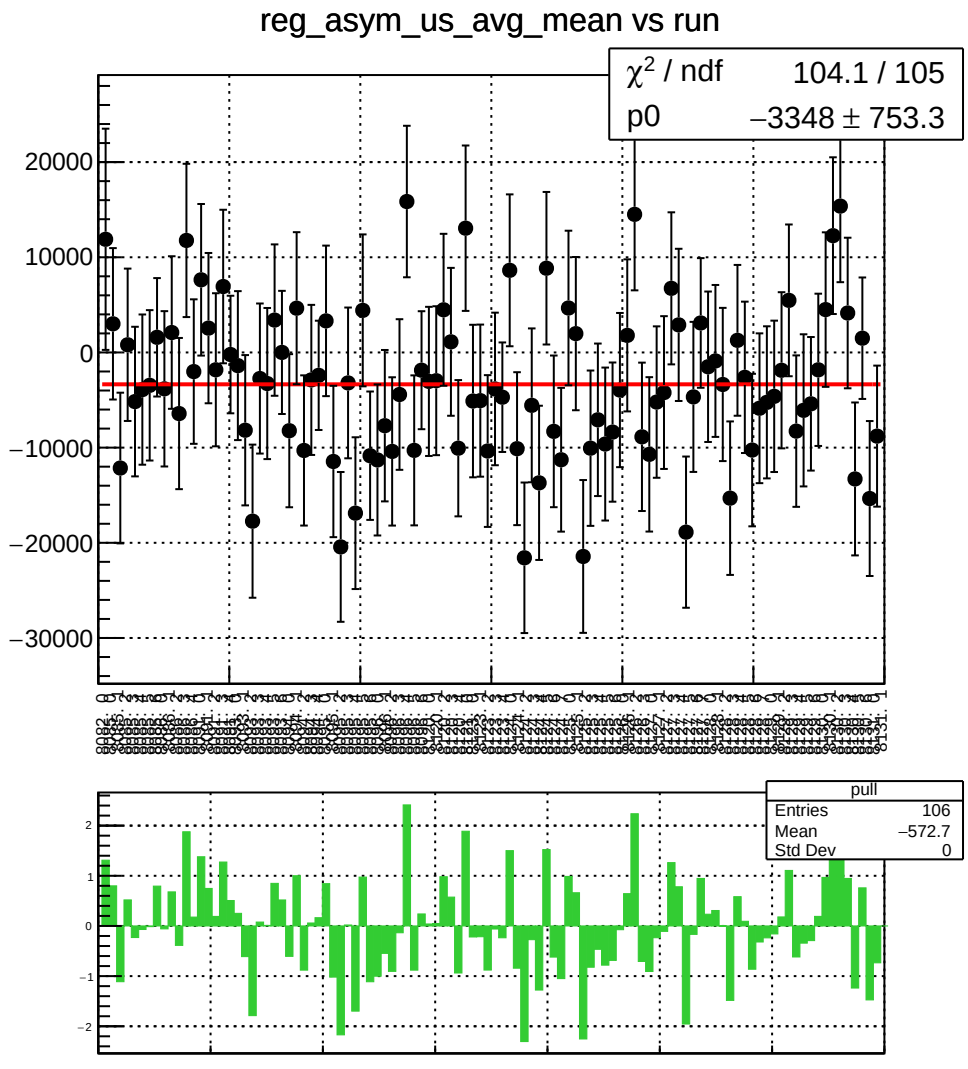
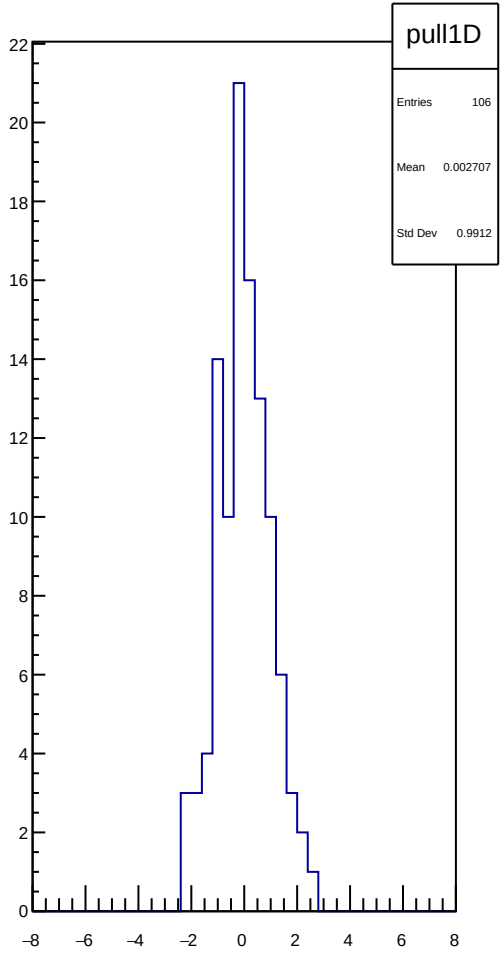
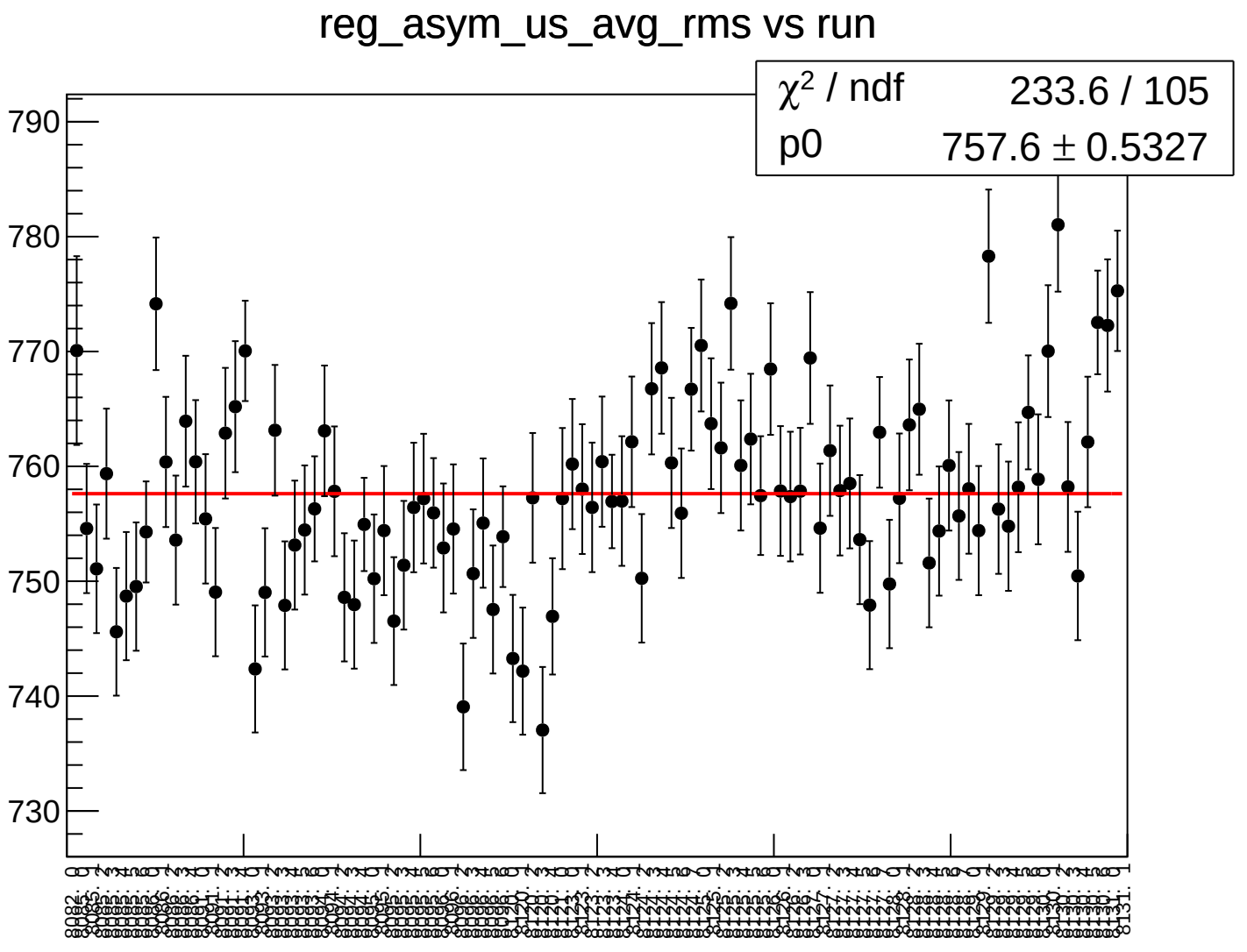
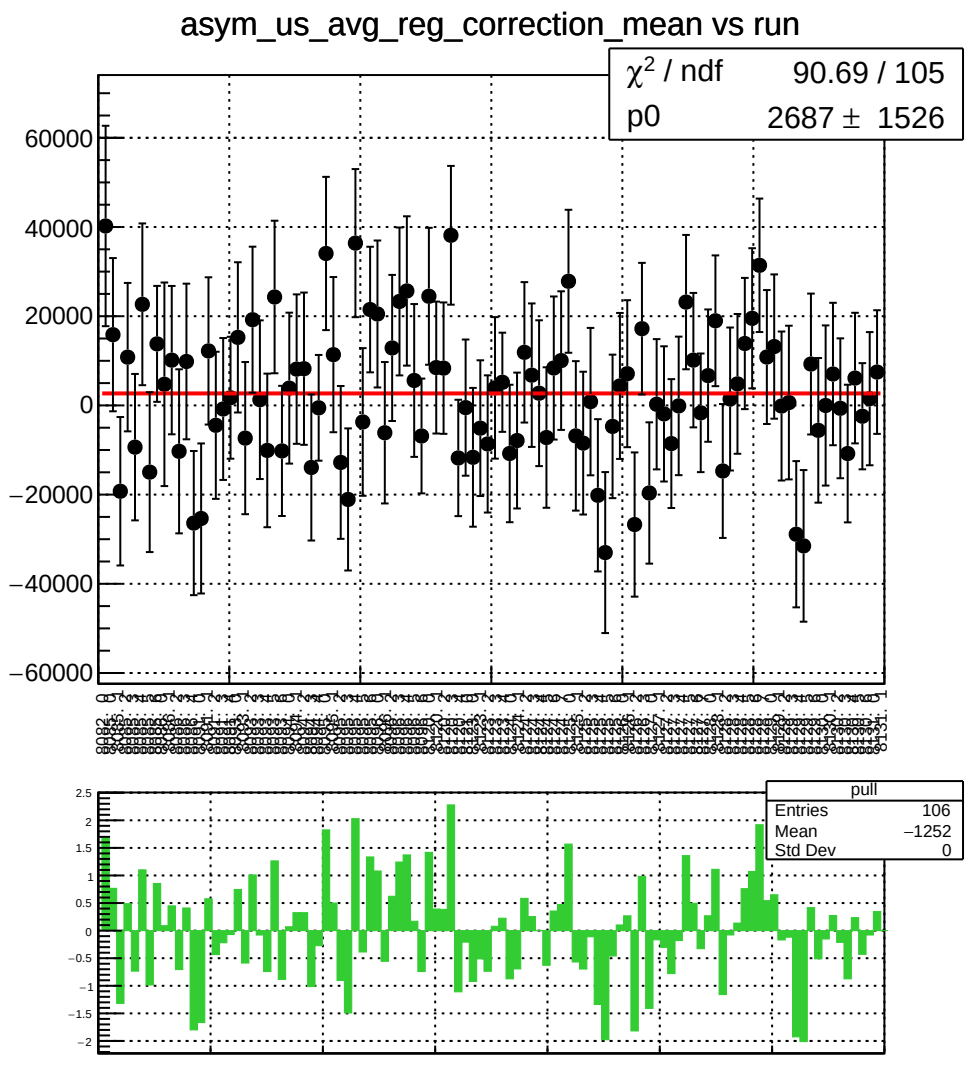
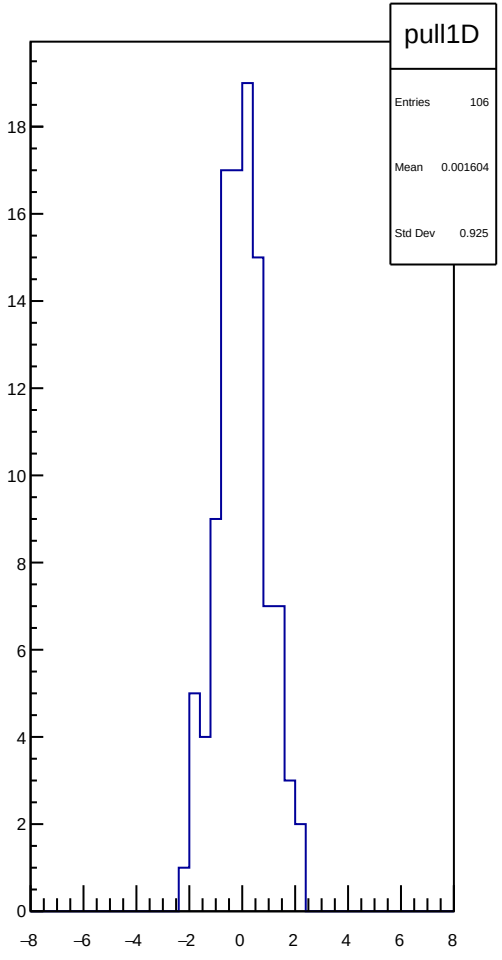
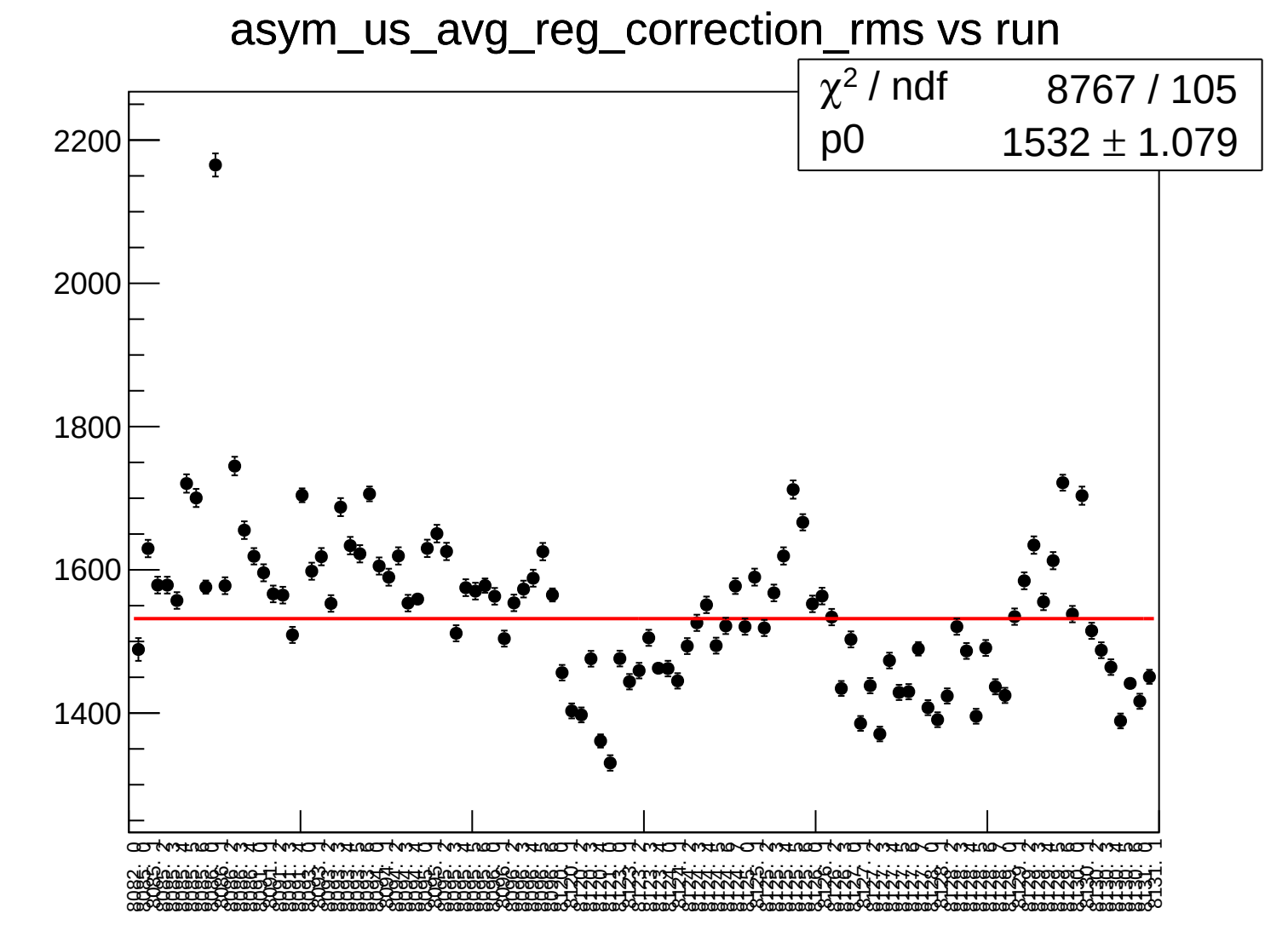

reg_asym_us_avg_mean vs run
χ² / ndf 104.1 / 105
p0 −3348 ± 753.3
20000
10000
0
−10000
−20000
−30000
pull
Entries 106
Mean −572.7
Std Dev 0
2
1
0
−1
−2

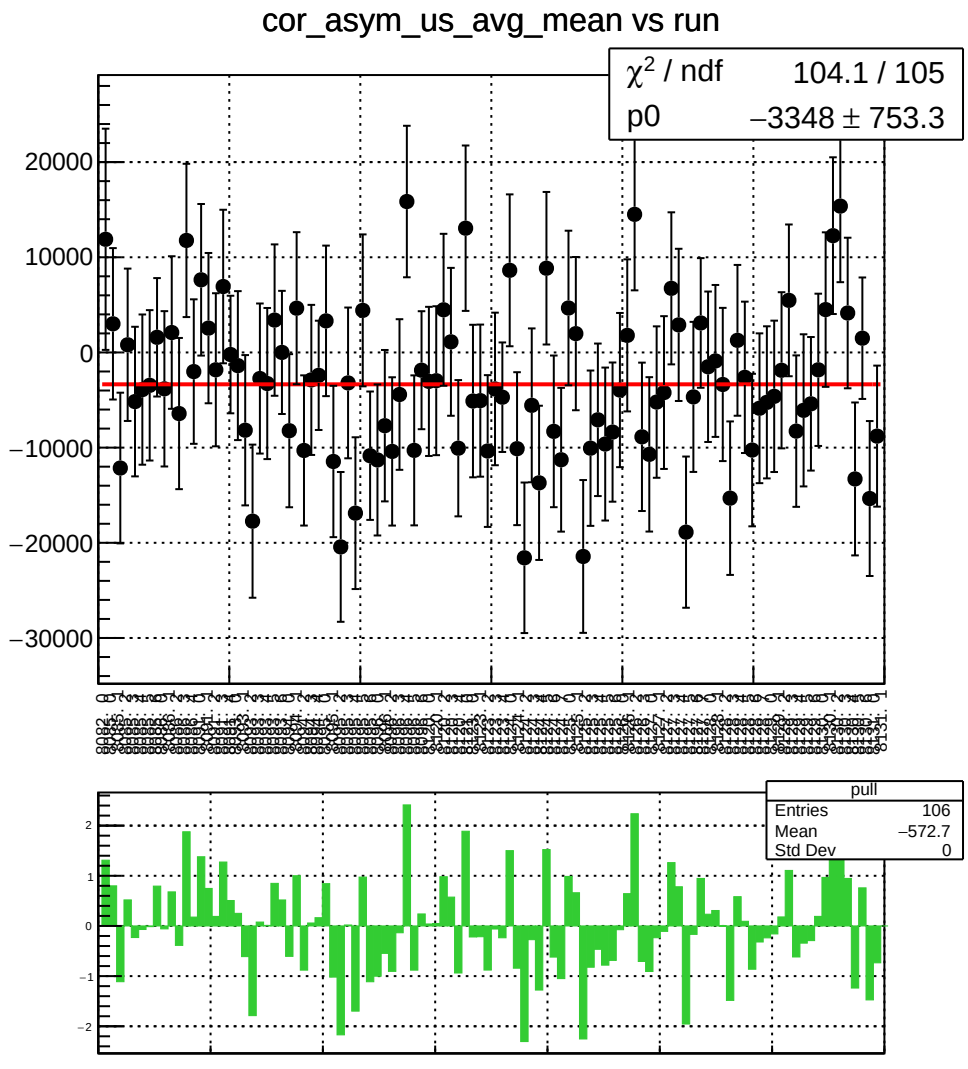

pull1D
Entries 106
Mean 0.002707
Std Dev 0.9912
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

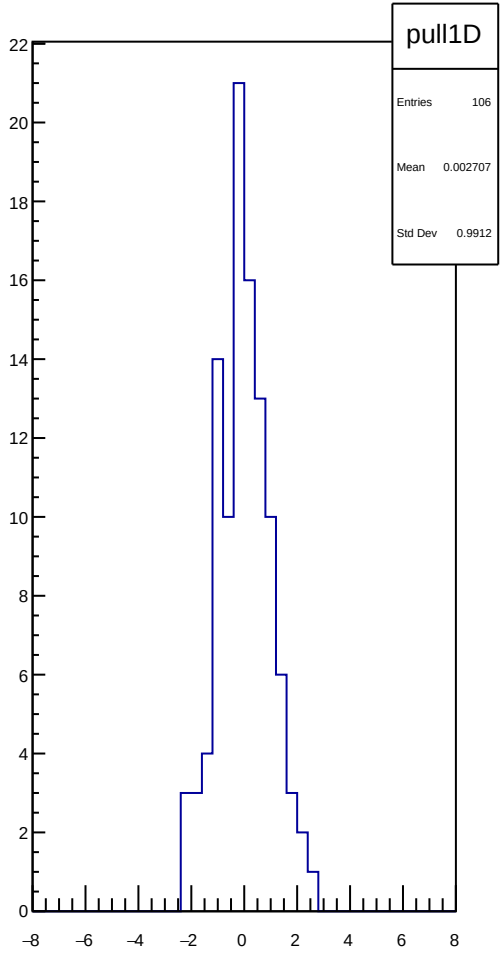

reg_asym_us_avg_rms vs run
$\chi^2$ / ndf 233.6 / 105
p0 757.6 ± 0.5327
790
780
770
760
750
740
730

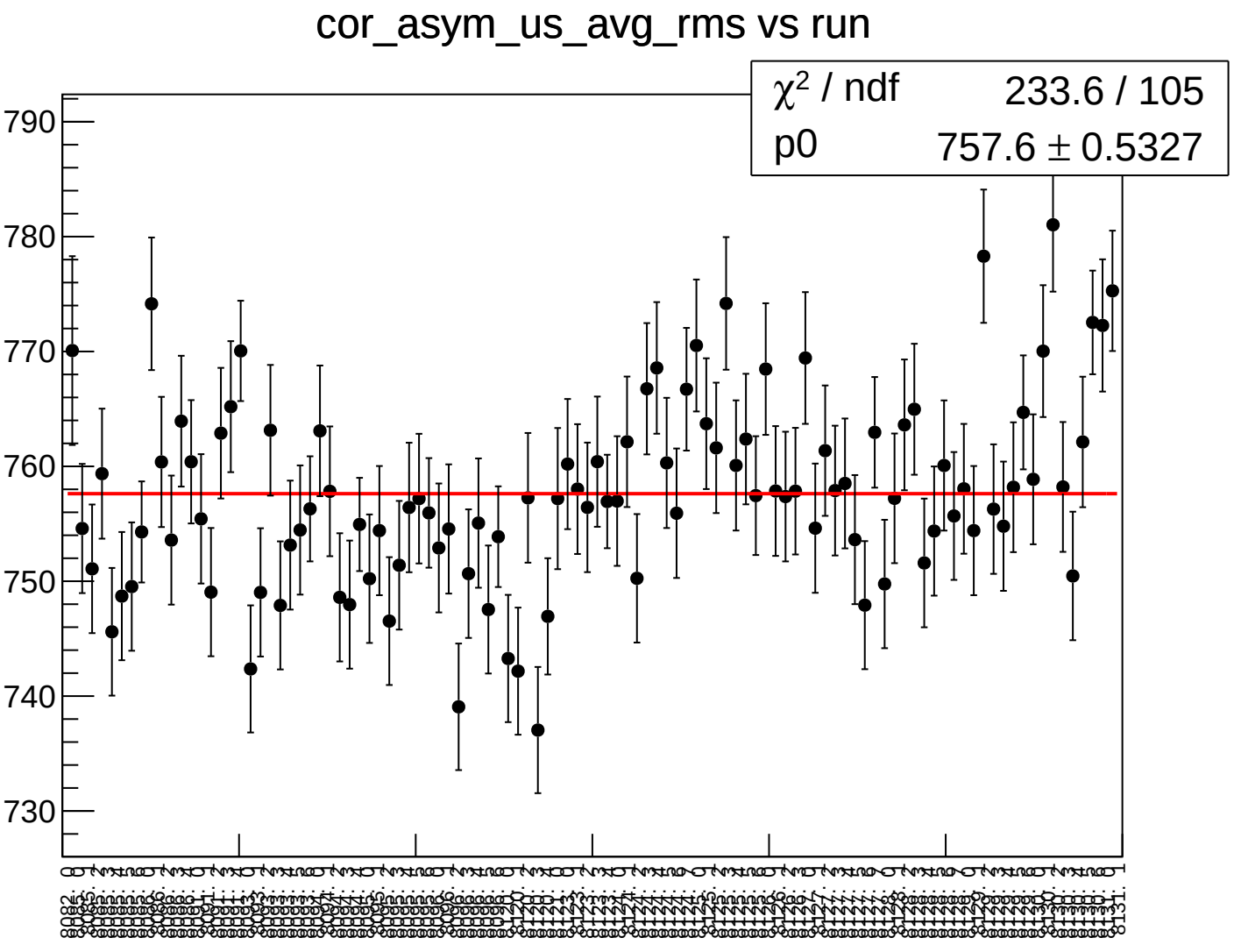

asym_us_avg_reg_correction_mean vs run
χ² / ndf 90.69 / 105
p0 2687 ± 1526
pull
Entries 106
Mean −1252
Std Dev 0

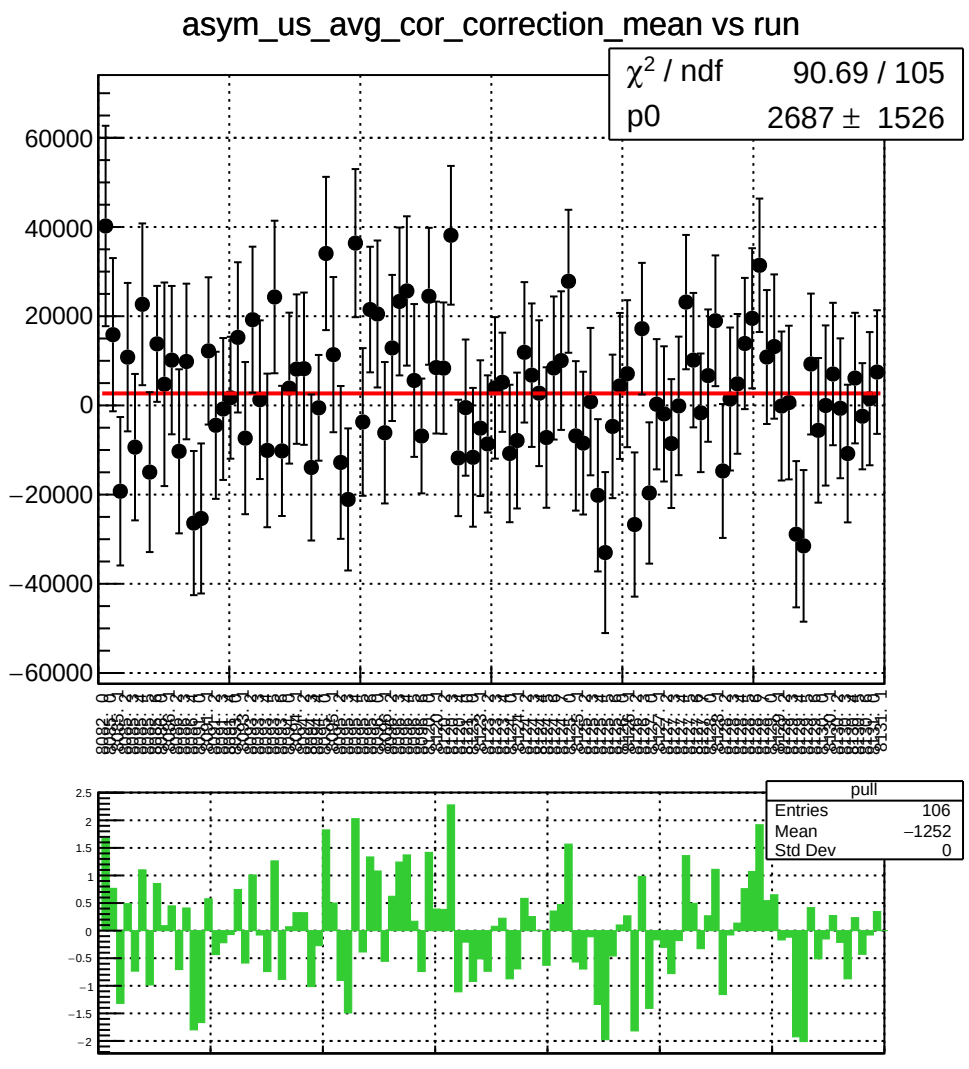

pull1D
Entries 106
Mean 0.001604
Std Dev 0.925

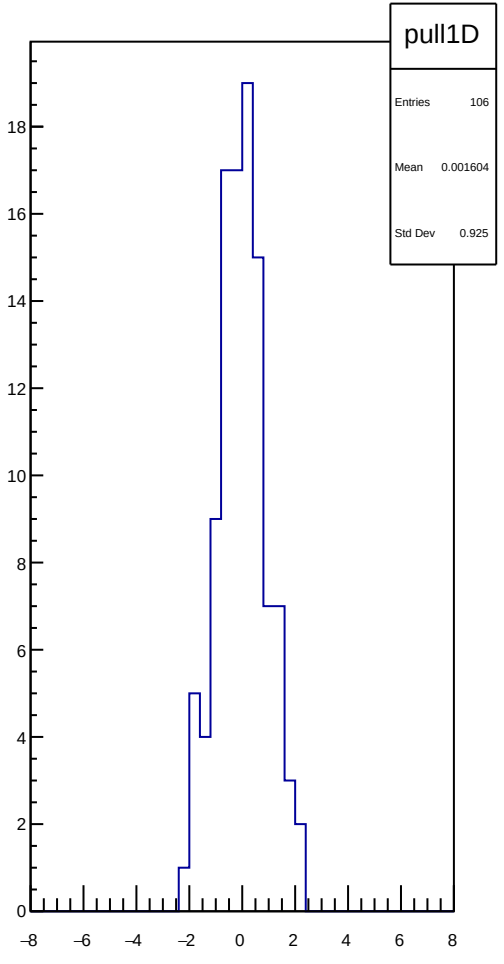

asym_us_avg_reg_correction_rms vs run
$\chi^2$ / ndf 8767 / 105
p0 1532 ± 1.079
2200
2000
1800
1600
1400


cor_asym_us_avg_mean vs run
χ² / ndf 104.1 / 105
p0 −3348 ± 753.3
20000
10000
0
−10000
−20000
−30000
pull
Entries 106
Mean −572.7
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 106
Mean 0.002707
Std Dev 0.9912
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_us_avg_rms vs run
$\chi^2$ / ndf 233.6 / 105
p0 757.6 ± 0.5327
790
780
770
760
750
740
730


asym_us_avg_cor_correction_mean vs run
χ² / ndf 90.69 / 105
p0 2687 ± 1526
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean −1252
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 106
Mean 0.001604
Std Dev 0.925
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
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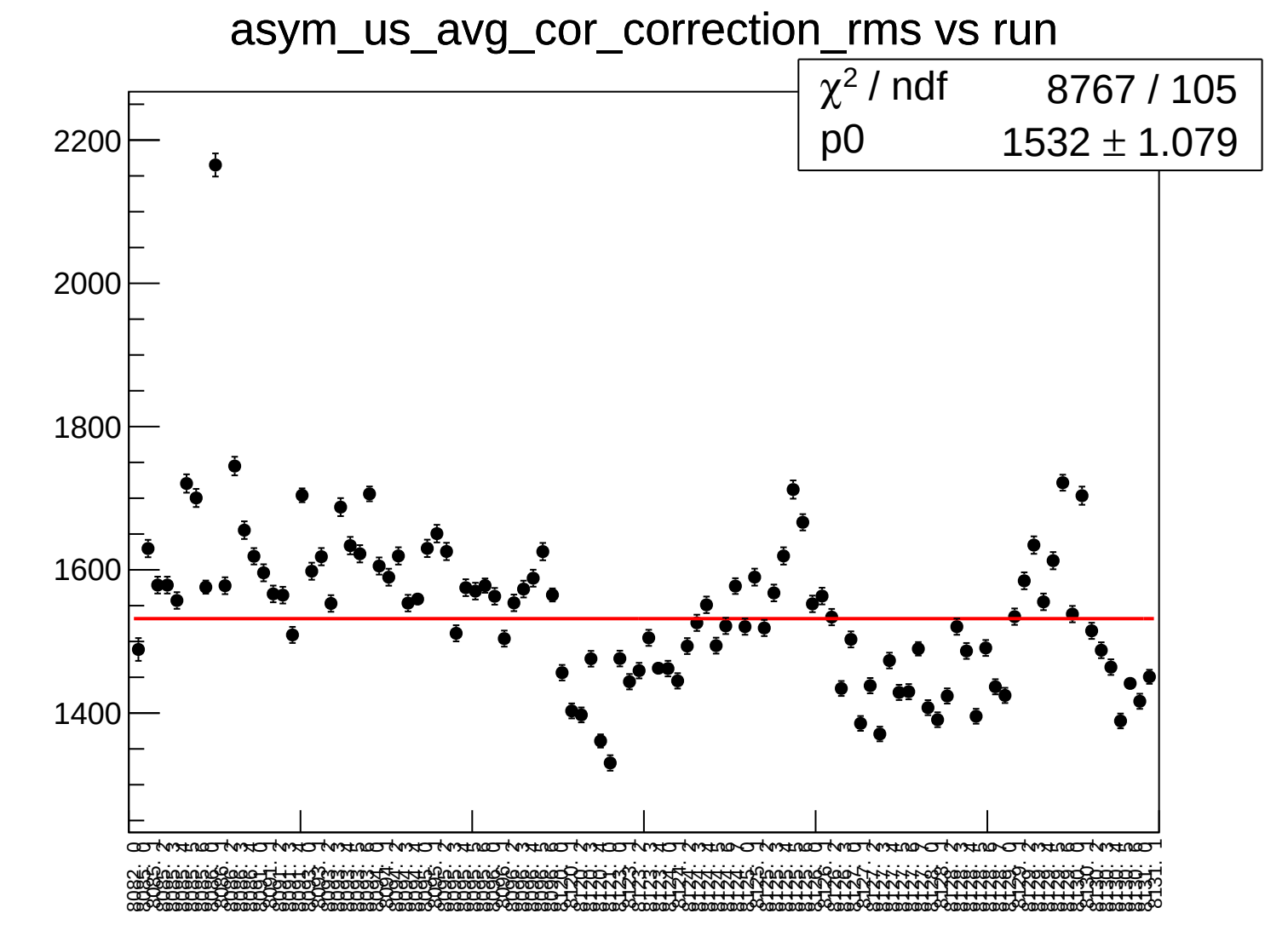
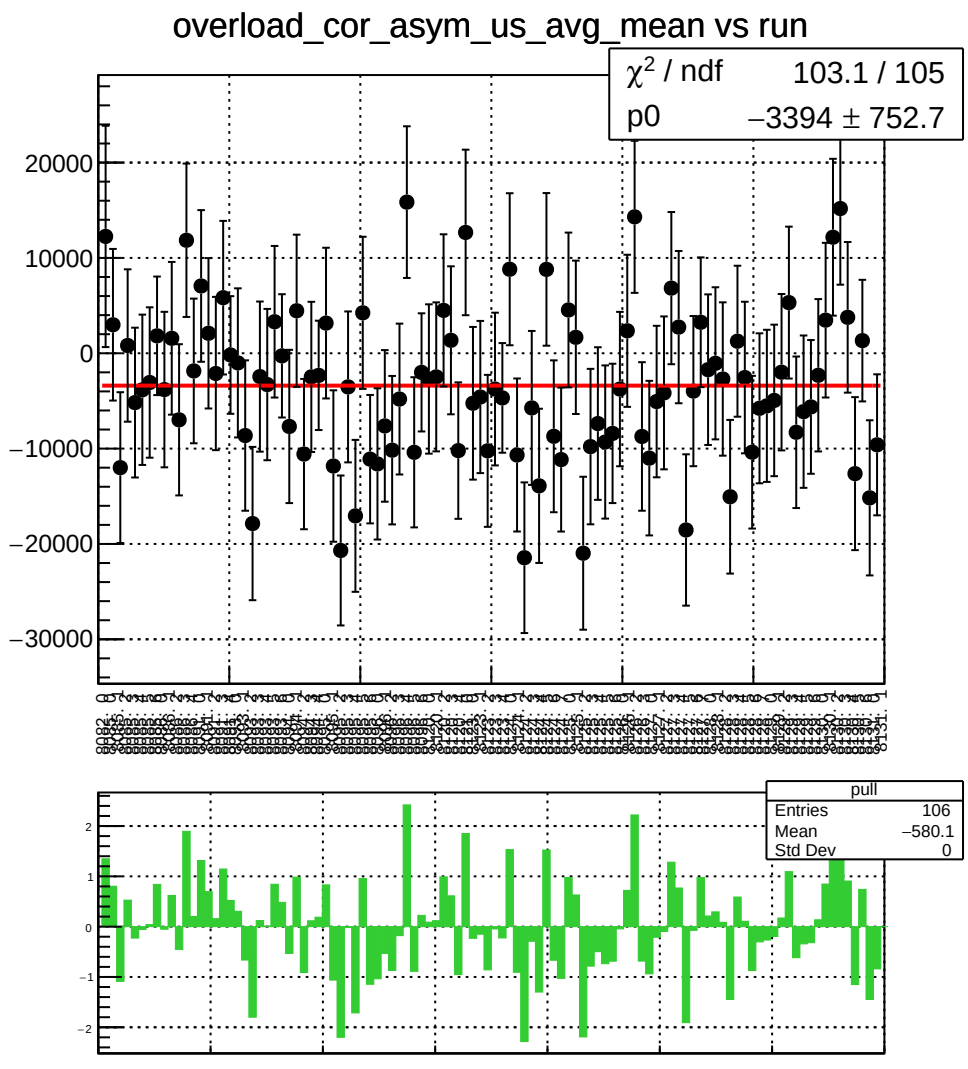
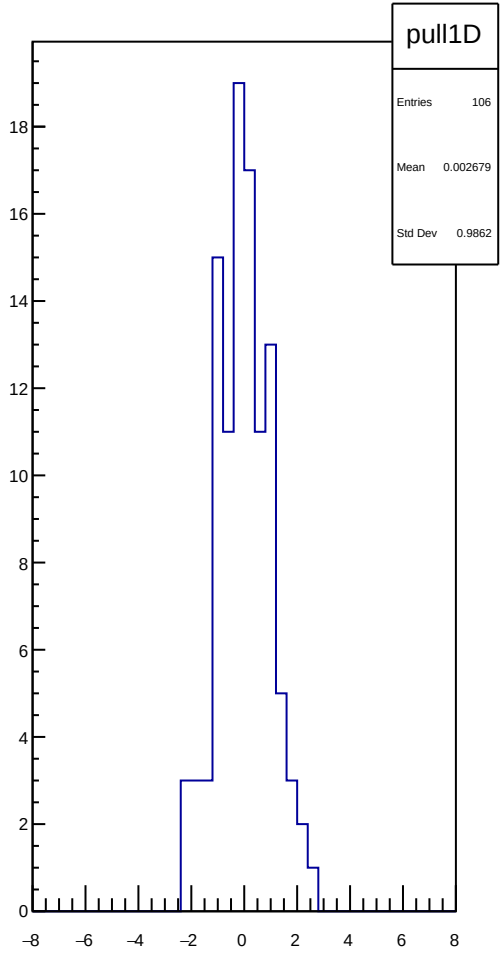
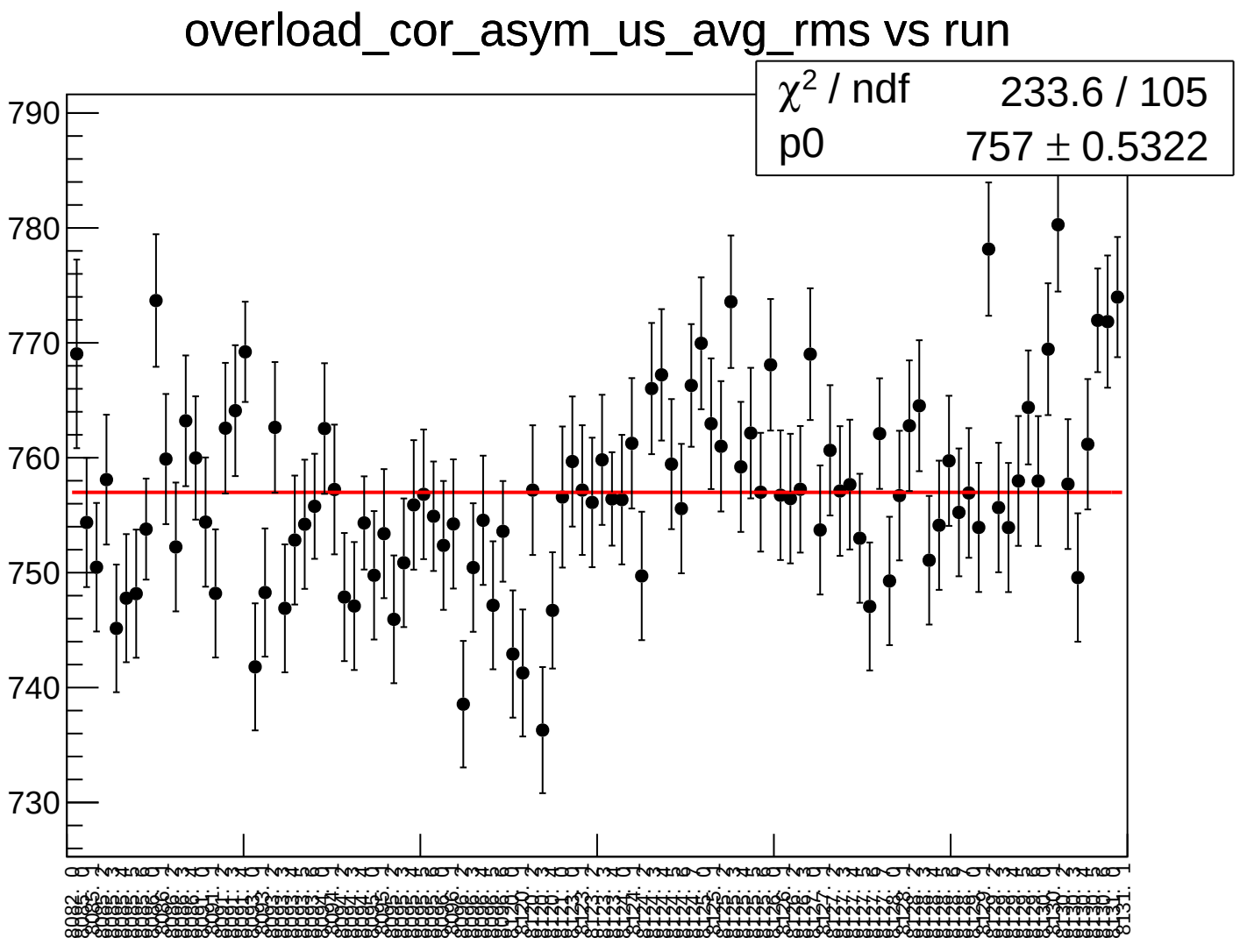
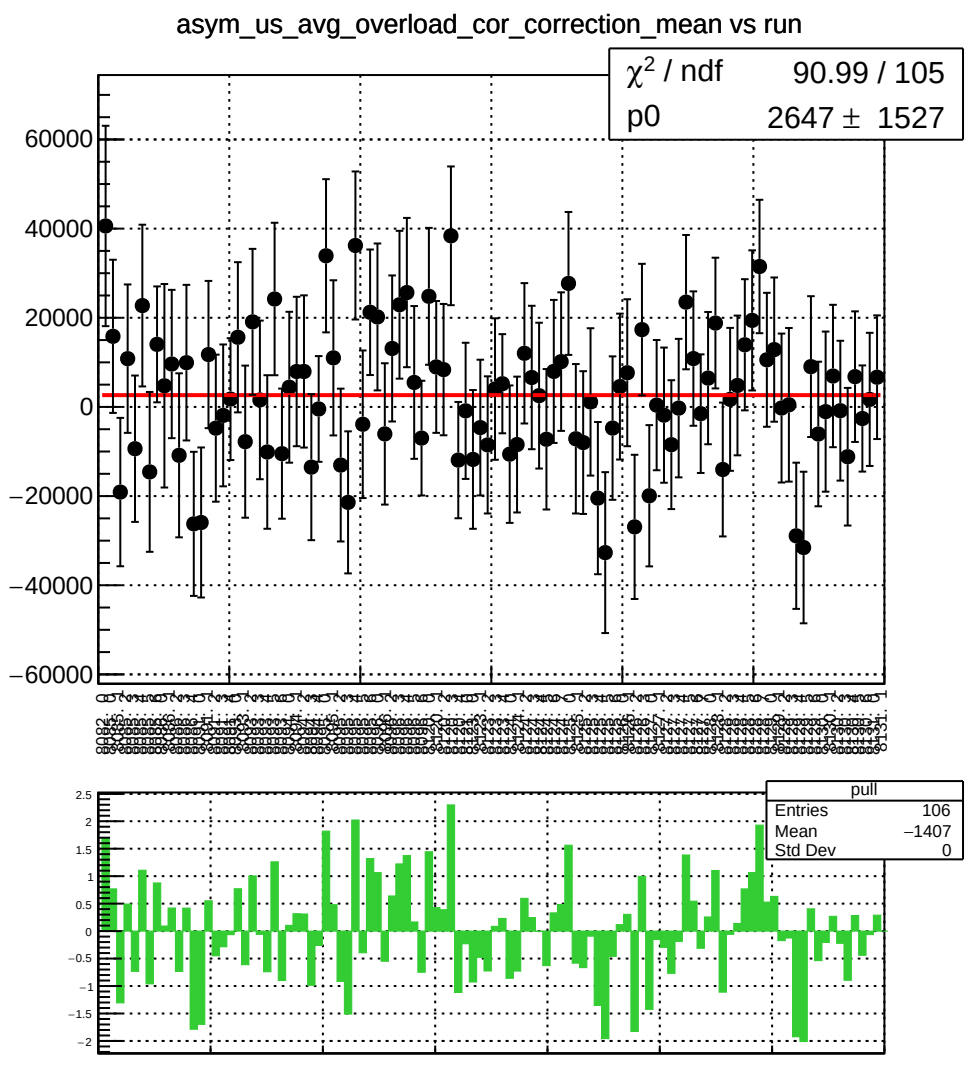
0
2
4
6
8

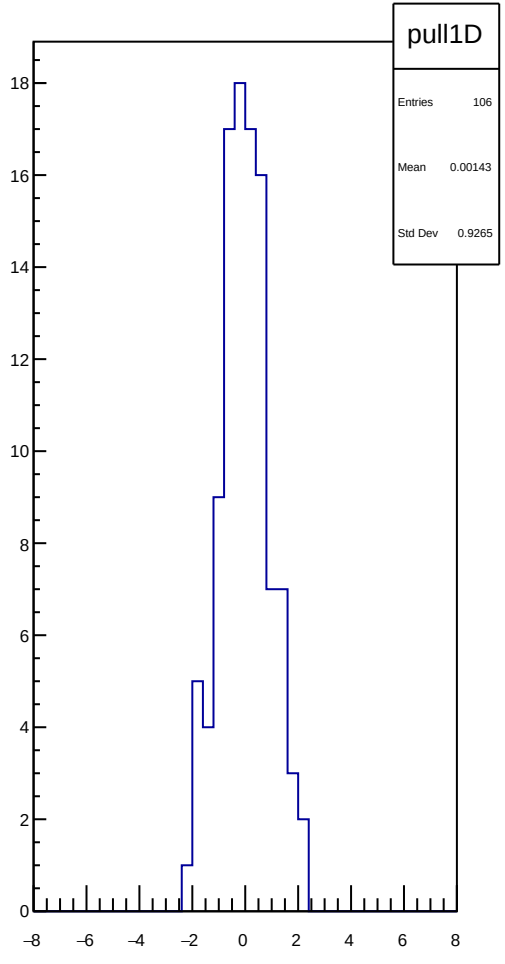

asym_us_avg_cor_correction_rms vs run
$\chi^2$ / ndf 8767 / 105
p0 1532 ± 1.079
2200
2000
1800
1600
1400

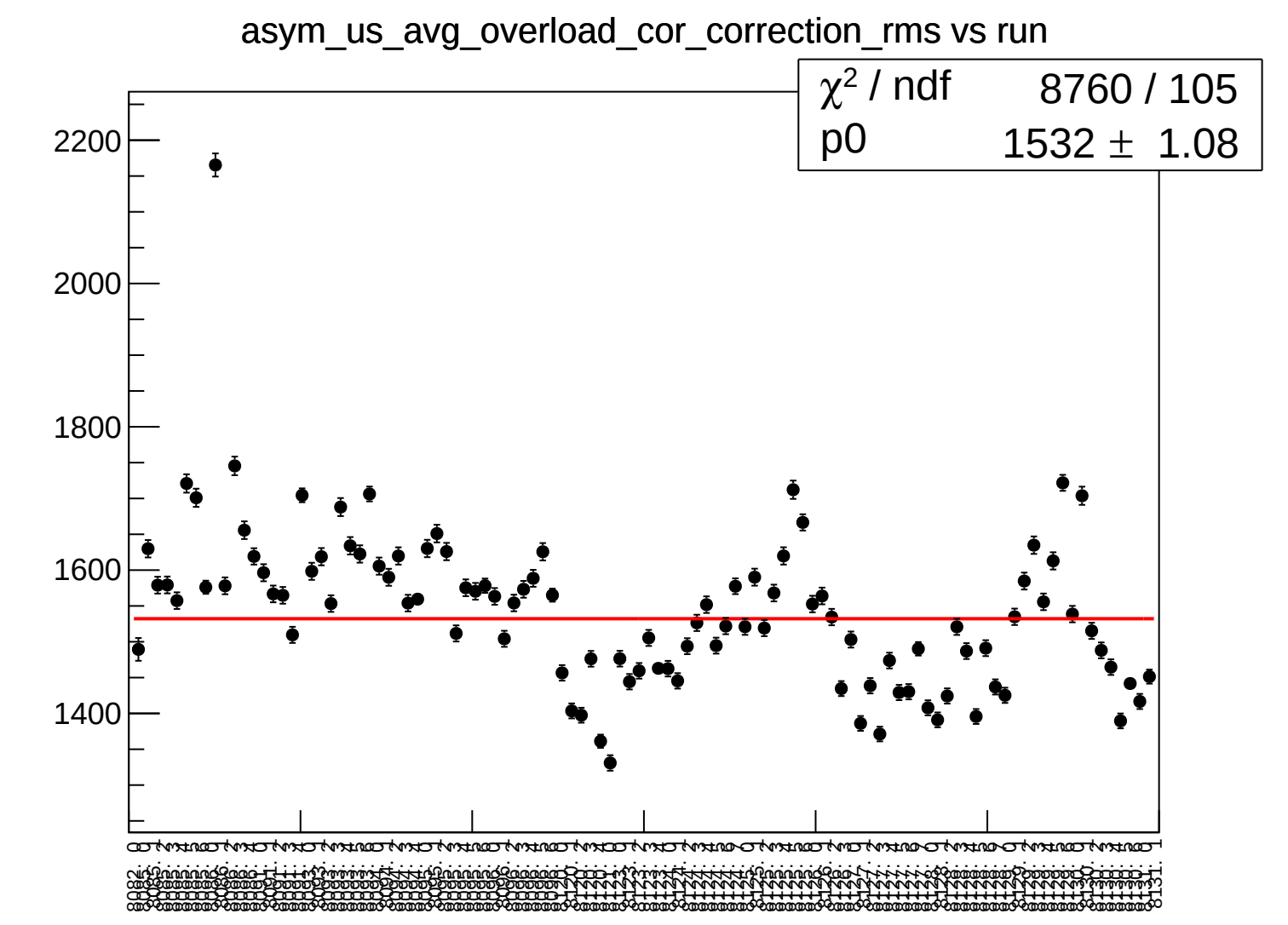

overload_cor_asym_us_avg_mean vs run
χ² / ndf 103.1 / 105
p0 −3394 ± 752.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 106
Mean −580.1
Std Dev 0
2
1
0
−1
−2

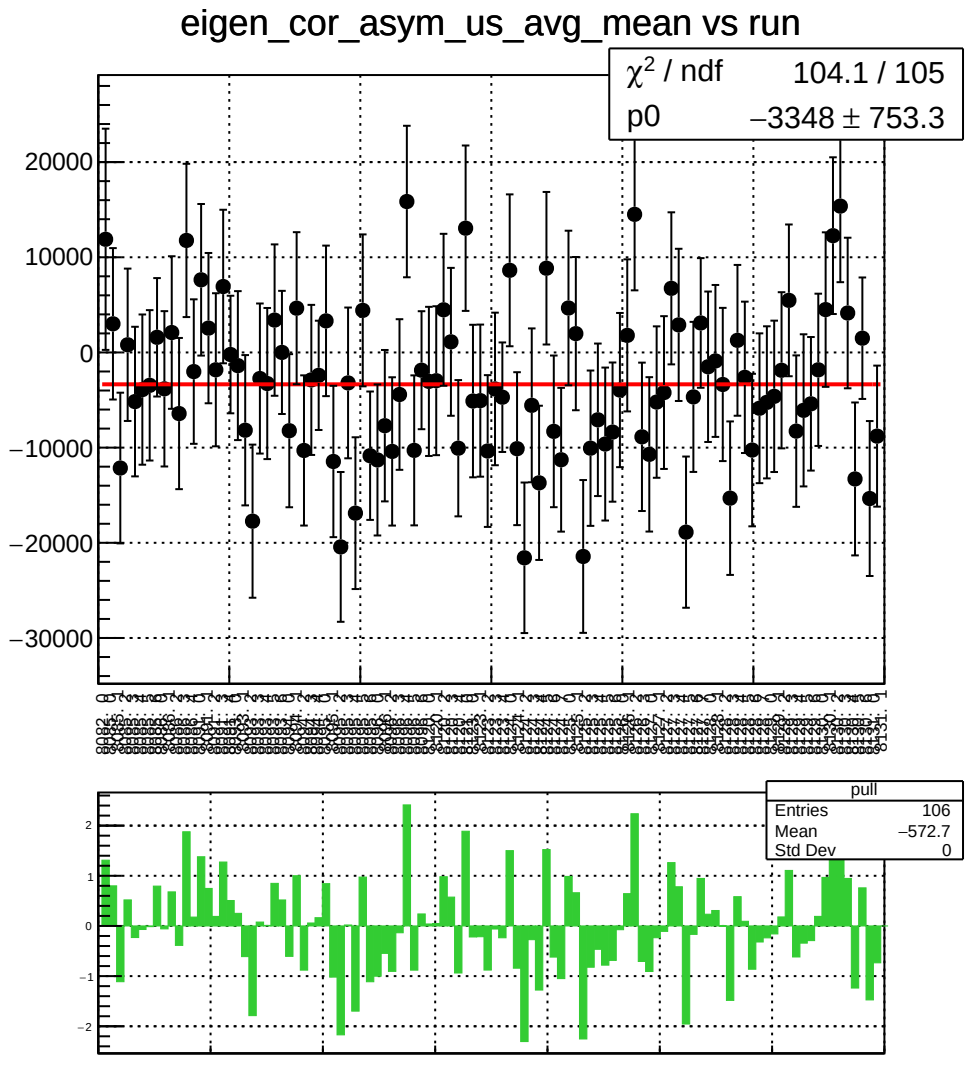

pull1D
Entries 106
Mean 0.002679
Std Dev 0.9862
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

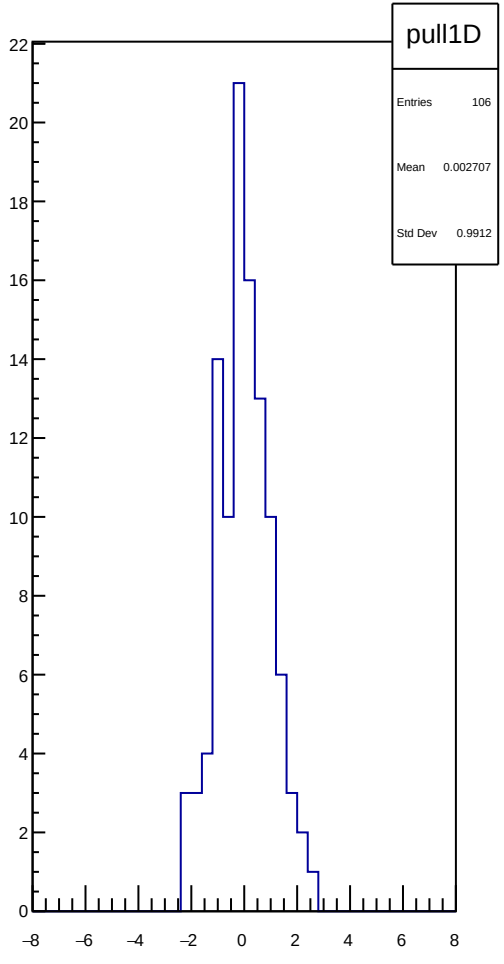

overload_cor_asym_us_avg_rms vs run
$\chi^2$ / ndf 233.6 / 105
p0 757 ± 0.5322
790
780
770
760
750
740
730

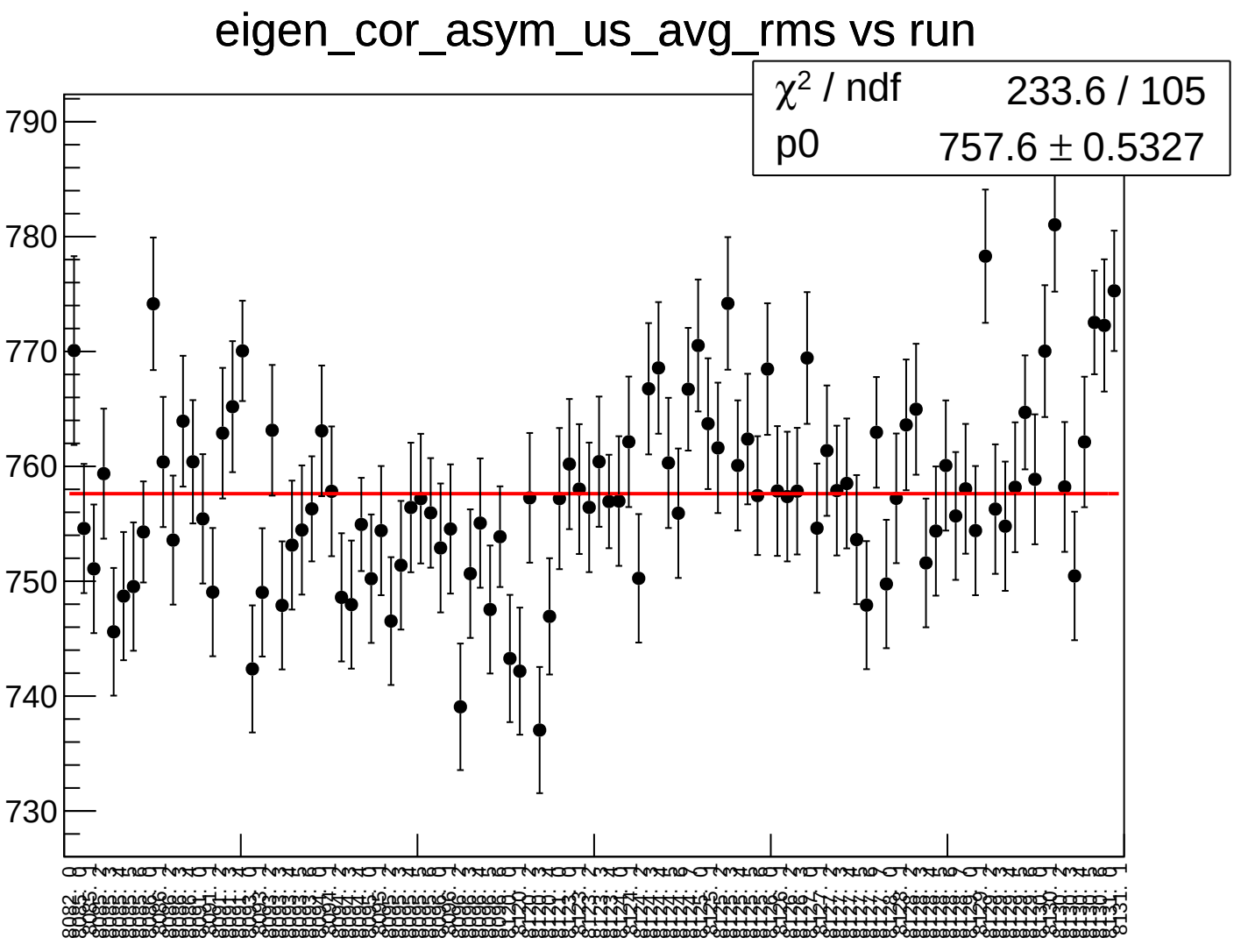

asym_us_avg_overload_cor_correction_mean vs run
χ² / ndf 90.99 / 105
p0 2647 ± 1527
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean −1407
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

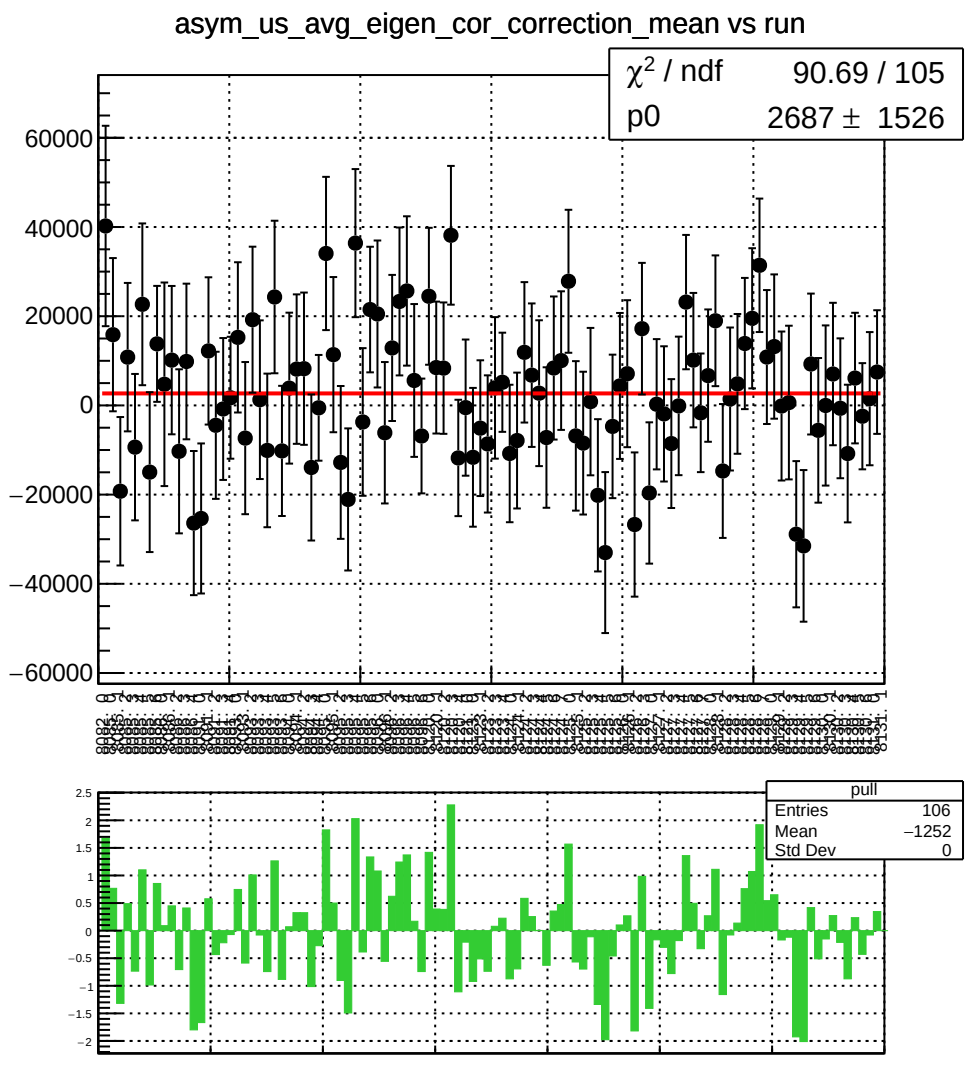

pull1D
Entries 106
Mean 0.00143
Std Dev 0.9265
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

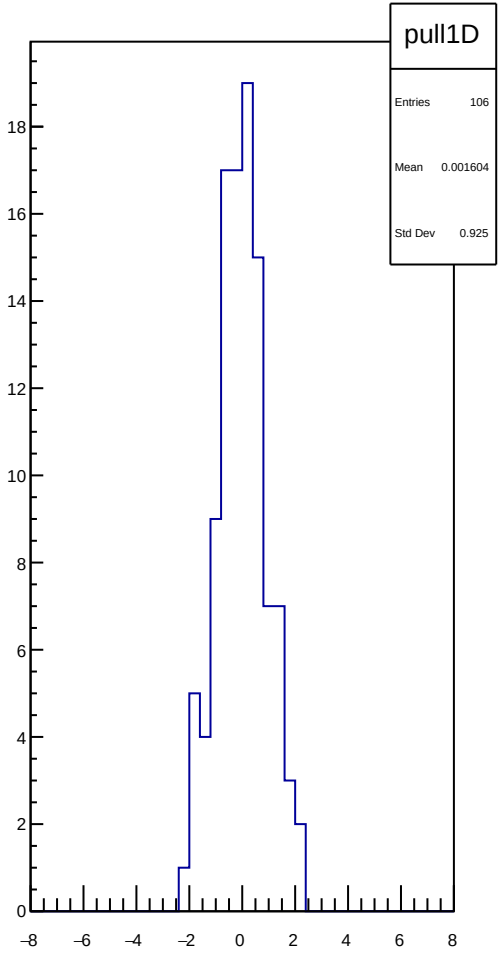

asym_us_avg_overload_cor_correction_rms vs run
χ² / ndf 8760 / 105
p0 1532 ± 1.08
2200
2000
1800
1600
1400

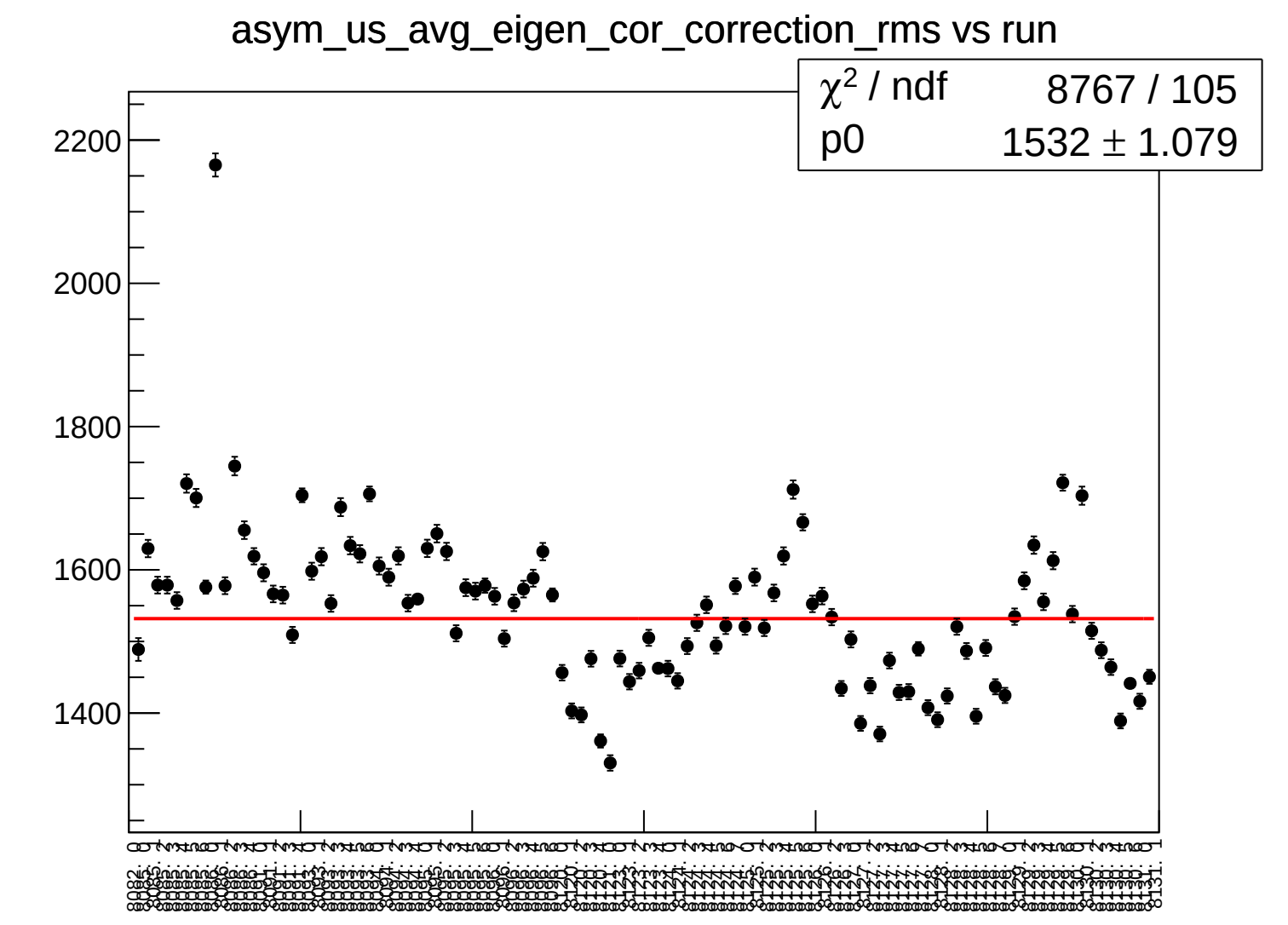

eigen_cor_asym_us_avg_mean vs run
χ² / ndf 104.1 / 105
p0 −3348 ± 753.3
20000
10000
0
−10000
−20000
−30000
pull
Entries 106
Mean −572.7
Std Dev 0
2
1
0
−1
−2

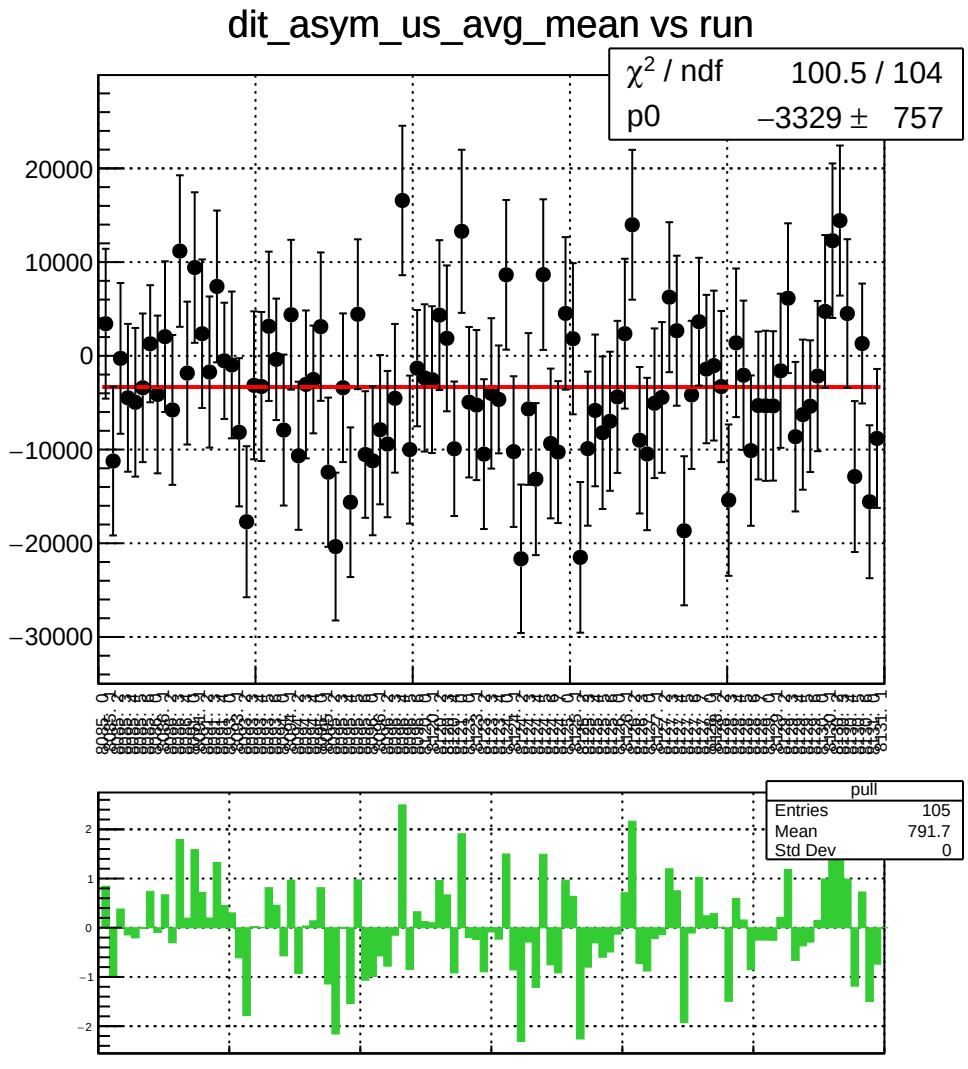

pull1D
Entries 106
Mean 0.002707
Std Dev 0.9912
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

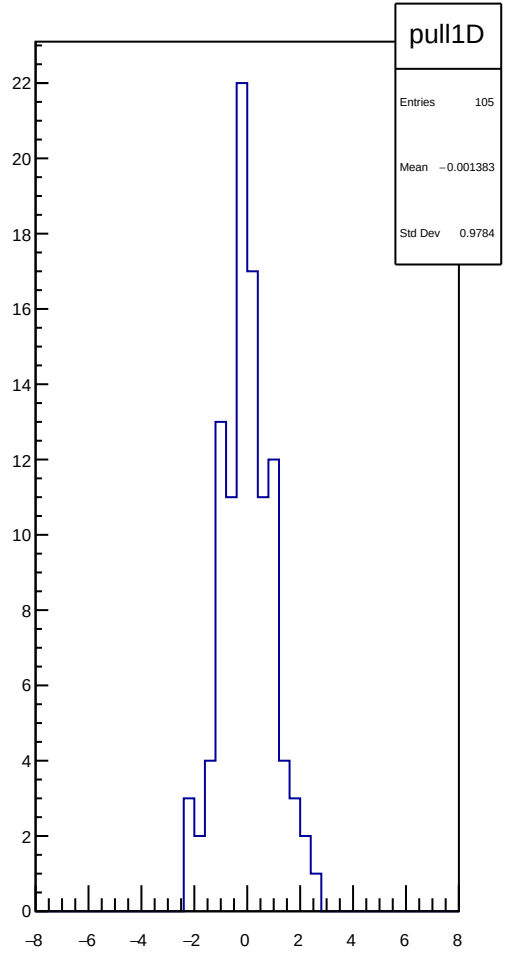

eigen_cor_asym_us_avg_rms vs run
χ² / ndf 233.6 / 105
p0 757.6 ± 0.5327
790
780
770
760
750
740
730

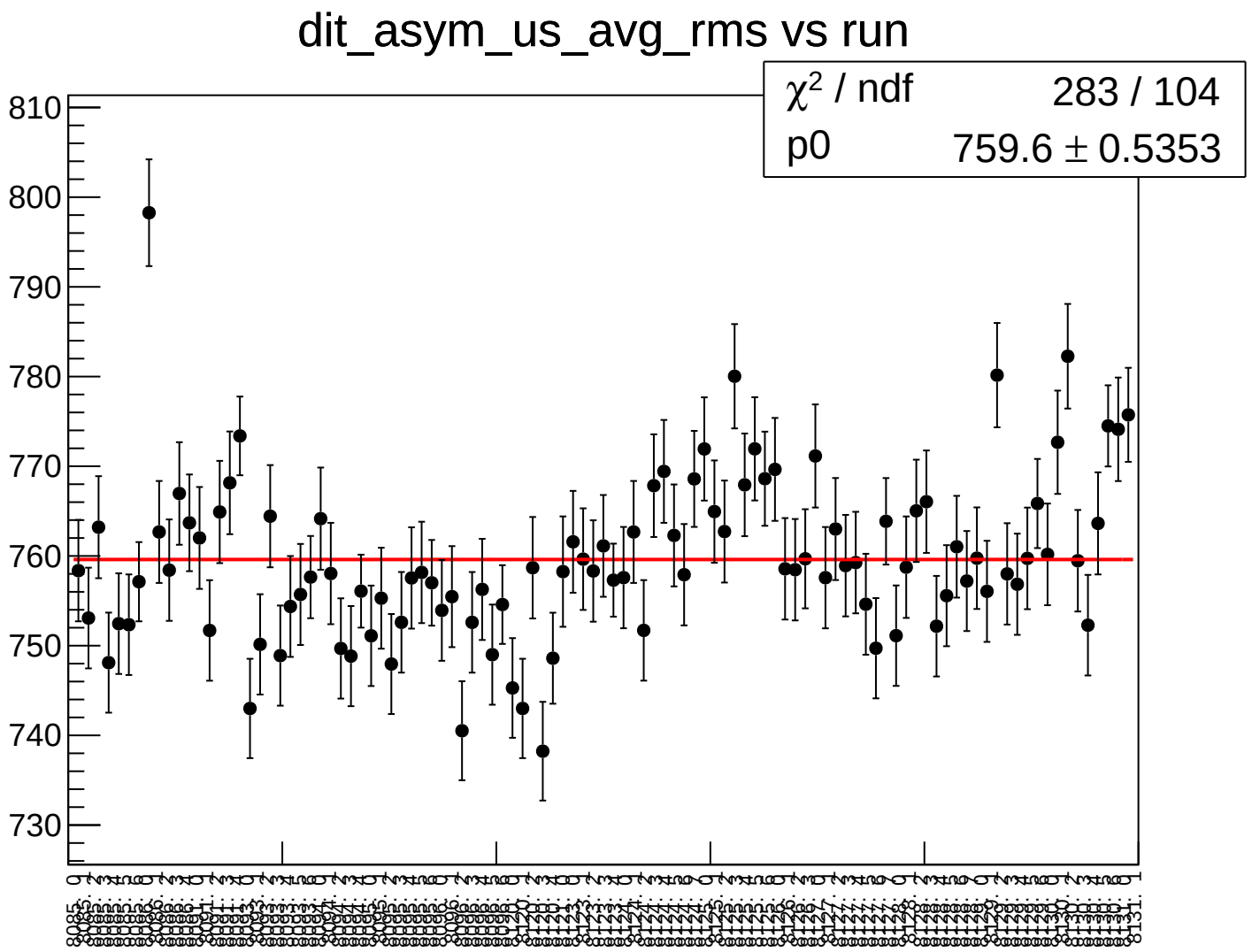

asym_us_avg_eigen_cor_correction_mean vs run
χ² / ndf 90.69 / 105
p0 2687 ± 1526
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean −1252
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

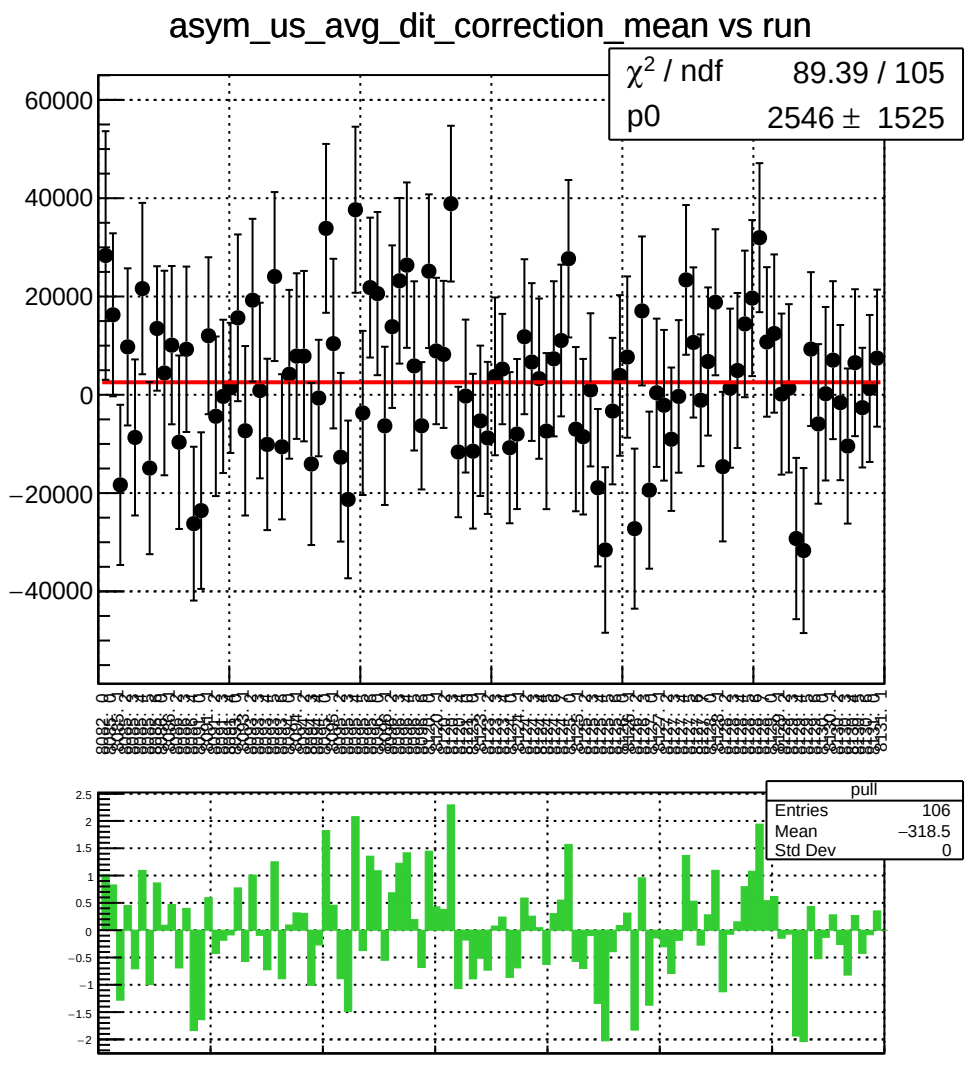

pull1D
Entries 106
Mean 0.001604
Std Dev 0.925
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

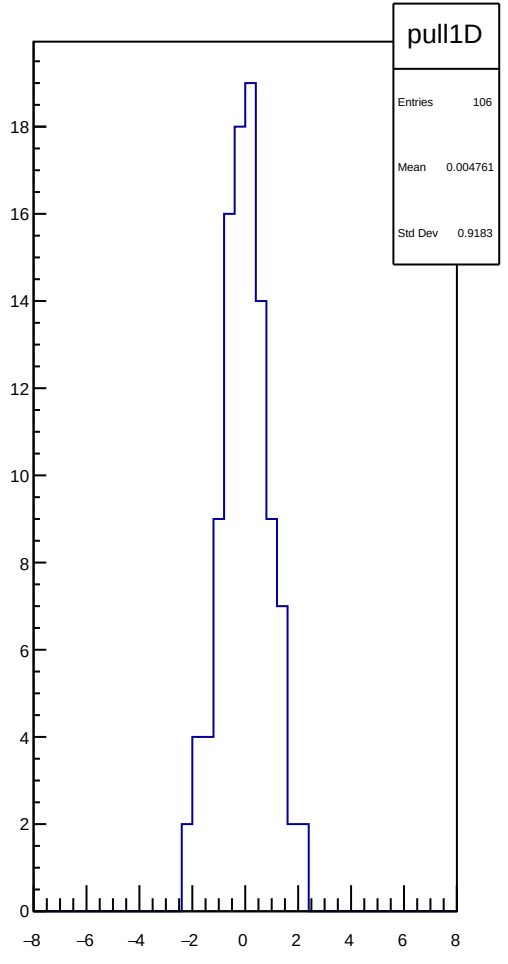

asym_us_avg_eigen_cor_correction_rms vs run
$\chi^2$ / ndf 8767 / 105
p0 1532 ± 1.079
2200
2000
1800
1600
1400

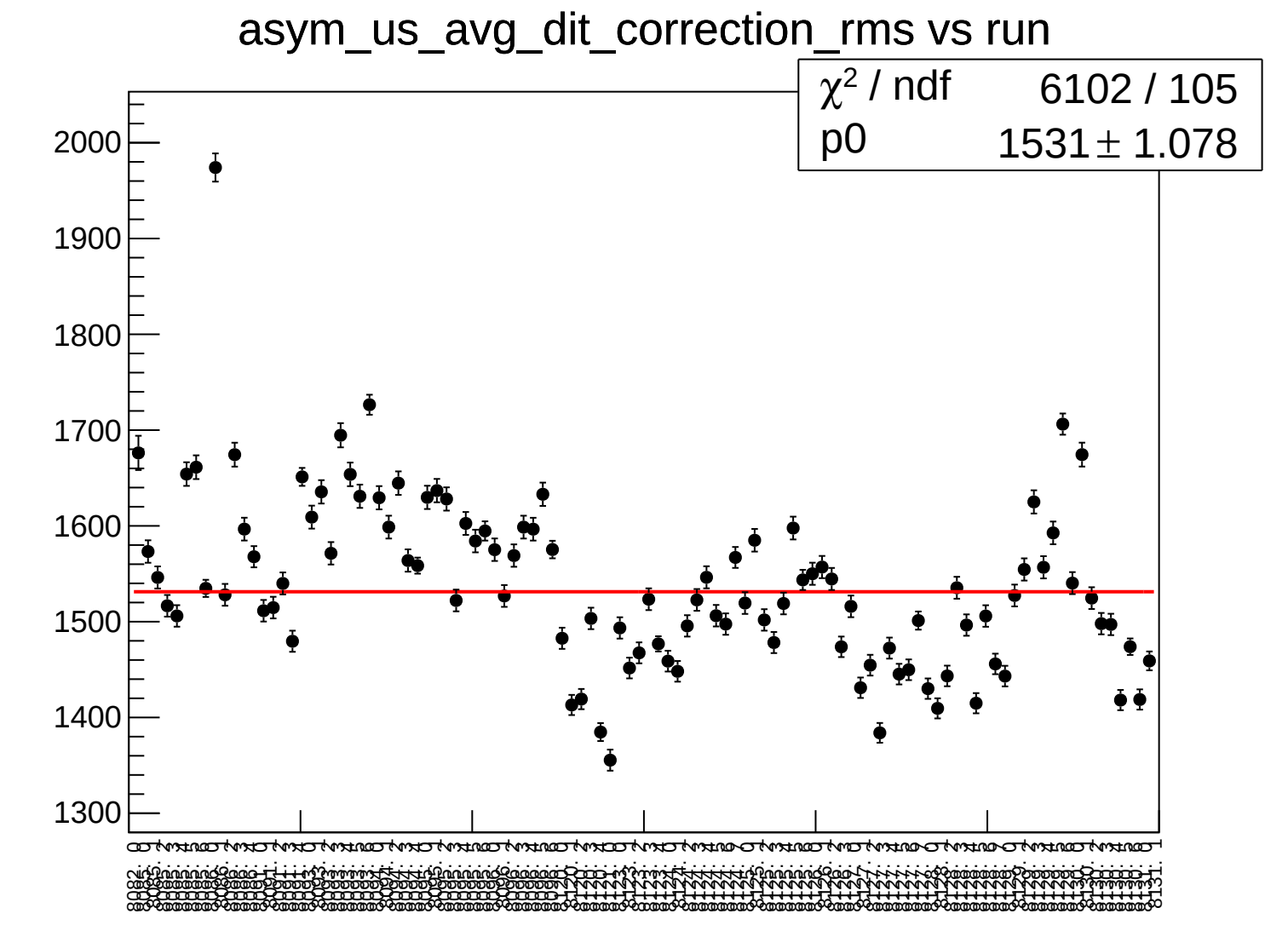

dit_asym_us_avg_mean vs run
χ² / ndf 100.5 / 104
p0 −3329 ± 757
20000
10000
0
−10000
−20000
−30000
pull
Entries 105
Mean 791.7
Std Dev 0
2
1
0
−1
−2

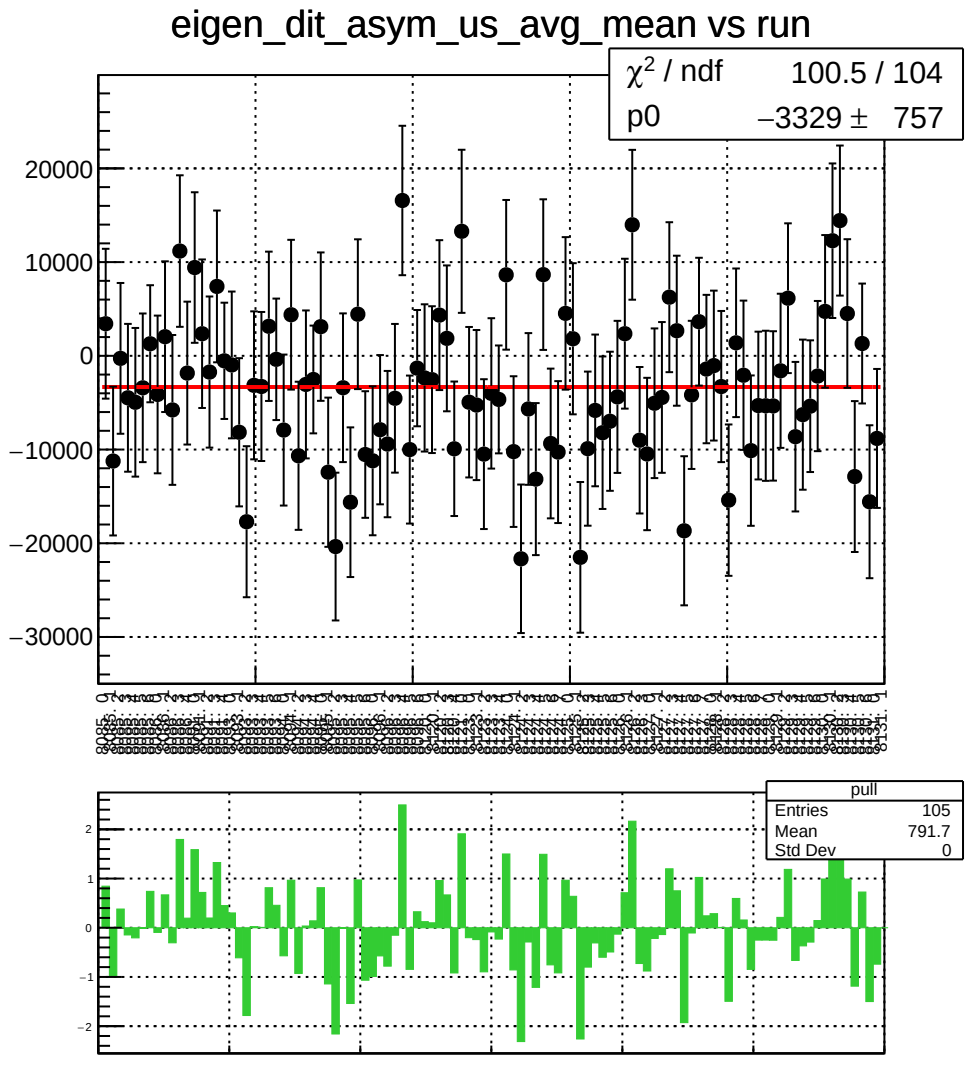

pull1D
Entries 105
Mean −0.001383
Std Dev 0.9784
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

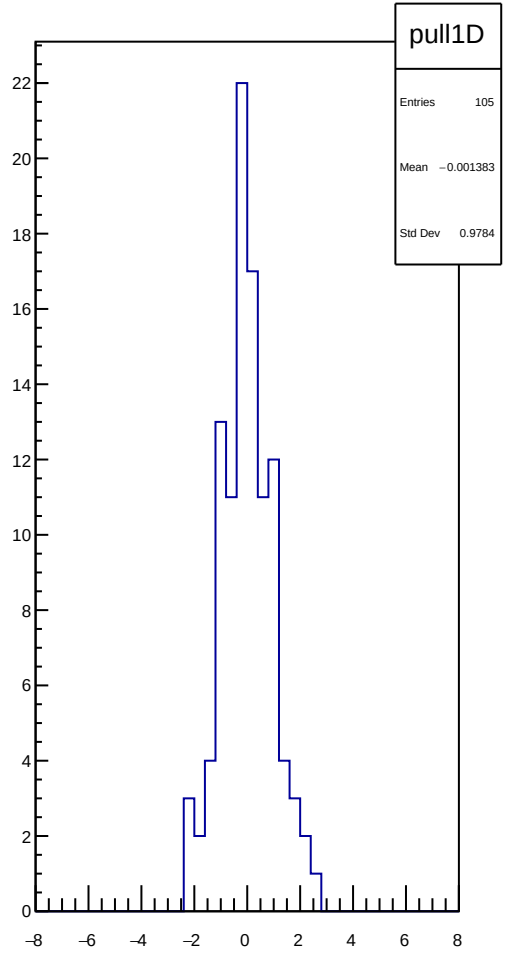

dit_asym_us_avg_rms vs run
$\chi^2$ / ndf 283 / 104
p0 759.6 ± 0.5353
810
800
790
780
770
760
750
740
730

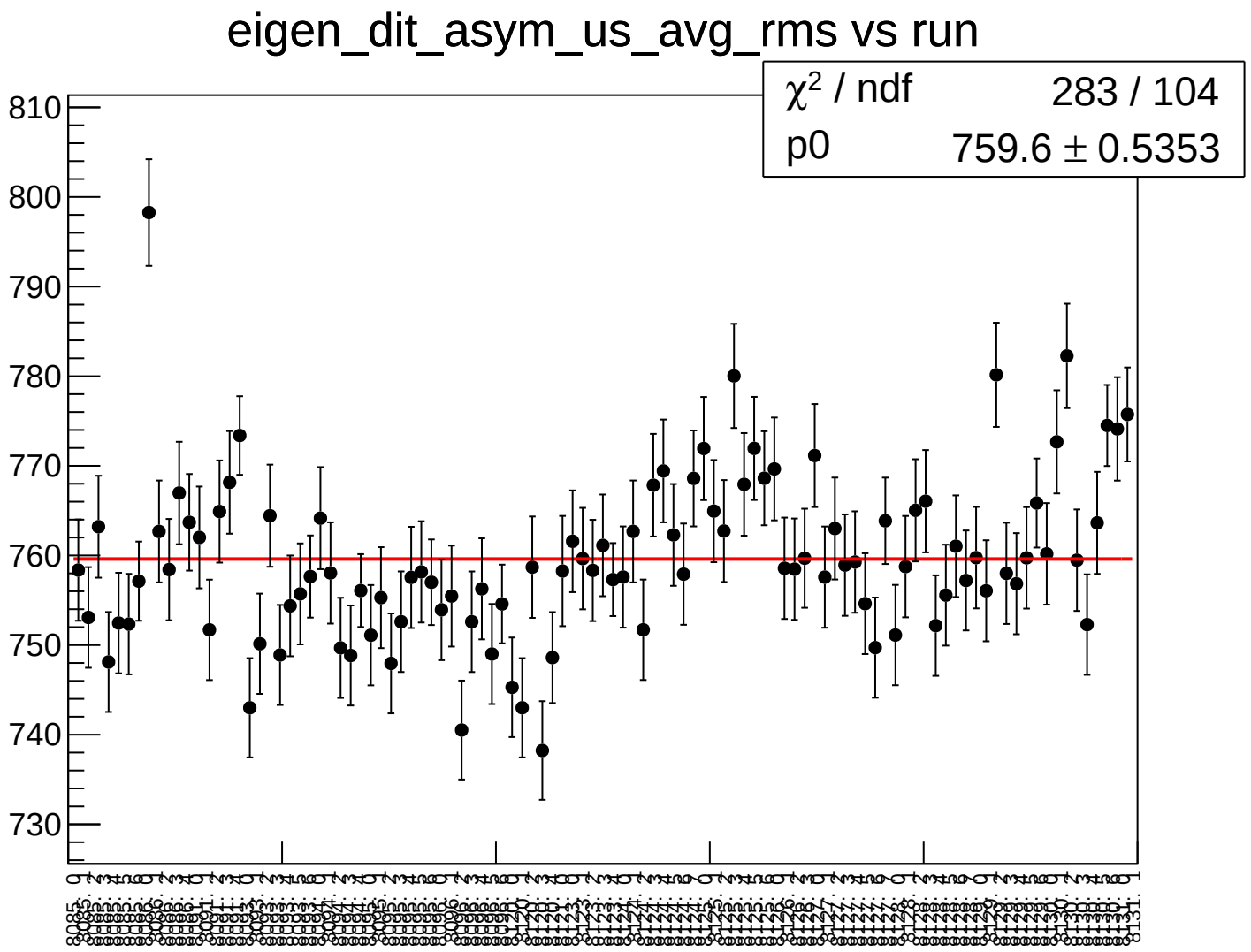

asym_us_avg_dit_correction_mean vs run
χ² / ndf 89.39 / 105
p0 2546 ± 1525
60000
40000
20000
0
−20000
−40000
pull
Entries 106
Mean −318.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

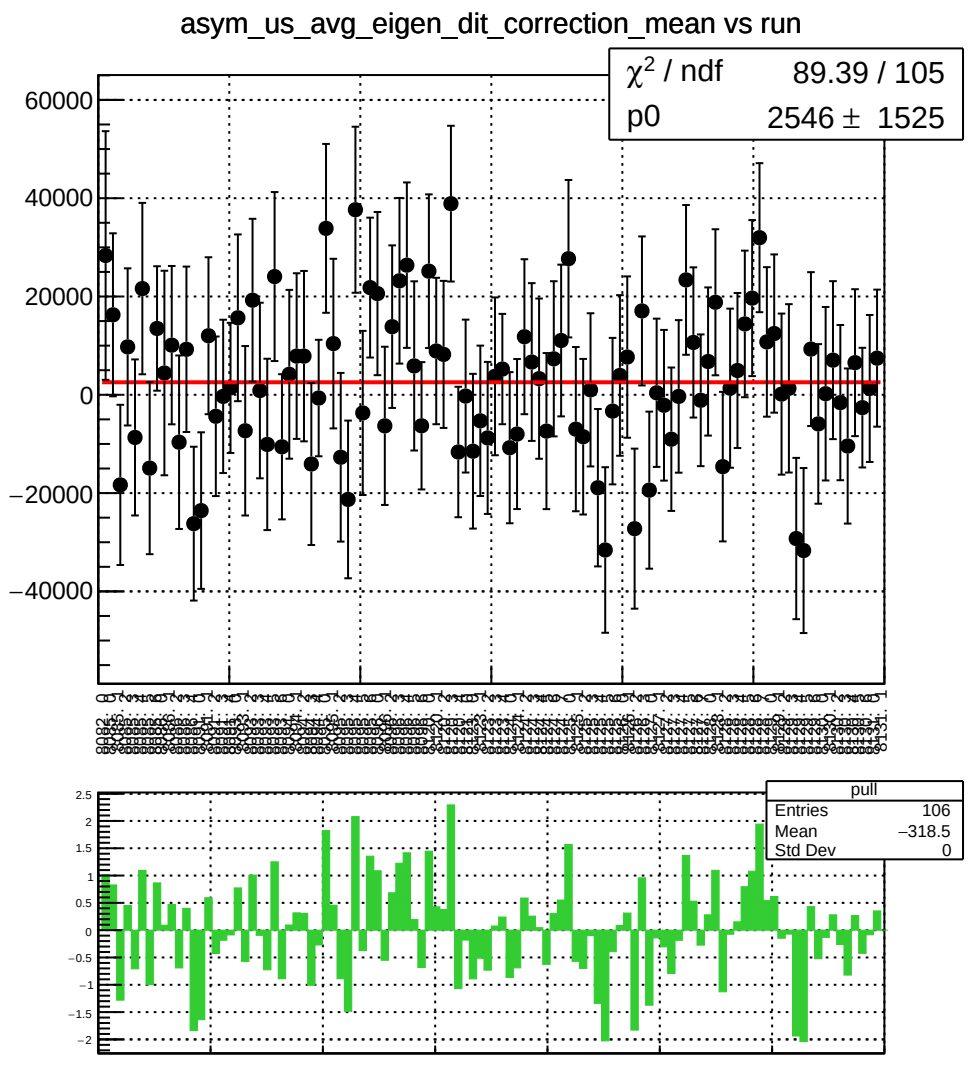

pull1D
Entries 106
Mean 0.004761
Std Dev 0.9183
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

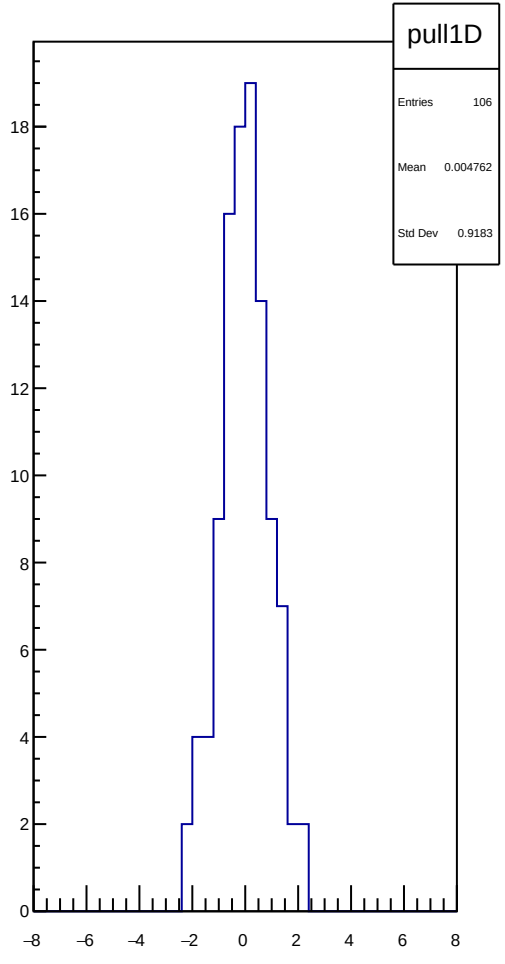

asym_us_avg_dit_correction_rms vs run
χ² / ndf 6102 / 105
p0 1531 ± 1.078
2000
1900
1800
1700
1600
1500
1400
1300


eigen_dit_asym_us_avg_mean vs run
χ² / ndf 100.5 / 104
p0 −3329 ± 757
20000
10000
0
−10000
−20000
−30000
pull
Entries 105
Mean 791.7
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 105
Mean −0.001383
Std Dev 0.9784
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_rms vs run
$\chi^2$ / ndf 283 / 104
p0 759.6 ± 0.5353
810
800
790
780
770
760
750
740
730


asym_us_avg_eigen_dit_correction_mean vs run
χ² / ndf 89.39 / 105
p0 2546 ± 1525
60000
40000
20000
0
−20000
−40000
pull
Entries 106
Mean −318.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 106
Mean 0.004762
Std Dev 0.9183
18
16
14
12
10
8
6
4
2
0
−8
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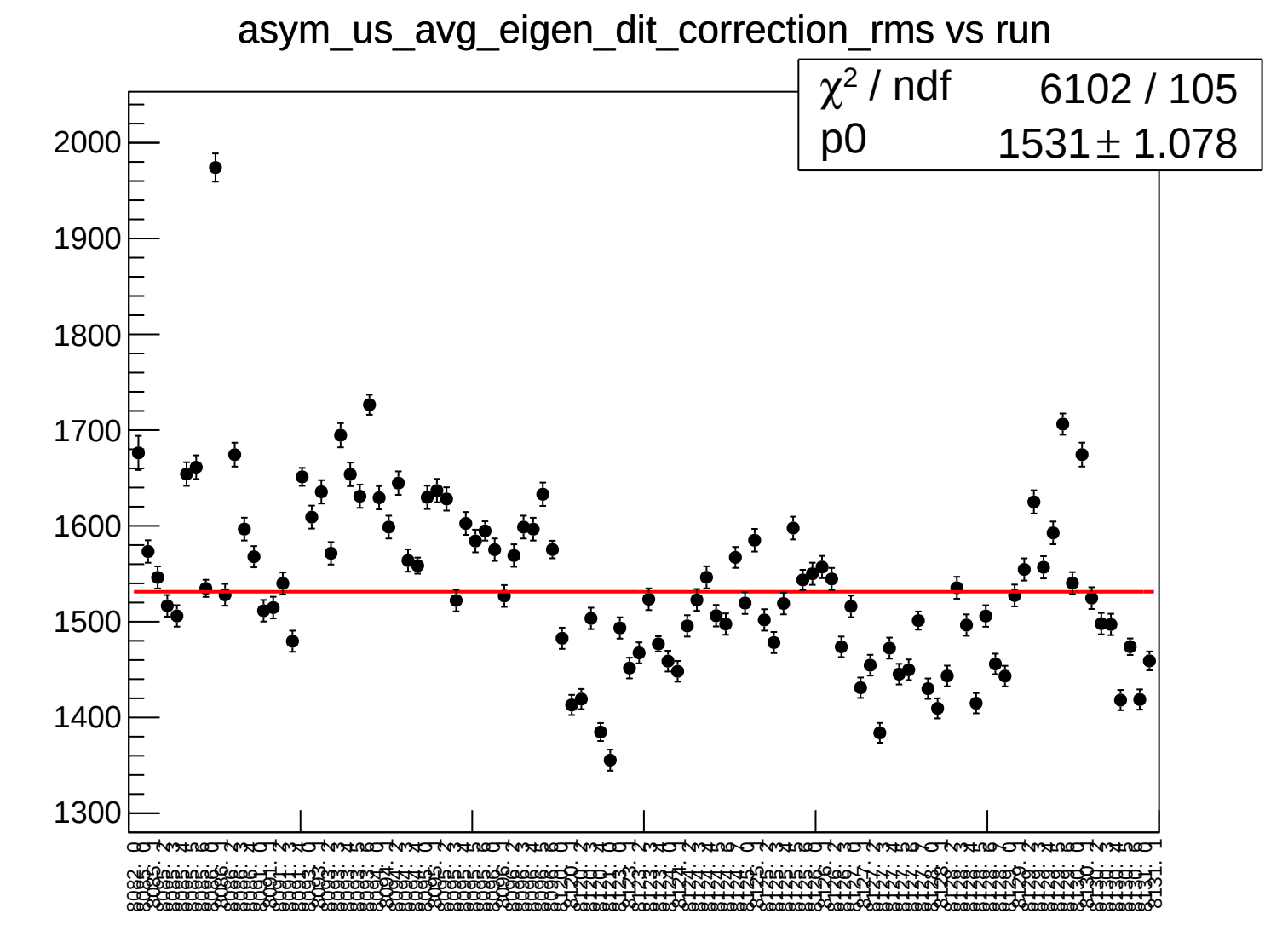
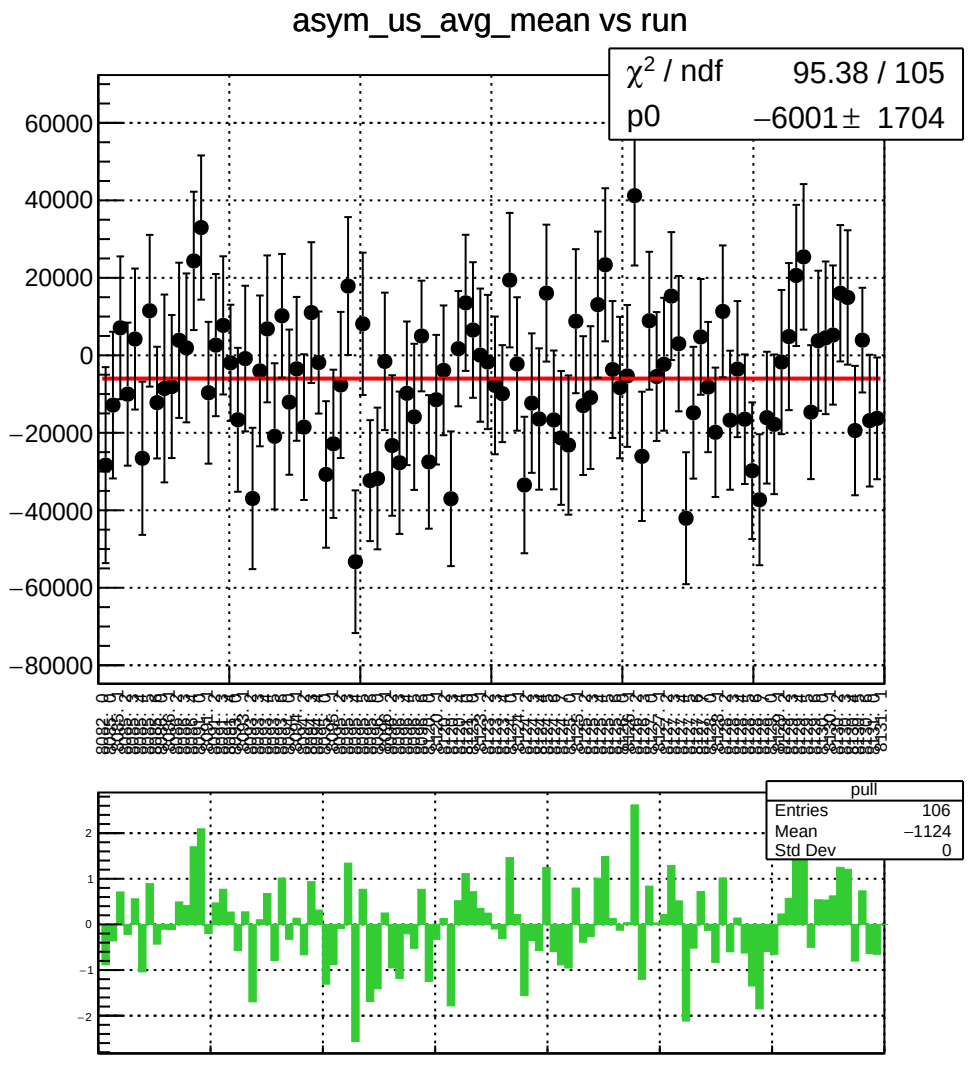
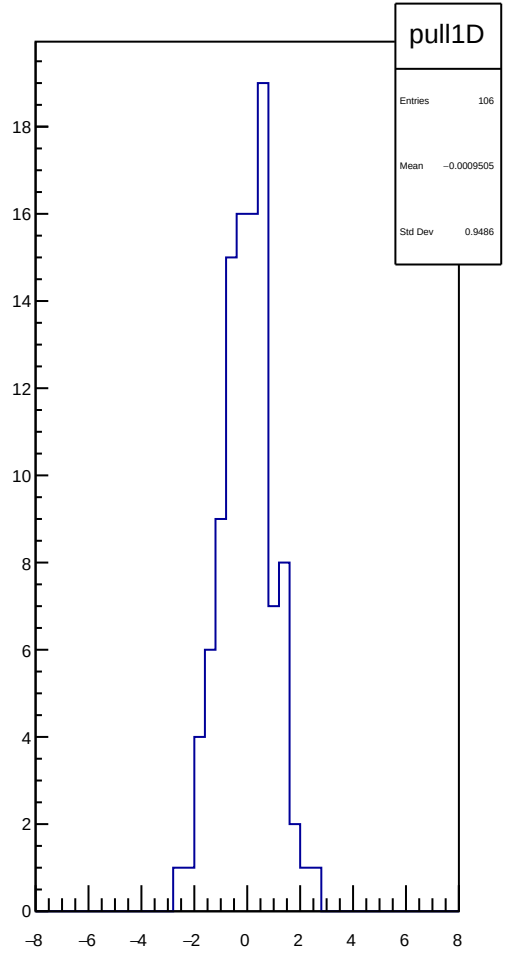
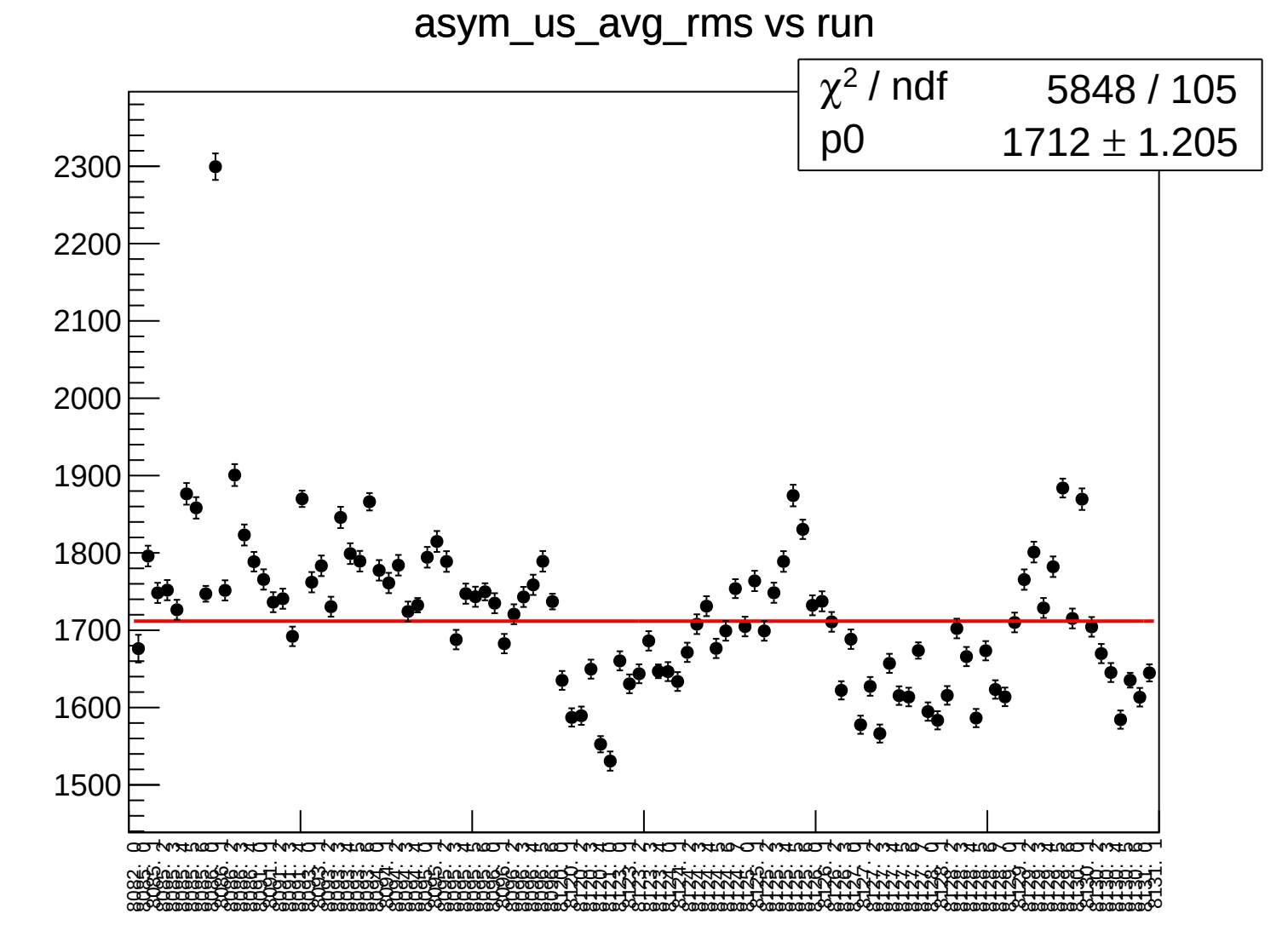
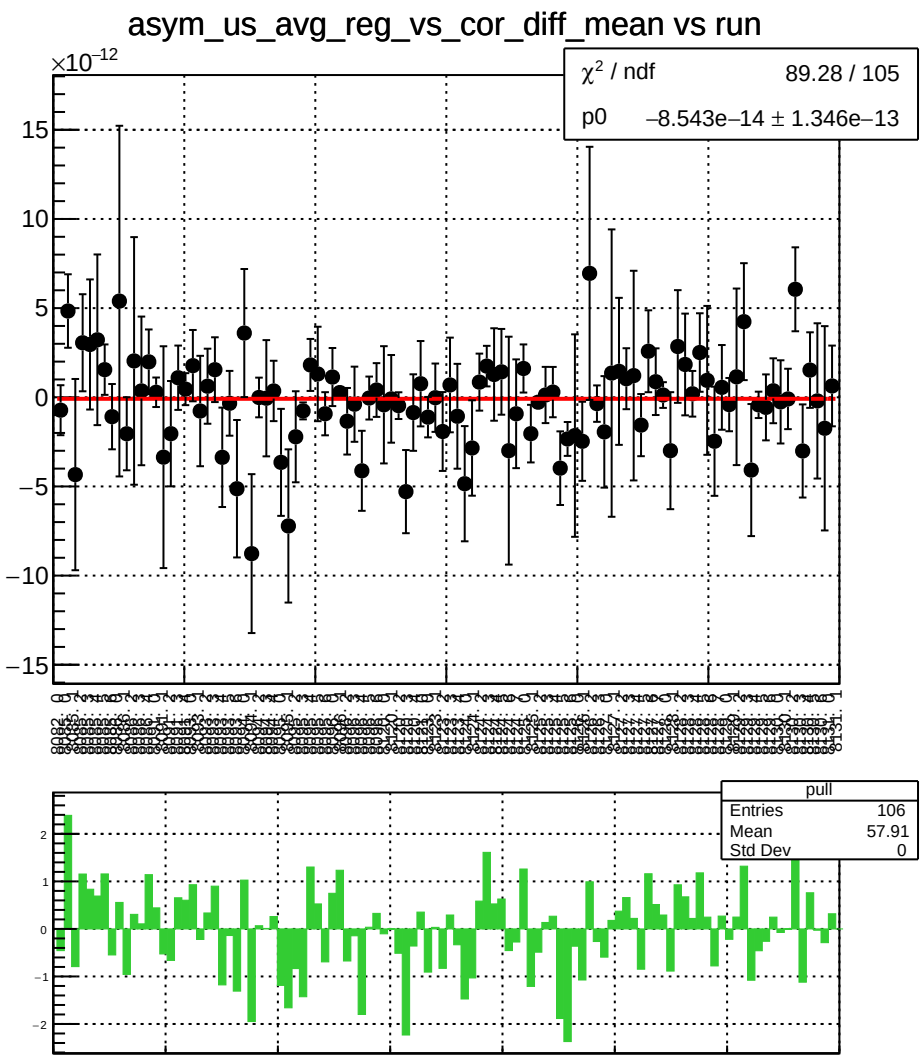
2
4
6
8

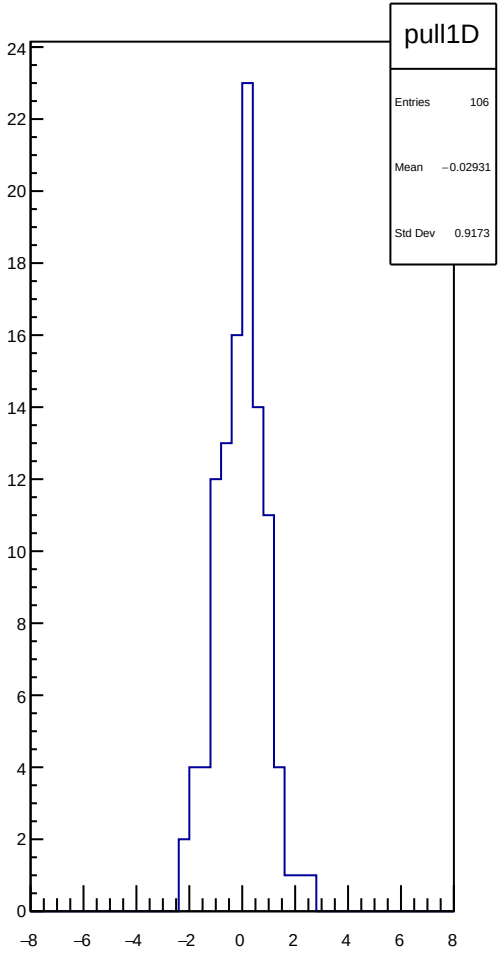

asym_us_avg_eigen_dit_correction_rms vs run
χ² / ndf 6102 / 105
p0 1531 ± 1.078
2000
1900
1800
1700
1600
1500
1400
1300

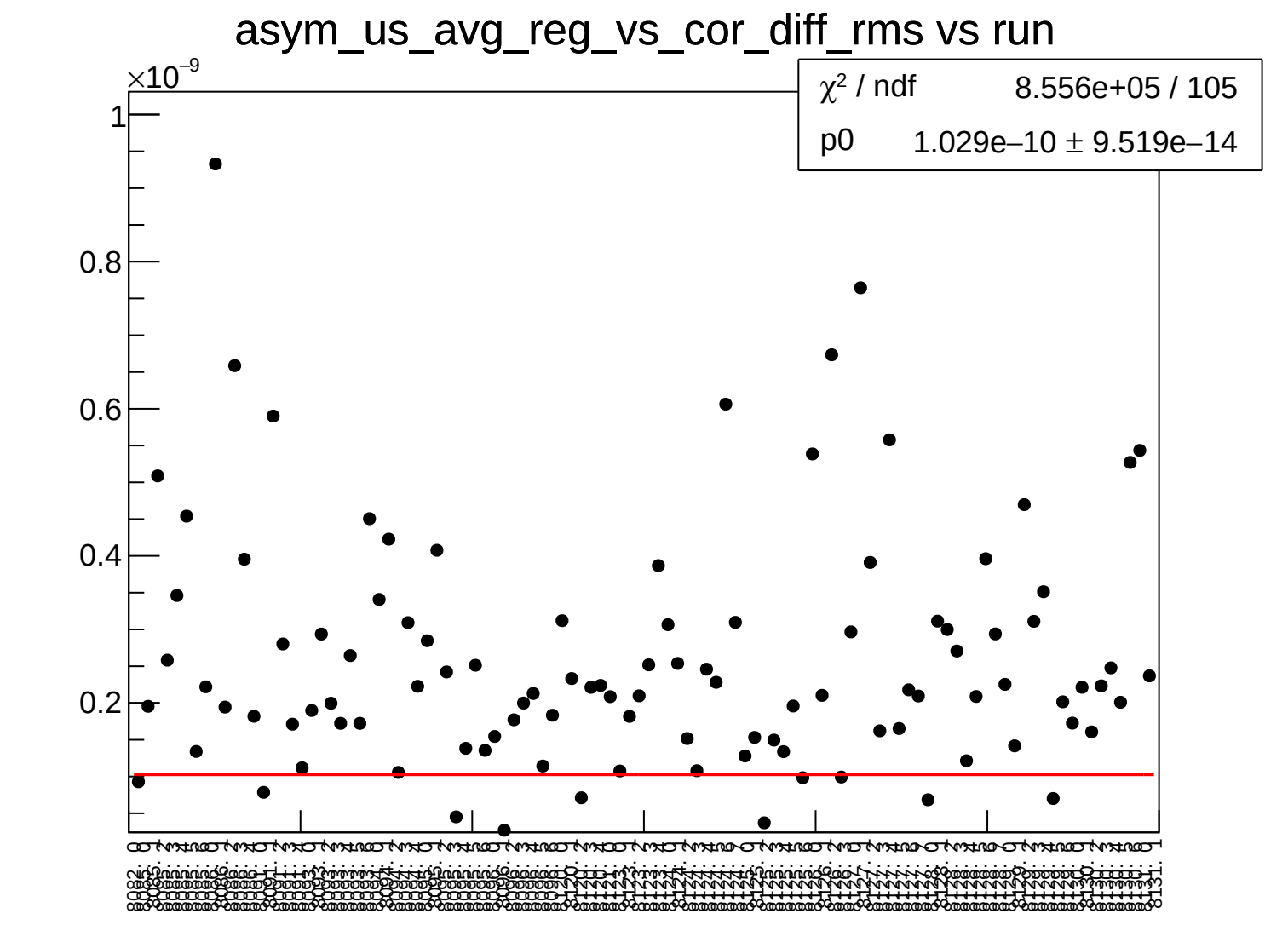

asym_us_avg_mean vs run
χ² / ndf 95.38 / 105
p0 −6001 ± 1704
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 106
Mean −1124
Std Dev 0
2
1
0
−1
−2

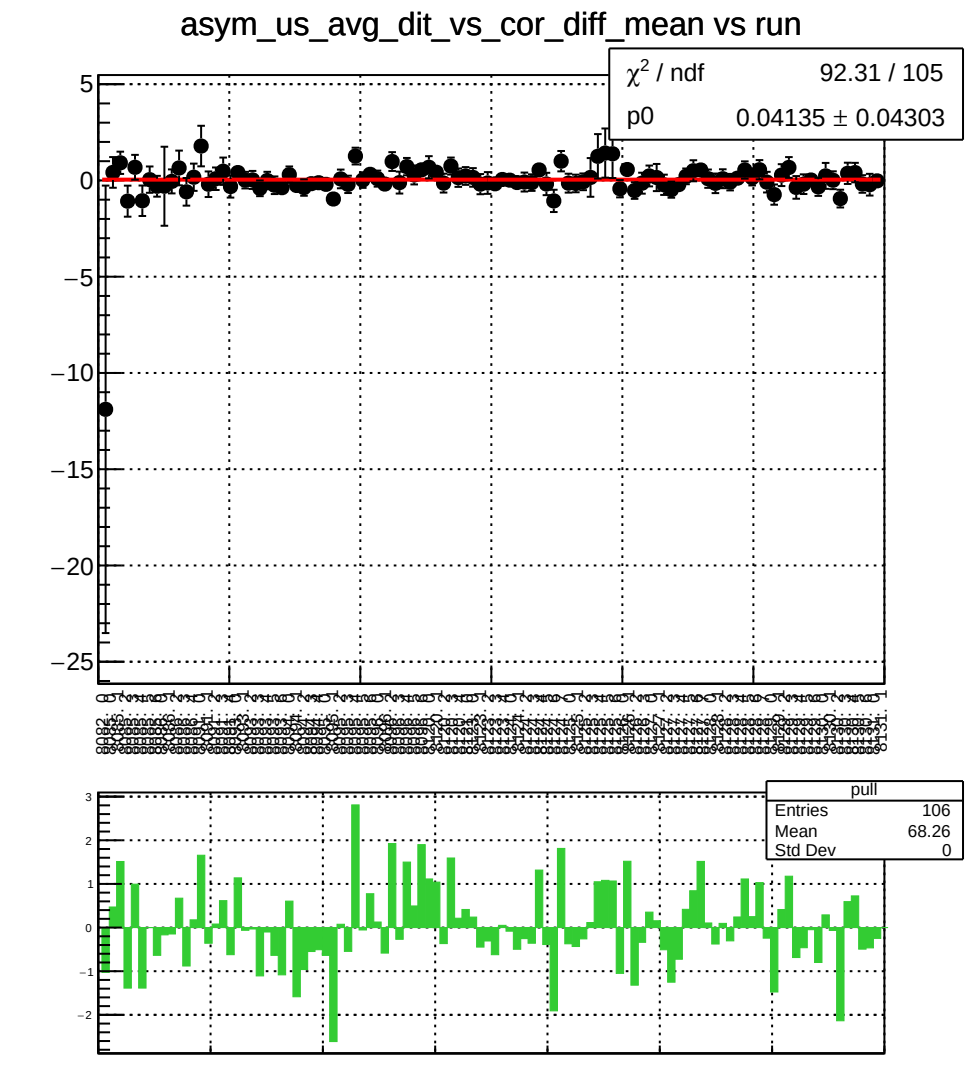

pull1D
Entries 106
Mean −0.0009505
Std Dev 0.9486
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

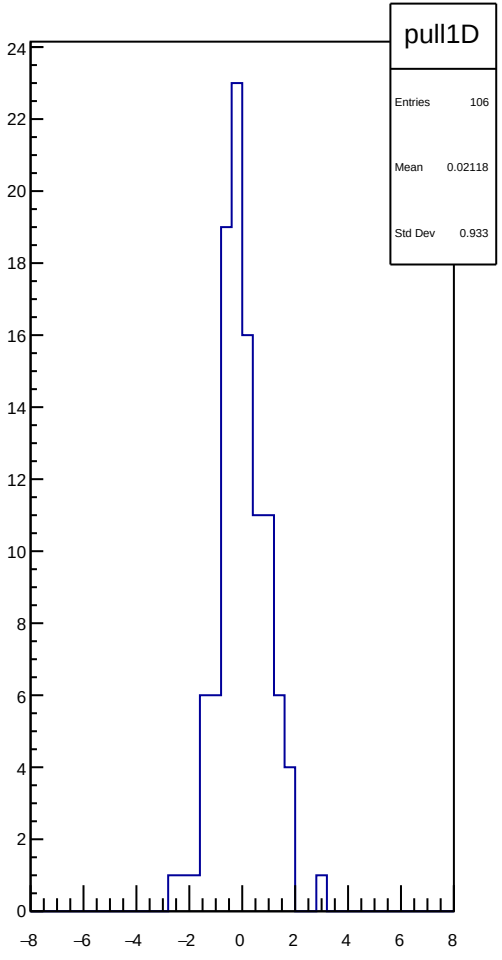

asym_us_avg_rms vs run
$\chi^2$ / ndf 5848 / 105
p0 1712 ± 1.205
2300
2200
2100
2000
1900
1800
1700
1600
1500

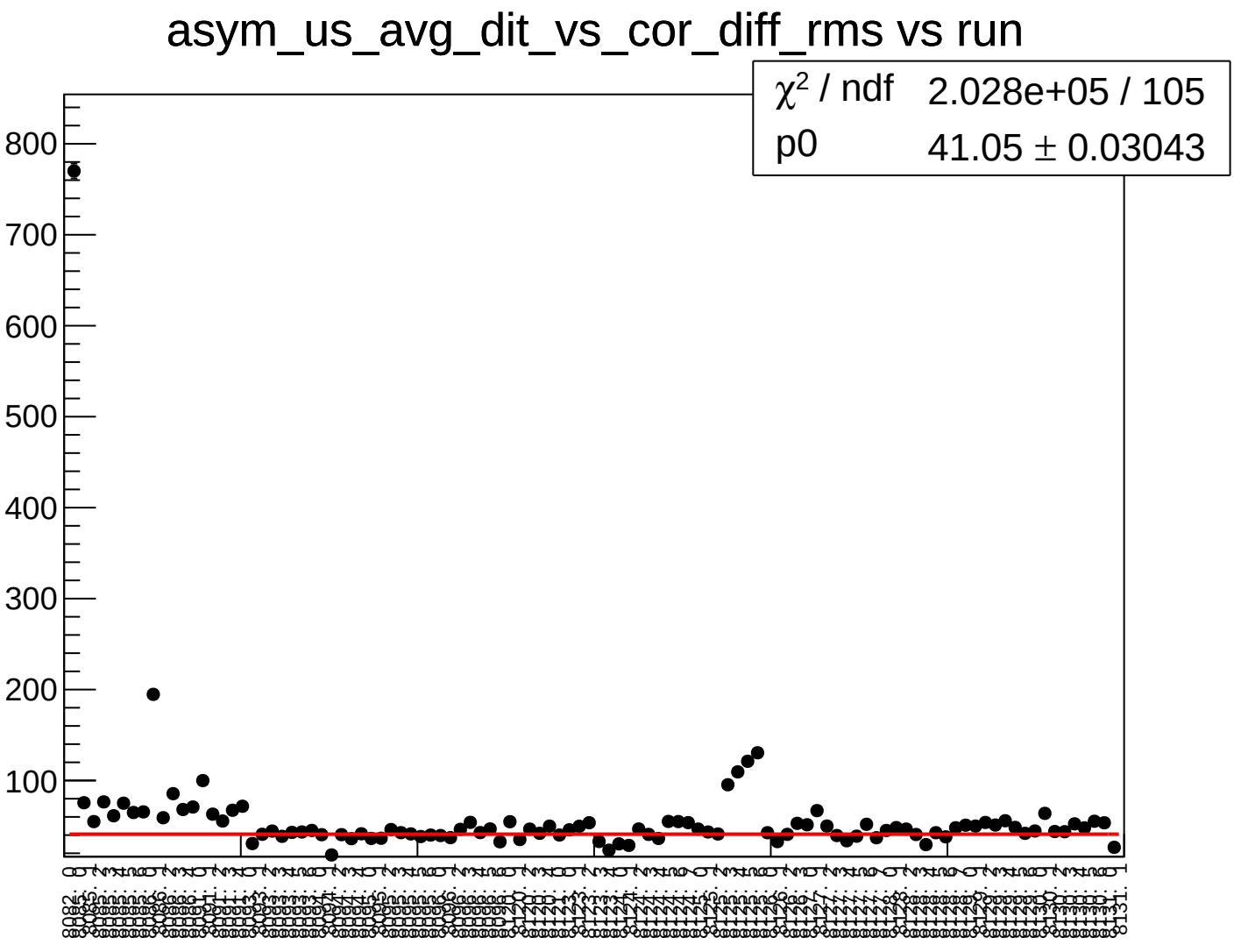

asym_us_avg_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.28 / 105
p0 −8.543e−14 ± 1.346e−13
15
10
5
0
−5
−10
−15
pull
Entries 106
Mean 57.91
Std Dev 0
2
1
0
−1
−2

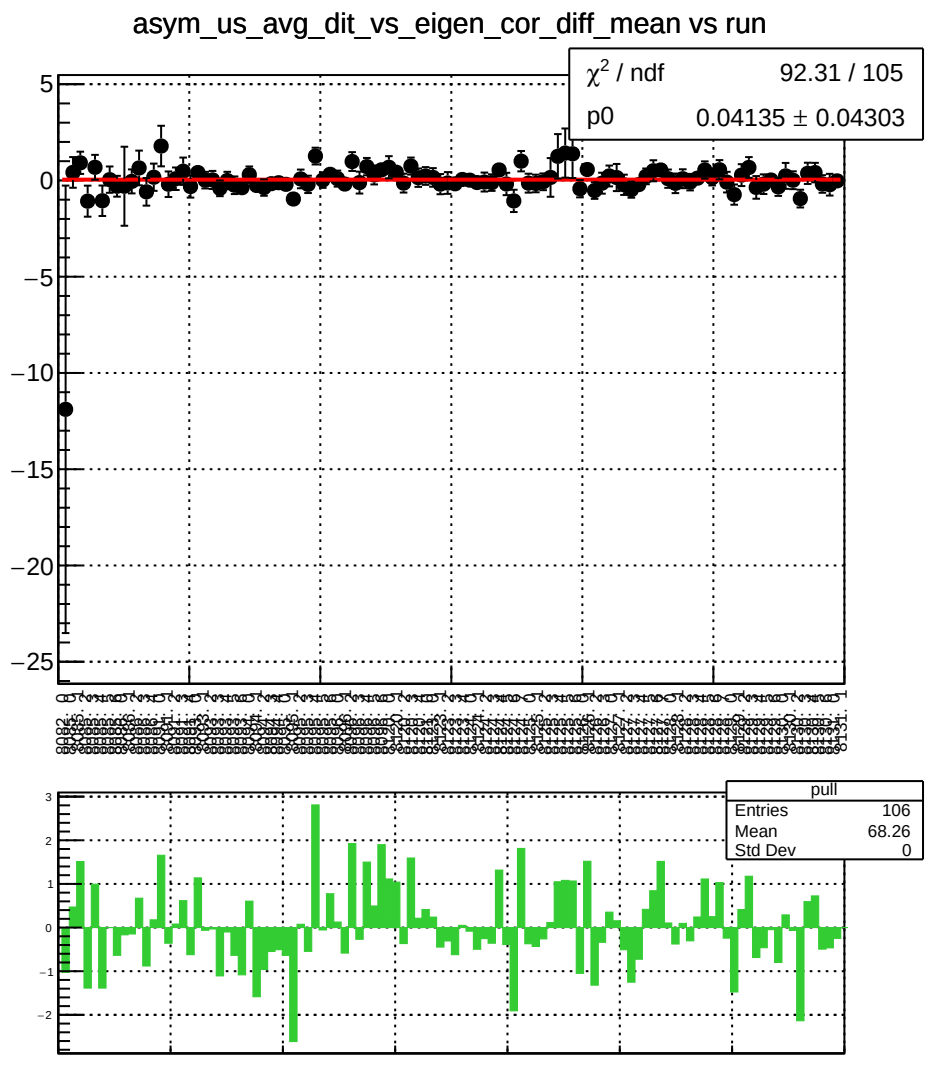

pull1D
Entries 106
Mean −0.02931
Std Dev 0.9173
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

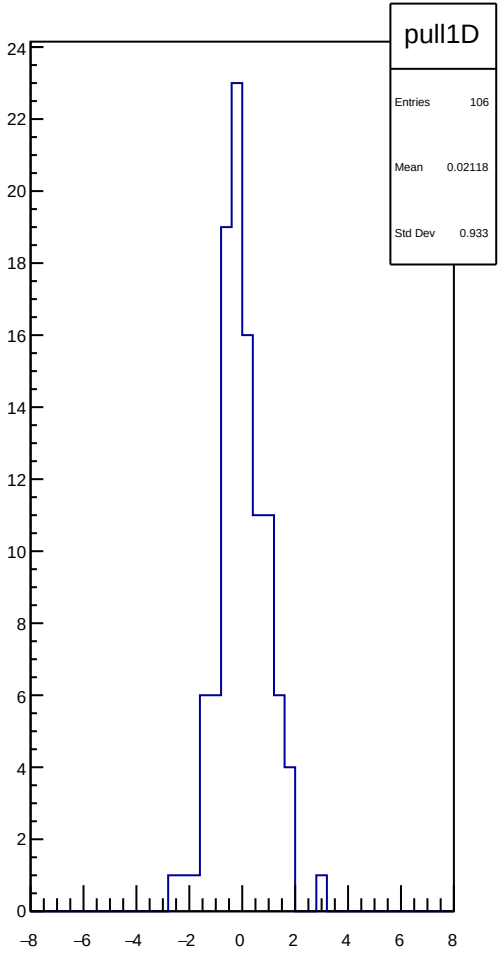

asym_us_avg_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.556e+05 / 105
p0 1.029e−10 ± 9.519e−14
1
0.8
0.6
0.4
0.2

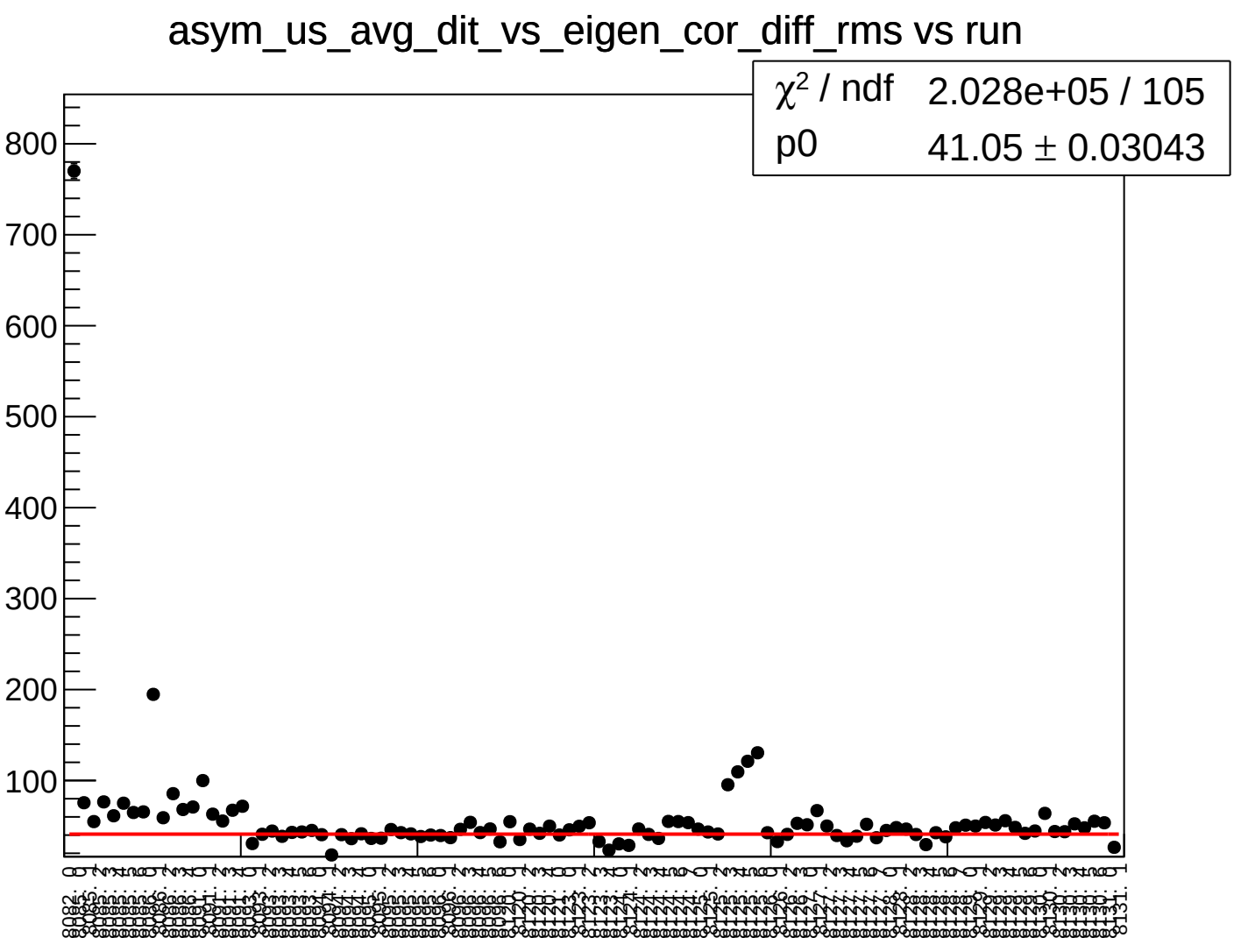

asym_us_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 92.31 / 105
p0 0.04135 ± 0.04303
pull
Entries 106
Mean 68.26
Std Dev 0

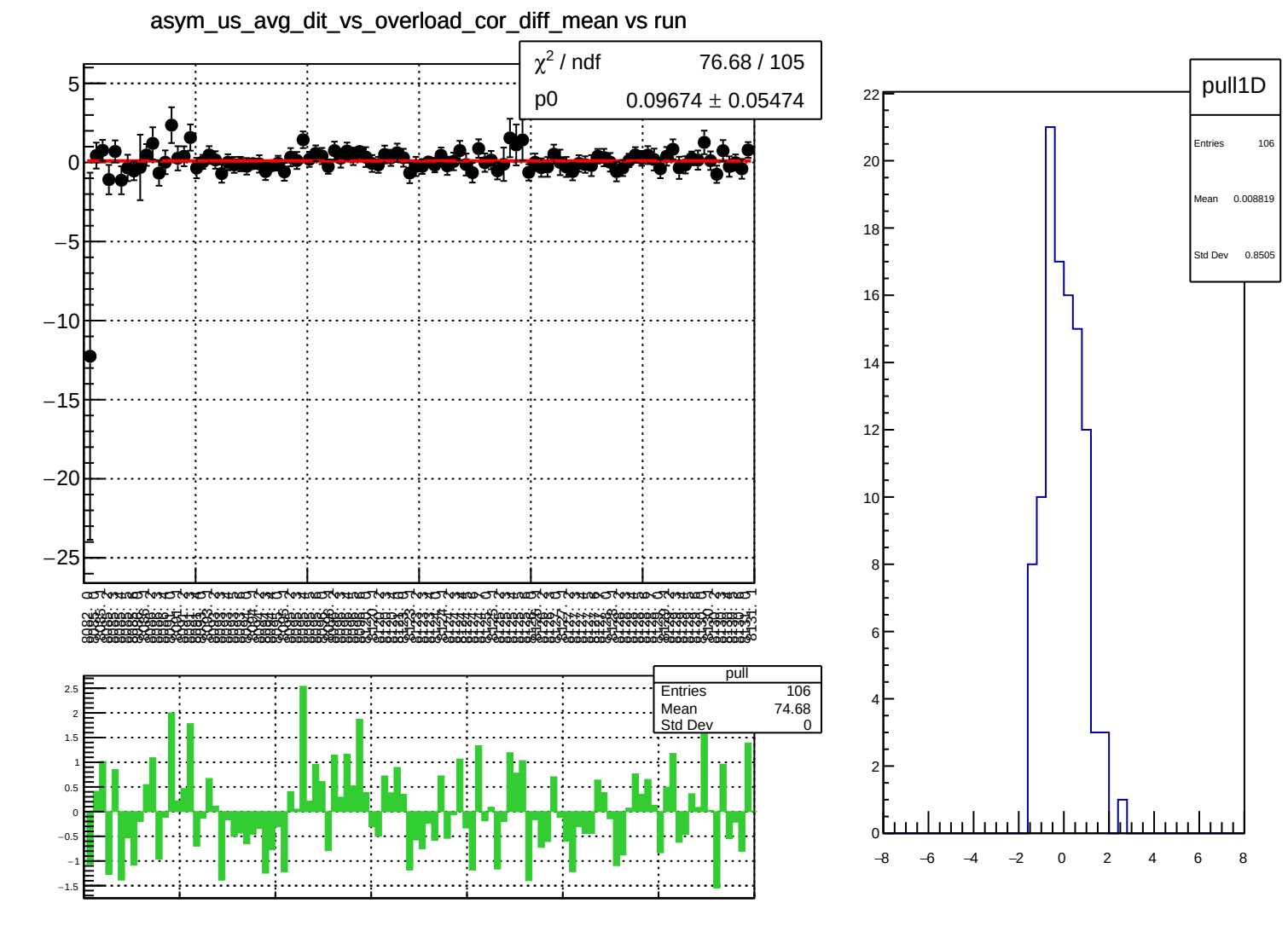

pull1D
Entries 106
Mean 0.02118
Std Dev 0.933

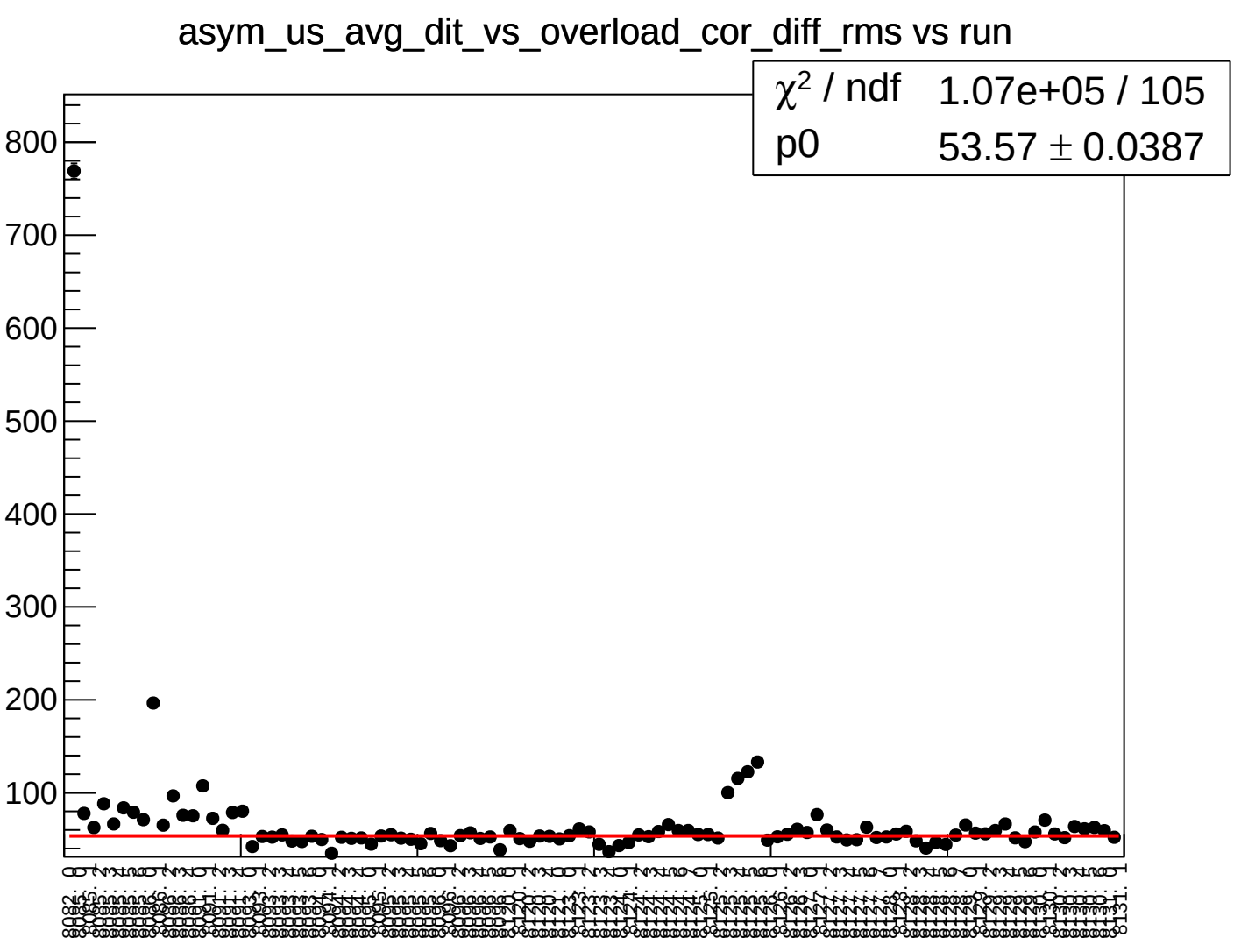

asym_us_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.028e+05 / 105
p0 41.05 ± 0.03043
800
700
600
500
400
300
200
100

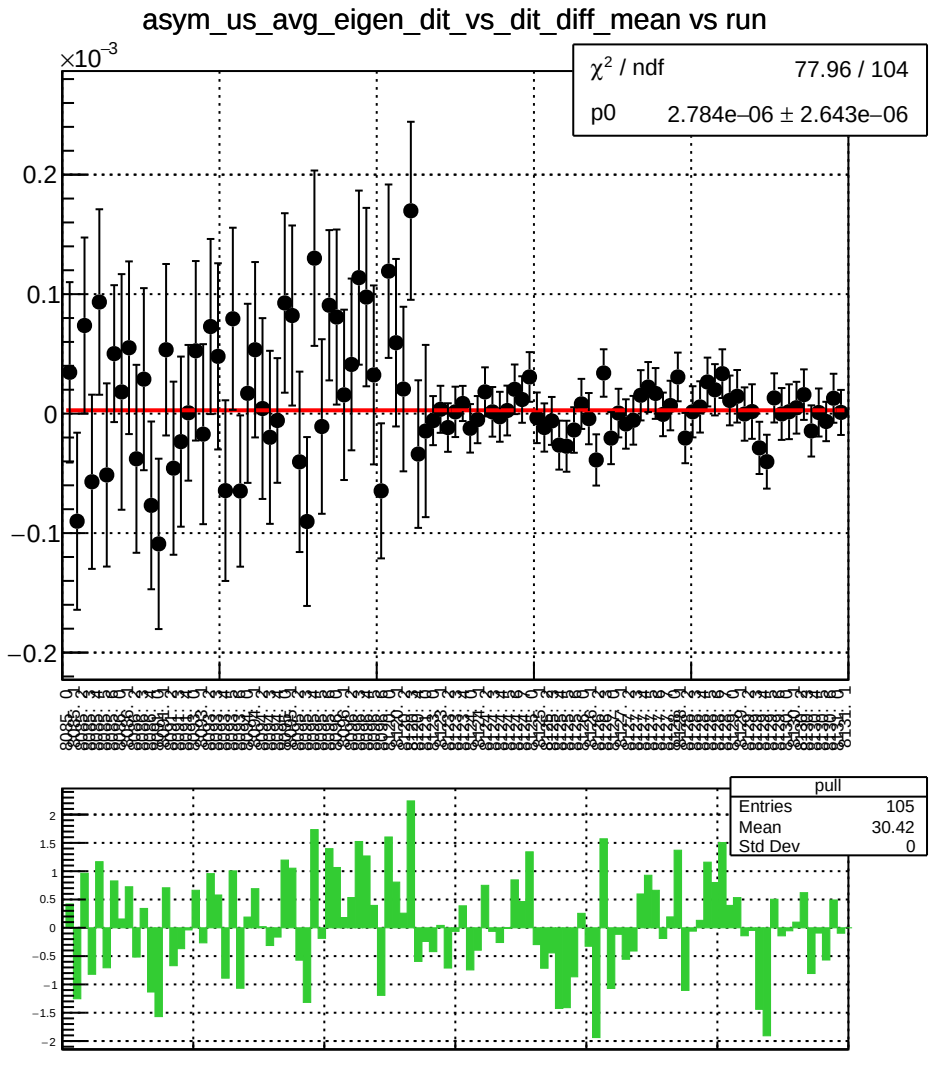

asym_us_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.31 / 105
p0 0.04135 ± 0.04303
pull
Entries 106
Mean 68.26
Std Dev 0

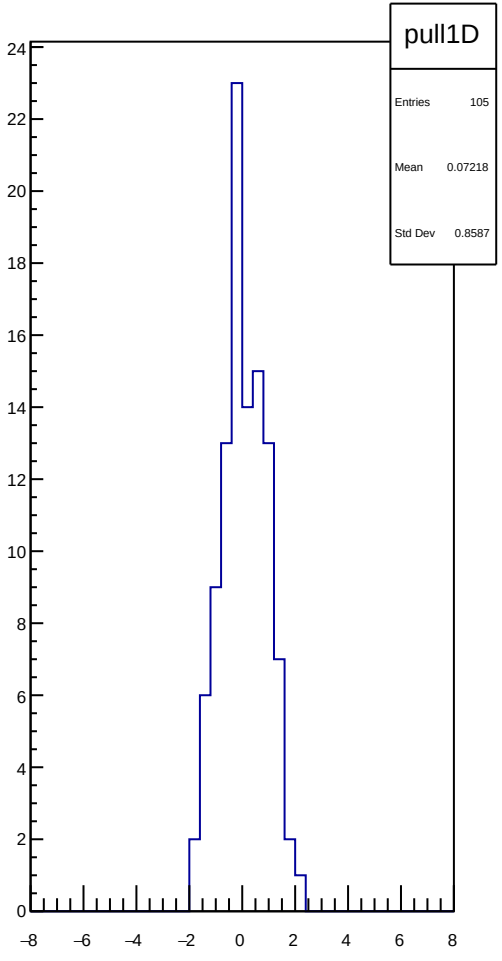

pull1D
Entries 106
Mean 0.02118
Std Dev 0.933

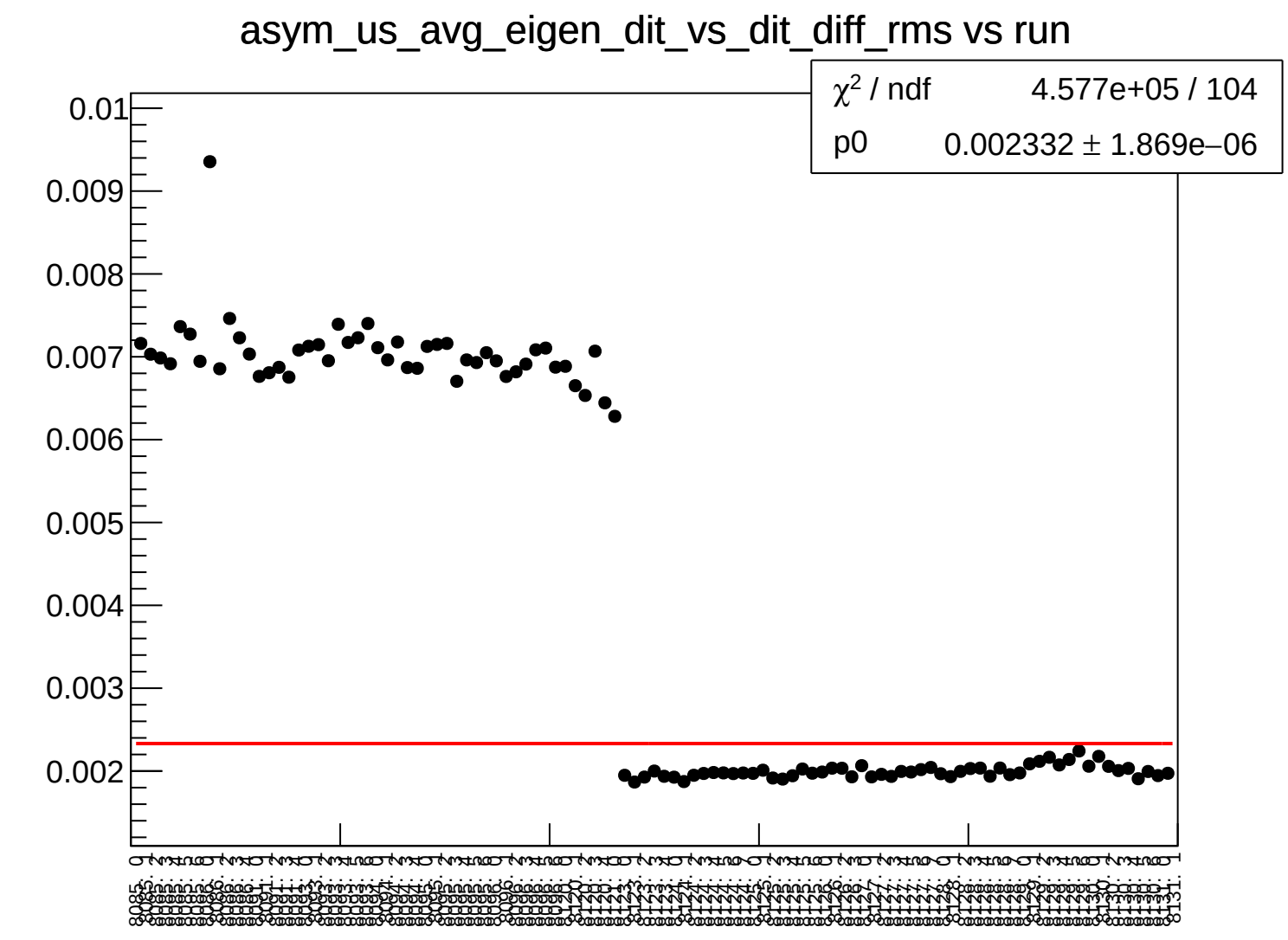

asym_us_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.028e+05 / 105
p0 41.05 ± 0.03043
800
700
600
500
400
300
200
100

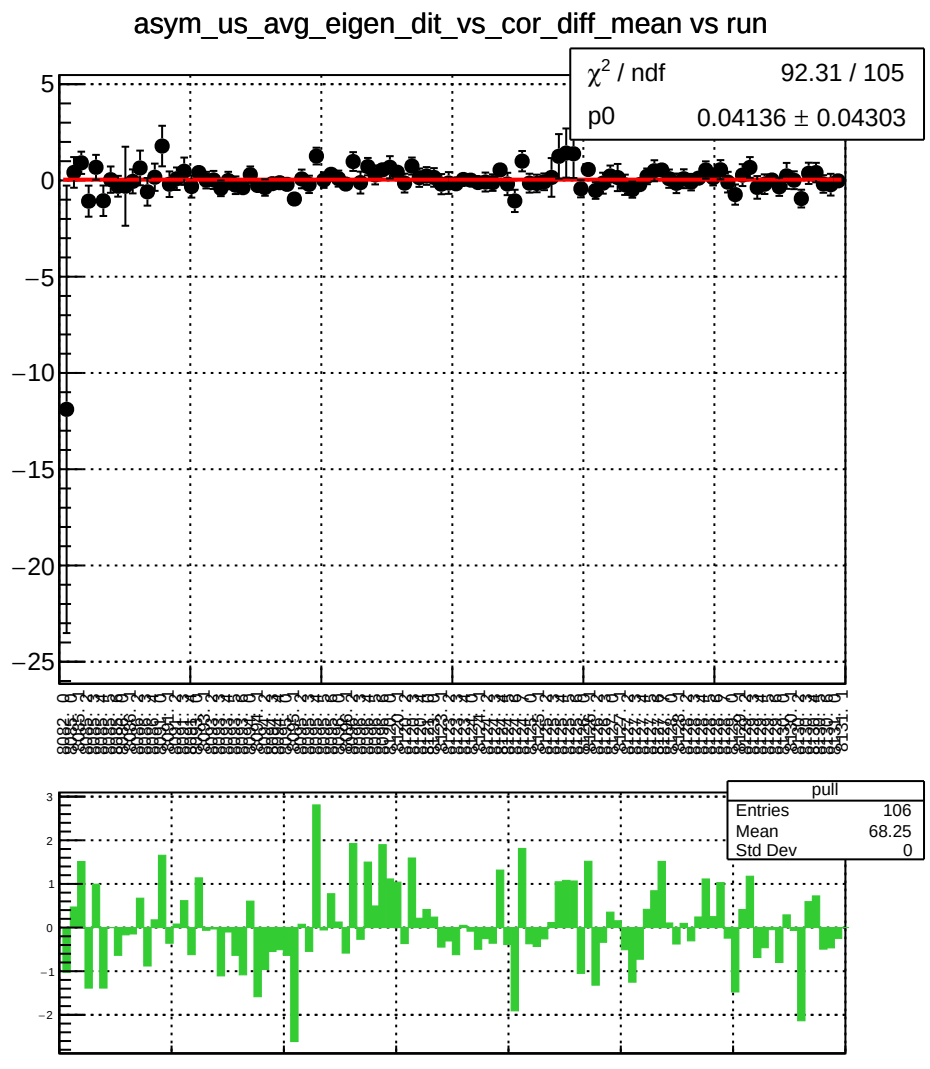

asym_us_avg_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 76.68 / 105
p0 0.09674 ± 0.05474
pull
Entries 106
Mean 74.68
Std Dev 0
pull1D
Entries 106
Mean 0.008819
Std Dev 0.8505

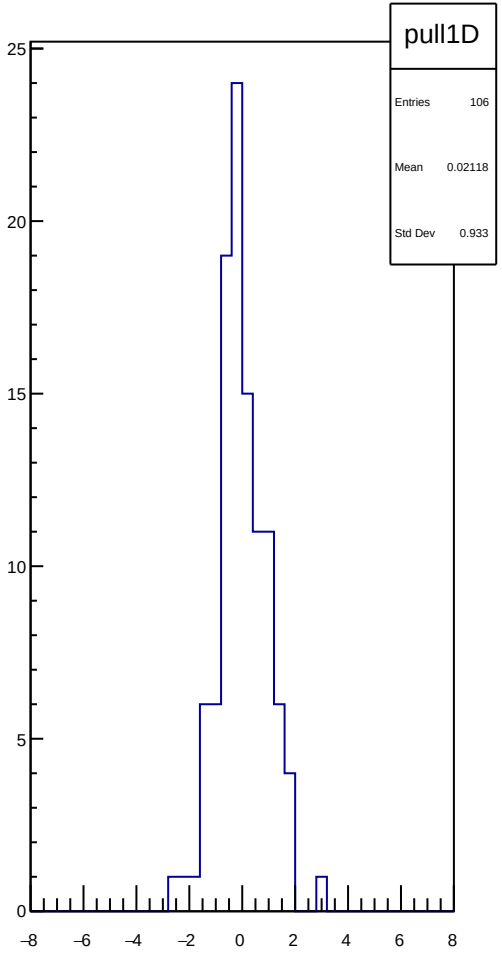

asym_us_avg_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.07e+05 / 105
p0 53.57 ± 0.0387
800
700
600
500
400
300
200
100

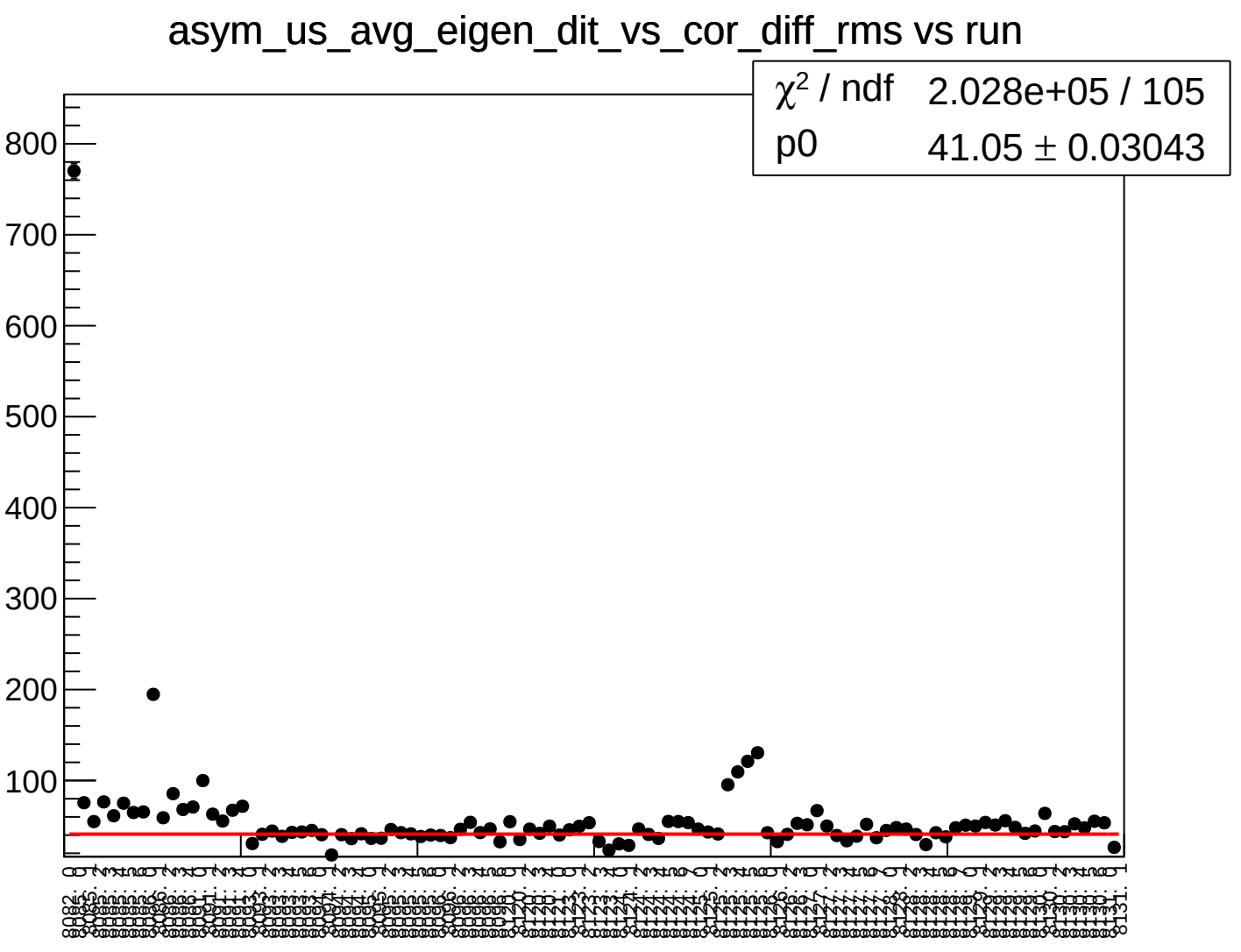

asym_us_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 77.96 / 104
p0 2.784e−06 ± 2.643e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 105
Mean 30.42
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

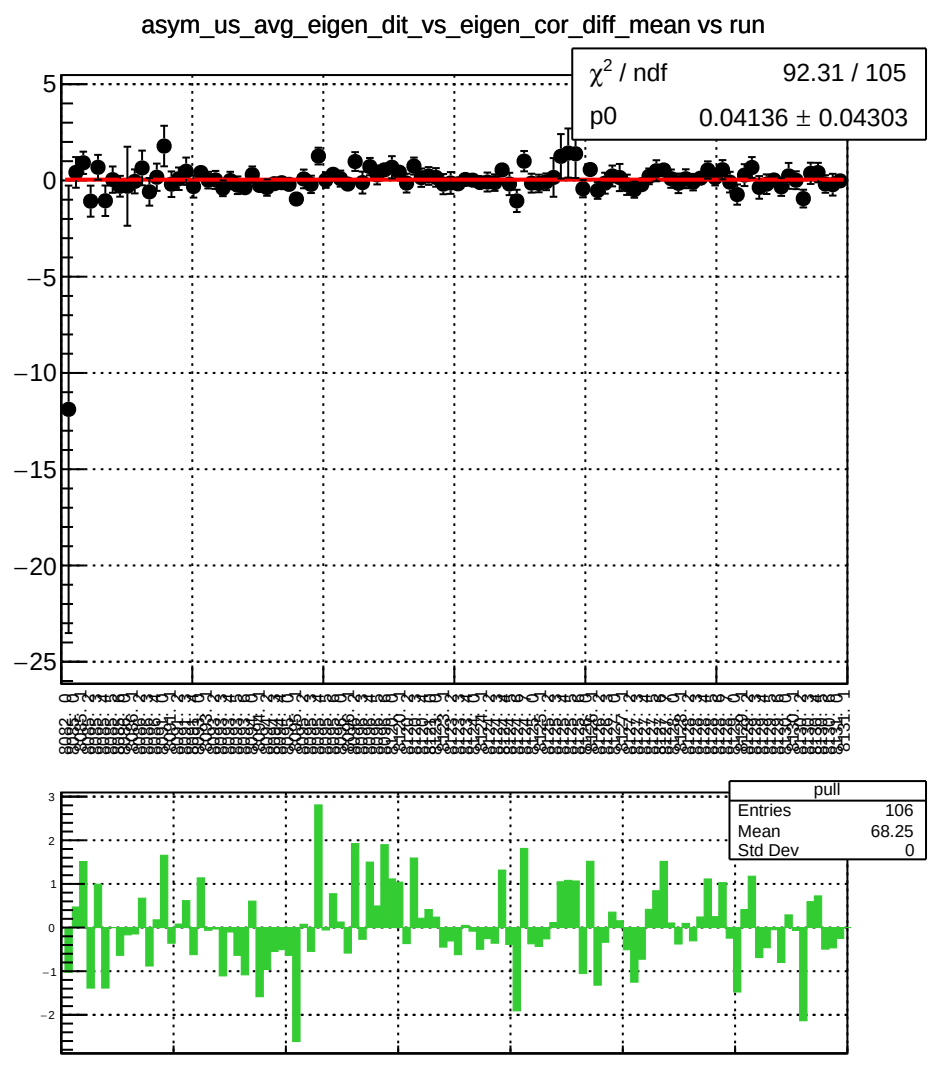

pull1D
Entries 105
Mean 0.07218
Std Dev 0.8587
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

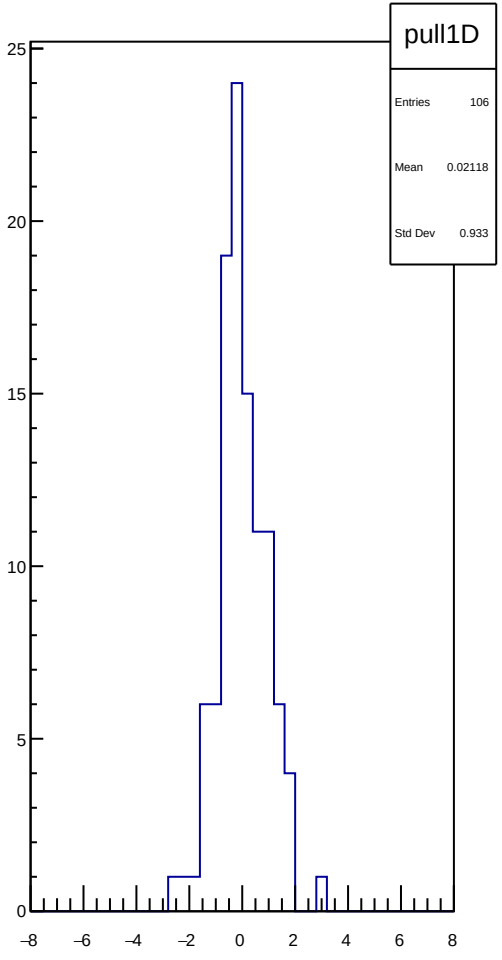

asym_us_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.577e+05 / 104
p0 0.002332 ± 1.869e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002

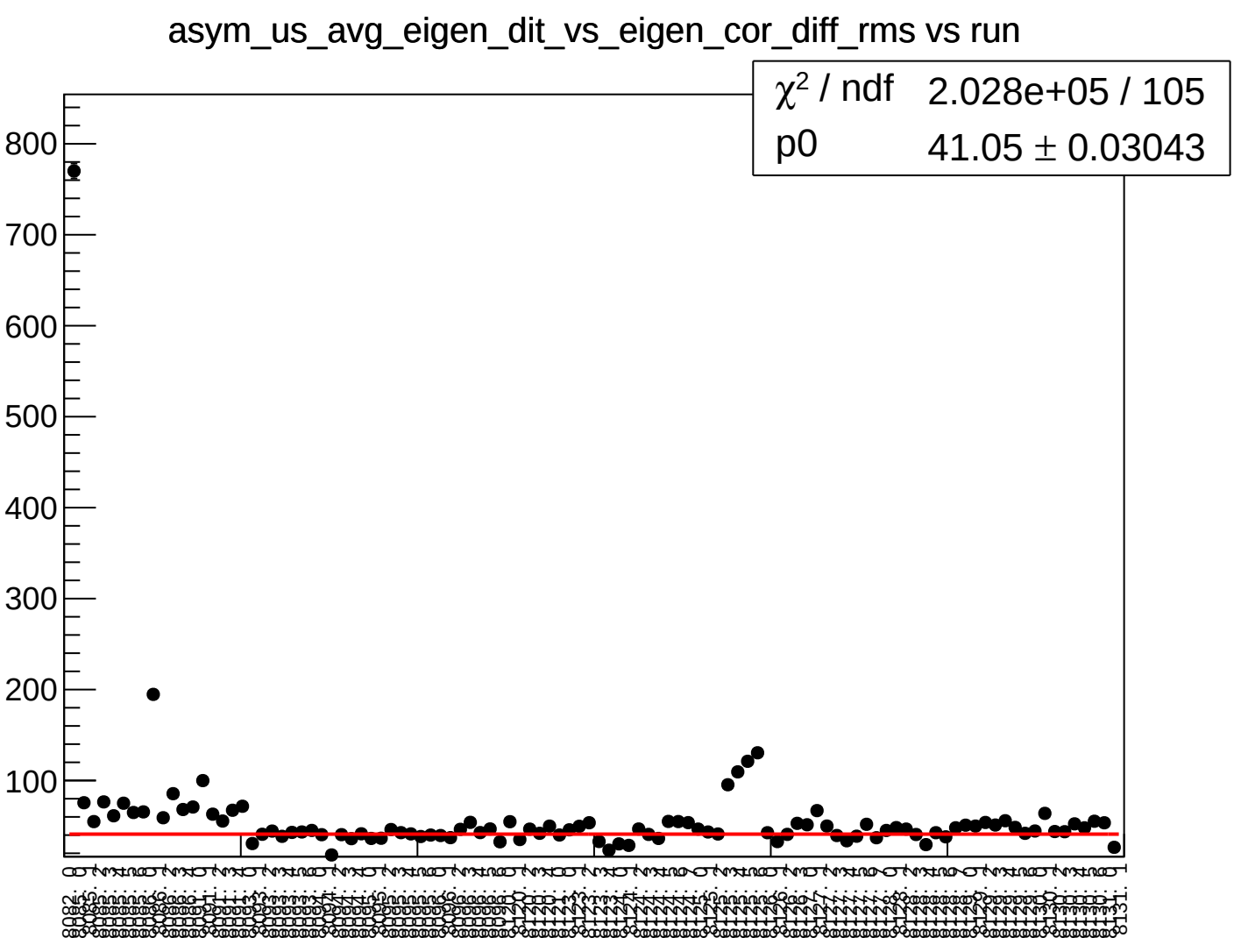

asym_us_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.31 / 105
p0 0.04136 ± 0.04303
pull
Entries 106
Mean 68.25
Std Dev 0

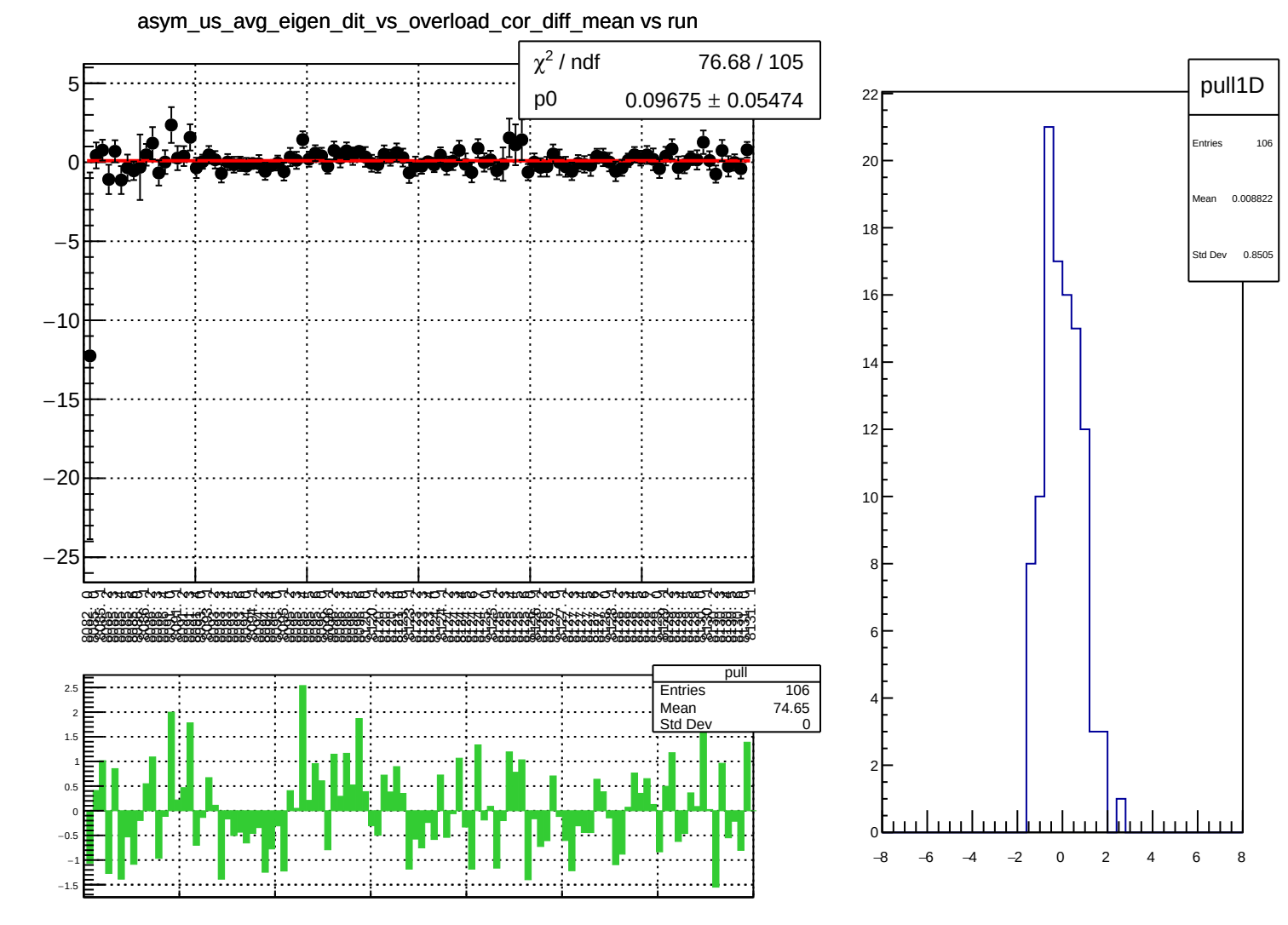

pull1D
Entries 106
Mean 0.02118
Std Dev 0.933

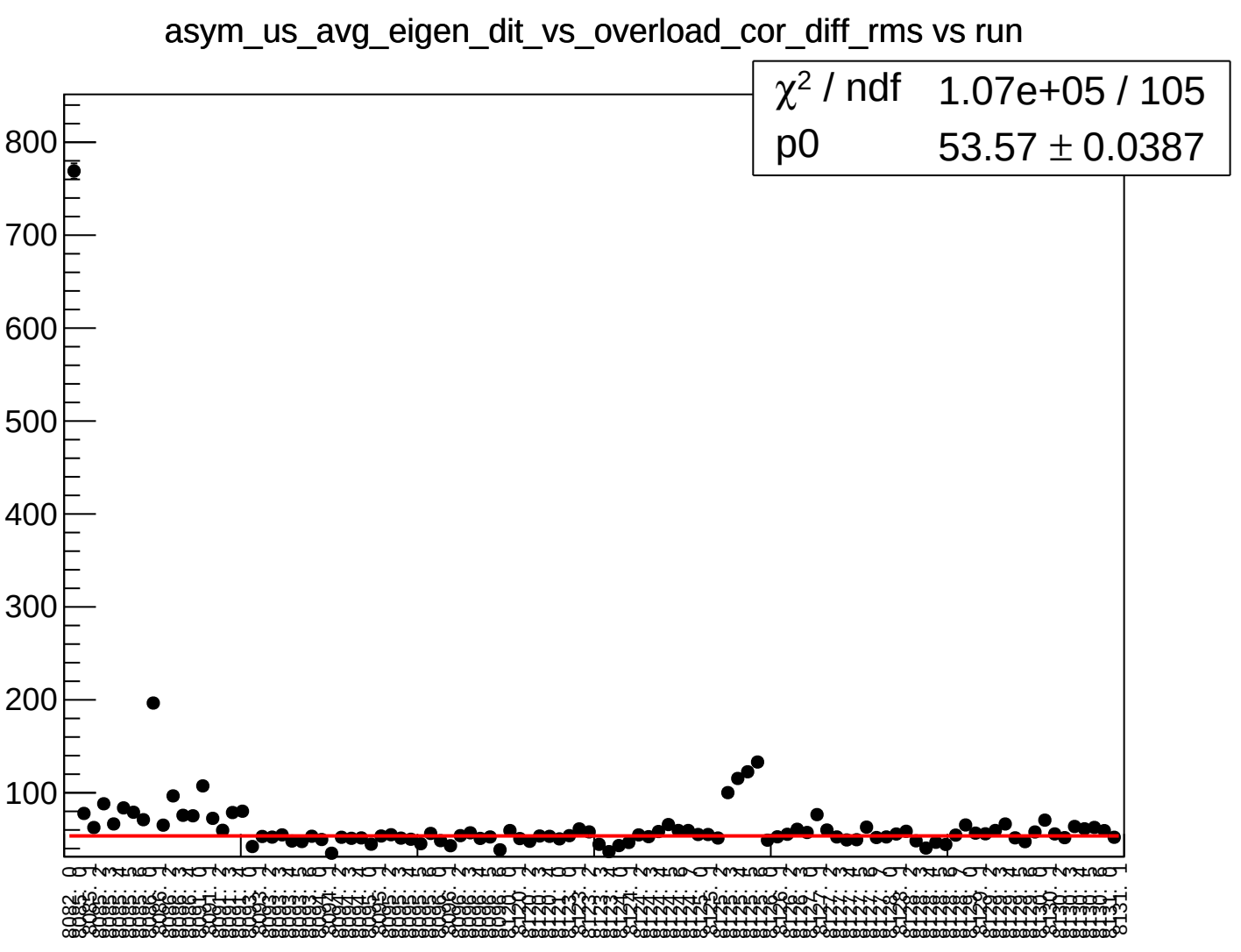

asym_us_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.028e+05 / 105
p0 41.05 ± 0.03043
800
700
600
500
400
300
200
100

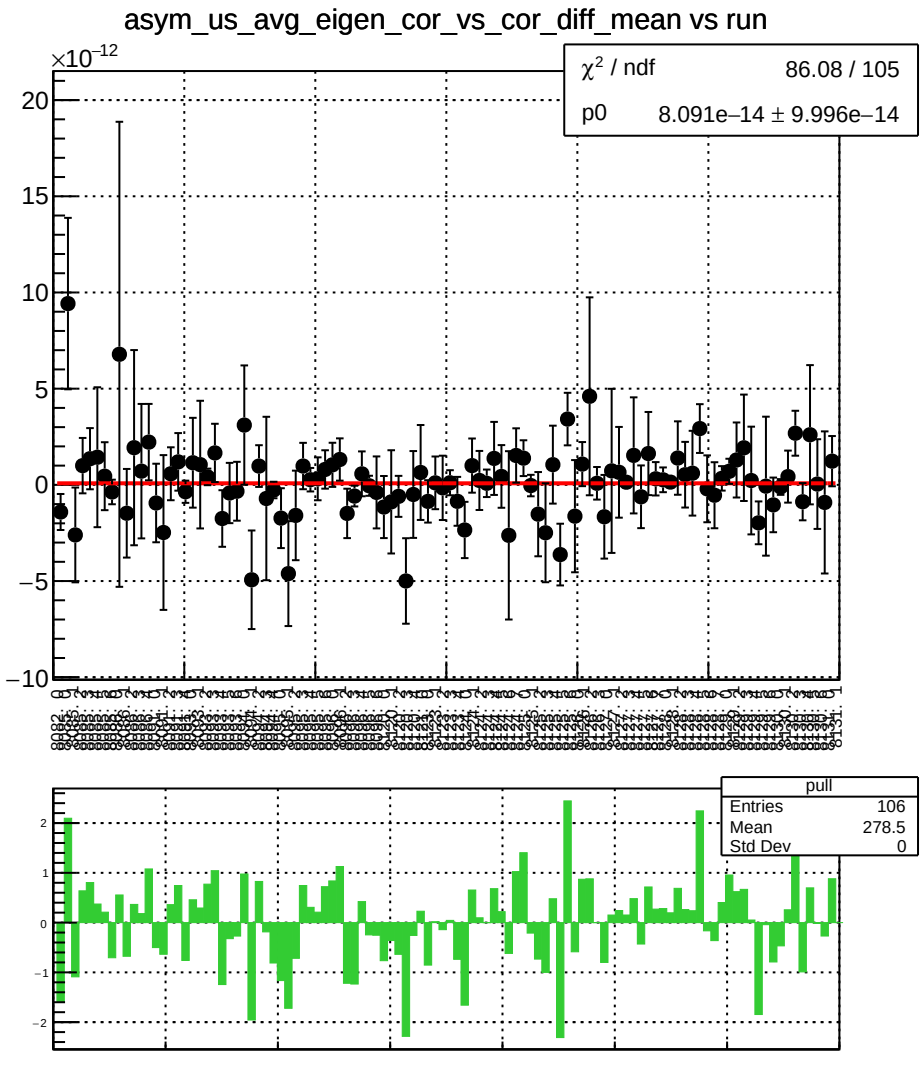

asym_us_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.31 / 105
p0 0.04136 ± 0.04303
pull
Entries 106
Mean 68.25
Std Dev 0

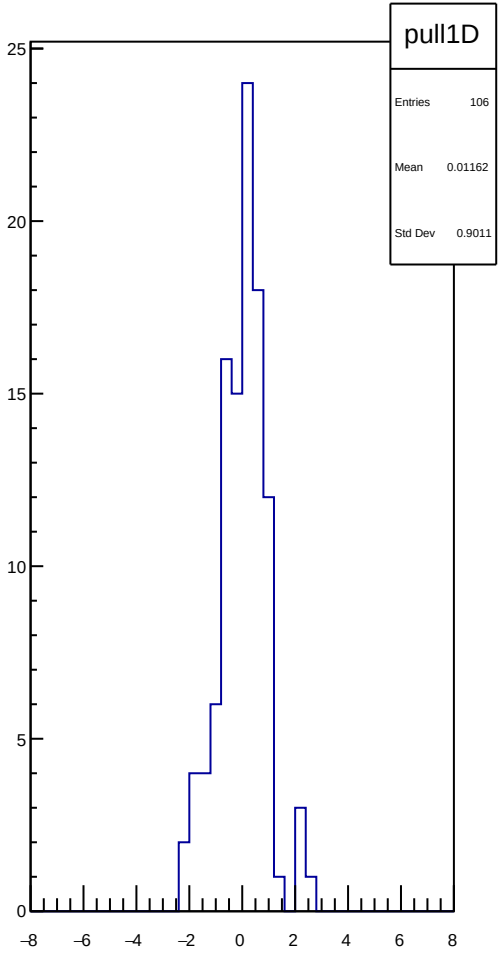

pull1D
Entries 106
Mean 0.02118
Std Dev 0.933

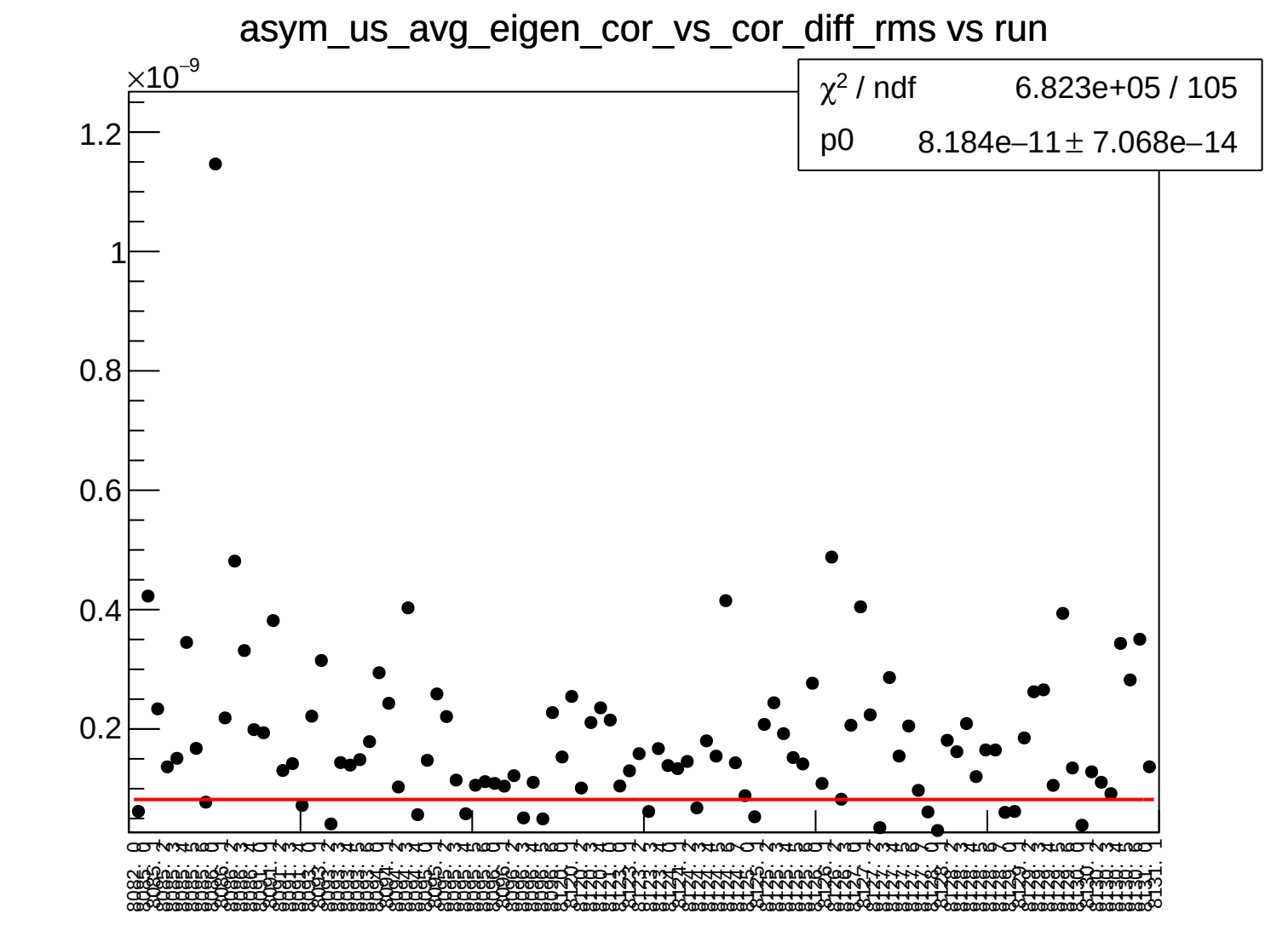

asym_us_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.028e+05 / 105
p0 41.05 ± 0.03043
800
700
600
500
400
300
200
100

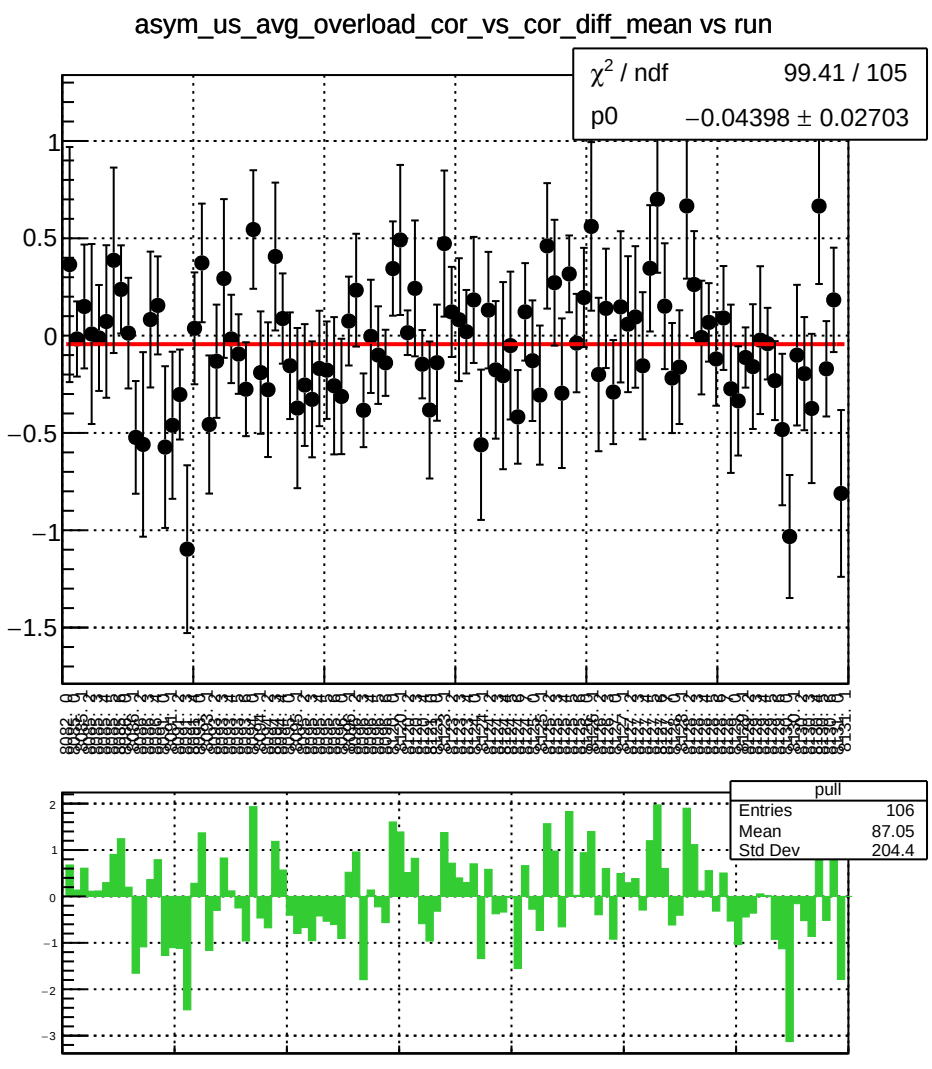

asym_us_avg_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 76.68 / 105
p0 0.09675 ± 0.05474
pull
Entries 106
Mean 74.65
Std Dev 0
pull1D
Entries 106
Mean 0.008822
Std Dev 0.8505

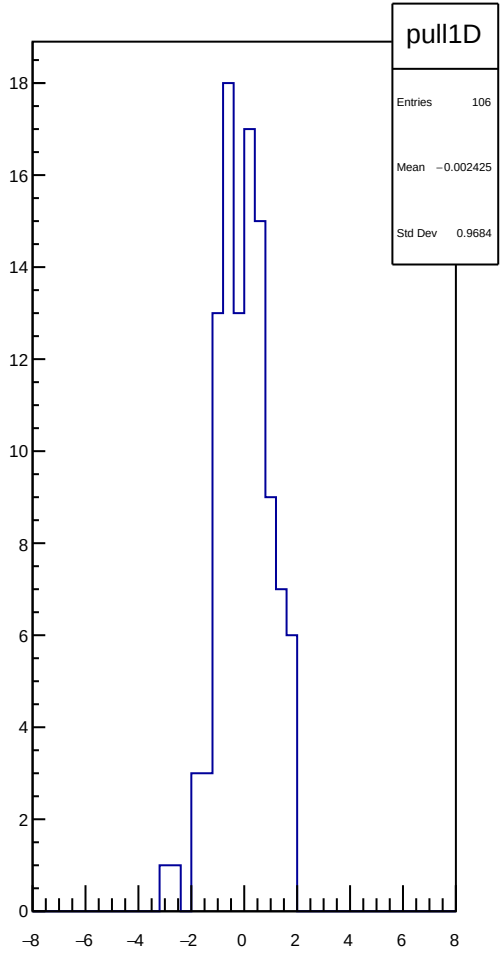

asym_us_avg_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.07e+05 / 105
p0 53.57 ± 0.0387
800
700
600
500
400
300
200
100

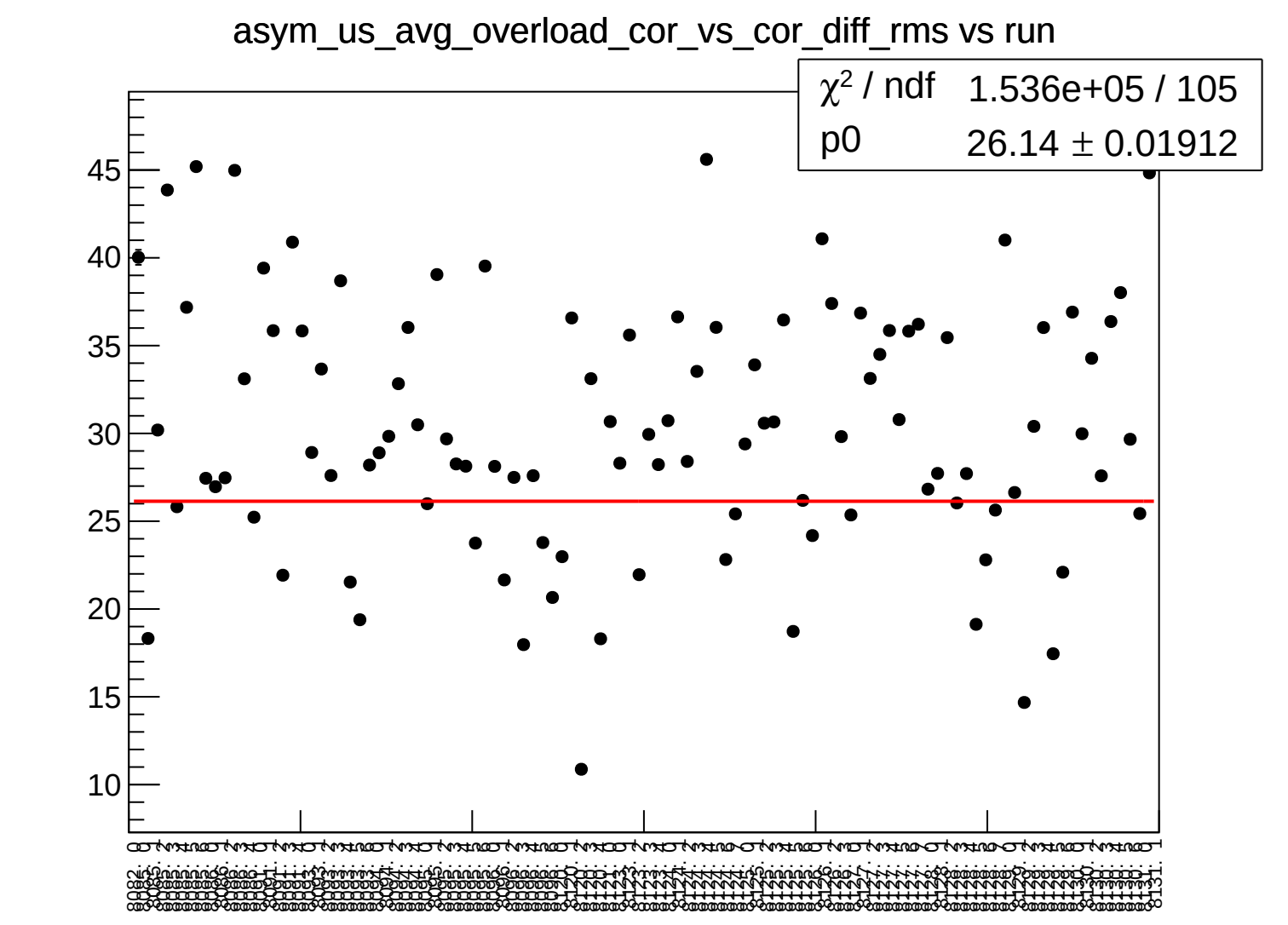

asym_us_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.08 / 105
p0 8.091e−14 ± 9.996e−14
pull
Entries 106
Mean 278.5
Std Dev 0

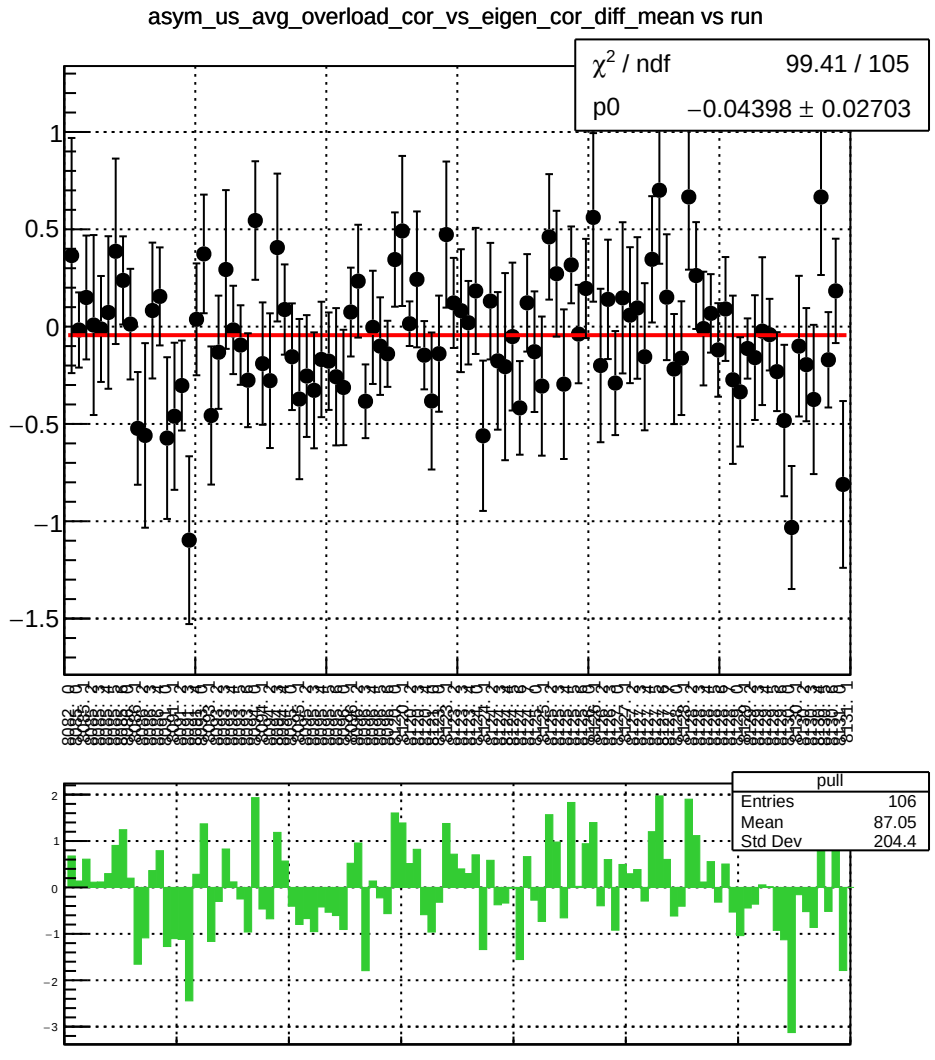

pull1D
Entries 106
Mean 0.01162
Std Dev 0.9011

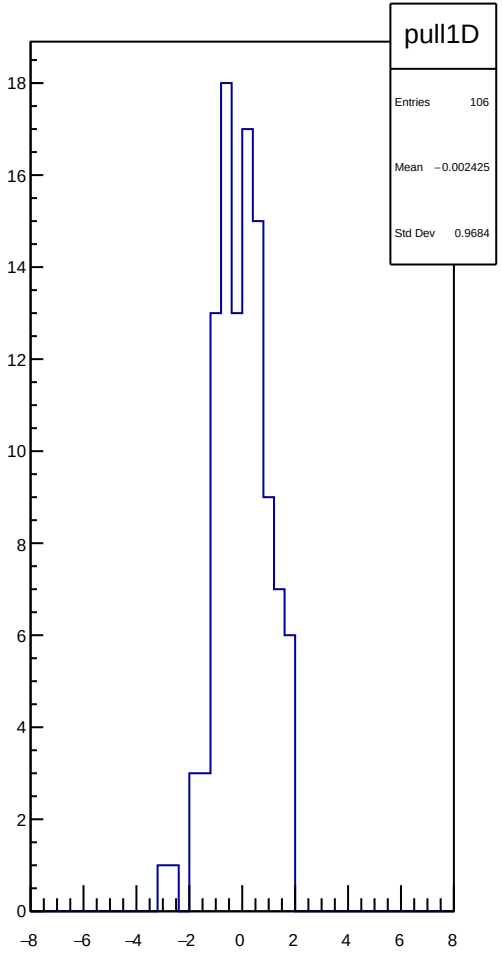

asym_us_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.823e+05 / 105
p0 8.184e−11 ± 7.068e−14
1.2
1
0.8
0.6
0.4
0.2

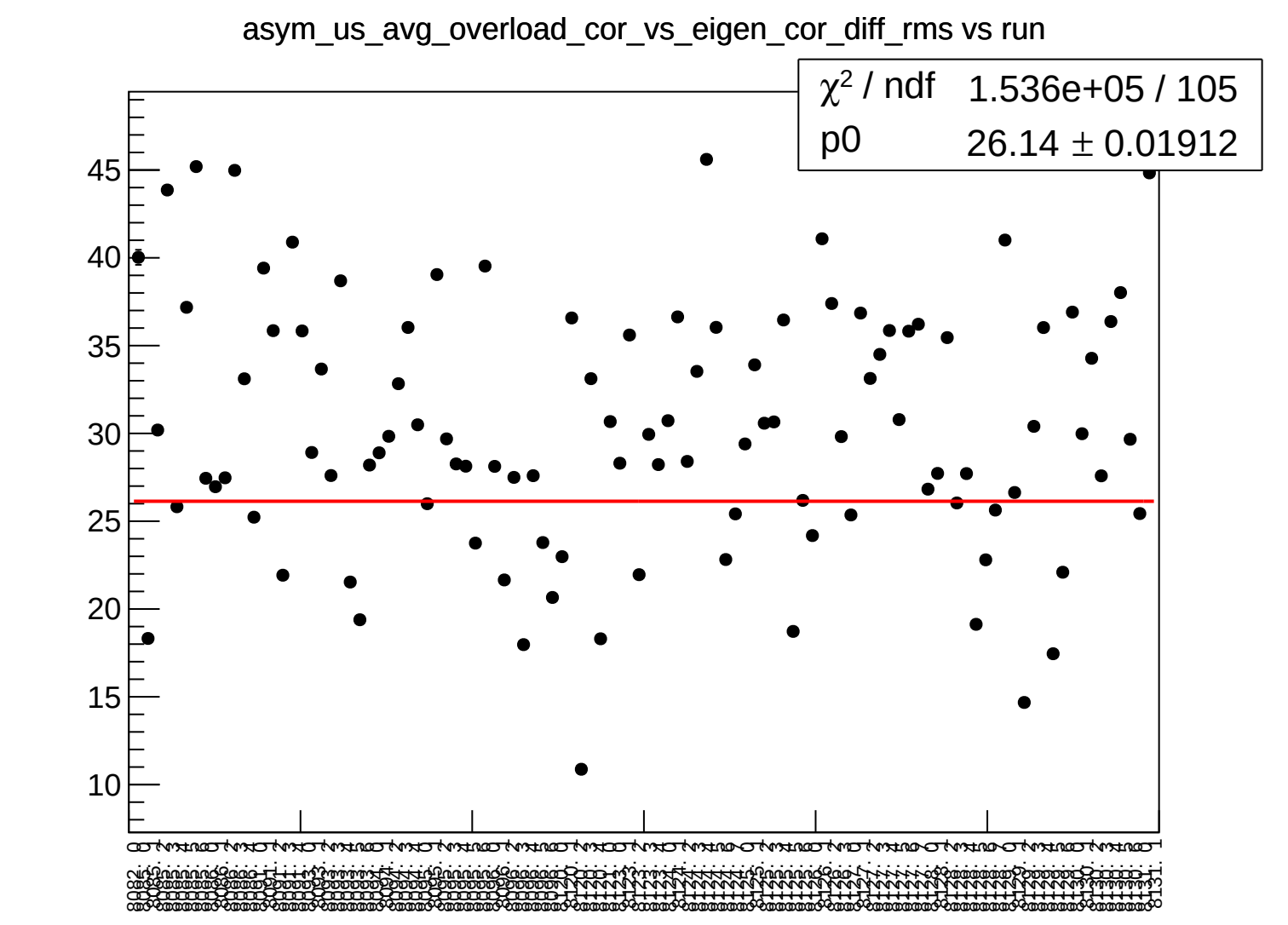

asym_us_avg_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 99.41 / 105
p0 −0.04398 ± 0.02703
pull
Entries 106
Mean 87.05
Std Dev 204.4

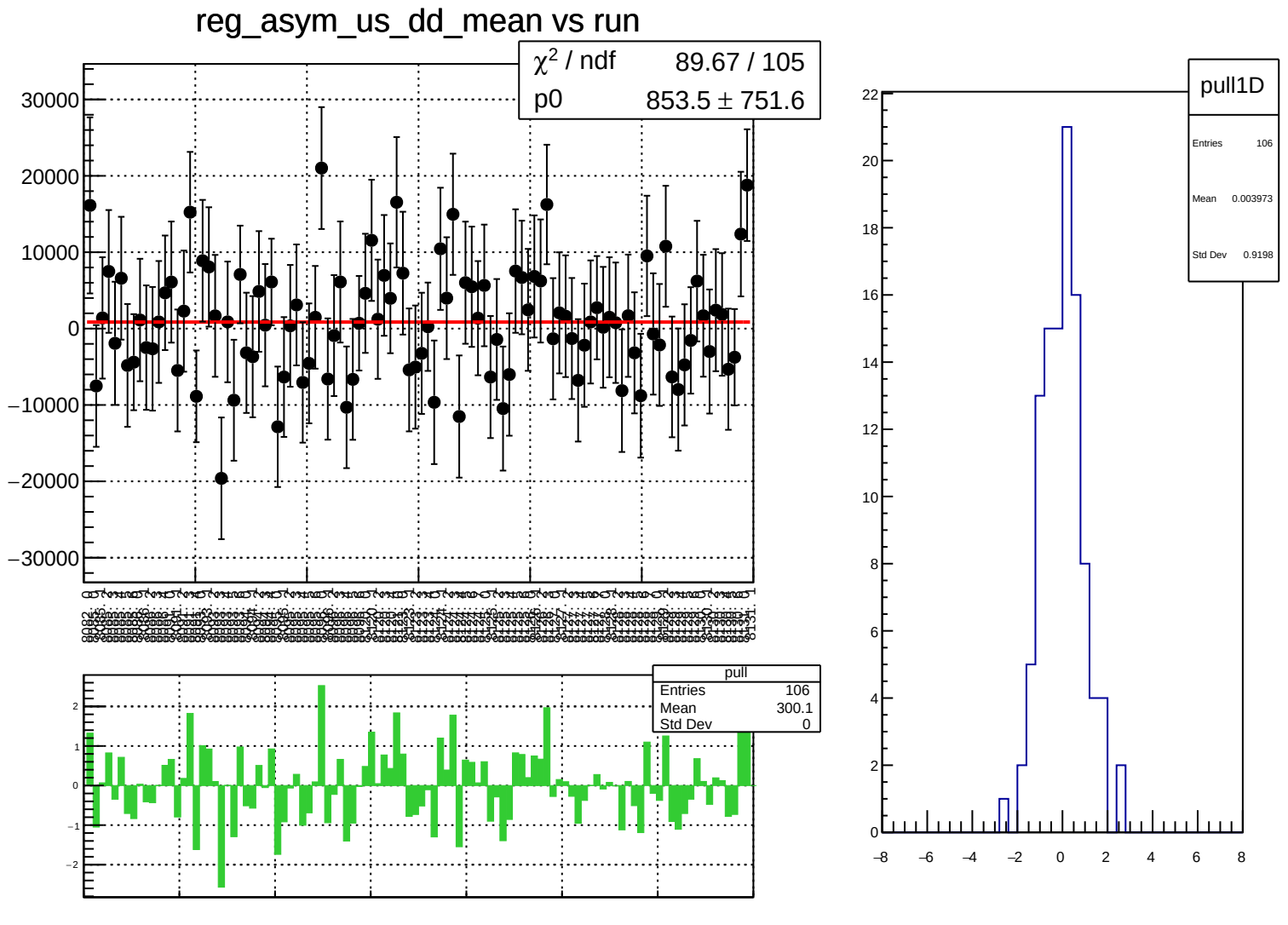

pull1D
Entries 106
Mean −0.002425
Std Dev 0.9684

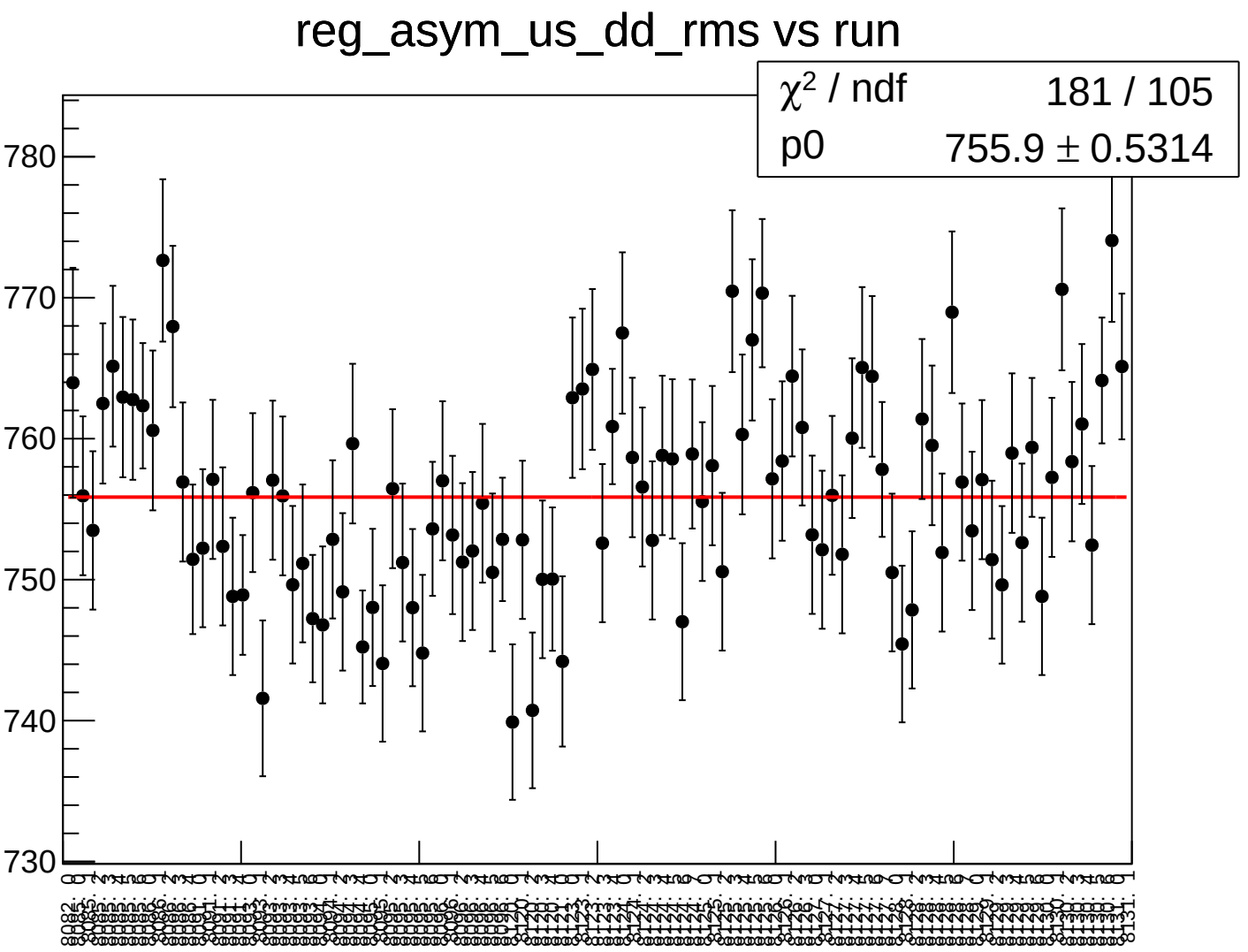

asym_us_avg_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.536e+05 / 105
p0 26.14 ± 0.01912
45
40
35
30
25
20
15
10

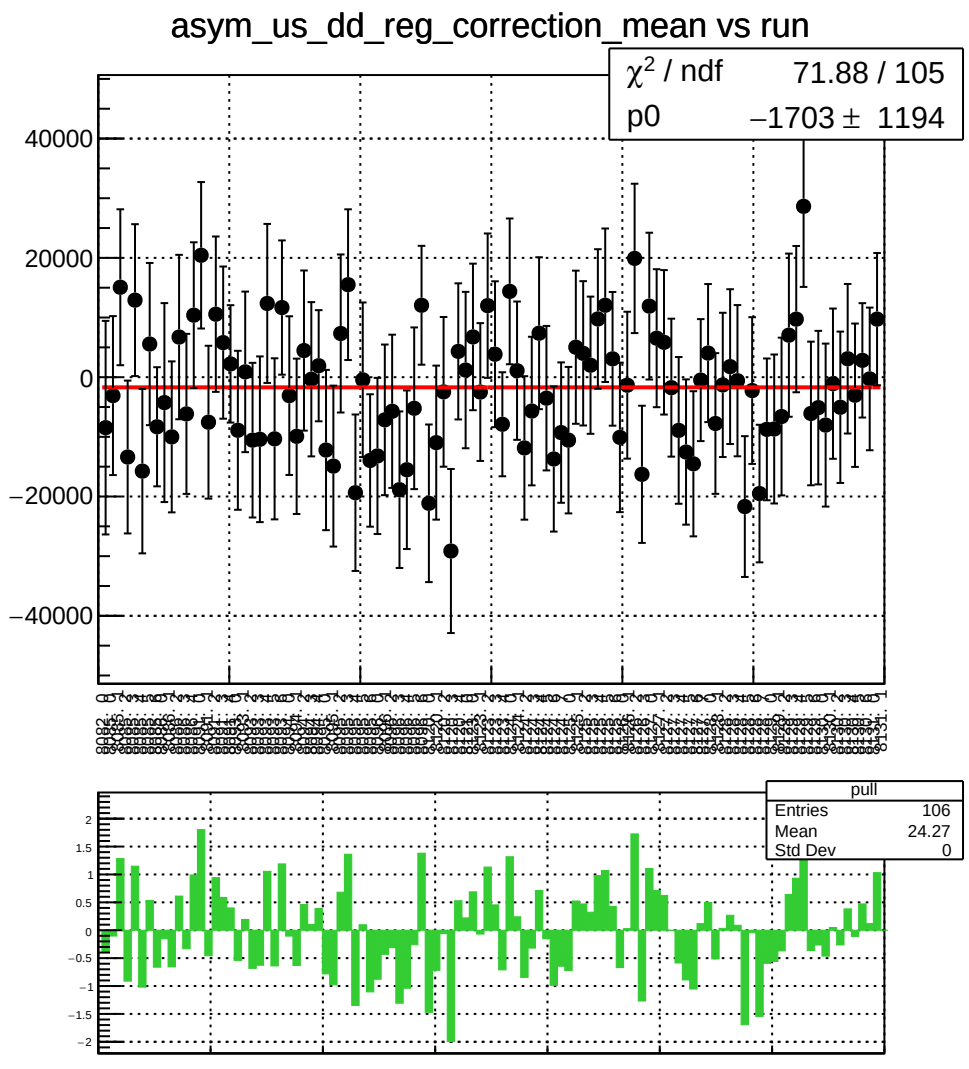

asym_us_avg_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.41 / 105
p0 −0.04398 ± 0.02703
pull
Entries 106
Mean 87.05
Std Dev 204.4

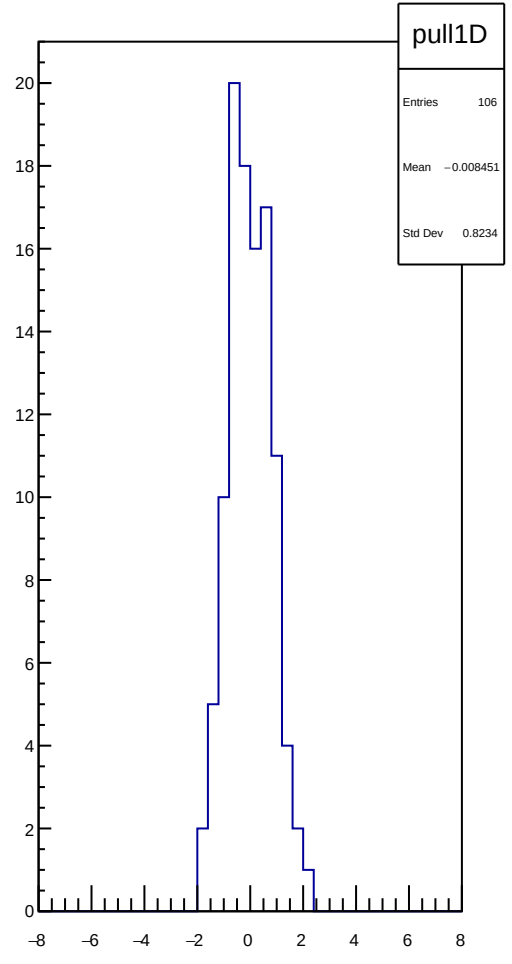

pull1D
Entries 106
Mean −0.002425
Std Dev 0.9684

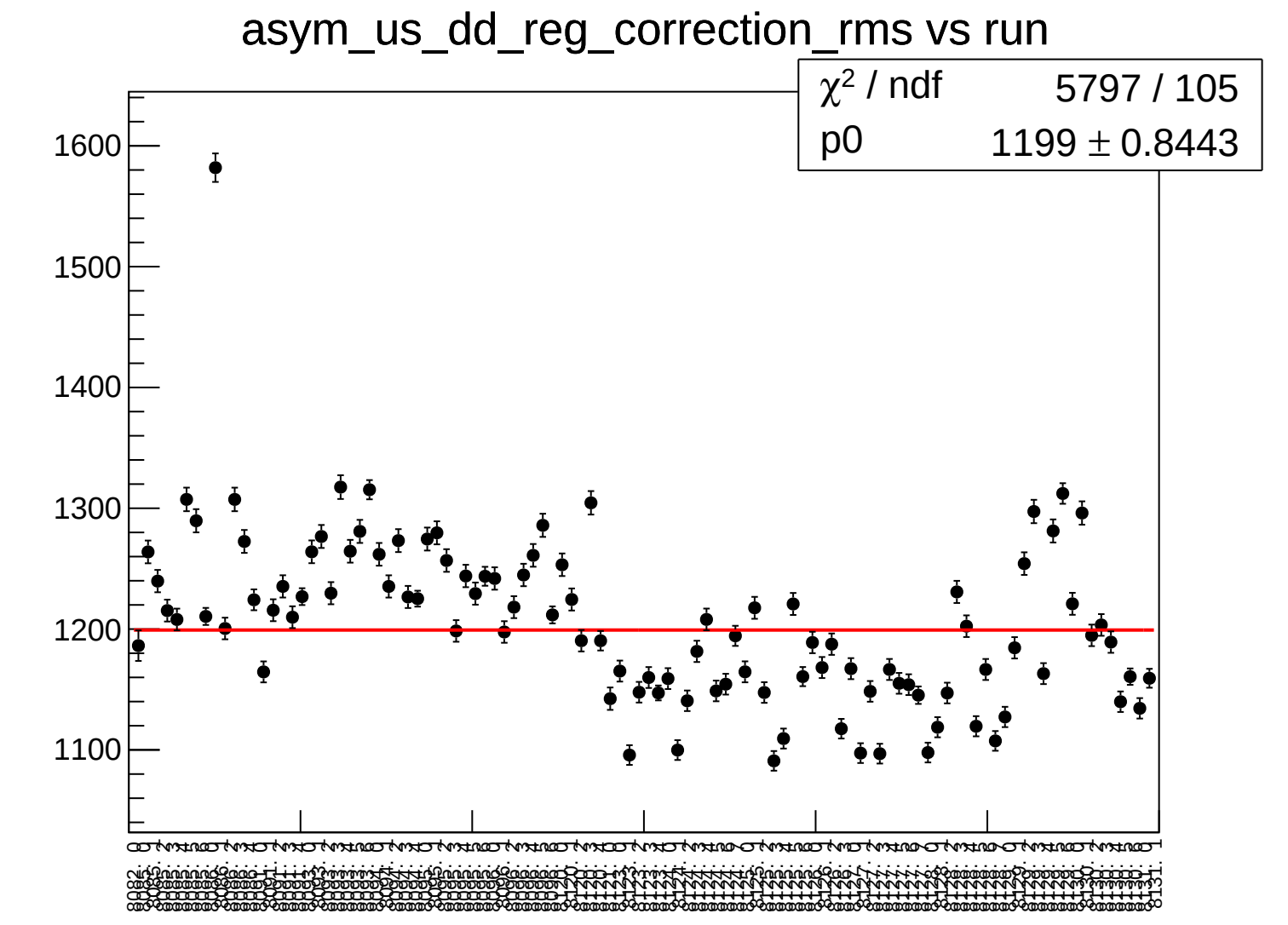

asym_us_avg_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.536e+05 / 105
p0 26.14 ± 0.01912
45
40
35
30
25
20
15
10

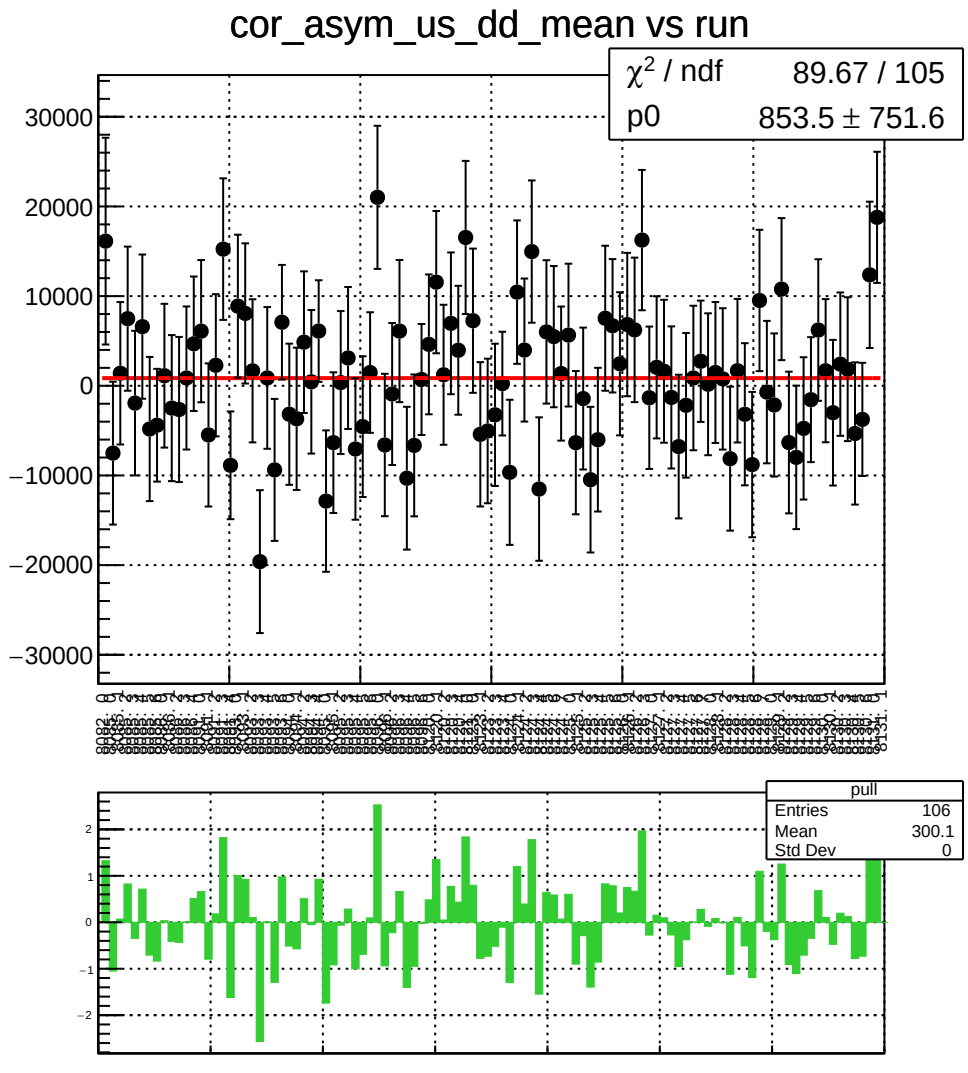

reg_asym_us_dd_mean vs run
χ² / ndf 89.67 / 105
p0 853.5 ± 751.6
pull
Entries 106
Mean 300.1
Std Dev 0
pull1D
Entries 106
Mean 0.003973
Std Dev 0.9198

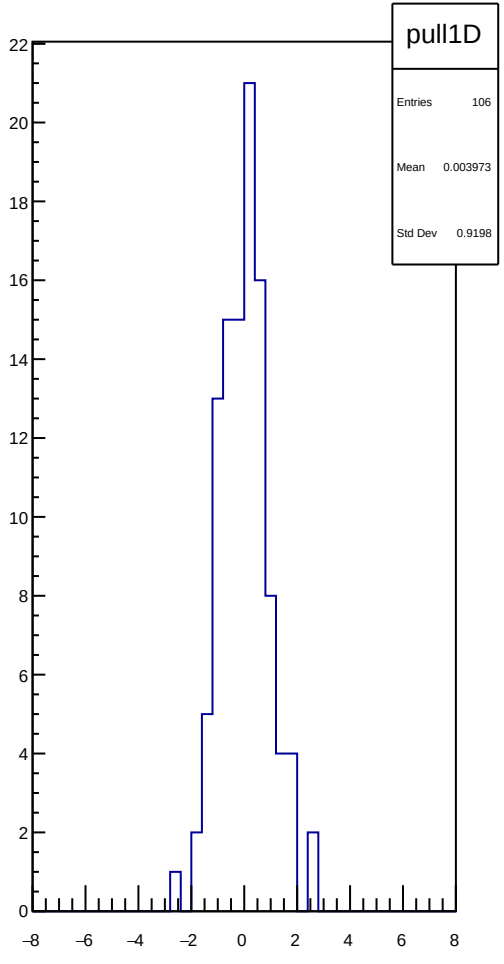

reg_asym_us_dd_rms vs run
$\chi^2$ / ndf 181 / 105
p0 755.9 ± 0.5314
780
770
760
750
740
730

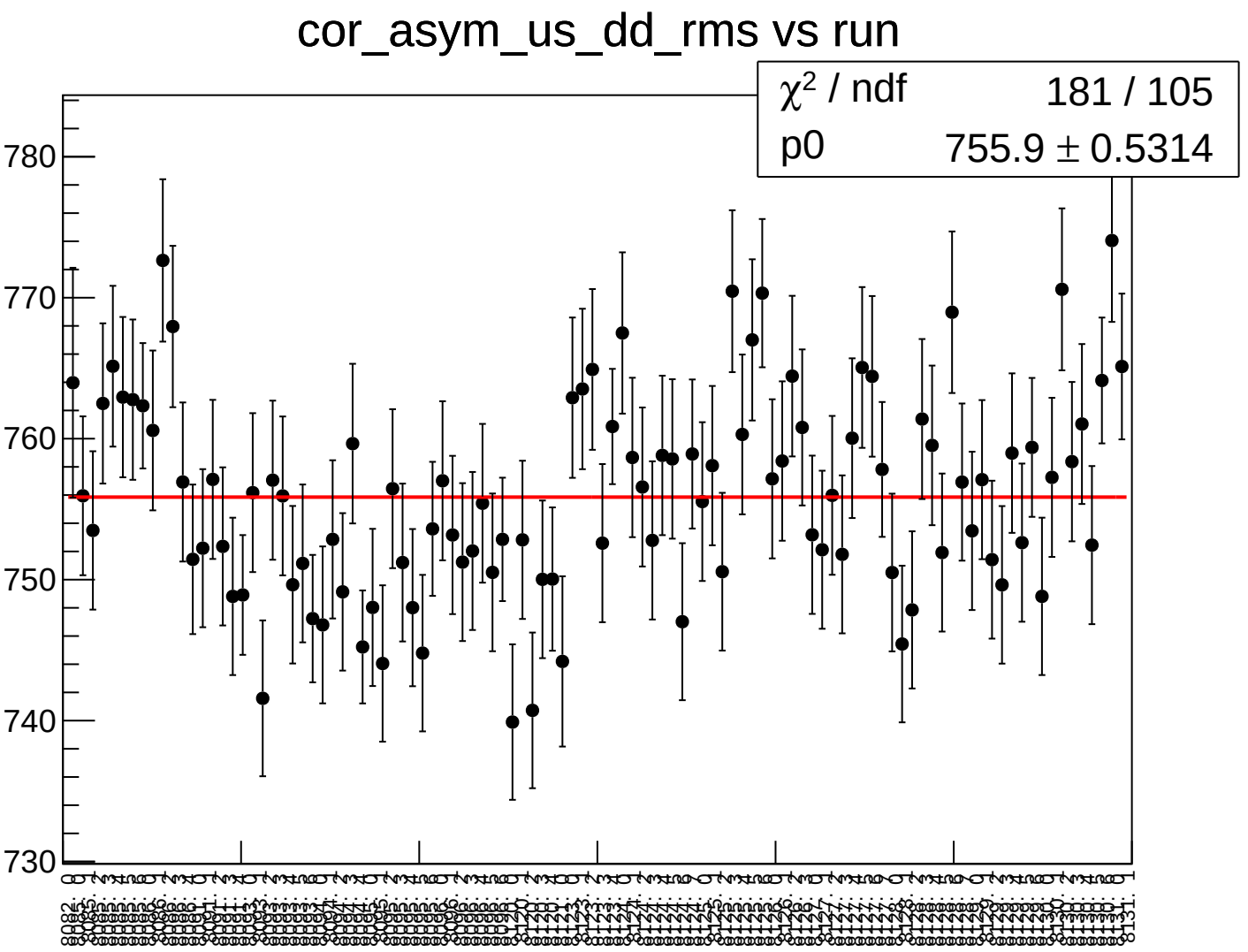

asym_us_dd_reg_correction_mean vs run
χ² / ndf 71.88 / 105
p0 −1703 ± 1194
40000
20000
0
−20000
−40000
pull
Entries 106
Mean 24.27
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

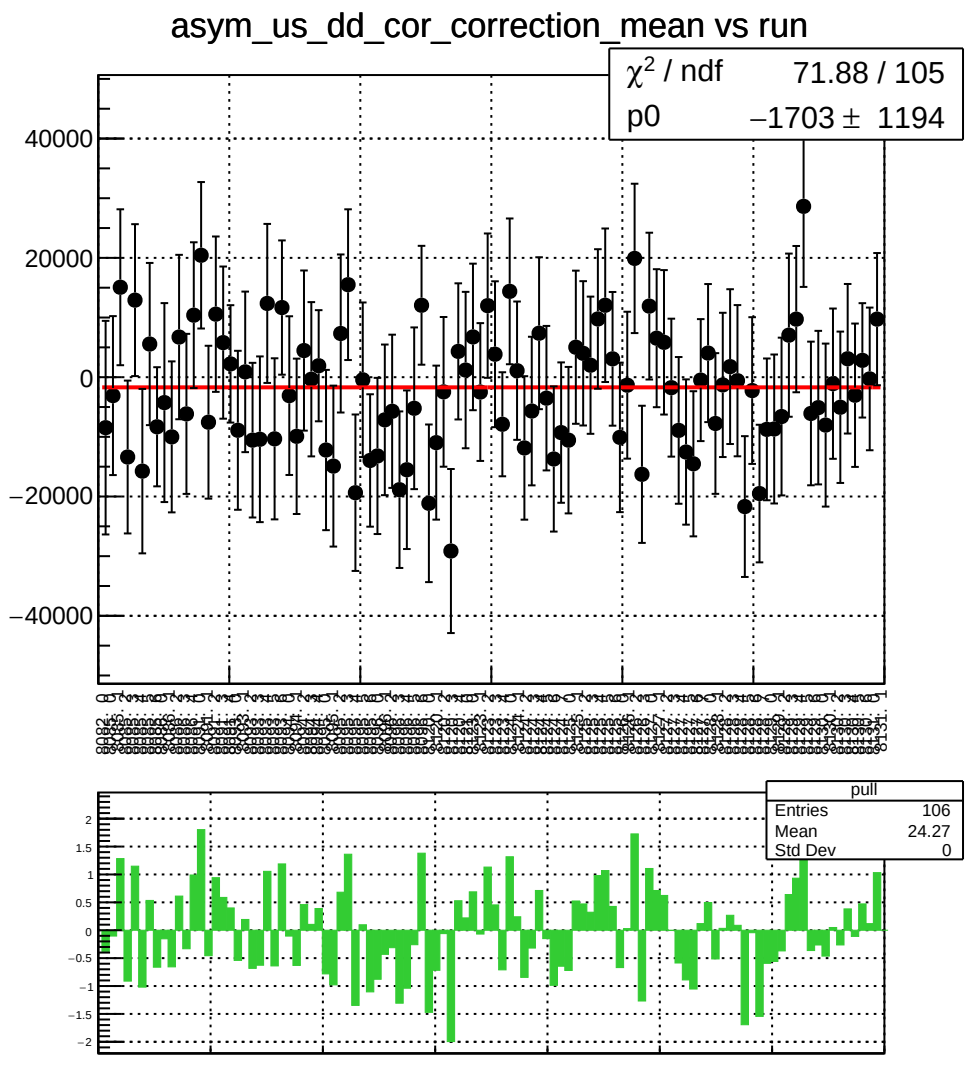

pull1D
Entries 106
Mean −0.008451
Std Dev 0.8234
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

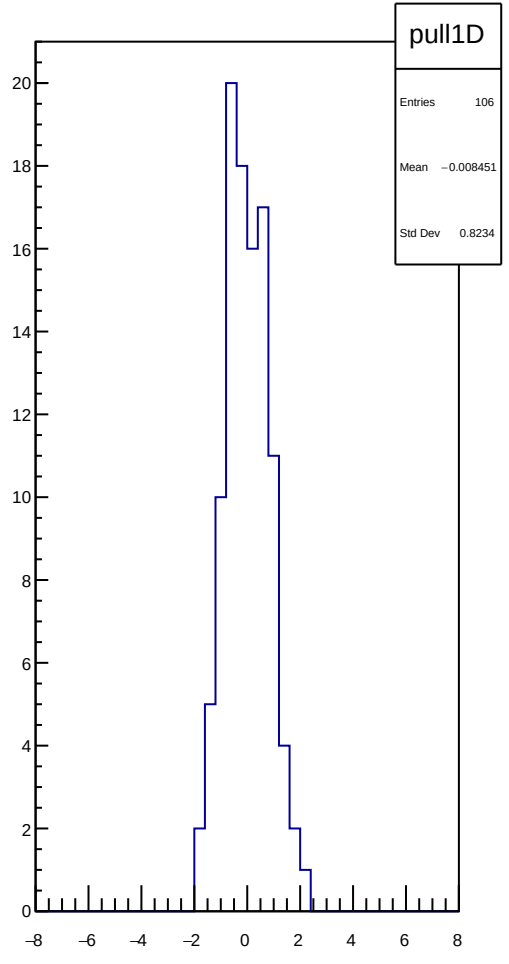

asym_us_dd_reg_correction_rms vs run
χ² / ndf 5797 / 105
p0 1199 ± 0.8443
1600
1500
1400
1300
1200
1100

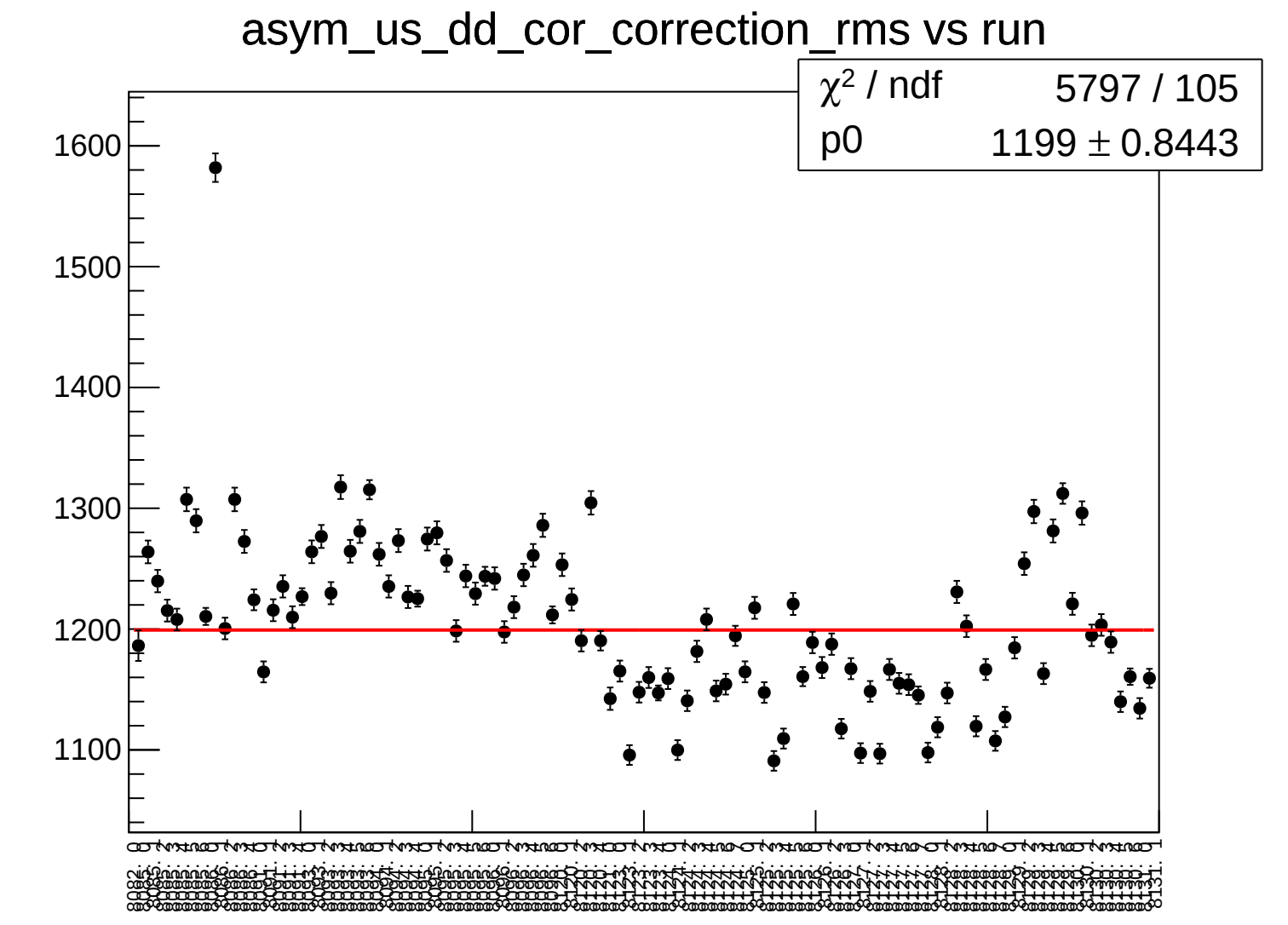

cor_asym_us_dd_mean vs run
χ² / ndf 89.67 / 105
p0 853.5 ± 751.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 106
Mean 300.1
Std Dev 0
2
1
0
−1
−2

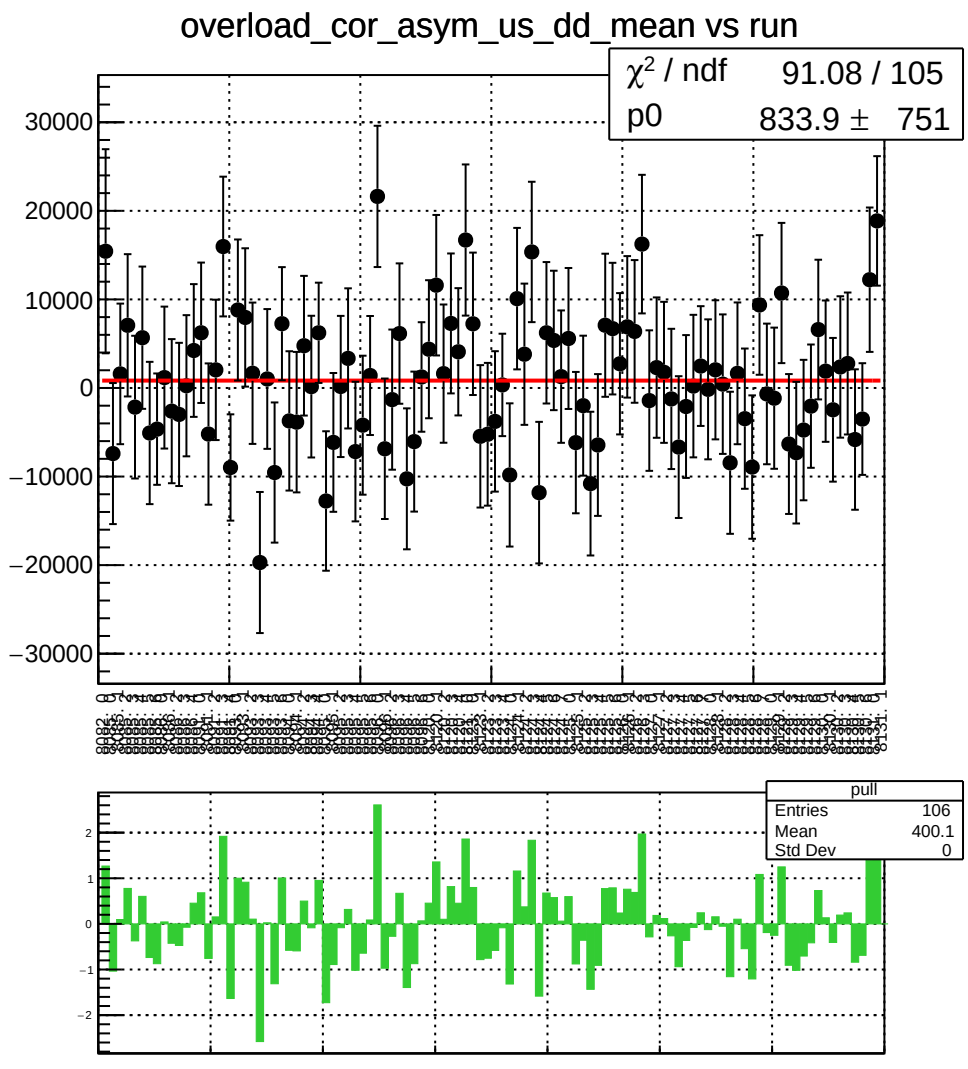

pull1D
Entries 106
Mean 0.003973
Std Dev 0.9198
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

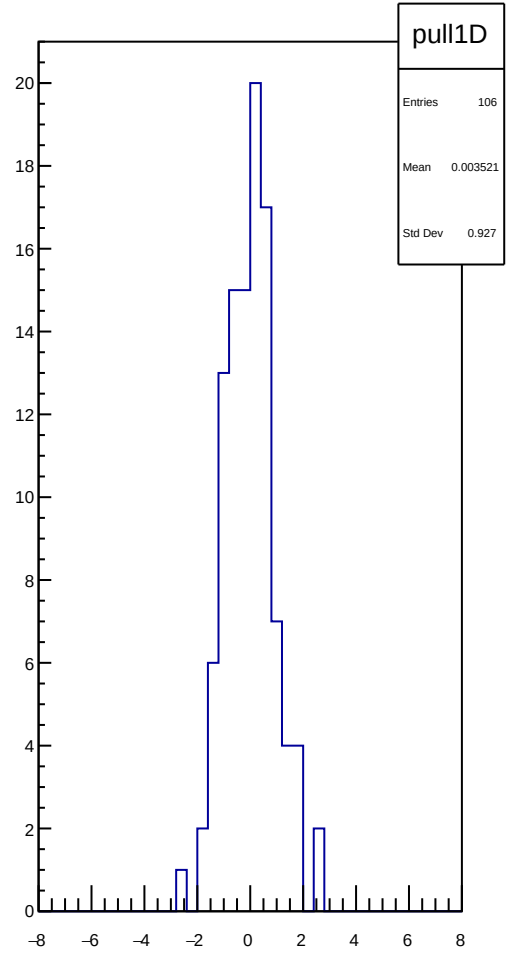

cor_asym_us_dd_rms vs run
$\chi^2$ / ndf 181 / 105
p0 755.9 ± 0.5314
780
770
760
750
740
730

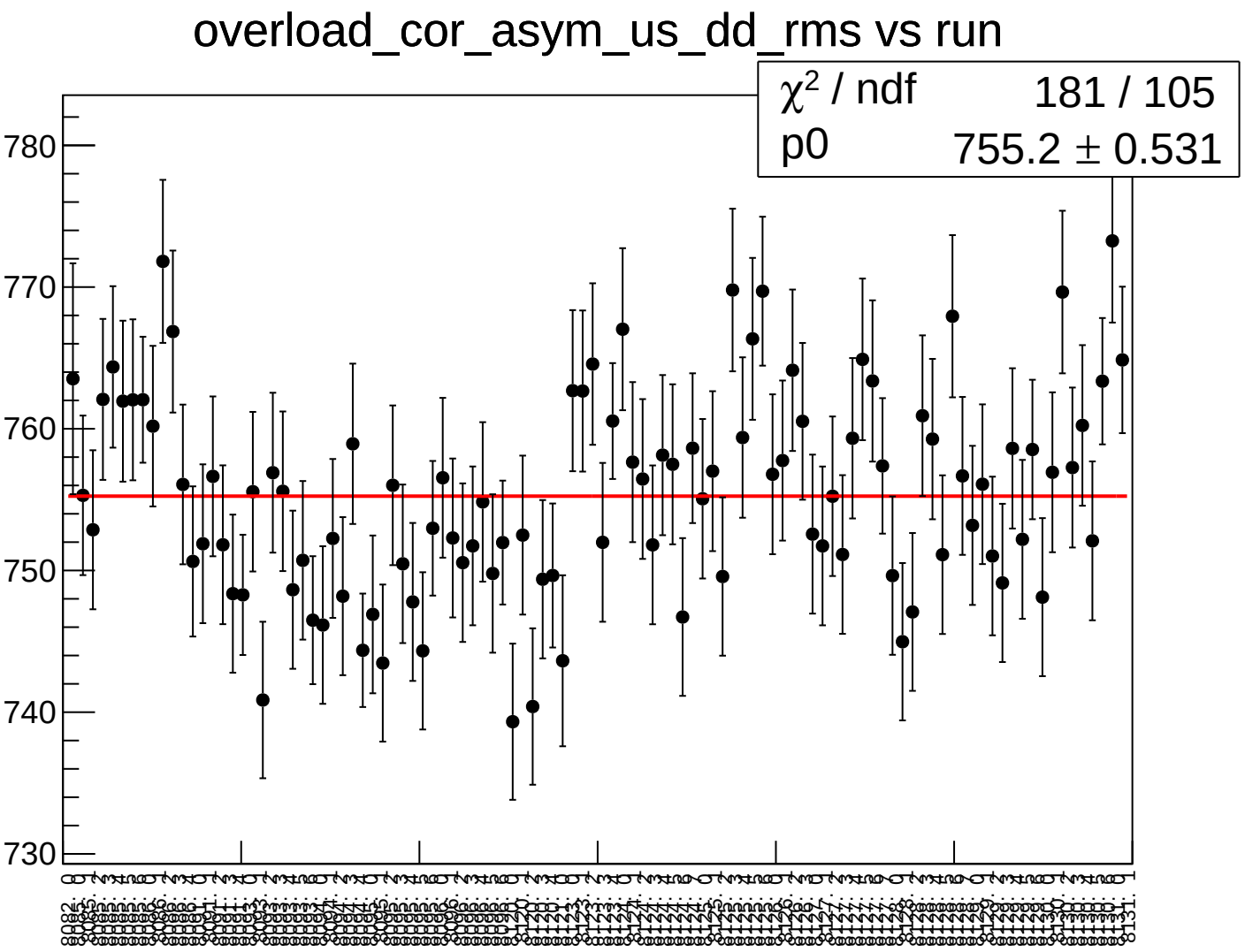

asym_us_dd_cor_correction_mean vs run
χ² / ndf 71.88 / 105
p0 −1703 ± 1194
40000
20000
0
−20000
−40000
pull
Entries 106
Mean 24.27
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

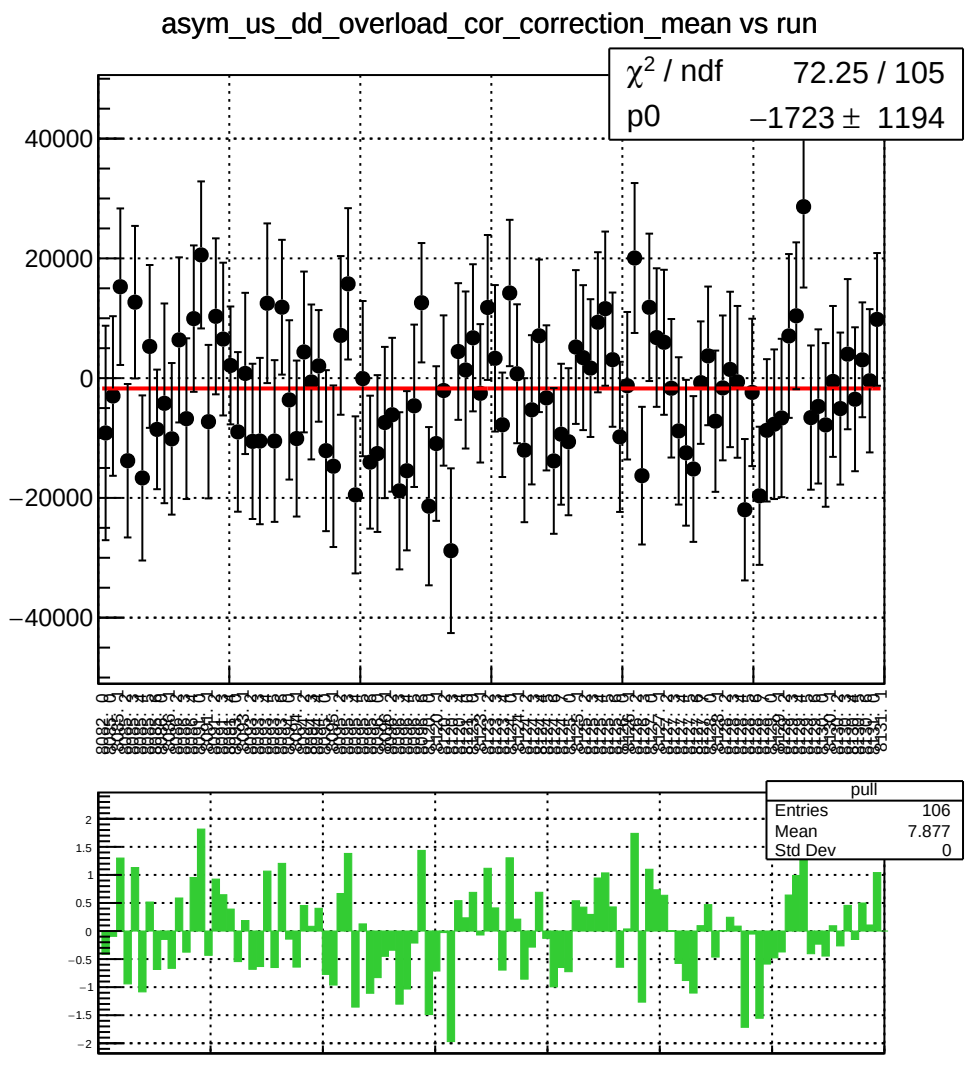

pull1D
Entries 106
Mean −0.008451
Std Dev 0.8234
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

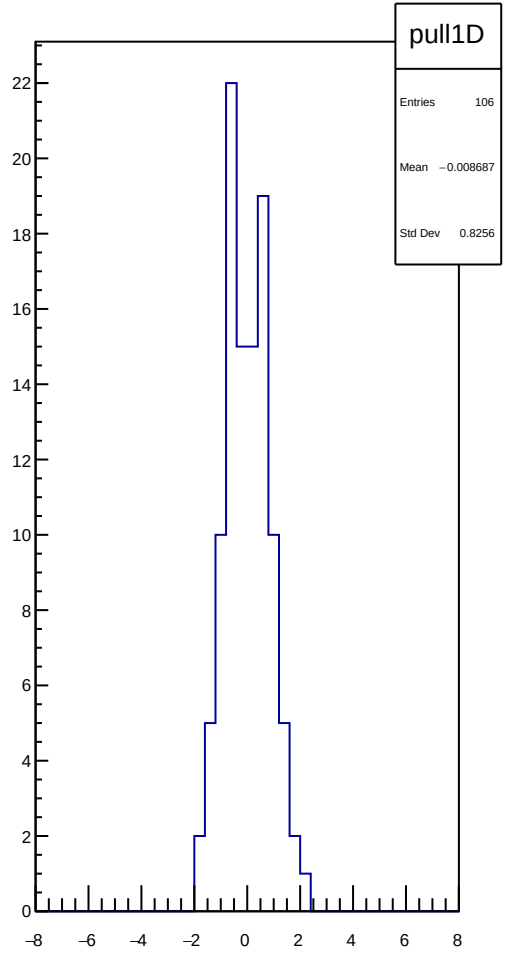

asym_us_dd_cor_correction_rms vs run
χ² / ndf 5797 / 105
p0 1199 ± 0.8443
1600
1500
1400
1300
1200
1100


overload_cor_asym_us_dd_mean vs run
χ² / ndf 91.08 / 105
p0 833.9 ± 751
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 106
Mean 400.1
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 106
Mean 0.003521
Std Dev 0.927
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


overload_cor_asym_us_dd_rms vs run
χ² / ndf 181 / 105
p0 755.2 ± 0.531
780
770
760
750
740
730


asym_us_dd_overload_cor_correction_mean vs run
χ² / ndf 72.25 / 105
p0 −1723 ± 1194
40000
20000
0
−20000
−40000
pull
Entries 106
Mean 7.877
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 106
Mean −0.008687
Std Dev 0.8256
22
20
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14
12
10
8
6
4
2
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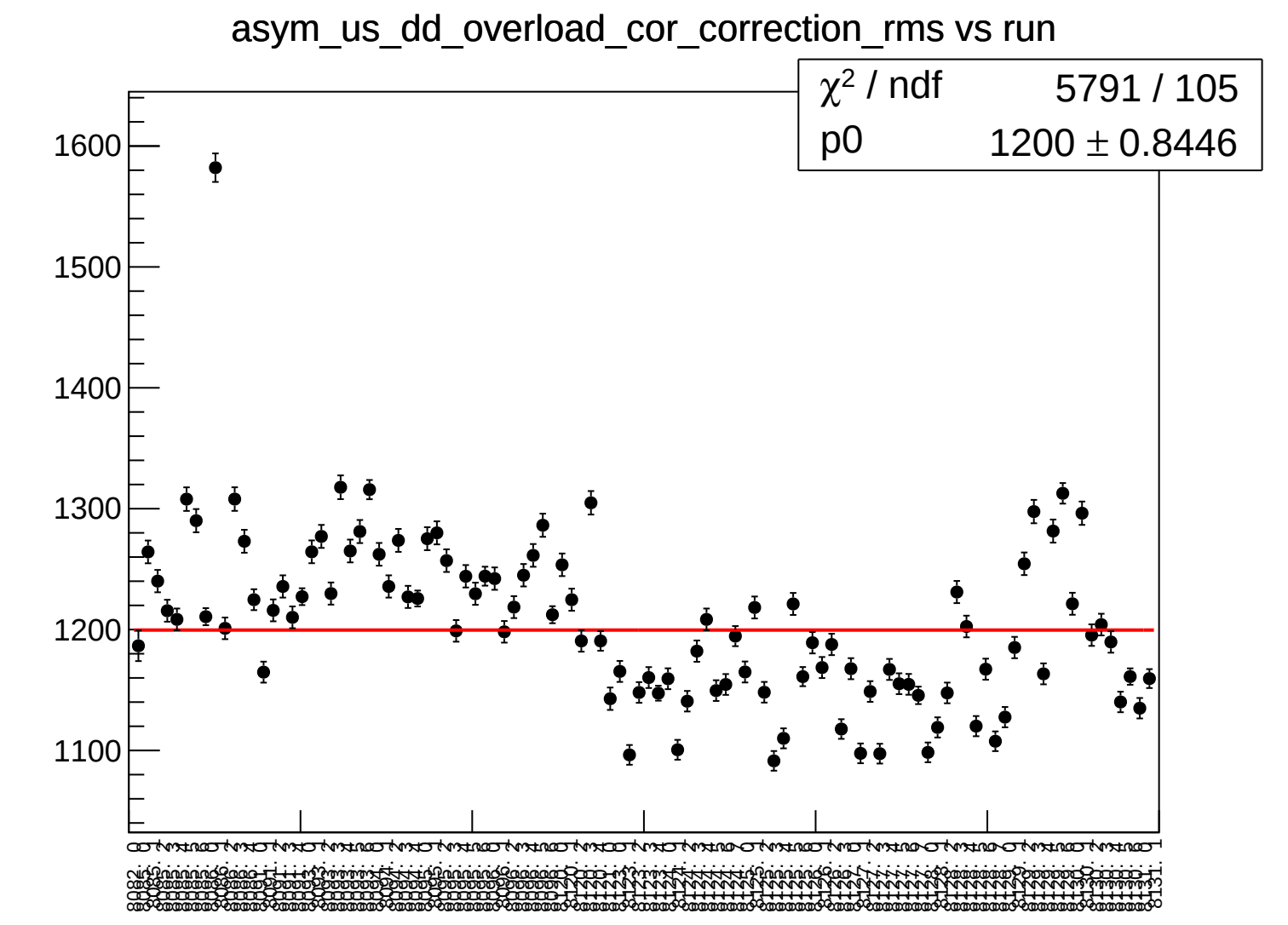
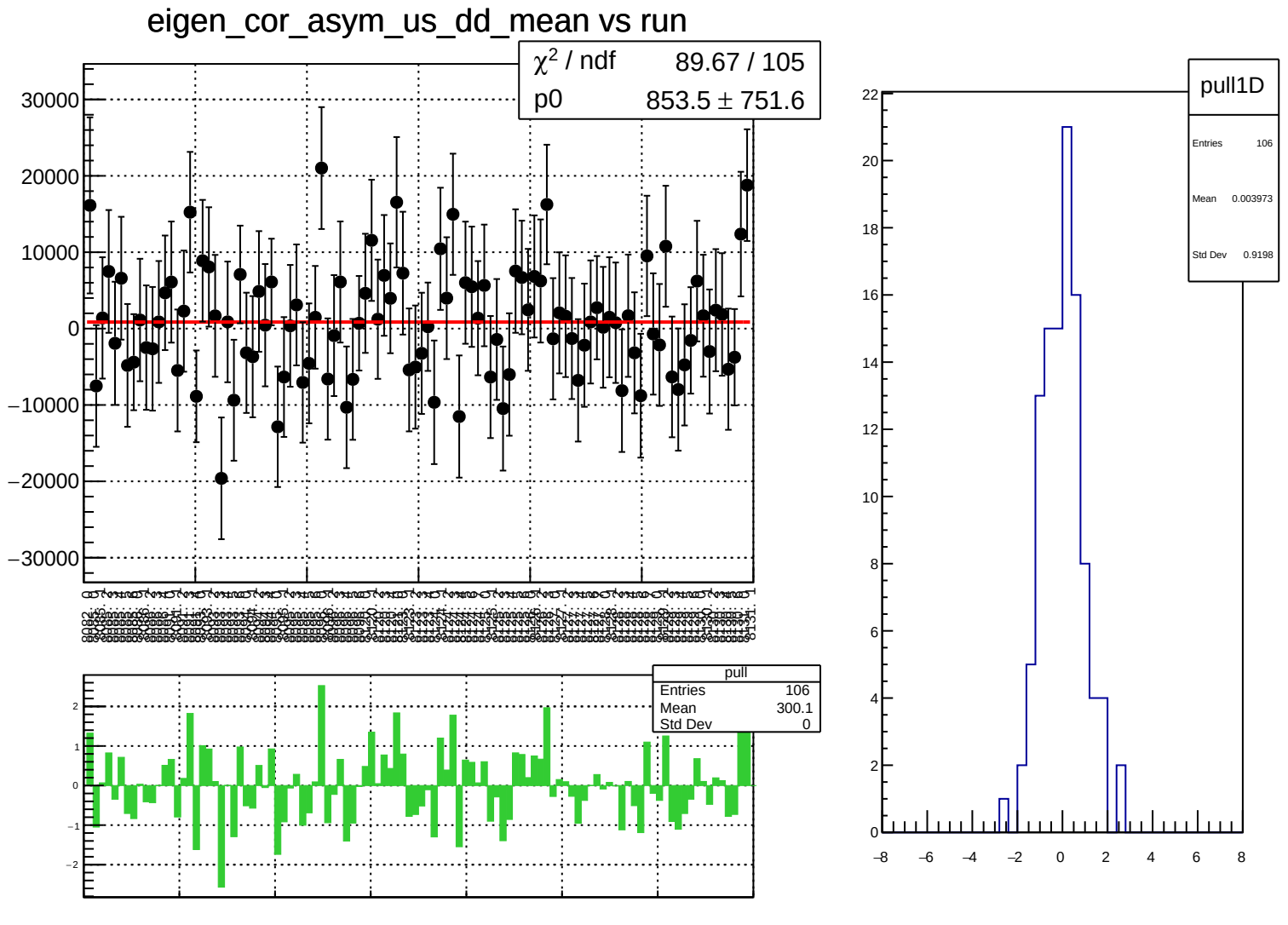
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_overload_cor_correction_rms vs run
χ² / ndf 5791 / 105
p0 1200 ± 0.8446
1600
1500
1400
1300
1200
1100


eigen_cor_asym_us_dd_mean vs run
χ² / ndf 89.67 / 105
p0 853.5 ± 751.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 106
Mean 300.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 106
Mean 0.003973
Std Dev 0.9198
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
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2
4
6
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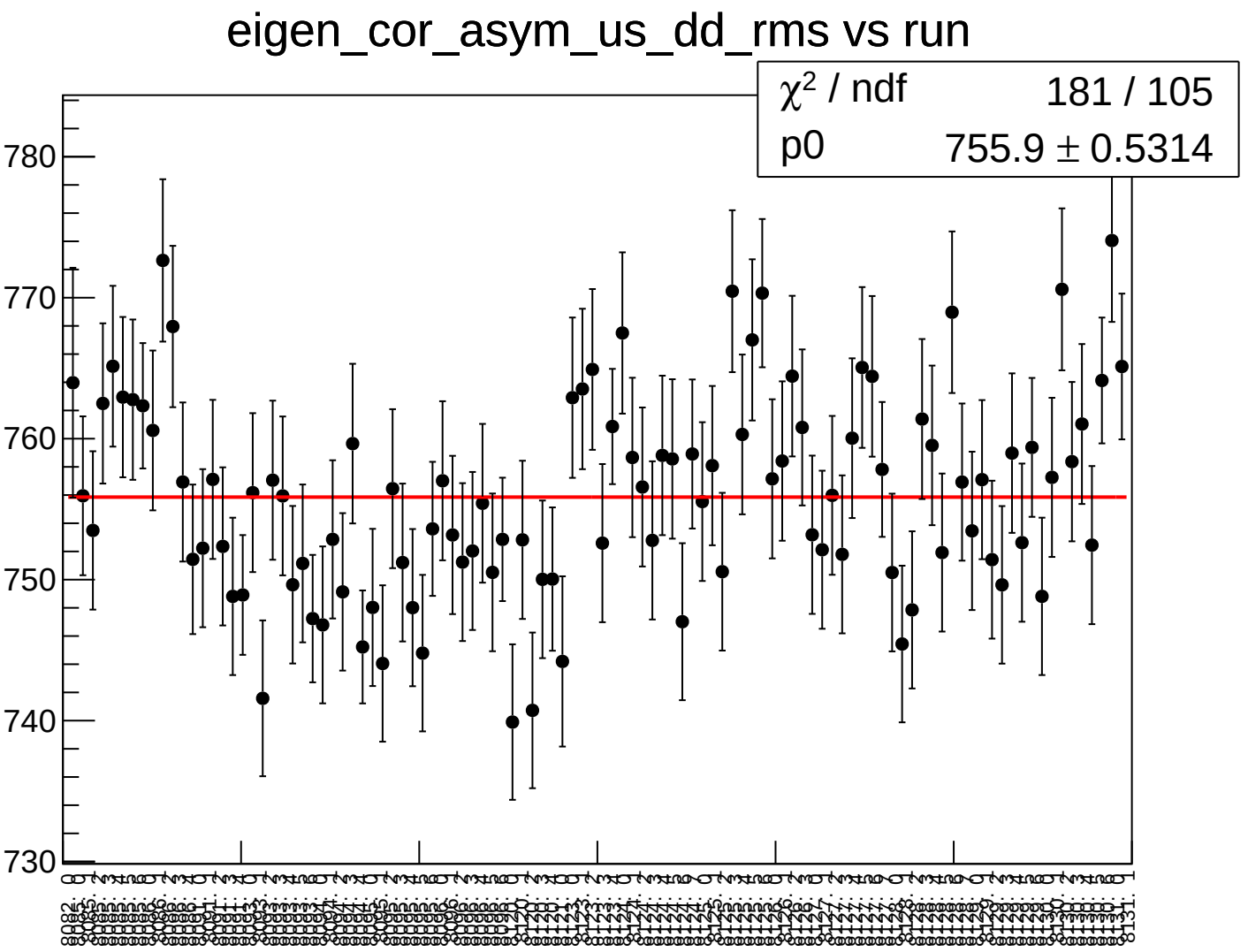
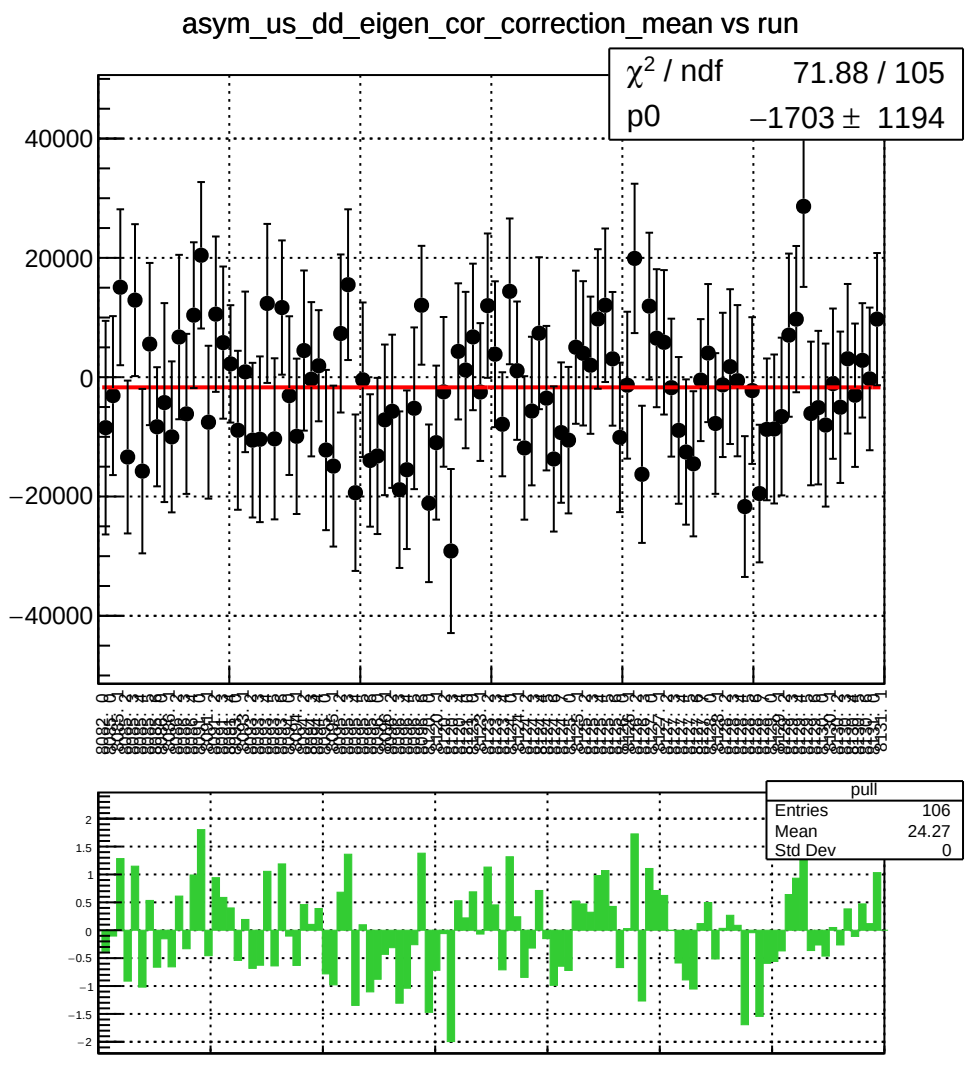
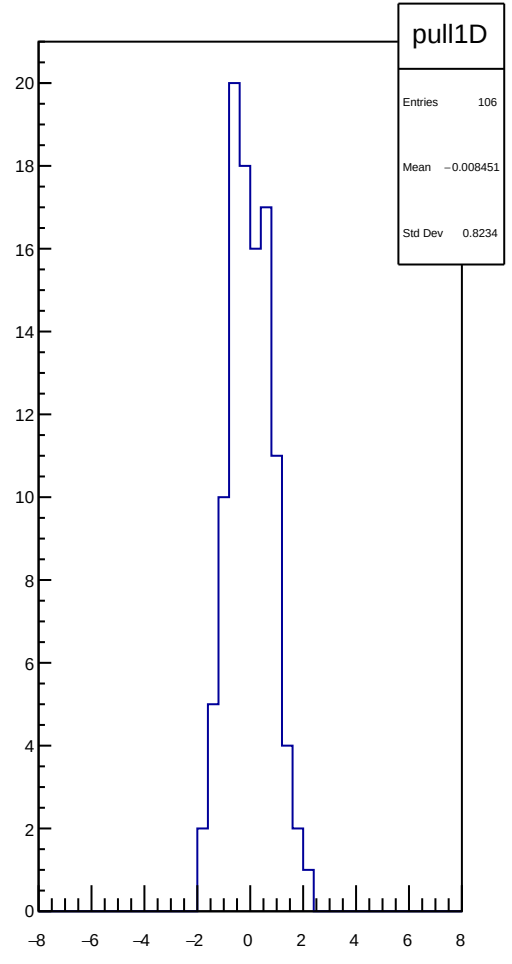
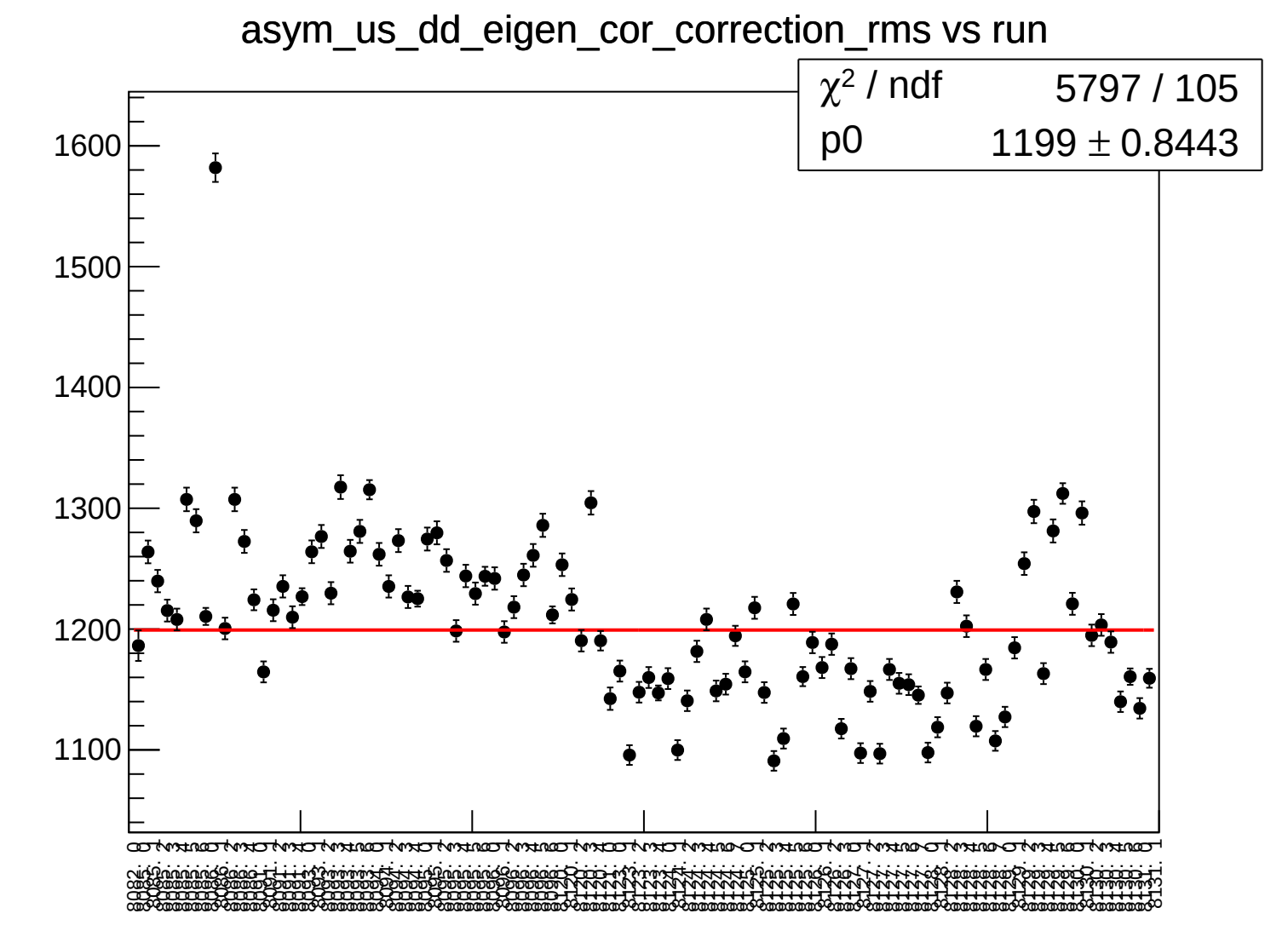
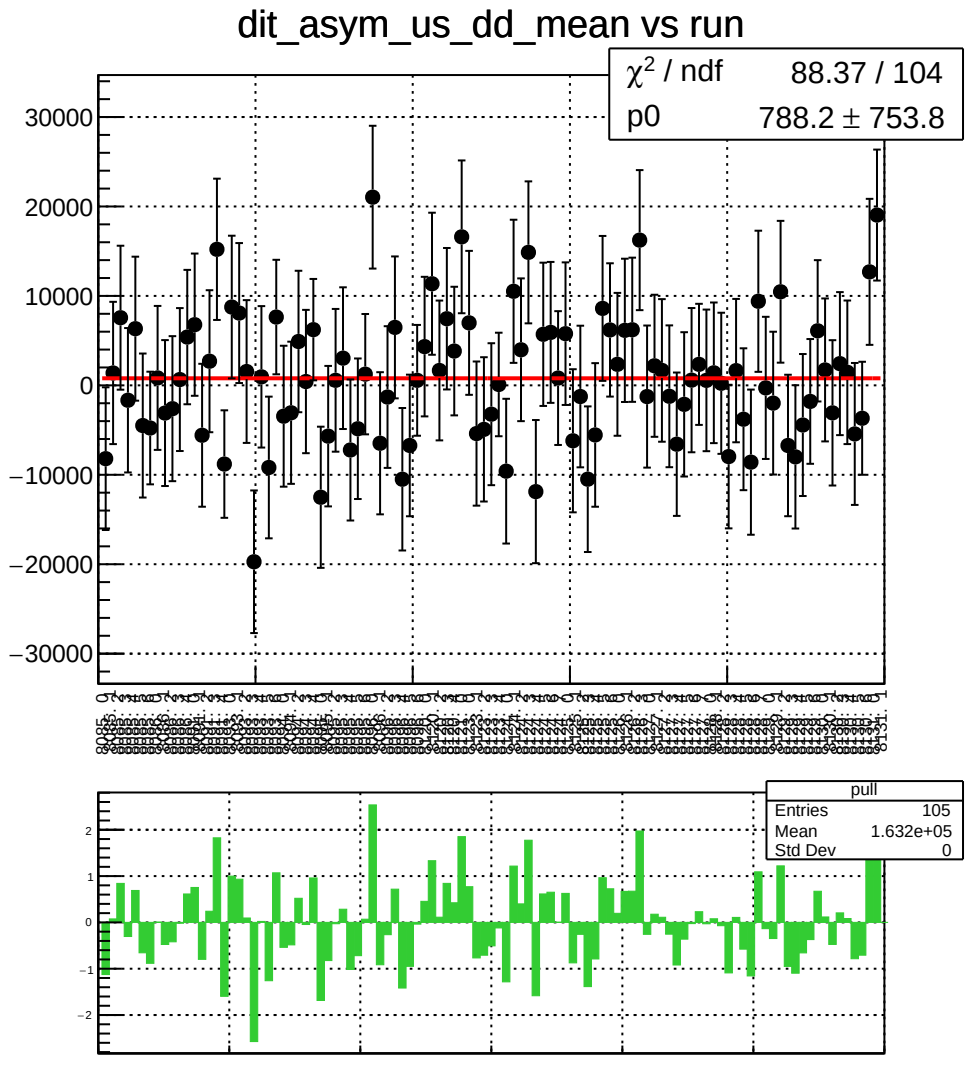
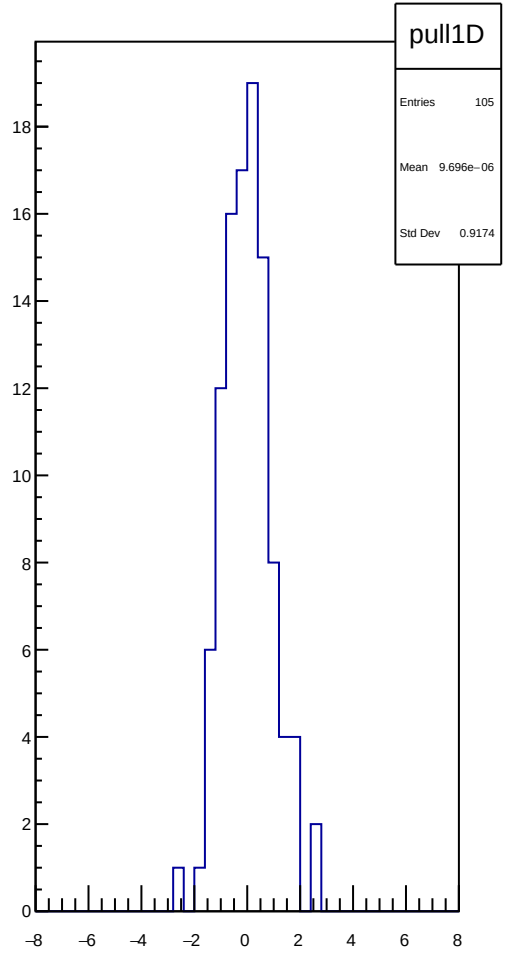

eigen_cor_asym_us_dd_rms vs run
χ² / ndf 181 / 105
p0 755.9 ± 0.5314
780
770
760
750
740
730


asym_us_dd_eigen_cor_correction_mean vs run
χ² / ndf 71.88 / 105
p0 −1703 ± 1194
40000
20000
0
−20000
−40000
pull
Entries 106
Mean 24.27
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 106
Mean −0.008451
Std Dev 0.8234
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
$\chi^2$ / ndf 5797 / 105
p0 1199 ± 0.8443
1600
1500
1400
1300
1200
1100


dit_asym_us_dd_mean vs run
χ² / ndf 88.37 / 104
p0 788.2 ± 753.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 105
Mean 1.632e+05
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 105
Mean 9.696e−06
Std Dev 0.9174
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16
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10
8
6
4
2
0
−8
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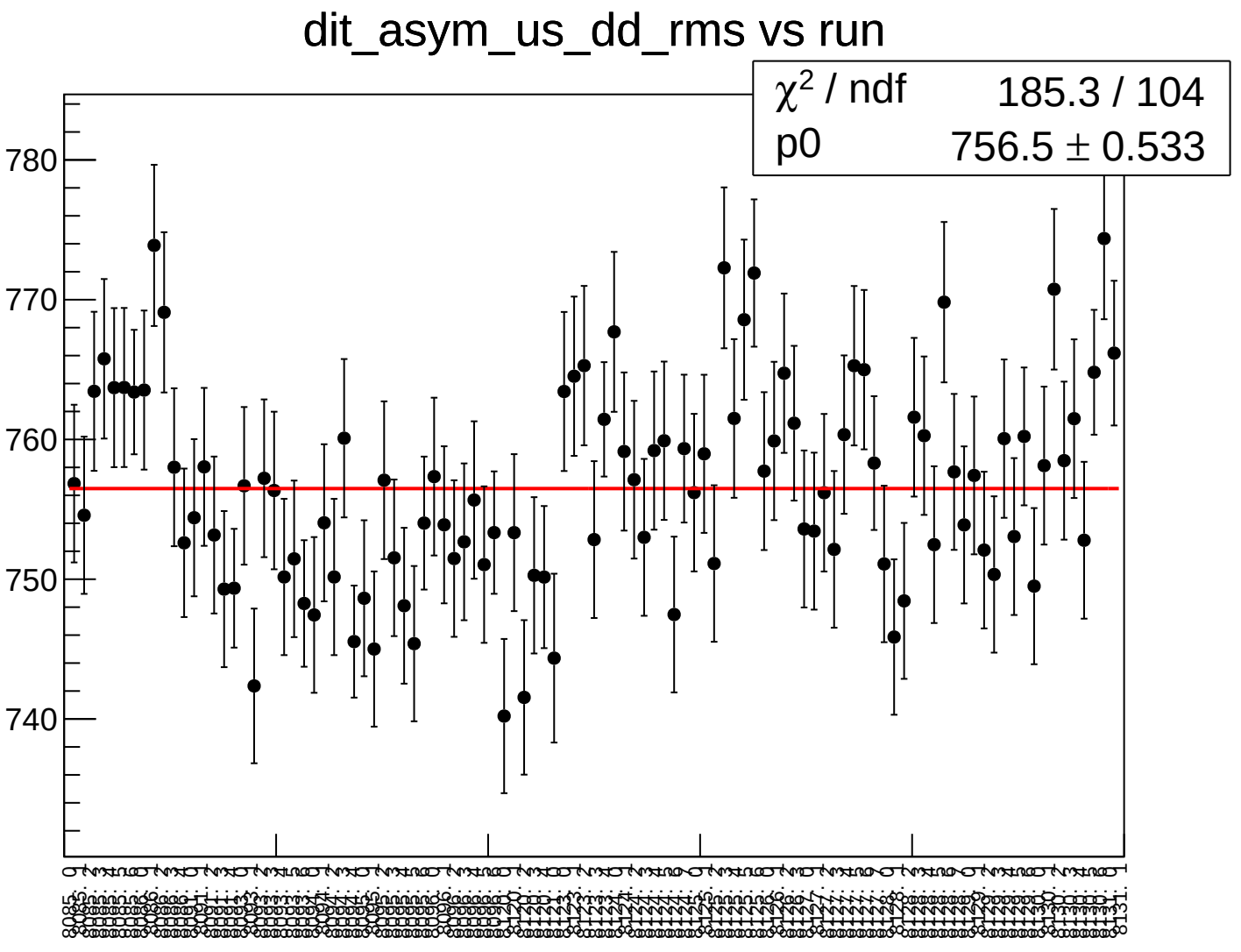
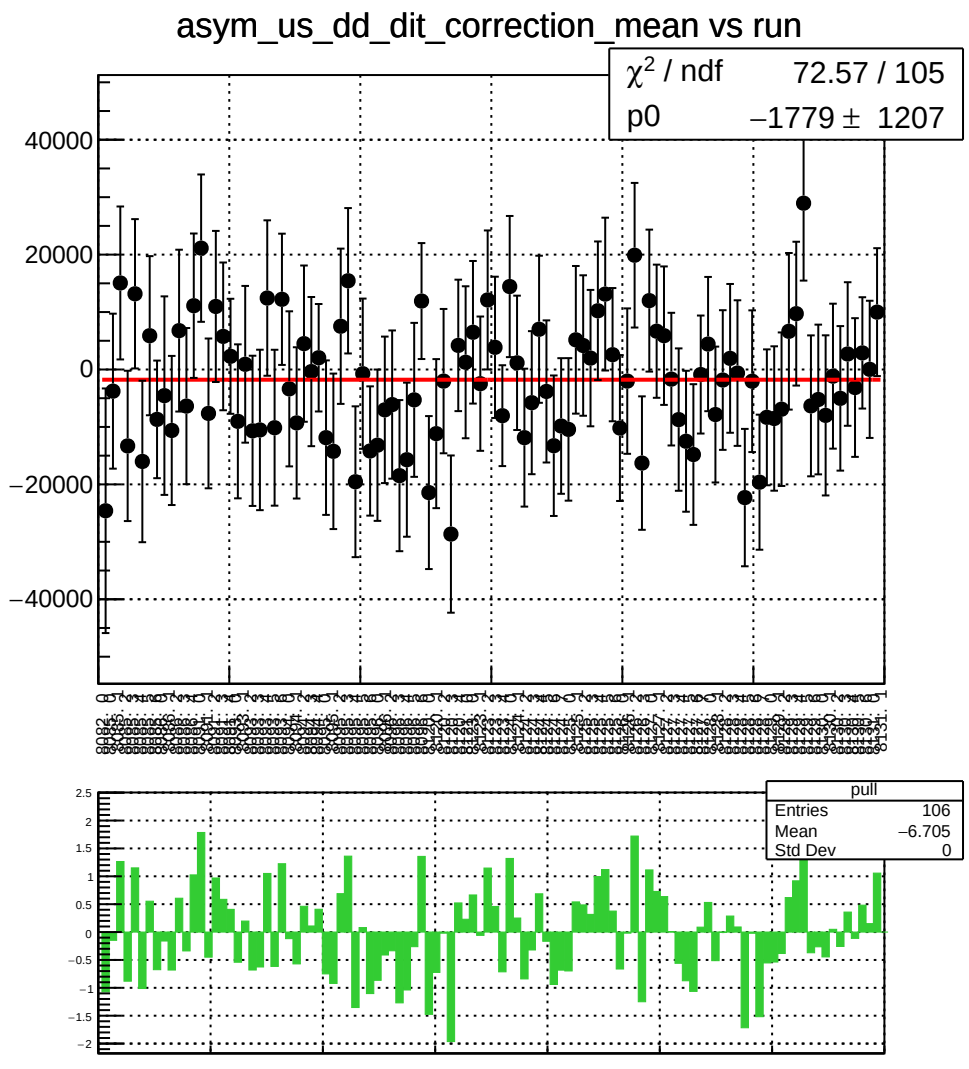
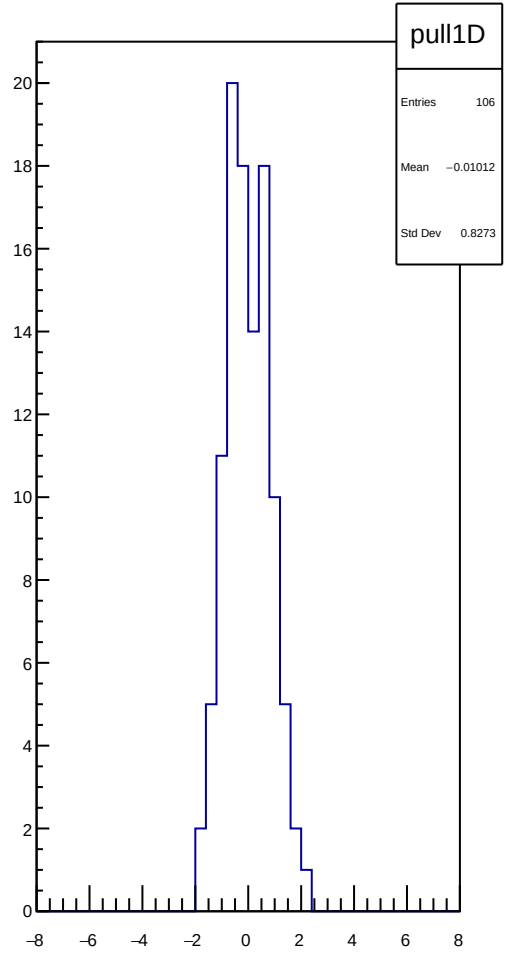
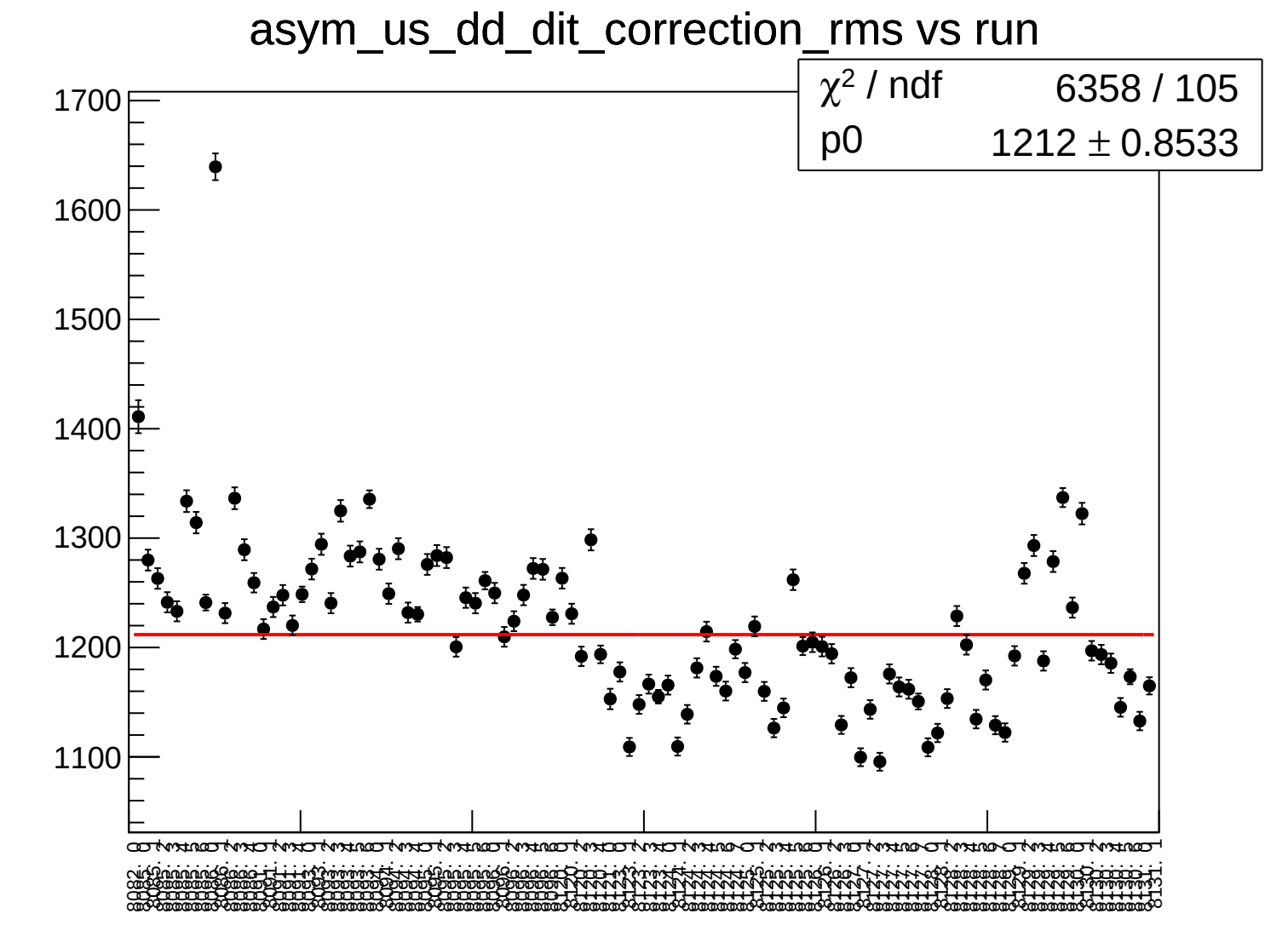
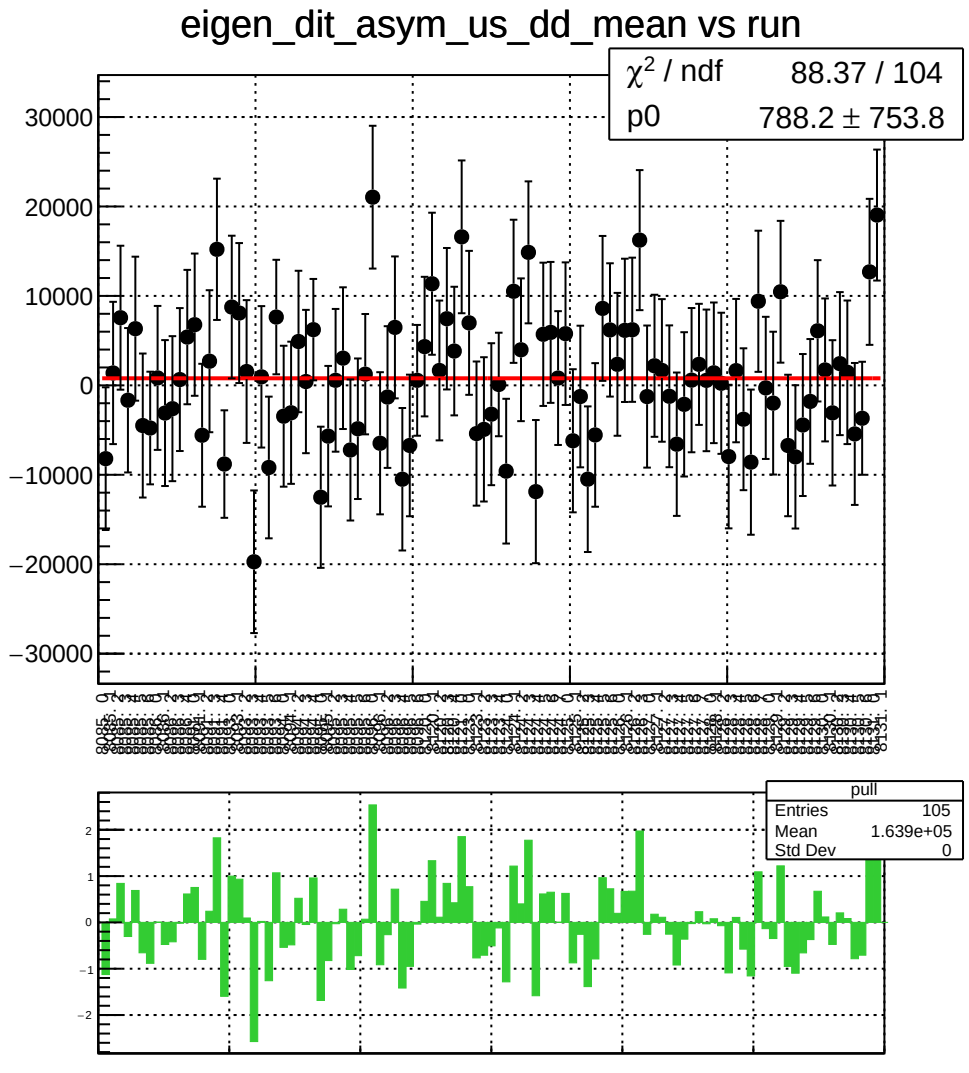
−4
−2
0
2
4
6
8

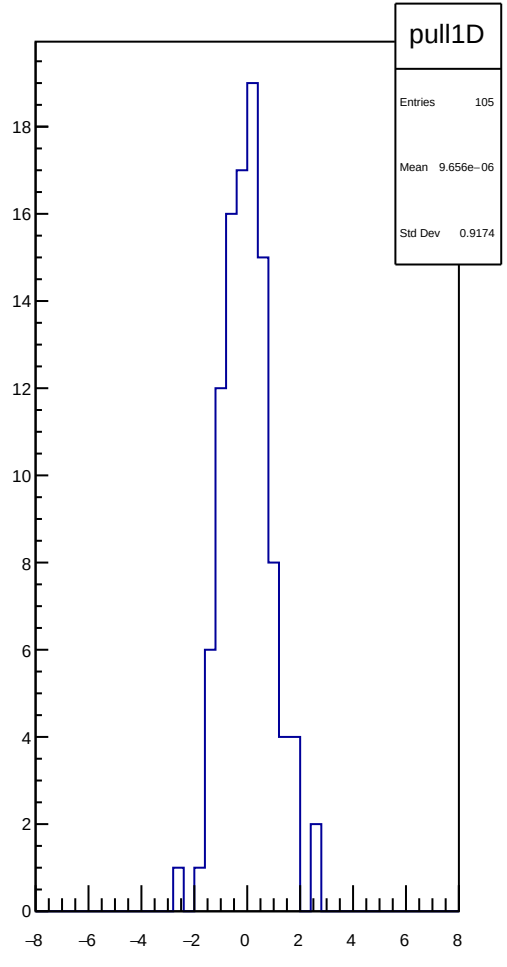

dit_asym_us_dd_rms vs run
χ² / ndf 185.3 / 104
p0 756.5 ± 0.533
780
770
760
750
740


asym_us_dd_dit_correction_mean vs run
χ² / ndf 72.57 / 105
p0 −1779 ± 1207
40000
20000
0
−20000
−40000
pull
Entries 106
Mean −6.705
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 106
Mean −0.01012
Std Dev 0.8273
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 6358 / 105
p0 1212 ± 0.8533
1700
1600
1500
1400
1300
1200
1100


eigen_dit_asym_us_dd_mean vs run
χ² / ndf 88.37 / 104
p0 788.2 ± 753.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 105
Mean 1.639e+05
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 105
Mean 9.656e−06
Std Dev 0.9174
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
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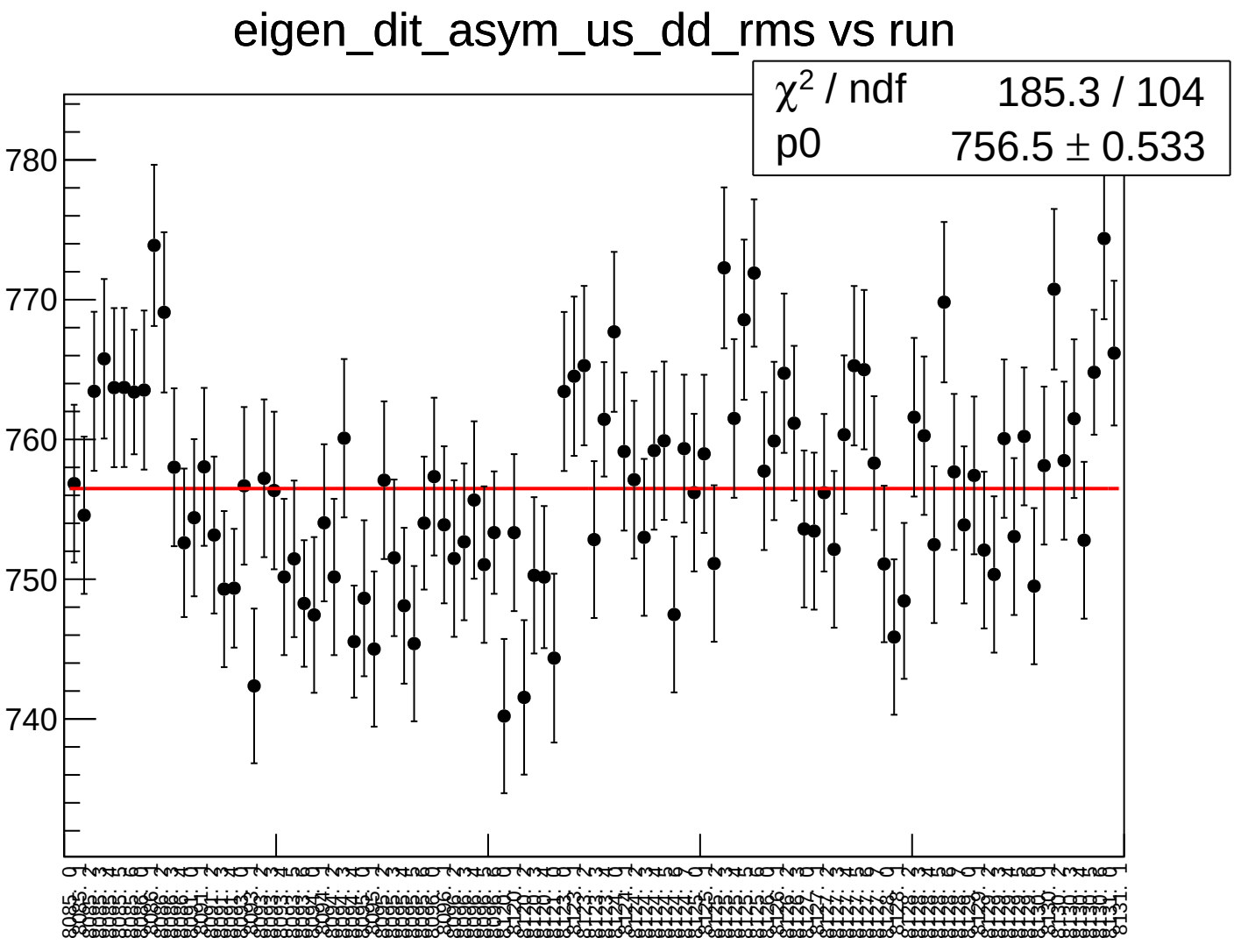
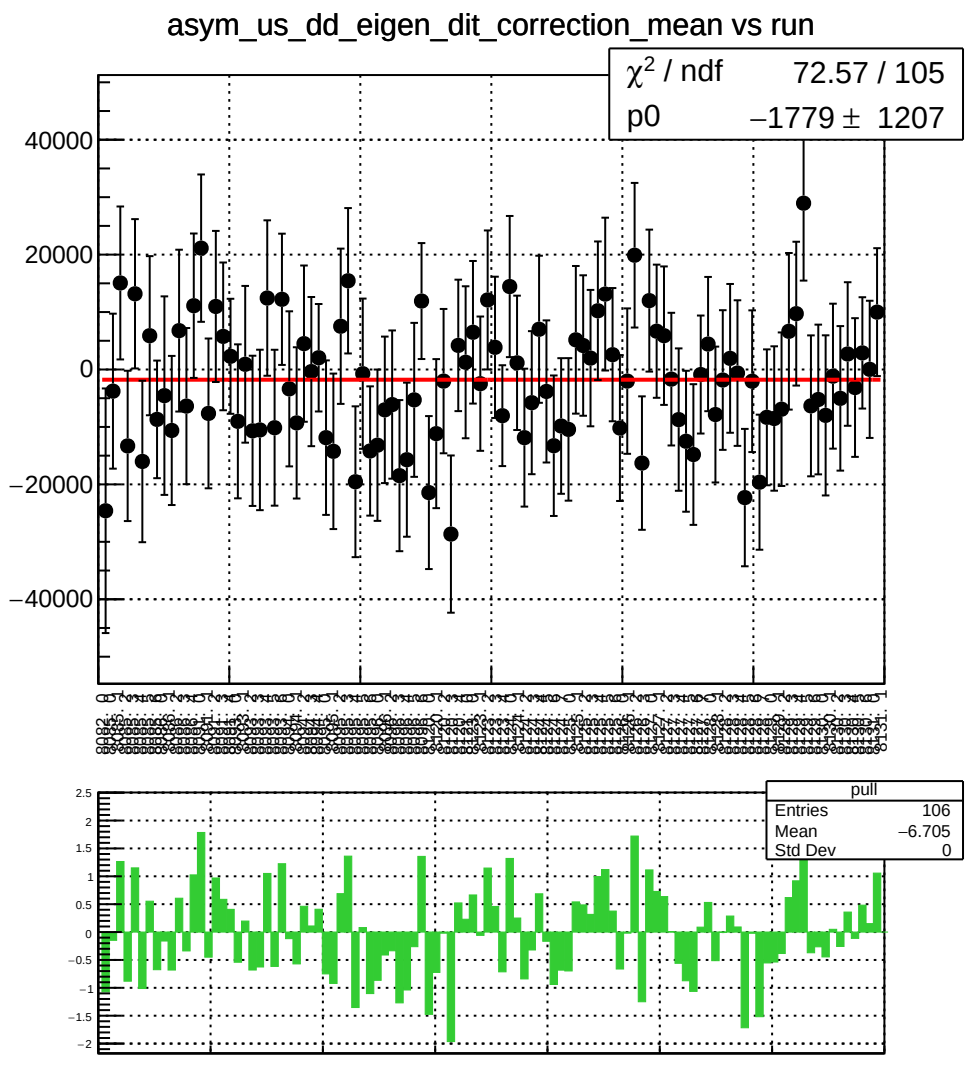
0
2
4
6
8


eigen_dit_asym_us_dd_rms vs run
χ² / ndf 185.3 / 104
p0 756.5 ± 0.533
780
770
760
750
740


asym_us_dd_eigen_dit_correction_mean vs run
χ² / ndf 72.57 / 105
p0 −1779 ± 1207
40000
20000
0
−20000
−40000
pull
Entries 106
Mean −6.705
Std Dev 0
2.5
2
1.5
1
0.5
0
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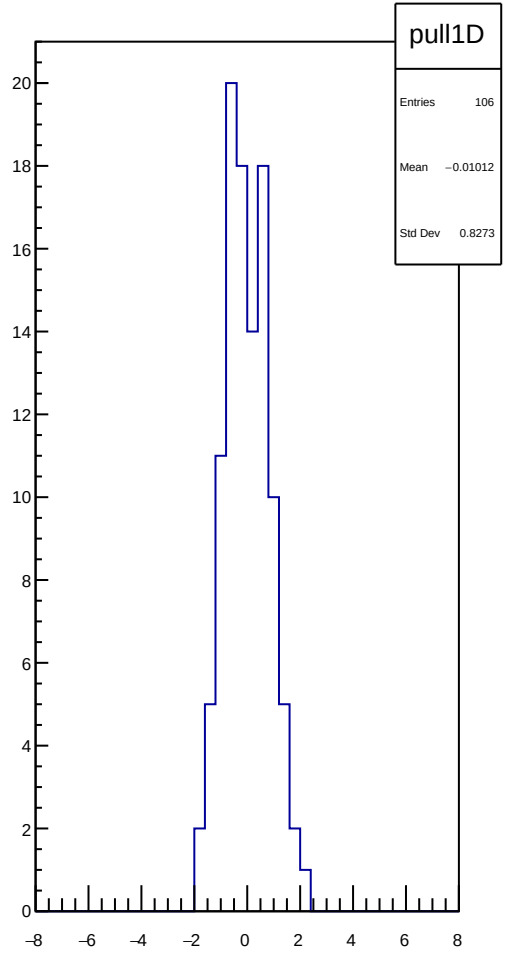
−1
−1.5
−2


pull1D
Entries 106
Mean −0.01012
Std Dev 0.8273
20
18
16
14
12
10
8
6
4
2
0
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−4
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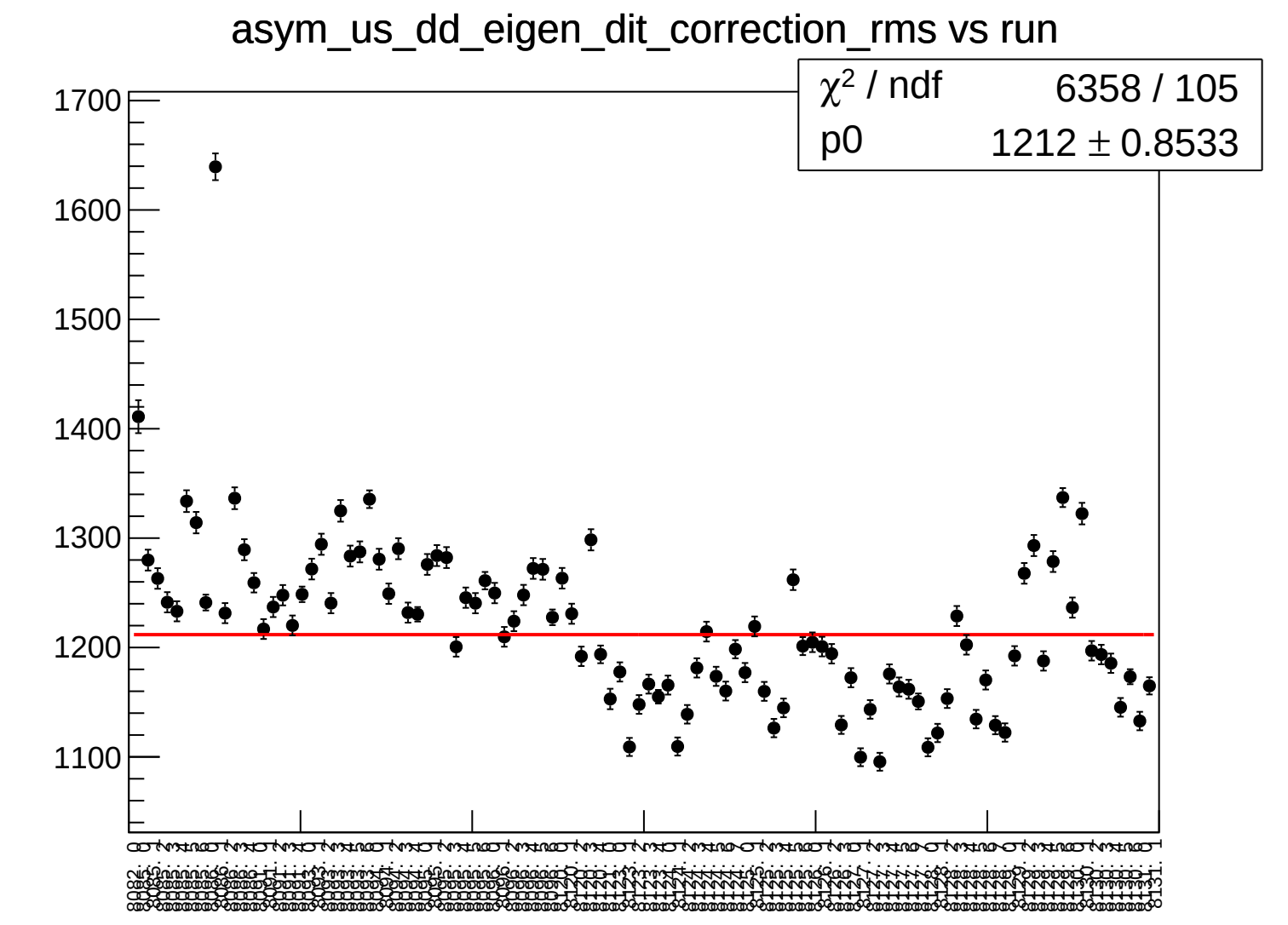
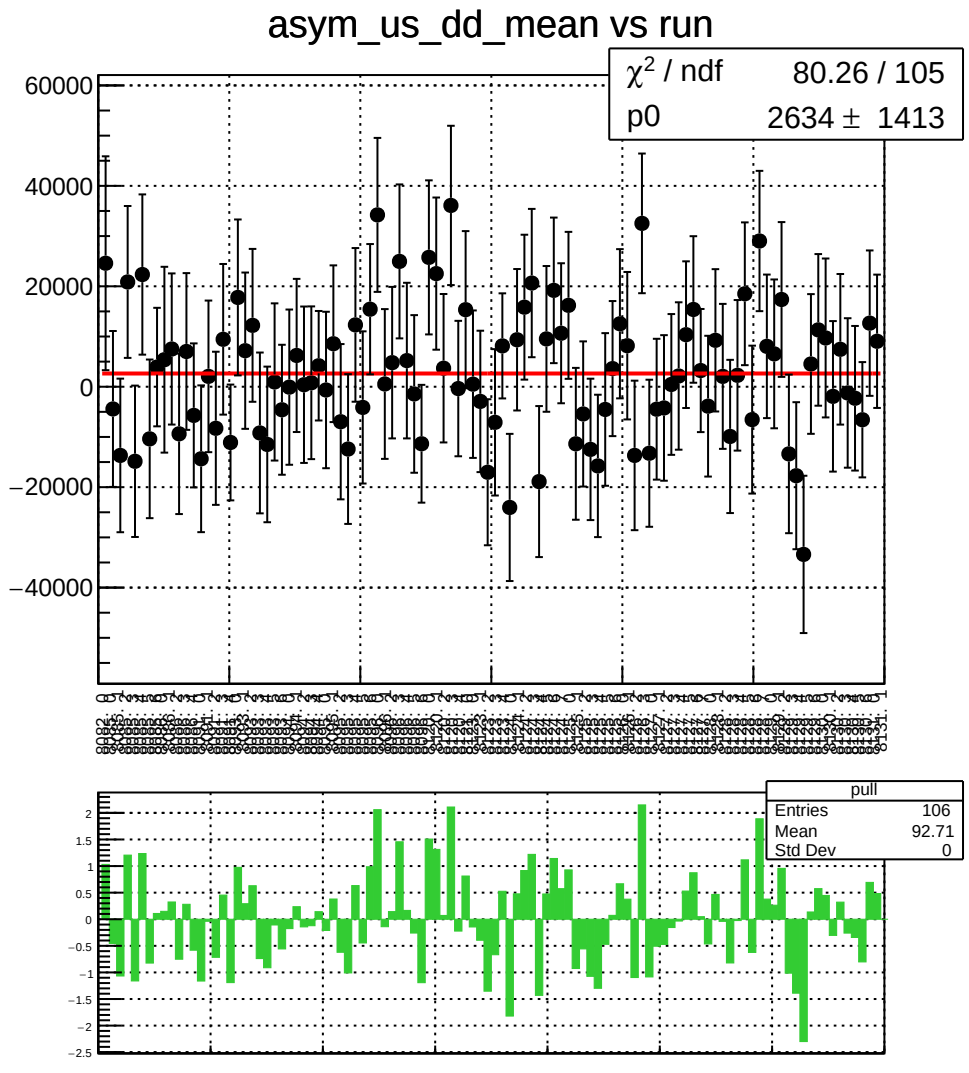
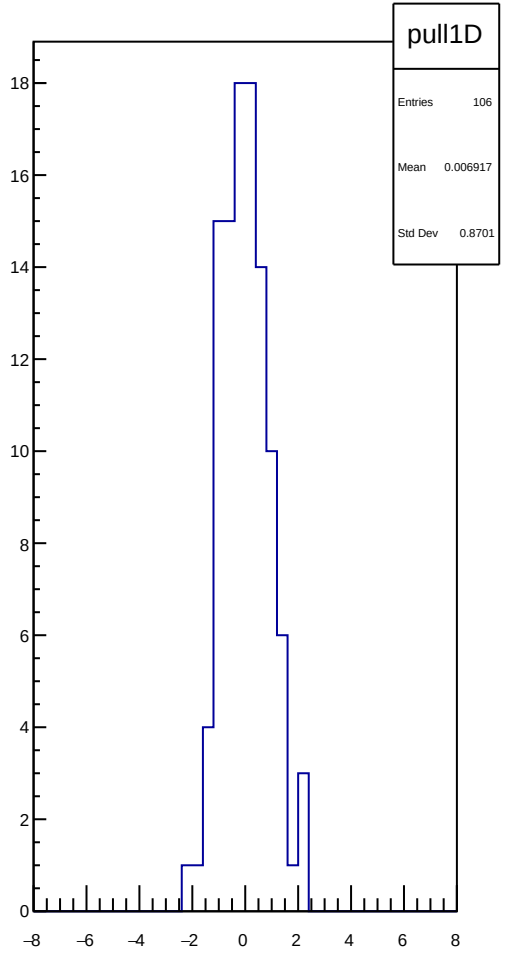
0
2
4
6
8


asym_us_dd_eigen_dit_correction_rms vs run
χ² / ndf 6358 / 105
p0 1212 ± 0.8533
1700
1600
1500
1400
1300
1200
1100


asym_us_dd_mean vs run
χ² / ndf 80.26 / 105
p0 2634 ± 1413
60000
40000
20000
0
−20000
−40000
pull
Entries 106
Mean 92.71
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 106
Mean 0.006917
Std Dev 0.8701
18
16
14
12
10
8
6
4
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0
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−4
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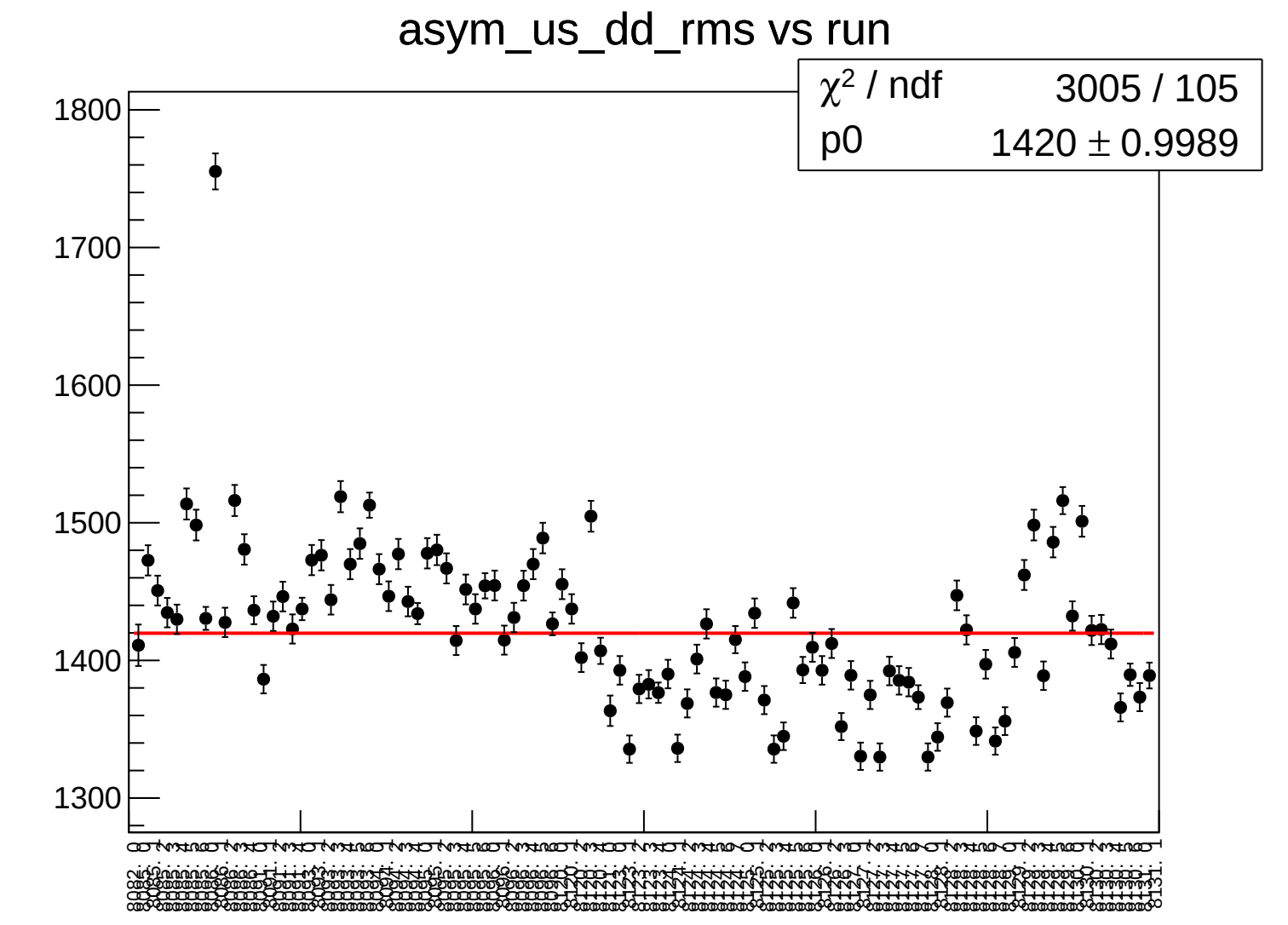
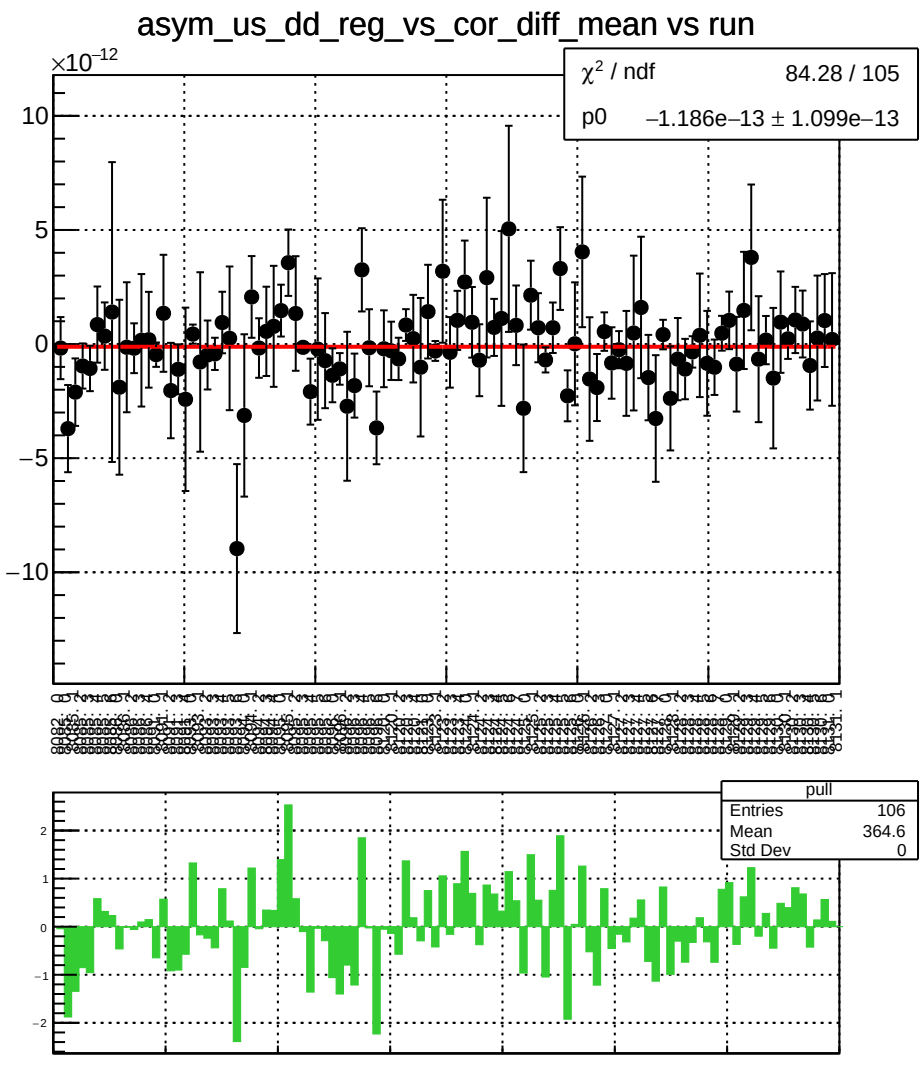
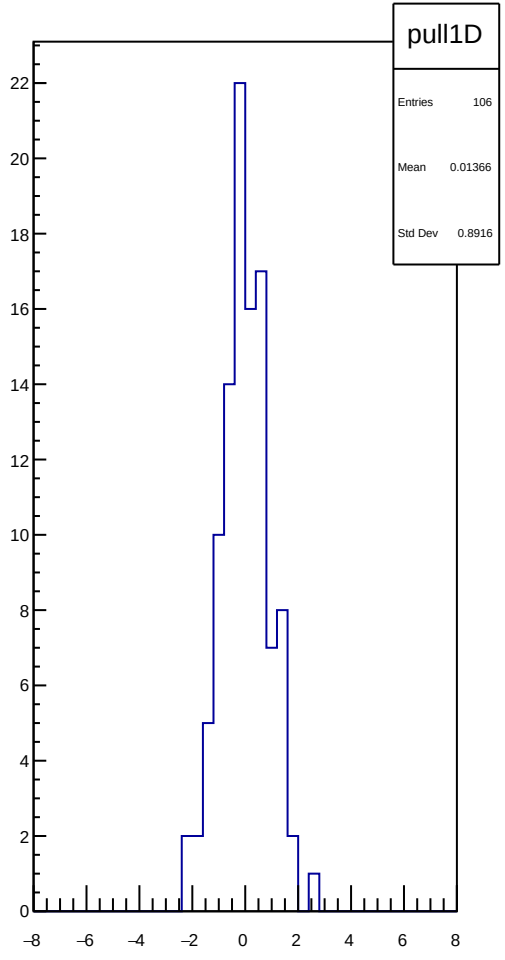
2
4
6
8


asym_us_dd_rms vs run
χ² / ndf 3005 / 105
p0 1420 ± 0.9989
1800
1700
1600
1500
1400
1300


asym_us_dd_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.28 / 105
p0 −1.186e−13 ± 1.099e−13
10
5
0
−5
−10
pull
Entries 106
Mean 364.6
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 106
Mean 0.01366
Std Dev 0.8916
22
20
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16
14
12
10
8
6
4
2
0
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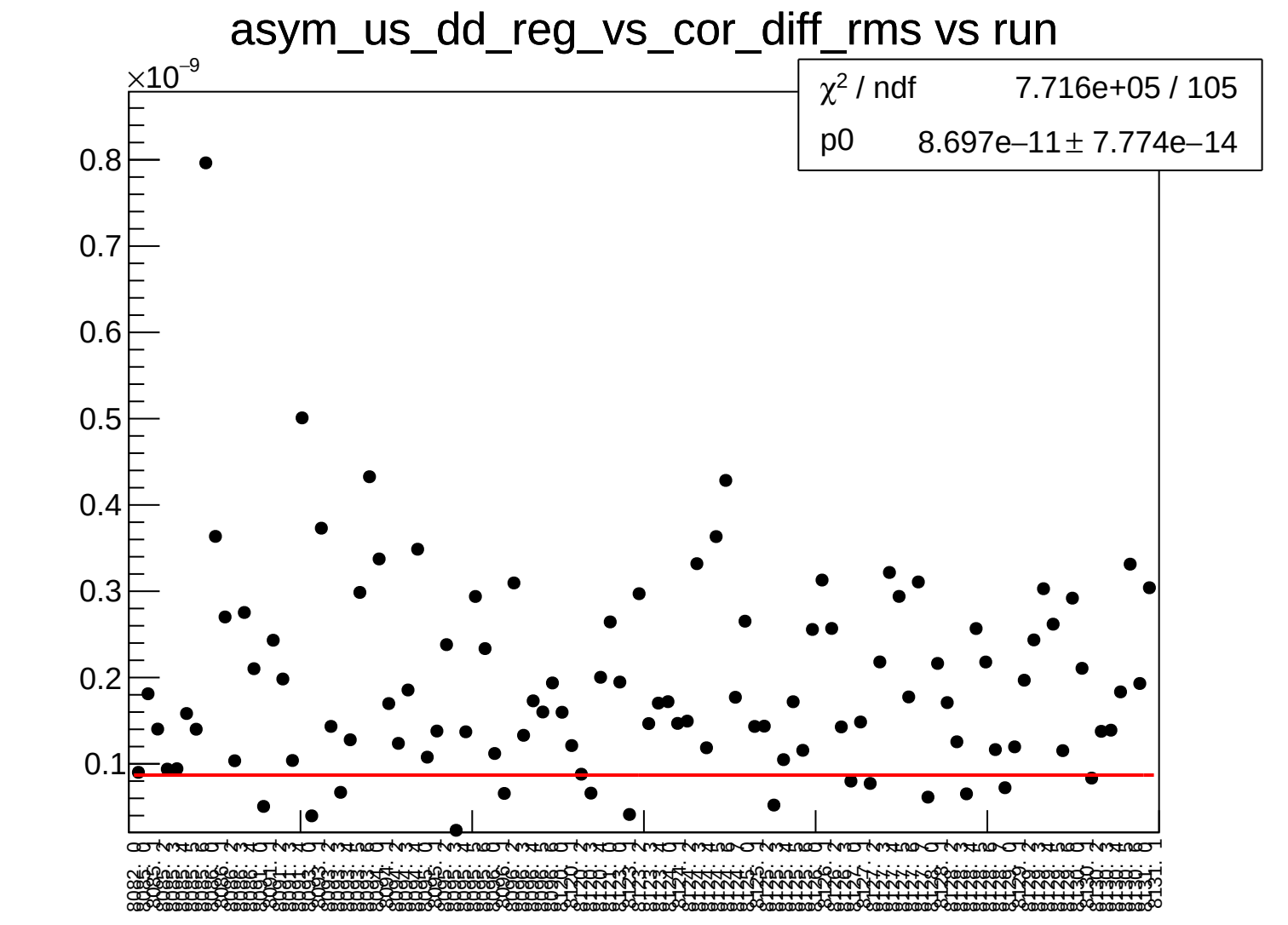
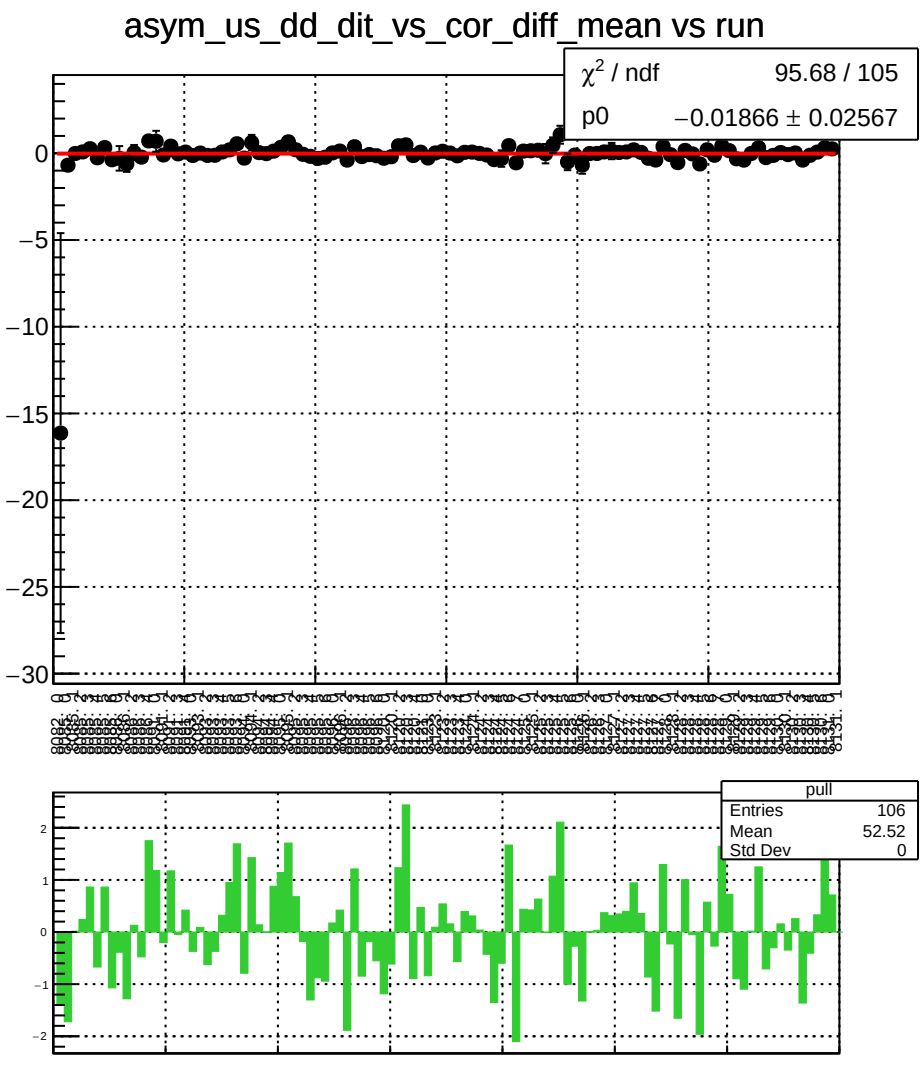
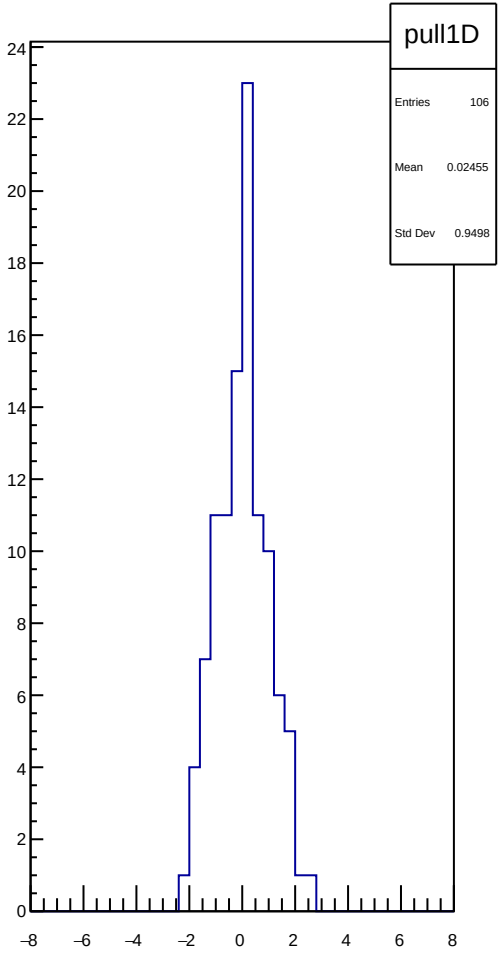
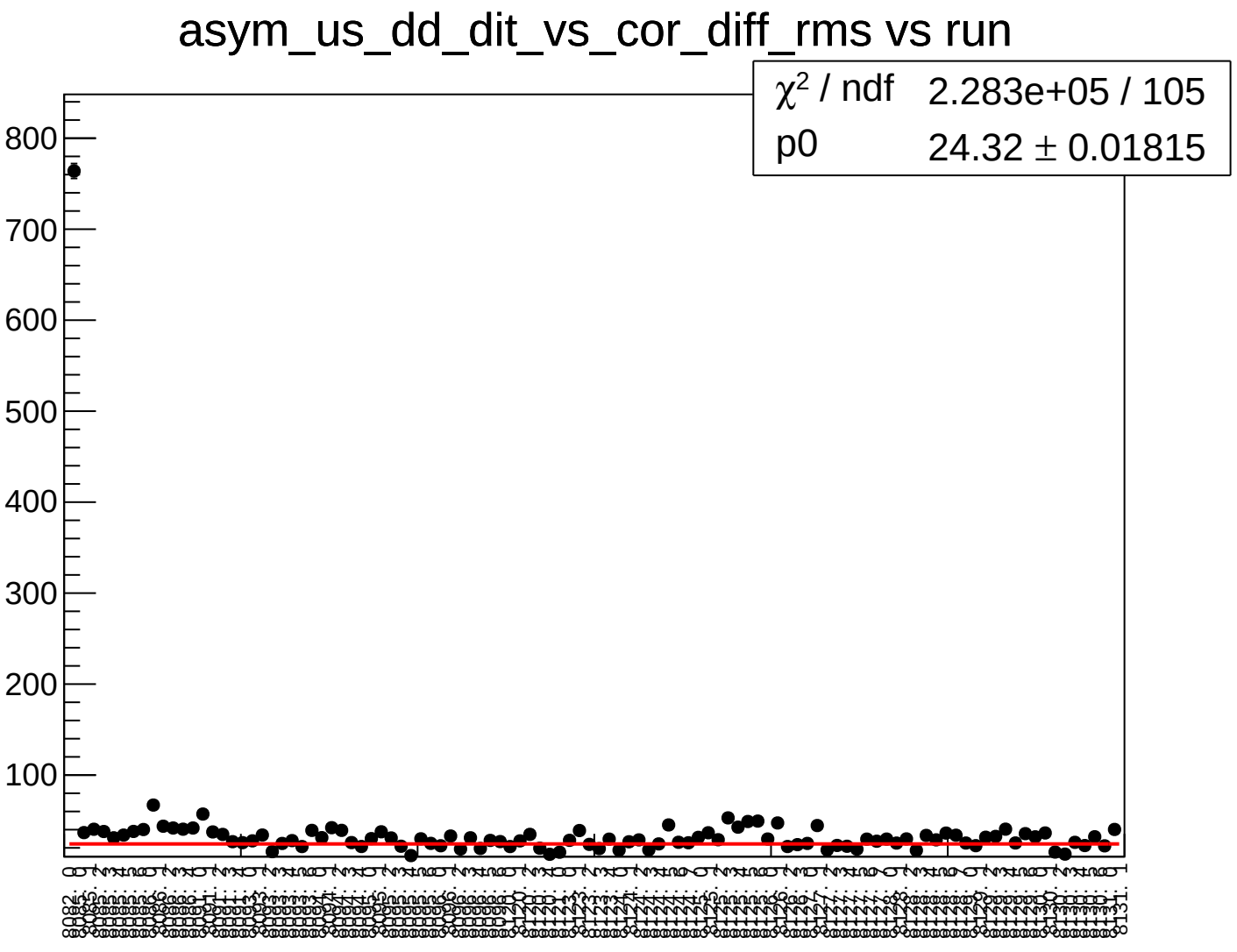
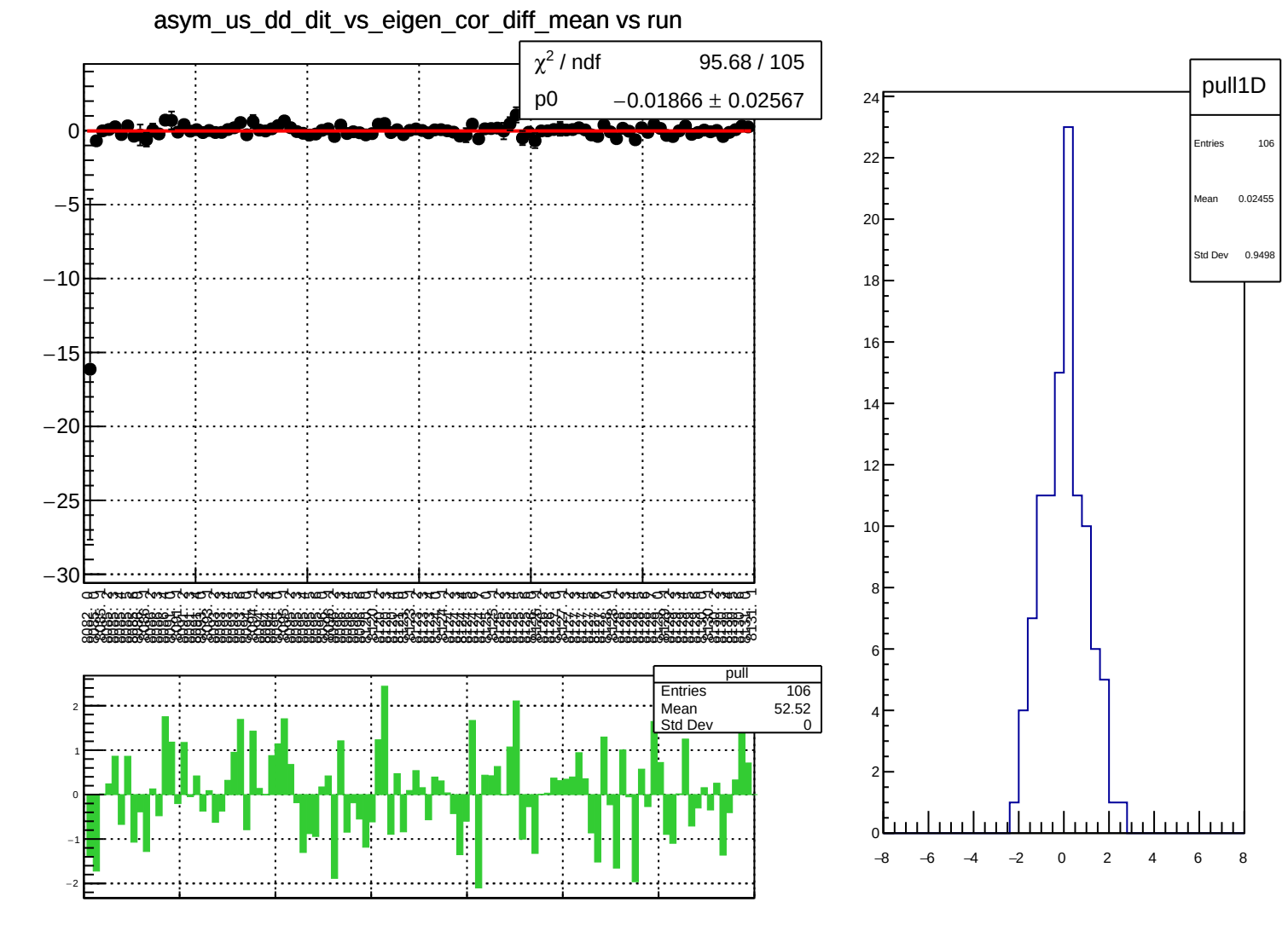
−6
−4
−2
0
2
4
6
8

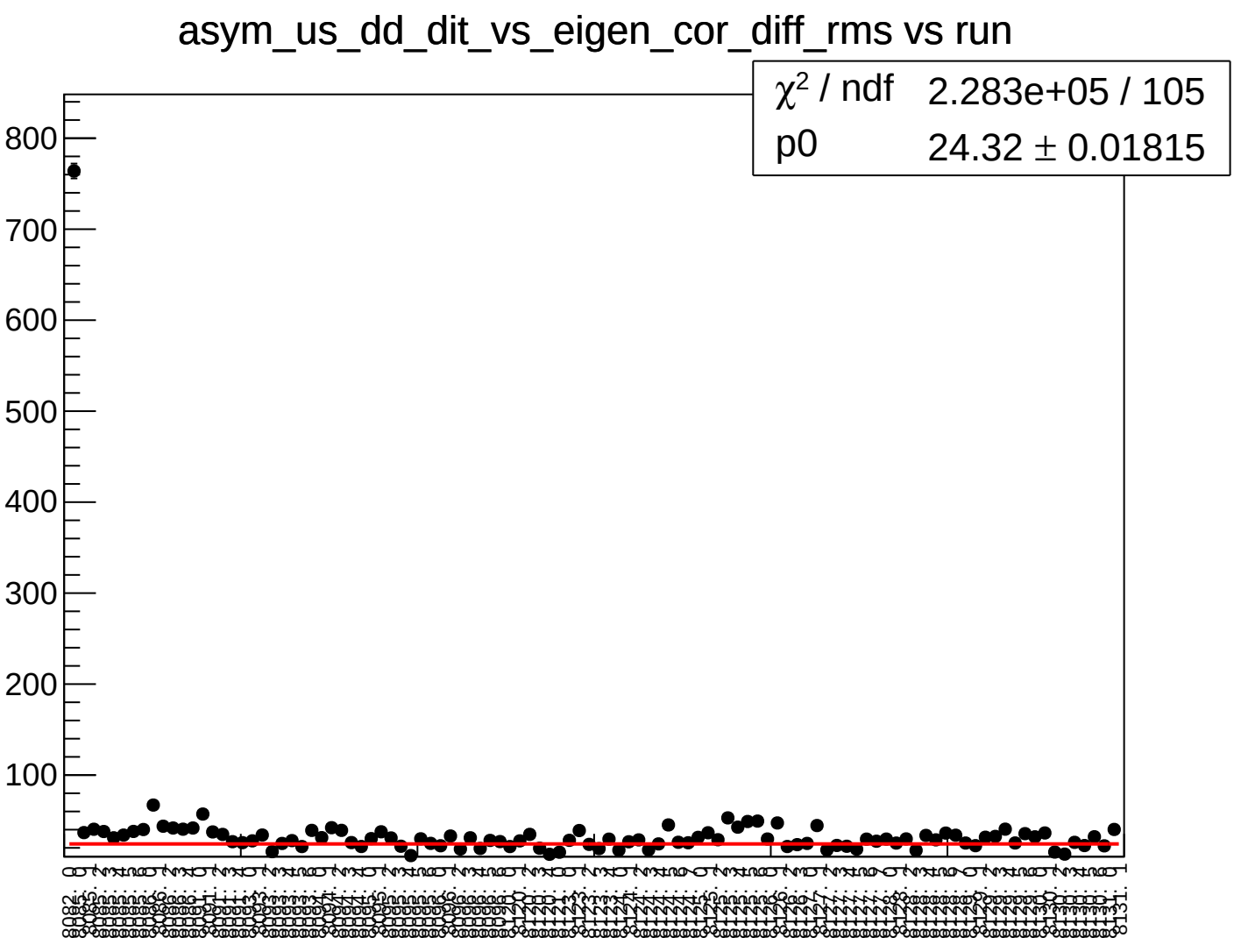

asym_us_dd_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.716e+05 / 105
p0 8.697e−11 ± 7.774e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

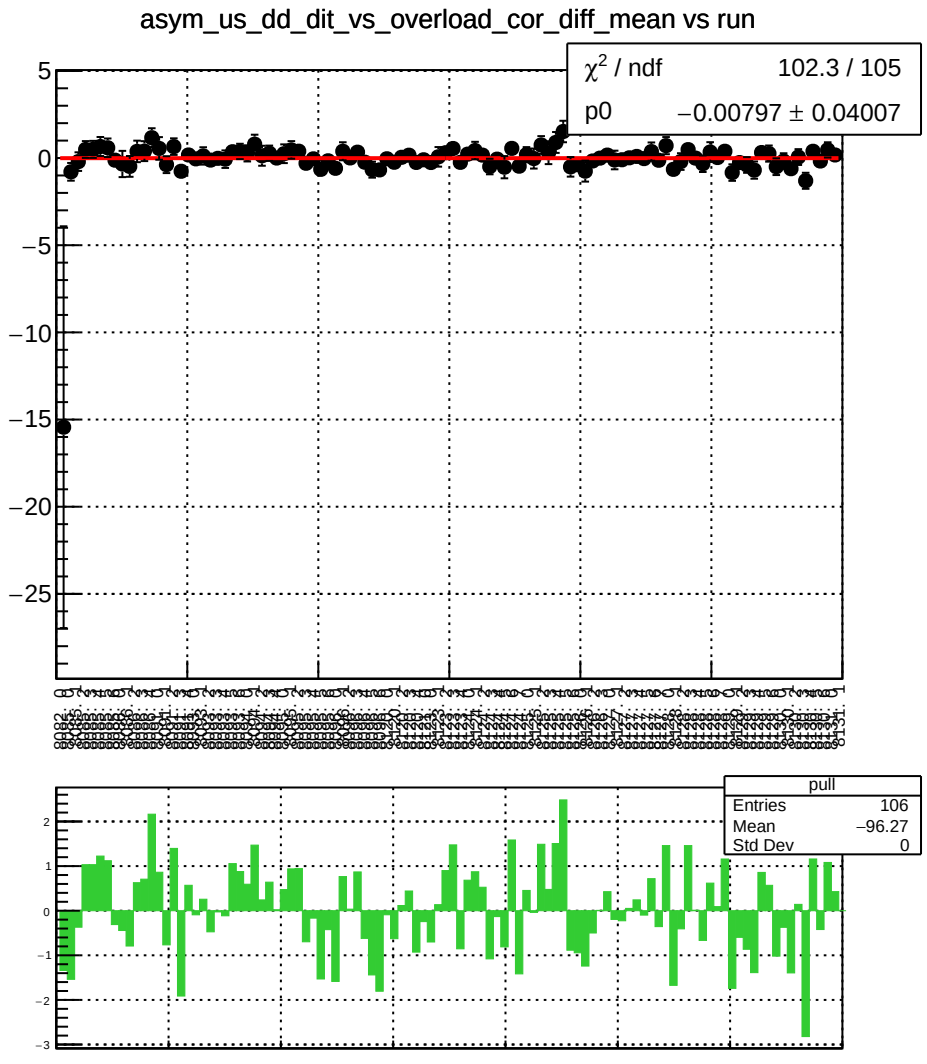

asym_us_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 95.68 / 105
p0 −0.01866 ± 0.02567
pull
Entries 106
Mean 52.52
Std Dev 0

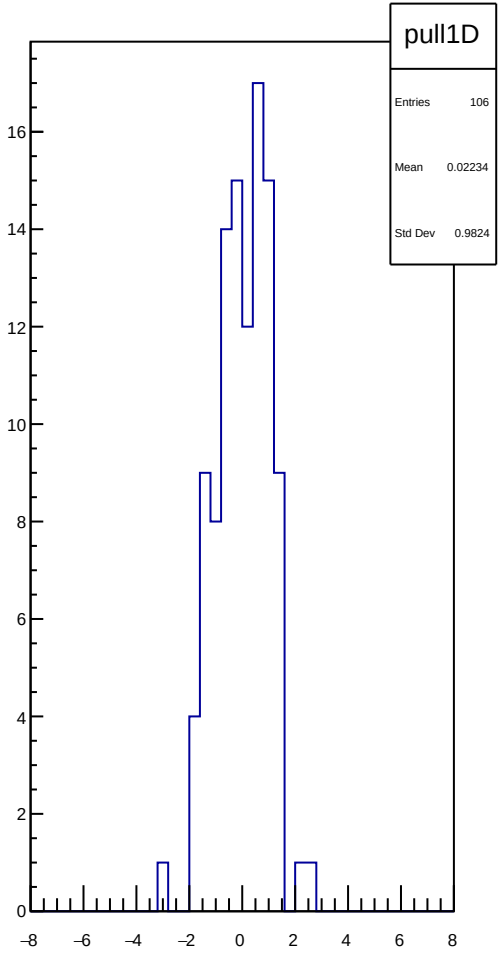

pull1D
Entries 106
Mean 0.02455
Std Dev 0.9498

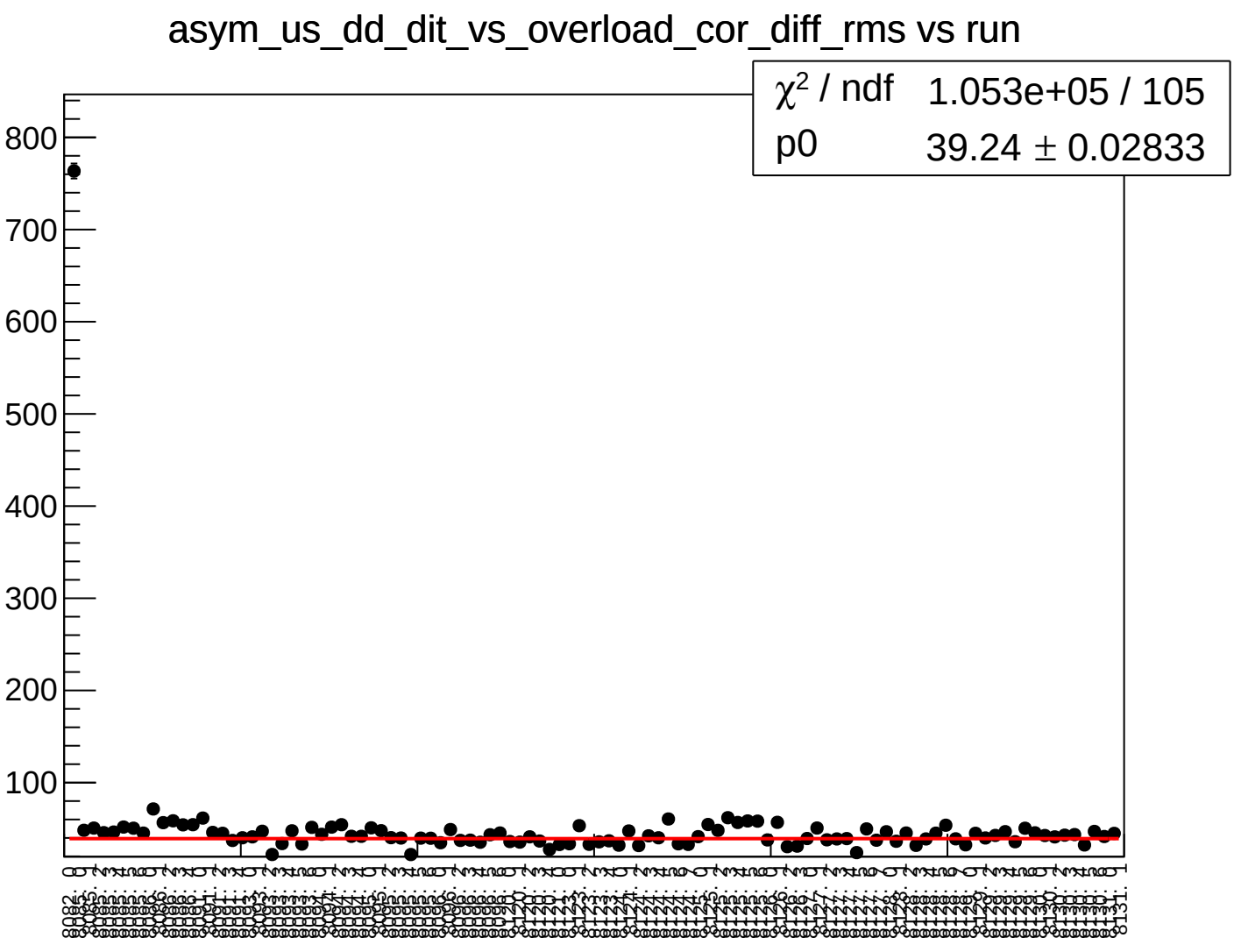

asym_us_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.283e+05 / 105
p0 24.32 ± 0.01815
800
700
600
500
400
300
200
100

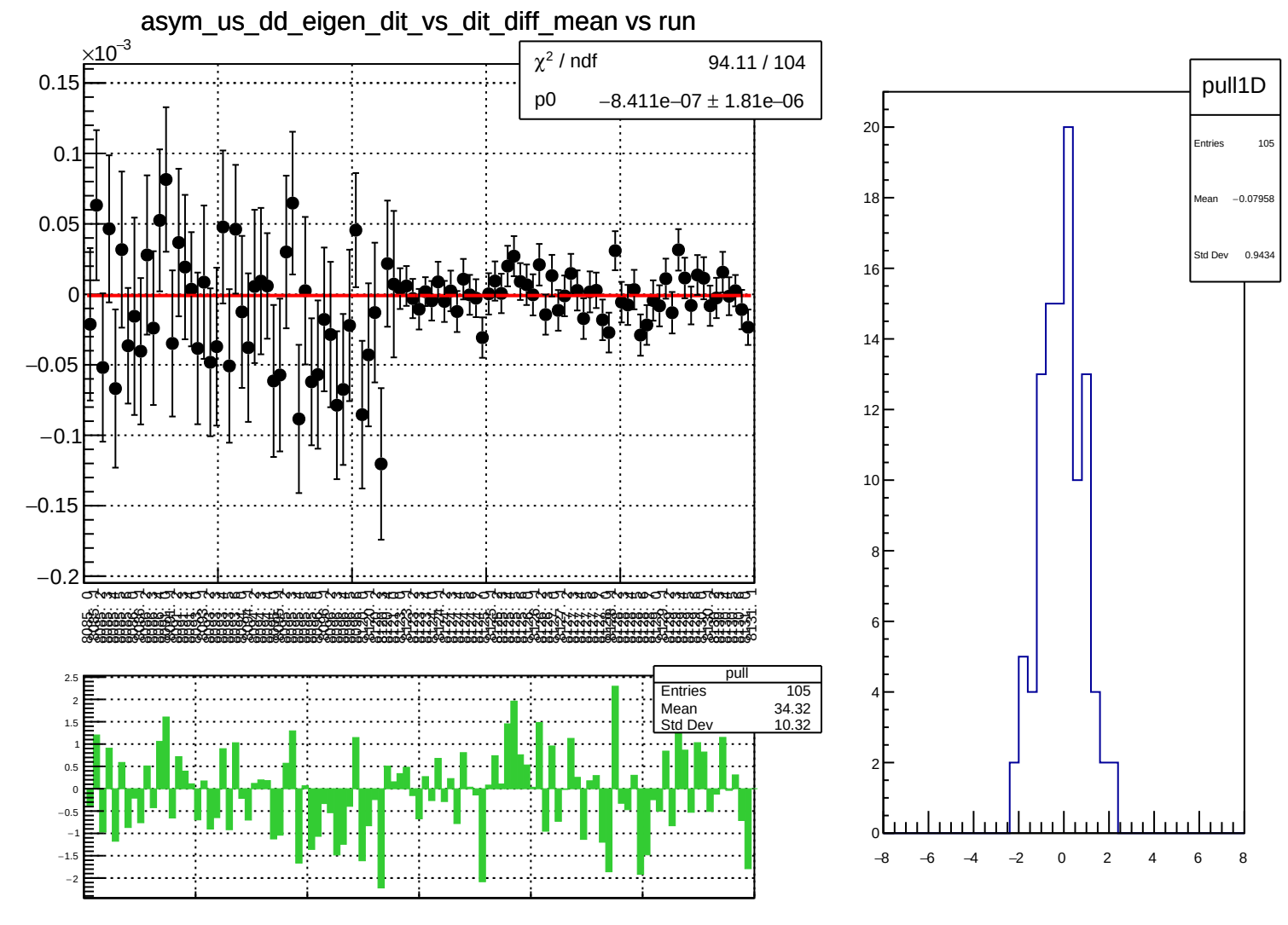

asym_us_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.68 / 105
p0 −0.01866 ± 0.02567
pull
Entries 106
Mean 52.52
Std Dev 0
pull1D
Entries 106
Mean 0.02455
Std Dev 0.9498

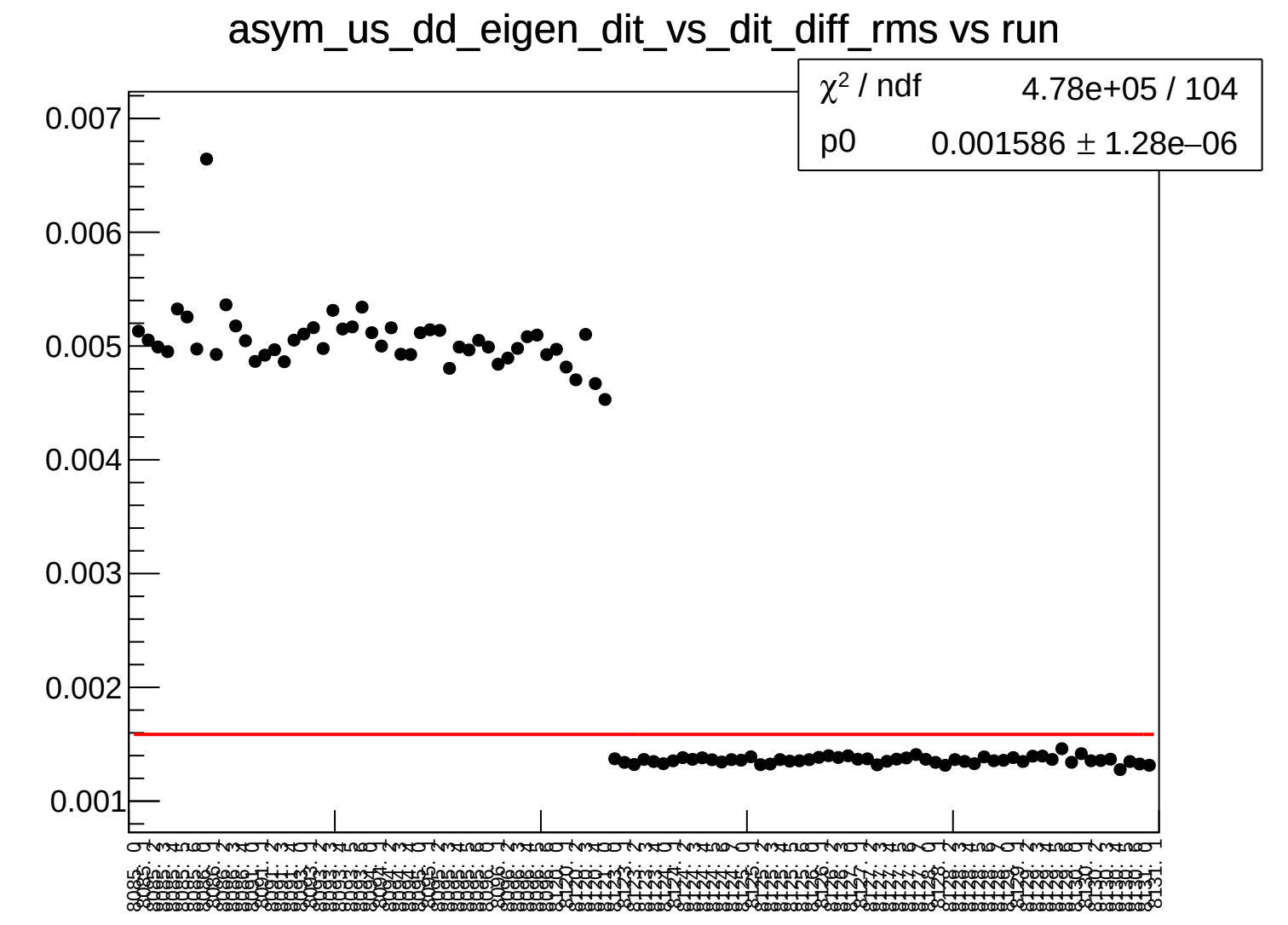

asym_us_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.283e+05 / 105
p0 24.32 ± 0.01815
800
700
600
500
400
300
200
100

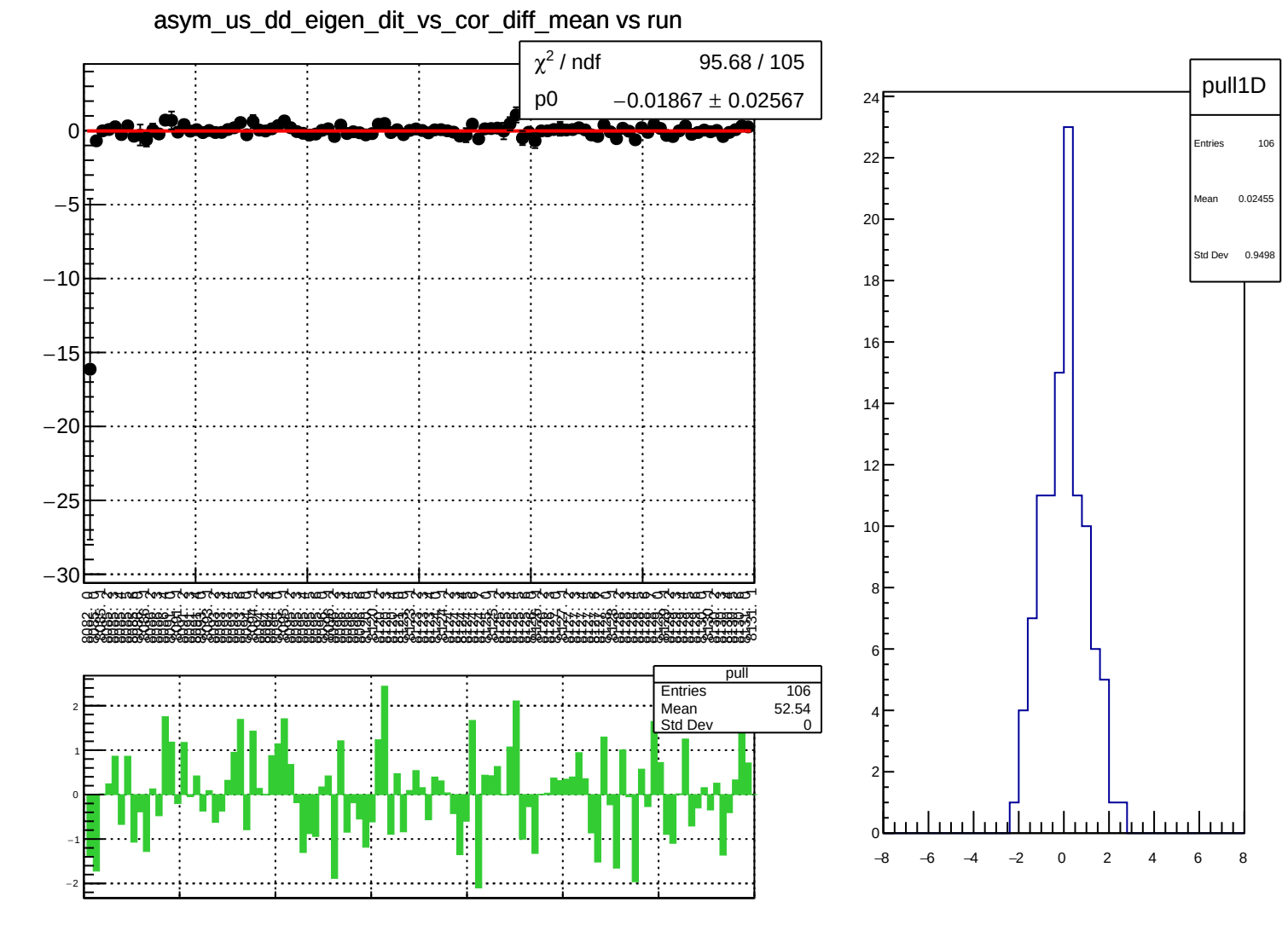

asym_us_dd_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 102.3 / 105
p0 −0.00797 ± 0.04007
pull
Entries 106
Mean −96.27
Std Dev 0

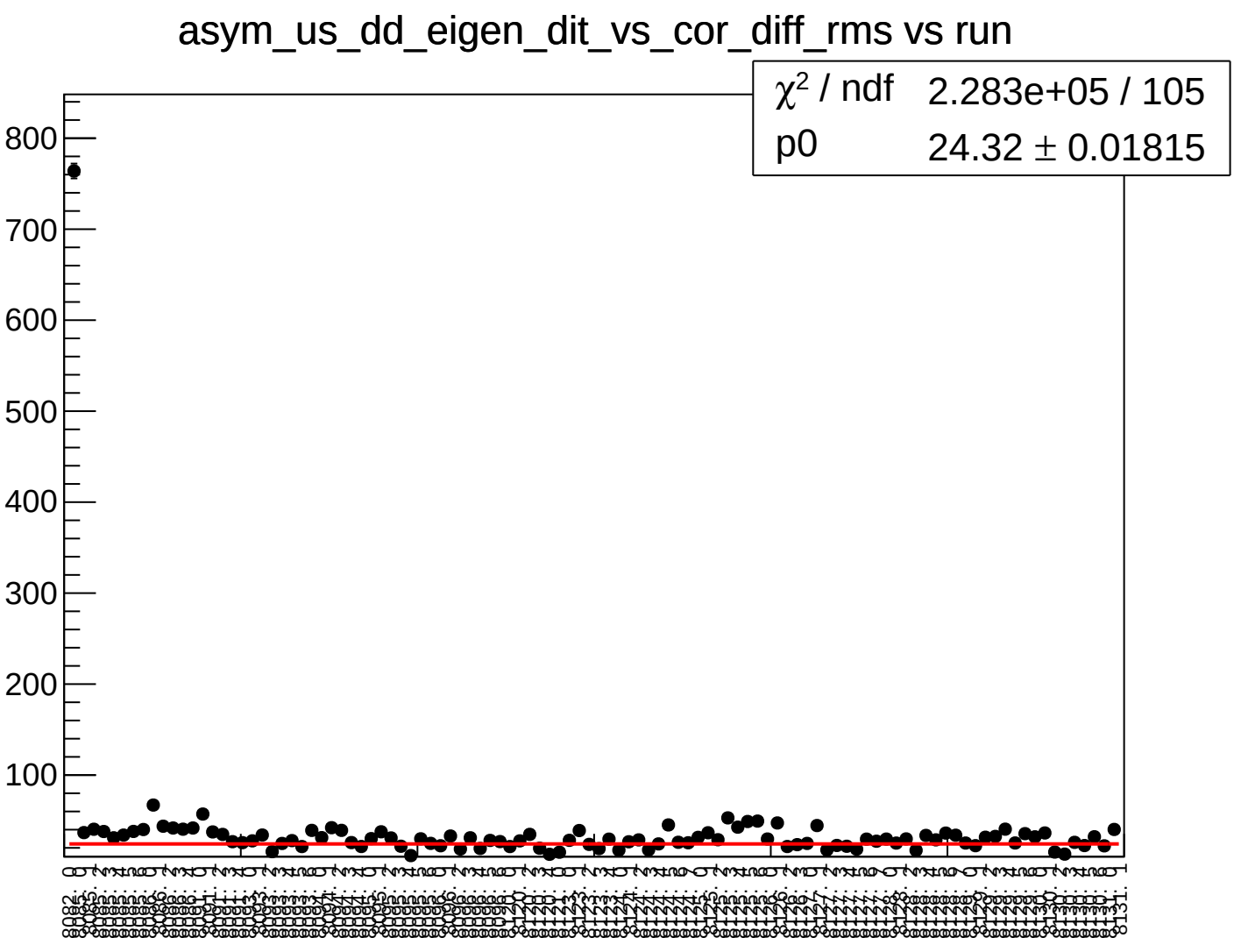

pull1D
Entries 106
Mean 0.02234
Std Dev 0.9824

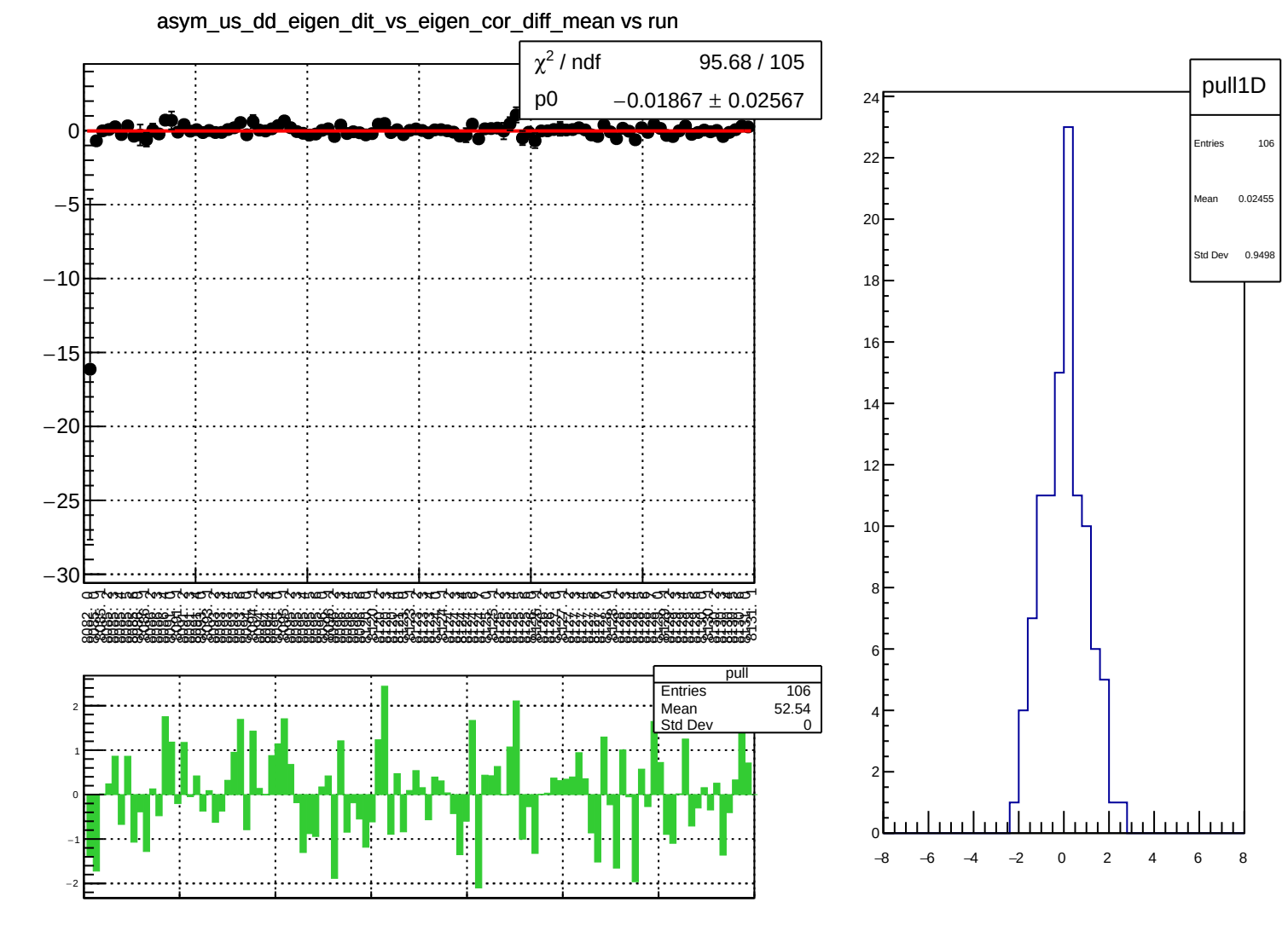

asym_us_dd_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.053e+05 / 105
p0 39.24 ± 0.02833
800
700
600
500
400
300
200
100

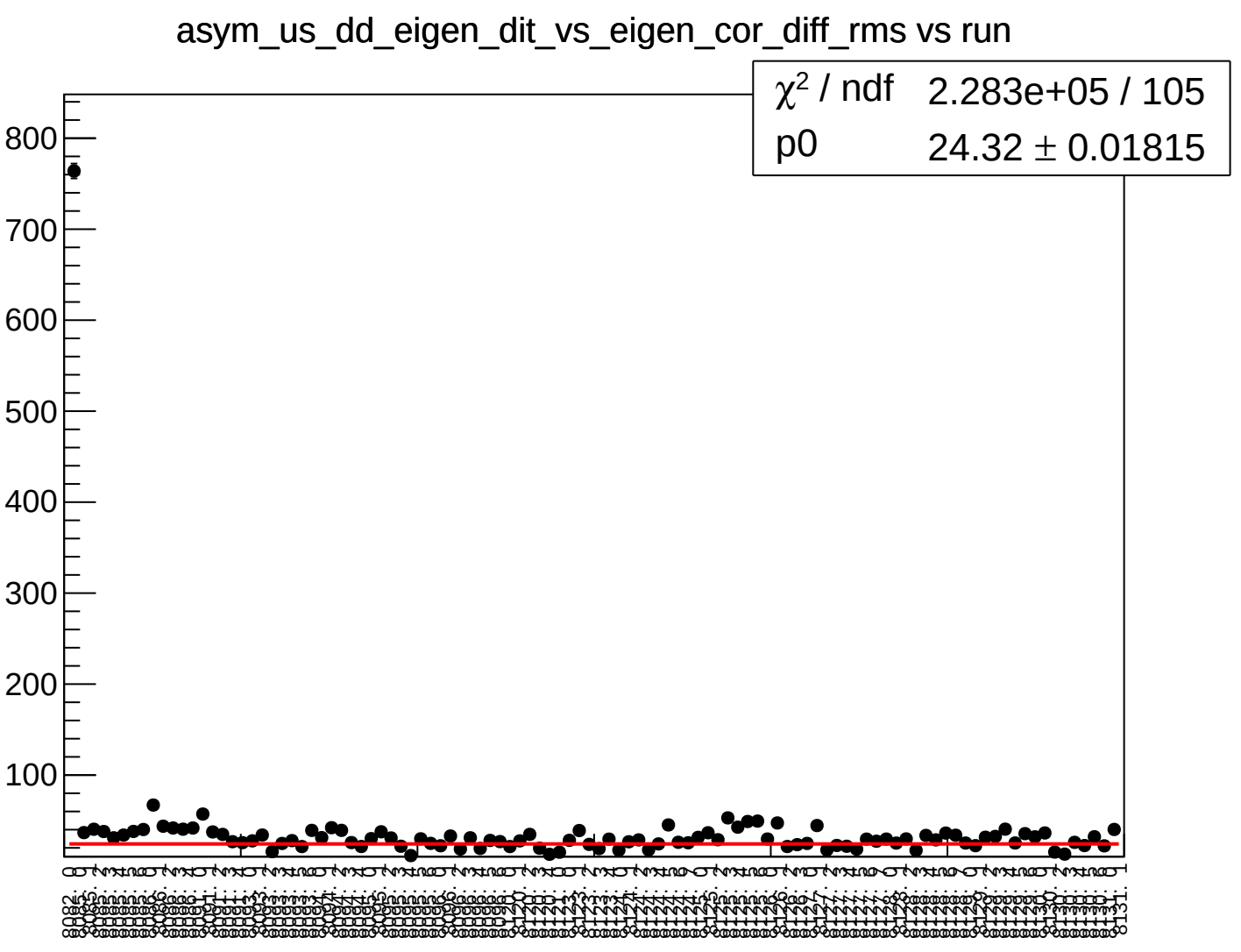

asym_us_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 94.11 / 104
p0 −8.411e−07 ± 1.81e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
pull
Entries 105
Mean 34.32
Std Dev 10.32
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 105
Mean −0.07958
Std Dev 0.9434
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

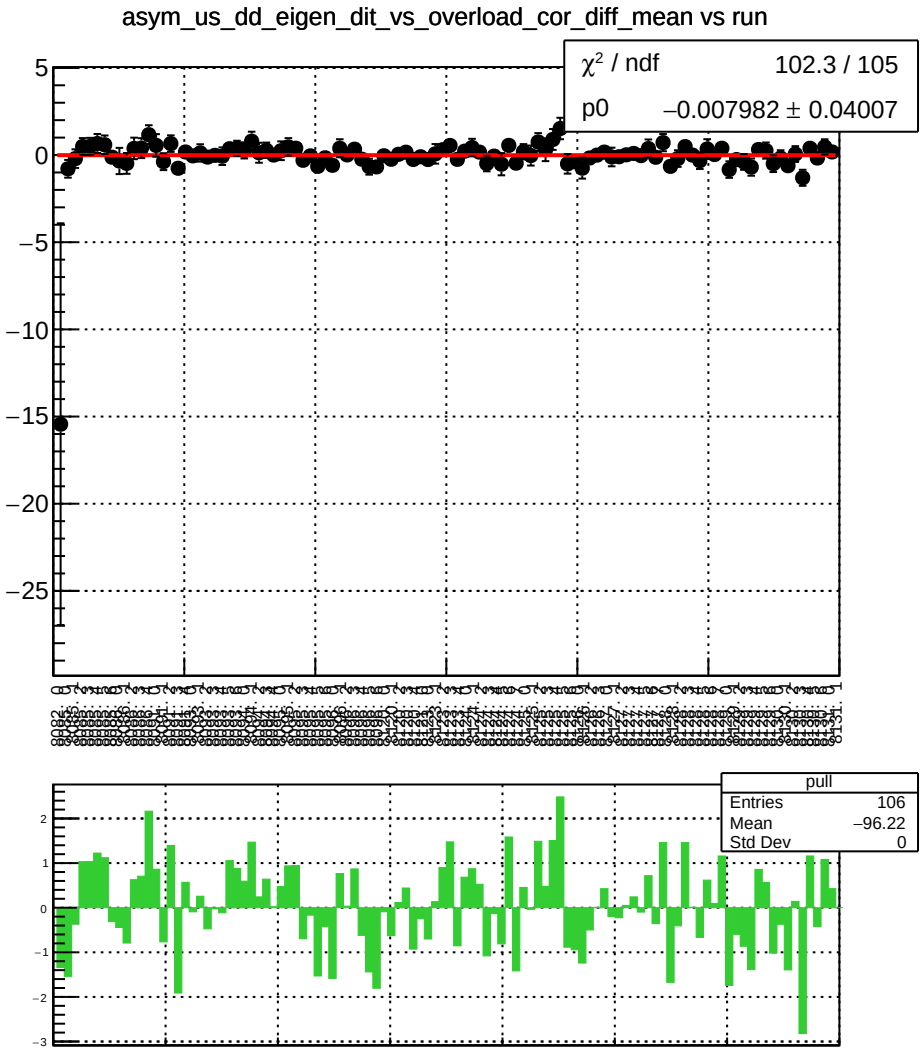

asym_us_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.78e+05 / 104
p0 0.001586 ± 1.28e−06
0.007
0.006
0.005
0.004
0.003
0.002
0.001

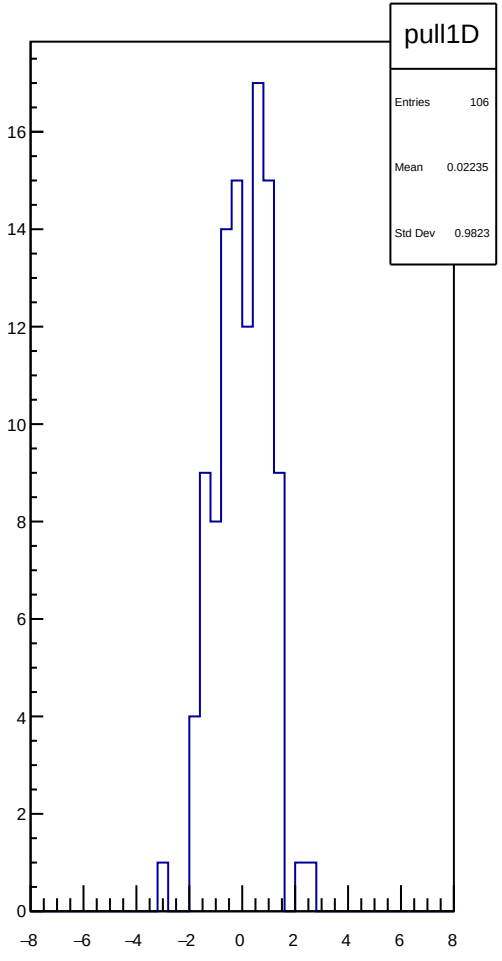

asym_us_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.68 / 105
p0 −0.01867 ± 0.02567
0
−5
−10
−15
−20
−25
−30
pull
Entries 106
Mean 52.54
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 106
Mean 0.02455
Std Dev 0.9498
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

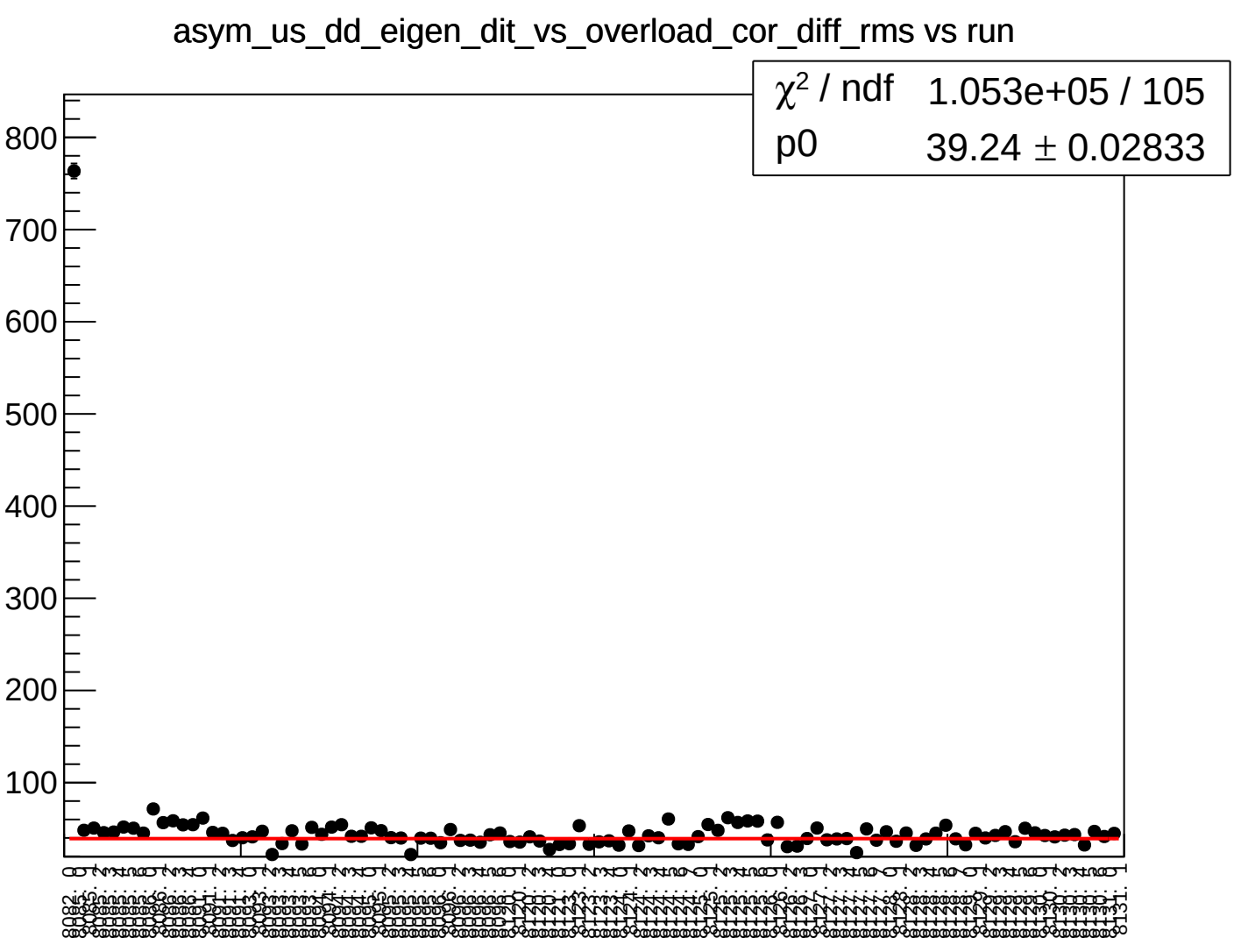

asym_us_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.283e+05 / 105
p0 24.32 ± 0.01815
800
700
600
500
400
300
200
100

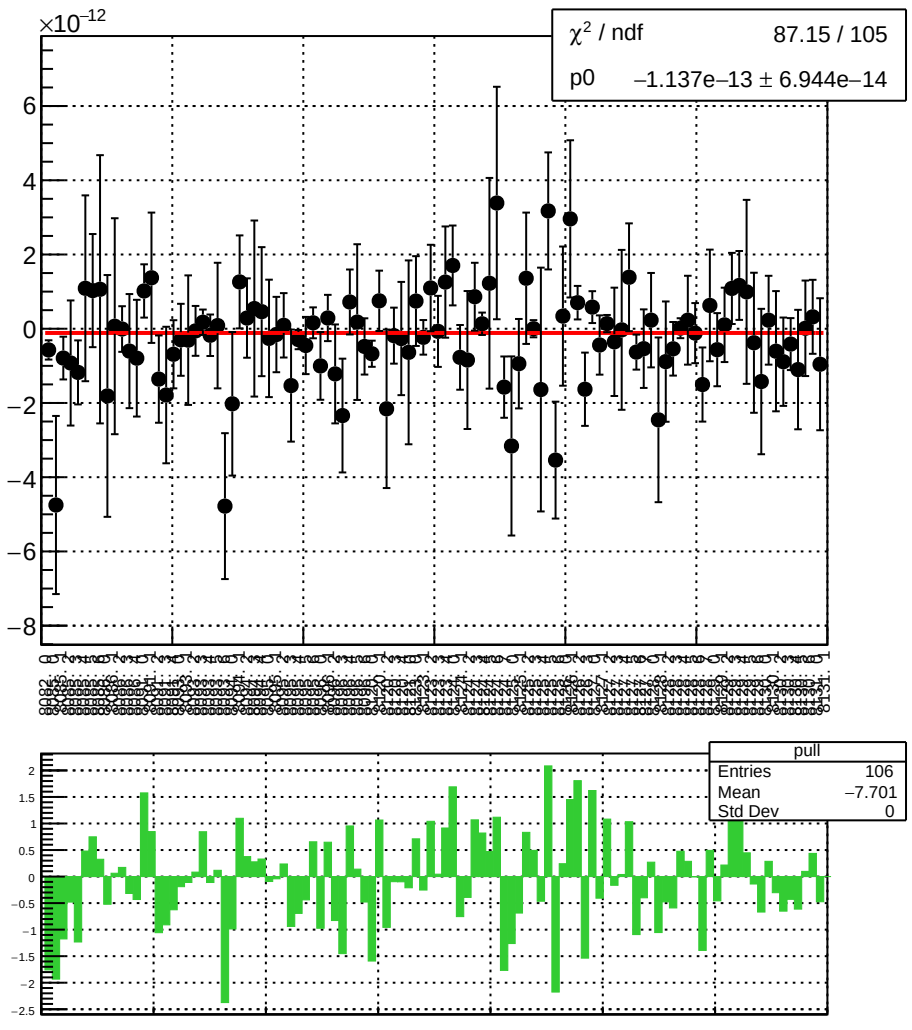

asym_us_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.68 / 105
p0 −0.01867 ± 0.02567
pull
Entries 106
Mean 52.54
Std Dev 0
pull1D
Entries 106
Mean 0.02455
Std Dev 0.9498

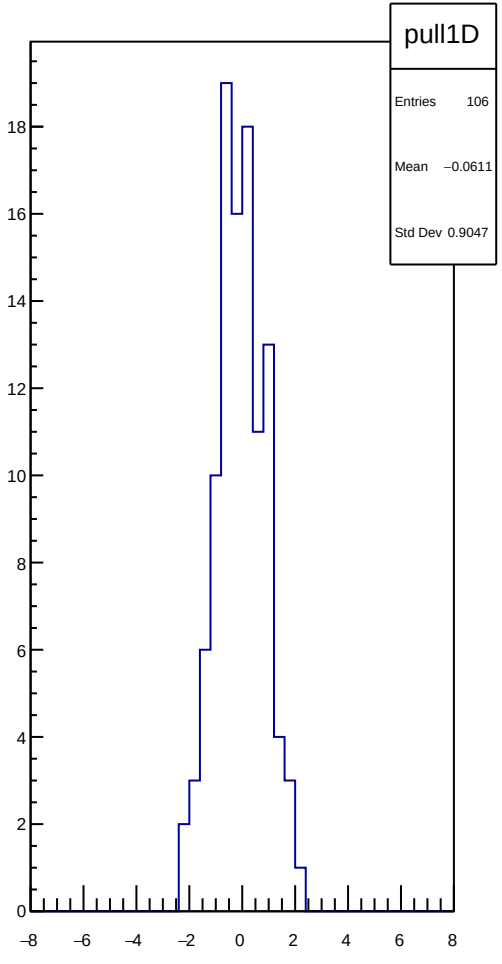

asym_us_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.283e+05 / 105
p0 24.32 ± 0.01815
800
700
600
500
400
300
200
100

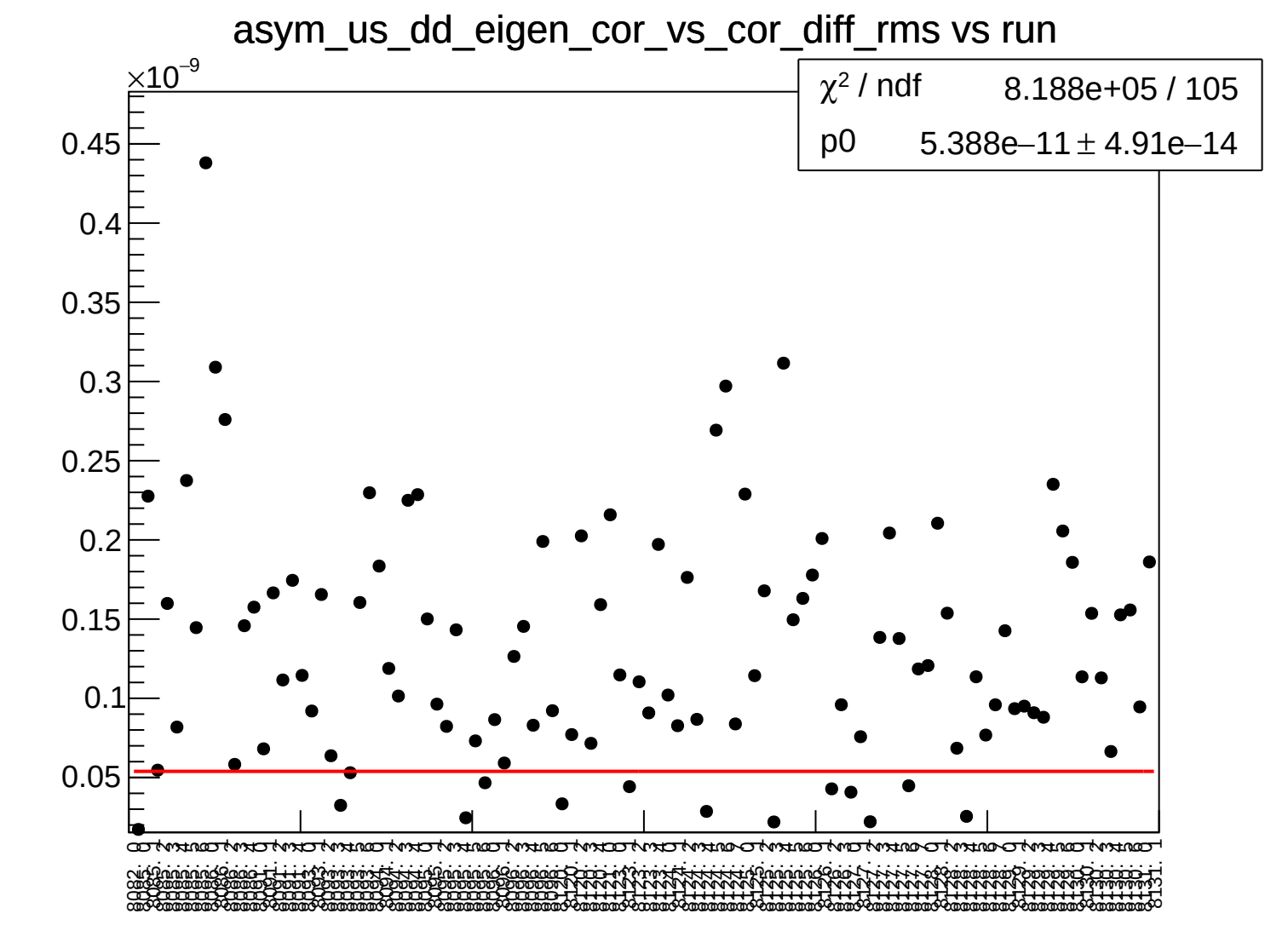

asym_us_dd_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 102.3 / 105
p0 −0.007982 ± 0.04007
pull
Entries 106
Mean −96.22
Std Dev 0

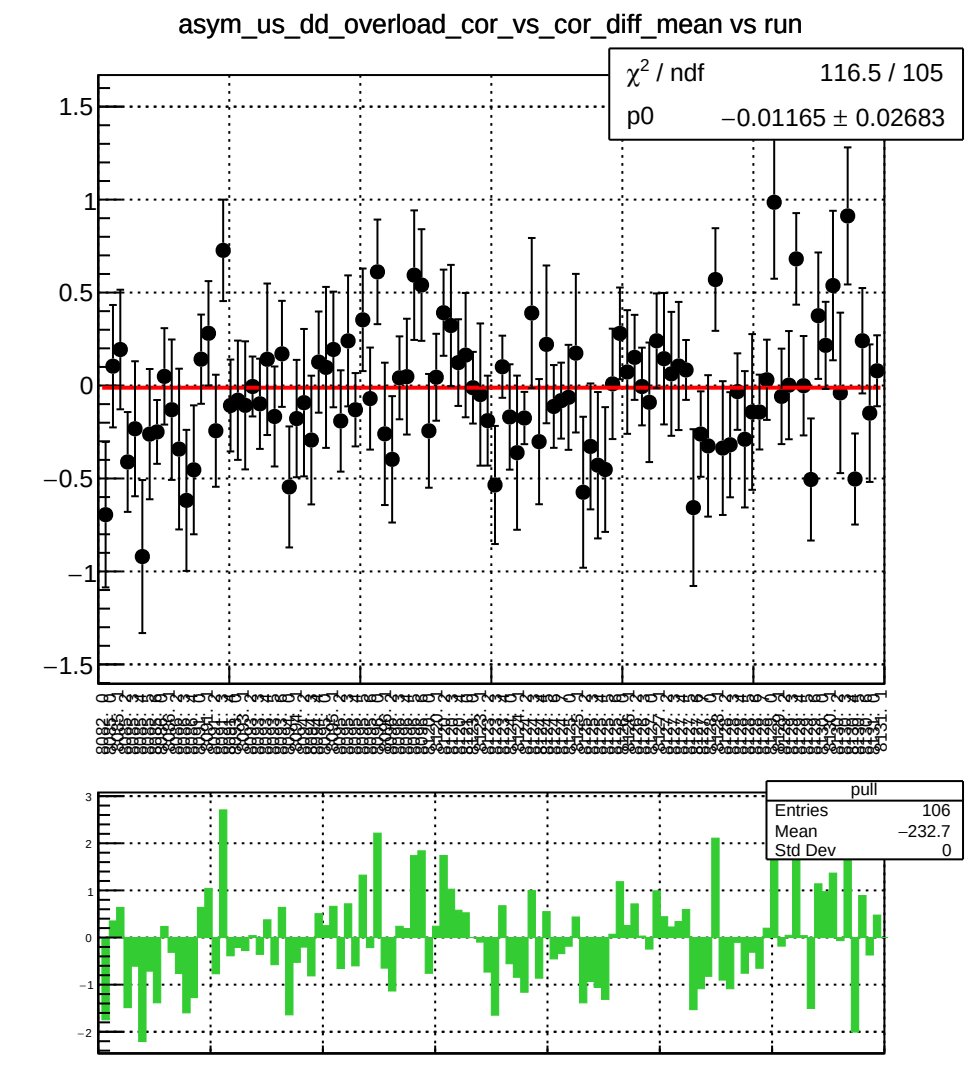

pull1D
Entries 106
Mean 0.02235
Std Dev 0.9823

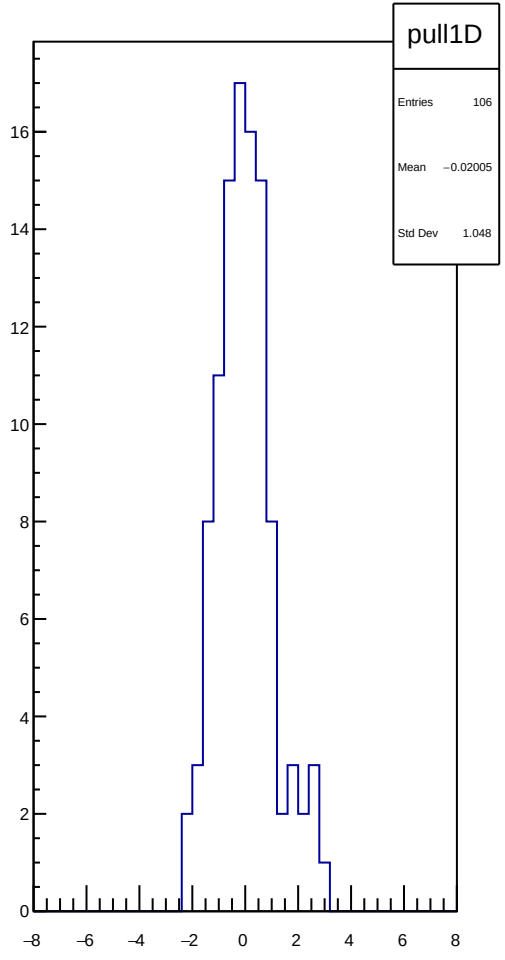

asym_us_dd_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.053e+05 / 105
p0 39.24 ± 0.02833
800
700
600
500
400
300
200
100

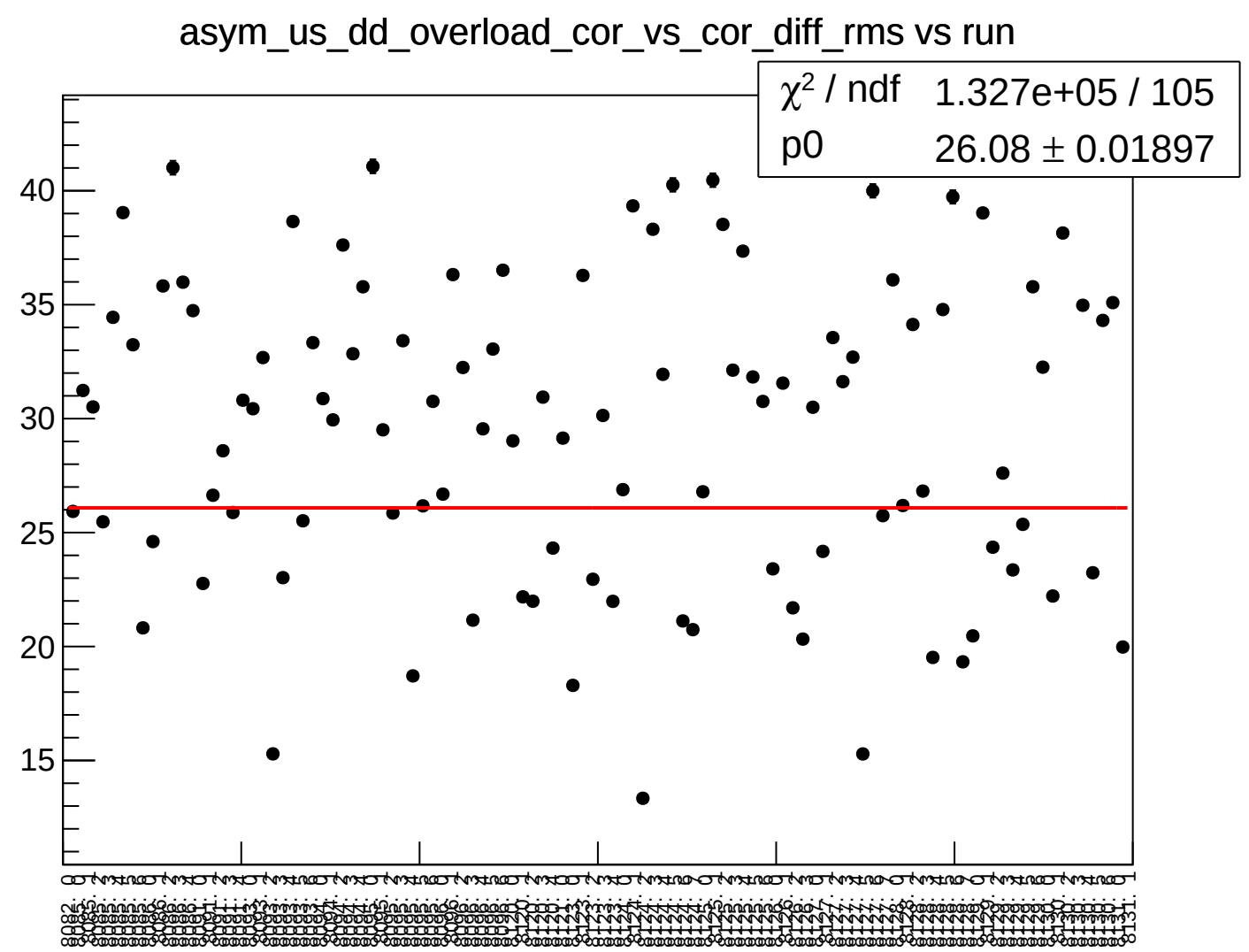

asym_us_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.15 / 105
p0 −1.137e−13 ± 6.944e−14
pull
Entries 106
Mean −7.701
Std Dev 0

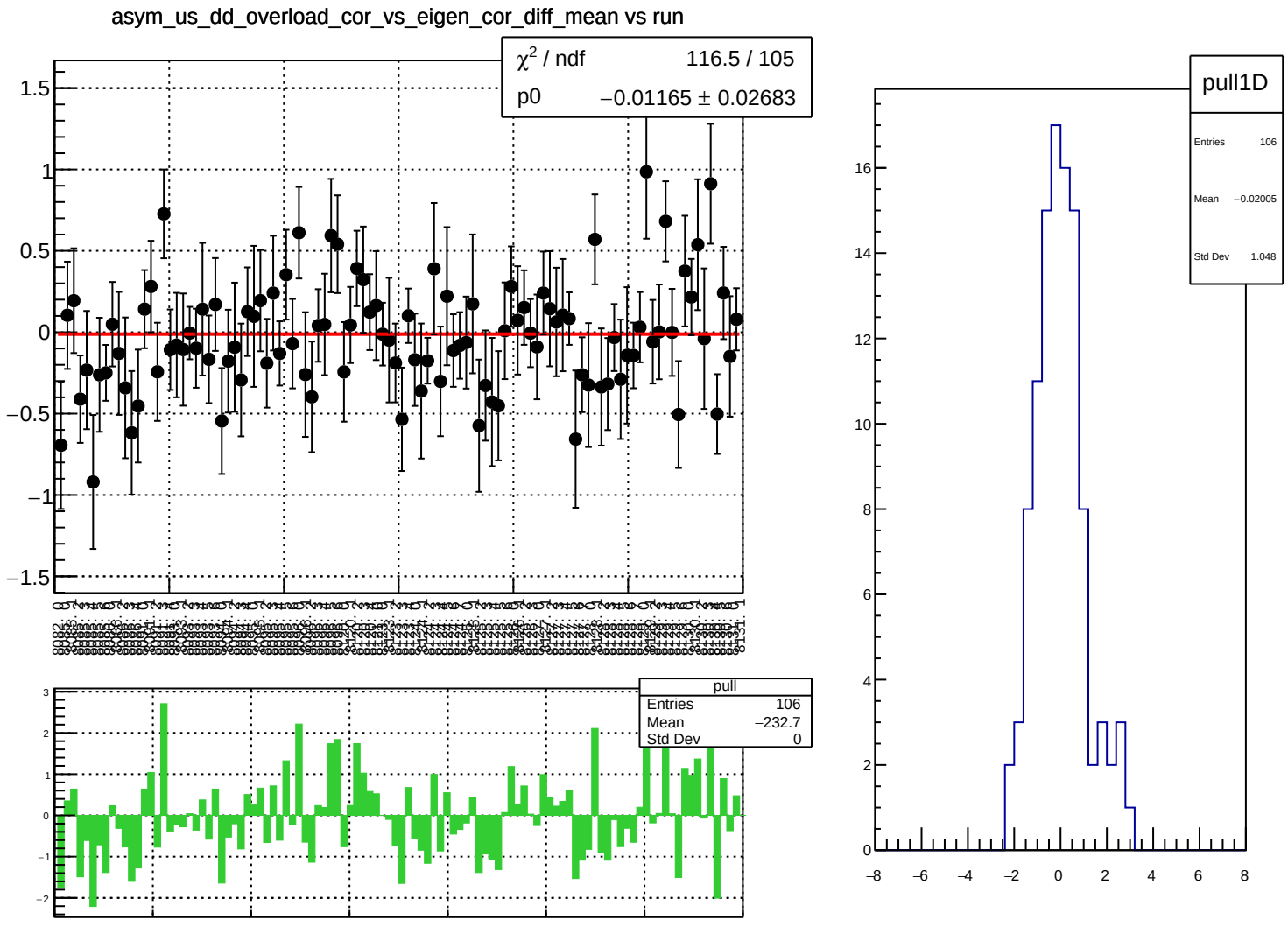

pull1D
Entries 106
Mean −0.0611
Std Dev 0.9047

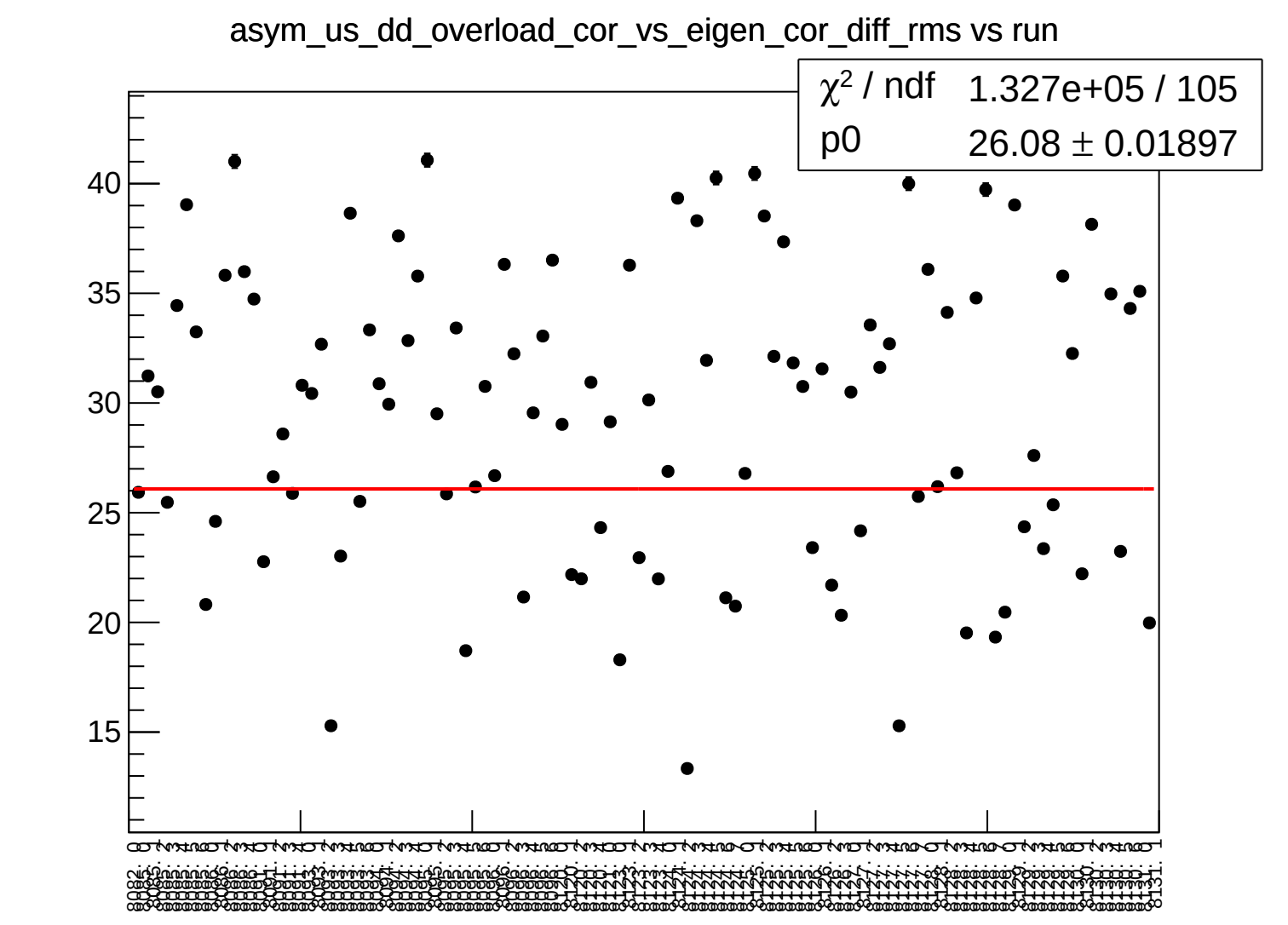

asym_us_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.188e+05 / 105
p0 5.388e−11 ± 4.91e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

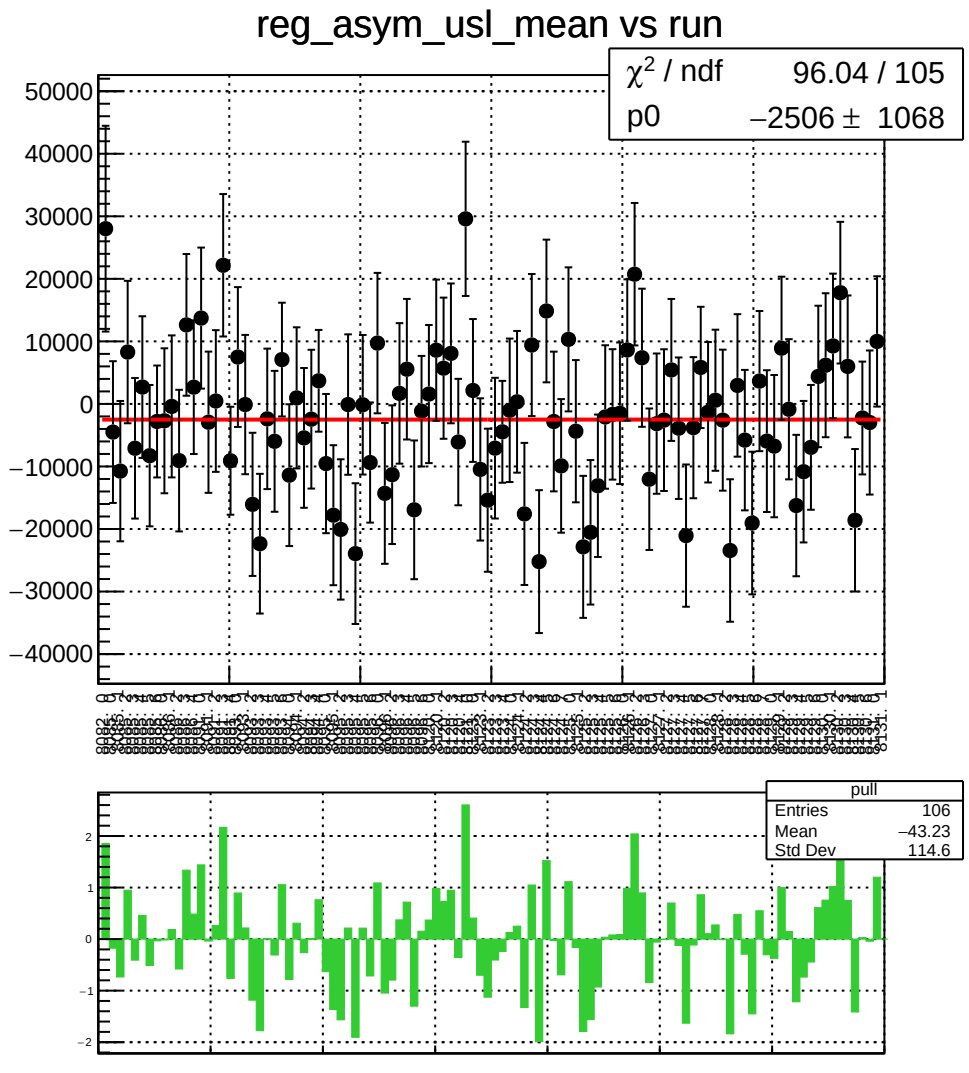

asym_us_dd_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 116.5 / 105
p0 −0.01165 ± 0.02683
pull
Entries 106
Mean −232.7
Std Dev 0

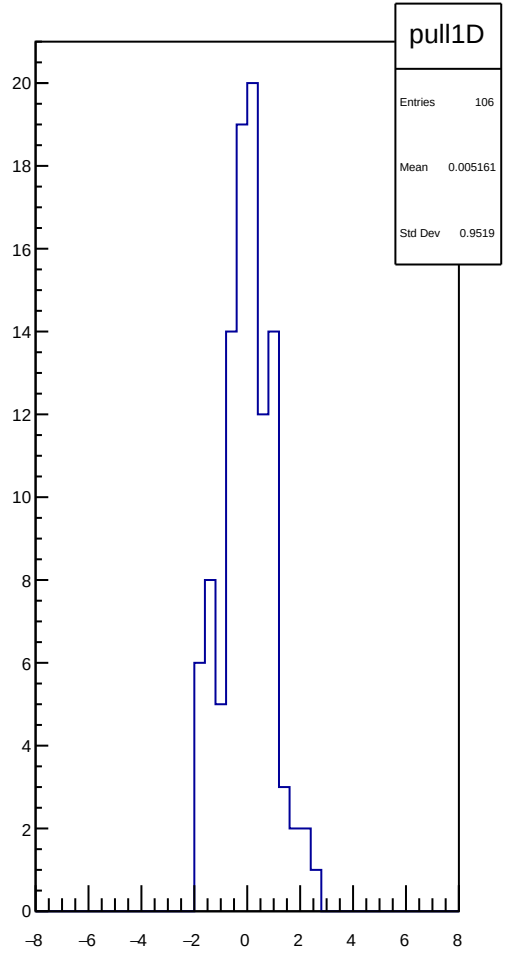

pull1D
Entries 106
Mean −0.02005
Std Dev 1.048

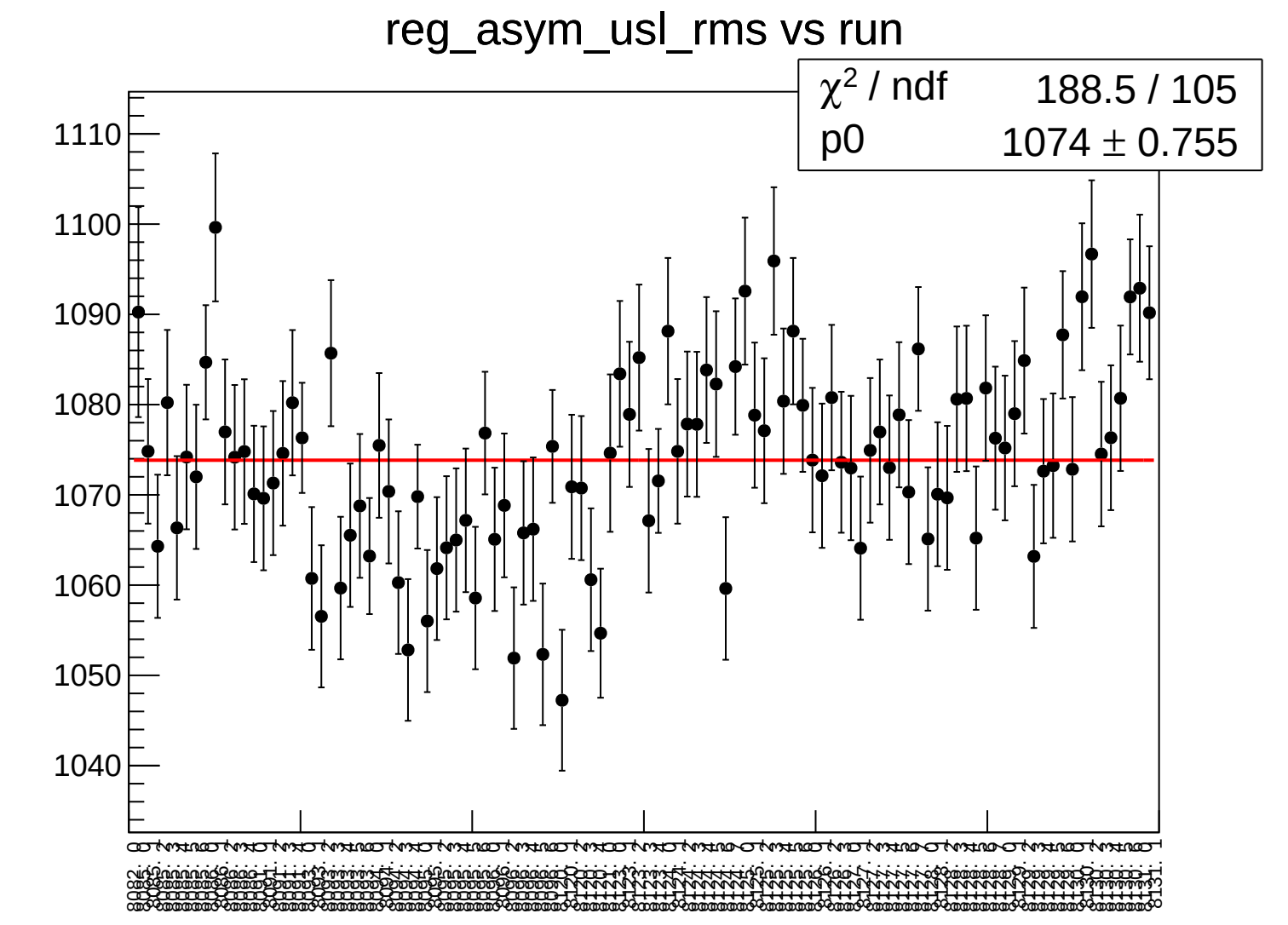

asym_us_dd_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.327e+05 / 105
p0 26.08 ± 0.01897
40
35
30
25
20
15

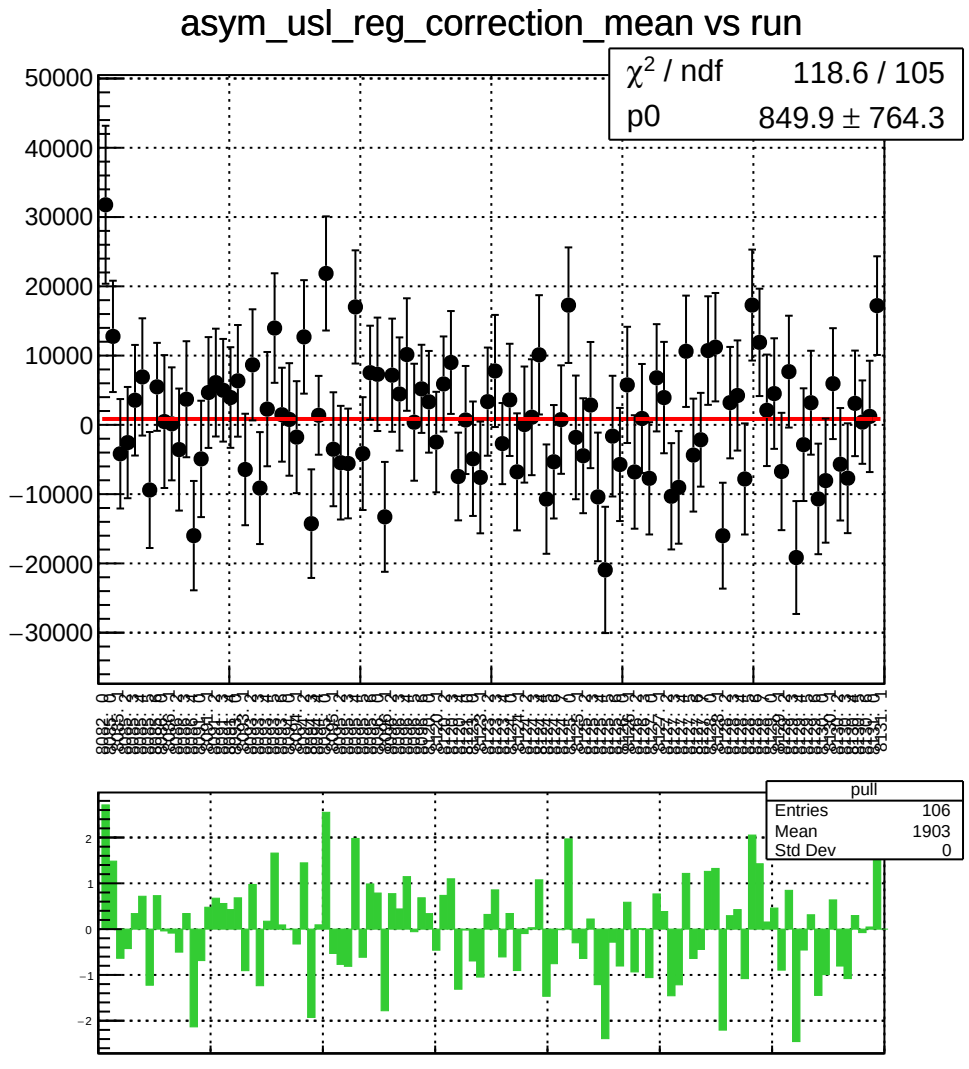

asym_us_dd_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 116.5 / 105
p0 −0.01165 ± 0.02683
pull
Entries 106
Mean −232.7
Std Dev 0
pull1D
Entries 106
Mean −0.02005
Std Dev 1.048

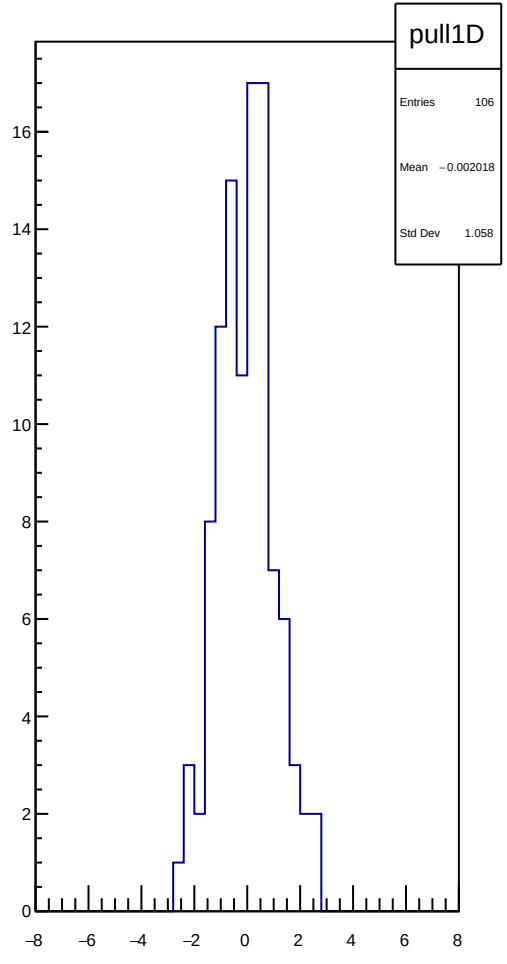

asym_us_dd_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.327e+05 / 105
p0 26.08 ± 0.01897
40
35
30
25
20
15

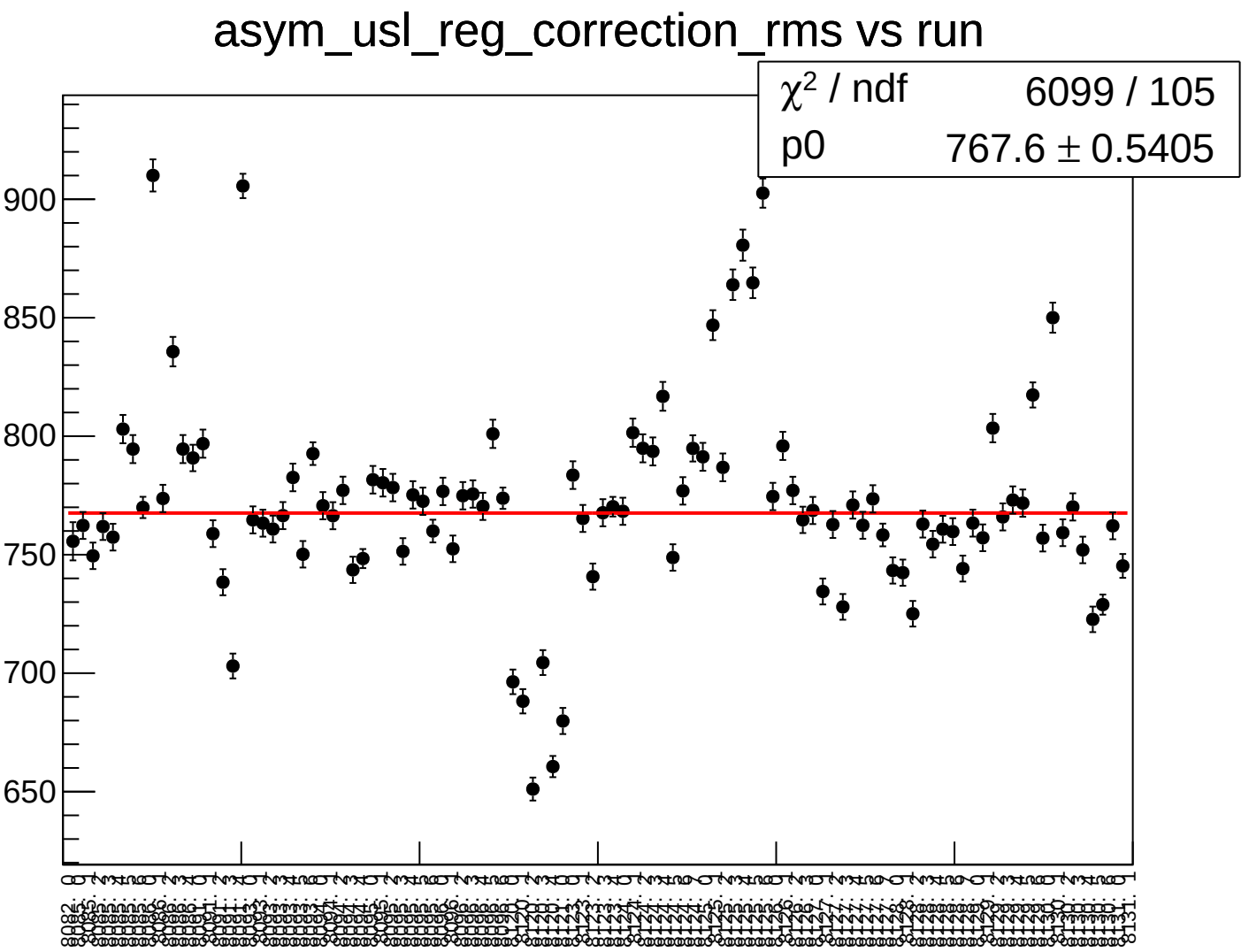

reg_asym_usl_mean vs run
χ² / ndf 96.04 / 105
p0 −2506 ± 1068
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 106
Mean −43.23
Std Dev 114.6
2
1
0
−1
−2

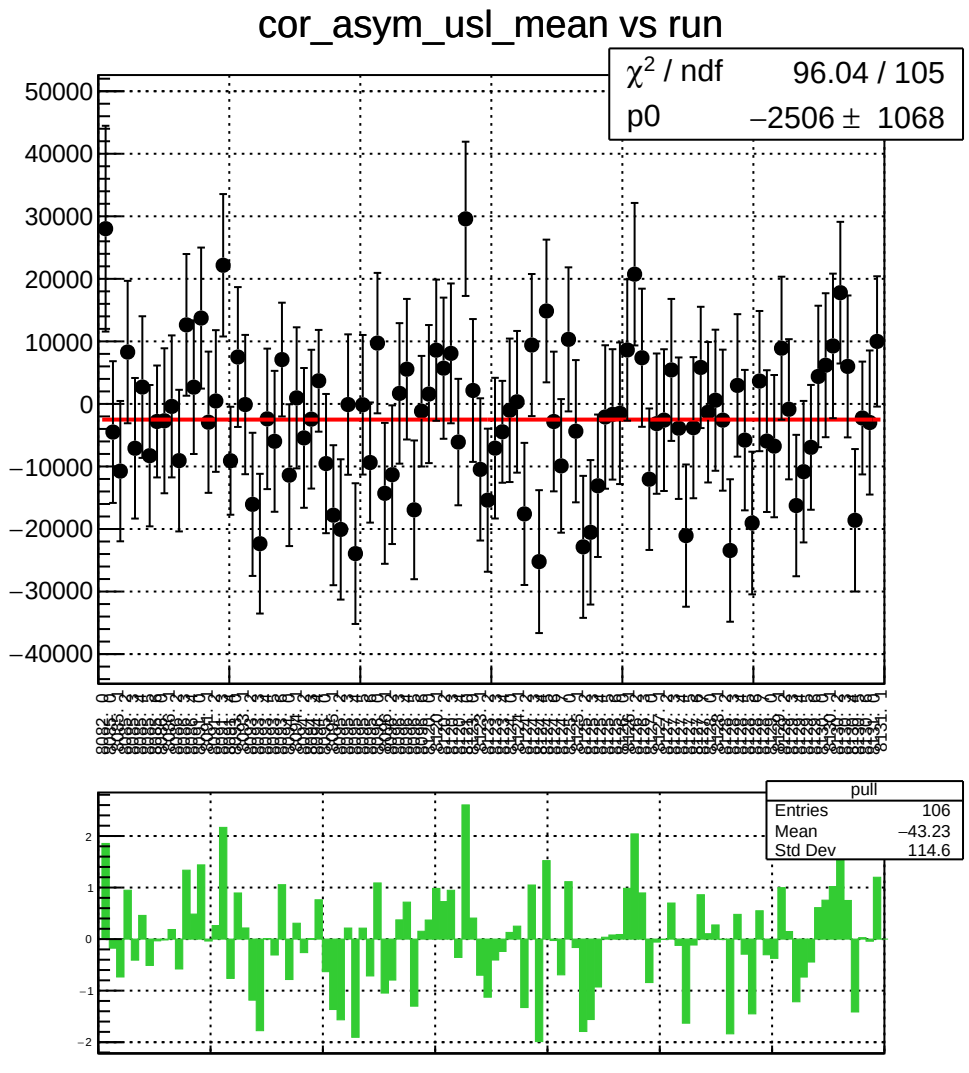

pull1D
Entries 106
Mean 0.005161
Std Dev 0.9519
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

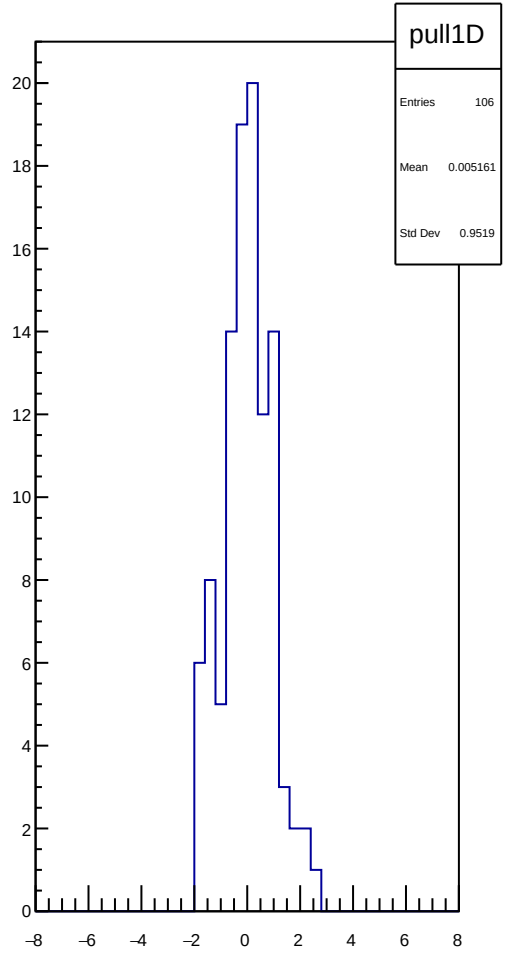

reg_asym_usl_rms vs run
χ² / ndf 188.5 / 105
p0 1074 ± 0.755
1110
1100
1090
1080
1070
1060
1050
1040

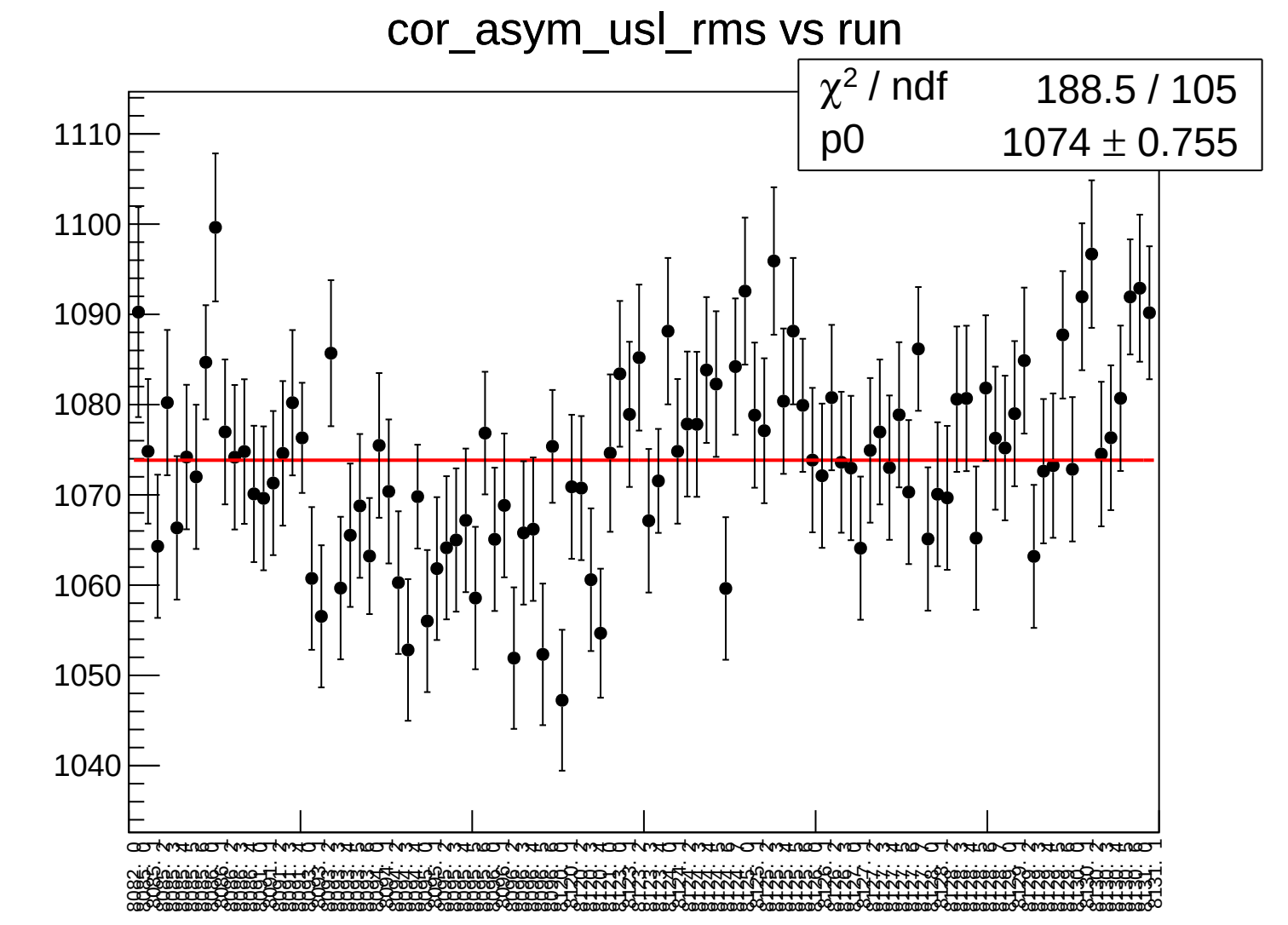

asym_usl_reg_correction_mean vs run
χ² / ndf 118.6 / 105
p0 849.9 ± 764.3
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 106
Mean 1903
Std Dev 0
2
1
0
−1
−2

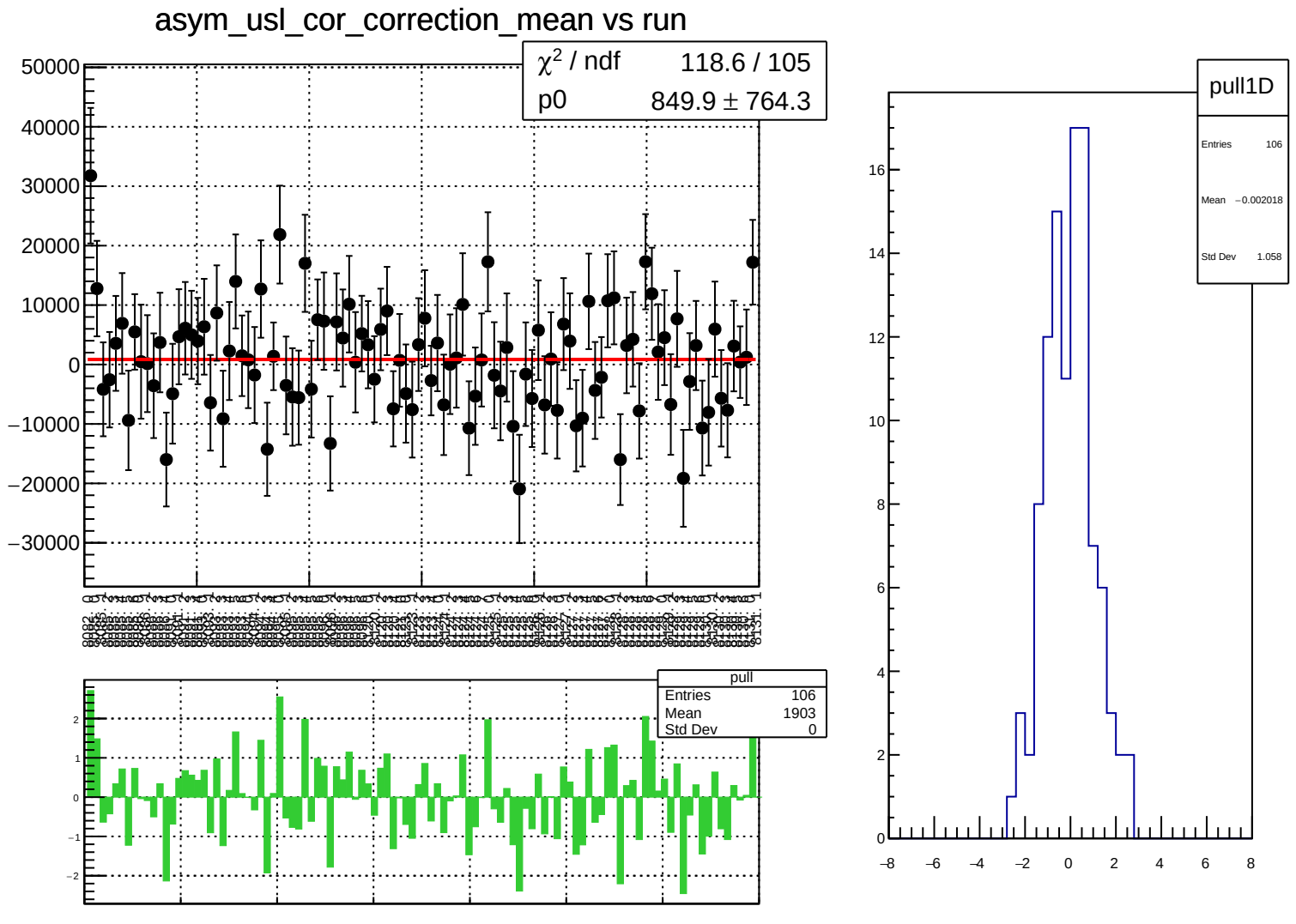

pull1D
Entries 106
Mean −0.002018
Std Dev 1.058
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

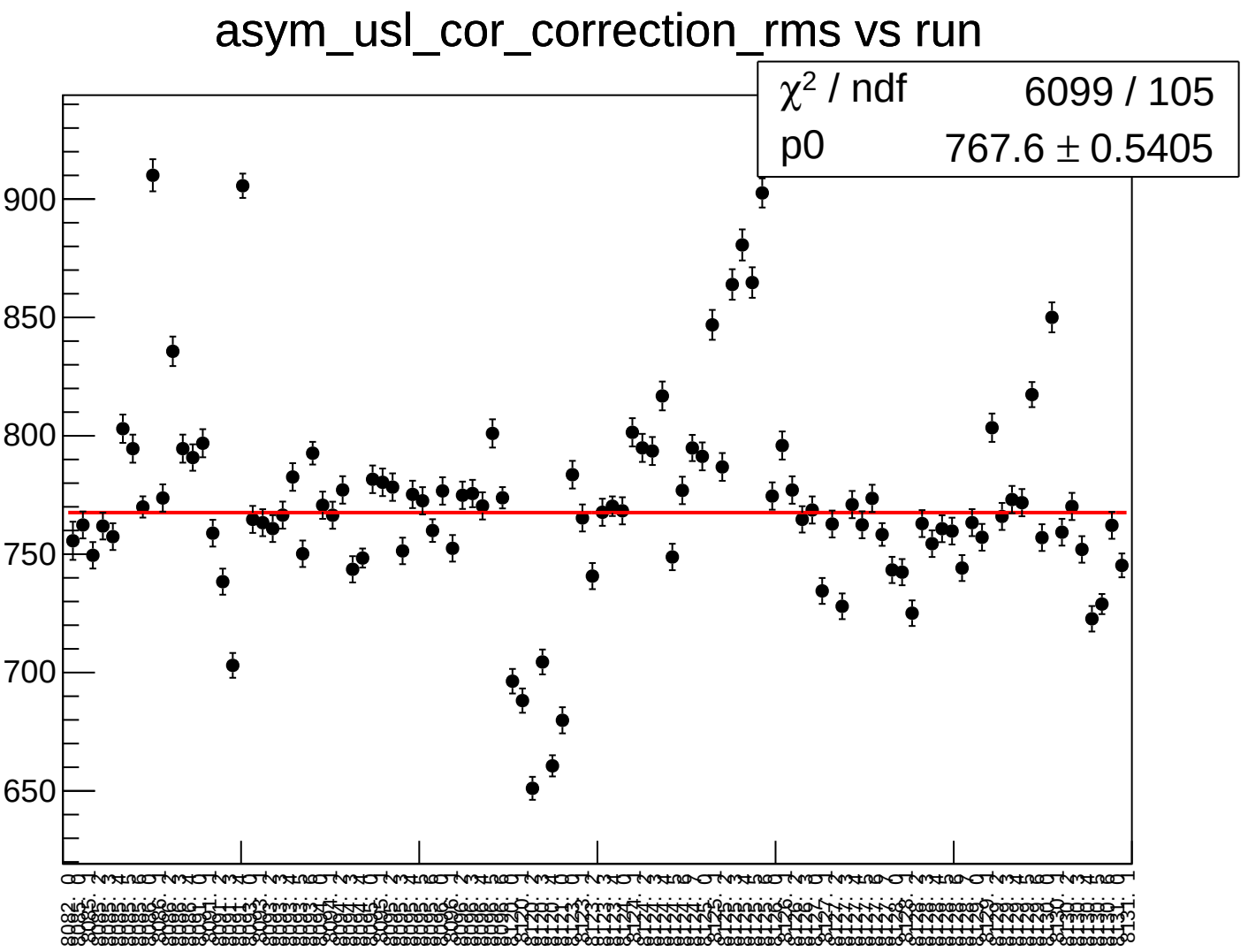

asym_usl_reg_correction_rms vs run
χ² / ndf 6099 / 105
p0 767.6 ± 0.5405
900
850
800
750
700
650

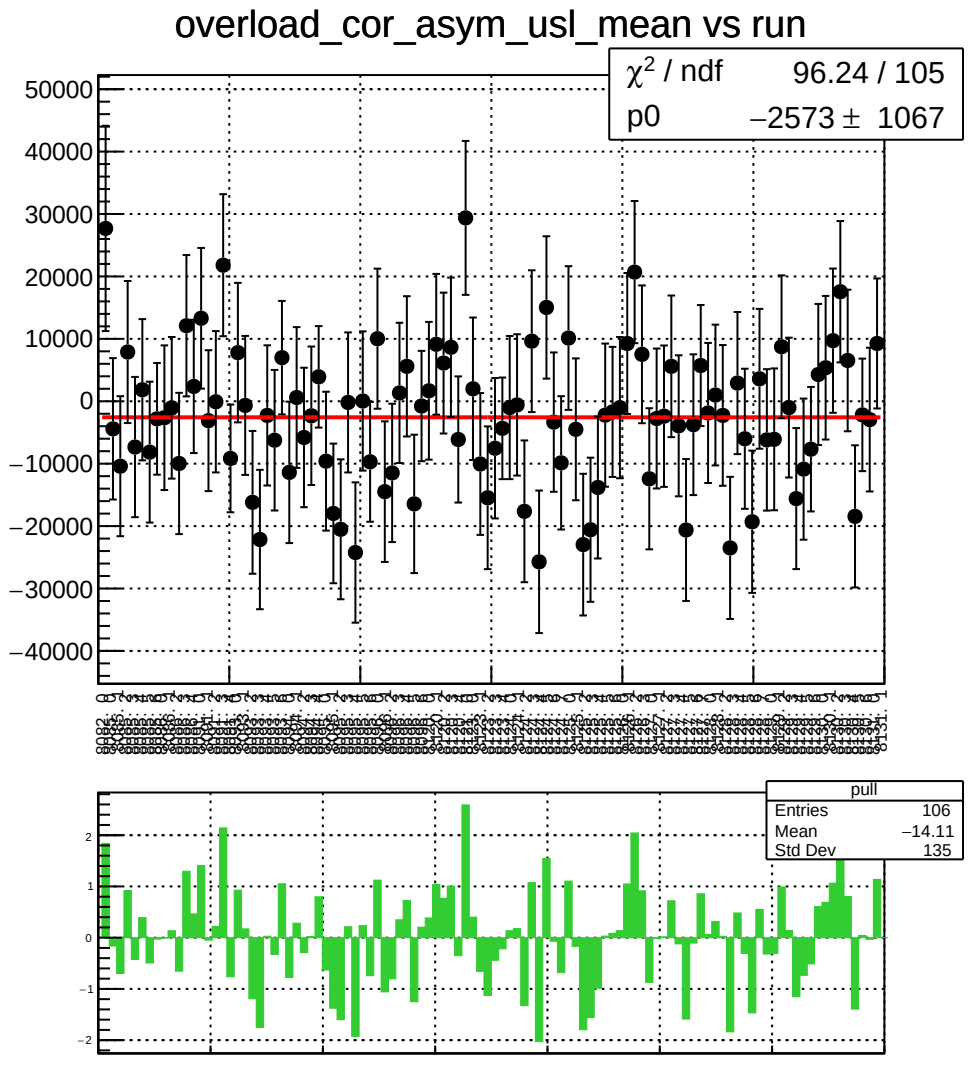

cor_asym_usl_mean vs run
χ² / ndf 96.04 / 105
p0 −2506 ± 1068
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 106
Mean −43.23
Std Dev 114.6
2
1
0
−1
−2

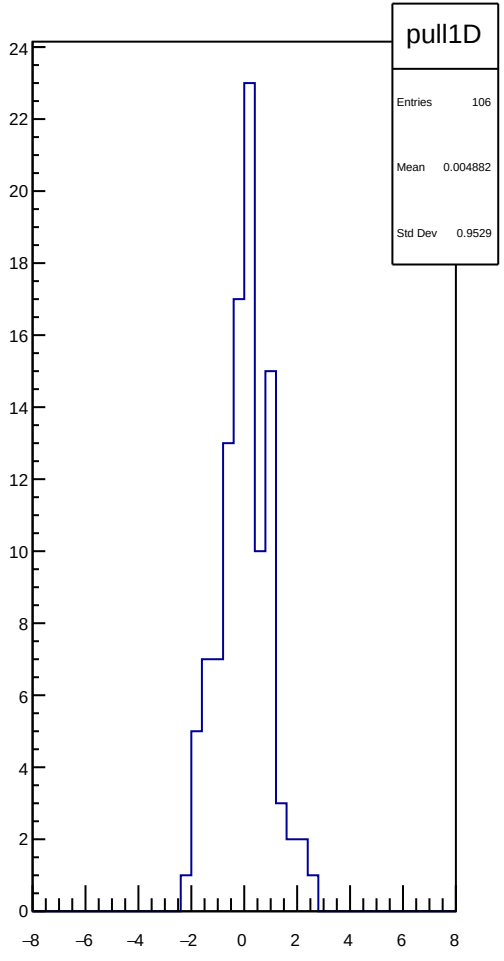

pull1D
Entries 106
Mean 0.005161
Std Dev 0.9519
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

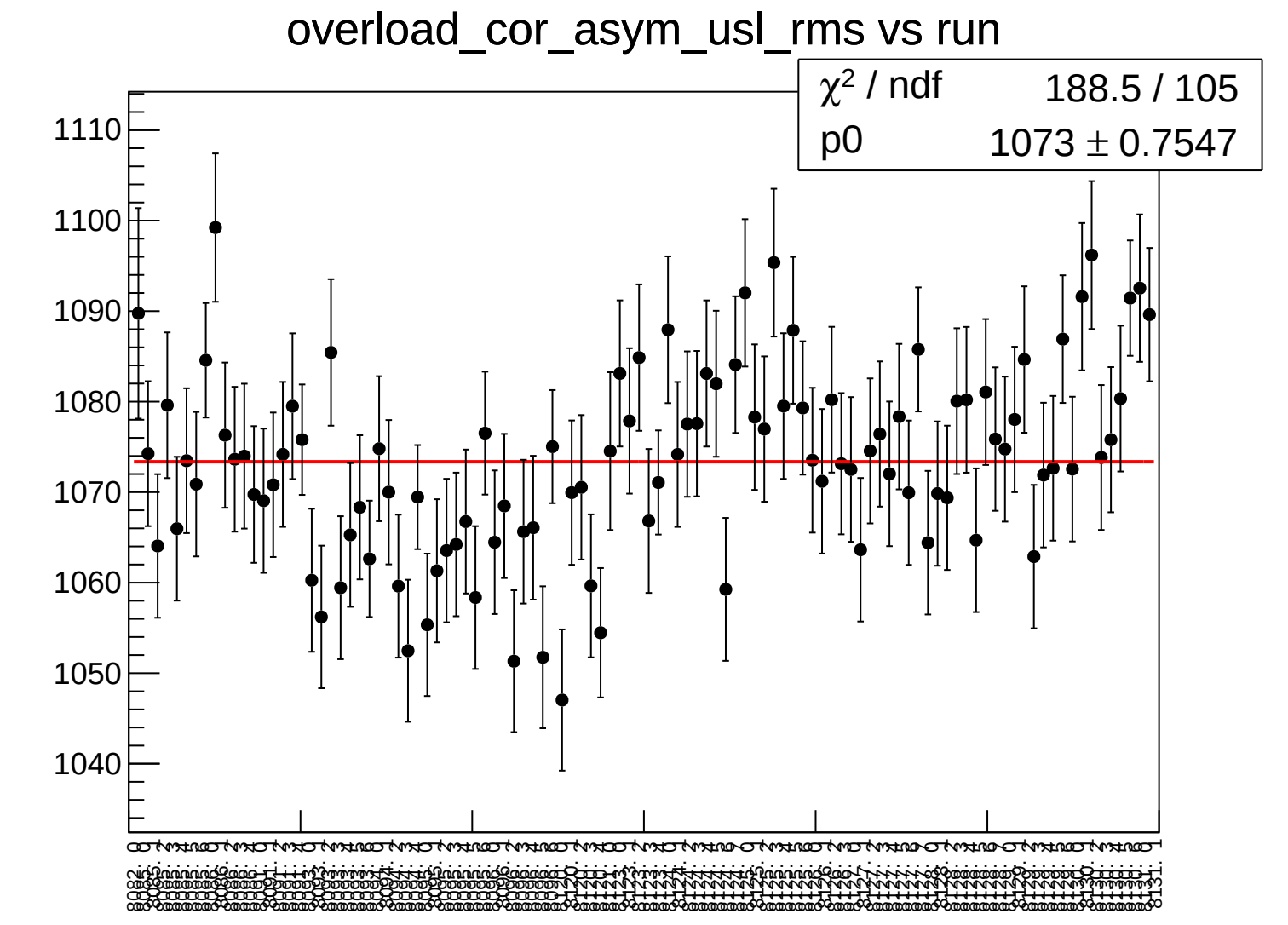

cor_asym_usl_rms vs run
χ² / ndf 188.5 / 105
p0 1074 ± 0.755
1110
1100
1090
1080
1070
1060
1050
1040

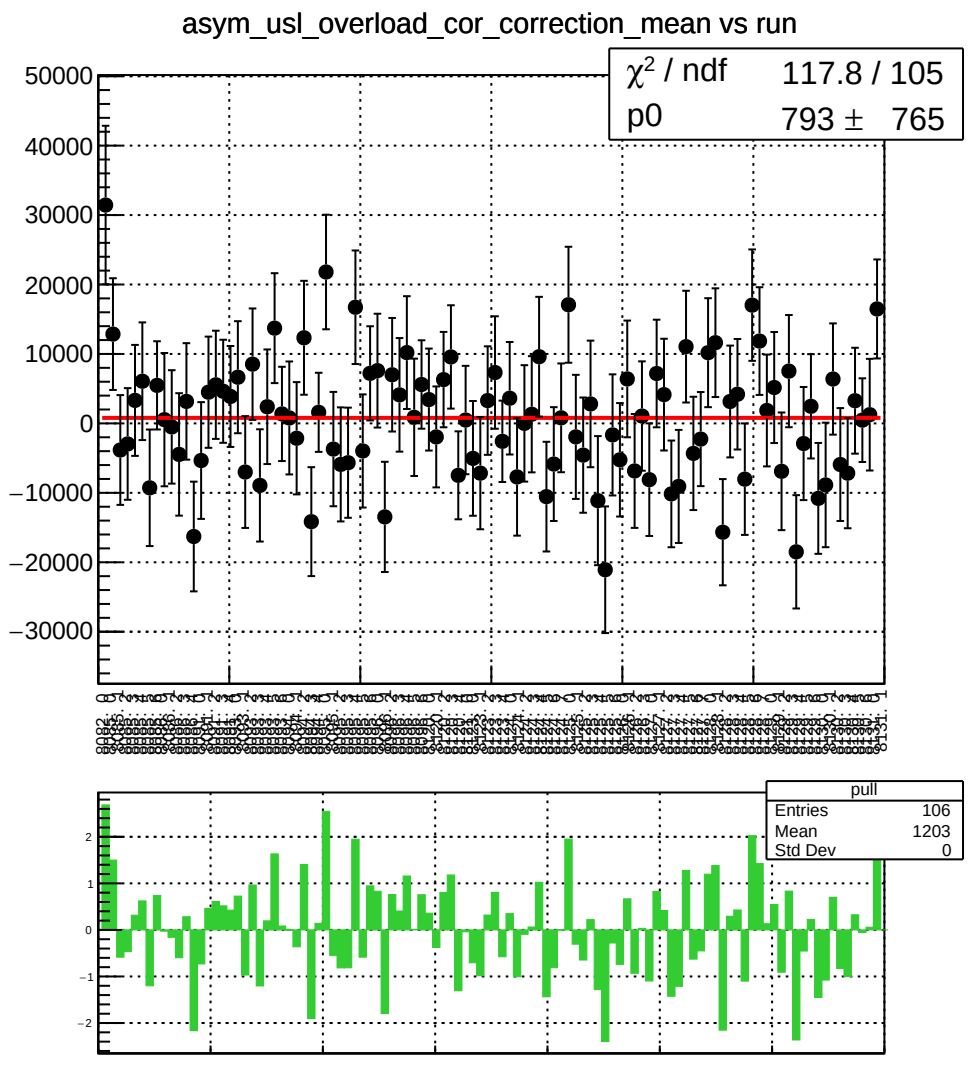

asym_usl_cor_correction_mean vs run
χ² / ndf 118.6 / 105
p0 849.9 ± 764.3
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 106
Mean 1903
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 106
Mean −0.002018
Std Dev 1.058
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

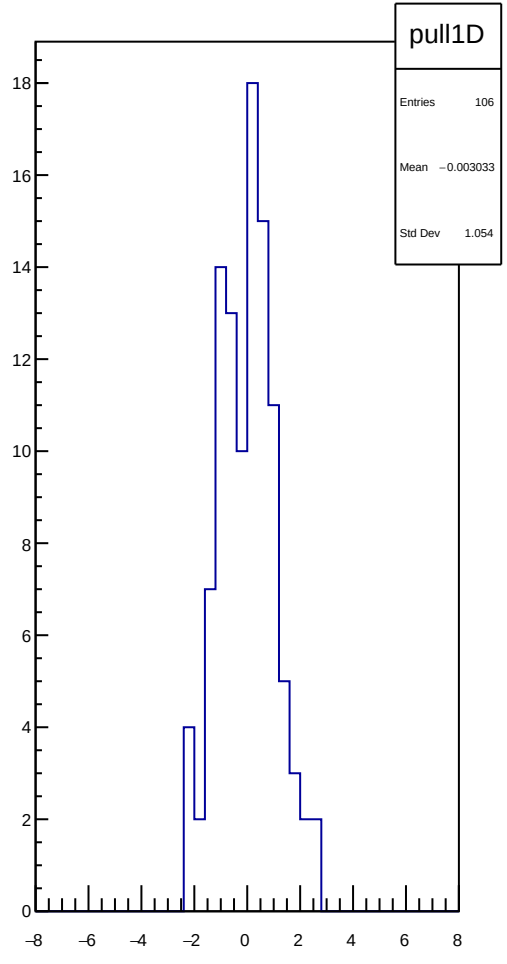

asym_usl_cor_correction_rms vs run
χ² / ndf 6099 / 105
p0 767.6 ± 0.5405
900
850
800
750
700
650

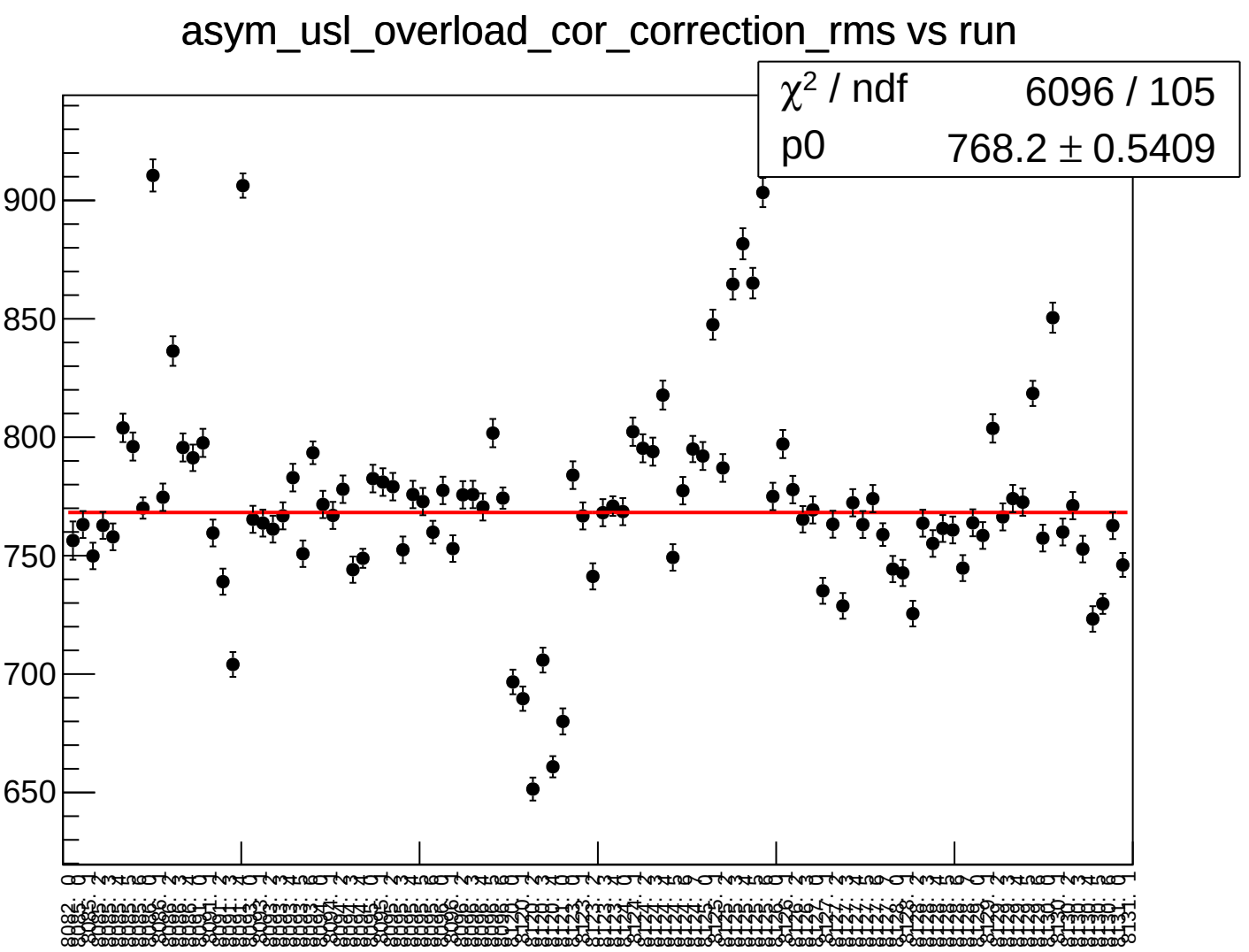

overload_cor_asym_usl_mean vs run
χ² / ndf 96.24 / 105
p0 −2573 ± 1067
pull
Entries 106
Mean −14.11
Std Dev 135

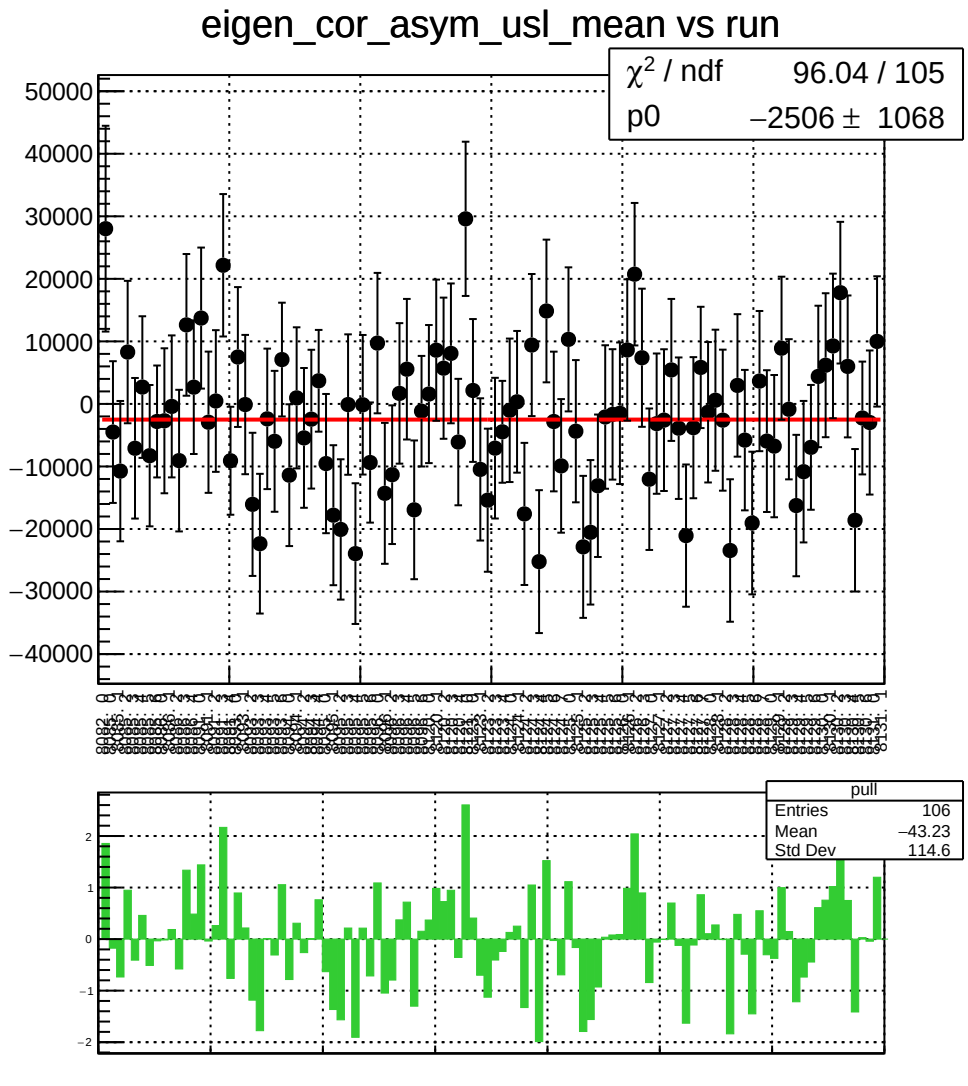

pull1D
Entries 106
Mean 0.004882
Std Dev 0.9529

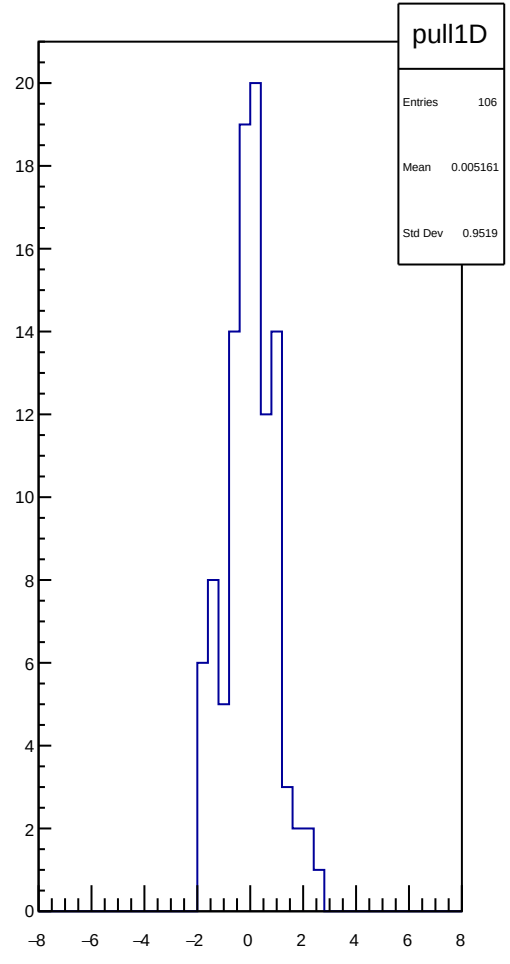

overload_cor_asym_usl_rms vs run
$\chi^2$ / ndf 188.5 / 105
p0 1073 ± 0.7547
1110
1100
1090
1080
1070
1060
1050
1040

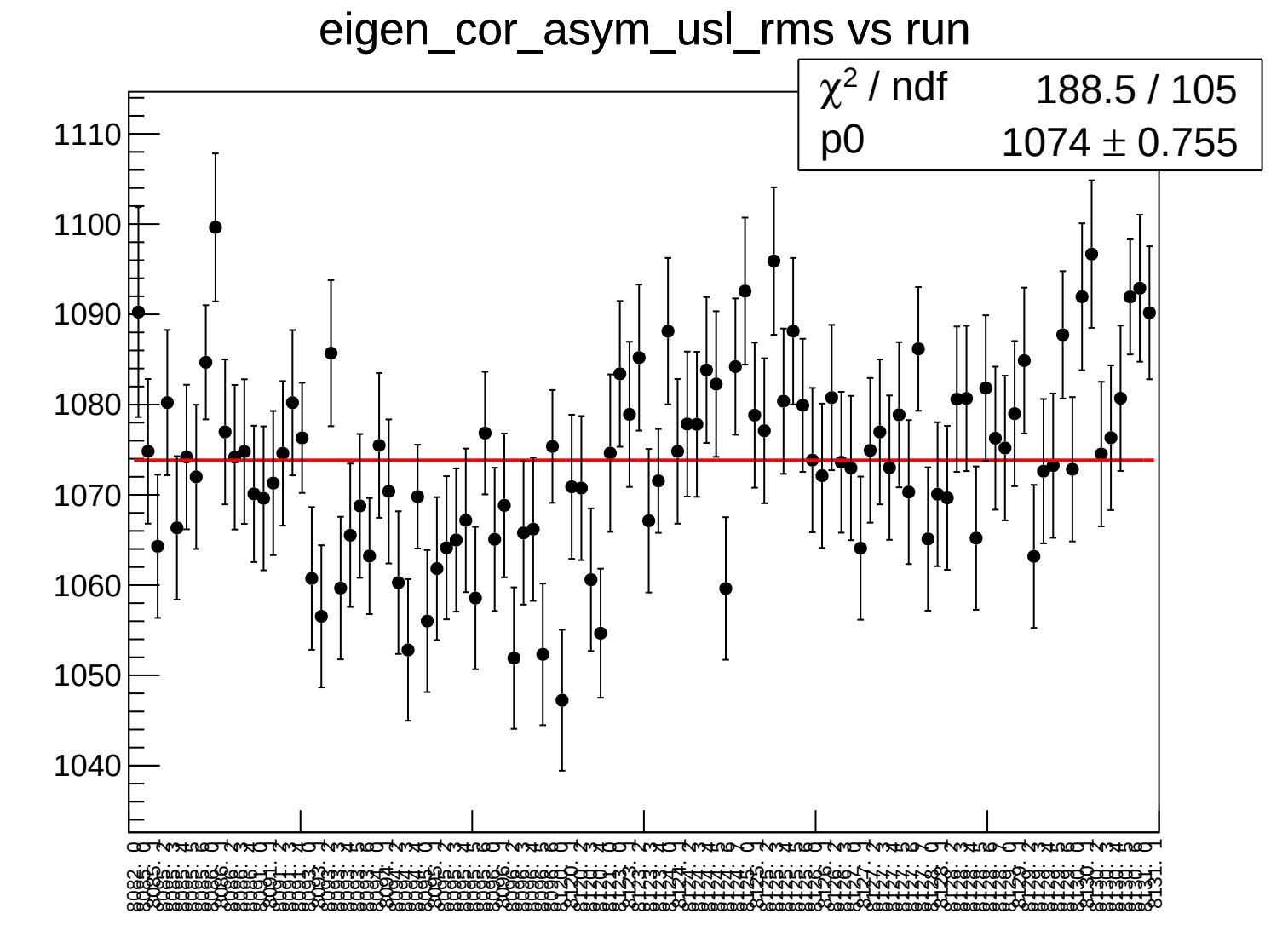

asym_usl_overload_cor_correction_mean vs run
χ² / ndf 117.8 / 105
p0 793 ± 765
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 106
Mean 1203
Std Dev 0
2
1
0
−1
−2

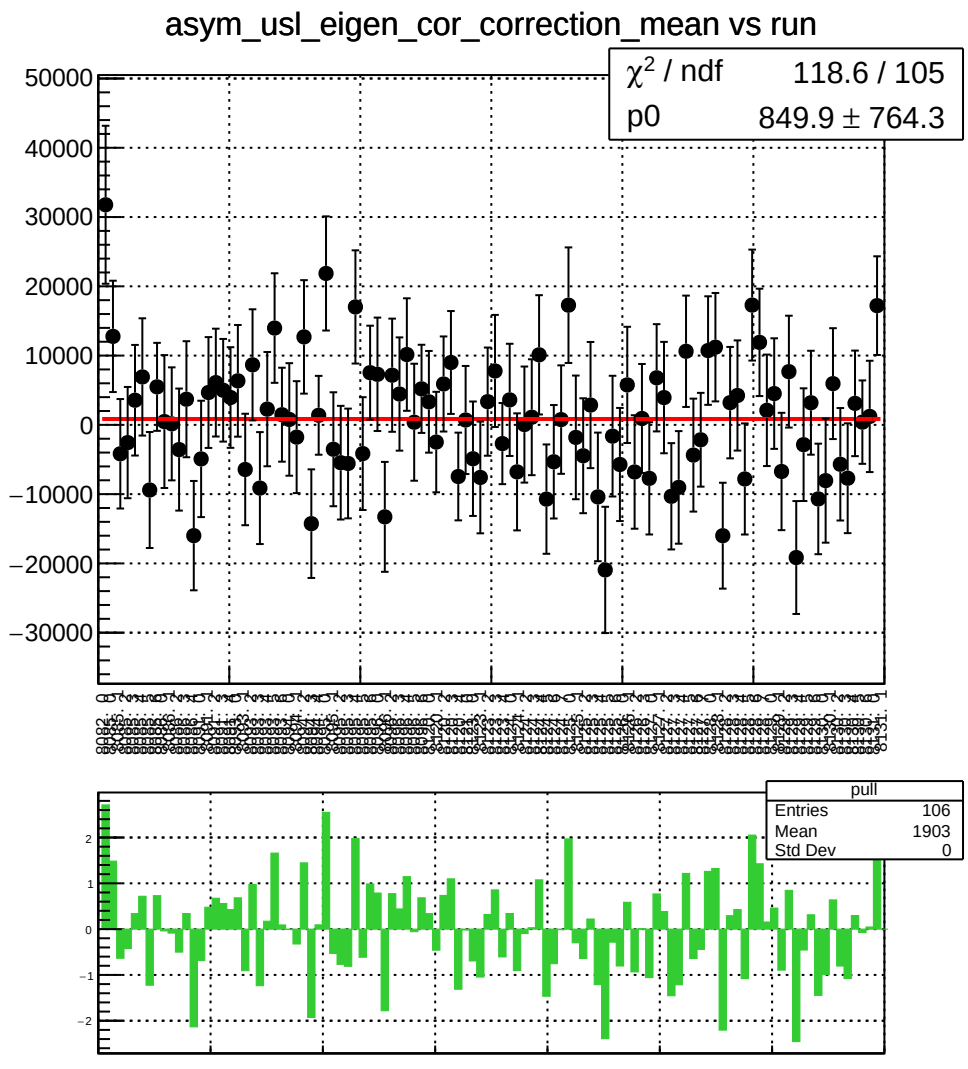

pull1D
Entries 106
Mean −0.003033
Std Dev 1.054
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

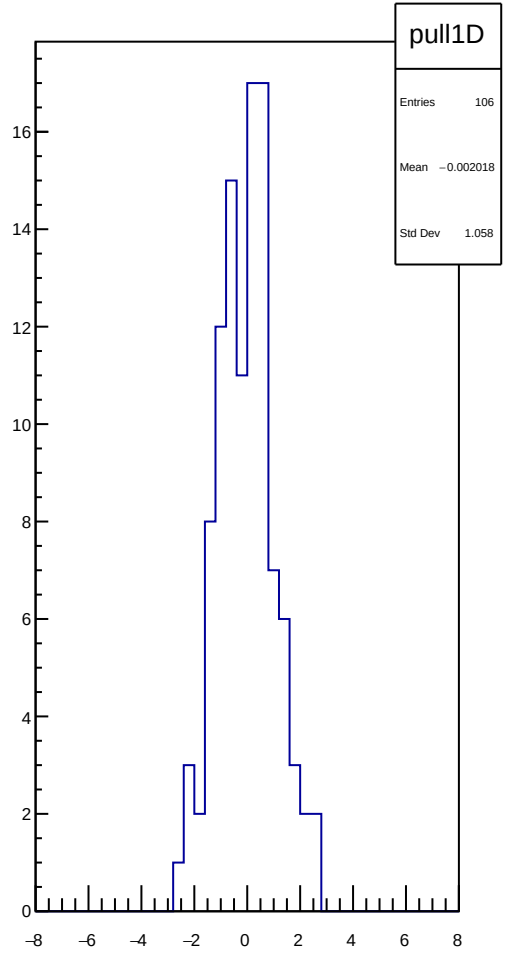

asym_usl_overload_cor_correction_rms vs run
χ² / ndf 6096 / 105
p0 768.2 ± 0.5409
900
850
800
750
700
650

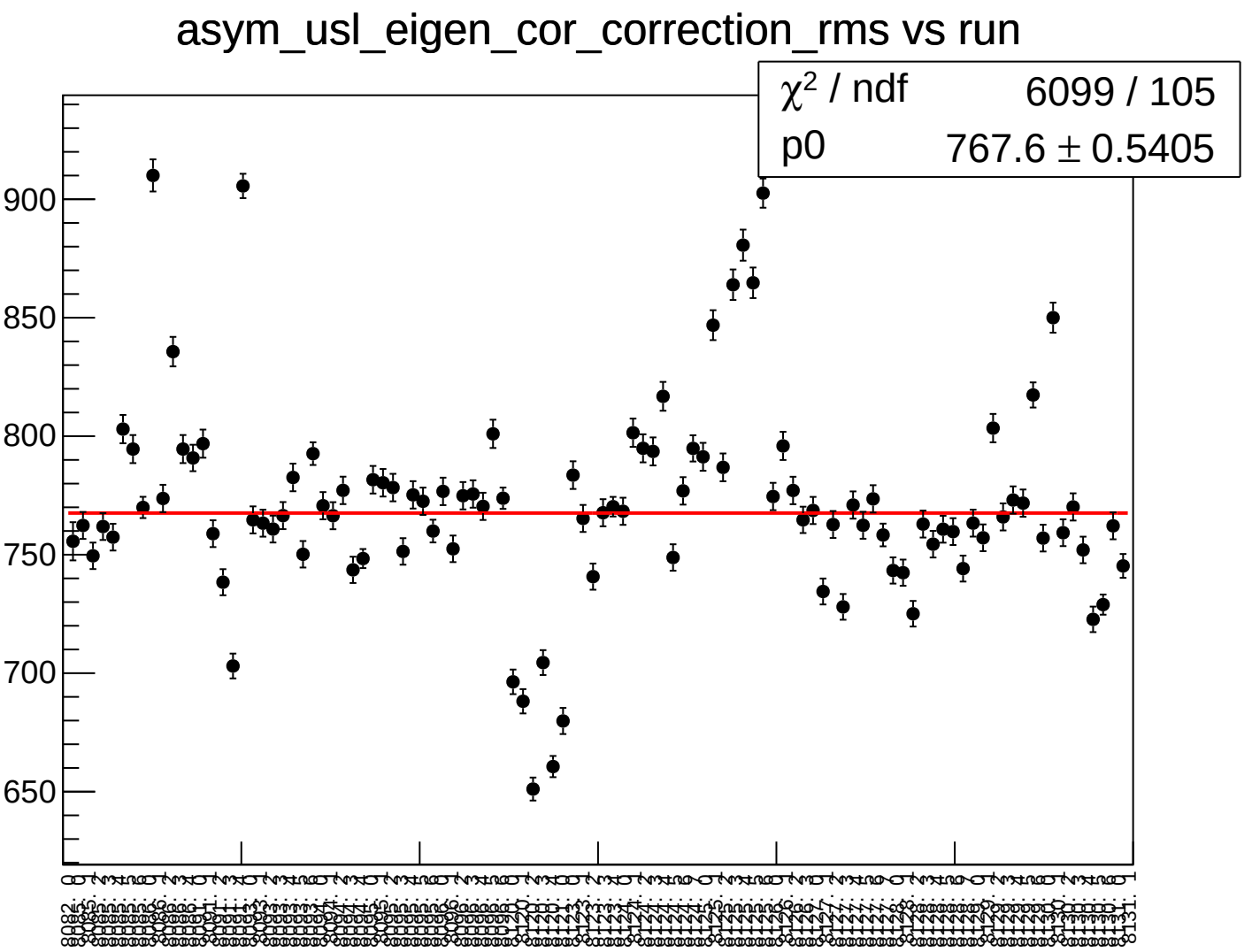

eigen_cor_asym_usl_mean vs run
χ² / ndf 96.04 / 105
p0 −2506 ± 1068
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 106
Mean −43.23
Std Dev 114.6
2
1
0
−1
−2

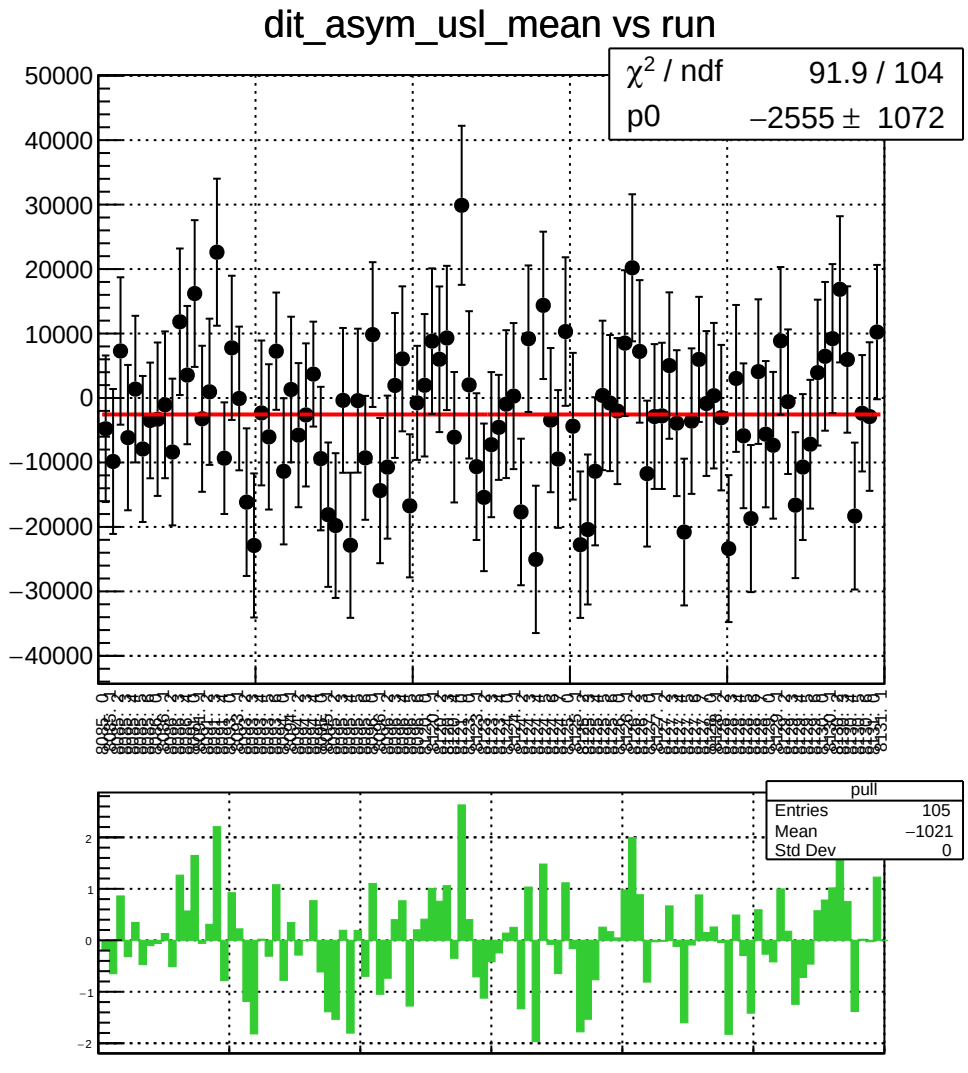

pull1D
Entries 106
Mean 0.005161
Std Dev 0.9519
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

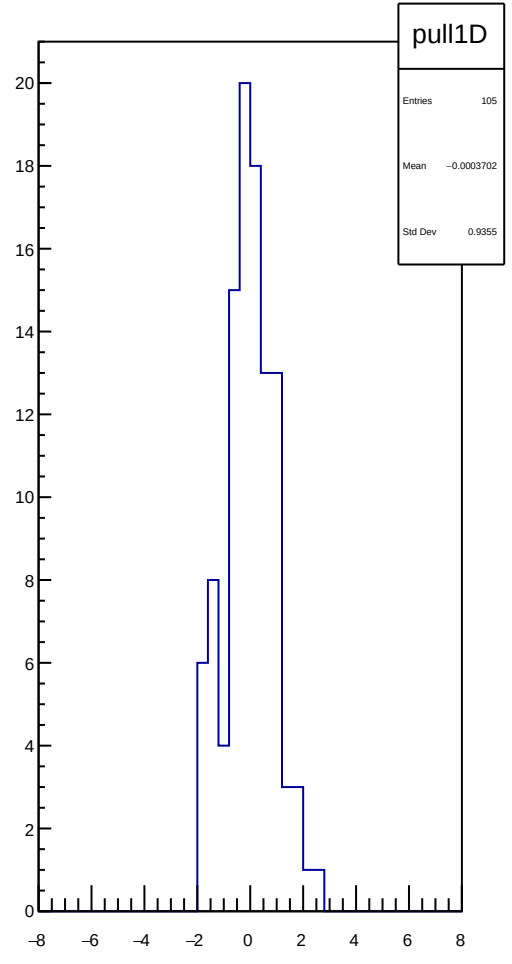

eigen_cor_asym_usl_rms vs run
χ² / ndf 188.5 / 105
p0 1074 ± 0.755
1110
1100
1090
1080
1070
1060
1050
1040

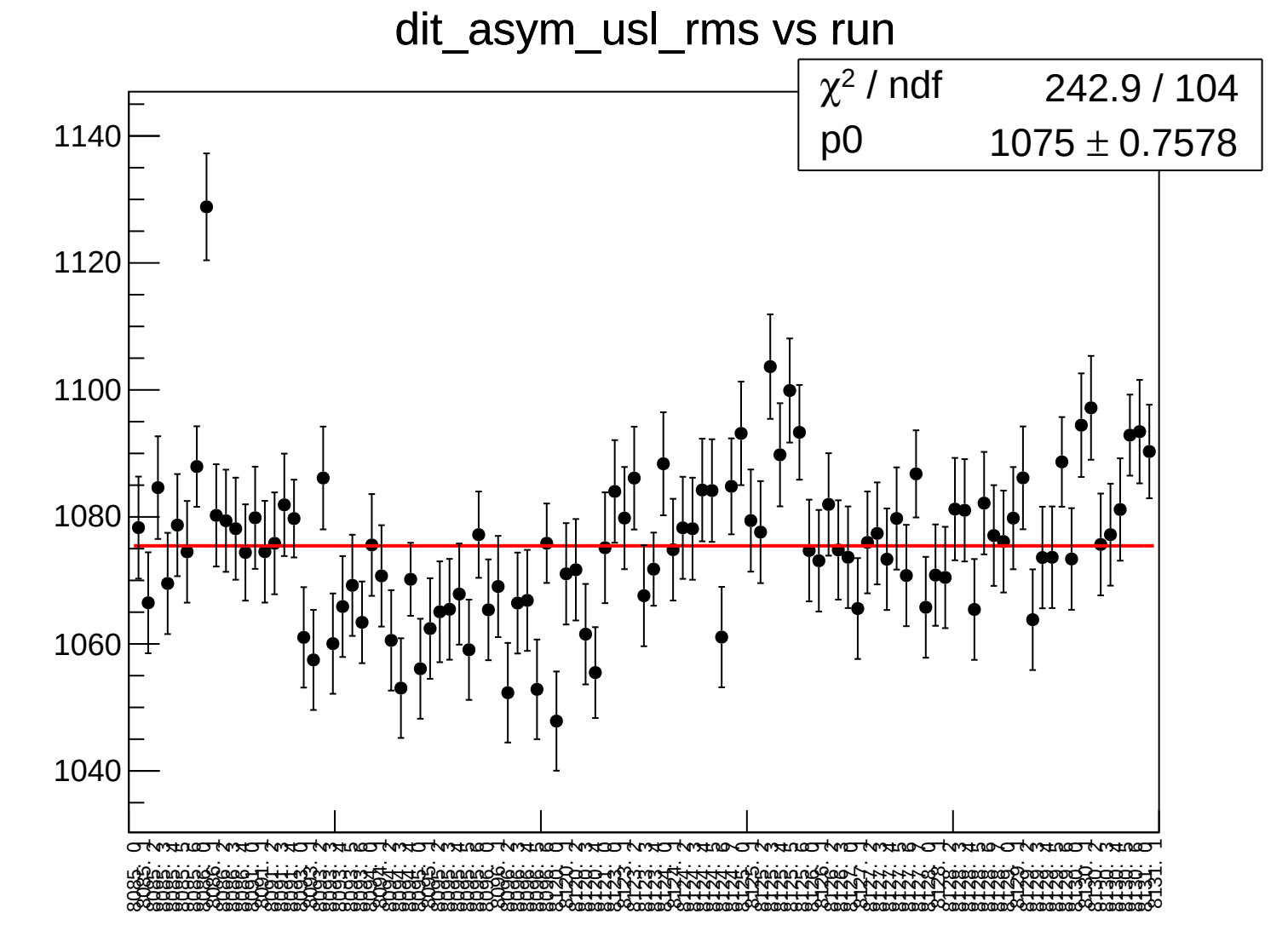

asym_usl_eigen_cor_correction_mean vs run
χ² / ndf 118.6 / 105
p0 849.9 ± 764.3
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 106
Mean 1903
Std Dev 0
2
1
0
−1
−2

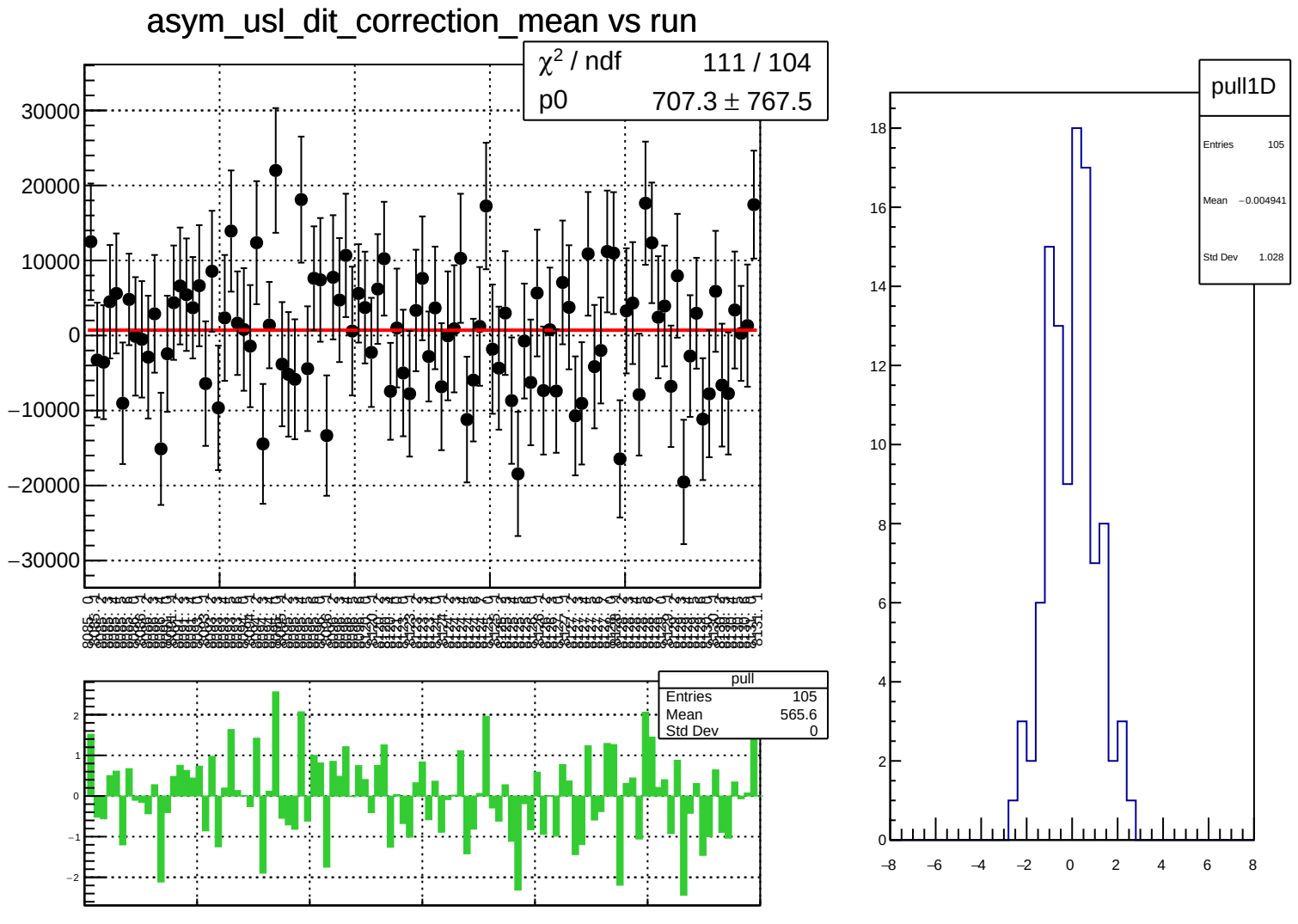

pull1D
Entries 106
Mean −0.002018
Std Dev 1.058
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

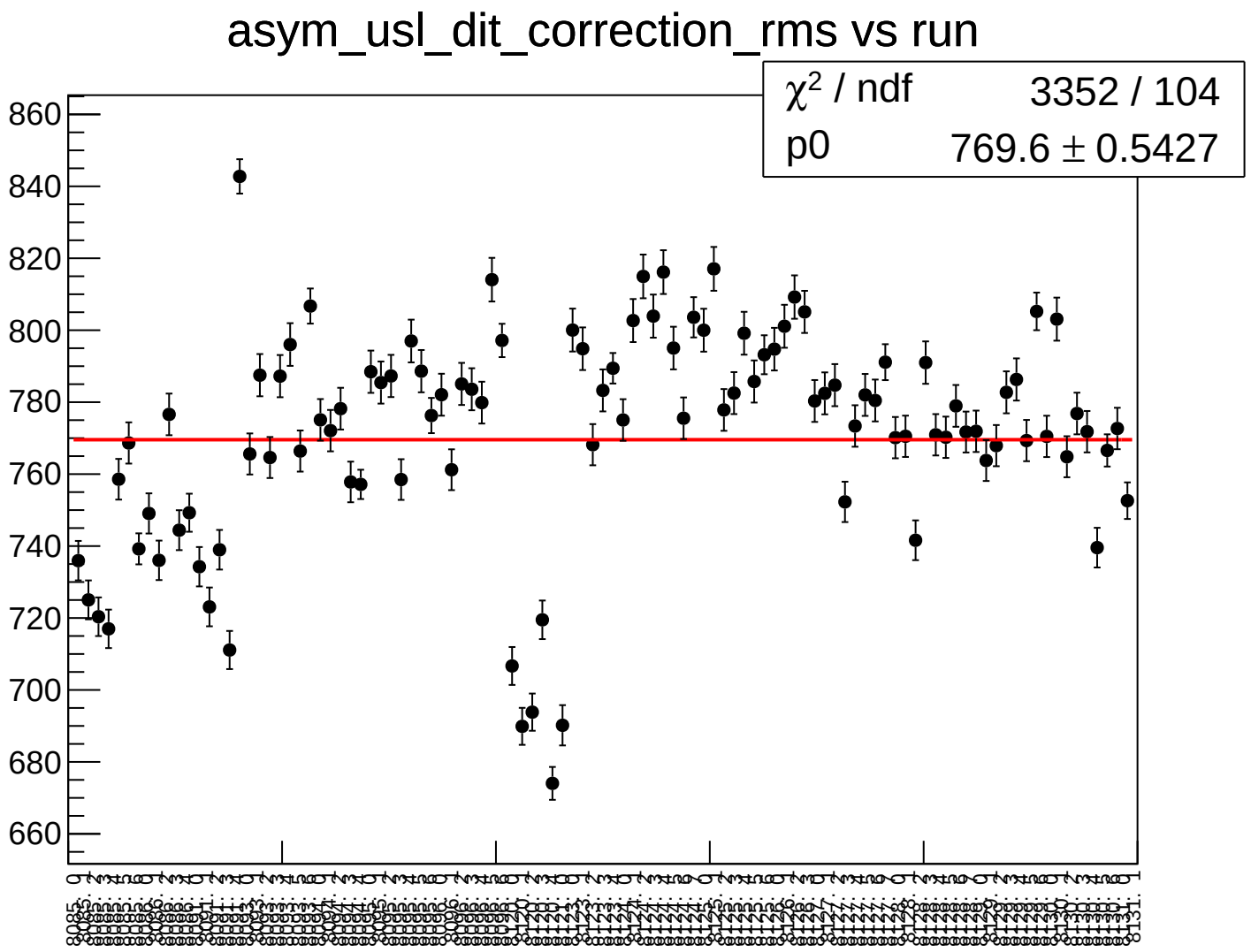

asym_usl_eigen_cor_correction_rms vs run
χ² / ndf 6099 / 105
p0 767.6 ± 0.5405
900
850
800
750
700
650

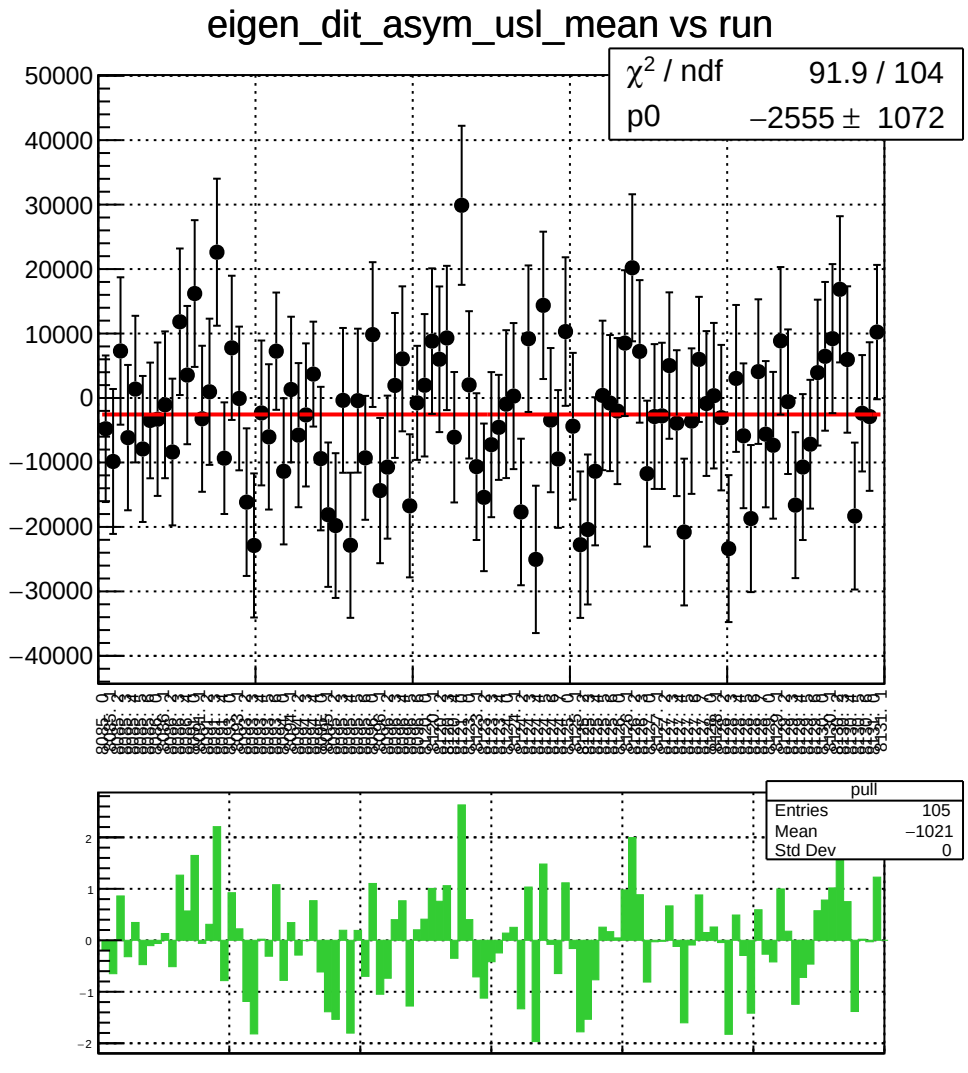

dit_asym_usl_mean vs run
χ² / ndf 91.9 / 104
p0 −2555 ± 1072
pull
Entries 105
Mean −1021
Std Dev 0

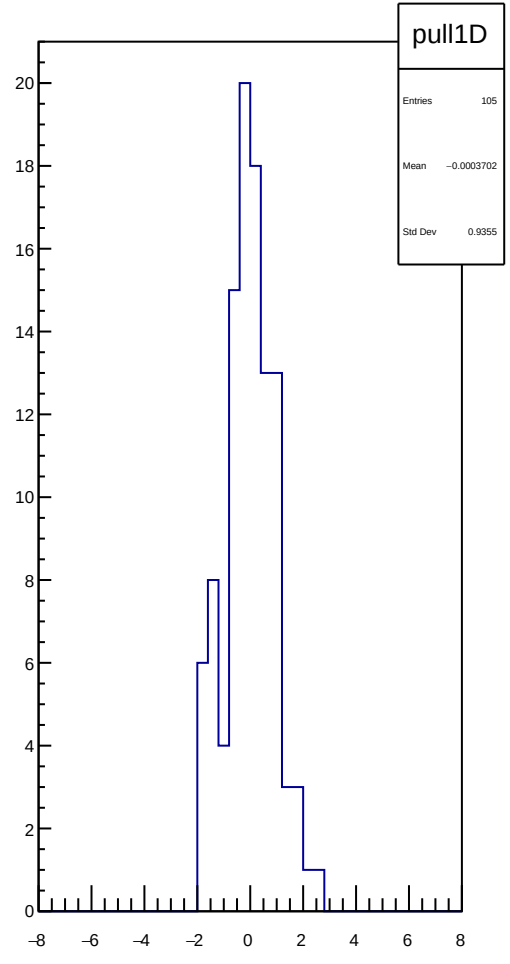

pull1D
Entries 105
Mean −0.0003702
Std Dev 0.9355

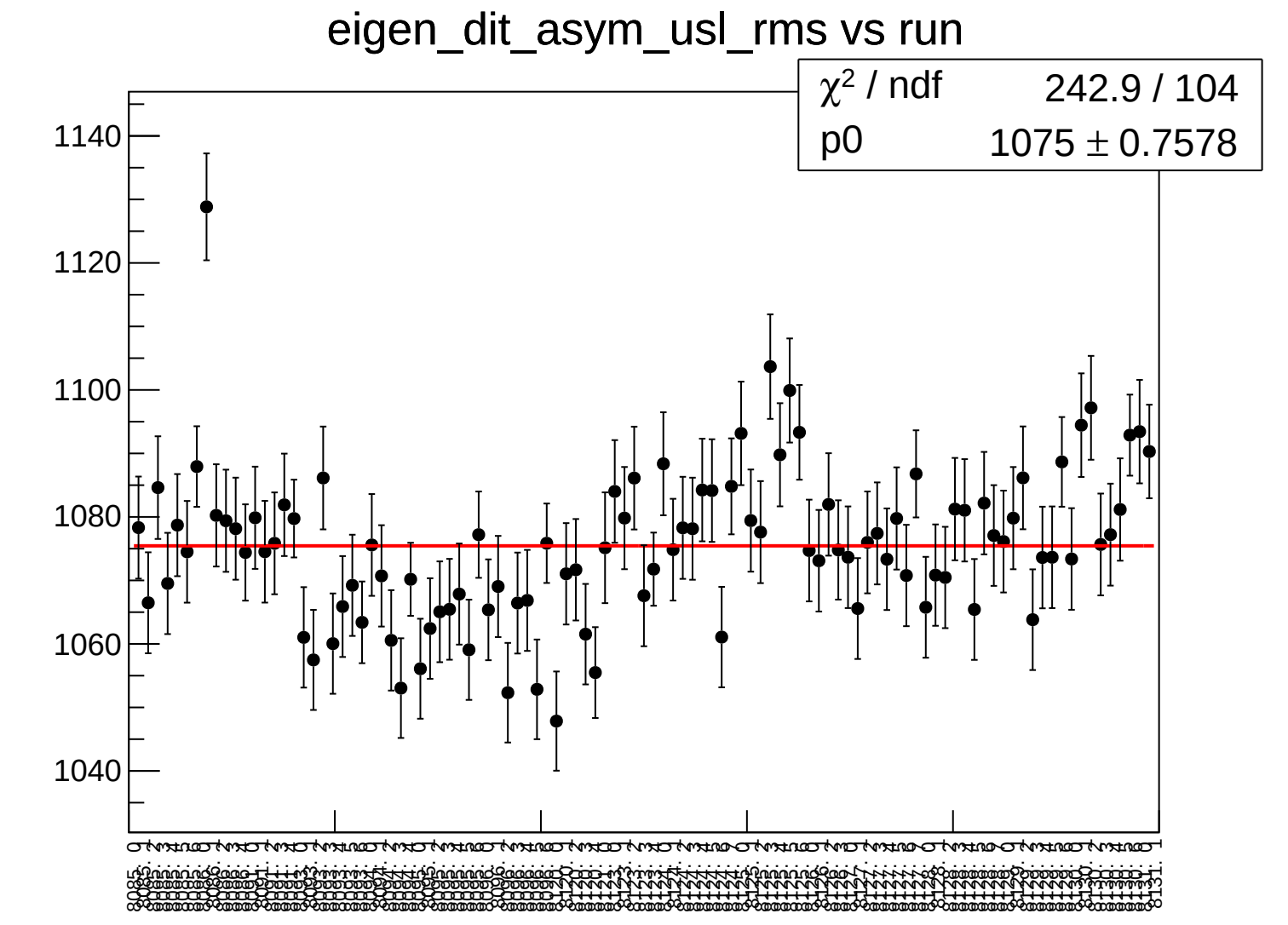

dit_asym_usl_rms vs run
χ² / ndf 242.9 / 104
p0 1075 ± 0.7578
1140
1120
1100
1080
1060
1040

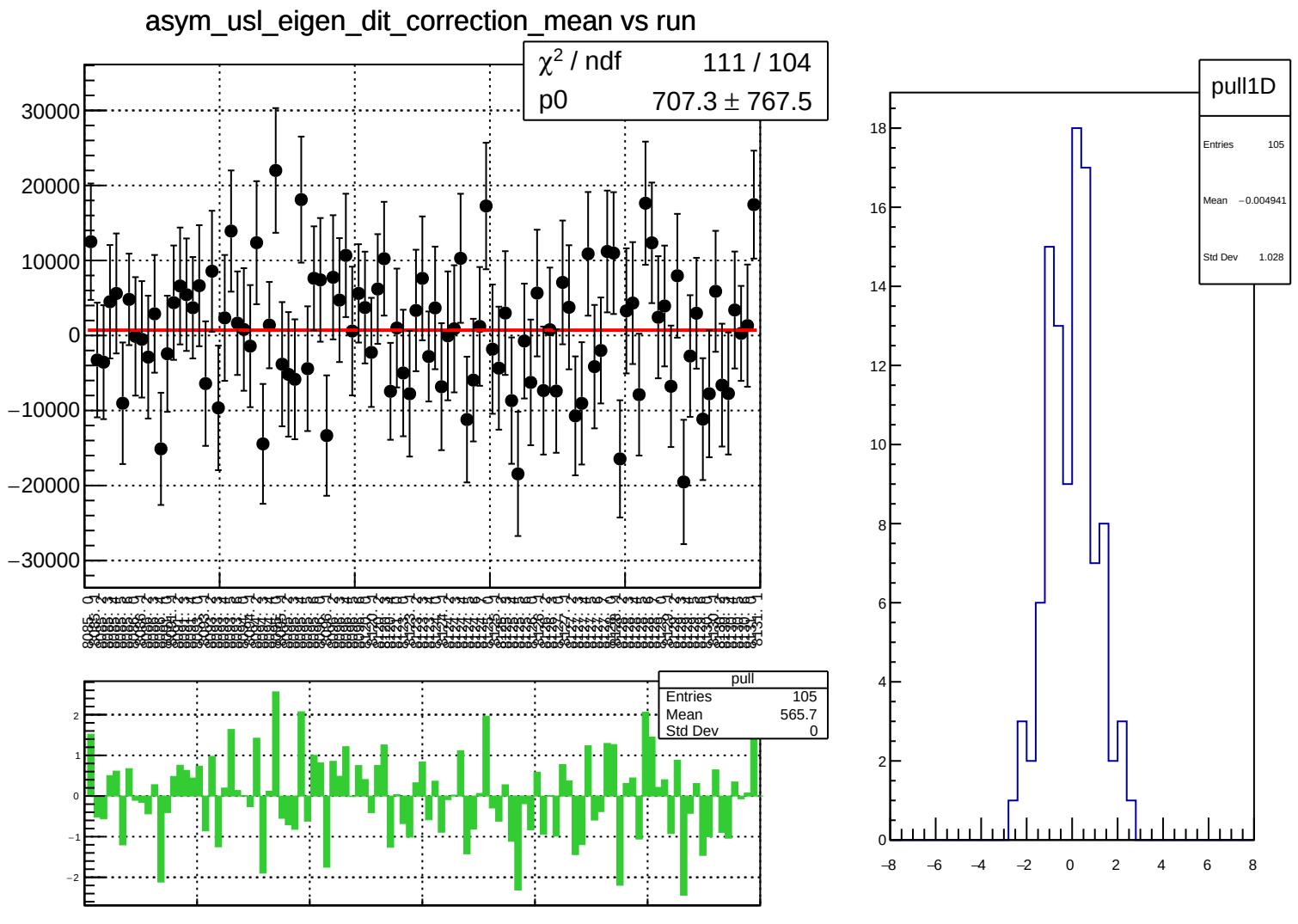

asym_usl_dit_correction_mean vs run
χ² / ndf 111 / 104
p0 707.3 ± 767.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 105
Mean 565.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.004941
Std Dev 1.028
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

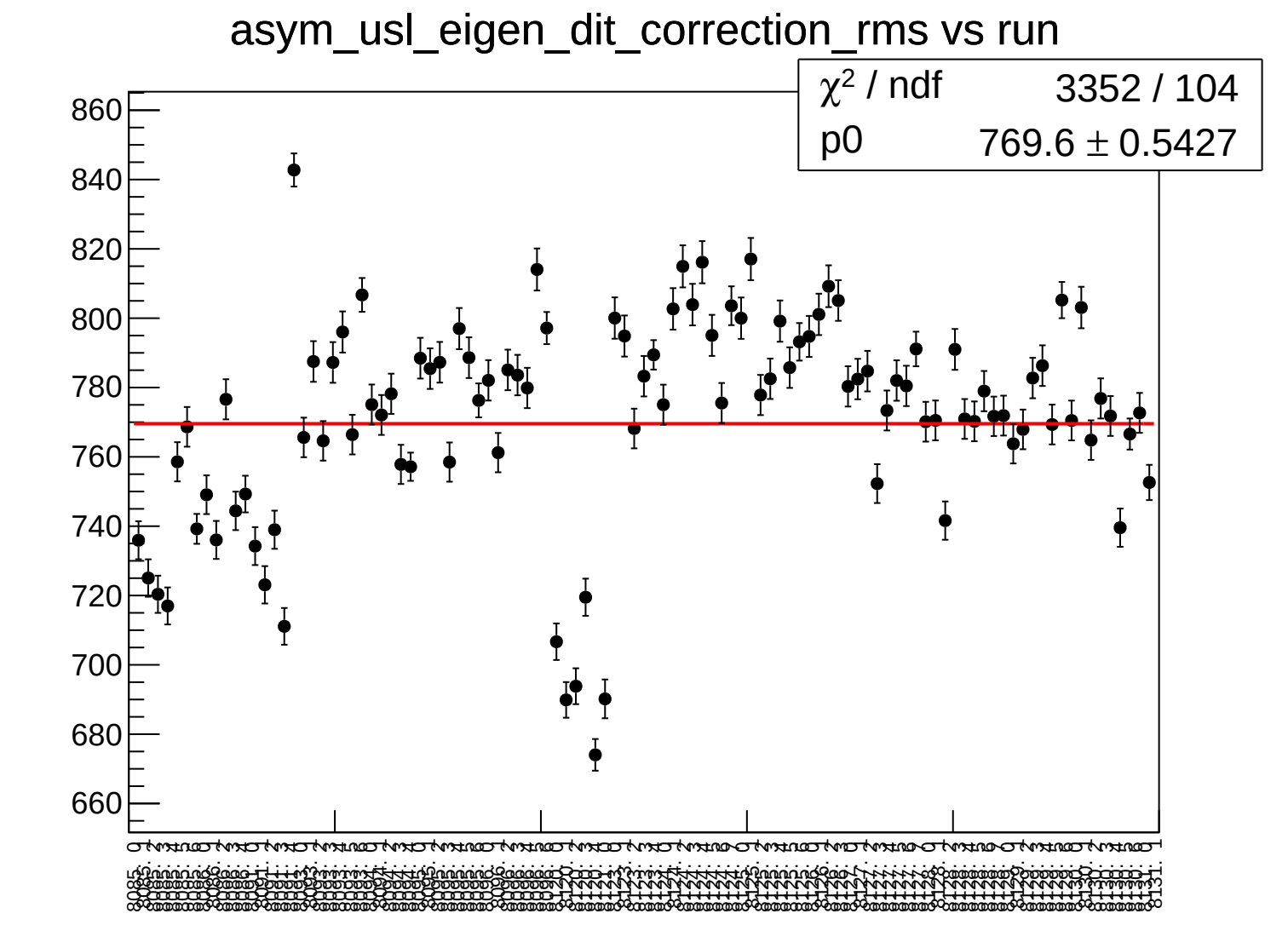

asym_usl_dit_correction_rms vs run
χ² / ndf 3352 / 104
p0 769.6 ± 0.5427
860
840
820
800
780
760
740
720
700
680
660

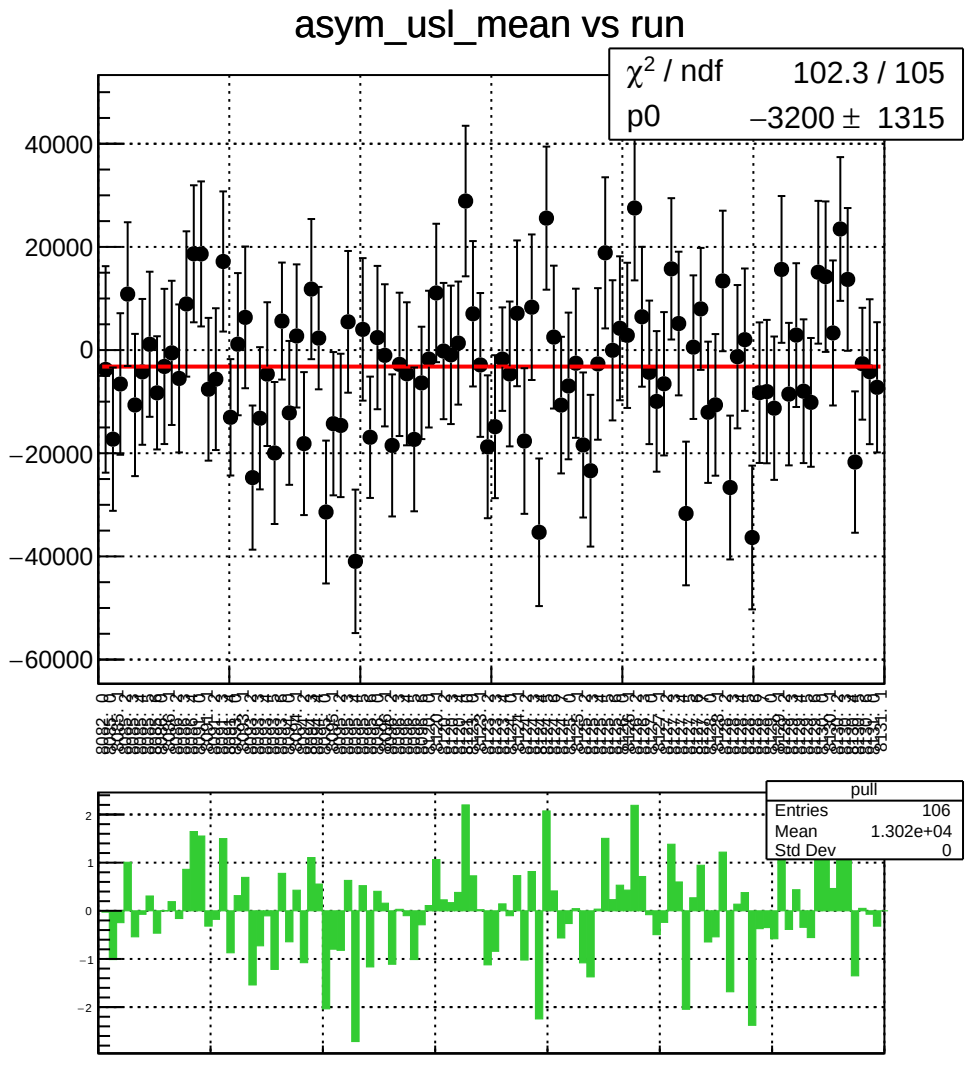

eigen_dit_asym_usl_mean vs run
χ² / ndf 91.9 / 104
p0 −2555 ± 1072
pull
Entries 105
Mean −1021
Std Dev 0

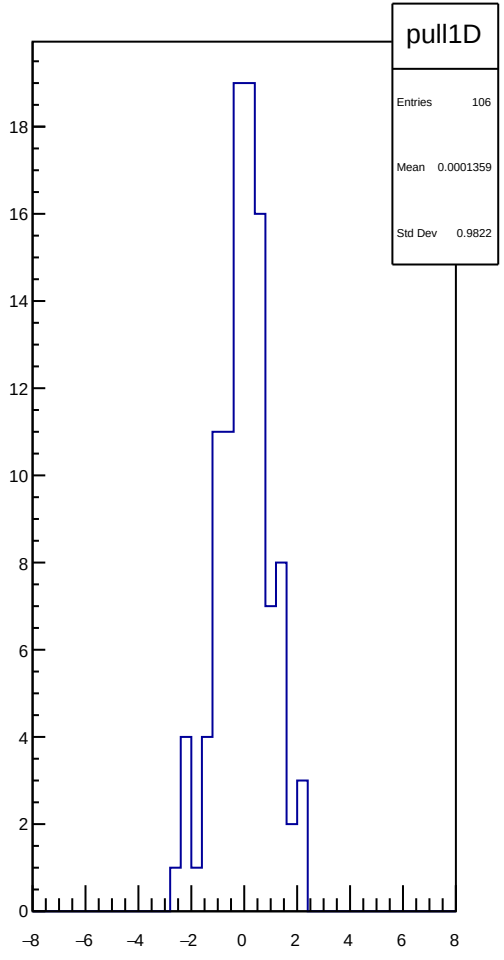

pull1D
Entries 105
Mean −0.0003702
Std Dev 0.9355

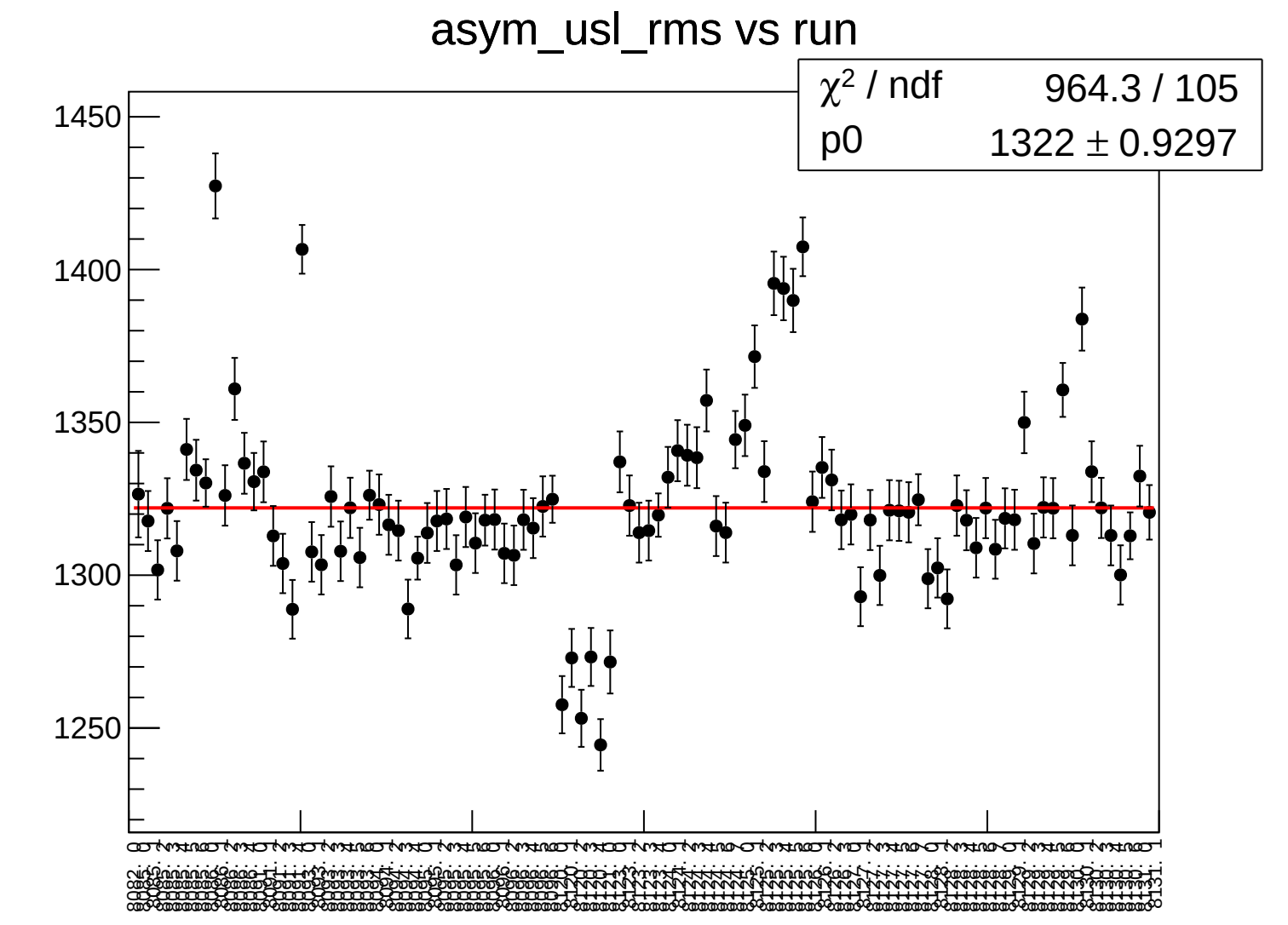

eigen_dit_asym_usl_rms vs run
$\chi^2$ / ndf 242.9 / 104
p0 1075 ± 0.7578
1140
1120
1100
1080
1060
1040

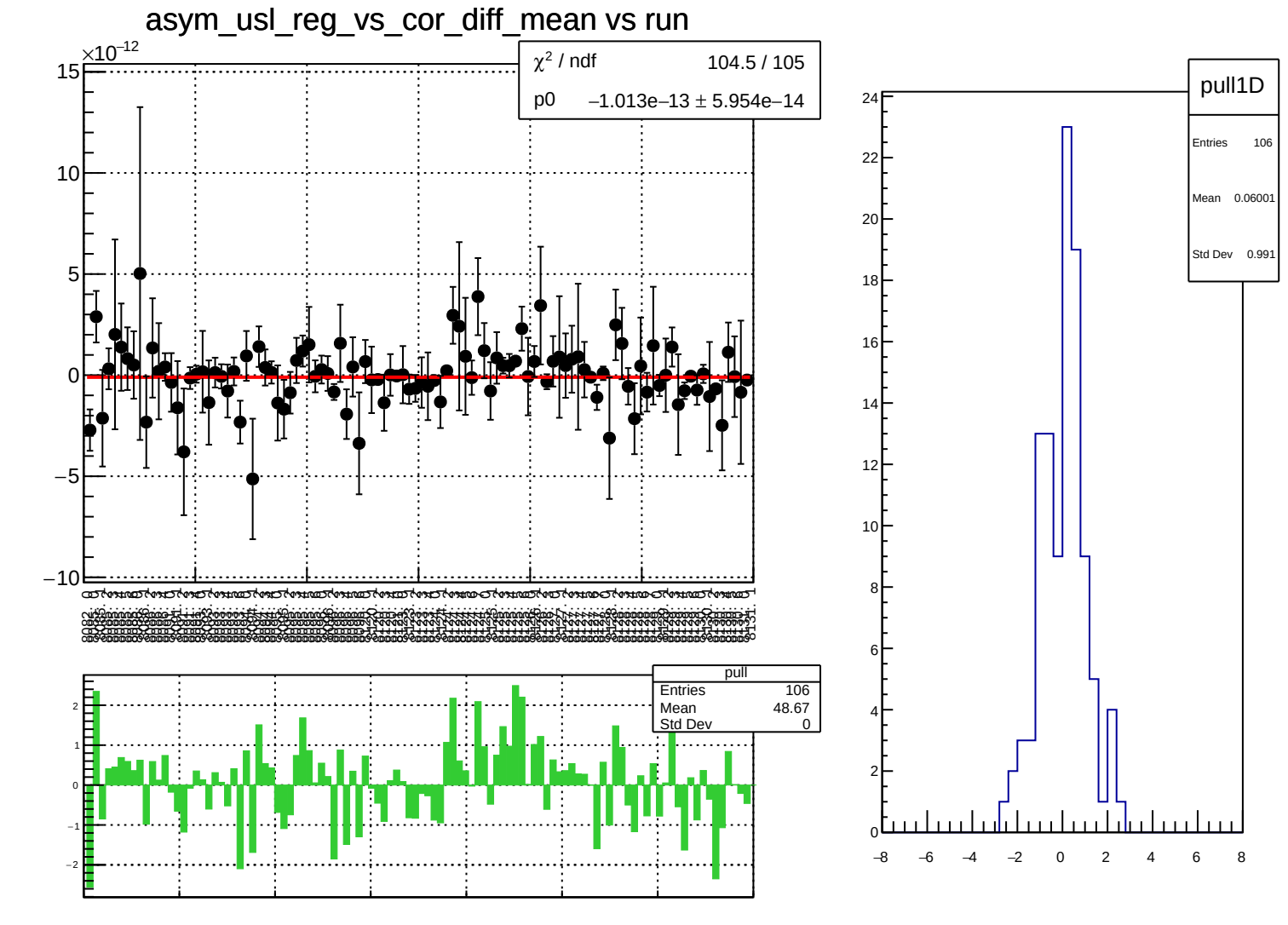

asym_usl_eigen_dit_correction_mean vs run
χ² / ndf 111 / 104
p0 707.3 ± 767.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 105
Mean 565.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.004941
Std Dev 1.028
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

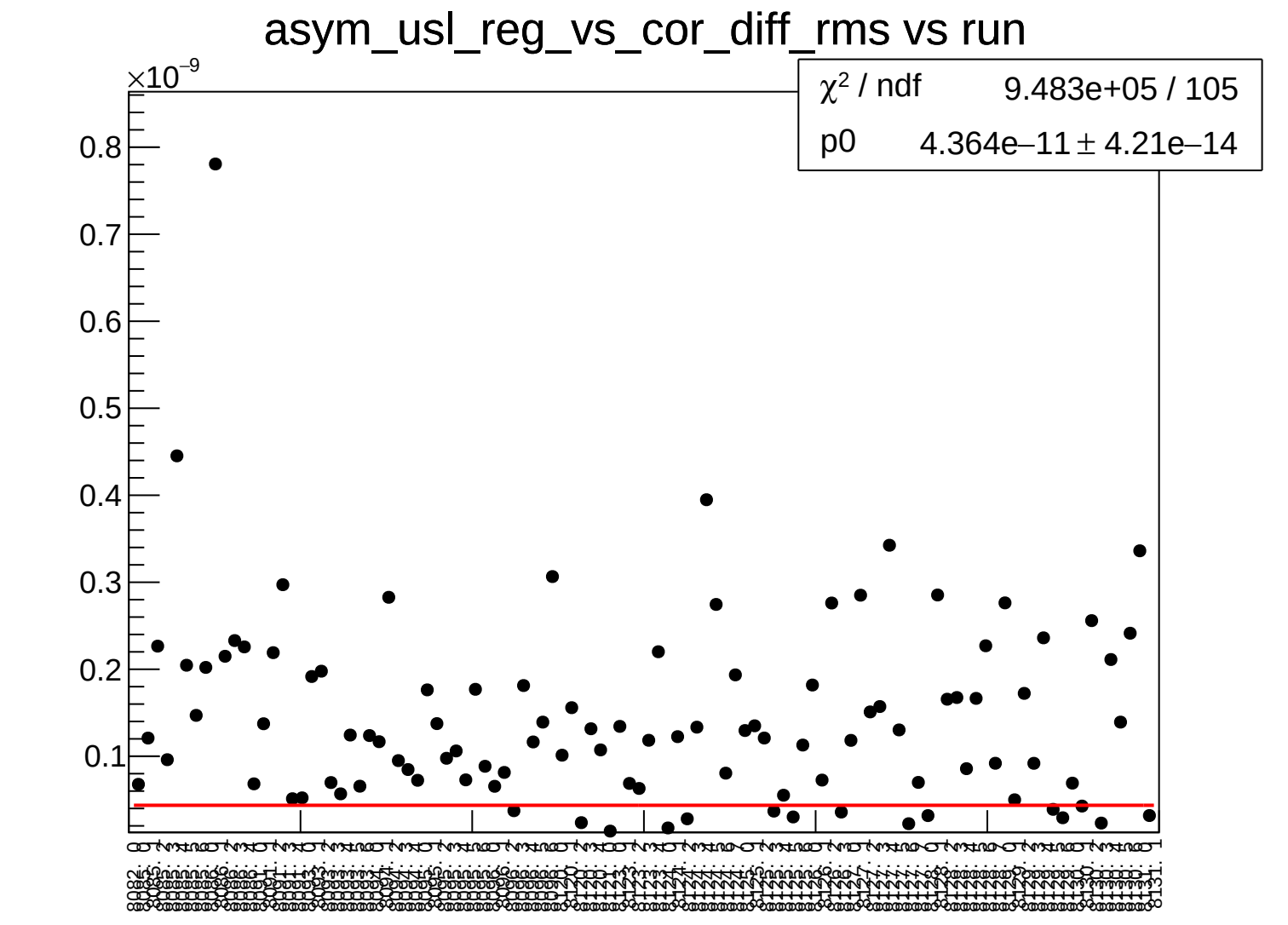

asym_usl_eigen_dit_correction_rms vs run
χ² / ndf 3352 / 104
p0 769.6 ± 0.5427
860
840
820
800
780
760
740
720
700
680
660

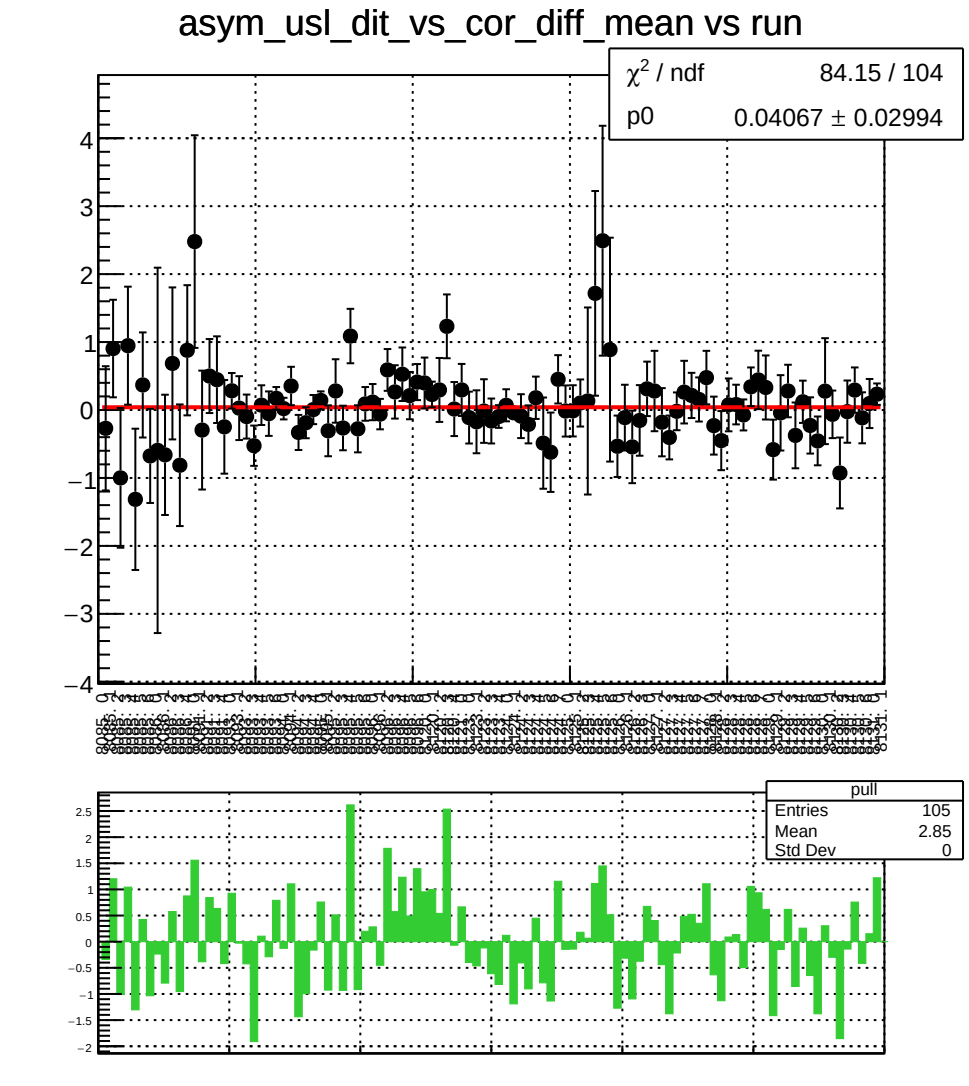

asym_usl_mean vs run
χ² / ndf 102.3 / 105
p0 −3200 ± 1315
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean 1.302e+04
Std Dev 0
2
1
0
−1
−2

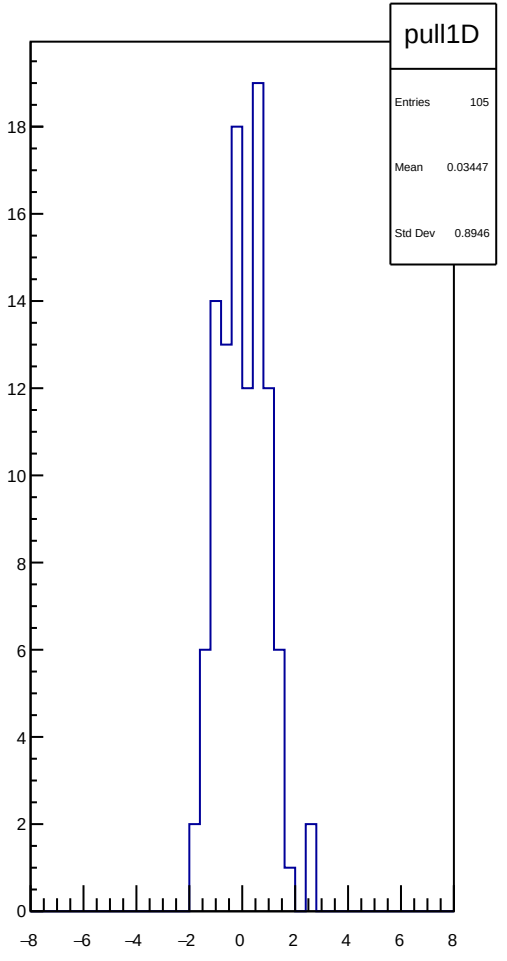

pull1D
Entries 106
Mean 0.0001359
Std Dev 0.9822
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

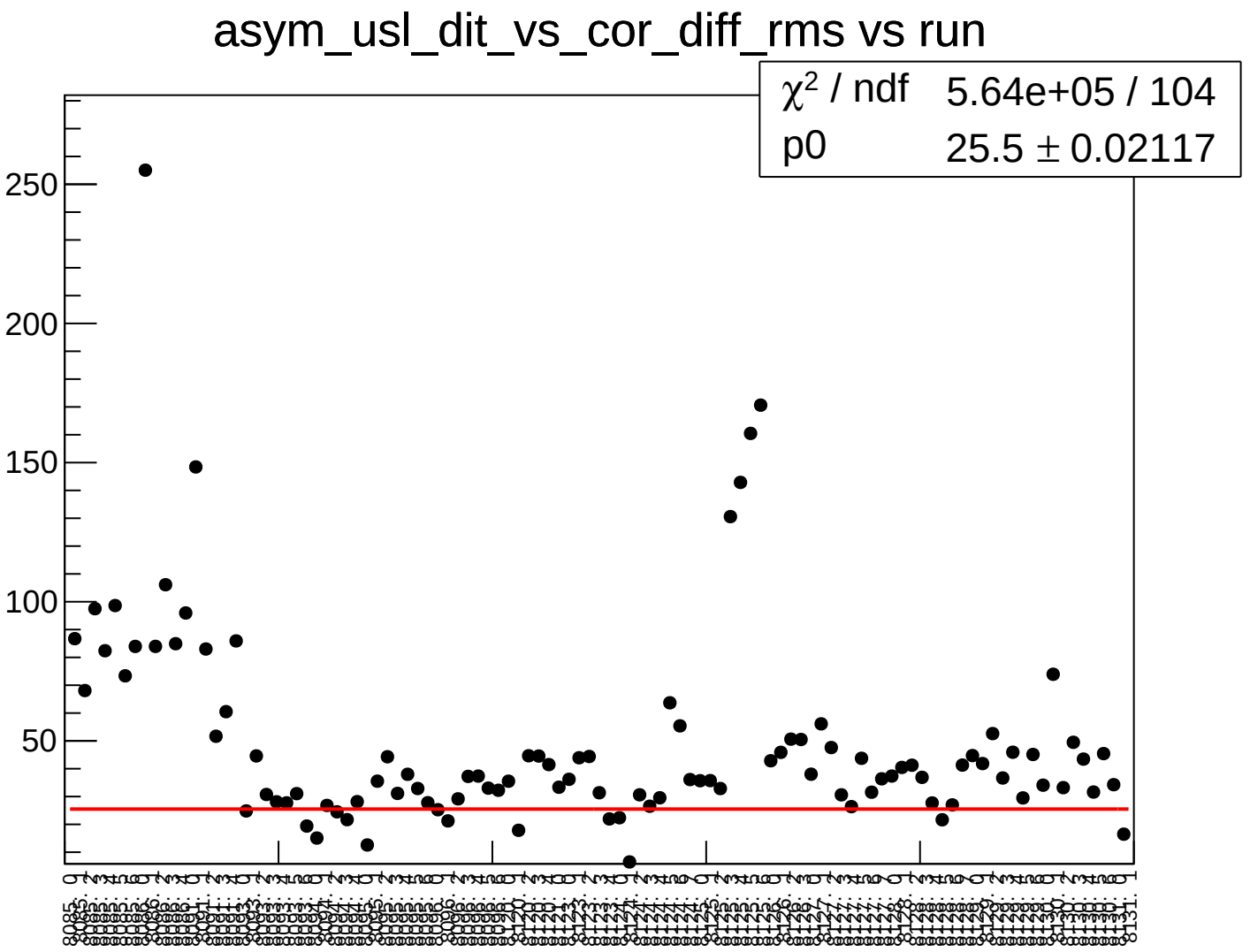

asym_usl_rms vs run
χ² / ndf 964.3 / 105
p0 1322 ± 0.9297
1450
1400
1350
1300
1250

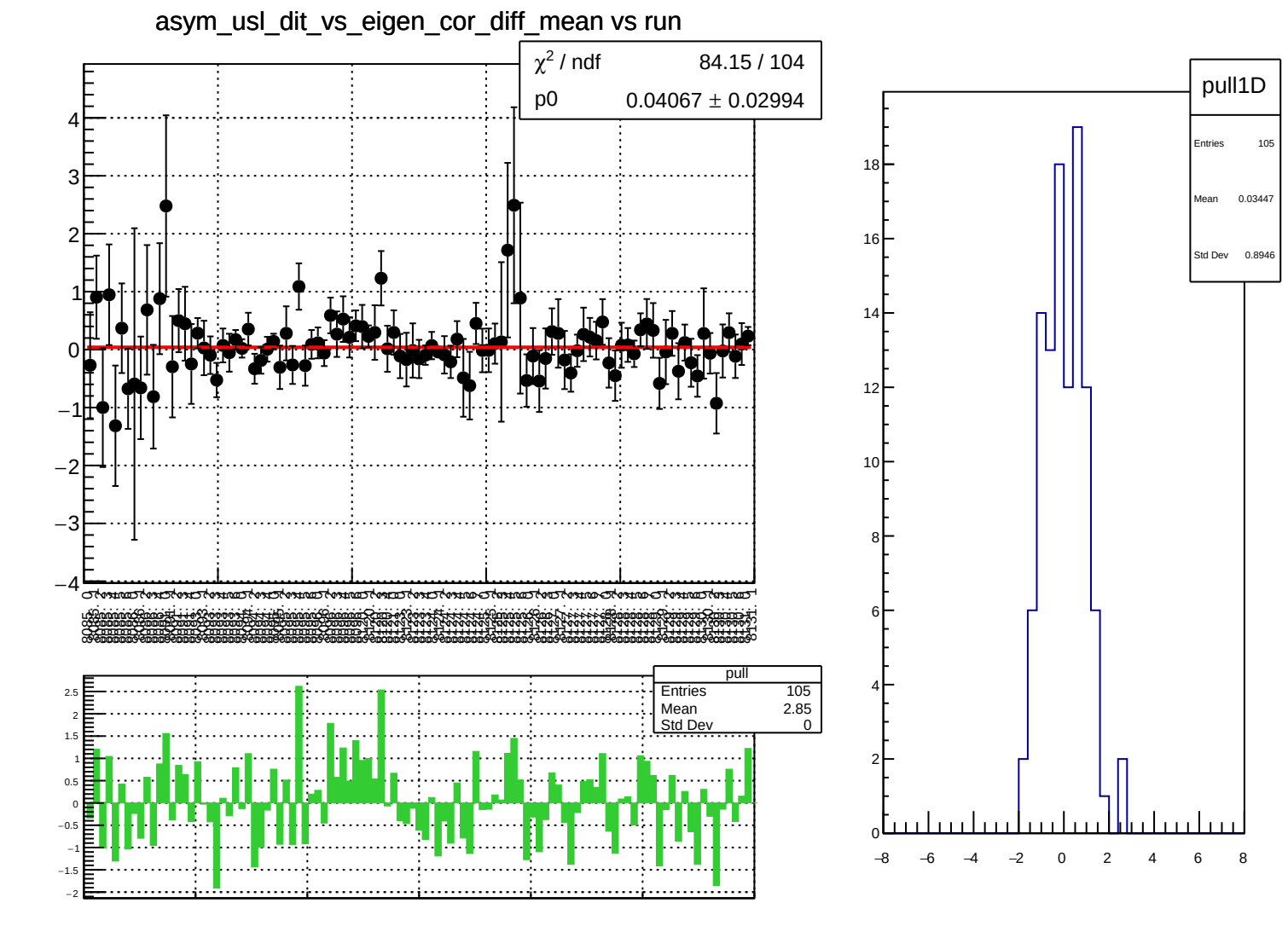

asym_usl_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 104.5 / 105
p0 −1.013e−13 ± 5.954e−14
15
10
5
0
−5
−10
pull
Entries 106
Mean 48.67
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 106
Mean 0.06001
Std Dev 0.991
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

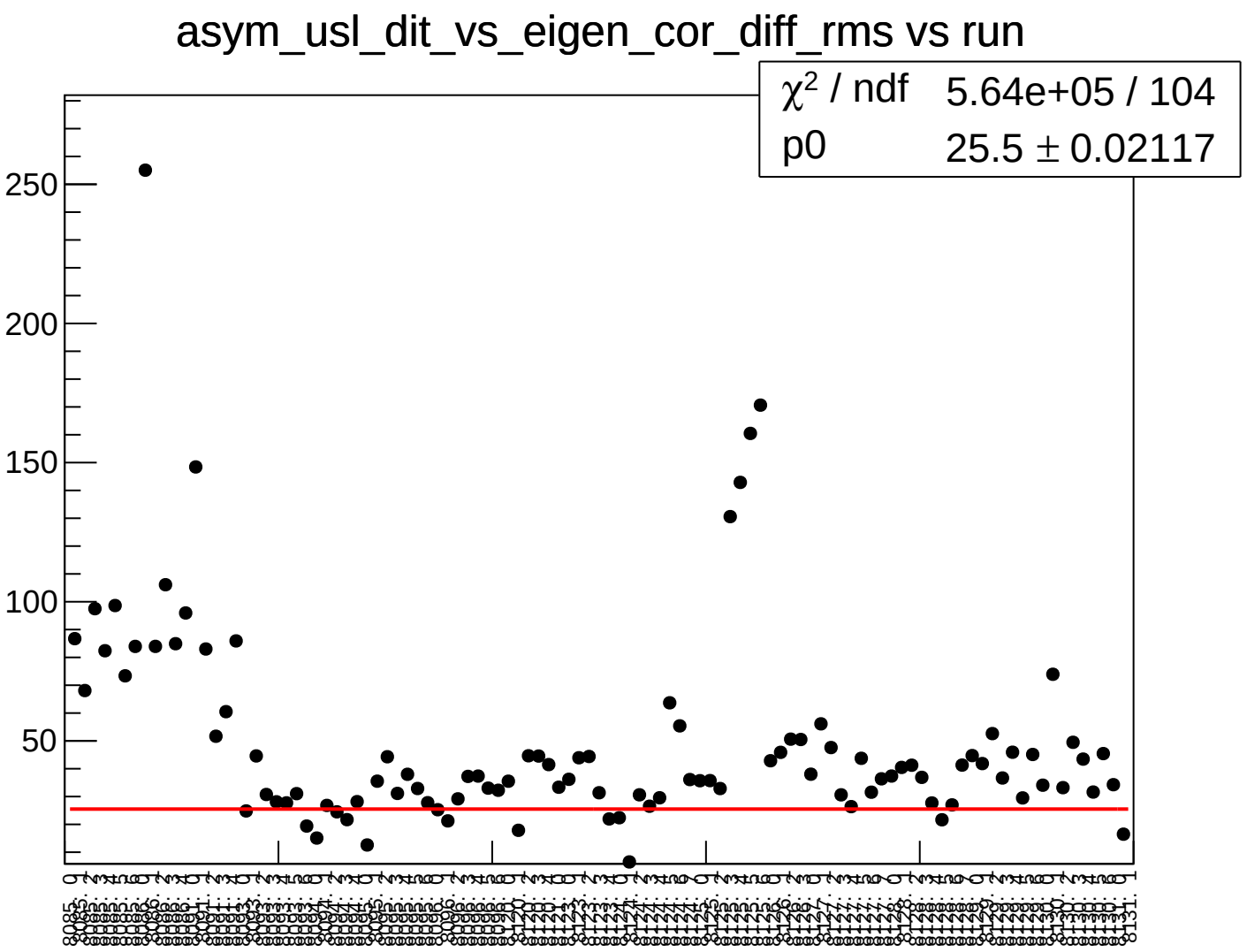

asym_usl_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.483e+05 / 105
p0 4.364e−11 ± 4.21e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

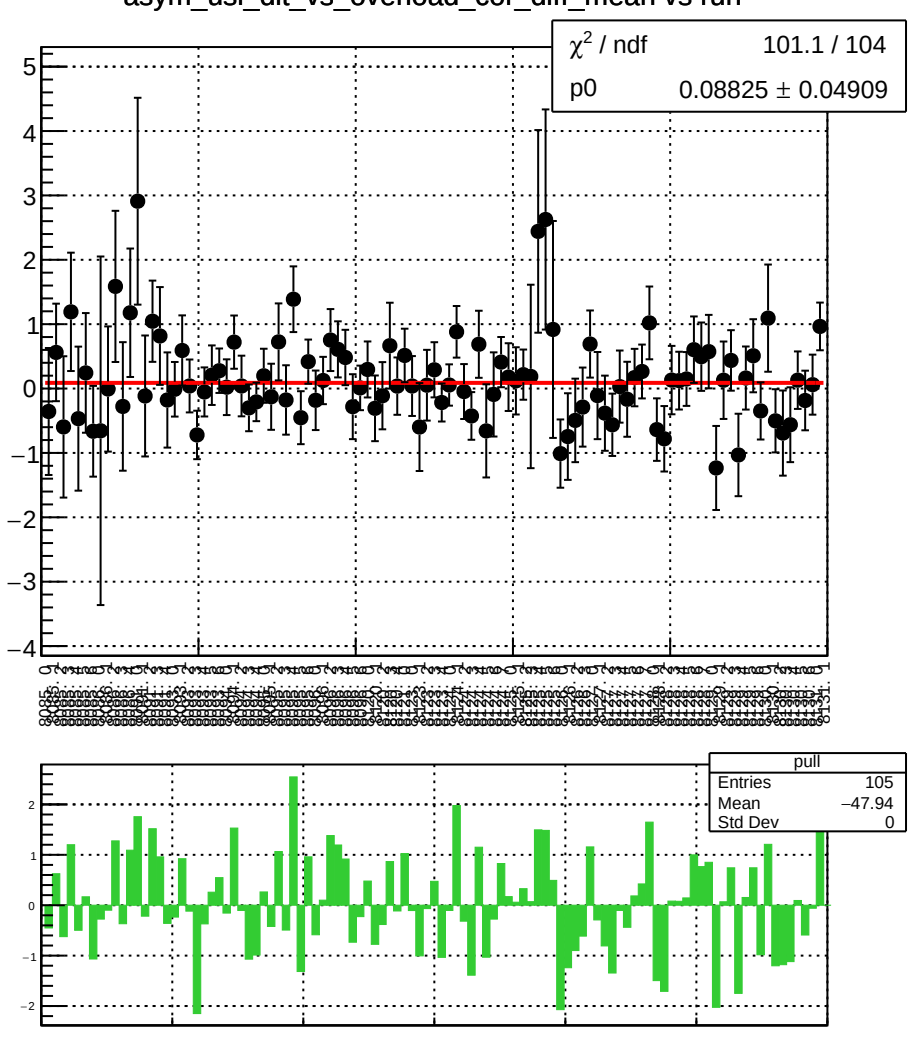

asym_usl_dit_vs_cor_diff_mean vs run
χ² / ndf 84.15 / 104
p0 0.04067 ± 0.02994
pull
Entries 105
Mean 2.85
Std Dev 0

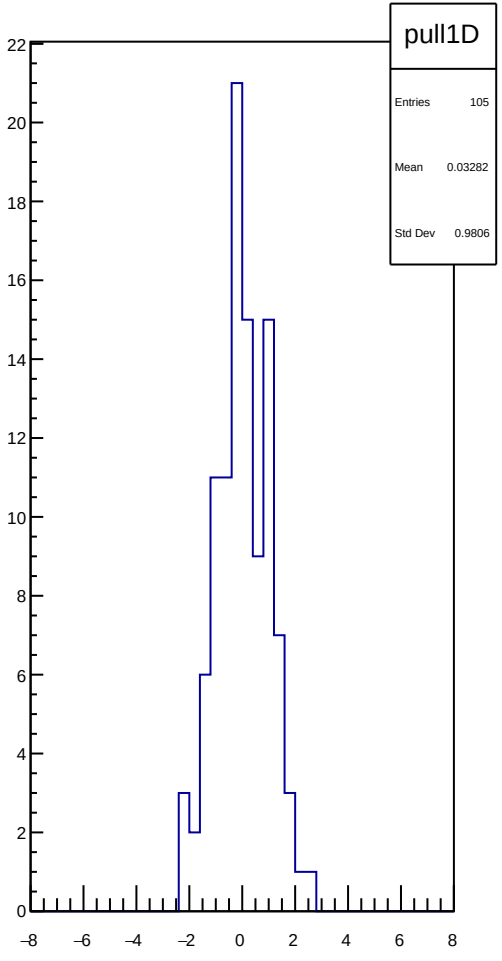

pull1D
Entries 105
Mean 0.03447
Std Dev 0.8946

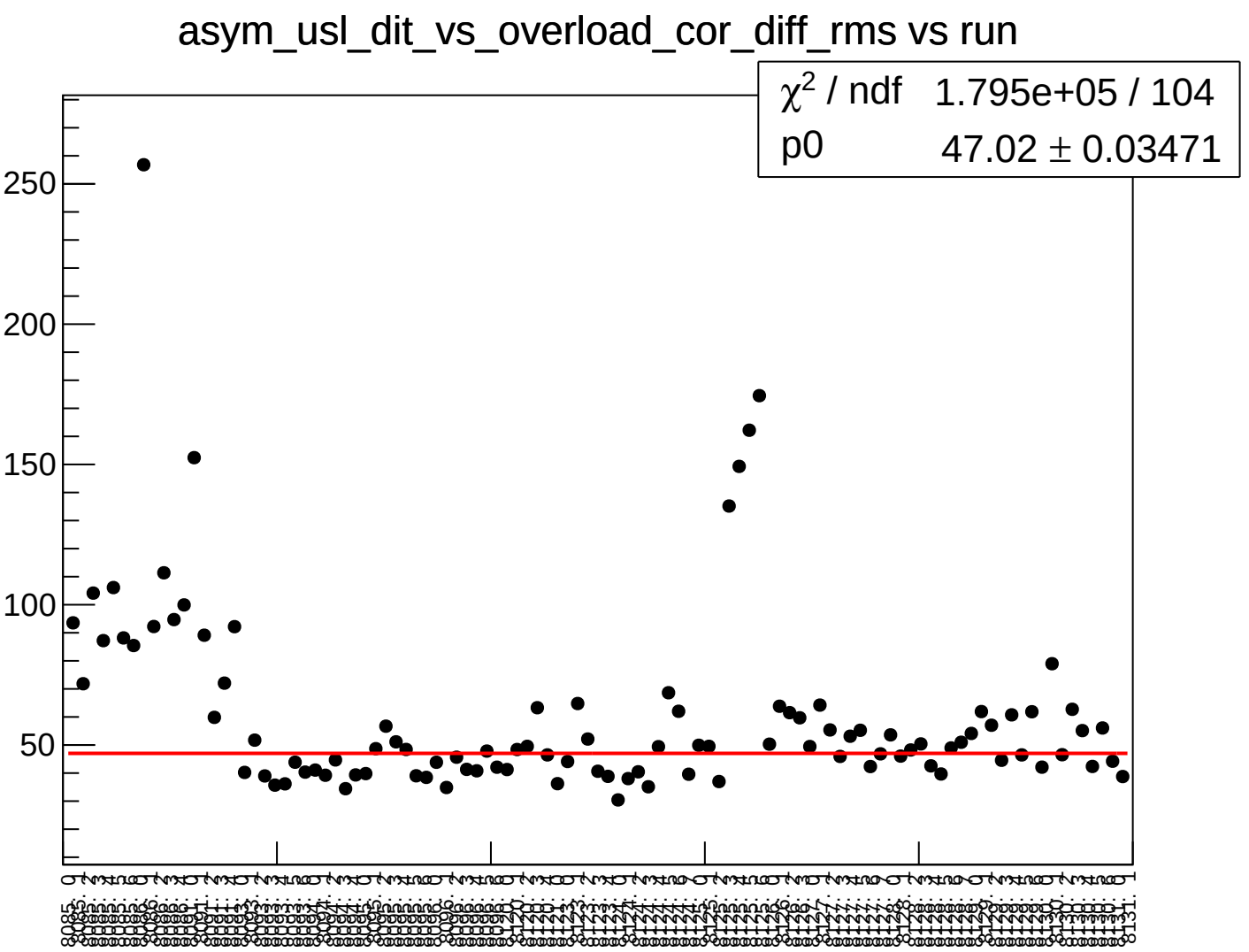

asym_usl_dit_vs_cor_diff_rms vs run
χ² / ndf 5.64e+05 / 104
p0 25.5 ± 0.02117
250
200
150
100
50

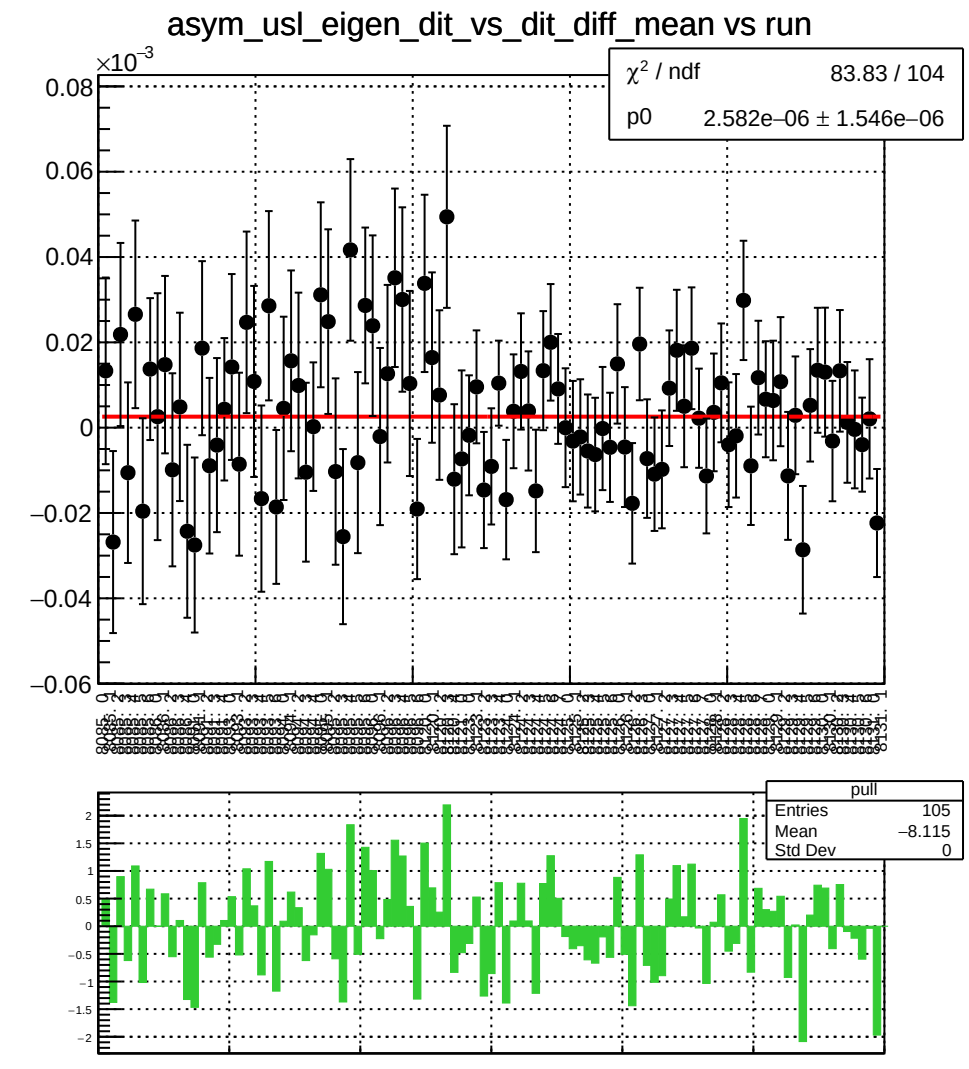

asym_usl_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.15 / 104
p0 0.04067 ± 0.02994
pull
Entries 105
Mean 2.85
Std Dev 0
pull1D
Entries 105
Mean 0.03447
Std Dev 0.8946

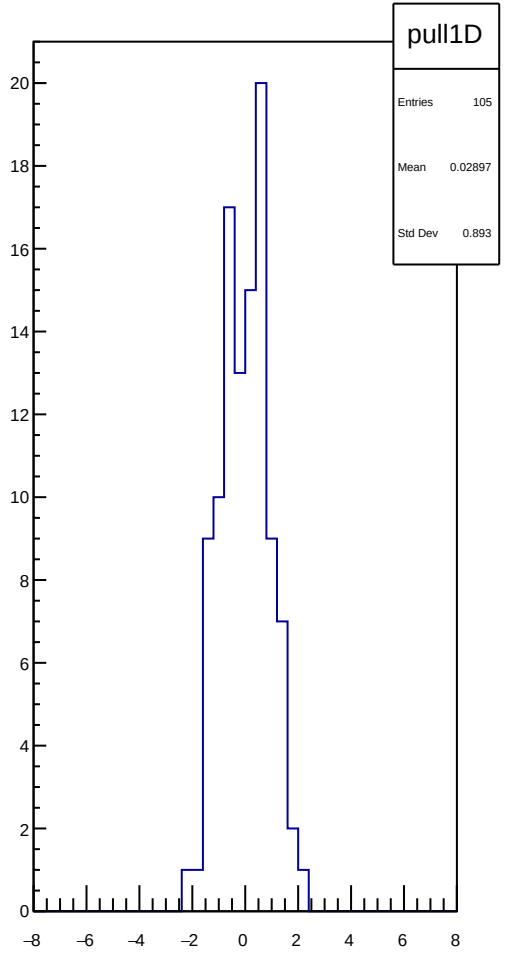

asym_usl_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.64e+05 / 104
p0 25.5 ± 0.02117
250
200
150
100
50

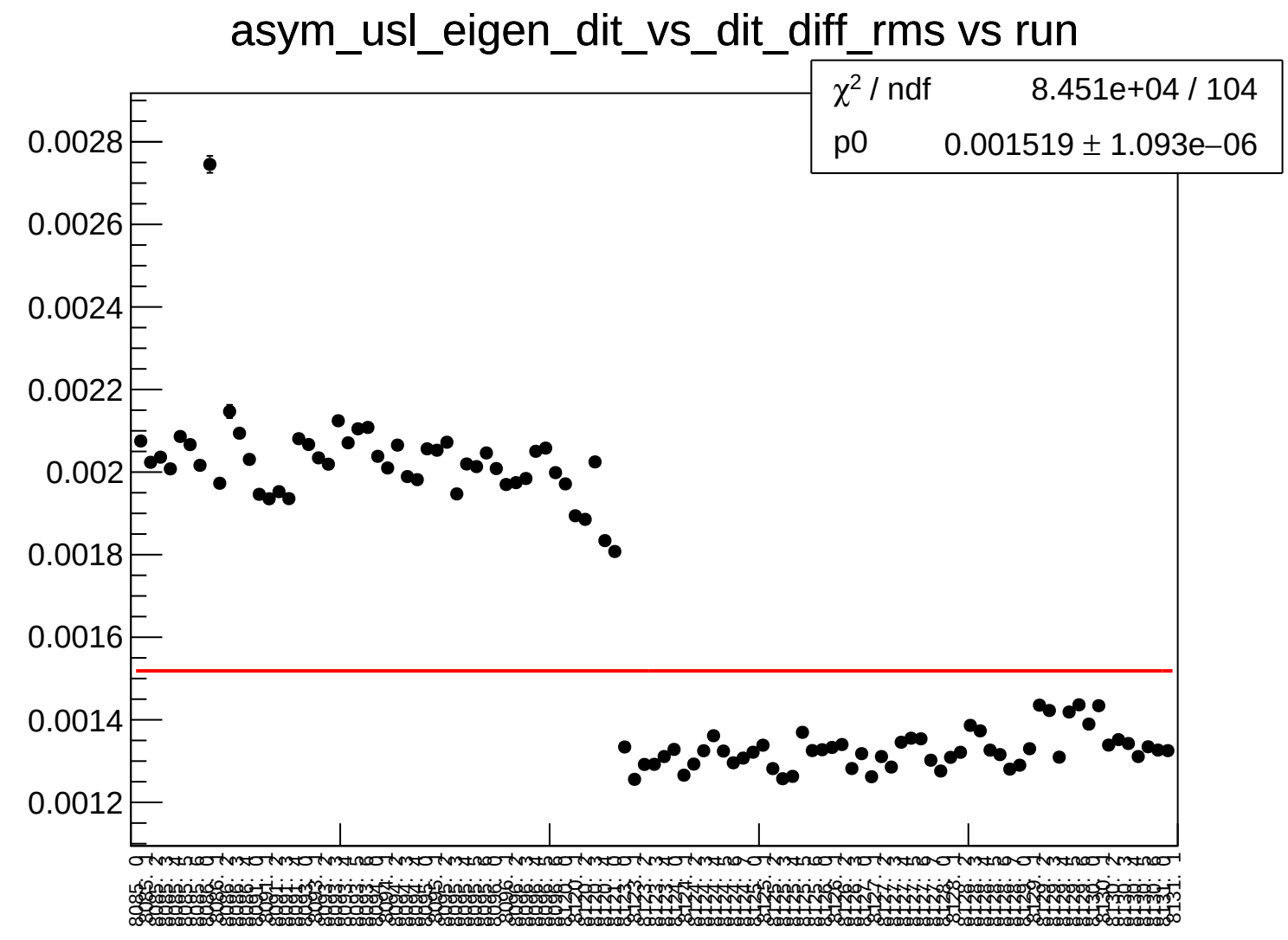

asym_usl_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 101.1 / 104
p0 0.08825 ± 0.04909
pull
Entries 105
Mean −47.94
Std Dev 0

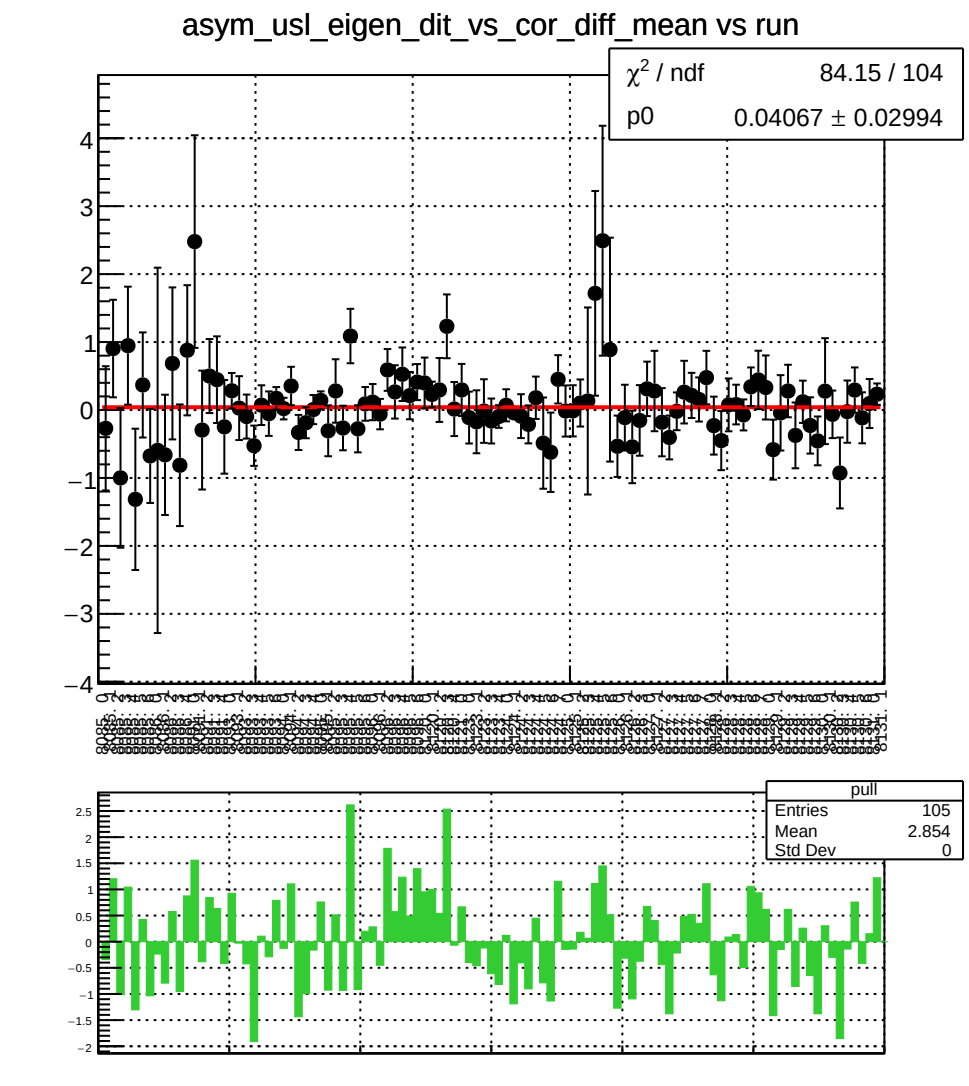

pull1D
Entries 105
Mean 0.03282
Std Dev 0.9806

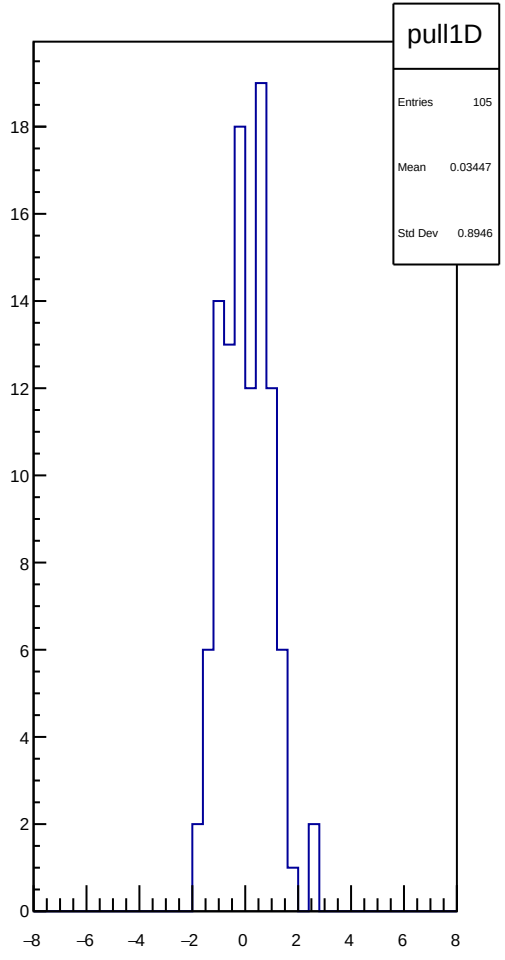

asym_usl_dit_vs_overload_cor_diff_rms vs run
$\chi^2$ / ndf 1.795e+05 / 104
p0 47.02 ± 0.03471
250
200
150
100
50

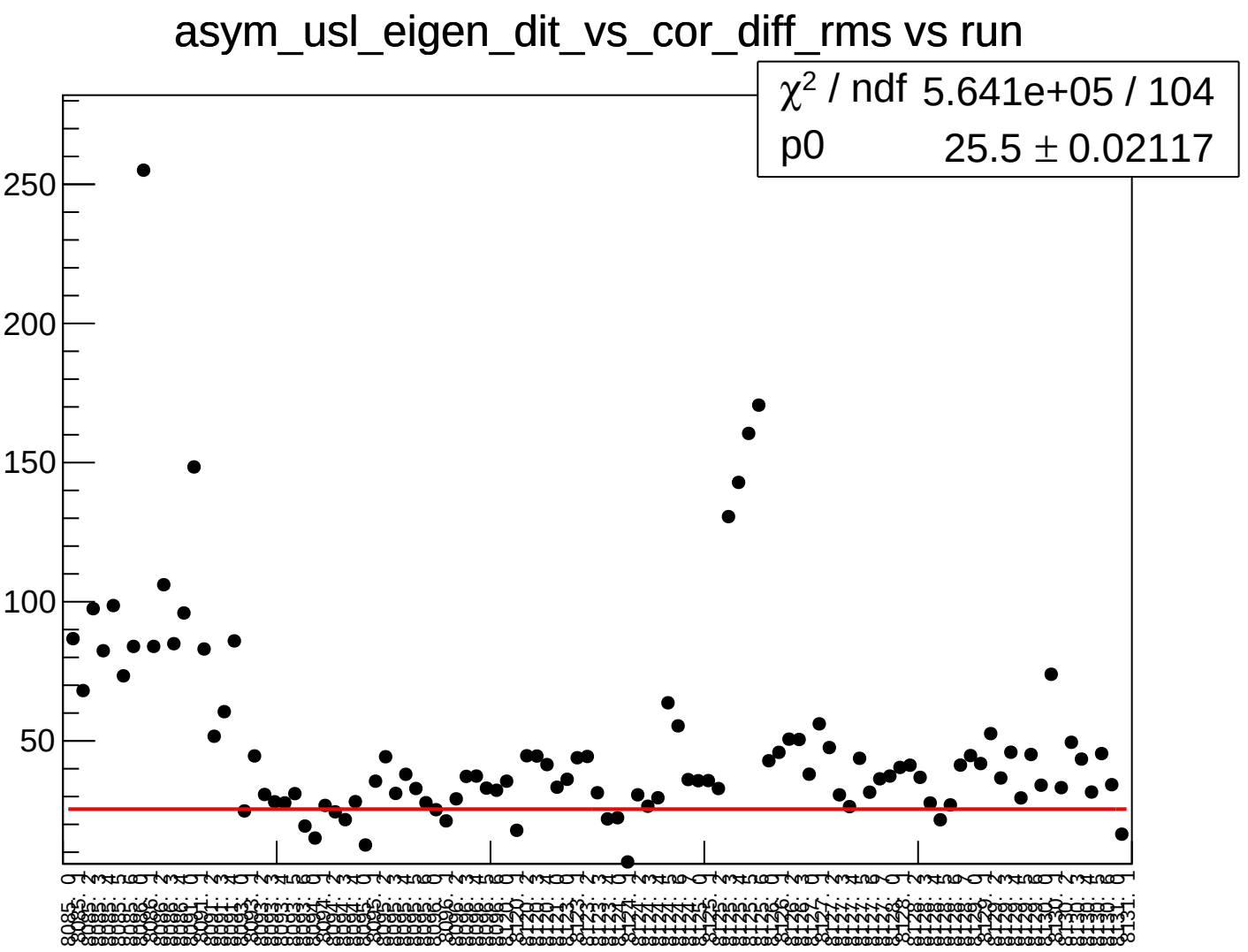

asym_usl_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 83.83 / 104
p0 2.582e−06 ± 1.546e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 105
Mean −8.115
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

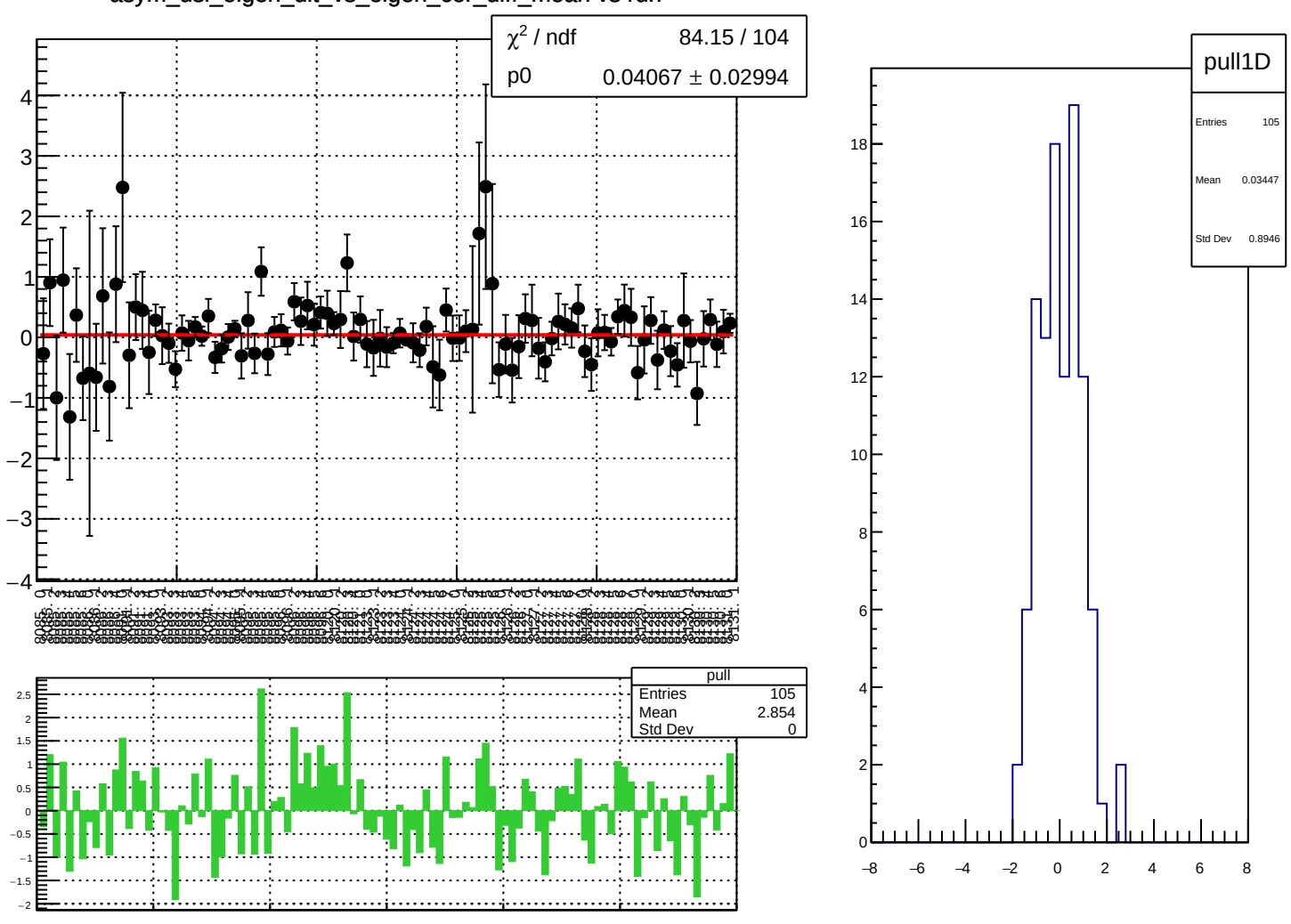

pull1D
Entries 105
Mean 0.02897
Std Dev 0.893
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

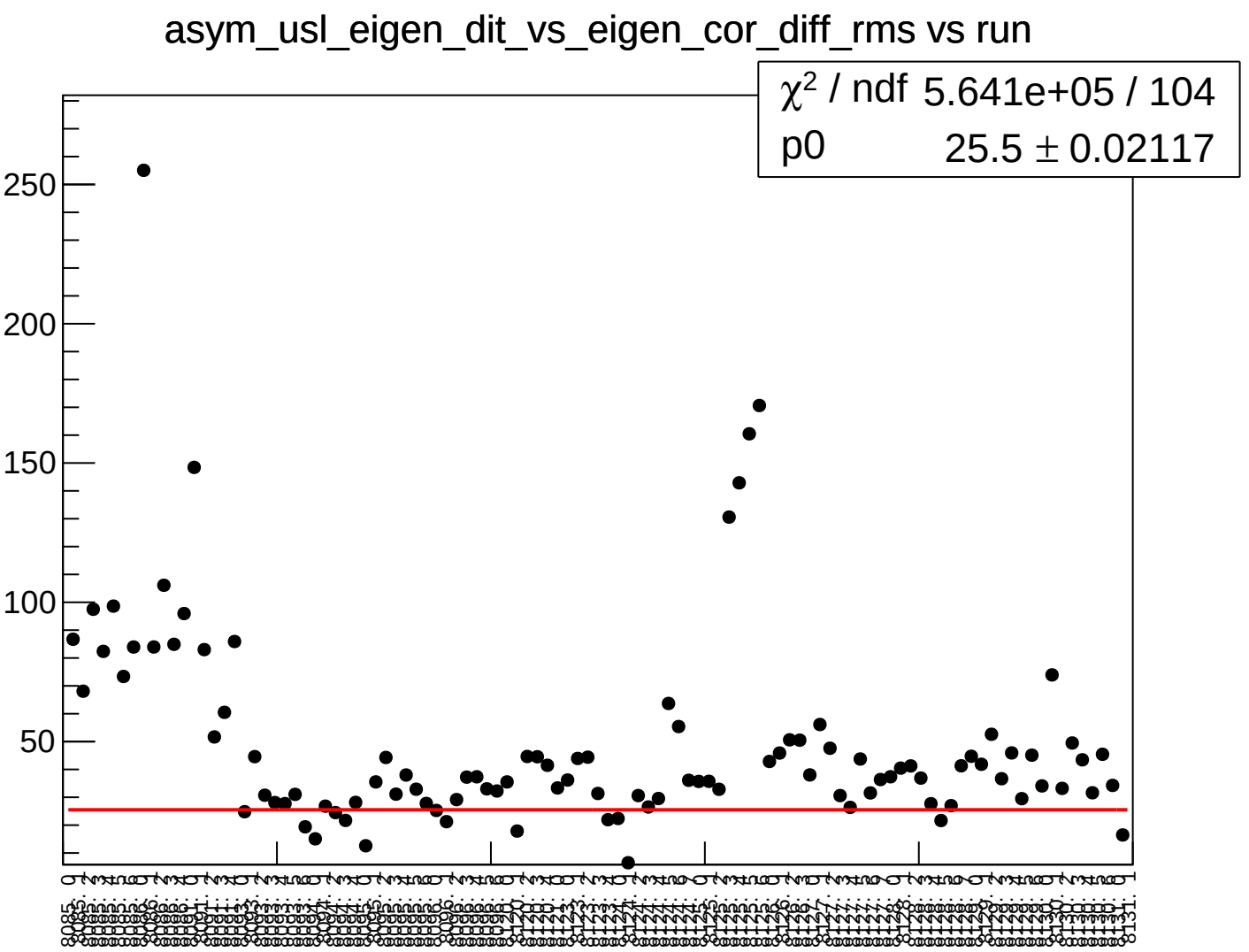

asym_usl_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.451e+04 / 104
p0 0.001519 ± 1.093e−06
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012

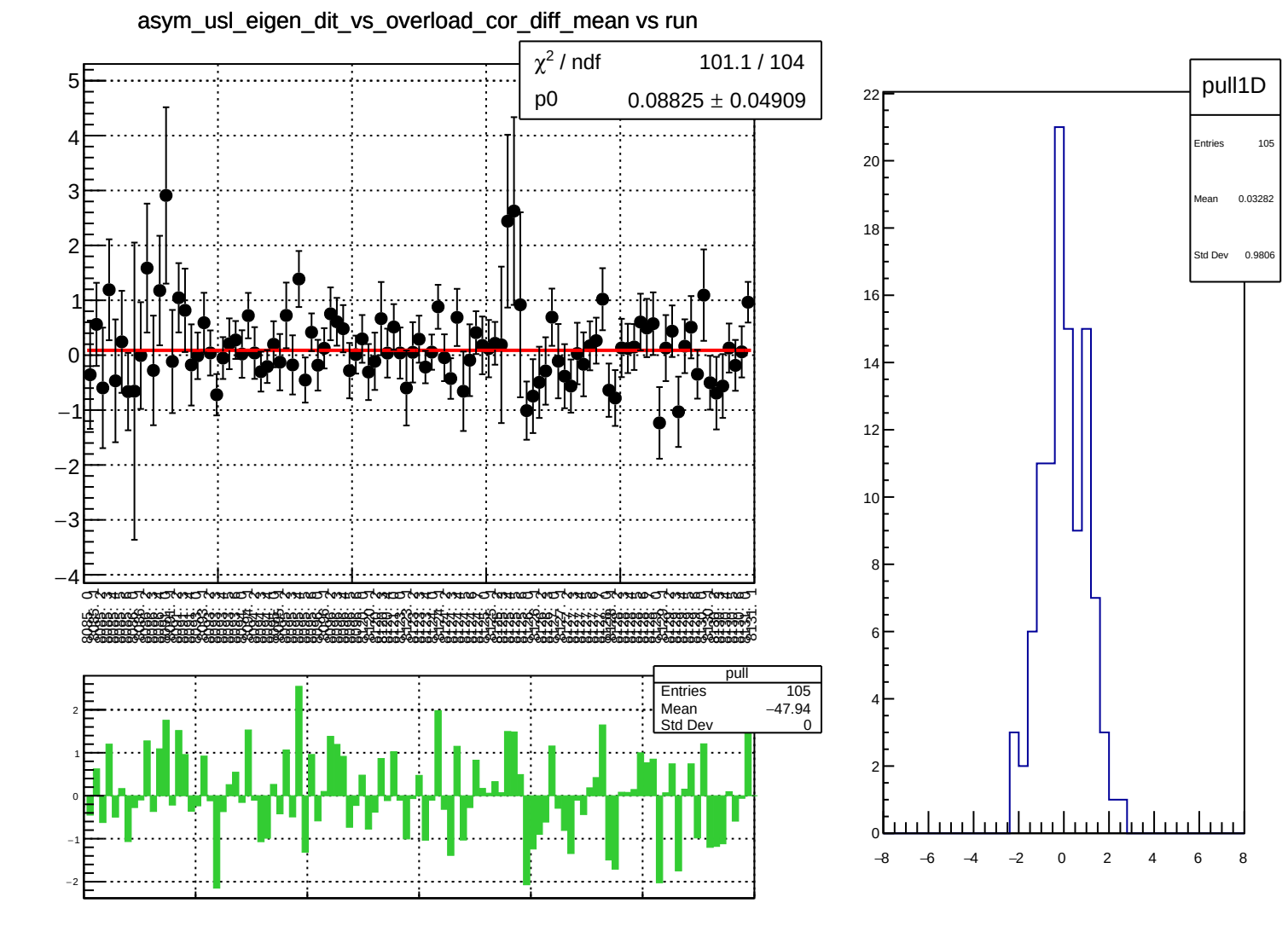

asym_usl_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 84.15 / 104
p0 0.04067 ± 0.02994
pull
Entries 105
Mean 2.854
Std Dev 0

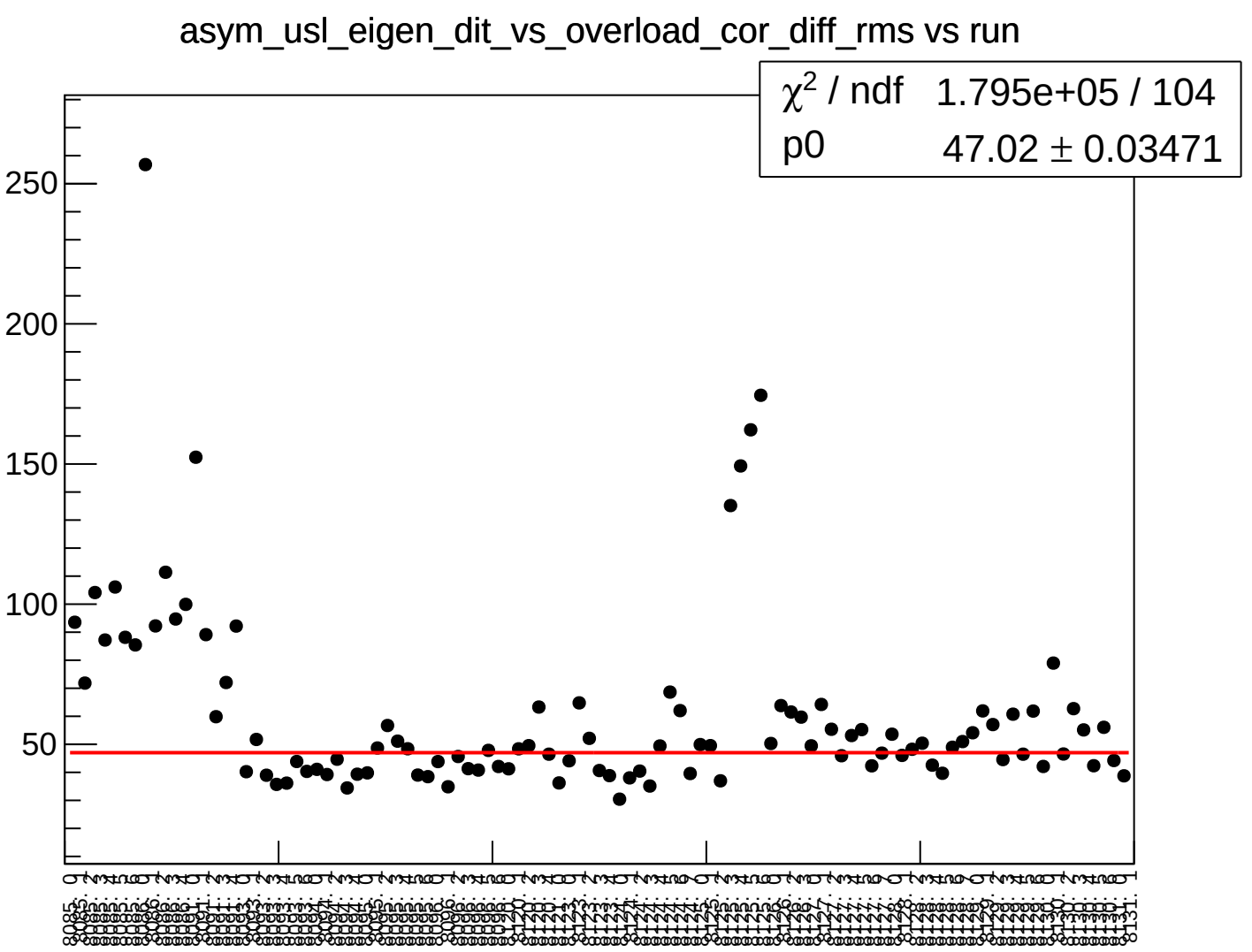

pull1D
Entries 105
Mean 0.03447
Std Dev 0.8946

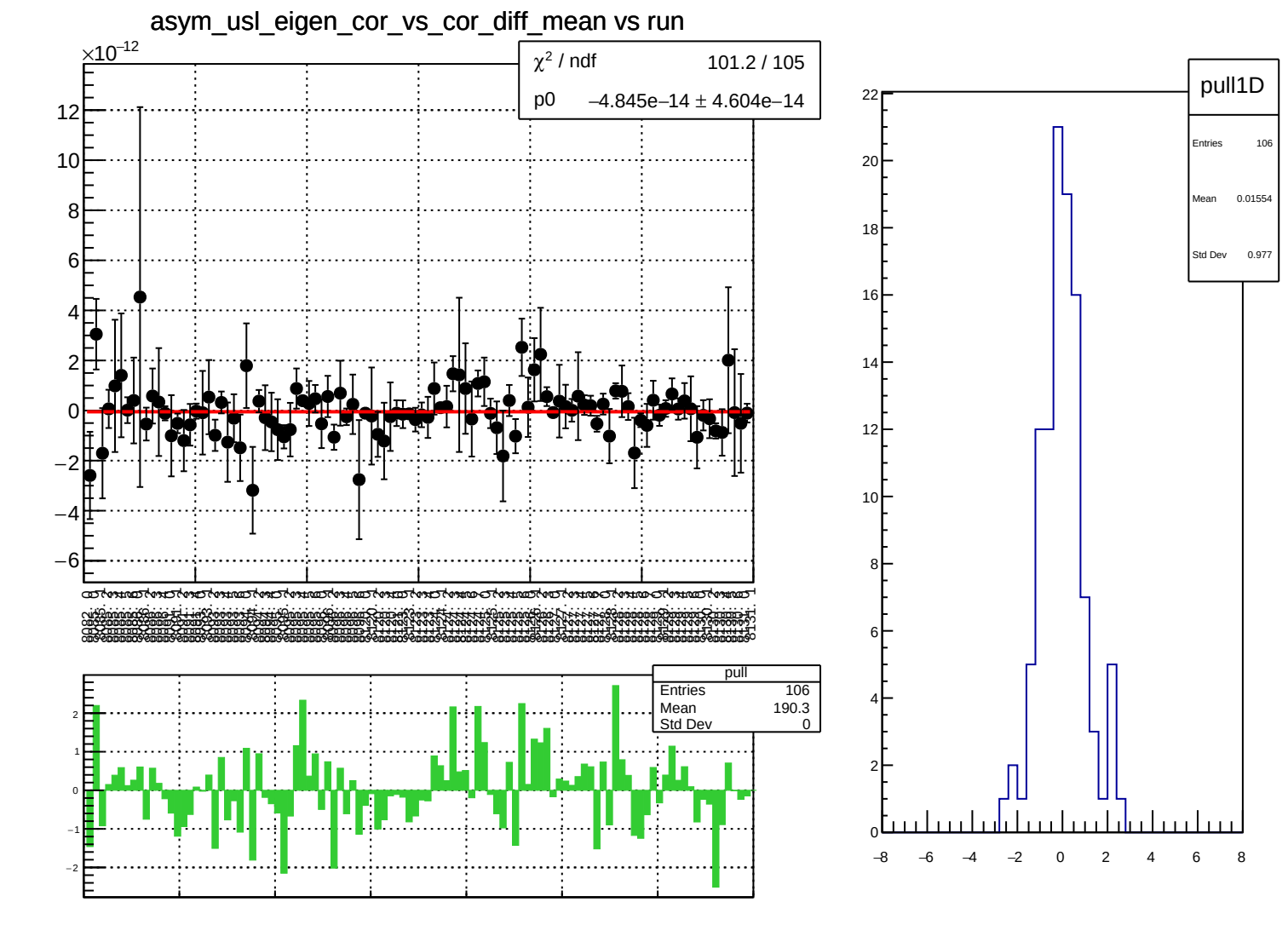

asym_usl_eigen_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 5.641e+05 / 104
p0 25.5 ± 0.02117
250
200
150
100
50

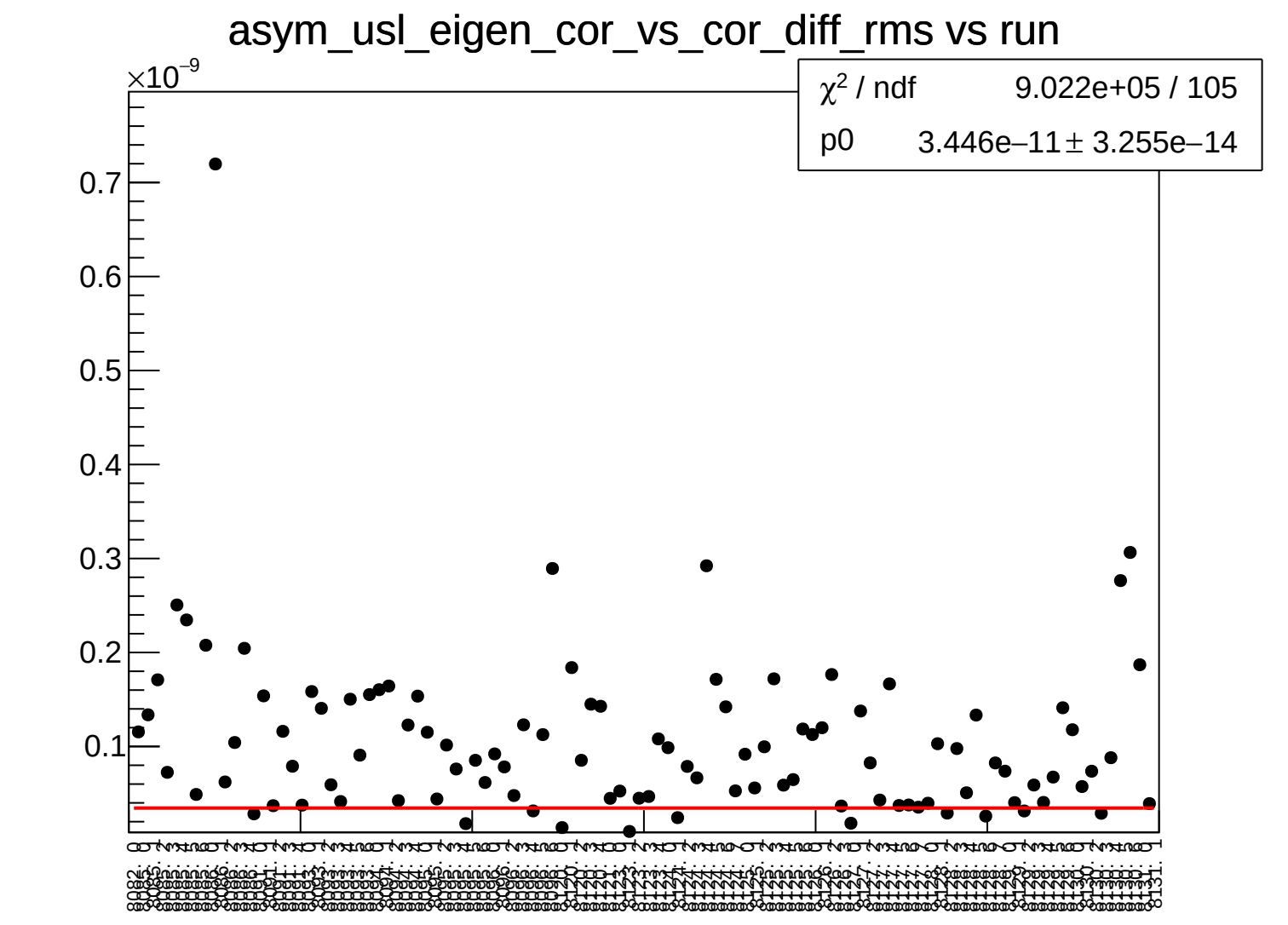

asym_usl_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 84.15 / 104
p0 0.04067 ± 0.02994
pull
Entries 105
Mean 2.854
Std Dev 0
pull1D
Entries 105
Mean 0.03447
Std Dev 0.8946

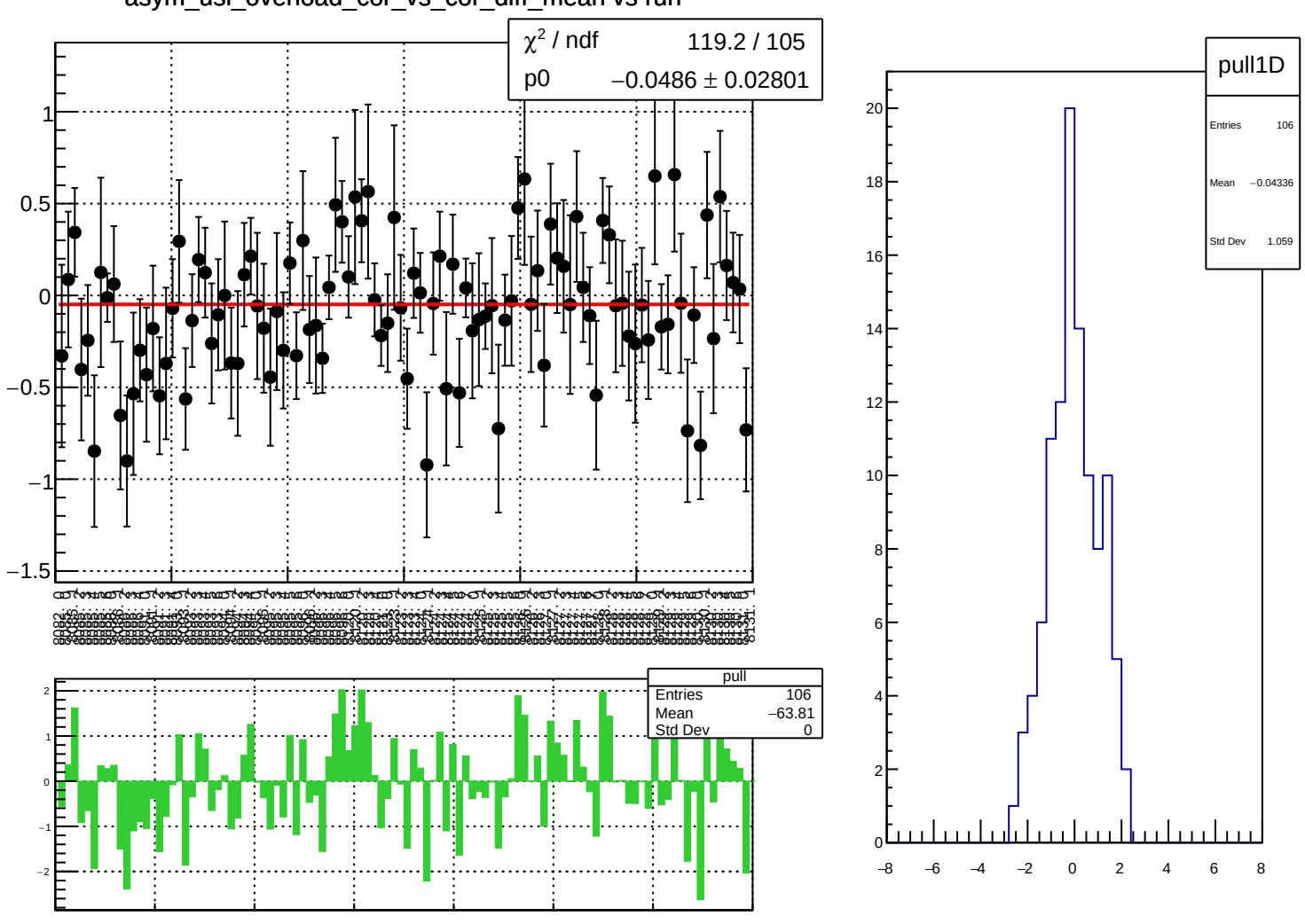

asym_usl_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.641e+05 / 104
p0 25.5 ± 0.02117
250
200
150
100
50

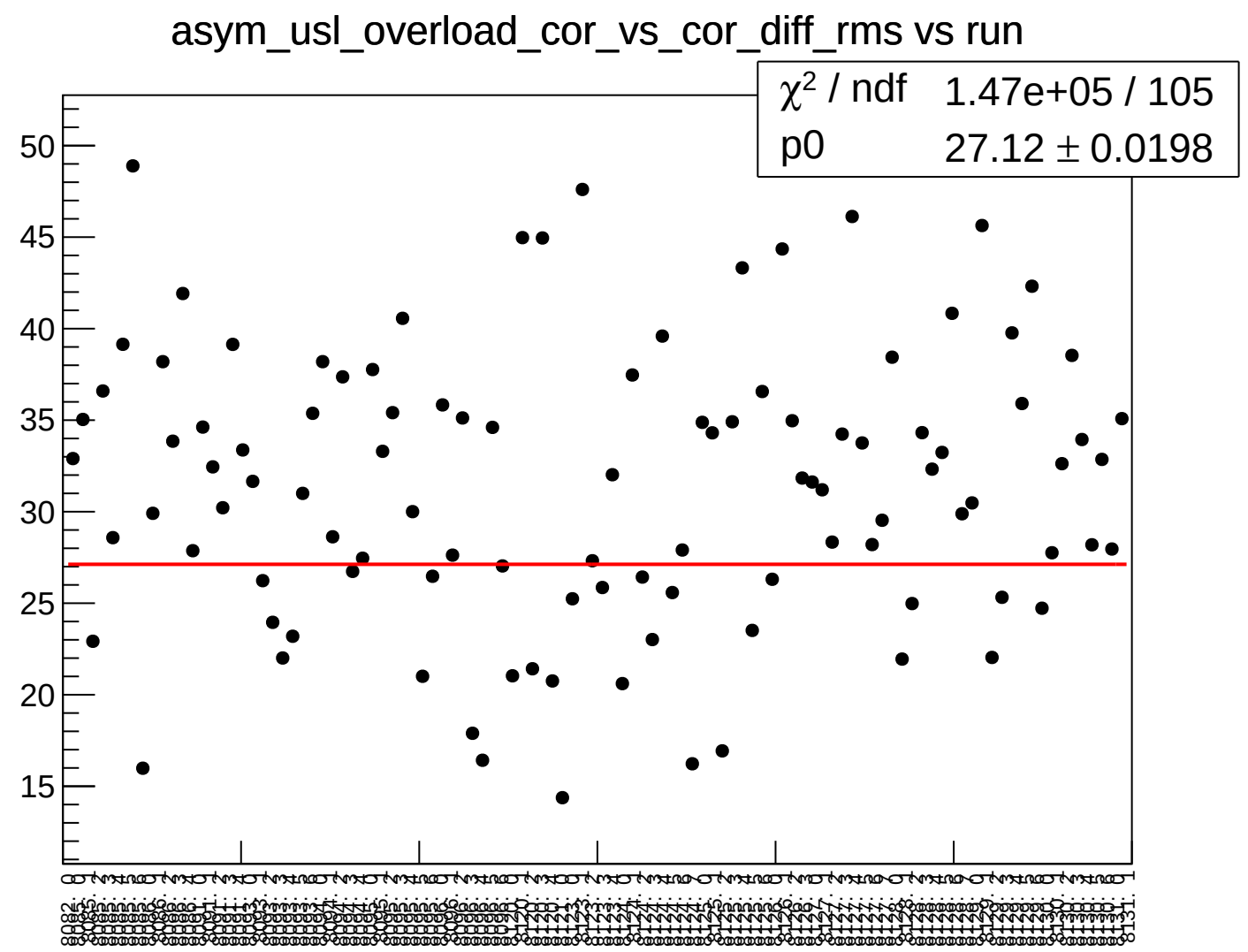

asym_usl_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 101.1 / 104
p0 0.08825 ± 0.04909
pull
Entries 105
Mean −47.94
Std Dev 0
pull1D
Entries 105
Mean 0.03282
Std Dev 0.9806

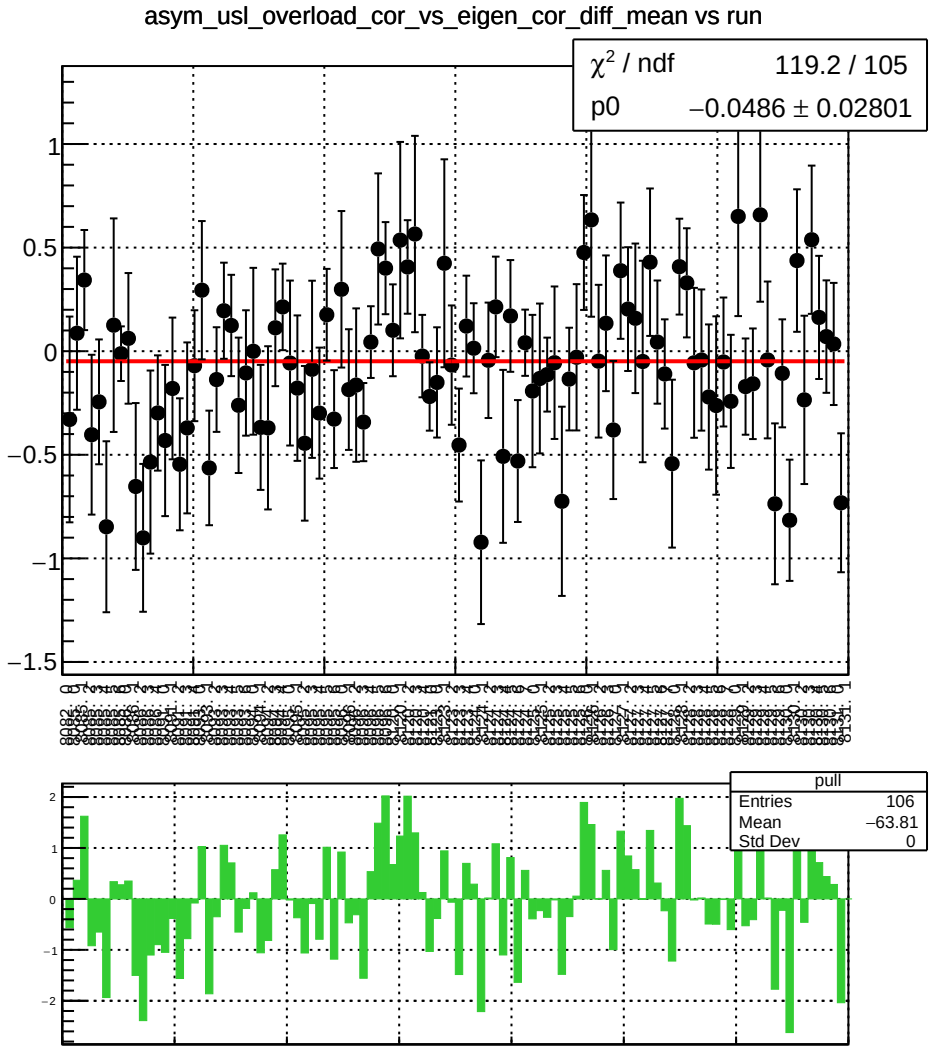

asym_usl_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.795e+05 / 104
p0 47.02 ± 0.03471
250
200
150
100
50

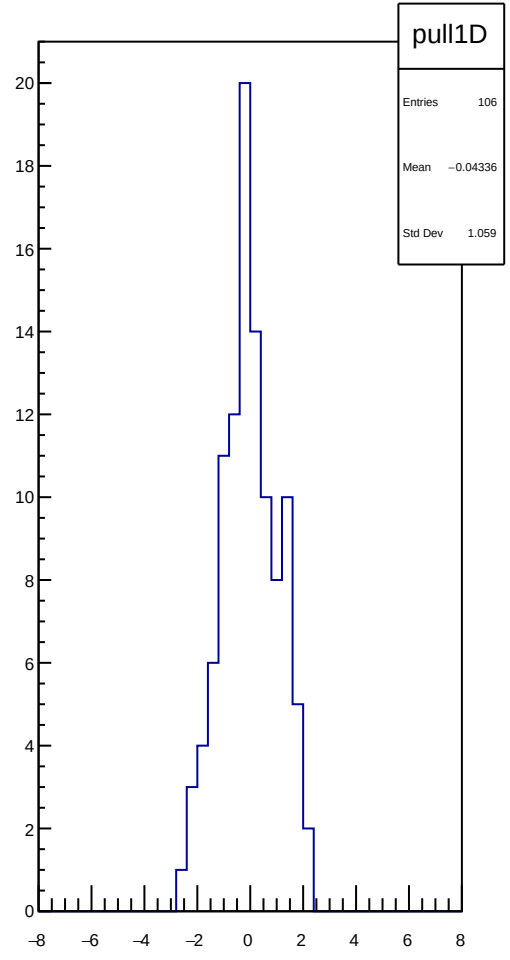

asym_usl_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 101.2 / 105
p0 −4.845e−14 ± 4.604e−14
pull
Entries 106
Mean 190.3
Std Dev 0
pull1D
Entries 106
Mean 0.01554
Std Dev 0.977

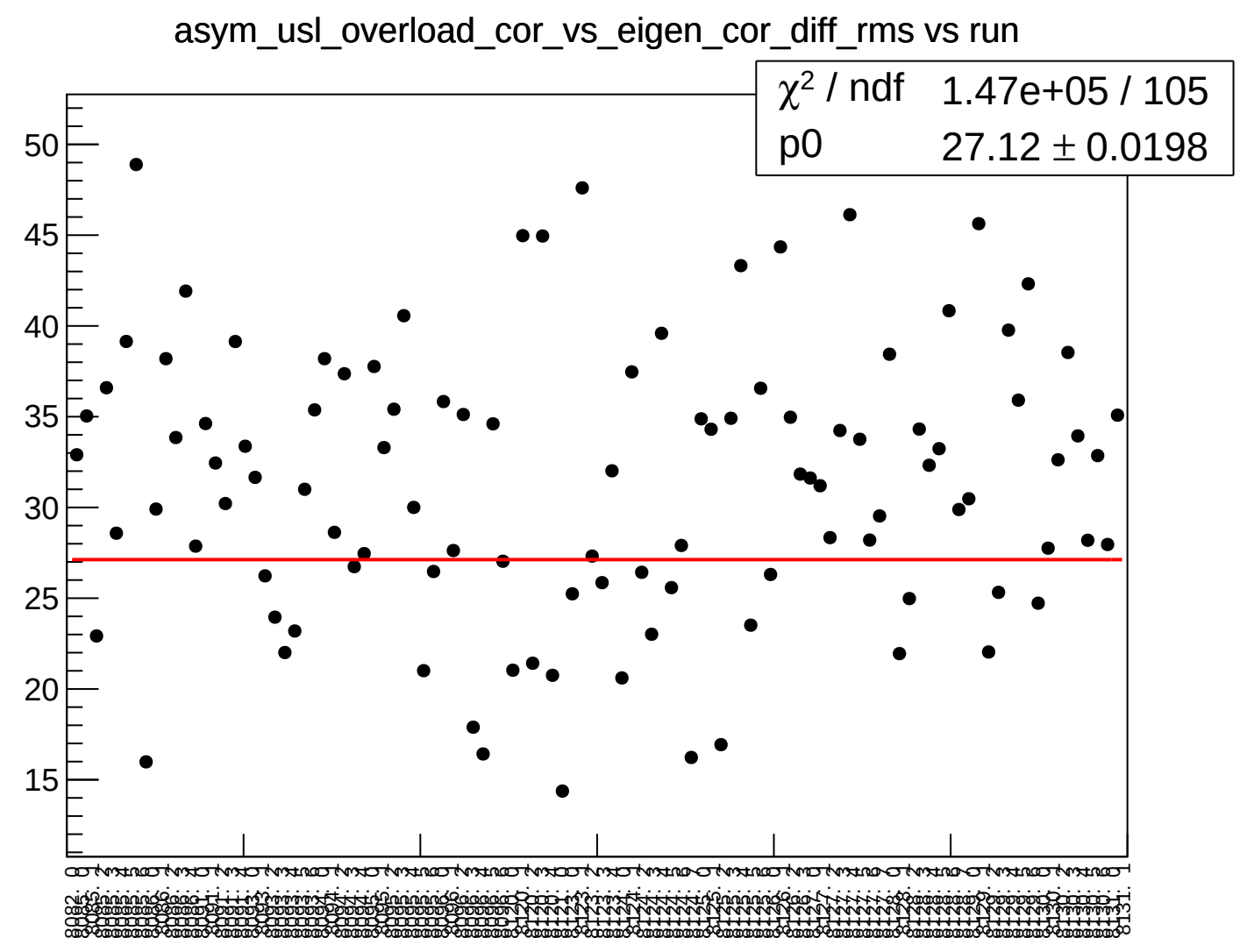

asym_usl_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.022e+05 / 105
p0 3.446e−11 ± 3.255e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

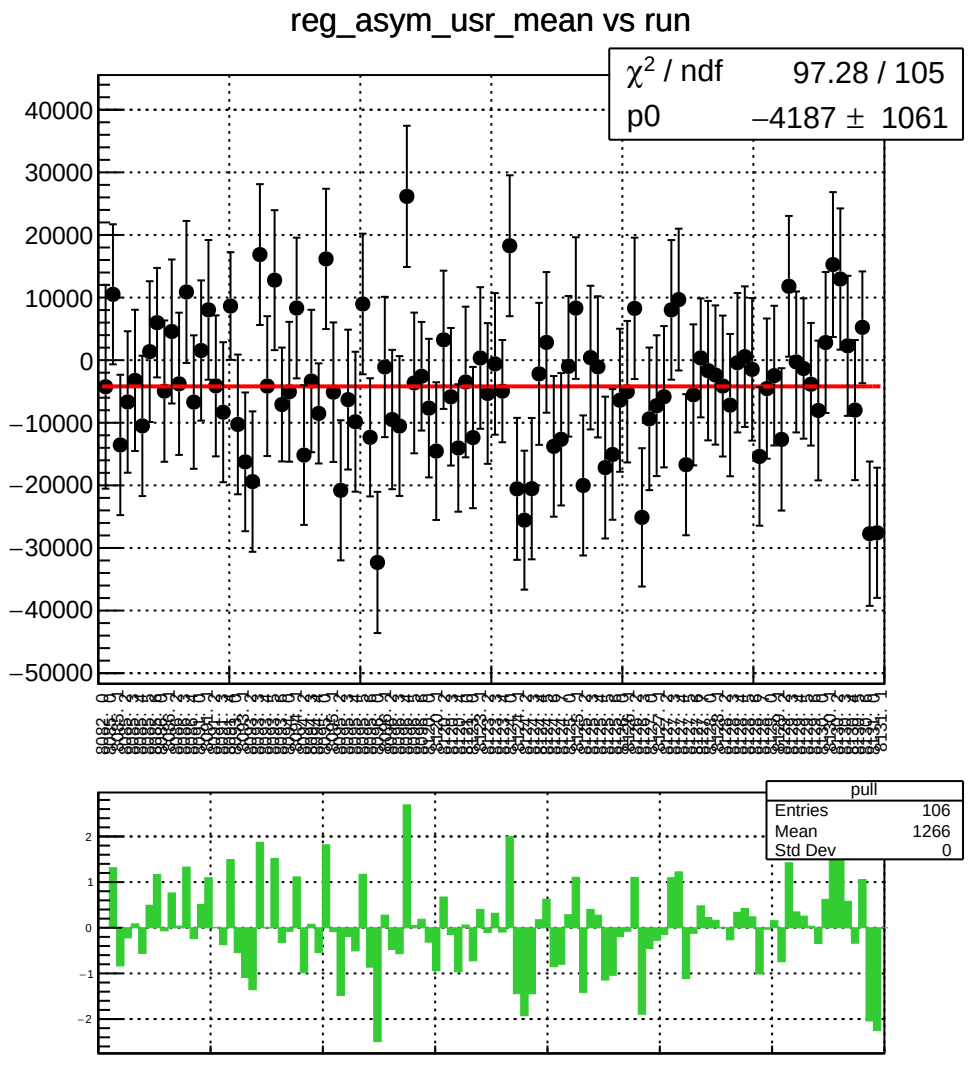

asym_usl_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 119.2 / 105
p0 −0.0486 ± 0.02801
pull
Entries 106
Mean −63.81
Std Dev 0
pull1D
Entries 106
Mean −0.04336
Std Dev 1.059

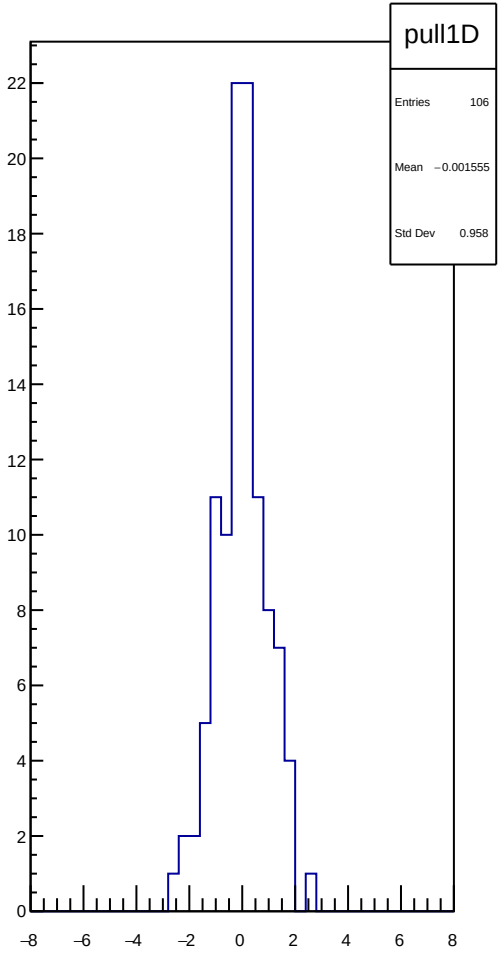

asym_usl_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.47e+05 / 105
p0 27.12 ± 0.0198
50
45
40
35
30
25
20
15

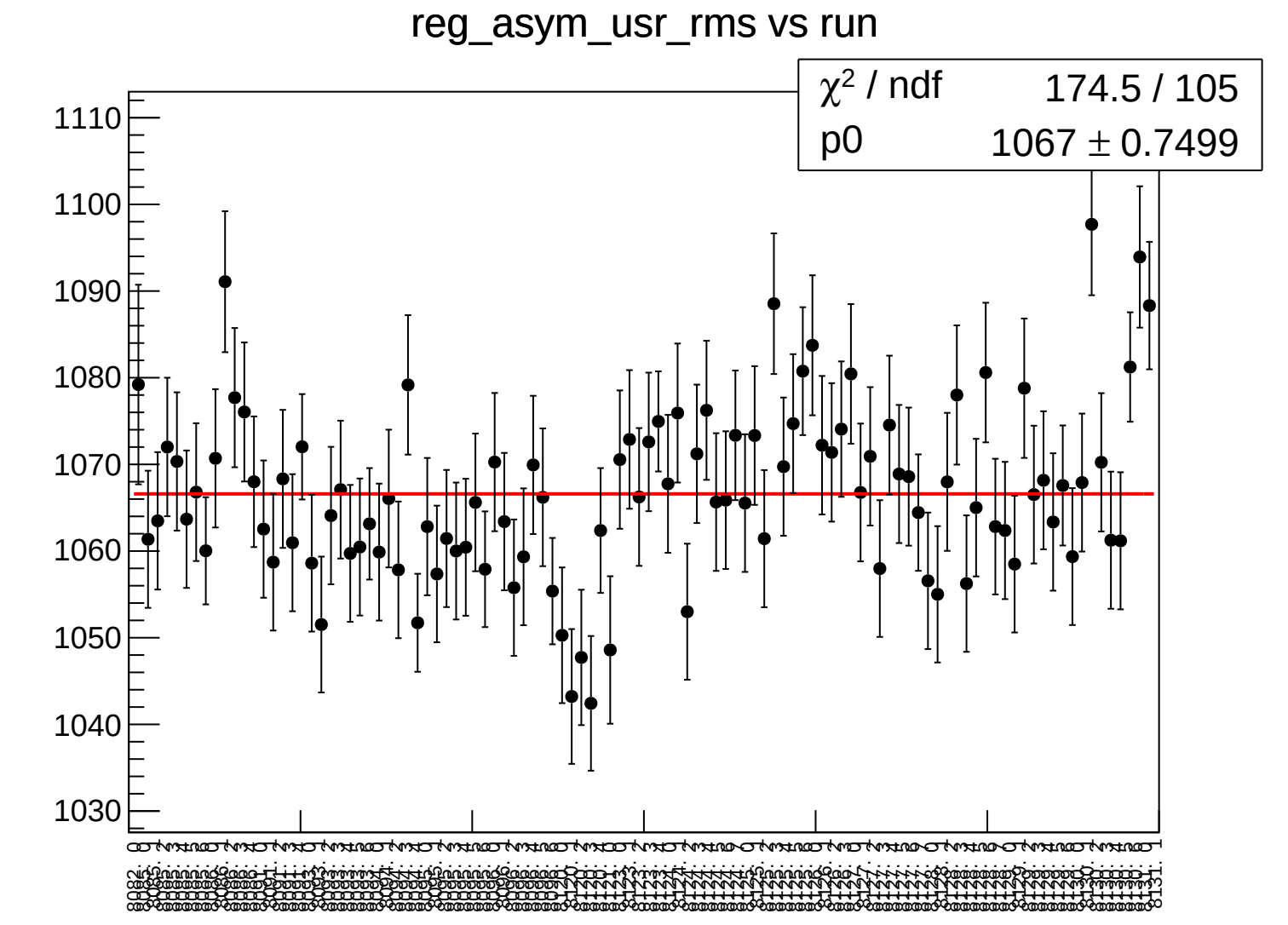

asym_usl_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 119.2 / 105
p0 −0.0486 ± 0.02801
pull
Entries 106
Mean −63.81
Std Dev 0

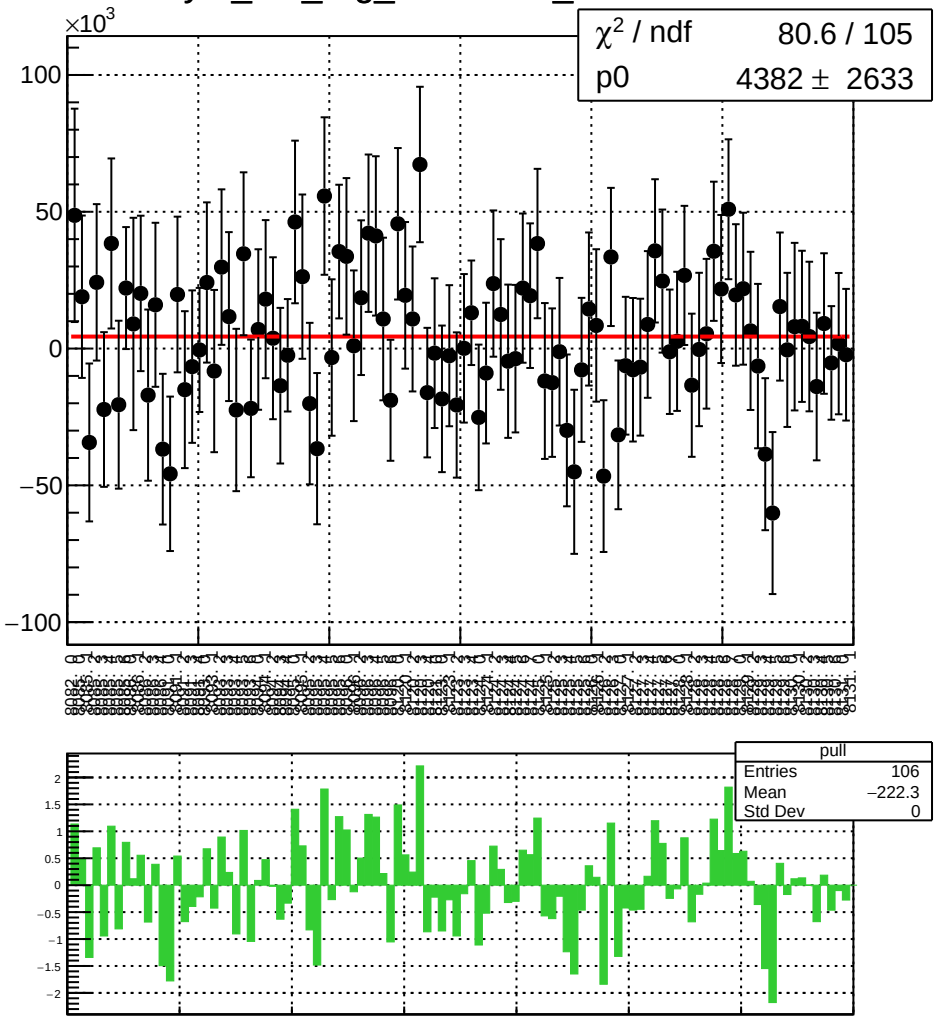

pull1D
Entries 106
Mean −0.04336
Std Dev 1.059

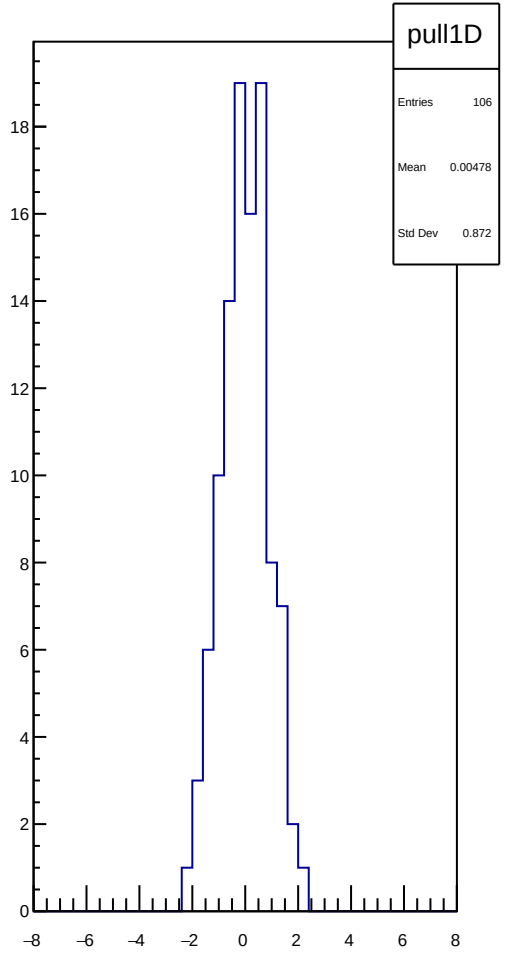

asym_usl_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.47e+05 / 105
p0 27.12 ± 0.0198
50
45
40
35
30
25
20
15

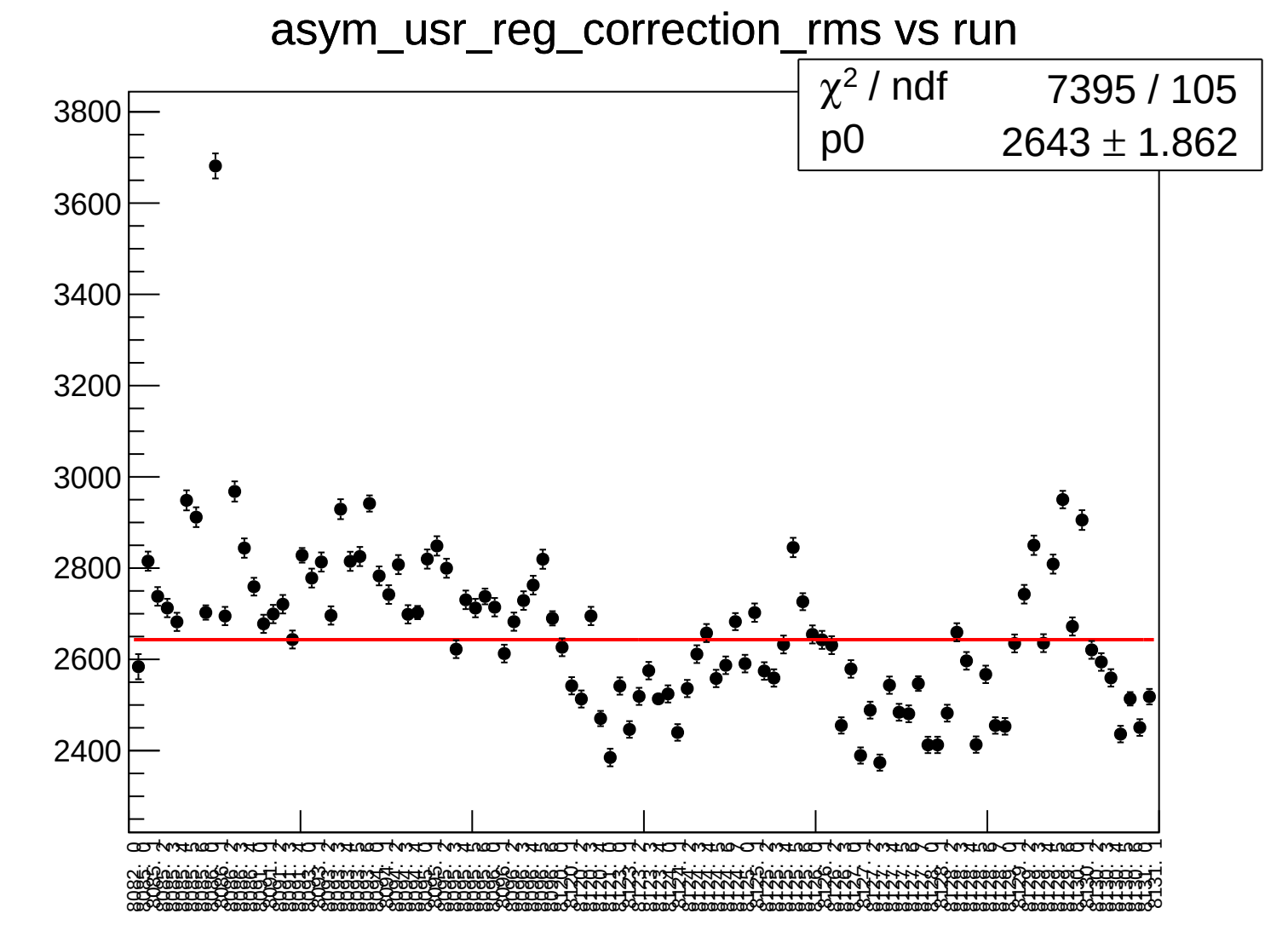

reg_asym_usr_mean vs run
χ² / ndf 97.28 / 105
p0 −4187 ± 1061
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
pull
Entries 106
Mean 1266
Std Dev 0
2
1
0
−1
−2

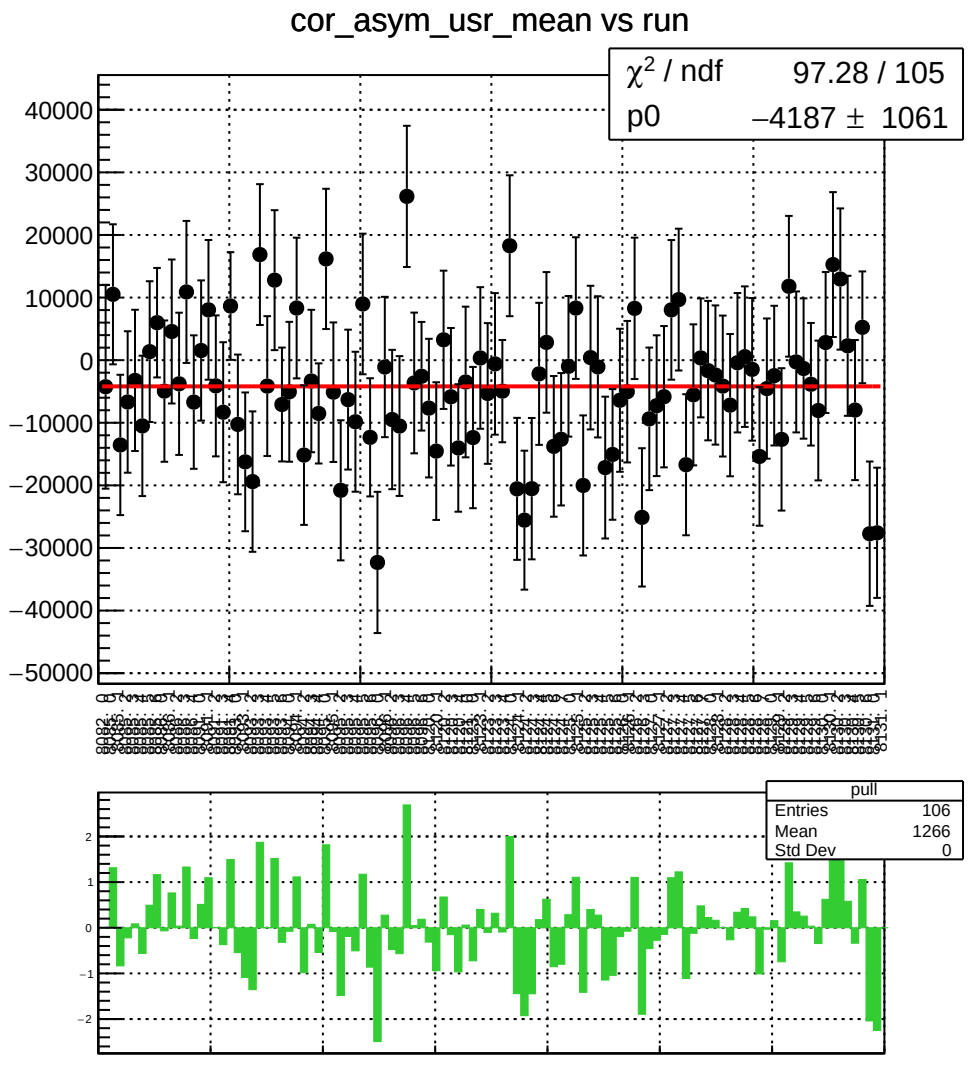

pull1D
Entries 106
Mean −0.001555
Std Dev 0.958
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

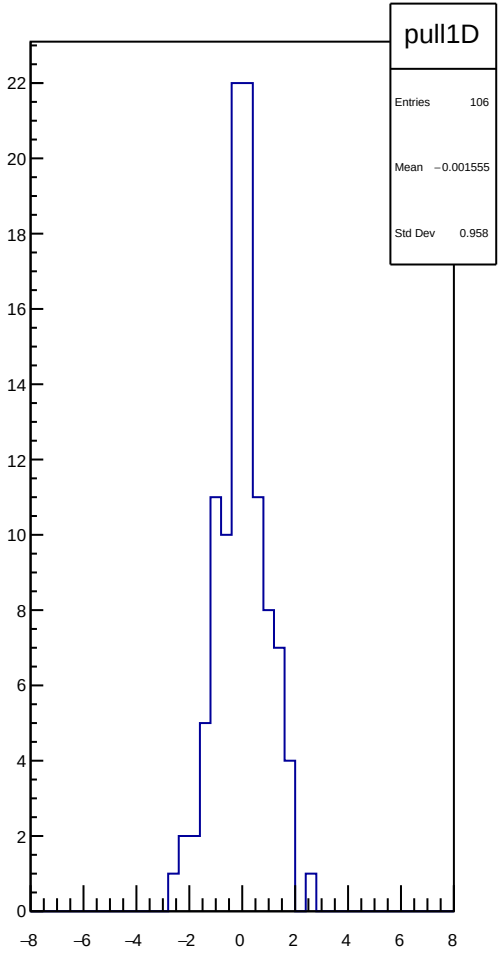

reg_asym_usr_rms vs run
χ² / ndf 174.5 / 105
p0 1067 ± 0.7499
1110
1100
1090
1080
1070
1060
1050
1040
1030

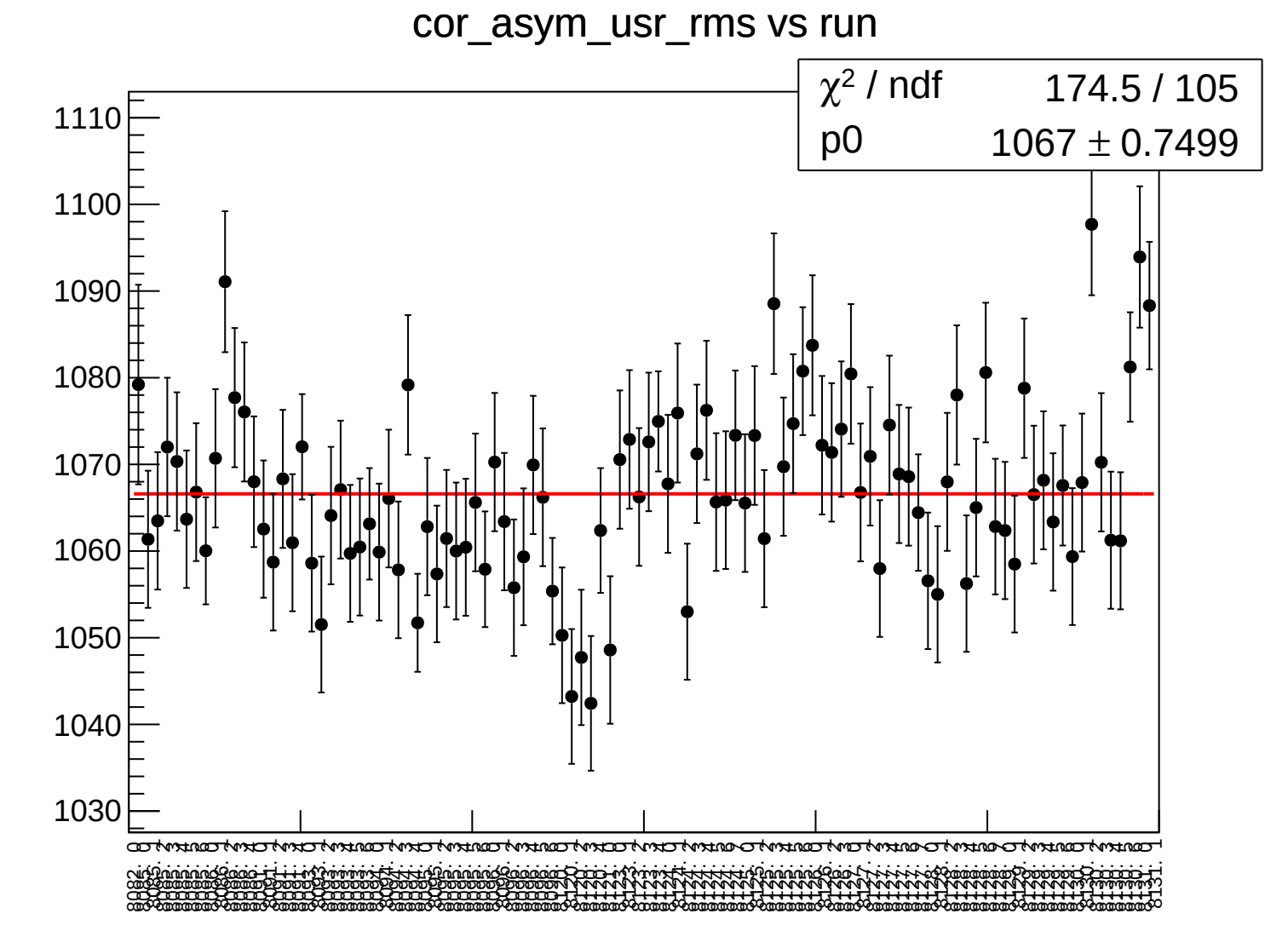

asym_usr_reg_correction_mean vs run
×10^3
χ^2 / ndf 80.6 / 105
p0 4382 ± 2633
100
50
0
−50
−100
pull
Entries 106
Mean −222.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

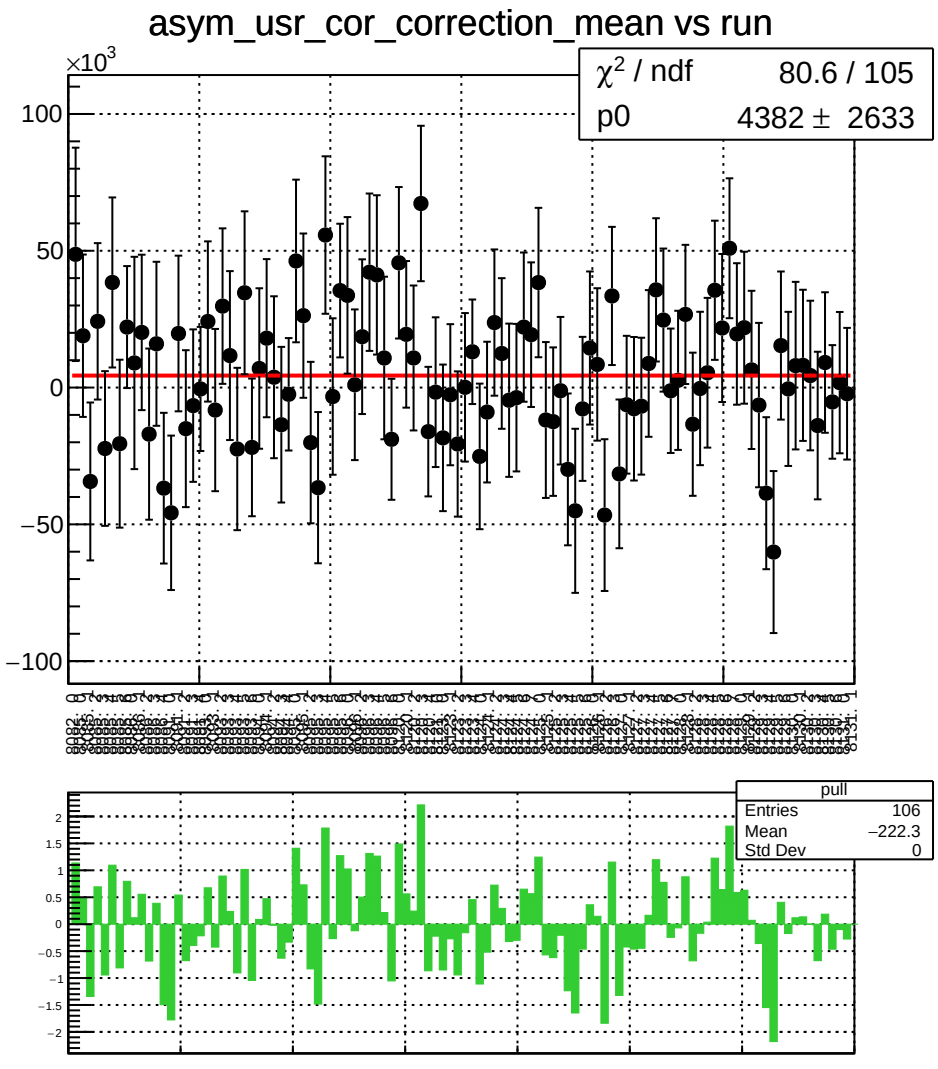

pull1D
Entries 106
Mean 0.00478
Std Dev 0.872
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

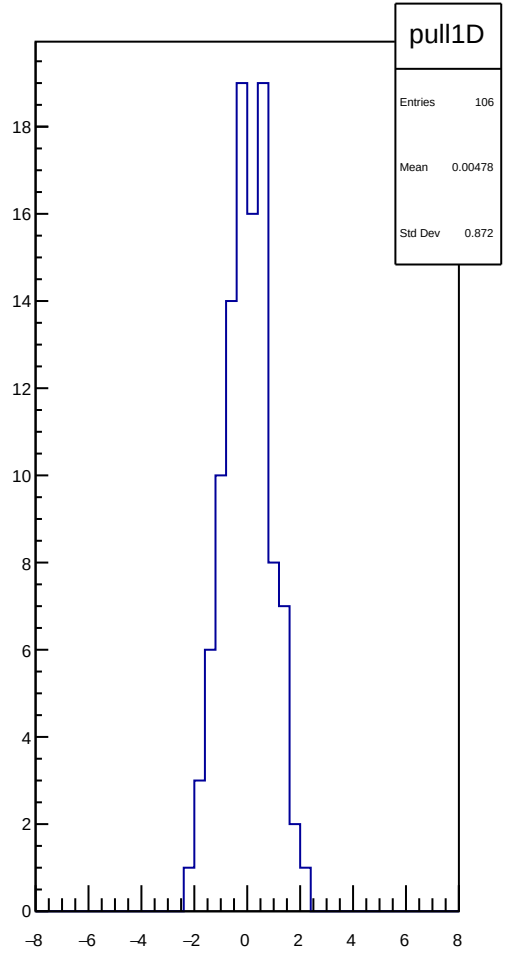

asym_usr_reg_correction_rms vs run
χ² / ndf 7395 / 105
p0 2643 ± 1.862
3800
3600
3400
3200
3000
2800
2600
2400

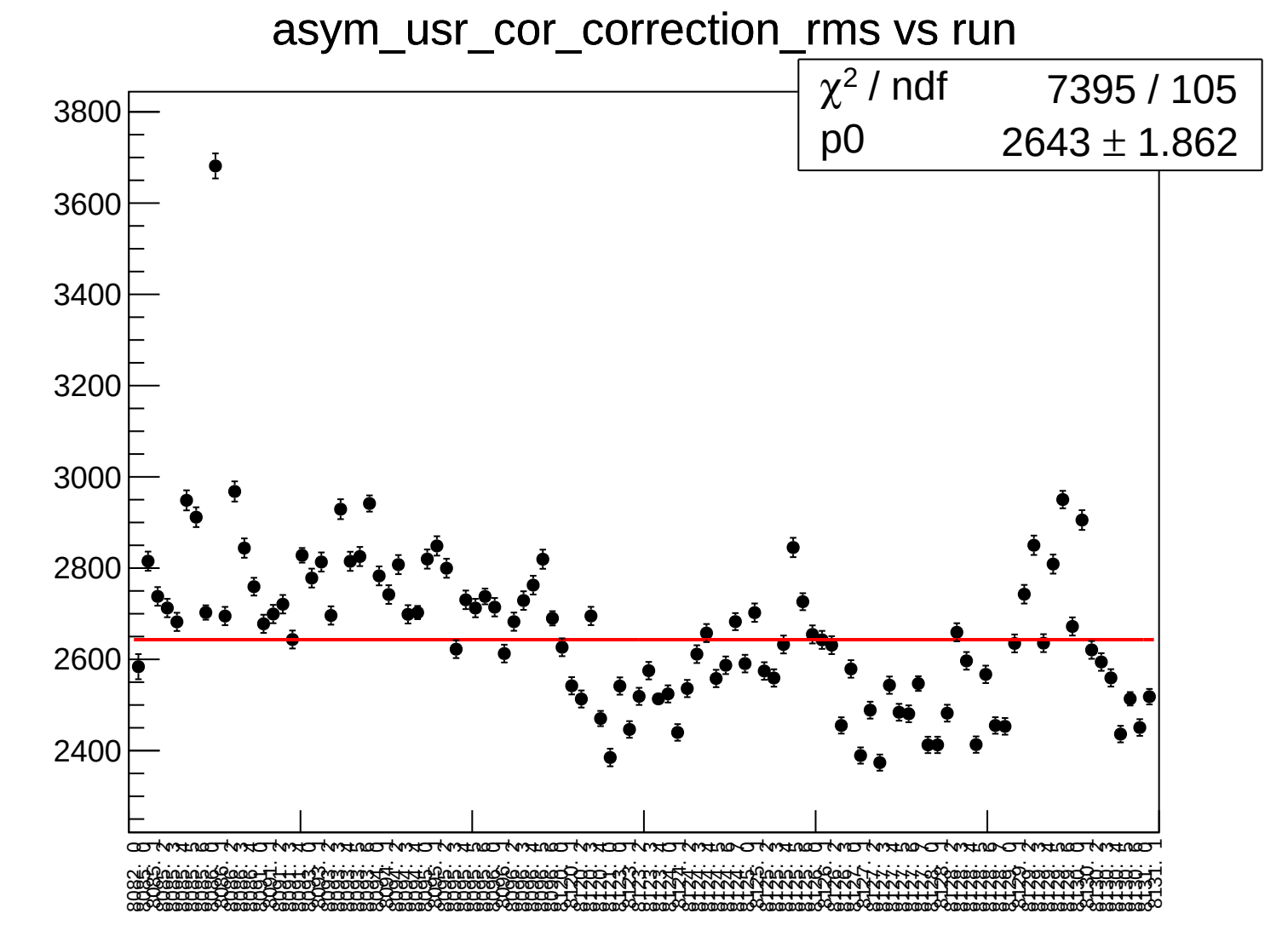

cor_asym_usr_mean vs run
χ² / ndf 97.28 / 105
p0 −4187 ± 1061
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
pull
Entries 106
Mean 1266
Std Dev 0
2
1
0
−1
−2

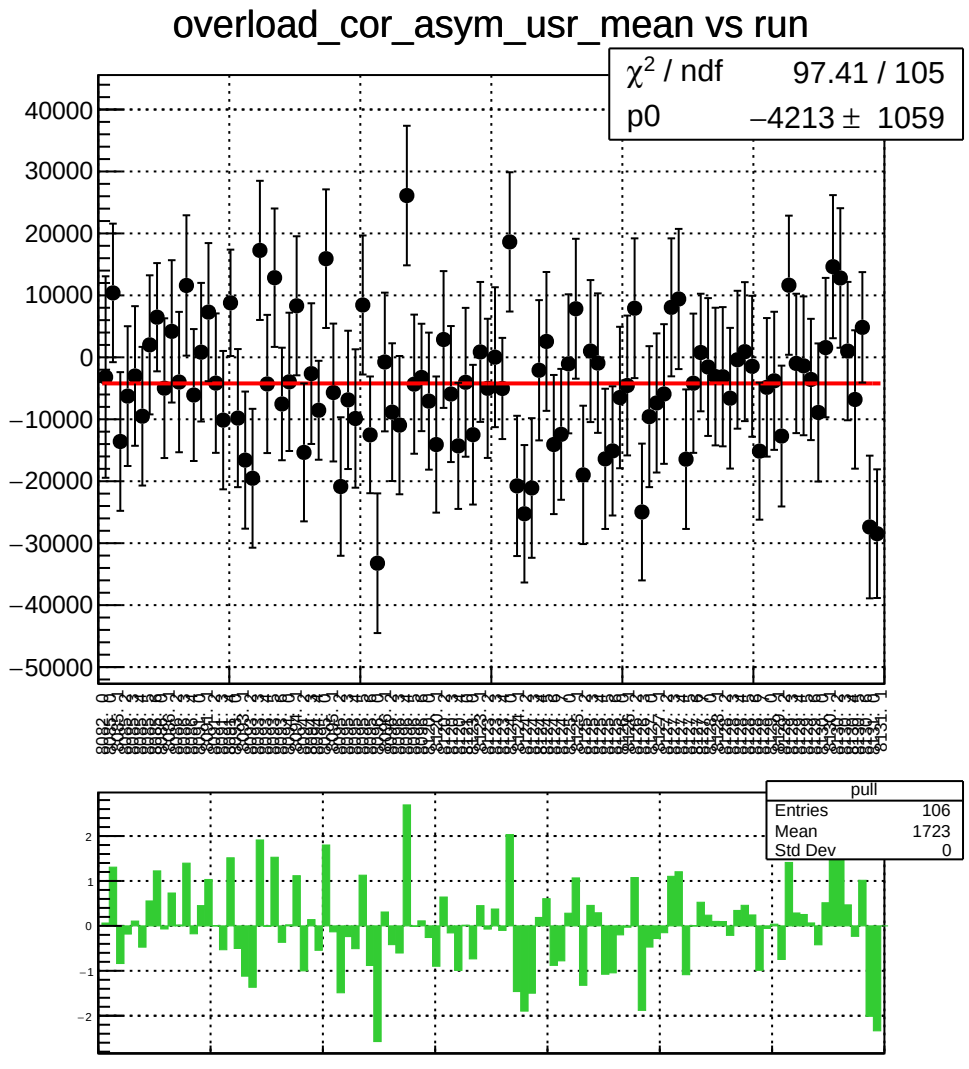

pull1D
Entries 106
Mean −0.001555
Std Dev 0.958
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

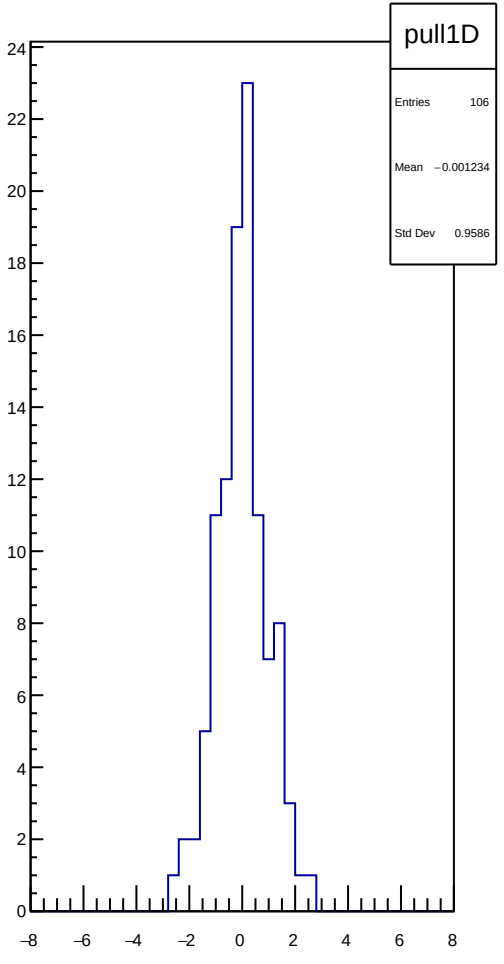

cor_asym_usr_rms vs run
χ² / ndf 174.5 / 105
p0 1067 ± 0.7499
1110
1100
1090
1080
1070
1060
1050
1040
1030

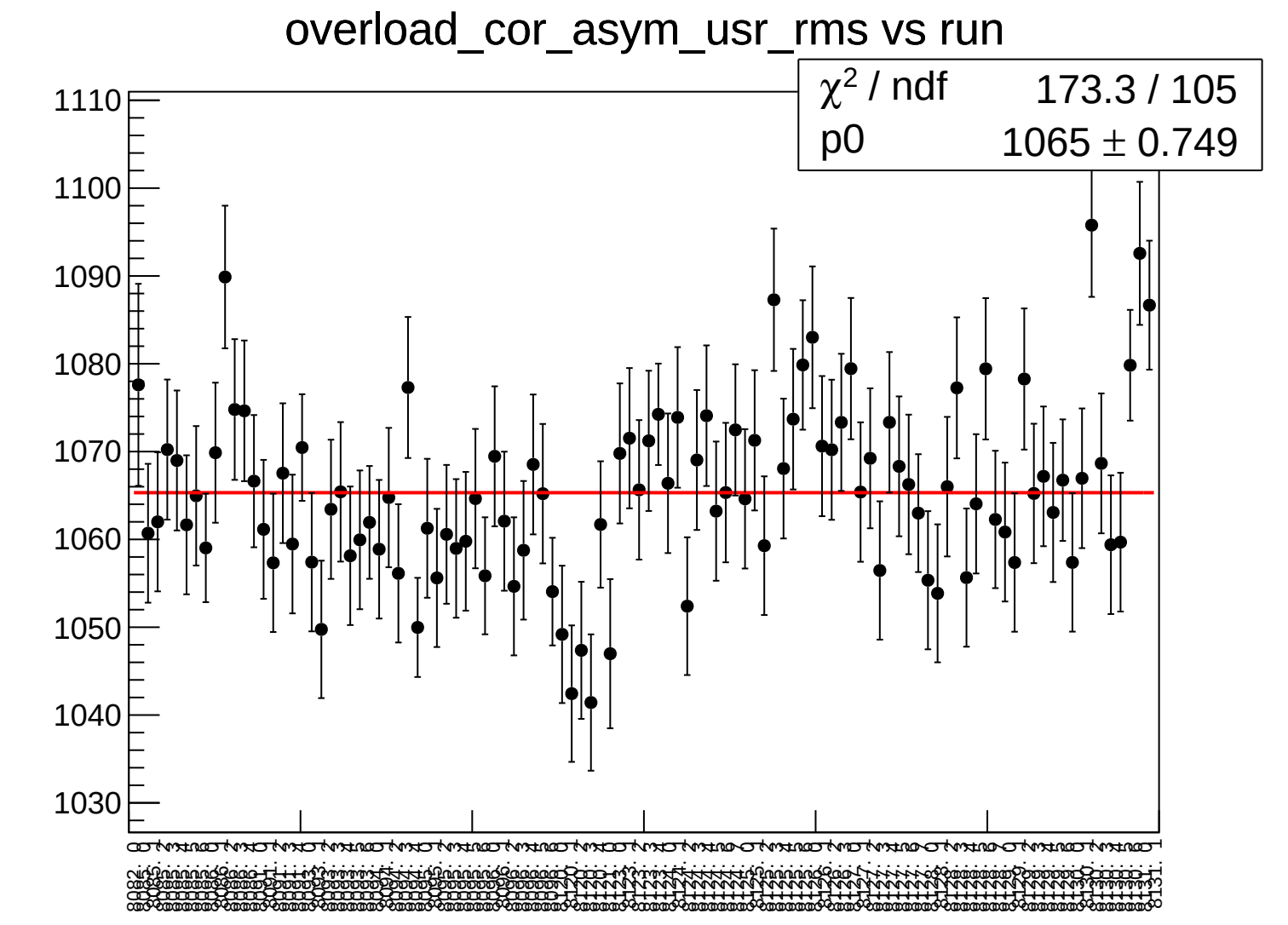

asym_usr_cor_correction_mean vs run
×10^3
χ² / ndf 80.6 / 105
p0 4382 ± 2633
100
50
0
−50
−100
pull
Entries 106
Mean −222.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

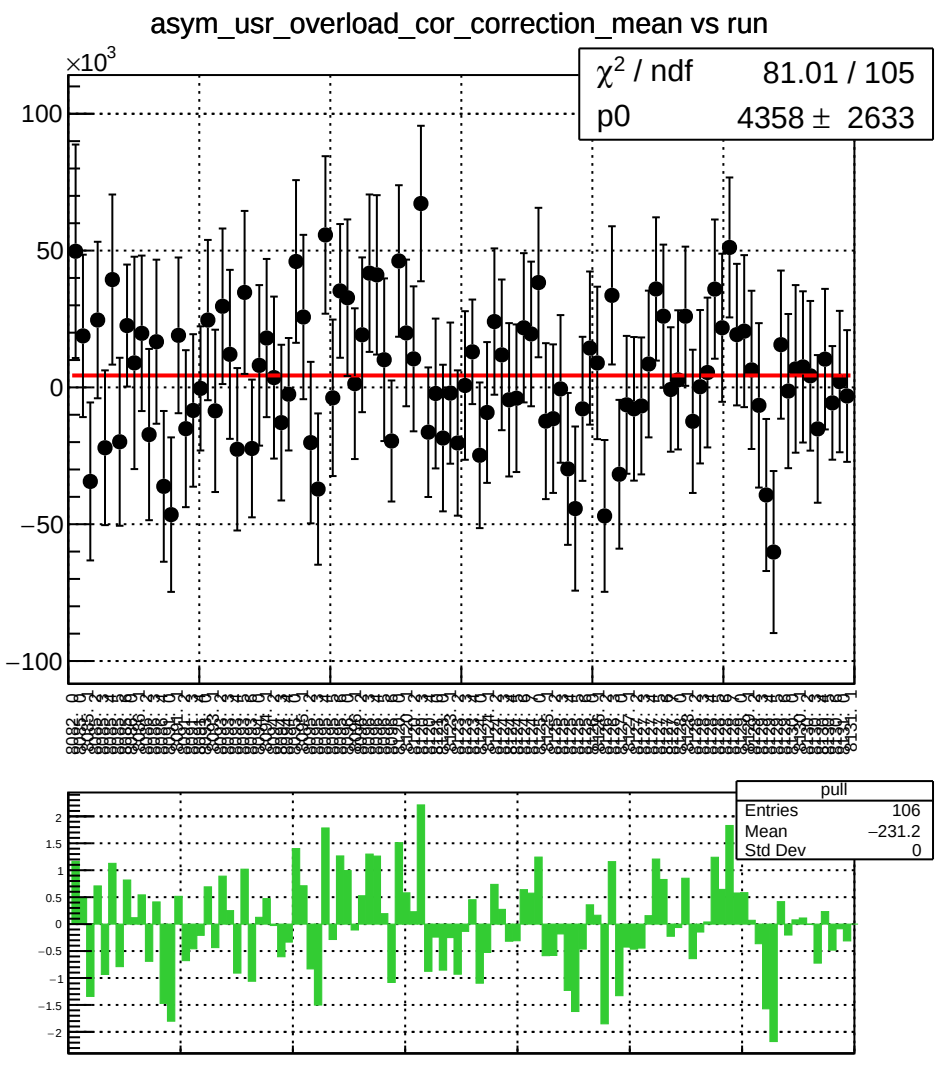

pull1D
Entries 106
Mean 0.00478
Std Dev 0.872
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

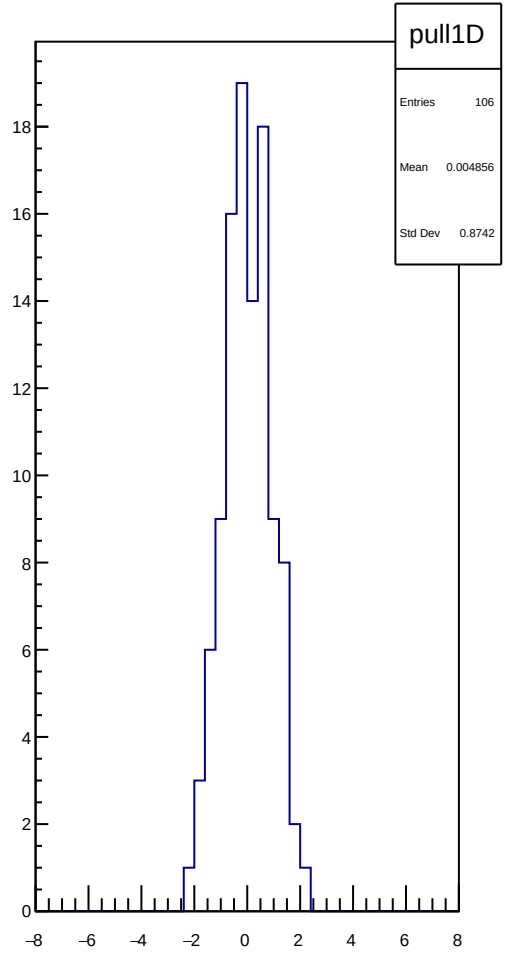

asym_usr_cor_correction_rms vs run
$\chi^2$ / ndf 7395 / 105
p0 2643 ± 1.862
3800
3600
3400
3200
3000
2800
2600
2400

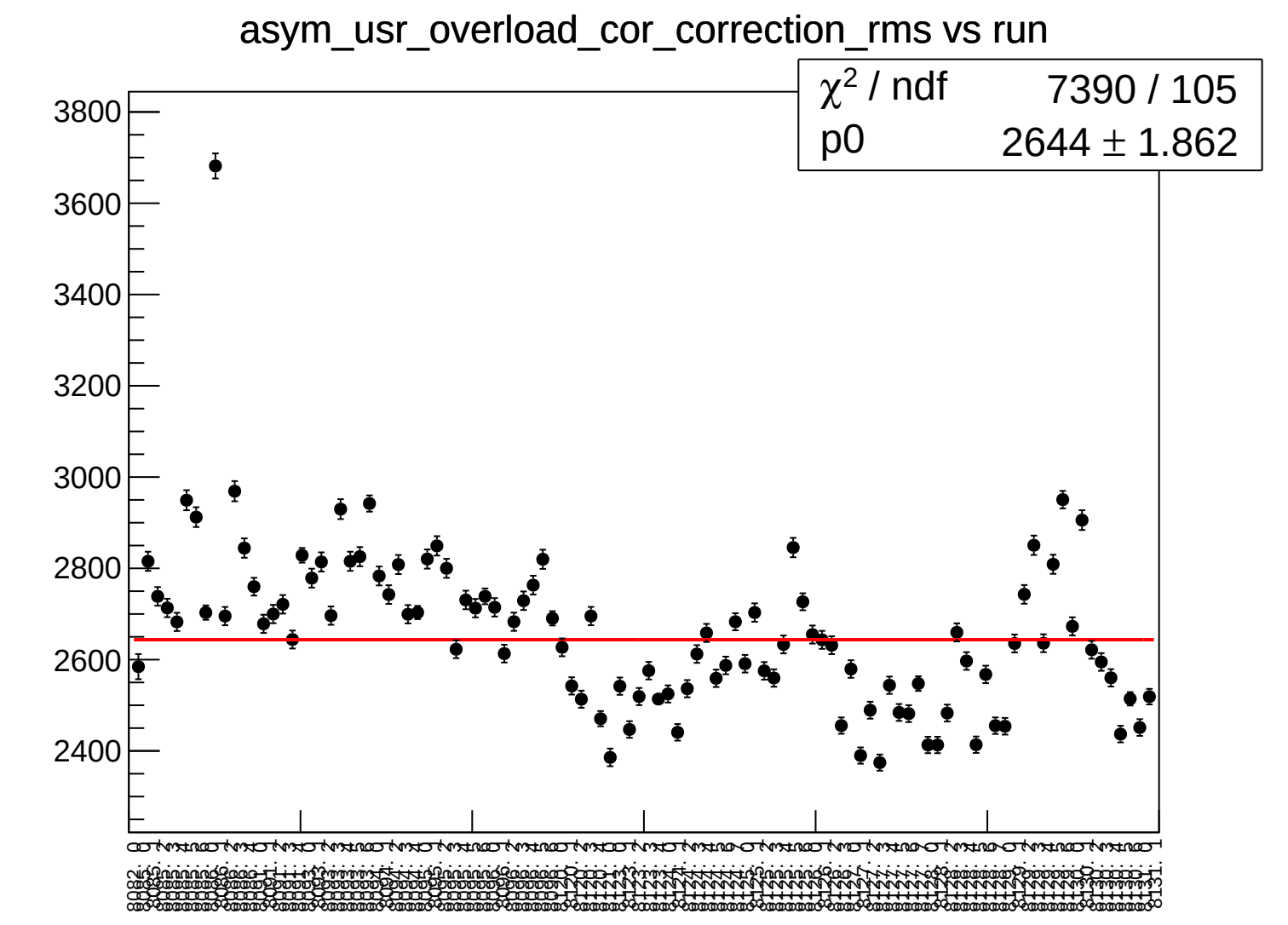

overload_cor_asym_usr_mean vs run
χ² / ndf 97.41 / 105
p0 −4213 ± 1059
pull
Entries 106
Mean 1723
Std Dev 0

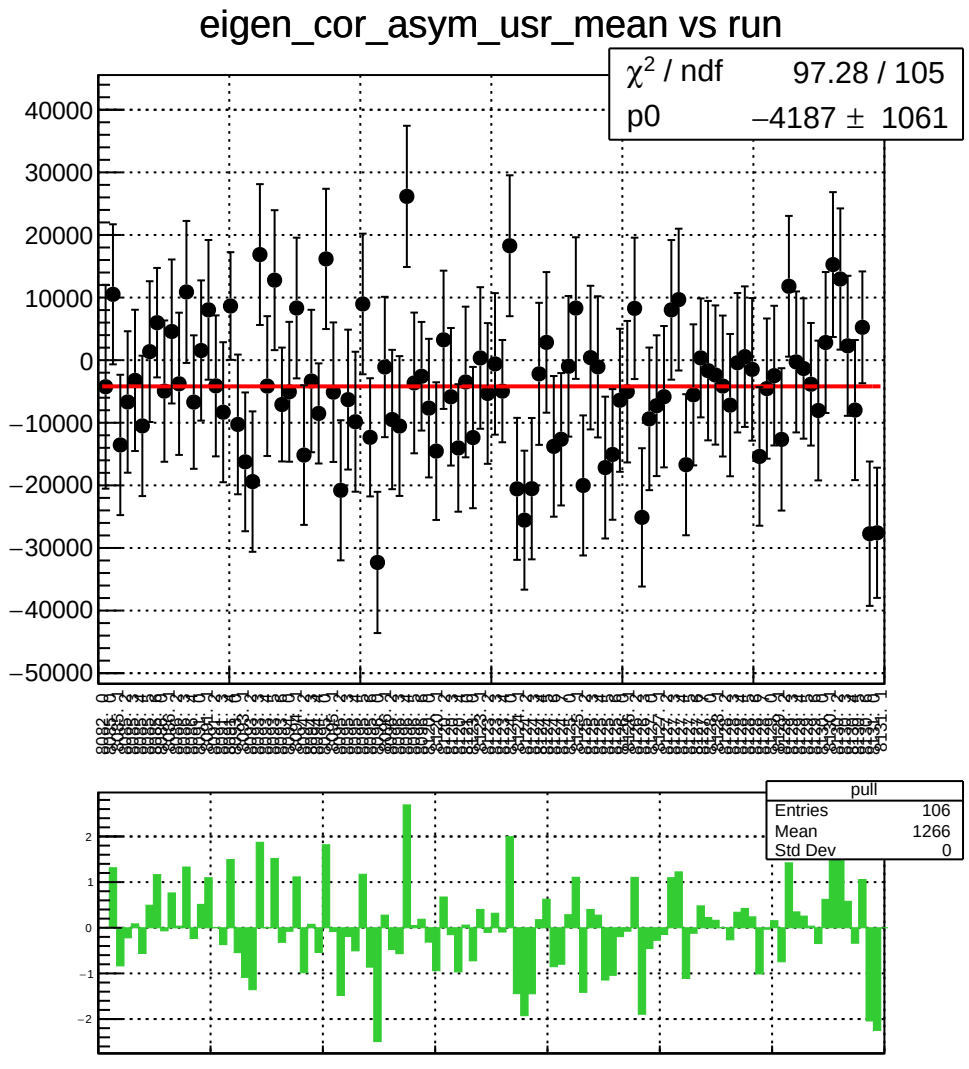

pull1D
Entries 106
Mean −0.001234
Std Dev 0.9586

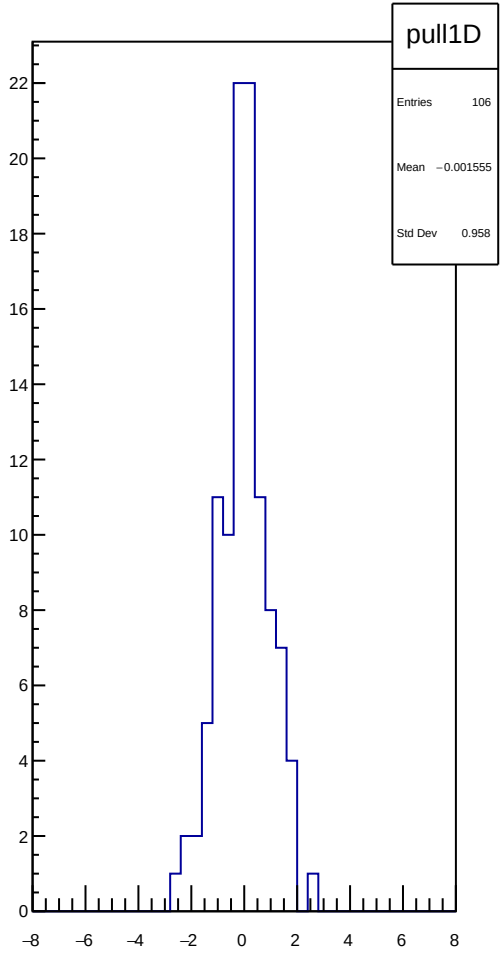

overload_cor_asym_usr_rms vs run
χ² / ndf 173.3 / 105
p0 1065 ± 0.749
1110
1100
1090
1080
1070
1060
1050
1040
1030

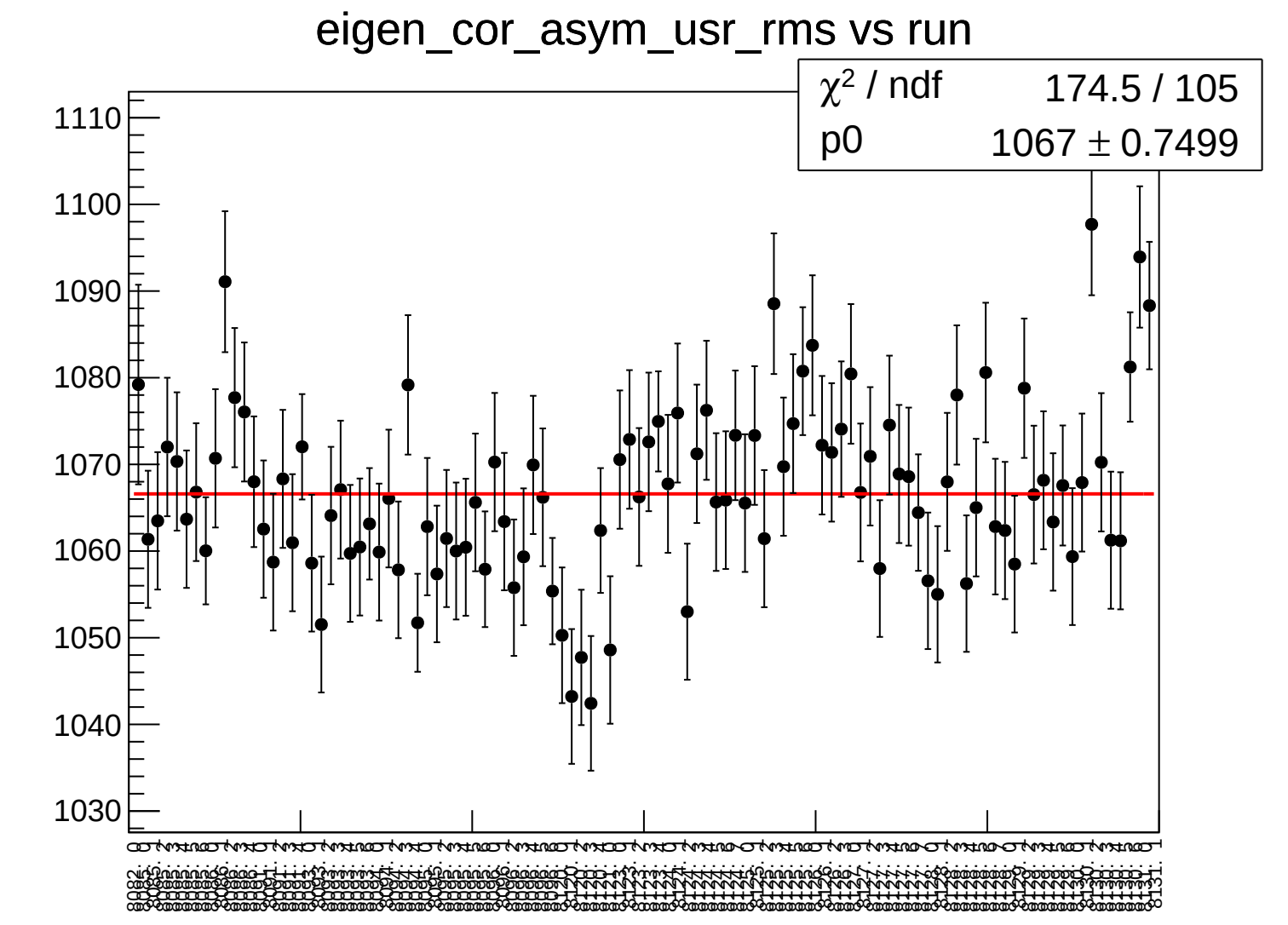

asym_usr_overload_cor_correction_mean vs run
×10^3
χ² / ndf 81.01 / 105
p0 4358 ± 2633
100
50
0
−50
−100
pull
Entries 106
Mean −231.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

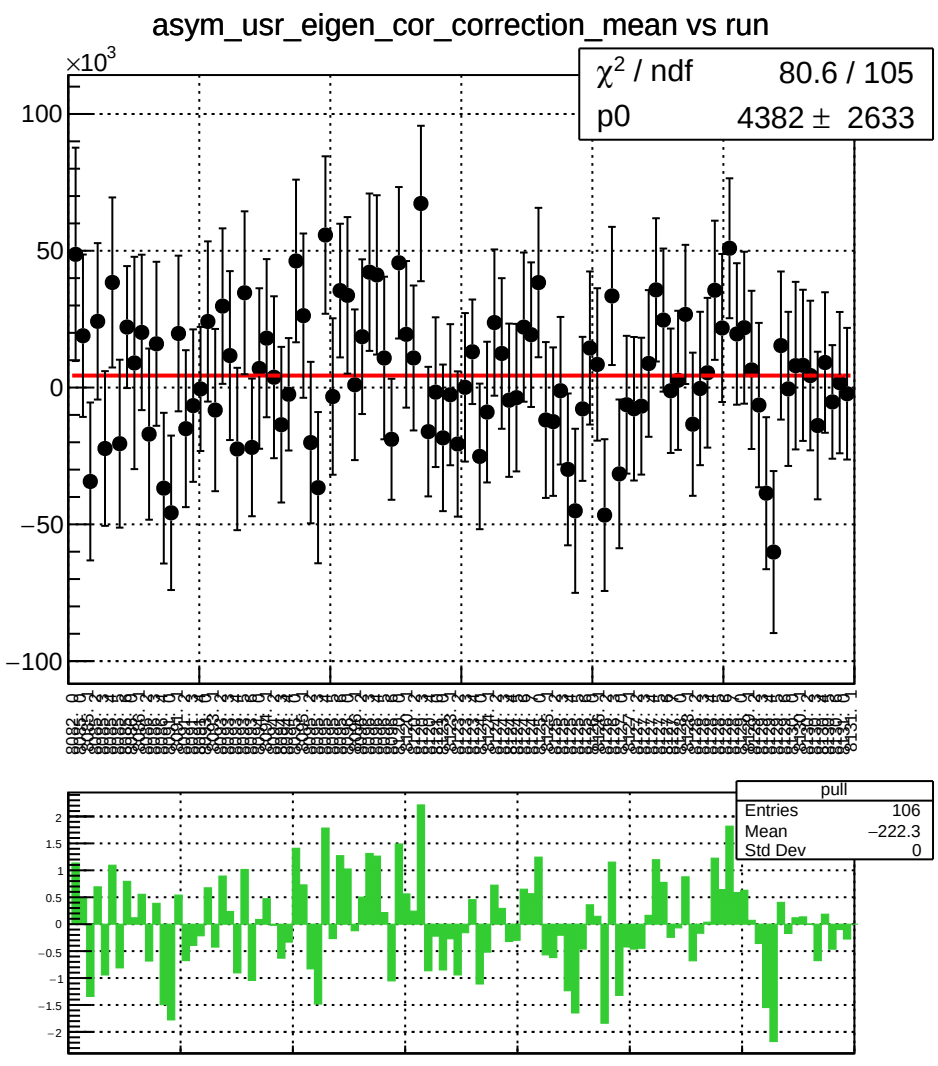

pull1D
Entries 106
Mean 0.004856
Std Dev 0.8742
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

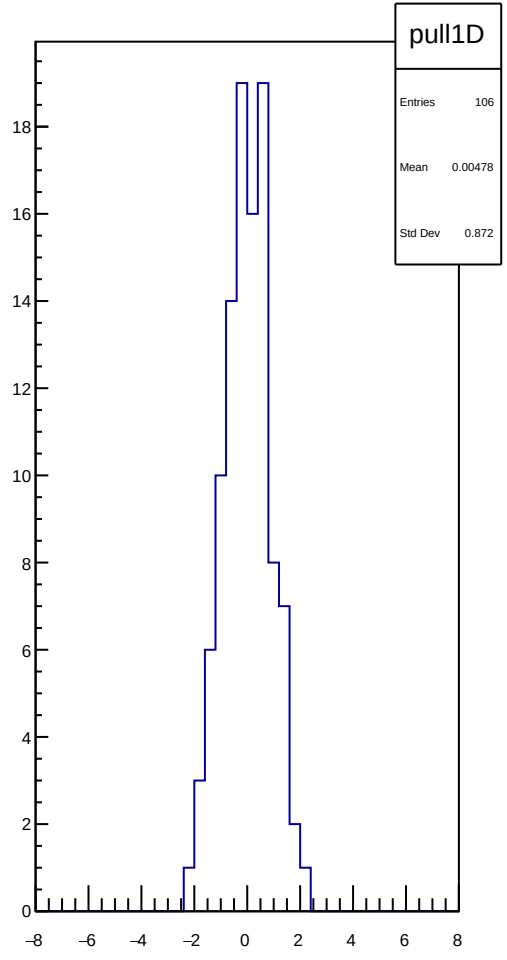

asym_usr_overload_cor_correction_rms vs run
χ² / ndf 7390 / 105
p0 2644 ± 1.862
3800
3600
3400
3200
3000
2800
2600
2400

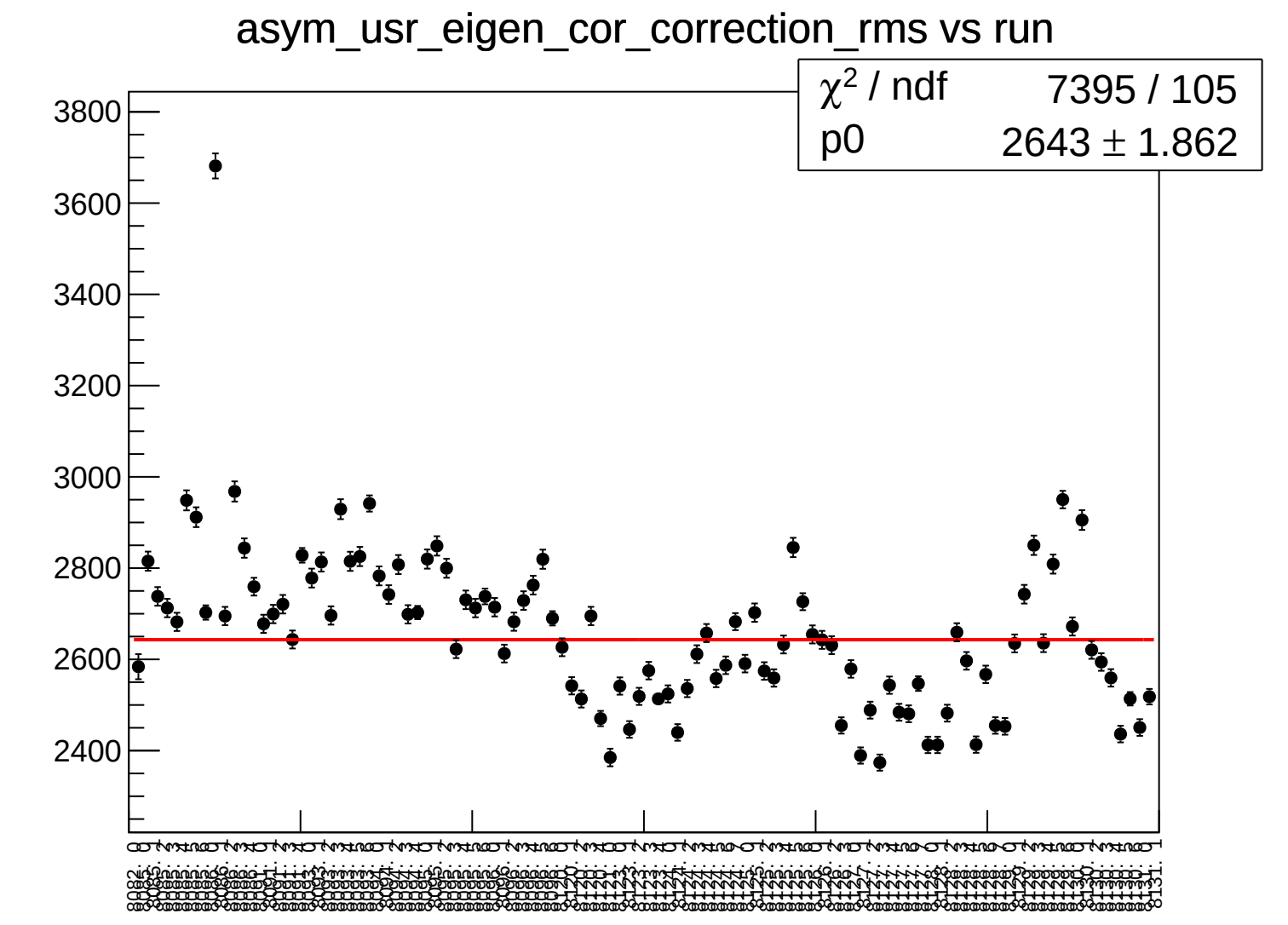

eigen_cor_asym_usr_mean vs run
χ² / ndf 97.28 / 105
p0 −4187 ± 1061
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
pull
Entries 106
Mean 1266
Std Dev 0
2
1
0
−1
−2

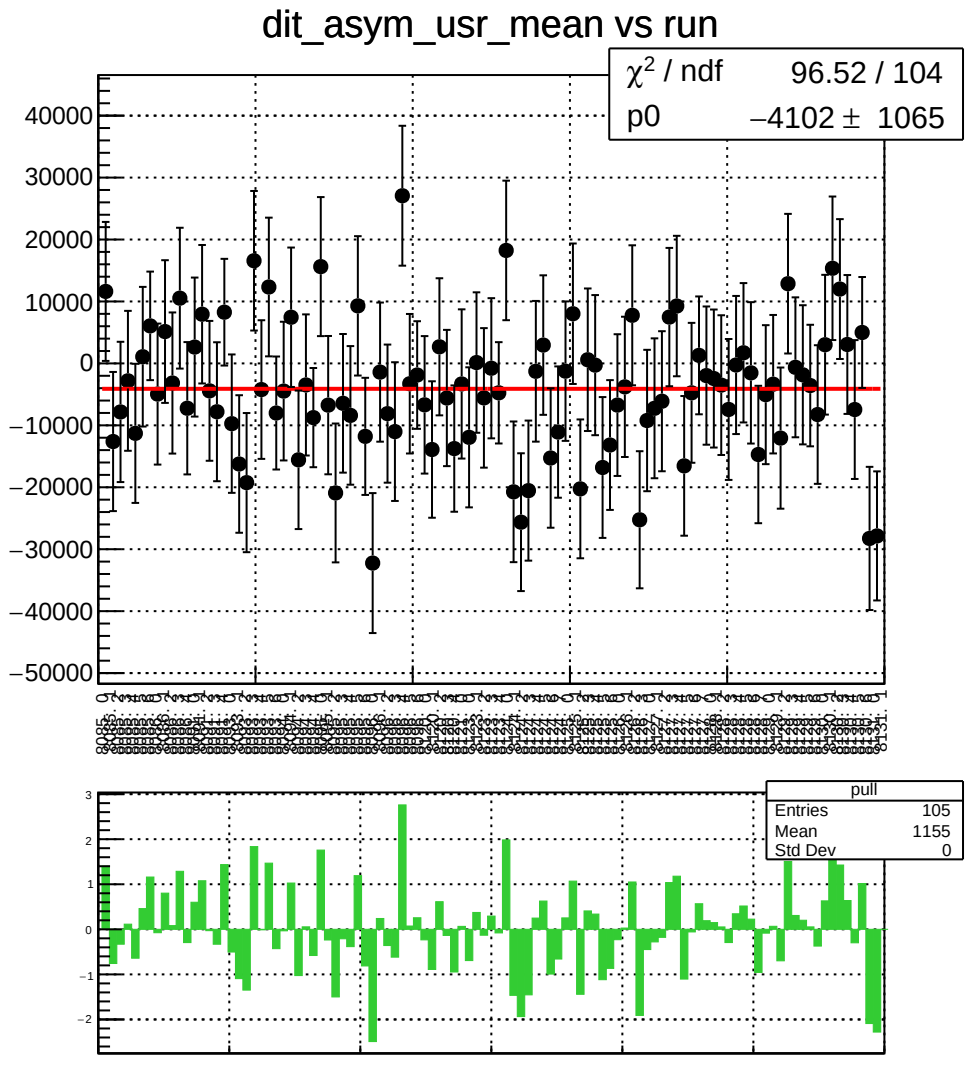

pull1D
Entries 106
Mean −0.001555
Std Dev 0.958
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

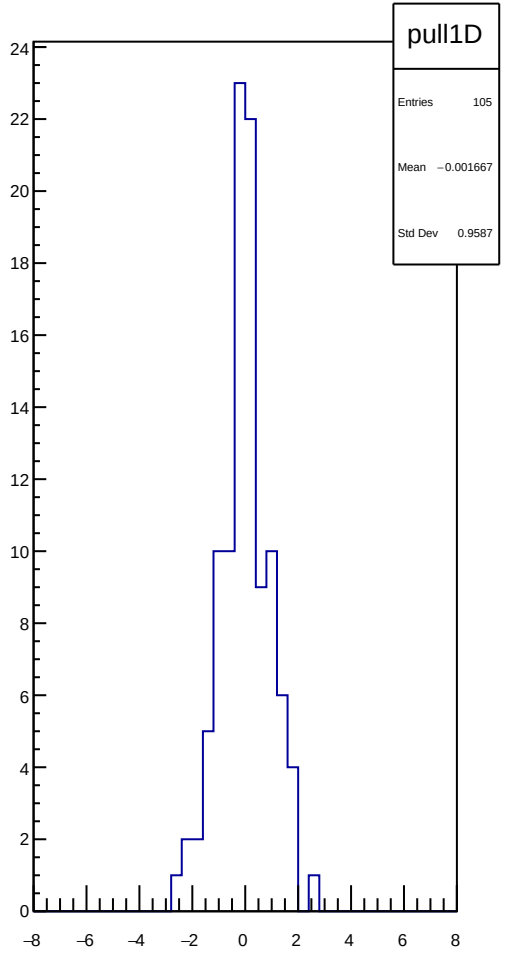

eigen_cor_asym_usr_rms vs run
χ² / ndf 174.5 / 105
p0 1067 ± 0.7499
1110
1100
1090
1080
1070
1060
1050
1040
1030

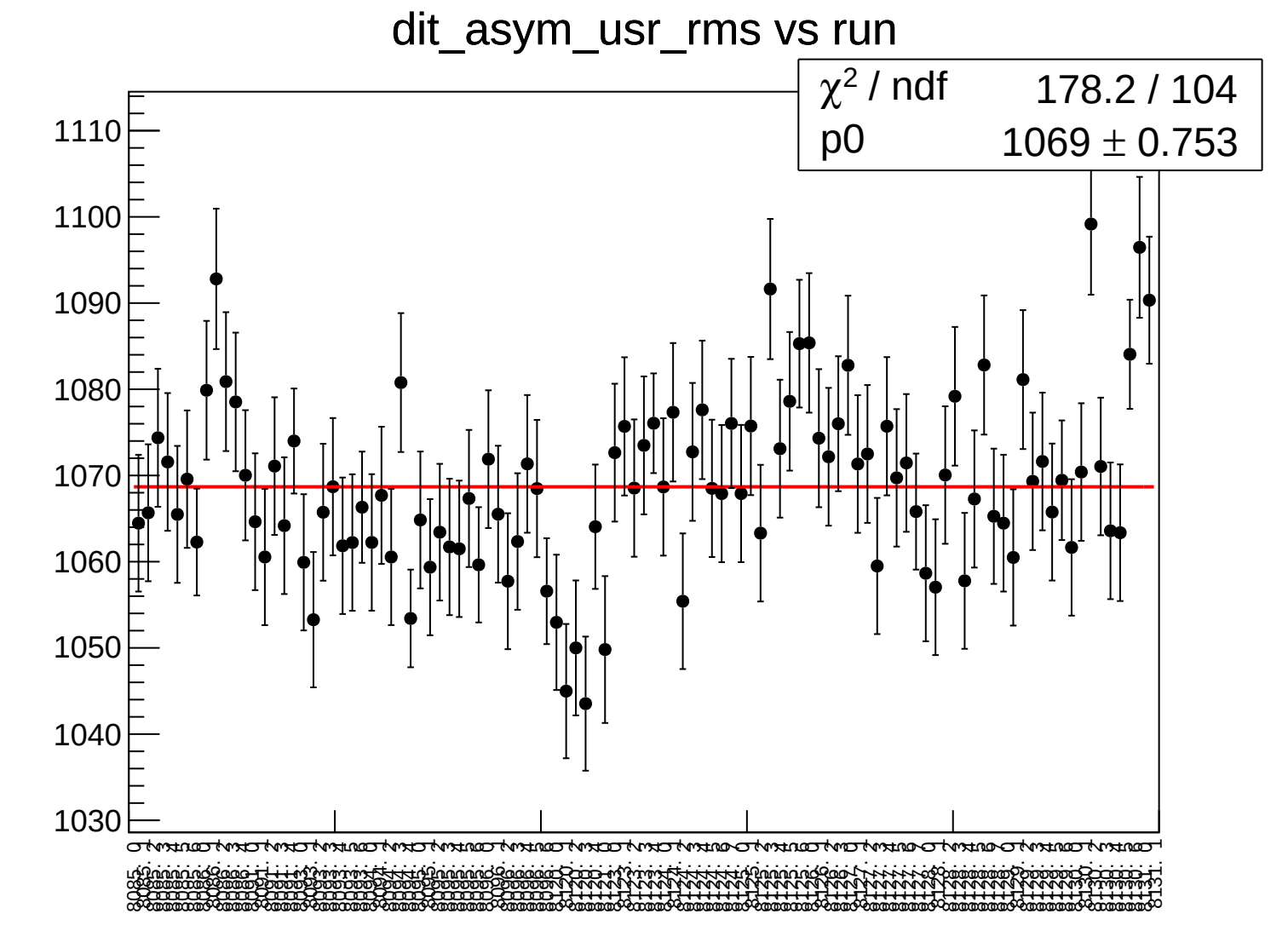

asym_usr_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 80.6 / 105
p0 4382 ± 2633
100
50
0
−50
−100
pull
Entries 106
Mean −222.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

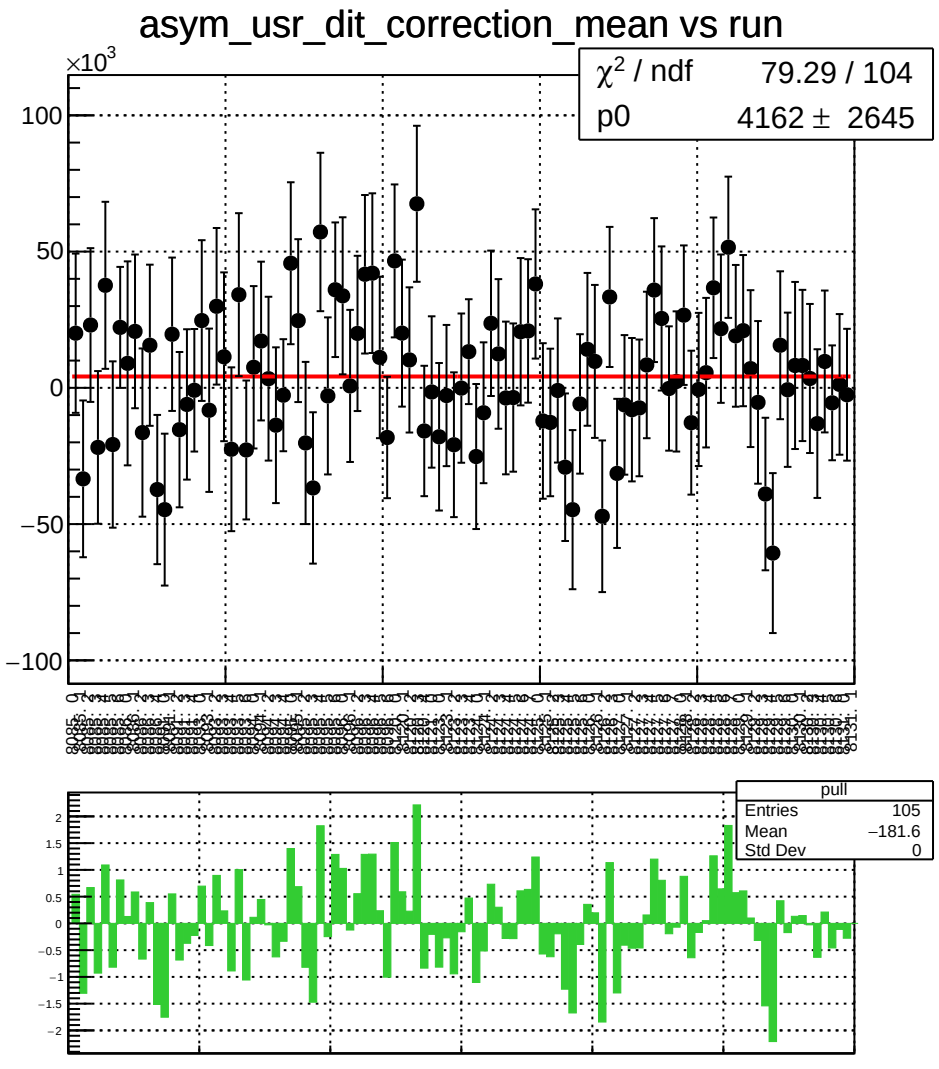

pull1D
Entries 106
Mean 0.00478
Std Dev 0.872
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

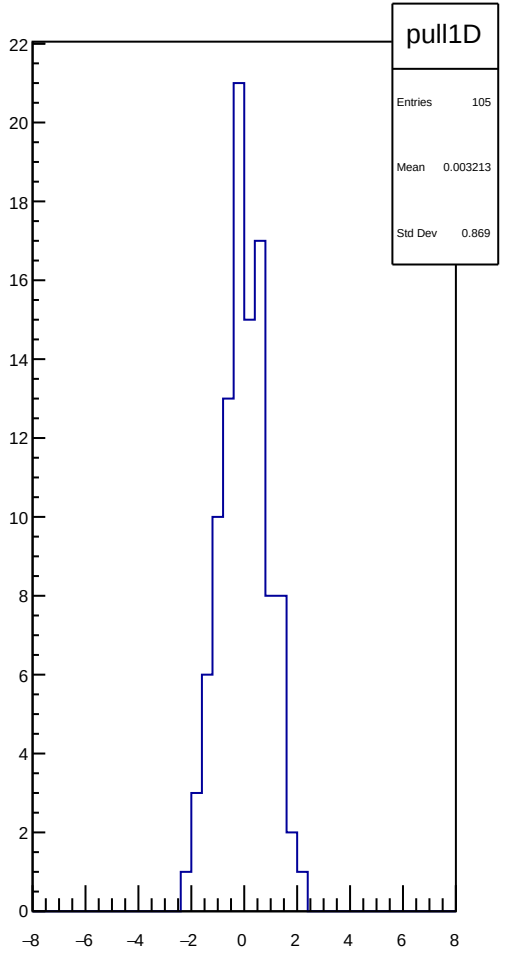

asym_usr_eigen_cor_correction_rms vs run
$\chi^2$ / ndf 7395 / 105
p0 2643 ± 1.862
3800
3600
3400
3200
3000
2800
2600
2400

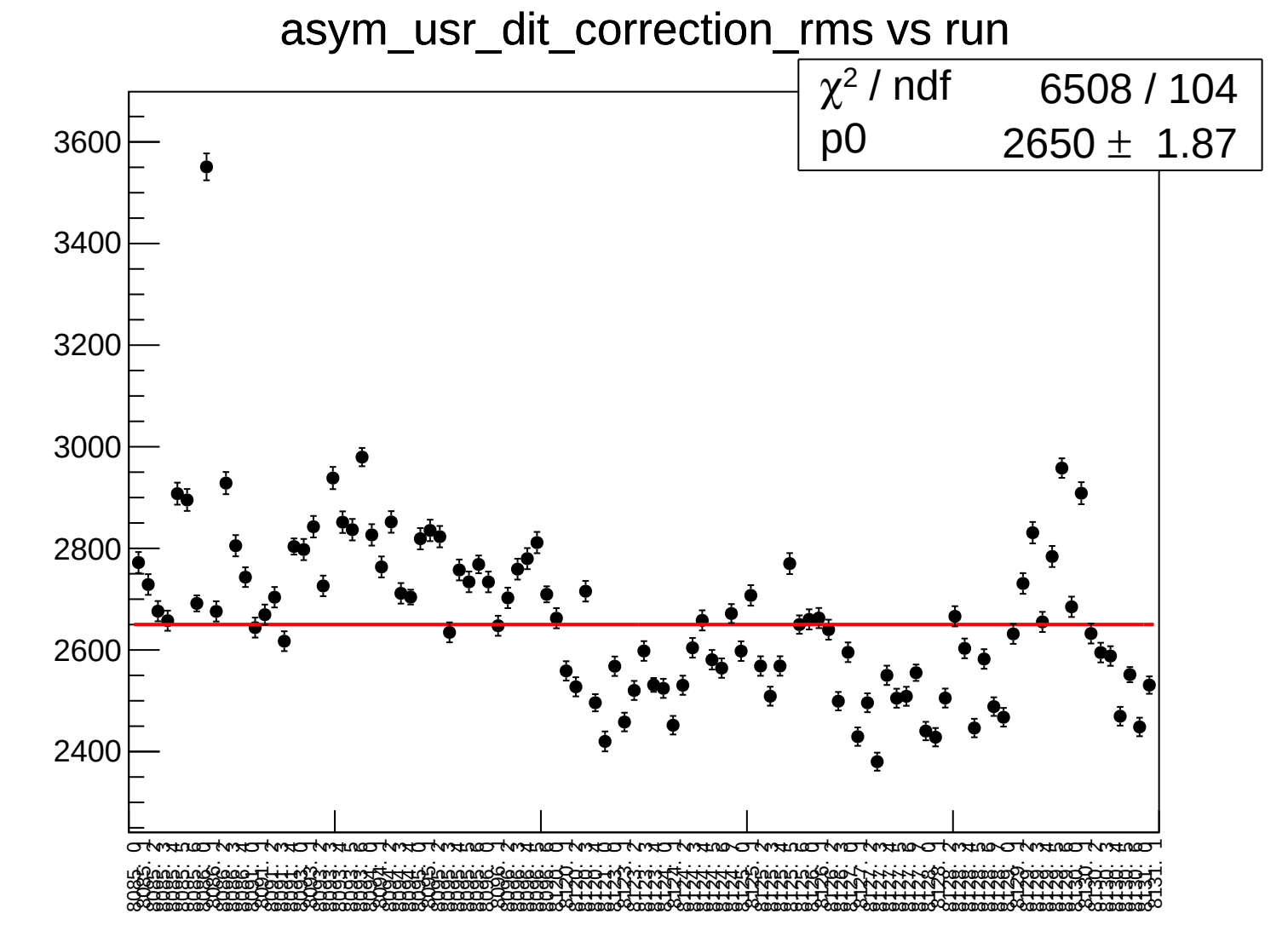

dit_asym_usr_mean vs run
χ² / ndf 96.52 / 104
p0 −4102 ± 1065
pull
Entries 105
Mean 1155
Std Dev 0

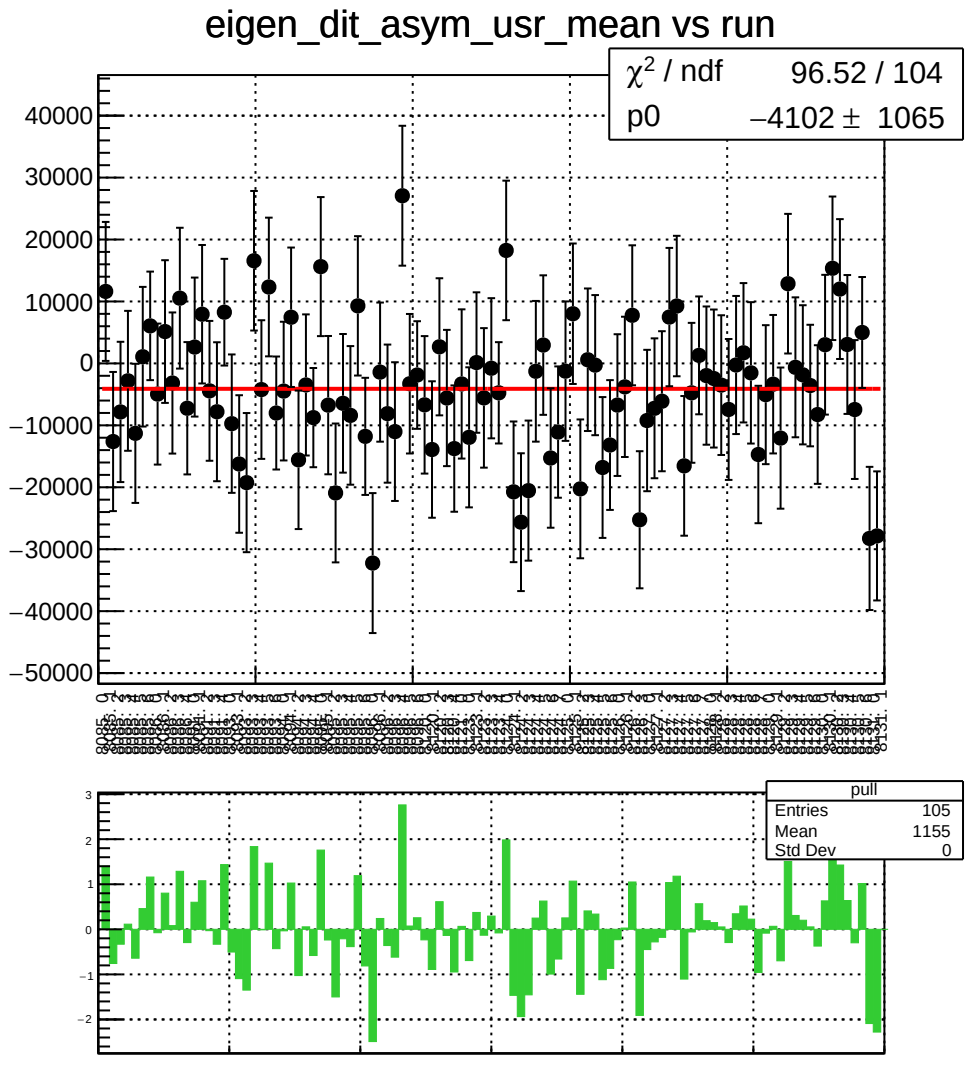

pull1D
Entries 105
Mean −0.001667
Std Dev 0.9587

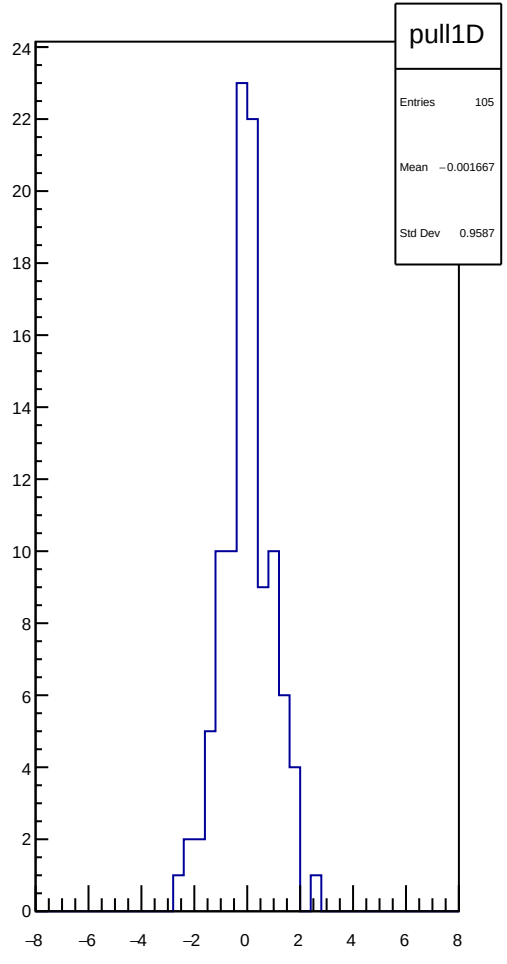

dit_asym_usr_rms vs run
χ² / ndf 178.2 / 104
p0 1069 ± 0.753
1110
1100
1090
1080
1070
1060
1050
1040
1030

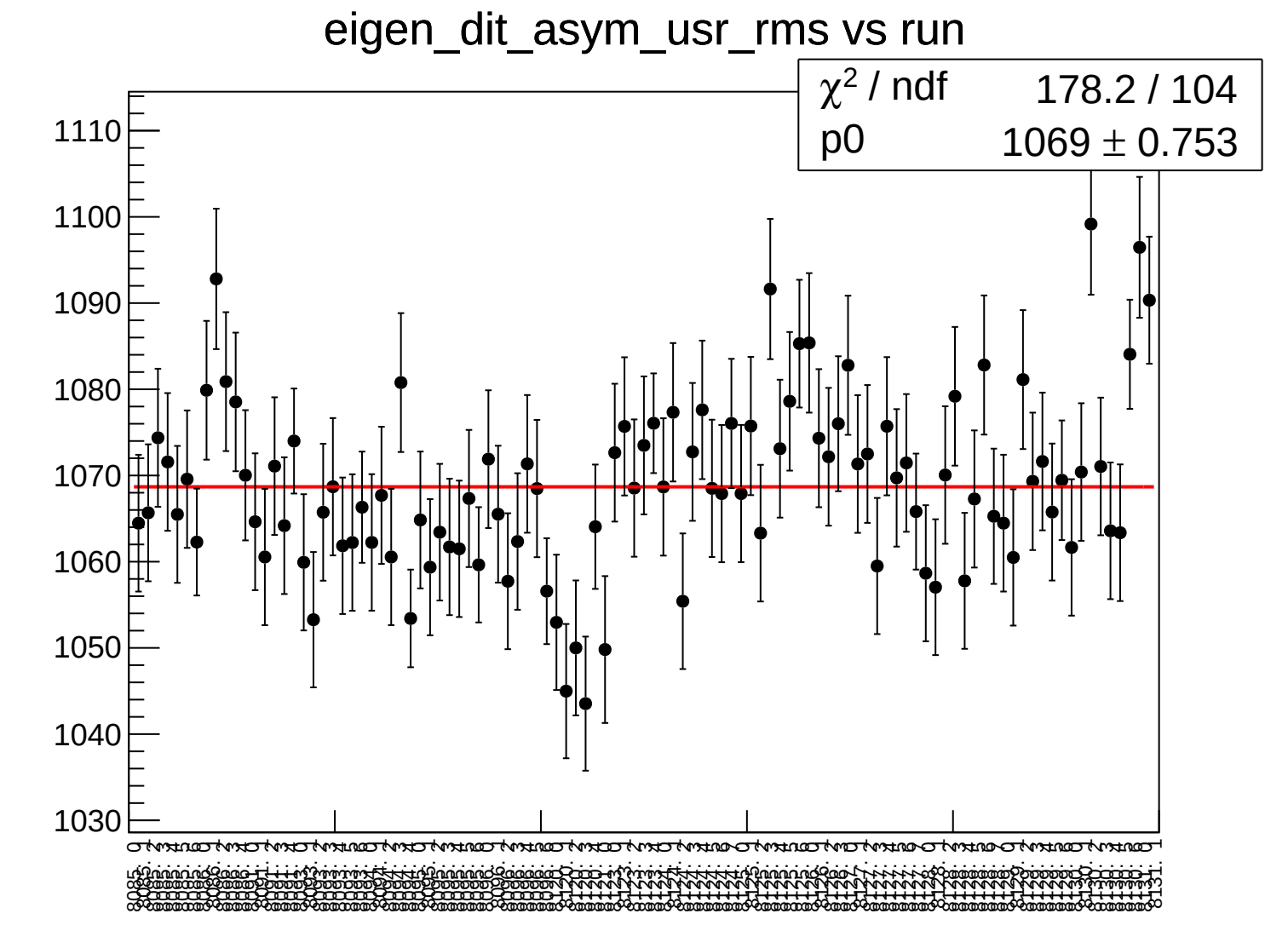

asym_usr_dit_correction_mean vs run
×10^3
χ² / ndf 79.29 / 104
p0 4162 ± 2645
100
50
0
−50
−100
pull
Entries 105
Mean −181.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

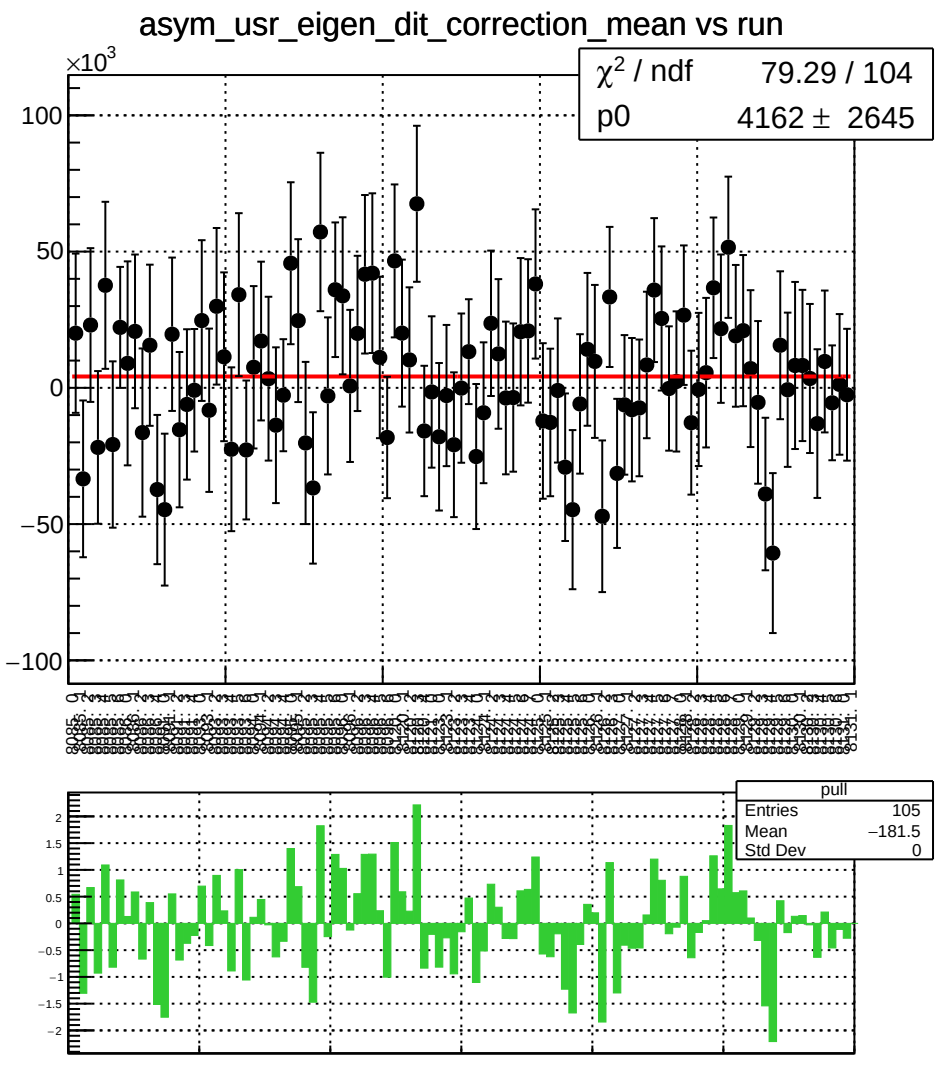

pull1D
Entries 105
Mean 0.003213
Std Dev 0.869
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

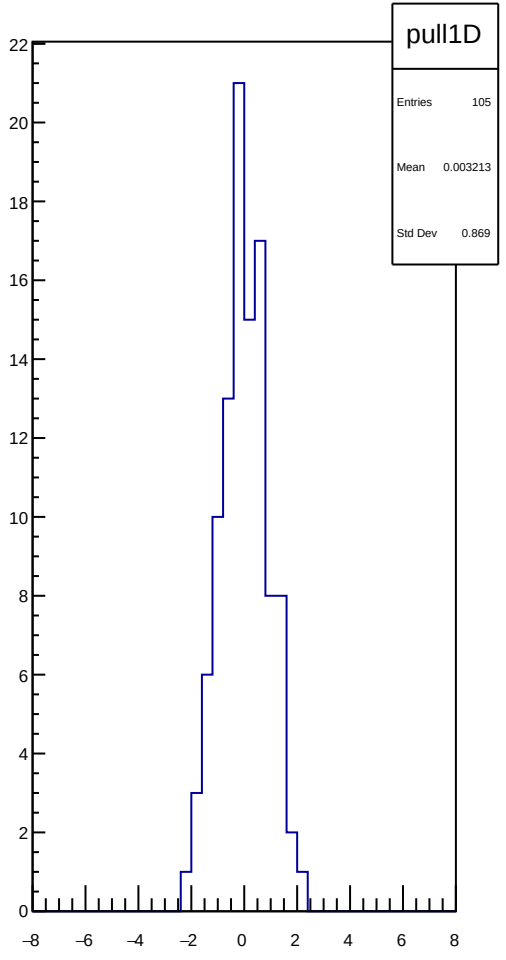

asym_usr_dit_correction_rms vs run
χ² / ndf 6508 / 104
p0 2650 ± 1.87
3600
3400
3200
3000
2800
2600
2400

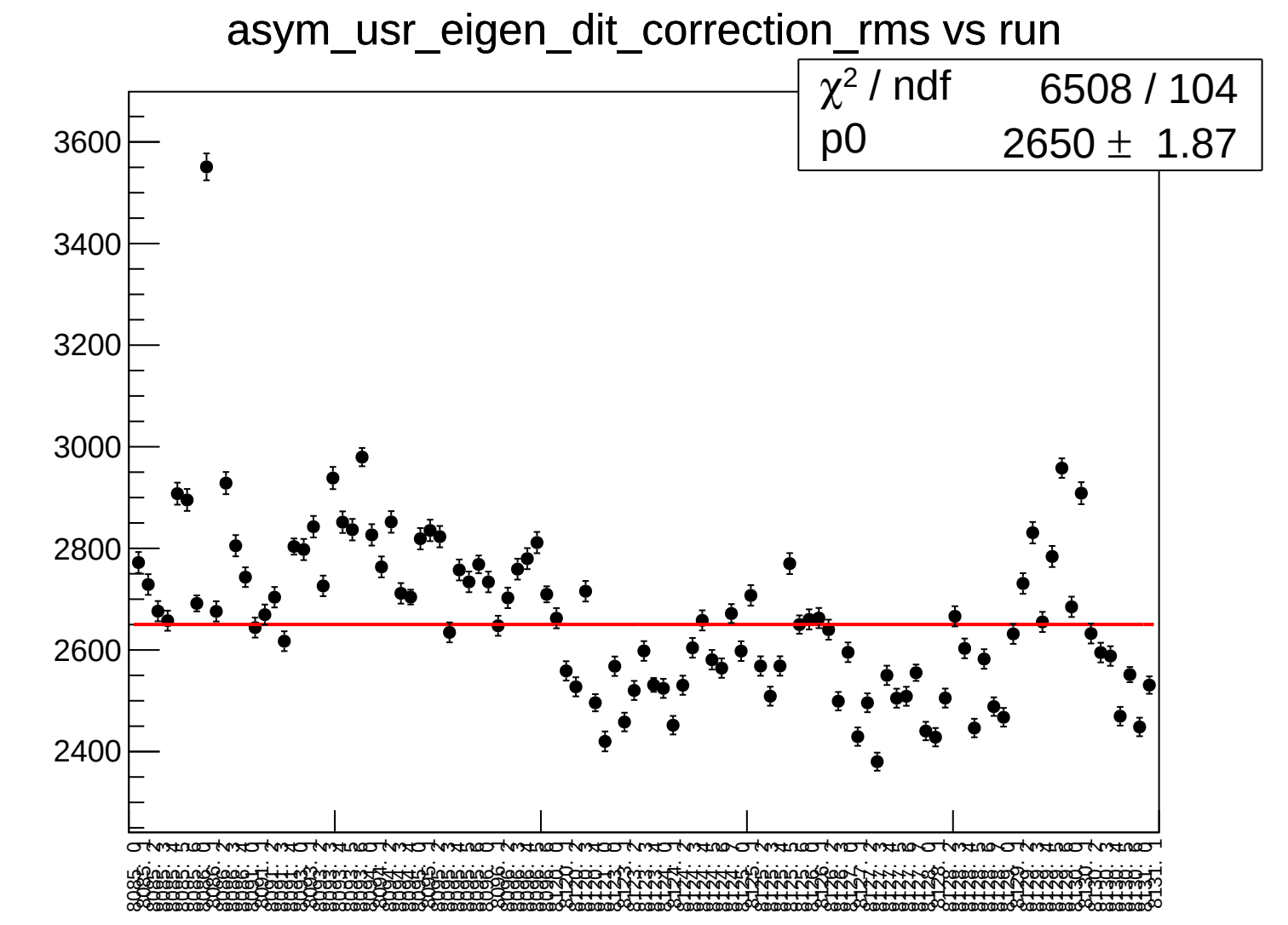

eigen_dit_asym_usr_mean vs run
χ² / ndf 96.52 / 104
p0 −4102 ± 1065
pull
Entries 105
Mean 1155
Std Dev 0

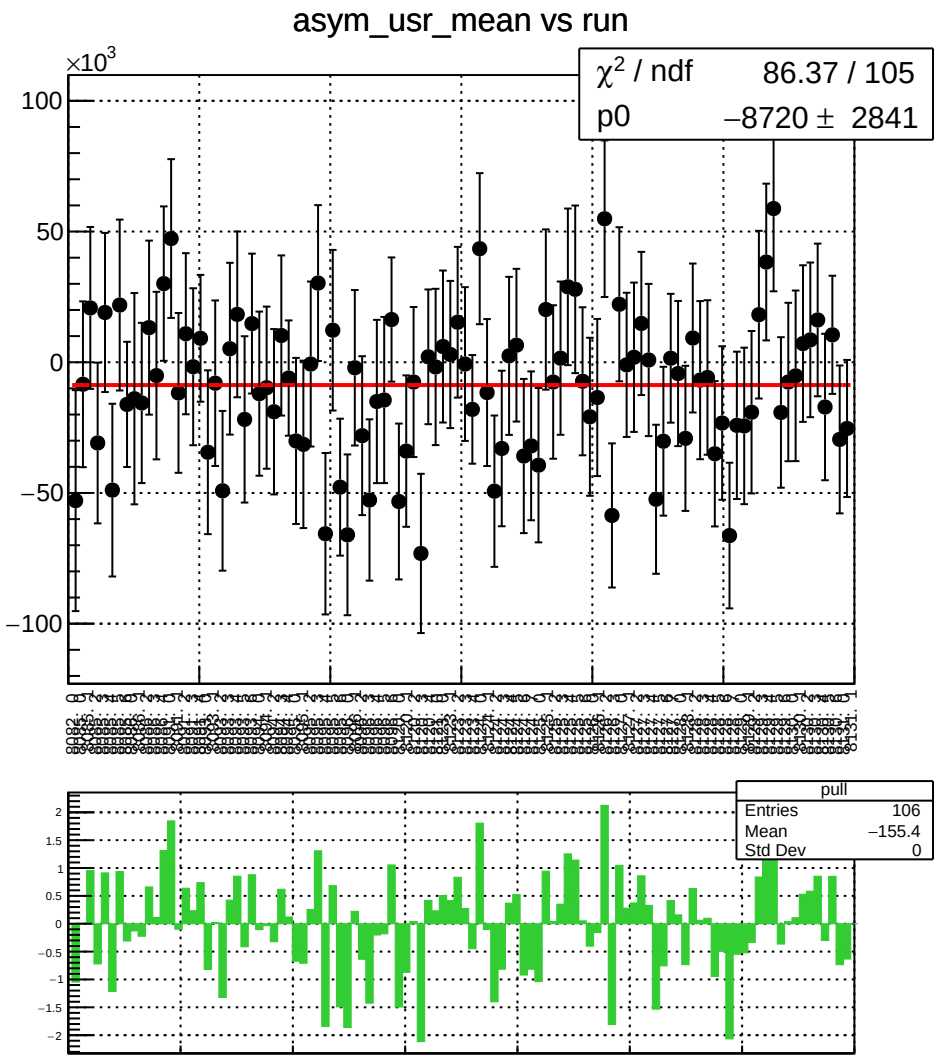

pull1D
Entries 105
Mean −0.001667
Std Dev 0.9587

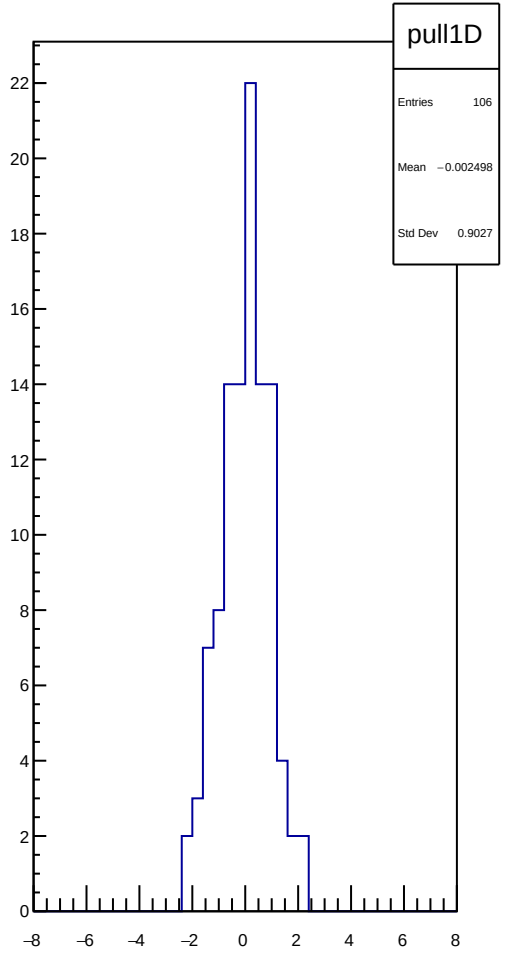

eigen_dit_asym_usr_rms vs run
χ² / ndf 178.2 / 104
p0 1069 ± 0.753
1110
1100
1090
1080
1070
1060
1050
1040
1030

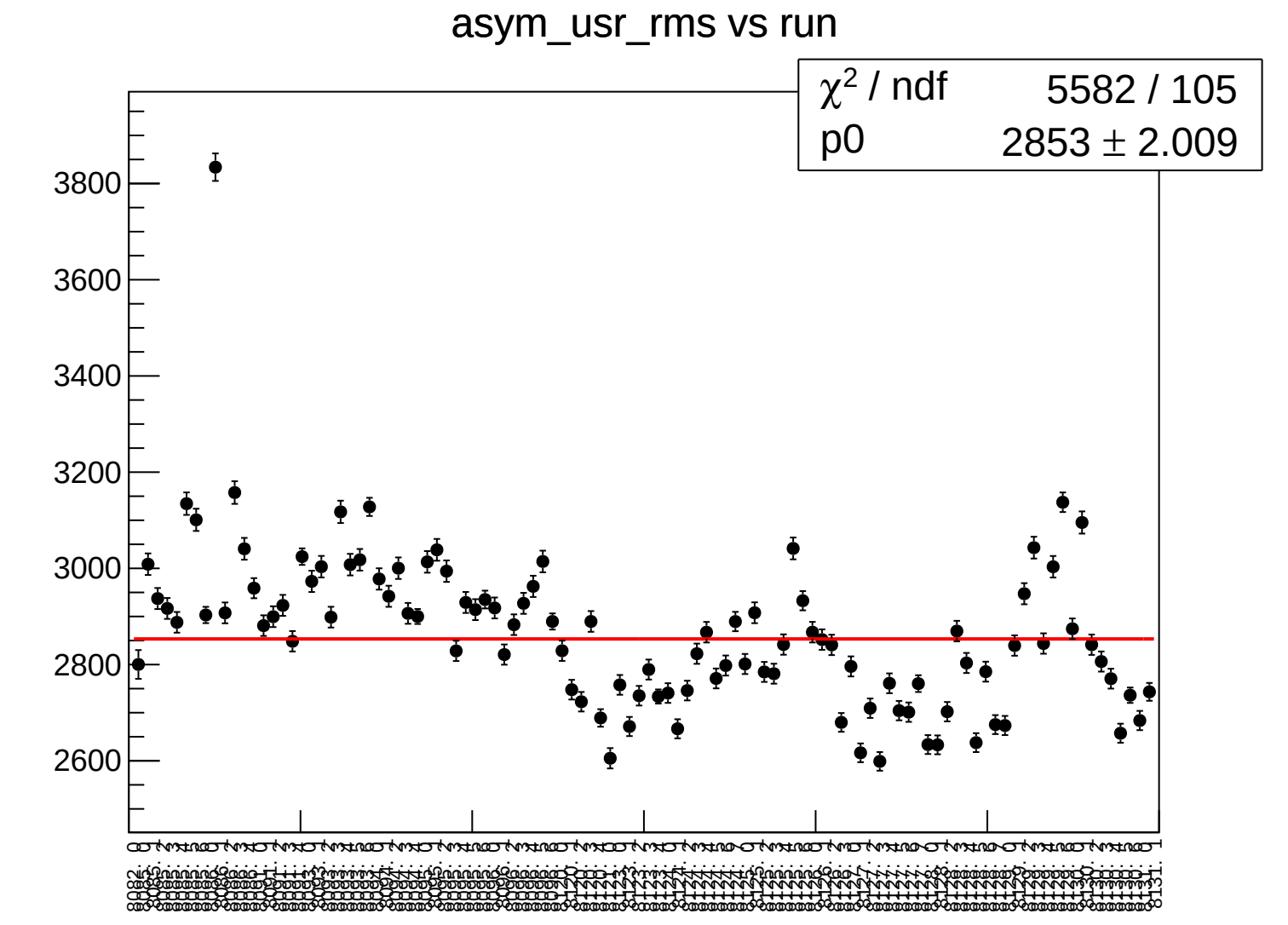

asym_usr_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 79.29 / 104
p0 4162 ± 2645
100
50
0
−50
−100
pull
Entries 105
Mean −181.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

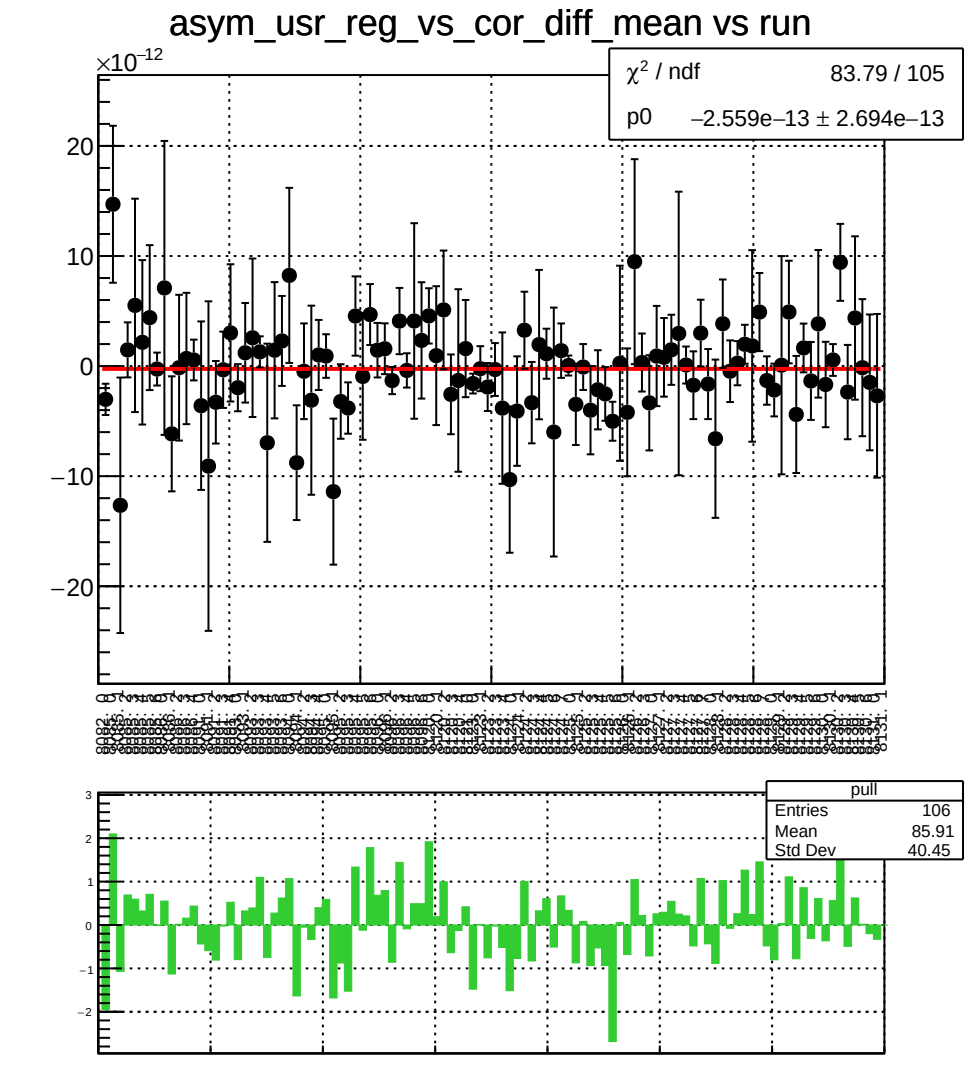

pull1D
Entries 105
Mean 0.003213
Std Dev 0.869
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

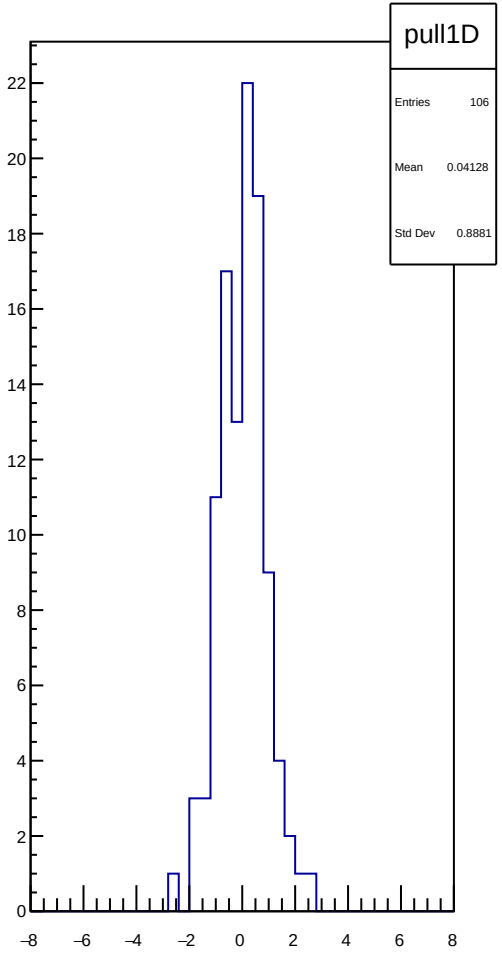

asym_usr_eigen_dit_correction_rms vs run
χ² / ndf 6508 / 104
p0 2650 ± 1.87
3600
3400
3200
3000
2800
2600
2400

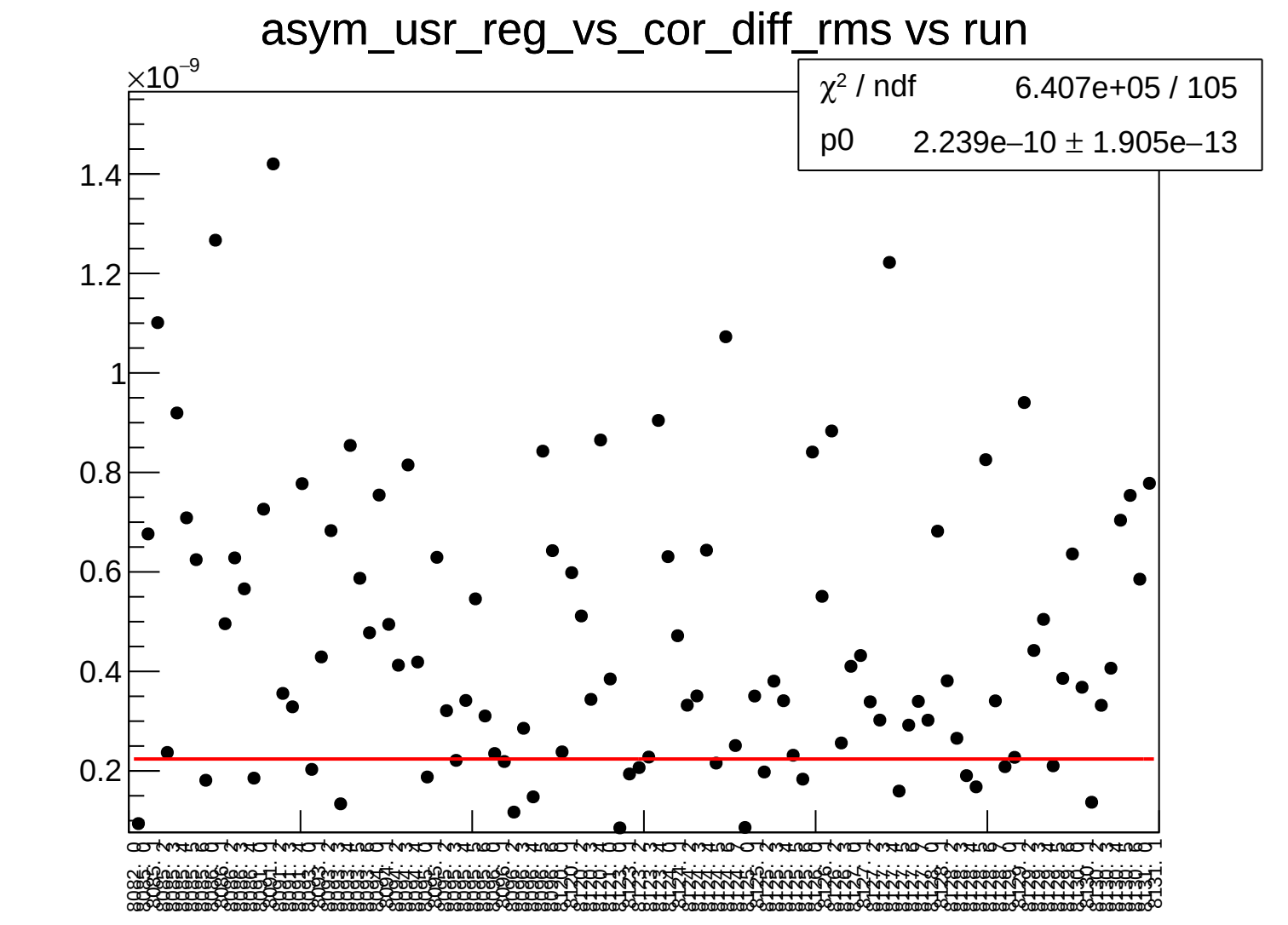

asym_usr_mean vs run
×10^3
χ² / ndf 86.37 / 105
p0 −8720 ± 2841
100
50
0
−50
−100
pull
Entries 106
Mean −155.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

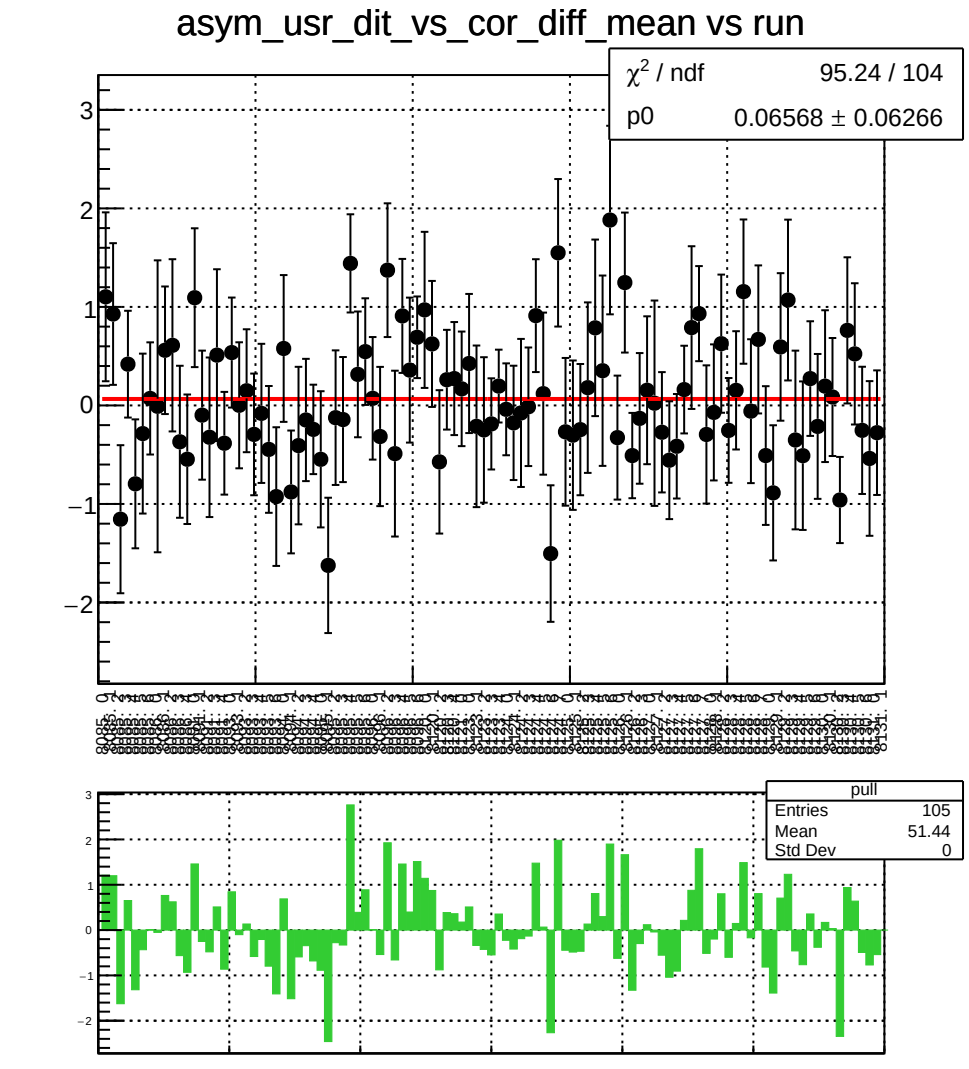

pull1D
Entries 106
Mean −0.002498
Std Dev 0.9027
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

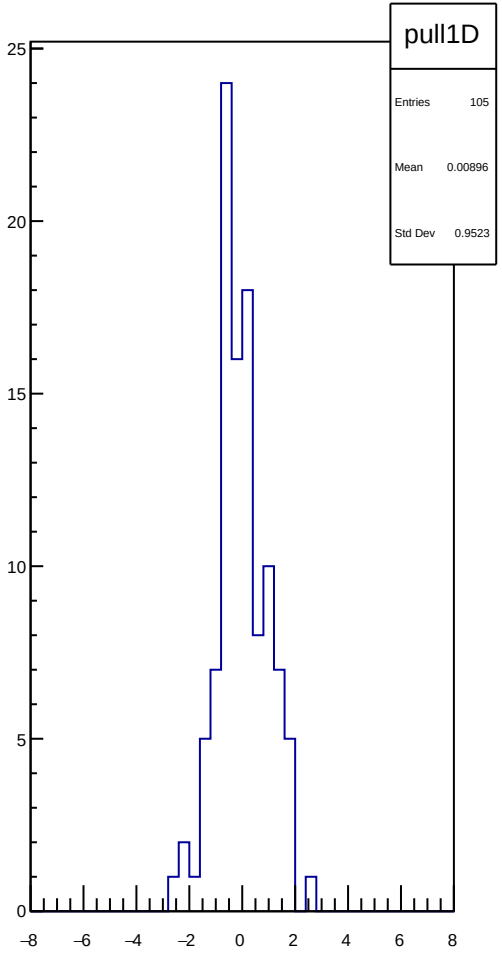

asym_usr_rms vs run
χ² / ndf 5582 / 105
p0 2853 ± 2.009
3800
3600
3400
3200
3000
2800
2600

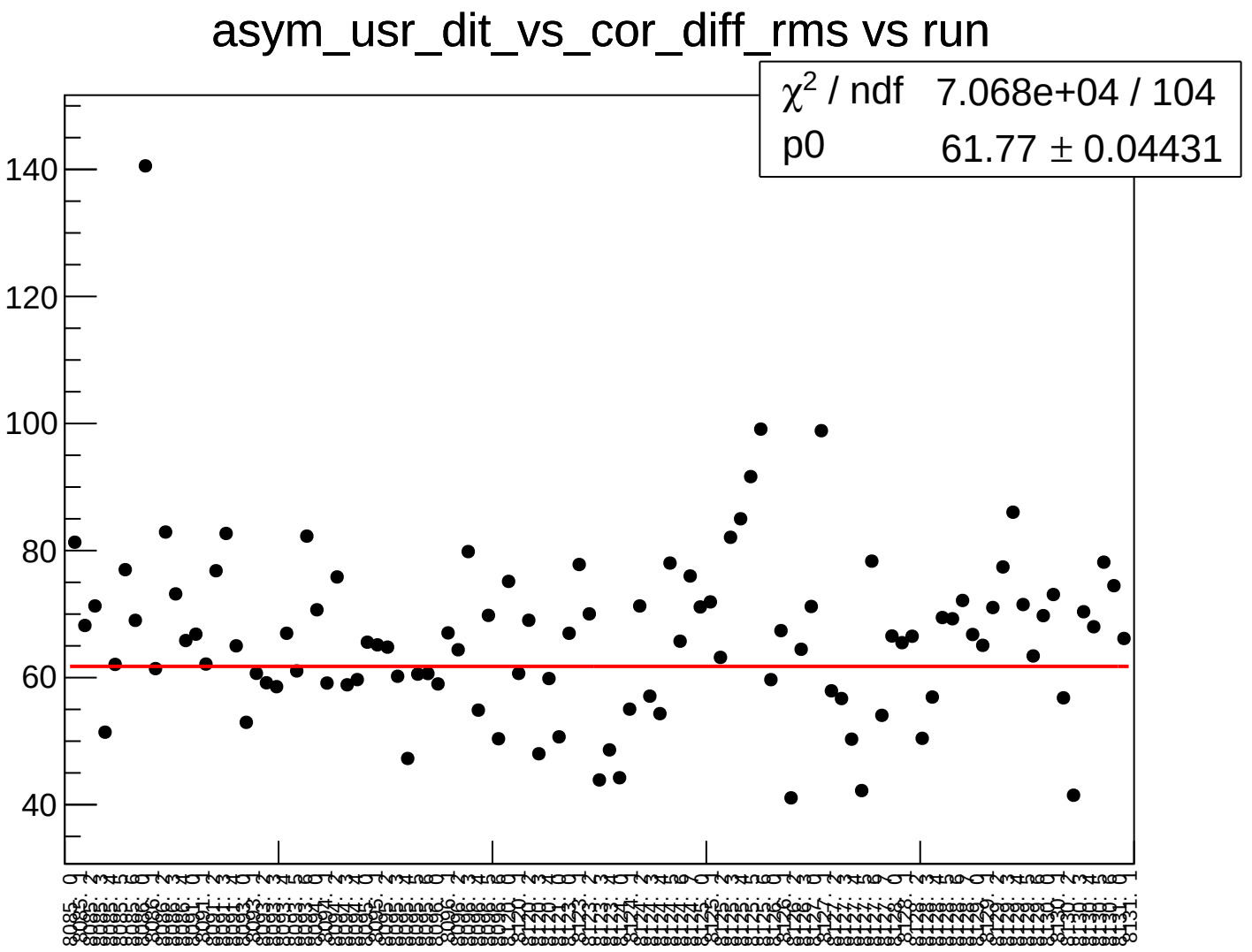

asym_usr_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.79 / 105
p0 −2.559e−13 ± 2.694e−13
pull
Entries 106
Mean 85.91
Std Dev 40.45

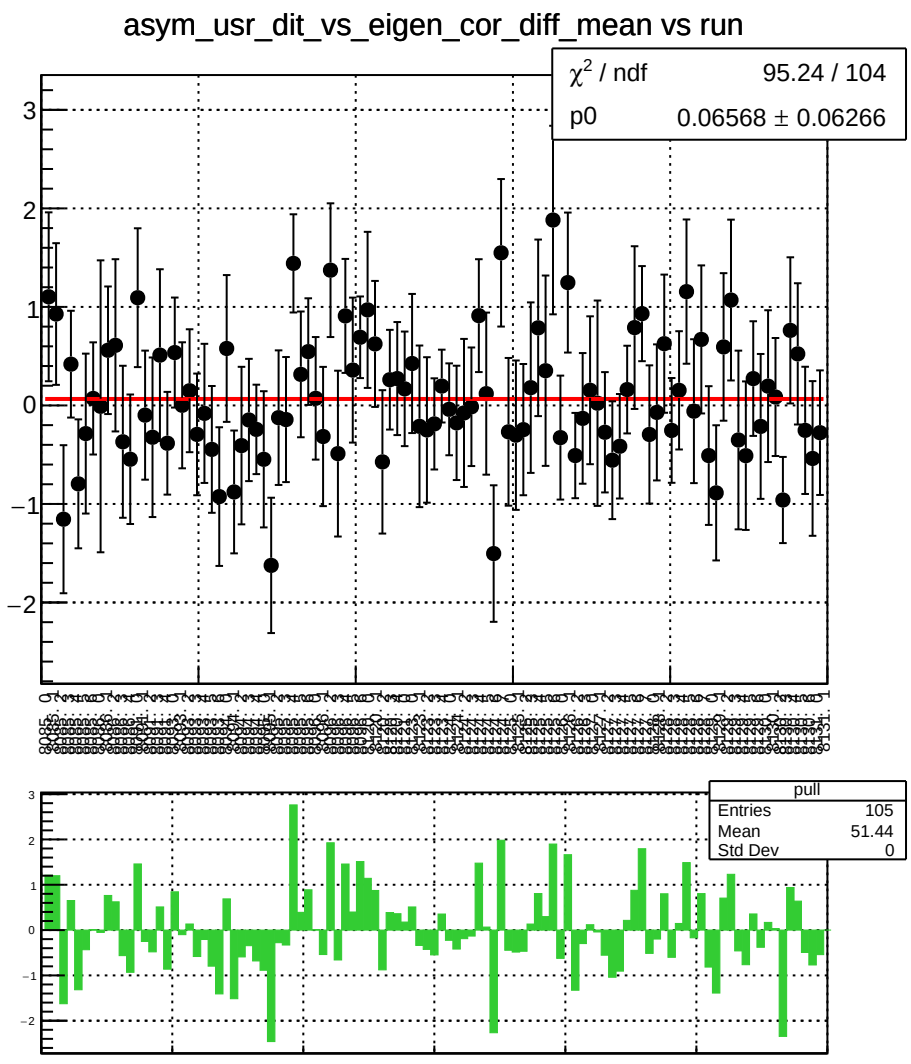

pull1D
Entries 106
Mean 0.04128
Std Dev 0.8881

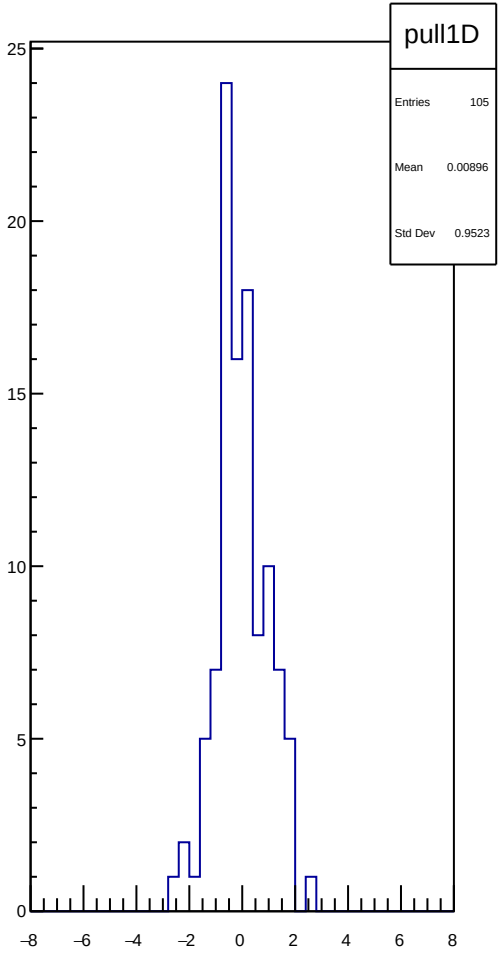

asym_usr_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.407e+05 / 105
p0 2.239e−10 ± 1.905e−13
1.4
1.2
1
0.8
0.6
0.4
0.2

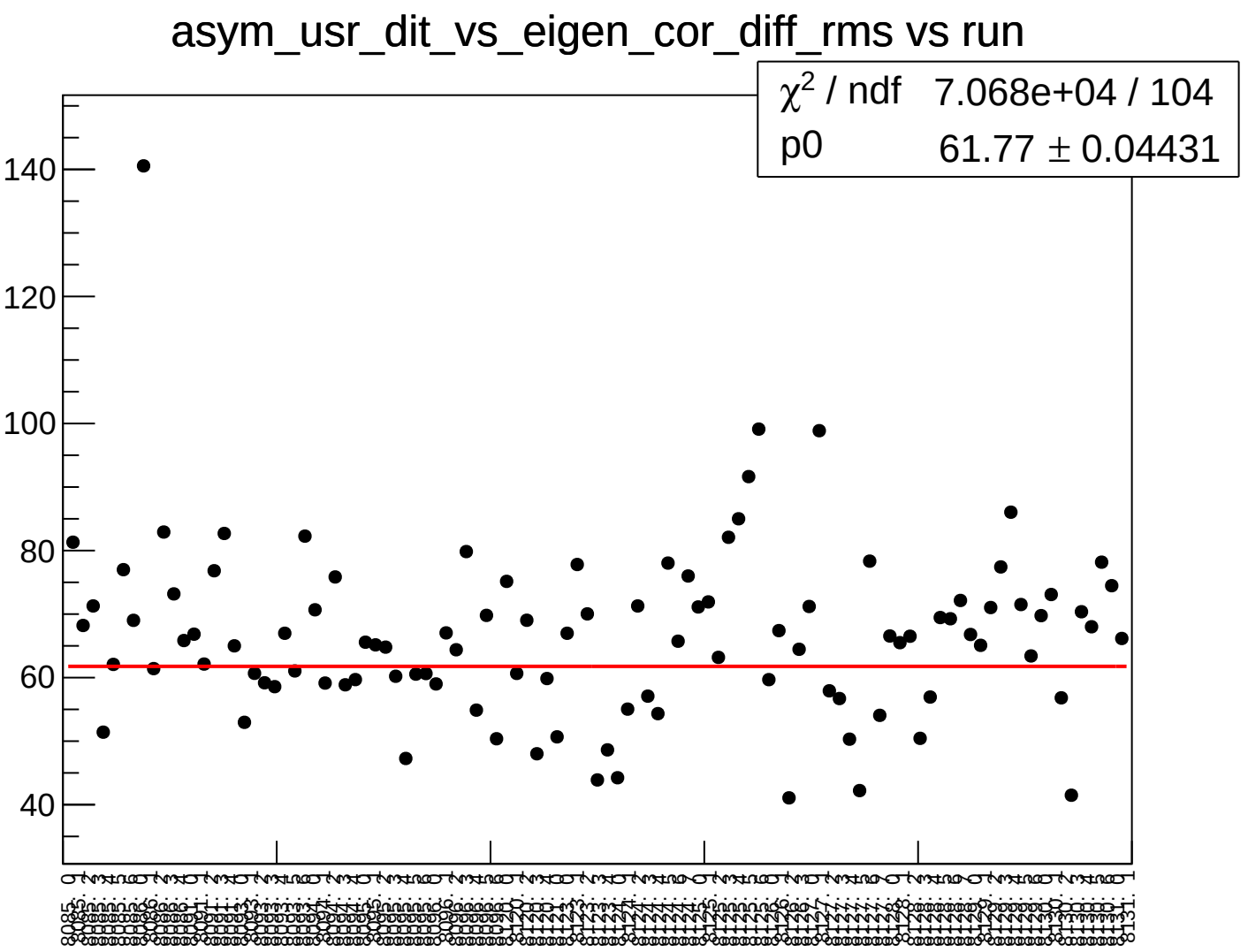

asym_usr_dit_vs_cor_diff_mean vs run
χ² / ndf 95.24 / 104
p0 0.06568 ± 0.06266
pull
Entries 105
Mean 51.44
Std Dev 0

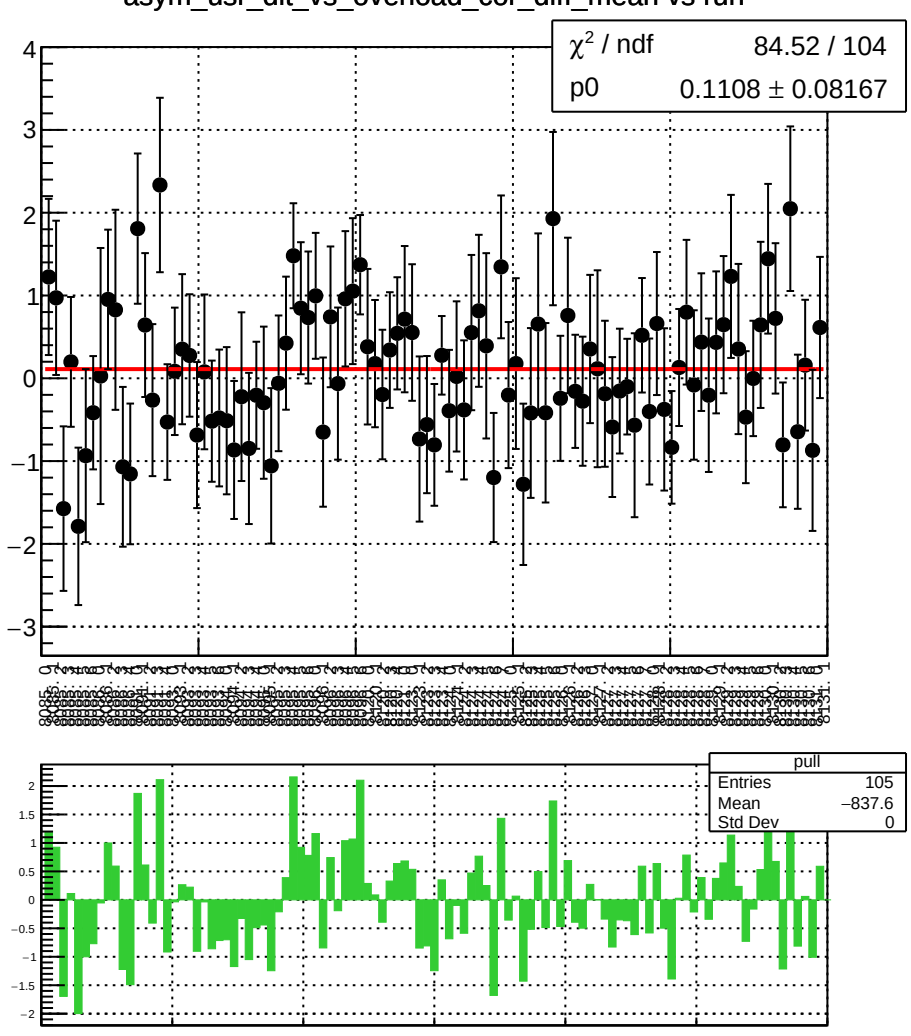

pull1D
Entries 105
Mean 0.00896
Std Dev 0.9523

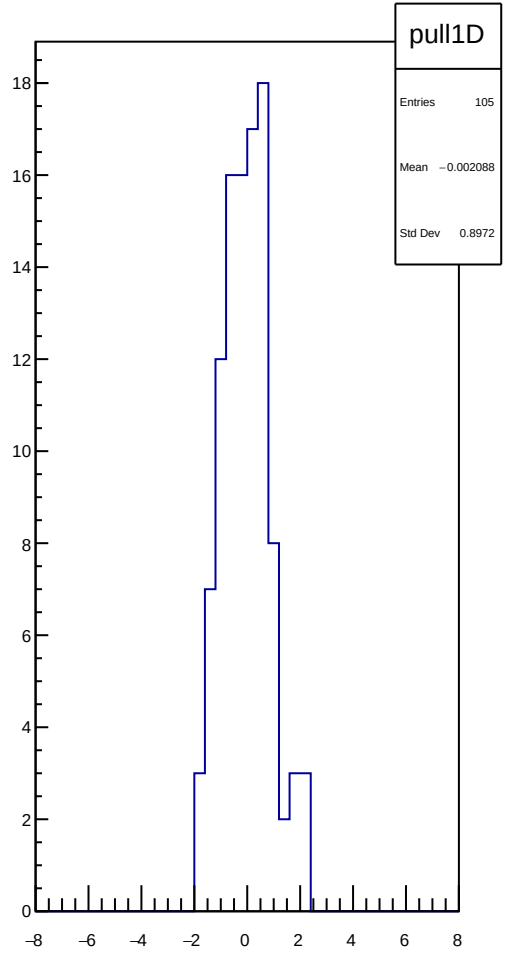

asym_usr_dit_vs_cor_diff_rms vs run
χ² / ndf 7.068e+04 / 104
p0 61.77 ± 0.04431
140
120
100
80
60
40

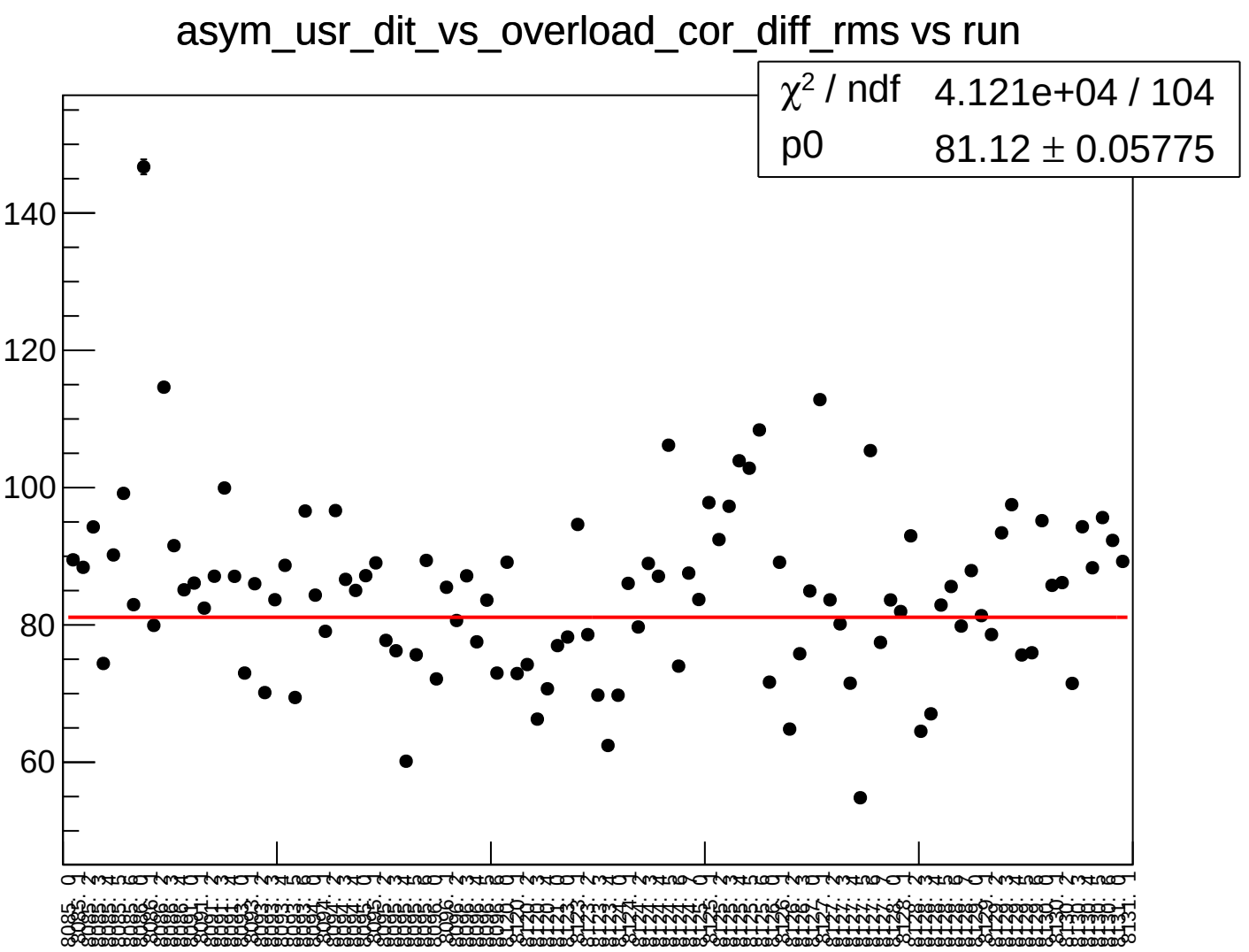

asym_usr_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.24 / 104
p0 0.06568 ± 0.06266
pull
Entries 105
Mean 51.44
Std Dev 0

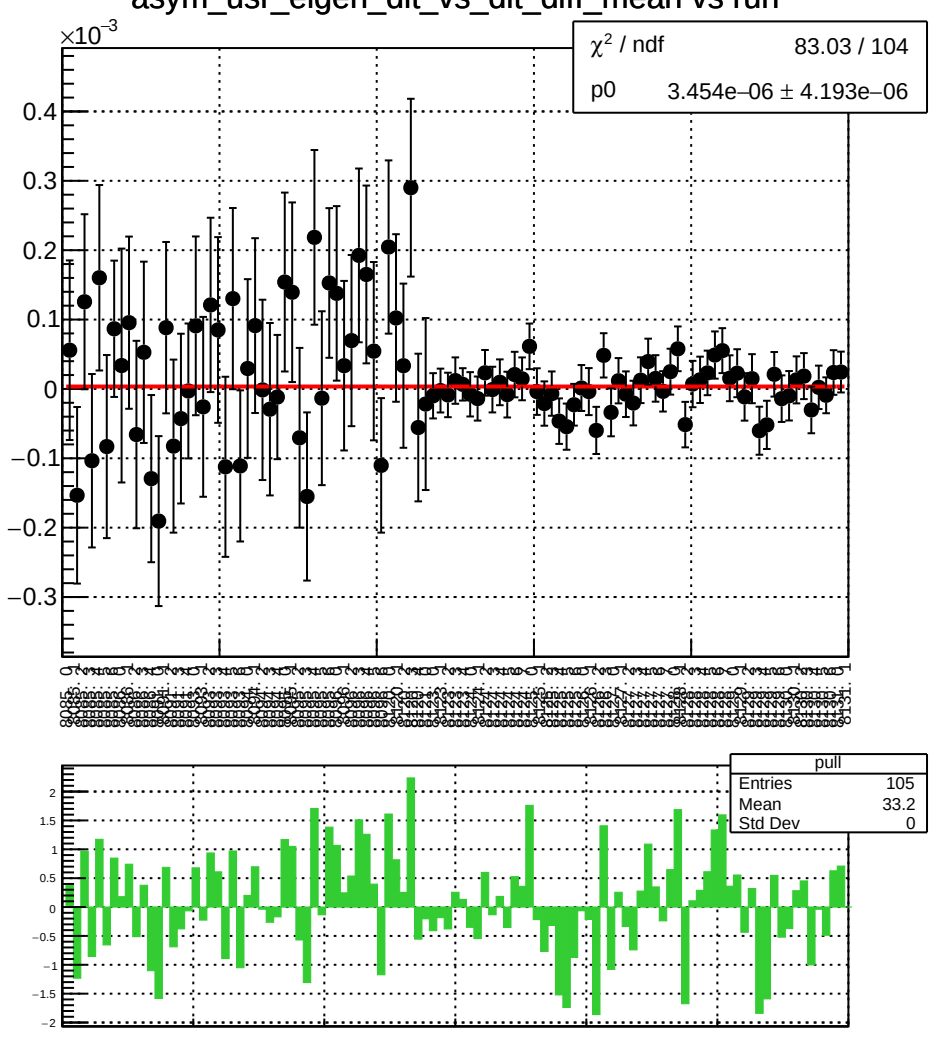

pull1D
Entries 105
Mean 0.00896
Std Dev 0.9523

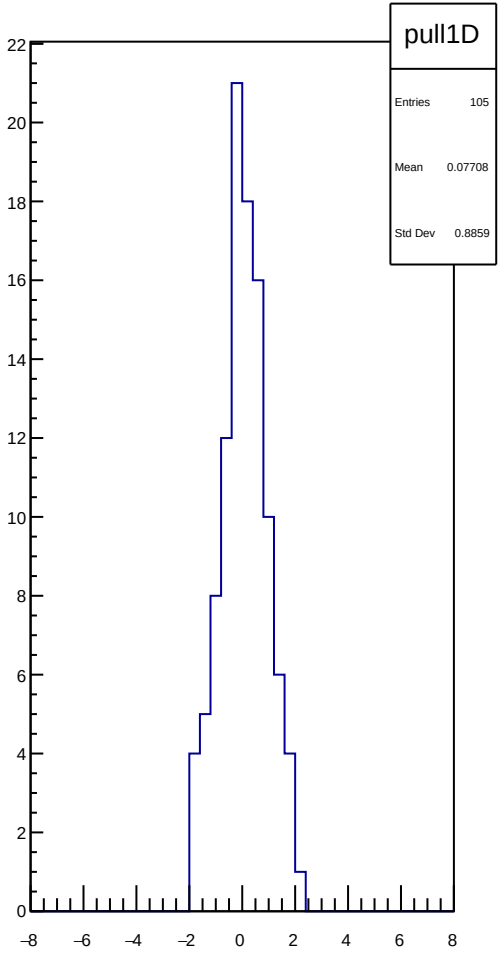

asym_usr_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.068e+04 / 104
p0 61.77 ± 0.04431
140
120
100
80
60
40

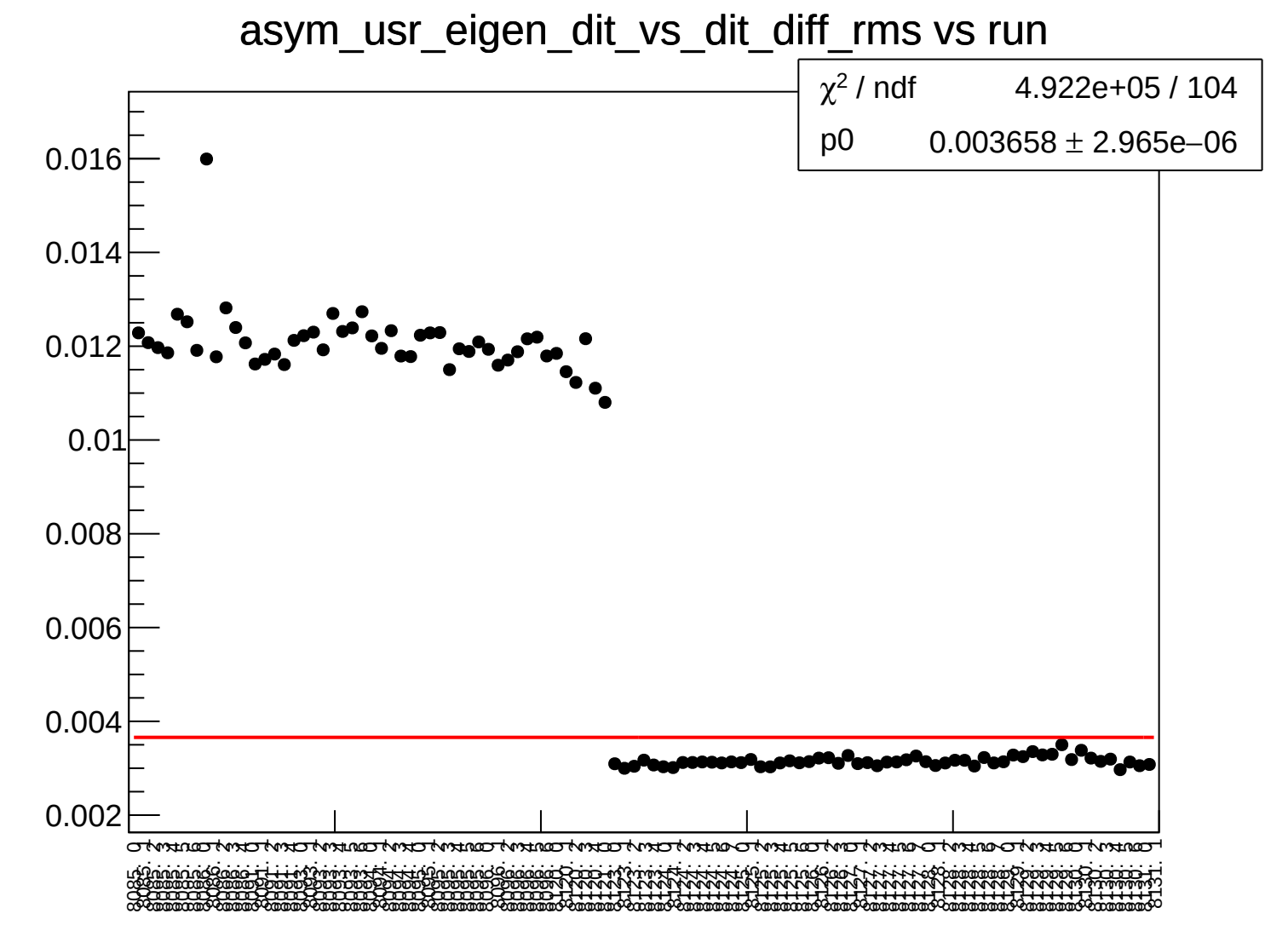

asym_usr_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 84.52 / 104
p0 0.1108 ± 0.08167
pull
Entries 105
Mean −837.6
Std Dev 0

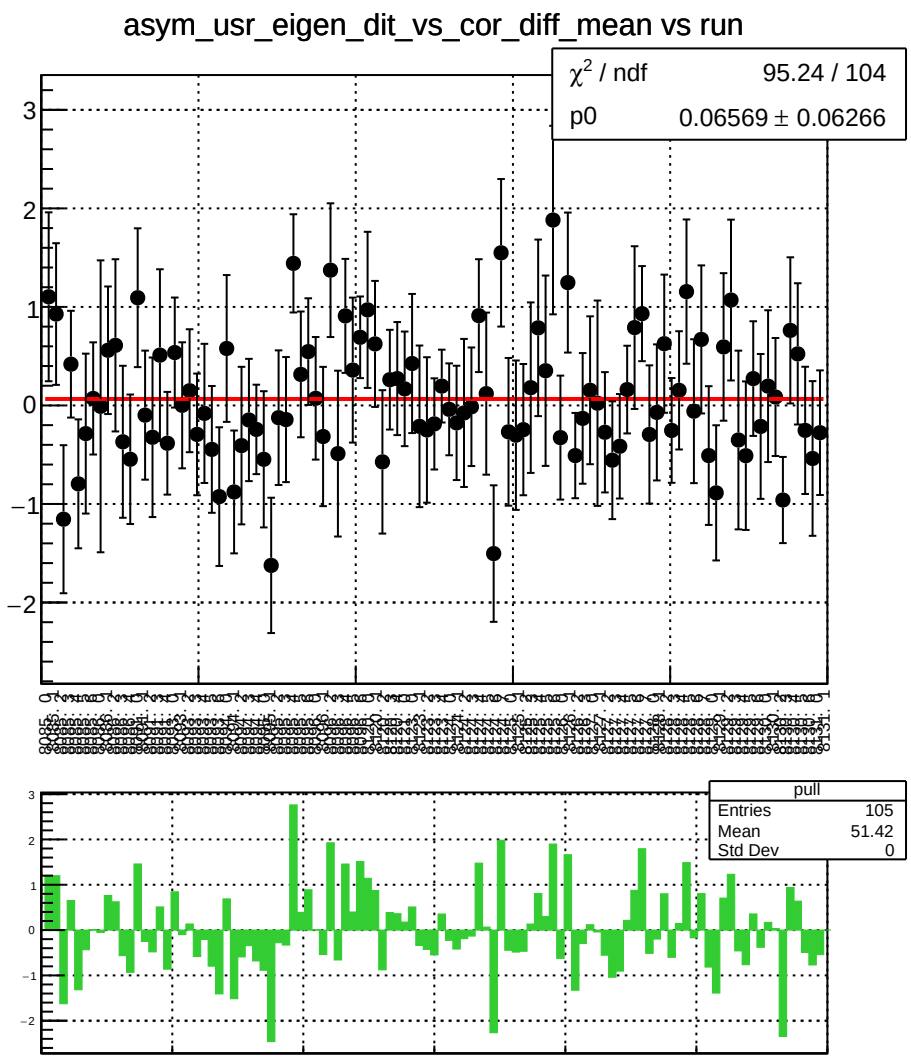

pull1D
Entries 105
Mean −0.002088
Std Dev 0.8972

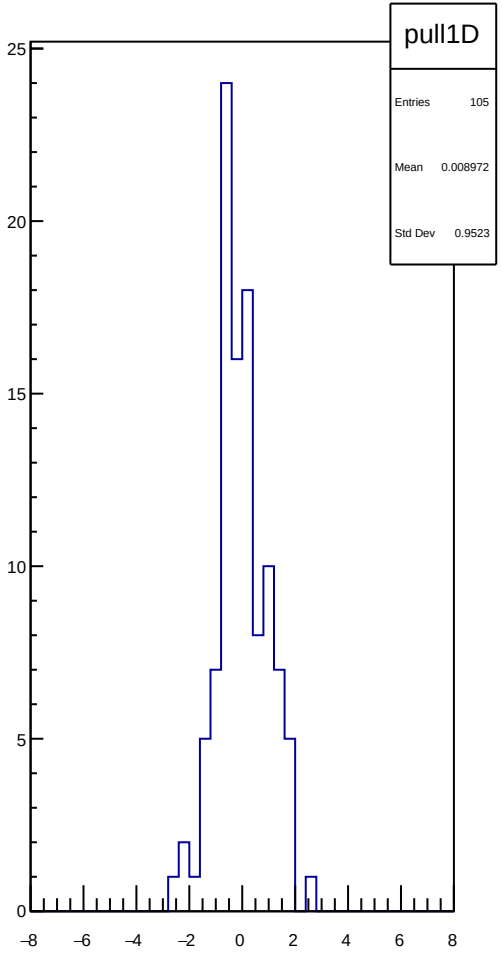

asym_usr_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 4.121e+04 / 104
p0 81.12 ± 0.05775
140
120
100
80
60

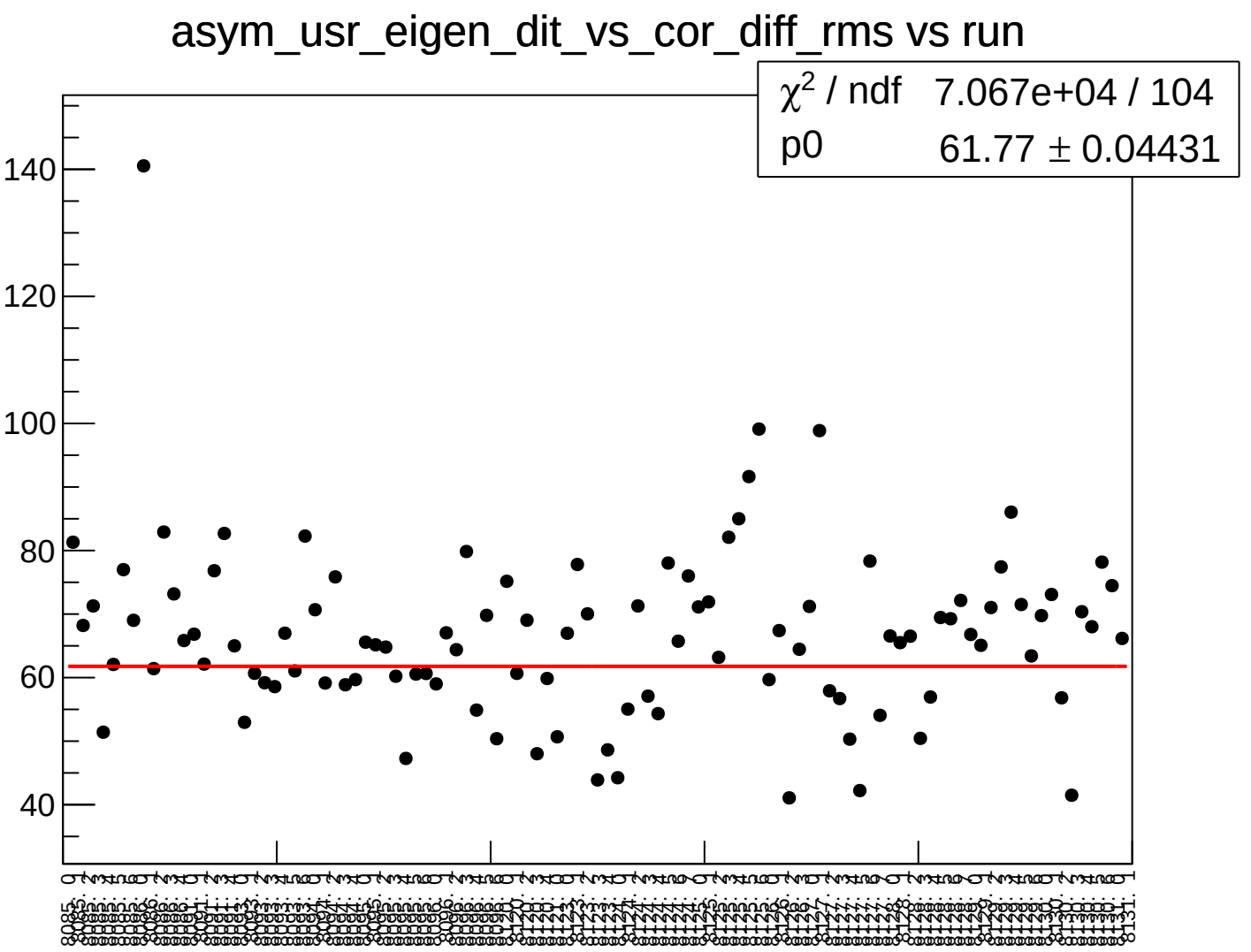

asym_usr_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 83.03 / 104
p0 3.454e−06 ± 4.193e−06
pull
Entries 105
Mean 33.2
Std Dev 0

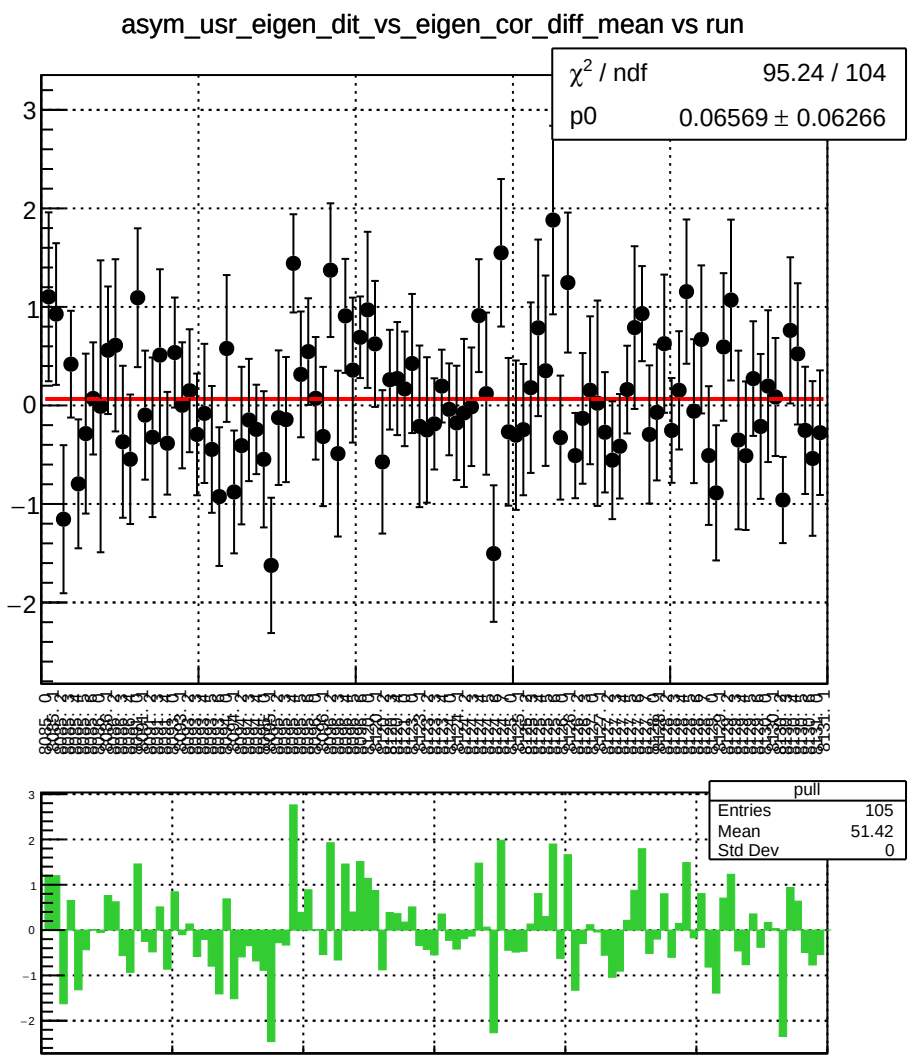

pull1D
Entries 105
Mean 0.07708
Std Dev 0.8859

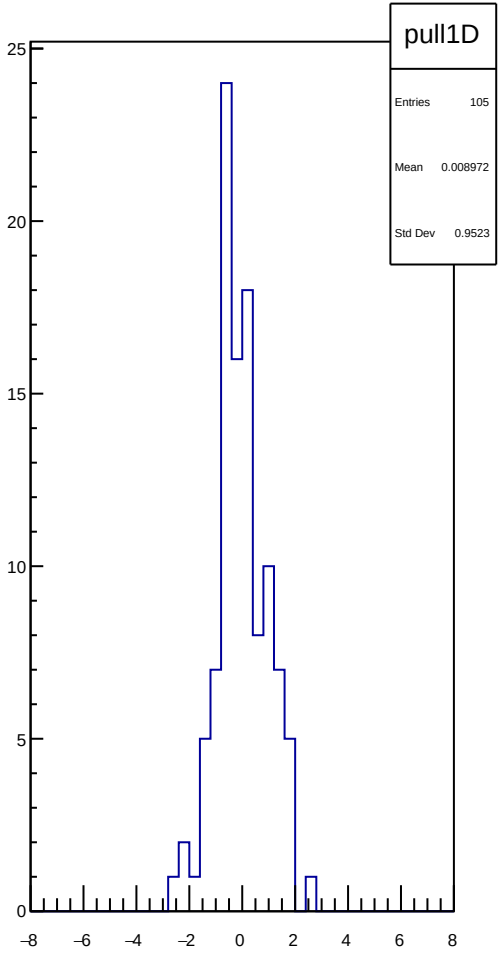

asym_usr_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.922e+05 / 104
p0 0.003658 ± 2.965e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

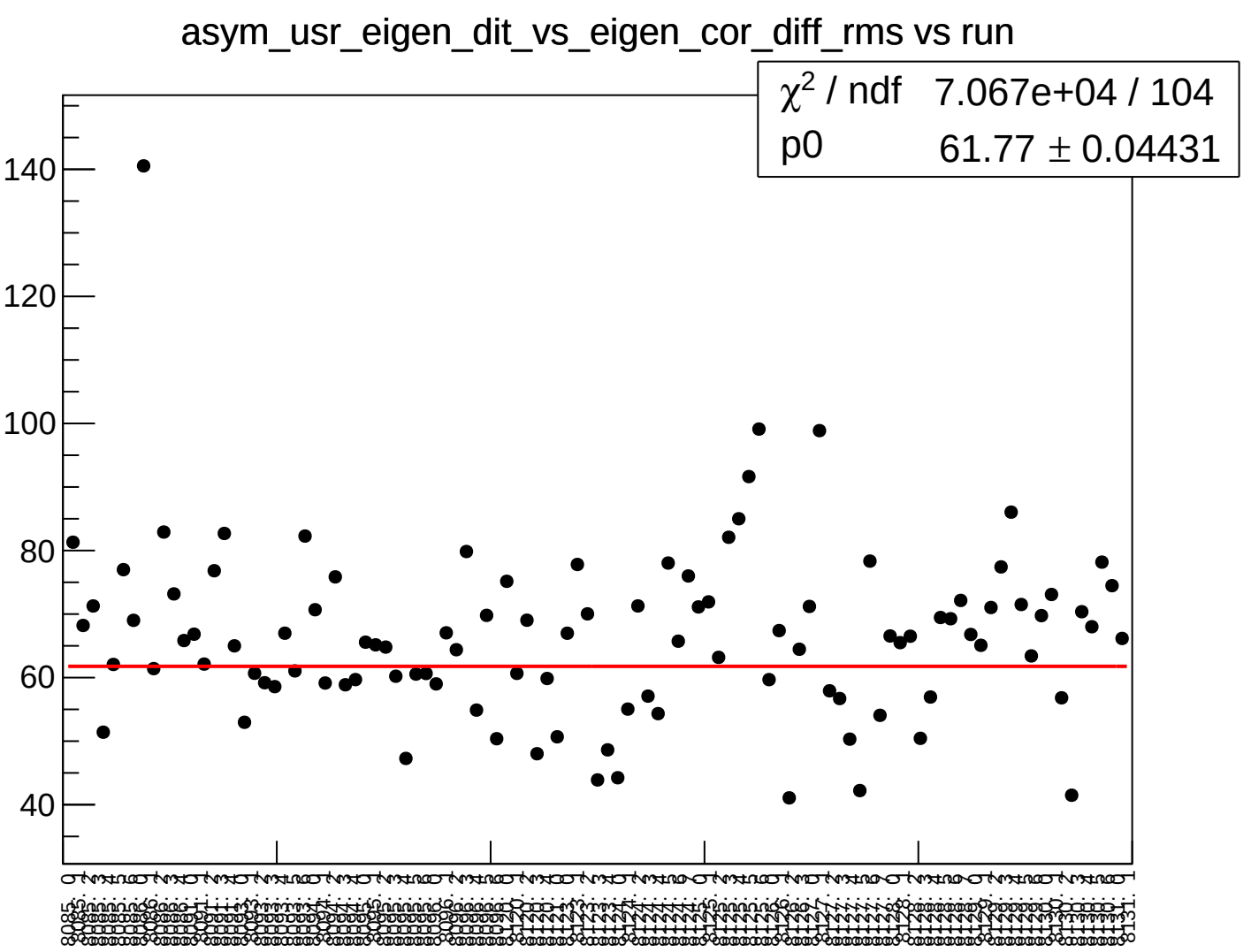

asym_usr_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.24 / 104
p0 0.06569 ± 0.06266
pull
Entries 105
Mean 51.42
Std Dev 0

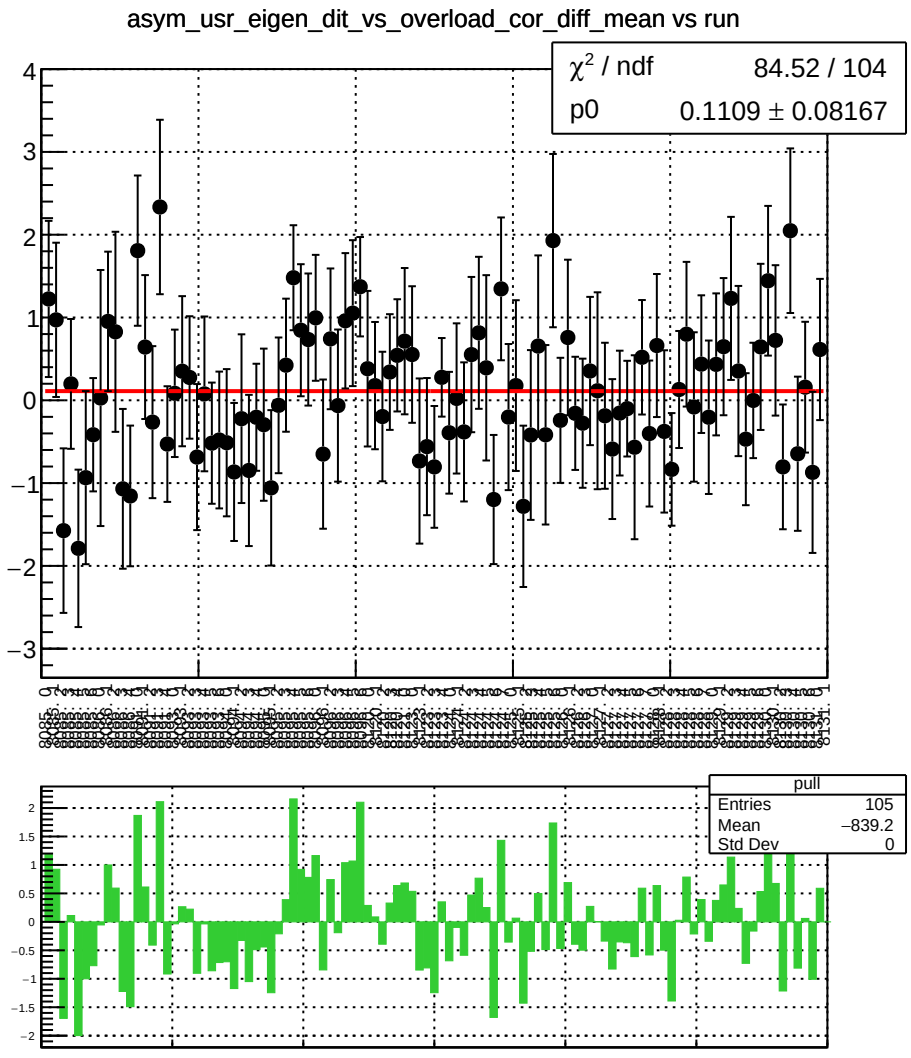

pull1D
Entries 105
Mean 0.008972
Std Dev 0.9523

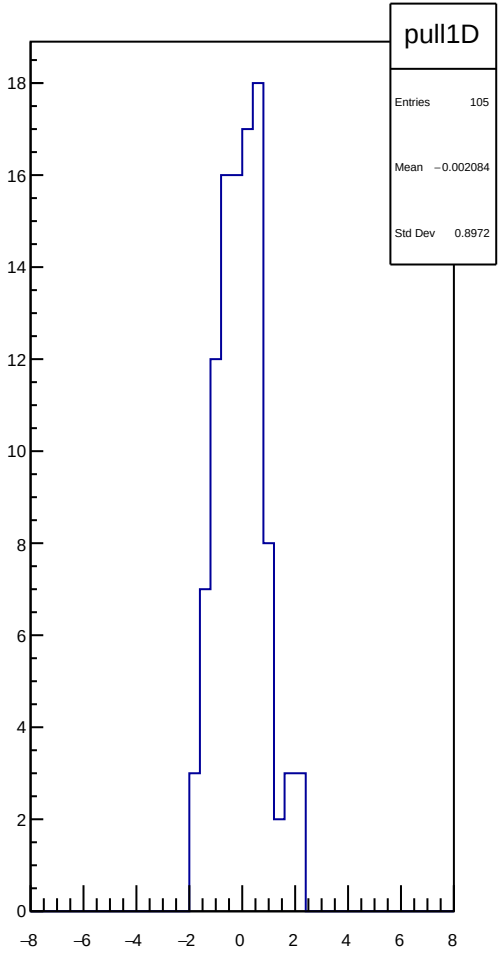

asym_usr_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.067e+04 / 104
p0 61.77 ± 0.04431
140
120
100
80
60
40

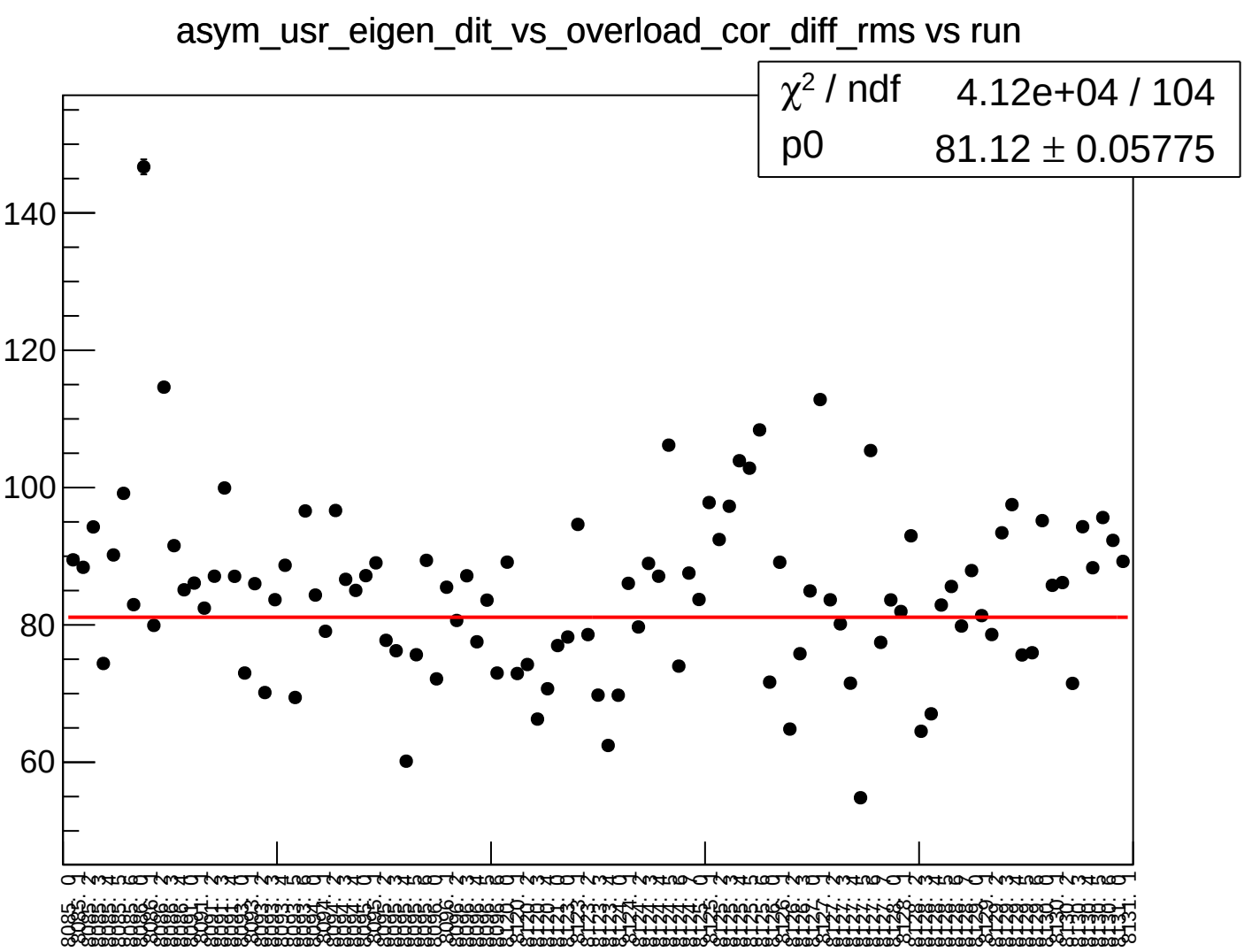

asym_usr_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.24 / 104
p0 0.06569 ± 0.06266
pull
Entries 105
Mean 51.42
Std Dev 0

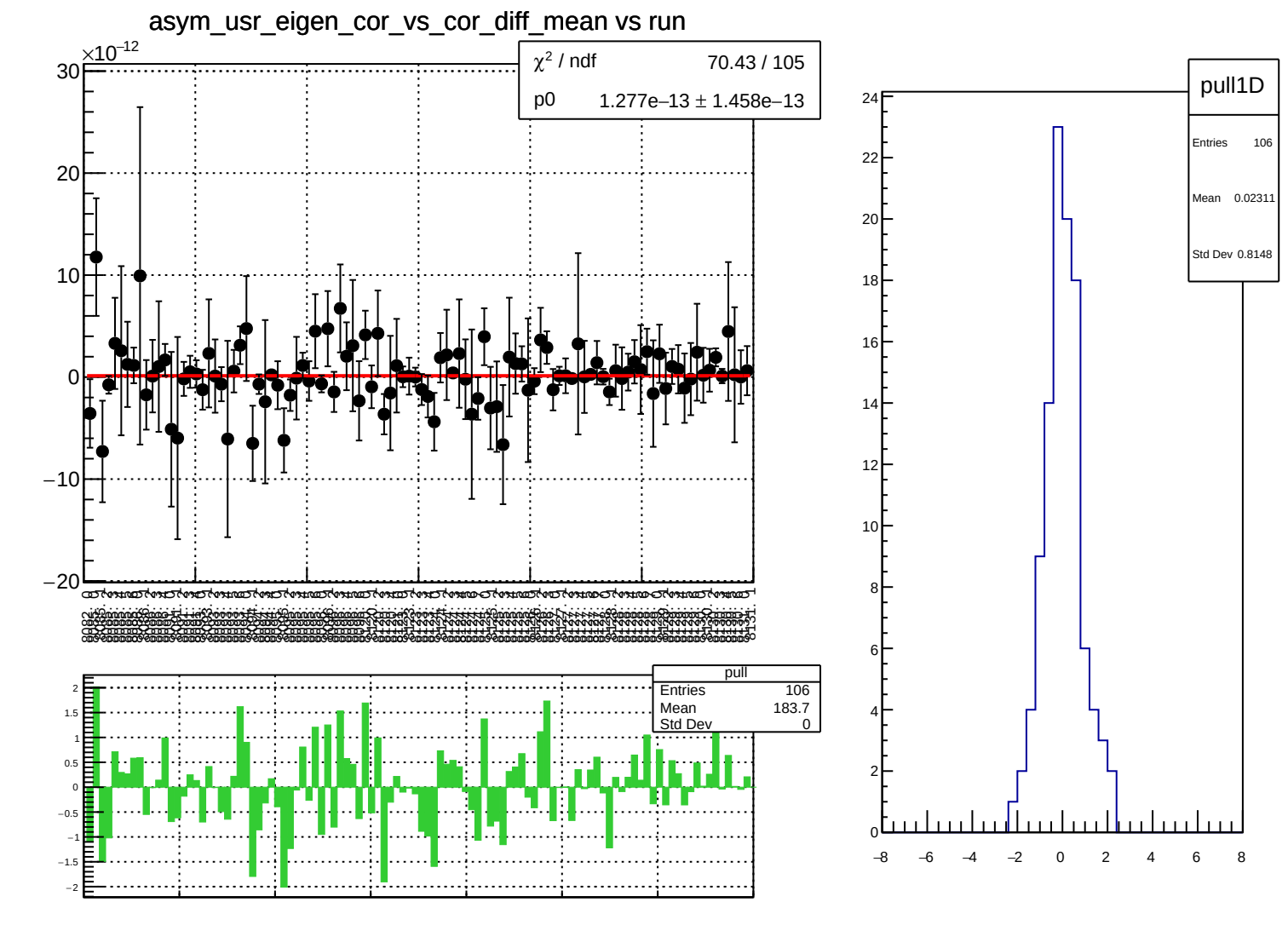

pull1D
Entries 105
Mean 0.008972
Std Dev 0.9523

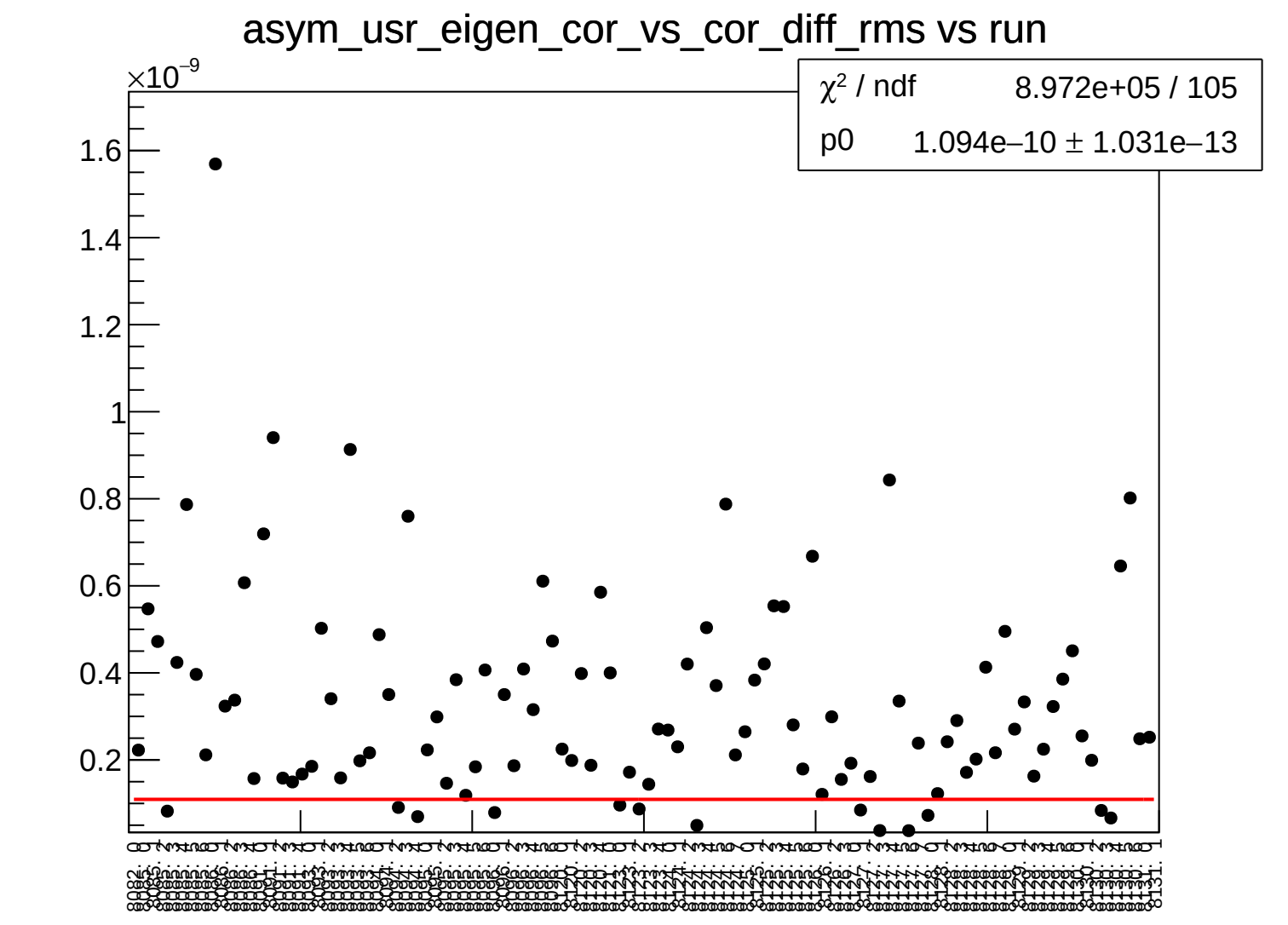

asym_usr_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.067e+04 / 104
p0 61.77 ± 0.04431
140
120
100
80
60
40

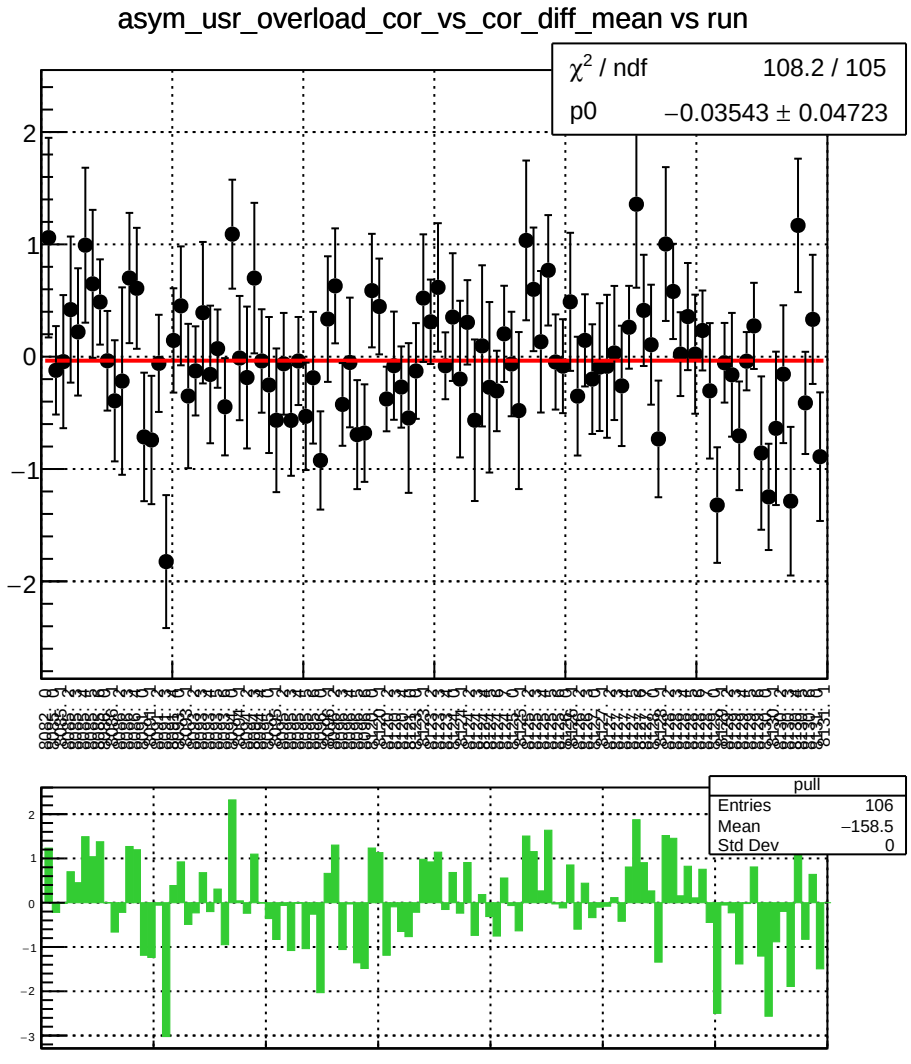

asym_usr_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 84.52 / 104
p0 0.1109 ± 0.08167
pull
Entries 105
Mean −839.2
Std Dev 0

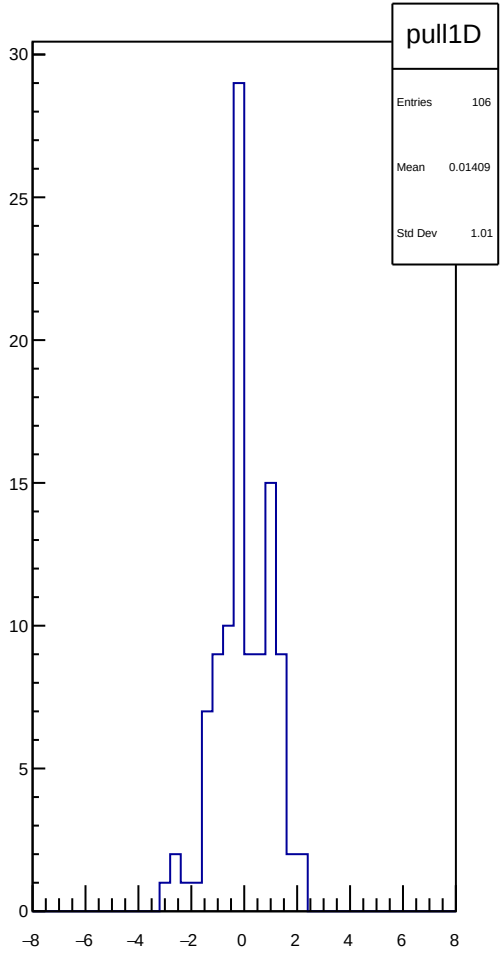

pull1D
Entries 105
Mean −0.002084
Std Dev 0.8972

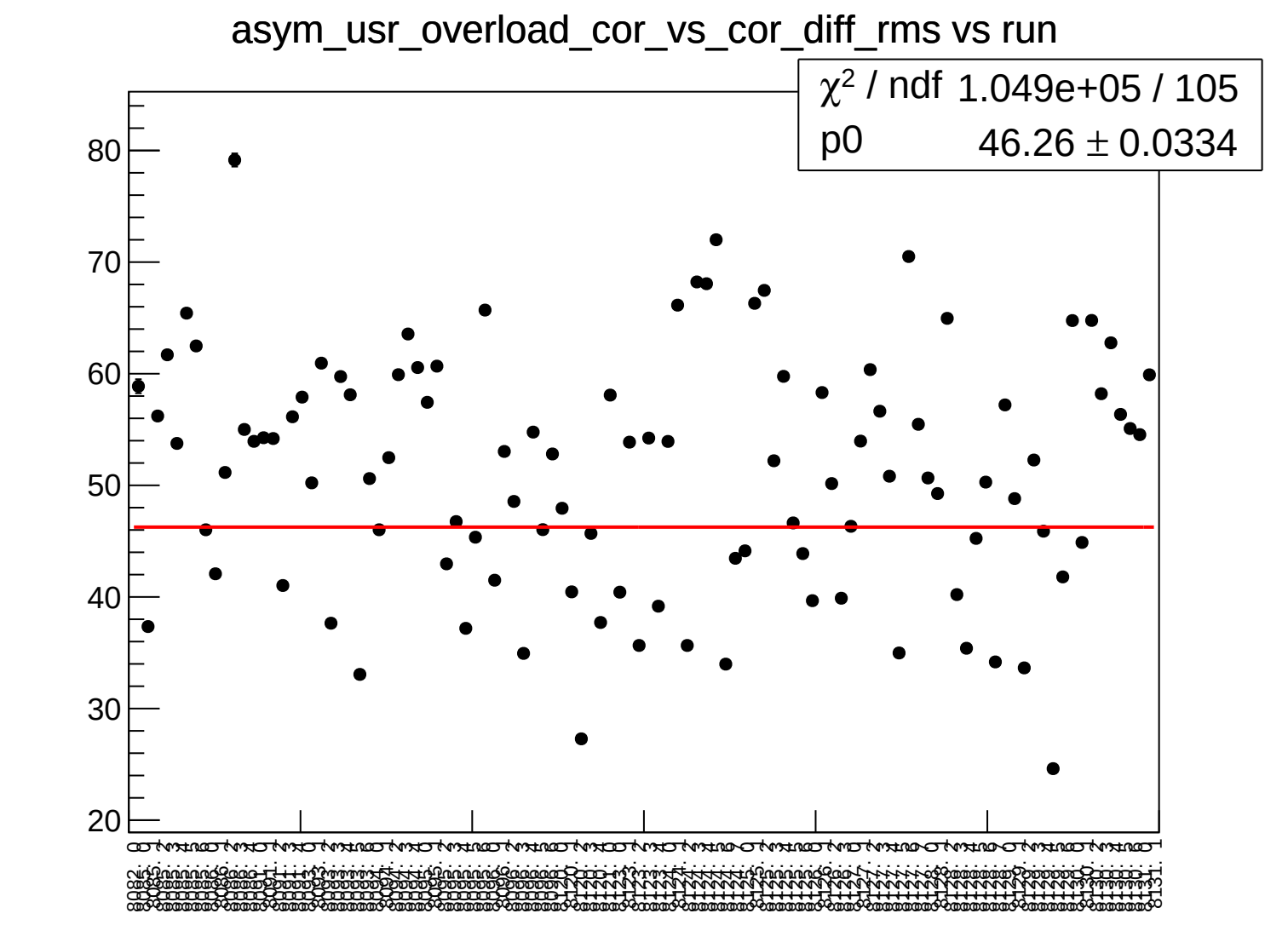

asym_usr_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 4.12e+04 / 104
p0 81.12 ± 0.05775
140
120
100
80
60

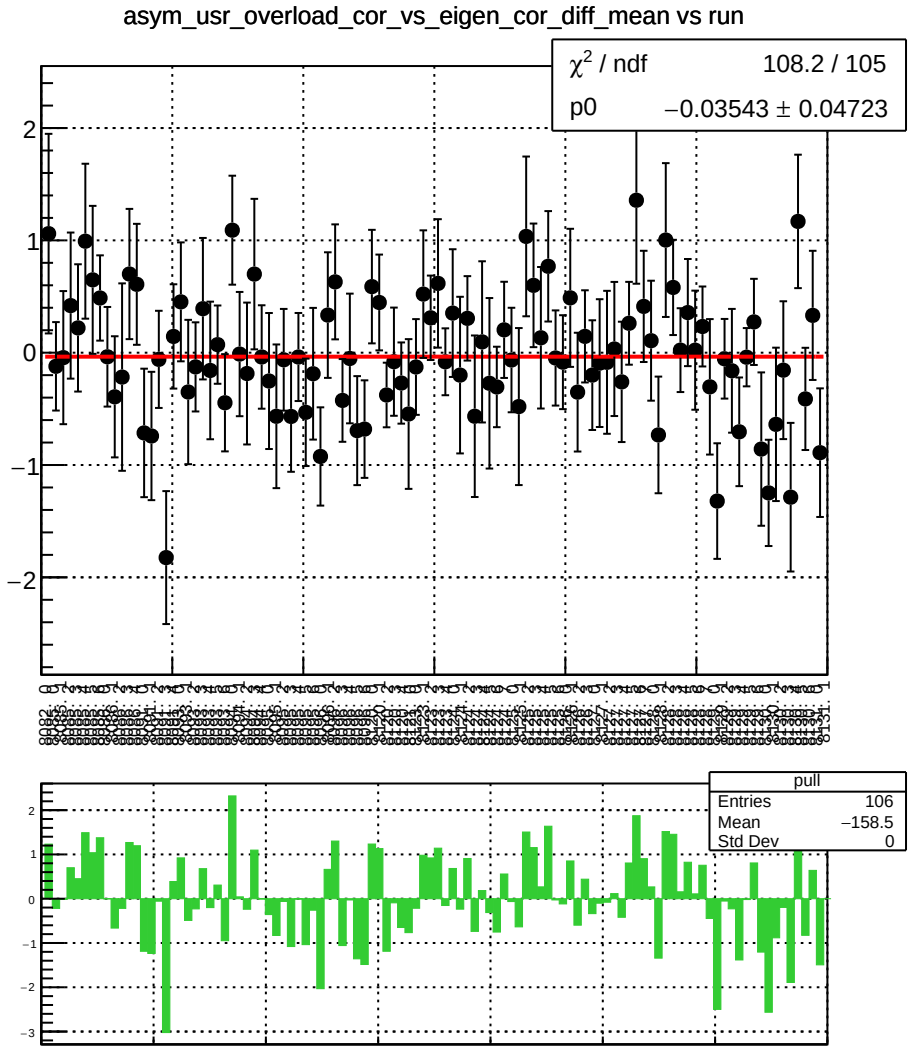

asym_usr_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 70.43 / 105
p0 1.277e−13 ± 1.458e−13
pull
Entries 106
Mean 183.7
Std Dev 0
pull1D
Entries 106
Mean 0.02311
Std Dev 0.8148

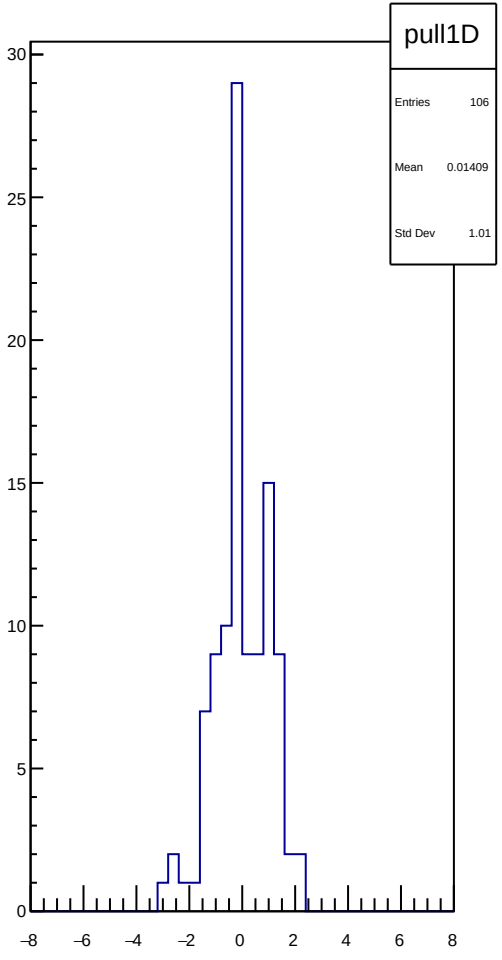

asym_usr_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.972e+05 / 105
p0 1.094e−10 ± 1.031e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

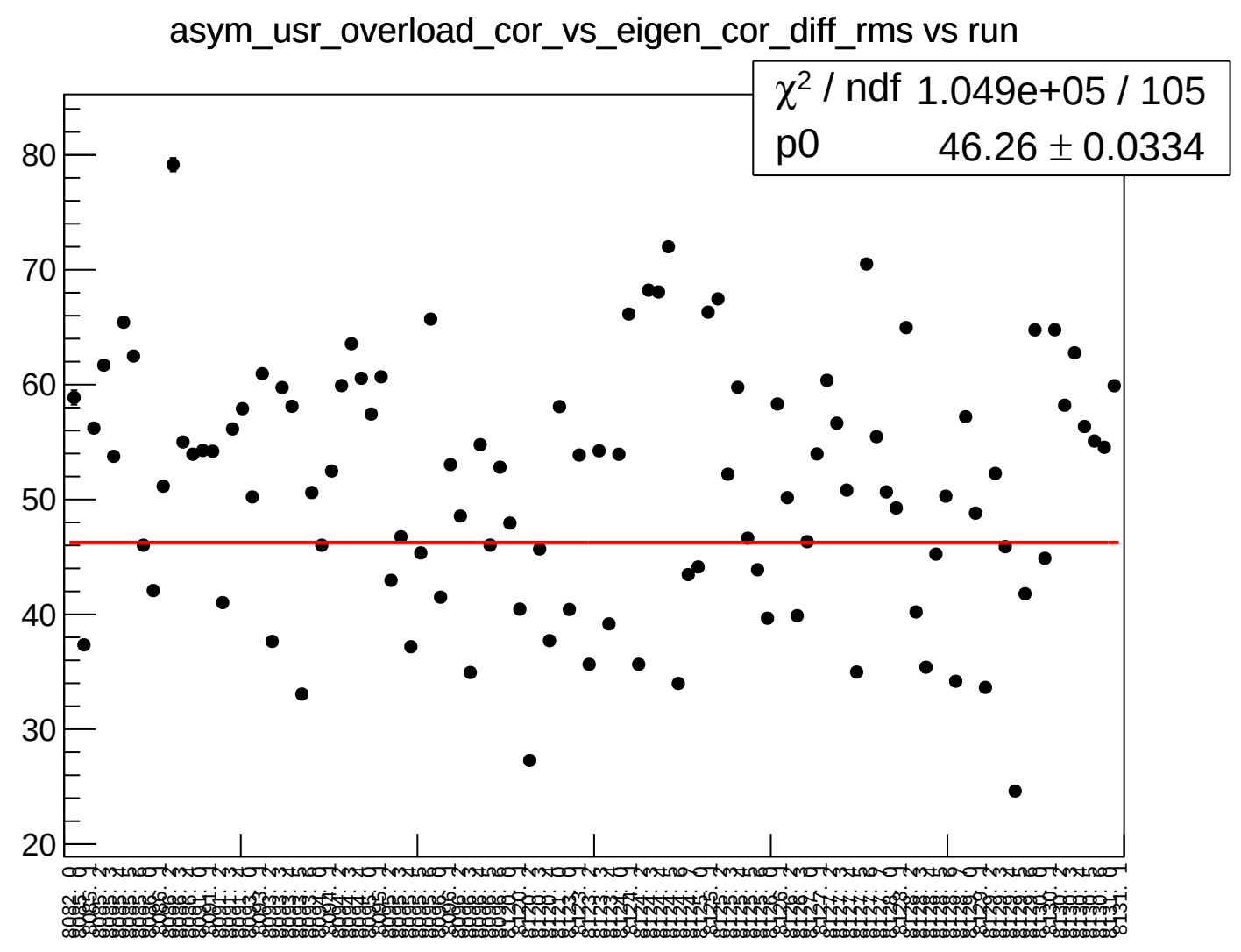

asym_usr_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 108.2 / 105
p0 −0.03543 ± 0.04723
pull
Entries 106
Mean −158.5
Std Dev 0

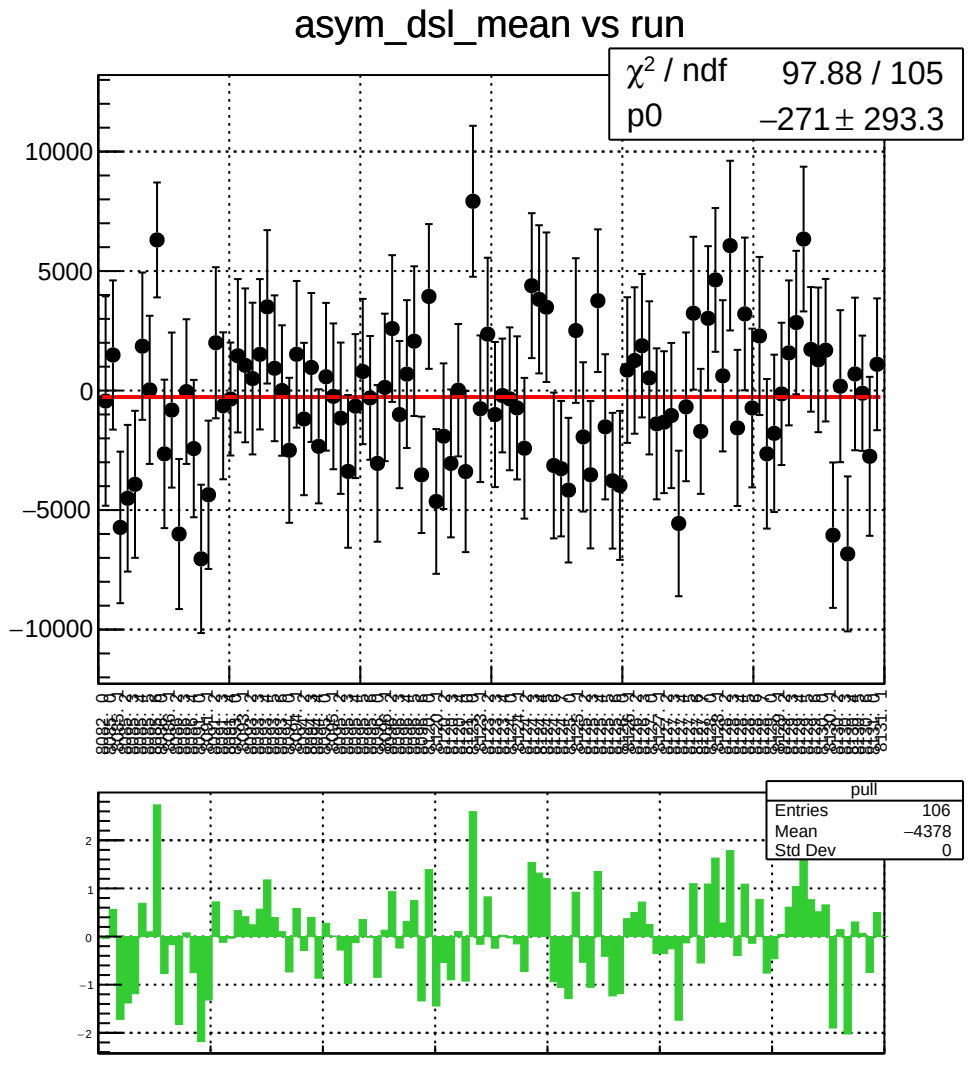

pull1D
Entries 106
Mean 0.01409
Std Dev 1.01

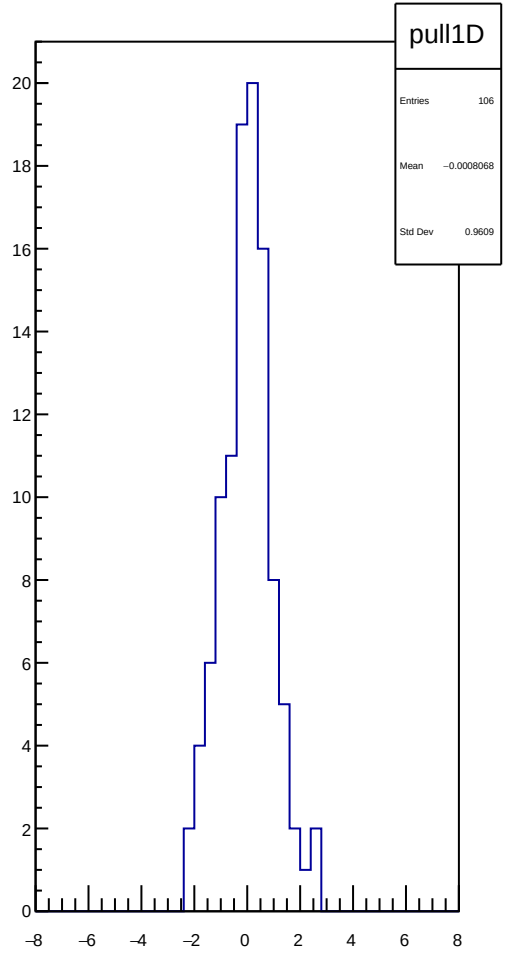

asym_usr_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.049e+05 / 105
p0 46.26 ± 0.0334
80
70
60
50
40
30
20

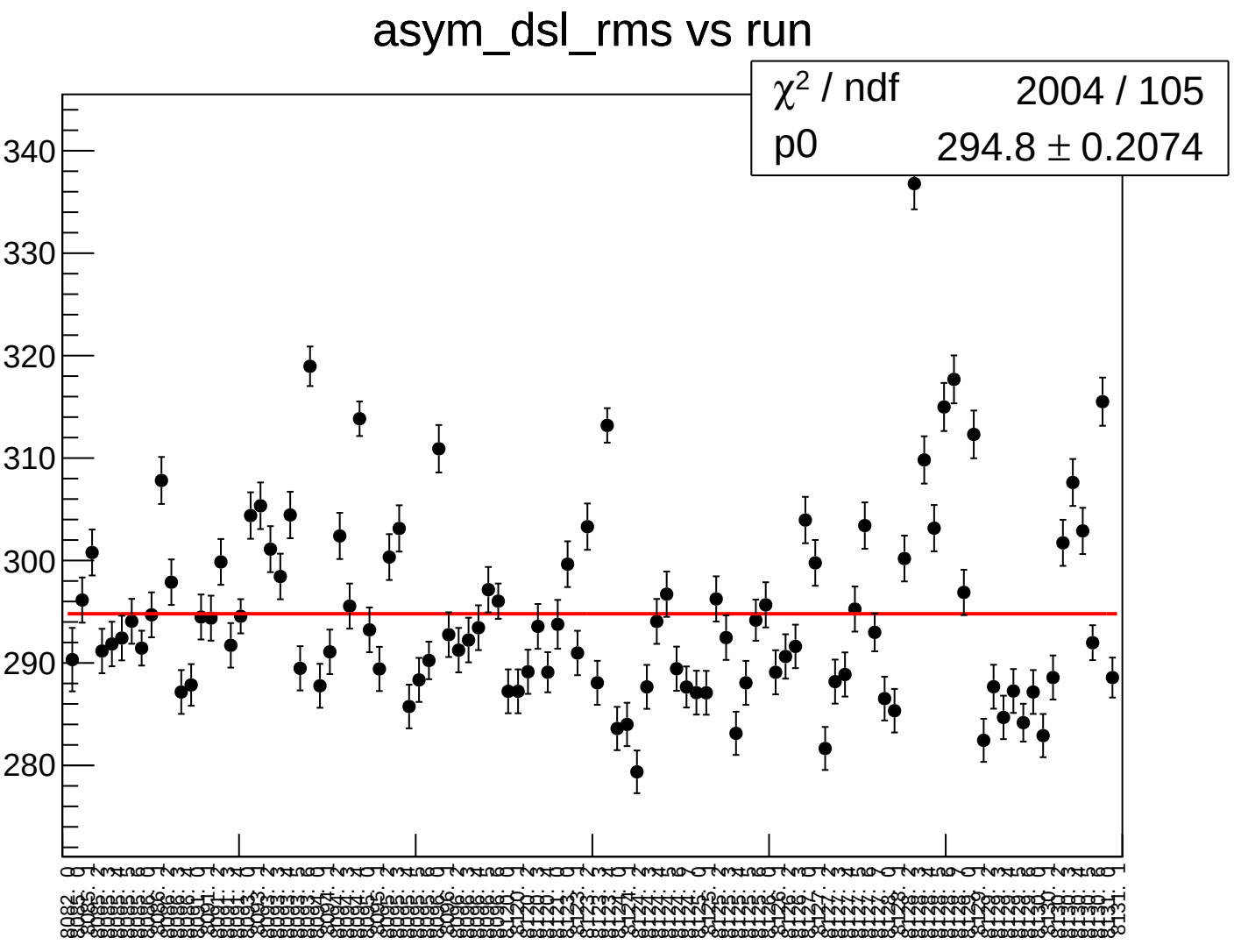

asym_usr_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 108.2 / 105
p0 −0.03543 ± 0.04723
pull
Entries 106
Mean −158.5
Std Dev 0

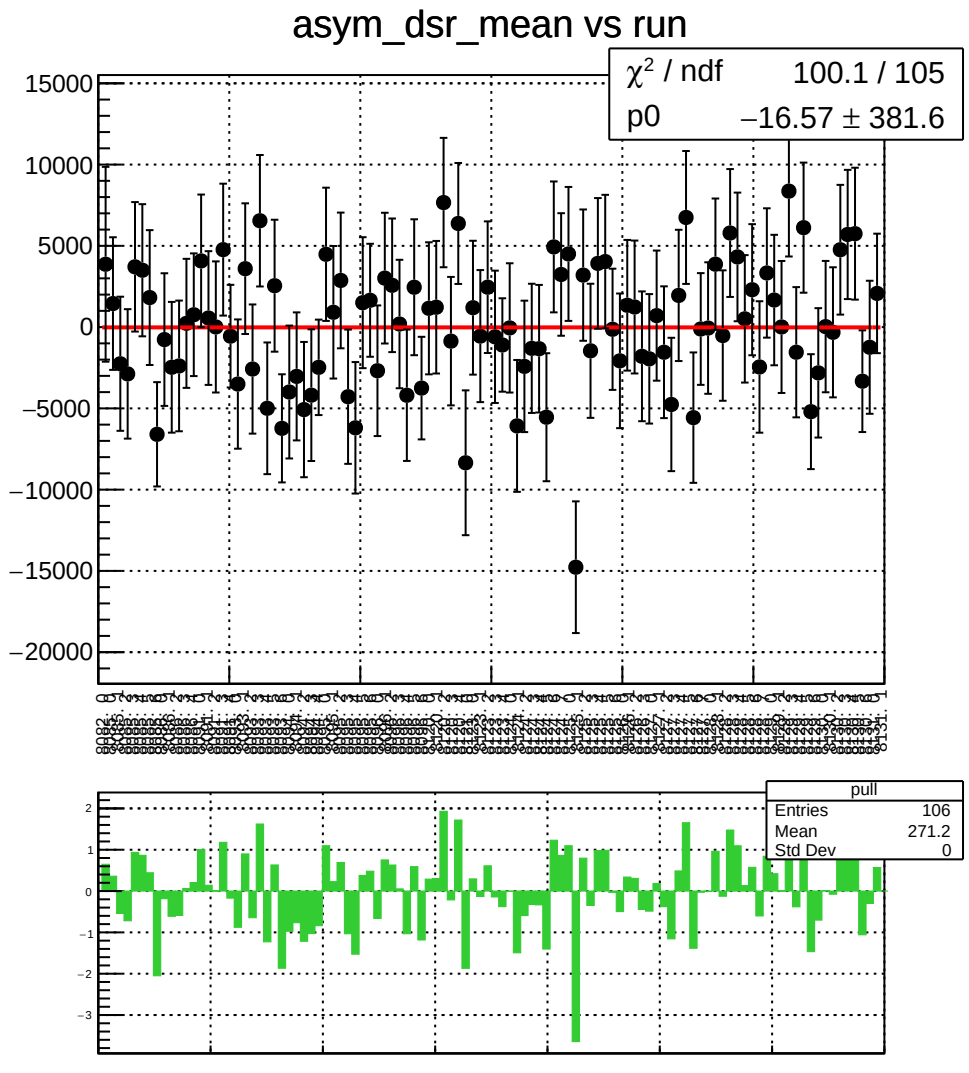

pull1D
Entries 106
Mean 0.01409
Std Dev 1.01

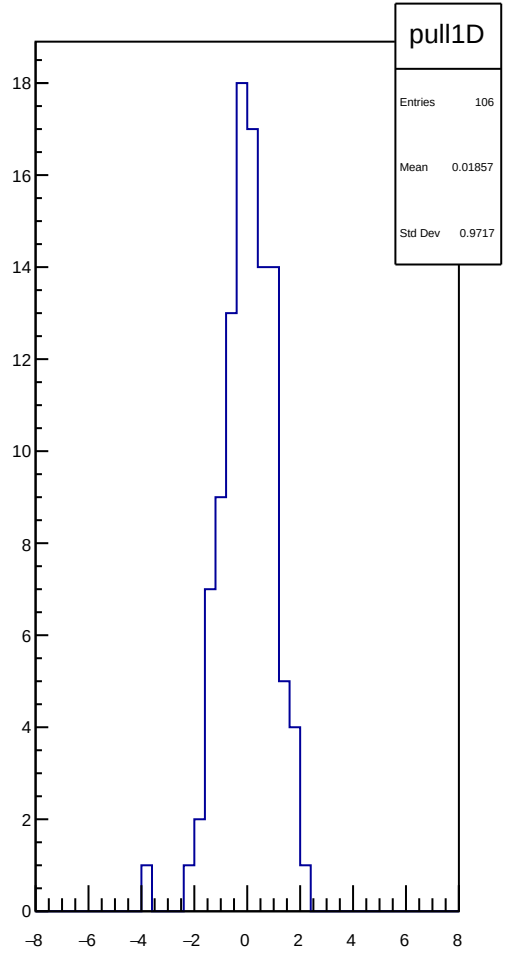

asym_usr_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.049e+05 / 105
p0 46.26 ± 0.0334
80
70
60
50
40
30
20

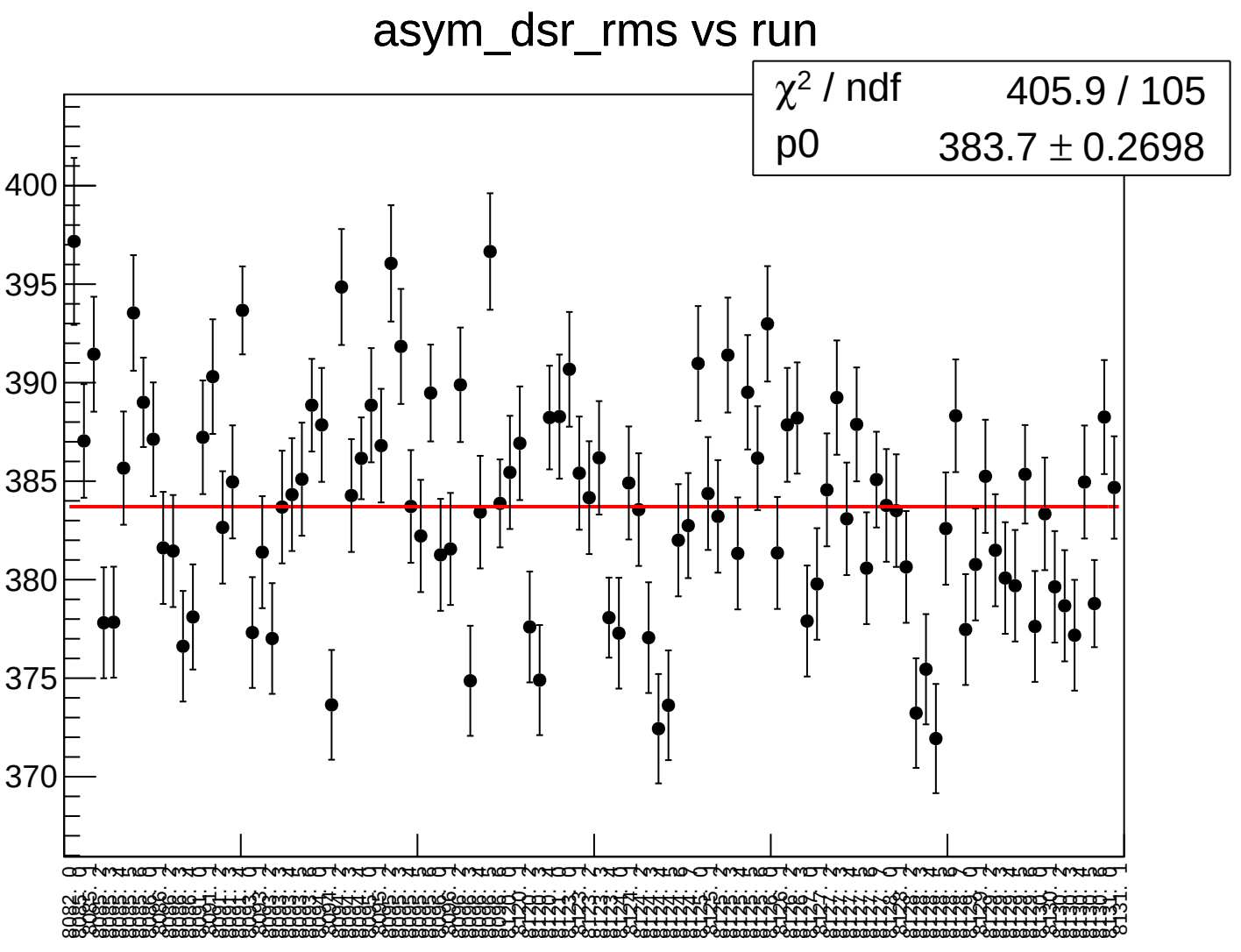

asym_dsl_mean vs run
χ² / ndf 97.88 / 105
p0 −271 ± 293.3
10000
5000
0
−5000
−10000
pull
Entries 106
Mean −4378
Std Dev 0
2
1
0
−1
−2

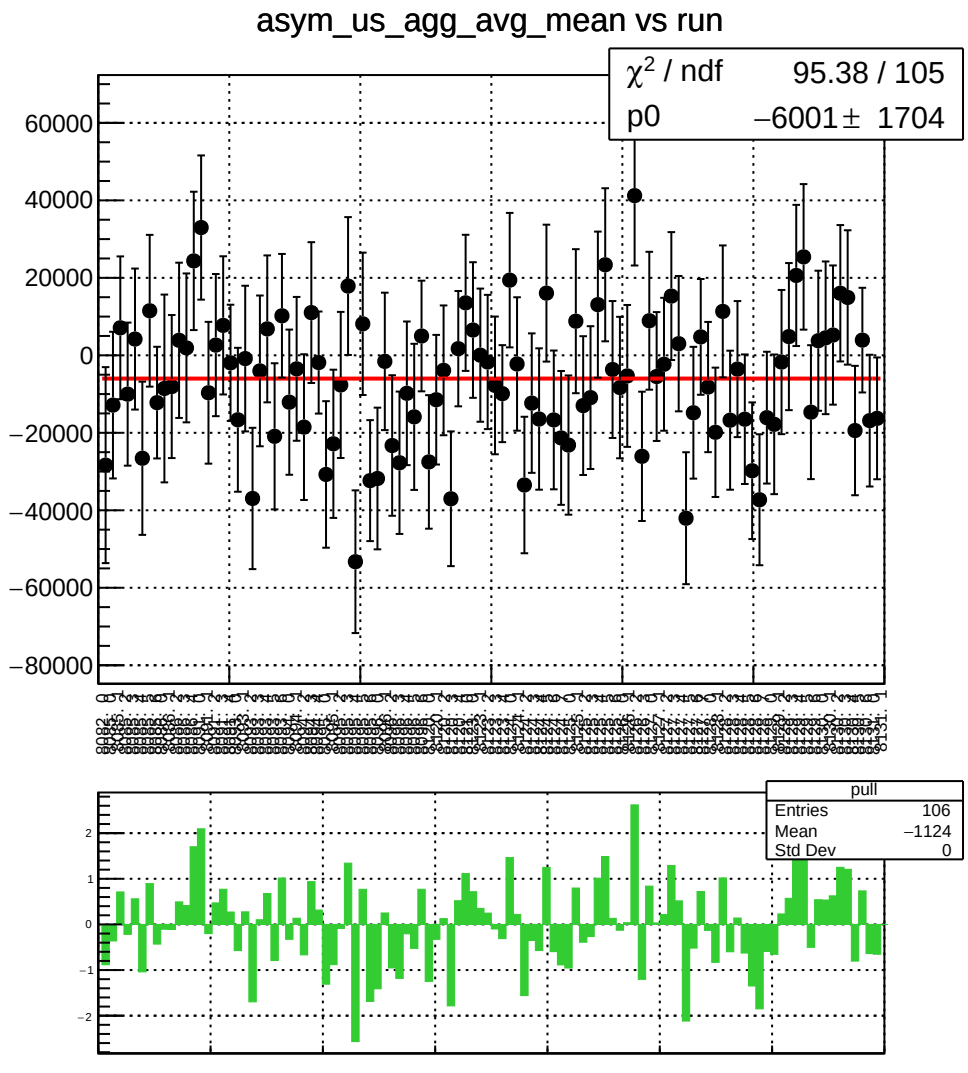

pull1D
Entries 106
Mean −0.0008068
Std Dev 0.9609
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

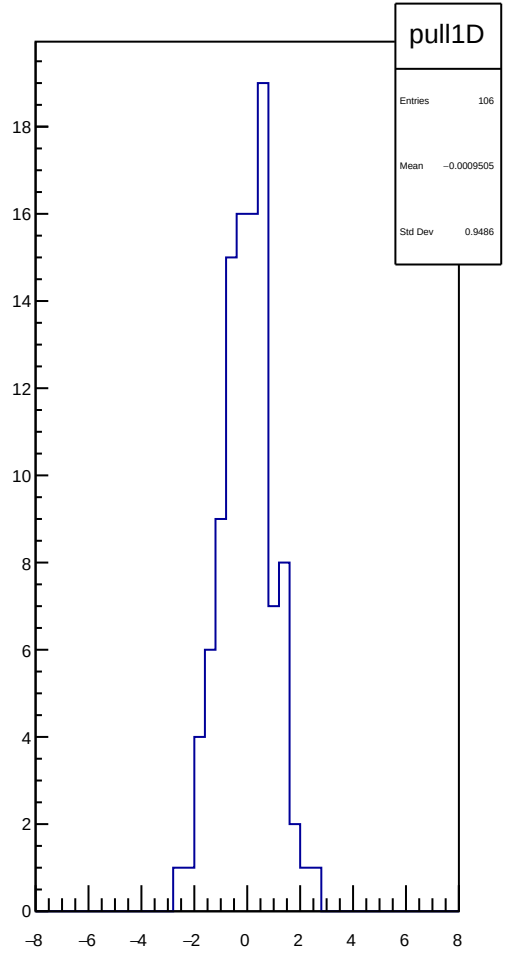

asym_dsl_rms vs run
χ² / ndf 2004 / 105
p0 294.8 ± 0.2074
340
330
320
310
300
290
280

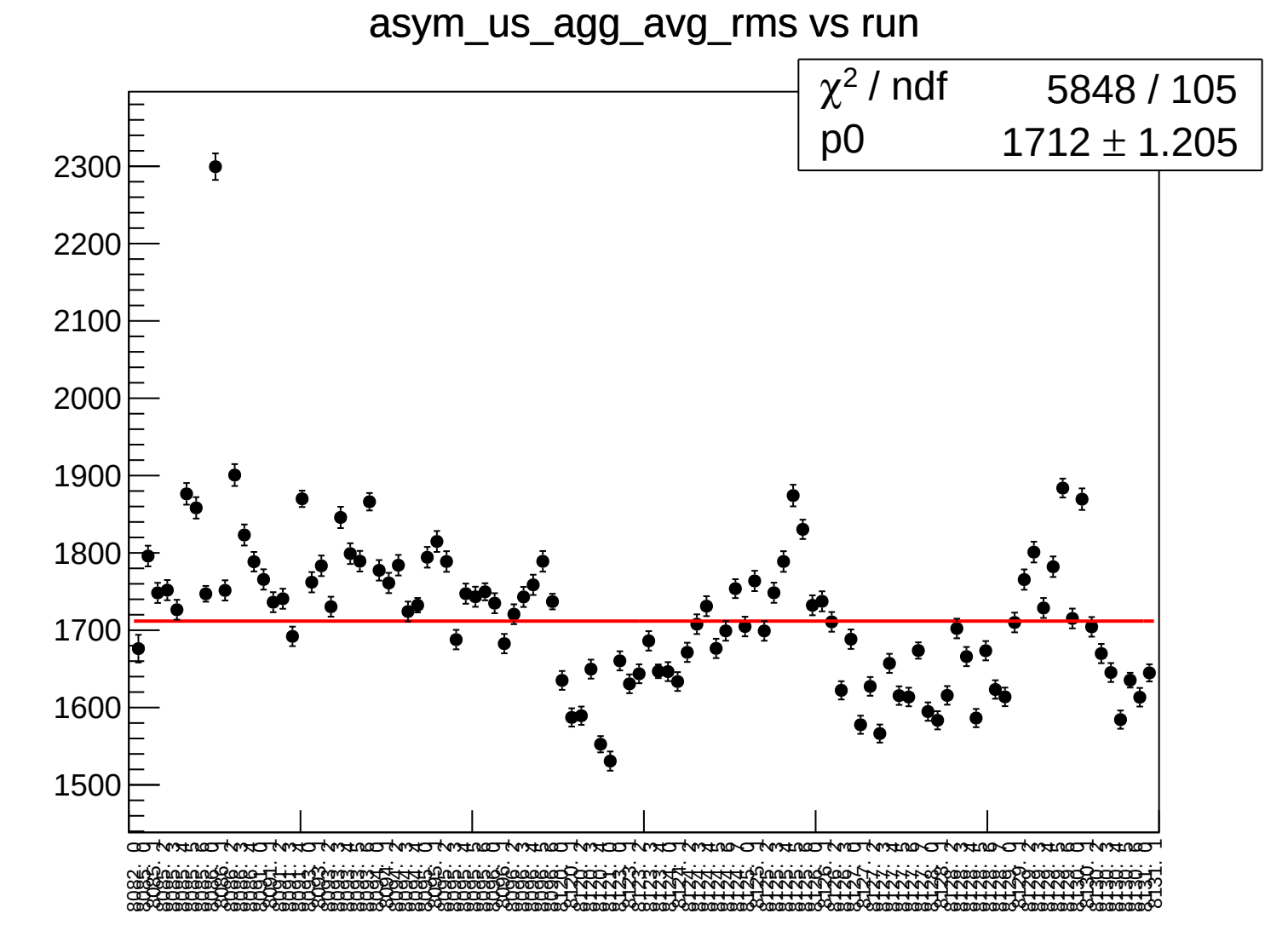

asym_dsr_mean vs run
χ² / ndf 100.1 / 105
p0 −16.57 ± 381.6
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 106
Mean 271.2
Std Dev 0
2
1
0
−1
−2
−3

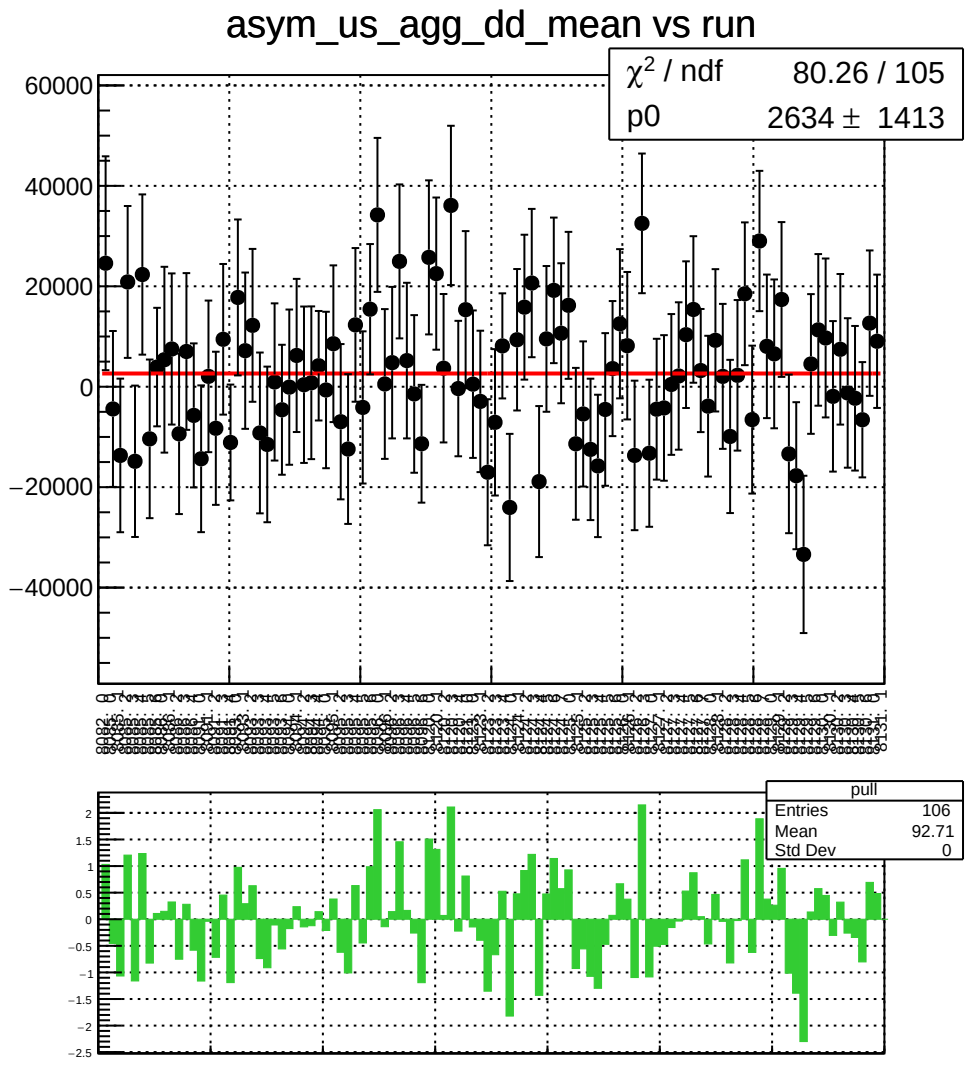

pull1D
Entries 106
Mean 0.01857
Std Dev 0.9717
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

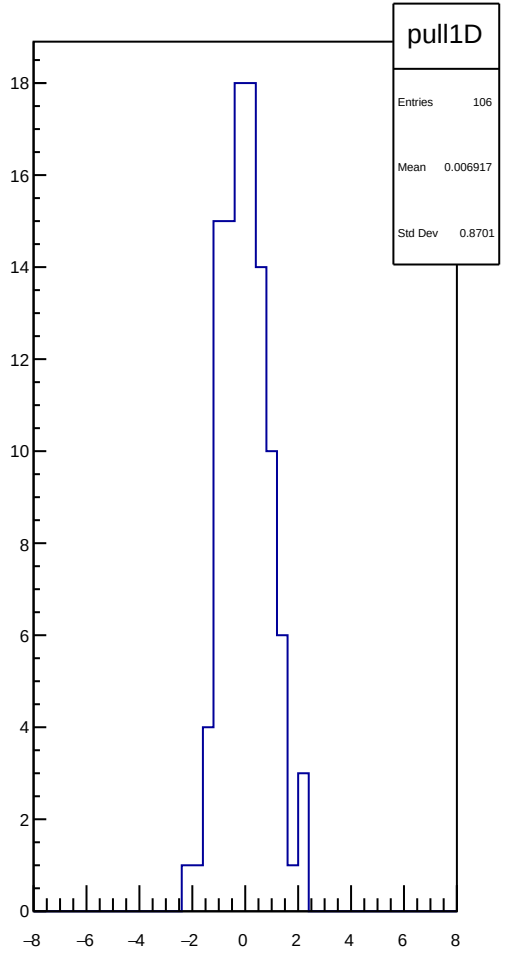

asym_dsr_rms vs run
$\chi^2$ / ndf 405.9 / 105
p0 383.7 ± 0.2698
400
395
390
385
380
375
370

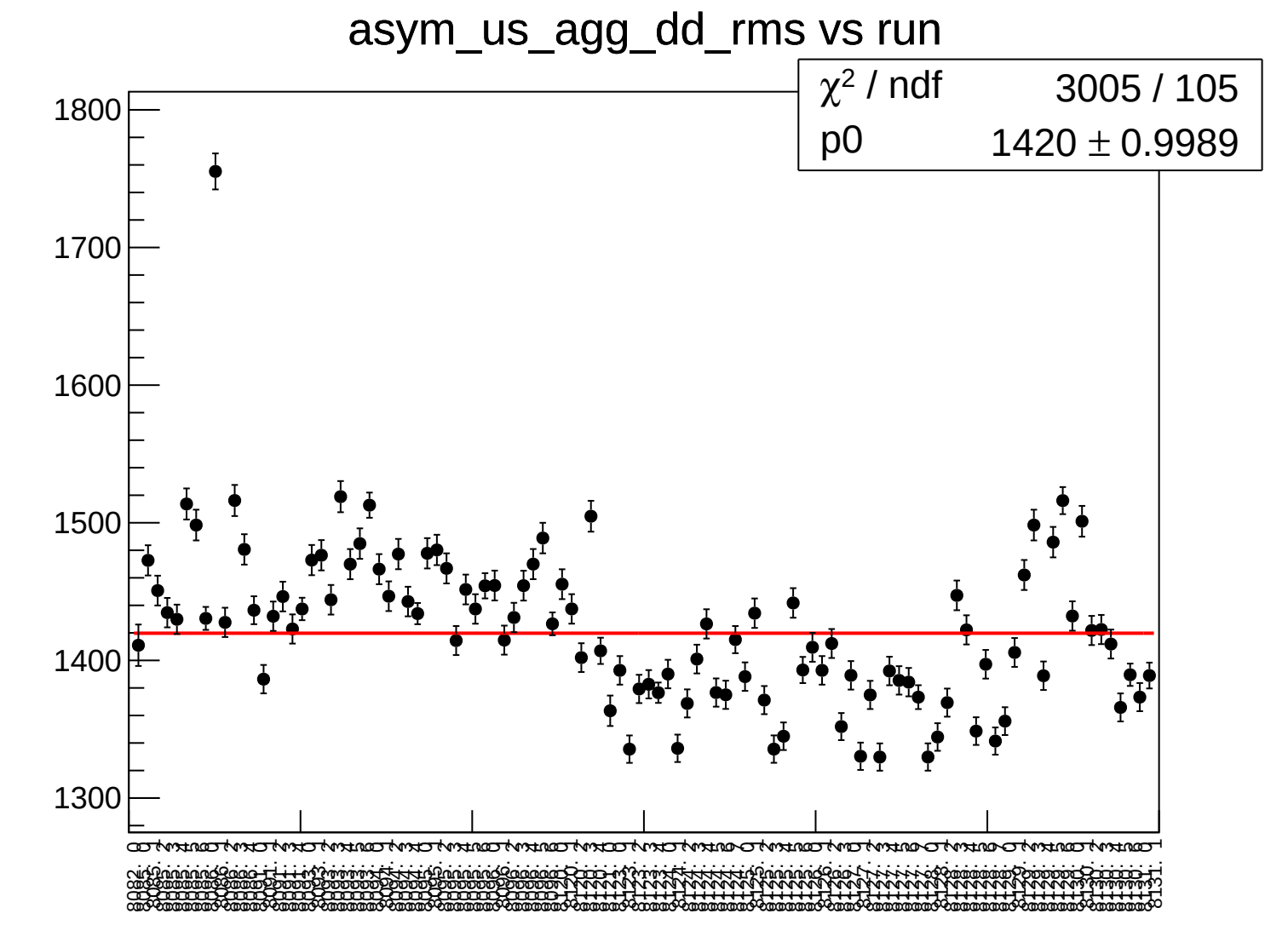

asym_us_agg_avg_mean vs run
χ² / ndf 95.38 / 105
p0 −6001 ± 1704
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 106
Mean −1124
Std Dev 0
2
1
0
−1
−2

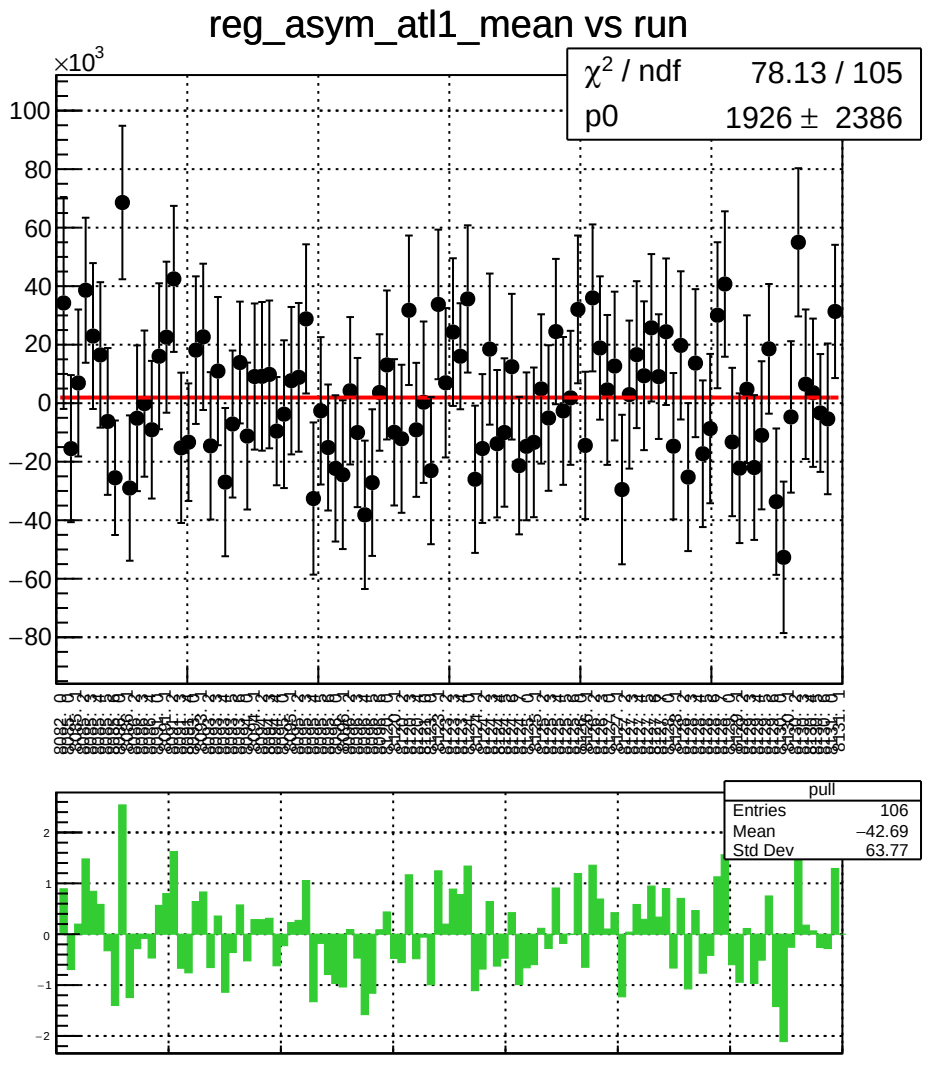

pull1D
Entries 106
Mean −0.0009505
Std Dev 0.9486
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

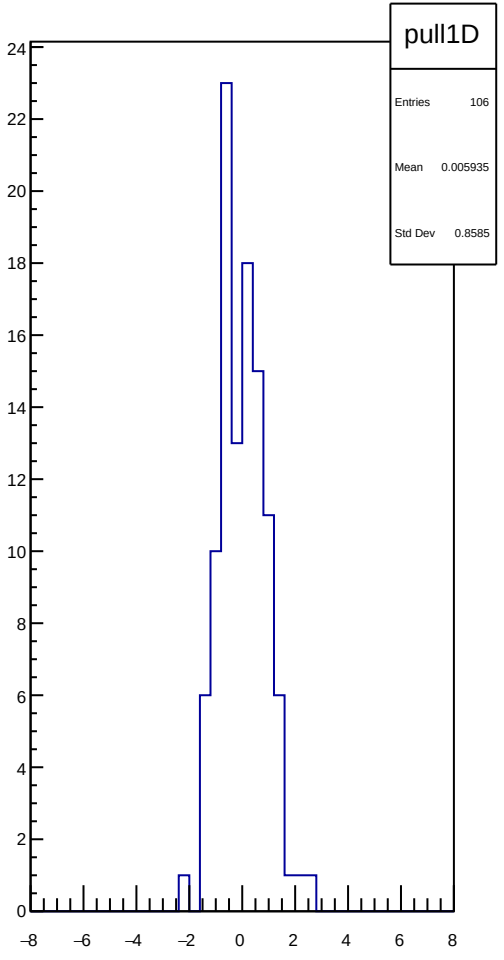

asym_us_agg_avg_rms vs run
$\chi^2$ / ndf 5848 / 105
p0 1712 ± 1.205
2300
2200
2100
2000
1900
1800
1700
1600
1500

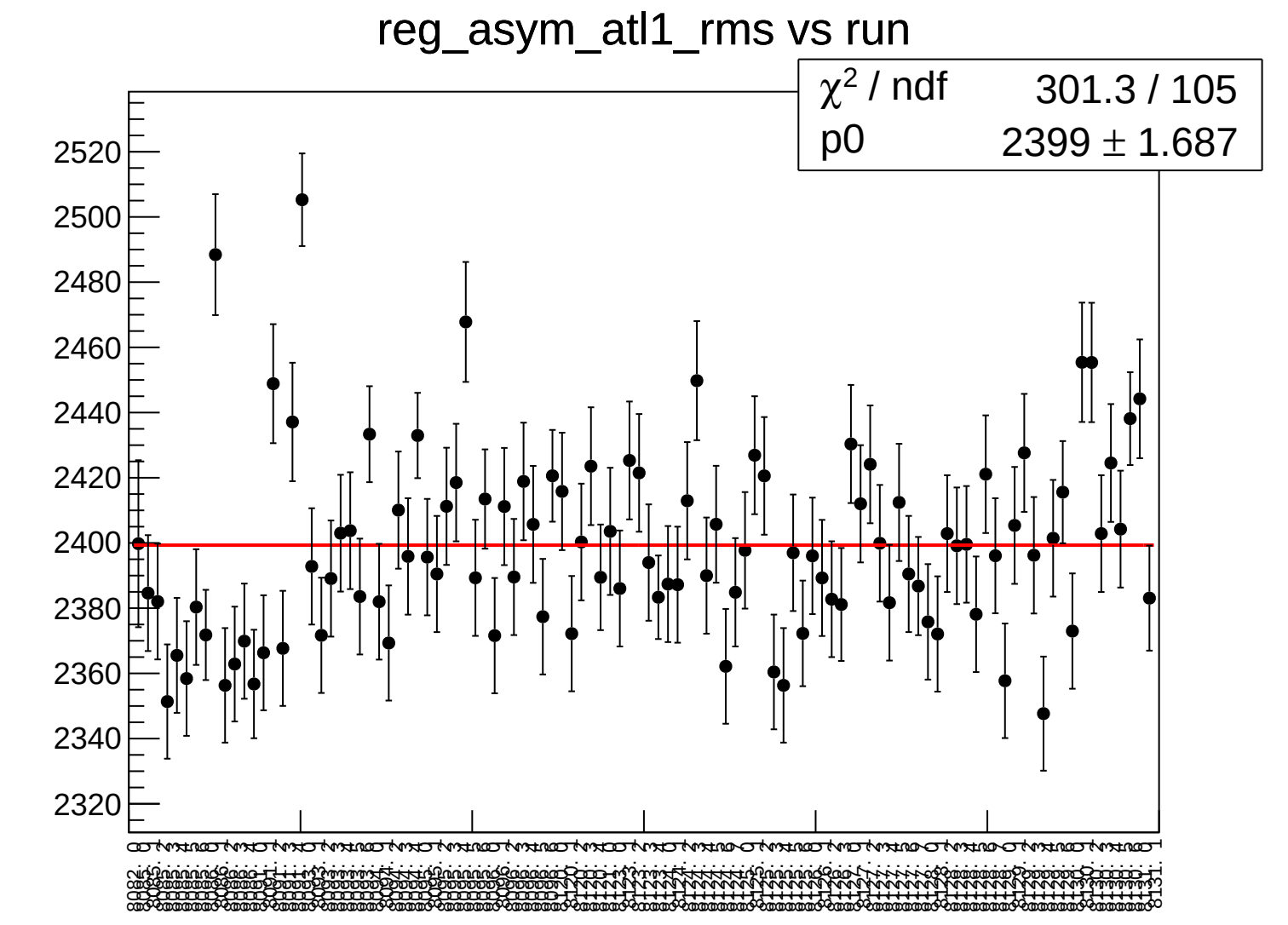

asym_us_agg_dd_mean vs run
χ² / ndf 80.26 / 105
p0 2634 ± 1413
60000
40000
20000
0
−20000
−40000
pull
Entries 106
Mean 92.71
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

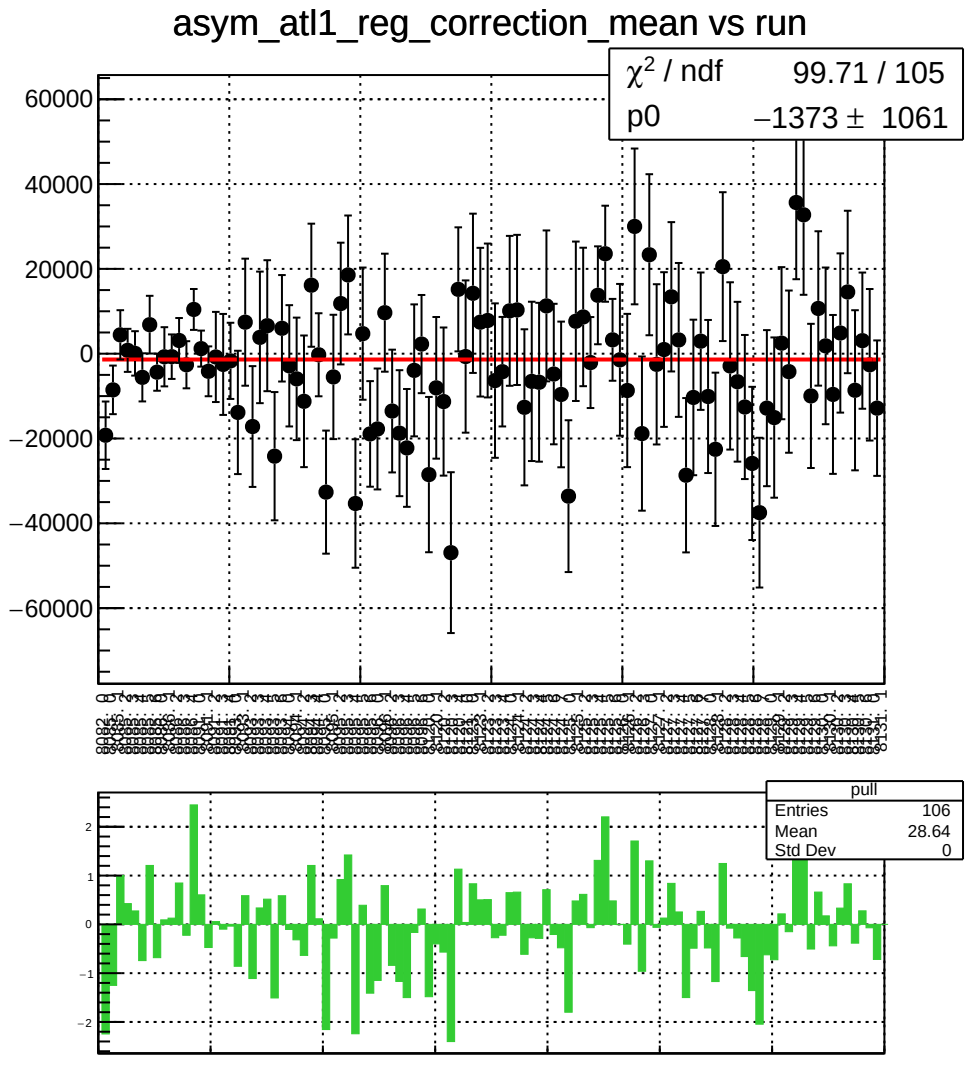

pull1D
Entries 106
Mean 0.006917
Std Dev 0.8701
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

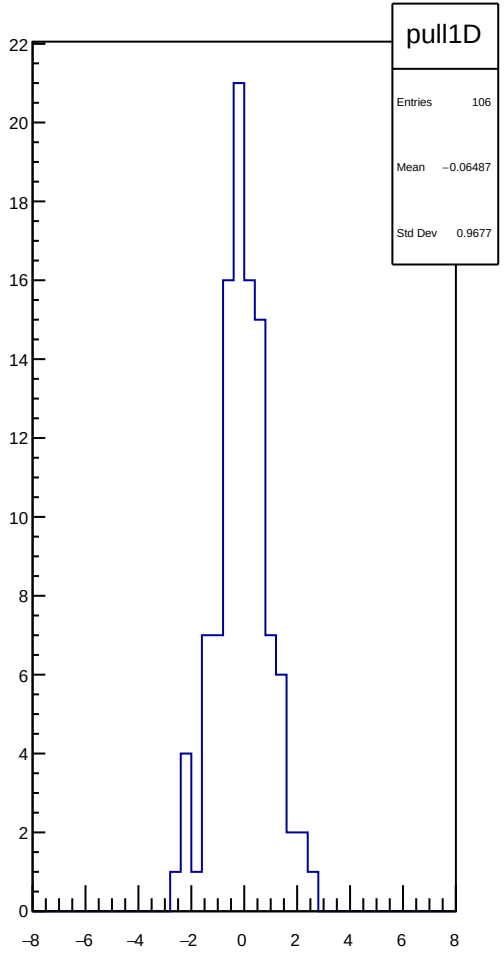

asym_us_agg_dd_rms vs run
χ² / ndf 3005 / 105
p0 1420 ± 0.9989
1800
1700
1600
1500
1400
1300

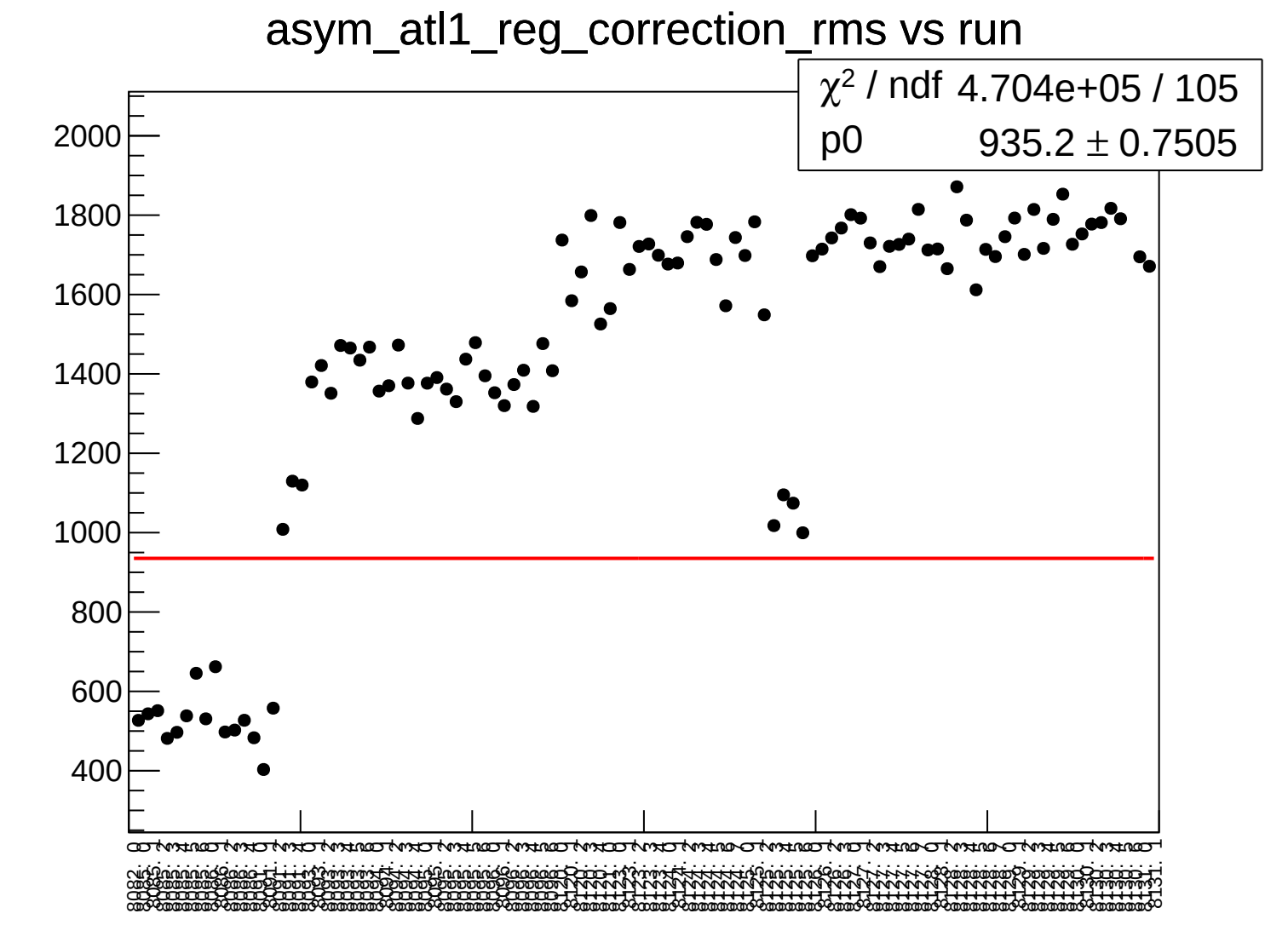

reg_asym_atl1_mean vs run
×10^3
χ^2 / ndf 78.13 / 105
p0 1926 ± 2386
pull
Entries 106
Mean −42.69
Std Dev 63.77

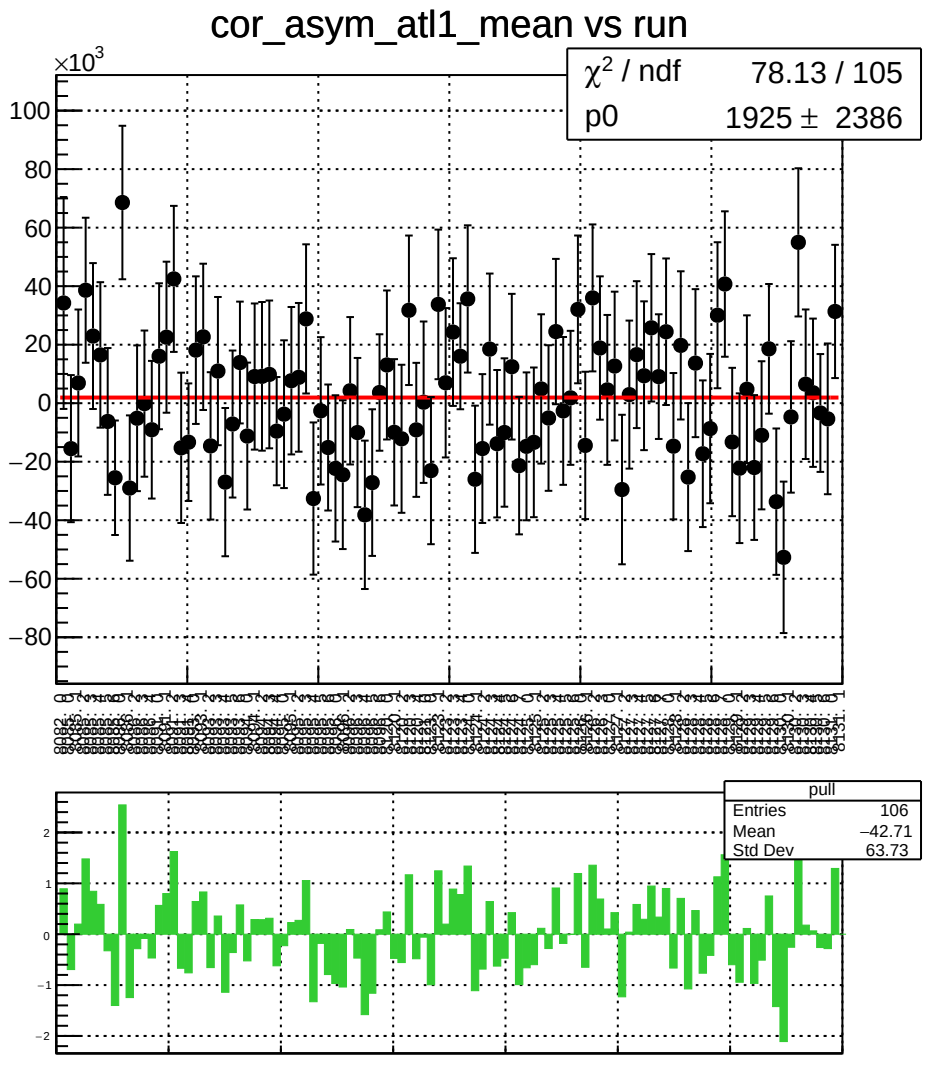

pull1D
Entries 106
Mean 0.005935
Std Dev 0.8585

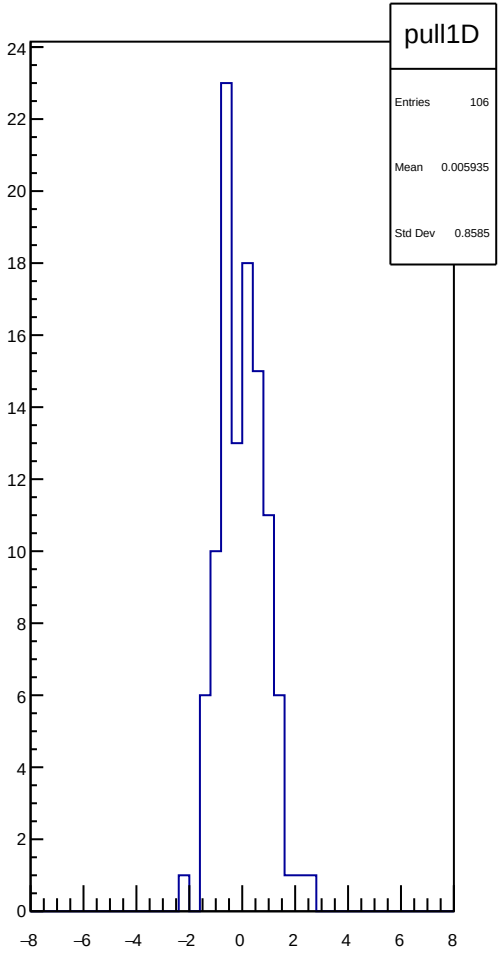

reg_asym_atl1_rms vs run
χ² / ndf 301.3 / 105
p0 2399 ± 1.687
2520
2500
2480
2460
2440
2420
2400
2380
2360
2340
2320

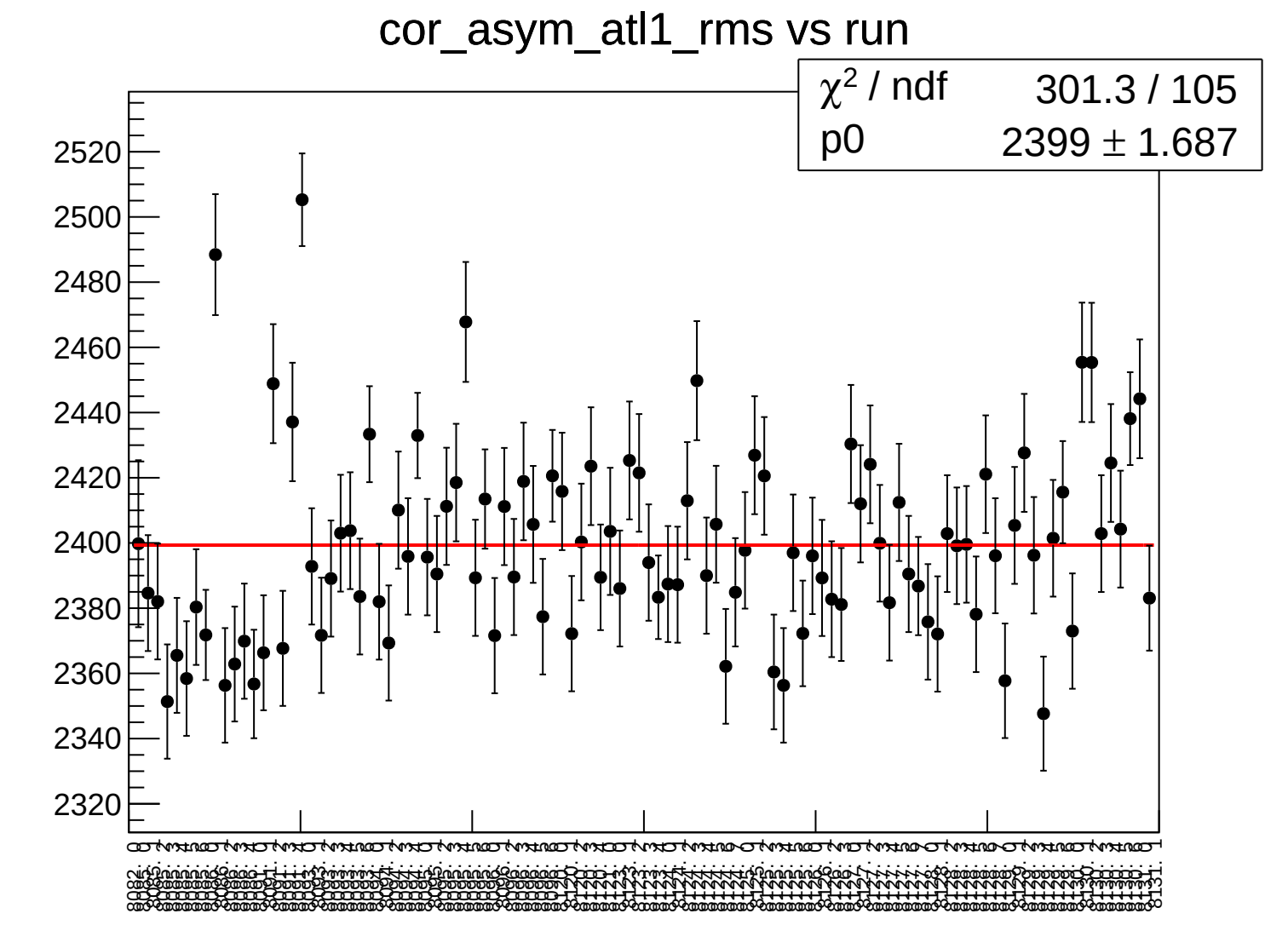

asym_atl1_reg_correction_mean vs run
χ² / ndf 99.71 / 105
p0 −1373 ± 1061
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean 28.64
Std Dev 0
2
1
0
−1
−2

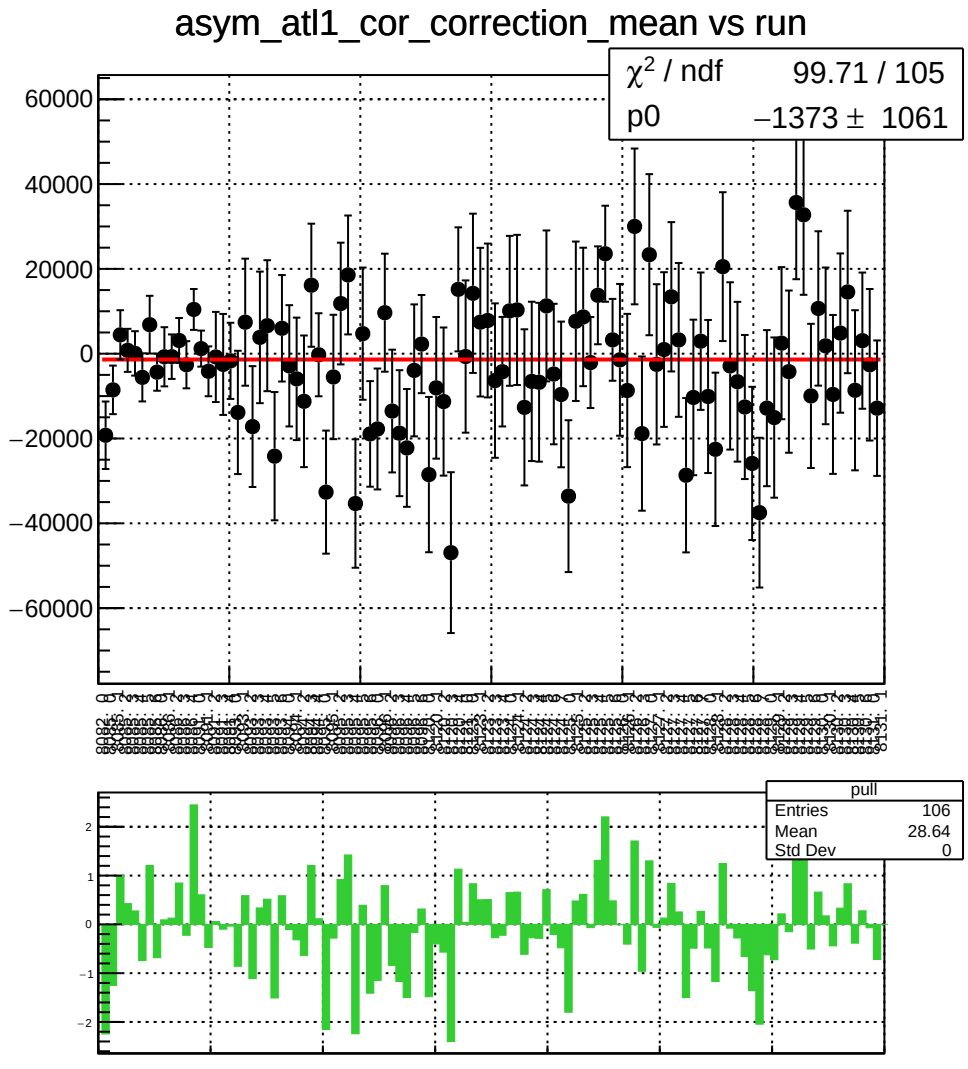

pull1D
Entries 106
Mean −0.06487
Std Dev 0.9677
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

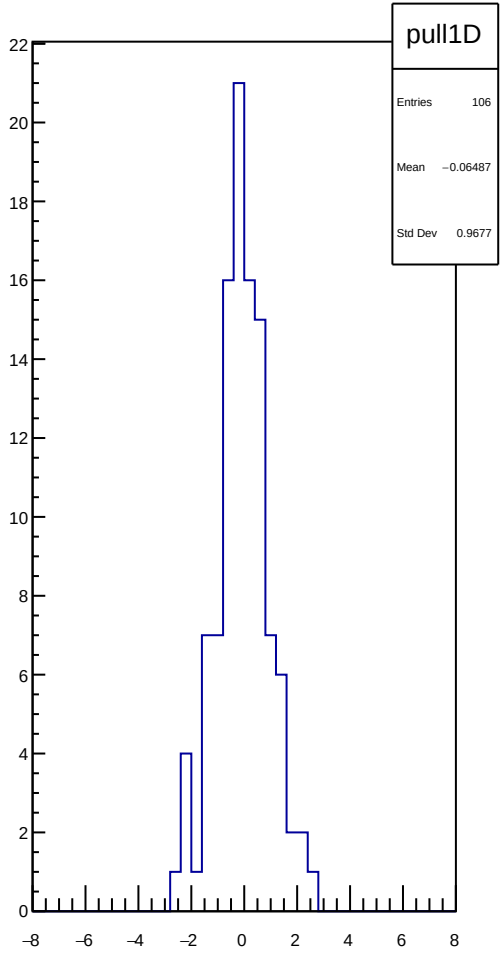

asym_atl1_reg_correction_rms vs run
$\chi^2$ / ndf 4.704e+05 / 105
p0 935.2 ± 0.7505
2000
1800
1600
1400
1200
1000
800
600
400

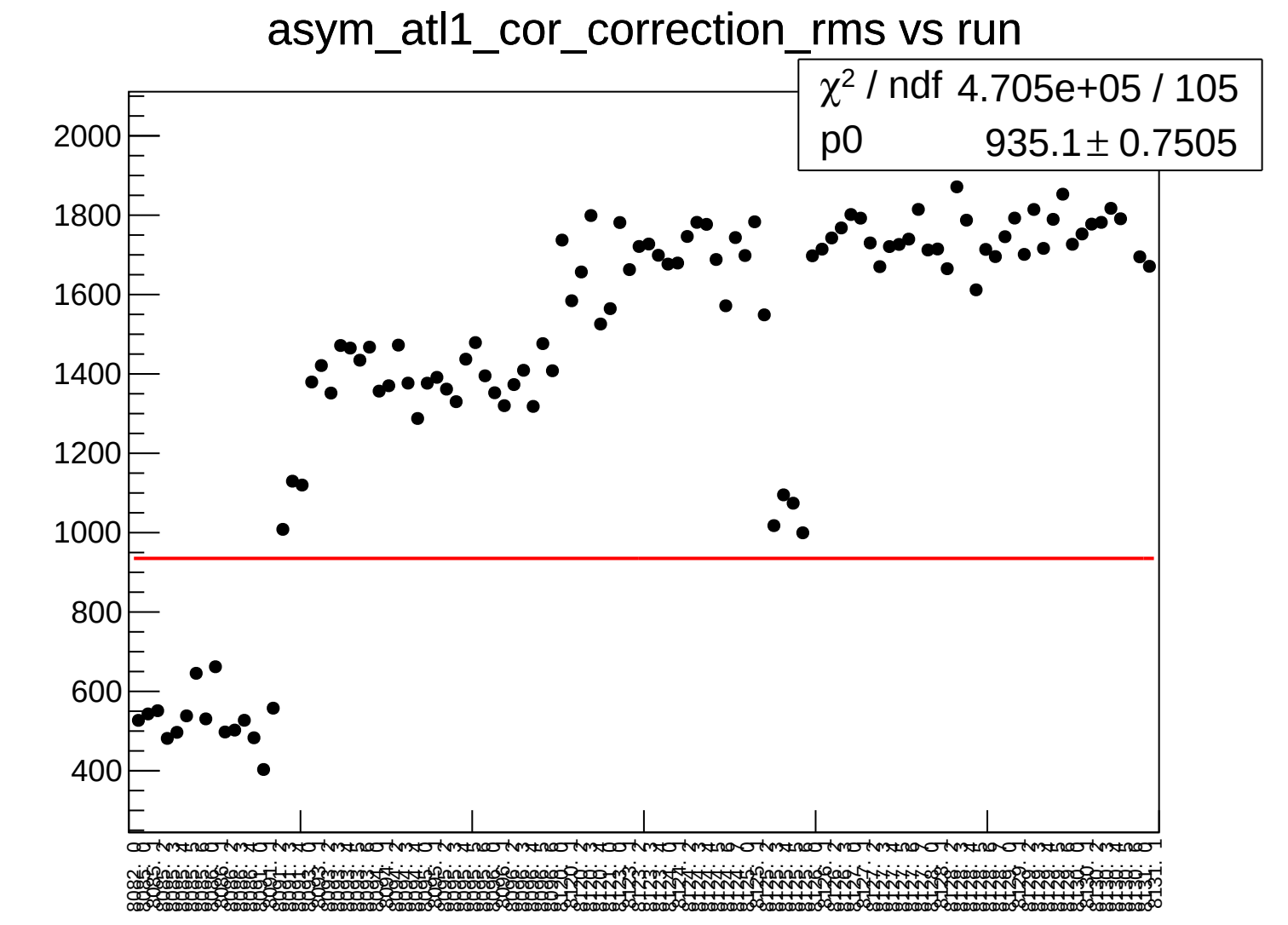

cor_asym_atl1_mean vs run
×10^3
χ^2 / ndf 78.13 / 105
p0 1925 ± 2386
pull
Entries 106
Mean −42.71
Std Dev 63.73

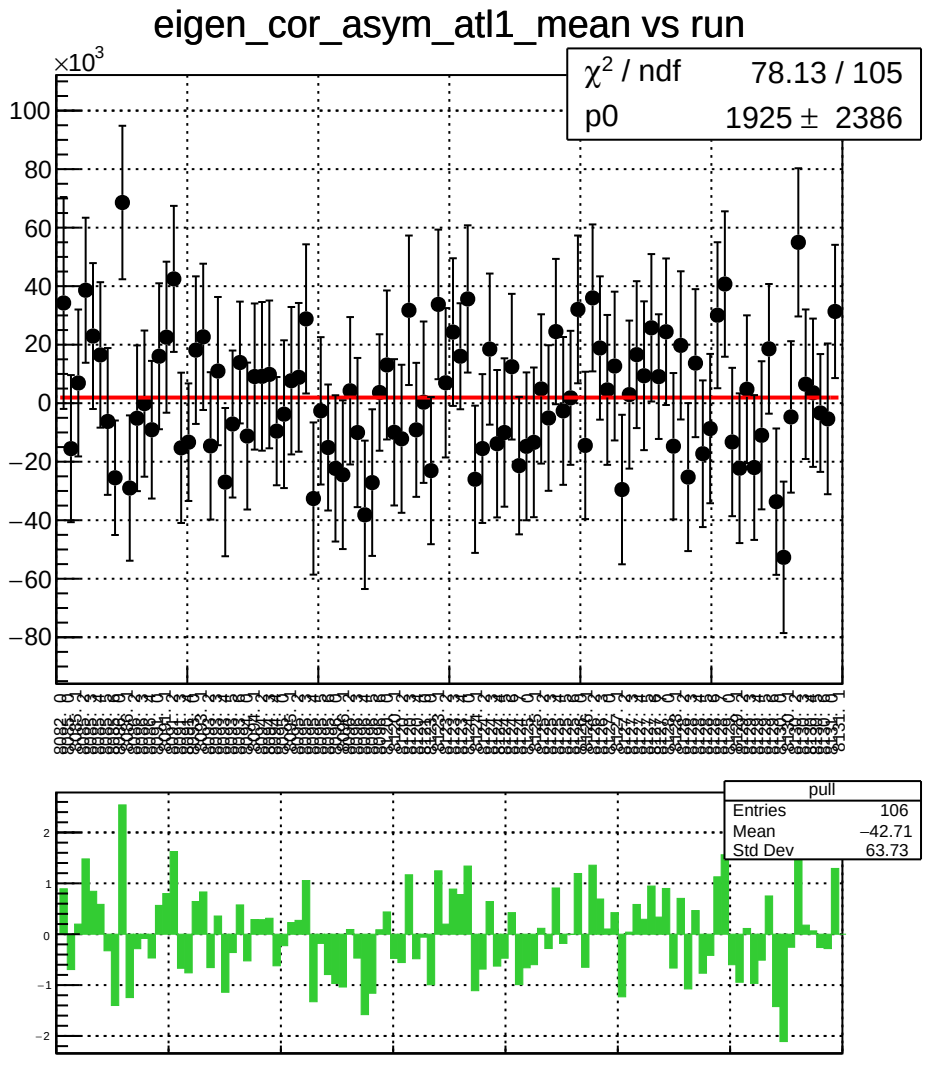

pull1D
Entries 106
Mean 0.005935
Std Dev 0.8585

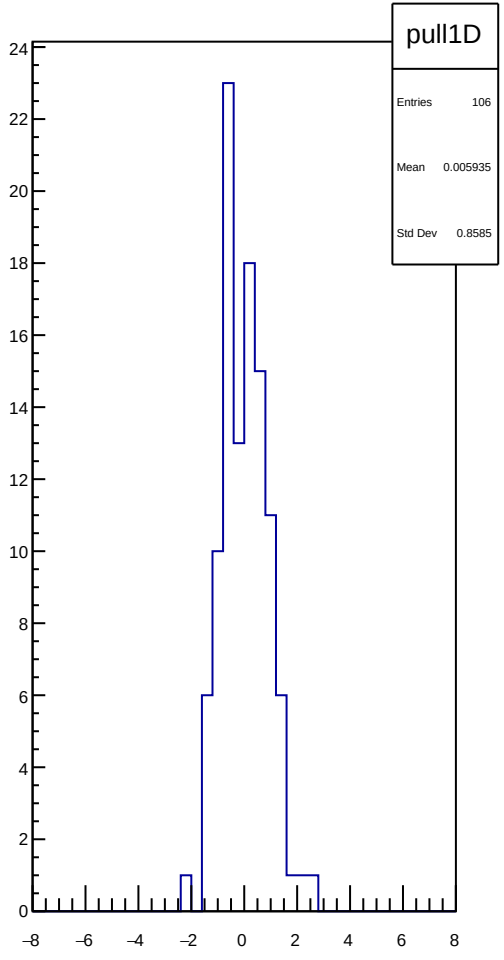

cor_asym_atl1_rms vs run
$\chi^2$ / ndf 301.3 / 105
p0 2399 ± 1.687
2520
2500
2480
2460
2440
2420
2400
2380
2360
2340
2320

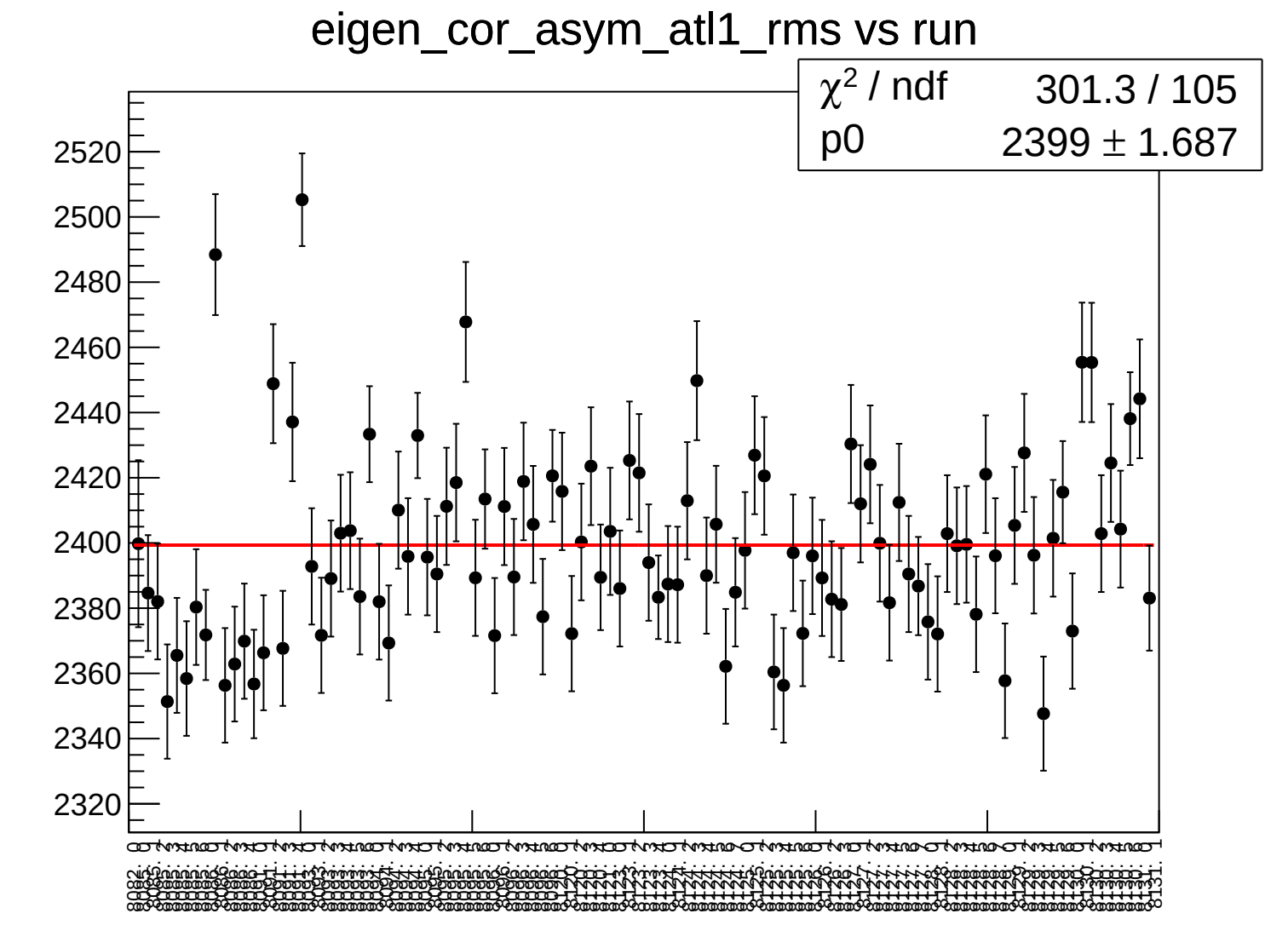

asym_atl1_cor_correction_mean vs run
χ² / ndf 99.71 / 105
p0 −1373 ± 1061
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean 28.64
Std Dev 0
2
1
0
−1
−2

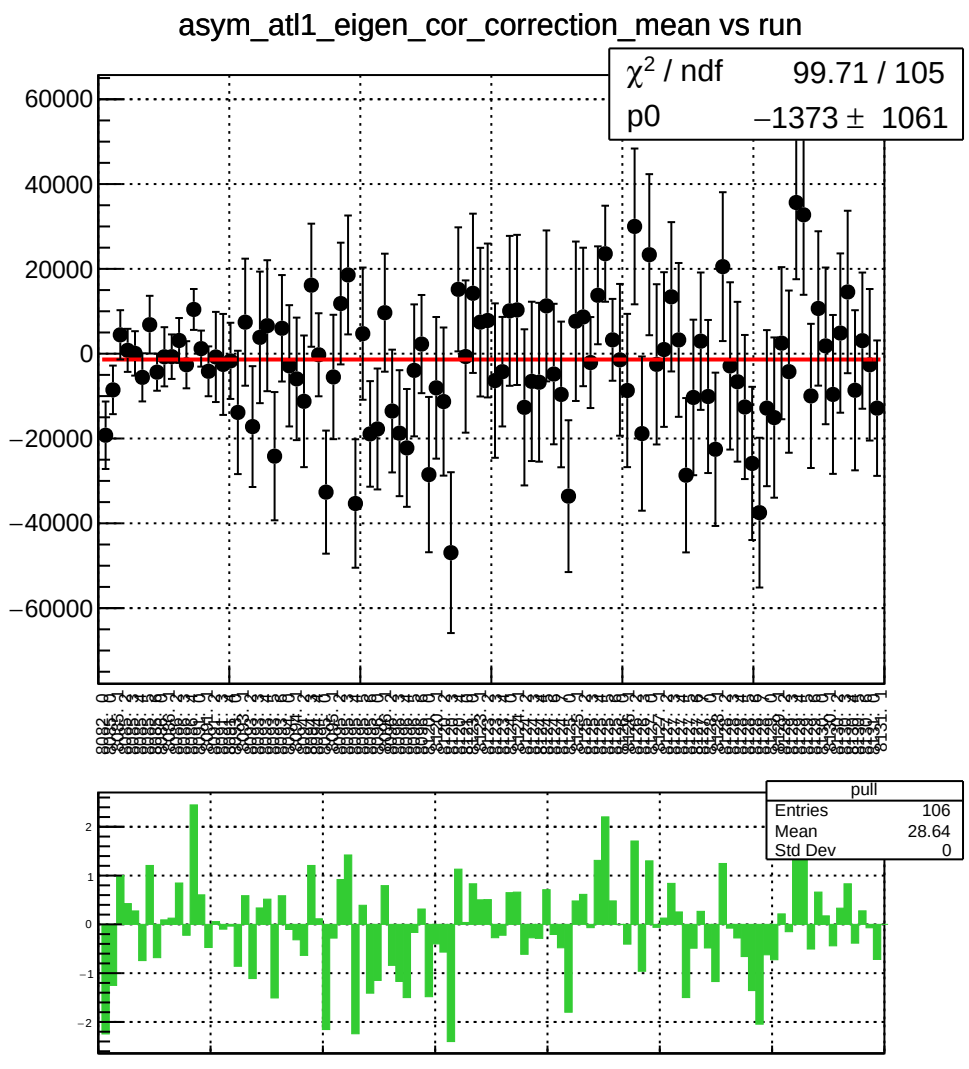

pull1D
Entries 106
Mean −0.06487
Std Dev 0.9677
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

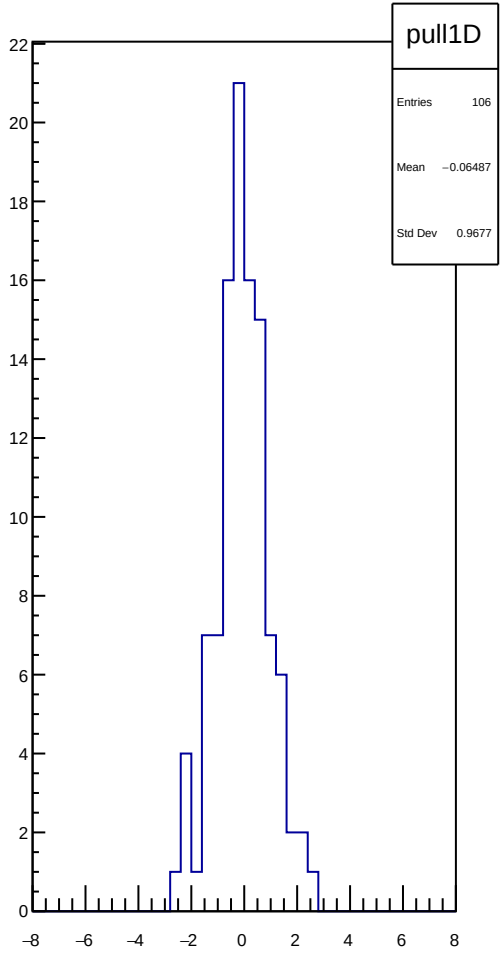

asym_atl1_cor_correction_rms vs run
$\chi^2$ / ndf 4.705e+05 / 105
p0 935.1 ± 0.7505
2000
1800
1600
1400
1200
1000
800
600
400

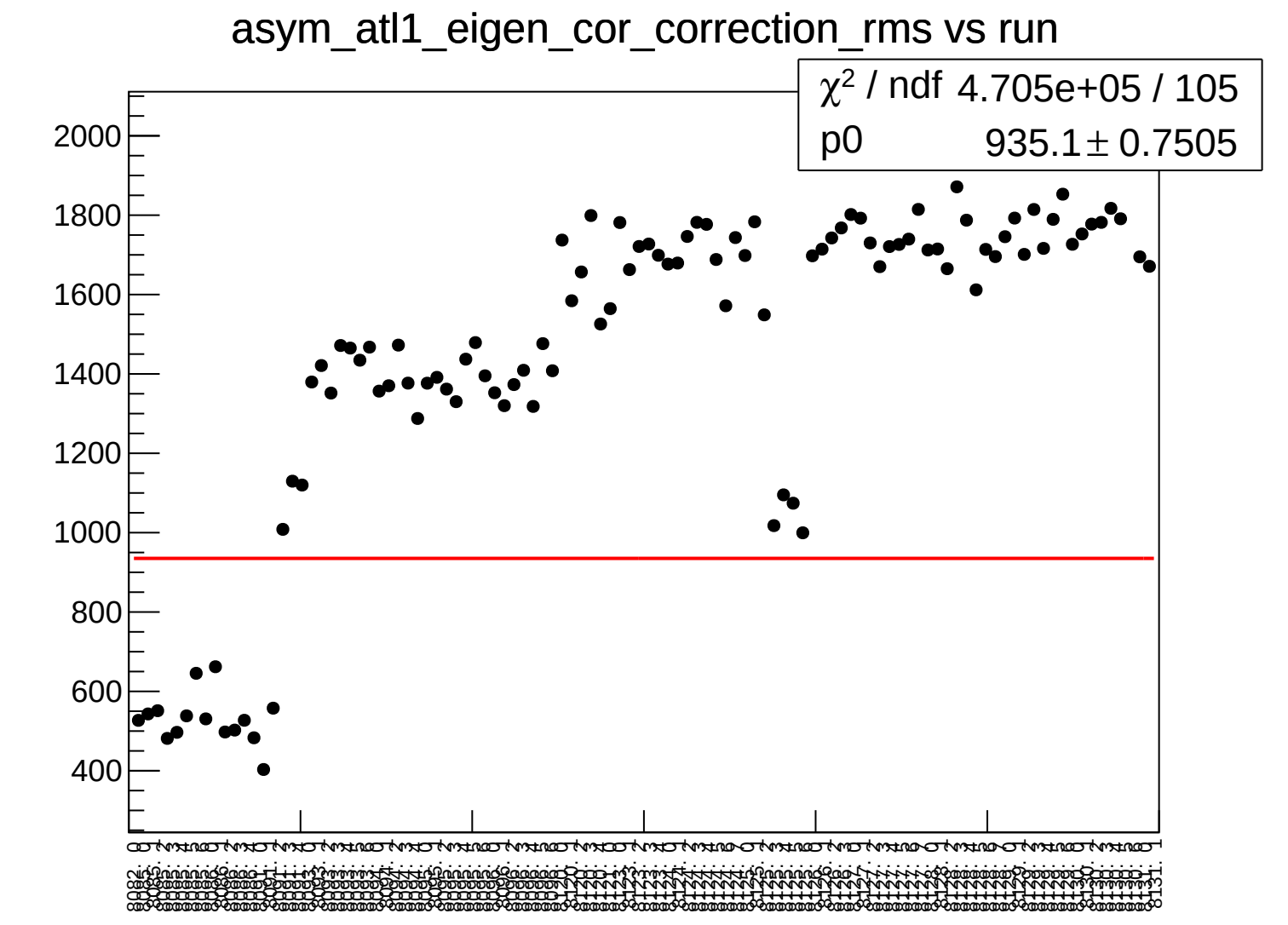

eigen_cor_asym_atl1_mean vs run
×10^3
χ^2 / ndf 78.13 / 105
p0 1925 ± 2386
100
80
60
40
20
0
−20
−40
−60
−80
pull
Entries 106
Mean −42.71
Std Dev 63.73
2
1
0
−1
−2

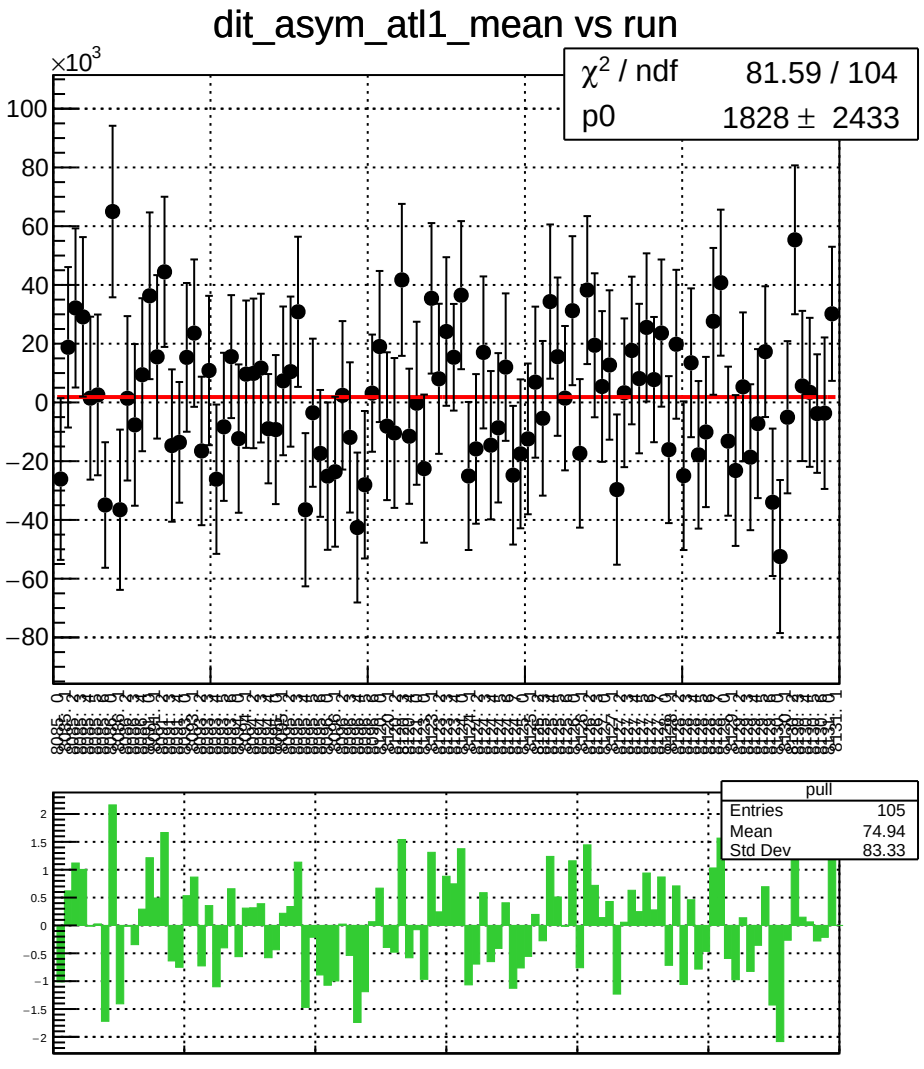

pull1D
Entries 106
Mean 0.005935
Std Dev 0.8585
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

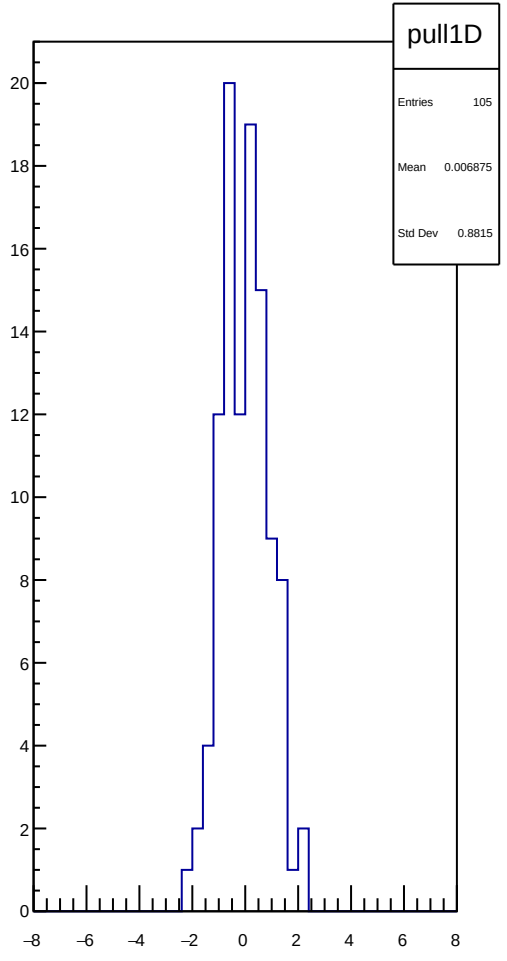

eigen_cor_asym_atl1_rms vs run
χ² / ndf 301.3 / 105
p0 2399 ± 1.687
2520
2500
2480
2460
2440
2420
2400
2380
2360
2340
2320

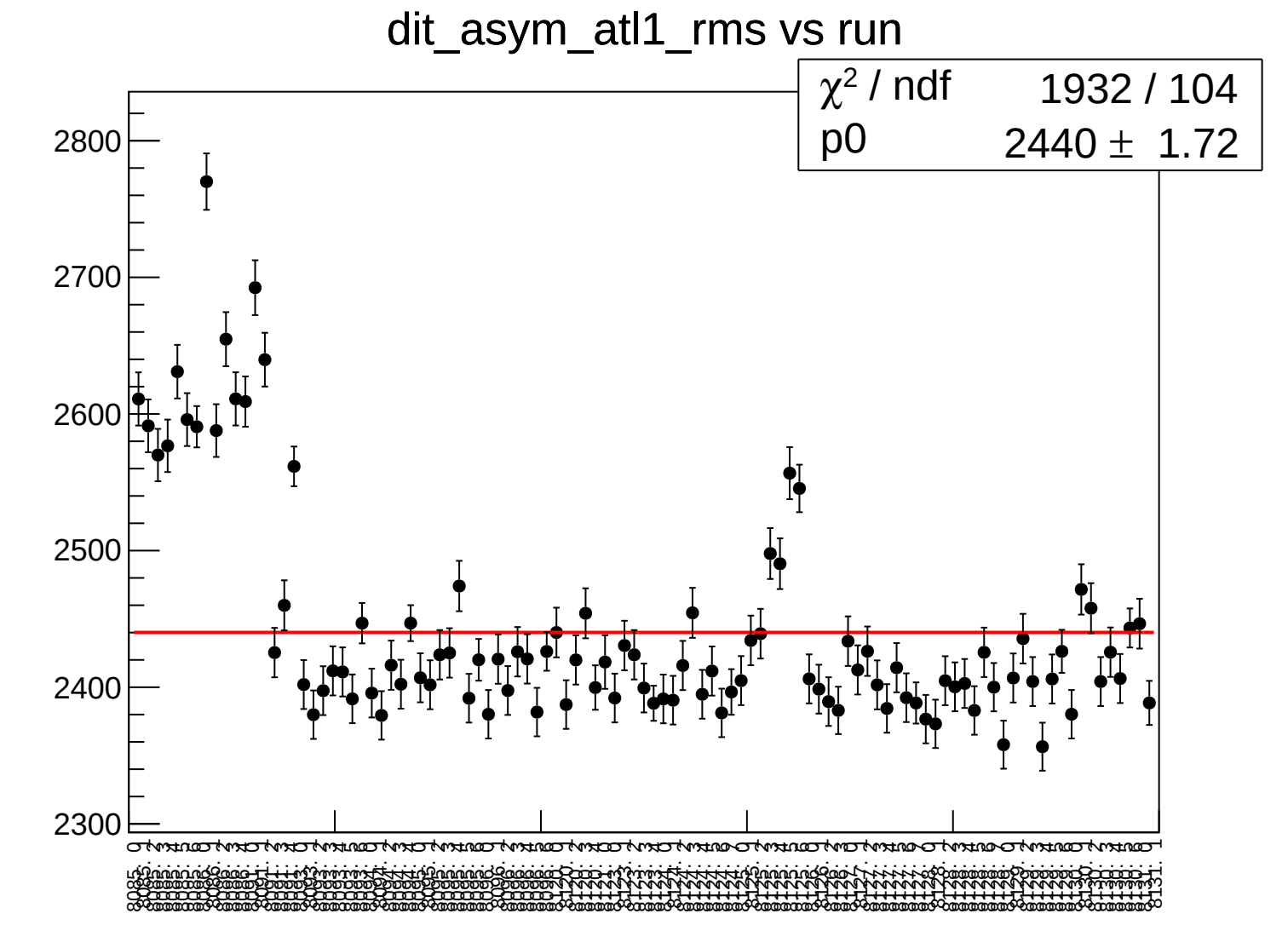

asym_atl1_eigen_cor_correction_mean vs run
χ² / ndf 99.71 / 105
p0 −1373 ± 1061
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean 28.64
Std Dev 0
2
1
0
−1
−2

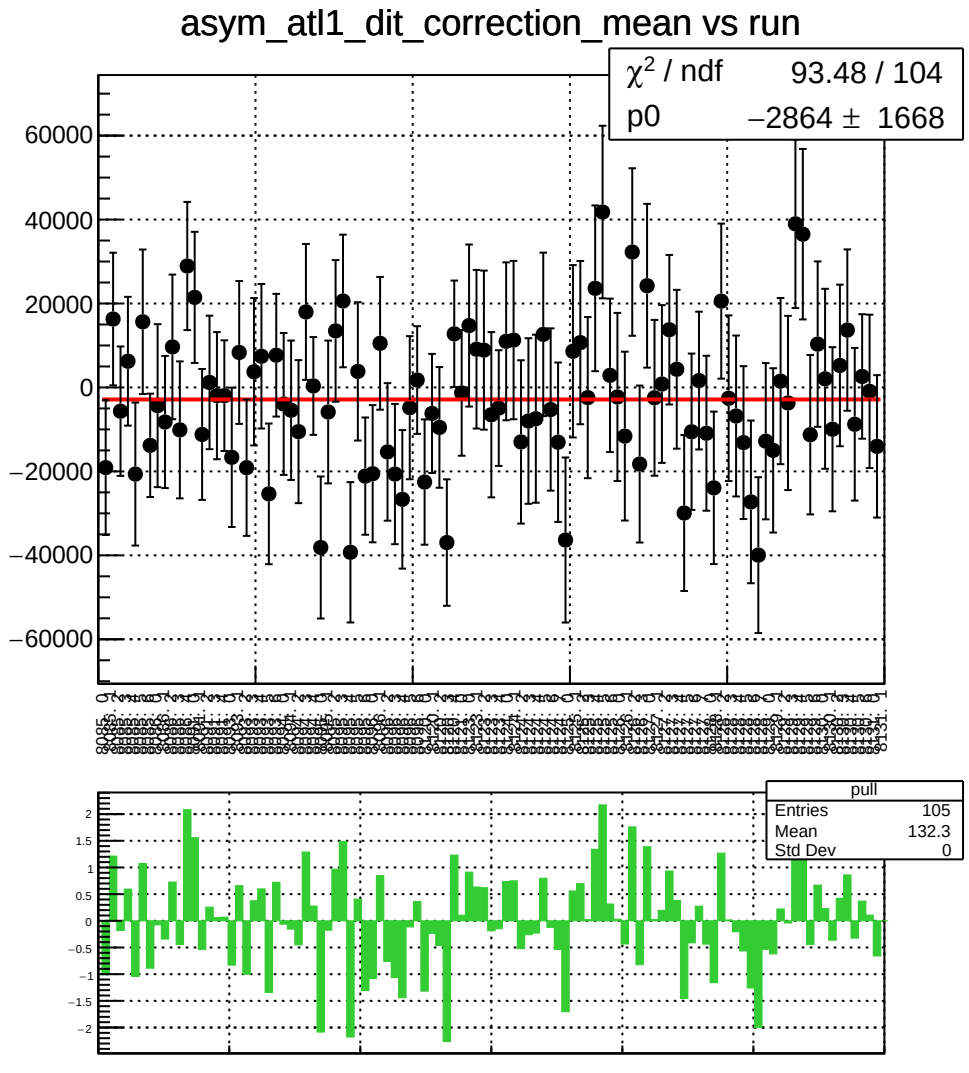

pull1D
Entries 106
Mean −0.06487
Std Dev 0.9677
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

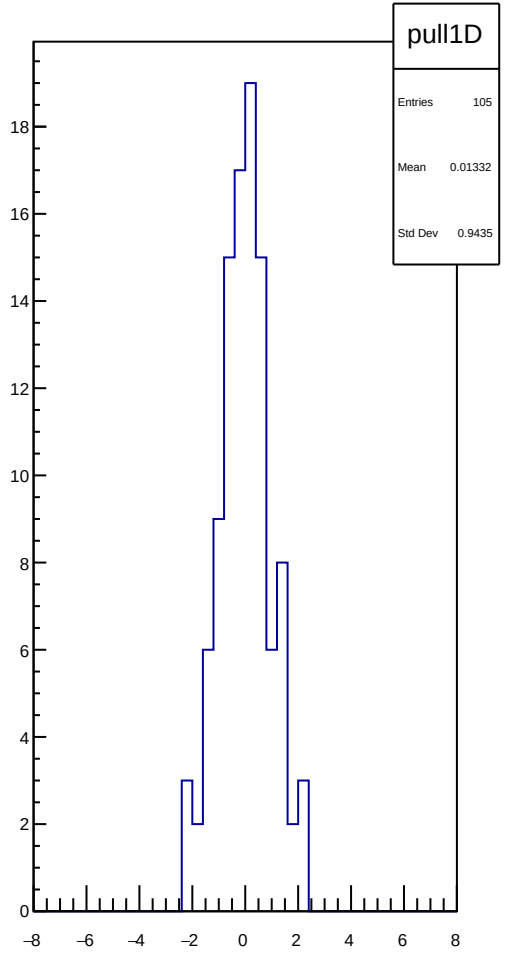

asym_atl1_eigen_cor_correction_rms vs run
χ² / ndf 4.705e+05 / 105
p0 935.1 ± 0.7505
2000
1800
1600
1400
1200
1000
800
600
400

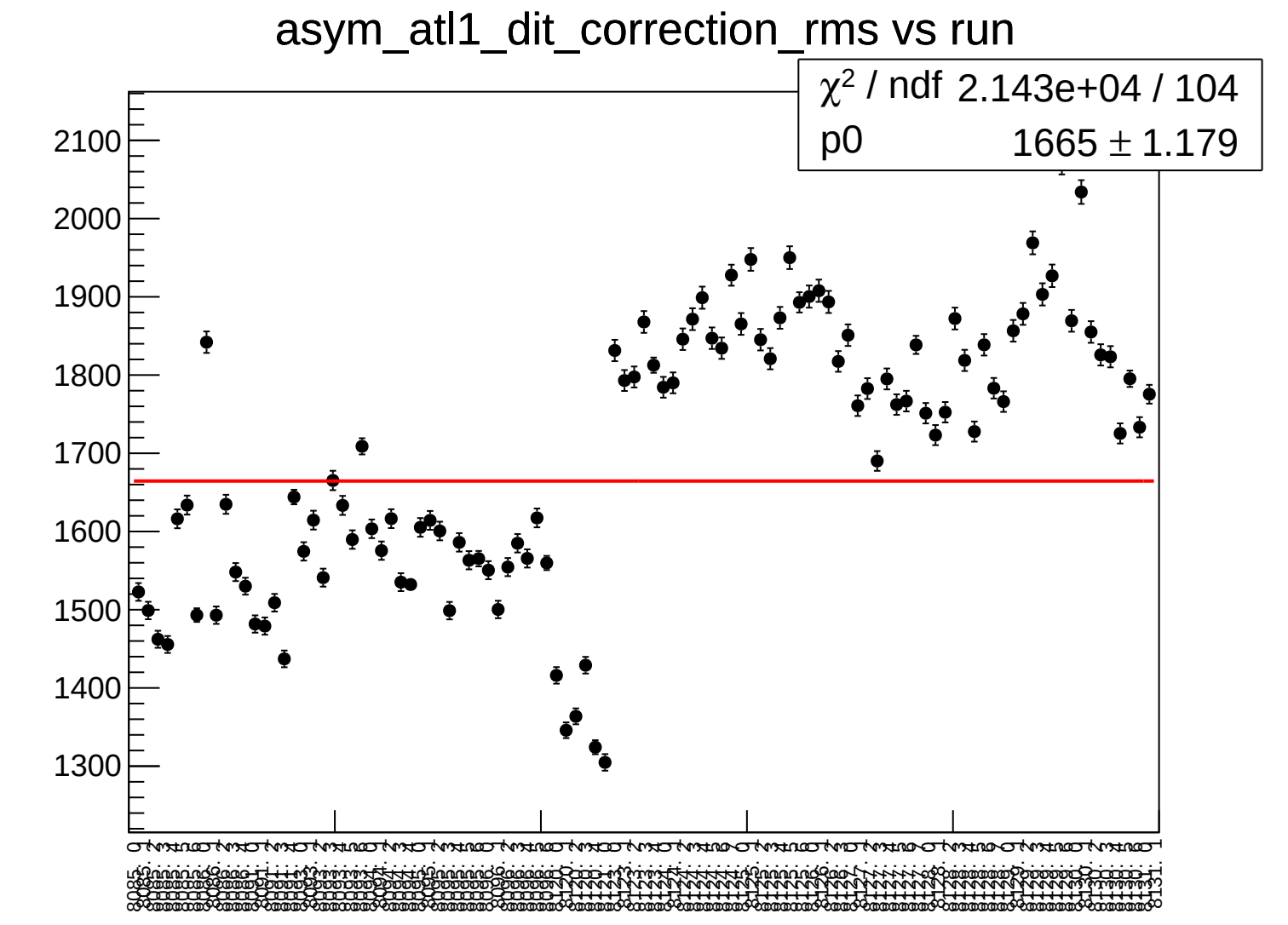

dit_asym_atl1_mean vs run
×10^3
χ^2 / ndf 81.59 / 104
p0 1828 ± 2433
pull
Entries 105
Mean 74.94
Std Dev 83.33

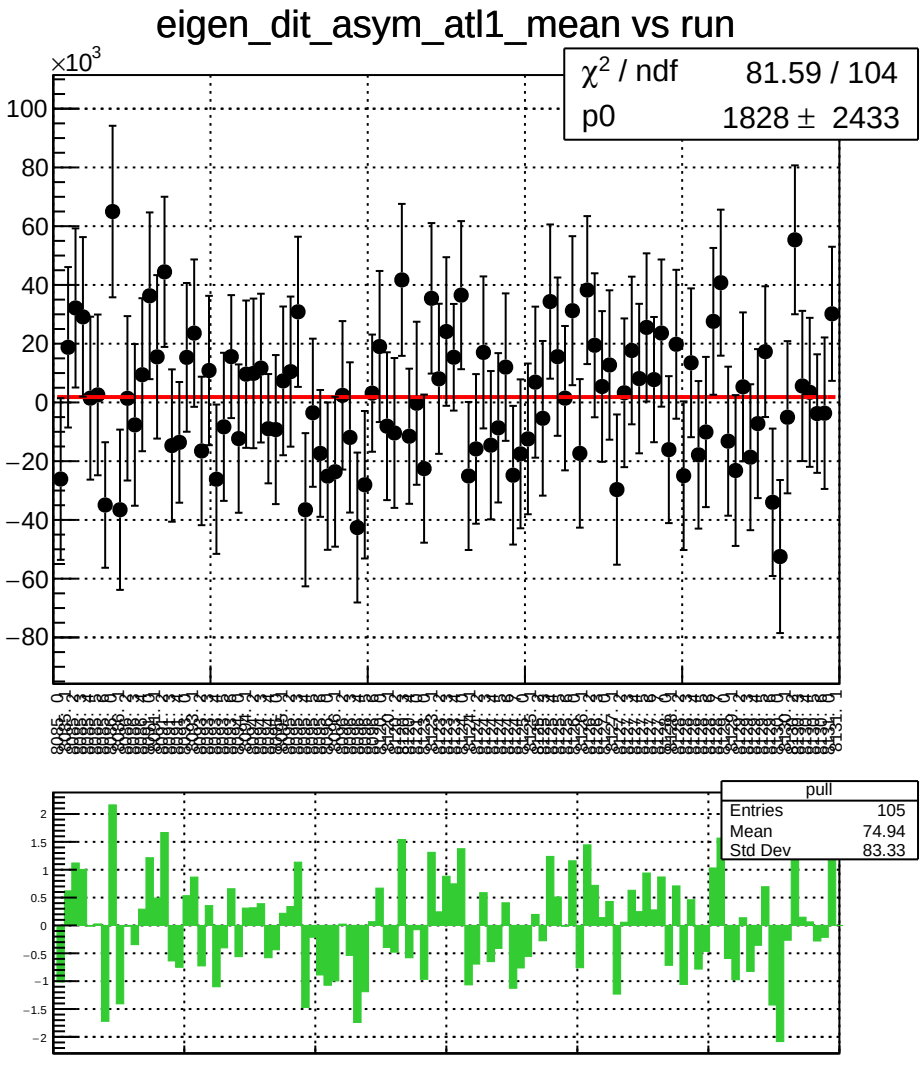

pull1D
Entries 105
Mean 0.006875
Std Dev 0.8815

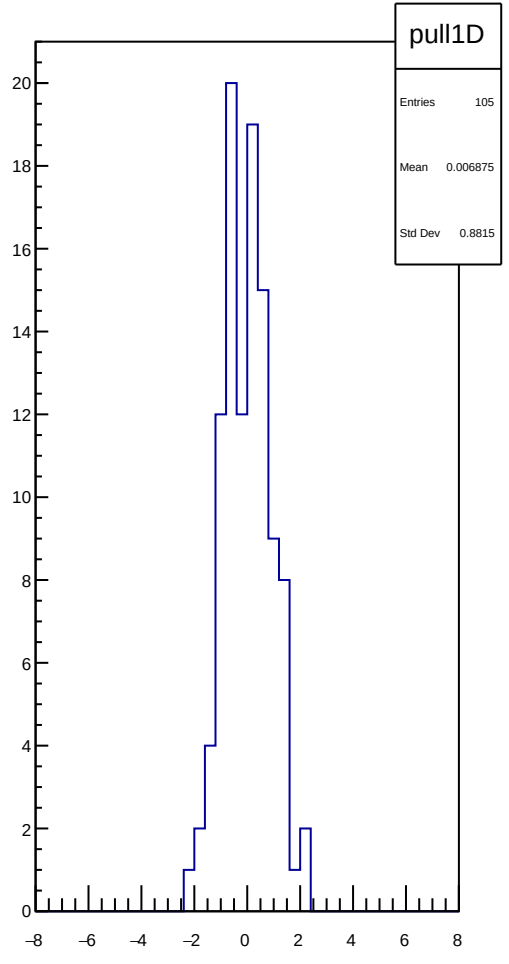

dit_asym_atl1_rms vs run
χ² / ndf 1932 / 104
p0 2440 ± 1.72
2800
2700
2600
2500
2400
2300

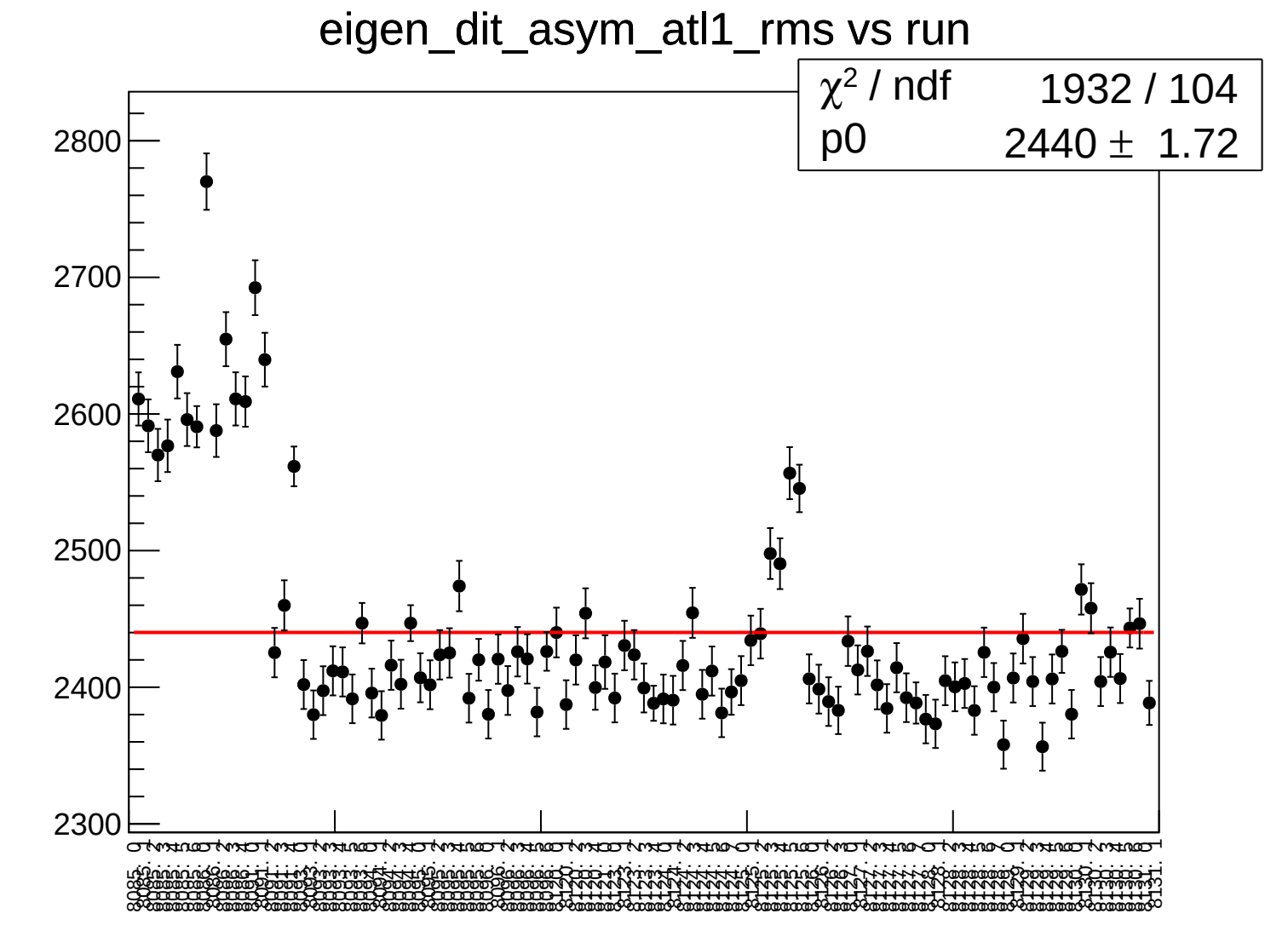

asym_atl1_dit_correction_mean vs run
χ² / ndf 93.48 / 104
p0 −2864 ± 1668
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean 132.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

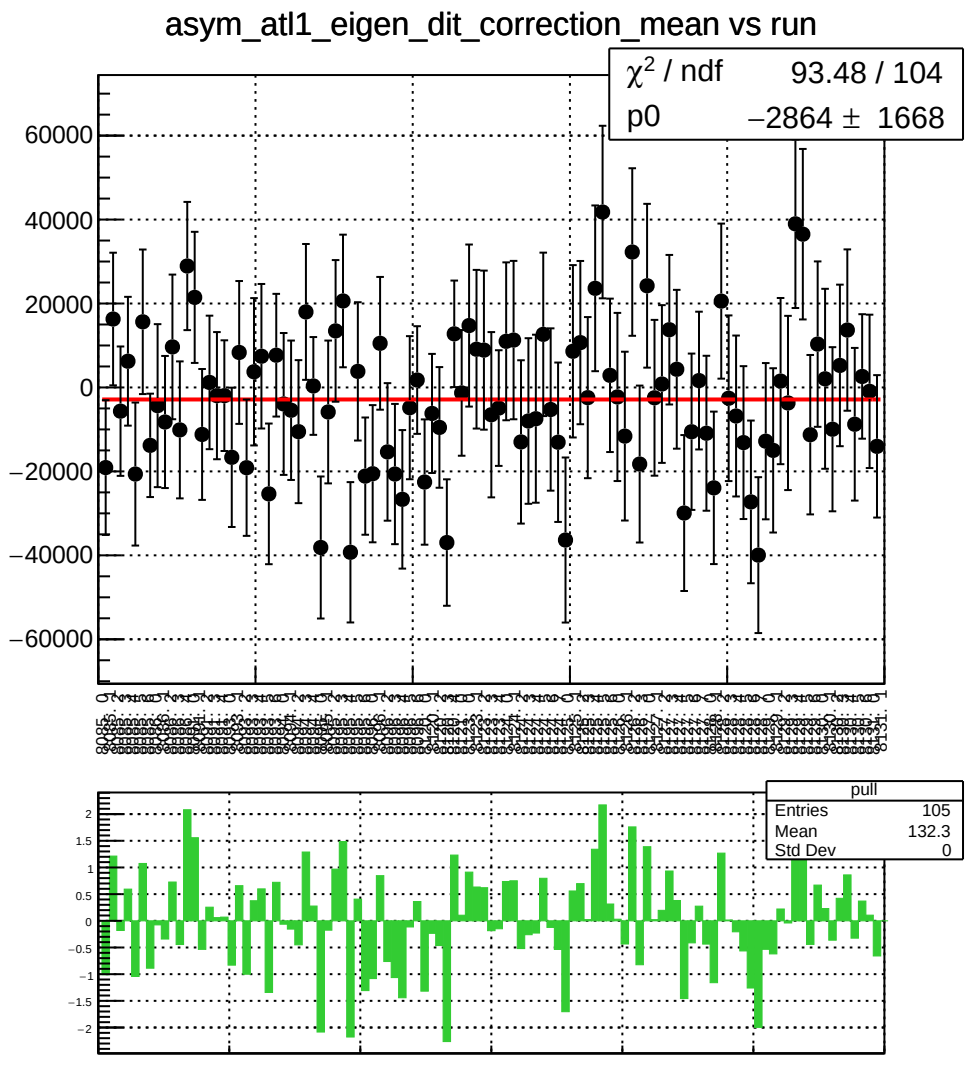

pull1D
Entries 105
Mean 0.01332
Std Dev 0.9435
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

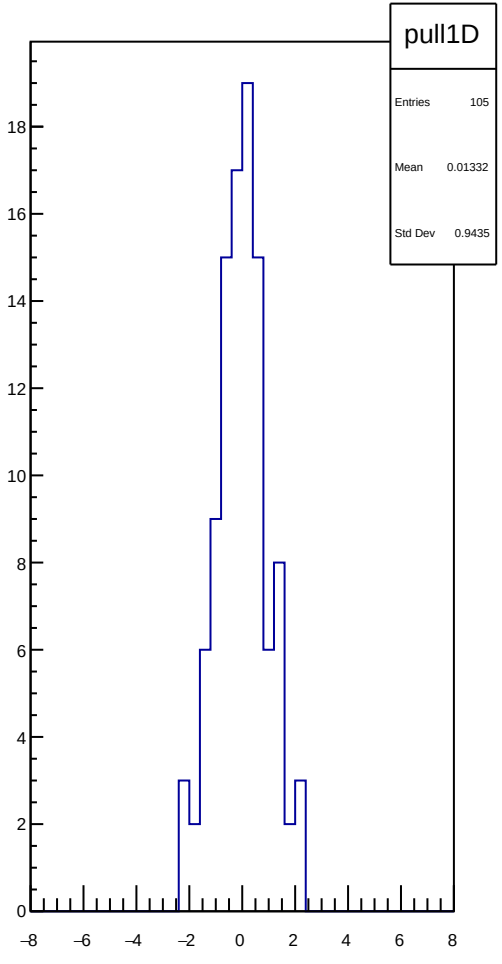

asym_atl1_dit_correction_rms vs run
χ² / ndf 2.143e+04 / 104
p0 1665 ± 1.179
2100
2000
1900
1800
1700
1600
1500
1400
1300

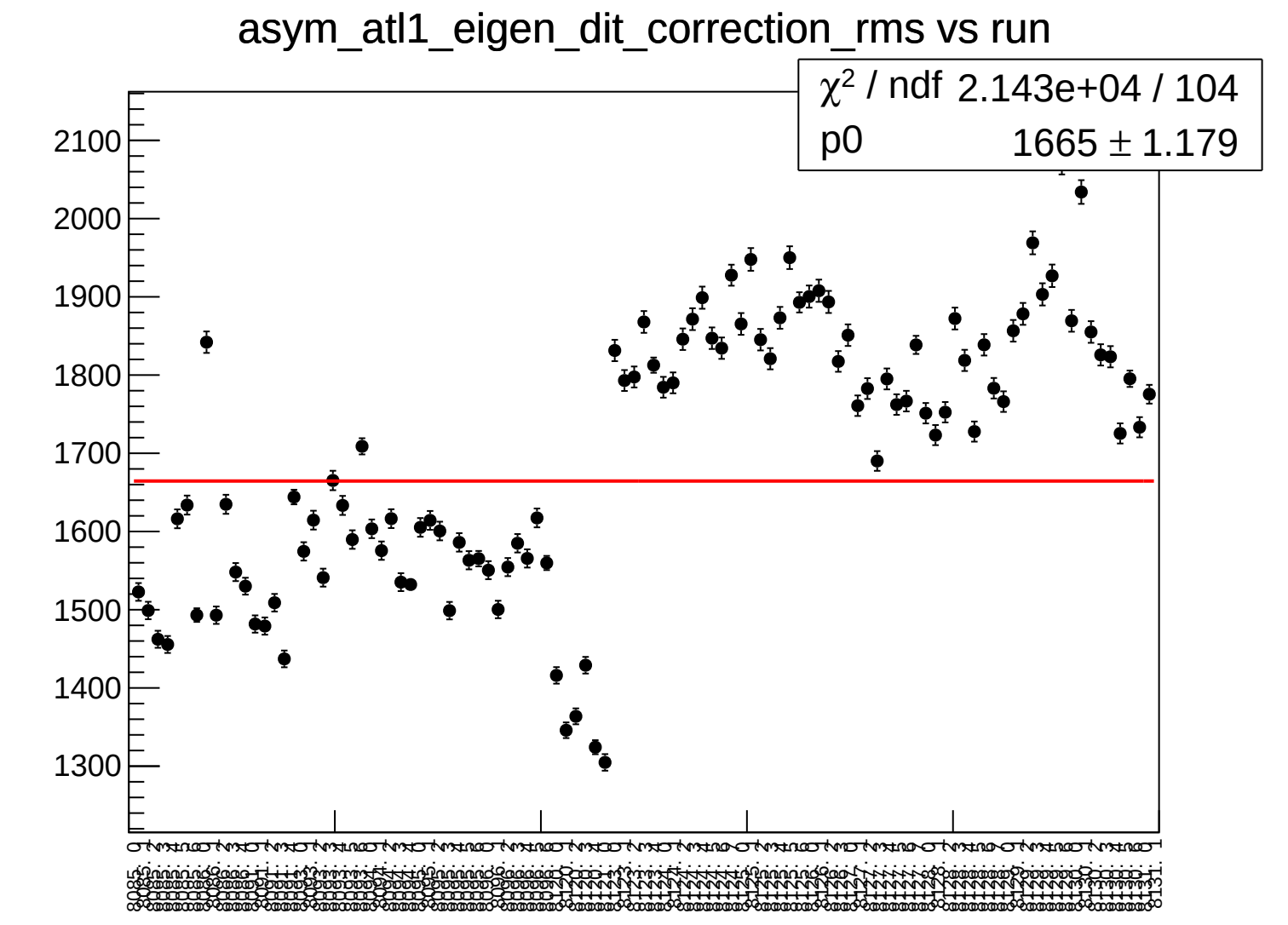

eigen_dit_asym_atl1_mean vs run
×10^3
χ^2 / ndf 81.59 / 104
p0 1828 ± 2433
pull
Entries 105
Mean 74.94
Std Dev 83.33

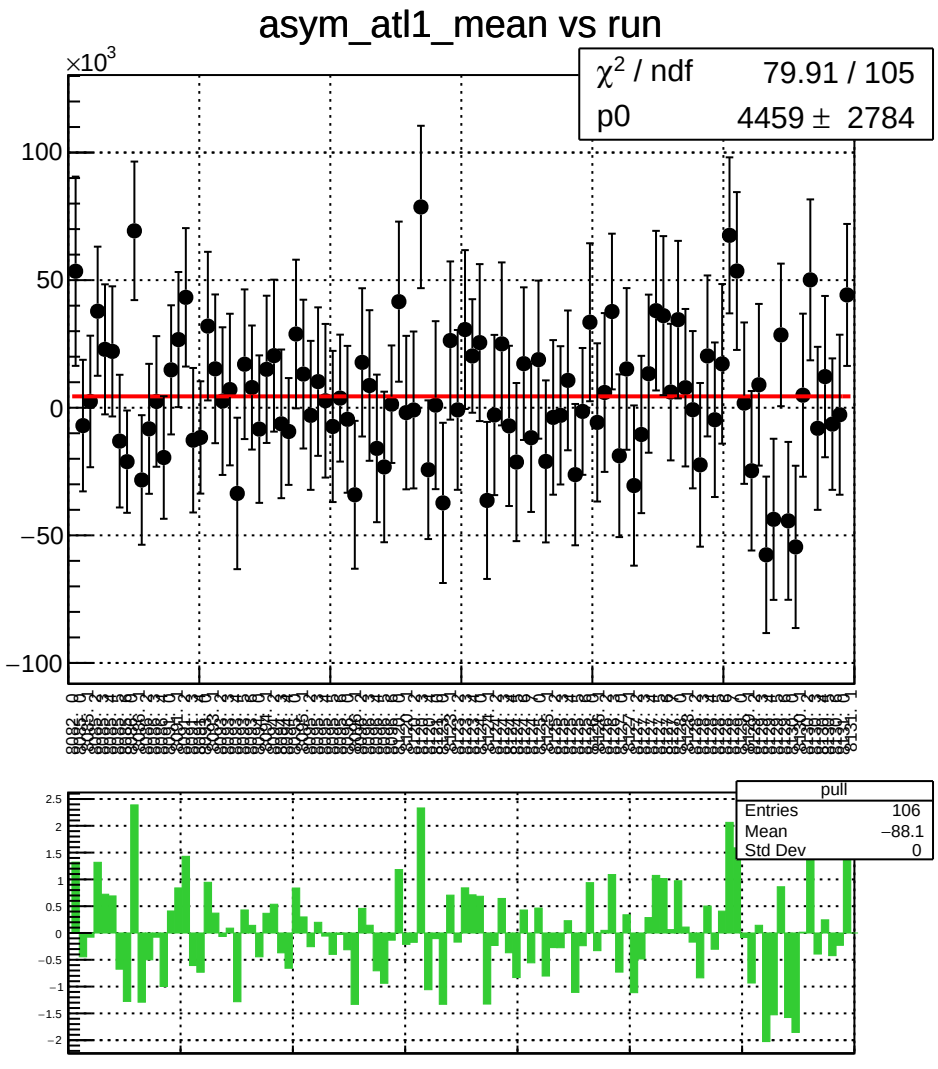

pull1D
Entries 105
Mean 0.006875
Std Dev 0.8815

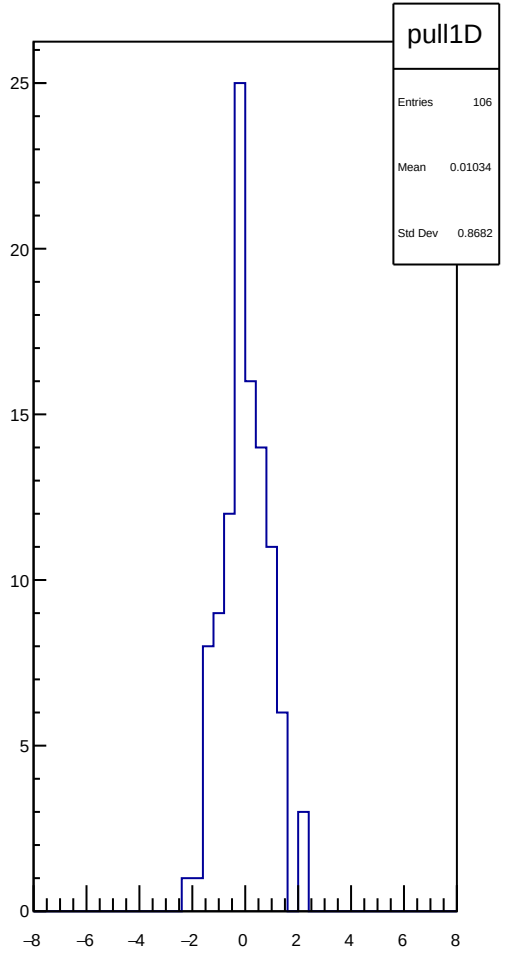

eigen_dit_asym_atl1_rms vs run
χ² / ndf 1932 / 104
p0 2440 ± 1.72
2800
2700
2600
2500
2400
2300

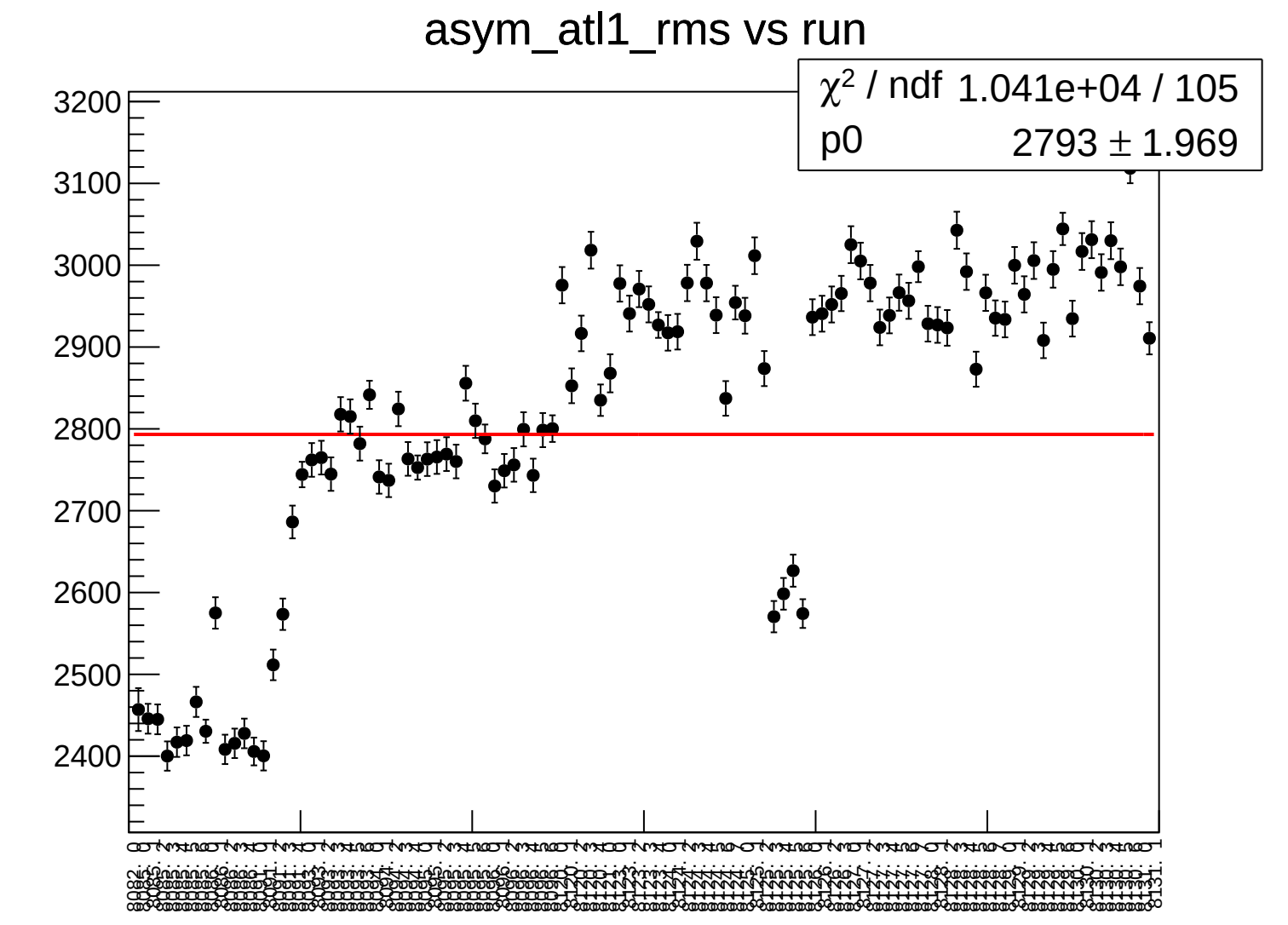

asym_atl1_eigen_dit_correction_mean vs run
χ² / ndf 93.48 / 104
p0 −2864 ± 1668
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean 132.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

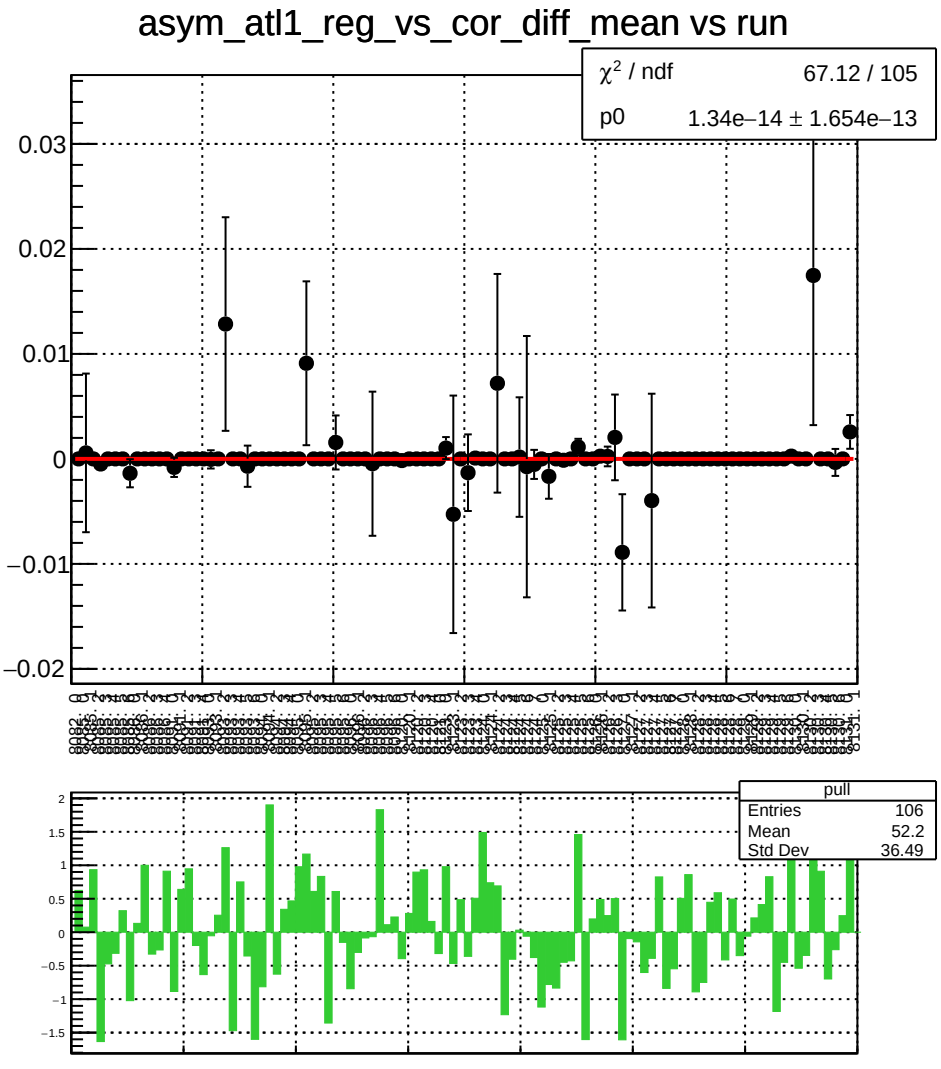

pull1D
Entries 105
Mean 0.01332
Std Dev 0.9435
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

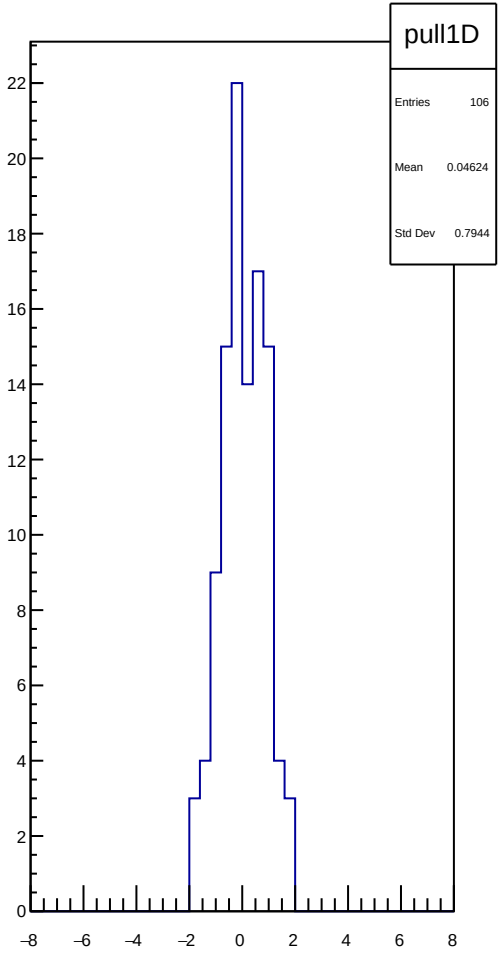

asym_atl1_eigen_dit_correction_rms vs run
χ² / ndf 2.143e+04 / 104
p0 1665 ± 1.179
2100
2000
1900
1800
1700
1600
1500
1400
1300

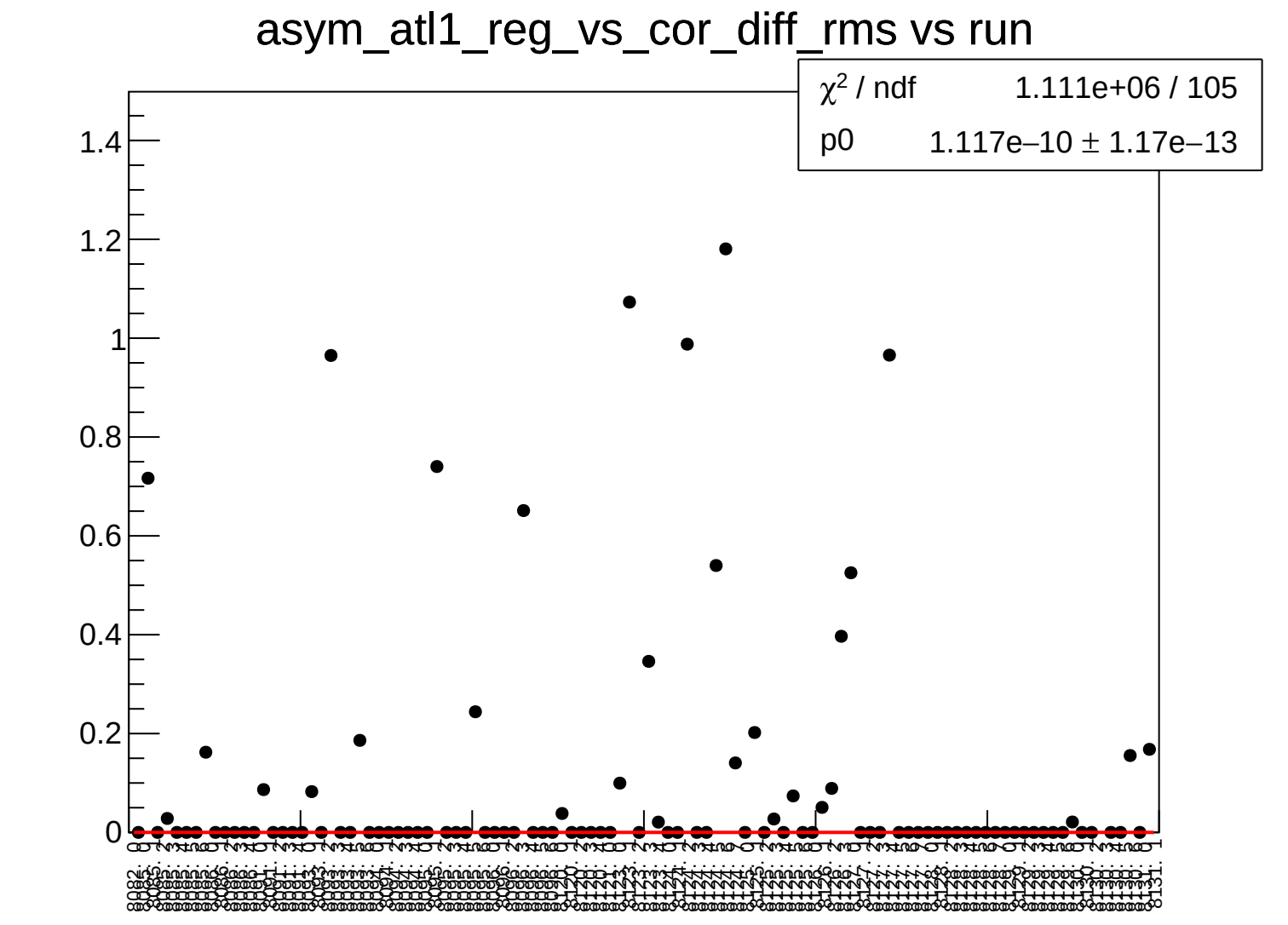

asym_atl1_mean vs run
×10^3
χ^2 / ndf 79.91 / 105
p0 4459 ± 2784
100
50
0
−50
−100
pull
Entries 106
Mean −88.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

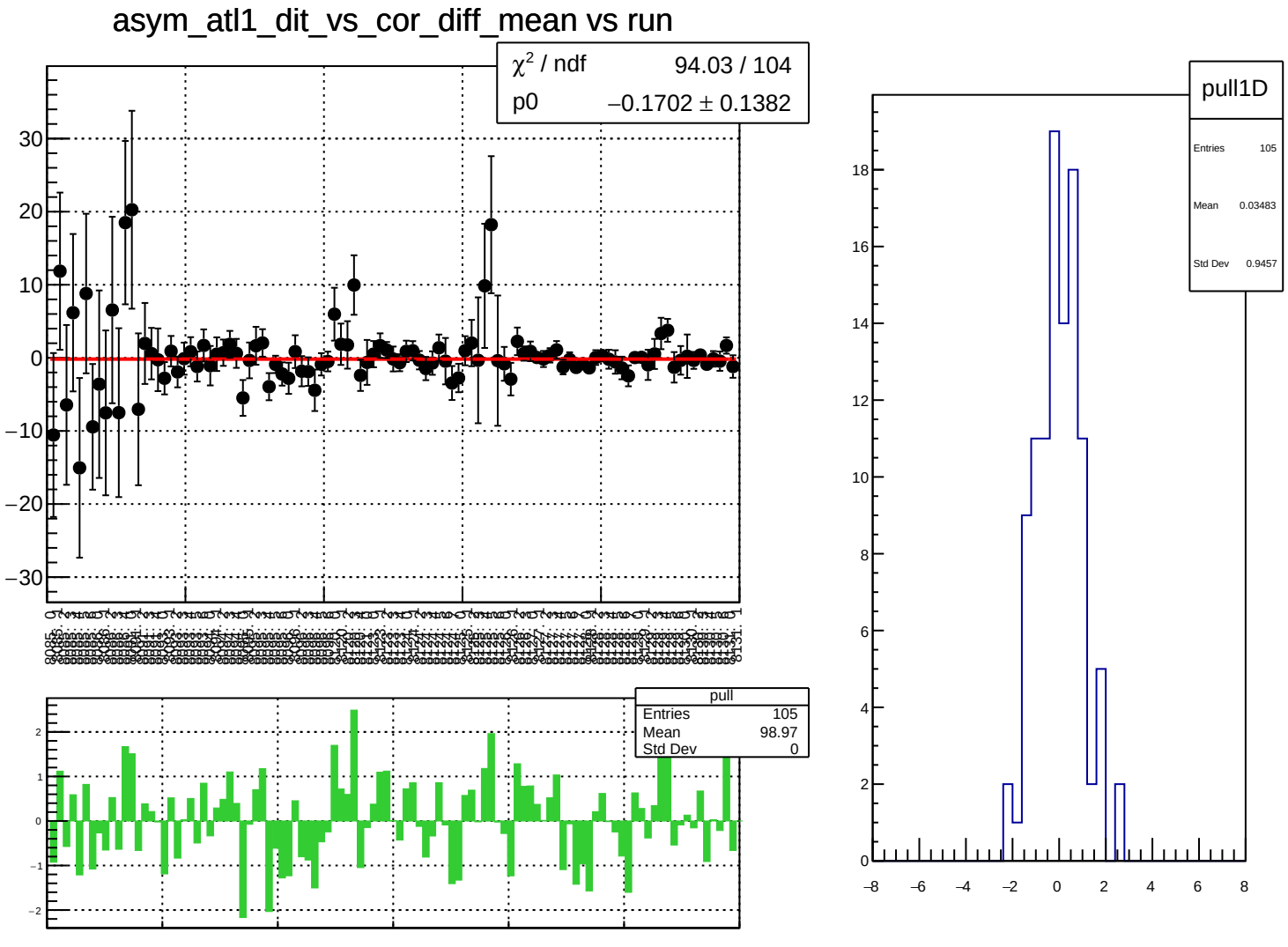

pull1D
Entries 106
Mean 0.01034
Std Dev 0.8682
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

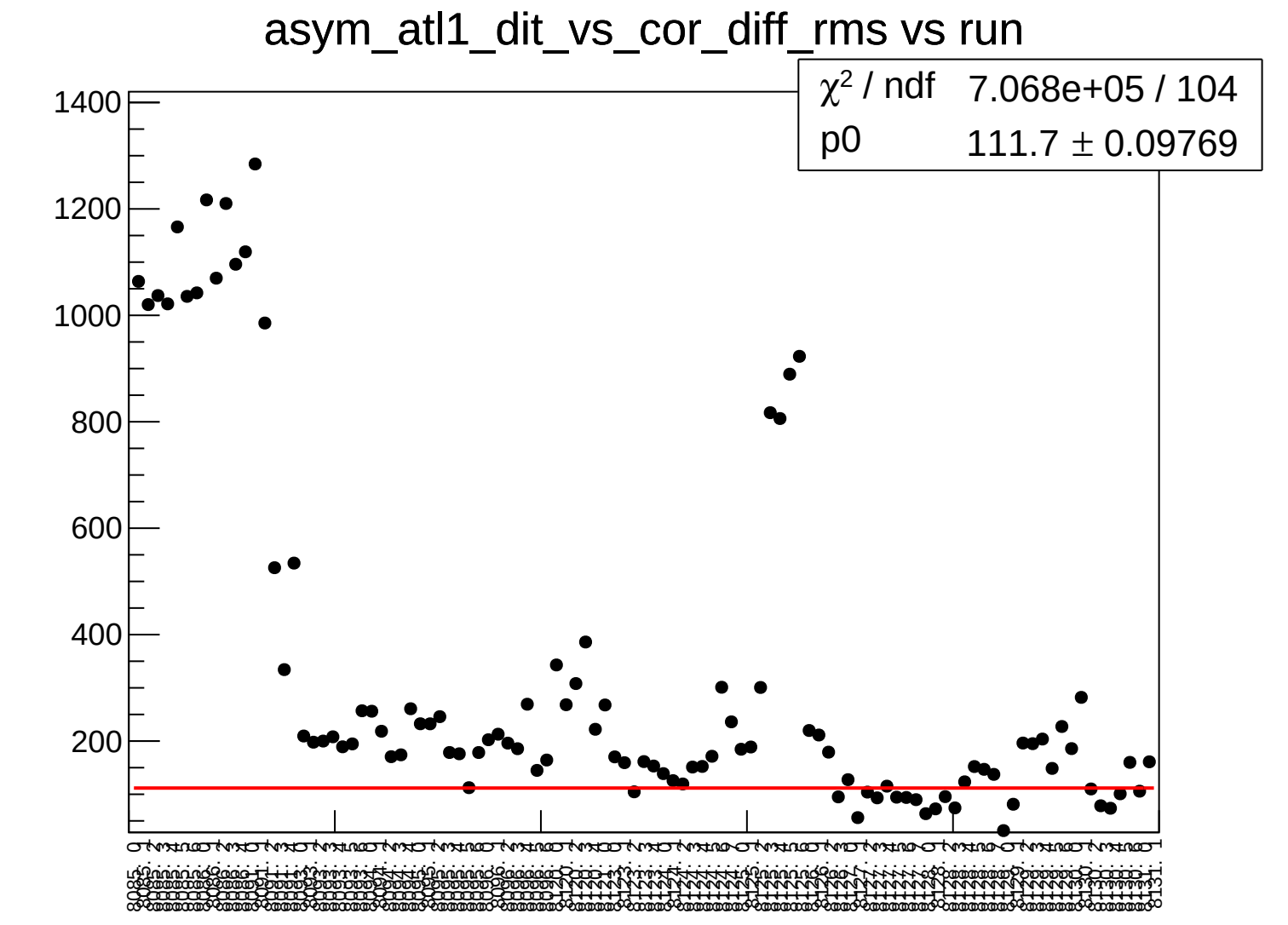

asym_atl1_rms vs run
χ² / ndf 1.041e+04 / 105
p0 2793 ± 1.969
3200
3100
3000
2900
2800
2700
2600
2500
2400

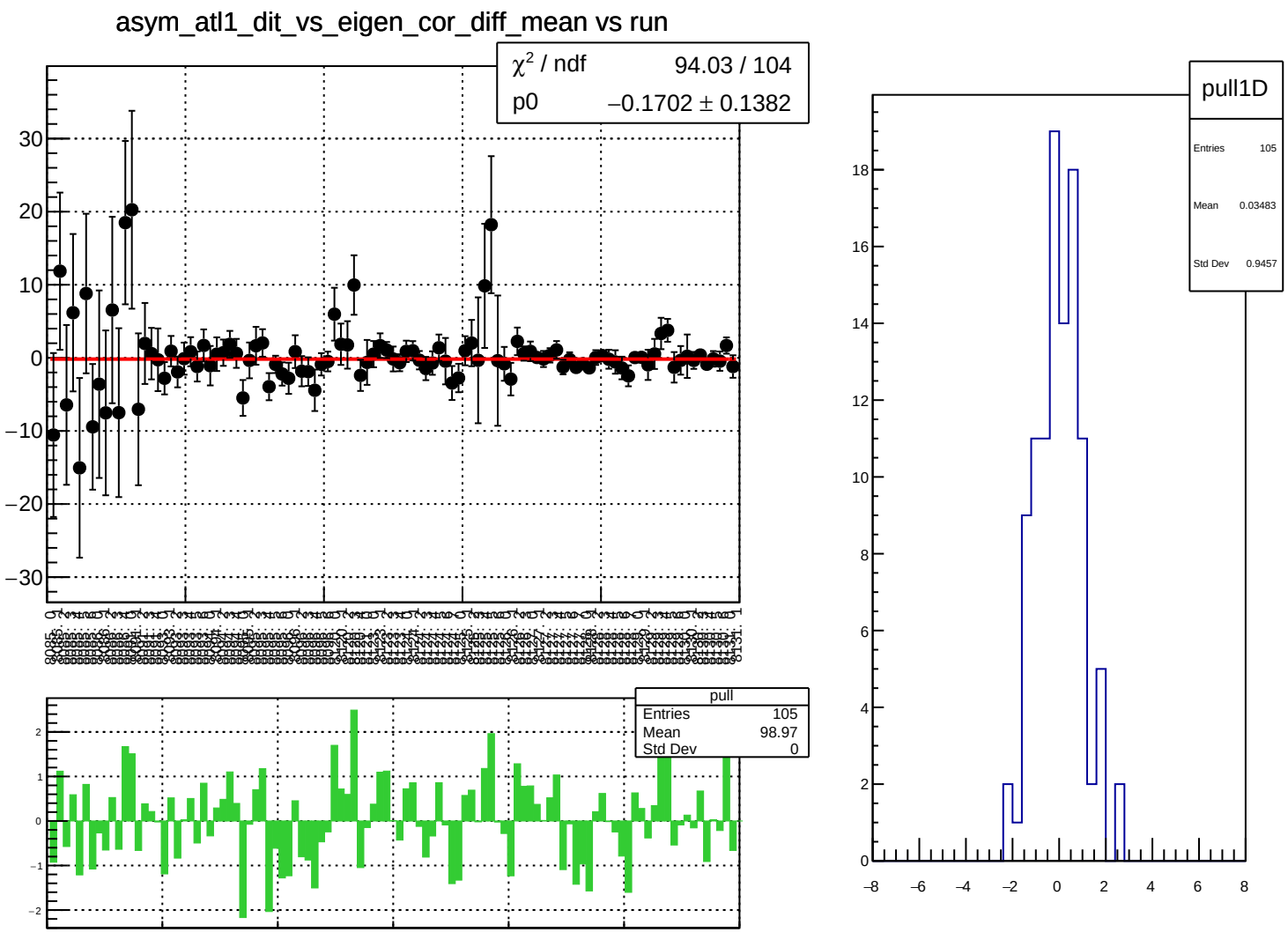

asym_atl1_reg_vs_cor_diff_mean vs run
χ² / ndf 67.12 / 105
p0 1.34e−14 ± 1.654e−13
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 106
Mean 52.2
Std Dev 36.49
2
1.5
1
0.5
0
−0.5
−1
−1.5

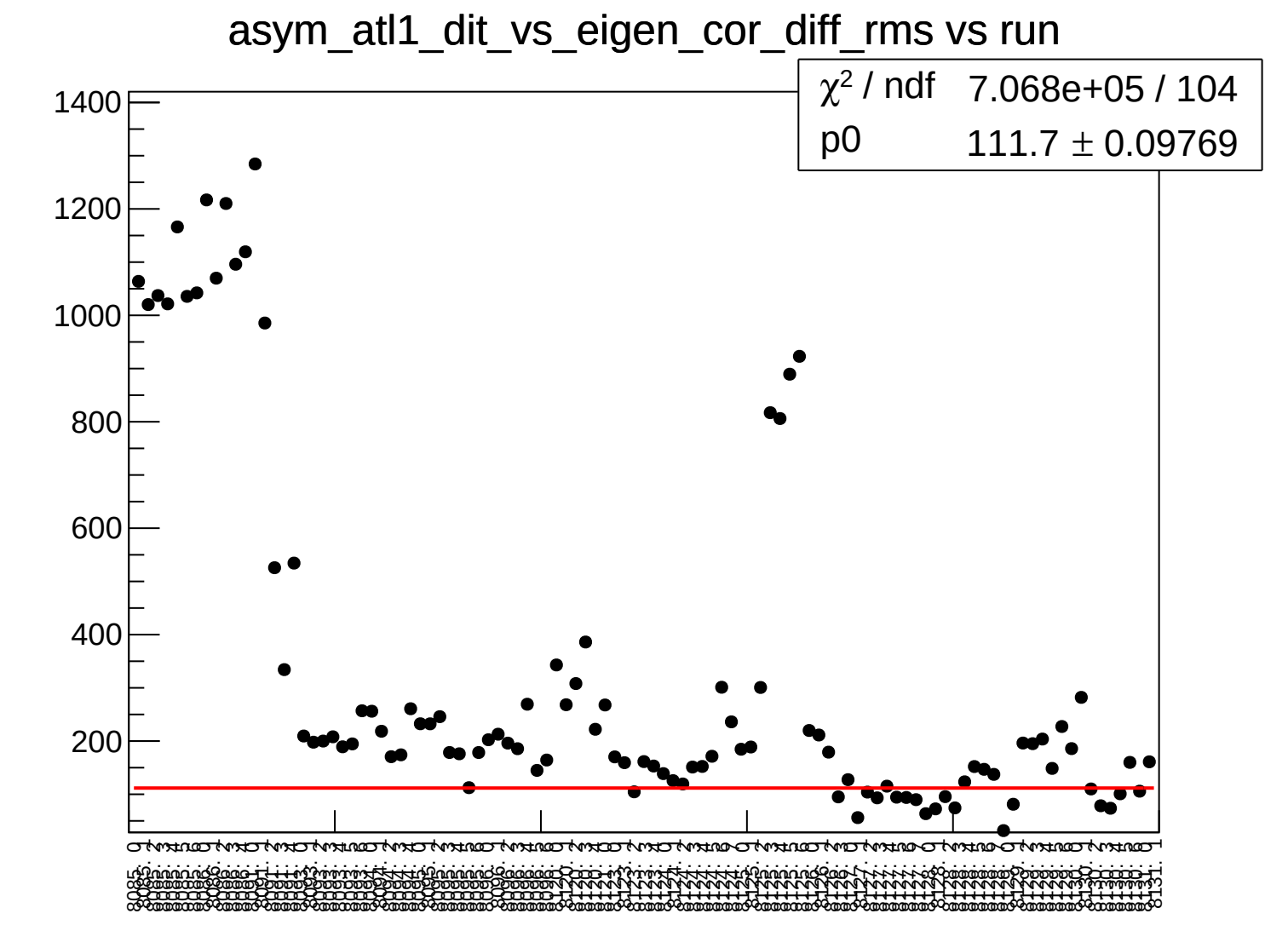

pull1D
Entries 106
Mean 0.04624
Std Dev 0.7944
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

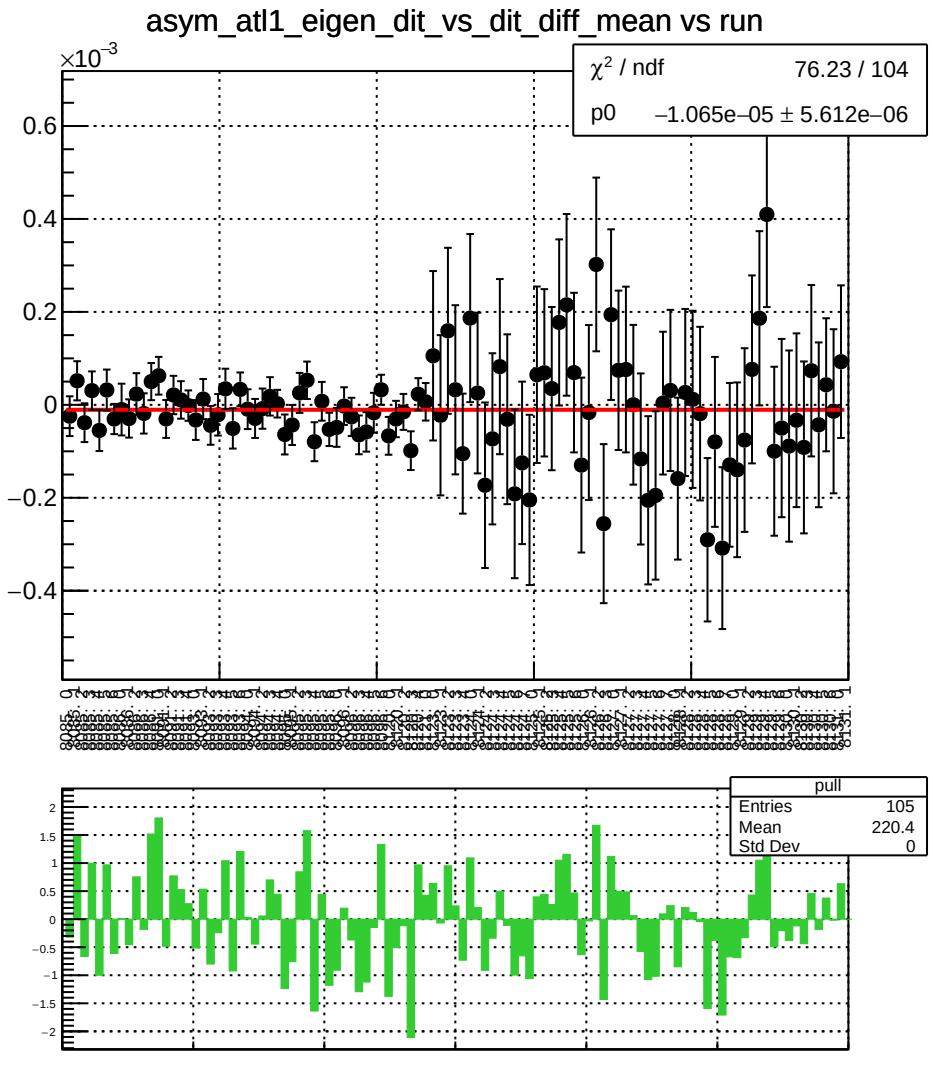

asym_atl1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.111e+06 / 105
p0 1.117e−10 ± 1.17e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

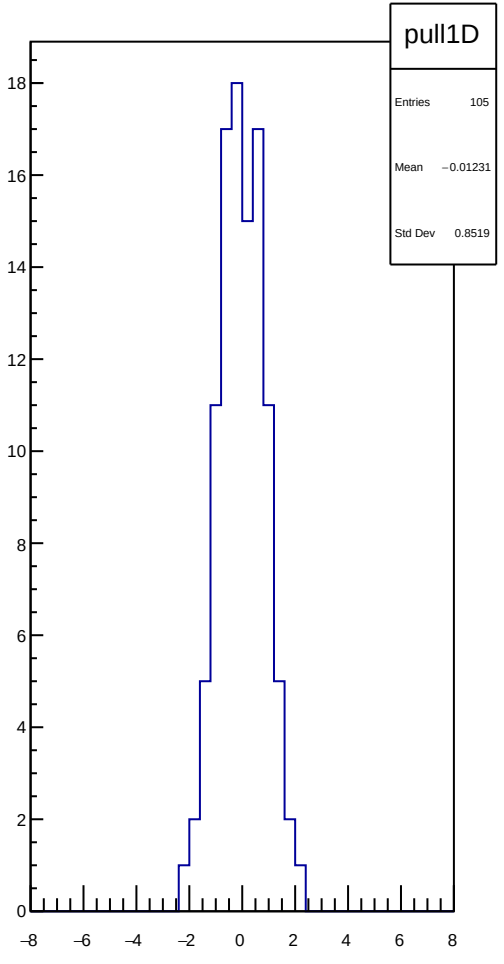

asym_atl1_dit_vs_cor_diff_mean vs run
χ² / ndf 94.03 / 104
p0 −0.1702 ± 0.1382
pull
Entries 105
Mean 98.97
Std Dev 0
pull1D
Entries 105
Mean 0.03483
Std Dev 0.9457

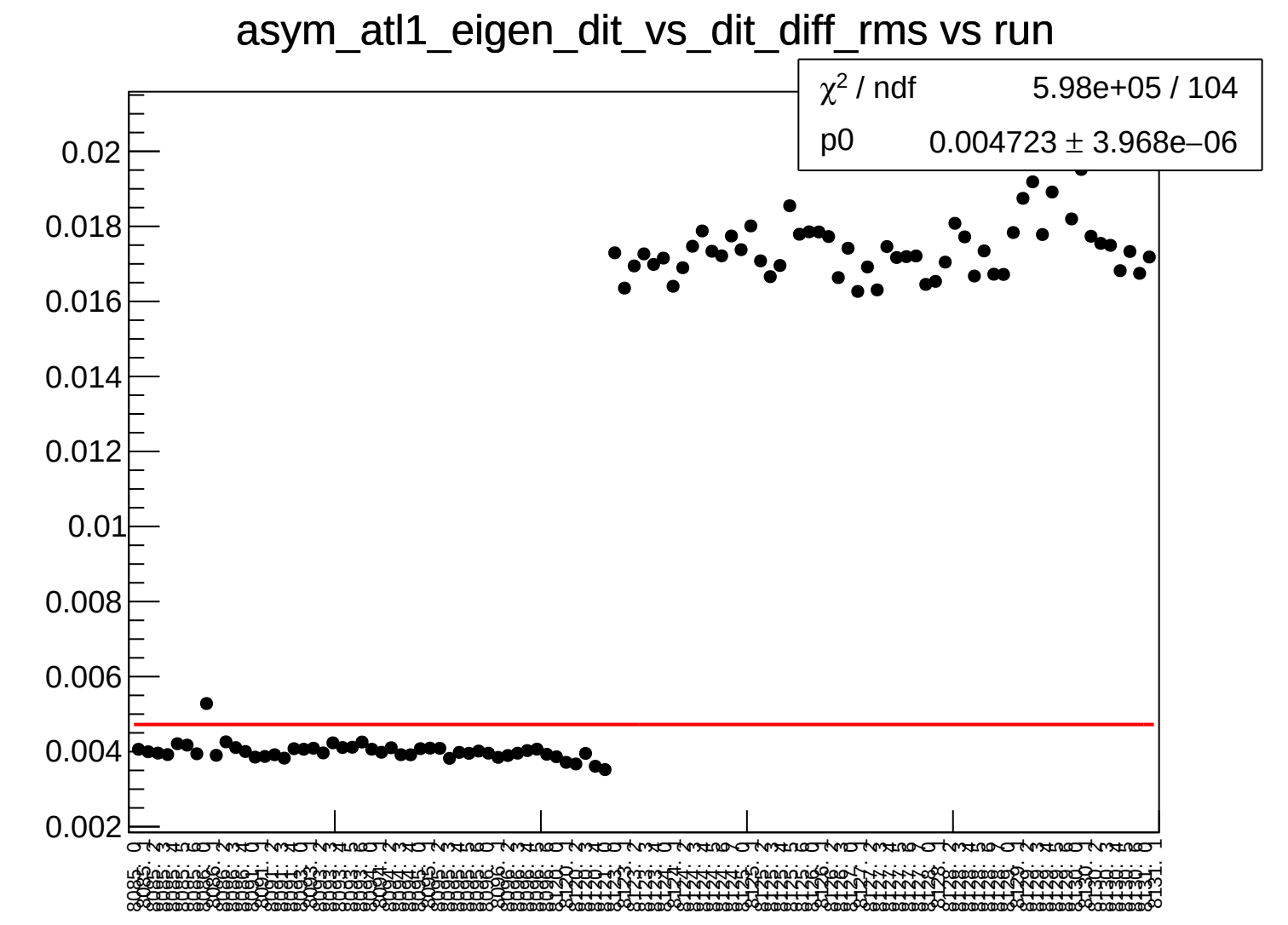

asym_atl1_dit_vs_cor_diff_rms vs run
χ² / ndf 7.068e+05 / 104
p0 111.7 ± 0.09769
1400
1200
1000
800
600
400
200

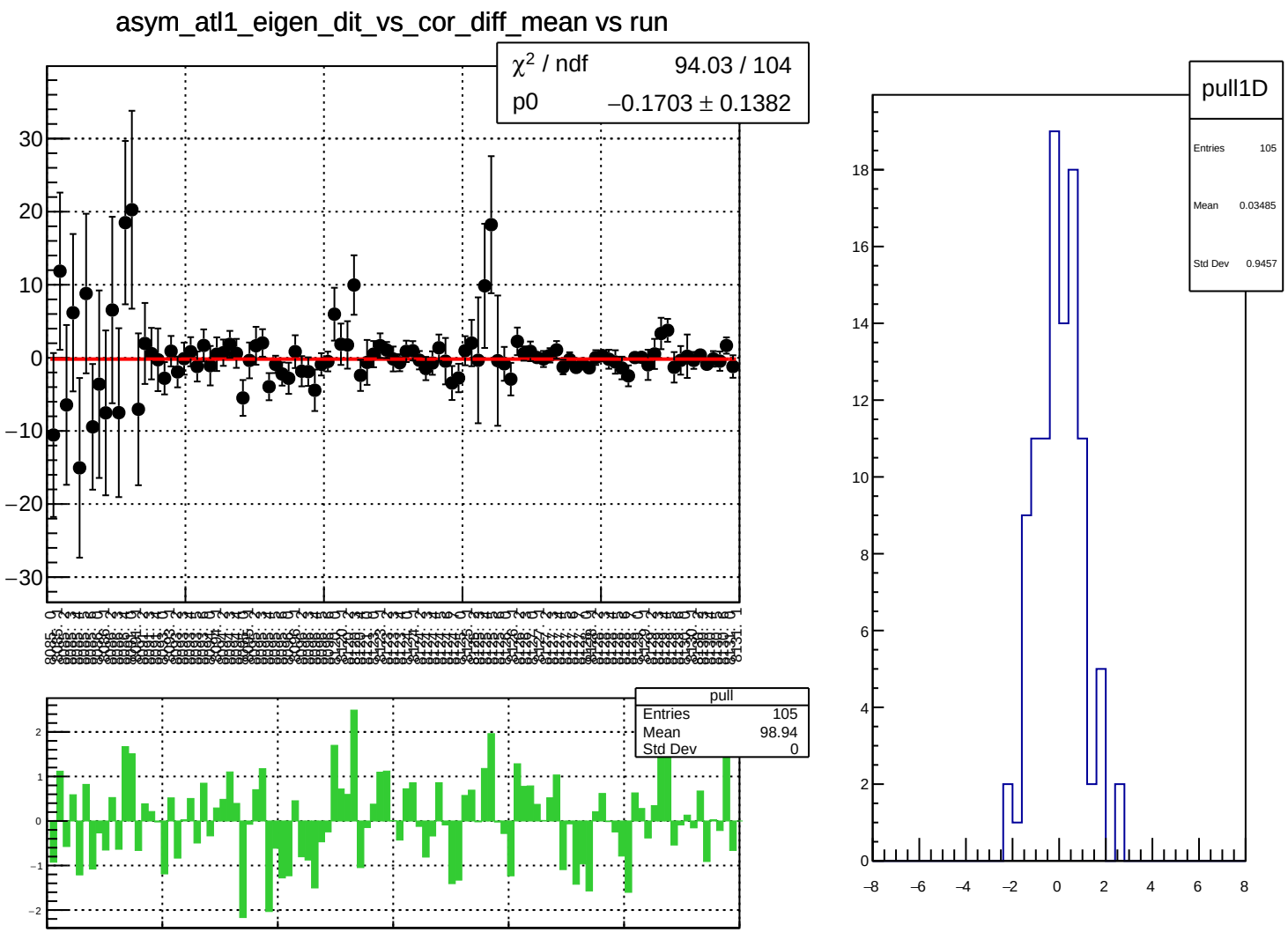

asym_atl1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.03 / 104
p0 −0.1702 ± 0.1382
pull
Entries 105
Mean 98.97
Std Dev 0
pull1D
Entries 105
Mean 0.03483
Std Dev 0.9457

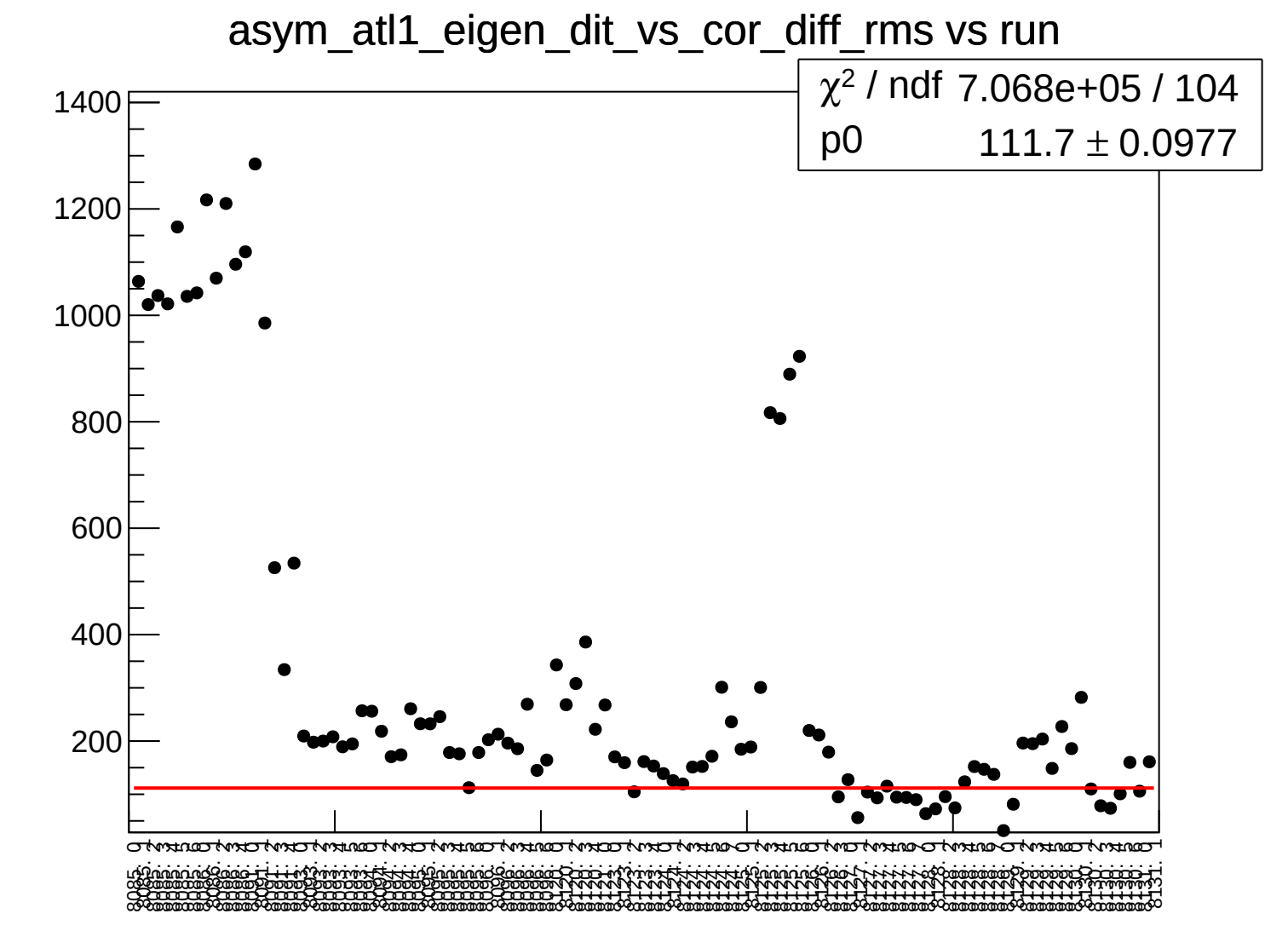

asym_atl1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.068e+05 / 104
p0 111.7 ± 0.09769
1400
1200
1000
800
600
400
200

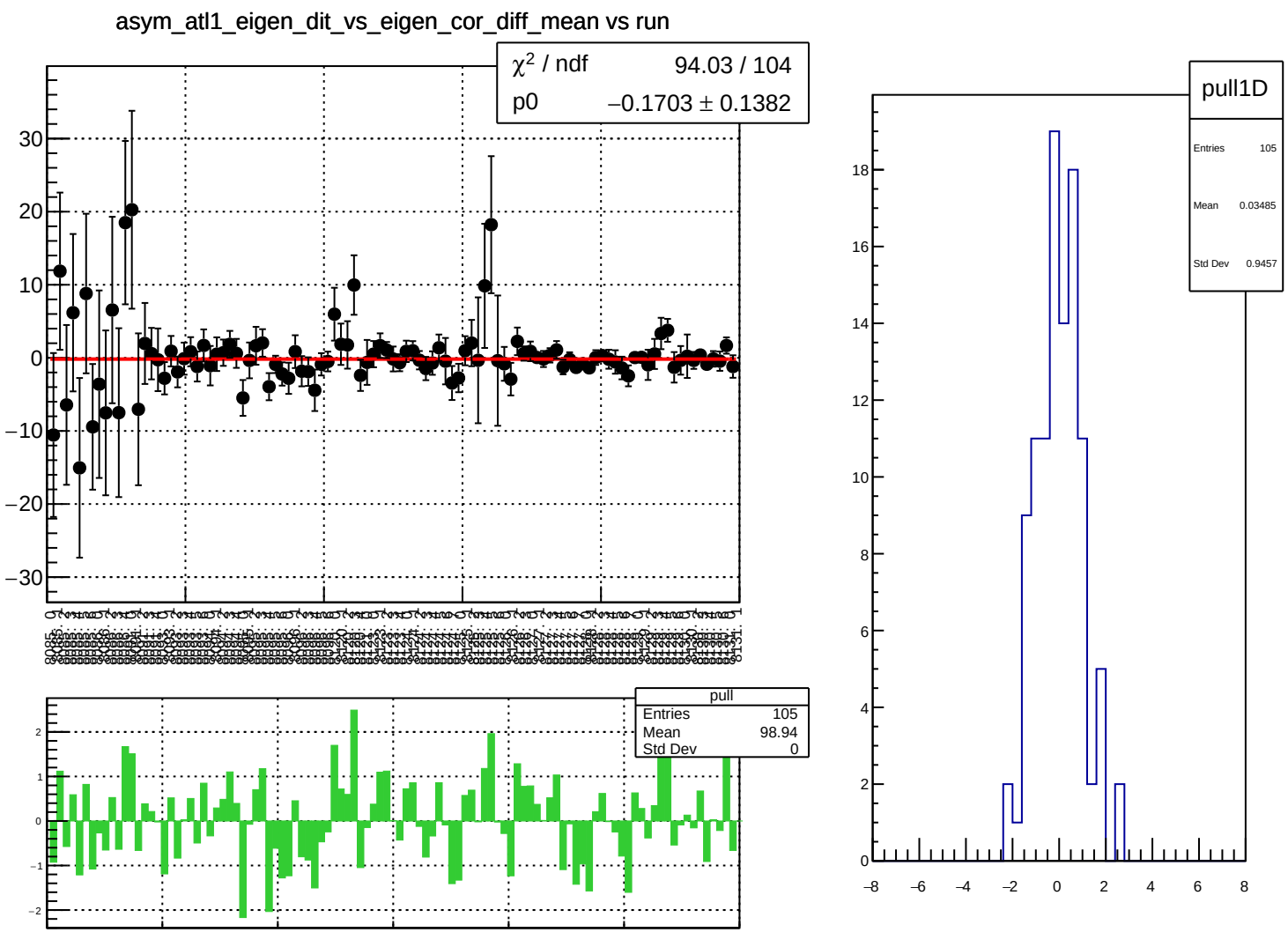

asym_atl1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.23 / 104
p0 −1.065e−05 ± 5.612e−06
pull
Entries 105
Mean 220.4
Std Dev 0

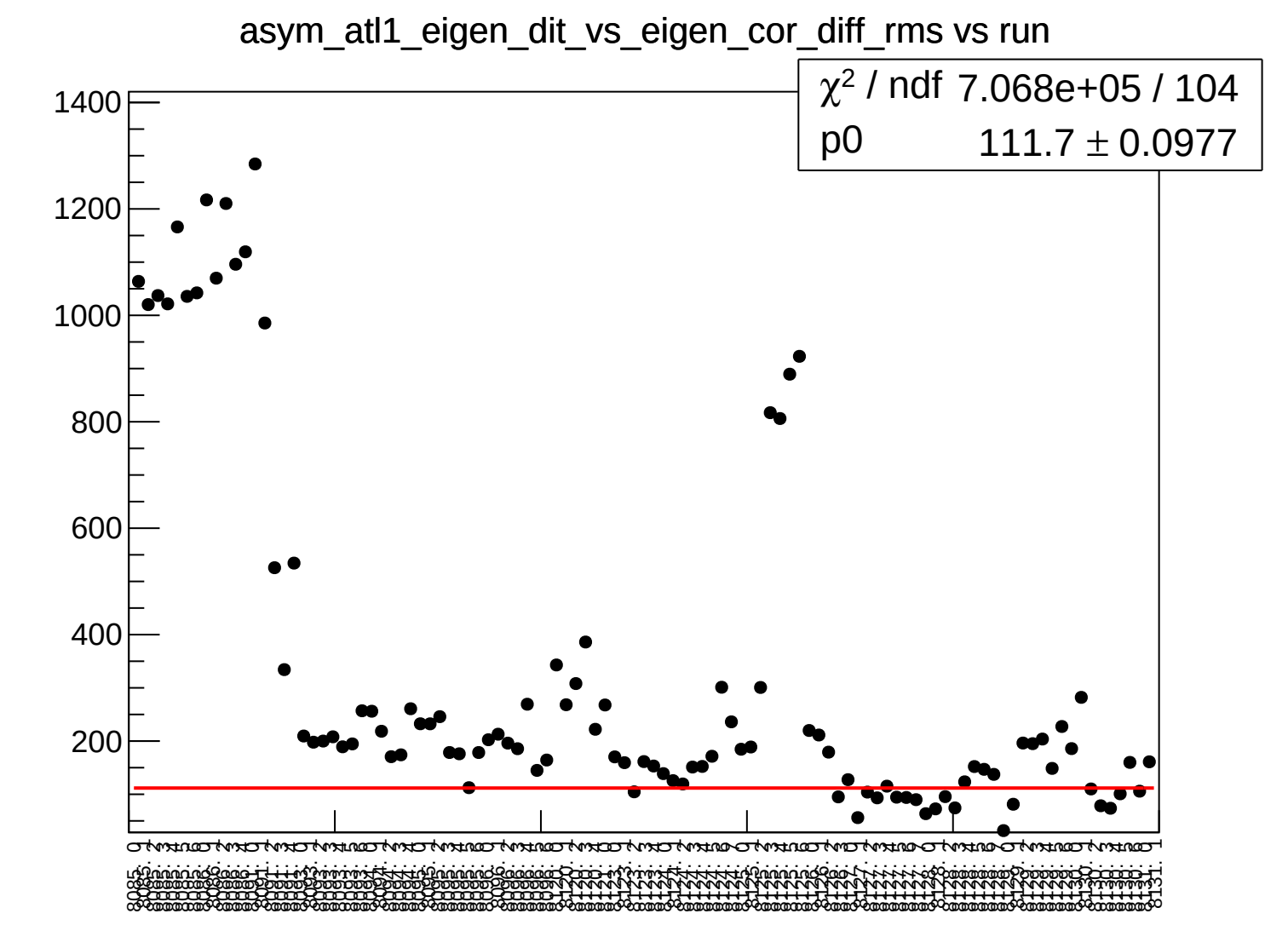

pull1D
Entries 105
Mean −0.01231
Std Dev 0.8519

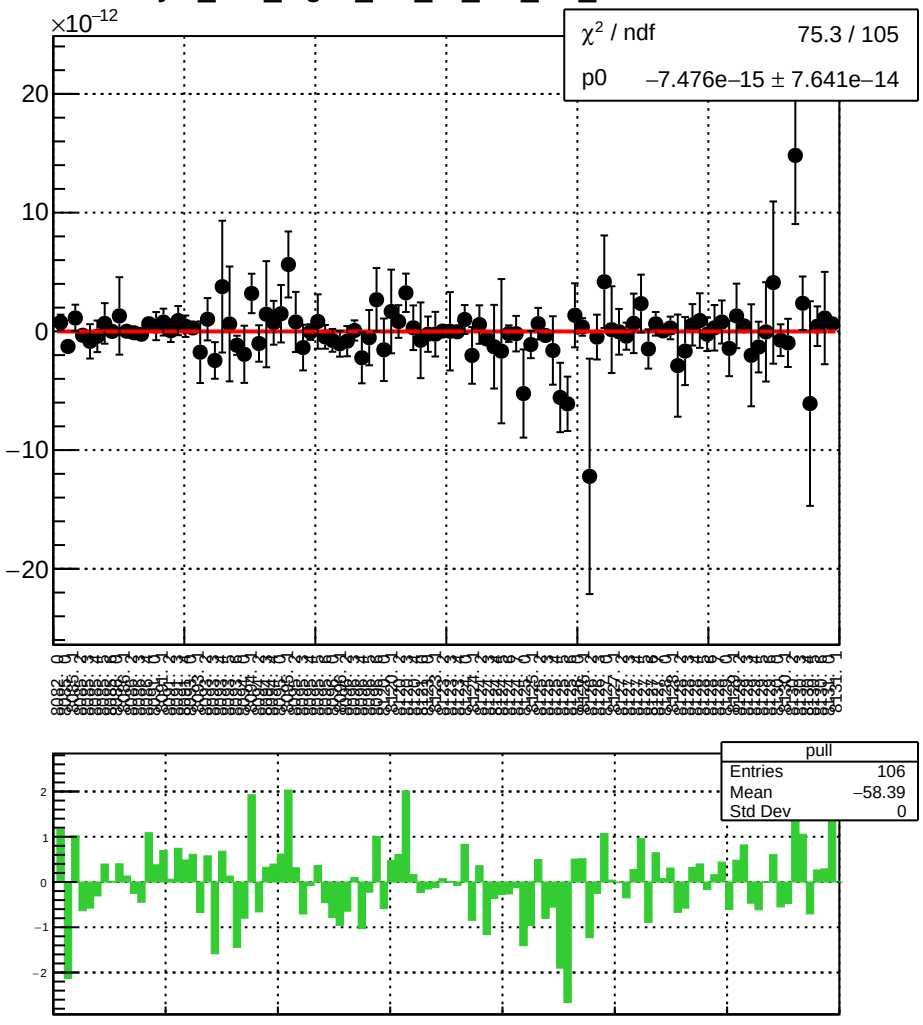

asym_atl1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.98e+05 / 104
p0 0.004723 ± 3.968e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

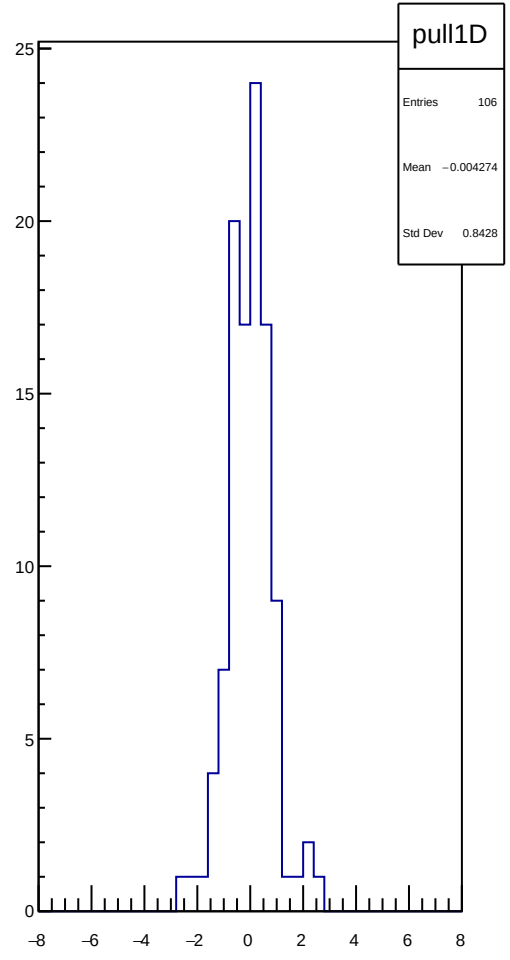

asym_atl1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.03 / 104
p0 −0.1703 ± 0.1382
pull
Entries 105
Mean 98.94
Std Dev 0
pull1D
Entries 105
Mean 0.03485
Std Dev 0.9457

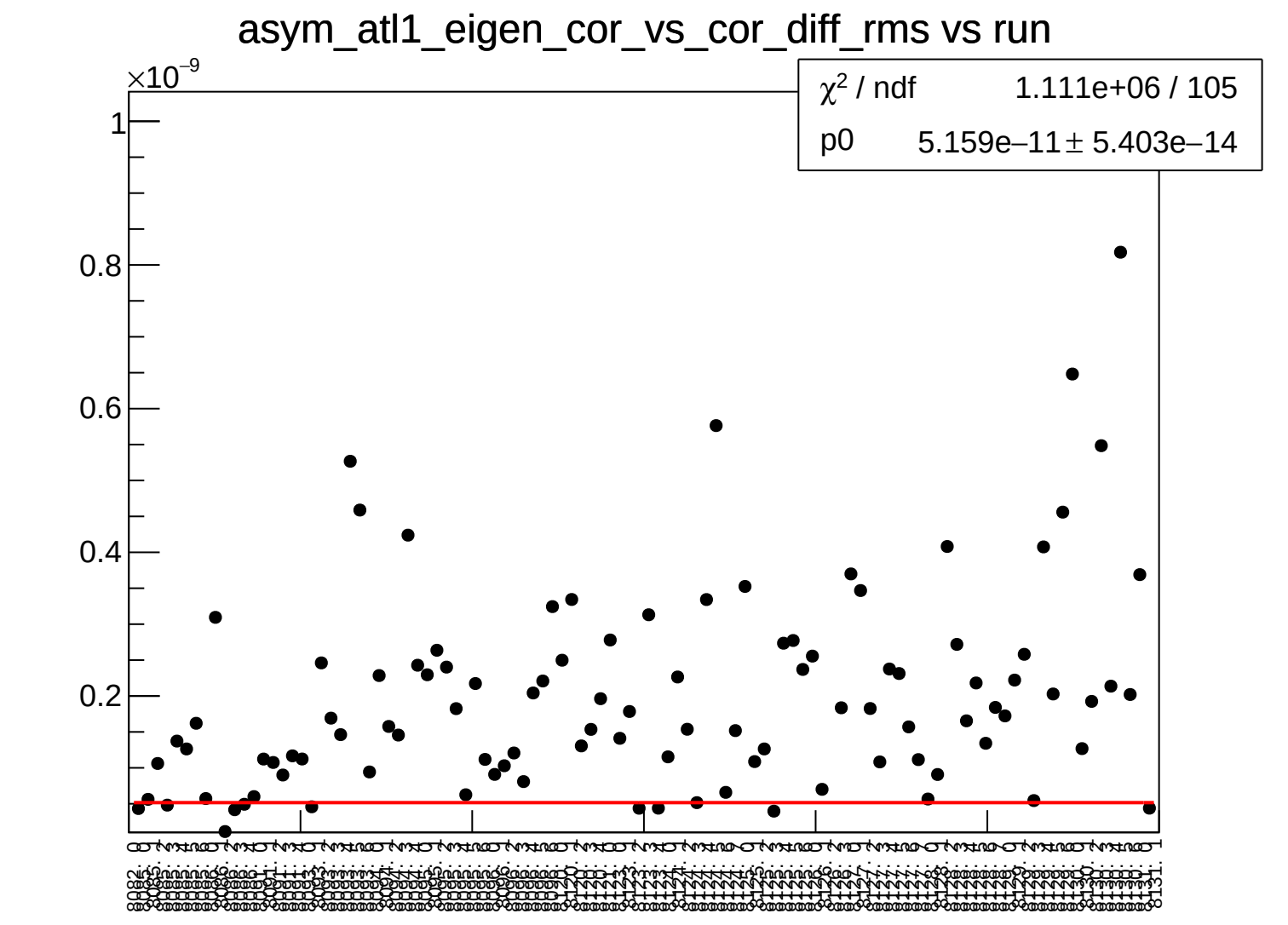

asym_atl1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.068e+05 / 104
p0 111.7 ± 0.0977
1400
1200
1000
800
600
400
200

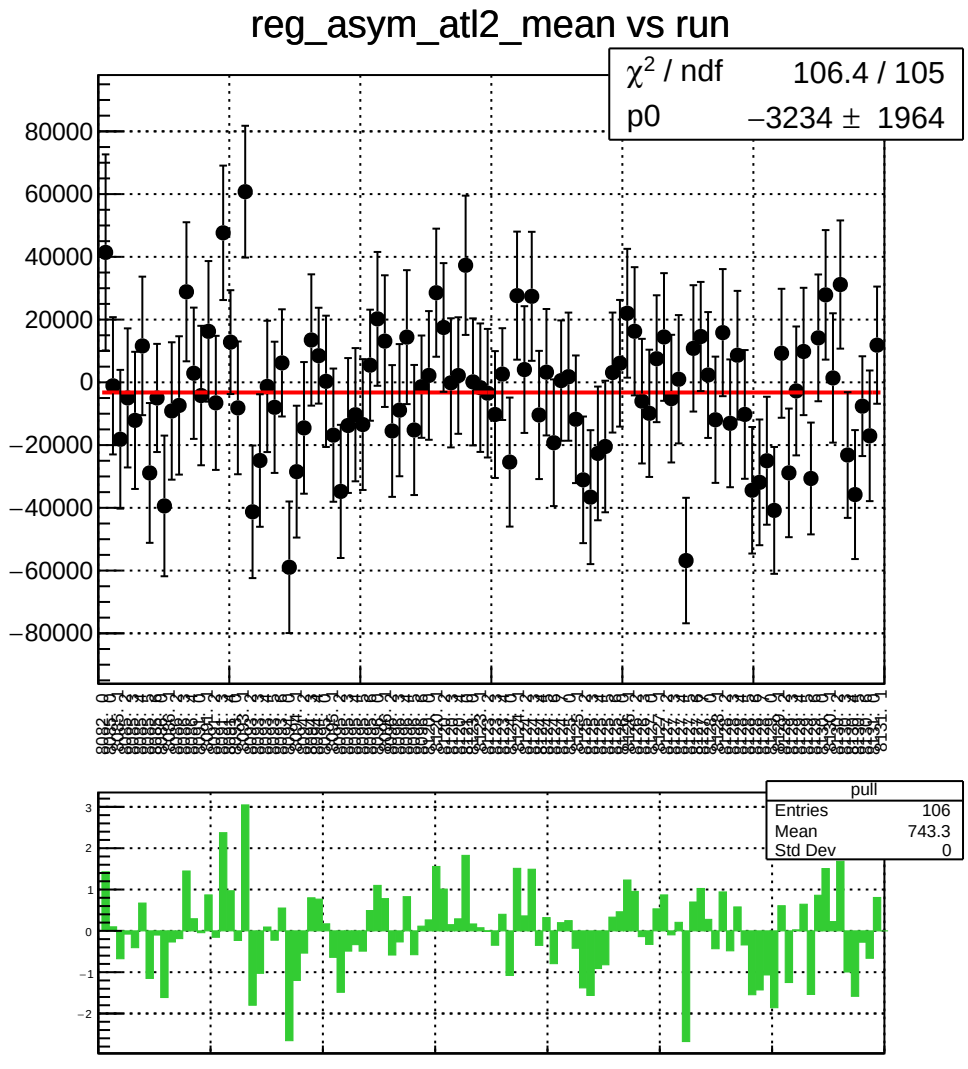

asym_atl1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.03 / 104
p0 −0.1703 ± 0.1382
30
20
10
0
−10
−20
−30
pull
Entries 105
Mean 98.94
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.03485
Std Dev 0.9457
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

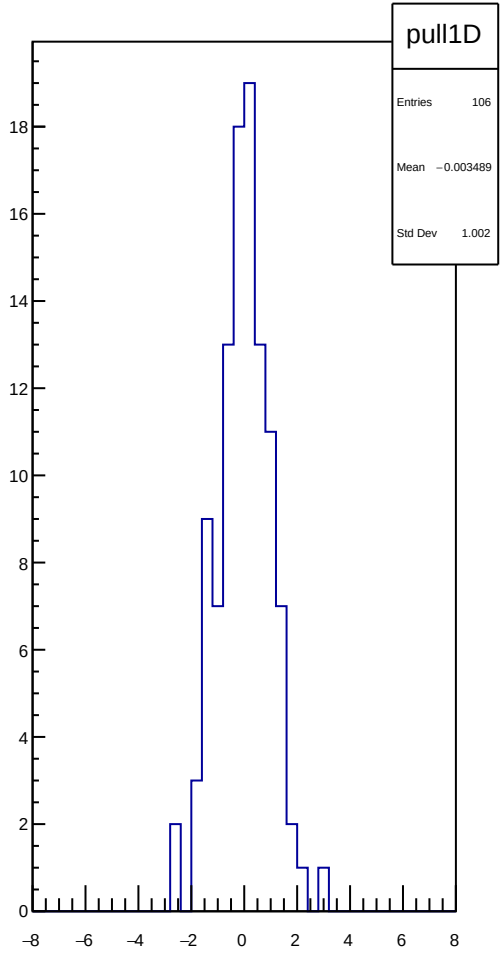

asym_atl1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.068e+05 / 104
p0 111.7 ± 0.0977
1400
1200
1000
800
600
400
200

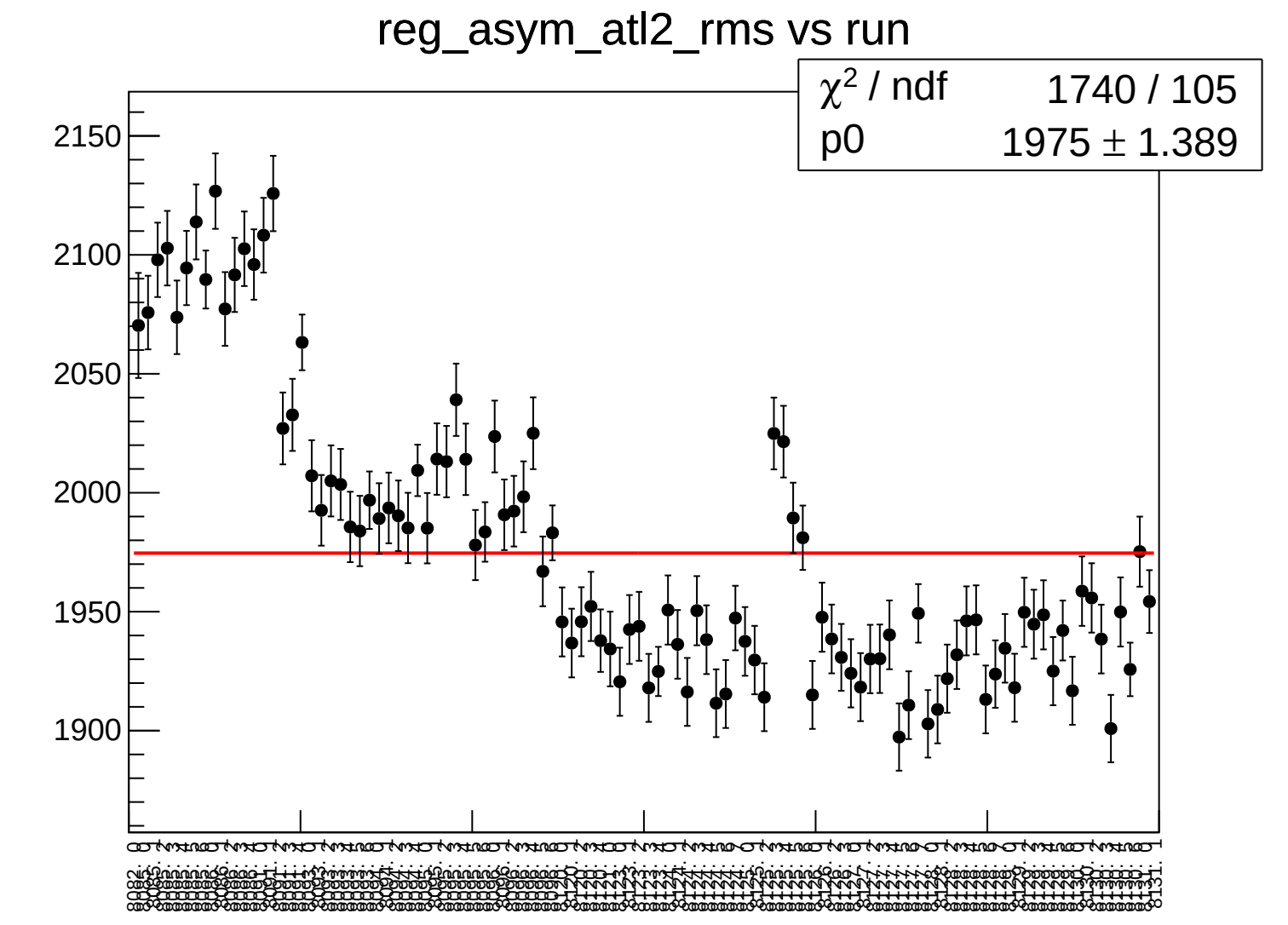

asym_atl1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.3 / 105
p0 −7.476e−15 ± 7.641e−14
pull
Entries 106
Mean −58.39
Std Dev 0

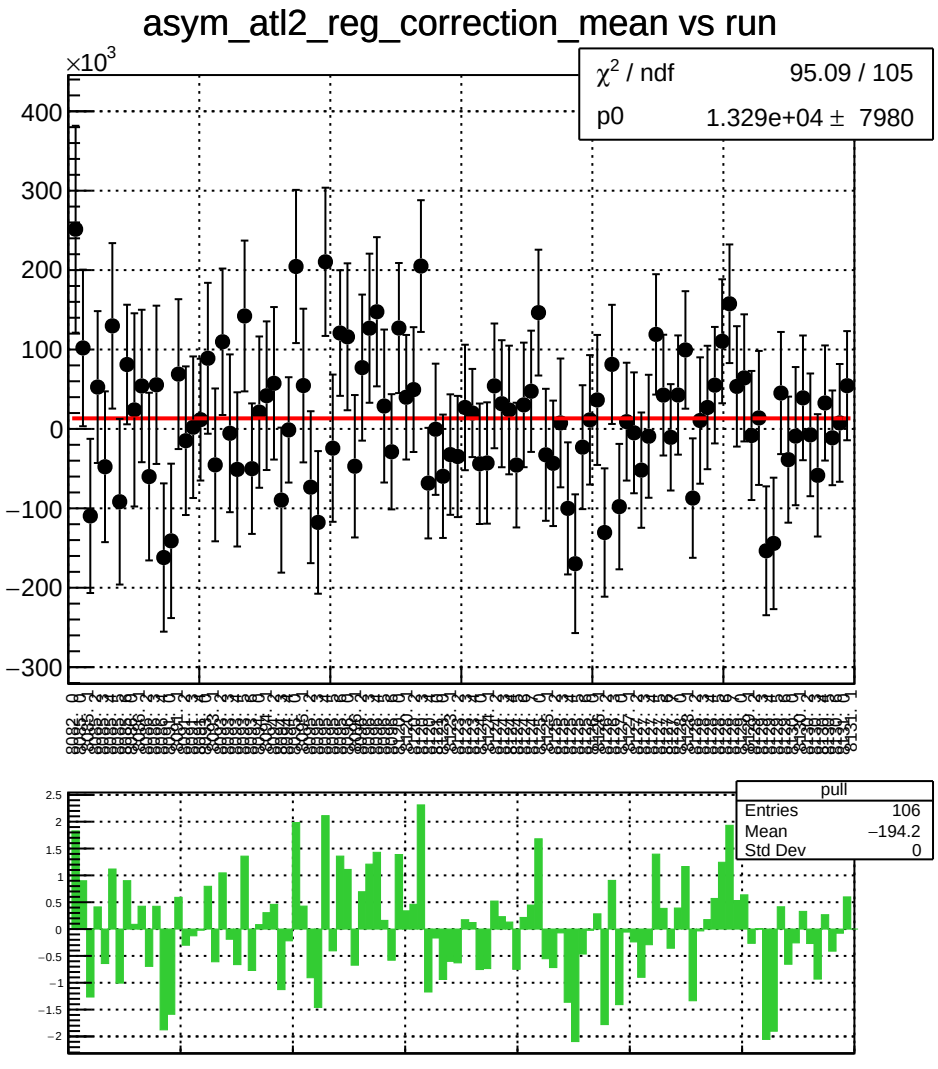

pull1D
Entries 106
Mean −0.004274
Std Dev 0.8428

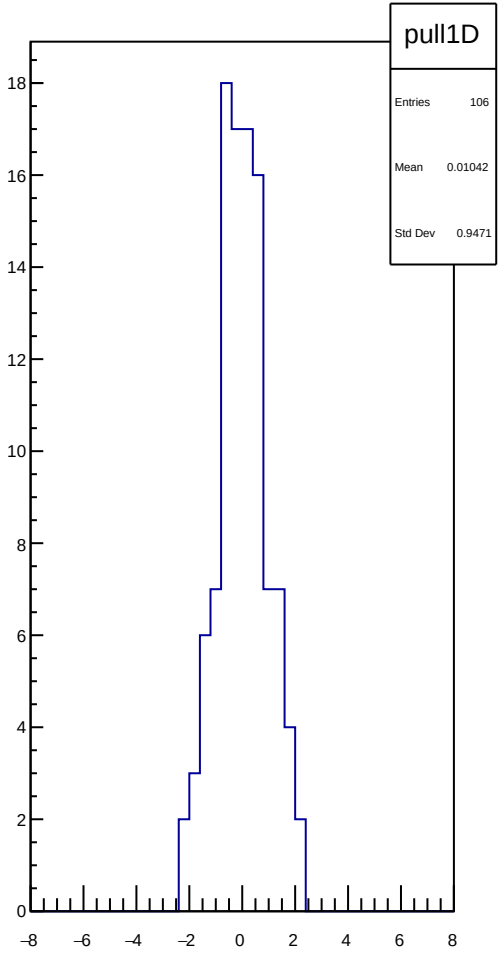

asym_atl1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
1
0.8
0.6
0.4
0.2
χ² / ndf 1.111e+06 / 105
p0 5.159e−11 ± 5.403e−14

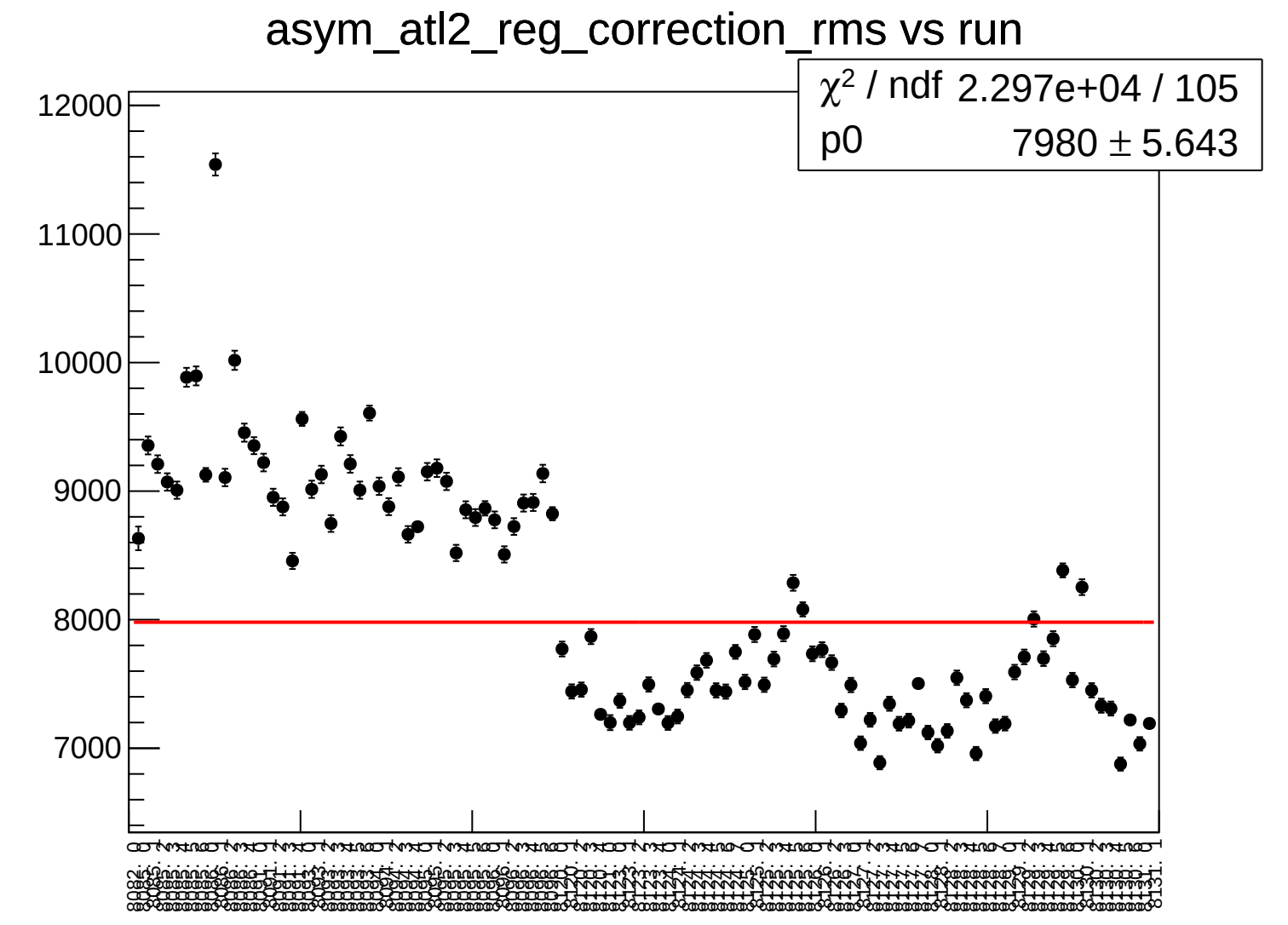

reg_asym_atl2_mean vs run
χ² / ndf 106.4 / 105
p0 −3234 ± 1964
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 106
Mean 743.3
Std Dev 0
3
2
1
0
−1
−2

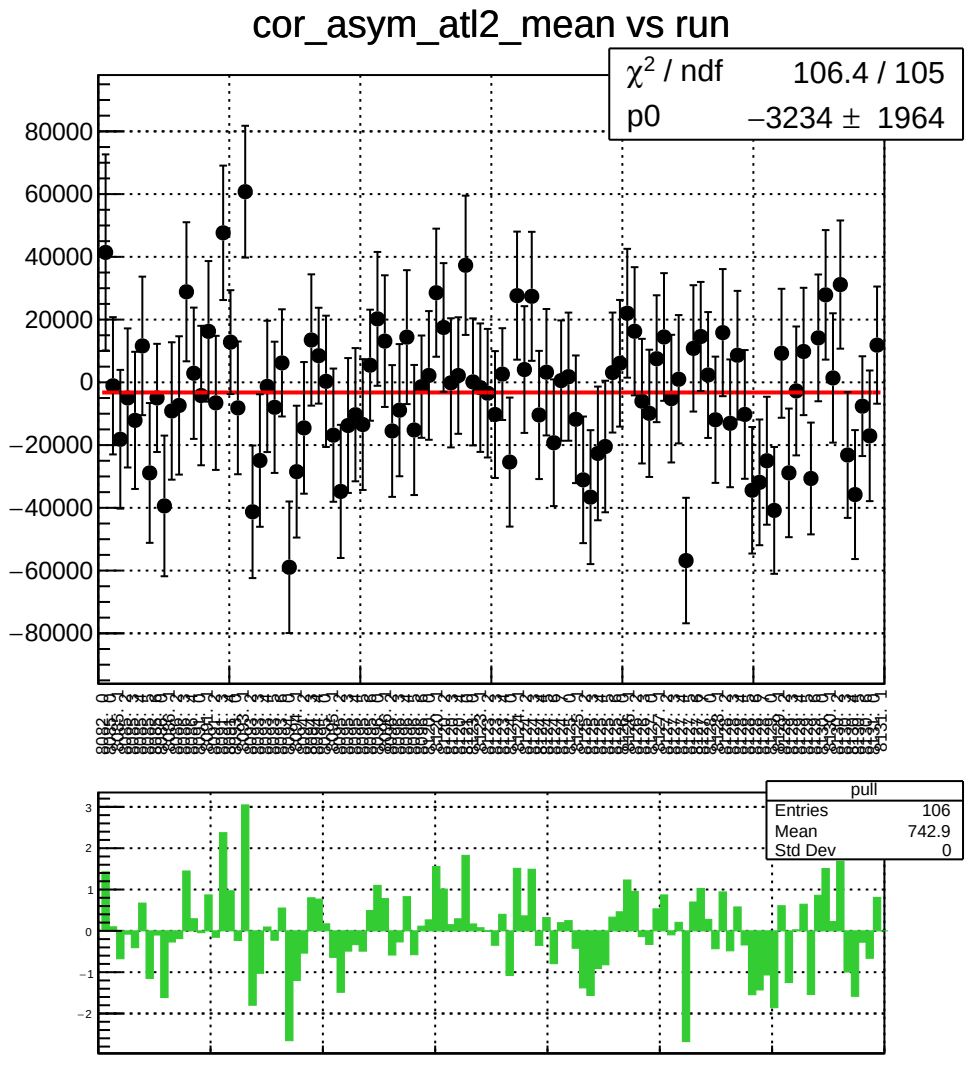

pull1D
Entries 106
Mean −0.003489
Std Dev 1.002
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

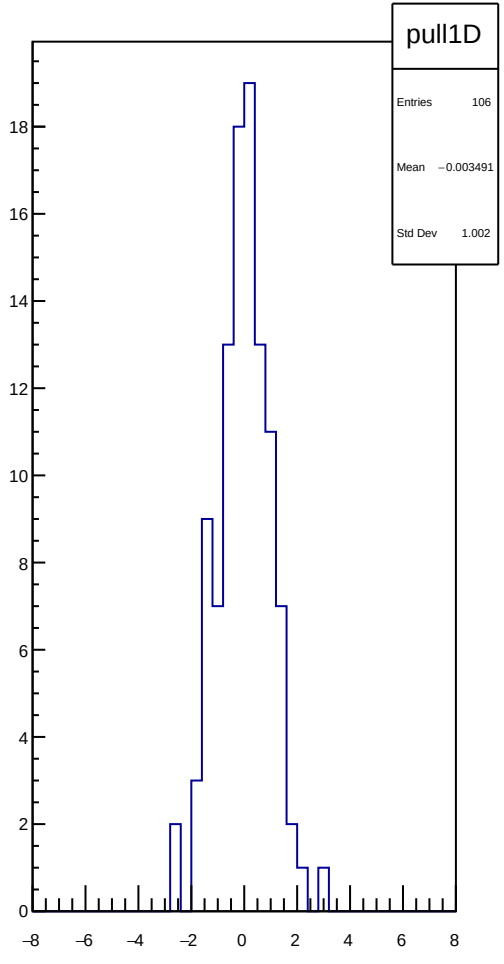

reg_asym_atl2_rms vs run
$\chi^2$ / ndf 1740 / 105
p0 1975 ± 1.389
2150
2100
2050
2000
1950
1900

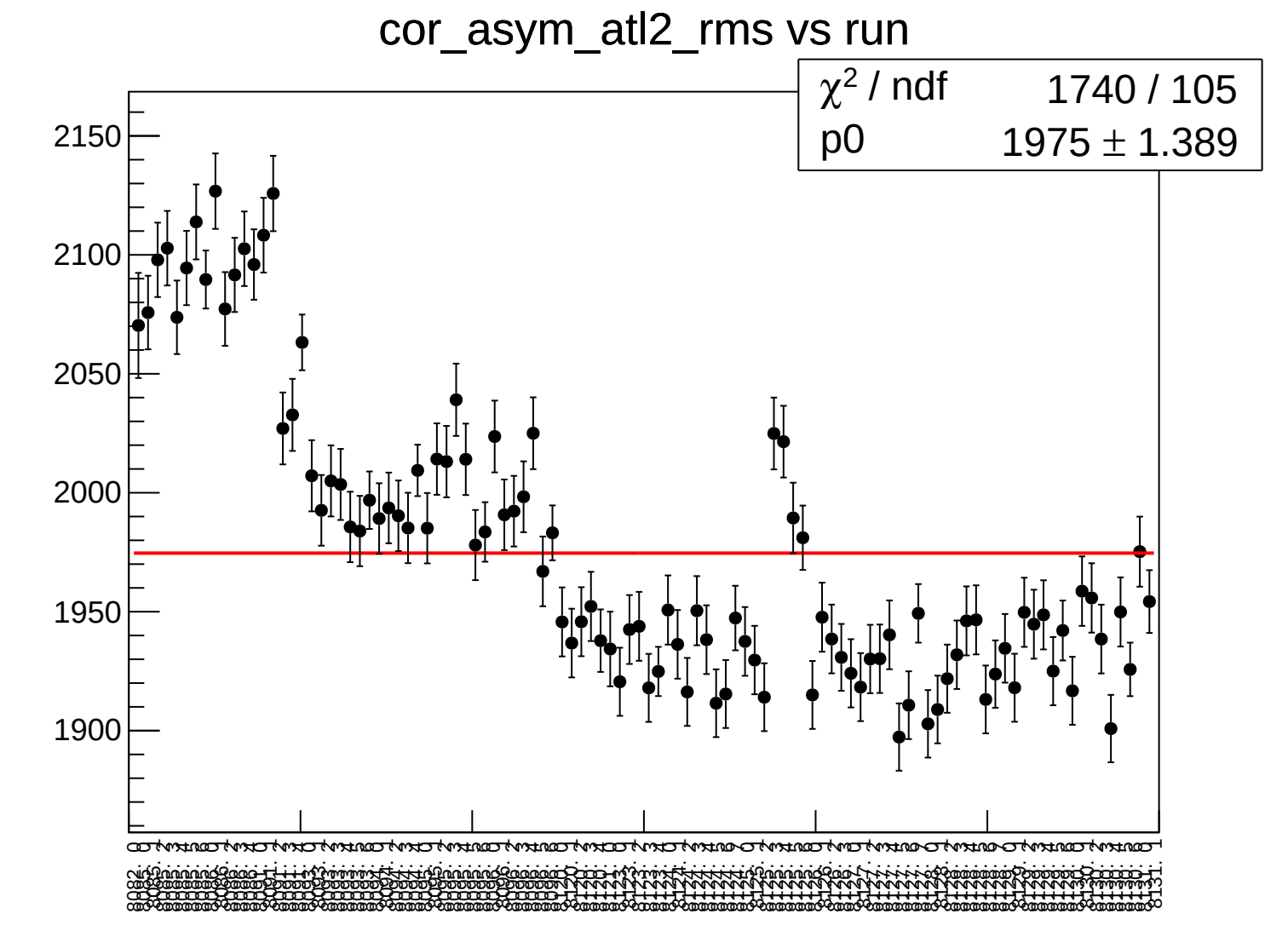

asym_atl2_reg_correction_mean vs run
×10^3
χ² / ndf 95.09 / 105
p0 1.329e+04 ± 7980
pull
Entries 106
Mean −194.2
Std Dev 0

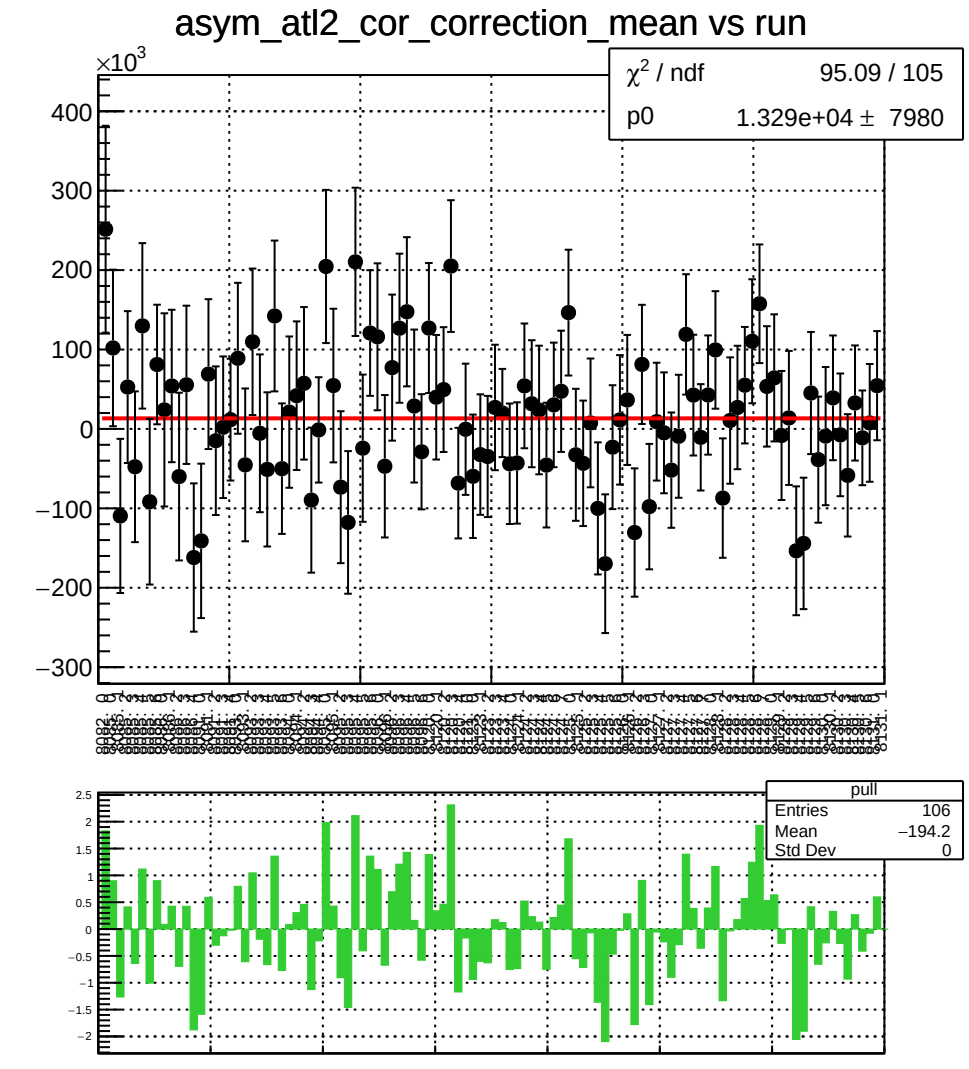

pull1D
Entries 106
Mean 0.01042
Std Dev 0.9471

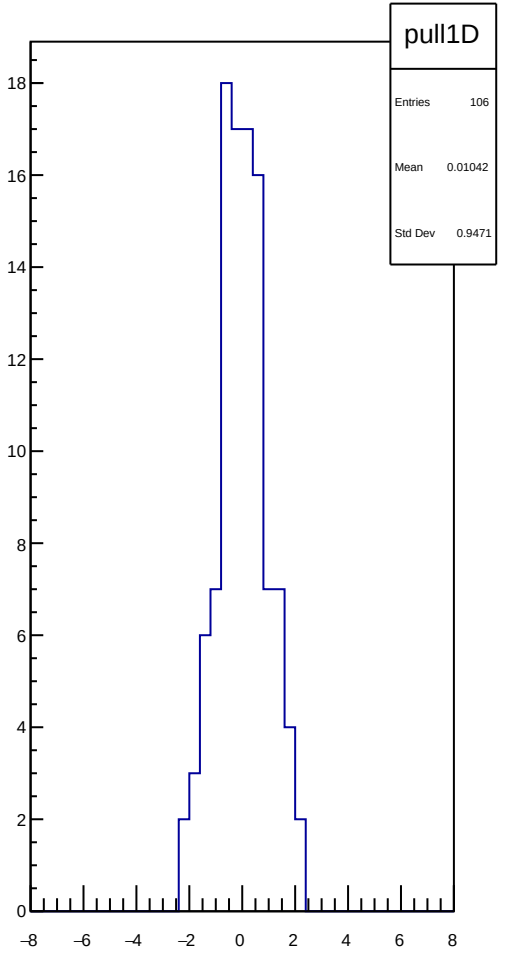

asym_atl2_reg_correction_rms vs run
χ² / ndf 2.297e+04 / 105
p0 7980 ± 5.643
12000
11000
10000
9000
8000
7000

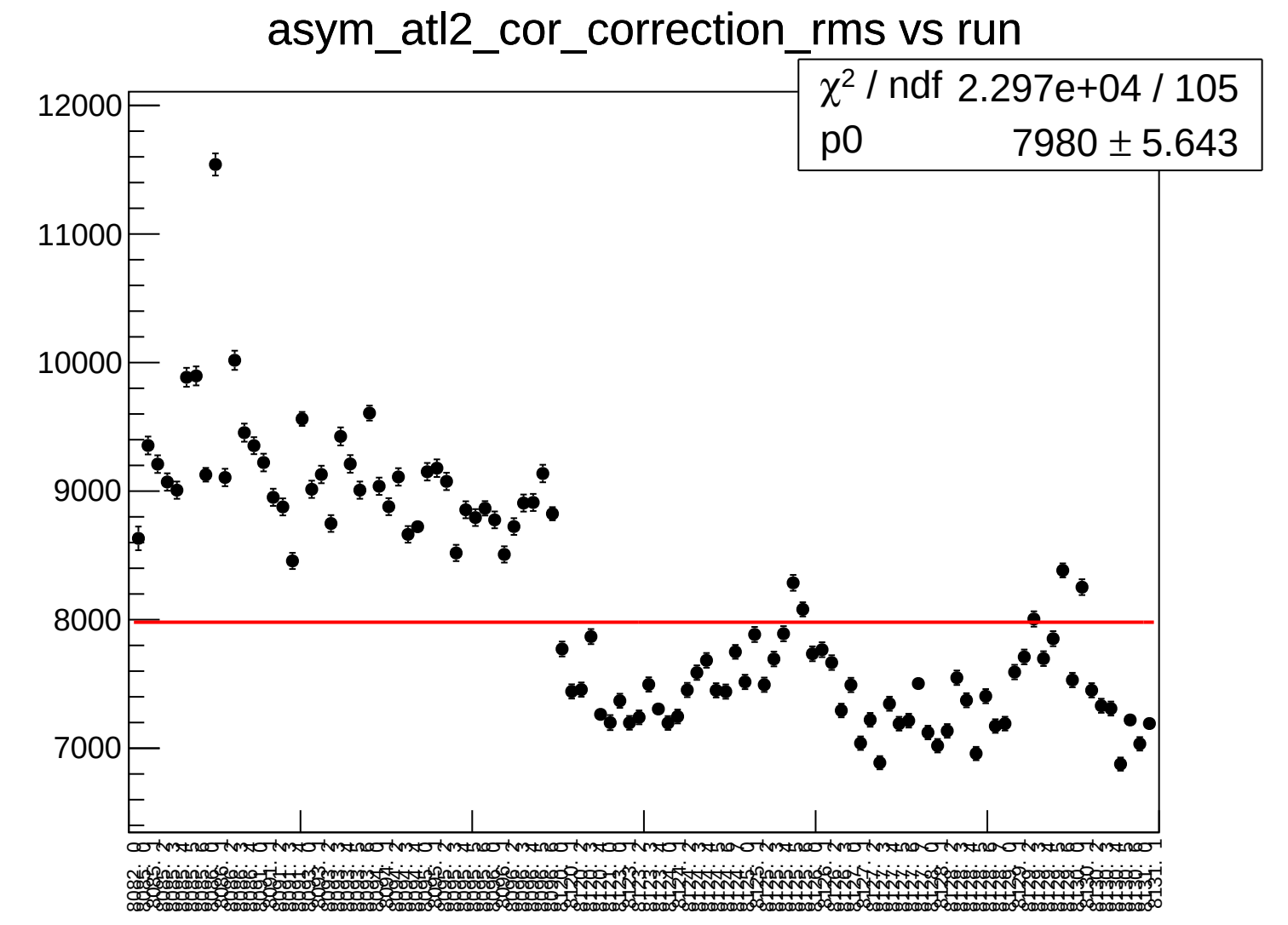

cor_asym_atl2_mean vs run
χ² / ndf 106.4 / 105
p0 −3234 ± 1964
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 106
Mean 742.9
Std Dev 0
3
2
1
0
−1
−2

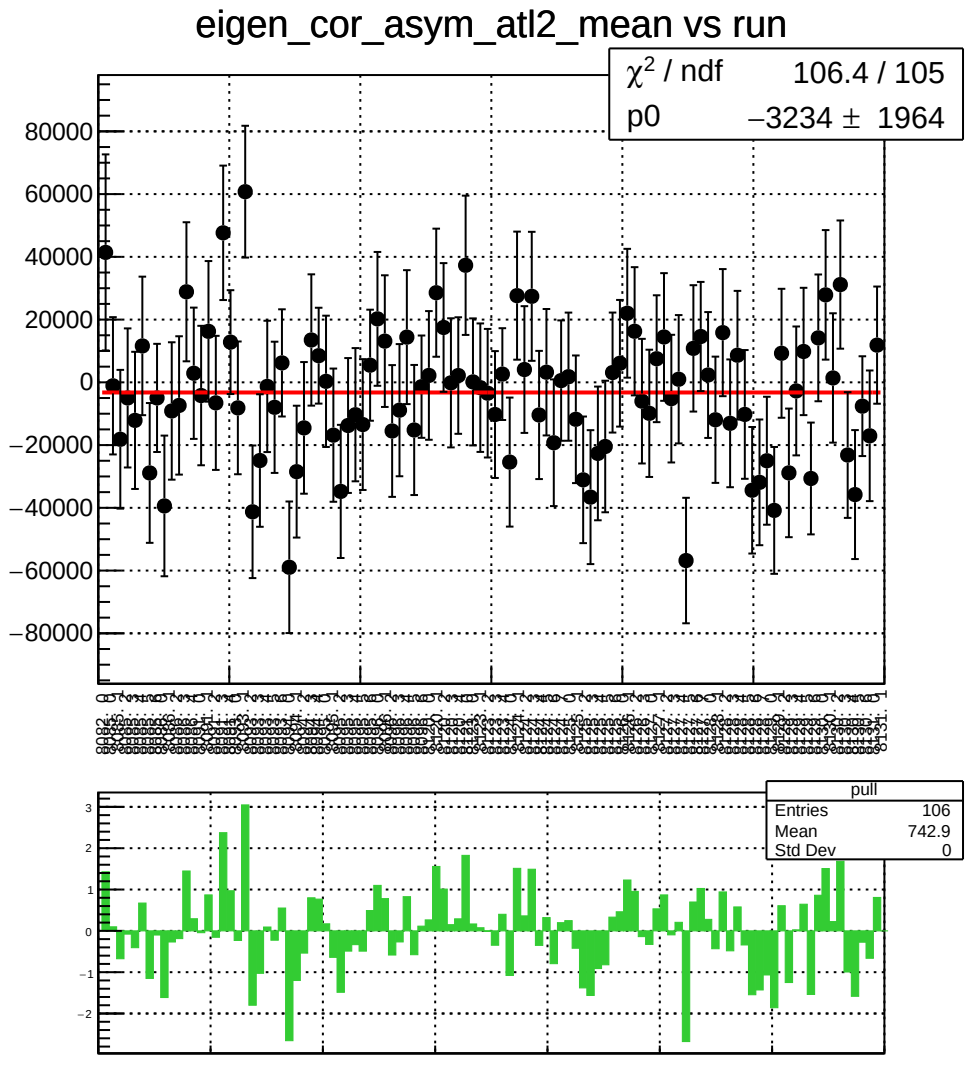

pull1D
Entries 106
Mean −0.003491
Std Dev 1.002
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

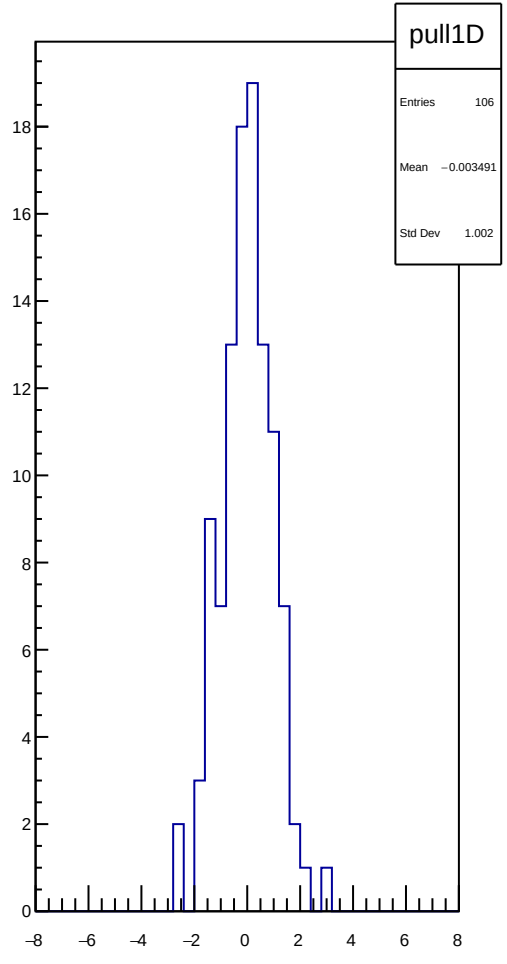

cor_asym_atl2_rms vs run
$\chi^2$ / ndf 1740 / 105
p0 1975 ± 1.389
2150
2100
2050
2000
1950
1900

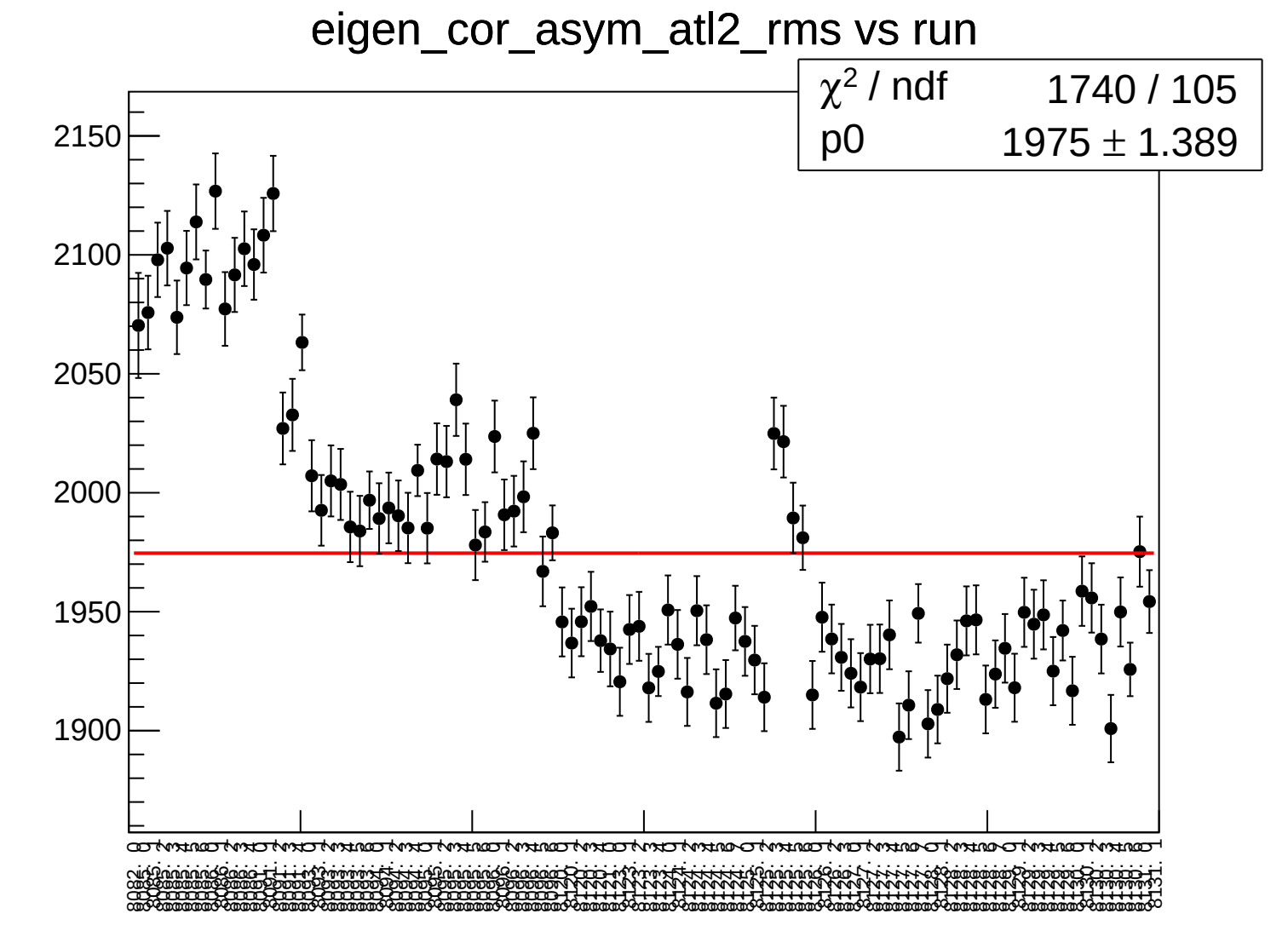

asym_atl2_cor_correction_mean vs run
×10^3
χ² / ndf 95.09 / 105
p0 1.329e+04 ± 7980
pull
Entries 106
Mean −194.2
Std Dev 0

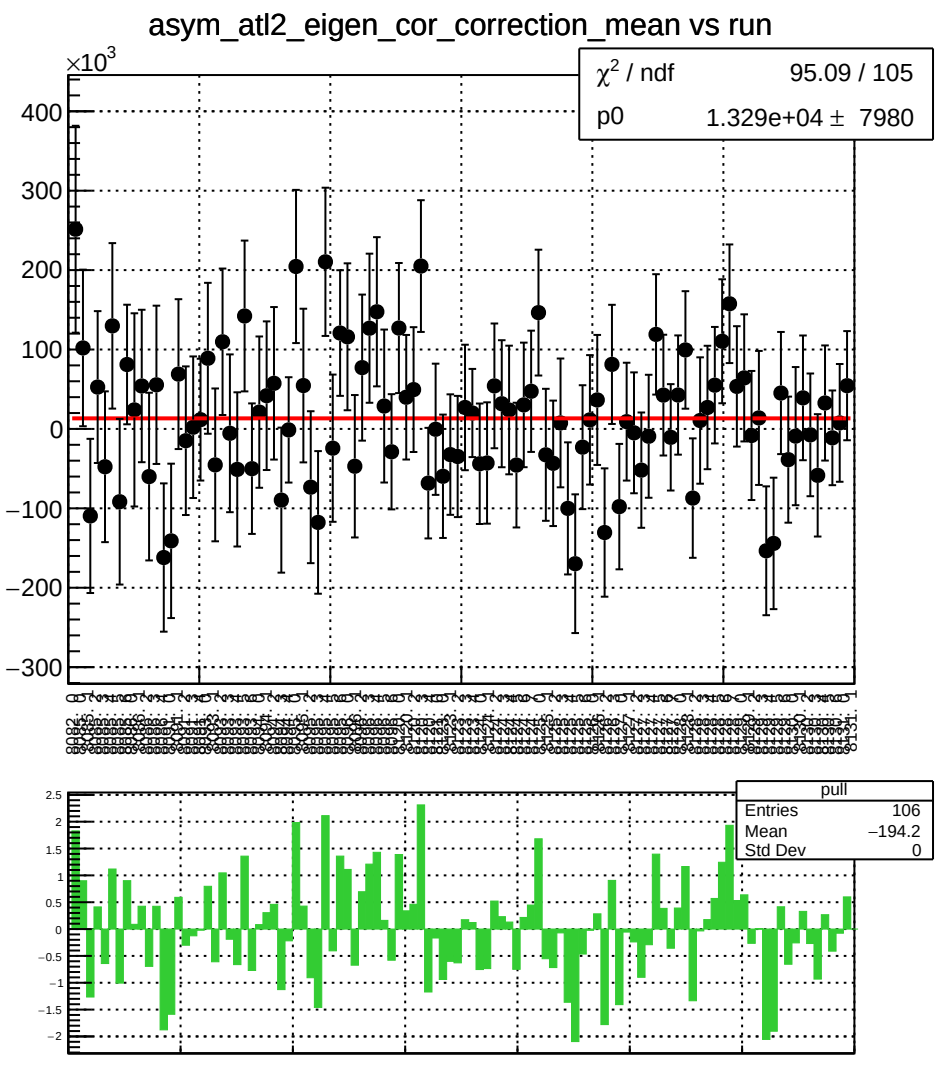

pull1D
Entries 106
Mean 0.01042
Std Dev 0.9471

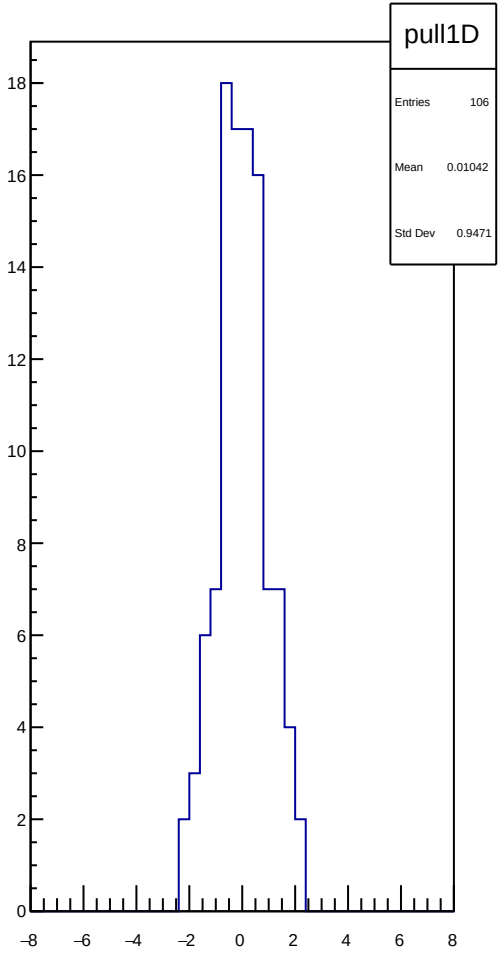

asym_atl2_cor_correction_rms vs run
χ² / ndf 2.297e+04 / 105
p0 7980 ± 5.643
12000
11000
10000
9000
8000
7000

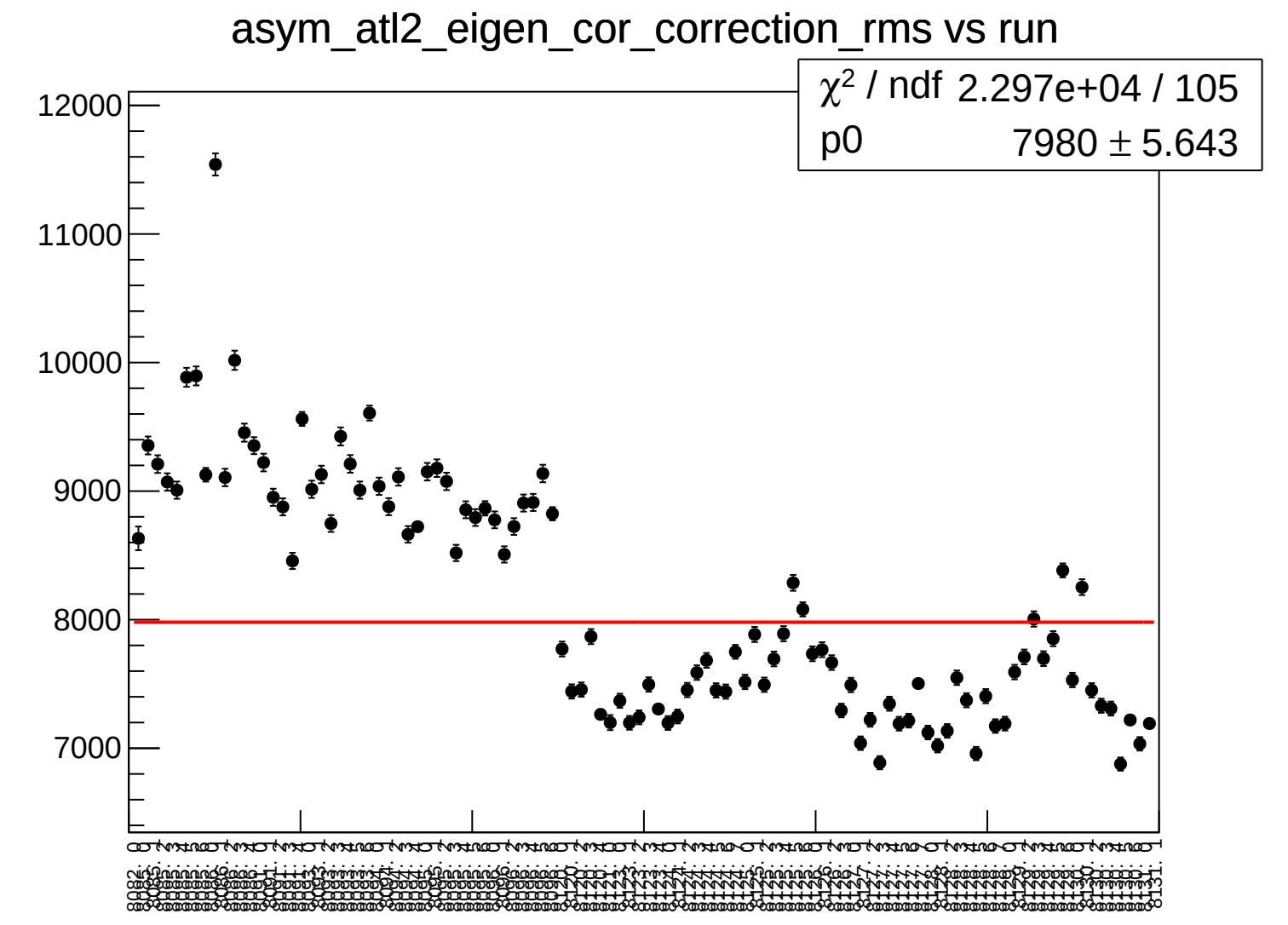

eigen_cor_asym_atl2_mean vs run
χ² / ndf 106.4 / 105
p0 −3234 ± 1964
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 106
Mean 742.9
Std Dev 0
3
2
1
0
−1
−2

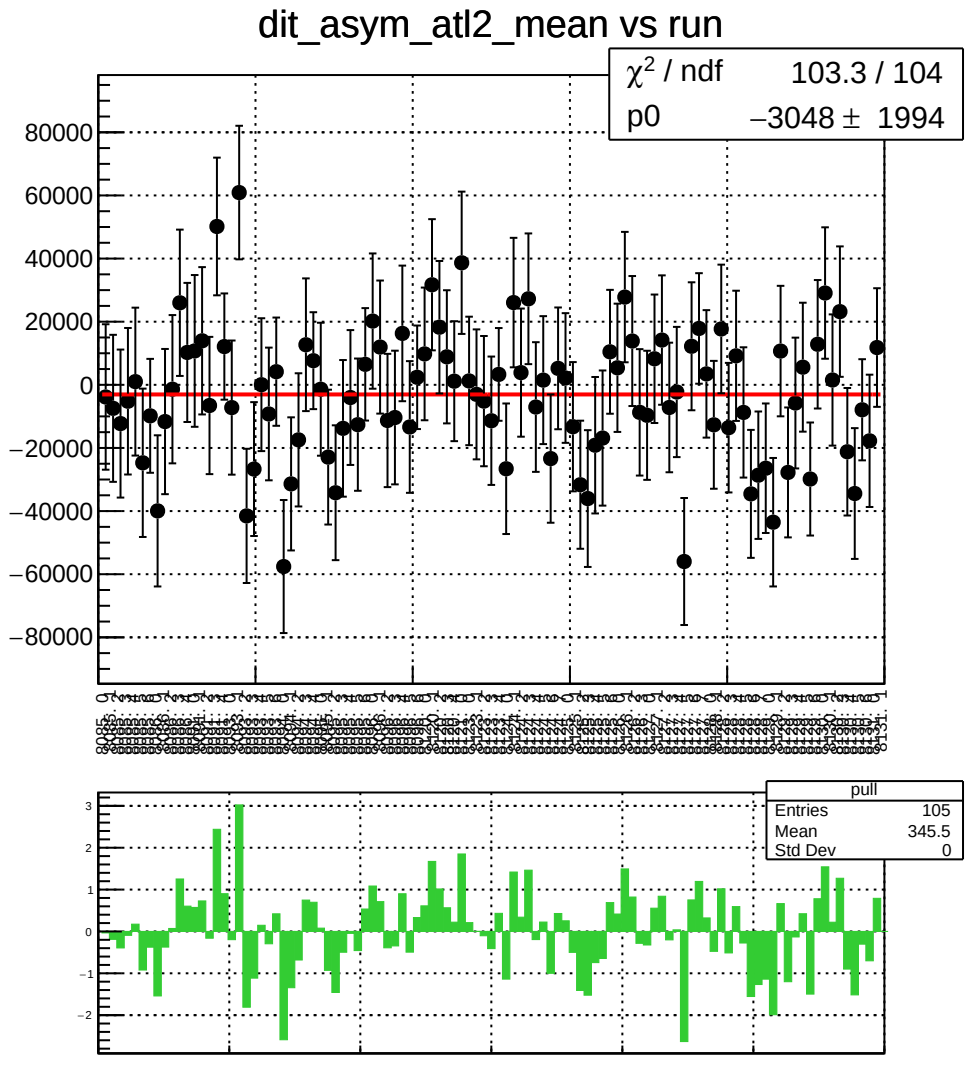

pull1D
Entries 106
Mean −0.003491
Std Dev 1.002
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

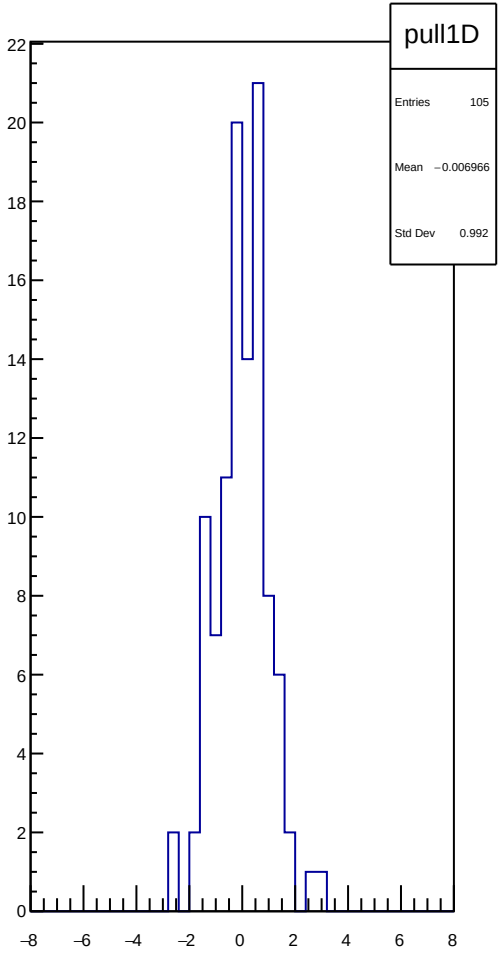

eigen_cor_asym_atl2_rms vs run
χ² / ndf 1740 / 105
p0 1975 ± 1.389
2150
2100
2050
2000
1950
1900

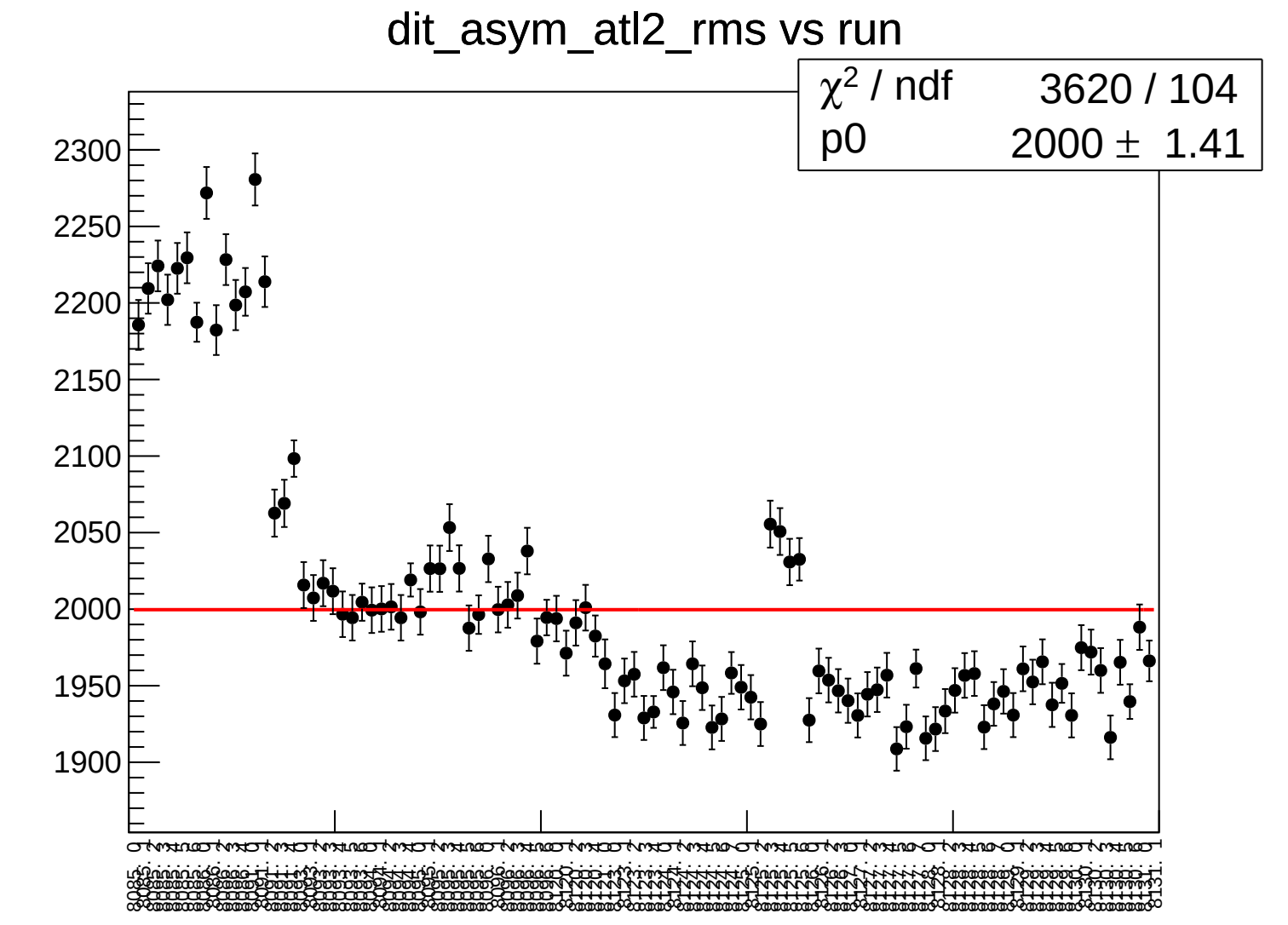

asym_atl2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 95.09 / 105
p0 1.329e+04 ± 7980
pull
Entries 106
Mean −194.2
Std Dev 0

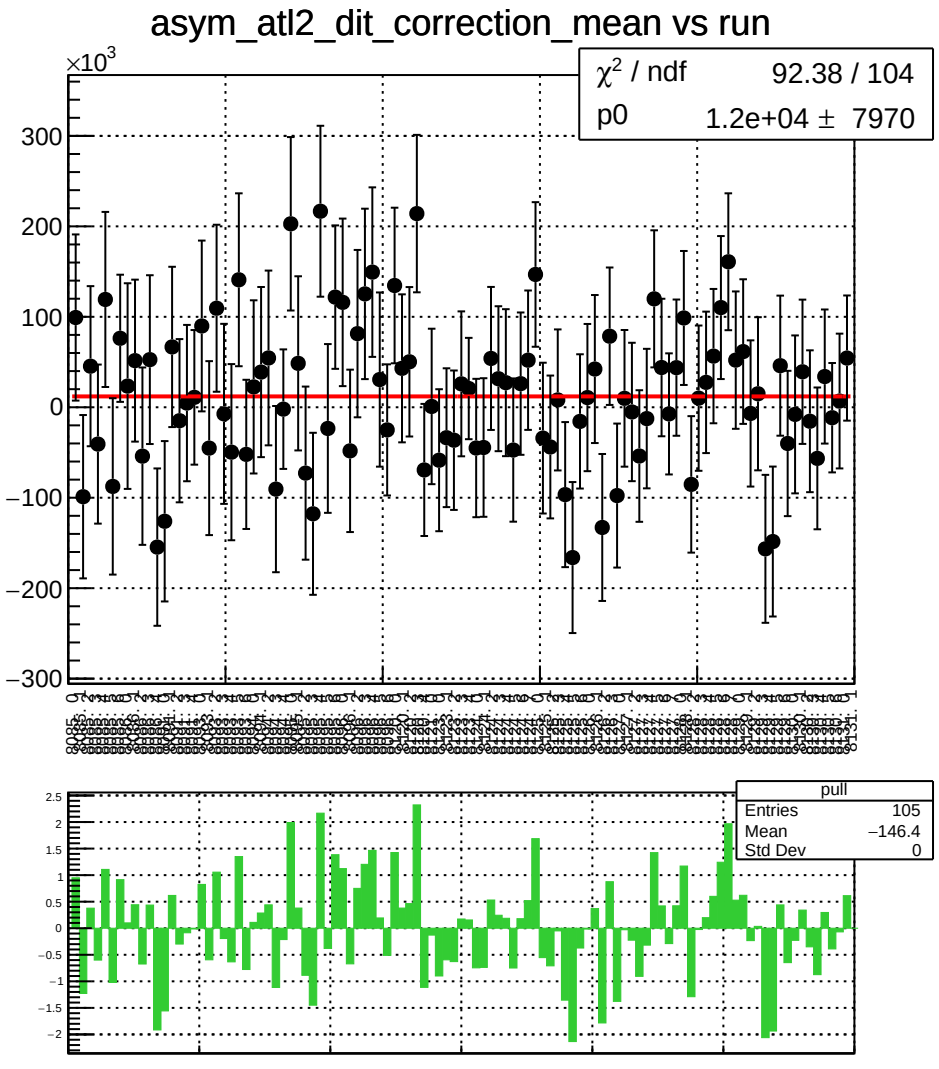

pull1D
Entries 106
Mean 0.01042
Std Dev 0.9471

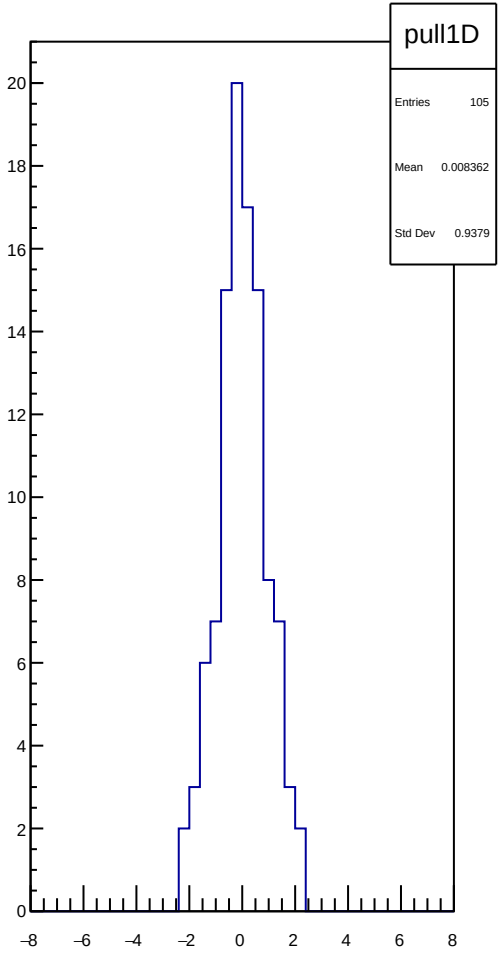

asym_atl2_eigen_cor_correction_rms vs run
χ² / ndf 2.297e+04 / 105
p0 7980 ± 5.643
12000
11000
10000
9000
8000
7000

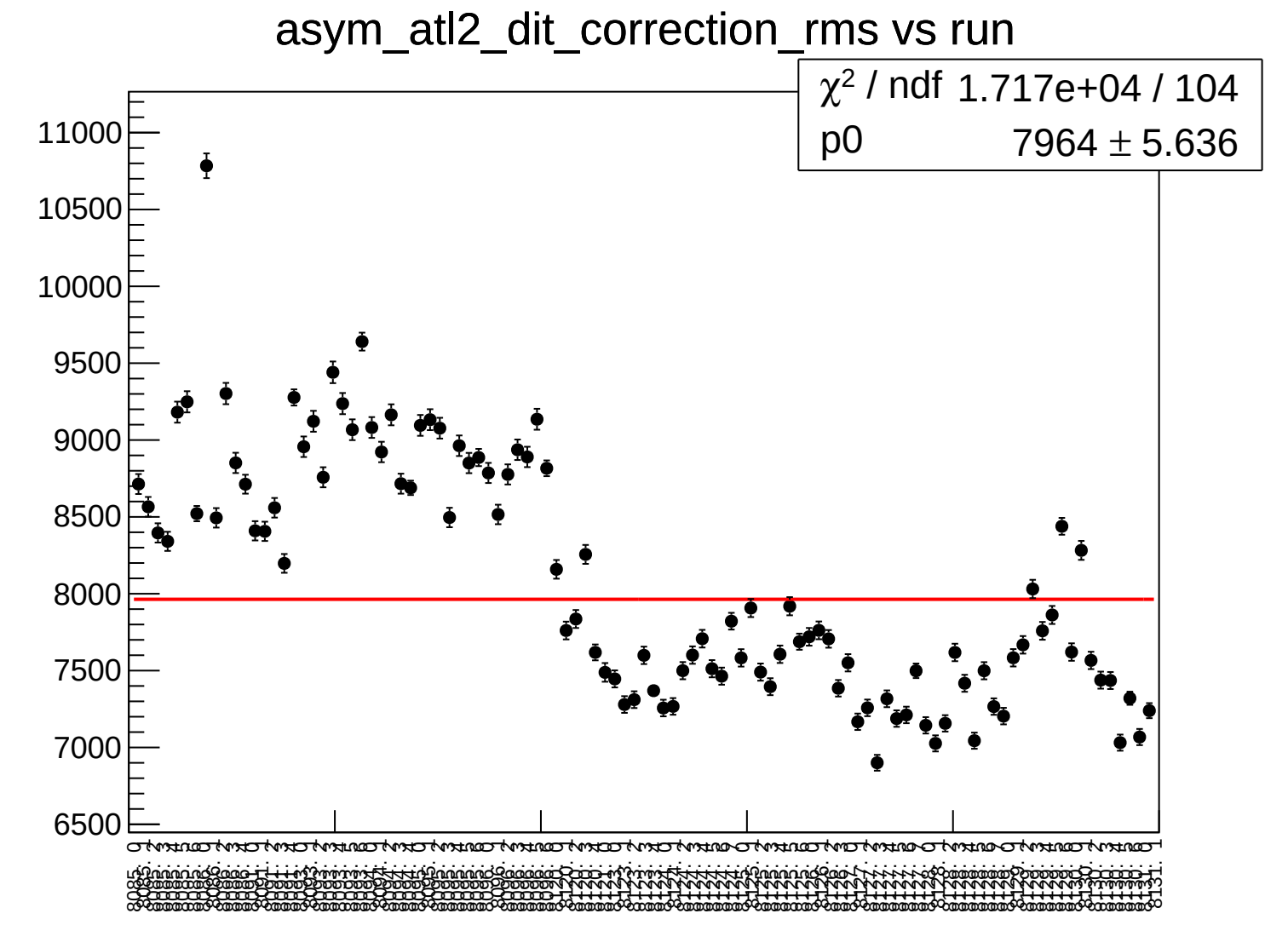

dit_asym_atl2_mean vs run
χ² / ndf 103.3 / 104
p0 −3048 ± 1994
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 105
Mean 345.5
Std Dev 0
3
2
1
0
−1
−2

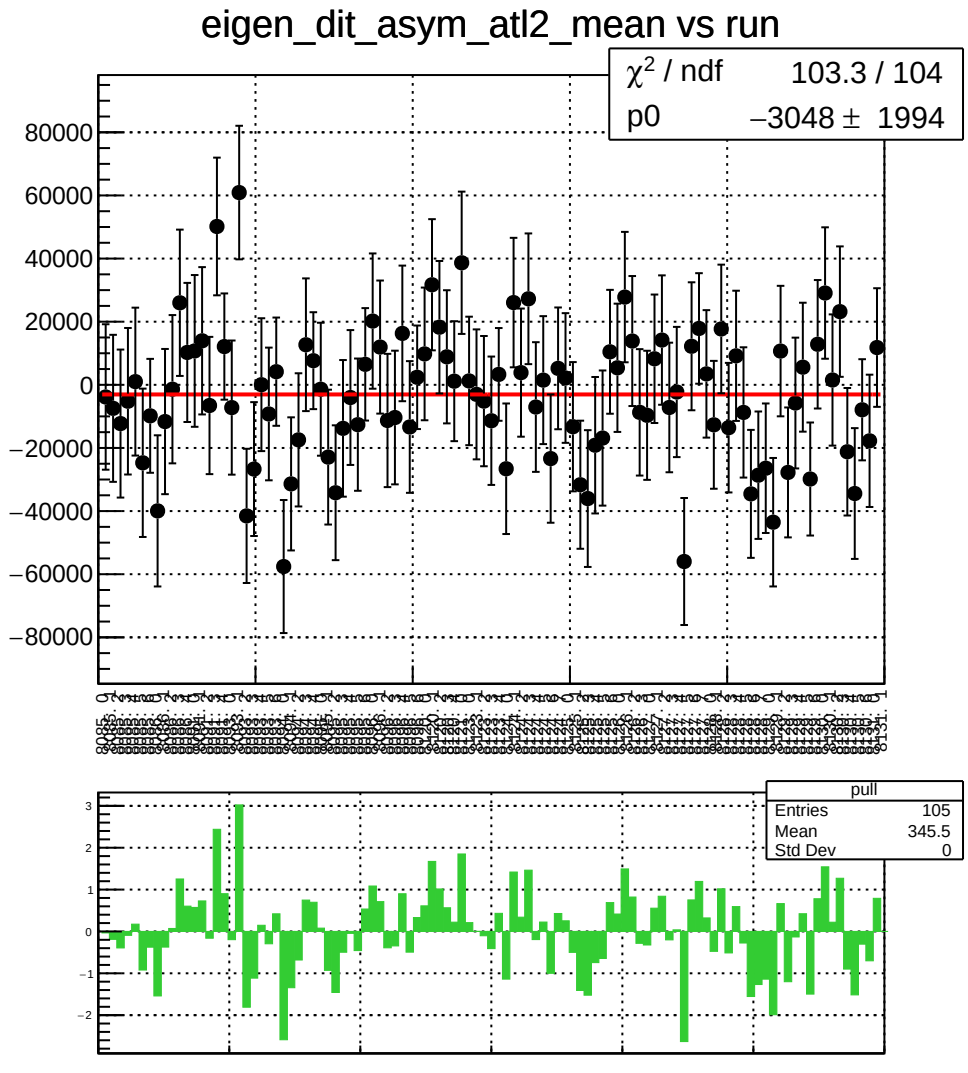

pull1D
Entries 105
Mean −0.006966
Std Dev 0.992
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

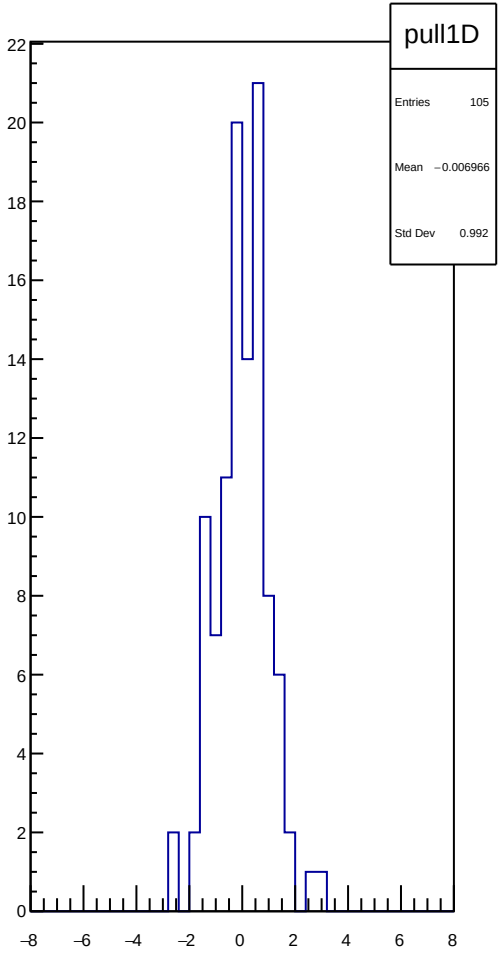

dit_asym_atl2_rms vs run
χ² / ndf 3620 / 104
p0 2000 ± 1.41
2300
2250
2200
2150
2100
2050
2000
1950
1900

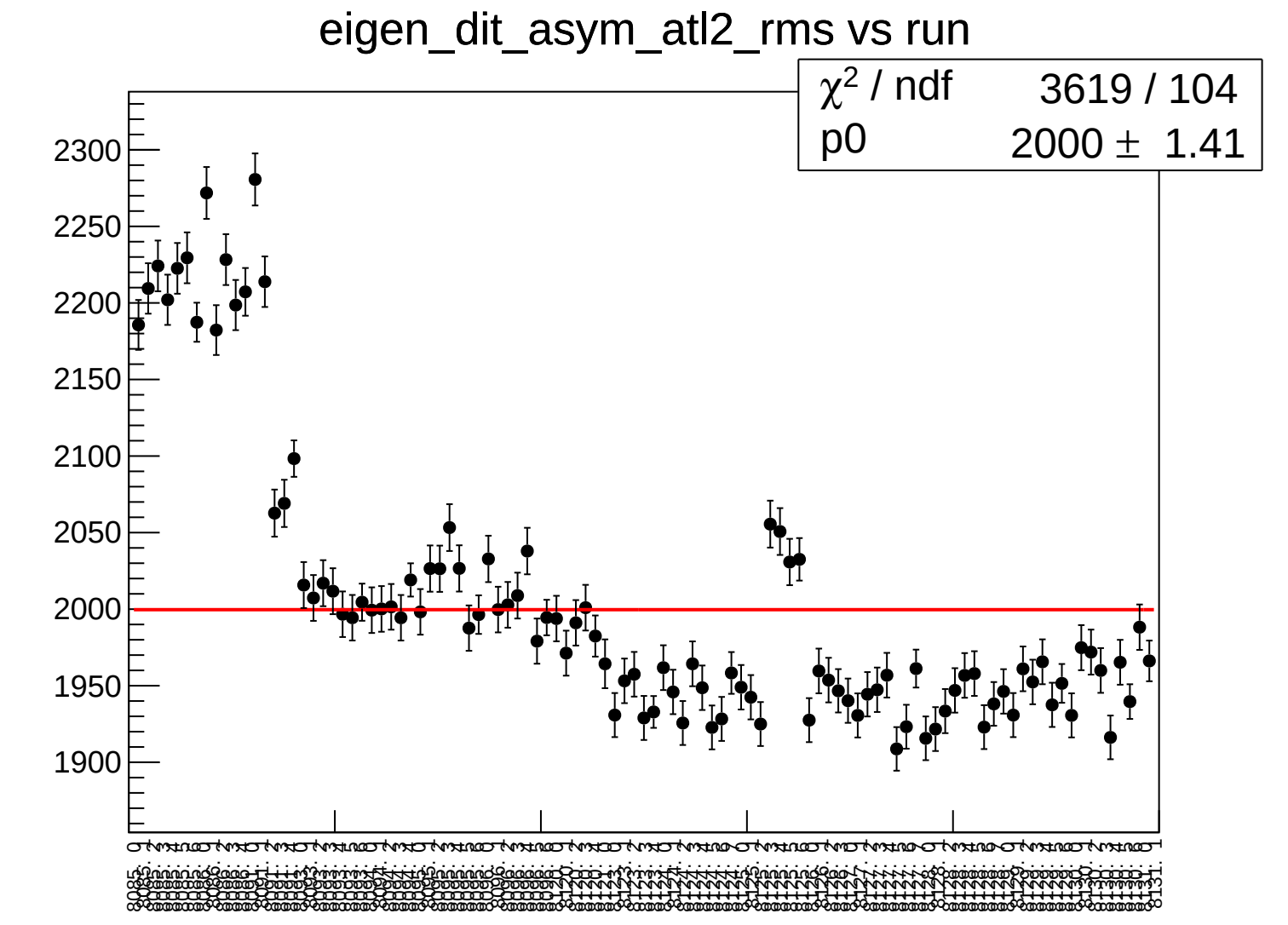

asym_atl2_dit_correction_mean vs run
×10^3
χ² / ndf 92.38 / 104
p0 1.2e+04 ± 7970
300
200
100
0
−100
−200
−300
pull
Entries 105
Mean −146.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

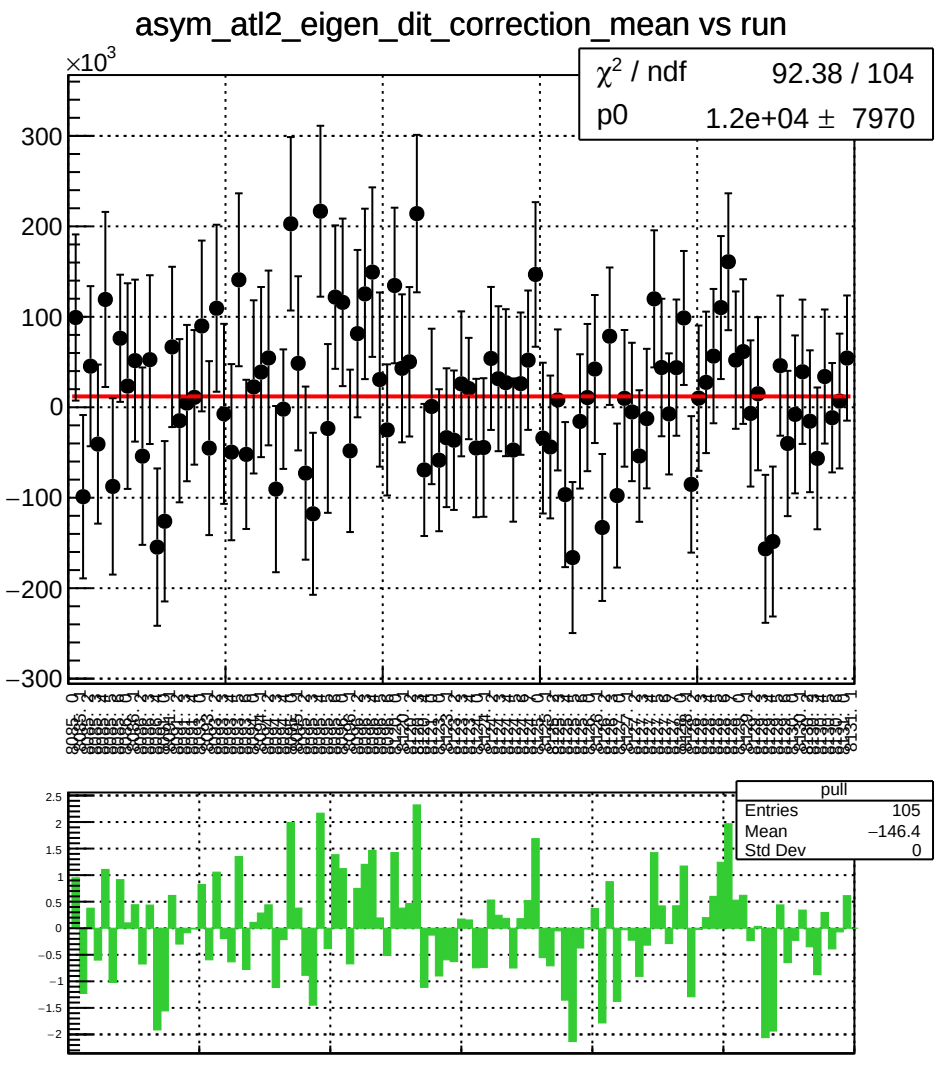

pull1D
Entries 105
Mean 0.008362
Std Dev 0.9379
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

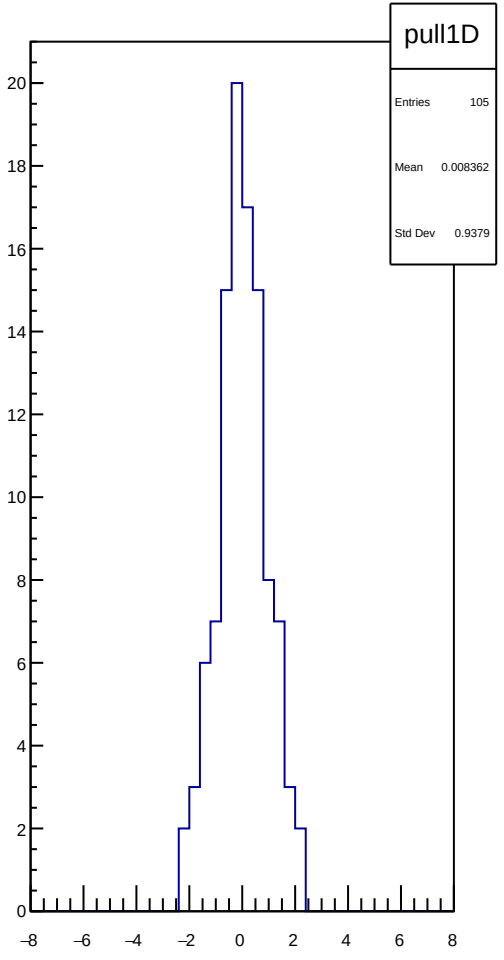

asym_atl2_dit_correction_rms vs run
χ² / ndf 1.717e+04 / 104
p0 7964 ± 5.636
11000
10500
10000
9500
9000
8500
8000
7500
7000
6500

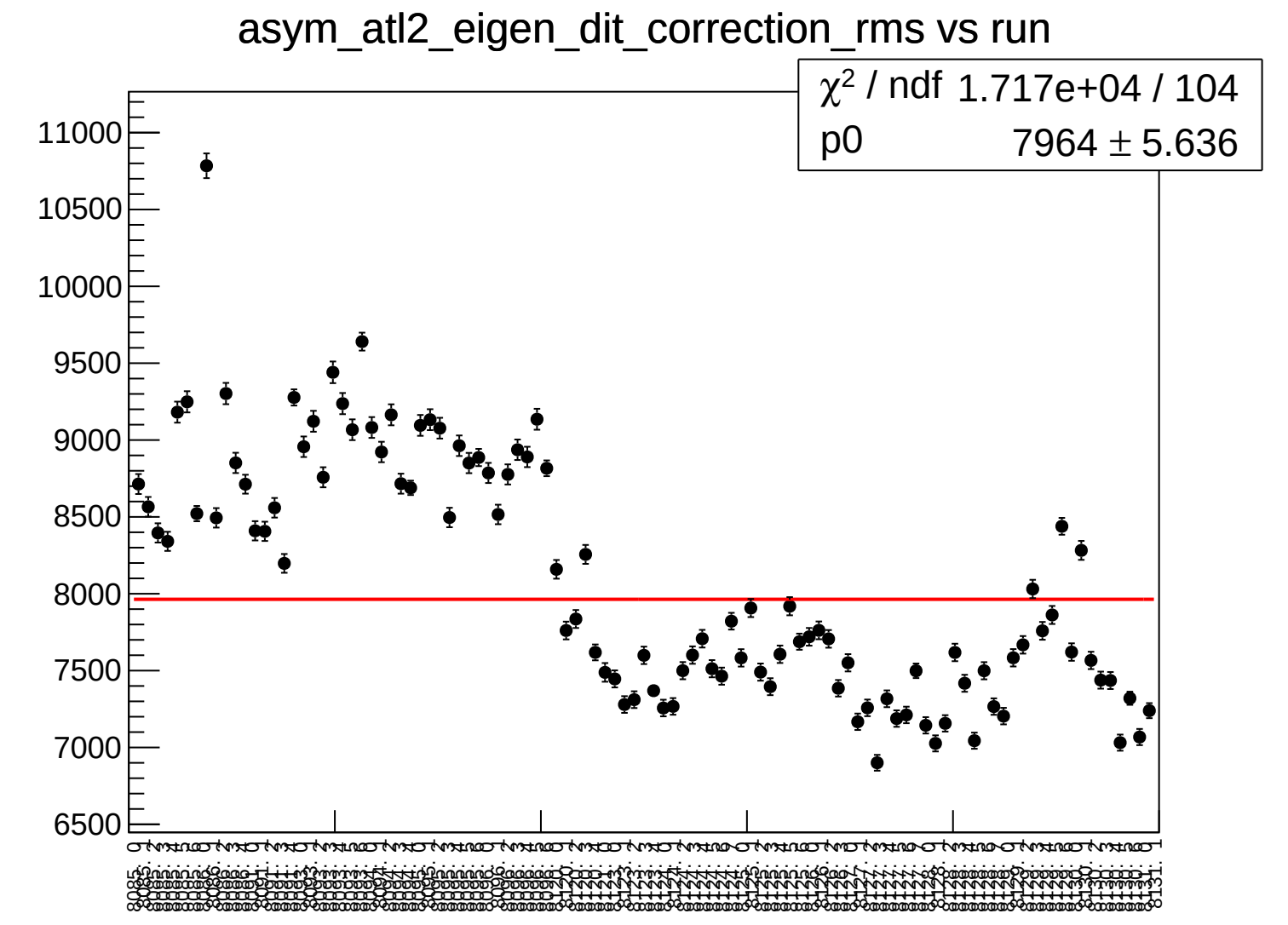

eigen_dit_asym_atl2_mean vs run
χ² / ndf 103.3 / 104
p0 −3048 ± 1994
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 105
Mean 345.5
Std Dev 0
3
2
1
0
−1
−2

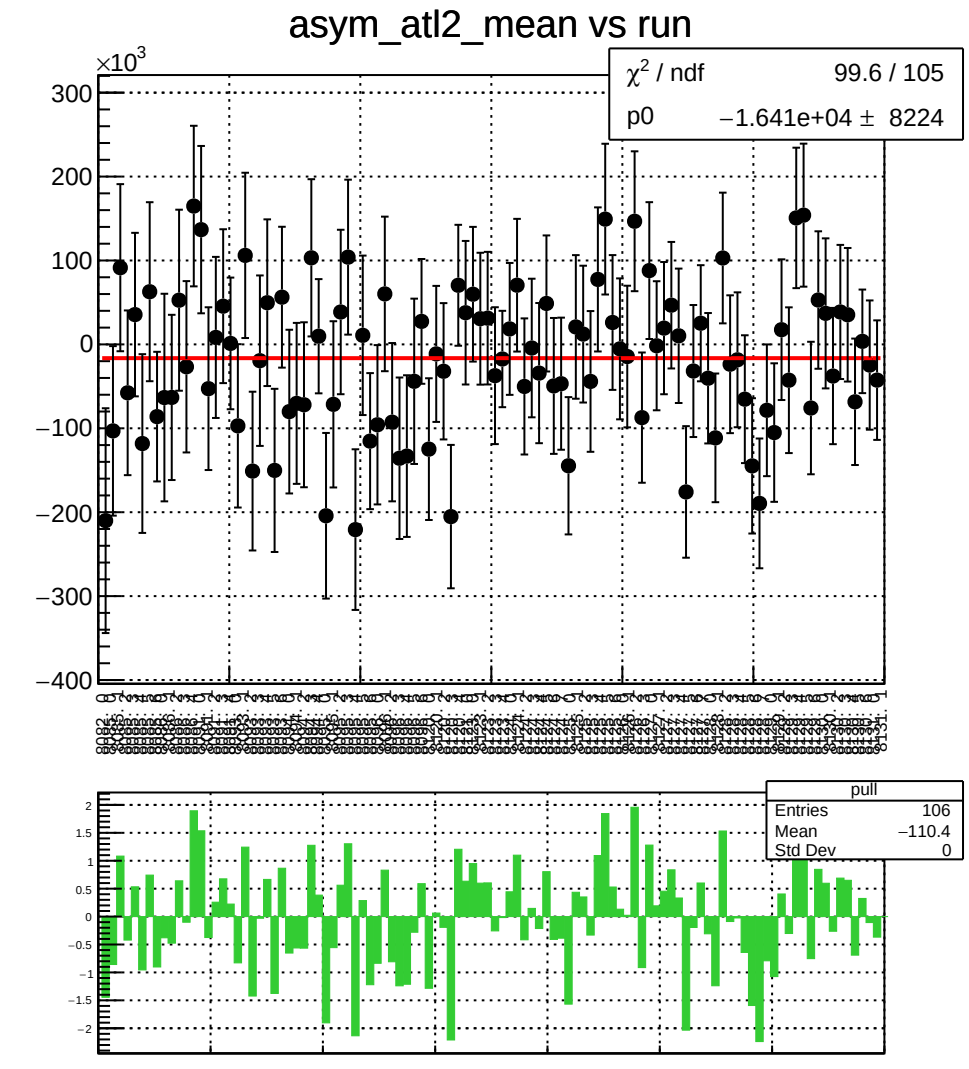

pull1D
Entries 105
Mean −0.006966
Std Dev 0.992
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

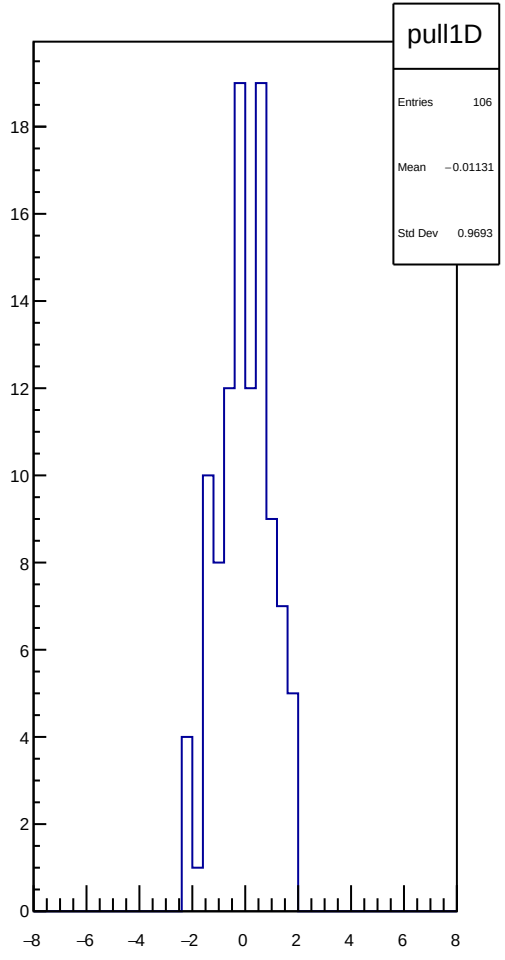

eigen_dit_asym_atl2_rms vs run
χ² / ndf 3619 / 104
p0 2000 ± 1.41
2300
2250
2200
2150
2100
2050
2000
1950
1900

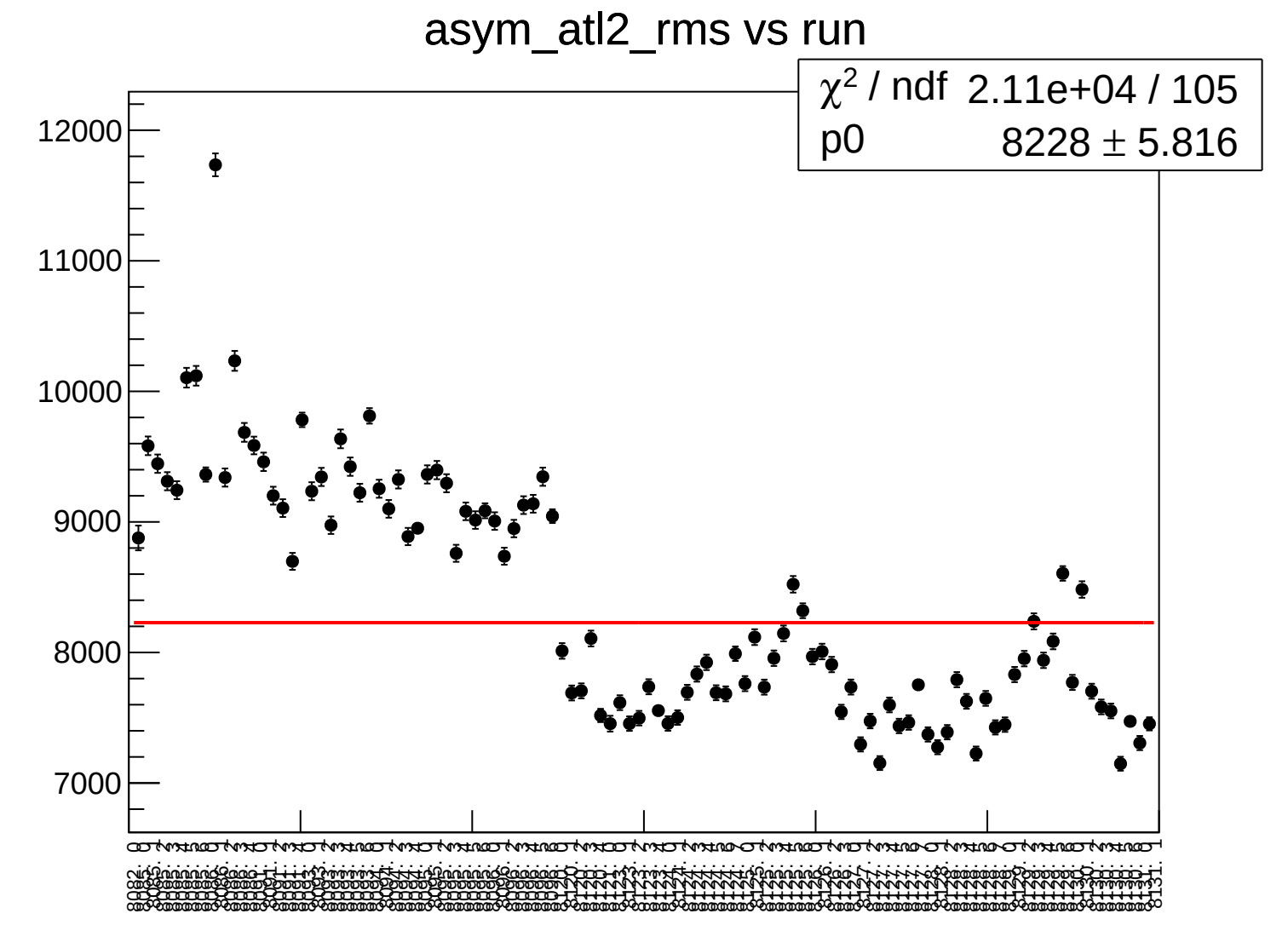

asym_atl2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 92.38 / 104
p0 1.2e+04 ± 7970
300
200
100
0
−100
−200
−300
pull
Entries 105
Mean −146.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

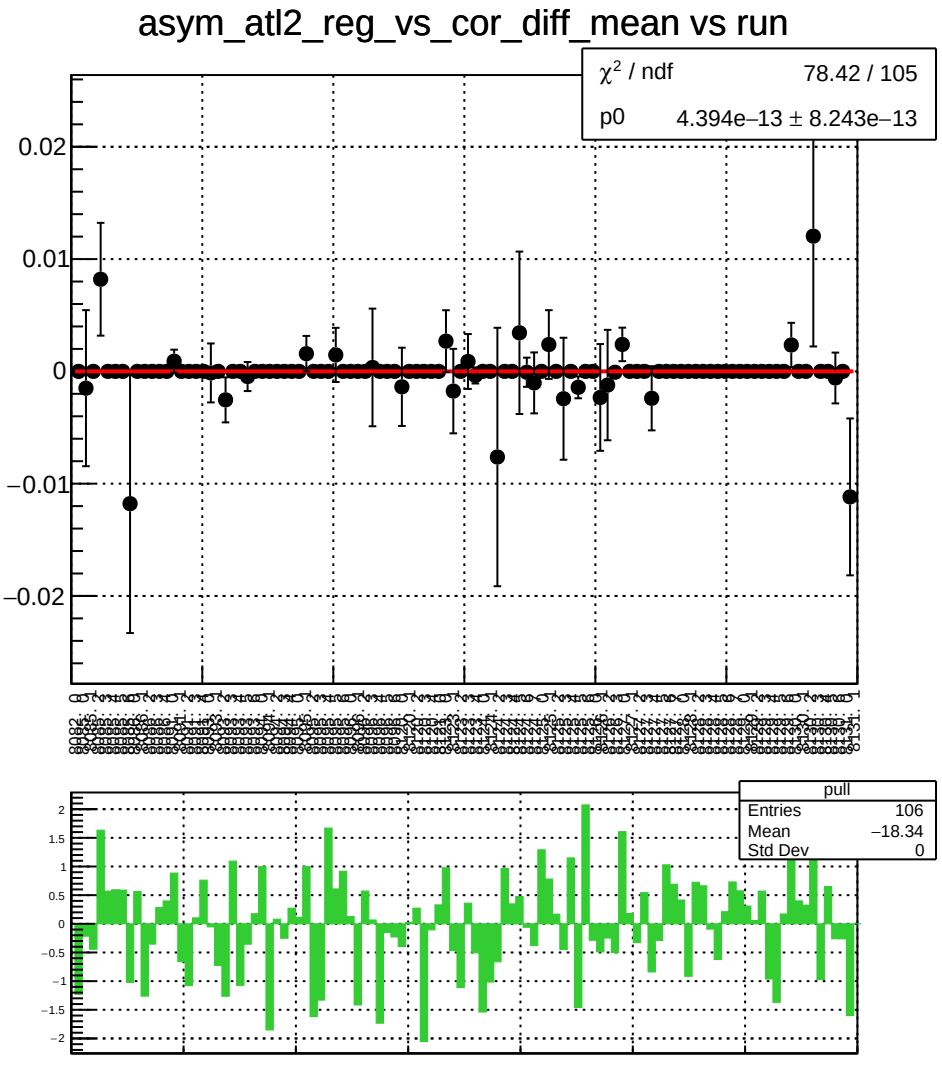

pull1D
Entries 105
Mean 0.008362
Std Dev 0.9379
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

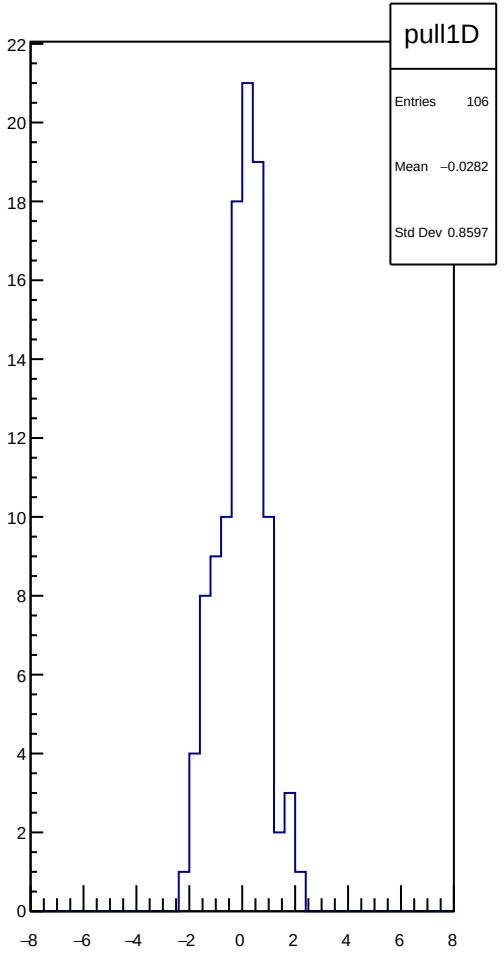

asym_atl2_eigen_dit_correction_rms vs run
χ² / ndf 1.717e+04 / 104
p0 7964 ± 5.636
11000
10500
10000
9500
9000
8500
8000
7500
7000
6500

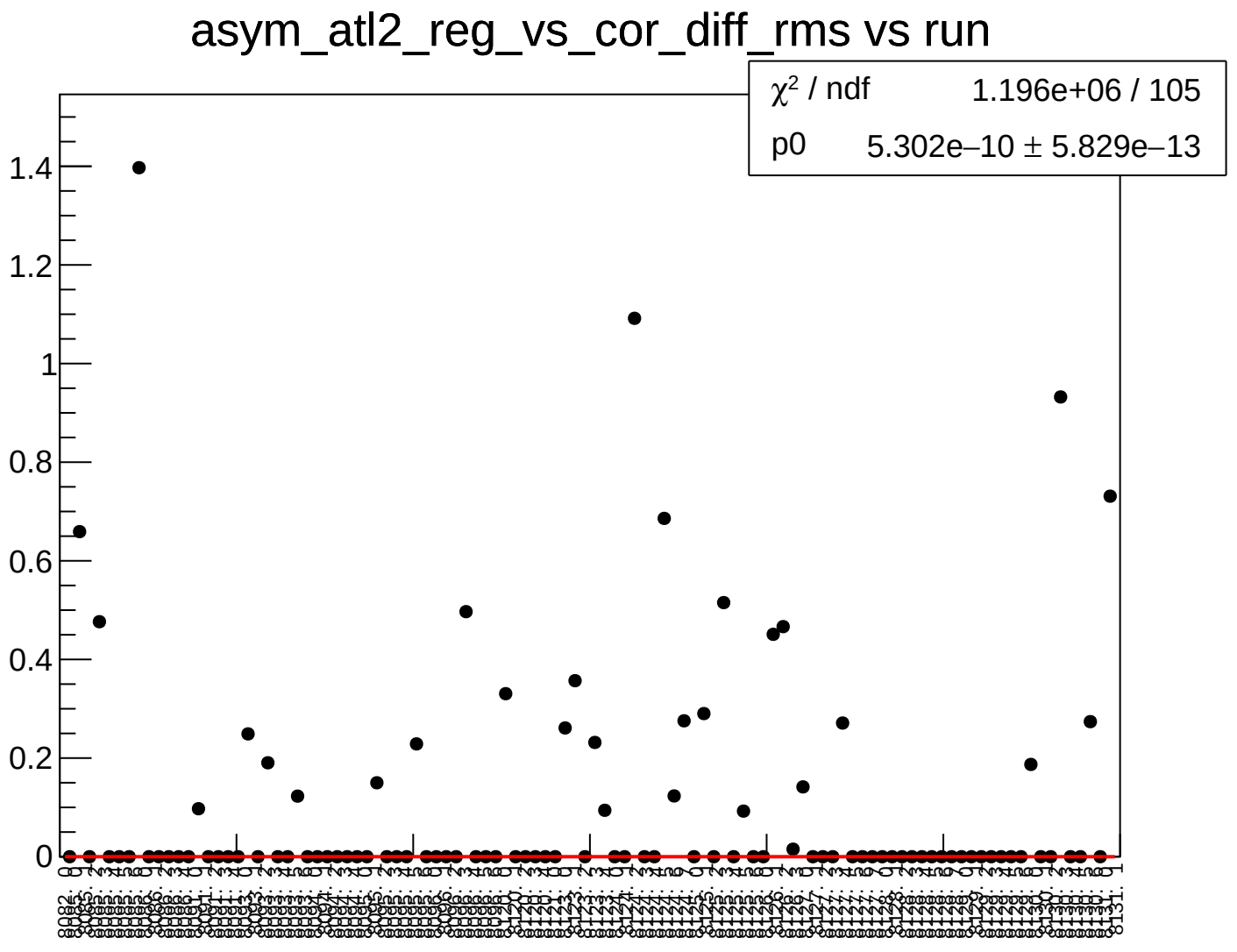

asym_atl2_mean vs run
×10^3
χ² / ndf 99.6 / 105
p0 −1.641e+04 ± 8224
300
200
100
0
−100
−200
−300
−400
pull
Entries 106
Mean −110.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

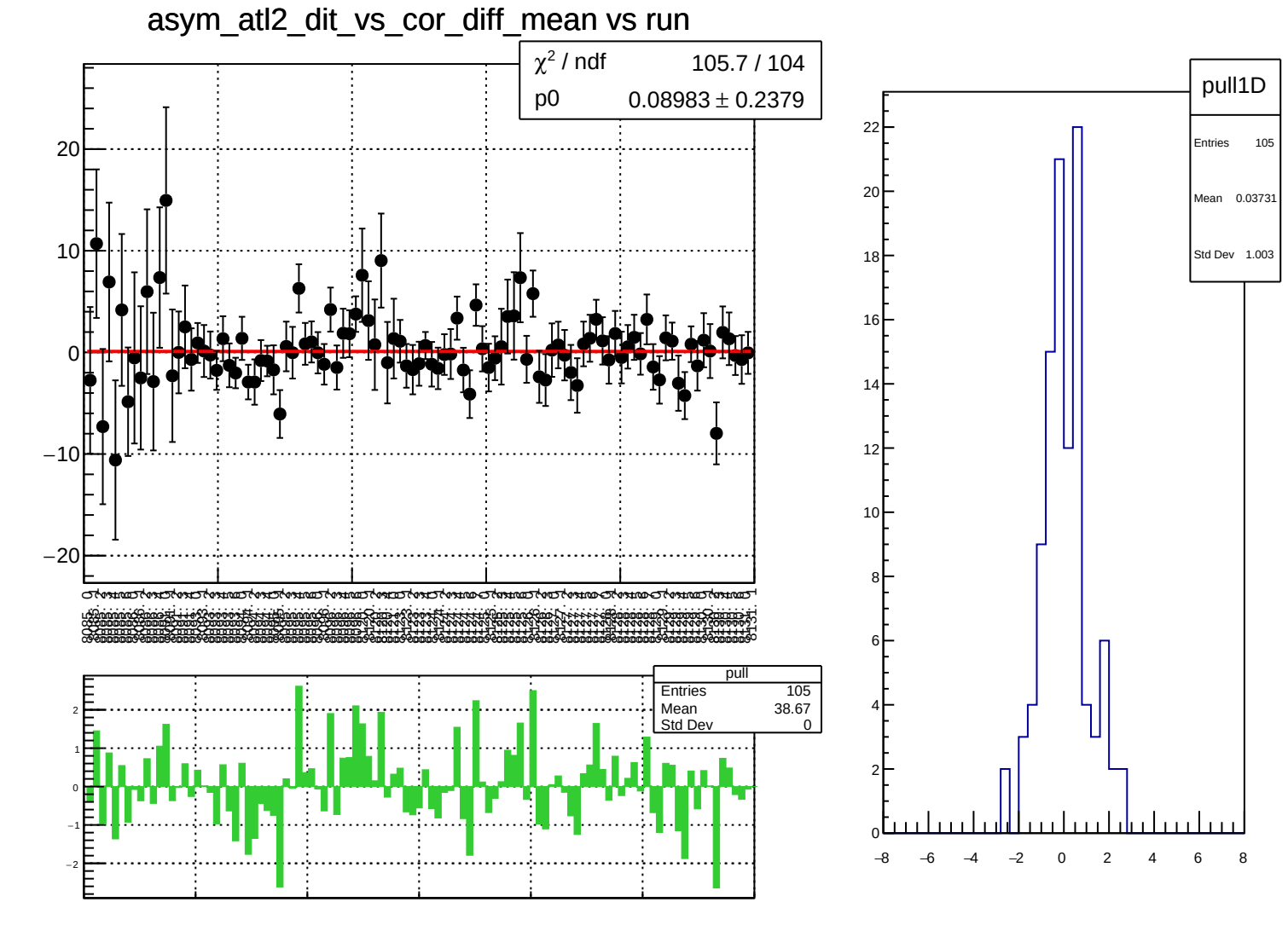

pull1D
Entries 106
Mean −0.01131
Std Dev 0.9693
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

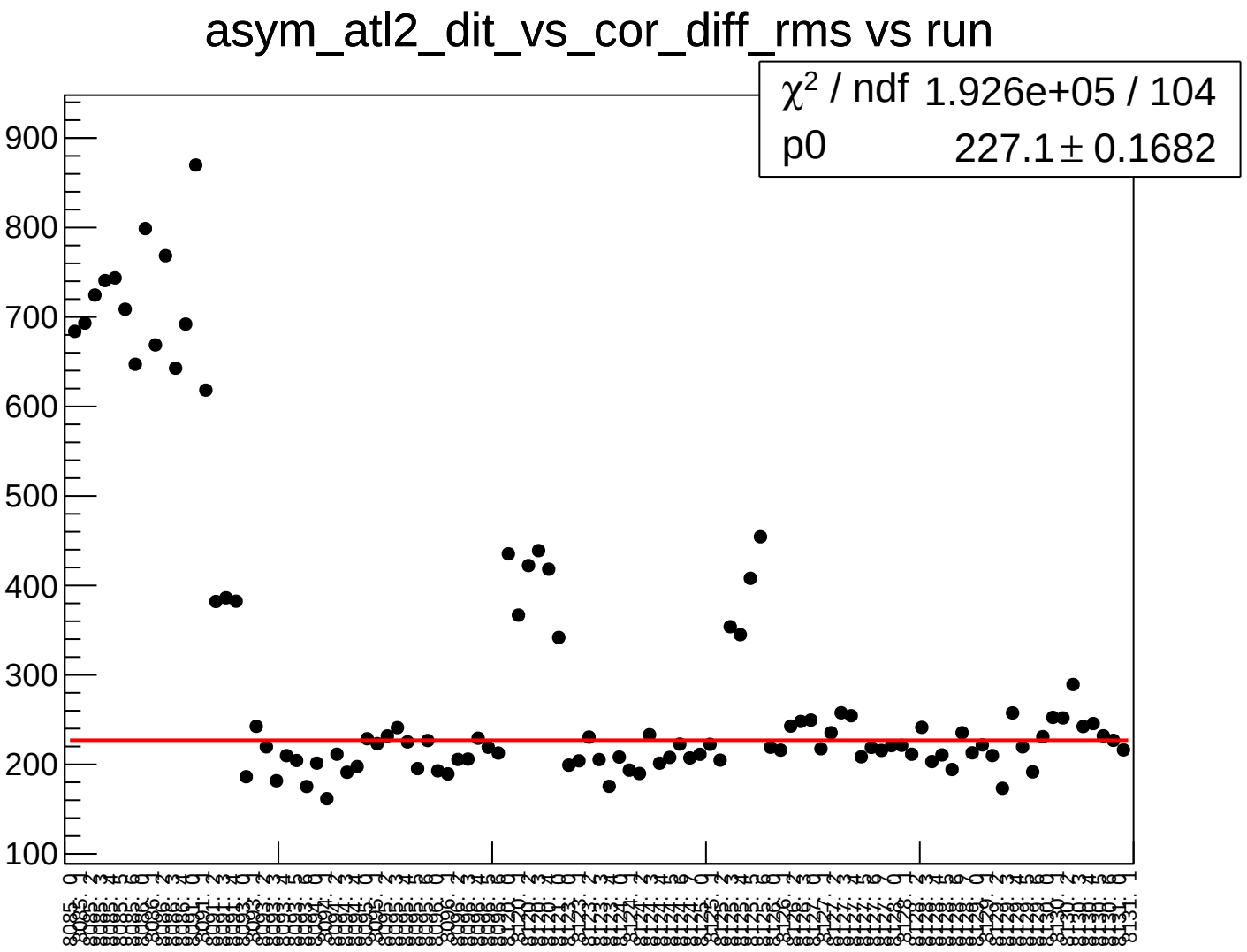

asym_atl2_rms vs run
$\chi^2$ / ndf 2.11e+04 / 105
p0 8228 ± 5.816
12000
11000
10000
9000
8000
7000

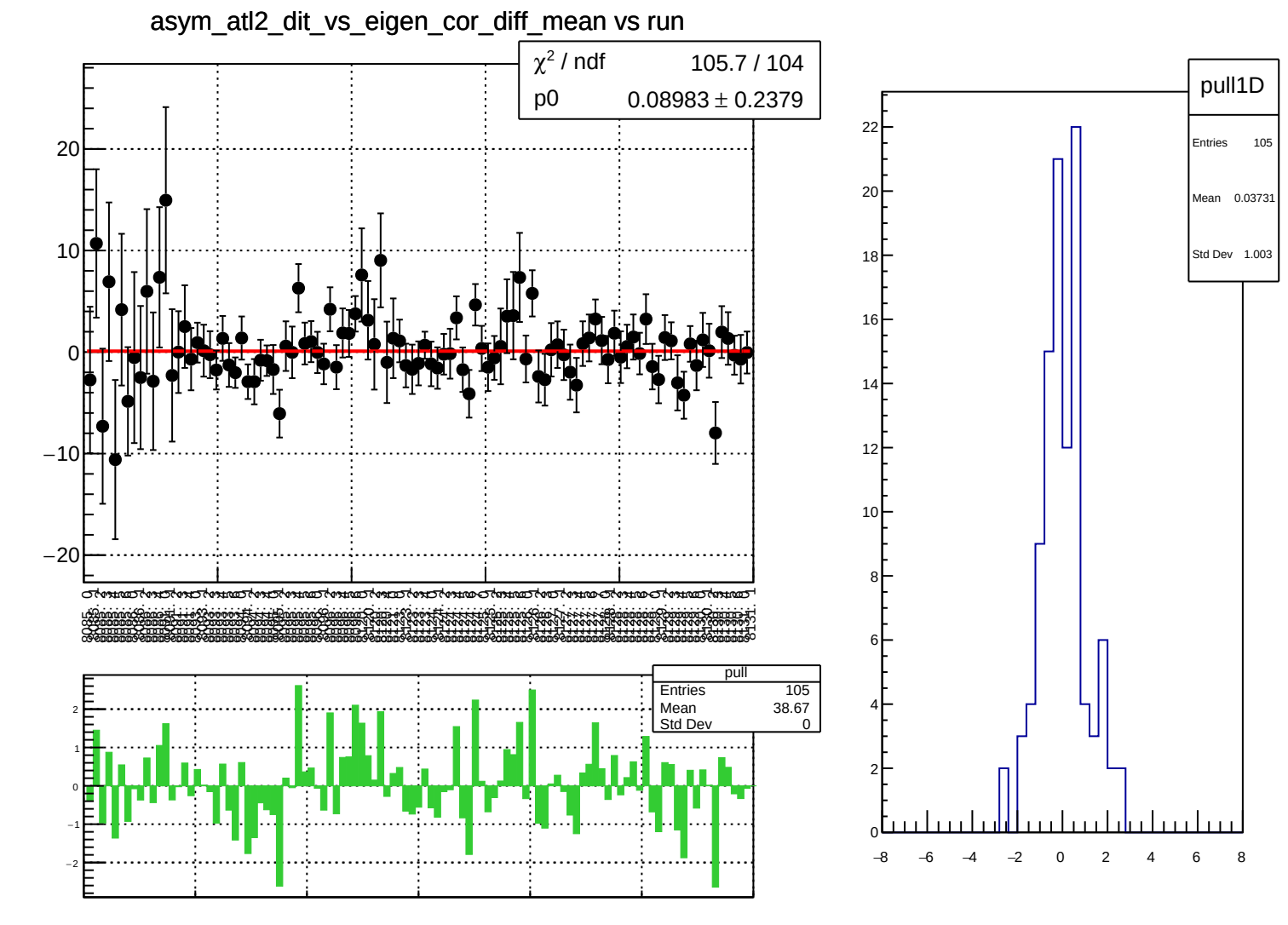

asym_atl2_reg_vs_cor_diff_mean vs run
χ² / ndf 78.42 / 105
p0 4.394e−13 ± 8.243e−13
0.02
0.01
0
−0.01
−0.02
pull
Entries 106
Mean −18.34
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

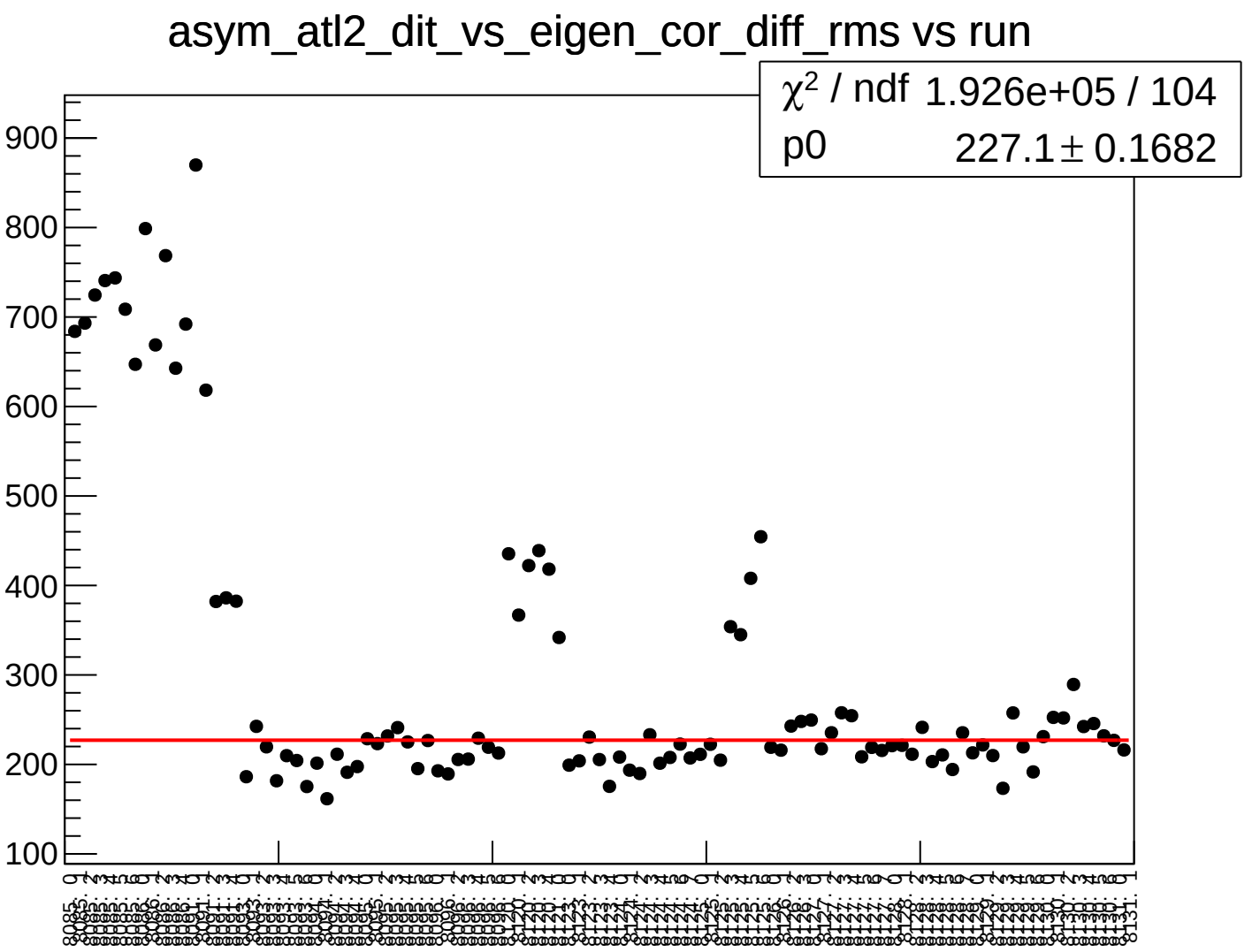

pull1D
Entries 106
Mean −0.0282
Std Dev 0.8597
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

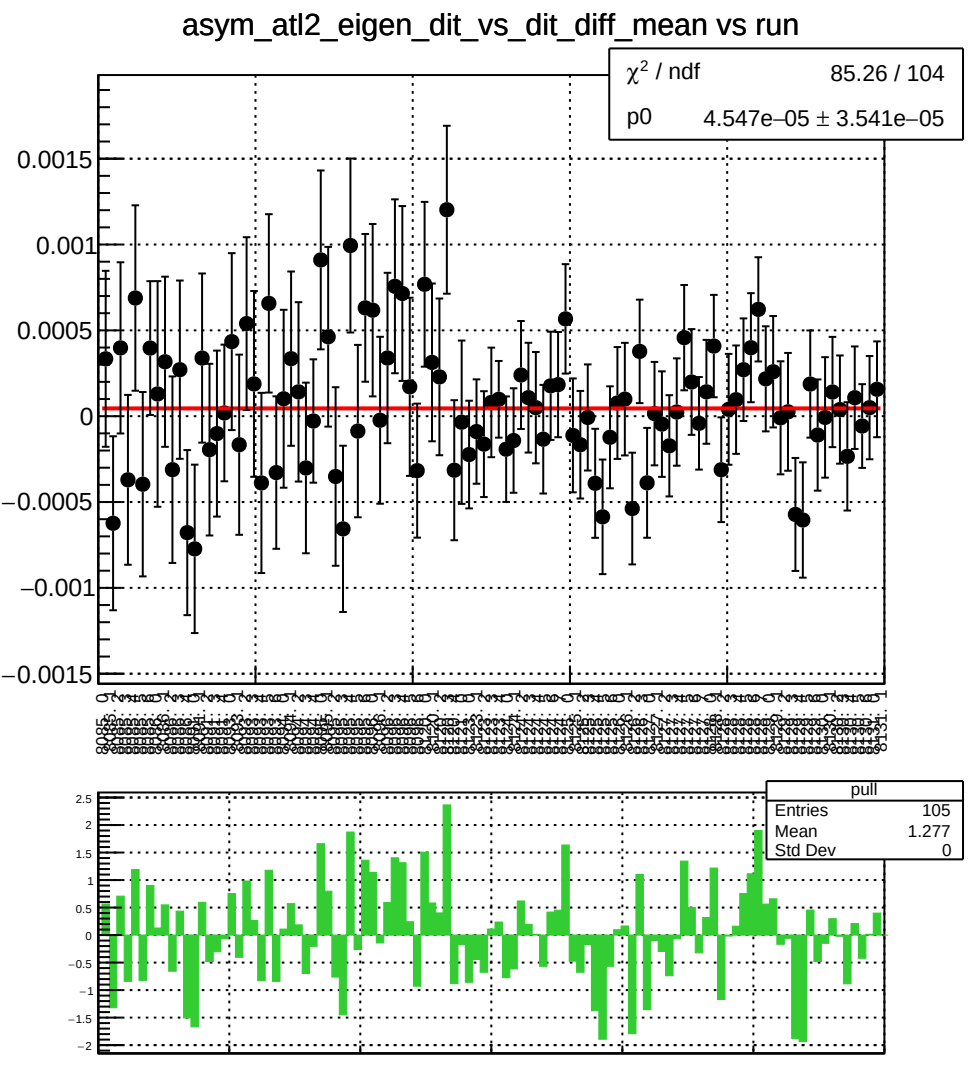

asym_atl2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.196e+06 / 105
p0 5.302e−10 ± 5.829e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

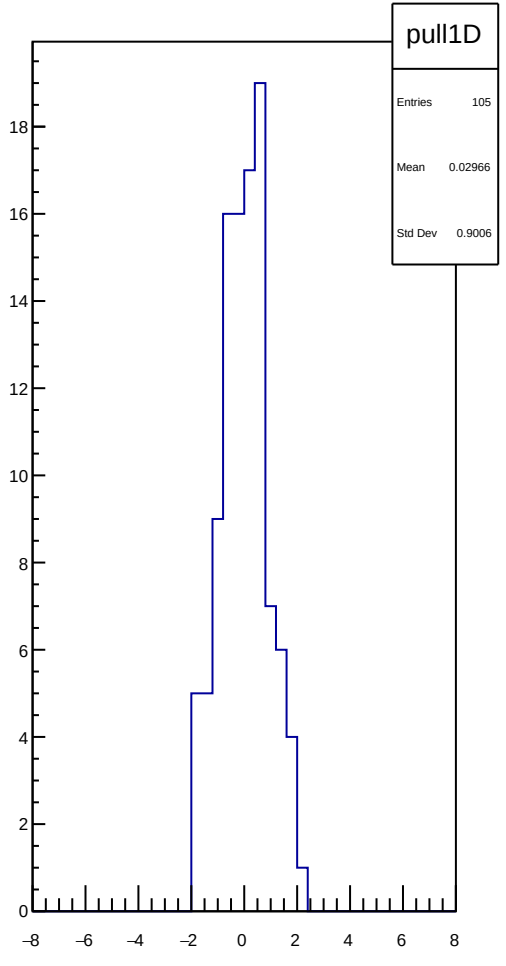

asym_atl2_dit_vs_cor_diff_mean vs run
χ² / ndf 105.7 / 104
p0 0.08983 ± 0.2379
pull
Entries 105
Mean 38.67
Std Dev 0
pull1D
Entries 105
Mean 0.03731
Std Dev 1.003

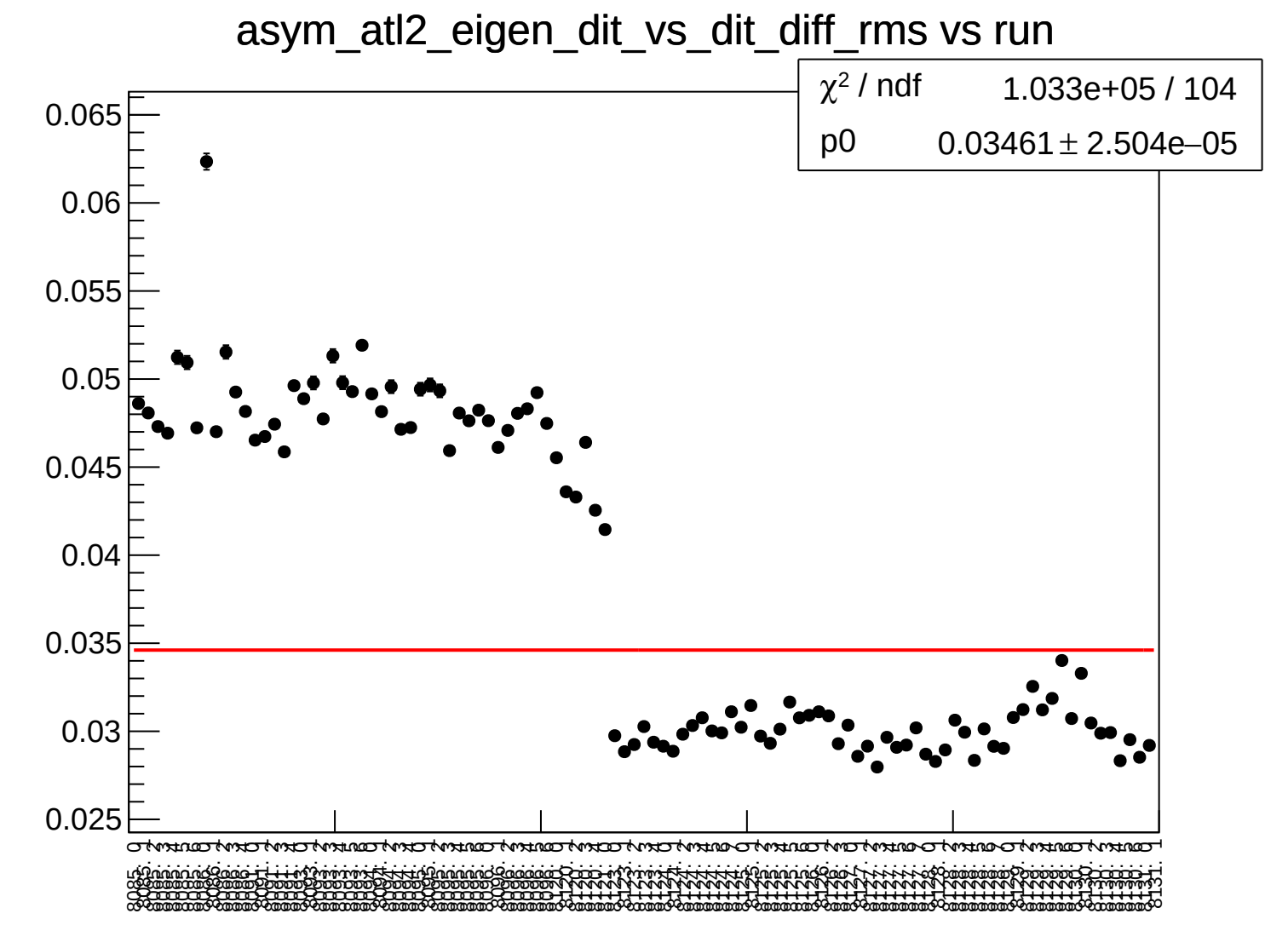

asym_atl2_dit_vs_cor_diff_rms vs run
χ² / ndf 1.926e+05 / 104
p0 227.1 ± 0.1682
900
800
700
600
500
400
300
200
100

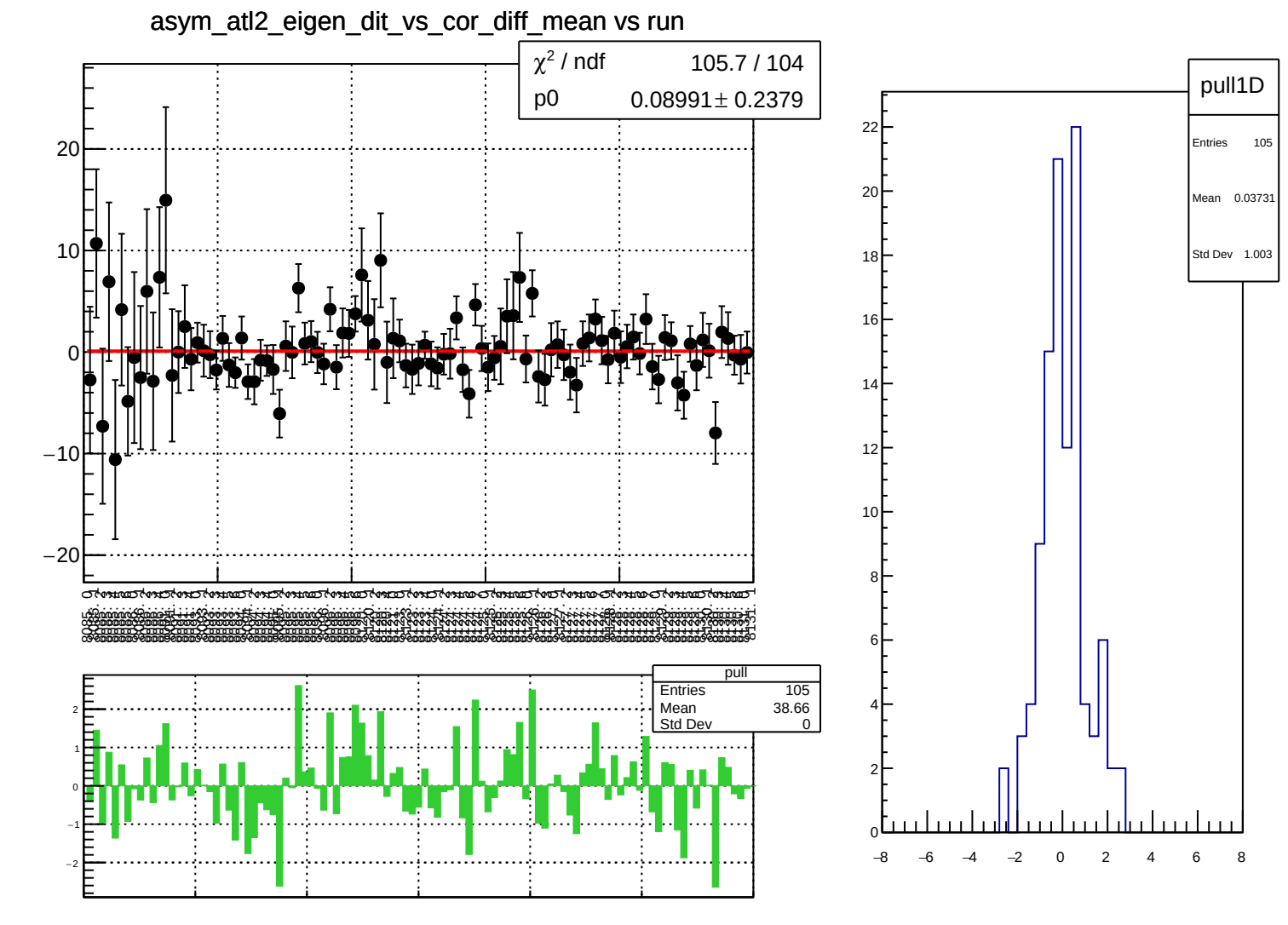

asym_atl2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.7 / 104
p0 0.08983 ± 0.2379
pull
Entries 105
Mean 38.67
Std Dev 0
pull1D
Entries 105
Mean 0.03731
Std Dev 1.003

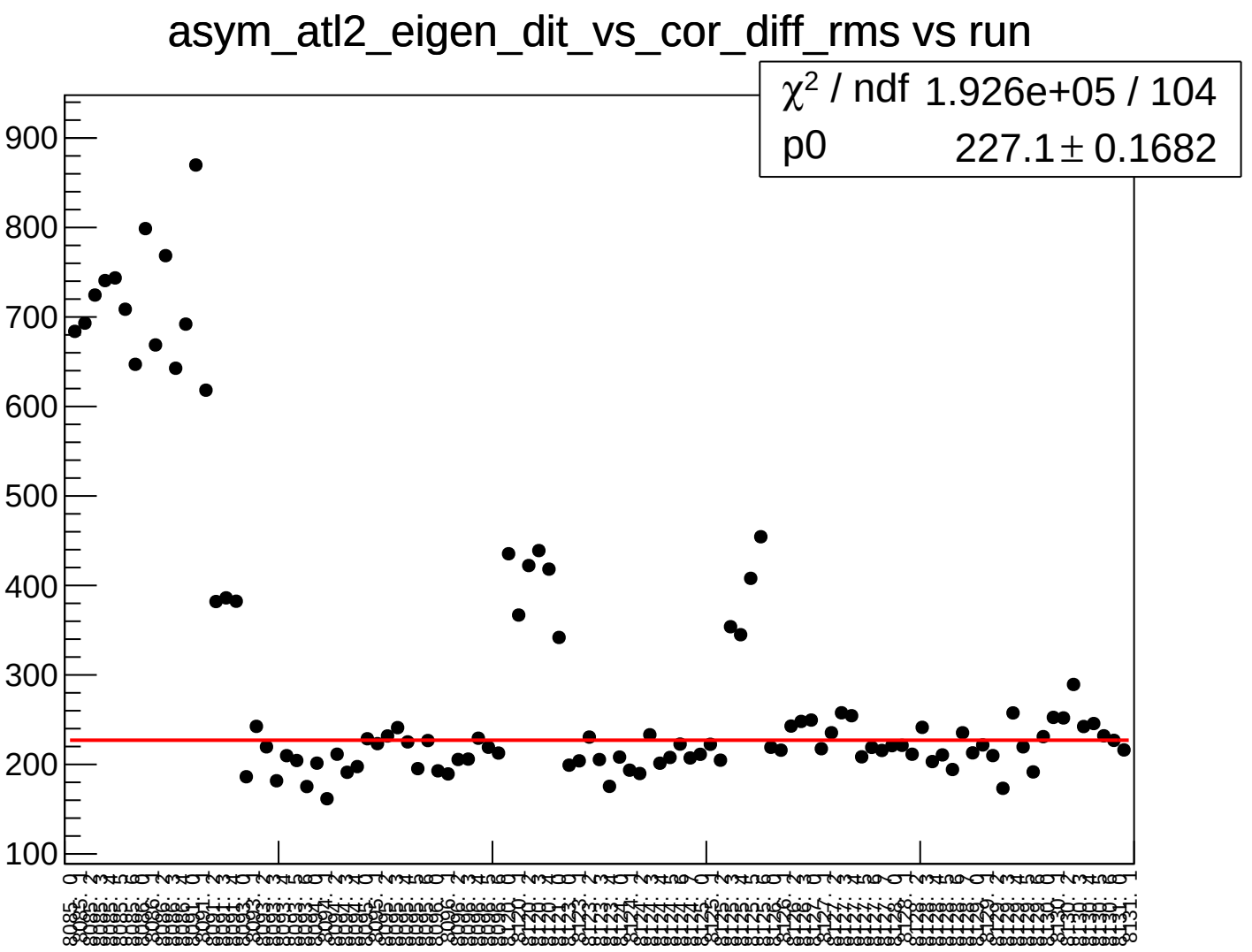

asym_atl2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.926e+05 / 104
p0 227.1 ± 0.1682
900
800
700
600
500
400
300
200
100

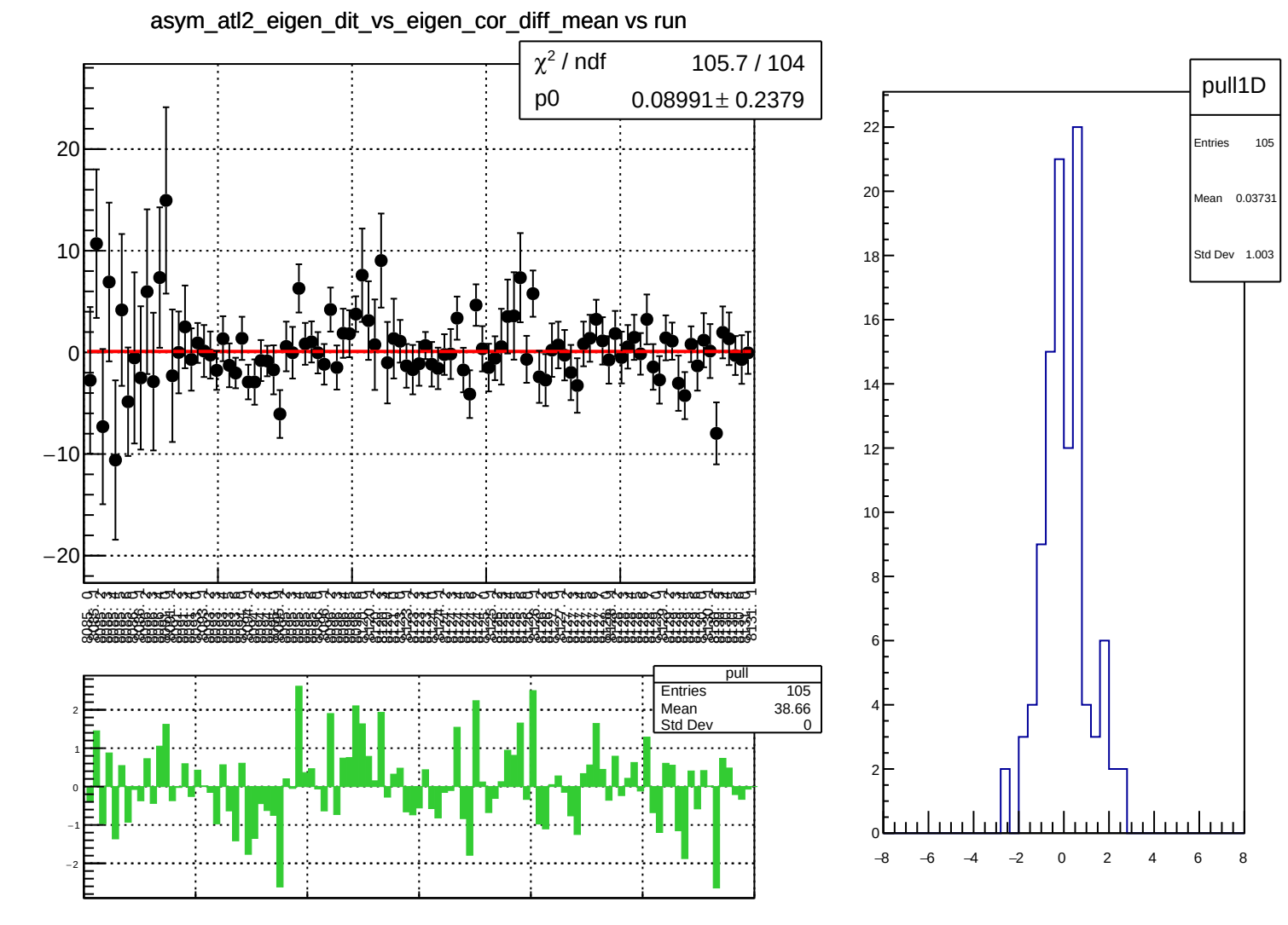

asym_atl2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 85.26 / 104
p0 4.547e−05 ± 3.541e−05
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 105
Mean 1.277
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

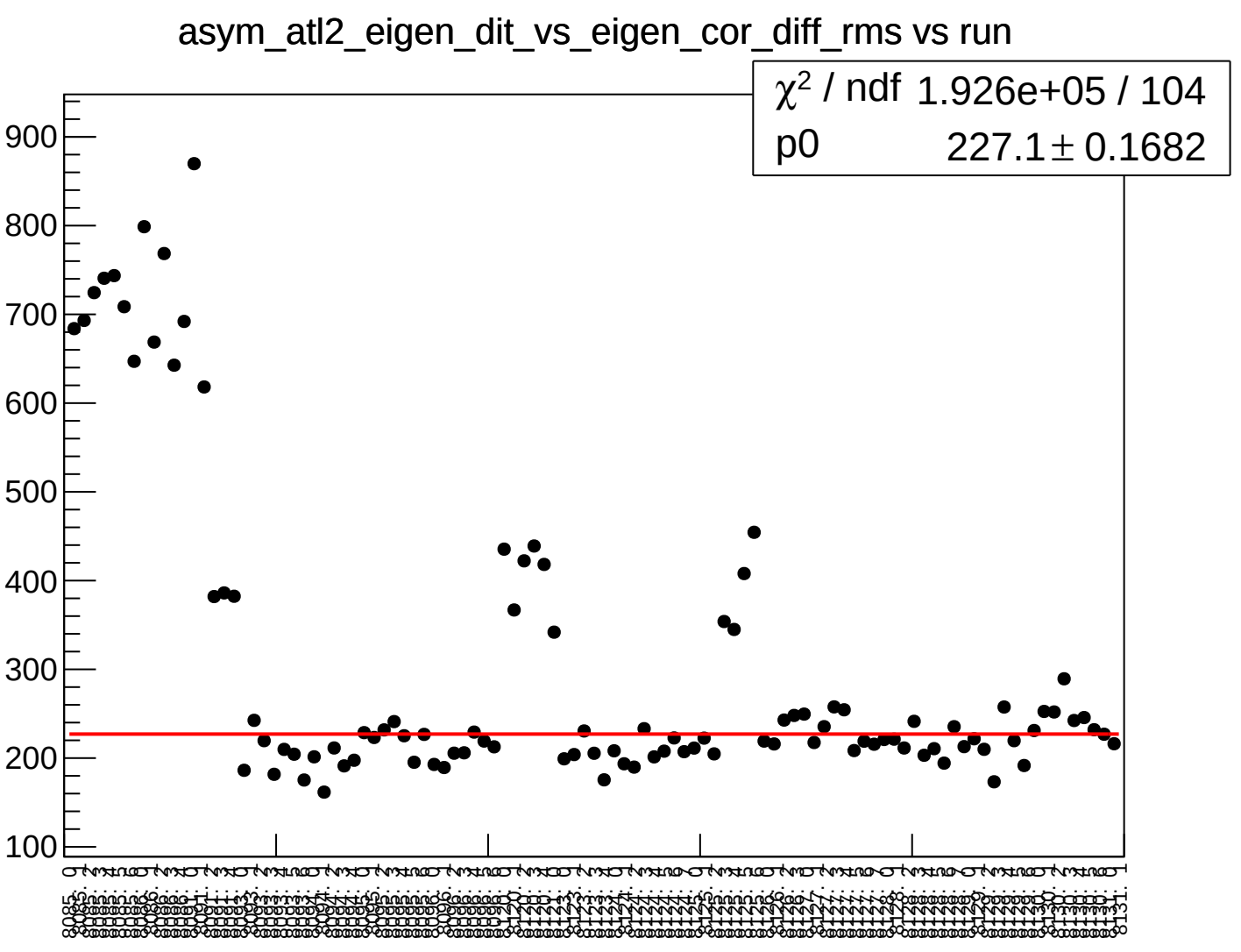

pull1D
Entries 105
Mean 0.02966
Std Dev 0.9006
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

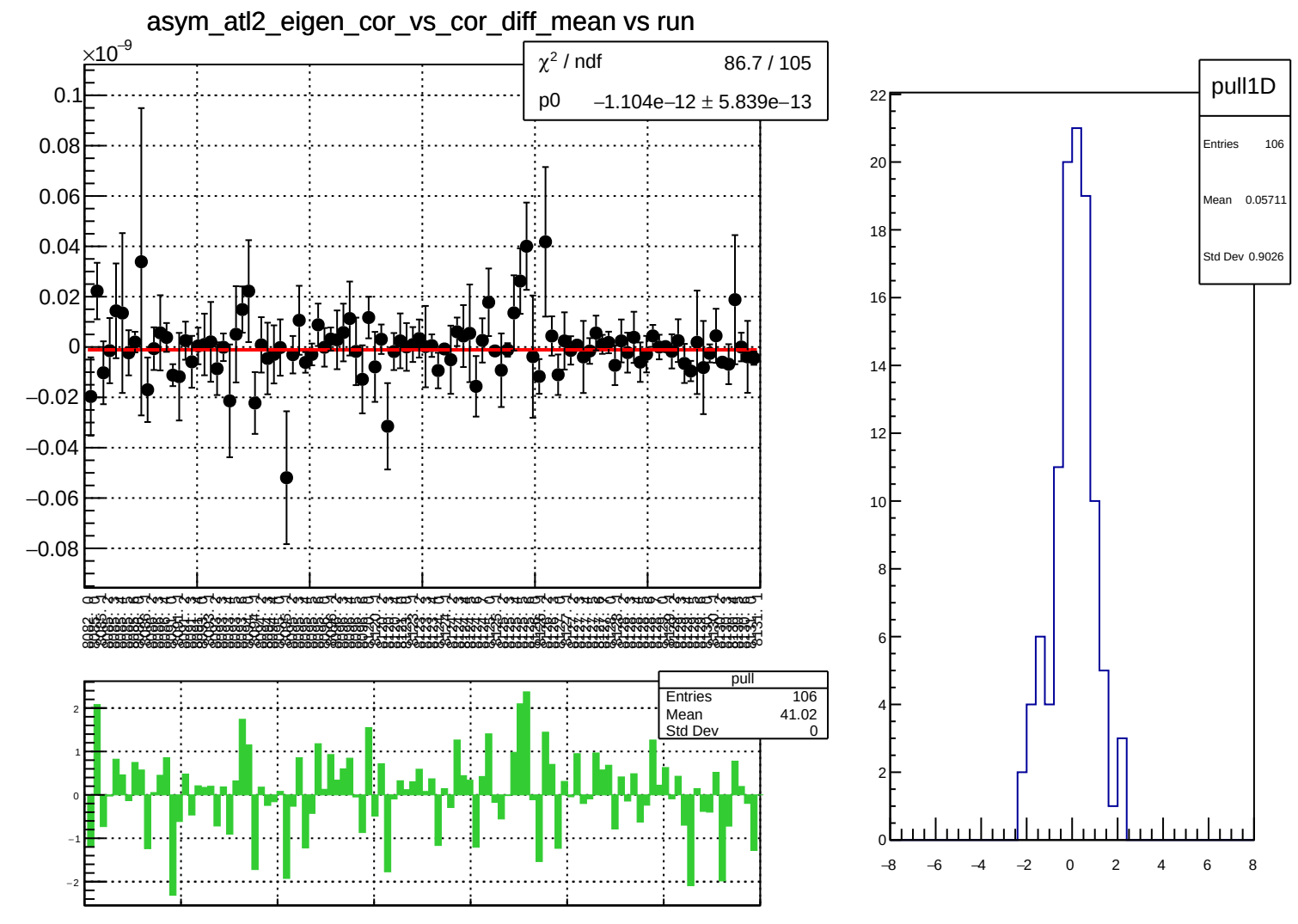

asym_atl2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.033e+05 / 104
p0 0.03461 ± 2.504e–05
0.065
0.06
0.055
0.05
0.045
0.04
0.035
0.03
0.025

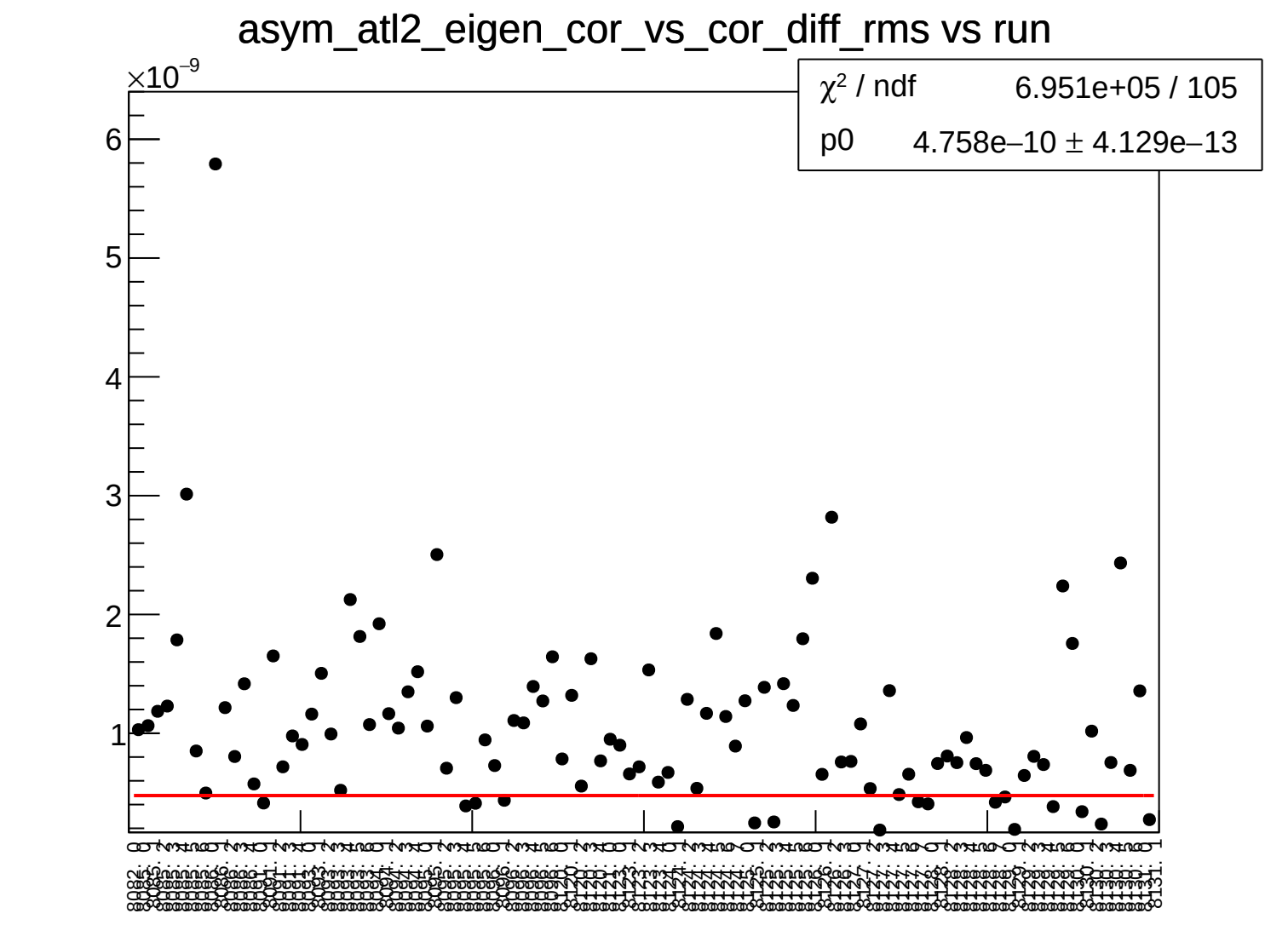

asym_atl2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 105.7 / 104
p0 0.08991 ± 0.2379
pull
Entries 105
Mean 38.66
Std Dev 0
pull1D
Entries 105
Mean 0.03731
Std Dev 1.003

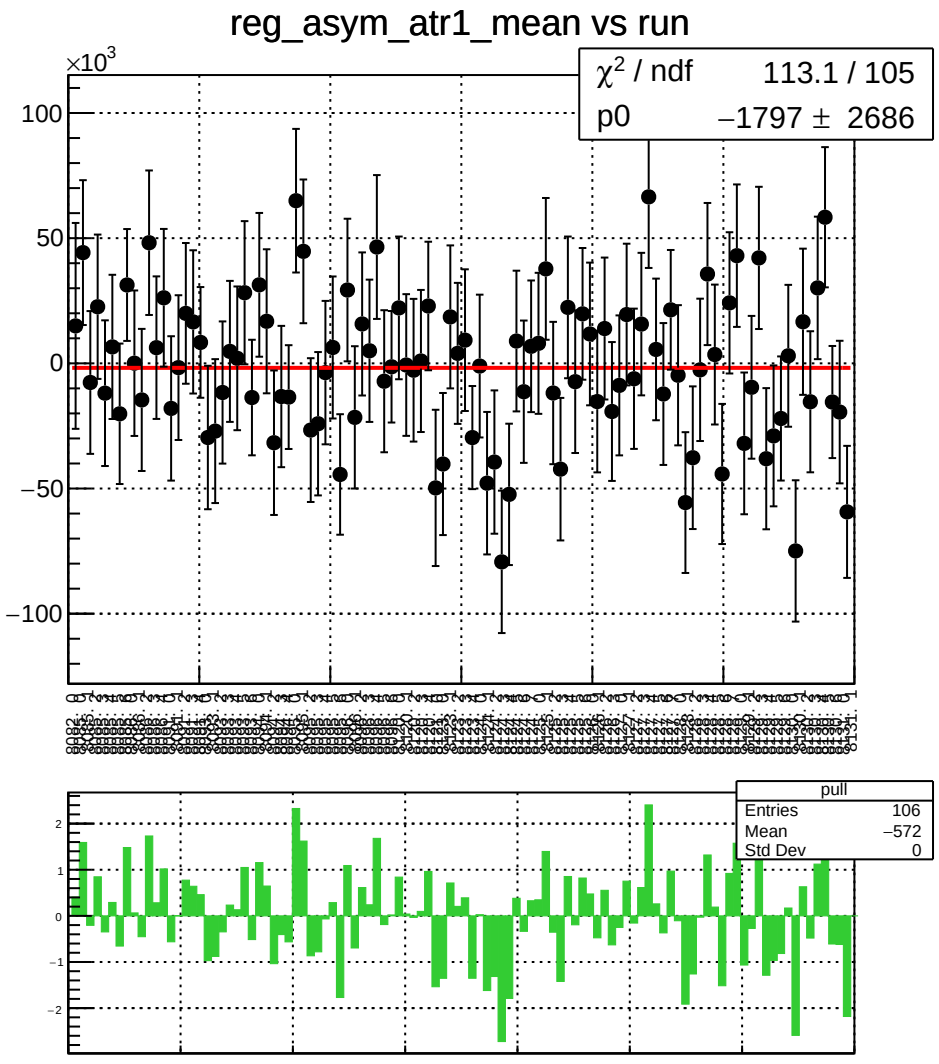

asym_atl2_eigen_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 1.926e+05 / 104
p0 227.1 ± 0.1682
900
800
700
600
500
400
300
200
100

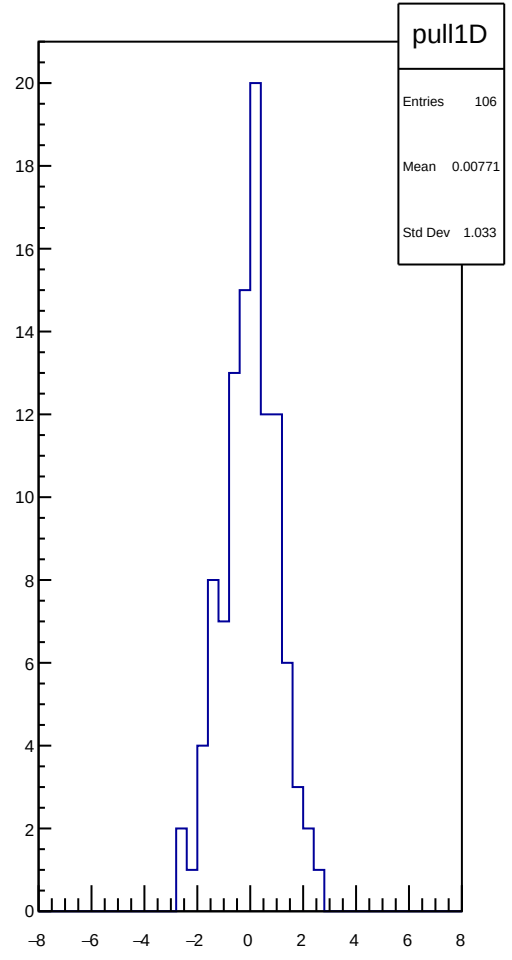

asym_atl2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.7 / 104
p0 0.08991 ± 0.2379
pull
Entries 105
Mean 38.66
Std Dev 0
pull1D
Entries 105
Mean 0.03731
Std Dev 1.003

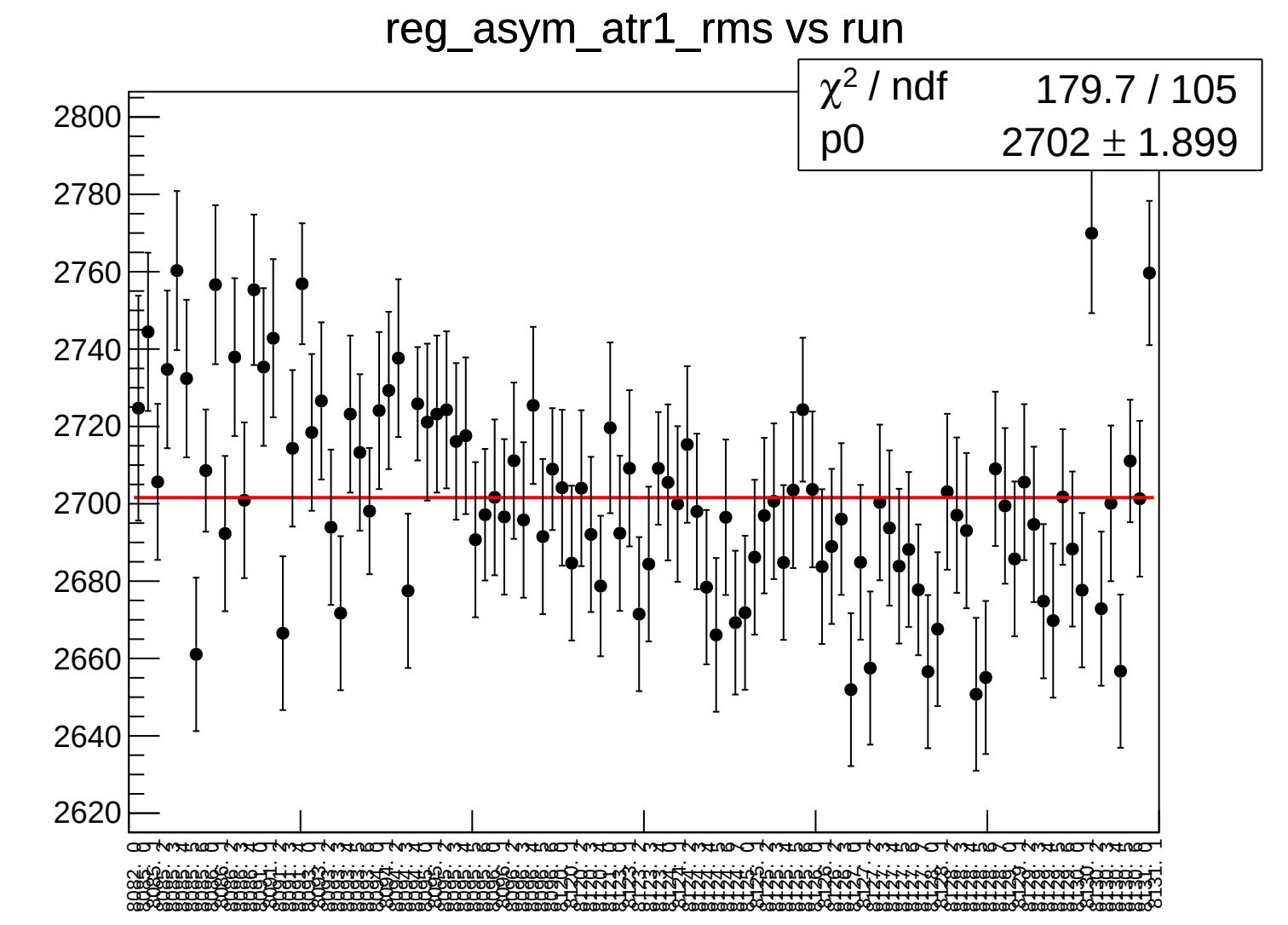

asym_atl2_eigen_dit_vs_eigen_cor_diff_rms vs run
$\chi^2$ / ndf 1.926e+05 / 104
p0 227.1 ± 0.1682
900
800
700
600
500
400
300
200
100

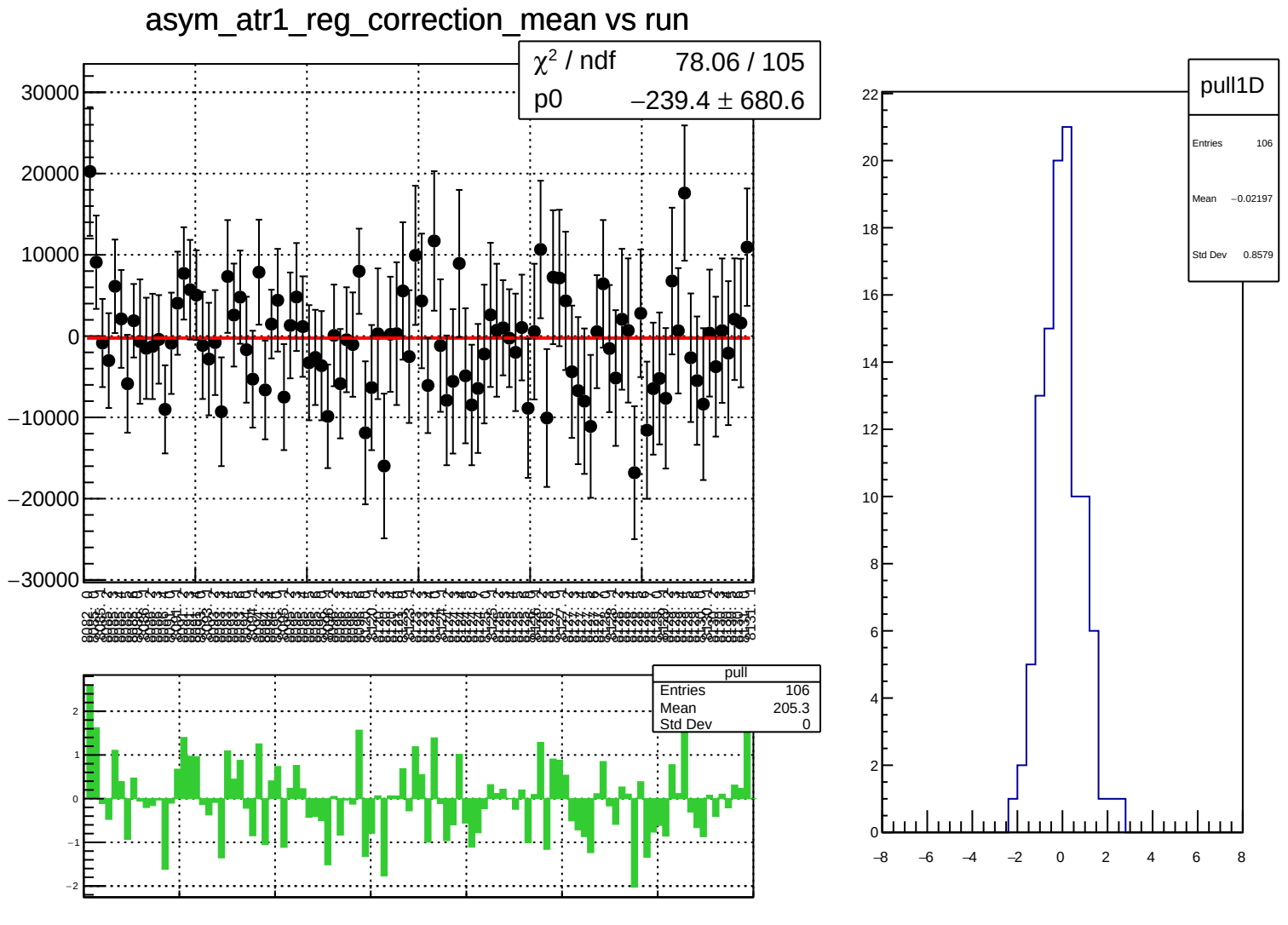

asym_atl2_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 86.7 / 105
p0 −1.104e−12 ± 5.839e−13
pull
Entries 106
Mean 41.02
Std Dev 0
pull1D
Entries 106
Mean 0.05711
Std Dev 0.9026

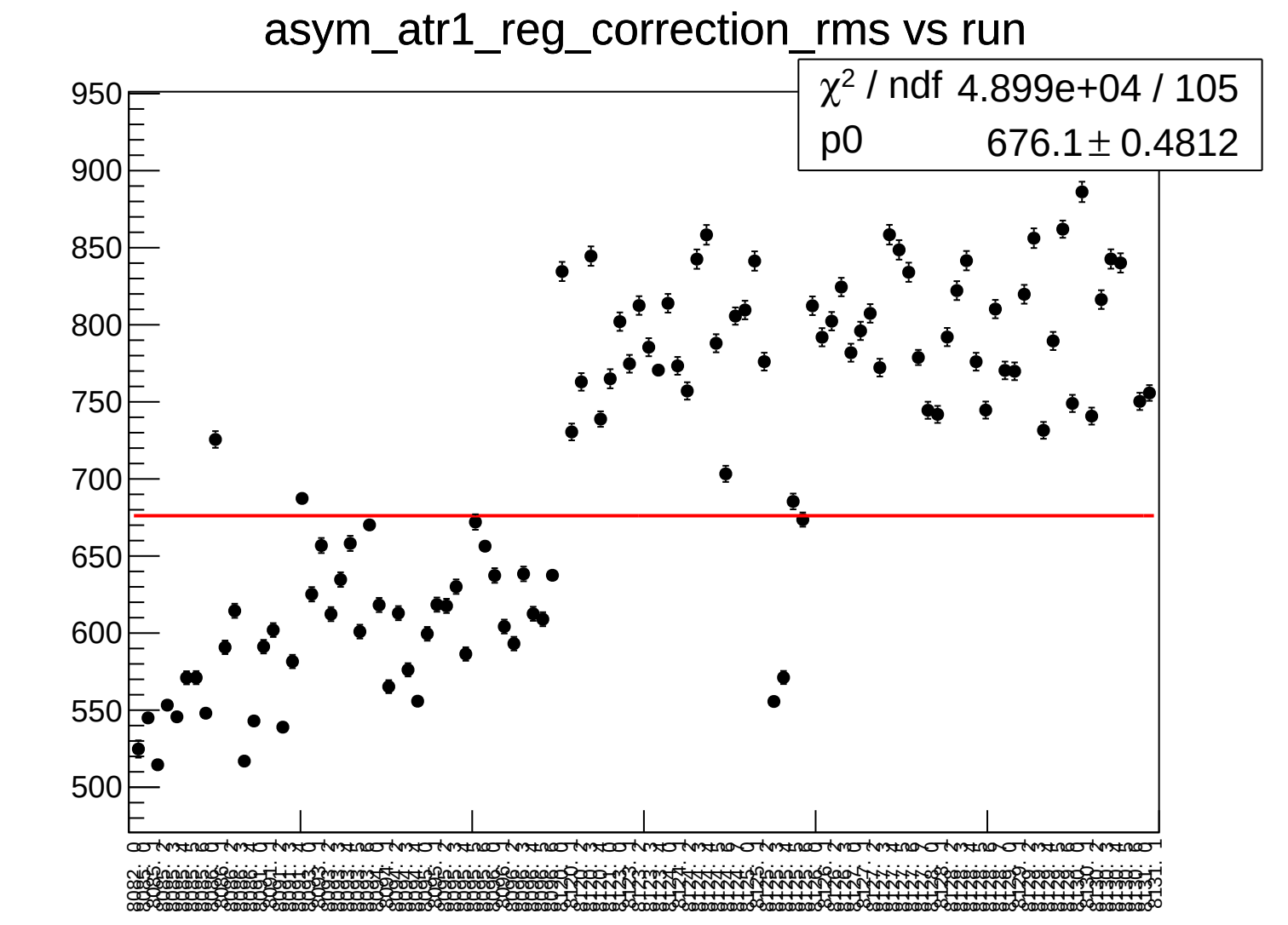

asym_atl2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.951e+05 / 105
p0 4.758e−10 ± 4.129e−13
6
5
4
3
2
1

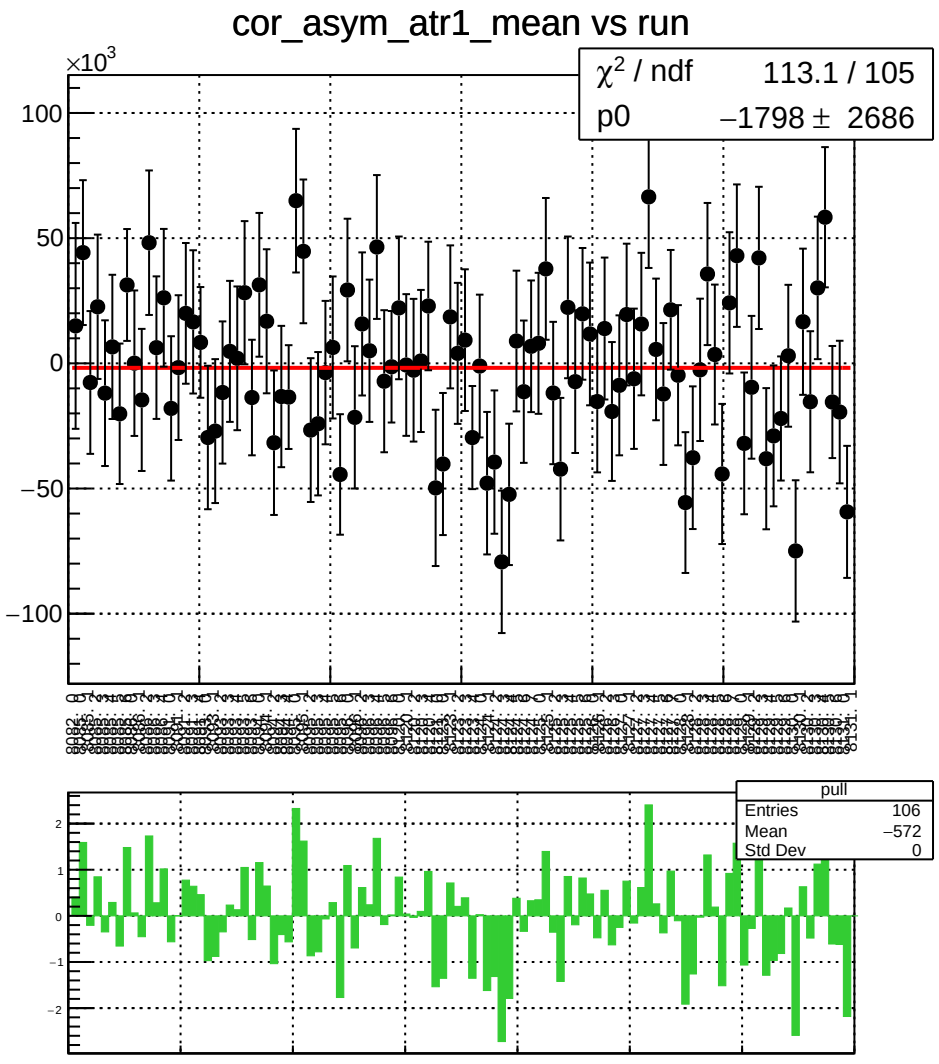

reg_asym_atr1_mean vs run
×10^3
χ² / ndf 113.1 / 105
p0 −1797 ± 2686
100
50
0
−50
−100
pull
Entries 106
Mean −572
Std Dev 0
2
1
0
−1
−2

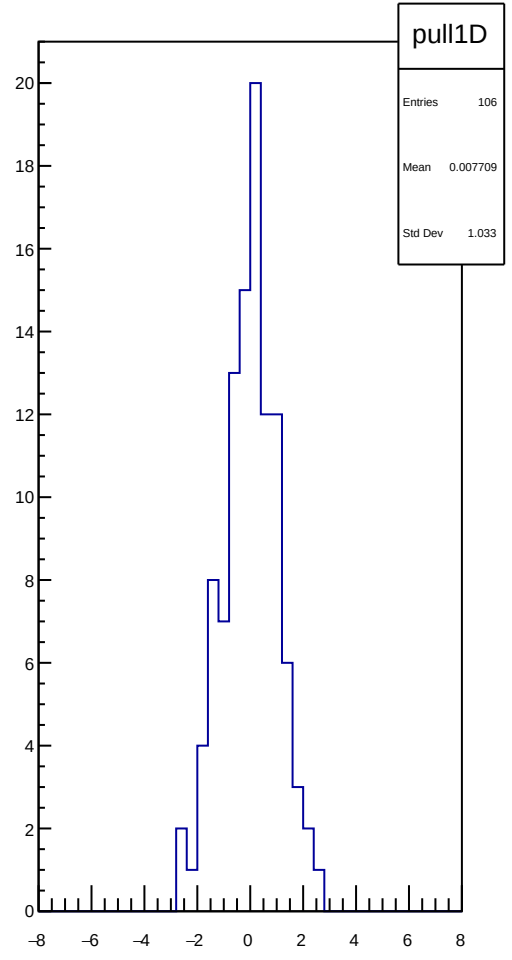

pull1D
Entries 106
Mean 0.00771
Std Dev 1.033
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

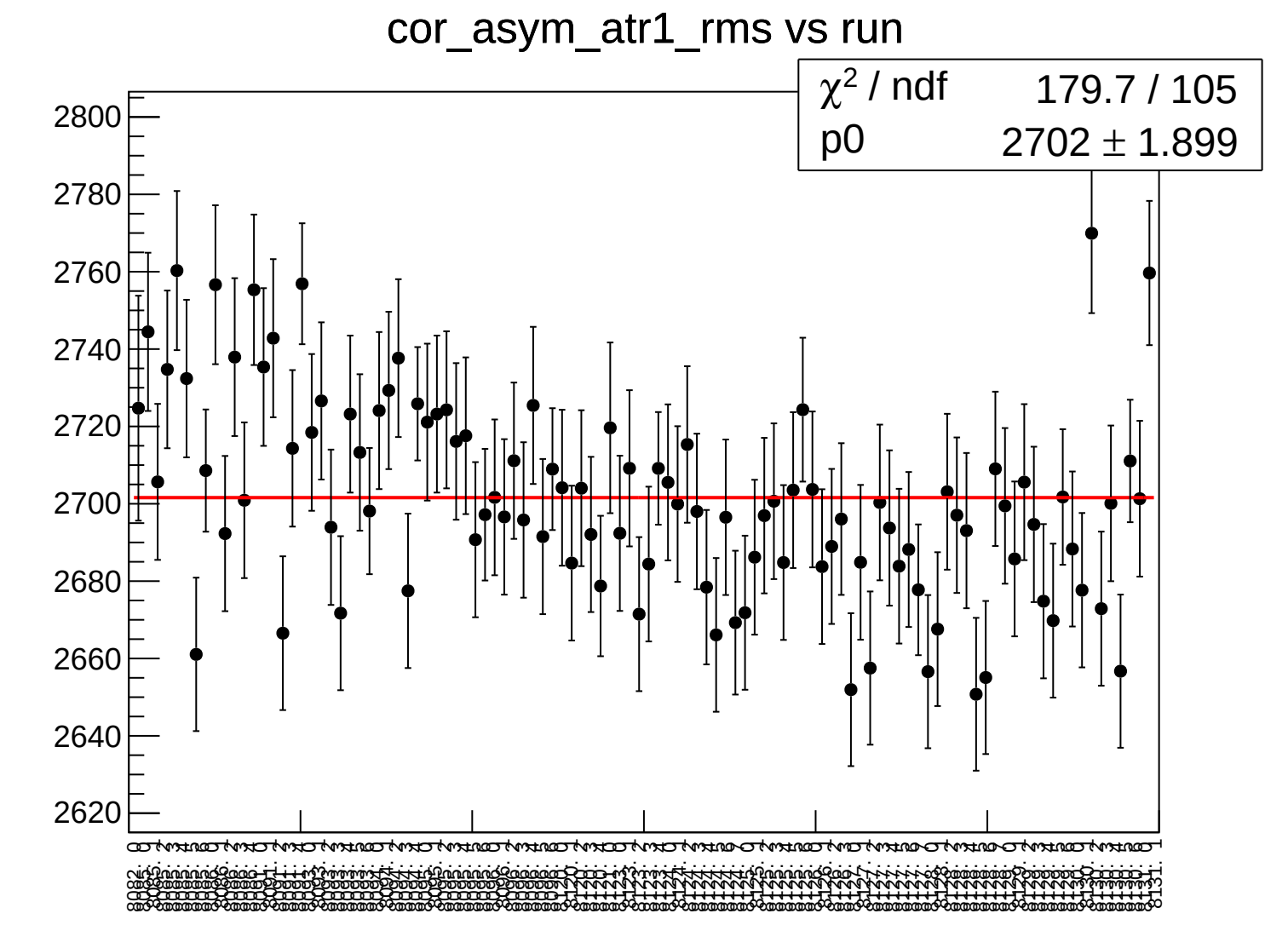

reg_asym_atr1_rms vs run
$\chi^2$ / ndf 179.7 / 105
p0 2702 ± 1.899
2800
2780
2760
2740
2720
2700
2680
2660
2640
2620

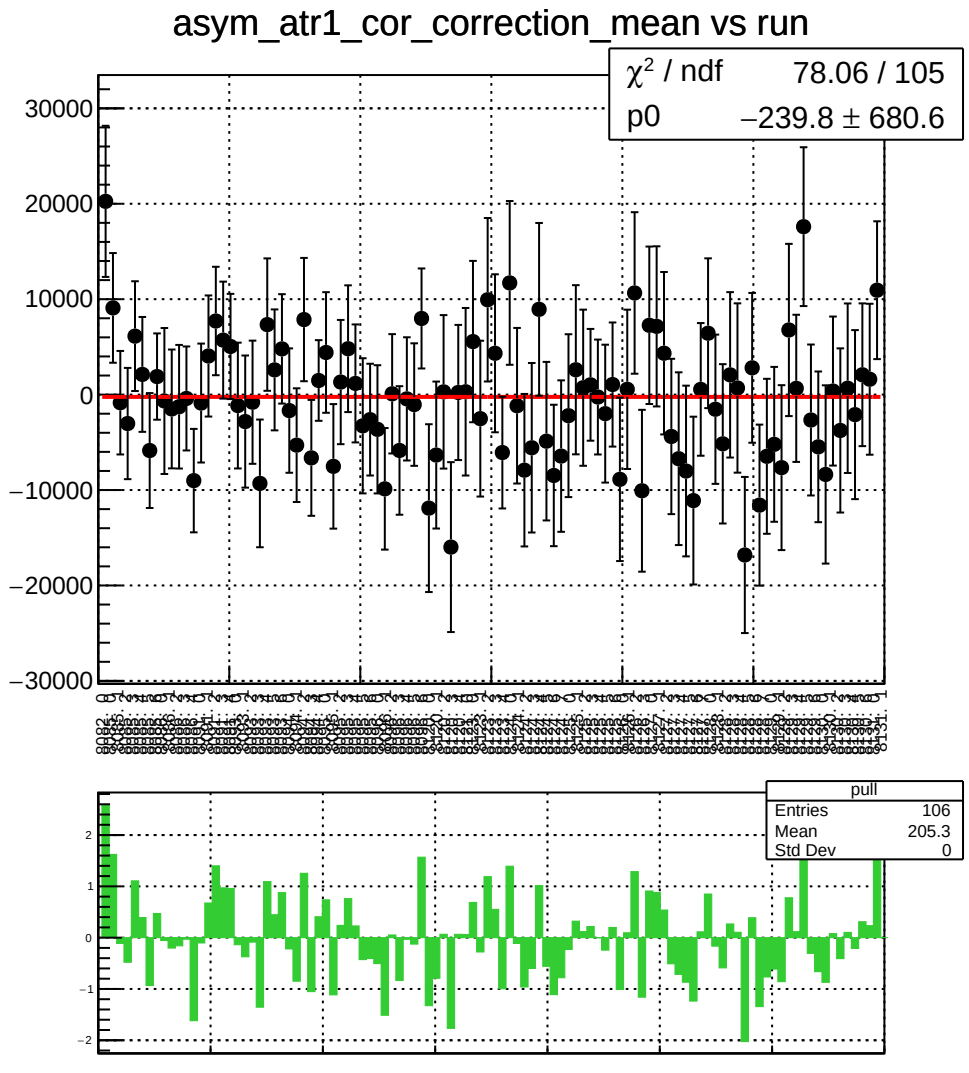

asym_atr1_reg_correction_mean vs run
χ² / ndf 78.06 / 105
p0 −239.4 ± 680.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 106
Mean 205.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 106
Mean −0.02197
Std Dev 0.8579
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

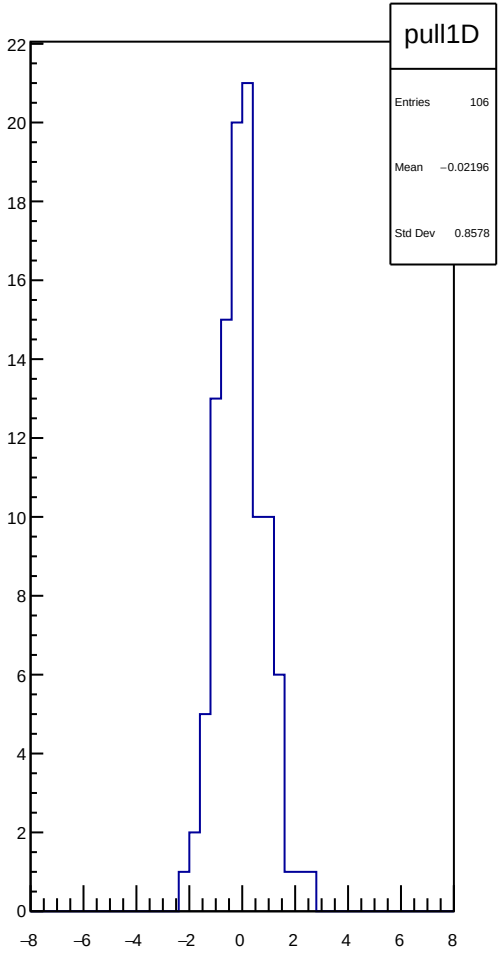

asym_atr1_reg_correction_rms vs run
$\chi^2$ / ndf 4.899e+04 / 105
p0 676.1 ± 0.4812
950
900
850
800
750
700
650
600
550
500

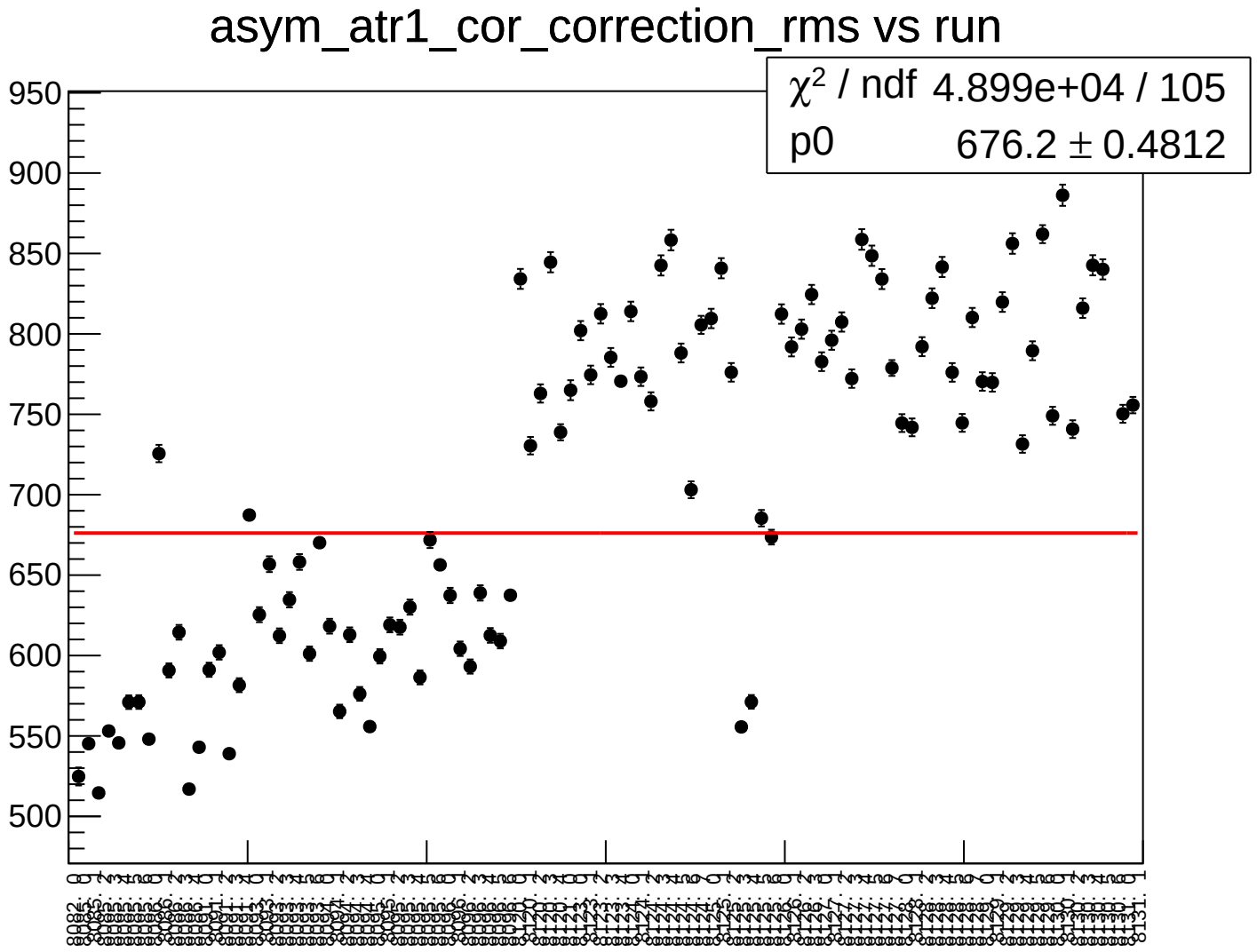

cor_asym_atr1_mean vs run
×10^3
χ^2 / ndf 113.1 / 105
p0 −1798 ± 2686
100
50
0
−50
−100
pull
Entries 106
Mean −572
Std Dev 0
2
1
0
−1
−2

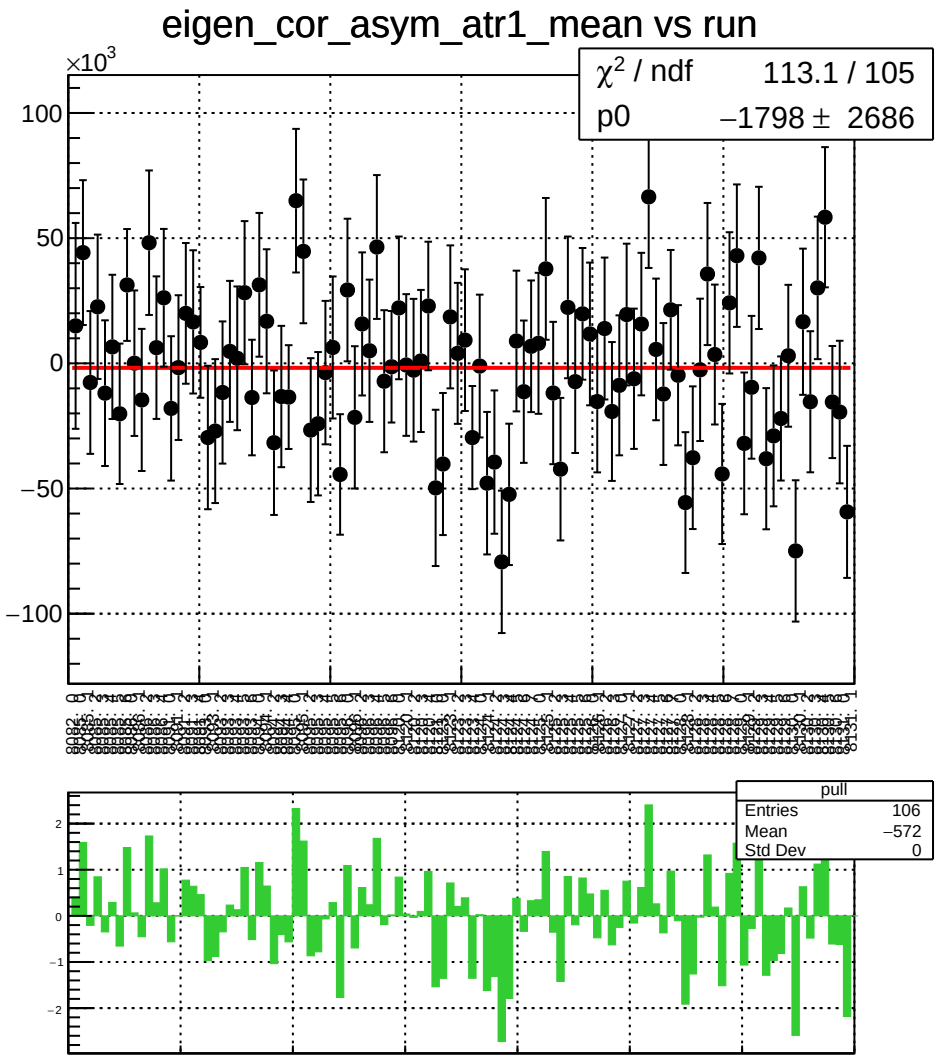

pull1D
Entries 106
Mean 0.007709
Std Dev 1.033
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

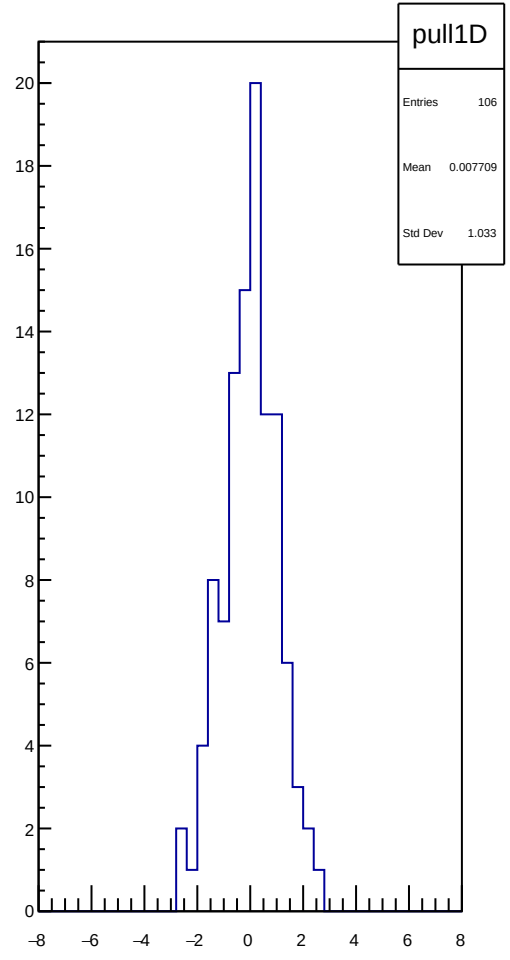

cor_asym_atr1_rms vs run
$\chi^2$ / ndf 179.7 / 105
p0 2702 ± 1.899
2800
2780
2760
2740
2720
2700
2680
2660
2640
2620

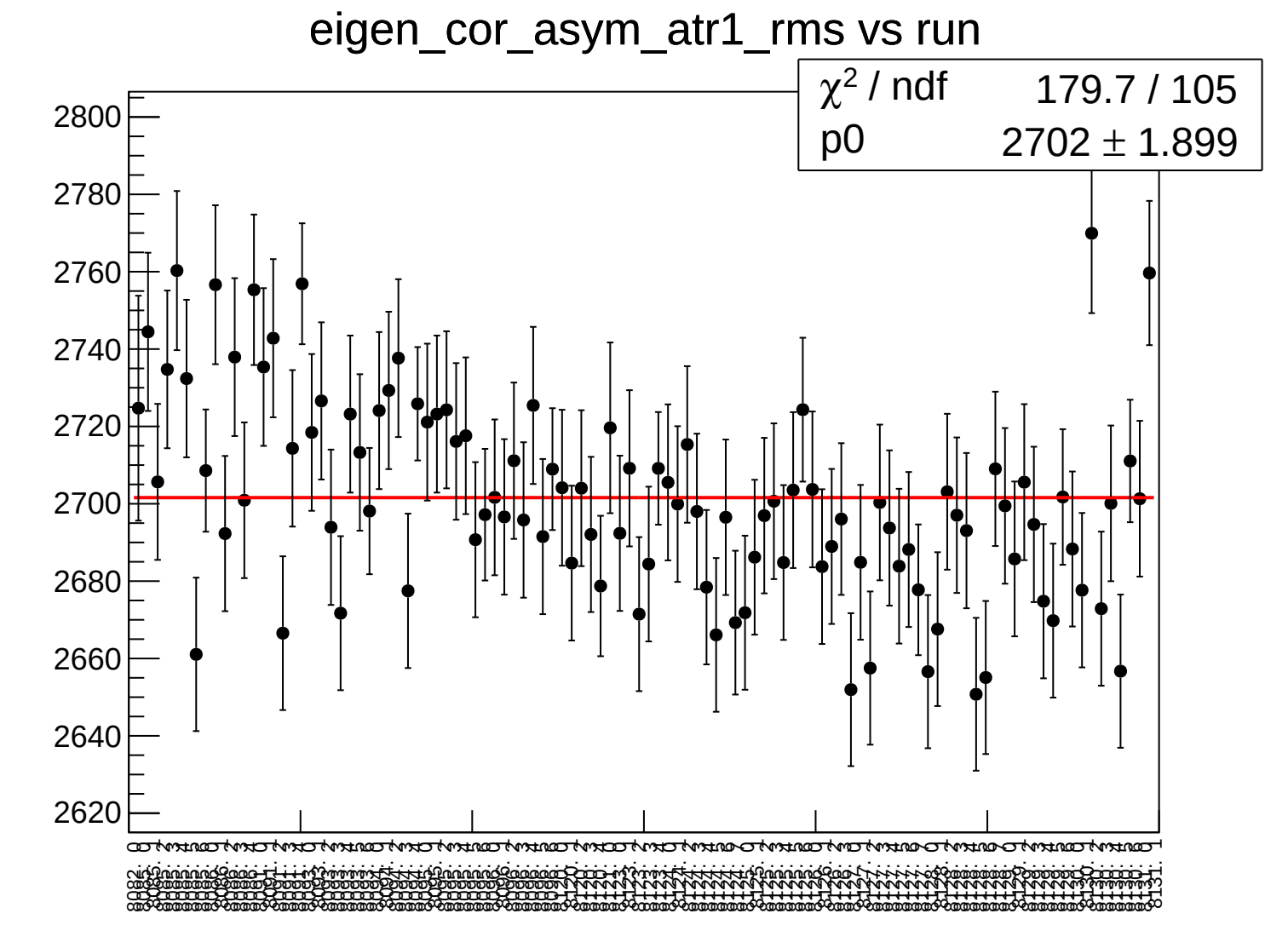

asym_atr1_cor_correction_mean vs run
χ² / ndf 78.06 / 105
p0 −239.8 ± 680.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 106
Mean 205.3
Std Dev 0
2
1
0
−1
−2

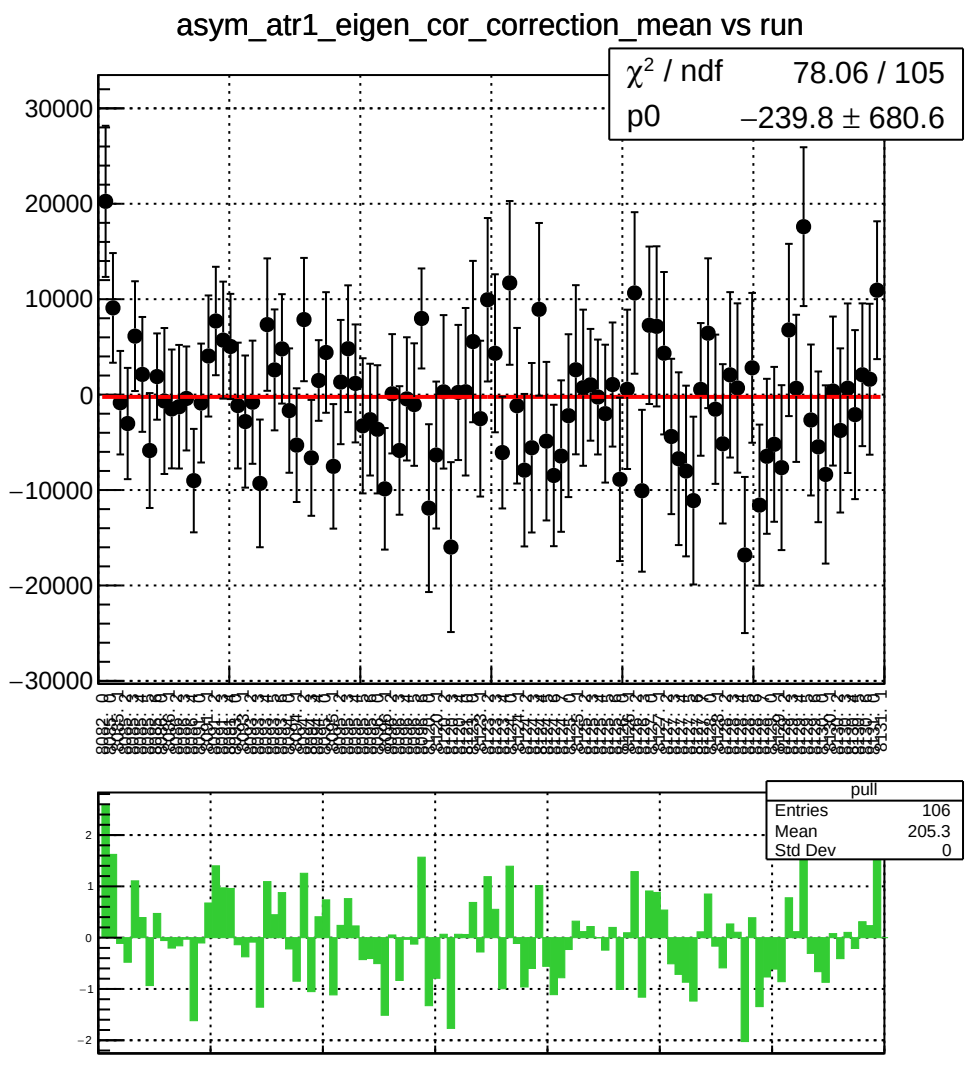

pull1D
Entries 106
Mean −0.02196
Std Dev 0.8578
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

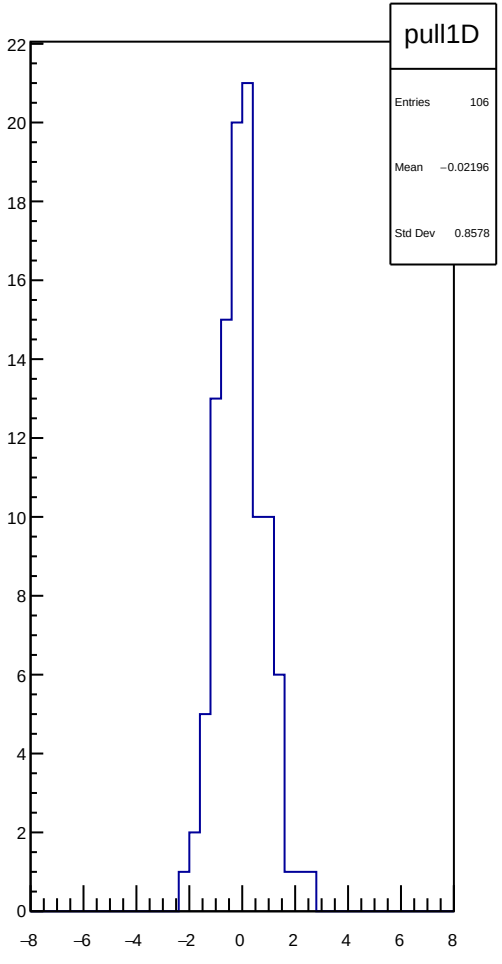

asym_atr1_cor_correction_rms vs run
$\chi^2$ / ndf 4.899e+04 / 105
p0 676.2 ± 0.4812
950
900
850
800
750
700
650
600
550
500

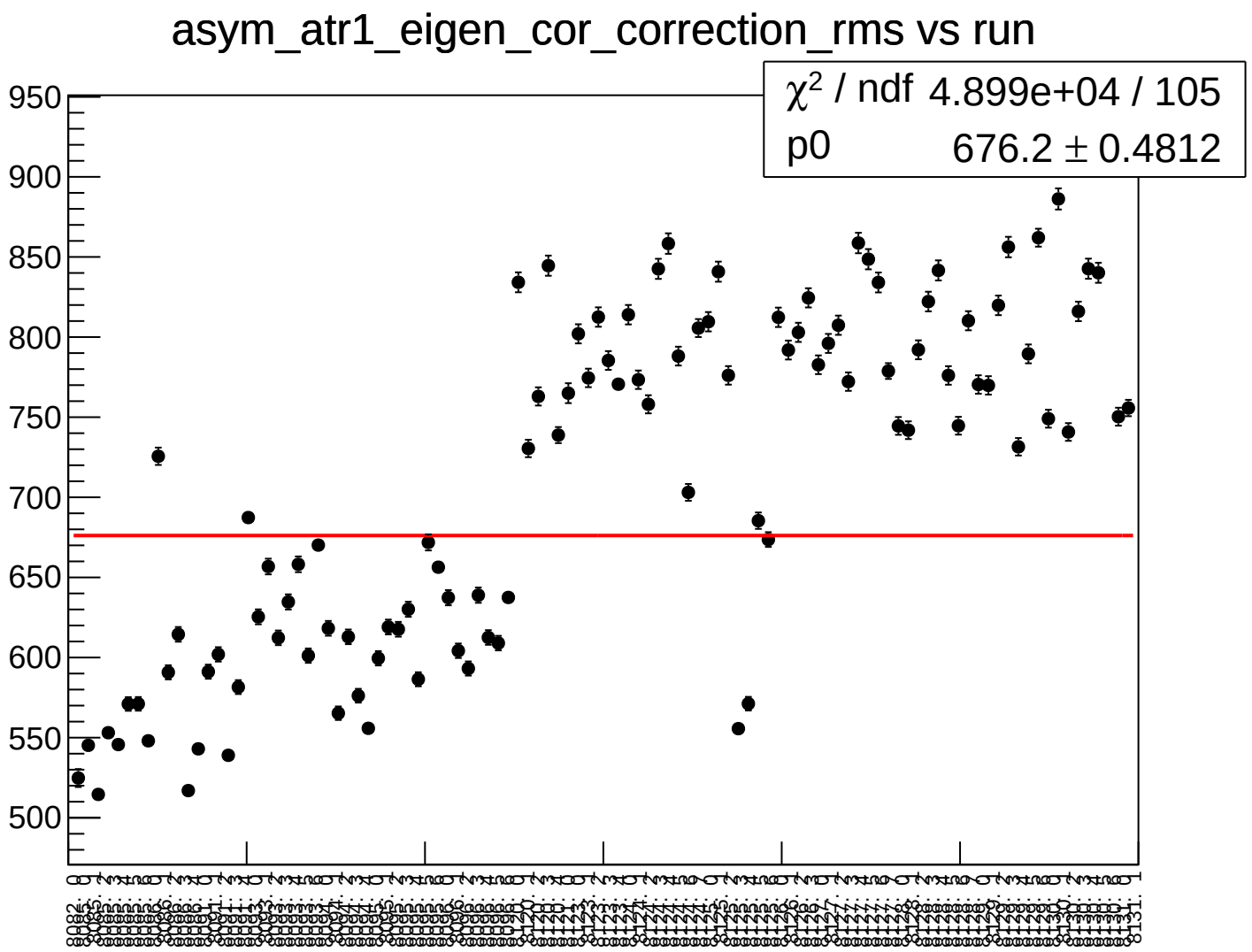

eigen_cor_asym_atr1_mean vs run
×10^3
χ^2 / ndf 113.1 / 105
p0 −1798 ± 2686
100
50
0
−50
−100
pull
Entries 106
Mean −572
Std Dev 0
2
1
0
−1
−2

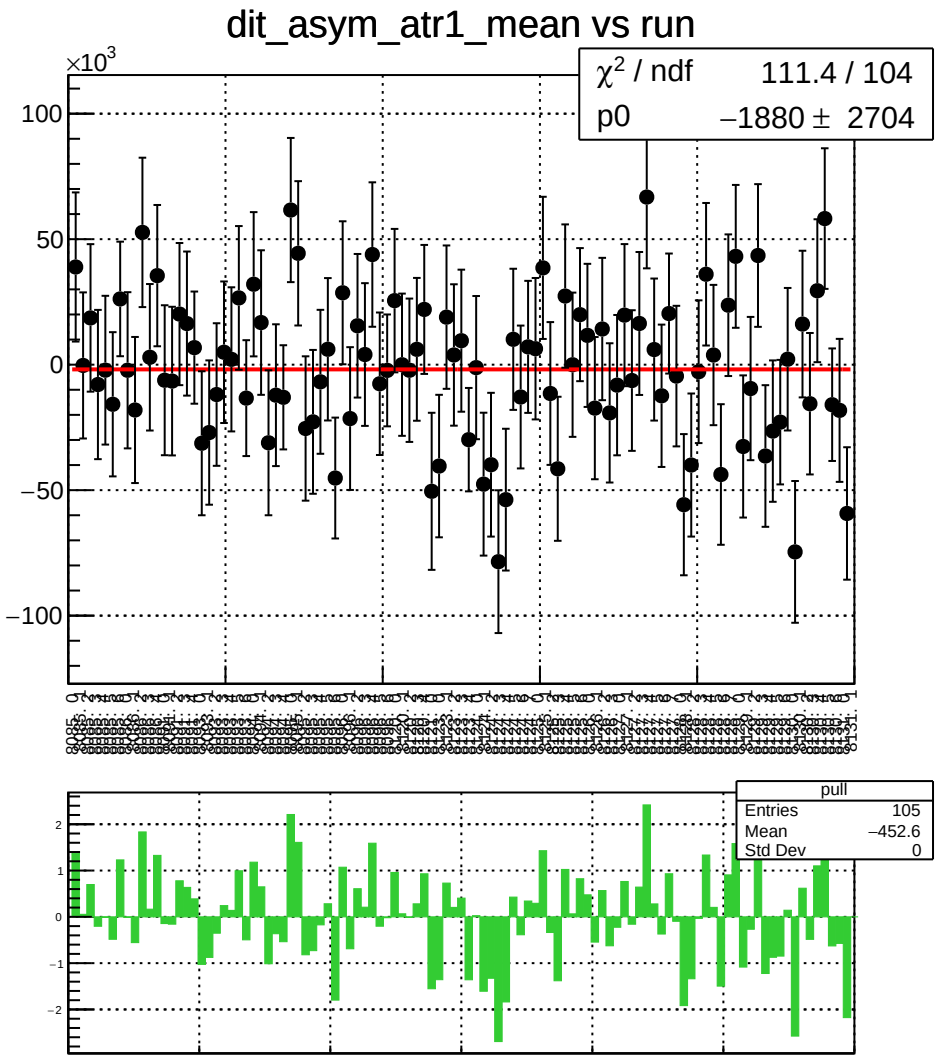

pull1D
Entries 106
Mean 0.007709
Std Dev 1.033
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

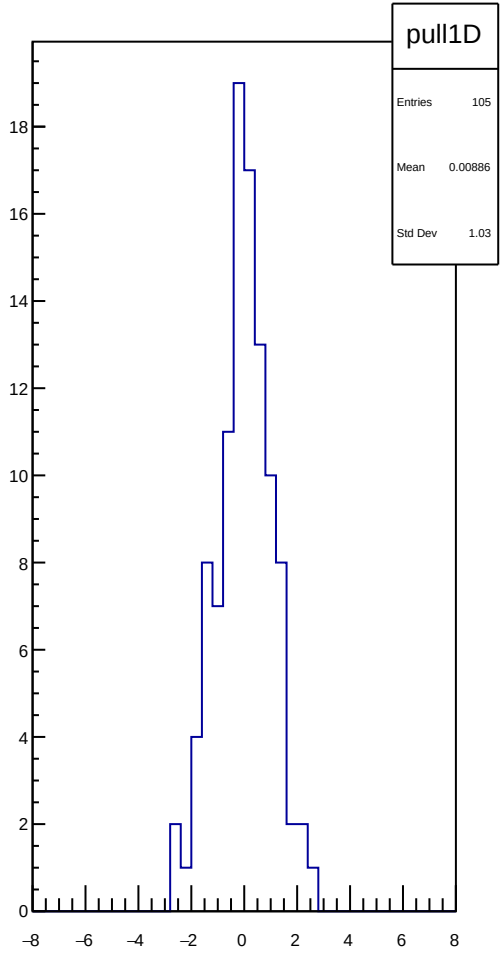

eigen_cor_asym_atr1_rms vs run
χ² / ndf 179.7 / 105
p0 2702 ± 1.899
2800
2780
2760
2740
2720
2700
2680
2660
2640
2620

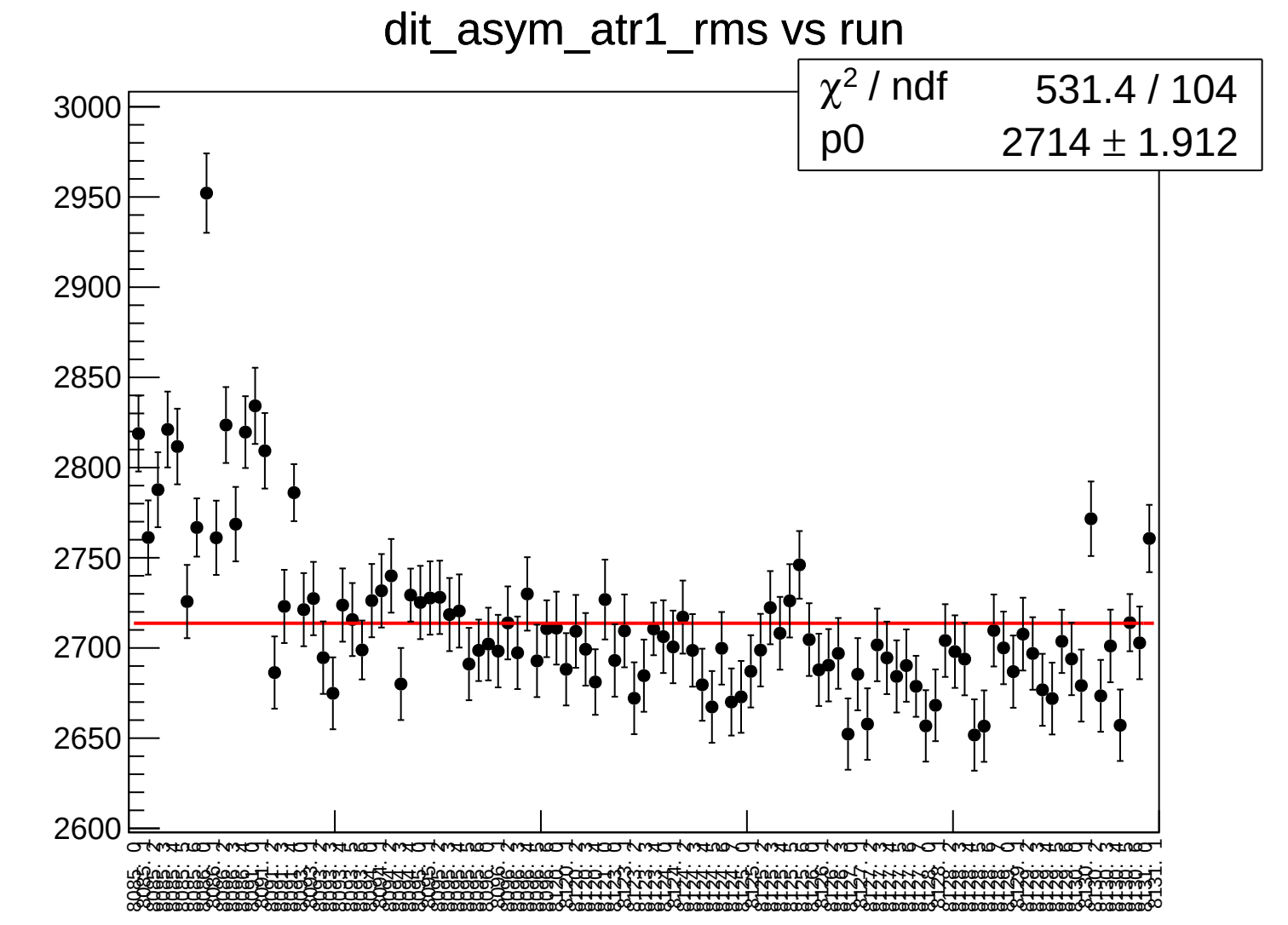

asym_atr1_eigen_cor_correction_mean vs run
χ² / ndf 78.06 / 105
p0 −239.8 ± 680.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 106
Mean 205.3
Std Dev 0
2
1
0
−1
−2

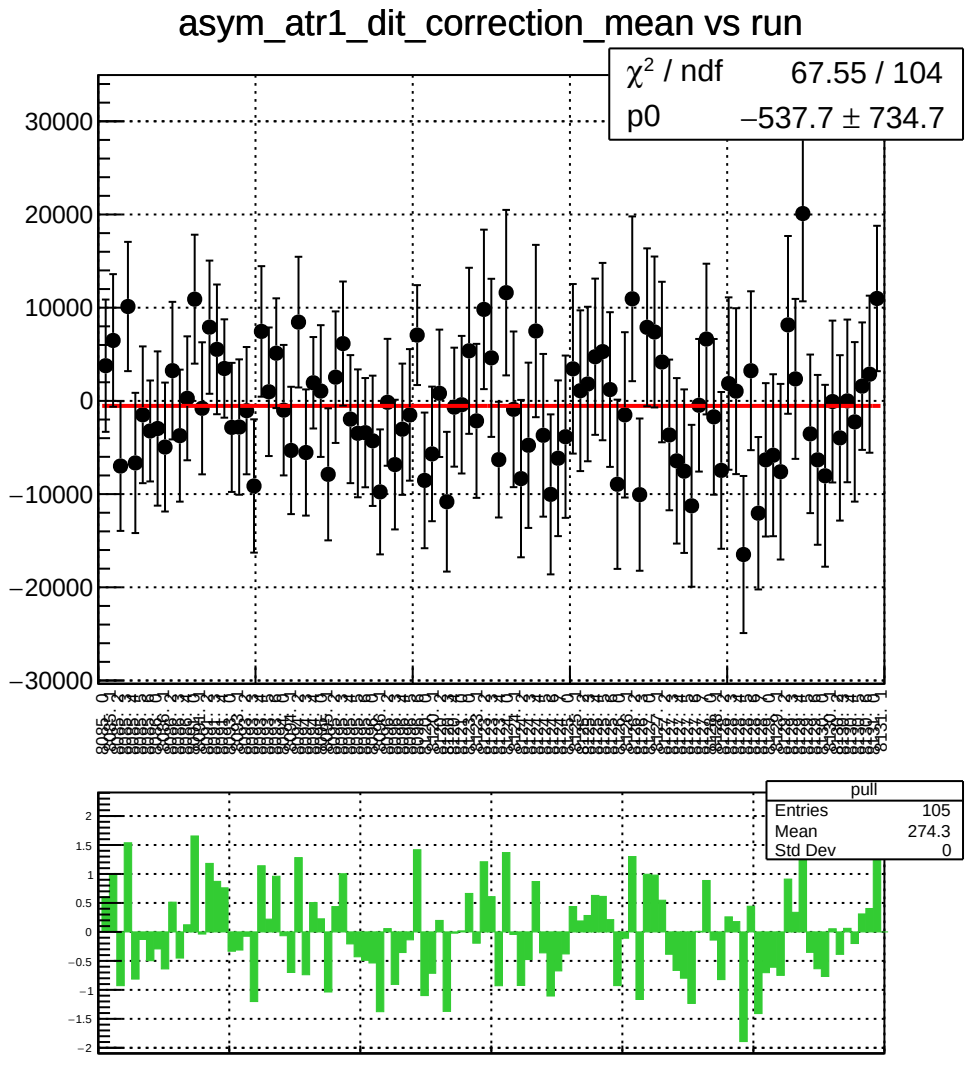

pull1D
Entries 106
Mean −0.02196
Std Dev 0.8578
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

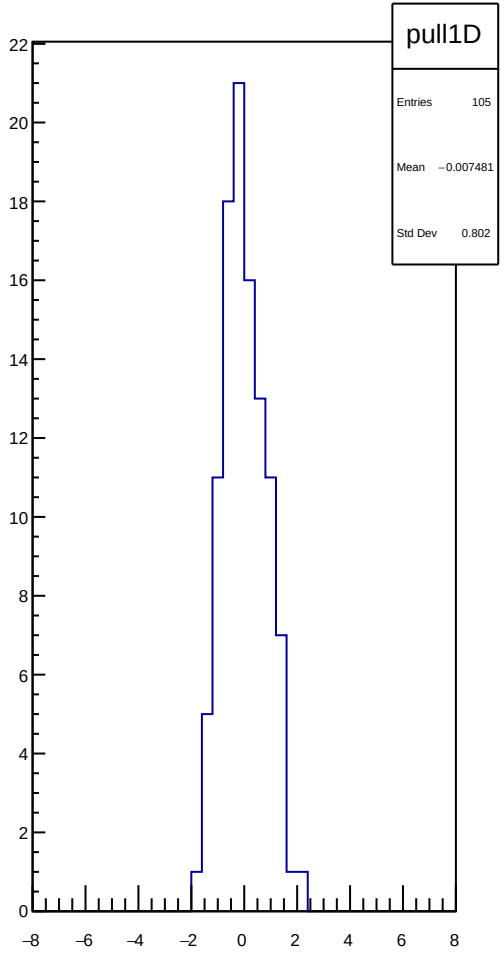

asym_atr1_eigen_cor_correction_rms vs run
χ² / ndf 4.899e+04 / 105
p0 676.2 ± 0.4812
950
900
850
800
750
700
650
600
550
500

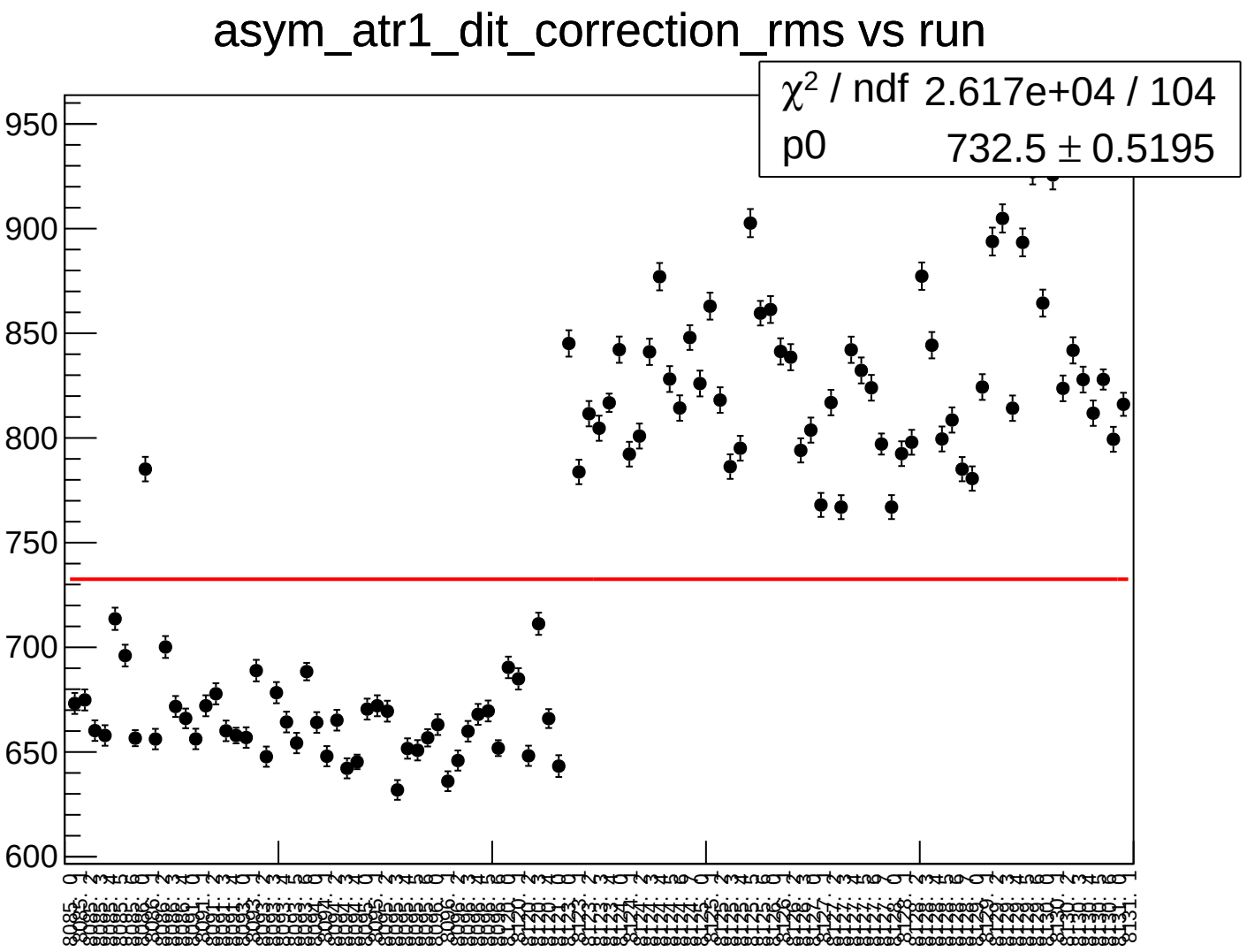

dit_asym_atr1_mean vs run
×10^3
χ^2 / ndf 111.4 / 104
p0 −1880 ± 2704
100
50
0
−50
−100
pull
Entries 105
Mean −452.6
Std Dev 0
2
1
0
−1
−2

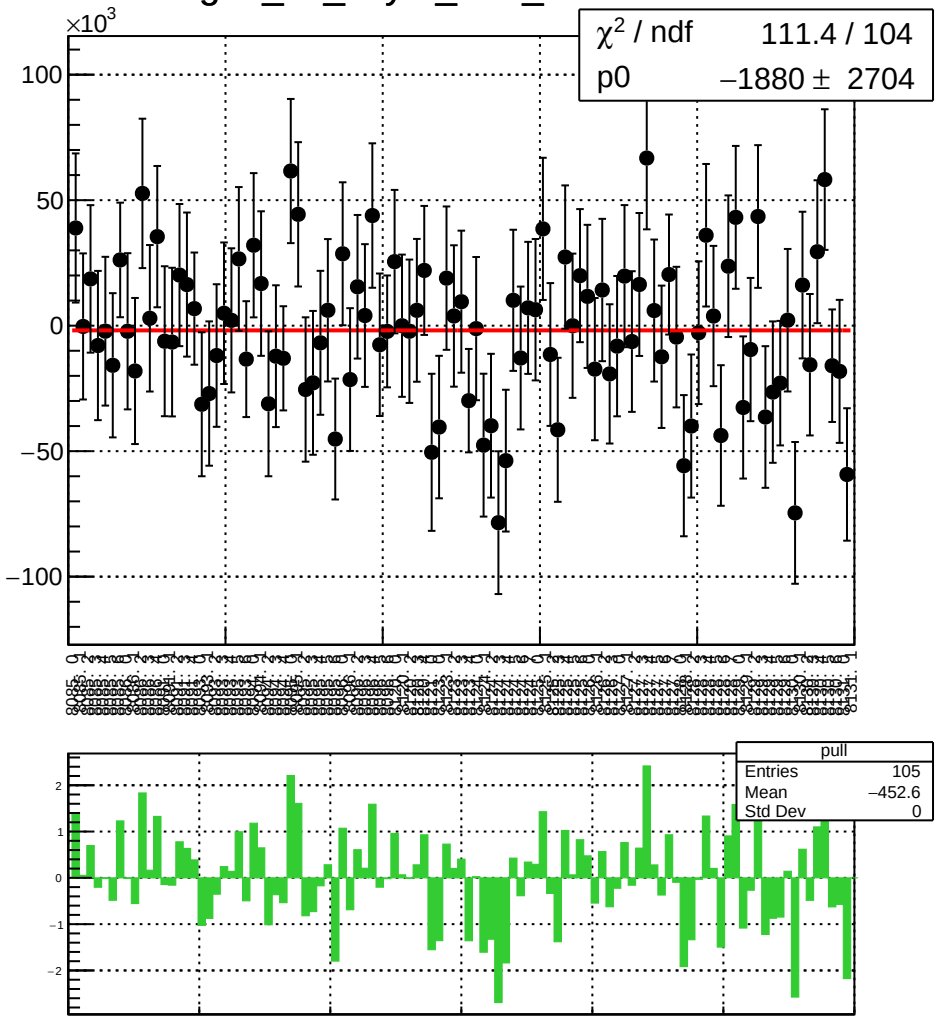

pull1D
Entries 105
Mean 0.00886
Std Dev 1.03
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

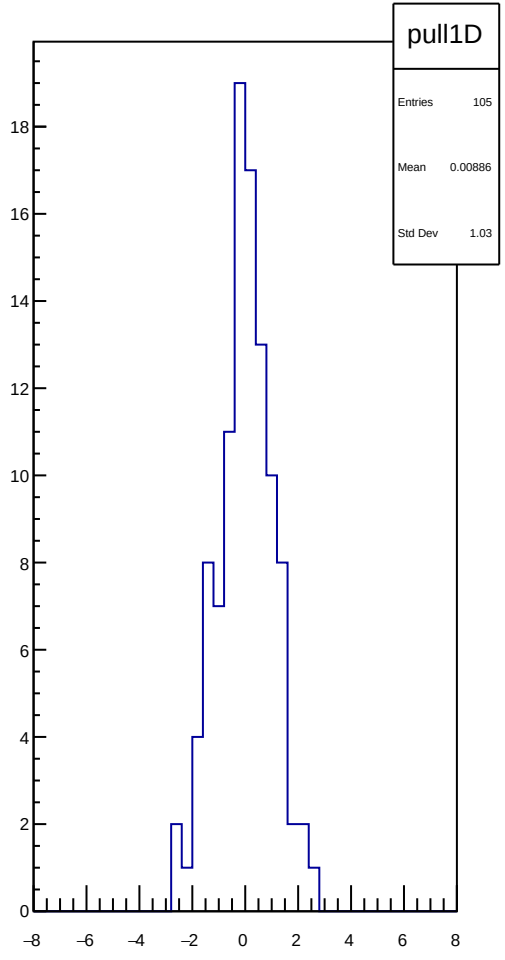

dit_asym_atr1_rms vs run
χ² / ndf 531.4 / 104
p0 2714 ± 1.912
3000
2950
2900
2850
2800
2750
2700
2650
2600

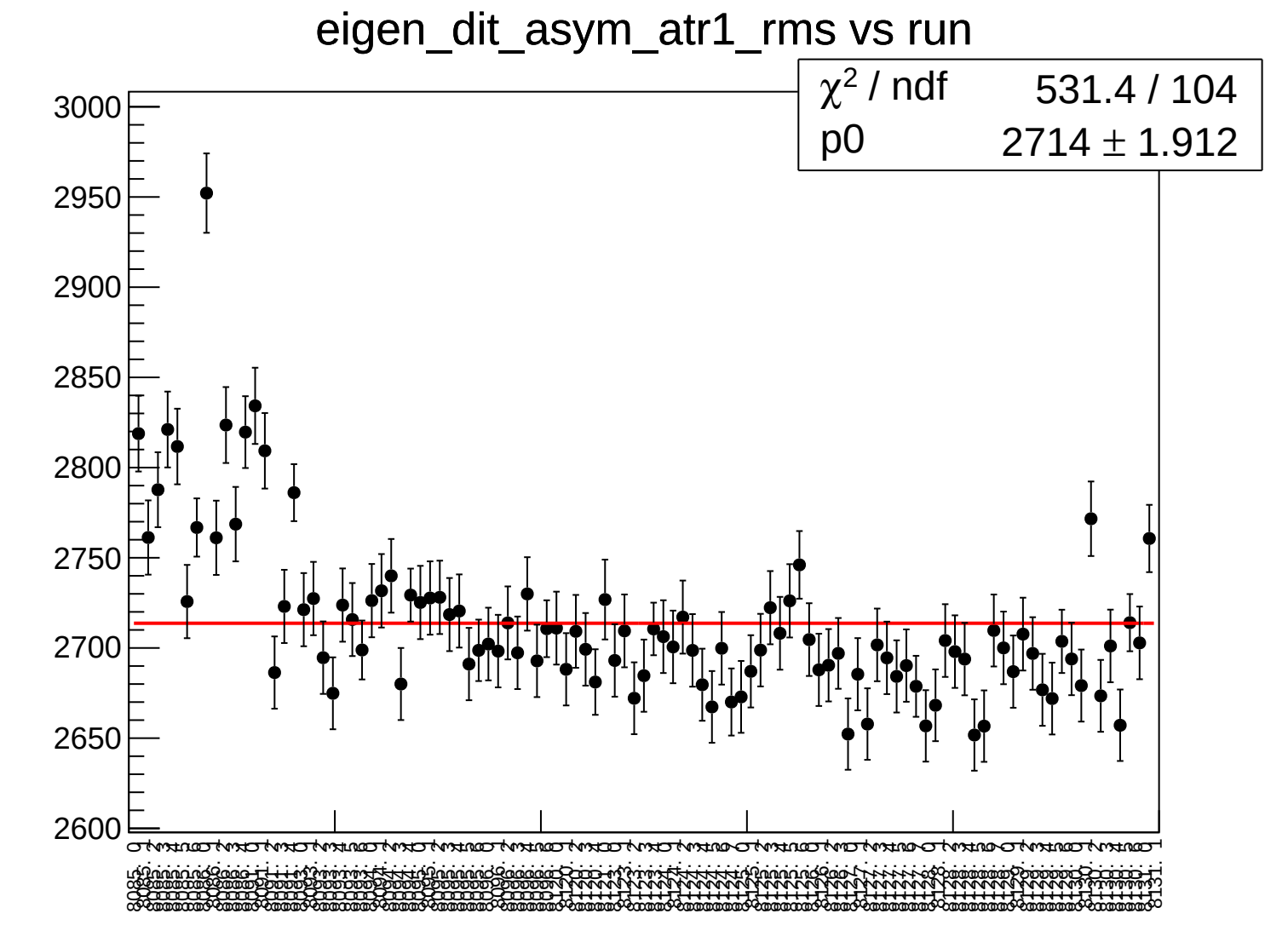

asym_atr1_dit_correction_mean vs run
χ² / ndf 67.55 / 104
p0 −537.7 ± 734.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 105
Mean 274.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

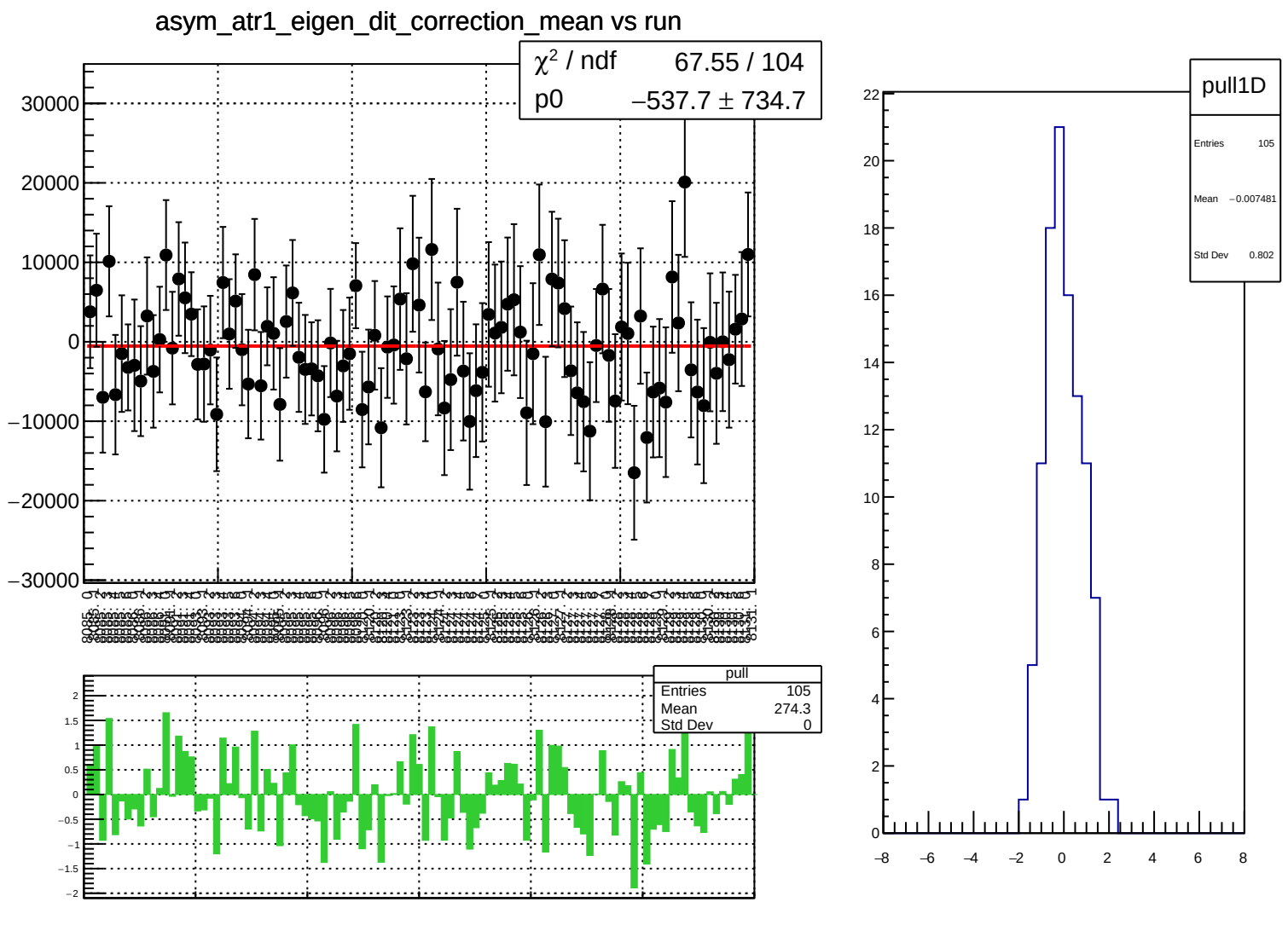

pull1D
Entries 105
Mean −0.007481
Std Dev 0.802
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

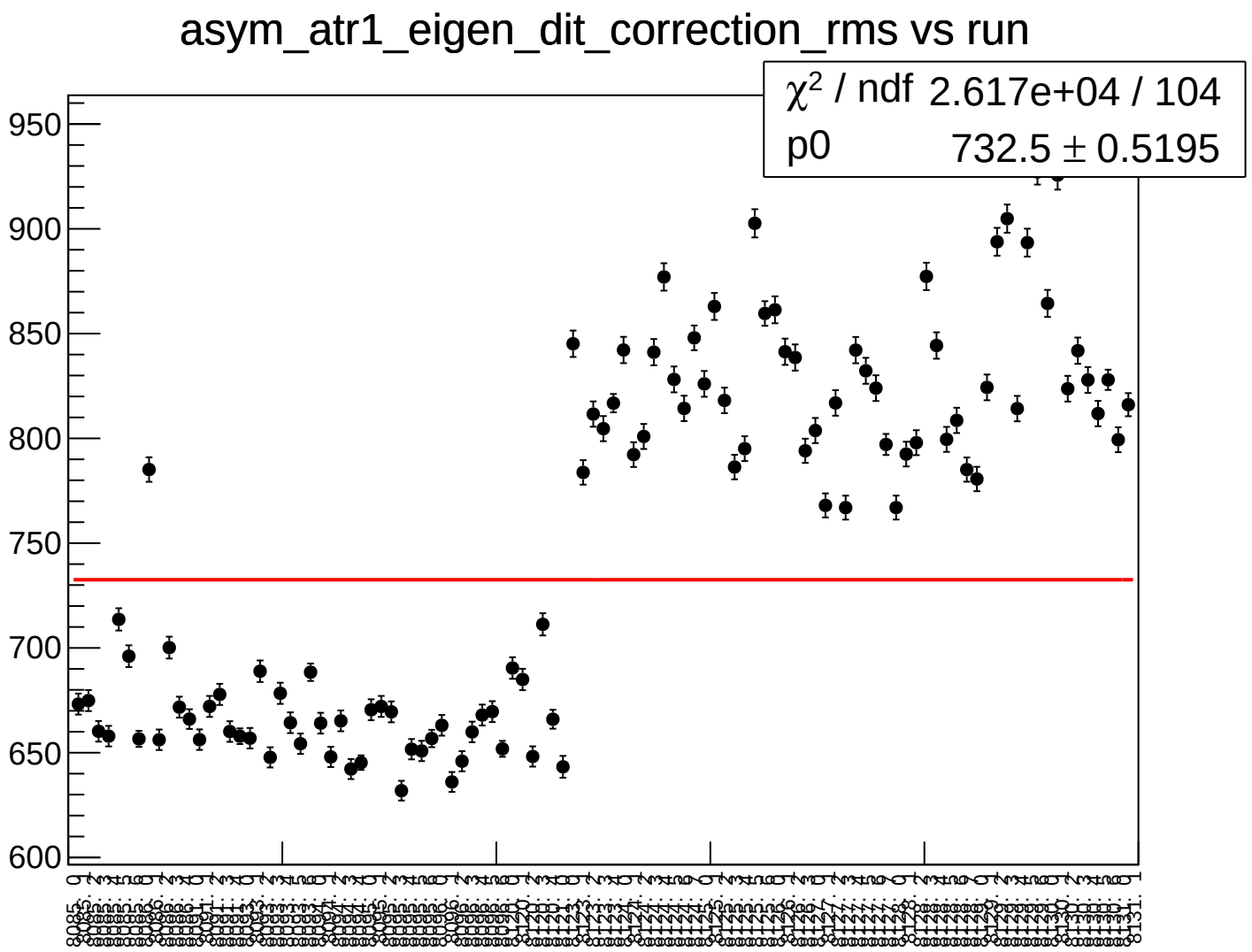

asym_atr1_dit_correction_rms vs run
χ² / ndf 2.617e+04 / 104
p0 732.5 ± 0.5195
950
900
850
800
750
700
650
600

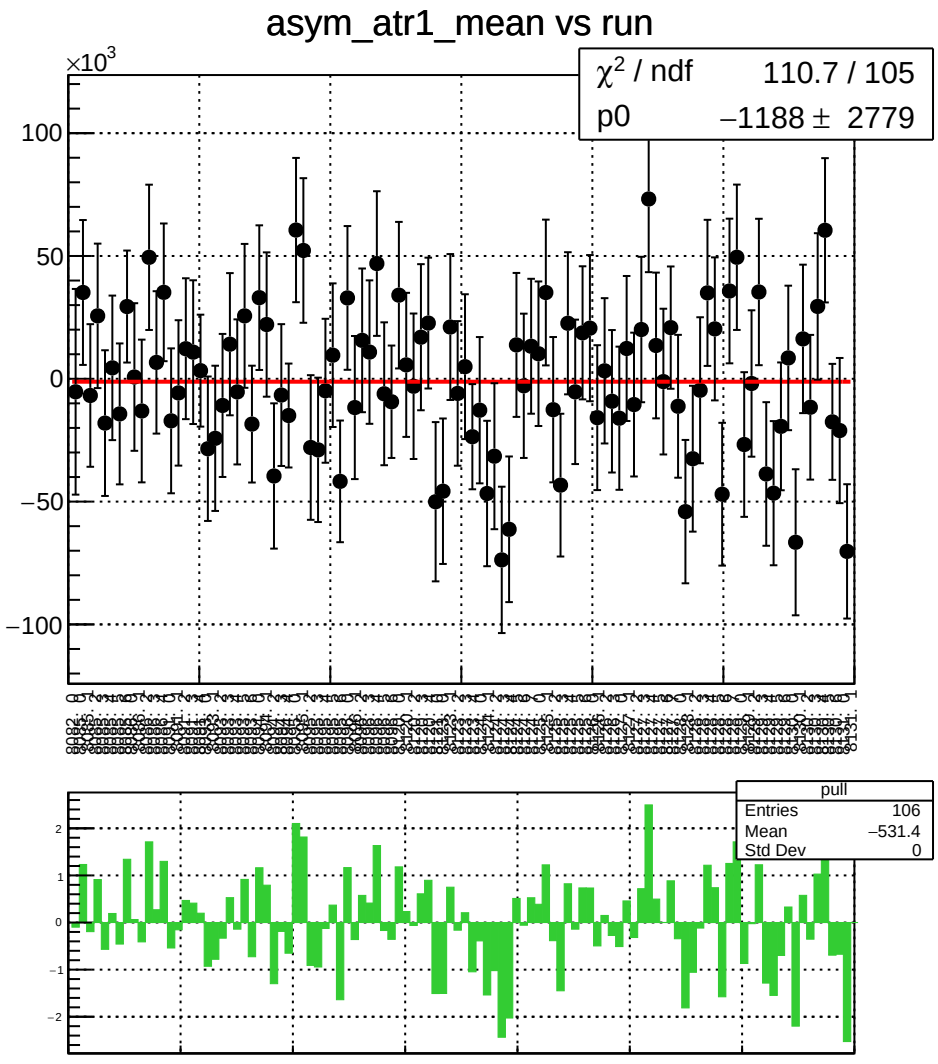

eigen_dit_asym_atr1_mean vs run
×10^3
χ² / ndf 111.4 / 104
p0 −1880 ± 2704
100
50
0
−50
−100
pull
Entries 105
Mean −452.6
Std Dev 0
2
1
0
−1
−2

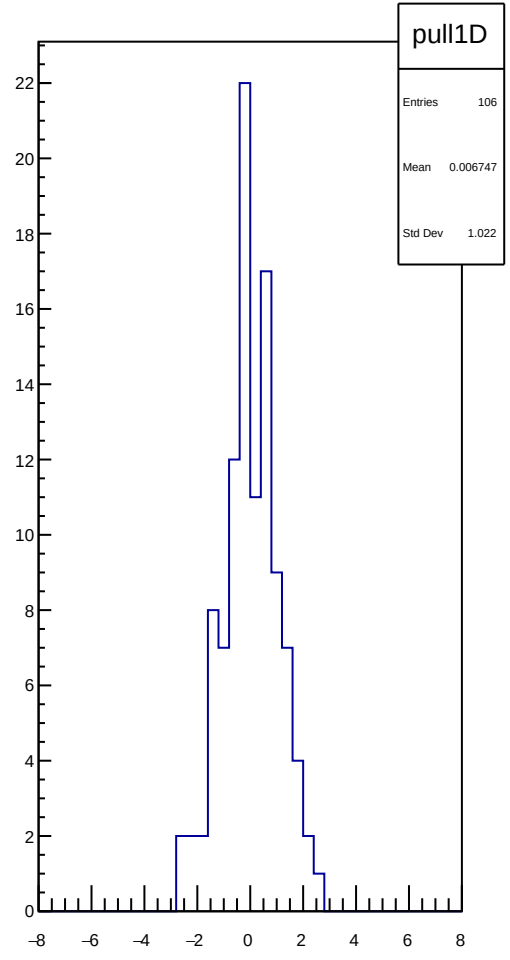

pull1D
Entries 105
Mean 0.00886
Std Dev 1.03
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

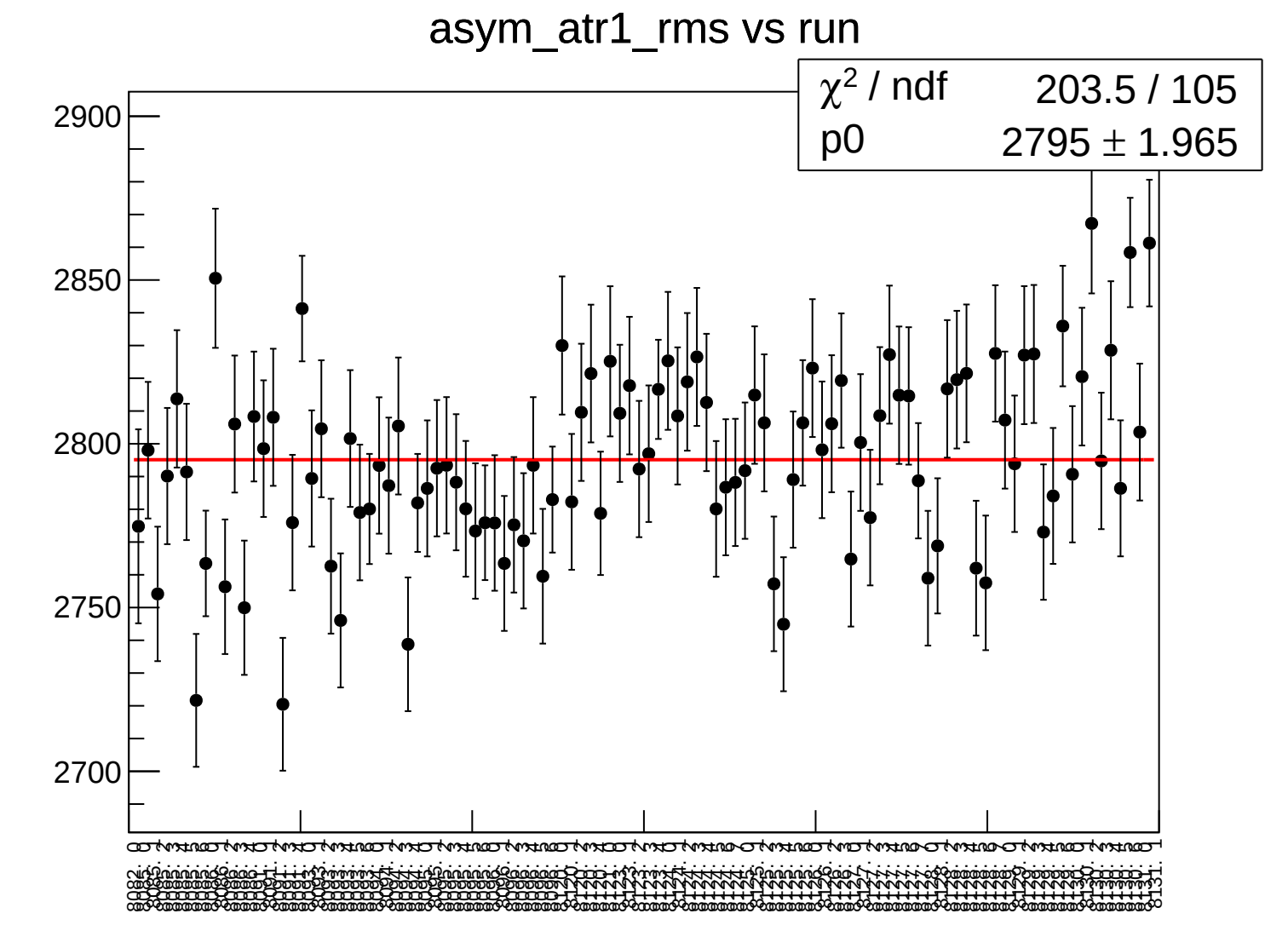

eigen_dit_asym_atr1_rms vs run
χ² / ndf 531.4 / 104
p0 2714 ± 1.912
3000
2950
2900
2850
2800
2750
2700
2650
2600

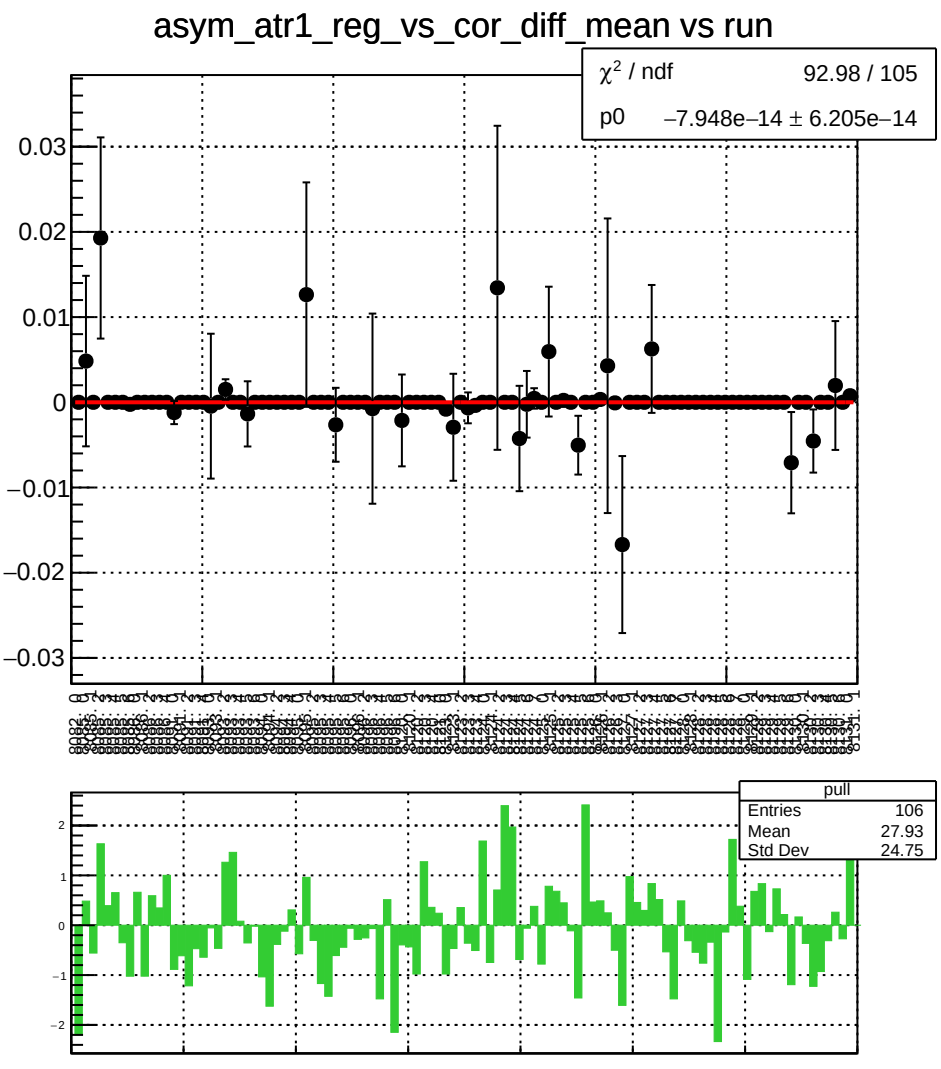

asym_atr1_eigen_dit_correction_mean vs run
χ² / ndf 67.55 / 104
p0 −537.7 ± 734.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 105
Mean 274.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 105
Mean −0.007481
Std Dev 0.802
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

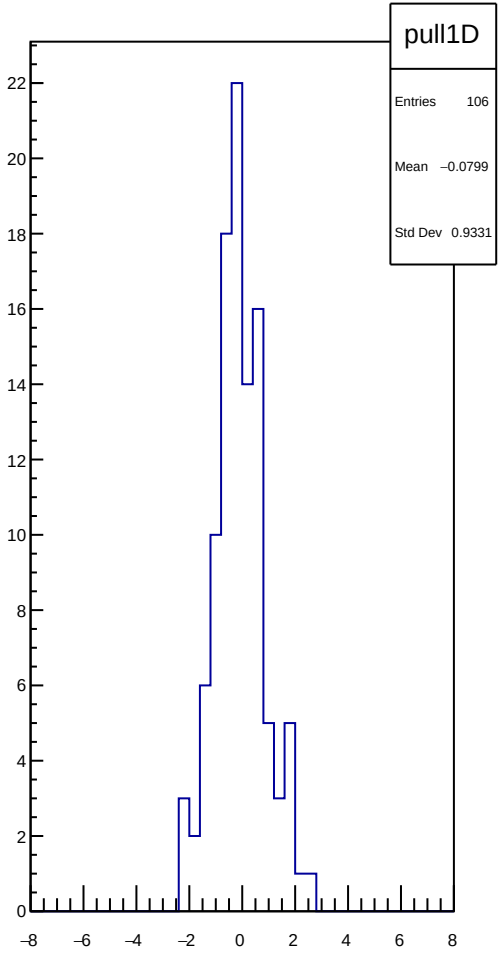

asym_atr1_eigen_dit_correction_rms vs run
χ² / ndf 2.617e+04 / 104
p0 732.5 ± 0.5195
950
900
850
800
750
700
650
600

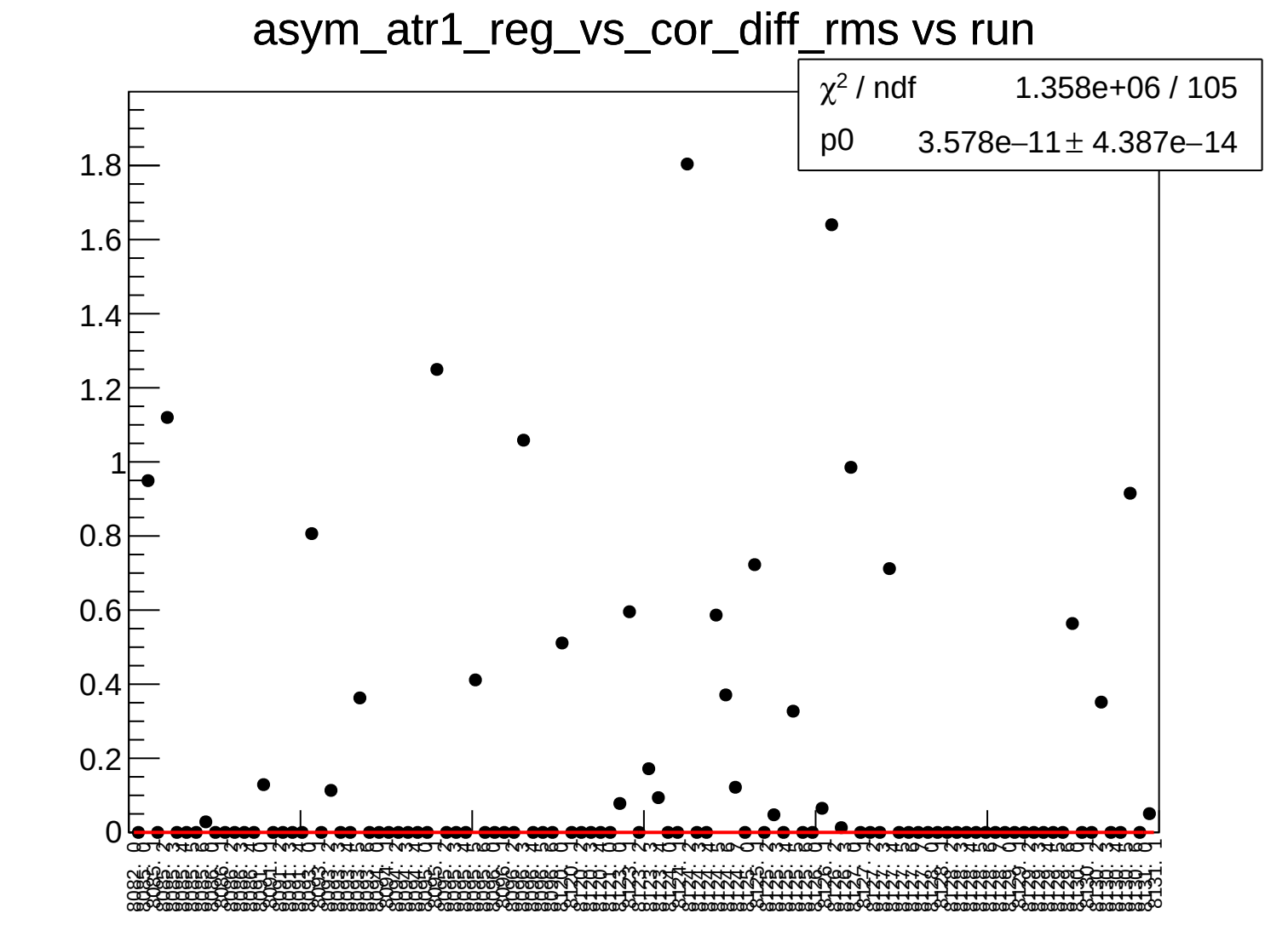

asym_atr1_mean vs run
×10^3
χ^2 / ndf 110.7 / 105
p0 −1188 ± 2779
100
50
0
−50
−100
pull
Entries 106
Mean −531.4
Std Dev 0
2
1
0
−1
−2

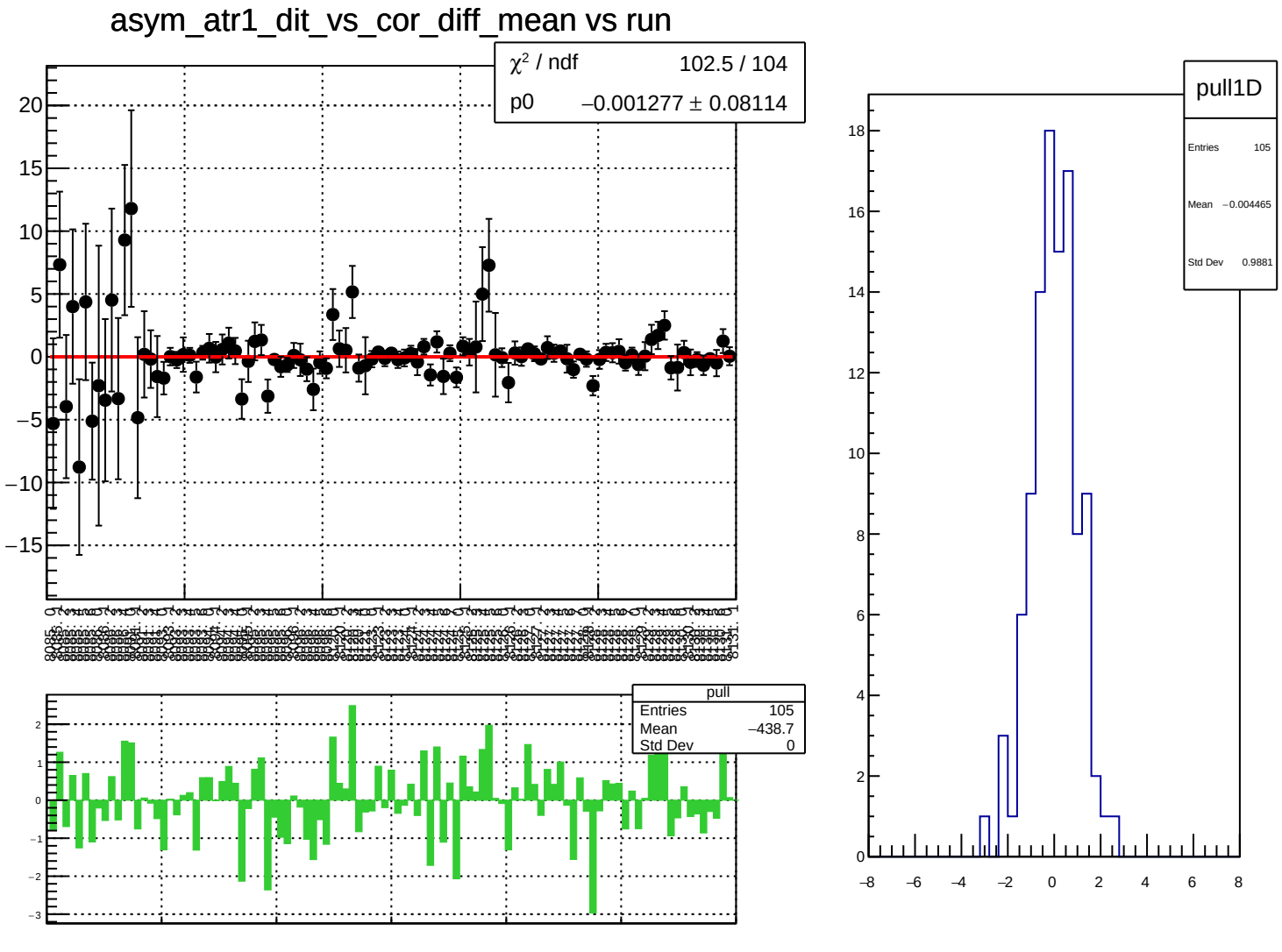

pull1D
Entries 106
Mean 0.006747
Std Dev 1.022
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

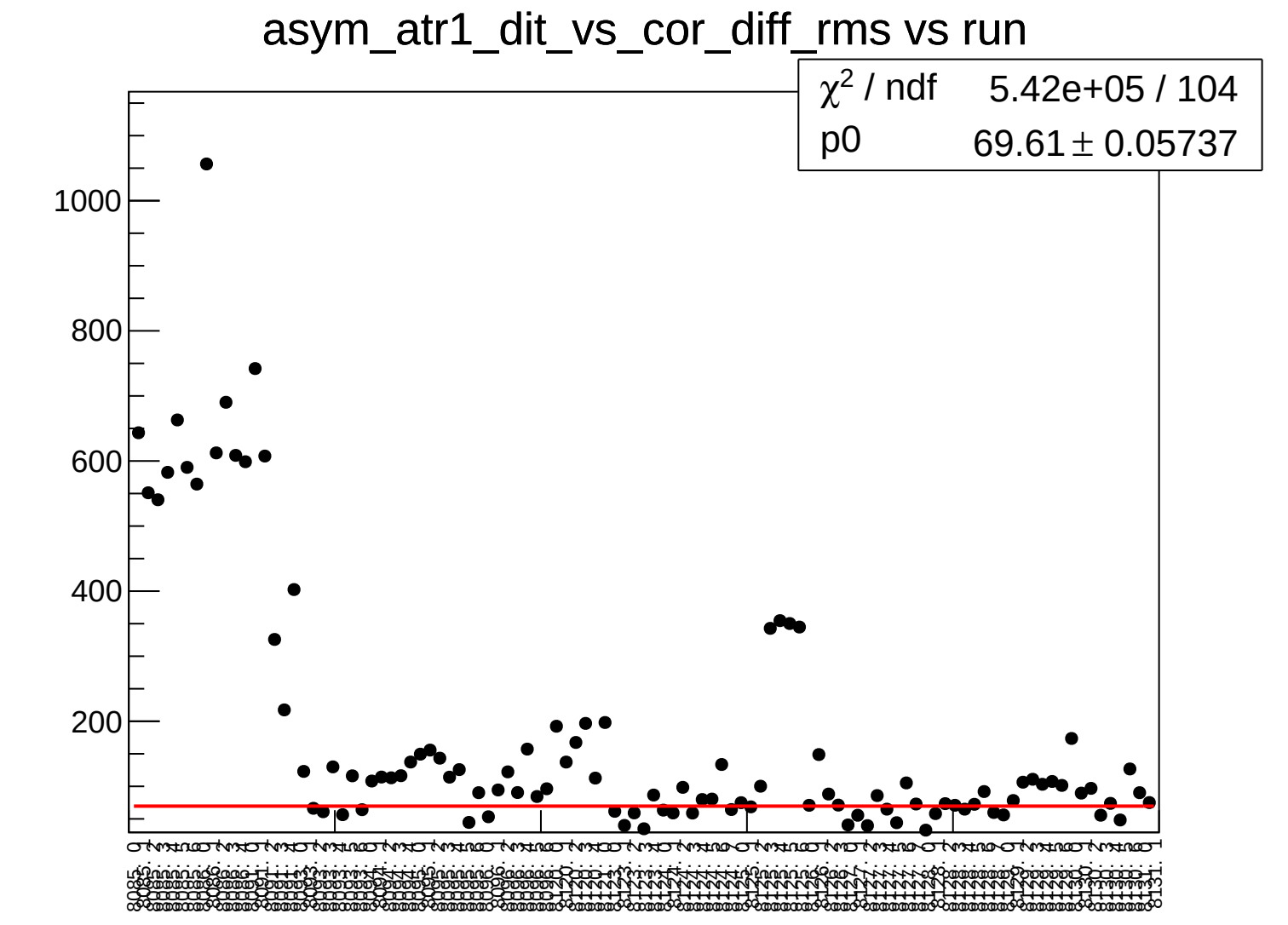

asym_atr1_rms vs run
χ² / ndf 203.5 / 105
p0 2795 ± 1.965
2900
2850
2800
2750
2700

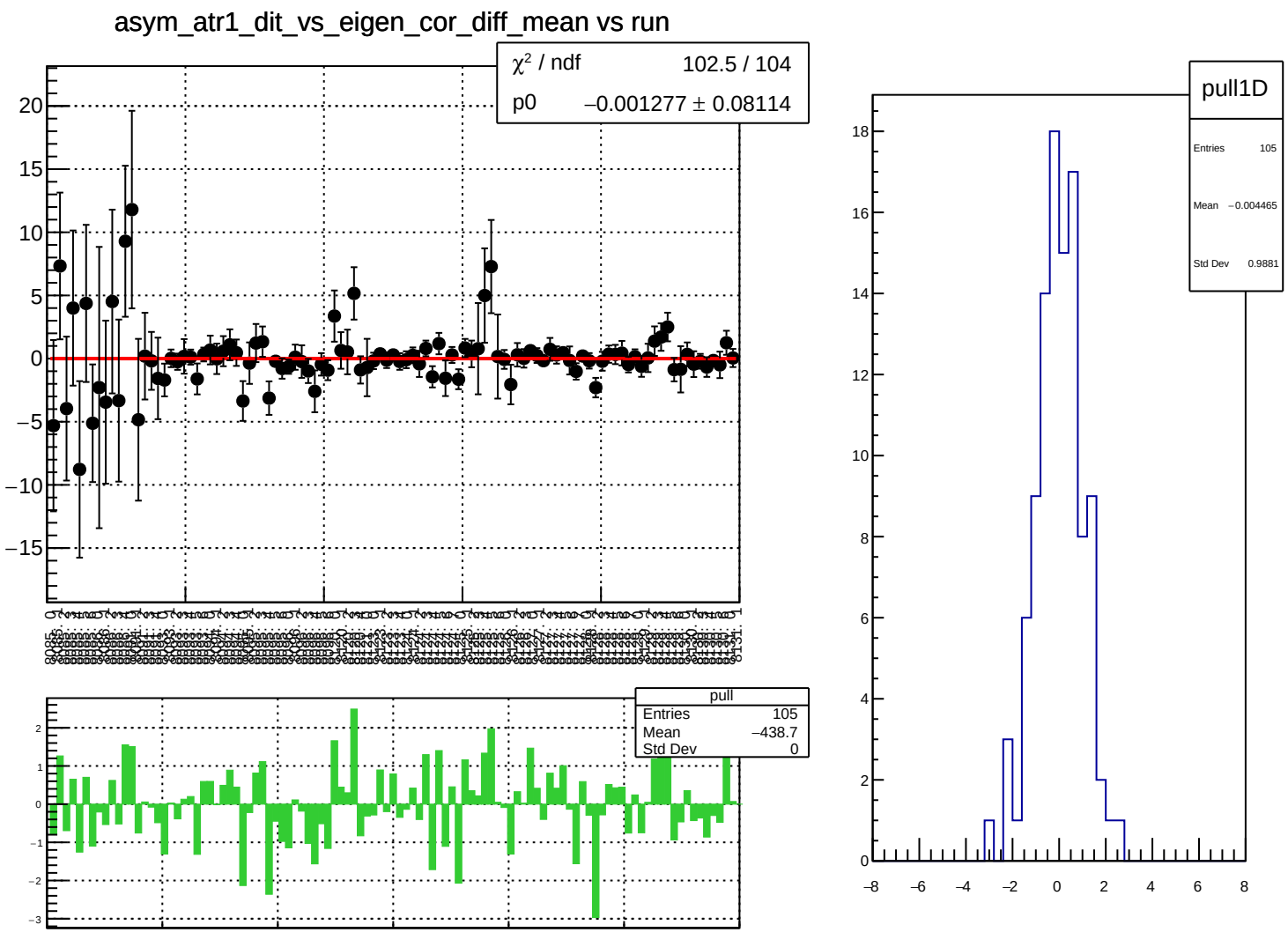

asym_atr1_reg_vs_cor_diff_mean vs run
χ² / ndf 92.98 / 105
p0 −7.948e−14 ± 6.205e−14
pull
Entries 106
Mean 27.93
Std Dev 24.75

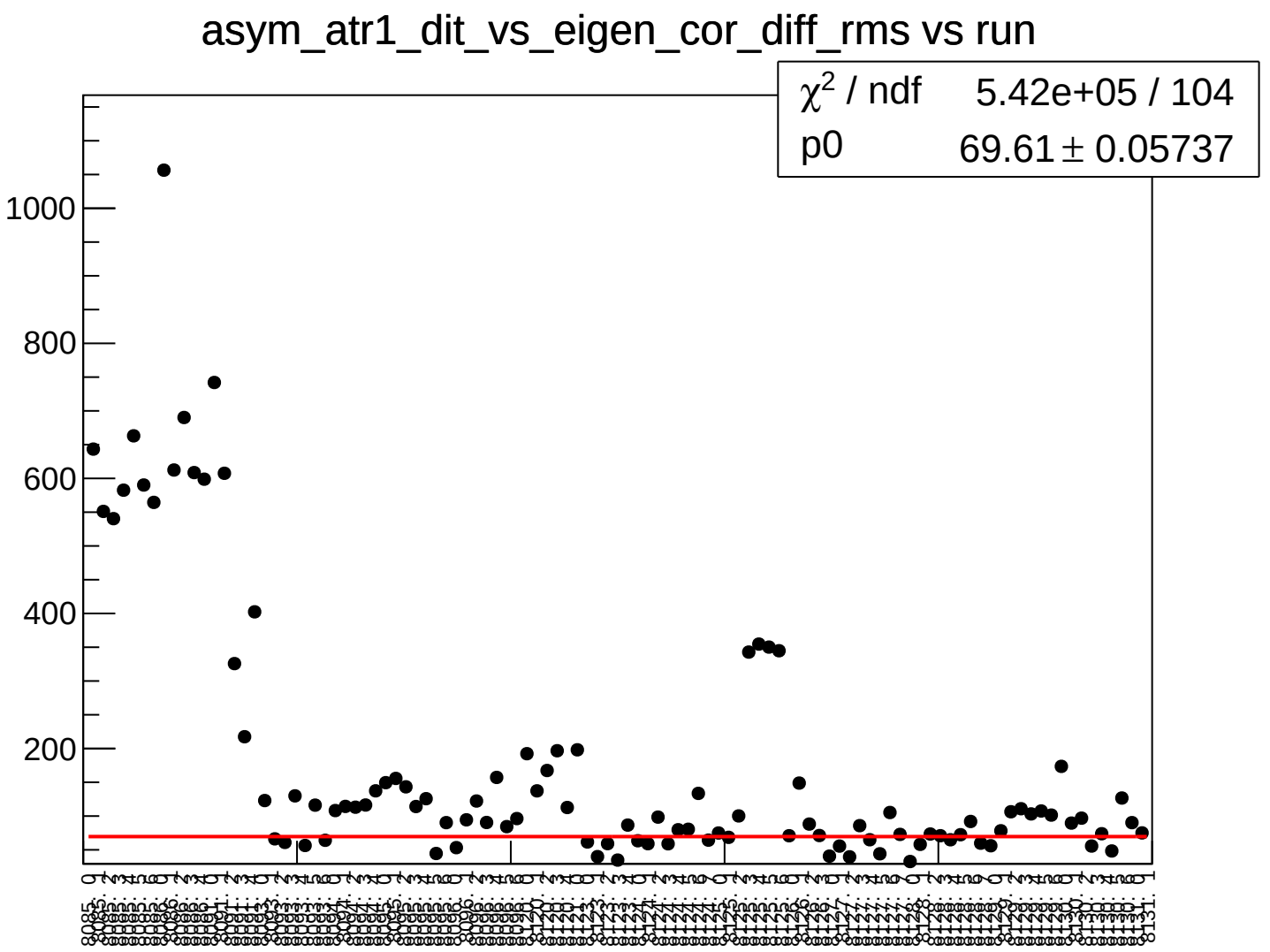

pull1D
Entries 106
Mean −0.0799
Std Dev 0.9331

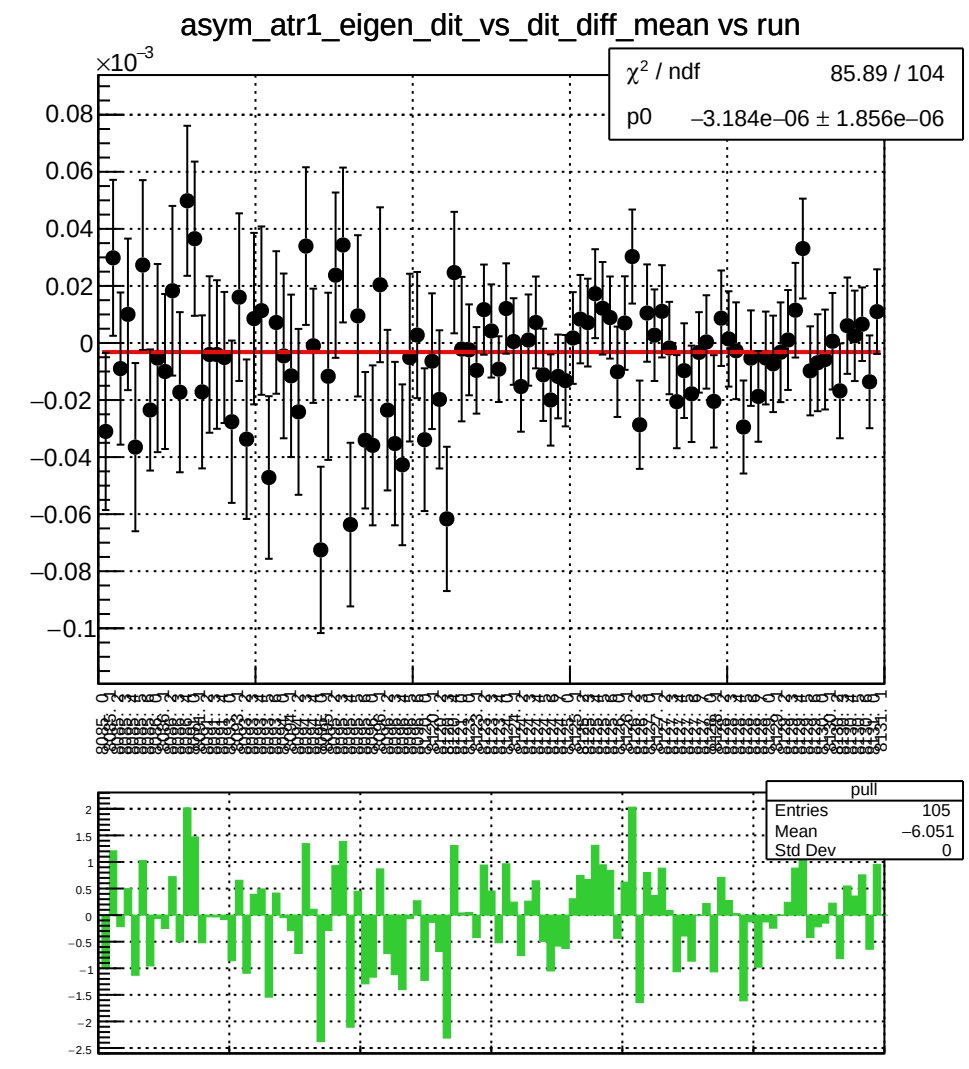

asym_atr1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.358e+06 / 105
p0 3.578e−11 ± 4.387e−14
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

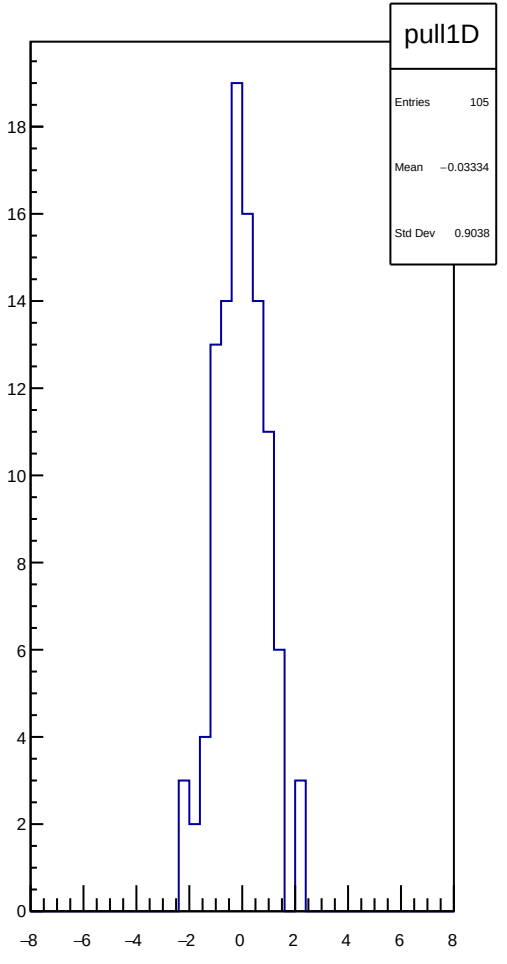

asym_atr1_dit_vs_cor_diff_mean vs run
χ² / ndf 102.5 / 104
p0 −0.001277 ± 0.08114
pull
Entries 105
Mean −438.7
Std Dev 0
pull1D
Entries 105
Mean −0.004465
Std Dev 0.9881

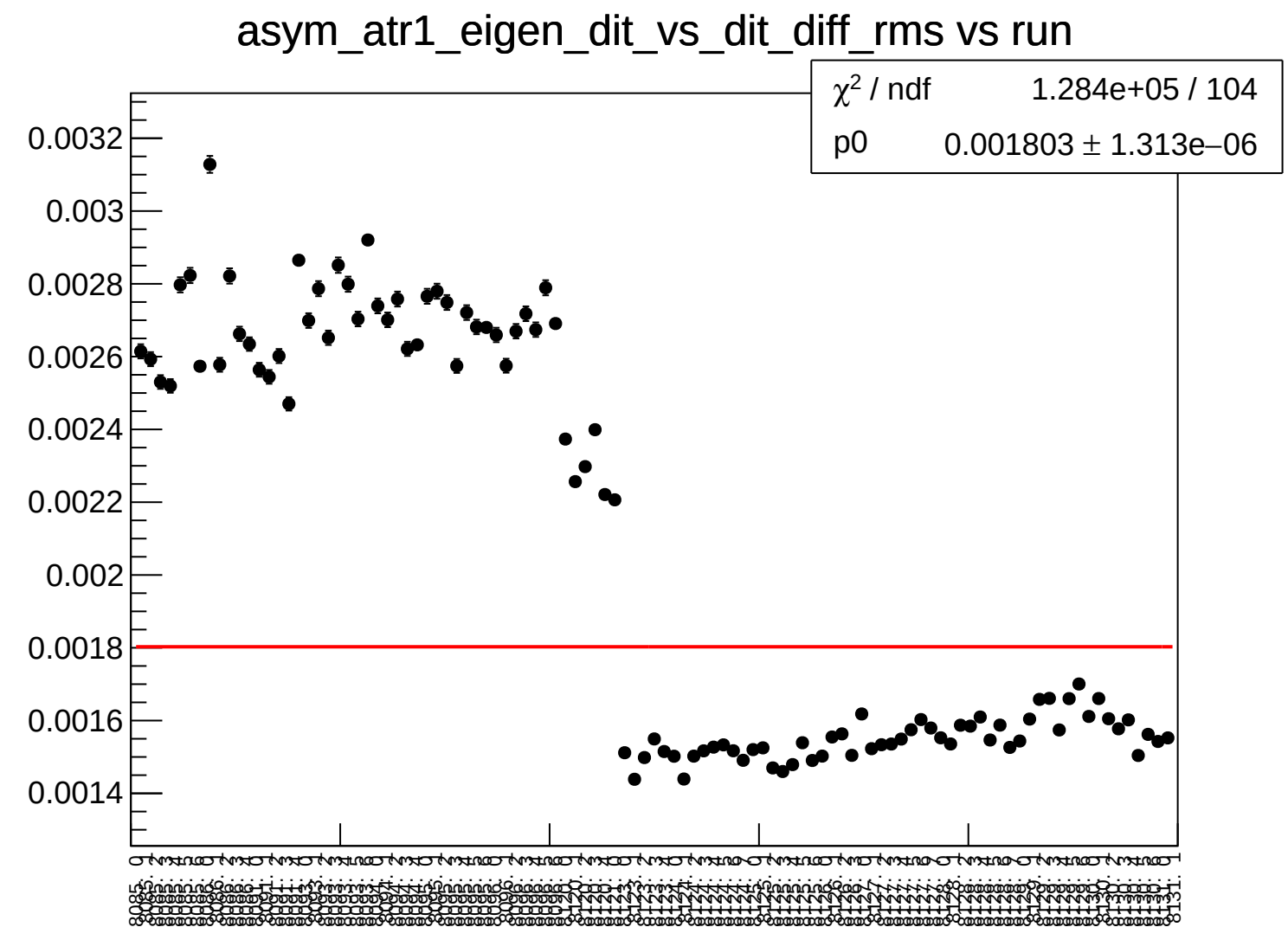

asym_atr1_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 5.42e+05 / 104
p0 69.61 ± 0.05737
1000
800
600
400
200

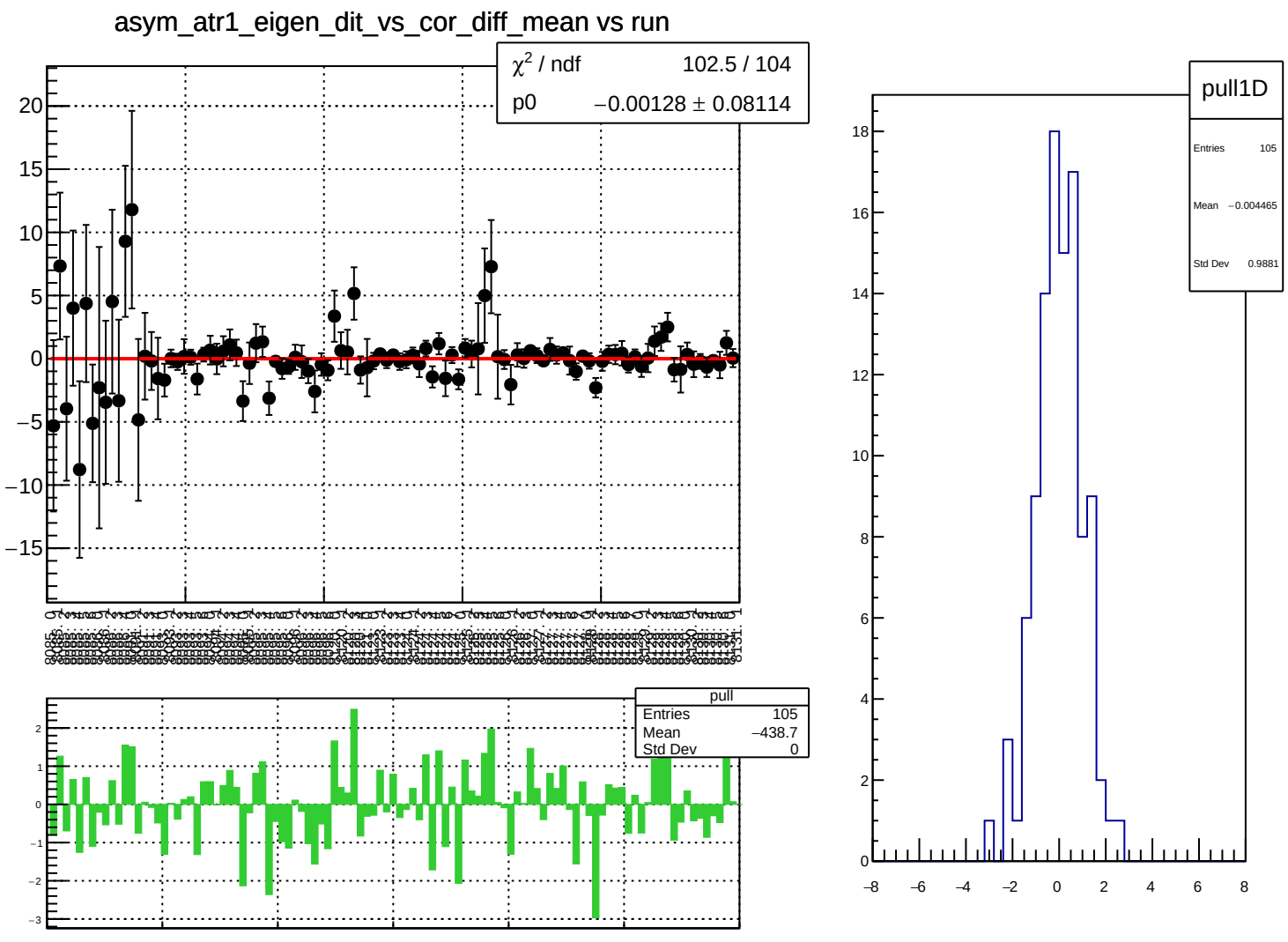

asym_atr1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.5 / 104
p0 −0.001277 ± 0.08114
pull
Entries 105
Mean −438.7
Std Dev 0
pull1D
Entries 105
Mean −0.004465
Std Dev 0.9881

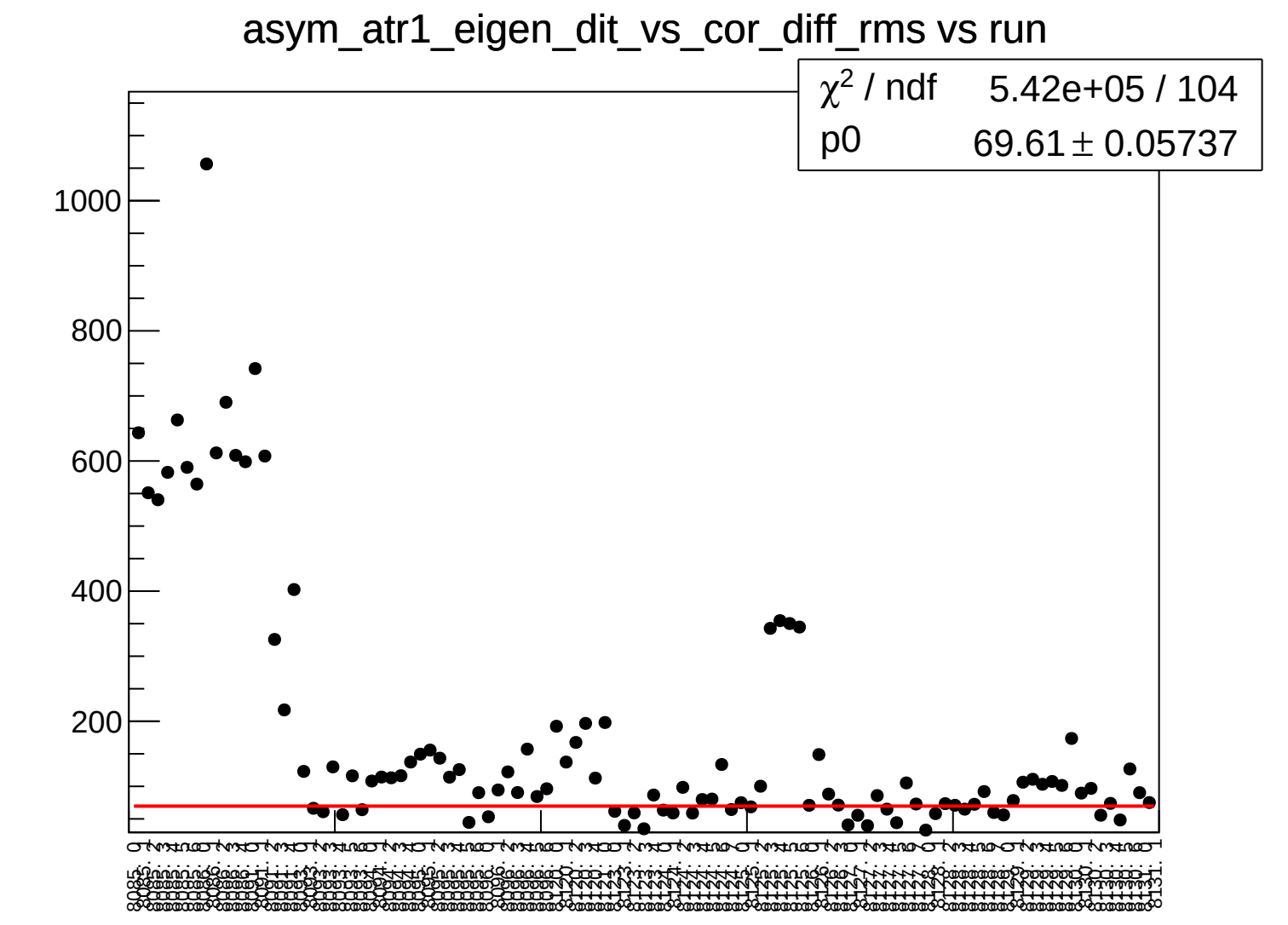

asym_atr1_dit_vs_eigen_cor_diff_rms vs run
$\chi^2$ / ndf 5.42e+05 / 104
p0 69.61 ± 0.05737
1000
800
600
400
200

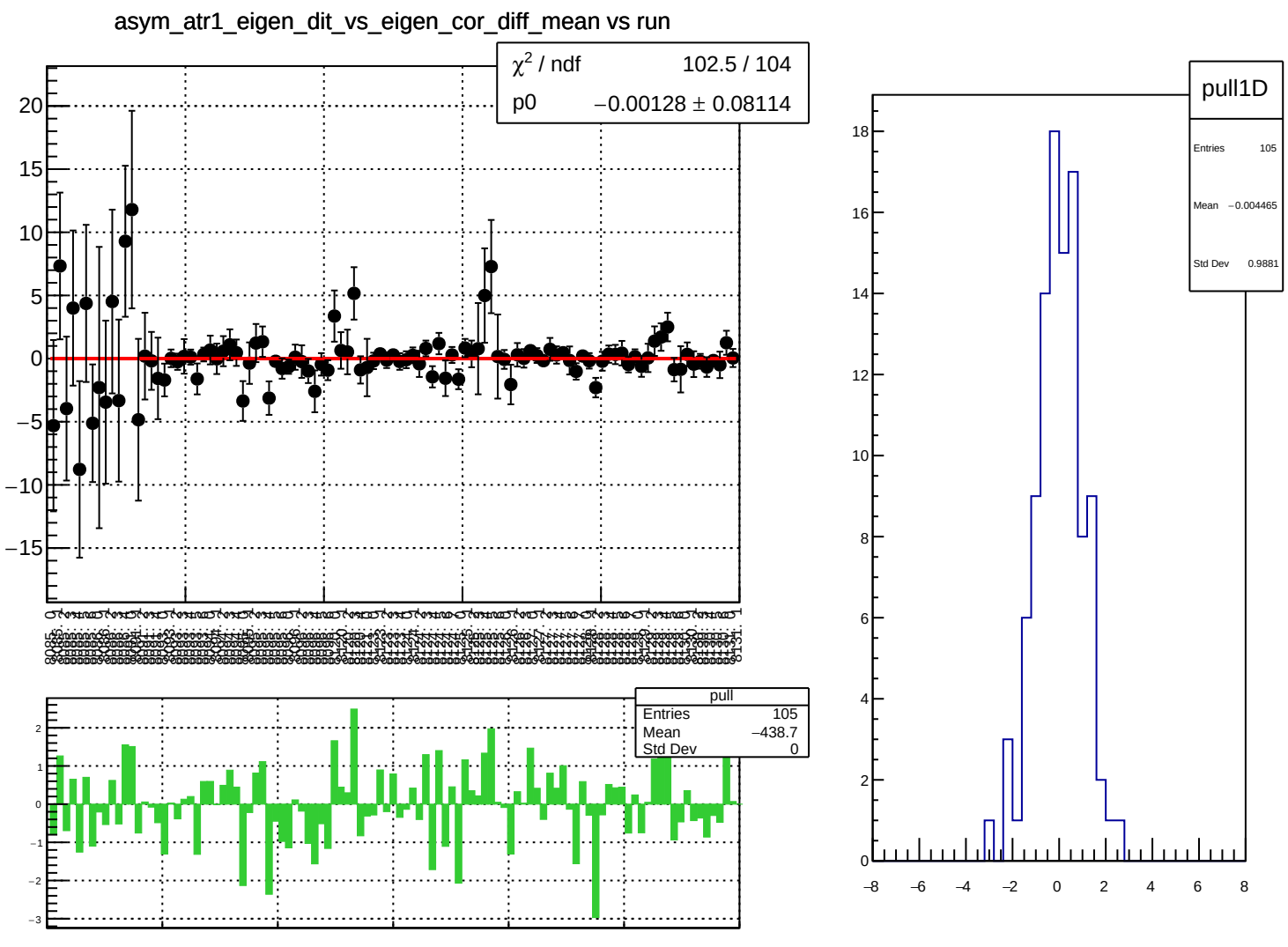

asym_atr1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 85.89 / 104
p0 −3.184e−06 ± 1.856e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
pull
Entries 105
Mean −6.051
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

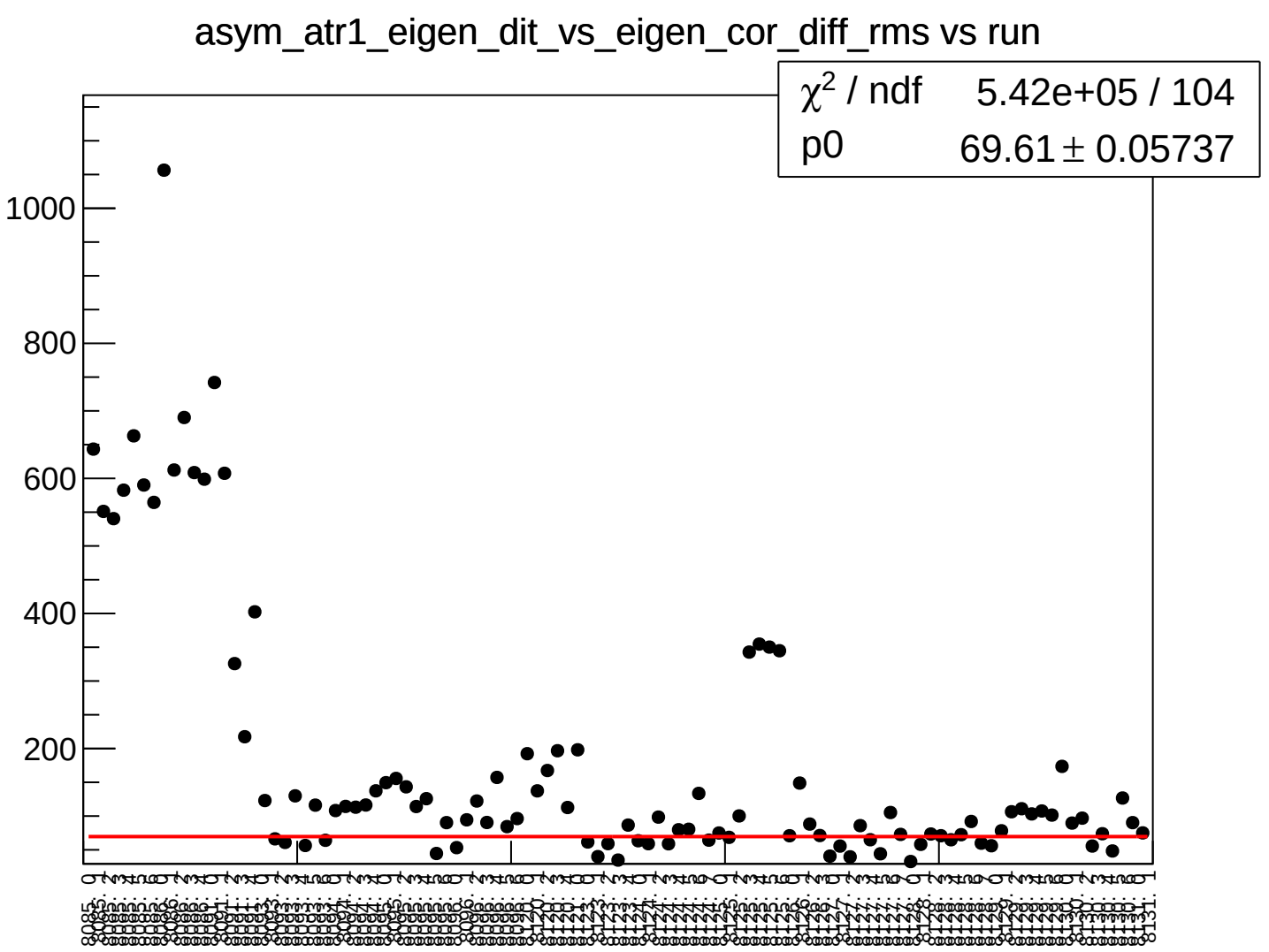

pull1D
Entries 105
Mean −0.03334
Std Dev 0.9038
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

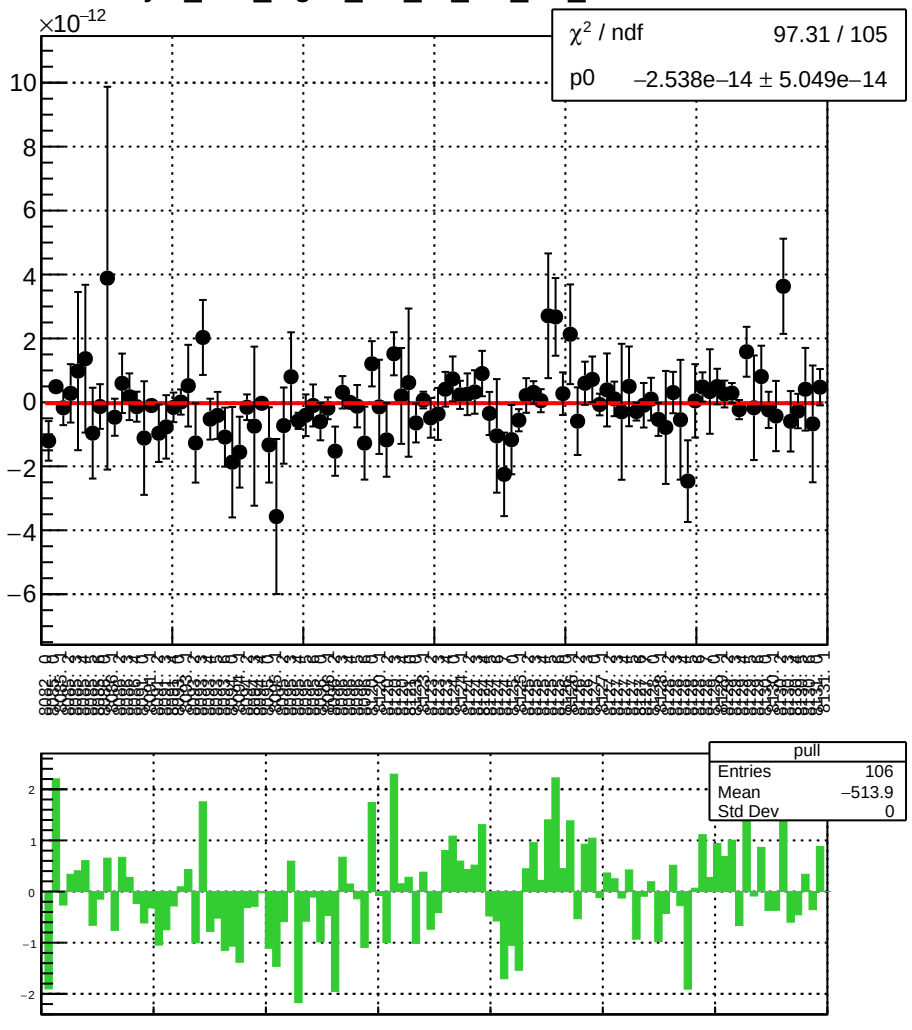

asym_atr1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.284e+05 / 104
p0 0.001803 ± 1.313e−06
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014

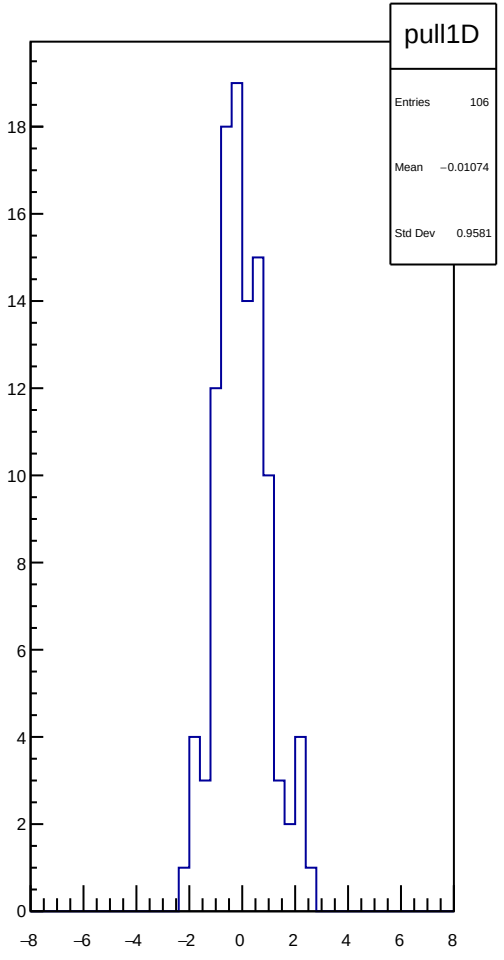

asym_atr1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 102.5 / 104
p0 −0.00128 ± 0.08114
pull
Entries 105
Mean −438.7
Std Dev 0
pull1D
Entries 105
Mean −0.004465
Std Dev 0.9881

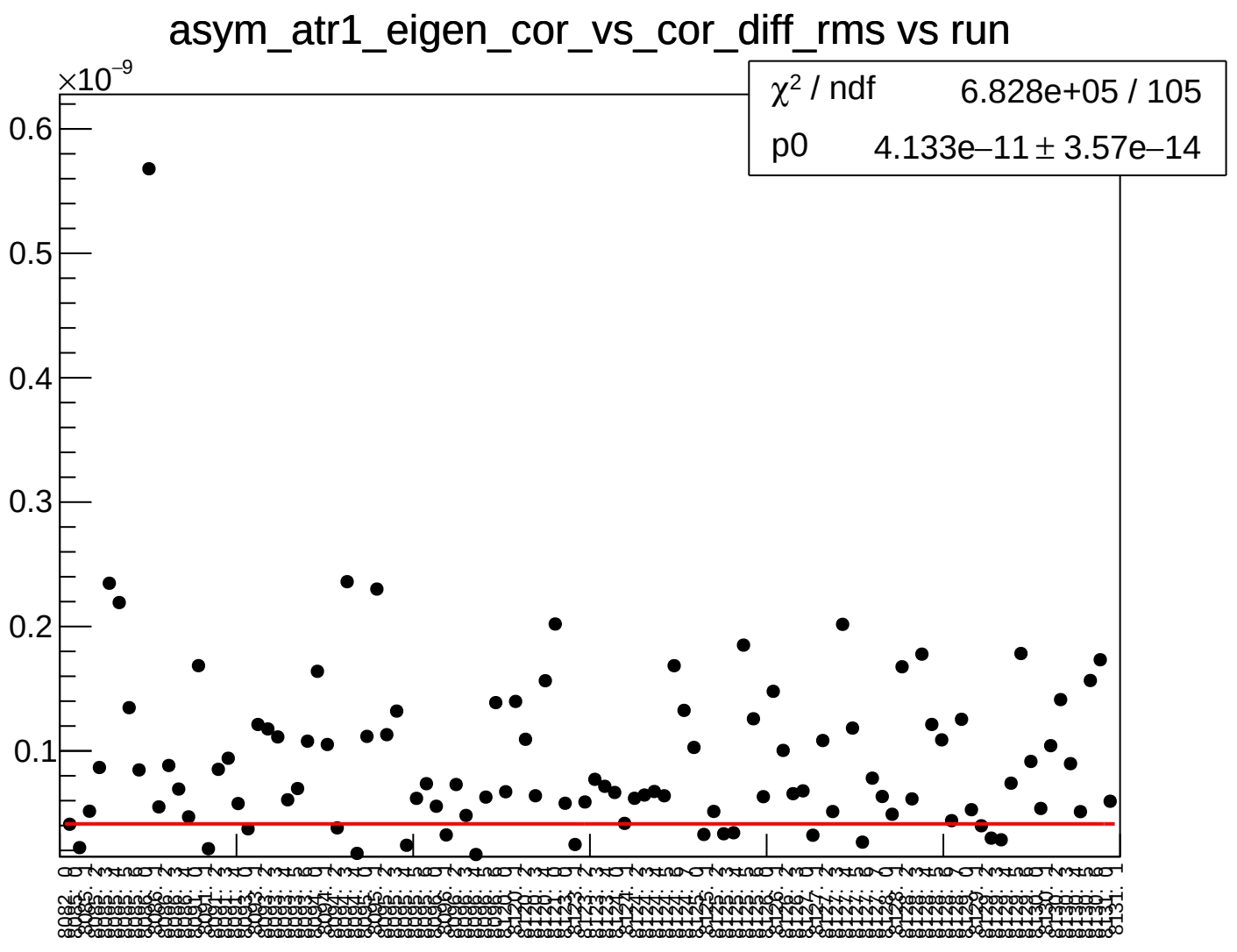

asym_atr1_eigen_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 5.42e+05 / 104
p0 69.61 ± 0.05737
1000
800
600
400
200

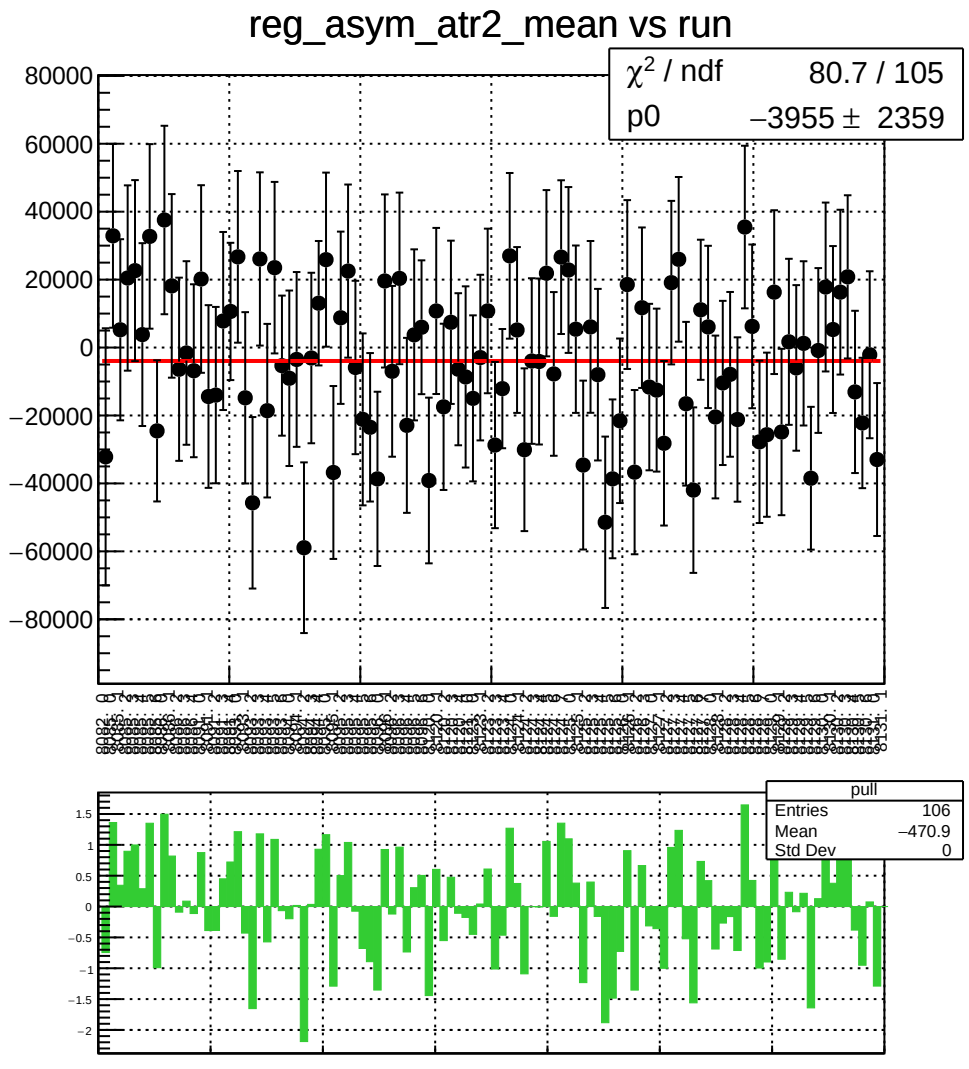

asym_atr1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.5 / 104
p0 −0.00128 ± 0.08114
pull
Entries 105
Mean −438.7
Std Dev 0
pull1D
Entries 105
Mean −0.004465
Std Dev 0.9881

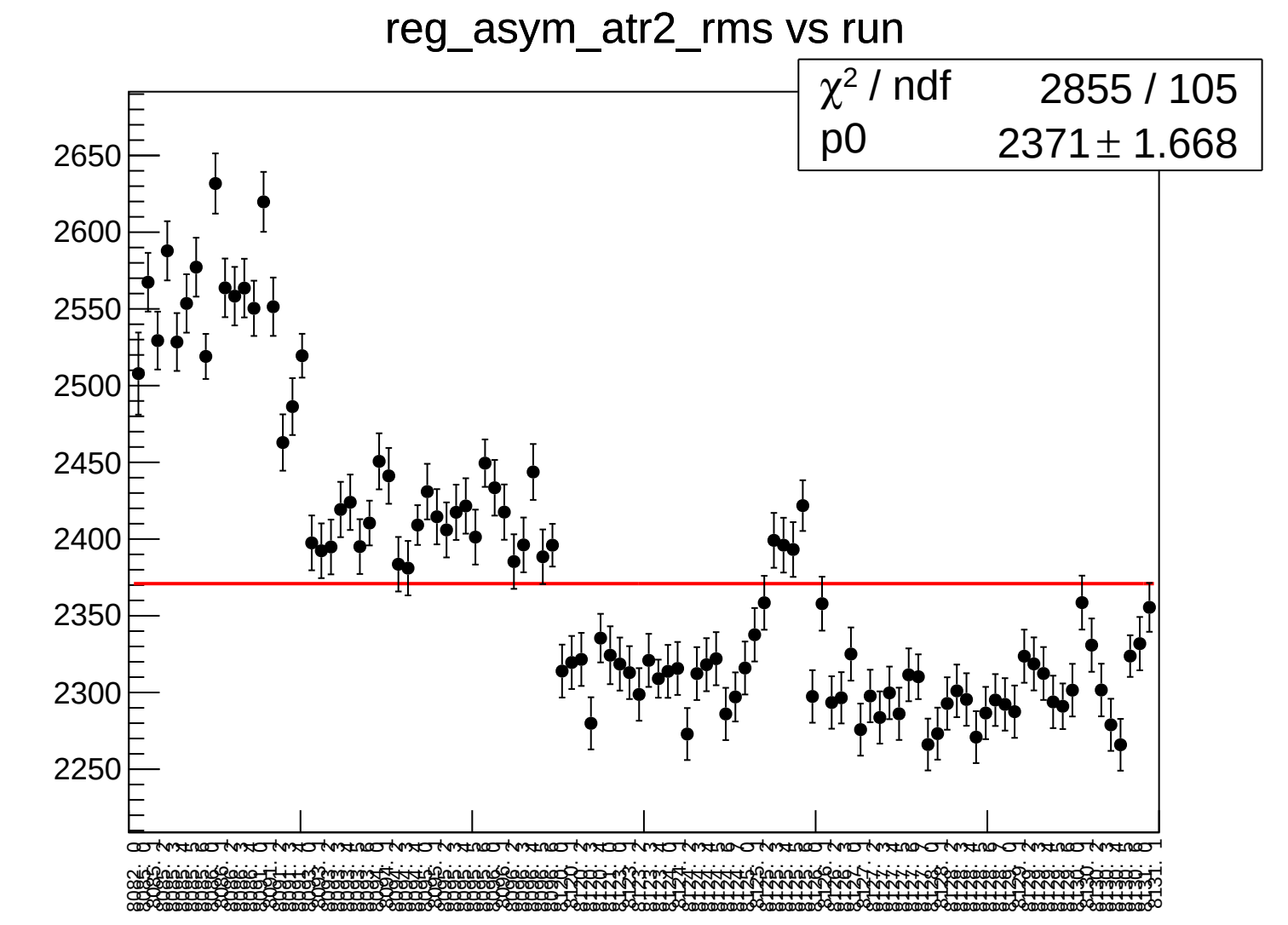

asym_atr1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.42e+05 / 104
p0 69.61 ± 0.05737
1000
800
600
400
200

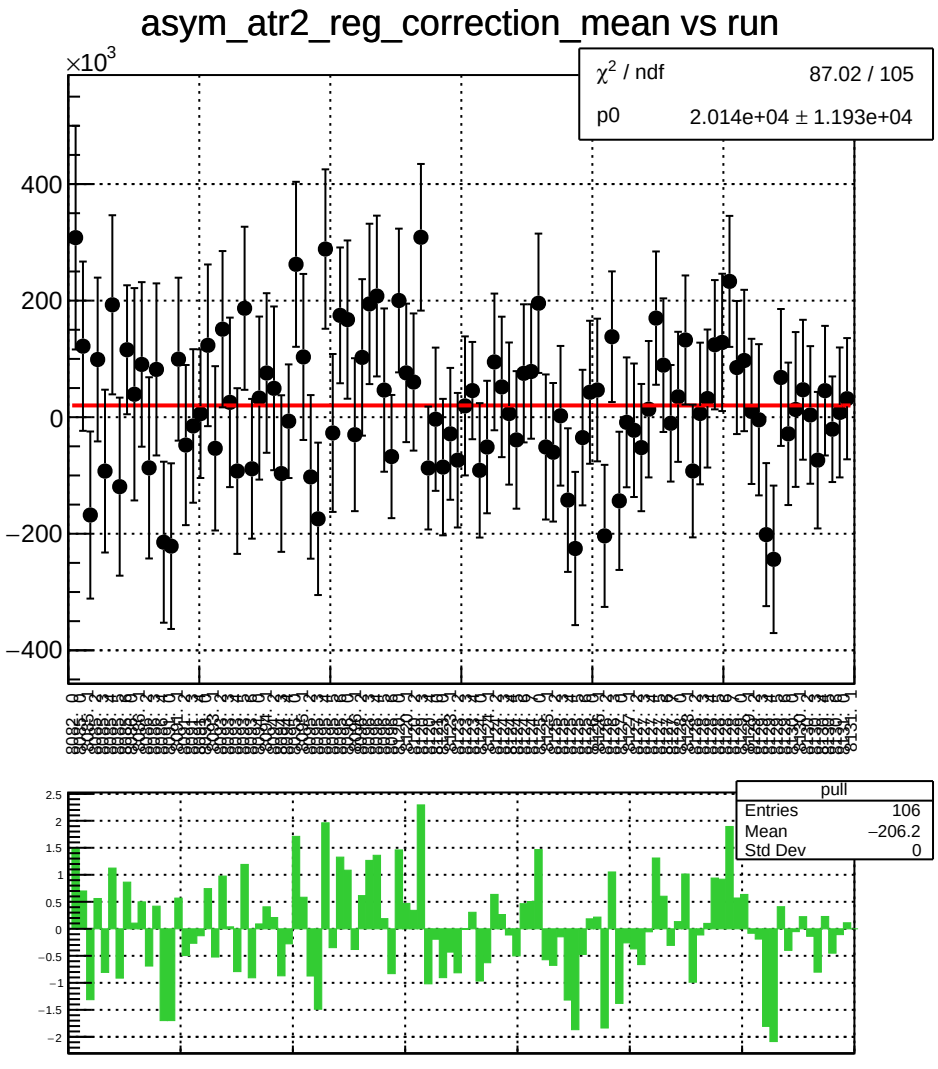

asym_atr1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.31 / 105
p0 −2.538e−14 ± 5.049e−14
pull
Entries 106
Mean −513.9
Std Dev 0

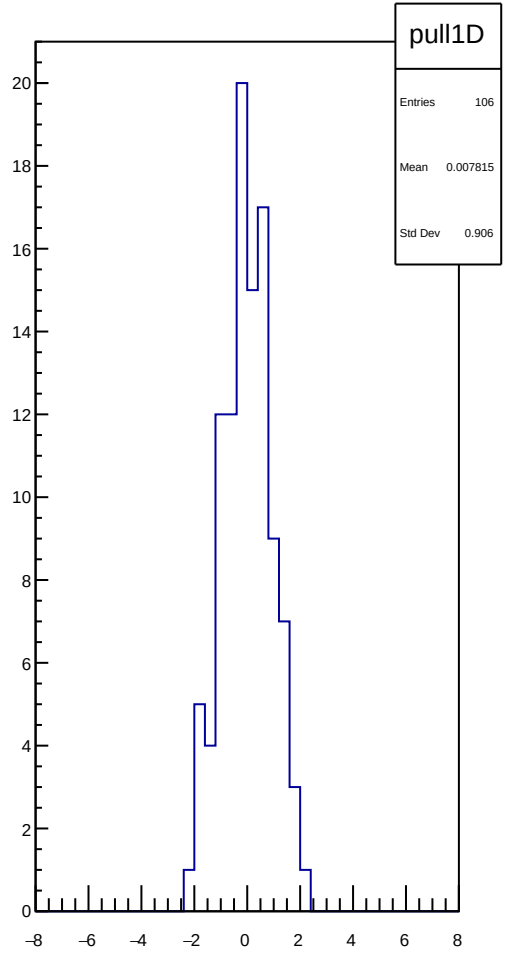

pull1D
Entries 106
Mean −0.01074
Std Dev 0.9581

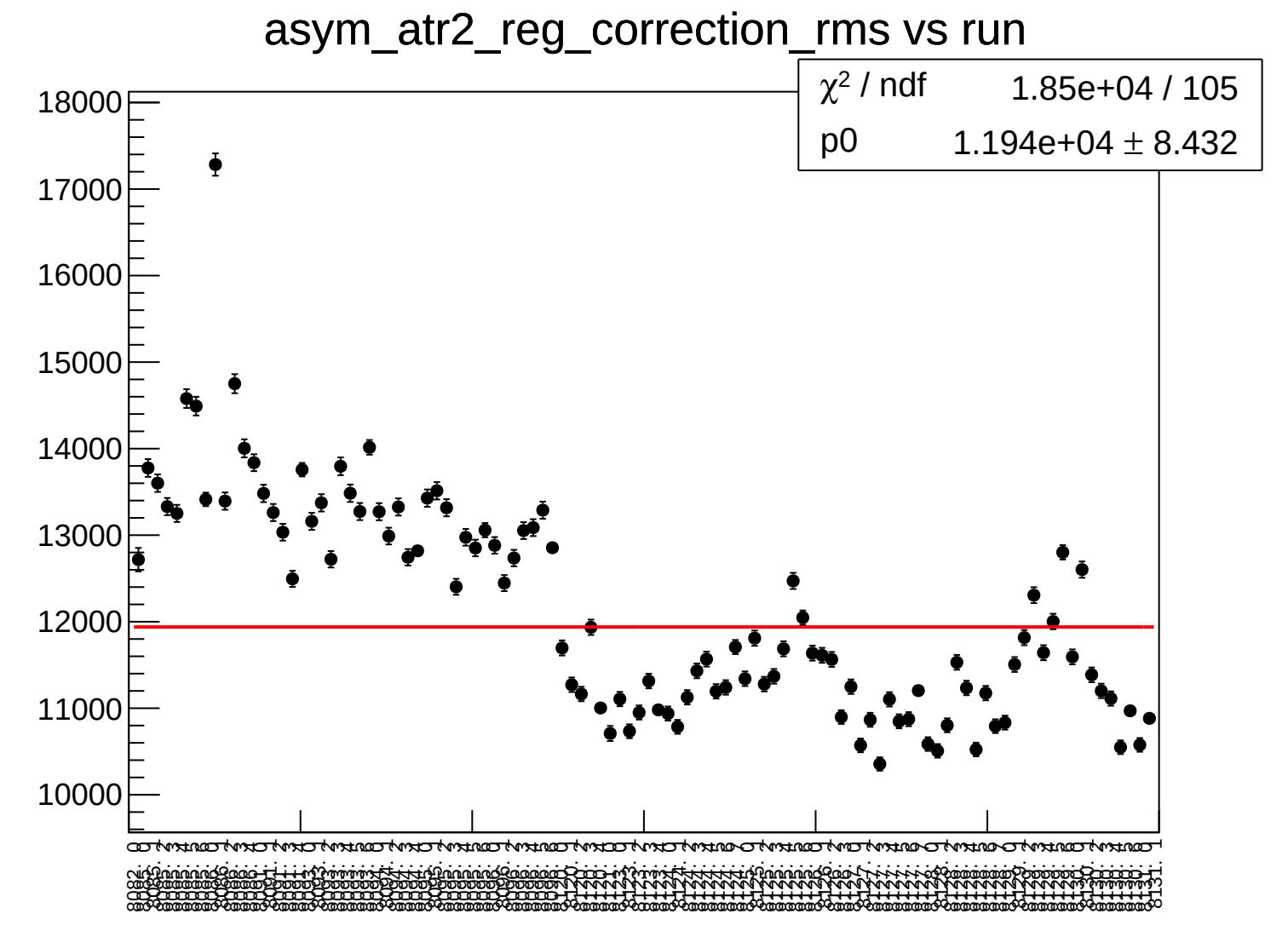

asym_atr1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.6
0.5
0.4
0.3
0.2
0.1
χ² / ndf 6.828e+05 / 105
p0 4.133e−11 ± 3.57e−14

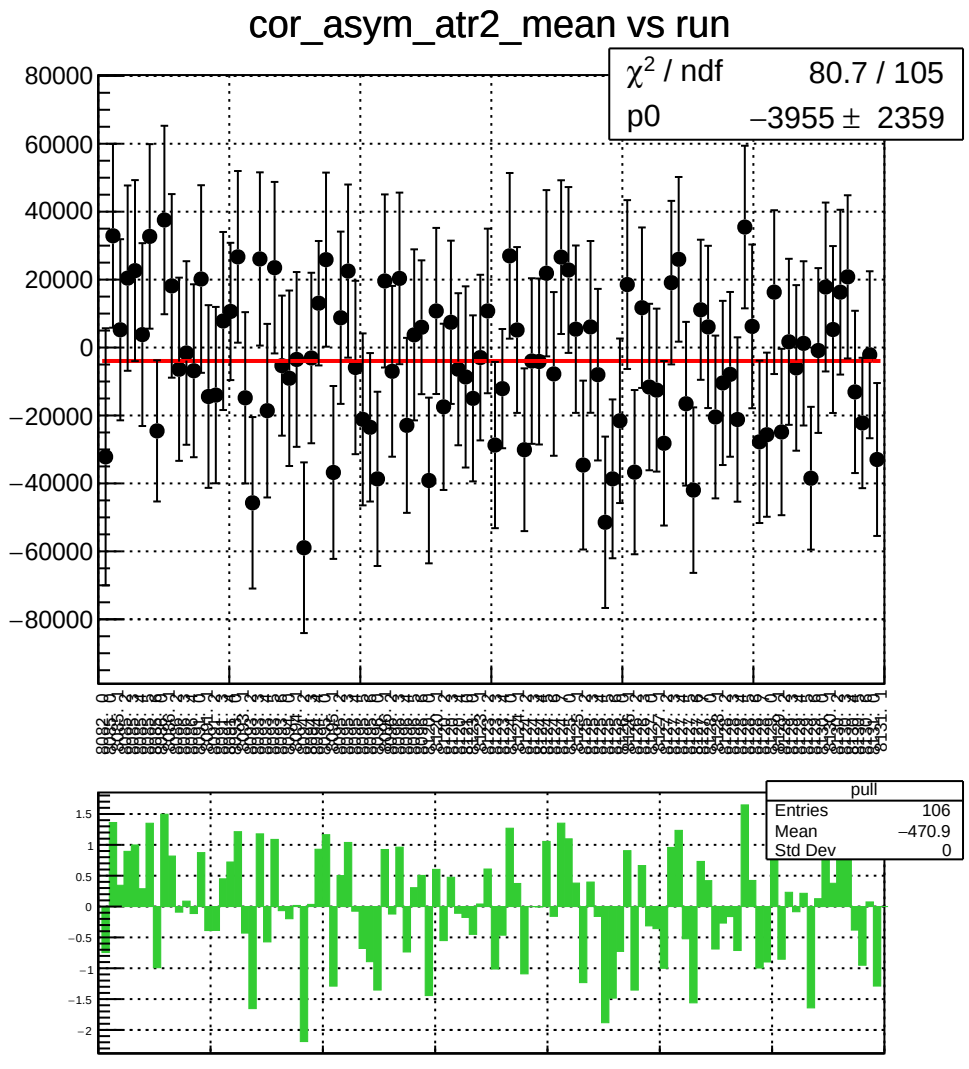

reg_asym_atr2_mean vs run
χ² / ndf 80.7 / 105
p0 −3955 ± 2359
pull
Entries 106
Mean −470.9
Std Dev 0
pull1D
Entries 106
Mean 0.007848
Std Dev 0.8725

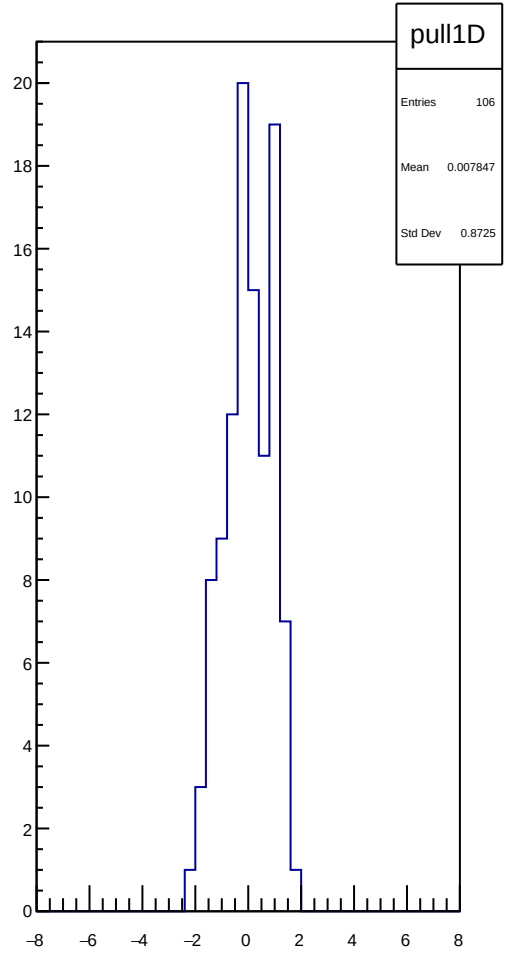

reg_asym_atr2_rms vs run
$\chi^2$ / ndf 2855 / 105
p0 2371 ± 1.668
2650
2600
2550
2500
2450
2400
2350
2300
2250

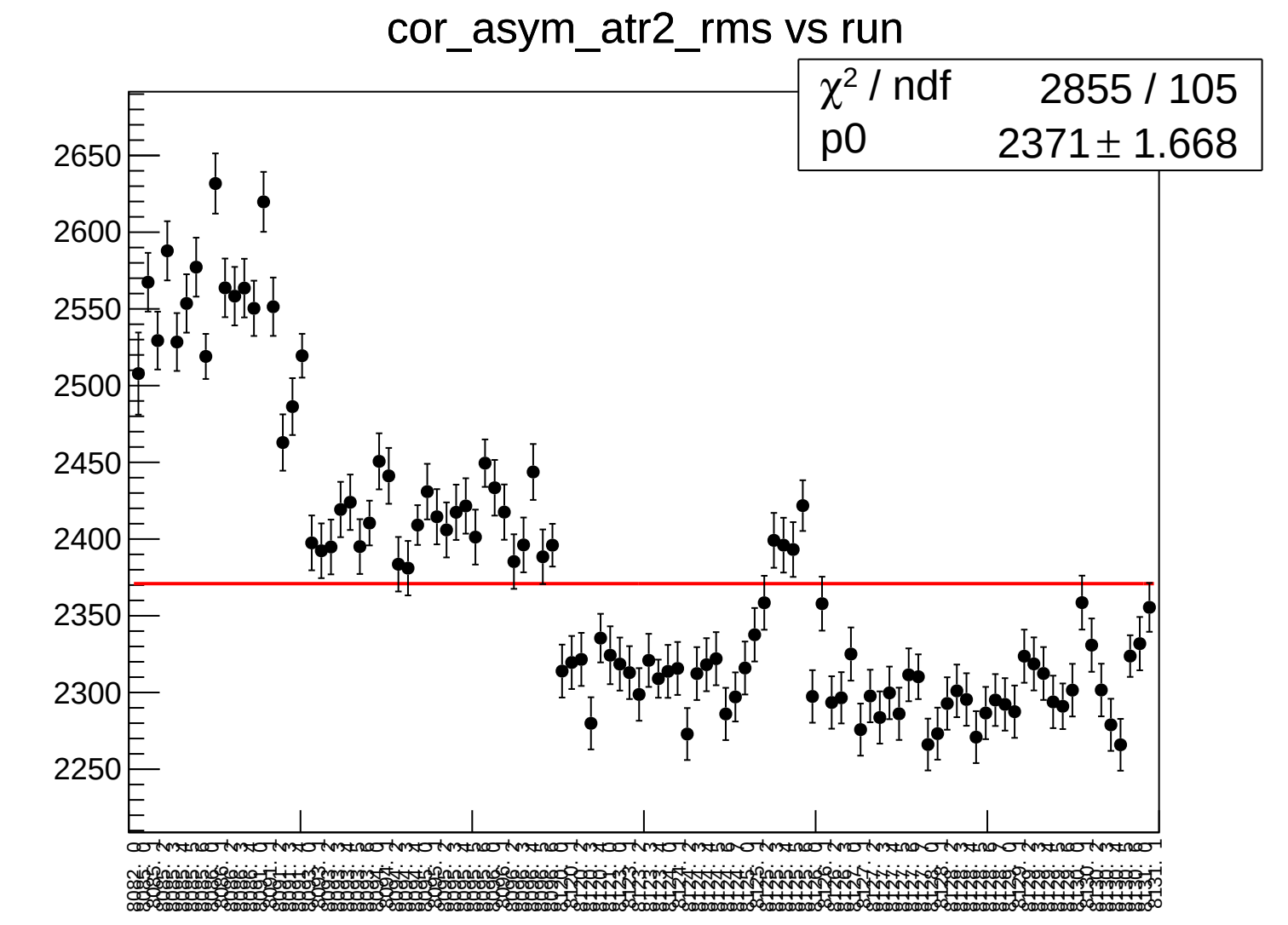

asym_atr2_reg_correction_mean vs run
×10^3
χ² / ndf 87.02 / 105
p0 2.014e+04 ± 1.193e+04
400
200
0
−200
−400
pull
Entries 106
Mean −206.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

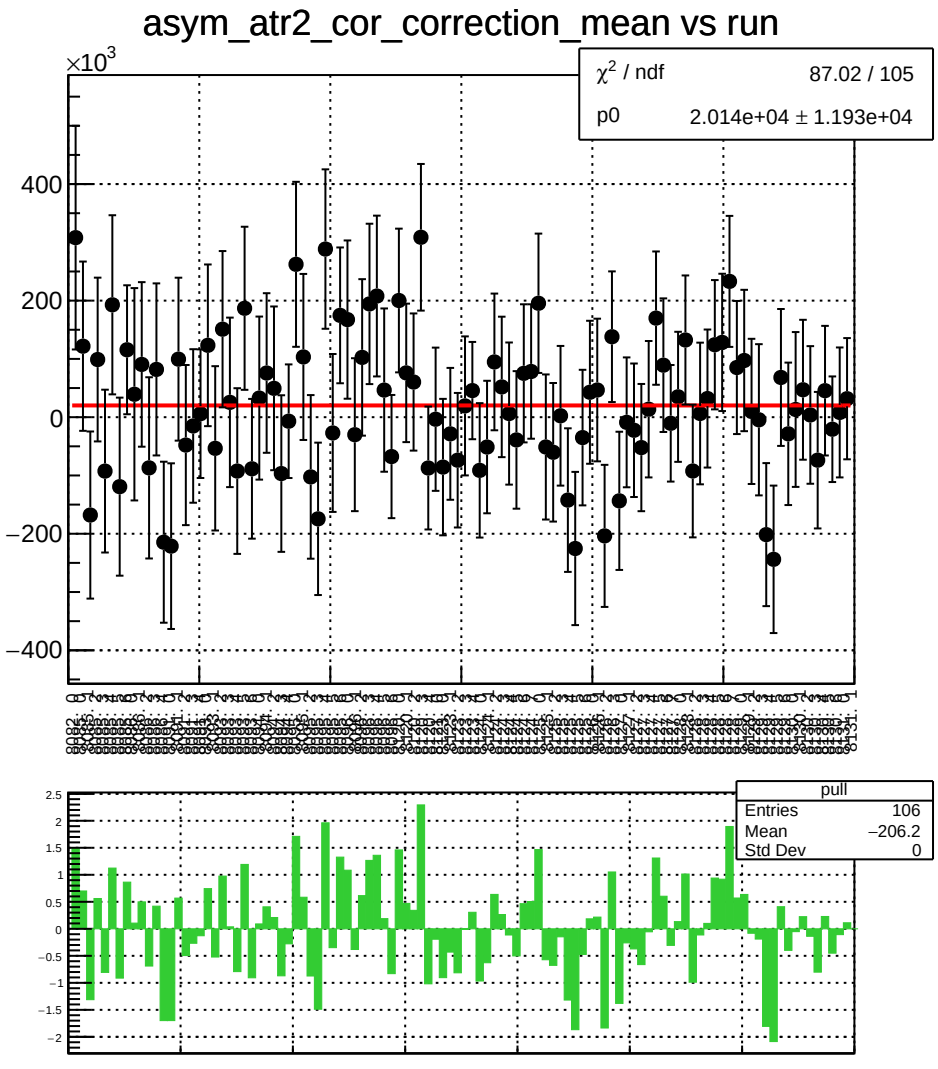

pull1D
Entries 106
Mean 0.007815
Std Dev 0.906
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

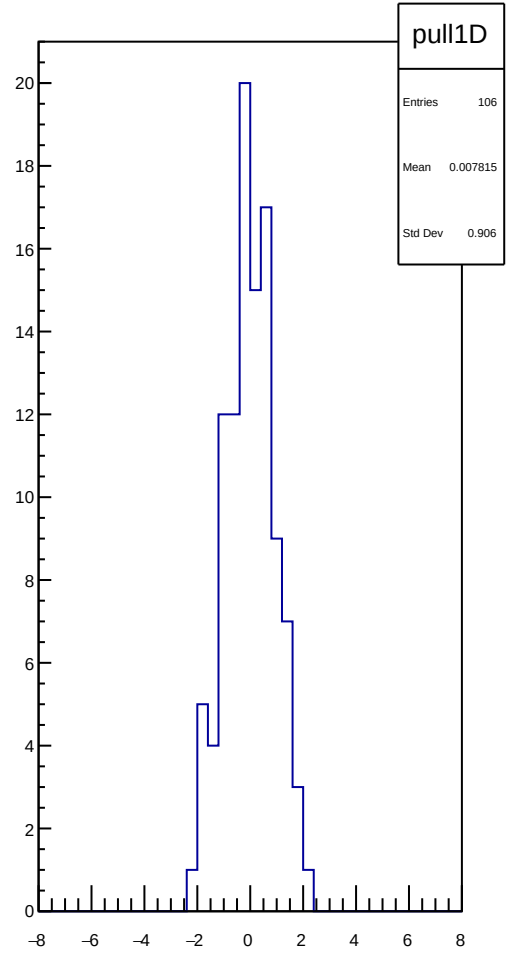

asym_atr2_reg_correction_rms vs run
χ² / ndf 1.85e+04 / 105
p0 1.194e+04 ± 8.432
18000
17000
16000
15000
14000
13000
12000
11000
10000

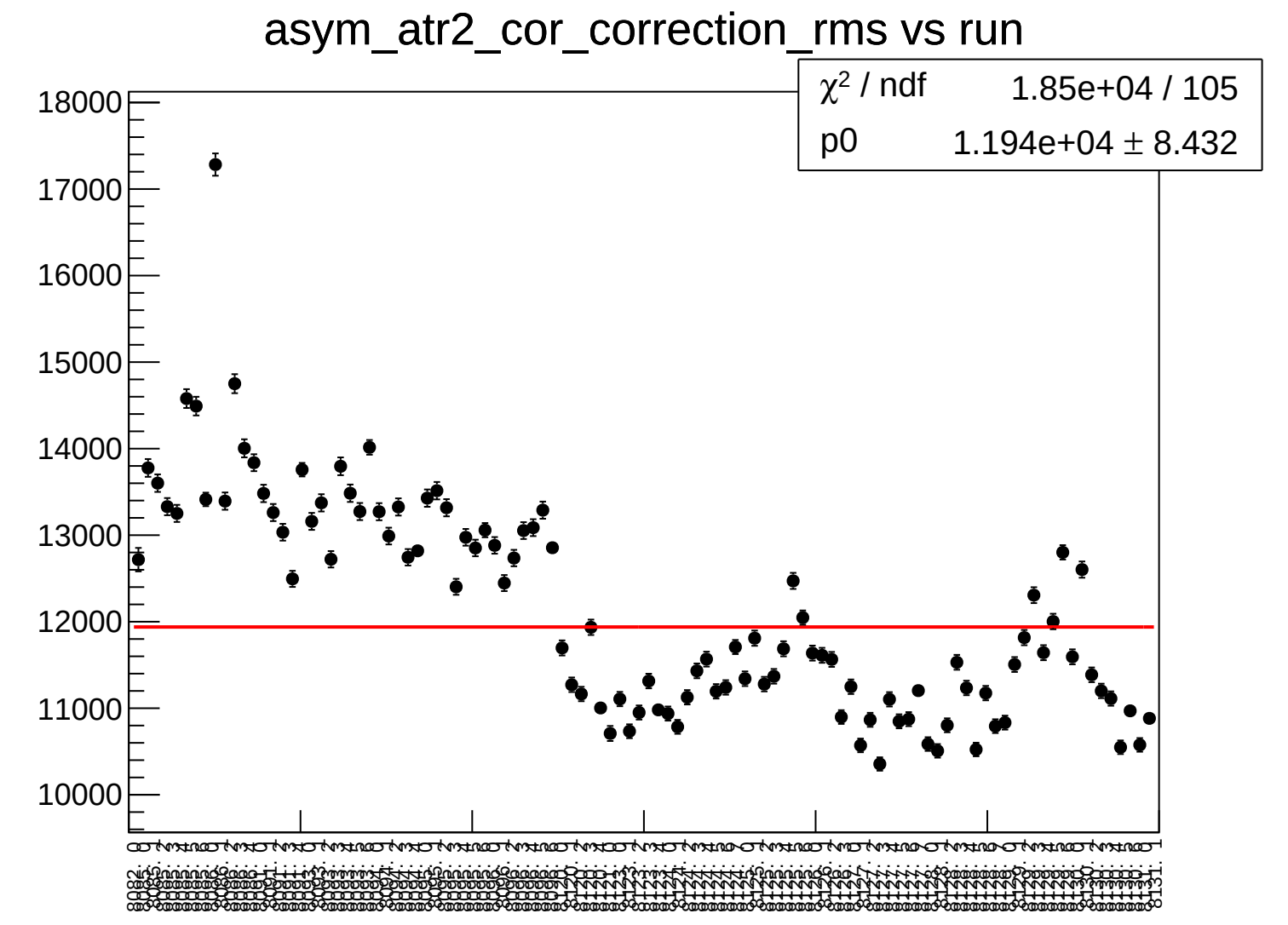

cor_asym_atr2_mean vs run
χ² / ndf 80.7 / 105
p0 −3955 ± 2359
pull
Entries 106
Mean −470.9
Std Dev 0

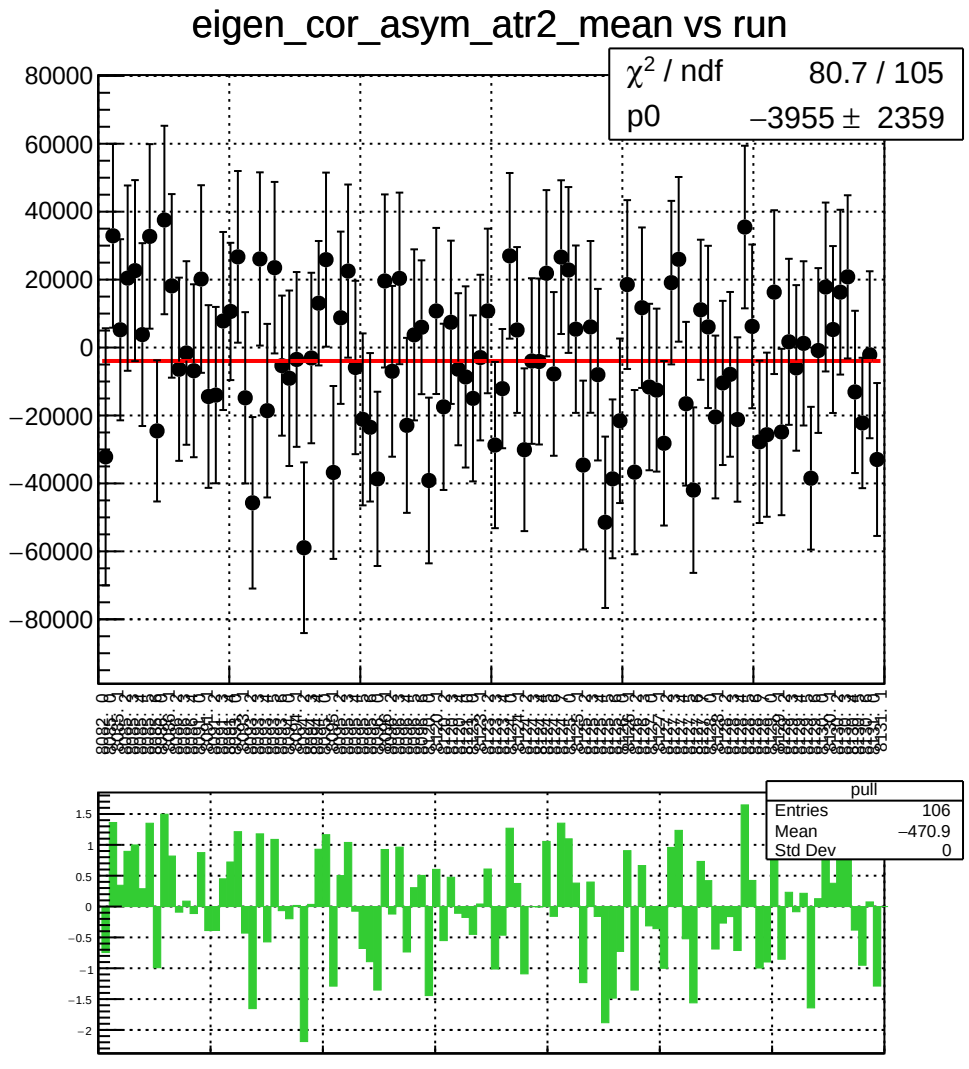

pull1D
Entries 106
Mean 0.007847
Std Dev 0.8725

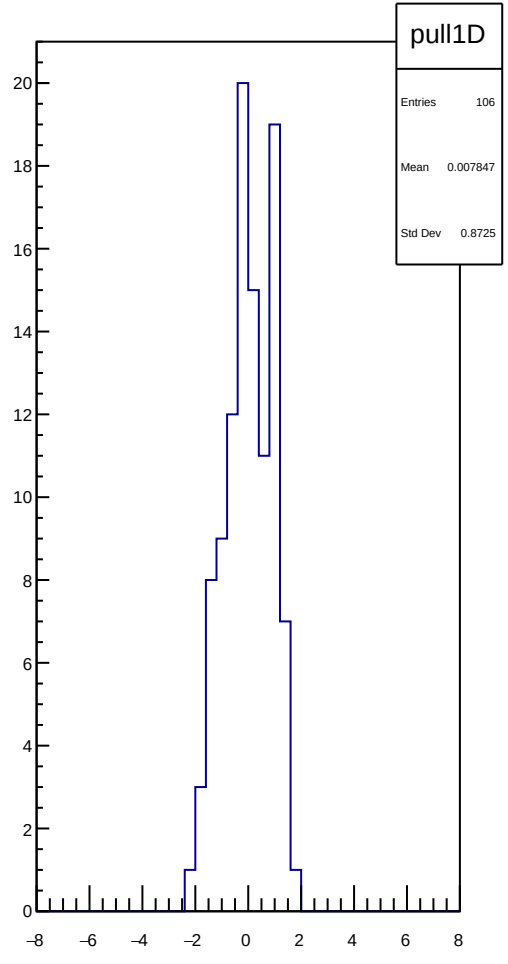

cor_asym_atr2_rms vs run
χ² / ndf 2855 / 105
p0 2371 ± 1.668
2650
2600
2550
2500
2450
2400
2350
2300
2250

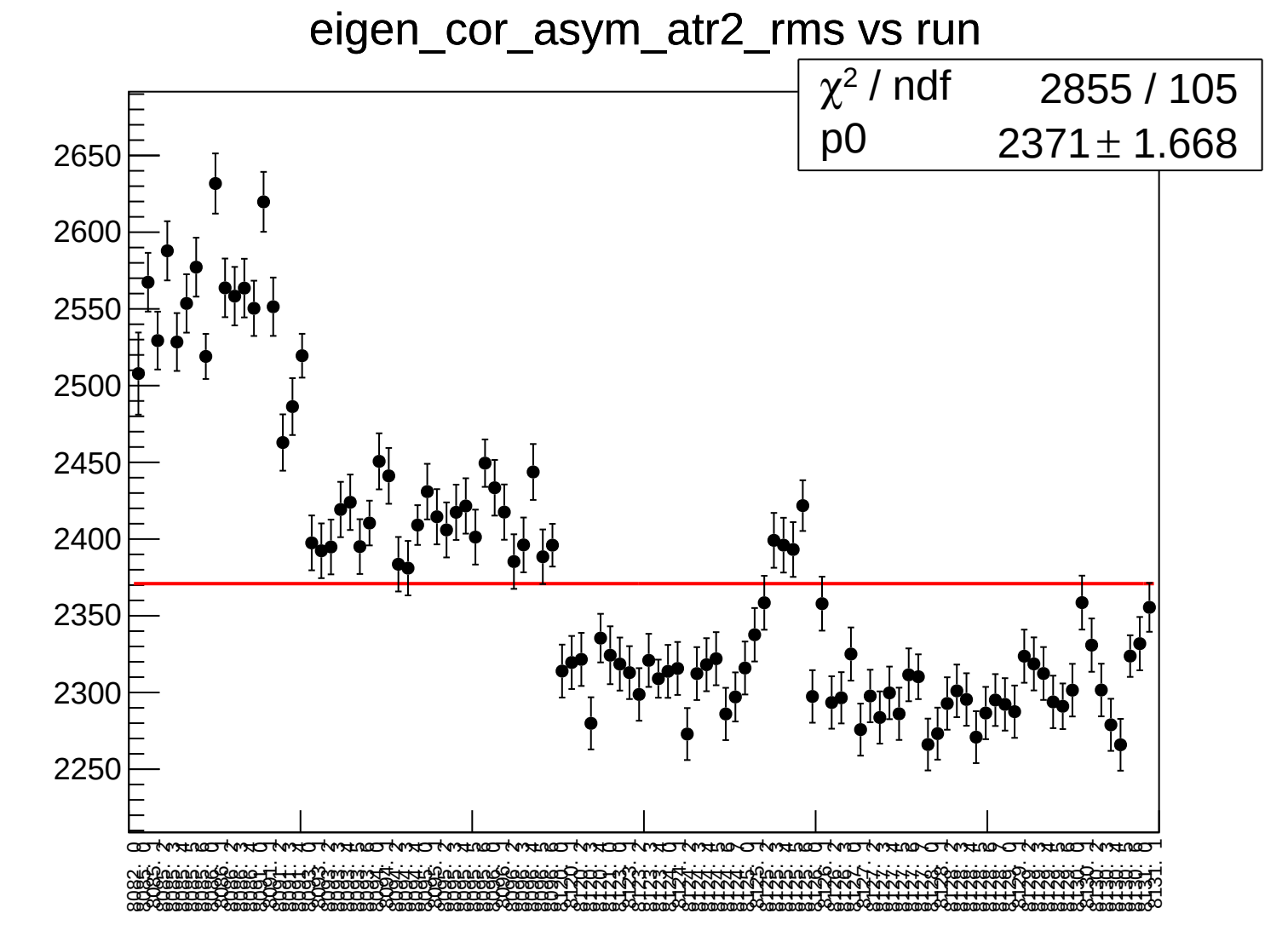

asym_atr2_cor_correction_mean vs run
×10^3
χ² / ndf 87.02 / 105
p0 2.014e+04 ± 1.193e+04
400
200
0
−200
−400
pull
Entries 106
Mean −206.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

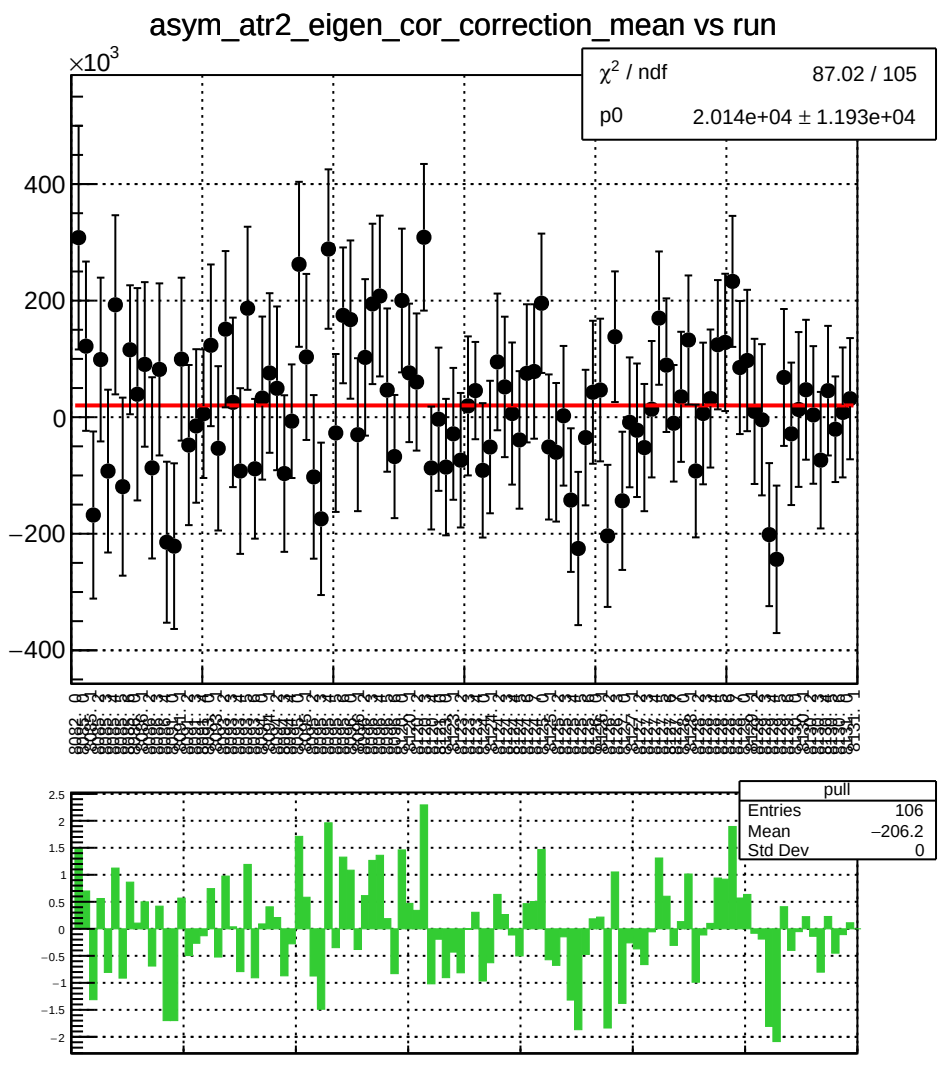

pull1D
Entries 106
Mean 0.007815
Std Dev 0.906
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

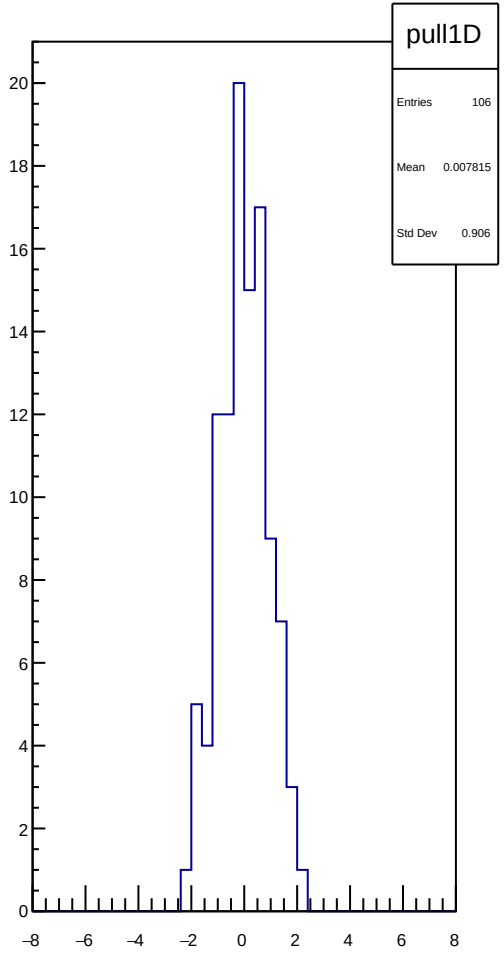

asym_atr2_cor_correction_rms vs run
χ² / ndf 1.85e+04 / 105
p0 1.194e+04 ± 8.432
18000
17000
16000
15000
14000
13000
12000
11000
10000

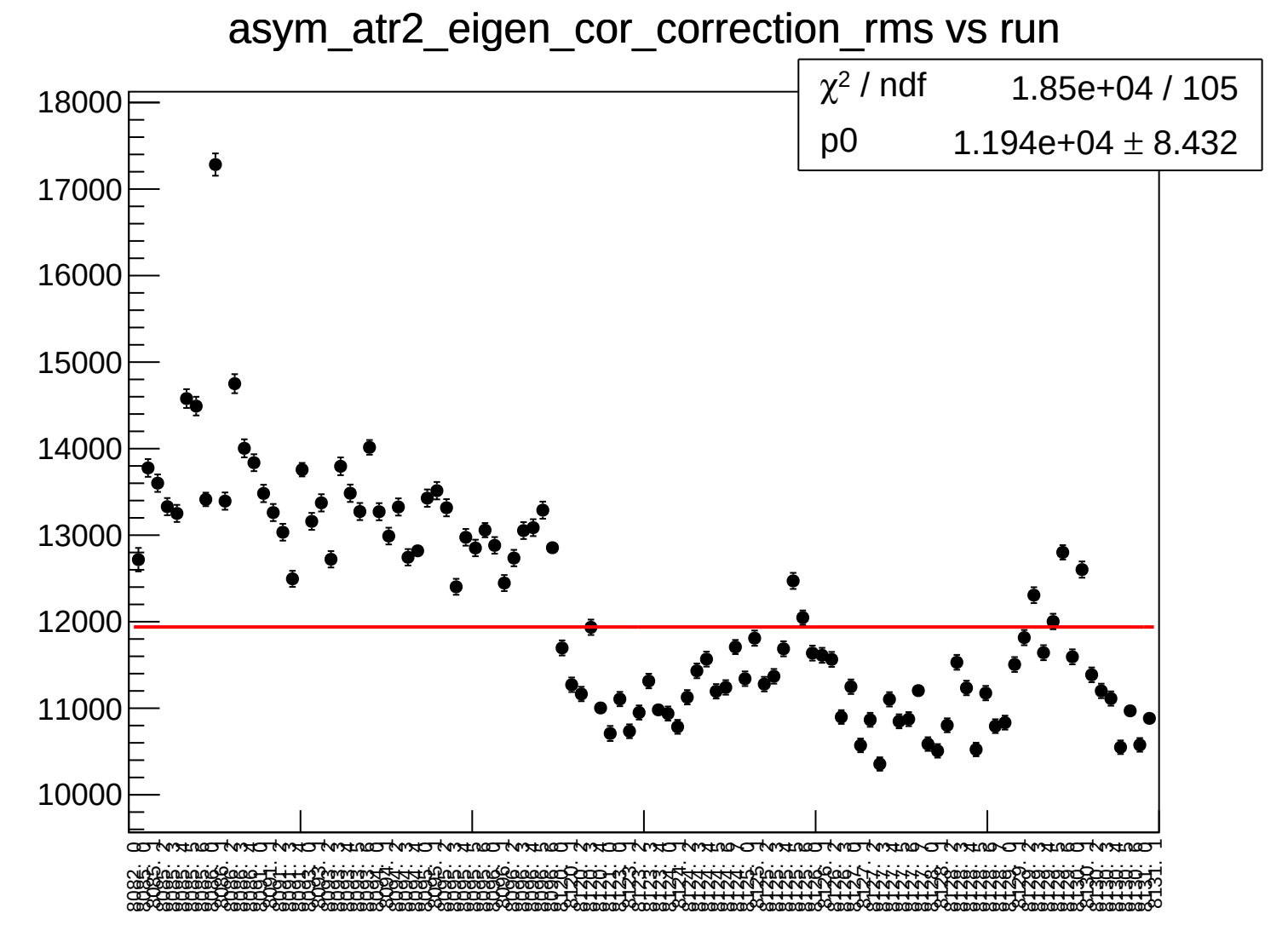

eigen_cor_asym_atr2_mean vs run
χ² / ndf 80.7 / 105
p0 −3955 ± 2359
pull
Entries 106
Mean −470.9
Std Dev 0

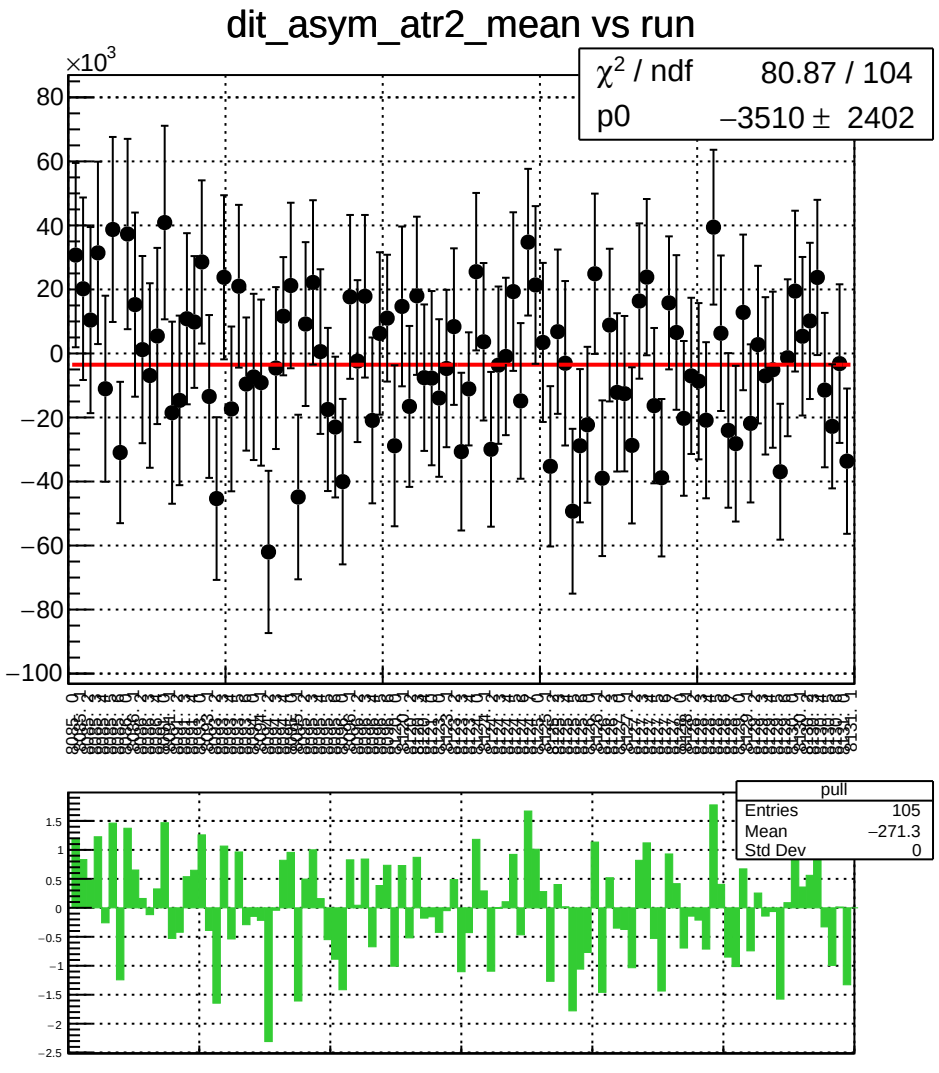

pull1D
Entries 106
Mean 0.007847
Std Dev 0.8725

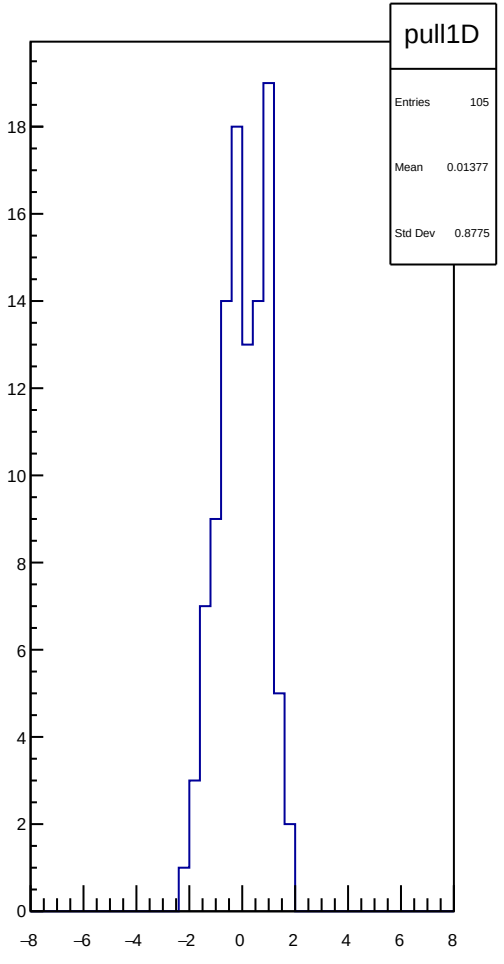

eigen_cor_asym_atr2_rms vs run
χ² / ndf 2855 / 105
p0 2371 ± 1.668
2650
2600
2550
2500
2450
2400
2350
2300
2250

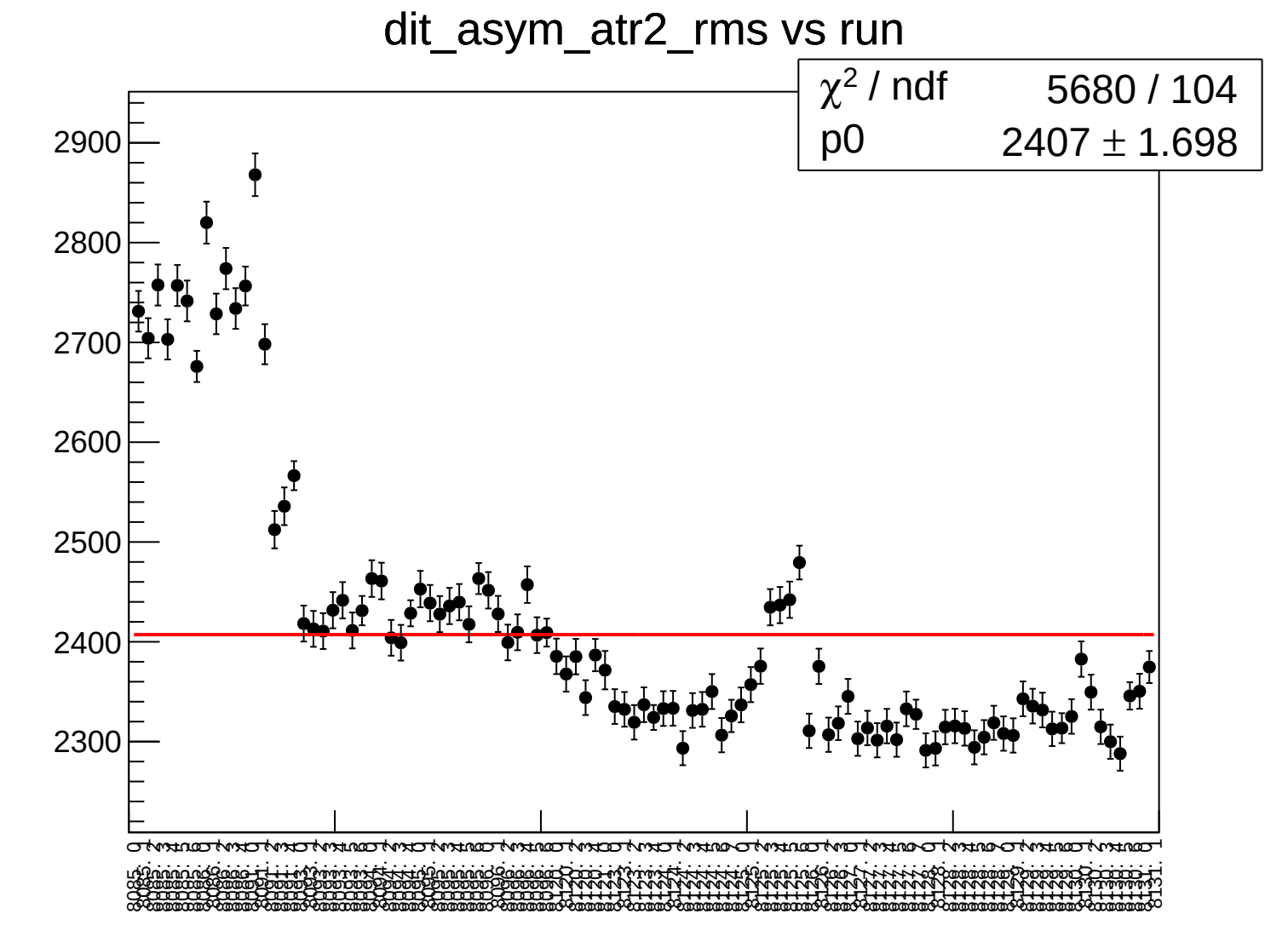

asym_atr2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 87.02 / 105
p0 2.014e+04 ± 1.193e+04
400
200
0
−200
−400
pull
Entries 106
Mean −206.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

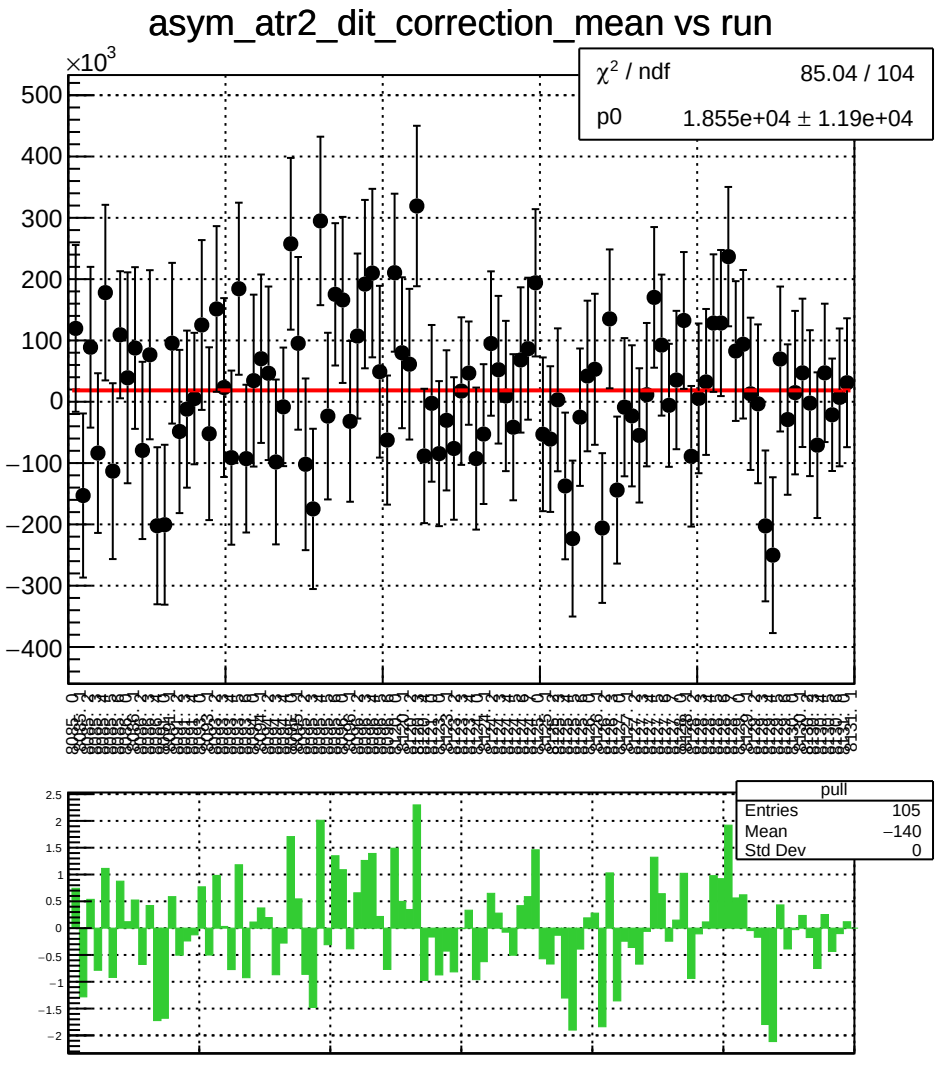

pull1D
Entries 106
Mean 0.007815
Std Dev 0.906
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

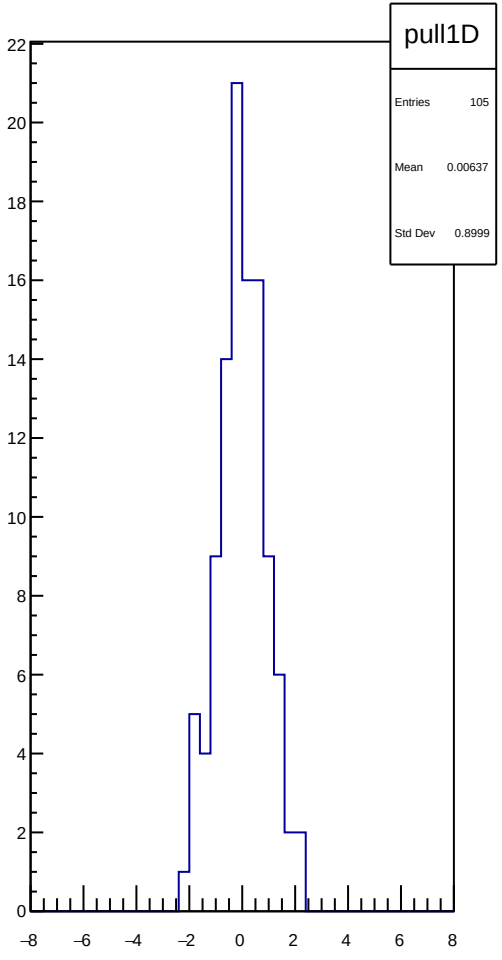

asym_atr2_eigen_cor_correction_rms vs run
χ² / ndf 1.85e+04 / 105
p0 1.194e+04 ± 8.432
18000
17000
16000
15000
14000
13000
12000
11000
10000

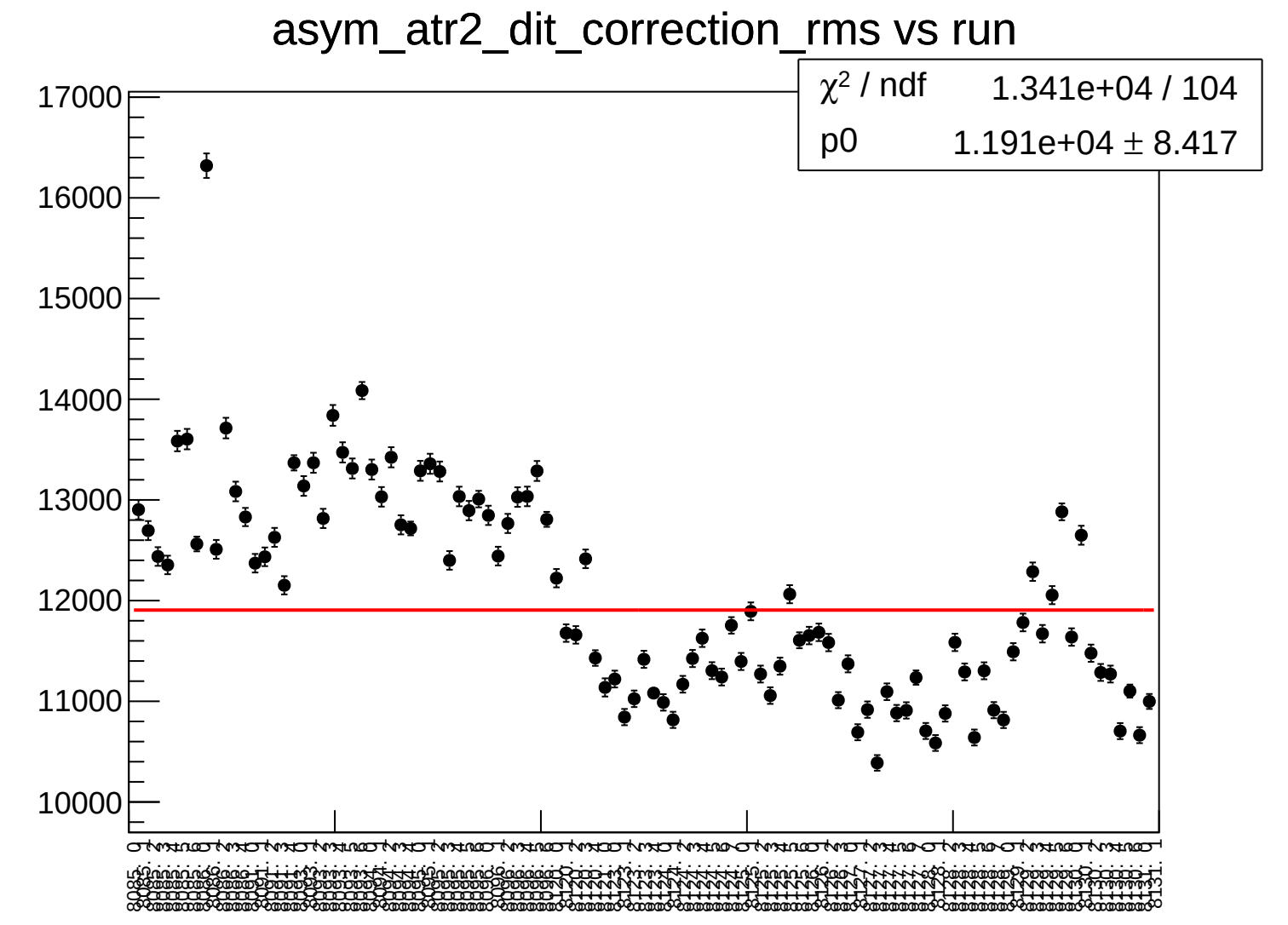

dit_asym_atr2_mean vs run
×10^3
χ^2 / ndf 80.87 / 104
p0 −3510 ± 2402
pull
Entries 105
Mean −271.3
Std Dev 0

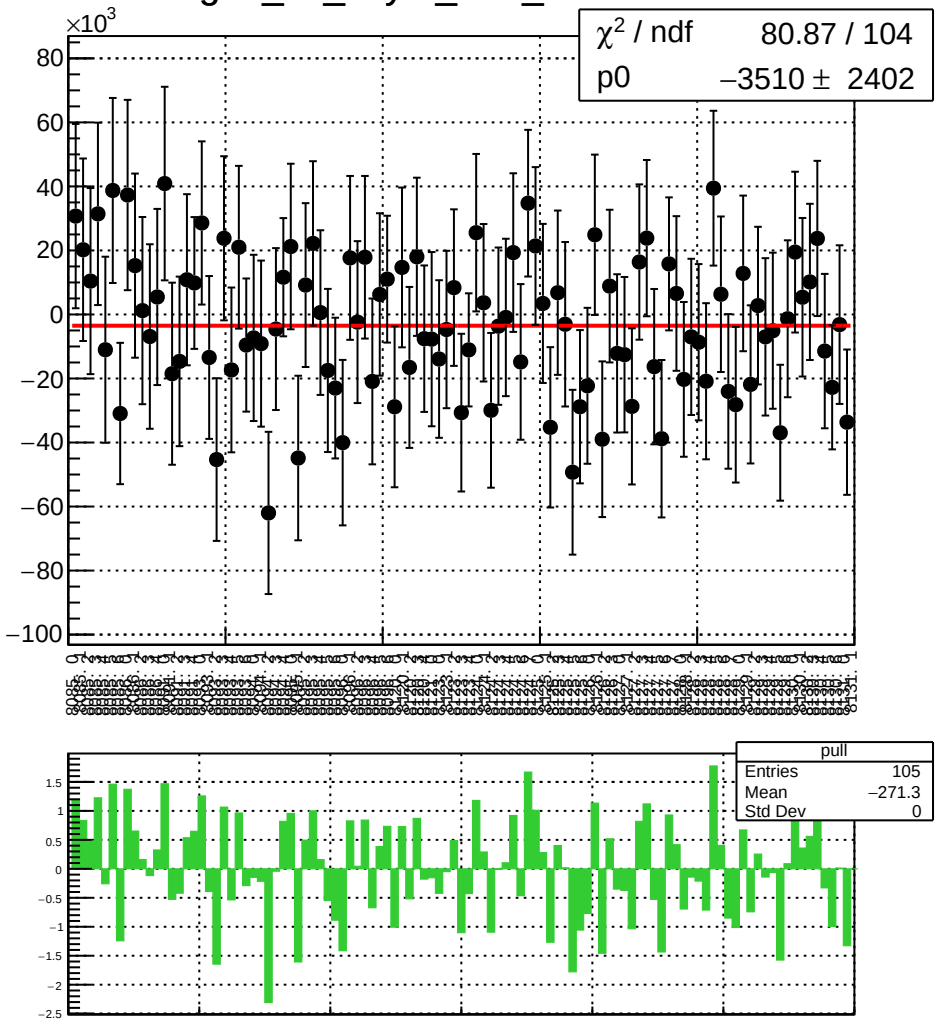

pull1D
Entries 105
Mean 0.01377
Std Dev 0.8775

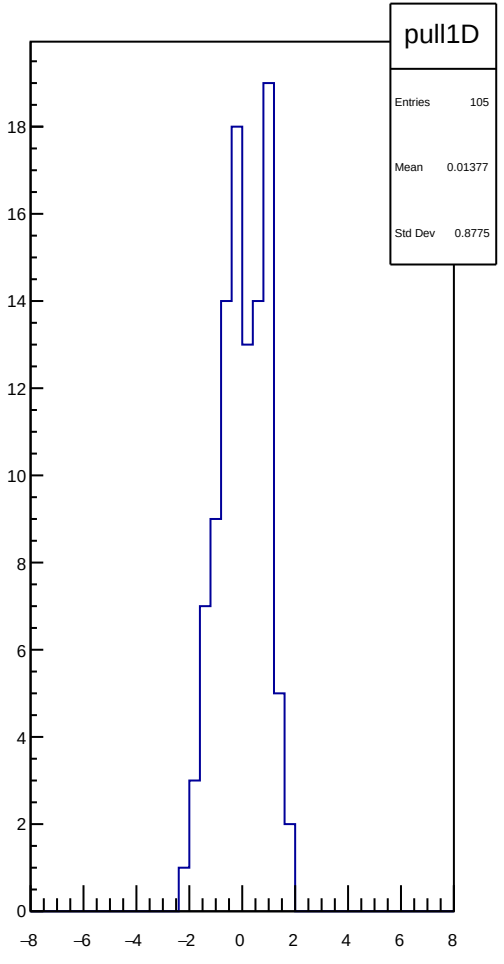

dit_asym_atr2_rms vs run
χ² / ndf 5680 / 104
p0 2407 ± 1.698
2900
2800
2700
2600
2500
2400
2300

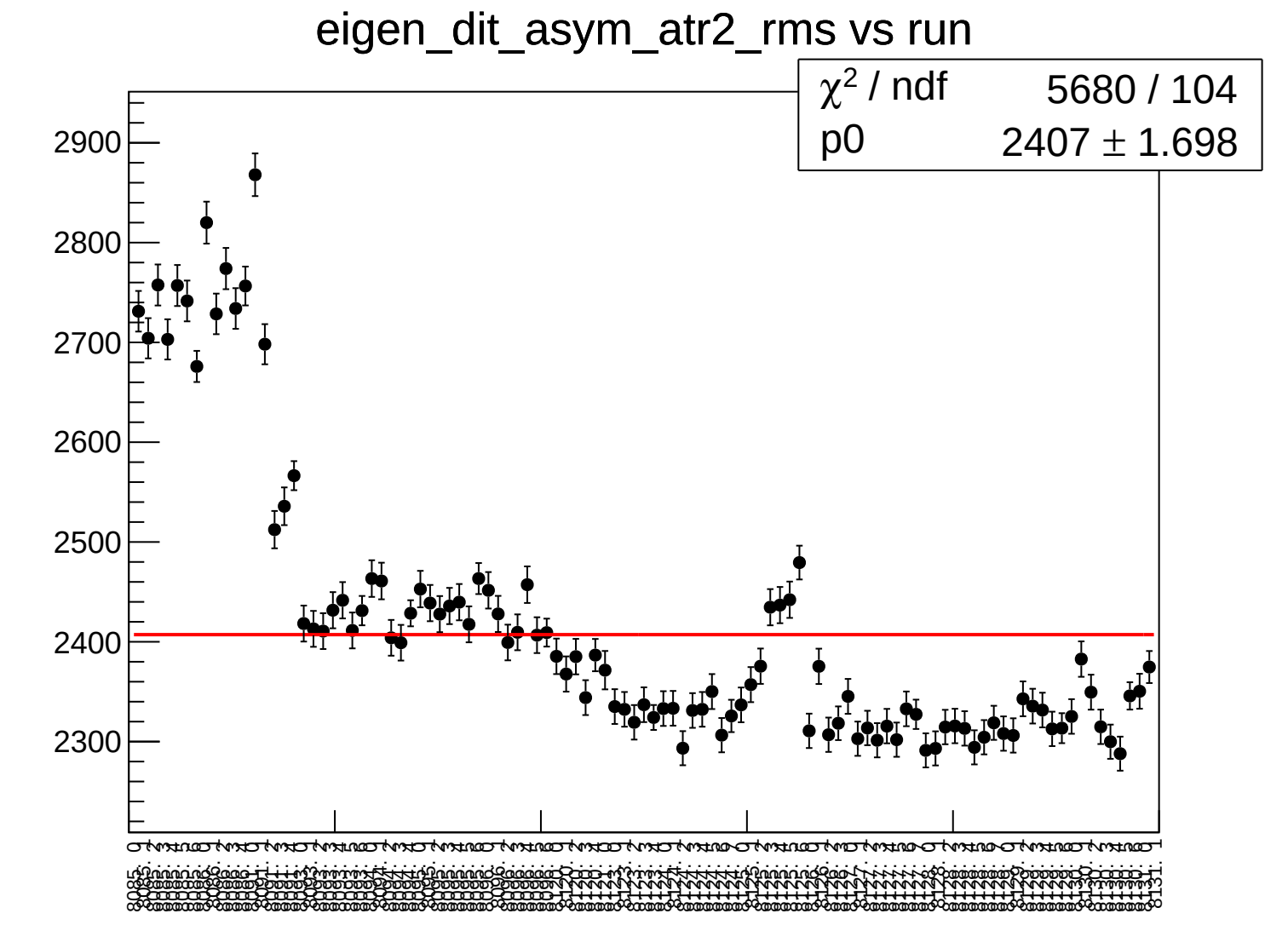

asym_atr2_dit_correction_mean vs run
×10^3
χ² / ndf 85.04 / 104
p0 1.855e+04 ± 1.19e+04
pull
Entries 105
Mean −140
Std Dev 0

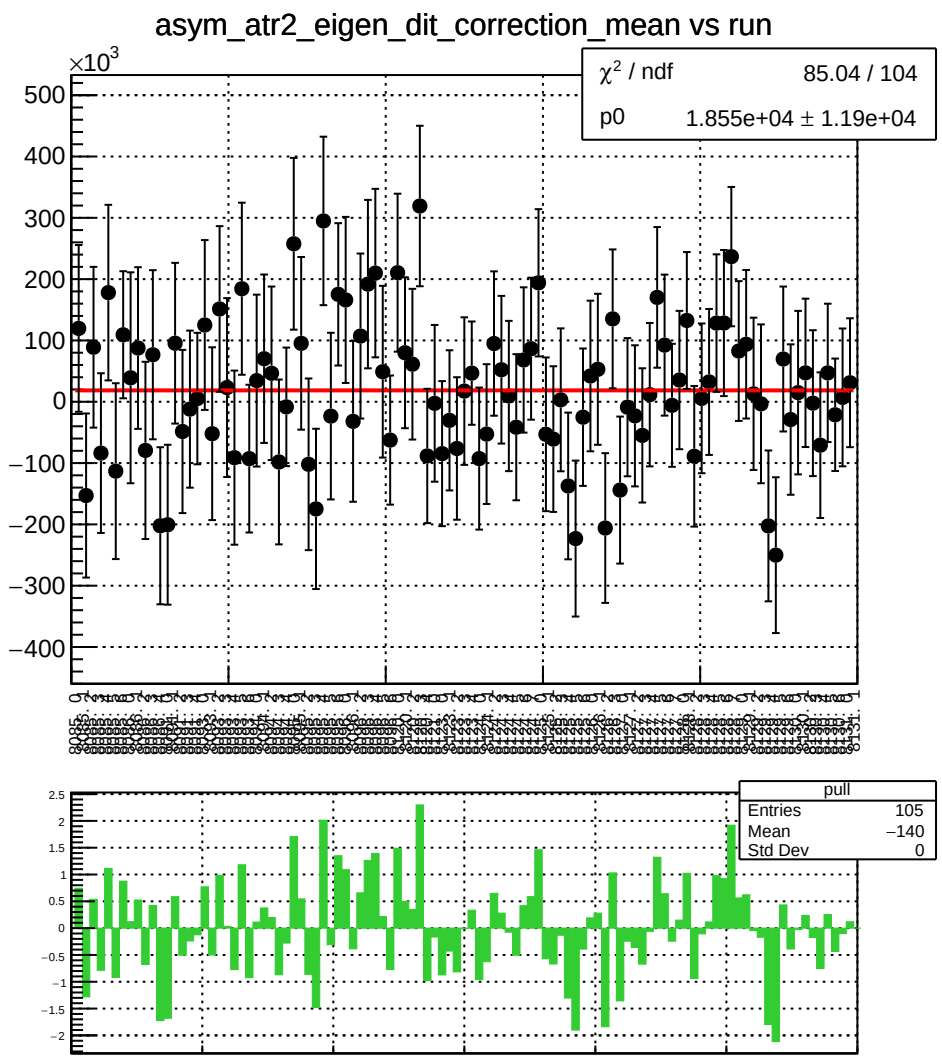

pull1D
Entries 105
Mean 0.00637
Std Dev 0.8999

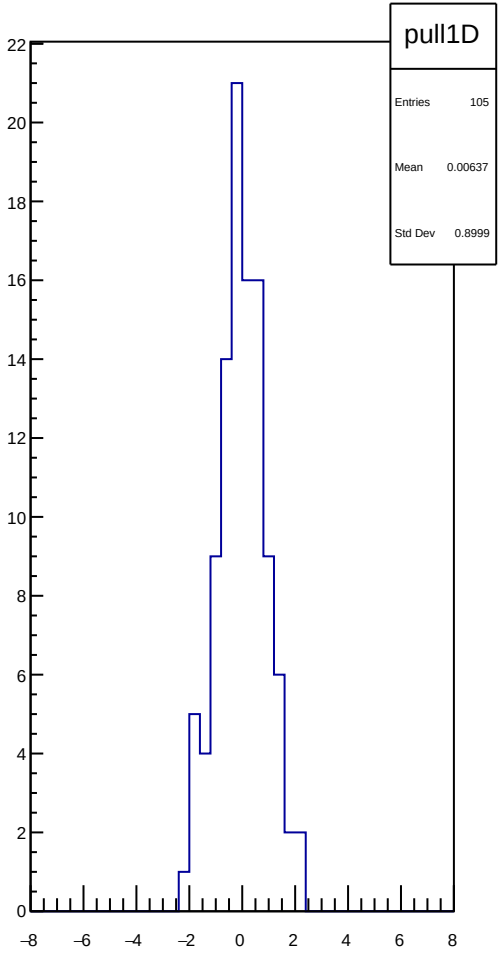

asym_atr2_dit_correction_rms vs run
χ² / ndf 1.341e+04 / 104
p0 1.191e+04 ± 8.417
17000
16000
15000
14000
13000
12000
11000
10000


eigen_dit_asym_atr2_mean vs run
×10^3
χ² / ndf 80.87 / 104
p0 −3510 ± 2402
pull
Entries 105
Mean −271.3
Std Dev 0

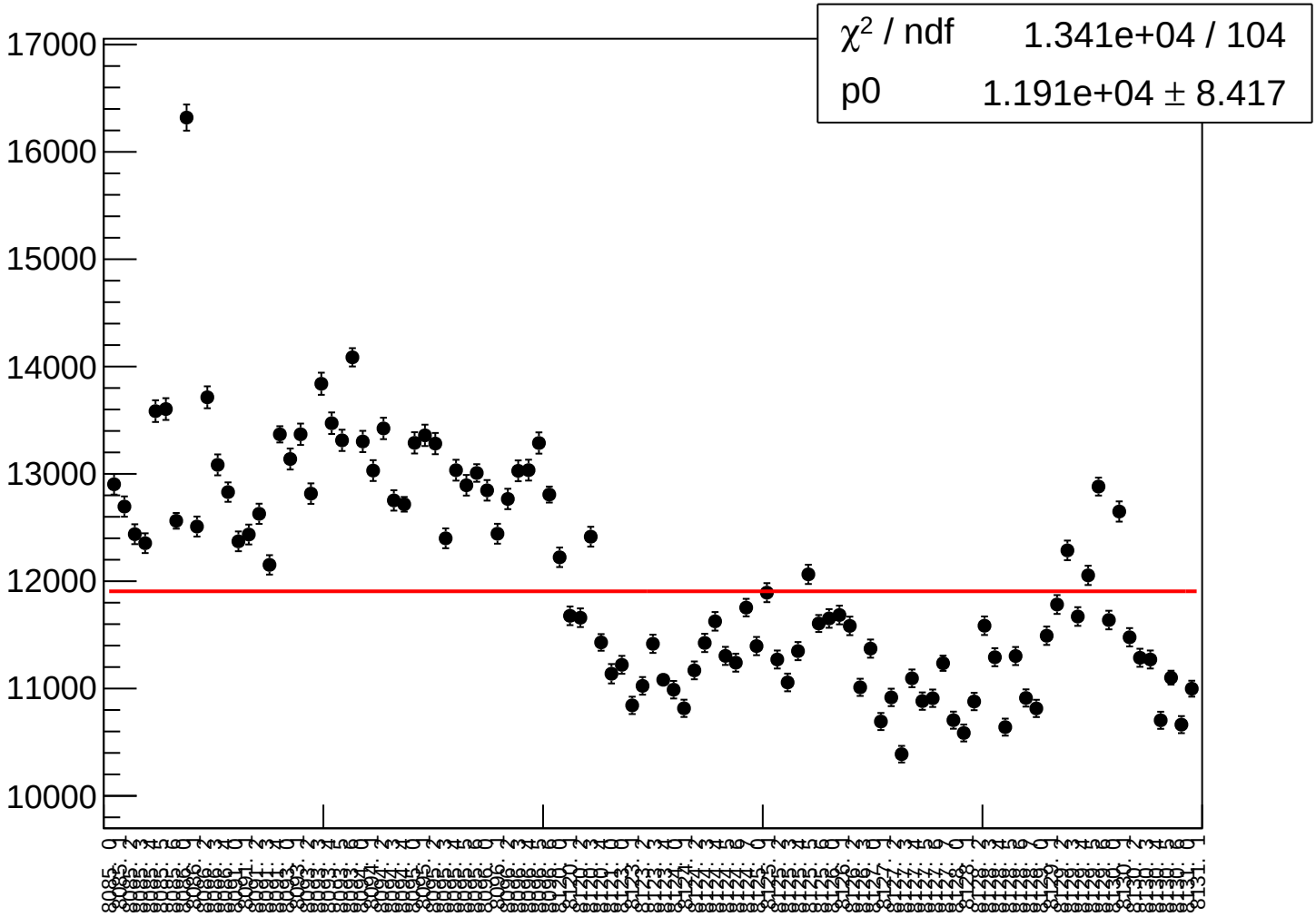

pull1D
Entries 105
Mean 0.01377
Std Dev 0.8775

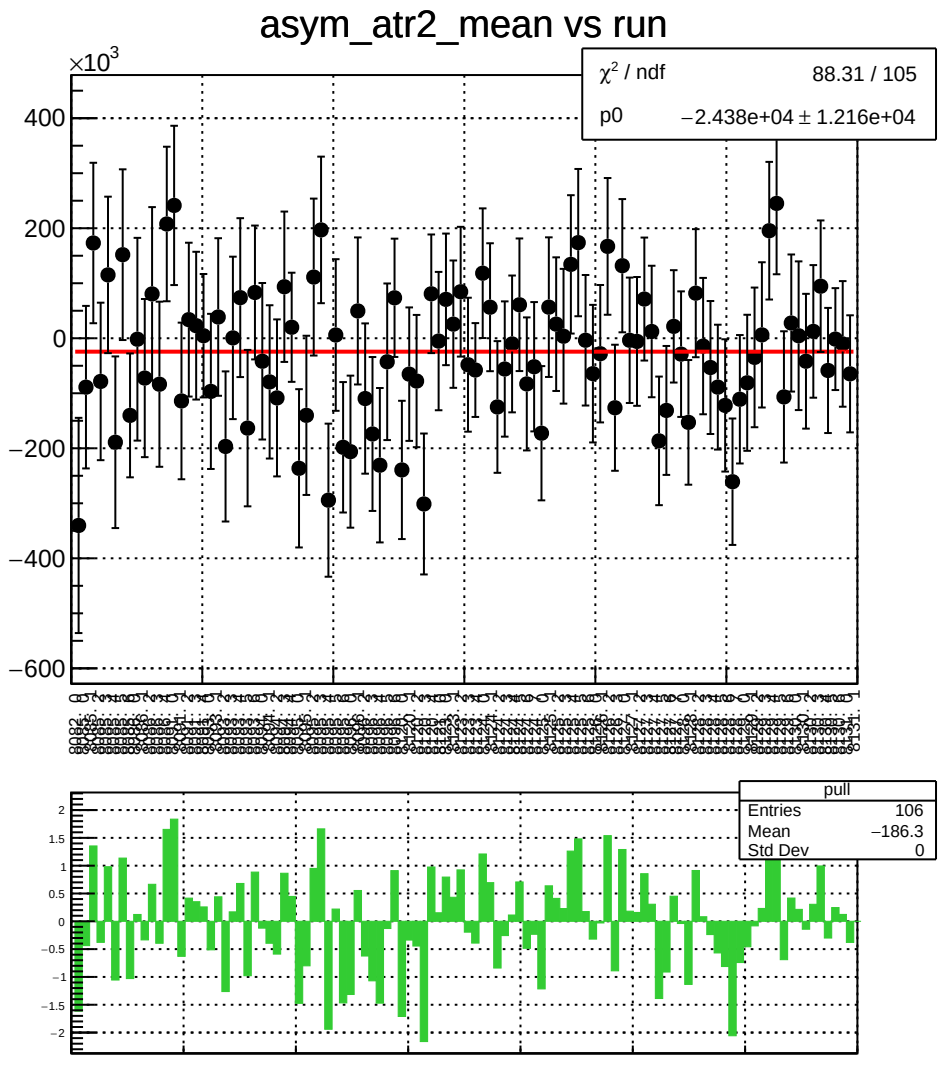

eigen_dit_asym_atr2_rms vs run
χ² / ndf 5680 / 104
p0 2407 ± 1.698
2900
2800
2700
2600
2500
2400
2300

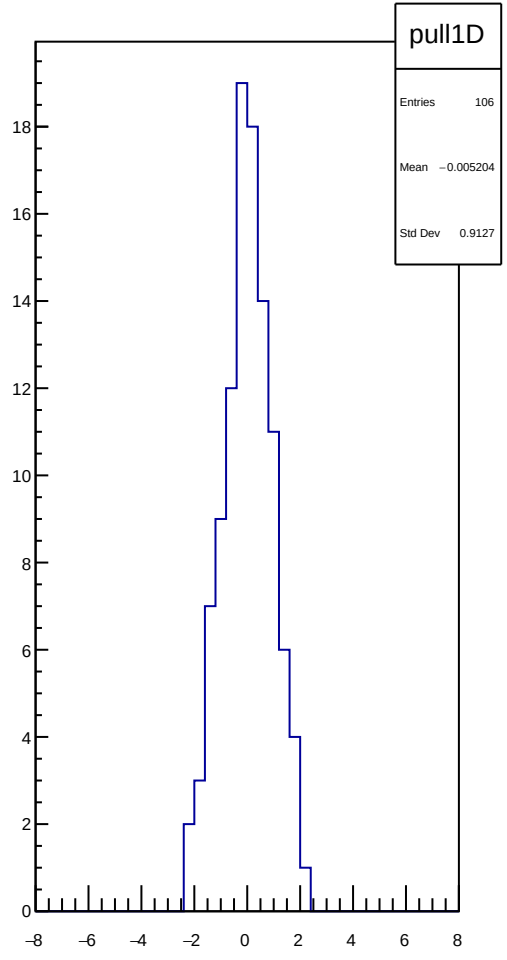

asym_atr2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 85.04 / 104
p0 1.855e+04 ± 1.19e+04
pull
Entries 105
Mean −140
Std Dev 0

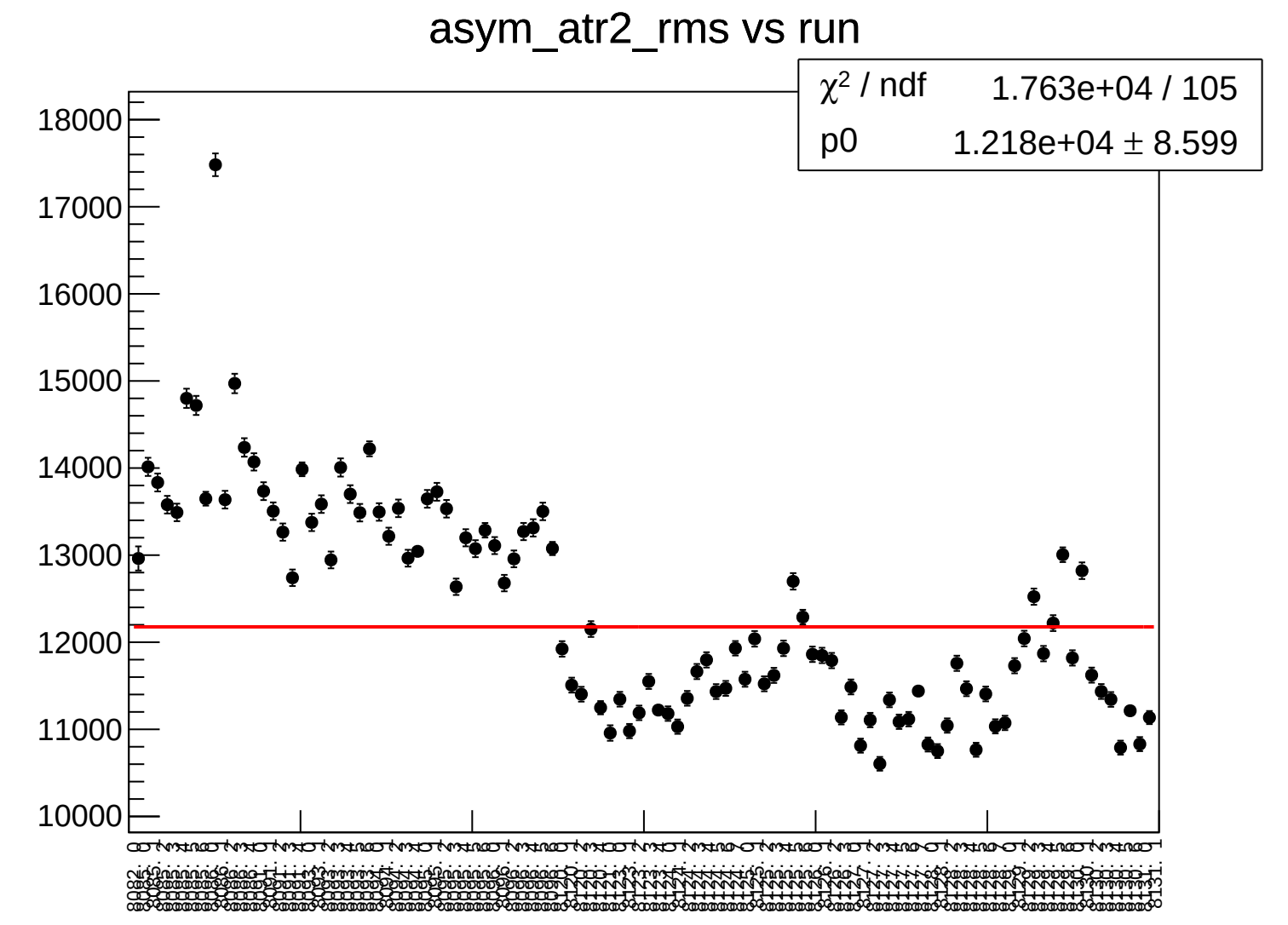

pull1D
Entries 105
Mean 0.00637
Std Dev 0.8999

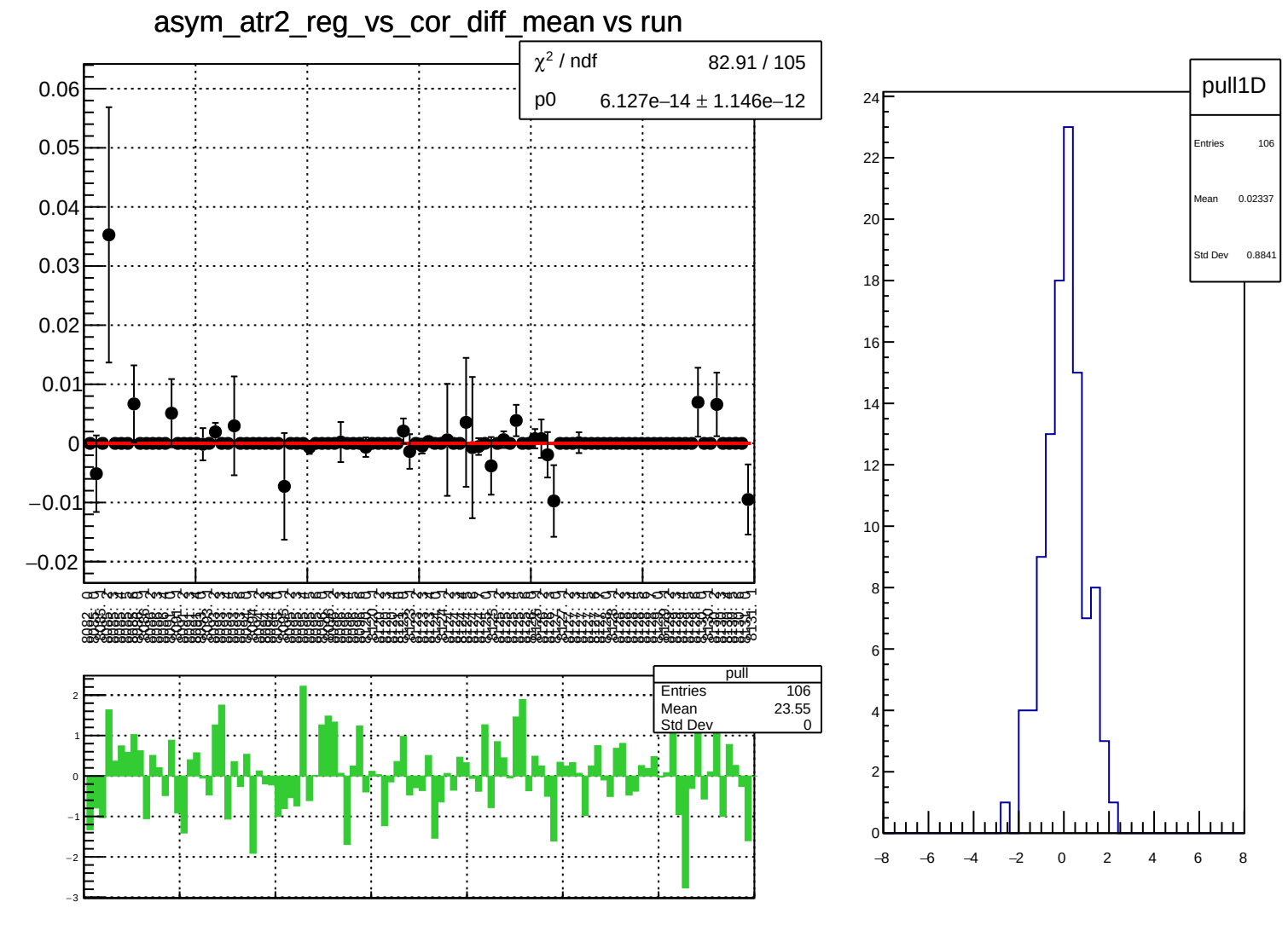
# asym_atr2_eigen_dit_correction_rms vs run

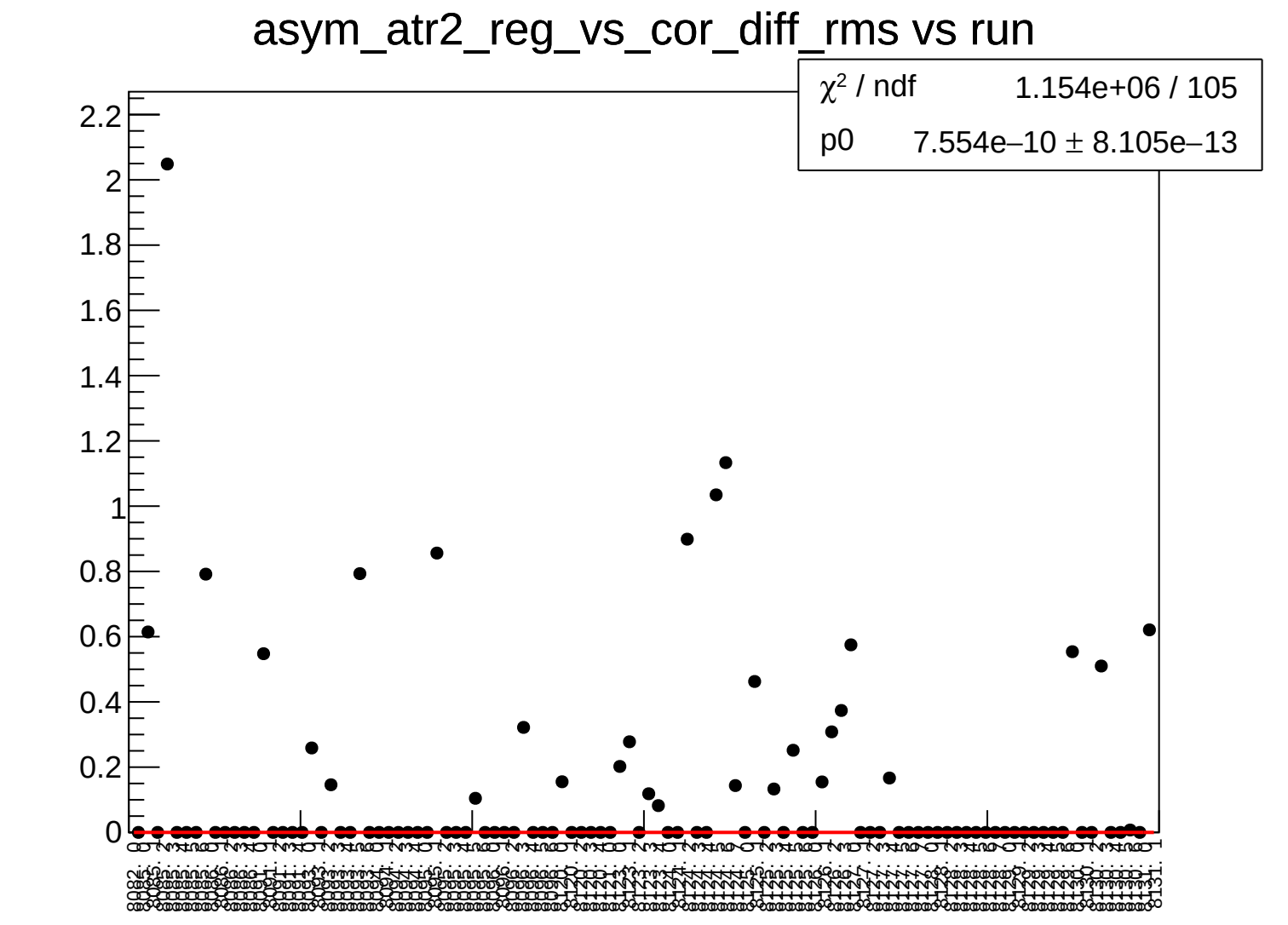


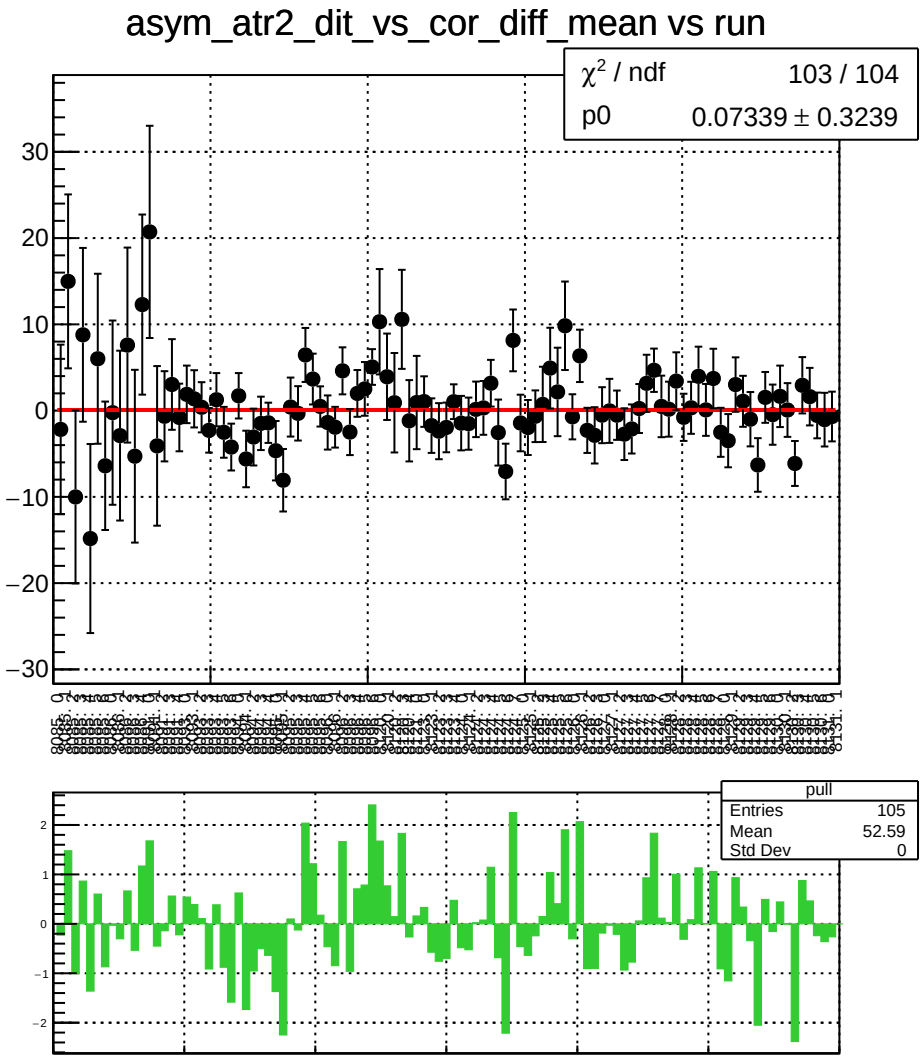

asym_atr2_mean vs run
×10^3
χ² / ndf 88.31 / 105
p0 −2.438e+04 ± 1.216e+04
400
200
0
−200
−400
−600
pull
Entries 106
Mean −186.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

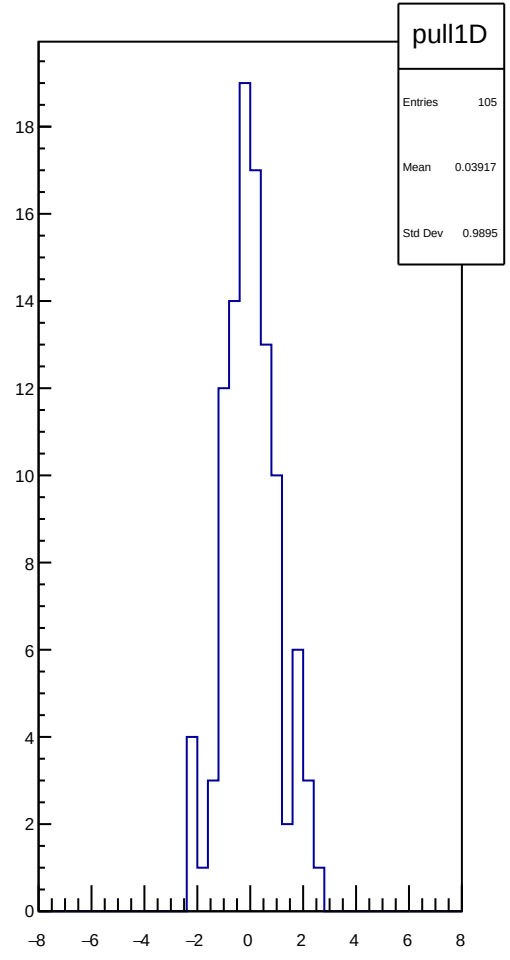

pull1D
Entries 106
Mean −0.005204
Std Dev 0.9127
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

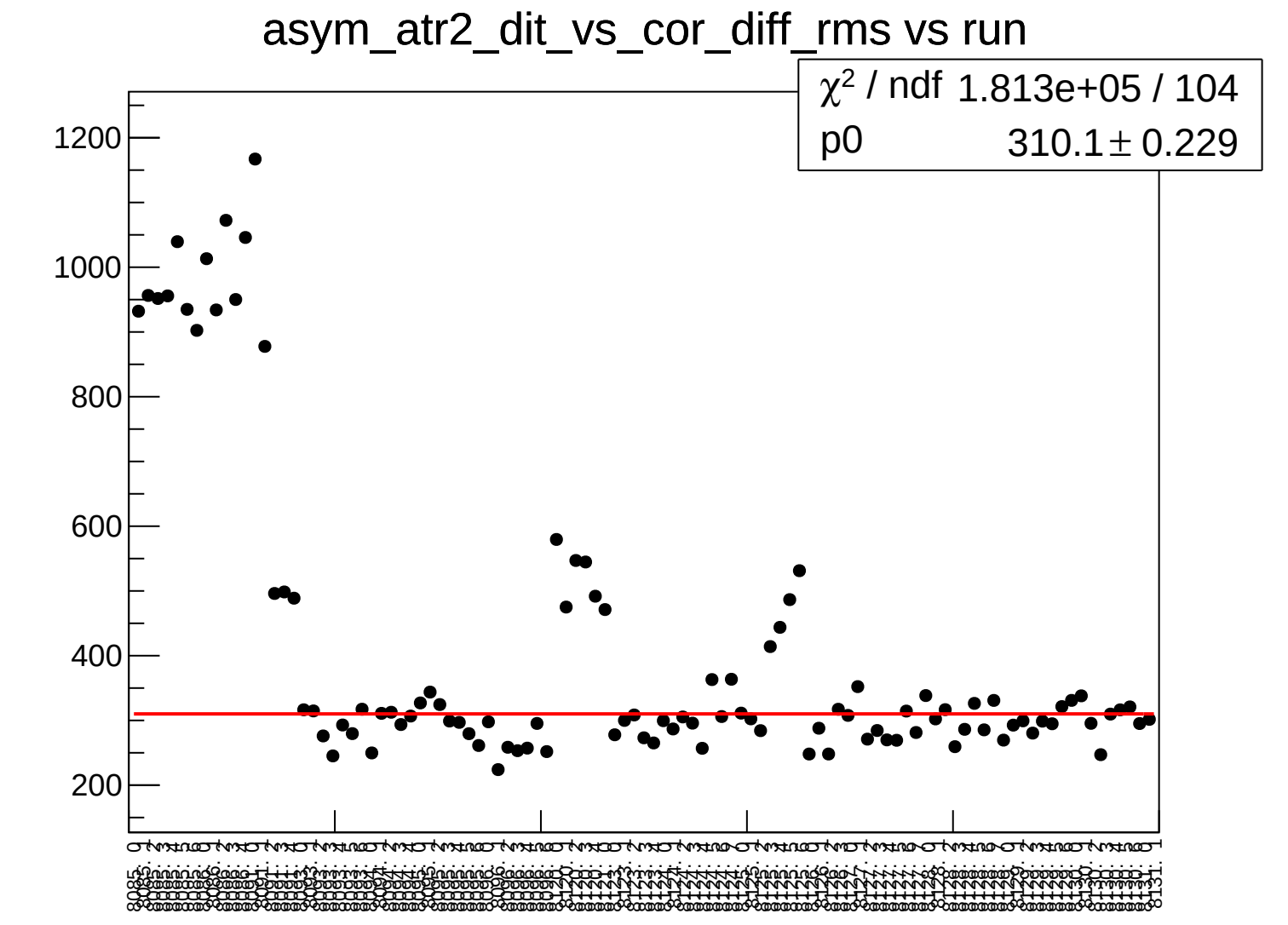

asym_atr2_rms vs run
χ² / ndf 1.763e+04 / 105
p0 1.218e+04 ± 8.599
18000
17000
16000
15000
14000
13000
12000
11000
10000

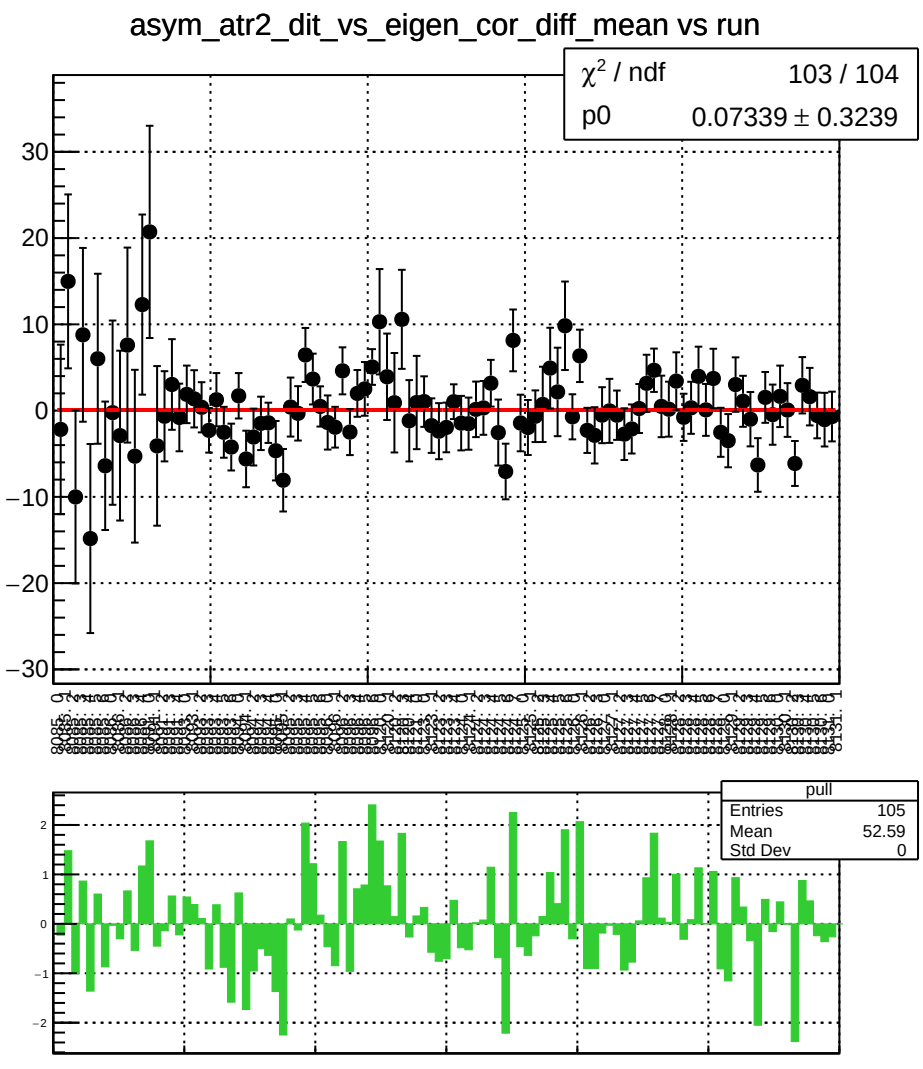

asym_atr2_reg_vs_cor_diff_mean vs run
χ² / ndf 82.91 / 105
p0 6.127e−14 ± 1.146e−12
pull
Entries 106
Mean 23.55
Std Dev 0
pull1D
Entries 106
Mean 0.02337
Std Dev 0.8841

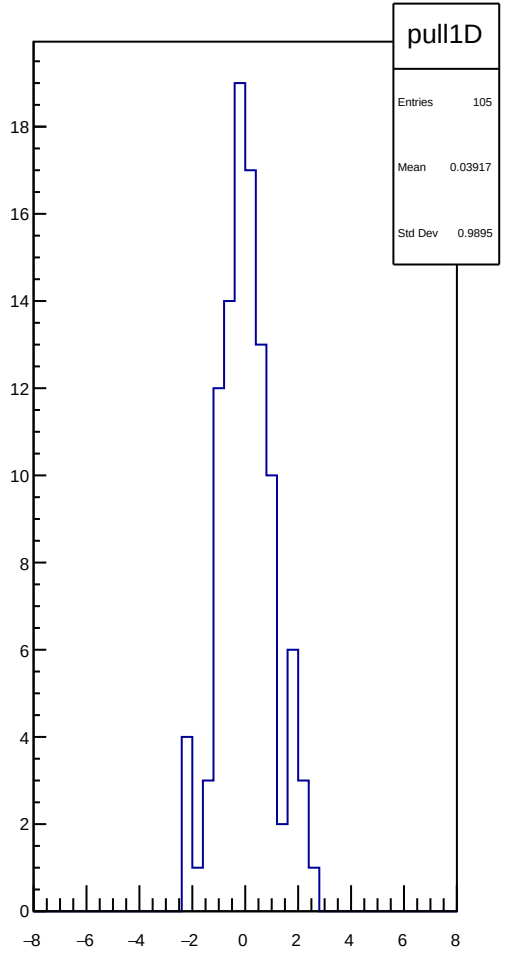

asym_atr2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.154e+06 / 105
p0 7.554e−10 ± 8.105e−13
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

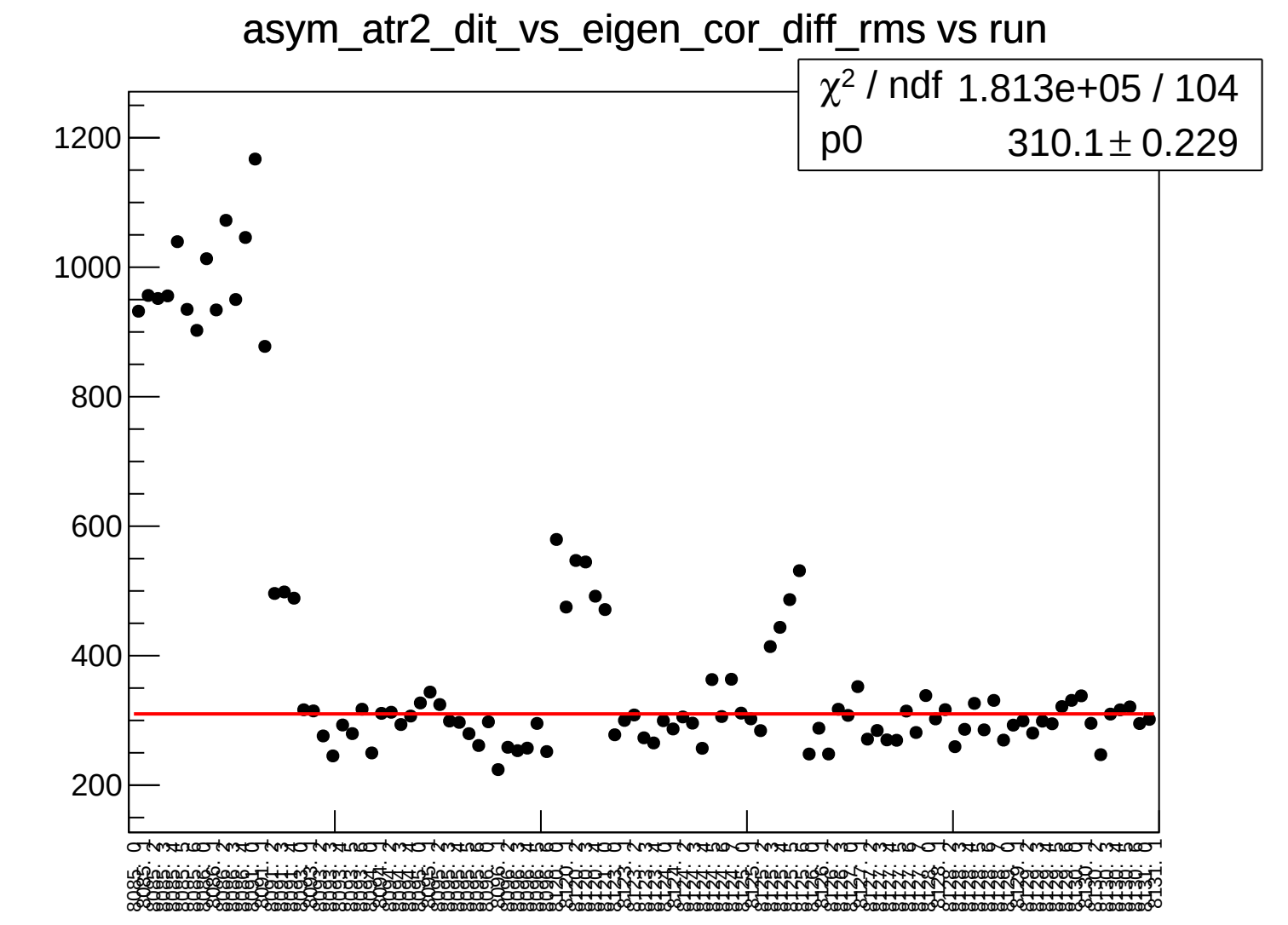

asym_atr2_dit_vs_cor_diff_mean vs run
χ² / ndf 103 / 104
p0 0.07339 ± 0.3239
pull
Entries 105
Mean 52.59
Std Dev 0

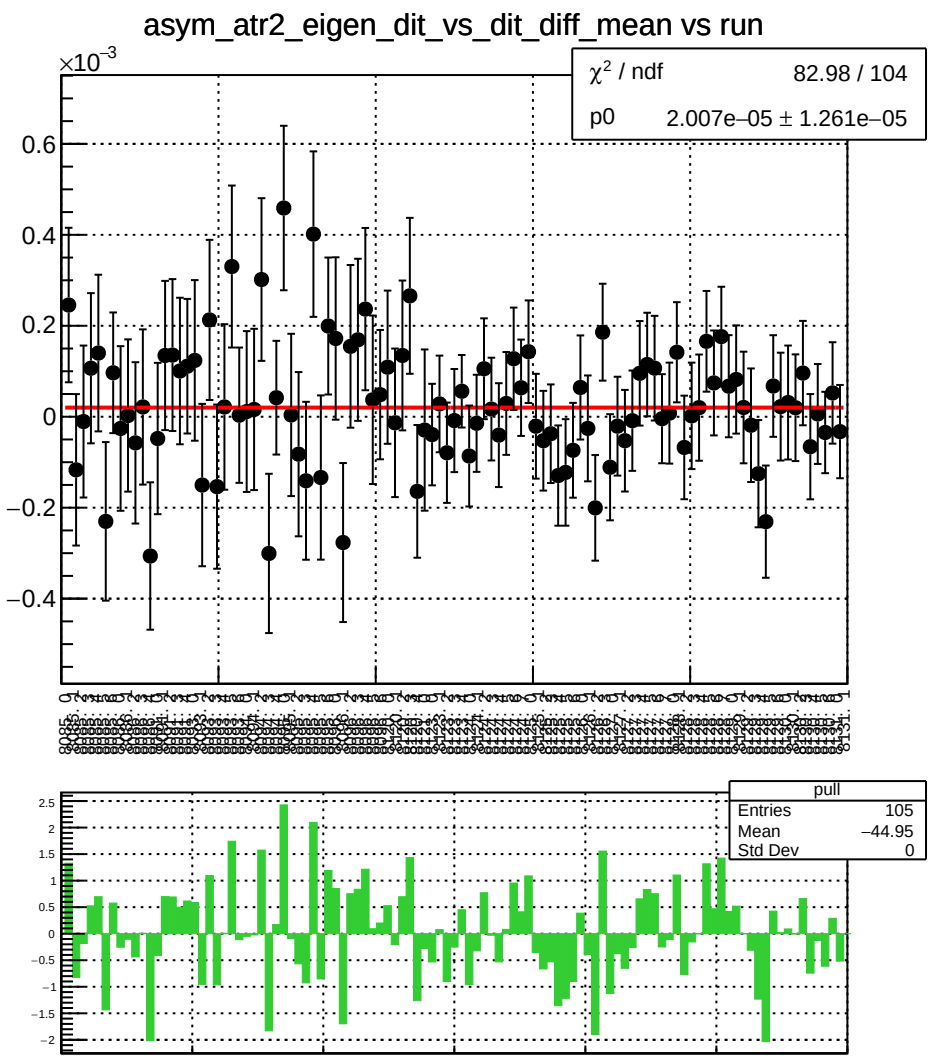

pull1D
Entries 105
Mean 0.03917
Std Dev 0.9895

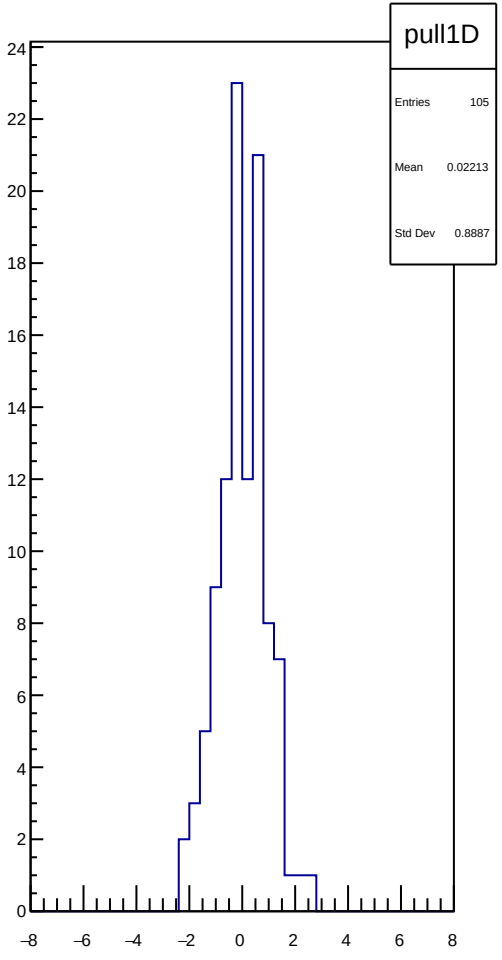

asym_atr2_dit_vs_cor_diff_rms vs run
χ² / ndf 1.813e+05 / 104
p0 310.1 ± 0.229
1200
1000
800
600
400
200

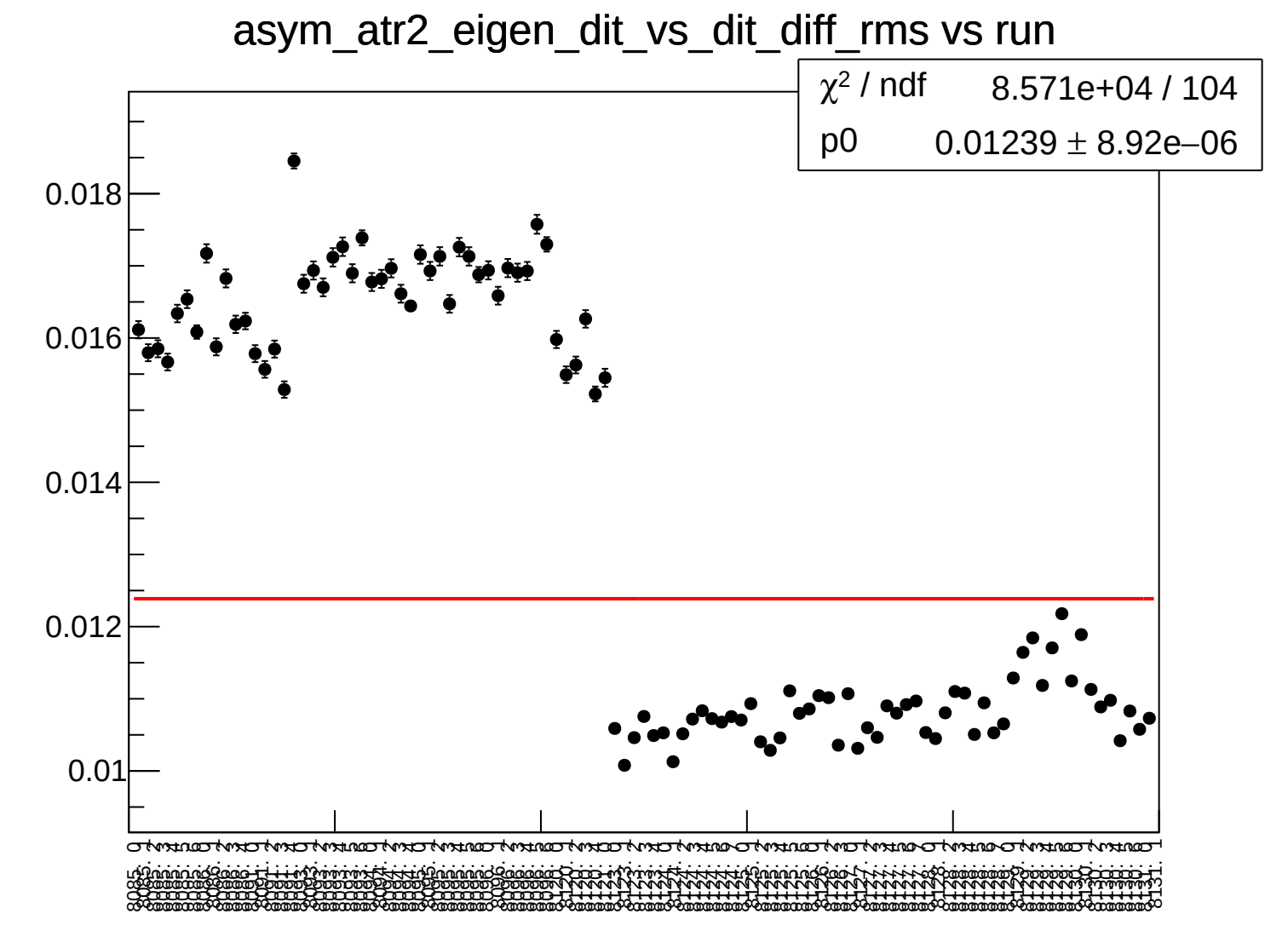

asym_atr2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103 / 104
p0 0.07339 ± 0.3239
30
20
10
0
−10
−20
−30
pull
Entries 105
Mean 52.59
Std Dev 0
2
1
0
−1
−2

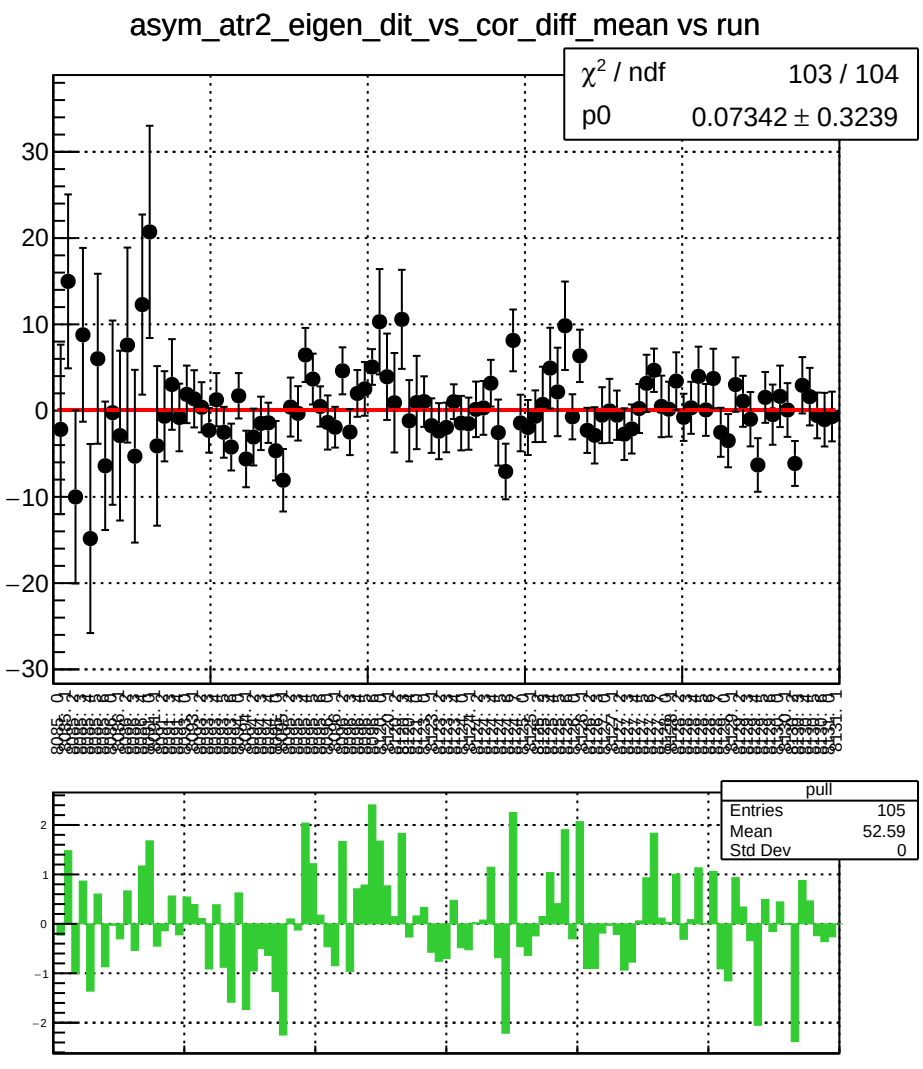

pull1D
Entries 105
Mean 0.03917
Std Dev 0.9895
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

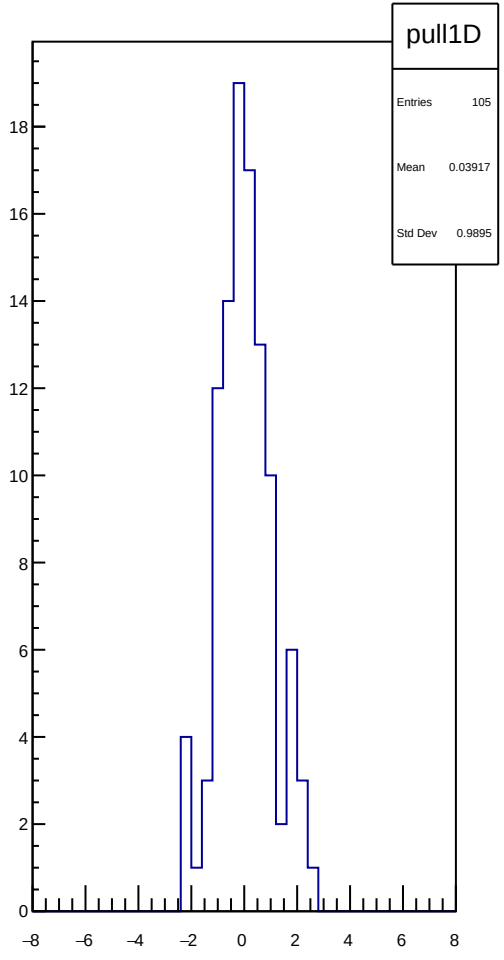

asym_atr2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.813e+05 / 104
p0 310.1 ± 0.229
1200
1000
800
600
400
200

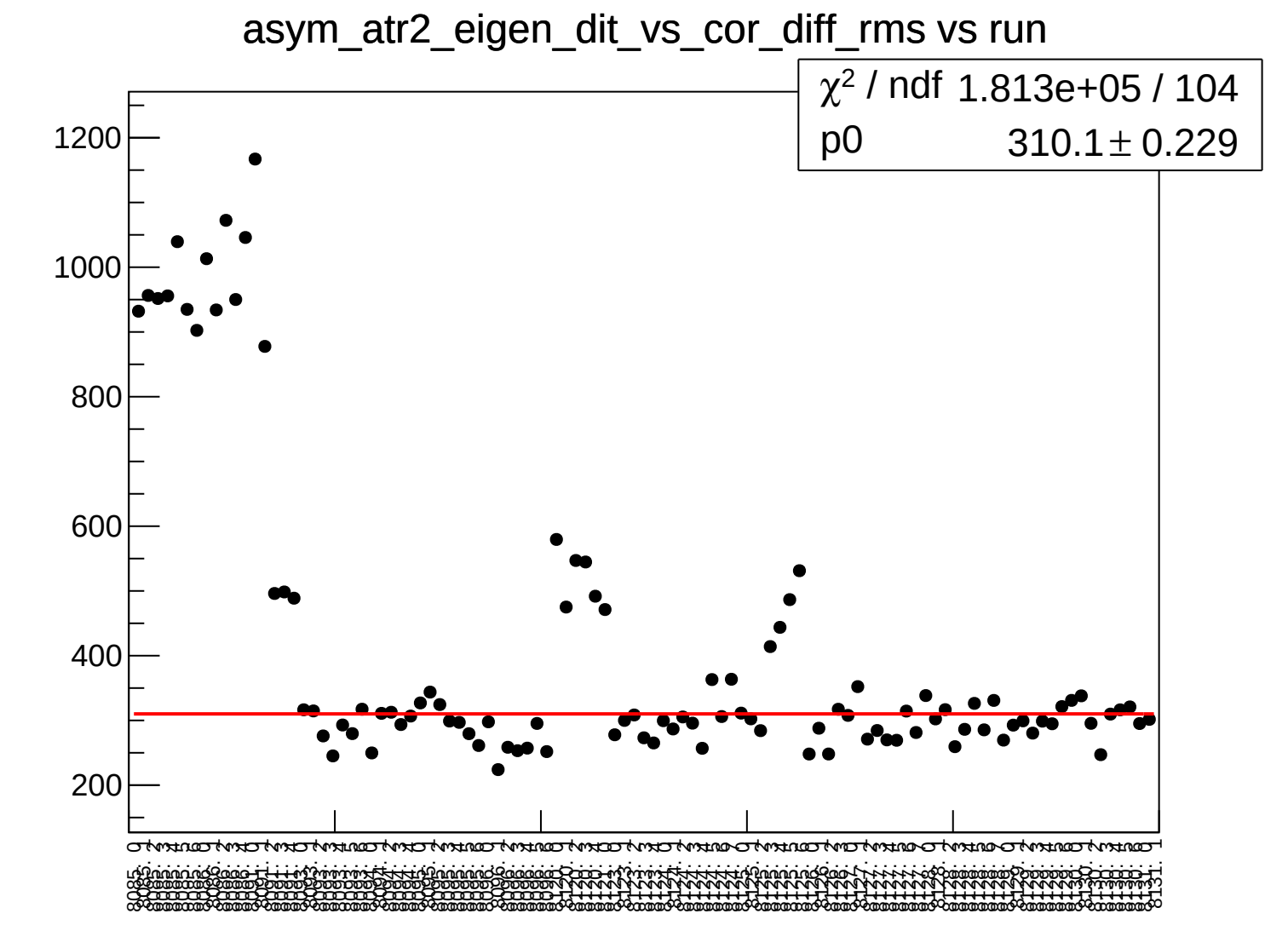

asym_atr2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 82.98 / 104
p0 2.007e−05 ± 1.261e−05
0.6
0.4
0.2
0
−0.2
−0.4
pull
Entries 105
Mean −44.95
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

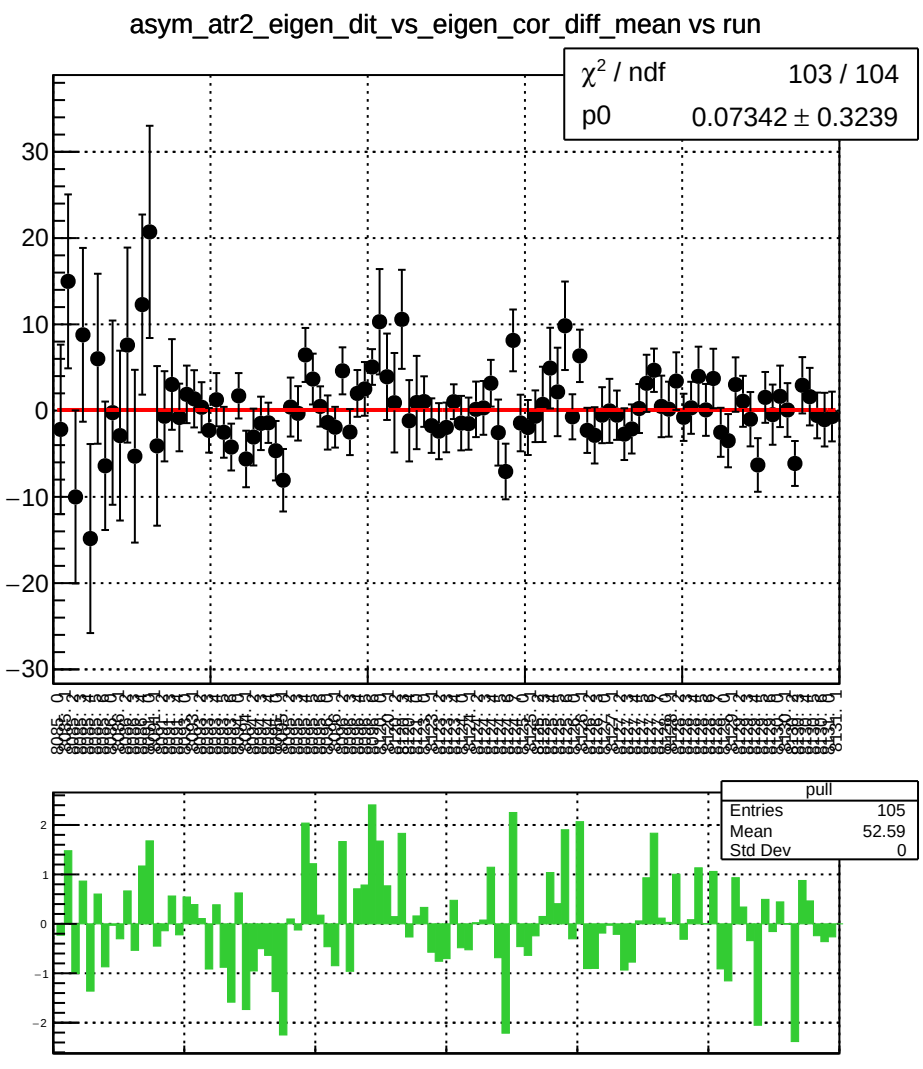

pull1D
Entries 105
Mean 0.02213
Std Dev 0.8887
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

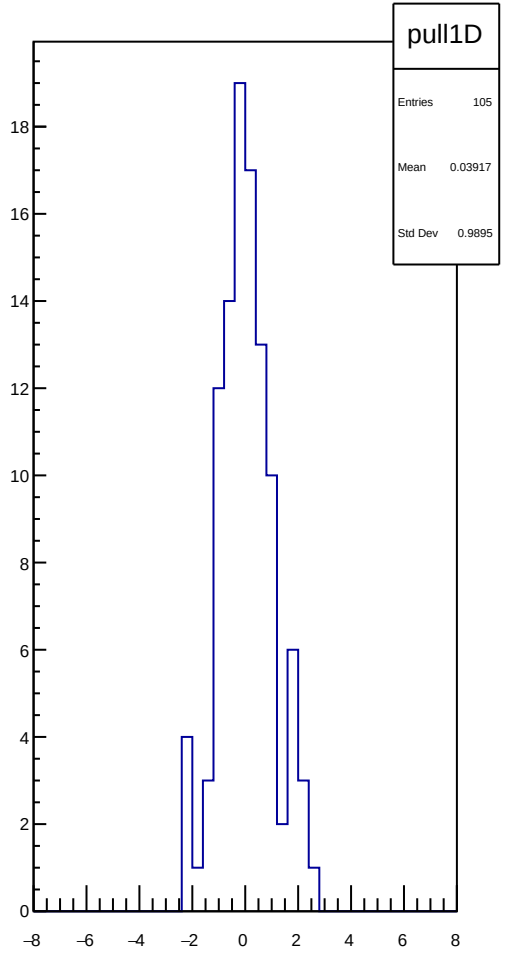

asym_atr2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.571e+04 / 104
p0 0.01239 ± 8.92e−06
0.018
0.016
0.014
0.012
0.01

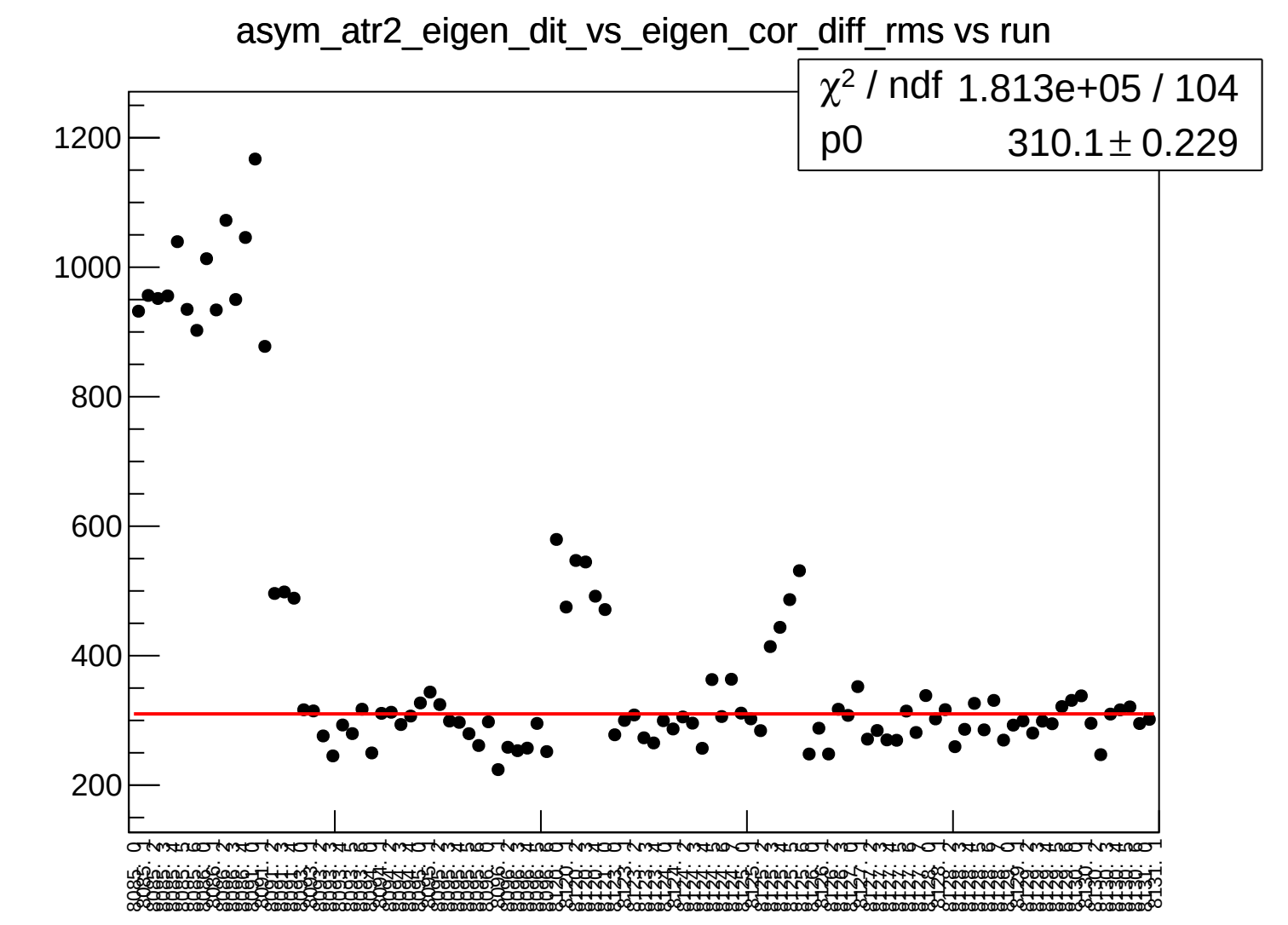

asym_atr2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 103 / 104
p0 0.07342 ± 0.3239
30
20
10
0
−10
−20
−30
pull
Entries 105
Mean 52.59
Std Dev 0
2
1
0
−1
−2

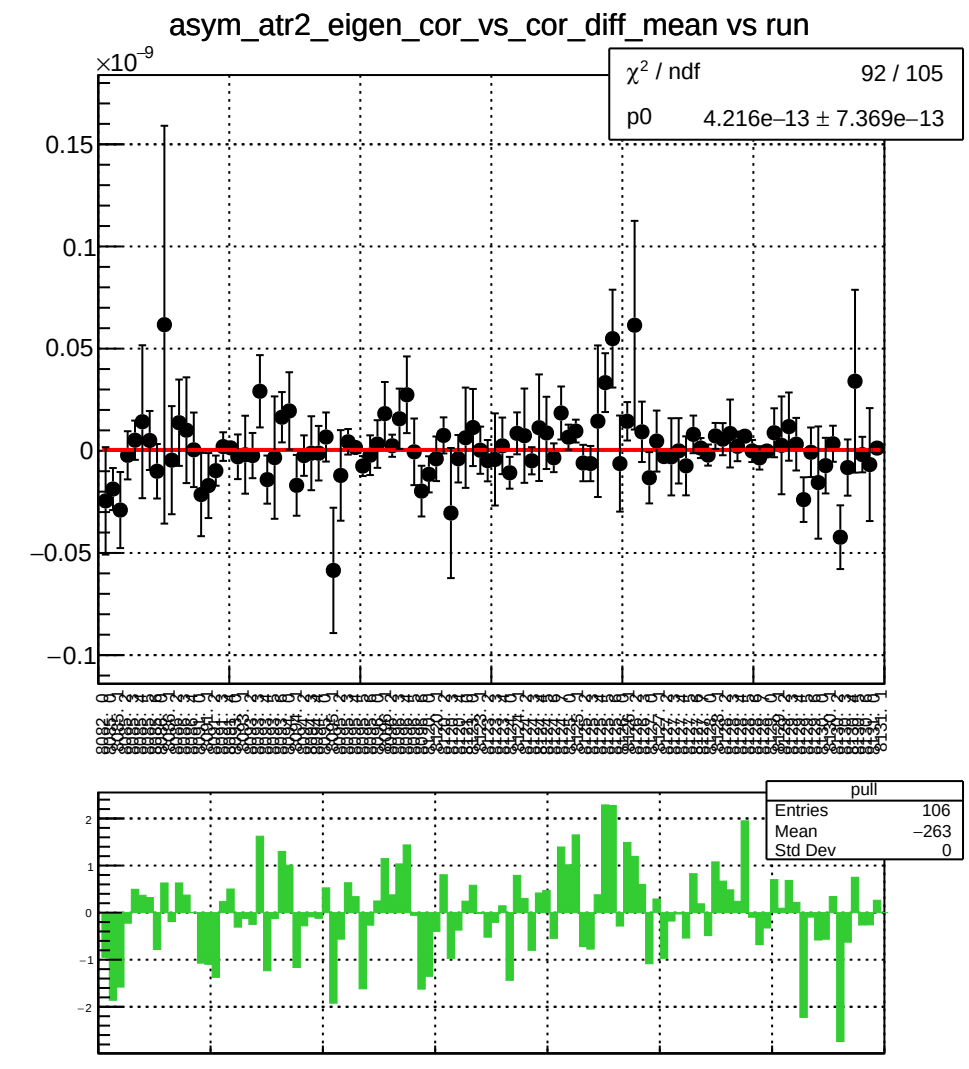

pull1D
Entries 105
Mean 0.03917
Std Dev 0.9895
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

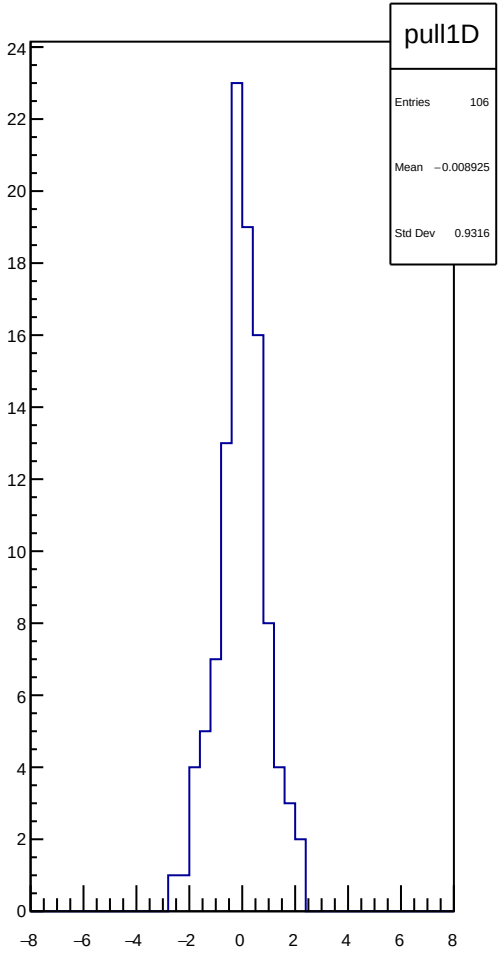

asym_atr2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.813e+05 / 104
p0 310.1 ± 0.229
1200
1000
800
600
400
200

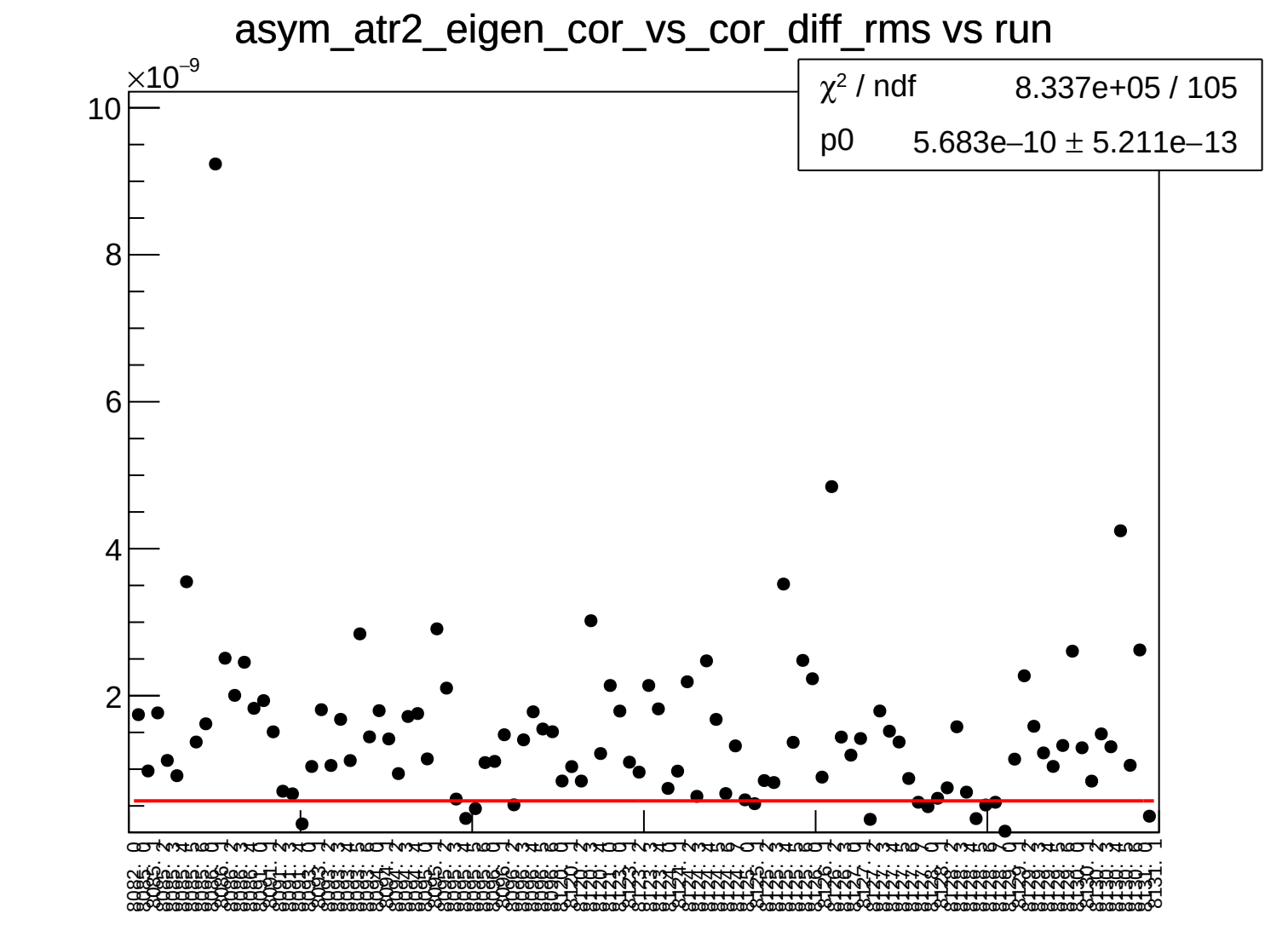

asym_atr2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103 / 104
p0 0.07342 ± 0.3239
30
20
10
0
−10
−20
−30
pull
Entries 105
Mean 52.59
Std Dev 0
2
1
0
−1
−2

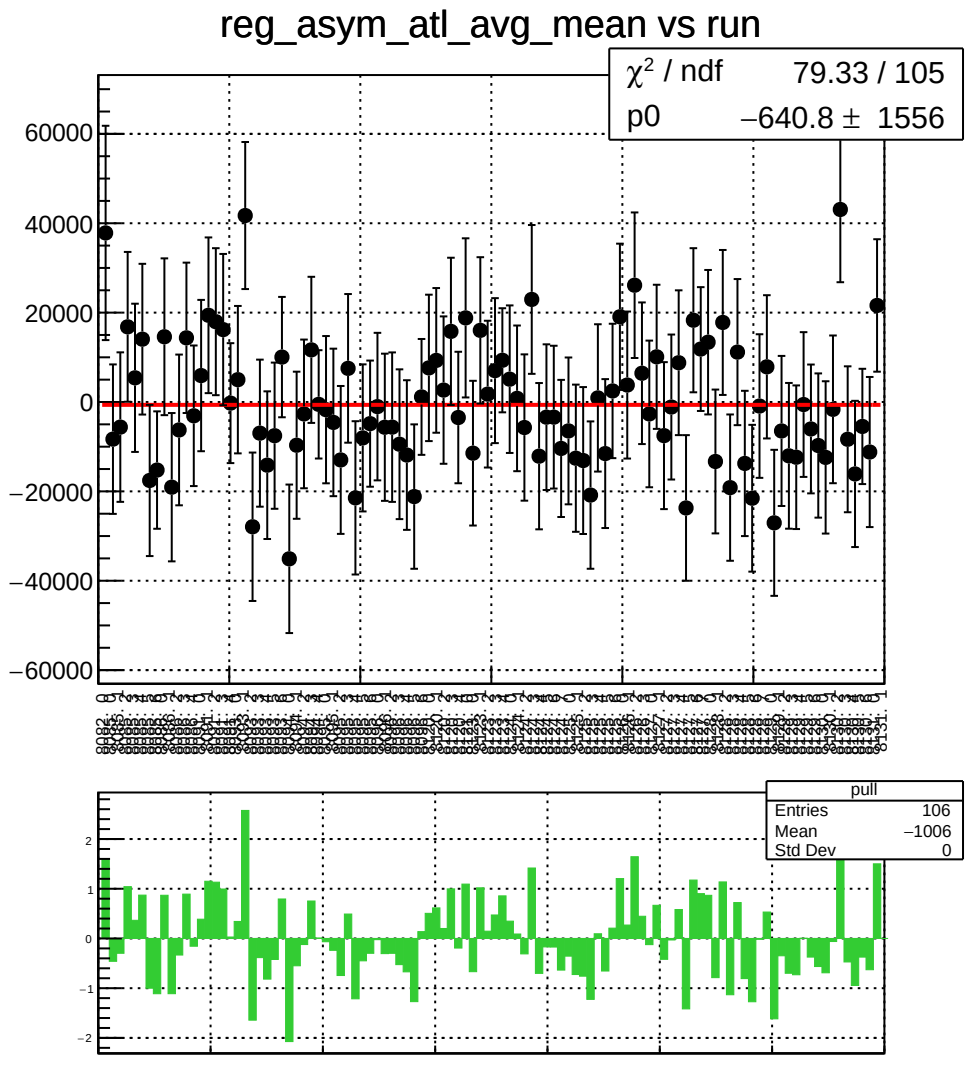

pull1D
Entries 105
Mean 0.03917
Std Dev 0.9895
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

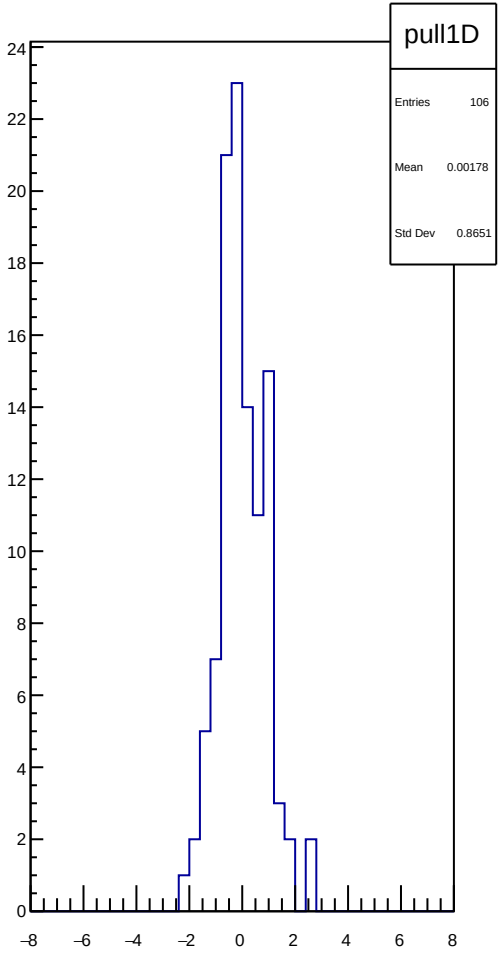

asym_atr2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.813e+05 / 104
p0 310.1 ± 0.229
1200
1000
800
600
400
200

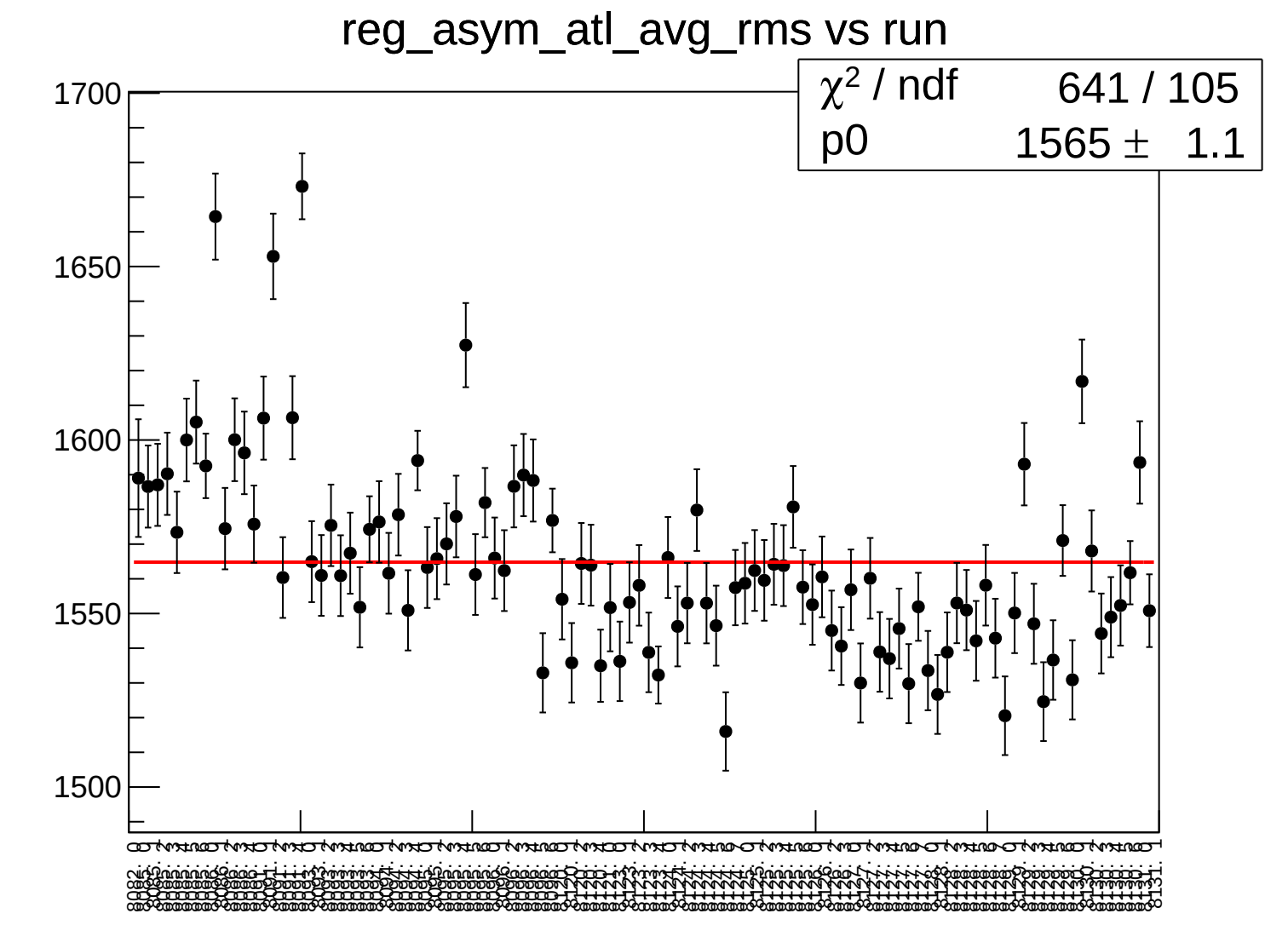

asym_atr2_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 92 / 105
p0 4.216e−13 ± 7.369e−13
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 106
Mean −263
Std Dev 0
2
1
0
−1
−2

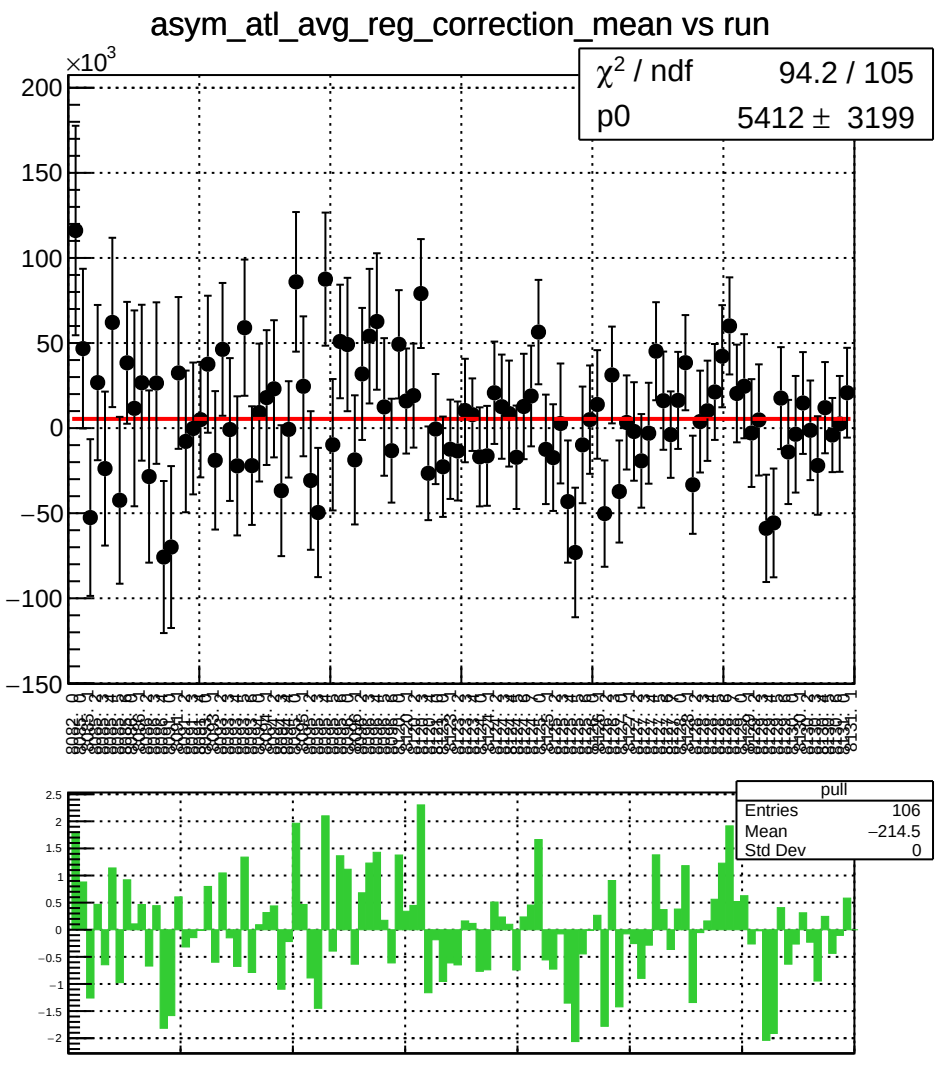

pull1D
Entries 106
Mean −0.008925
Std Dev 0.9316
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

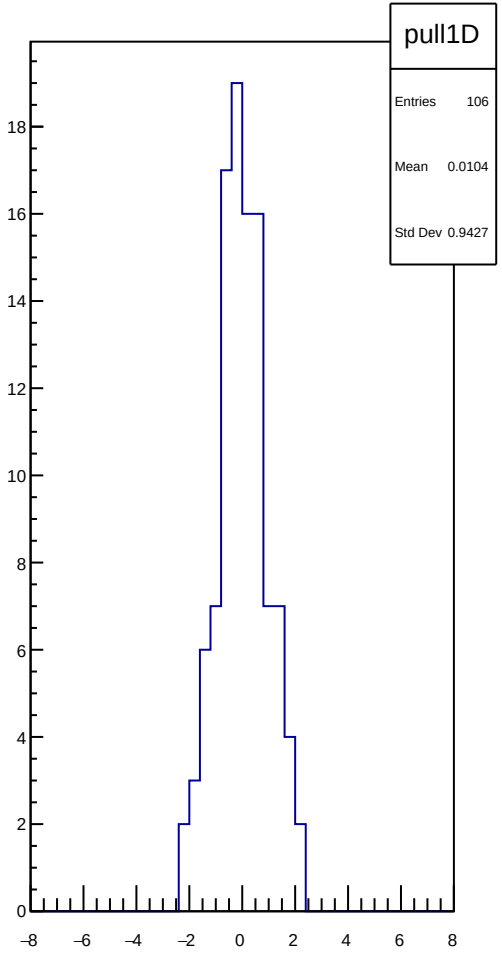

asym_atr2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
10
8
6
4
2
χ² / ndf 8.337e+05 / 105
p0 5.683e−10 ± 5.211e−13

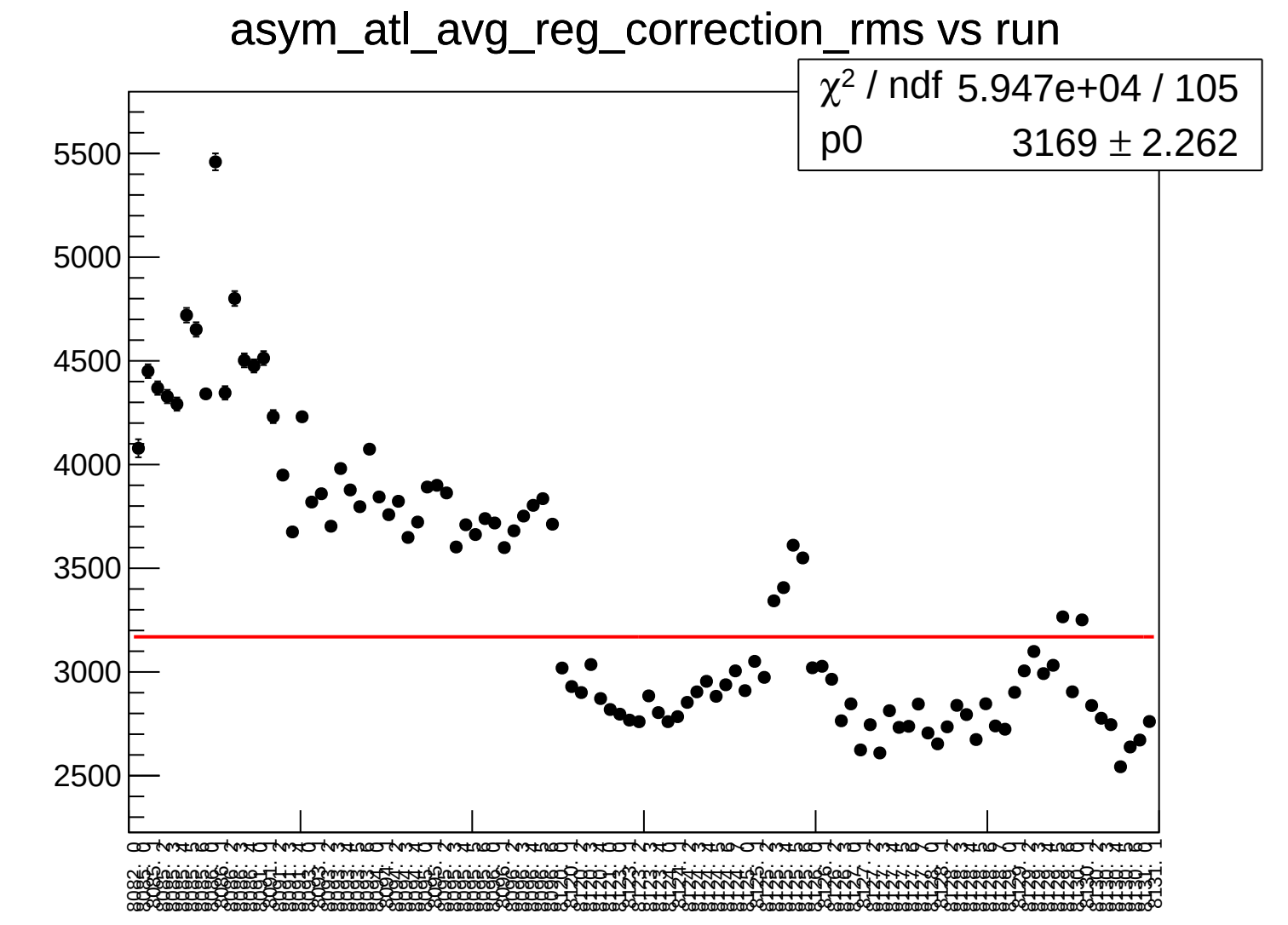

reg_asym_atl_avg_mean vs run
χ² / ndf 79.33 / 105
p0 −640.8 ± 1556
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean −1006
Std Dev 0
2
1
0
−1
−2

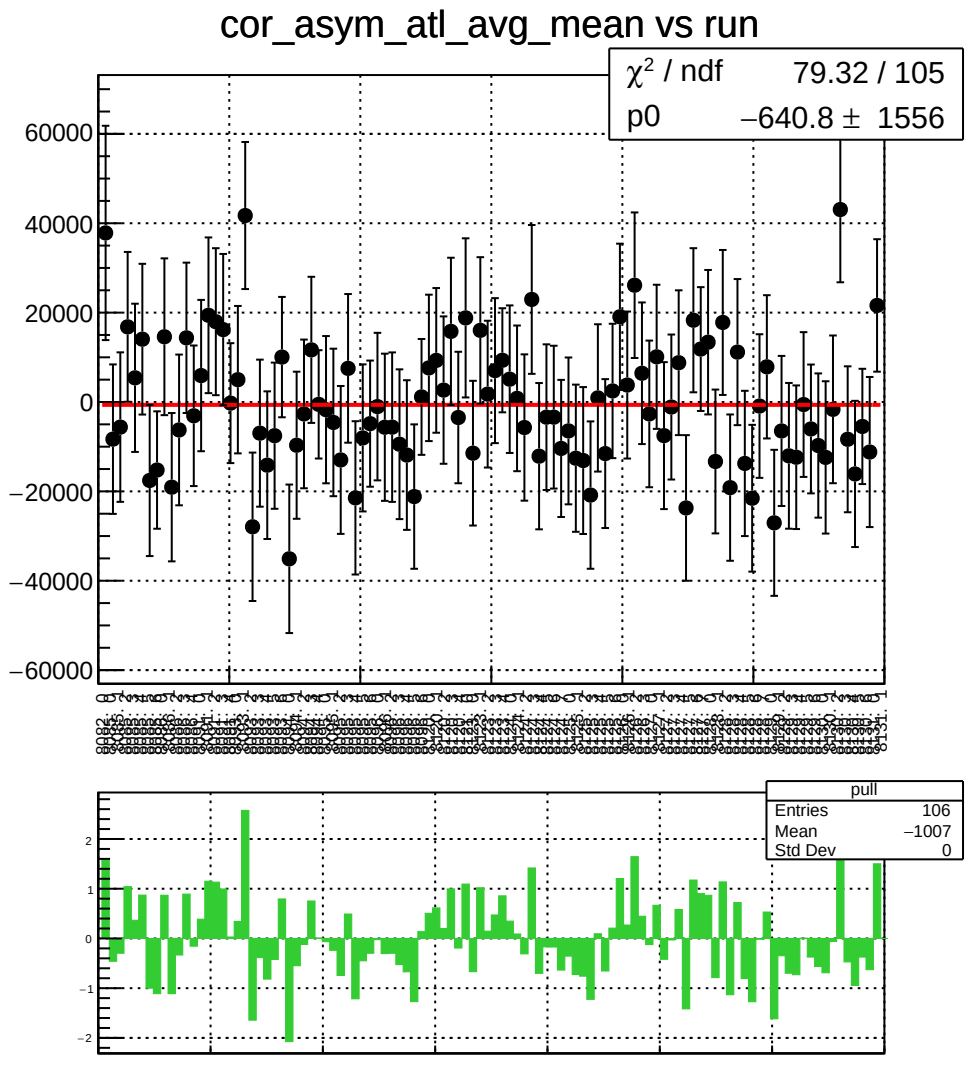

pull1D
Entries 106
Mean 0.00178
Std Dev 0.8651
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

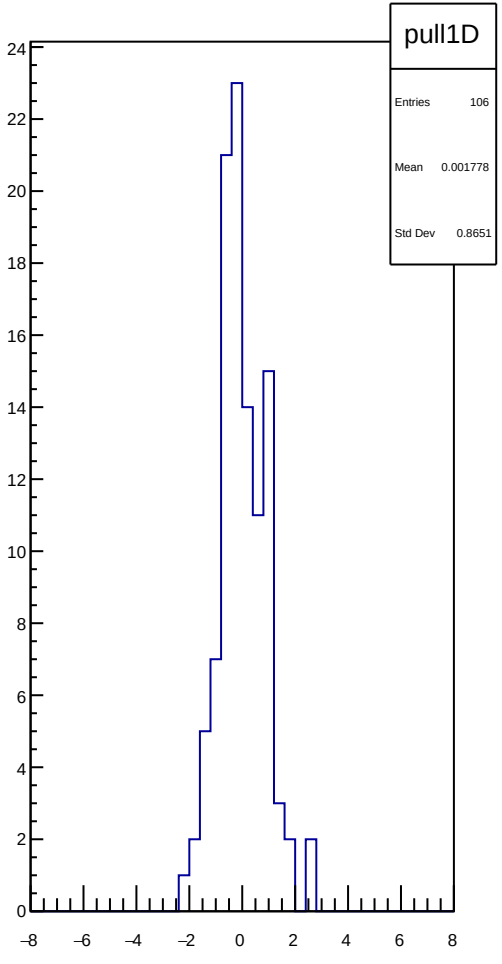

reg_asym_atl_avg_rms vs run
χ² / ndf 641 / 105
p0 1565 ± 1.1
1700
1650
1600
1550
1500

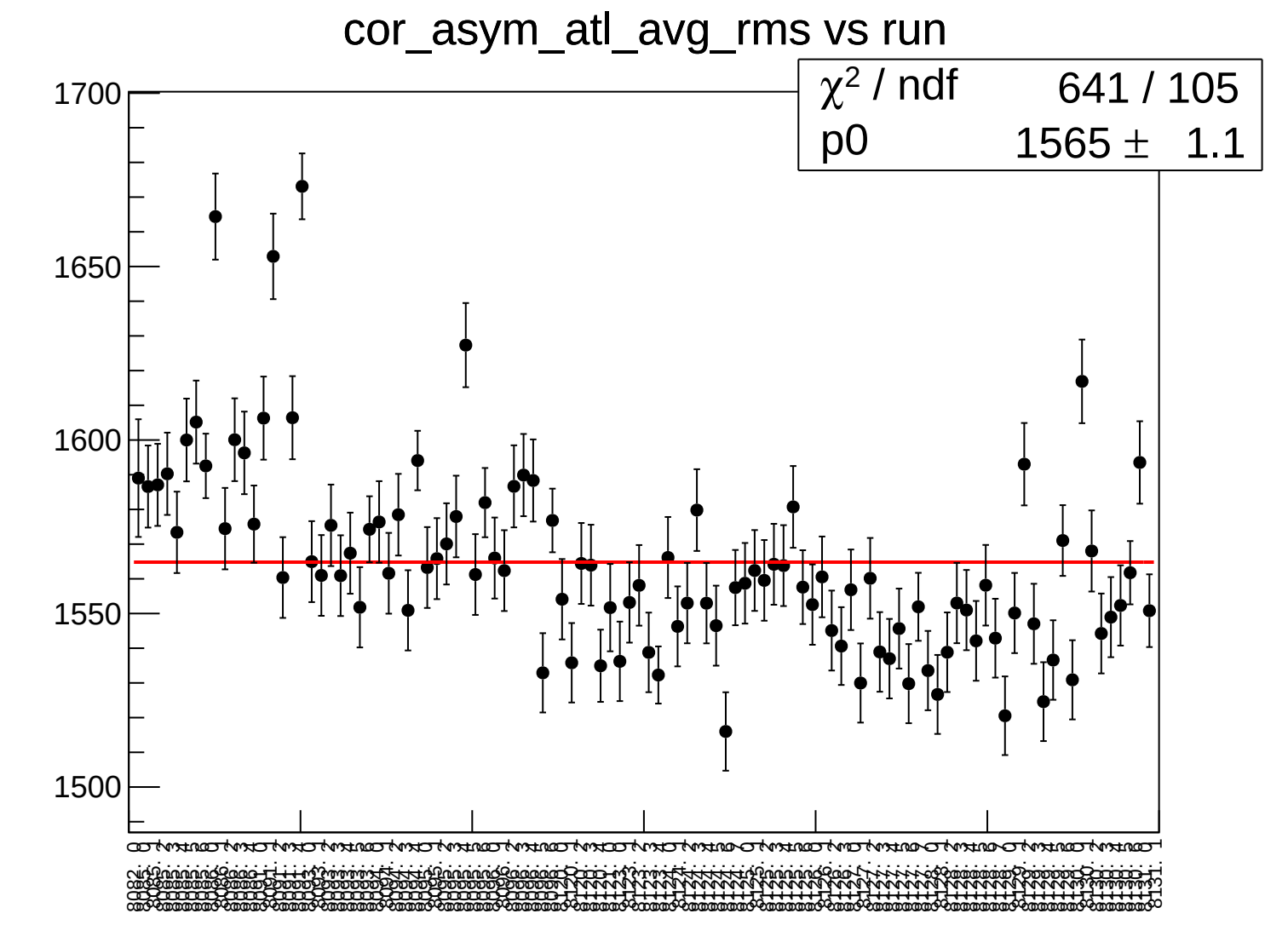

asym_atl_avg_reg_correction_mean vs run
×10^3
χ² / ndf 94.2 / 105
p0 5412 ± 3199
pull
Entries 106
Mean −214.5
Std Dev 0

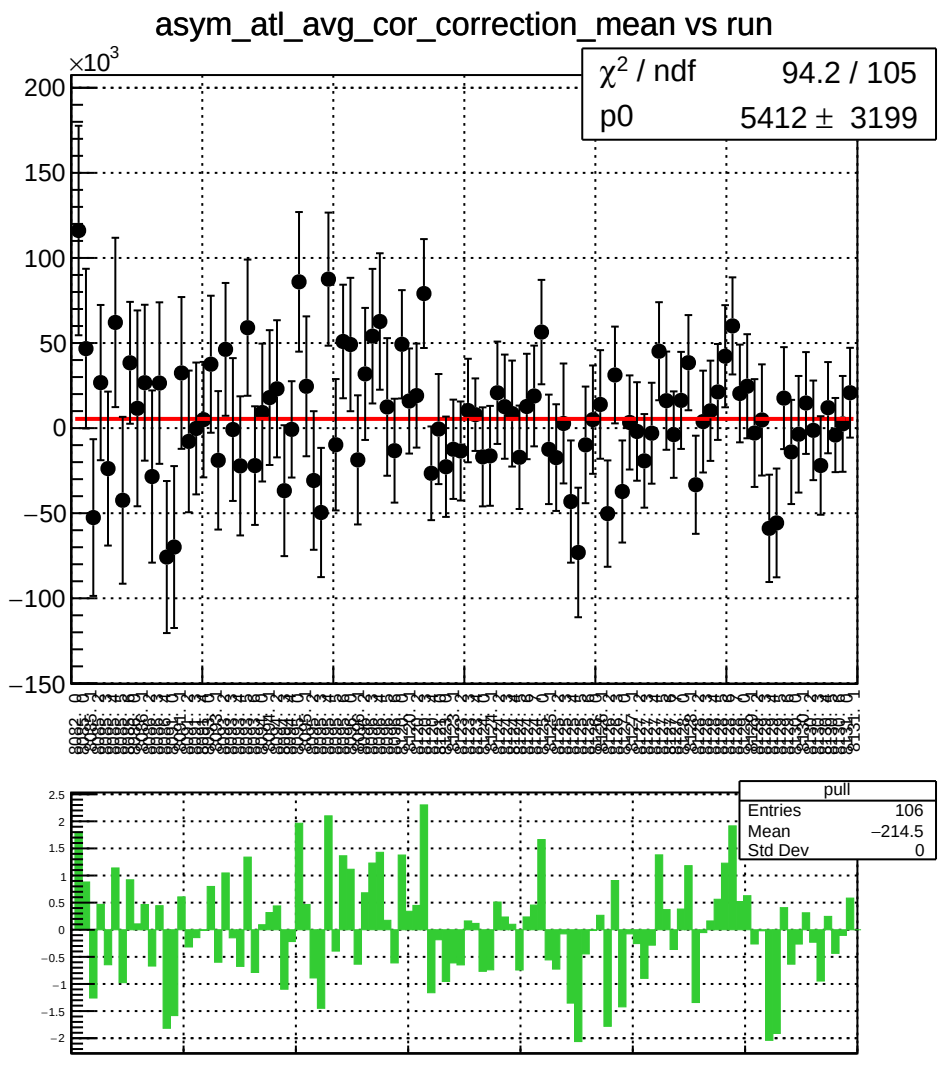

pull1D
Entries 106
Mean 0.0104
Std Dev 0.9427

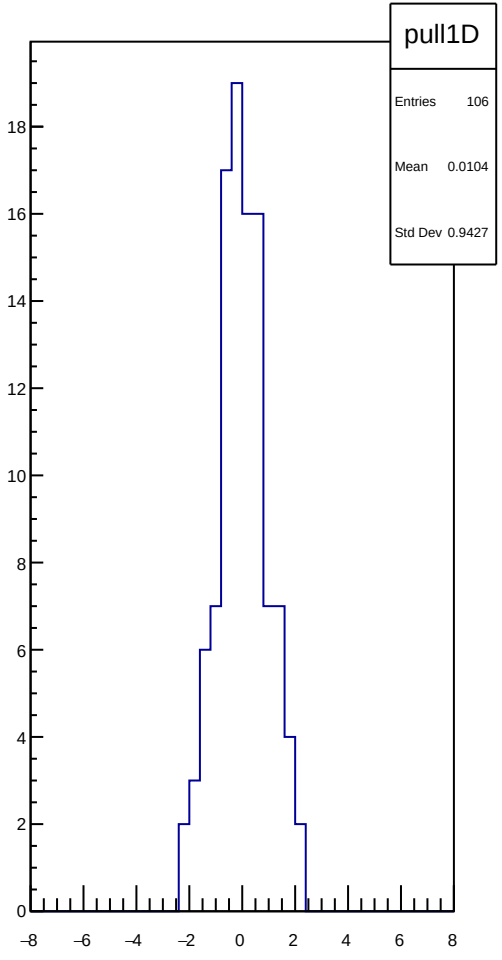

asym_atl_avg_reg_correction_rms vs run
χ² / ndf 5.947e+04 / 105
p0 3169 ± 2.262
5500
5000
4500
4000
3500
3000
2500

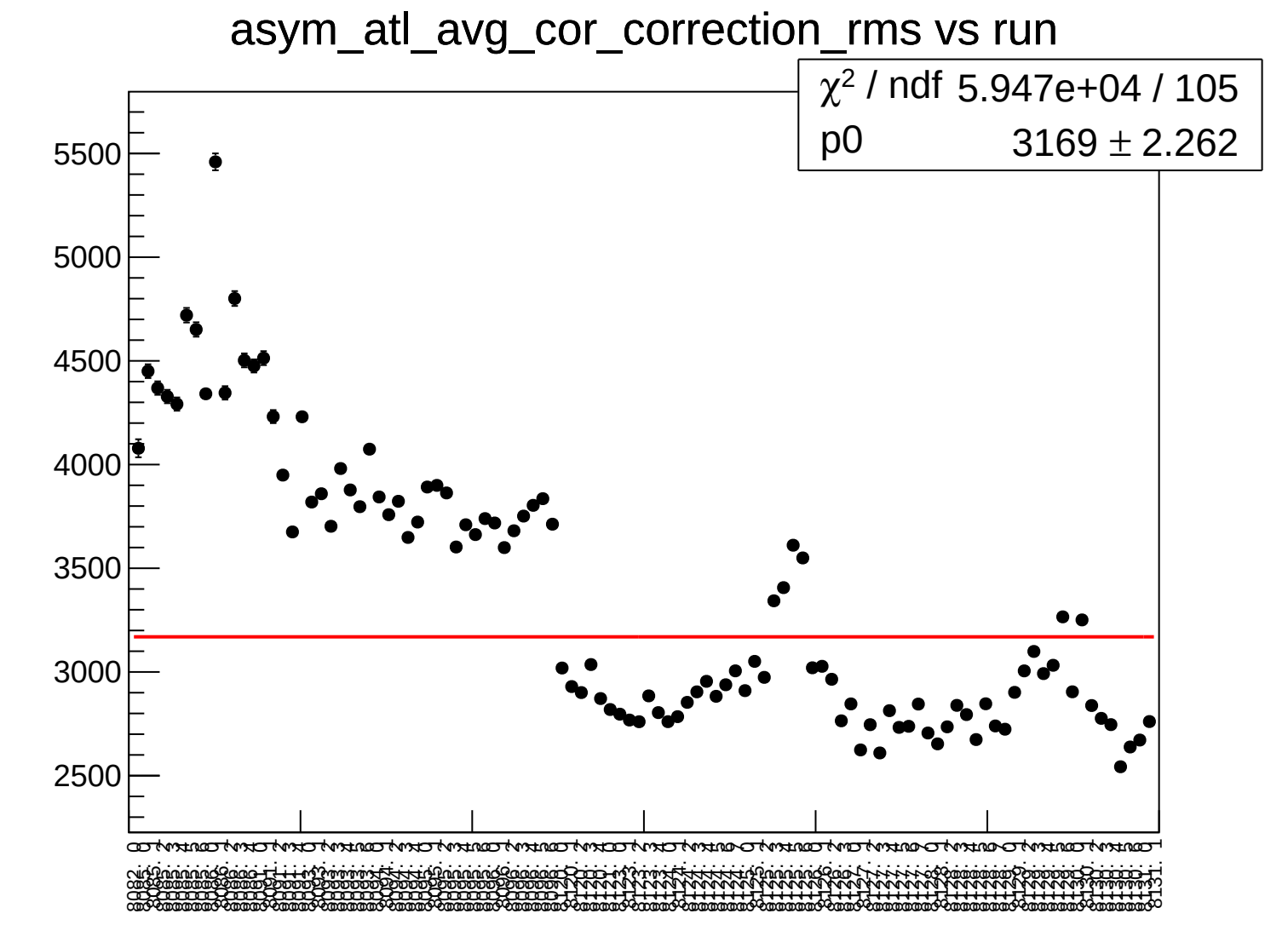

cor_asym_atl_avg_mean vs run
χ² / ndf 79.32 / 105
p0 −640.8 ± 1556
pull
Entries 106
Mean −1007
Std Dev 0

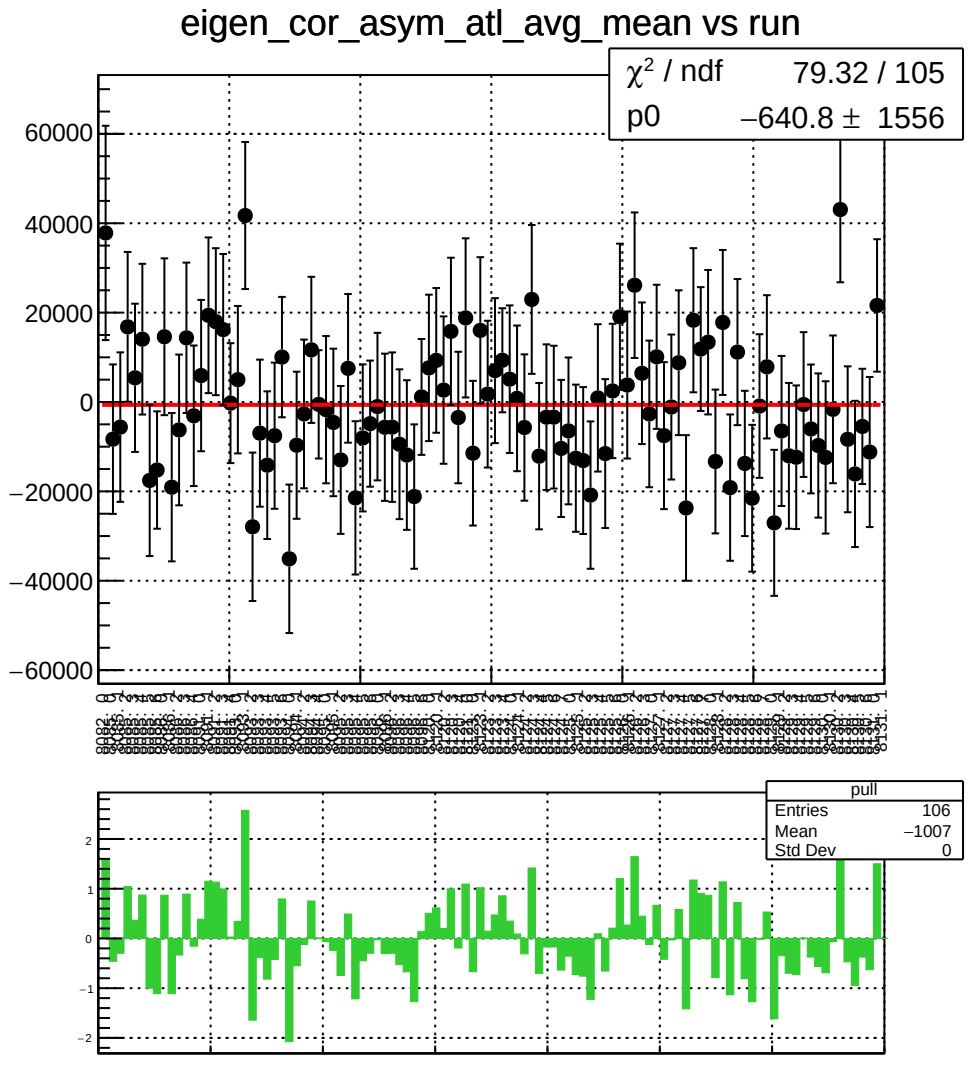

pull1D
Entries 106
Mean 0.001778
Std Dev 0.8651

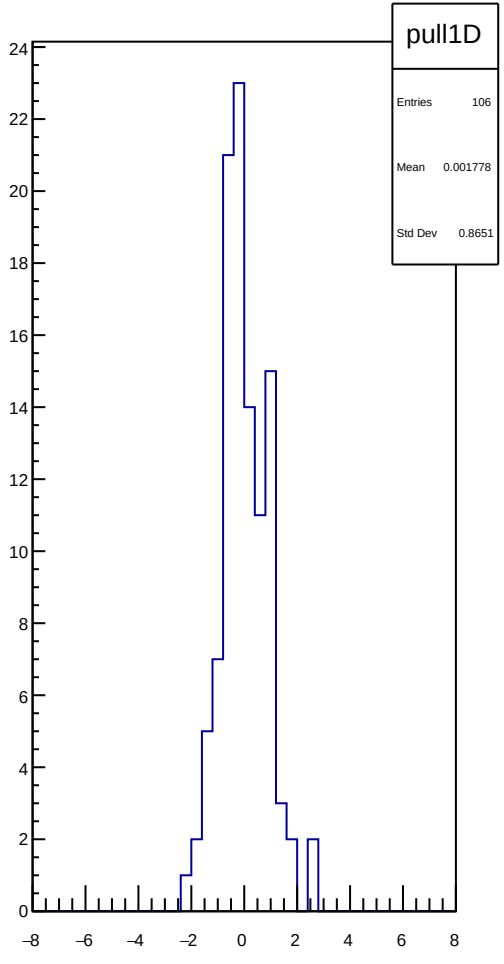

cor_asym_atl_avg_rms vs run
χ² / ndf 641 / 105
p0 1565 ± 1.1
1700
1650
1600
1550
1500

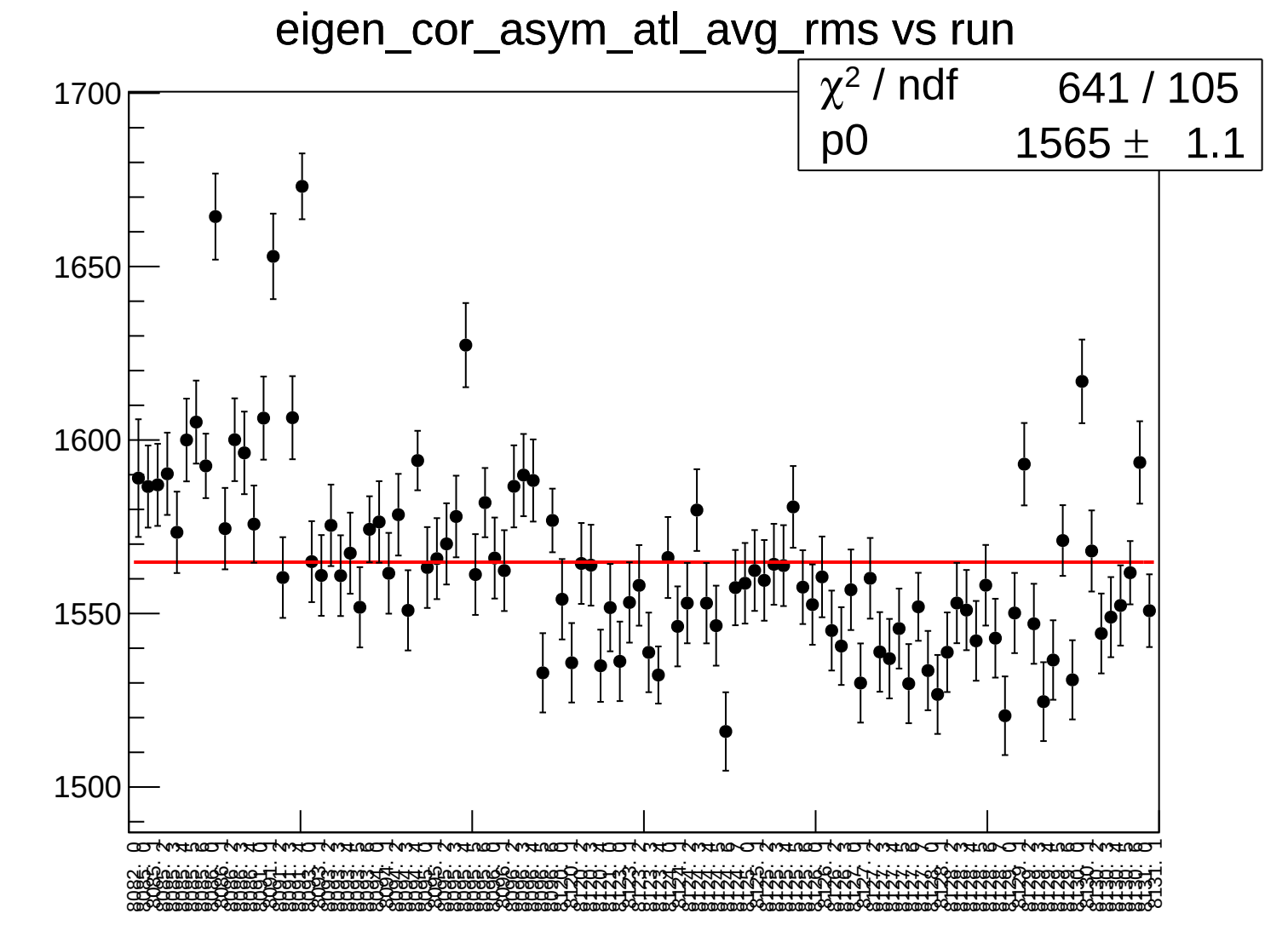

asym_atl_avg_cor_correction_mean vs run
×10^3
χ² / ndf 94.2 / 105
p0 5412 ± 3199
pull
Entries 106
Mean −214.5
Std Dev 0

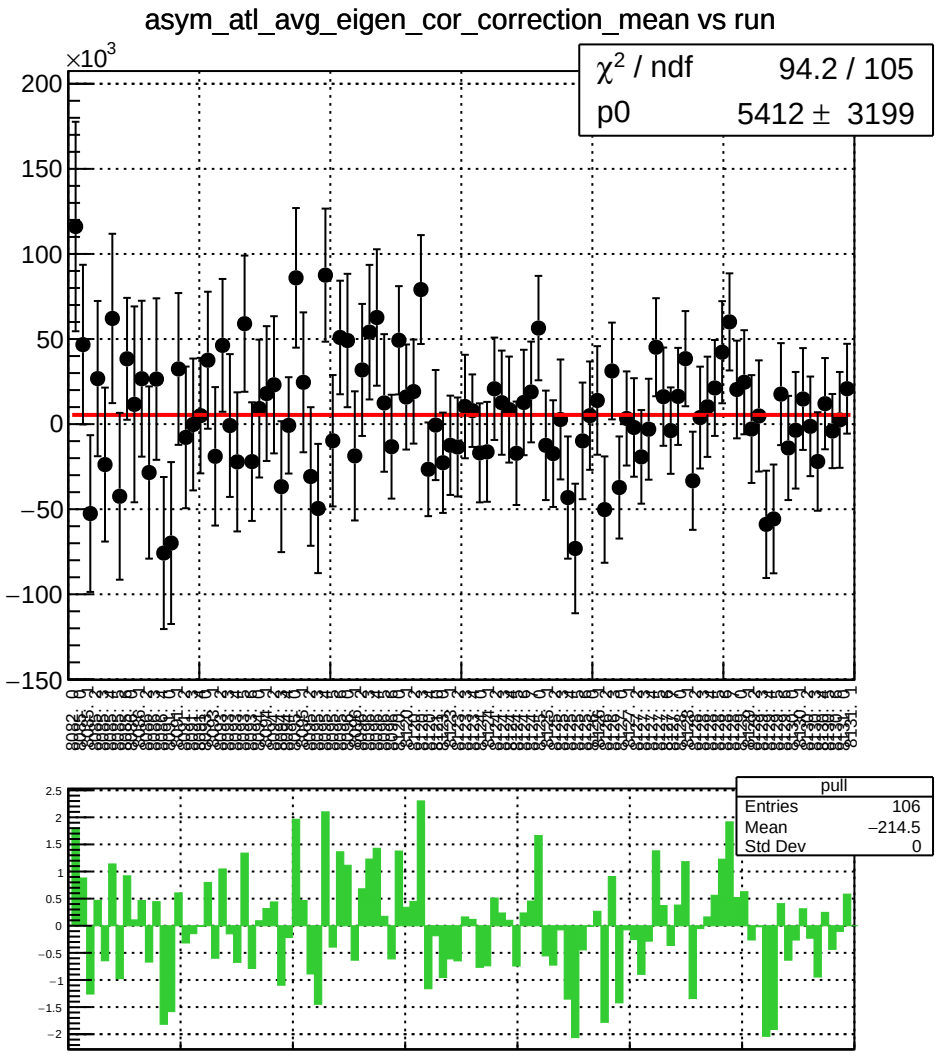

pull1D
Entries 106
Mean 0.0104
Std Dev 0.9427

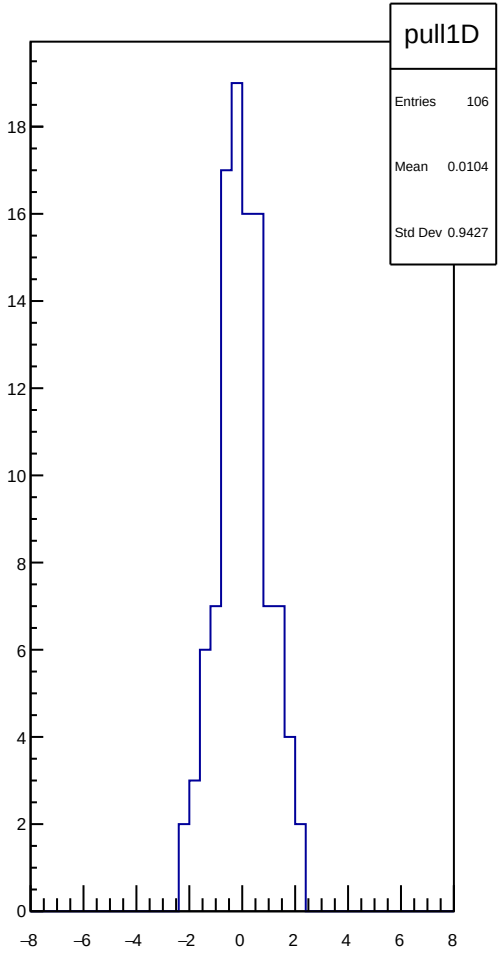

asym_atl_avg_cor_correction_rms vs run
χ² / ndf 5.947e+04 / 105
p0 3169 ± 2.262
5500
5000
4500
4000
3500
3000
2500

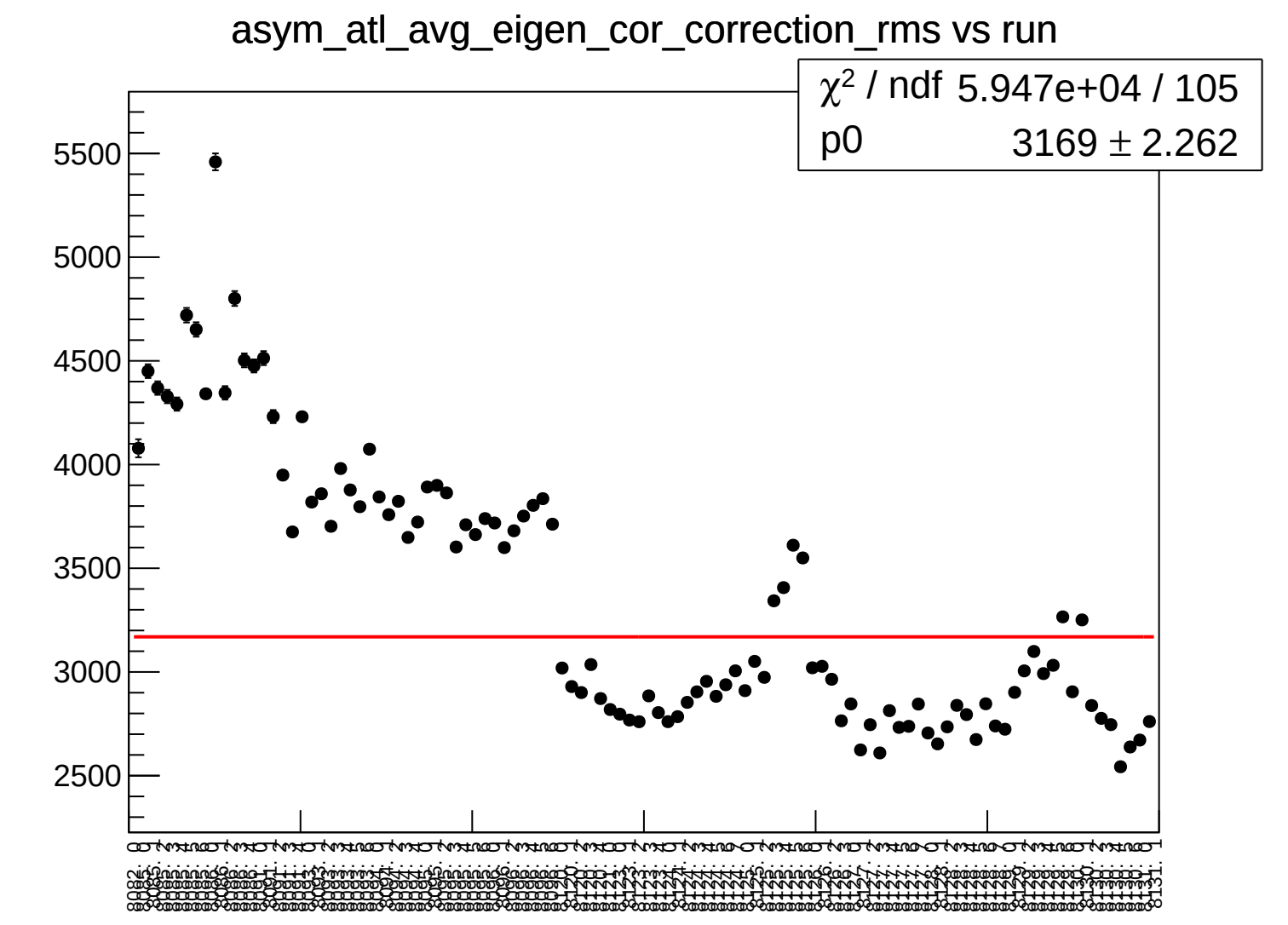

eigen_cor_asym_atl_avg_mean vs run
χ² / ndf 79.32 / 105
p0 −640.8 ± 1556
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean −1007
Std Dev 0
2
1
0
−1
−2

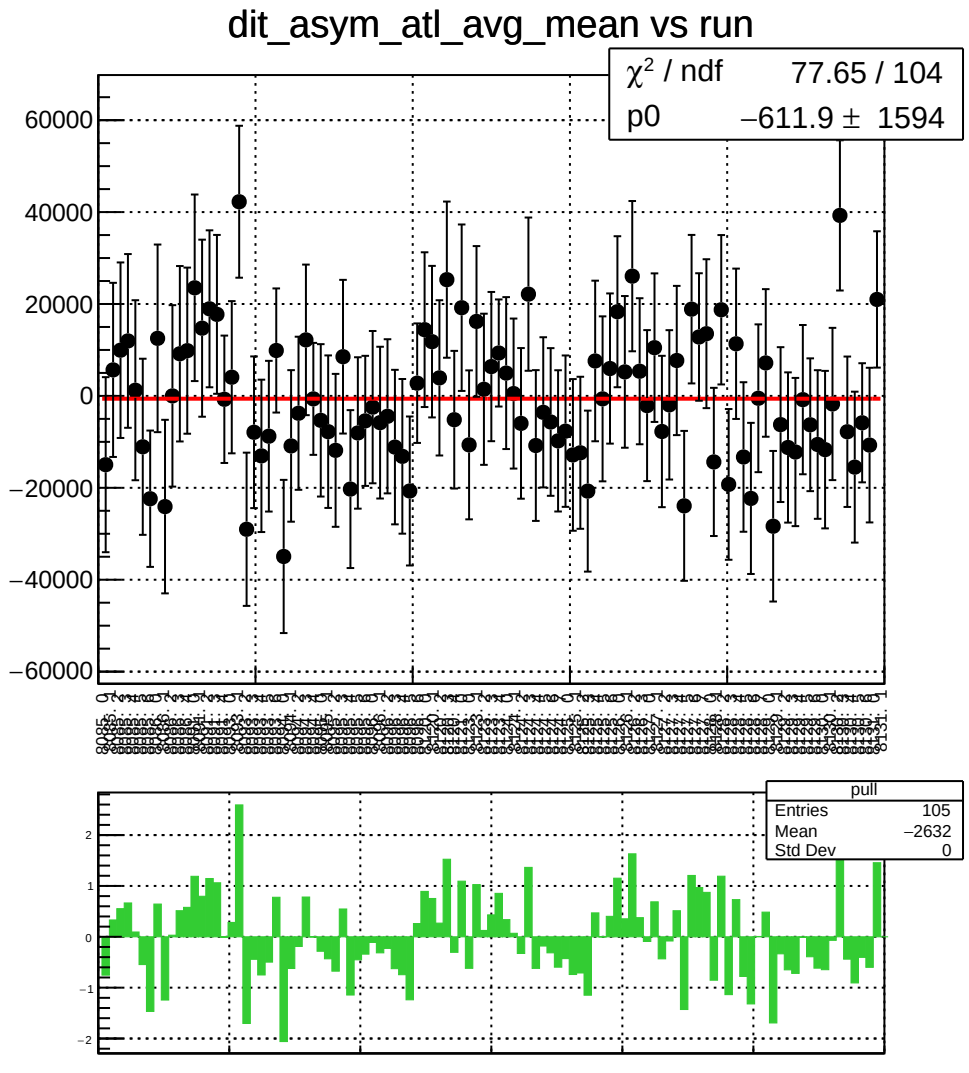

pull1D
Entries 106
Mean 0.001778
Std Dev 0.8651
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

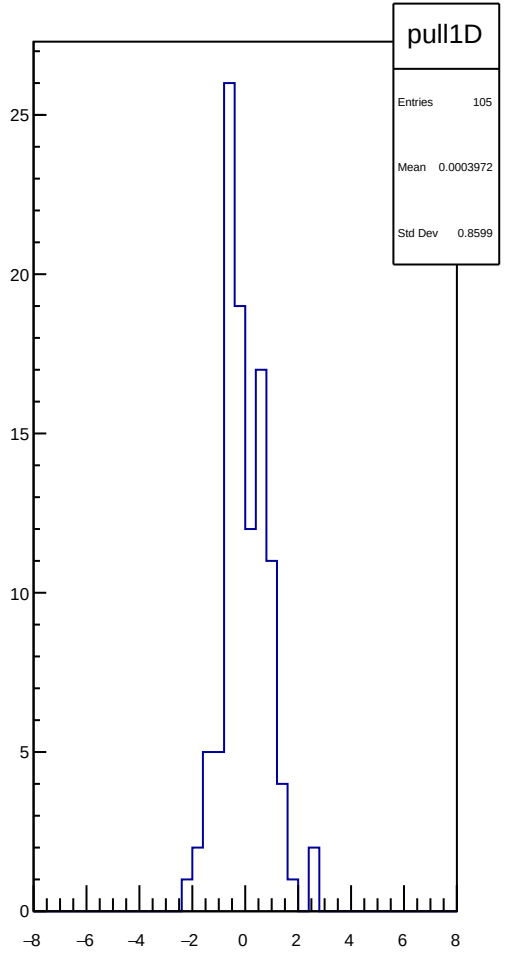

eigen_cor_asym_atl_avg_rms vs run
χ² / ndf 641 / 105
p0 1565 ± 1.1
1700
1650
1600
1550
1500

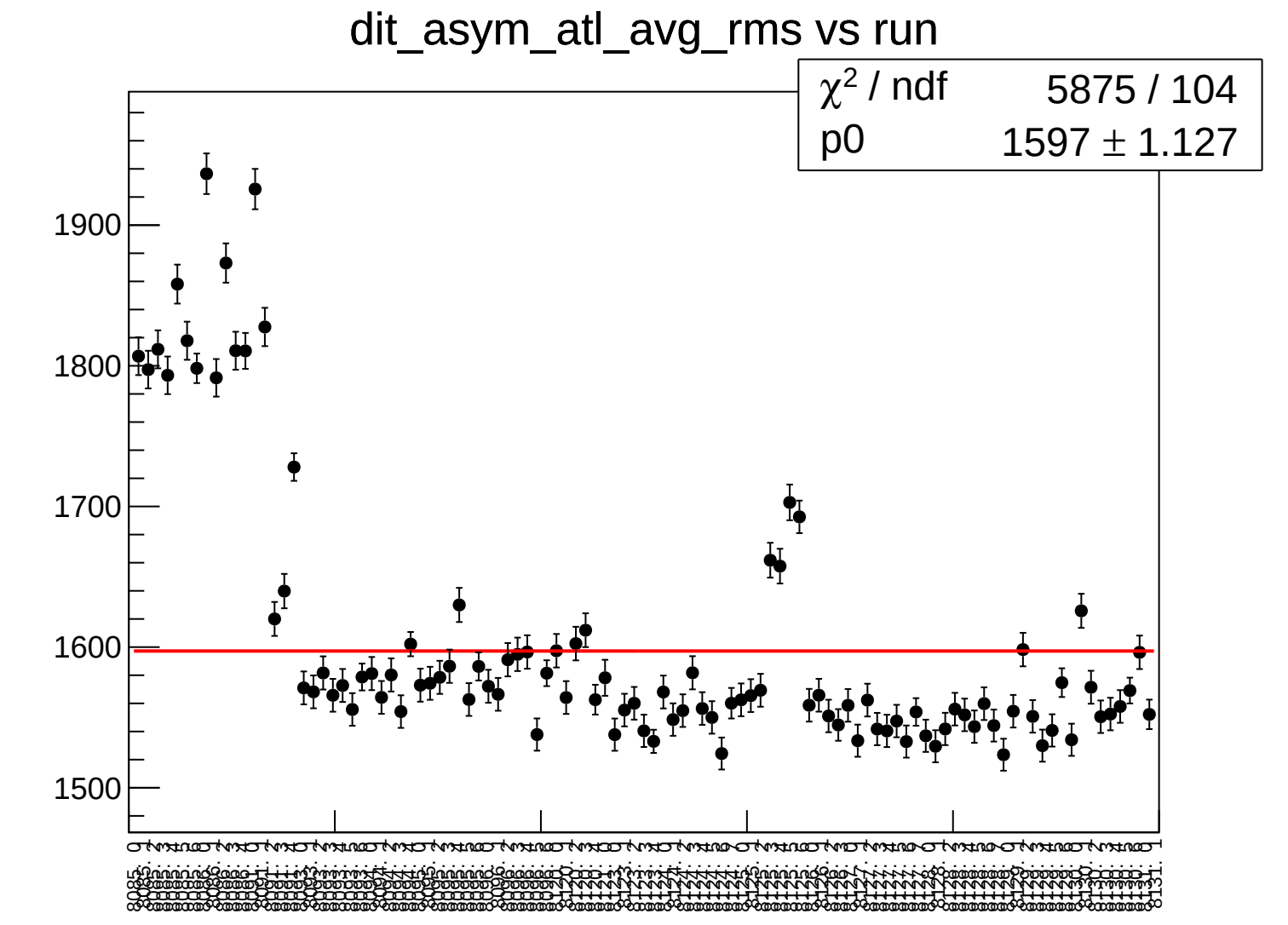

asym_atl_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 94.2 / 105
p0 5412 ± 3199
pull
Entries 106
Mean −214.5
Std Dev 0

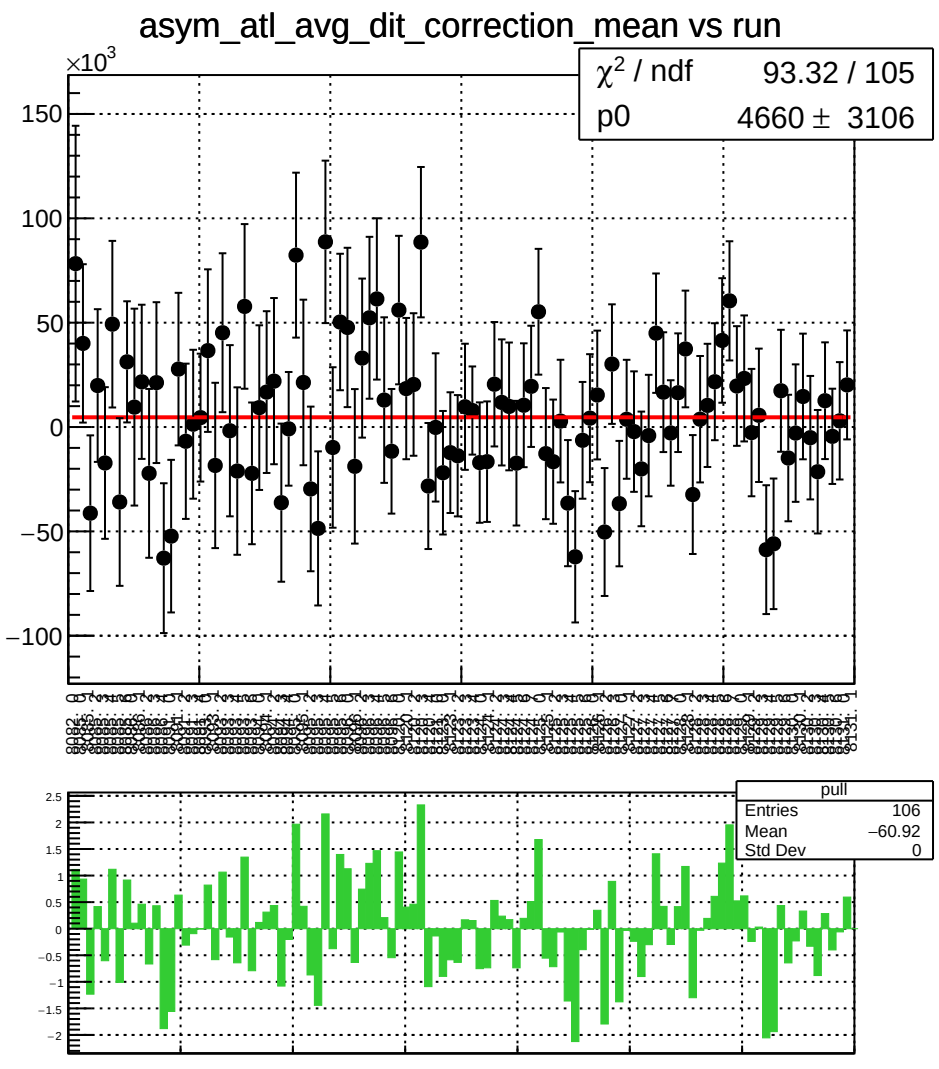

pull1D
Entries 106
Mean 0.0104
Std Dev 0.9427

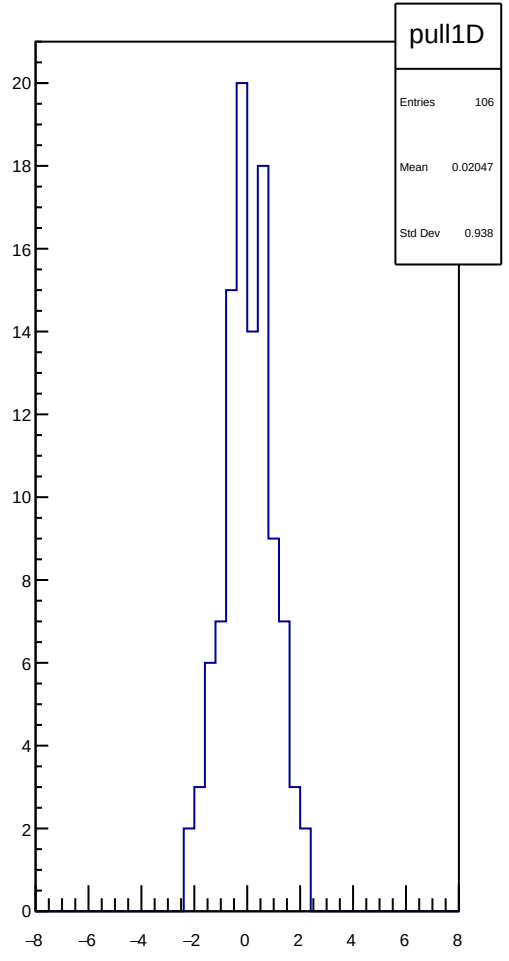

asym_atl_avg_eigen_cor_correction_rms vs run
χ² / ndf 5.947e+04 / 105
p0 3169 ± 2.262
5500
5000
4500
4000
3500
3000
2500

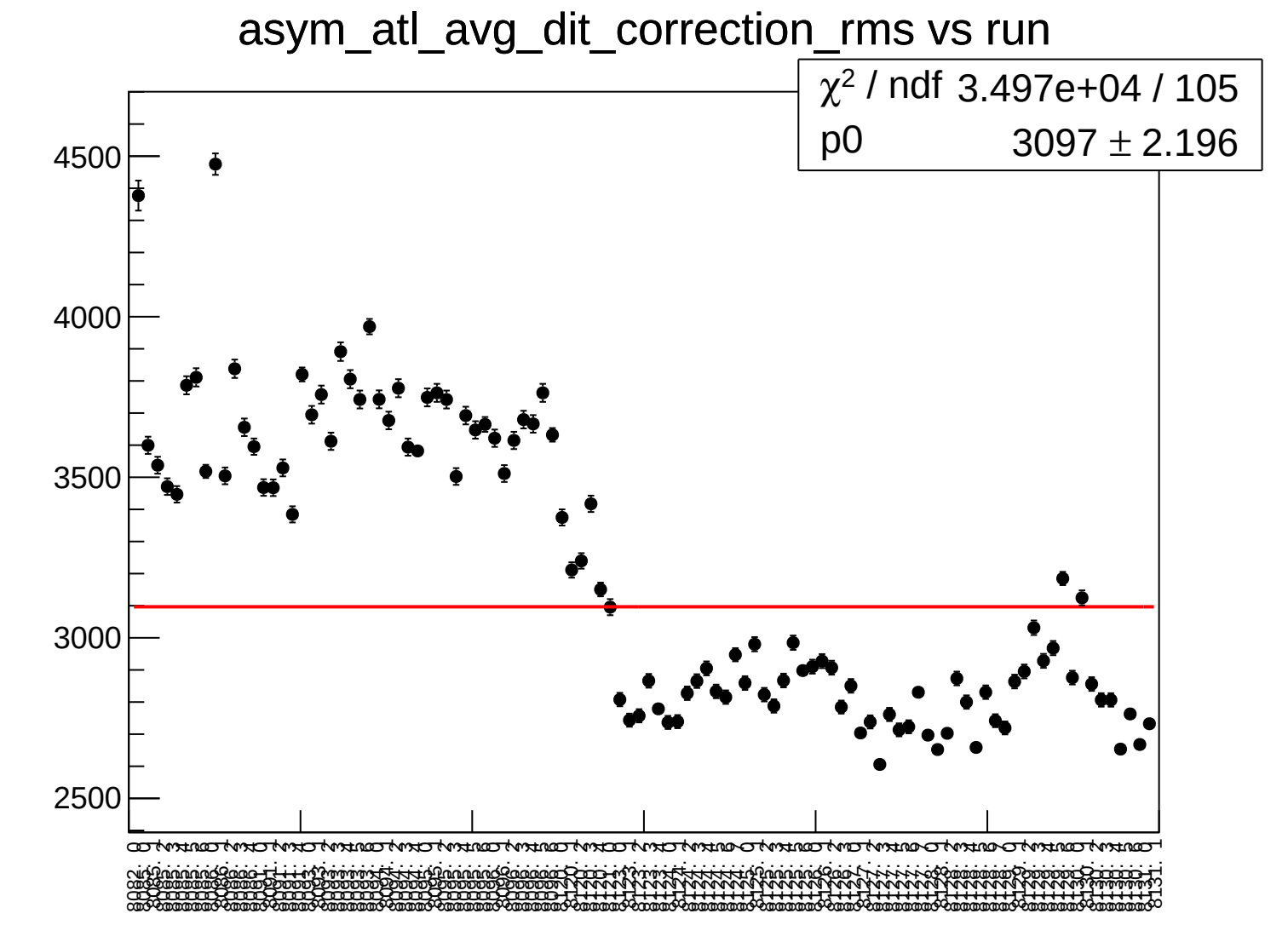

dit_asym_atl_avg_mean vs run
χ² / ndf 77.65 / 104
p0 −611.9 ± 1594
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean −2632
Std Dev 0
2
1
0
−1
−2

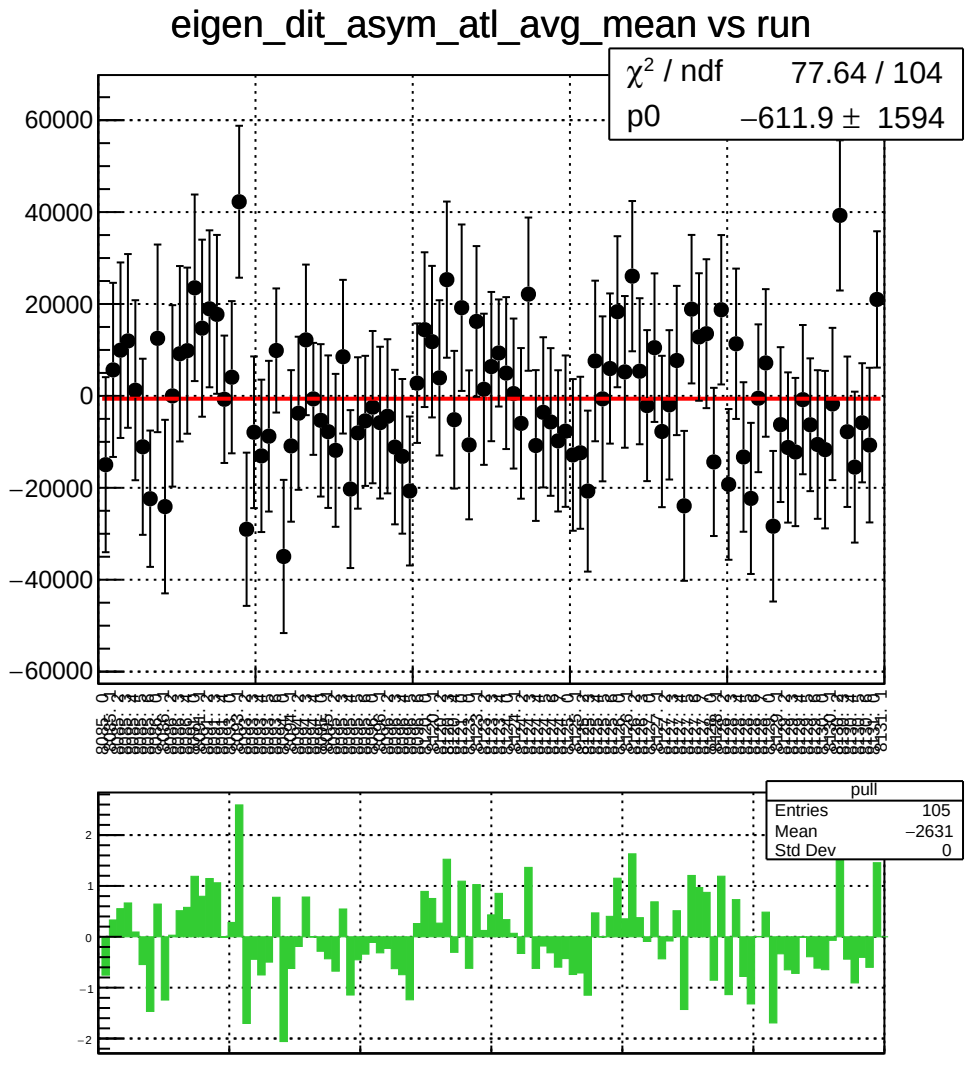

pull1D
Entries 105
Mean 0.0003972
Std Dev 0.8599
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

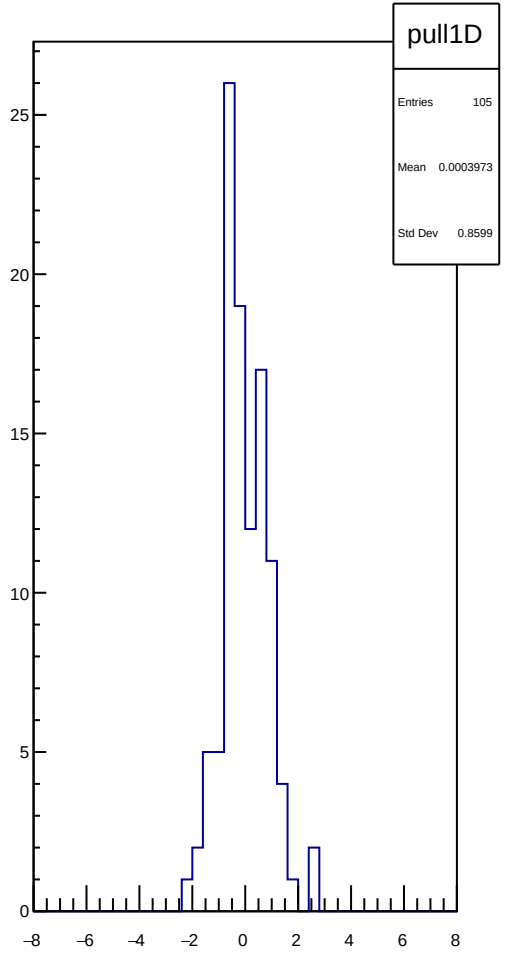

dit_asym_atl_avg_rms vs run
χ² / ndf 5875 / 104
p0 1597 ± 1.127
1900
1800
1700
1600
1500

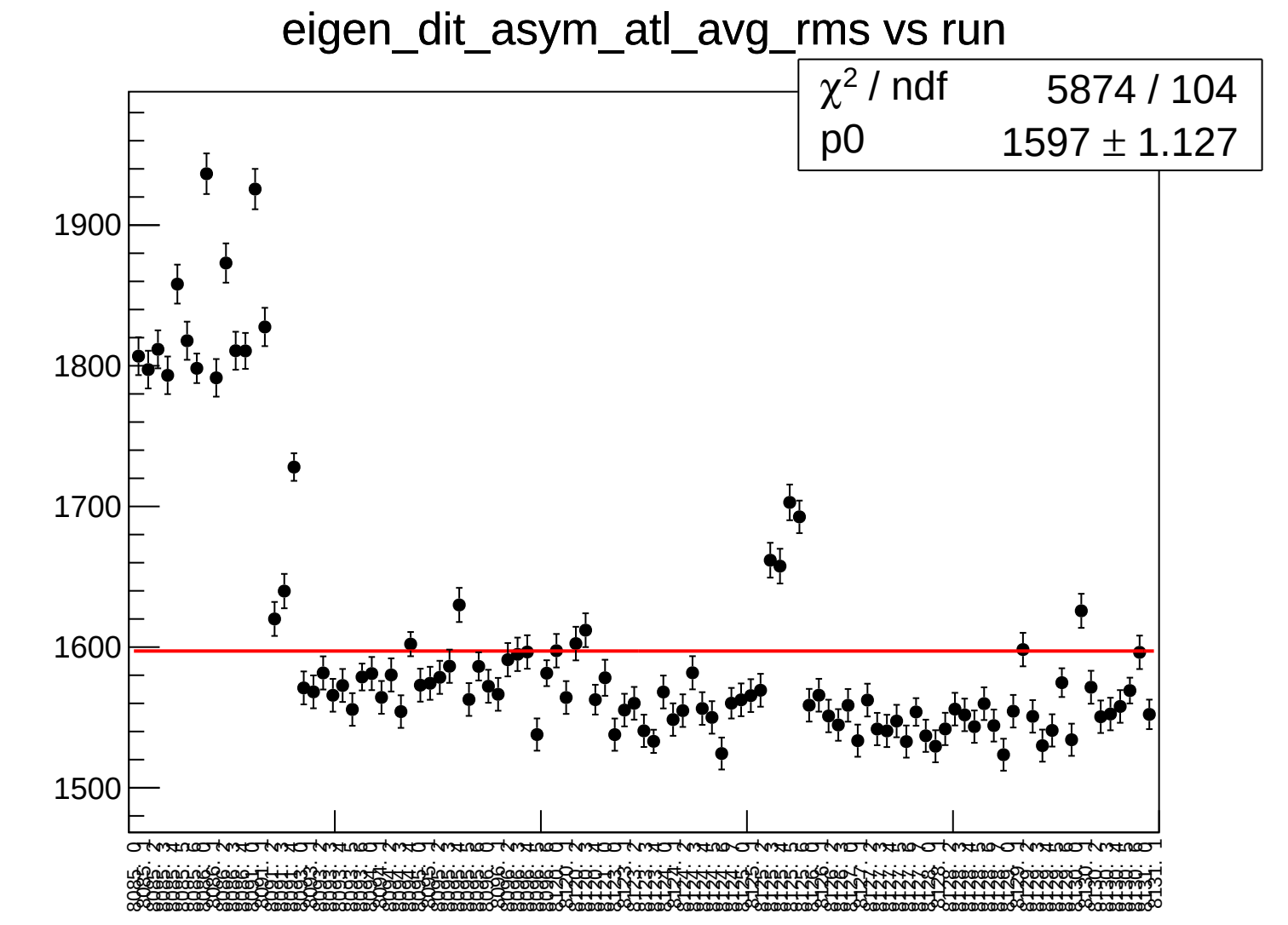

asym_atl_avg_dit_correction_mean vs run
×10^3
χ² / ndf 93.32 / 105
p0 4660 ± 3106
150
100
50
0
−50
−100
pull
Entries 106
Mean −60.92
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

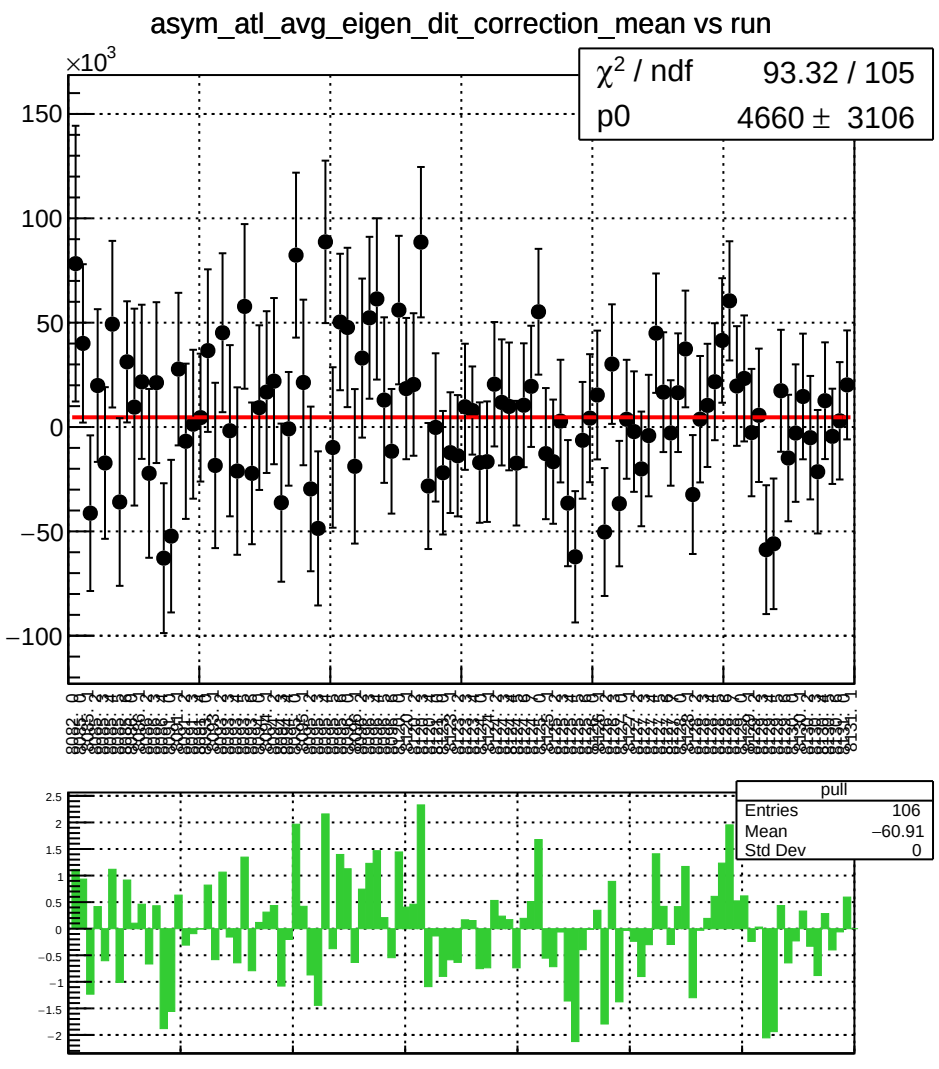

pull1D
Entries 106
Mean 0.02047
Std Dev 0.938
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

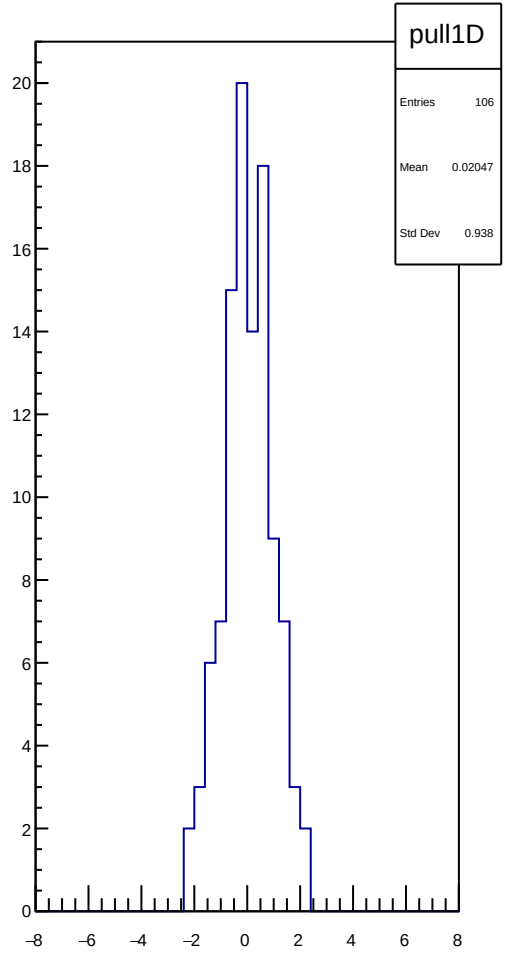

asym_atl_avg_dit_correction_rms vs run
χ² / ndf 3.497e+04 / 105
p0 3097 ± 2.196
4500
4000
3500
3000
2500

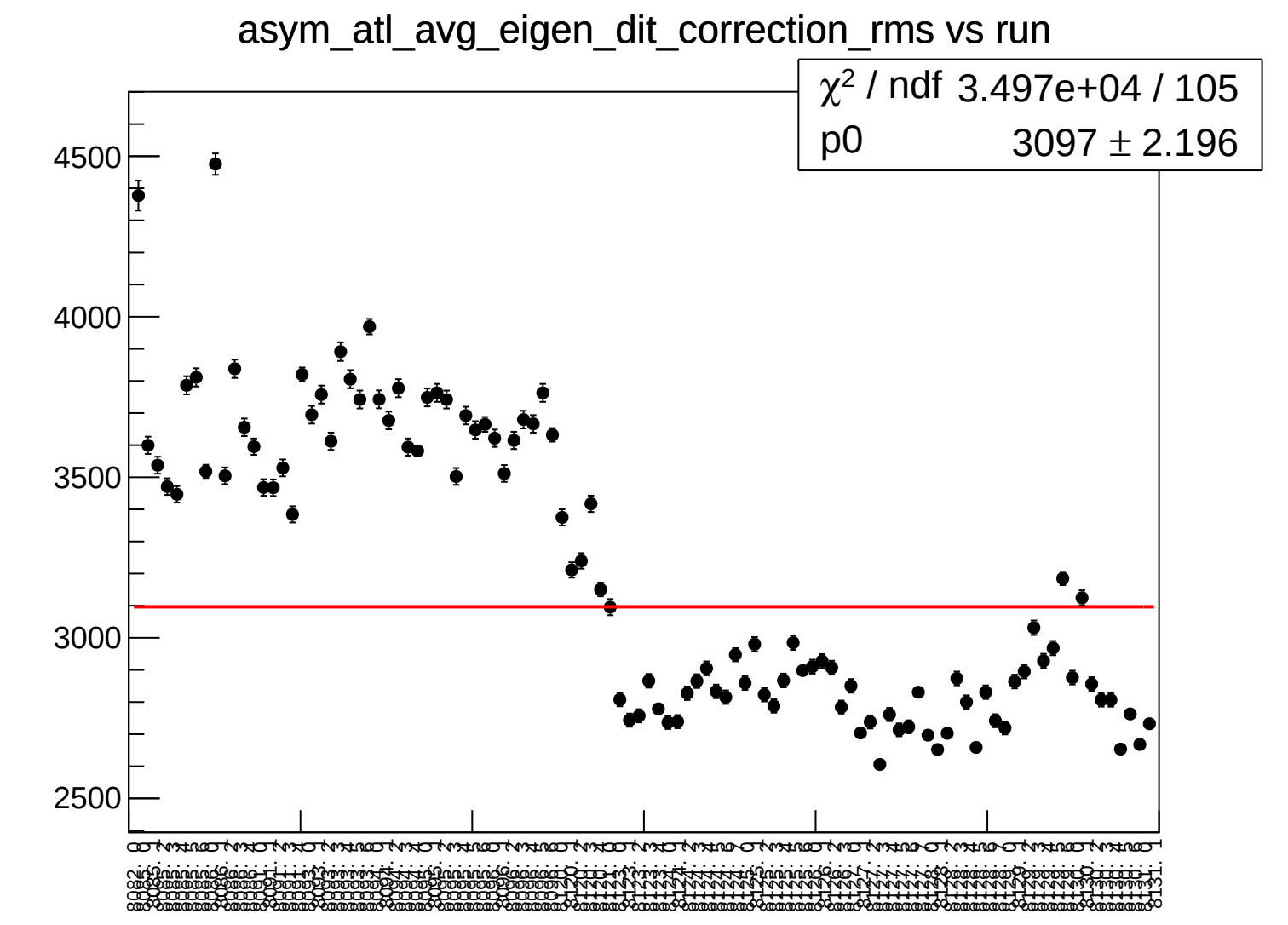

eigen_dit_asym_atl_avg_mean vs run
χ² / ndf 77.64 / 104
p0 −611.9 ± 1594
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean −2631
Std Dev 0
2
1
0
−1
−2

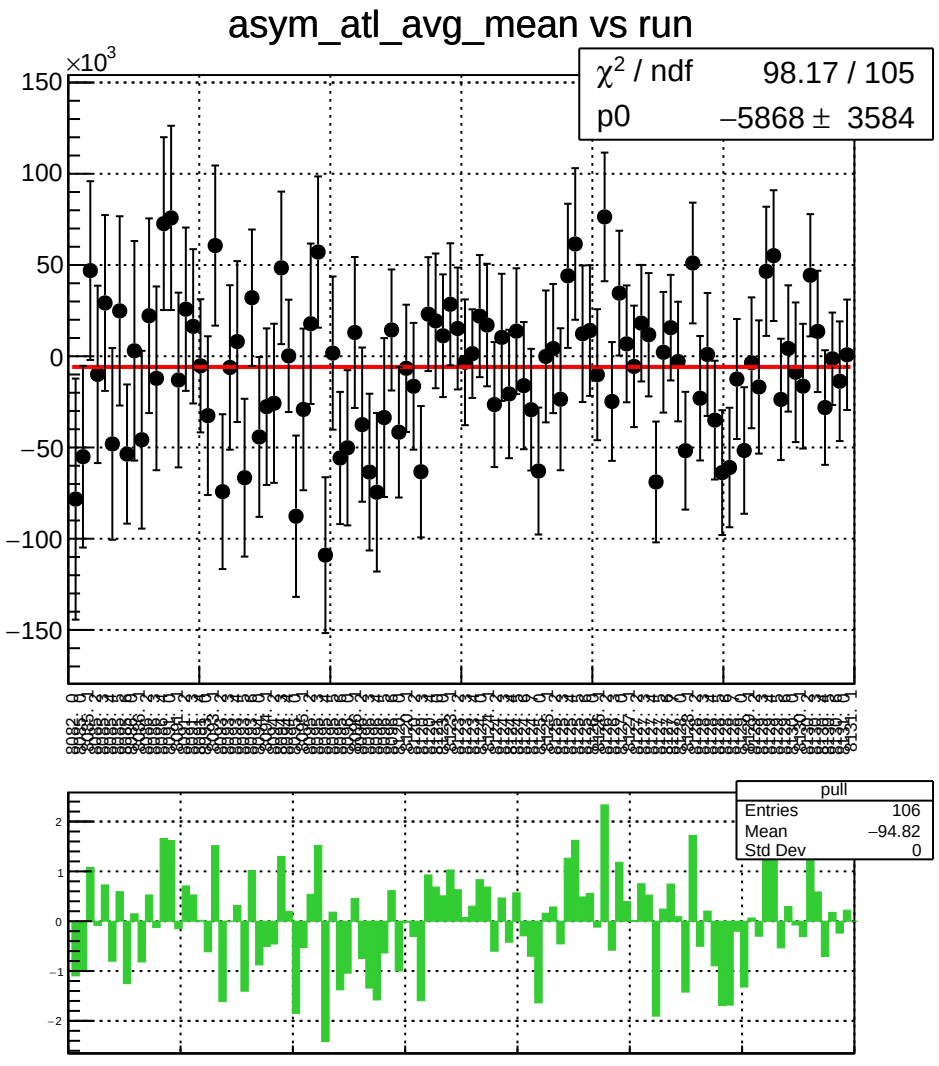

pull1D
Entries 105
Mean 0.0003973
Std Dev 0.8599
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

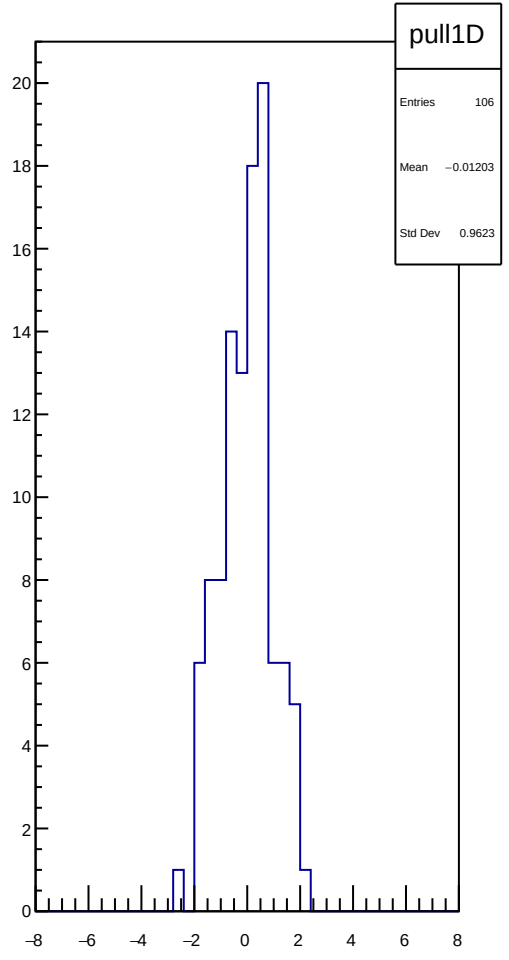

eigen_dit_asym_atl_avg_rms vs run
χ² / ndf 5874 / 104
p0 1597 ± 1.127
1900
1800
1700
1600
1500

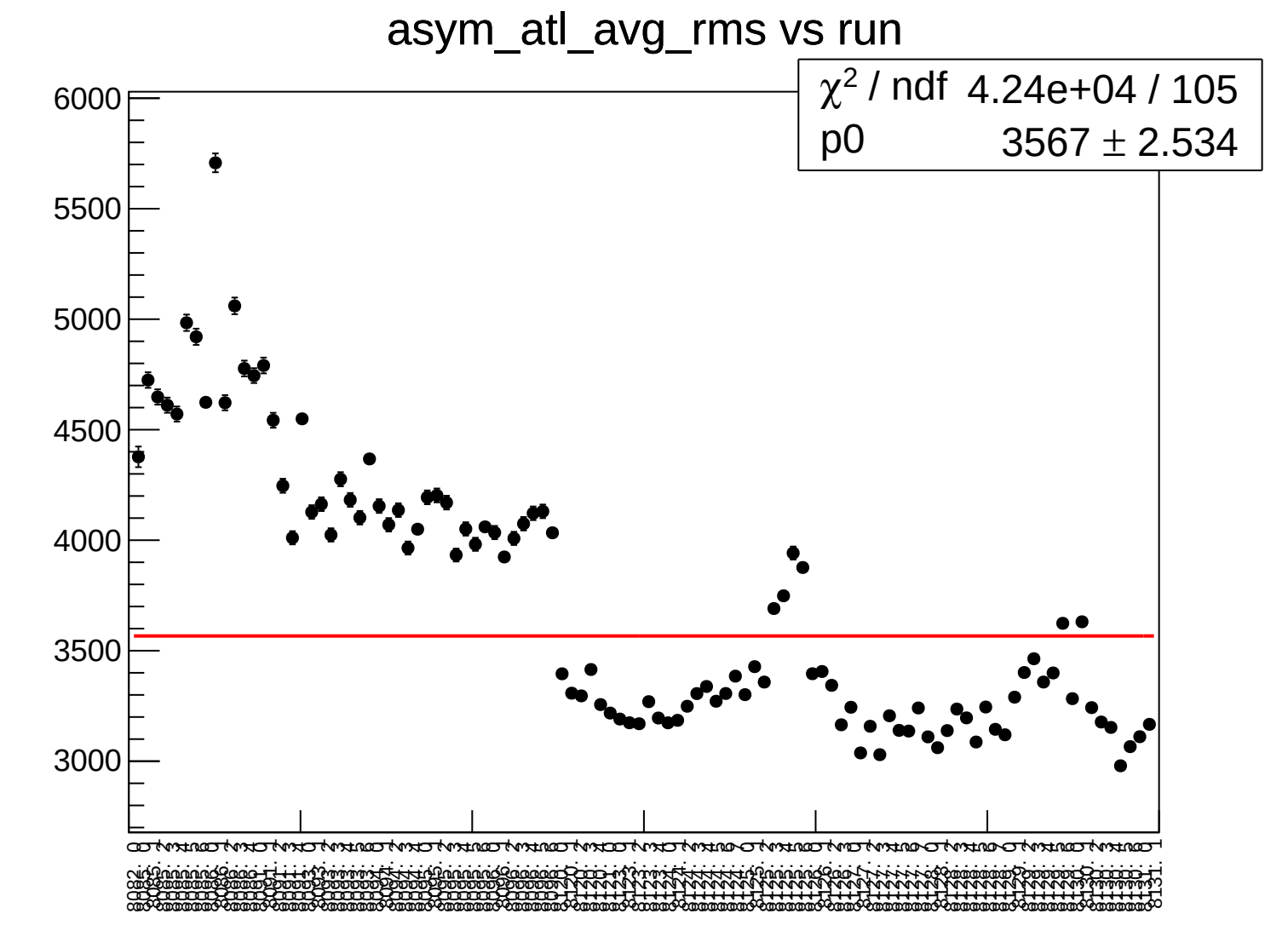

asym_atl_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 93.32 / 105
p0 4660 ± 3106
150
100
50
0
−50
−100
pull
Entries 106
Mean −60.91
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

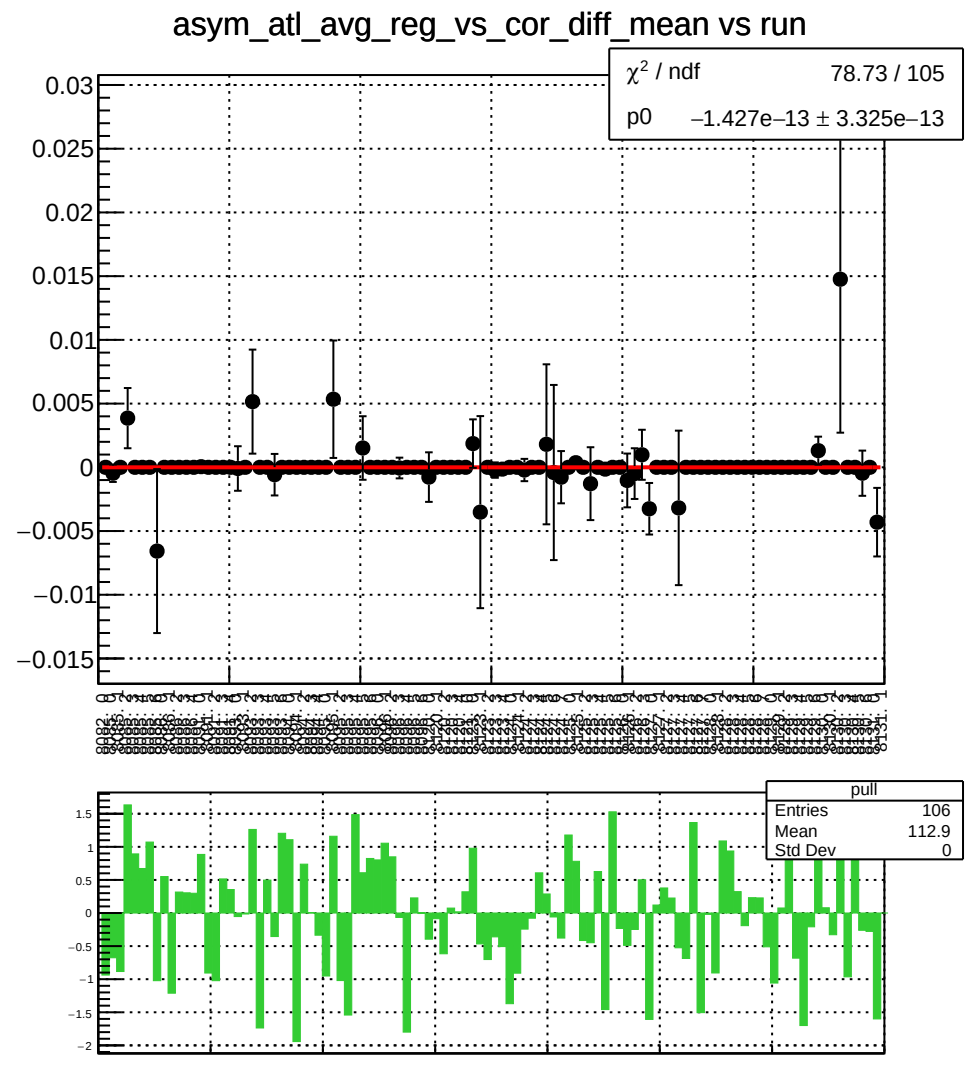

pull1D
Entries 106
Mean 0.02047
Std Dev 0.938
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

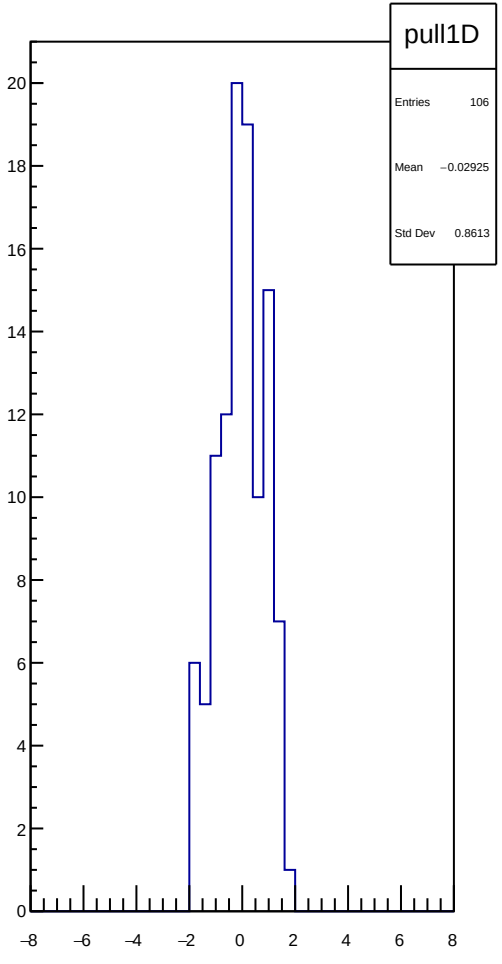

asym_atl_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.497e+04 / 105
p0 3097 ± 2.196
4500
4000
3500
3000
2500

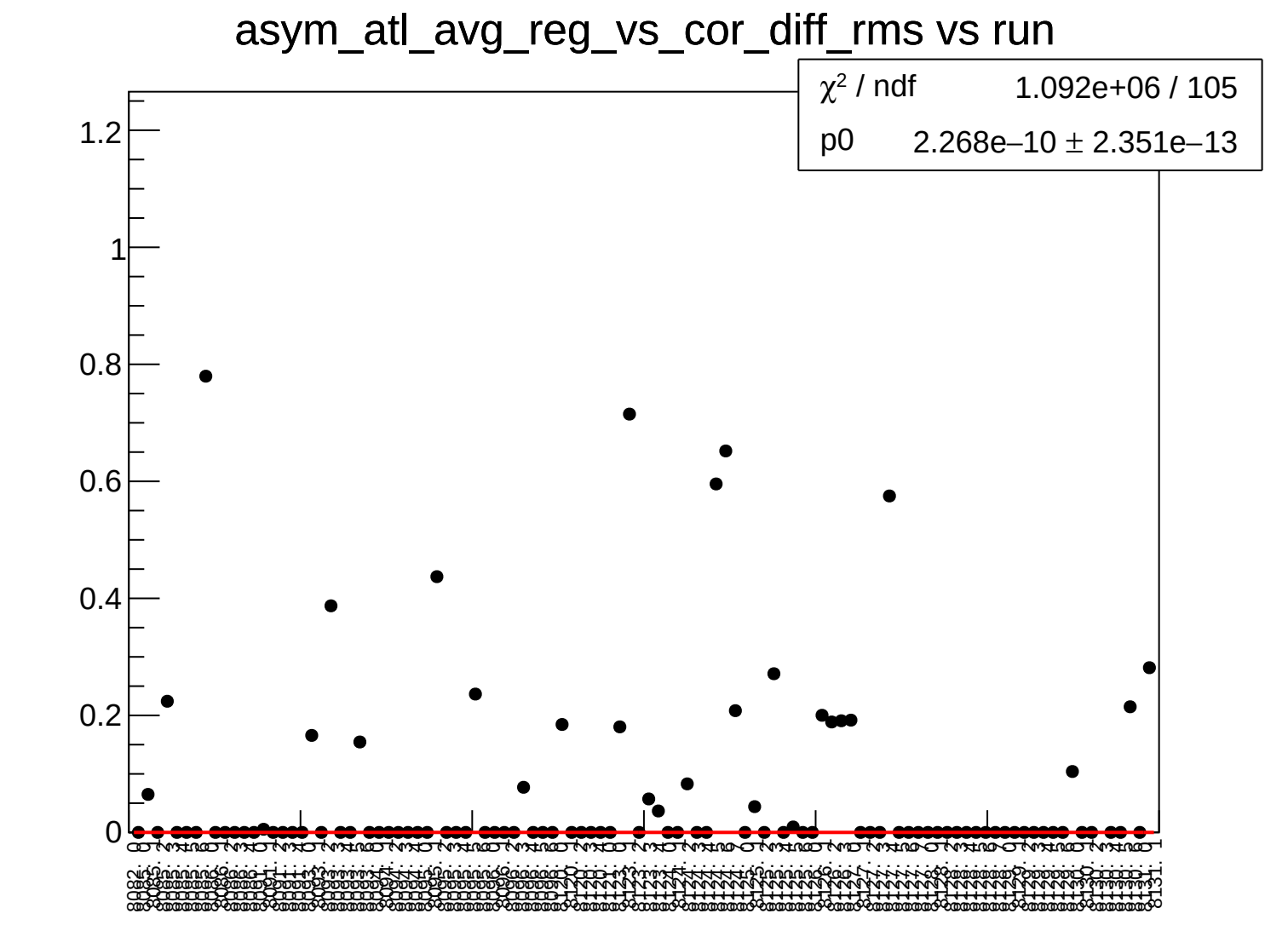

asym_atl_avg_mean vs run
×10^3
χ² / ndf 98.17 / 105
p0 −5868 ± 3584
150
100
50
0
−50
−100
−150
pull
Entries 106
Mean −94.82
Std Dev 0
2
1
0
−1
−2

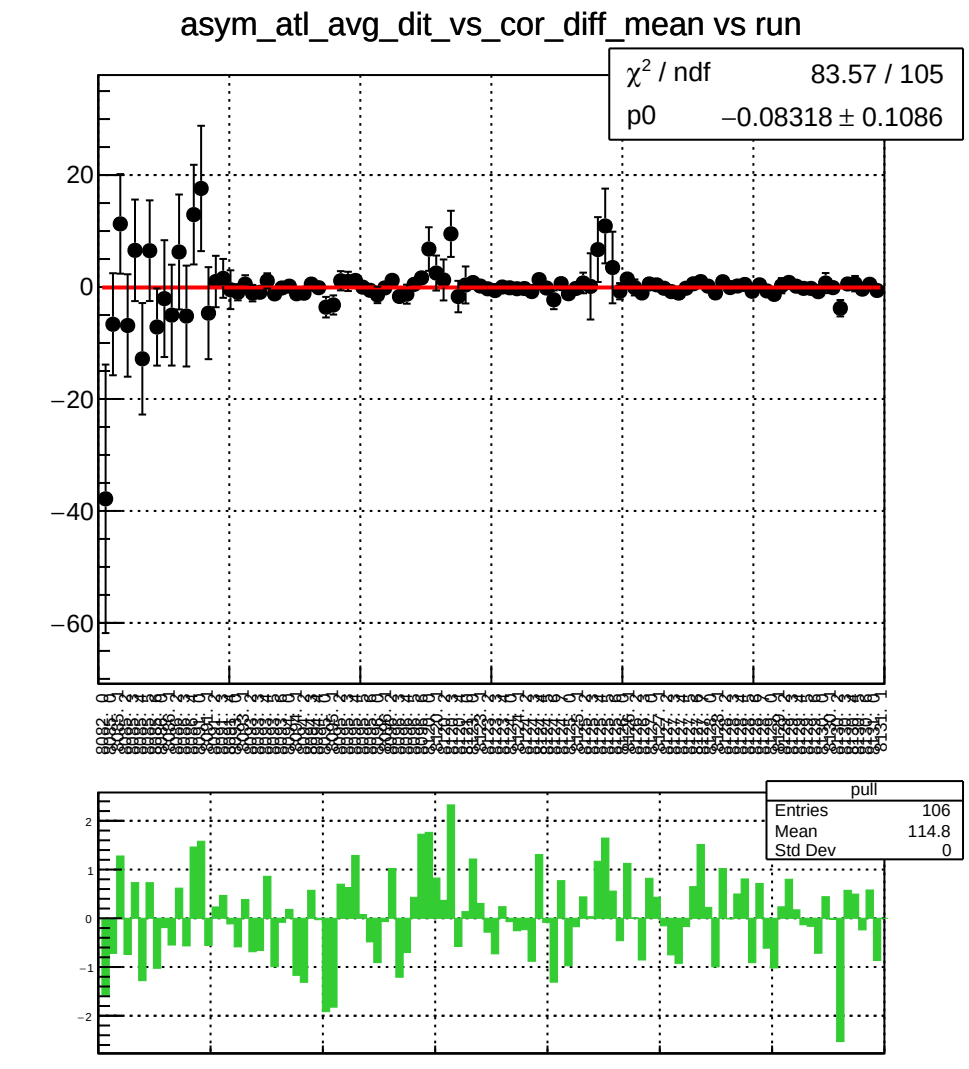

pull1D
Entries 106
Mean −0.01203
Std Dev 0.9623
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

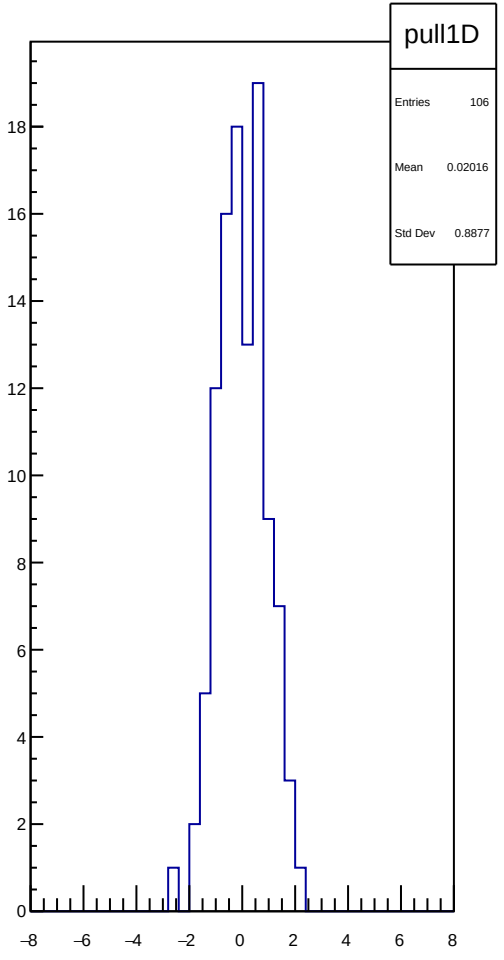

asym_atl_avg_rms vs run
χ² / ndf 4.24e+04 / 105
p0 3567 ± 2.534
6000
5500
5000
4500
4000
3500
3000

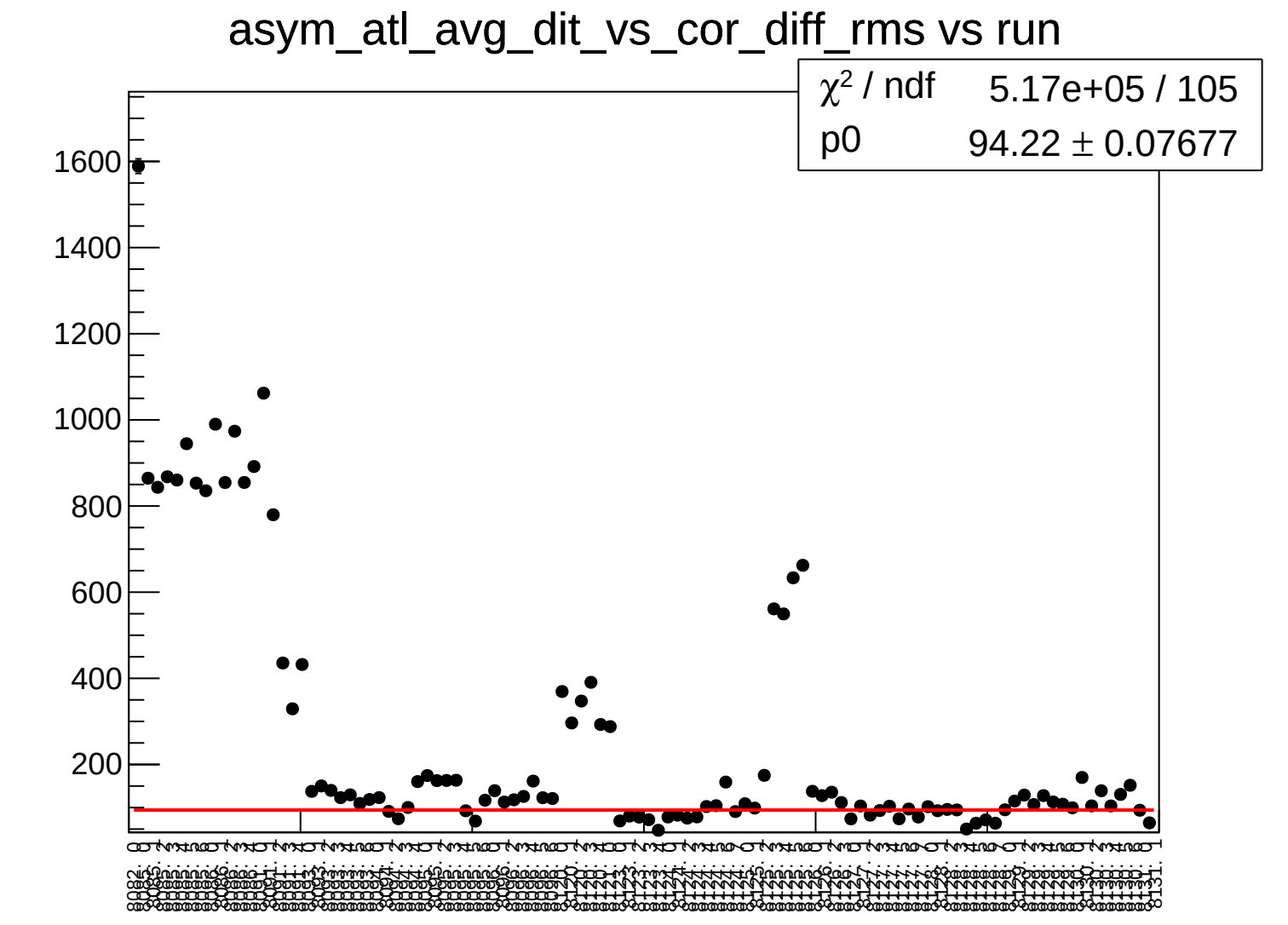

asym_atl_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 78.73 / 105
p0 −1.427e−13 ± 3.325e−13
pull
Entries 106
Mean 112.9
Std Dev 0

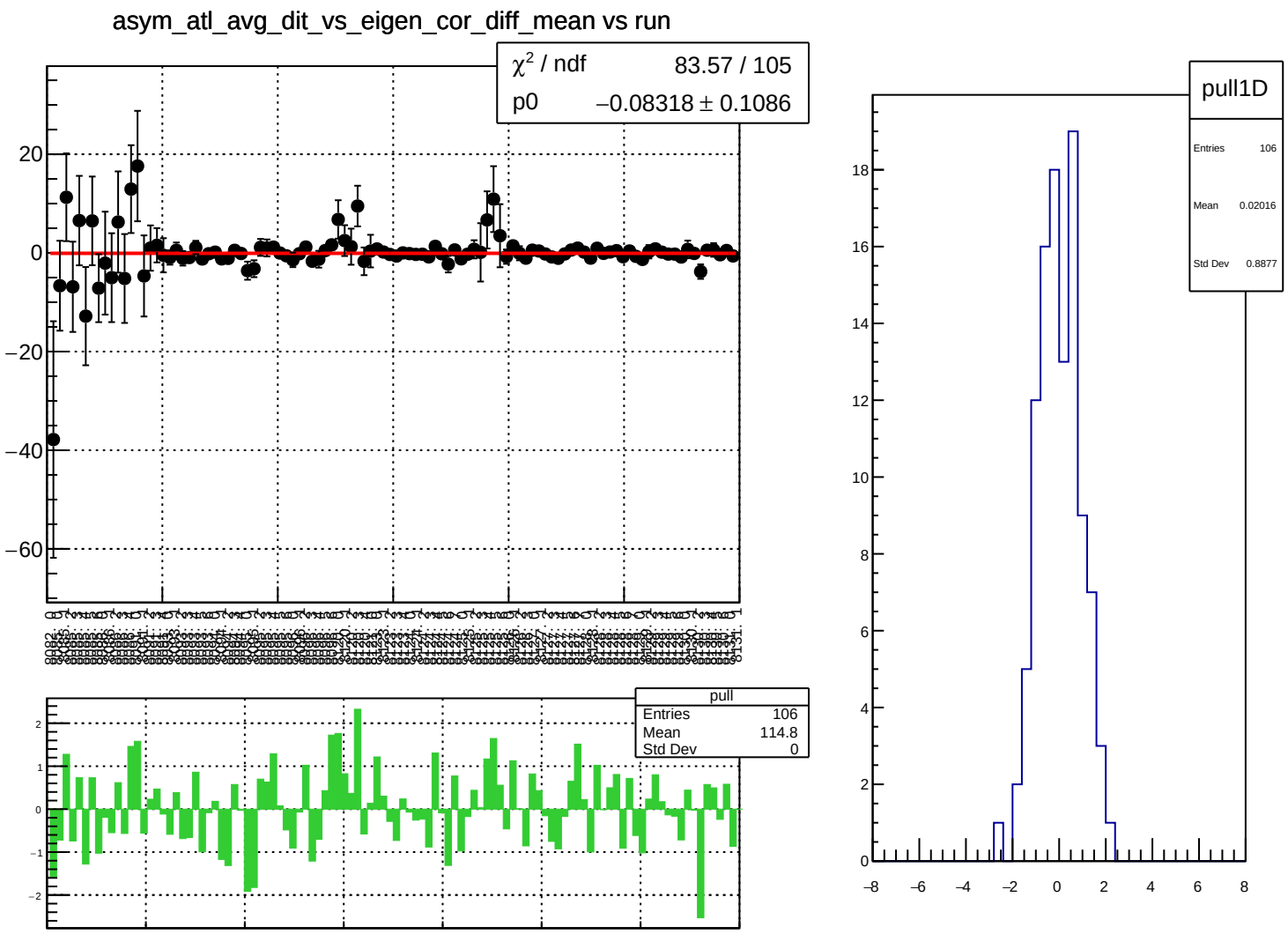

pull1D
Entries 106
Mean −0.02925
Std Dev 0.8613

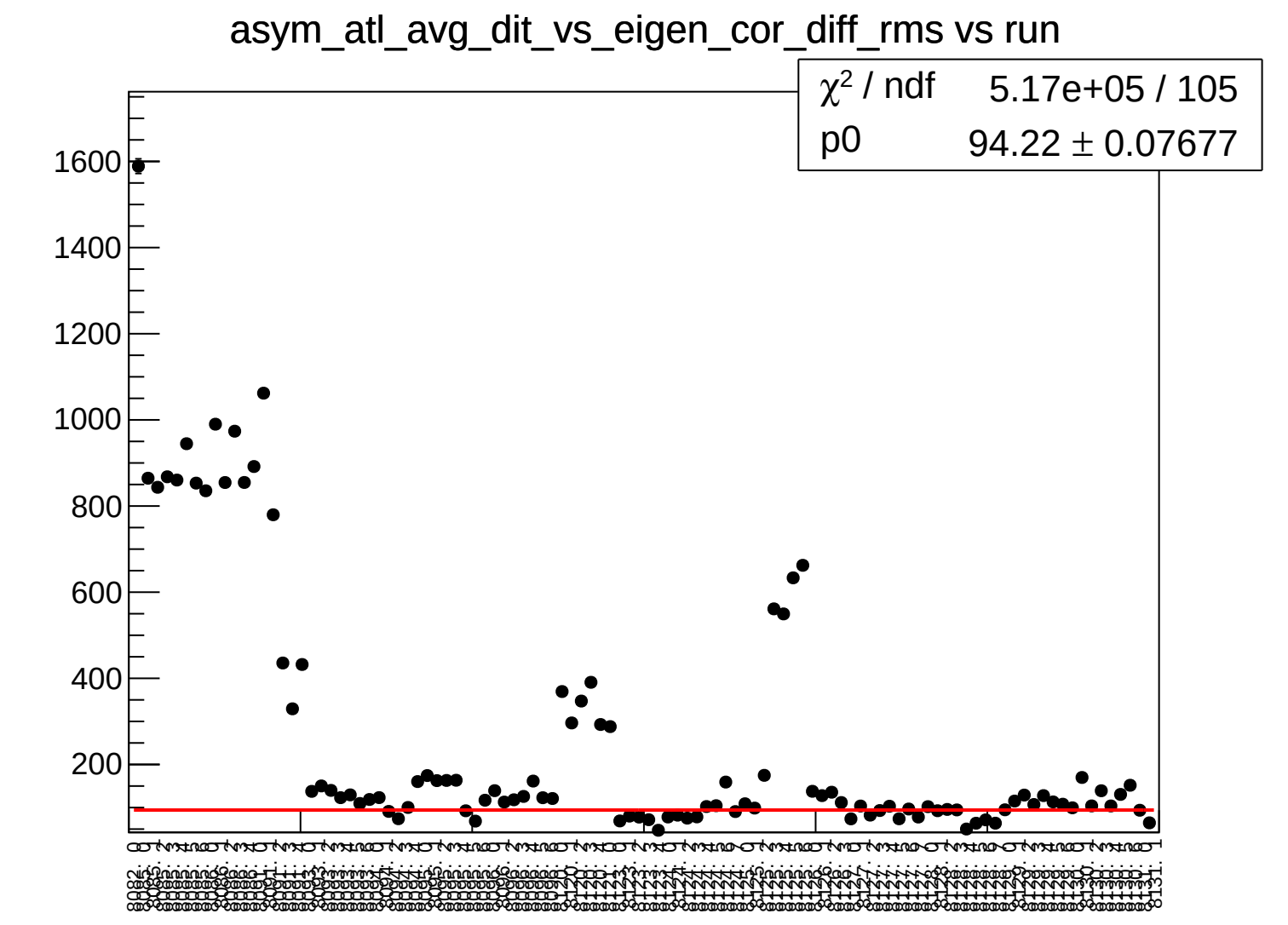

asym_atl_avg_reg_vs_cor_diff_rms vs run
$\chi^2$ / ndf 1.092e+06 / 105
p0 2.268e−10 ± 2.351e−13
1.2
1
0.8
0.6
0.4
0.2
0

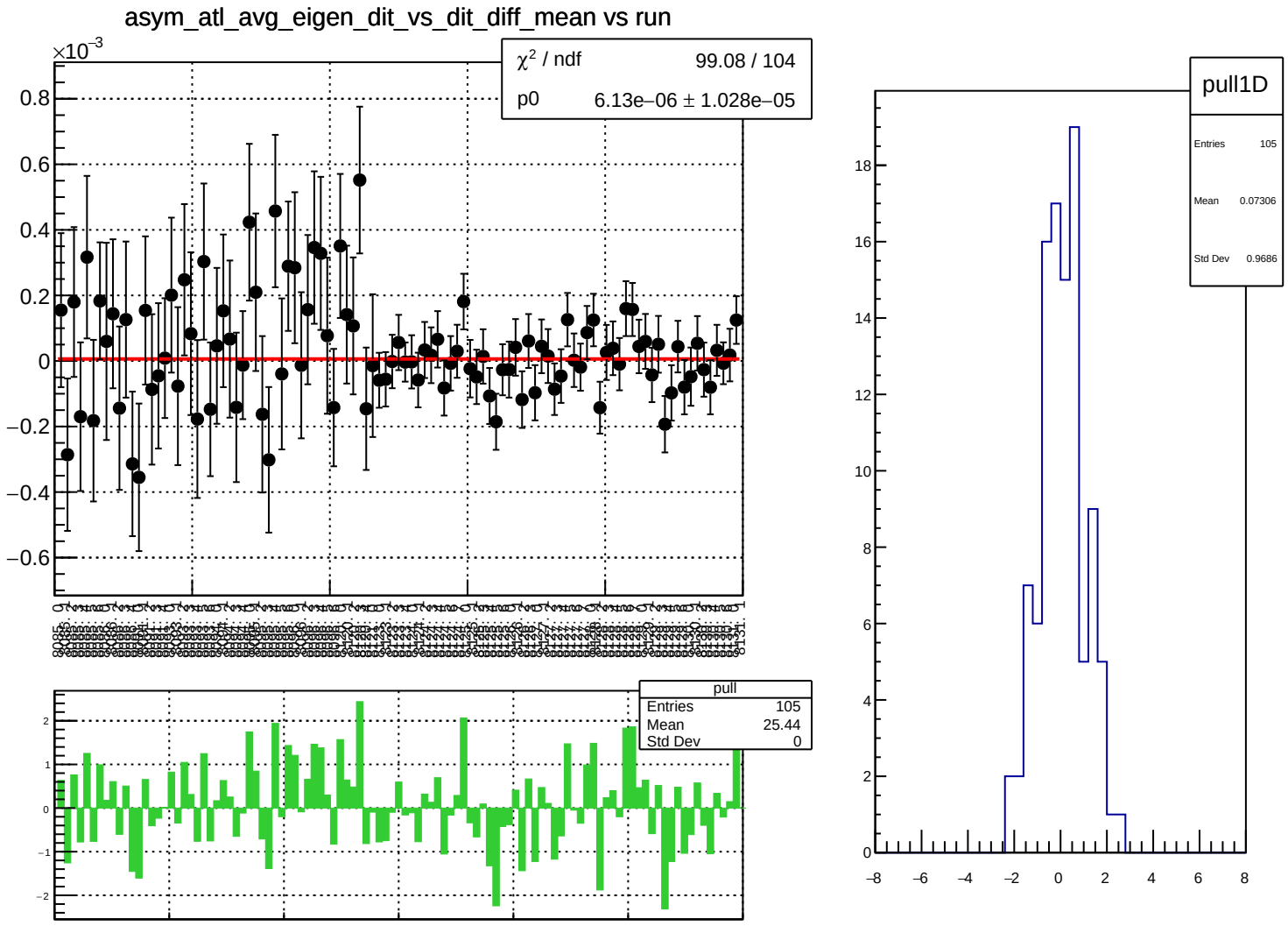

asym_atl_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 83.57 / 105
p0 −0.08318 ± 0.1086
20
0
−20
−40
−60
pull
Entries 106
Mean 114.8
Std Dev 0
2
1
0
−1
−2

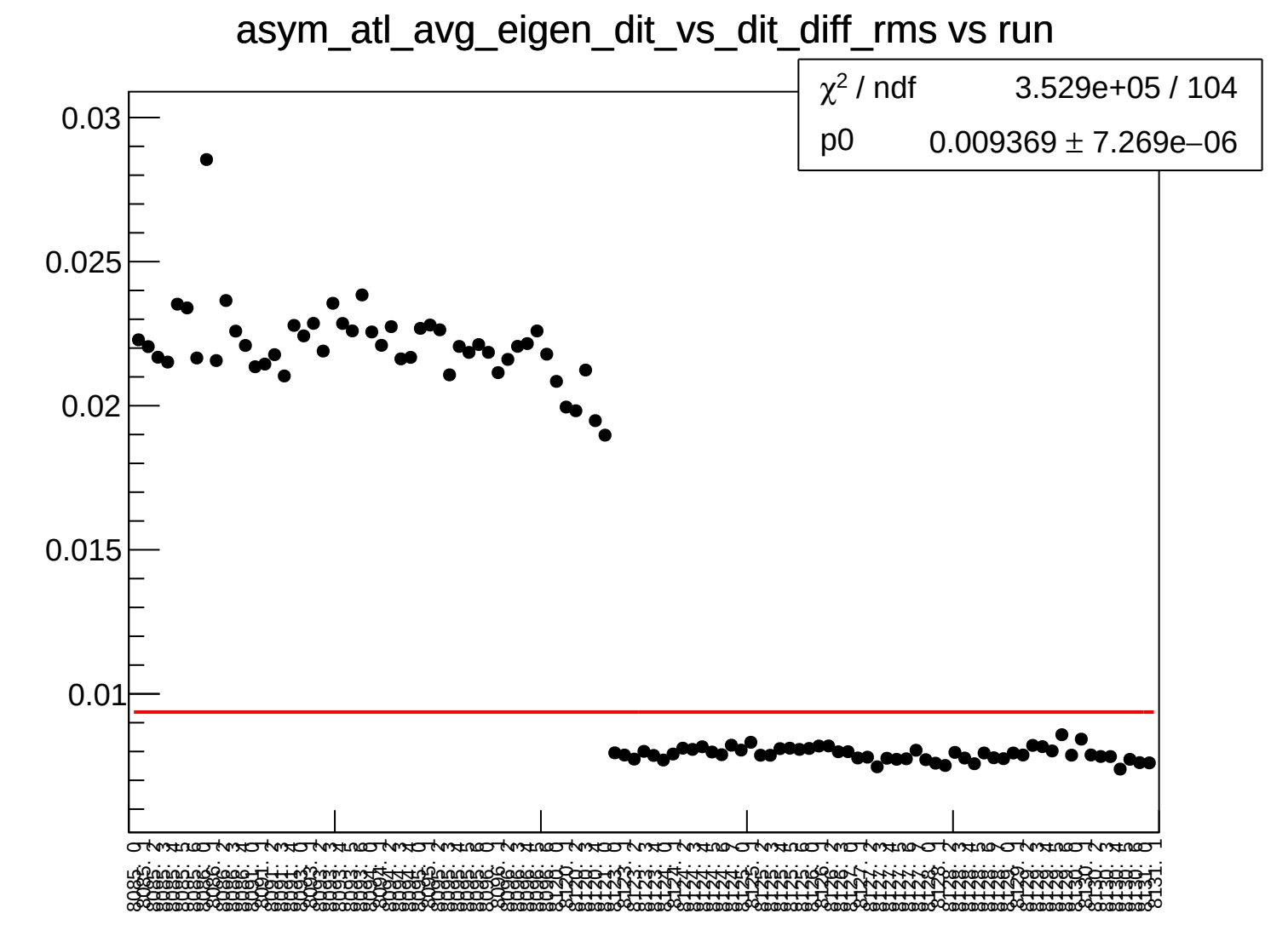

pull1D
Entries 106
Mean 0.02016
Std Dev 0.8877
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

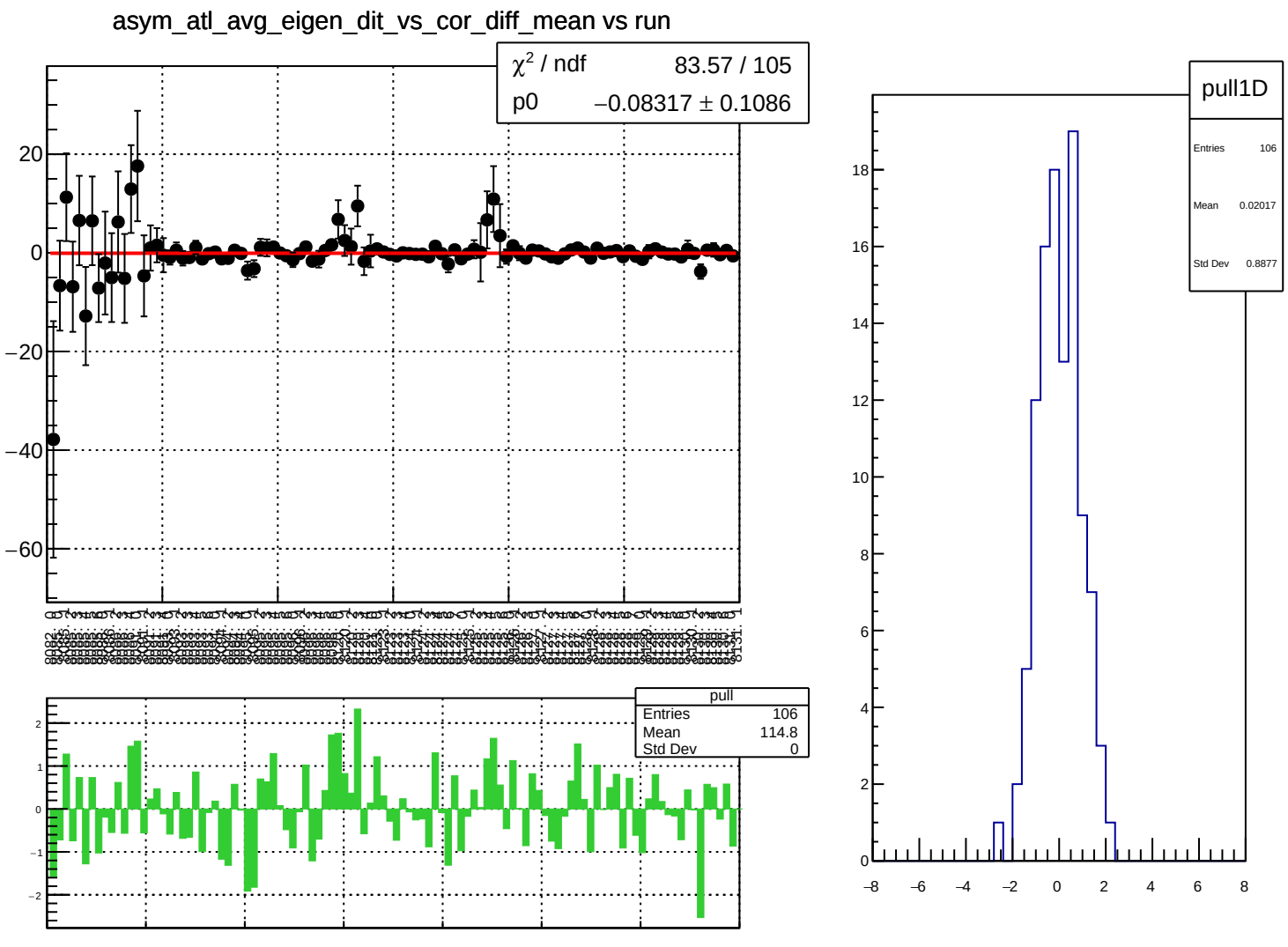

asym_atl_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.17e+05 / 105
p0 94.22 ± 0.07677
1600
1400
1200
1000
800
600
400
200

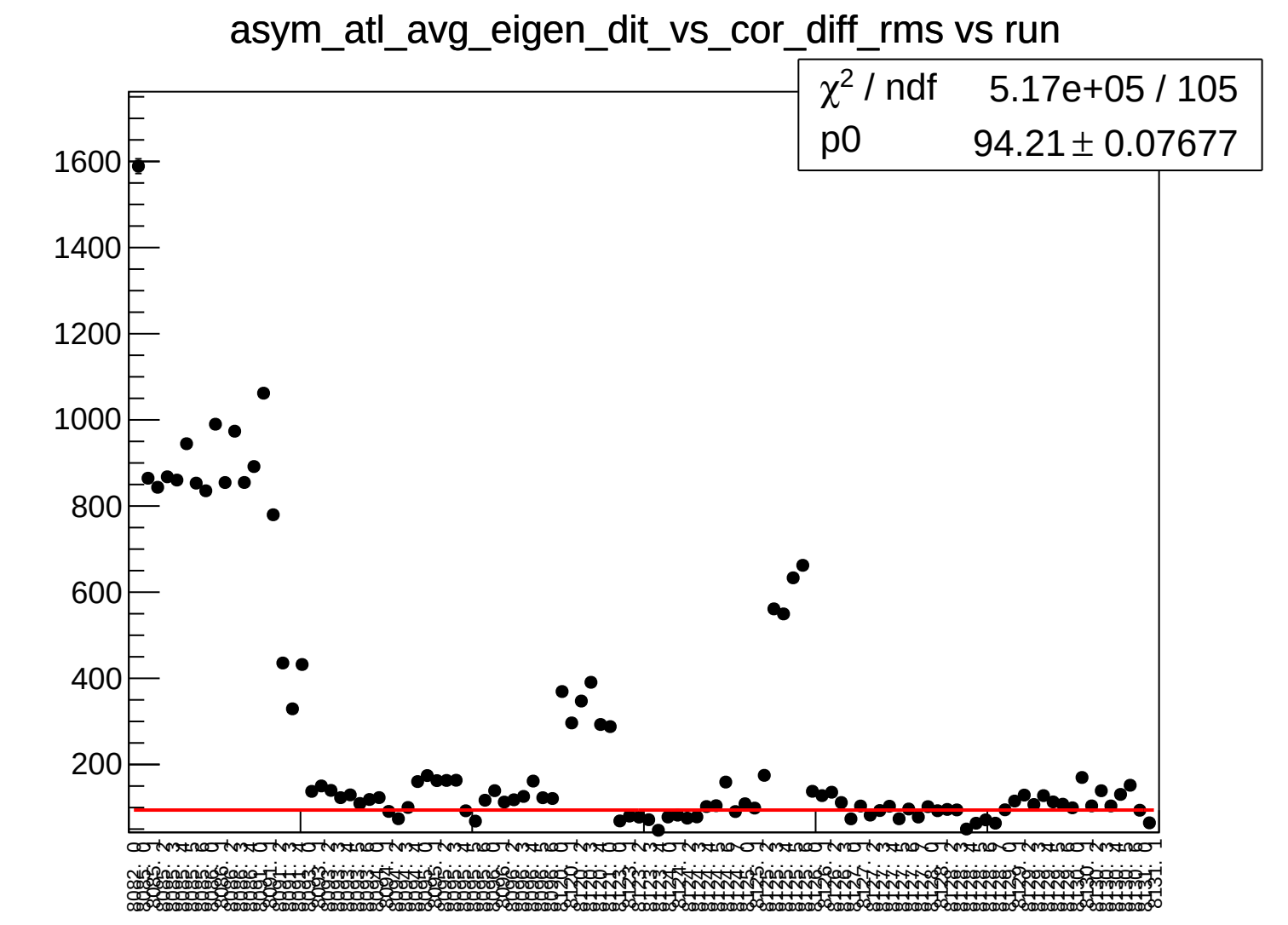

asym_atl_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.57 / 105
p0 −0.08318 ± 0.1086
20
0
−20
−40
−60
pull
Entries 106
Mean 114.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 106
Mean 0.02016
Std Dev 0.8877
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

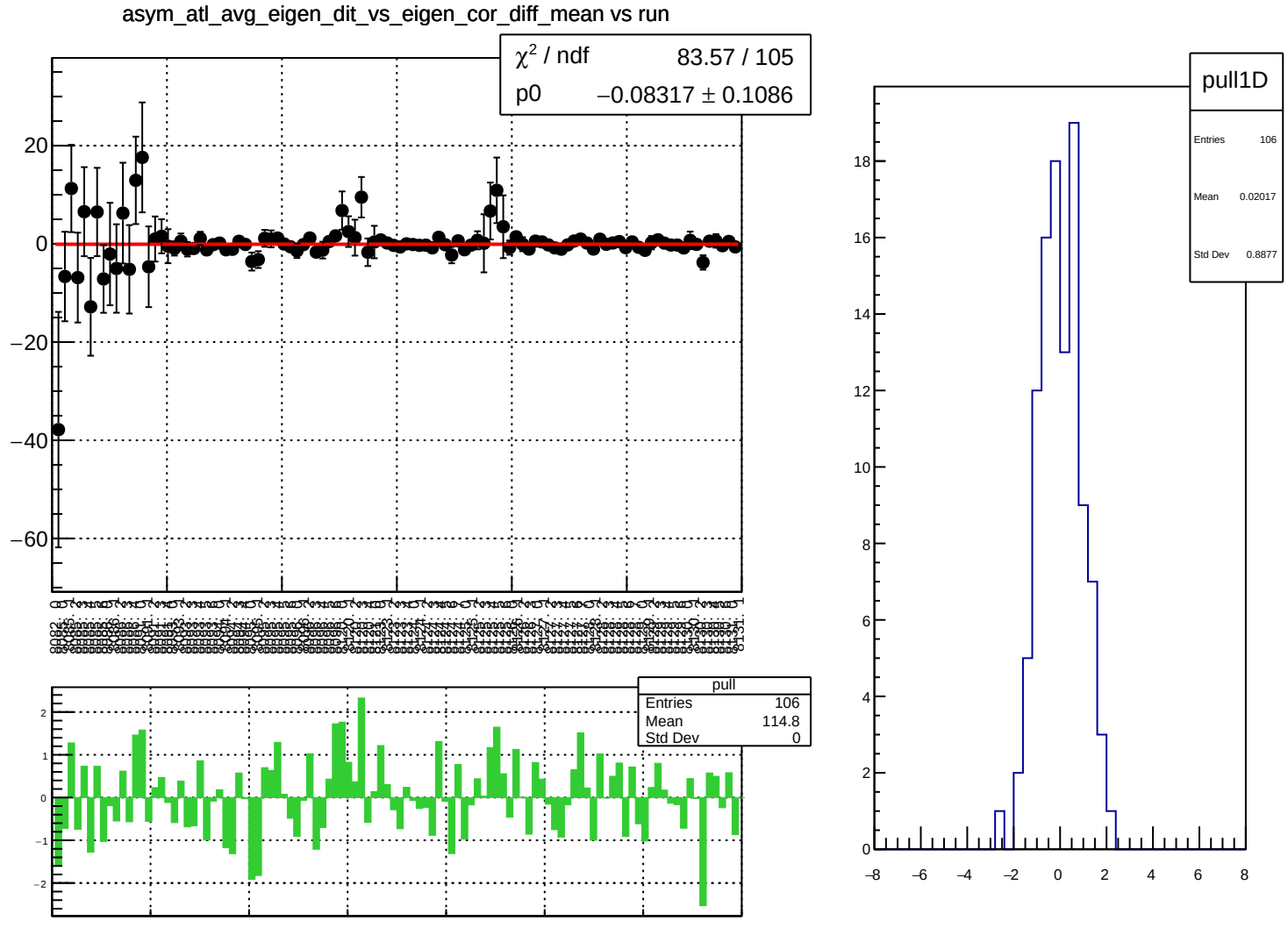

asym_atl_avg_dit_vs_eigen_cor_diff_rms vs run
$\chi^2$ / ndf 5.17e+05 / 105
p0 94.22 ± 0.07677
1600
1400
1200
1000
800
600
400
200

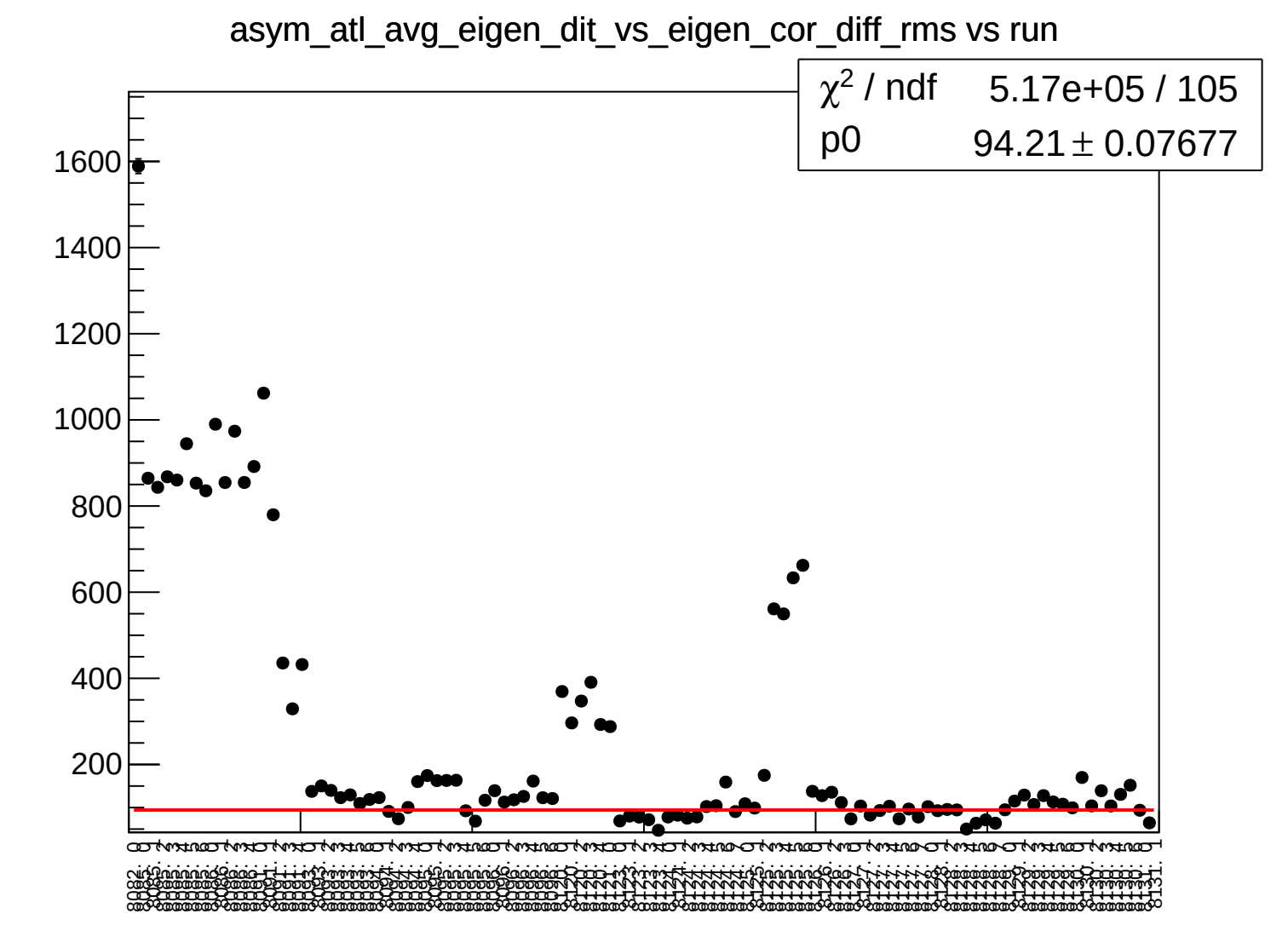

asym_atl_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.08 / 104
p0 6.13e−06 ± 1.028e−05
pull
Entries 105
Mean 25.44
Std Dev 0
pull1D
Entries 105
Mean 0.07306
Std Dev 0.9686

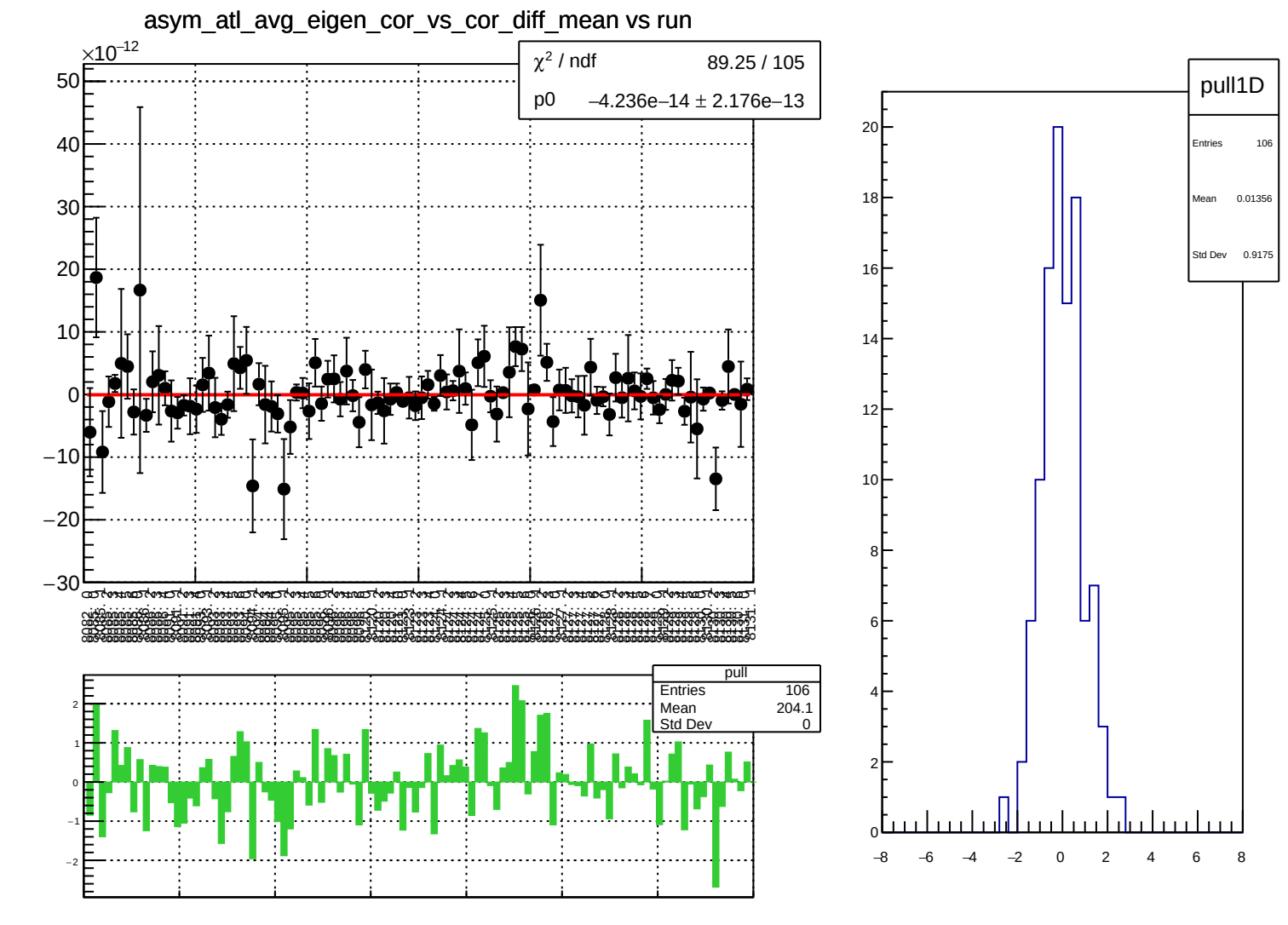

asym_atl_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.529e+05 / 104
p0 0.009369 ± 7.269e−06
0.03
0.025
0.02
0.015
0.01

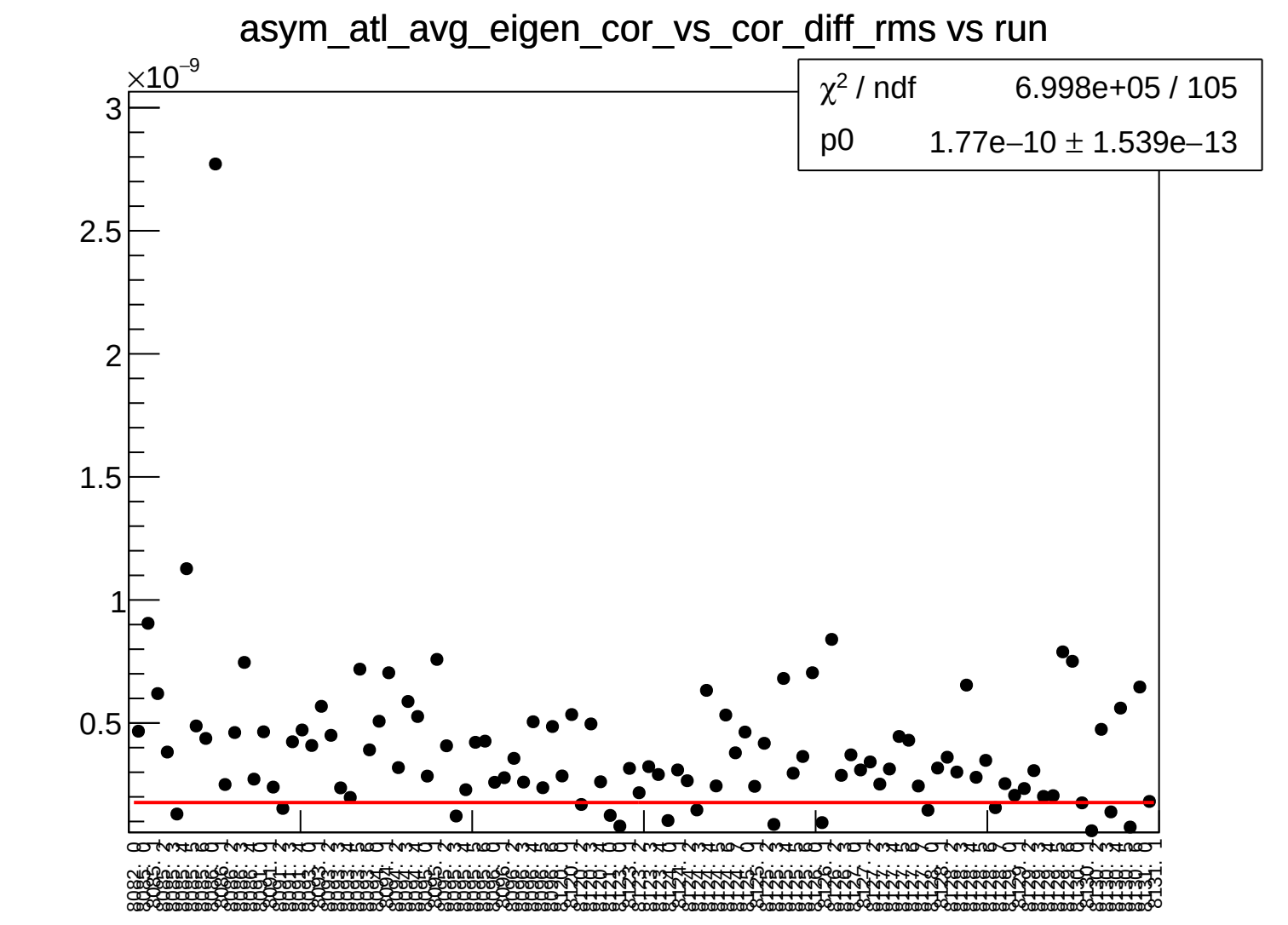

asym_atl_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.57 / 105
p0 −0.08317 ± 0.1086
pull
Entries 106
Mean 114.8
Std Dev 0
pull1D
Entries 106
Mean 0.02017
Std Dev 0.8877

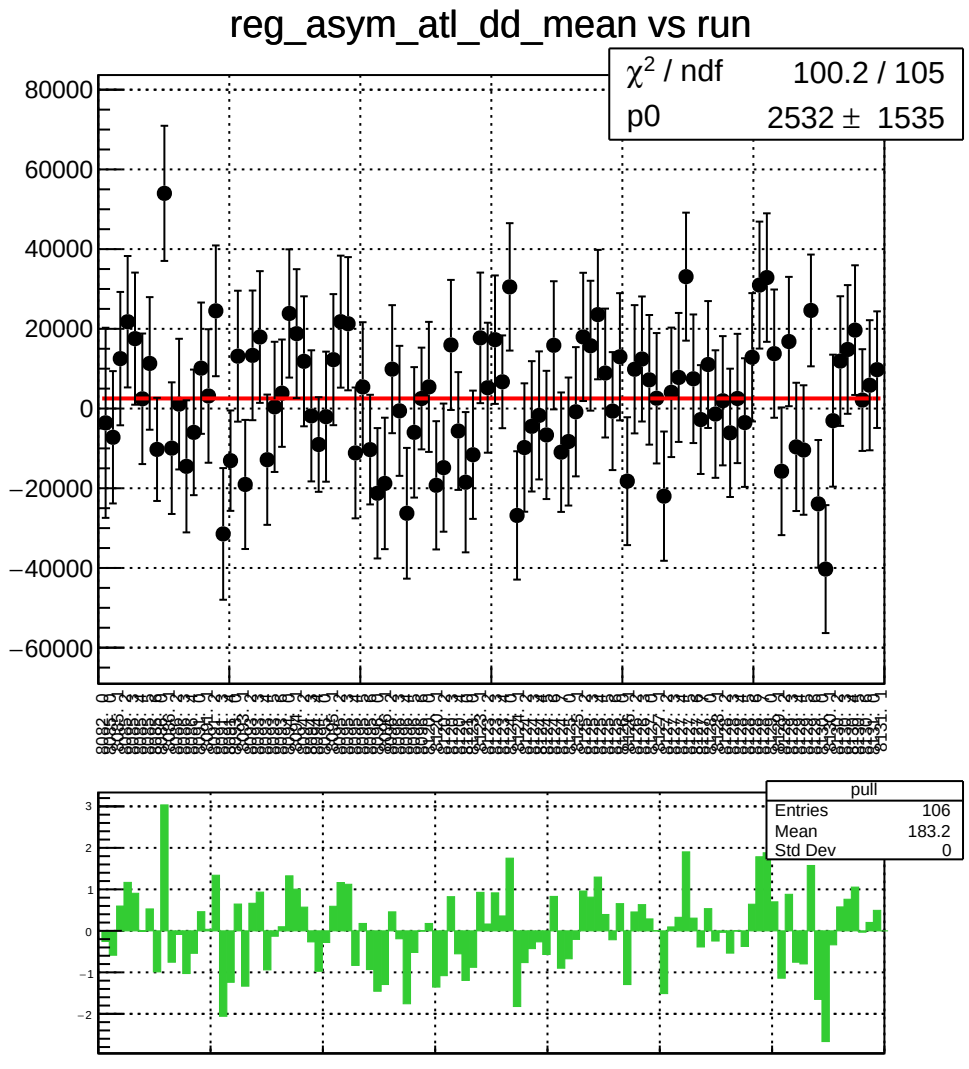

asym_atl_avg_eigen_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 5.17e+05 / 105
p0 94.21 ± 0.07677
1600
1400
1200
1000
800
600
400
200

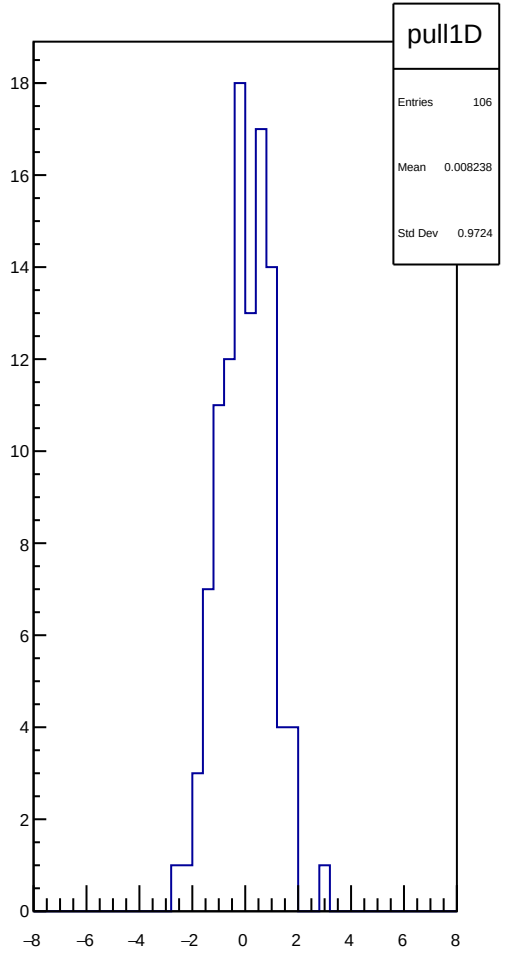

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.57 / 105
p0 −0.08317 ± 0.1086
20
0
−20
−40
−60
pull
Entries 106
Mean 114.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 106
Mean 0.02017
Std Dev 0.8877
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

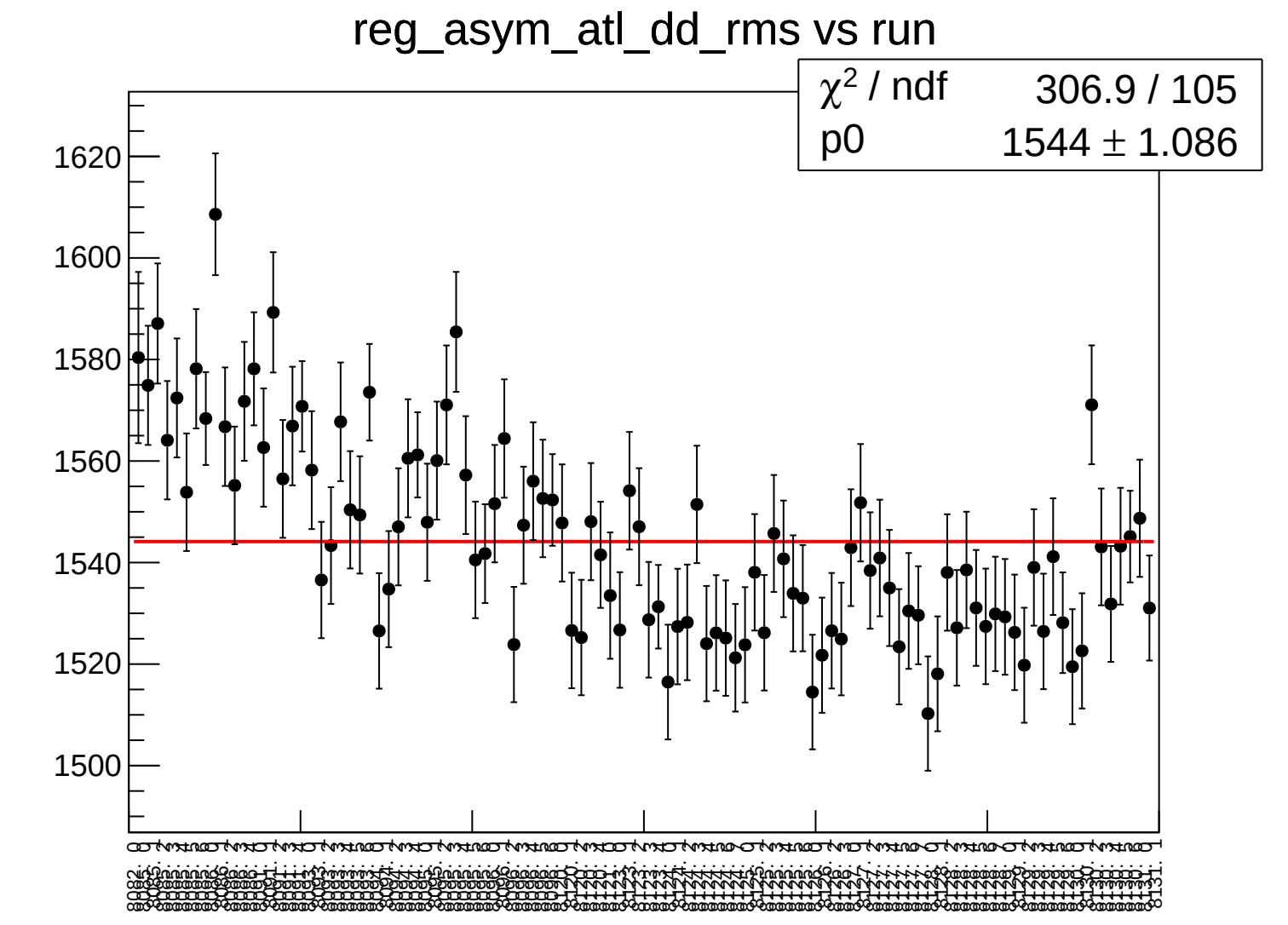

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
$\chi^2$ / ndf 5.17e+05 / 105
p0 94.21 ± 0.07677
1600
1400
1200
1000
800
600
400
200

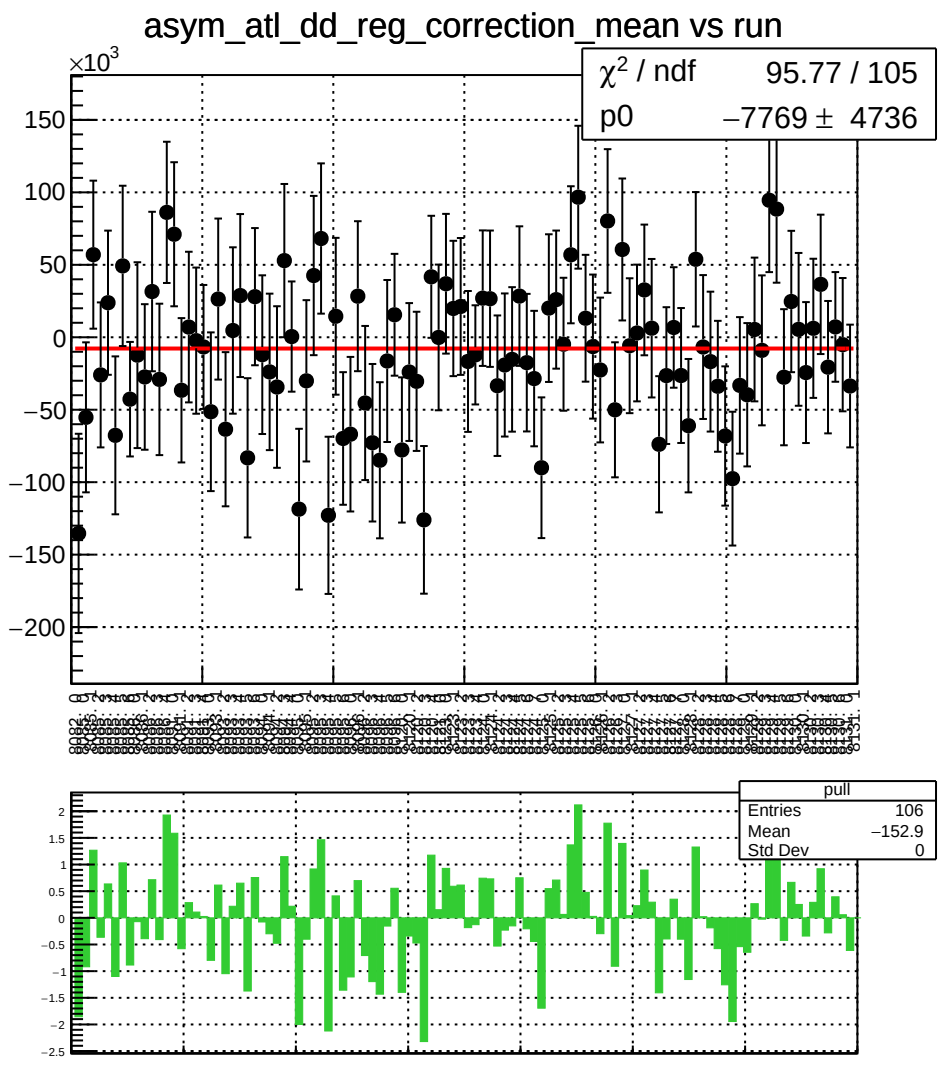

asym_atl_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.25 / 105
p0 −4.236e−14 ± 2.176e−13
pull
Entries 106
Mean 204.1
Std Dev 0
pull1D
Entries 106
Mean 0.01356
Std Dev 0.9175

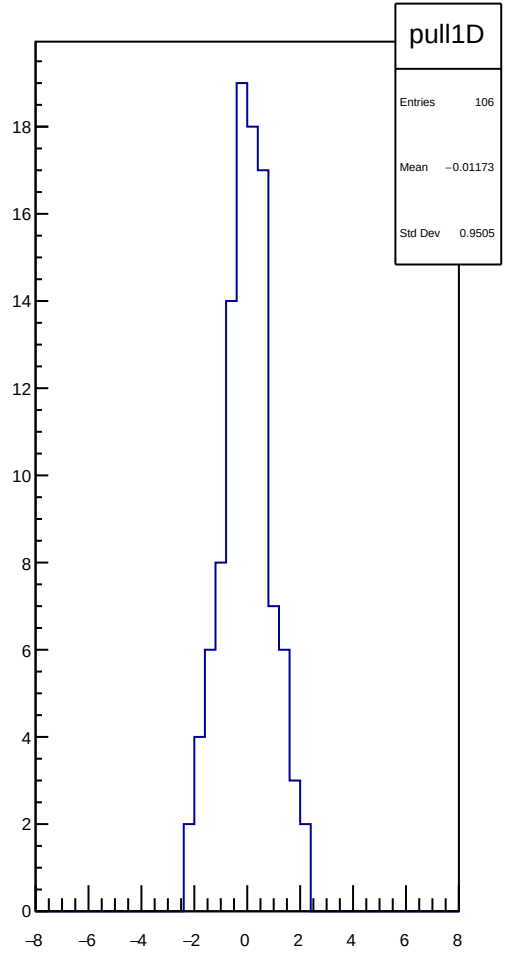

asym_atl_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
3
2.5
2
1.5
1
0.5
χ² / ndf 6.998e+05 / 105
p0 1.77e−10 ± 1.539e−13

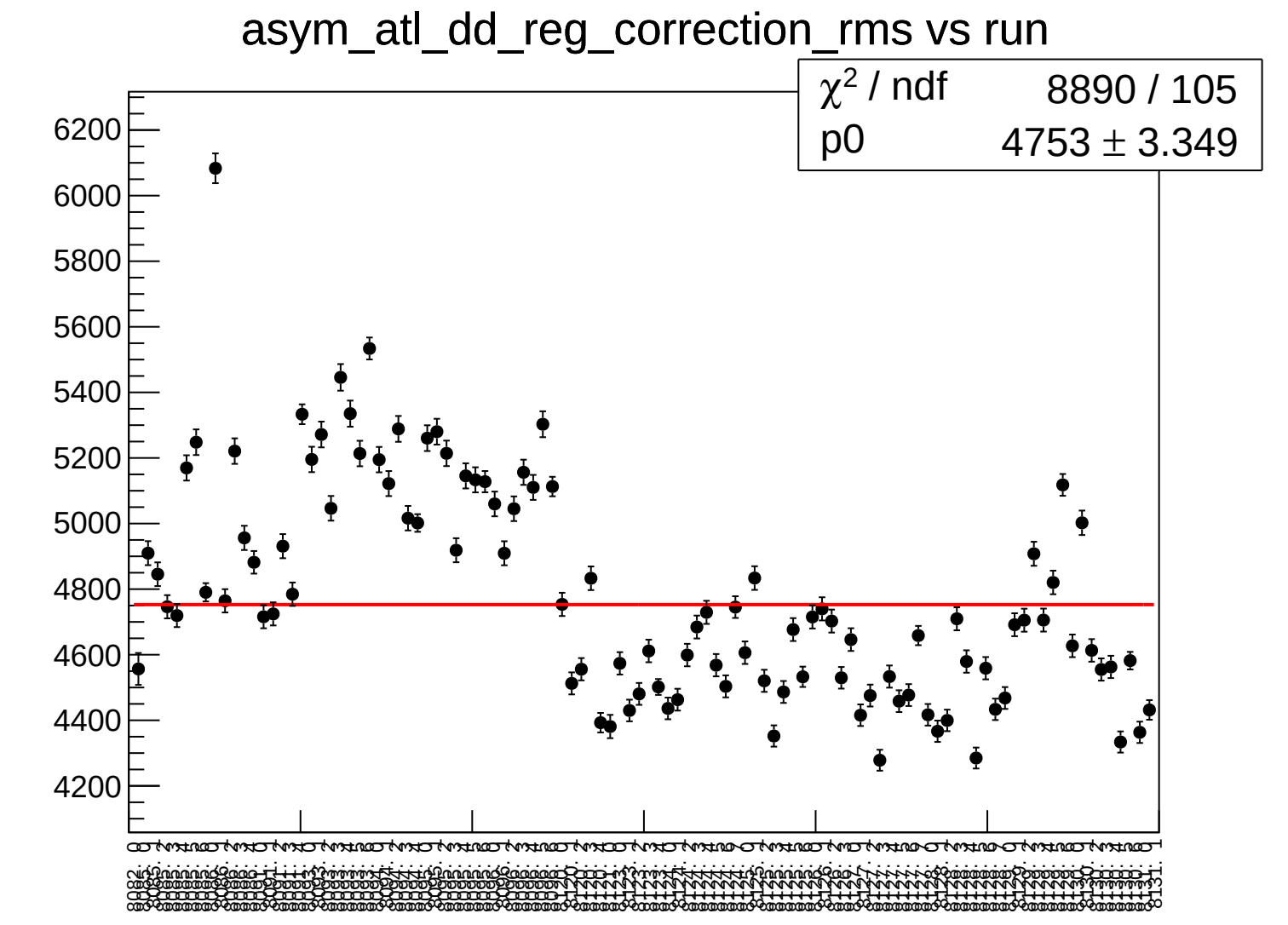

reg_asym_atl_dd_mean vs run
χ² / ndf 100.2 / 105
p0 2532 ± 1535
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean 183.2
Std Dev 0
3
2
1
0
−1
−2

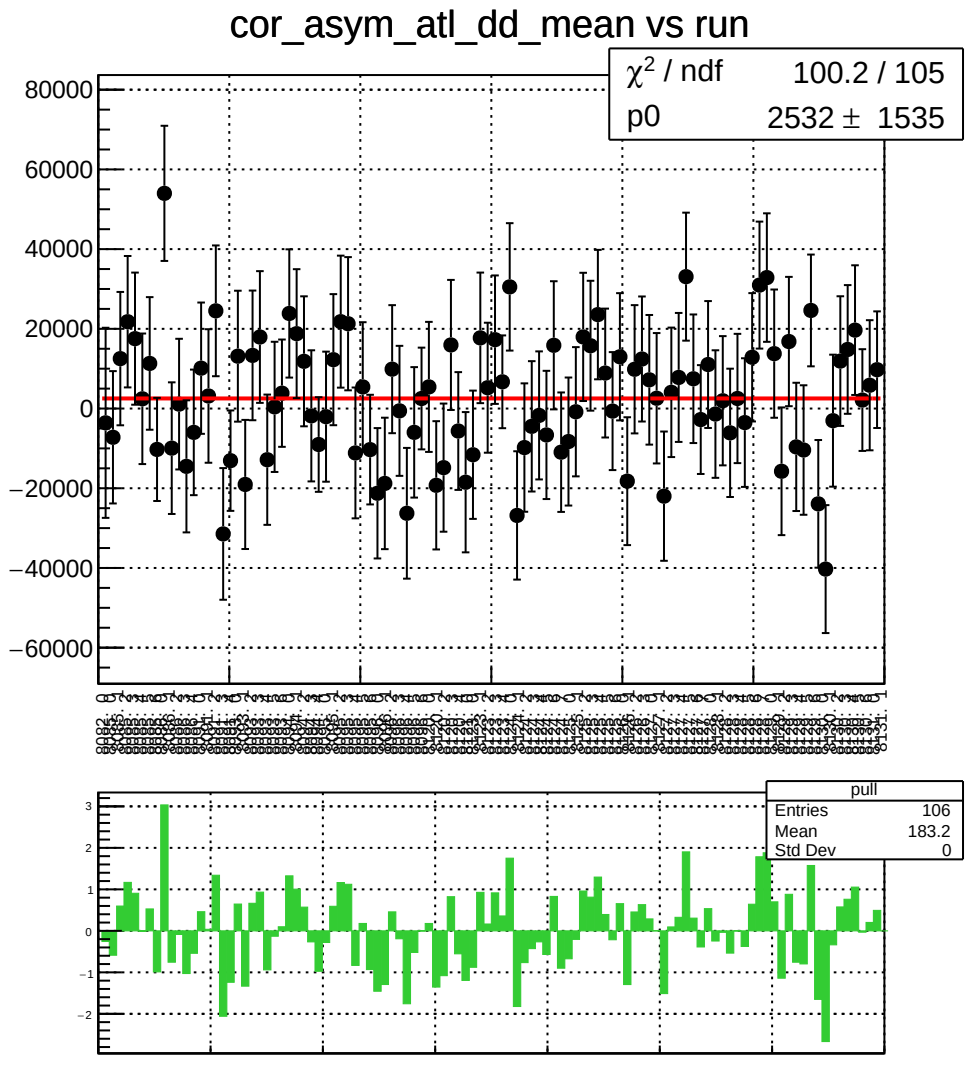

pull1D
Entries 106
Mean 0.008238
Std Dev 0.9724
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

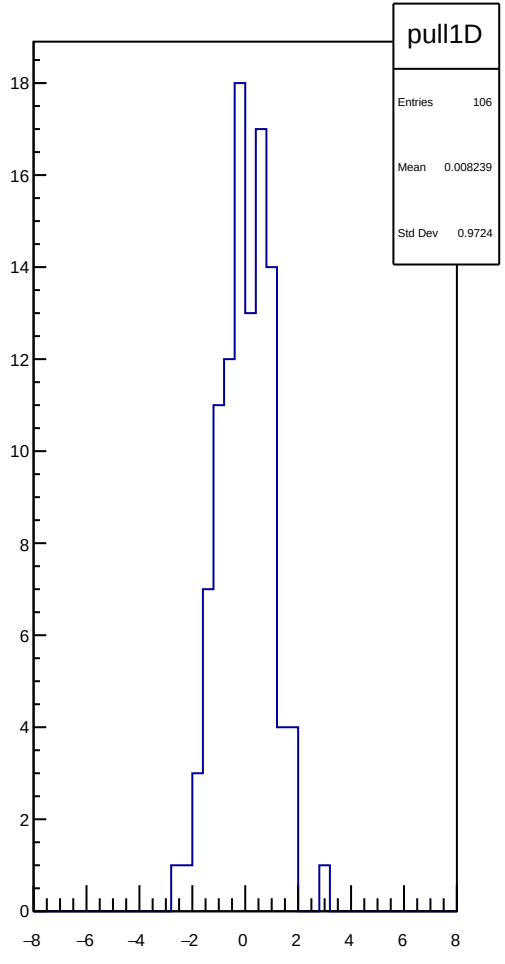

reg_asym_atl_dd_rms vs run
χ² / ndf 306.9 / 105
p0 1544 ± 1.086
1620
1600
1580
1560
1540
1520
1500

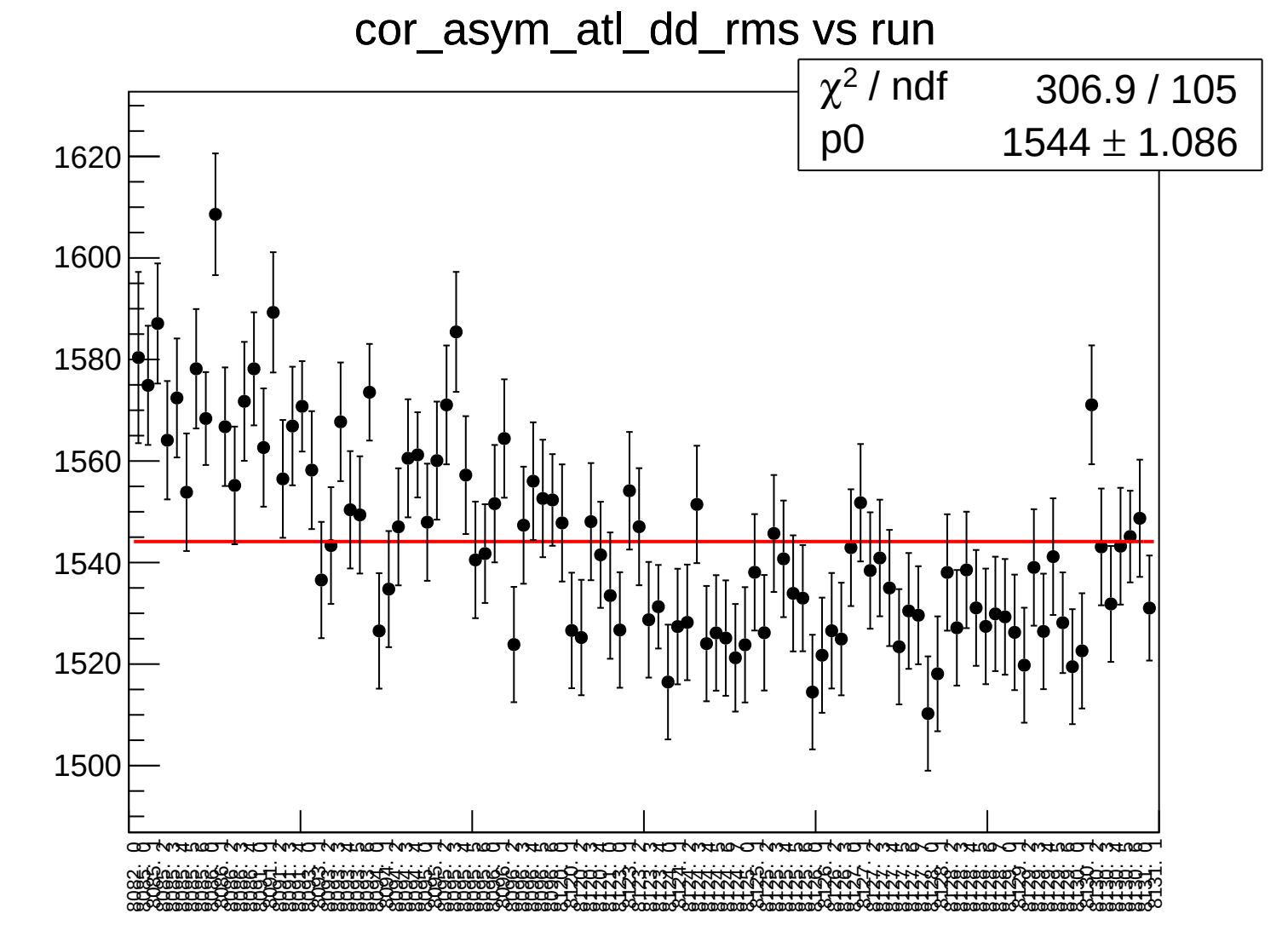

asym_atl_dd_reg_correction_mean vs run
×10^3
χ² / ndf 95.77 / 105
p0 −7769 ± 4736
150
100
50
0
−50
−100
−150
−200
pull
Entries 106
Mean −152.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

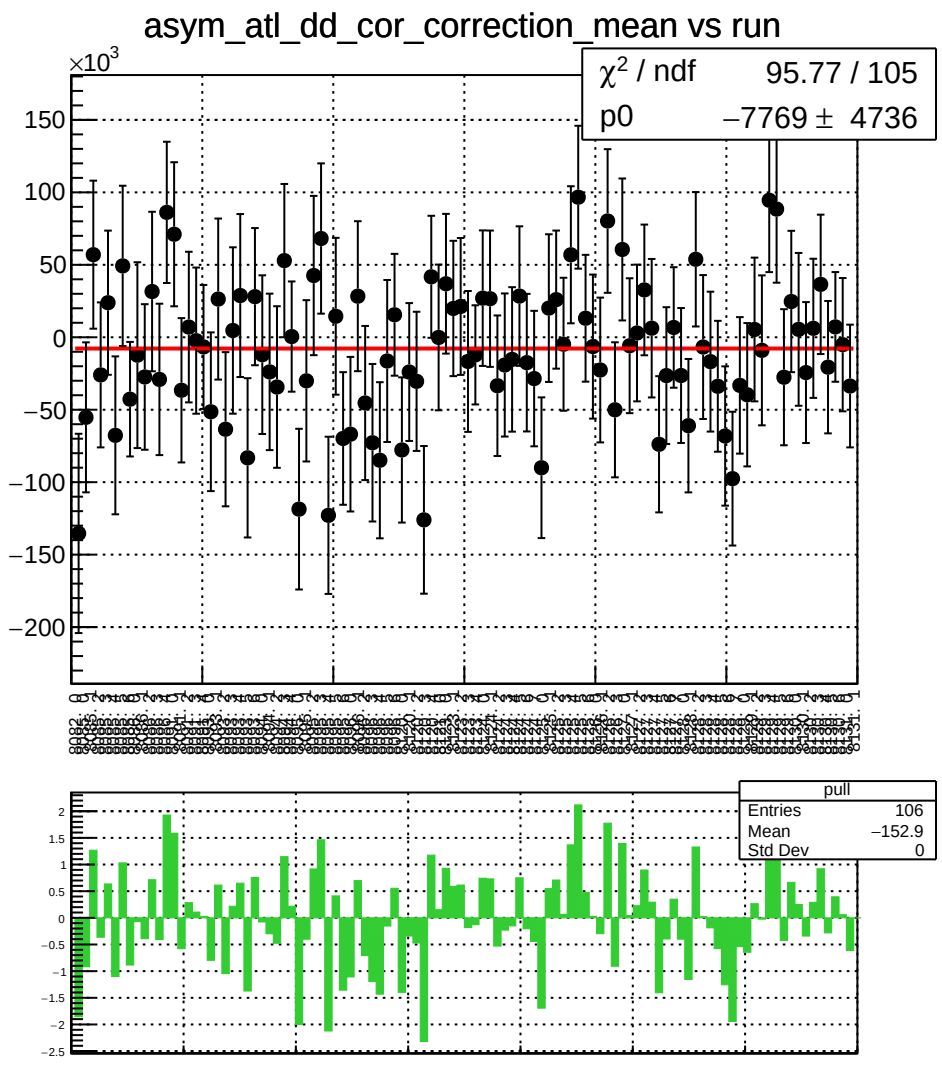

pull1D
Entries 106
Mean −0.01173
Std Dev 0.9505
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

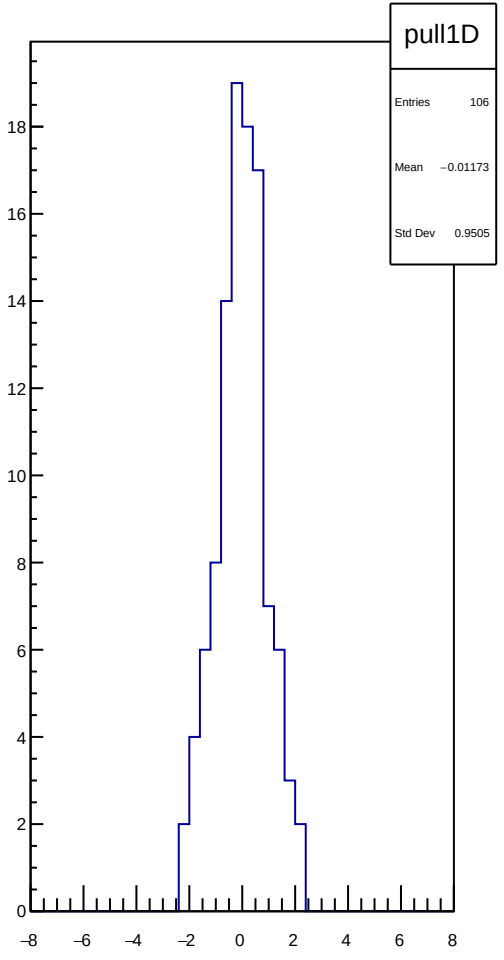

asym_atl_dd_reg_correction_rms vs run
χ² / ndf 8890 / 105
p0 4753 ± 3.349
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200

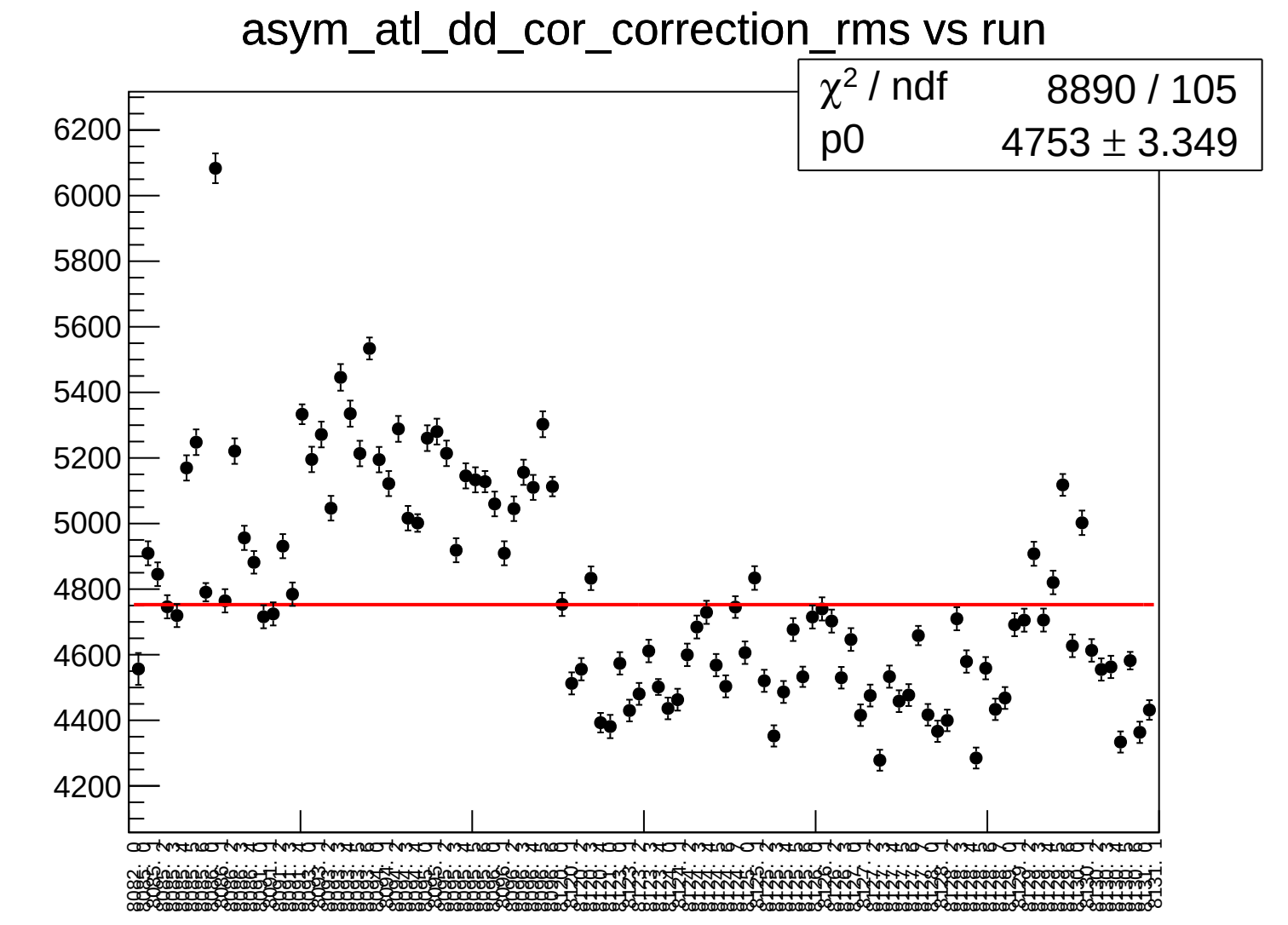

cor_asym_atl_dd_mean vs run
χ² / ndf 100.2 / 105
p0 2532 ± 1535
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean 183.2
Std Dev 0
3
2
1
0
−1
−2

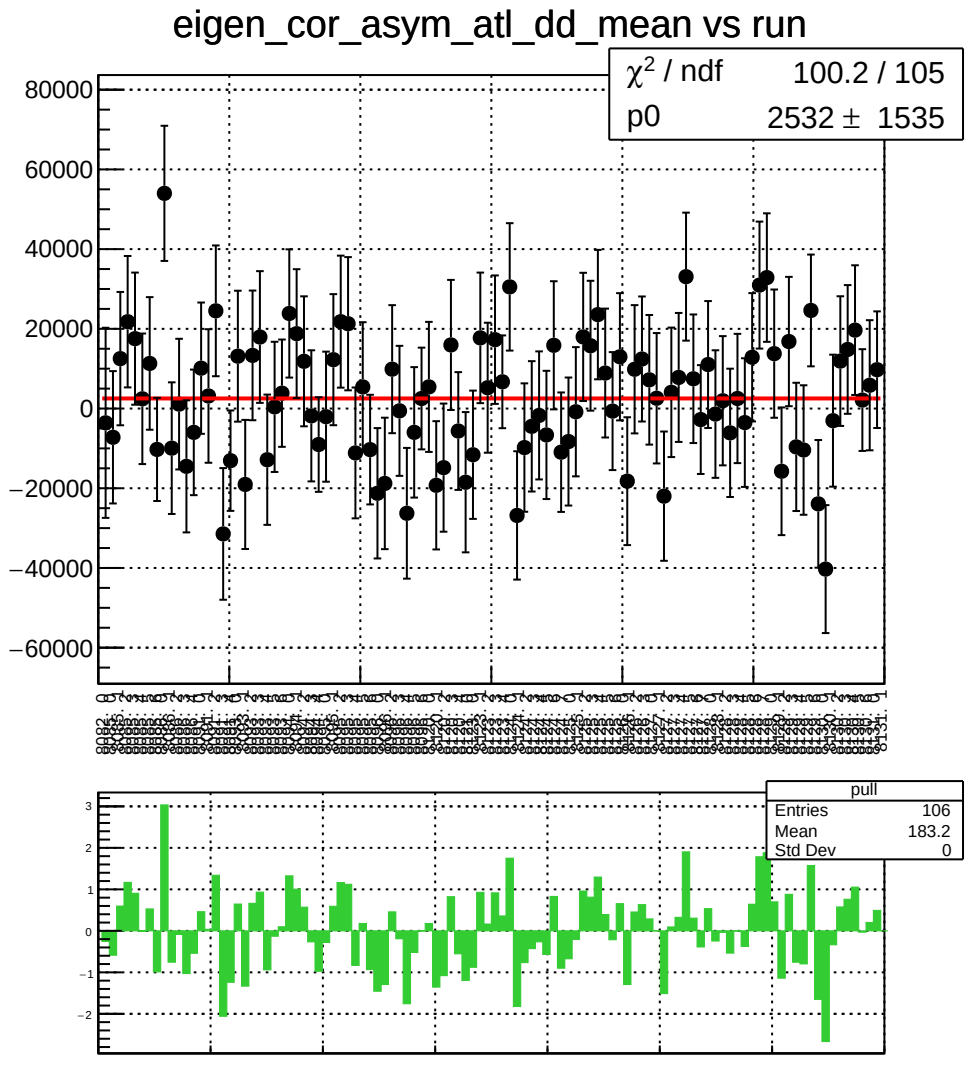

pull1D
Entries 106
Mean 0.008239
Std Dev 0.9724
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

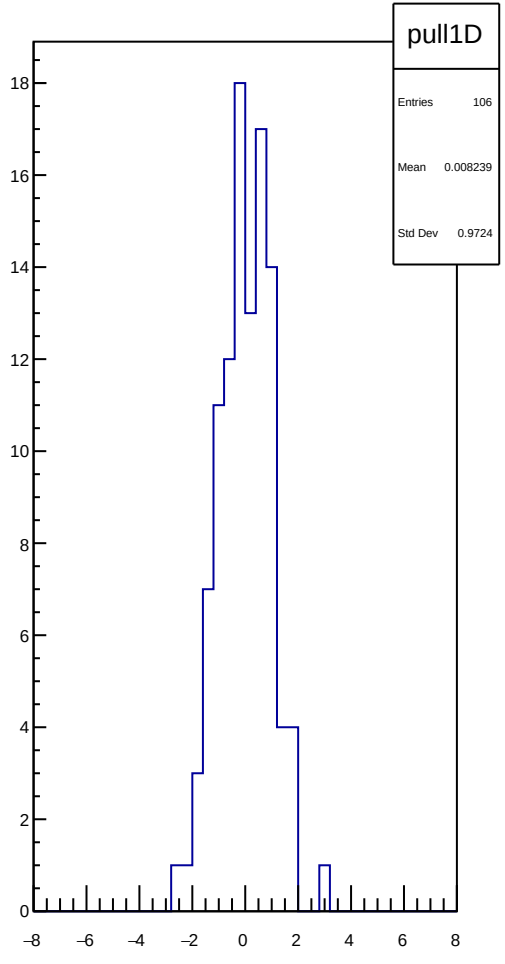

cor_asym_atl_dd_rms vs run
$\chi^2$ / ndf 306.9 / 105
p0 1544 ± 1.086
1620
1600
1580
1560
1540
1520
1500

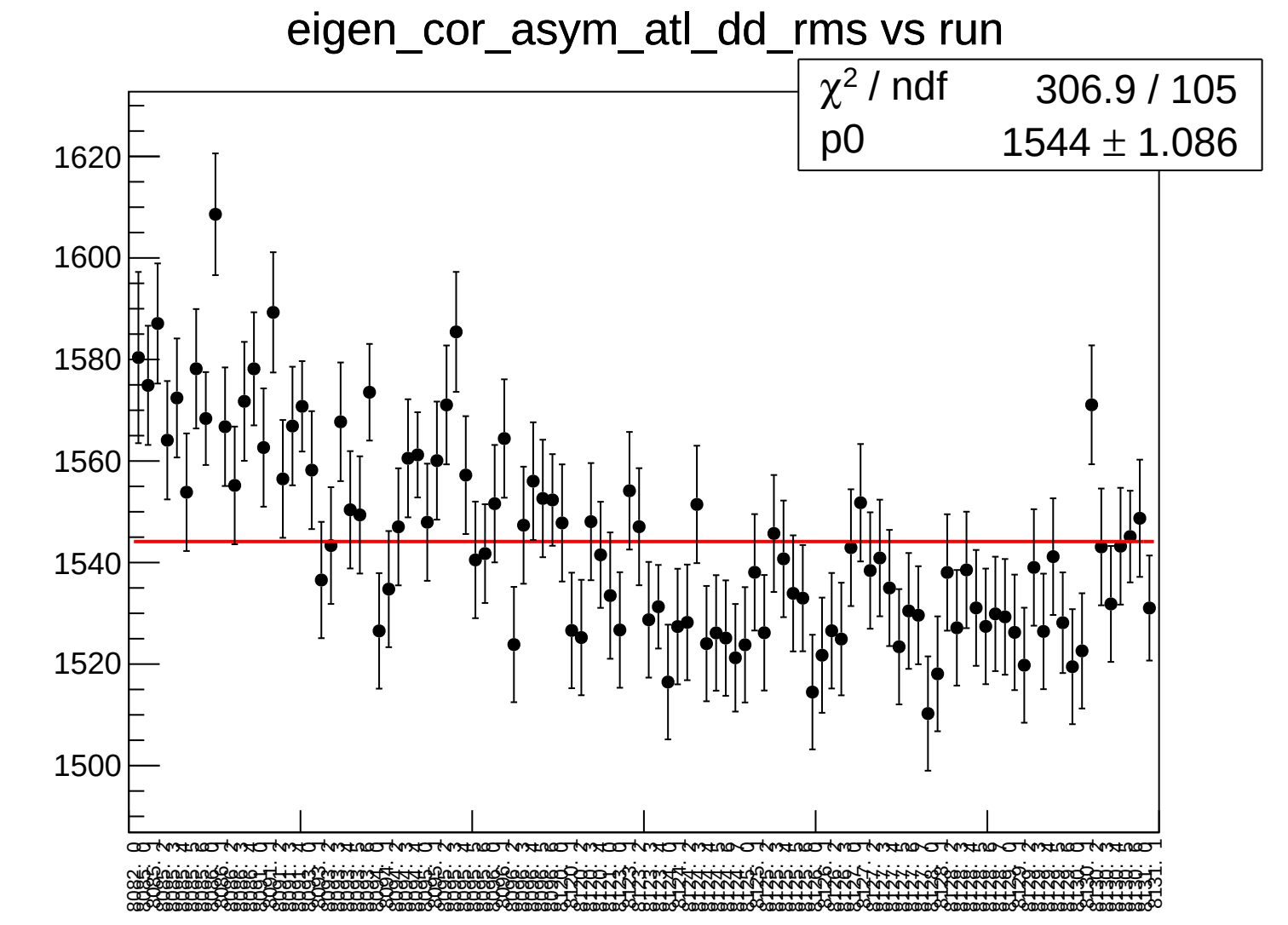

asym_atl_dd_cor_correction_mean vs run
×10^3
χ² / ndf 95.77 / 105
p0 −7769 ± 4736
150
100
50
0
−50
−100
−150
−200
pull
Entries 106
Mean −152.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

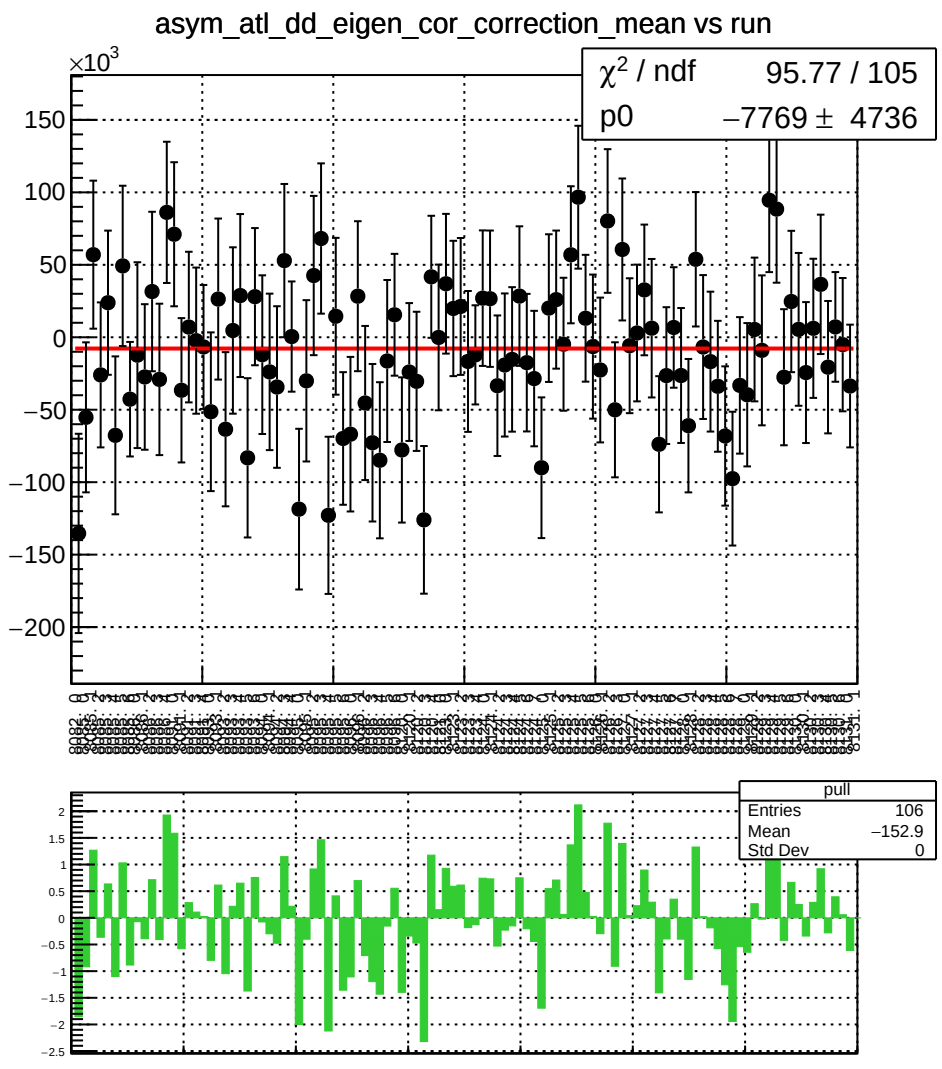

pull1D
Entries 106
Mean −0.01173
Std Dev 0.9505
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

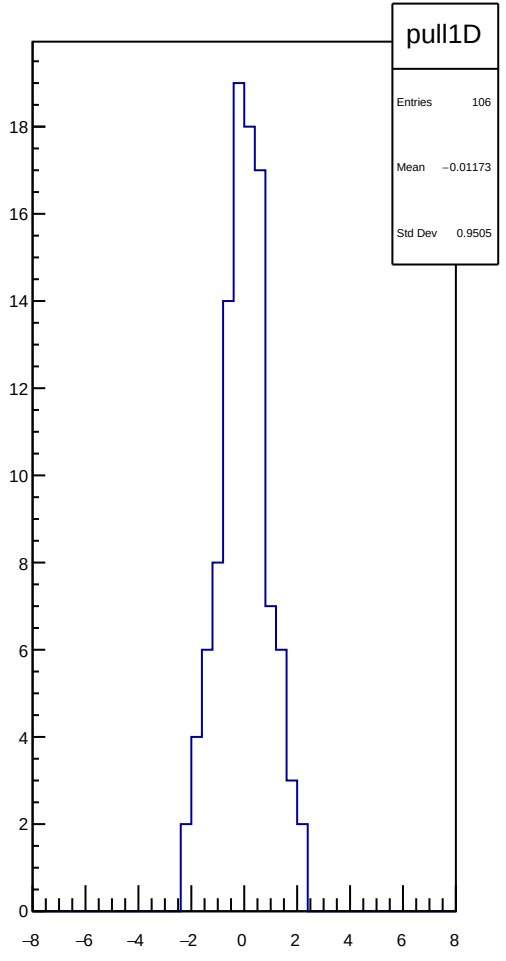

asym_atl_dd_cor_correction_rms vs run
χ² / ndf 8890 / 105
p0 4753 ± 3.349
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200

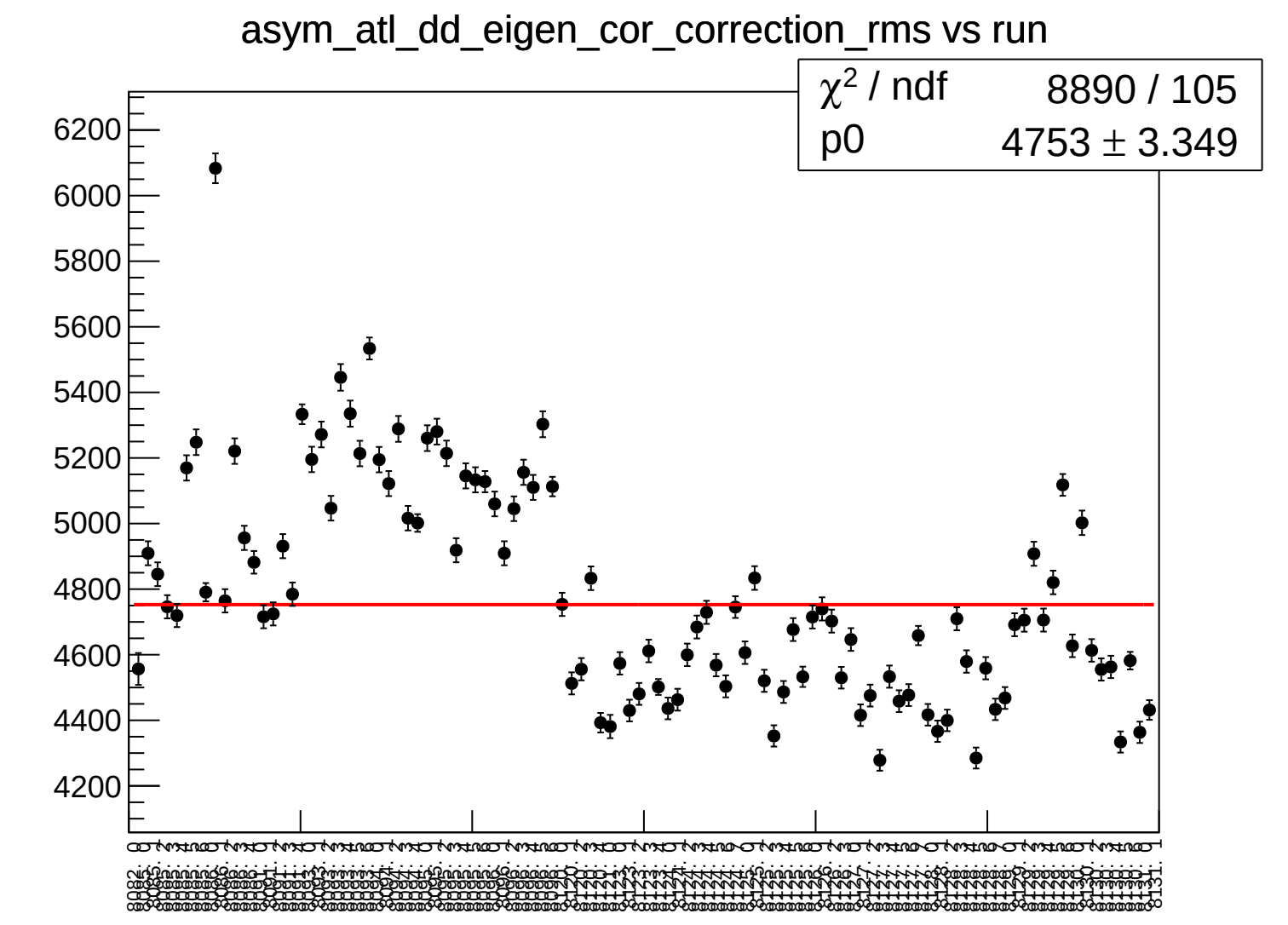

eigen_cor_asym_atl_dd_mean vs run
χ² / ndf 100.2 / 105
p0 2532 ± 1535
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean 183.2
Std Dev 0
3
2
1
0
−1
−2

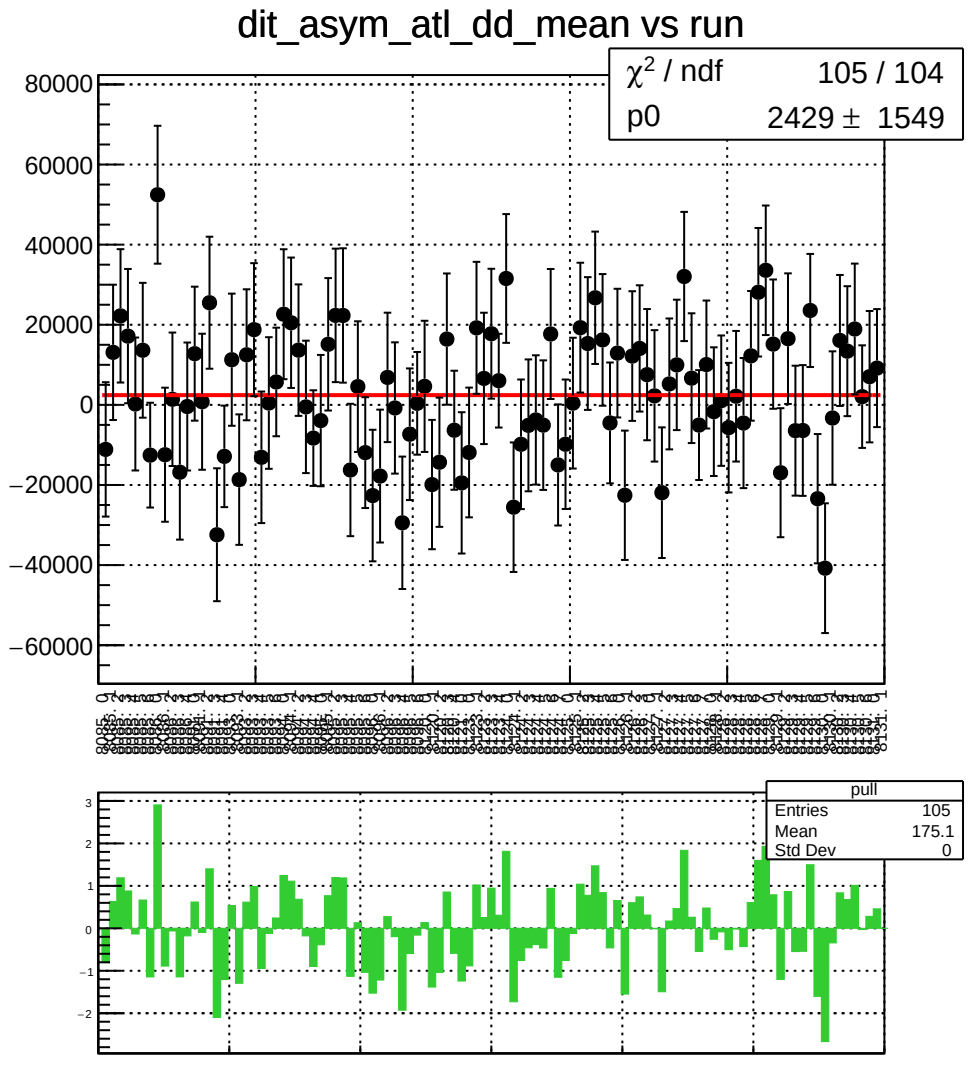

pull1D
Entries 106
Mean 0.008239
Std Dev 0.9724
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

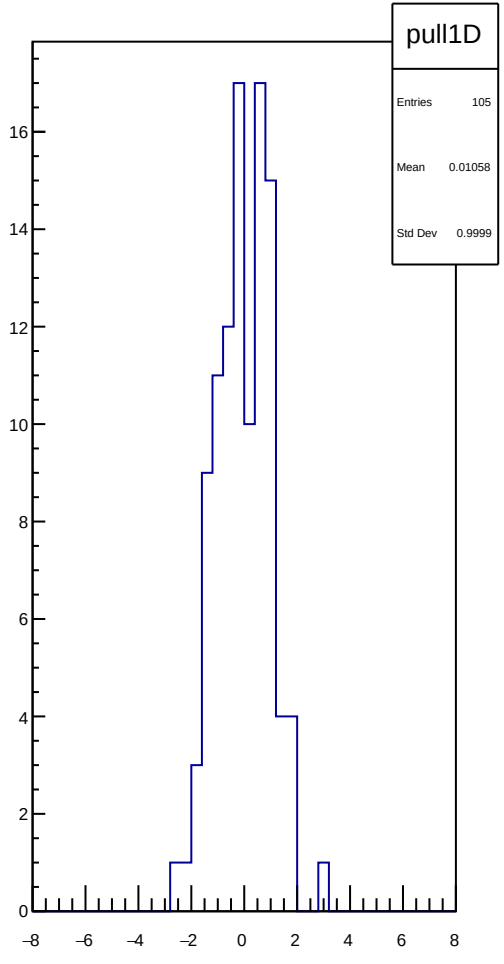

eigen_cor_asym_atl_dd_rms vs run
$\chi^2$ / ndf 306.9 / 105
p0 1544 ± 1.086
1620
1600
1580
1560
1540
1520
1500

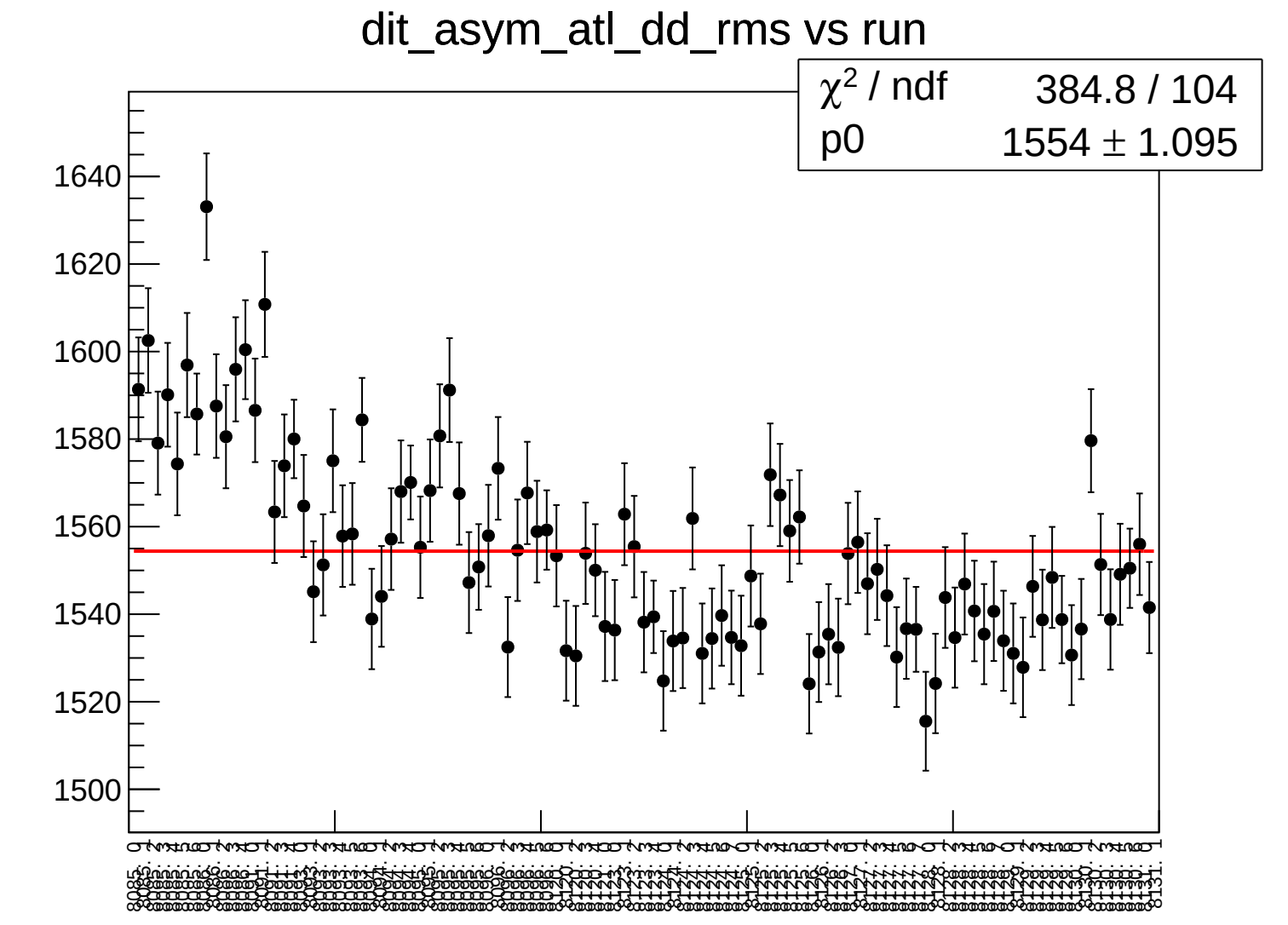

asym_atl_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 95.77 / 105
p0 −7769 ± 4736
150
100
50
0
−50
−100
−150
−200
pull
Entries 106
Mean −152.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

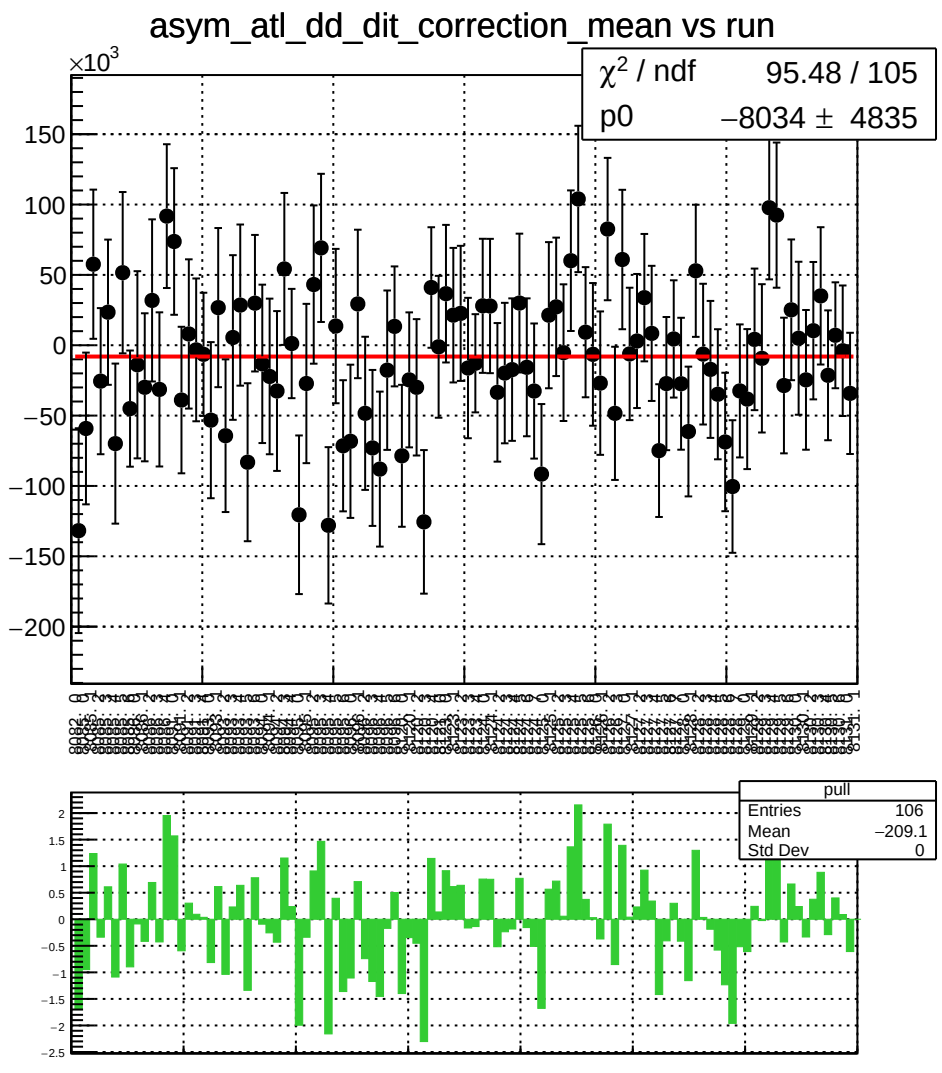

pull1D
Entries 106
Mean −0.01173
Std Dev 0.9505
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

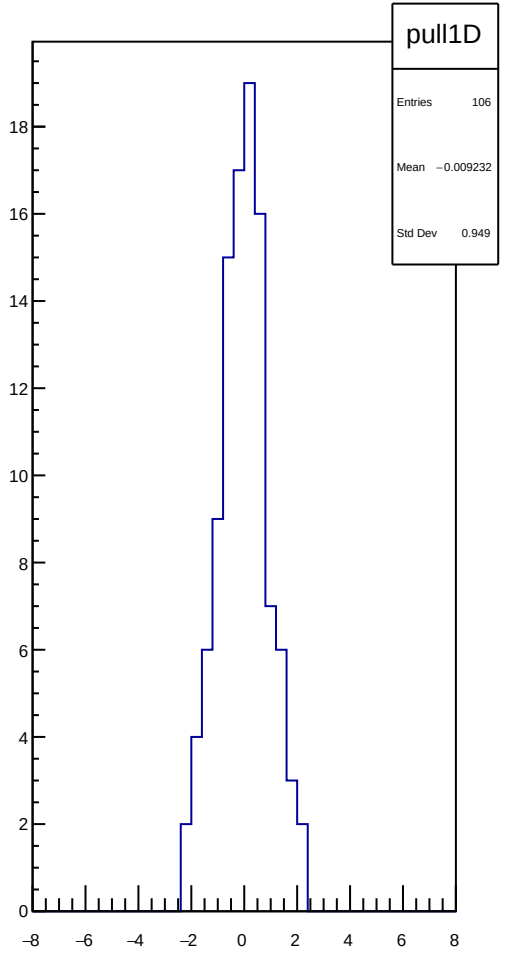

asym_atl_dd_eigen_cor_correction_rms vs run
χ² / ndf 8890 / 105
p0 4753 ± 3.349
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200

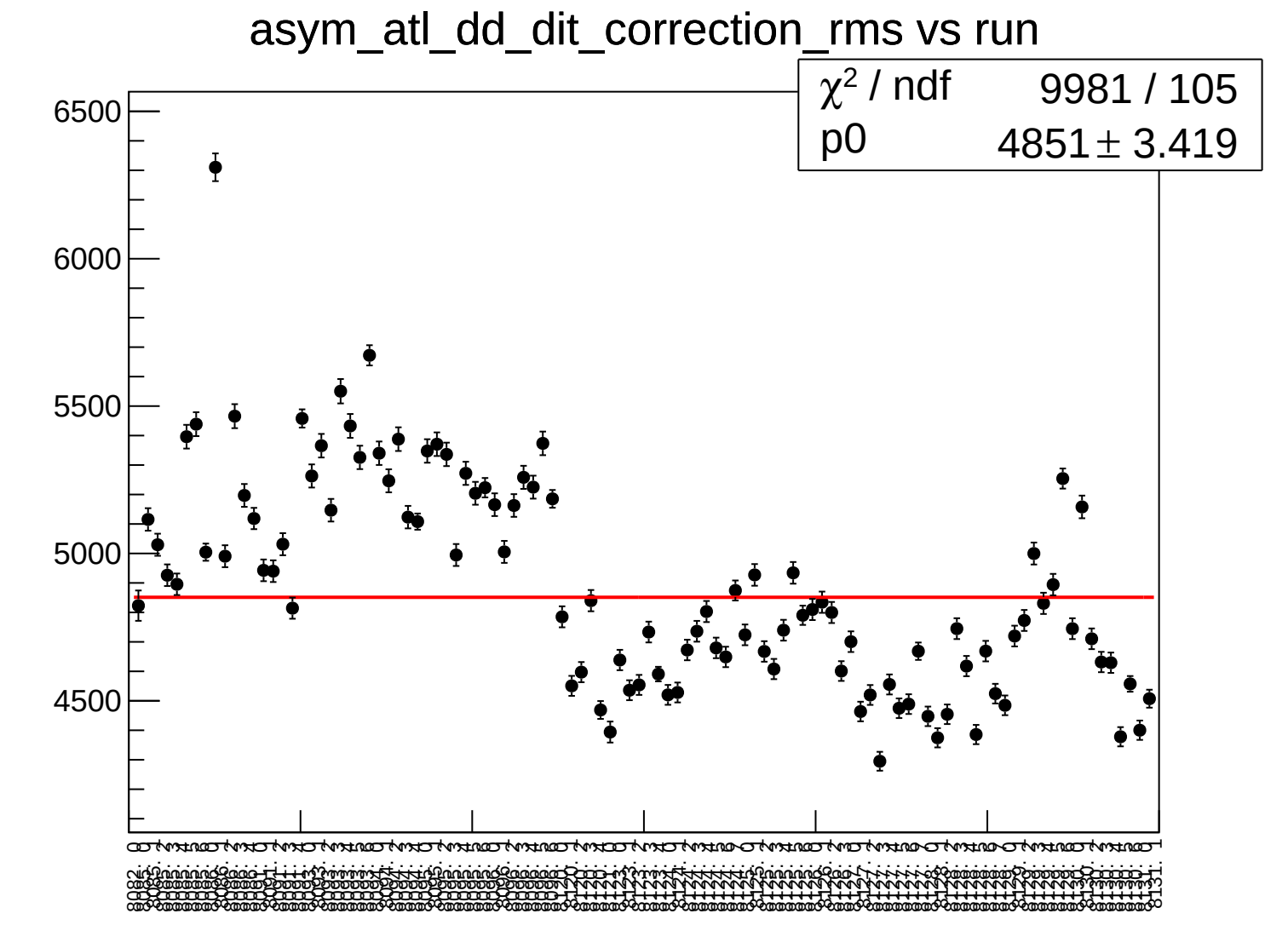

dit_asym_atl_dd_mean vs run
χ² / ndf 105 / 104
p0 2429 ± 1549
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean 175.1
Std Dev 0
3
2
1
0
−1
−2

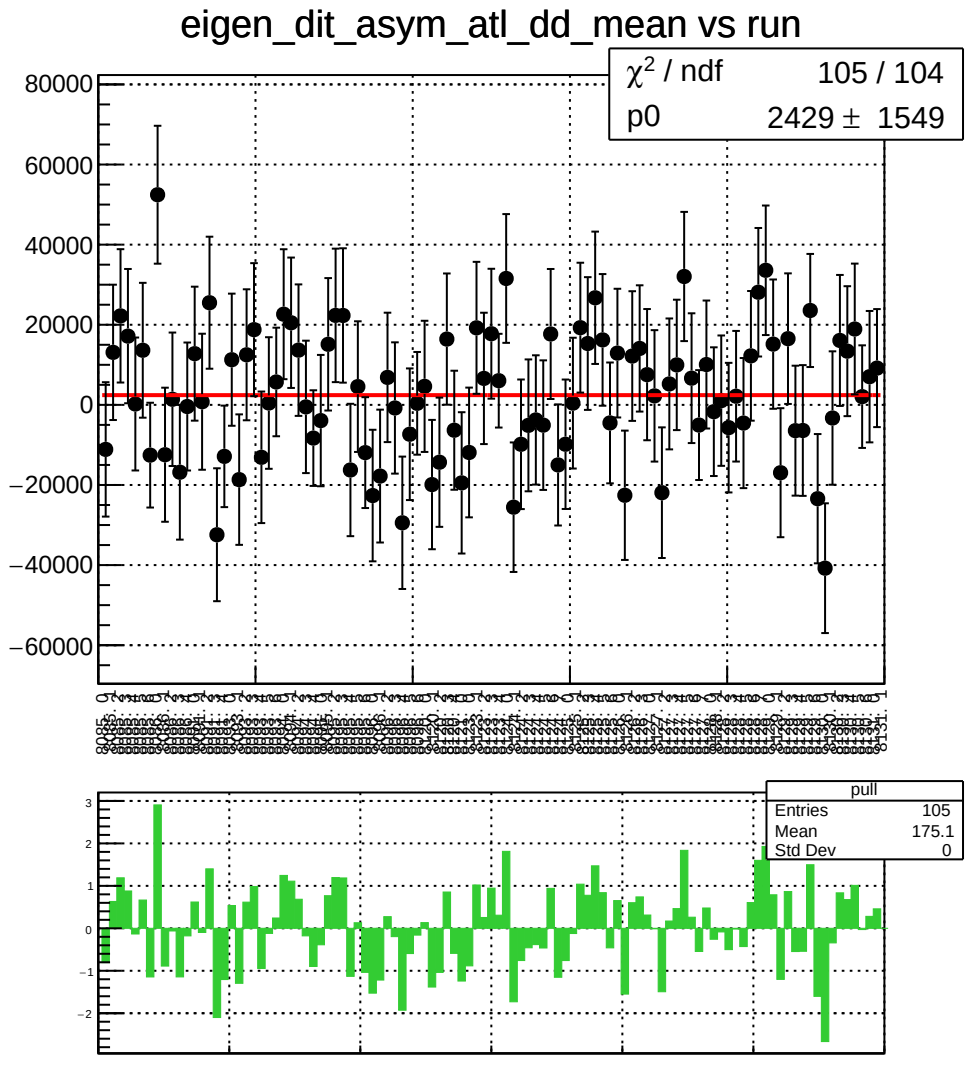

pull1D
Entries 105
Mean 0.01058
Std Dev 0.9999
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

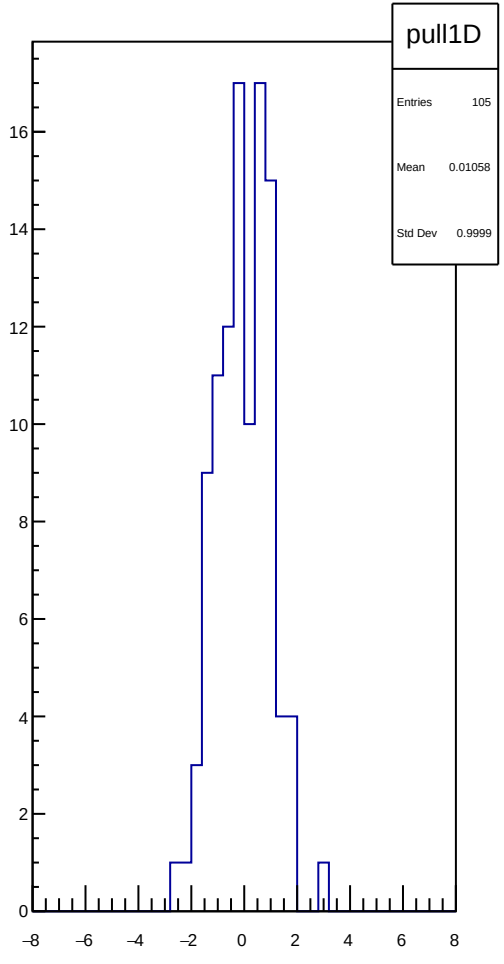

dit_asym_atl_dd_rms vs run
$\chi^2$ / ndf 384.8 / 104
p0 1554 ± 1.095
1640
1620
1600
1580
1560
1540
1520
1500


asym_atl_dd_dit_correction_mean vs run
×10^3
χ² / ndf 95.48 / 105
p0 −8034 ± 4835
150
100
50
0
−50
−100
−150
−200
pull
Entries 106
Mean −209.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

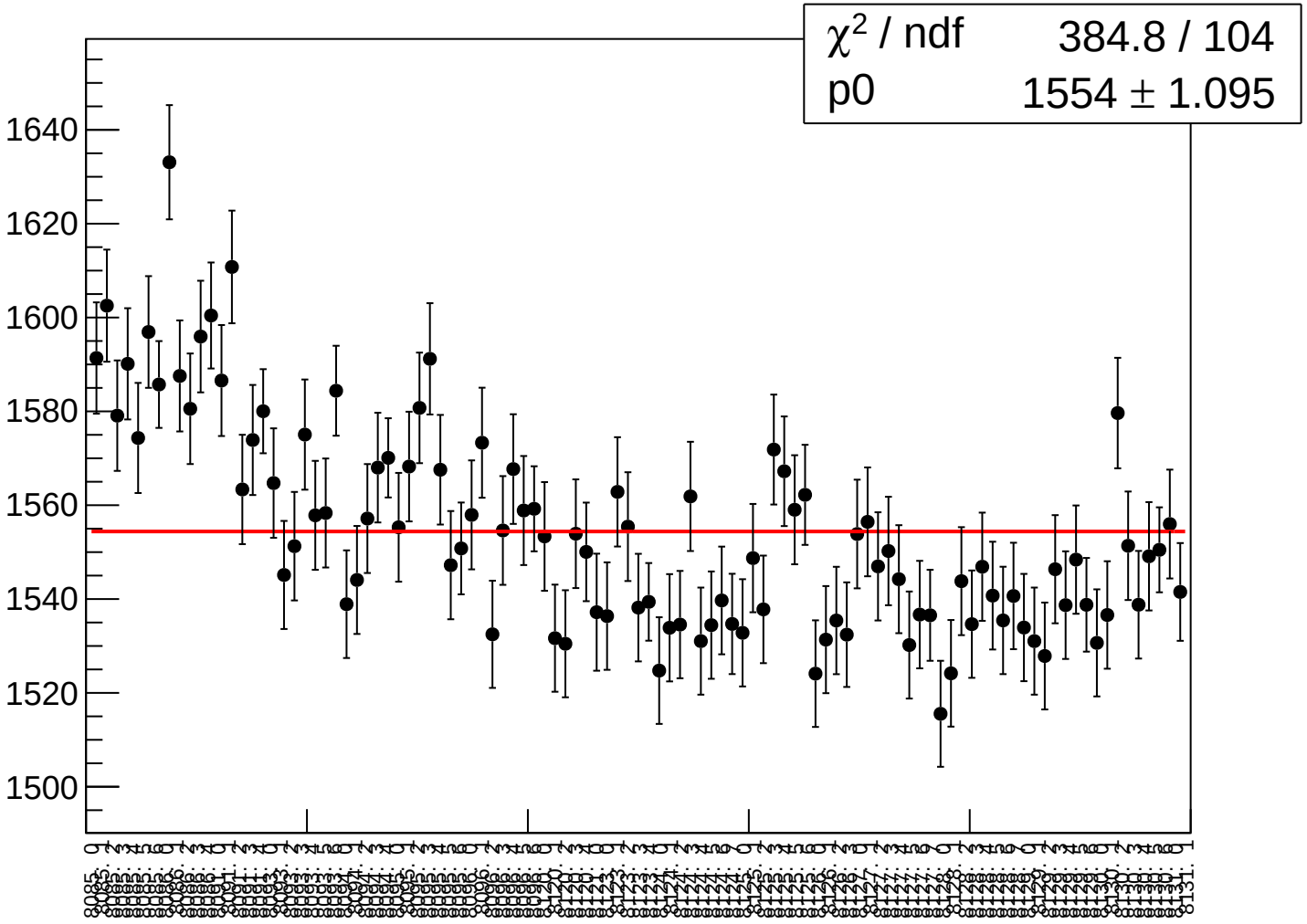

pull1D
Entries 106
Mean −0.009232
Std Dev 0.949
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

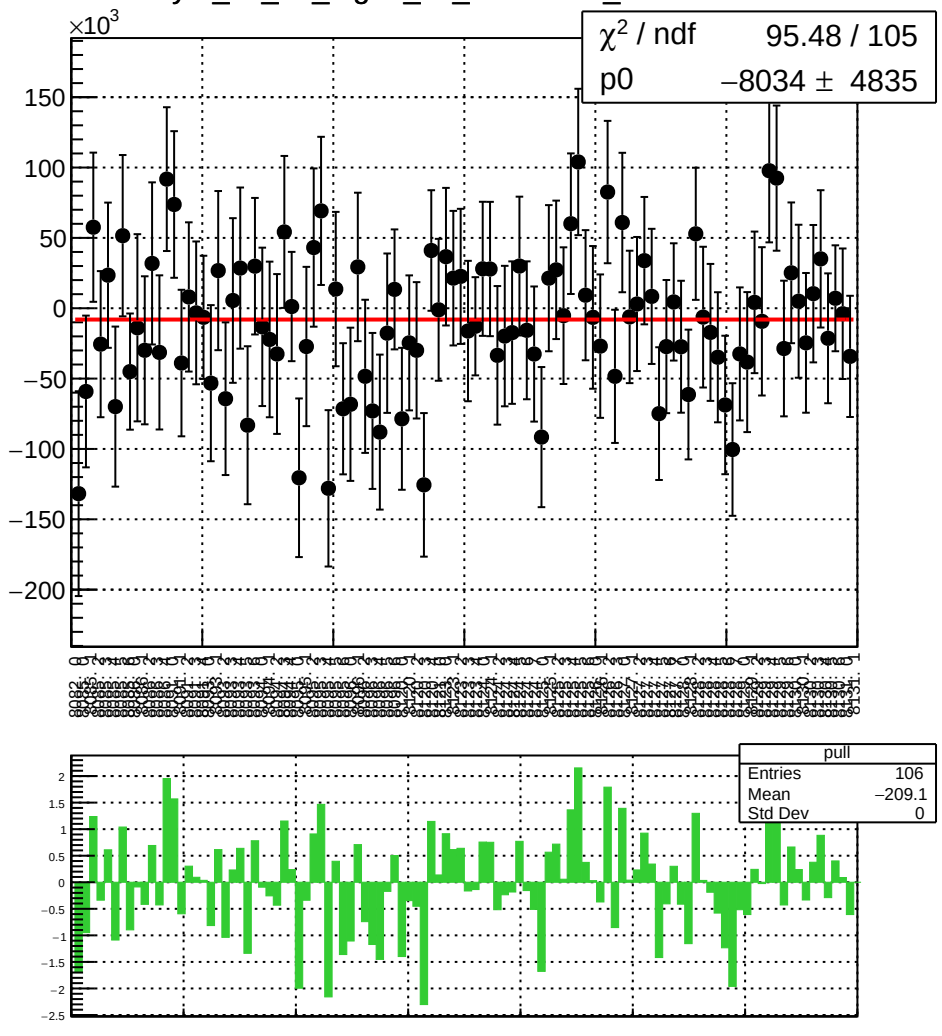

asym_atl_dd_dit_correction_rms vs run
χ² / ndf 9981 / 105
p0 4851 ± 3.419
6500
6000
5500
5000
4500

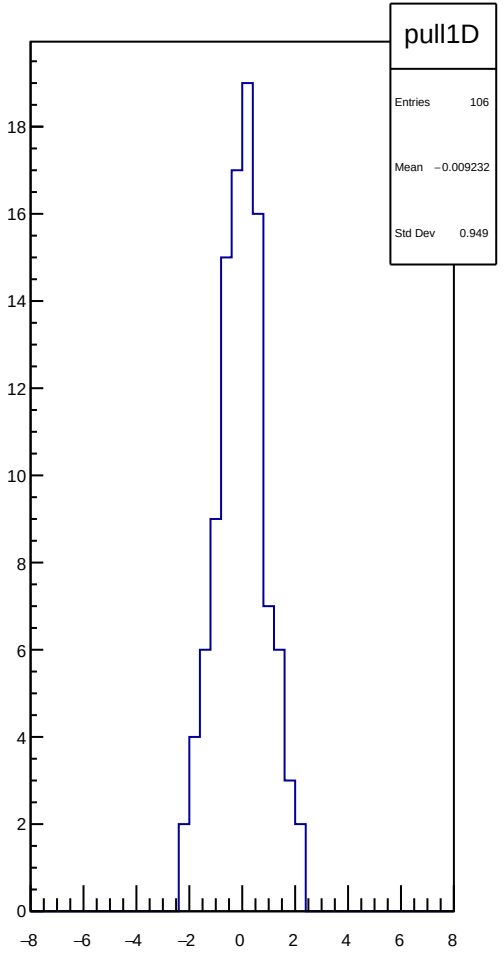

eigen_dit_asym_atl_dd_mean vs run
χ² / ndf 105 / 104
p0 2429 ± 1549
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean 175.1
Std Dev 0
3
2
1
0
−1
−2

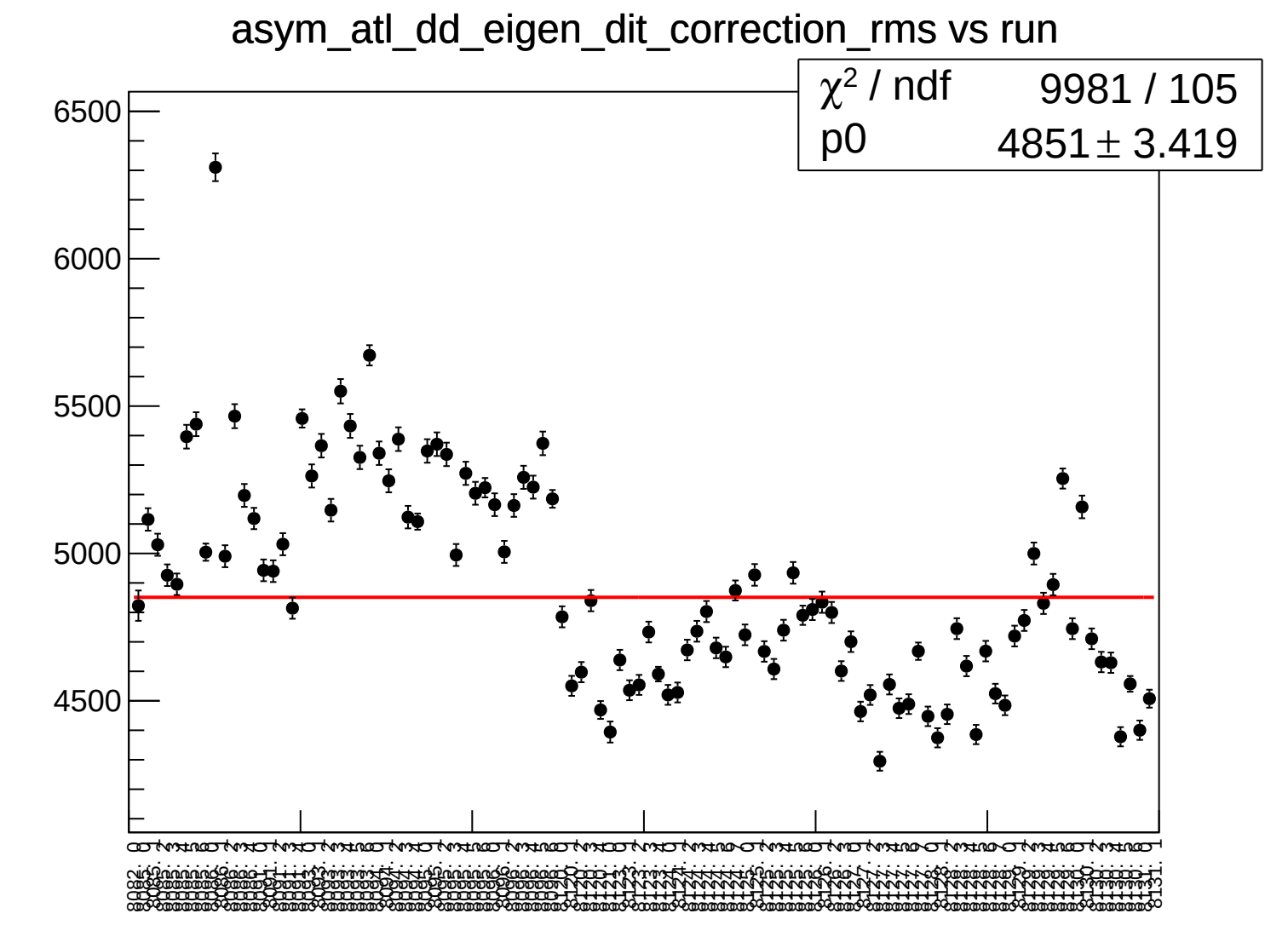

pull1D
Entries 105
Mean 0.01058
Std Dev 0.9999
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

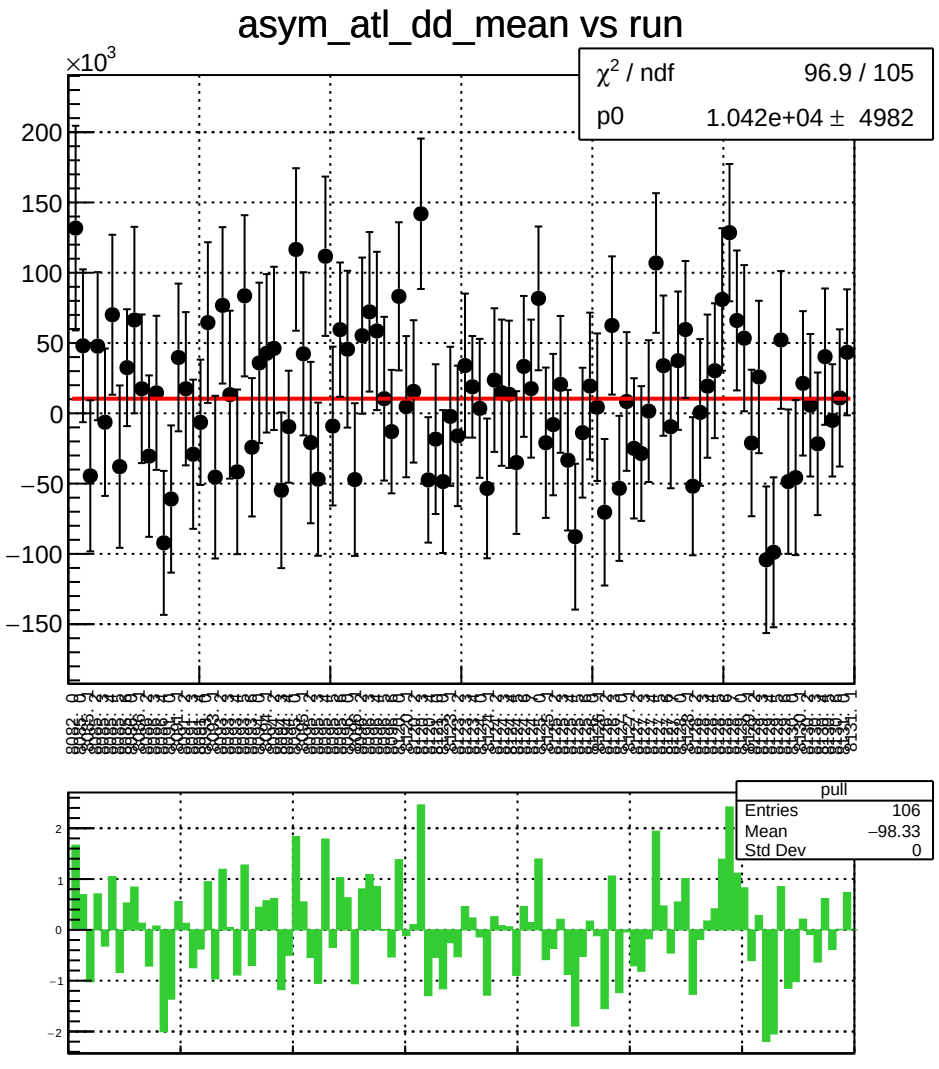
# eigen_dit_asym_atl_dd_rms vs run

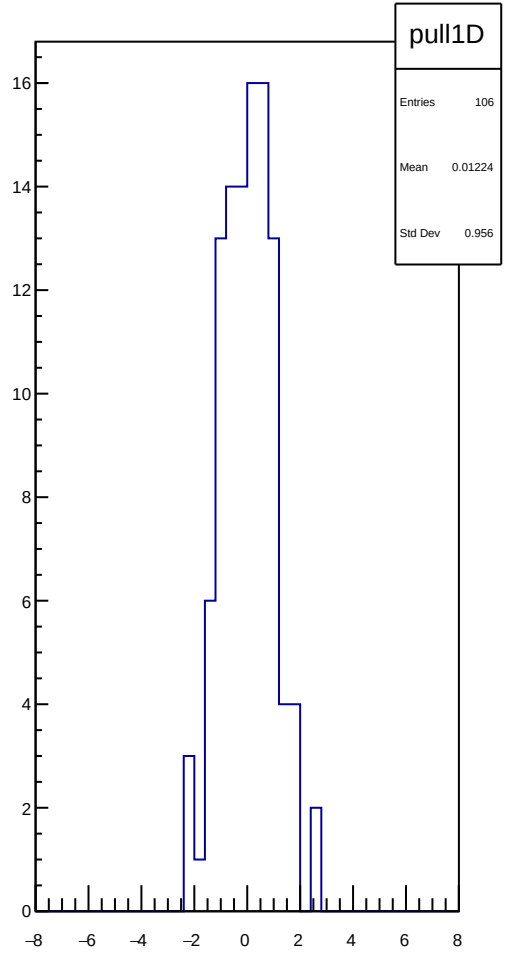


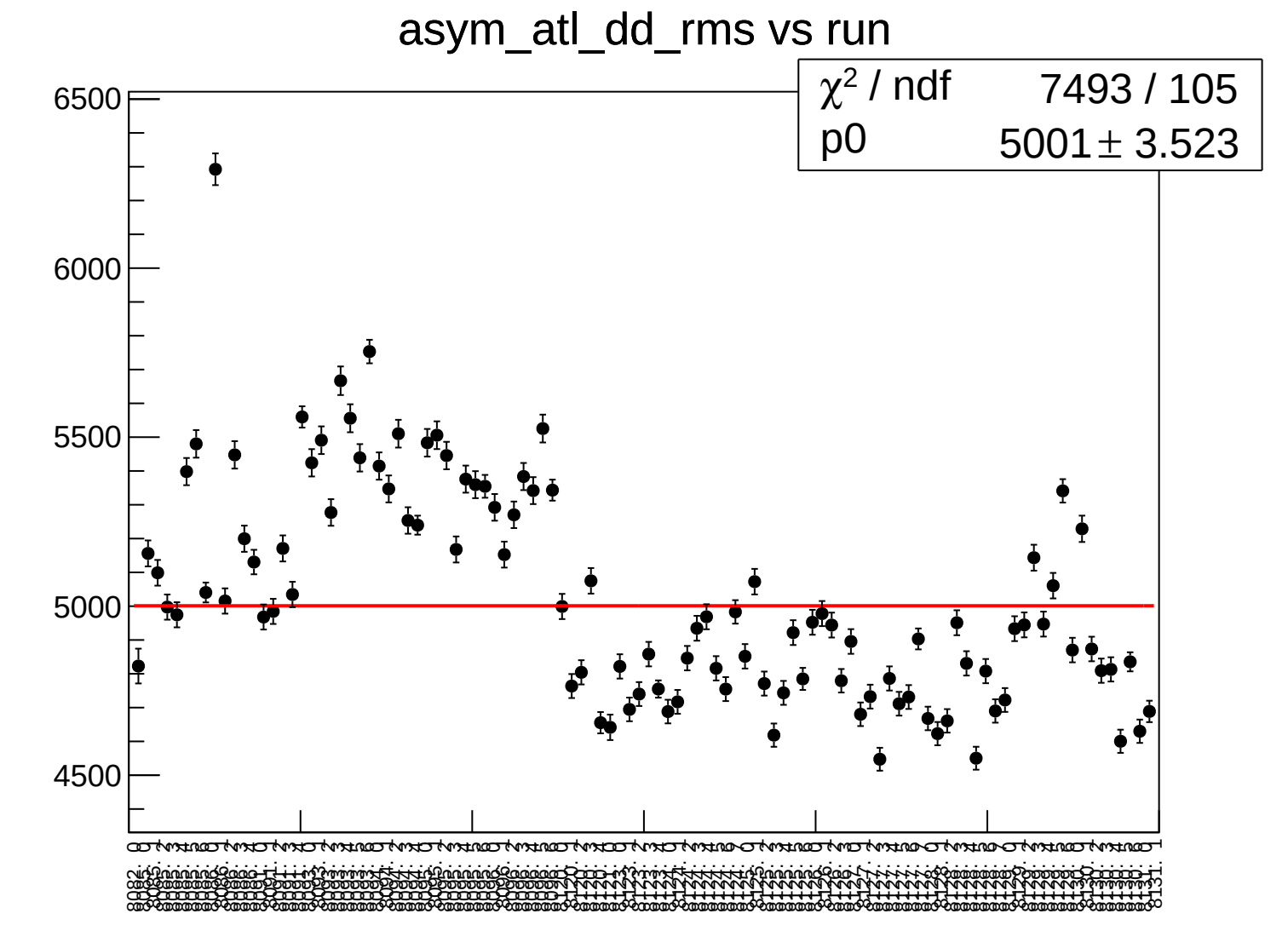

asym_atl_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 95.48 / 105
p0 −8034 ± 4835
150
100
50
0
−50
−100
−150
−200
pull
Entries 106
Mean −209.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

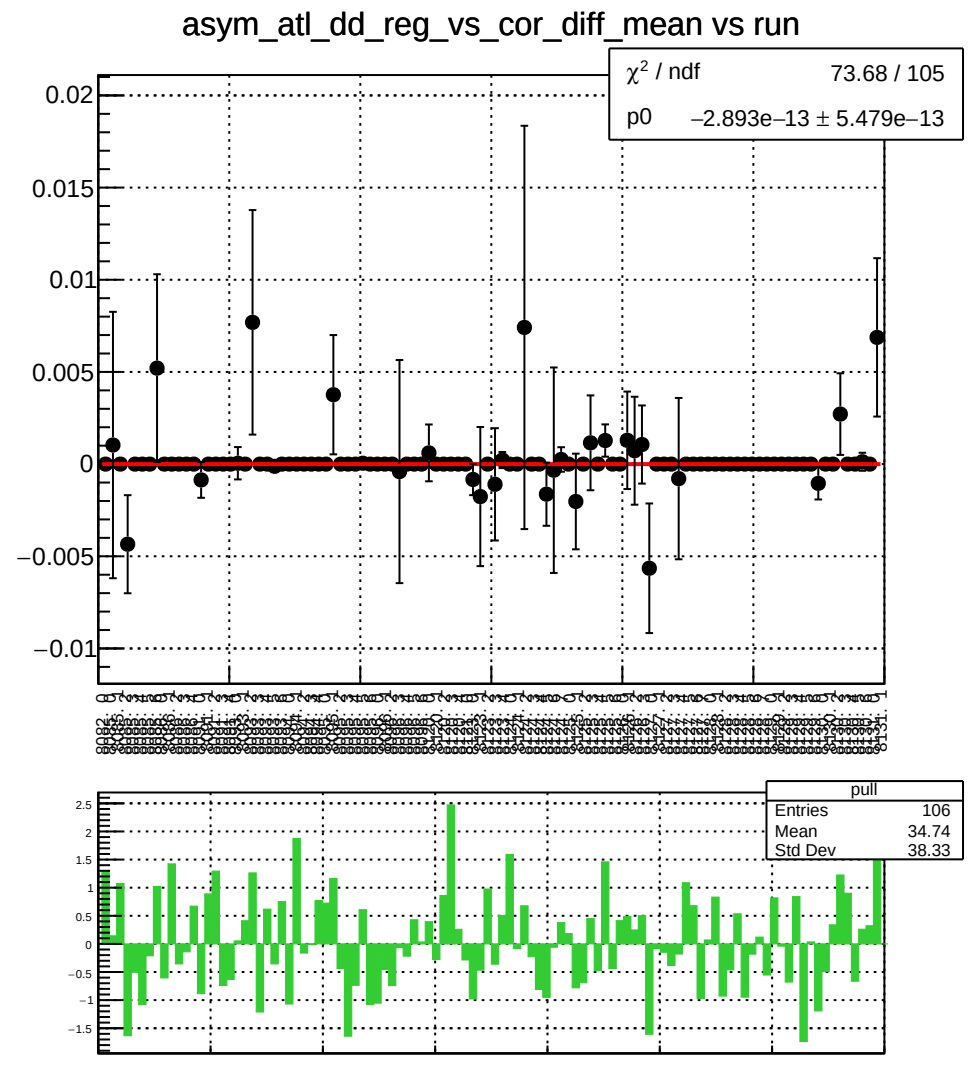

pull1D
Entries 106
Mean −0.009232
Std Dev 0.949
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

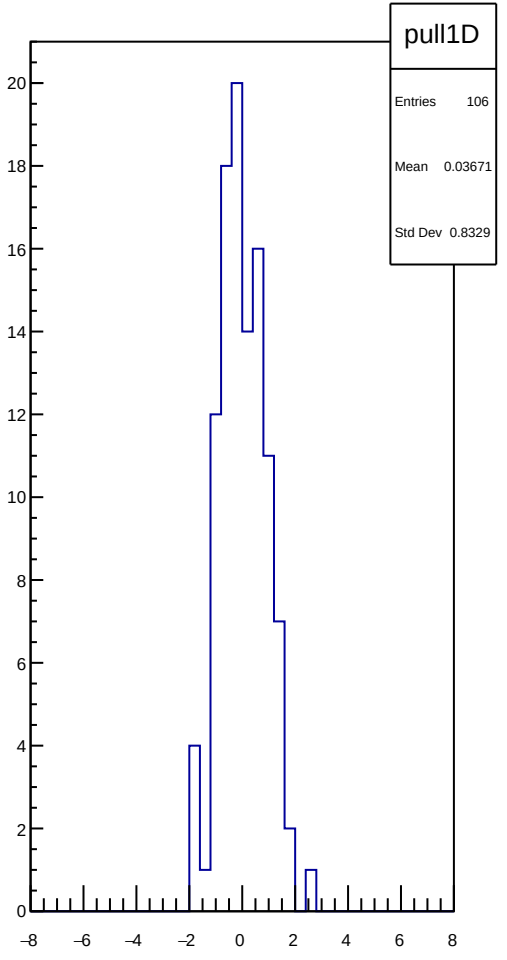

asym_atl_dd_eigen_dit_correction_rms vs run
χ² / ndf 9981 / 105
p0 4851 ± 3.419
6500
6000
5500
5000
4500

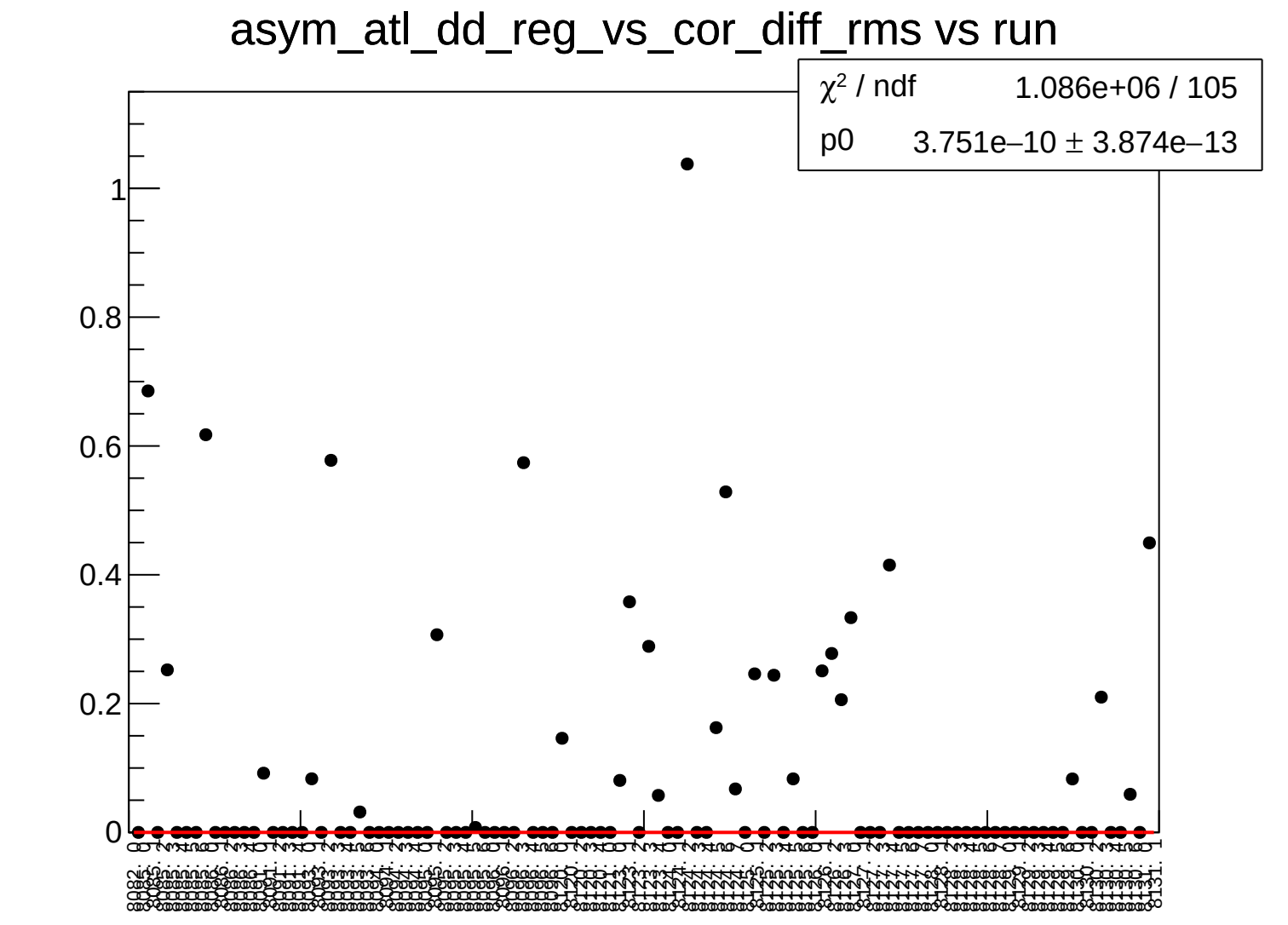

asym_atl_dd_mean vs run
×10^3
χ² / ndf 96.9 / 105
p0 1.042e+04 ± 4982
200
150
100
50
0
−50
−100
−150
pull
Entries 106
Mean −98.33
Std Dev 0
2
1
0
−1
−2

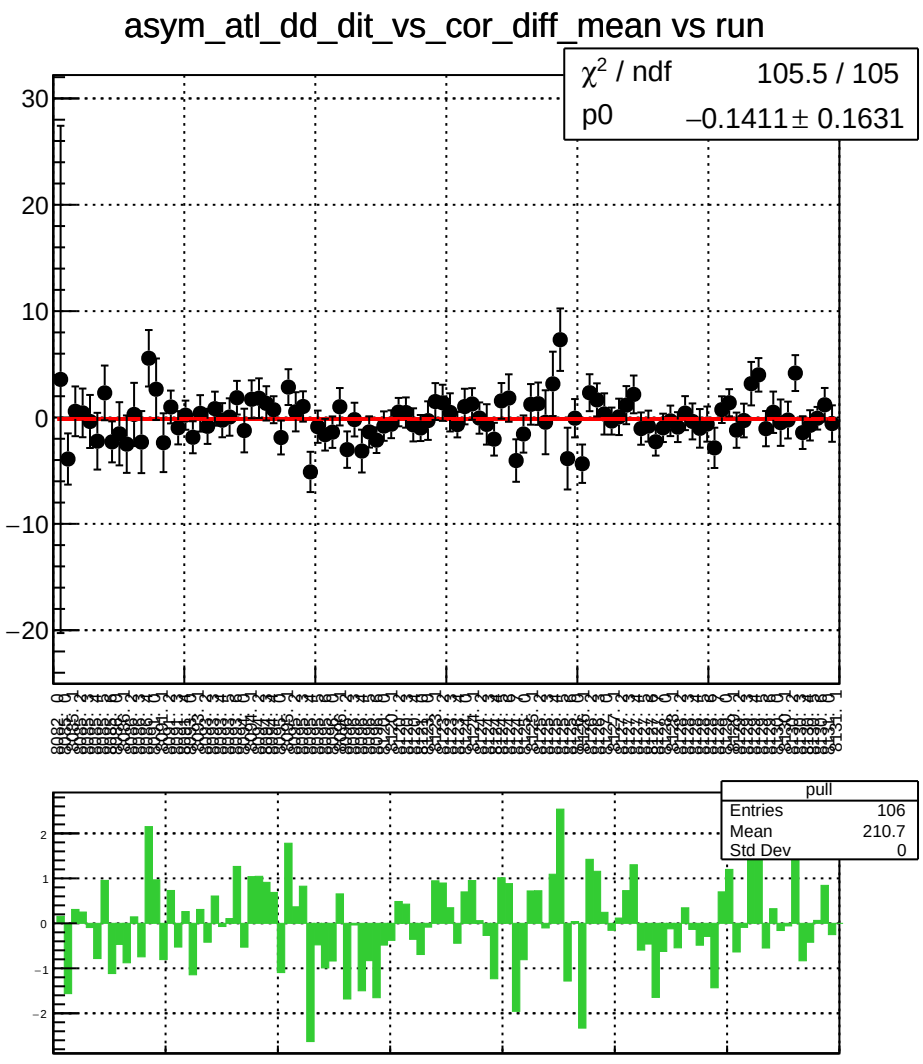

pull1D
Entries 106
Mean 0.01224
Std Dev 0.956
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

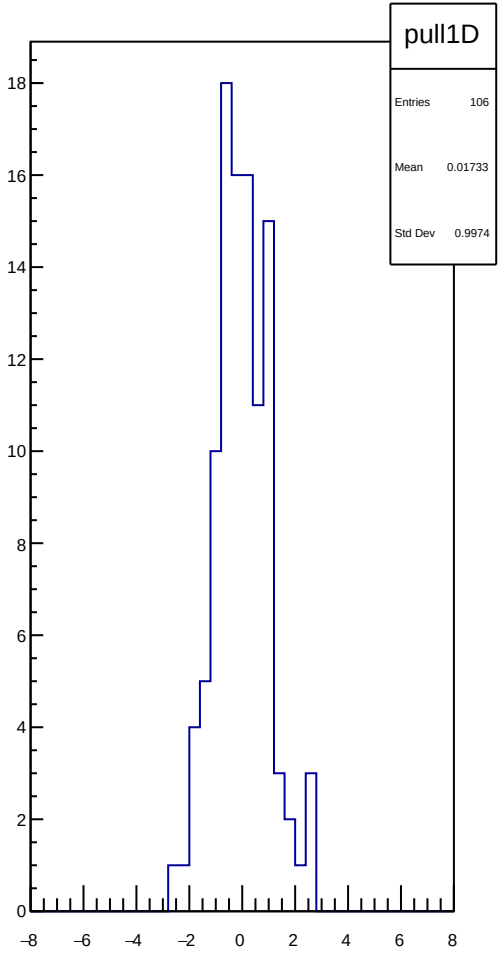

asym_atl_dd_rms vs run
χ² / ndf 7493 / 105
p0 5001 ± 3.523
6500
6000
5500
5000
4500

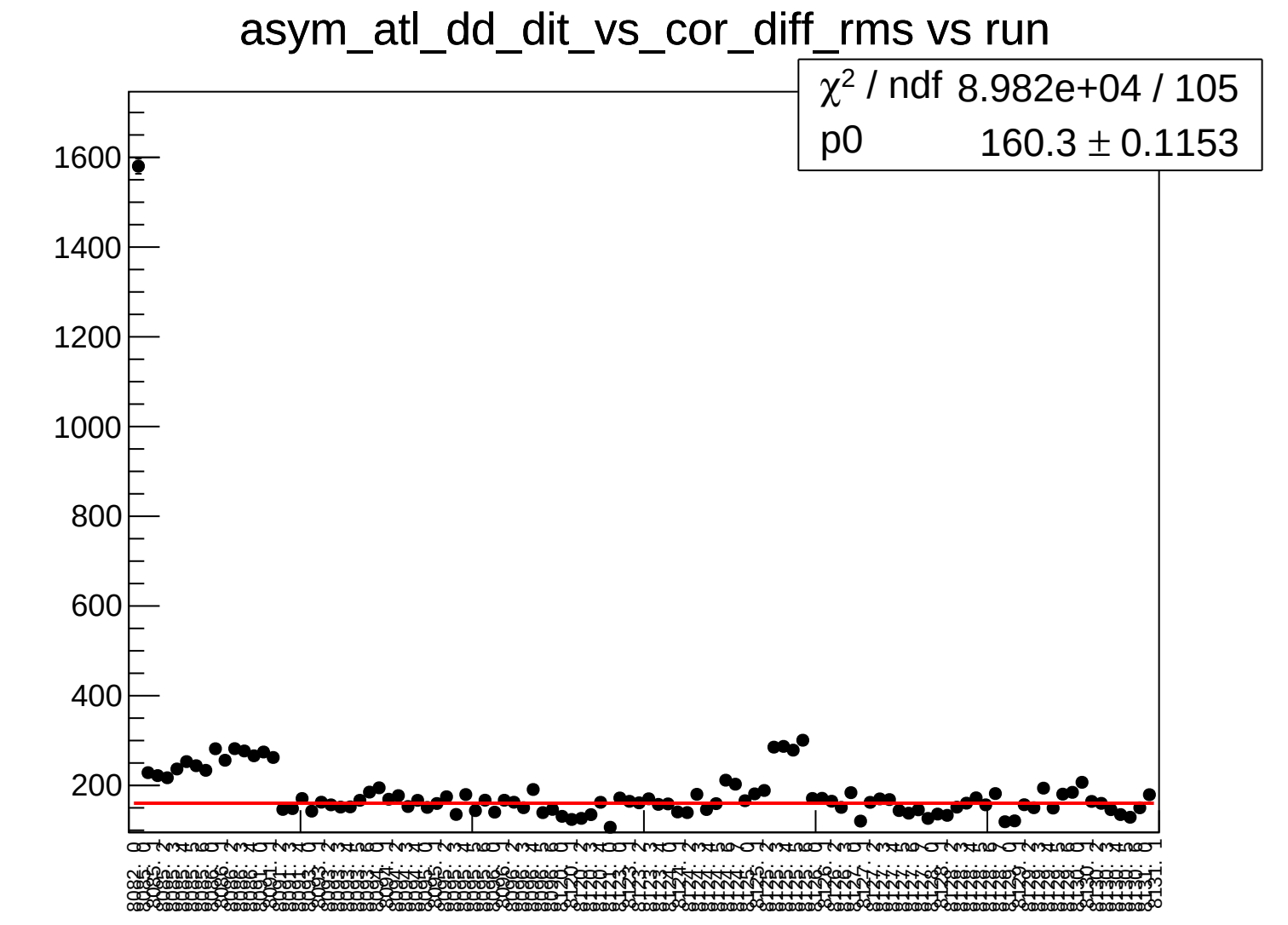

asym_atl_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 73.68 / 105
p0 −2.893e−13 ± 5.479e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 106
Mean 34.74
Std Dev 38.33
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

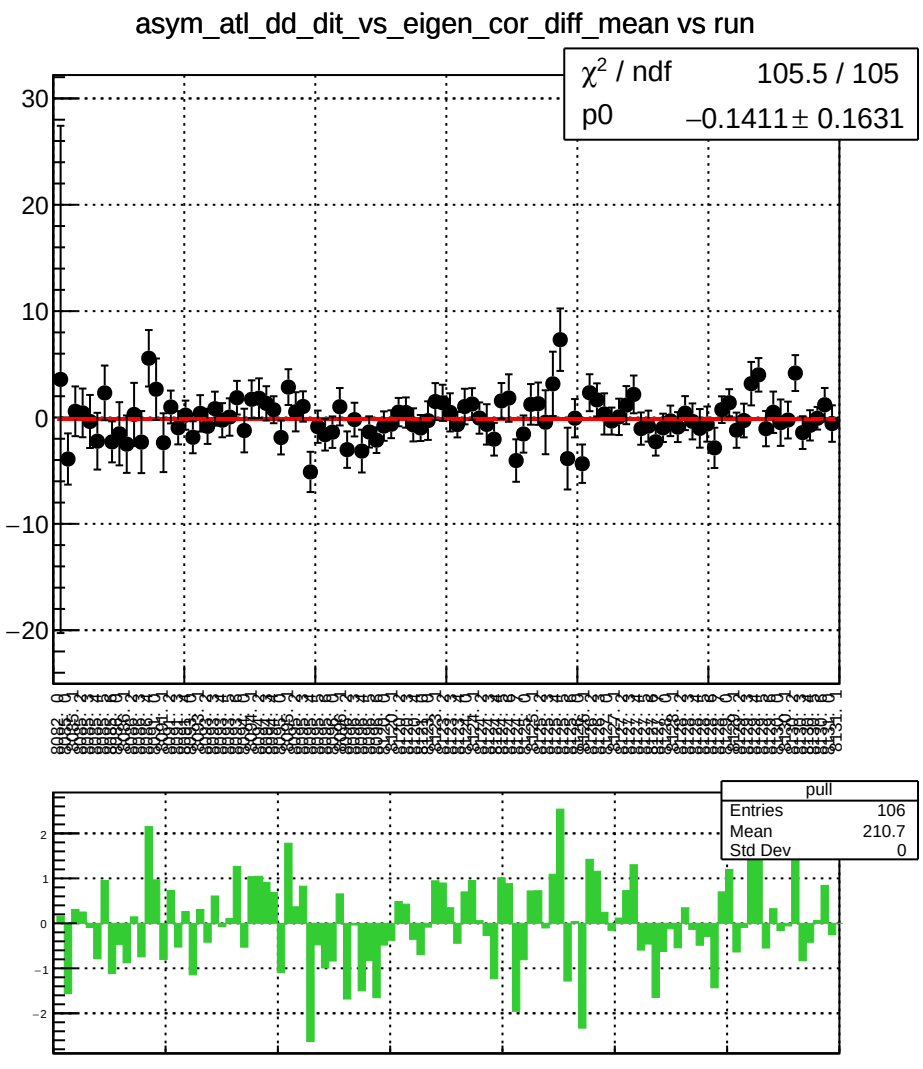

pull1D
Entries 106
Mean 0.03671
Std Dev 0.8329
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

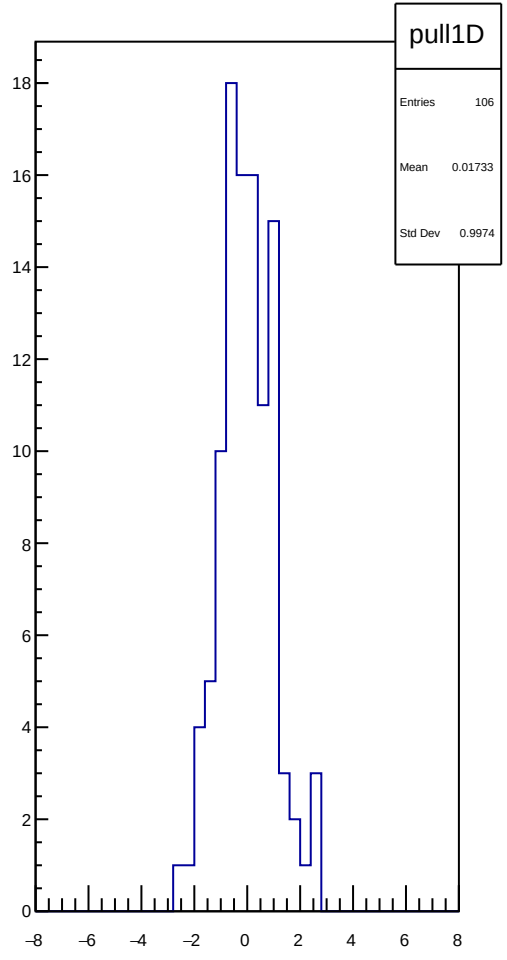

asym_atl_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.086e+06 / 105
p0 3.751e−10 ± 3.874e−13
1
0.8
0.6
0.4
0.2
0

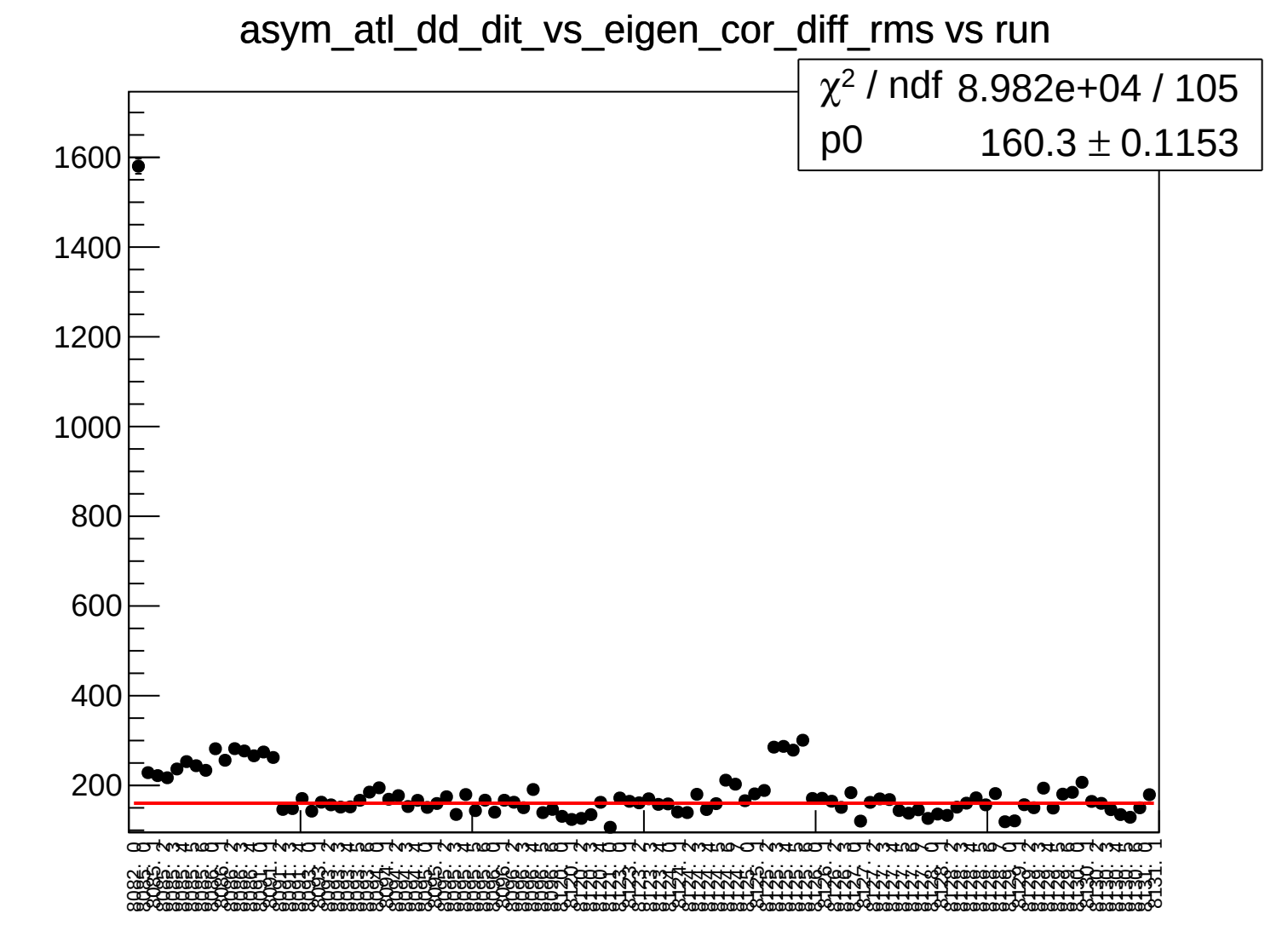

asym_atl_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 105.5 / 105
p0 −0.1411 ± 0.1631
pull
Entries 106
Mean 210.7
Std Dev 0

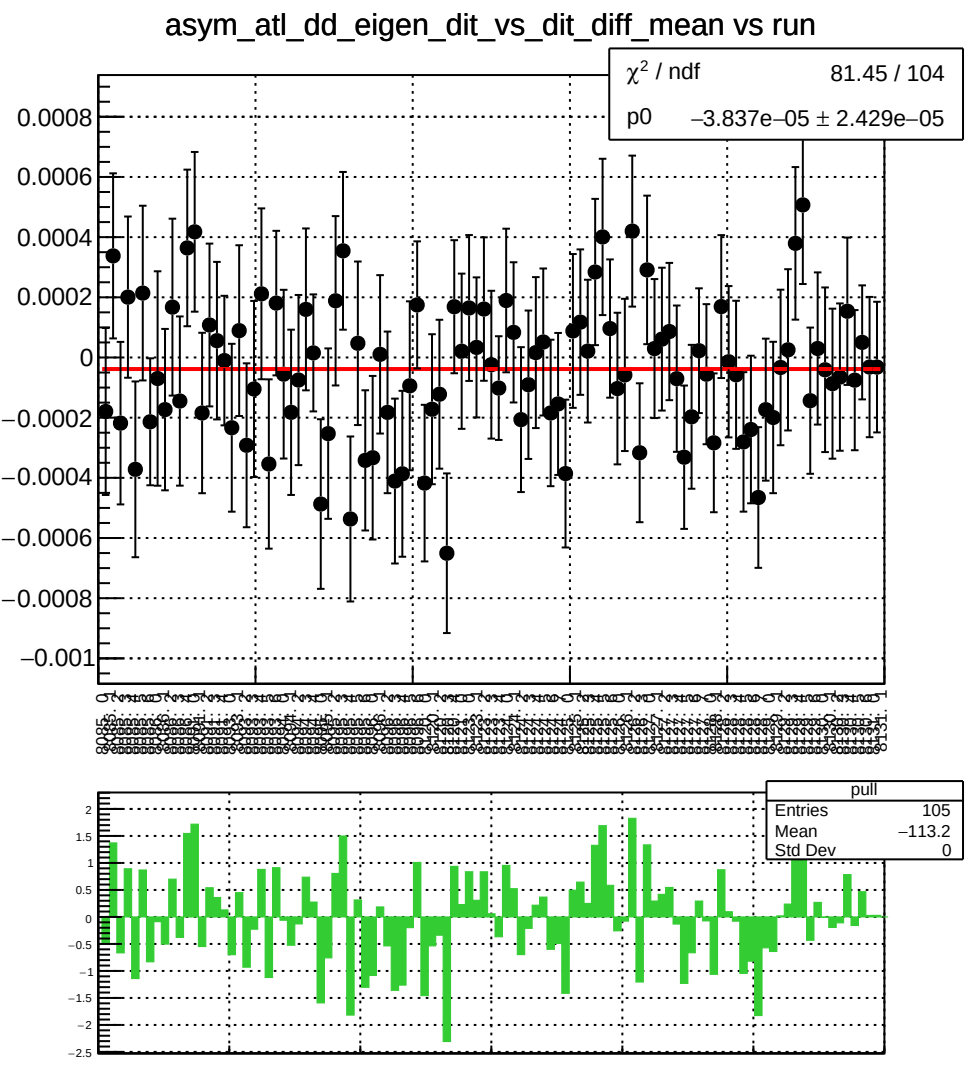

pull1D
Entries 106
Mean 0.01733
Std Dev 0.9974

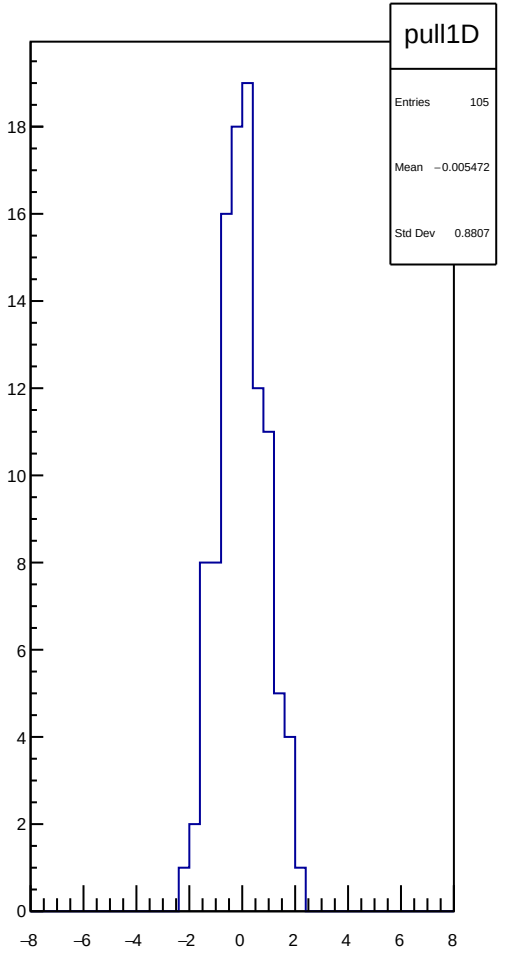

asym_atl_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8.982e+04 / 105
p0 160.3 ± 0.1153
1600
1400
1200
1000
800
600
400
200

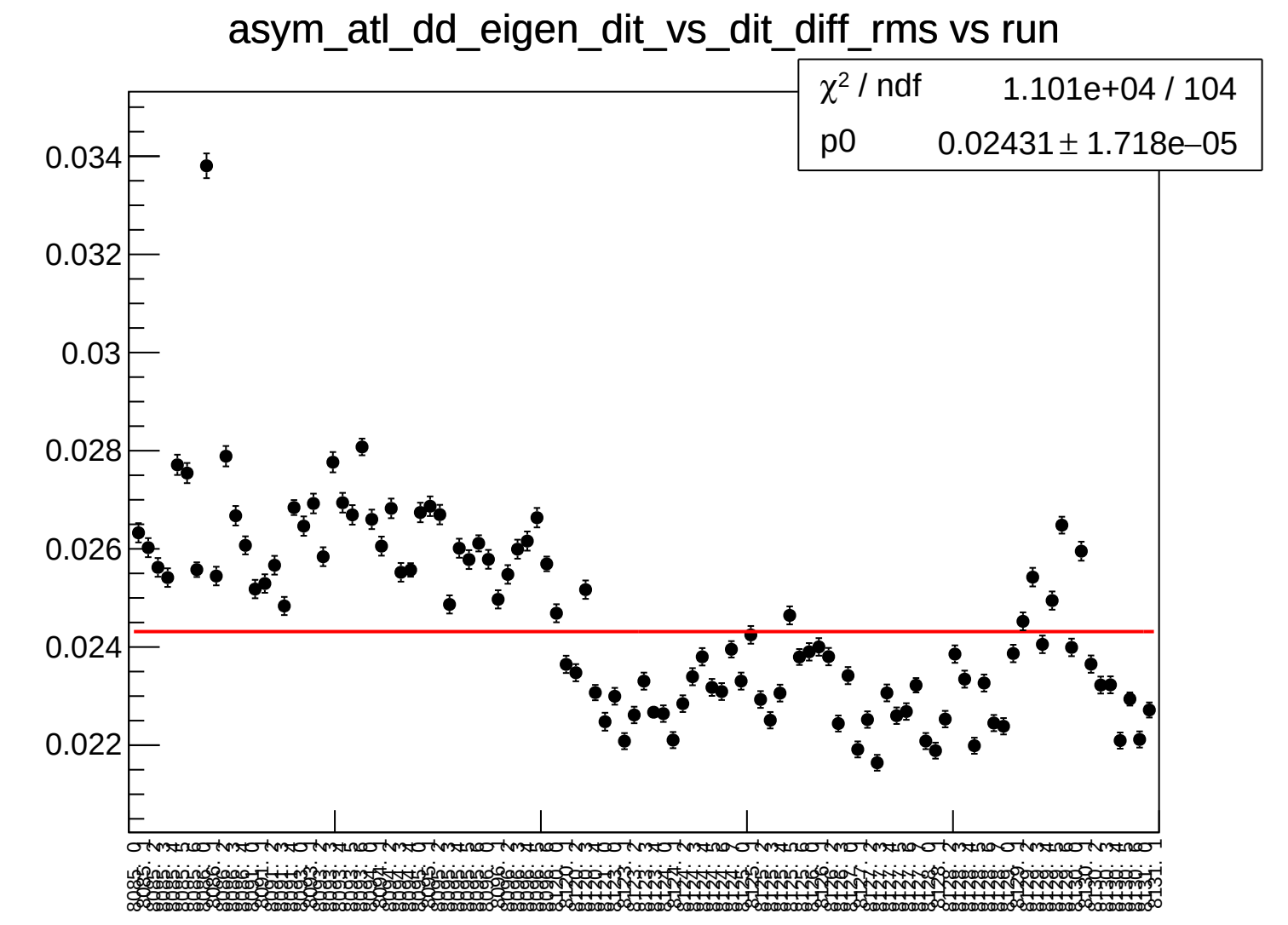

asym_atl_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.5 / 105
p0 −0.1411 ± 0.1631
pull
Entries 106
Mean 210.7
Std Dev 0

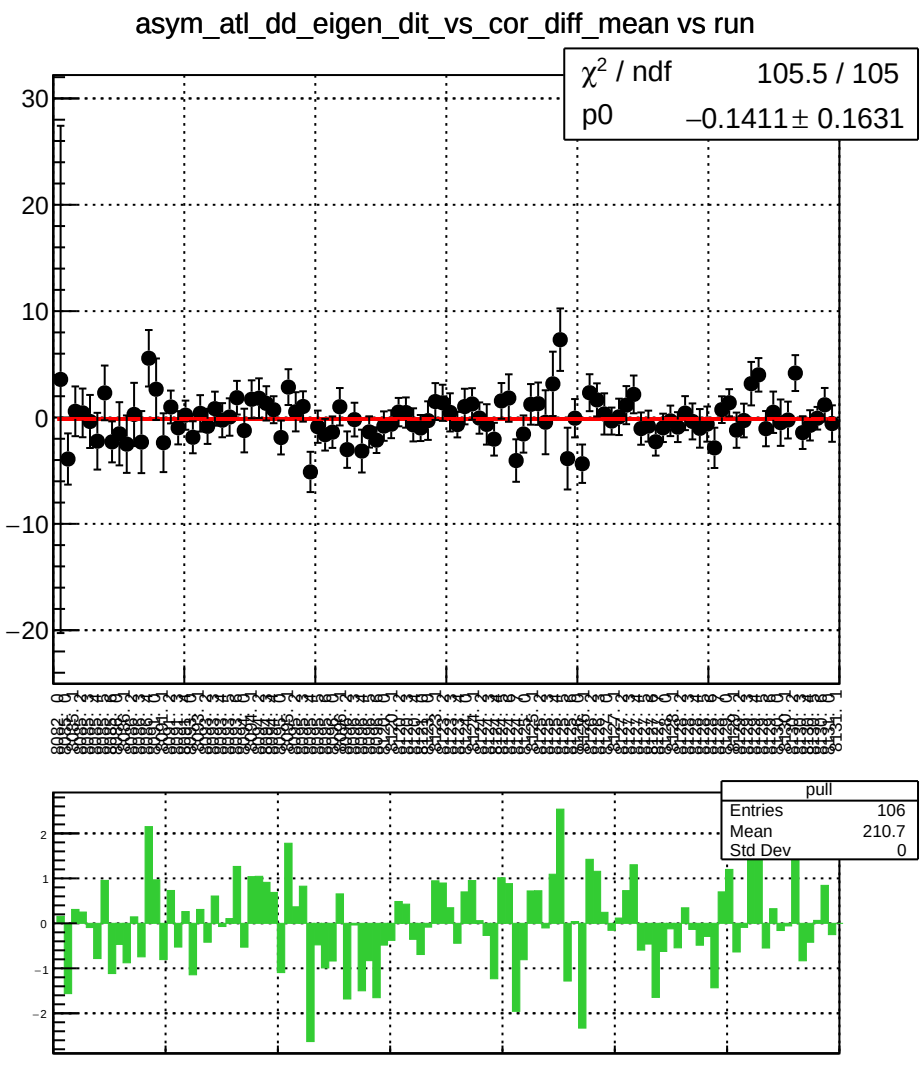

pull1D
Entries 106
Mean 0.01733
Std Dev 0.9974

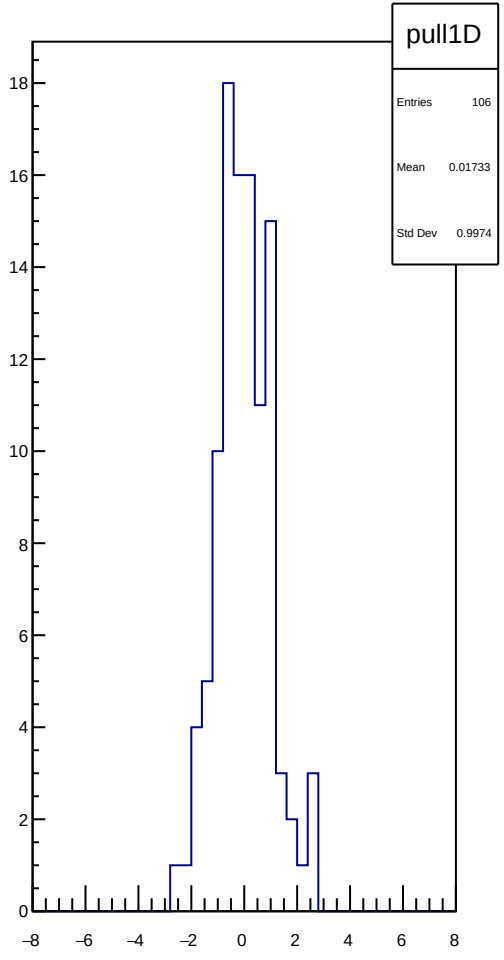

asym_atl_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.982e+04 / 105
p0 160.3 ± 0.1153
1600
1400
1200
1000
800
600
400
200

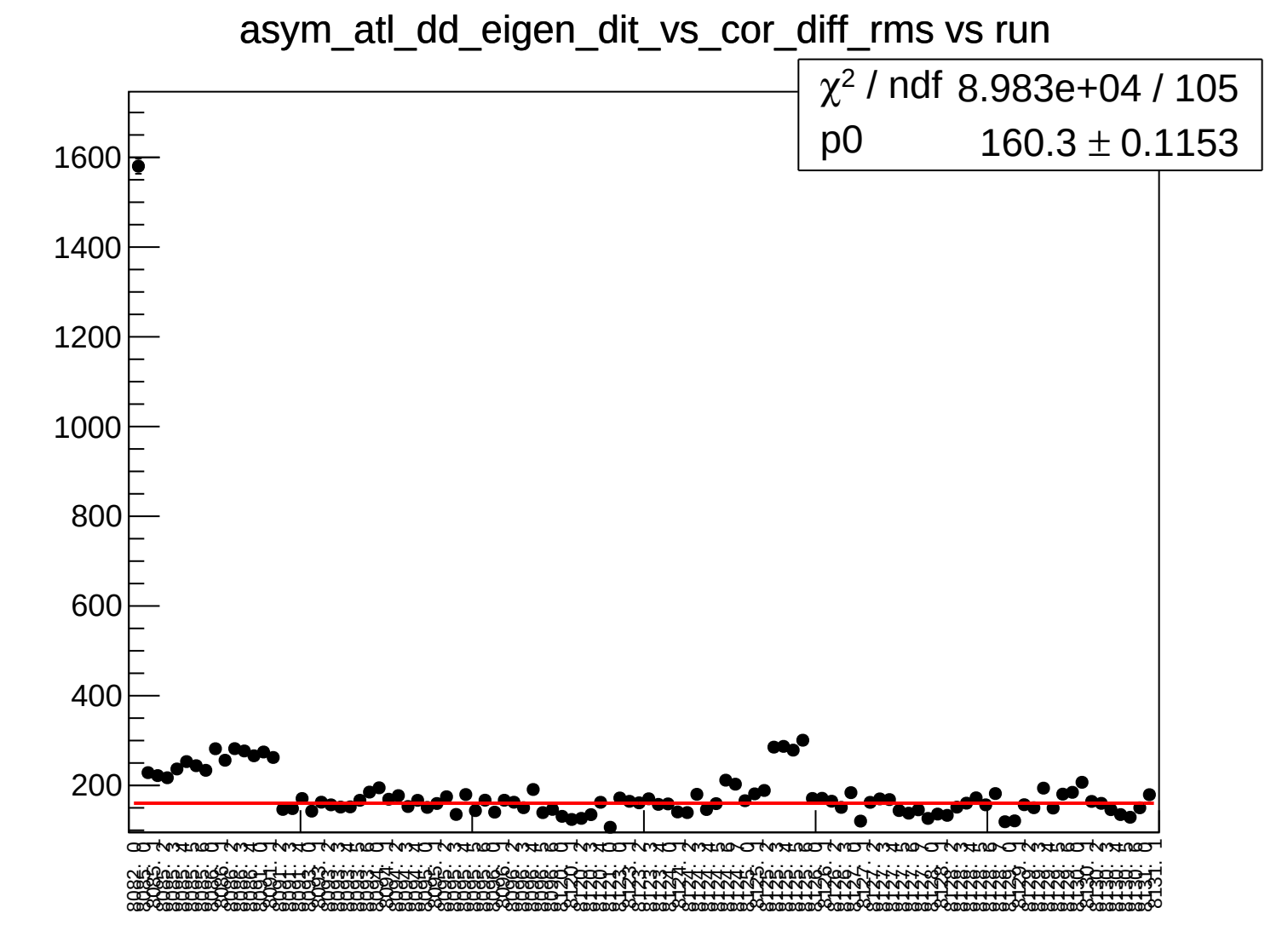

asym_atl_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 81.45 / 104
p0 −3.837e−05 ± 2.429e−05
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 105
Mean −113.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

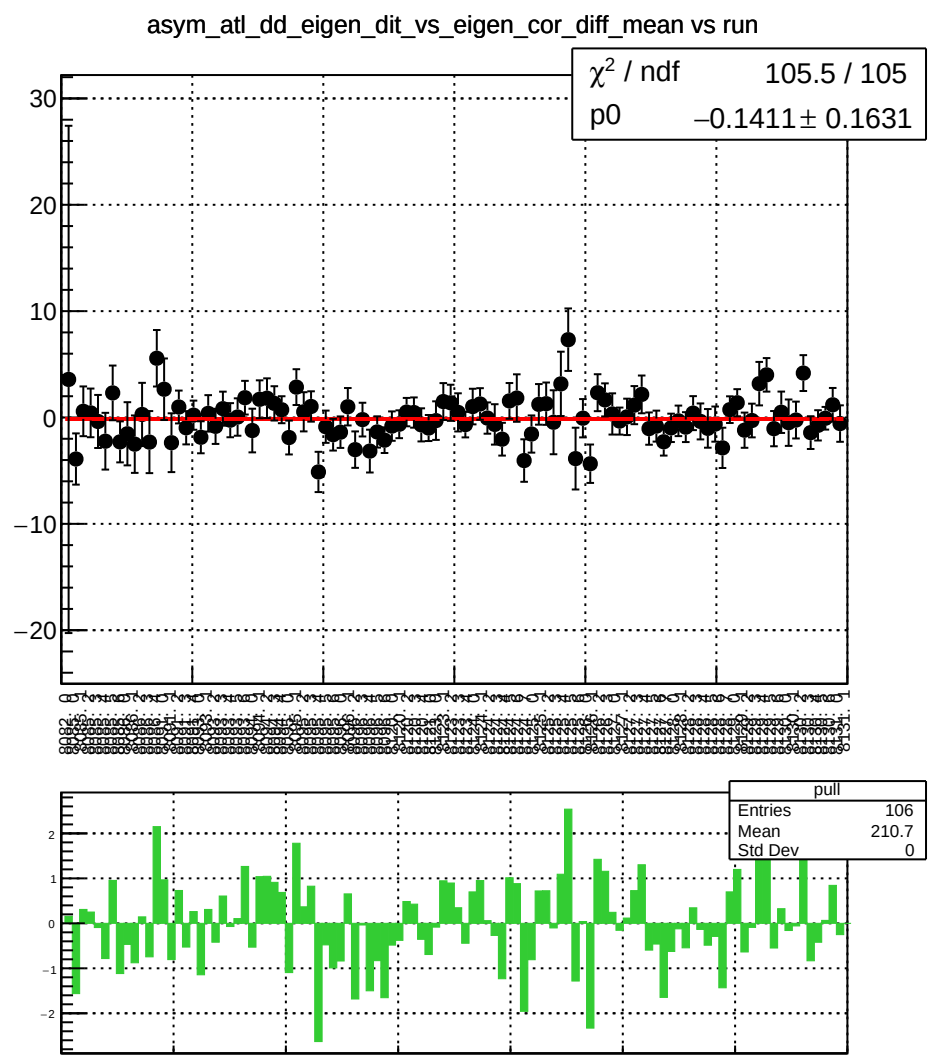

pull1D
Entries 105
Mean −0.005472
Std Dev 0.8807
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

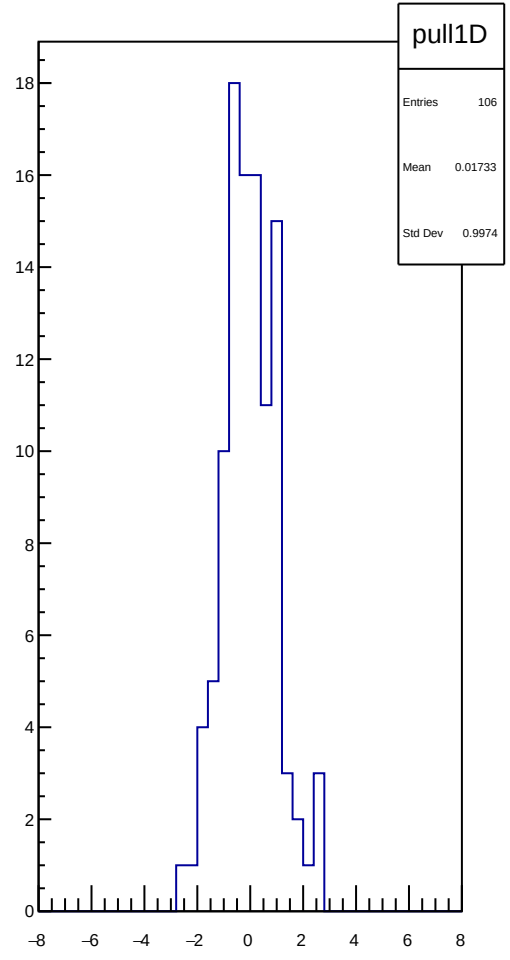

asym_atl_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.101e+04 / 104
p0 0.02431 ± 1.718e–05
0.034
0.032
0.03
0.028
0.026
0.024
0.022

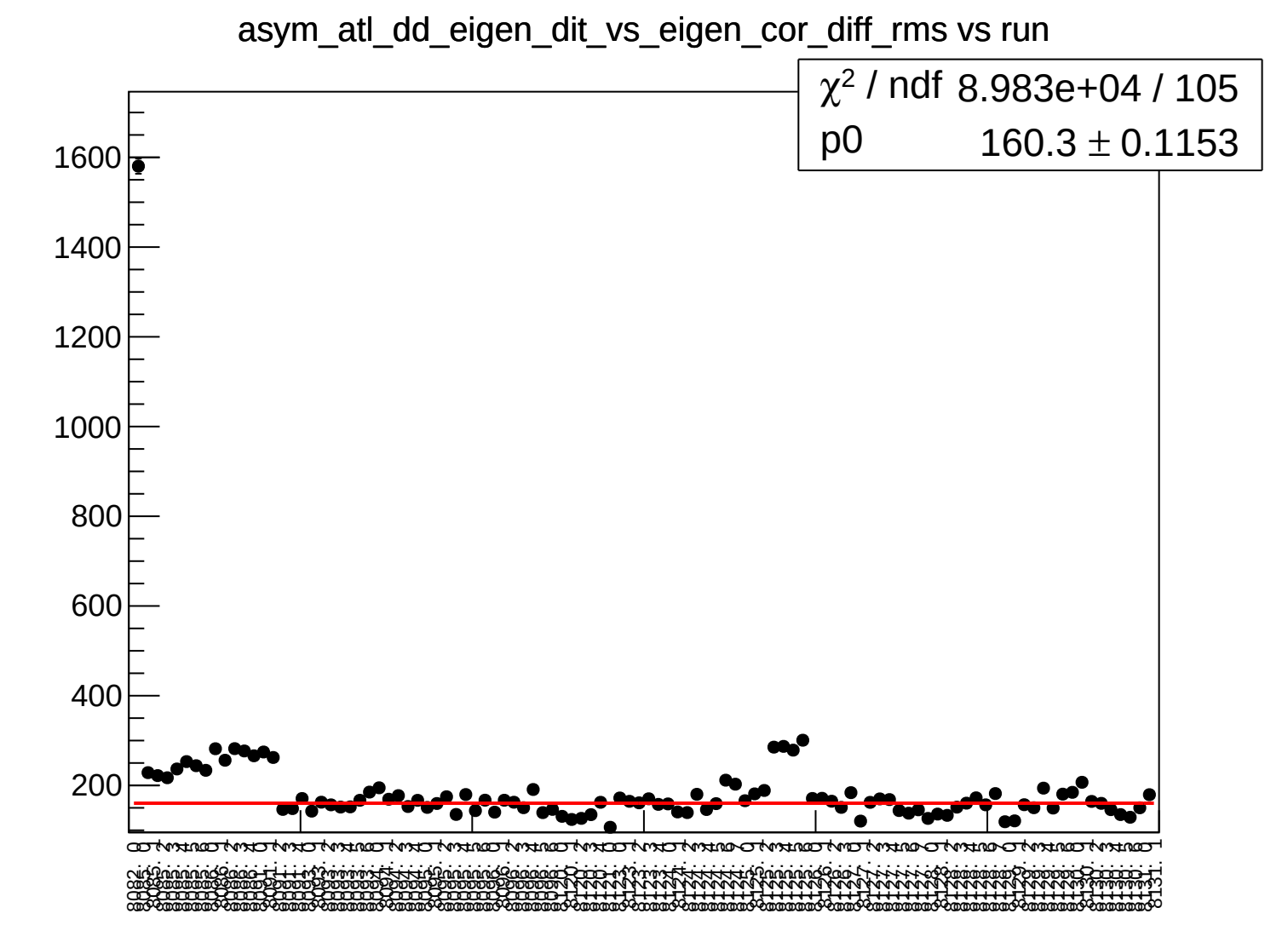

asym_atl_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 105.5 / 105
p0 −0.1411 ± 0.1631
30
20
10
0
−10
−20
pull
Entries 106
Mean 210.7
Std Dev 0
2
1
0
−1
−2

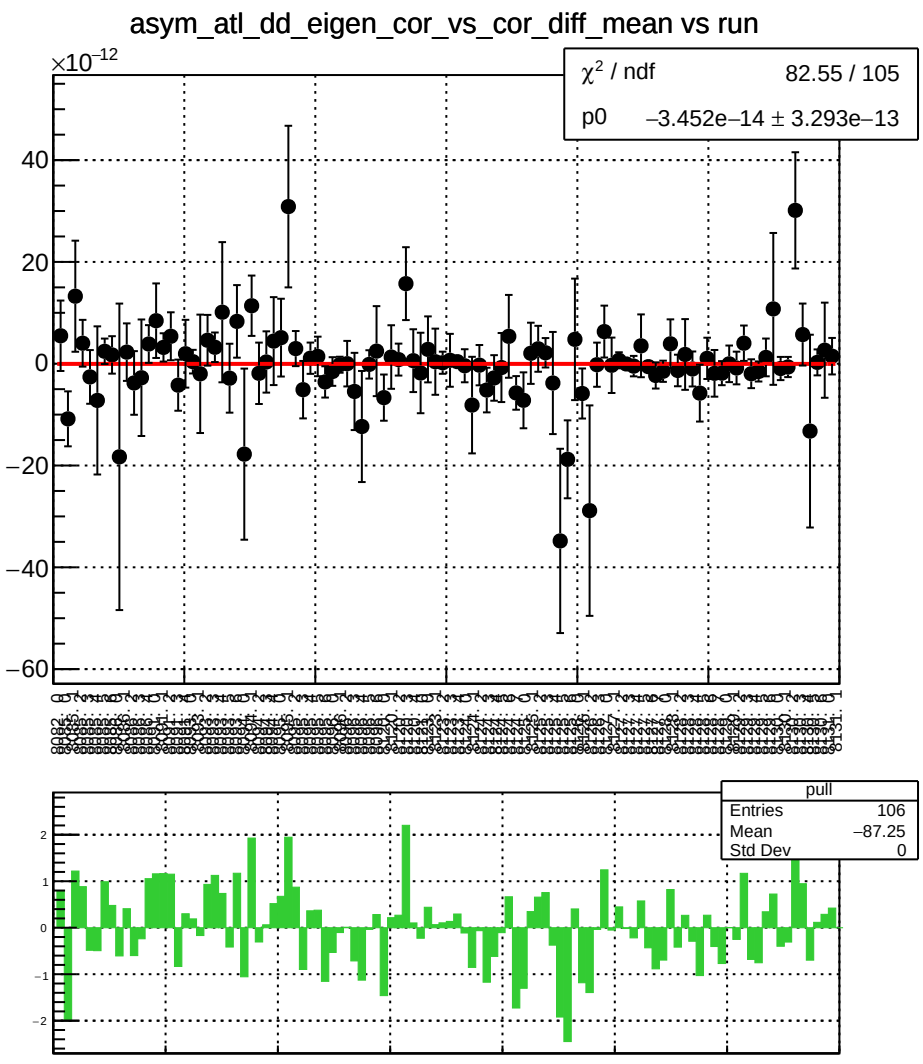

pull1D
Entries 106
Mean 0.01733
Std Dev 0.9974
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

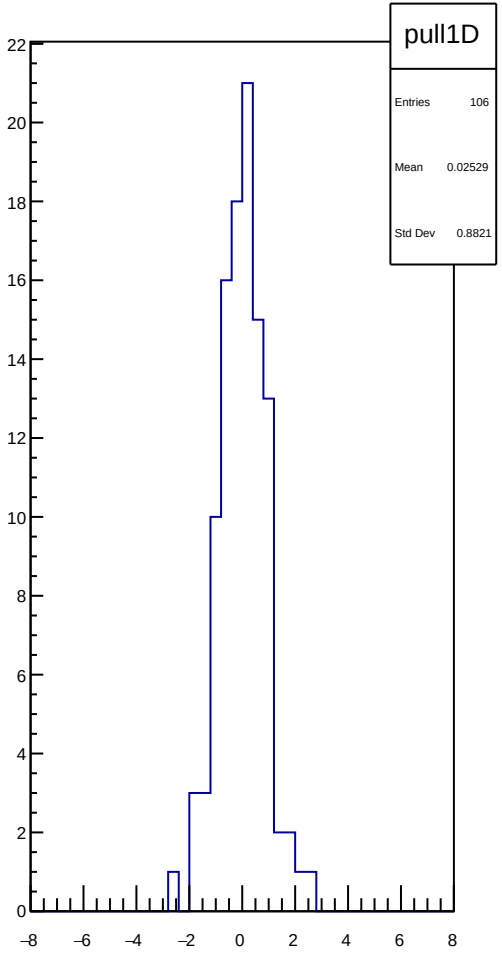

asym_atl_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.983e+04 / 105
p0 160.3 ± 0.1153
1600
1400
1200
1000
800
600
400
200

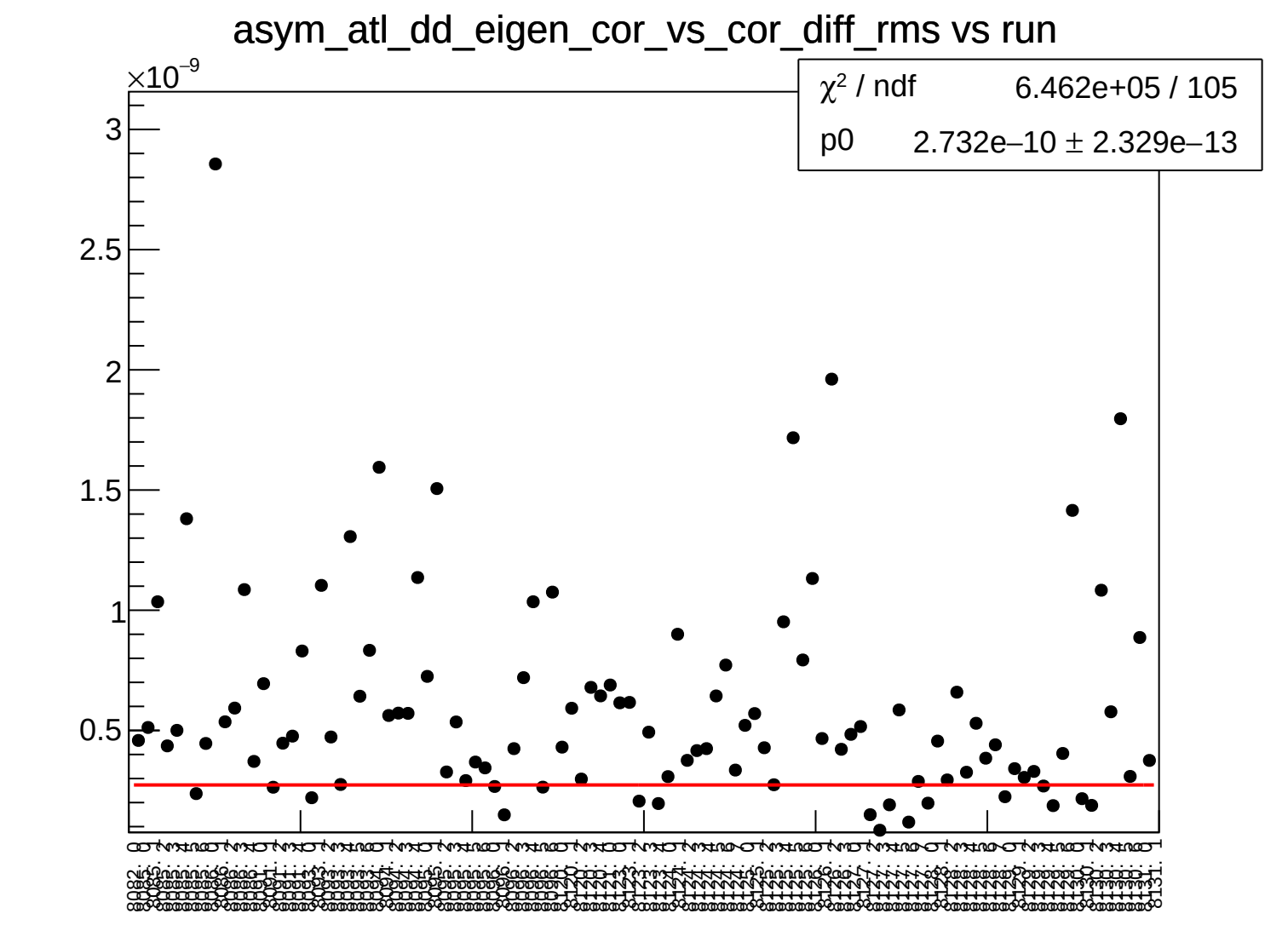

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.5 / 105
p0 −0.1411 ± 0.1631
pull
Entries 106
Mean 210.7
Std Dev 0

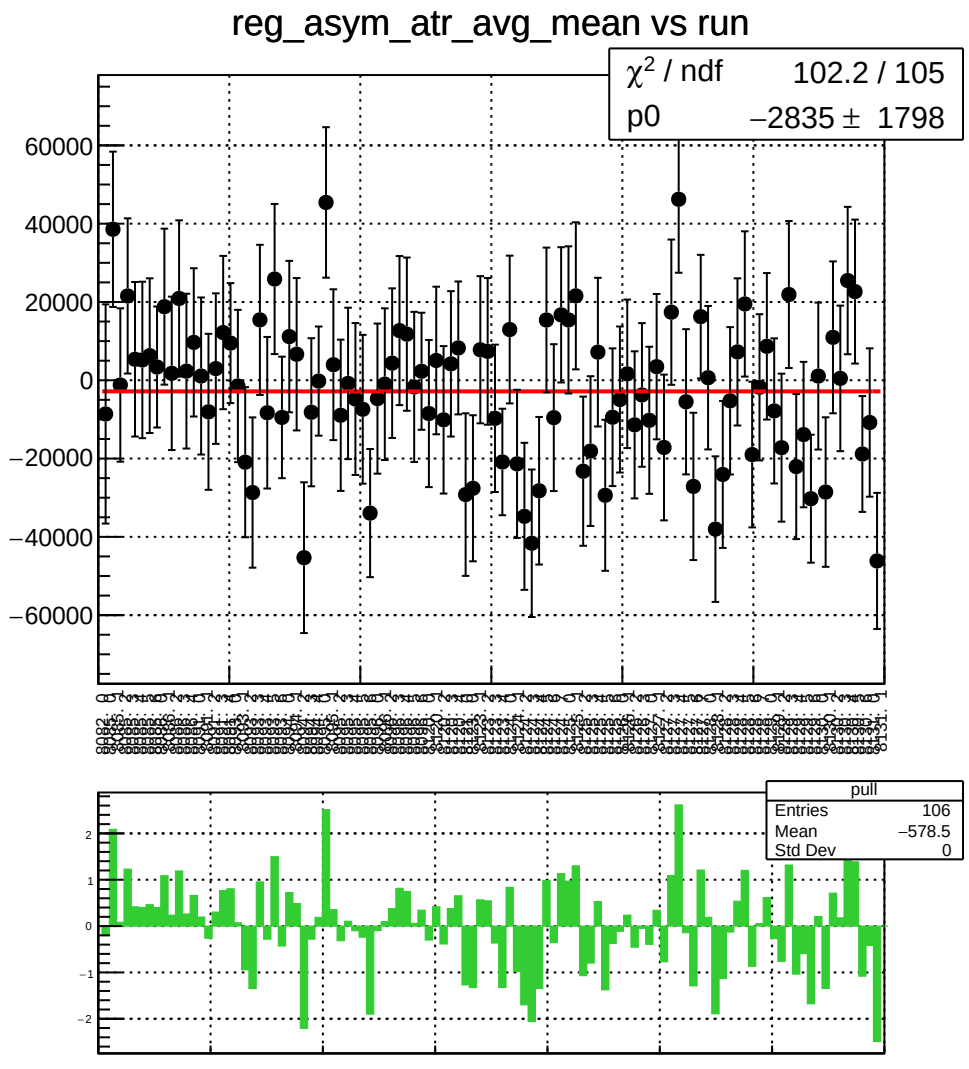

pull1D
Entries 106
Mean 0.01733
Std Dev 0.9974

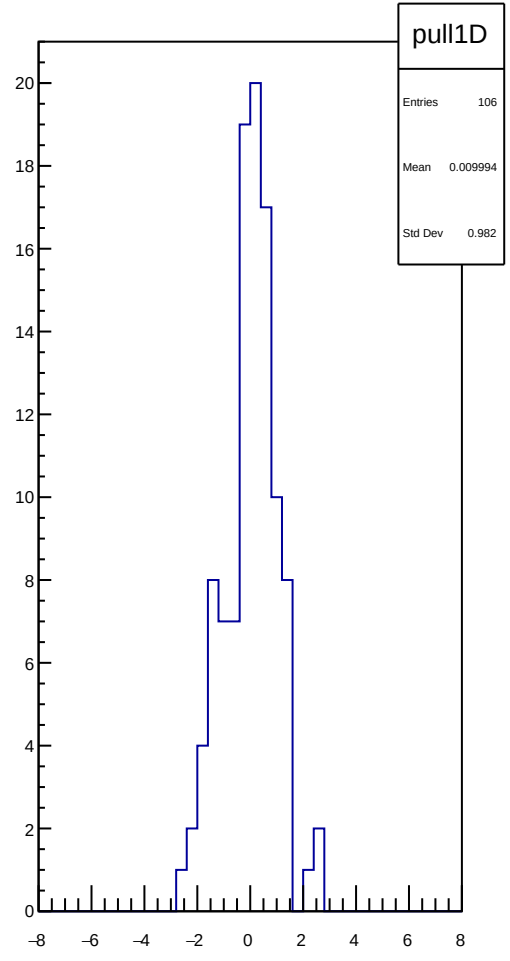

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.983e+04 / 105
p0 160.3 ± 0.1153
1600
1400
1200
1000
800
600
400
200

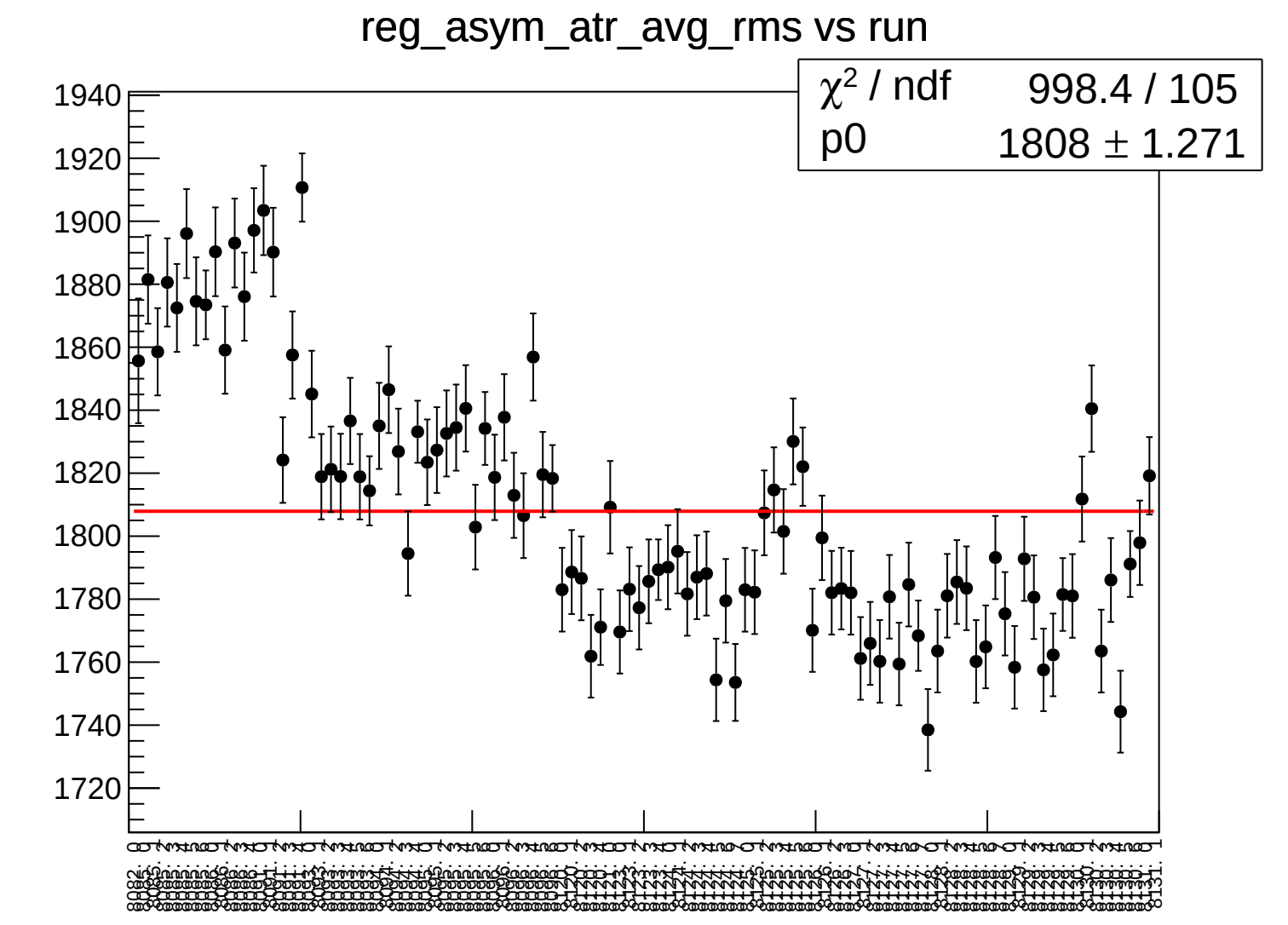

asym_atl_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.55 / 105
p0 −3.452e−14 ± 3.293e−13
40
20
0
−20
−40
−60
pull
Entries 106
Mean −87.25
Std Dev 0
2
1
0
−1
−2

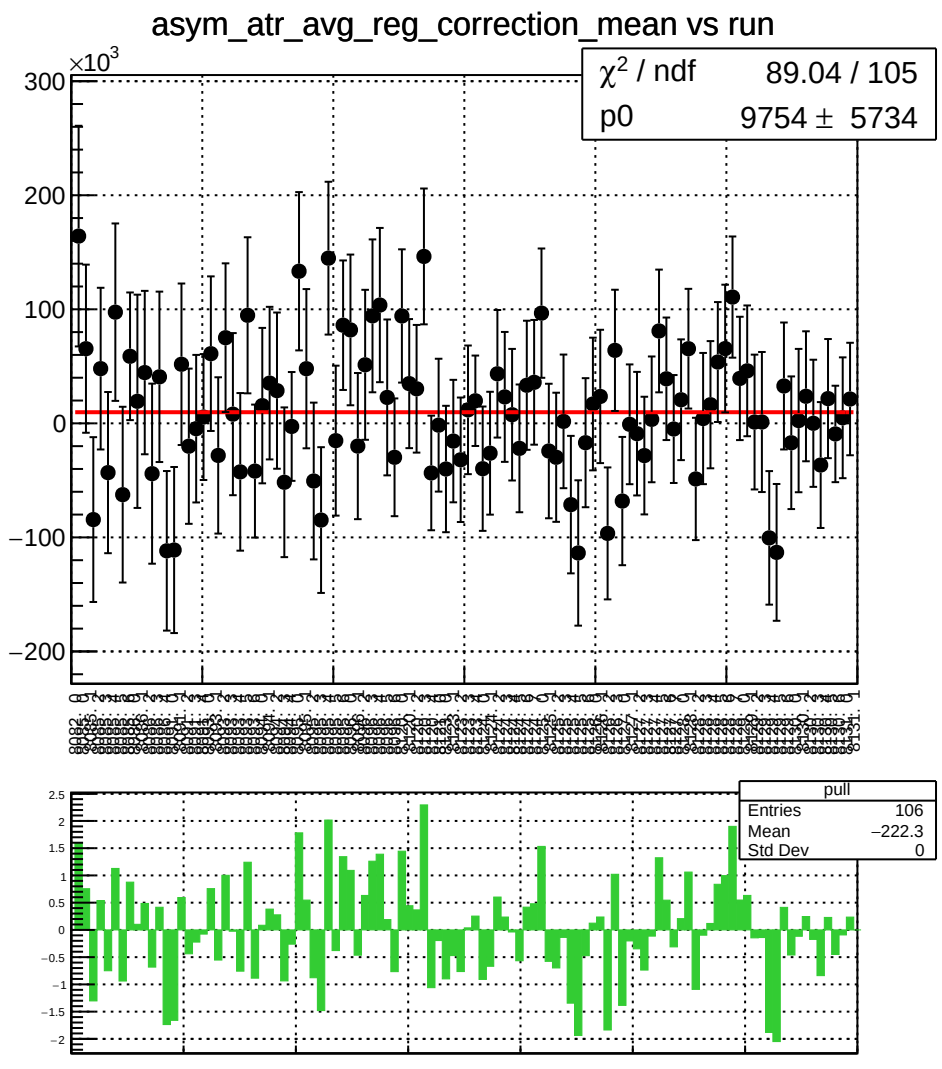

pull1D
Entries 106
Mean 0.02529
Std Dev 0.8821
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

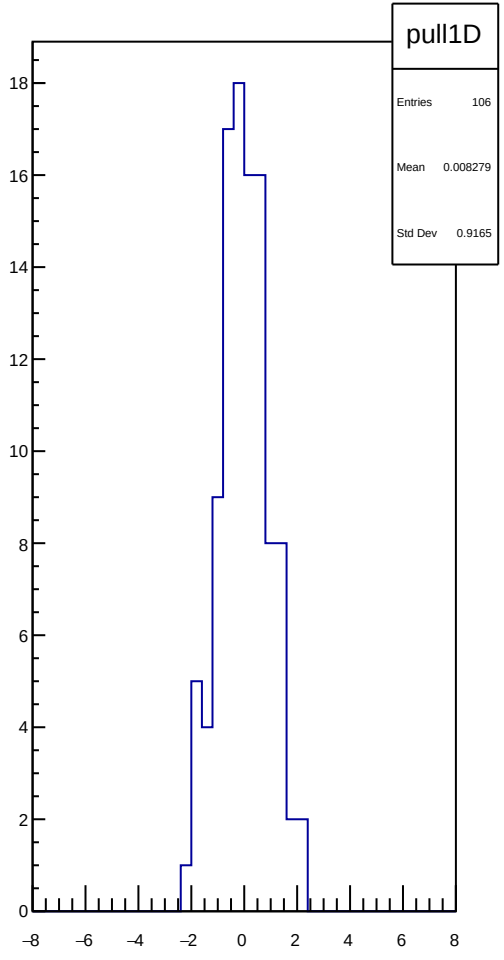

asym_atl_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.462e+05 / 105
p0 2.732e−10 ± 2.329e−13
3
2.5
2
1.5
1
0.5

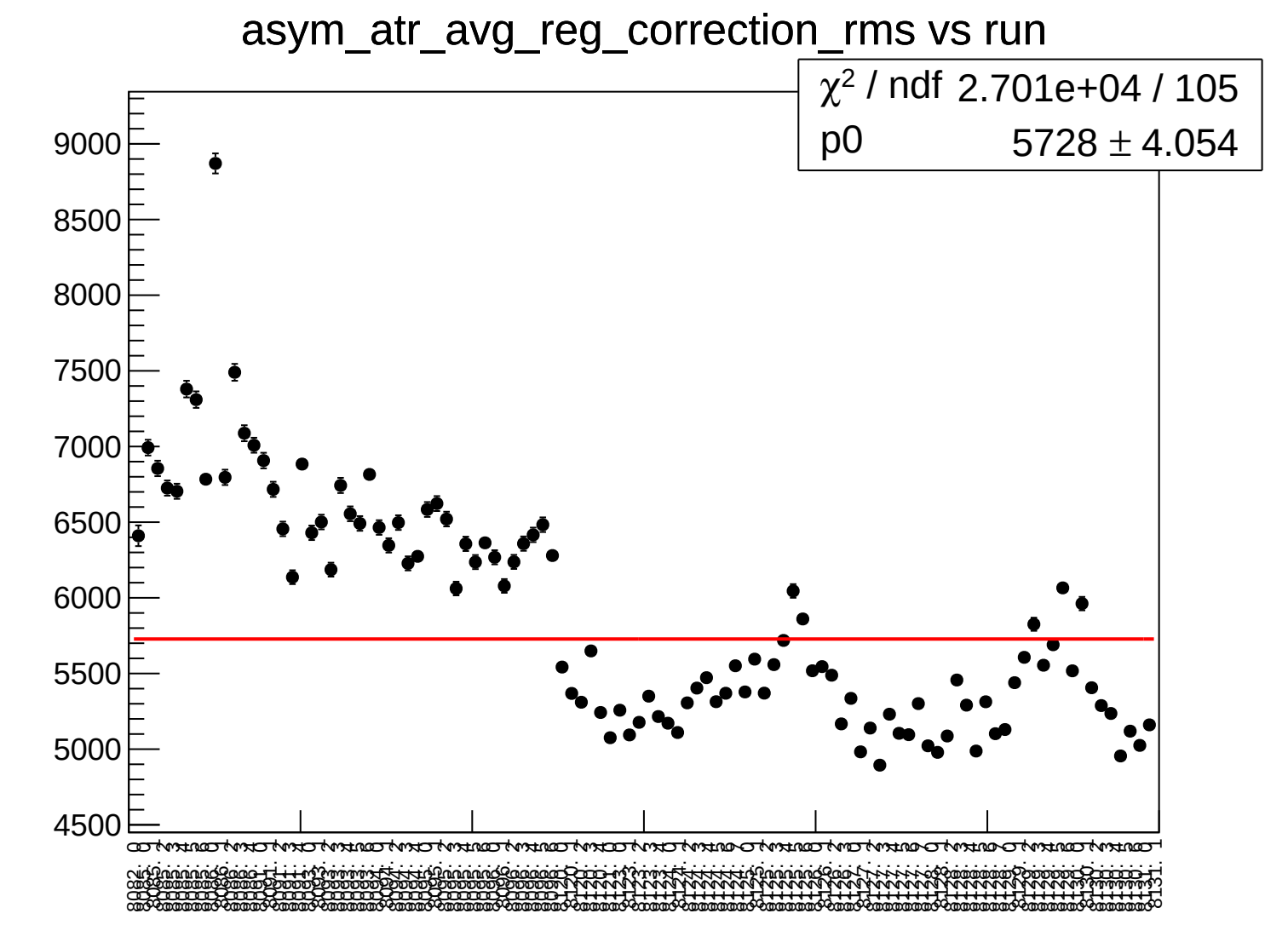

reg_asym_atr_avg_mean vs run
χ² / ndf 102.2 / 105
p0 −2835 ± 1798
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean −578.5
Std Dev 0
2
1
0
−1
−2

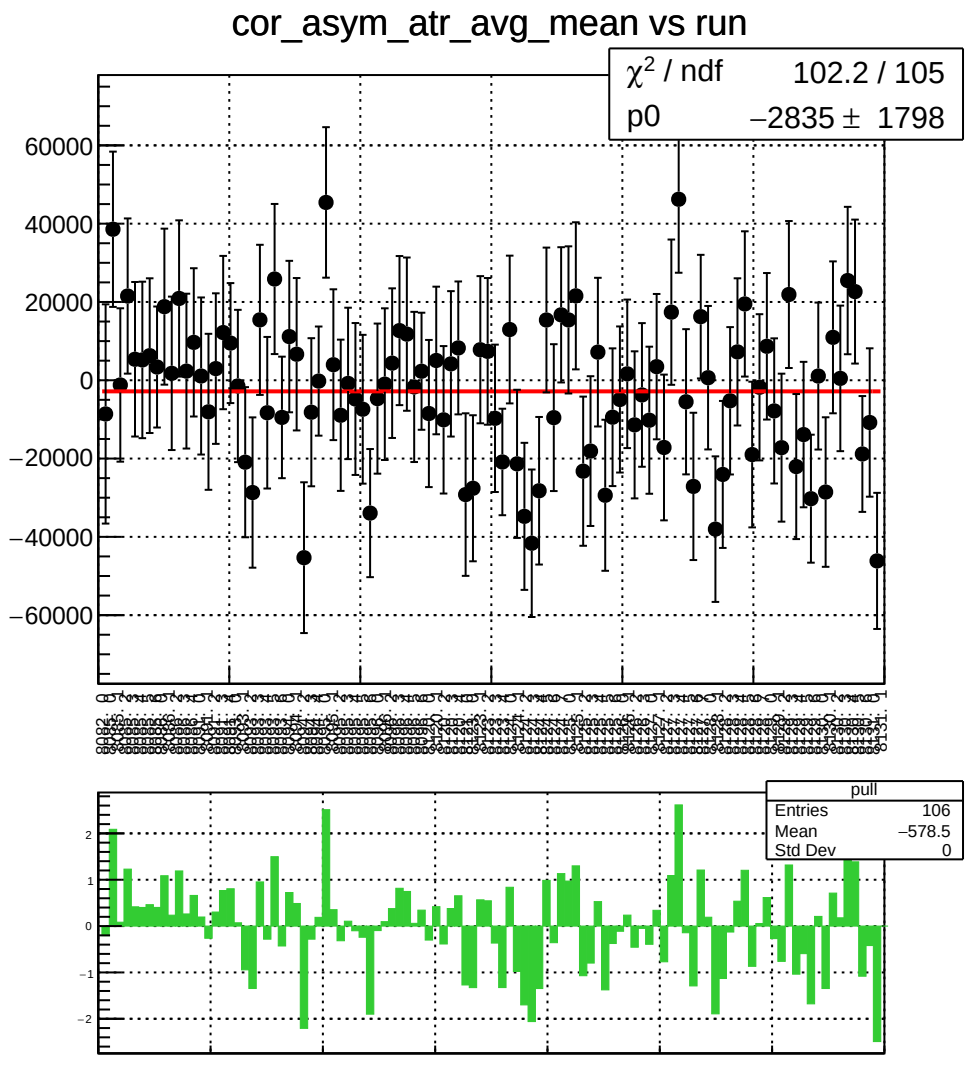

pull1D
Entries 106
Mean 0.009994
Std Dev 0.982
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

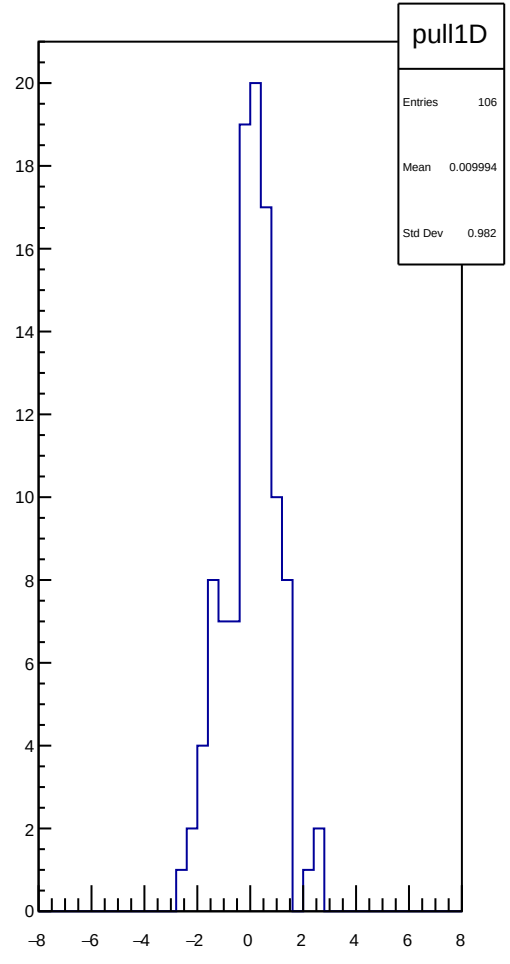

reg_asym_atr_avg_rms vs run
$\chi^2$ / ndf 998.4 / 105
p0 1808 ± 1.271
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760
1740
1720

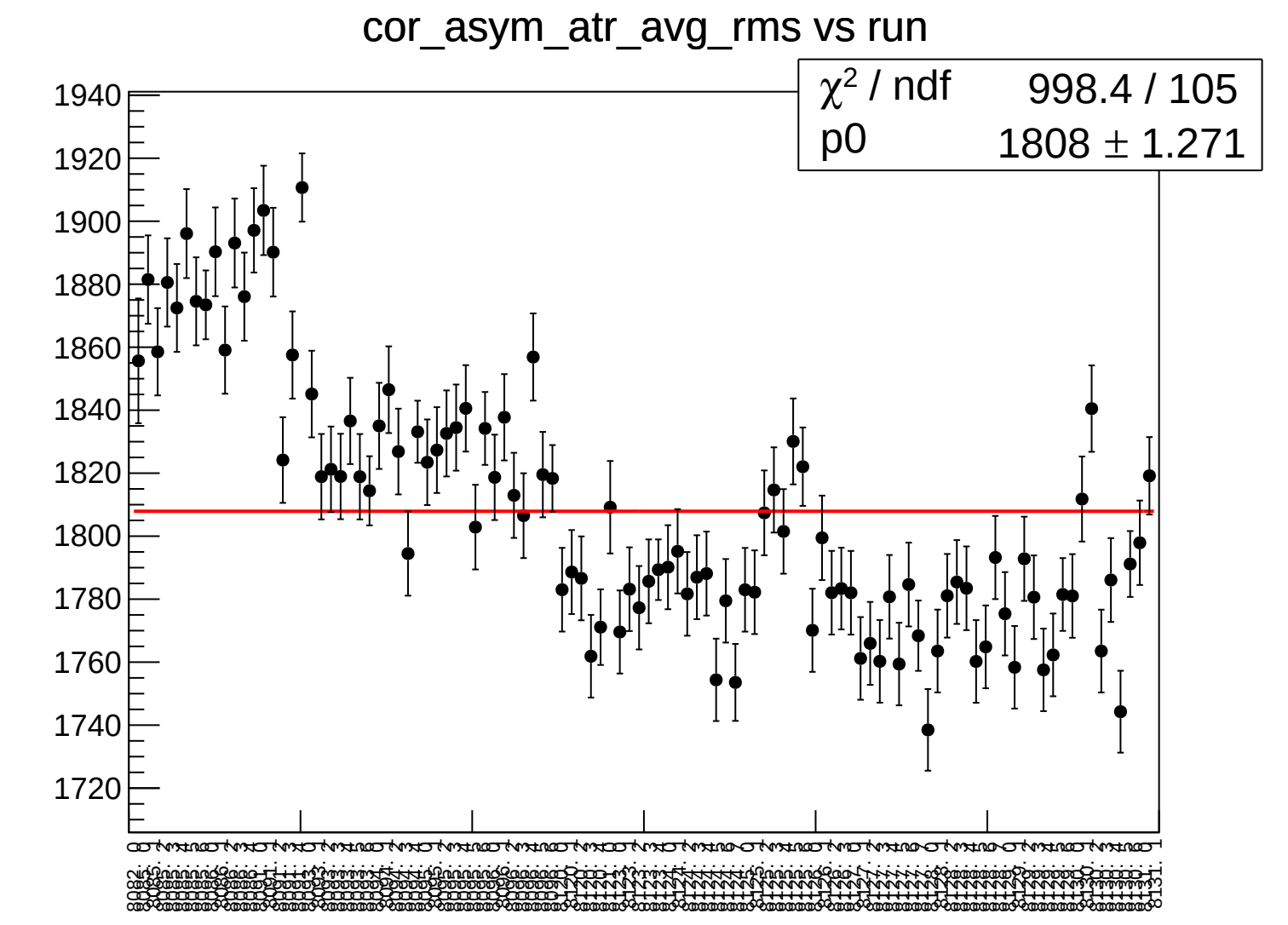

asym_atr_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 89.04 / 105
p0 9754 ± 5734
300
200
100
0
−100
−200
pull
Entries 106
Mean −222.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

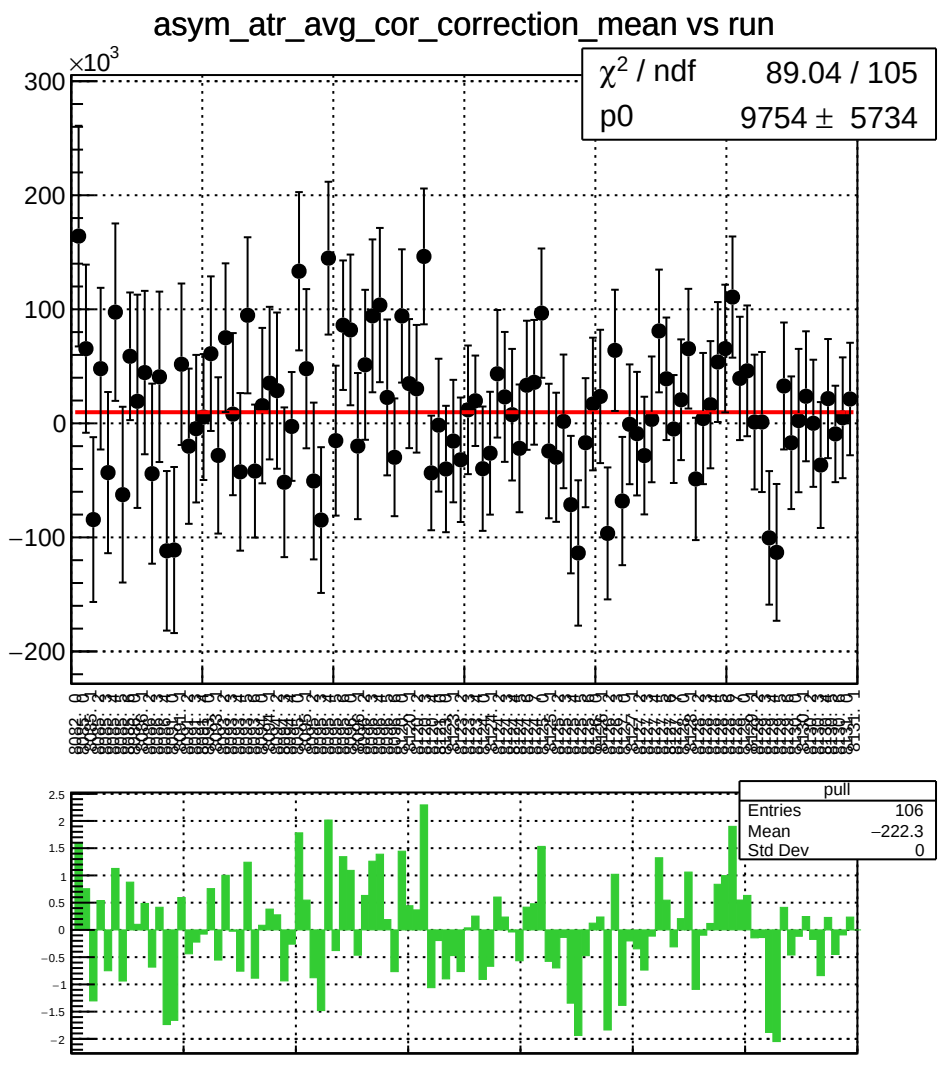

pull1D
Entries 106
Mean 0.008279
Std Dev 0.9165
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

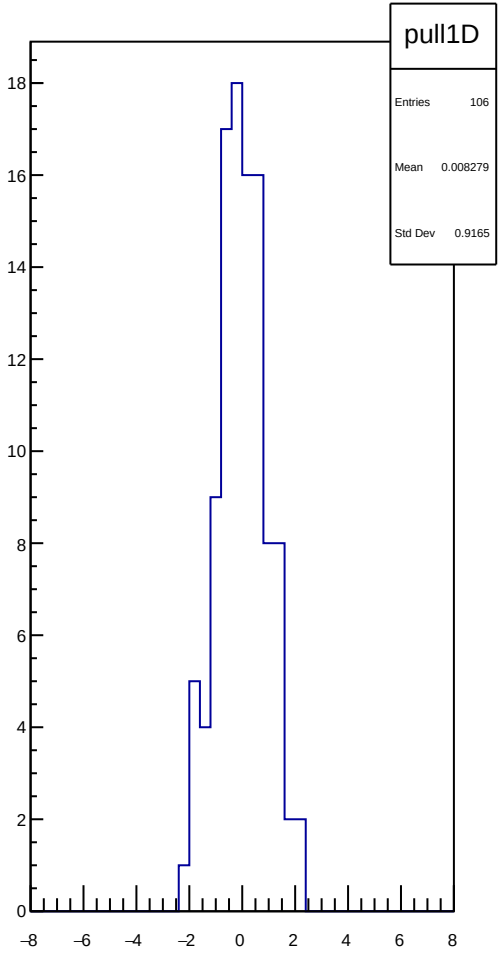

asym_atr_avg_reg_correction_rms vs run
χ² / ndf 2.701e+04 / 105
p0 5728 ± 4.054
9000
8500
8000
7500
7000
6500
6000
5500
5000
4500

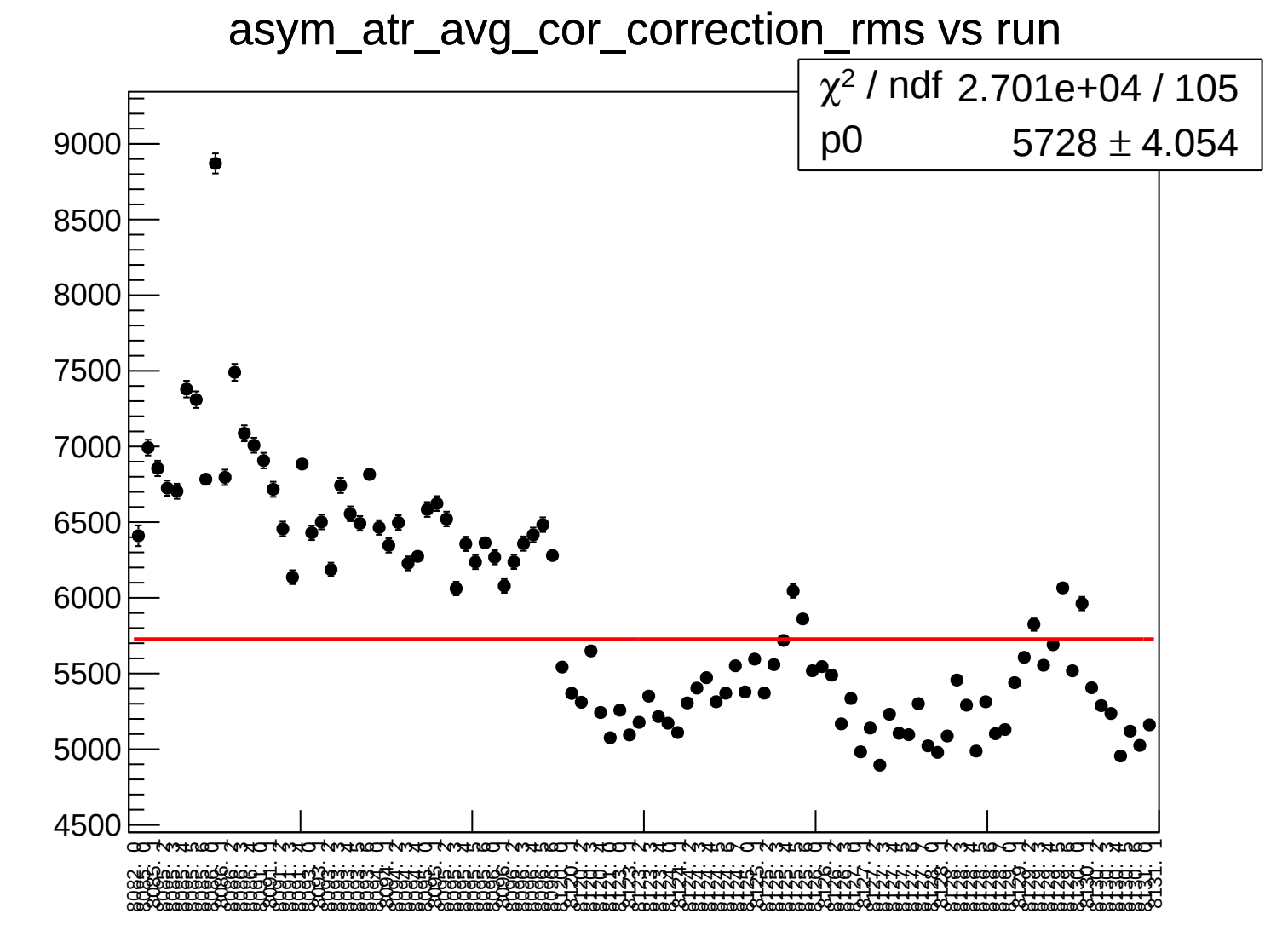

cor_asym_atr_avg_mean vs run
χ² / ndf 102.2 / 105
p0 −2835 ± 1798
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean −578.5
Std Dev 0
2
1
0
−1
−2

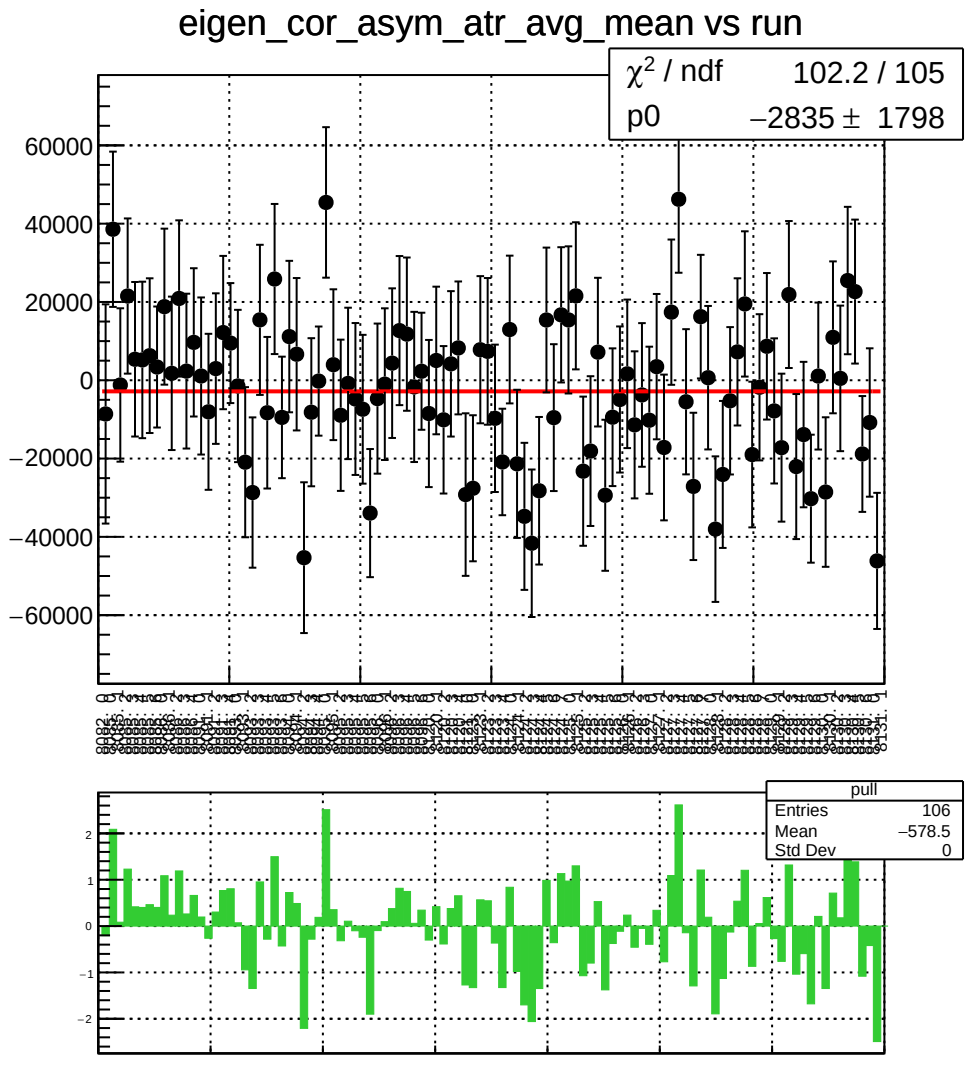

pull1D
Entries 106
Mean 0.009994
Std Dev 0.982
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

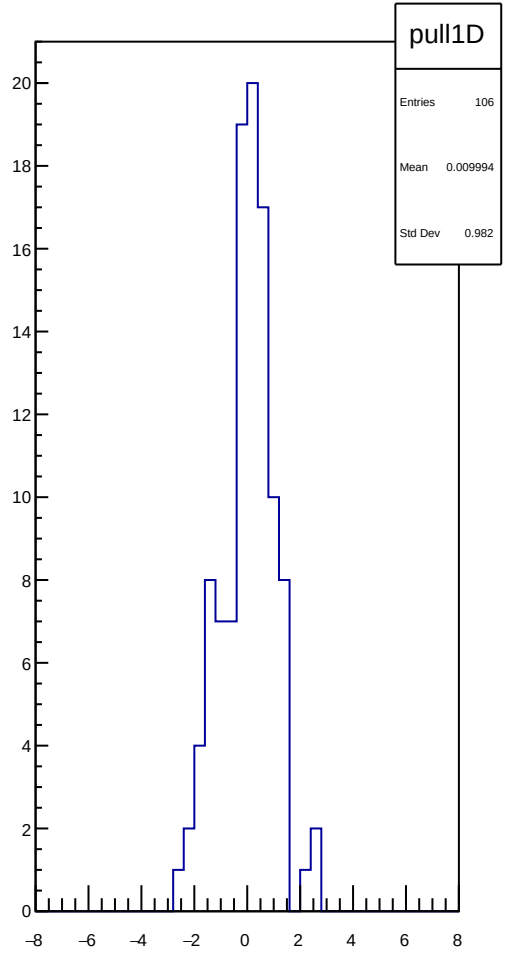

cor_asym_atr_avg_rms vs run
χ² / ndf 998.4 / 105
p0 1808 ± 1.271
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760
1740
1720

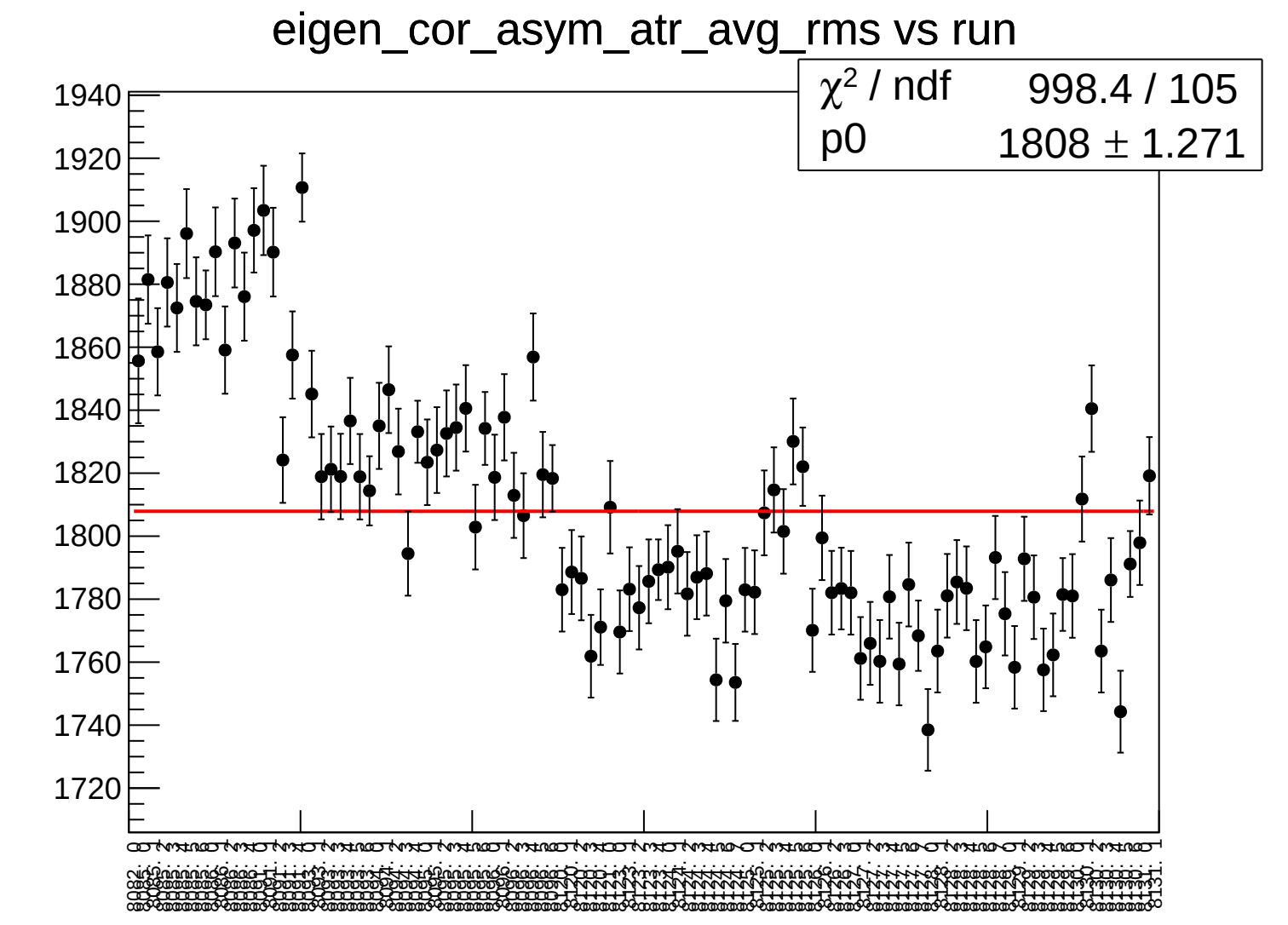

asym_atr_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 89.04 / 105
p0 9754 ± 5734
pull
Entries 106
Mean −222.3
Std Dev 0

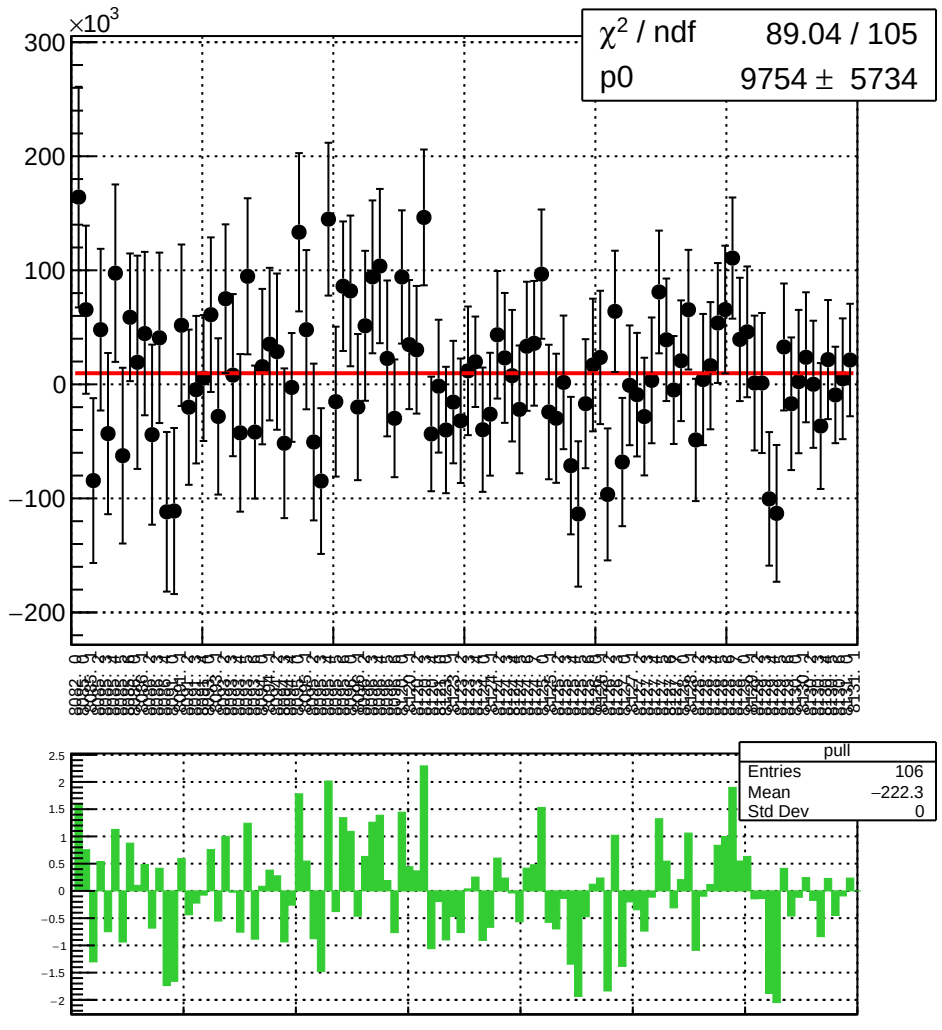

pull1D
Entries 106
Mean 0.008279
Std Dev 0.9165

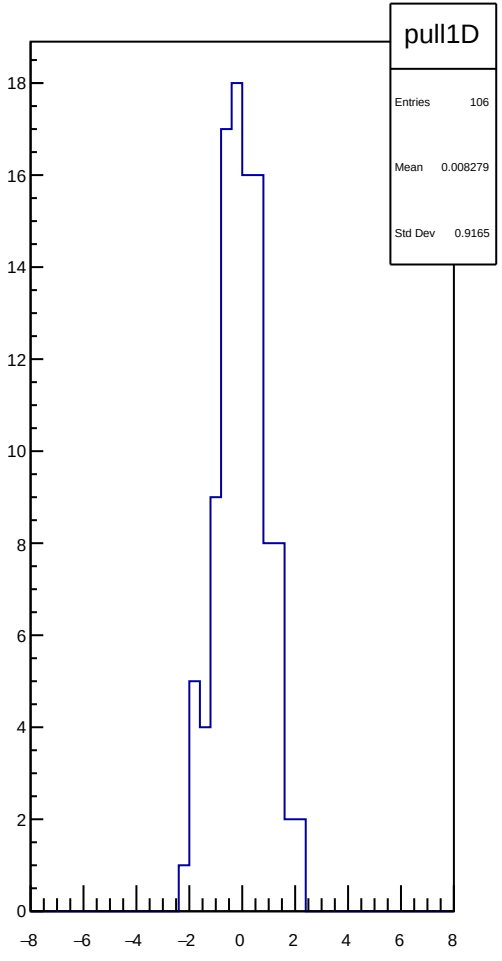

asym_atr_avg_cor_correction_rms vs run
χ² / ndf 2.701e+04 / 105
p0 5728 ± 4.054
9000
8500
8000
7500
7000
6500
6000
5500
5000
4500

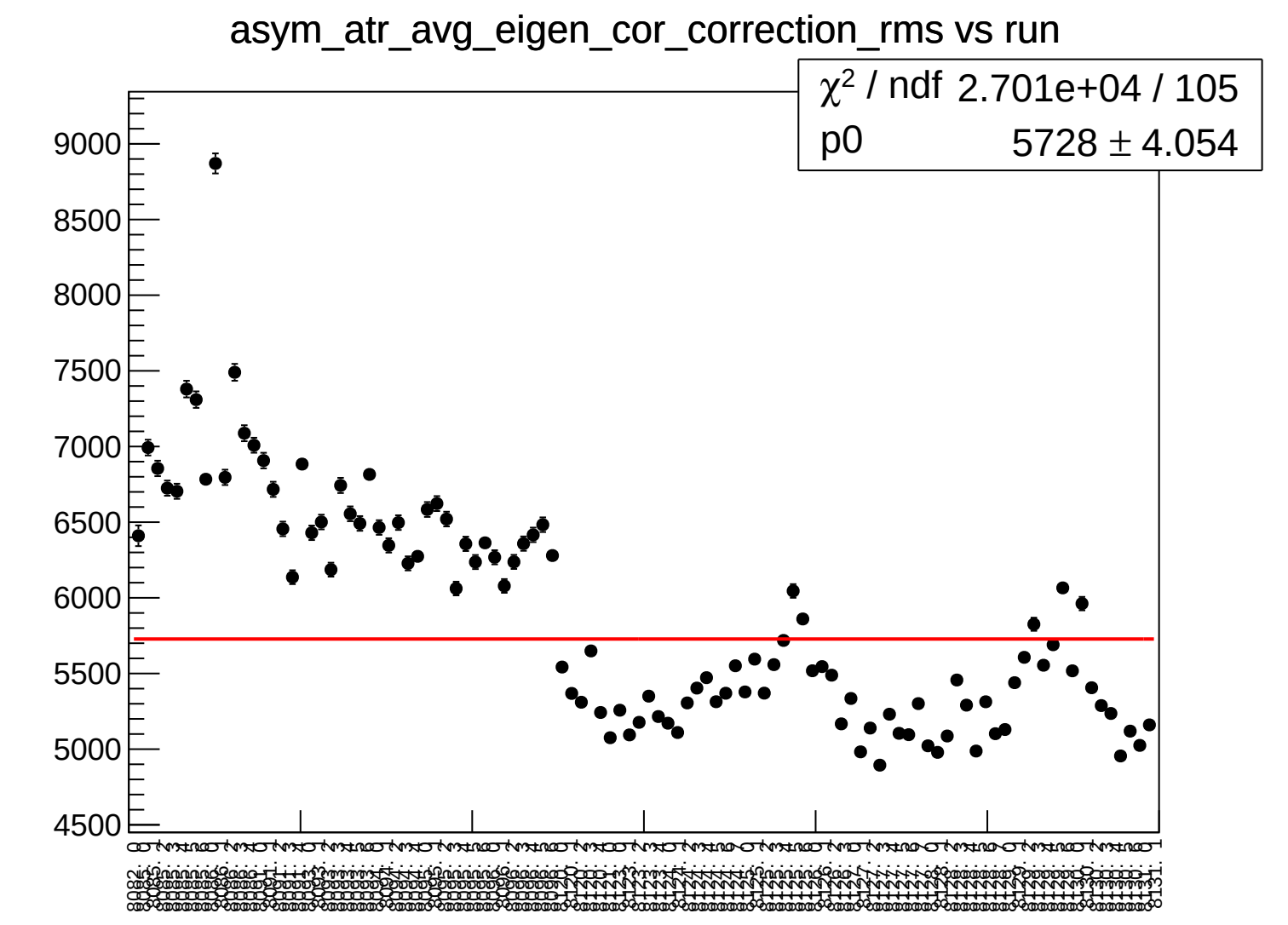

eigen_cor_asym_atr_avg_mean vs run
χ² / ndf 102.2 / 105
p0 −2835 ± 1798
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean −578.5
Std Dev 0
2
1
0
−1
−2

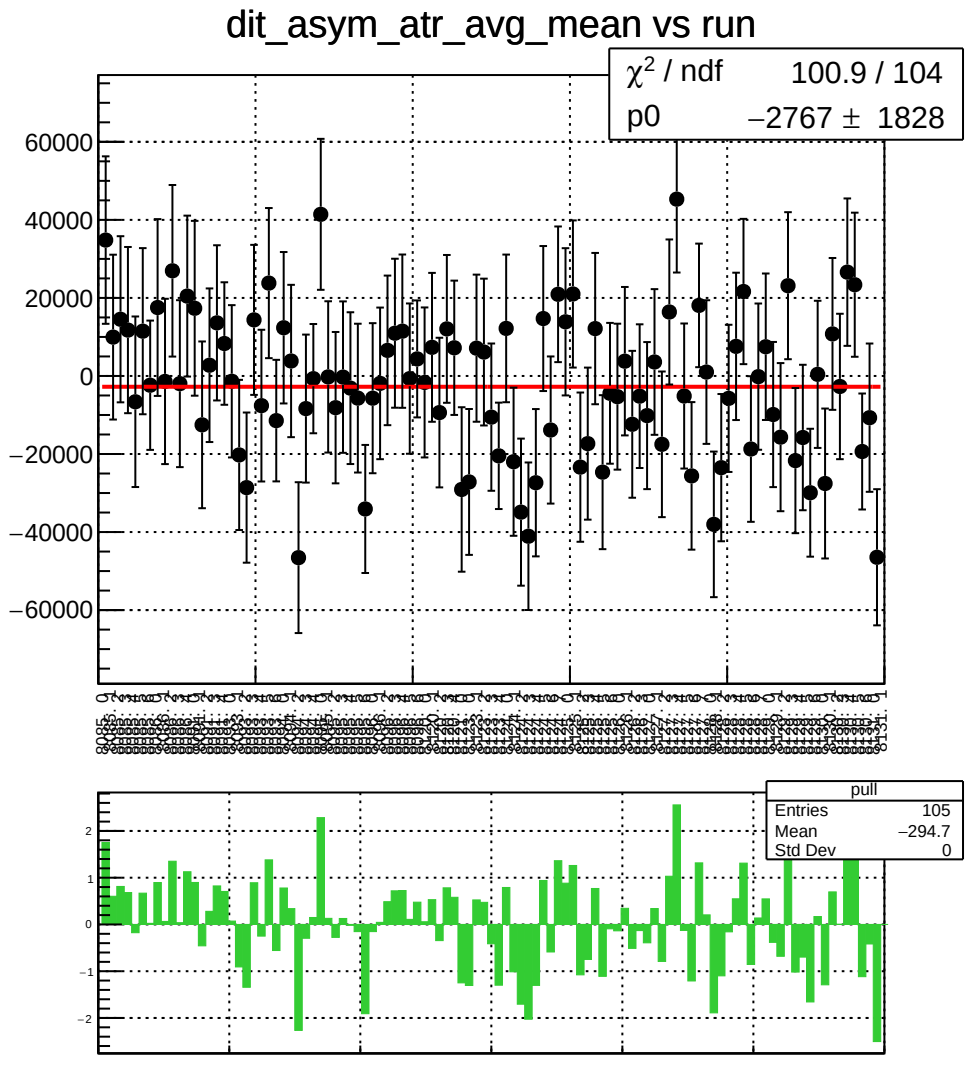

pull1D
Entries 106
Mean 0.009994
Std Dev 0.982
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

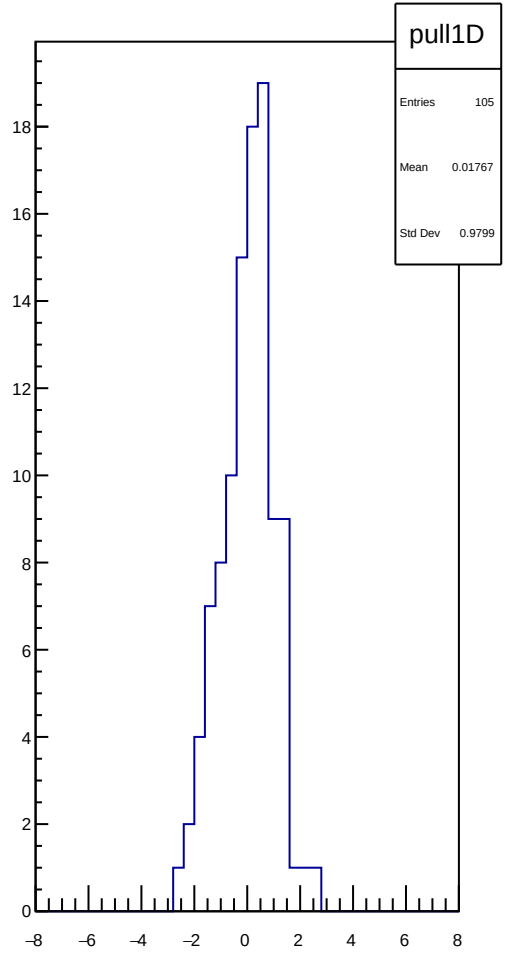

eigen_cor_asym_atr_avg_rms vs run
χ² / ndf 998.4 / 105
p0 1808 ± 1.271
1940
1920
1900
1880
1860
1840
1820
1800
1780
1760
1740
1720

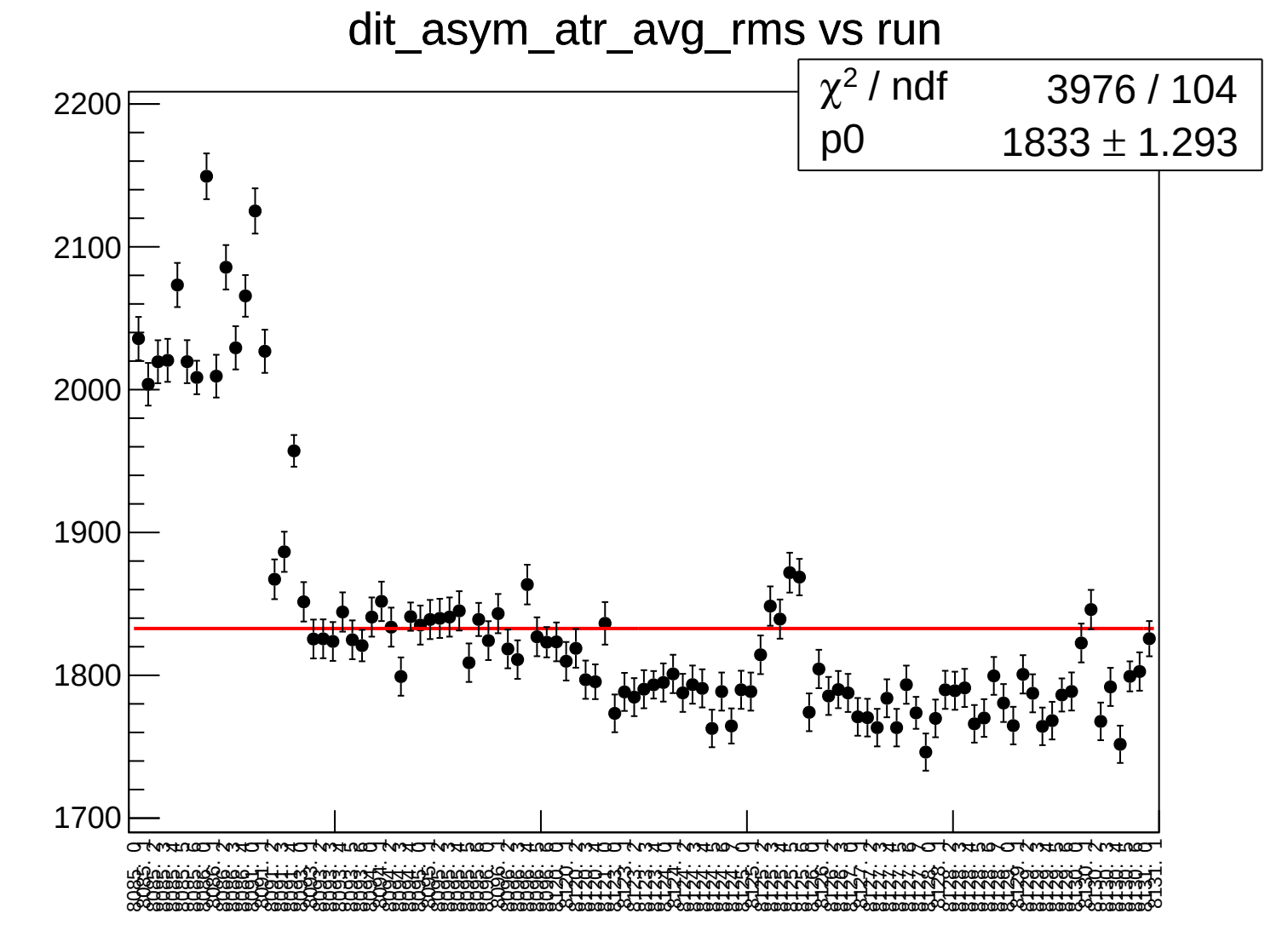

asym_atr_avg_eigen_cor_correction_mean vs run
χ² / ndf 89.04 / 105
p0 9754 ± 5734
pull
Entries 106
Mean −222.3
Std Dev 0

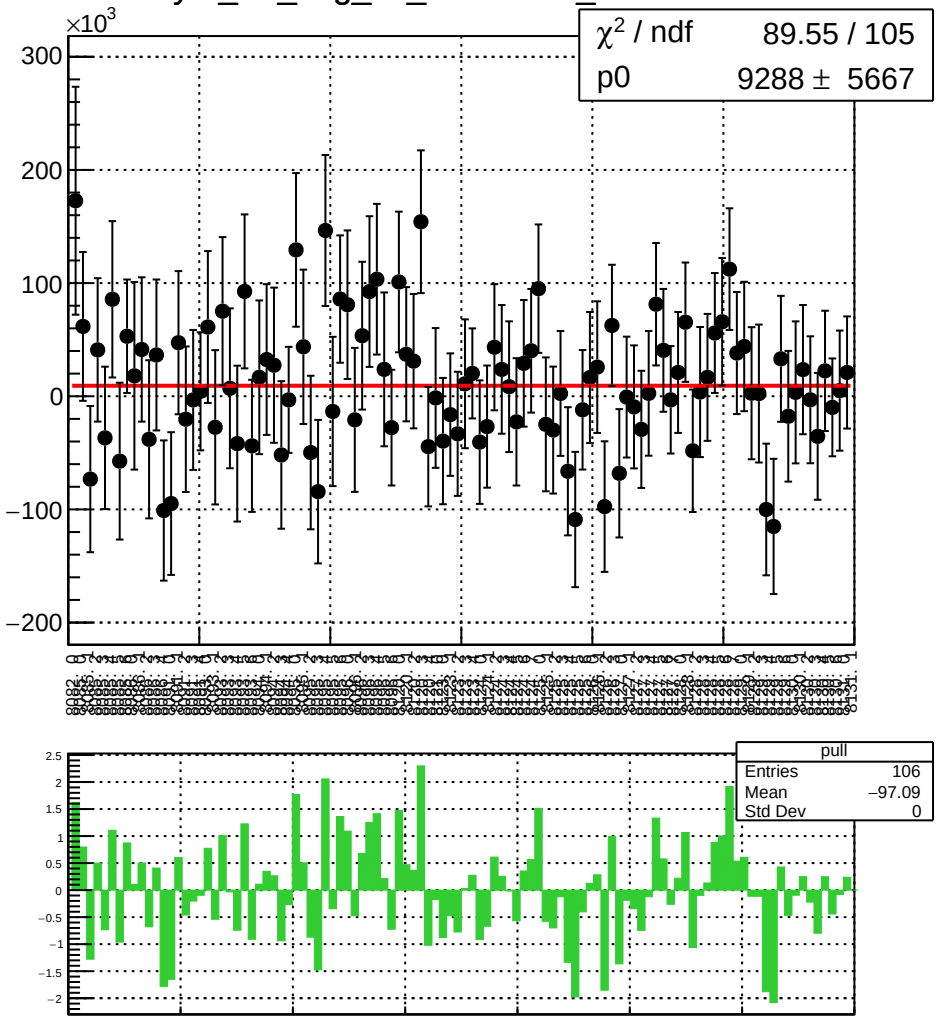

pull1D
Entries 106
Mean 0.008279
Std Dev 0.9165

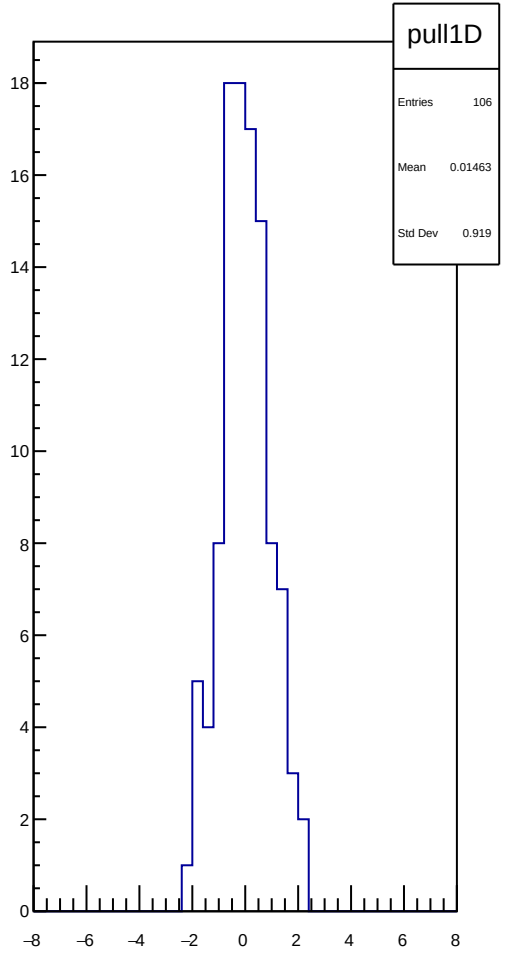

asym_atr_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.701e+04 / 105
p0 5728 ± 4.054
9000
8500
8000
7500
7000
6500
6000
5500
5000
4500

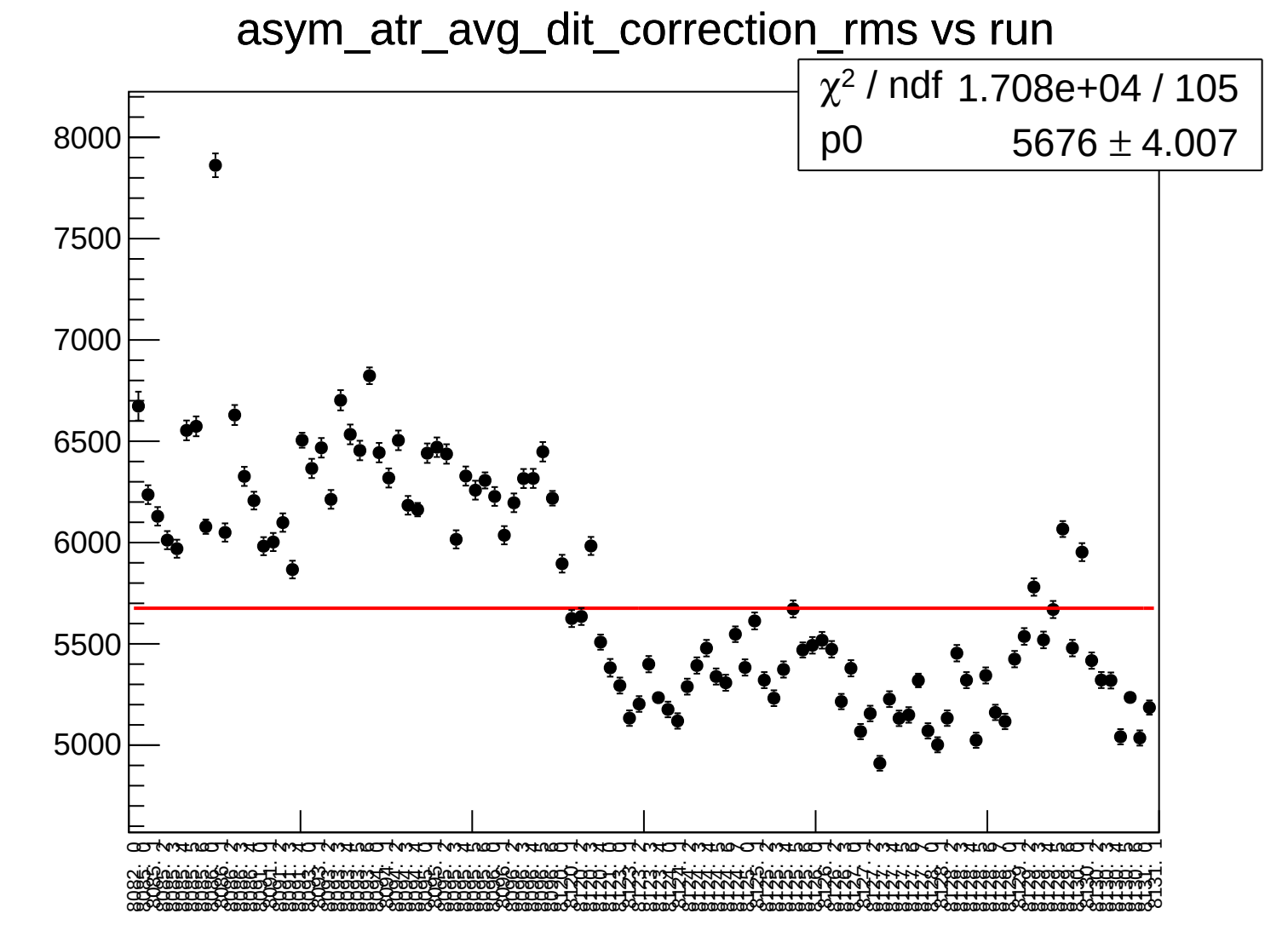

dit_asym_atr_avg_mean vs run
χ² / ndf 100.9 / 104
p0 −2767 ± 1828
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean −294.7
Std Dev 0
2
1
0
−1
−2

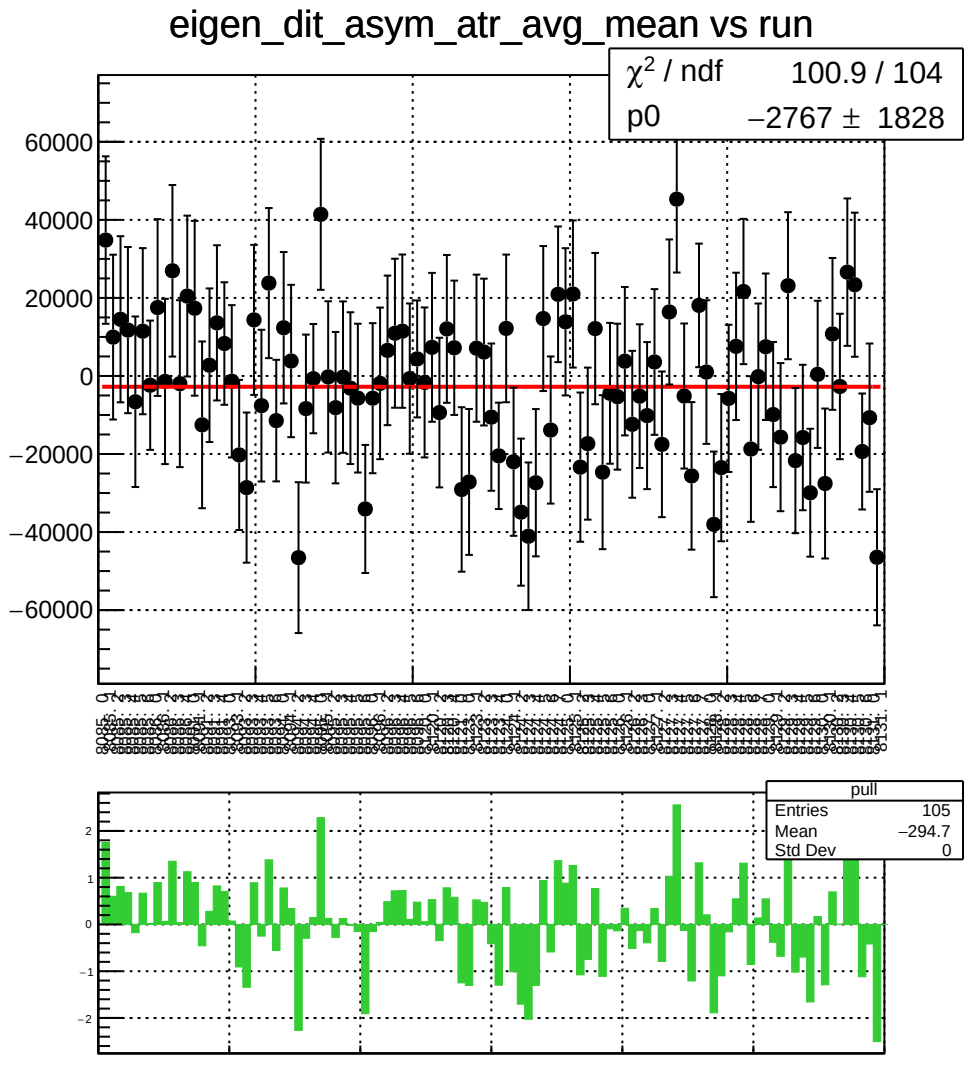

pull1D
Entries 105
Mean 0.01767
Std Dev 0.9799
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

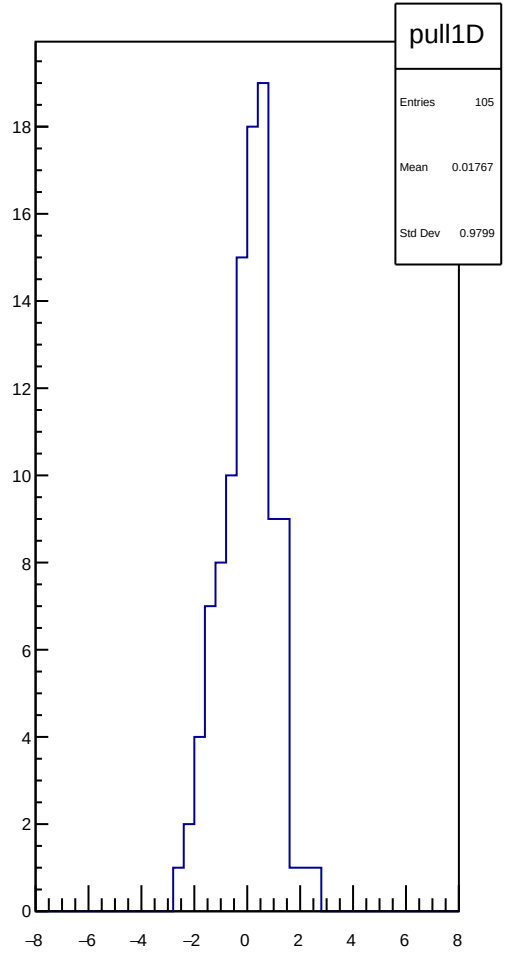

dit_asym_atr_avg_rms vs run
$\chi^2$ / ndf 3976 / 104
p0 1833 ± 1.293
2200
2100
2000
1900
1800
1700

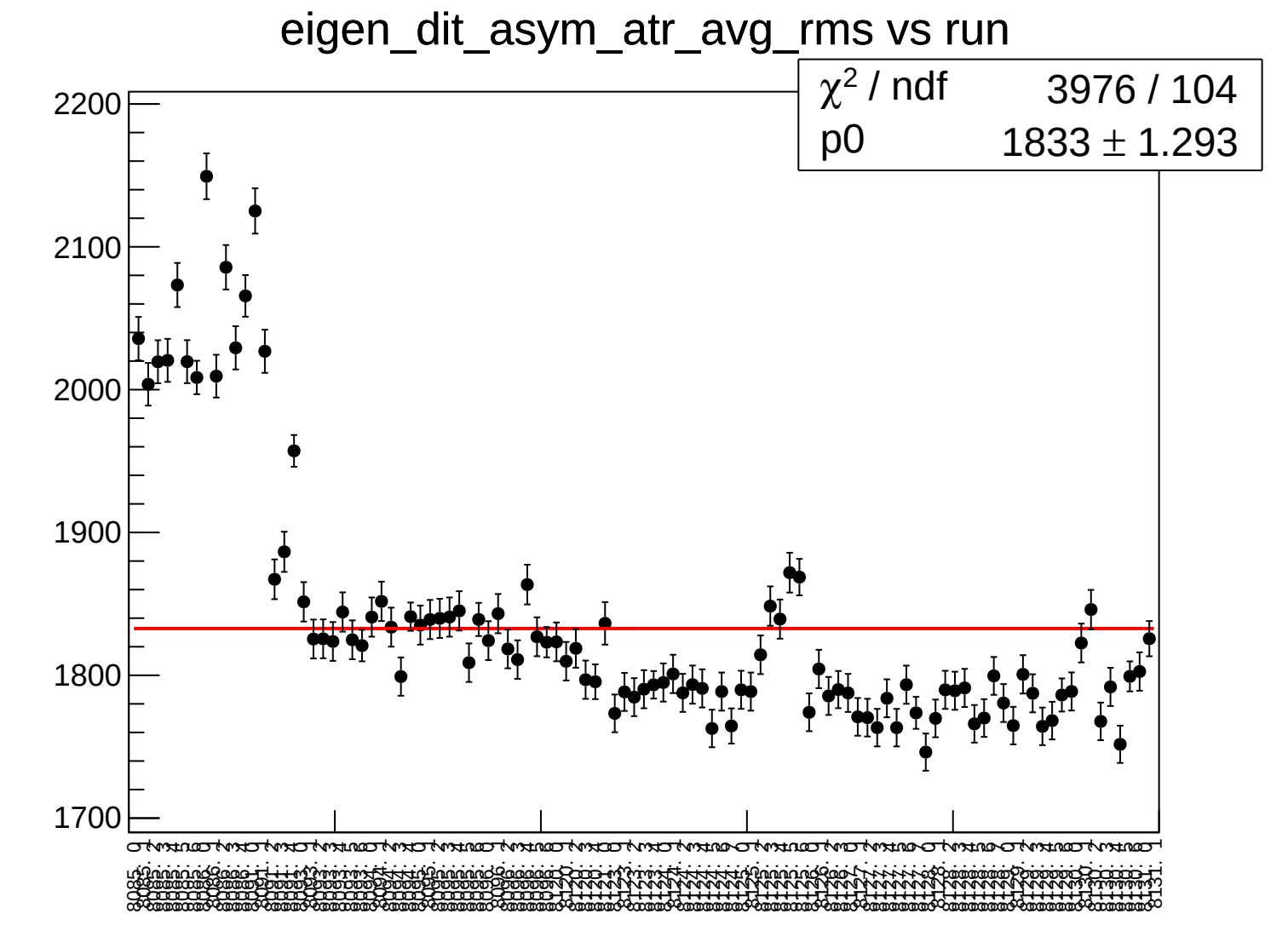

asym_atr_avg_dit_correction_mean vs run
×10^3
χ² / ndf 89.55 / 105
p0 9288 ± 5667
300
200
100
0
−100
−200
pull
Entries 106
Mean −97.09
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

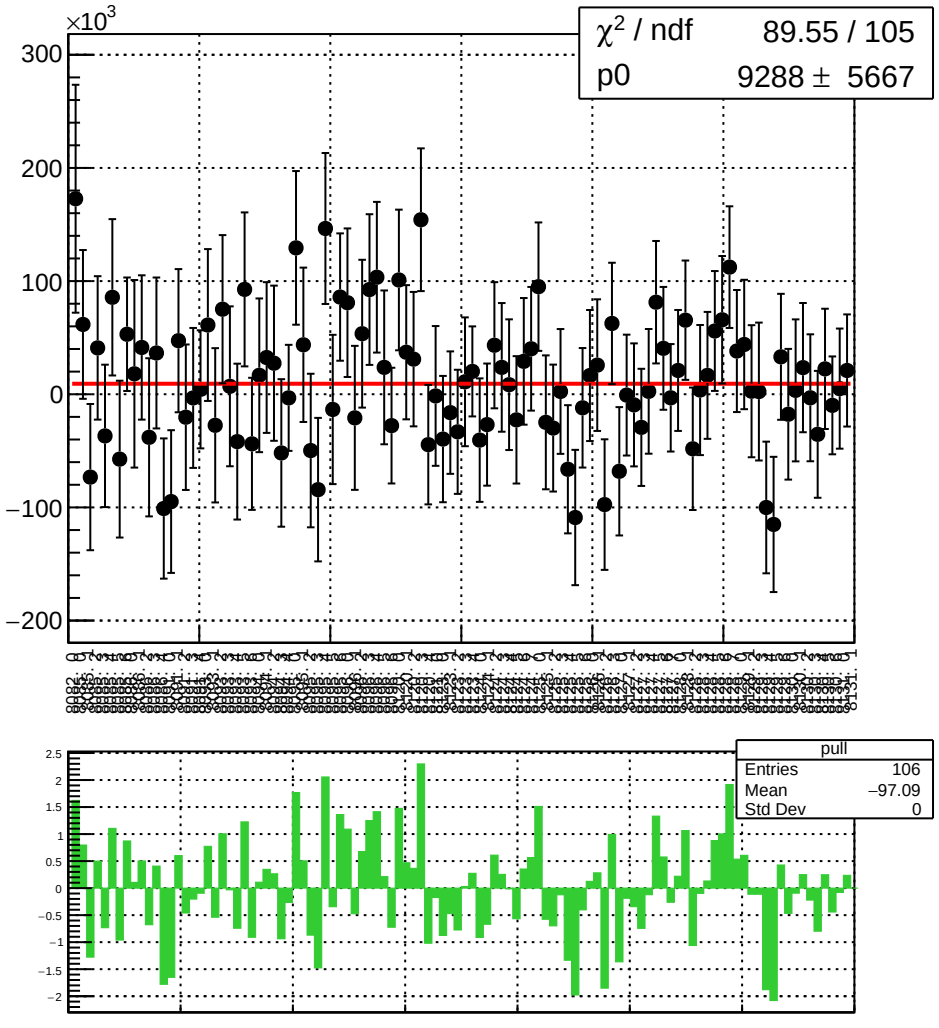

pull1D
Entries 106
Mean 0.01463
Std Dev 0.919
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

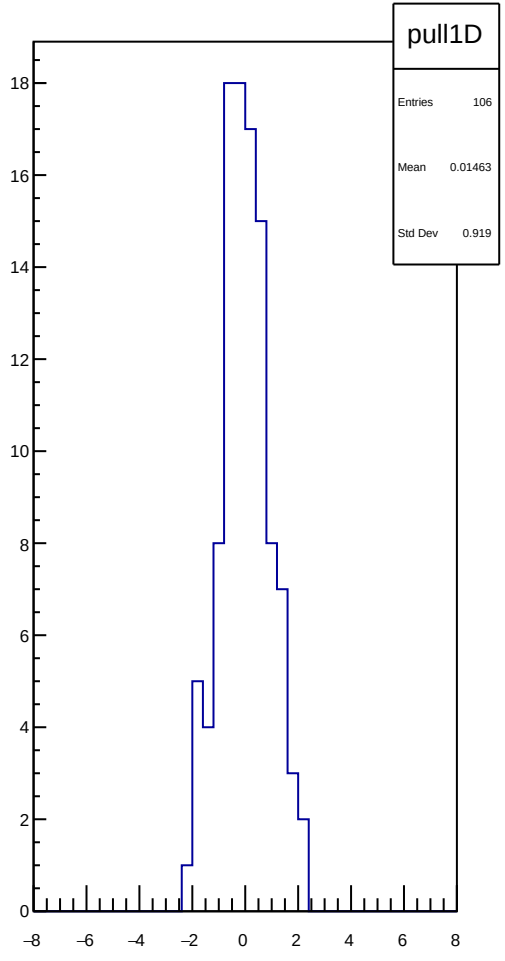

asym_atr_avg_dit_correction_rms vs run
χ² / ndf 1.708e+04 / 105
p0 5676 ± 4.007
8000
7500
7000
6500
6000
5500
5000

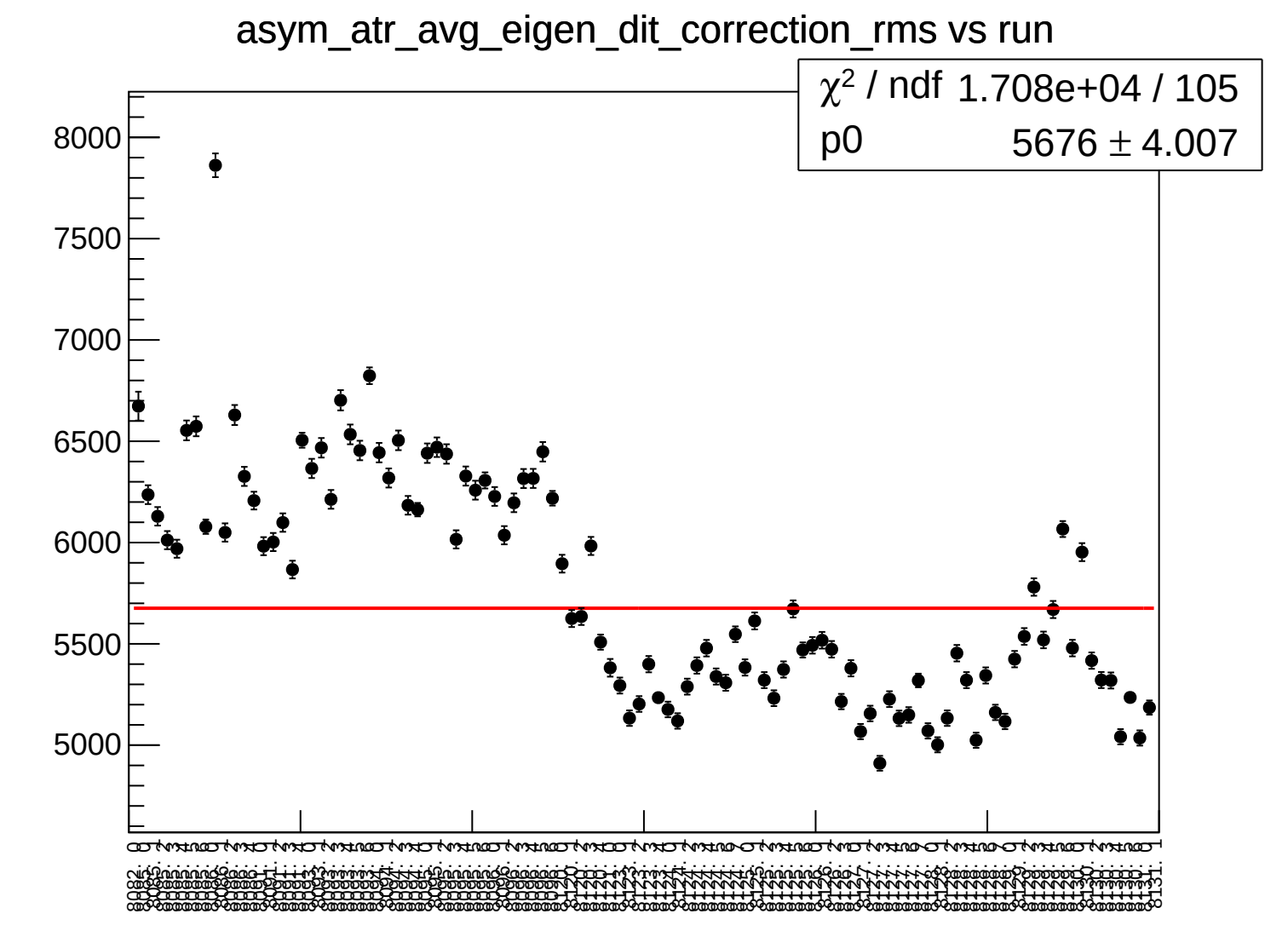

eigen_dit_asym_atr_avg_mean vs run
χ² / ndf 100.9 / 104
p0 −2767 ± 1828
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean −294.7
Std Dev 0
2
1
0
−1
−2

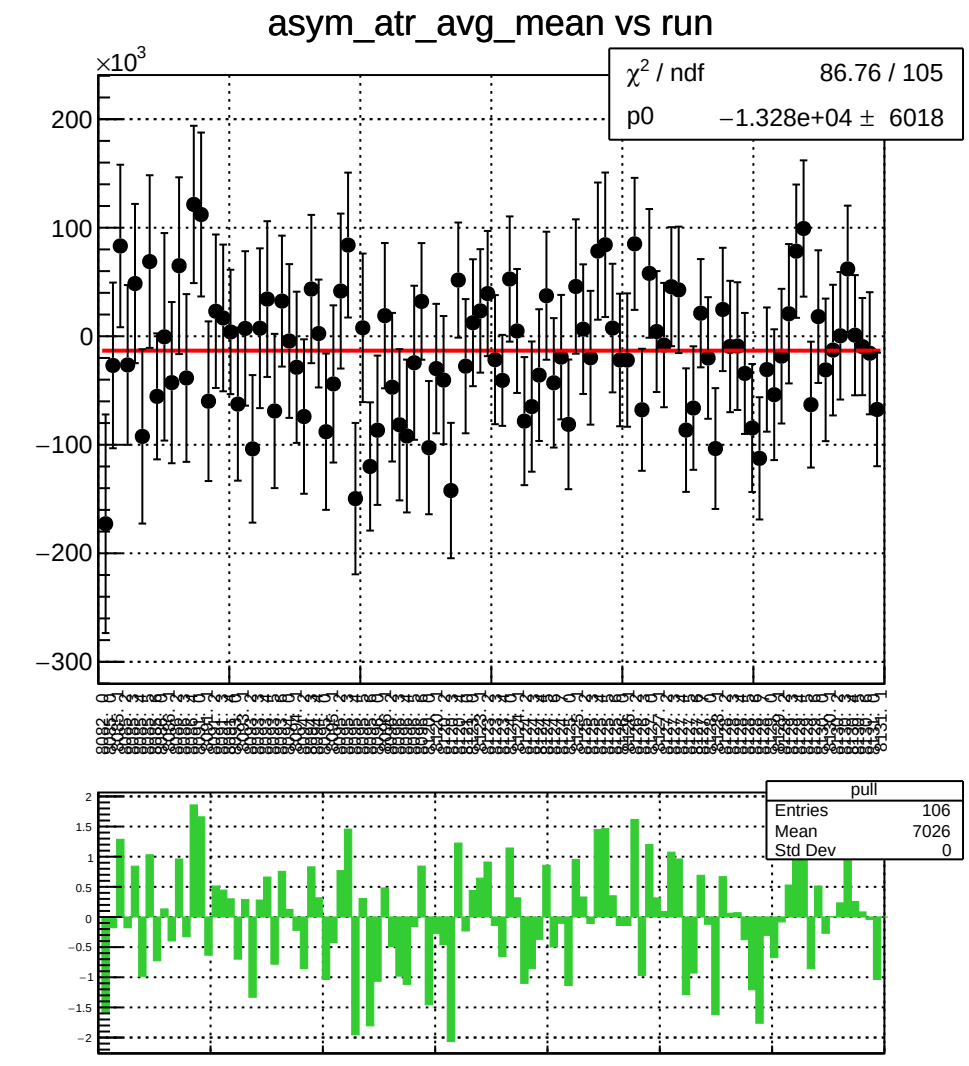

pull1D
Entries 105
Mean 0.01767
Std Dev 0.9799
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

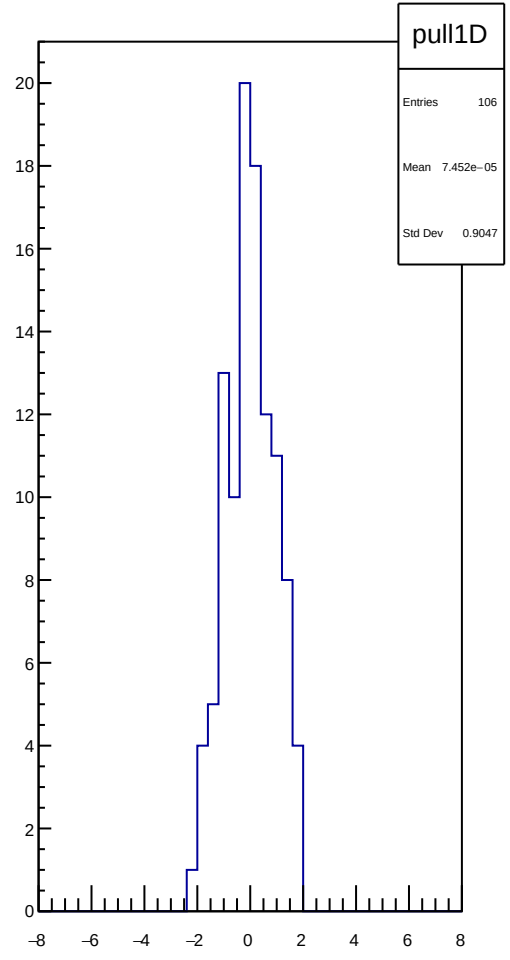

eigen_dit_asym_atr_avg_rms vs run
χ² / ndf 3976 / 104
p0 1833 ± 1.293
2200
2100
2000
1900
1800
1700

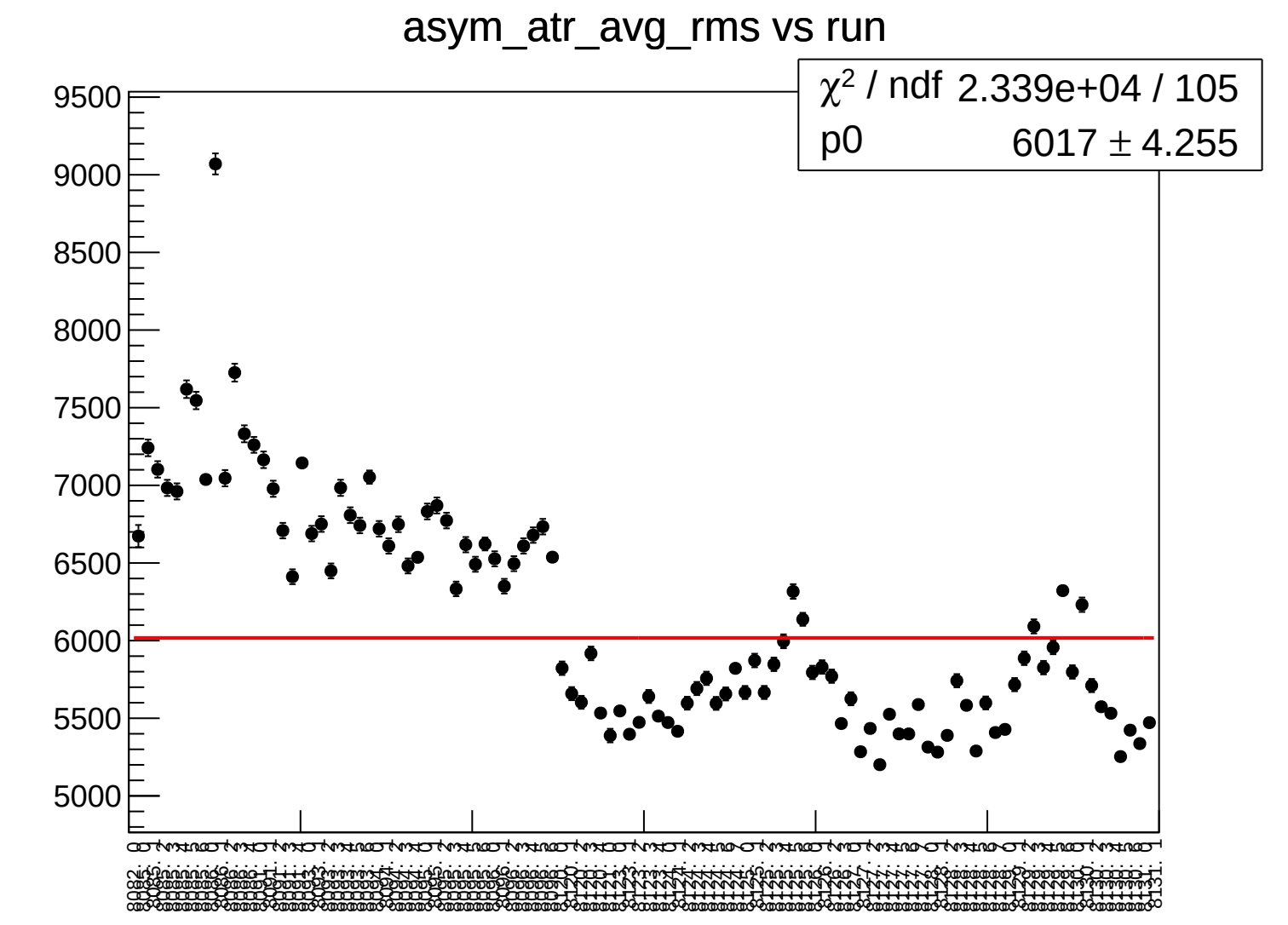

asym_atr_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 89.55 / 105
p0 9288 ± 5667
300
200
100
0
−100
−200
pull
Entries 106
Mean −97.09
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

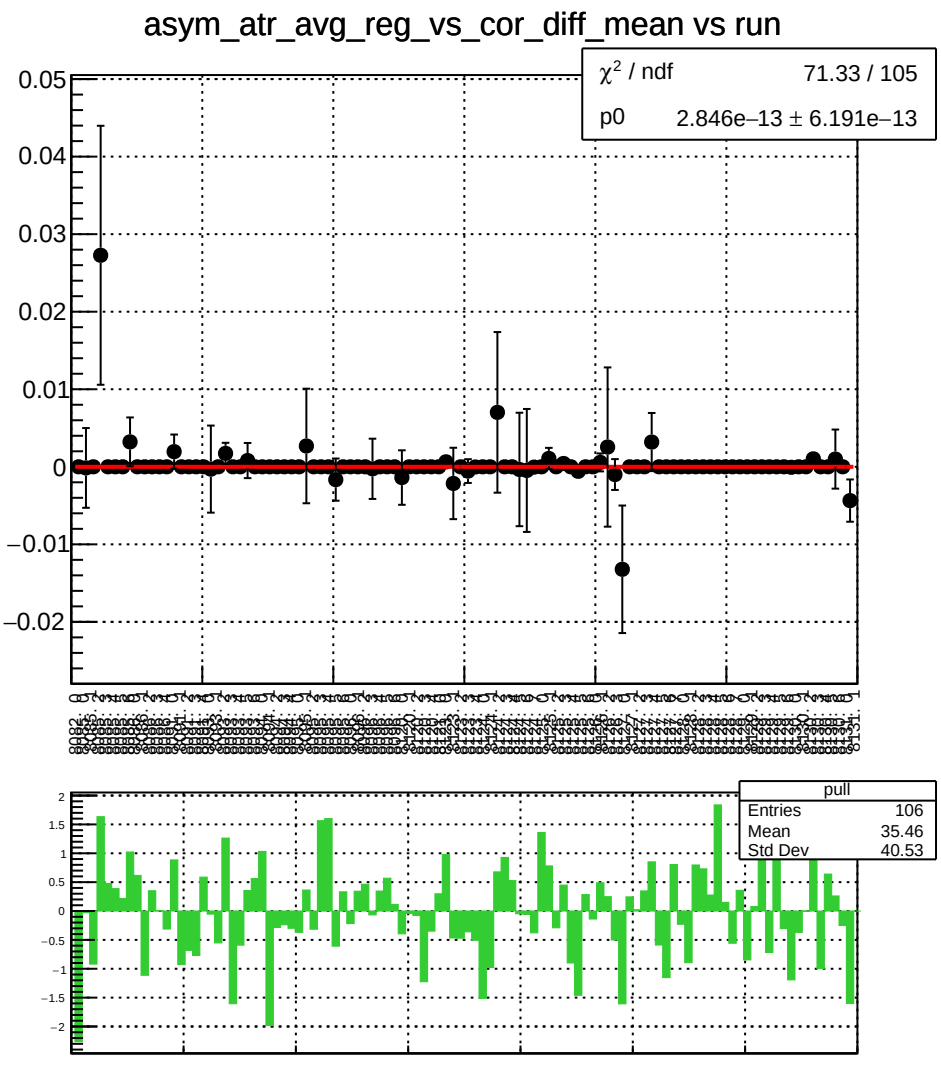

pull1D
Entries 106
Mean 0.01463
Std Dev 0.919
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

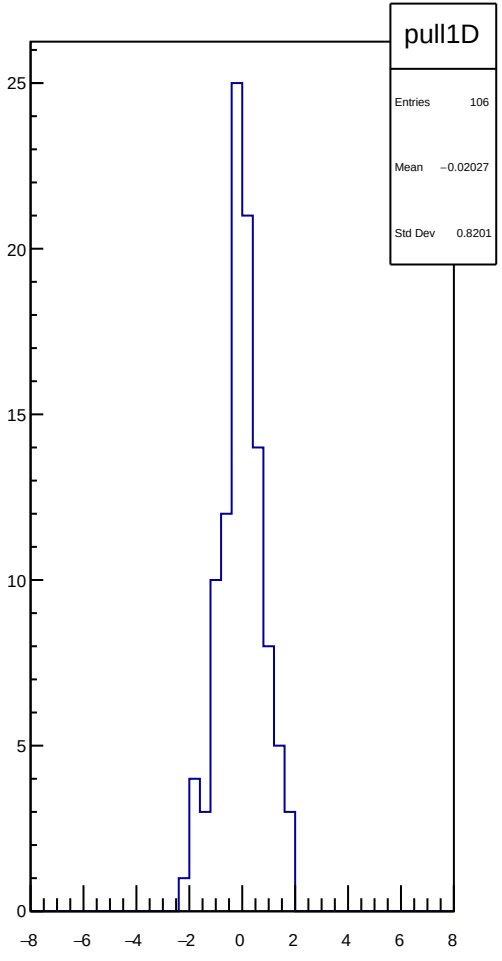

asym_atr_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.708e+04 / 105
p0 5676 ± 4.007
8000
7500
7000
6500
6000
5500
5000

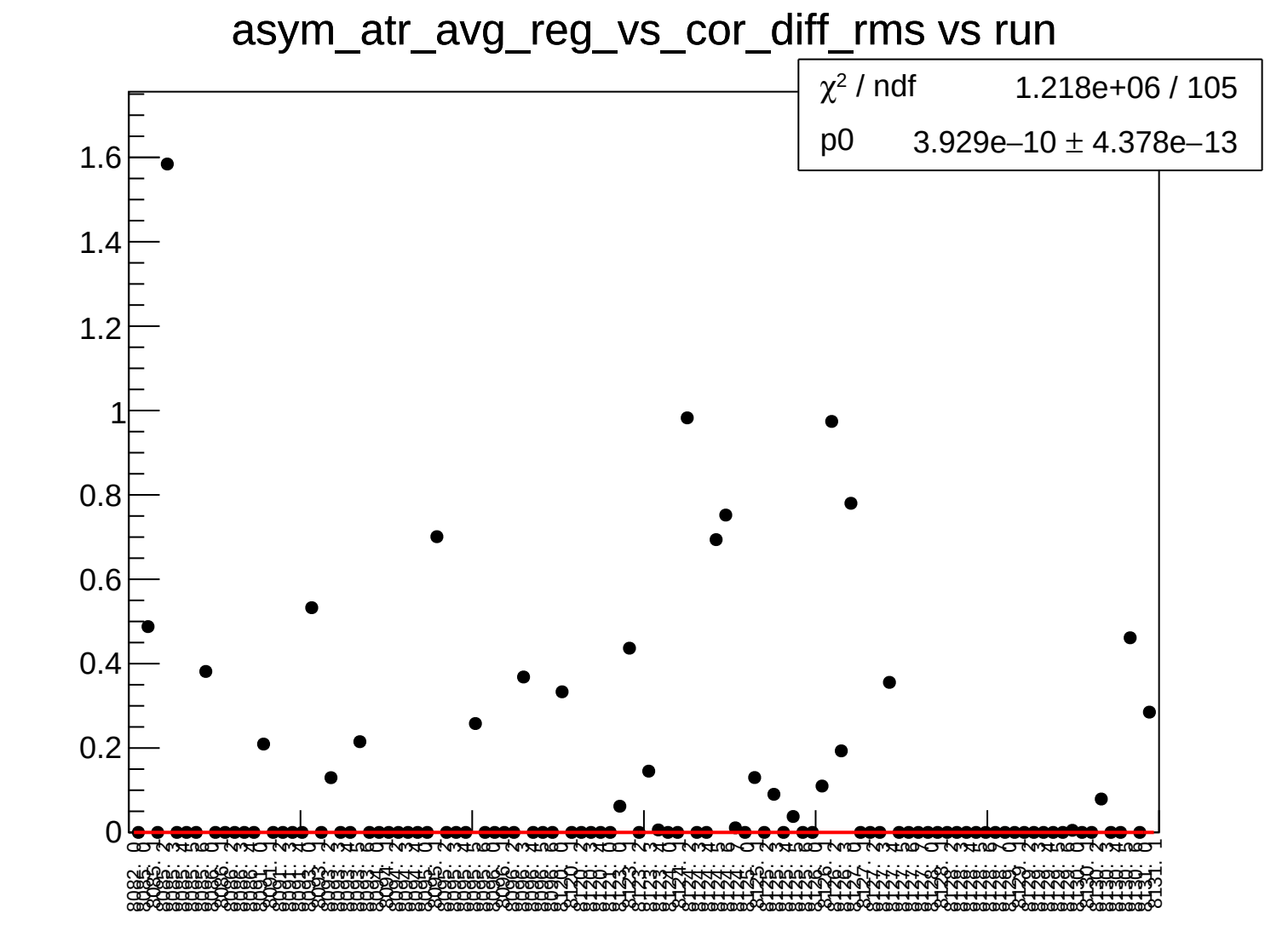

asym_atr_avg_mean vs run
×10^3
χ² / ndf 86.76 / 105
p0 −1.328e+04 ± 6018
pull
Entries 106
Mean 7026
Std Dev 0

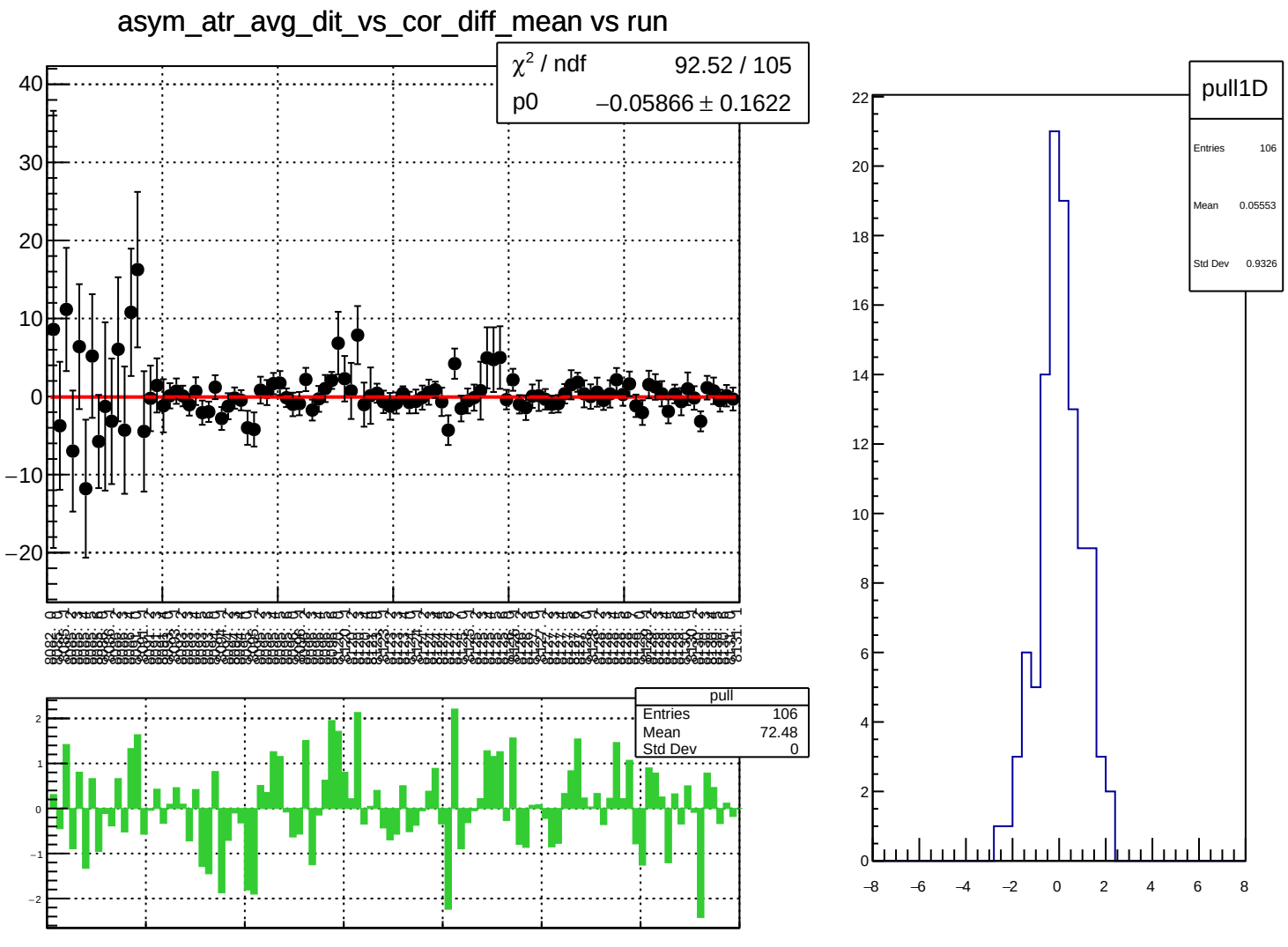

pull1D
Entries 106
Mean 7.452e−05
Std Dev 0.9047

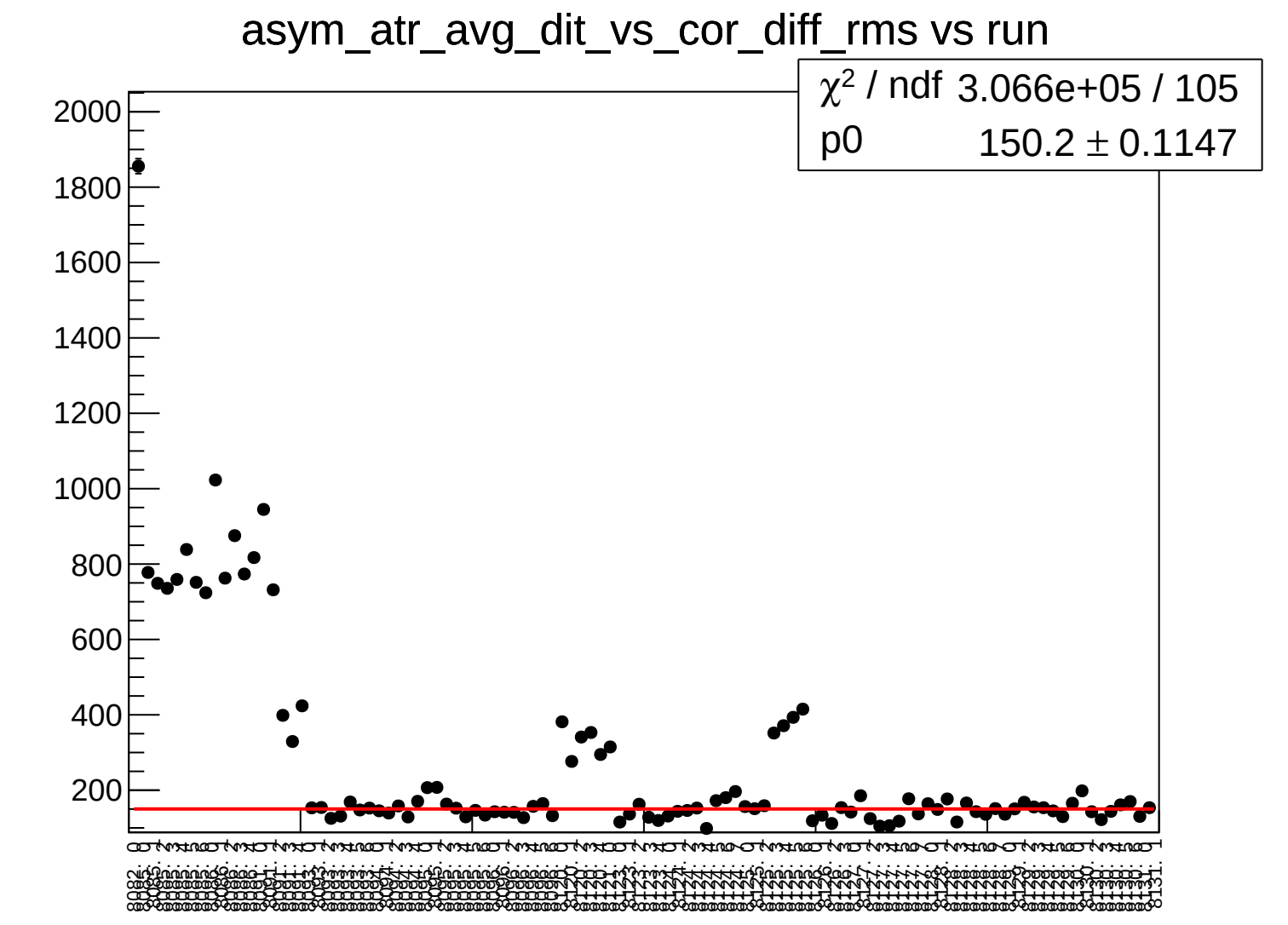

asym_atr_avg_rms vs run
$\chi^2$ / ndf 2.339e+04 / 105
p0 6017 ± 4.255
9500
9000
8500
8000
7500
7000
6500
6000
5500
5000

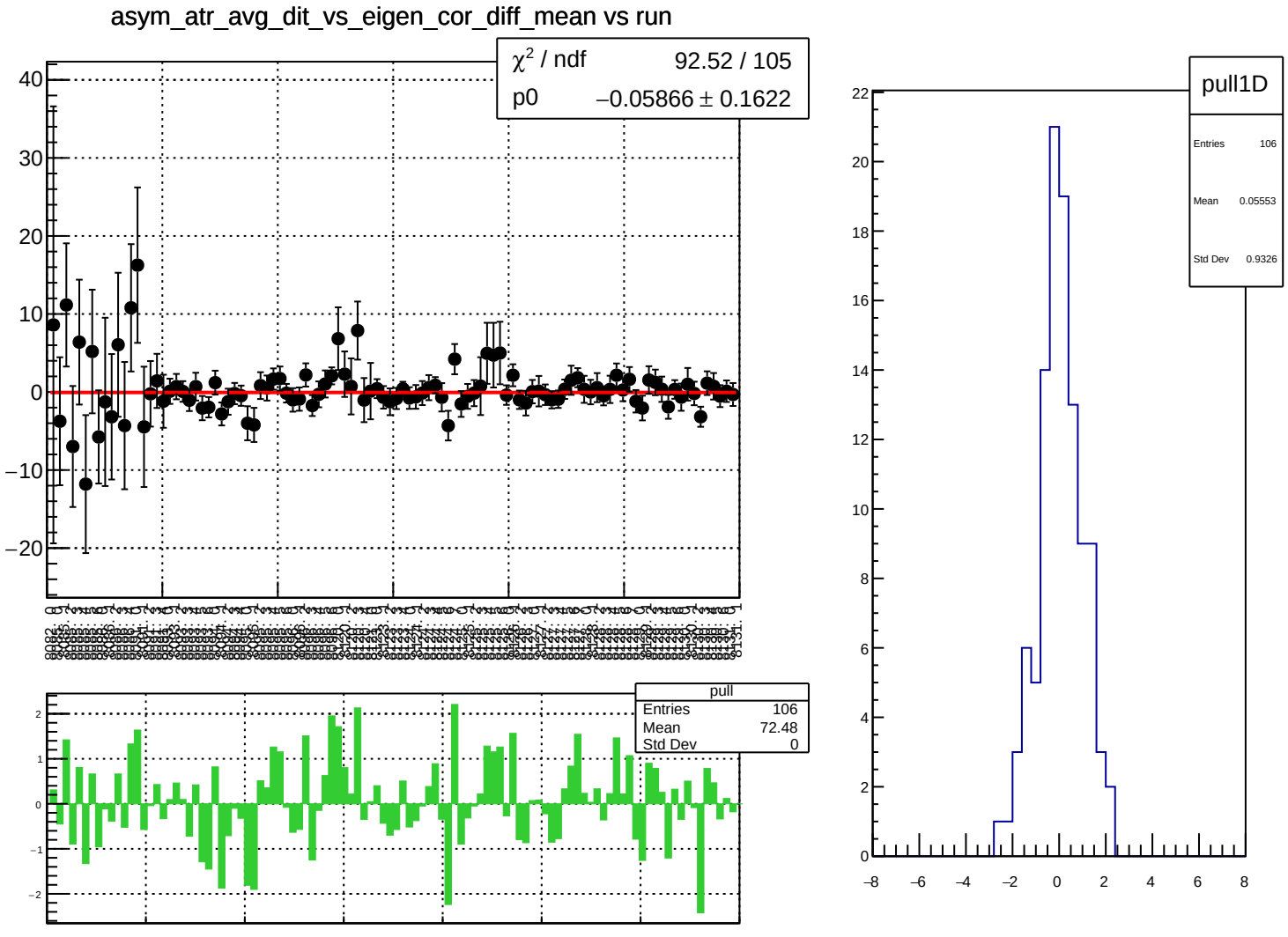

asym_atr_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 71.33 / 105
p0 2.846e−13 ± 6.191e−13
pull
Entries 106
Mean 35.46
Std Dev 40.53

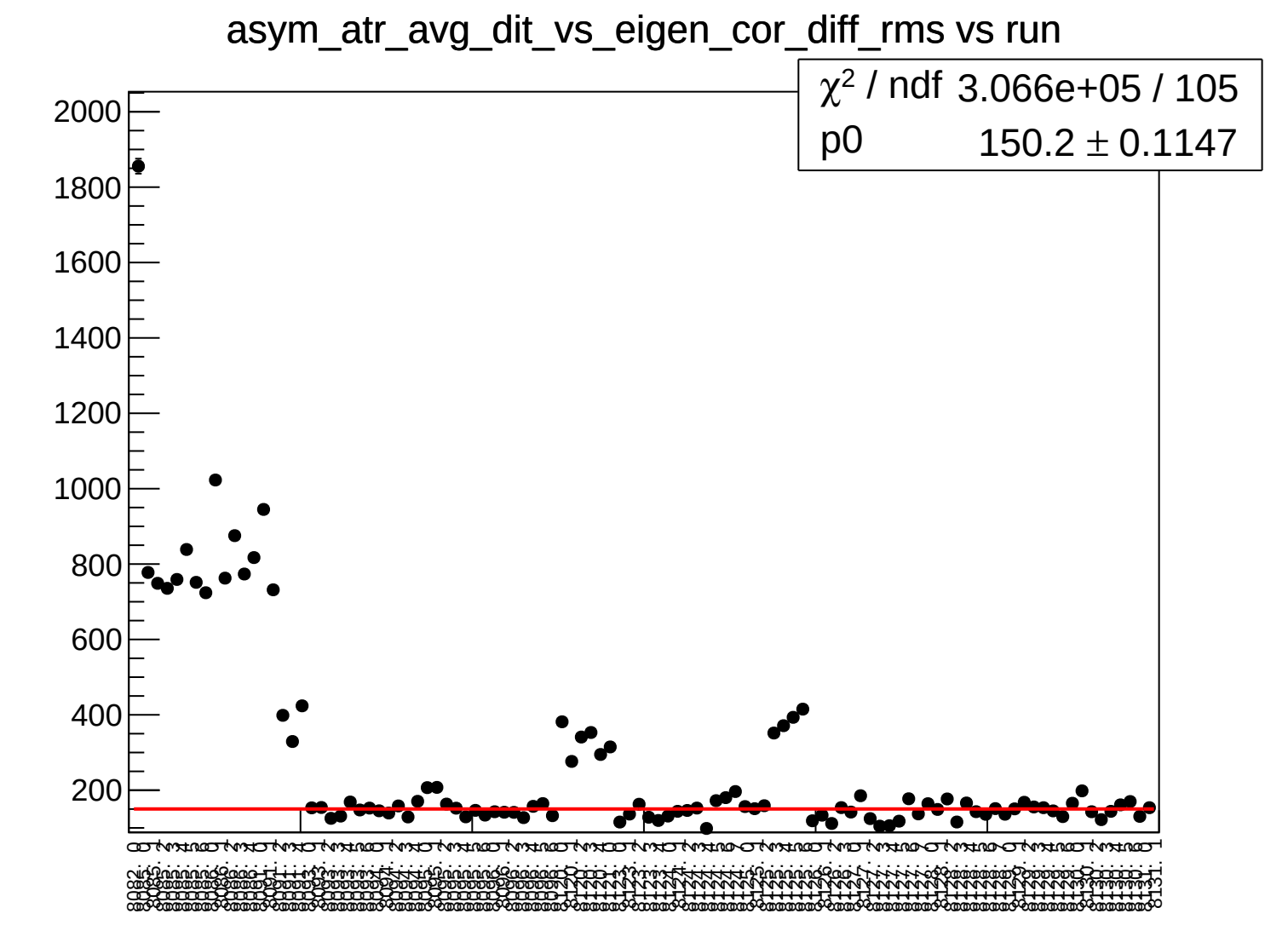

pull1D
Entries 106
Mean −0.02027
Std Dev 0.8201

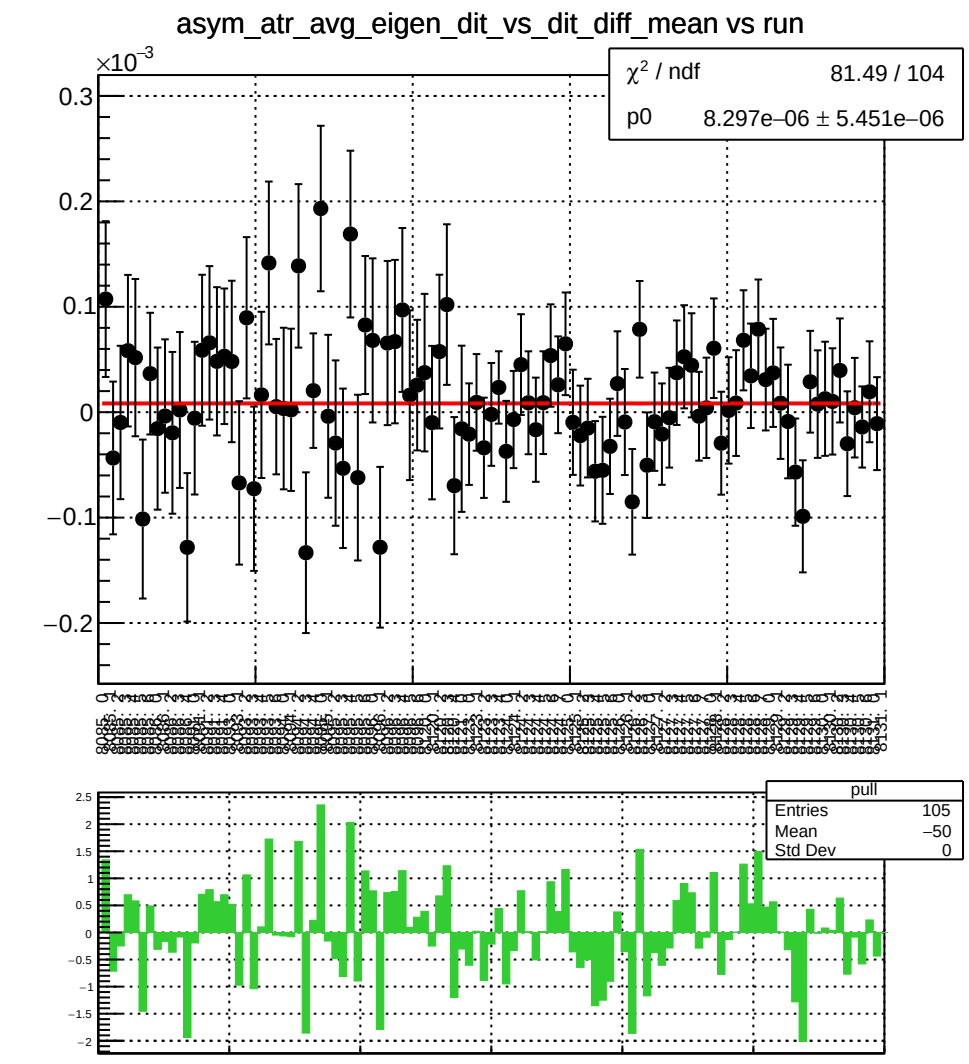

asym_atr_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.218e+06 / 105
p0 3.929e−10 ± 4.378e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

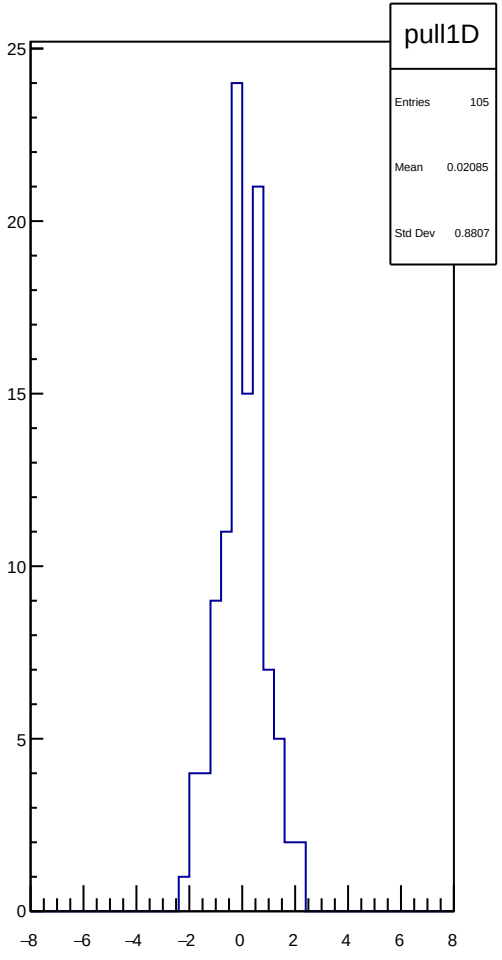

asym_atr_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 92.52 / 105
p0 −0.05866 ± 0.1622
pull
Entries 106
Mean 72.48
Std Dev 0
pull1D
Entries 106
Mean 0.05553
Std Dev 0.9326

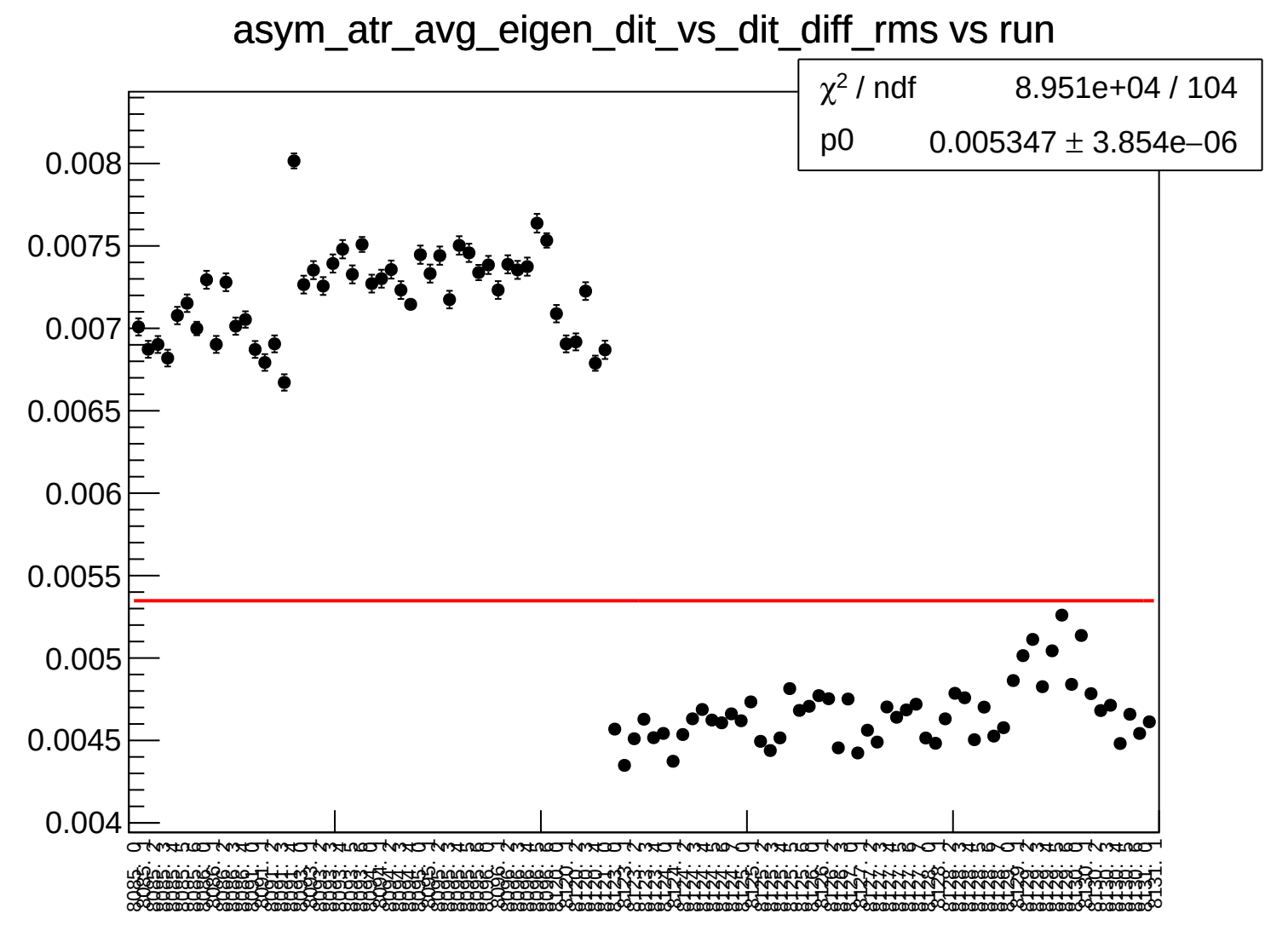

asym_atr_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.066e+05 / 105
p0 150.2 ± 0.1147
2000
1800
1600
1400
1200
1000
800
600
400
200

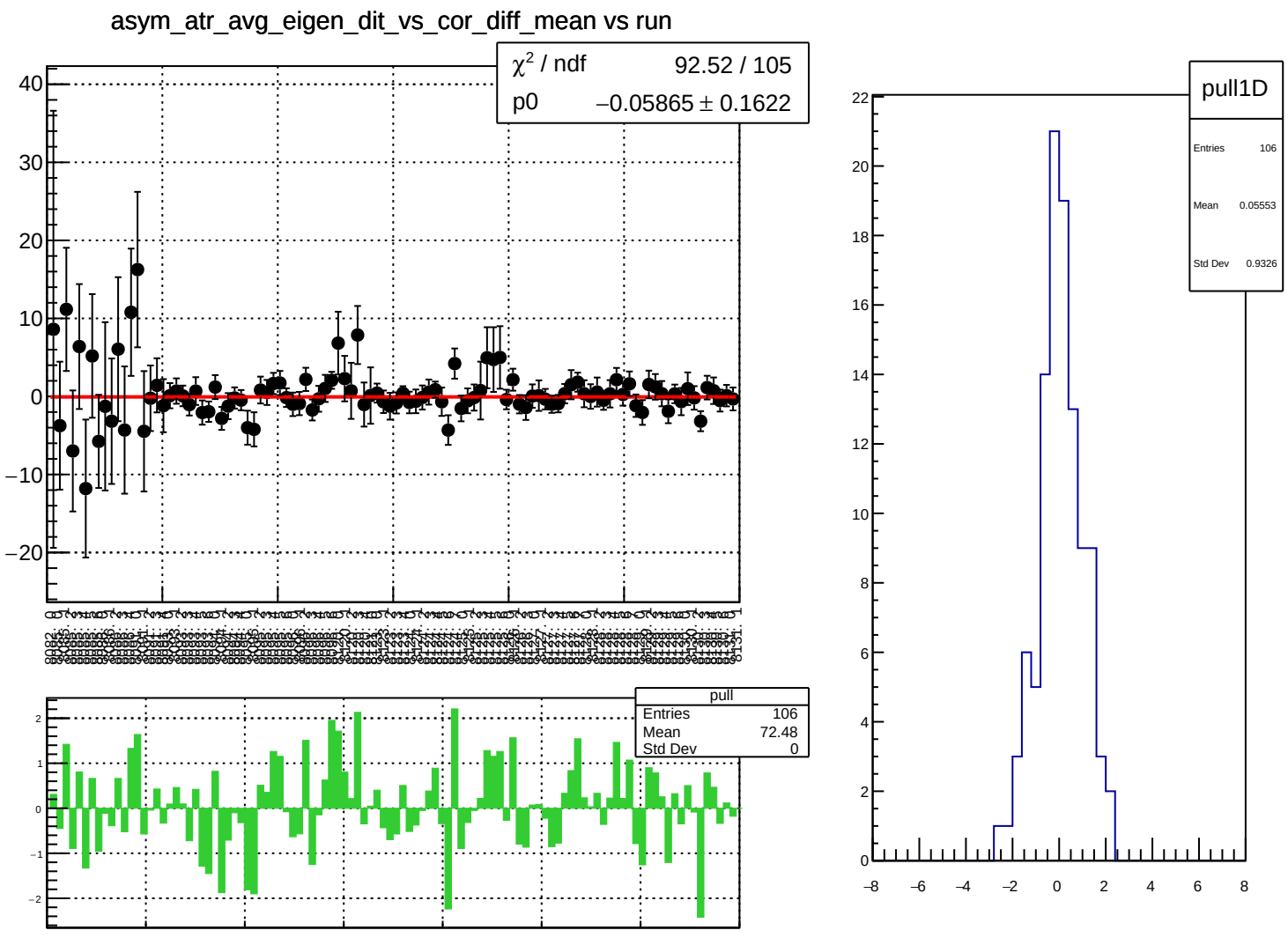

asym_atr_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.52 / 105
p0 −0.05866 ± 0.1622
pull
Entries 106
Mean 72.48
Std Dev 0
pull1D
Entries 106
Mean 0.05553
Std Dev 0.9326

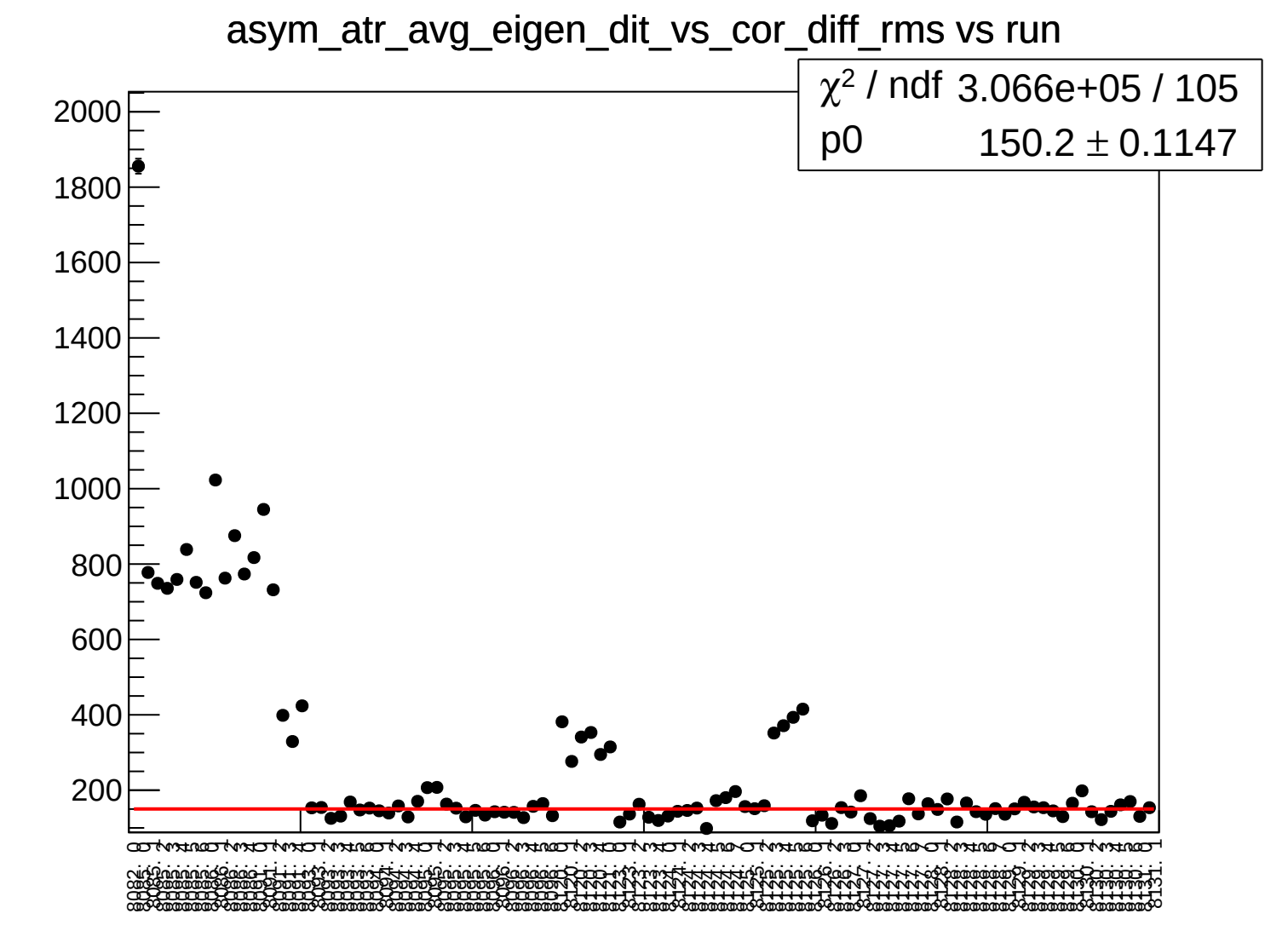

asym_atr_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.066e+05 / 105
p0 150.2 ± 0.1147
2000
1800
1600
1400
1200
1000
800
600
400
200

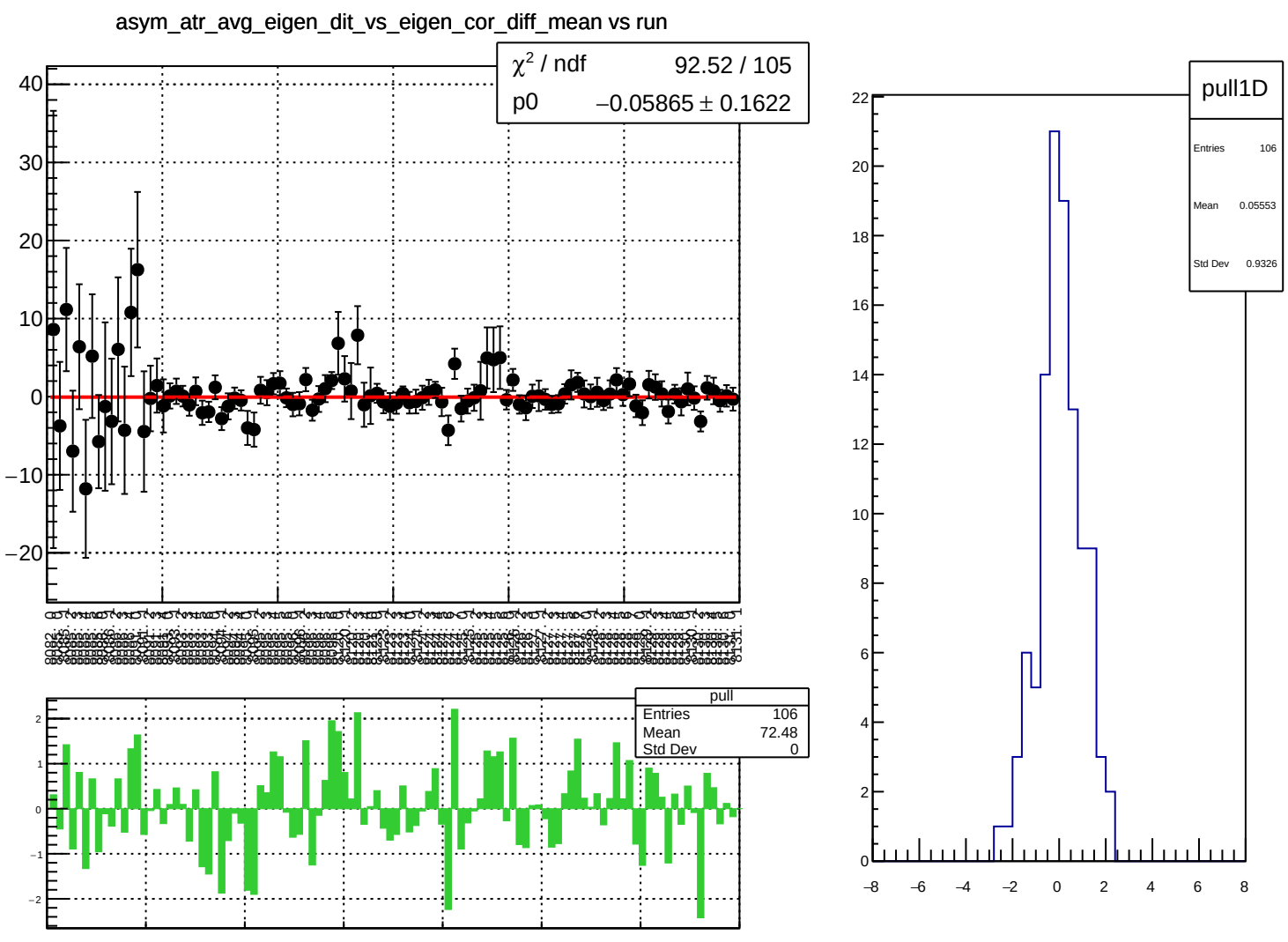

asym_atr_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 81.49 / 104
p0 8.297e−06 ± 5.451e−06
pull
Entries 105
Mean −50
Std Dev 0

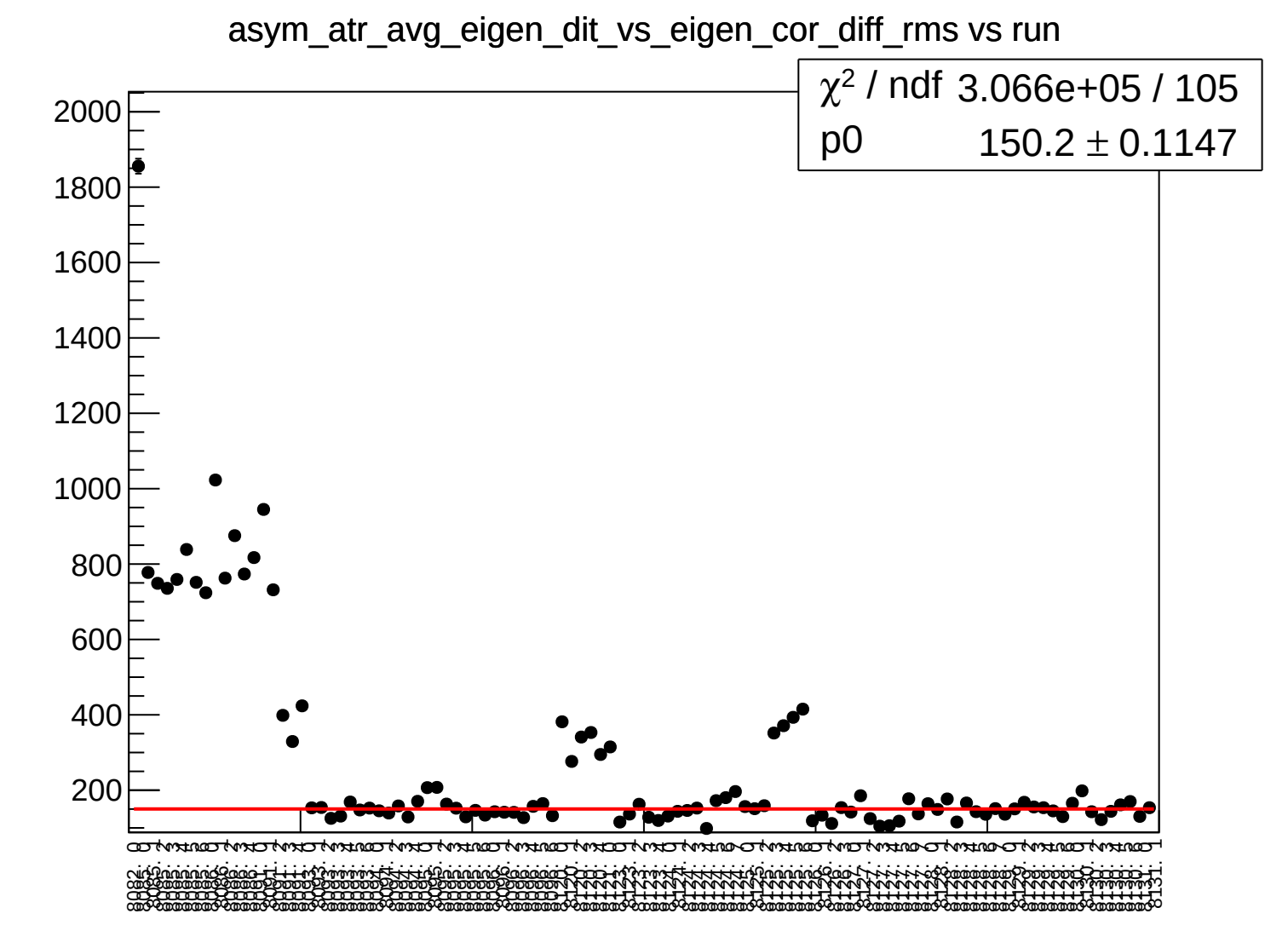

pull1D
Entries 105
Mean 0.02085
Std Dev 0.8807

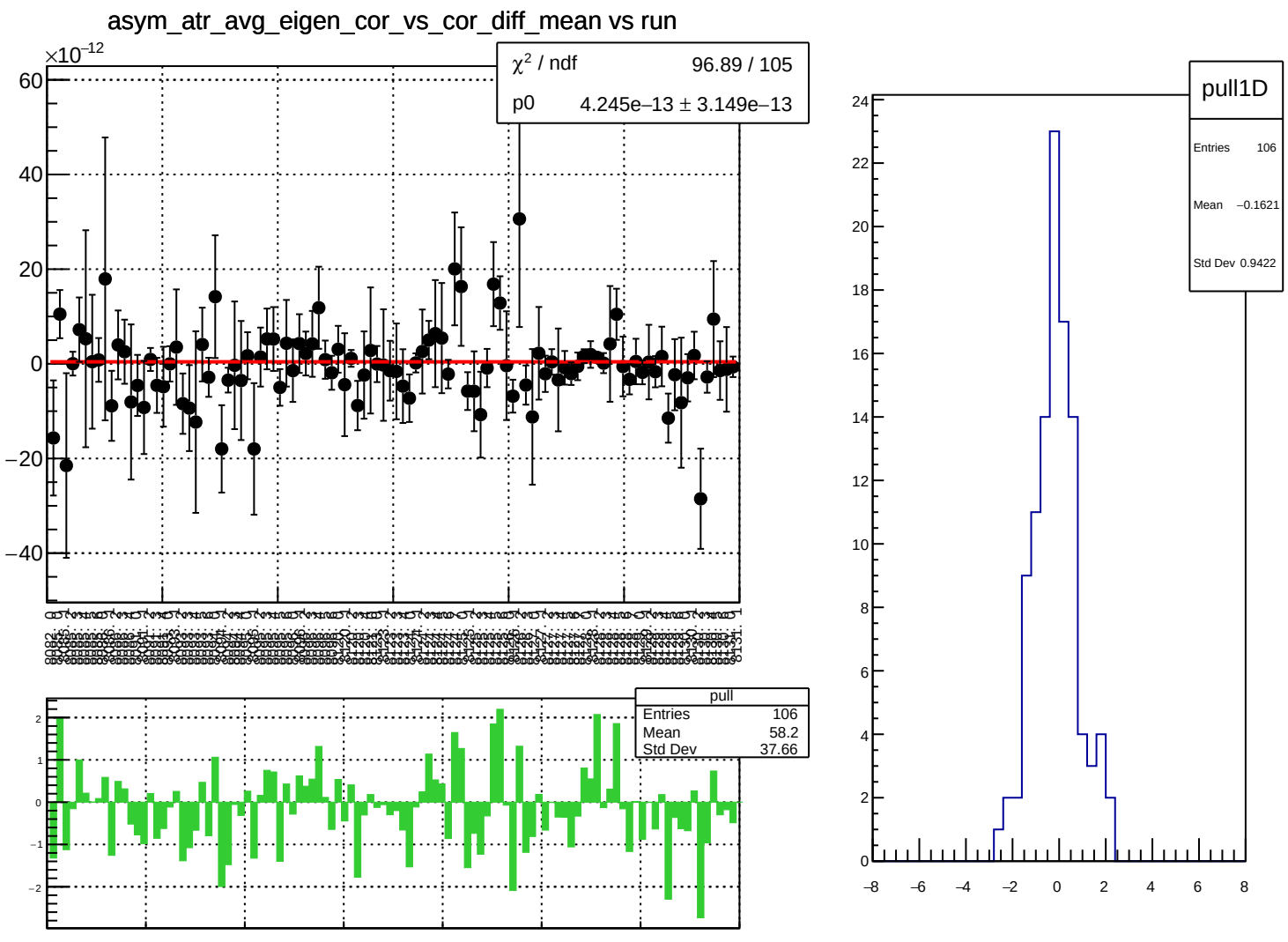

asym_atr_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.951e+04 / 104
p0 0.005347 ± 3.854e−06
0.008
0.0075
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004

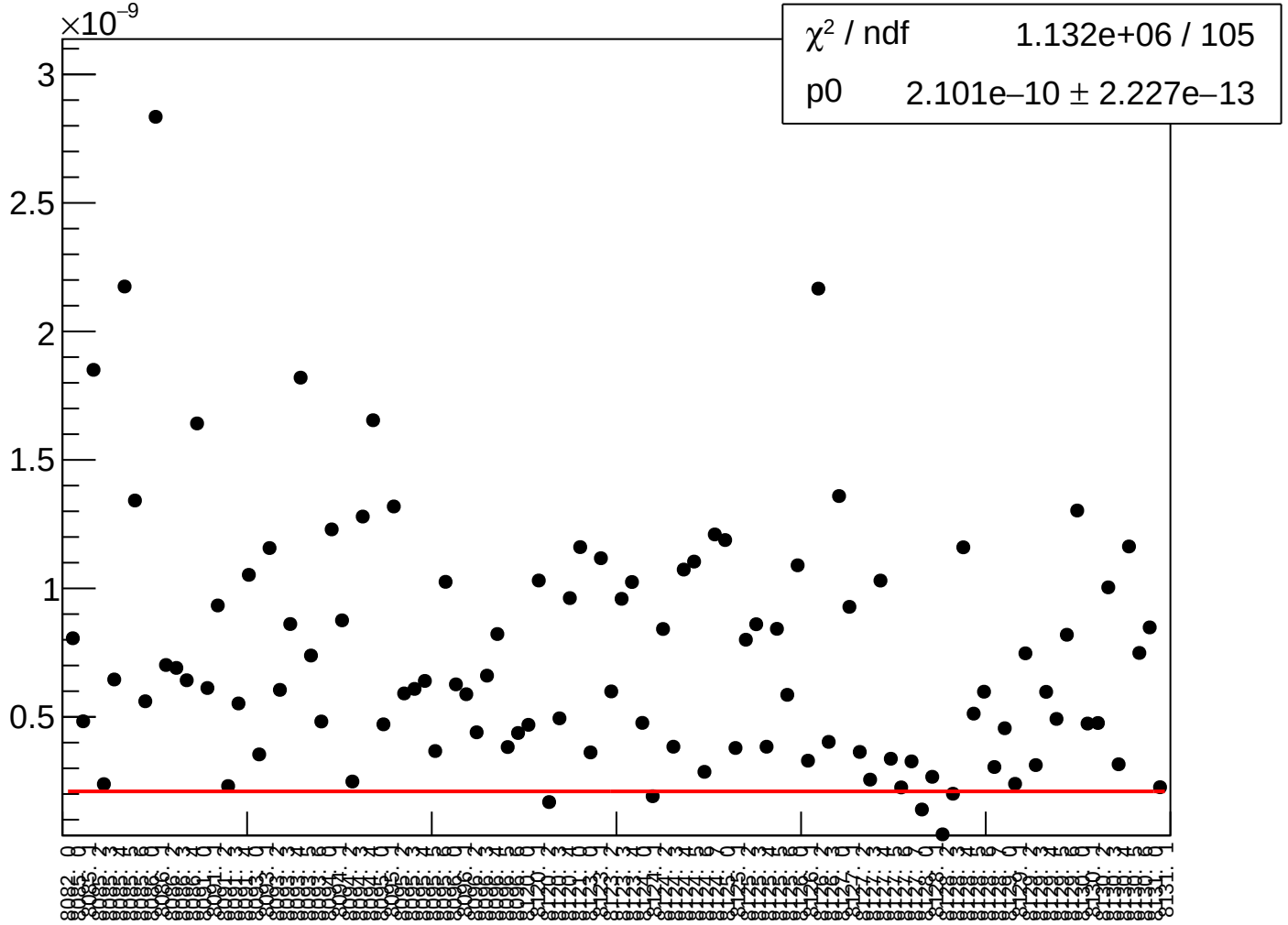

asym_atr_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.52 / 105
p0 −0.05865 ± 0.1622
pull
Entries 106
Mean 72.48
Std Dev 0
pull1D
Entries 106
Mean 0.05553
Std Dev 0.9326

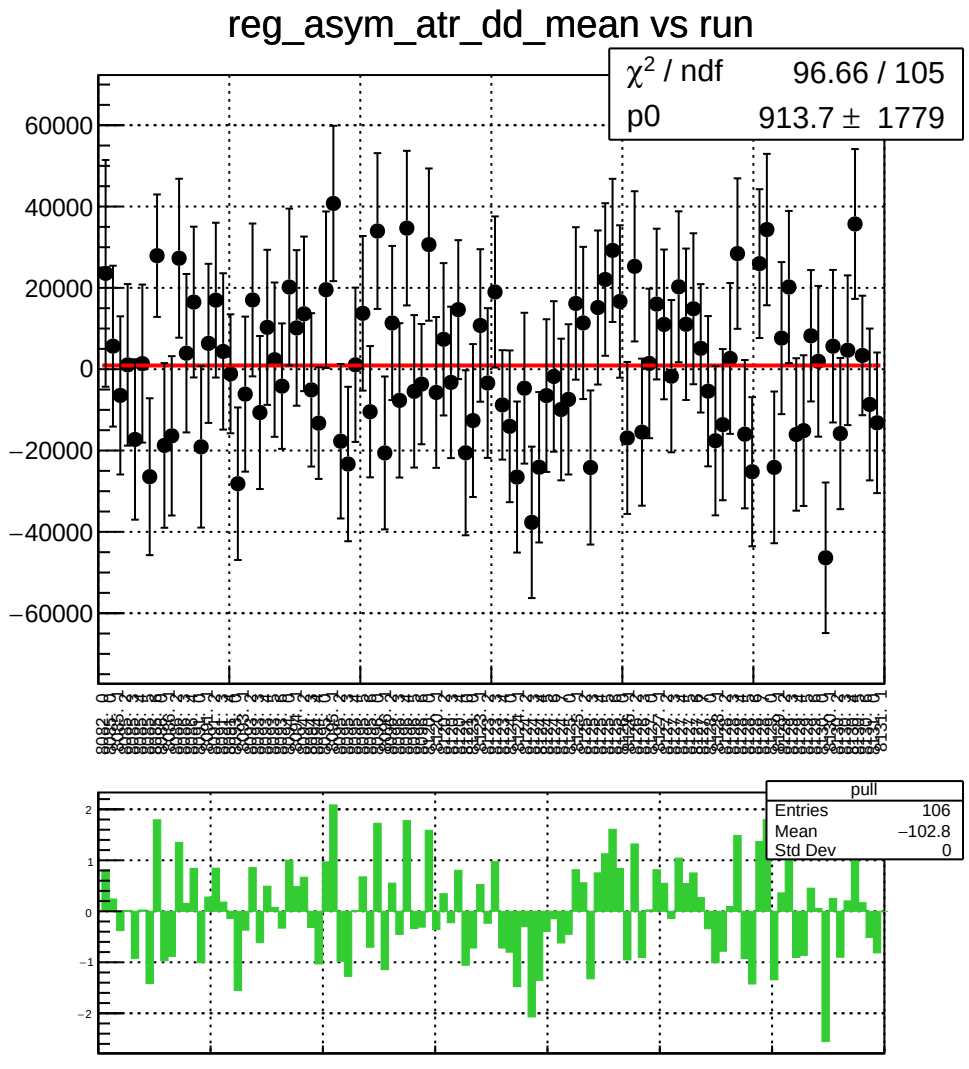

asym_atr_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.066e+05 / 105
p0 150.2 ± 0.1147
2000
1800
1600
1400
1200
1000
800
600
400
200

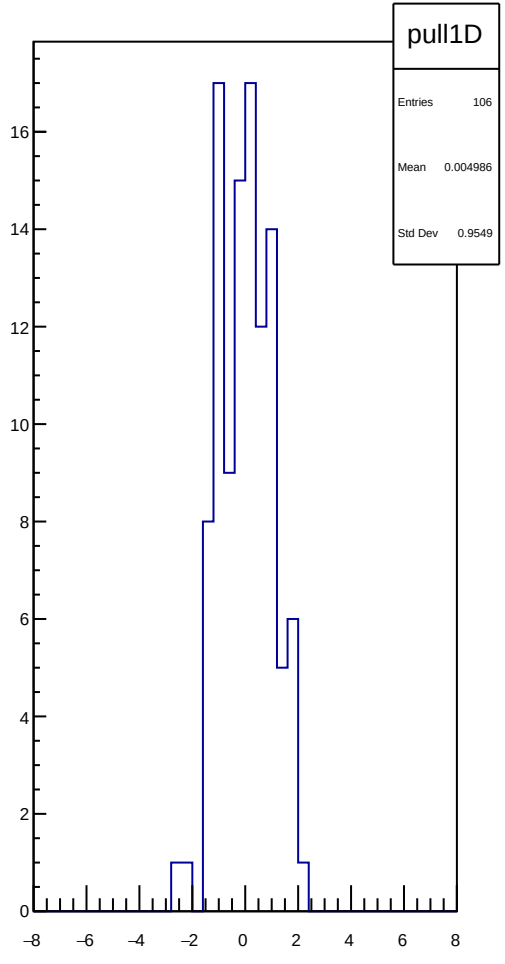

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.52 / 105
p0 −0.05865 ± 0.1622
pull
Entries 106
Mean 72.48
Std Dev 0
pull1D
Entries 106
Mean 0.05553
Std Dev 0.9326

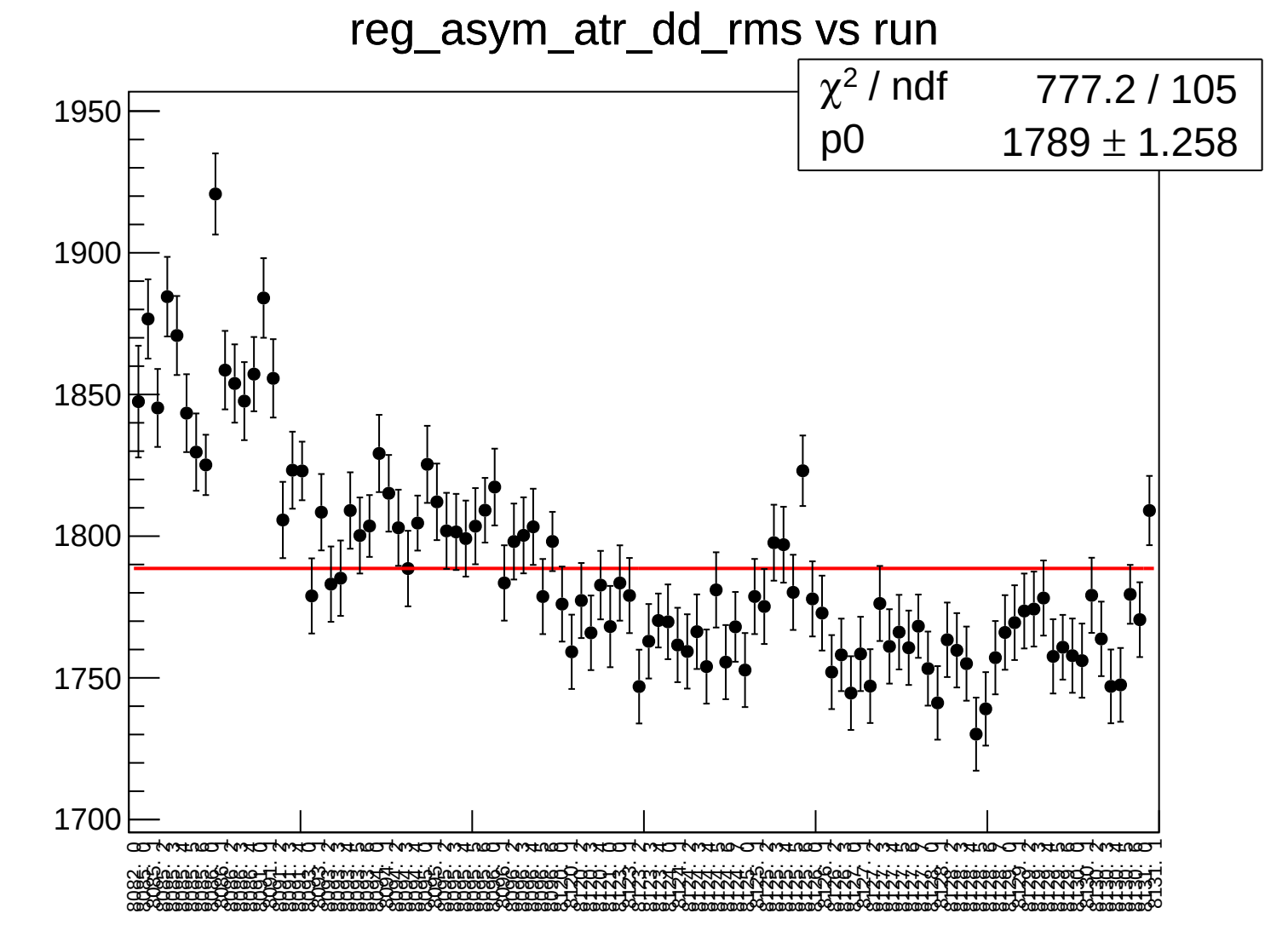

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.066e+05 / 105
p0 150.2 ± 0.1147
2000
1800
1600
1400
1200
1000
800
600
400
200

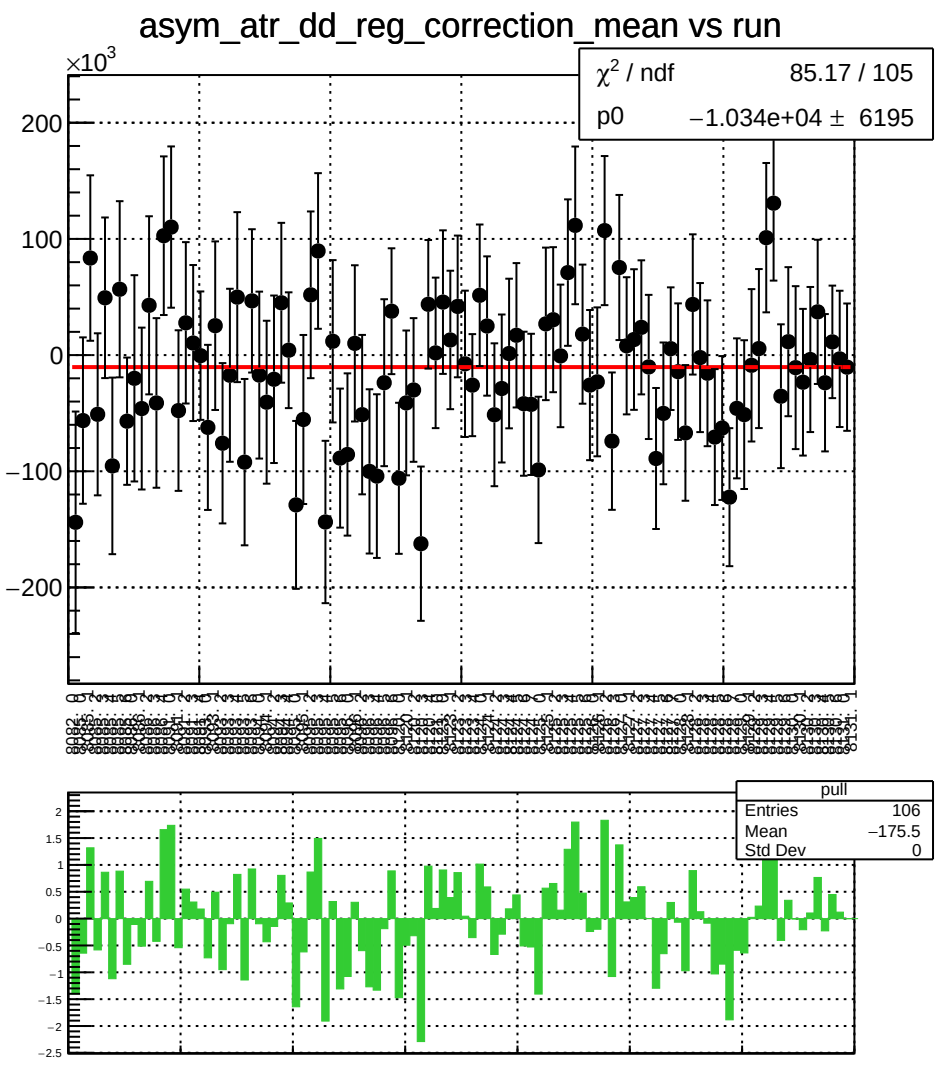

asym_atr_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.89 / 105
p0 4.245e−13 ± 3.149e−13
pull
Entries 106
Mean 58.2
Std Dev 37.66
pull1D
Entries 106
Mean −0.1621
Std Dev 0.9422

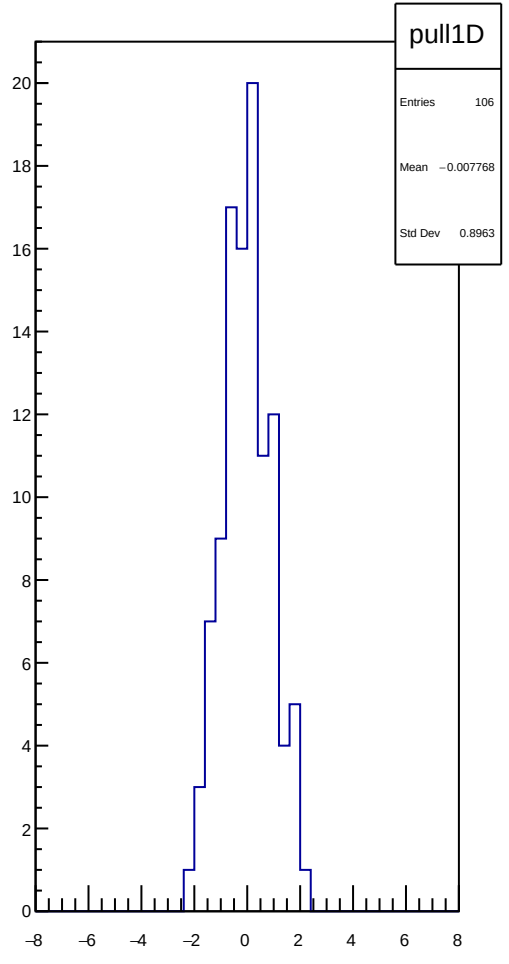

asym_atr_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
3
2.5
2
1.5
1
0.5
χ² / ndf 1.132e+06 / 105
p0 2.101e−10 ± 2.227e−13

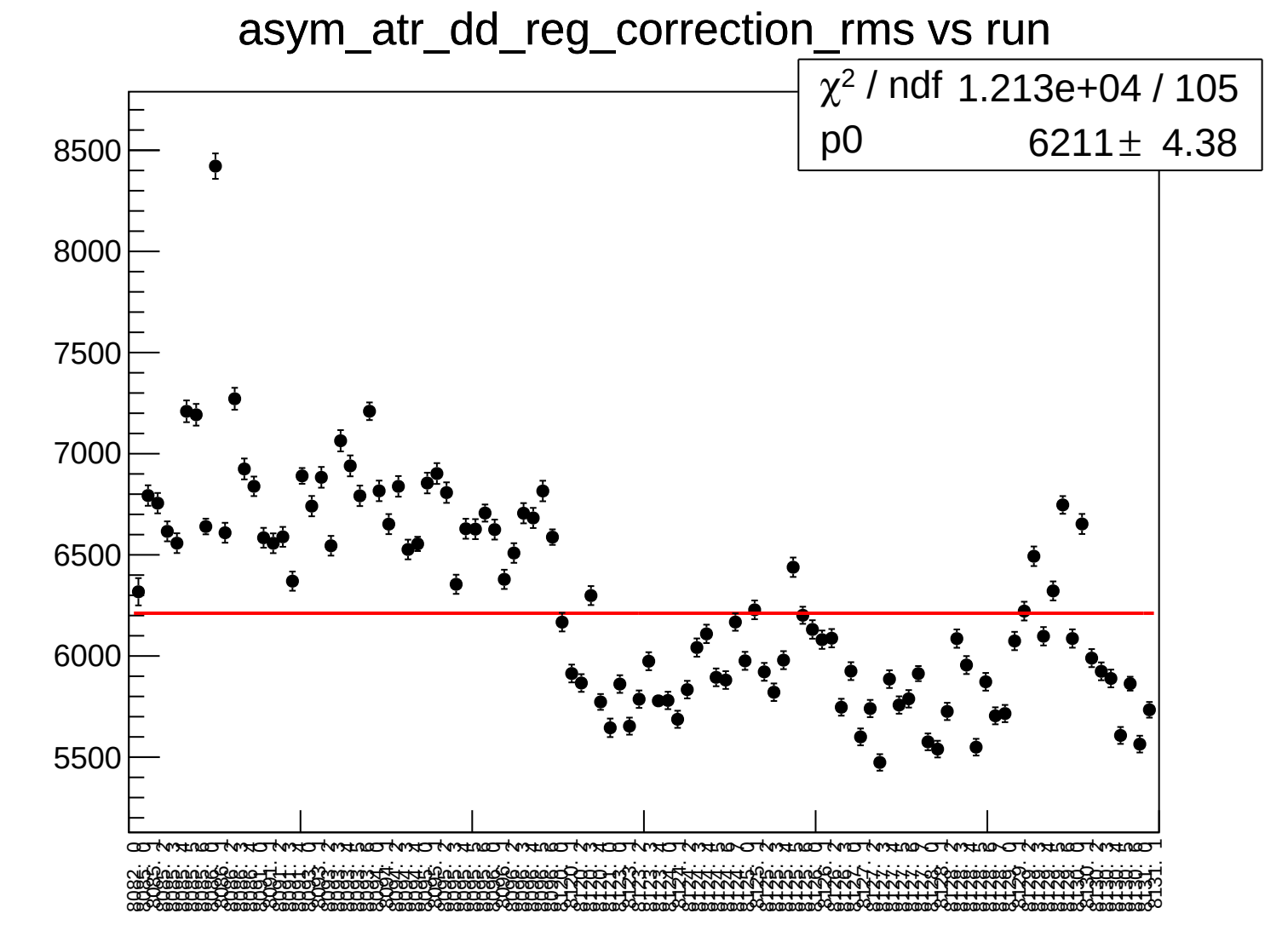

reg_asym_atr_dd_mean vs run
χ² / ndf 96.66 / 105
p0 913.7 ± 1779
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean −102.8
Std Dev 0
2
1
0
−1
−2

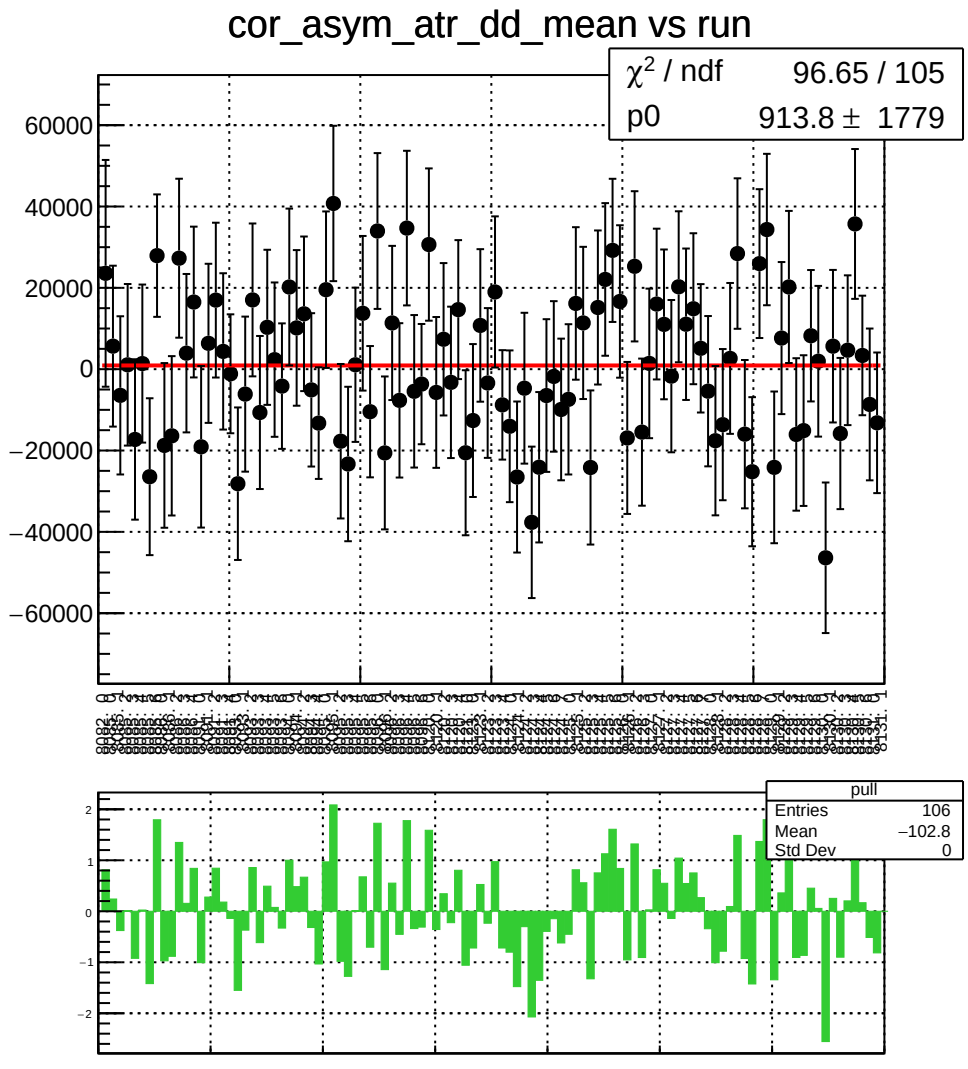

pull1D
Entries 106
Mean 0.004986
Std Dev 0.9549
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

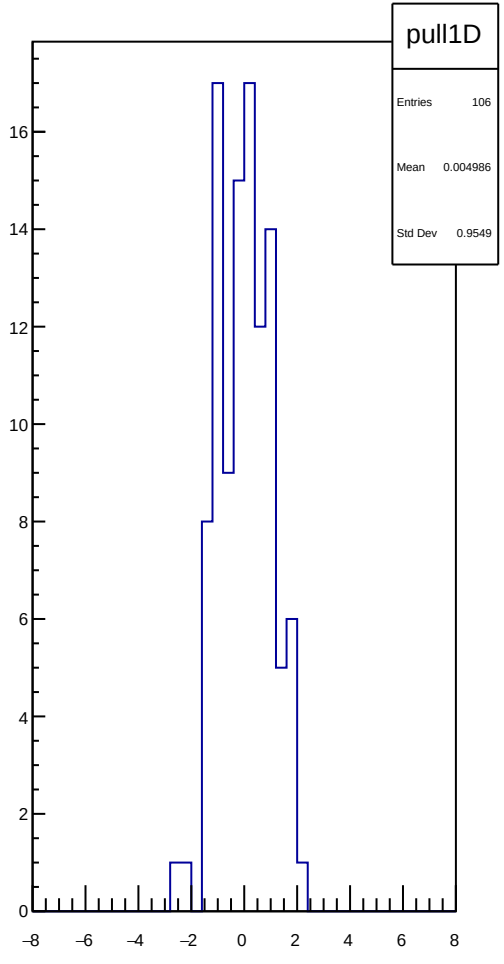

reg_asym_atr_dd_rms vs run
χ² / ndf 777.2 / 105
p0 1789 ± 1.258
1950
1900
1850
1800
1750
1700

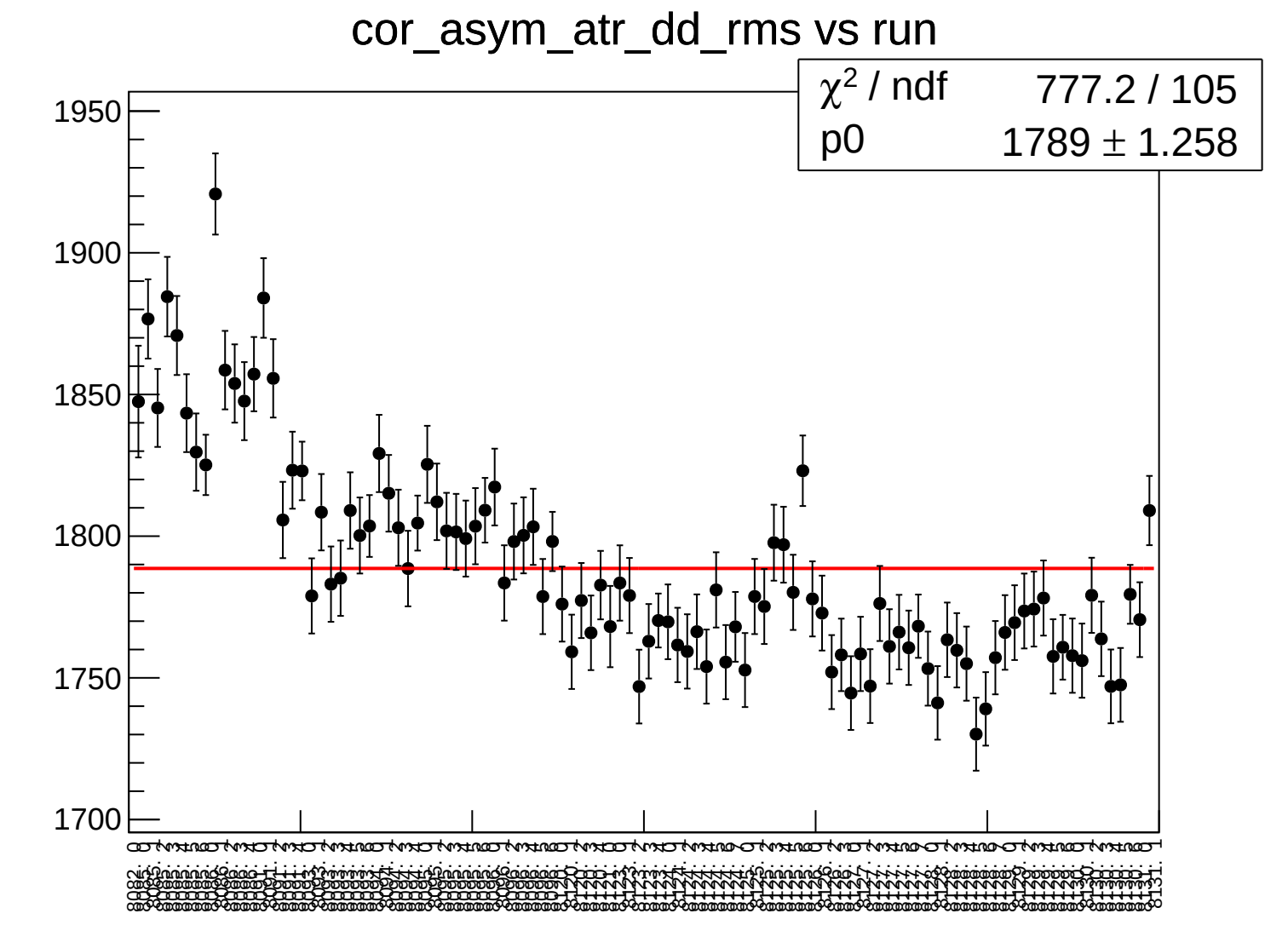

asym_atr_dd_reg_correction_mean vs run
×10^3
χ² / ndf 85.17 / 105
p0 −1.034e+04 ± 6195
200
100
0
−100
−200
pull
Entries 106
Mean −175.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

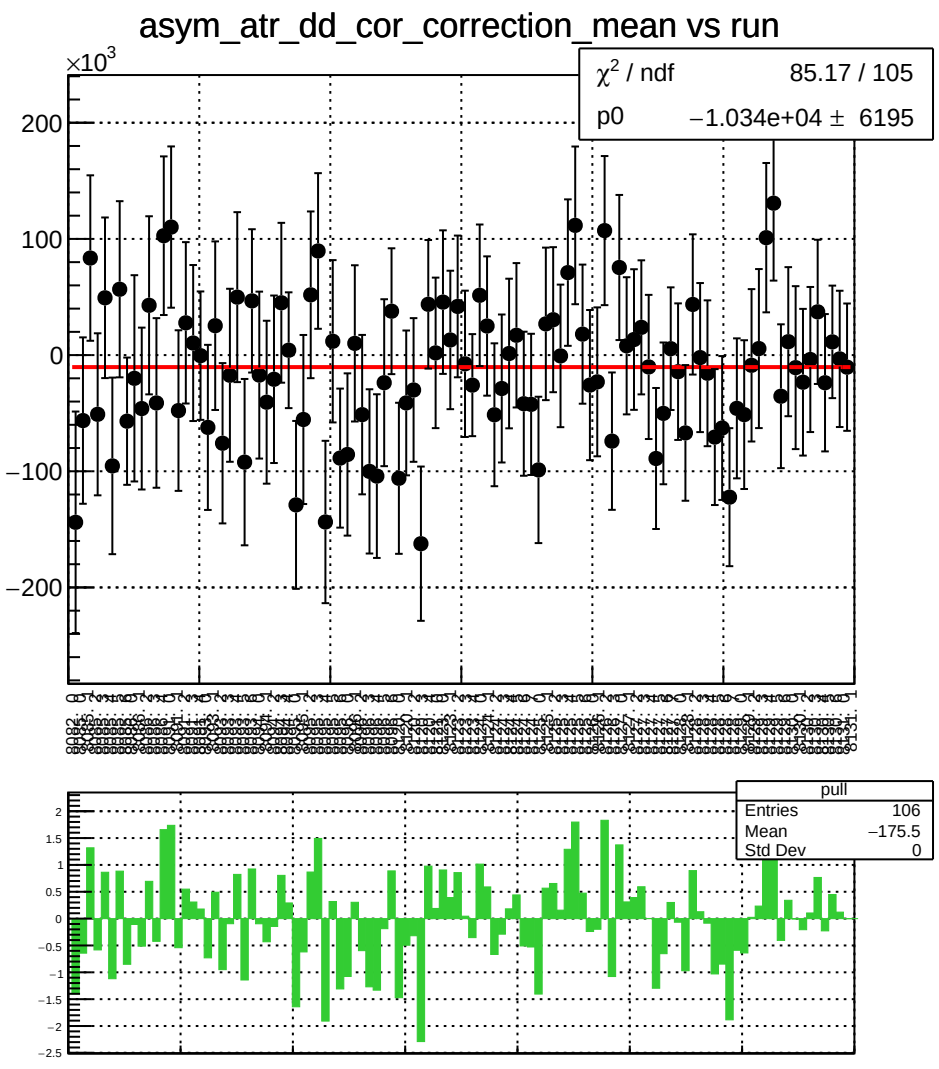

pull1D
Entries 106
Mean −0.007768
Std Dev 0.8963
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

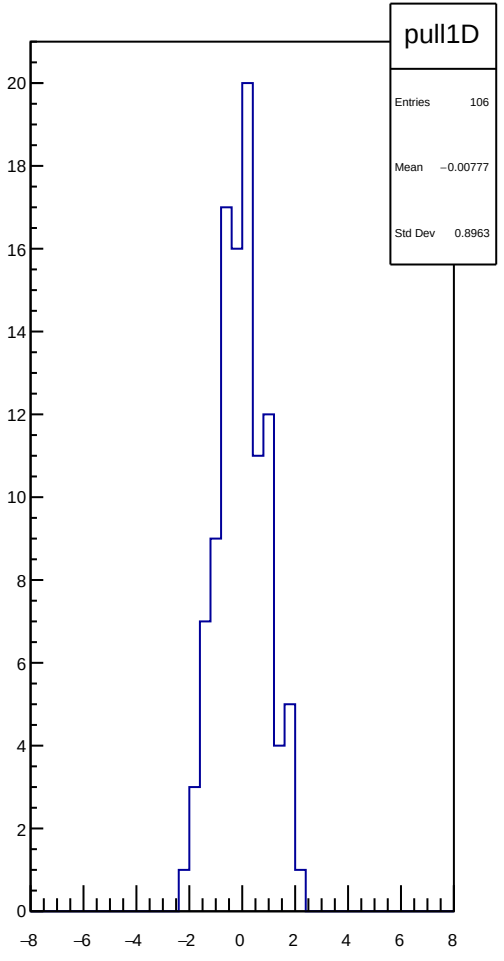

asym_atr_dd_reg_correction_rms vs run
χ² / ndf 1.213e+04 / 105
p0 6211 ± 4.38
8500
8000
7500
7000
6500
6000
5500

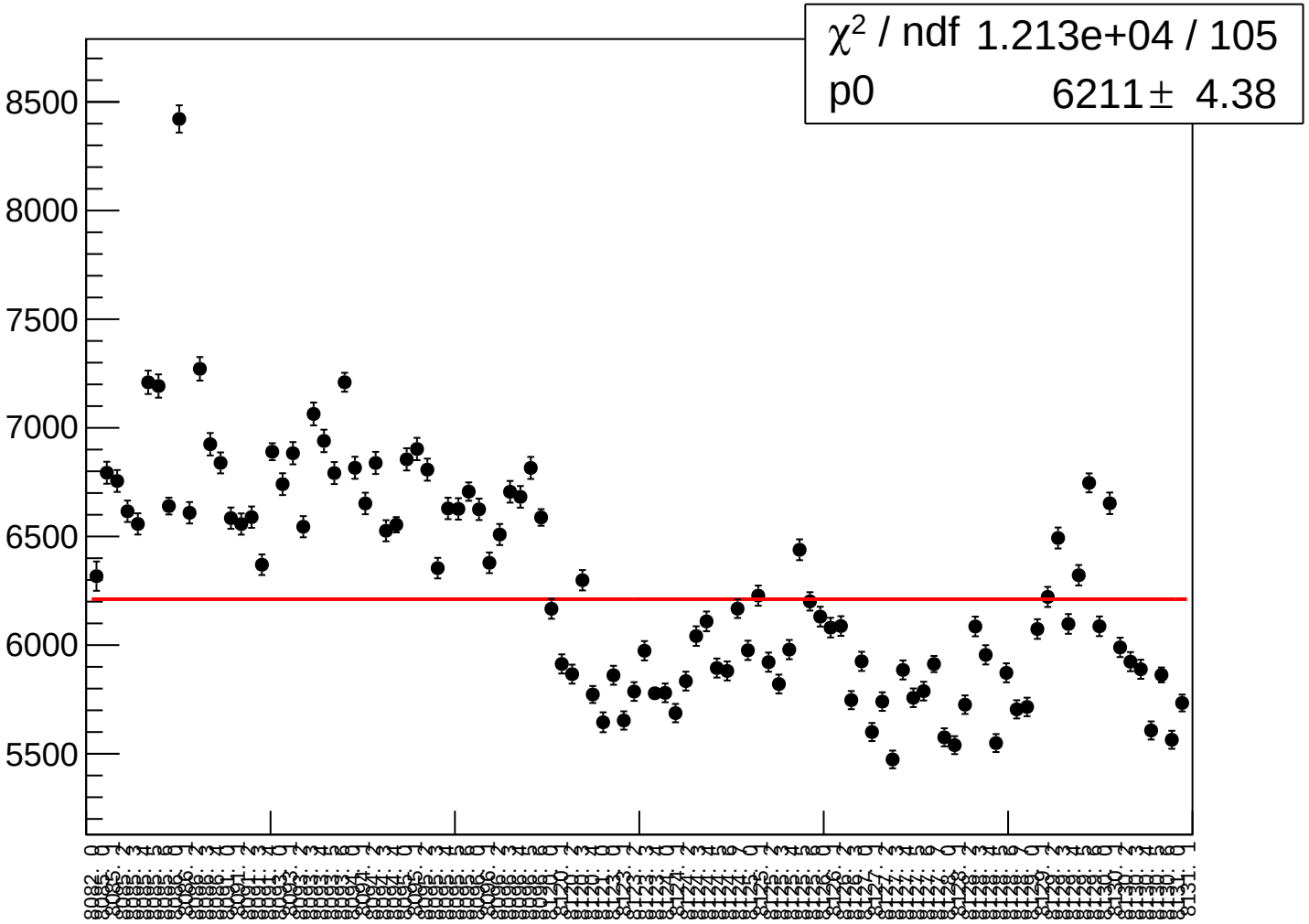

cor_asym_atr_dd_mean vs run
χ² / ndf 96.65 / 105
p0 913.8 ± 1779
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean −102.8
Std Dev 0
2
1
0
−1
−2

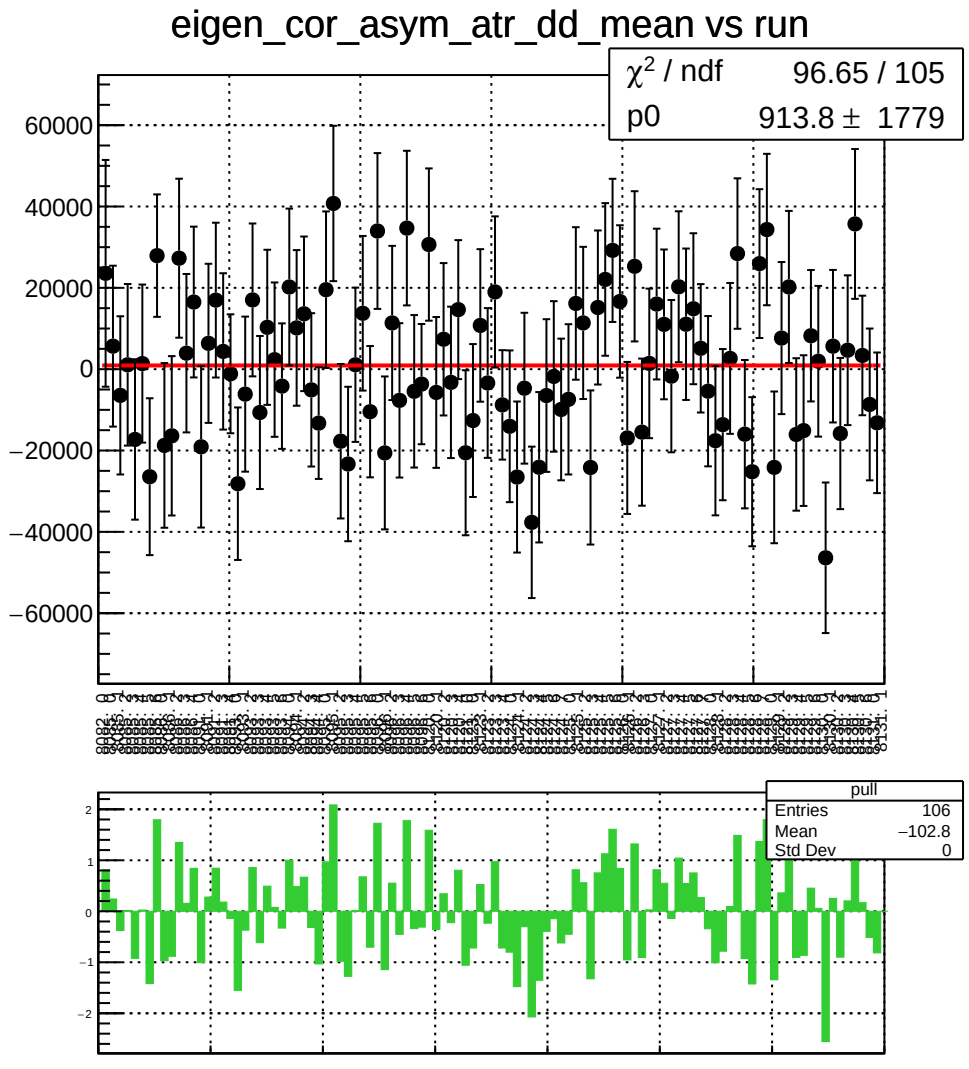

pull1D
Entries 106
Mean 0.004986
Std Dev 0.9549
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

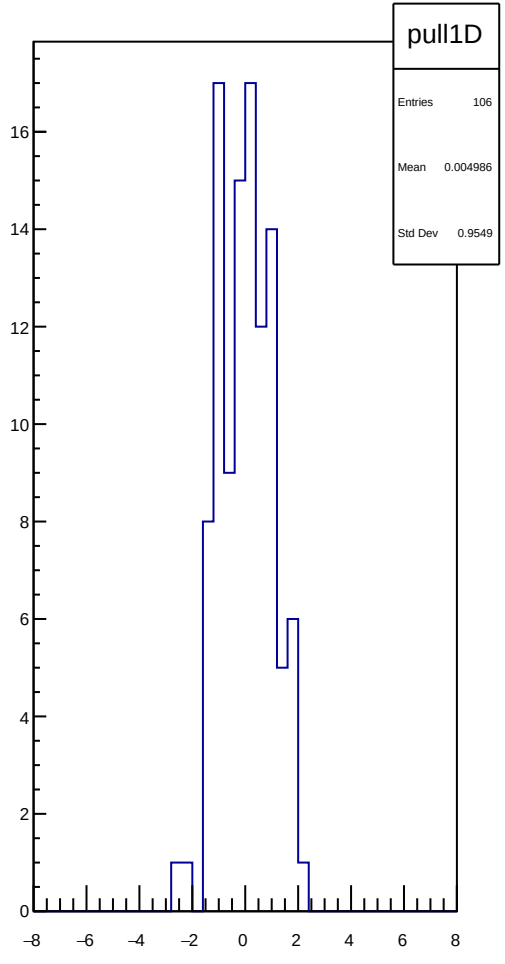

cor_asym_atr_dd_rms vs run
$\chi^2$ / ndf 777.2 / 105
p0 1789 ± 1.258
1950
1900
1850
1800
1750
1700

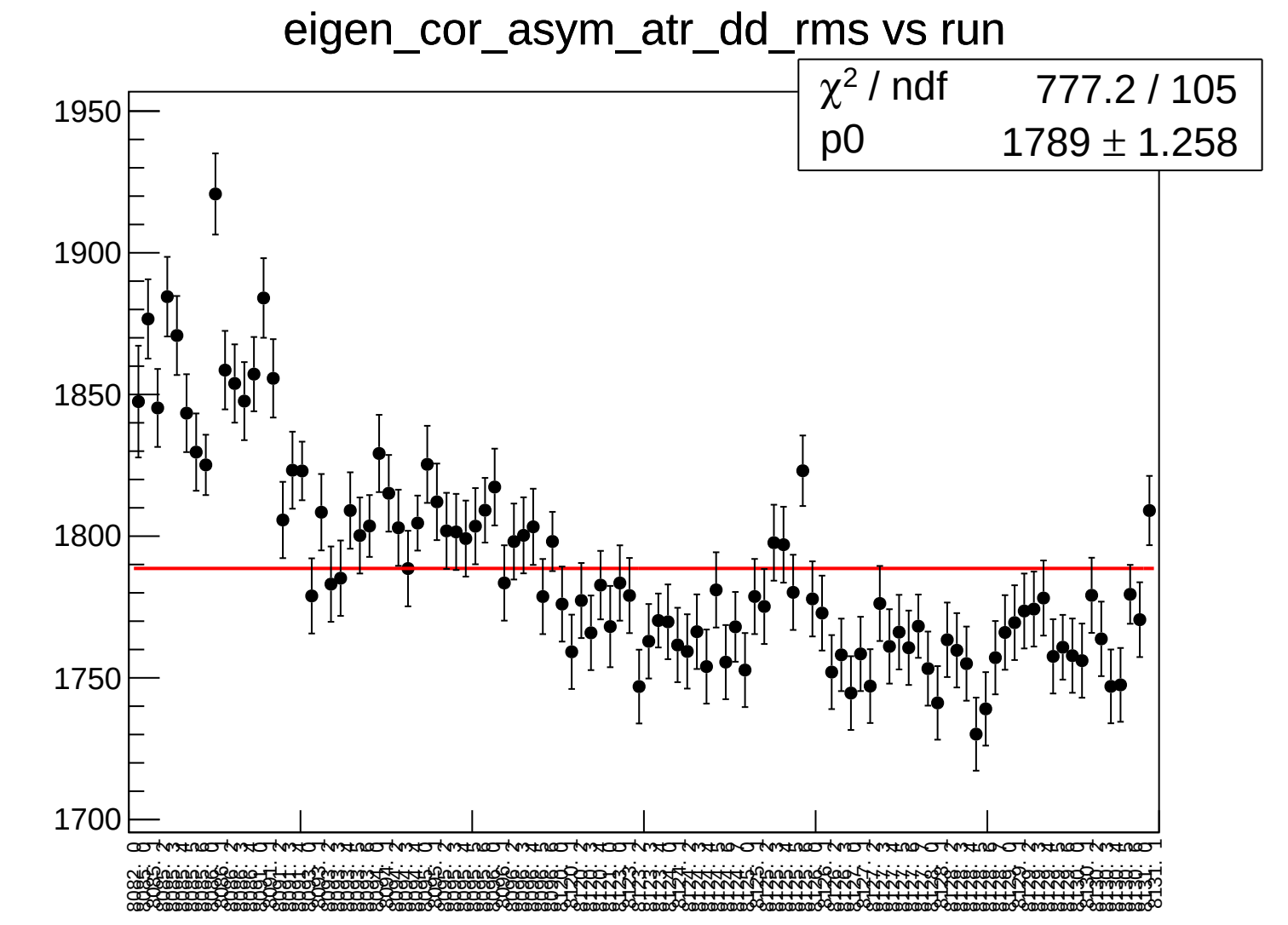

asym_atr_dd_cor_correction_mean vs run
×10^3
χ² / ndf 85.17 / 105
p0 −1.034e+04 ± 6195
pull
Entries 106
Mean −175.5
Std Dev 0

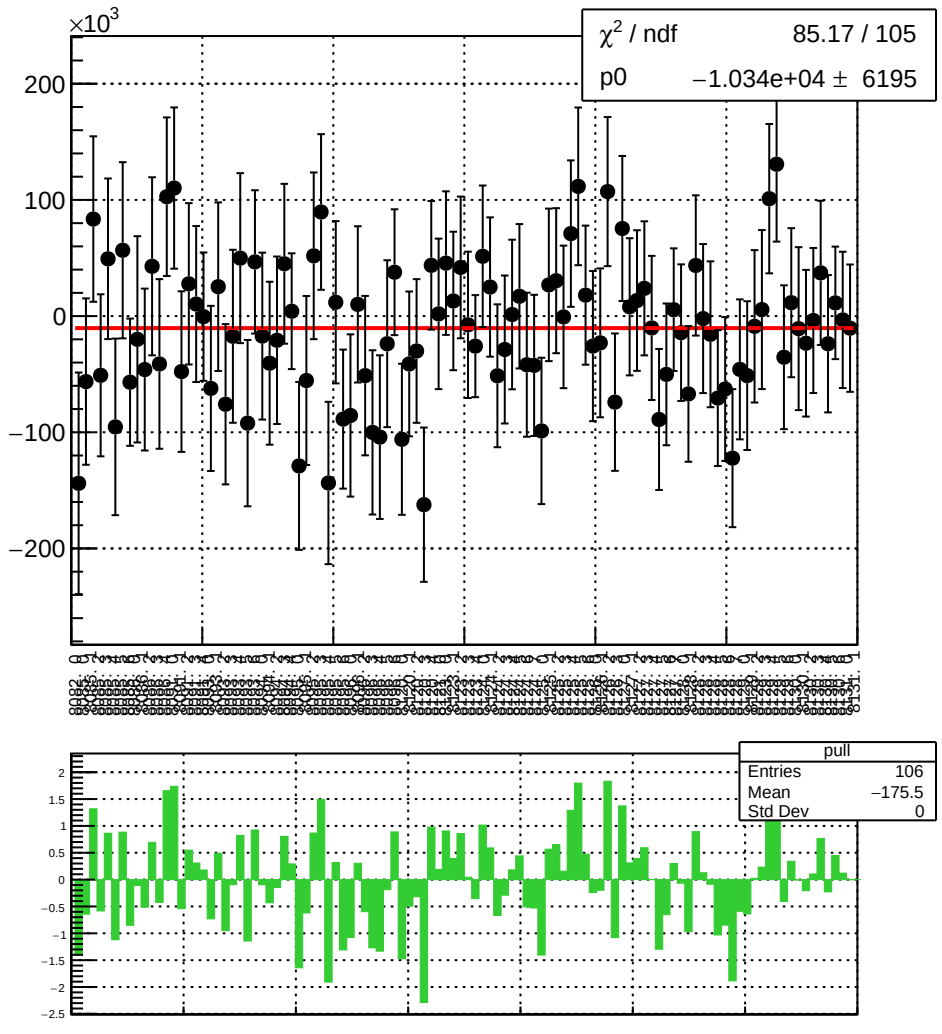

pull1D
Entries 106
Mean −0.00777
Std Dev 0.8963

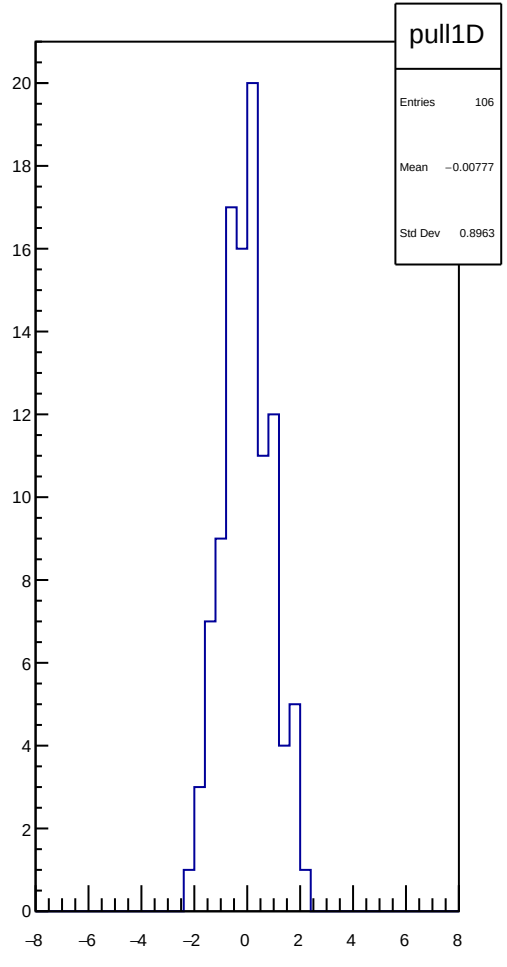

asym_atr_dd_cor_correction_rms vs run
χ² / ndf 1.213e+04 / 105
p0 6211 ± 4.38
8500
8000
7500
7000
6500
6000
5500

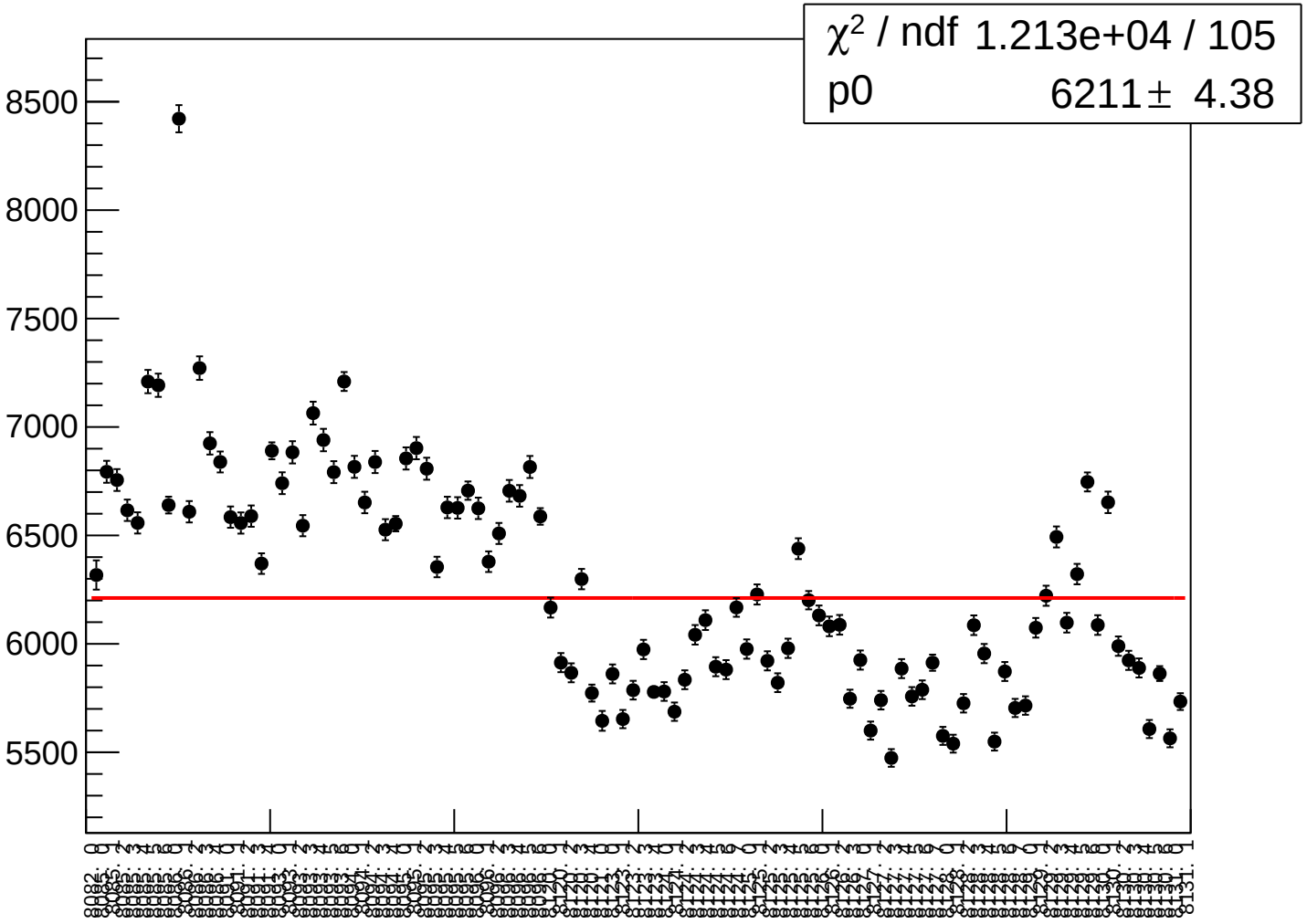

eigen_cor_asym_atr_dd_mean vs run
χ² / ndf 96.65 / 105
p0 913.8 ± 1779
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean −102.8
Std Dev 0
2
1
0
−1
−2

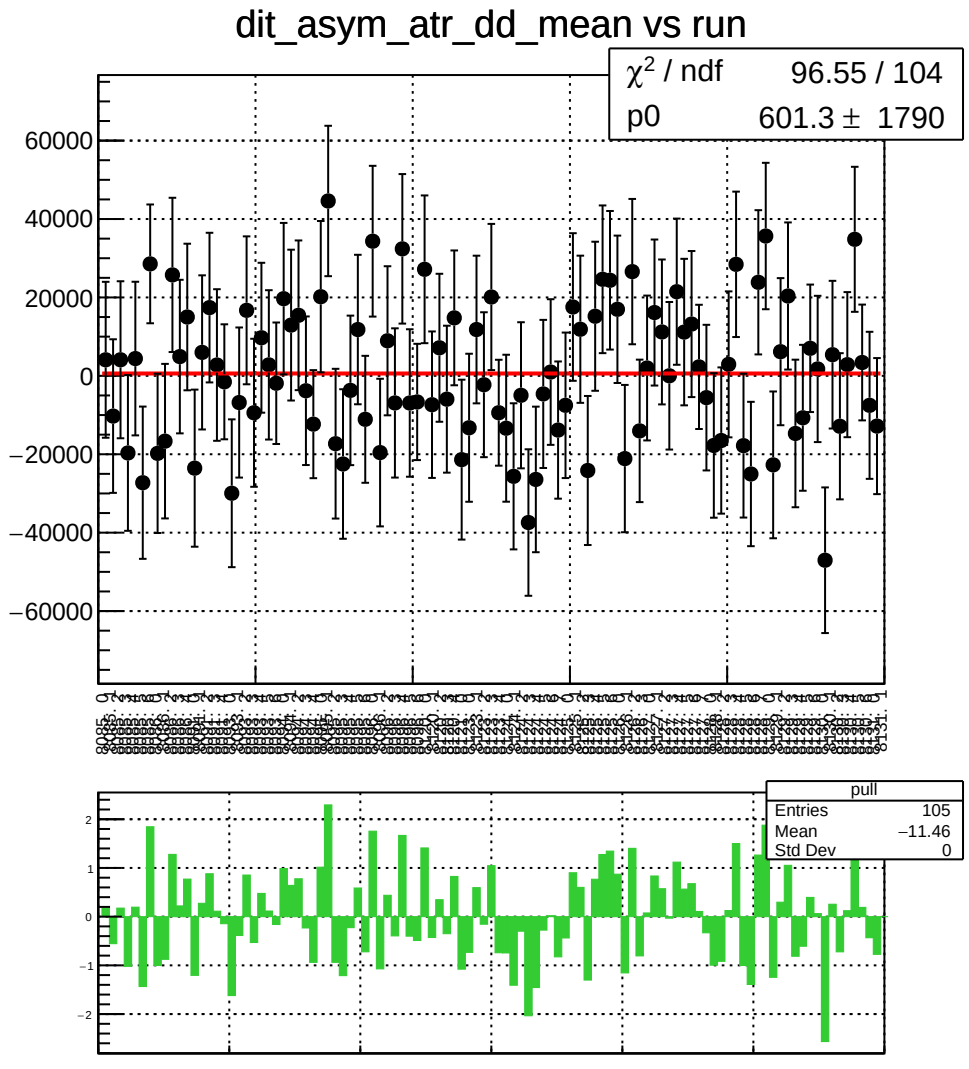

pull1D
Entries 106
Mean 0.004986
Std Dev 0.9549
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

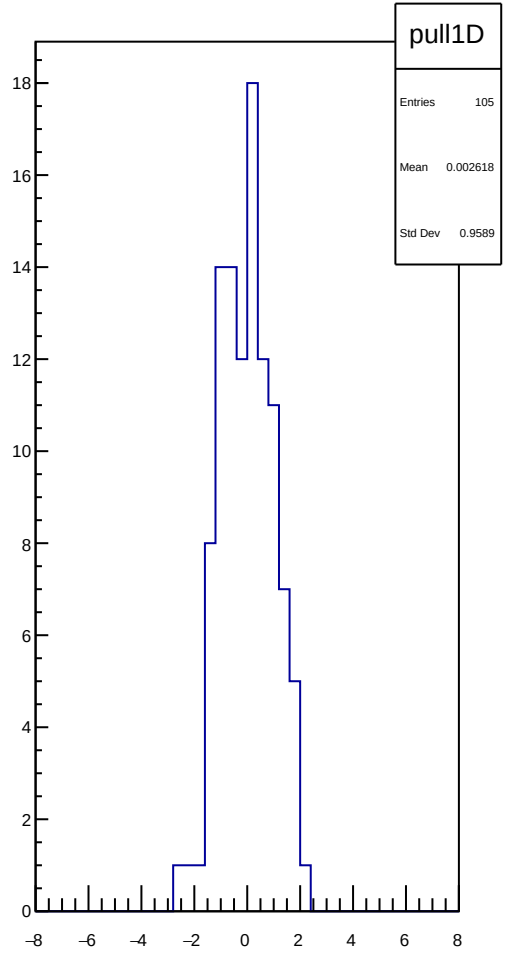

eigen_cor_asym_atr_dd_rms vs run
χ² / ndf 777.2 / 105
p0 1789 ± 1.258
1950
1900
1850
1800
1750
1700

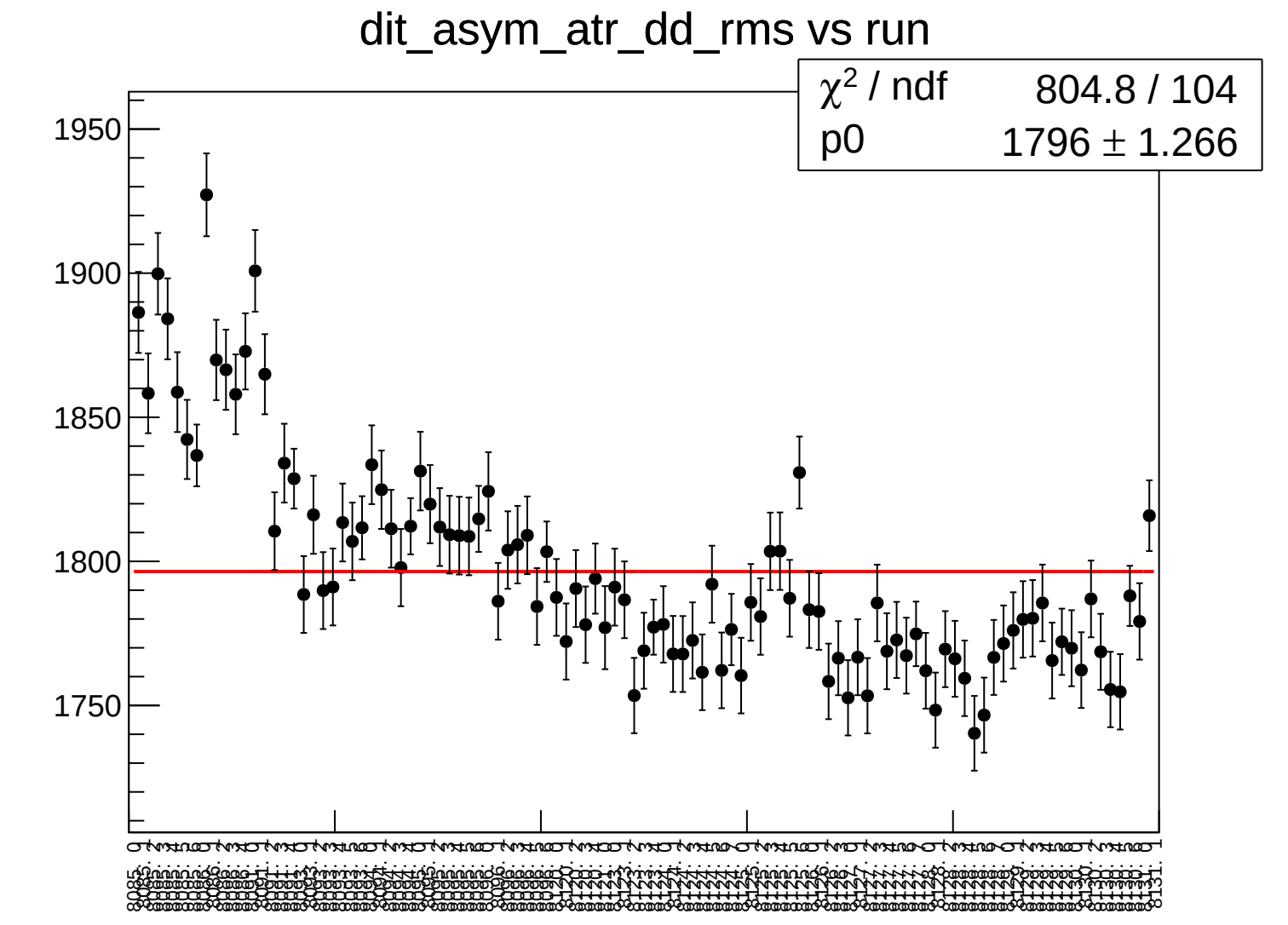

asym_atr_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 85.17 / 105
p0 −1.034e+04 ± 6195
200
100
0
−100
−200
pull
Entries 106
Mean −175.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

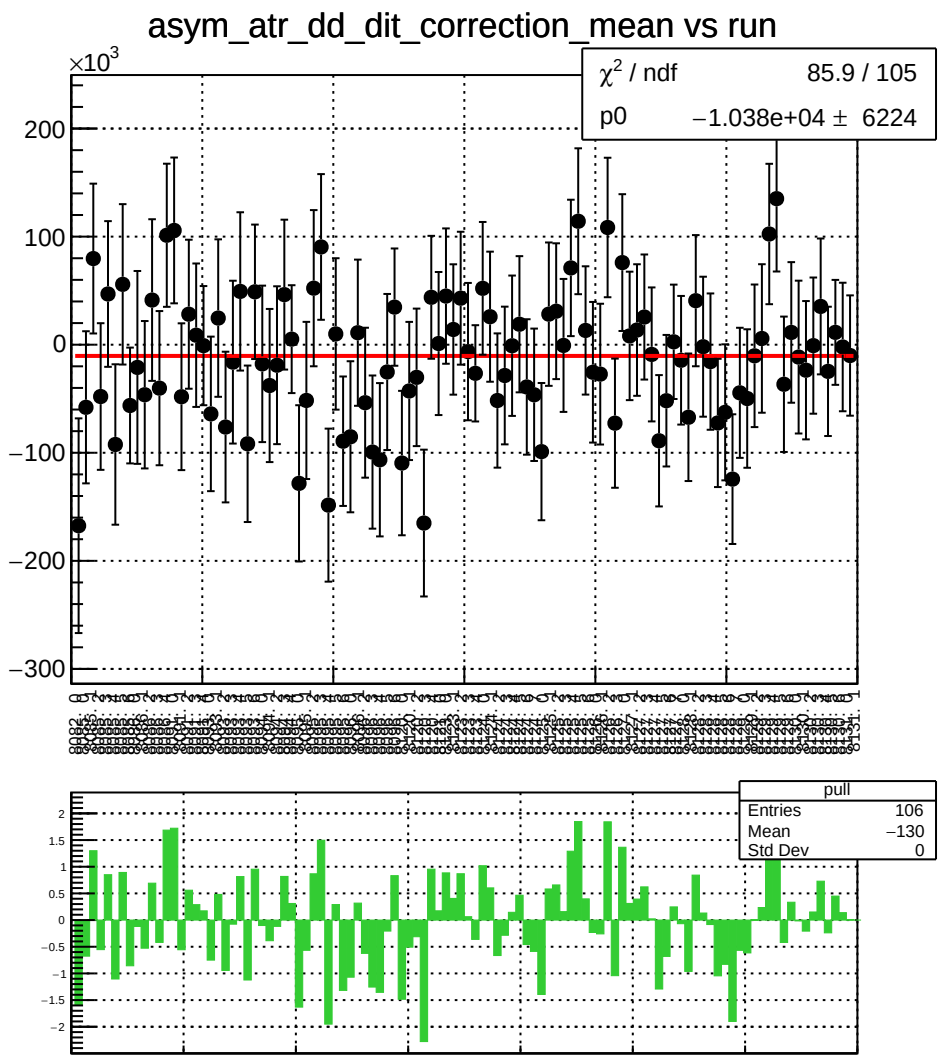

pull1D
Entries 106
Mean −0.00777
Std Dev 0.8963
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

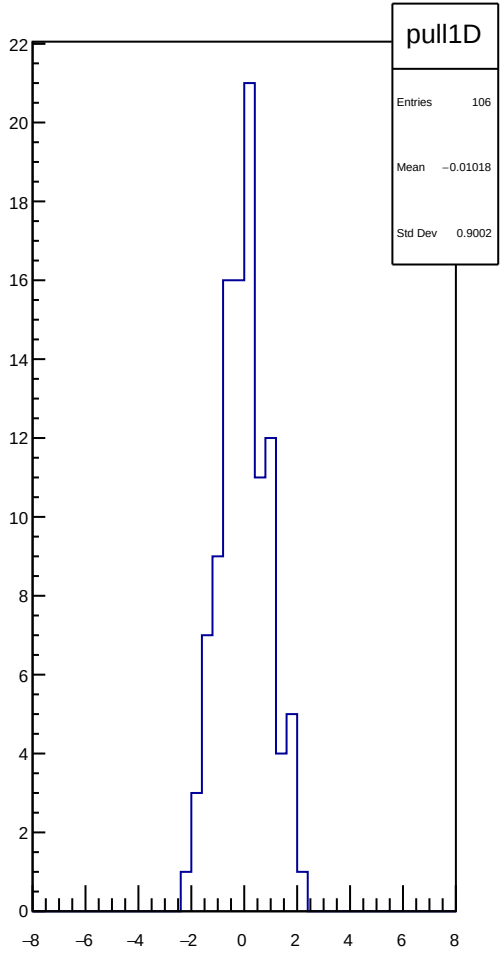

asym_atr_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.213e+04 / 105
p0 6211 ± 4.38
8500
8000
7500
7000
6500
6000
5500

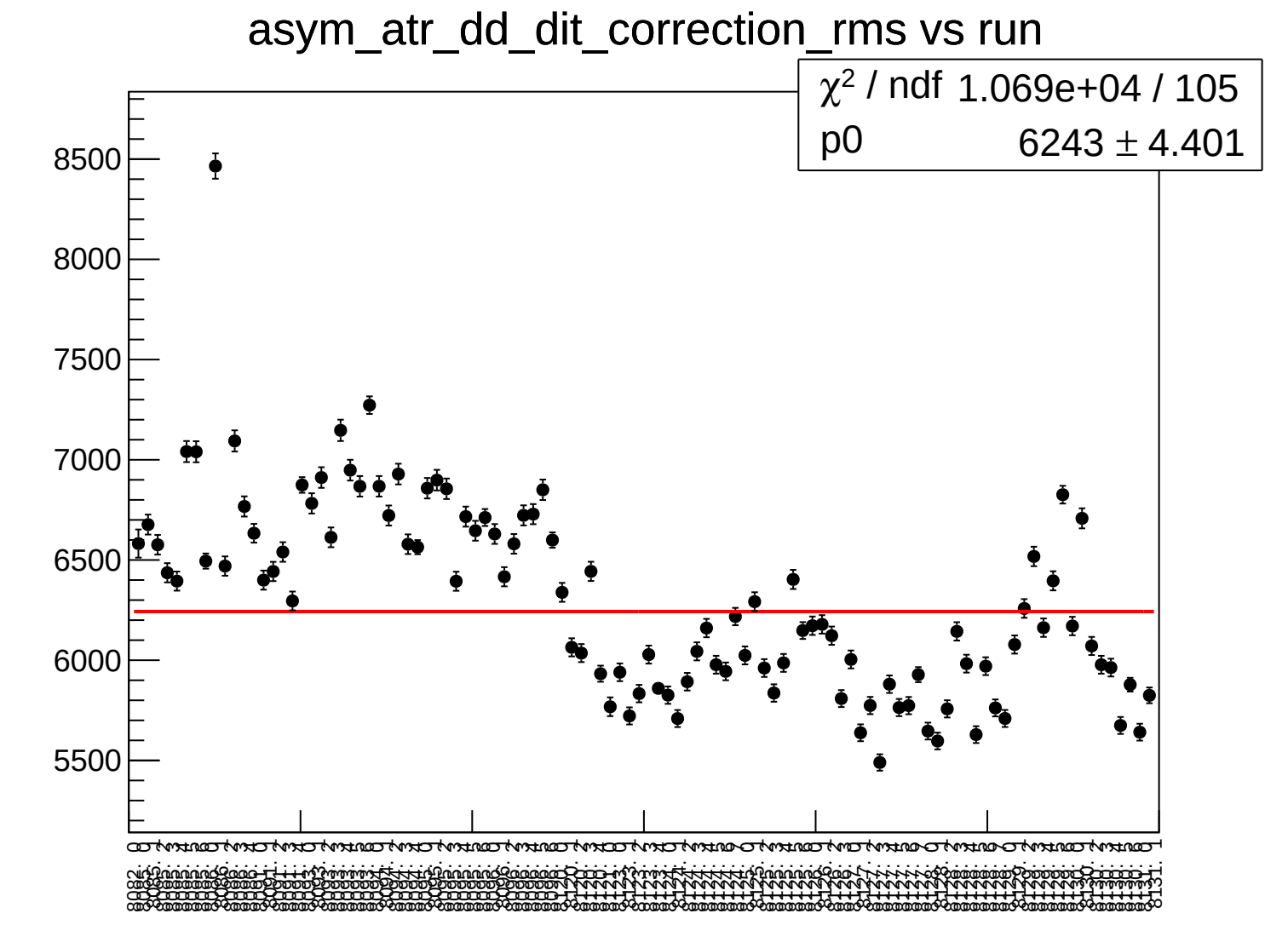

dit_asym_atr_dd_mean vs run
χ² / ndf 96.55 / 104
p0 601.3 ± 1790
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean −11.46
Std Dev 0
2
1
0
−1
−2

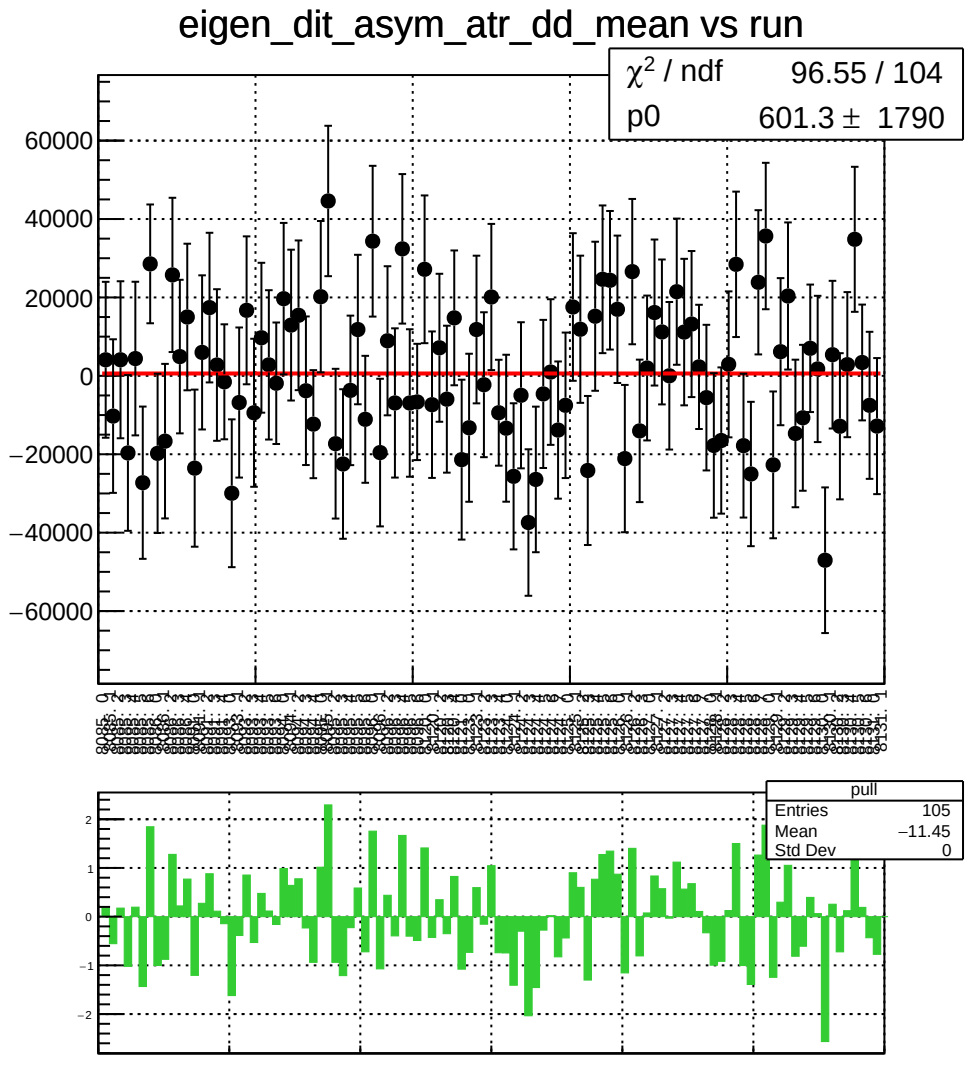

pull1D
Entries 105
Mean 0.002618
Std Dev 0.9589
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

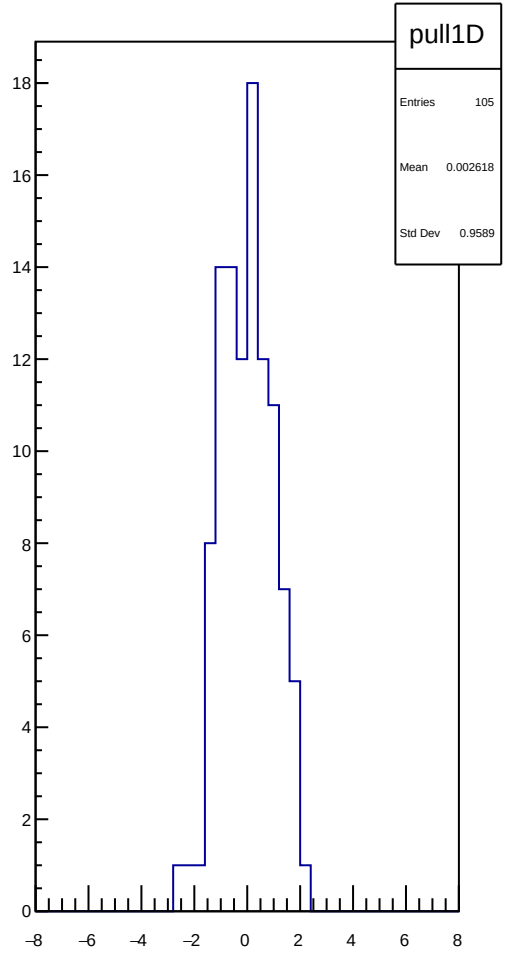

dit_asym_atr_dd_rms vs run
$\chi^2$ / ndf 804.8 / 104
p0 1796 ± 1.266
1950
1900
1850
1800
1750

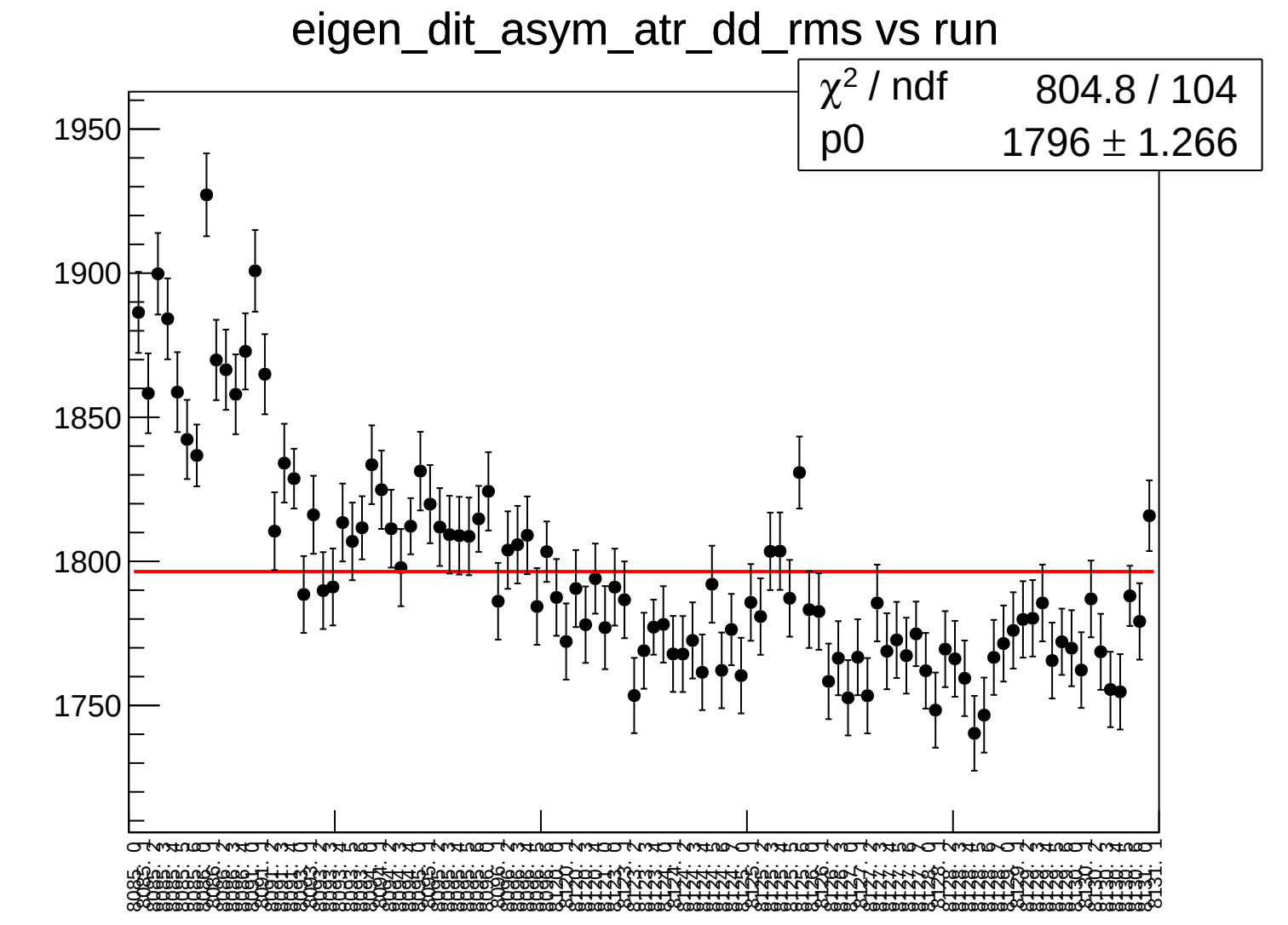

asym_atr_dd_dit_correction_mean vs run
×10^3
χ² / ndf 85.9 / 105
p0 −1.038e+04 ± 6224
200
100
0
−100
−200
−300
pull
Entries 106
Mean −130
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

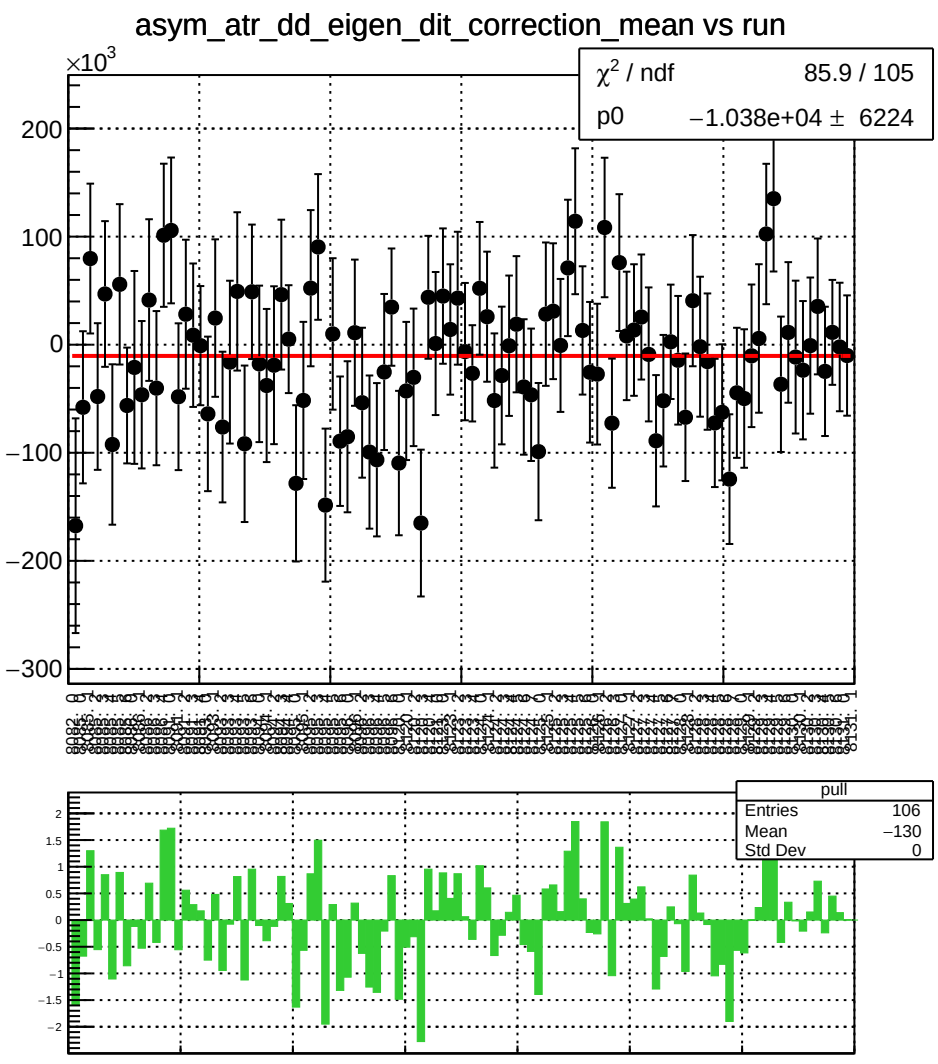

pull1D
Entries 106
Mean −0.01018
Std Dev 0.9002
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

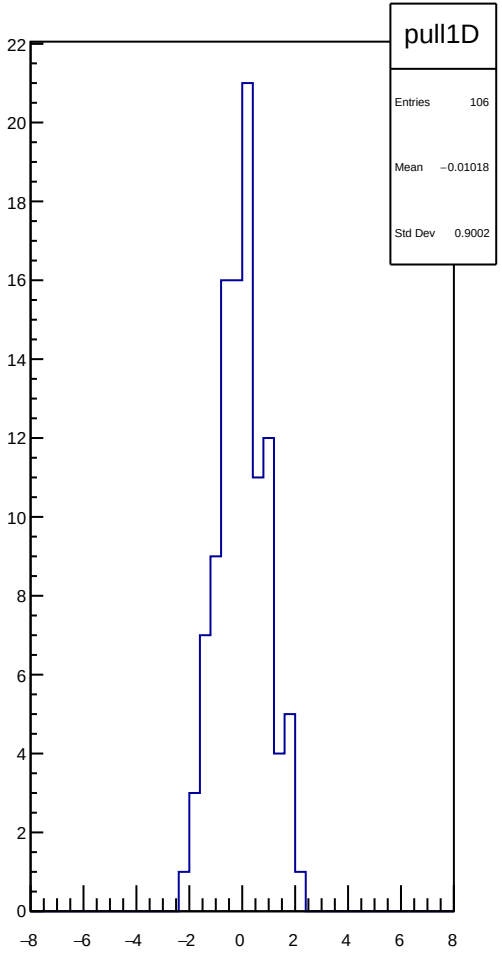

asym_atr_dd_dit_correction_rms vs run
χ² / ndf 1.069e+04 / 105
p0 6243 ± 4.401
8500
8000
7500
7000
6500
6000
5500

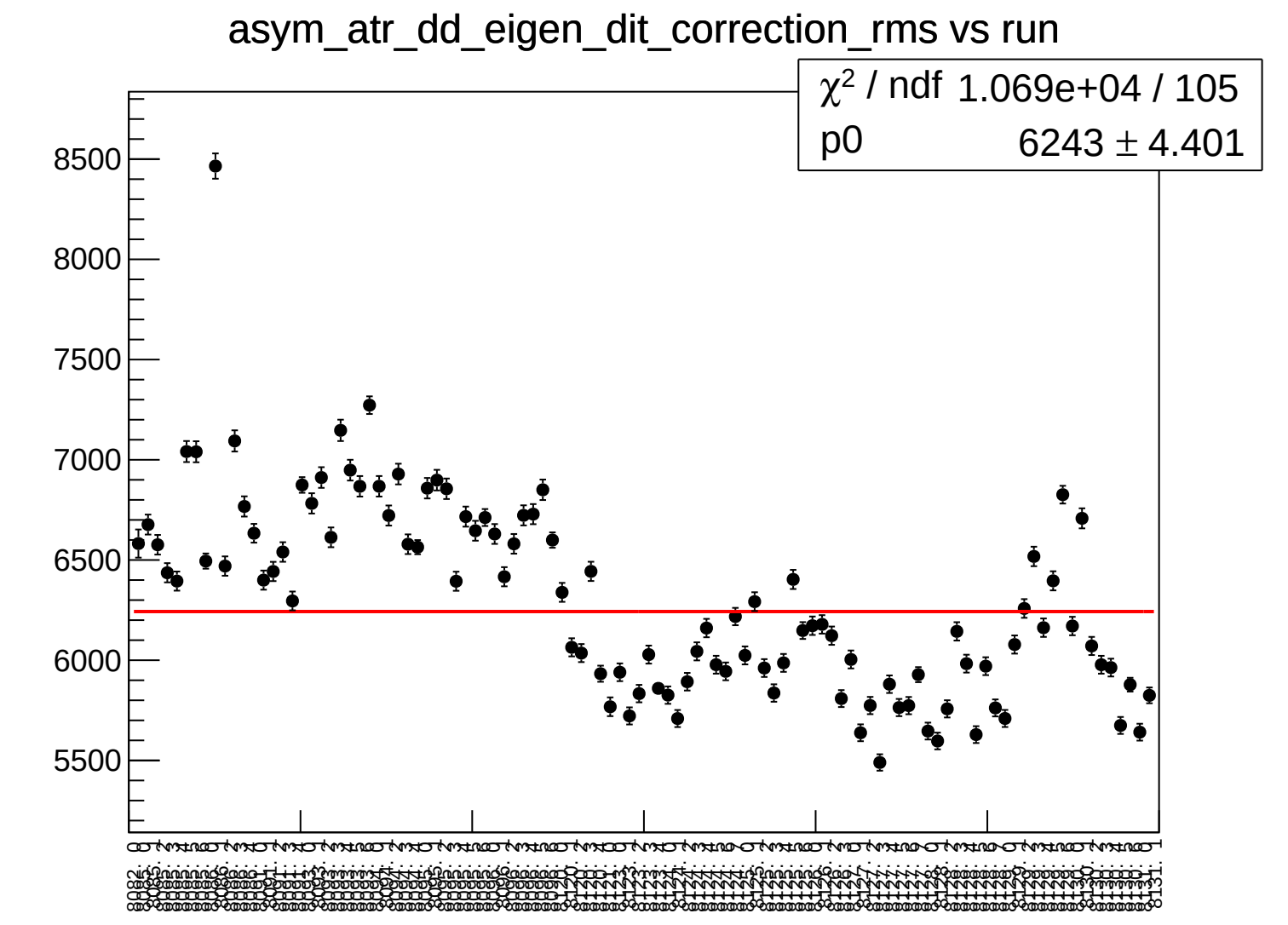

eigen_dit_asym_atr_dd_mean vs run
χ² / ndf 96.55 / 104
p0 601.3 ± 1790
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean −11.45
Std Dev 0
2
1
0
−1
−2

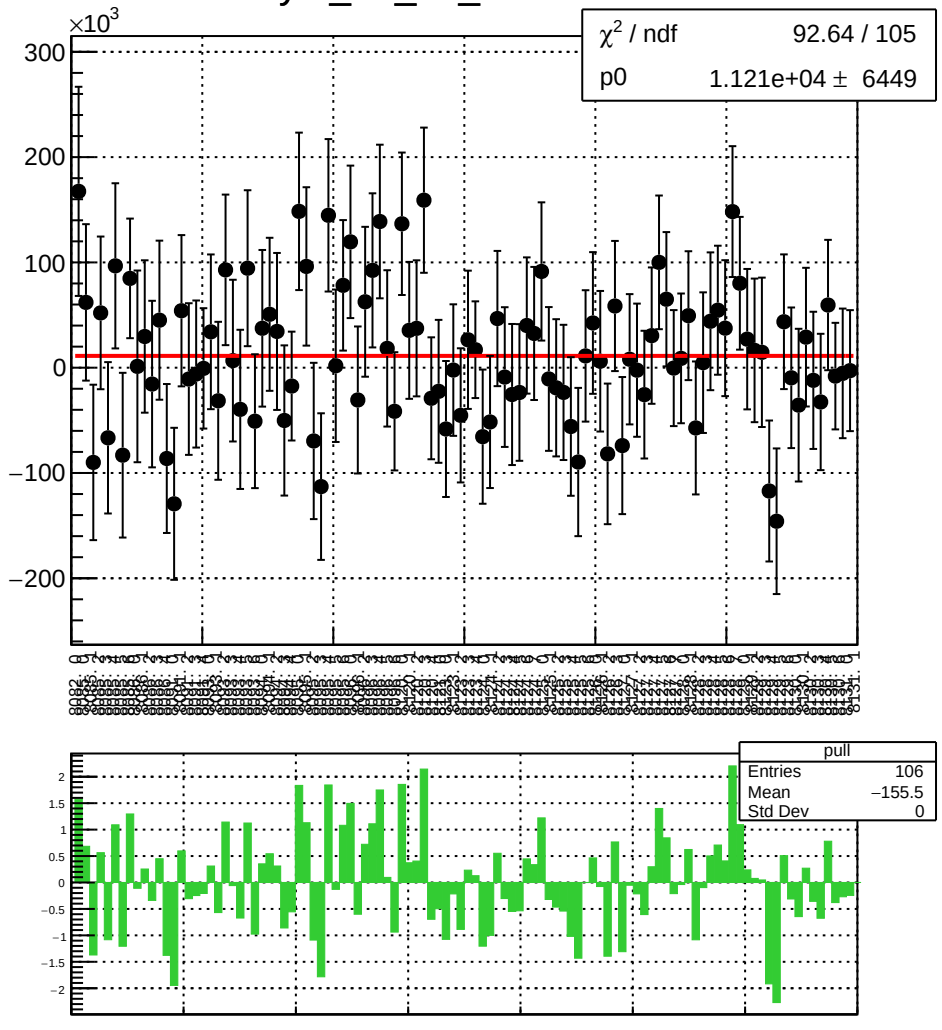

pull1D
Entries 105
Mean 0.002618
Std Dev 0.9589
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

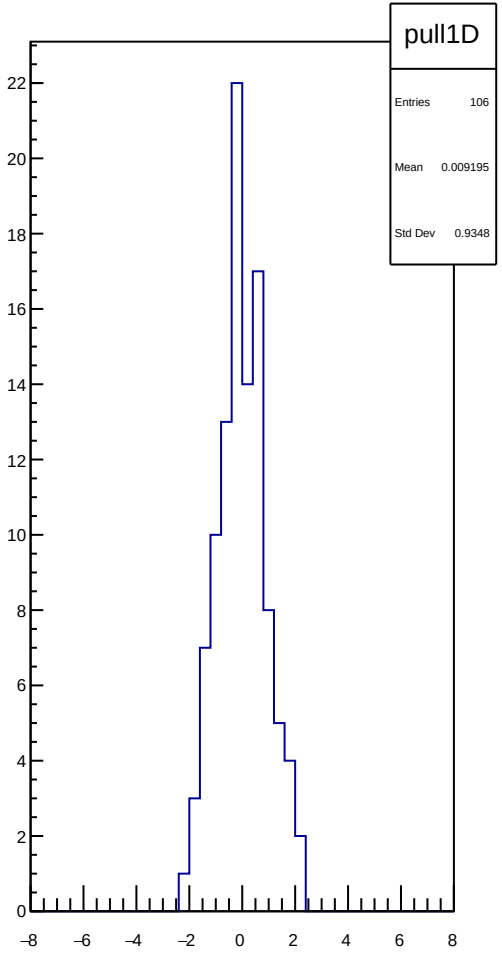

eigen_dit_asym_atr_dd_rms vs run
χ² / ndf 804.8 / 104
p0 1796 ± 1.266
1950
1900
1850
1800
1750

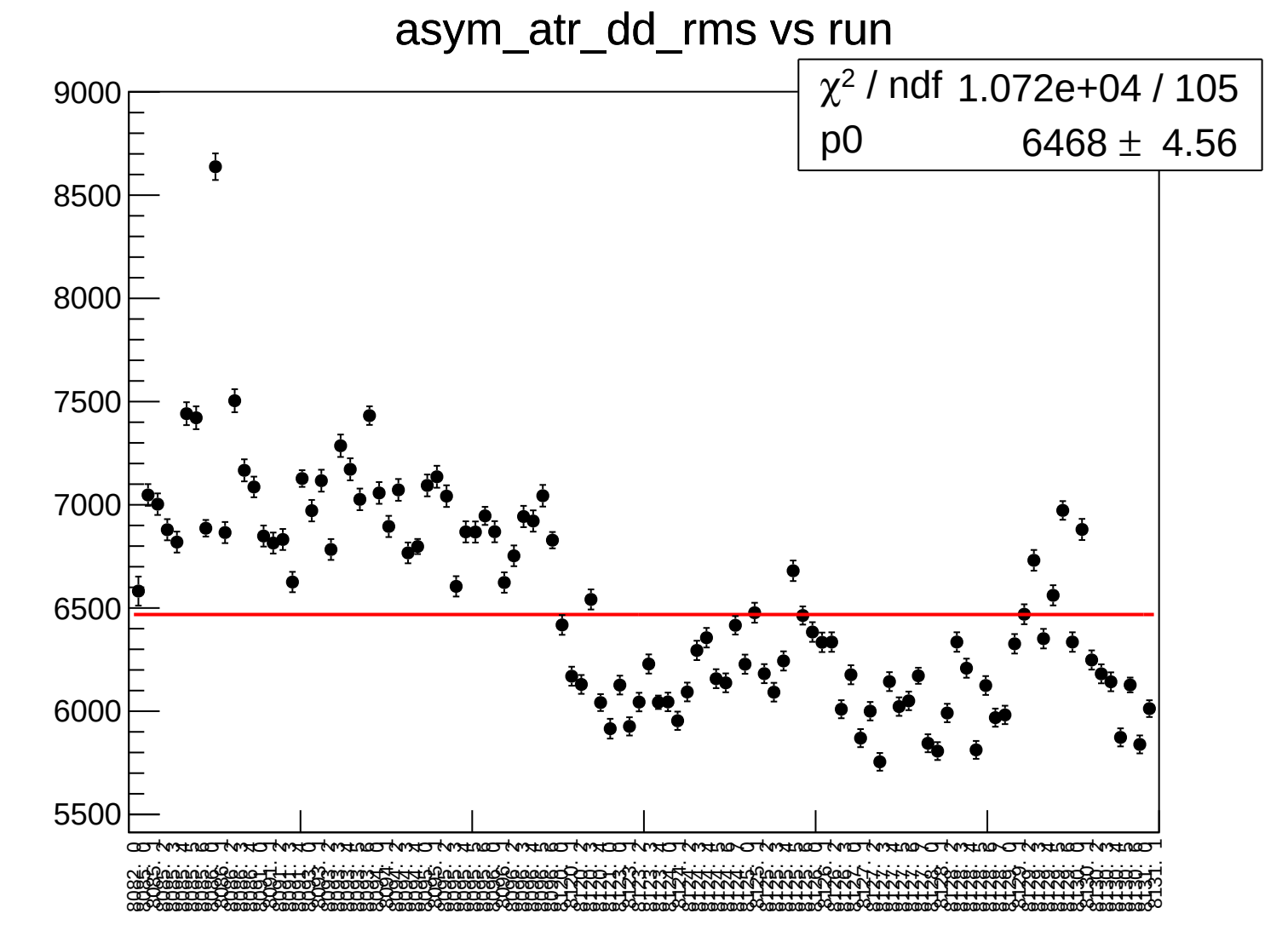

asym_atr_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 85.9 / 105
p0 −1.038e+04 ± 6224
200
100
0
−100
−200
−300
pull
Entries 106
Mean −130
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

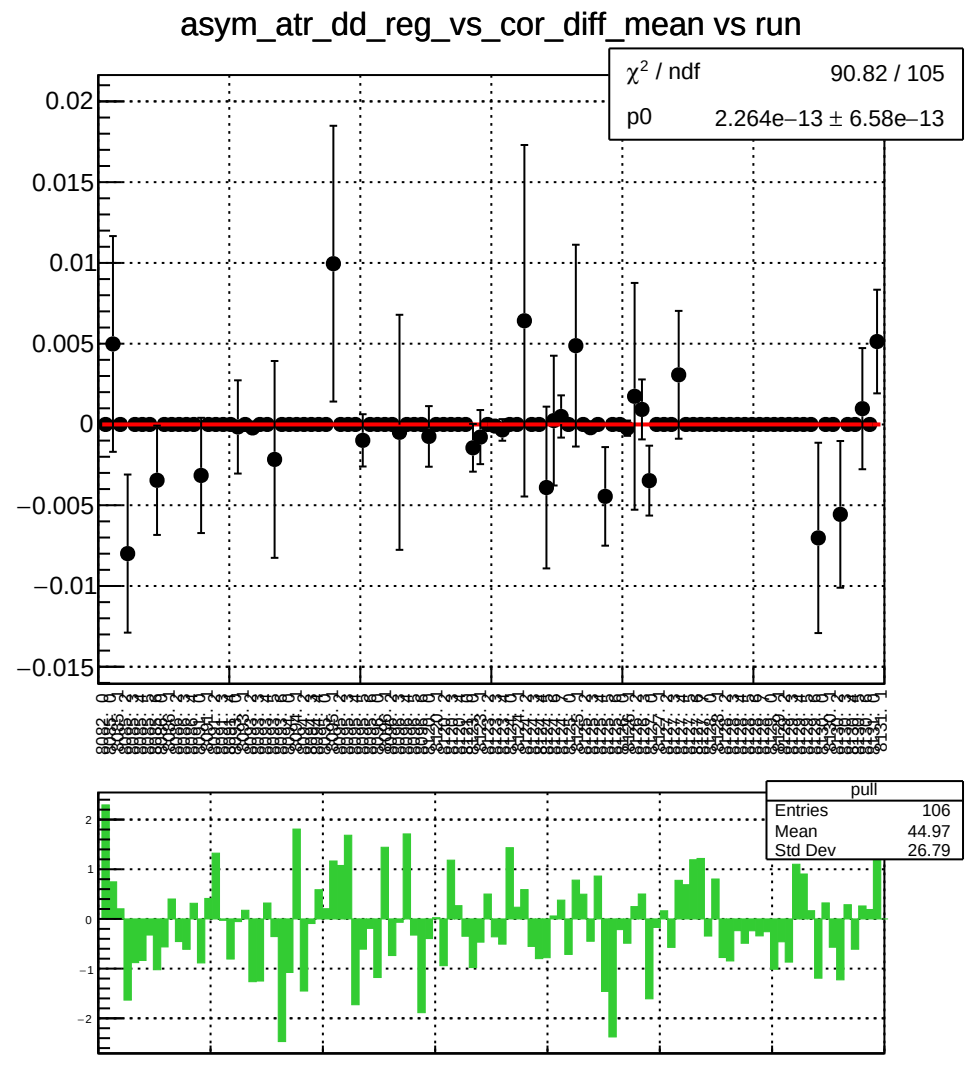

pull1D
Entries 106
Mean −0.01018
Std Dev 0.9002
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

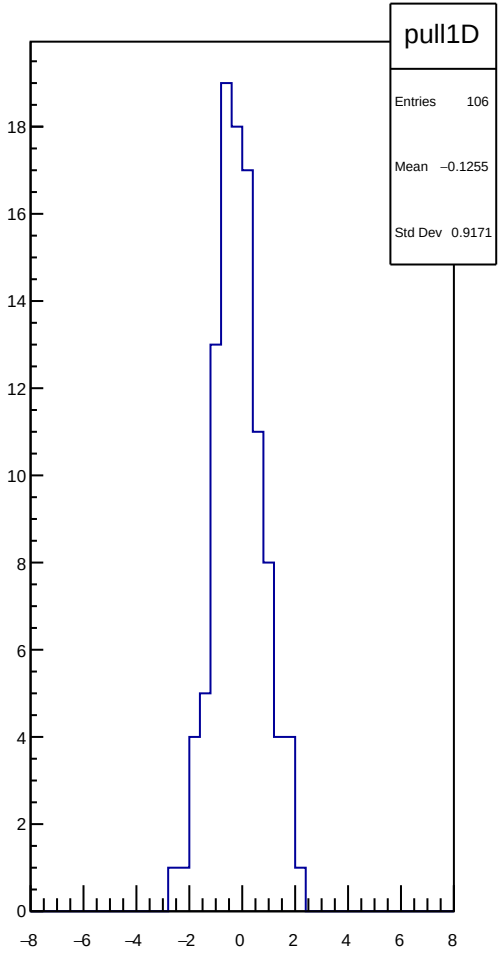

asym_atr_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.069e+04 / 105
p0 6243 ± 4.401
8500
8000
7500
7000
6500
6000
5500

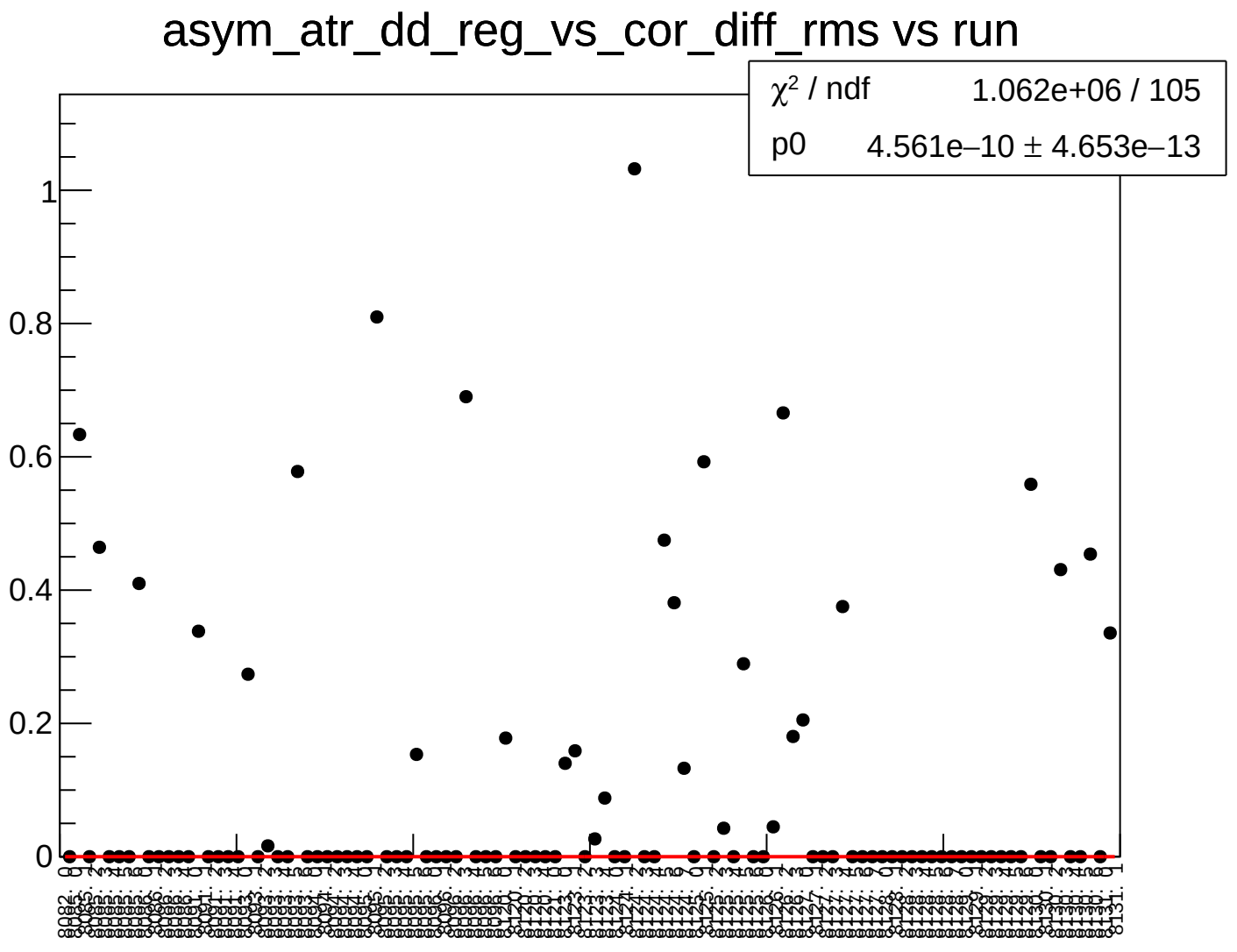

asym_atr_dd_mean vs run
×10^3
χ² / ndf 92.64 / 105
p0 1.121e+04 ± 6449
pull
Entries 106
Mean −155.5
Std Dev 0

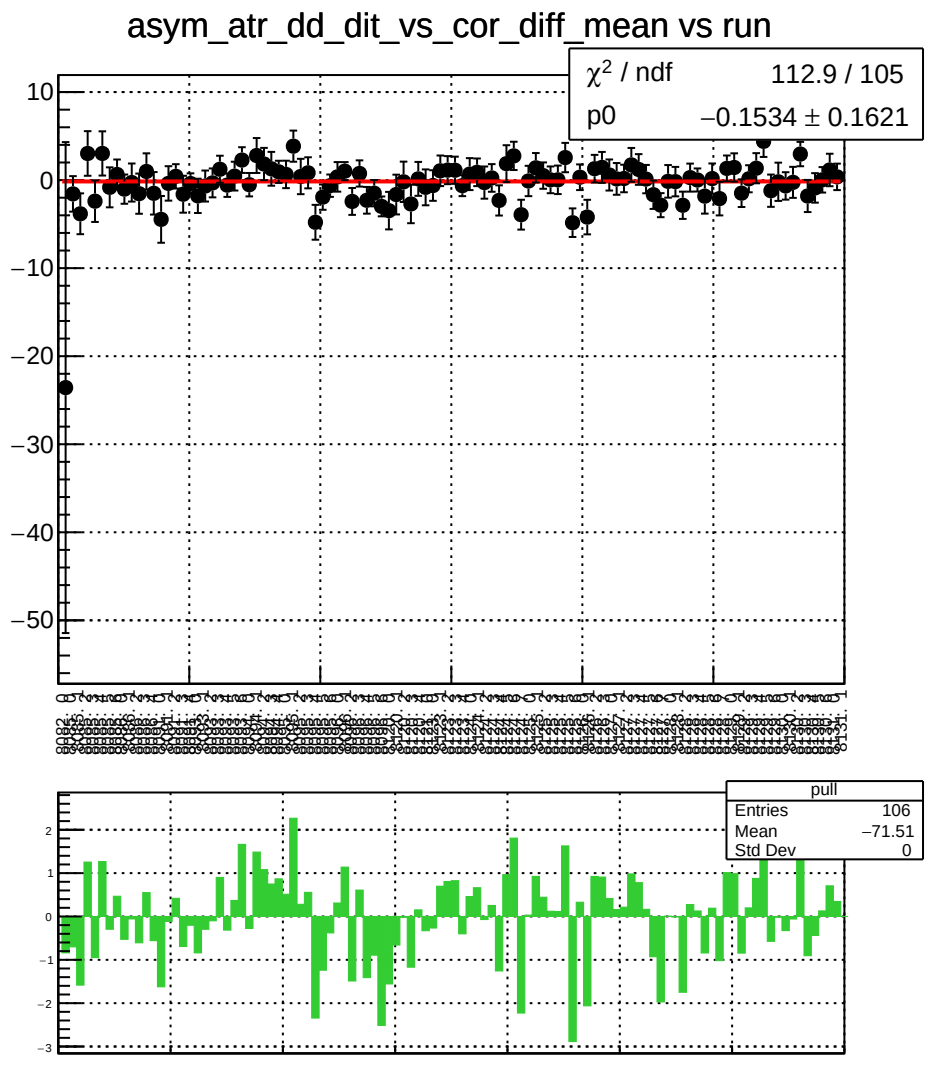

pull1D
Entries 106
Mean 0.009195
Std Dev 0.9348

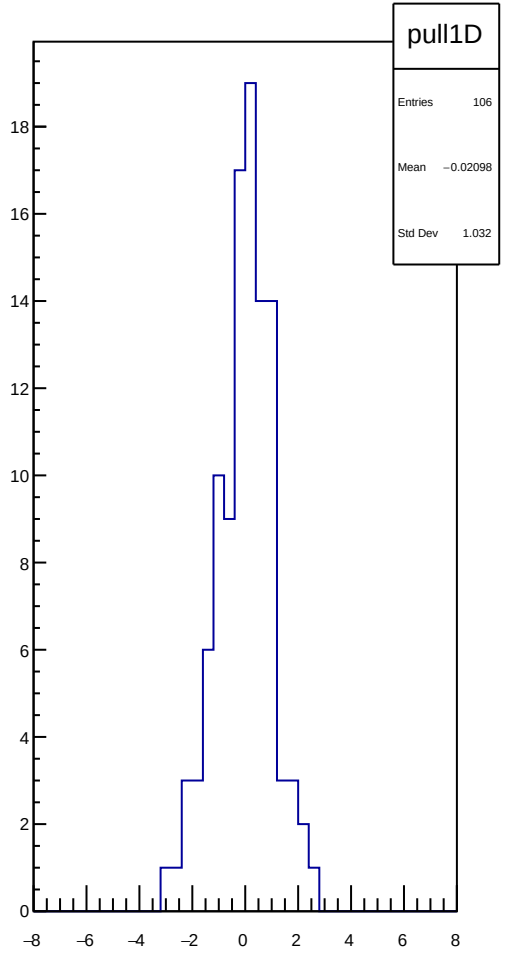

asym_atr_dd_rms vs run
χ² / ndf 1.072e+04 / 105
p0 6468 ± 4.56
9000
8500
8000
7500
7000
6500
6000
5500

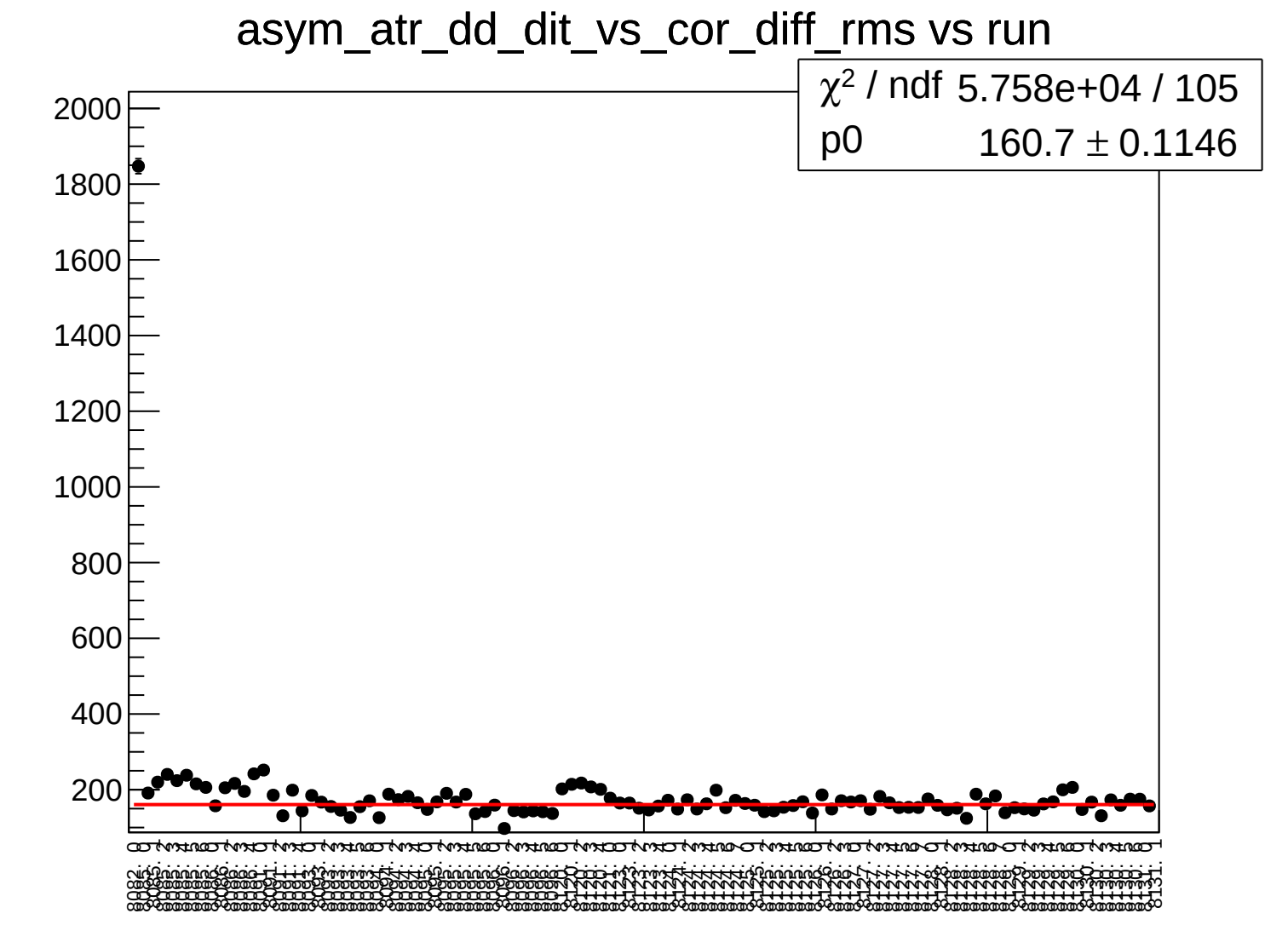

asym_atr_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 90.82 / 105
p0 2.264e−13 ± 6.58e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 106
Mean 44.97
Std Dev 26.79
2
1
0
−1
−2

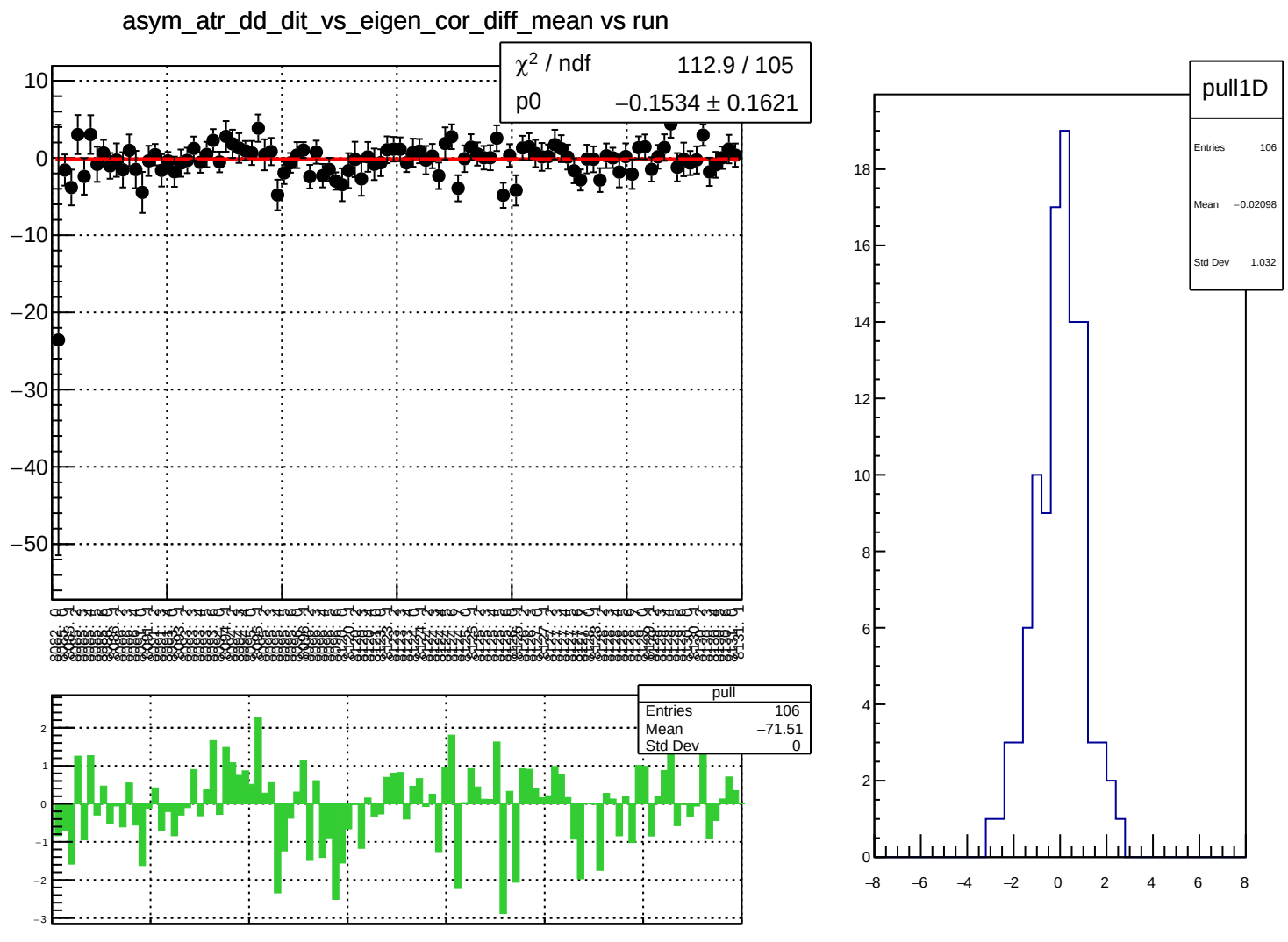

pull1D
Entries 106
Mean −0.1255
Std Dev 0.9171
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

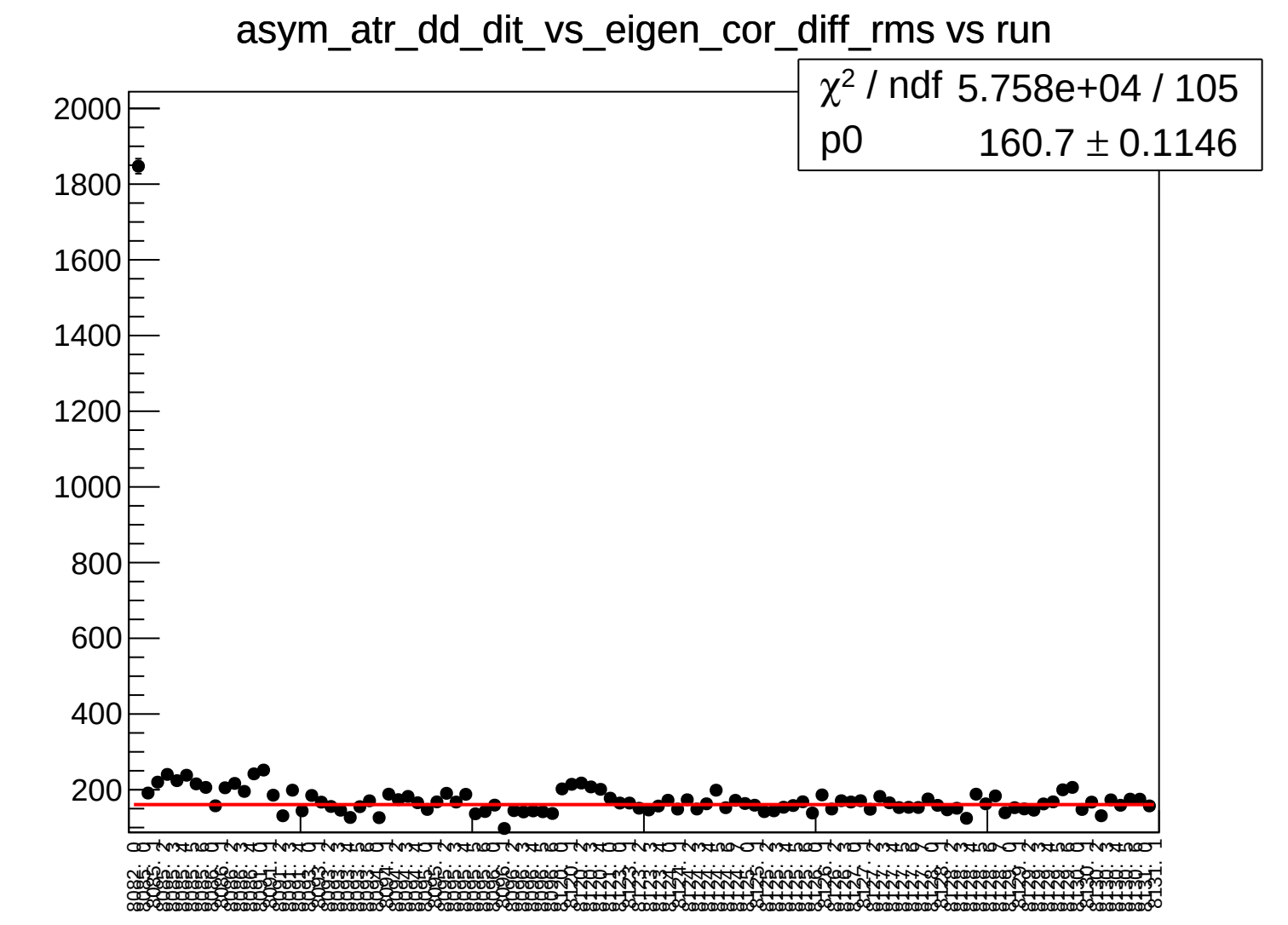

asym_atr_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.062e+06 / 105
p0 4.561e−10 ± 4.653e−13
1
0.8
0.6
0.4
0.2
0

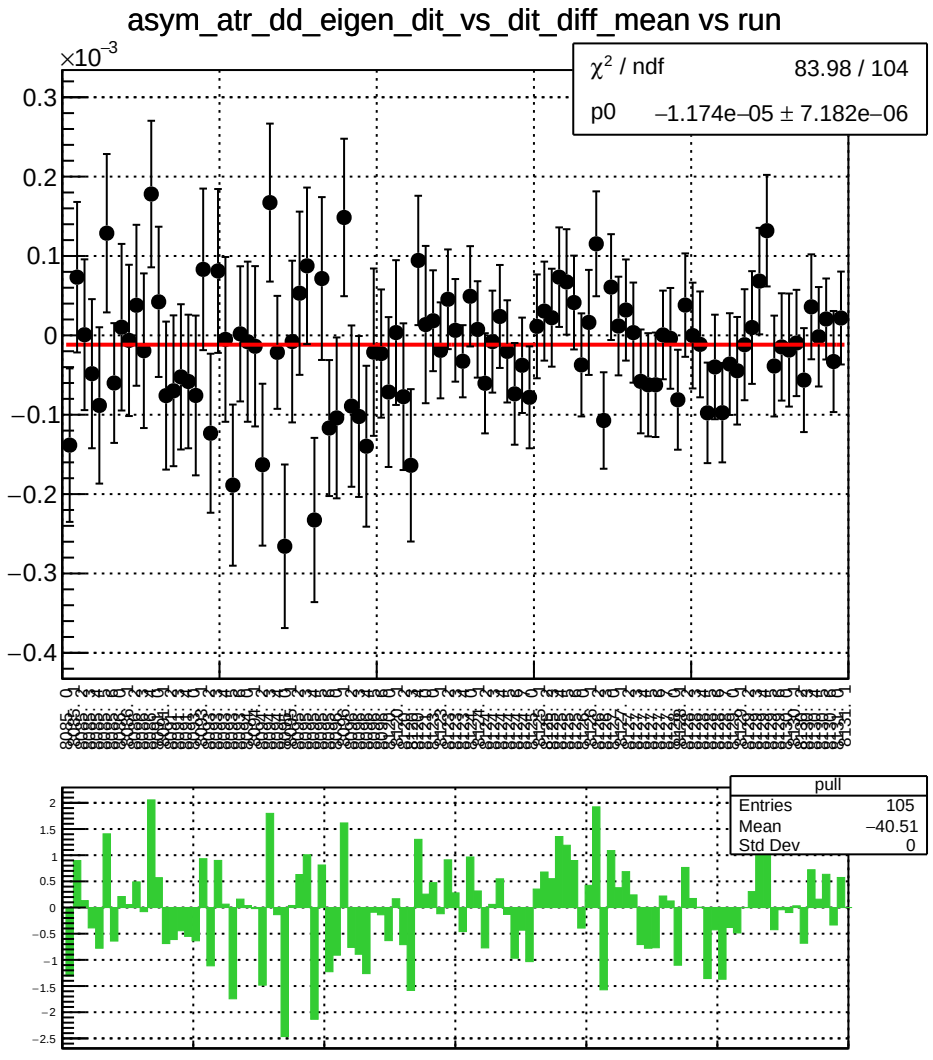

asym_atr_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 112.9 / 105
p0 −0.1534 ± 0.1621
pull
Entries 106
Mean −71.51
Std Dev 0

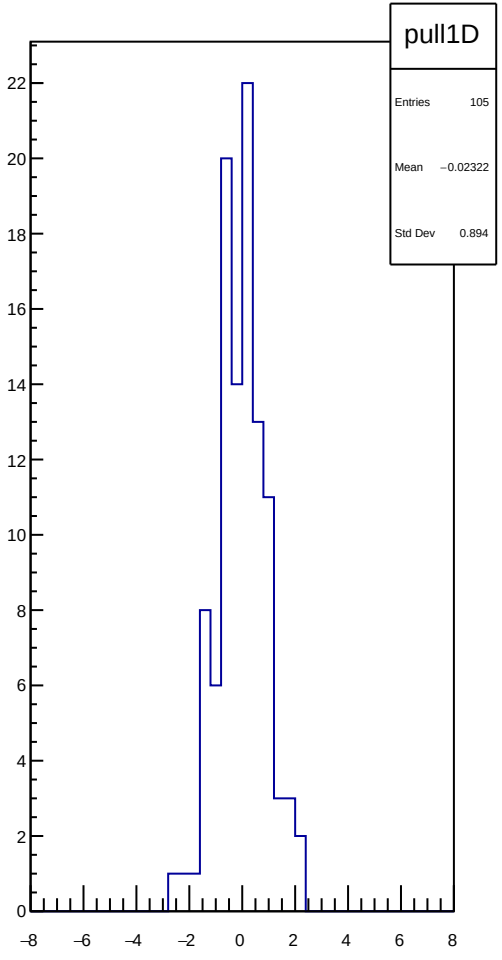

pull1D
Entries 106
Mean −0.02098
Std Dev 1.032

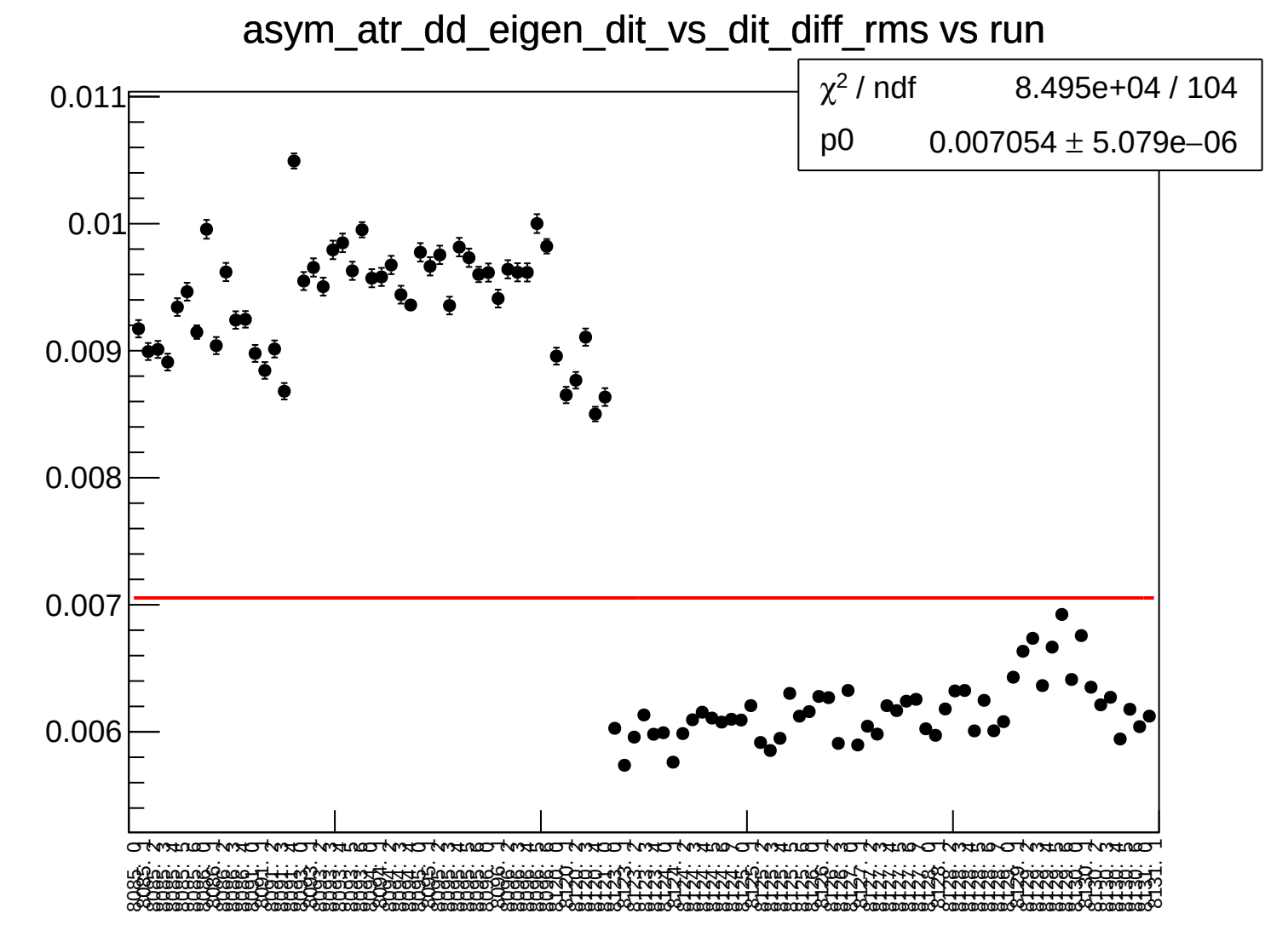

asym_atr_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.758e+04 / 105
p0 160.7 ± 0.1146
2000
1800
1600
1400
1200
1000
800
600
400
200

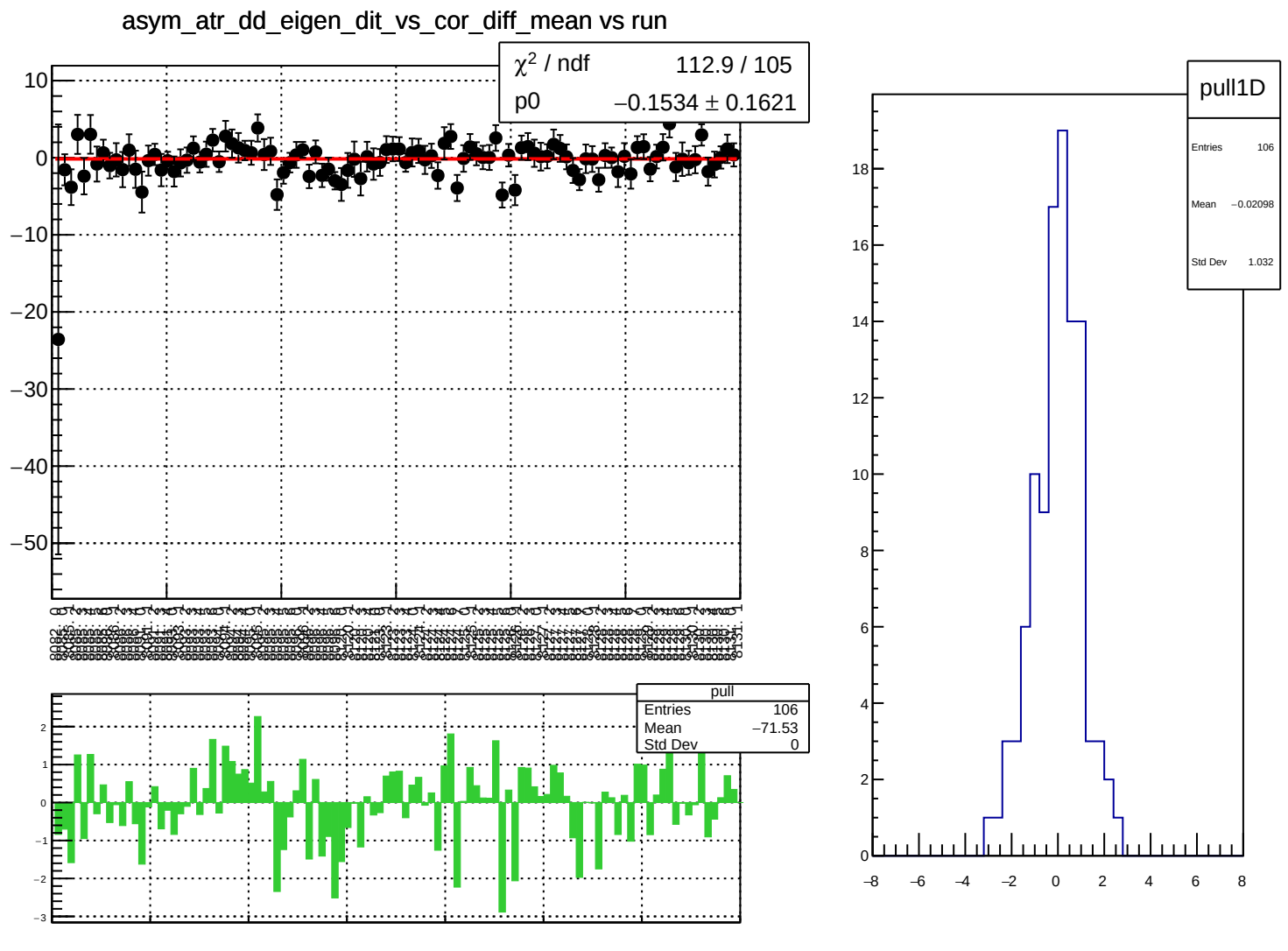

asym_atr_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 112.9 / 105
p0 −0.1534 ± 0.1621
pull
Entries 106
Mean −71.51
Std Dev 0
pull1D
Entries 106
Mean −0.02098
Std Dev 1.032

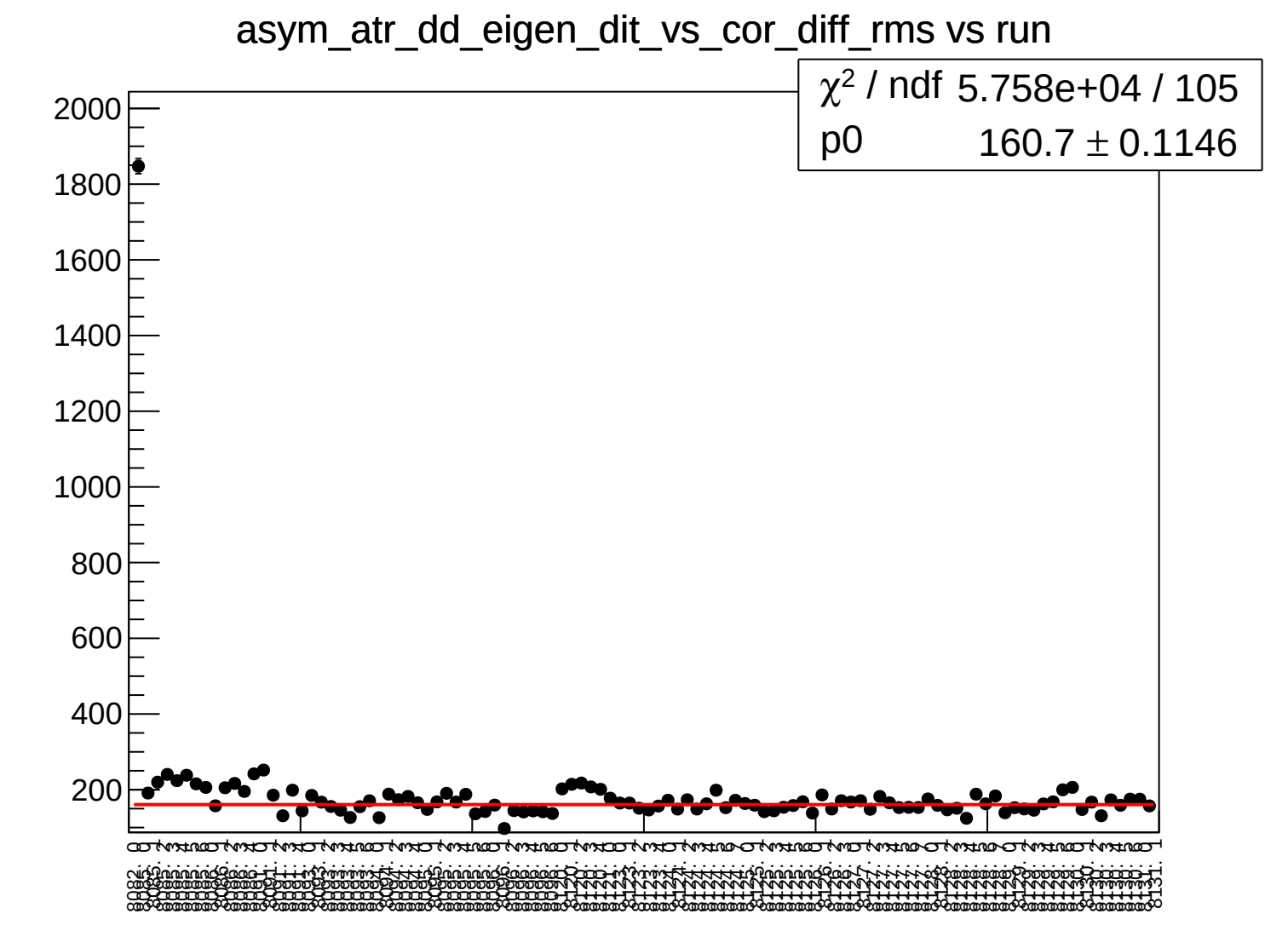

asym_atr_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.758e+04 / 105
p0 160.7 ± 0.1146
2000
1800
1600
1400
1200
1000
800
600
400
200

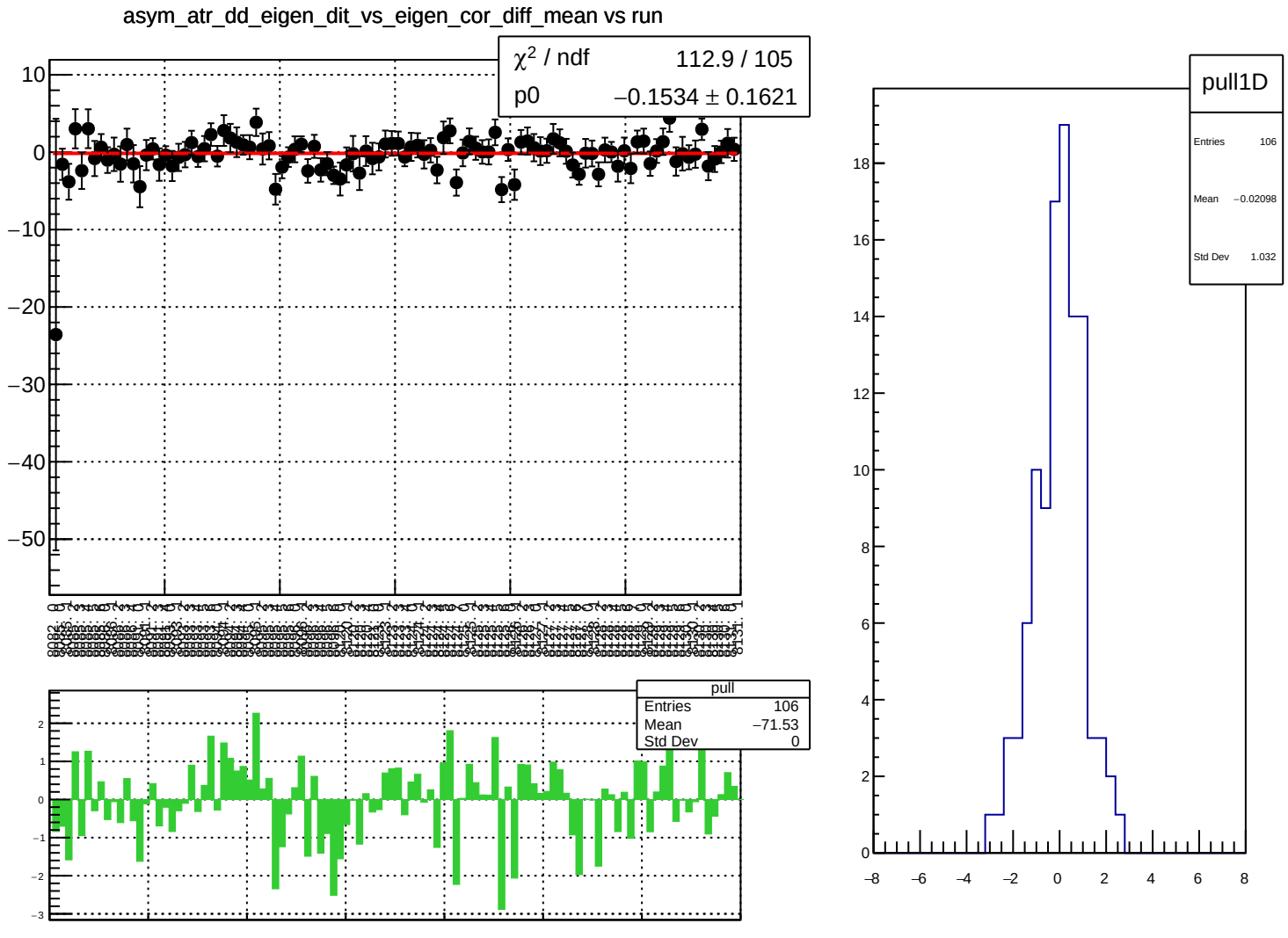

asym_atr_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 83.98 / 104
p0 −1.174e−05 ± 7.182e−06
pull
Entries 105
Mean −40.51
Std Dev 0

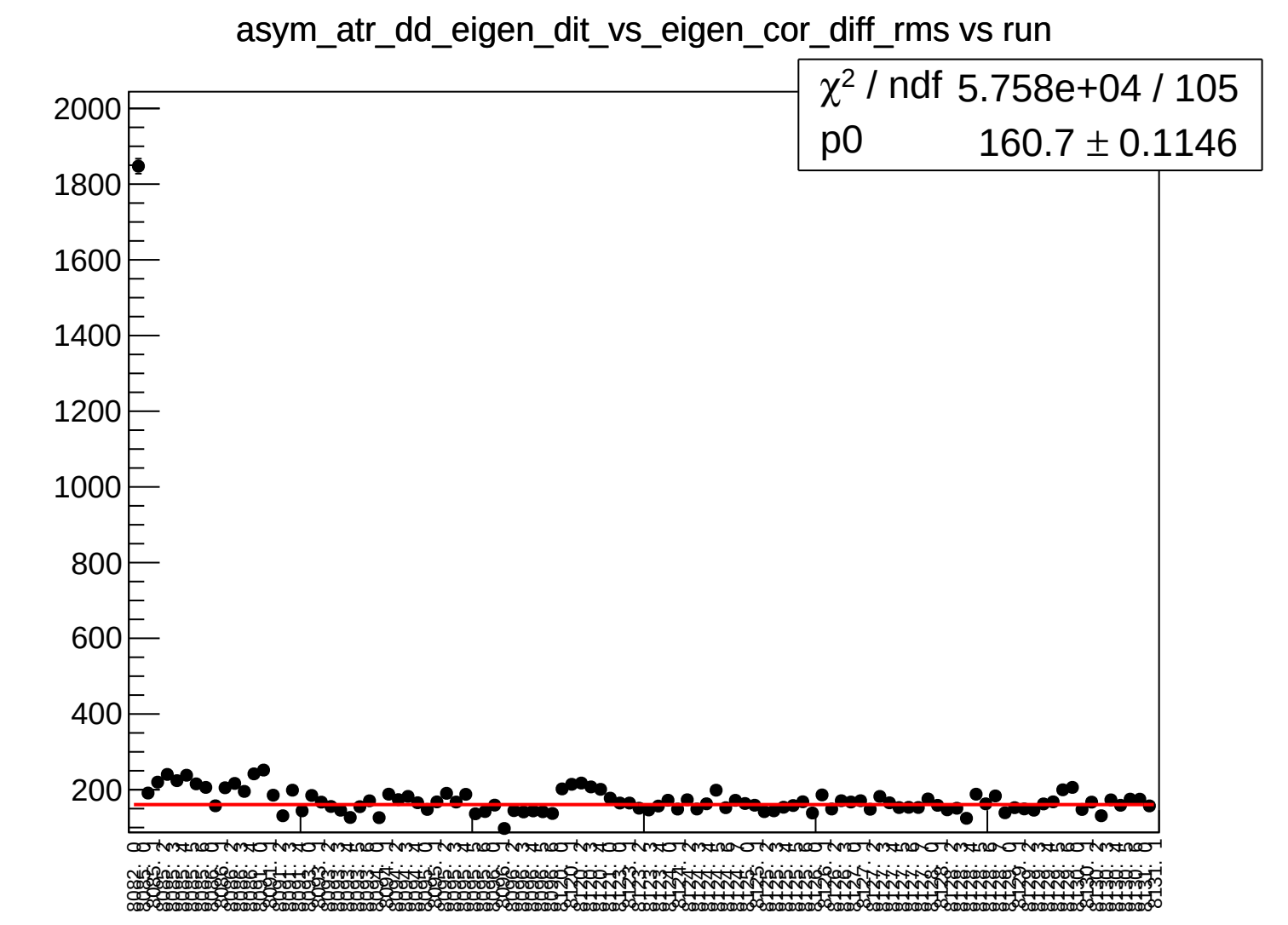

pull1D
Entries 105
Mean −0.02322
Std Dev 0.894

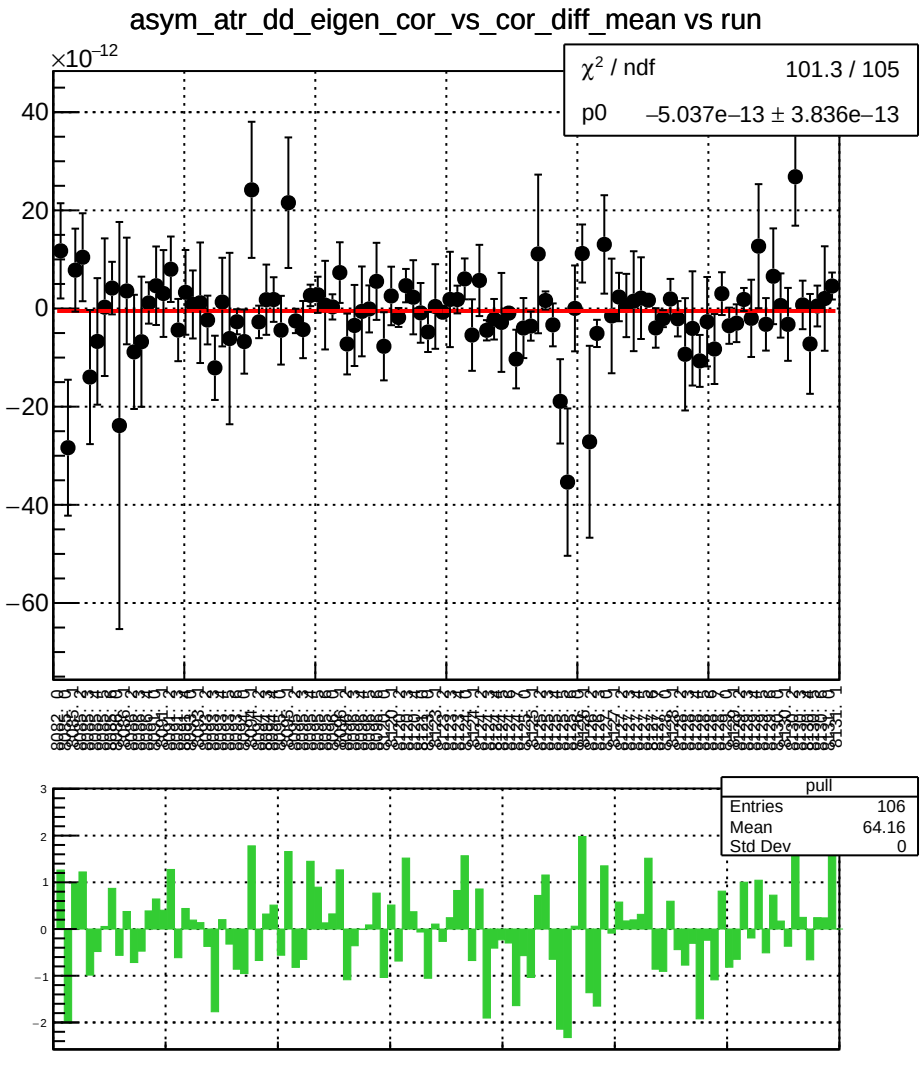

asym_atr_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.495e+04 / 104
p0 0.007054 ± 5.079e−06
0.011
0.01
0.009
0.008
0.007
0.006

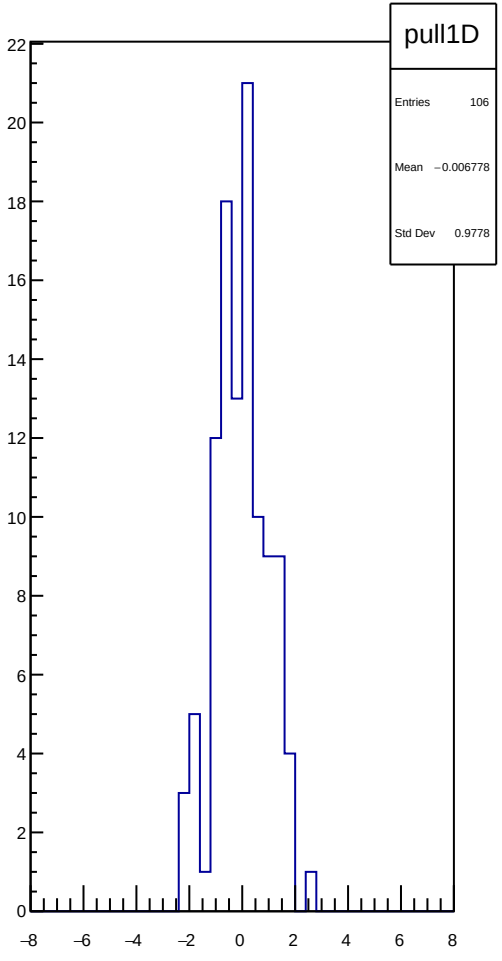

asym_atr_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 112.9 / 105
p0 −0.1534 ± 0.1621
pull
Entries 106
Mean −71.53
Std Dev 0
pull1D
Entries 106
Mean −0.02098
Std Dev 1.032

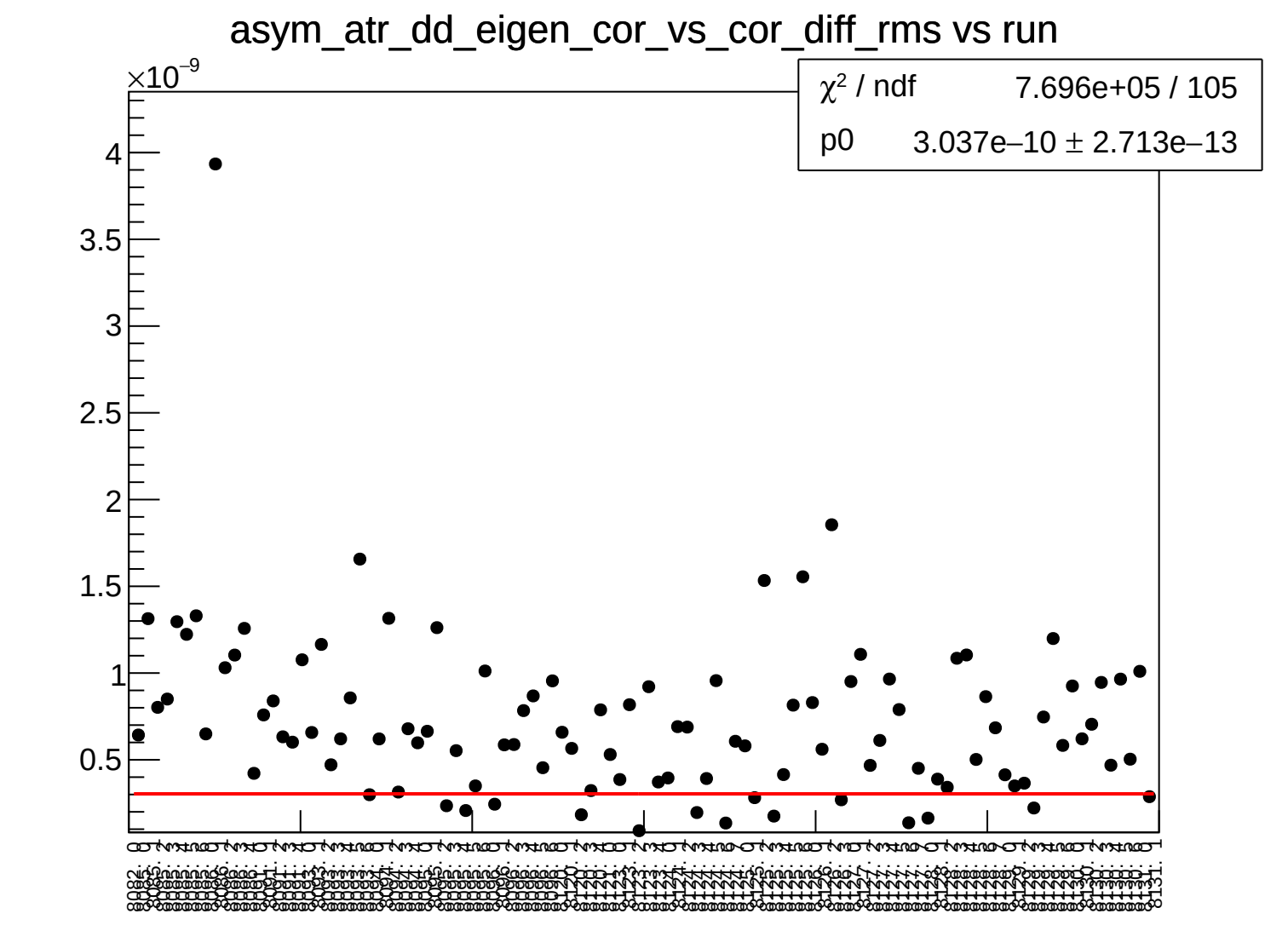

asym_atr_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.758e+04 / 105
p0 160.7 ± 0.1146
2000
1800
1600
1400
1200
1000
800
600
400
200

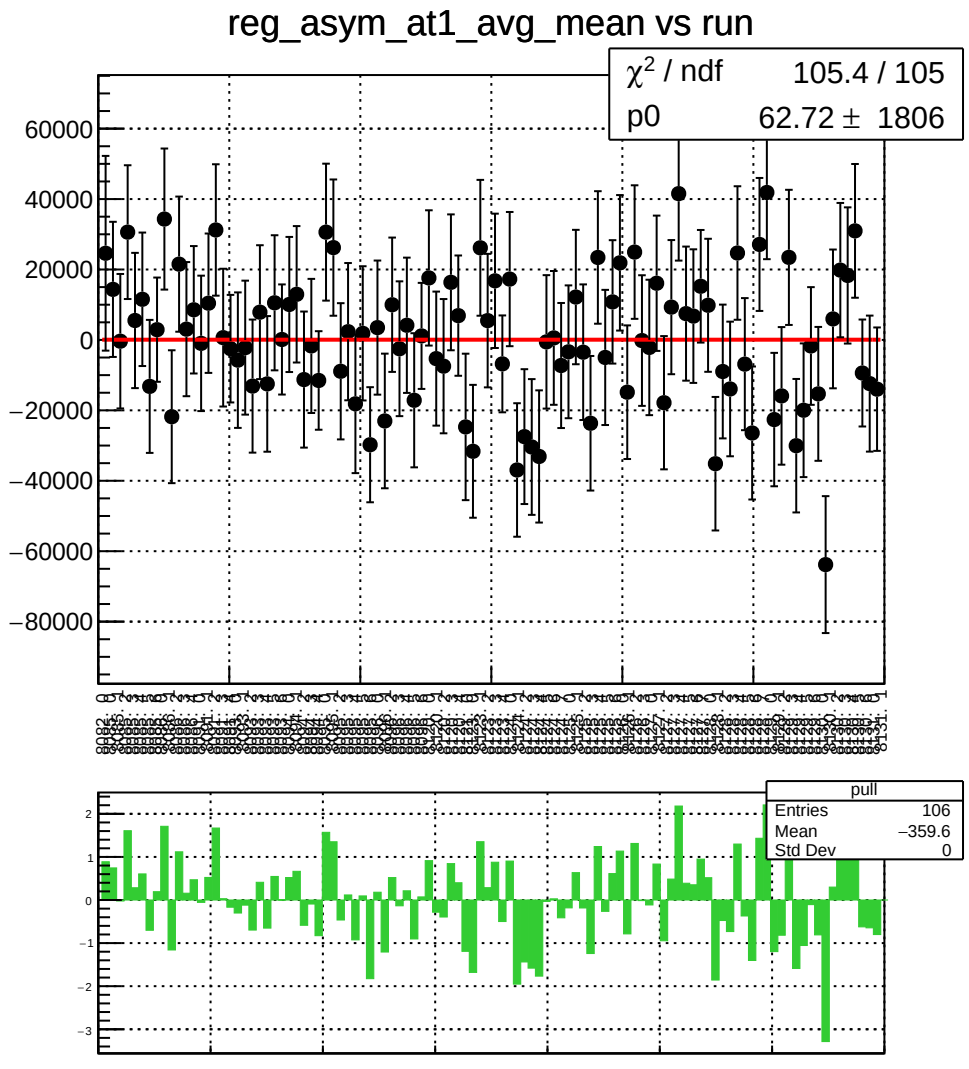

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 112.9 / 105
p0 −0.1534 ± 0.1621
pull
Entries 106
Mean −71.53
Std Dev 0
pull1D
Entries 106
Mean −0.02098
Std Dev 1.032

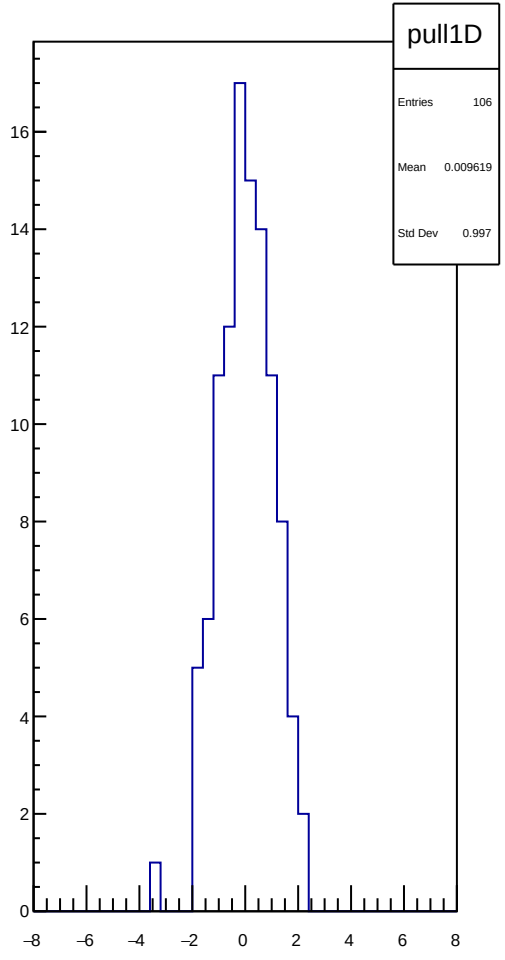

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.758e+04 / 105
p0 160.7 ± 0.1146
2000
1800
1600
1400
1200
1000
800
600
400
200

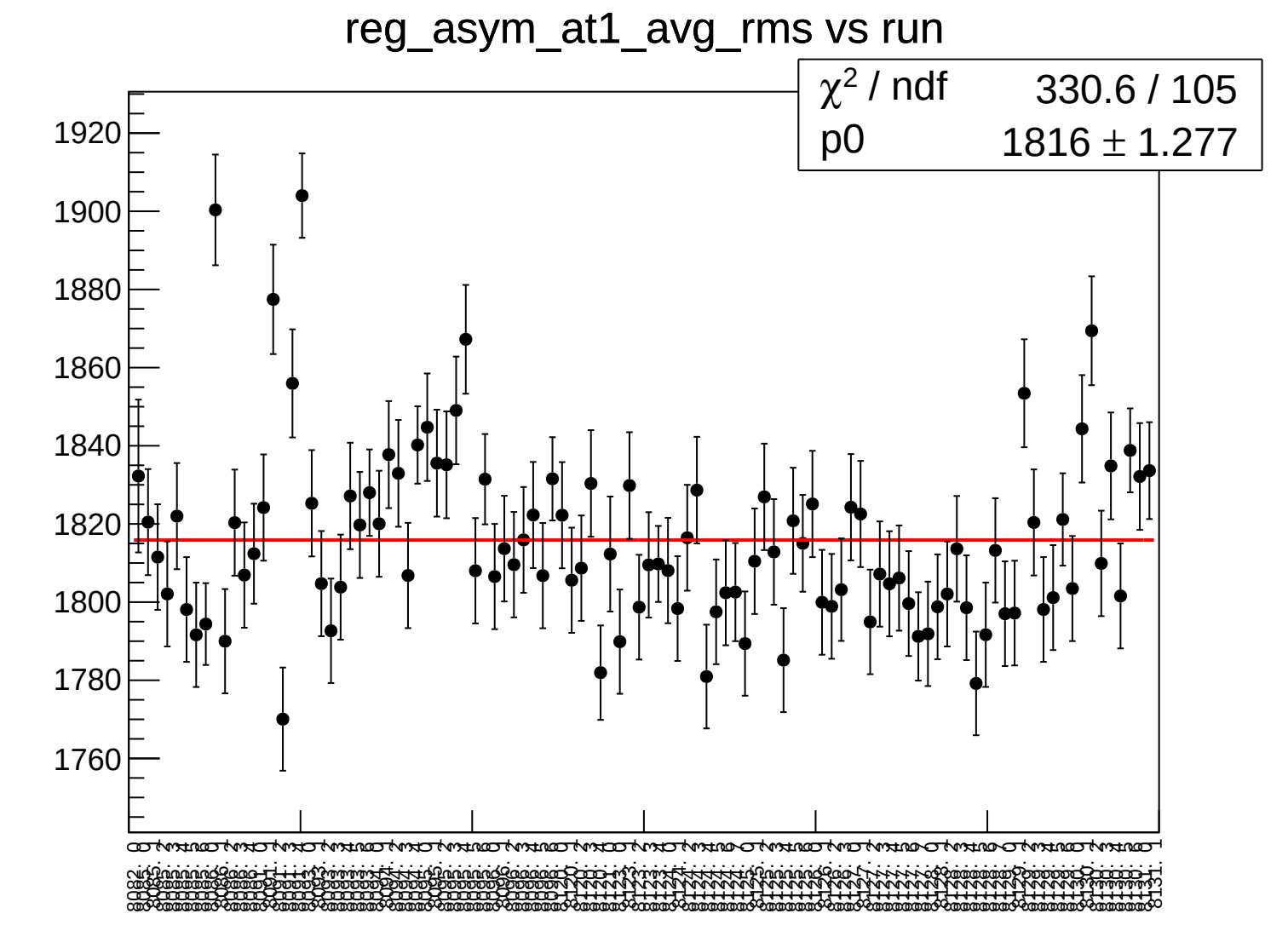

asym_atr_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 101.3 / 105
p0 −5.037e−13 ± 3.836e−13
pull
Entries 106
Mean 64.16
Std Dev 0

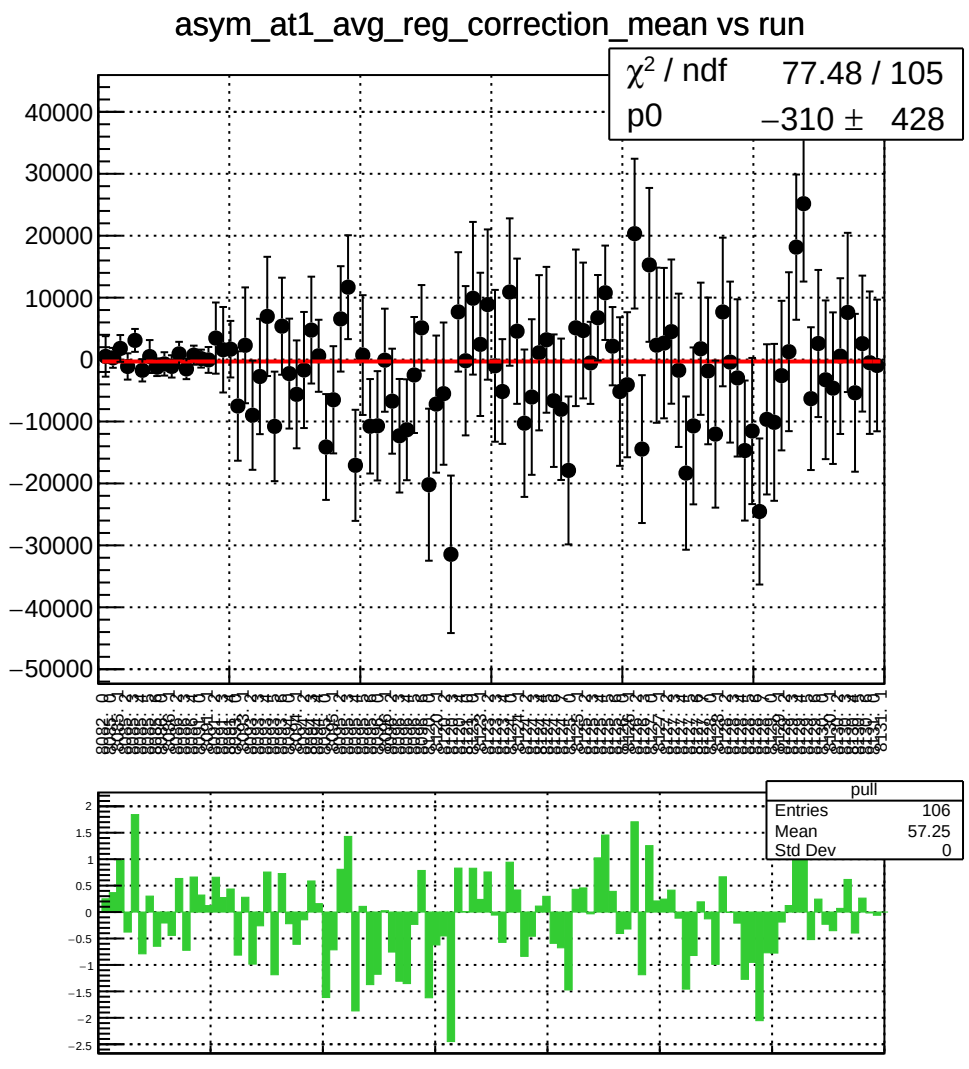

pull1D
Entries 106
Mean −0.006778
Std Dev 0.9778

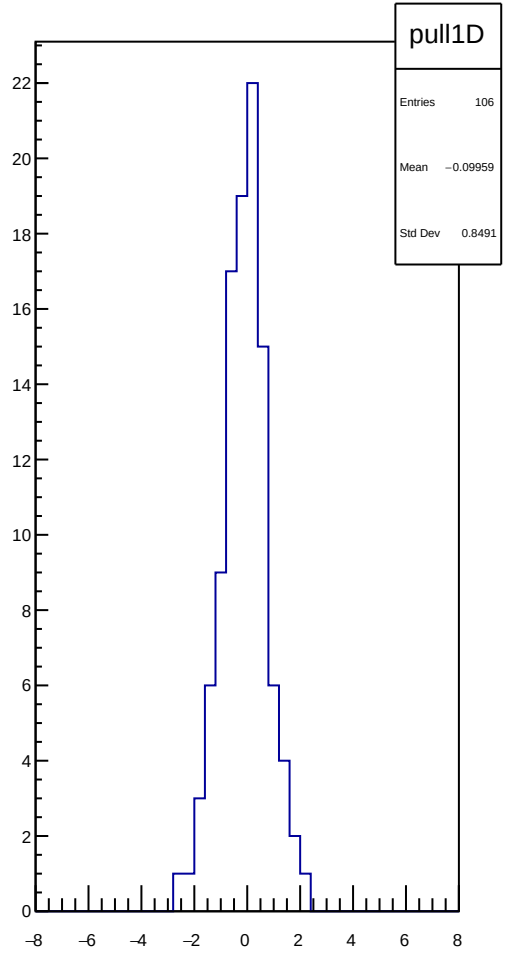

asym_atr_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.696e+05 / 105
p0 3.037e−10 ± 2.713e−13
4
3.5
3
2.5
2
1.5
1
0.5

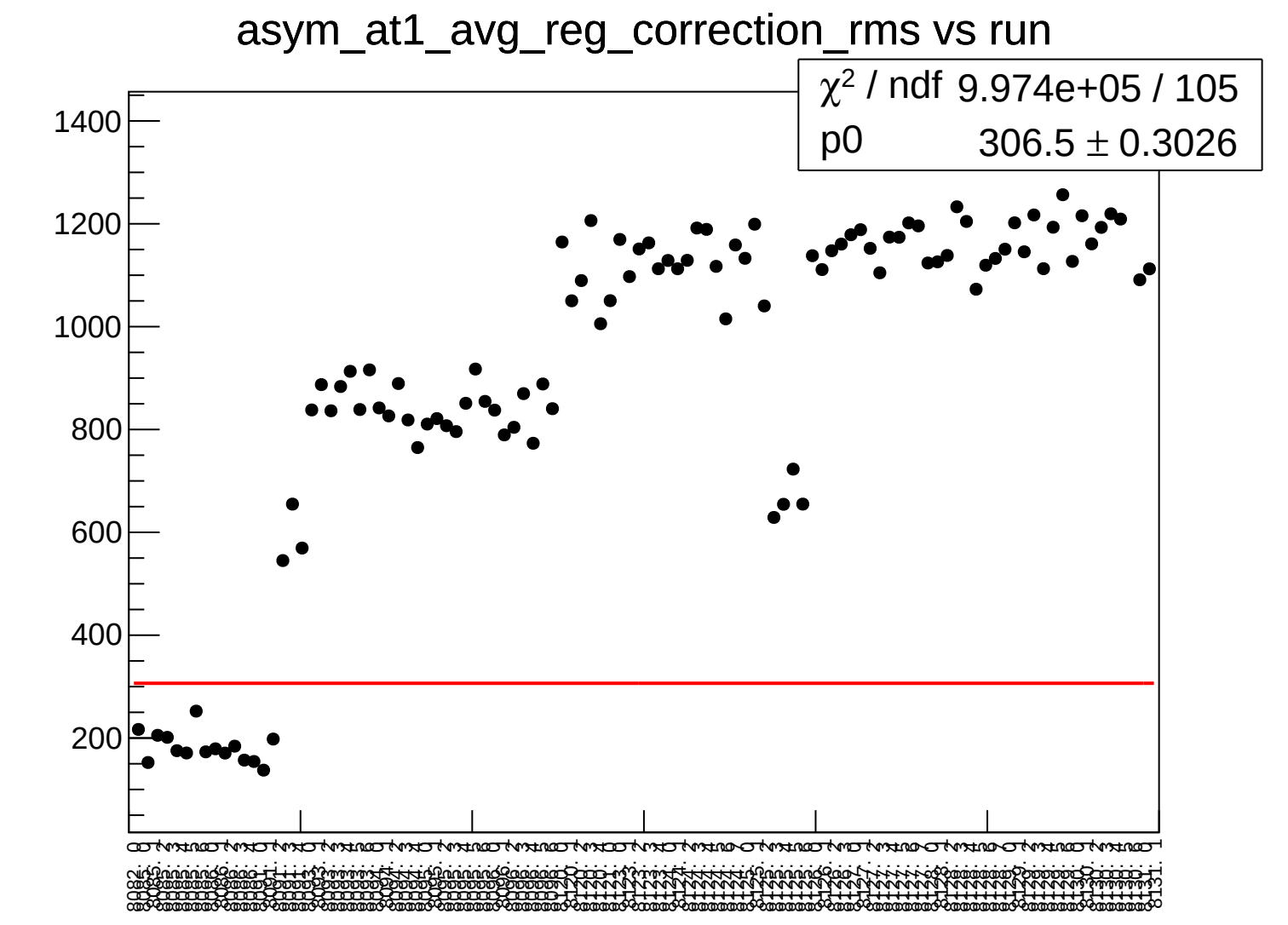

reg_asym_at1_avg_mean vs run
χ² / ndf 105.4 / 105
p0 62.72 ± 1806
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 106
Mean −359.6
Std Dev 0
2
1
0
−1
−2
−3

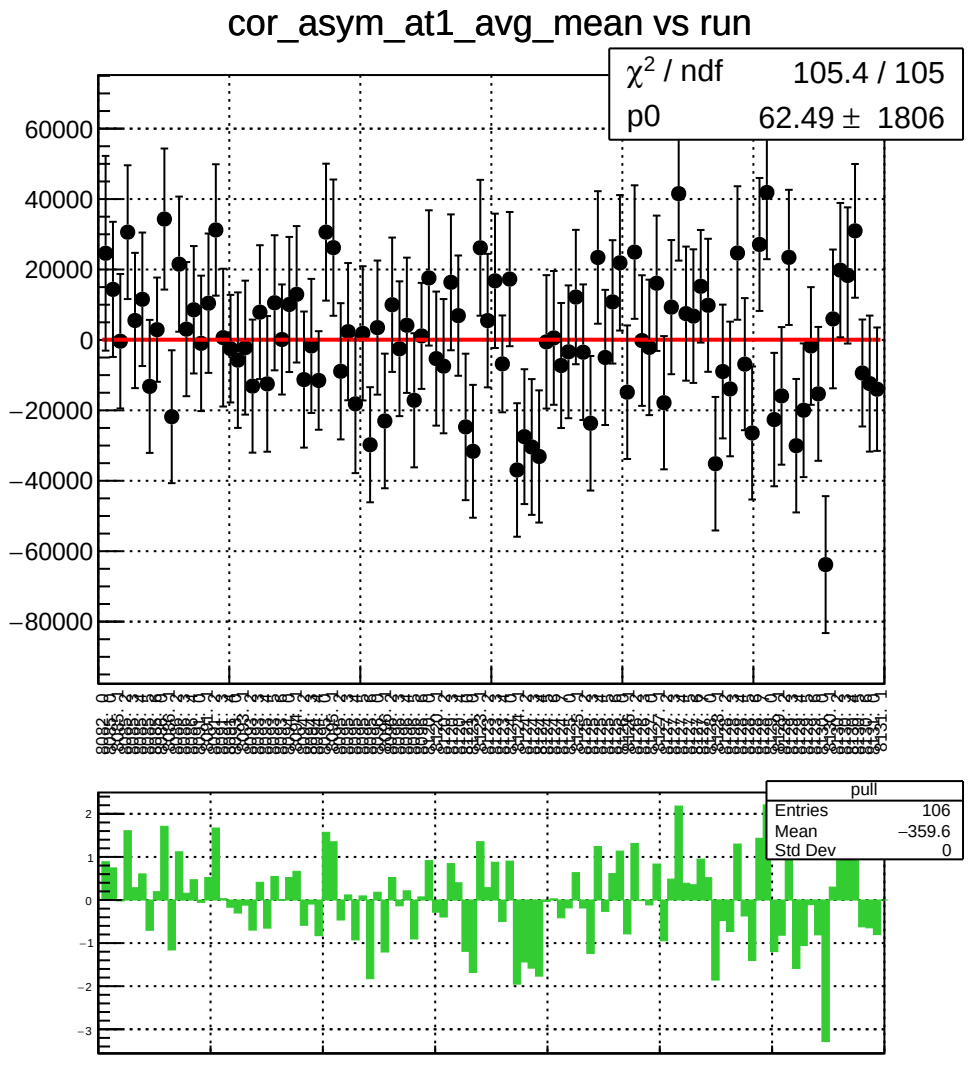

pull1D
Entries 106
Mean 0.009619
Std Dev 0.997
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

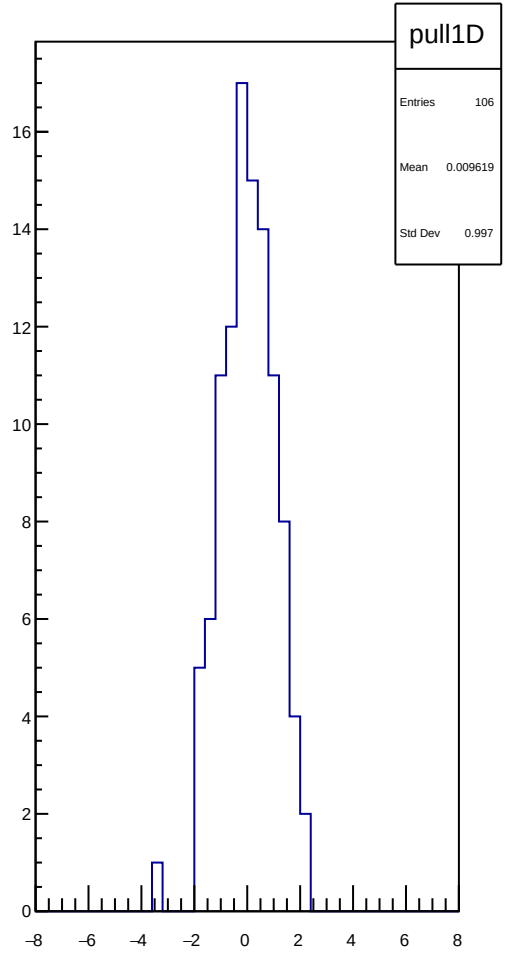

reg_asym_at1_avg_rms vs run
χ² / ndf 330.6 / 105
p0 1816 ± 1.277
1920
1900
1880
1860
1840
1820
1800
1780
1760

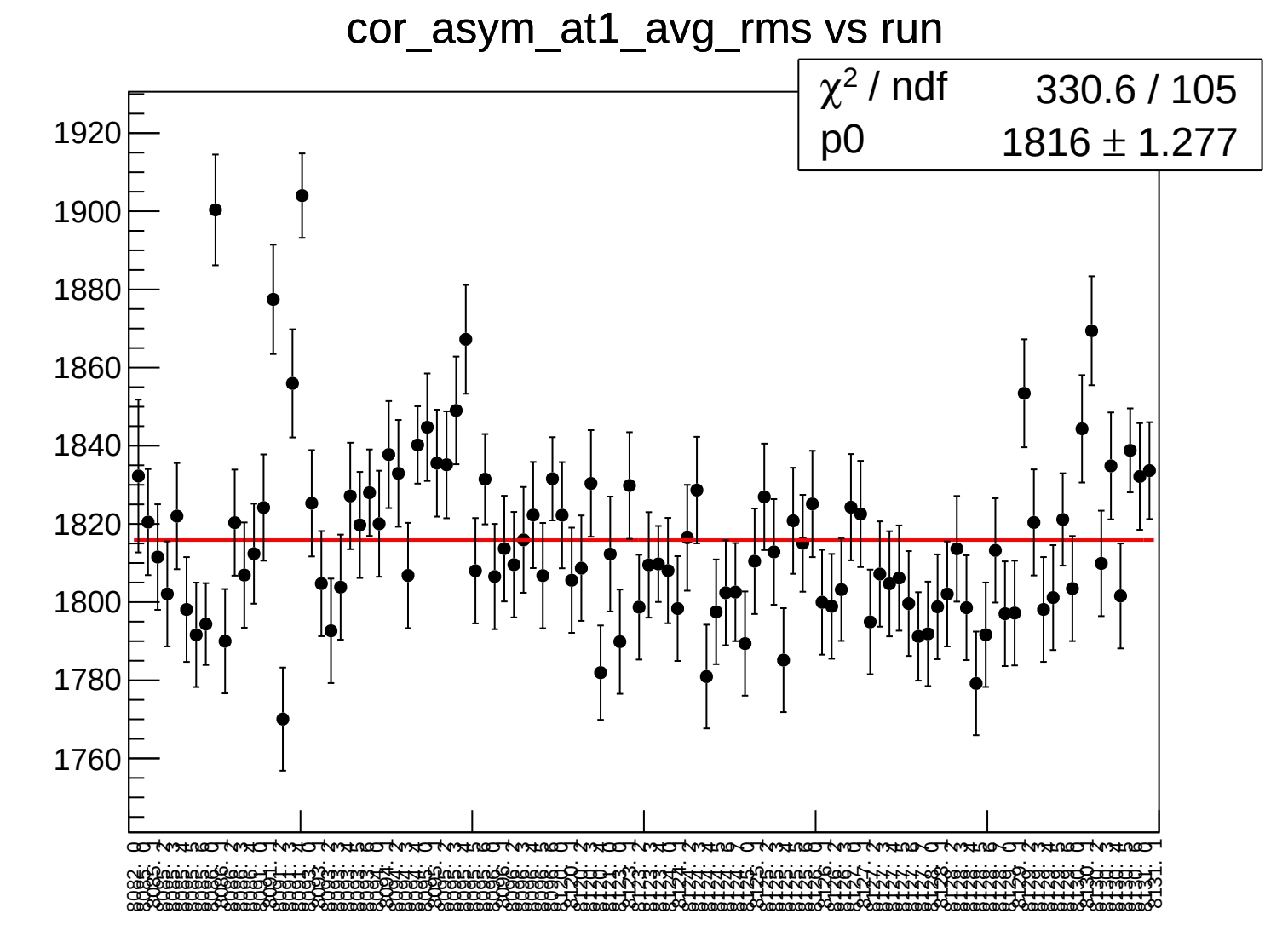

asym_at1_avg_reg_correction_mean vs run
χ² / ndf 77.48 / 105
p0 −310 ± 428
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
pull
Entries 106
Mean 57.25
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

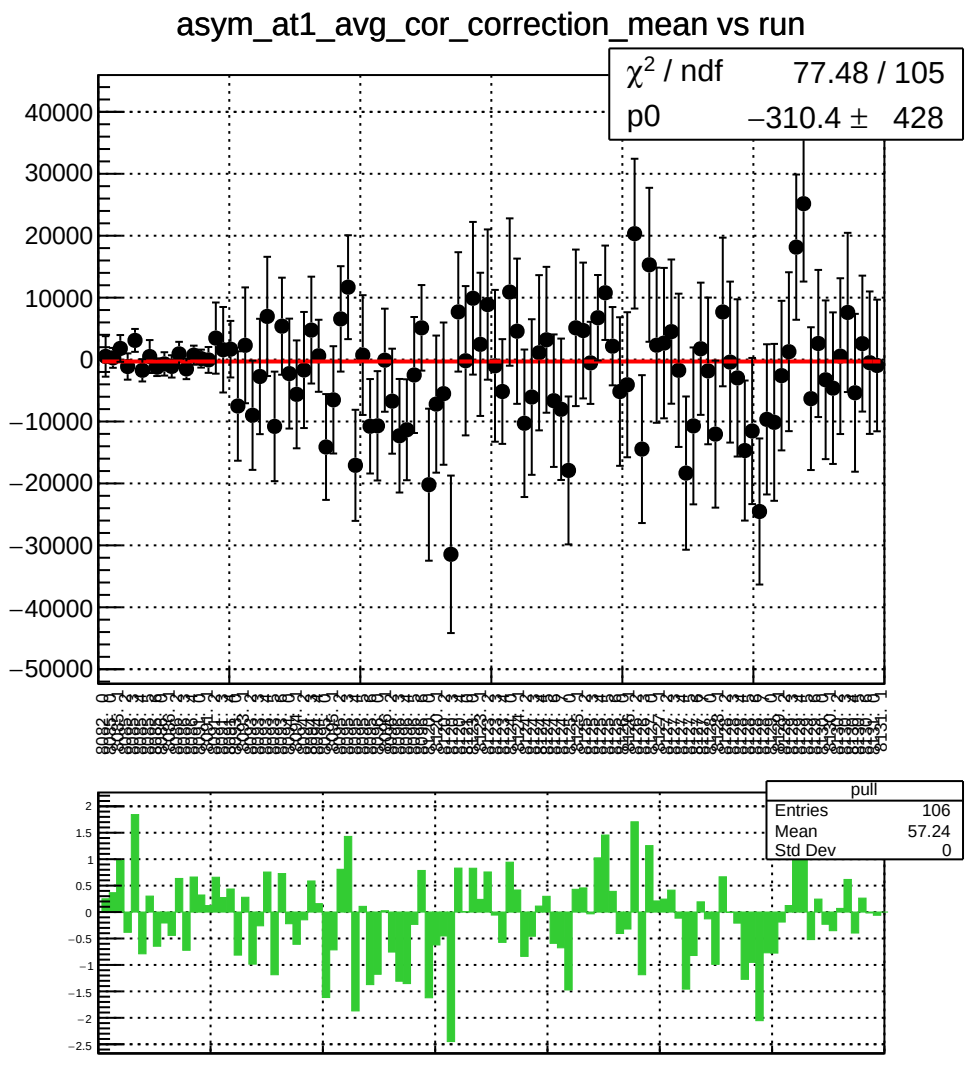

pull1D
Entries 106
Mean −0.09959
Std Dev 0.8491
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

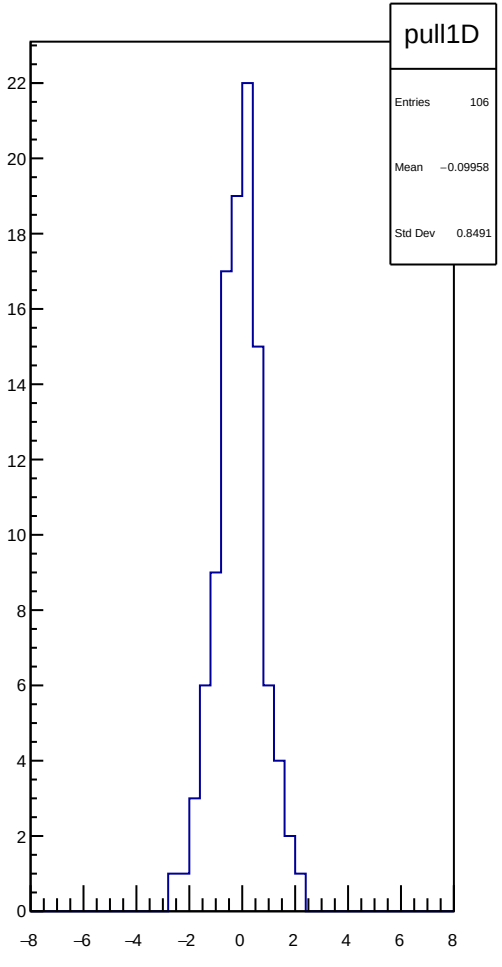

asym_at1_avg_reg_correction_rms vs run
χ² / ndf 9.974e+05 / 105
p0 306.5 ± 0.3026
1400
1200
1000
800
600
400
200

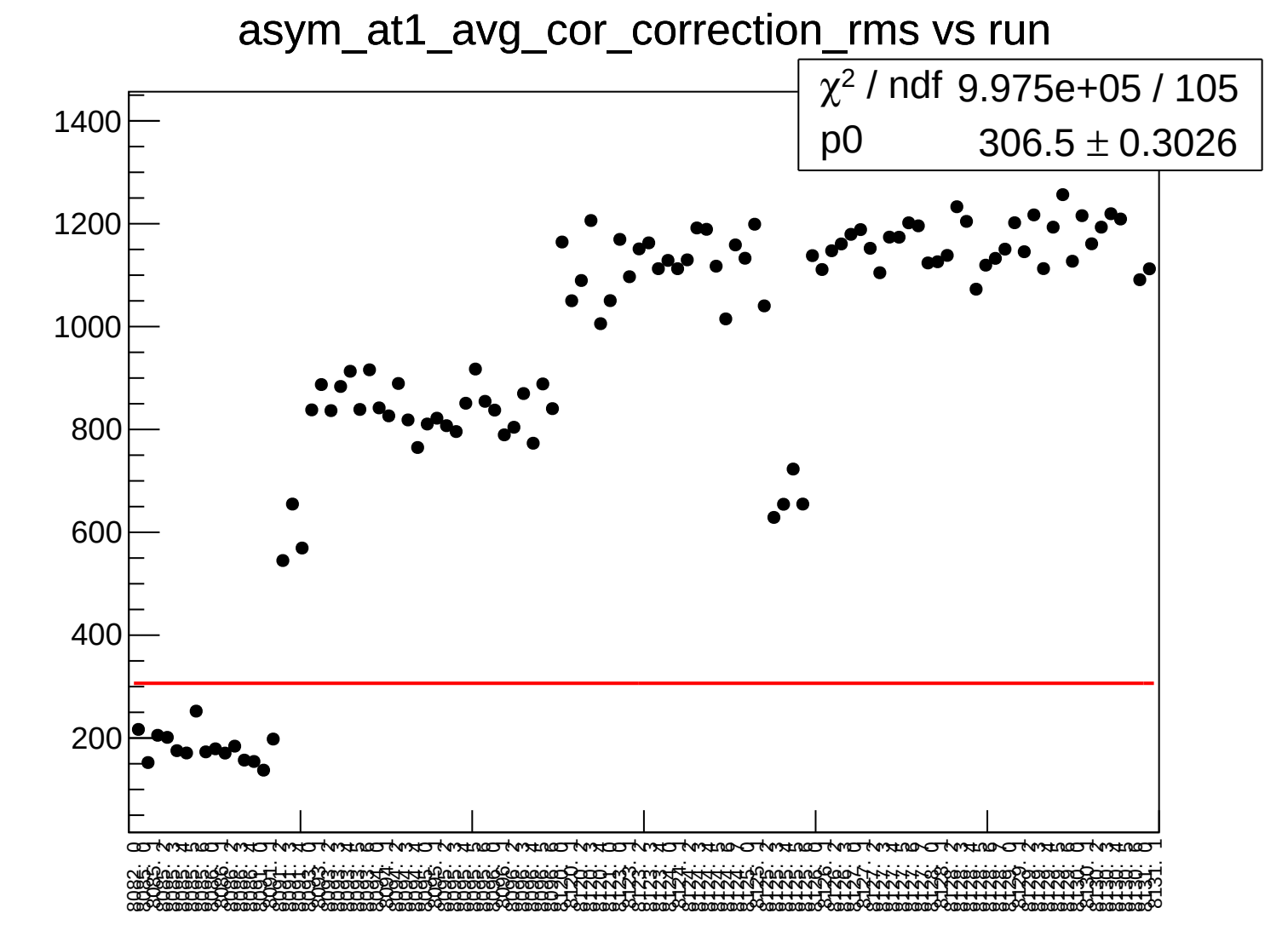

cor_asym_at1_avg_mean vs run
χ² / ndf 105.4 / 105
p0 62.49 ± 1806
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 106
Mean −359.6
Std Dev 0
2
1
0
−1
−2
−3

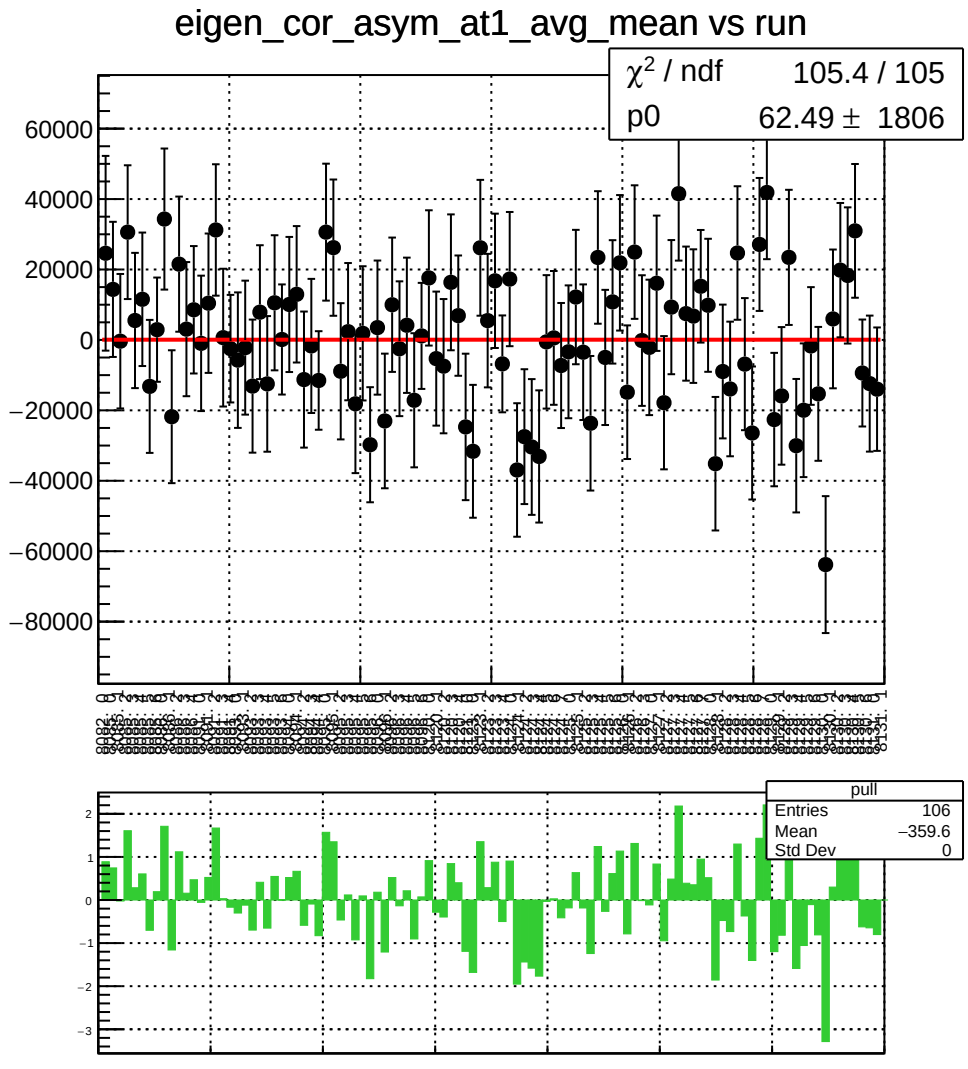

pull1D
Entries 106
Mean 0.009619
Std Dev 0.997
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

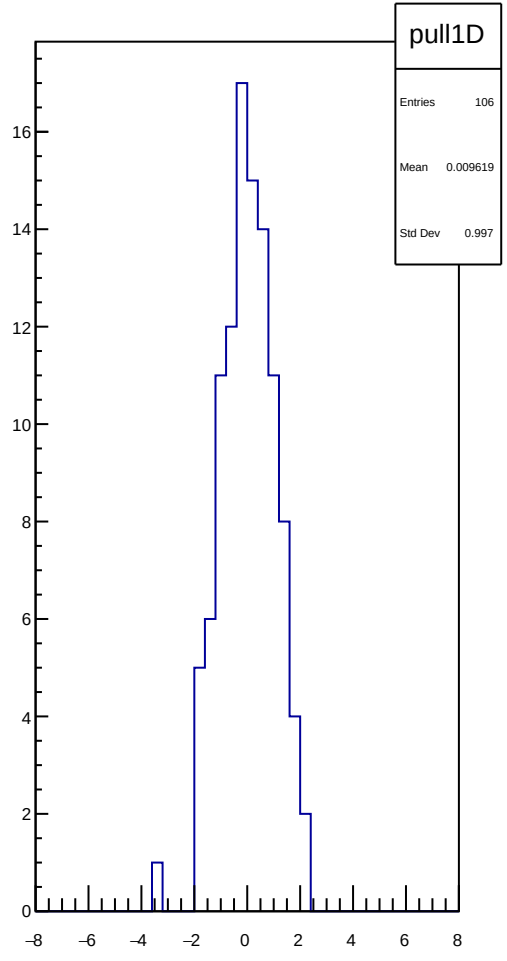

cor_asym_at1_avg_rms vs run
$\chi^2$ / ndf 330.6 / 105
p0 1816 ± 1.277
1920
1900
1880
1860
1840
1820
1800
1780
1760

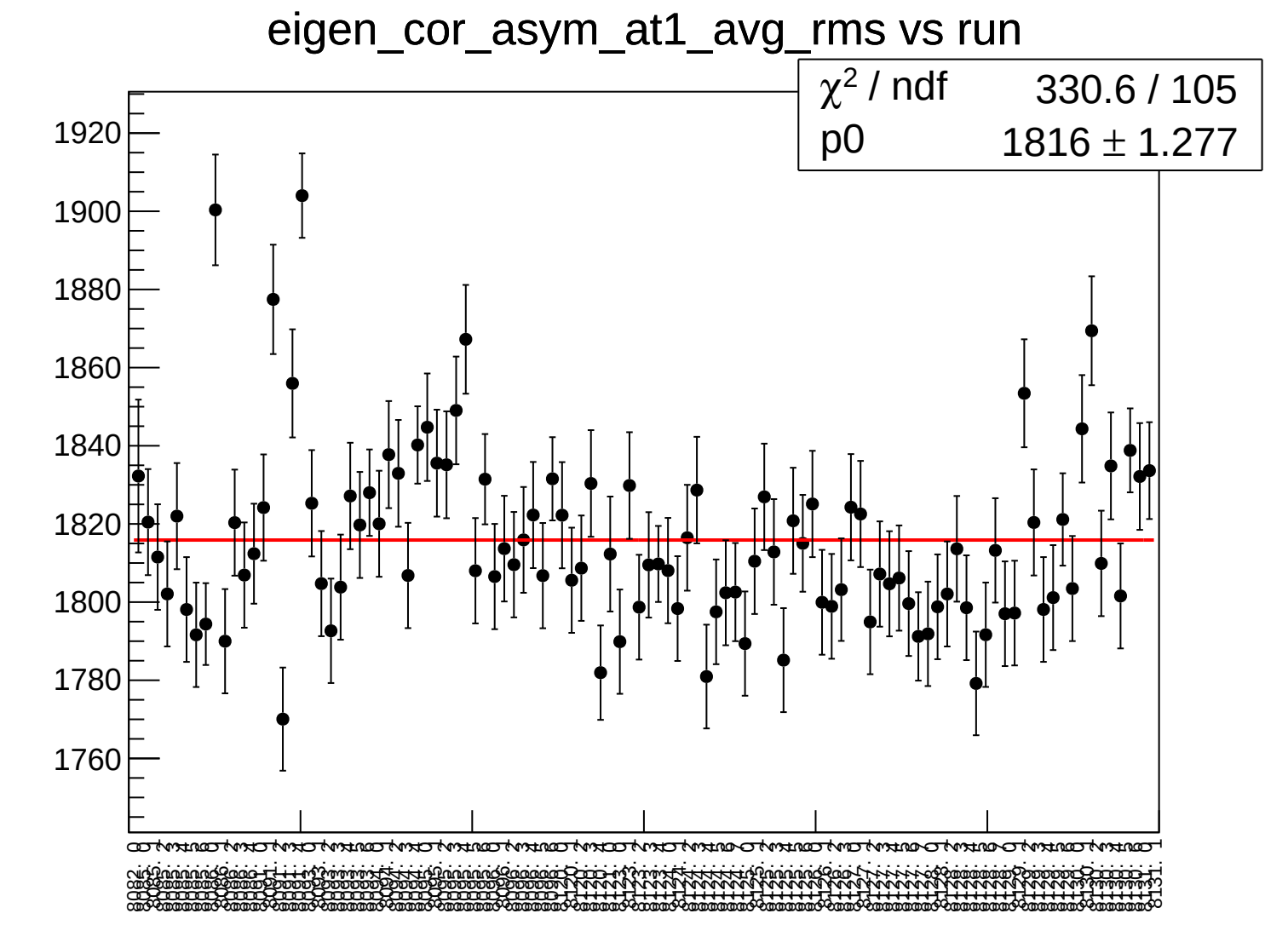

asym_at1_avg_cor_correction_mean vs run
χ² / ndf 77.48 / 105
p0 −310.4 ± 428
pull
Entries 106
Mean 57.24
Std Dev 0

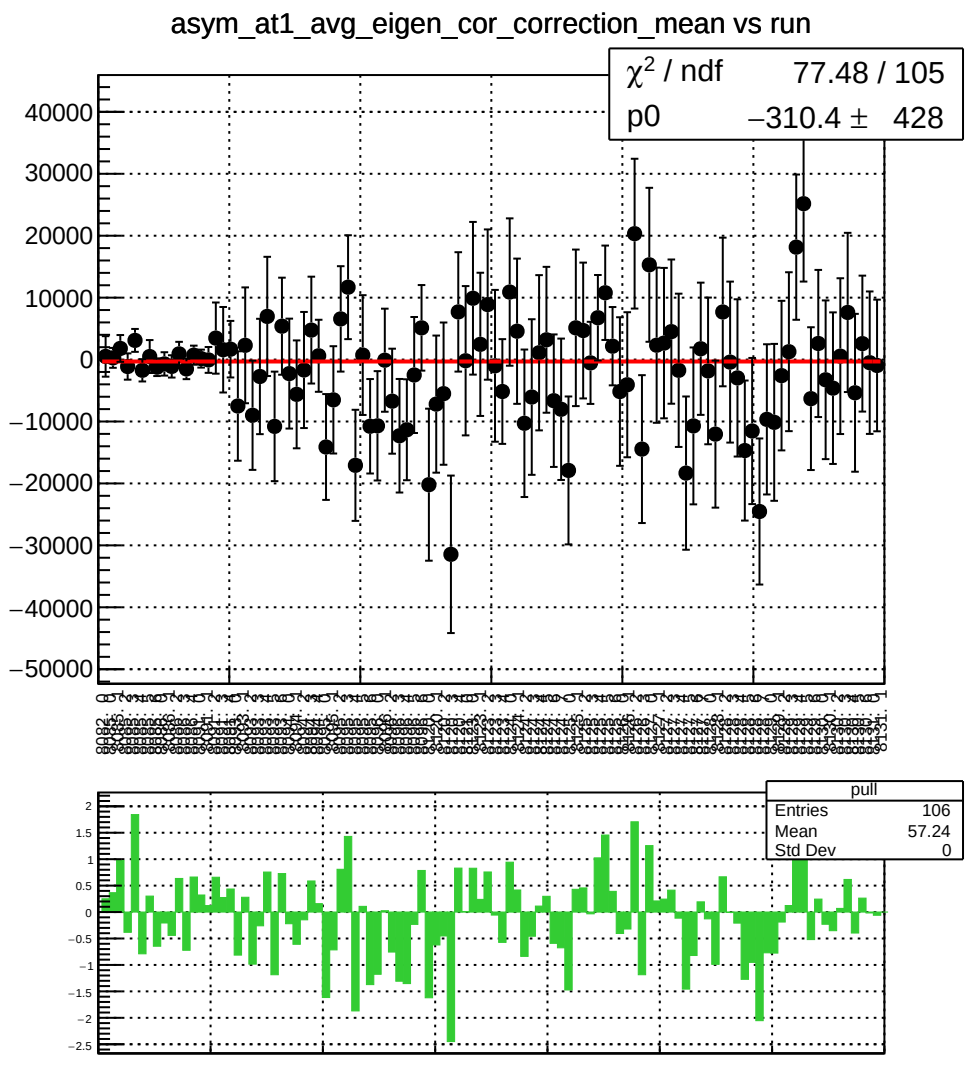

pull1D
Entries 106
Mean −0.09958
Std Dev 0.8491

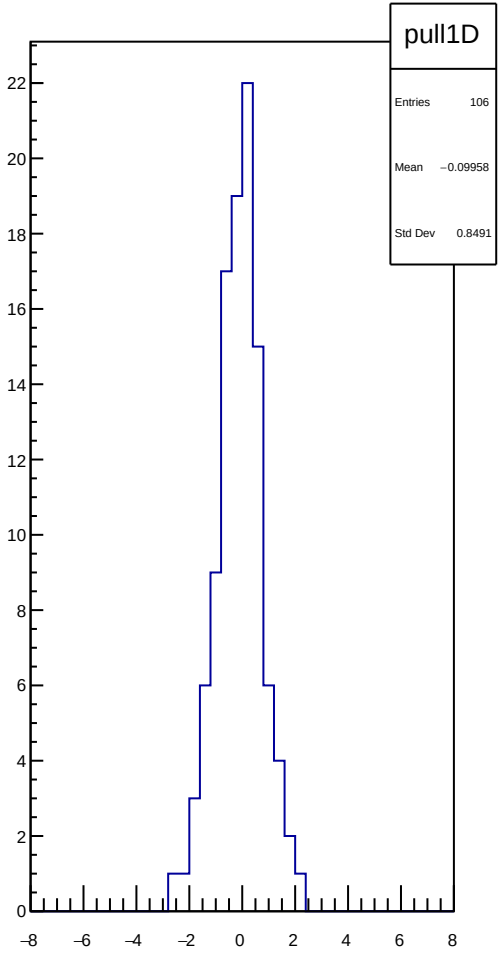

asym_at1_avg_cor_correction_rms vs run
χ² / ndf 9.975e+05 / 105
p0 306.5 ± 0.3026
1400
1200
1000
800
600
400
200

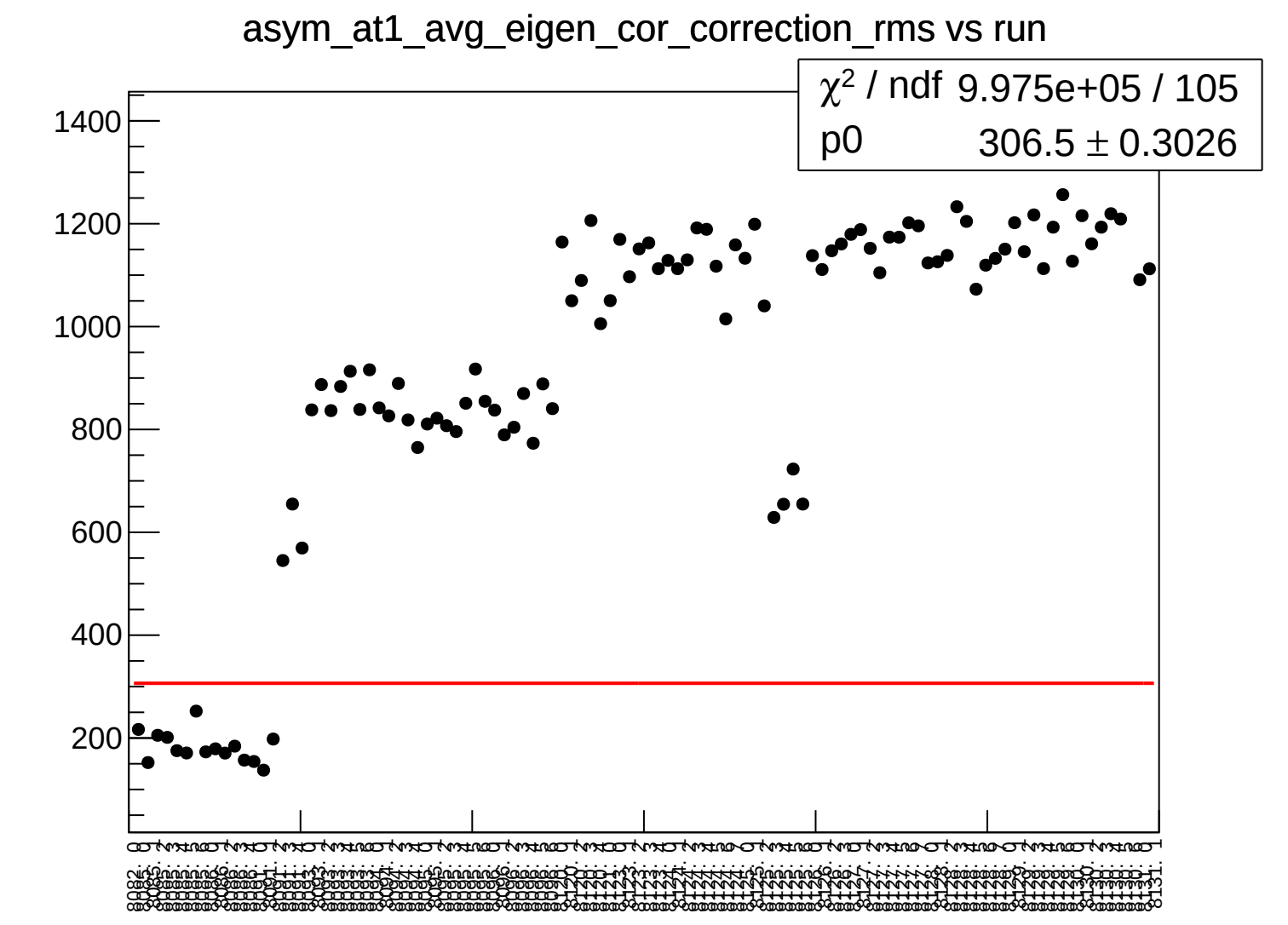

eigen_cor_asym_at1_avg_mean vs run
χ² / ndf 105.4 / 105
p0 62.49 ± 1806
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 106
Mean −359.6
Std Dev 0
2
1
0
−1
−2
−3

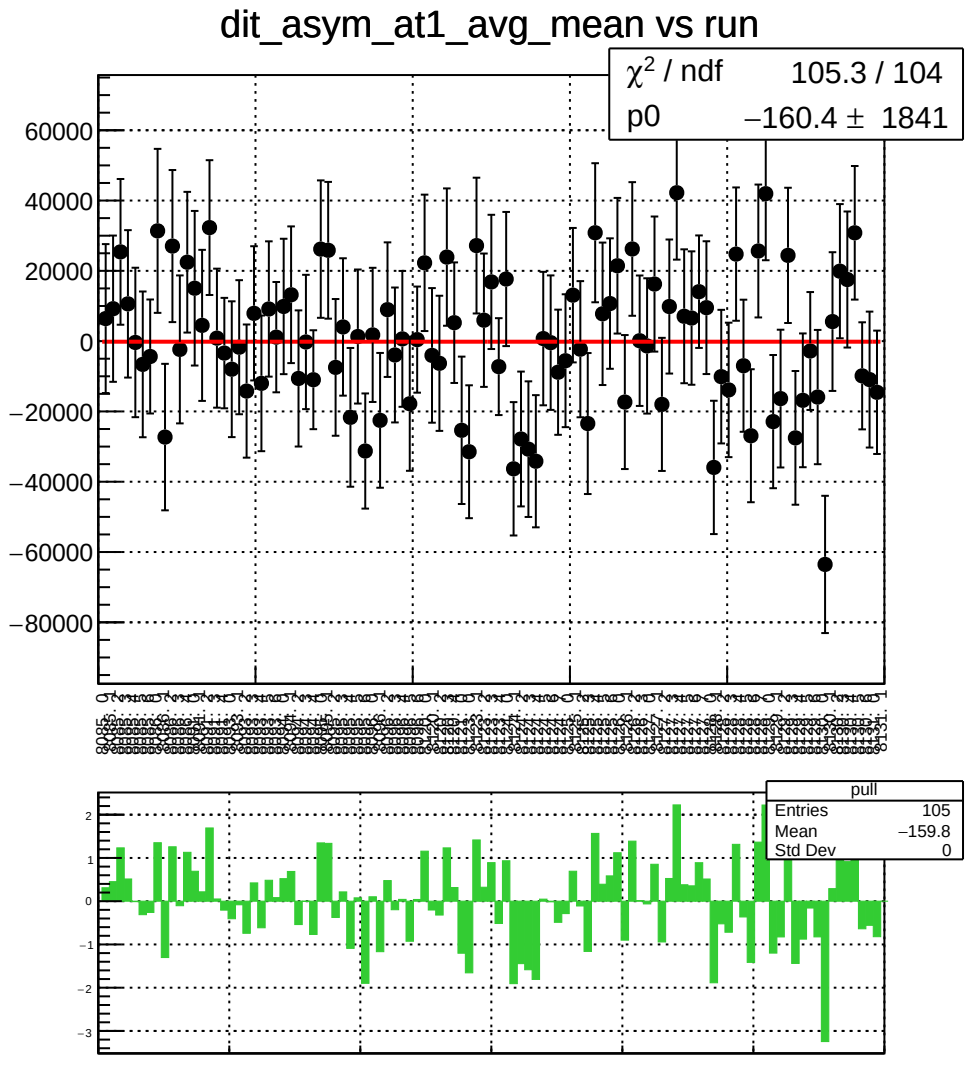

pull1D
Entries 106
Mean 0.009619
Std Dev 0.997
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

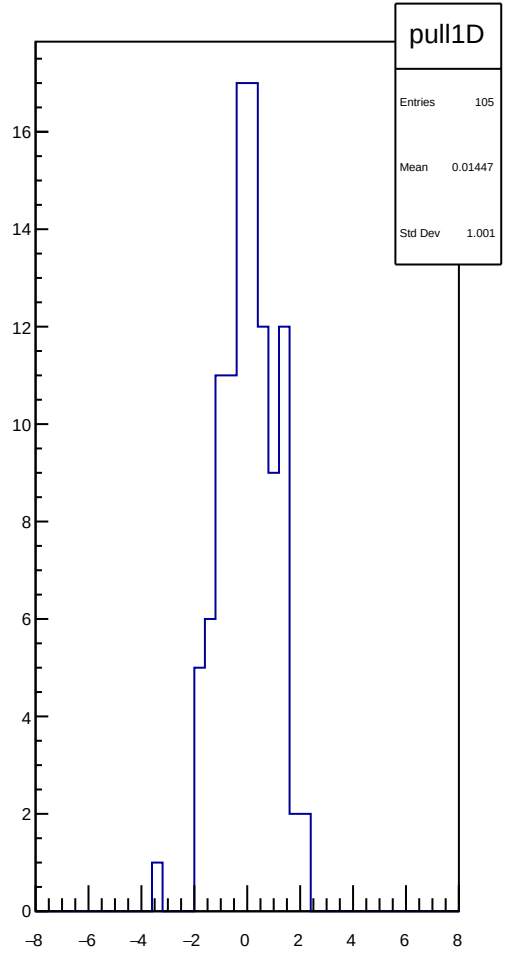

eigen_cor_asym_at1_avg_rms vs run
χ² / ndf 330.6 / 105
p0 1816 ± 1.277
1920
1900
1880
1860
1840
1820
1800
1780
1760

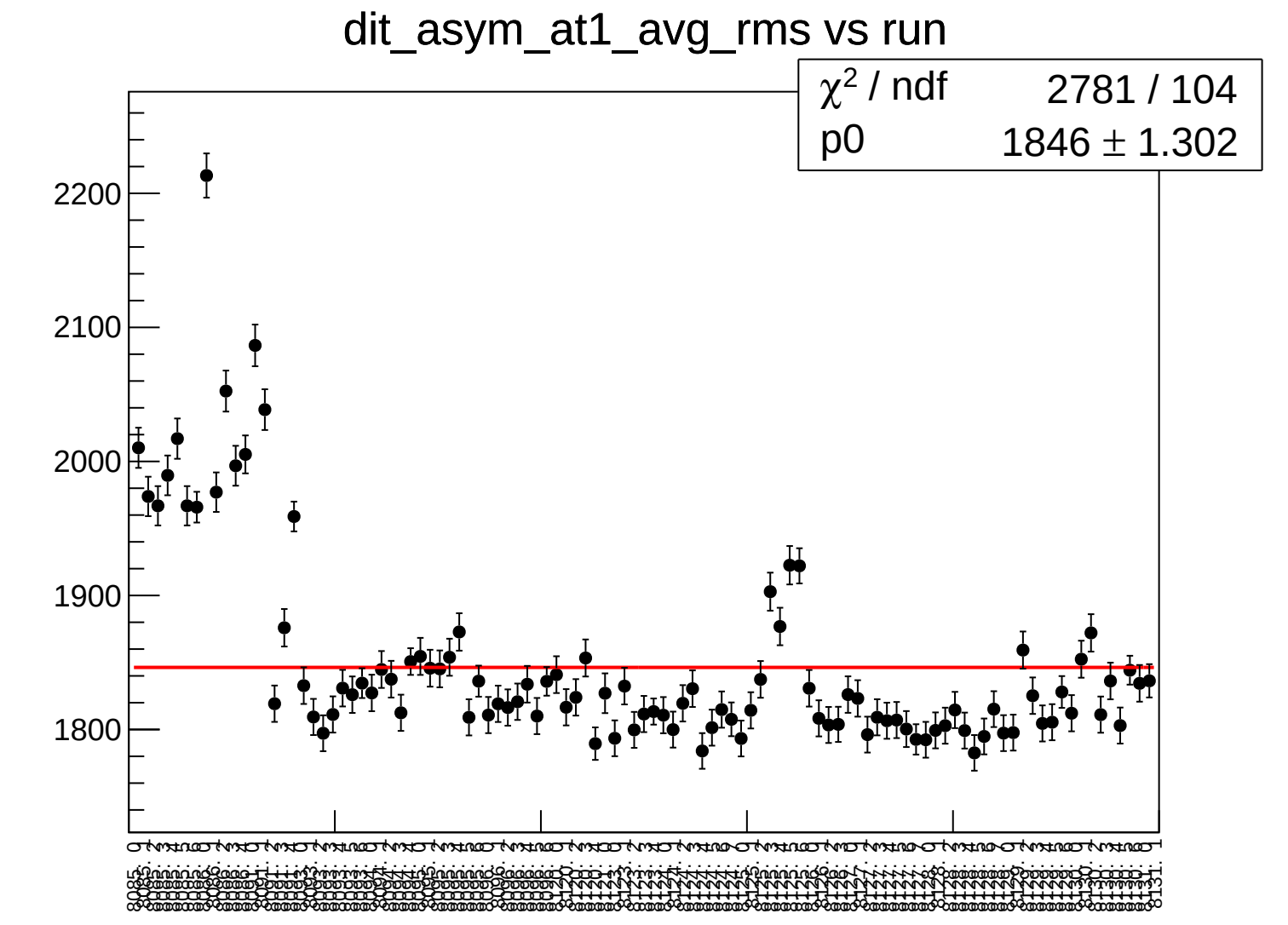

asym_at1_avg_eigen_cor_correction_mean vs run
χ² / ndf 77.48 / 105
p0 −310.4 ± 428
pull
Entries 106
Mean 57.24
Std Dev 0

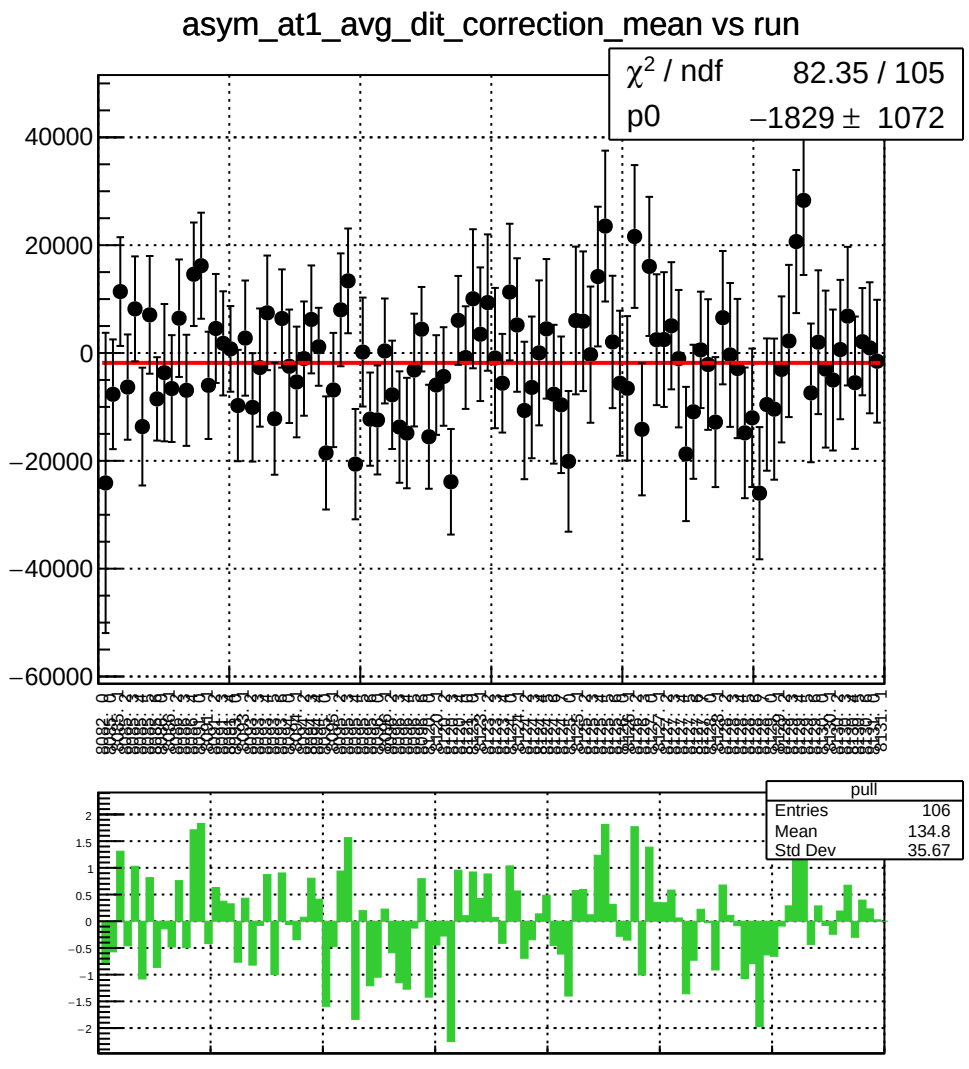

pull1D
Entries 106
Mean −0.09958
Std Dev 0.8491

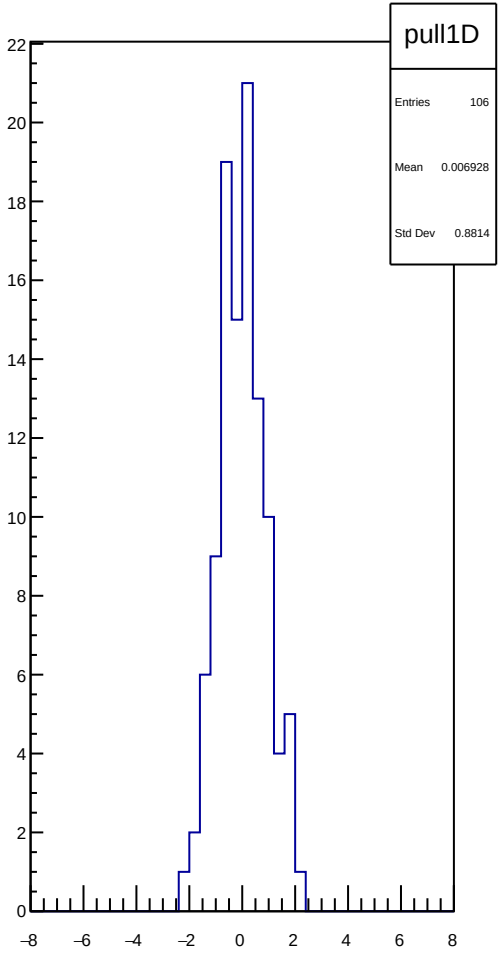

asym_at1_avg_eigen_cor_correction_rms vs run
$\chi^2$ / ndf 9.975e+05 / 105
p0 306.5 ± 0.3026
1400
1200
1000
800
600
400
200

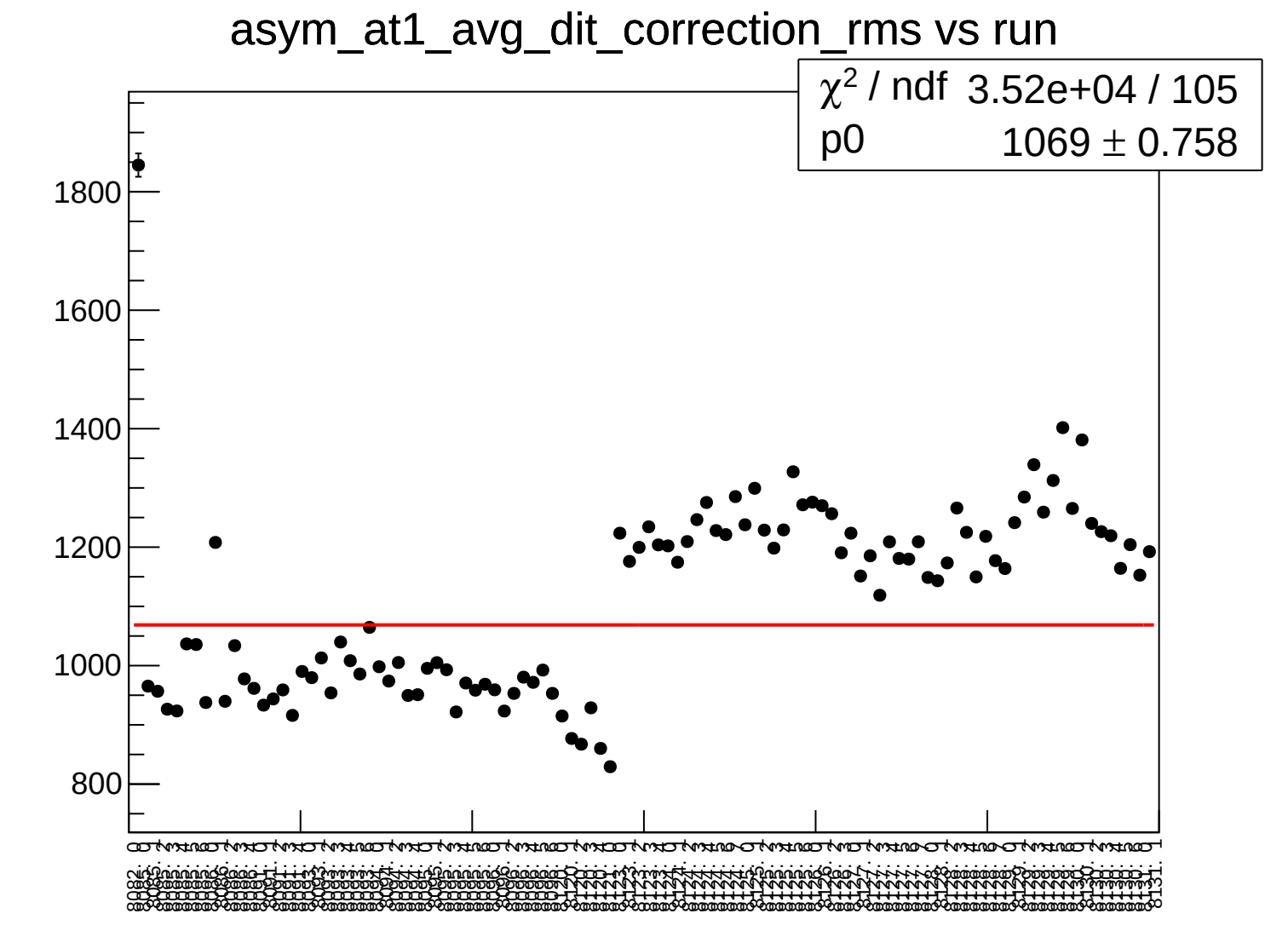

dit_asym_at1_avg_mean vs run
χ² / ndf 105.3 / 104
p0 −160.4 ± 1841
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 105
Mean −159.8
Std Dev 0
2
1
0
−1
−2
−3

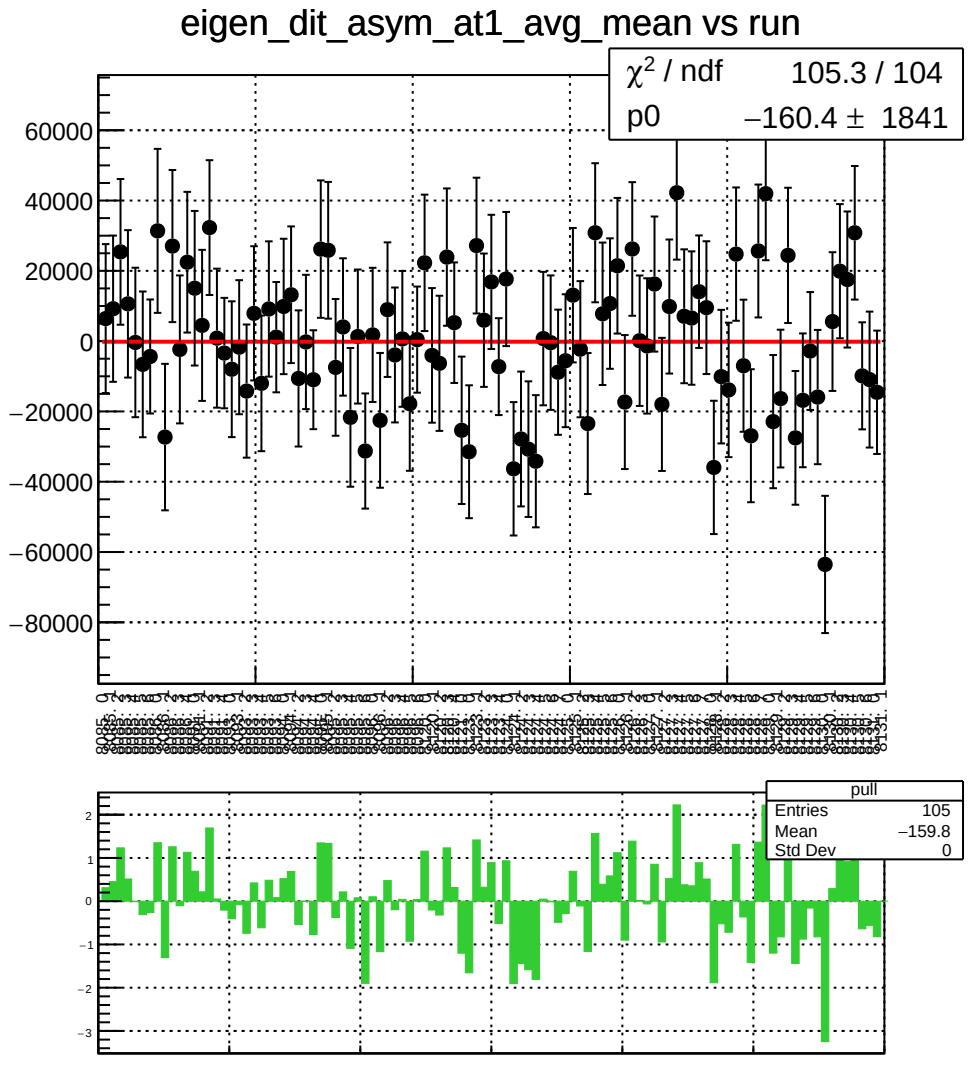

pull1D
Entries 105
Mean 0.01447
Std Dev 1.001
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

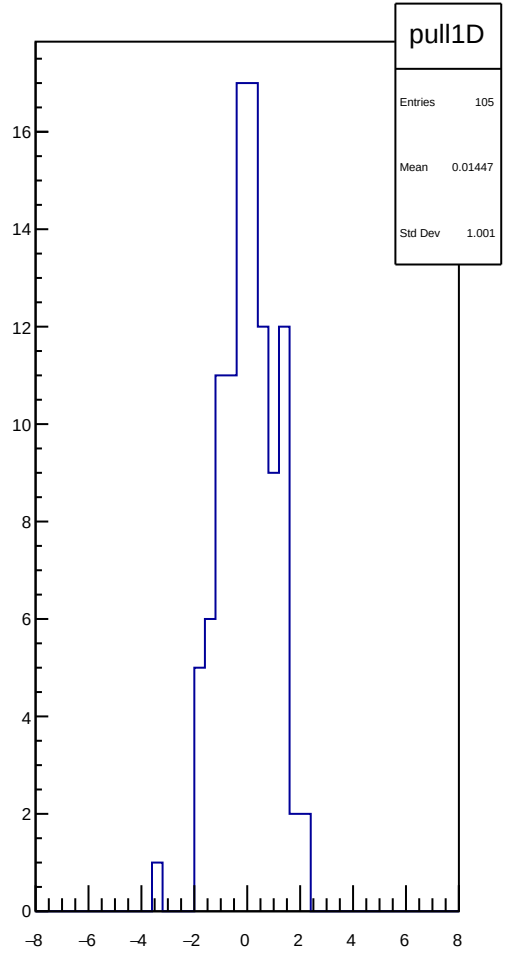

dit_asym_at1_avg_rms vs run
χ² / ndf 2781 / 104
p0 1846 ± 1.302
2200
2100
2000
1900
1800

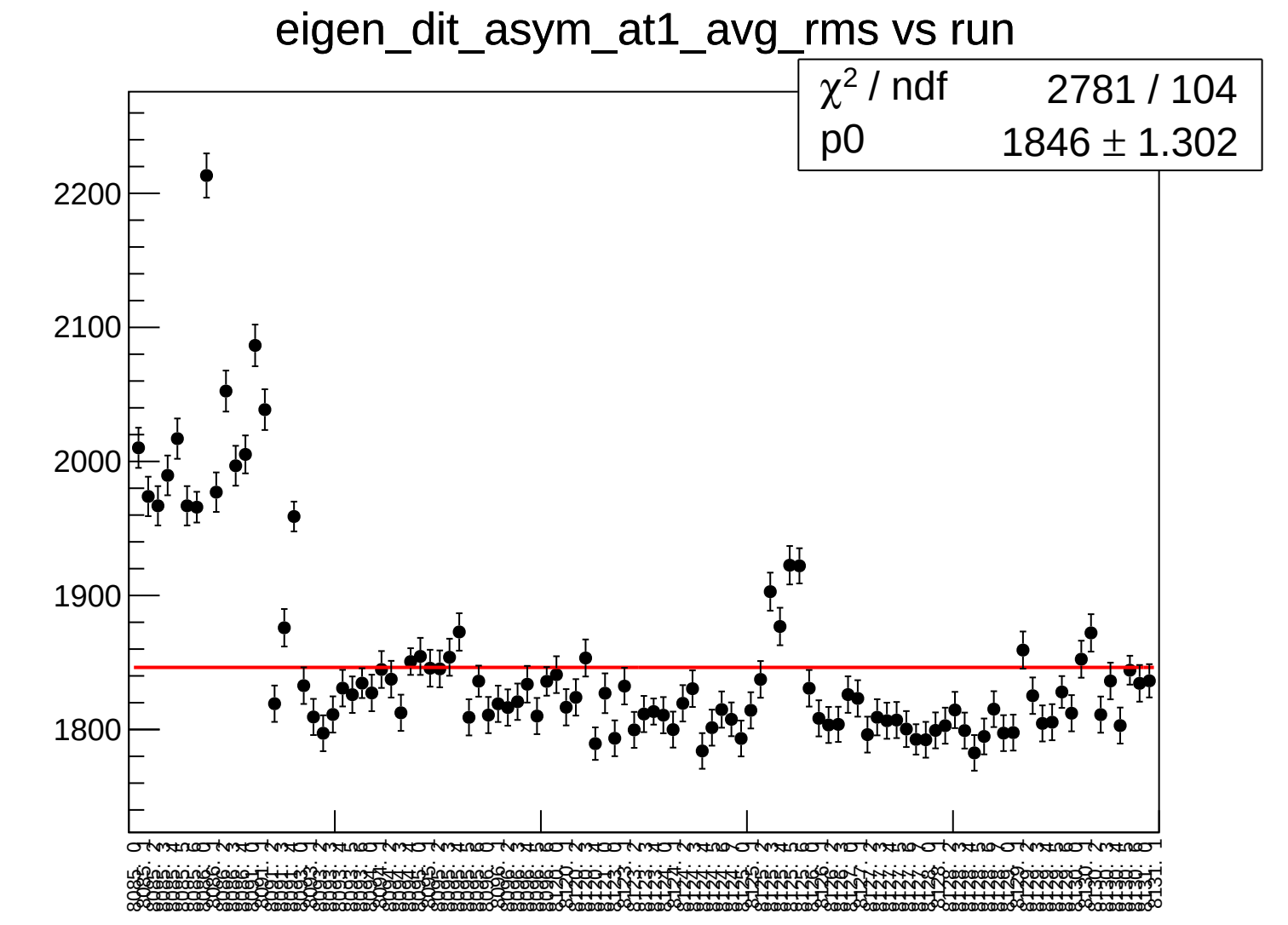

asym_at1_avg_dit_correction_mean vs run
χ² / ndf 82.35 / 105
p0 −1829 ± 1072
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean 134.8
Std Dev 35.67
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

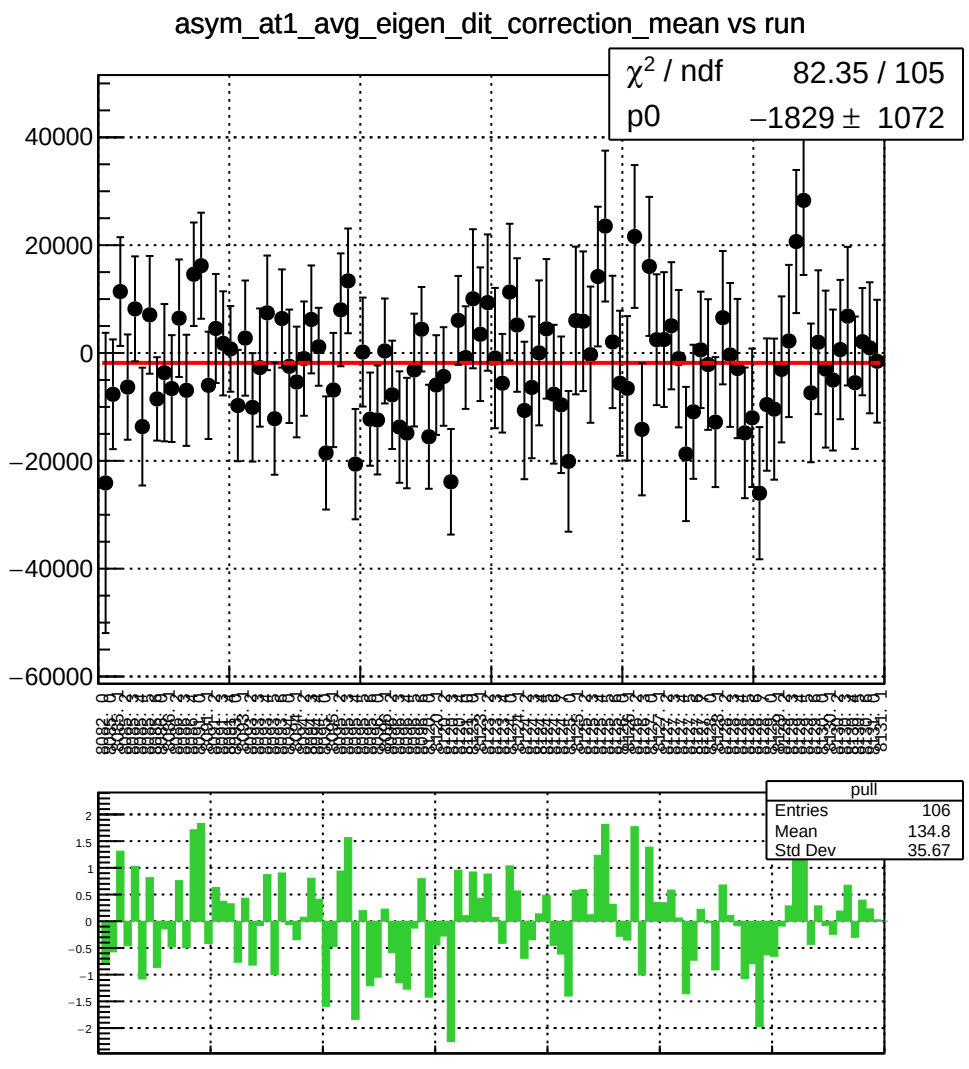

pull1D
Entries 106
Mean 0.006928
Std Dev 0.8814
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

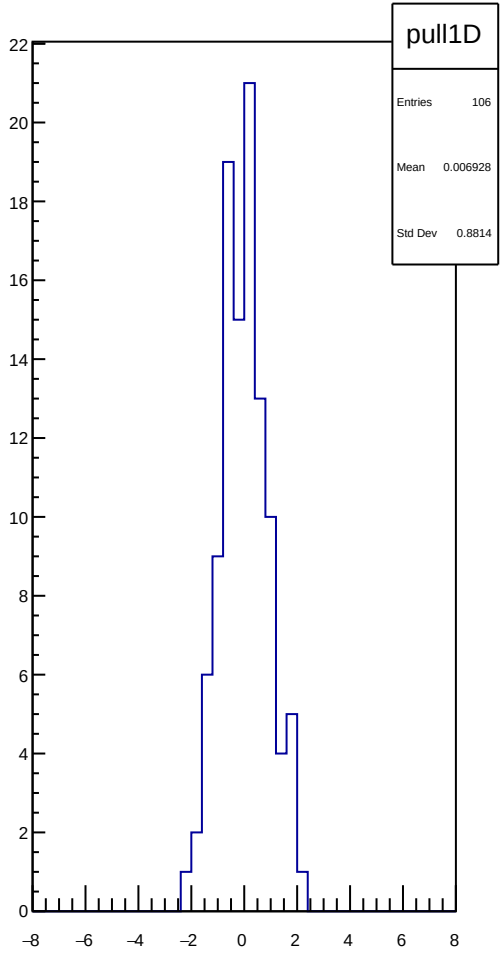

asym_at1_avg_dit_correction_rms vs run
χ² / ndf 3.52e+04 / 105
p0 1069 ± 0.758
1800
1600
1400
1200
1000
800

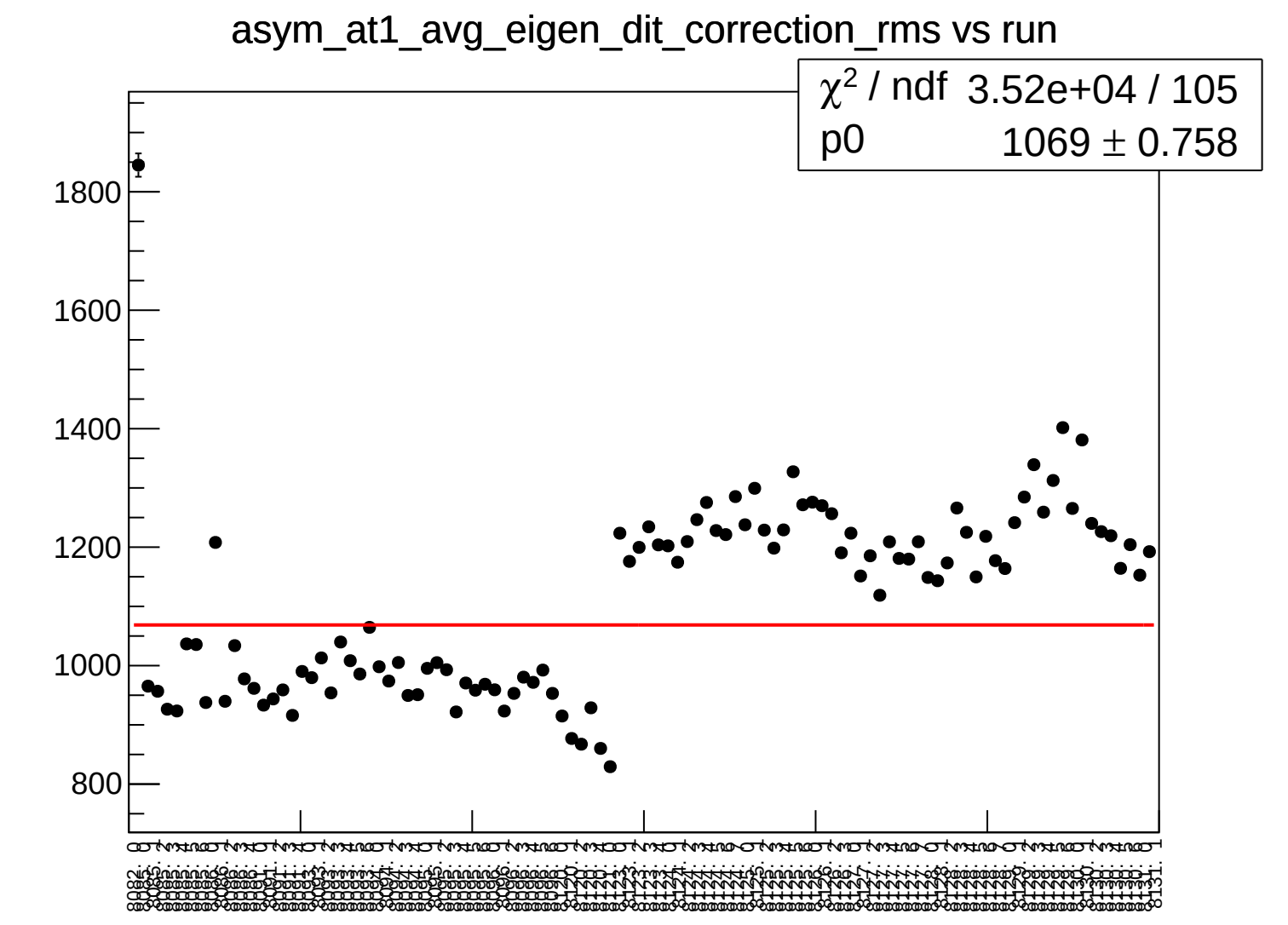

eigen_dit_asym_at1_avg_mean vs run
χ² / ndf 105.3 / 104
p0 −160.4 ± 1841
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 105
Mean −159.8
Std Dev 0
2
1
0
−1
−2
−3

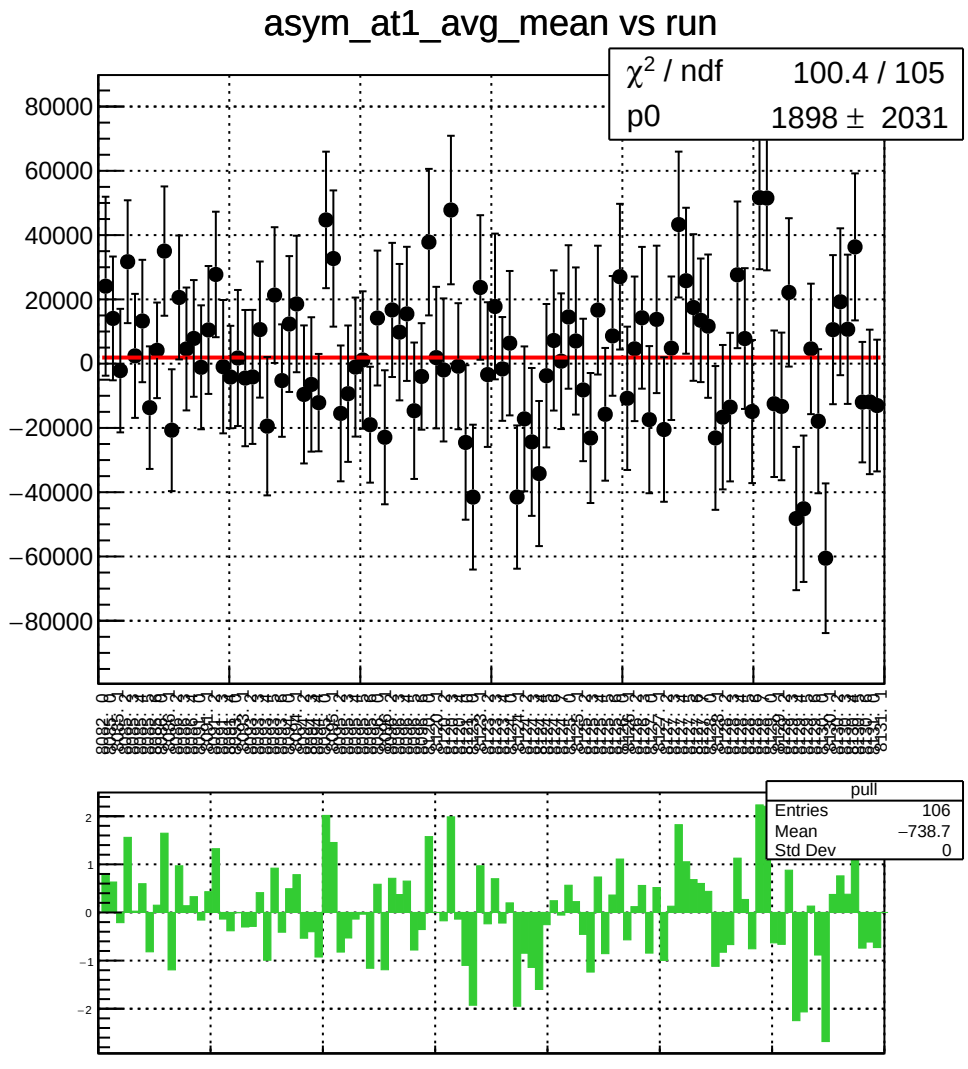

pull1D
Entries 105
Mean 0.01447
Std Dev 1.001
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

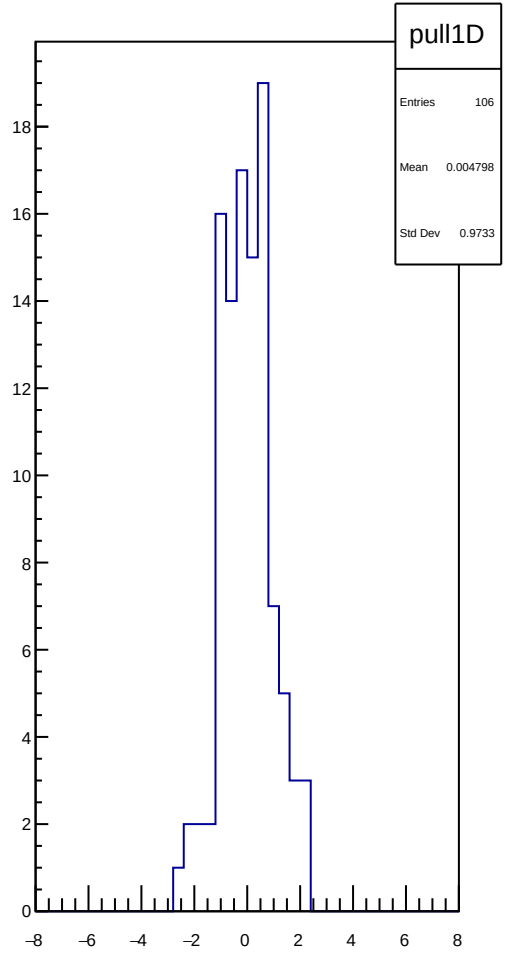

eigen_dit_asym_at1_avg_rms vs run
$\chi^2$ / ndf 2781 / 104
p0 1846 ± 1.302
2200
2100
2000
1900
1800

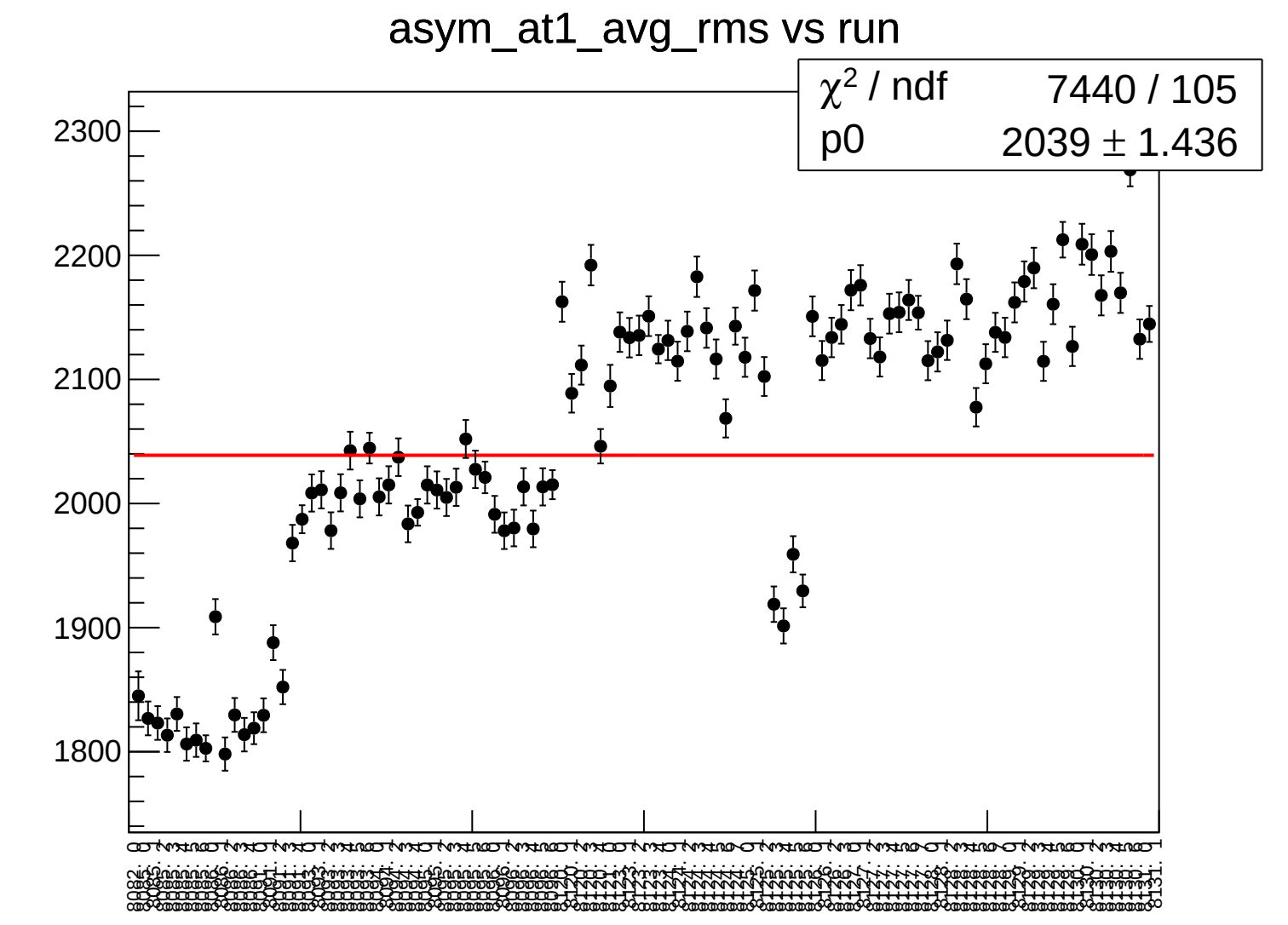

asym_at1_avg_eigen_dit_correction_mean vs run
χ² / ndf 82.35 / 105
p0 −1829 ± 1072
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean 134.8
Std Dev 35.67
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

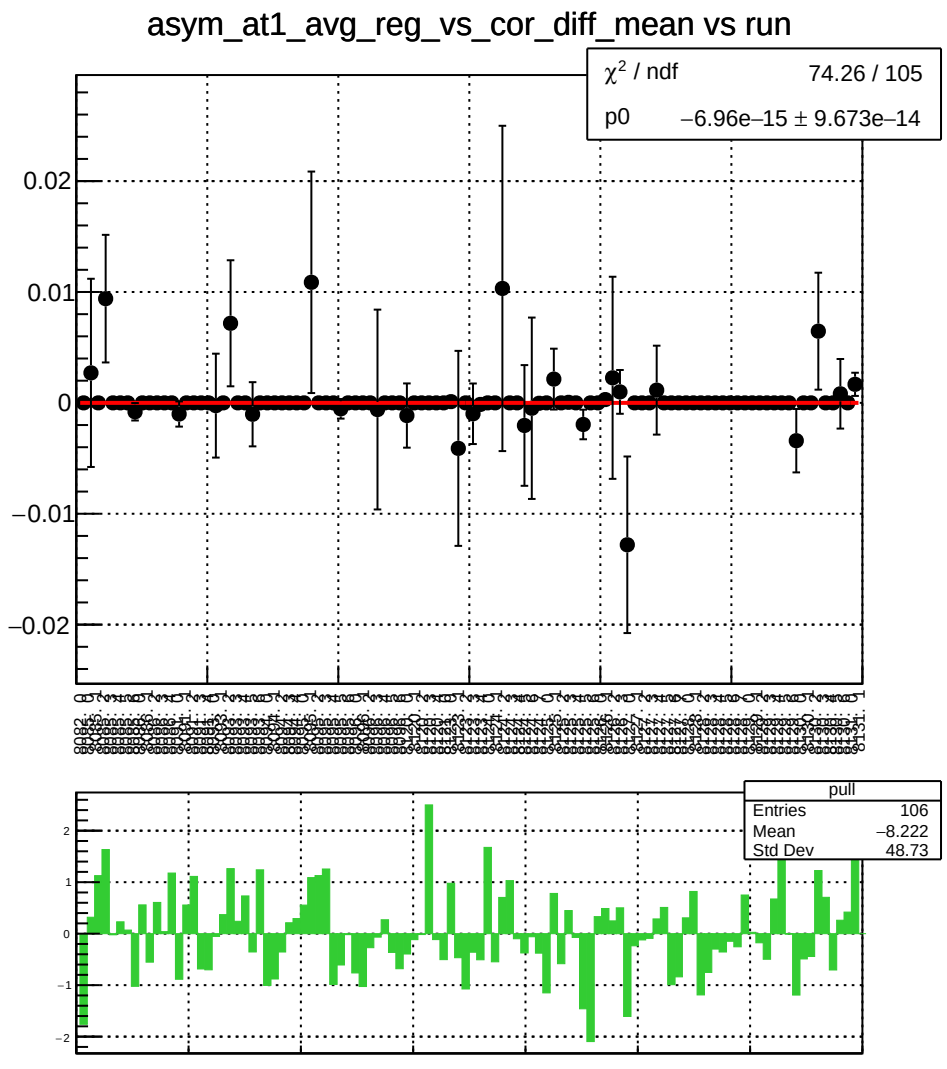

pull1D
Entries 106
Mean 0.006928
Std Dev 0.8814
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

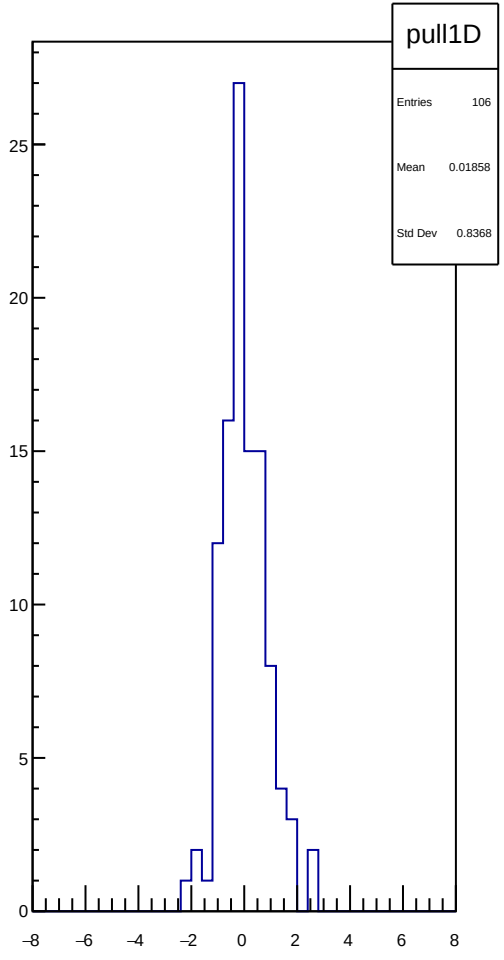

asym_at1_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.52e+04 / 105
p0 1069 ± 0.758
1800
1600
1400
1200
1000
800

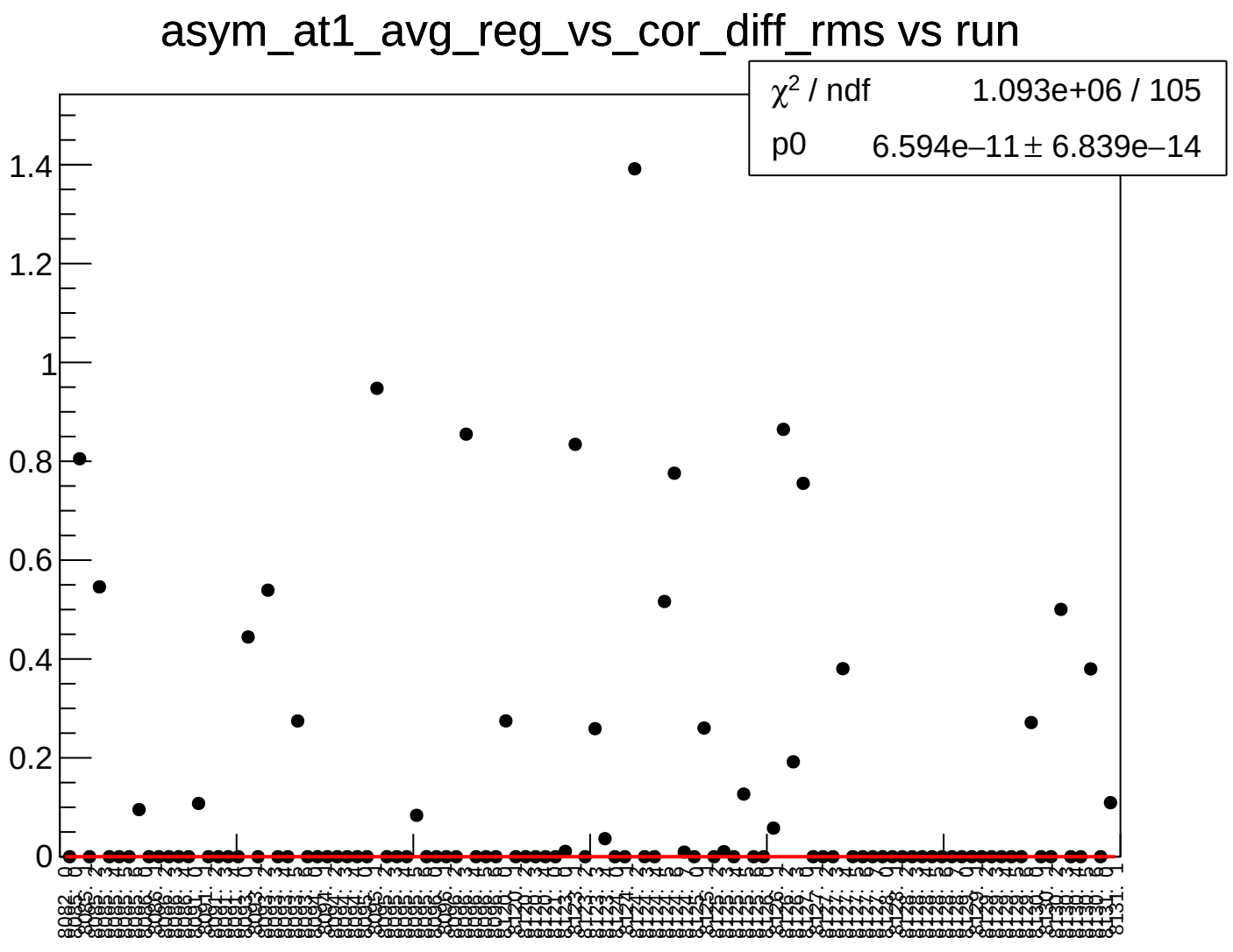

asym_at1_avg_mean vs run
χ² / ndf 100.4 / 105
p0 1898 ± 2031
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 106
Mean −738.7
Std Dev 0
2
1
0
−1
−2

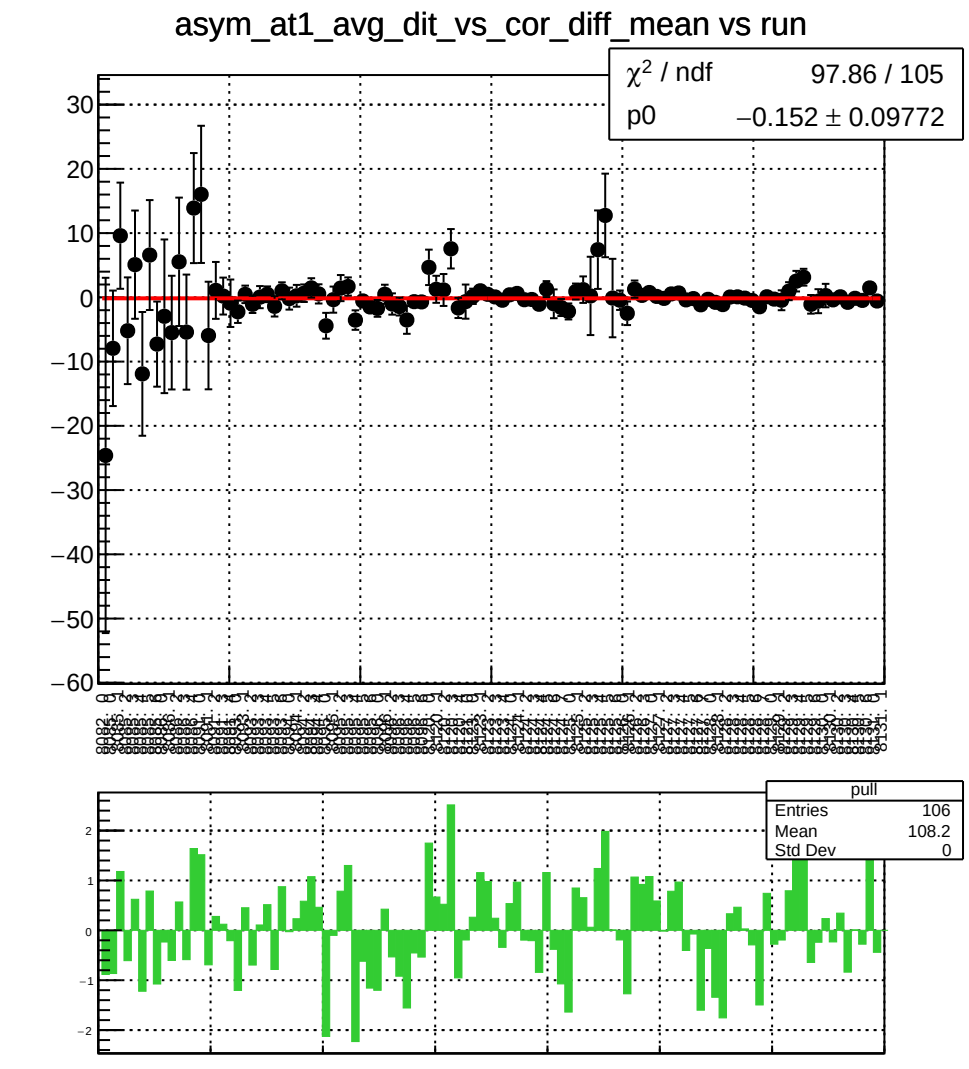

pull1D
Entries 106
Mean 0.004798
Std Dev 0.9733
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

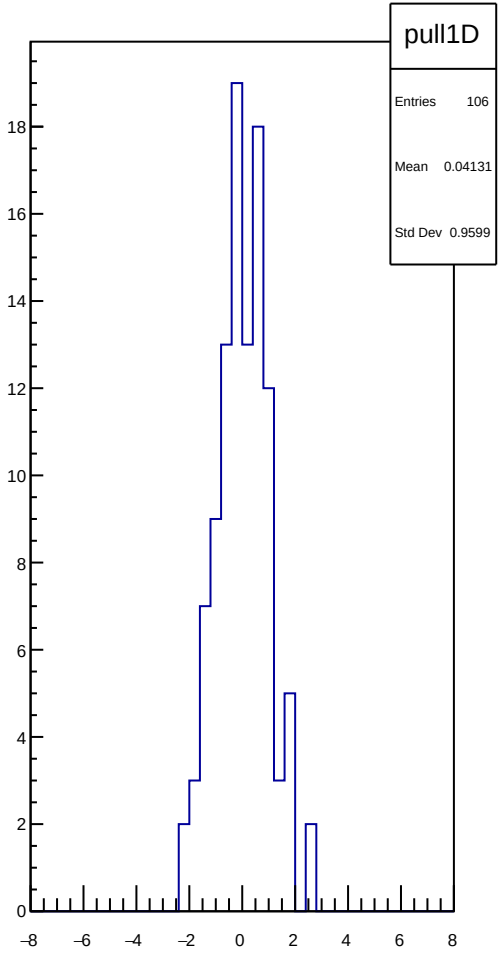

asym_at1_avg_rms vs run
χ² / ndf 7440 / 105
p0 2039 ± 1.436
2300
2200
2100
2000
1900
1800

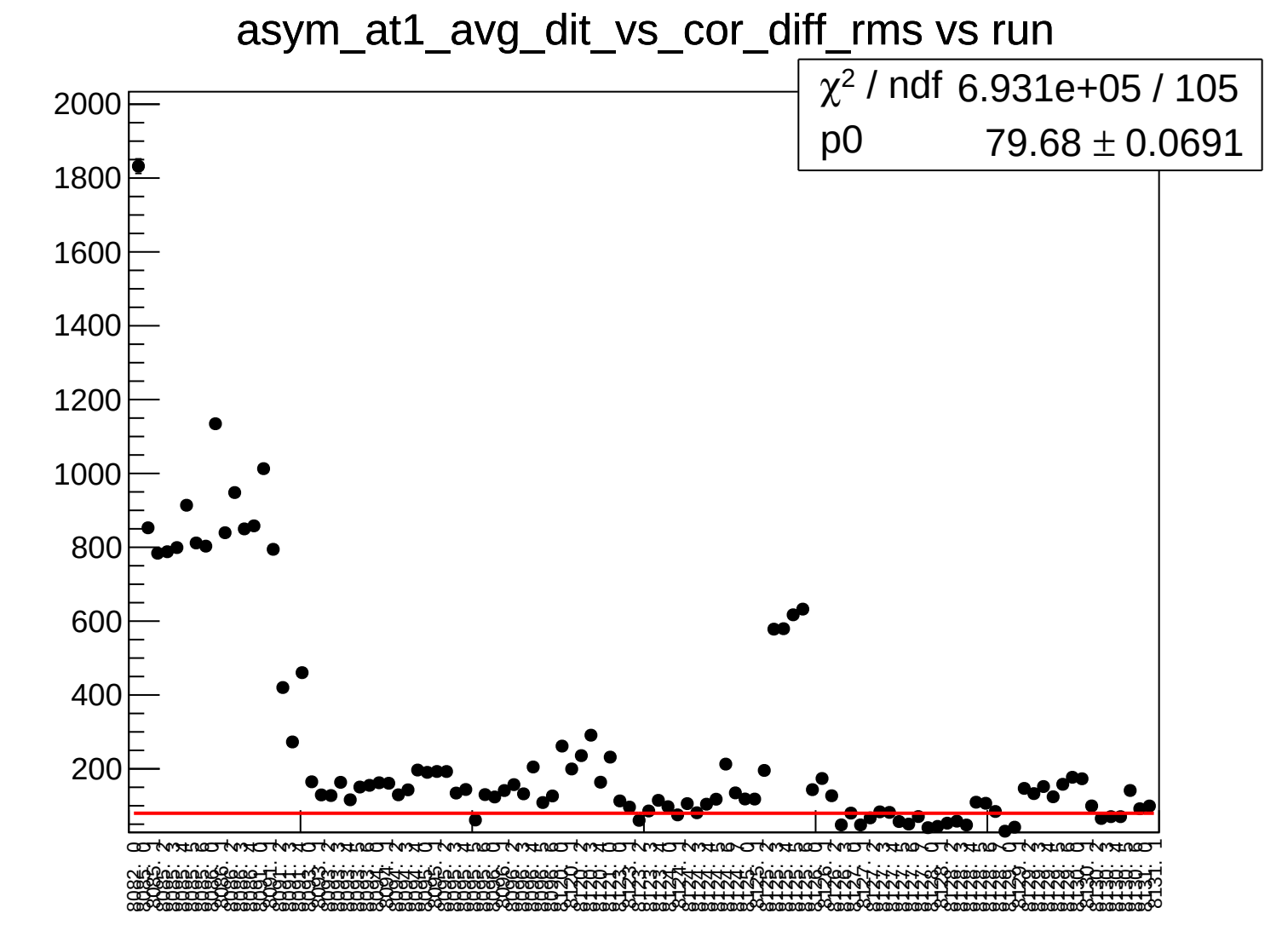

asym_at1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 74.26 / 105
p0 −6.96e−15 ± 9.673e−14
0.02
0.01
0
−0.01
−0.02
pull
Entries 106
Mean −8.222
Std Dev 48.73
2
1
0
−1
−2

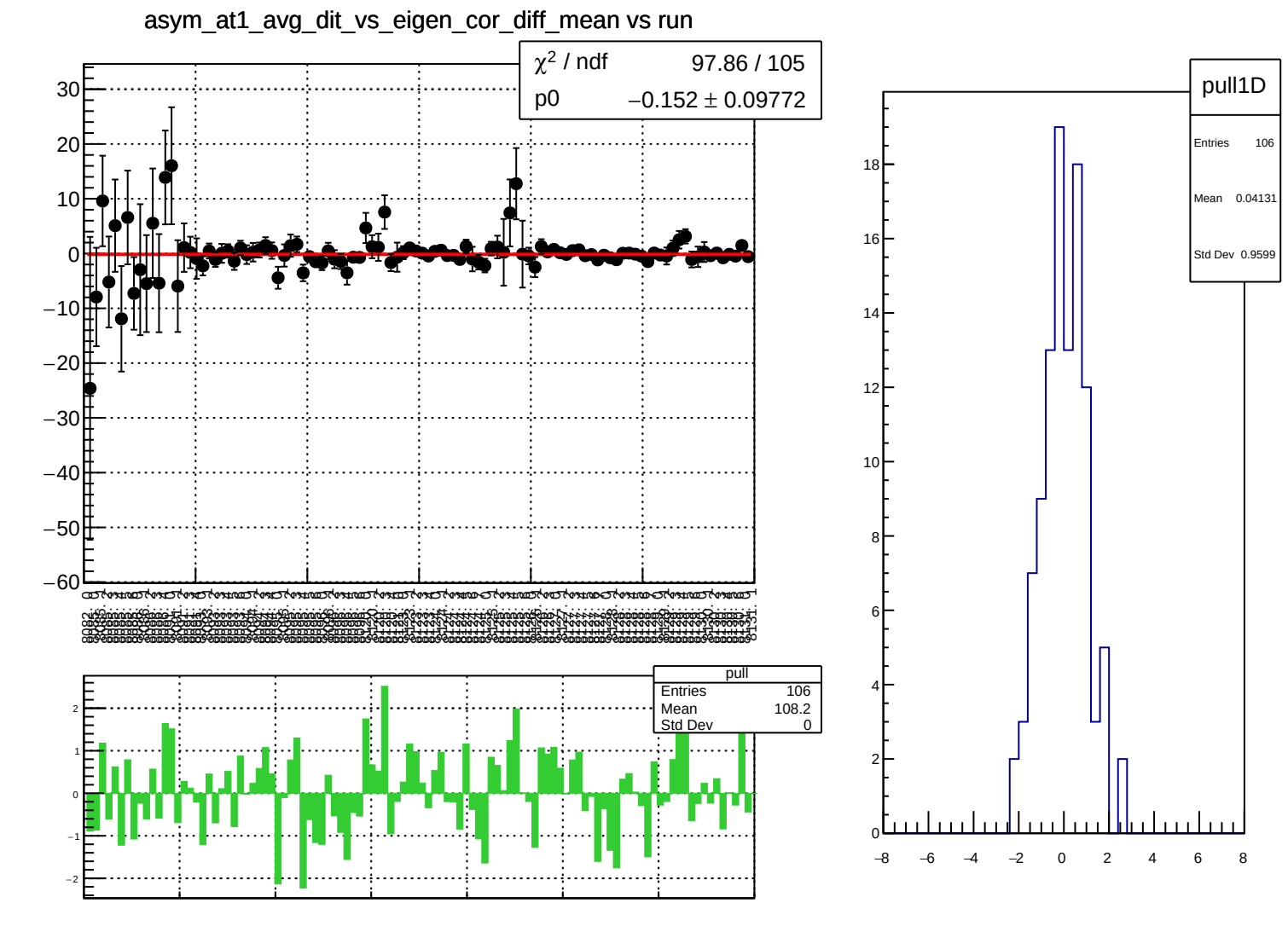

pull1D
Entries 106
Mean 0.01858
Std Dev 0.8368
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

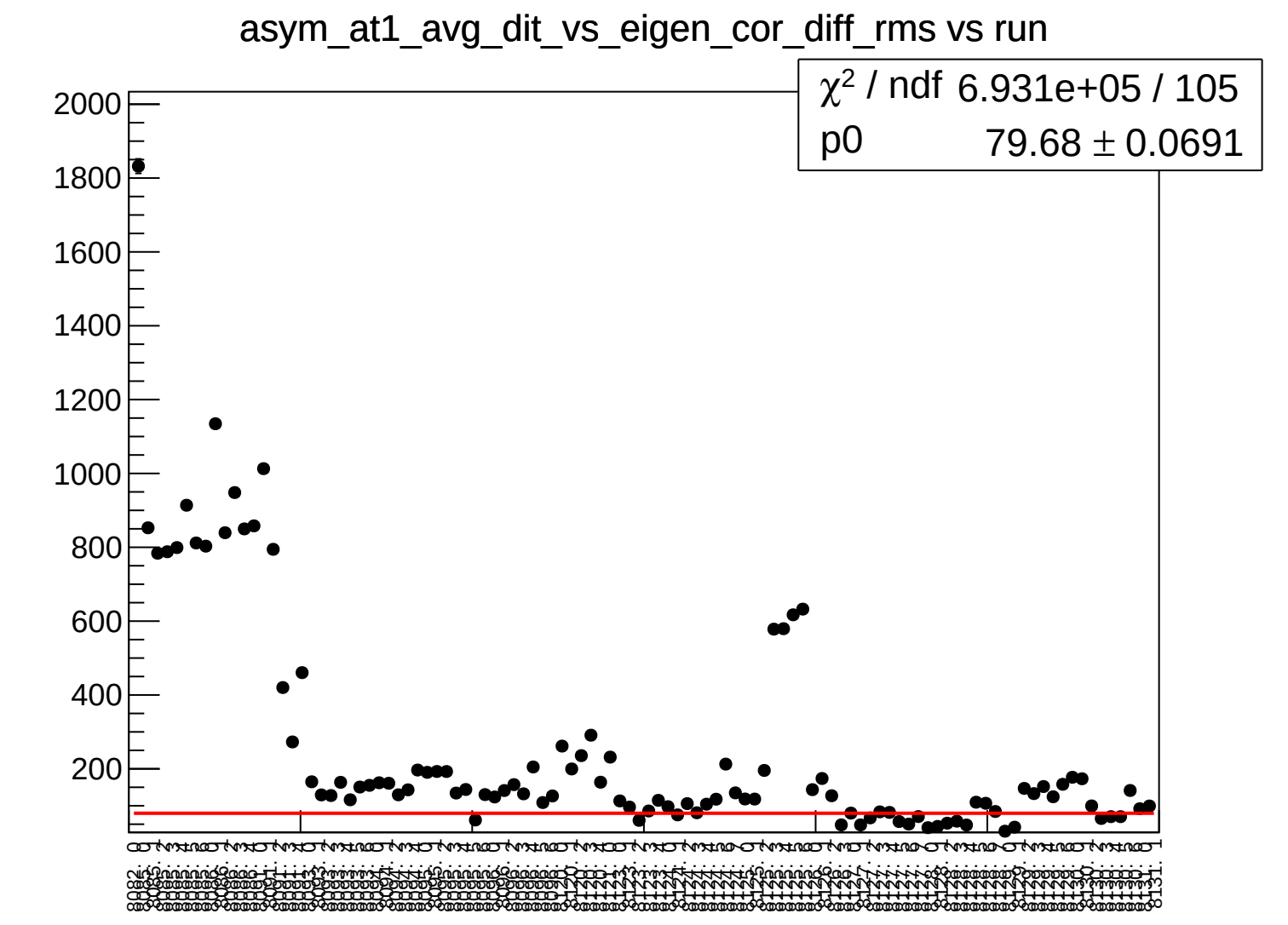

asym_at1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.093e+06 / 105
p0 6.594e−11 ± 6.839e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

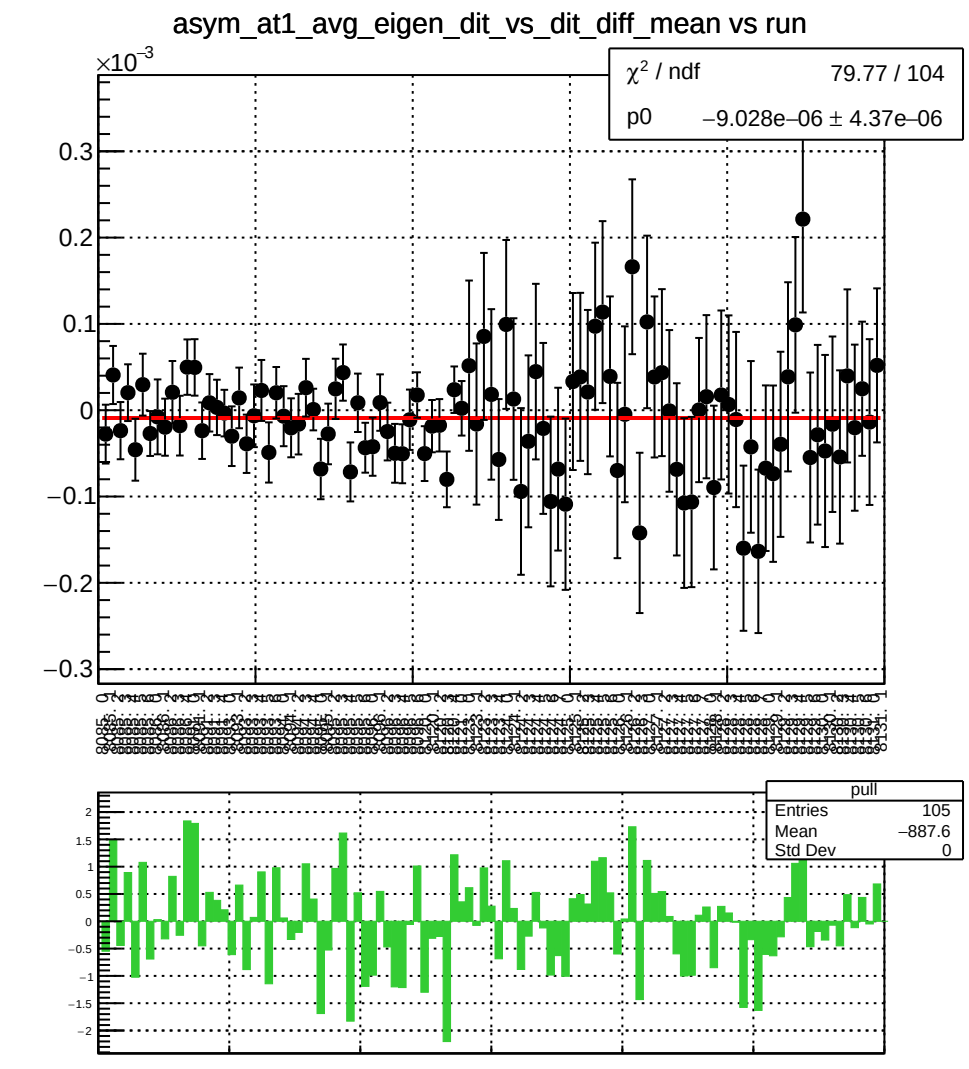

asym_at1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 97.86 / 105
p0 −0.152 ± 0.09772
pull
Entries 106
Mean 108.2
Std Dev 0

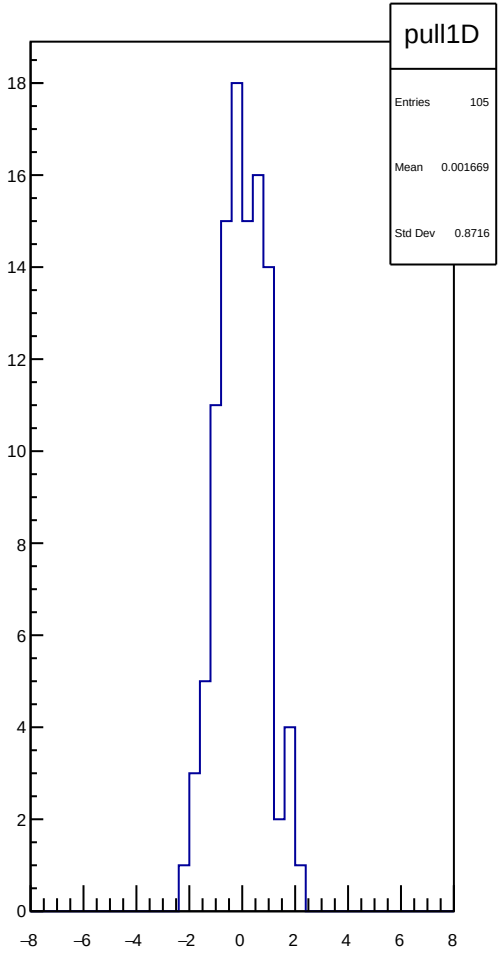

pull1D
Entries 106
Mean 0.04131
Std Dev 0.9599

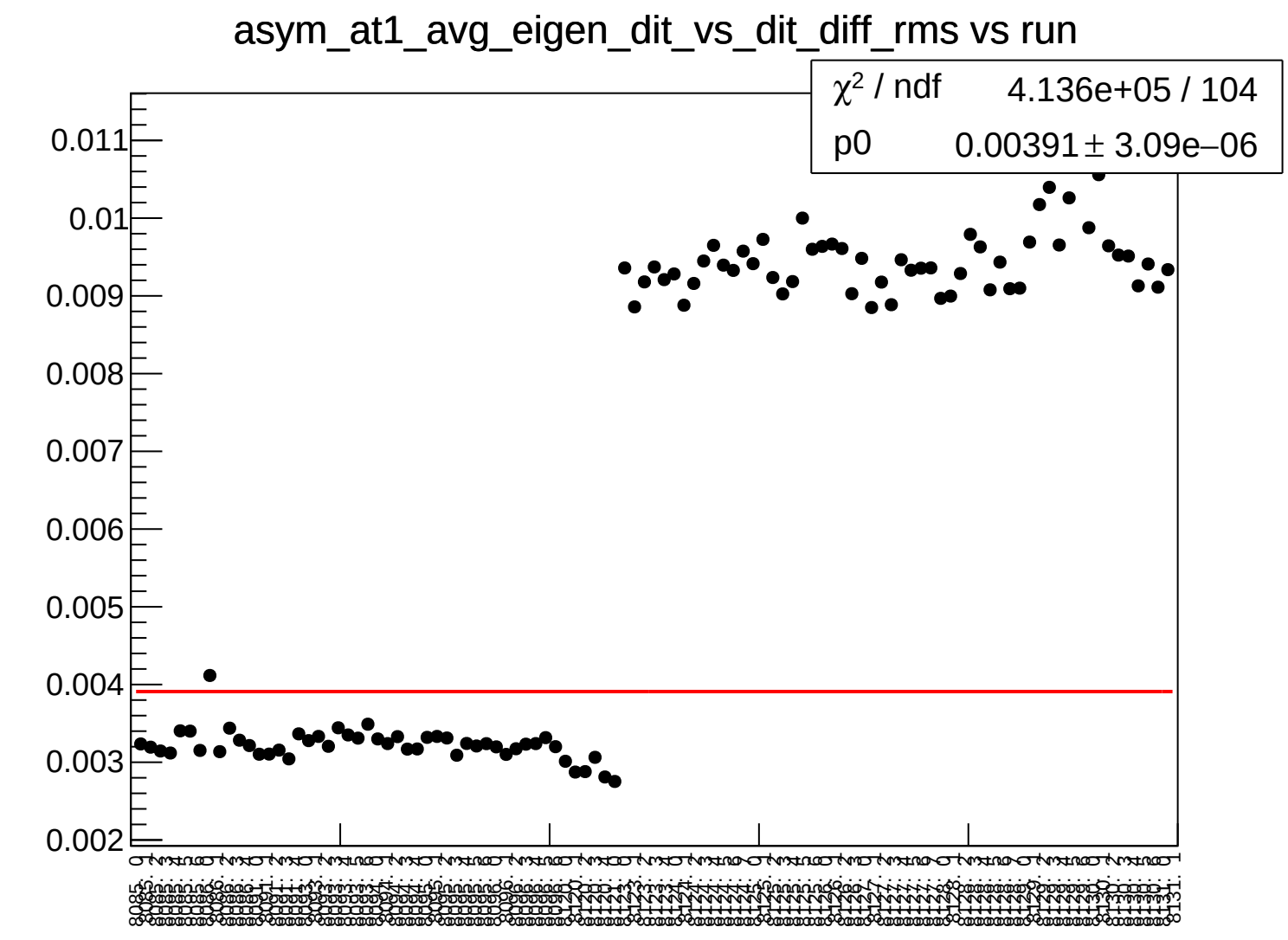

asym_at1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.931e+05 / 105
p0 79.68 ± 0.0691
2000
1800
1600
1400
1200
1000
800
600
400
200

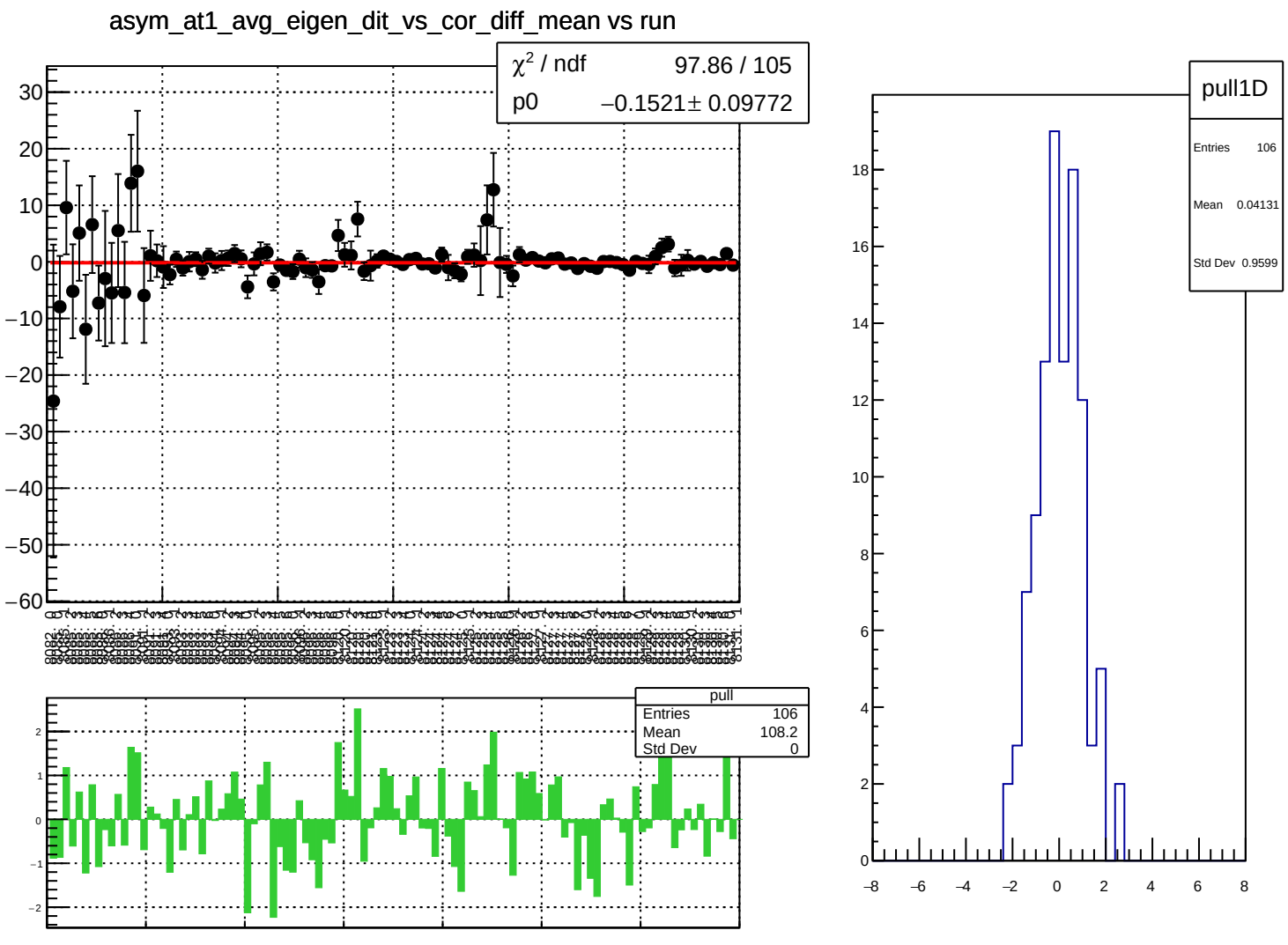

asym_at1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.86 / 105
p0 −0.152 ± 0.09772
pull
Entries 106
Mean 108.2
Std Dev 0
pull1D
Entries 106
Mean 0.04131
Std Dev 0.9599

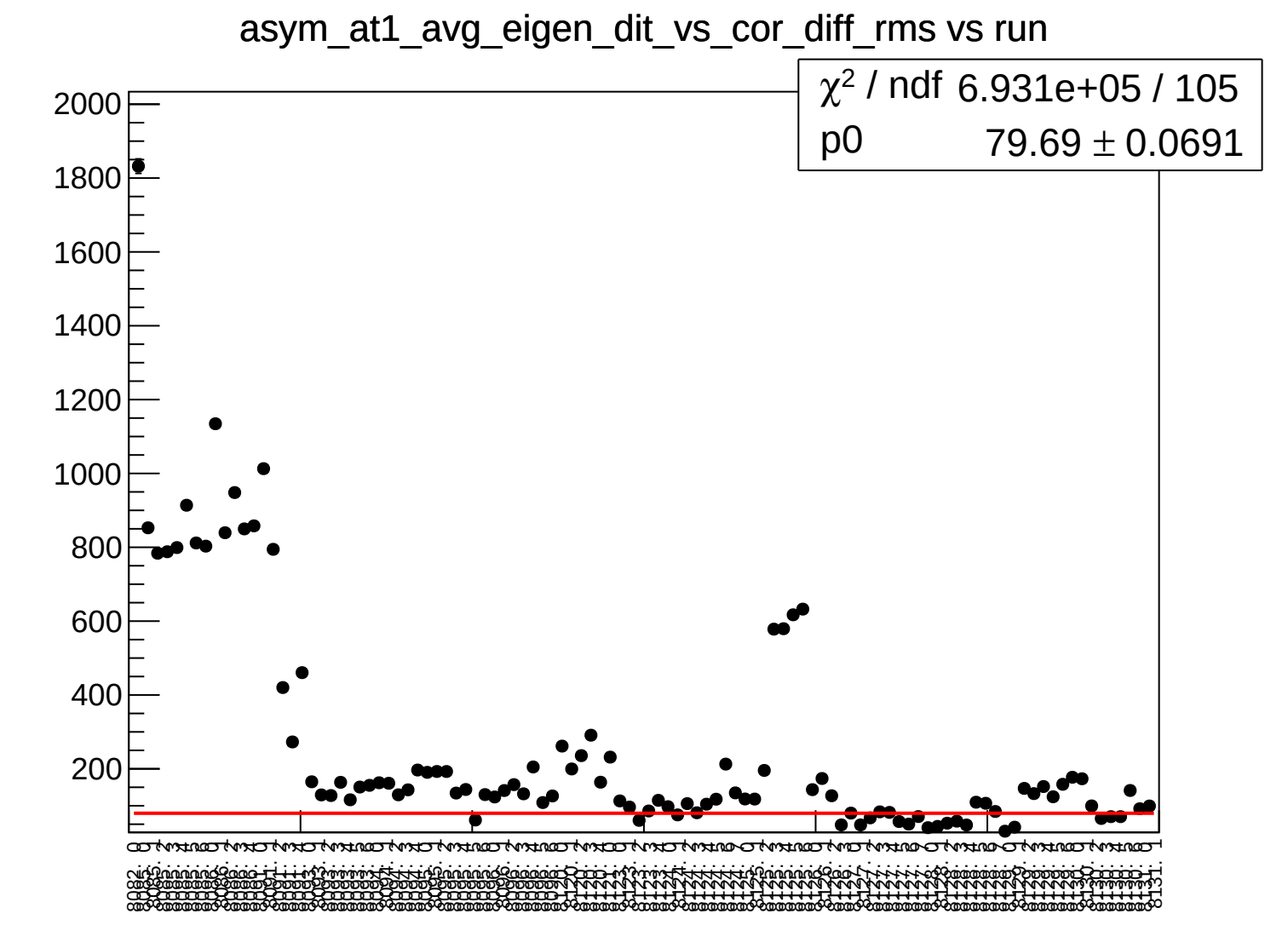

asym_at1_avg_dit_vs_eigen_cor_diff_rms vs run
$\chi^2$ / ndf 6.931e+05 / 105
p0 79.68 ± 0.0691
2000
1800
1600
1400
1200
1000
800
600
400
200

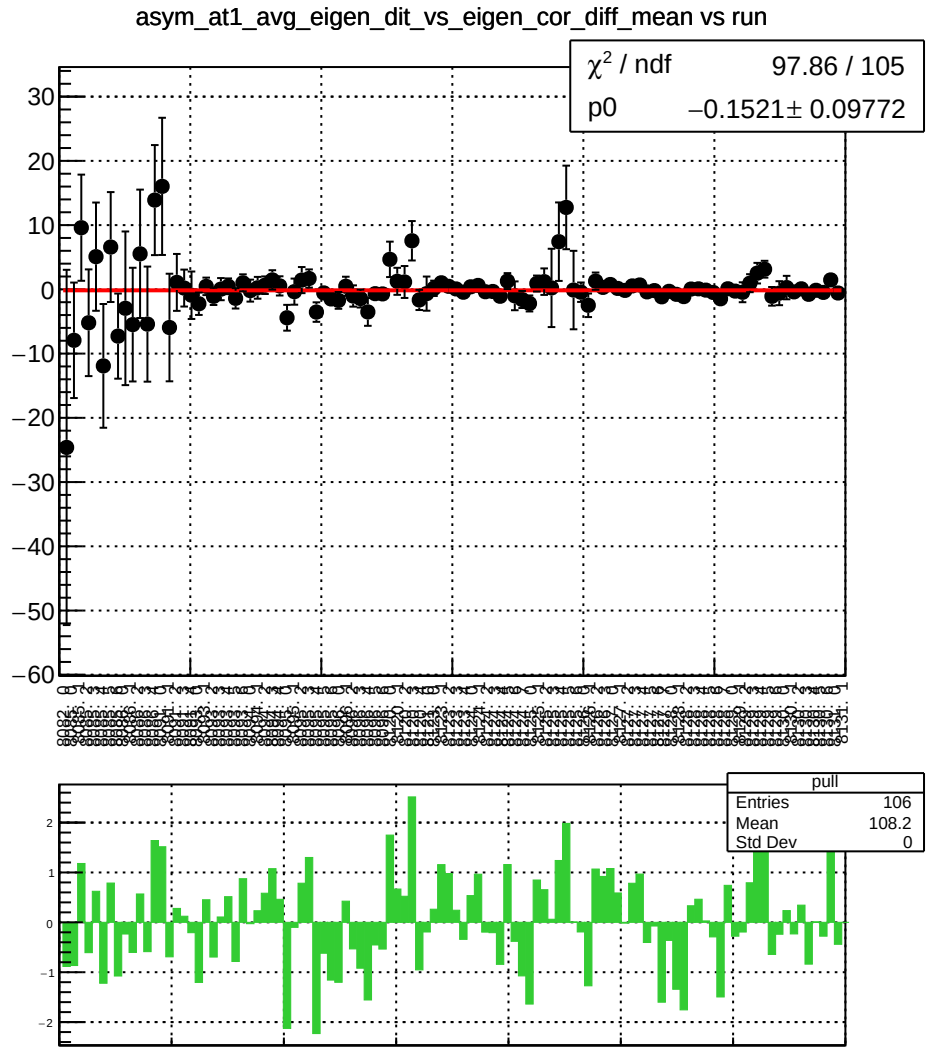

asym_at1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 79.77 / 104
p0 −9.028e−06 ± 4.37e−06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 105
Mean −887.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

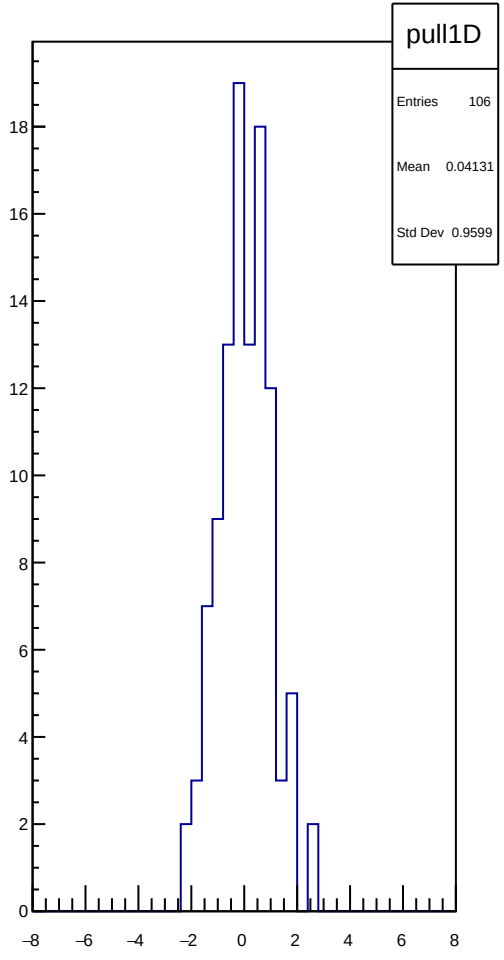

pull1D
Entries 105
Mean 0.001669
Std Dev 0.8716
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

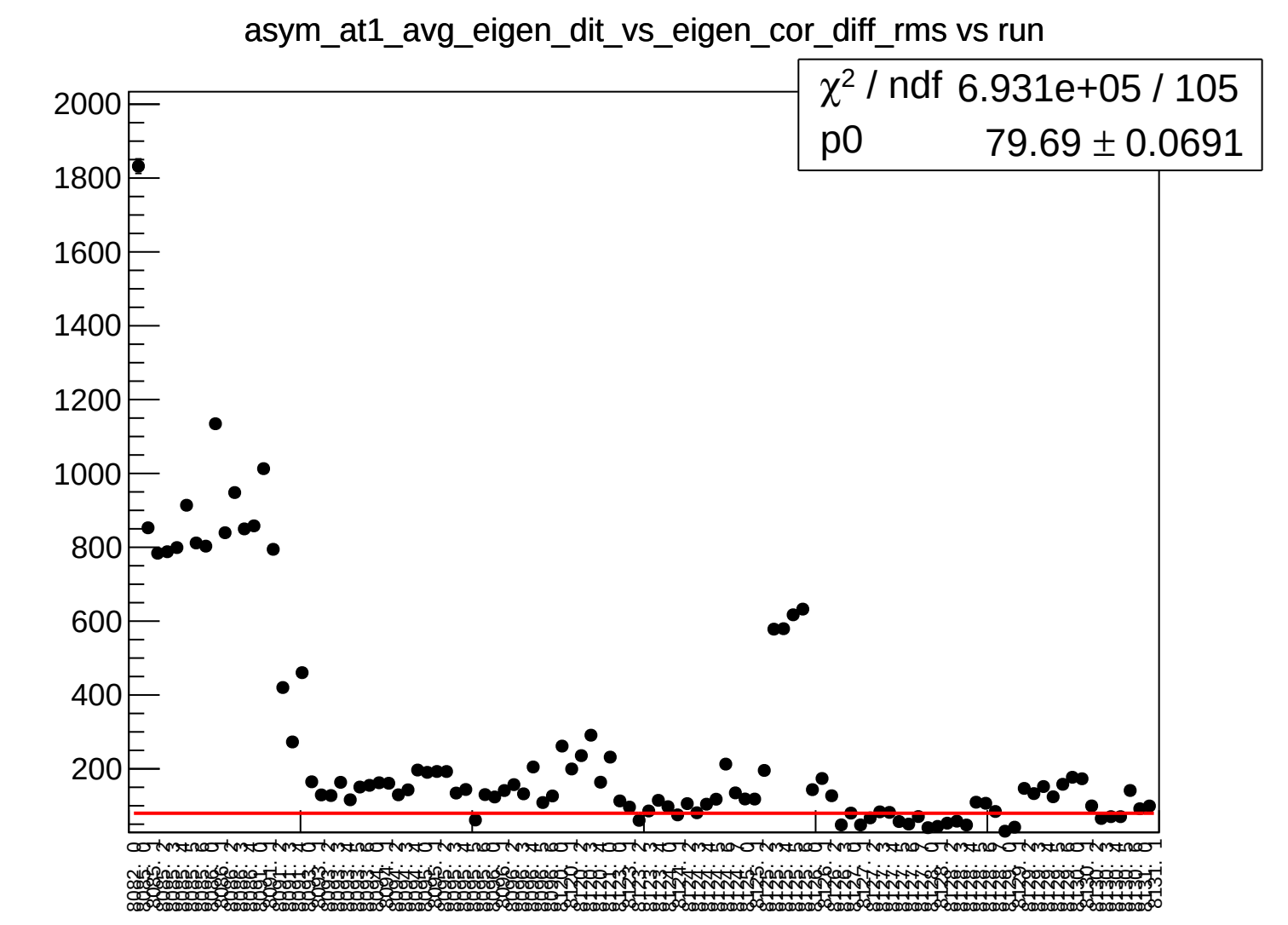

asym_at1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.136e+05 / 104
p0 0.00391 ± 3.09e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002

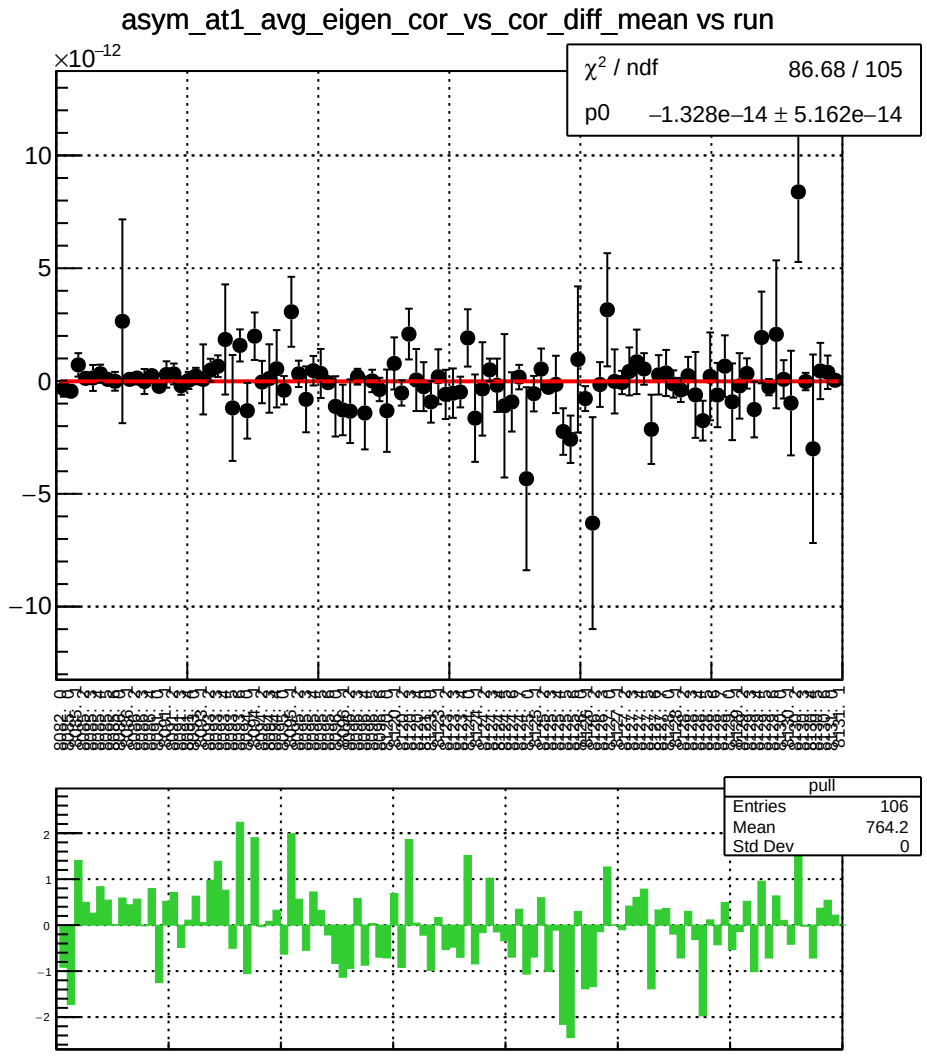

asym_at1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 97.86 / 105
p0 −0.1521± 0.09772
pull
Entries 106
Mean 108.2
Std Dev 0
pull1D
Entries 106
Mean 0.04131
Std Dev 0.9599

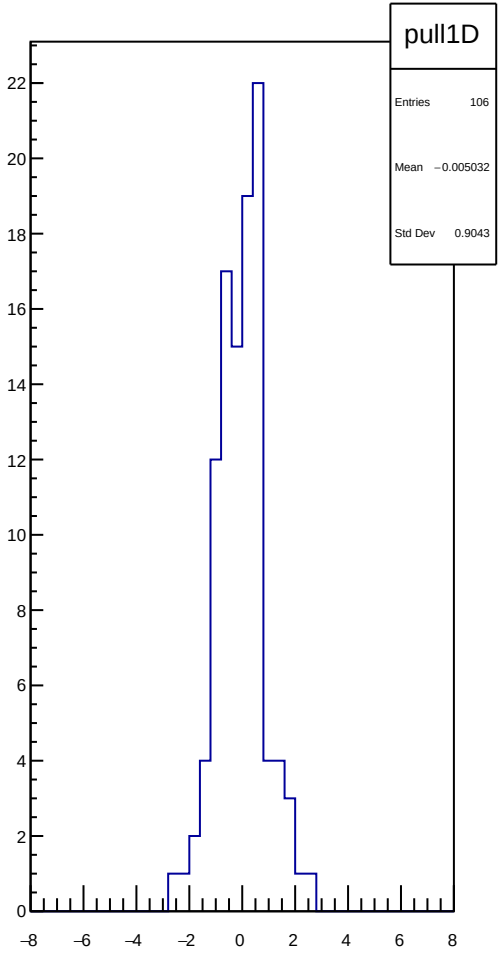

asym_at1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.931e+05 / 105
p0 79.69 ± 0.0691
2000
1800
1600
1400
1200
1000
800
600
400
200

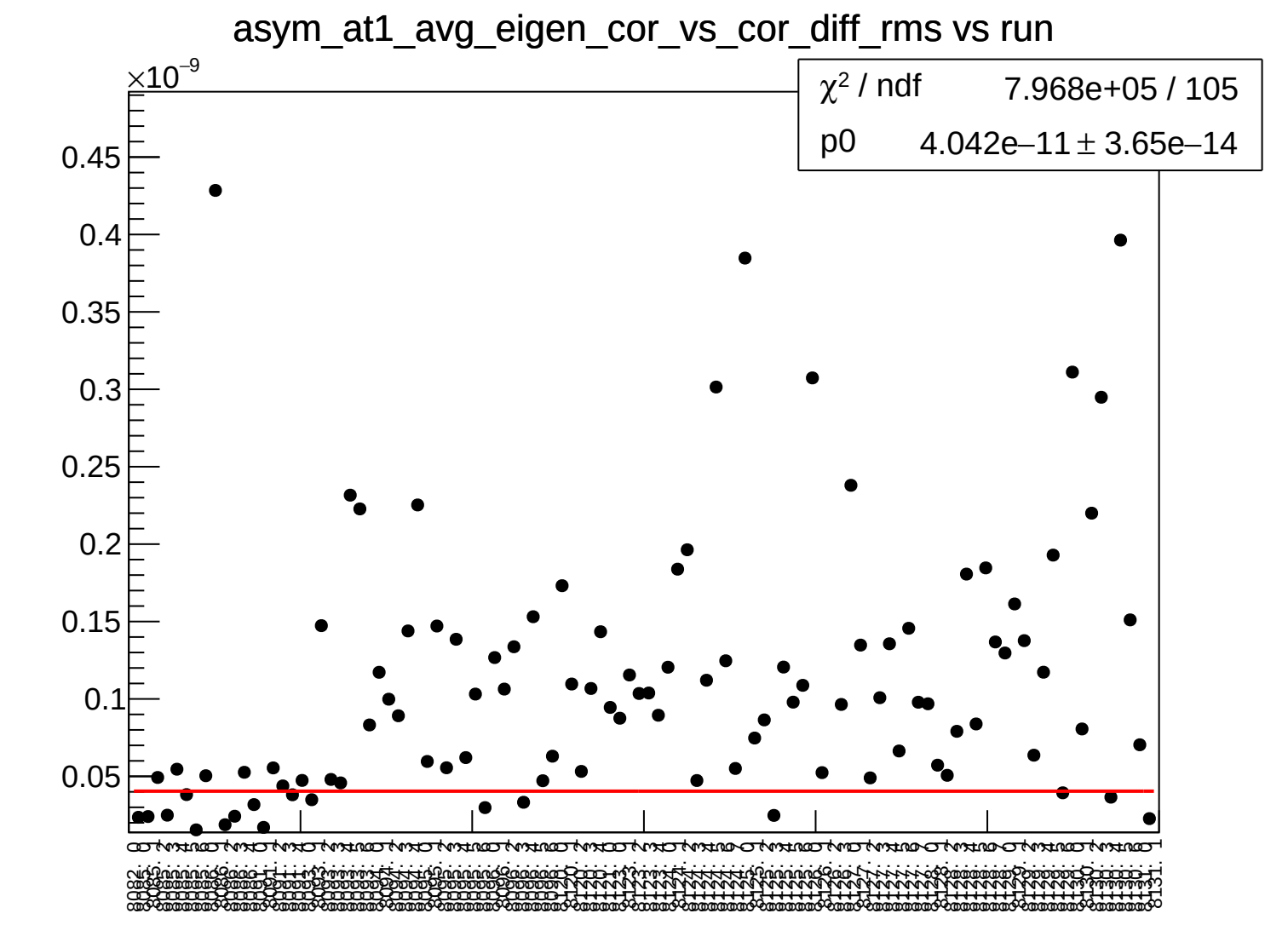

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.86 / 105
p0 −0.1521± 0.09772
pull
Entries 106
Mean 108.2
Std Dev 0

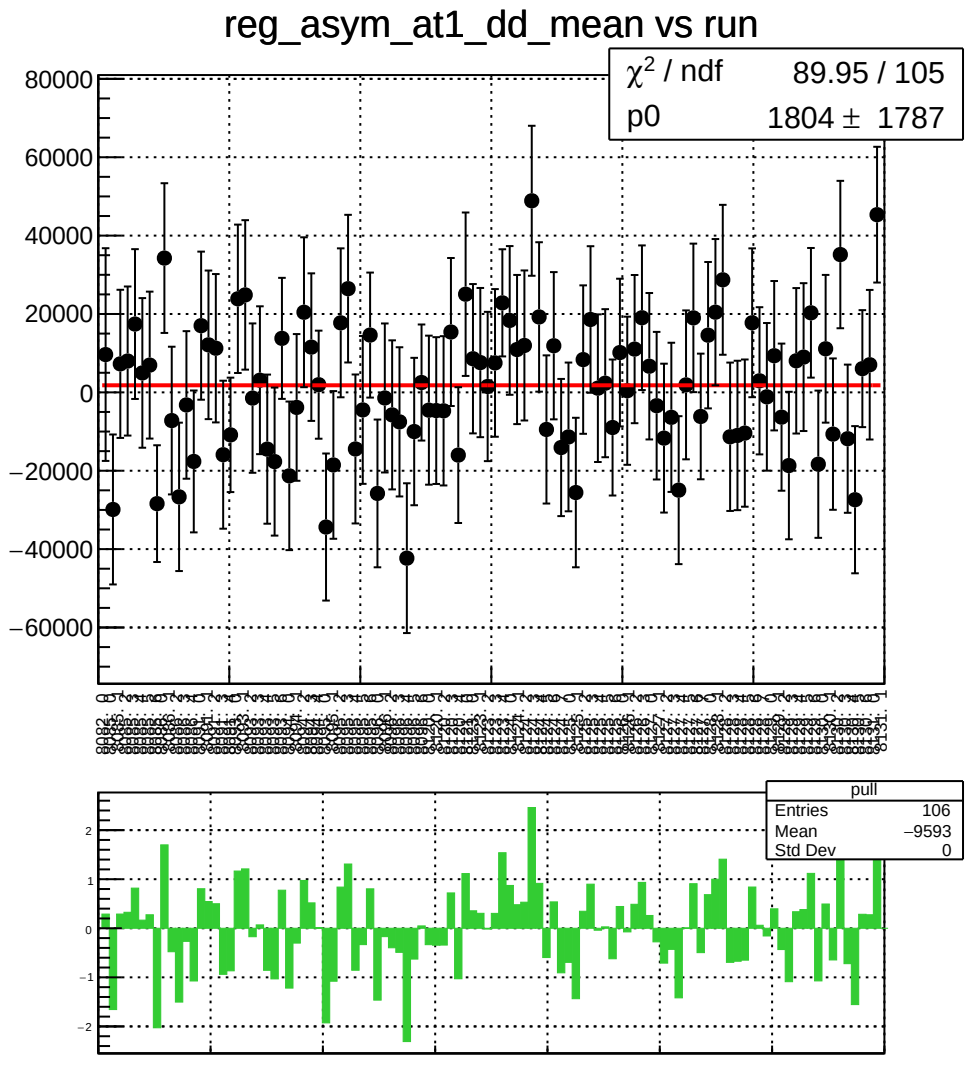

pull1D
Entries 106
Mean 0.04131
Std Dev 0.9599

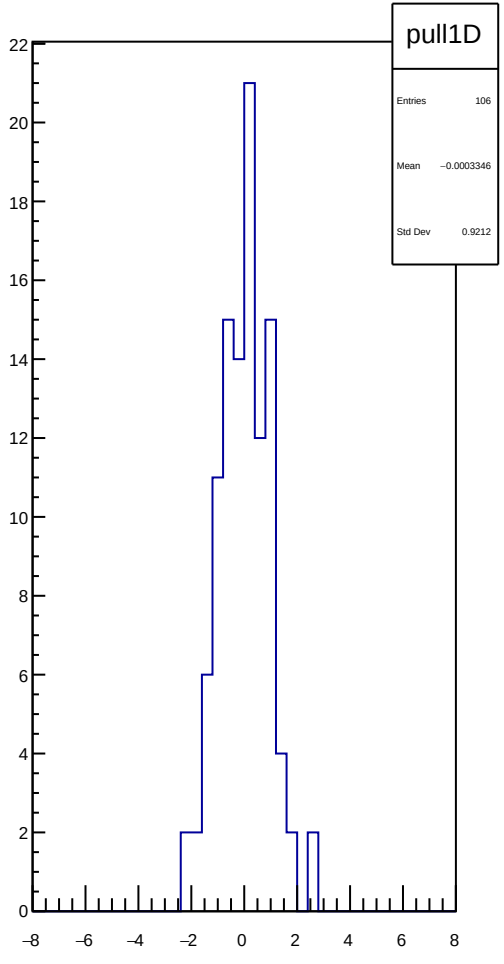

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.931e+05 / 105
p0 79.69 ± 0.0691
2000
1800
1600
1400
1200
1000
800
600
400
200

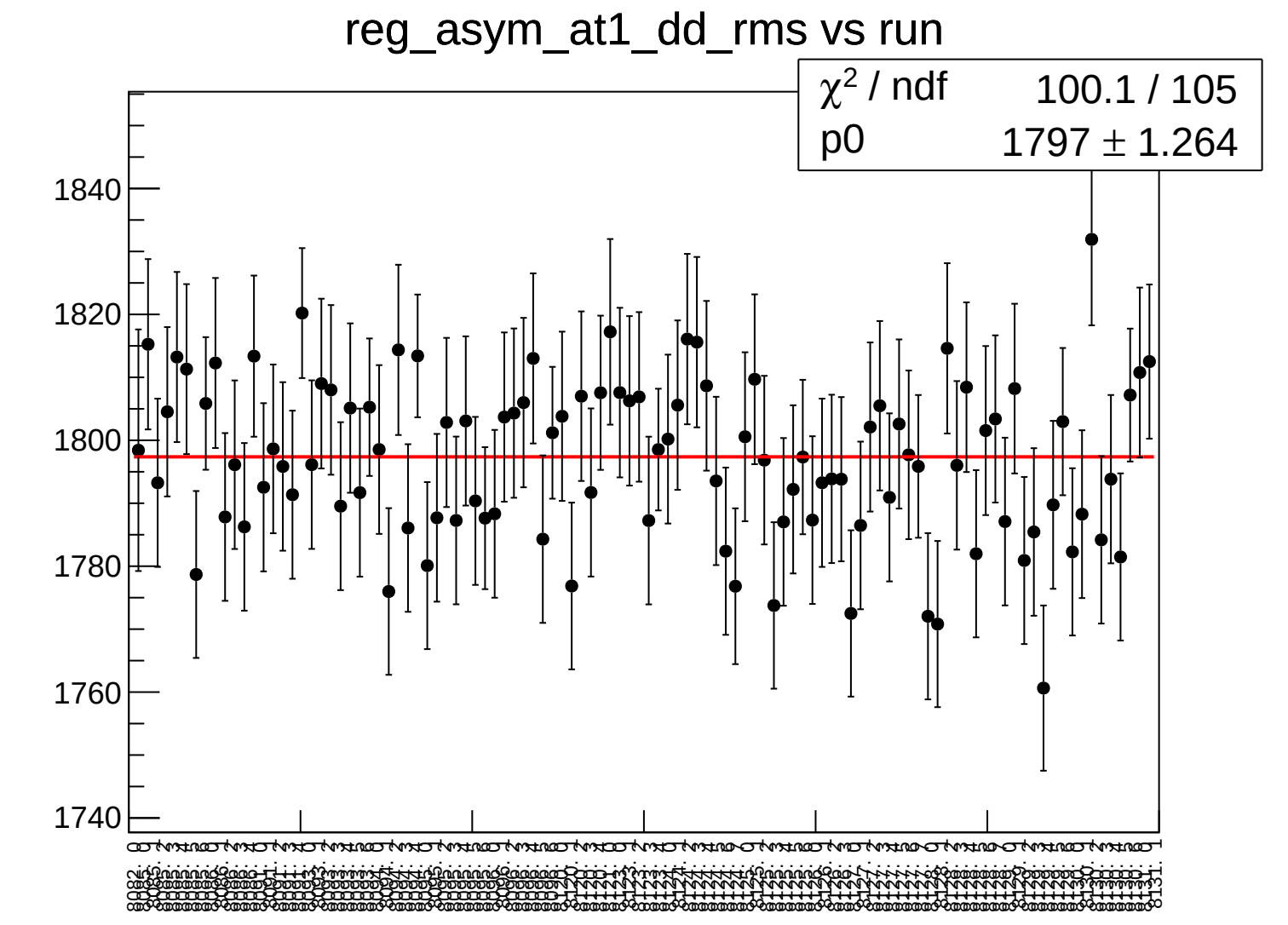

asym_at1_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 86.68 / 105
p0 −1.328e−14 ± 5.162e−14
pull
Entries 106
Mean 764.2
Std Dev 0

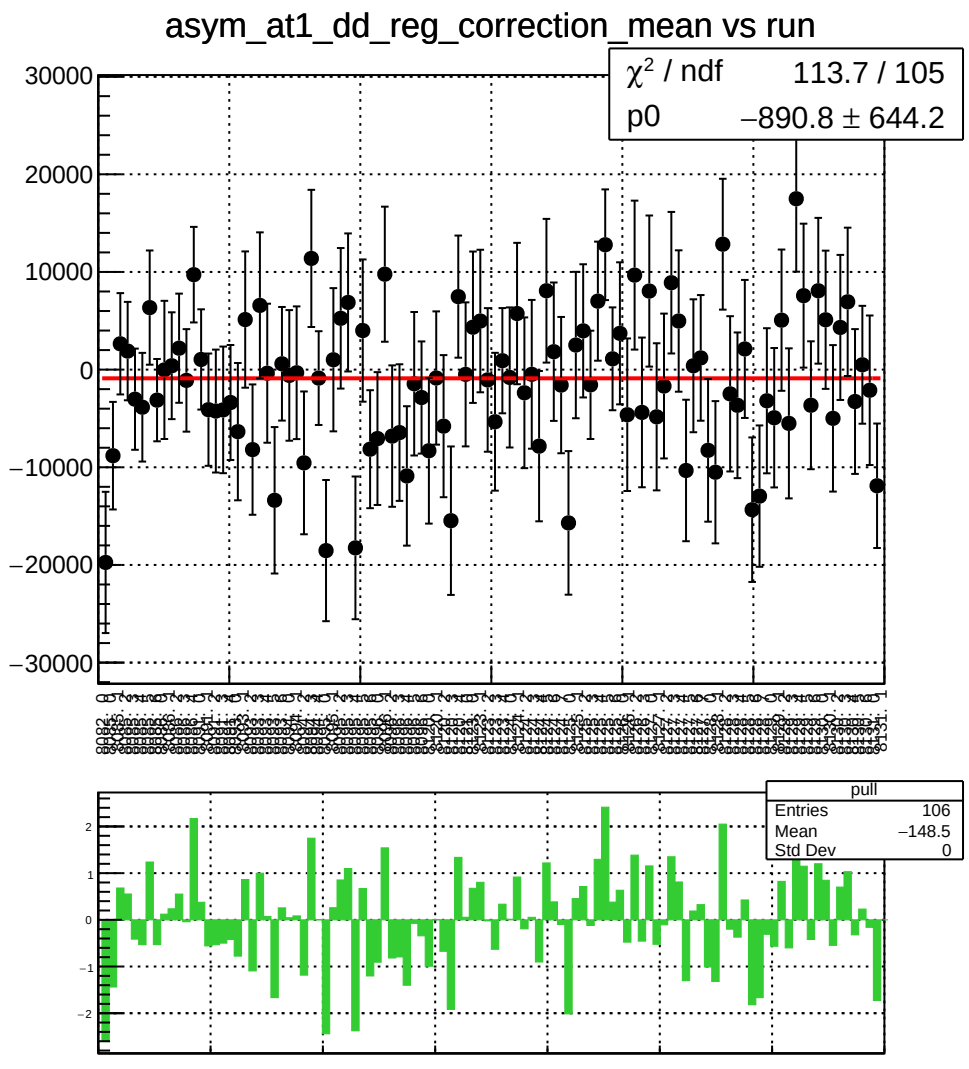

pull1D
Entries 106
Mean −0.005032
Std Dev 0.9043

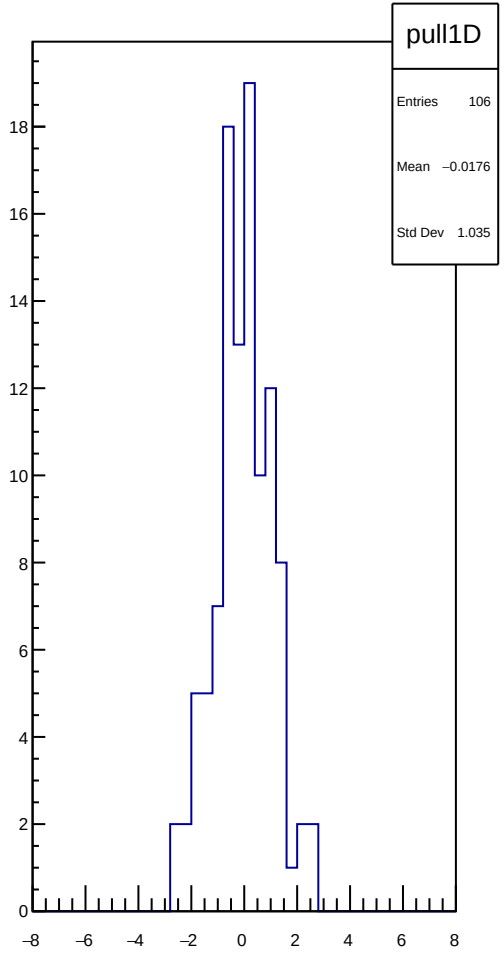

asym_at1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.968e+05 / 105
p0 4.042e−11 ± 3.65e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

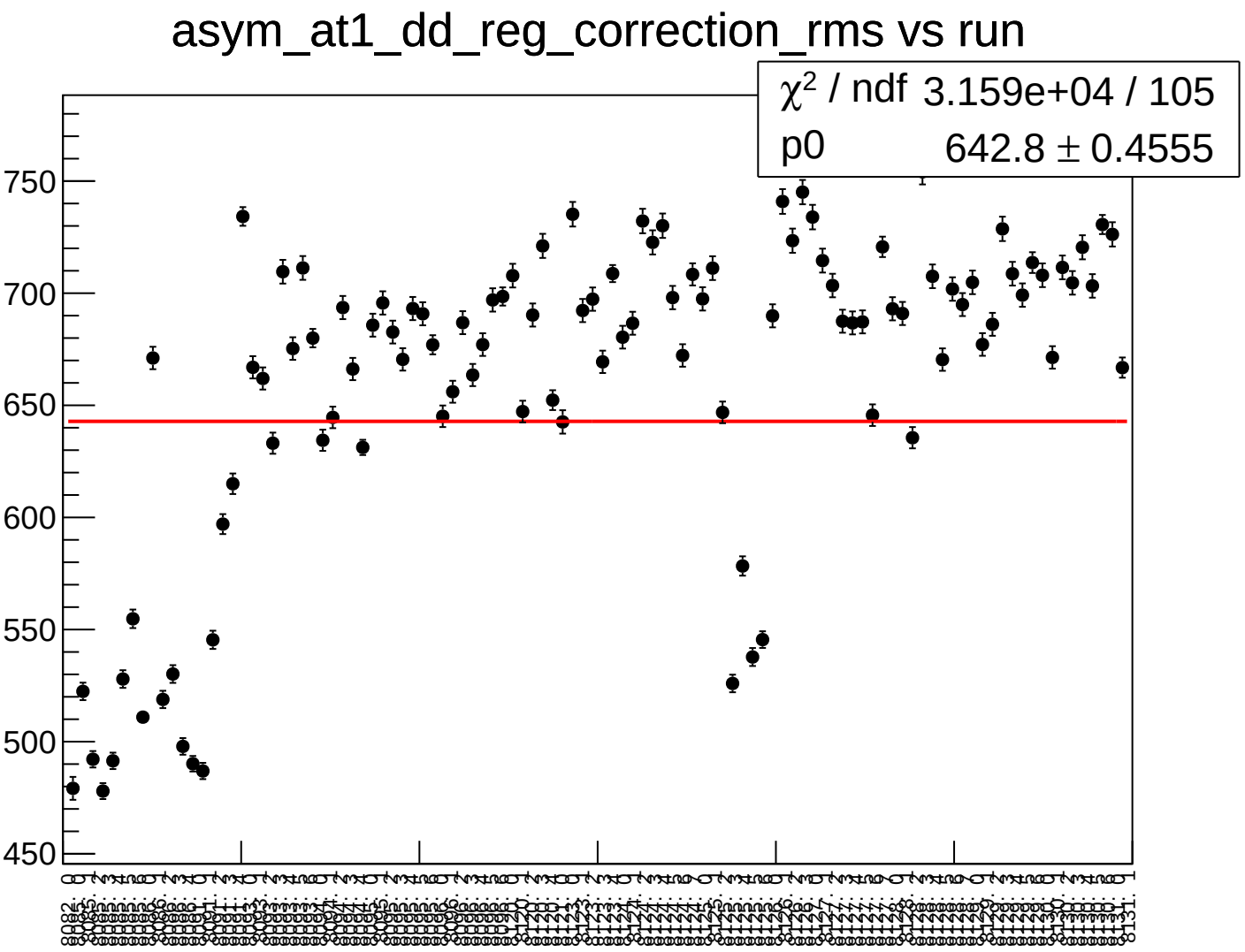

reg_asym_at1_dd_mean vs run
χ² / ndf 89.95 / 105
p0 1804 ± 1787
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean −9593
Std Dev 0
2
1
0
−1
−2

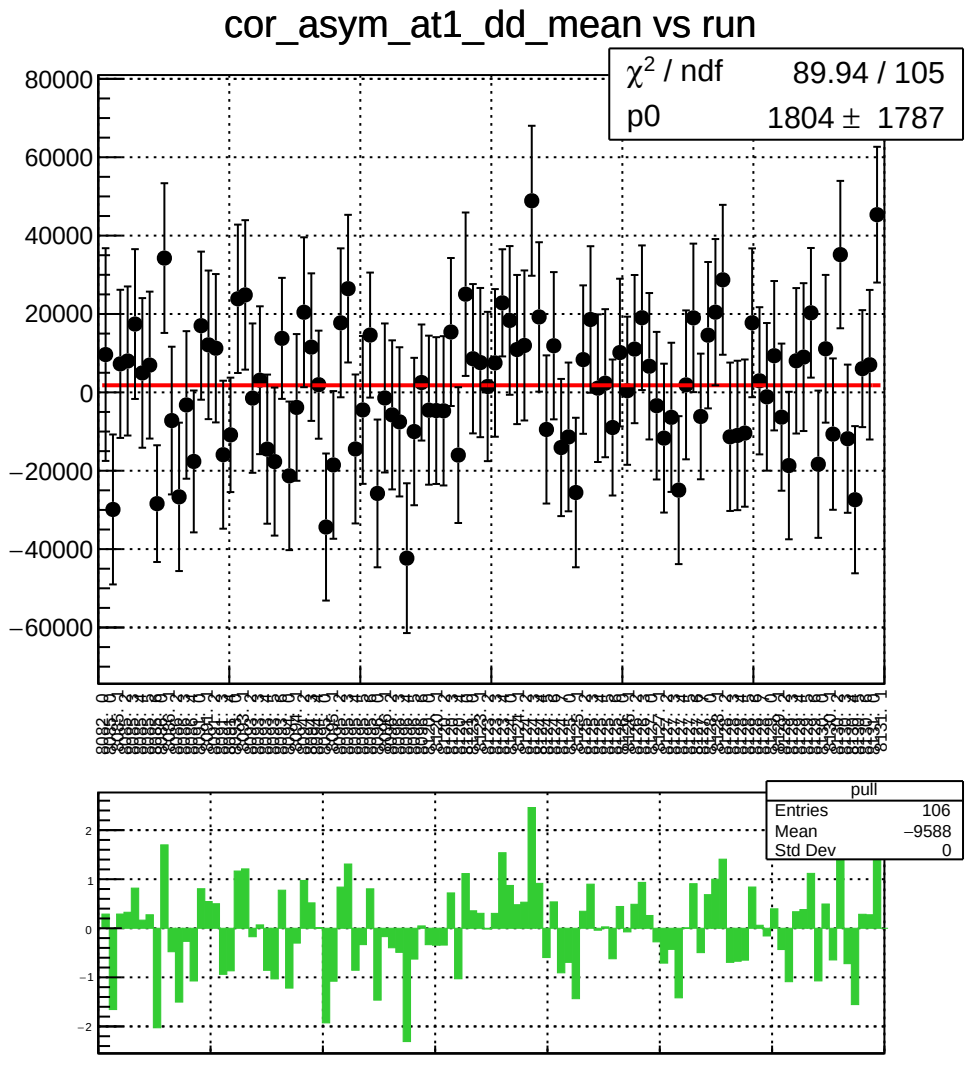

pull1D
Entries 106
Mean −0.0003346
Std Dev 0.9212
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

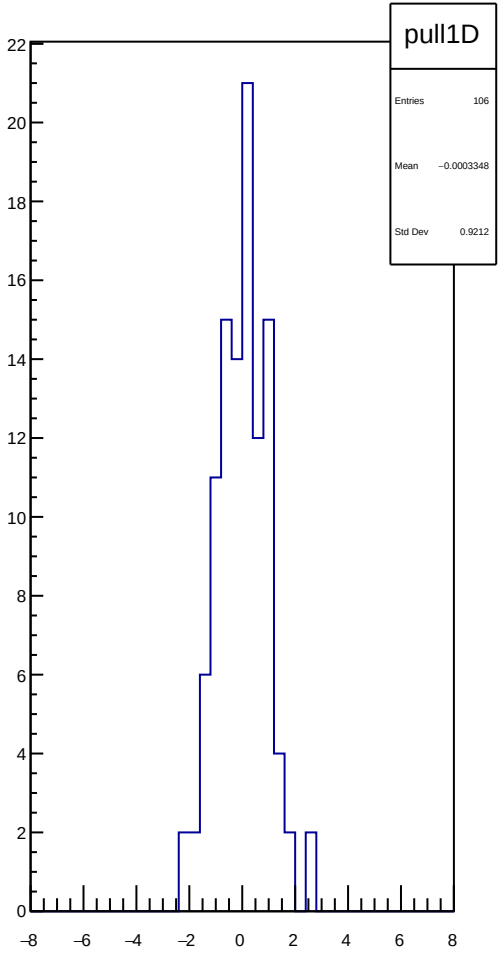

reg_asym_at1_dd_rms vs run
$\chi^2$ / ndf 100.1 / 105
p0 1797 ± 1.264
1840
1820
1800
1780
1760
1740

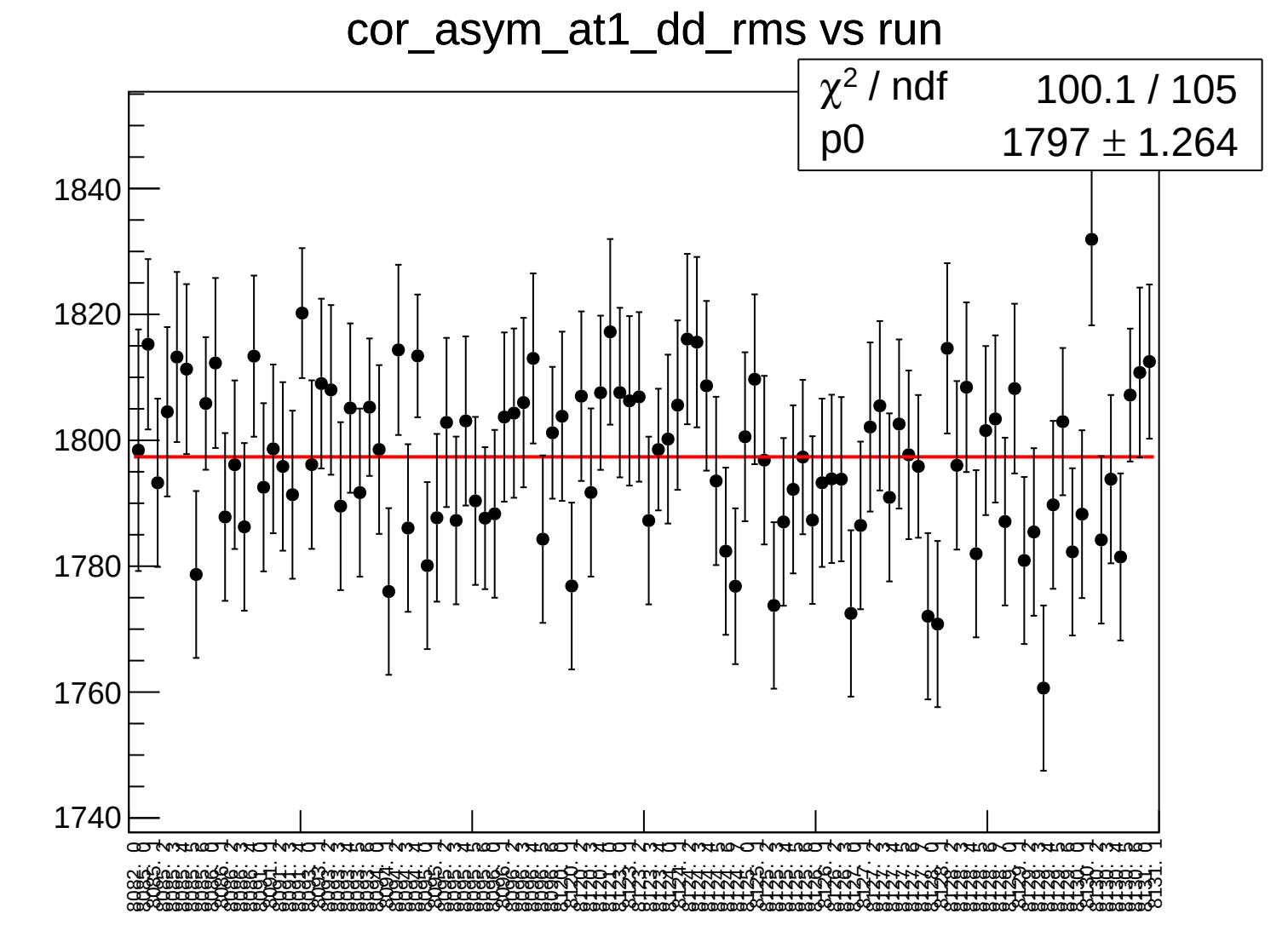

asym_at1_dd_reg_correction_mean vs run
χ² / ndf 113.7 / 105
p0 −890.8 ± 644.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 106
Mean −148.5
Std Dev 0
2
1
0
−1
−2

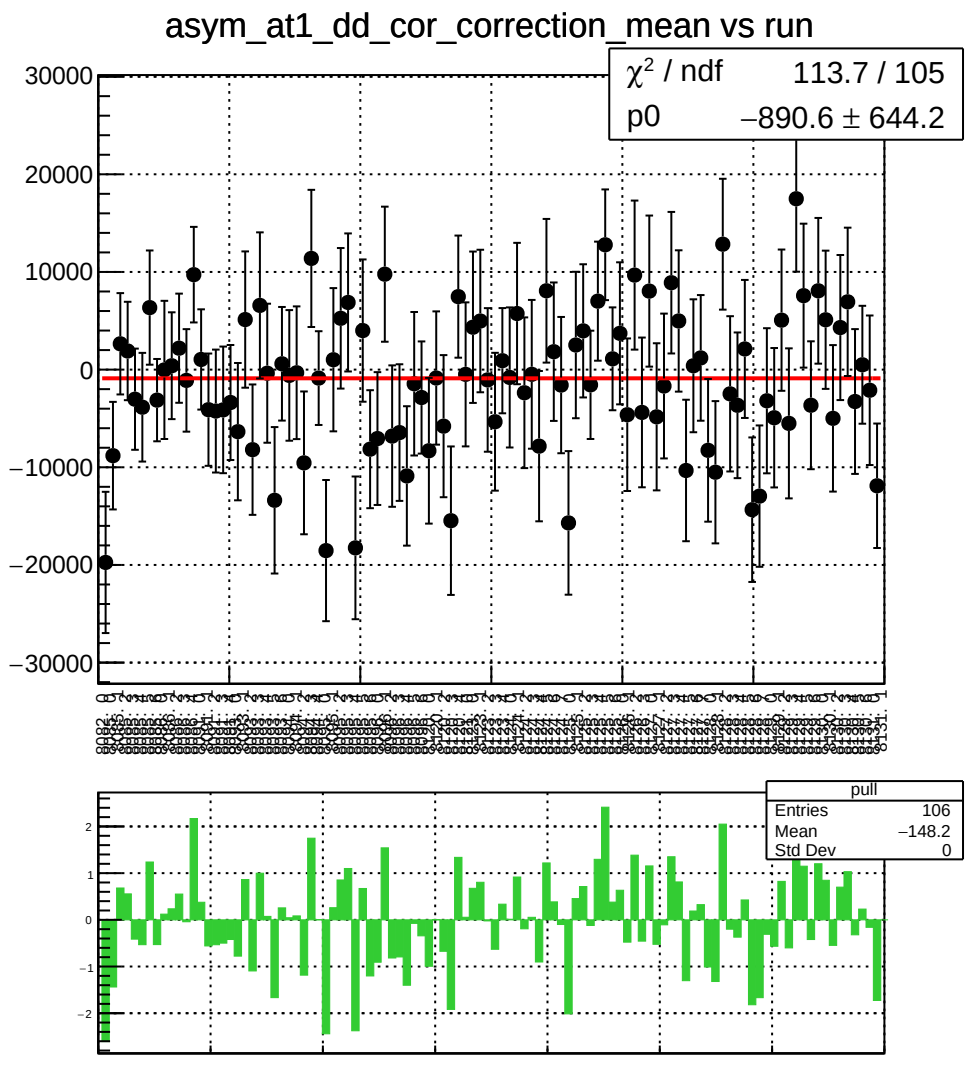

pull1D
Entries 106
Mean −0.0176
Std Dev 1.035
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

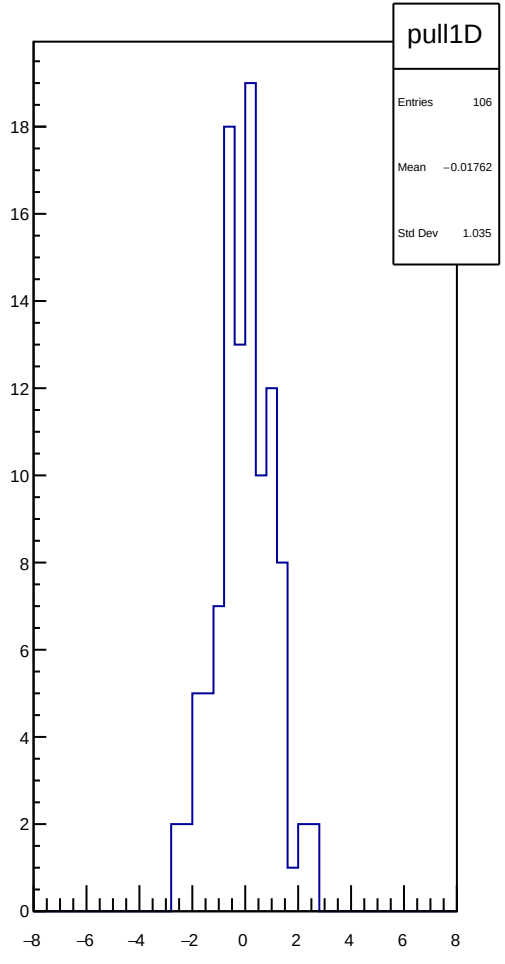

asym_at1_dd_reg_correction_rms vs run
χ² / ndf 3.159e+04 / 105
p0 642.8 ± 0.4555
750
700
650
600
550
500
450

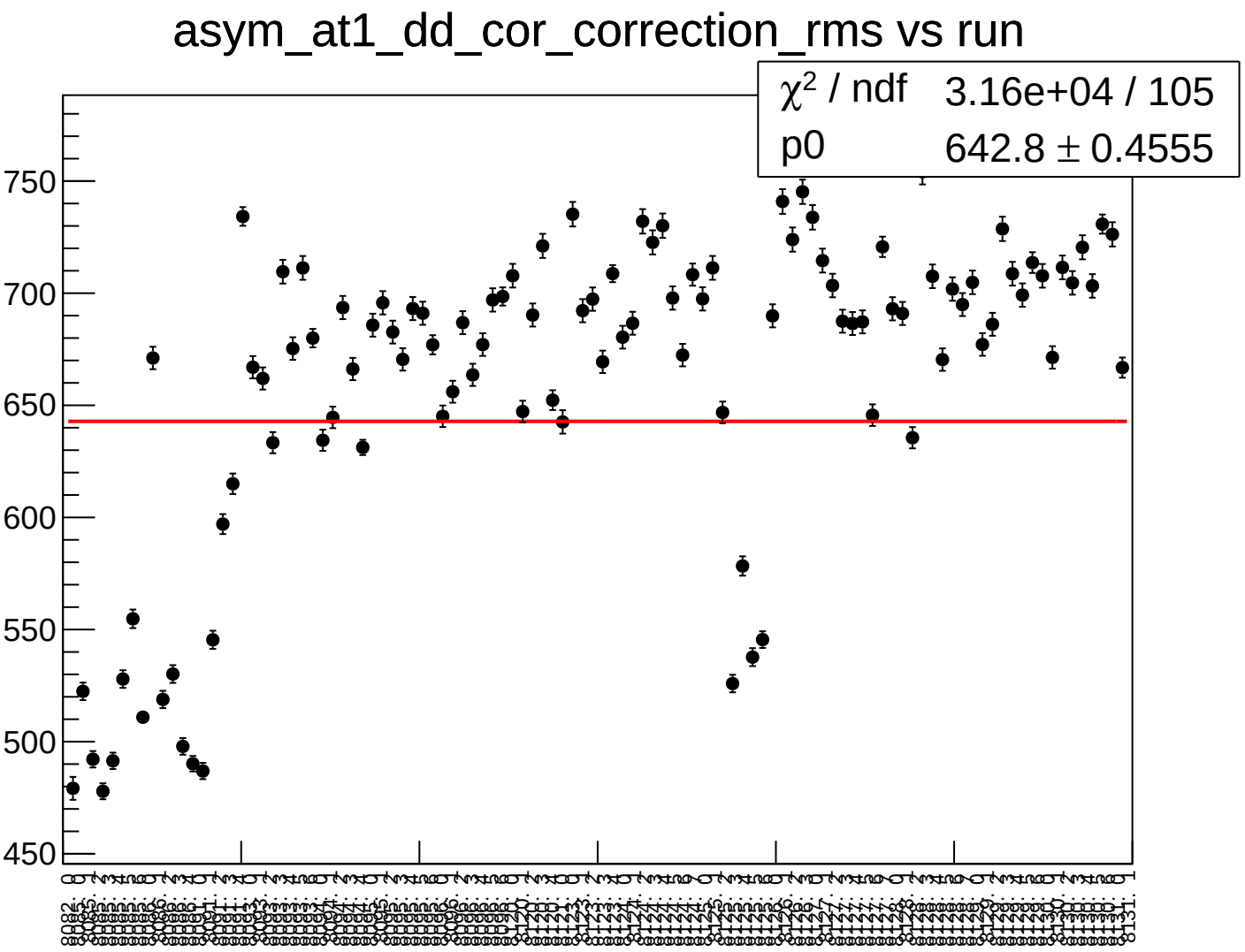

cor_asym_at1_dd_mean vs run
χ² / ndf 89.94 / 105
p0 1804 ± 1787
pull
Entries 106
Mean −9588
Std Dev 0

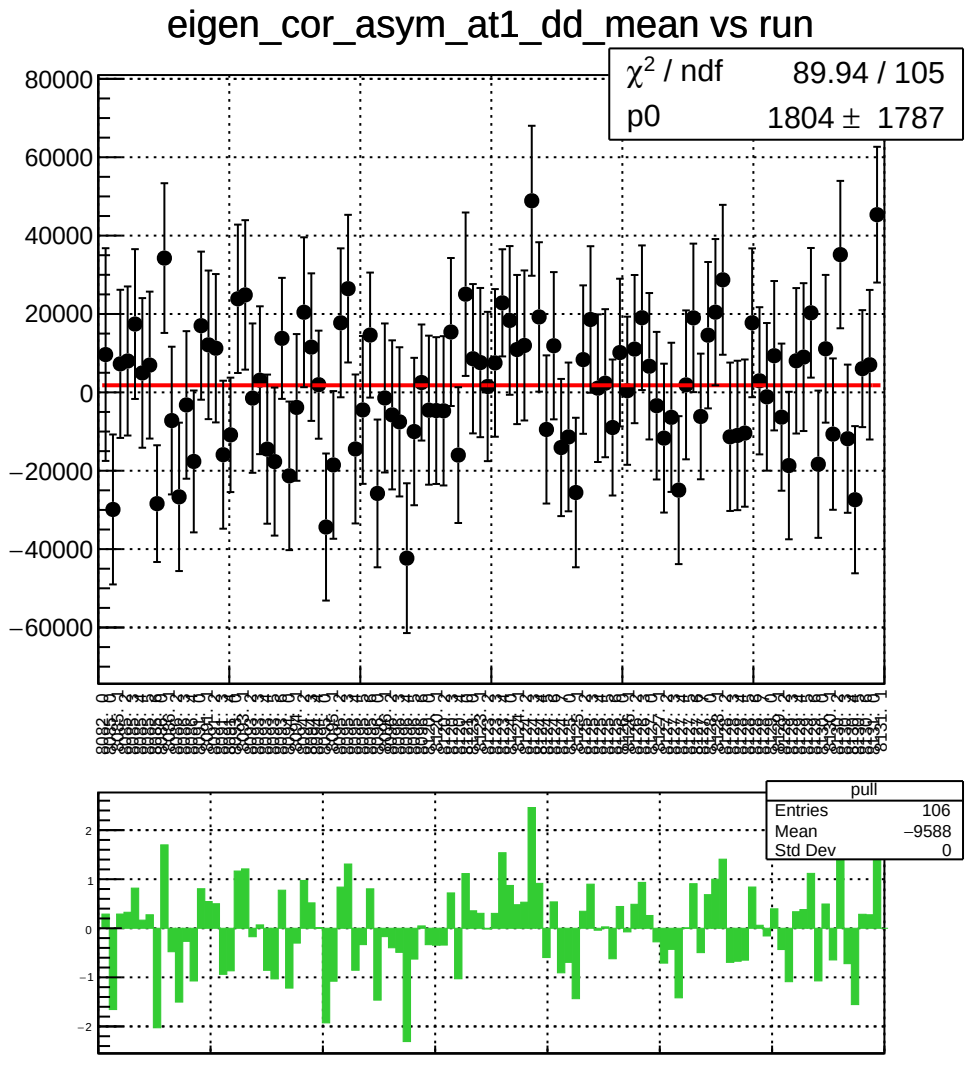

pull1D
Entries 106
Mean −0.0003348
Std Dev 0.9212

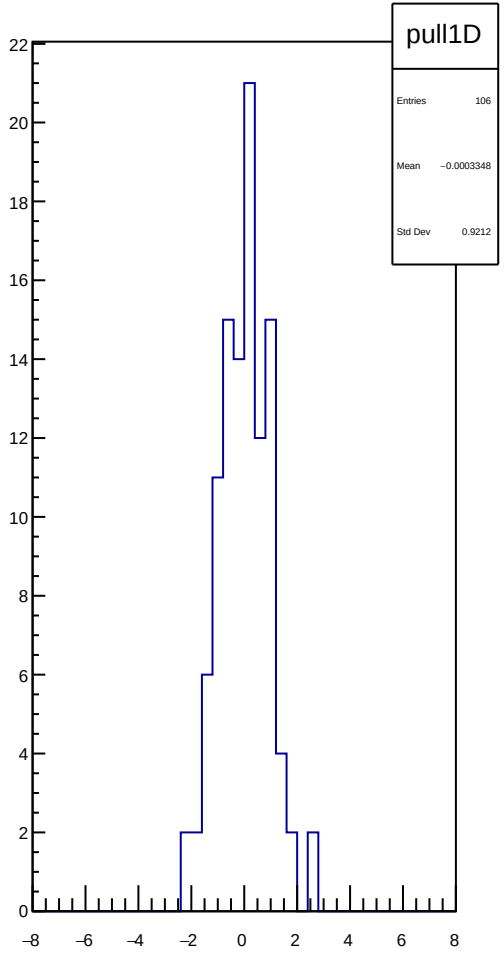

cor_asym_at1_dd_rms vs run
χ² / ndf 100.1 / 105
p0 1797 ± 1.264
1840
1820
1800
1780
1760
1740

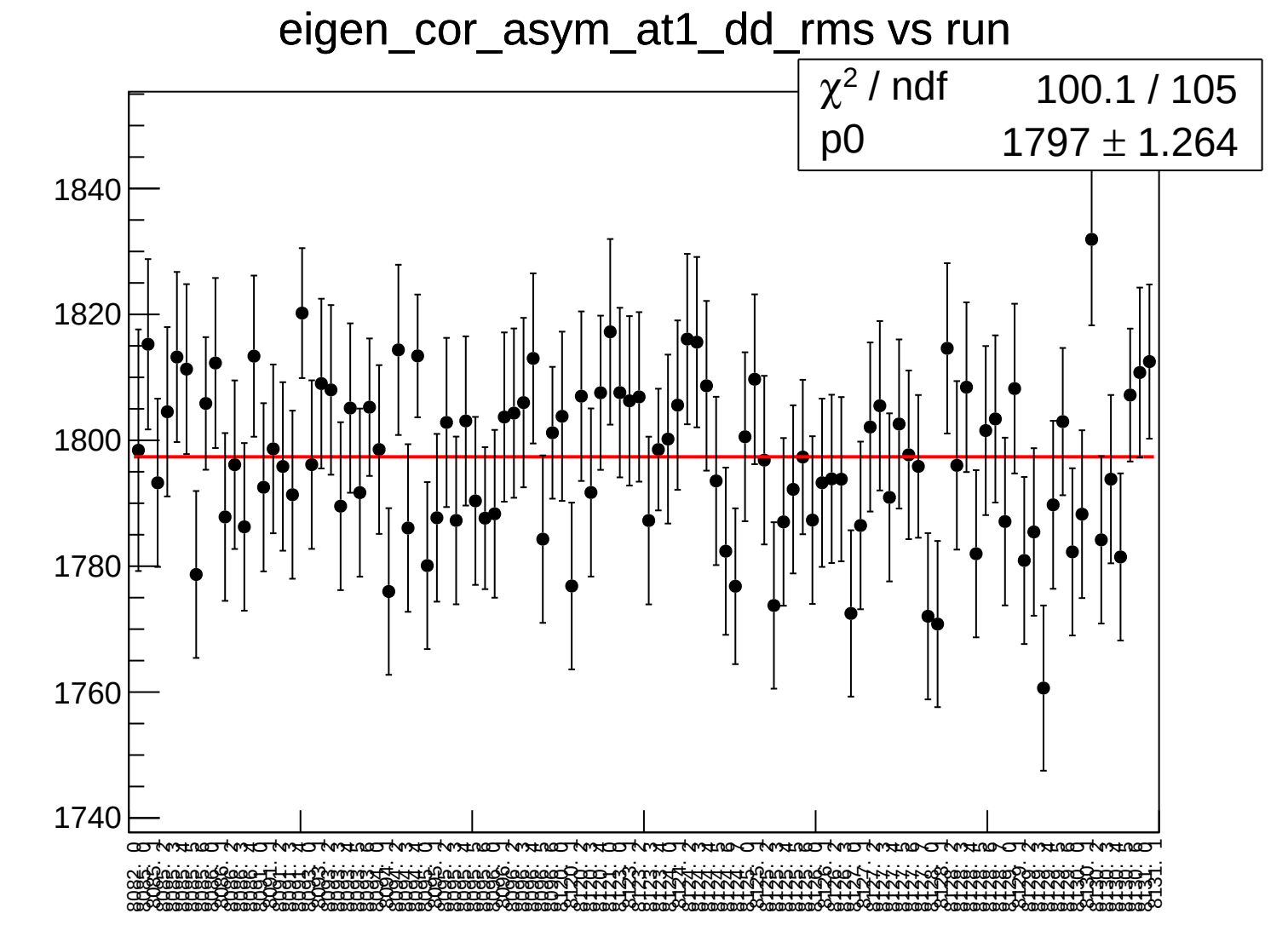

asym_at1_dd_cor_correction_mean vs run
χ² / ndf 113.7 / 105
p0 −890.6 ± 644.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 106
Mean −148.2
Std Dev 0
2
1
0
−1
−2

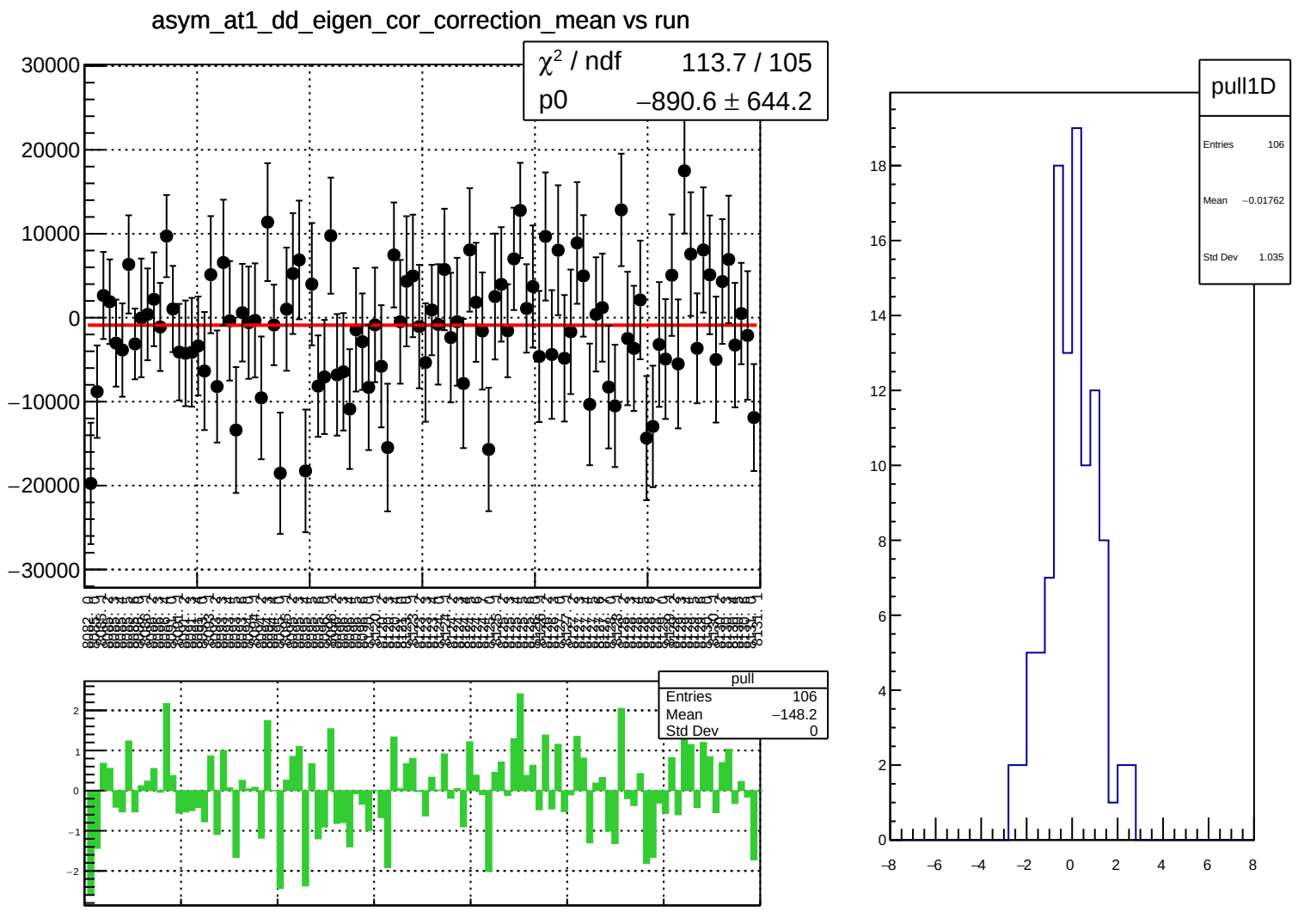

pull1D
Entries 106
Mean −0.01762
Std Dev 1.035
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

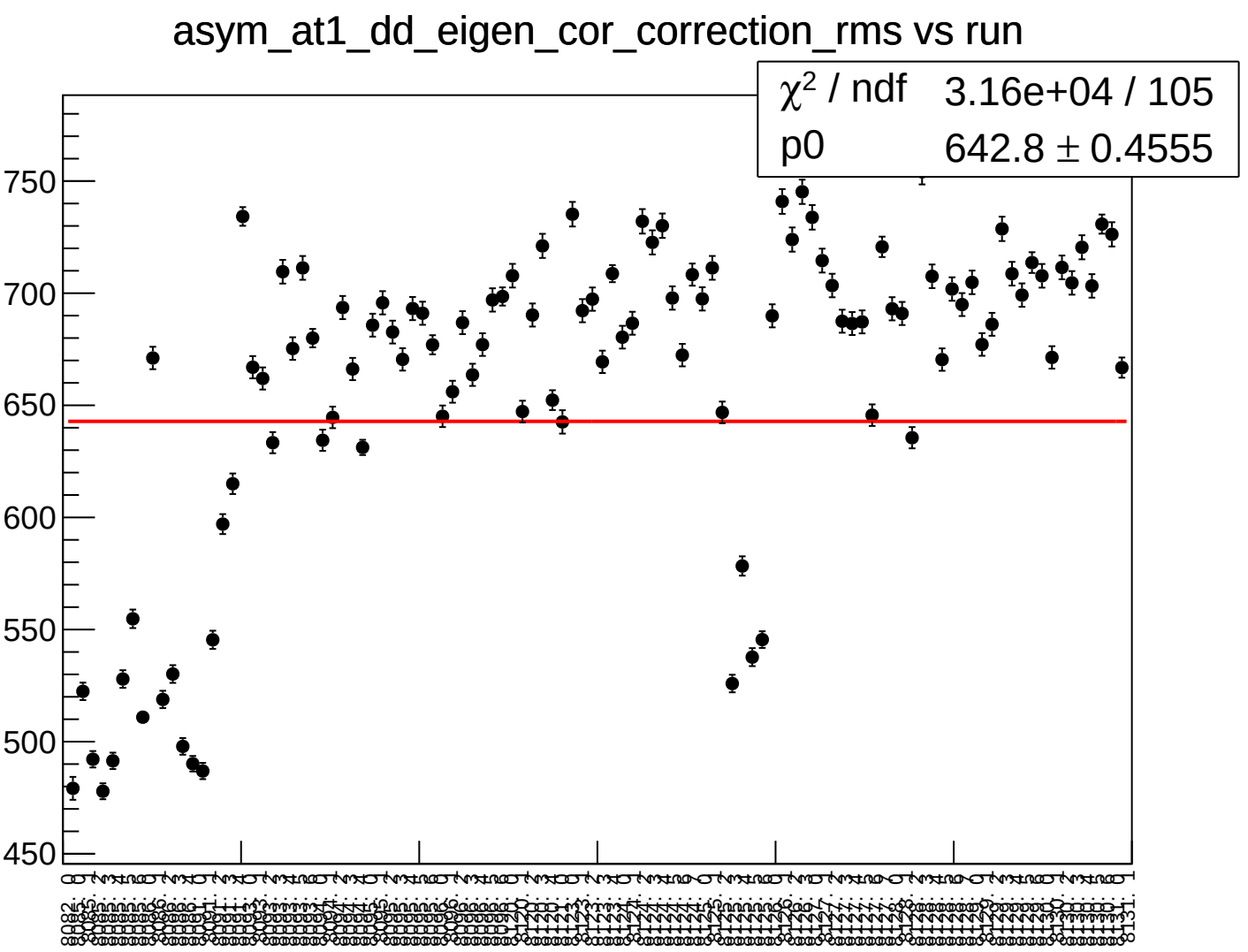

asym_at1_dd_cor_correction_rms vs run
χ² / ndf 3.16e+04 / 105
p0 642.8 ± 0.4555
750
700
650
600
550
500
450

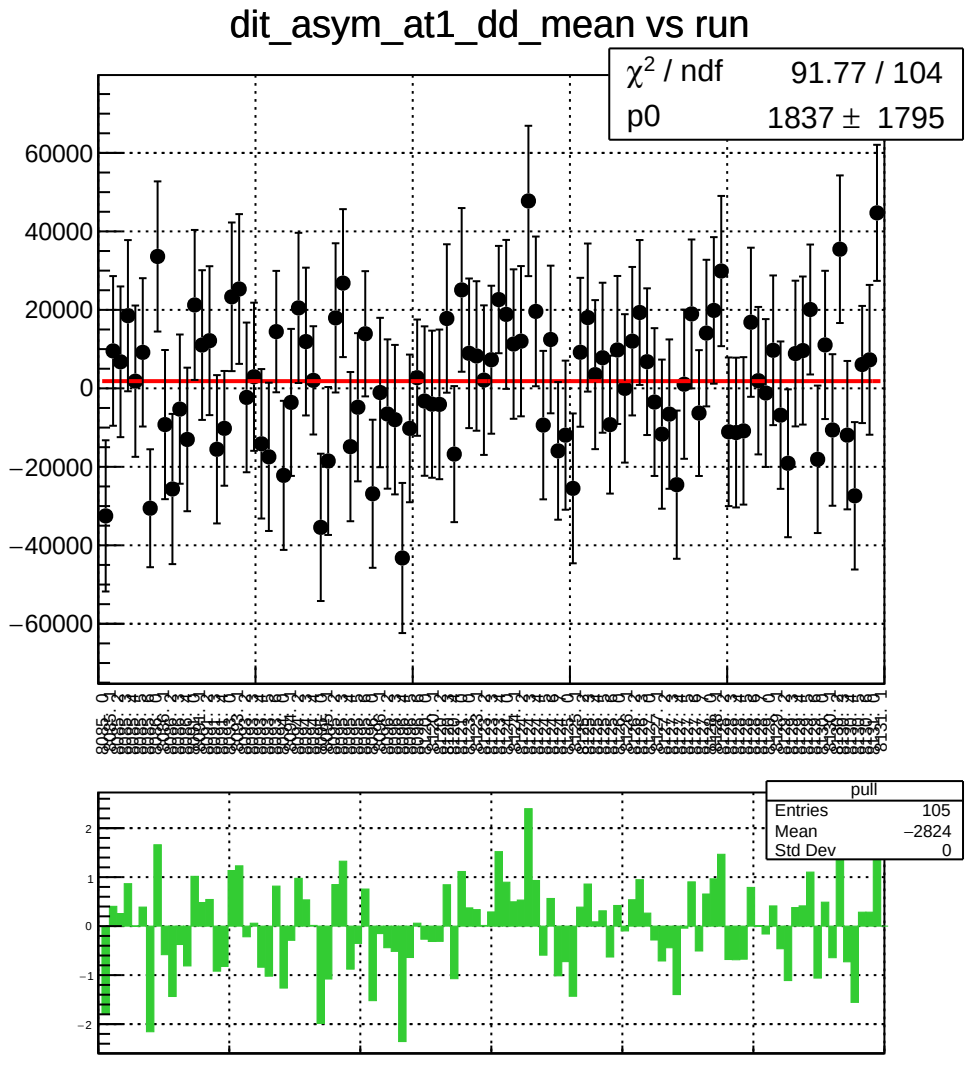

eigen_cor_asym_at1_dd_mean vs run
χ² / ndf 89.94 / 105
p0 1804 ± 1787
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean −9588
Std Dev 0
2
1
0
−1
−2

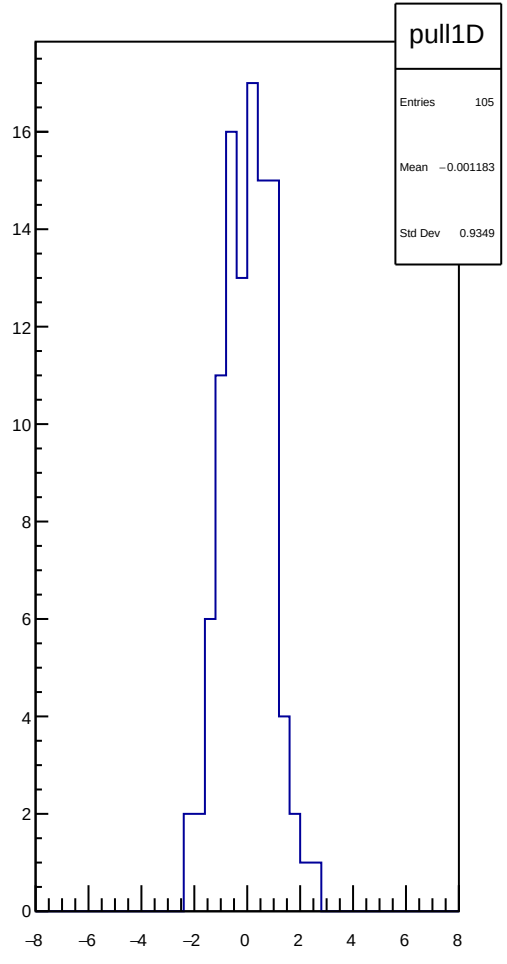

pull1D
Entries 106
Mean −0.0003348
Std Dev 0.9212
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

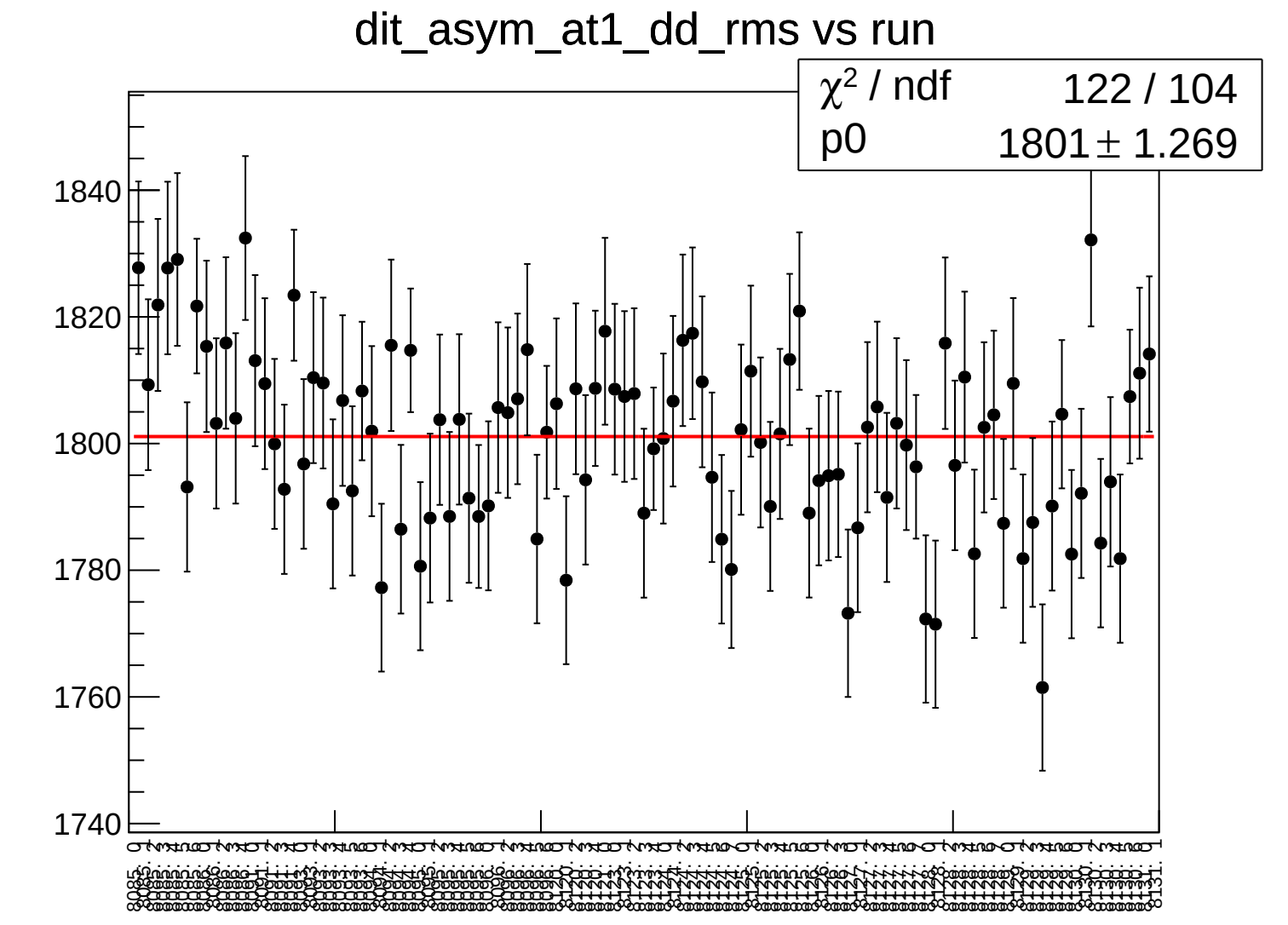

eigen_cor_asym_at1_dd_rms vs run
χ² / ndf 100.1 / 105
p0 1797 ± 1.264
1840
1820
1800
1780
1760
1740

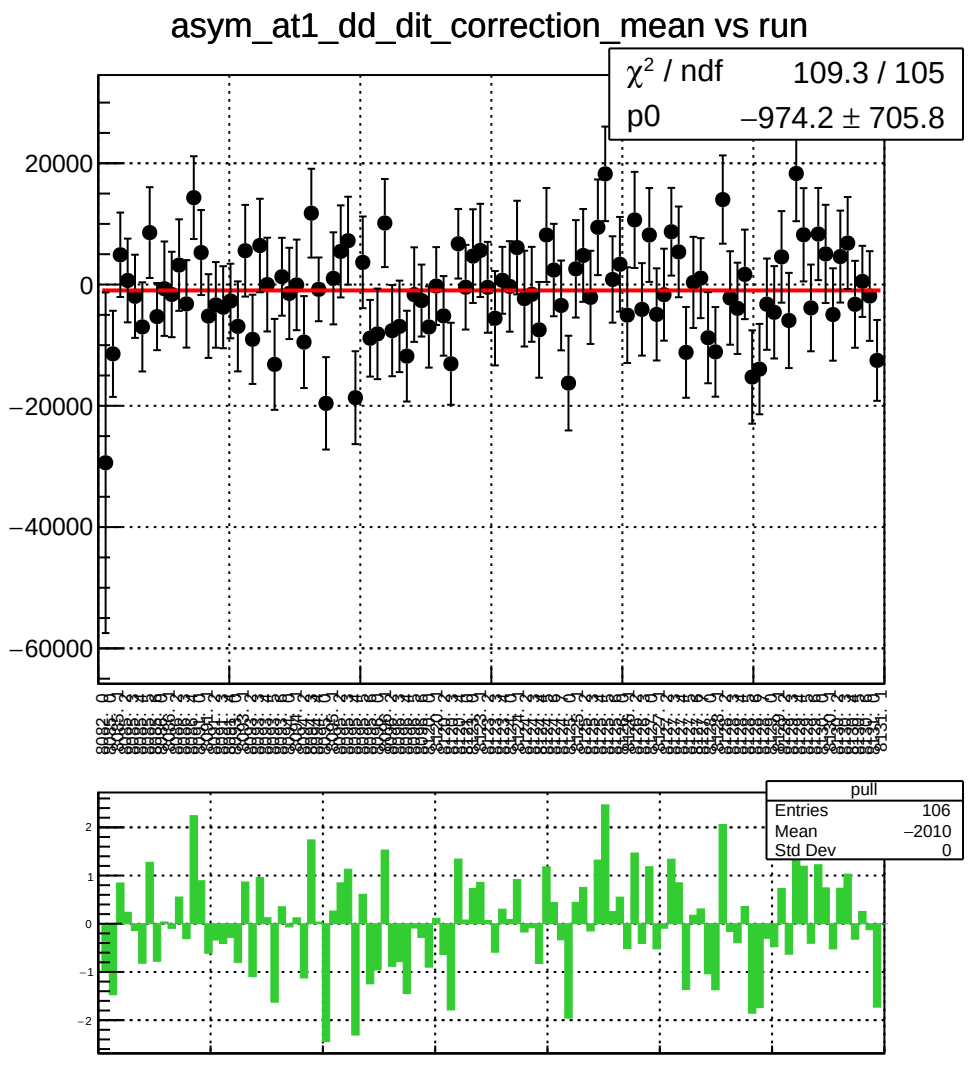

asym_at1_dd_eigen_cor_correction_mean vs run
χ² / ndf 113.7 / 105
p0 −890.6 ± 644.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 106
Mean −148.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 106
Mean −0.01762
Std Dev 1.035
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

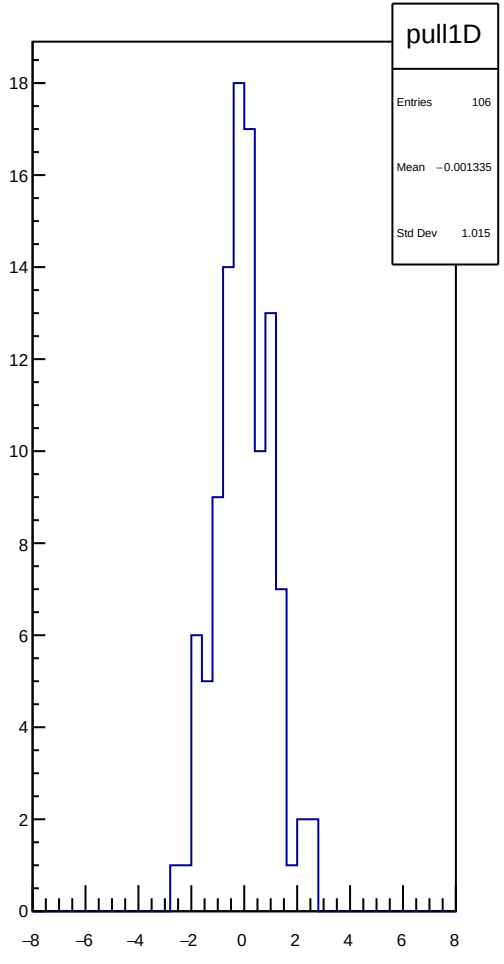

asym_at1_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.16e+04 / 105
p0 642.8 ± 0.4555
750
700
650
600
550
500
450

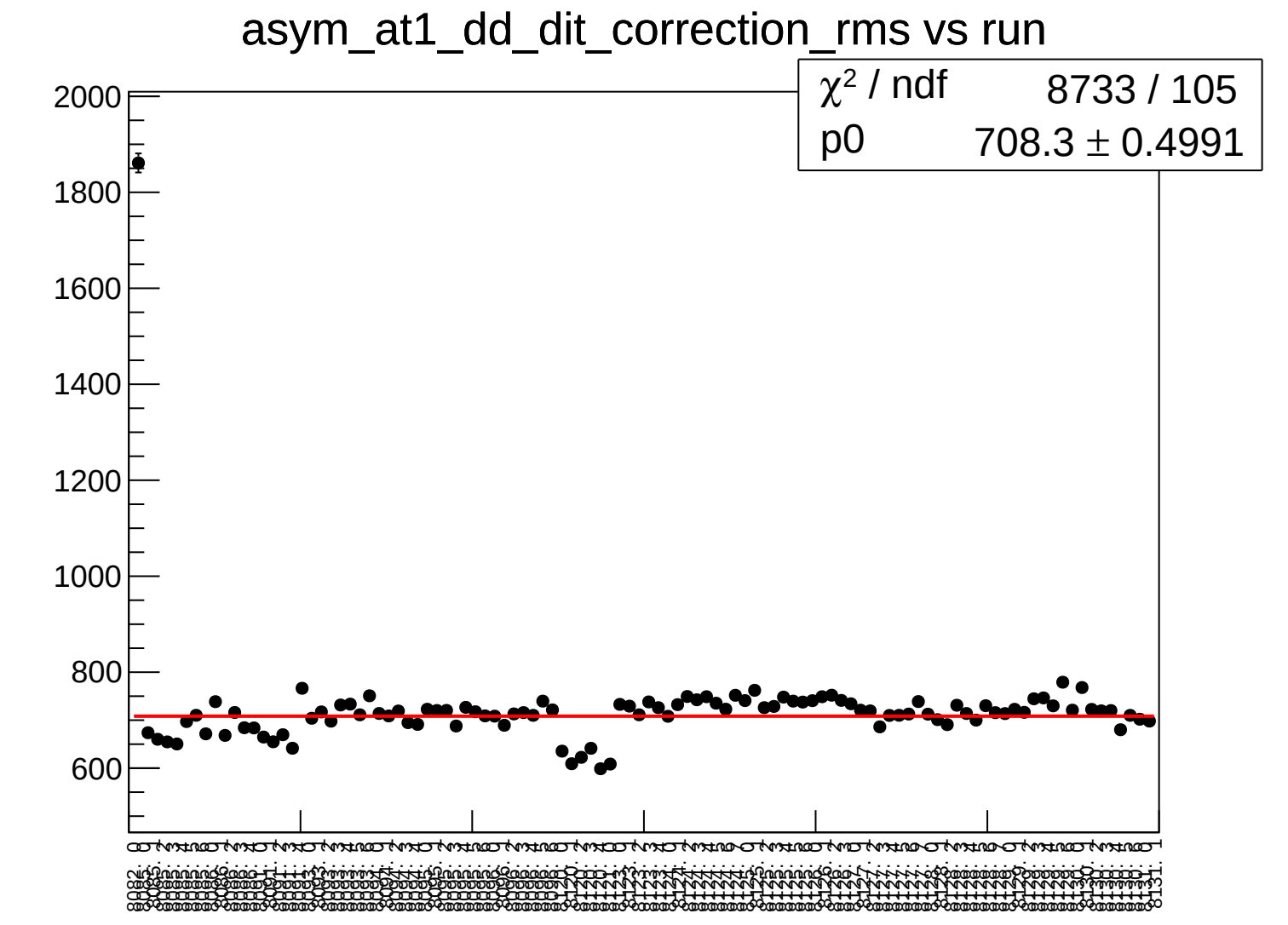

dit_asym_at1_dd_mean vs run
χ² / ndf 91.77 / 104
p0 1837 ± 1795
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean −2824
Std Dev 0
2
1
0
−1
−2

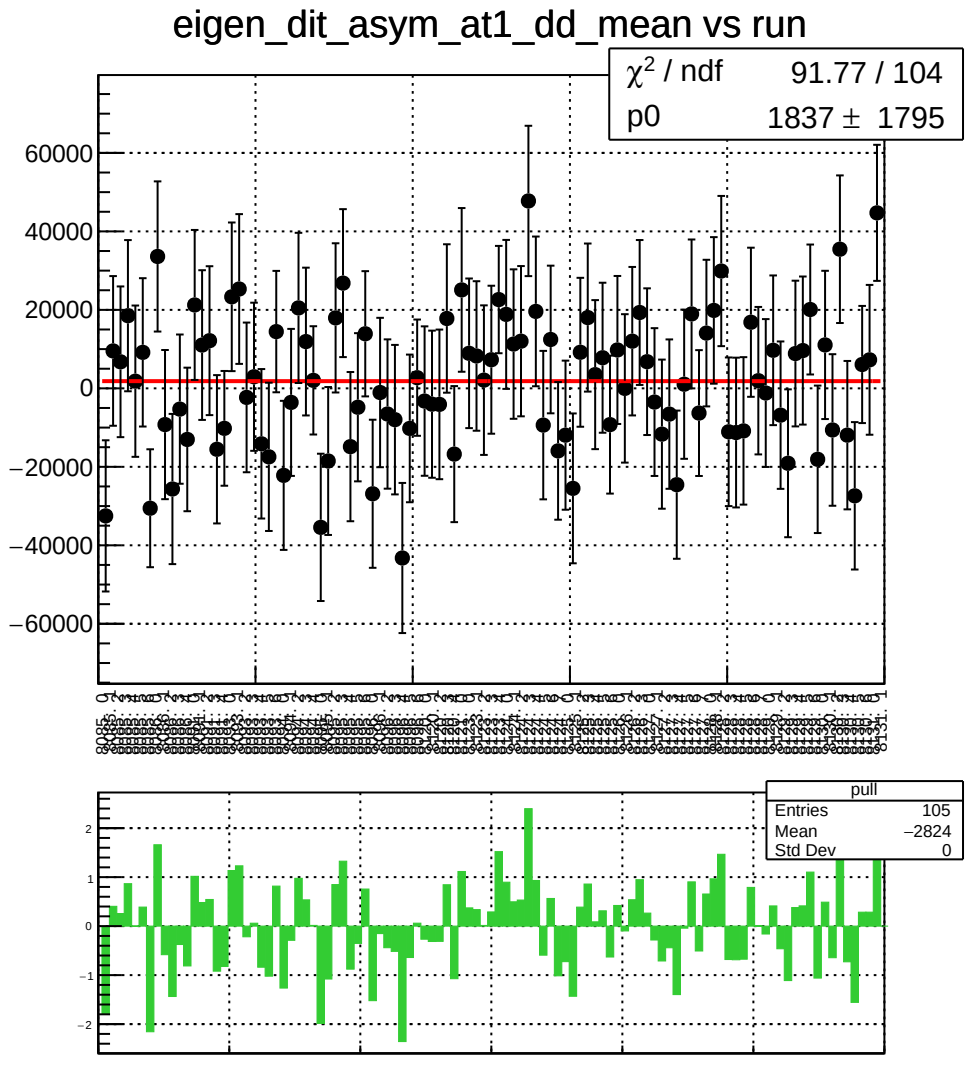

pull1D
Entries 105
Mean −0.001183
Std Dev 0.9349
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

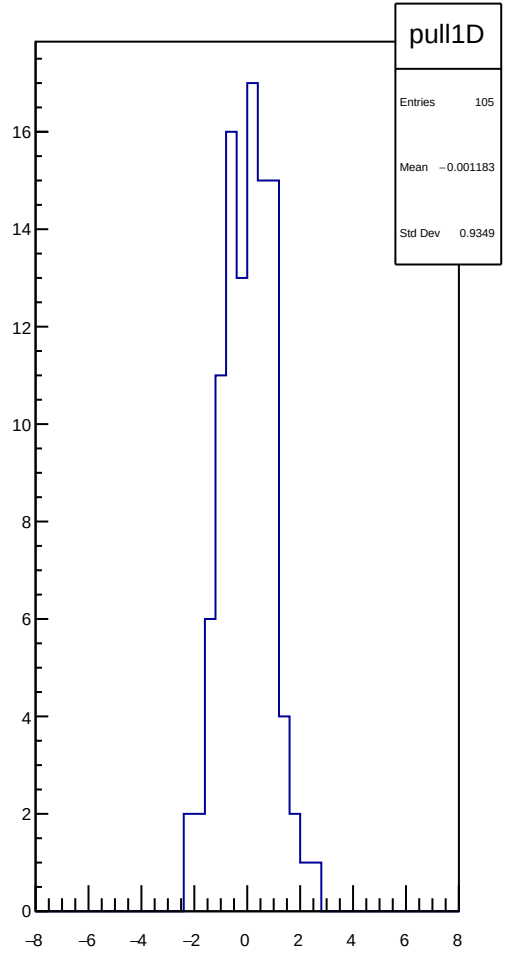

dit_asym_at1_dd_rms vs run
χ² / ndf 122 / 104
p0 1801 ± 1.269
1840
1820
1800
1780
1760
1740

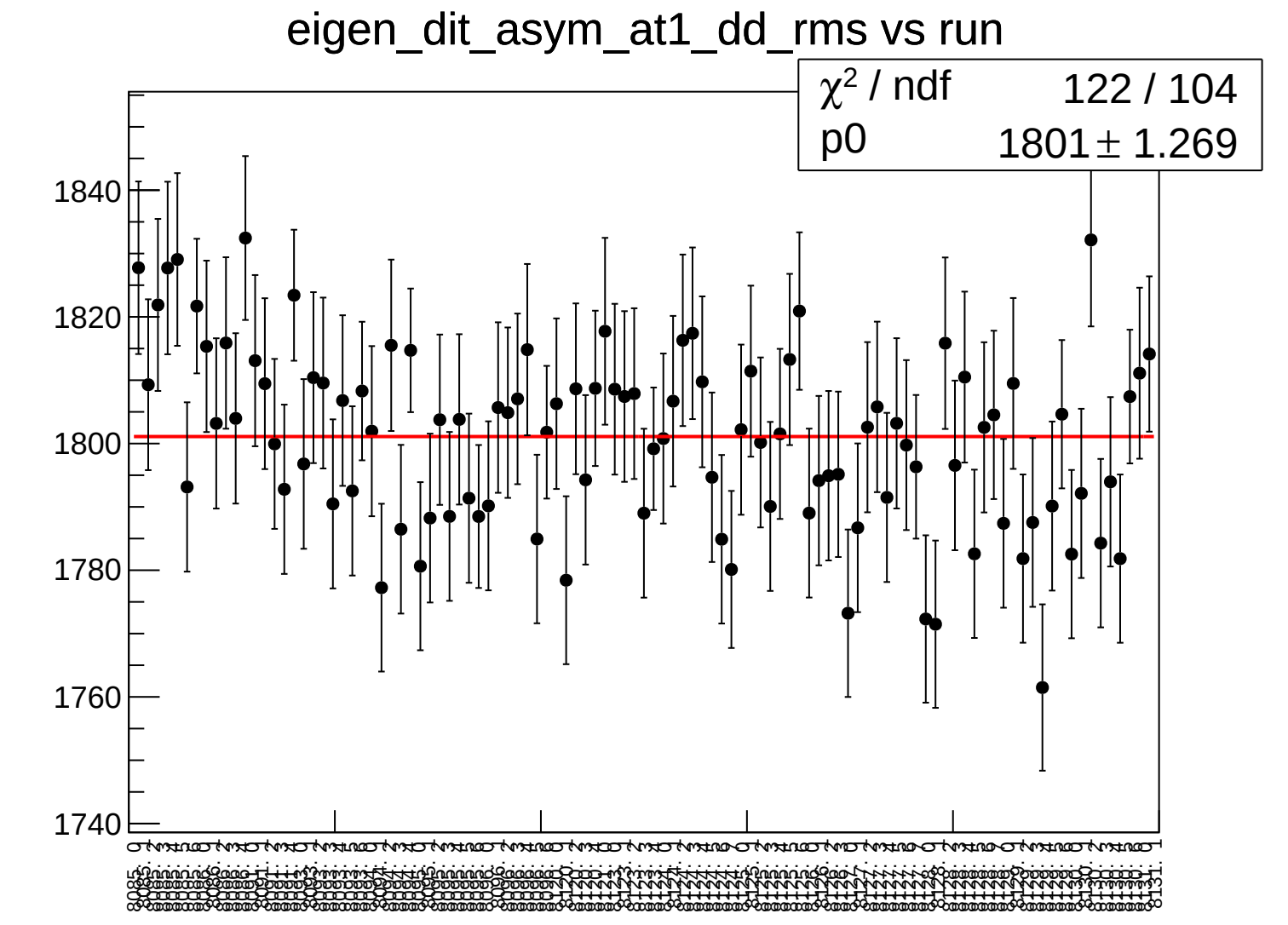

asym_at1_dd_dit_correction_mean vs run
χ² / ndf 109.3 / 105
p0 −974.2 ± 705.8
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean −2010
Std Dev 0
2
1
0
−1
−2

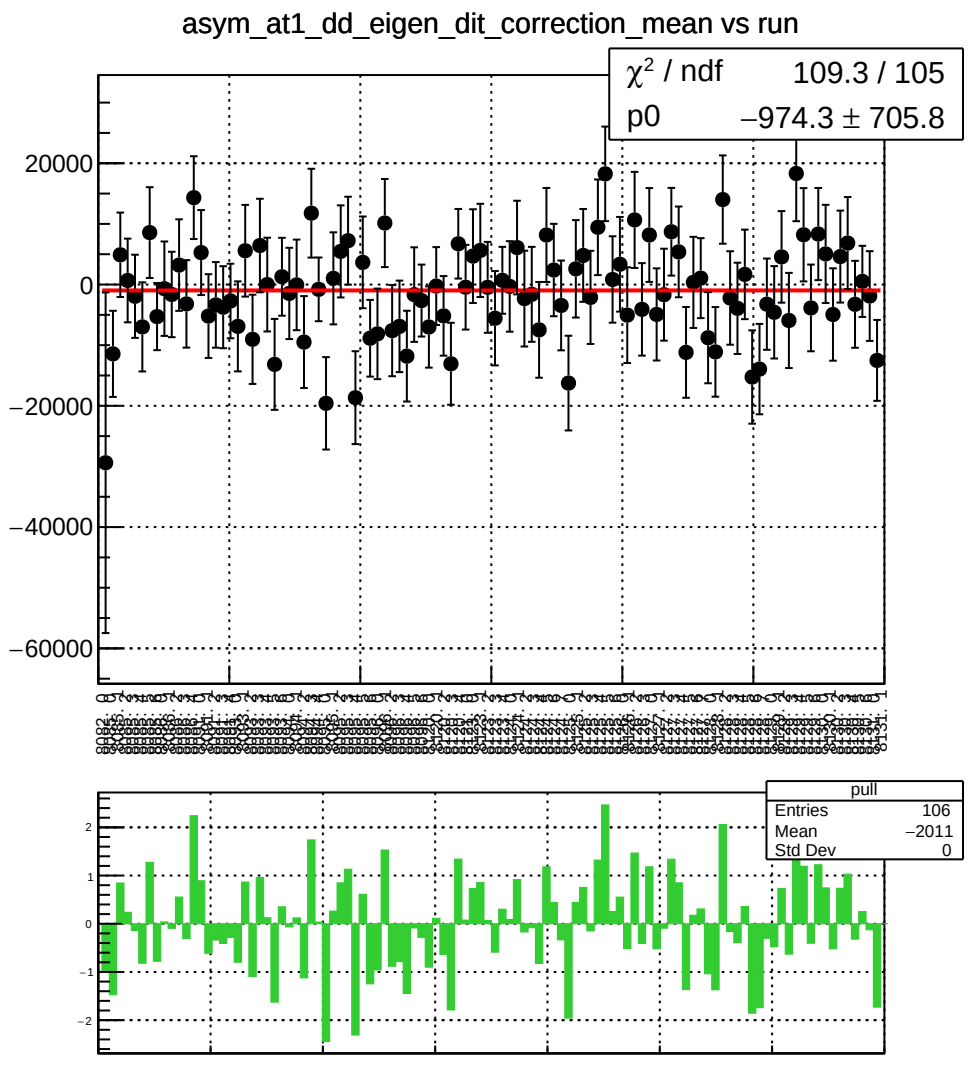

pull1D
Entries 106
Mean −0.001335
Std Dev 1.015
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

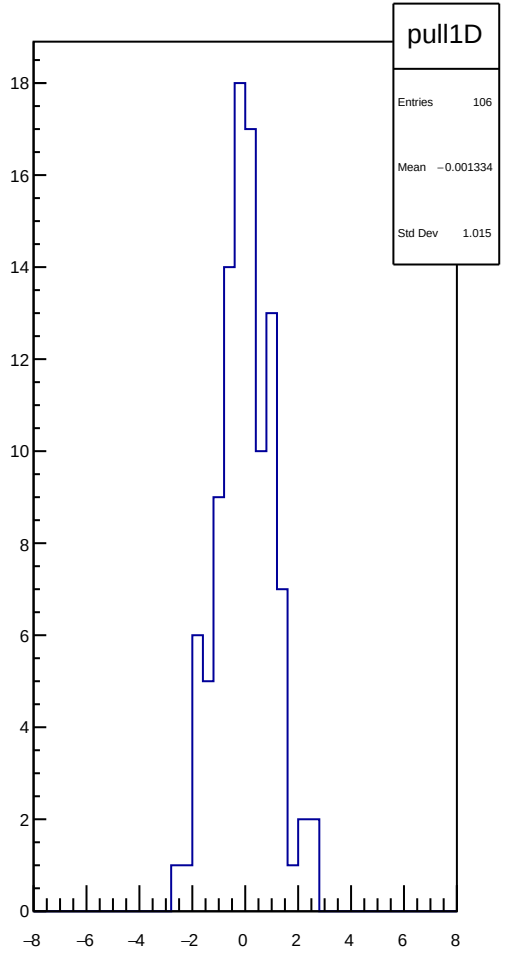

asym_at1_dd_dit_correction_rms vs run
χ² / ndf 8733 / 105
p0 708.3 ± 0.4991
2000
1800
1600
1400
1200
1000
800
600

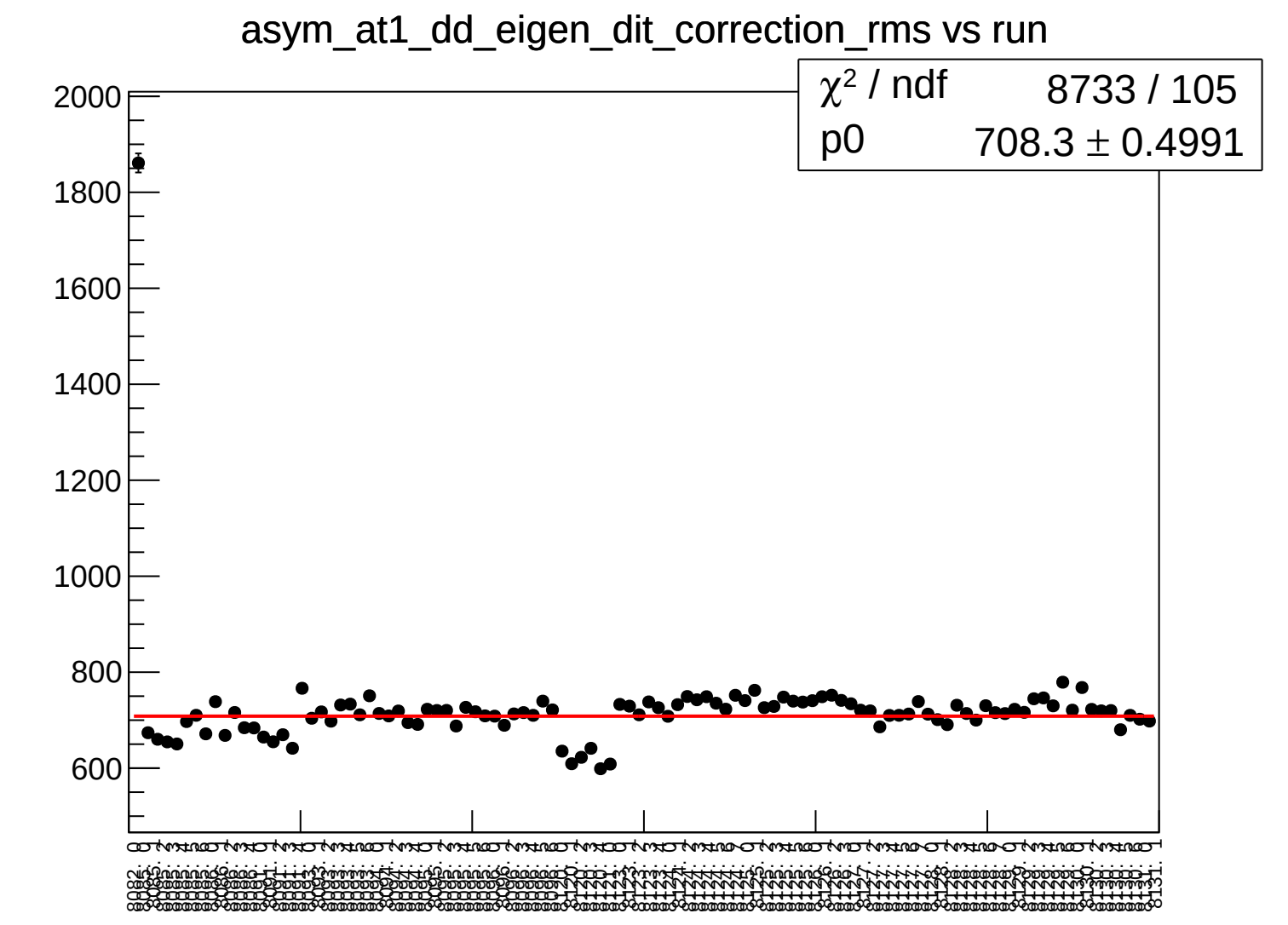

eigen_dit_asym_at1_dd_mean vs run
χ² / ndf 91.77 / 104
p0 1837 ± 1795
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean −2824
Std Dev 0
2
1
0
−1
−2

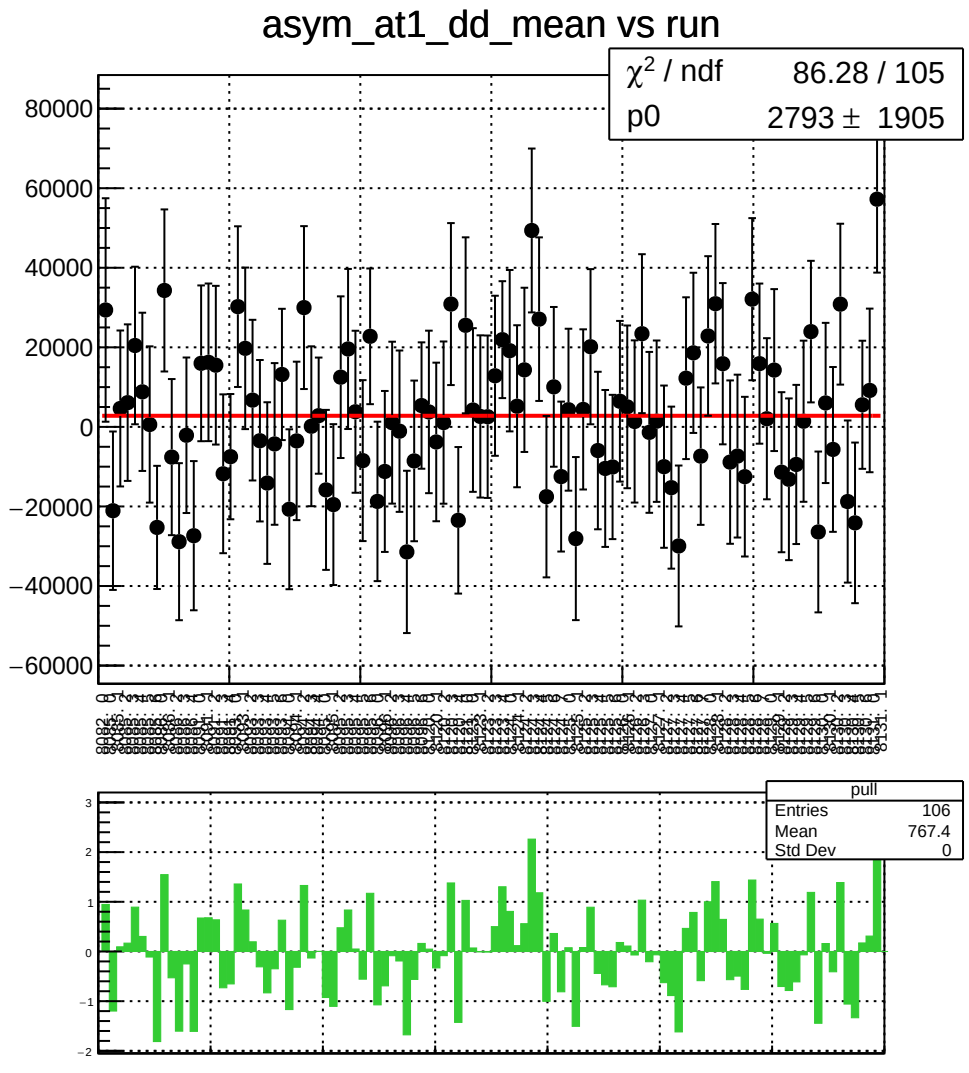

pull1D
Entries 105
Mean −0.001183
Std Dev 0.9349
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

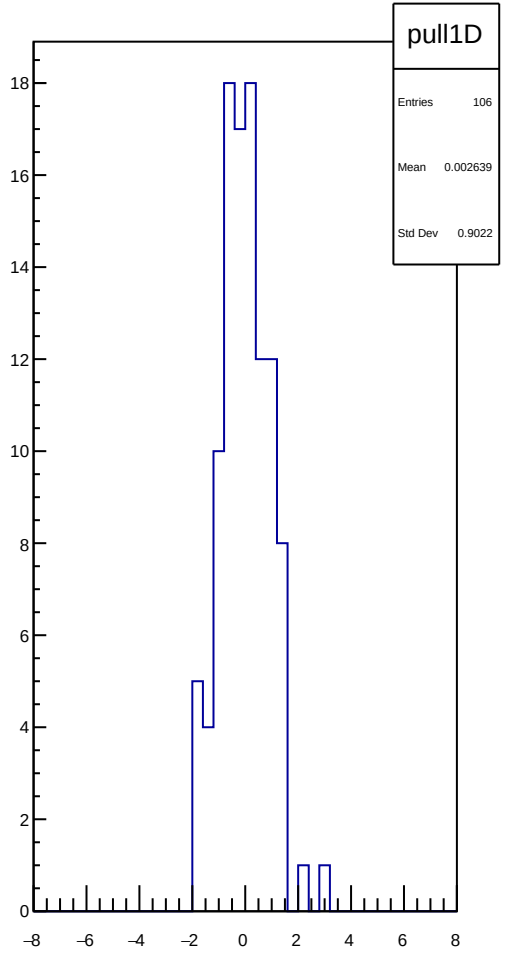

eigen_dit_asym_at1_dd_rms vs run
χ² / ndf 122 / 104
p0 1801 ± 1.269
1840
1820
1800
1780
1760
1740

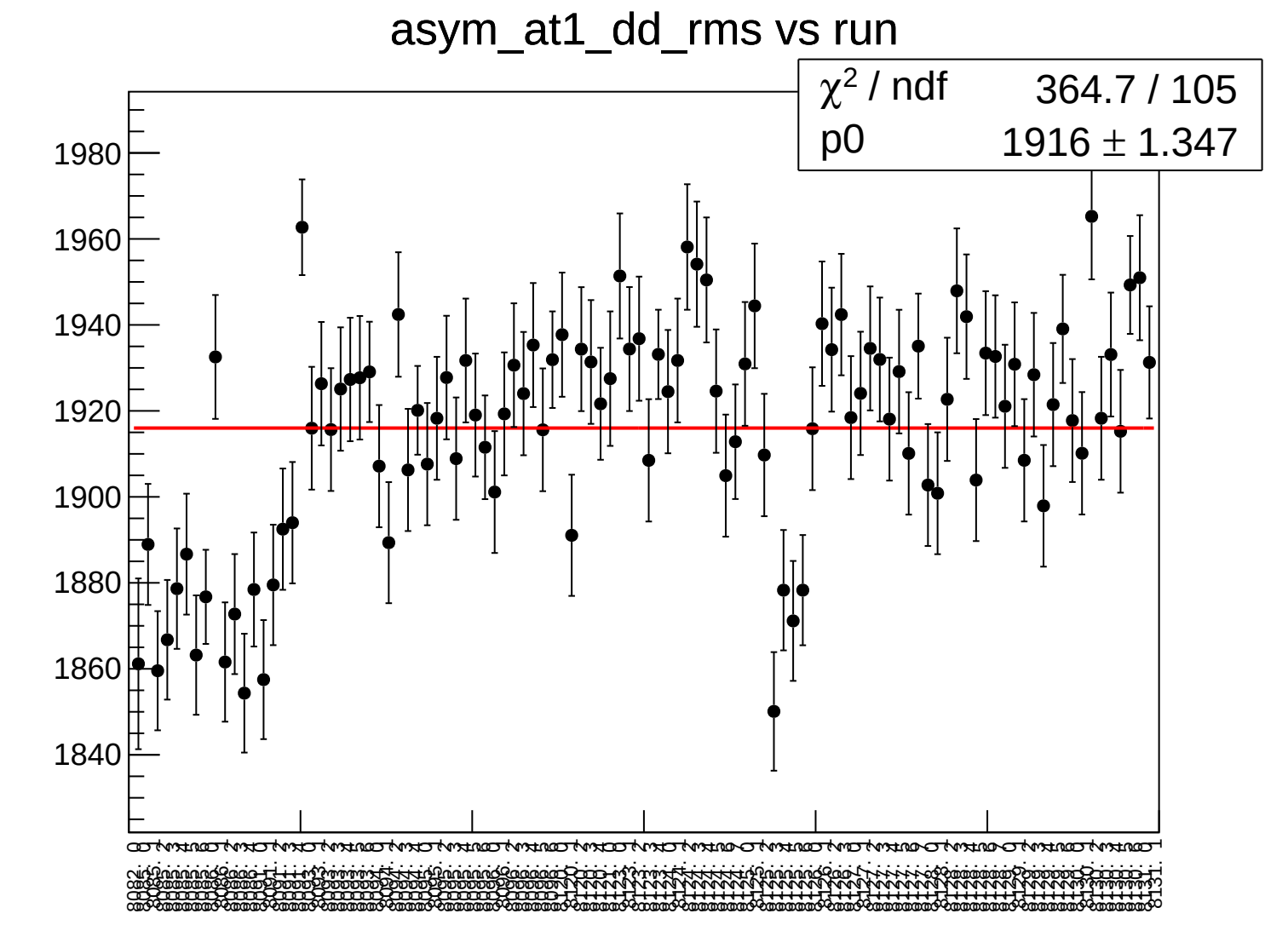

asym_at1_dd_eigen_dit_correction_mean vs run
χ² / ndf 109.3 / 105
p0 −974.3 ± 705.8
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean −2011
Std Dev 0
2
1
0
−1
−2

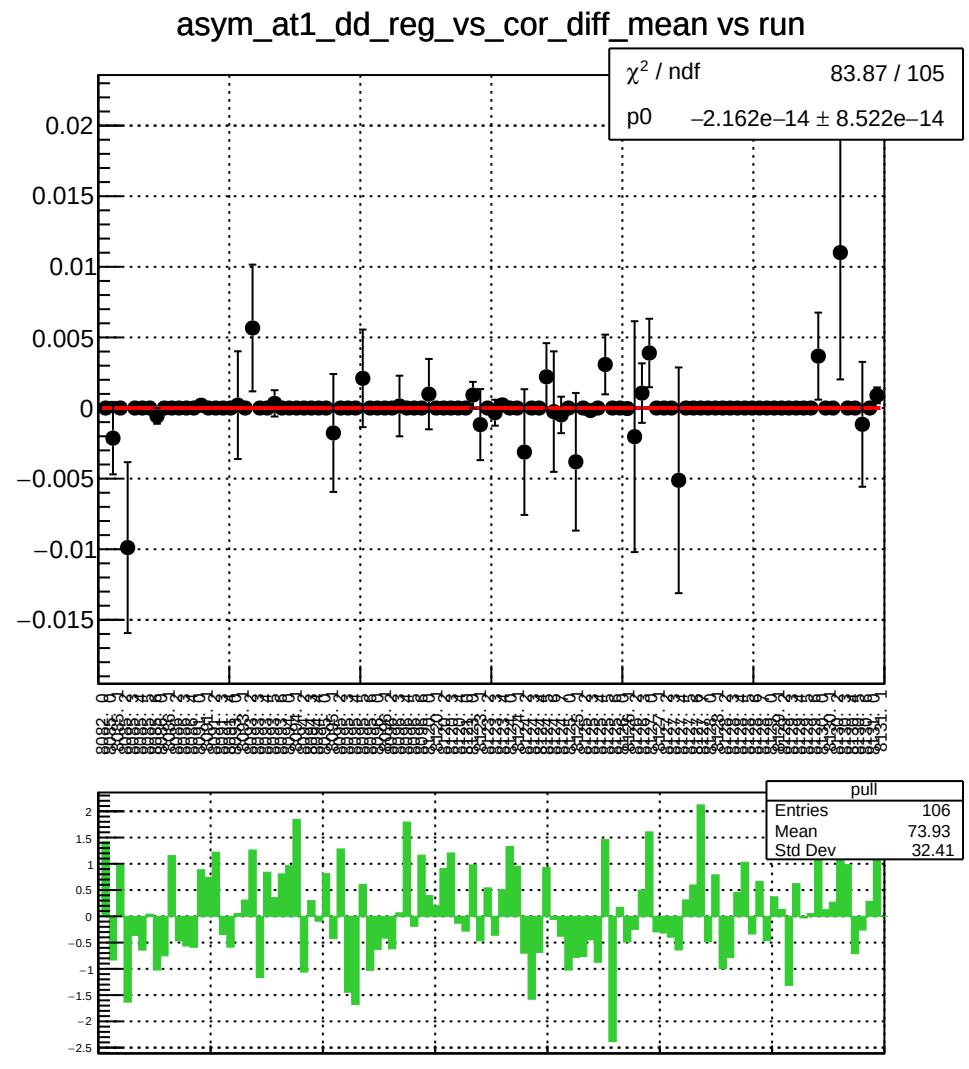

pull1D
Entries 106
Mean −0.001334
Std Dev 1.015
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

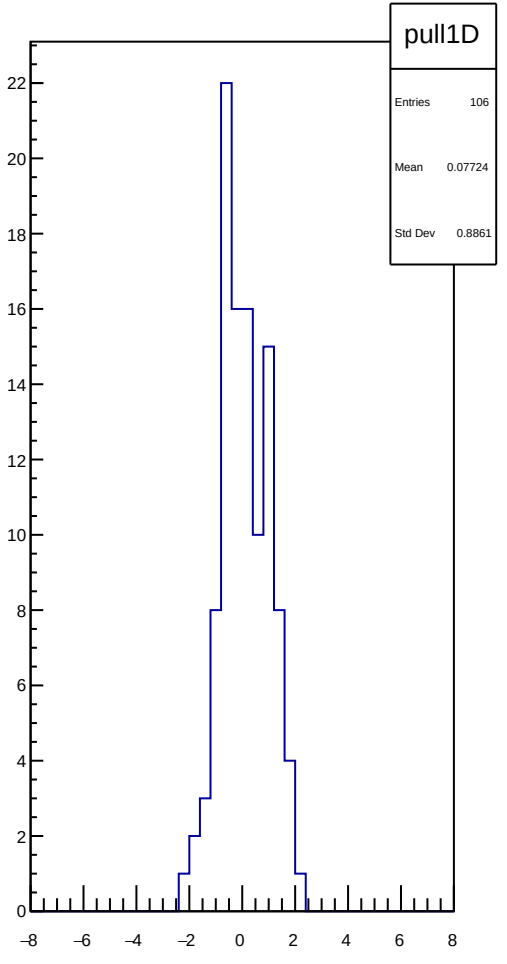

asym_at1_dd_eigen_dit_correction_rms vs run
χ² / ndf 8733 / 105
p0 708.3 ± 0.4991
2000
1800
1600
1400
1200
1000
800
600

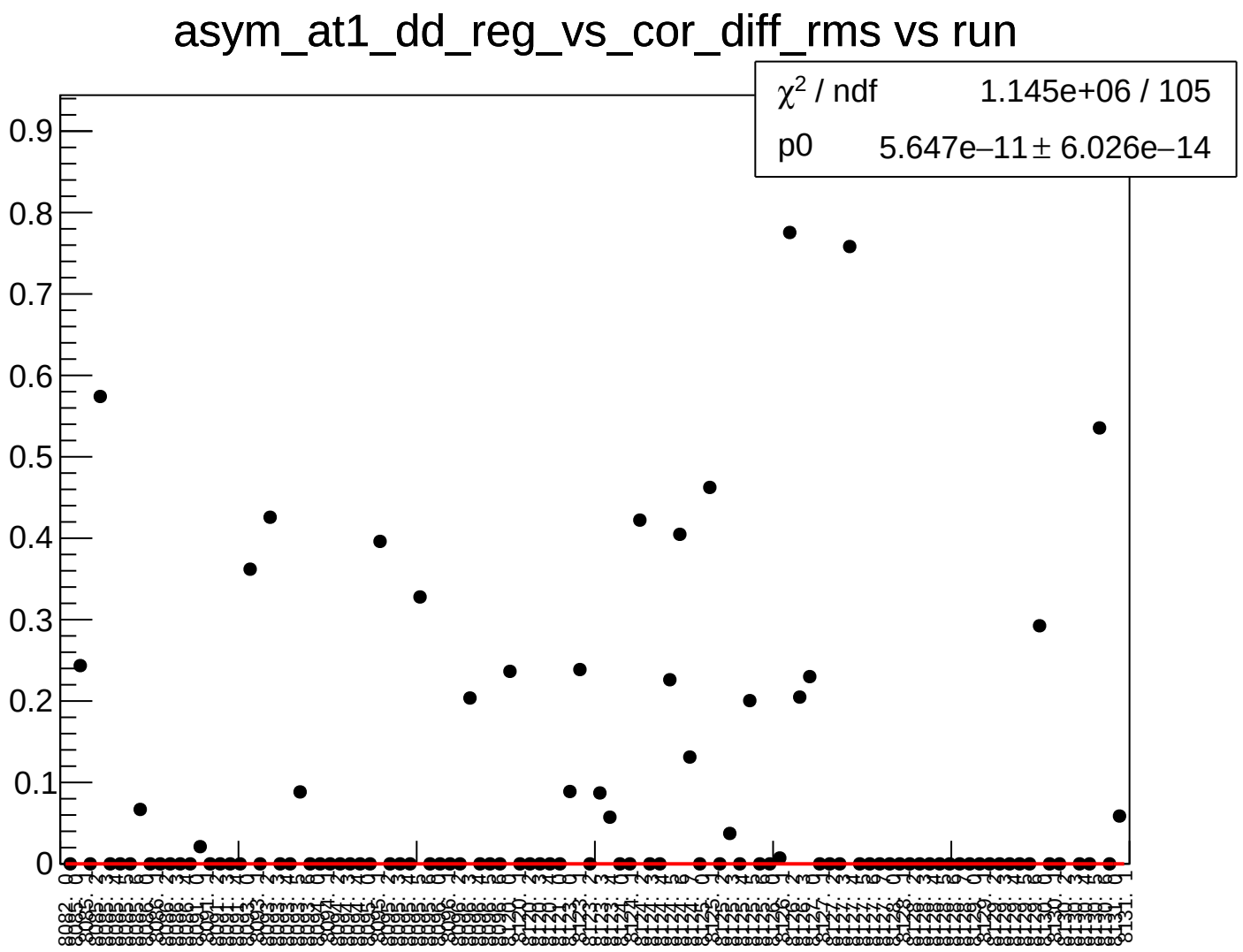

asym_at1_dd_mean vs run
χ² / ndf 86.28 / 105
p0 2793 ± 1905
pull
Entries 106
Mean 767.4
Std Dev 0

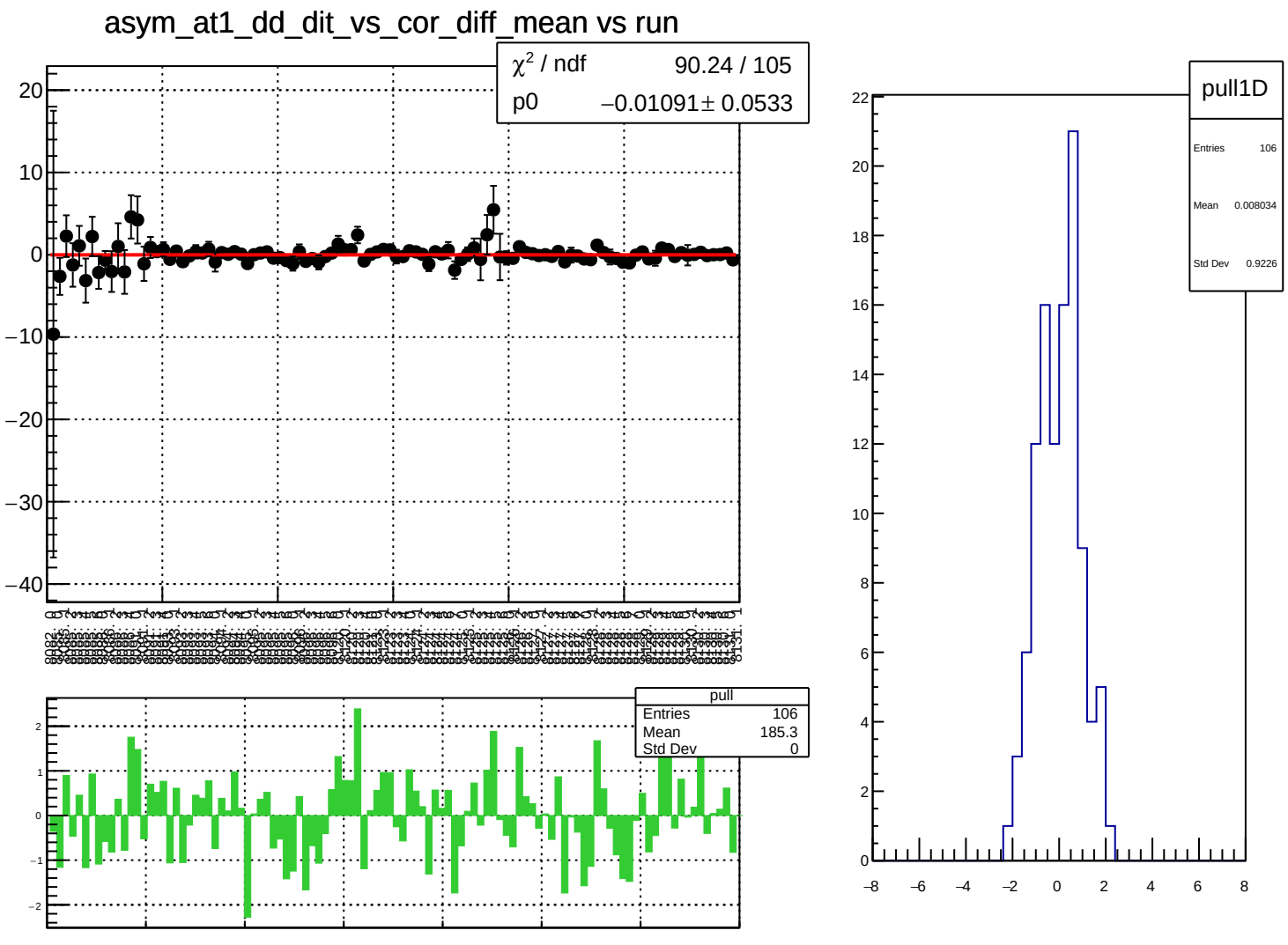

pull1D
Entries 106
Mean 0.002639
Std Dev 0.9022

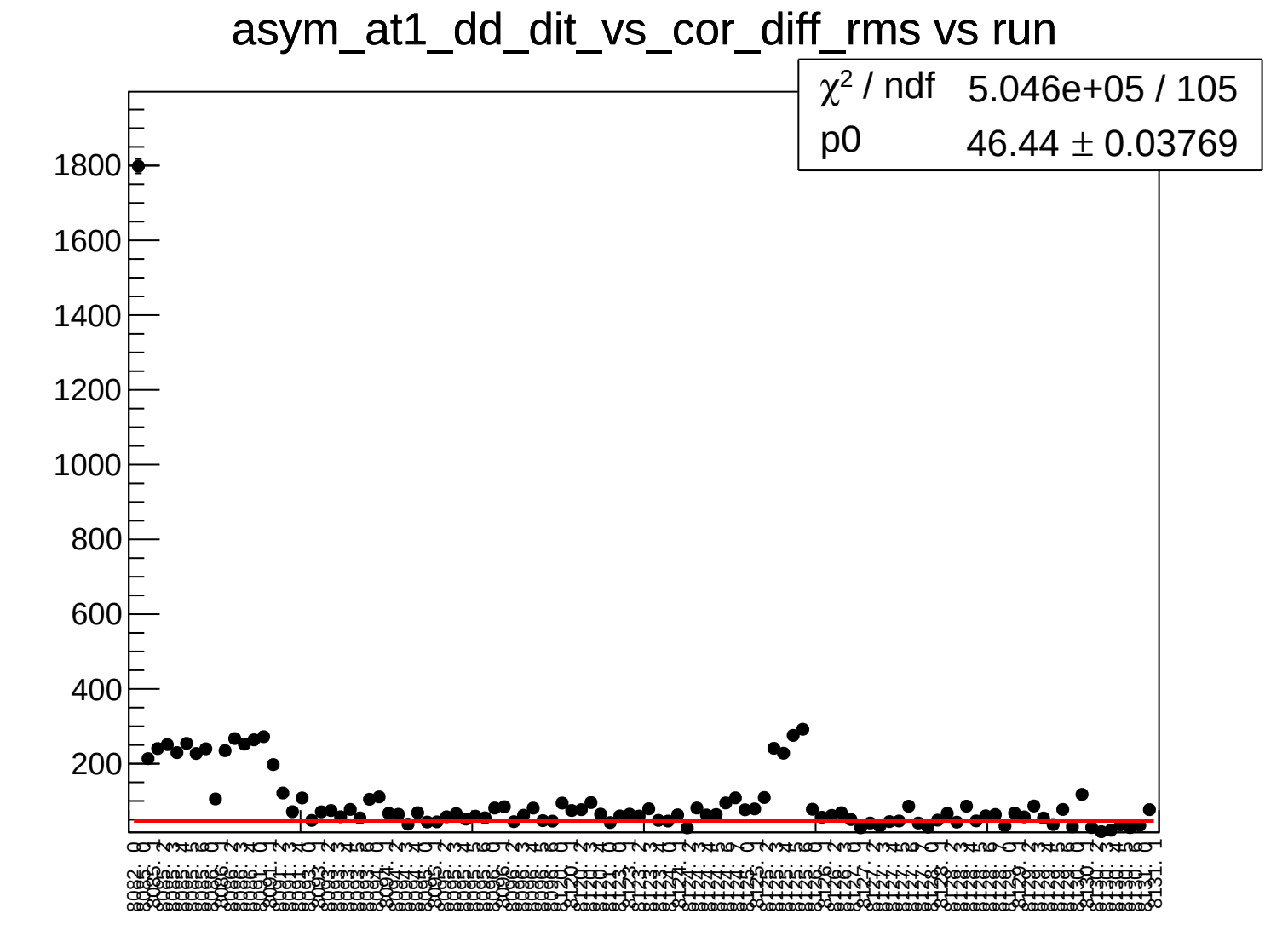

asym_at1_dd_rms vs run
$\chi^2$ / ndf 364.7 / 105
p0 1916 ± 1.347
1980
1960
1940
1920
1900
1880
1860
1840

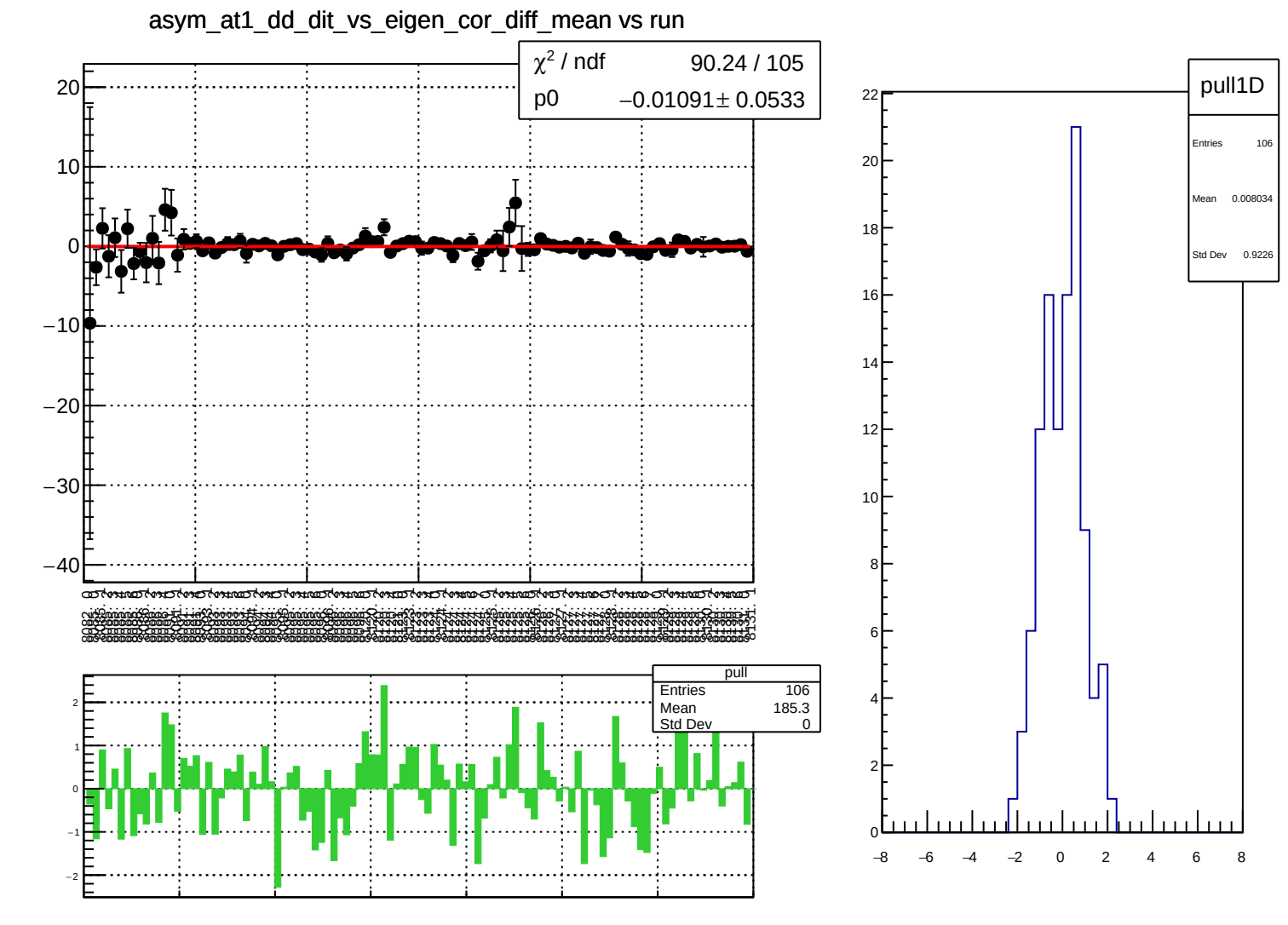

asym_at1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 83.87 / 105
p0 −2.162e−14 ± 8.522e−14
pull
Entries 106
Mean 73.93
Std Dev 32.41

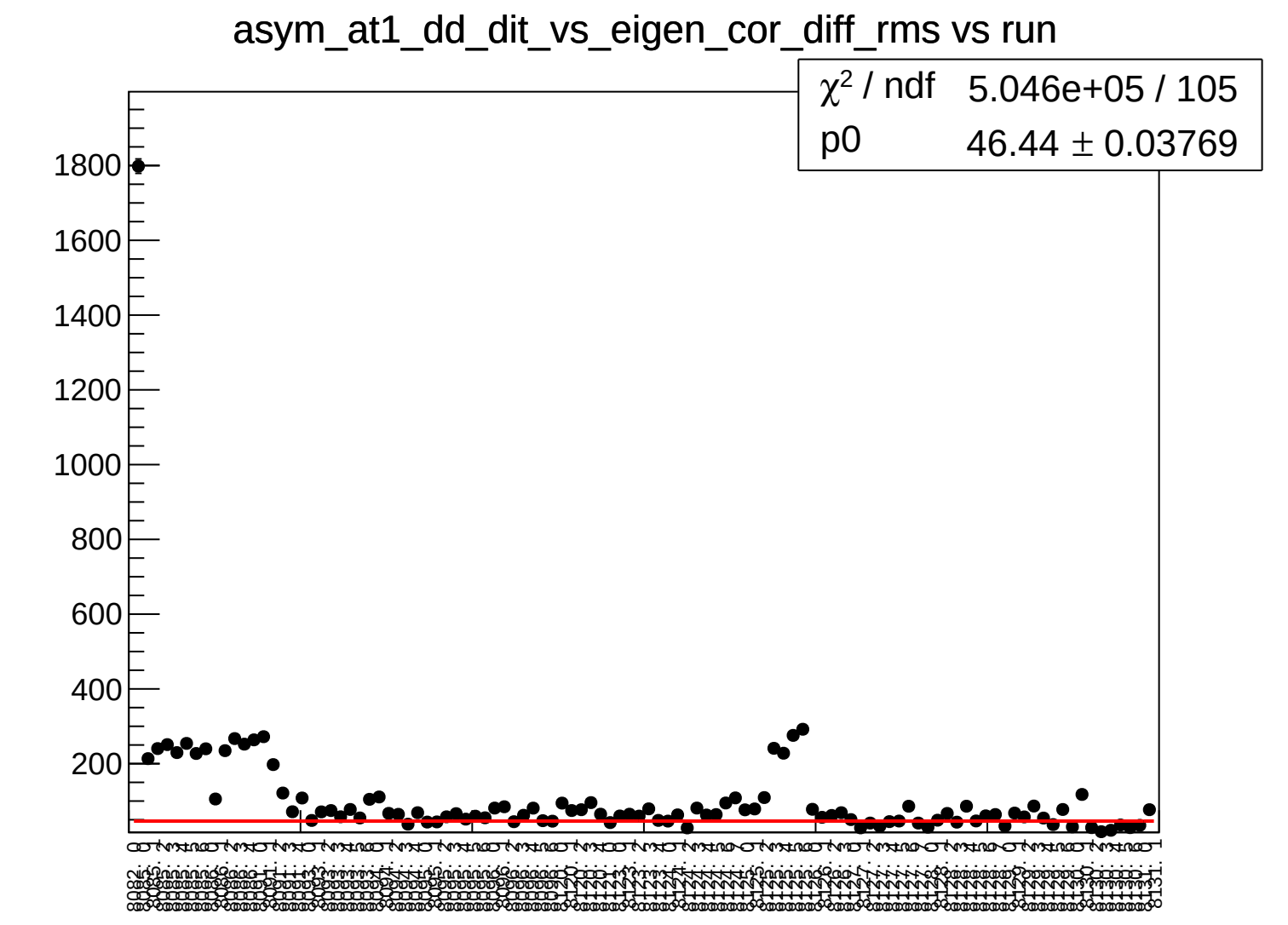

pull1D
Entries 106
Mean 0.07724
Std Dev 0.8861

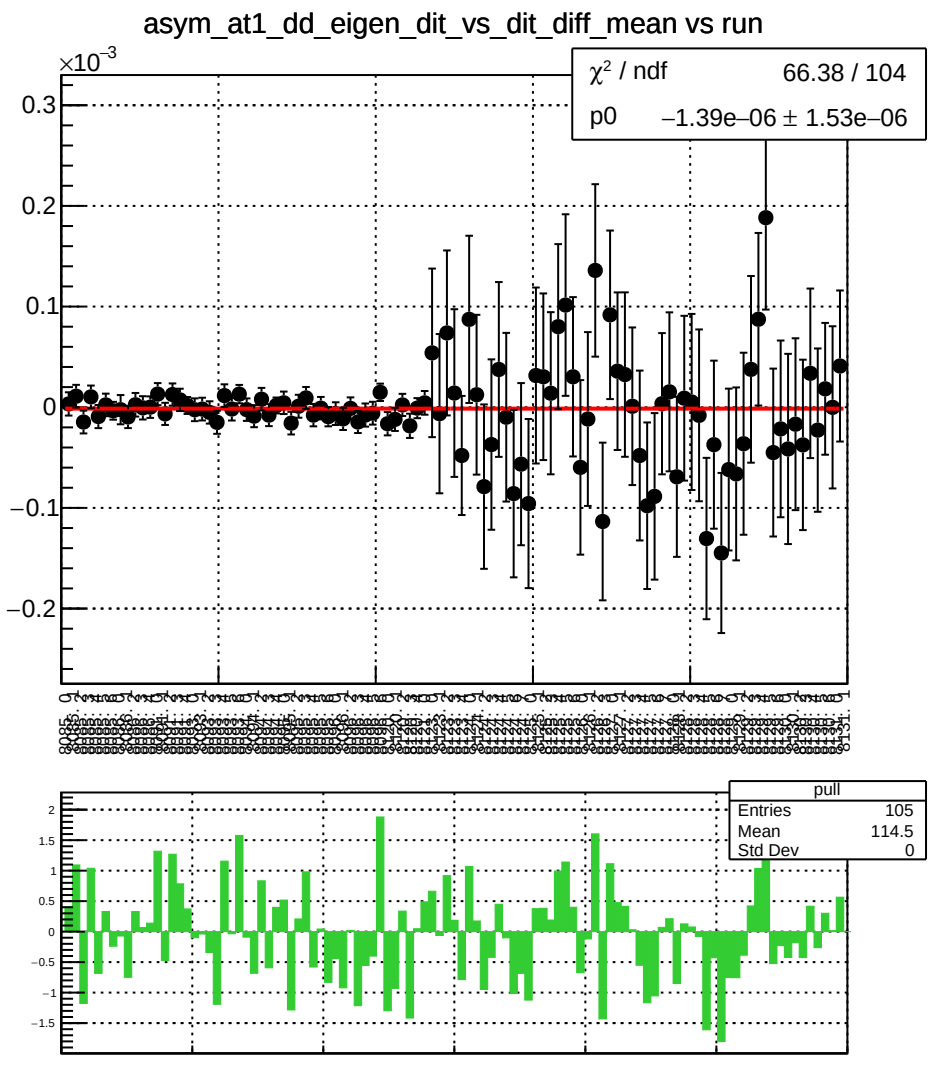

asym_at1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.145e+06 / 105
p0 5.647e−11 ± 6.026e−14
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

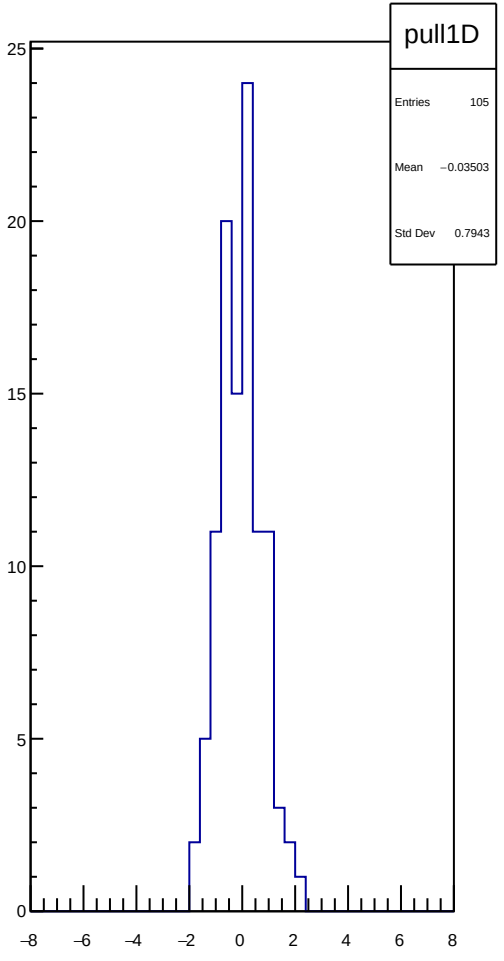

asym_at1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 90.24 / 105
p0 −0.01091 ± 0.0533
pull
Entries 106
Mean 185.3
Std Dev 0
pull1D
Entries 106
Mean 0.008034
Std Dev 0.9226

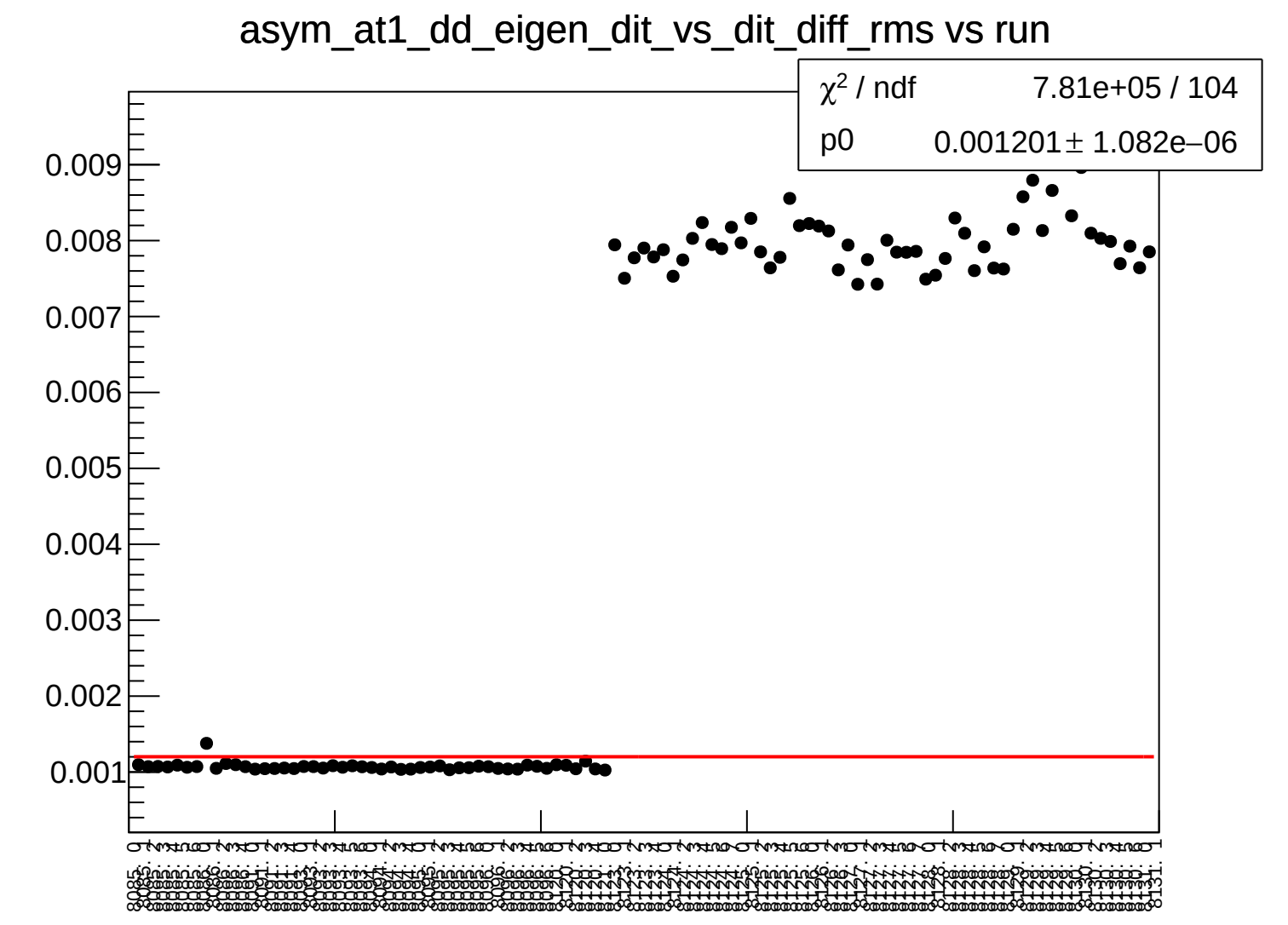

asym_at1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.046e+05 / 105
p0 46.44 ± 0.03769
1800
1600
1400
1200
1000
800
600
400
200

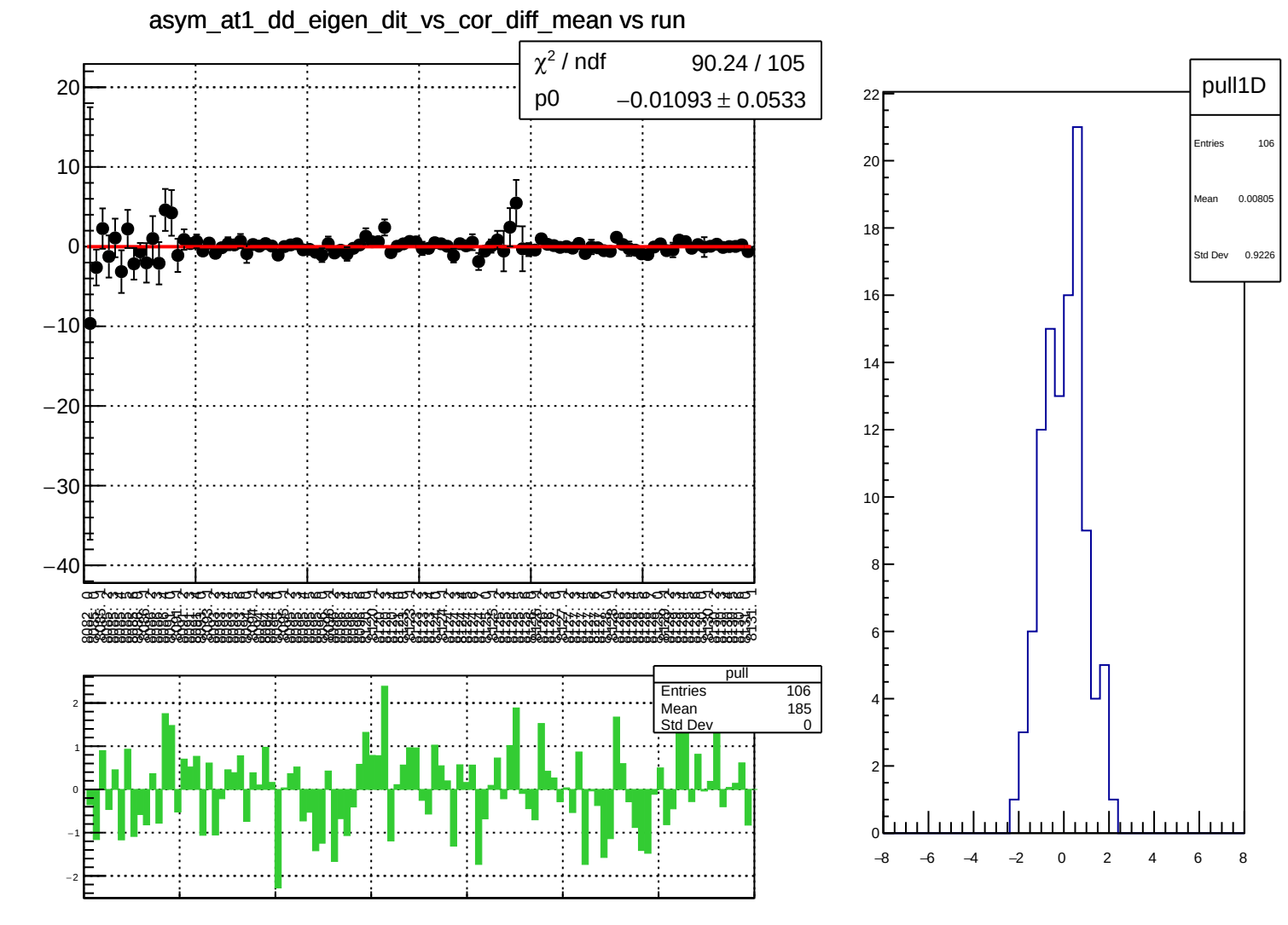

asym_at1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.24 / 105
p0 −0.01091 ± 0.0533
pull
Entries 106
Mean 185.3
Std Dev 0
pull1D
Entries 106
Mean 0.008034
Std Dev 0.9226

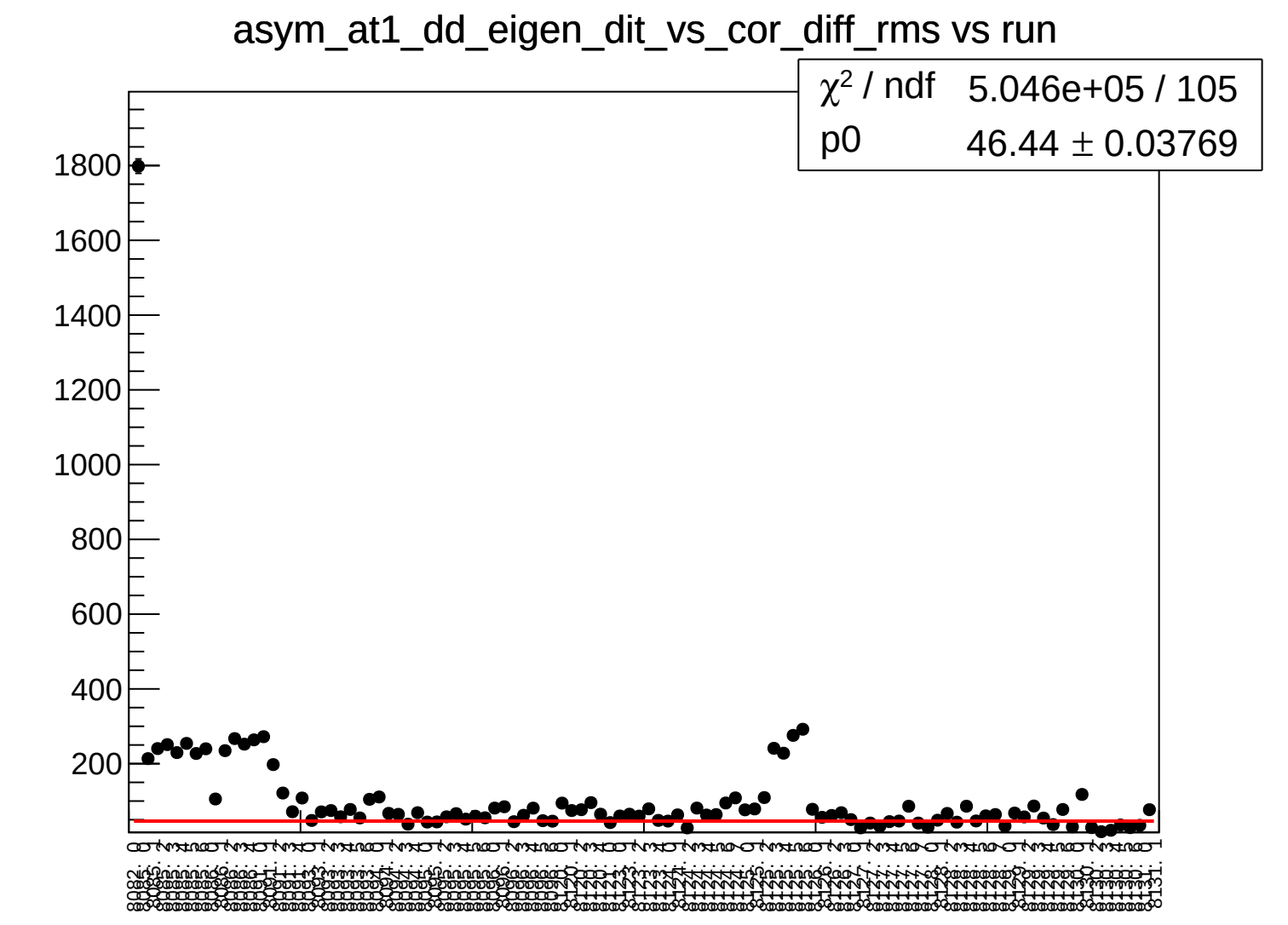

asym_at1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.046e+05 / 105
p0 46.44 ± 0.03769
1800
1600
1400
1200
1000
800
600
400
200

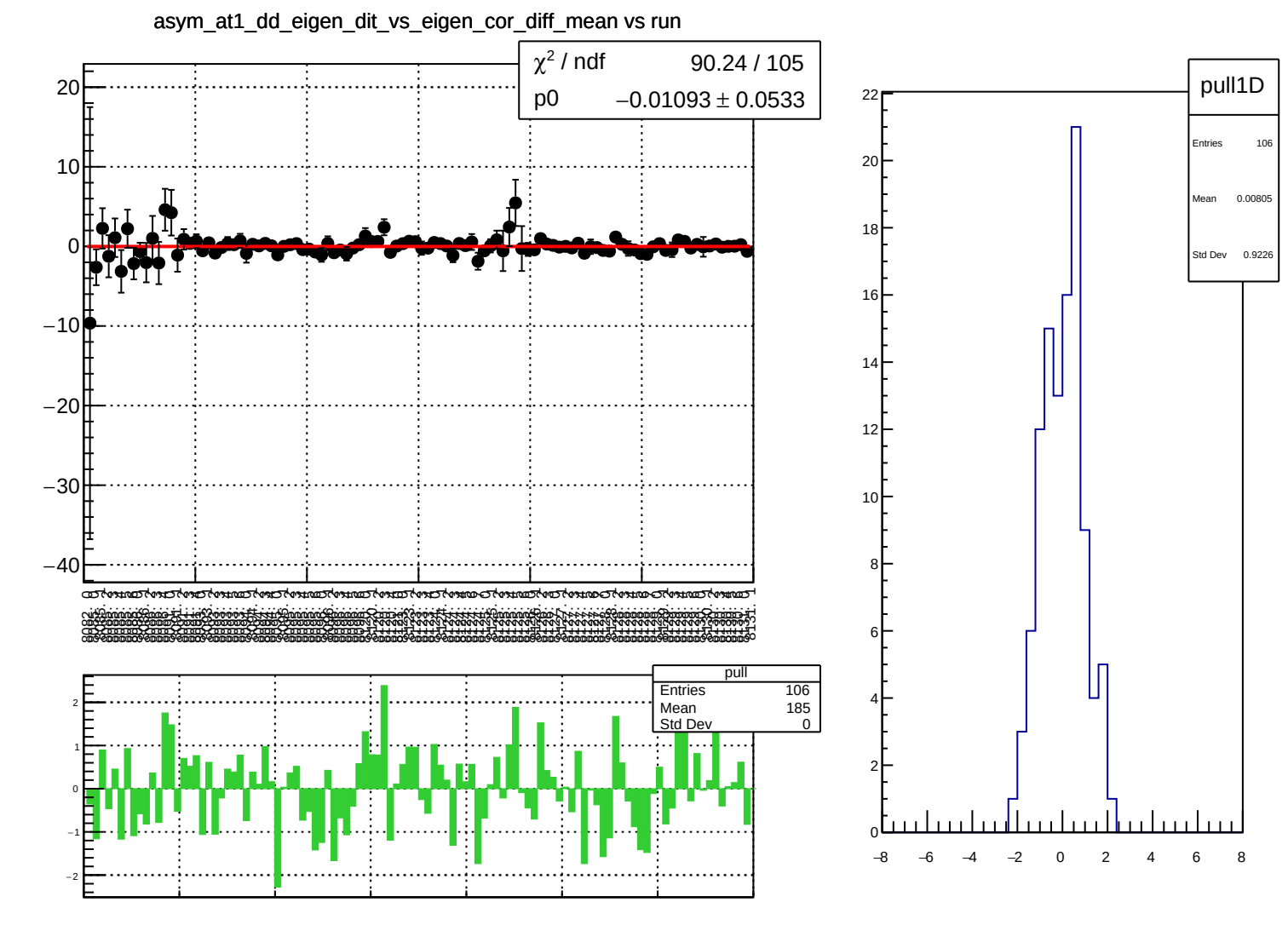

asym_at1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 66.38 / 104
p0 −1.39e−06 ± 1.53e−06
pull
Entries 105
Mean 114.5
Std Dev 0

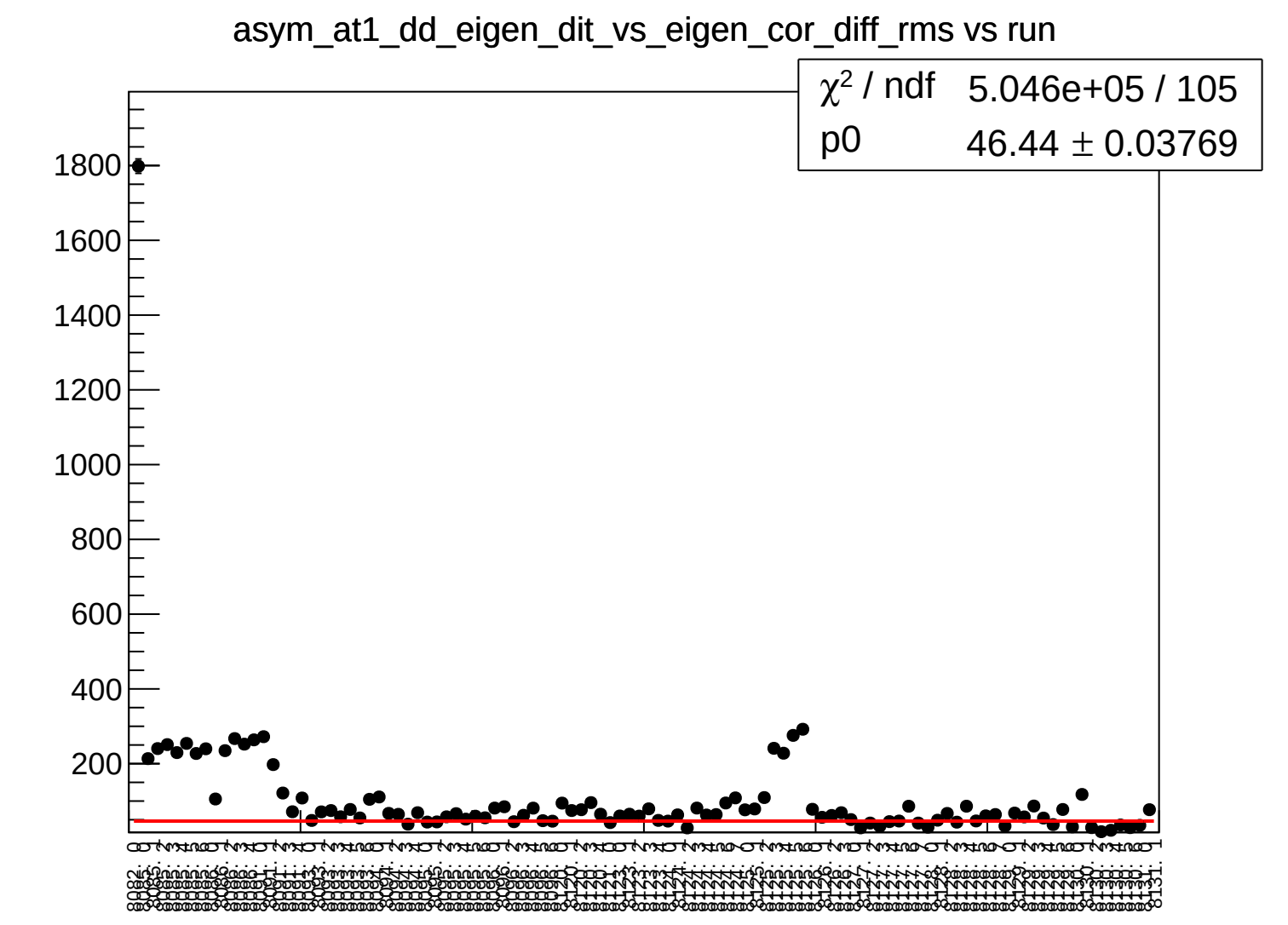

pull1D
Entries 105
Mean −0.03503
Std Dev 0.7943

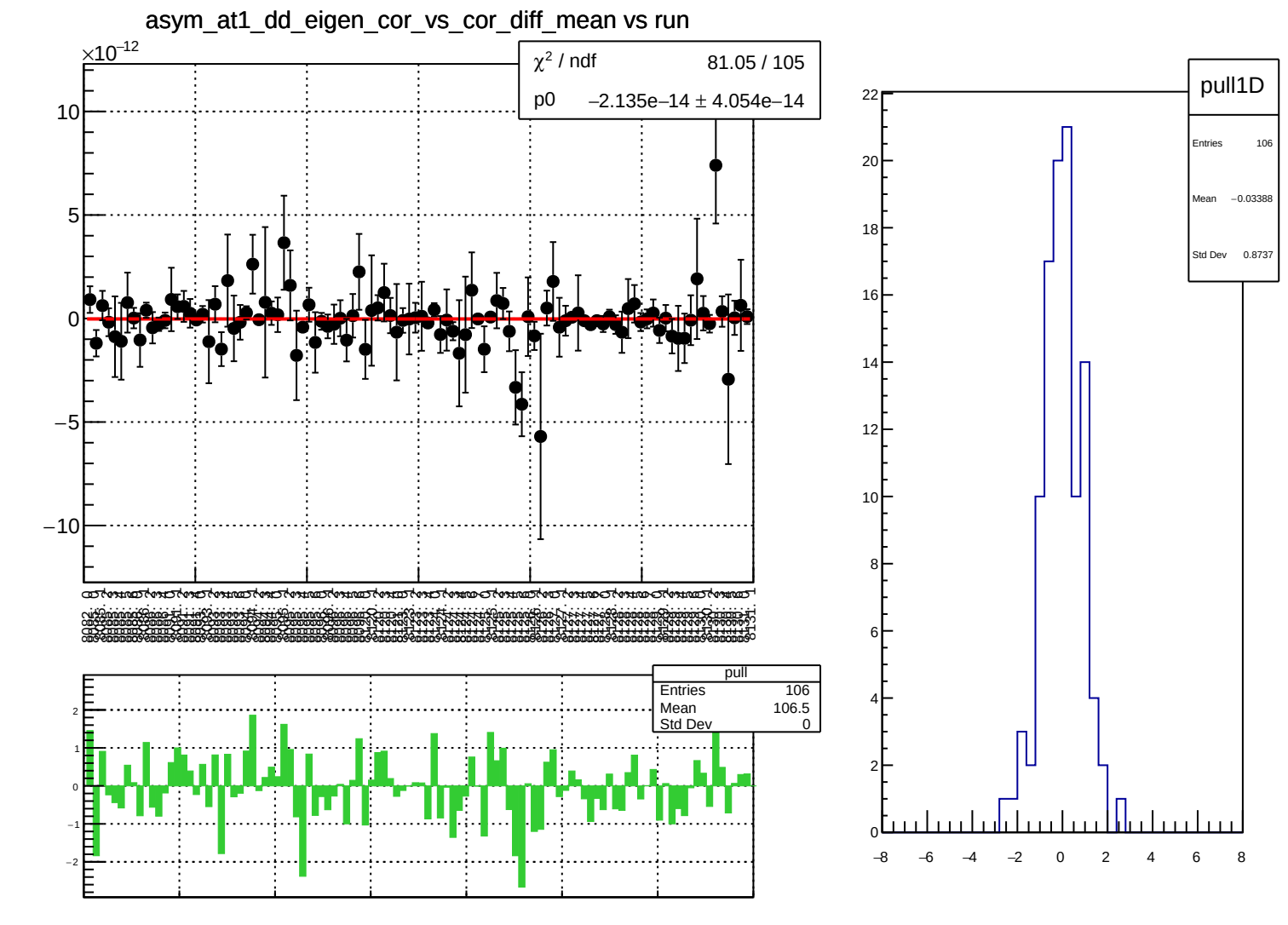

asym_at1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.81e+05 / 104
p0 0.001201 ± 1.082e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001

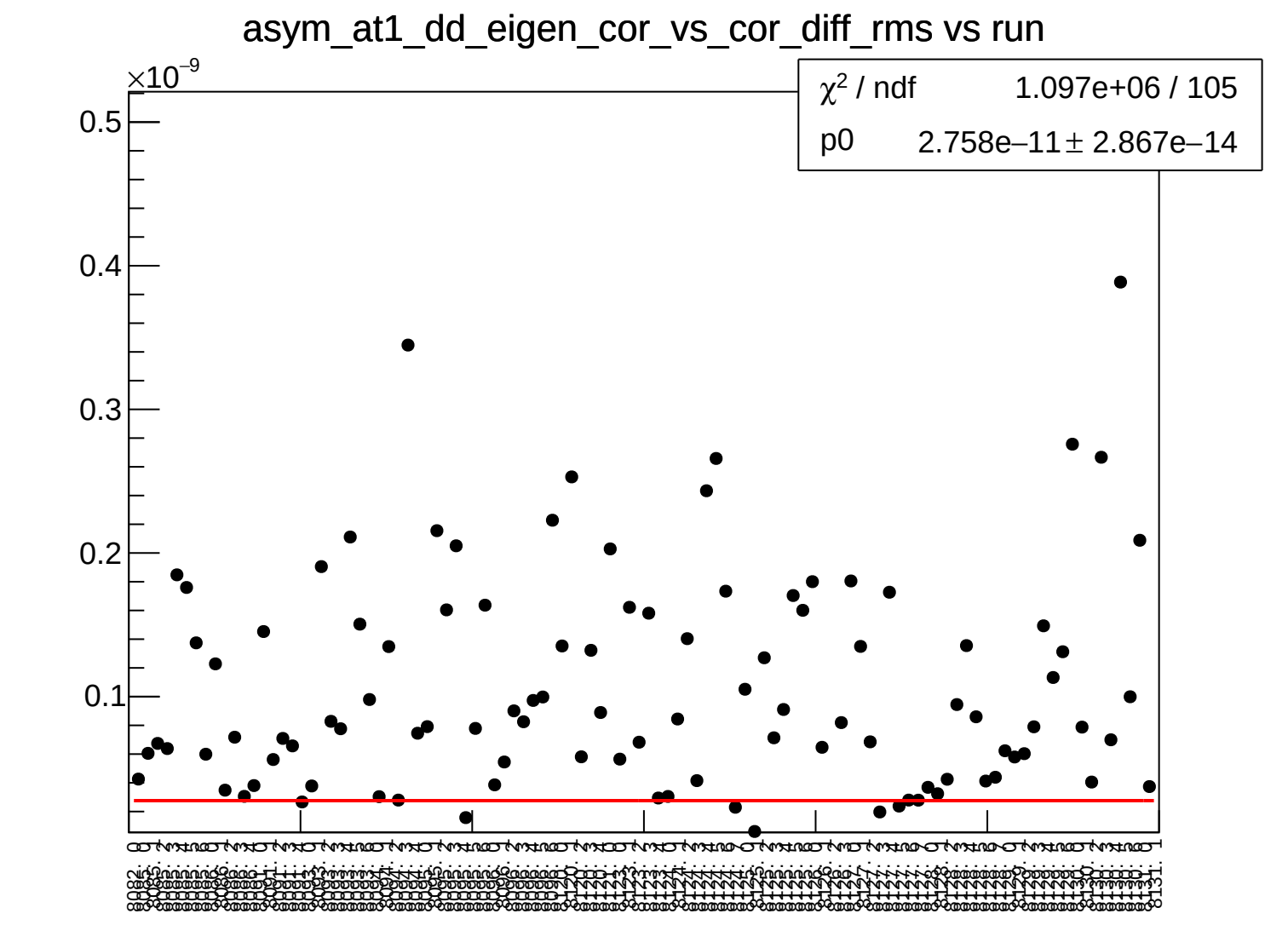

asym_at1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.24 / 105
p0 −0.01093 ± 0.0533
pull
Entries 106
Mean 185
Std Dev 0
pull1D
Entries 106
Mean 0.00805
Std Dev 0.9226

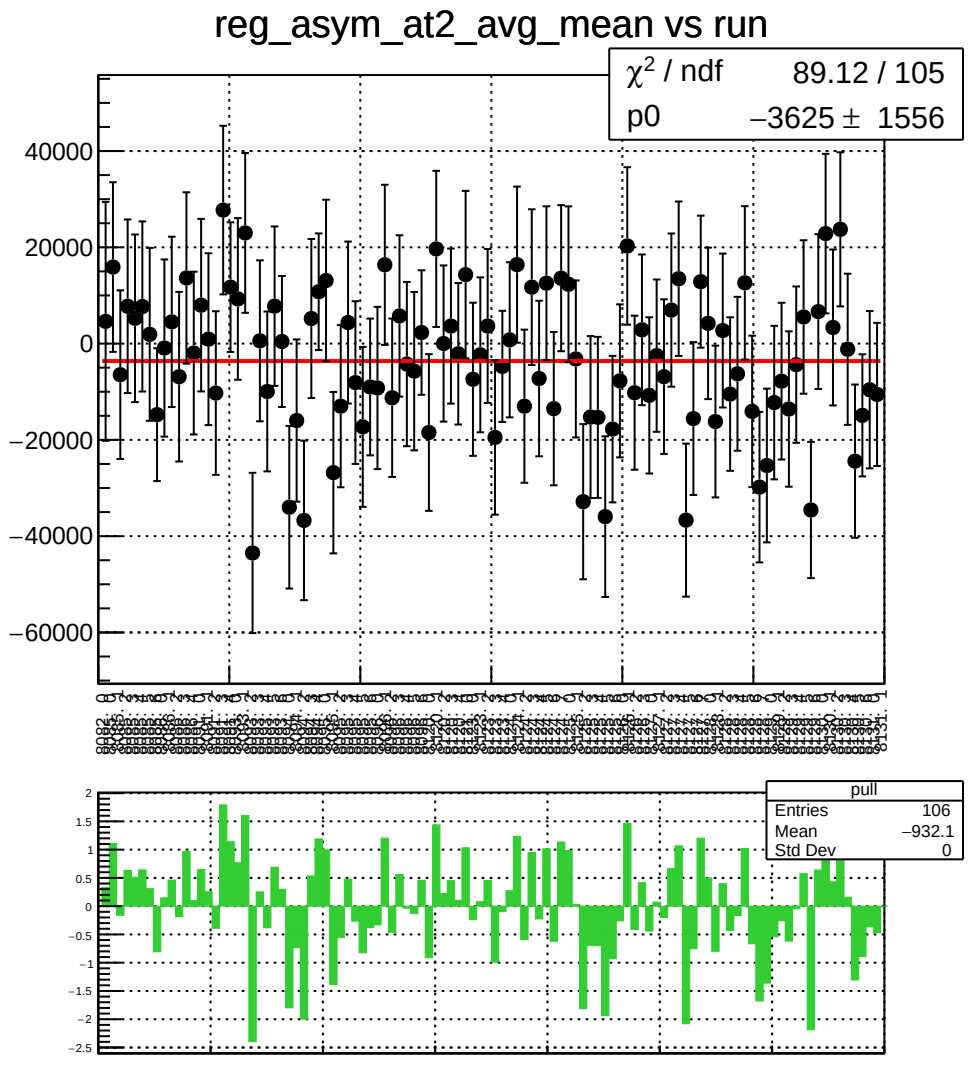

asym_at1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.046e+05 / 105
p0 46.44 ± 0.03769
1800
1600
1400
1200
1000
800
600
400
200

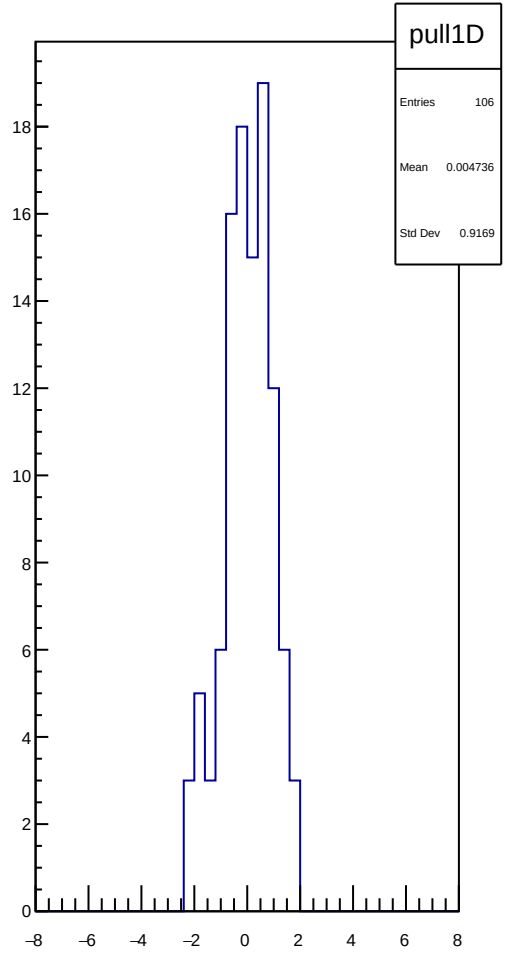

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.24 / 105
p0 −0.01093 ± 0.0533
pull
Entries 106
Mean 185
Std Dev 0
pull1D
Entries 106
Mean 0.00805
Std Dev 0.9226

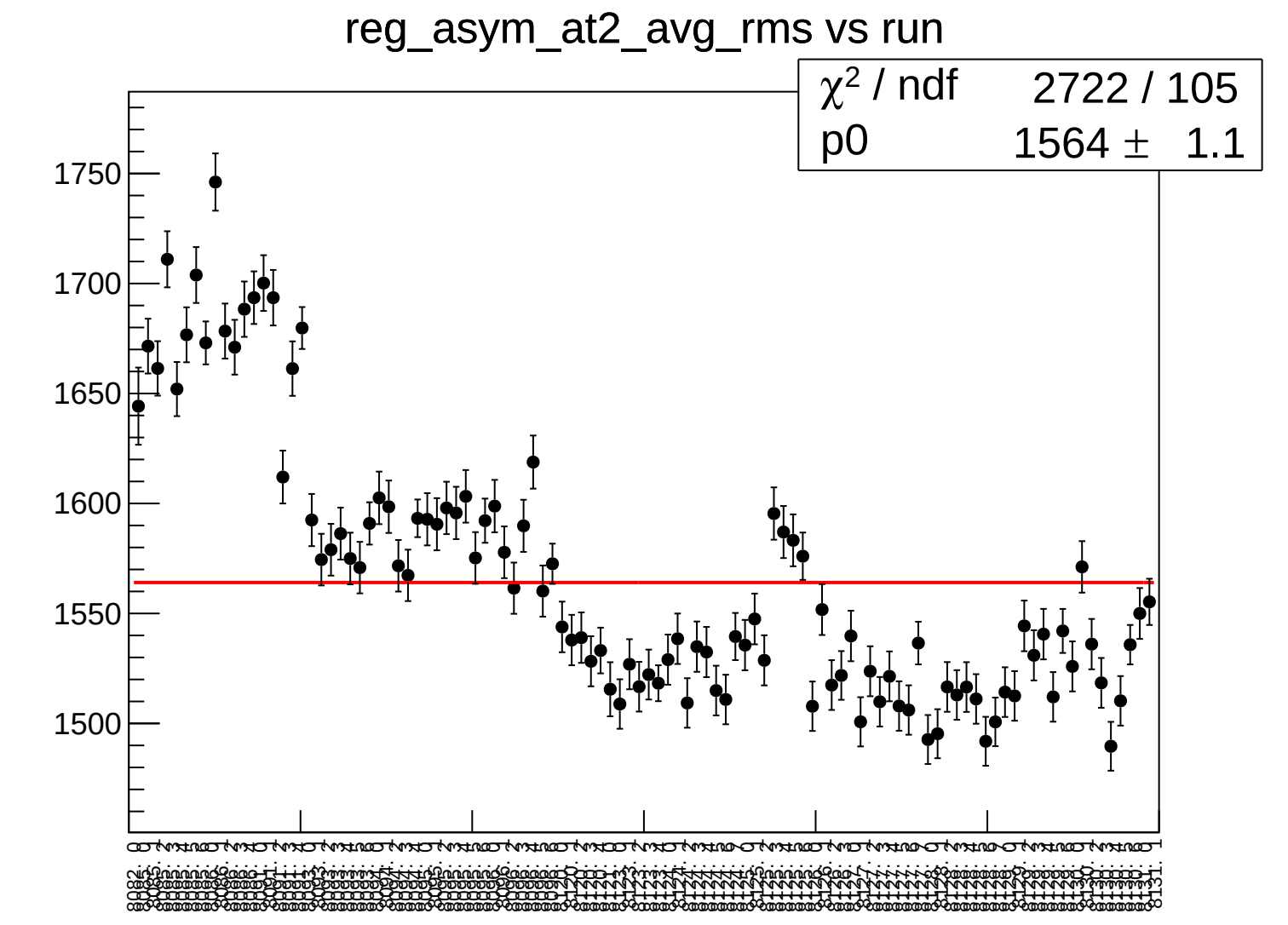

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.046e+05 / 105
p0 46.44 ± 0.03769
1800
1600
1400
1200
1000
800
600
400
200

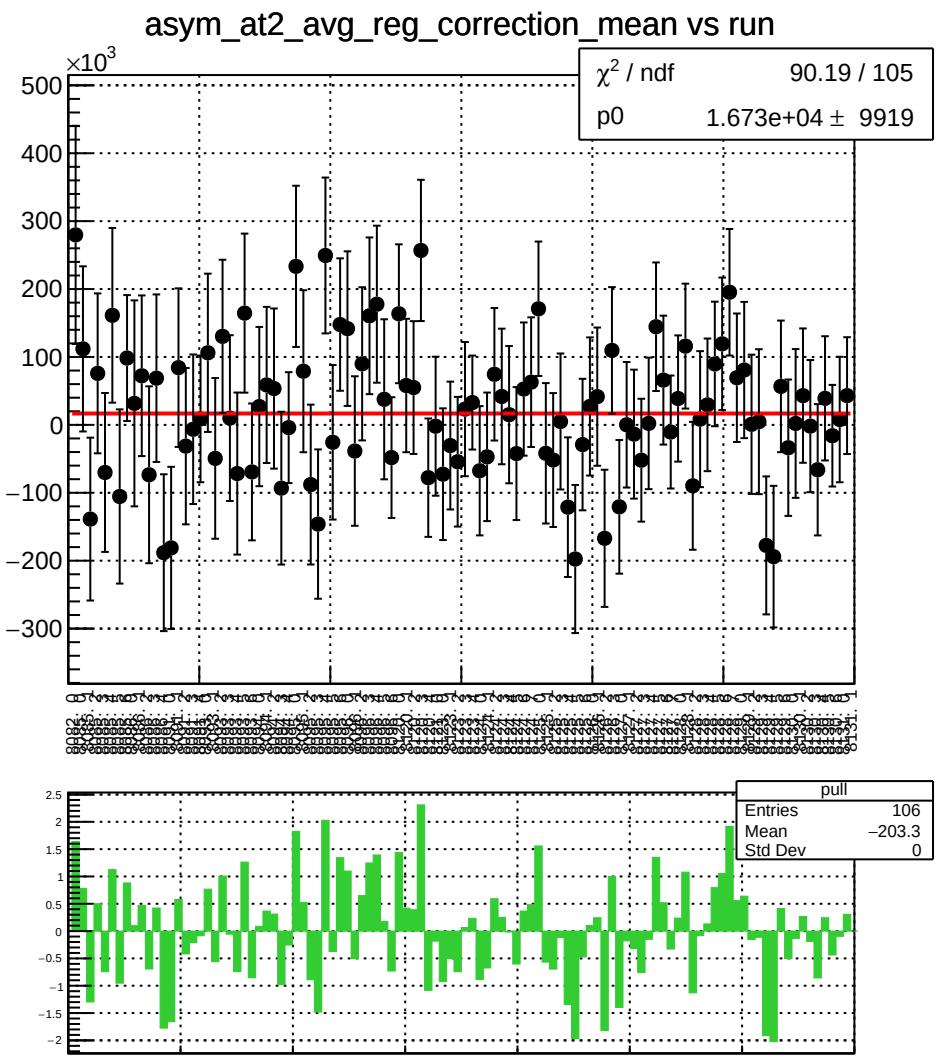

asym_at1_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 81.05 / 105
p0 −2.135e−14 ± 4.054e−14
pull
Entries 106
Mean 106.5
Std Dev 0
pull1D
Entries 106
Mean −0.03388
Std Dev 0.8737

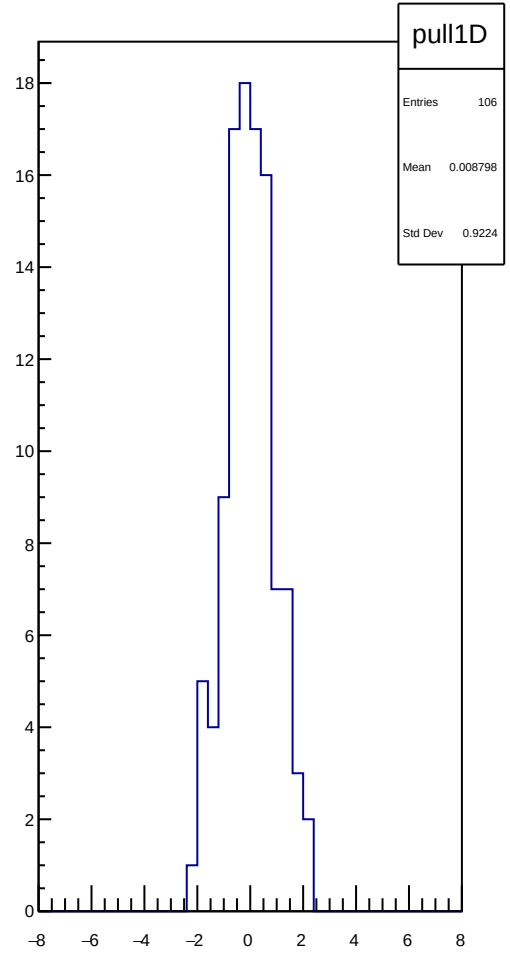

asym_at1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.5
0.4
0.3
0.2
0.1
χ² / ndf 1.097e+06 / 105
p0 2.758e−11 ± 2.867e−14

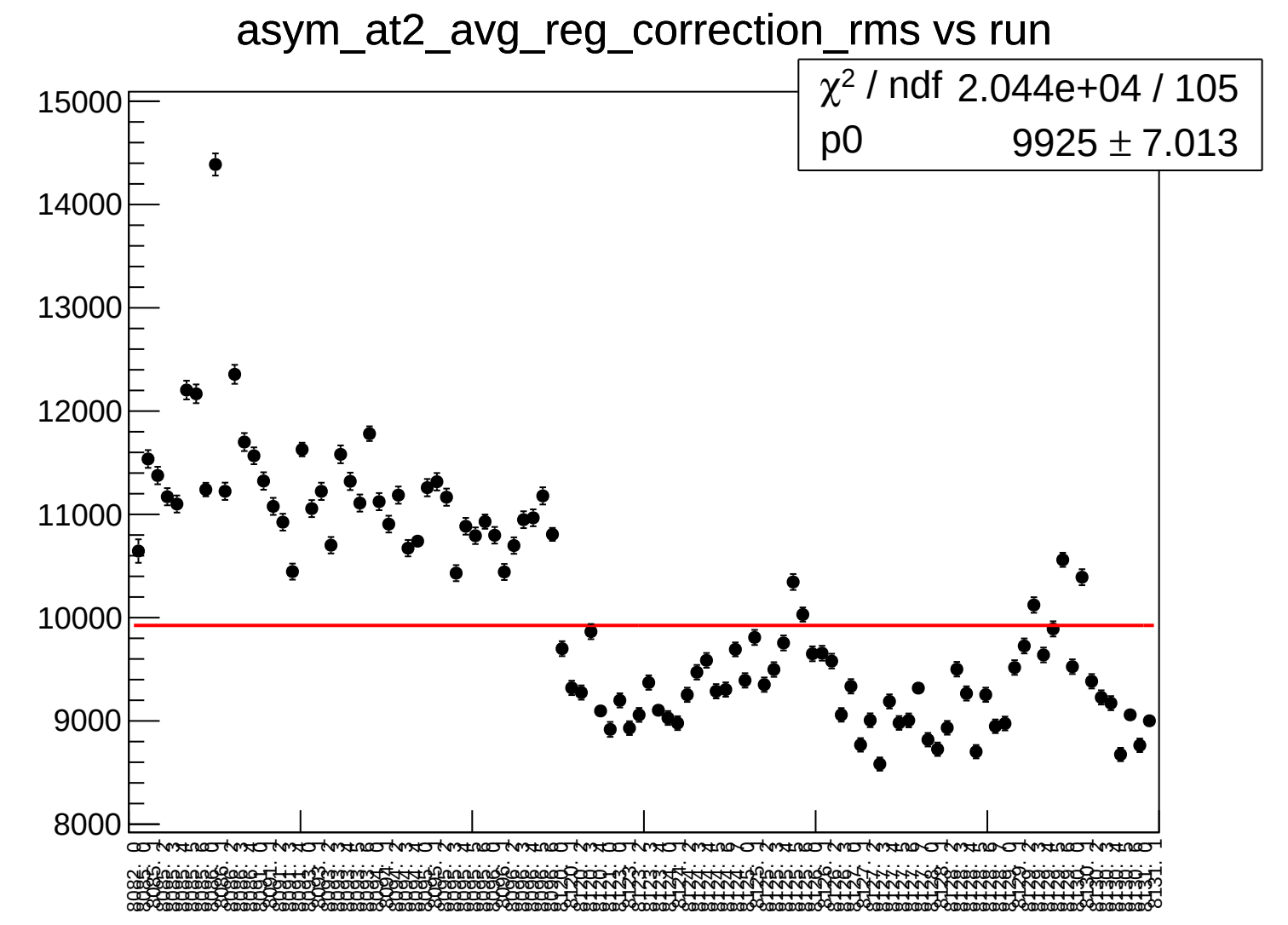

reg_asym_at2_avg_mean vs run
χ² / ndf 89.12 / 105
p0 −3625 ± 1556
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean −932.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

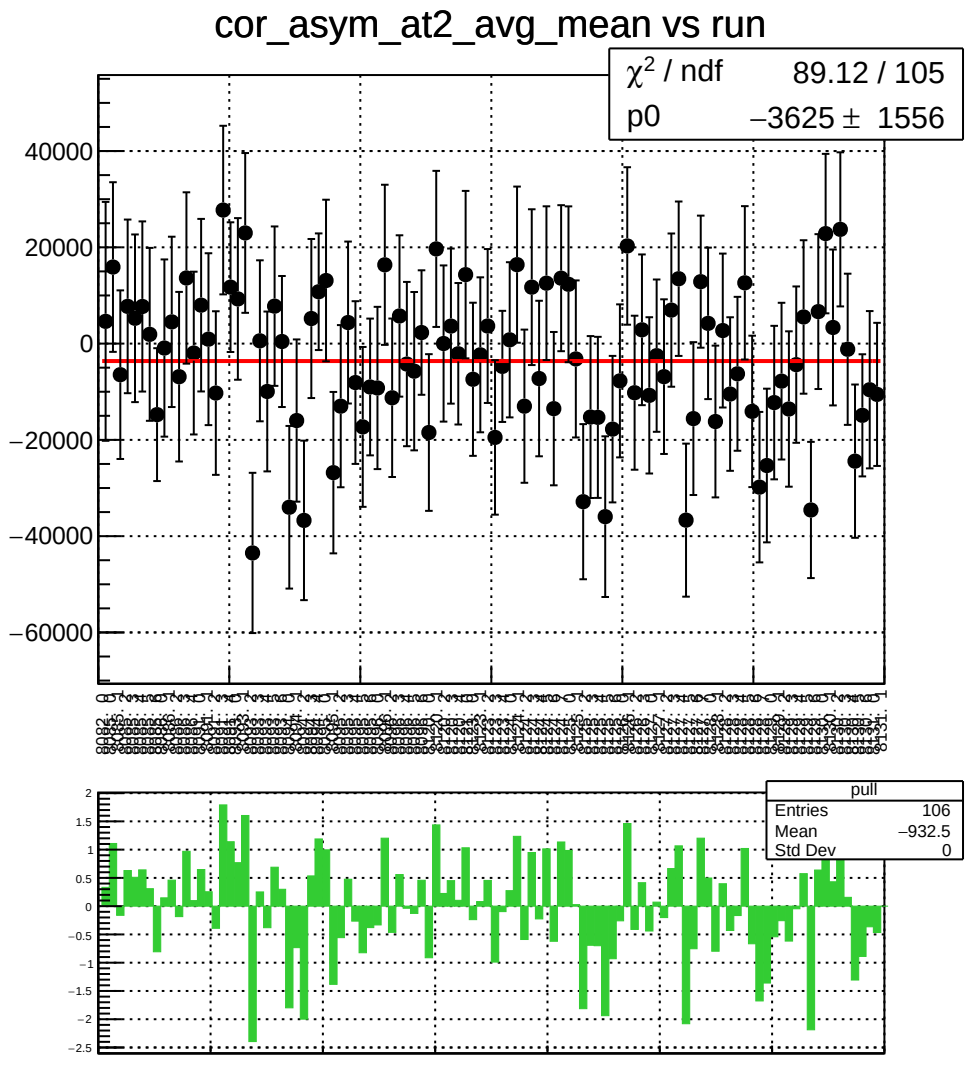

pull1D
Entries 106
Mean 0.004736
Std Dev 0.9169
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

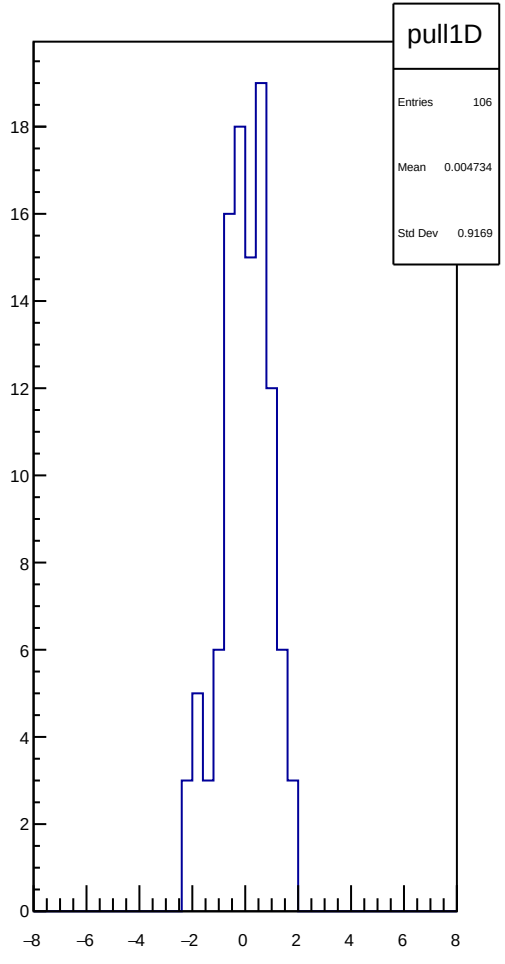

reg_asym_at2_avg_rms vs run
χ² / ndf 2722 / 105
p0 1564 ± 1.1
1750
1700
1650
1600
1550
1500

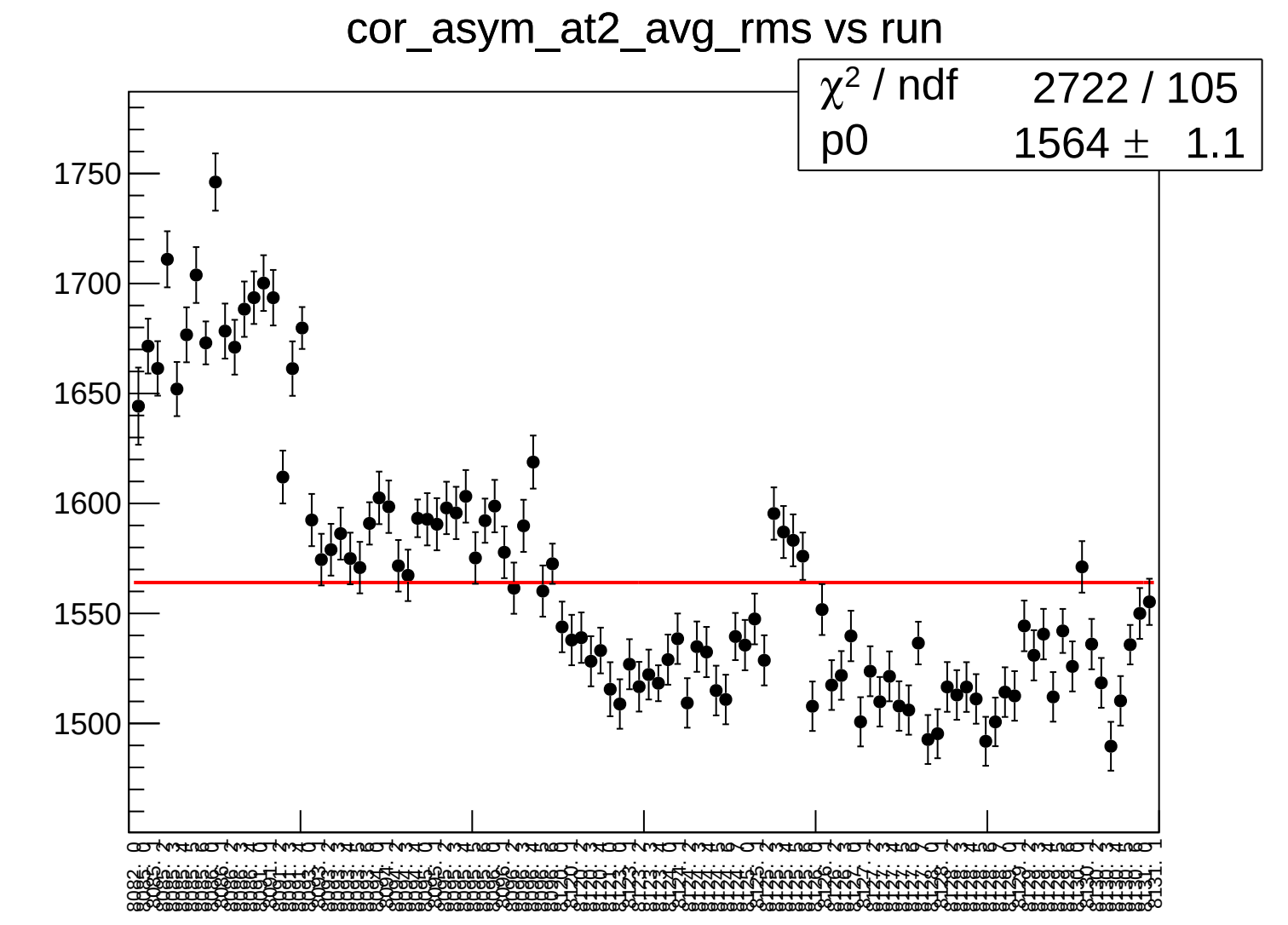

asym_at2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 90.19 / 105
p0 1.673e+04 ± 9919
pull
Entries 106
Mean −203.3
Std Dev 0

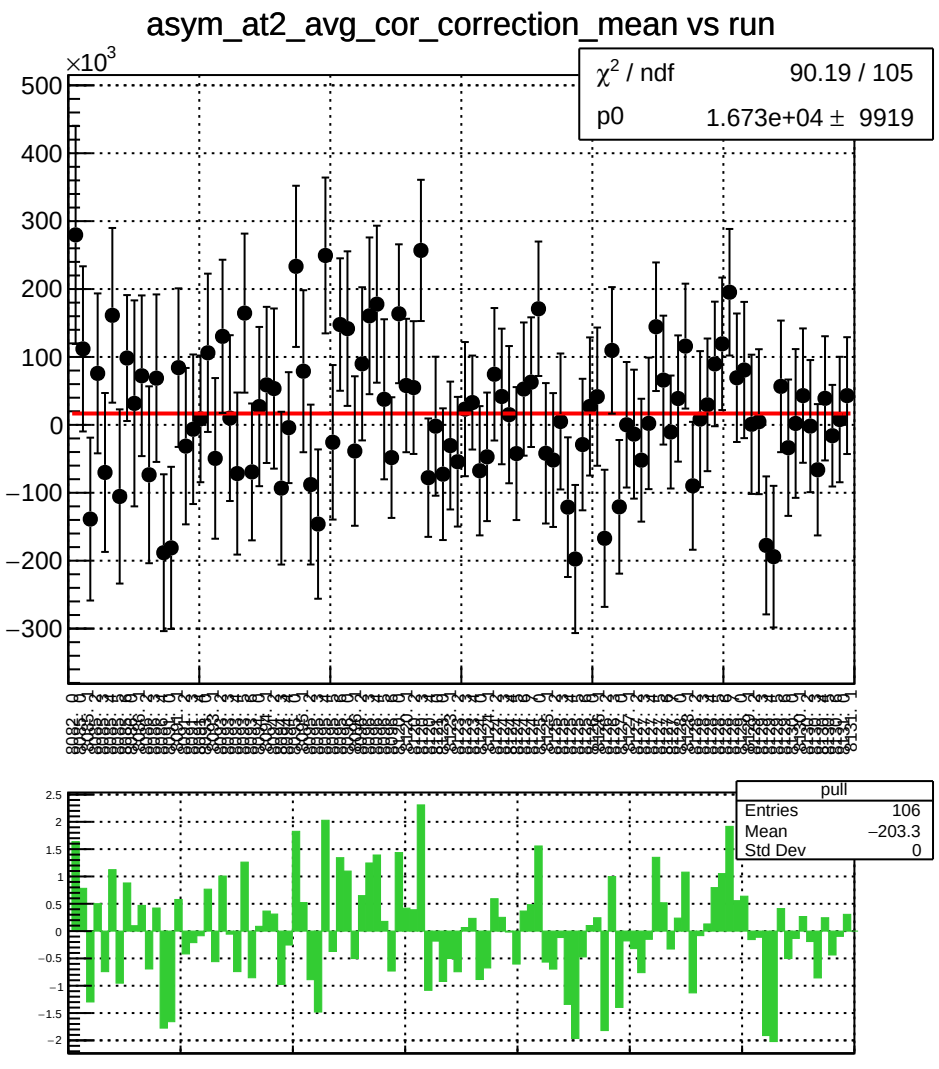

pull1D
Entries 106
Mean 0.008798
Std Dev 0.9224

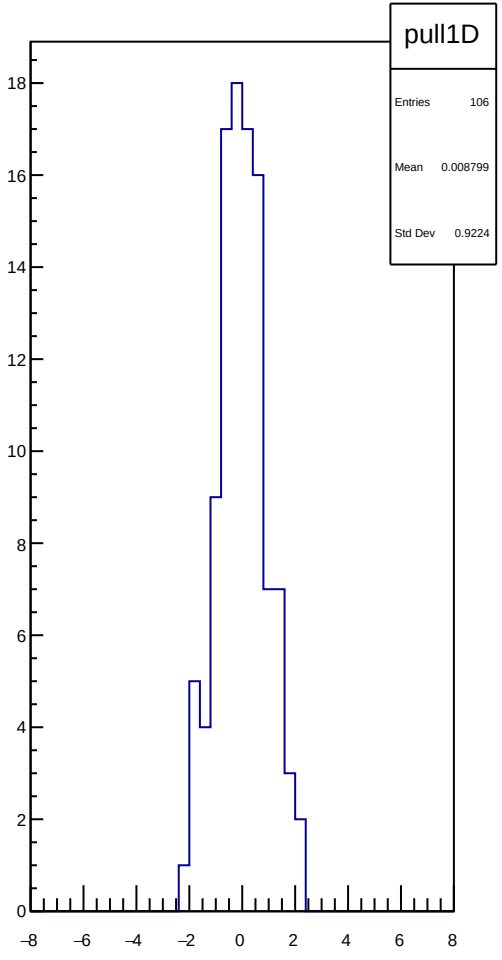

asym_at2_avg_reg_correction_rms vs run
χ² / ndf 2.044e+04 / 105
p0 9925 ± 7.013
15000
14000
13000
12000
11000
10000
9000
8000

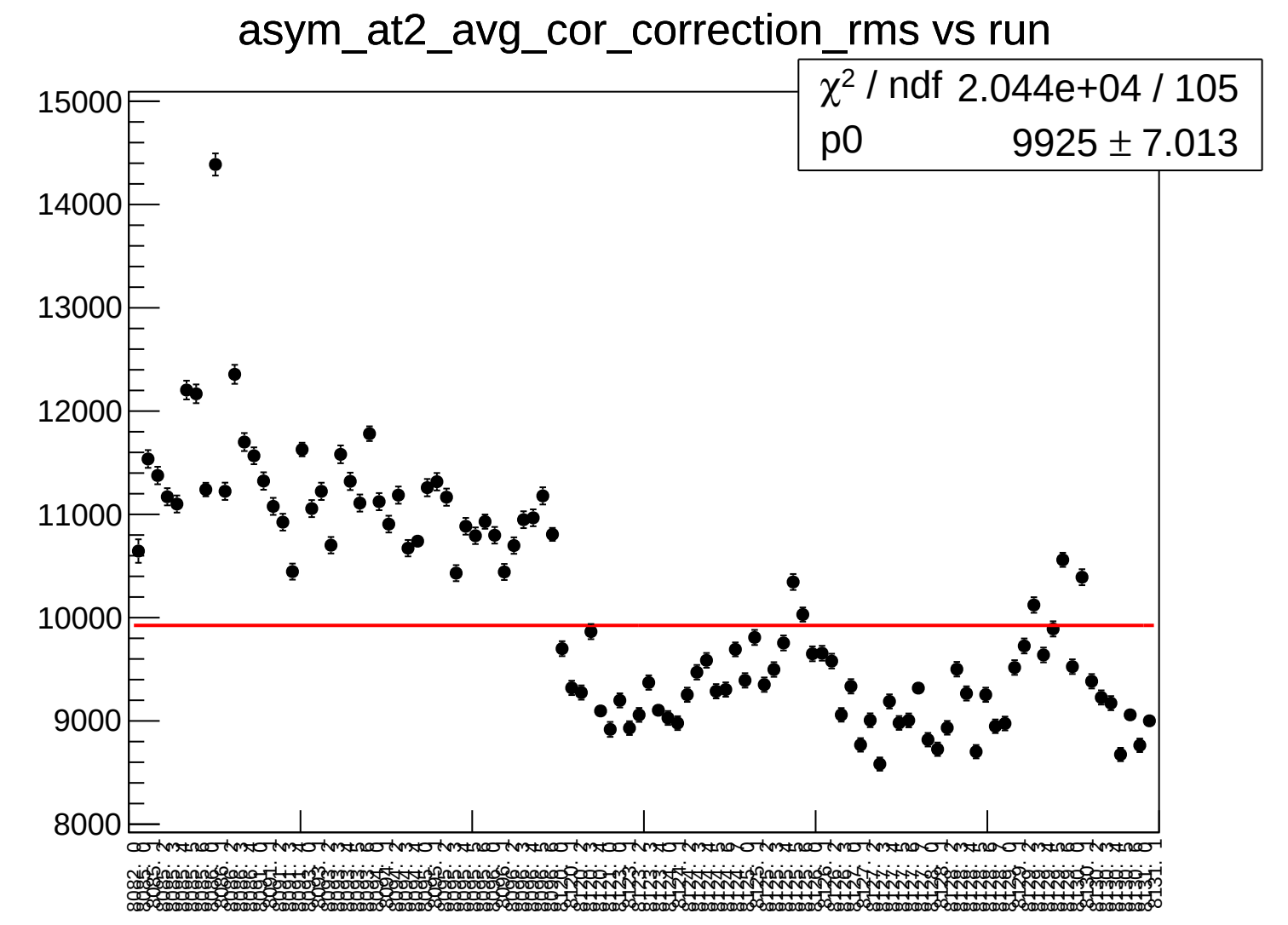

cor_asym_at2_avg_mean vs run
χ² / ndf 89.12 / 105
p0 −3625 ± 1556
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean −932.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

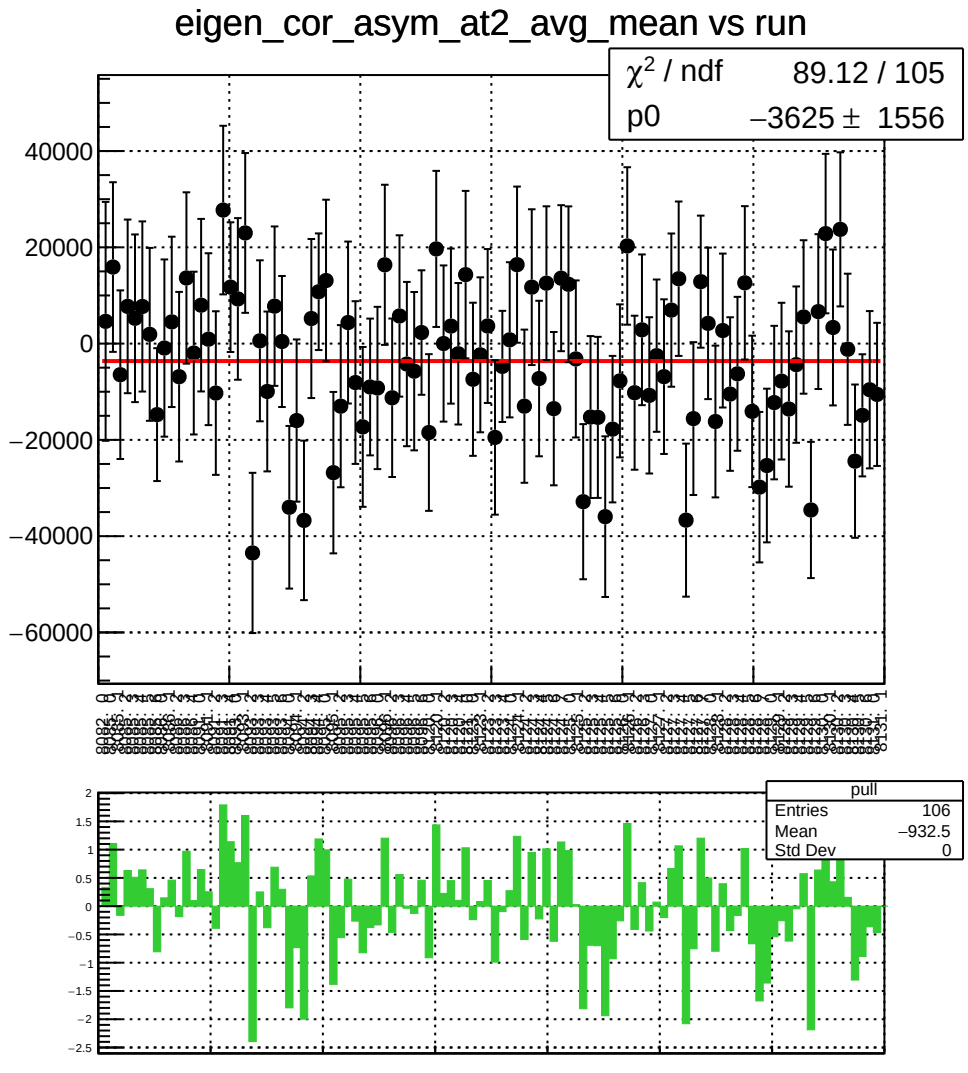

pull1D
Entries 106
Mean 0.004734
Std Dev 0.9169
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

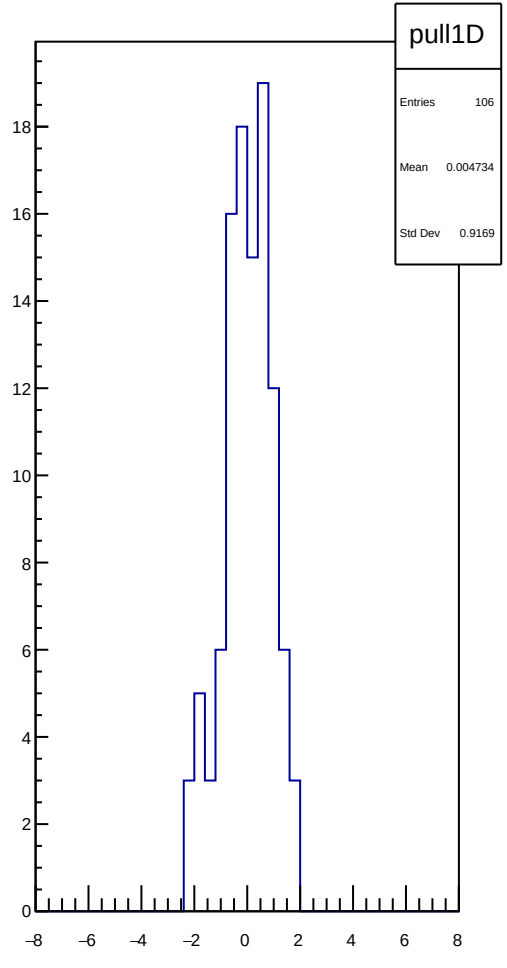

cor_asym_at2_avg_rms vs run
χ² / ndf 2722 / 105
p0 1564 ± 1.1
1750
1700
1650
1600
1550
1500

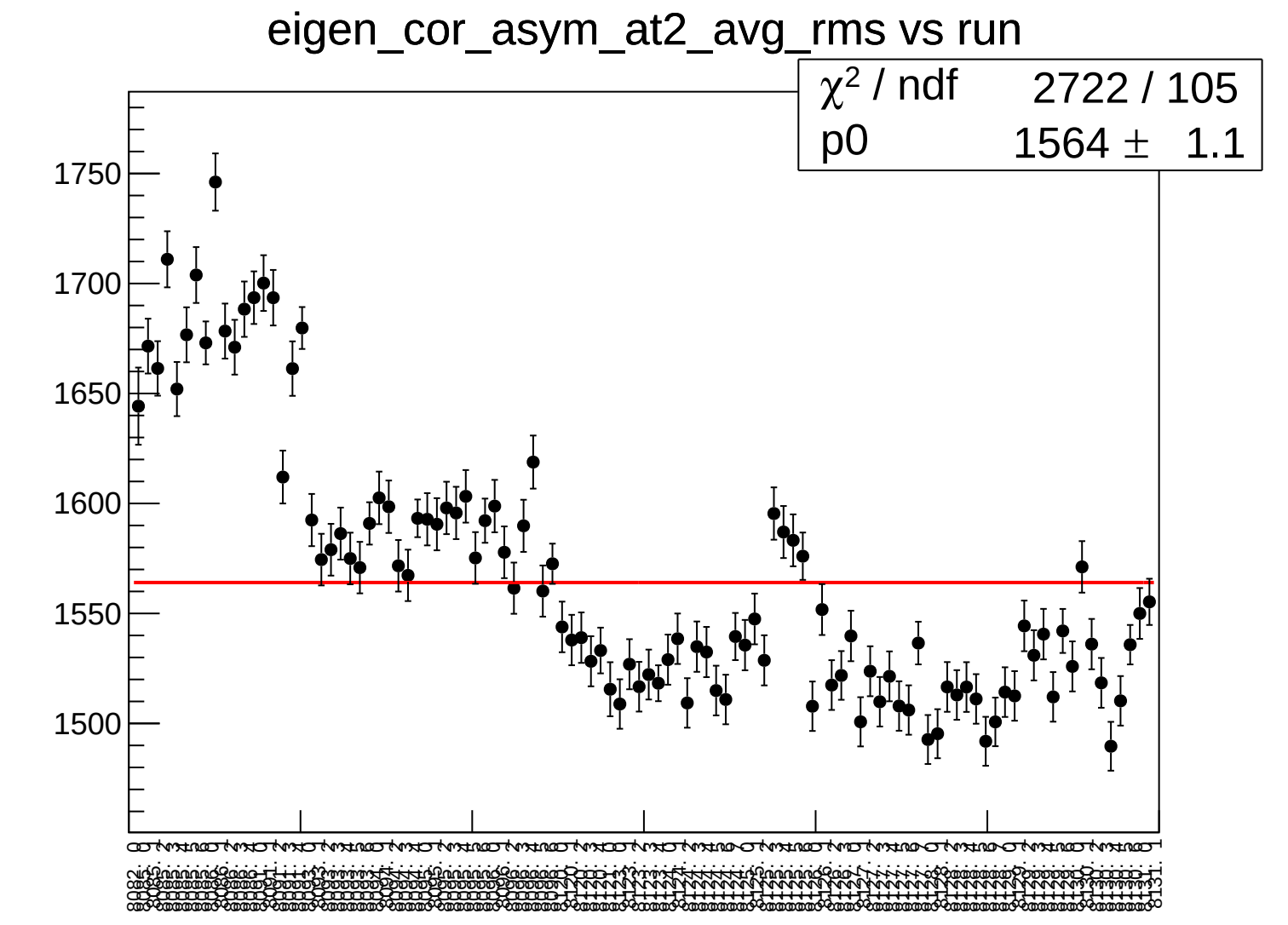

asym_at2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 90.19 / 105
p0 1.673e+04 ± 9919
pull
Entries 106
Mean −203.3
Std Dev 0

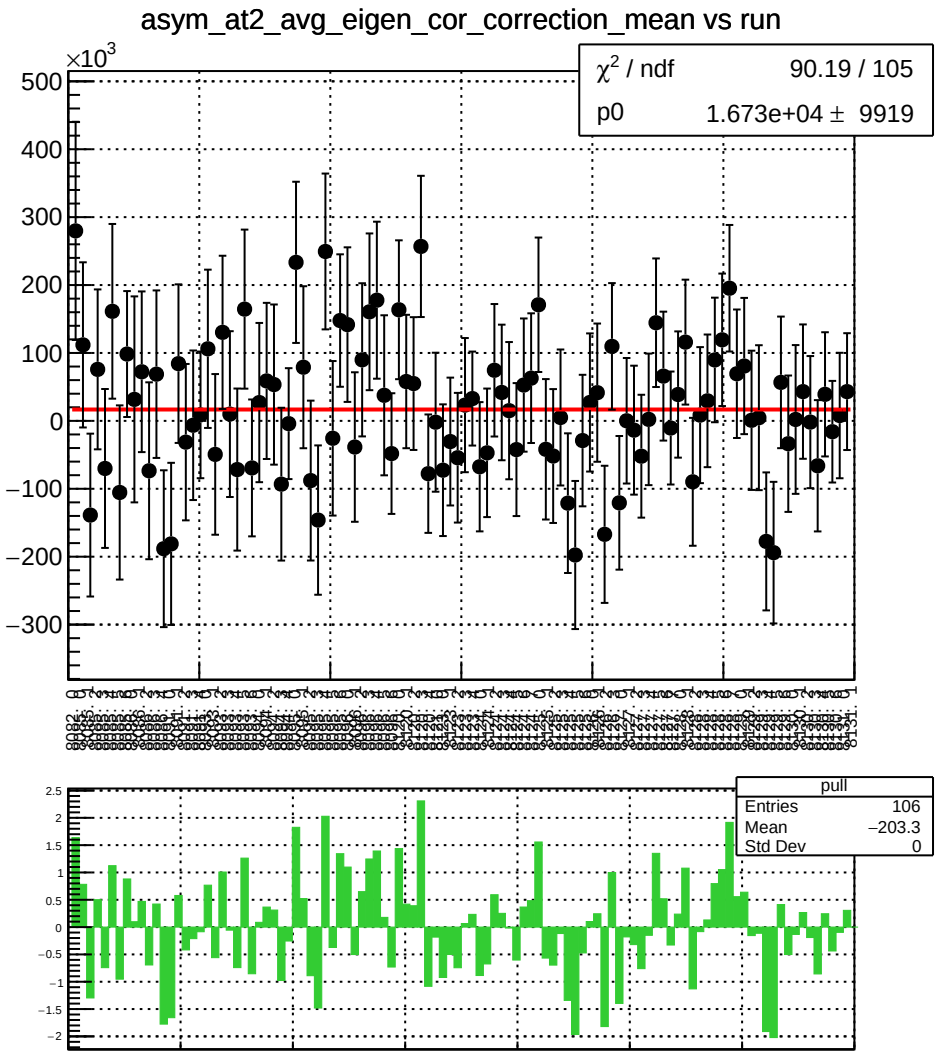

pull1D
Entries 106
Mean 0.008799
Std Dev 0.9224

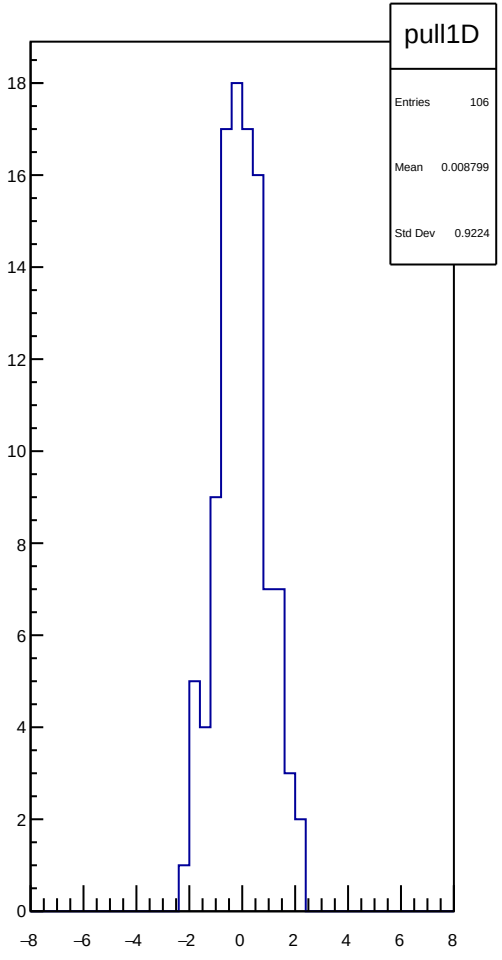

asym_at2_avg_cor_correction_rms vs run
χ² / ndf 2.044e+04 / 105
p0 9925 ± 7.013
15000
14000
13000
12000
11000
10000
9000
8000

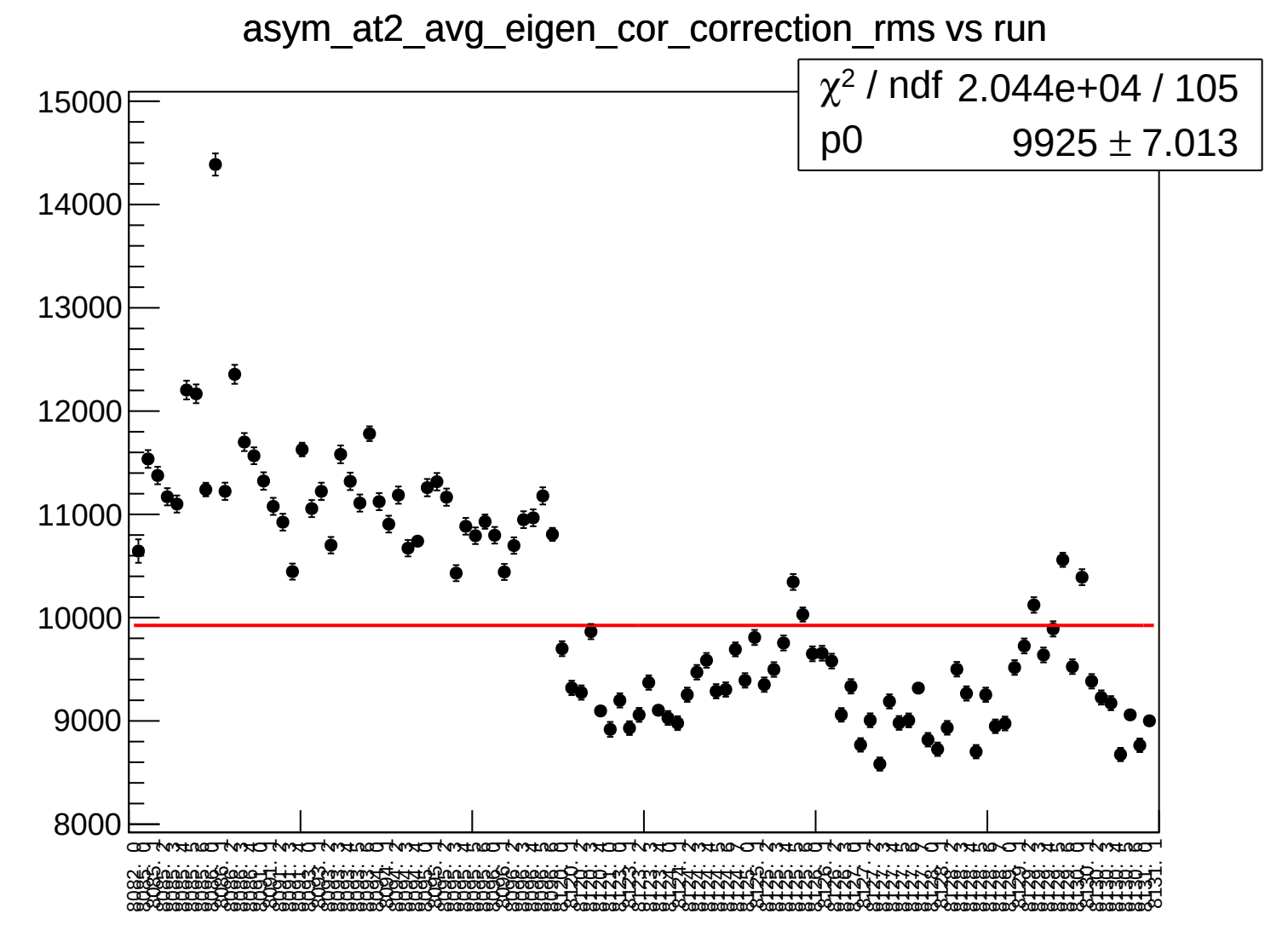

eigen_cor_asym_at2_avg_mean vs run
χ² / ndf 89.12 / 105
p0 −3625 ± 1556
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean −932.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

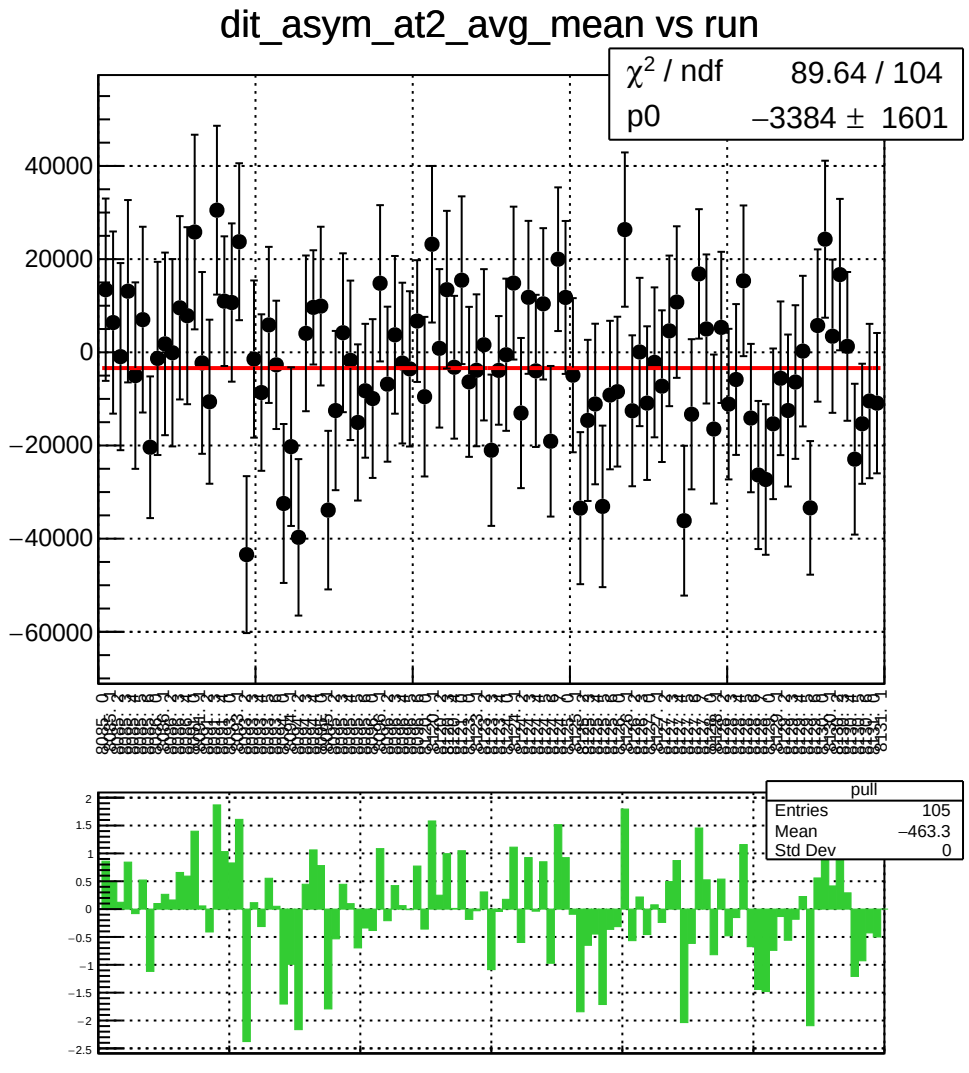

pull1D
Entries 106
Mean 0.004734
Std Dev 0.9169
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

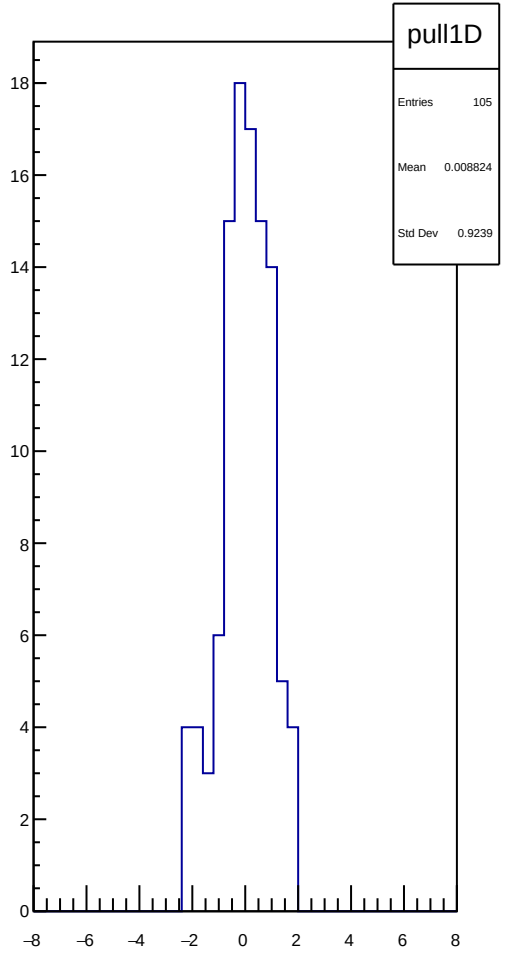

eigen_cor_asym_at2_avg_rms vs run
χ² / ndf 2722 / 105
p0 1564 ± 1.1
1750
1700
1650
1600
1550
1500

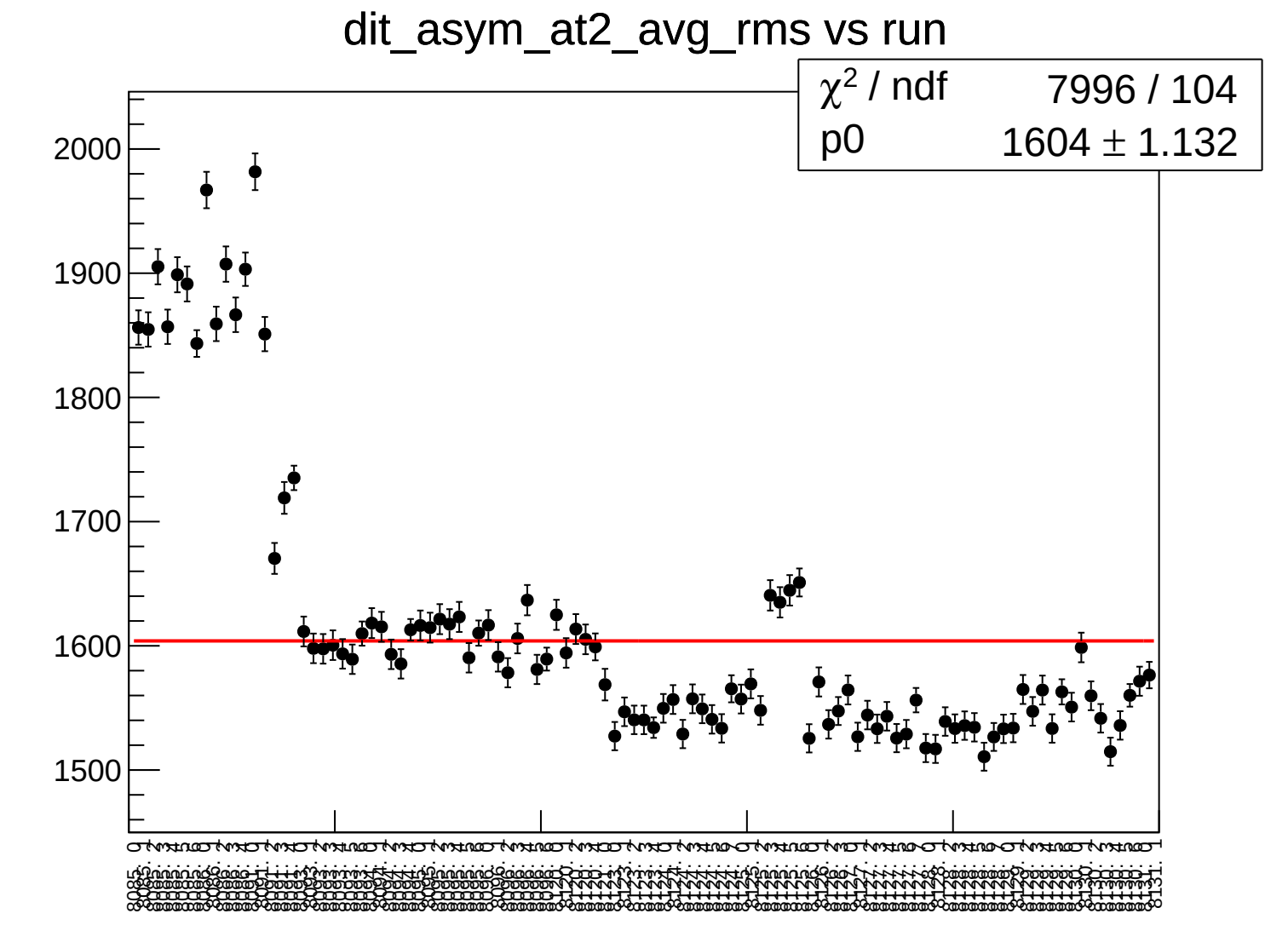

asym_at2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 90.19 / 105
p0 1.673e+04 ± 9919
pull
Entries 106
Mean −203.3
Std Dev 0

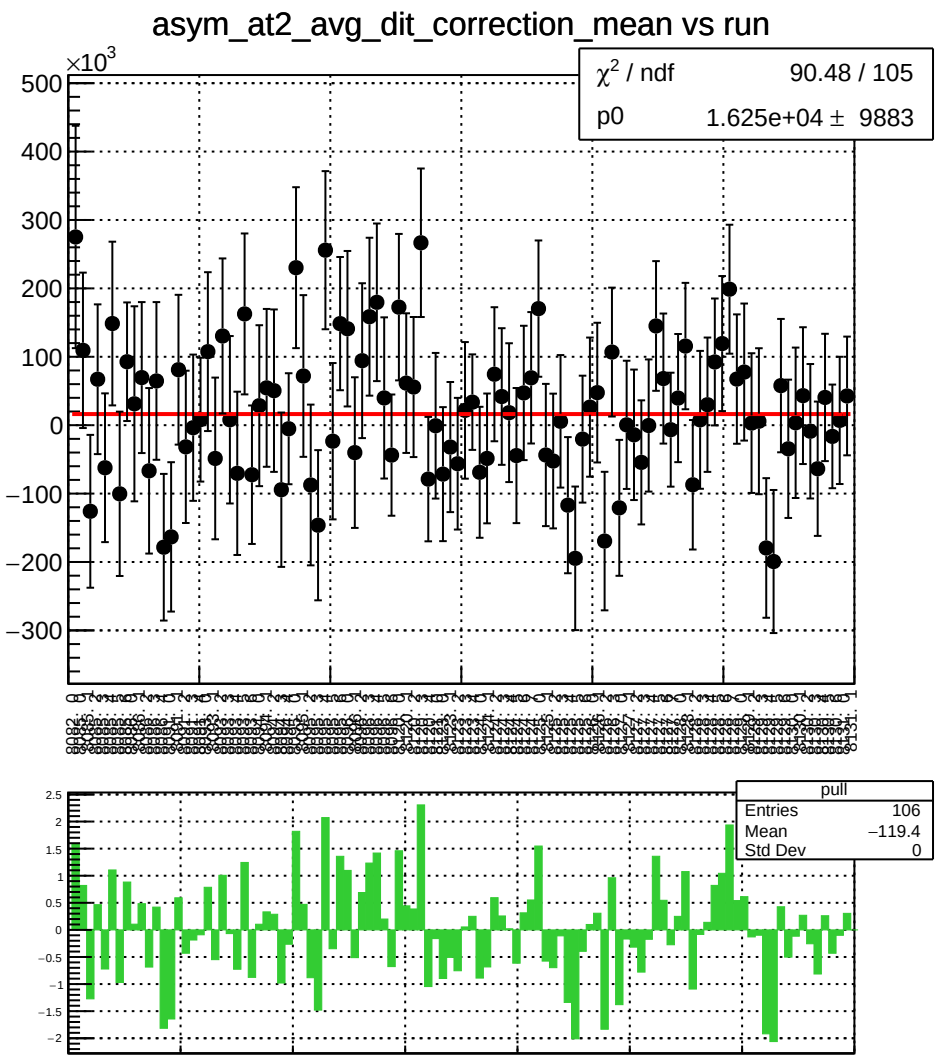

pull1D
Entries 106
Mean 0.008799
Std Dev 0.9224

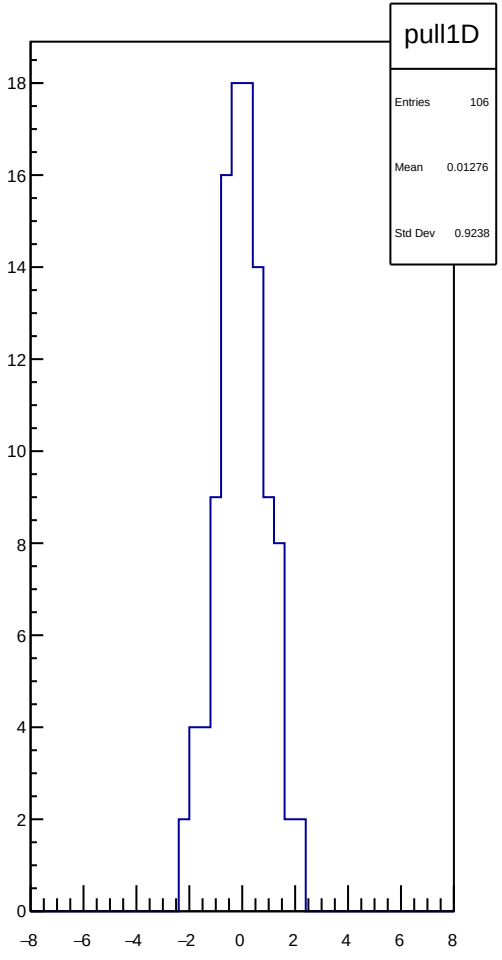

asym_at2_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.044e+04 / 105
p0 9925 ± 7.013
15000
14000
13000
12000
11000
10000
9000
8000

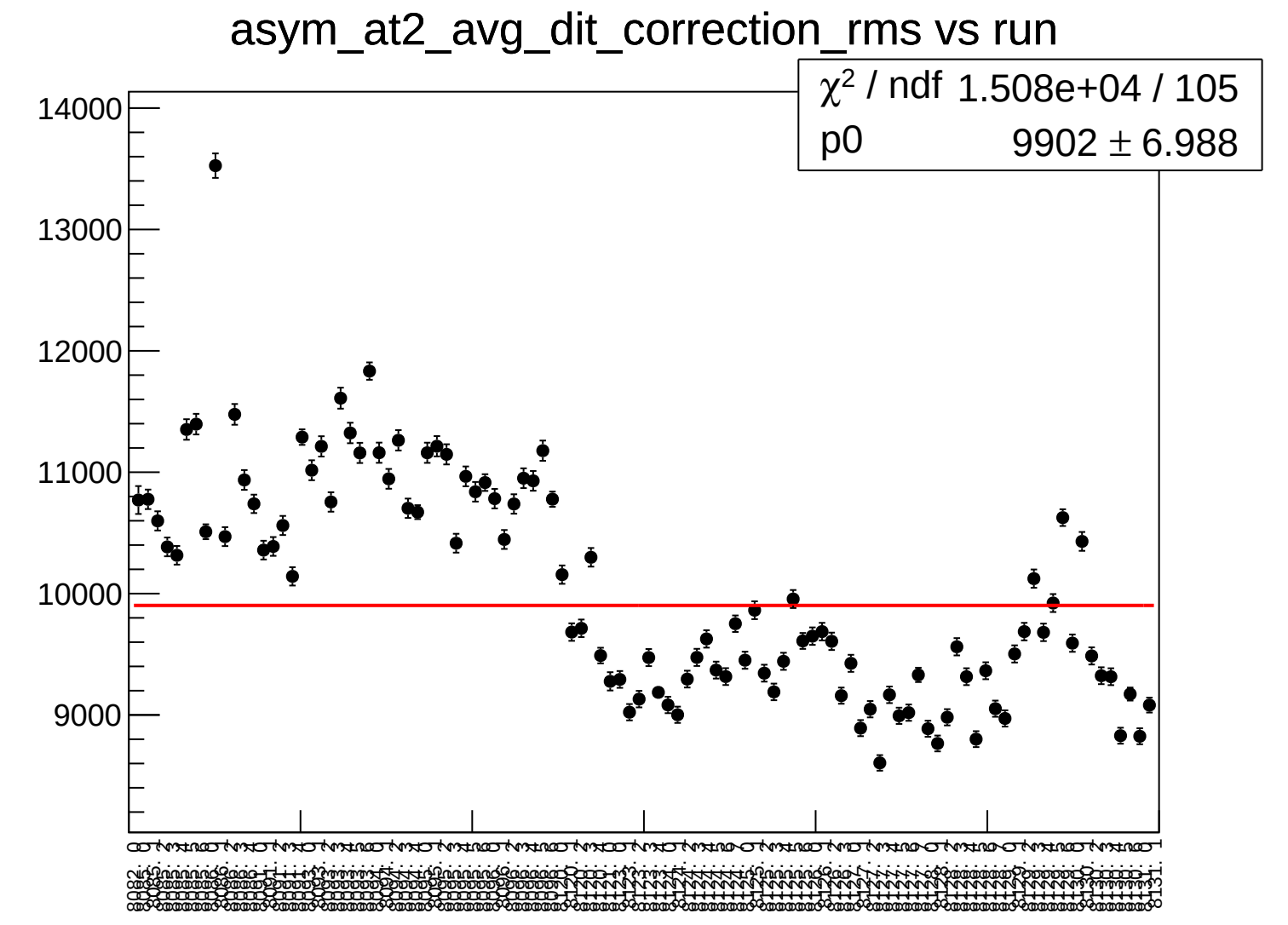

dit_asym_at2_avg_mean vs run
χ² / ndf 89.64 / 104
p0 −3384 ± 1601
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean −463.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

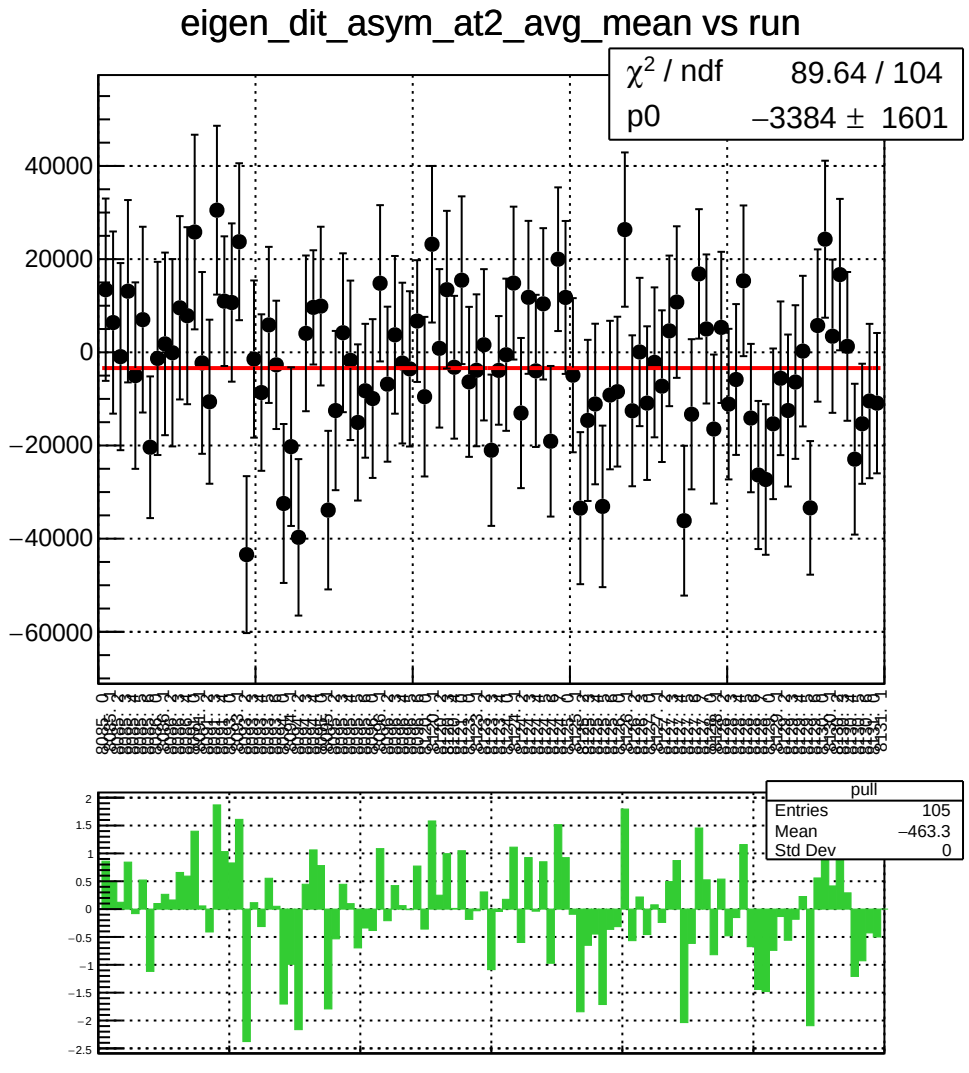

pull1D
Entries 105
Mean 0.008824
Std Dev 0.9239
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

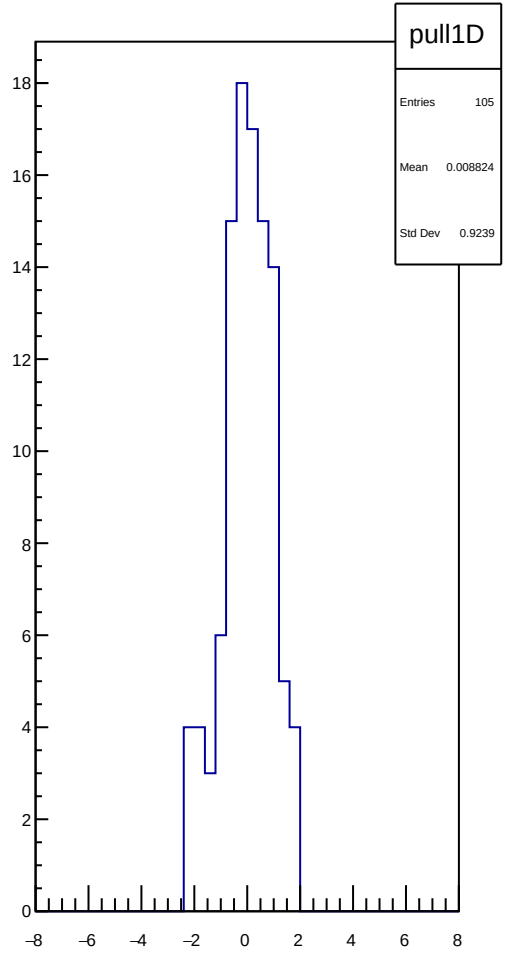

dit_asym_at2_avg_rms vs run
χ² / ndf 7996 / 104
p0 1604 ± 1.132
2000
1900
1800
1700
1600
1500

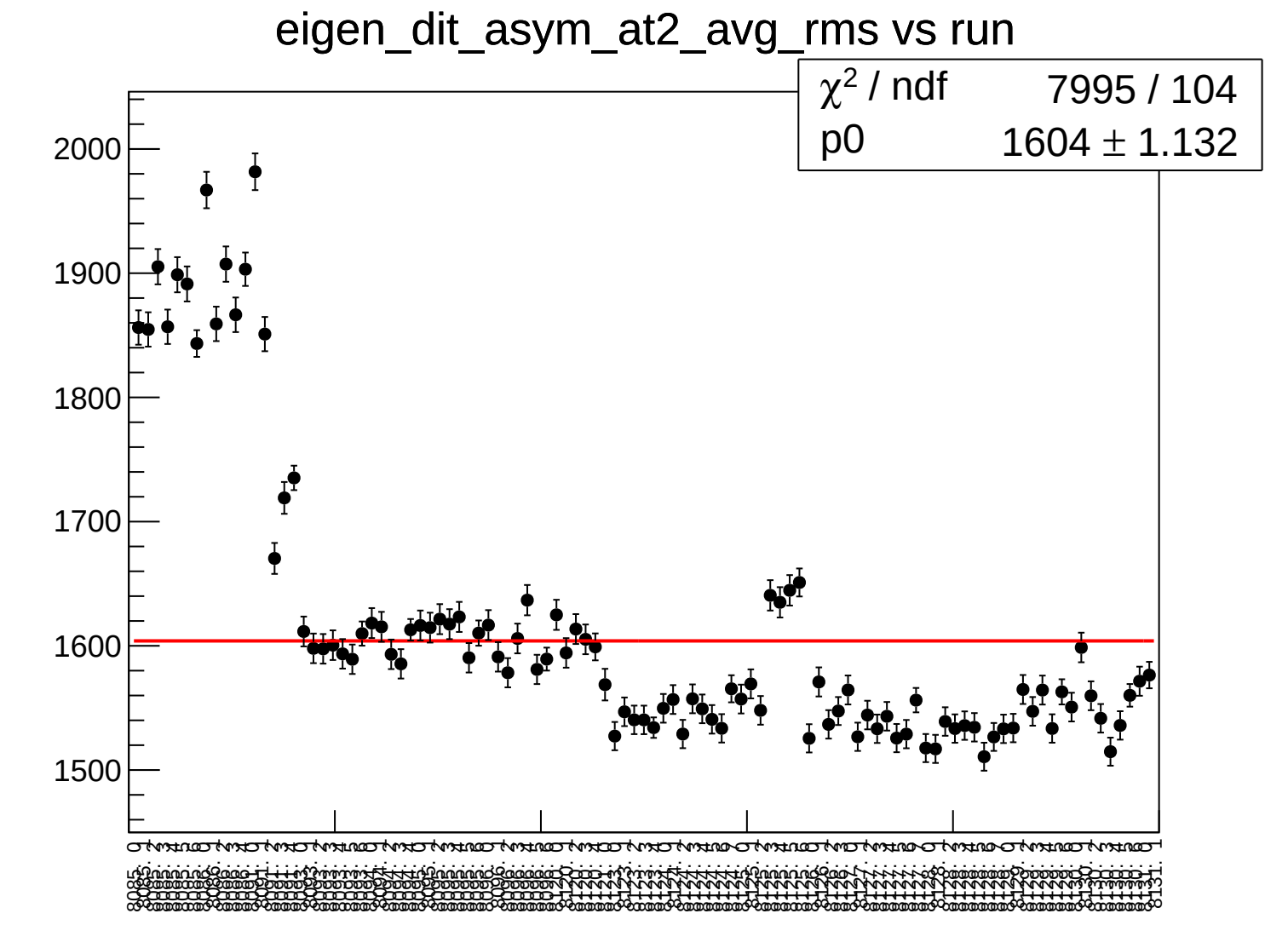

asym_at2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 90.48 / 105
p0 1.625e+04 ± 9883
pull
Entries 106
Mean −119.4
Std Dev 0

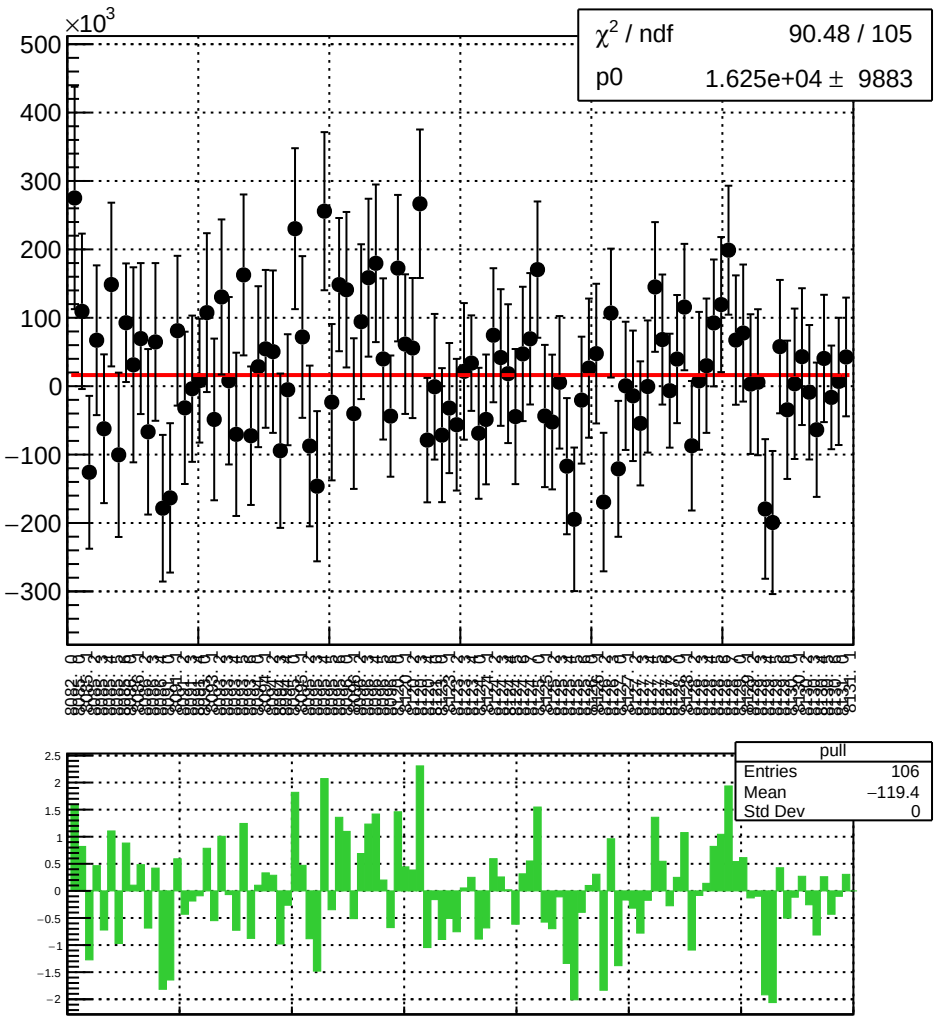

pull1D
Entries 106
Mean 0.01276
Std Dev 0.9238

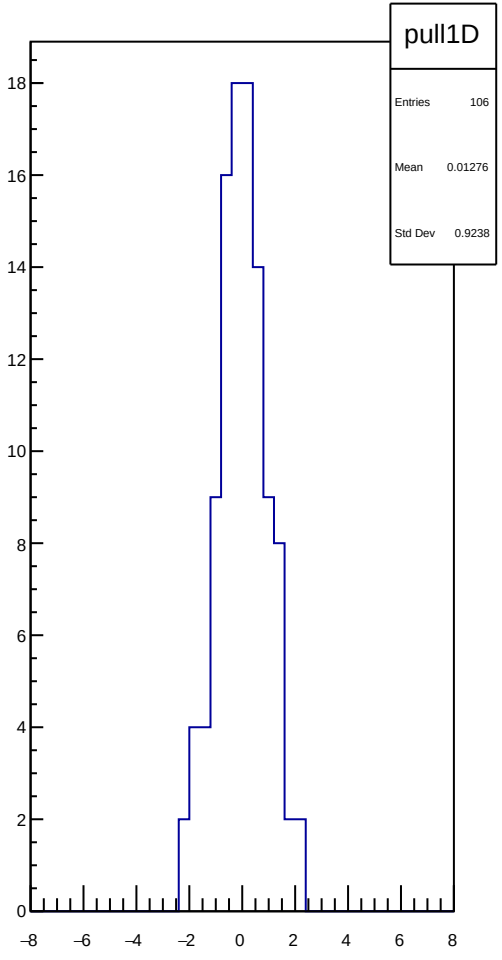

asym_at2_avg_dit_correction_rms vs run
χ² / ndf 1.508e+04 / 105
p0 9902 ± 6.988
14000
13000
12000
11000
10000
9000

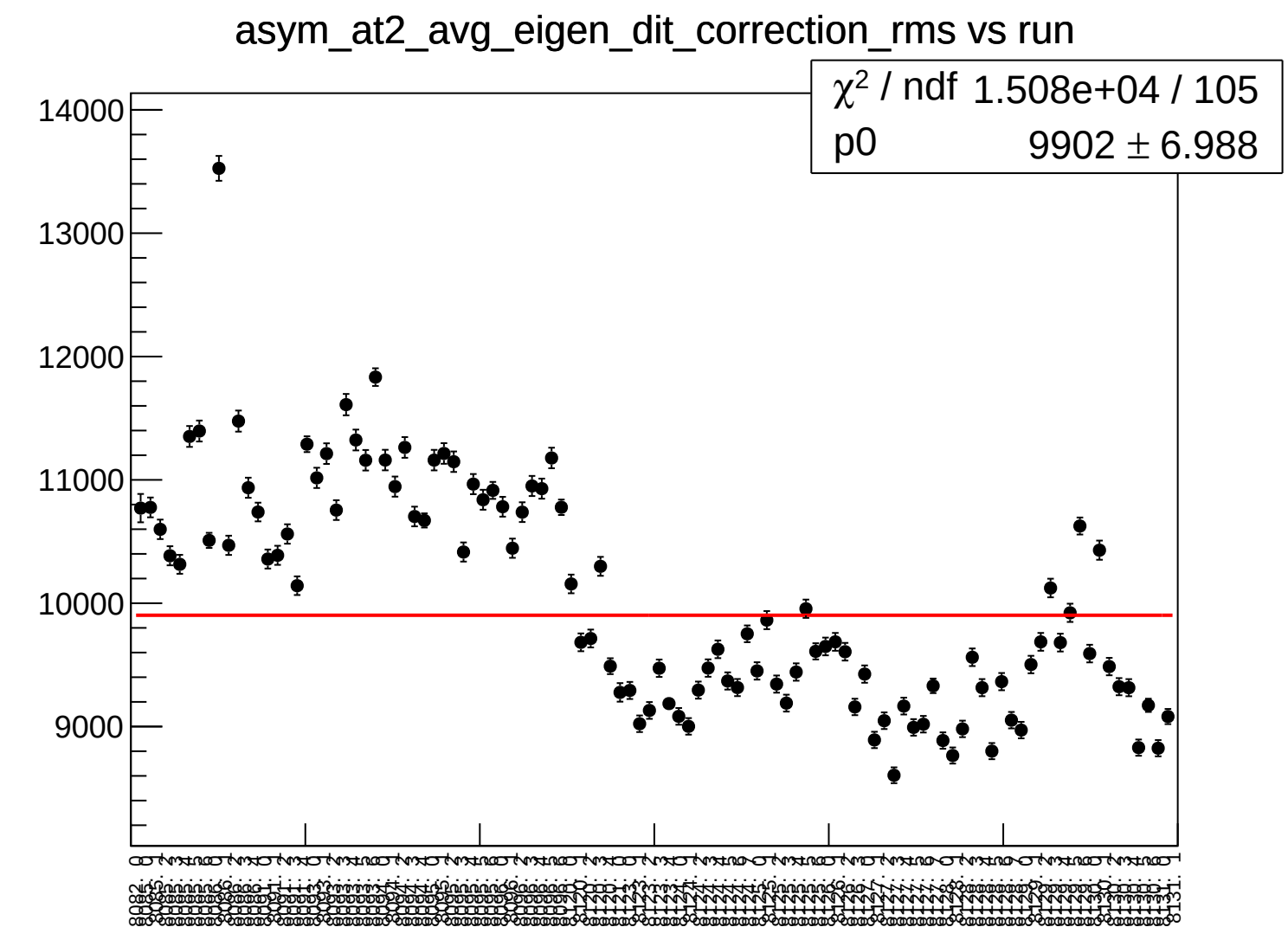

eigen_dit_asym_at2_avg_mean vs run
χ² / ndf 89.64 / 104
p0 −3384 ± 1601
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean −463.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

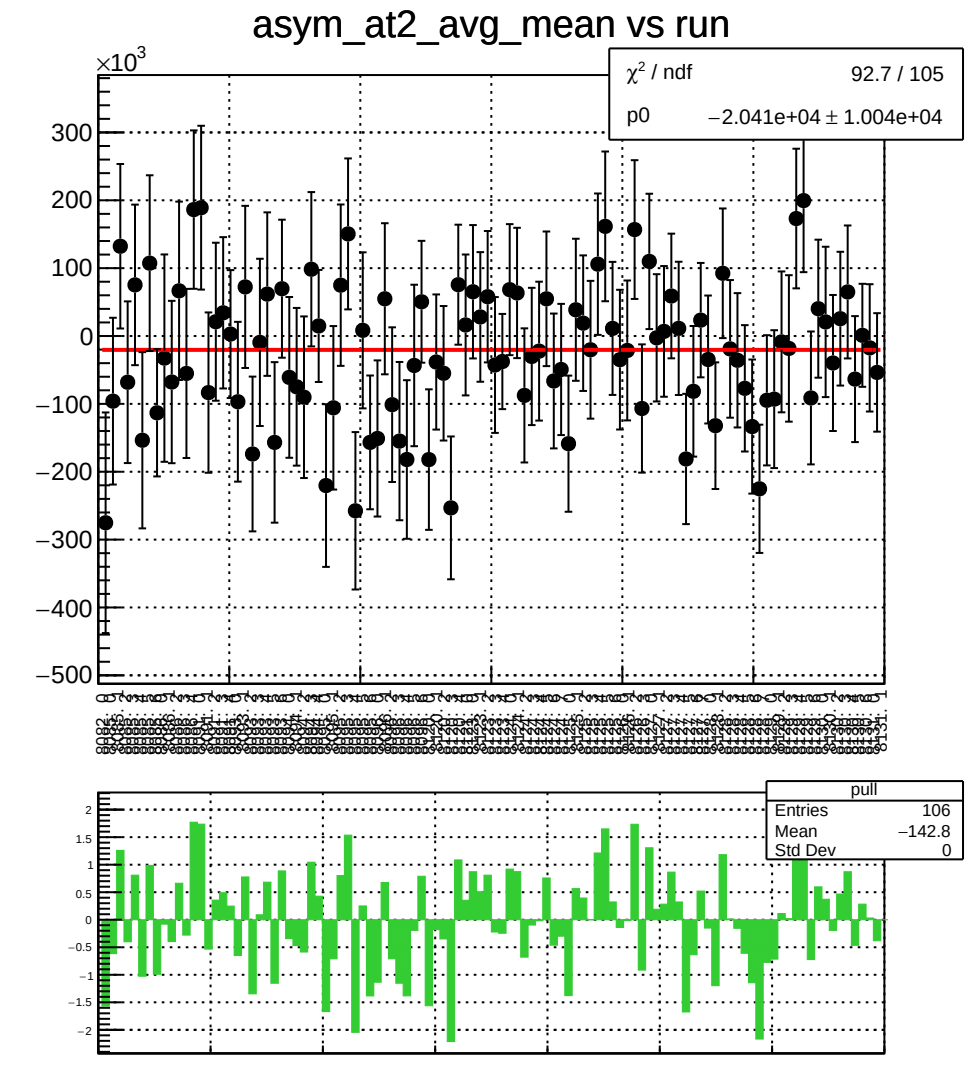

pull1D
Entries 105
Mean 0.008824
Std Dev 0.9239
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

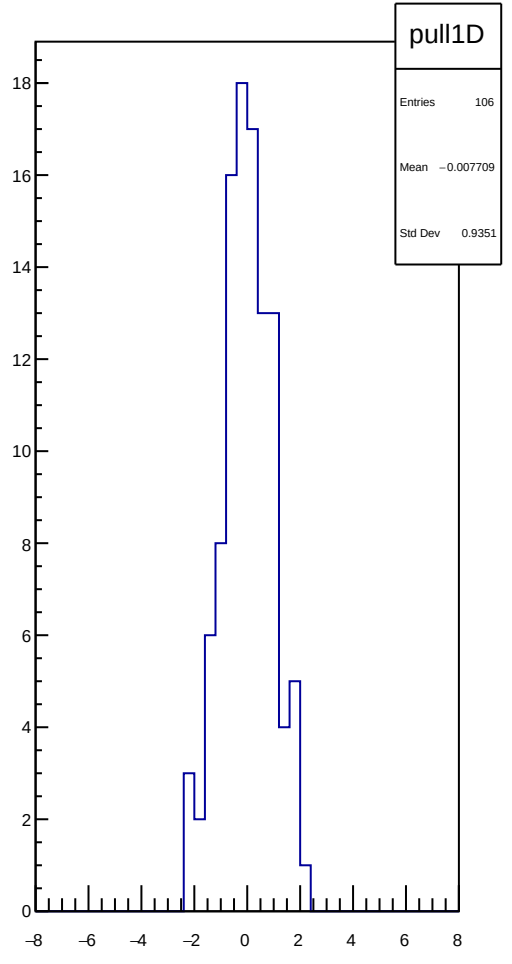

eigen_dit_asym_at2_avg_rms vs run
$\chi^2$ / ndf 7995 / 104
p0 1604 ± 1.132
2000
1900
1800
1700
1600
1500

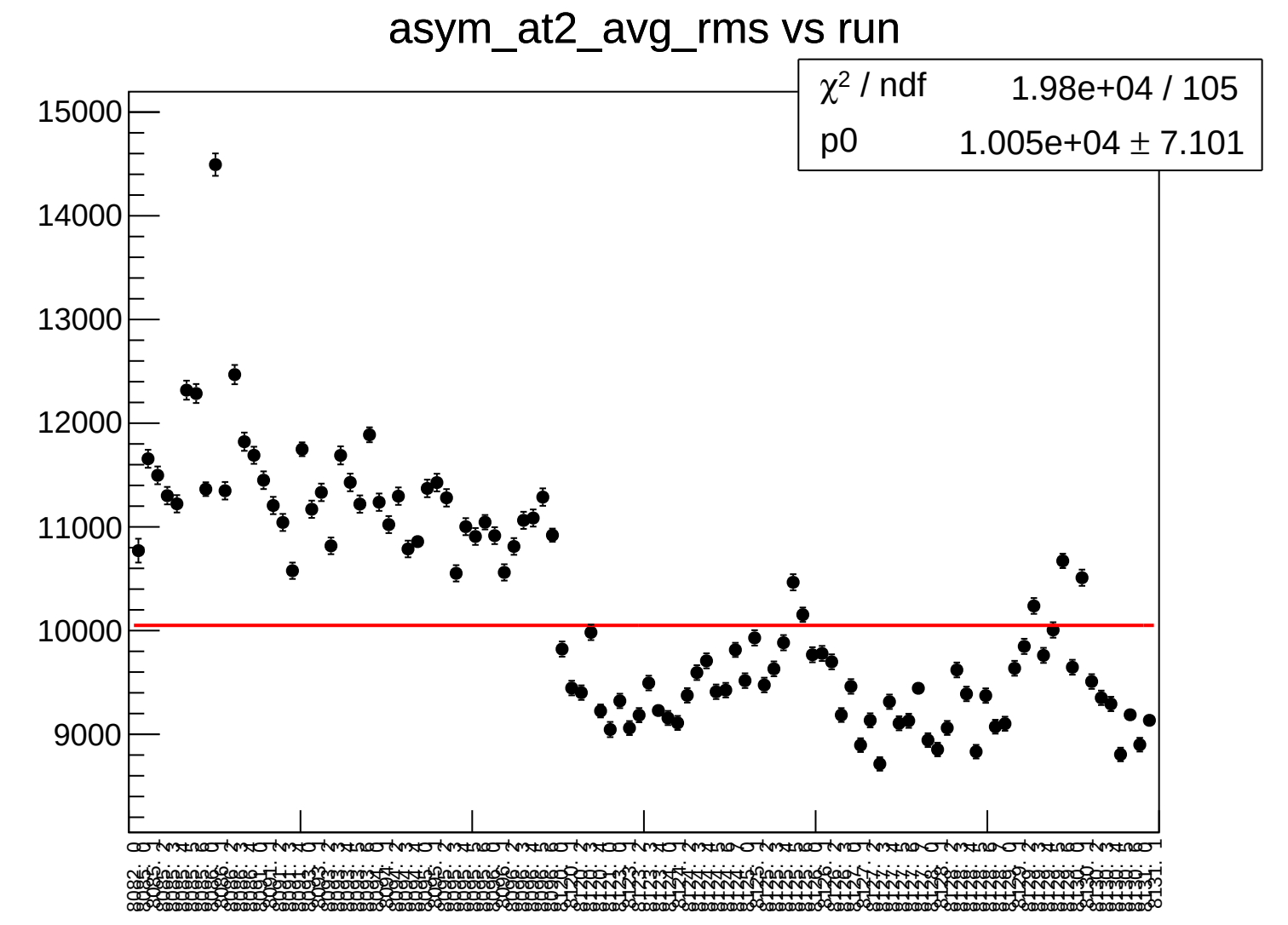

asym_at2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 90.48 / 105
p0 1.625e+04 ± 9883
pull
Entries 106
Mean −119.4
Std Dev 0

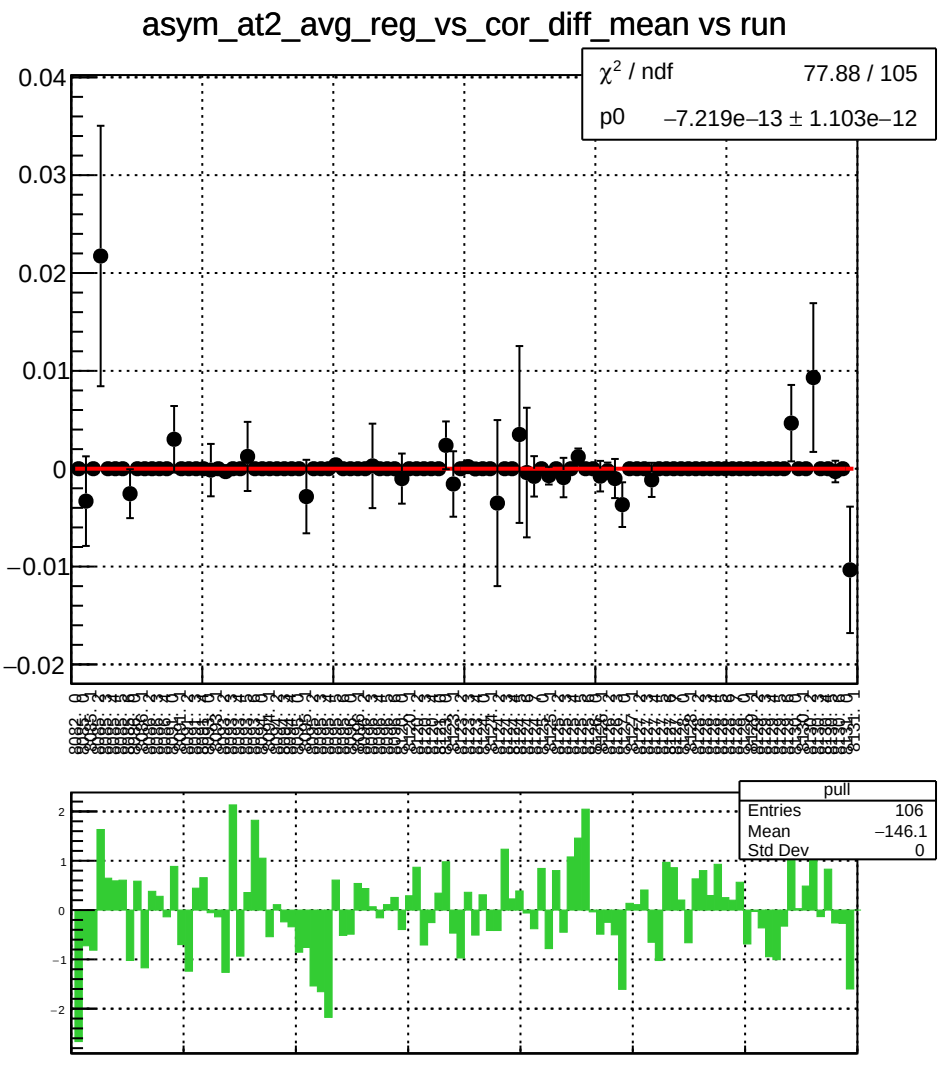

pull1D
Entries 106
Mean 0.01276
Std Dev 0.9238

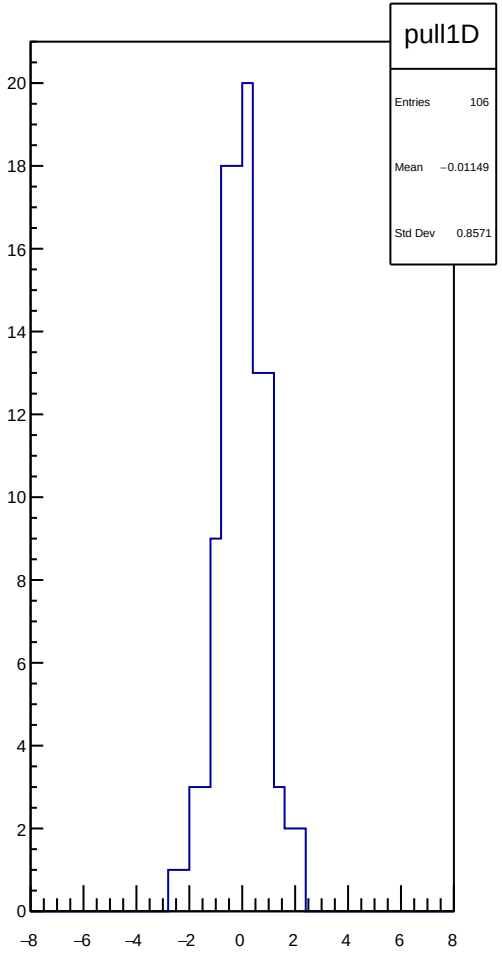

asym_at2_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.508e+04 / 105
p0 9902 ± 6.988
14000
13000
12000
11000
10000
9000

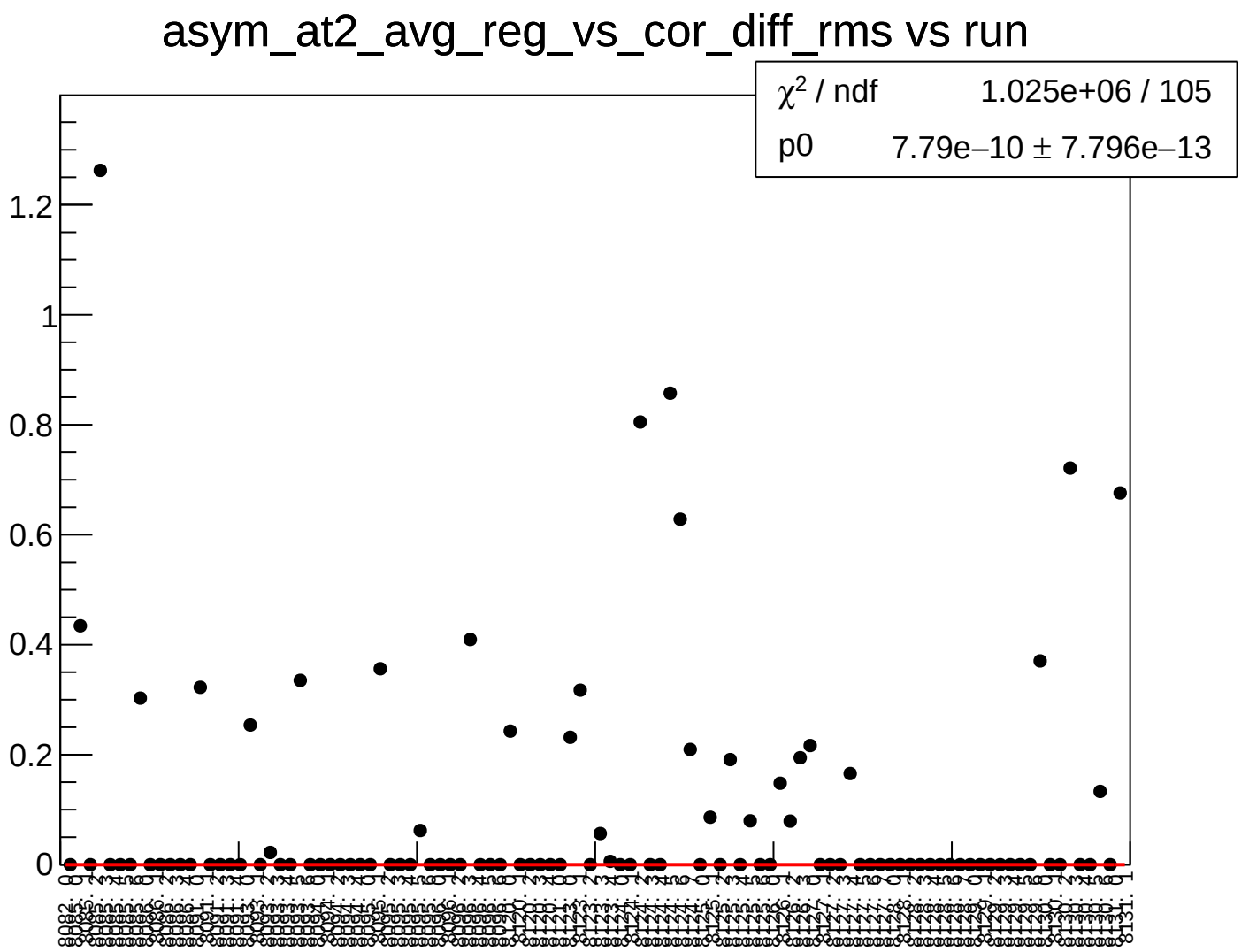

asym_at2_avg_mean vs run
×10^3
χ² / ndf 92.7 / 105
p0 −2.041e+04 ± 1.004e+04
300
200
100
0
−100
−200
−300
−400
−500
pull
Entries 106
Mean −142.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

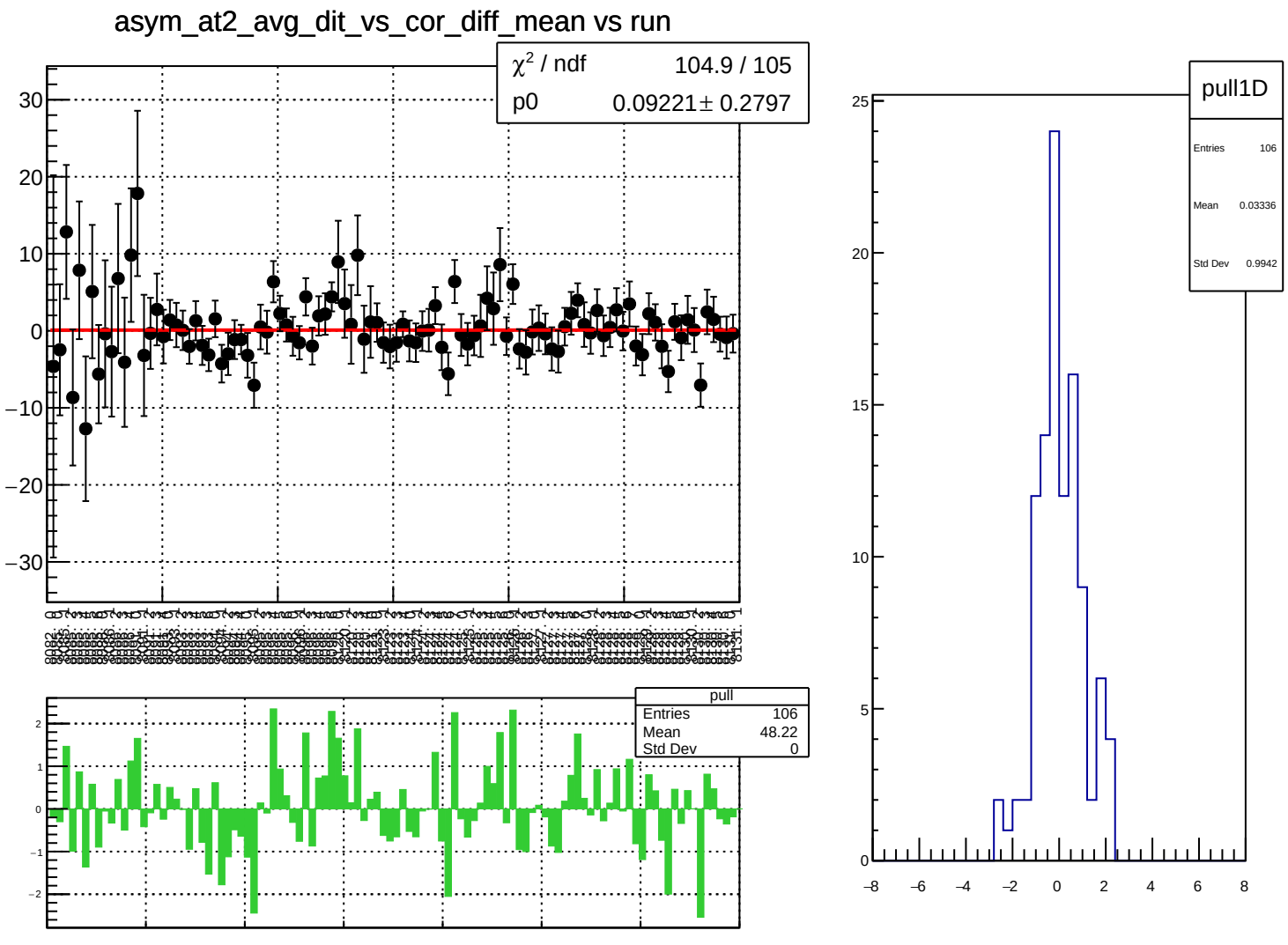

pull1D
Entries 106
Mean −0.007709
Std Dev 0.9351
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

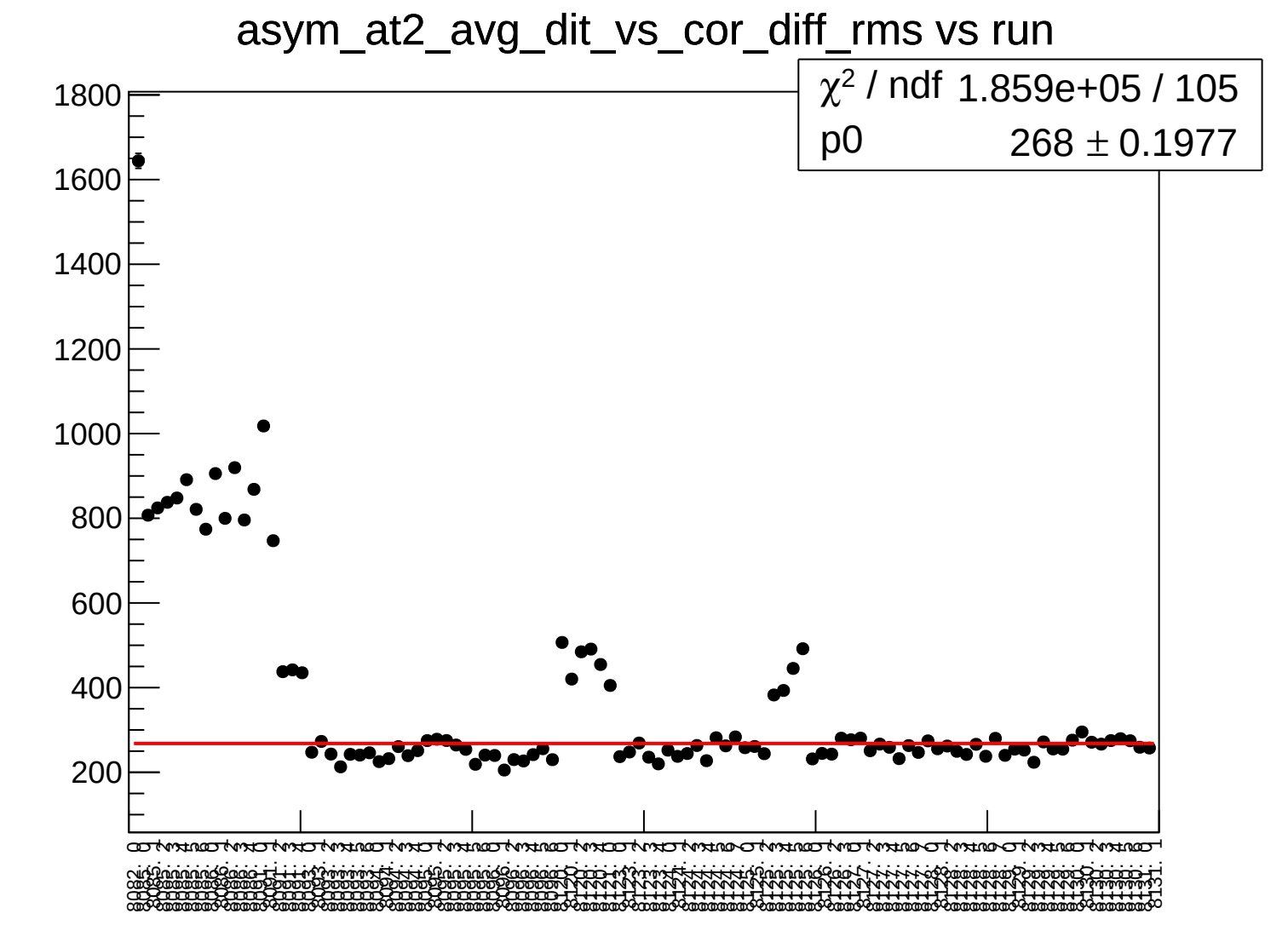

asym_at2_avg_rms vs run
χ² / ndf 1.98e+04 / 105
p0 1.005e+04 ± 7.101
15000
14000
13000
12000
11000
10000
9000

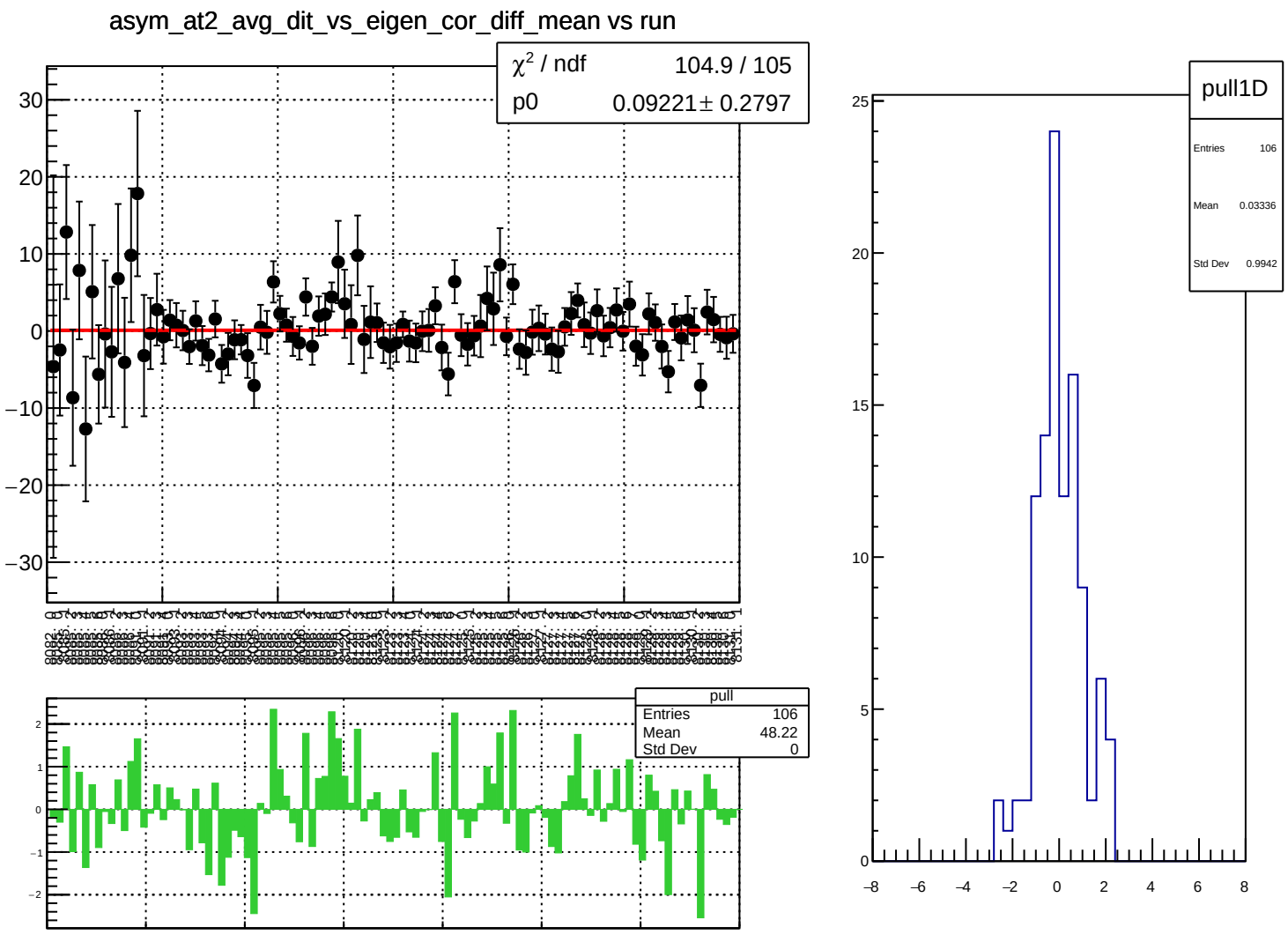

asym_at2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 77.88 / 105
p0 −7.219e−13 ± 1.103e−12
0.04
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 106
Mean −146.1
Std Dev 0
2
1
0
−1
−2

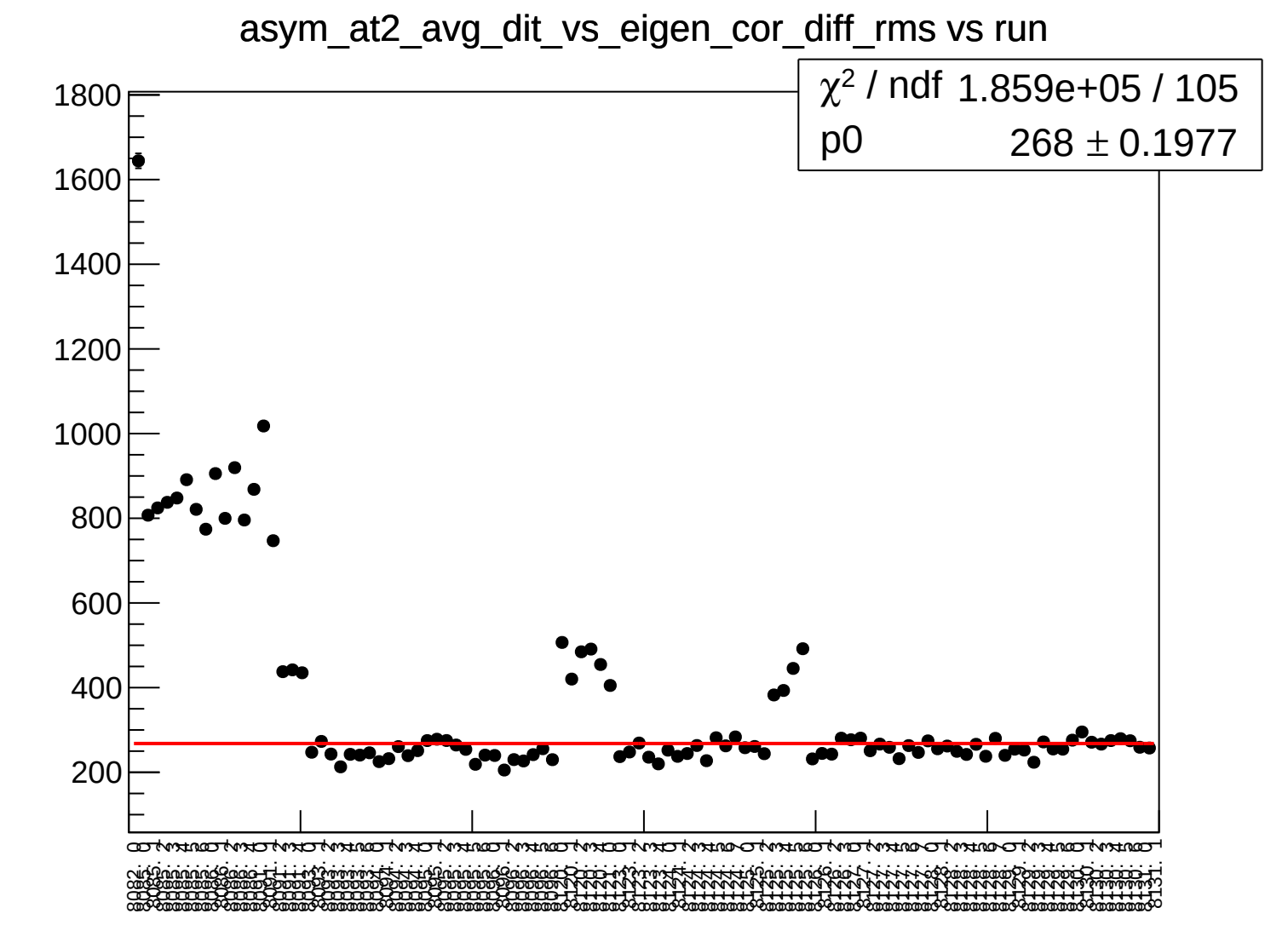

pull1D
Entries 106
Mean −0.01149
Std Dev 0.8571
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

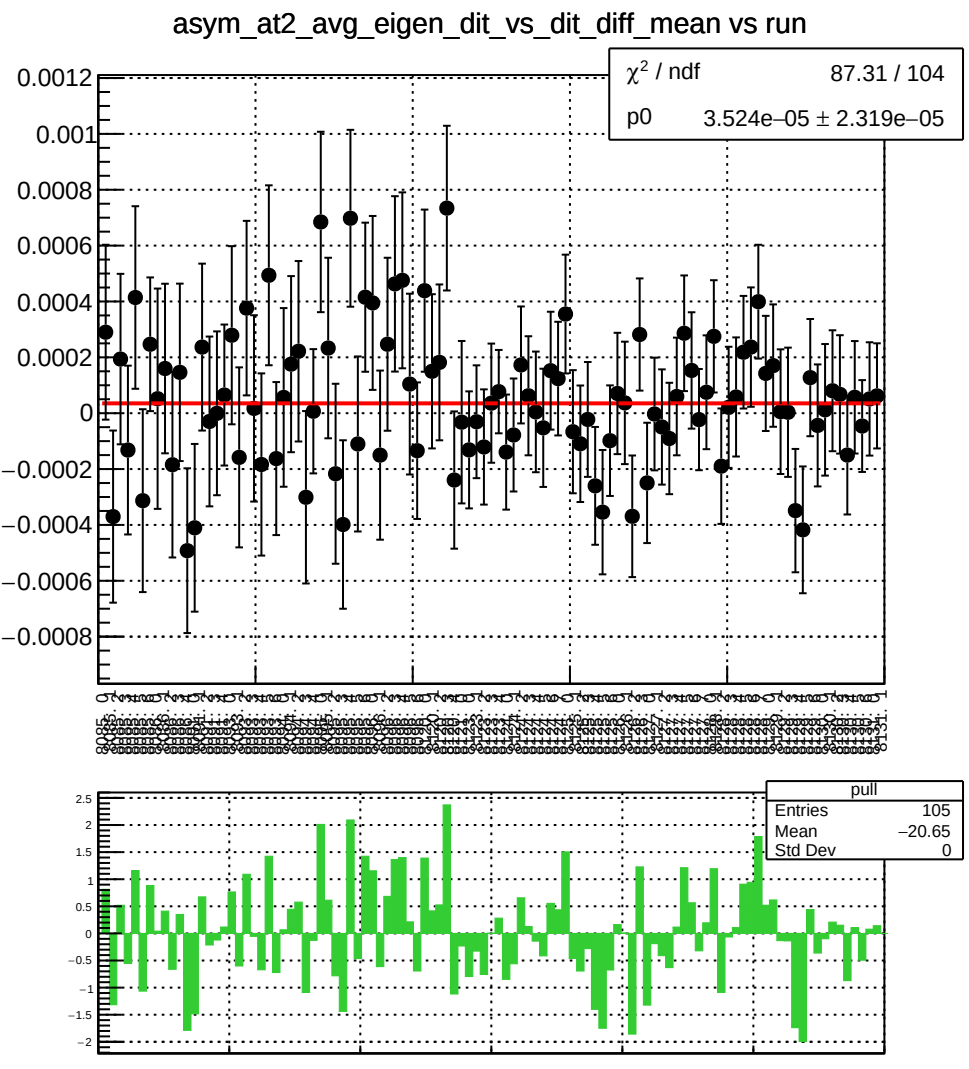

asym_at2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.025e+06 / 105
p0 7.79e−10 ± 7.796e−13
1.2
1
0.8
0.6
0.4
0.2
0

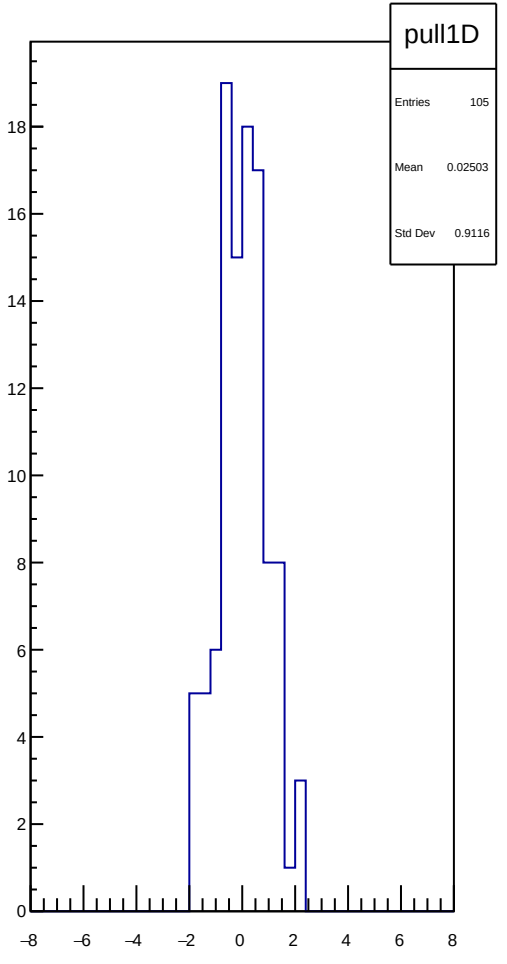

asym_at2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 104.9 / 105
p0 0.09221 ± 0.2797
pull
Entries 106
Mean 48.22
Std Dev 0
pull1D
Entries 106
Mean 0.03336
Std Dev 0.9942

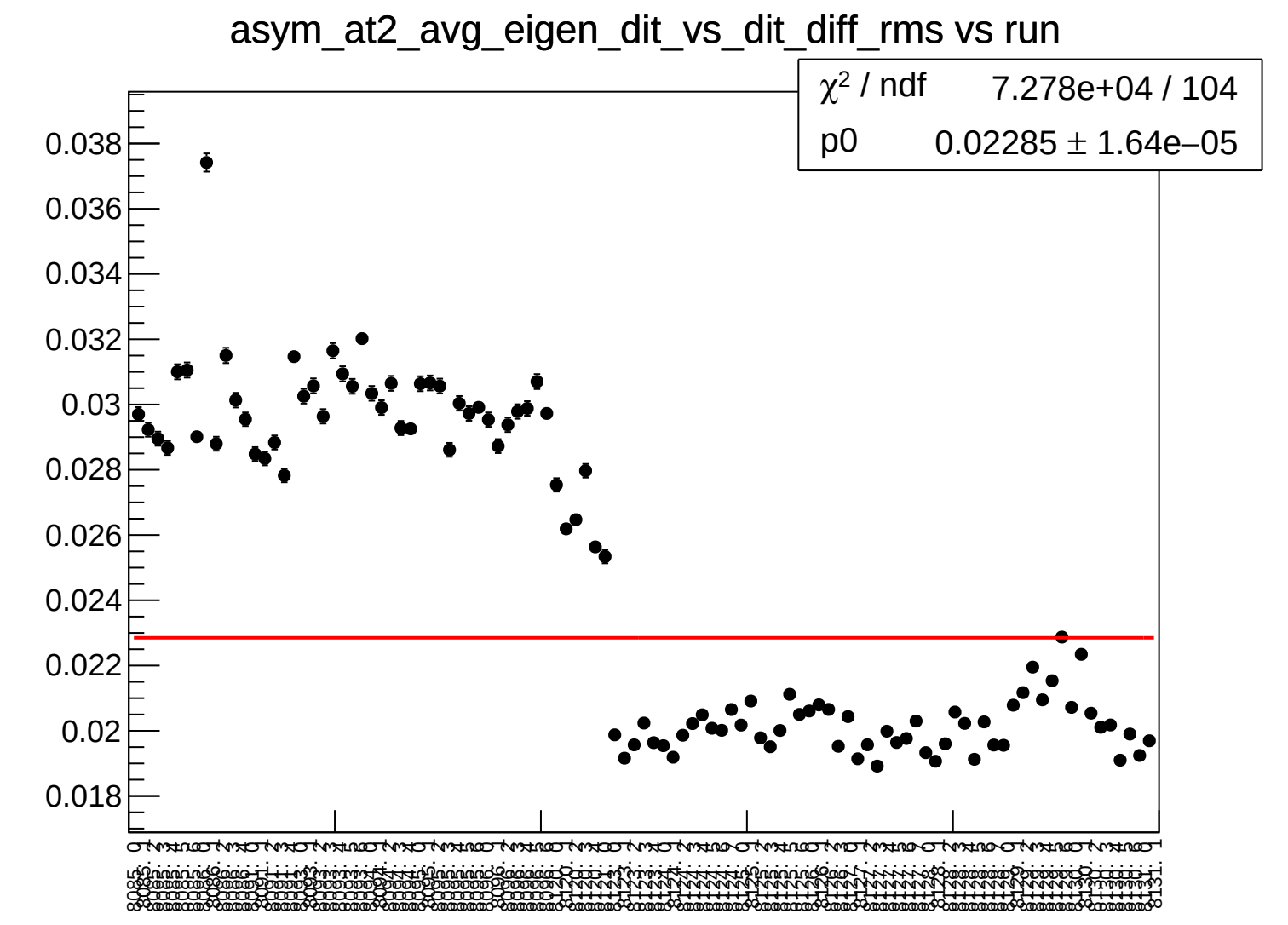

asym_at2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.859e+05 / 105
p0 268 ± 0.1977
1800
1600
1400
1200
1000
800
600
400
200

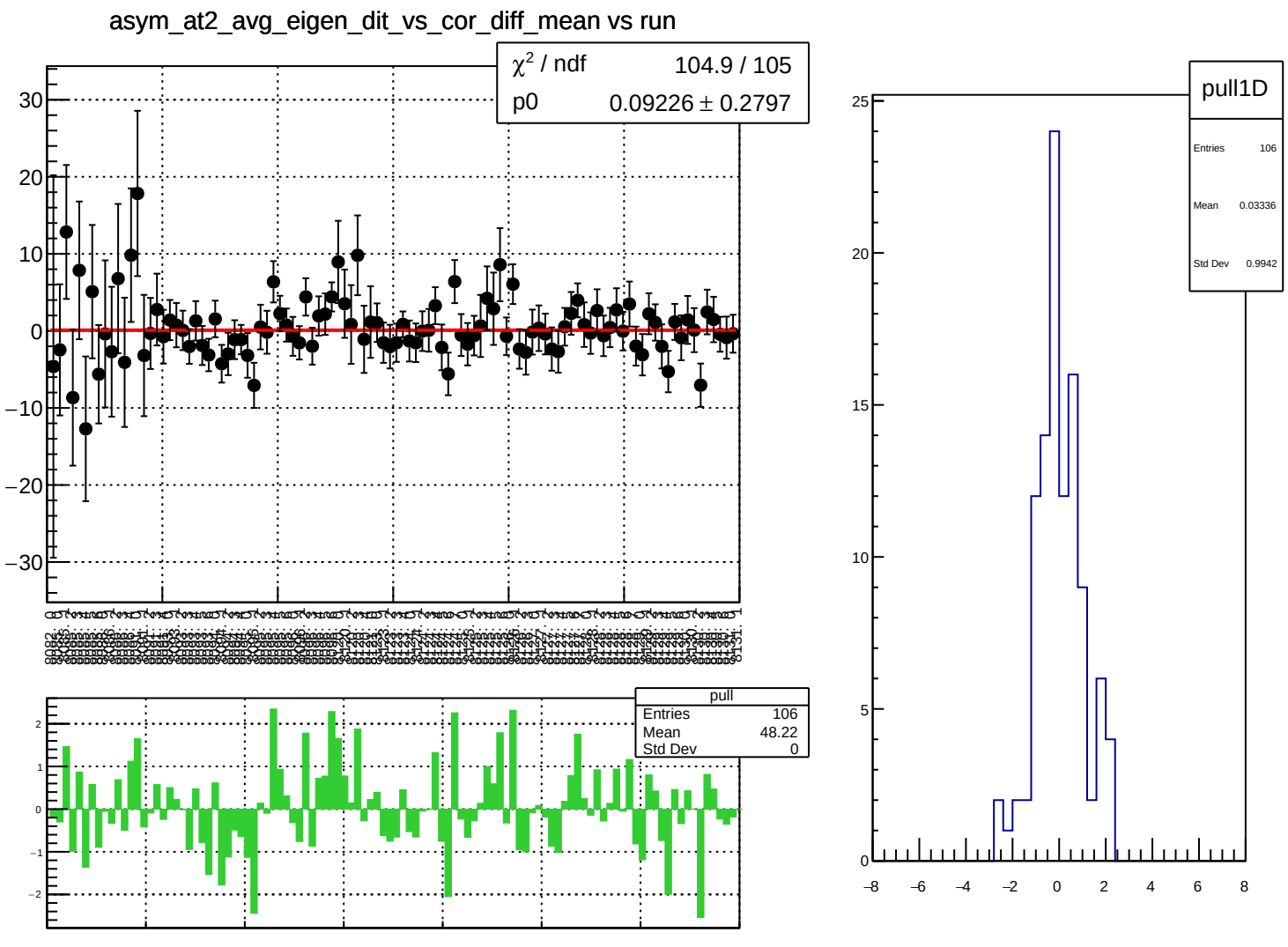

asym_at2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.9 / 105
p0 0.09221 ± 0.2797
pull
Entries 106
Mean 48.22
Std Dev 0
pull1D
Entries 106
Mean 0.03336
Std Dev 0.9942

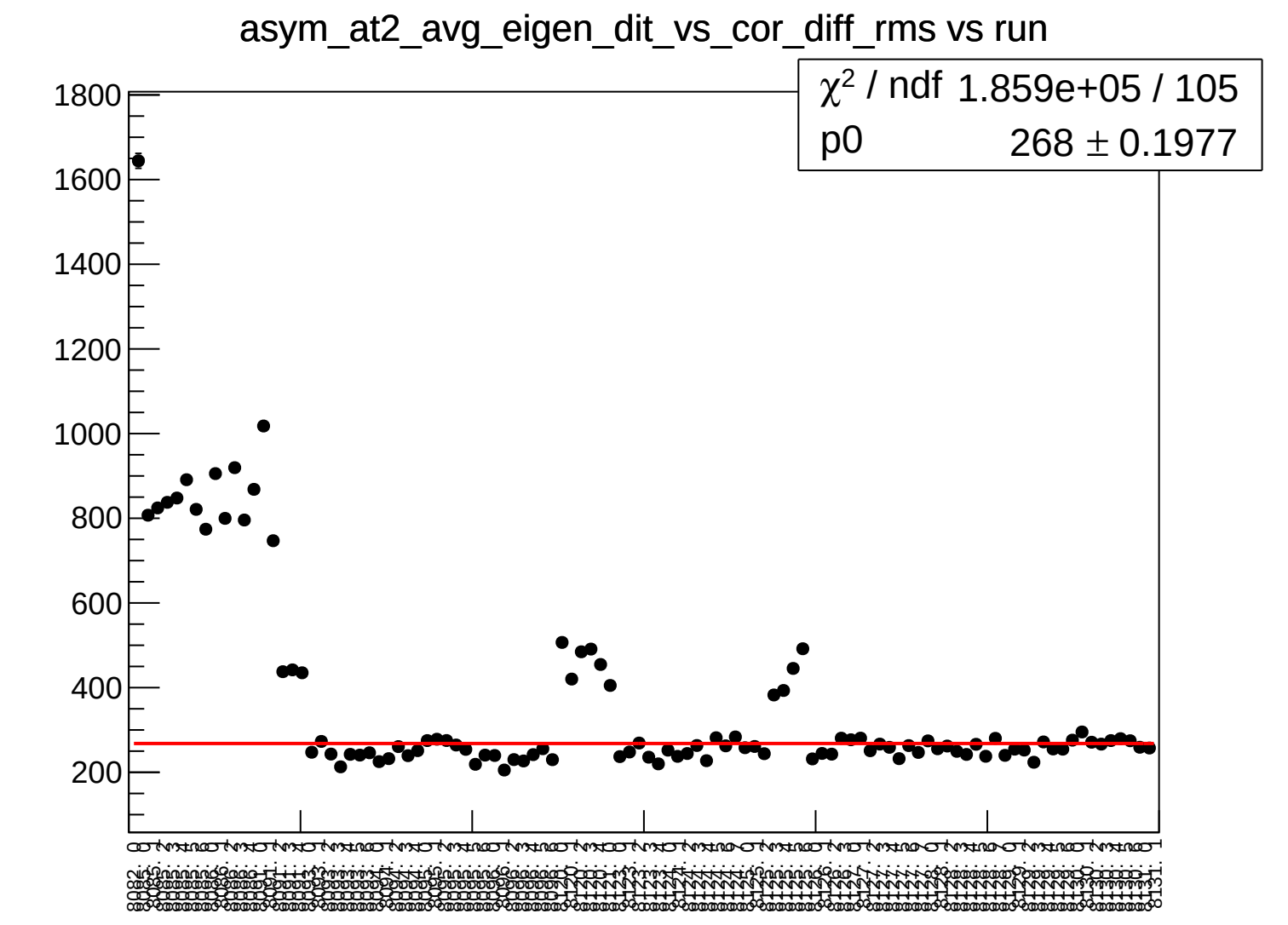

asym_at2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.859e+05 / 105
p0 268 ± 0.1977
1800
1600
1400
1200
1000
800
600
400
200

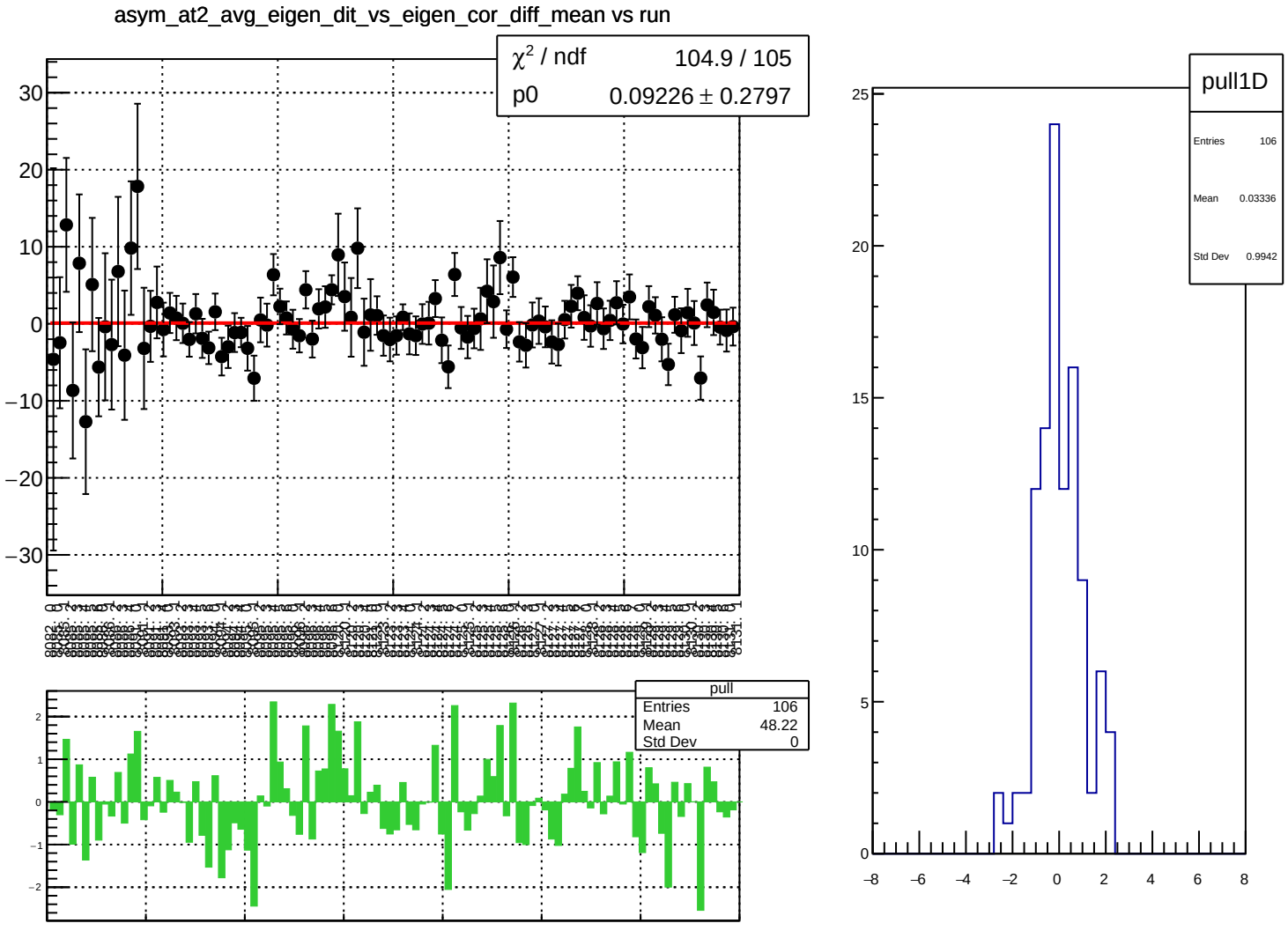

asym_at2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 87.31 / 104
p0 3.524e−05 ± 2.319e−05
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
pull
Entries 105
Mean −20.65
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

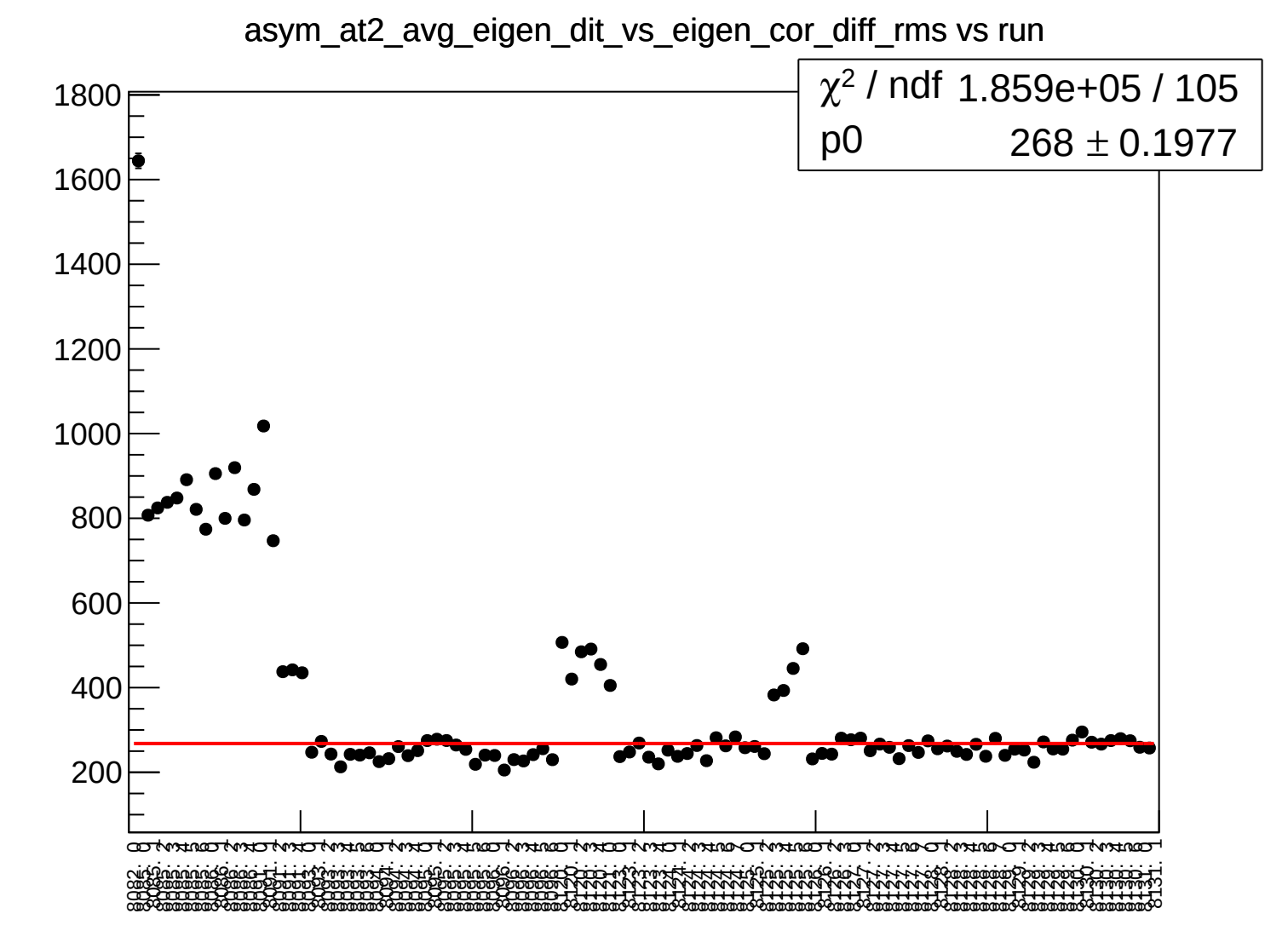

pull1D
Entries 105
Mean 0.02503
Std Dev 0.9116
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

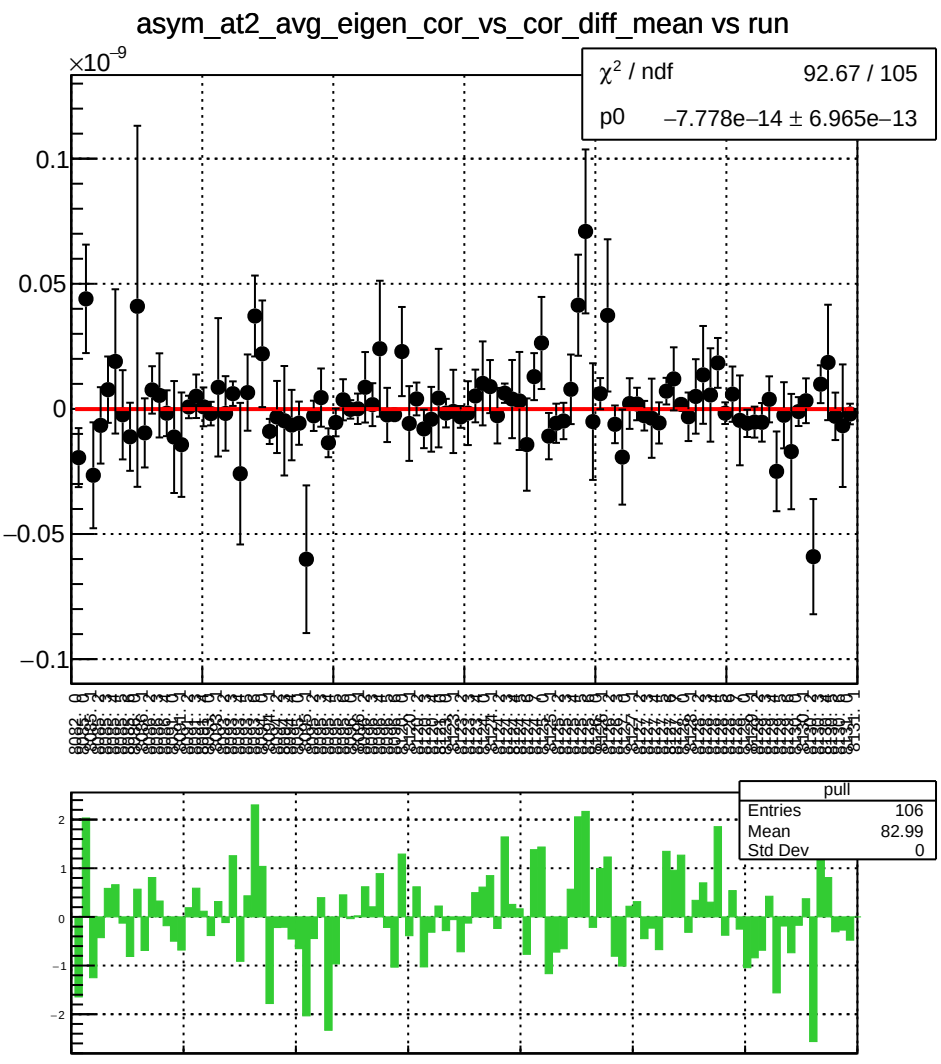

asym_at2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.278e+04 / 104
p0 0.02285 ± 1.64e−05
0.038
0.036
0.034
0.032
0.03
0.028
0.026
0.024
0.022
0.02
0.018

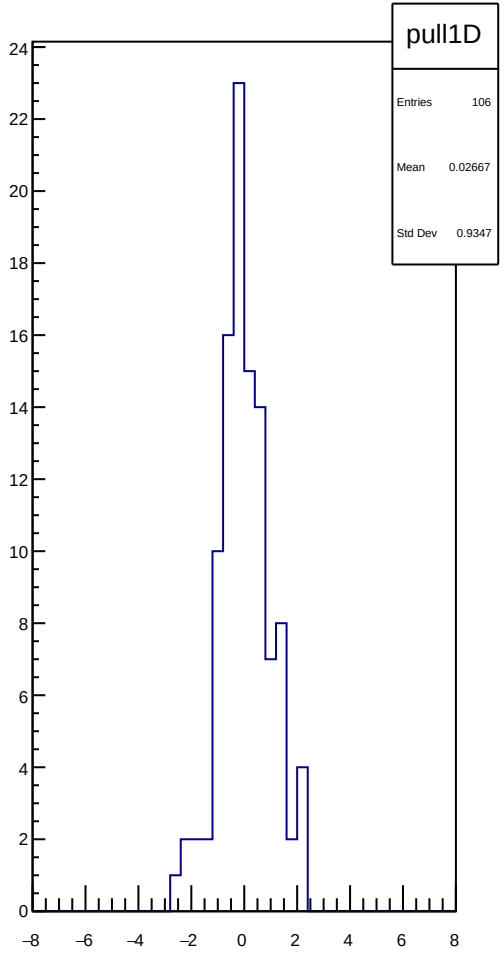

asym_at2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 104.9 / 105
p0 0.09226 ± 0.2797
pull
Entries 106
Mean 48.22
Std Dev 0
pull1D
Entries 106
Mean 0.03336
Std Dev 0.9942

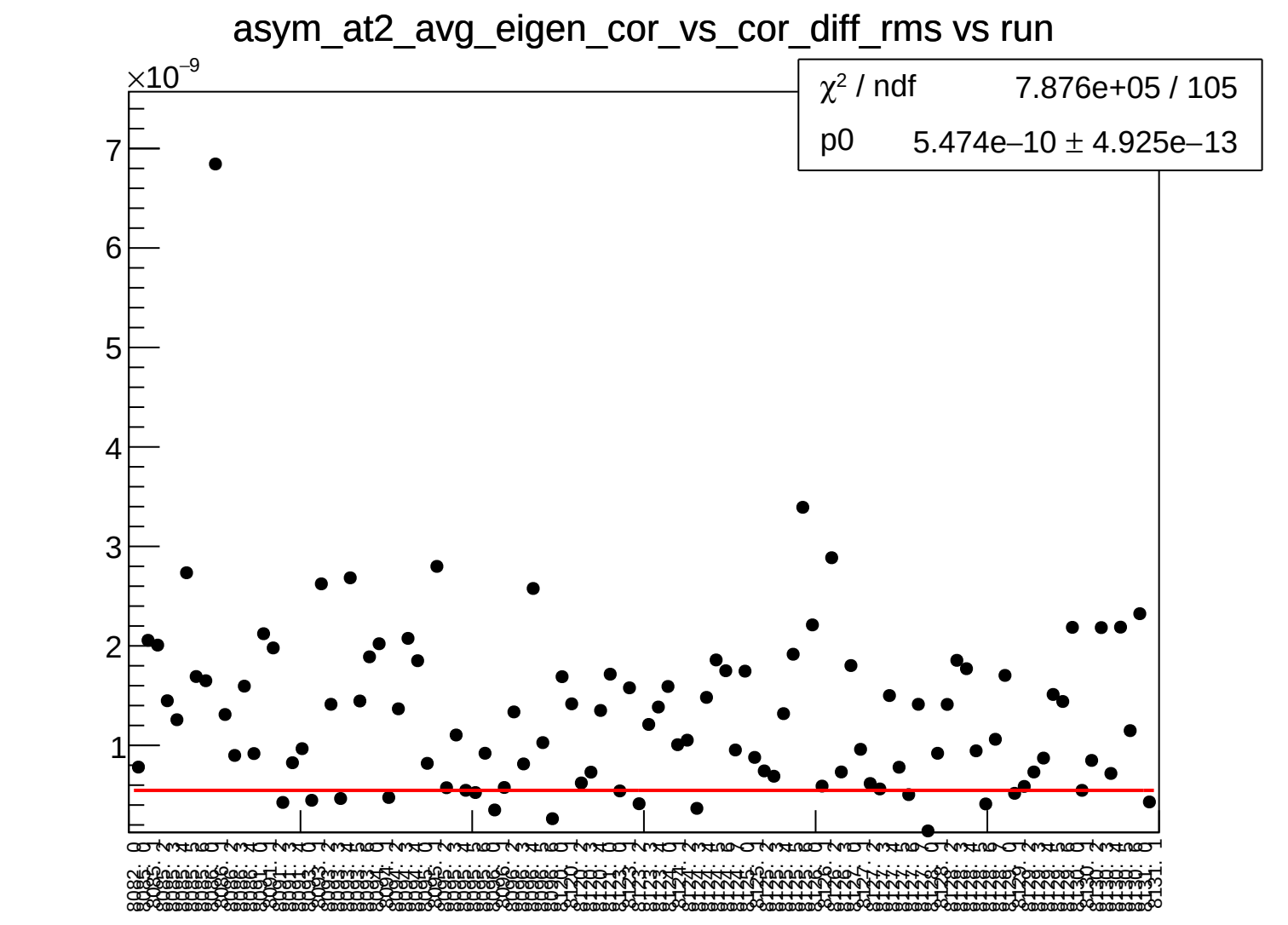

asym_at2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.859e+05 / 105
p0 268 ± 0.1977
1800
1600
1400
1200
1000
800
600
400
200

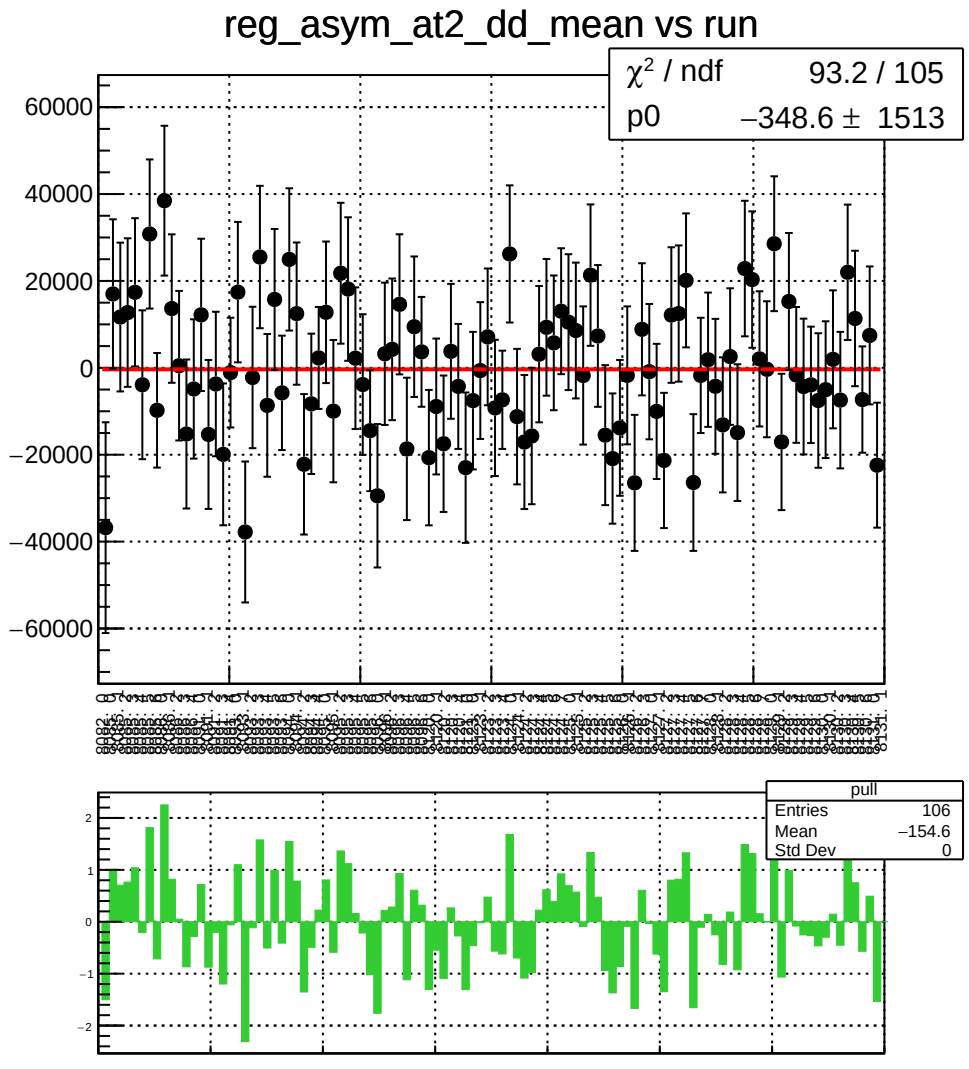

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.9 / 105
p0 0.09226 ± 0.2797
pull
Entries 106
Mean 48.22
Std Dev 0
pull1D
Entries 106
Mean 0.03336
Std Dev 0.9942

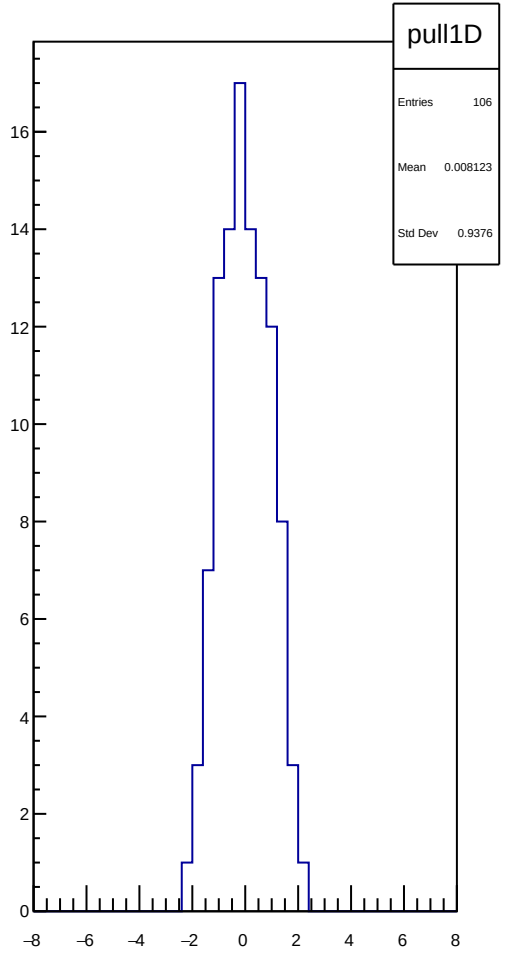

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.859e+05 / 105
p0 268 ± 0.1977
1800
1600
1400
1200
1000
800
600
400
200

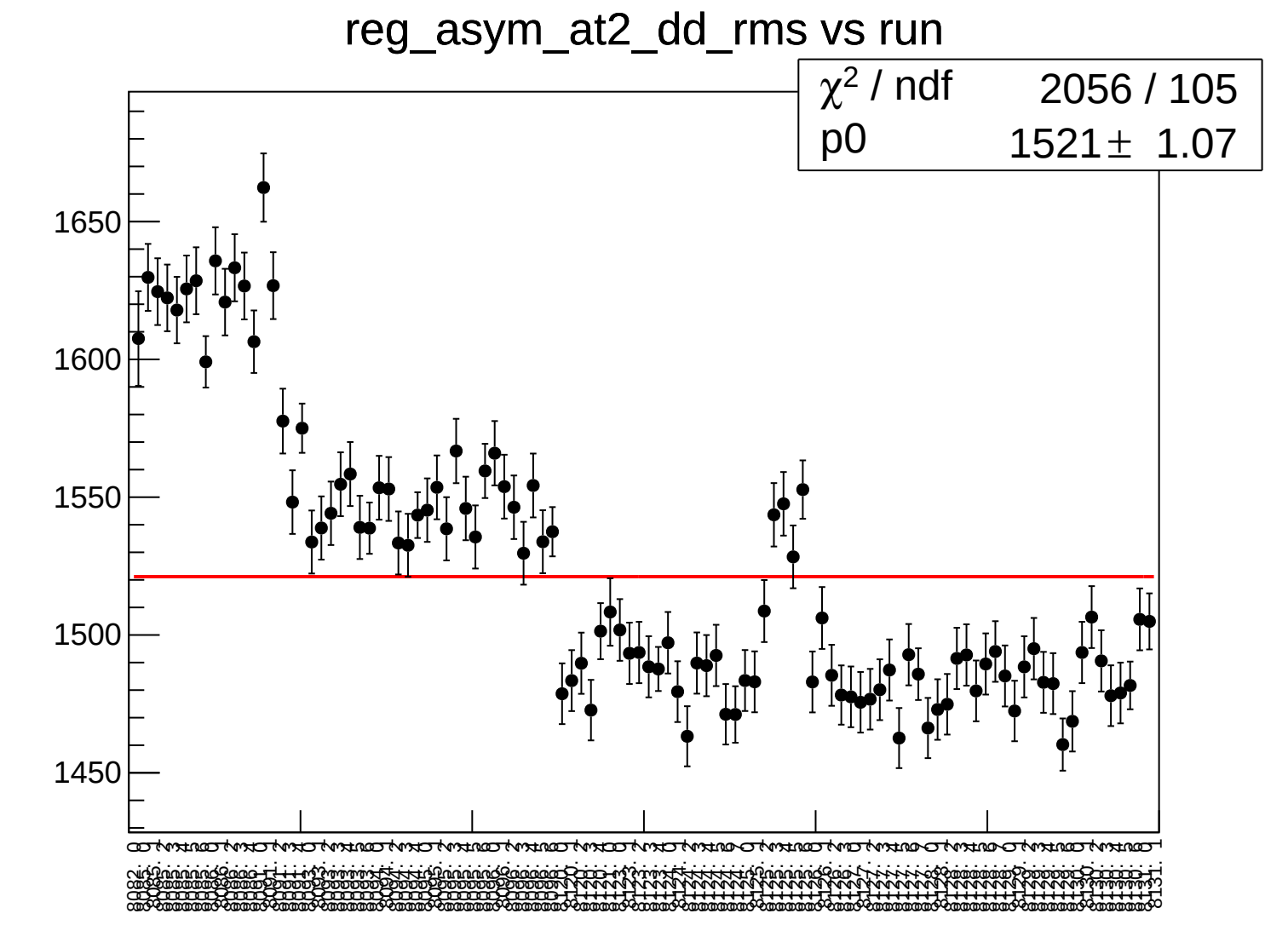

asym_at2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 92.67 / 105
p0 −7.778e−14 ± 6.965e−13
0.1
0.05
0
−0.05
−0.1
pull
Entries 106
Mean 82.99
Std Dev 0
2
1
0
−1
−2

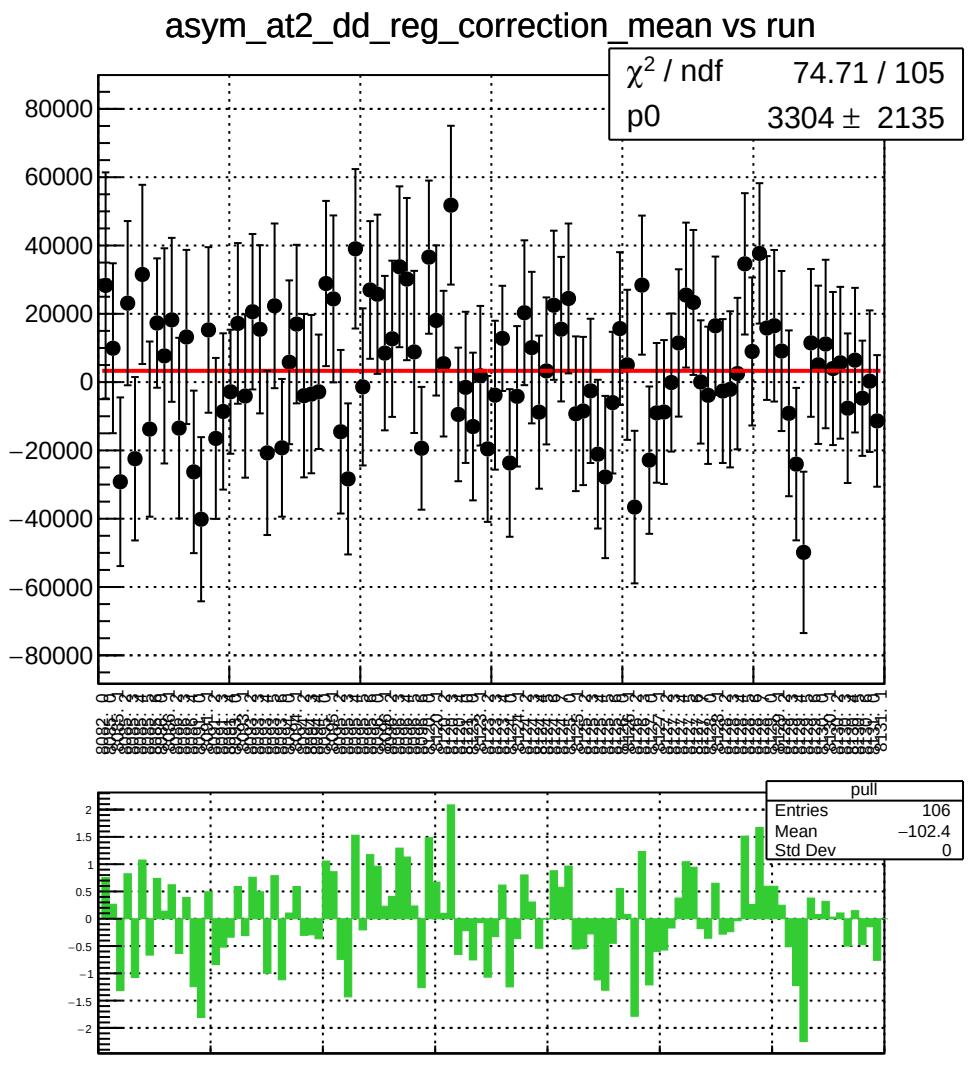

pull1D
Entries 106
Mean 0.02667
Std Dev 0.9347
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

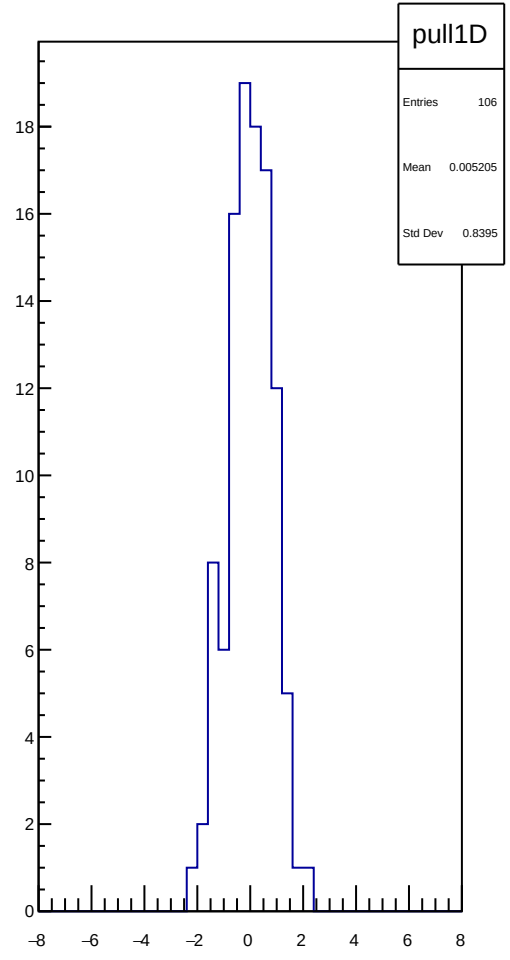

asym_at2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.876e+05 / 105
p0 5.474e−10 ± 4.925e−13
7
6
5
4
3
2
1

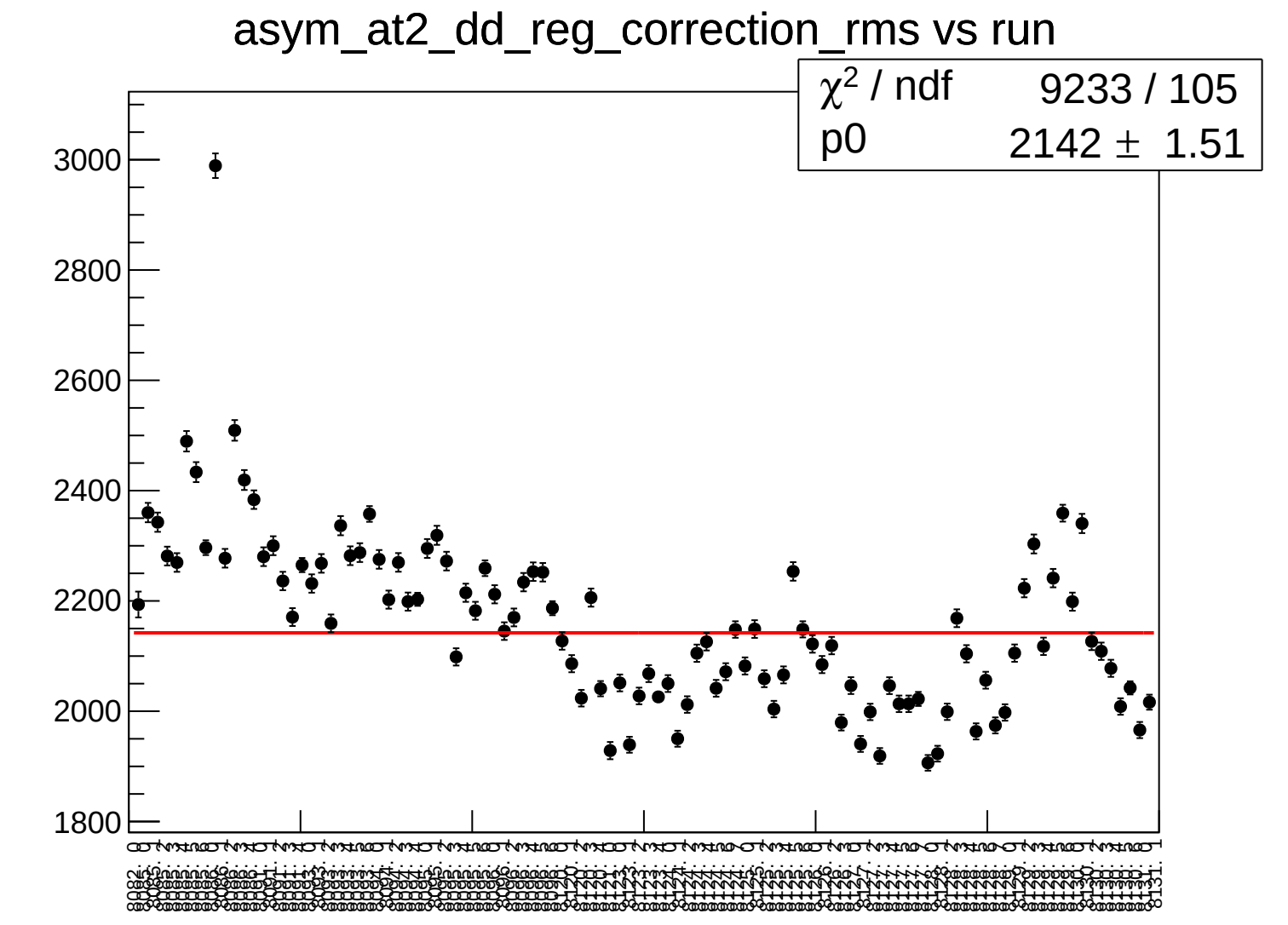

reg_asym_at2_dd_mean vs run
χ² / ndf 93.2 / 105
p0 −348.6 ± 1513
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean −154.6
Std Dev 0
2
1
0
−1
−2

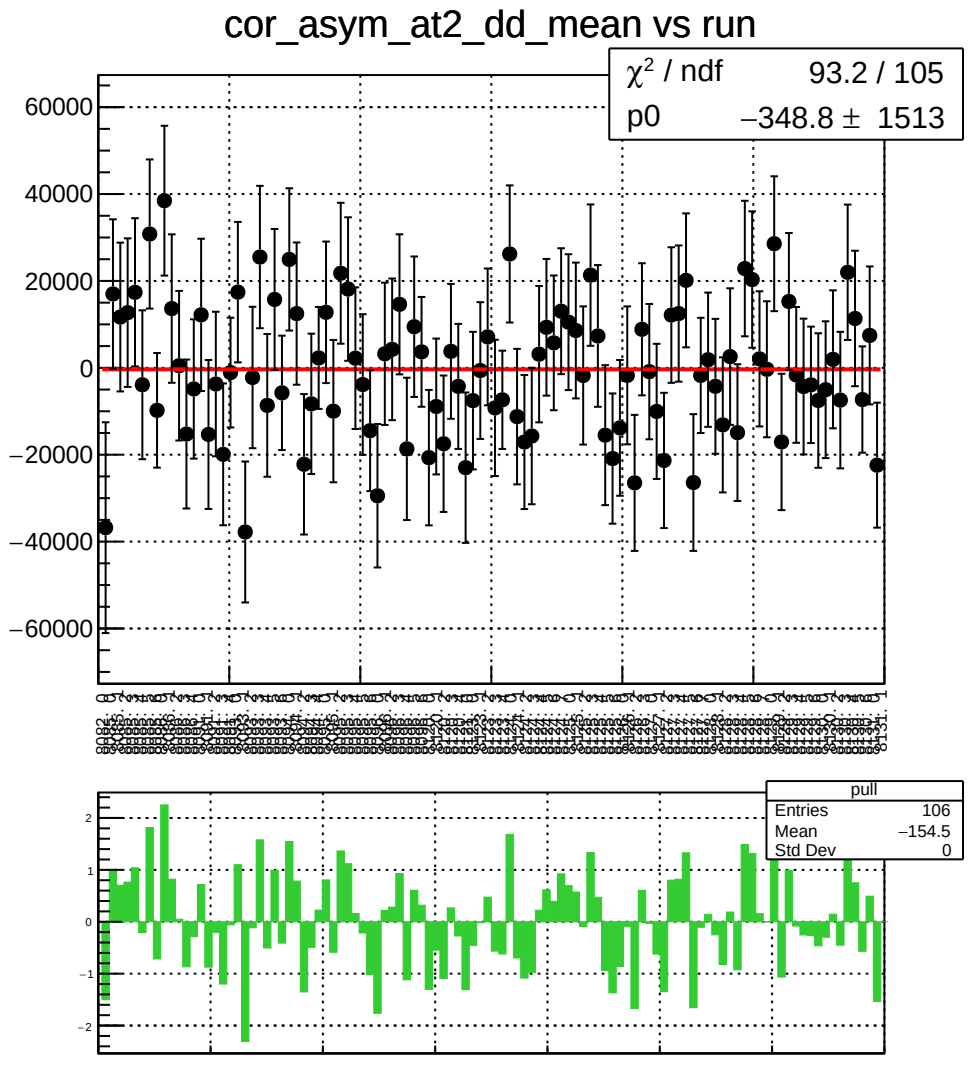

pull1D
Entries 106
Mean 0.008123
Std Dev 0.9376
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

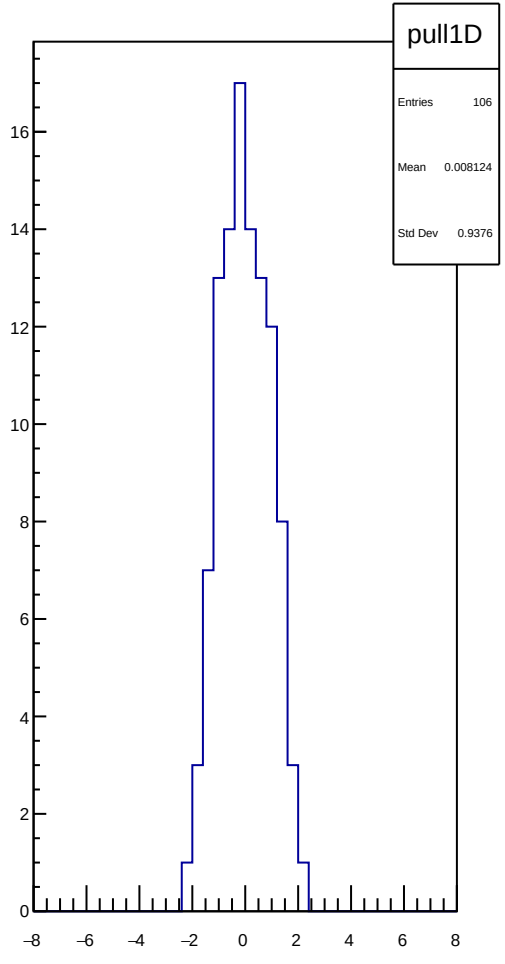

reg_asym_at2_dd_rms vs run
χ² / ndf 2056 / 105
p0 1521 ± 1.07
1650
1600
1550
1500
1450

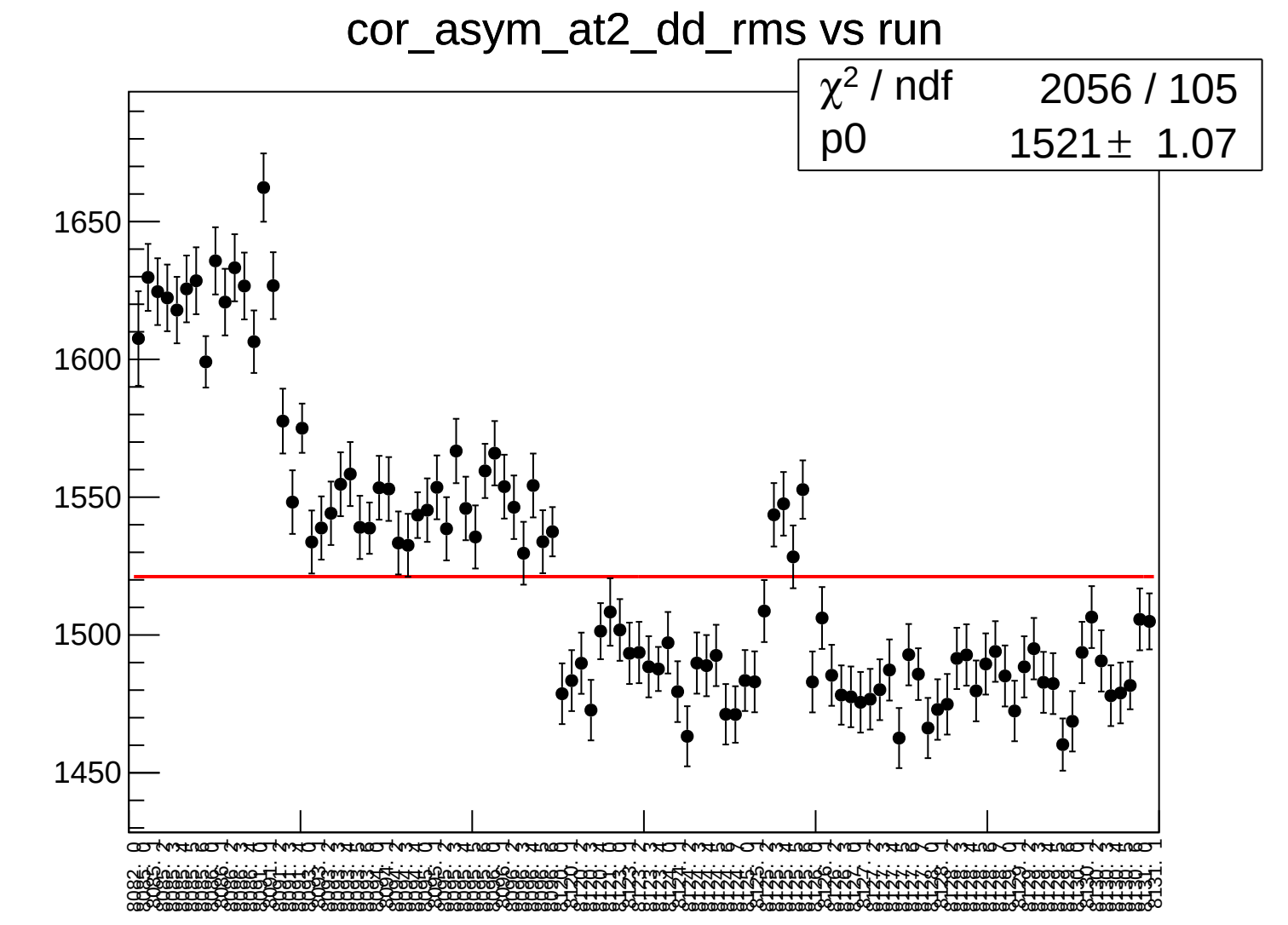

asym_at2_dd_reg_correction_mean vs run
χ² / ndf 74.71 / 105
p0 3304 ± 2135
pull
Entries 106
Mean −102.4
Std Dev 0

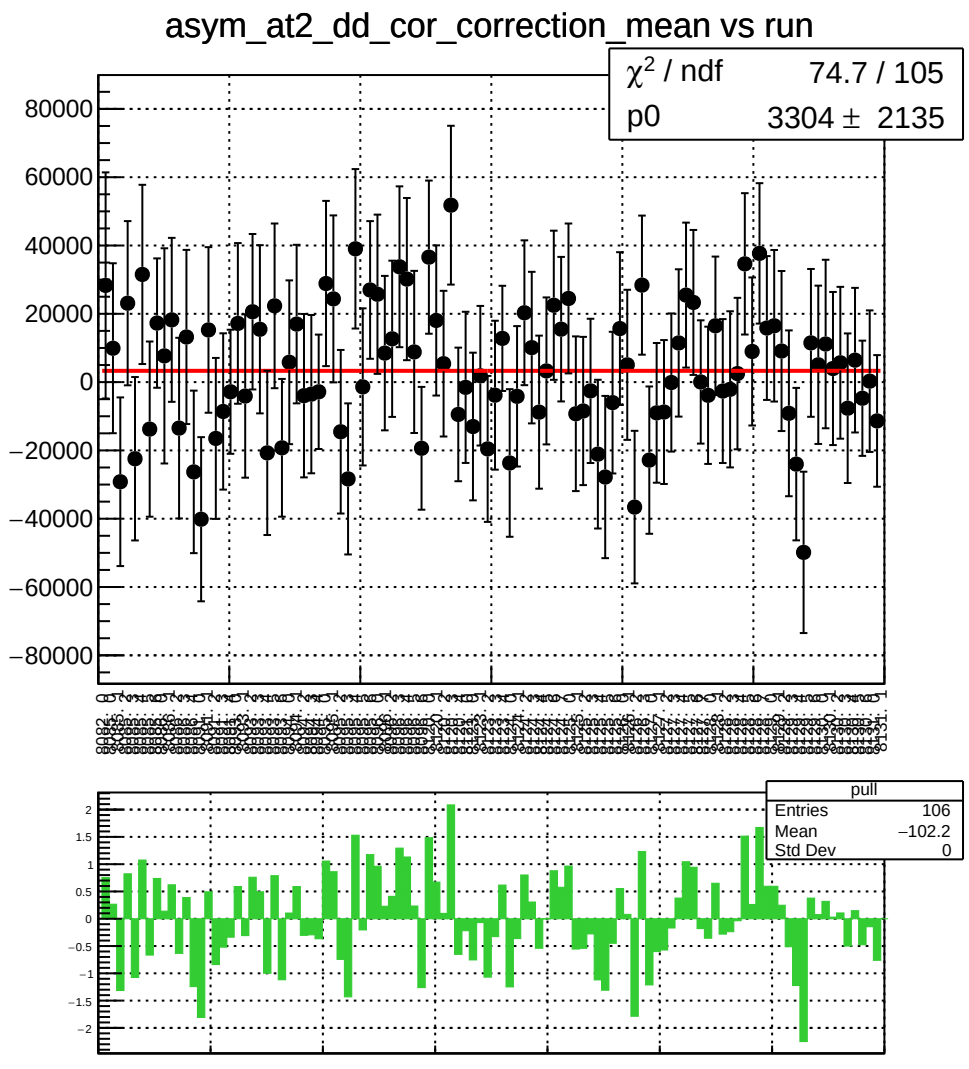

pull1D
Entries 106
Mean 0.005205
Std Dev 0.8395

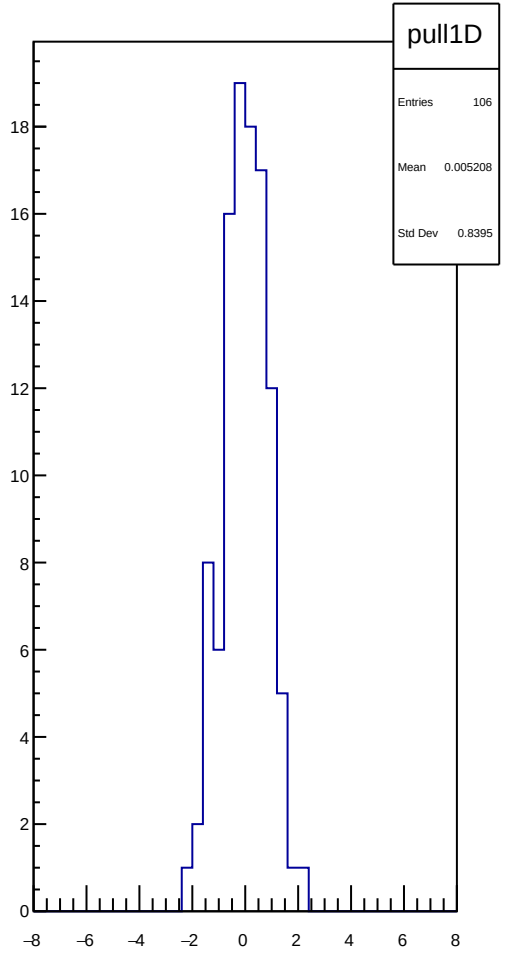

asym_at2_dd_reg_correction_rms vs run
χ² / ndf 9233 / 105
p0 2142 ± 1.51
3000
2800
2600
2400
2200
2000
1800

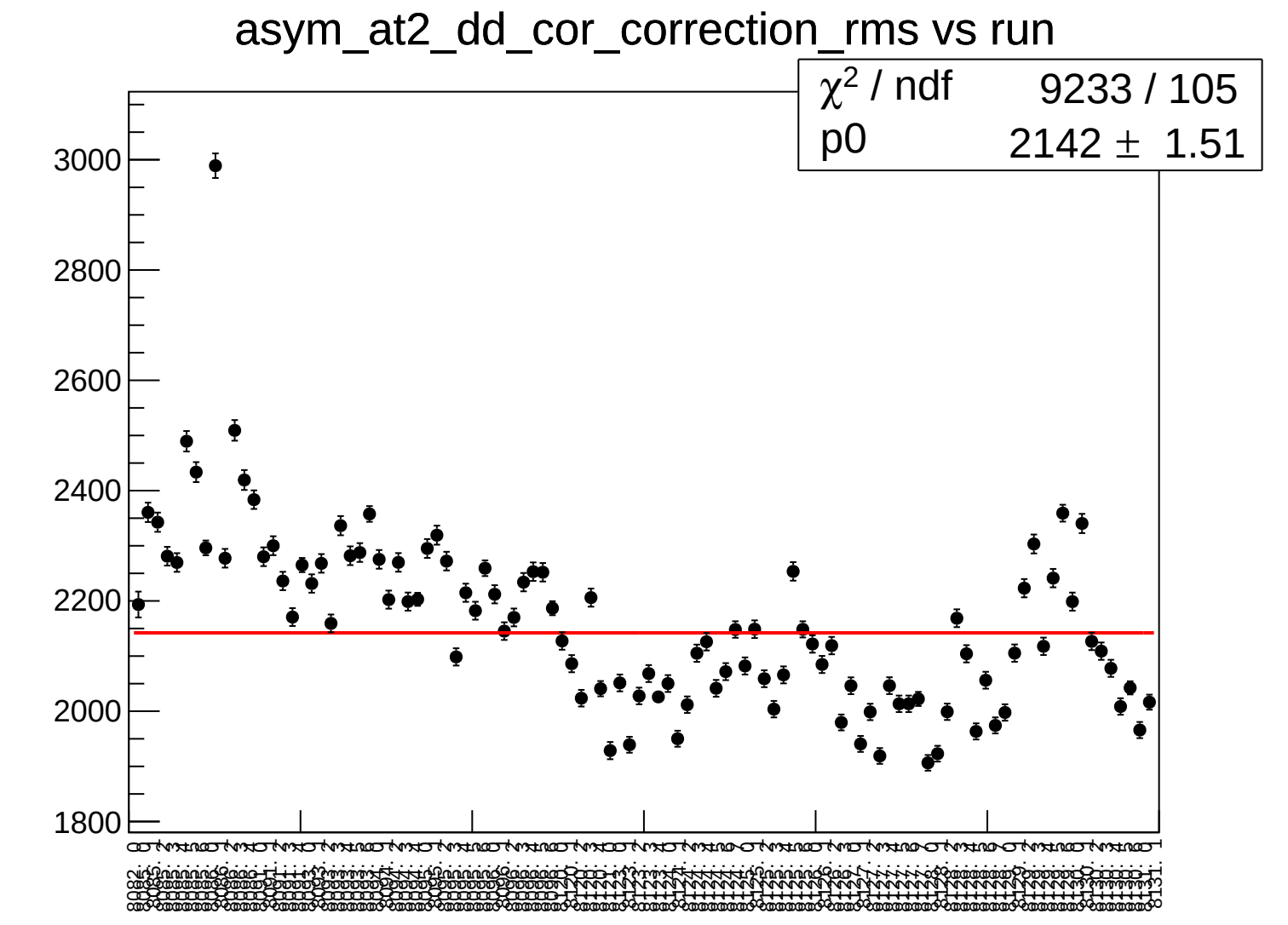

cor_asym_at2_dd_mean vs run
χ² / ndf 93.2 / 105
p0 −348.8 ± 1513
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean −154.5
Std Dev 0
2
1
0
−1
−2

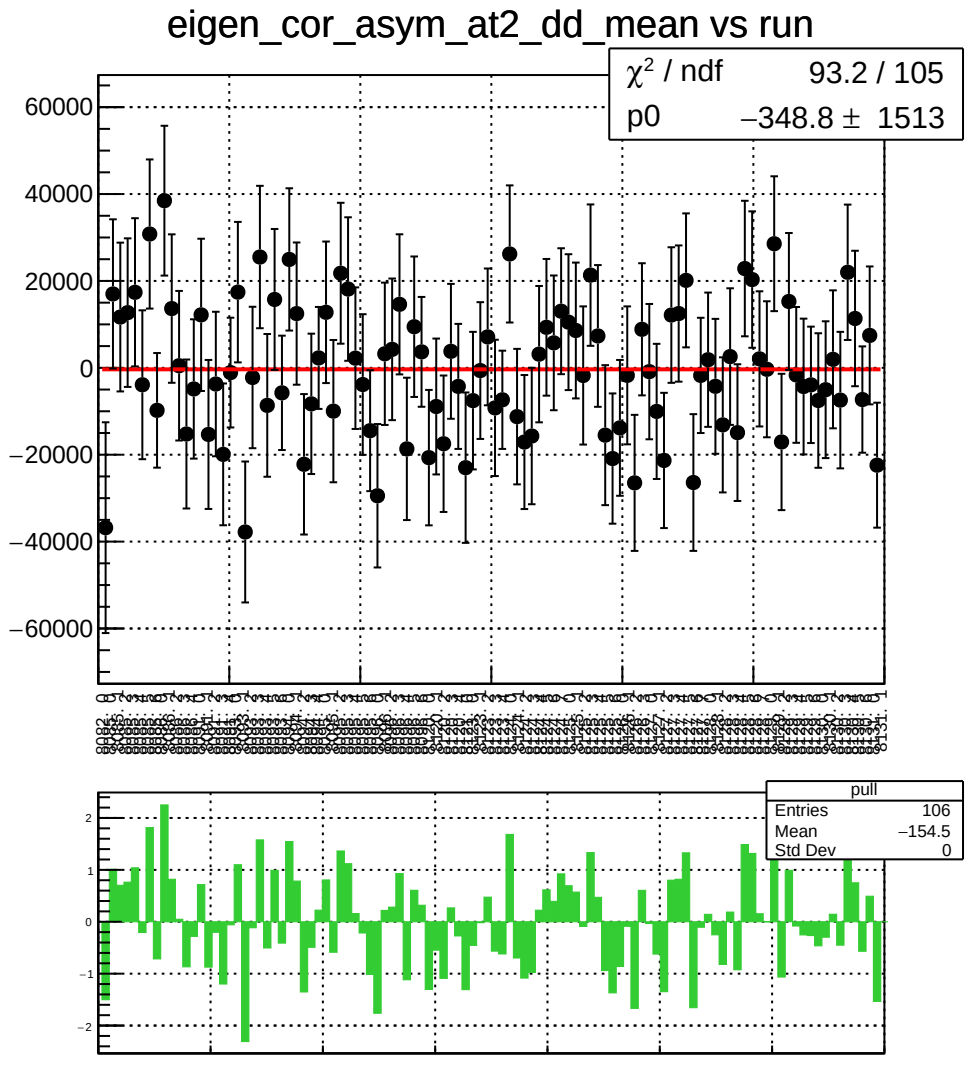

pull1D
Entries 106
Mean 0.008124
Std Dev 0.9376
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

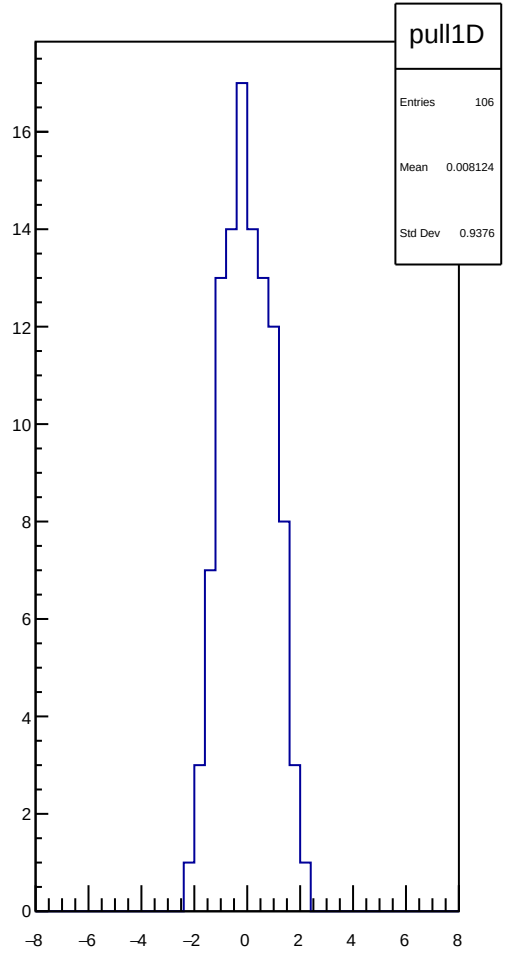

cor_asym_at2_dd_rms vs run
χ² / ndf 2056 / 105
p0 1521 ± 1.07
1650
1600
1550
1500
1450

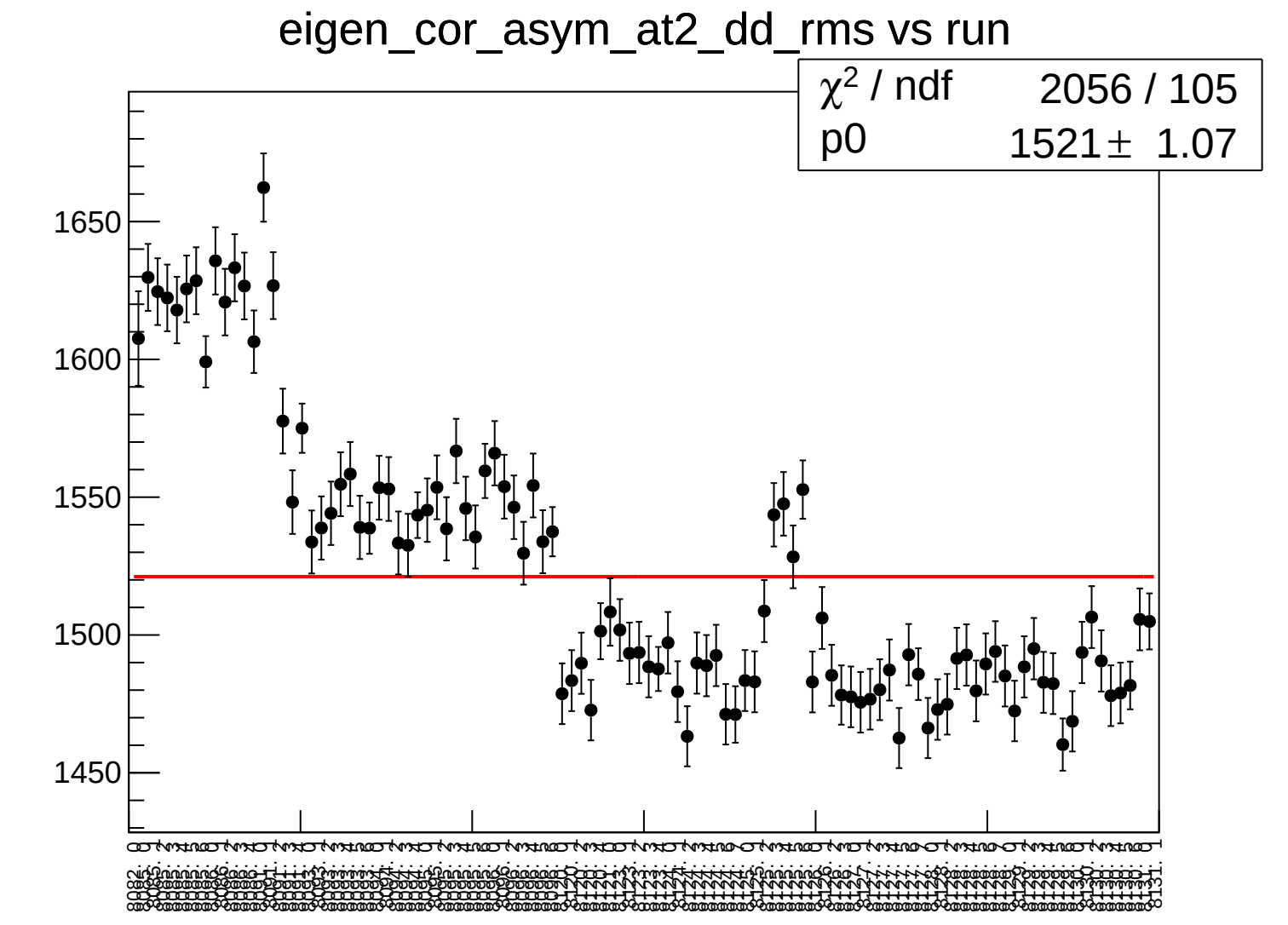

asym_at2_dd_cor_correction_mean vs run
χ² / ndf 74.7 / 105
p0 3304 ± 2135
pull
Entries 106
Mean −102.2
Std Dev 0

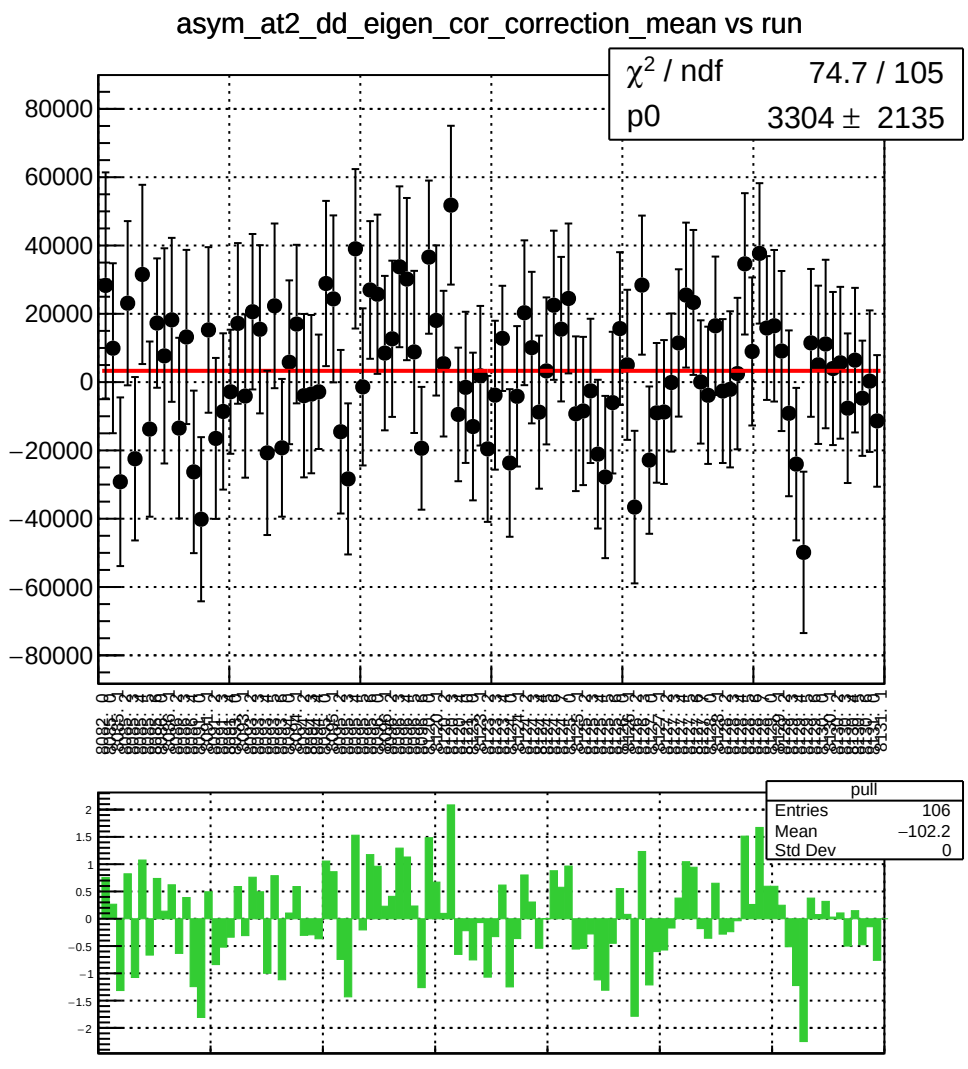

pull1D
Entries 106
Mean 0.005208
Std Dev 0.8395

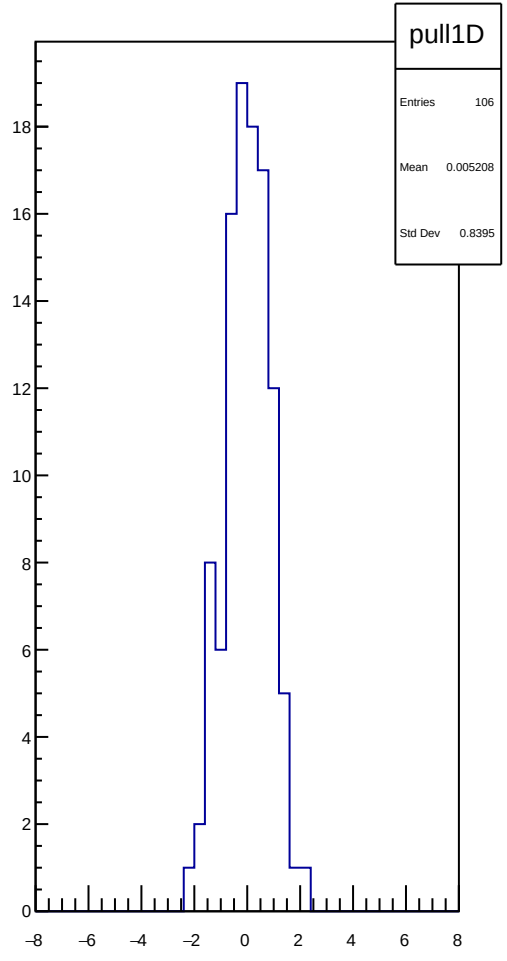

asym_at2_dd_cor_correction_rms vs run
χ² / ndf 9233 / 105
p0 2142 ± 1.51
3000
2800
2600
2400
2200
2000
1800

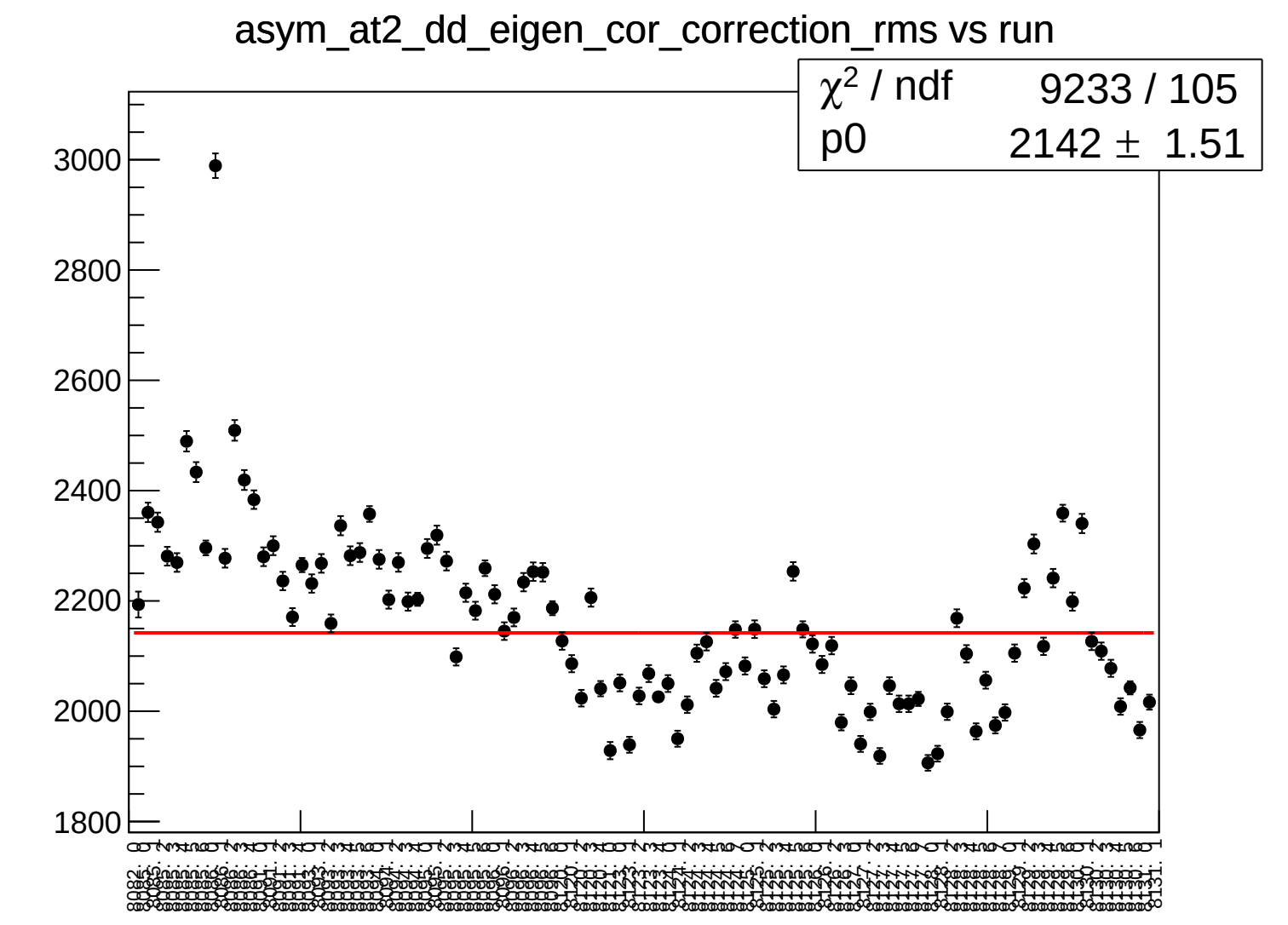

eigen_cor_asym_at2_dd_mean vs run
χ² / ndf 93.2 / 105
p0 −348.8 ± 1513
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean −154.5
Std Dev 0
2
1
0
−1
−2

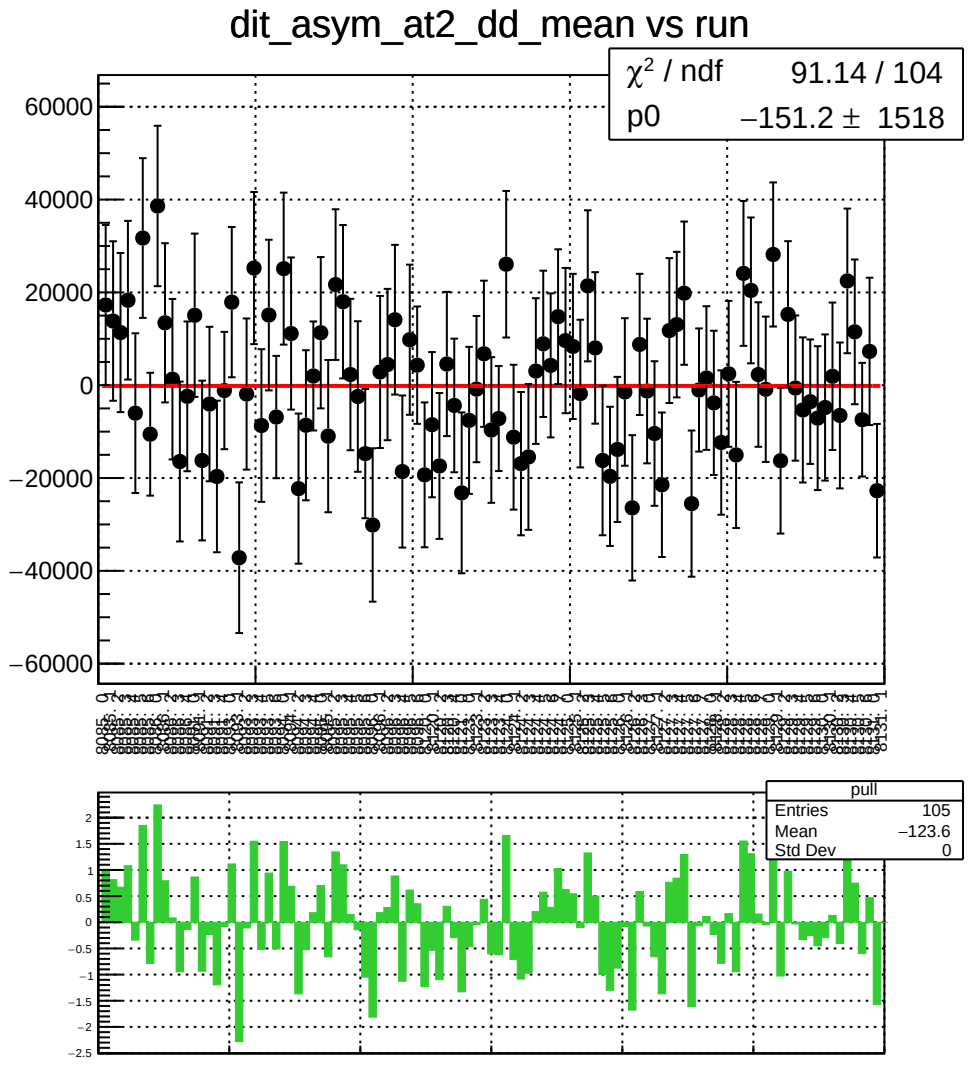

pull1D
Entries 106
Mean 0.008124
Std Dev 0.9376
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

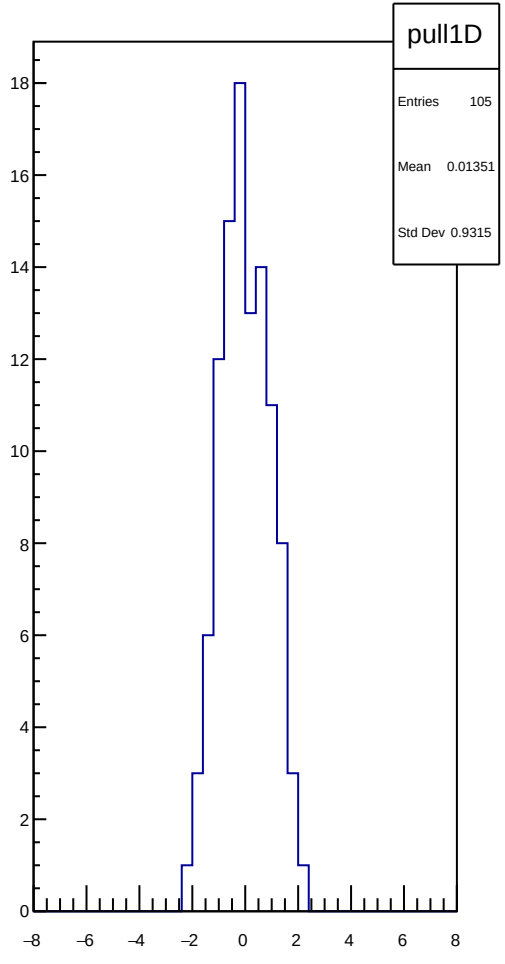

eigen_cor_asym_at2_dd_rms vs run
χ² / ndf 2056 / 105
p0 1521 ± 1.07
1650
1600
1550
1500
1450

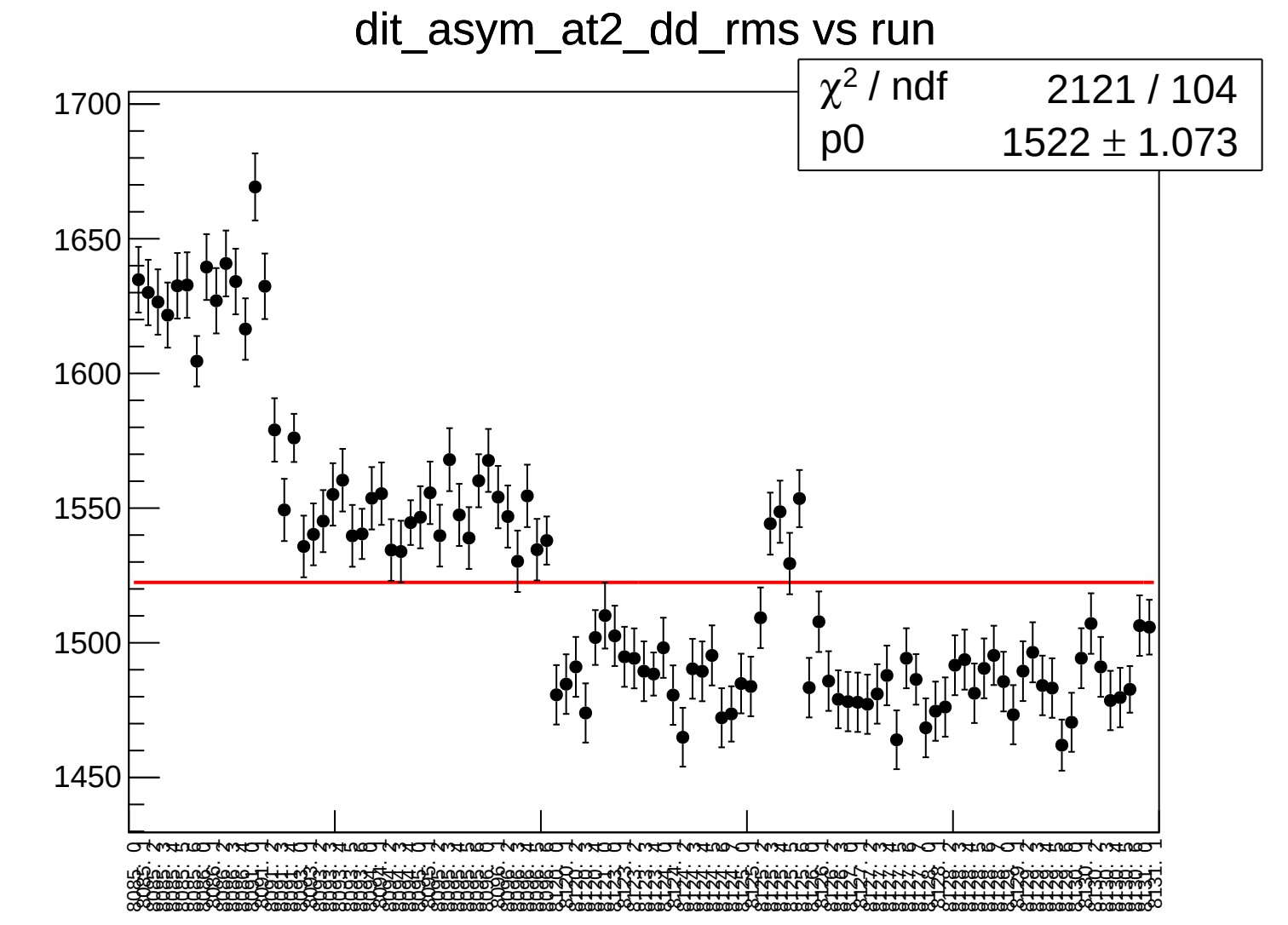

asym_at2_dd_eigen_cor_correction_mean vs run
χ² / ndf 74.7 / 105
p0 3304 ± 2135
pull
Entries 106
Mean −102.2
Std Dev 0

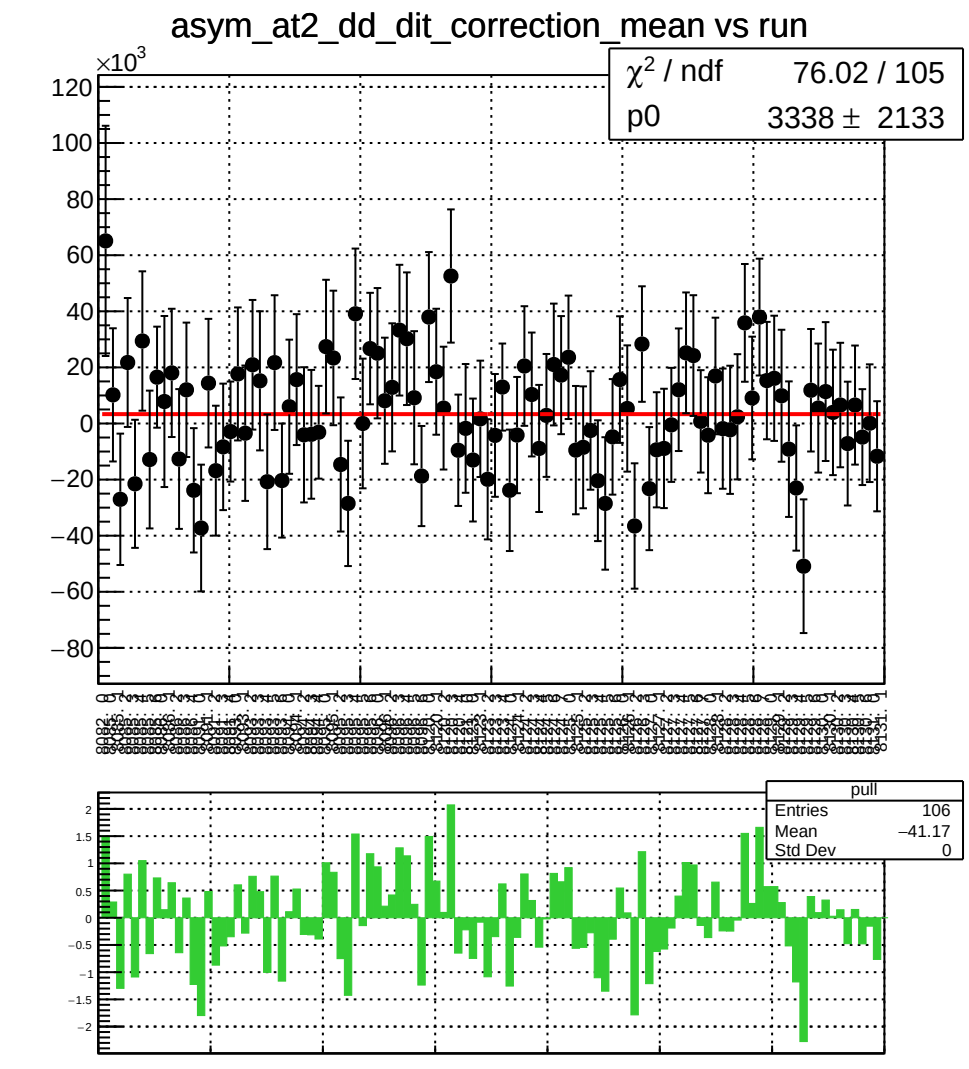

pull1D
Entries 106
Mean 0.005208
Std Dev 0.8395

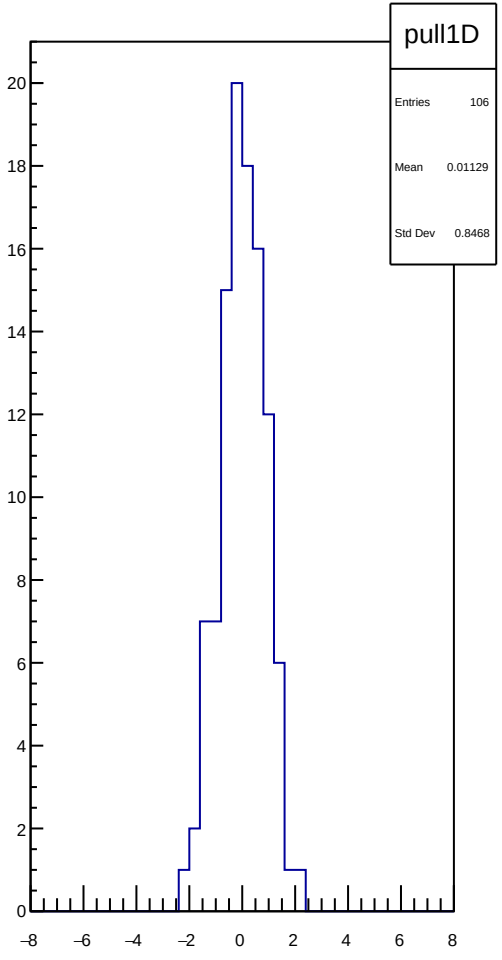

asym_at2_dd_eigen_cor_correction_rms vs run
χ² / ndf 9233 / 105
p0 2142 ± 1.51
3000
2800
2600
2400
2200
2000
1800


dit_asym_at2_dd_mean vs run
χ² / ndf 91.14 / 104
p0 −151.2 ± 1518
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean −123.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

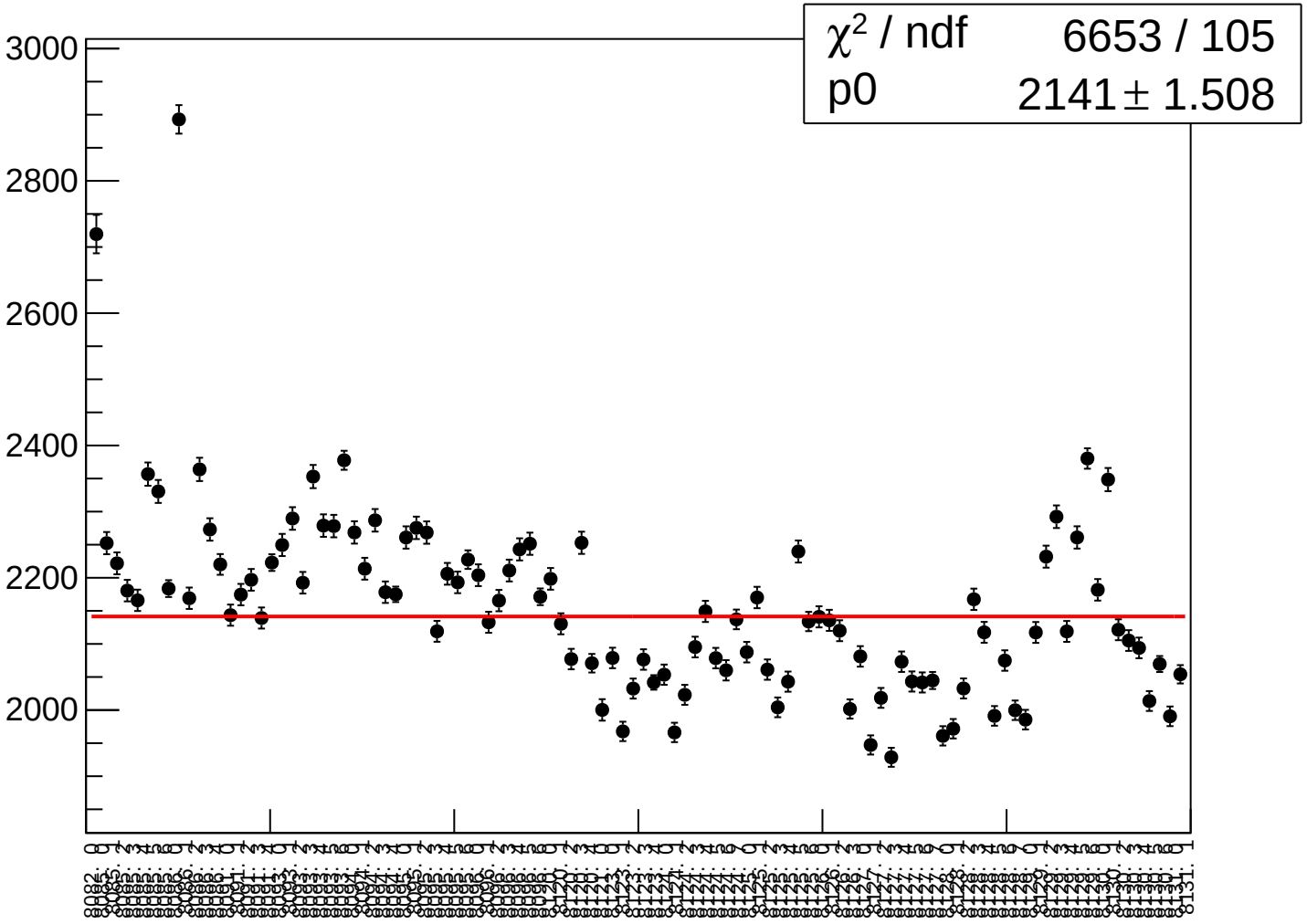

pull1D
Entries 105
Mean 0.01351
Std Dev 0.9315
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

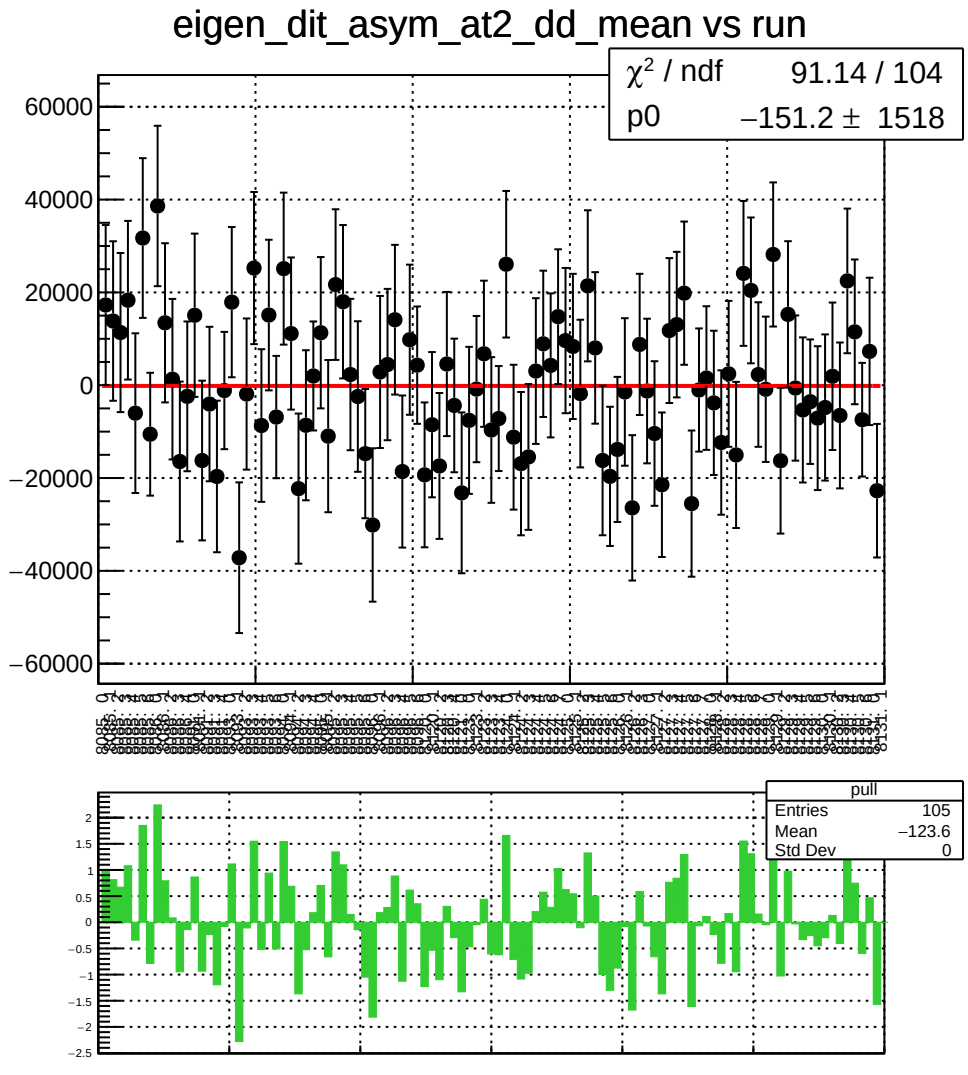

dit_asym_at2_dd_rms vs run
χ² / ndf 2121 / 104
p0 1522 ± 1.073
1700
1650
1600
1550
1500
1450

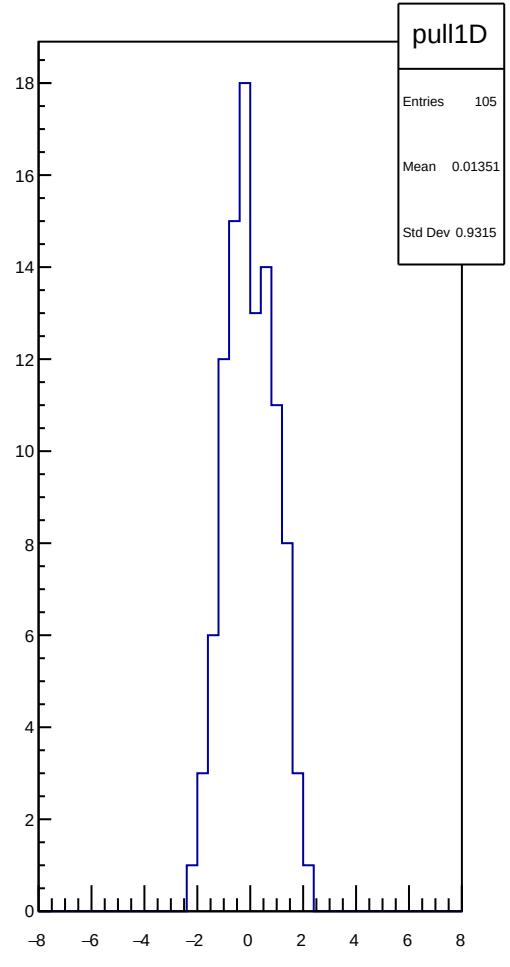

asym_at2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 76.02 / 105
p0 3338 ± 2133
pull
Entries 106
Mean −41.17
Std Dev 0

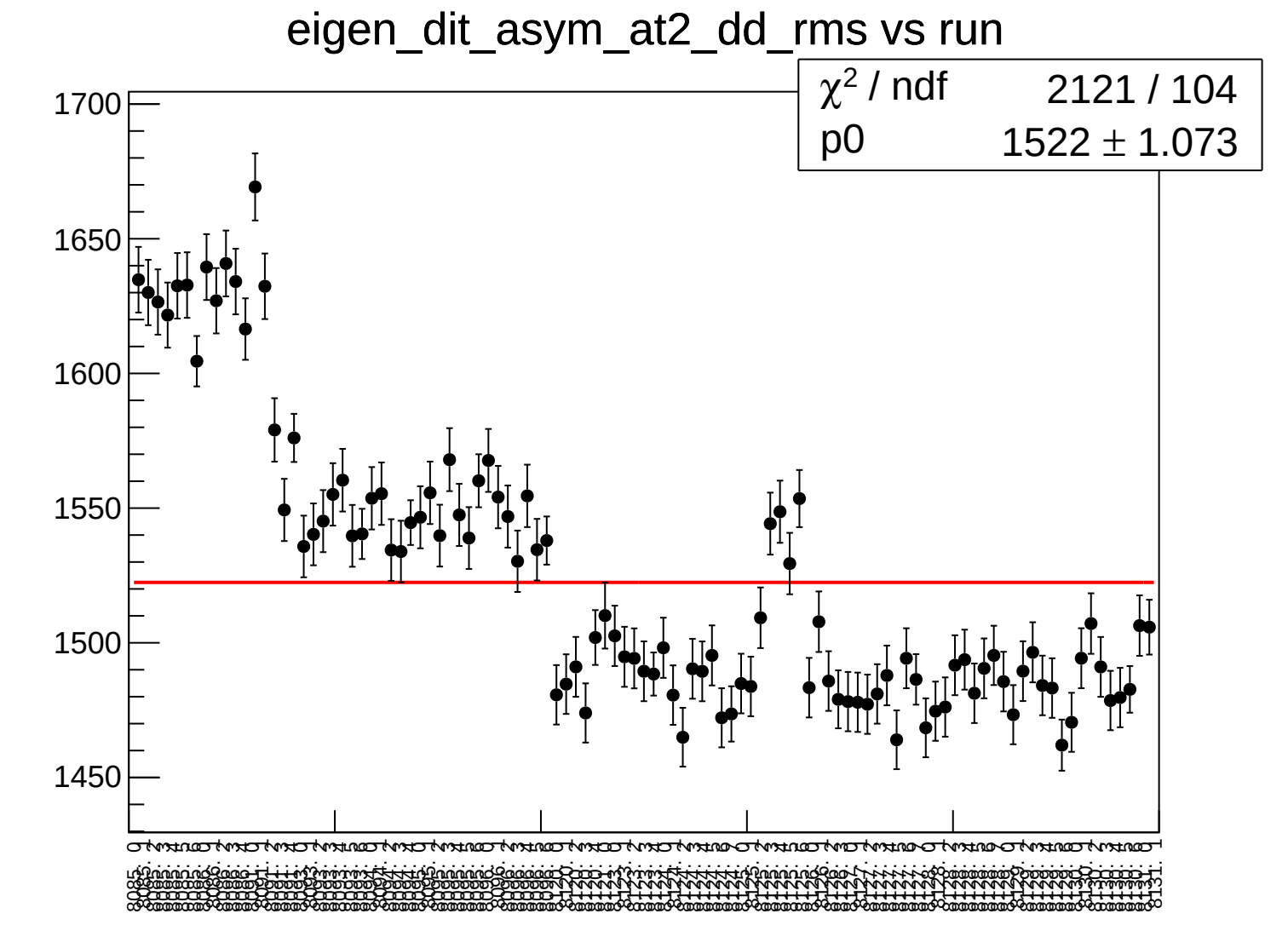

pull1D
Entries 106
Mean 0.01129
Std Dev 0.8468

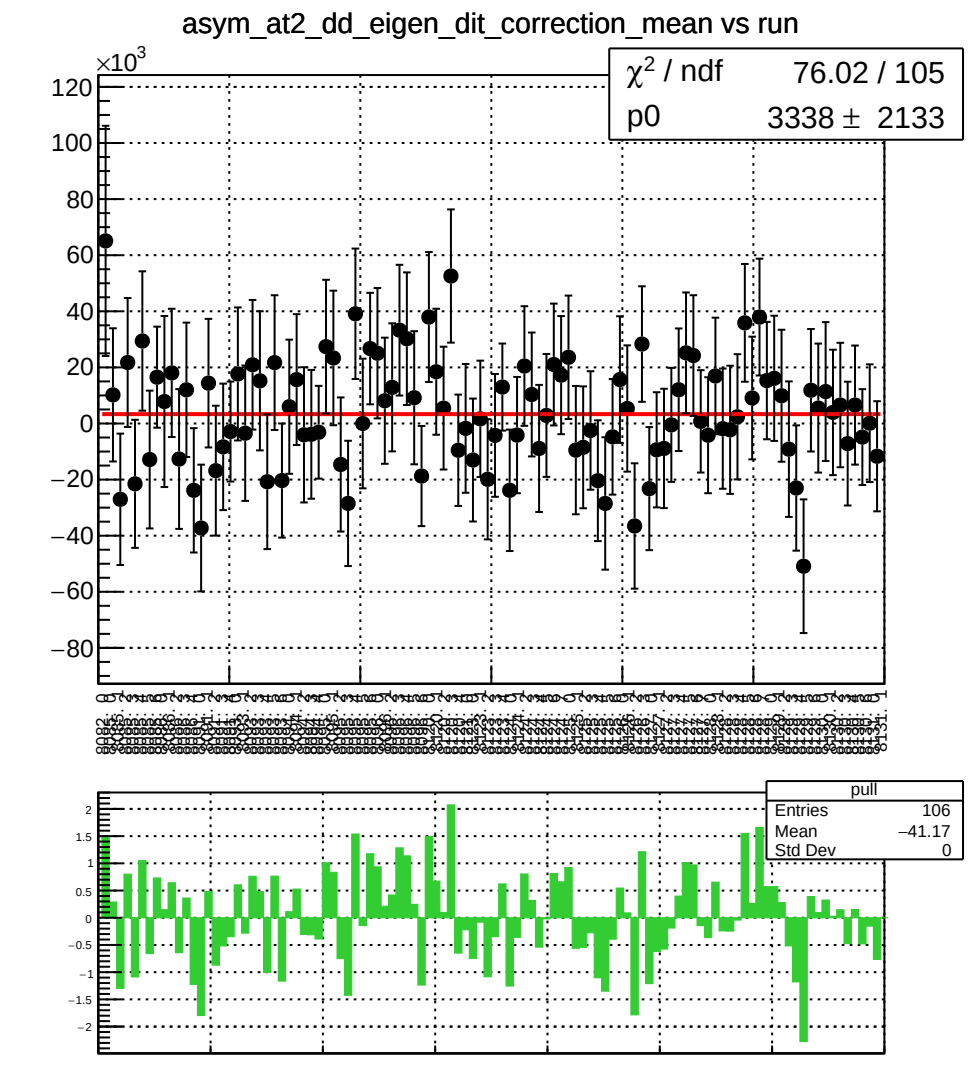
# asym_at2_dd_dit_correction_rms vs run

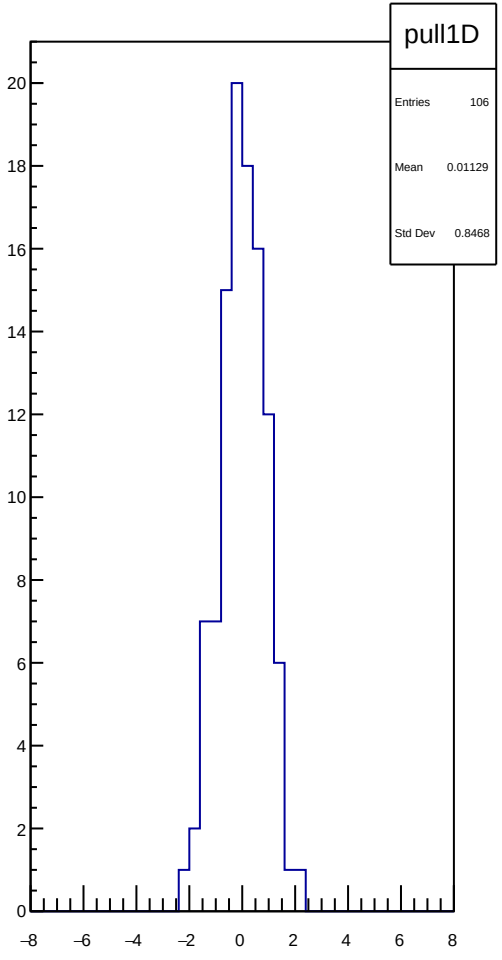


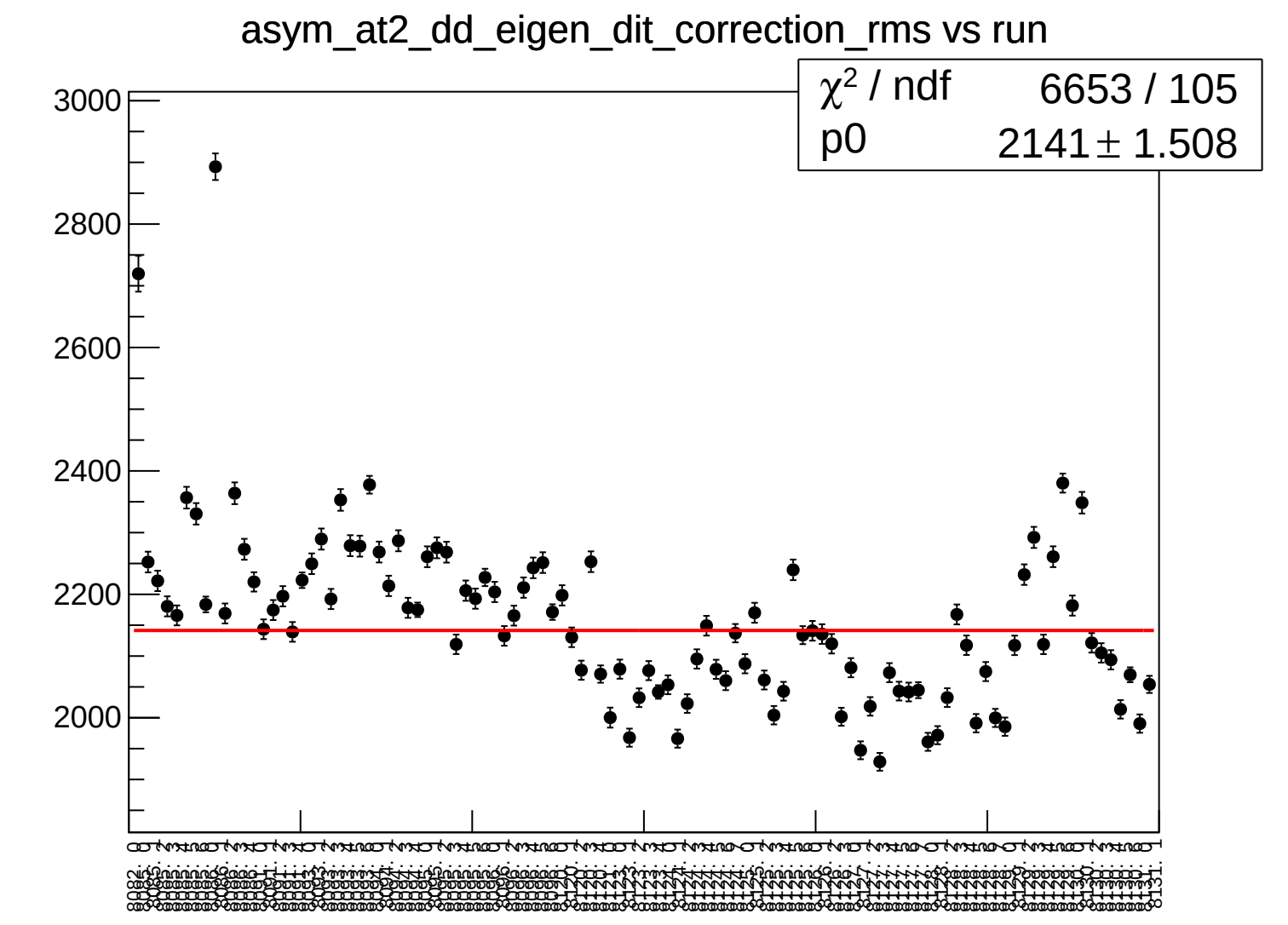

eigen_dit_asym_at2_dd_mean vs run
χ² / ndf 91.14 / 104
p0 −151.2 ± 1518
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean −123.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

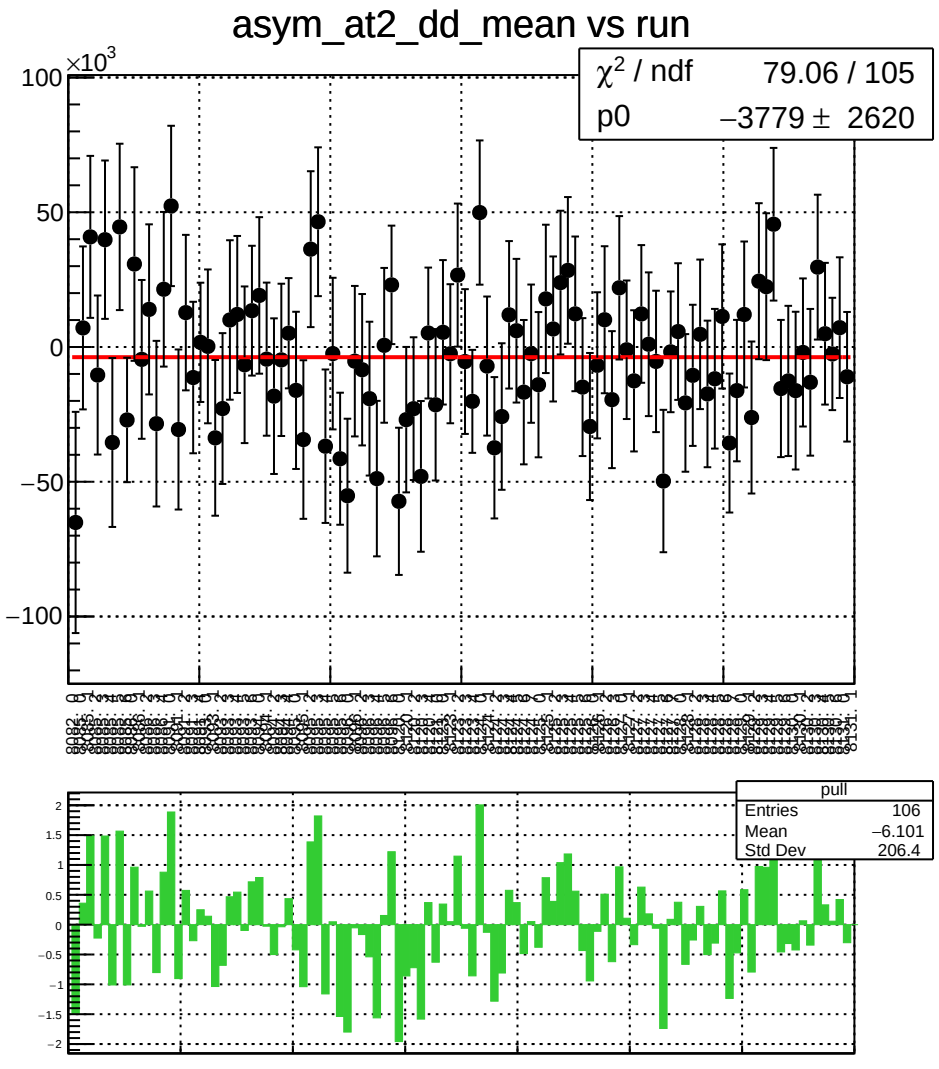

pull1D
Entries 105
Mean 0.01351
Std Dev 0.9315
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

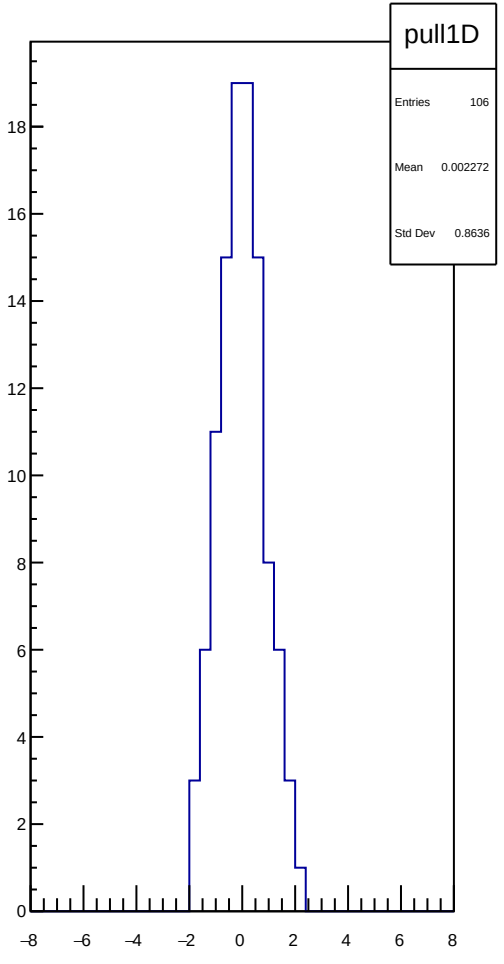

eigen_dit_asym_at2_dd_rms vs run
χ² / ndf 2121 / 104
p0 1522 ± 1.073
1700
1650
1600
1550
1500
1450

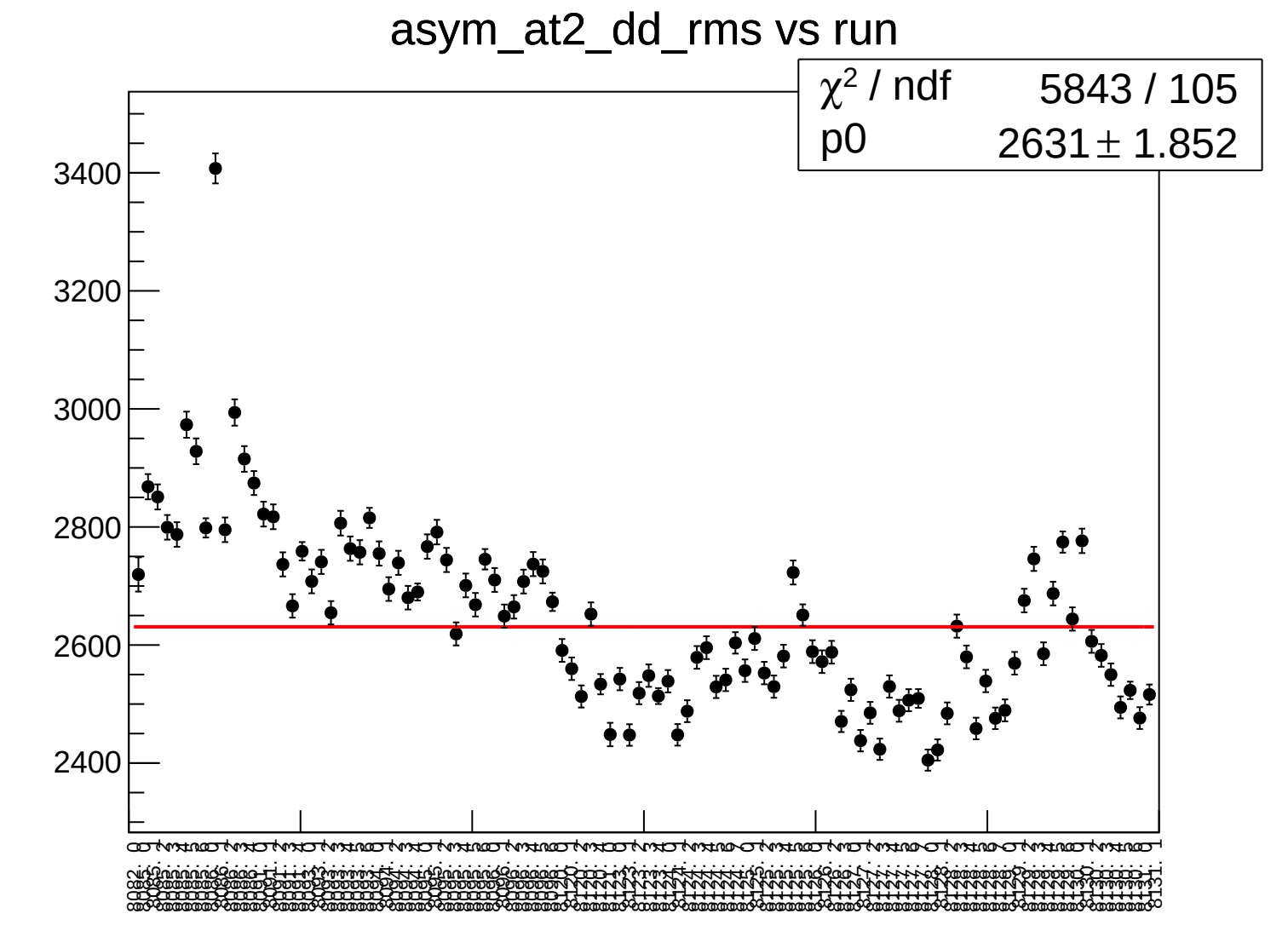

asym_at2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 76.02 / 105
p0 3338 ± 2133
pull
Entries 106
Mean −41.17
Std Dev 0

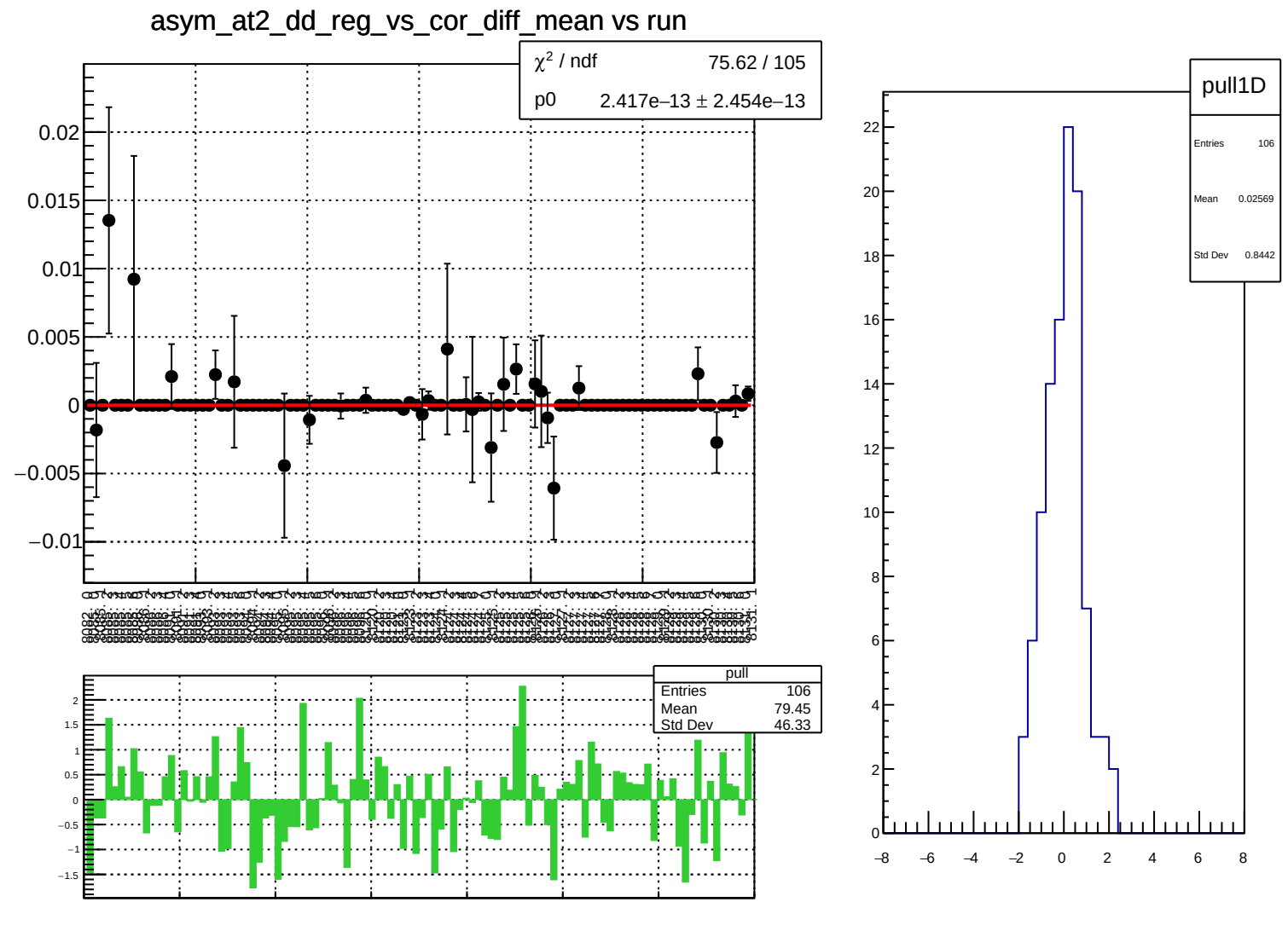

pull1D
Entries 106
Mean 0.01129
Std Dev 0.8468

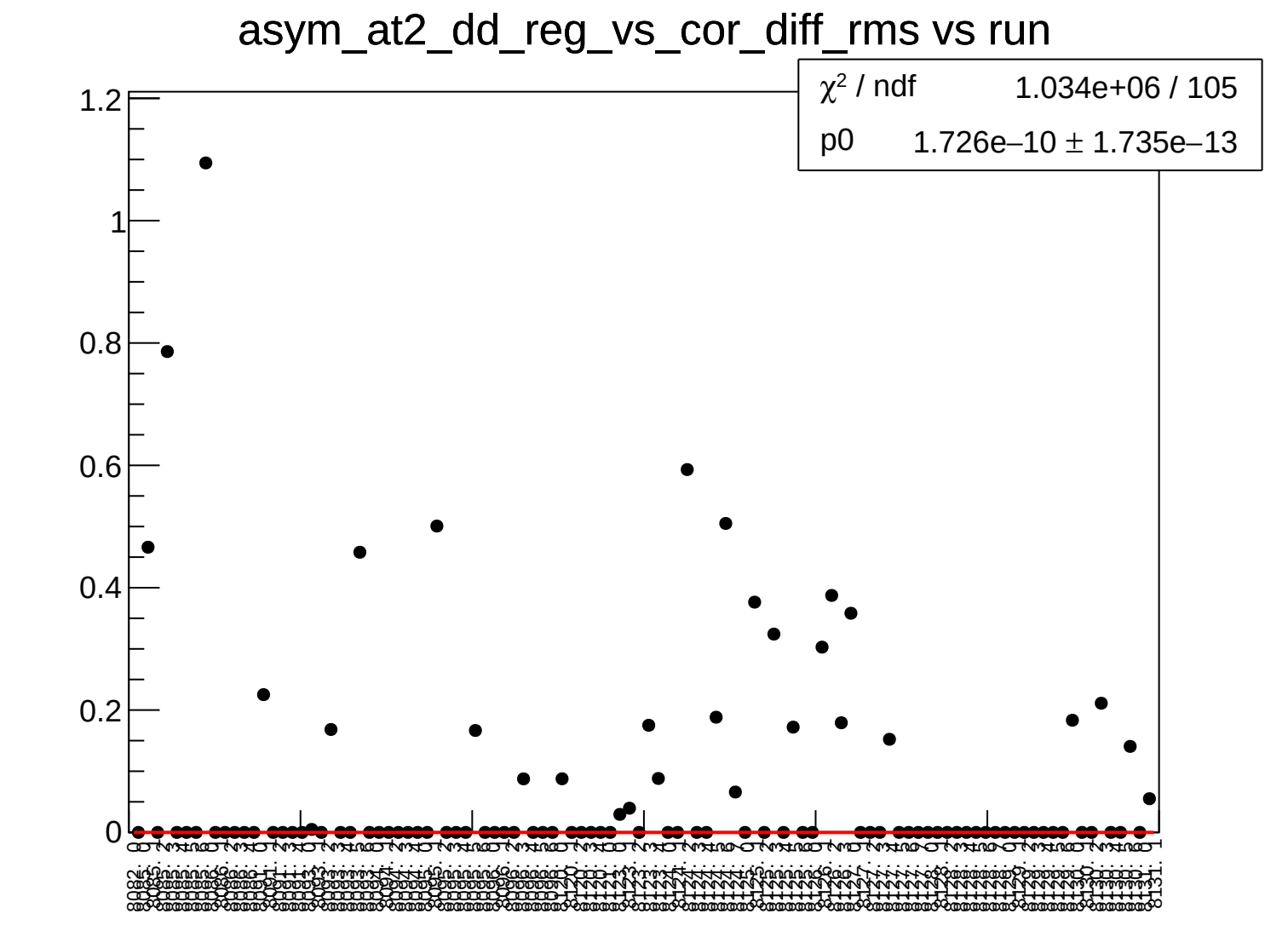

asym_at2_dd_eigen_dit_correction_rms vs run
$\chi^2$ / ndf 6653 / 105
p0 2141 ± 1.508
3000
2800
2600
2400
2200
2000

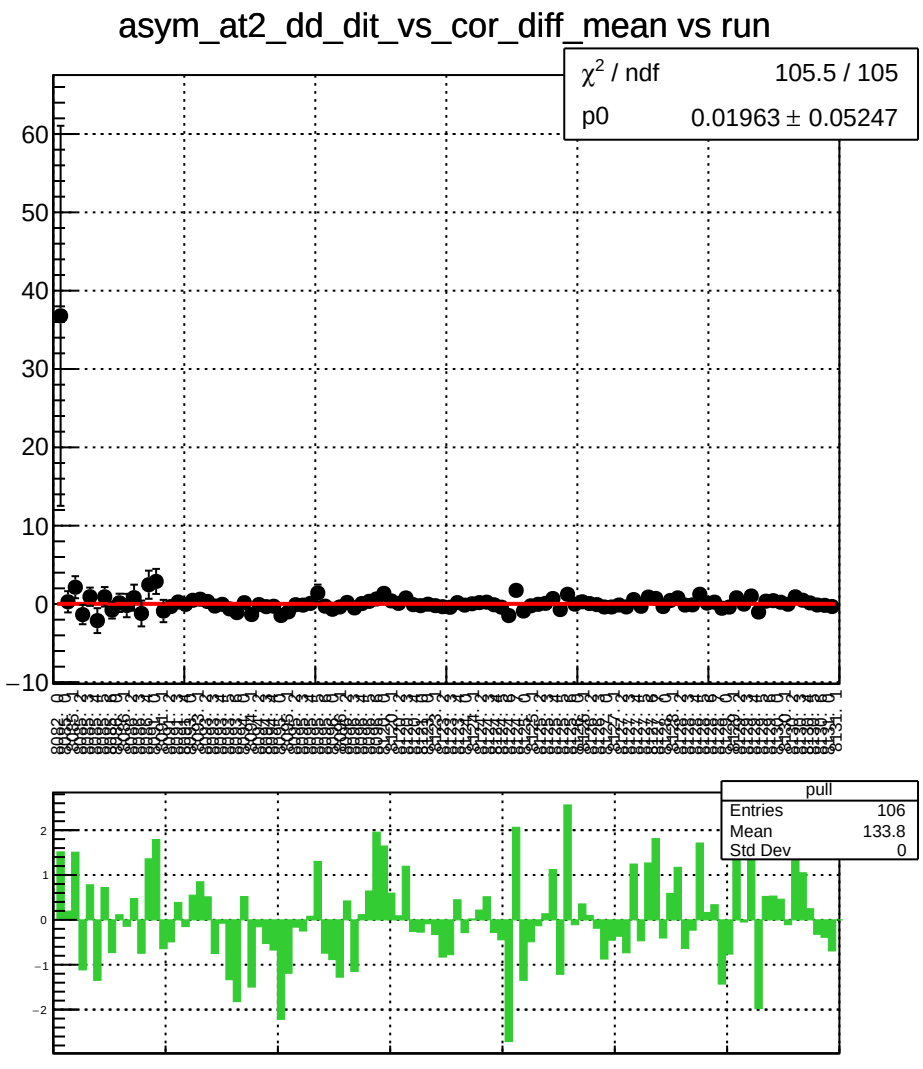

asym_at2_dd_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 79.06 / 105
p0 −3779 ± 2620
pull
Entries 106
Mean −6.101
Std Dev 206.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

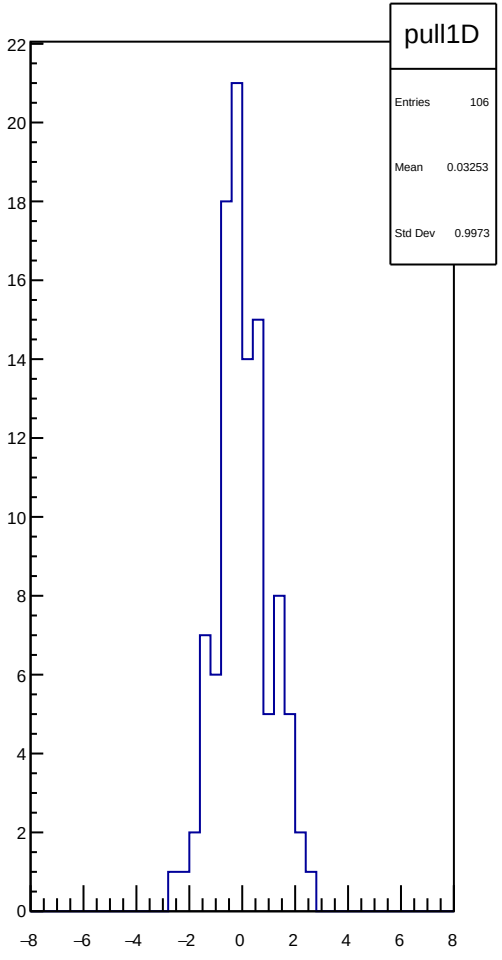

pull1D
Entries 106
Mean 0.002272
Std Dev 0.8636
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

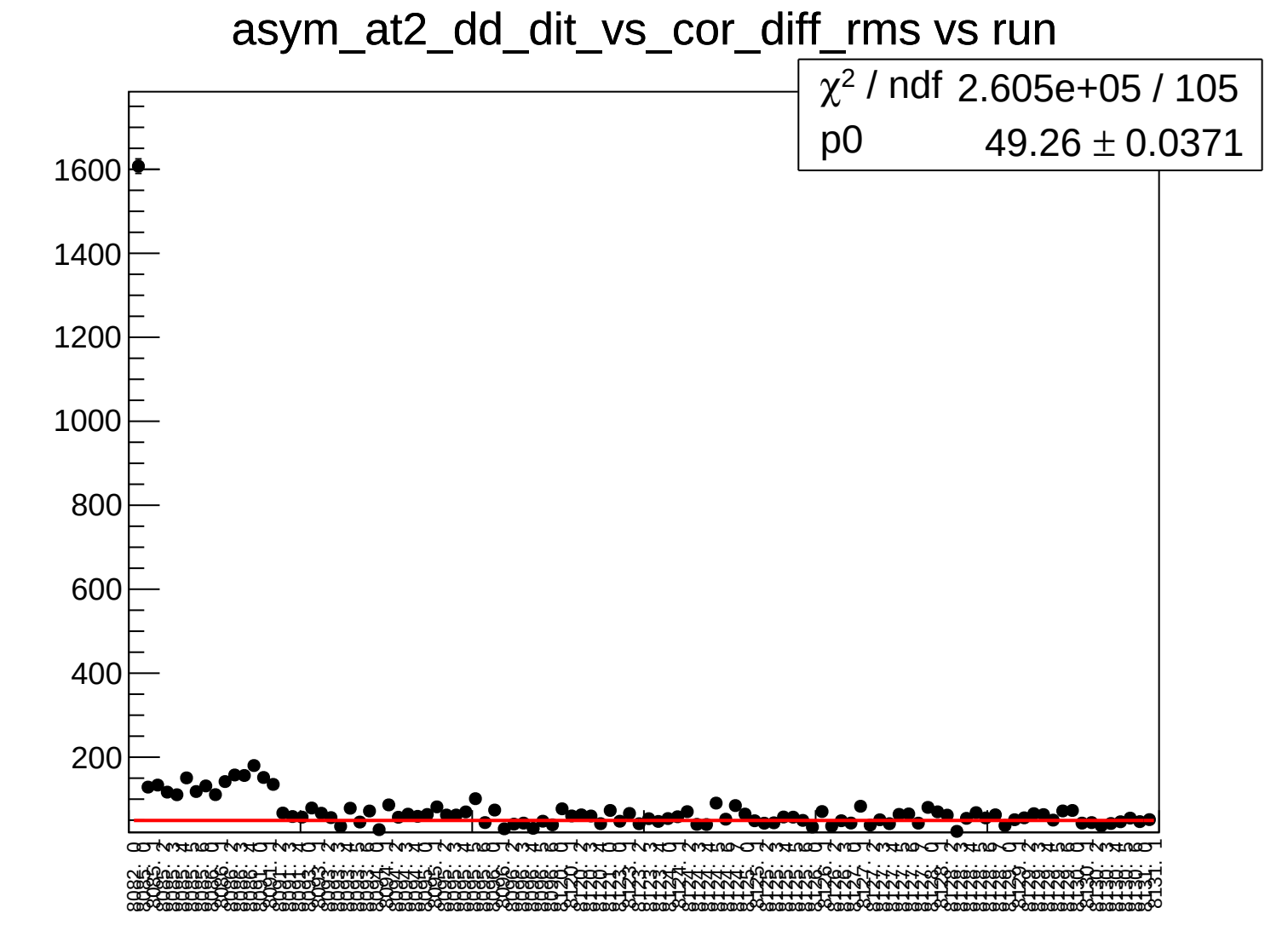

asym_at2_dd_rms vs run
χ² / ndf 5843 / 105
p0 2631 ± 1.852
3400
3200
3000
2800
2600
2400

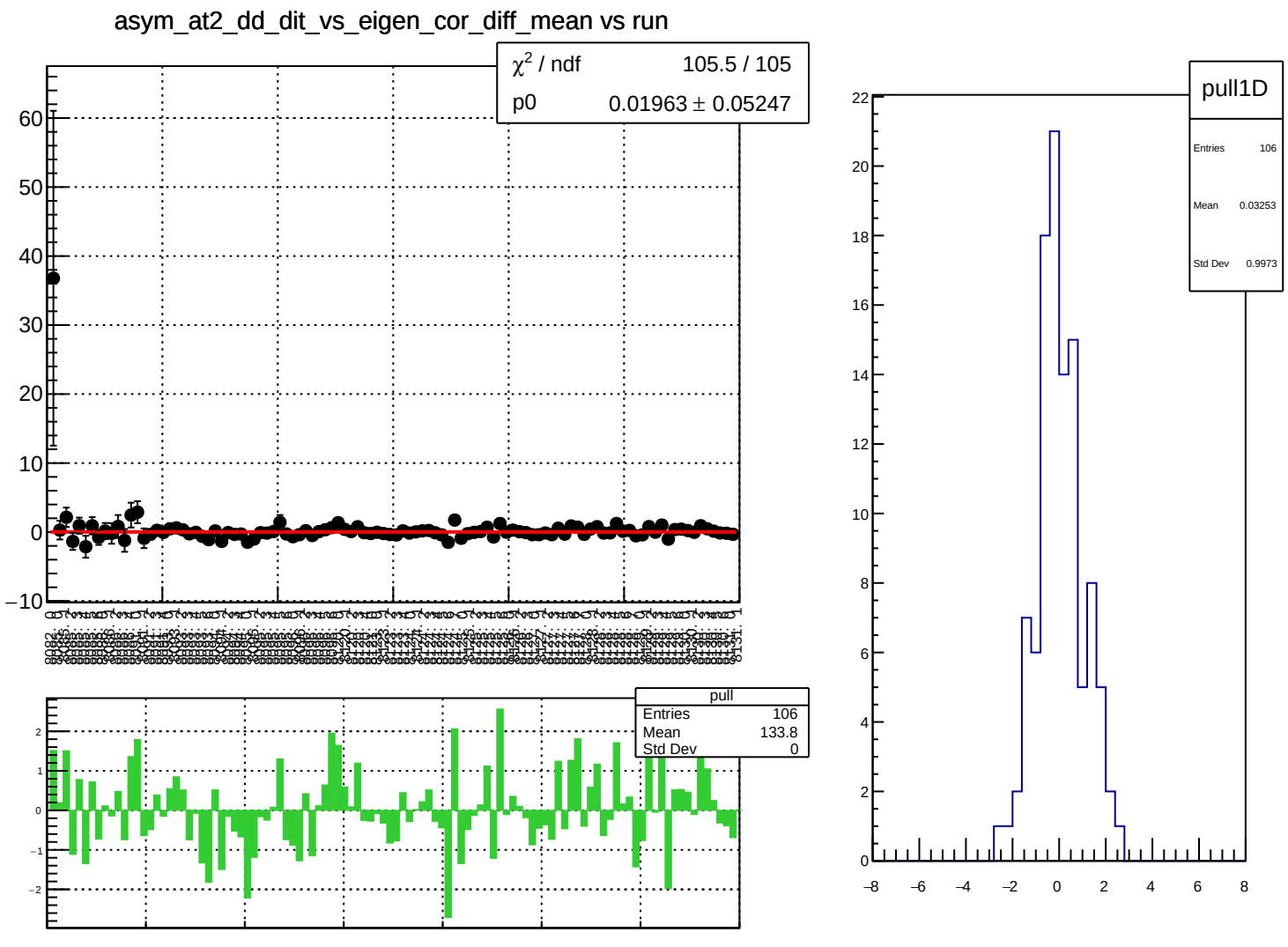

asym_at2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 75.62 / 105
p0 2.417e−13 ± 2.454e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 106
Mean 79.45
Std Dev 46.33
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 106
Mean 0.02569
Std Dev 0.8442
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

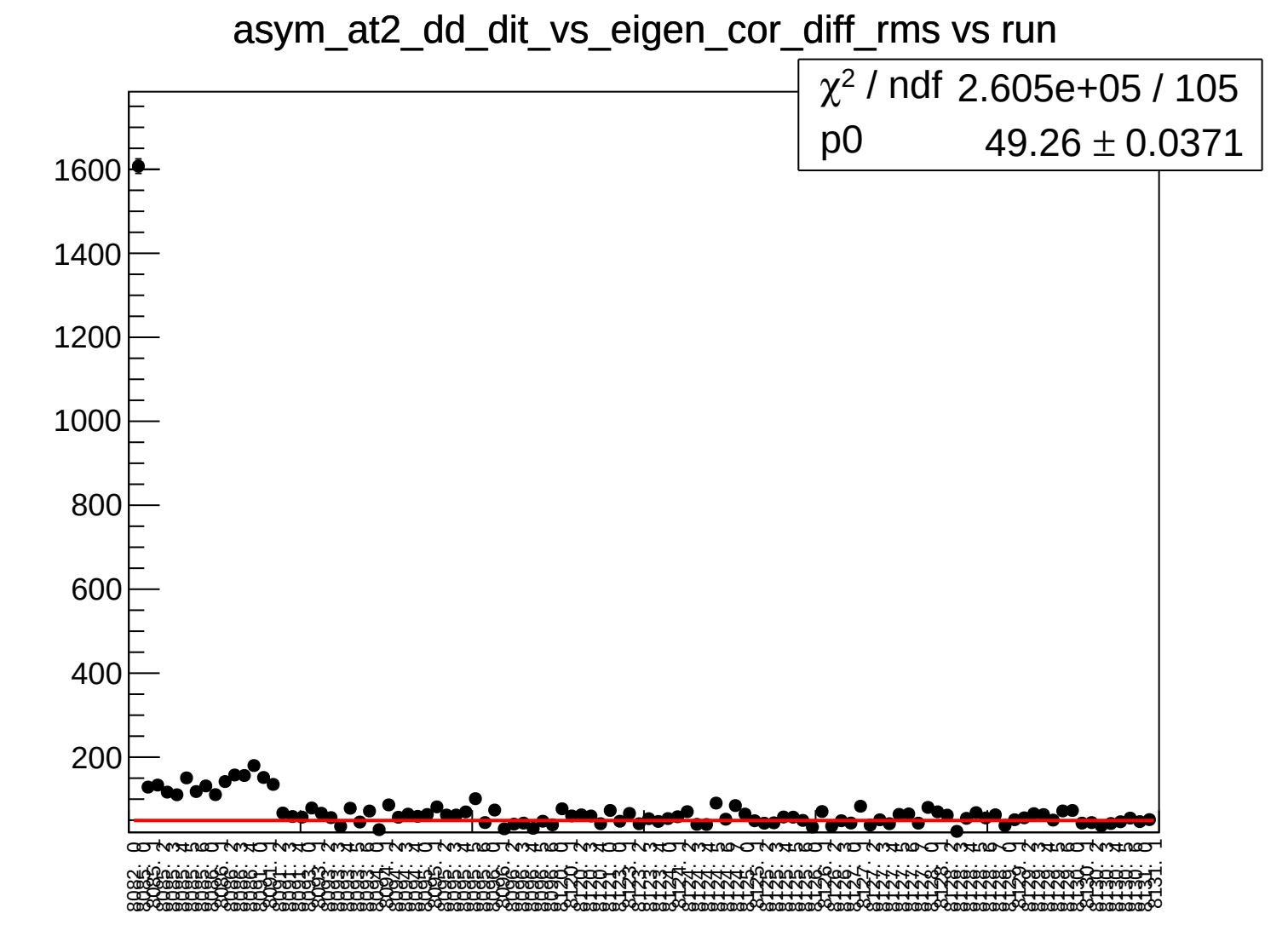

asym_at2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.034e+06 / 105
p0 1.726e−10 ± 1.735e−13
1.2
1
0.8
0.6
0.4
0.2
0

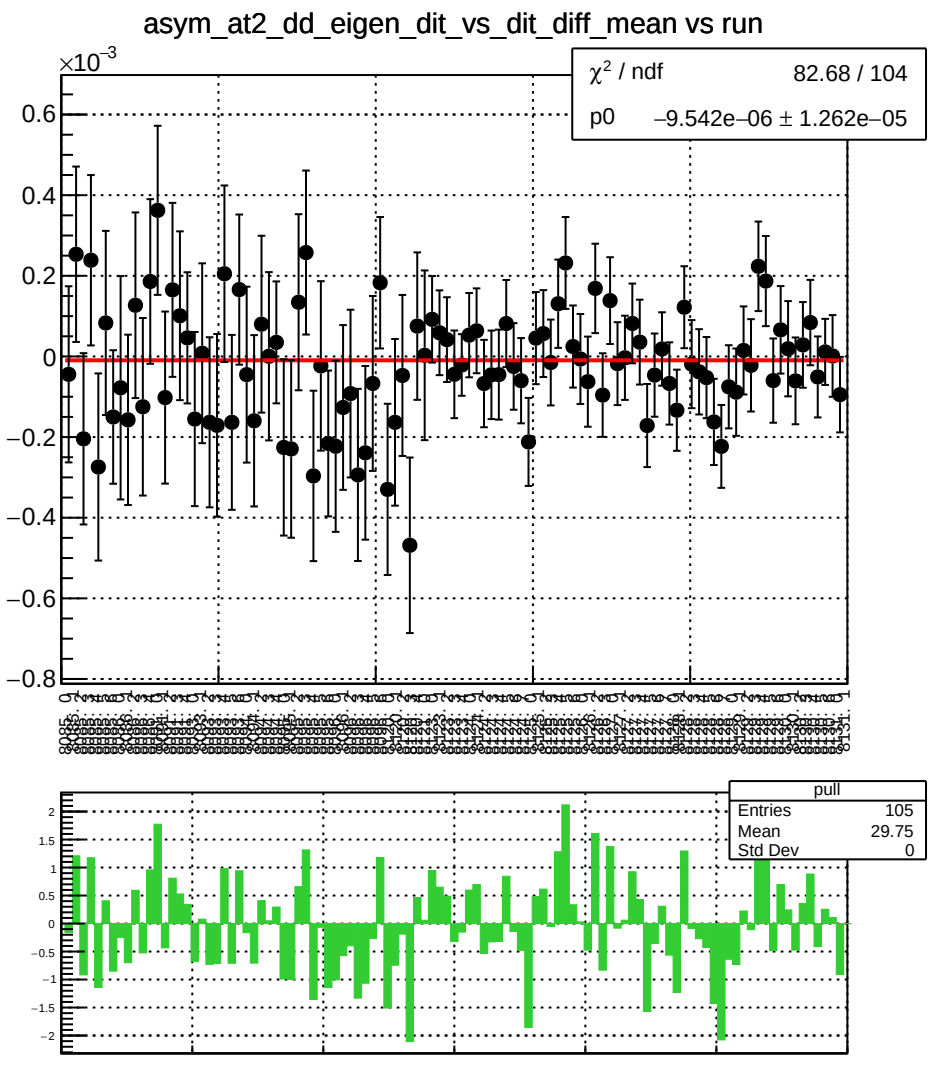

asym_at2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 105.5 / 105
p0 0.01963 ± 0.05247
pull
Entries 106
Mean 133.8
Std Dev 0

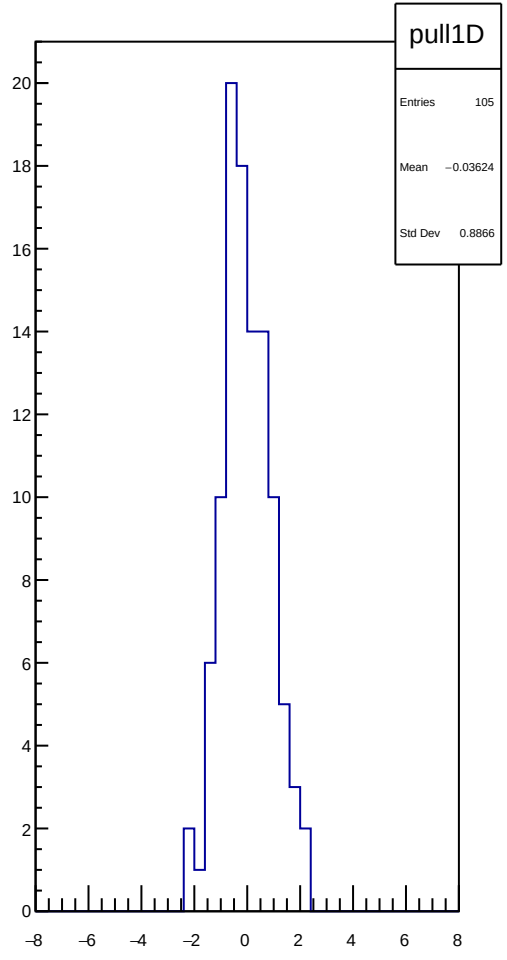

pull1D
Entries 106
Mean 0.03253
Std Dev 0.9973

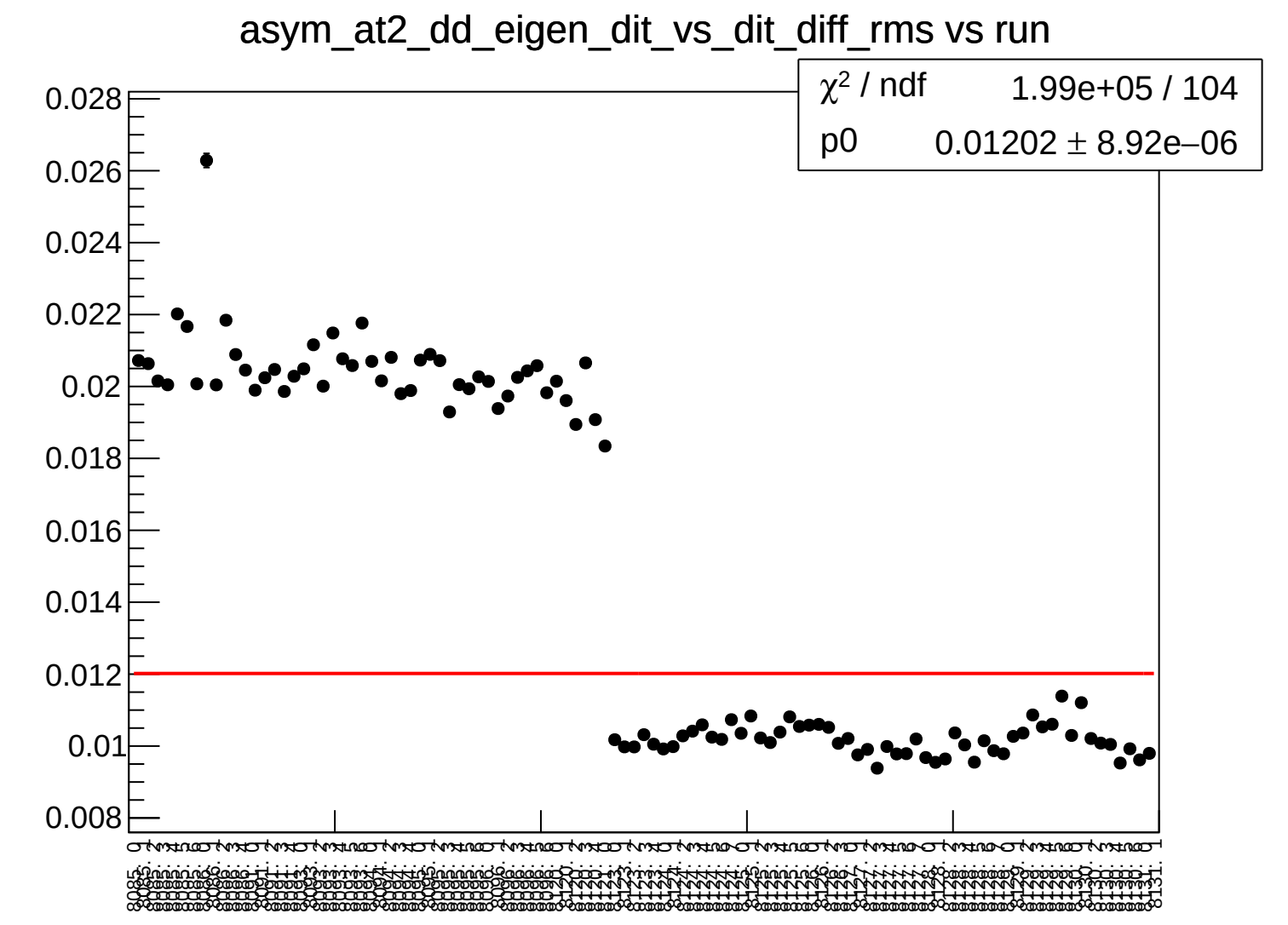

asym_at2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.605e+05 / 105
p0 49.26 ± 0.0371
1600
1400
1200
1000
800
600
400
200

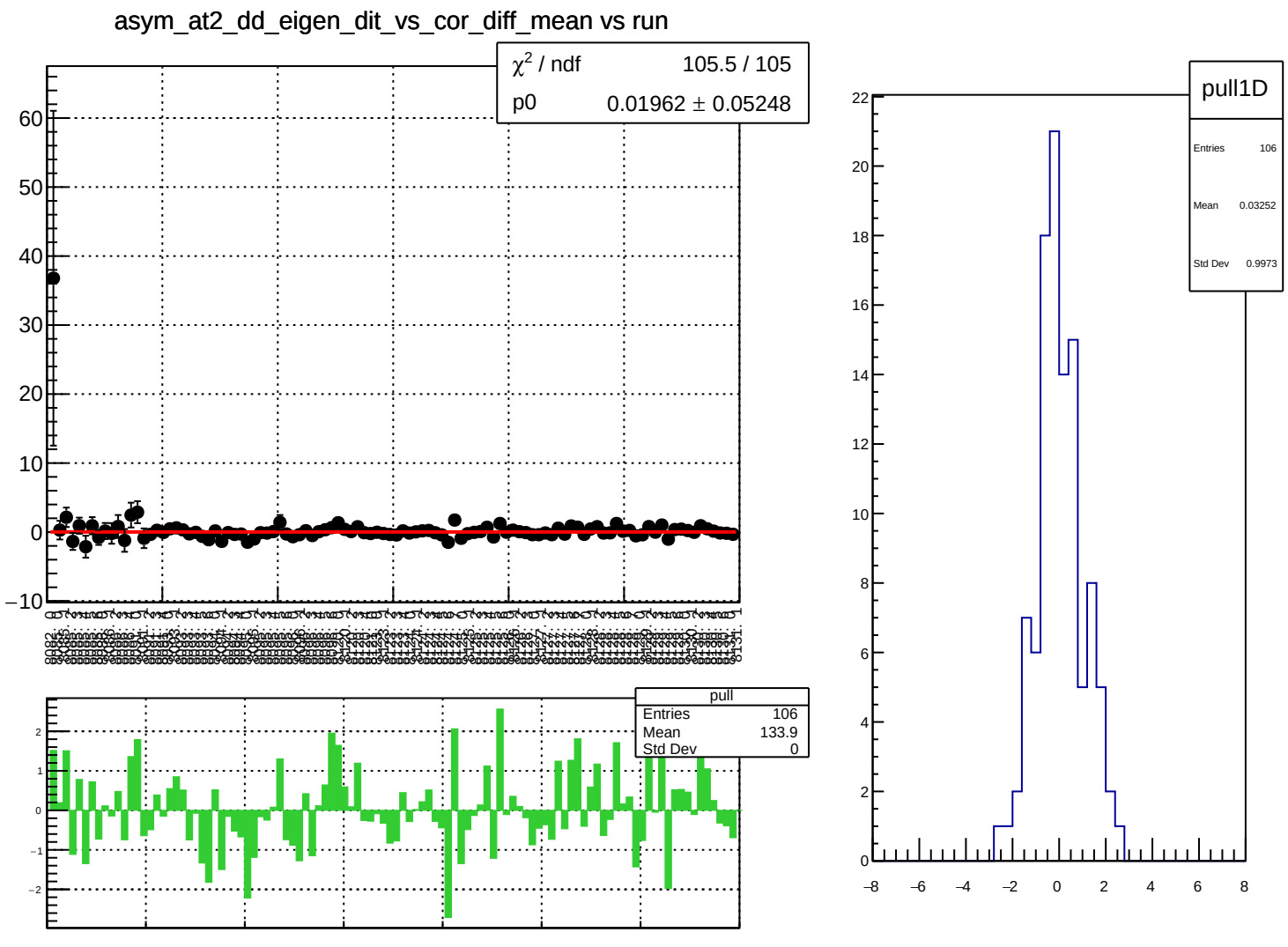

asym_at2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.5 / 105
p0 0.01963 ± 0.05247
pull
Entries 106
Mean 133.8
Std Dev 0
pull1D
Entries 106
Mean 0.03253
Std Dev 0.9973

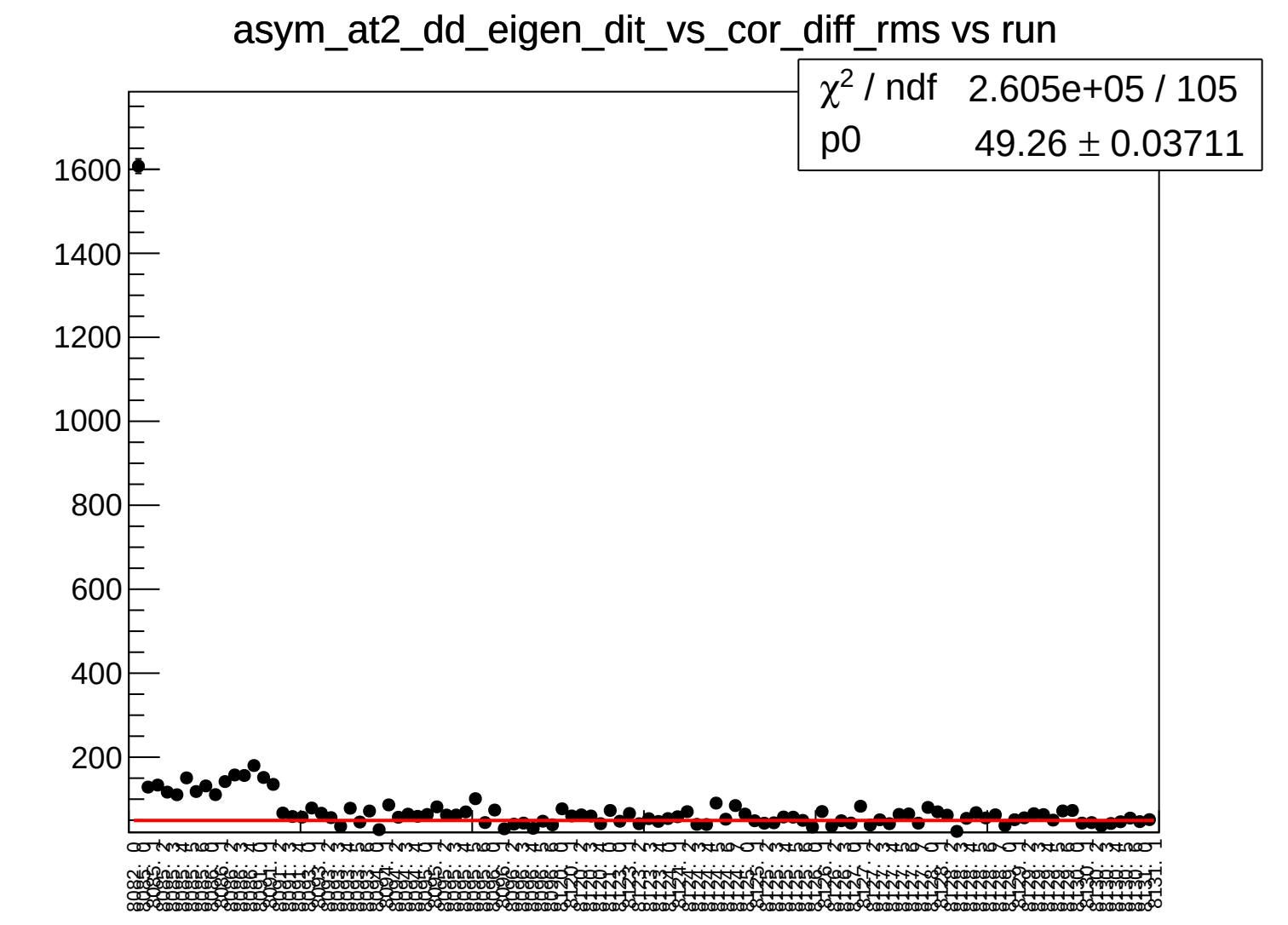

asym_at2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.605e+05 / 105
p0 49.26 ± 0.0371
1600
1400
1200
1000
800
600
400
200

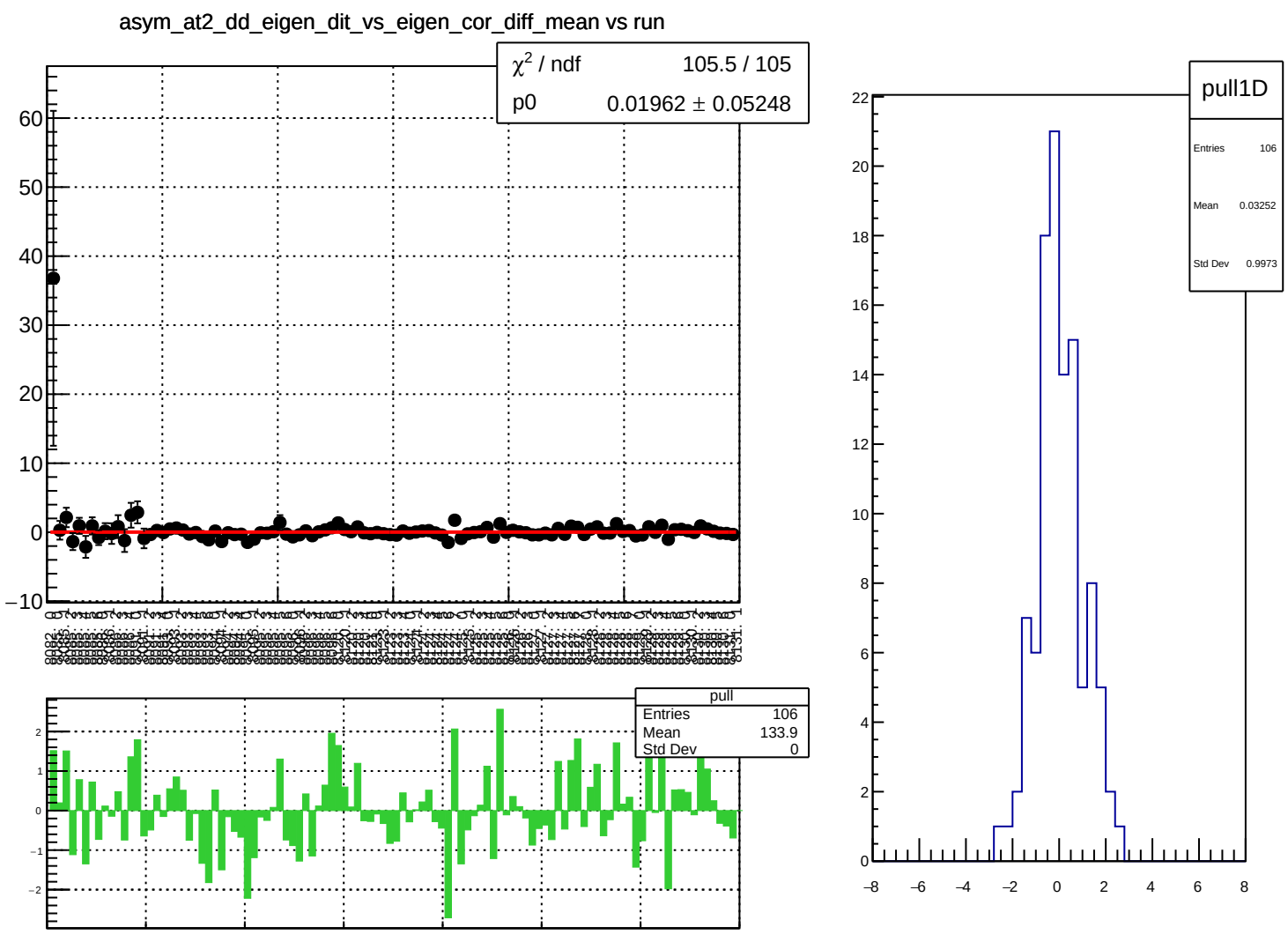

asym_at2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 82.68 / 104
p0 −9.542e−06 ± 1.262e−05
pull
Entries 105
Mean 29.75
Std Dev 0

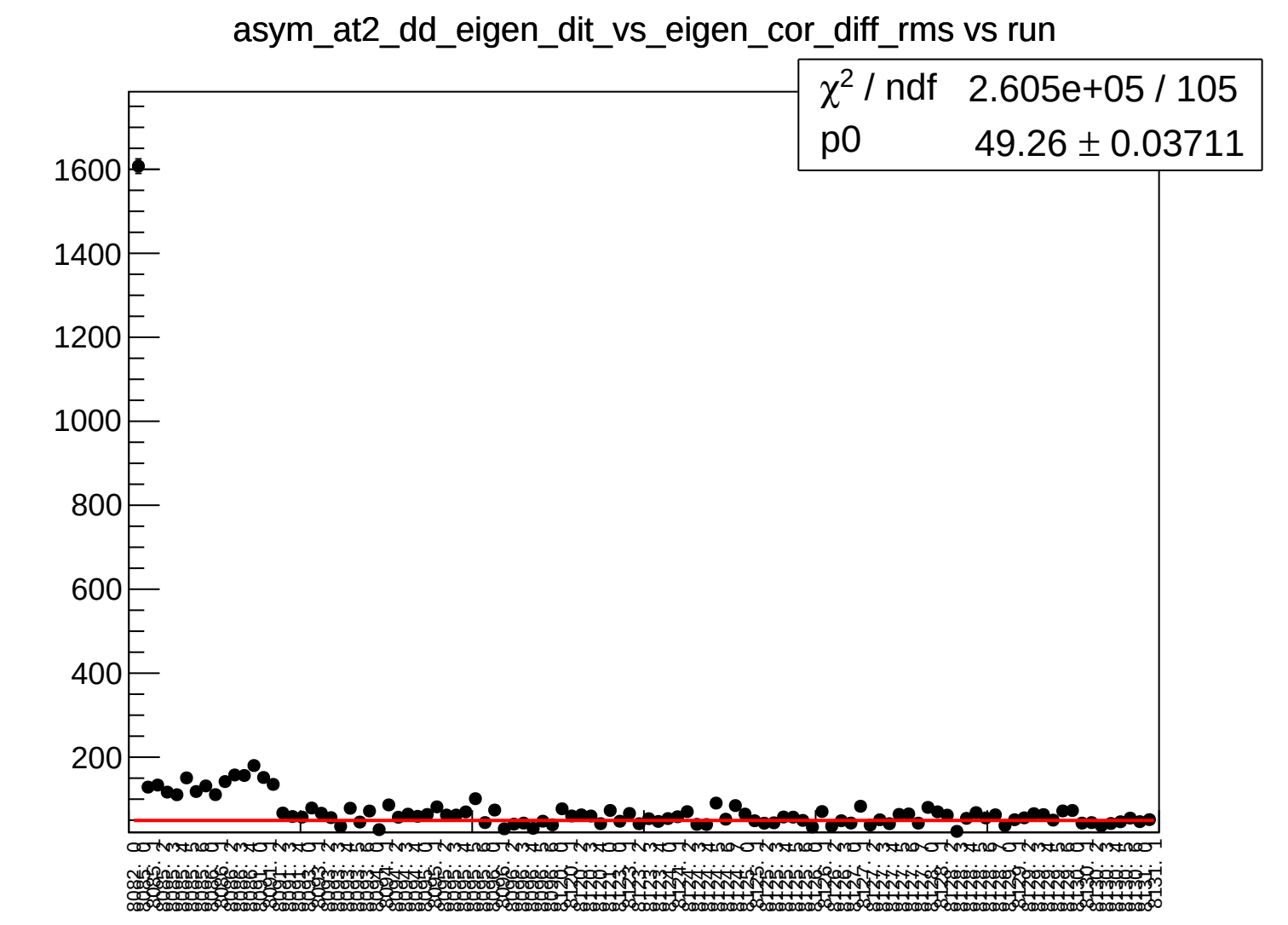

pull1D
Entries 105
Mean −0.03624
Std Dev 0.8866

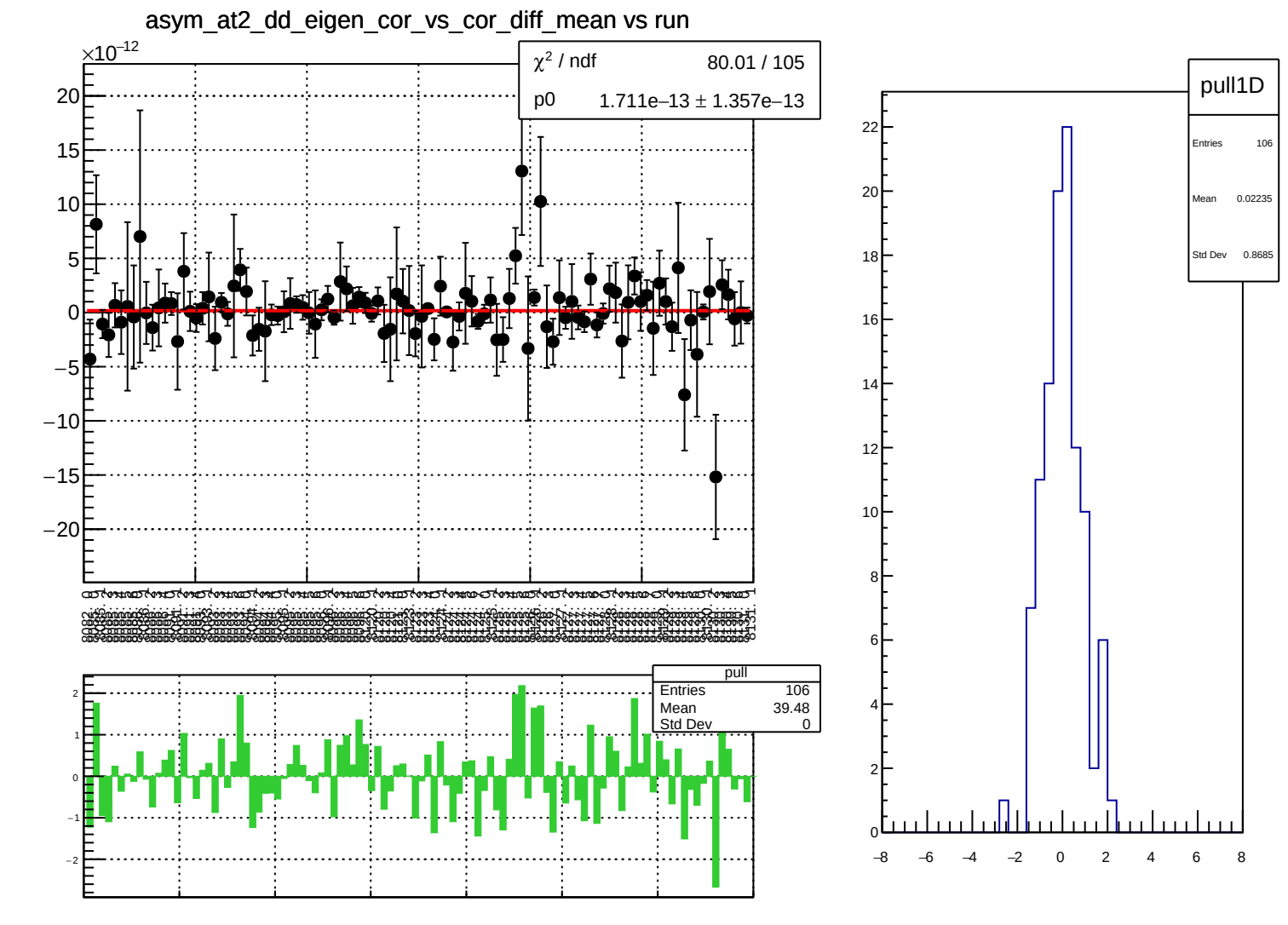

asym_at2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.99e+05 / 104
p0 0.01202 ± 8.92e−06
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008

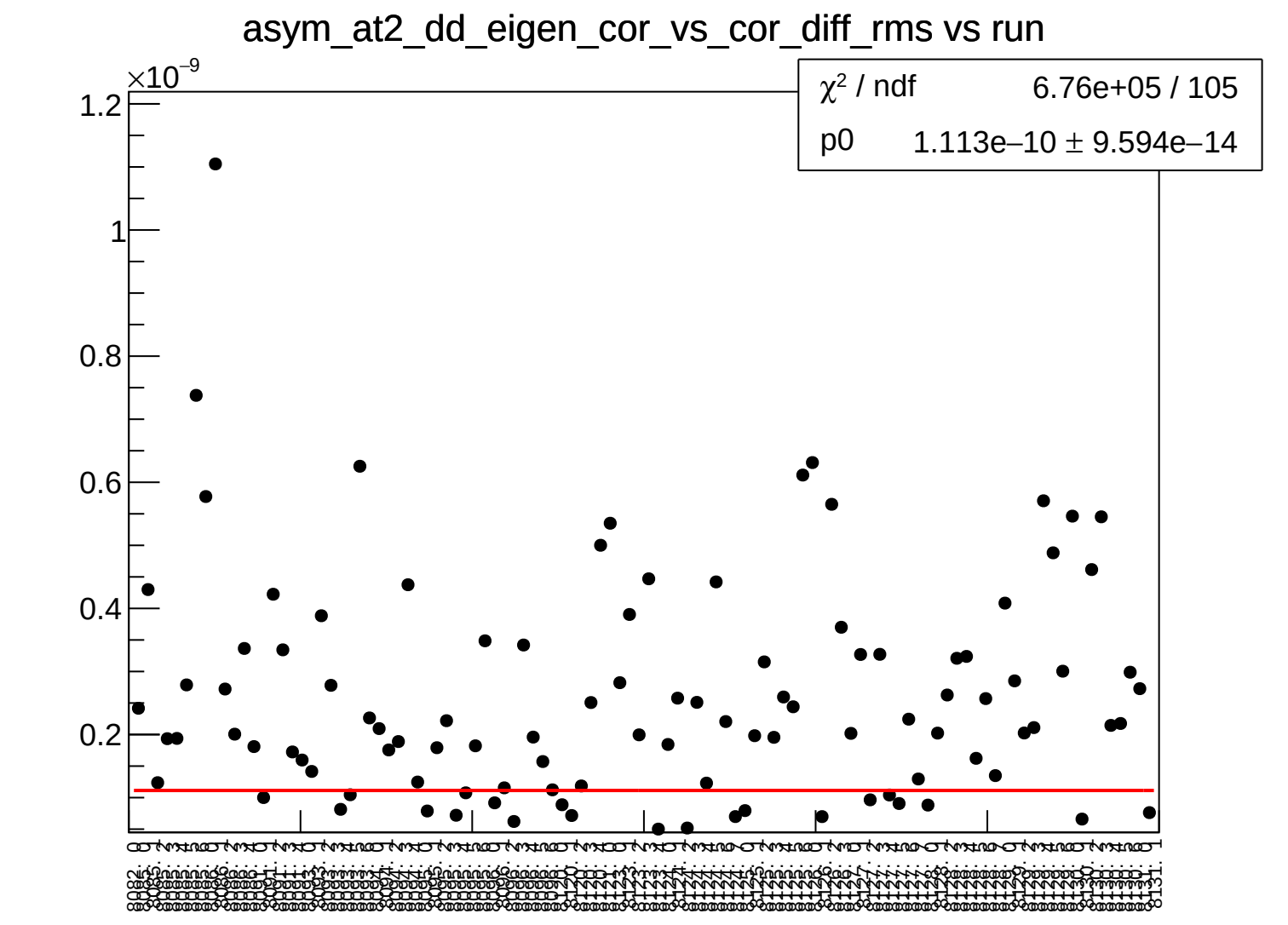

asym_at2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 105.5 / 105
p0 0.01962 ± 0.05248
pull
Entries 106
Mean 133.9
Std Dev 0
pull1D
Entries 106
Mean 0.03252
Std Dev 0.9973

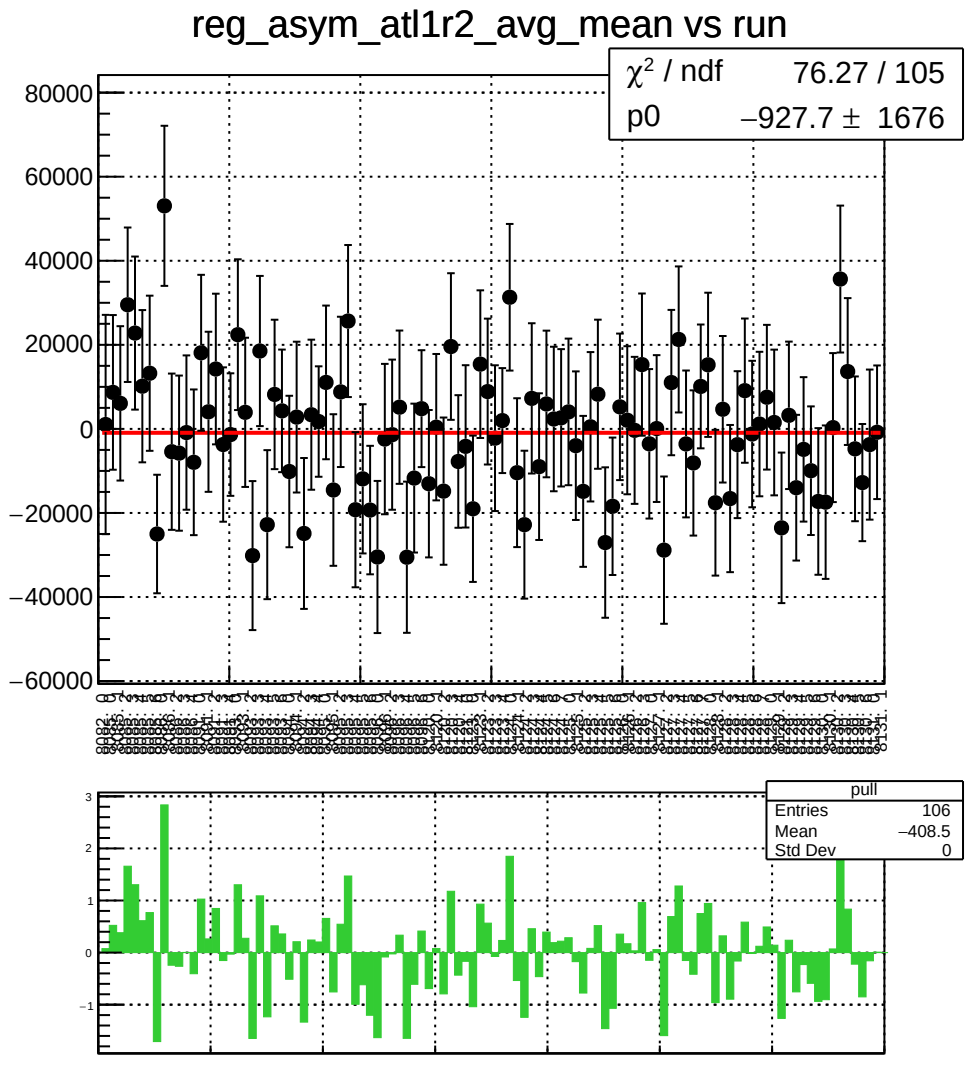

asym_at2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.605e+05 / 105
p0 49.26 ± 0.03711
1600
1400
1200
1000
800
600
400
200

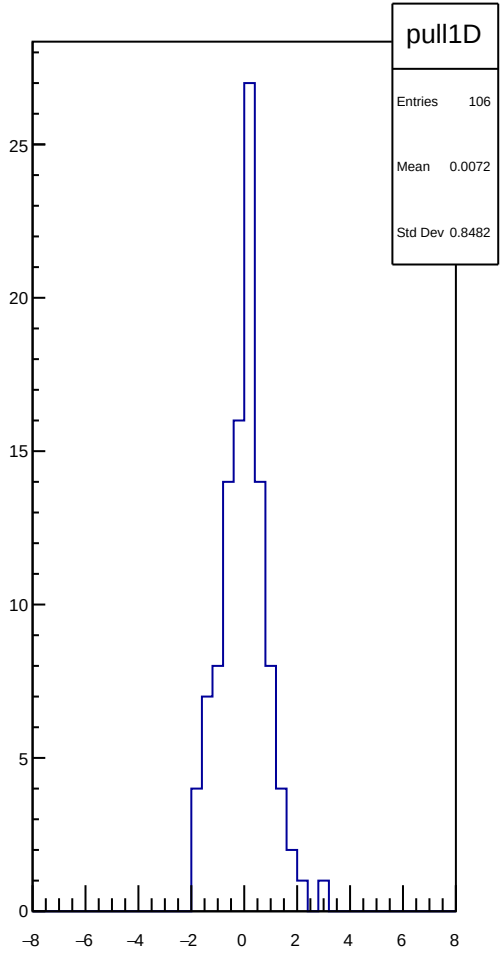

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.5 / 105
p0 0.01962 ± 0.05248
pull
Entries 106
Mean 133.9
Std Dev 0
pull1D
Entries 106
Mean 0.03252
Std Dev 0.9973

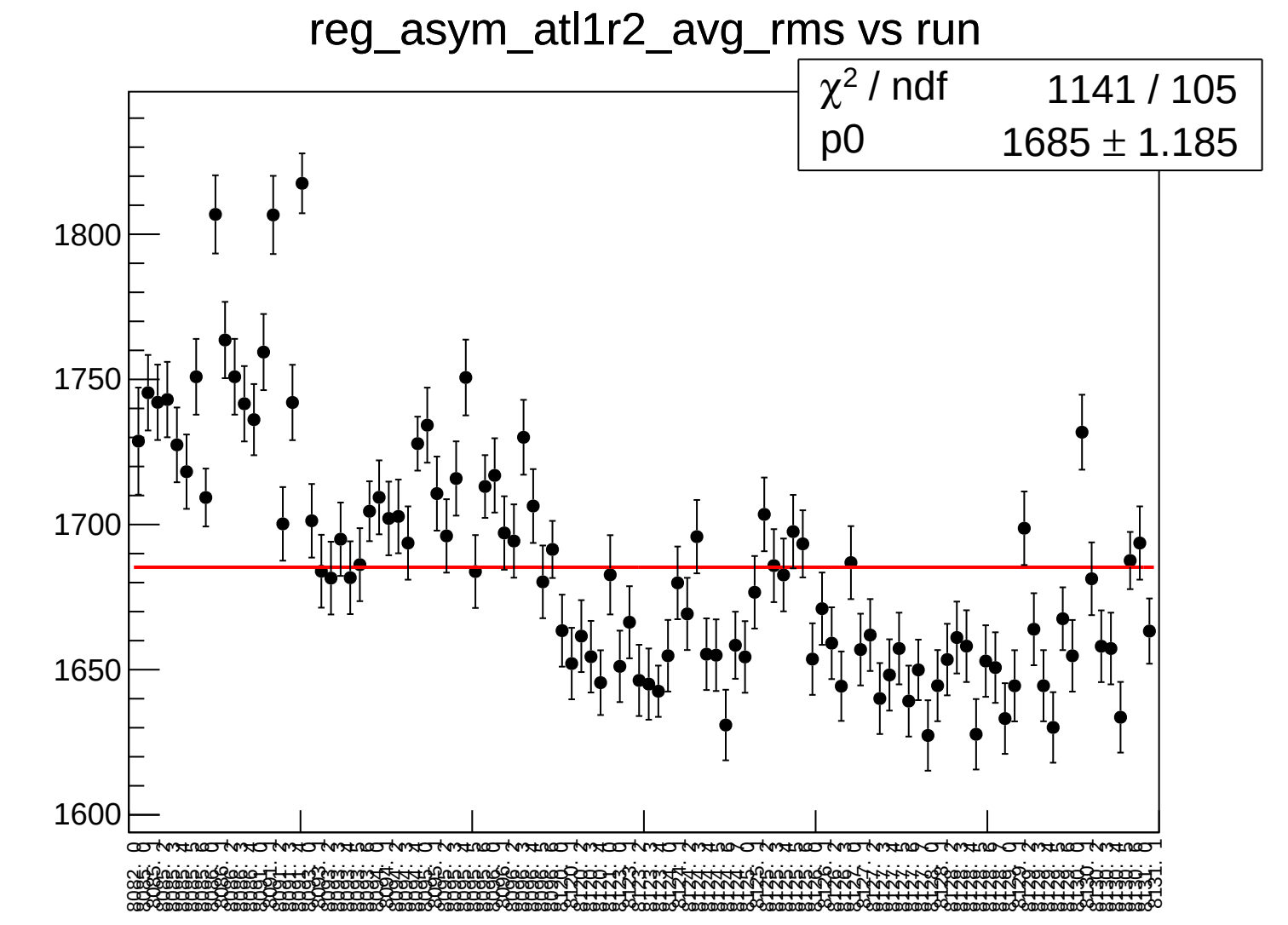

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.605e+05 / 105
p0 49.26 ± 0.03711
1600
1400
1200
1000
800
600
400
200

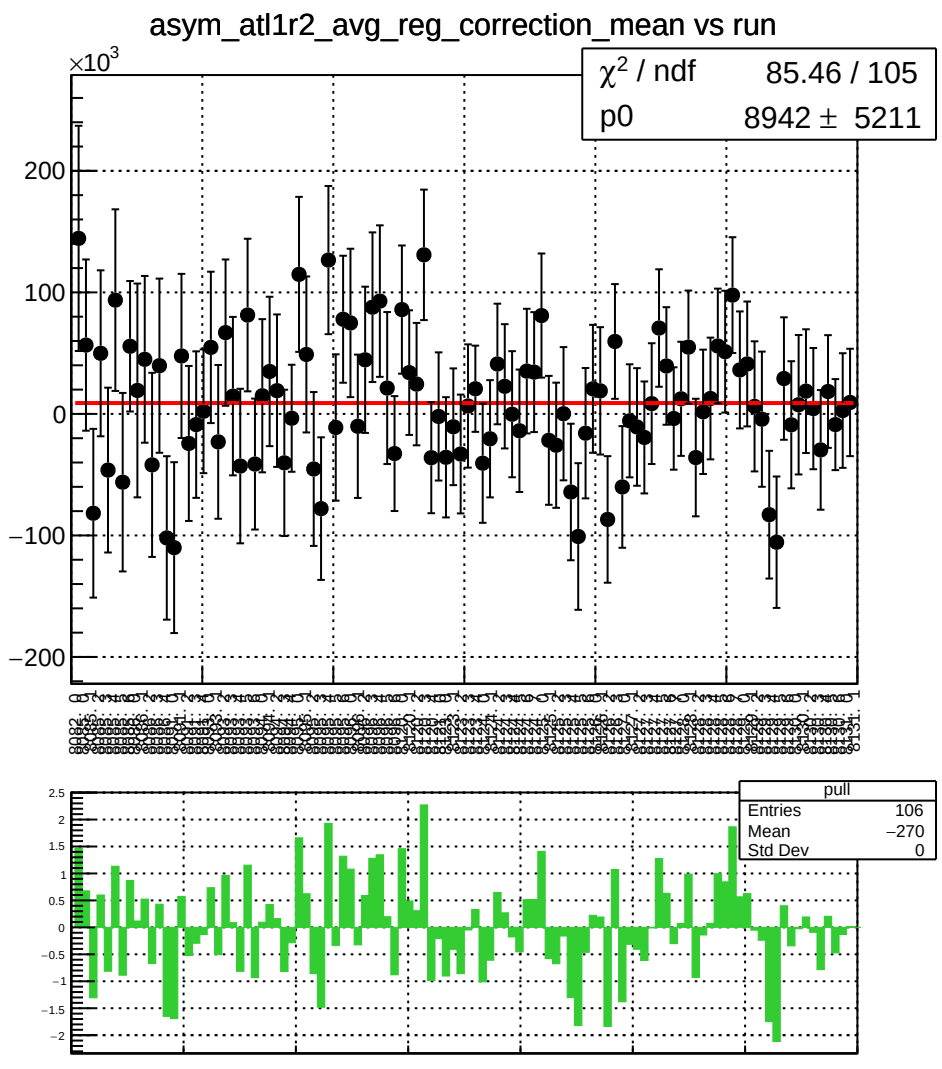

asym_at2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.01 / 105
p0 1.711e−13 ± 1.357e−13
pull
Entries 106
Mean 39.48
Std Dev 0
pull1D
Entries 106
Mean 0.02235
Std Dev 0.8685

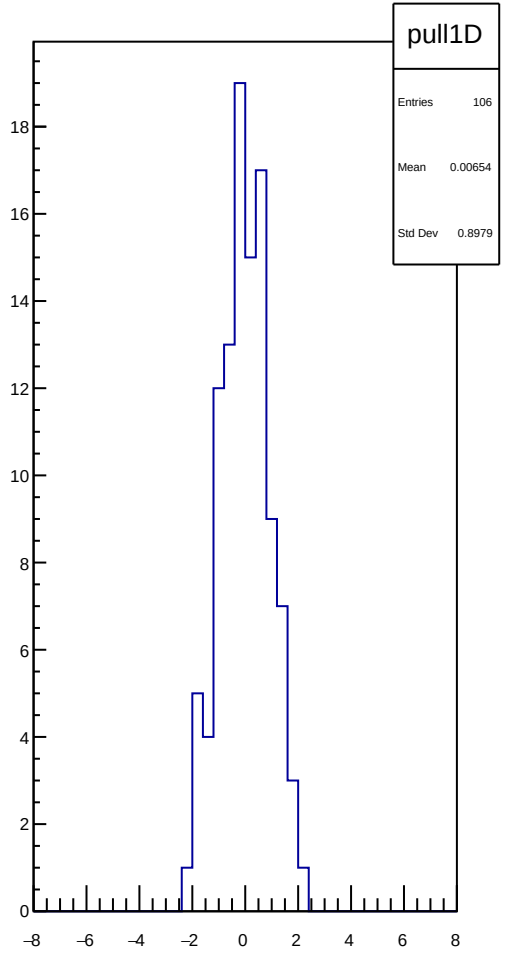

asym_at2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
1.2
1
0.8
0.6
0.4
0.2
χ² / ndf 6.76e+05 / 105
p0 1.113e−10 ± 9.594e−14

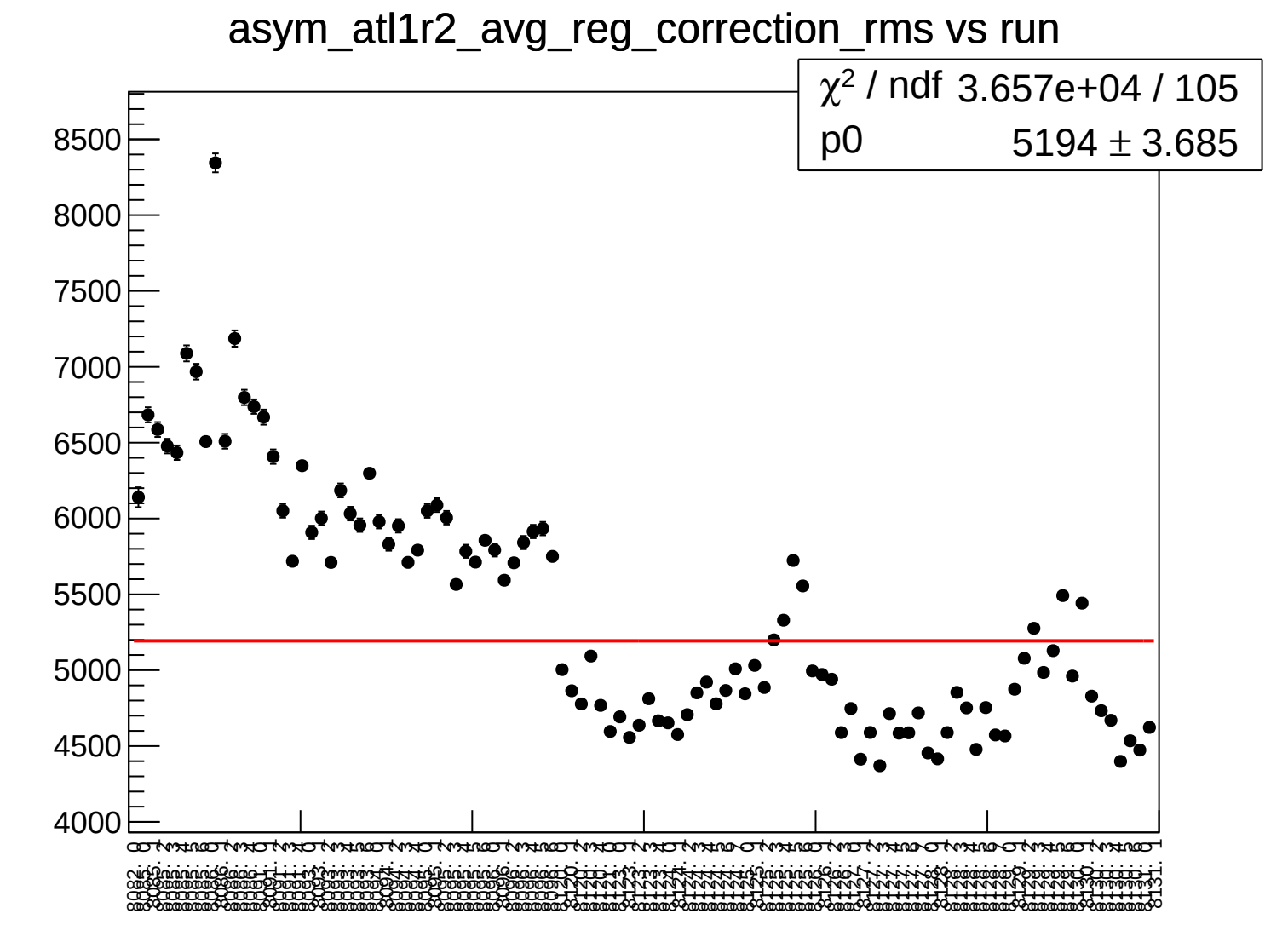

reg_asym_atl1r2_avg_mean vs run
χ² / ndf 76.27 / 105
p0 −927.7 ± 1676
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean −408.5
Std Dev 0
3
2
1
0
−1

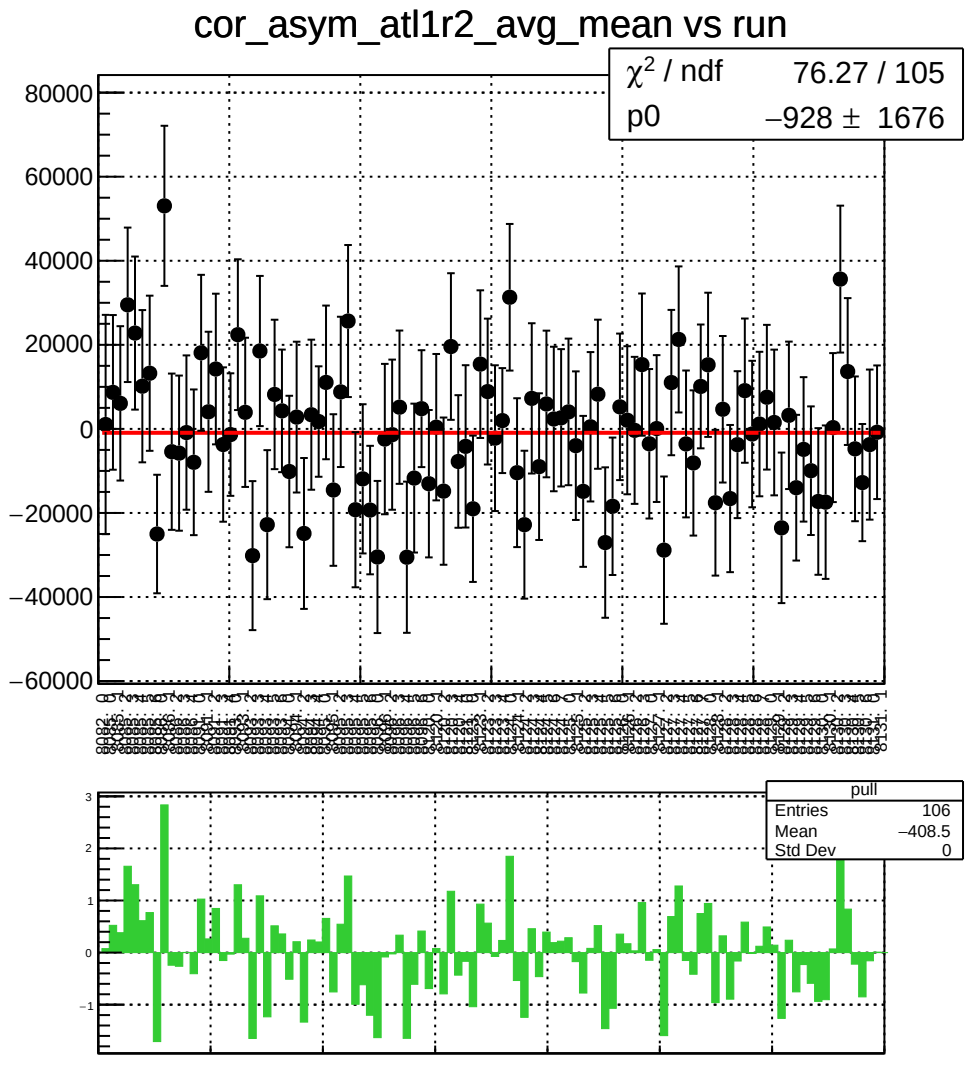

pull1D
Entries 106
Mean 0.0072
Std Dev 0.8482
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

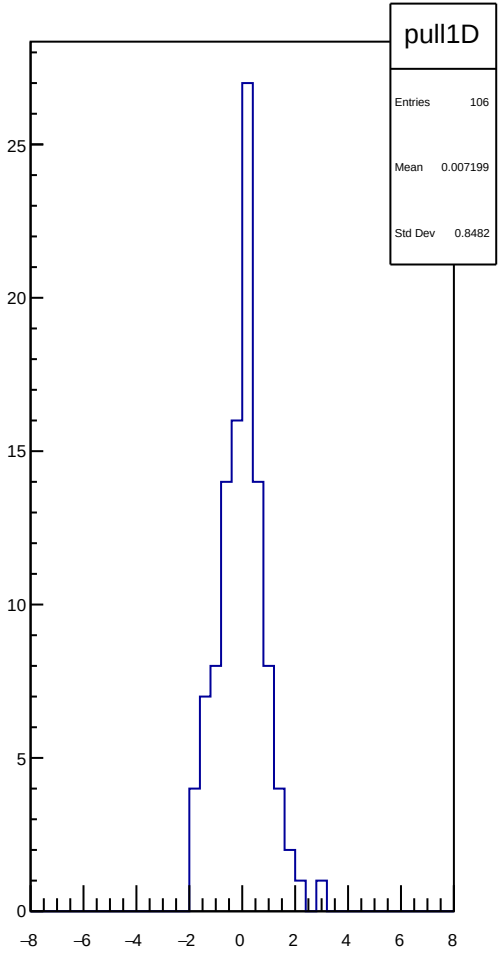

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 1141 / 105
p0 1685 ± 1.185
1800
1750
1700
1650
1600

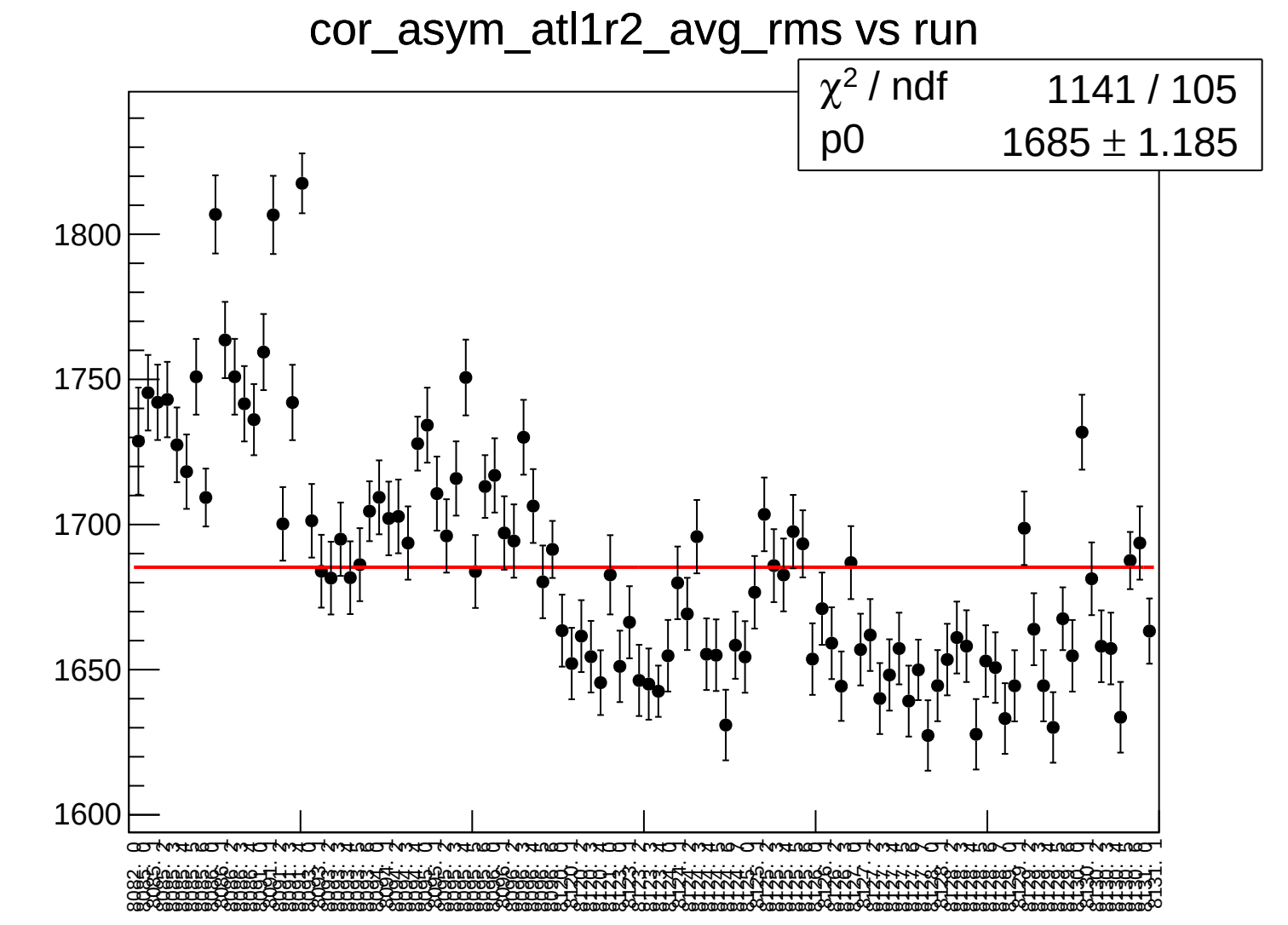

asym_atl1r2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 85.46 / 105
p0 8942 ± 5211
200
100
0
−100
−200
pull
Entries 106
Mean −270
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

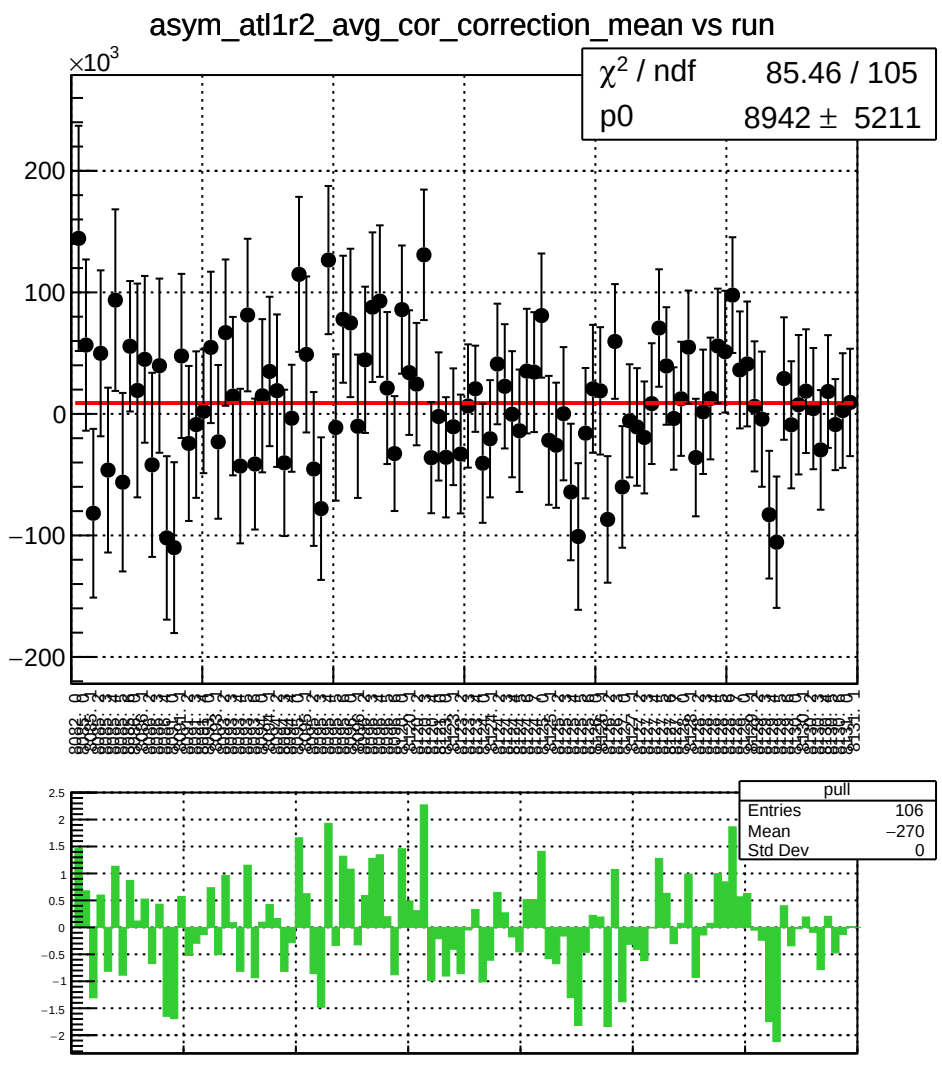

pull1D
Entries 106
Mean 0.00654
Std Dev 0.8979
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

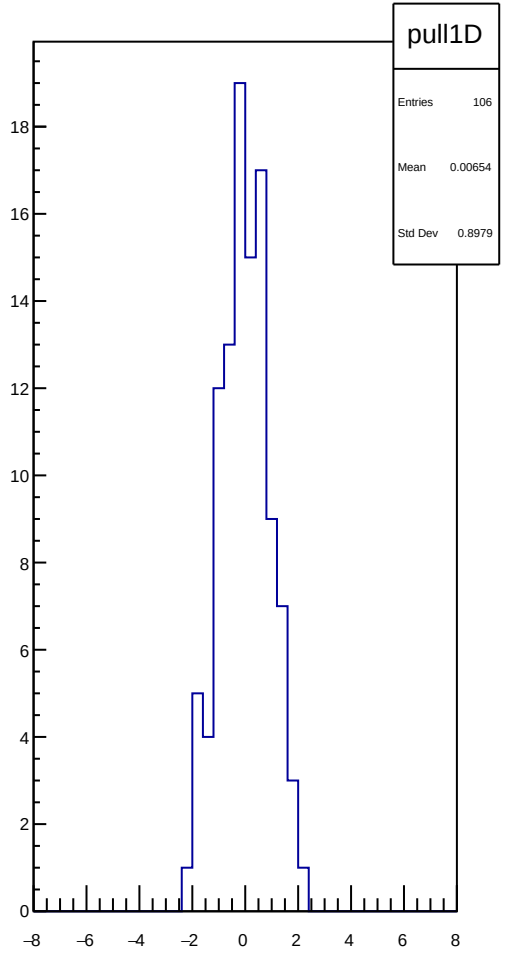

asym_atl1r2_avg_reg_correction_rms vs run
χ² / ndf 3.657e+04 / 105
p0 5194 ± 3.685
8500
8000
7500
7000
6500
6000
5500
5000
4500
4000


cor_asym_atl1r2_avg_mean vs run
χ² / ndf 76.27 / 105
p0 −928 ± 1676
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean −408.5
Std Dev 0
3
2
1
0
−1


pull1D
Entries 106
Mean 0.007199
Std Dev 0.8482
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_atl1r2_avg_rms vs run
χ² / ndf 1141 / 105
p0 1685 ± 1.185
1800
1750
1700
1650
1600


asym_atl1r2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 85.46 / 105
p0 8942 ± 5211
200
100
0
−100
−200
pull
Entries 106
Mean −270
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 106
Mean 0.00654
Std Dev 0.8979
18
16
14
12
10
8
6
4
2
0
−8
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−4
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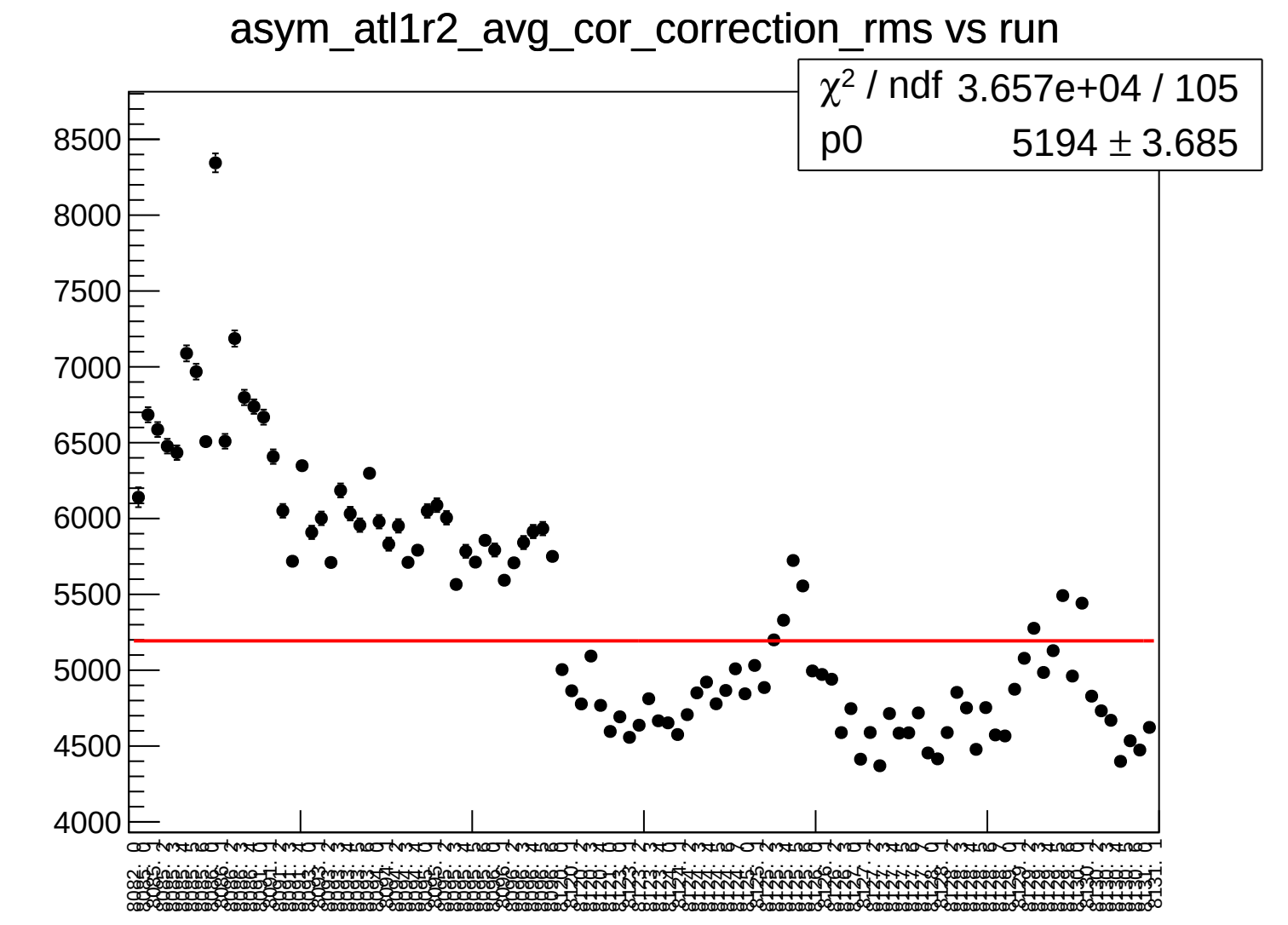
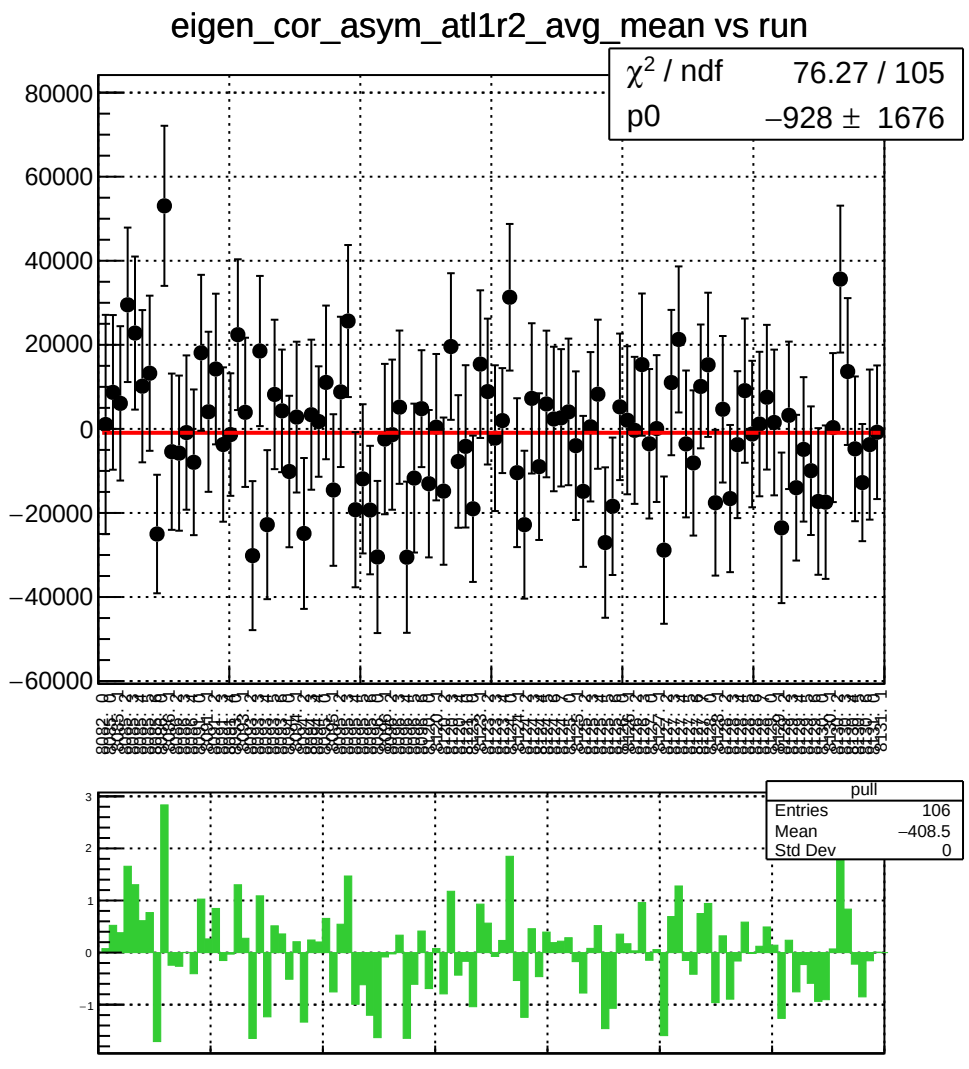
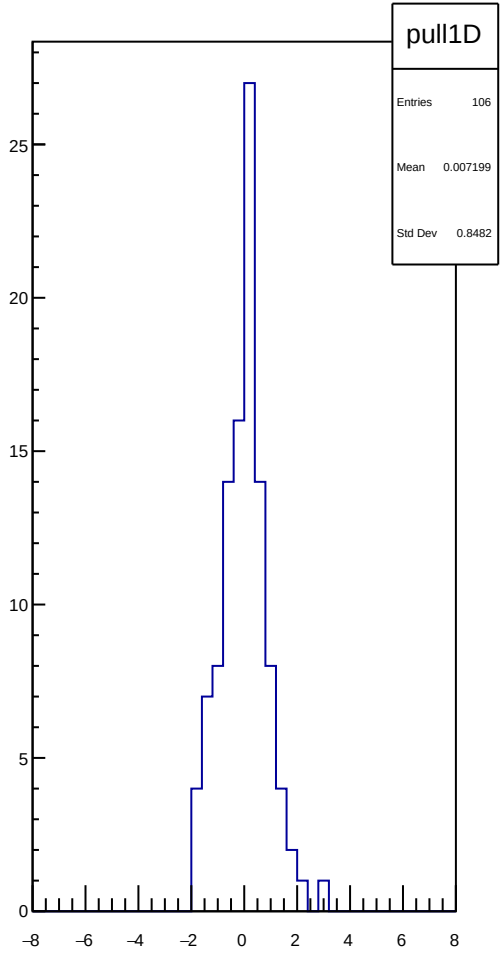
0
2
4
6
8


asym_atl1r2_avg_cor_correction_rms vs run
χ² / ndf 3.657e+04 / 105
p0 5194 ± 3.685
8500
8000
7500
7000
6500
6000
5500
5000
4500
4000


eigen_cor_asym_atl1r2_avg_mean vs run
χ² / ndf 76.27 / 105
p0 −928 ± 1676
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean −408.5
Std Dev 0
3
2
1
0
−1


pull1D
Entries 106
Mean 0.007199
Std Dev 0.8482
25
20
15
10
5
0
−8
−6
−4
−2
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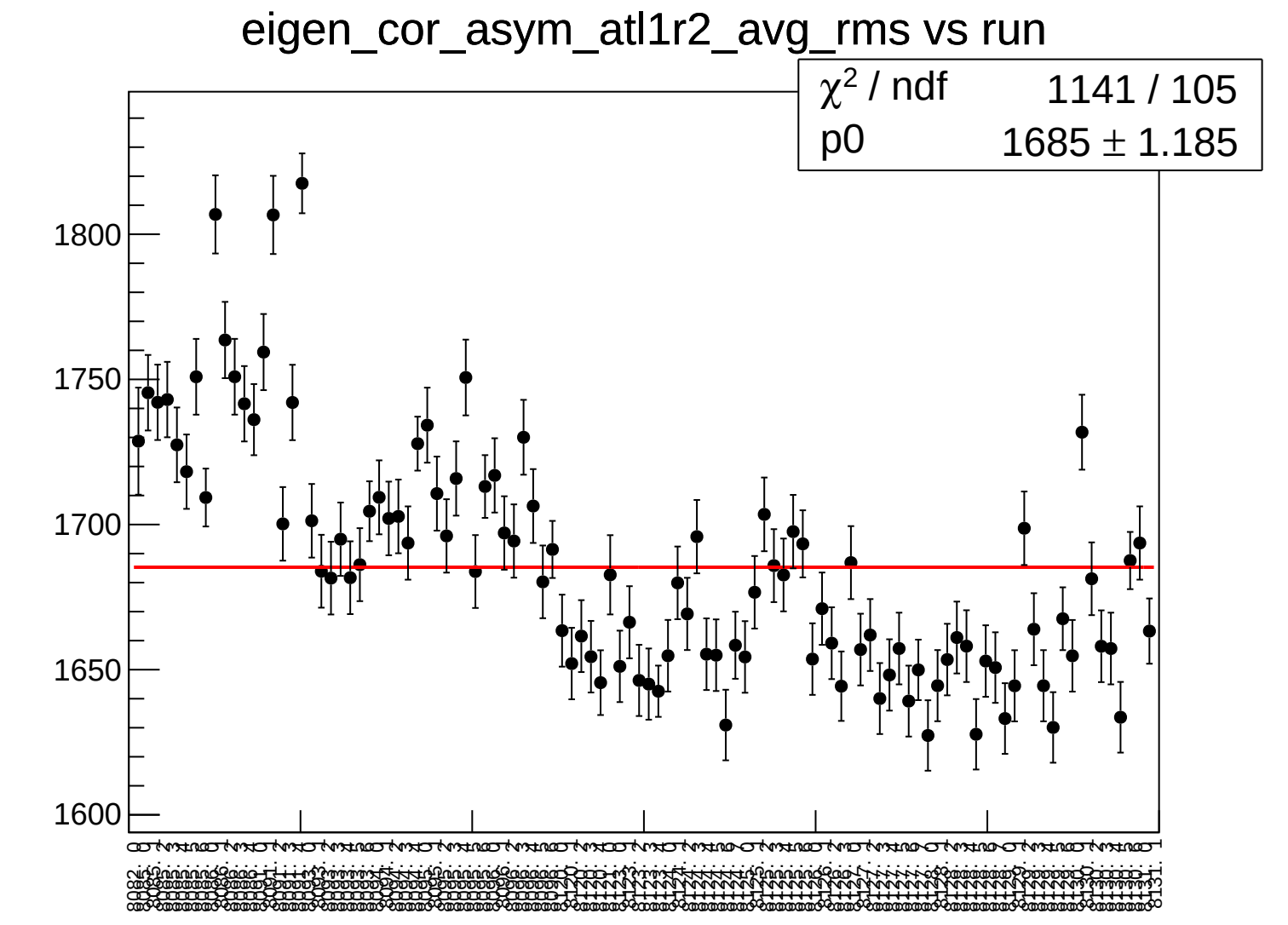
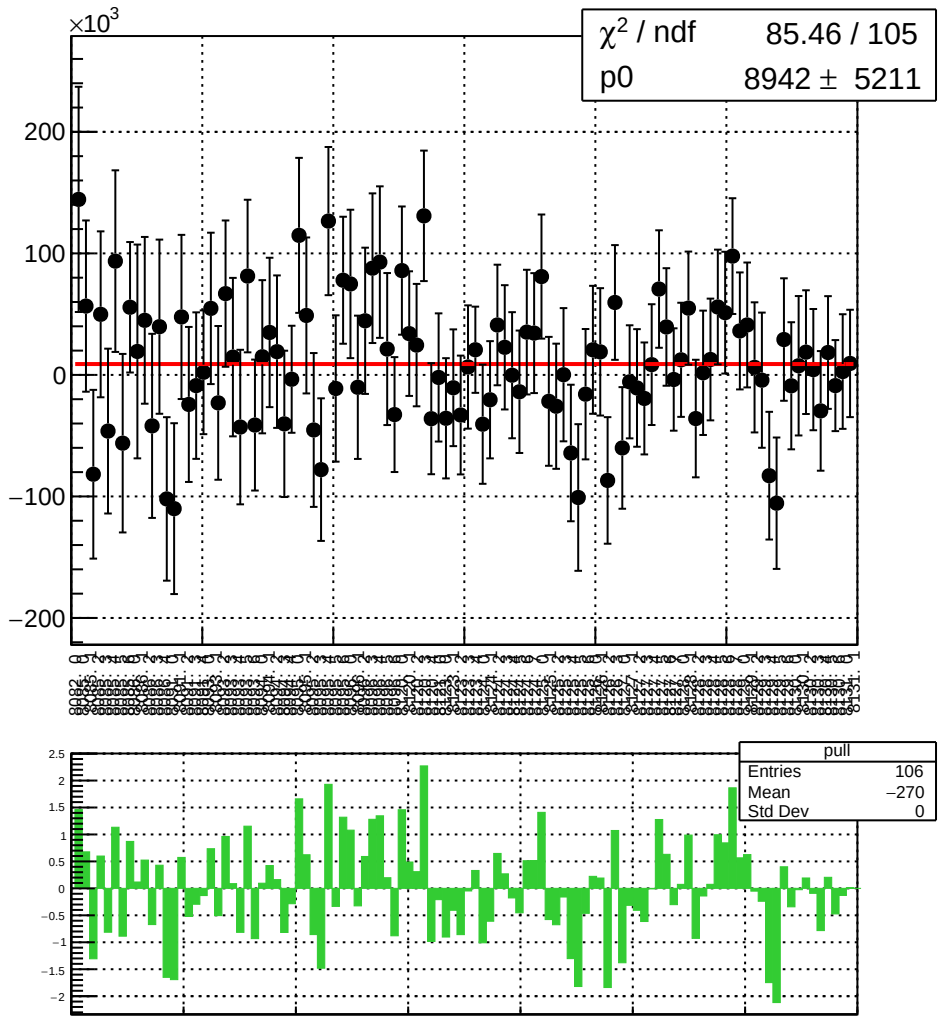
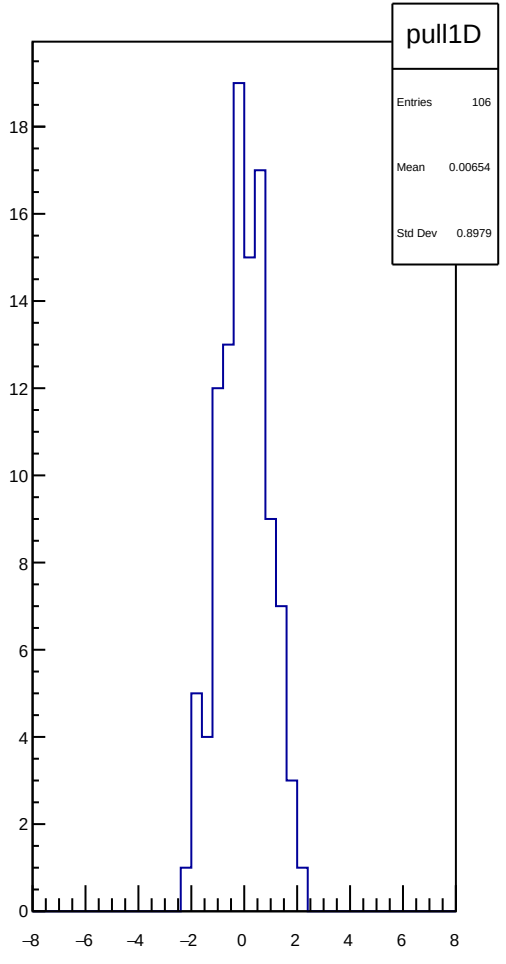
2
4
6
8


eigen_cor_asym_atl1r2_avg_rms vs run
χ² / ndf 1141 / 105
p0 1685 ± 1.185
1800
1750
1700
1650
1600


asym_atl1r2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 85.46 / 105
p0 8942 ± 5211
200
100
0
−100
−200
pull
Entries 106
Mean −270
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 106
Mean 0.00654
Std Dev 0.8979
18
16
14
12
10
8
6
4
2
0
−8
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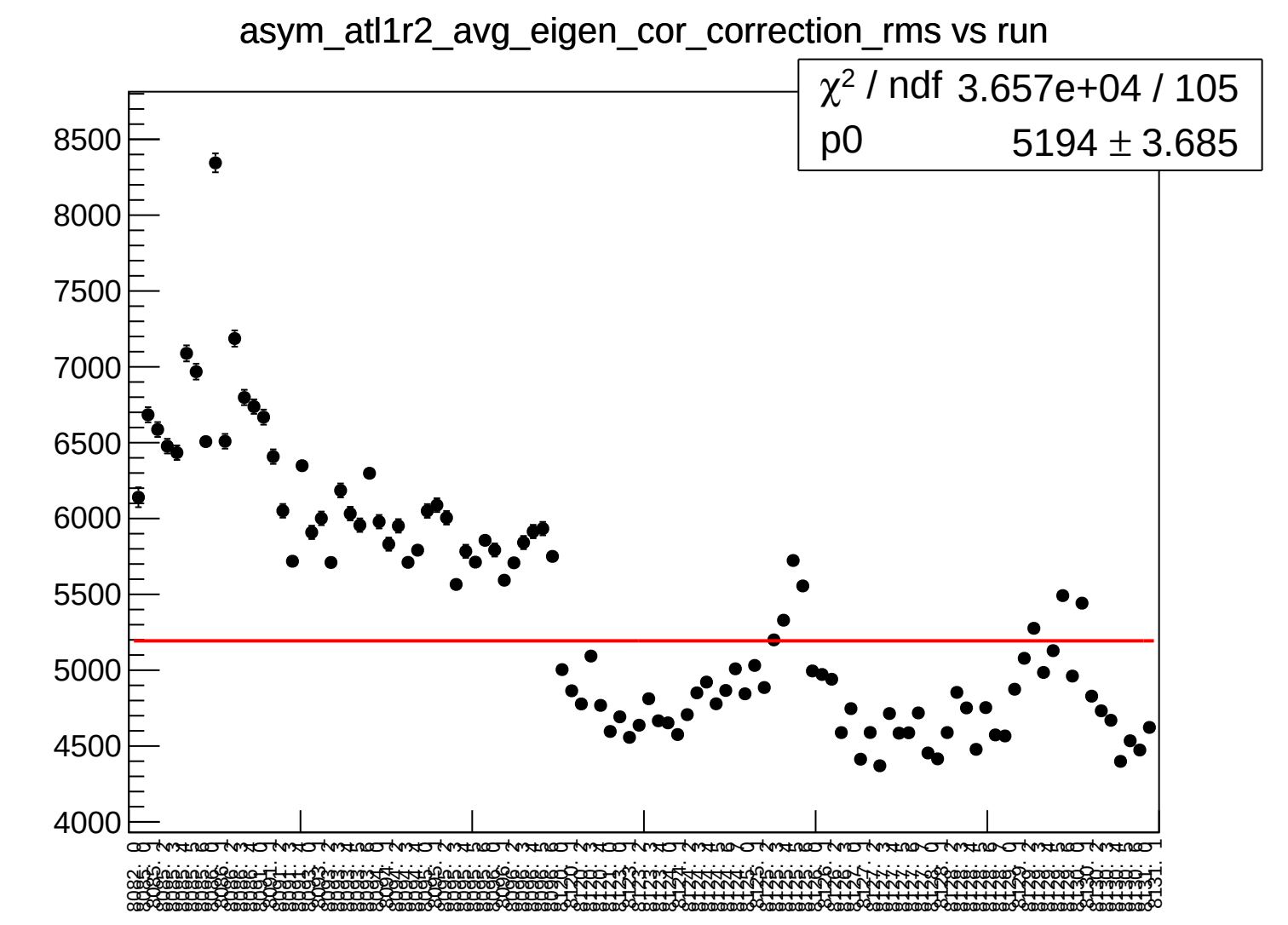
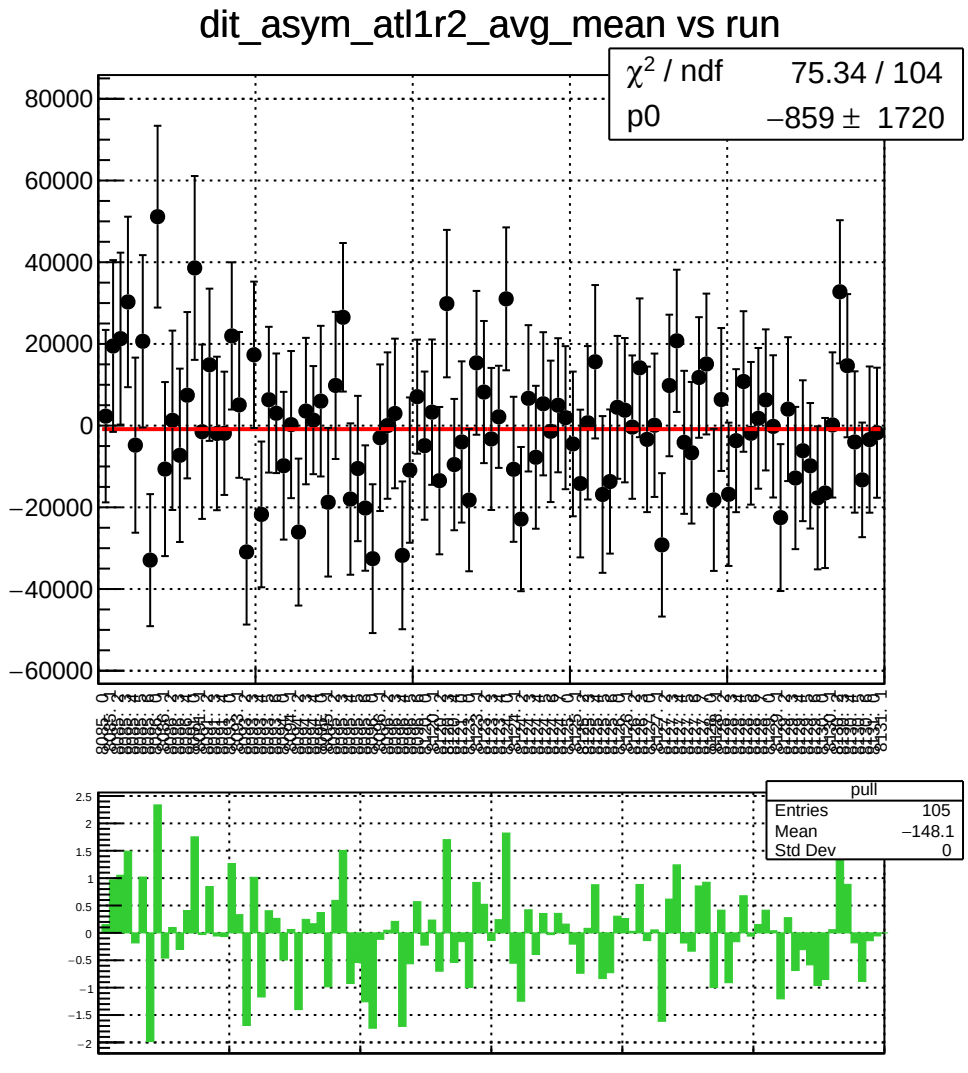
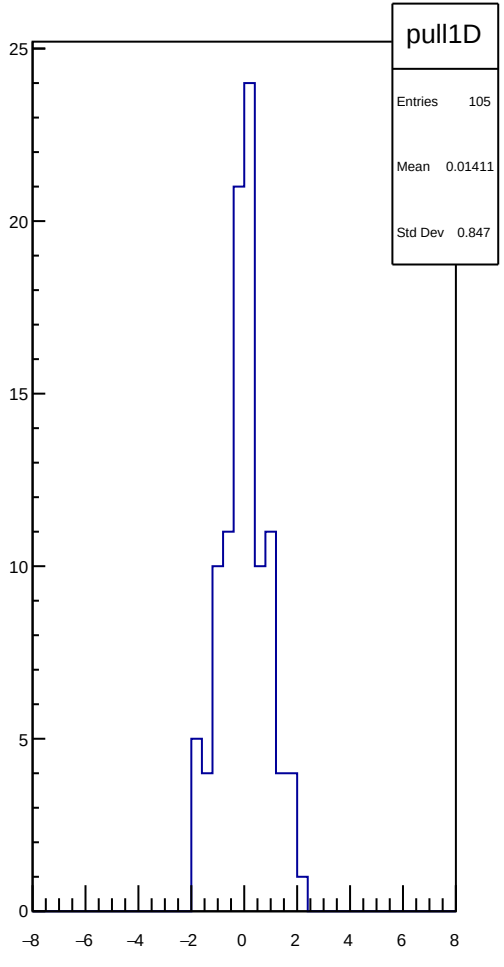
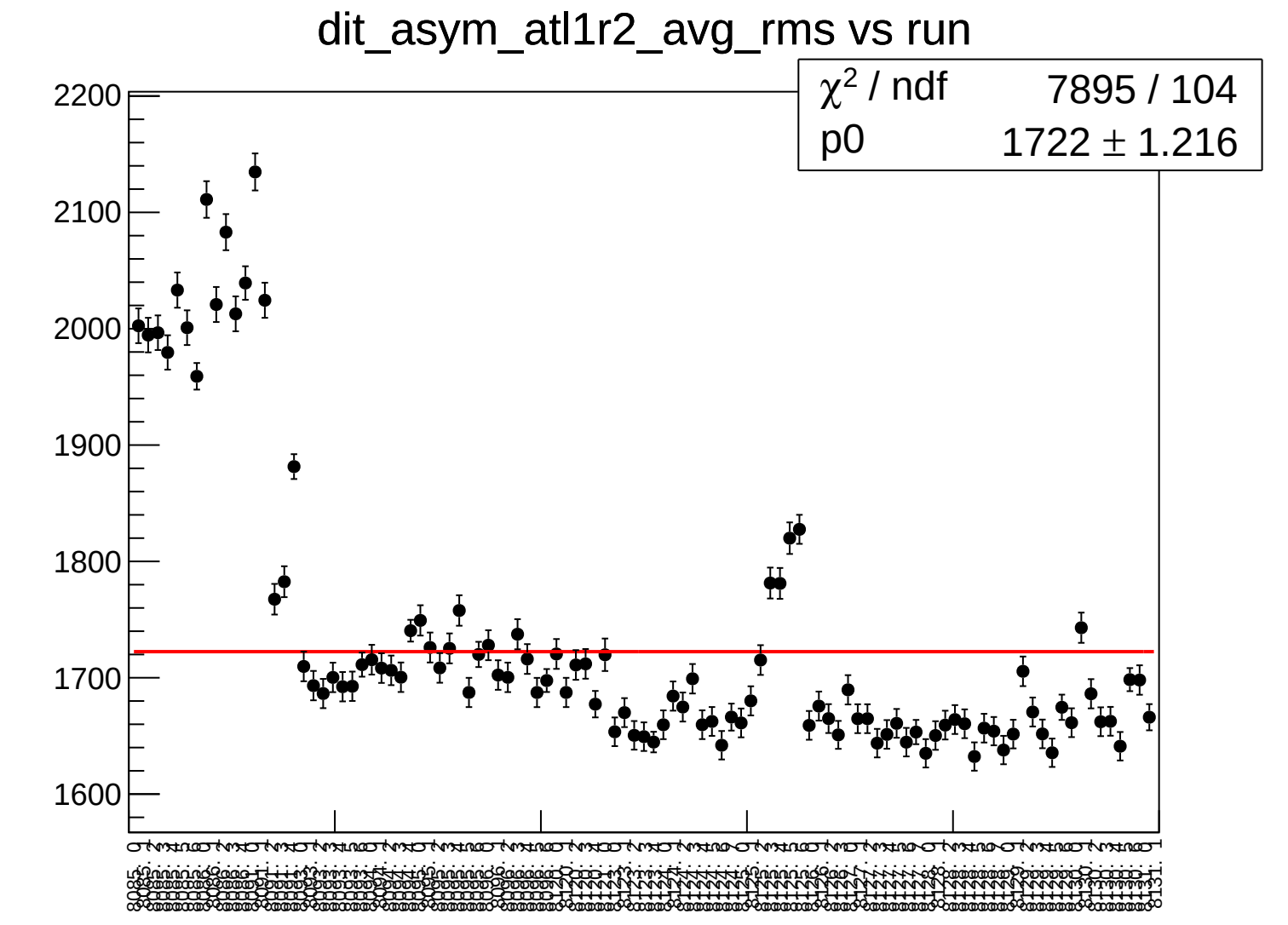
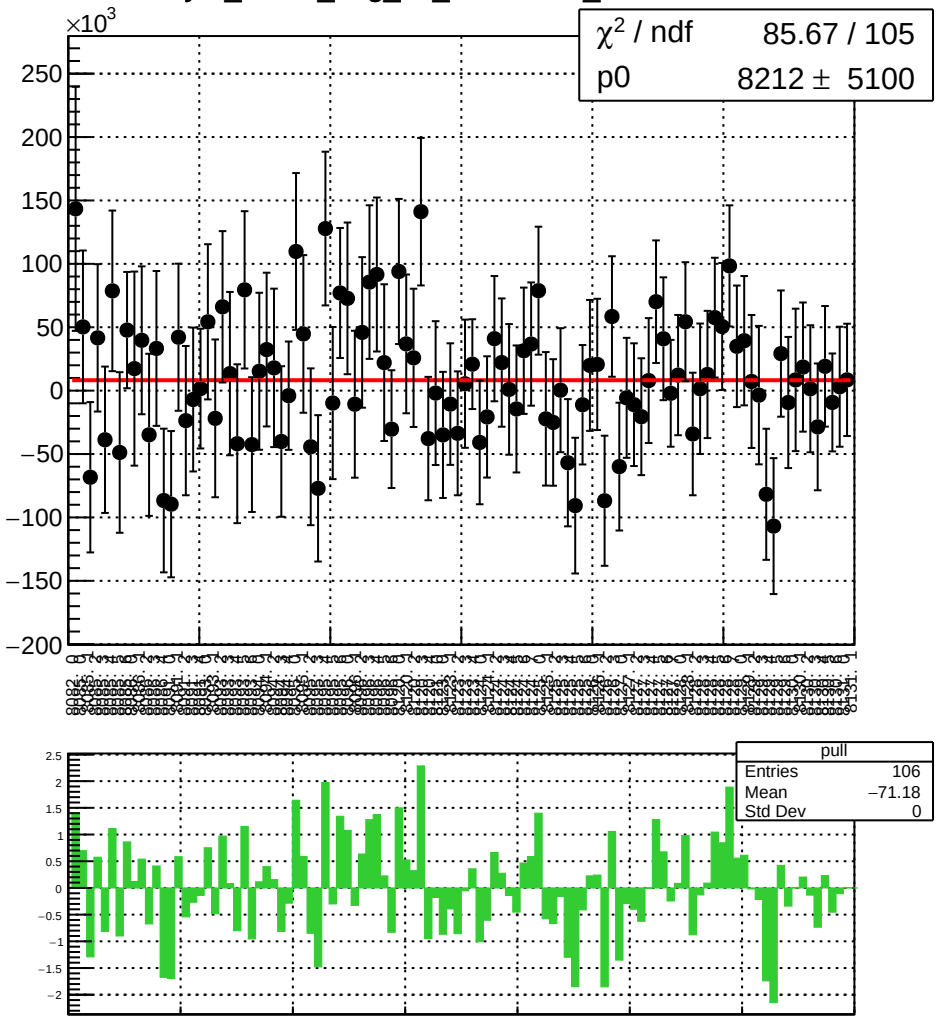
2
4
6
8

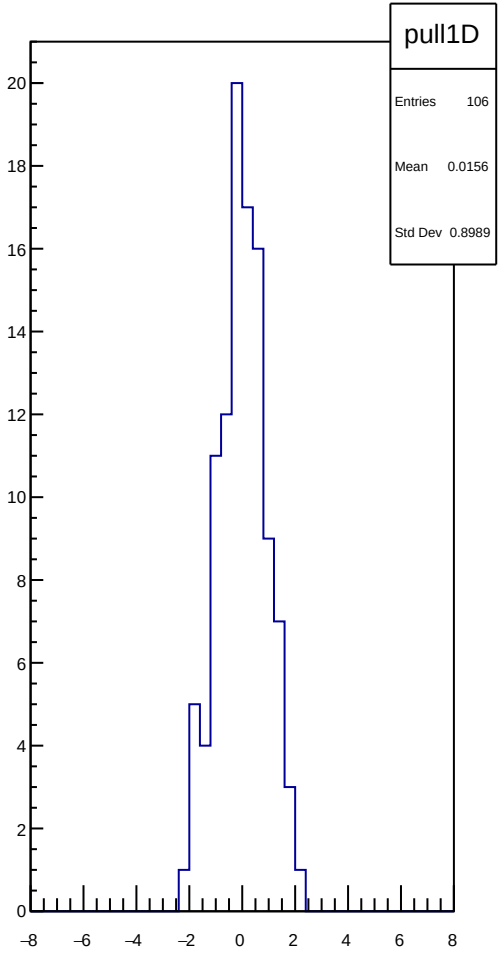

asym_atl1r2_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.657e+04 / 105
p0 5194 ± 3.685
8500
8000
7500
7000
6500
6000
5500
5000
4500
4000

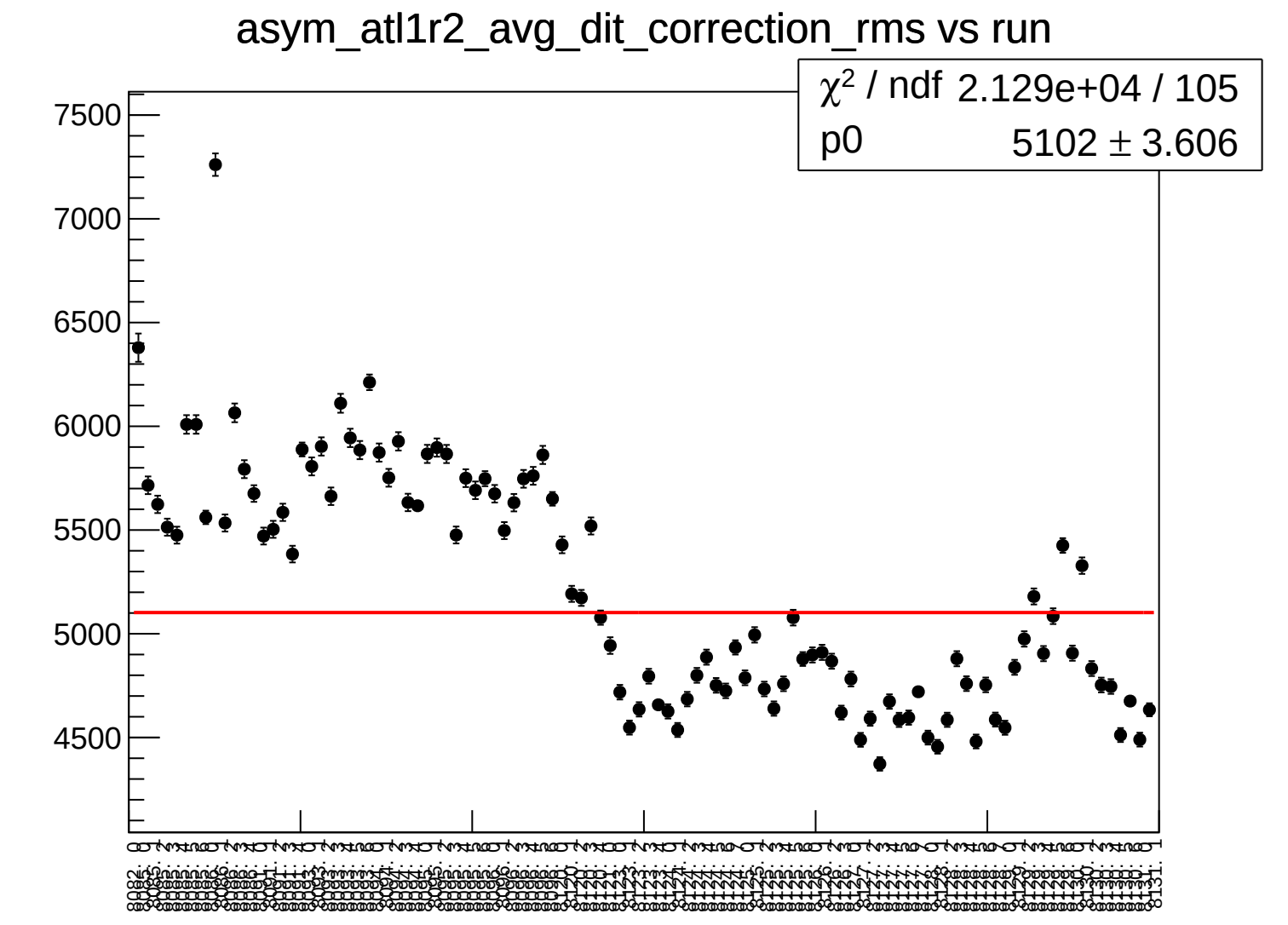

dit_asym_atl1r2_avg_mean vs run
χ² / ndf 75.34 / 104
p0 −859 ± 1720
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean −148.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

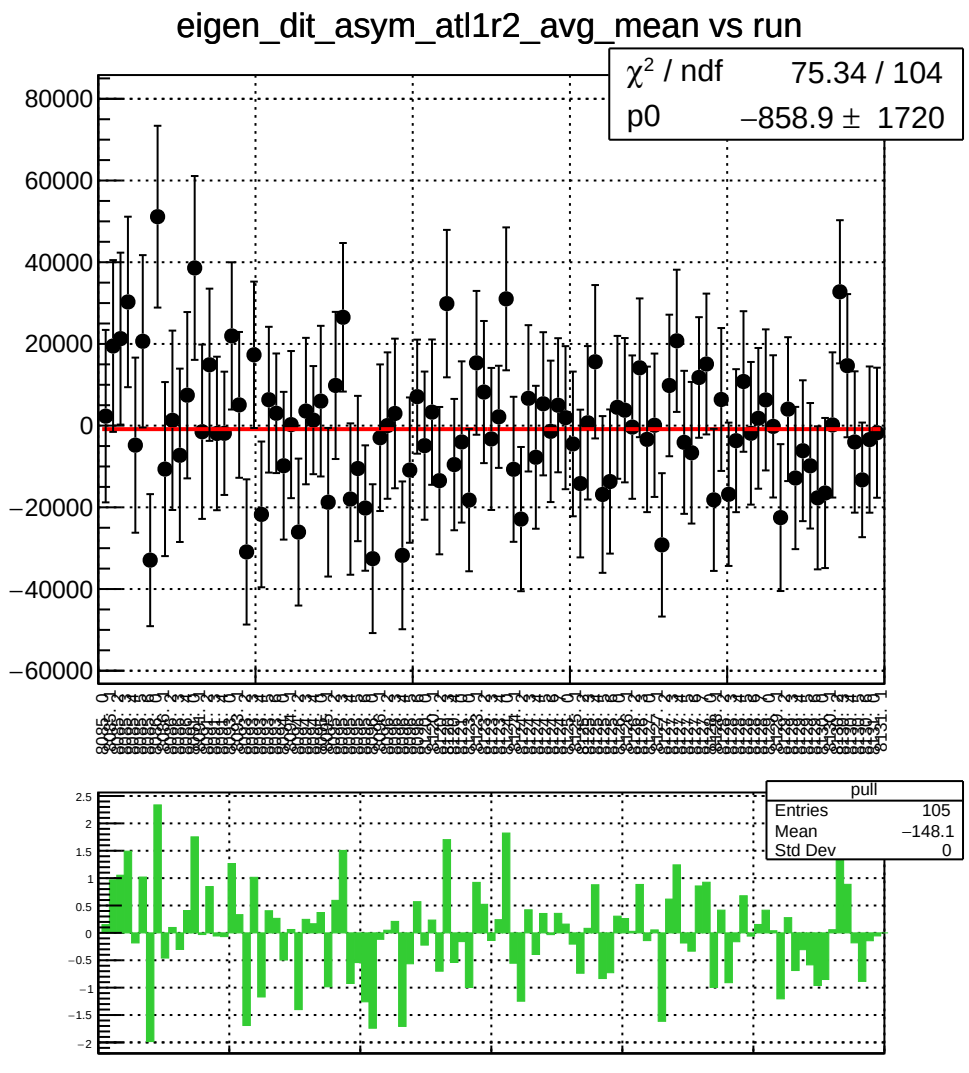

pull1D
Entries 105
Mean 0.01411
Std Dev 0.847
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

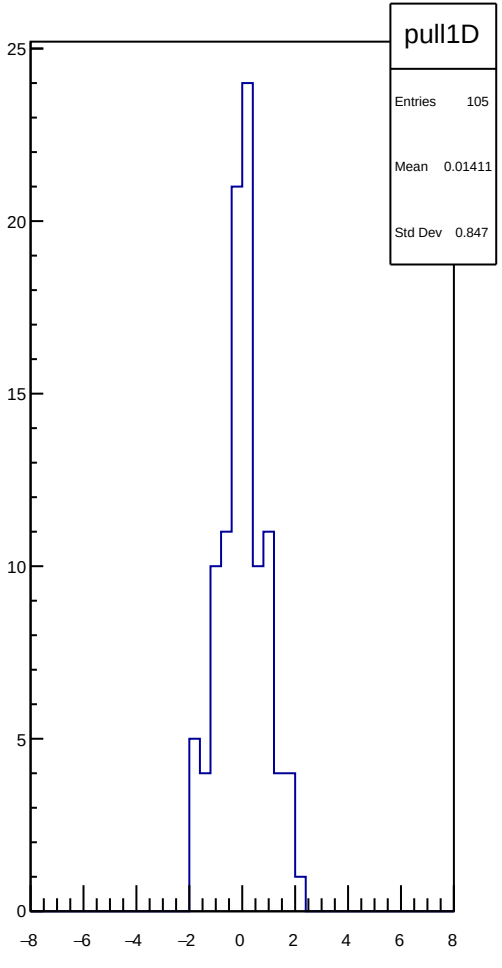

dit_asym_atl1r2_avg_rms vs run
χ² / ndf 7895 / 104
p0 1722 ± 1.216
2200
2100
2000
1900
1800
1700
1600

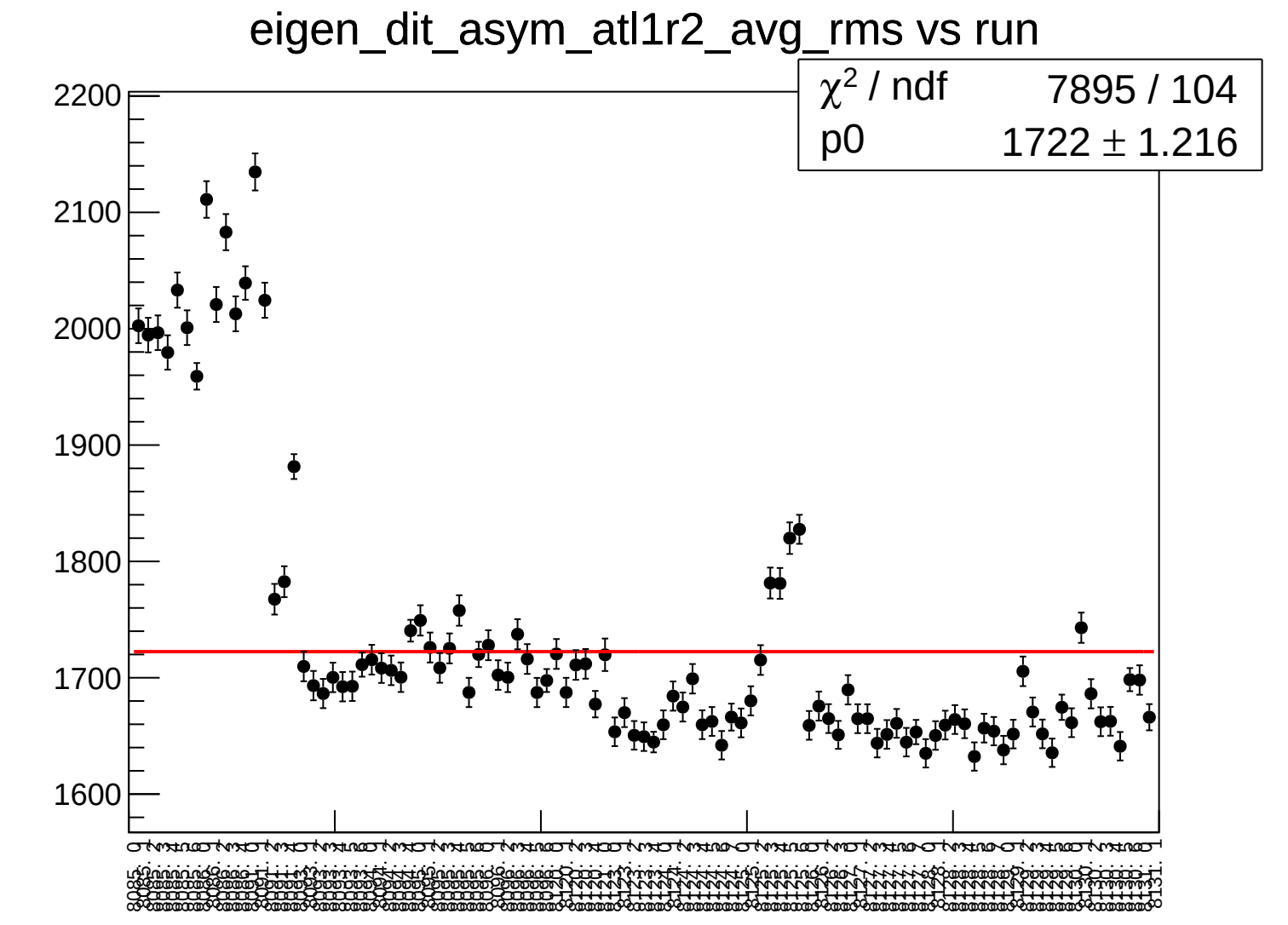

asym_atl1r2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 85.67 / 105
p0 8212 ± 5100
pull
Entries 106
Mean −71.18
Std Dev 0

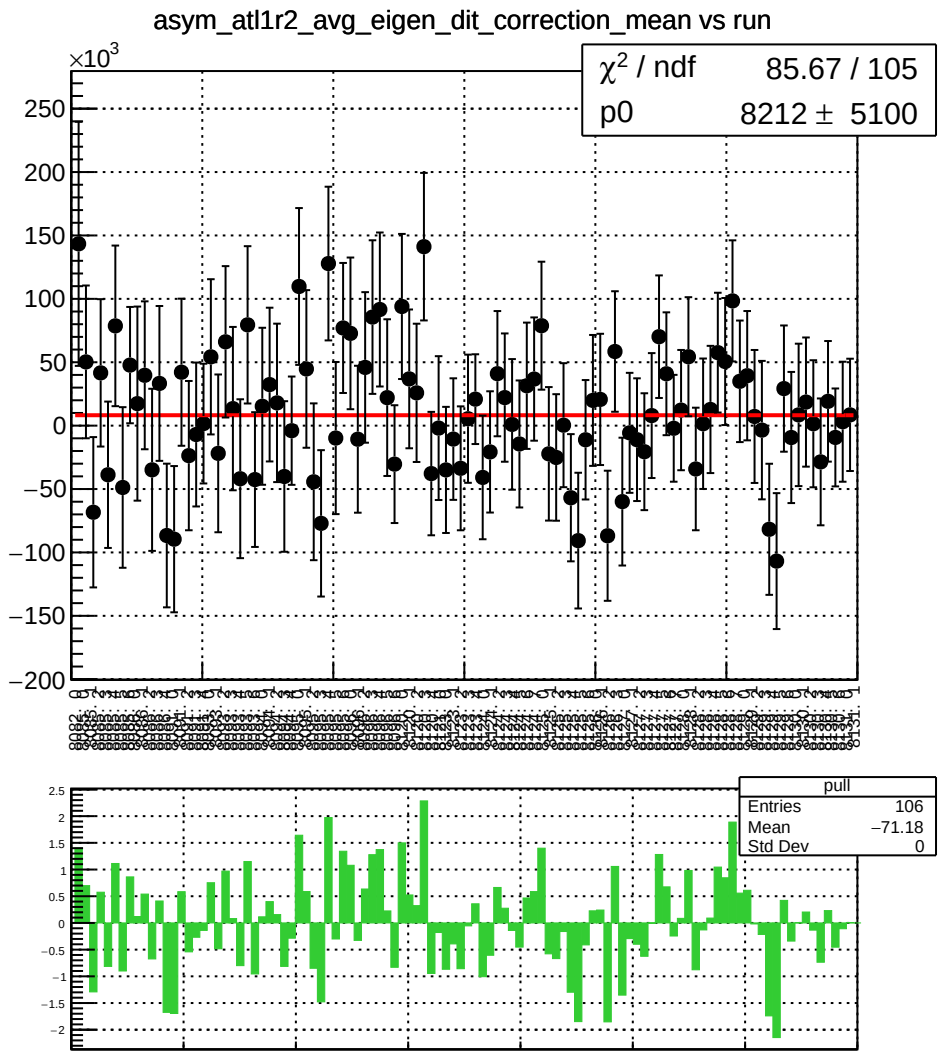

pull1D
Entries 106
Mean 0.0156
Std Dev 0.8989

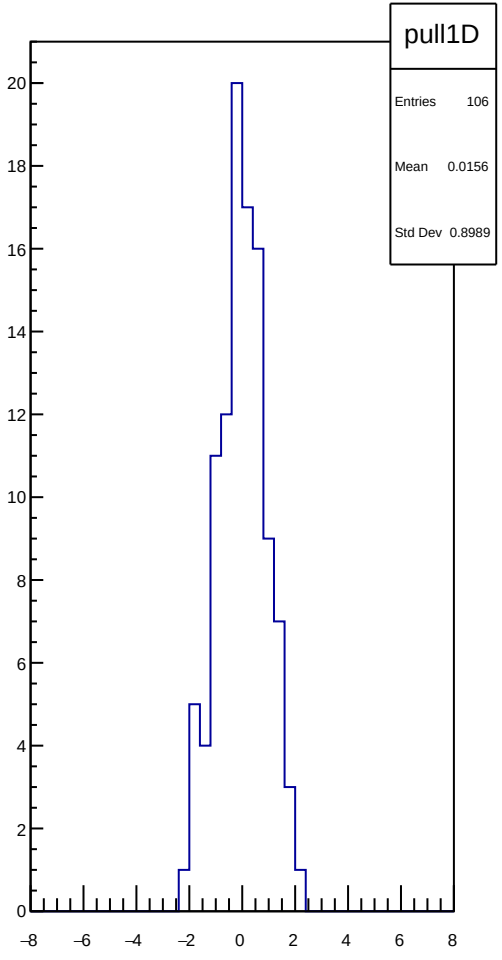

asym_atl1r2_avg_dit_correction_rms vs run
χ² / ndf 2.129e+04 / 105
p0 5102 ± 3.606
7500
7000
6500
6000
5500
5000
4500

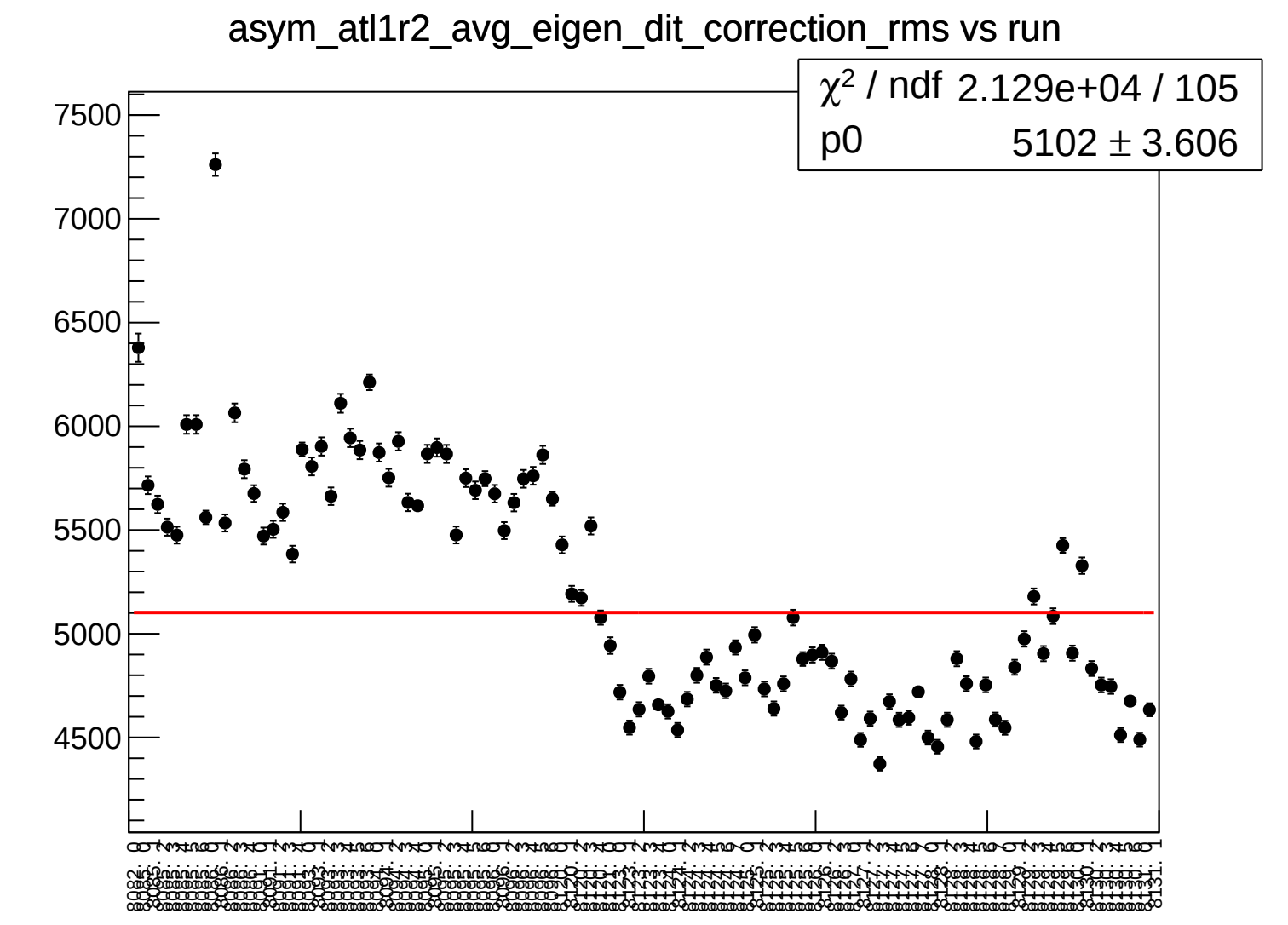

eigen_dit_asym_atl1r2_avg_mean vs run
χ² / ndf 75.34 / 104
p0 −858.9 ± 1720
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean −148.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

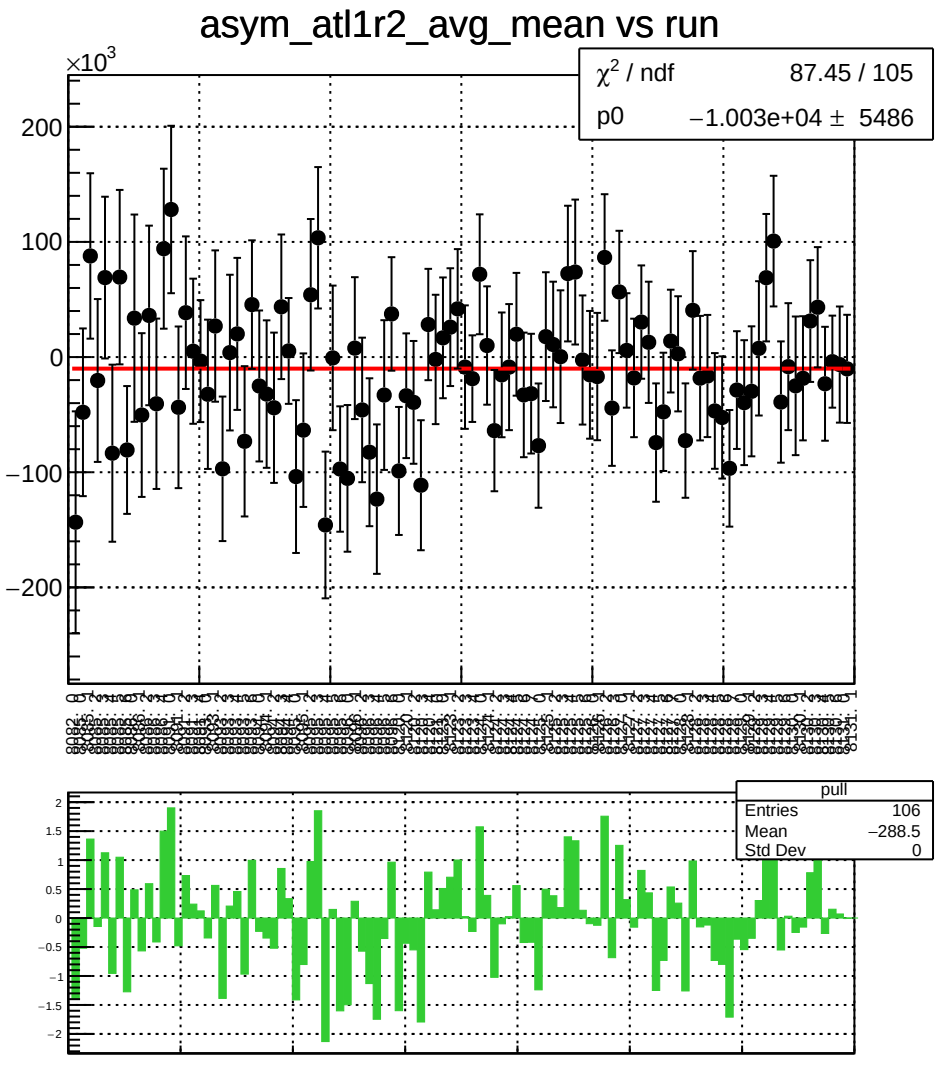

pull1D
Entries 105
Mean 0.01411
Std Dev 0.847
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

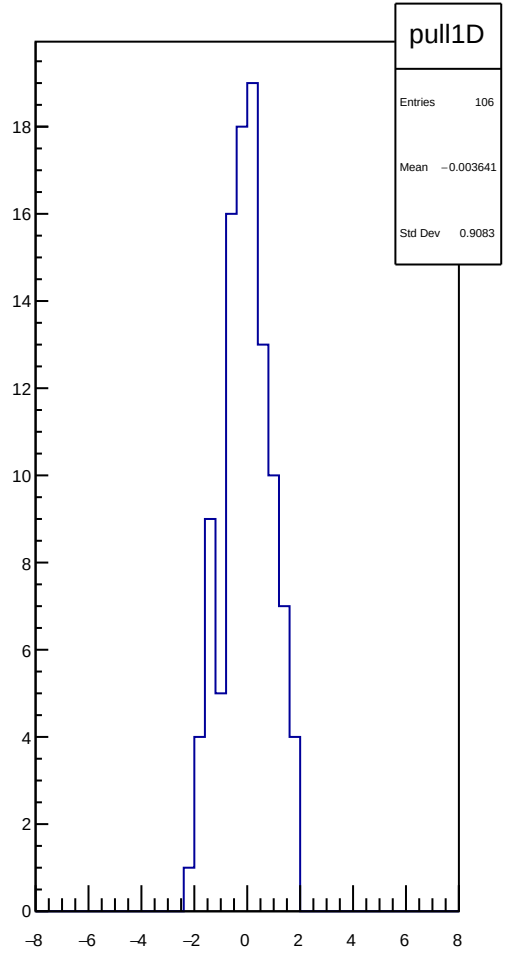

eigen_dit_asym_atl1r2_avg_rms vs run
$\chi^2$ / ndf 7895 / 104
p0 1722 ± 1.216
2200
2100
2000
1900
1800
1700
1600

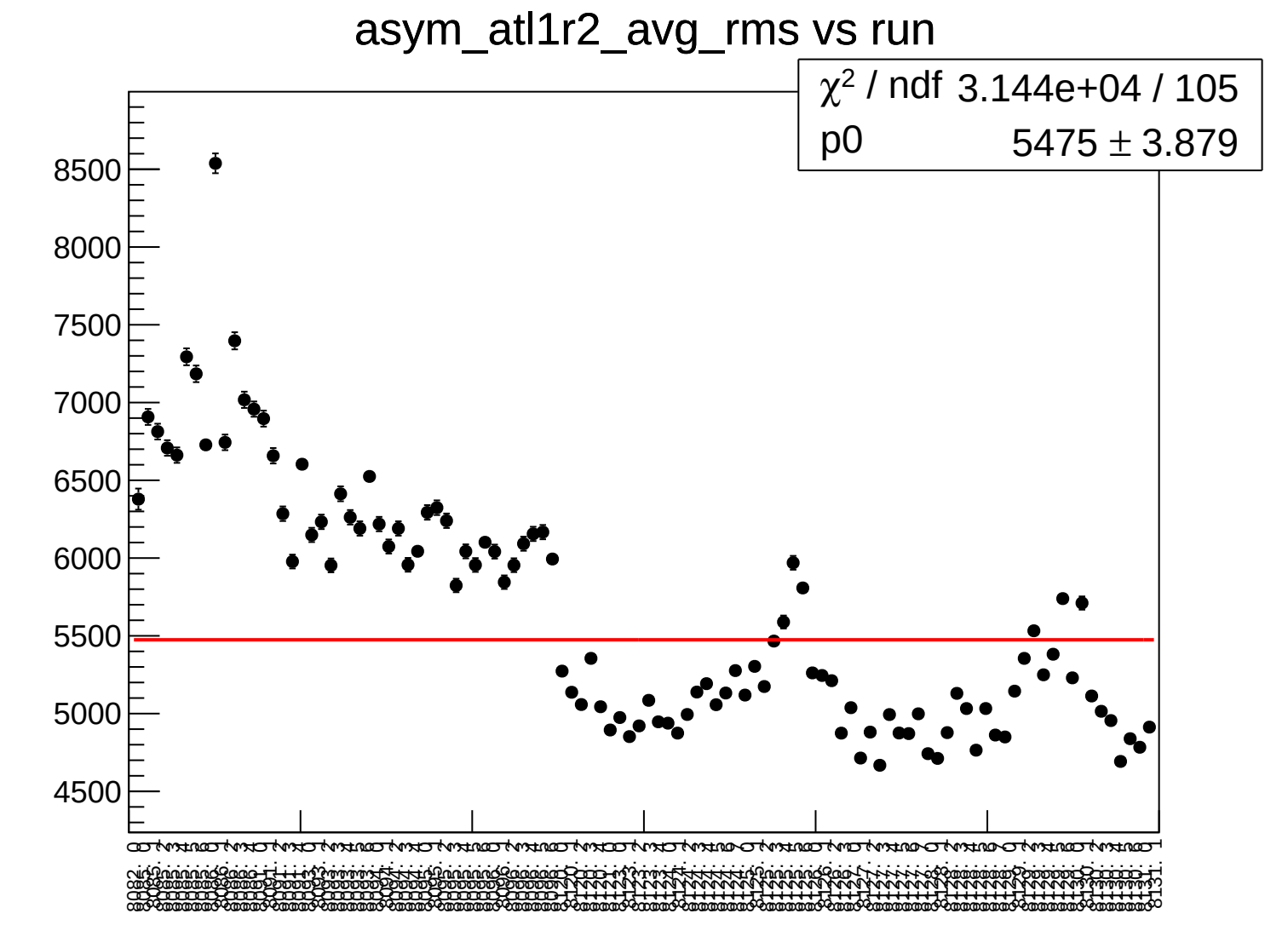

asym_atl1r2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 85.67 / 105
p0 8212 ± 5100
pull
Entries 106
Mean −71.18
Std Dev 0

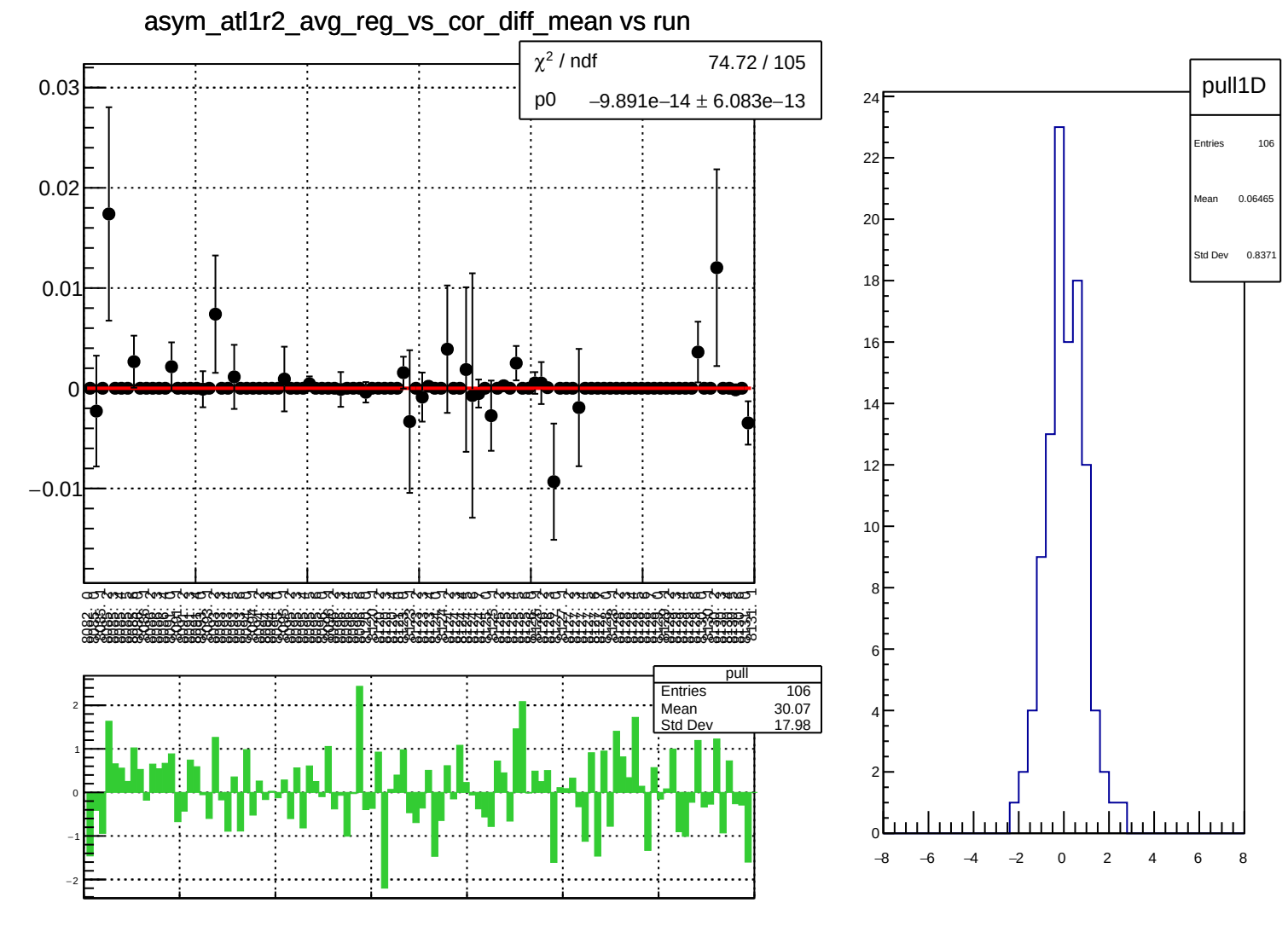

pull1D
Entries 106
Mean 0.0156
Std Dev 0.8989

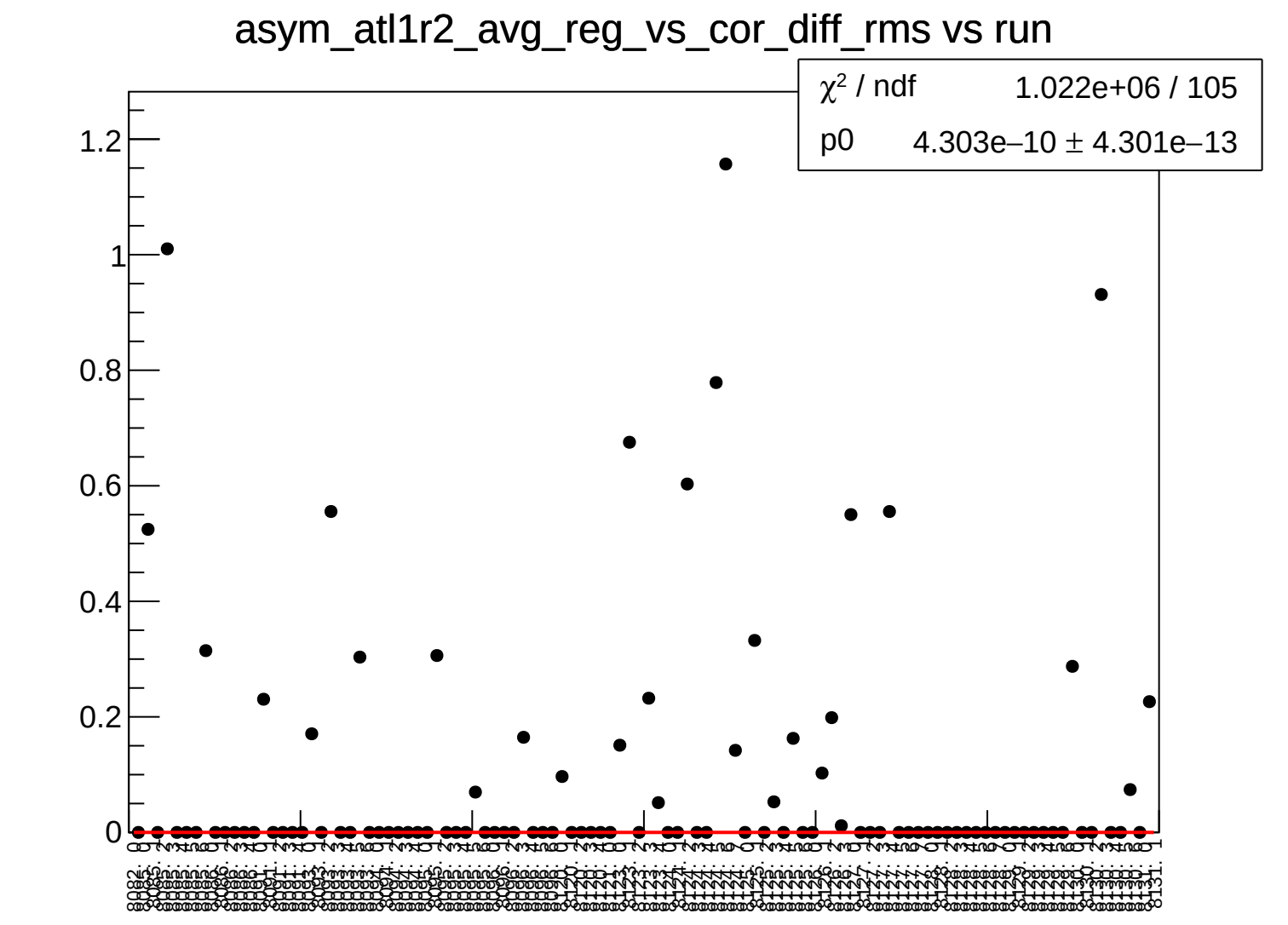

asym_atl1r2_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.129e+04 / 105
p0 5102 ± 3.606
7500
7000
6500
6000
5500
5000
4500

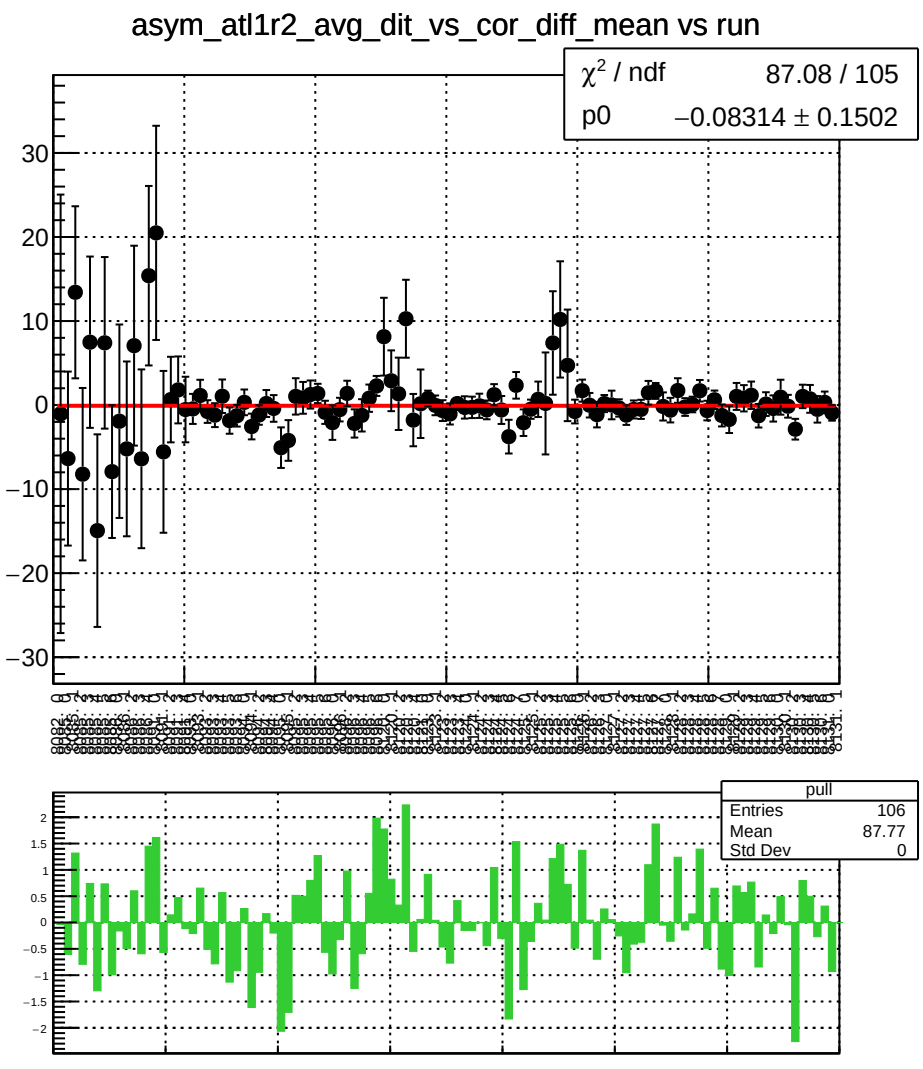

asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 87.45 / 105
p0 −1.003e+04 ± 5486
200
100
0
−100
−200
pull
Entries 106
Mean −288.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

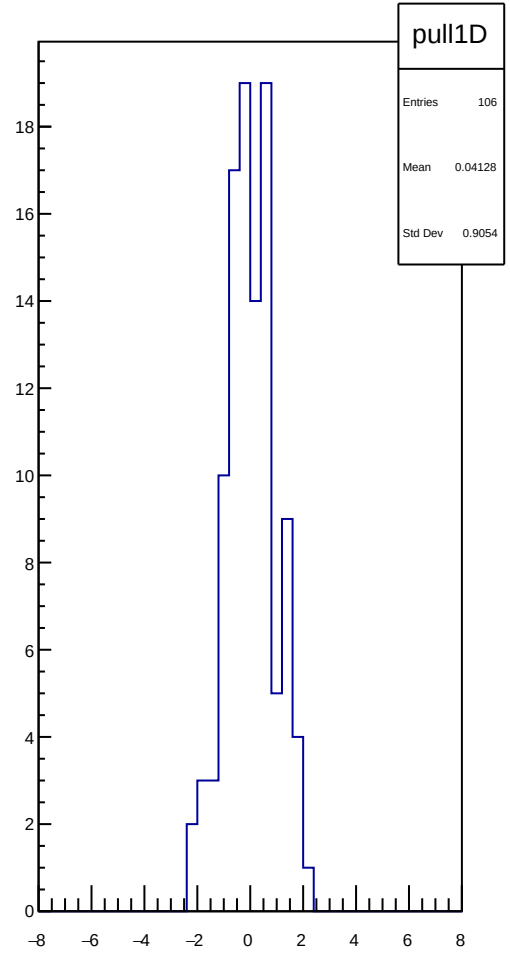

pull1D
Entries 106
Mean −0.003641
Std Dev 0.9083
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

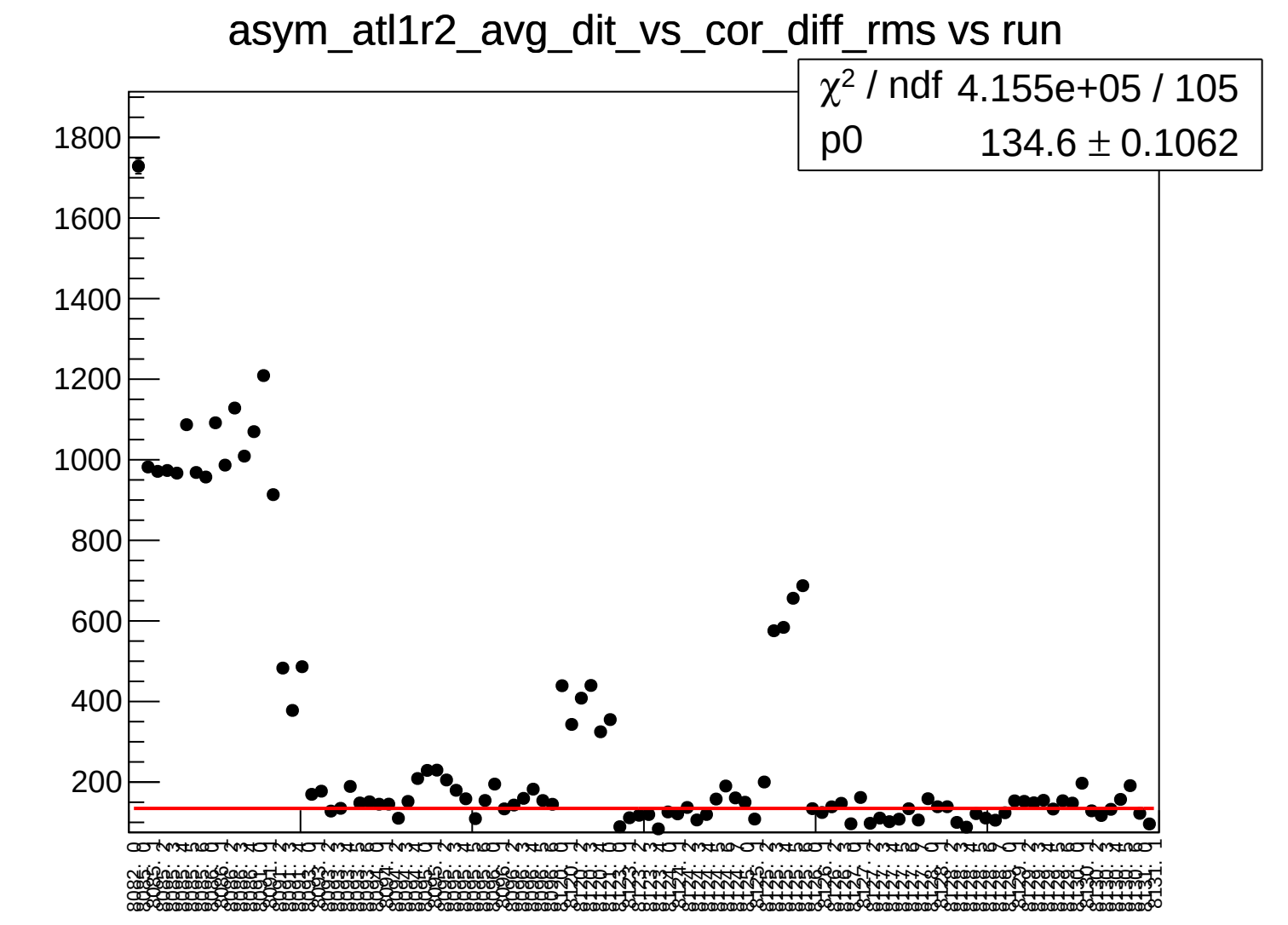

asym_atl1r2_avg_rms vs run
χ² / ndf 3.144e+04 / 105
p0 5475 ± 3.879
8500
8000
7500
7000
6500
6000
5500
5000
4500

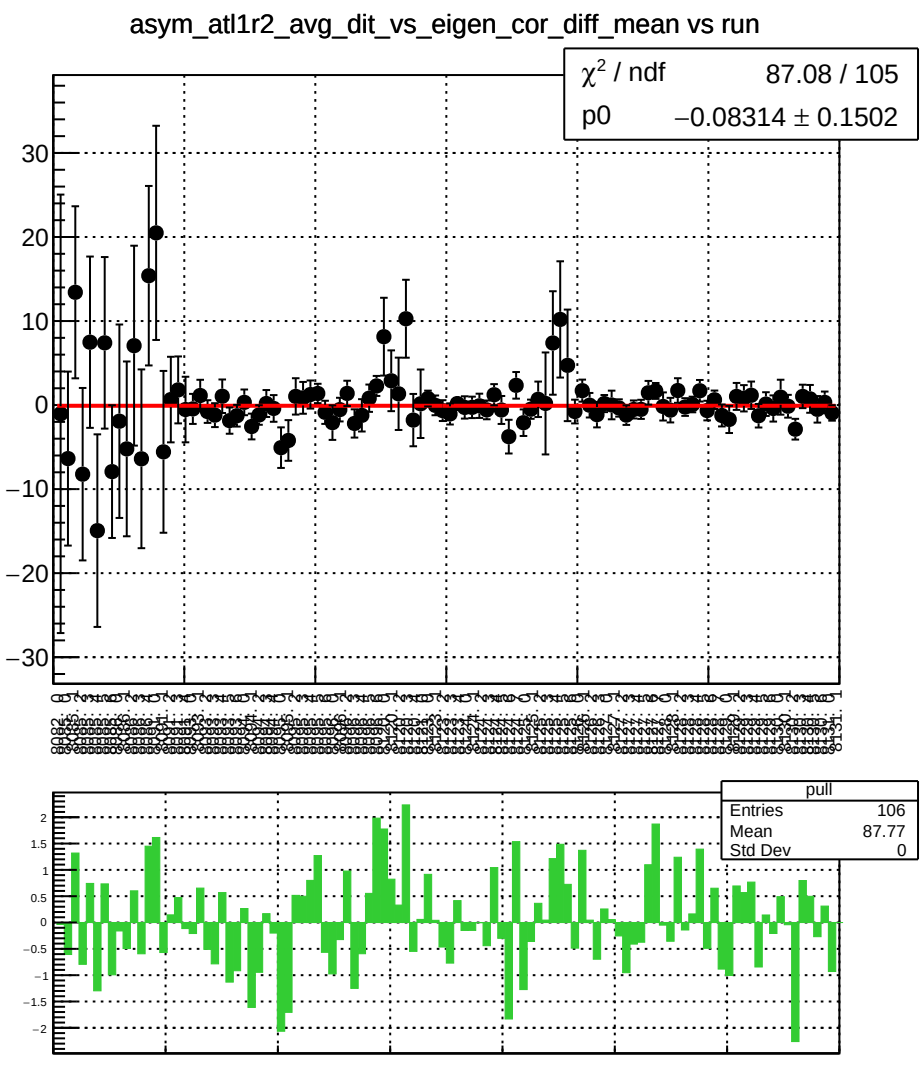

asym_atl1r2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 74.72 / 105
p0 −9.891e−14 ± 6.083e−13
0.03
0.02
0.01
0
−0.01
pull
Entries 106
Mean 30.07
Std Dev 17.98
2
1
0
−1
−2
pull1D
Entries 106
Mean 0.06465
Std Dev 0.8371
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

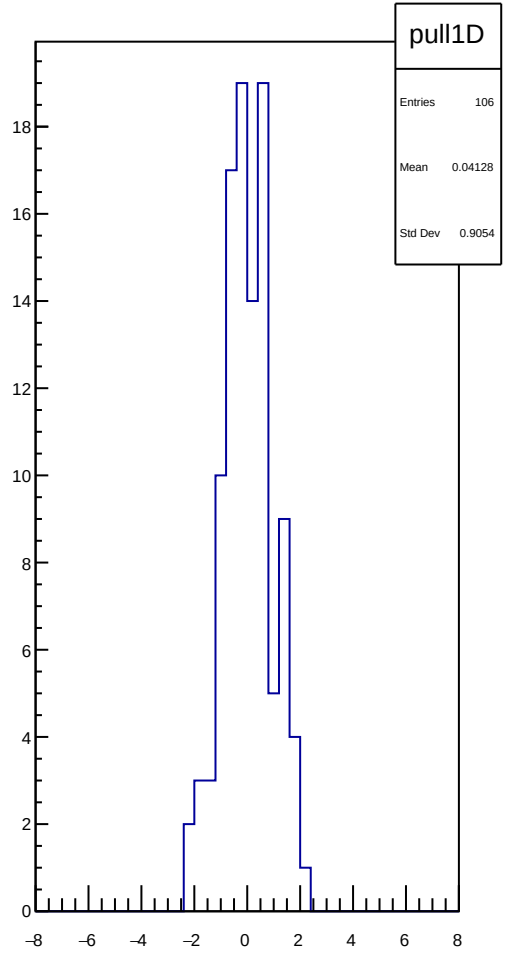

asym_atl1r2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.022e+06 / 105
p0 4.303e−10 ± 4.301e−13
1.2
1
0.8
0.6
0.4
0.2
0

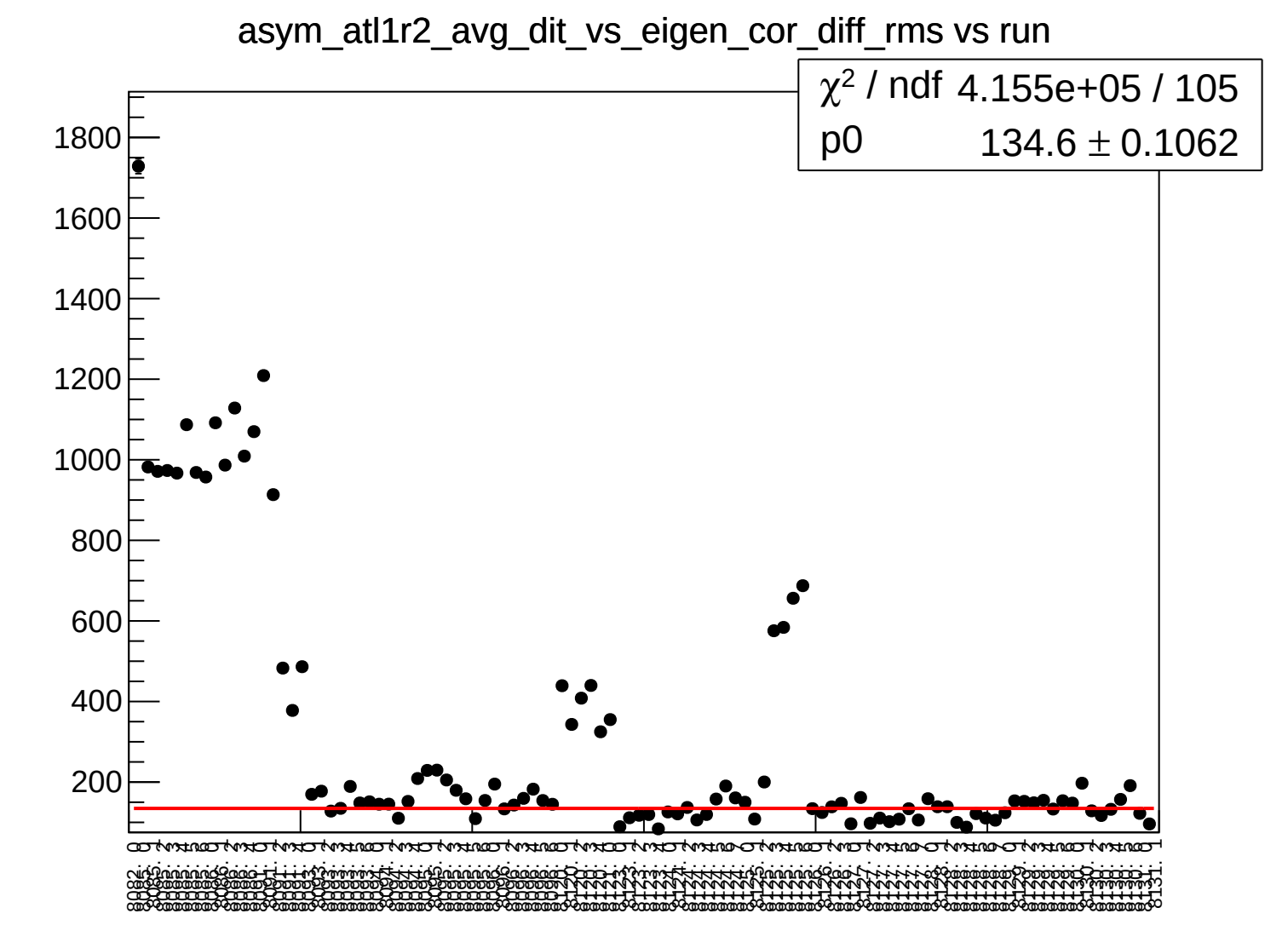

asym_atl1r2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 87.08 / 105
p0 −0.08314 ± 0.1502
pull
Entries 106
Mean 87.77
Std Dev 0

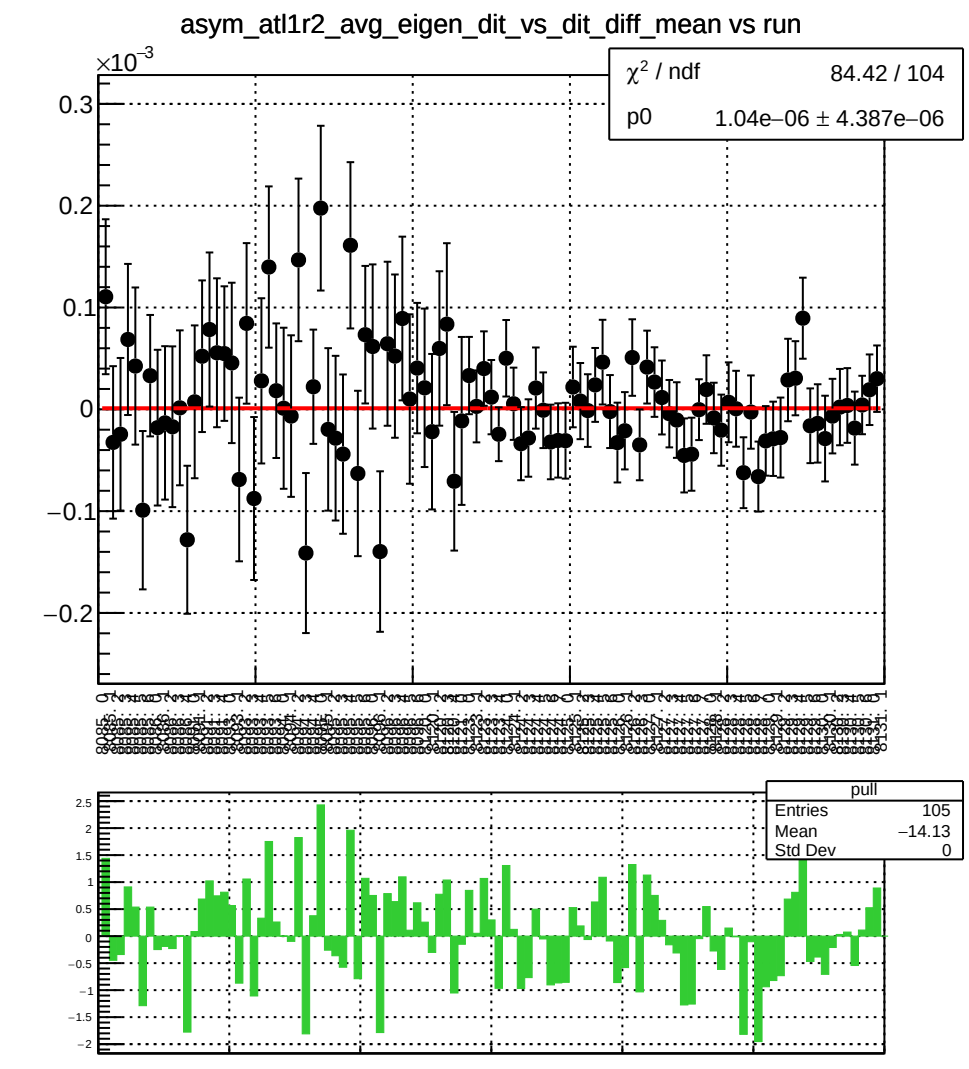

pull1D
Entries 106
Mean 0.04128
Std Dev 0.9054

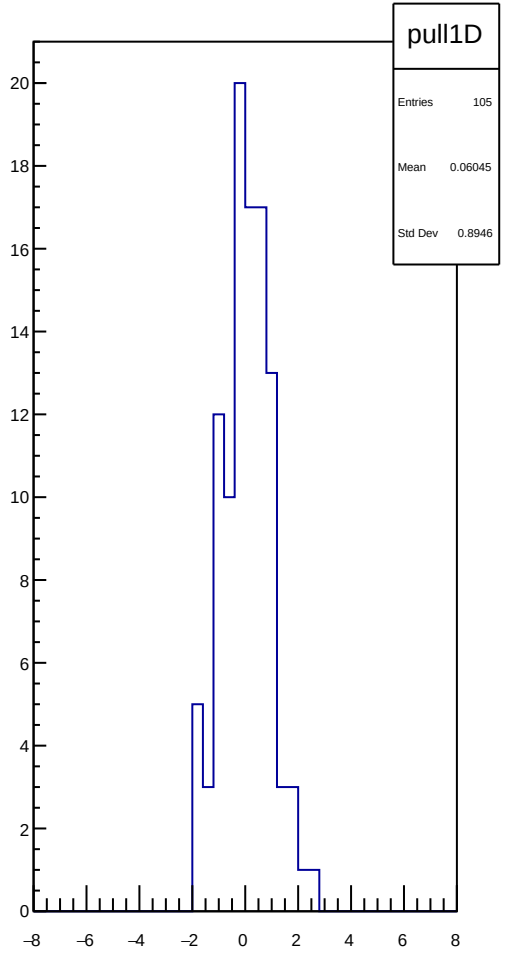

asym_atl1r2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.155e+05 / 105
p0 134.6 ± 0.1062
1800
1600
1400
1200
1000
800
600
400
200

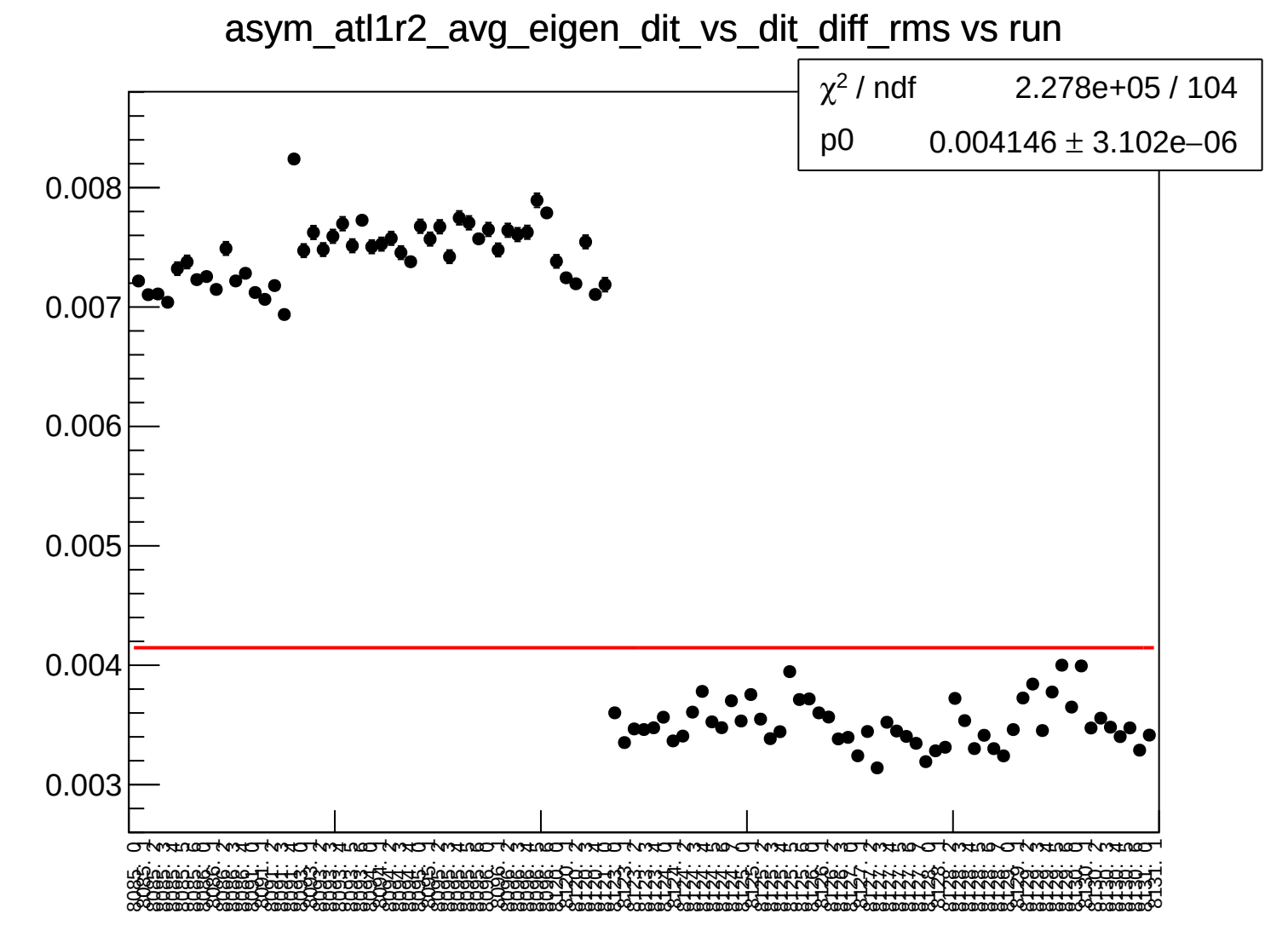

asym_atl1r2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.08 / 105
p0 −0.08314 ± 0.1502
pull
Entries 106
Mean 87.77
Std Dev 0

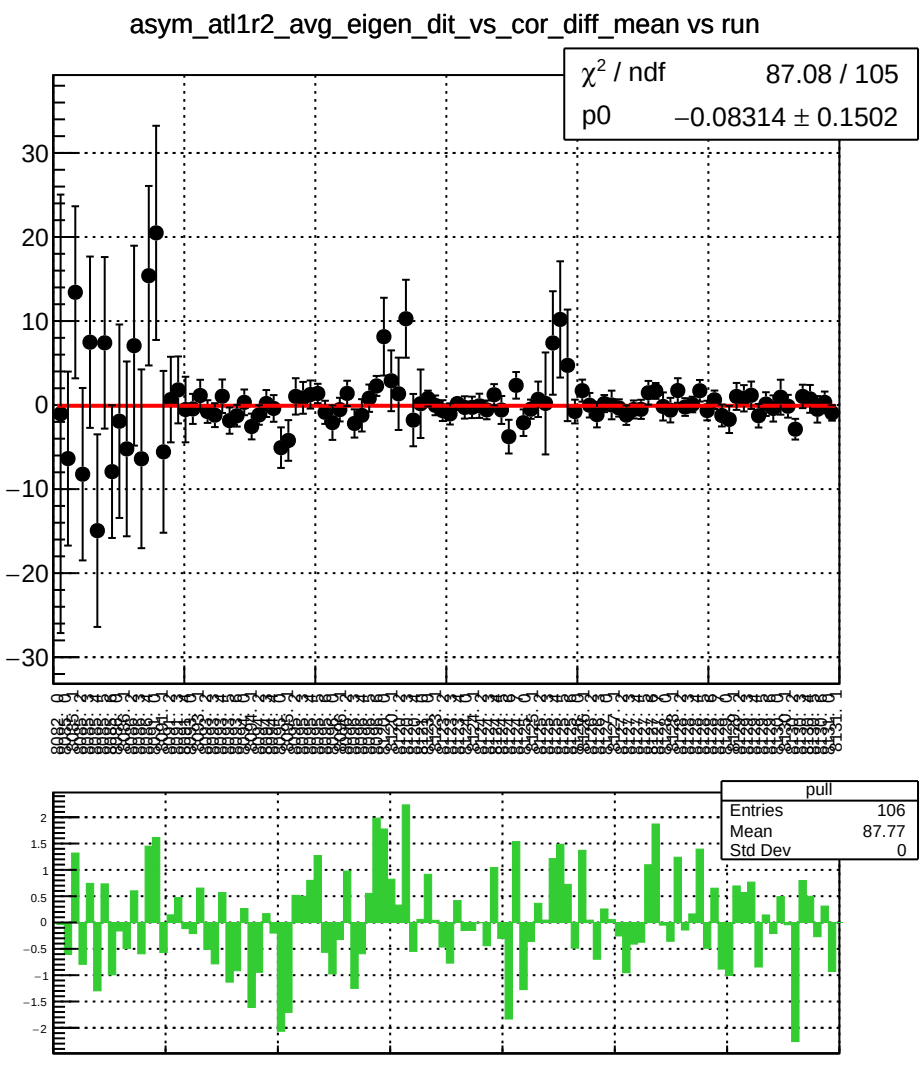

pull1D
Entries 106
Mean 0.04128
Std Dev 0.9054

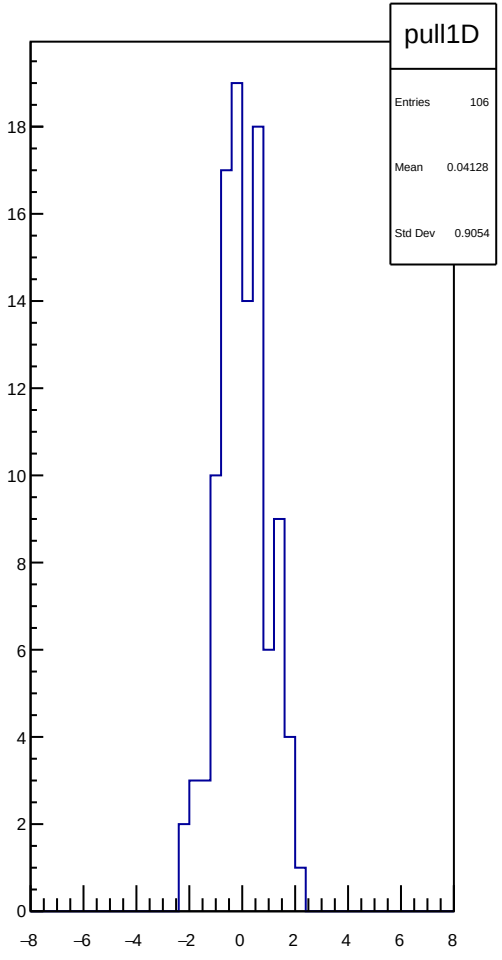

asym_atl1r2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.155e+05 / 105
p0 134.6 ± 0.1062
1800
1600
1400
1200
1000
800
600
400
200

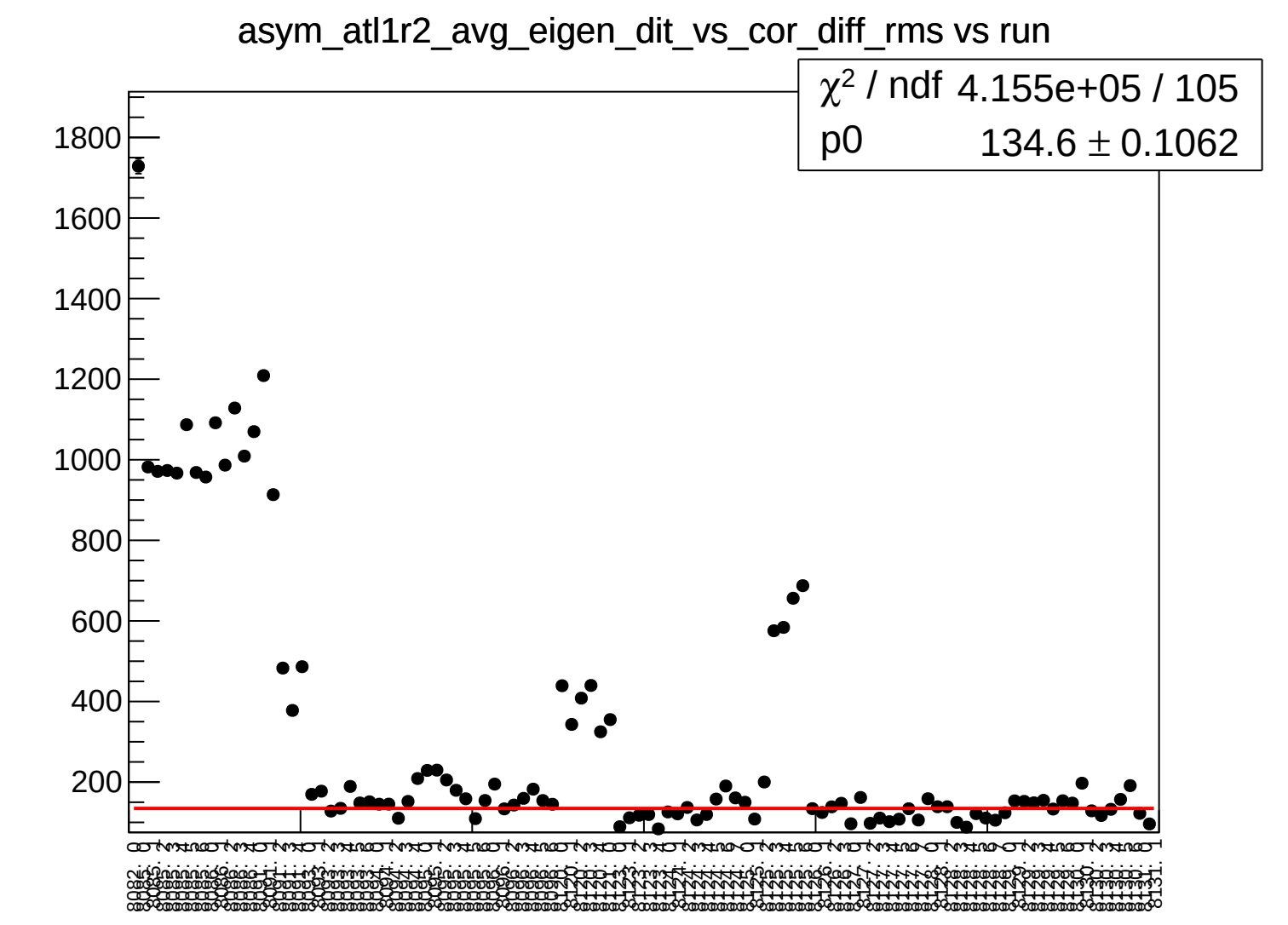

asym_atl1r2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84.42 / 104
p0 1.04e−06 ± 4.387e−06
0.3
0.2
0.1
0
−0.1
−0.2
pull
Entries 105
Mean −14.13
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

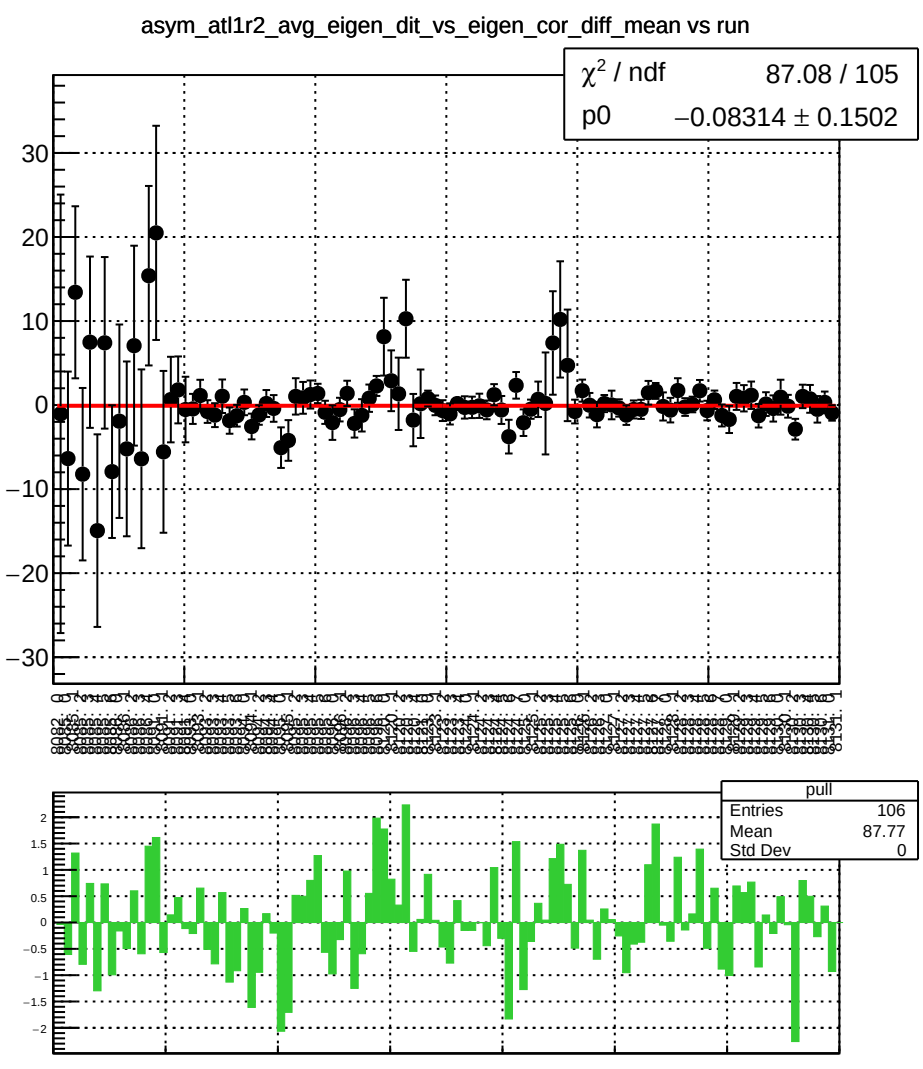

pull1D
Entries 105
Mean 0.06045
Std Dev 0.8946
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

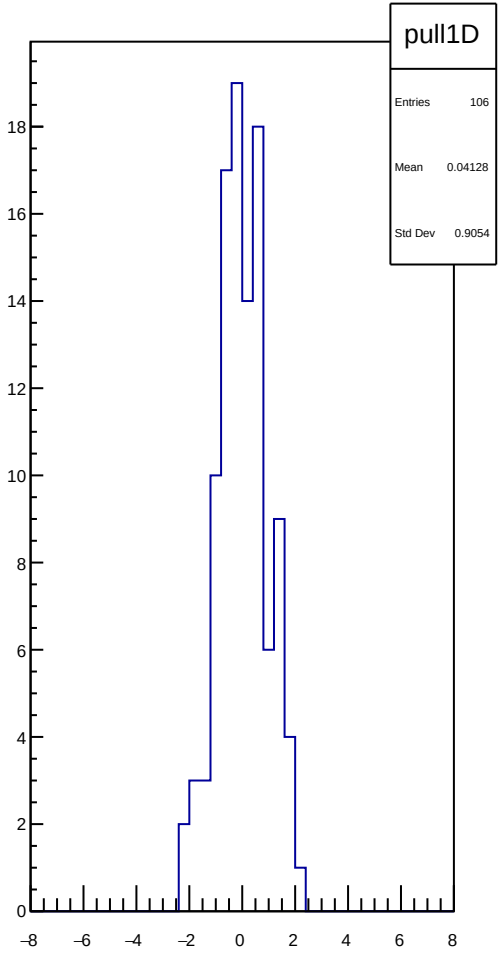

asym_atl1r2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.278e+05 / 104
p0 0.004146 ± 3.102e−06
0.008
0.007
0.006
0.005
0.004
0.003

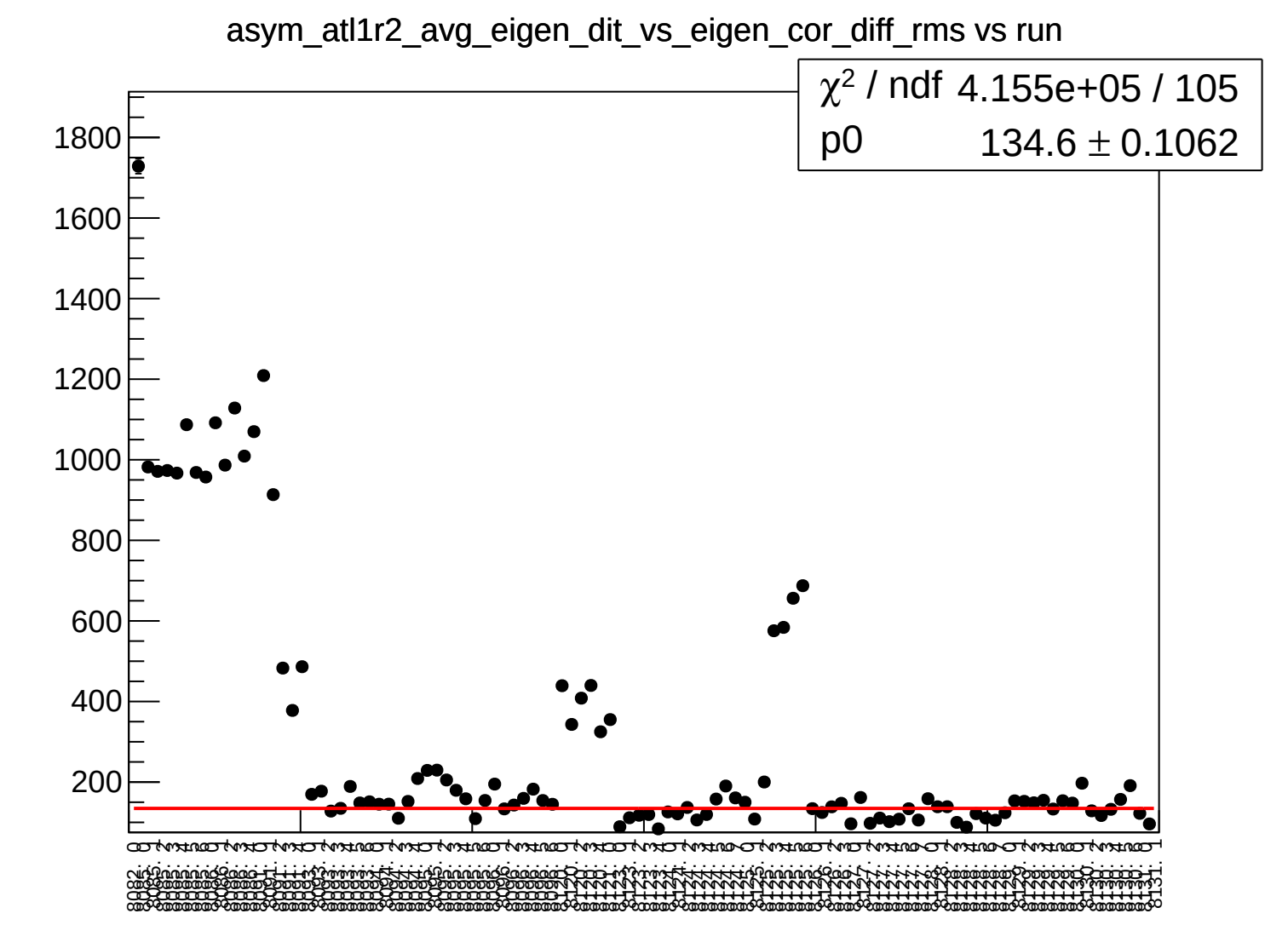

asym_atl1r2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 87.08 / 105
p0 −0.08314 ± 0.1502
pull
Entries 106
Mean 87.77
Std Dev 0

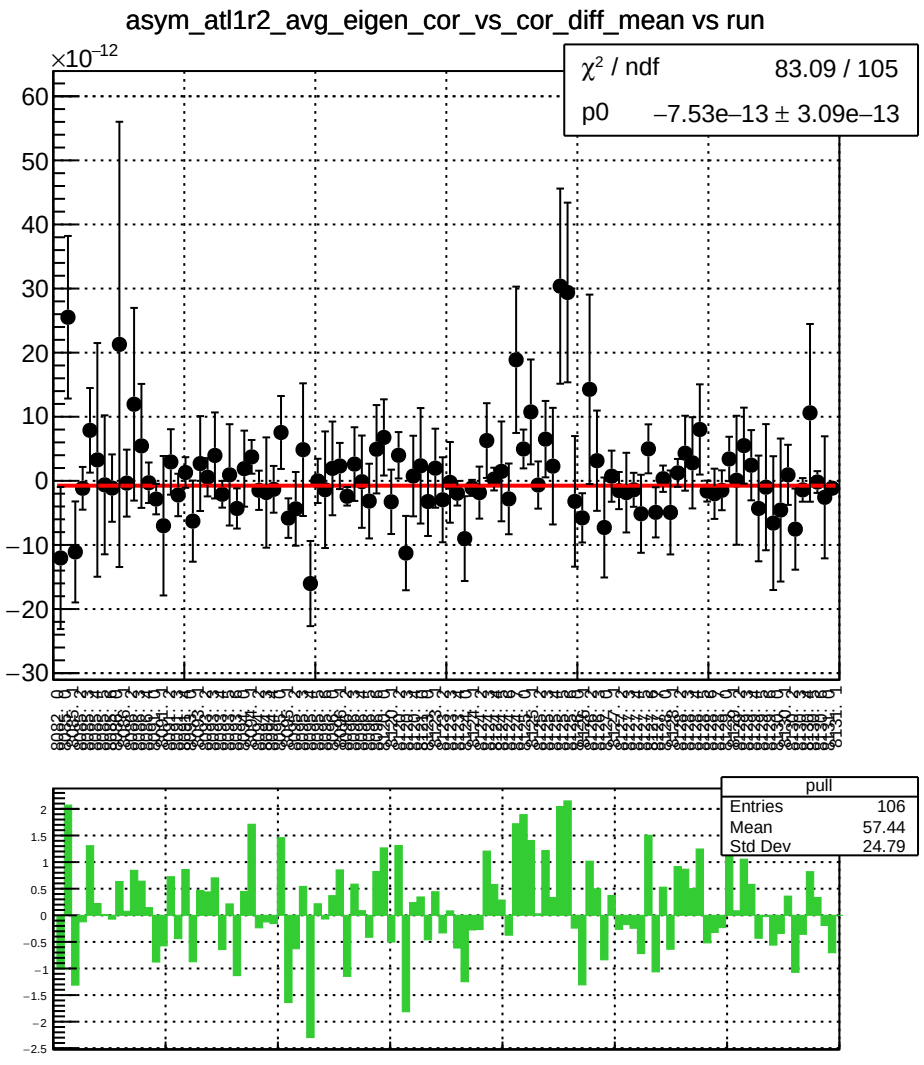

pull1D
Entries 106
Mean 0.04128
Std Dev 0.9054

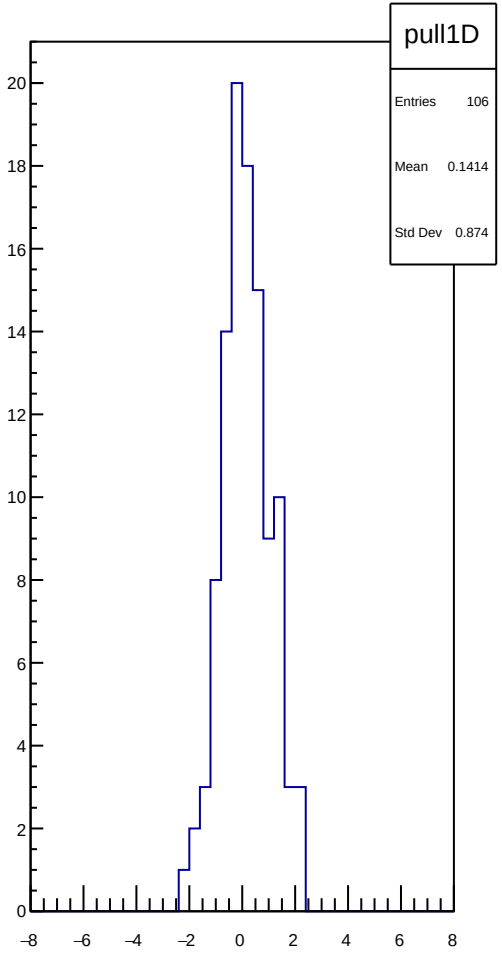

asym_atl1r2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.155e+05 / 105
p0 134.6 ± 0.1062
1800
1600
1400
1200
1000
800
600
400
200

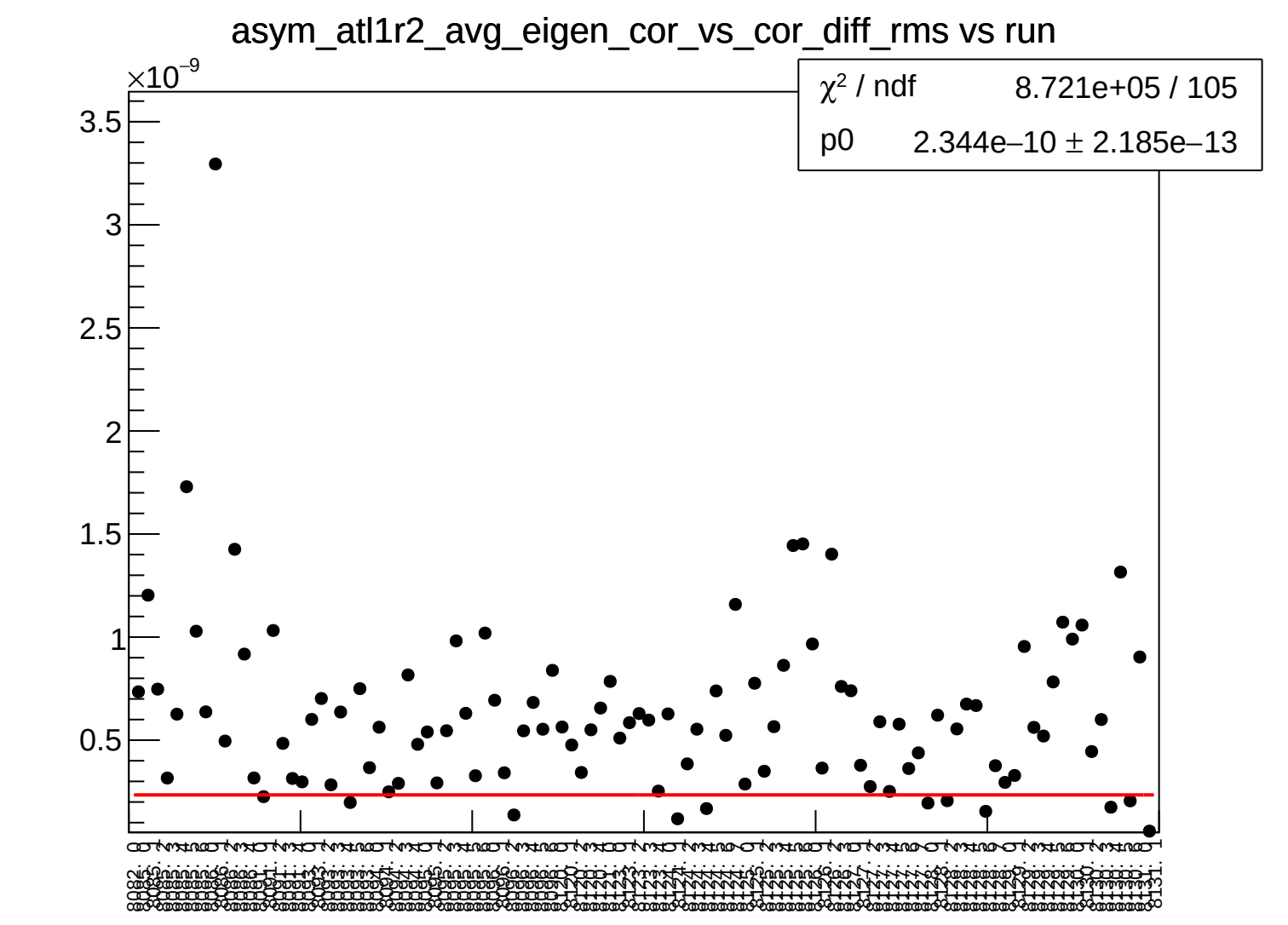

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 87.08 / 105
p0 −0.08314 ± 0.1502
pull
Entries 106
Mean 87.77
Std Dev 0

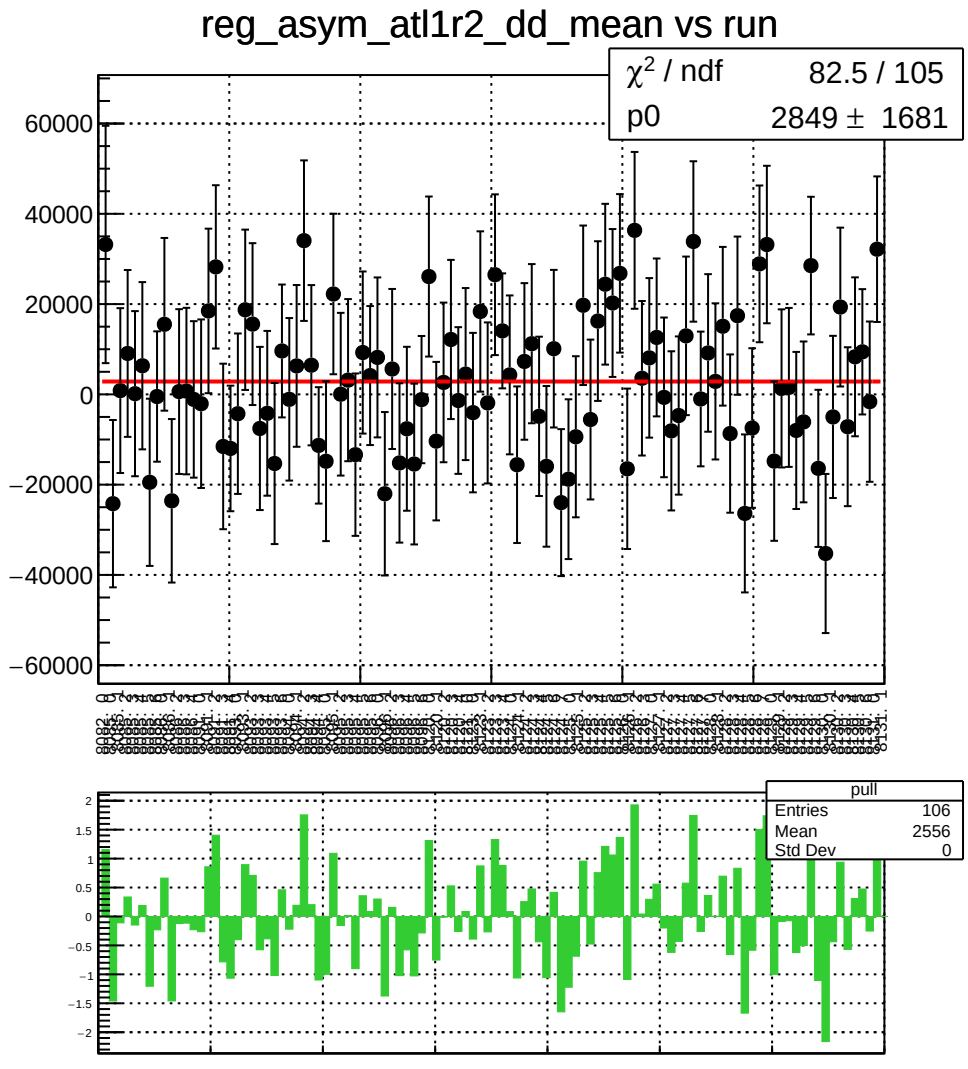

pull1D
Entries 106
Mean 0.04128
Std Dev 0.9054

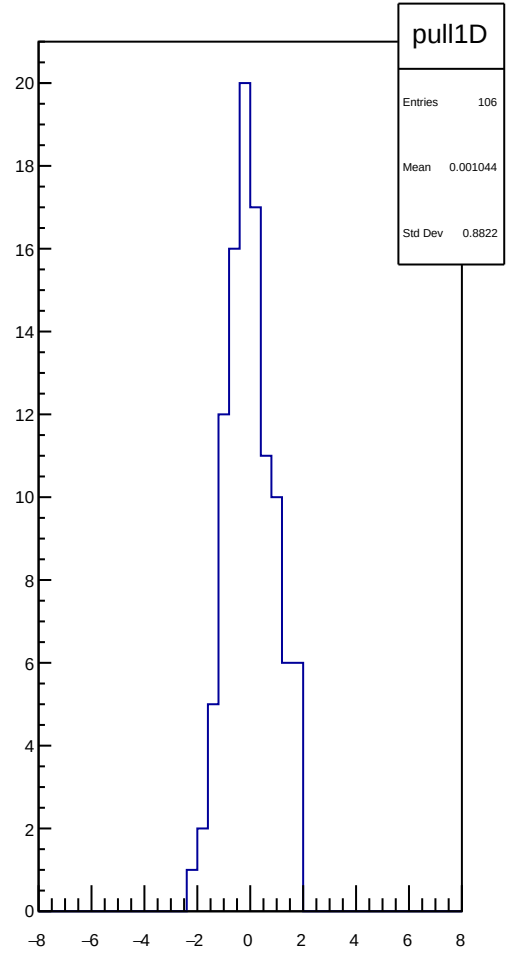

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.155e+05 / 105
p0 134.6 ± 0.1062
1800
1600
1400
1200
1000
800
600
400
200

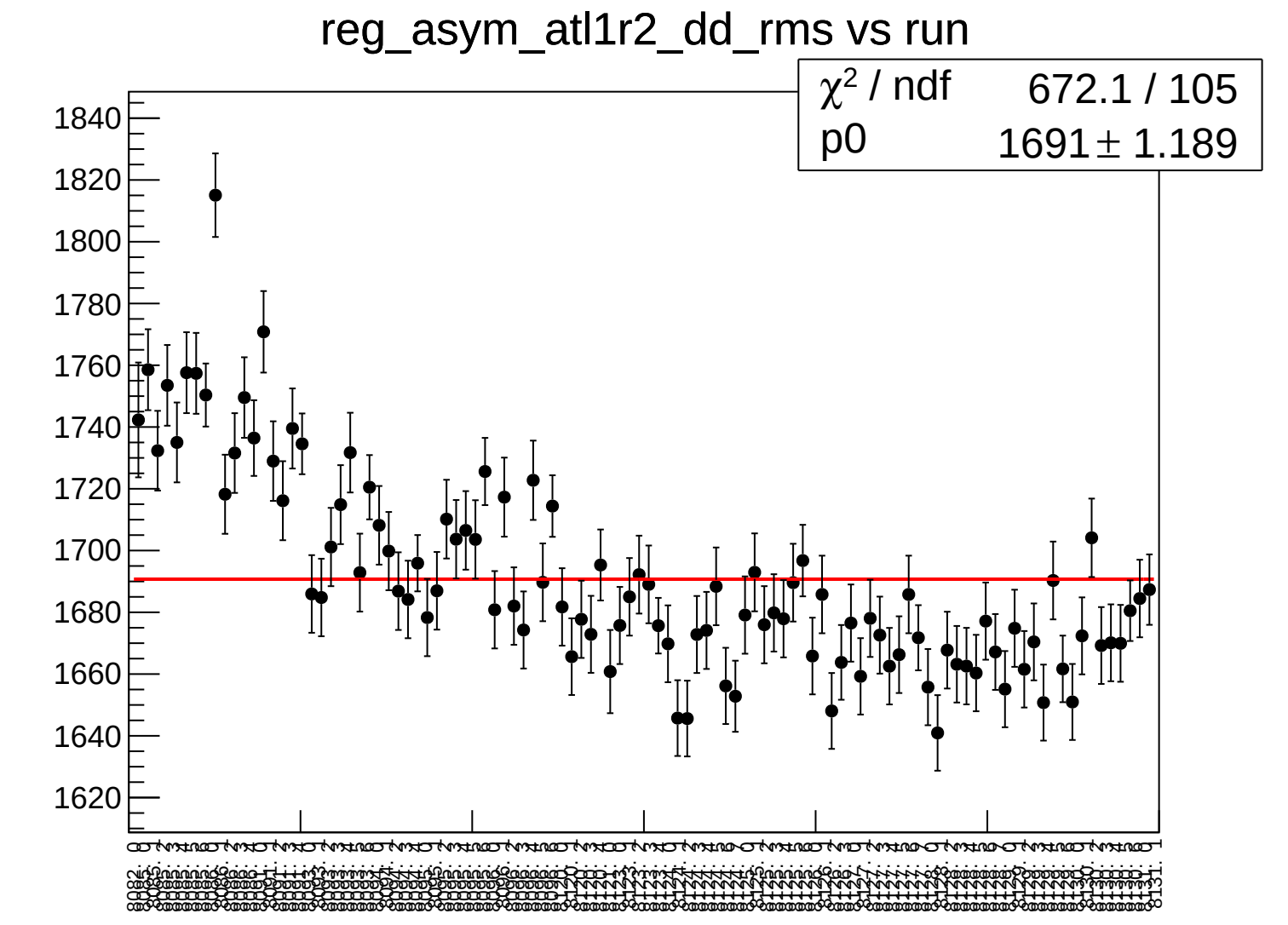

asym_atl1r2_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 83.09 / 105
p0 −7.53e−13 ± 3.09e−13
pull
Entries 106
Mean 57.44
Std Dev 24.79

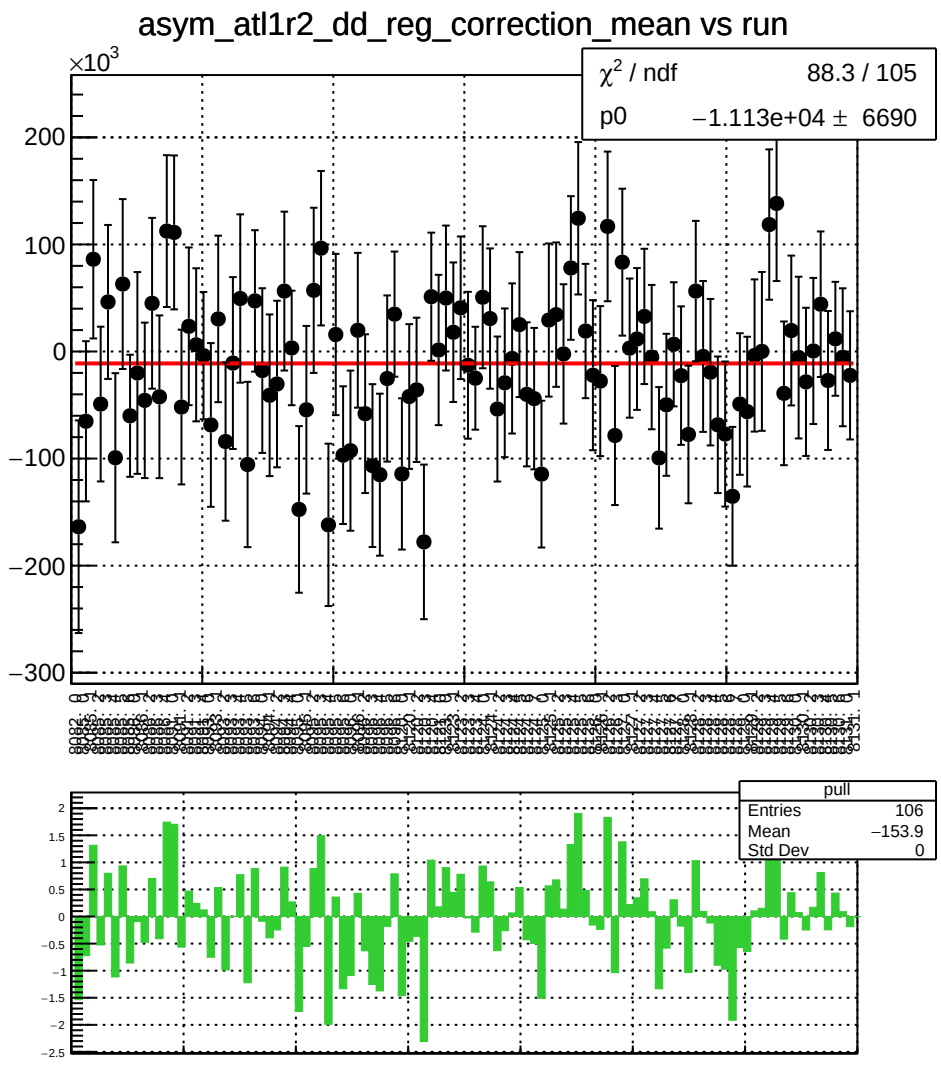

pull1D
Entries 106
Mean 0.1414
Std Dev 0.874

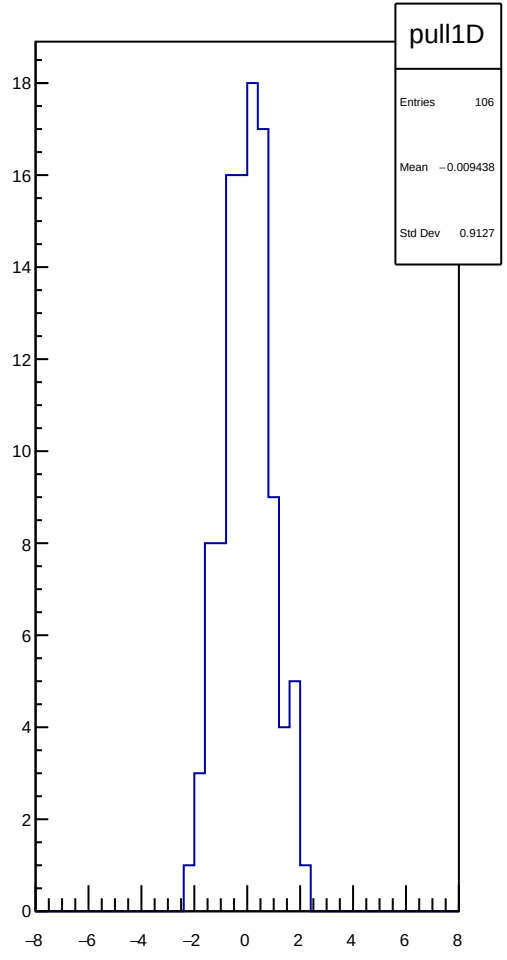

asym_atl1r2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.721e+05 / 105
p0 2.344e−10 ± 2.185e−13
3.5
3
2.5
2
1.5
1
0.5

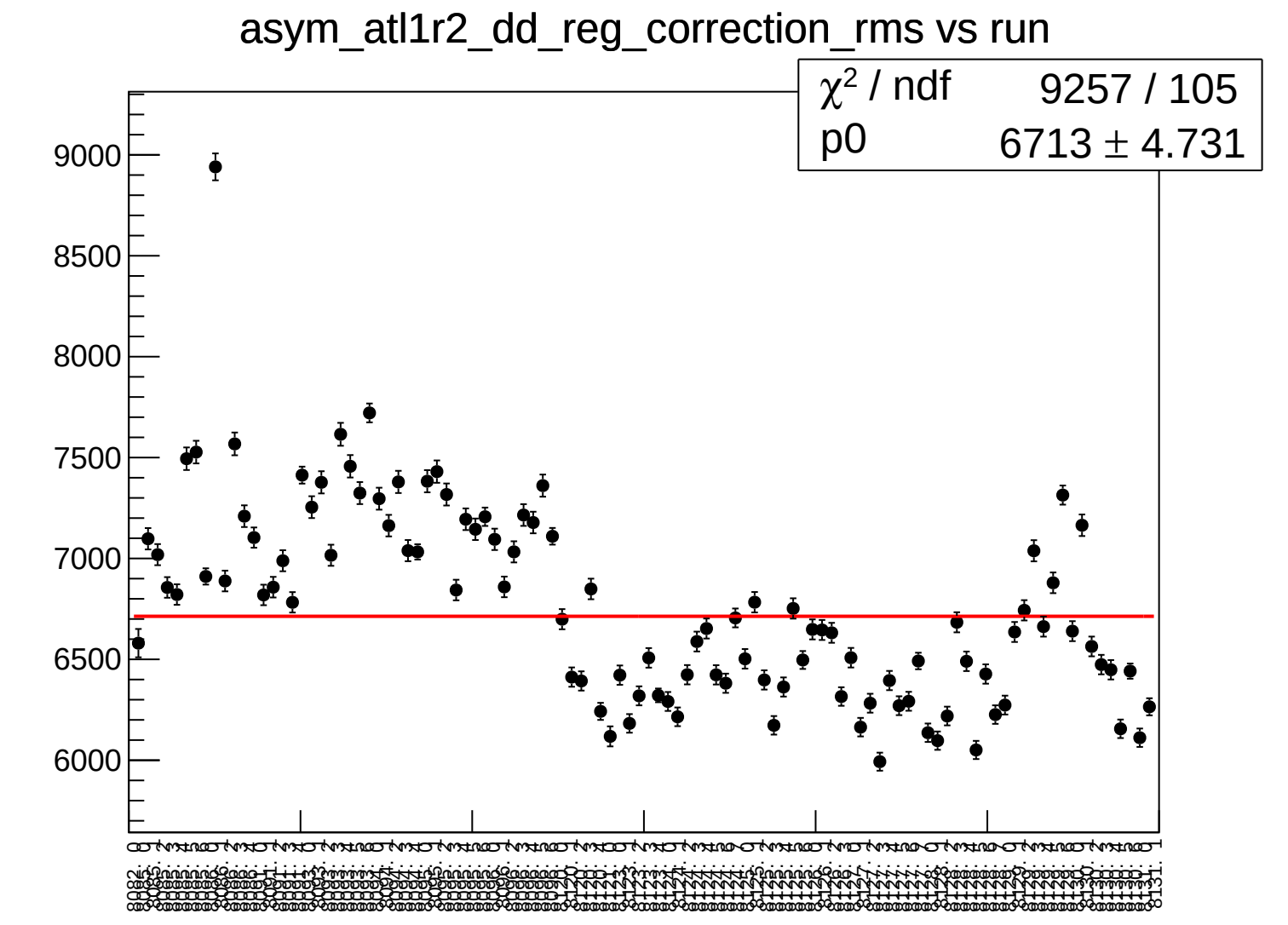

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 82.5 / 105
p0 2849 ± 1681
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean 2556
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

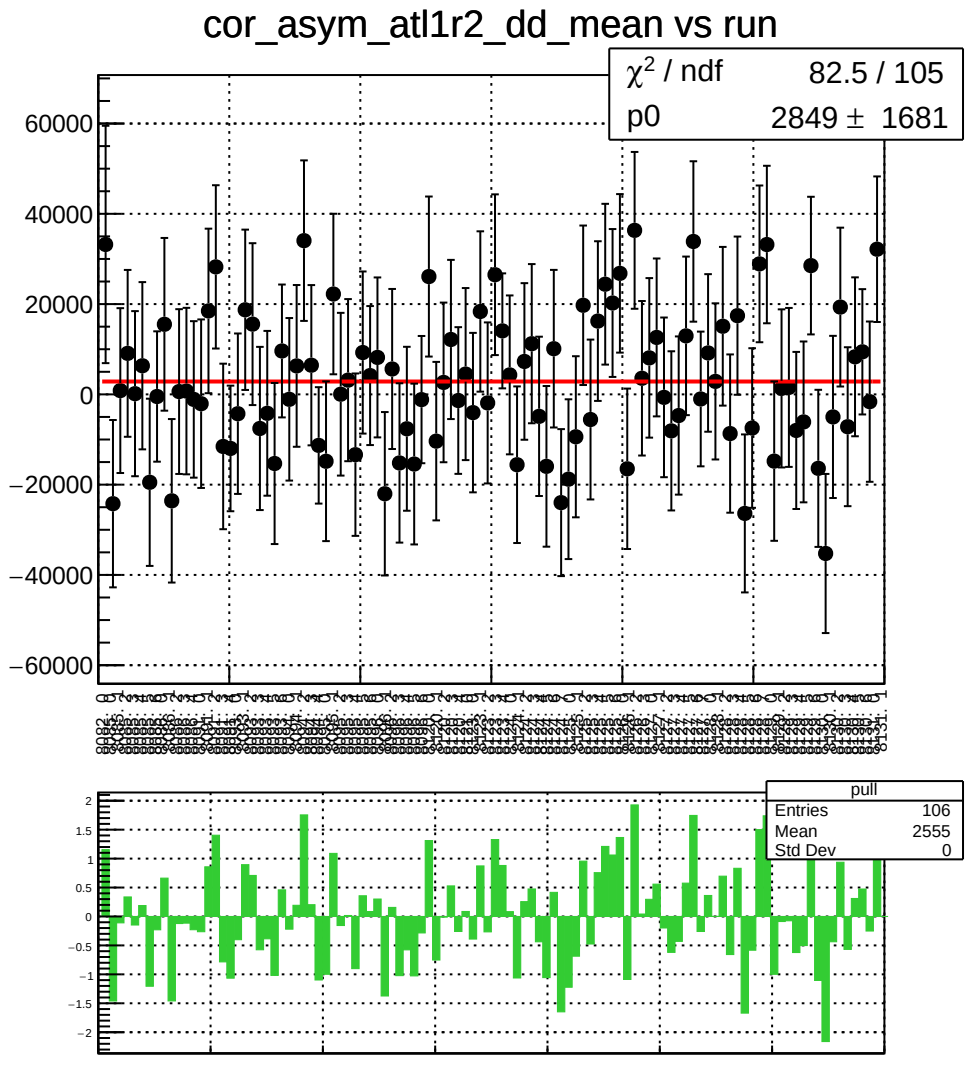

pull1D
Entries 106
Mean 0.001044
Std Dev 0.8822
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

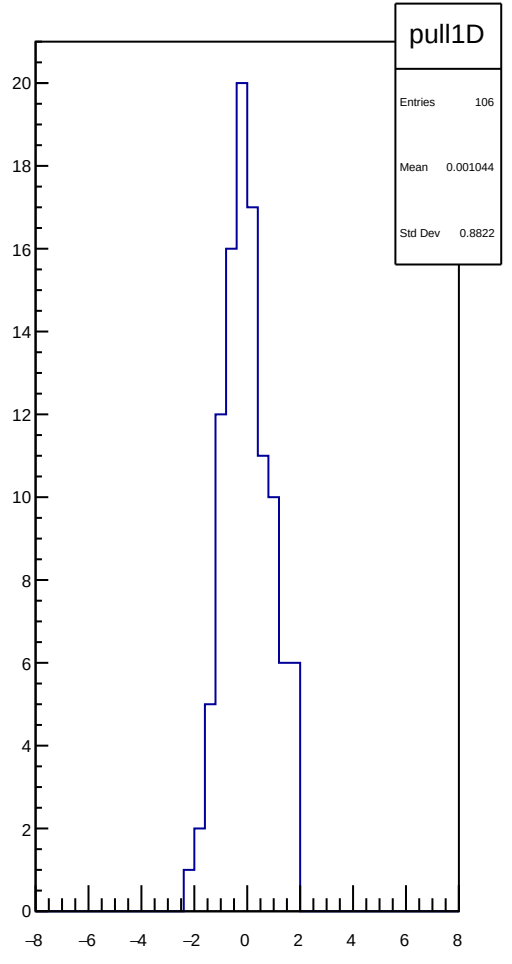

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 672.1 / 105
p0 1691 ± 1.189
1840
1820
1800
1780
1760
1740
1720
1700
1680
1660
1640
1620

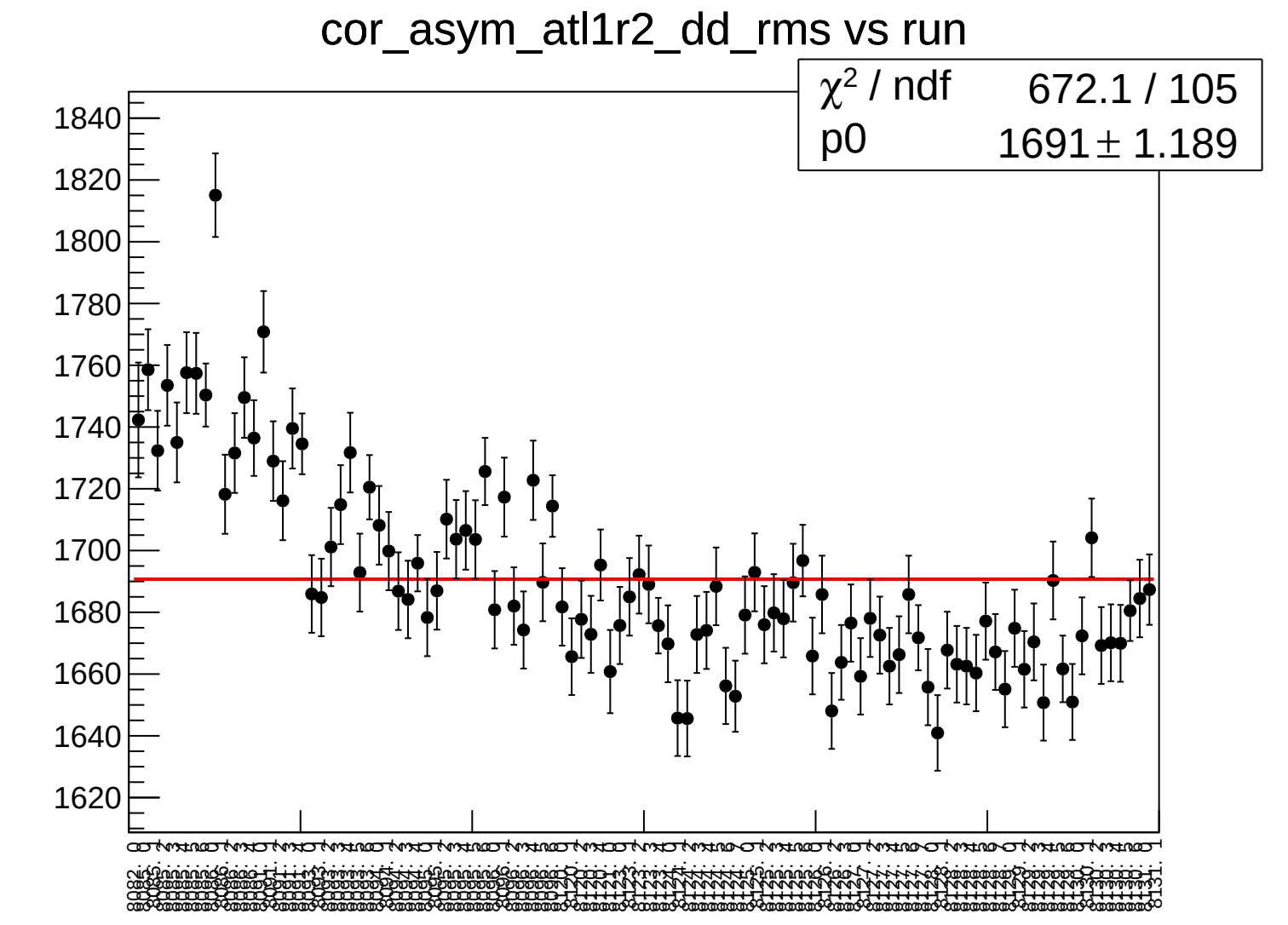

asym_atl1r2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 88.3 / 105
p0 −1.113e+04 ± 6690
200
100
0
−100
−200
−300
pull
Entries 106
Mean −153.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

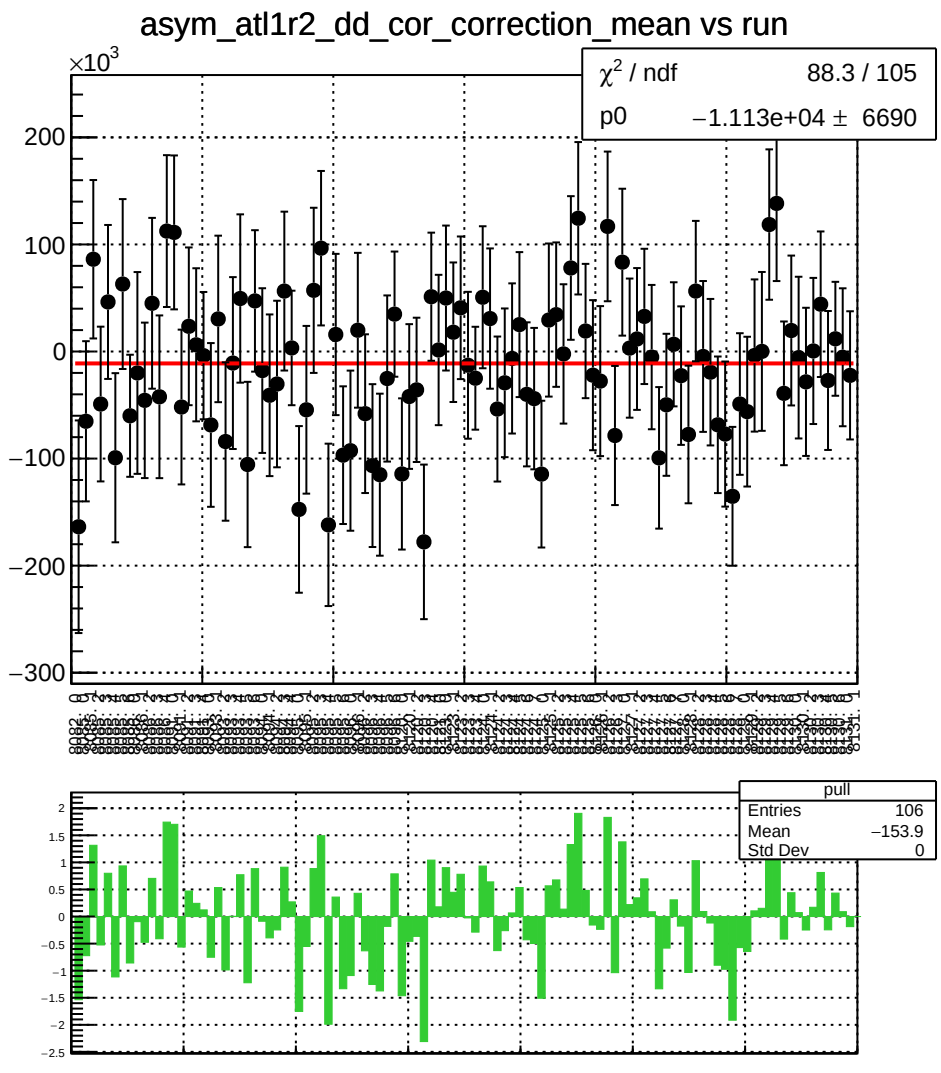

pull1D
Entries 106
Mean −0.009438
Std Dev 0.9127
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

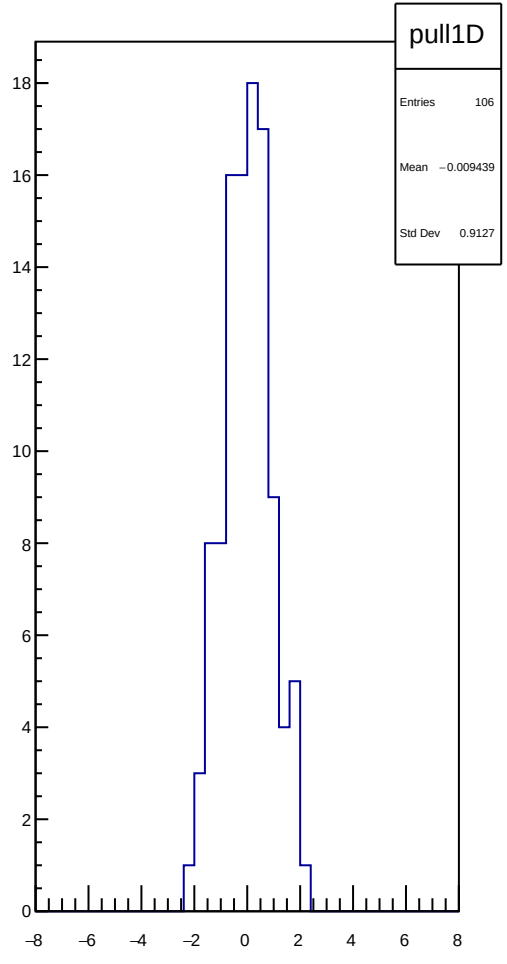

asym_atl1r2_dd_reg_correction_rms vs run
χ² / ndf 9257 / 105
p0 6713 ± 4.731
9000
8500
8000
7500
7000
6500
6000

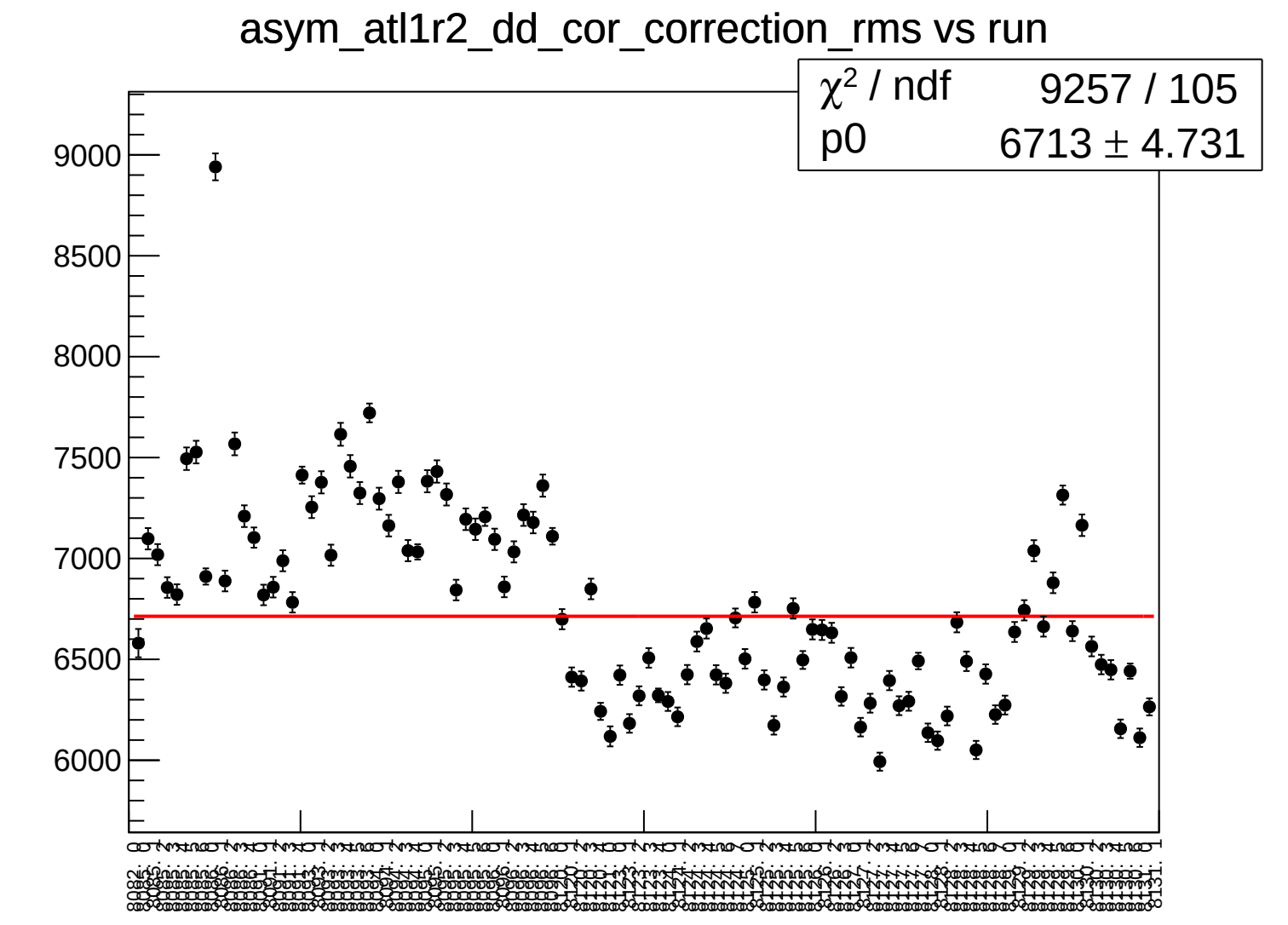

cor_asym_atl1r2_dd_mean vs run
χ² / ndf 82.5 / 105
p0 2849 ± 1681
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean 2555
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

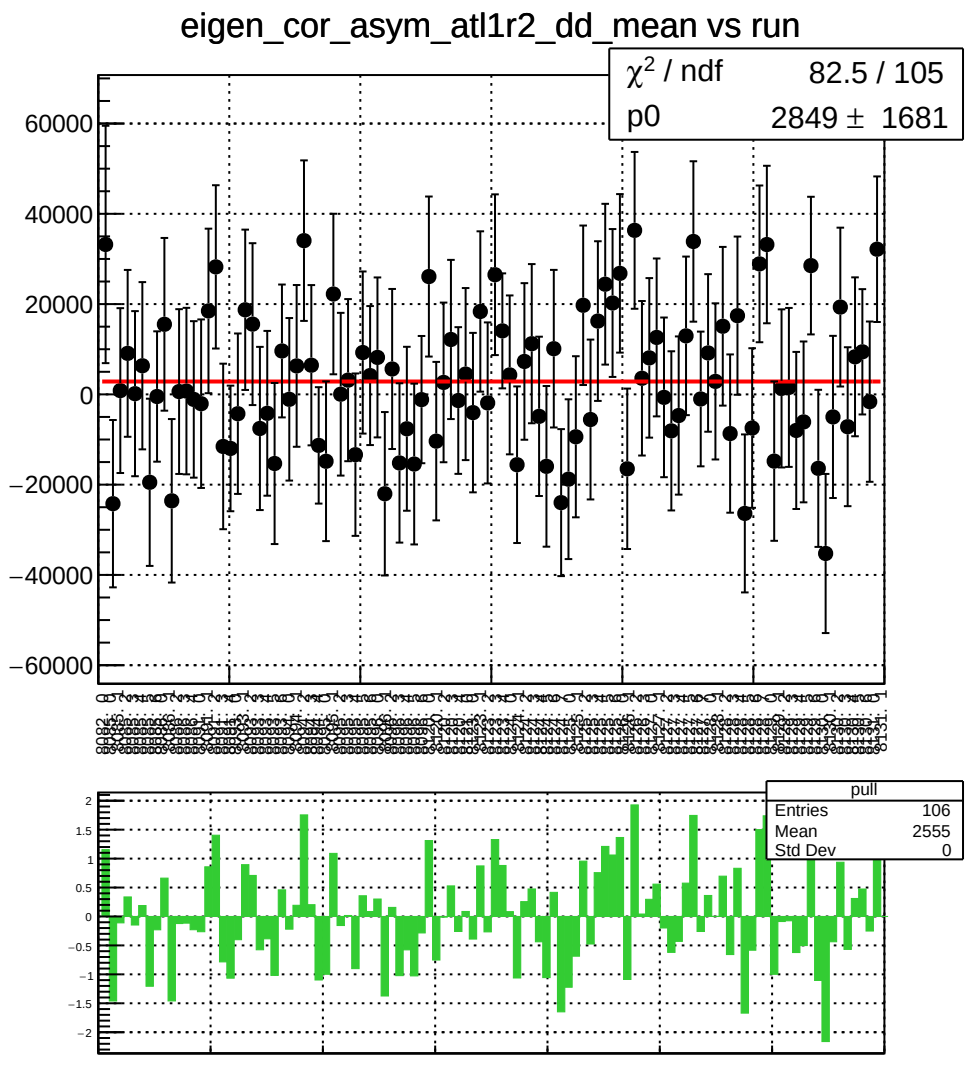

pull1D
Entries 106
Mean 0.001044
Std Dev 0.8822
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

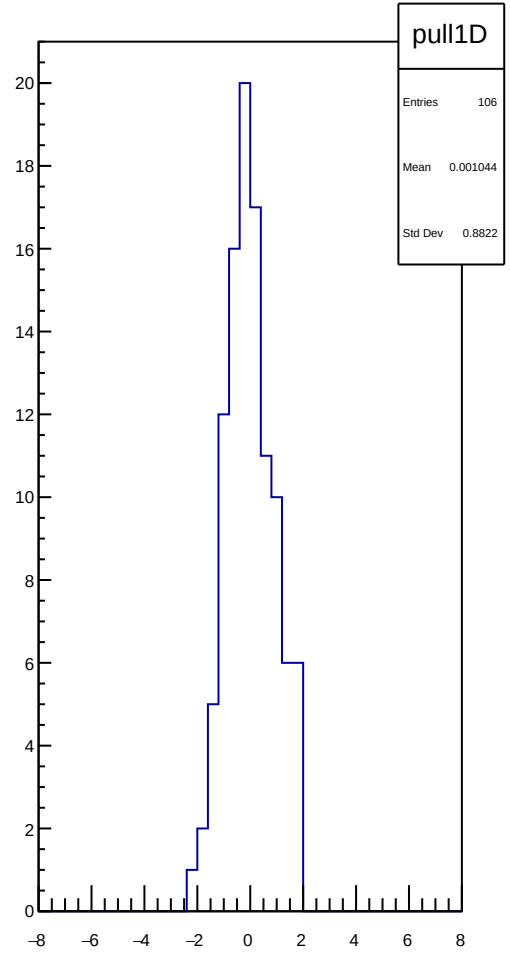

cor_asym_atl1r2_dd_rms vs run
χ² / ndf 672.1 / 105
p0 1691 ± 1.189
1840
1820
1800
1780
1760
1740
1720
1700
1680
1660
1640
1620

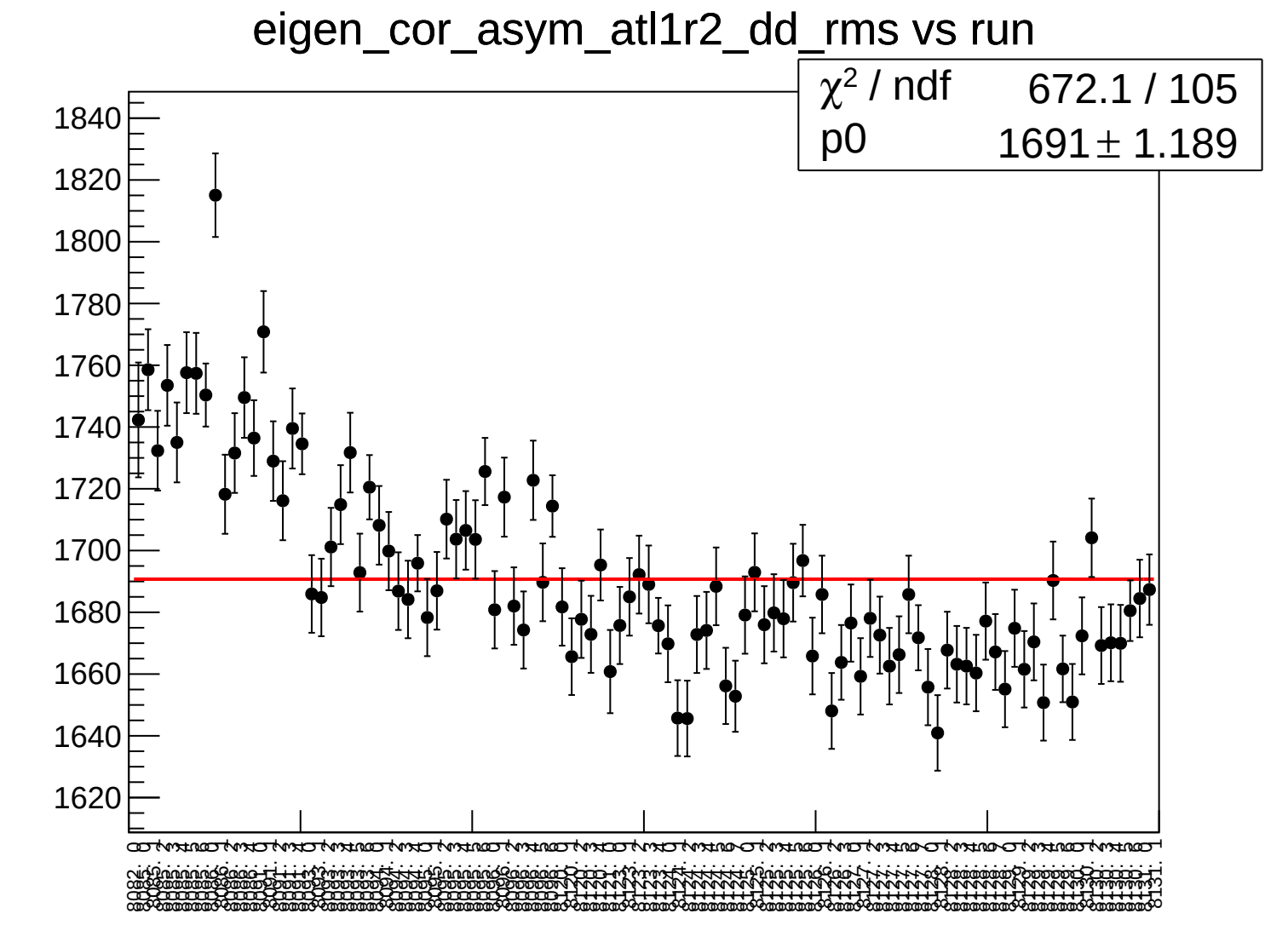

asym_atl1r2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 88.3 / 105
p0 −1.113e+04 ± 6690
200
100
0
−100
−200
−300
pull
Entries 106
Mean −153.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

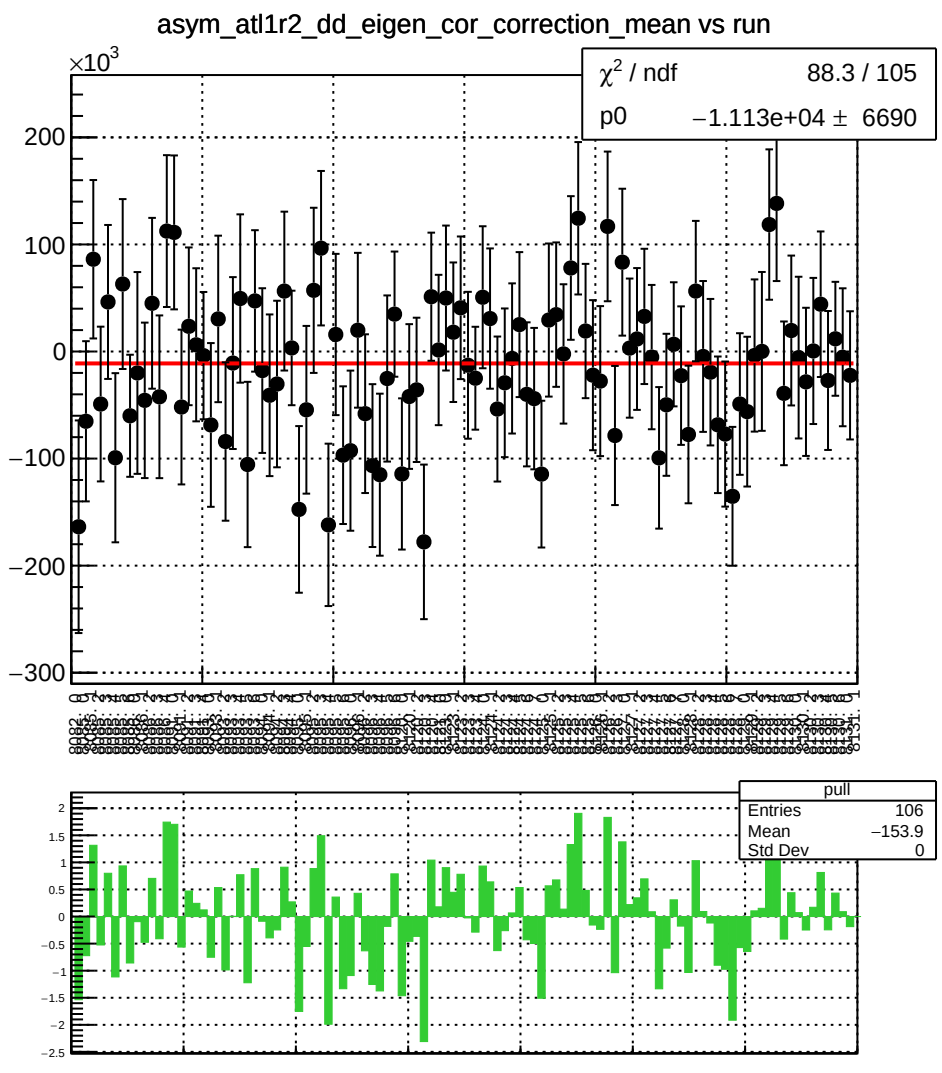

pull1D
Entries 106
Mean −0.009439
Std Dev 0.9127
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

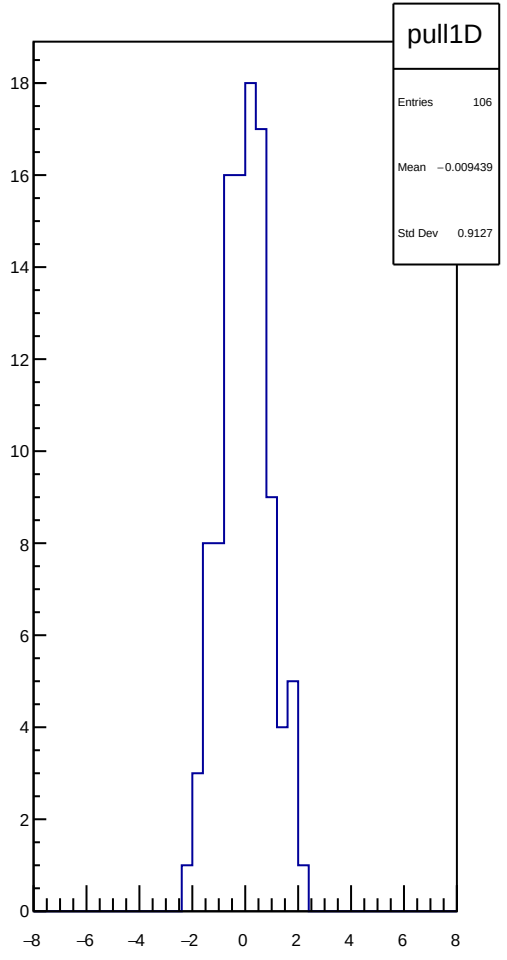

asym_atl1r2_dd_cor_correction_rms vs run
χ² / ndf 9257 / 105
p0 6713 ± 4.731
9000
8500
8000
7500
7000
6500
6000

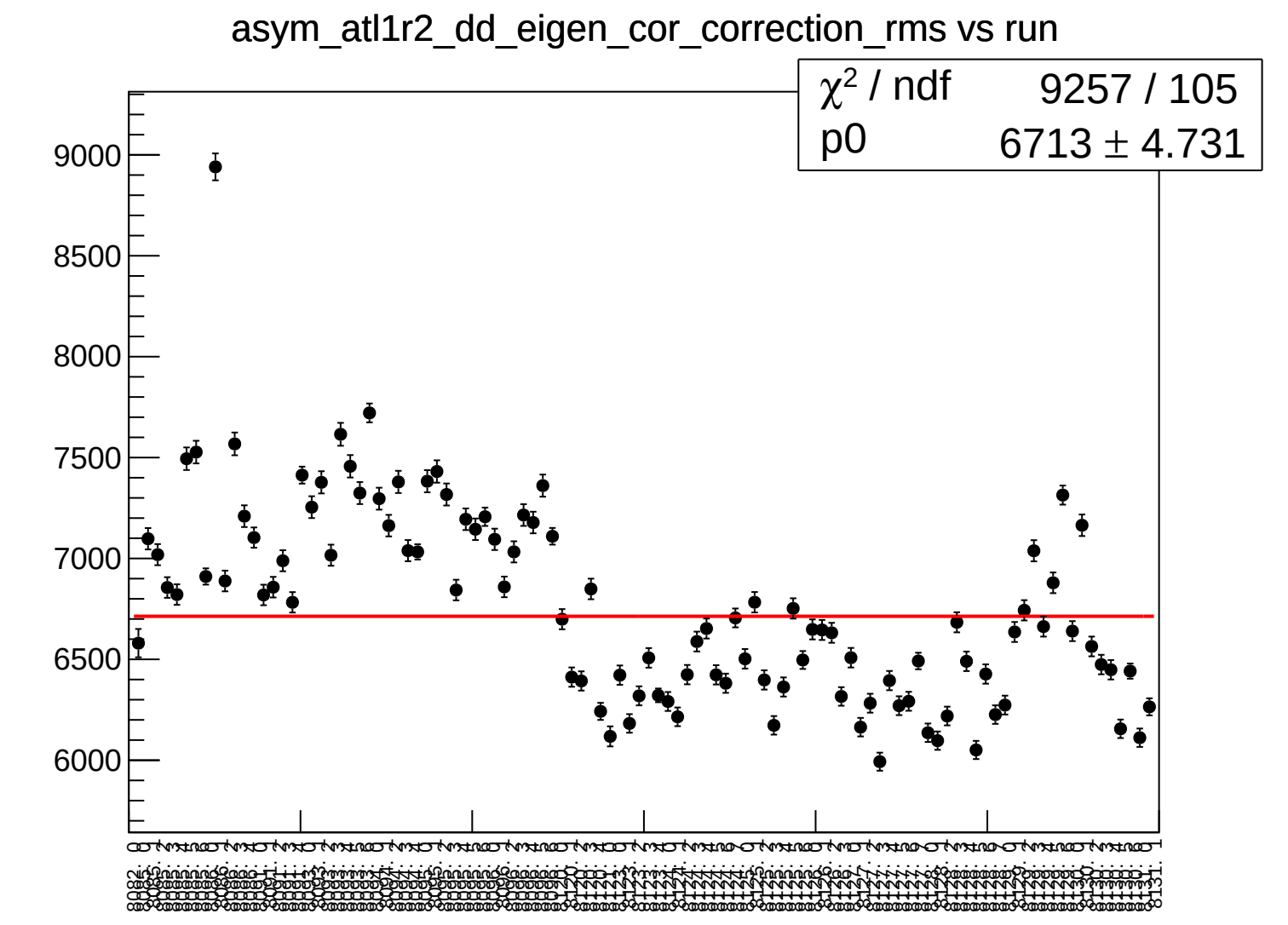

eigen_cor_asym_atl1r2_dd_mean vs run
χ² / ndf 82.5 / 105
p0 2849 ± 1681
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean 2555
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

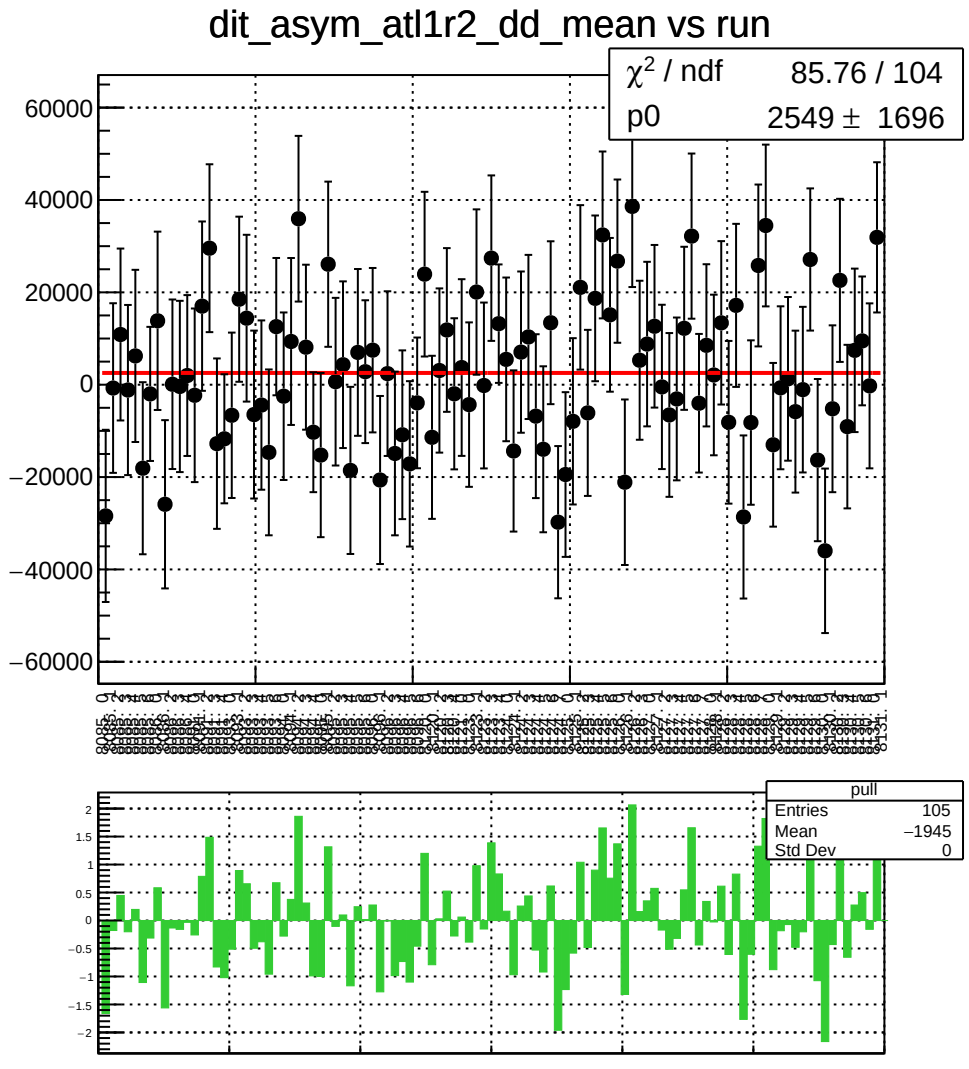

pull1D
Entries 106
Mean 0.001044
Std Dev 0.8822
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

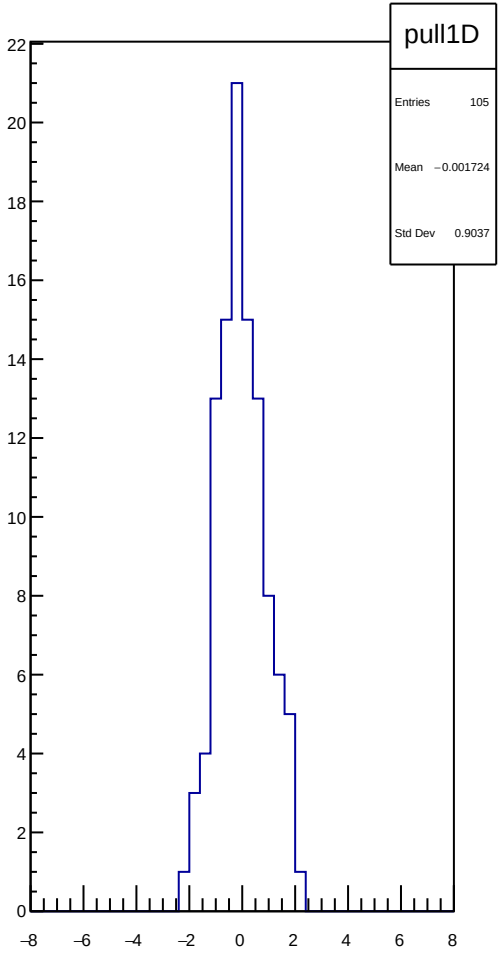

eigen_cor_asym_atl1r2_dd_rms vs run
χ² / ndf 672.1 / 105
p0 1691 ± 1.189
1840
1820
1800
1780
1760
1740
1720
1700
1680
1660
1640
1620

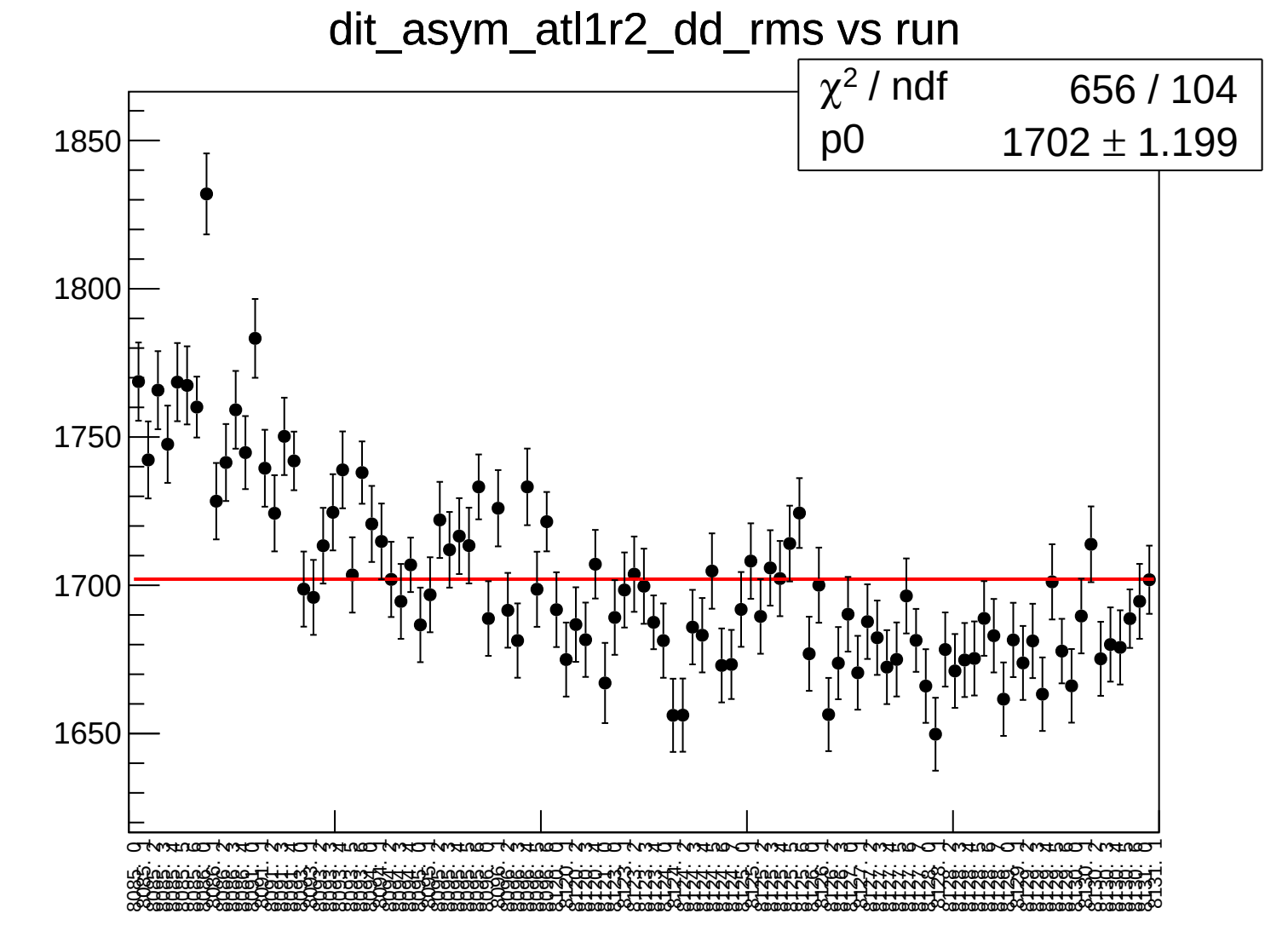

asym_atl1r2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 88.3 / 105
p0 −1.113e+04 ± 6690
200
100
0
−100
−200
−300
pull
Entries 106
Mean −153.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

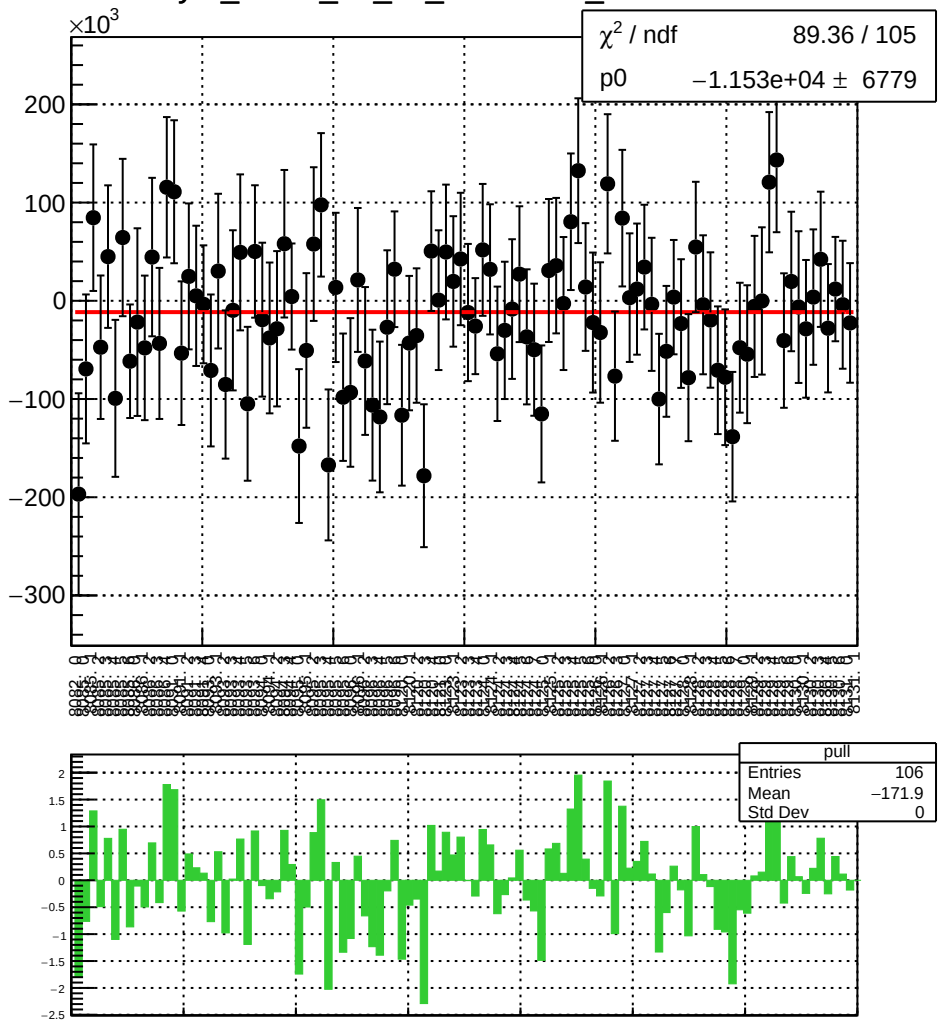

pull1D
Entries 106
Mean −0.009439
Std Dev 0.9127
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

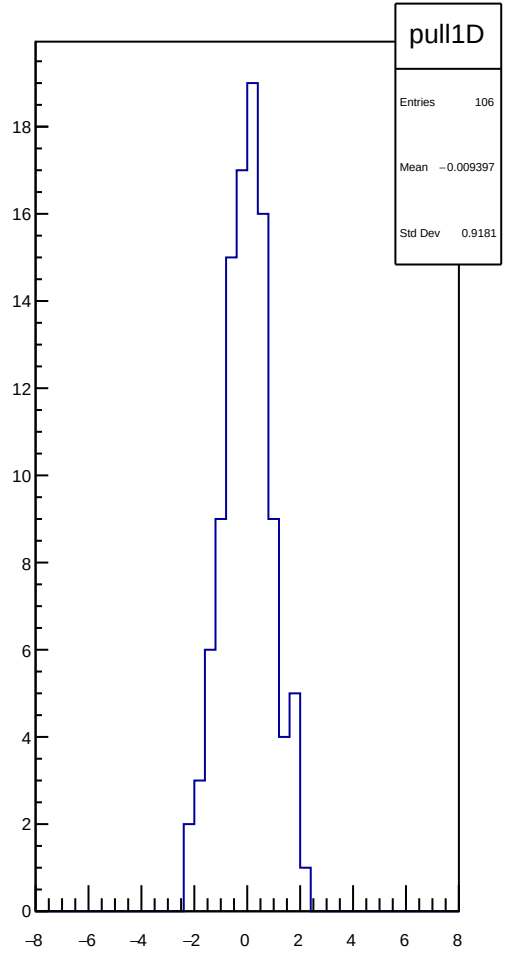

asym_atl1r2_dd_eigen_cor_correction_rms vs run
χ² / ndf 9257 / 105
p0 6713 ± 4.731
9000
8500
8000
7500
7000
6500
6000

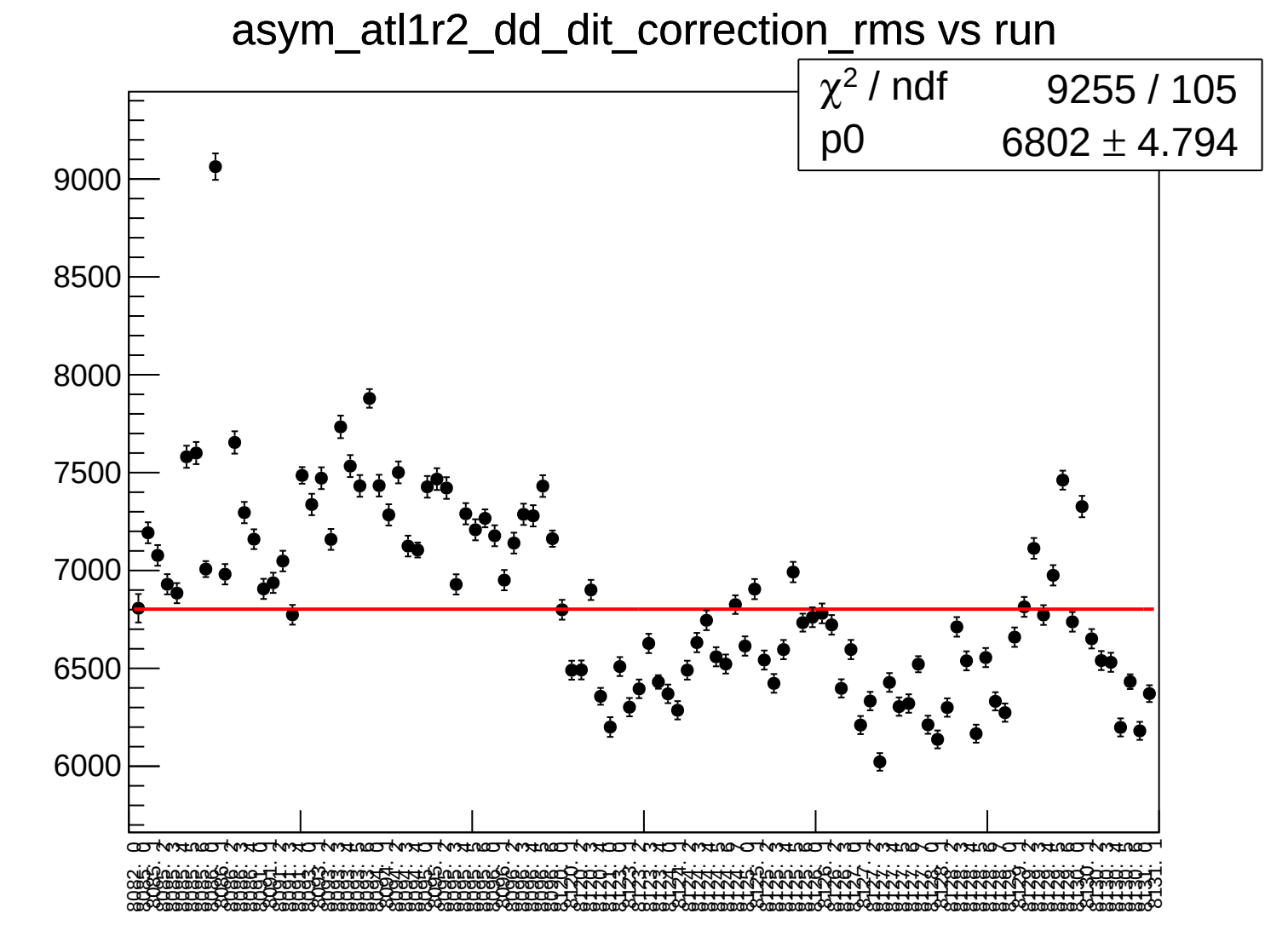

dit_asym_atl1r2_dd_mean vs run
χ² / ndf 85.76 / 104
p0 2549 ± 1696
pull
Entries 105
Mean −1945
Std Dev 0

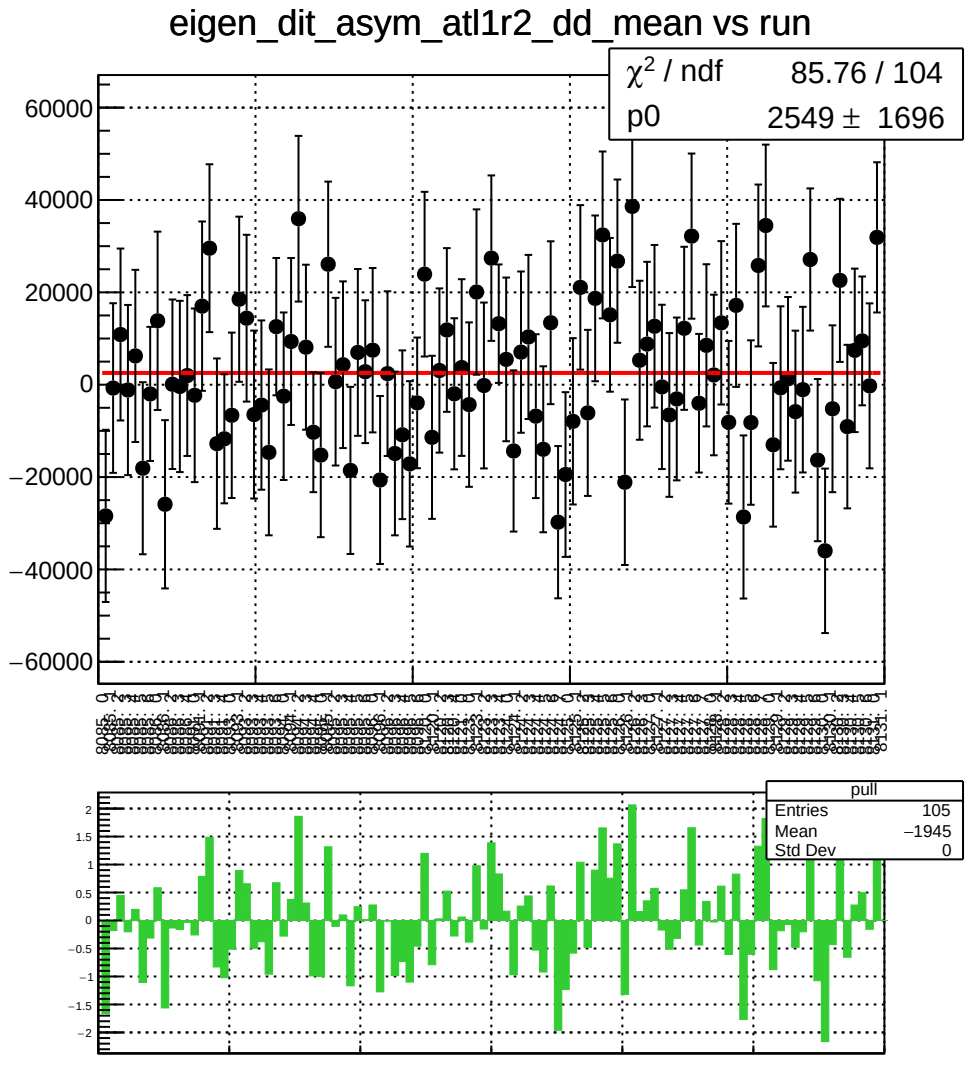

pull1D
Entries 105
Mean −0.001724
Std Dev 0.9037

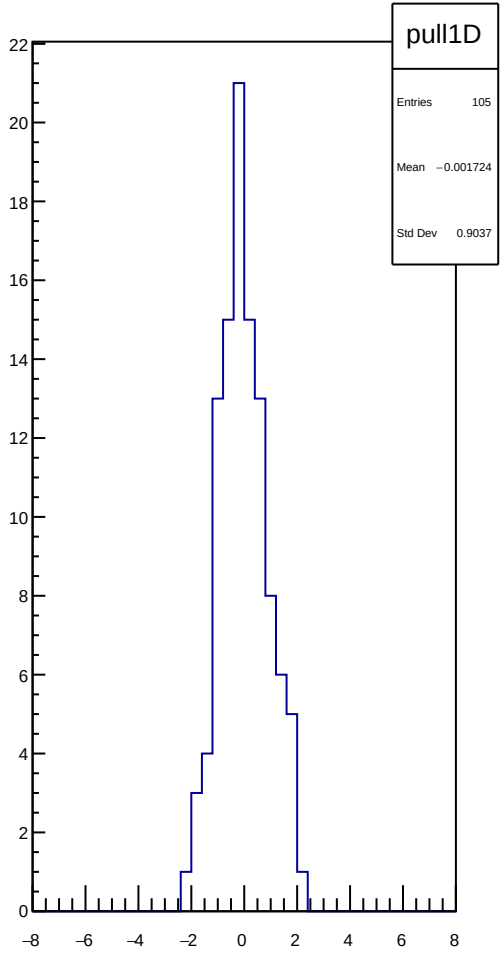

dit_asym_atl1r2_dd_rms vs run
χ² / ndf 656 / 104
p0 1702 ± 1.199
1850
1800
1750
1700
1650

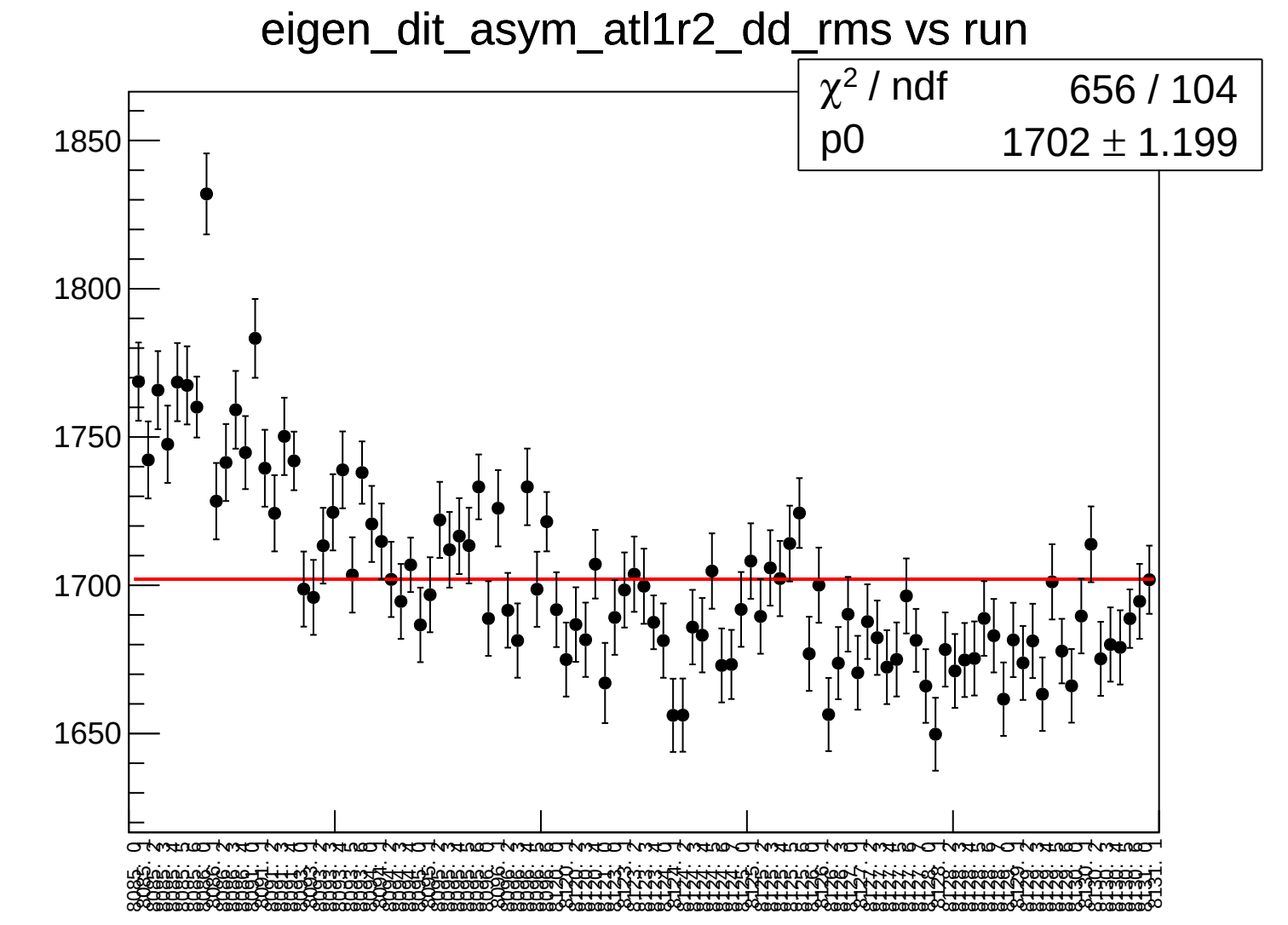

asym_atl1r2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 89.36 / 105
p0 −1.153e+04 ± 6779
200
100
0
−100
−200
−300
pull
Entries 106
Mean −171.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

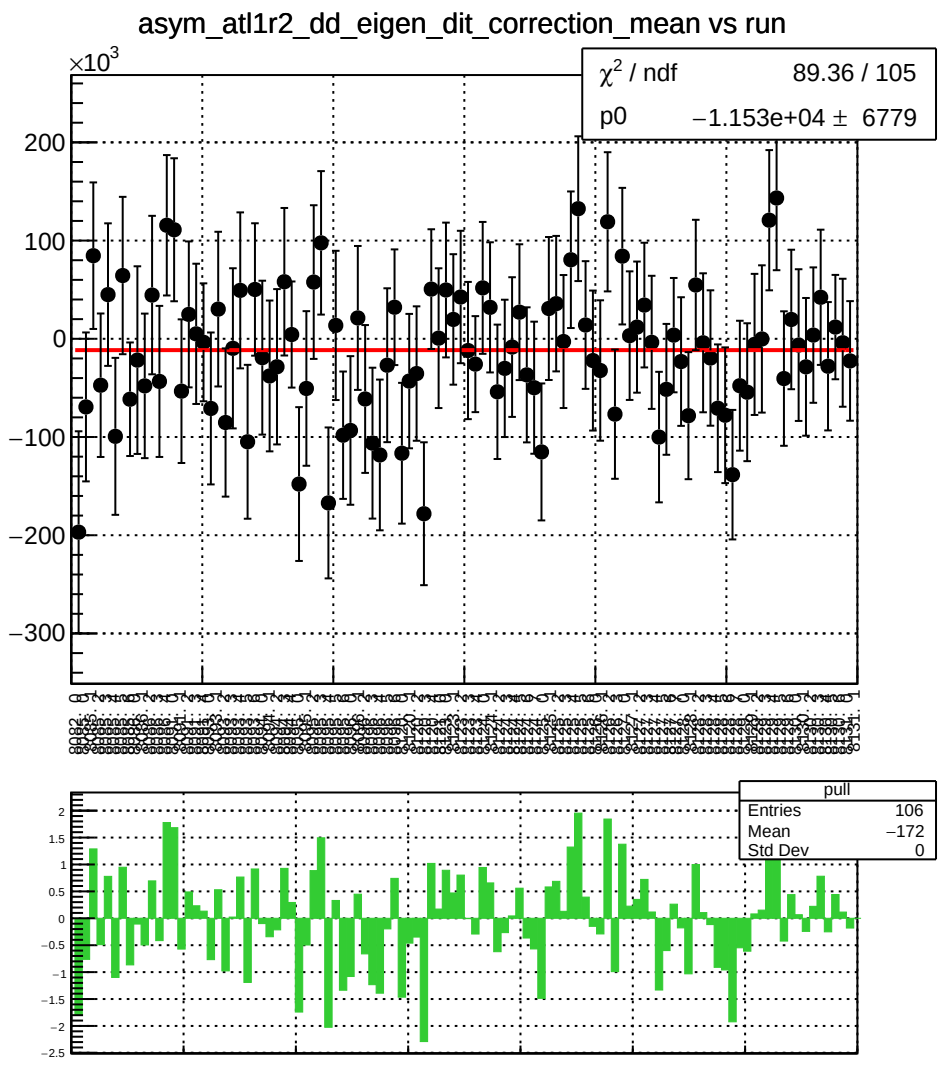

pull1D
Entries 106
Mean −0.009397
Std Dev 0.9181
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

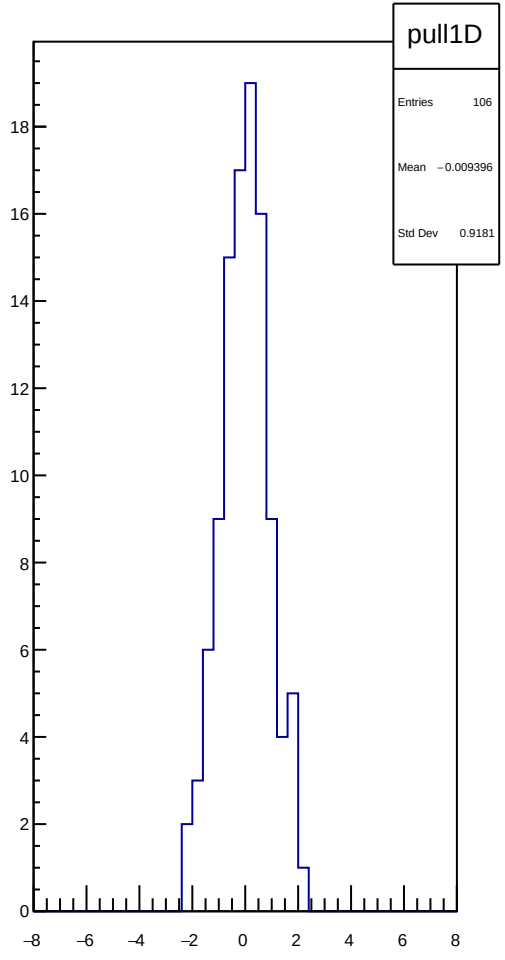

asym_atl1r2_dd_dit_correction_rms vs run
χ² / ndf 9255 / 105
p0 6802 ± 4.794
9000
8500
8000
7500
7000
6500
6000

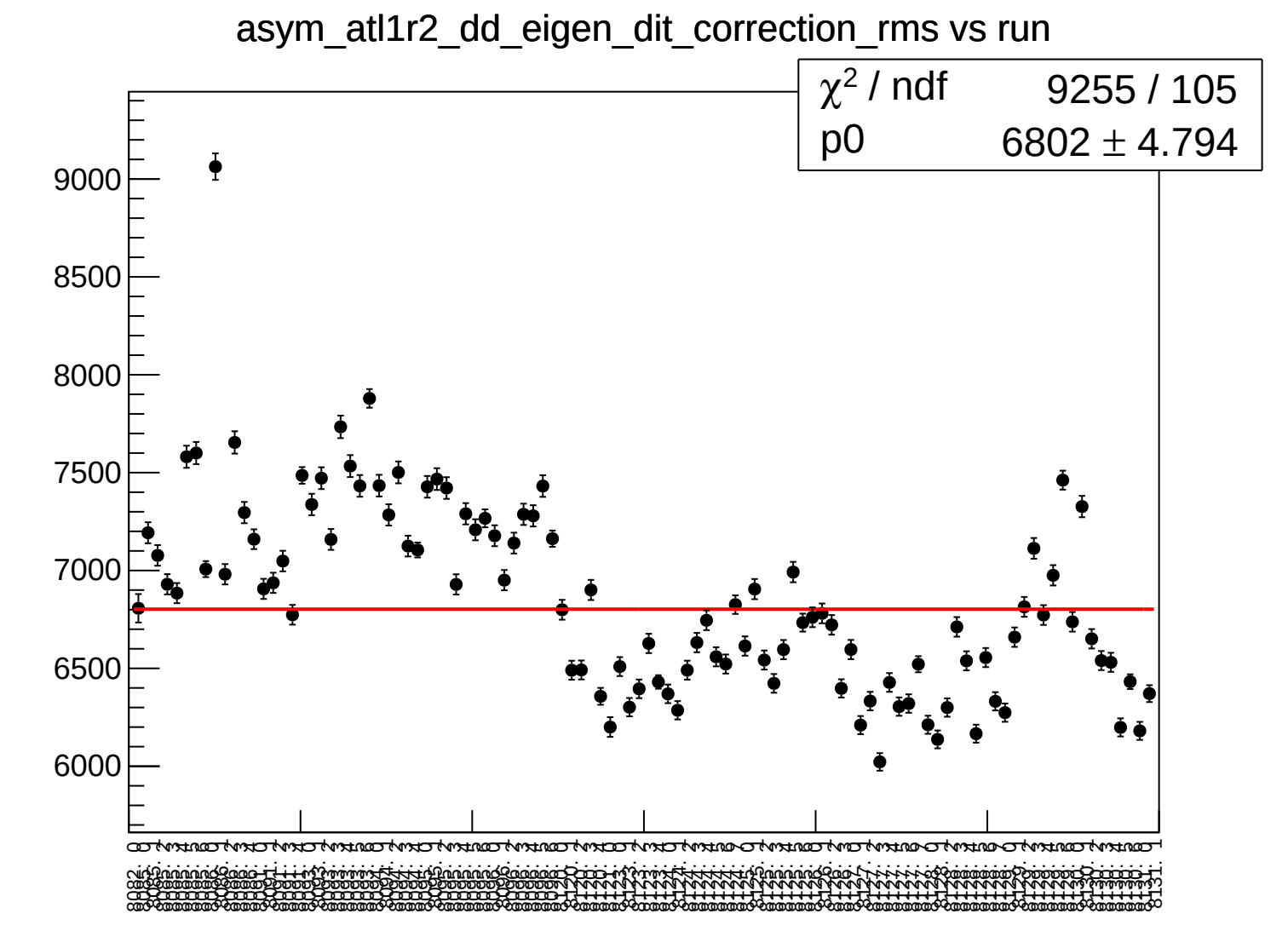

eigen_dit_asym_atl1r2_dd_mean vs run
χ² / ndf 85.76 / 104
p0 2549 ± 1696
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean −1945
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

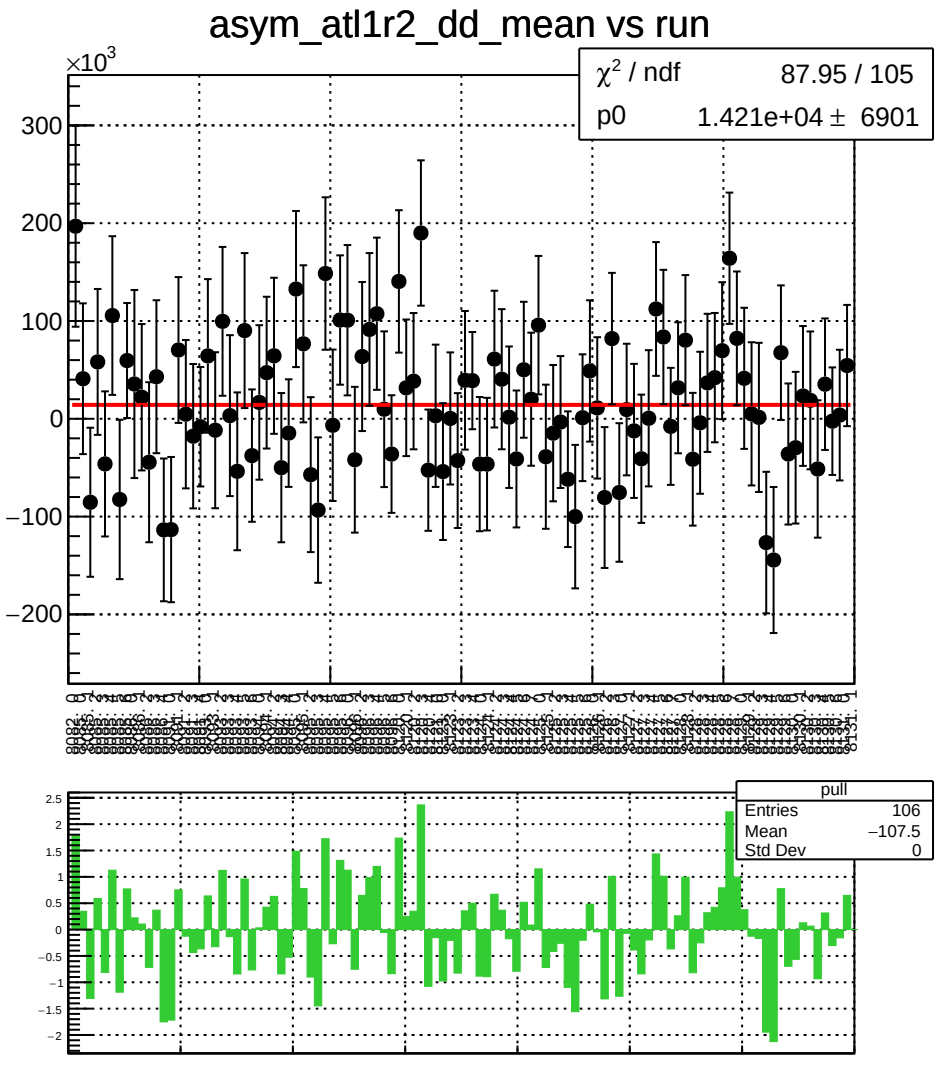

pull1D
Entries 105
Mean −0.001724
Std Dev 0.9037
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

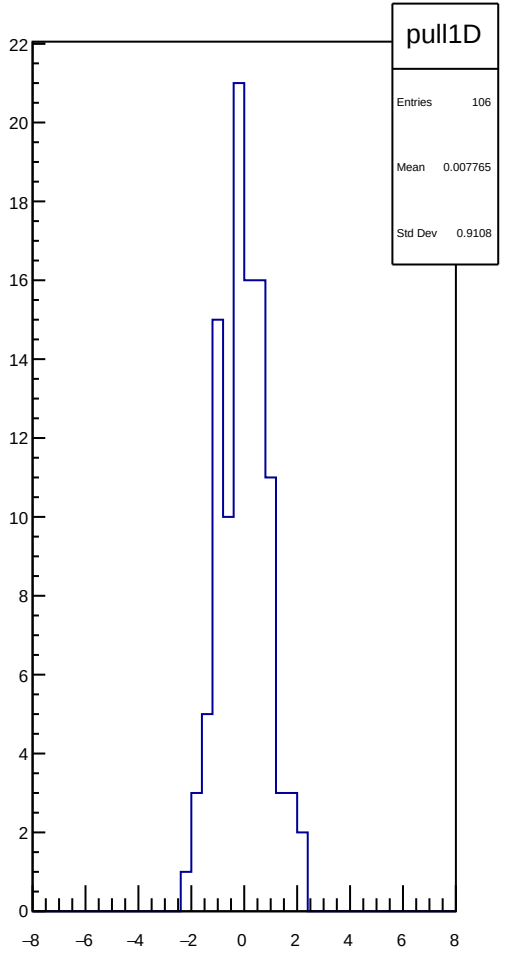

eigen_dit_asym_atl1r2_dd_rms vs run
χ² / ndf 656 / 104
p0 1702 ± 1.199
1850
1800
1750
1700
1650

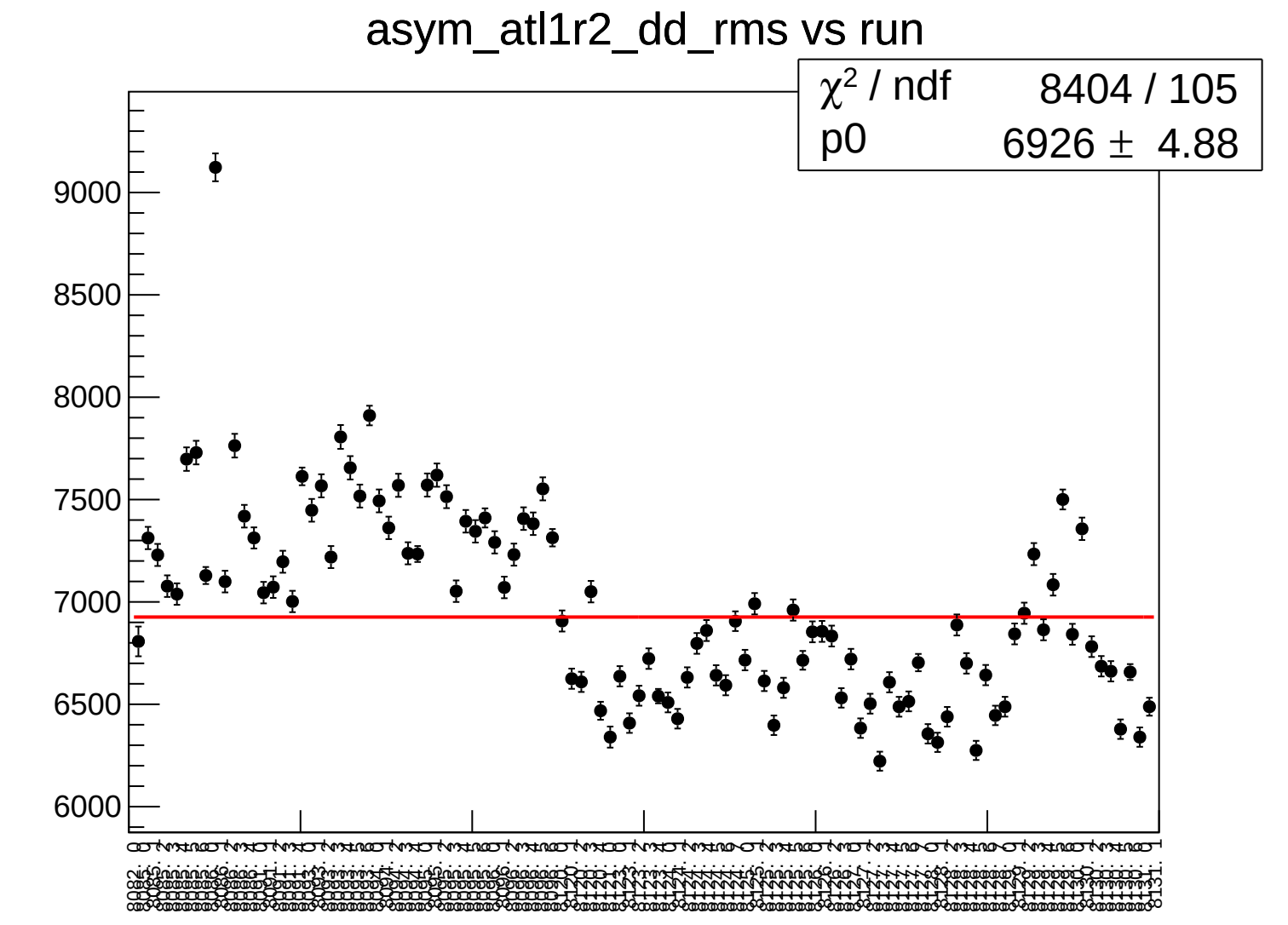

asym_atl1r2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 89.36 / 105
p0 −1.153e+04 ± 6779
200
100
0
−100
−200
−300
pull
Entries 106
Mean −172
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

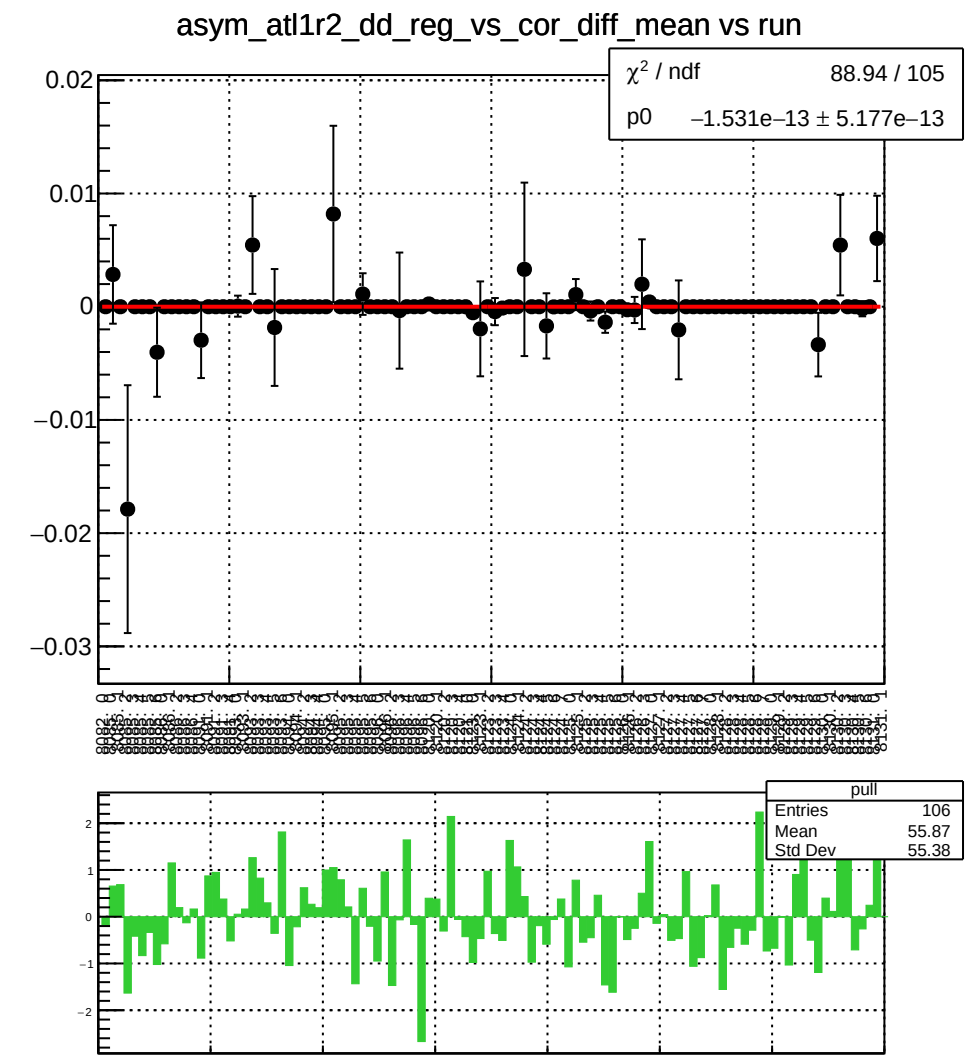

pull1D
Entries 106
Mean −0.009396
Std Dev 0.9181
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

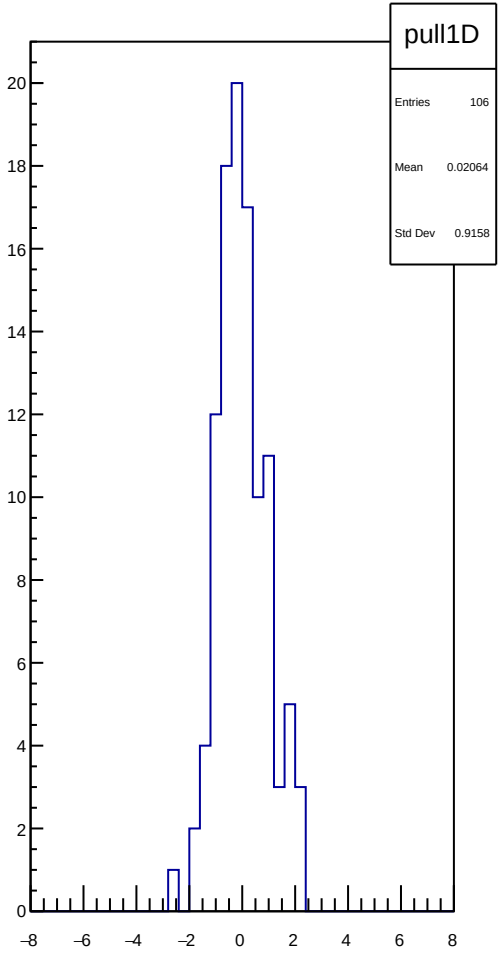

asym_atl1r2_dd_eigen_dit_correction_rms vs run
χ² / ndf 9255 / 105
p0 6802 ± 4.794
9000
8500
8000
7500
7000
6500
6000

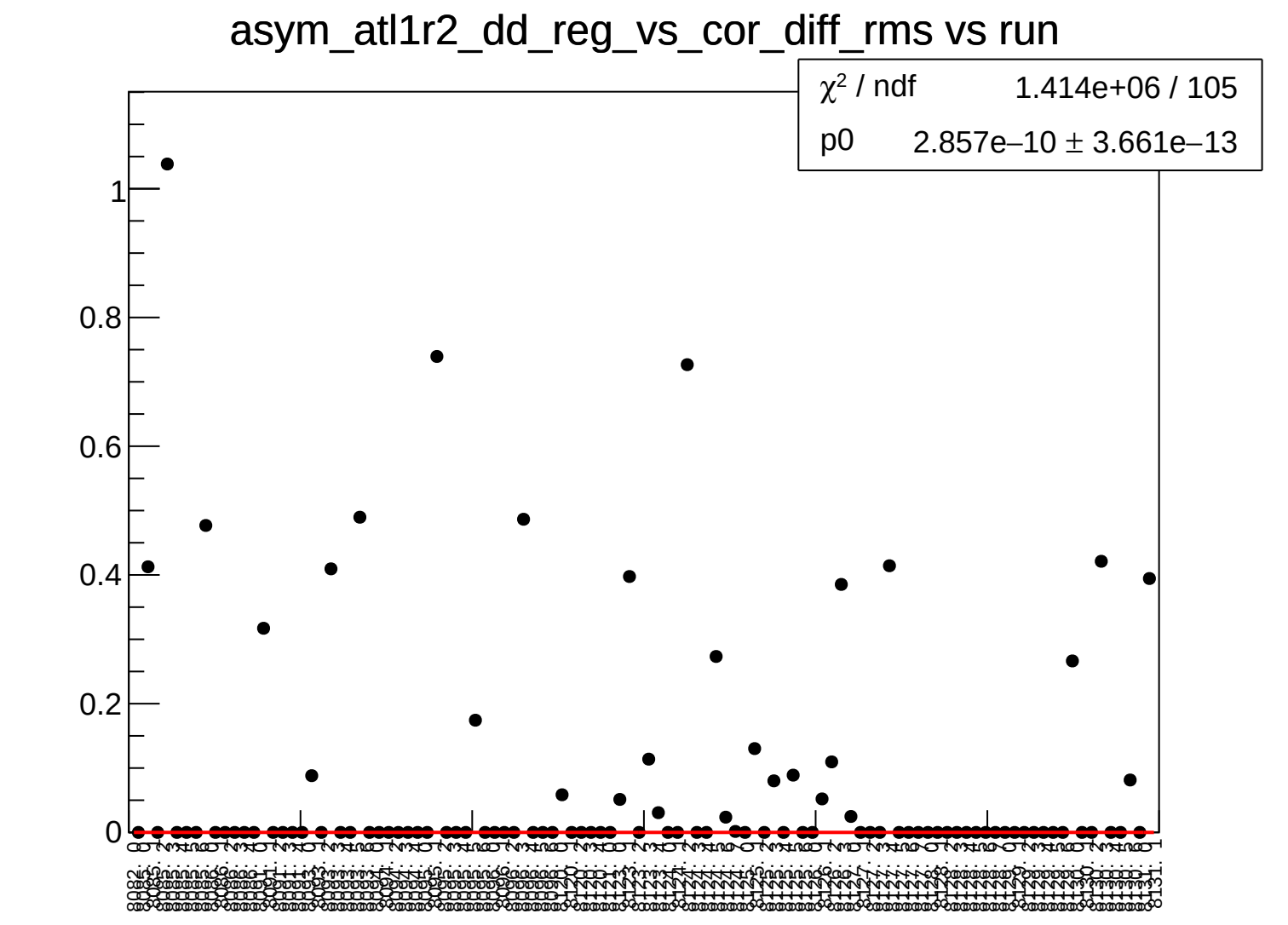

asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 87.95 / 105
p0 1.421e+04 ± 6901
300
200
100
0
−100
−200
pull
Entries 106
Mean −107.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

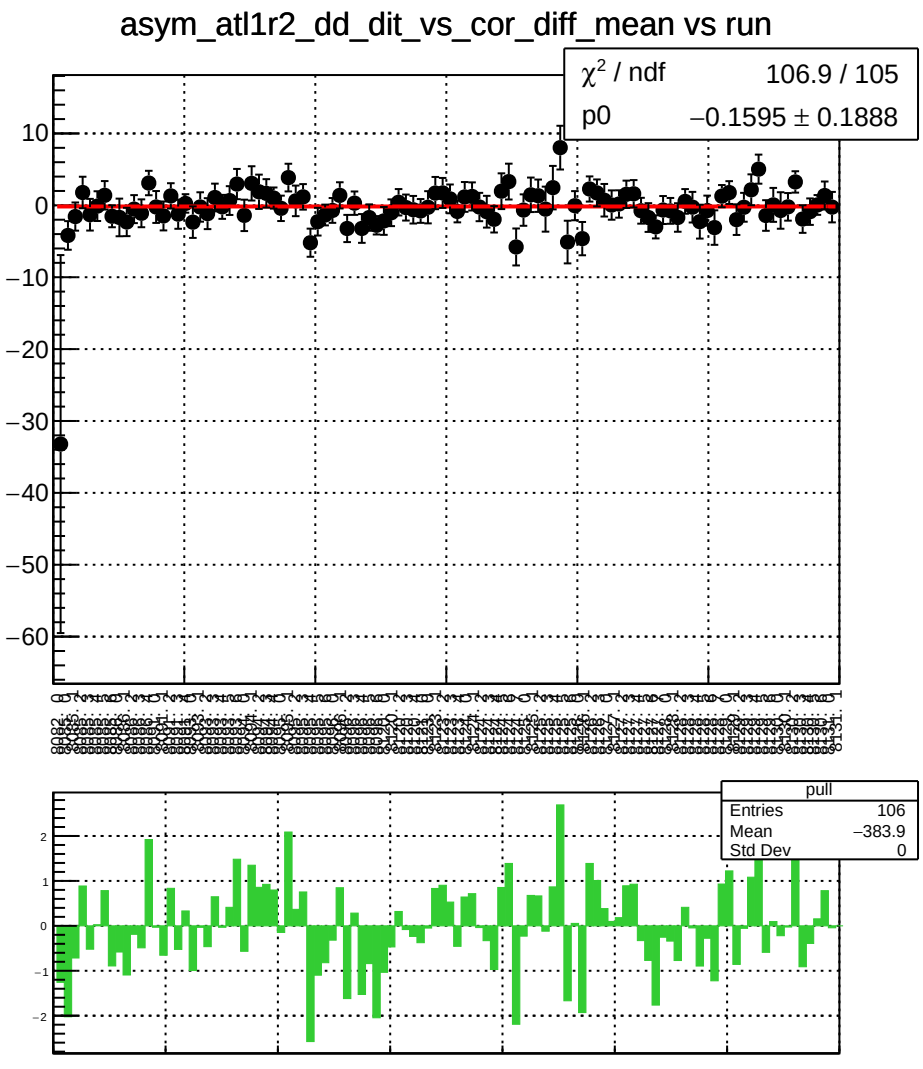

pull1D
Entries 106
Mean 0.007765
Std Dev 0.9108
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

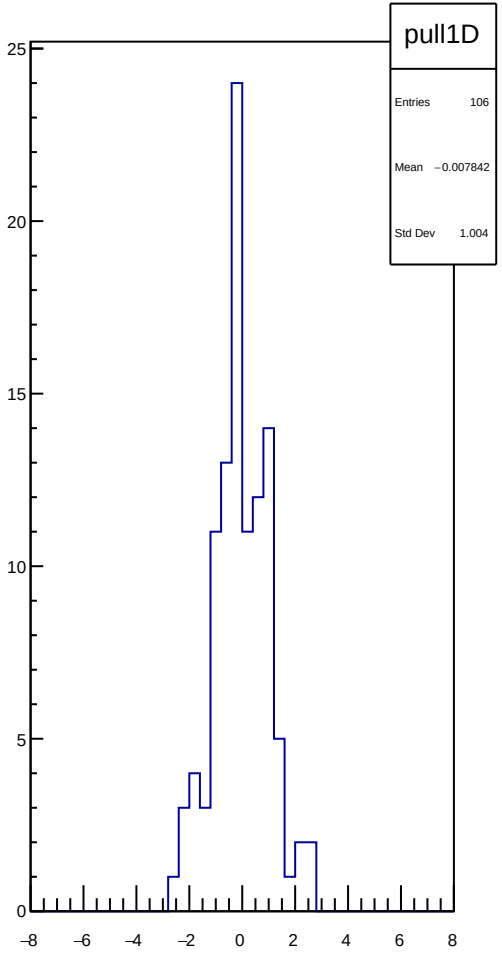

asym_atl1r2_dd_rms vs run
χ² / ndf 8404 / 105
p0 6926 ± 4.88
9000
8500
8000
7500
7000
6500
6000

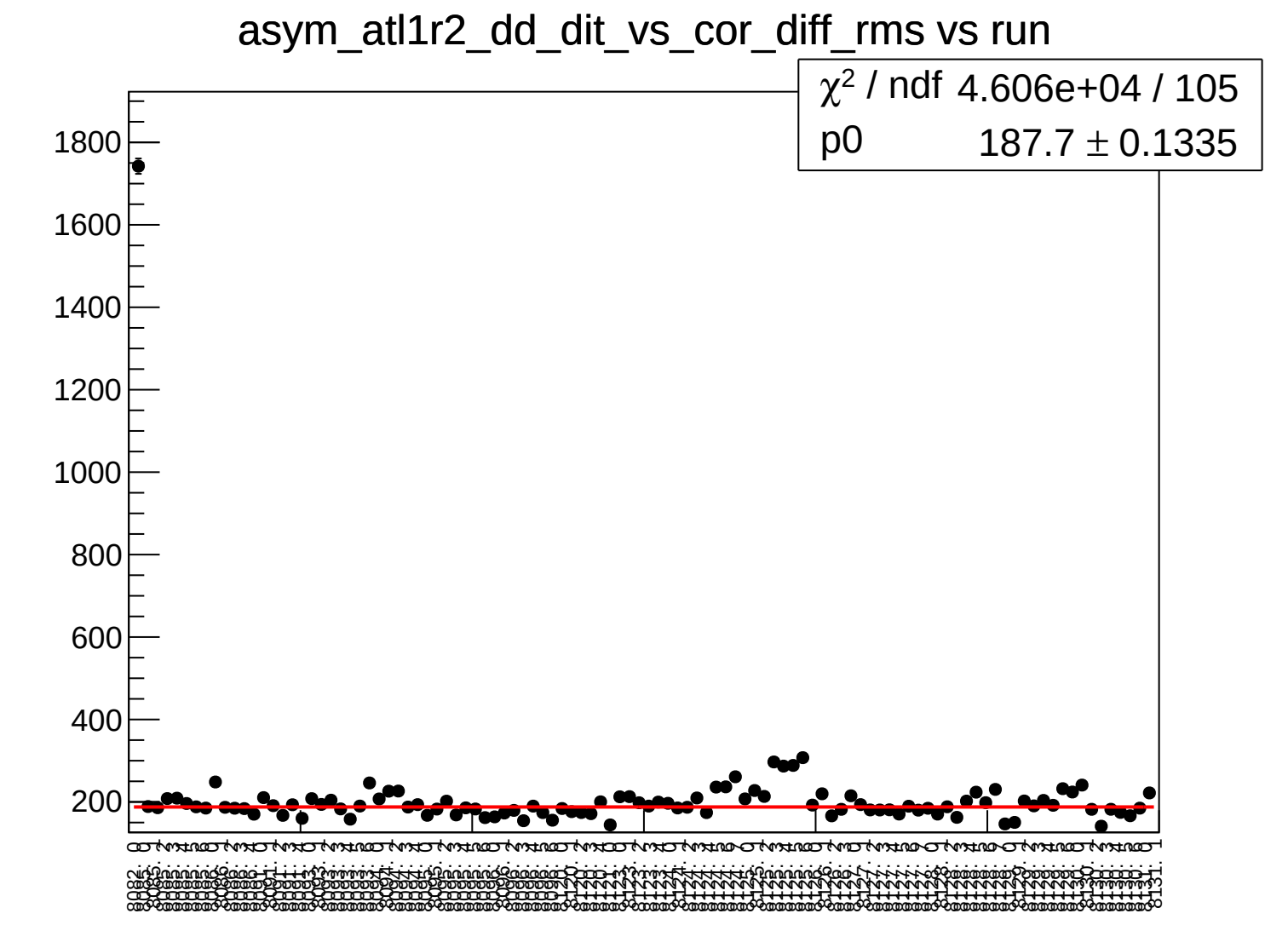

asym_atl1r2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 88.94 / 105
p0 −1.531e−13 ± 5.177e−13
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 106
Mean 55.87
Std Dev 55.38
2
1
0
−1
−2

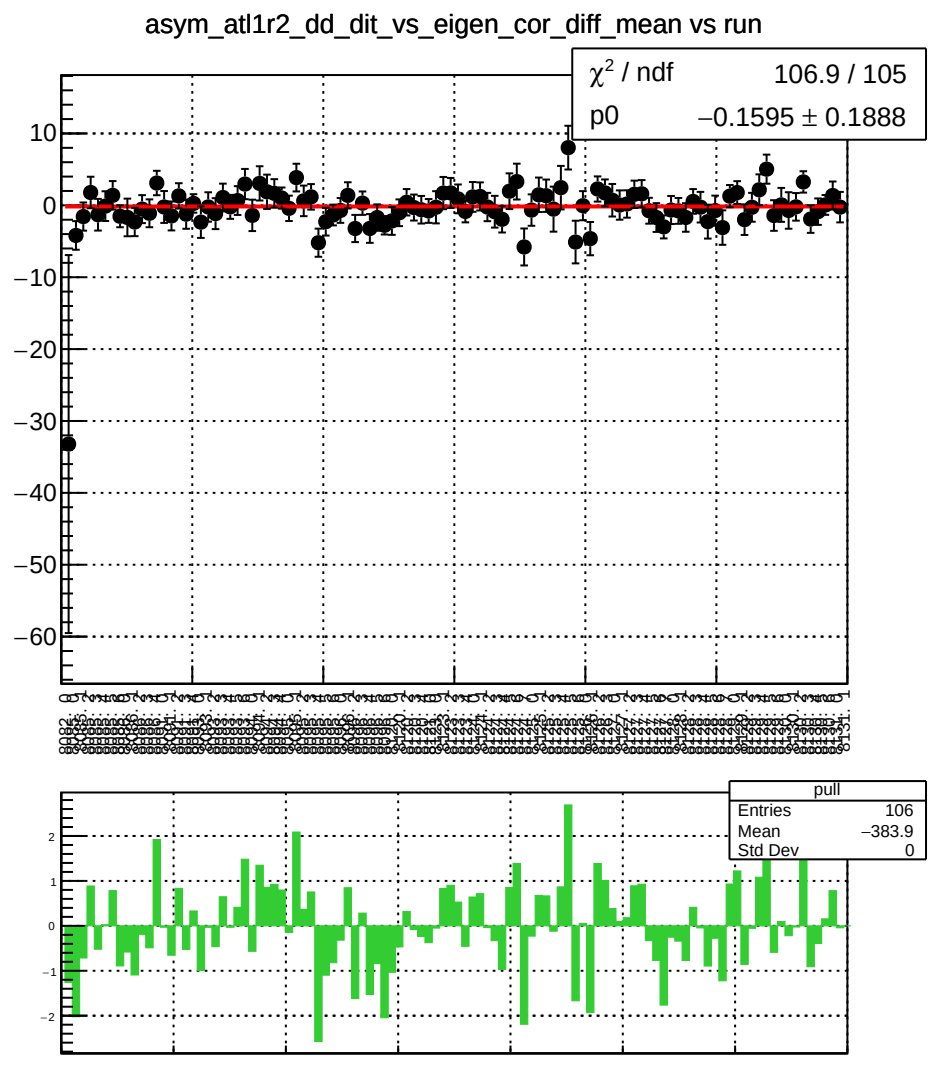

pull1D
Entries 106
Mean 0.02064
Std Dev 0.9158
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

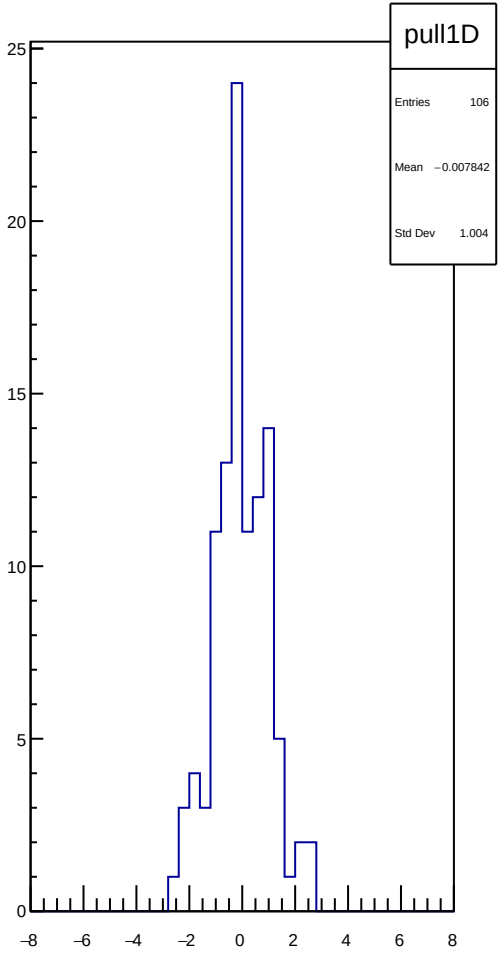

asym_atl1r2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.414e+06 / 105
p0 2.857e−10 ± 3.661e−13
1
0.8
0.6
0.4
0.2
0

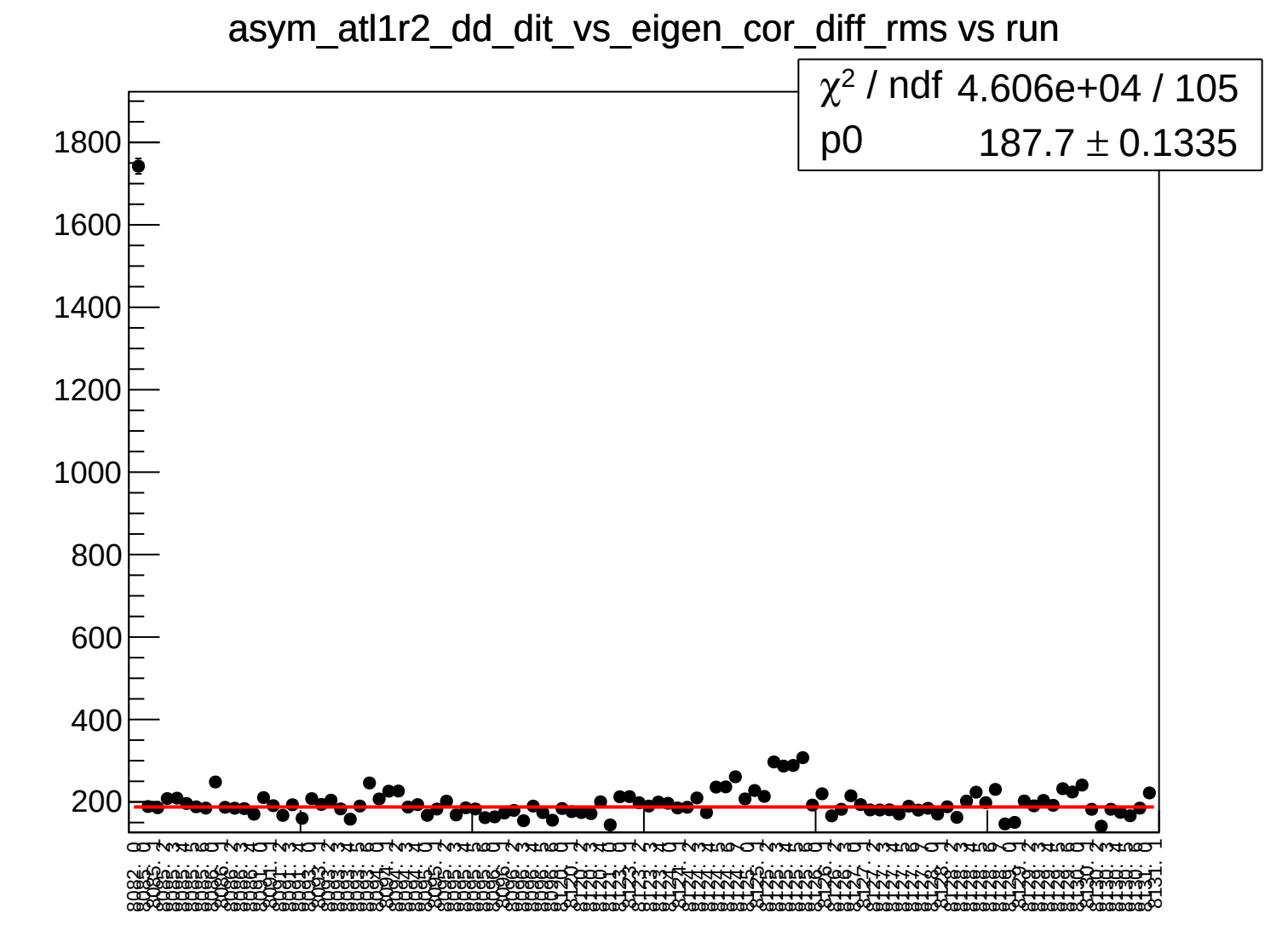

asym_atl1r2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 106.9 / 105
p0 −0.1595 ± 0.1888
pull
Entries 106
Mean −383.9
Std Dev 0

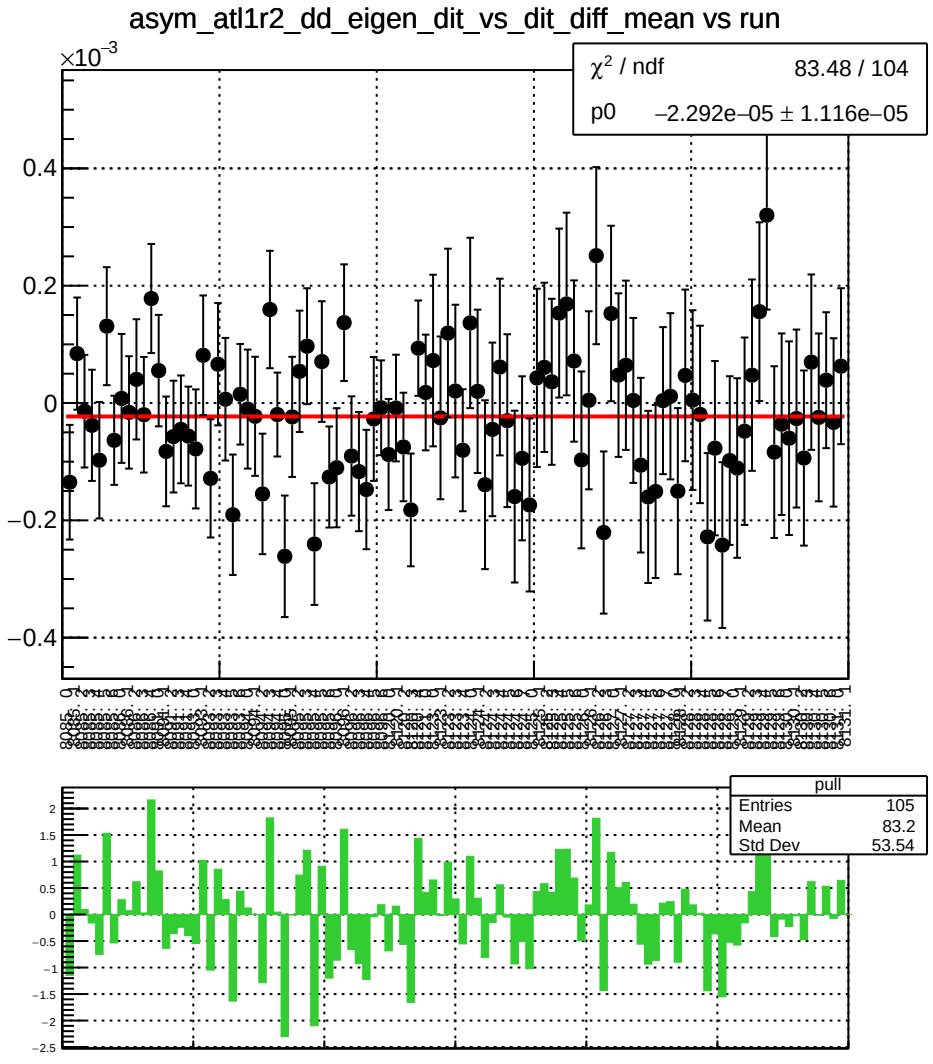

pull1D
Entries 106
Mean −0.007842
Std Dev 1.004

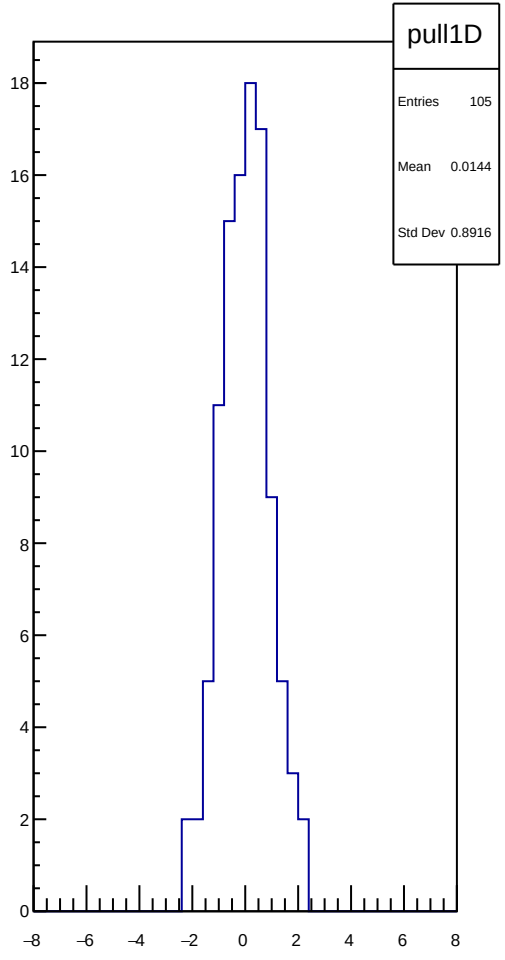

asym_atl1r2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.606e+04 / 105
p0 187.7 ± 0.1335
1800
1600
1400
1200
1000
800
600
400
200

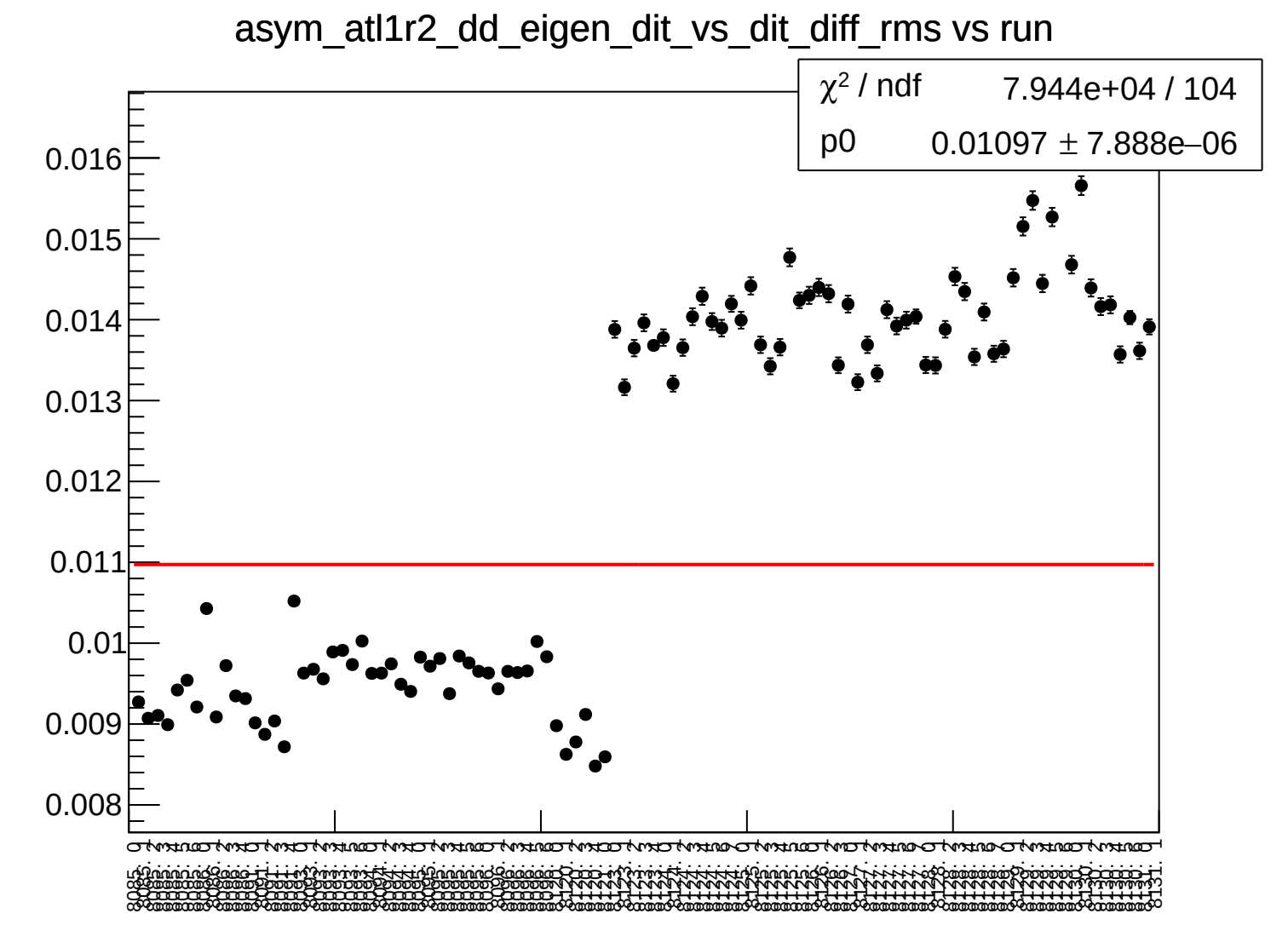

asym_atl1r2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.9 / 105
p0 −0.1595 ± 0.1888
pull
Entries 106
Mean −383.9
Std Dev 0

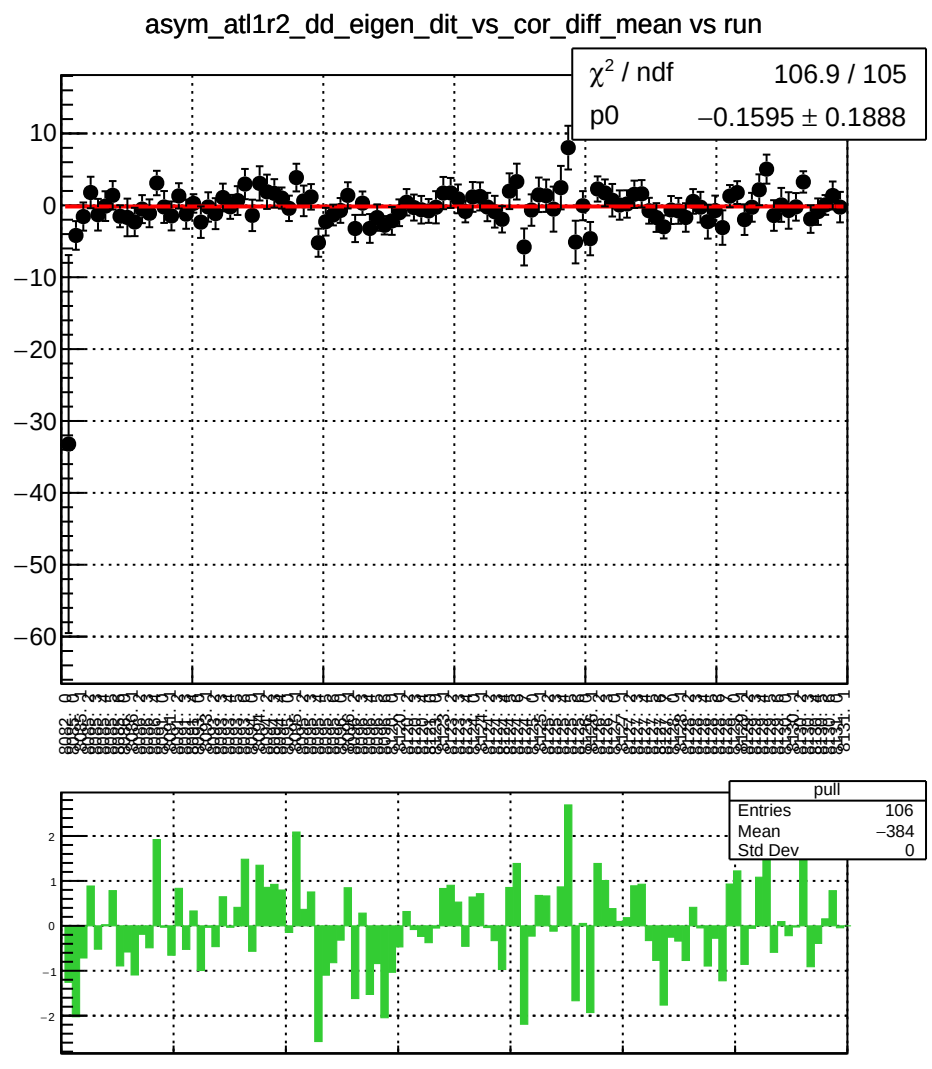

pull1D
Entries 106
Mean −0.007842
Std Dev 1.004

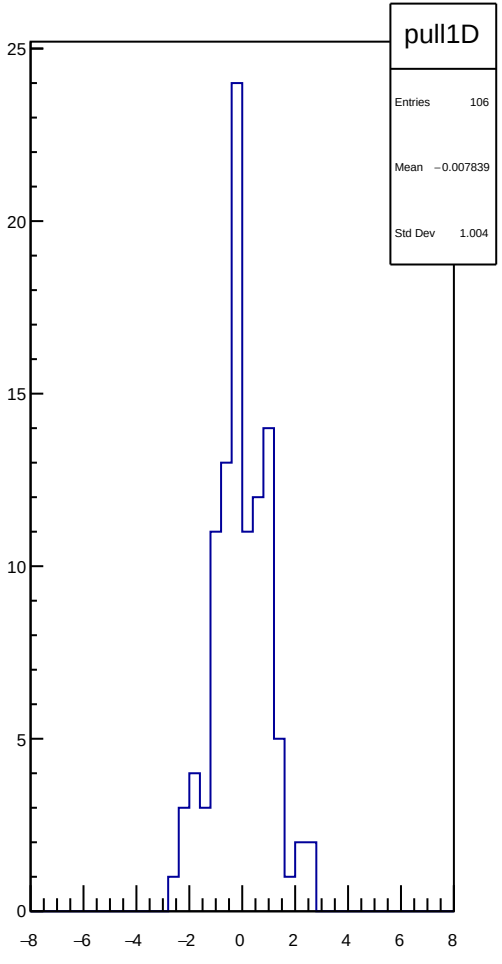

asym_atl1r2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.606e+04 / 105
p0 187.7 ± 0.1335
1800
1600
1400
1200
1000
800
600
400
200

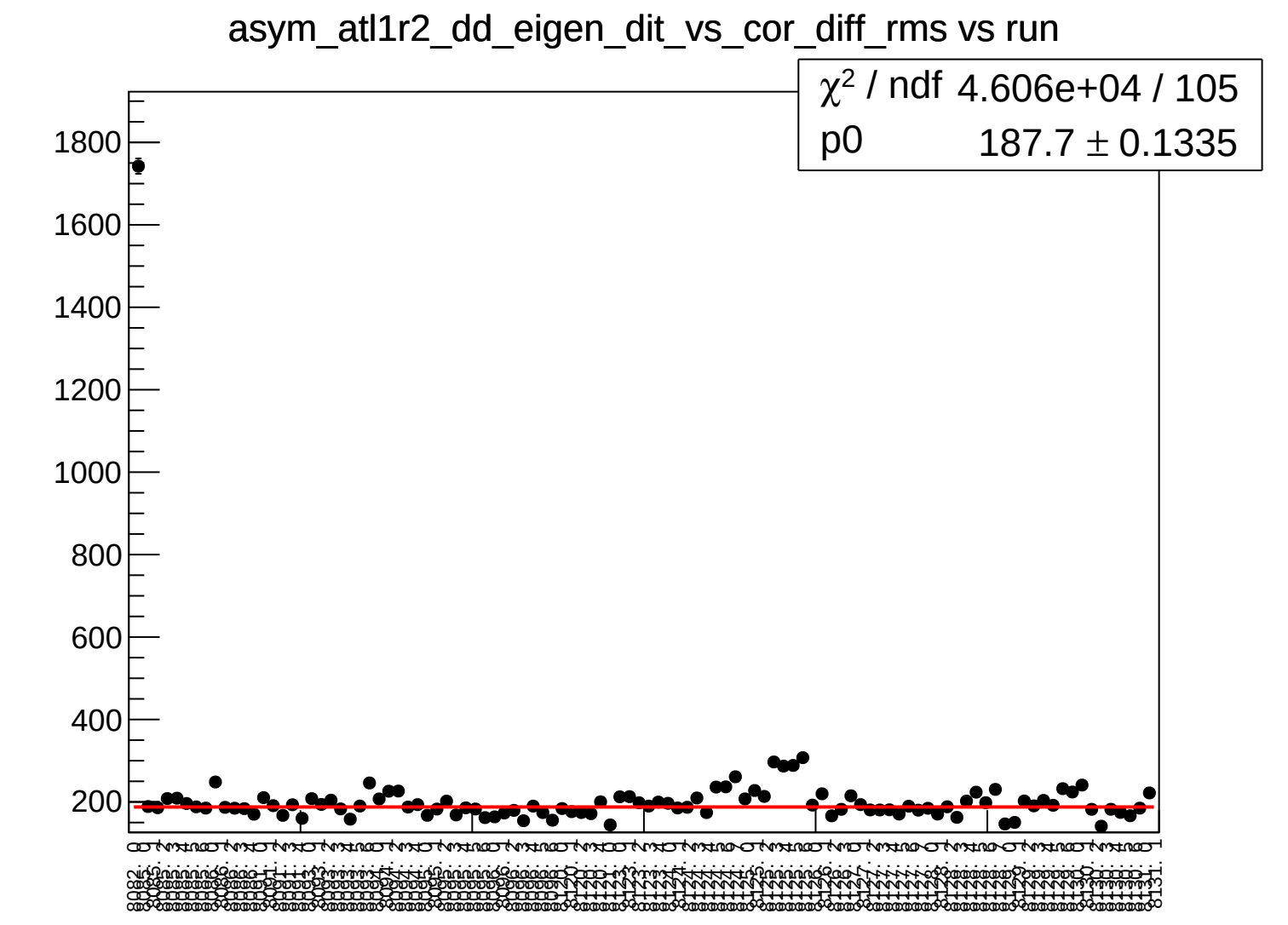

asym_atl1r2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 83.48 / 104
p0 −2.292e−05 ± 1.116e−05
0.4
0.2
0
−0.2
−0.4
pull
Entries 105
Mean 83.2
Std Dev 53.54
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

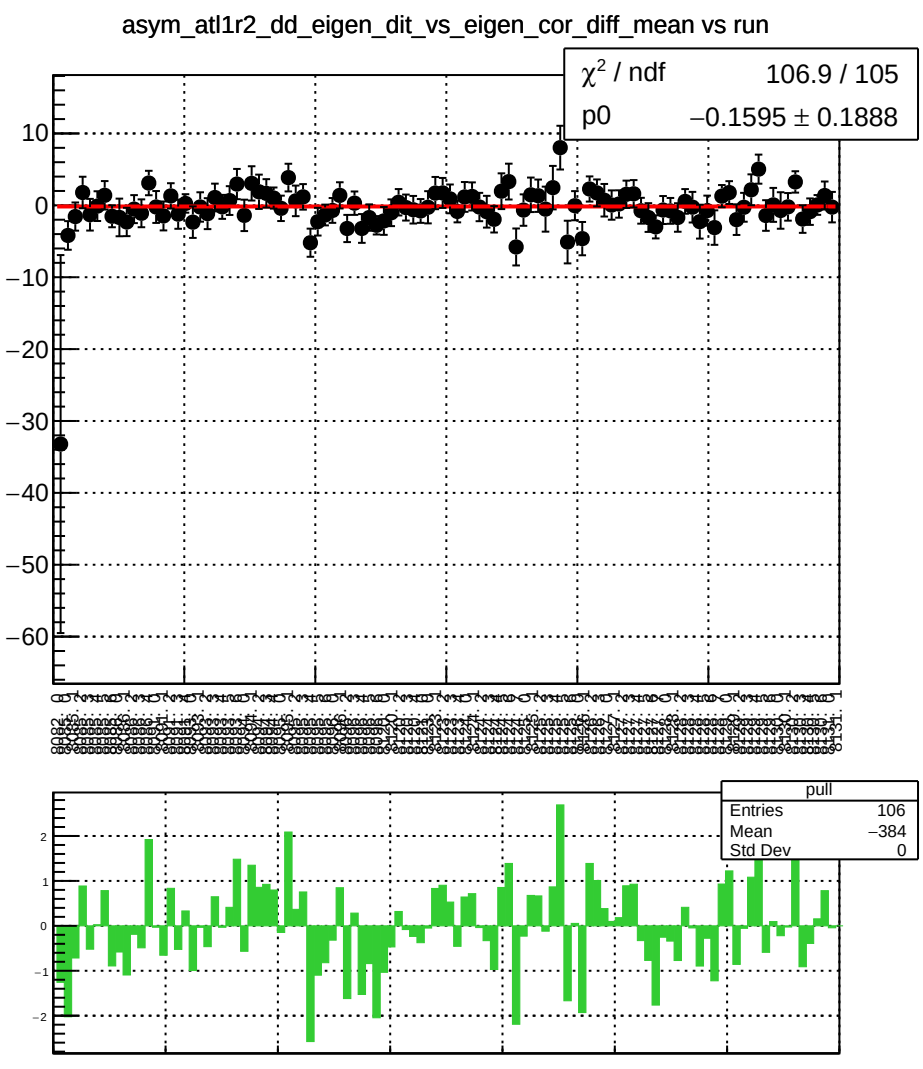

pull1D
Entries 105
Mean 0.0144
Std Dev 0.8916
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

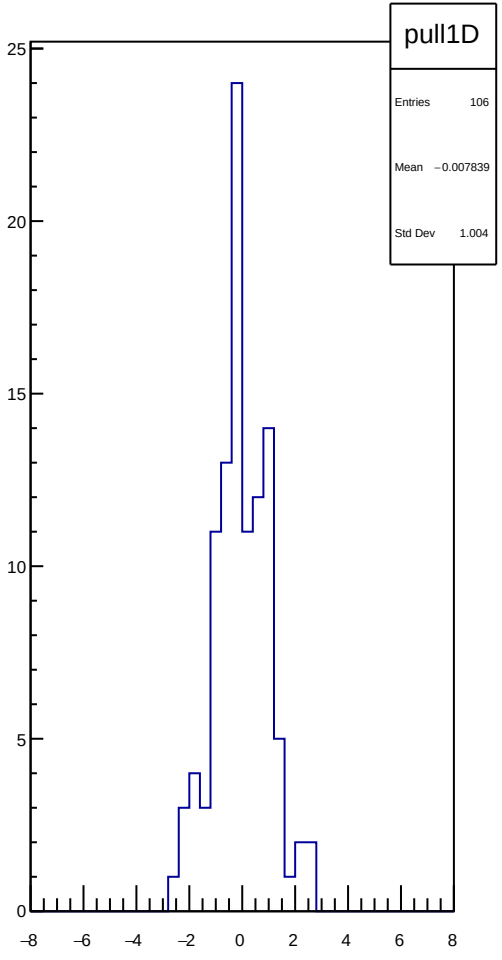

asym_atl1r2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.944e+04 / 104
p0 0.01097 ± 7.888e−06
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008

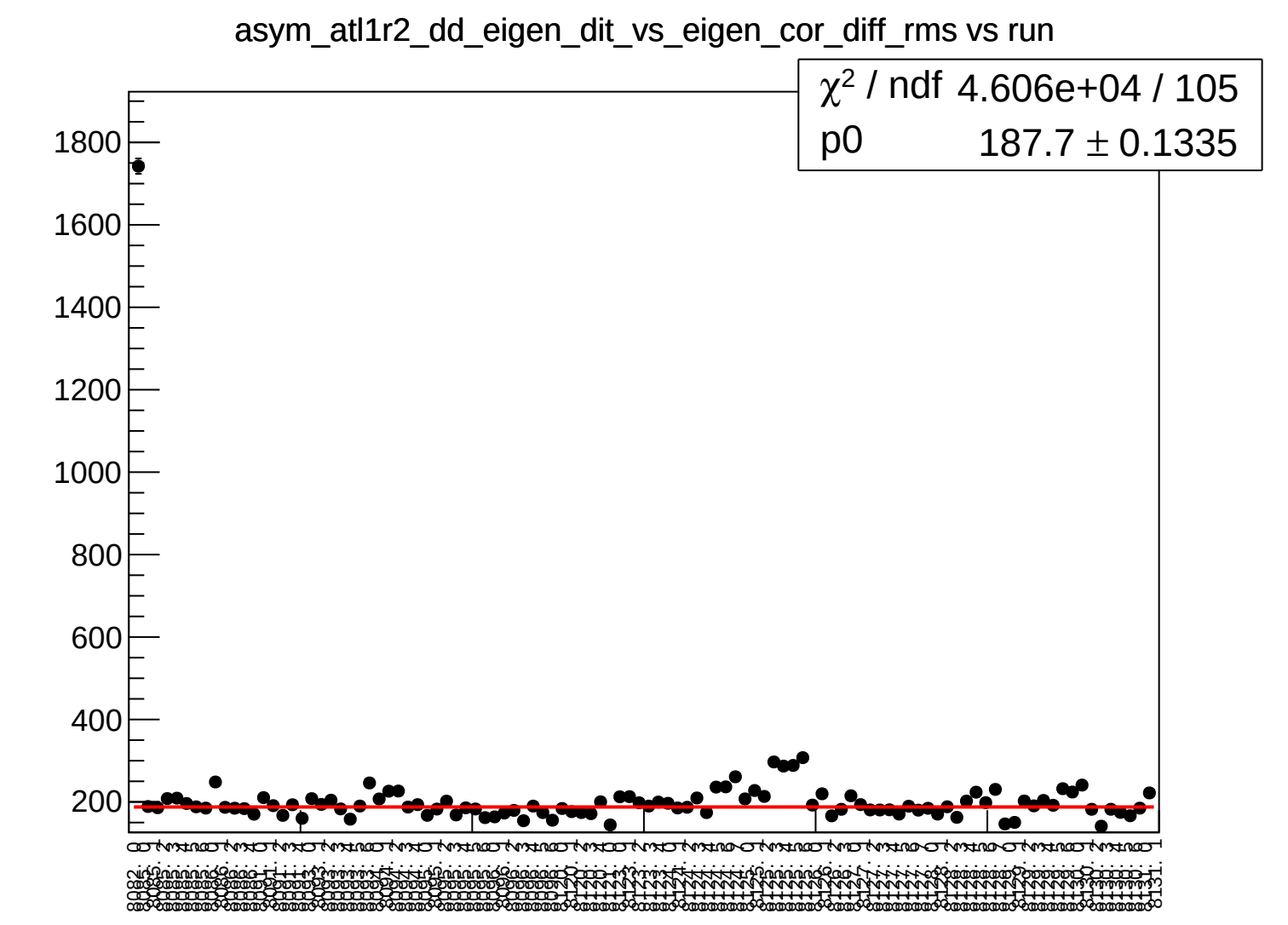

asym_atl1r2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 106.9 / 105
p0 −0.1595 ± 0.1888
pull
Entries 106
Mean −384
Std Dev 0

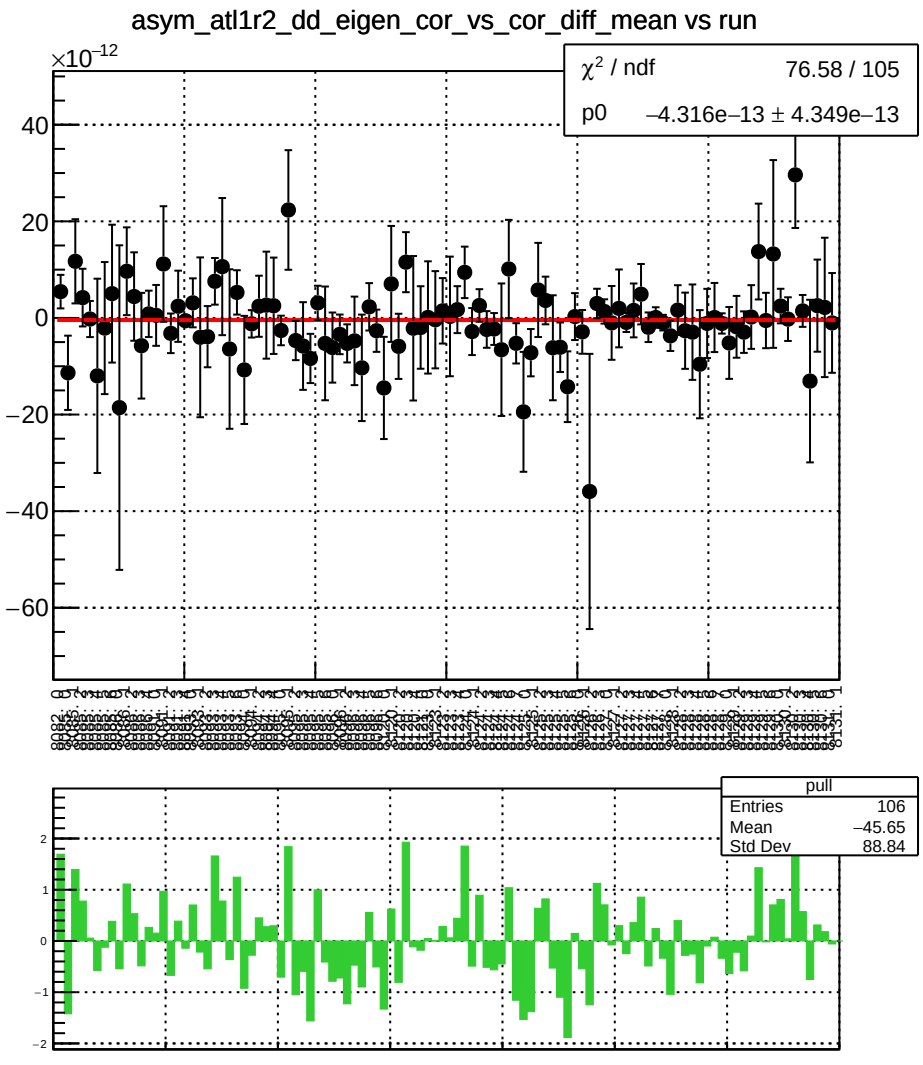

pull1D
Entries 106
Mean −0.007839
Std Dev 1.004

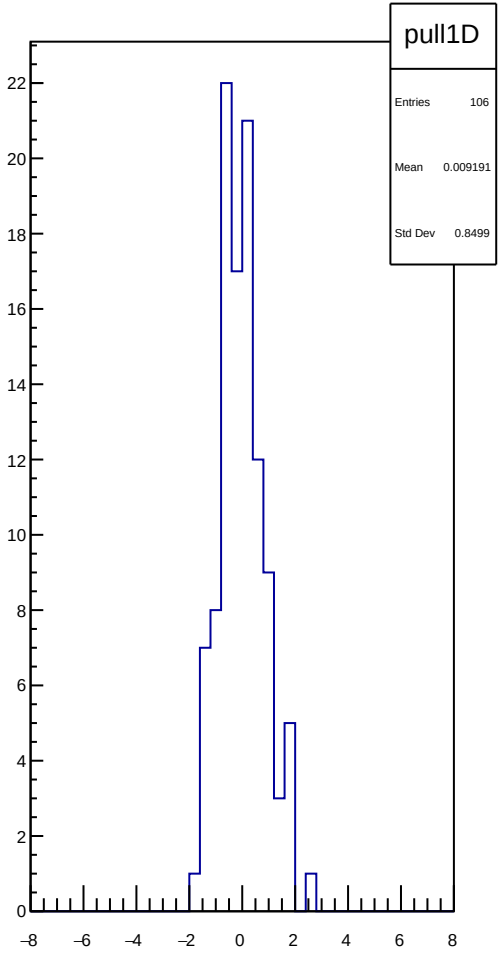

asym_atl1r2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.606e+04 / 105
p0 187.7 ± 0.1335
1800
1600
1400
1200
1000
800
600
400
200

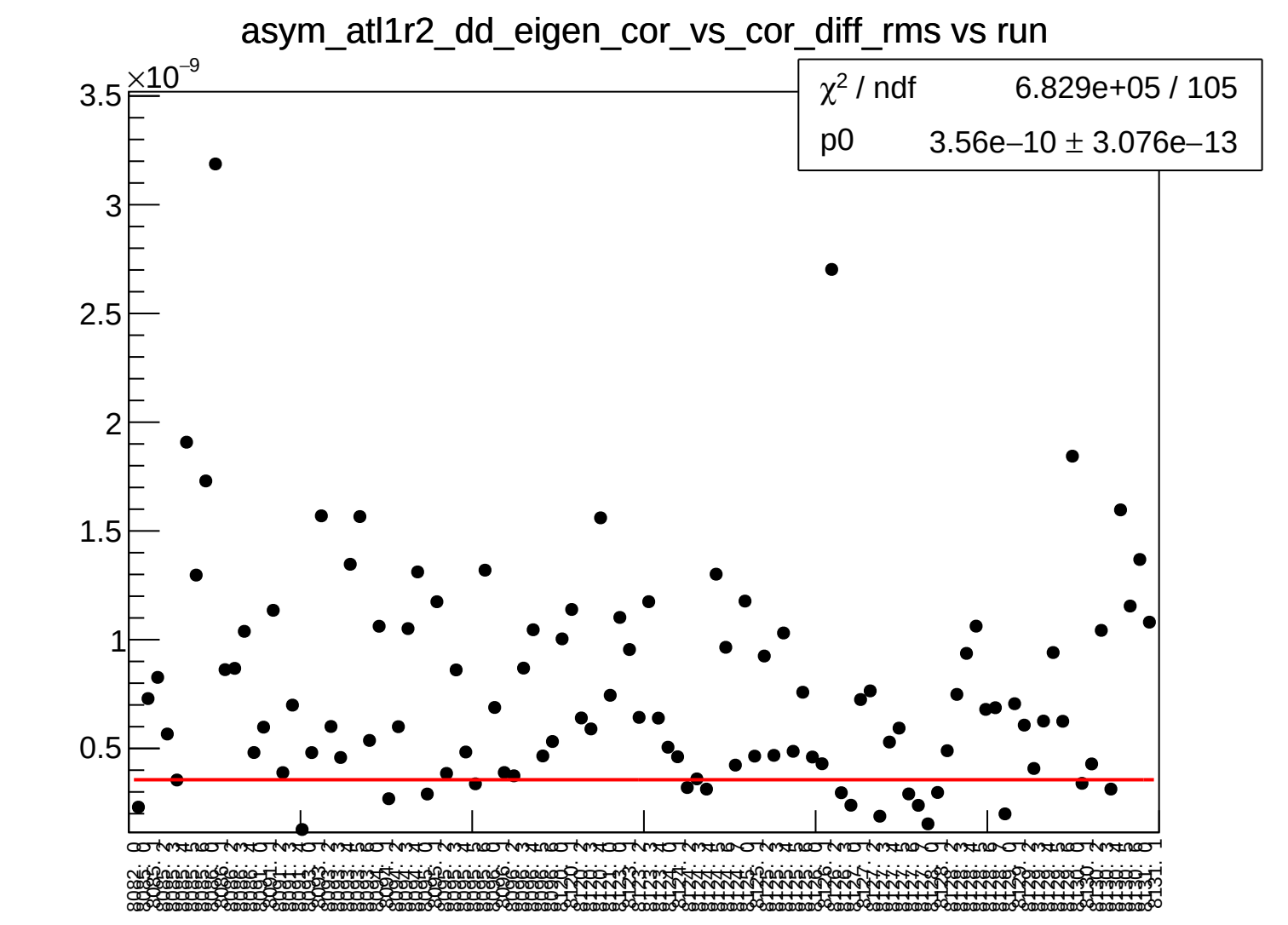

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.9 / 105
p0 −0.1595 ± 0.1888
pull
Entries 106
Mean −384
Std Dev 0

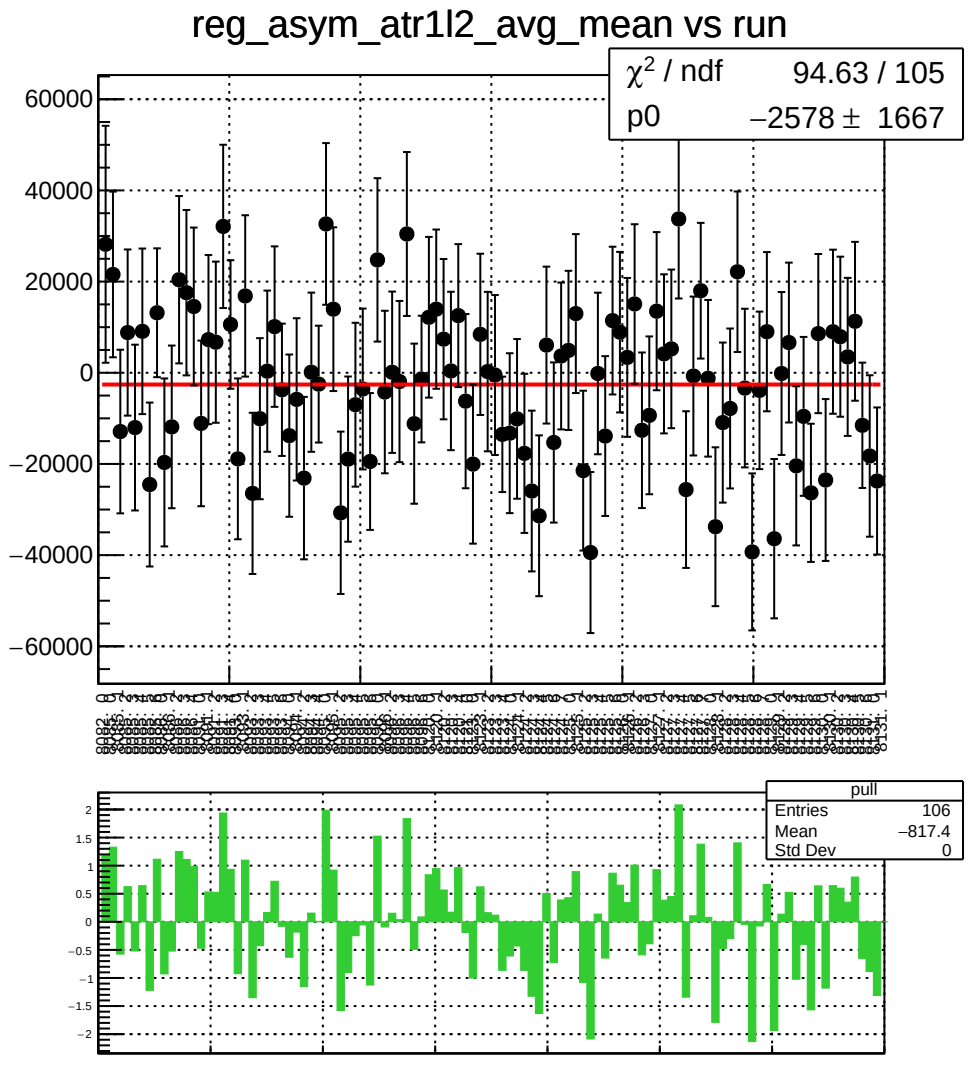

pull1D
Entries 106
Mean −0.007839
Std Dev 1.004

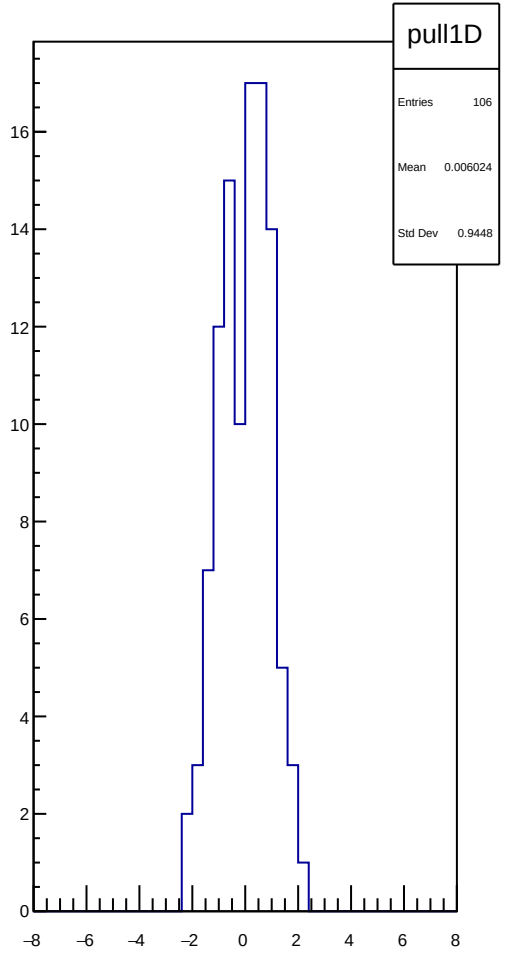

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.606e+04 / 105
p0 187.7 ± 0.1335
1800
1600
1400
1200
1000
800
600
400
200

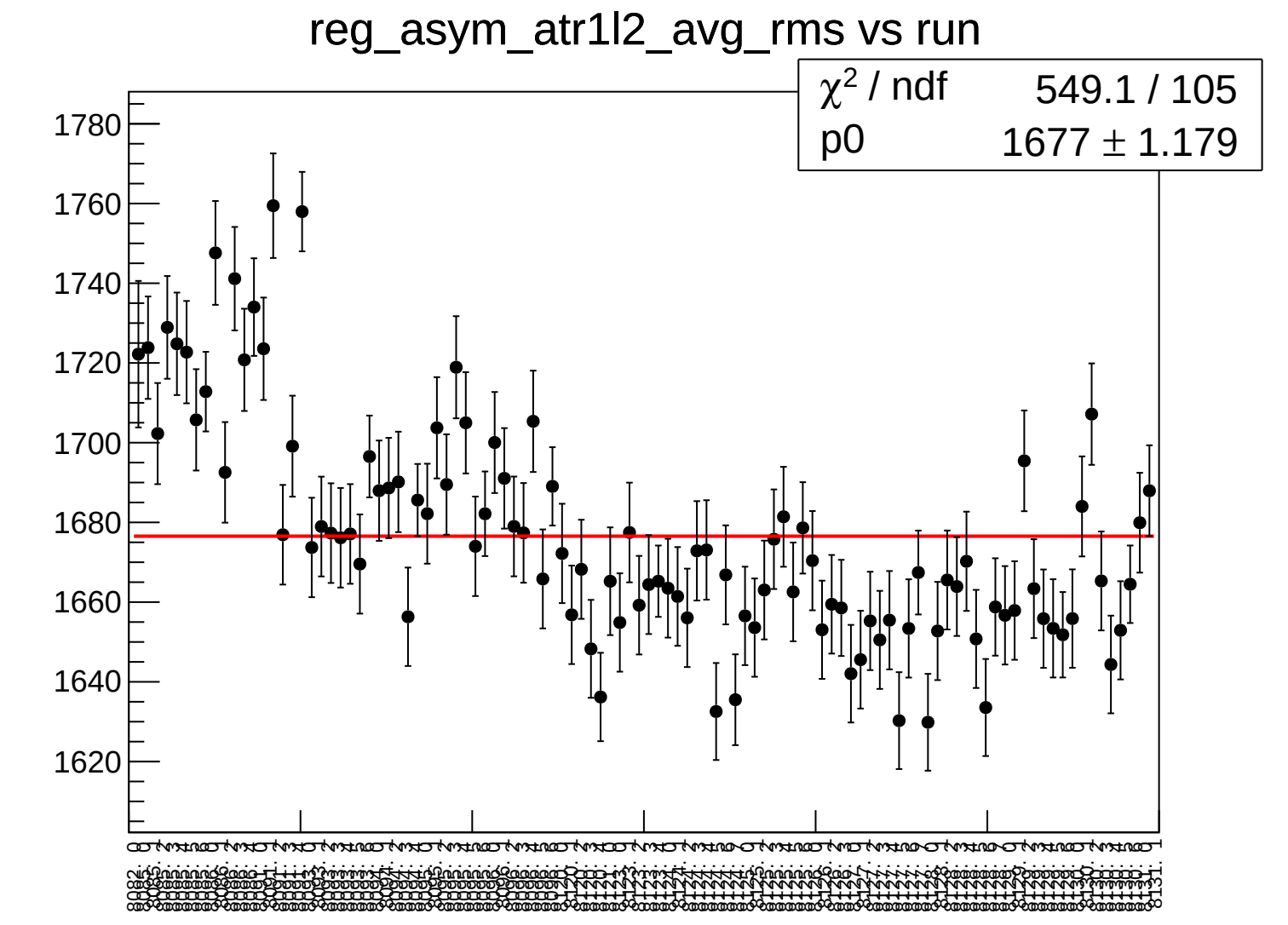

asym_atl1r2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.58 / 105
p0 −4.316e−13 ± 4.349e−13
pull
Entries 106
Mean −45.65
Std Dev 88.84

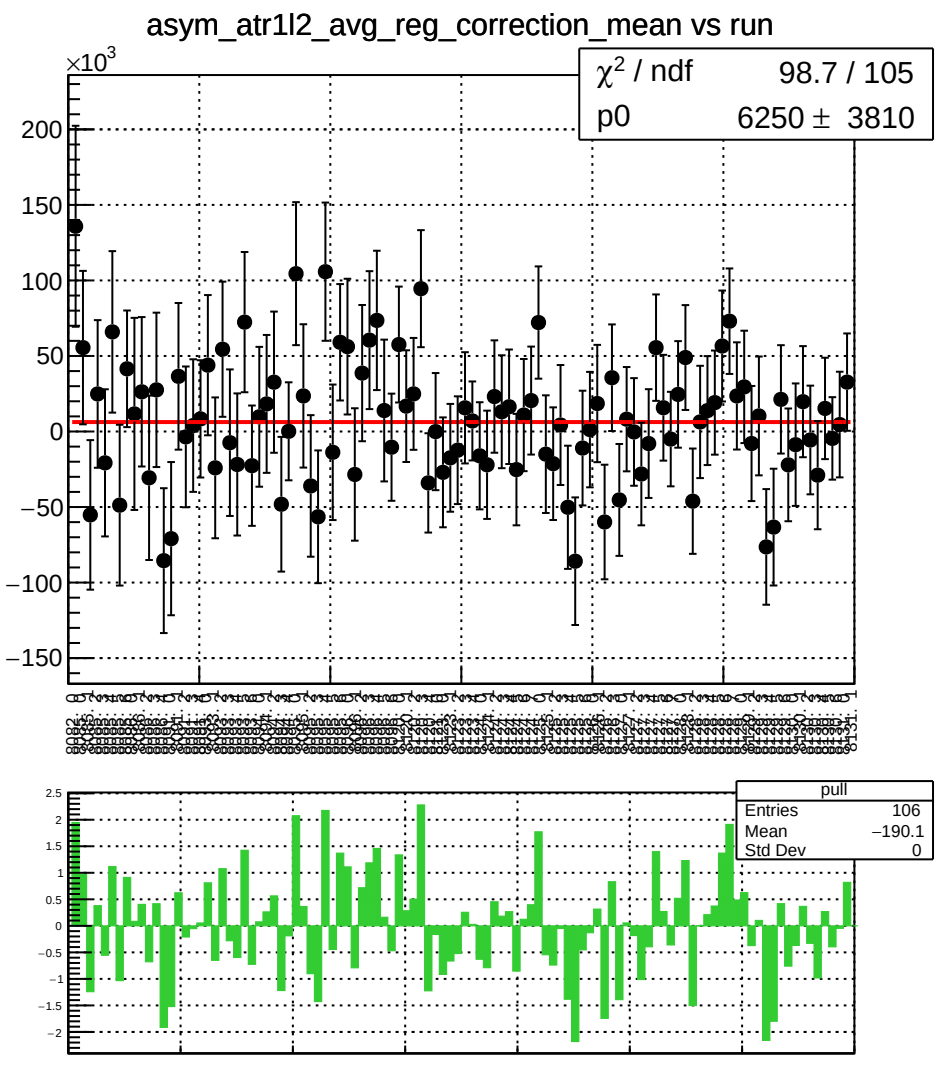

pull1D
Entries 106
Mean 0.009191
Std Dev 0.8499

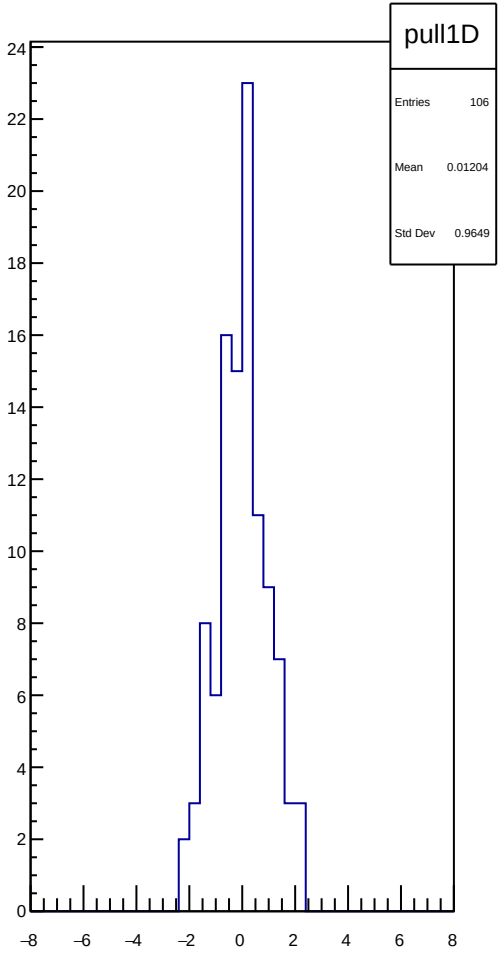

asym_atl1r2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
3.5
3
2.5
2
1.5
1
0.5
χ² / ndf 6.829e+05 / 105
p0 3.56e−10 ± 3.076e−13

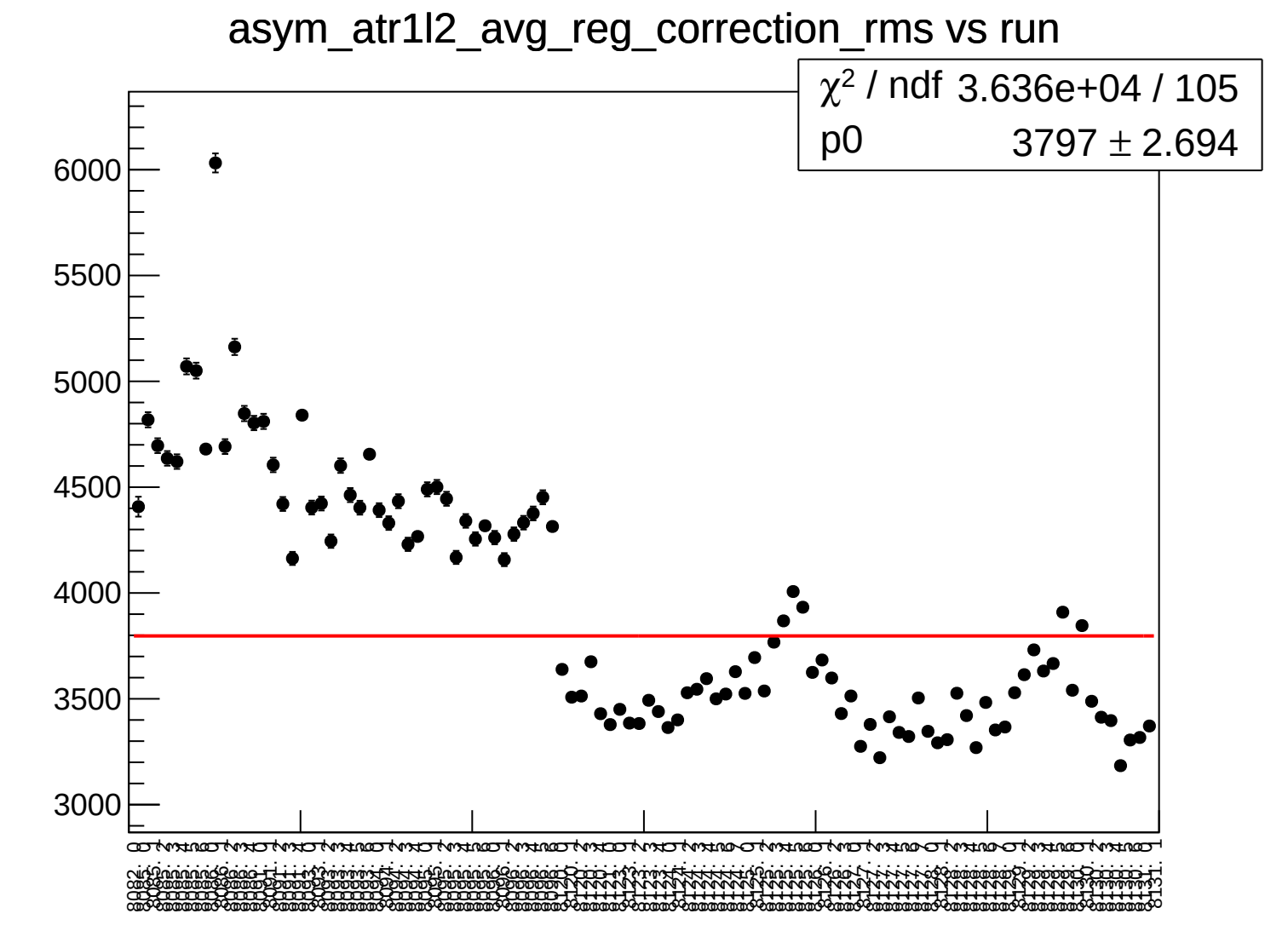

reg_asym_atr1l2_avg_mean vs run
χ² / ndf 94.63 / 105
p0 −2578 ± 1667
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean −817.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

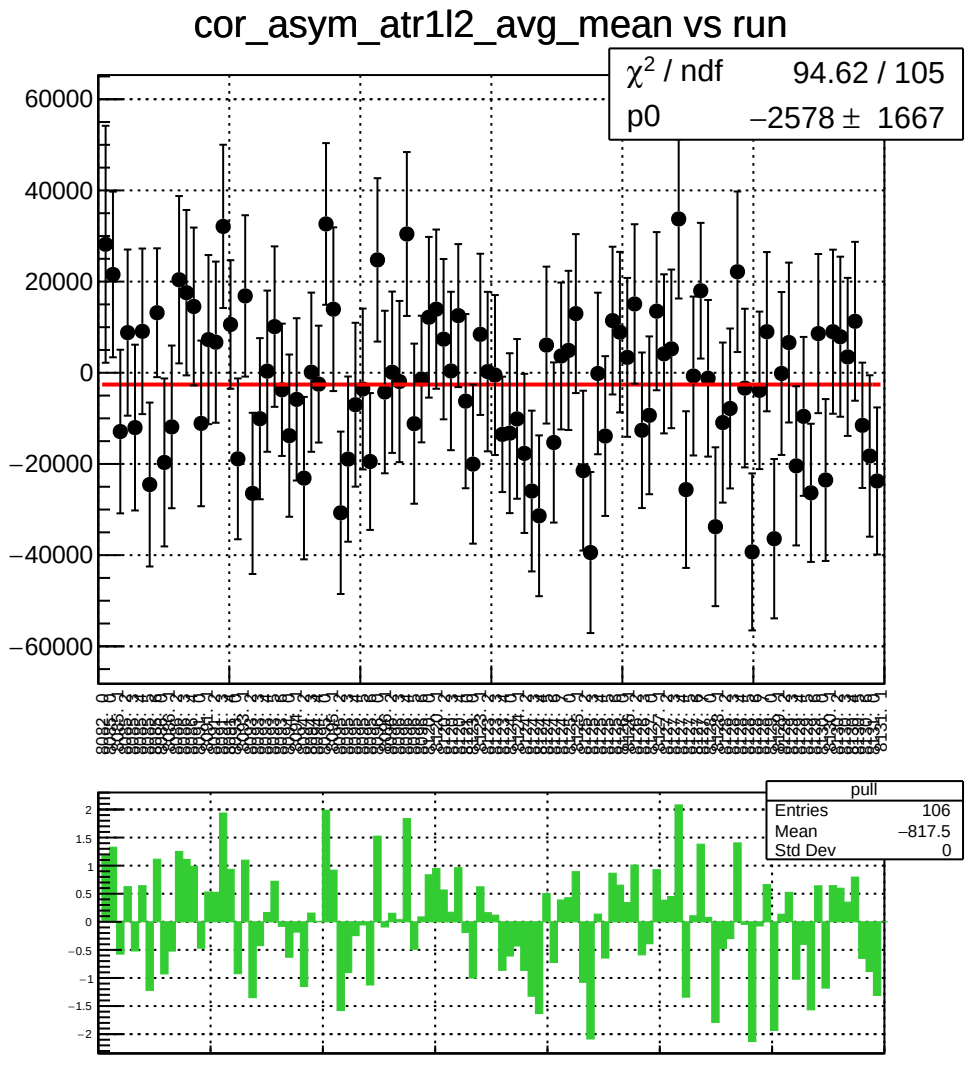

pull1D
Entries 106
Mean 0.006024
Std Dev 0.9448
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

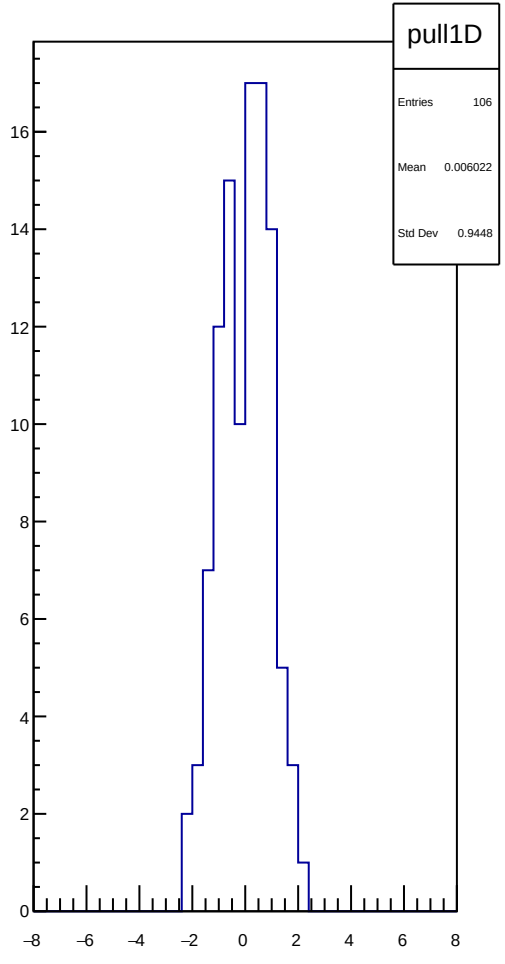

reg_asym_atr1l2_avg_rms vs run
$\chi^2$ / ndf 549.1 / 105
p0 1677 ± 1.179
1780
1760
1740
1720
1700
1680
1660
1640
1620

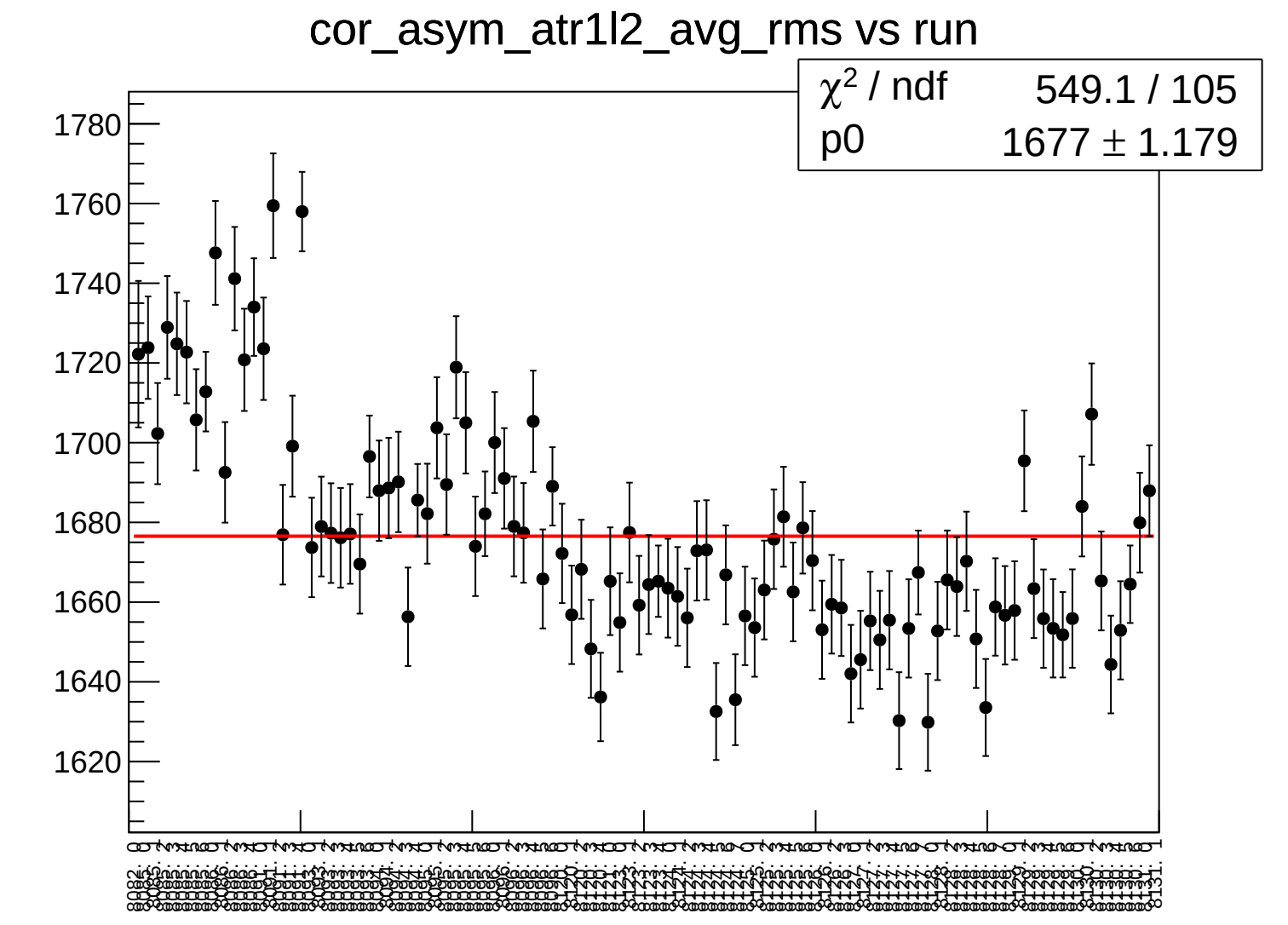

asym_atr1l2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 98.7 / 105
p0 6250 ± 3810
200
150
100
50
0
−50
−100
−150
pull
Entries 106
Mean −190.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

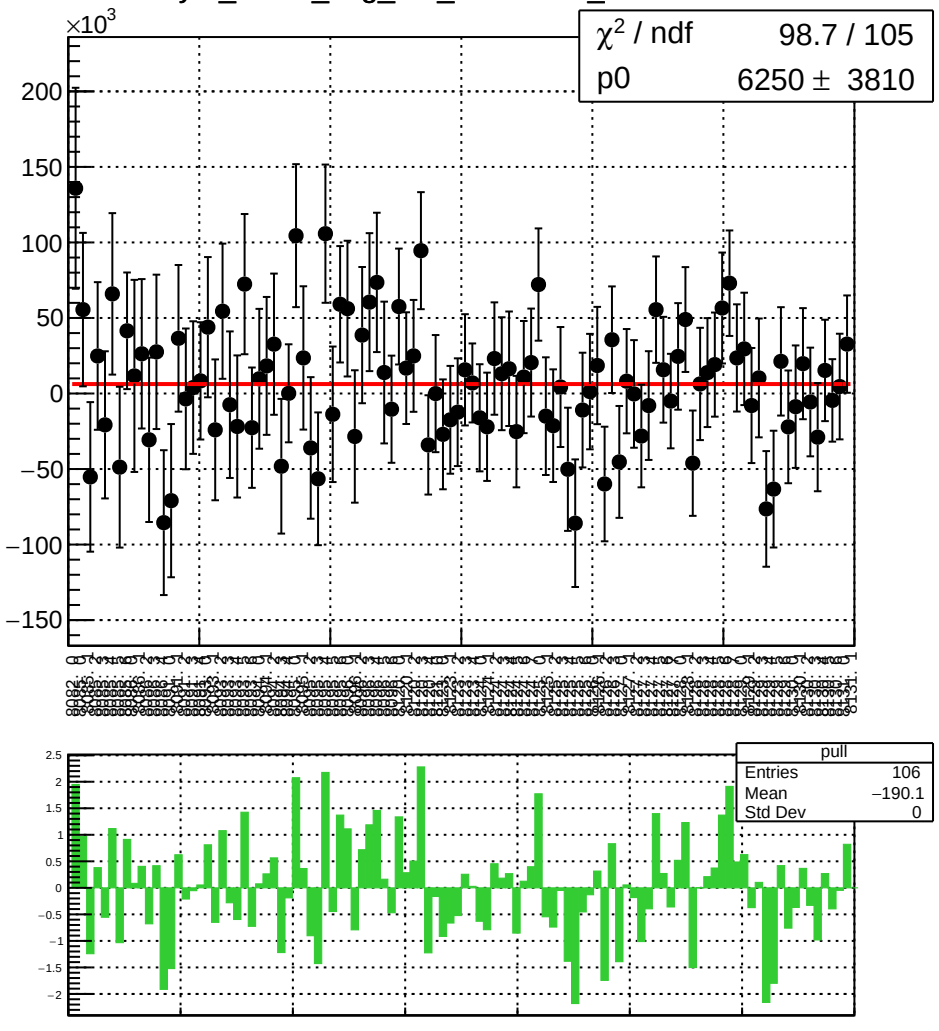

pull1D
Entries 106
Mean 0.01204
Std Dev 0.9649
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

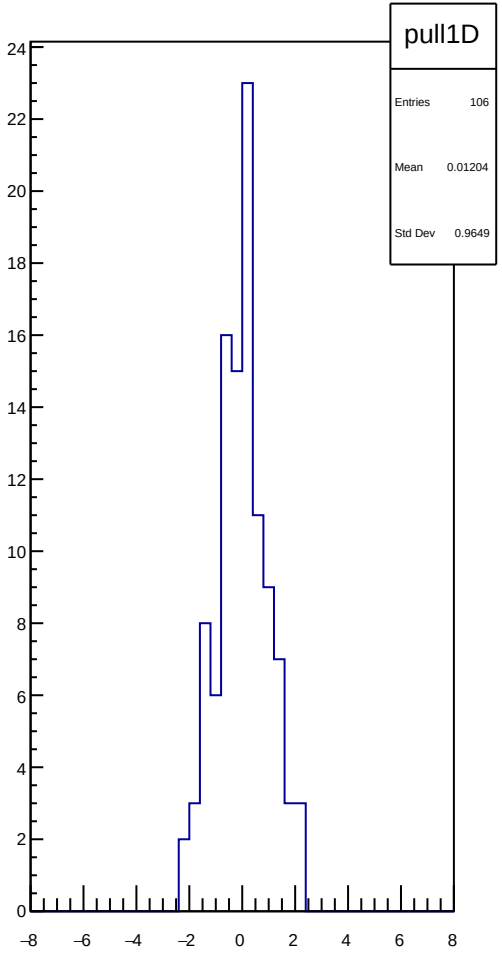

asym_atr1l2_avg_reg_correction_rms vs run
χ² / ndf 3.636e+04 / 105
p0 3797 ± 2.694
6000
5500
5000
4500
4000
3500
3000

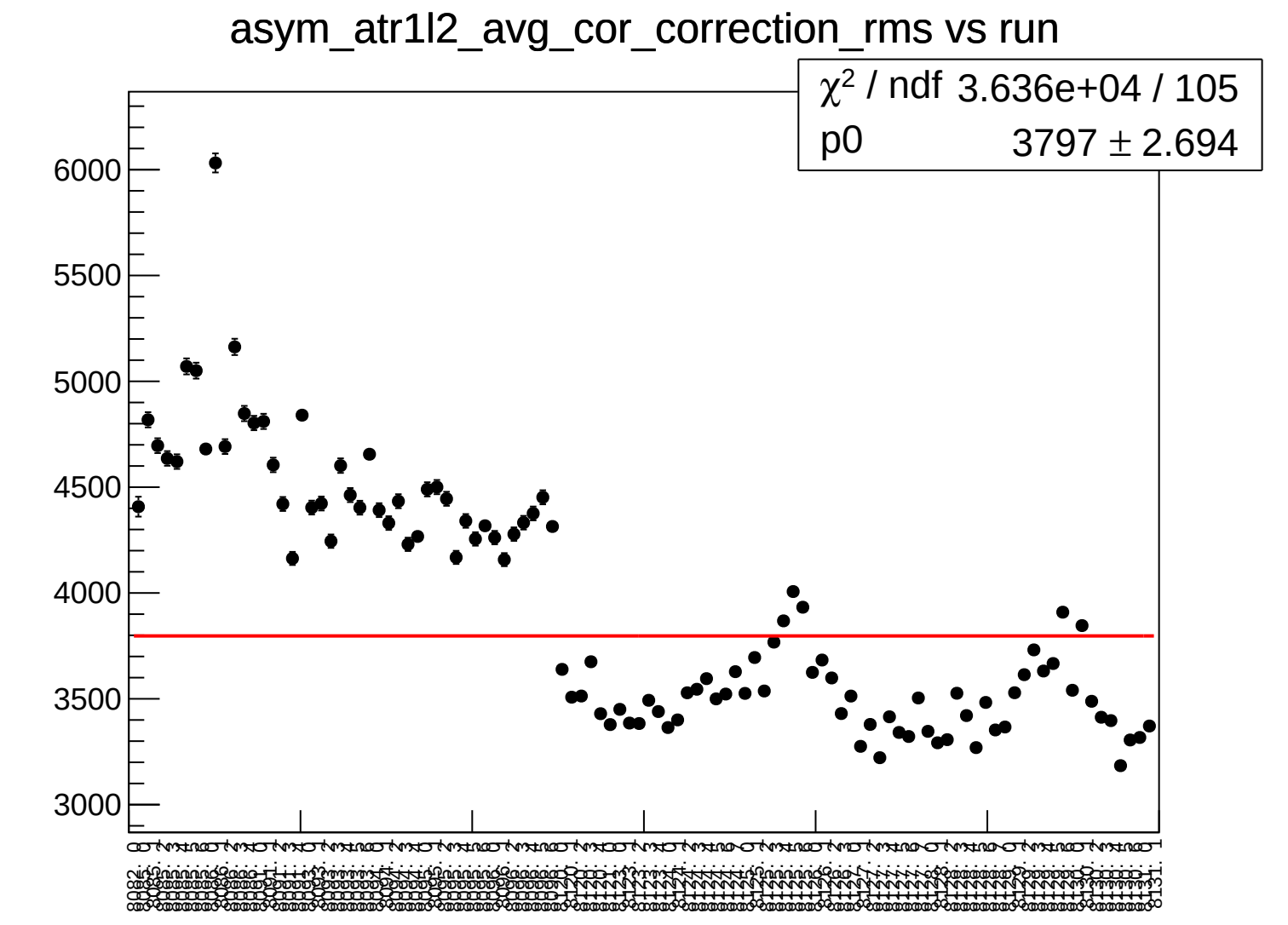

cor_asym_atr1l2_avg_mean vs run
χ² / ndf 94.62 / 105
p0 −2578 ± 1667
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean −817.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

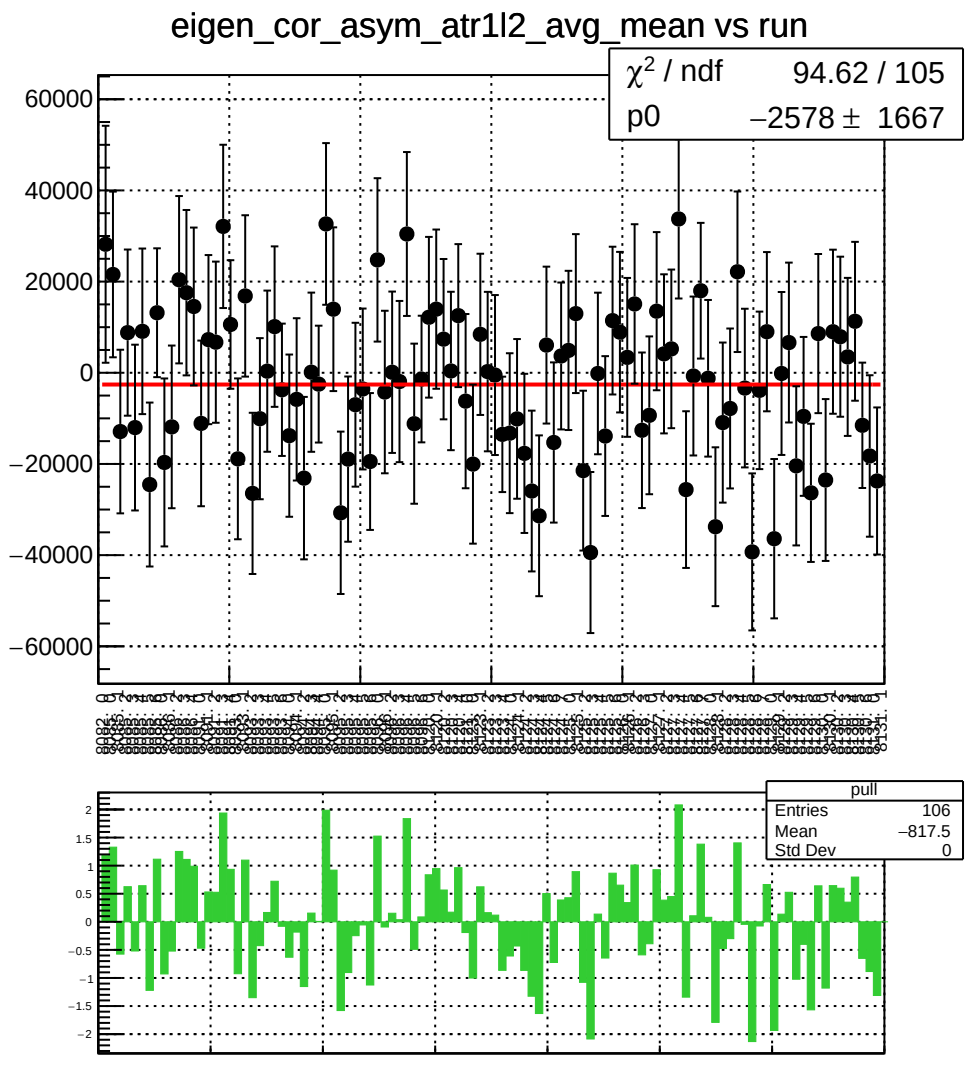

pull1D
Entries 106
Mean 0.006022
Std Dev 0.9448
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

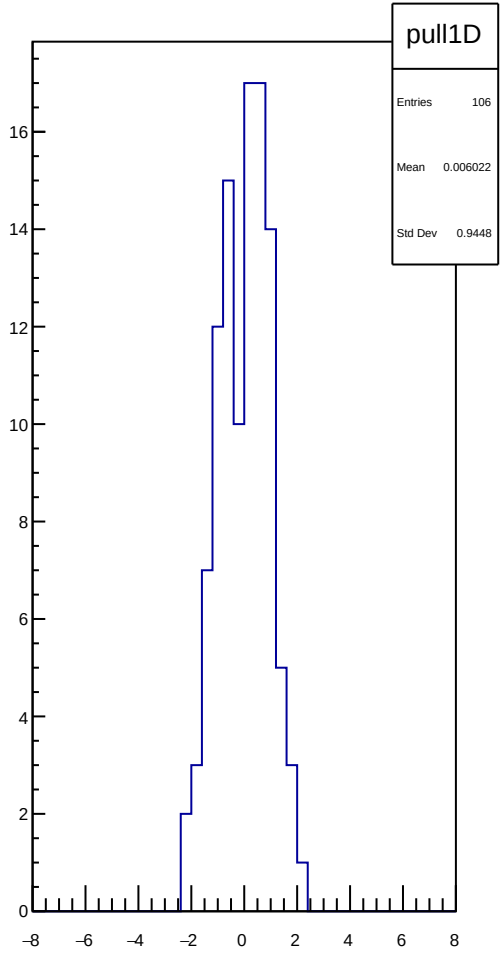

cor_asym_atr1l2_avg_rms vs run
$\chi^2$ / ndf 549.1 / 105
p0 1677 ± 1.179
1780
1760
1740
1720
1700
1680
1660
1640
1620


asym_atr1l2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 98.7 / 105
p0 6250 ± 3810
pull
Entries 106
Mean −190.1
Std Dev 0

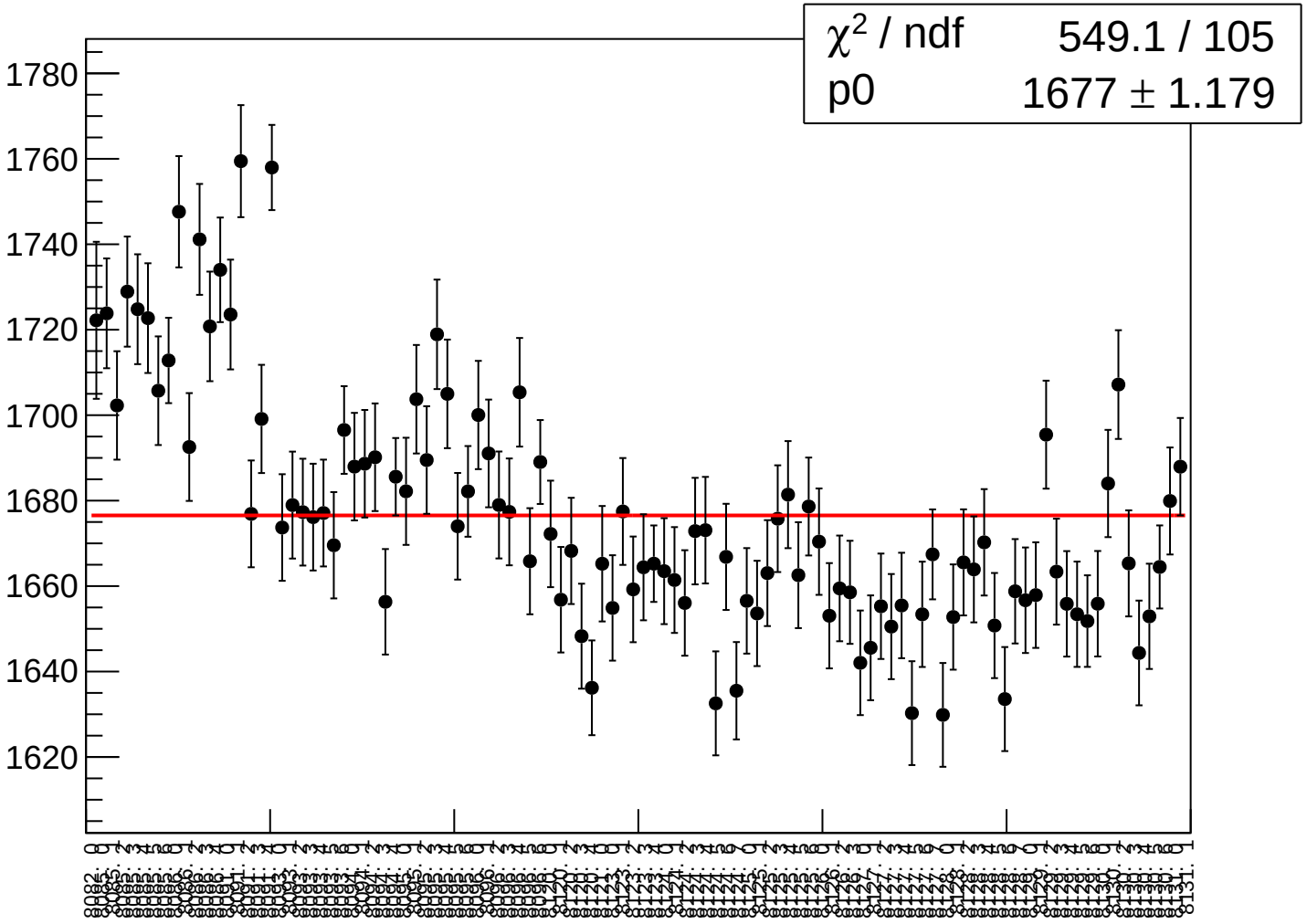

pull1D
Entries 106
Mean 0.01204
Std Dev 0.9649

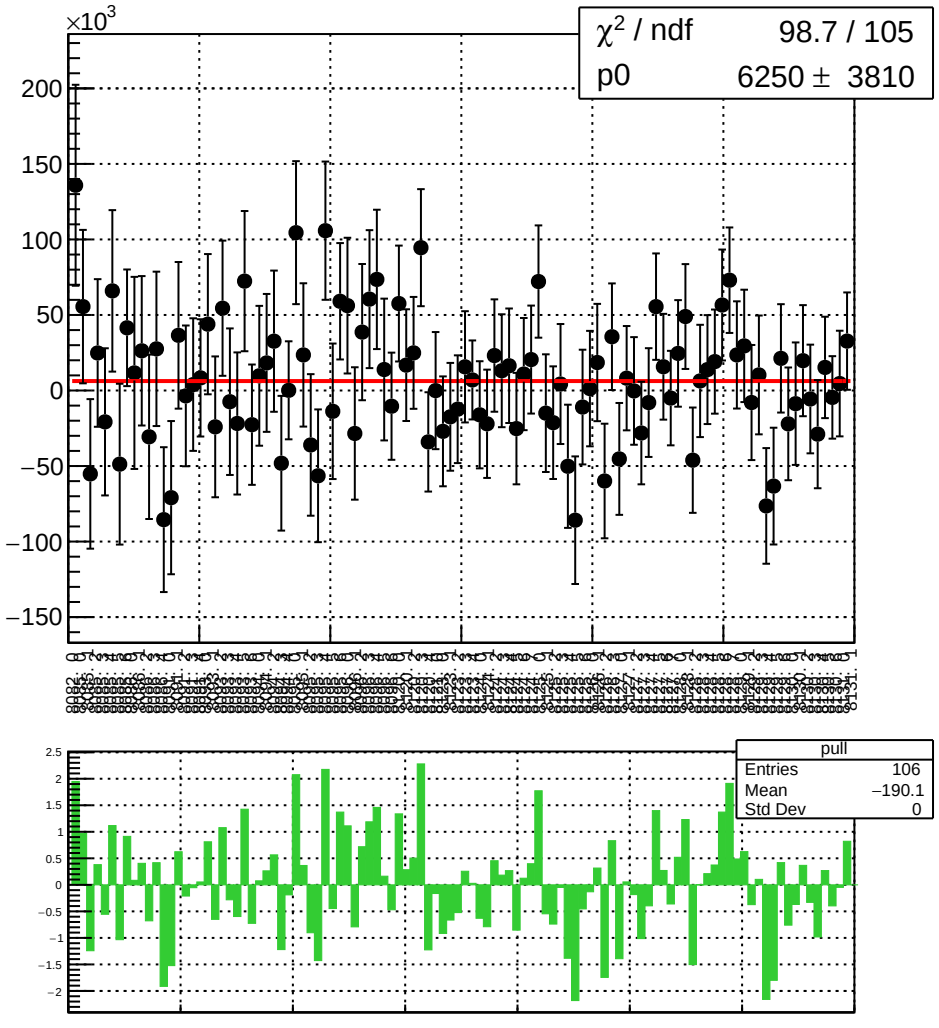

asym_atr1l2_avg_cor_correction_rms vs run
χ² / ndf 3.636e+04 / 105
p0 3797 ± 2.694
6000
5500
5000
4500
4000
3500
3000

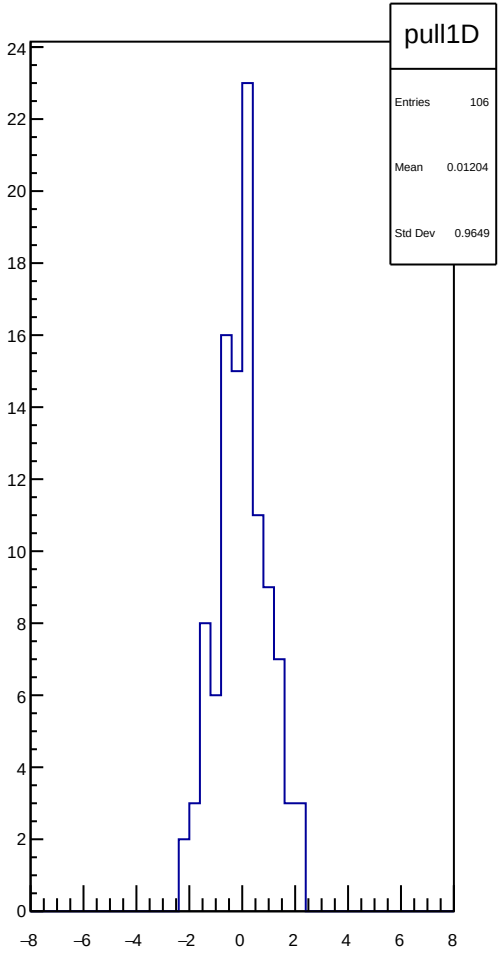

eigen_cor_asym_atr1l2_avg_mean vs run
χ² / ndf 94.62 / 105
p0 −2578 ± 1667
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean −817.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

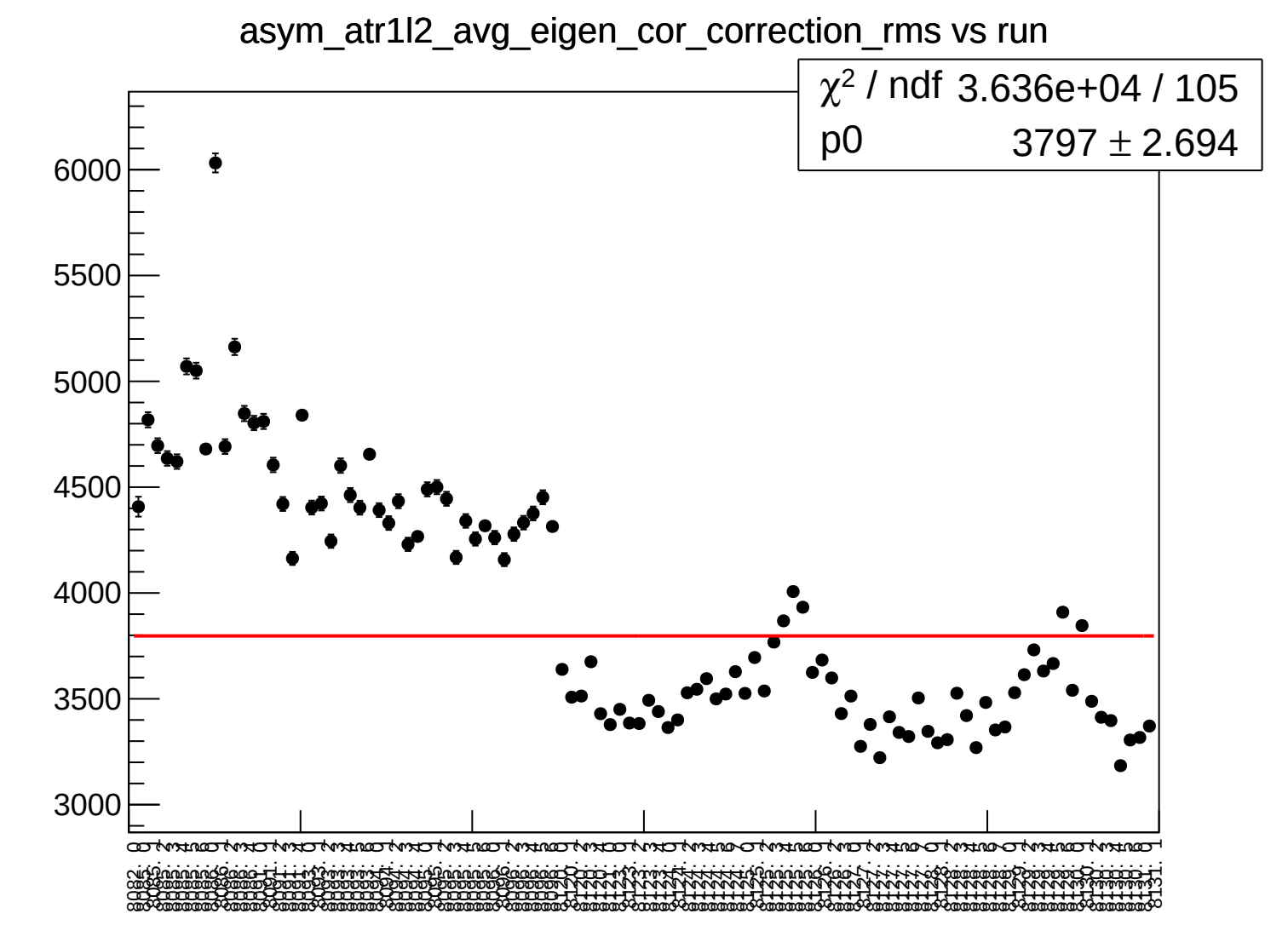

pull1D
Entries 106
Mean 0.006022
Std Dev 0.9448
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

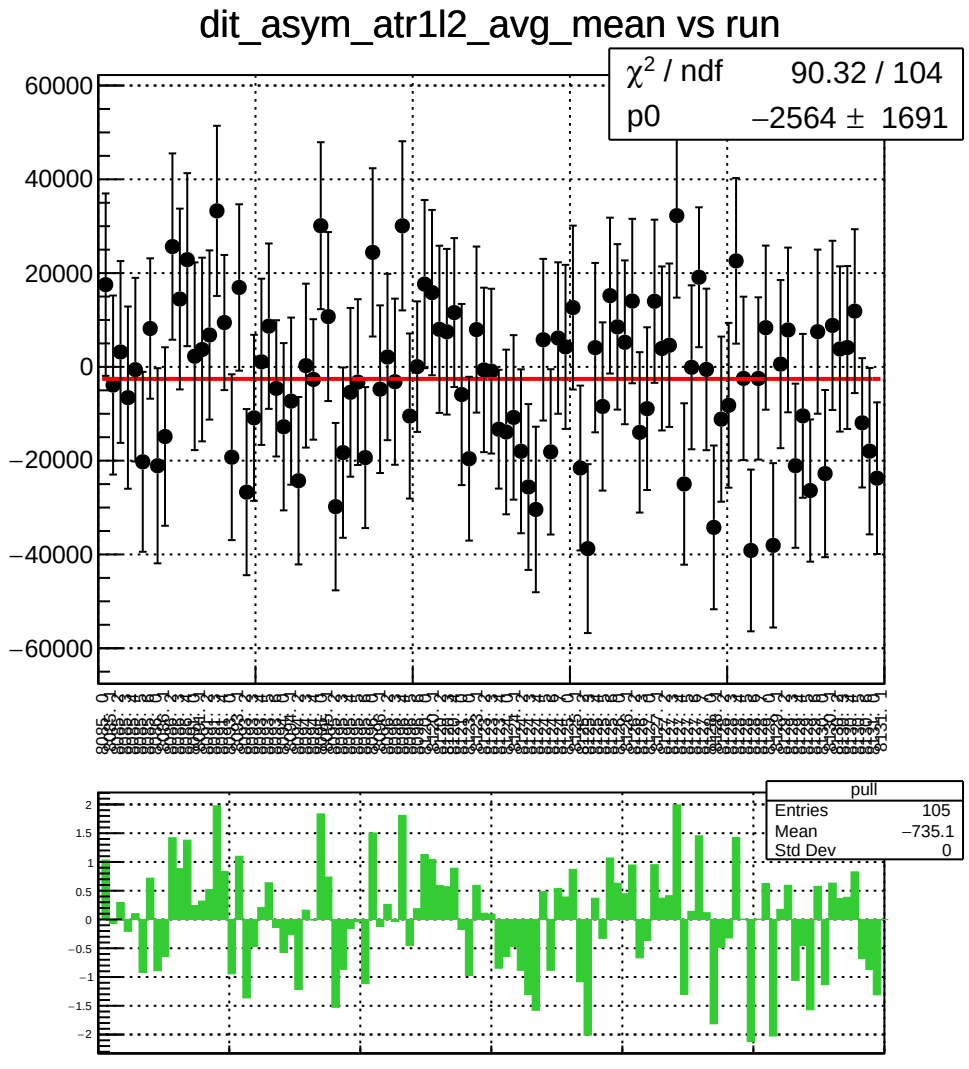
# eigen_cor_asym_atr1l2_avg_rms vs run

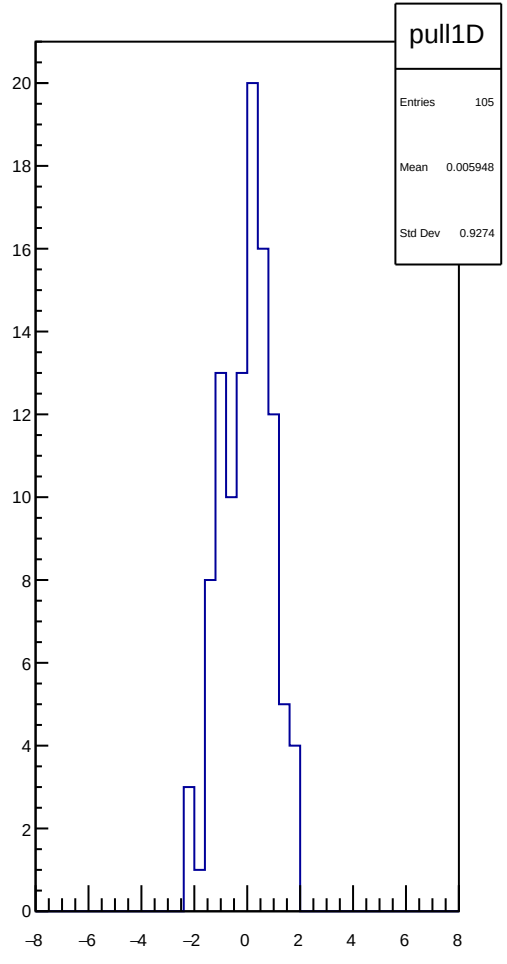


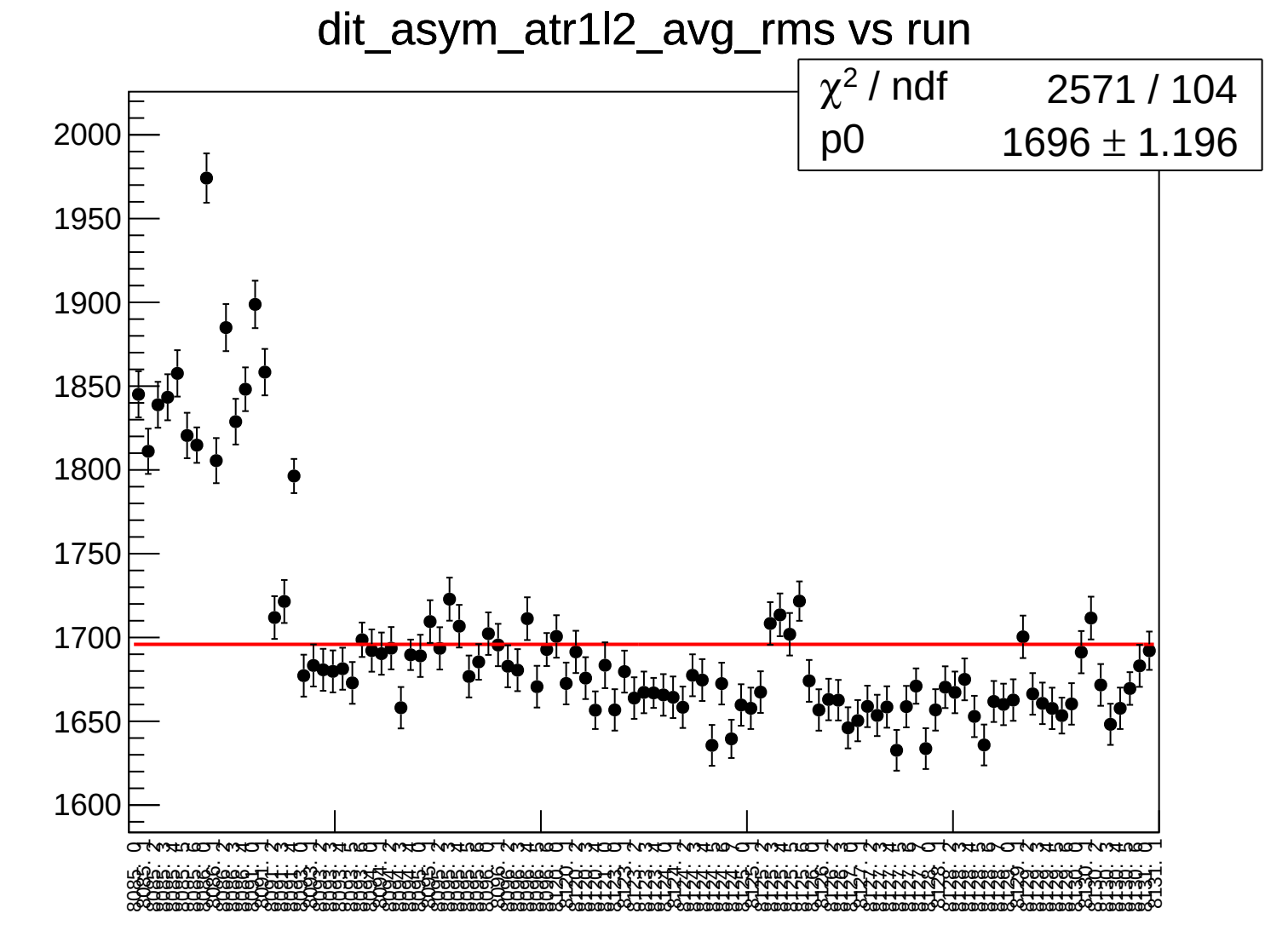

asym_atr1l2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 98.7 / 105
p0 6250 ± 3810
200
150
100
50
0
−50
−100
−150
pull
Entries 106
Mean −190.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

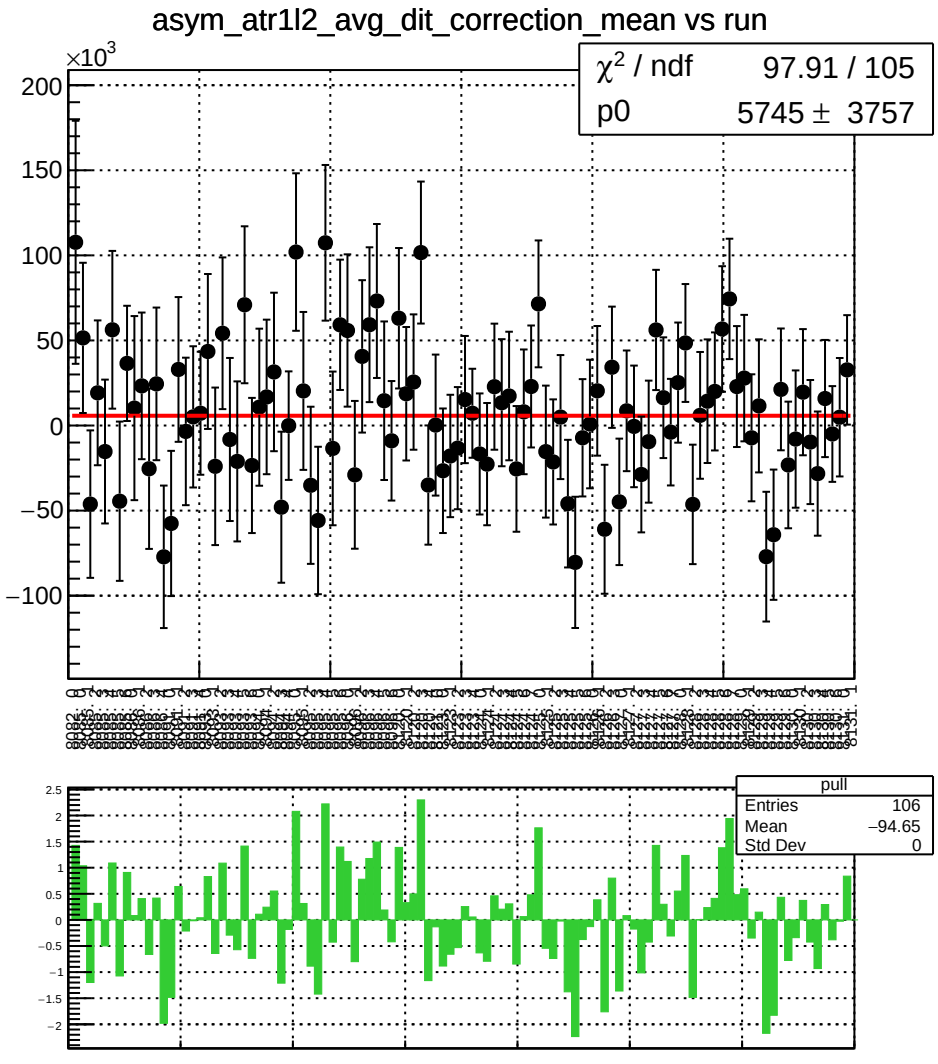

pull1D
Entries 106
Mean 0.01204
Std Dev 0.9649
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

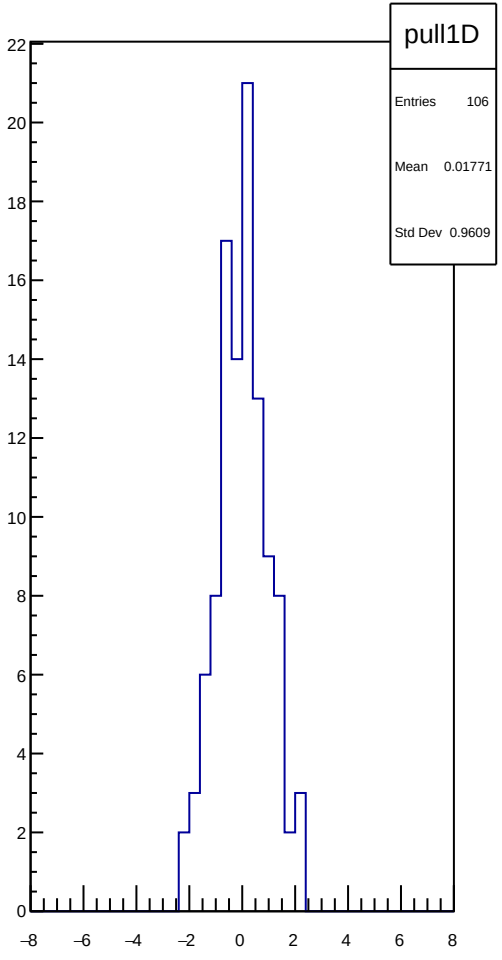

asym_atr1l2_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.636e+04 / 105
p0 3797 ± 2.694
6000
5500
5000
4500
4000
3500
3000

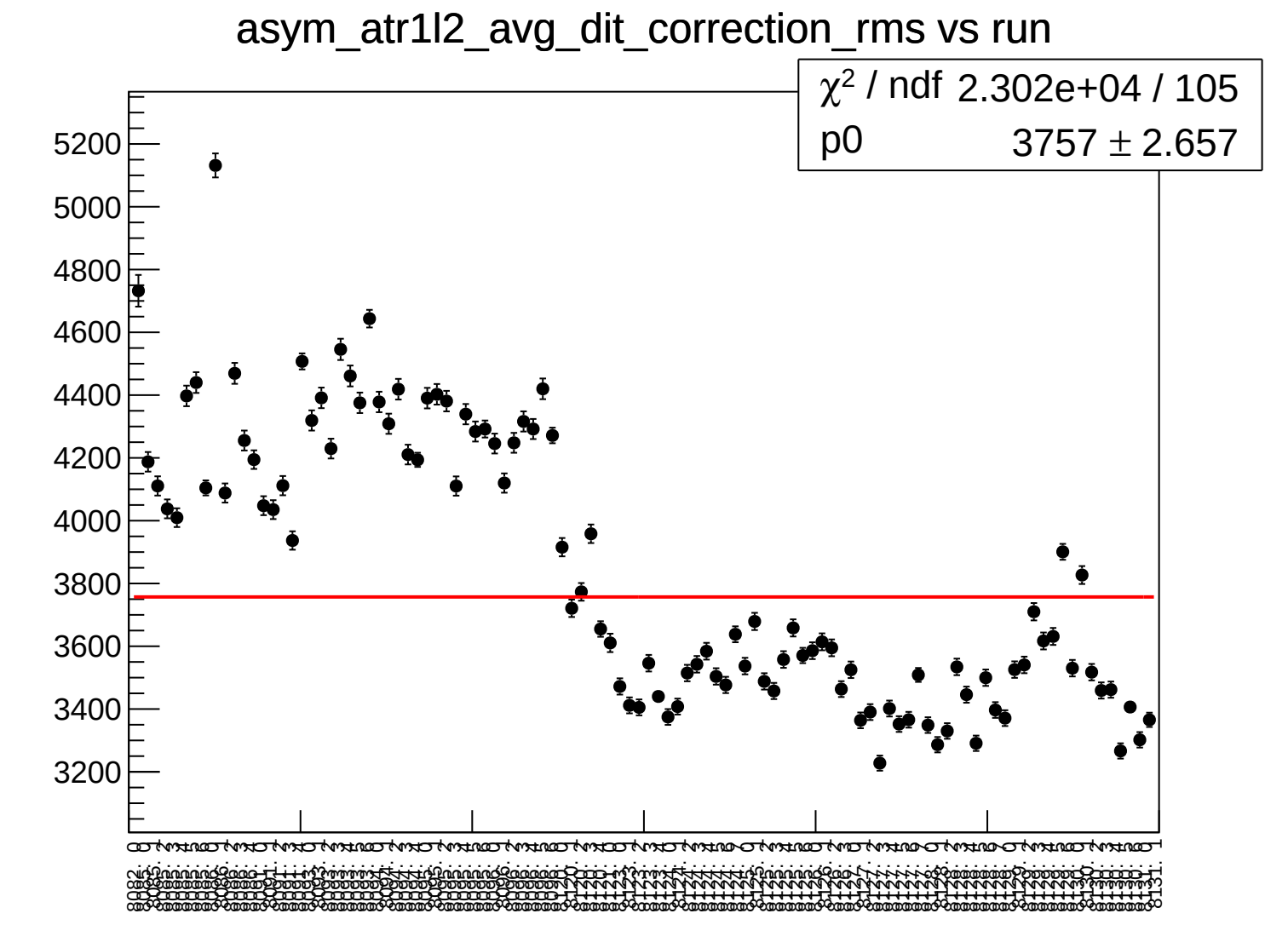

dit_asym_atr1l2_avg_mean vs run
χ² / ndf 90.32 / 104
p0 −2564 ± 1691
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean −735.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

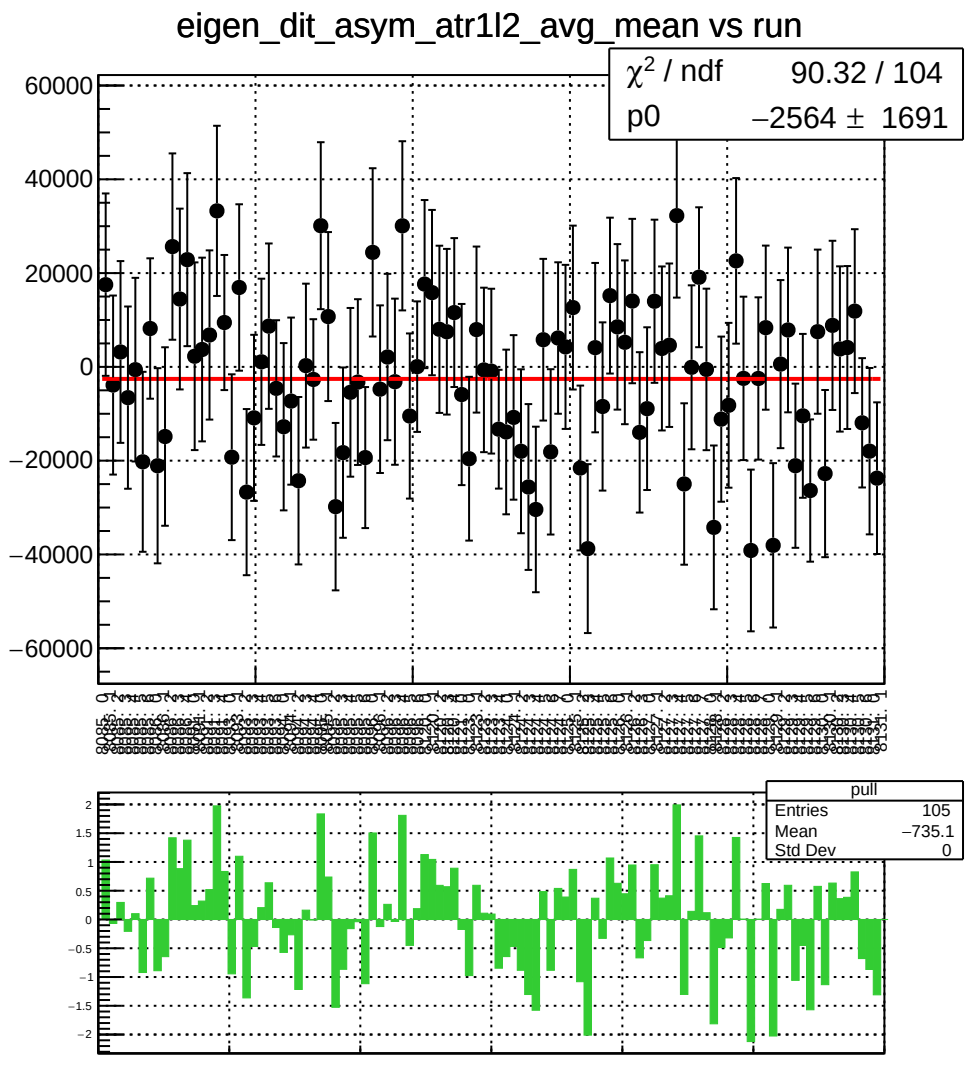

pull1D
Entries 105
Mean 0.005948
Std Dev 0.9274
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

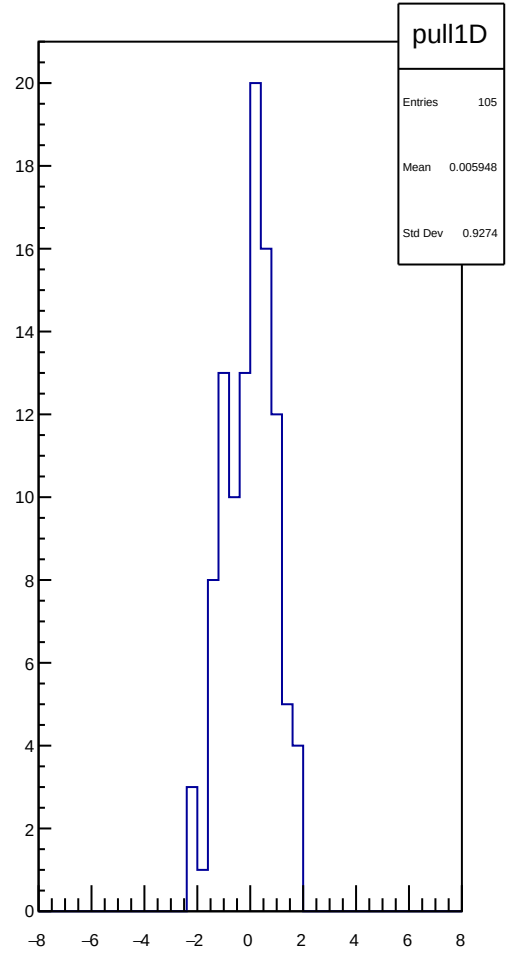

dit_asym_atr1l2_avg_rms vs run
χ² / ndf 2571 / 104
p0 1696 ± 1.196
2000
1950
1900
1850
1800
1750
1700
1650
1600

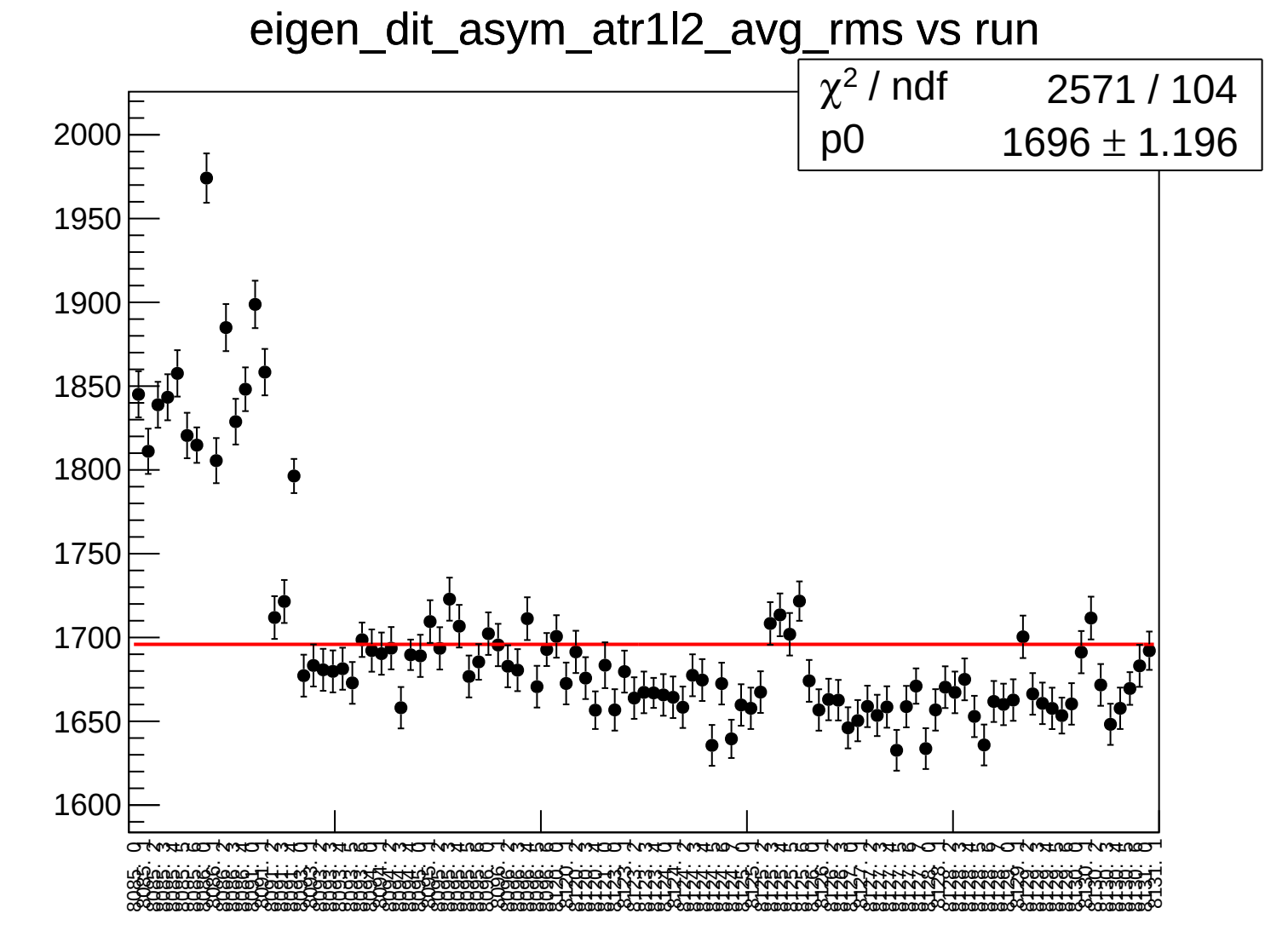

asym_atr1l2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 97.91 / 105
p0 5745 ± 3757
pull
Entries 106
Mean −94.65
Std Dev 0

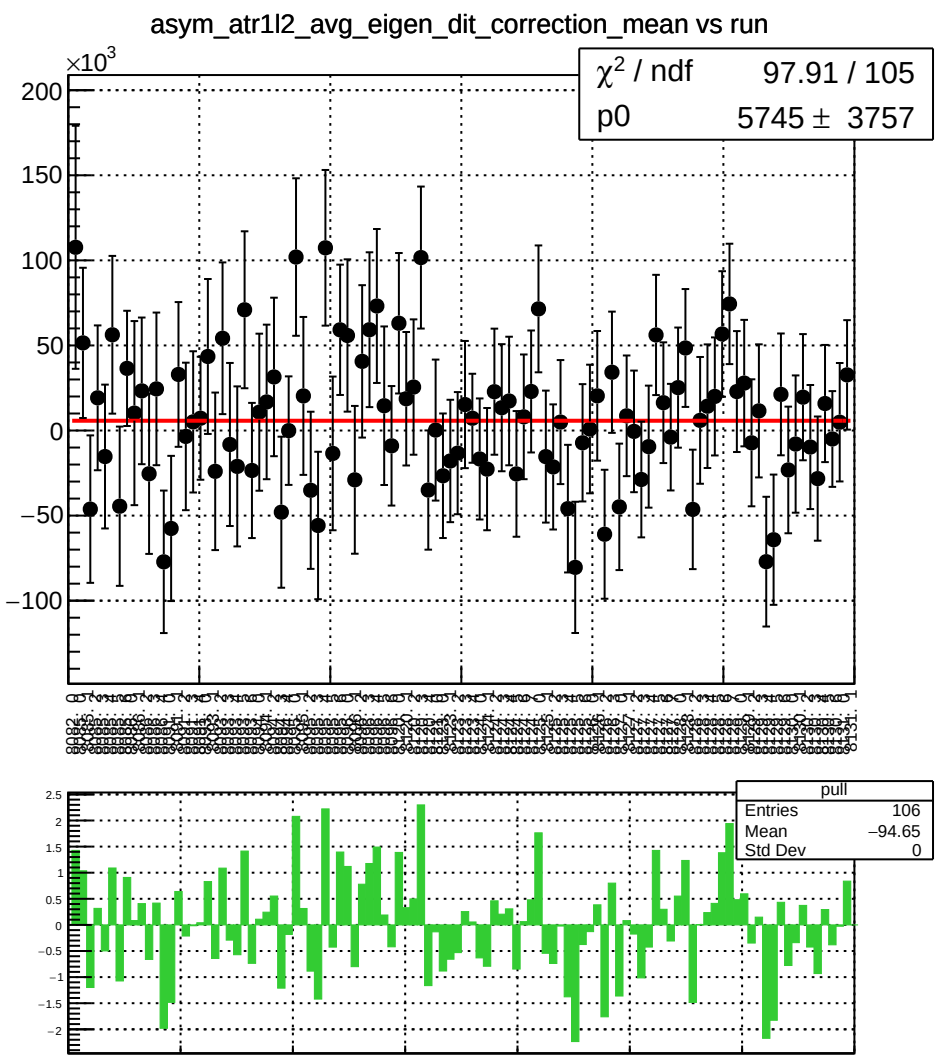

pull1D
Entries 106
Mean 0.01771
Std Dev 0.9609

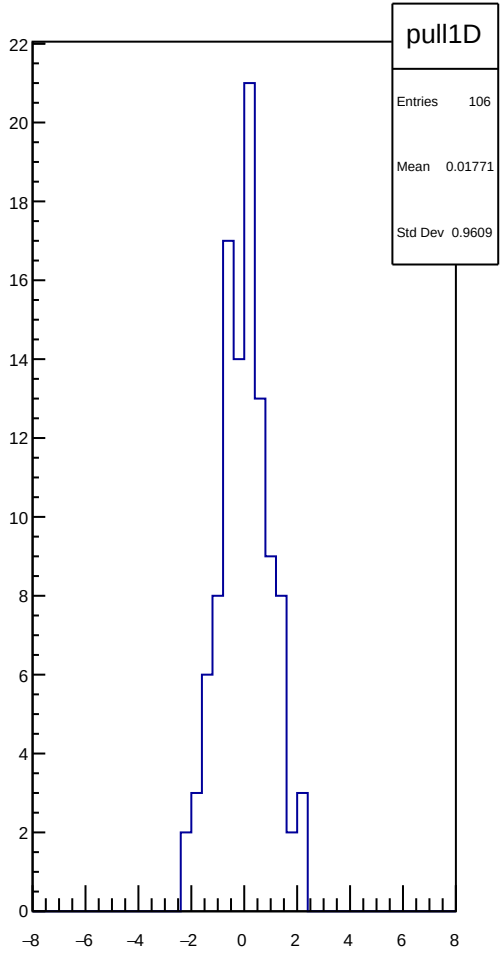

asym_atr1l2_avg_dit_correction_rms vs run
χ² / ndf 2.302e+04 / 105
p0 3757 ± 2.657
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

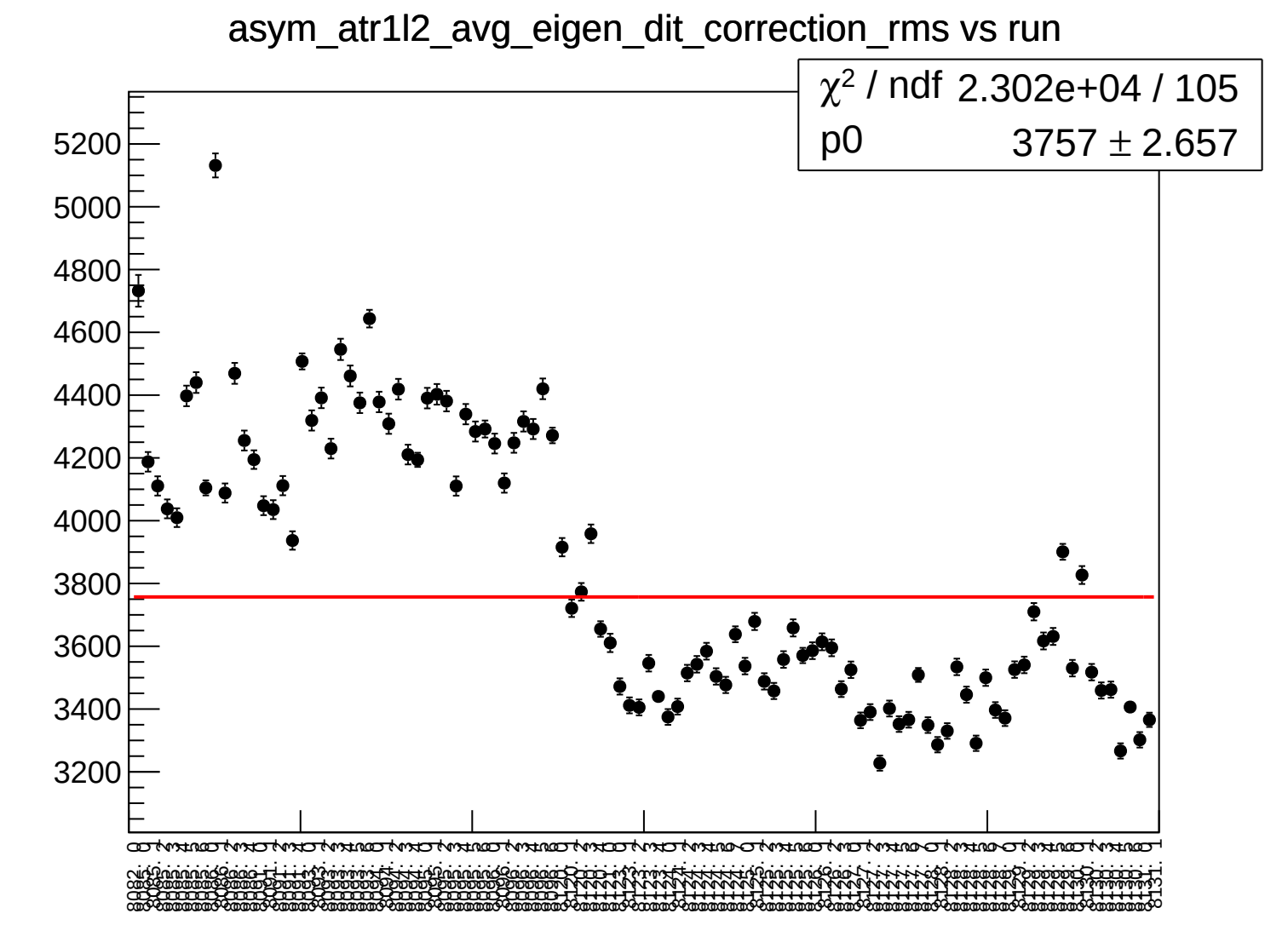

eigen_dit_asym_atr1l2_avg_mean vs run
χ² / ndf 90.32 / 104
p0 −2564 ± 1691
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean −735.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

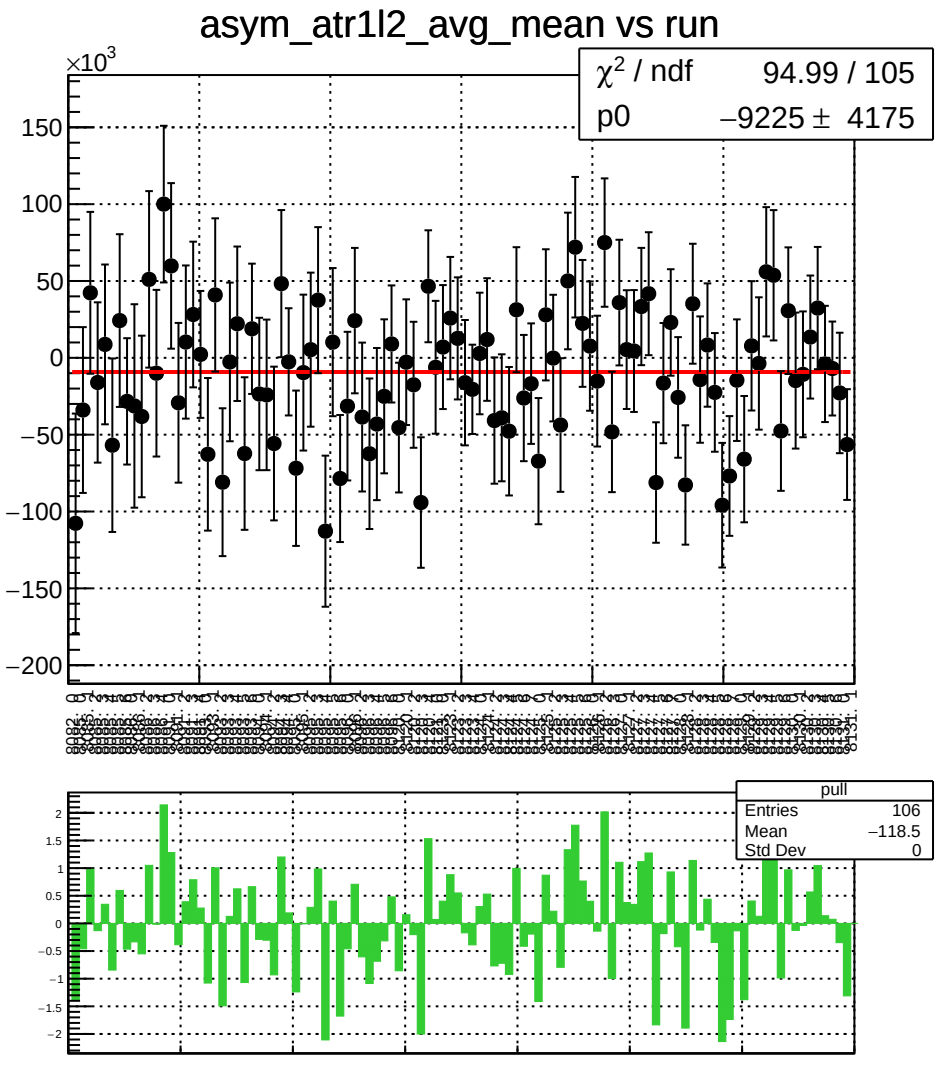

pull1D
Entries 105
Mean 0.005948
Std Dev 0.9274
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

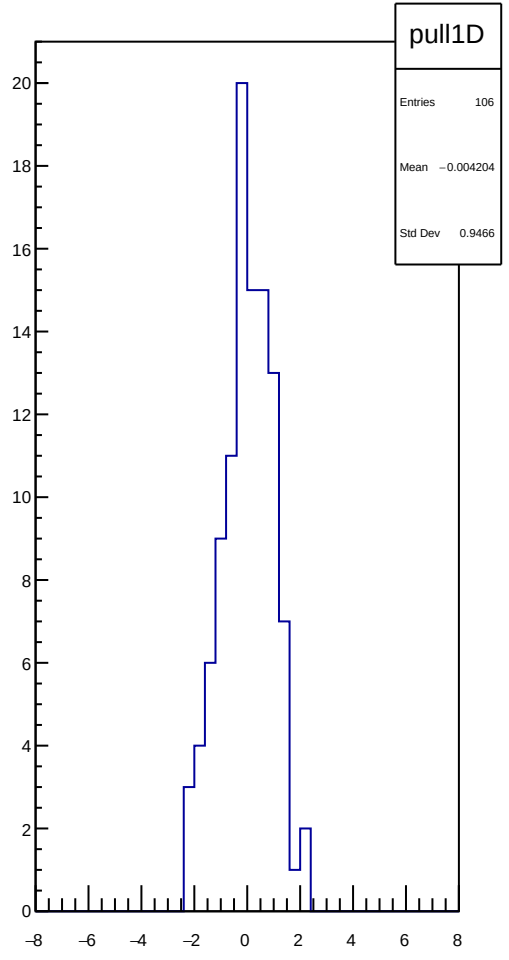

eigen_dit_asym_atr1l2_avg_rms vs run
χ² / ndf 2571 / 104
p0 1696 ± 1.196
2000
1950
1900
1850
1800
1750
1700
1650
1600

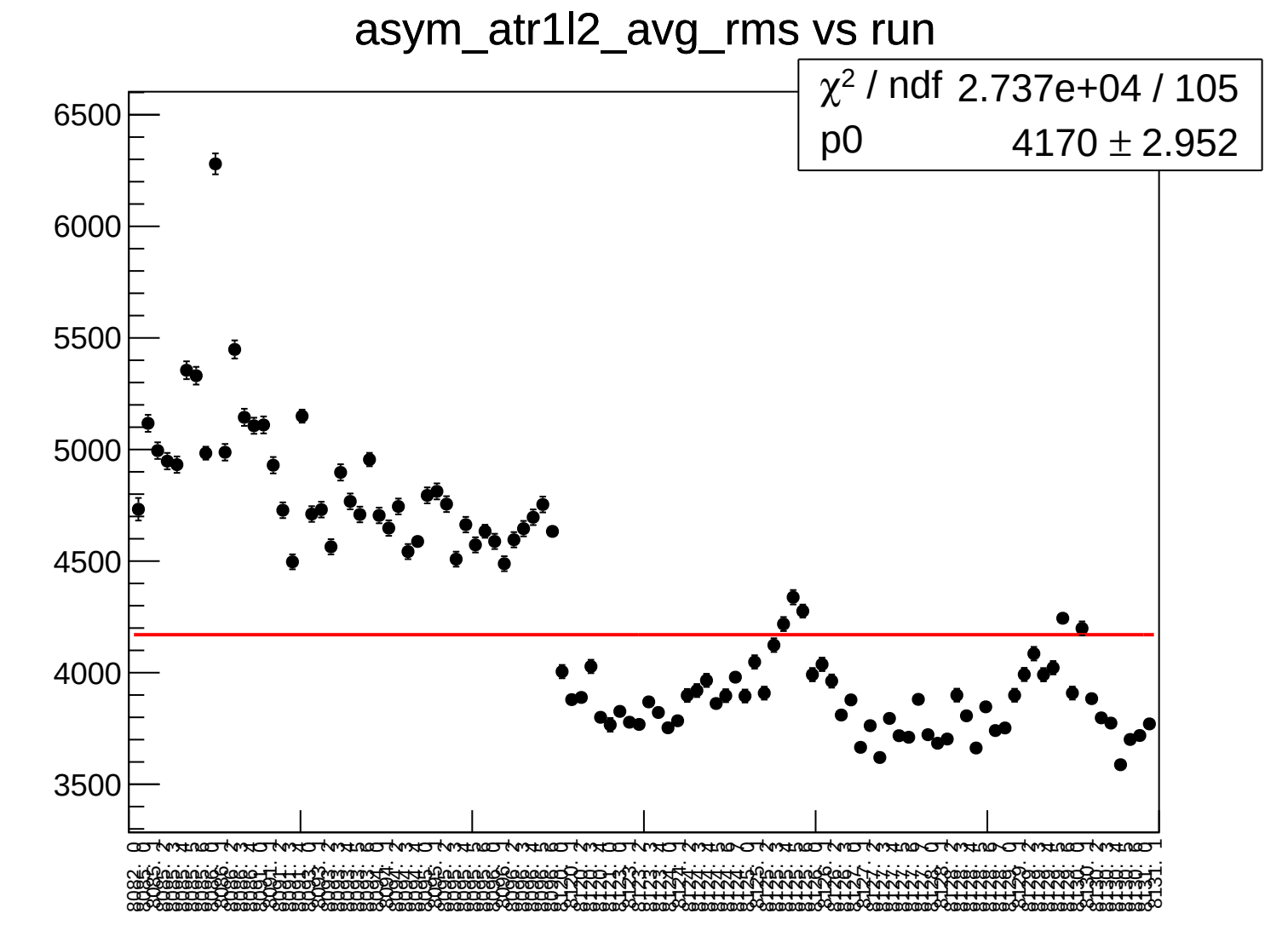

asym_atr1l2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 97.91 / 105
p0 5745 ± 3757
200
150
100
50
0
−50
−100
pull
Entries 106
Mean −94.65
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

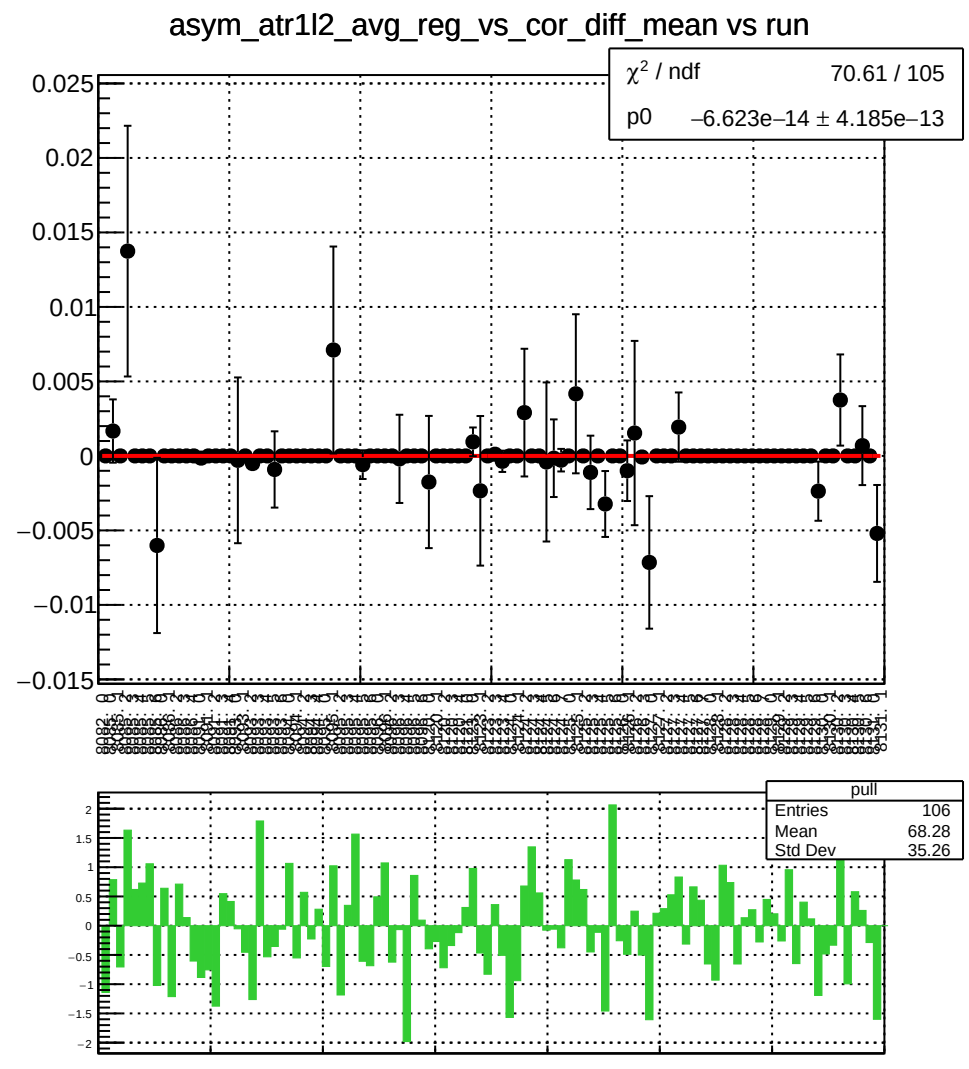

pull1D
Entries 106
Mean 0.01771
Std Dev 0.9609
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

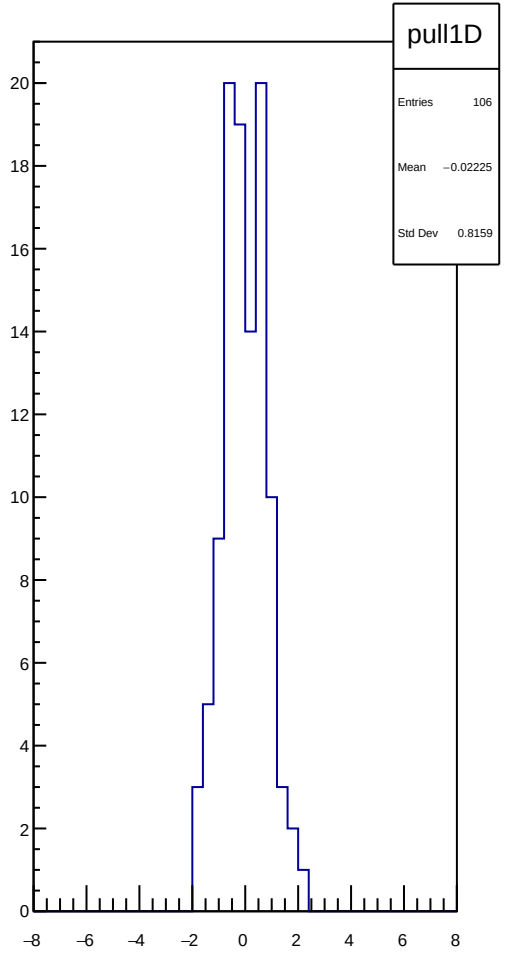

asym_atr1l2_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.302e+04 / 105
p0 3757 ± 2.657
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

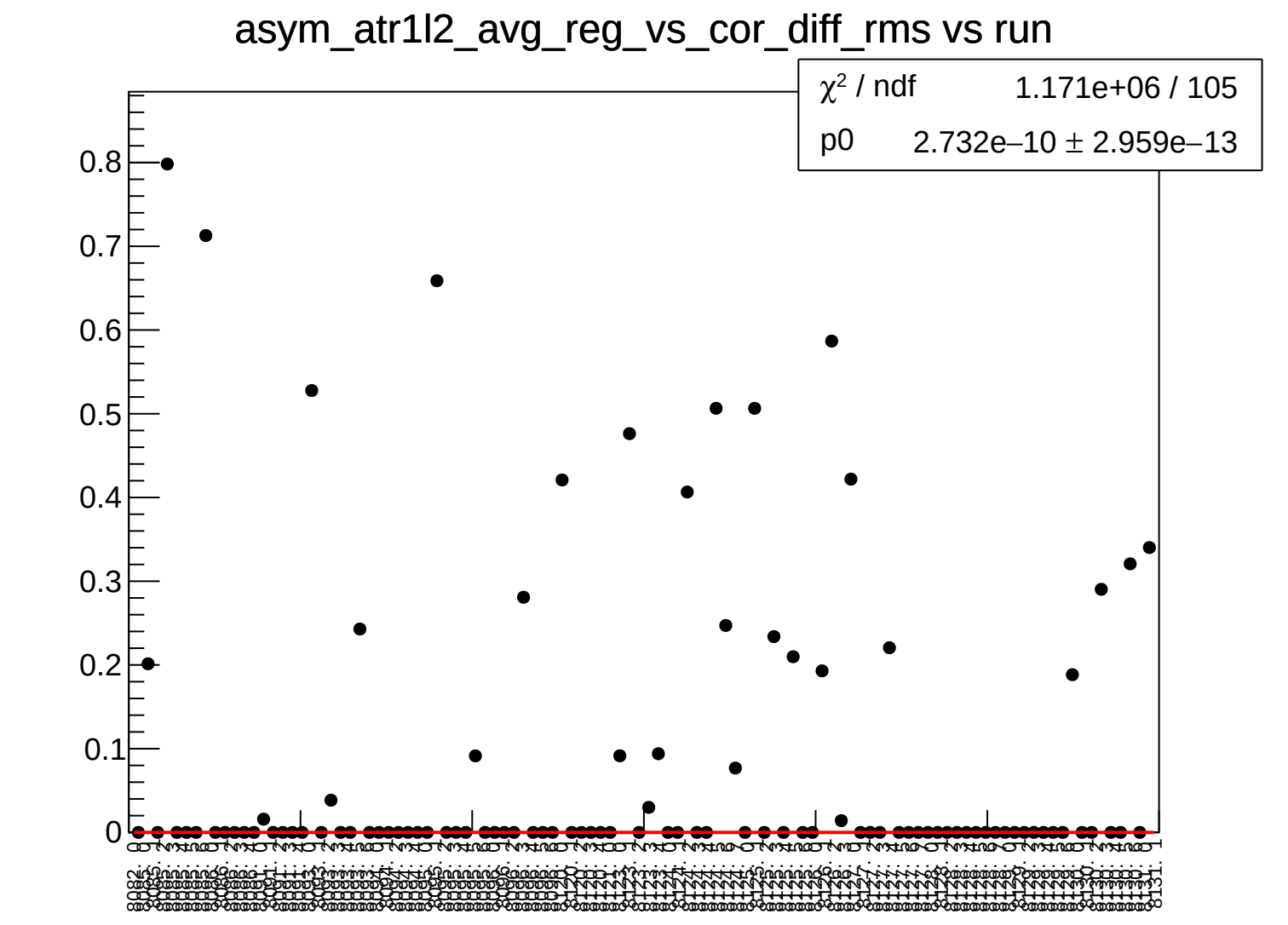

asym_atr1l2_avg_mean vs run
×10^3
χ^2 / ndf 94.99 / 105
p0 −9225 ± 4175
150
100
50
0
−50
−100
−150
−200
pull
Entries 106
Mean −118.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

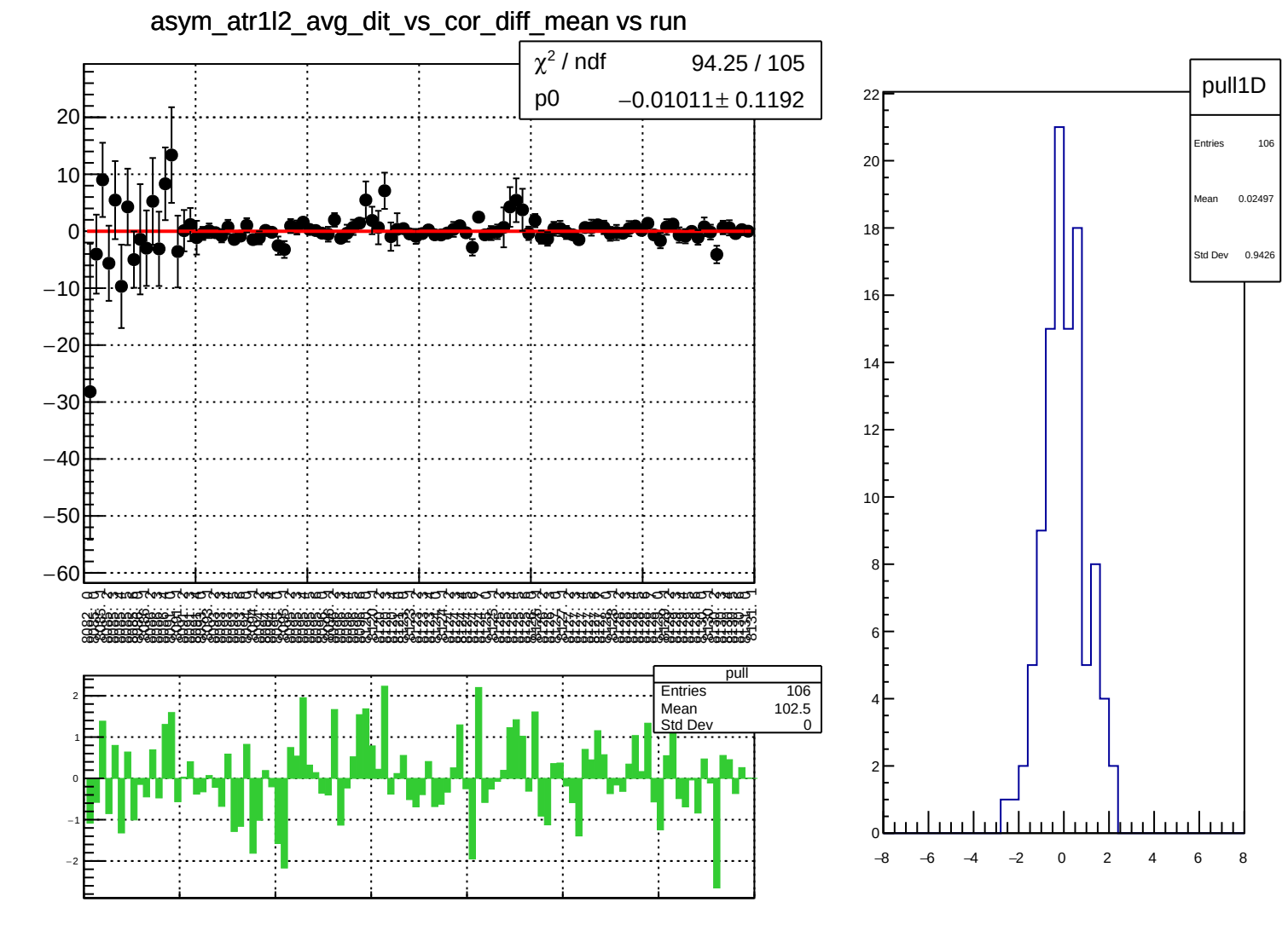

pull1D
Entries 106
Mean −0.004204
Std Dev 0.9466
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

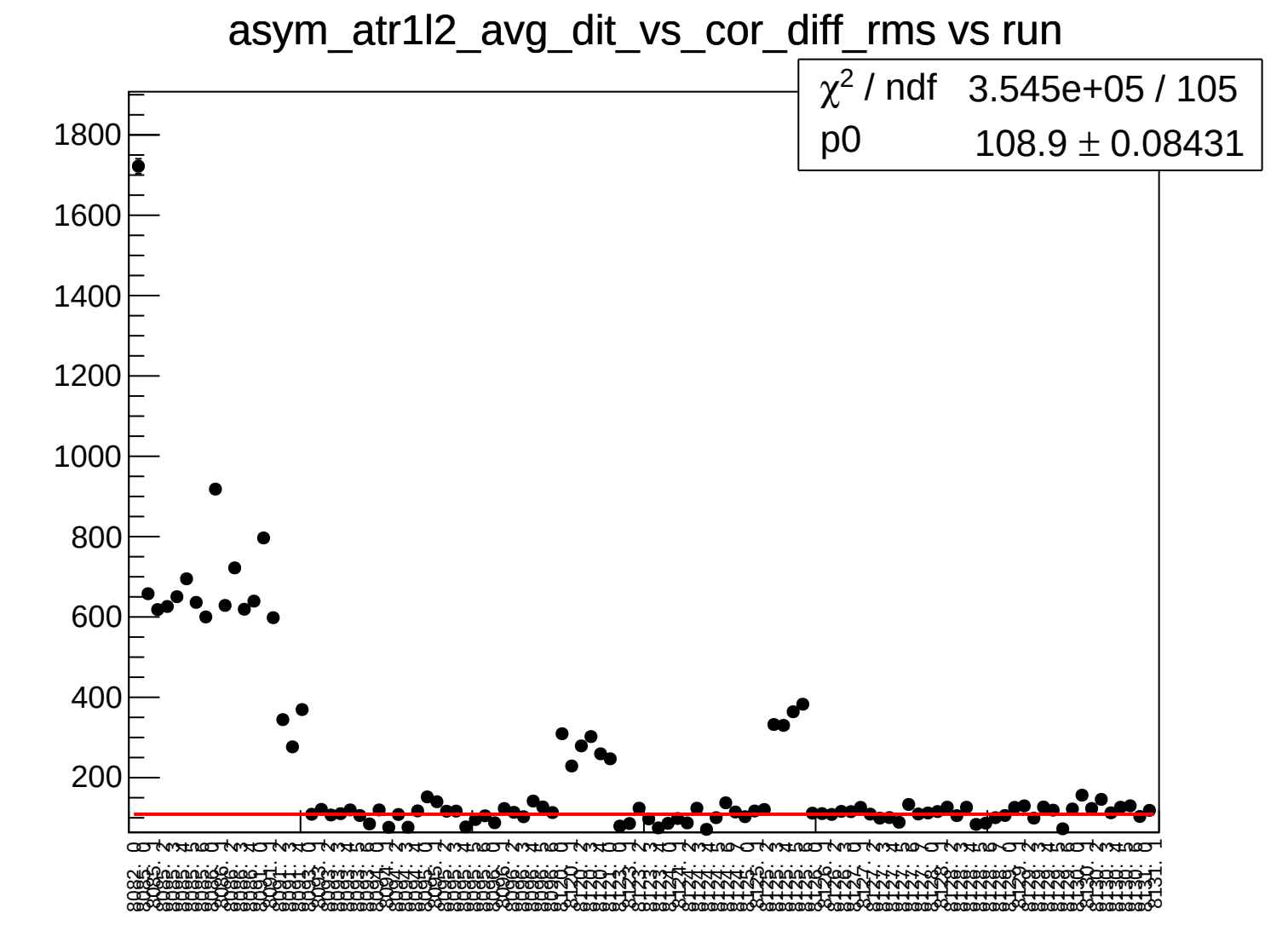

asym_atr1l2_avg_rms vs run
χ² / ndf 2.737e+04 / 105
p0 4170 ± 2.952
6500
6000
5500
5000
4500
4000
3500

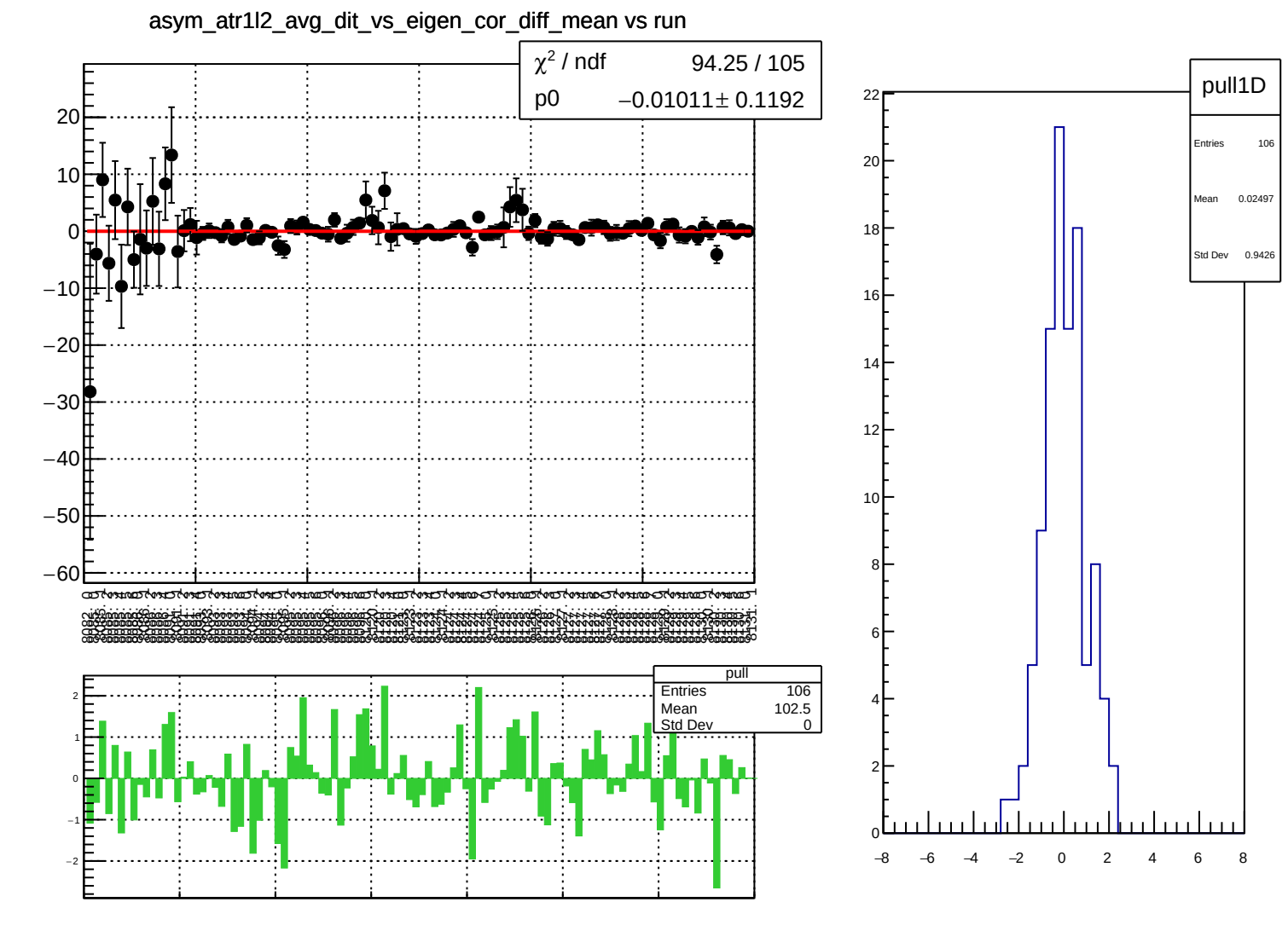

asym_atr1l2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 70.61 / 105
p0 −6.623e−14 ± 4.185e−13
pull
Entries 106
Mean 68.28
Std Dev 35.26

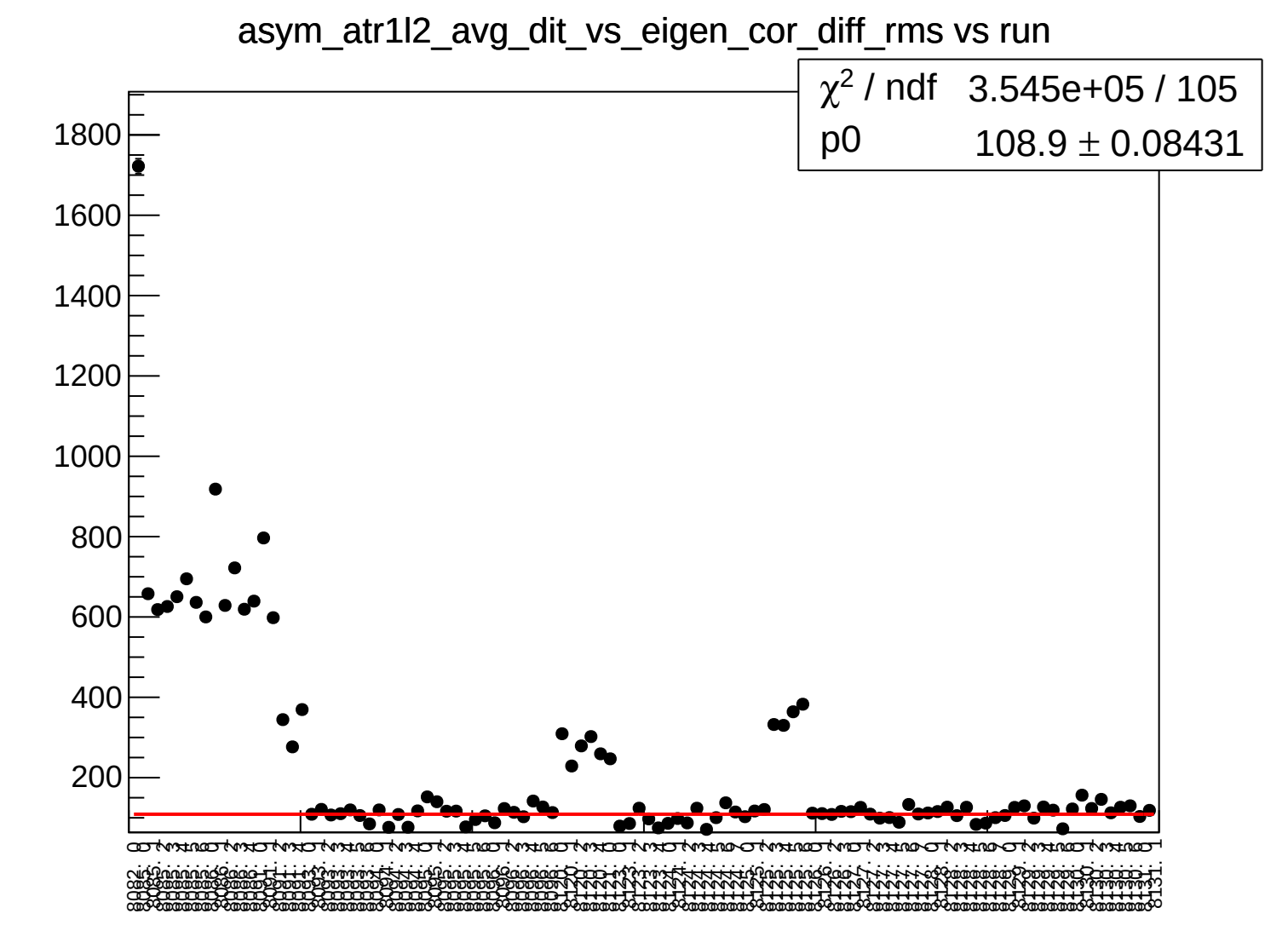

pull1D
Entries 106
Mean −0.02225
Std Dev 0.8159

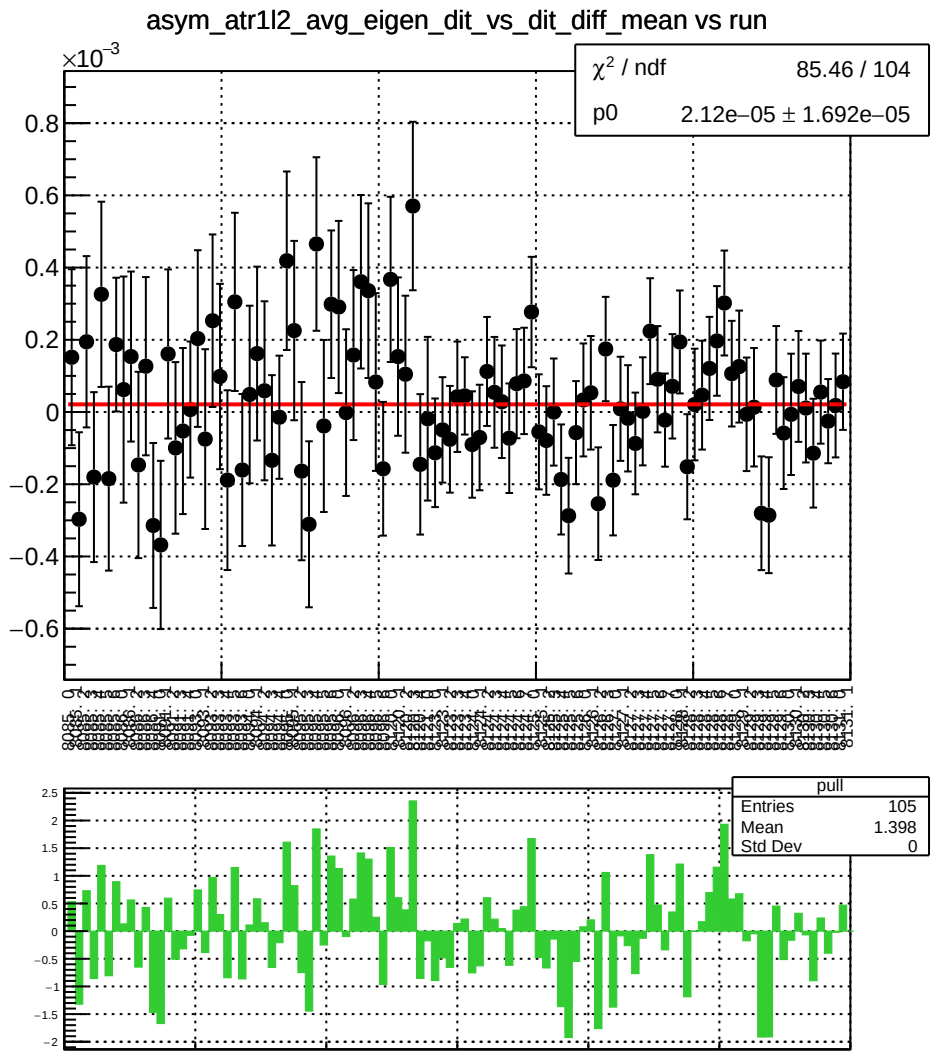

asym_atr1l2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.171e+06 / 105
p0 2.732e−10 ± 2.959e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

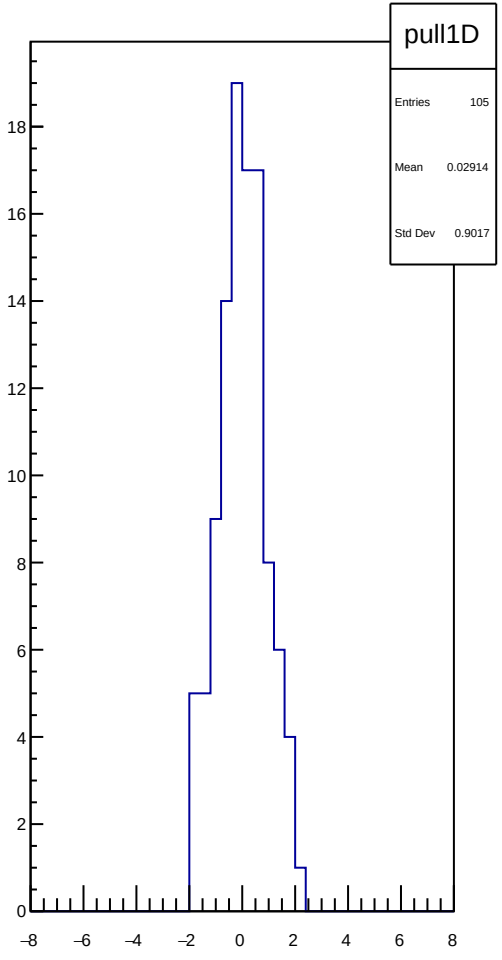

asym_atr1l2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 94.25 / 105
p0 −0.01011± 0.1192
pull
Entries 106
Mean 102.5
Std Dev 0
pull1D
Entries 106
Mean 0.02497
Std Dev 0.9426

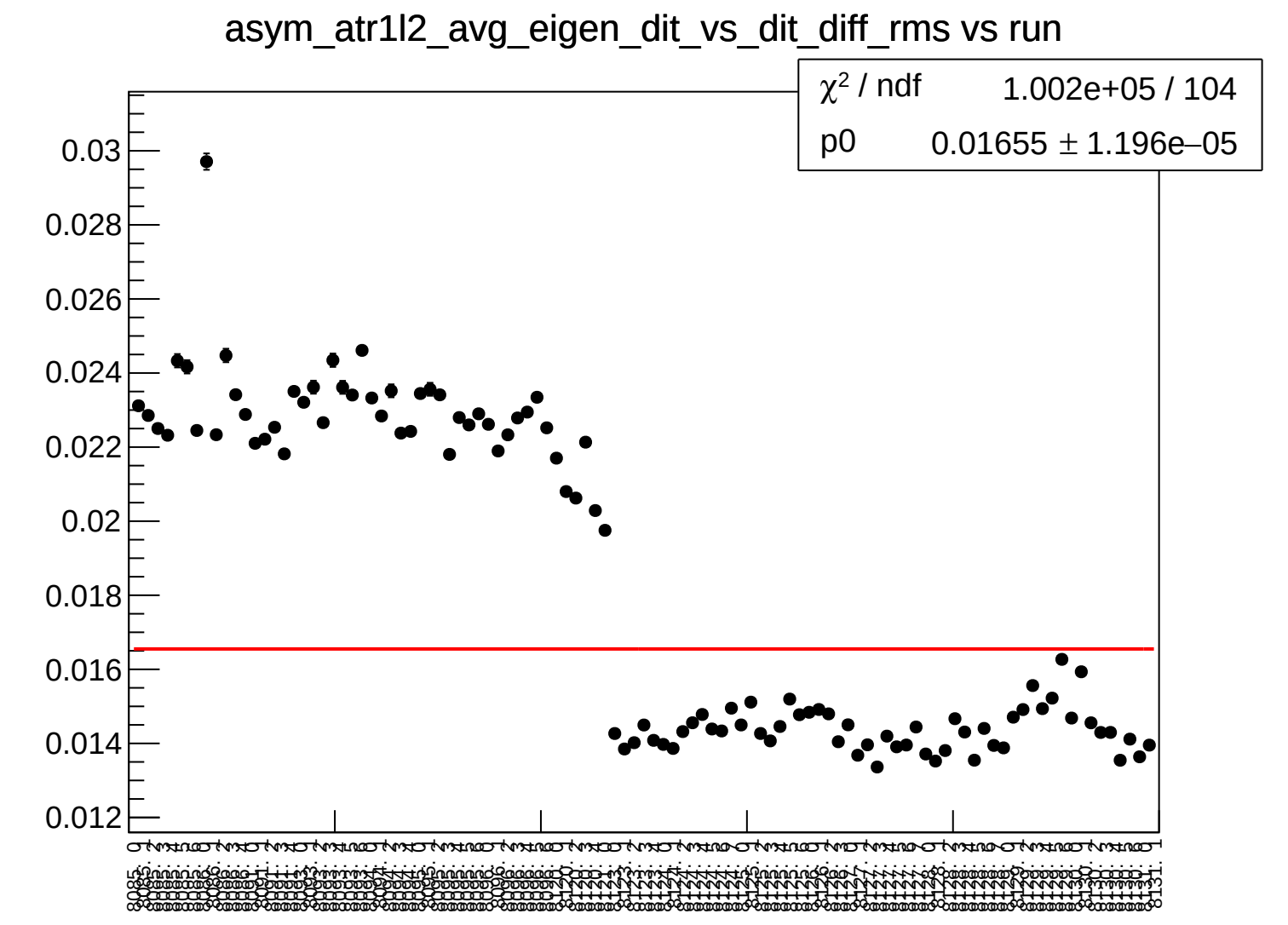

asym_atr1l2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.545e+05 / 105
p0 108.9 ± 0.08431
1800
1600
1400
1200
1000
800
600
400
200

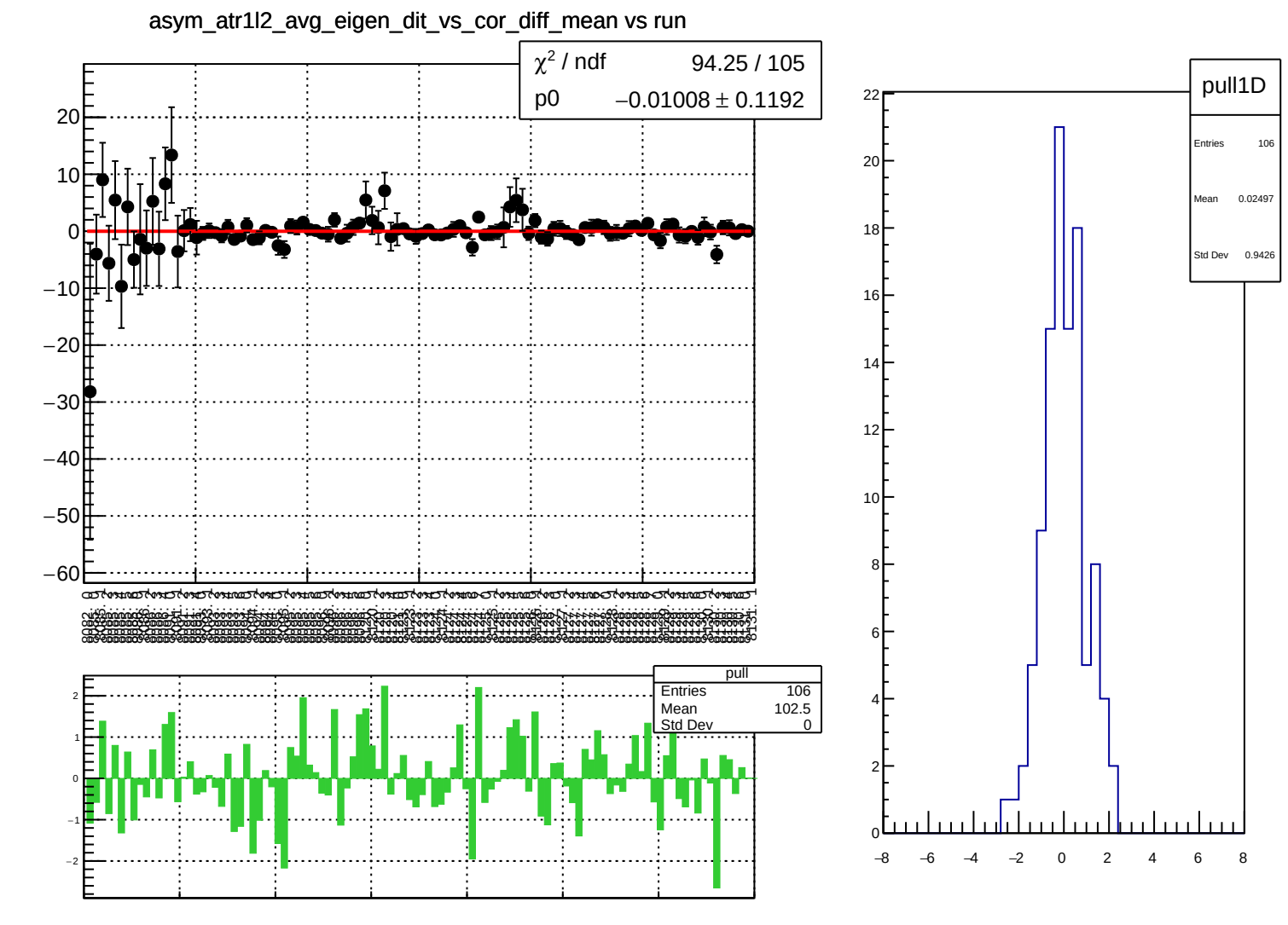

asym_atr1l2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.25 / 105
p0 −0.01011± 0.1192
pull
Entries 106
Mean 102.5
Std Dev 0
pull1D
Entries 106
Mean 0.02497
Std Dev 0.9426

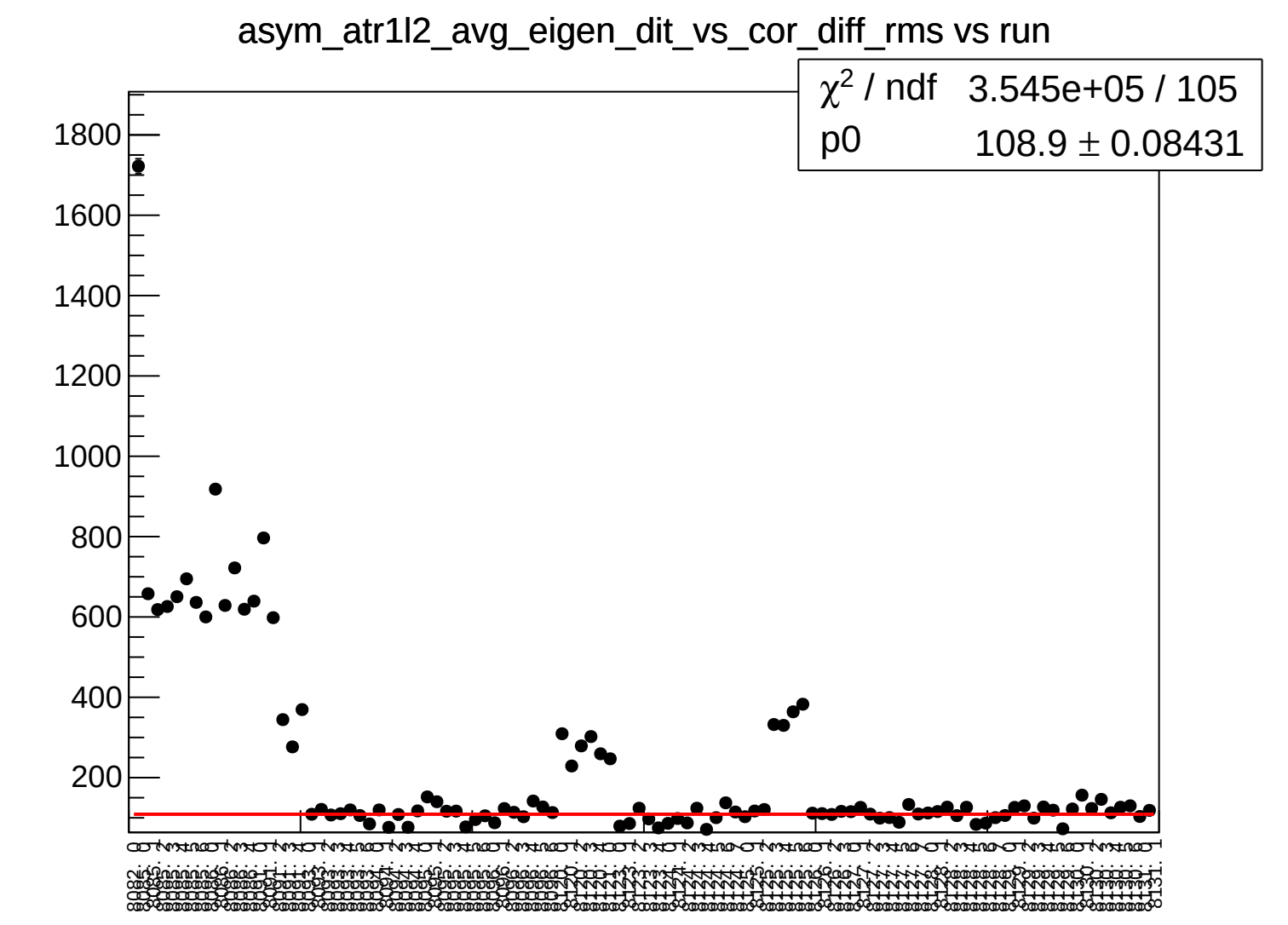

asym_atr1l2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.545e+05 / 105
p0 108.9 ± 0.08431
1800
1600
1400
1200
1000
800
600
400
200

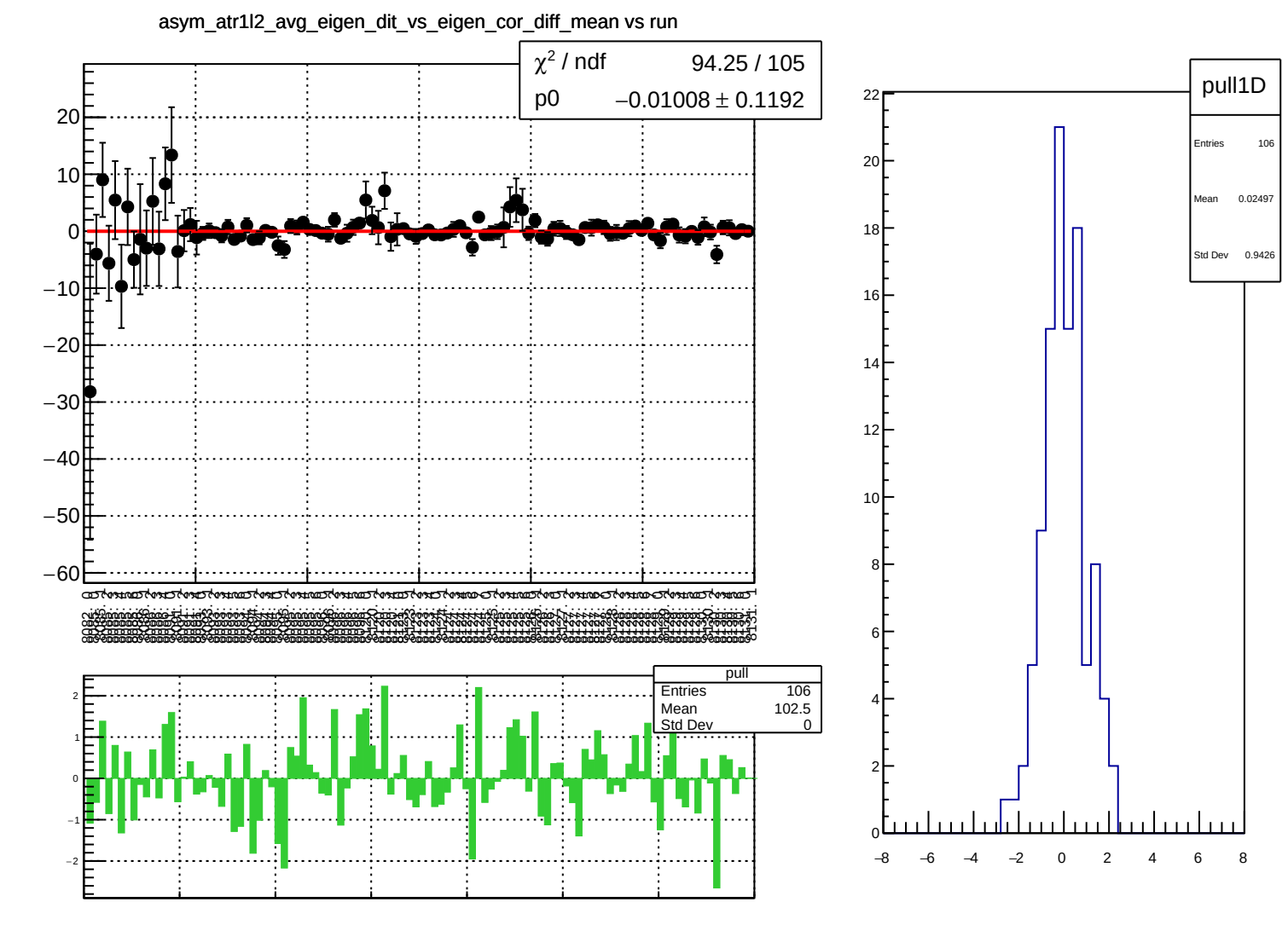

asym_atr1l2_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 85.46 / 104
p0 2.12e−05 ± 1.692e−05
pull
Entries 105
Mean 1.398
Std Dev 0

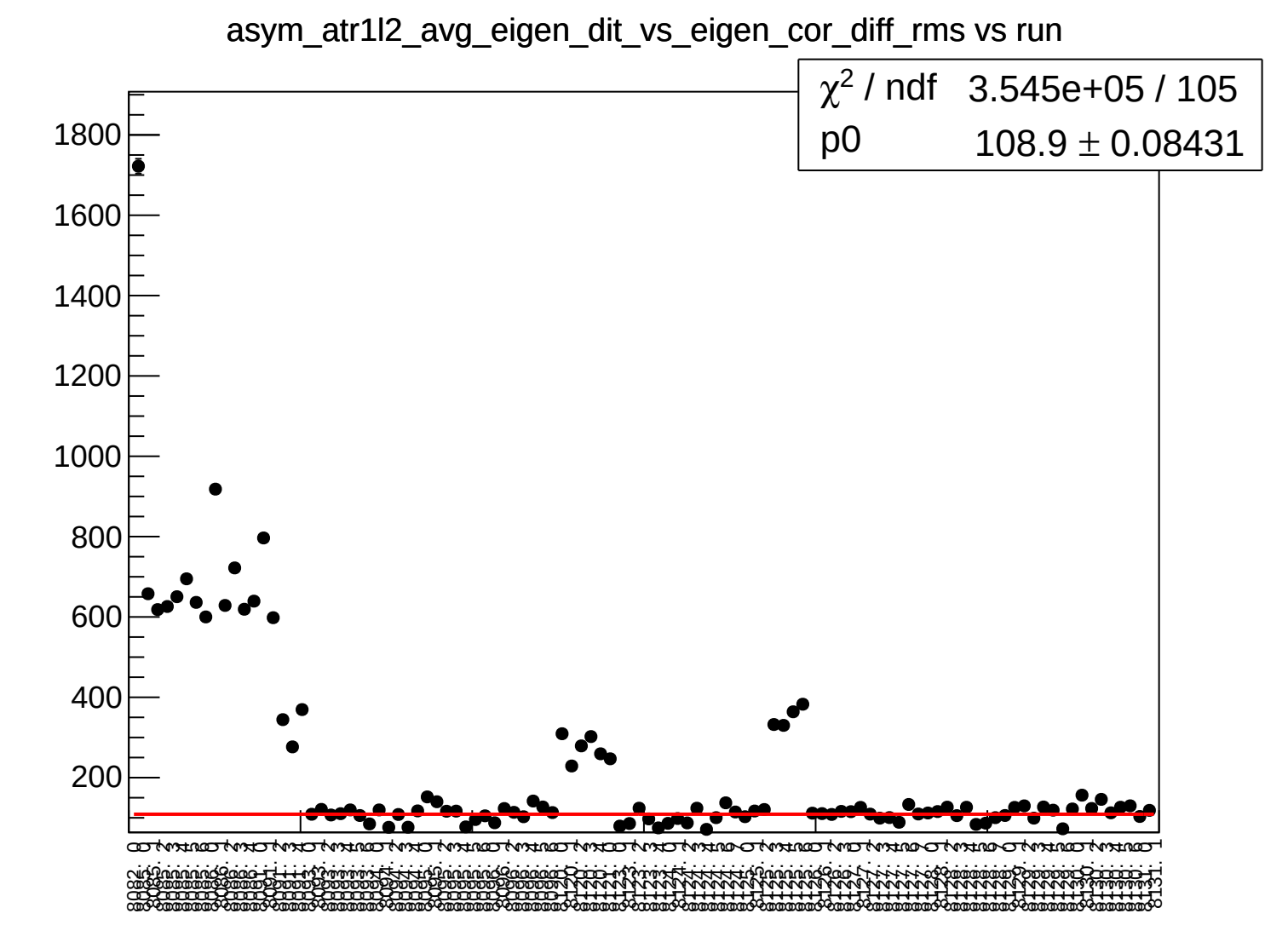

pull1D
Entries 105
Mean 0.02914
Std Dev 0.9017

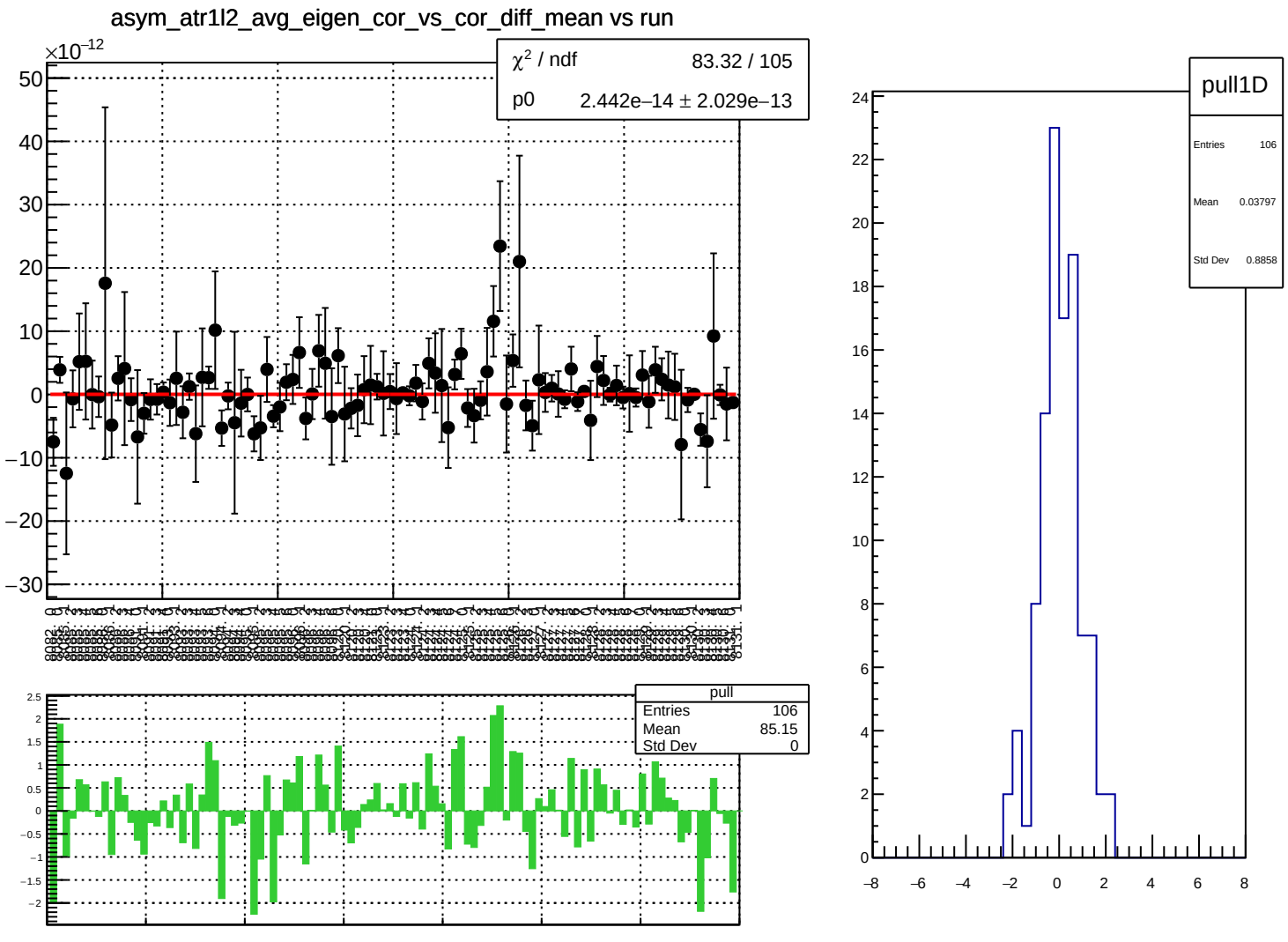

asym_atr1l2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.002e+05 / 104
p0 0.01655 ± 1.196e–05
0.03
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012

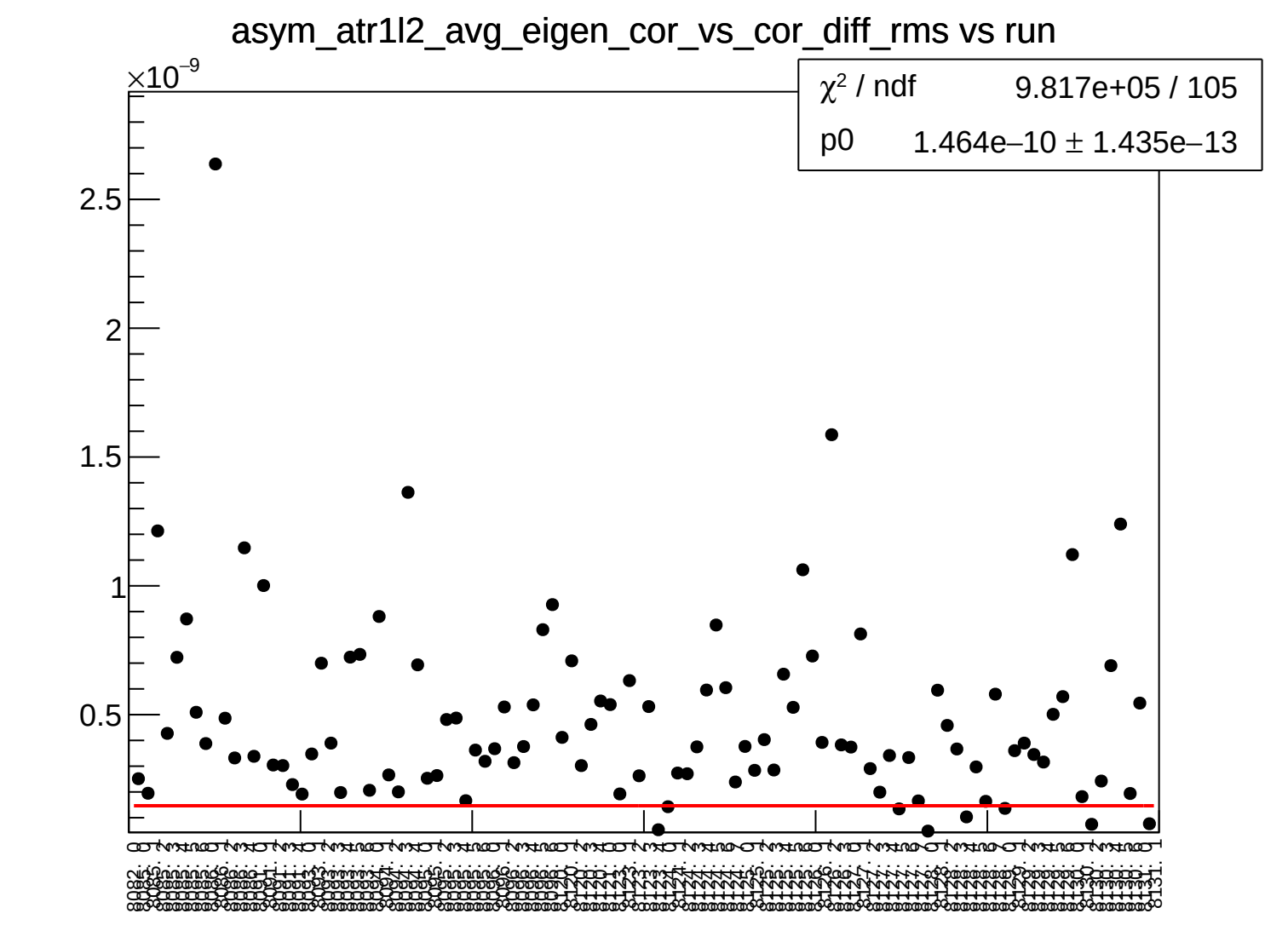

asym_atr1l2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 94.25 / 105
p0 −0.01008 ± 0.1192
pull
Entries 106
Mean 102.5
Std Dev 0
pull1D
Entries 106
Mean 0.02497
Std Dev 0.9426

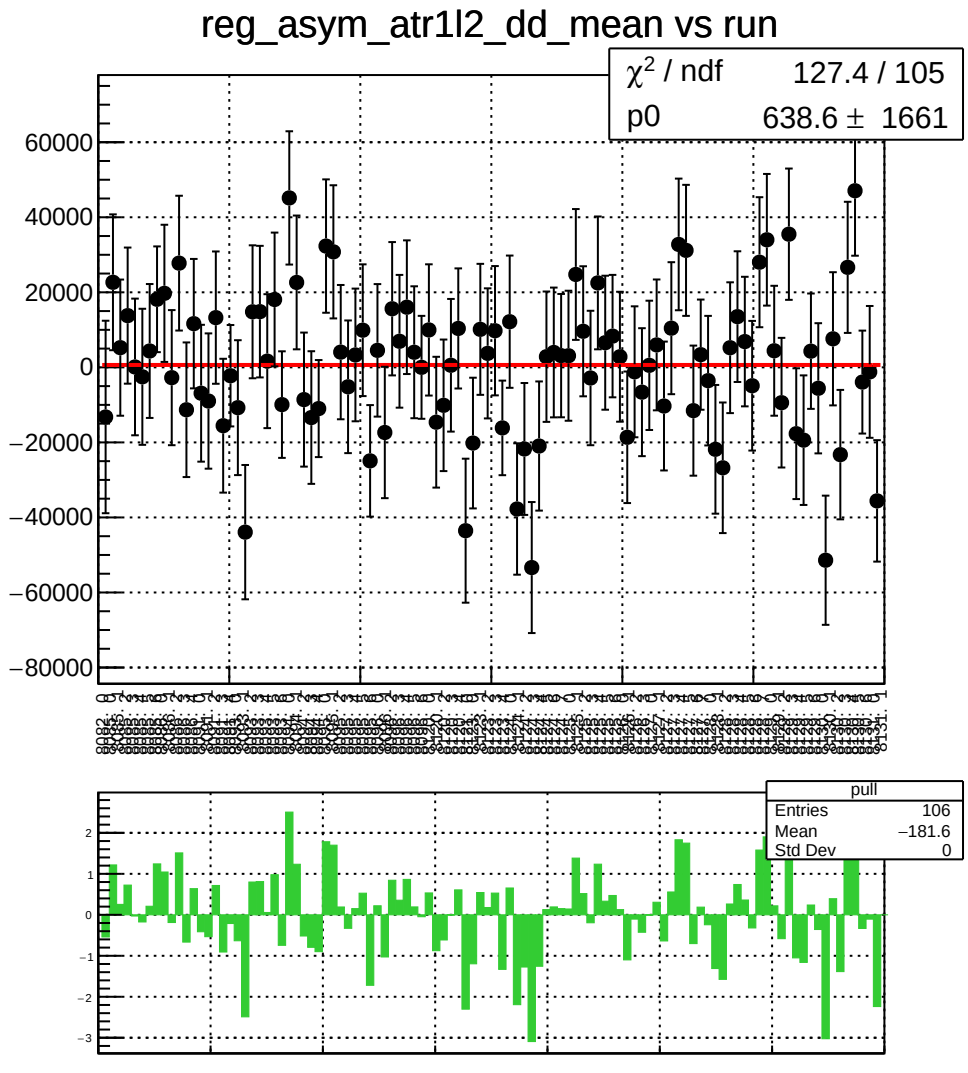

asym_atr1l2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.545e+05 / 105
p0 108.9 ± 0.08431
1800
1600
1400
1200
1000
800
600
400
200

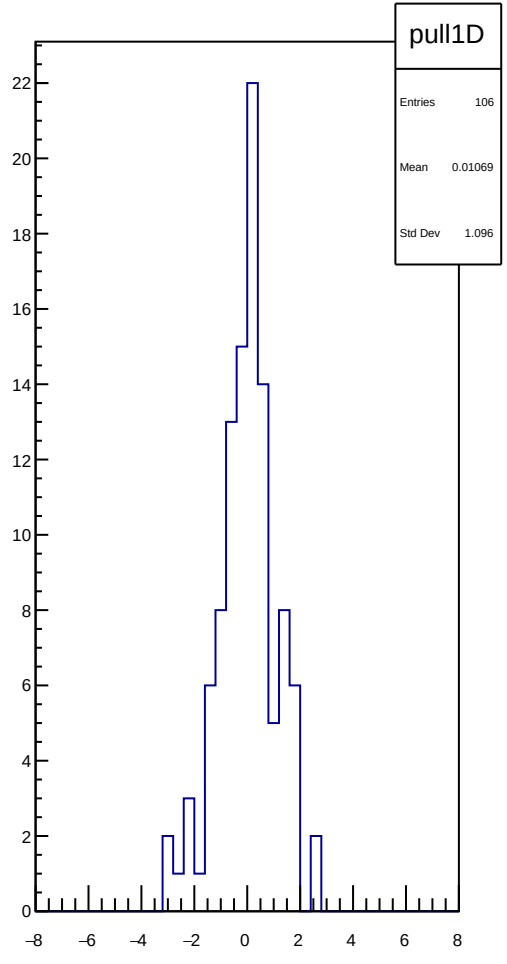

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.25 / 105
p0 −0.01008 ± 0.1192
pull
Entries 106
Mean 102.5
Std Dev 0
pull1D
Entries 106
Mean 0.02497
Std Dev 0.9426

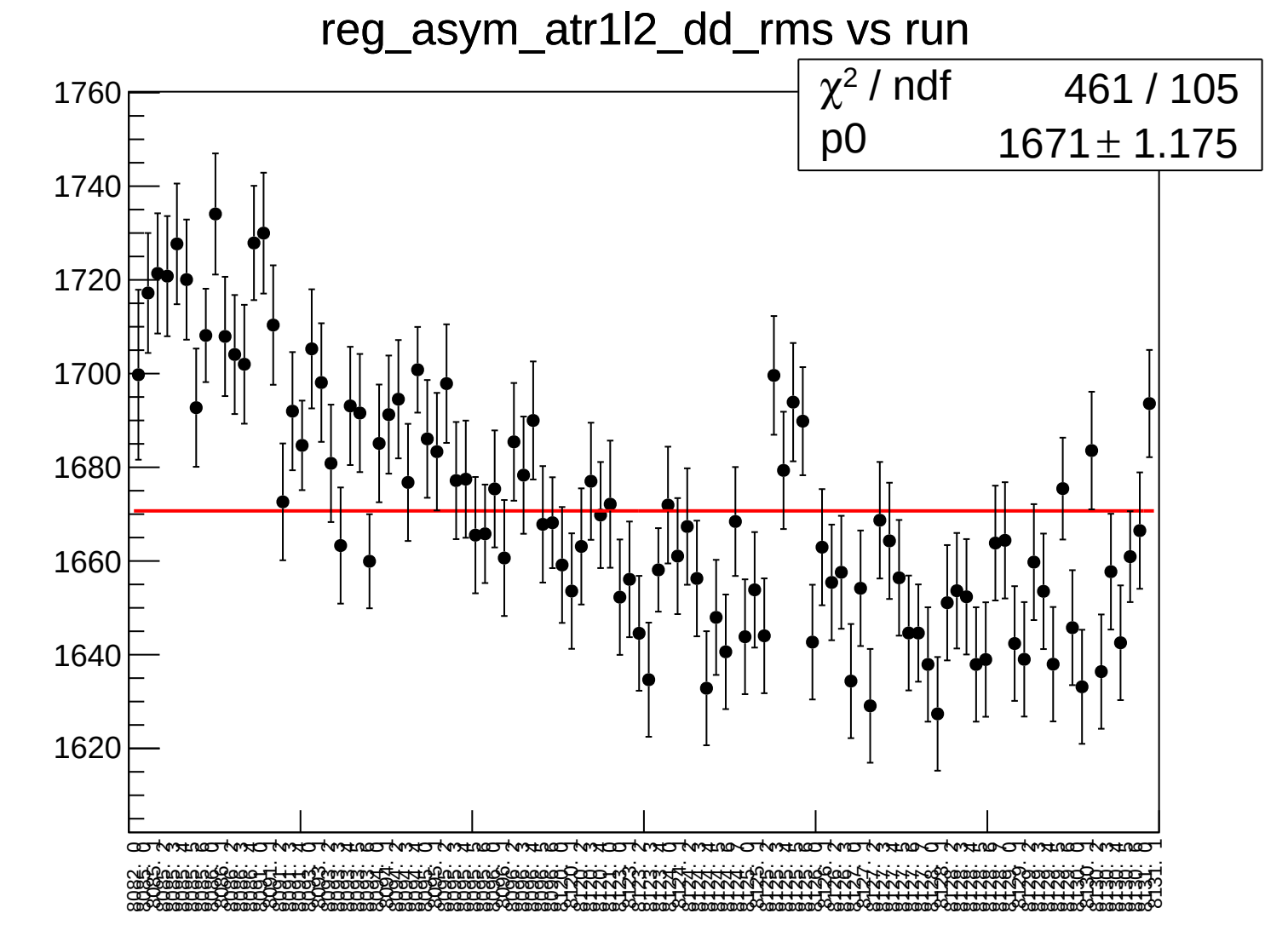

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
$\chi^2$ / ndf 3.545e+05 / 105
p0 108.9 ± 0.08431
1800
1600
1400
1200
1000
800
600
400
200

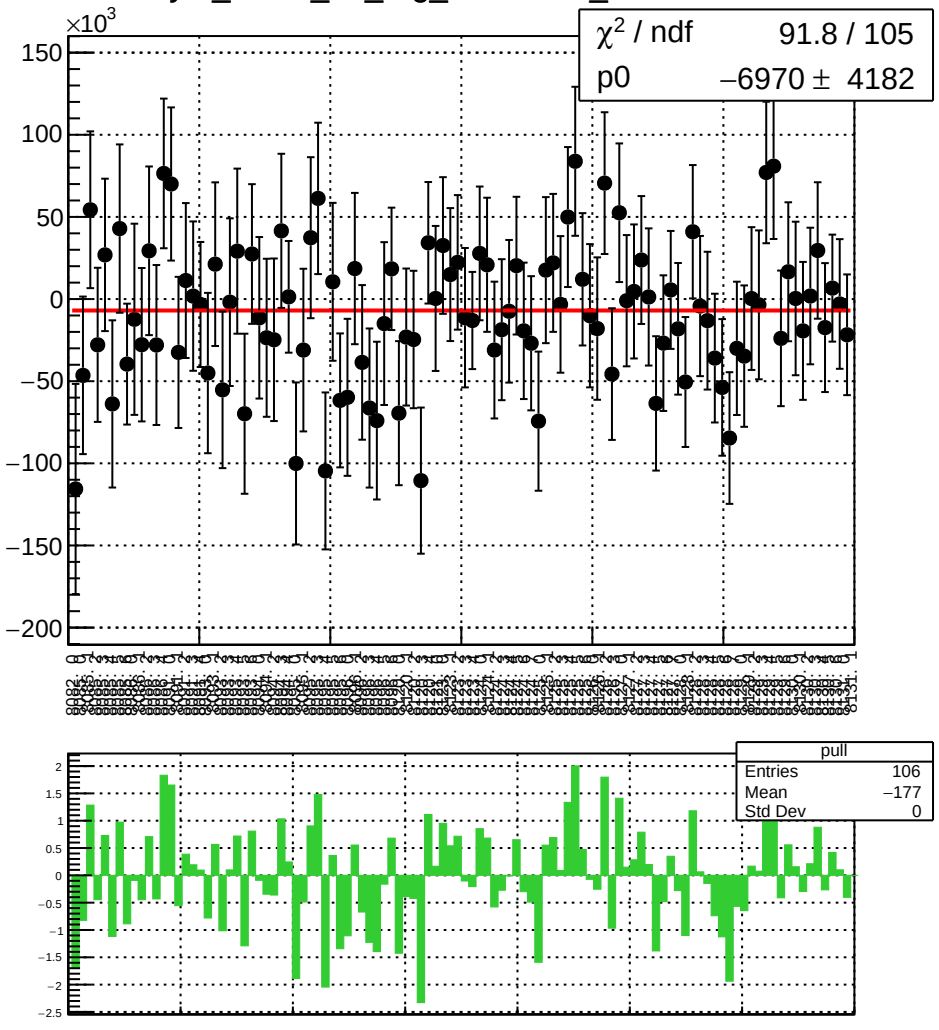

asym_atr1l2_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 83.32 / 105
p0 2.442e−14 ± 2.029e−13
pull
Entries 106
Mean 85.15
Std Dev 0
pull1D
Entries 106
Mean 0.03797
Std Dev 0.8858

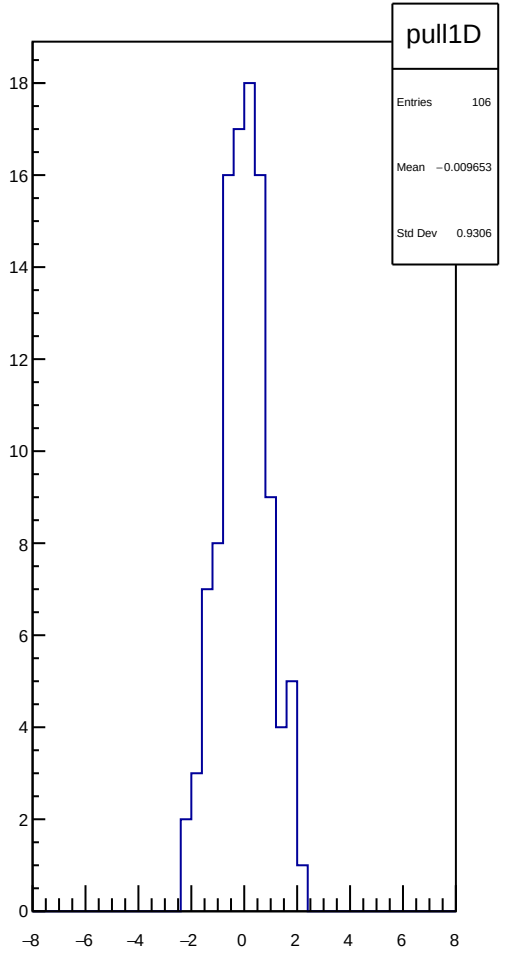

asym_atr1l2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.817e+05 / 105
p0 1.464e−10 ± 1.435e−13
2.5
2
1.5
1
0.5

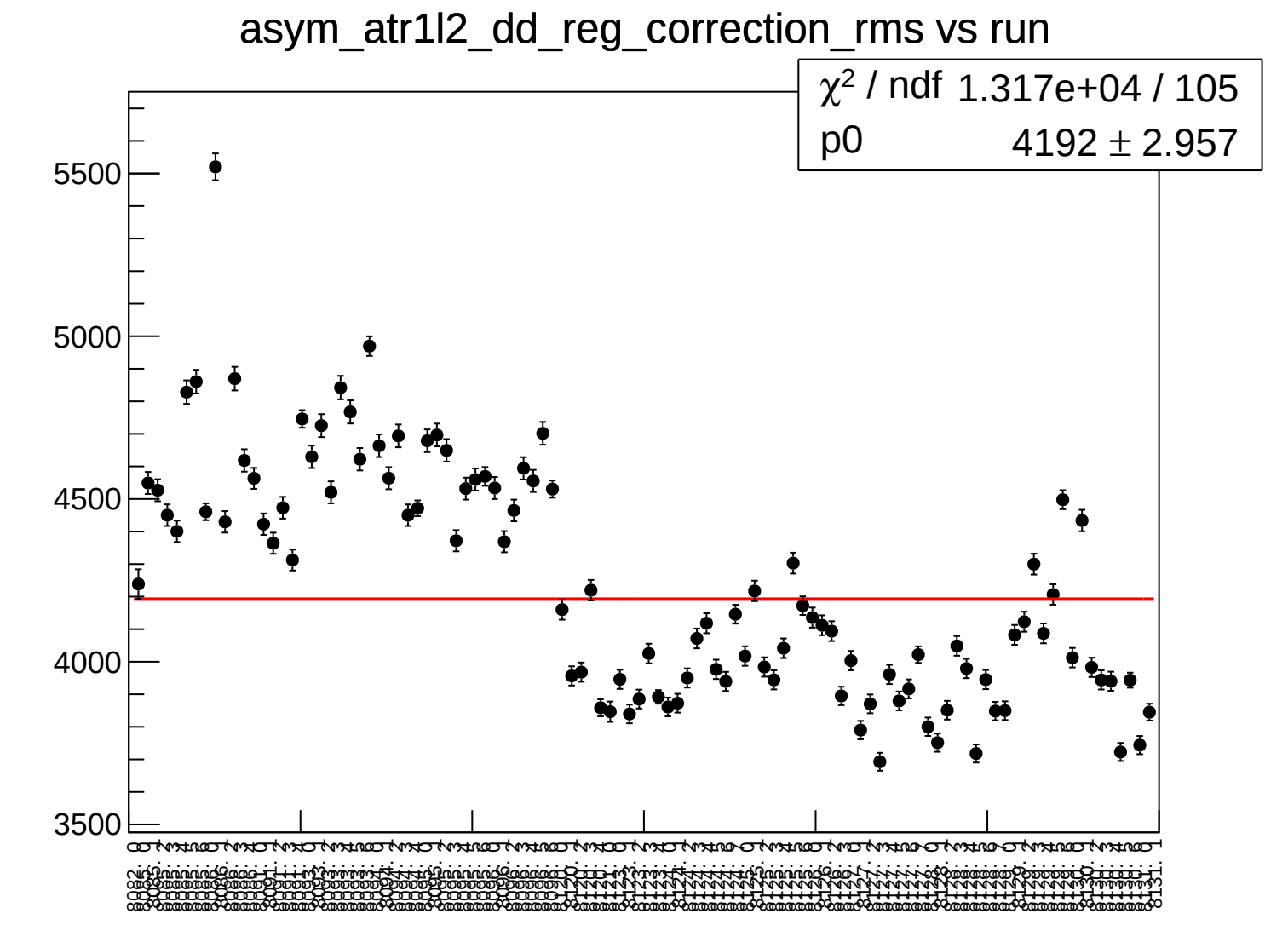

reg_asym_atr1l2_dd_mean vs run
χ² / ndf 127.4 / 105
p0 638.6 ± 1661
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 106
Mean −181.6
Std Dev 0
2
1
0
−1
−2
−3

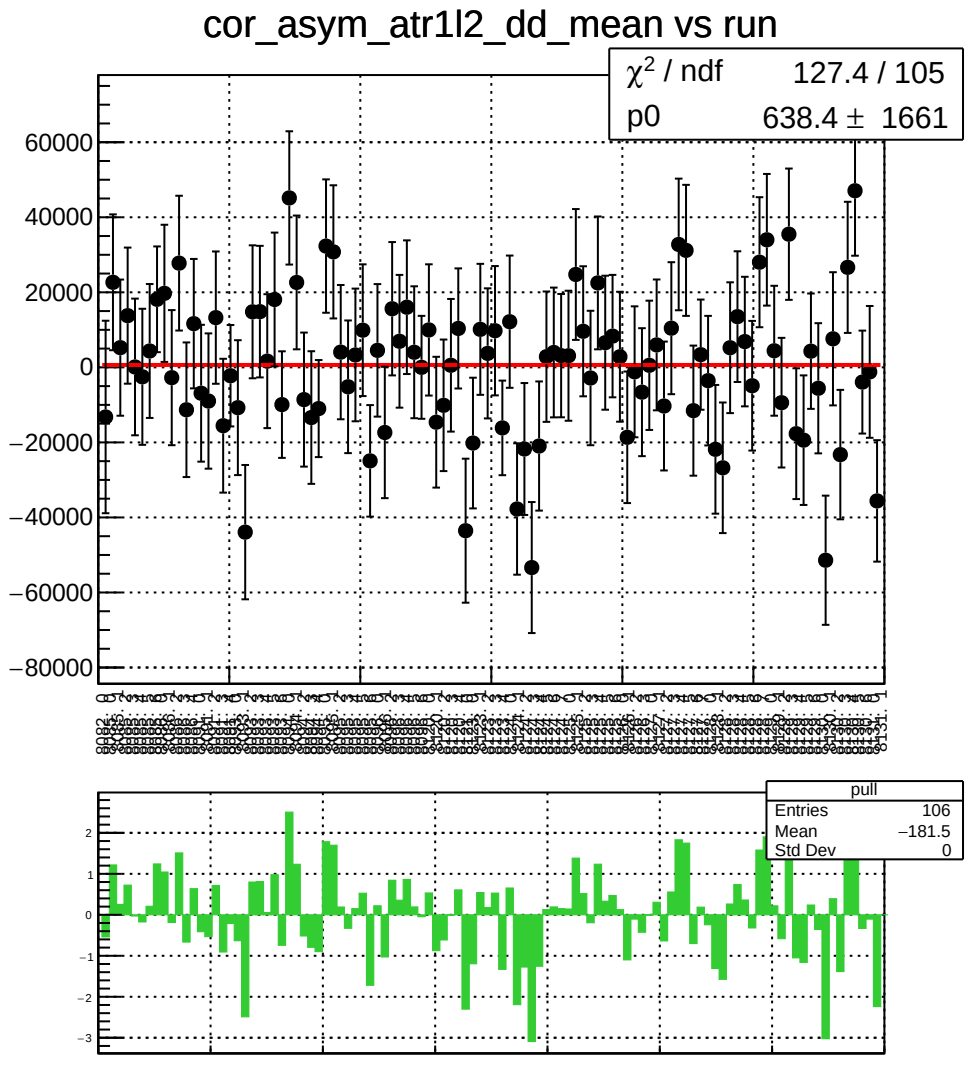

pull1D
Entries 106
Mean 0.01069
Std Dev 1.096
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

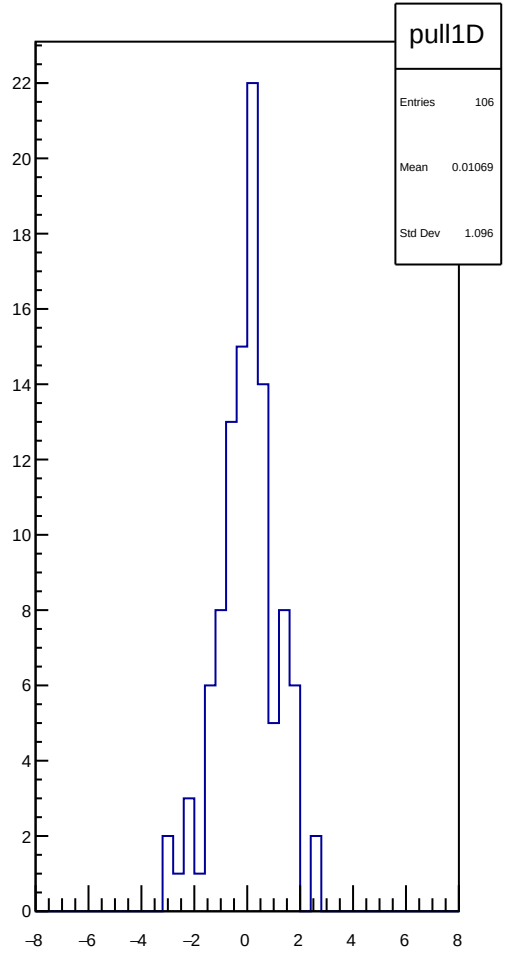

reg_asym_atr1l2_dd_rms vs run
χ² / ndf 461 / 105
p0 1671 ± 1.175
1760
1740
1720
1700
1680
1660
1640
1620

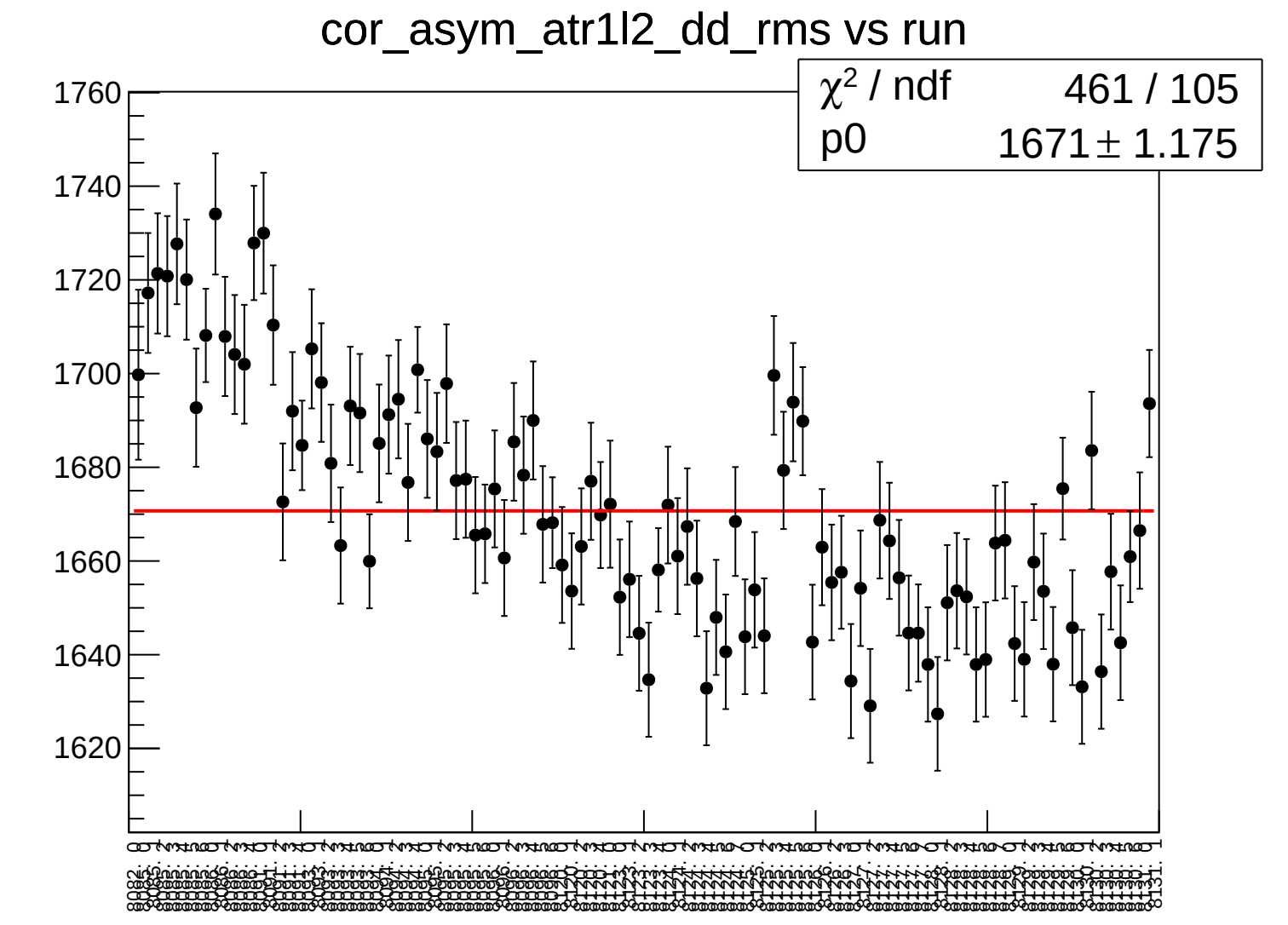

asym_atr1l2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 91.8 / 105
p0 −6970 ± 4182
150
100
50
0
−50
−100
−150
−200
pull
Entries 106
Mean −177
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

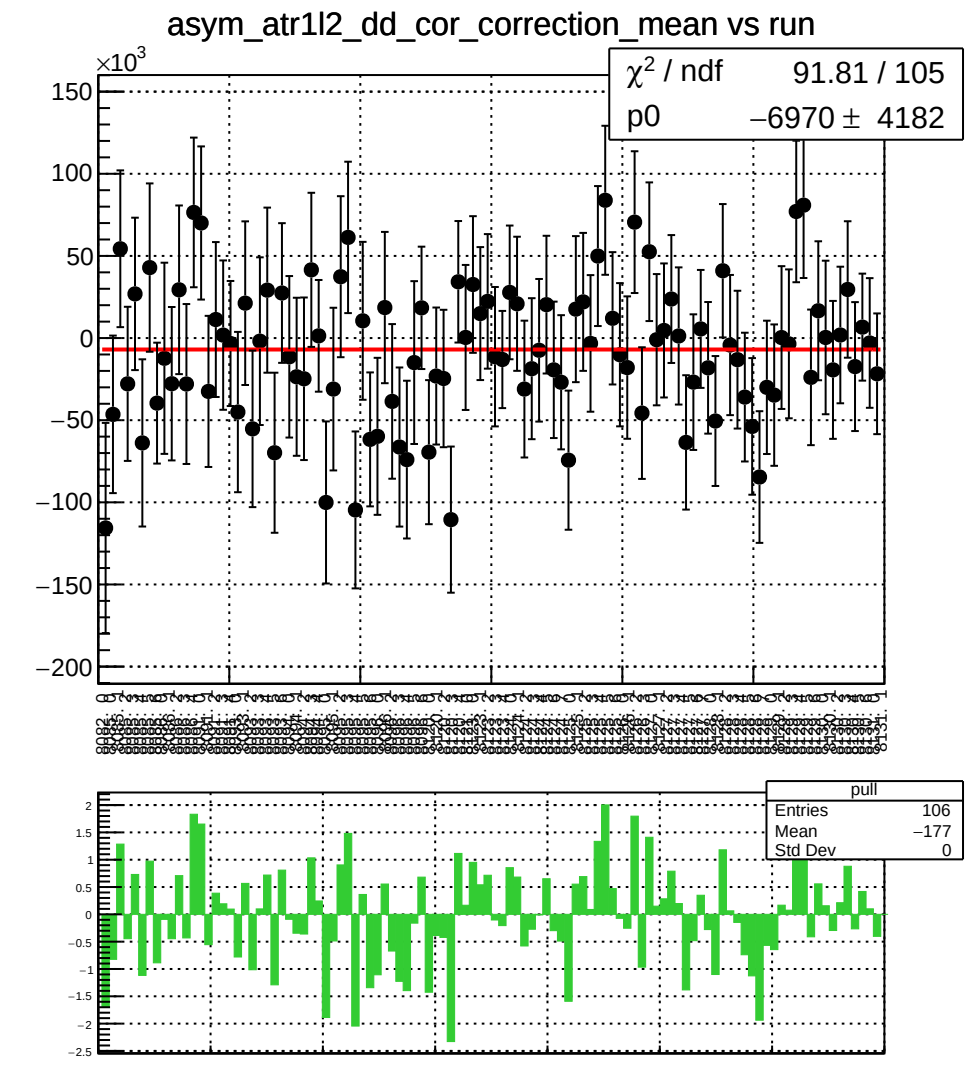

pull1D
Entries 106
Mean −0.009653
Std Dev 0.9306
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

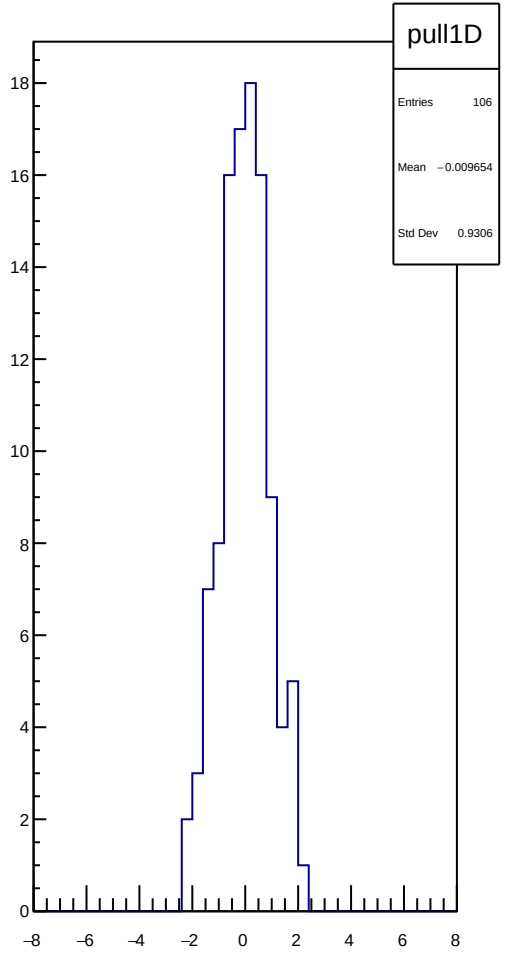

asym_atr1l2_dd_reg_correction_rms vs run
χ² / ndf 1.317e+04 / 105
p0 4192 ± 2.957
5500
5000
4500
4000
3500

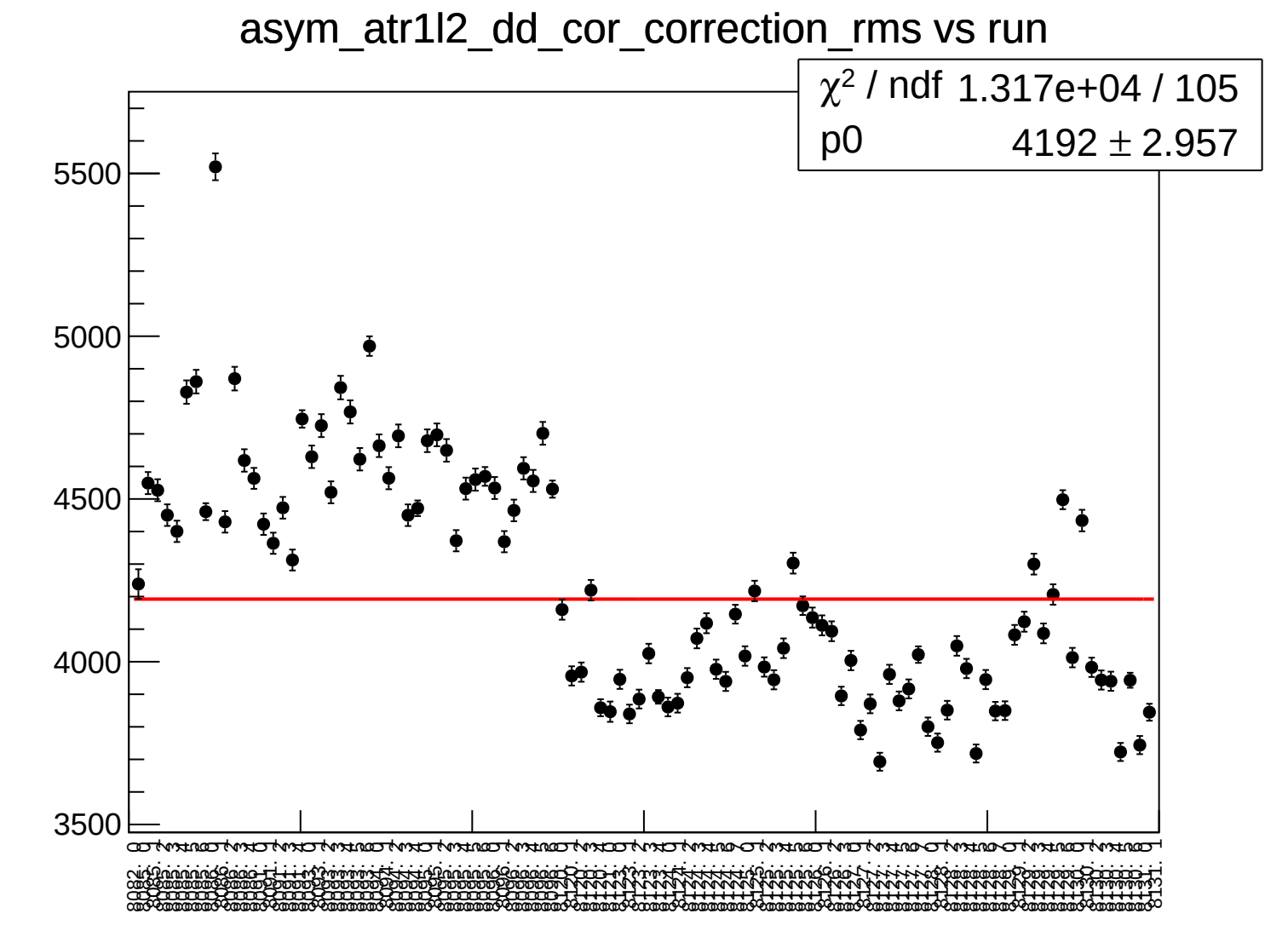

cor_asym_atr1l2_dd_mean vs run
χ² / ndf 127.4 / 105
p0 638.4 ± 1661
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 106
Mean −181.5
Std Dev 0
2
1
0
−1
−2
−3

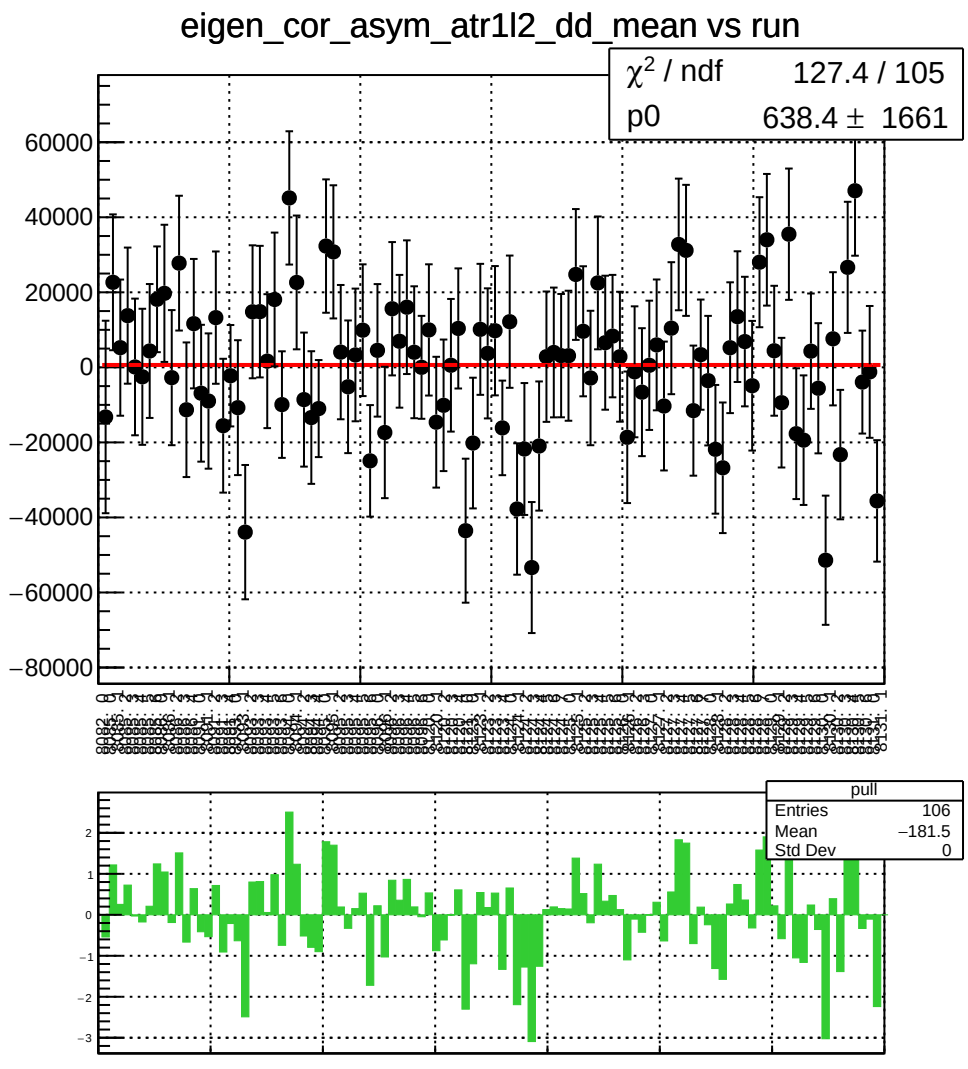

pull1D
Entries 106
Mean 0.01069
Std Dev 1.096
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

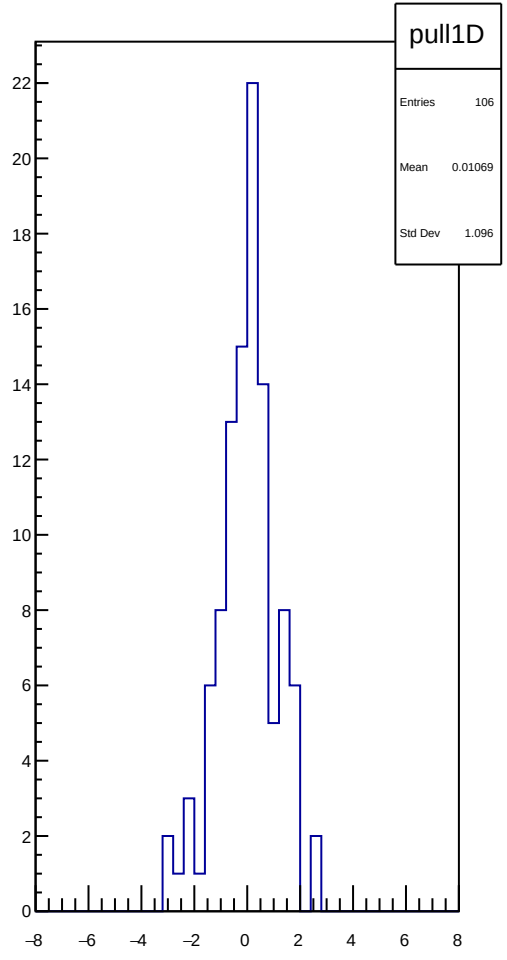

cor_asym_atr1l2_dd_rms vs run
χ² / ndf 461 / 105
p0 1671 ± 1.175
1760
1740
1720
1700
1680
1660
1640
1620


asym_atr1l2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 91.81 / 105
p0 −6970 ± 4182
150
100
50
0
−50
−100
−150
−200
pull
Entries 106
Mean −177
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

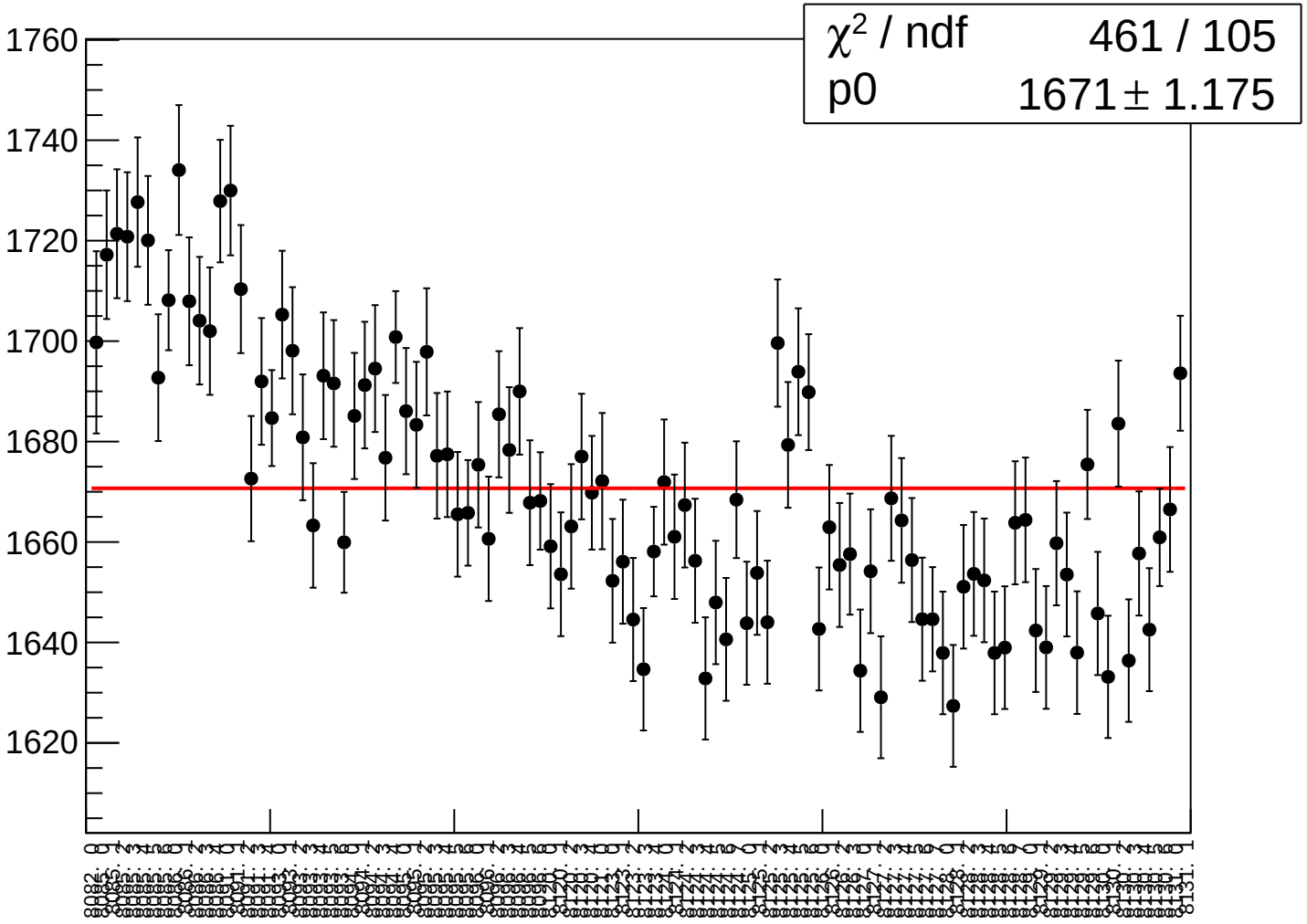

pull1D
Entries 106
Mean −0.009654
Std Dev 0.9306
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

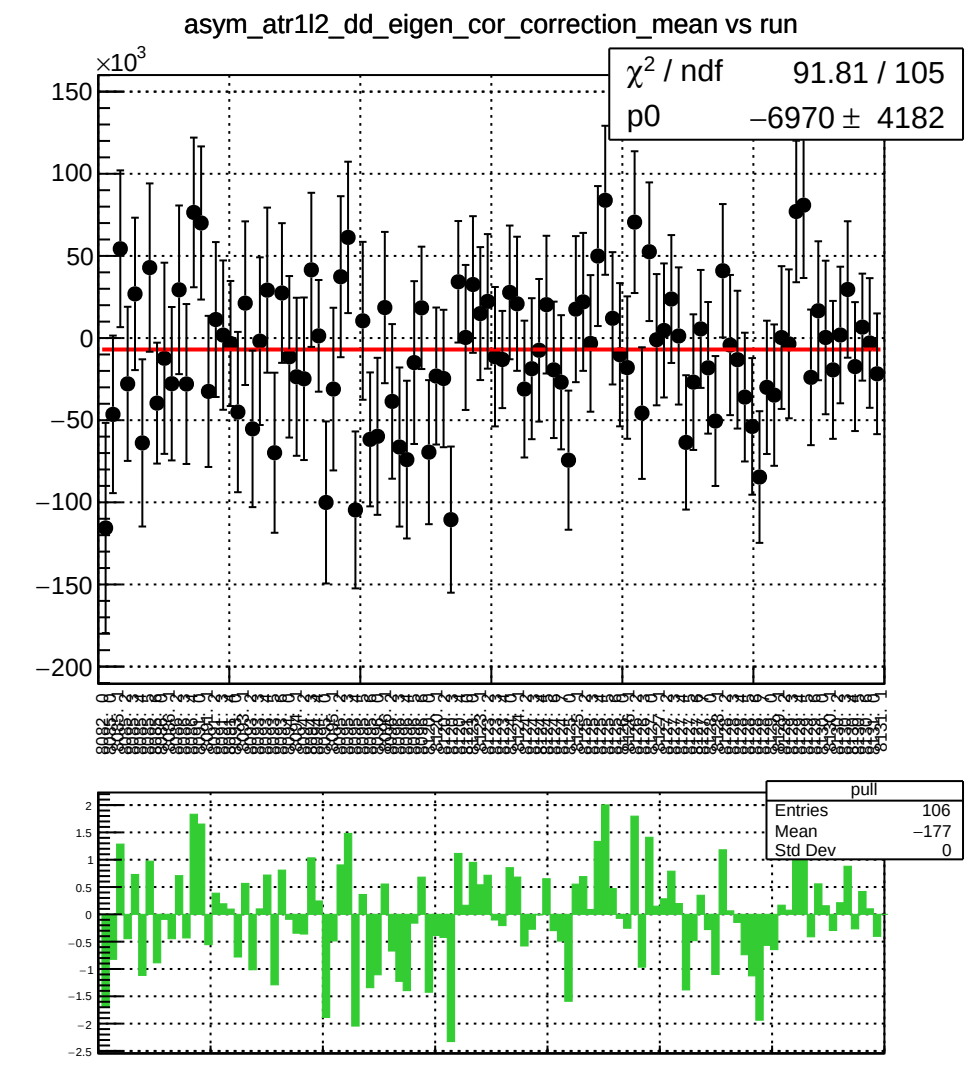

asym_atr1l2_dd_cor_correction_rms vs run
χ² / ndf 1.317e+04 / 105
p0 4192 ± 2.957
5500
5000
4500
4000
3500

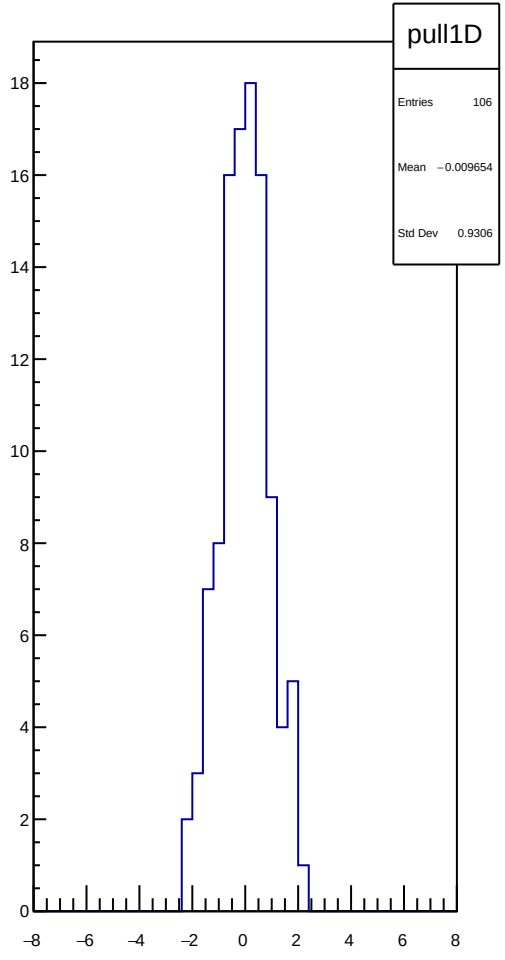

eigen_cor_asym_atr1l2_dd_mean vs run
χ² / ndf 127.4 / 105
p0 638.4 ± 1661
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 106
Mean −181.5
Std Dev 0
2
1
0
−1
−2
−3

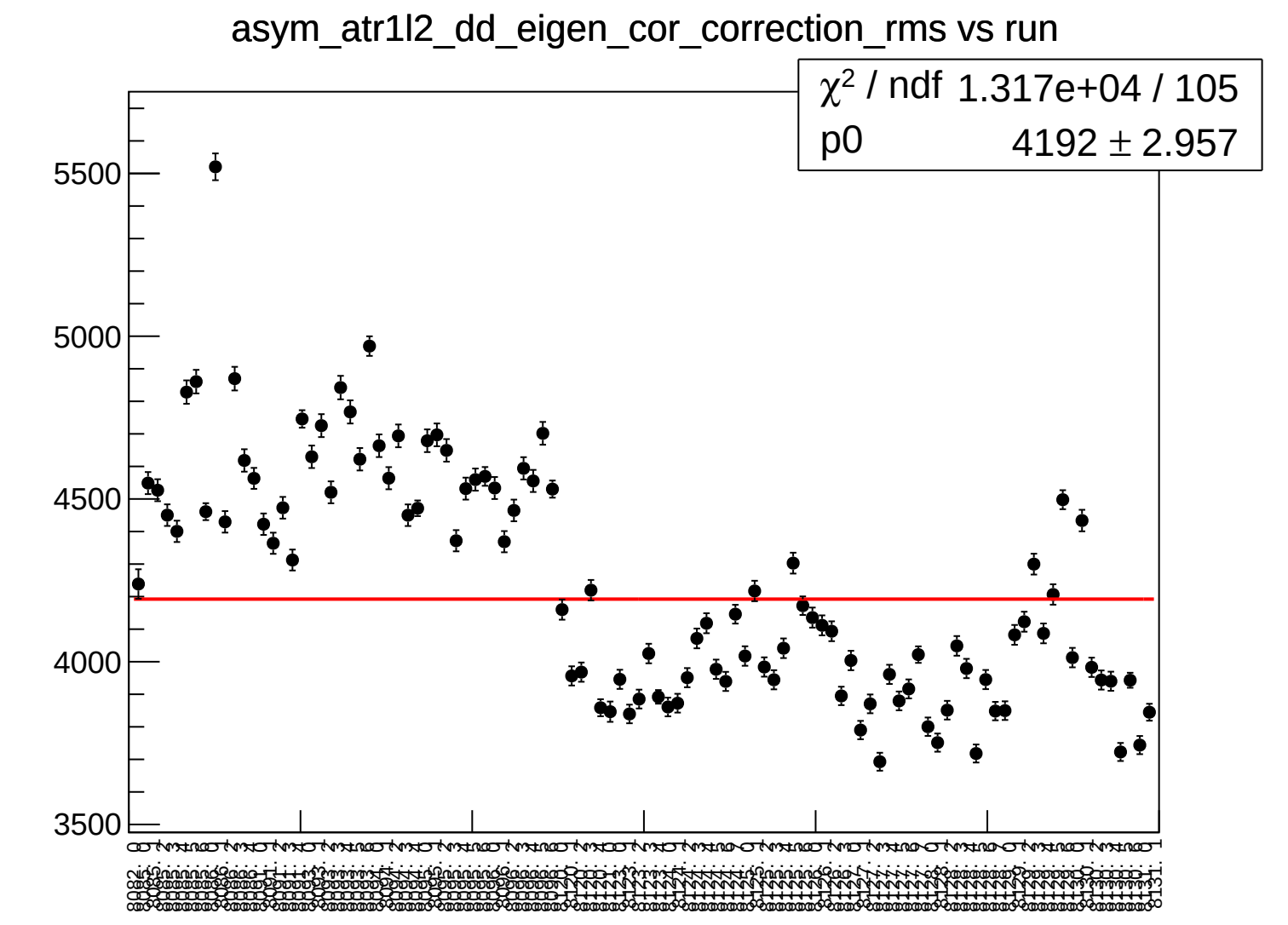

pull1D
Entries 106
Mean 0.01069
Std Dev 1.096
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

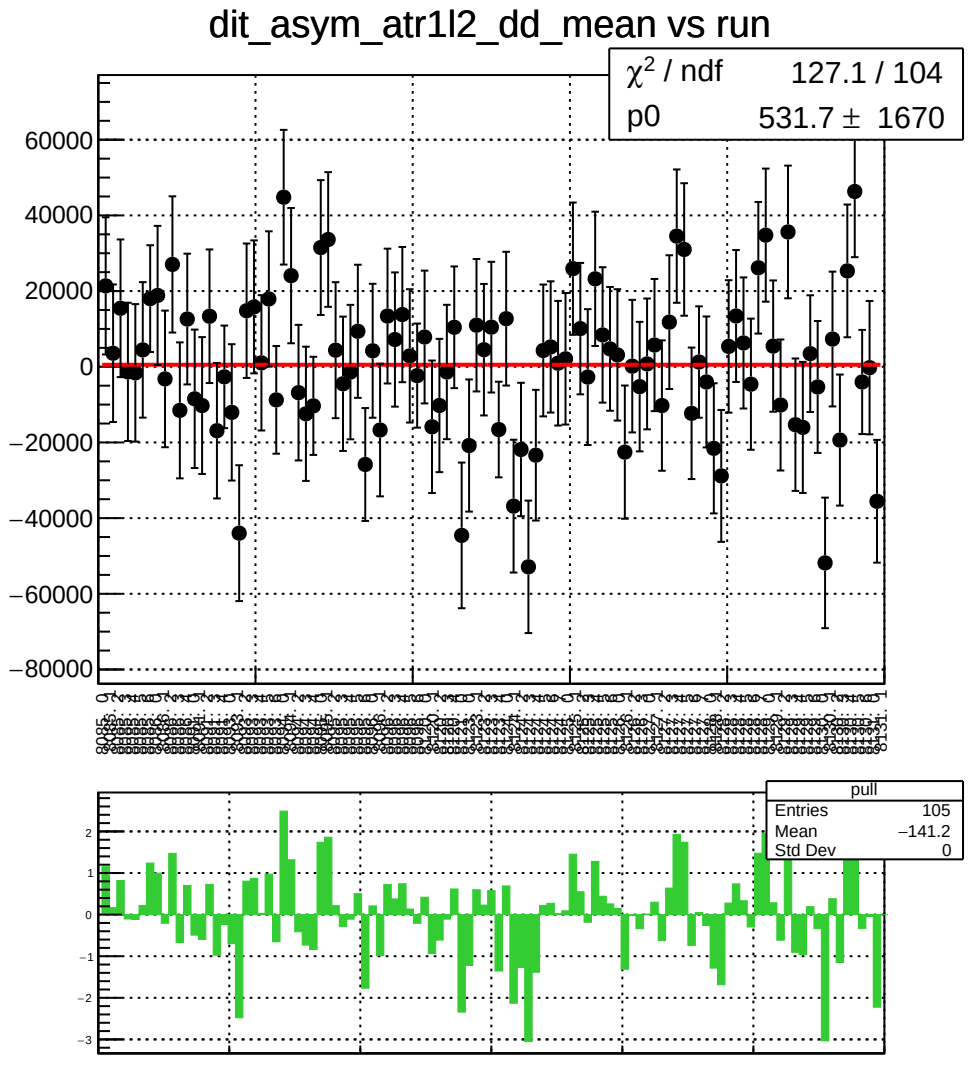
# eigen_cor_asym_atr1l2_dd_rms vs run

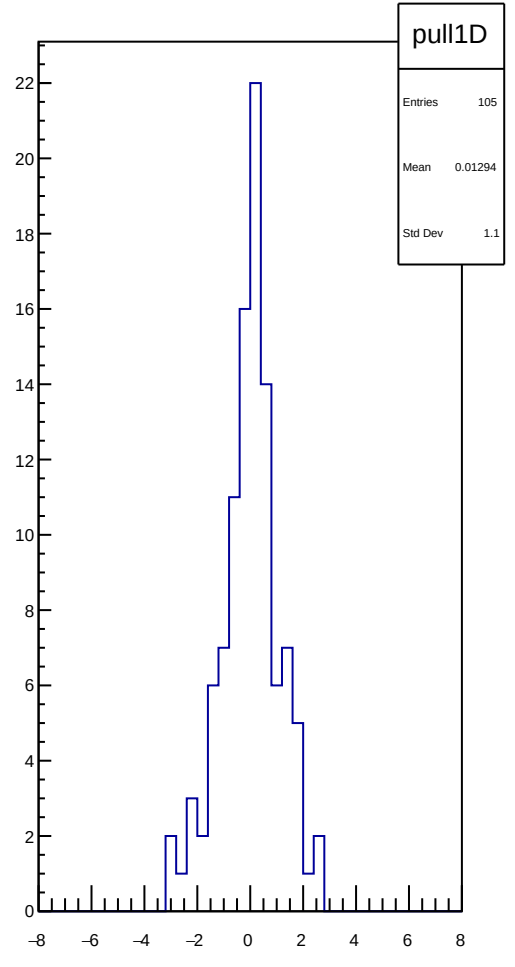


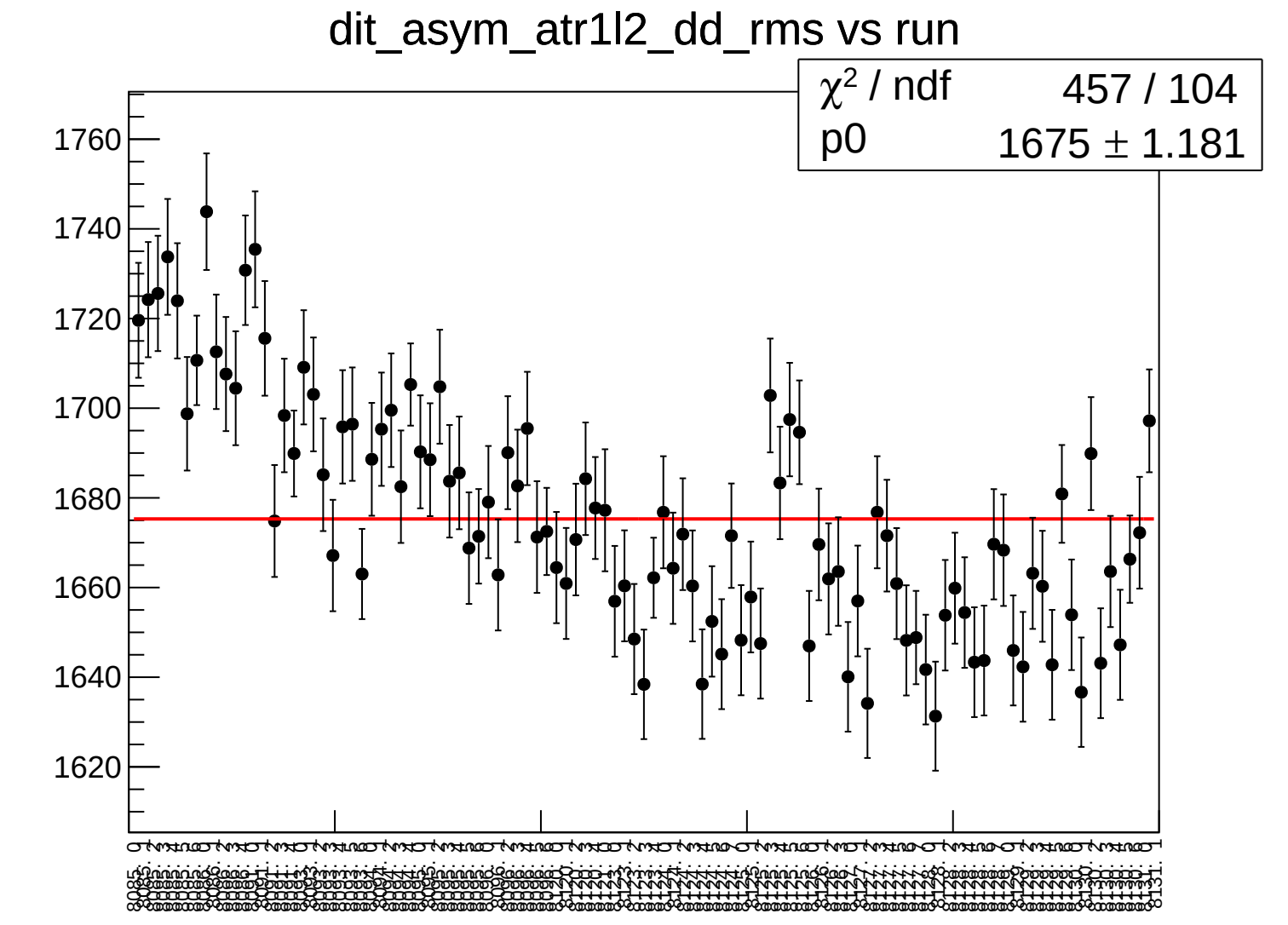

asym_atr1l2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 91.81 / 105
p0 −6970 ± 4182
150
100
50
0
−50
−100
−150
−200
pull
Entries 106
Mean −177
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

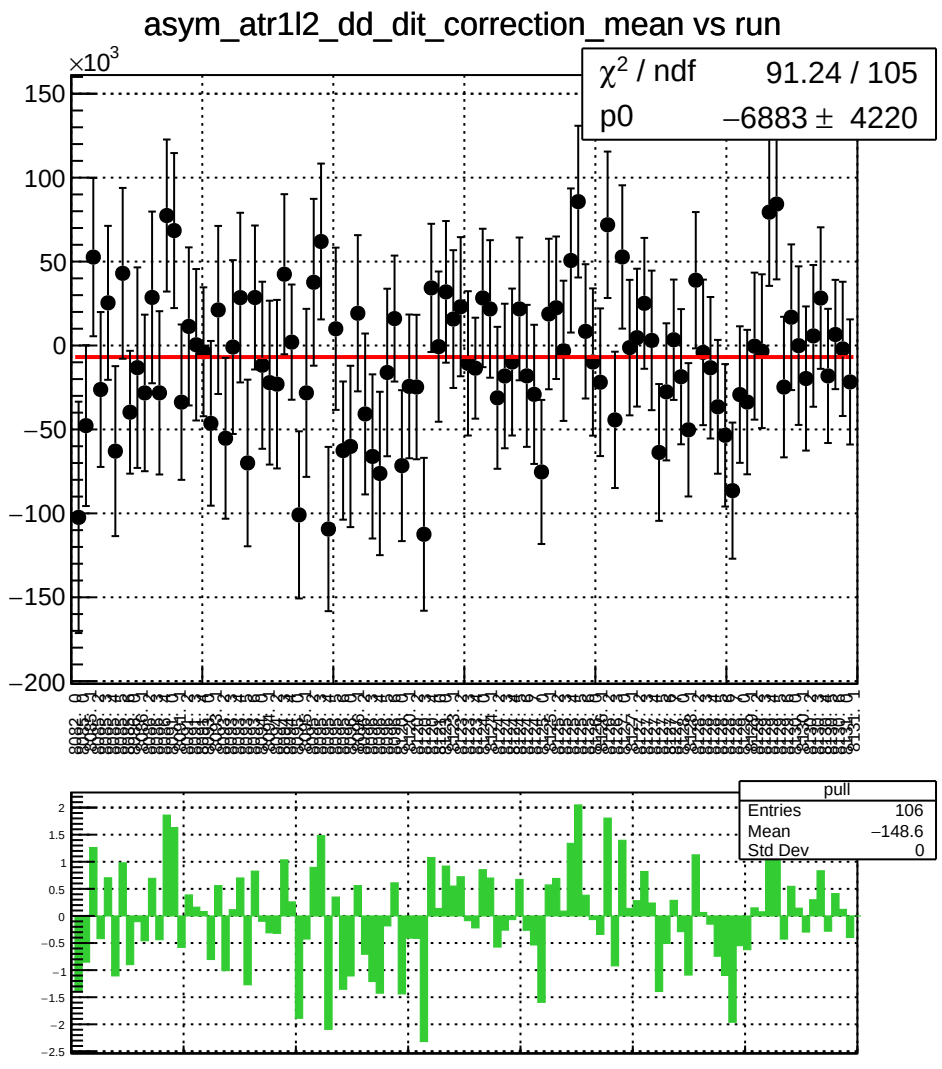

pull1D
Entries 106
Mean −0.009654
Std Dev 0.9306
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

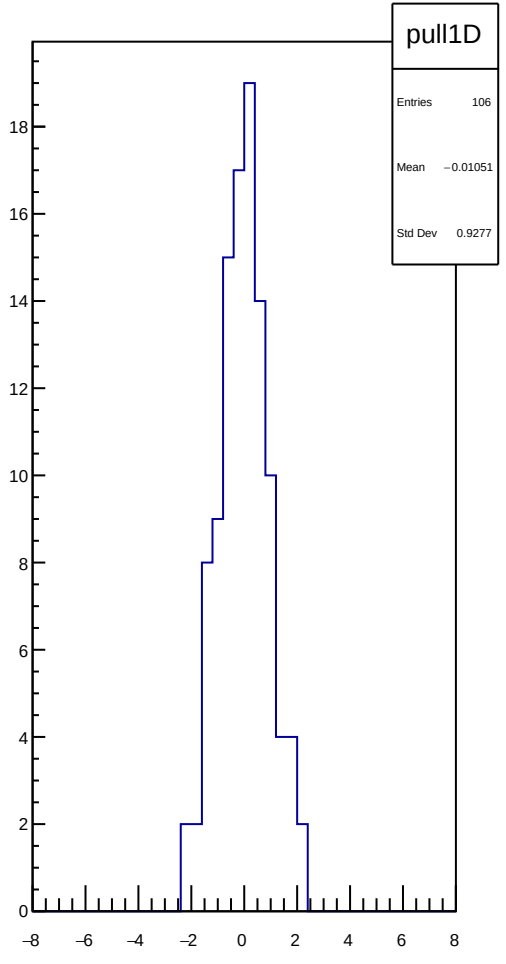

asym_atr1l2_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.317e+04 / 105
p0 4192 ± 2.957
5500
5000
4500
4000
3500

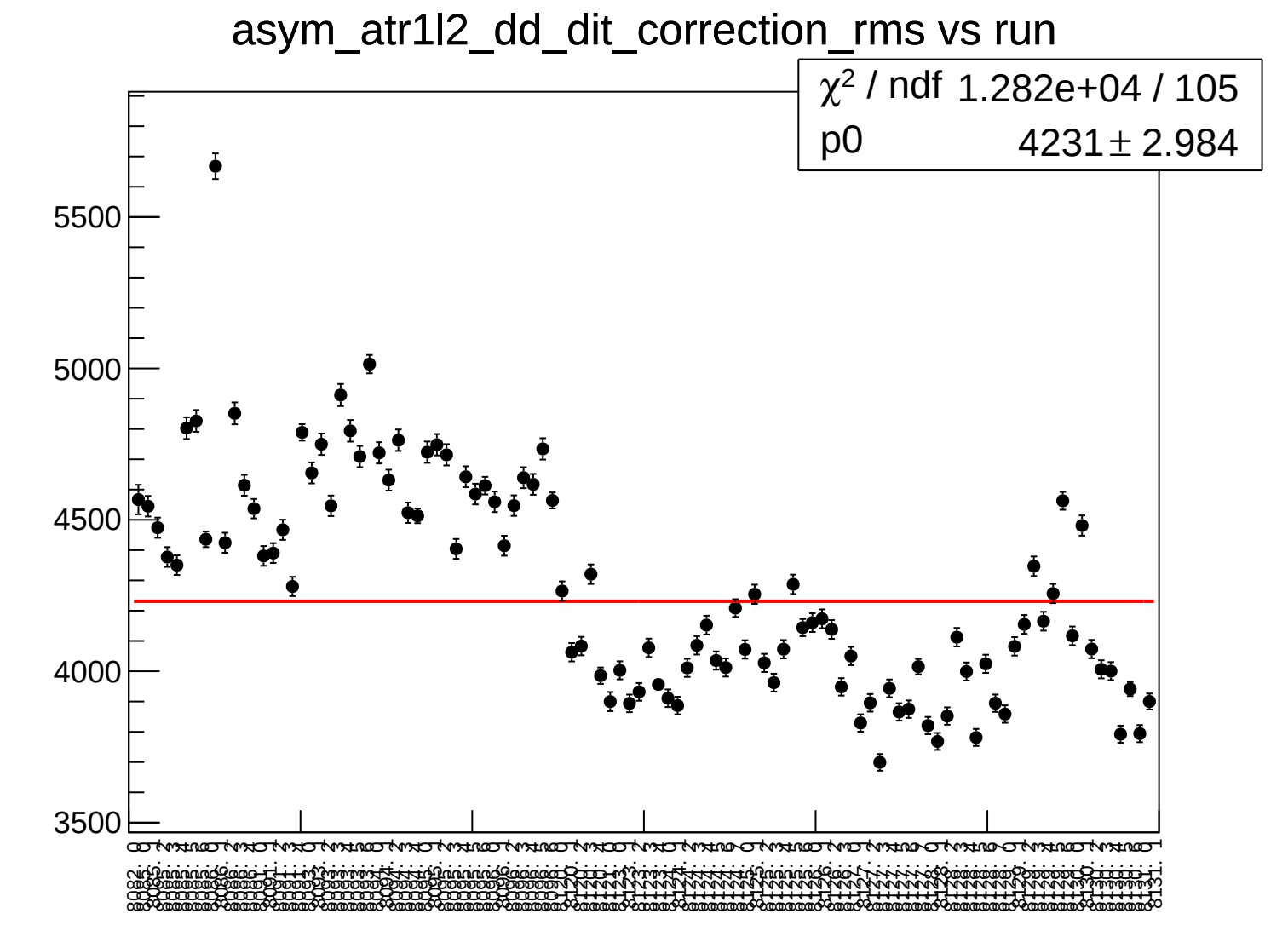

dit_asym_atr1l2_dd_mean vs run
χ² / ndf 127.1 / 104
p0 531.7 ± 1670
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 105
Mean −141.2
Std Dev 0
2
1
0
−1
−2
−3

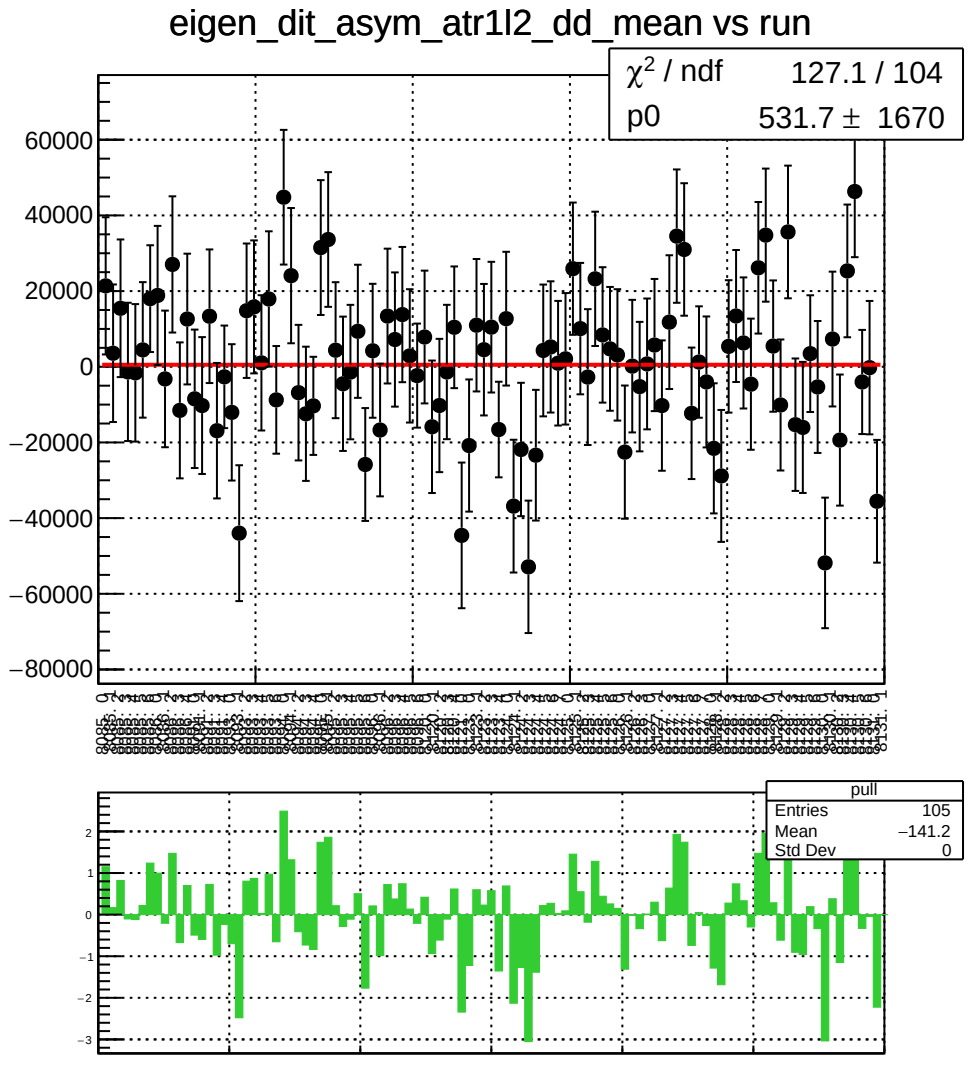

pull1D
Entries 105
Mean 0.01294
Std Dev 1.1
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

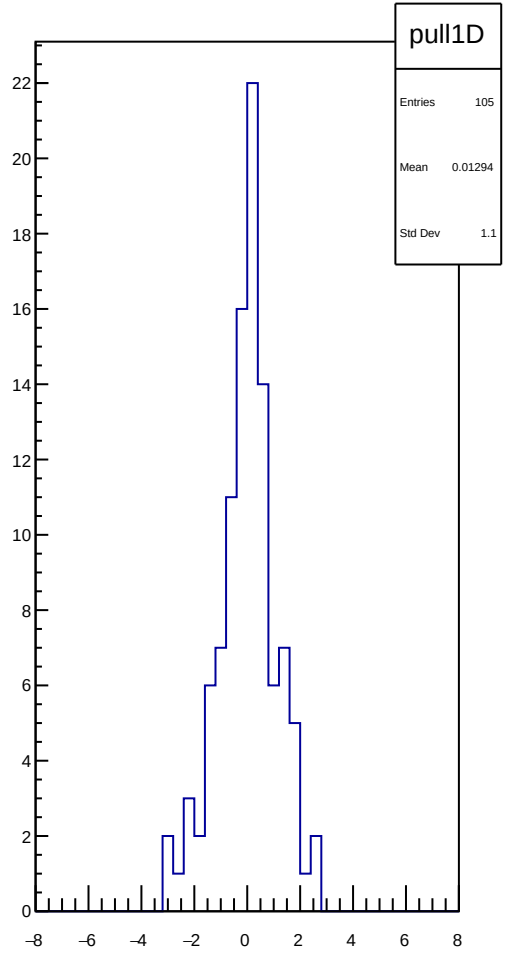

dit_asym_atr1l2_dd_rms vs run
χ² / ndf 457 / 104
p0 1675 ± 1.181
1760
1740
1720
1700
1680
1660
1640
1620

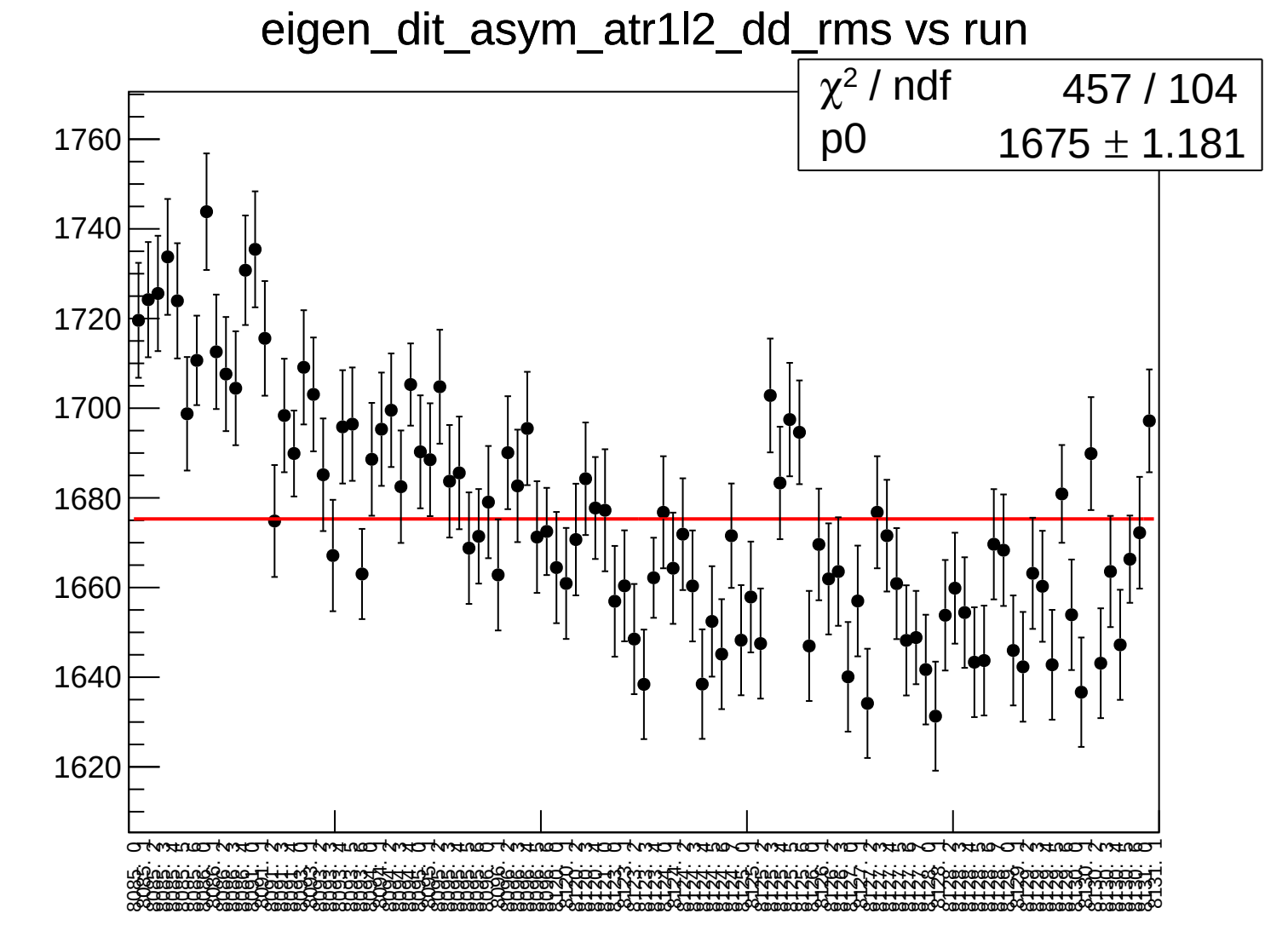

asym_atr1l2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 91.24 / 105
p0 −6883 ± 4220
150
100
50
0
−50
−100
−150
−200
pull
Entries 106
Mean −148.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

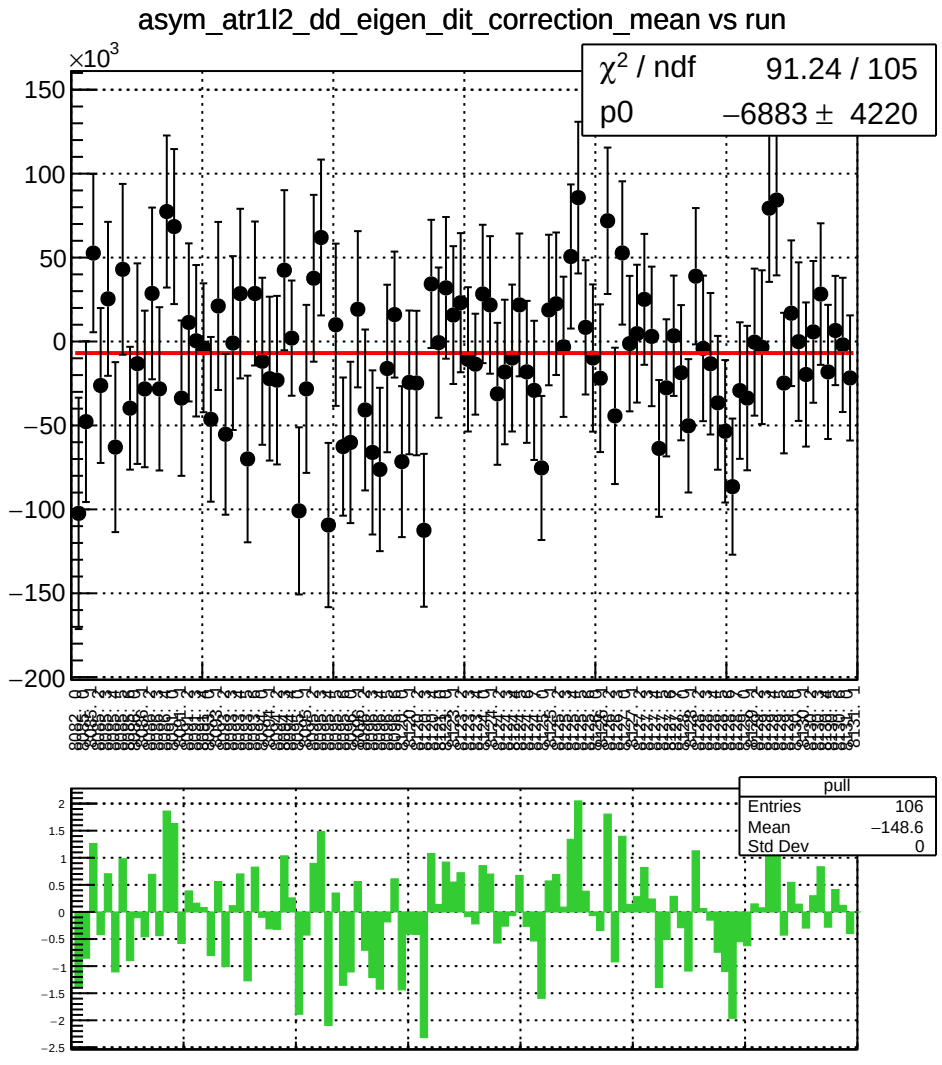

pull1D
Entries 106
Mean −0.01051
Std Dev 0.9277
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

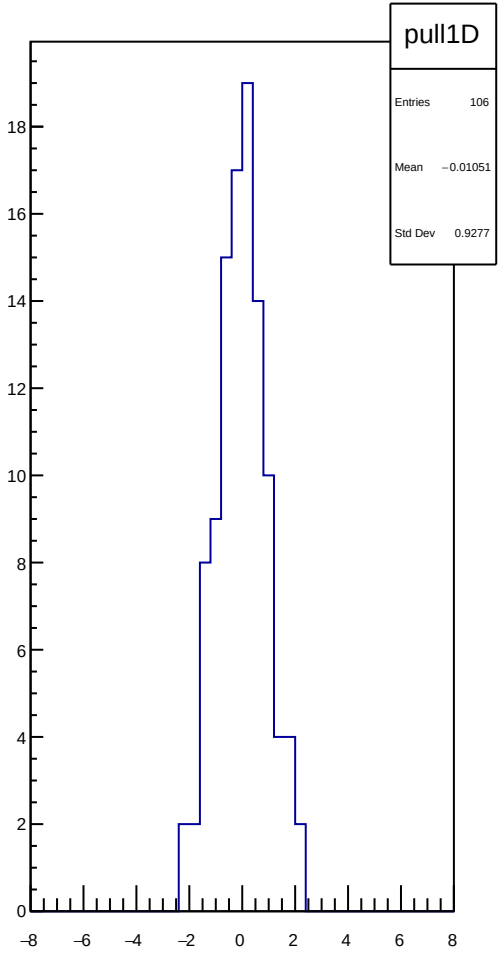

asym_atr1l2_dd_dit_correction_rms vs run
χ² / ndf 1.282e+04 / 105
p0 4231 ± 2.984
5500
5000
4500
4000
3500

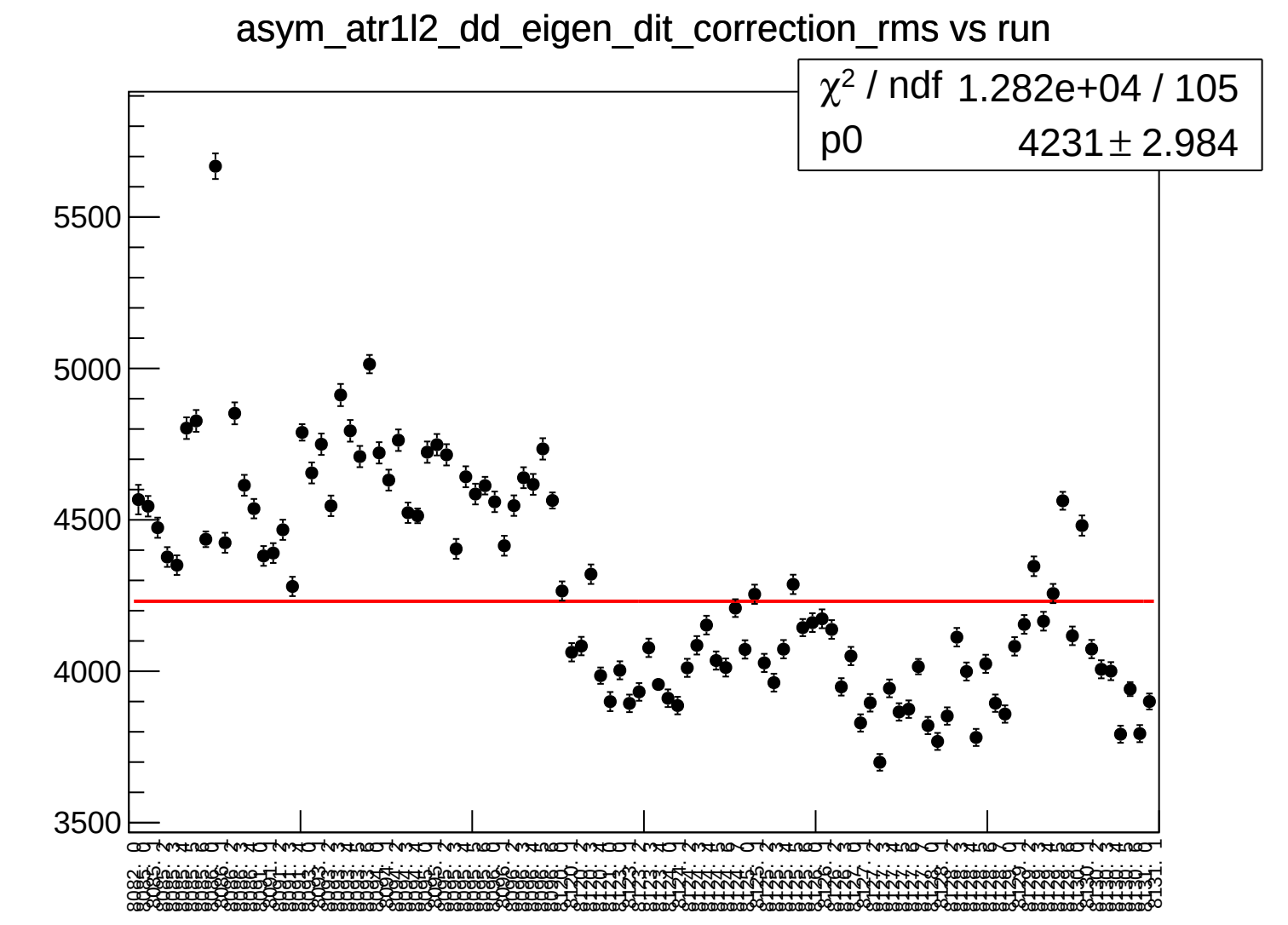

eigen_dit_asym_atr1l2_dd_mean vs run
χ² / ndf 127.1 / 104
p0 531.7 ± 1670
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 105
Mean −141.2
Std Dev 0
2
1
0
−1
−2
−3

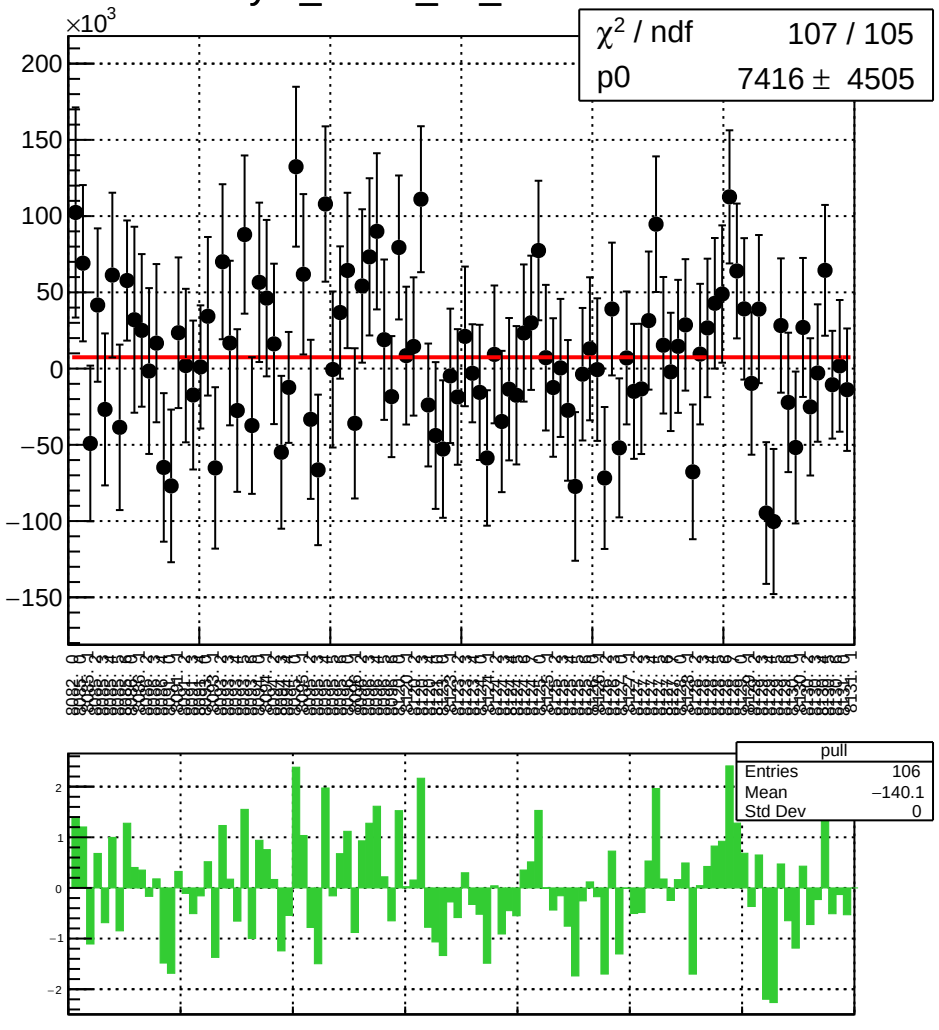

pull1D
Entries 105
Mean 0.01294
Std Dev 1.1
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

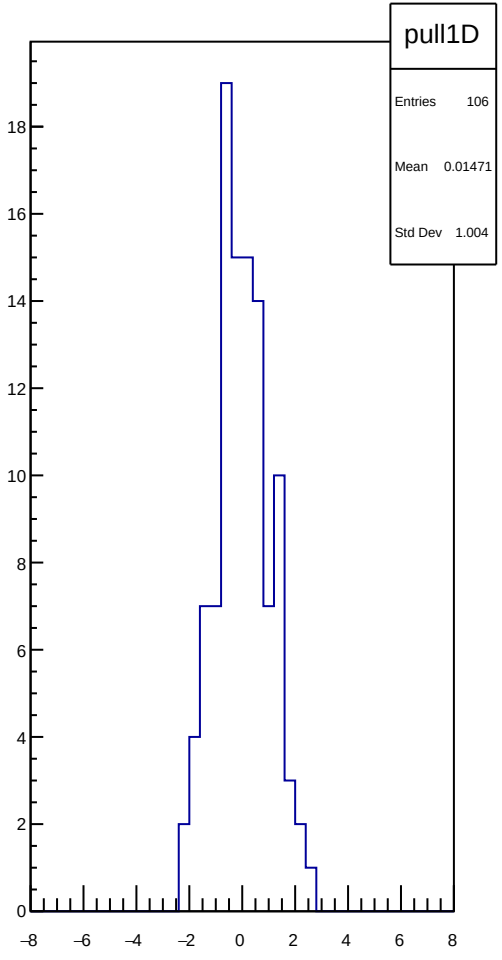

eigen_dit_asym_atr1l2_dd_rms vs run
χ² / ndf 457 / 104
p0 1675 ± 1.181
1760
1740
1720
1700
1680
1660
1640
1620

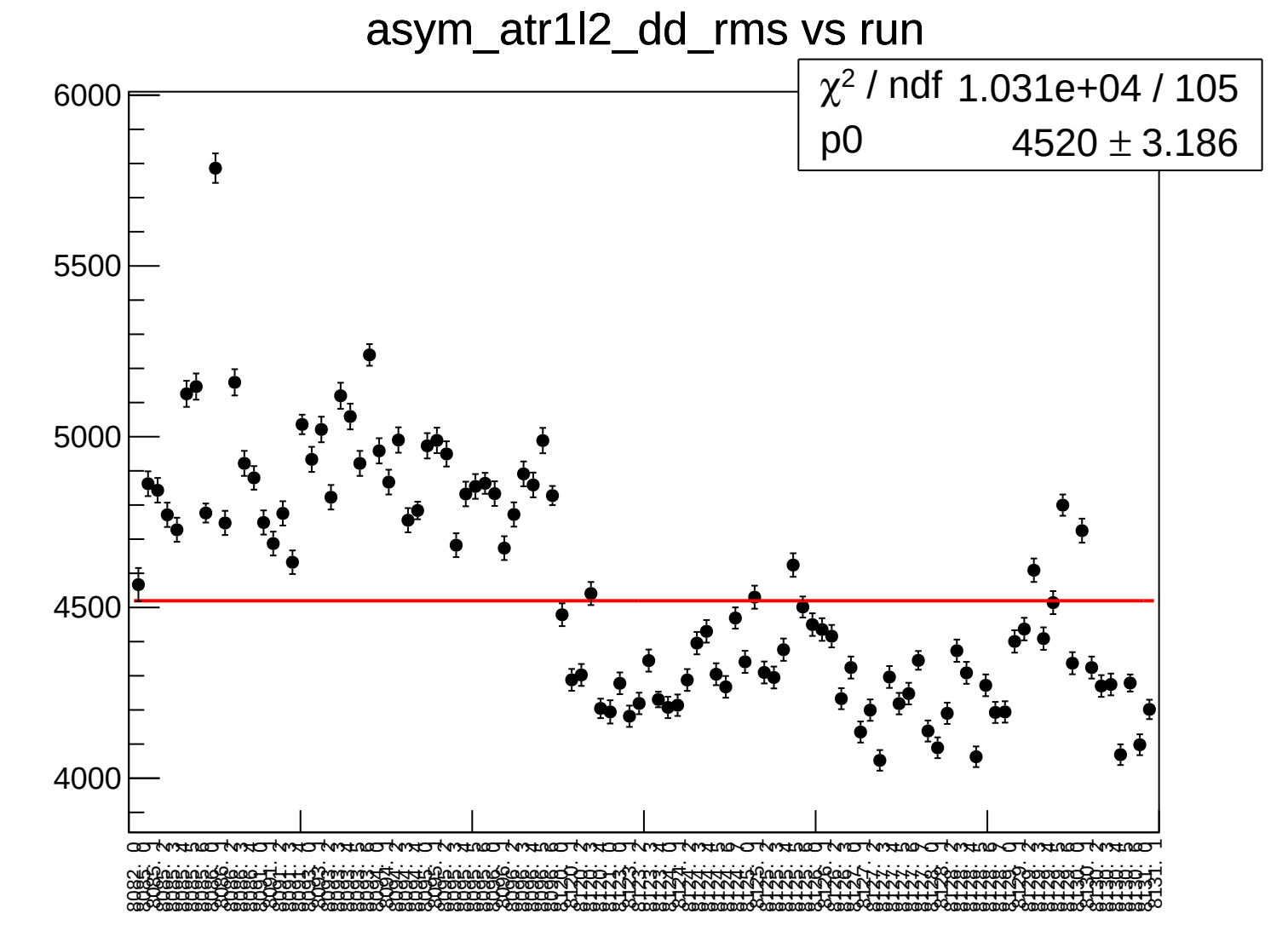

asym_atr1l2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 91.24 / 105
p0 −6883 ± 4220
150
100
50
0
−50
−100
−150
−200
pull
Entries 106
Mean −148.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

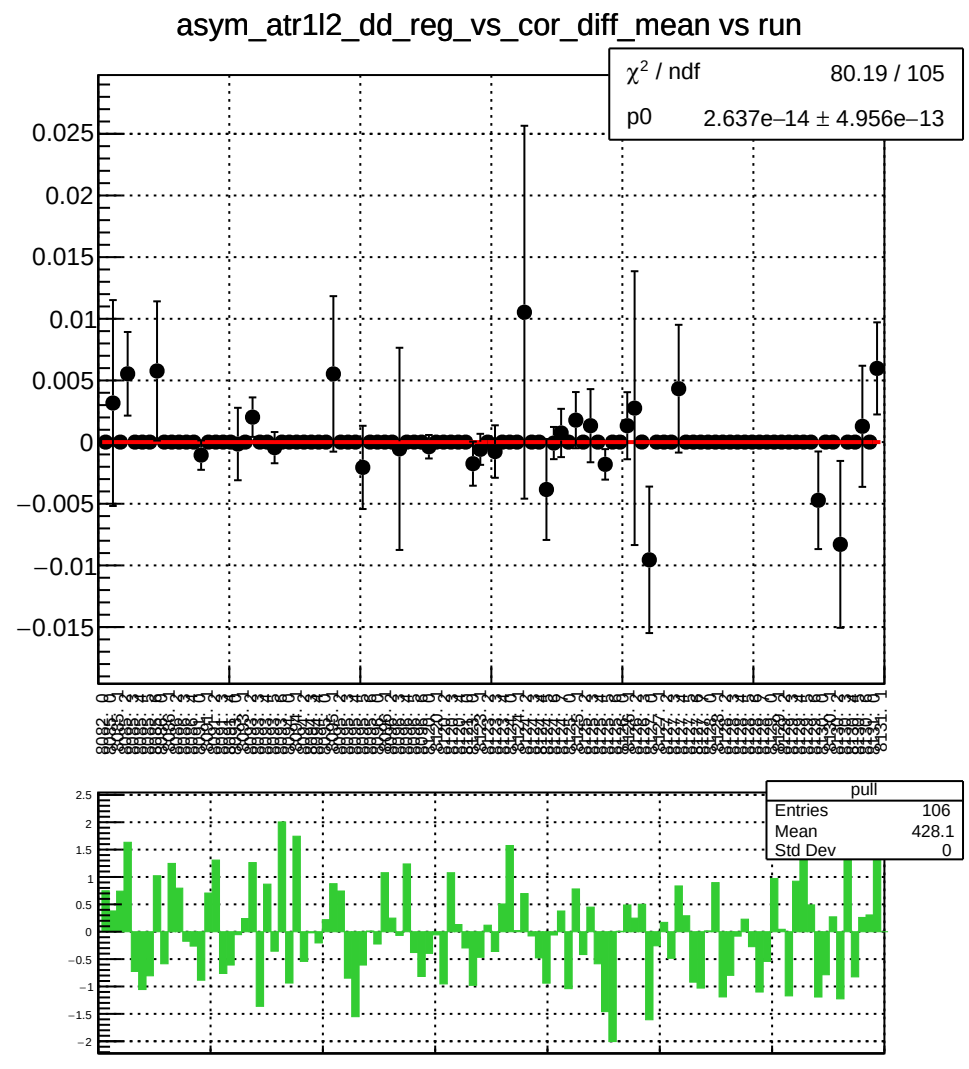

pull1D
Entries 106
Mean −0.01051
Std Dev 0.9277
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

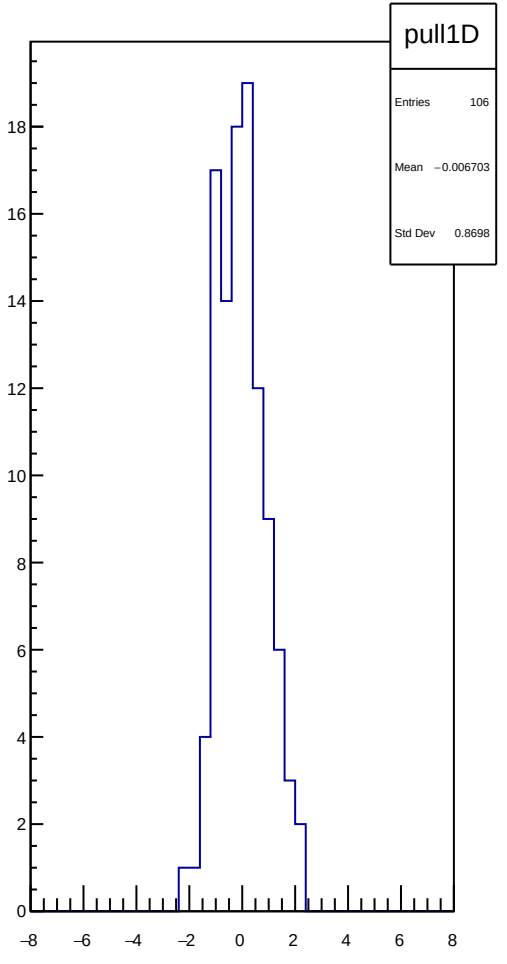

asym_atr1l2_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.282e+04 / 105
p0 4231 ± 2.984
5500
5000
4500
4000
3500

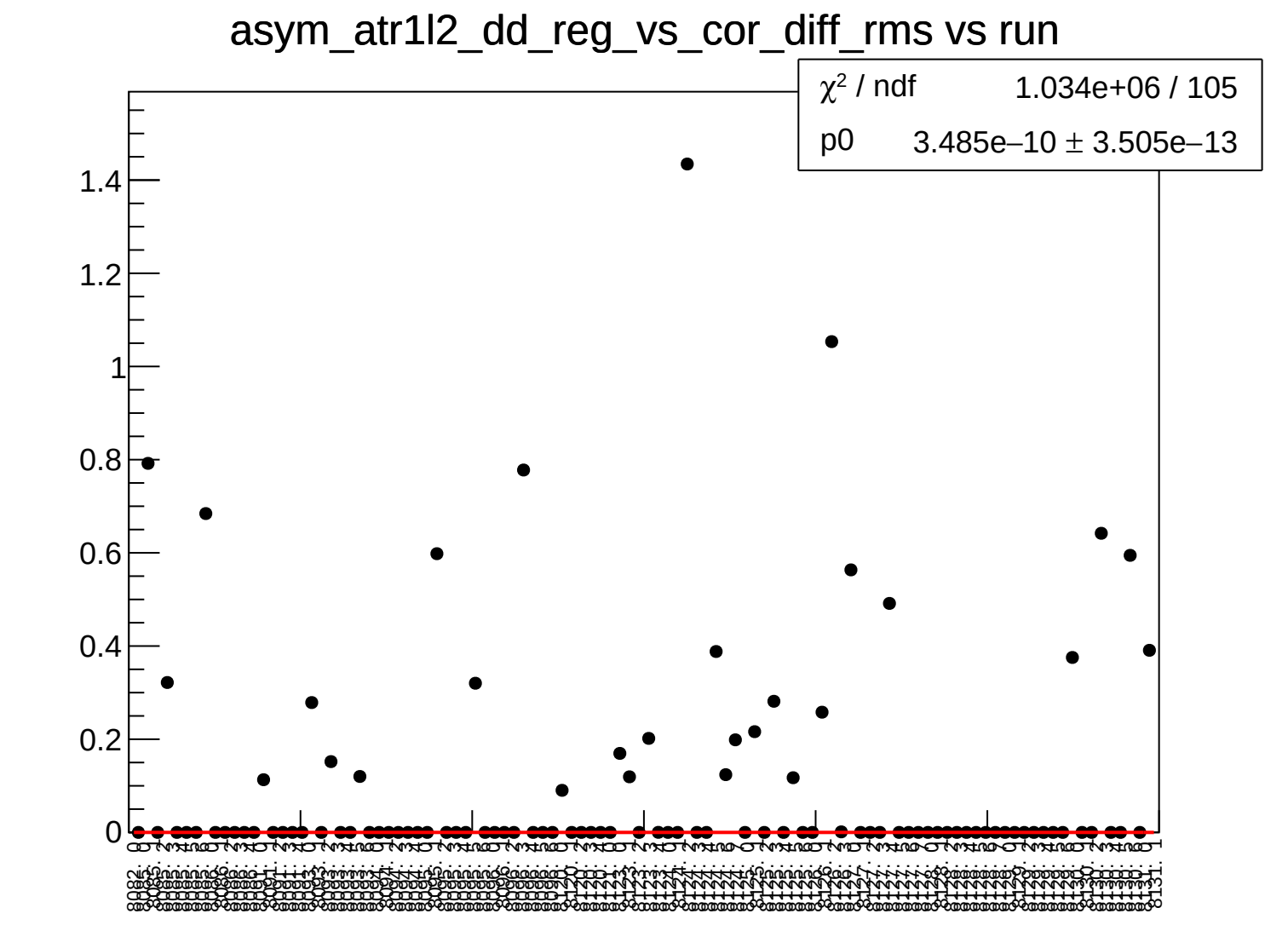

asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 107 / 105
p0 7416 ± 4505
pull
Entries 106
Mean −140.1
Std Dev 0

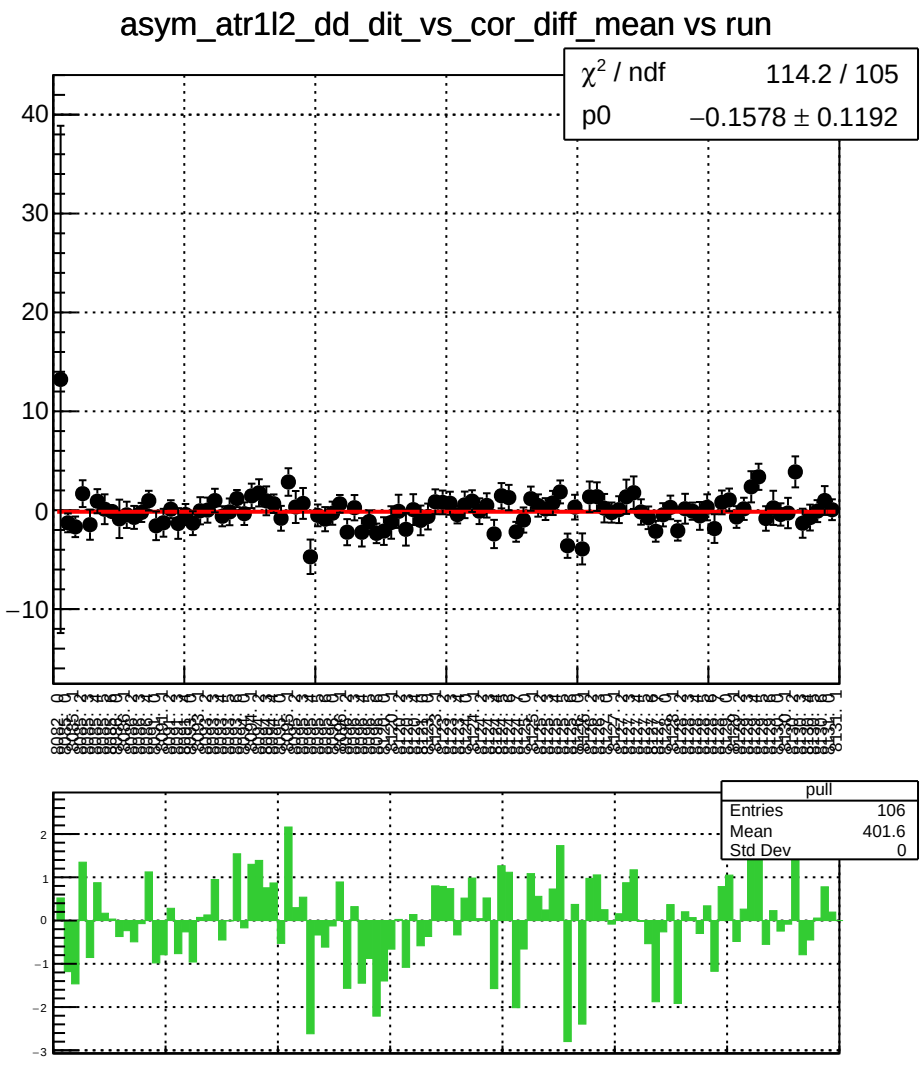

pull1D
Entries 106
Mean 0.01471
Std Dev 1.004

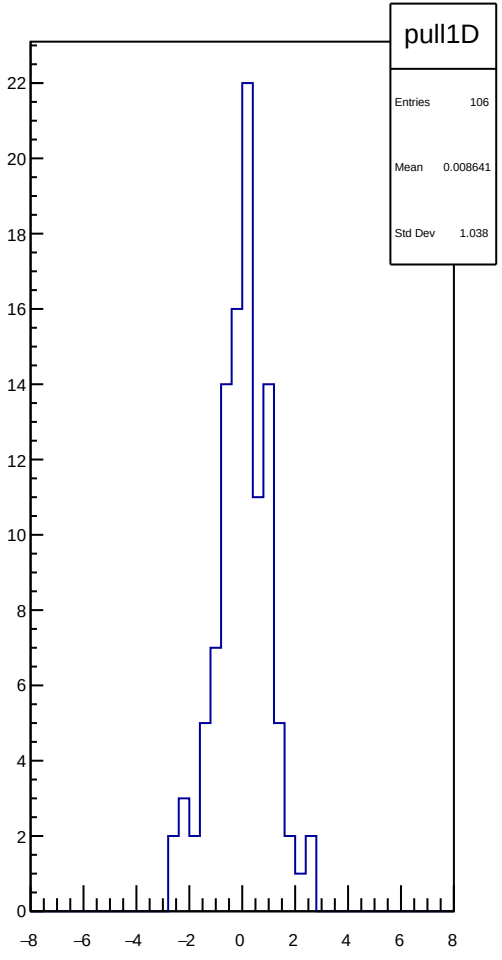

asym_atr1l2_dd_rms vs run
χ² / ndf 1.031e+04 / 105
p0 4520 ± 3.186
6000
5500
5000
4500
4000

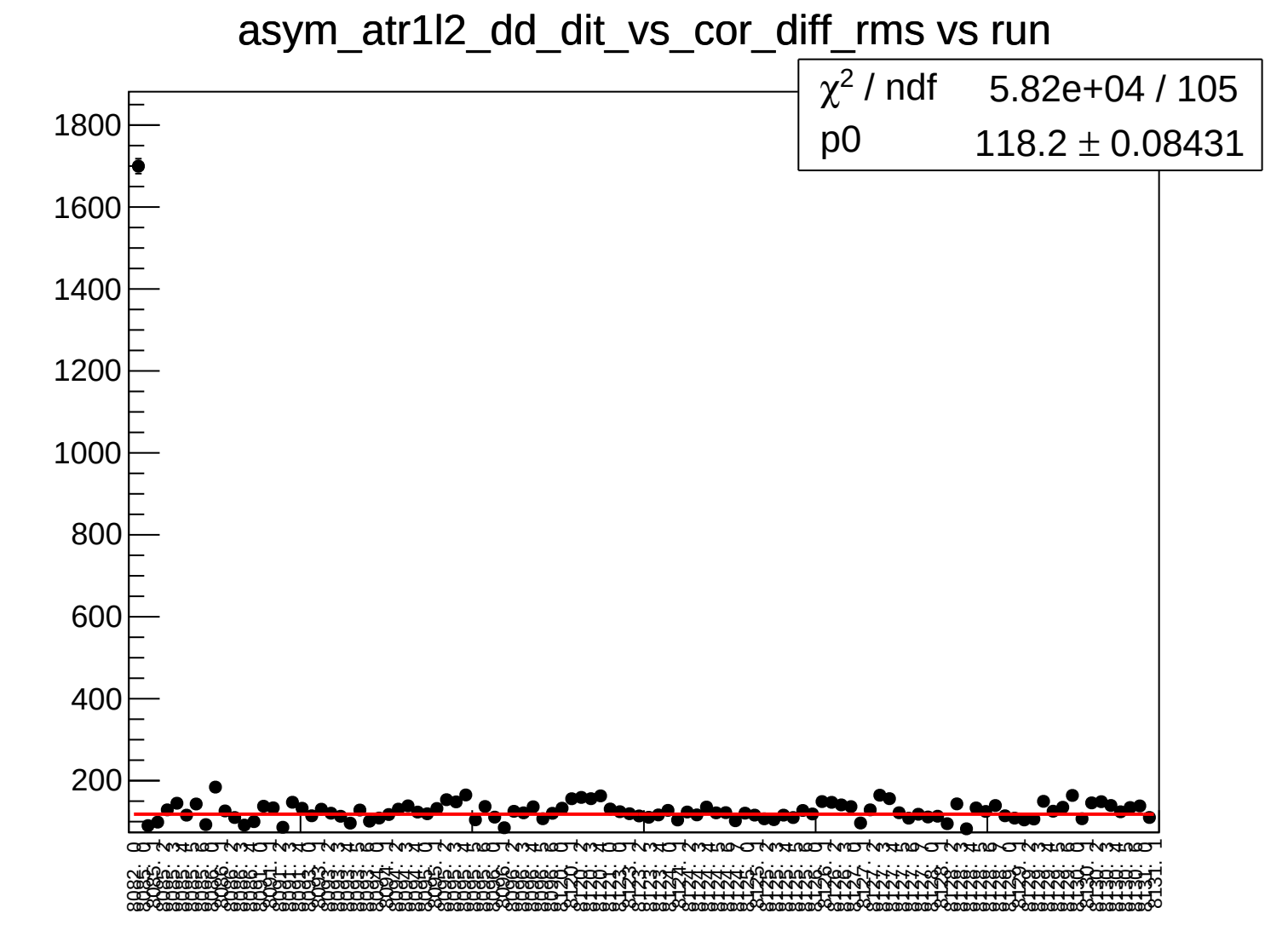

asym_atr1l2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 80.19 / 105
p0 2.637e−14 ± 4.956e−13
0.025
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 106
Mean 428.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

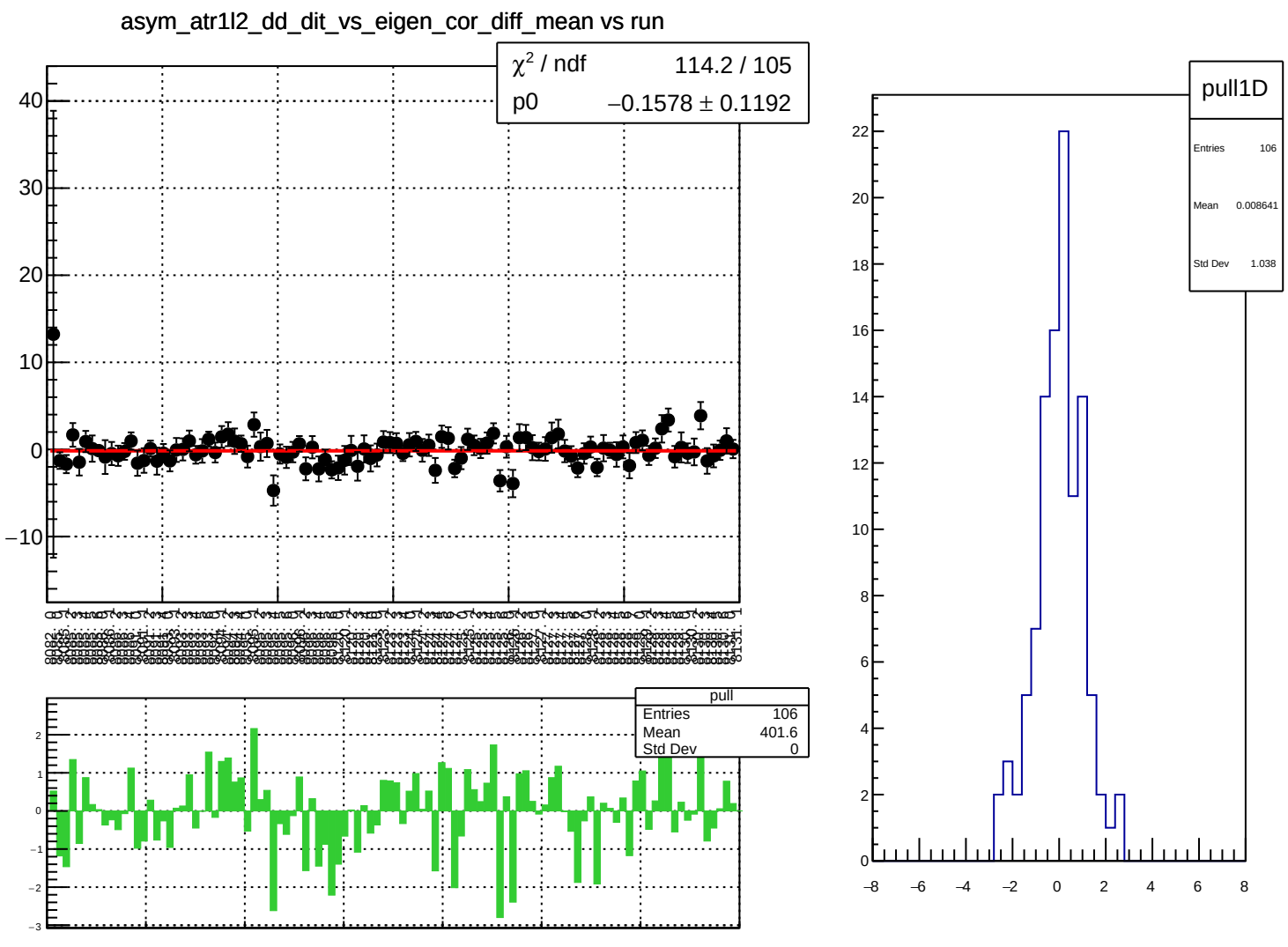

pull1D
Entries 106
Mean −0.006703
Std Dev 0.8698
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

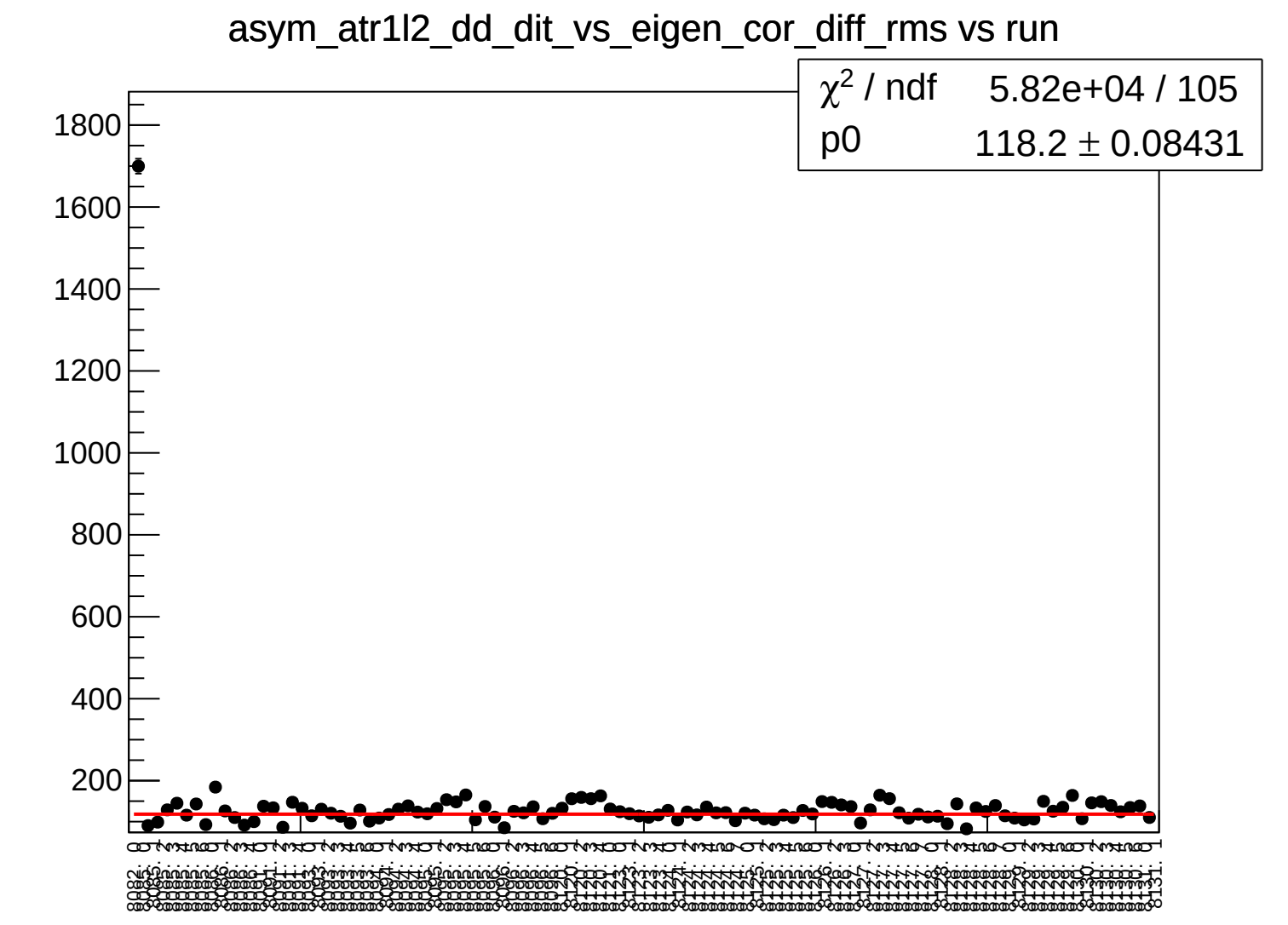

asym_atr1l2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.034e+06 / 105
p0 3.485e−10 ± 3.505e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

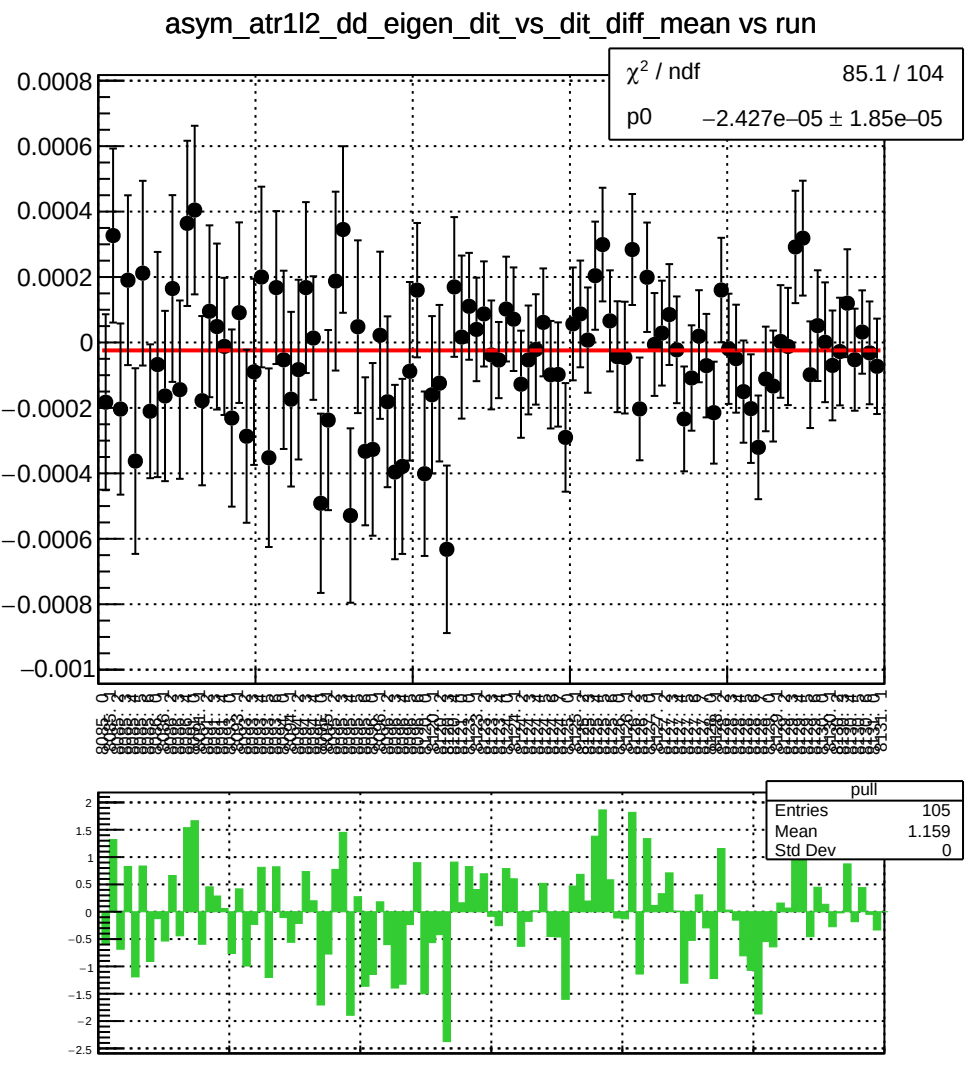

asym_atr1l2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 114.2 / 105
p0 −0.1578 ± 0.1192
pull
Entries 106
Mean 401.6
Std Dev 0

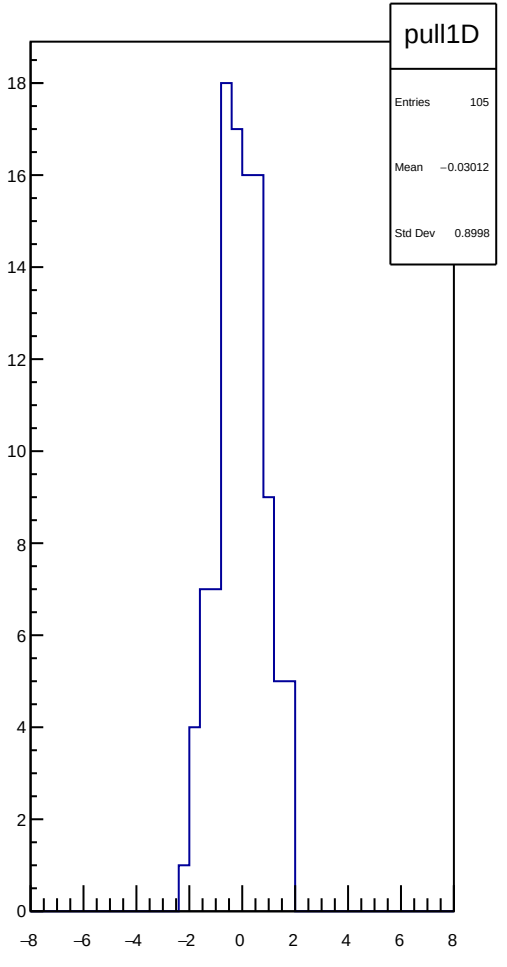

pull1D
Entries 106
Mean 0.008641
Std Dev 1.038

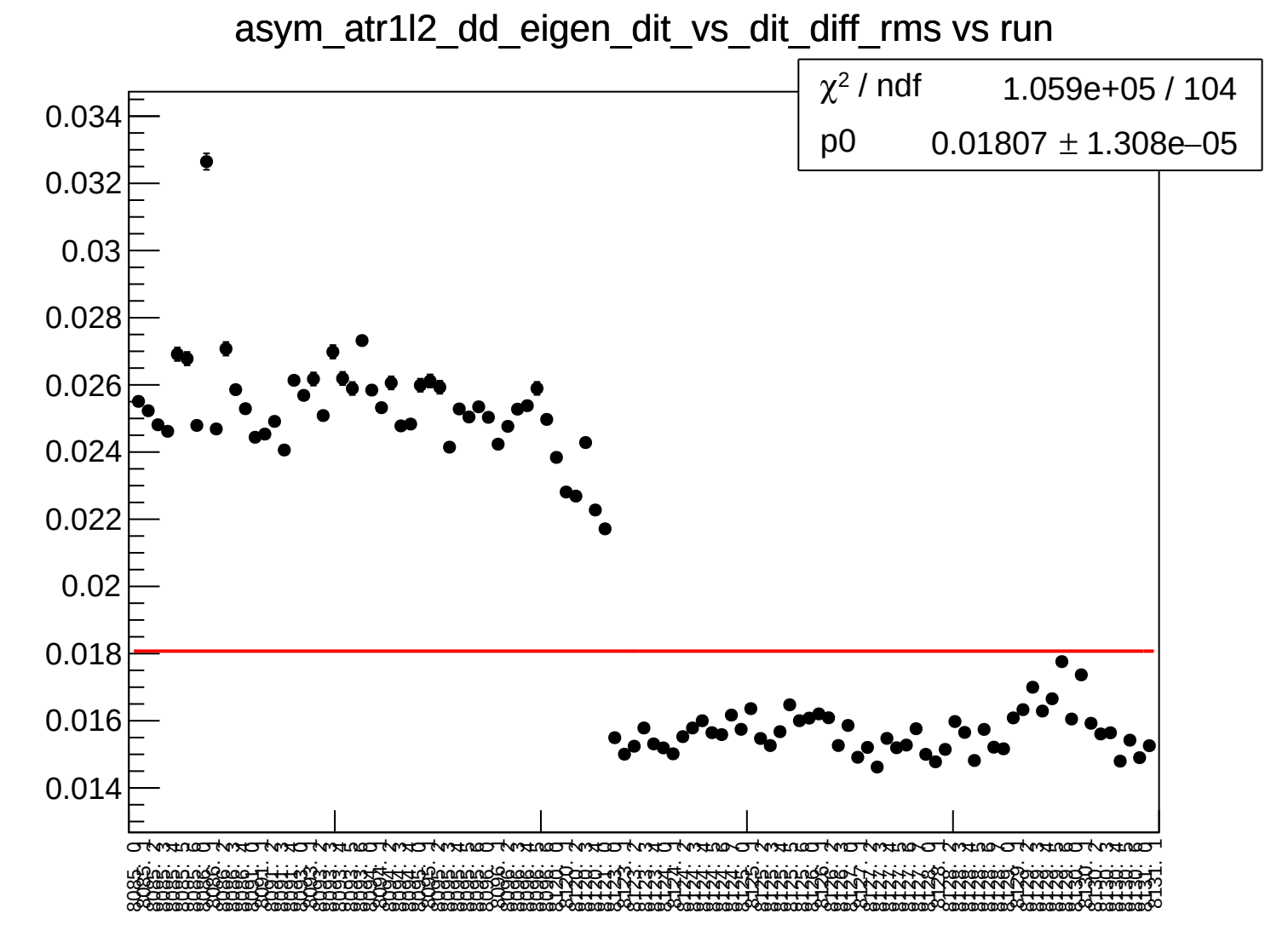

asym_atr1l2_dd_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 5.82e+04 / 105
p0 118.2 ± 0.08431
1800
1600
1400
1200
1000
800
600
400
200

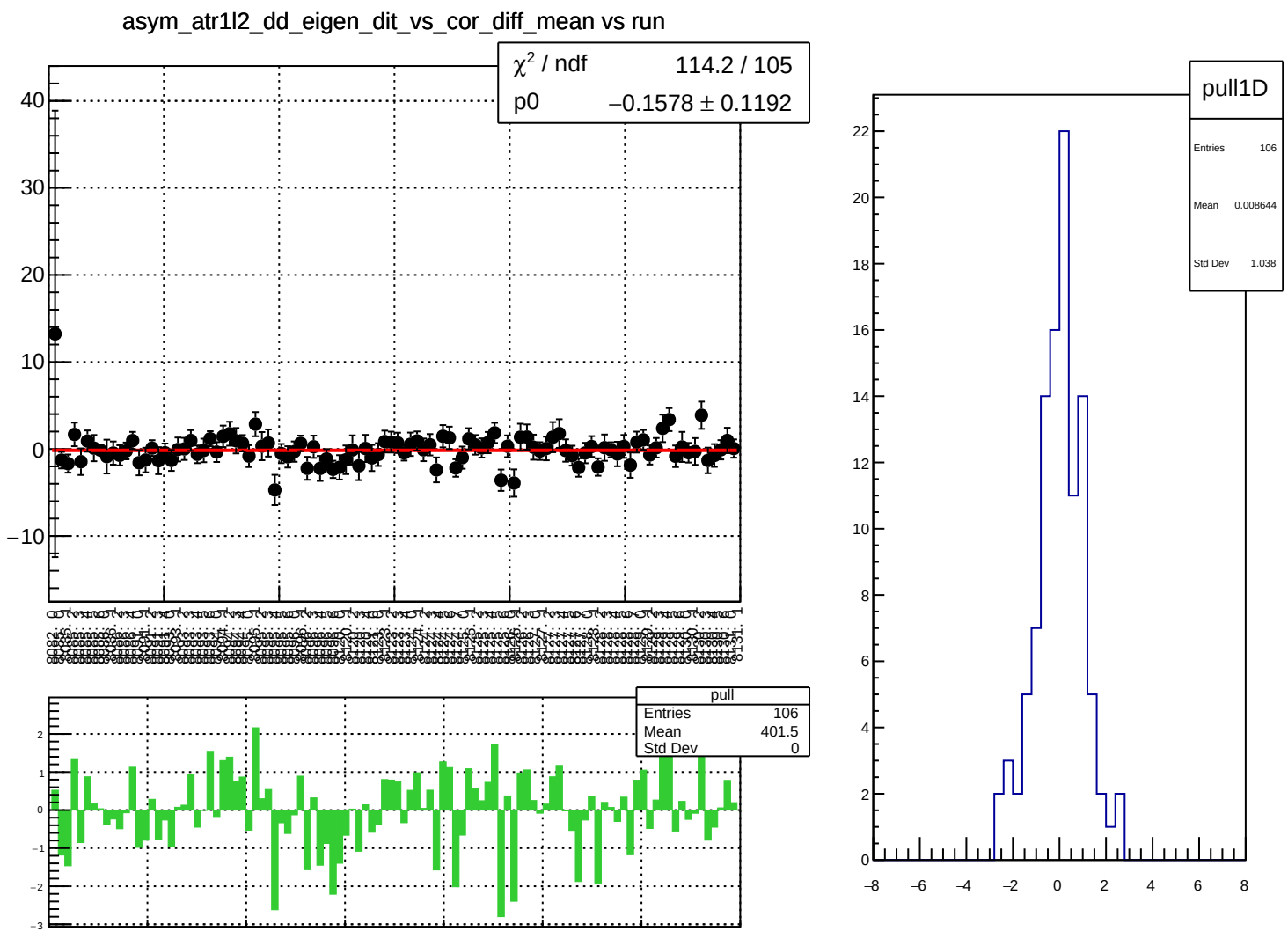

asym_atr1l2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 114.2 / 105
p0 −0.1578 ± 0.1192
pull
Entries 106
Mean 401.6
Std Dev 0
pull1D
Entries 106
Mean 0.008641
Std Dev 1.038

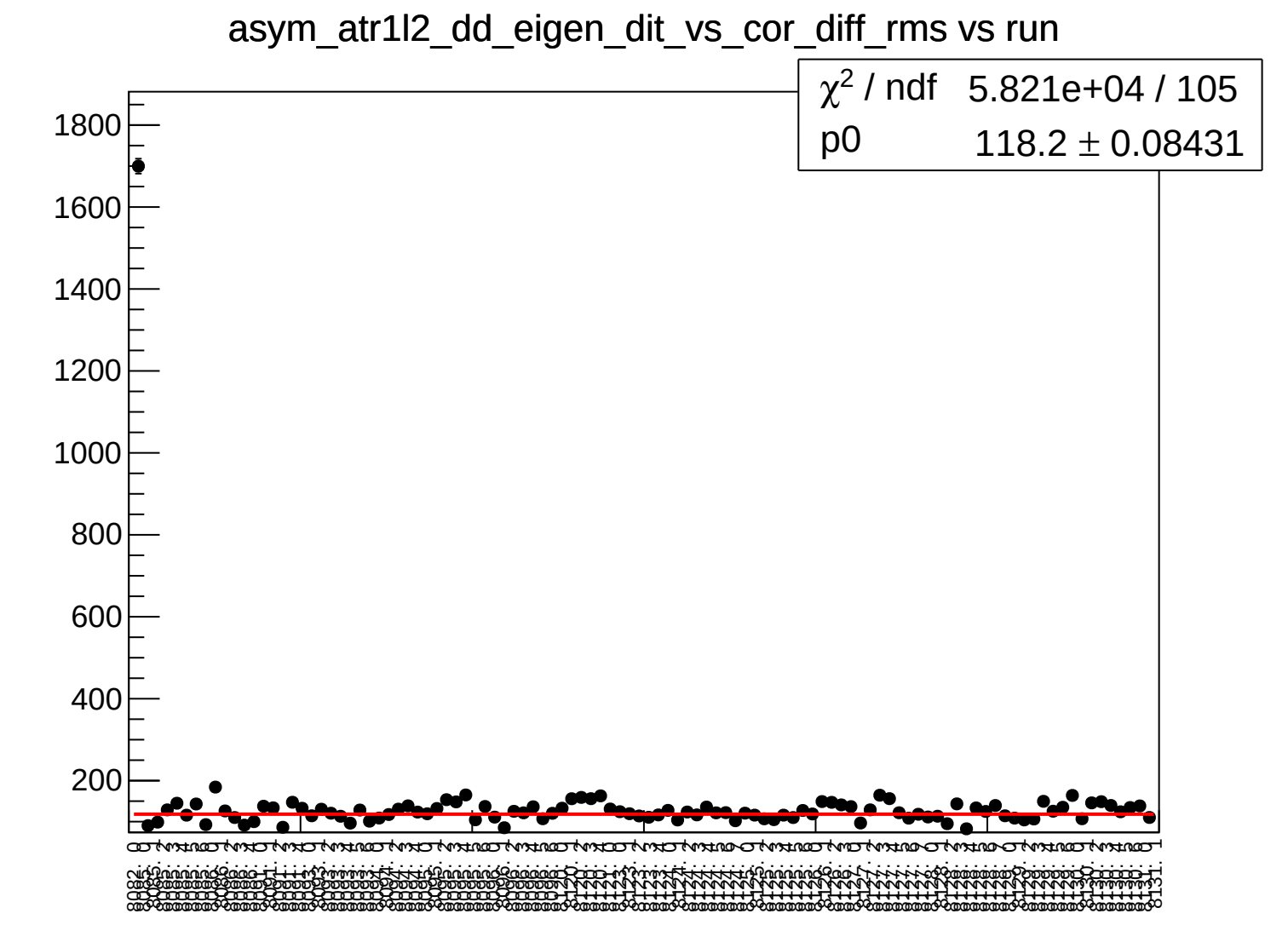

asym_atr1l2_dd_dit_vs_eigen_cor_diff_rms vs run
$\chi^2$ / ndf 5.82e+04 / 105
p0 118.2 ± 0.08431
1800
1600
1400
1200
1000
800
600
400
200

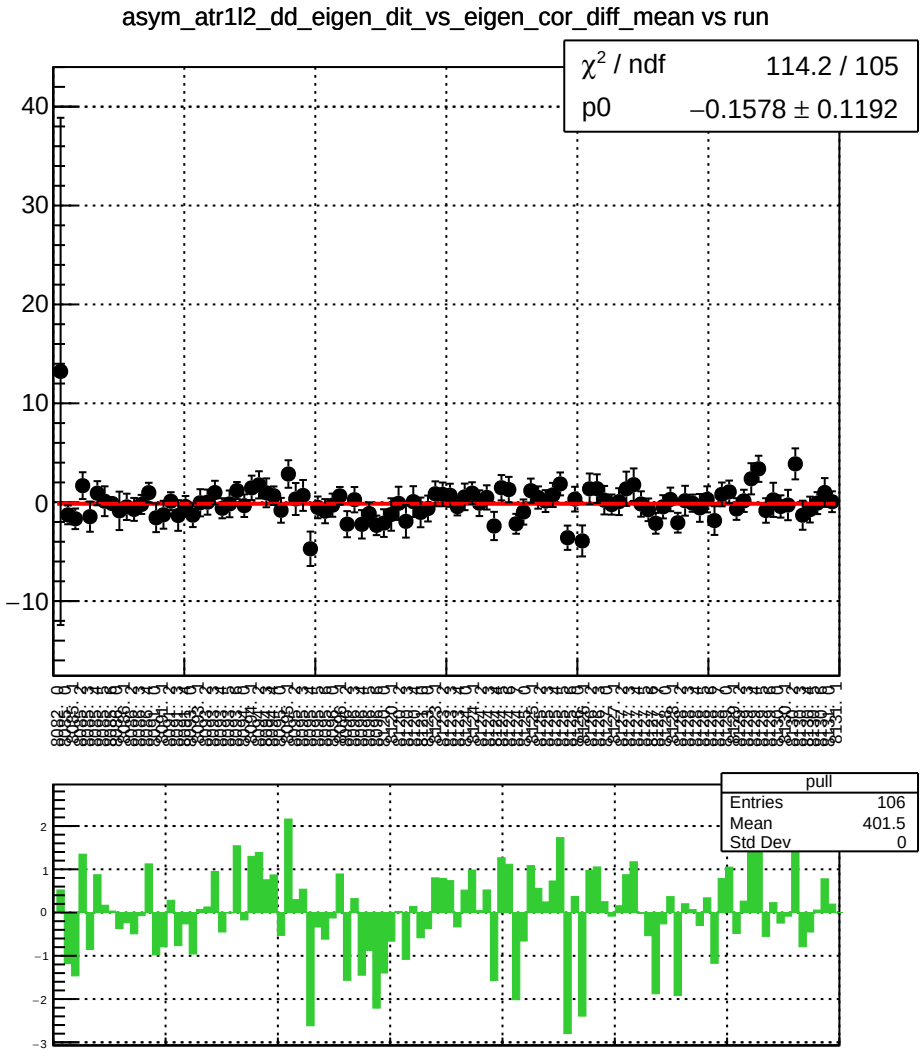

asym_atr1l2_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 85.1 / 104
p0 −2.427e−05 ± 1.85e−05
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 105
Mean 1.159
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

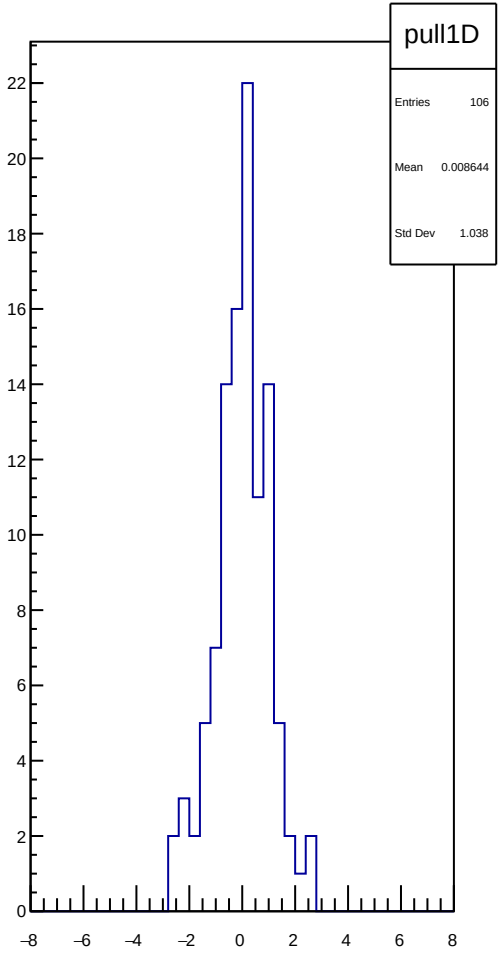

pull1D
Entries 105
Mean −0.03012
Std Dev 0.8998
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

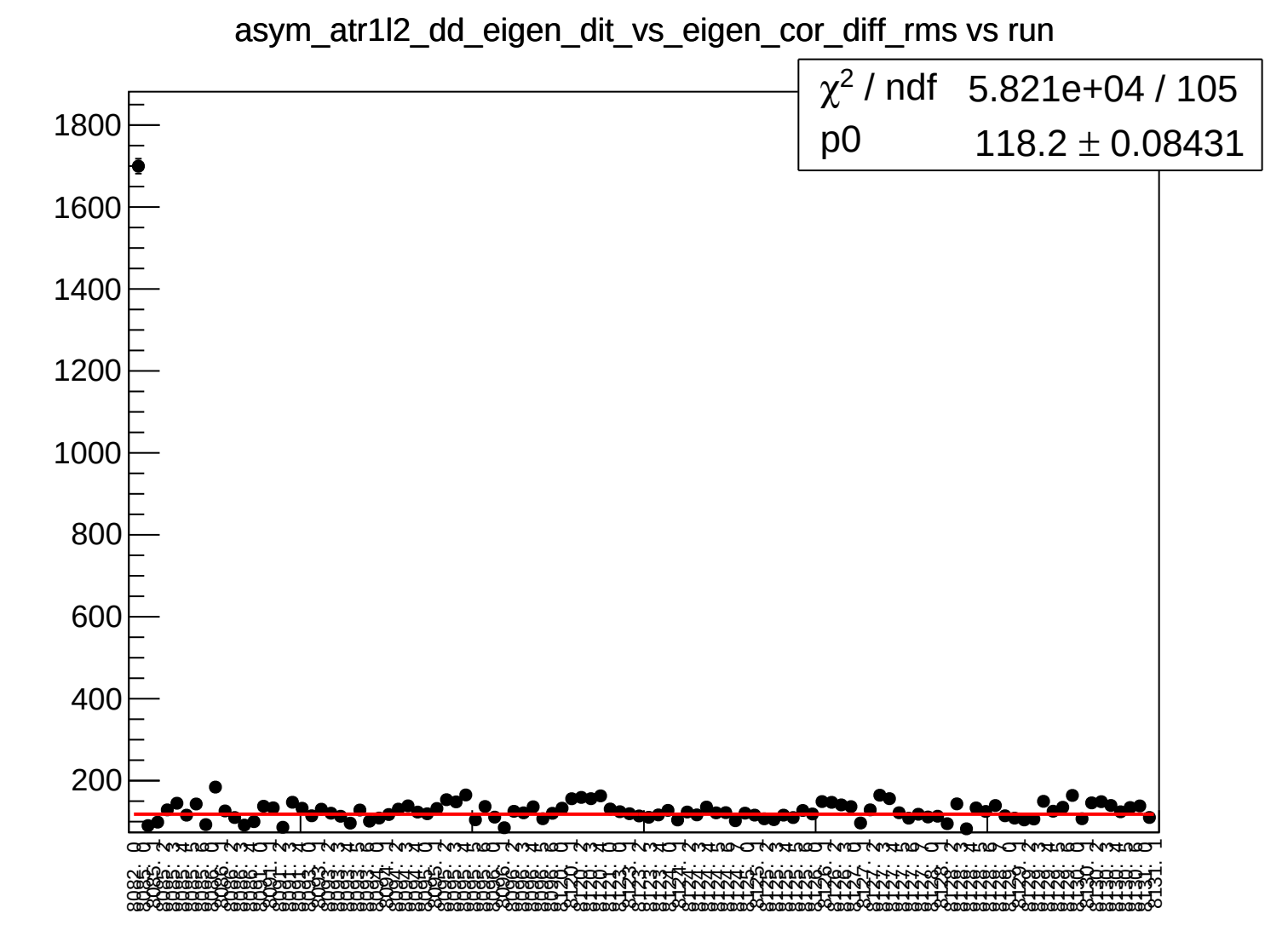

asym_atr1l2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.059e+05 / 104
p0 0.01807 ± 1.308e–05
0.034
0.032
0.03
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014

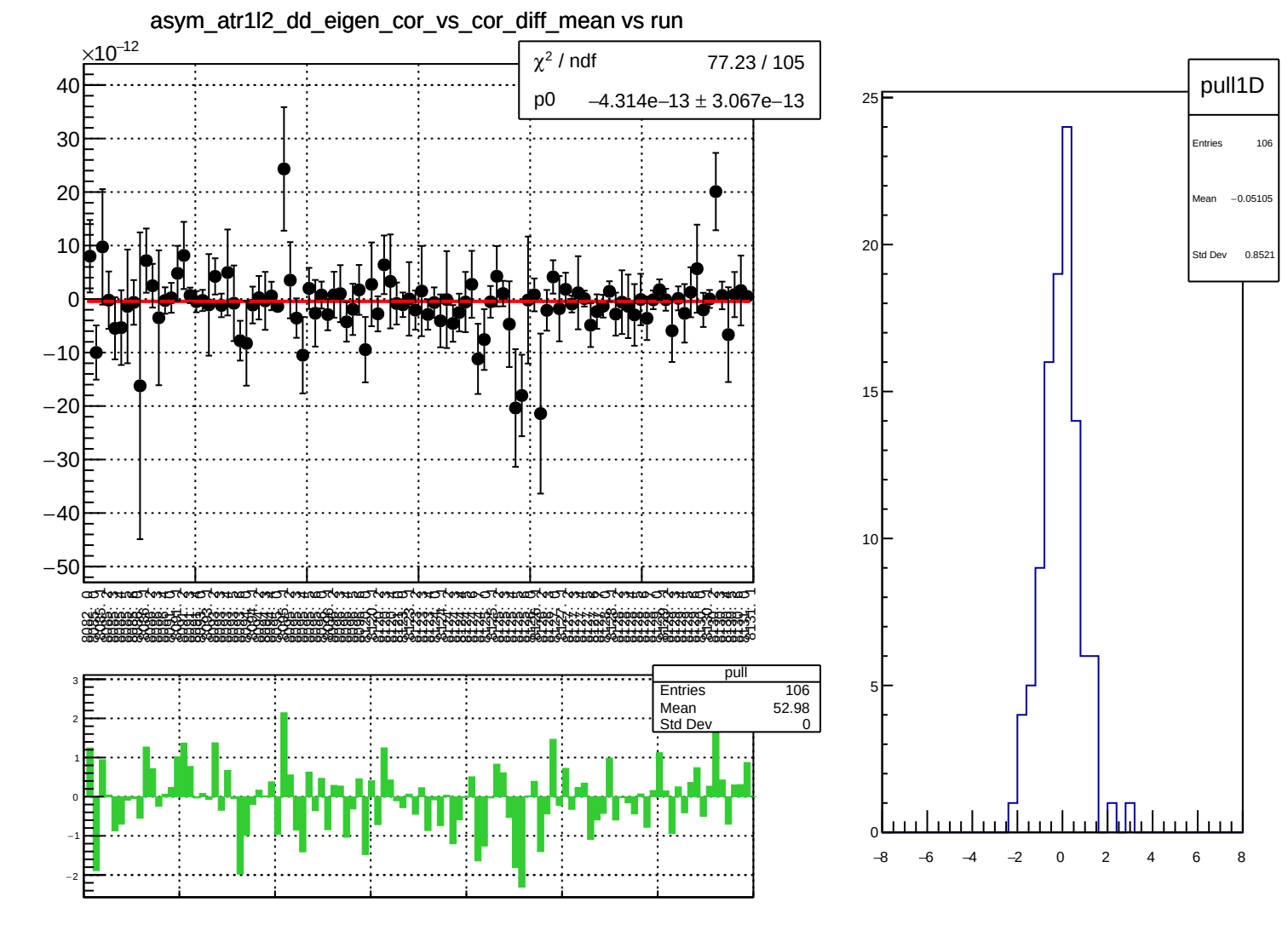

asym_atr1l2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 114.2 / 105
p0 −0.1578 ± 0.1192
pull
Entries 106
Mean 401.5
Std Dev 0
pull1D
Entries 106
Mean 0.008644
Std Dev 1.038

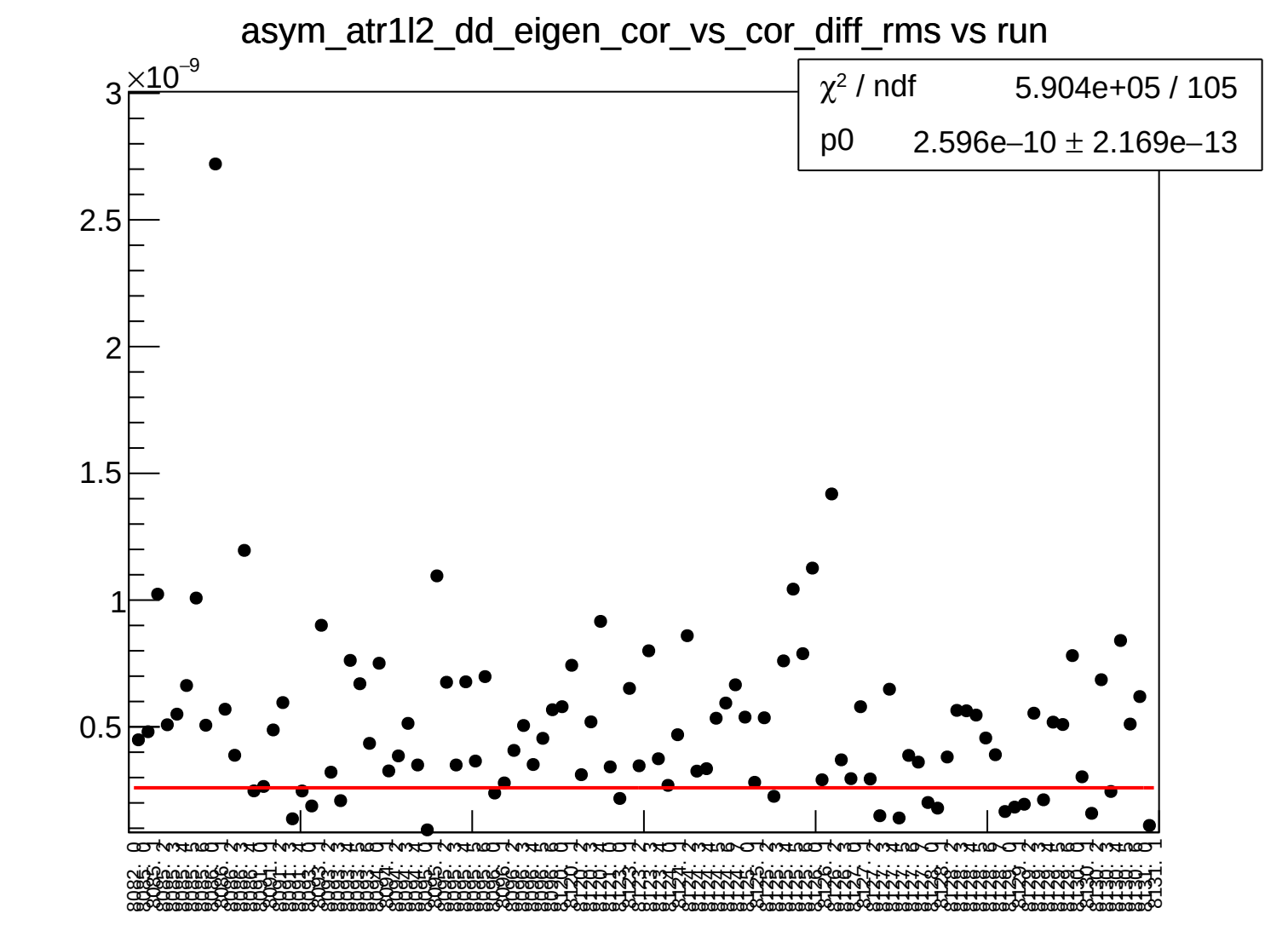

asym_atr1l2_dd_eigen_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 5.821e+04 / 105
p0 118.2 ± 0.08431
1800
1600
1400
1200
1000
800
600
400
200

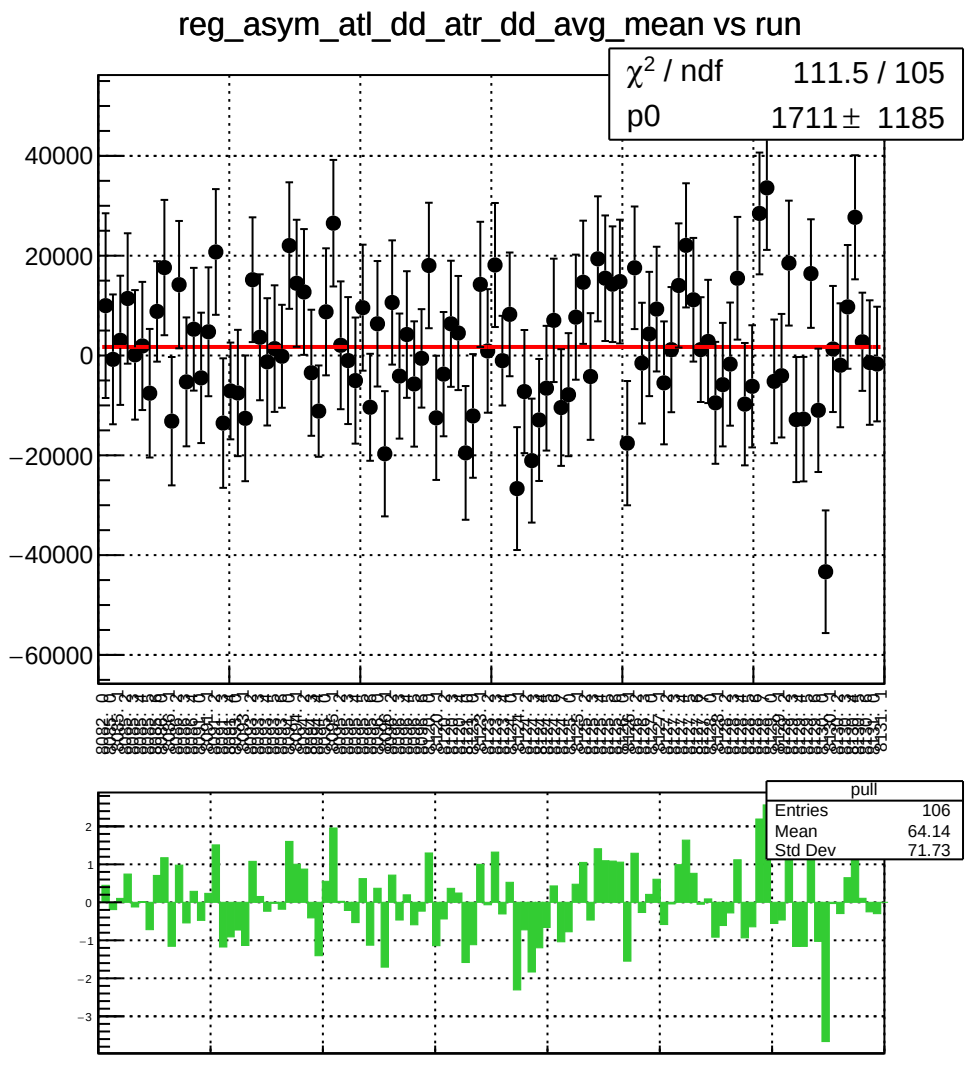

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 114.2 / 105
p0 −0.1578 ± 0.1192
pull
Entries 106
Mean 401.5
Std Dev 0

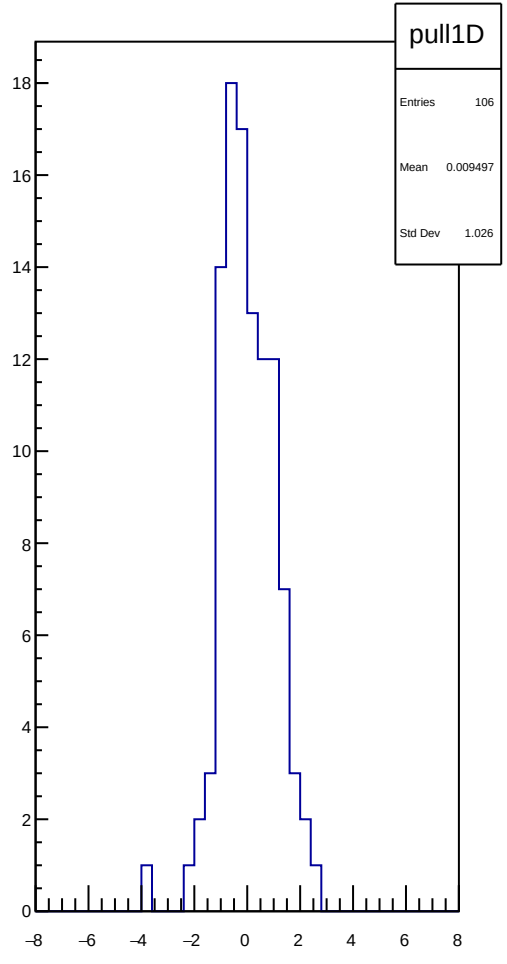

pull1D
Entries 106
Mean 0.008644
Std Dev 1.038

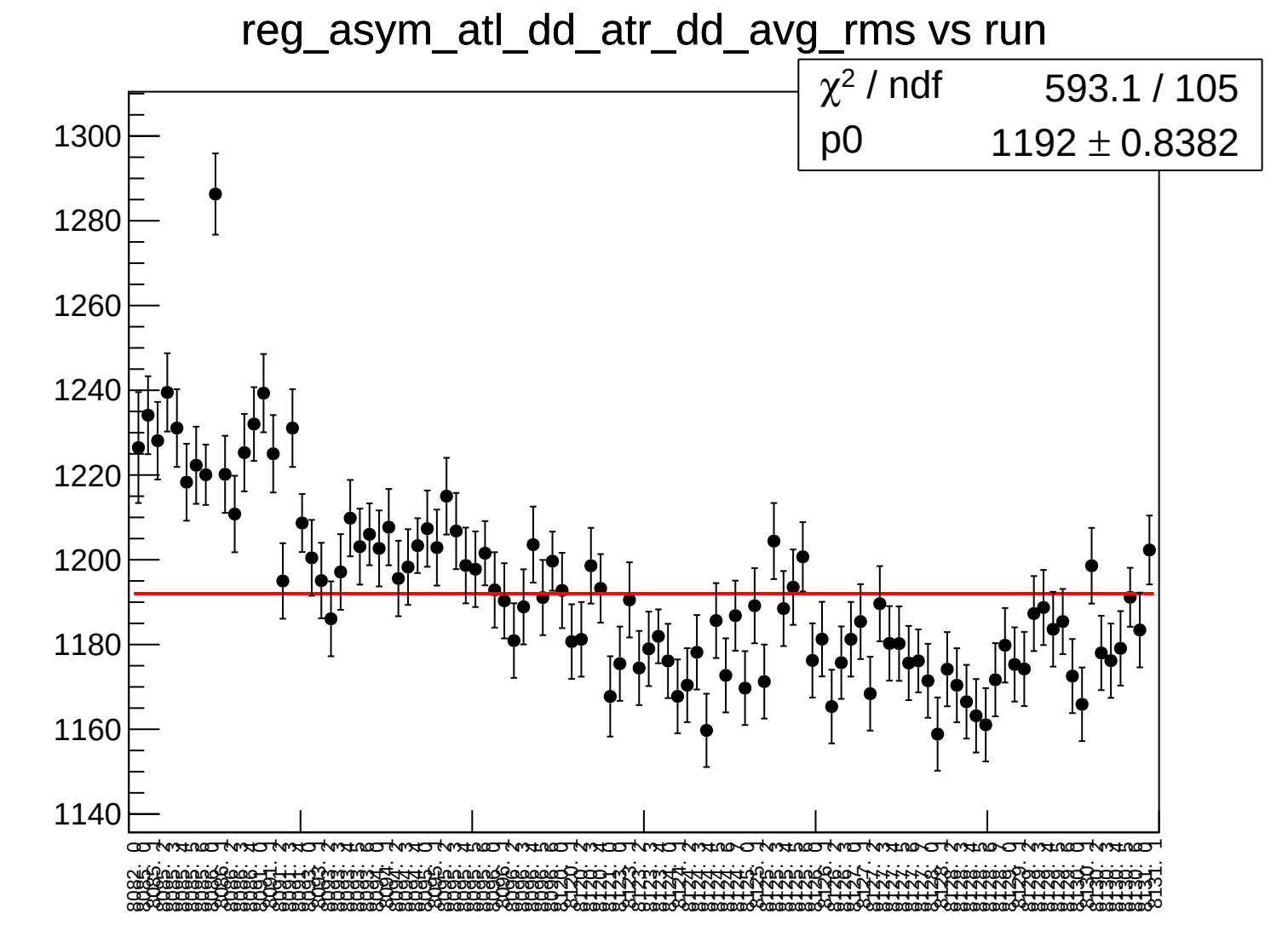

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.821e+04 / 105
p0 118.2 ± 0.08431
1800
1600
1400
1200
1000
800
600
400
200

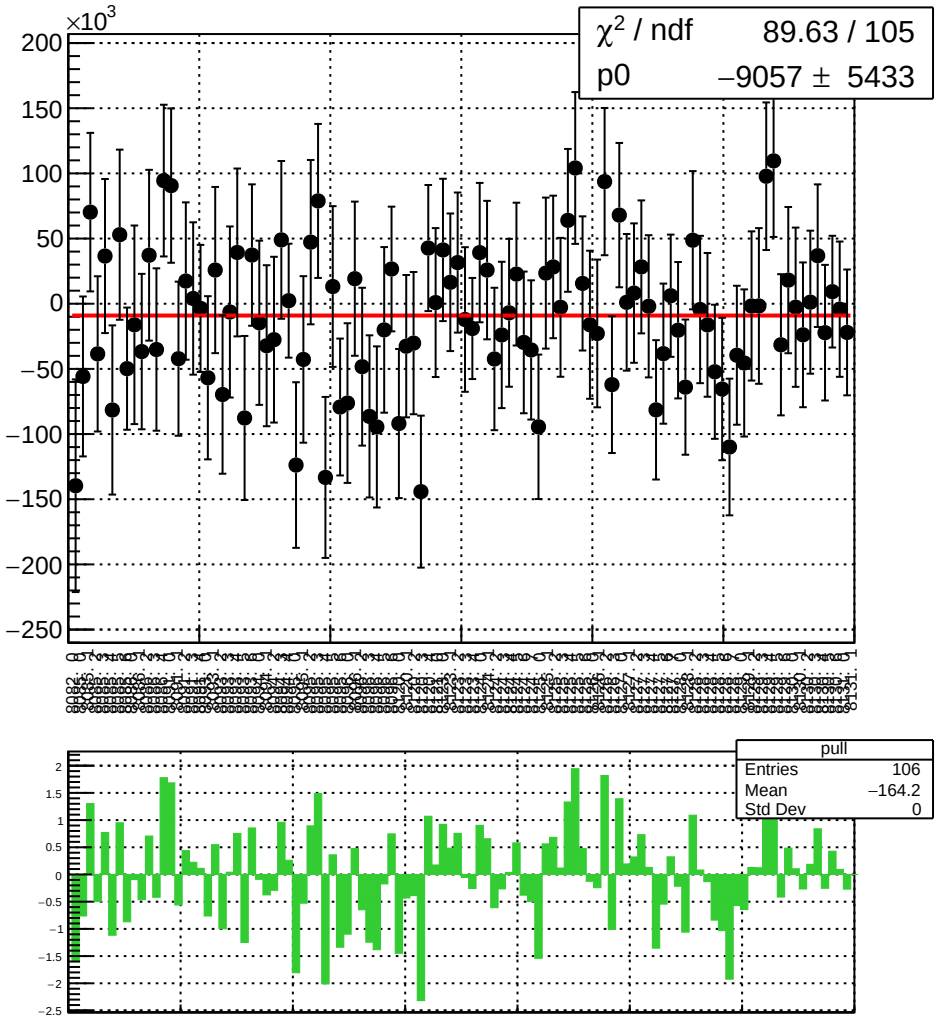

asym_atr1l2_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 77.23 / 105
p0 −4.314e−13 ± 3.067e−13
pull
Entries 106
Mean 52.98
Std Dev 0
pull1D
Entries 106
Mean −0.05105
Std Dev 0.8521

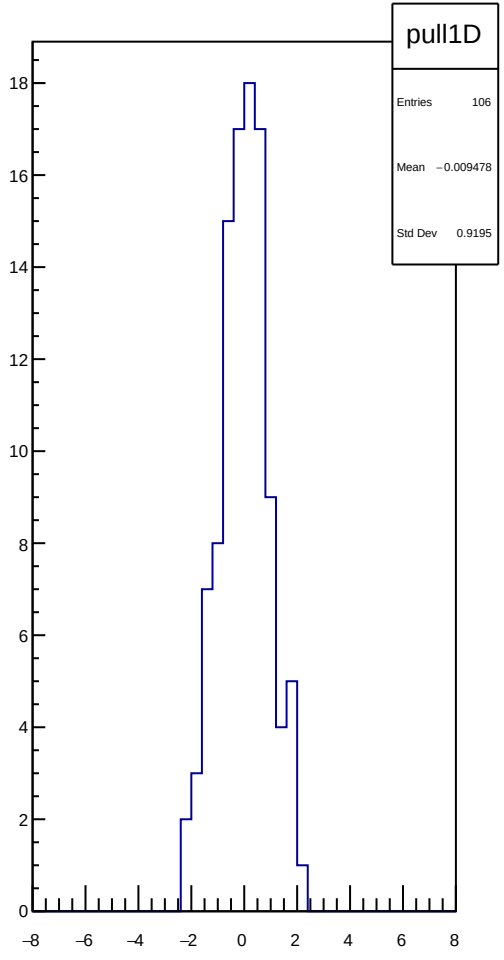

asym_atr1l2_dd_eigen_cor_vs_cor_diff_rms vs run
$\chi^2$ / ndf 5.904e+05 / 105
p0 2.596e−10 ± 2.169e−13
×10⁻⁹
3
2.5
2
1.5
1
0.5

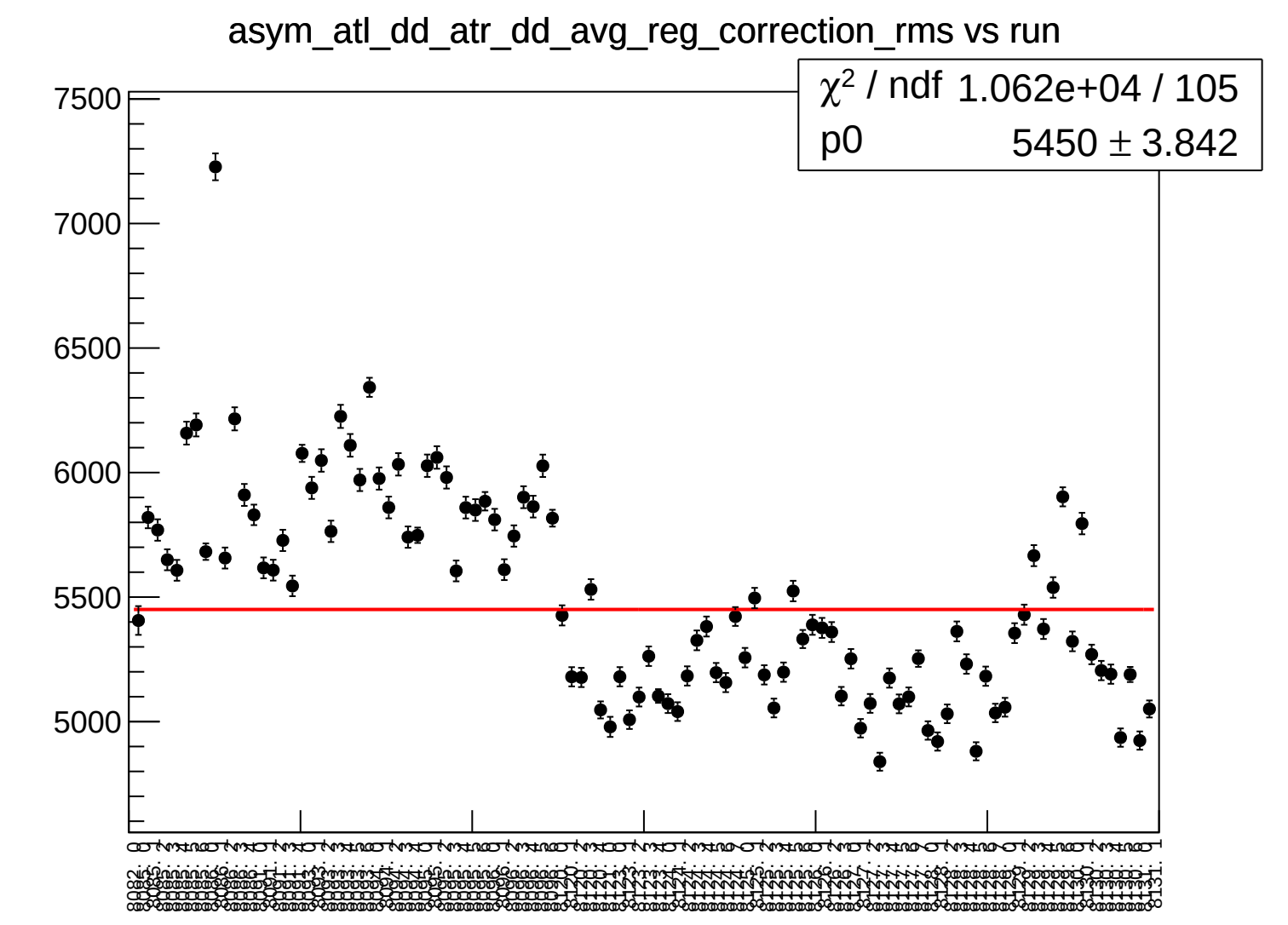

reg_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 111.5 / 105
p0 1711 ± 1185
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean 64.14
Std Dev 71.73
2
1
0
−1
−2
−3

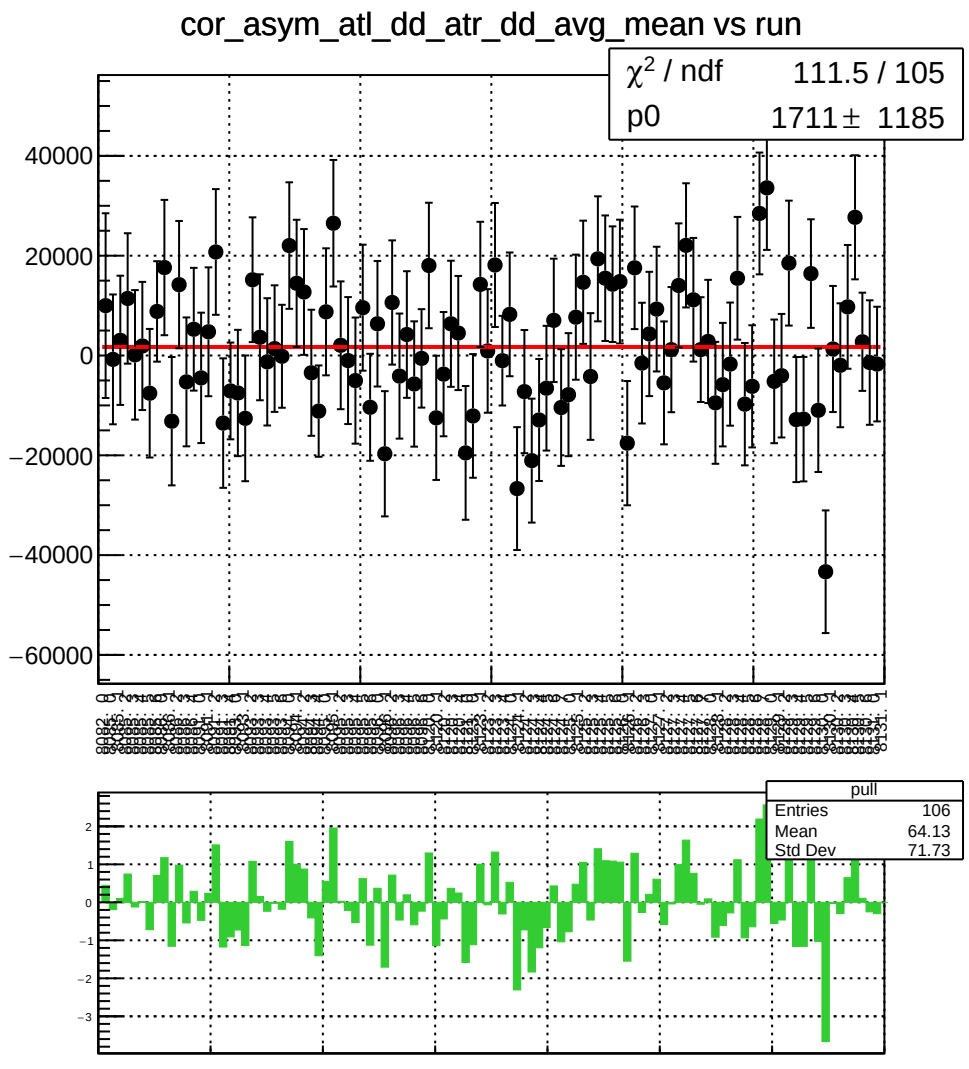

pull1D
Entries 106
Mean 0.009497
Std Dev 1.026
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

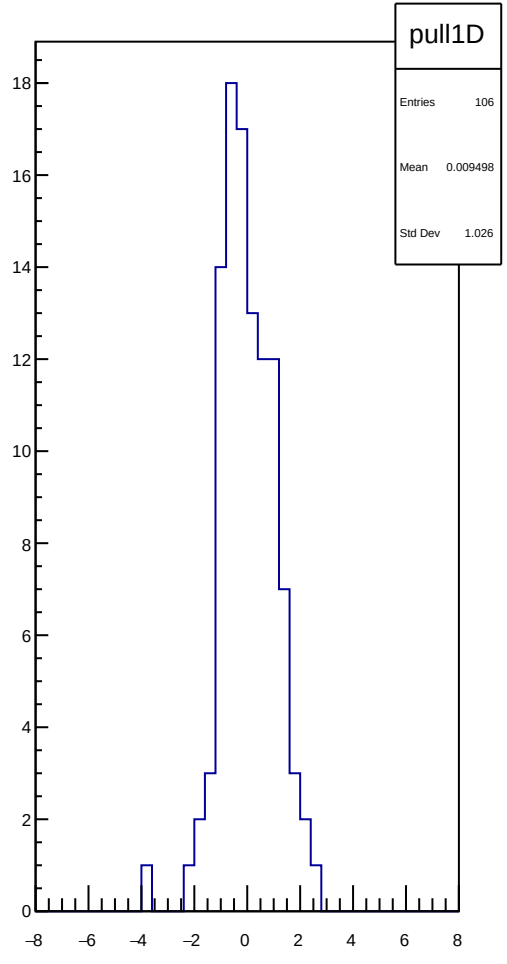

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 593.1 / 105
p0 1192 ± 0.8382
1300
1280
1260
1240
1220
1200
1180
1160
1140

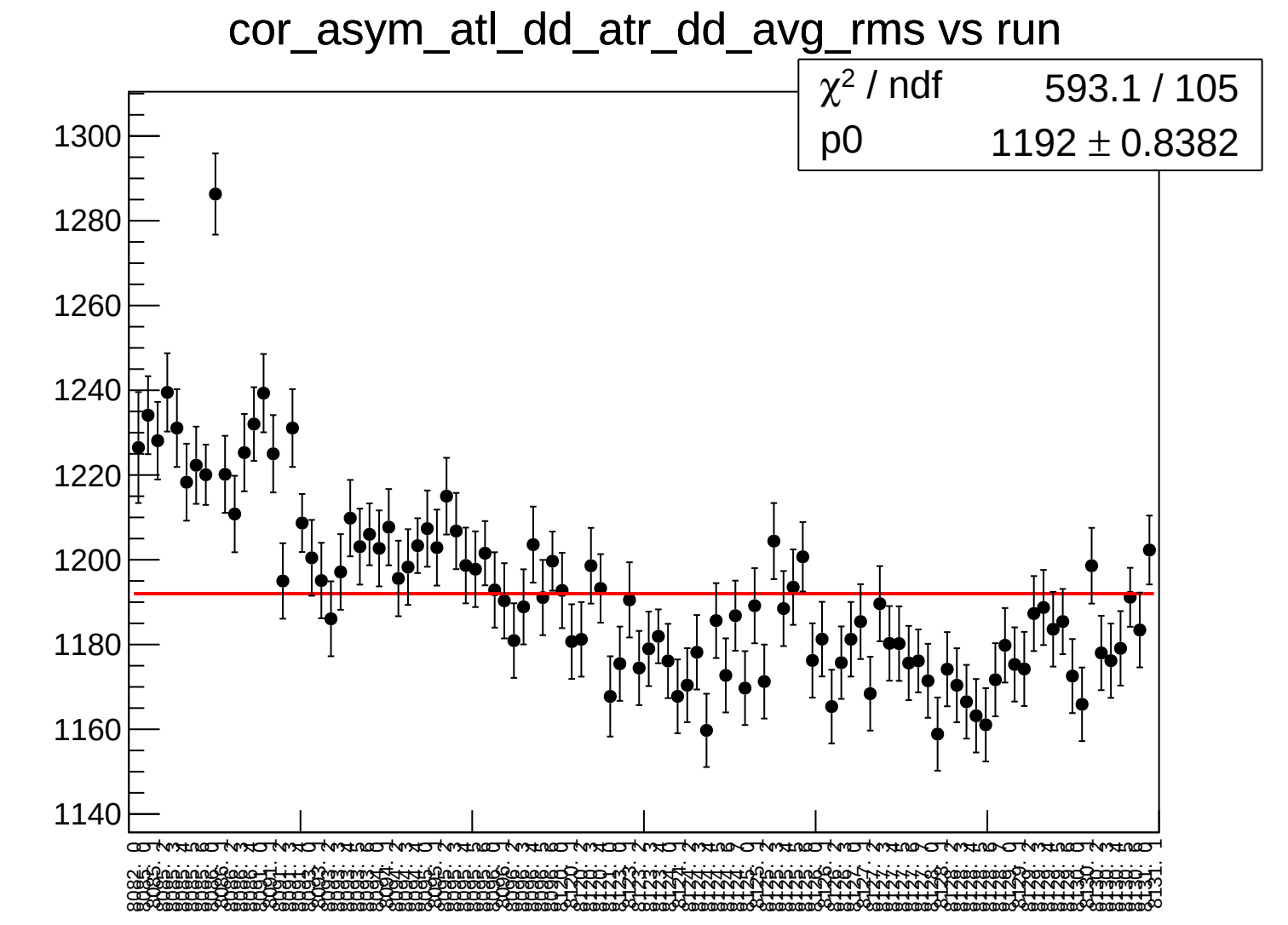

asym_atl_dd_atr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 89.63 / 105
p0 −9057 ± 5433
pull
Entries 106
Mean −164.2
Std Dev 0

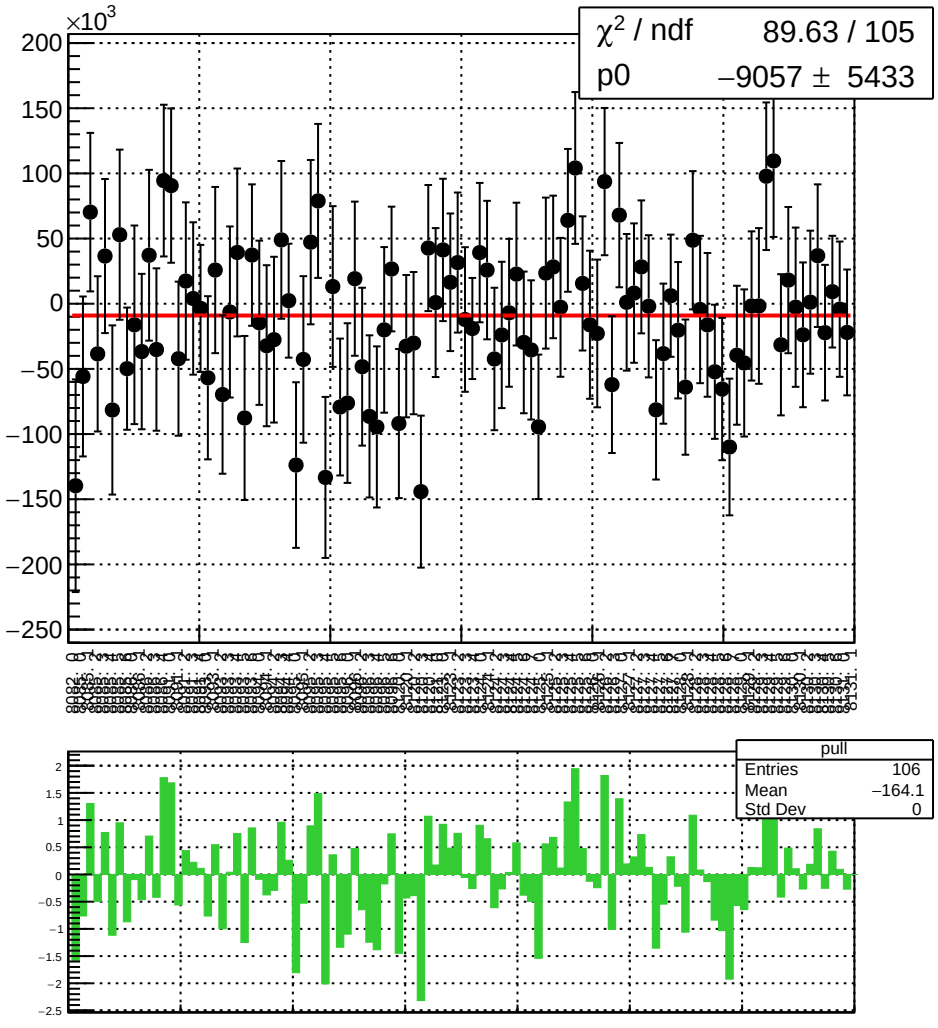

pull1D
Entries 106
Mean −0.009478
Std Dev 0.9195

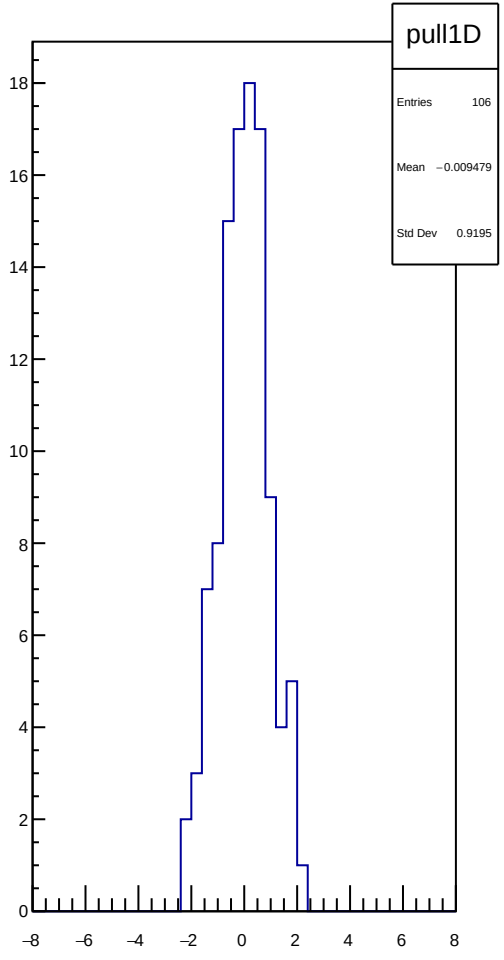

asym_atl_dd_atr_dd_avg_reg_correction_rms vs run
χ² / ndf 1.062e+04 / 105
p0 5450 ± 3.842
7500
7000
6500
6000
5500
5000

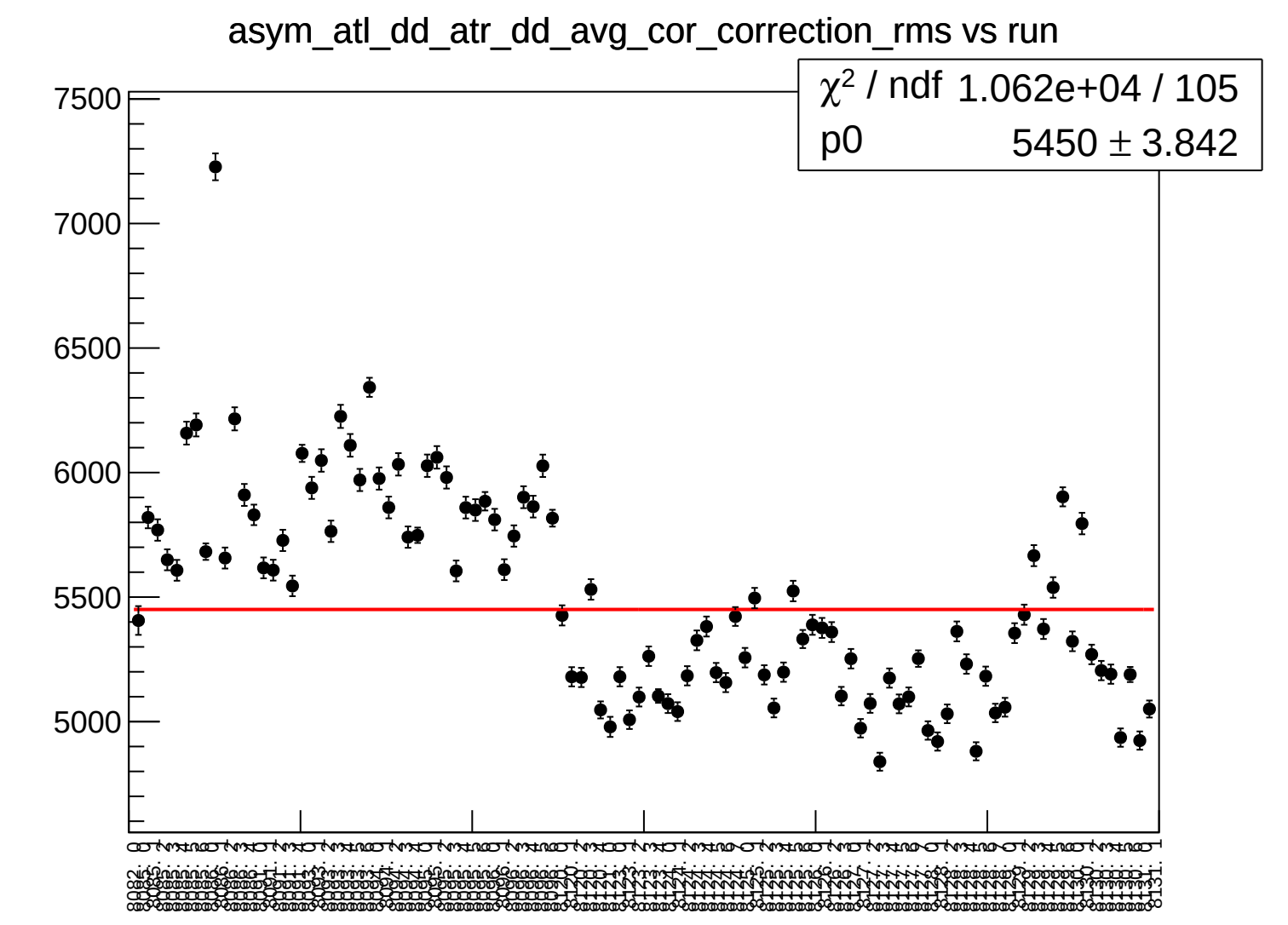

cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 111.5 / 105
p0 1711 ± 1185
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean 64.13
Std Dev 71.73
2
1
0
−1
−2
−3

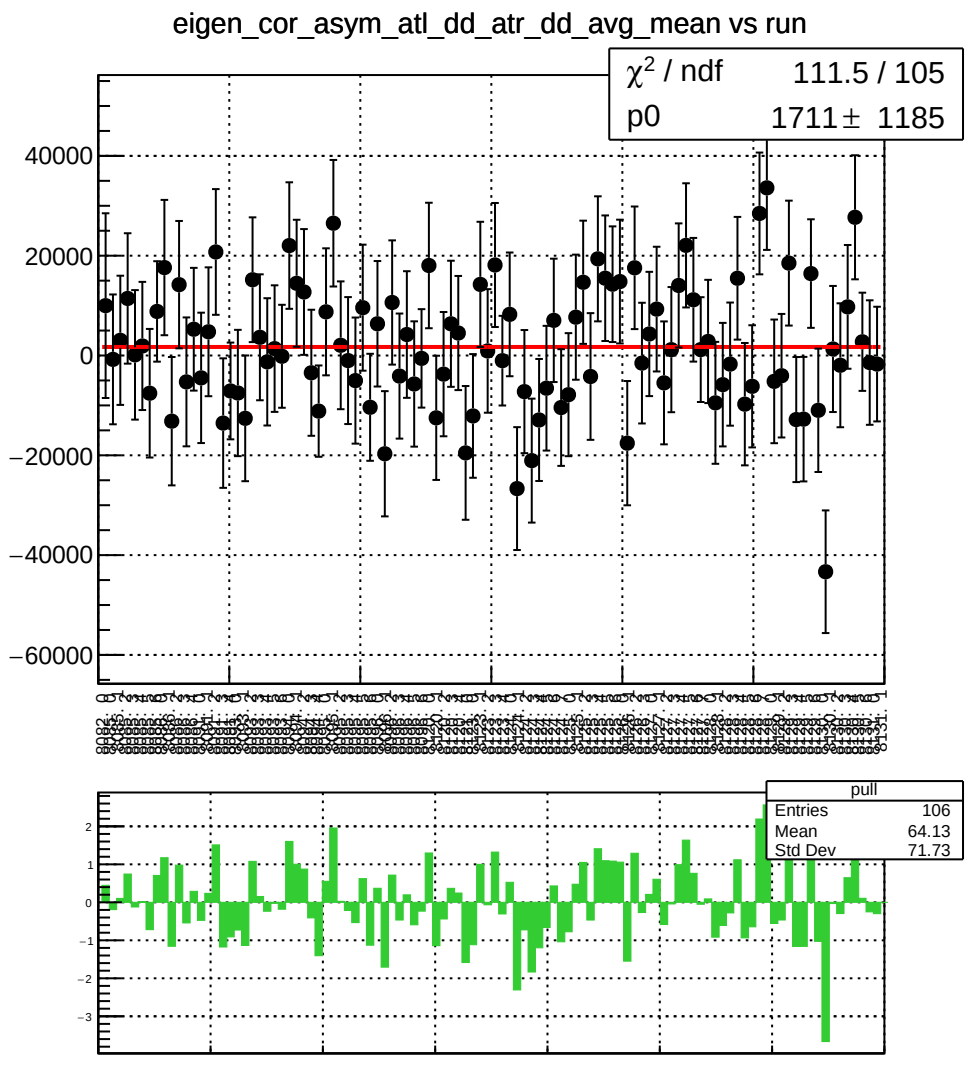

pull1D
Entries 106
Mean 0.009498
Std Dev 1.026
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

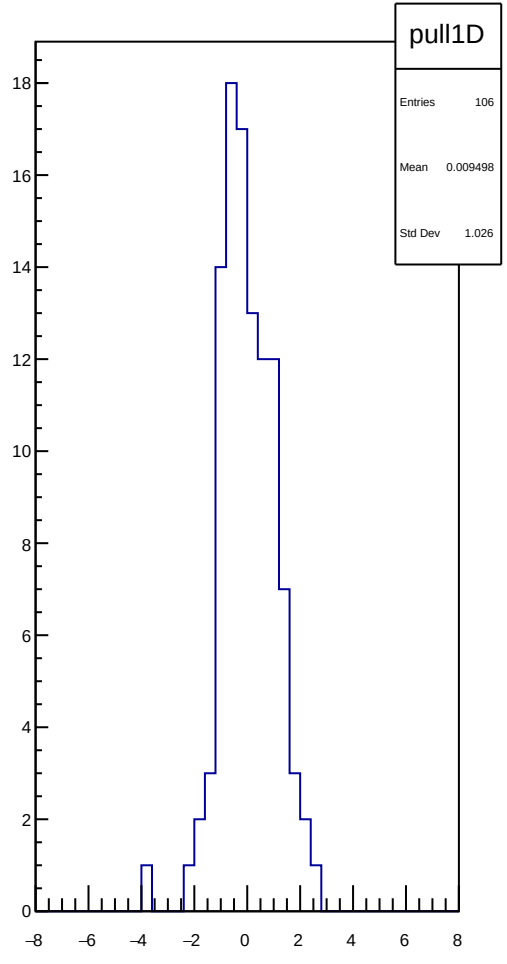

cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 593.1 / 105
p0 1192 ± 0.8382
1300
1280
1260
1240
1220
1200
1180
1160
1140

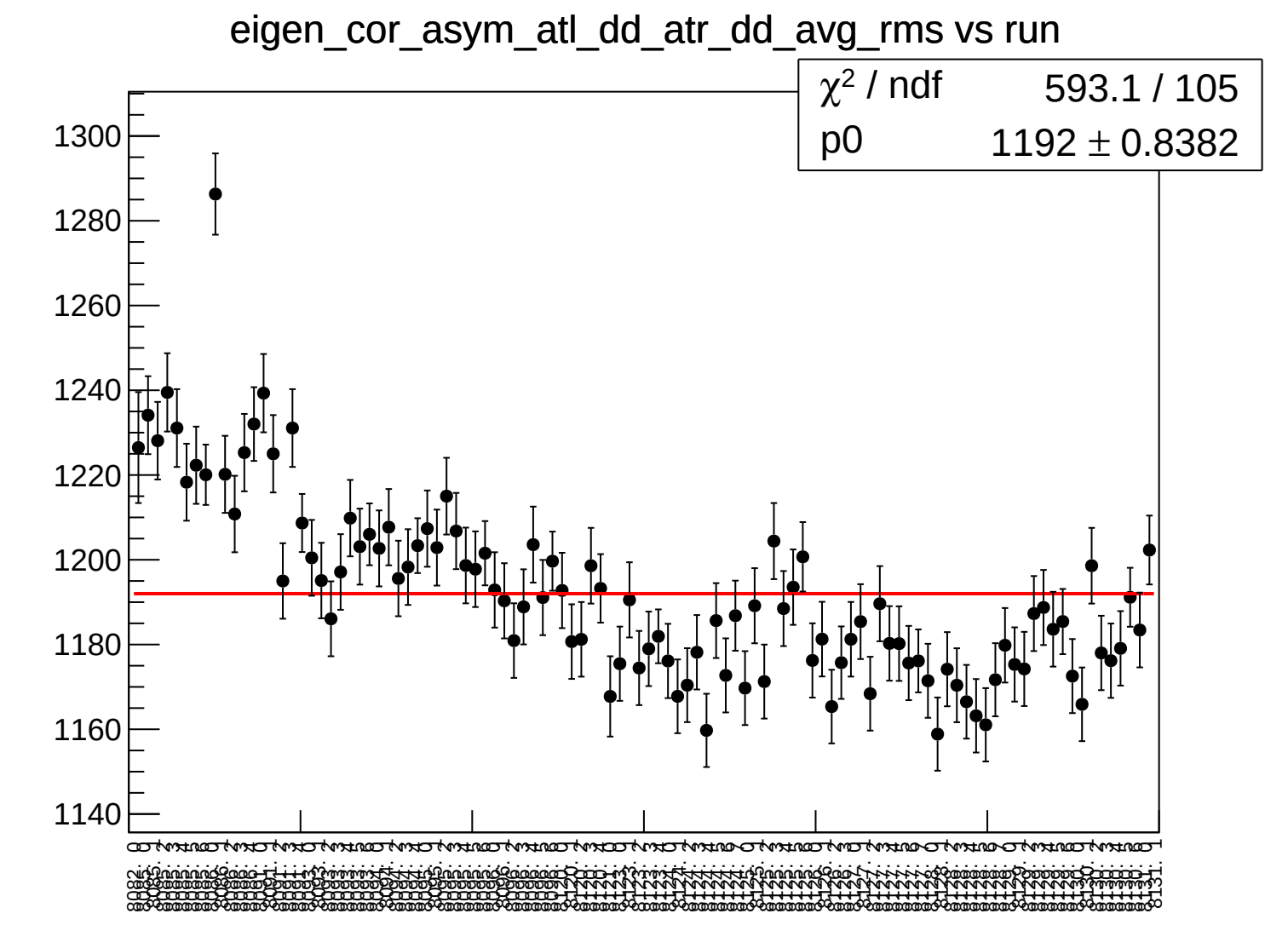

asym_atl_dd_atr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 89.63 / 105
p0 −9057 ± 5433
pull
Entries 106
Mean −164.1
Std Dev 0

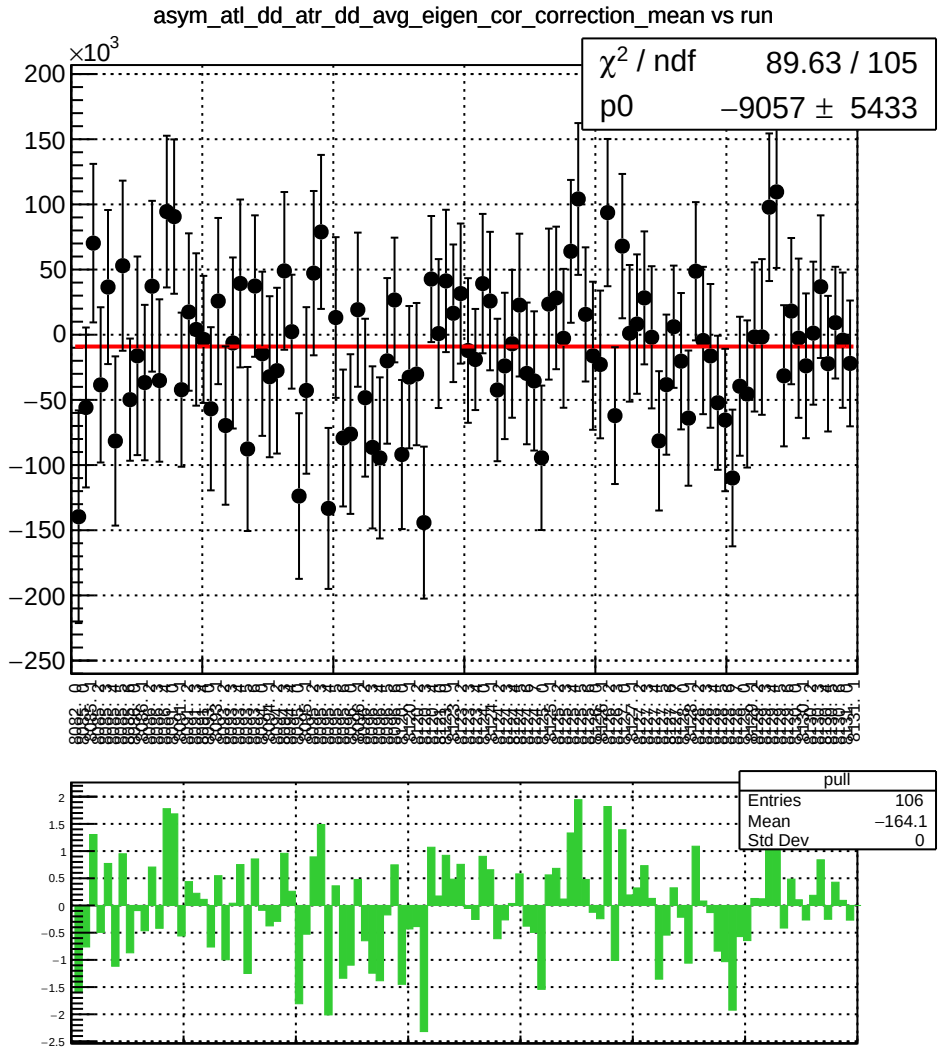

pull1D
Entries 106
Mean −0.009479
Std Dev 0.9195

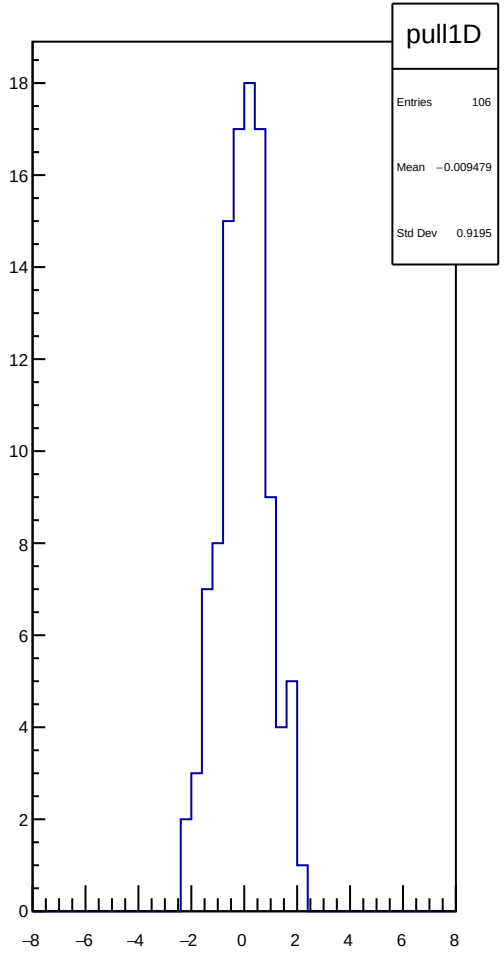

asym_atl_dd_atr_dd_avg_cor_correction_rms vs run
χ² / ndf 1.062e+04 / 105
p0 5450 ± 3.842
7500
7000
6500
6000
5500
5000

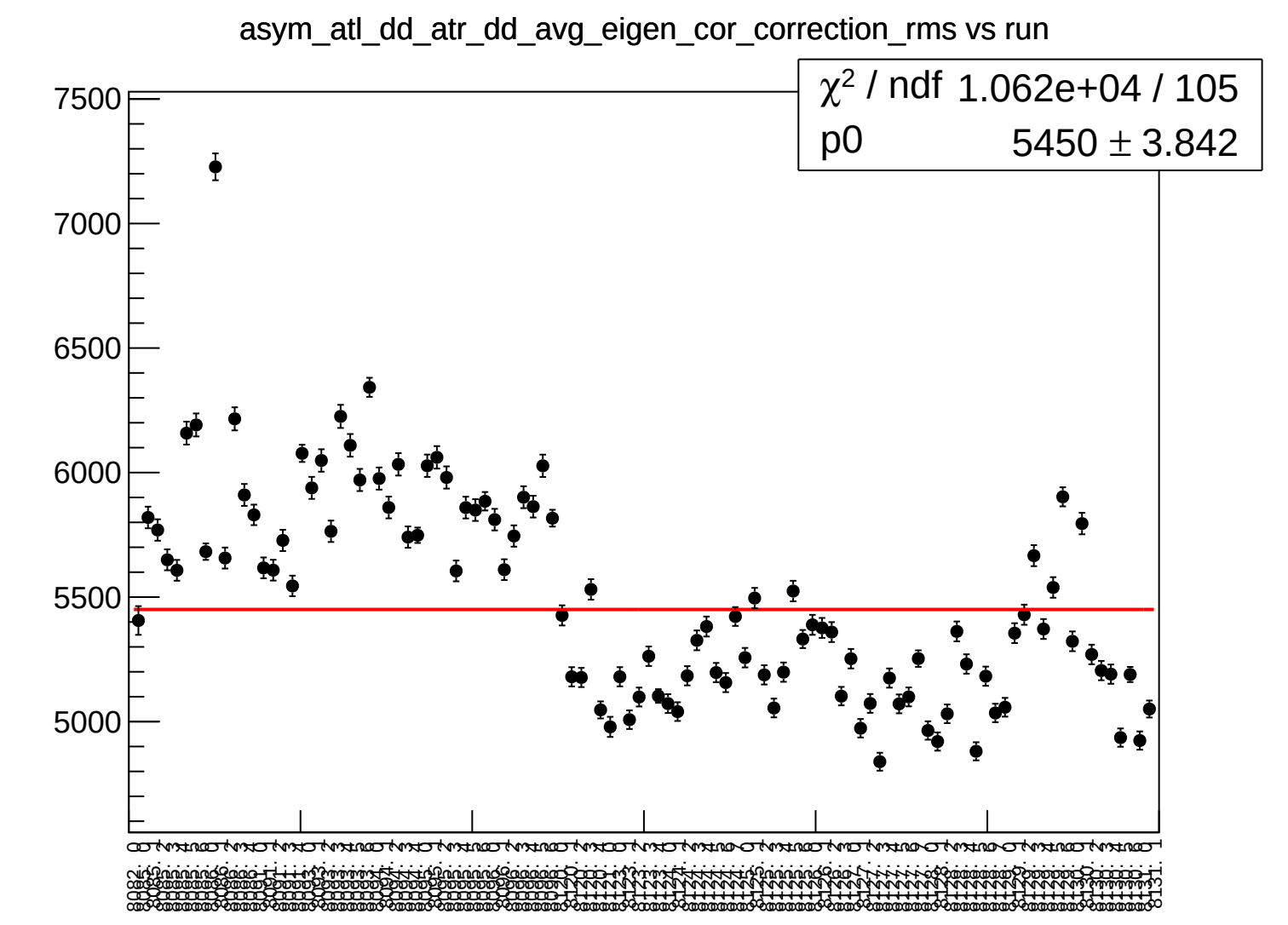

eigen_cor_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 111.5 / 105
p0 1711 ± 1185
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean 64.13
Std Dev 71.73
2
1
0
−1
−2
−3

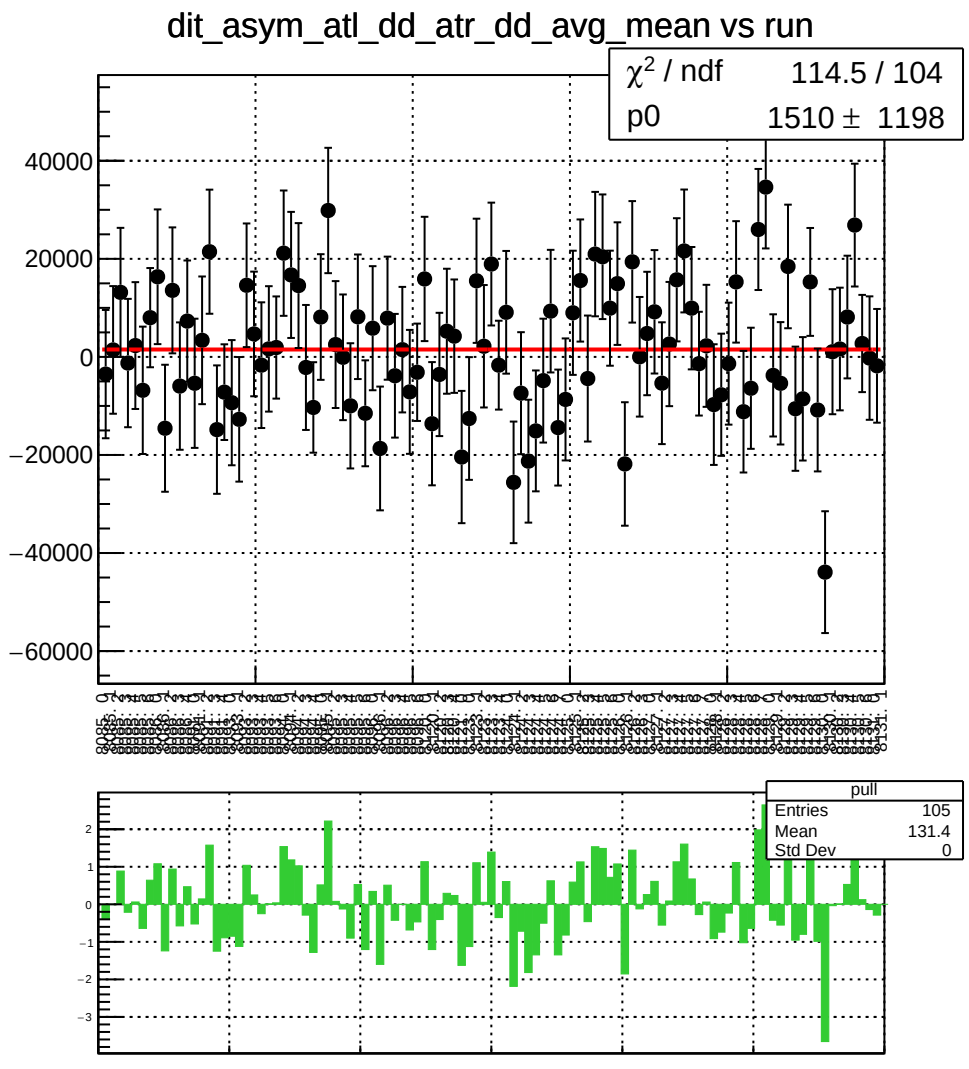

pull1D
Entries 106
Mean 0.009498
Std Dev 1.026
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

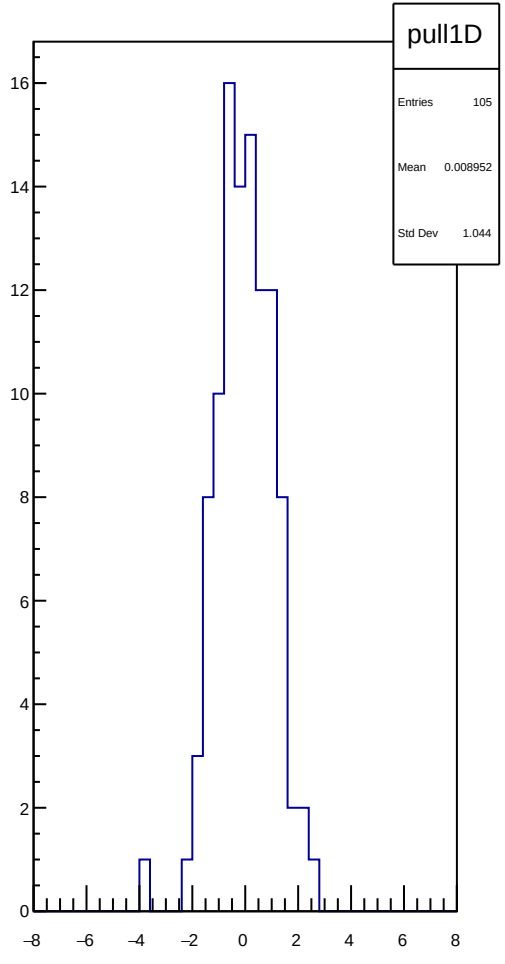

eigen_cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 593.1 / 105
p0 1192 ± 0.8382
1300
1280
1260
1240
1220
1200
1180
1160
1140

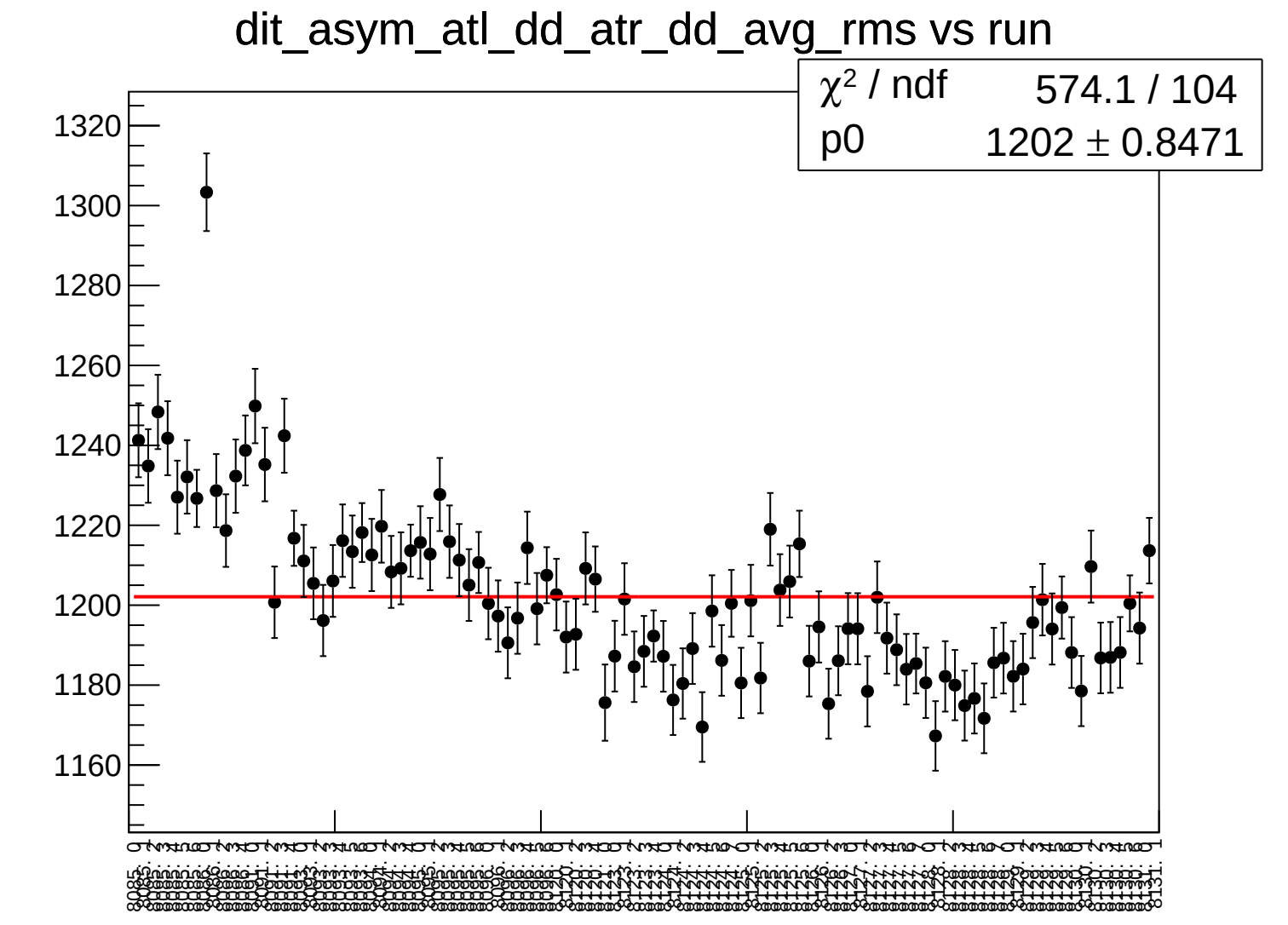

asym_atl_dd_atr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 89.63 / 105
p0 −9057 ± 5433
pull
Entries 106
Mean −164.1
Std Dev 0

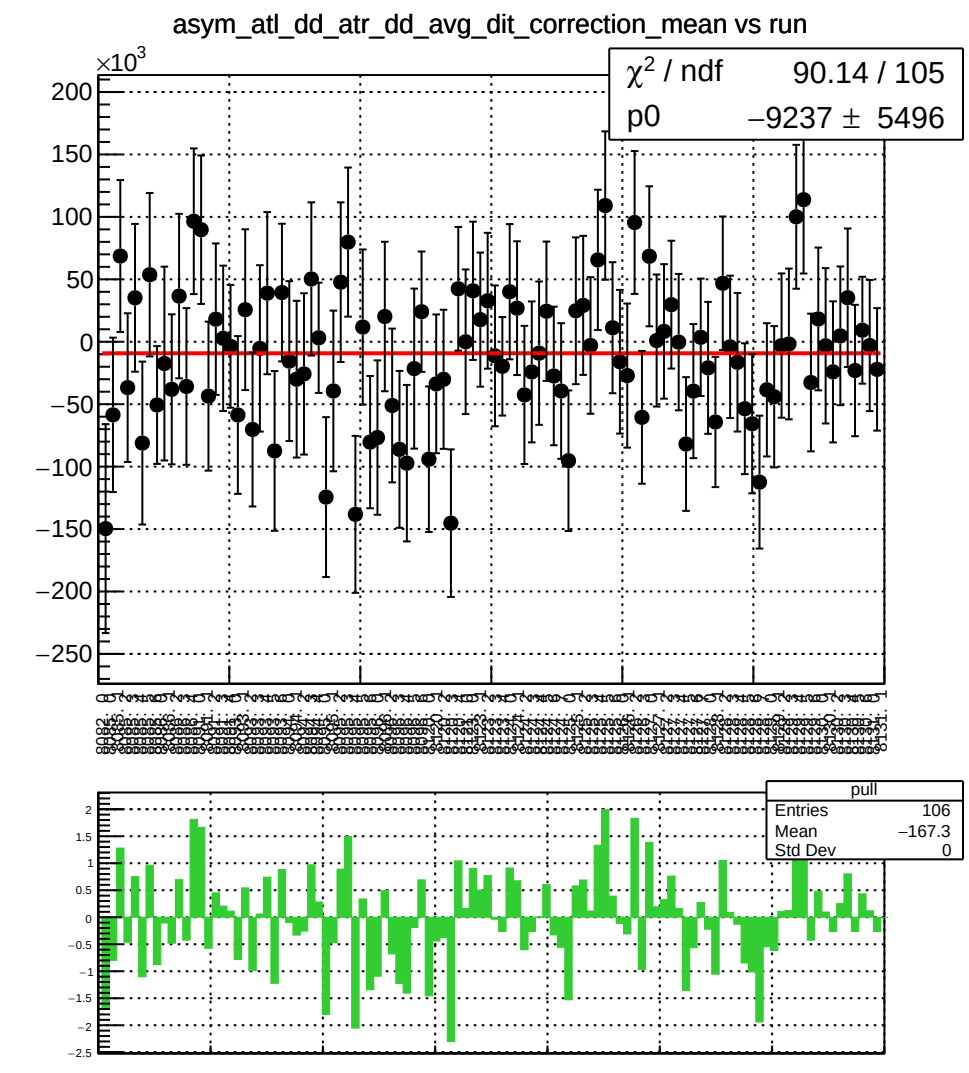

pull1D
Entries 106
Mean −0.009479
Std Dev 0.9195

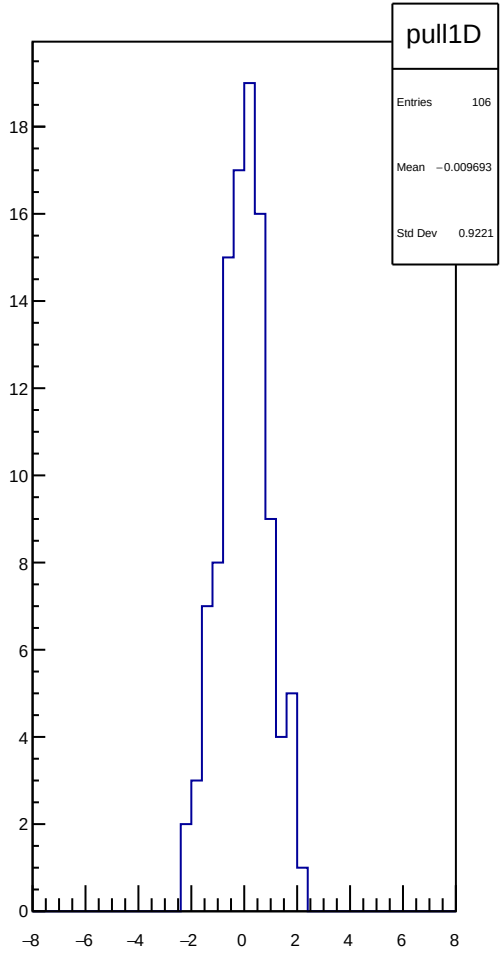

asym_atl_dd_atr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.062e+04 / 105
p0 5450 ± 3.842
7500
7000
6500
6000
5500
5000

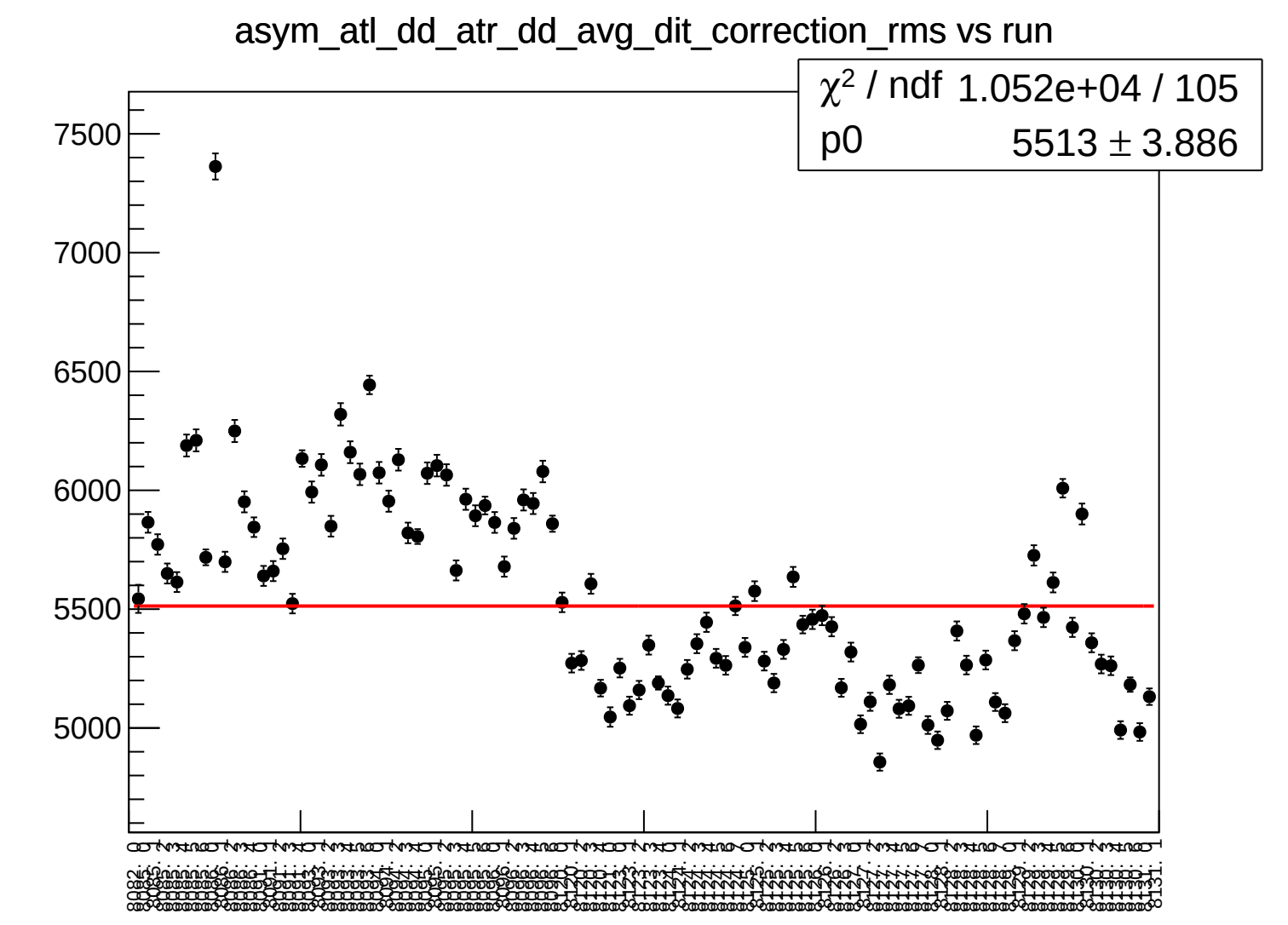

dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 114.5 / 104
p0 1510 ± 1198
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean 131.4
Std Dev 0
2
1
0
−1
−2
−3

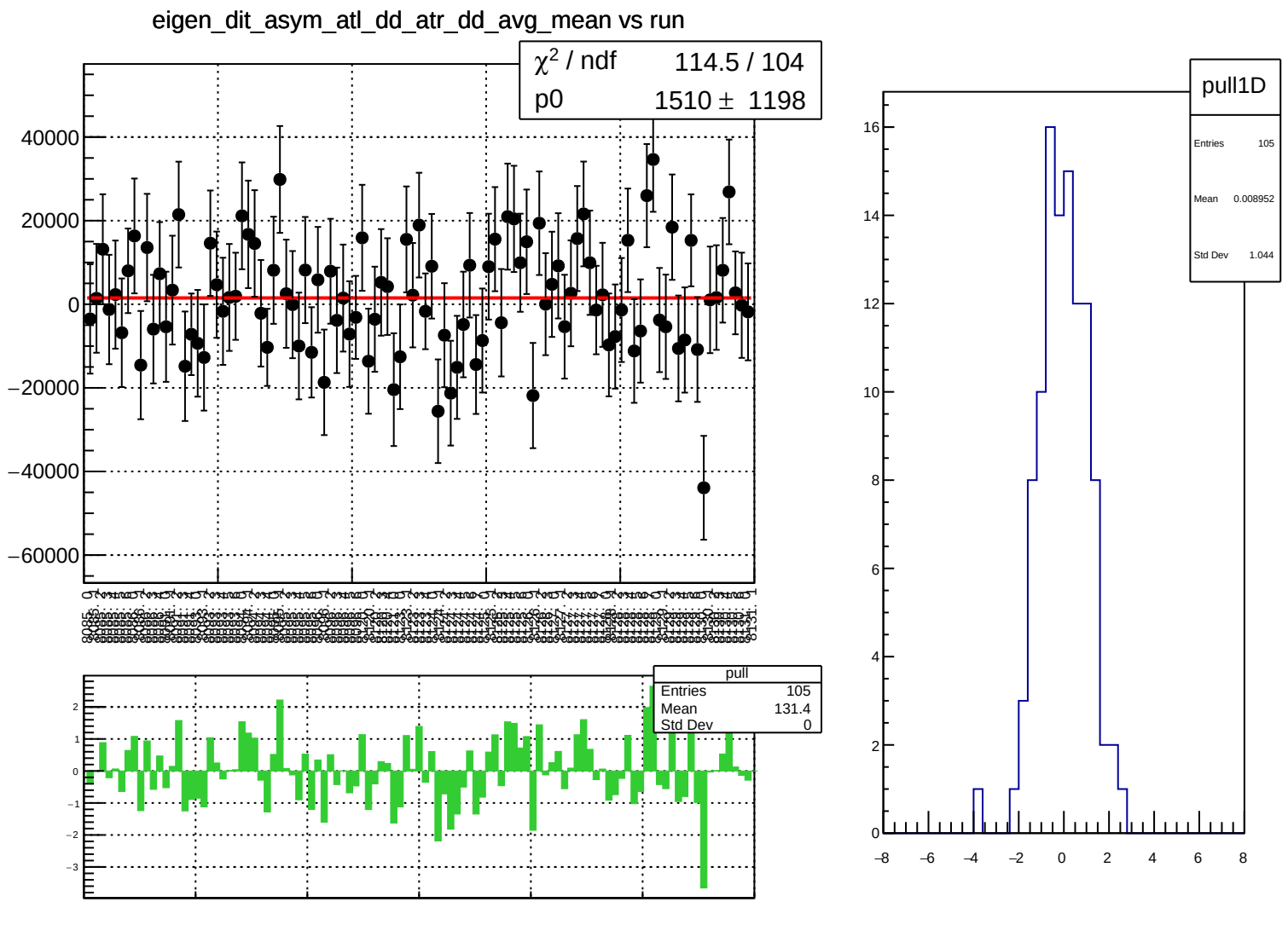

pull1D
Entries 105
Mean 0.008952
Std Dev 1.044
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

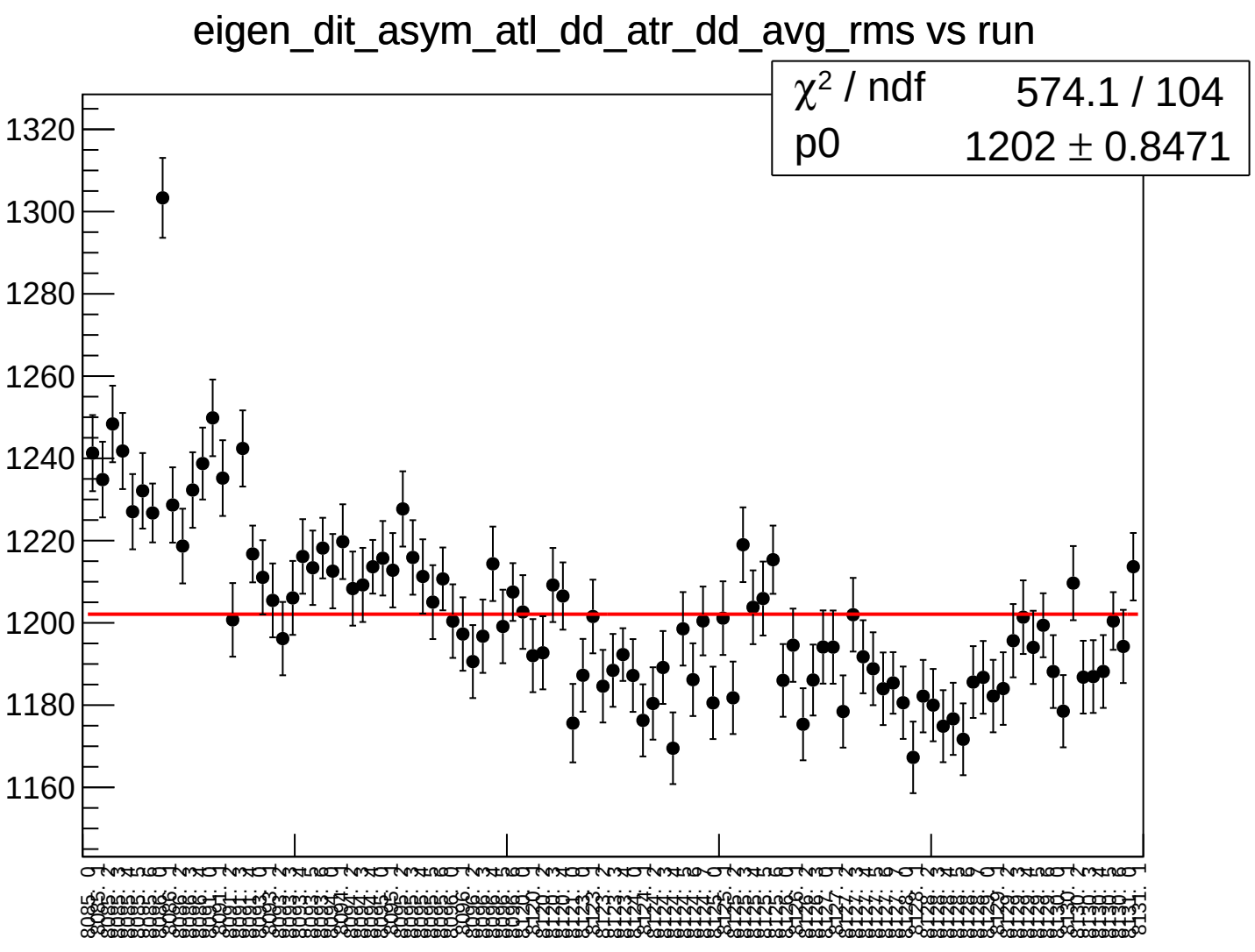

dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 574.1 / 104
p0 1202 ± 0.8471
1320
1300
1280
1260
1240
1220
1200
1180
1160

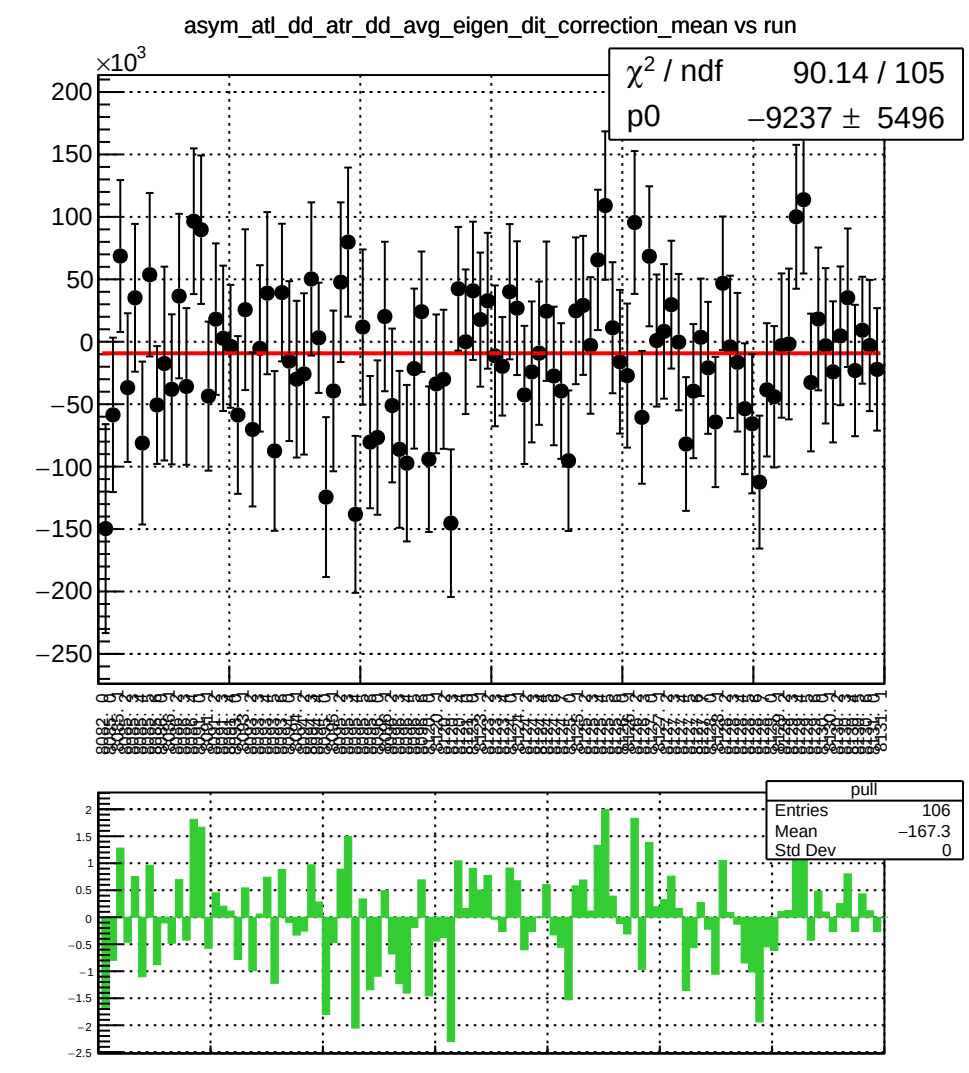

asym_atl_dd_atr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 90.14 / 105
p0 −9237 ± 5496
200
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 106
Mean −167.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

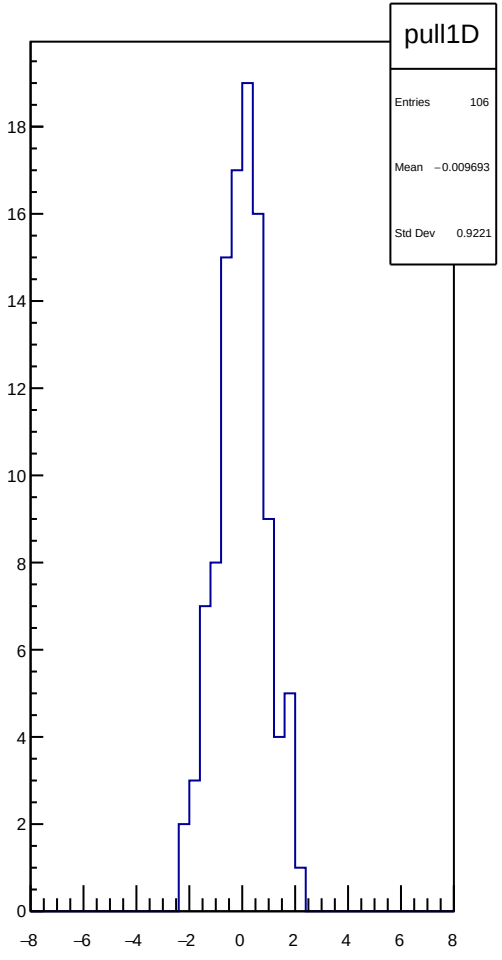

pull1D
Entries 106
Mean −0.009693
Std Dev 0.9221
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

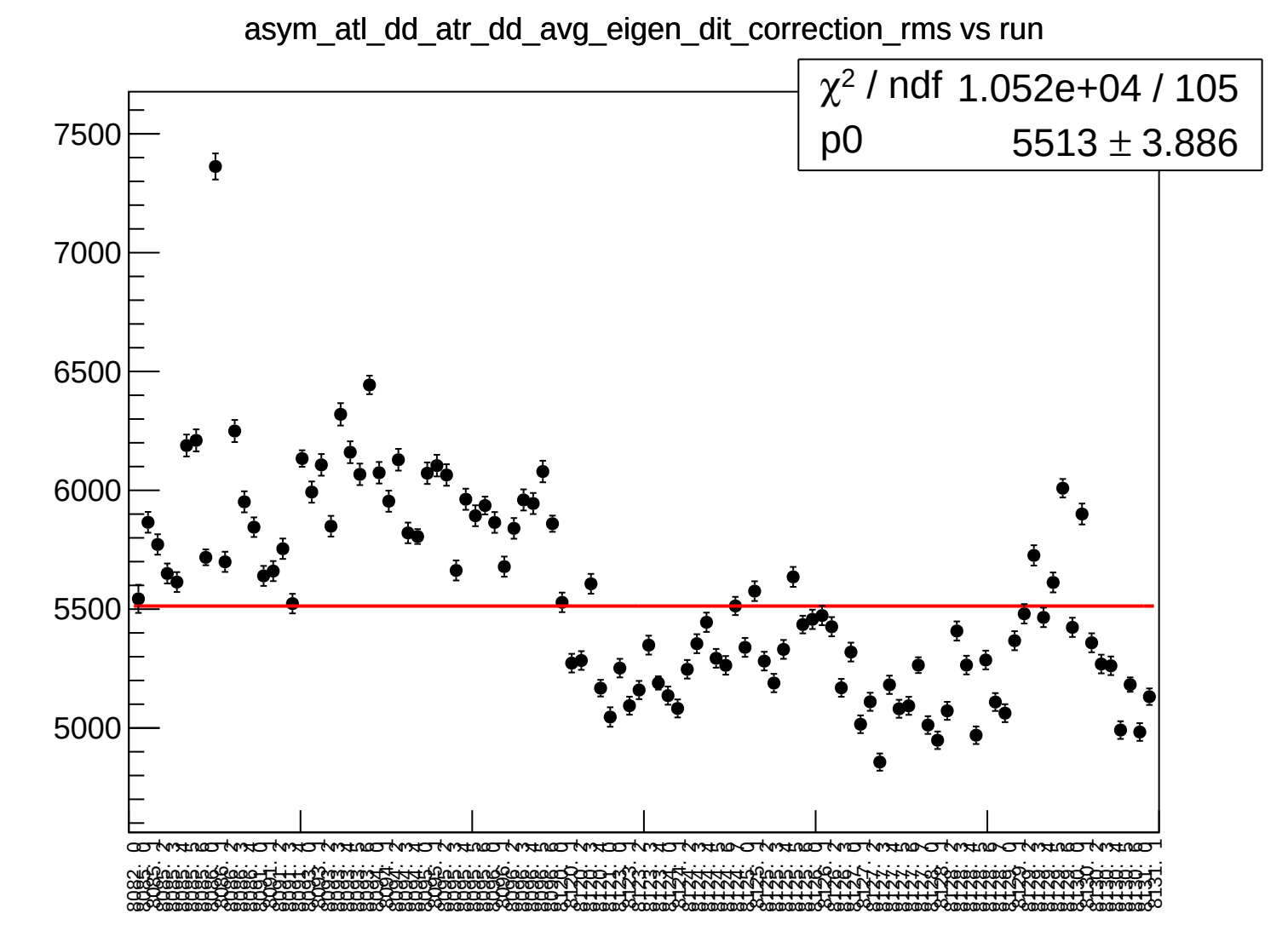

asym_atl_dd_atr_dd_avg_dit_correction_rms vs run
χ² / ndf 1.052e+04 / 105
p0 5513 ± 3.886
7500
7000
6500
6000
5500
5000

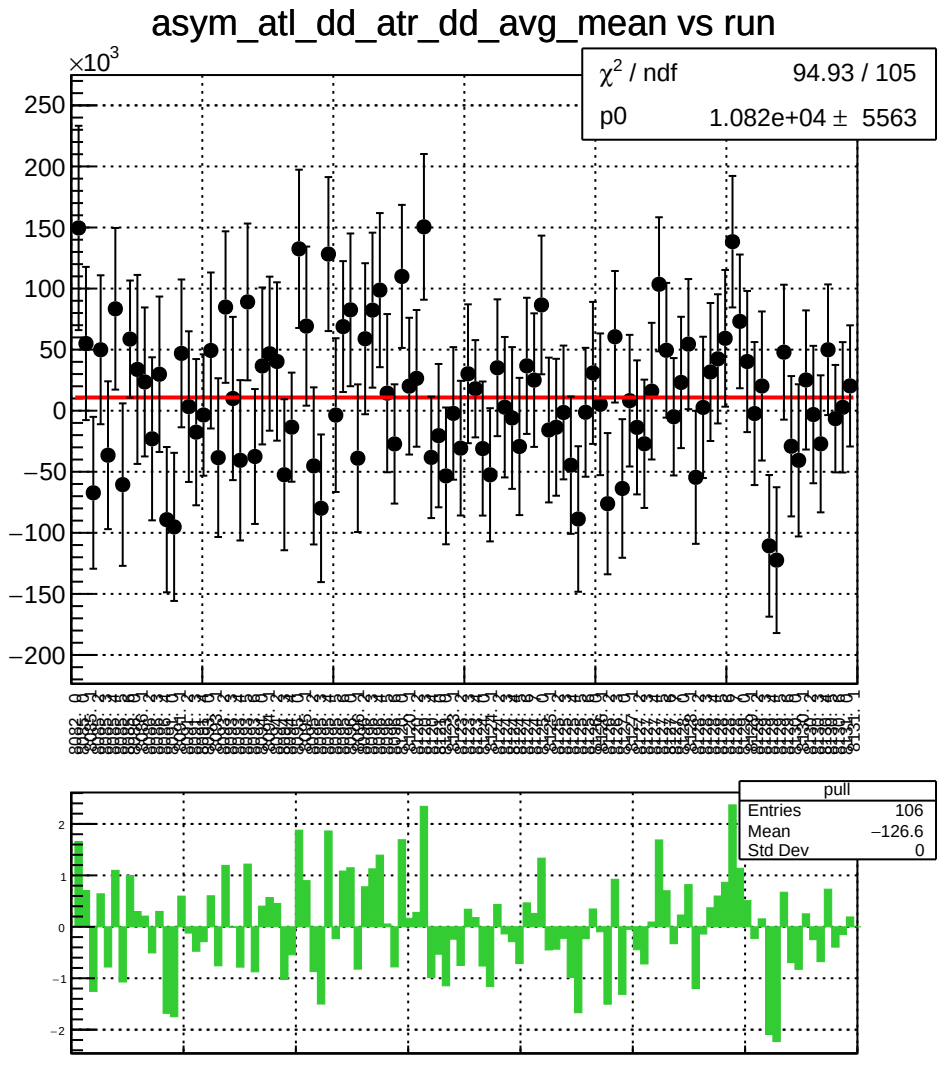

eigen_dit_asym_atl_dd_atr_dd_avg_mean vs run
χ² / ndf 114.5 / 104
p0 1510 ± 1198
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean 131.4
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 105
Mean 0.008952
Std Dev 1.044
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

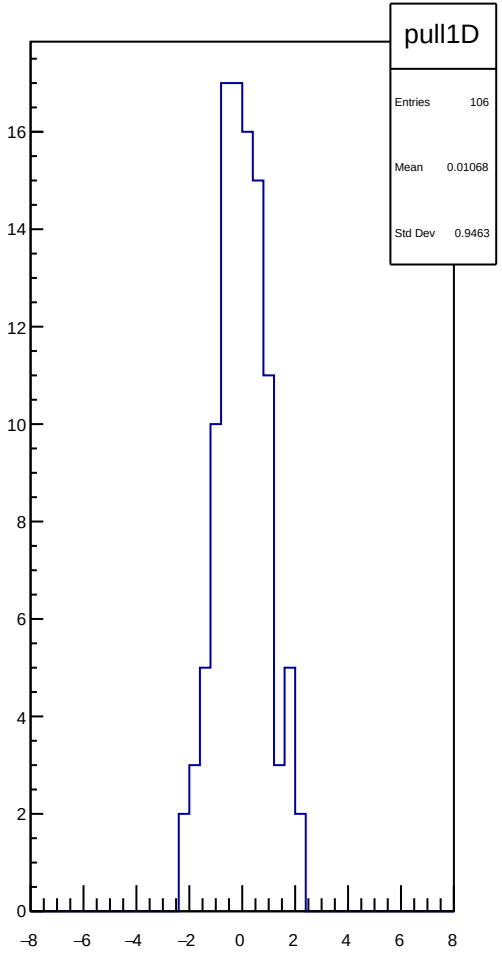

eigen_dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 574.1 / 104
p0 1202 ± 0.8471
1320
1300
1280
1260
1240
1220
1200
1180
1160

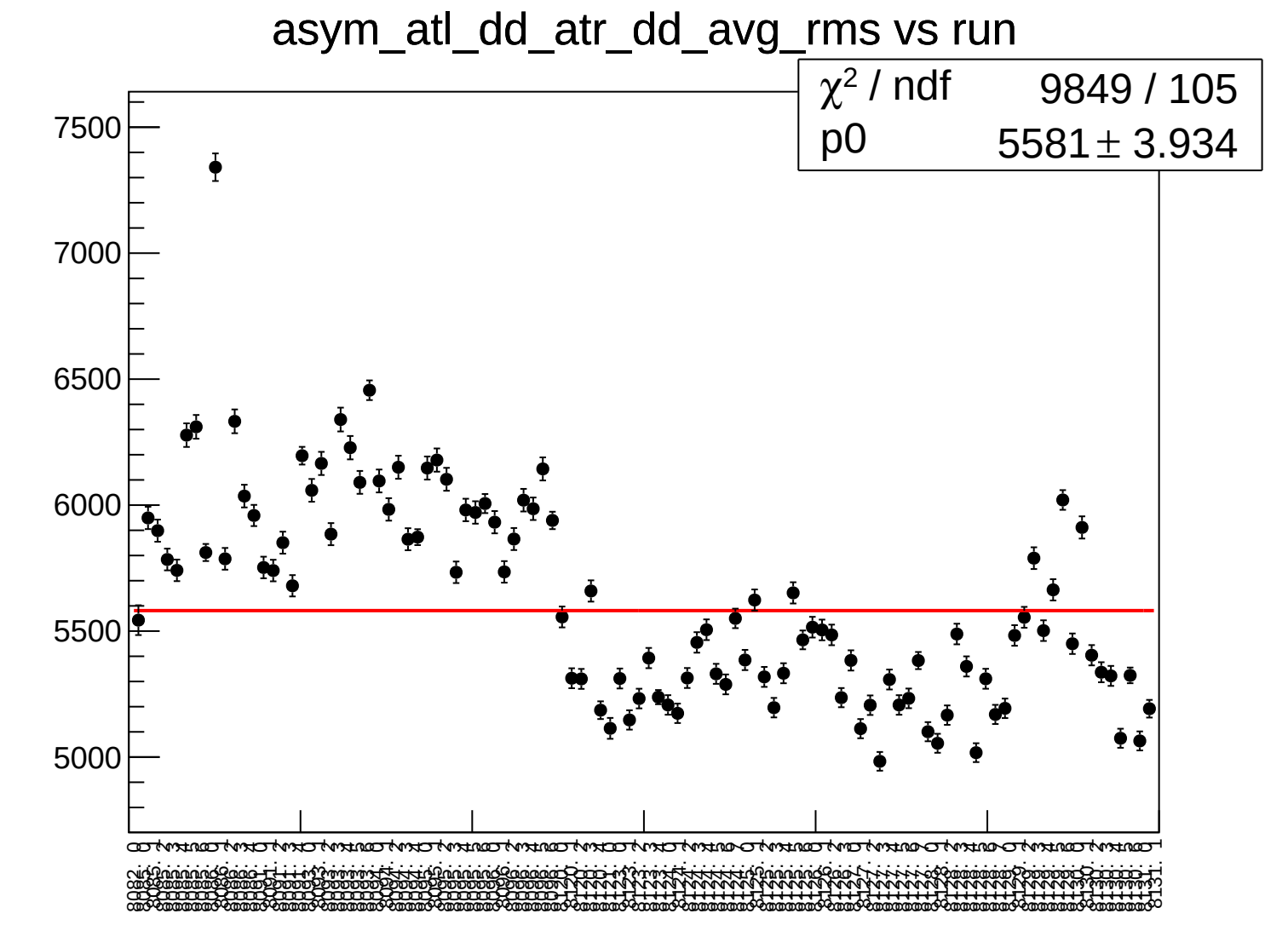

asym_atl_dd_atr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 90.14 / 105
p0 −9237 ± 5496
pull
Entries 106
Mean −167.3
Std Dev 0

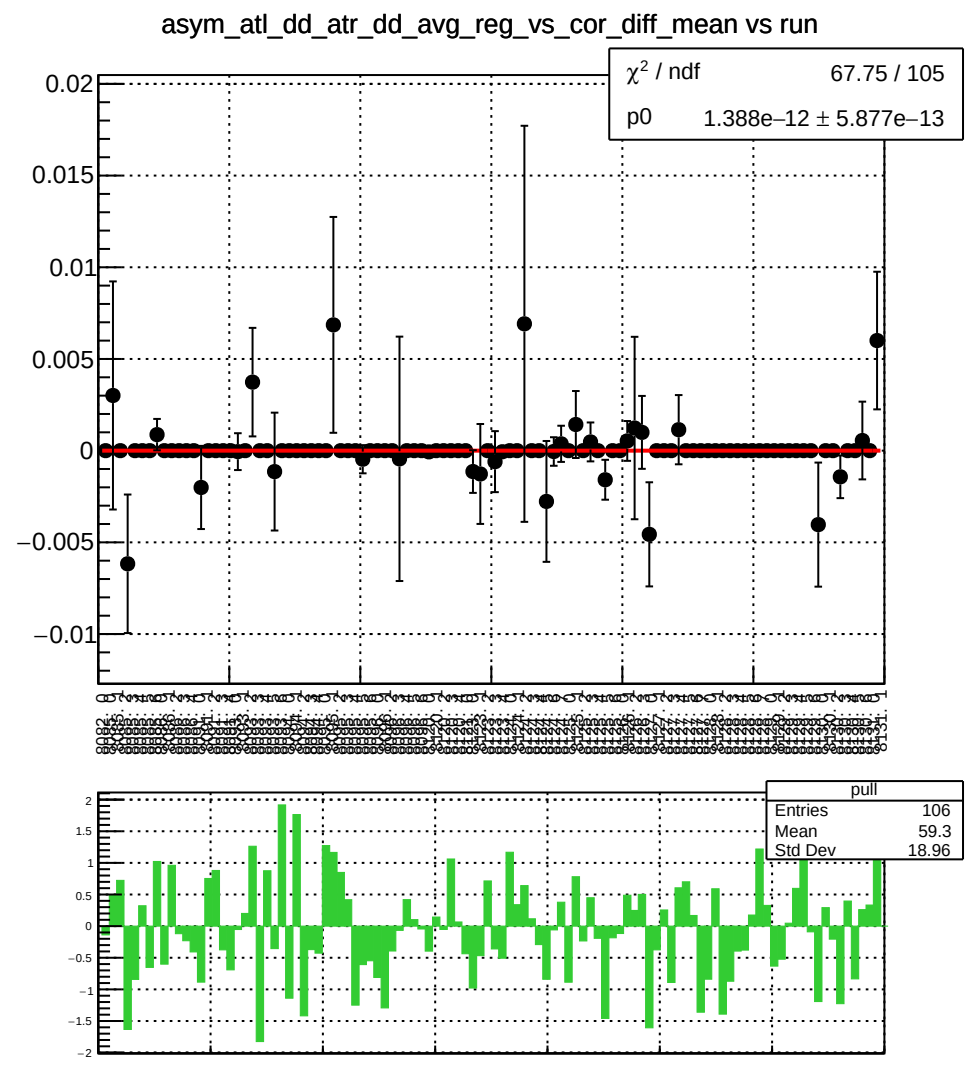

pull1D
Entries 106
Mean −0.009693
Std Dev 0.9221

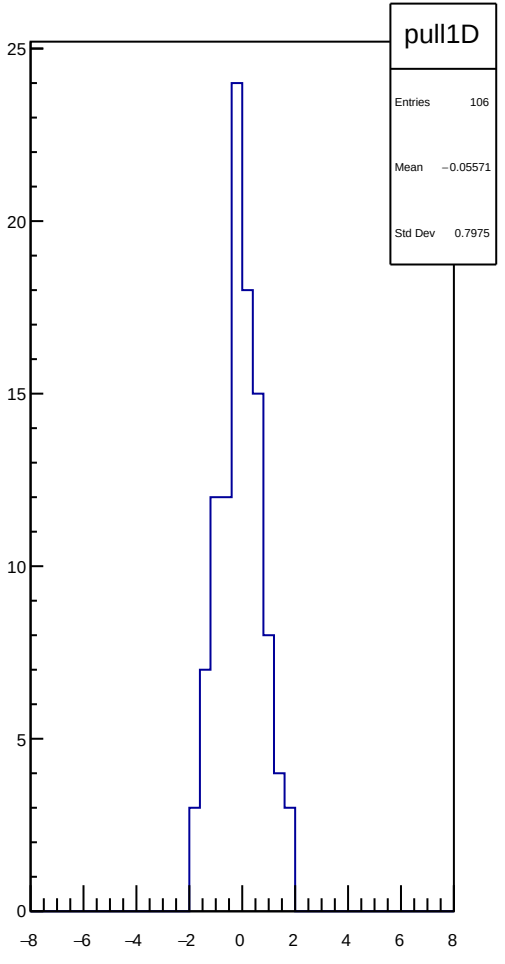

asym_atl_dd_atr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.052e+04 / 105
p0 5513 ± 3.886
7500
7000
6500
6000
5500
5000

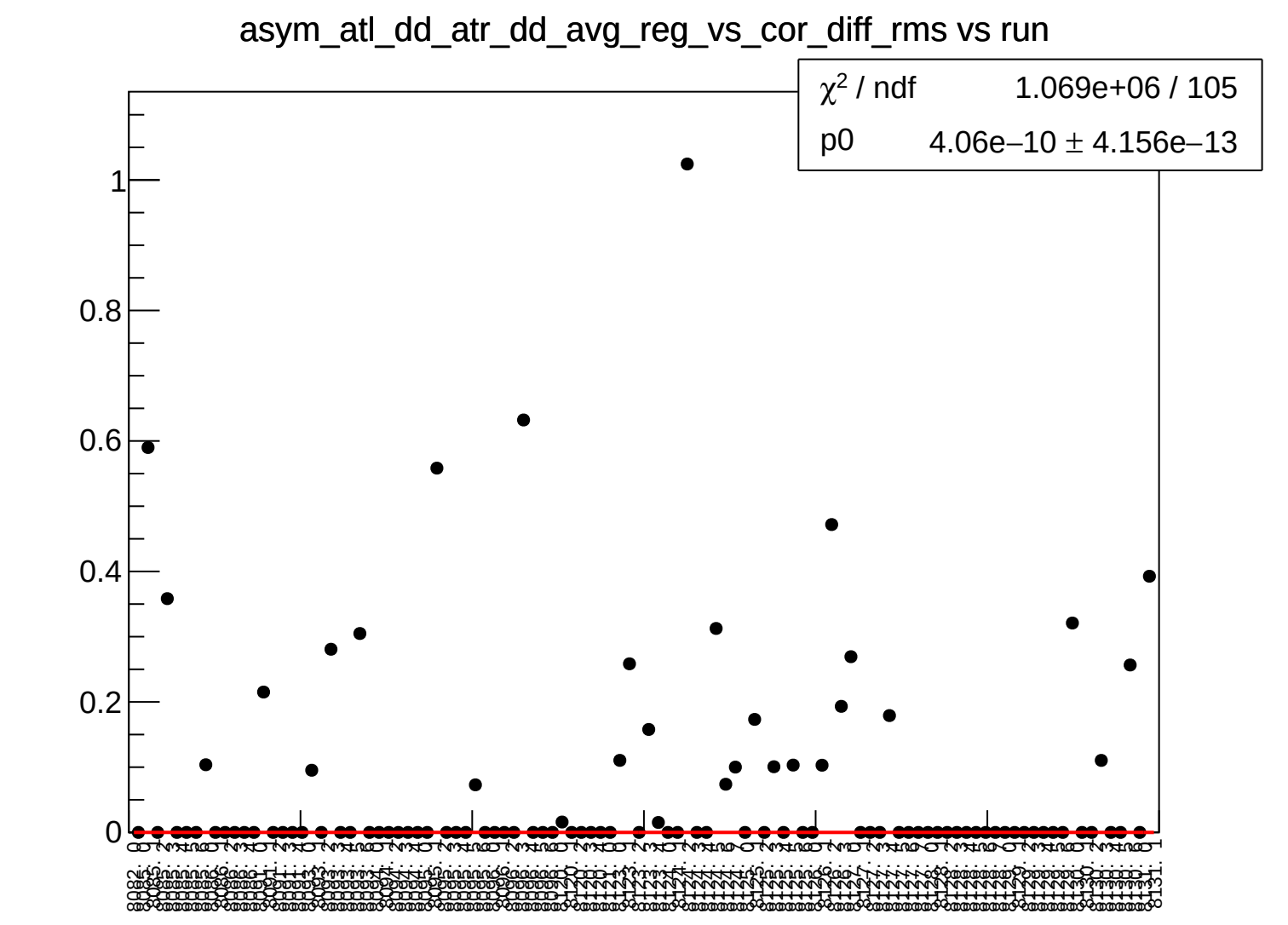

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 94.93 / 105
p0 1.082e+04 ± 5563
250
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 106
Mean −126.6
Std Dev 0
2
1
0
−1
−2

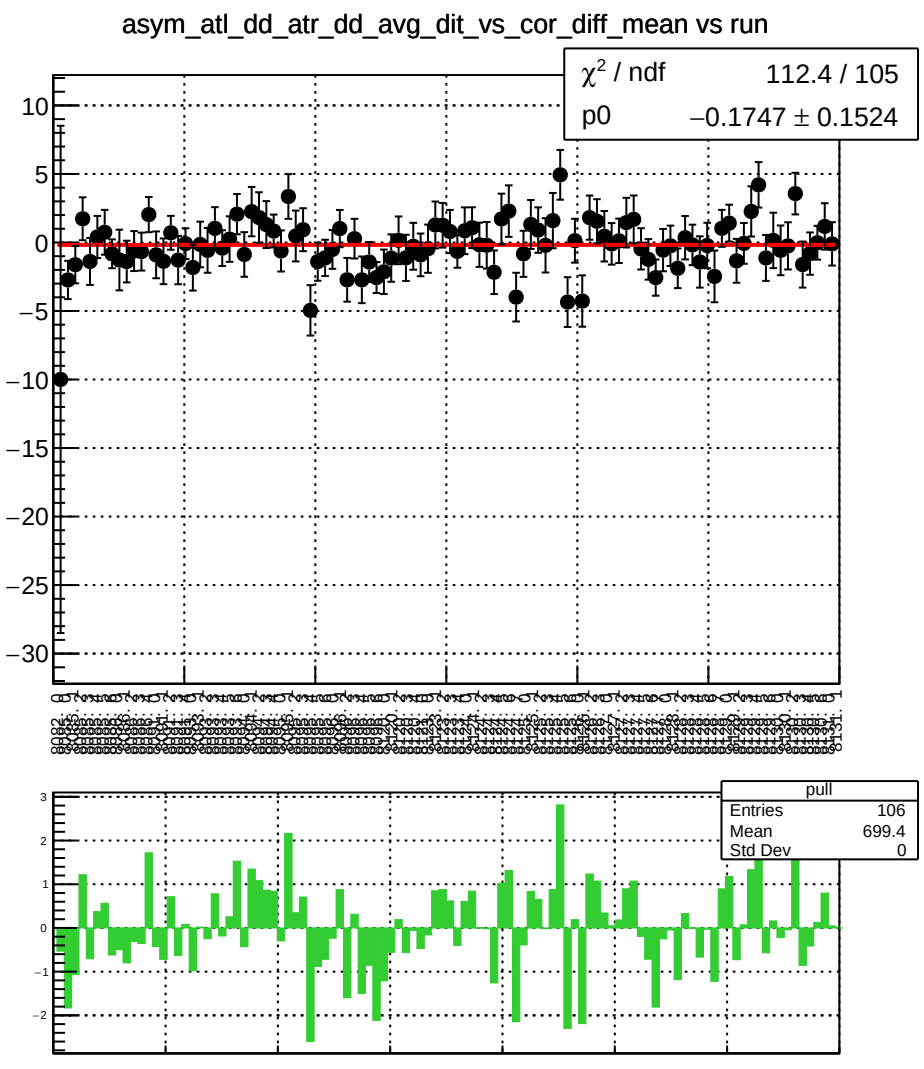

pull1D
Entries 106
Mean 0.01068
Std Dev 0.9463
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

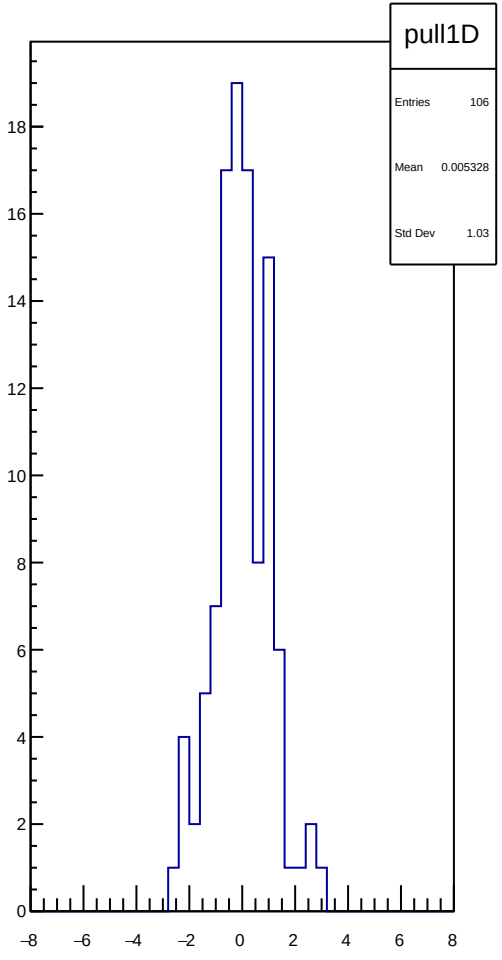

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 9849 / 105
p0 5581 ± 3.934
7500
7000
6500
6000
5500
5000

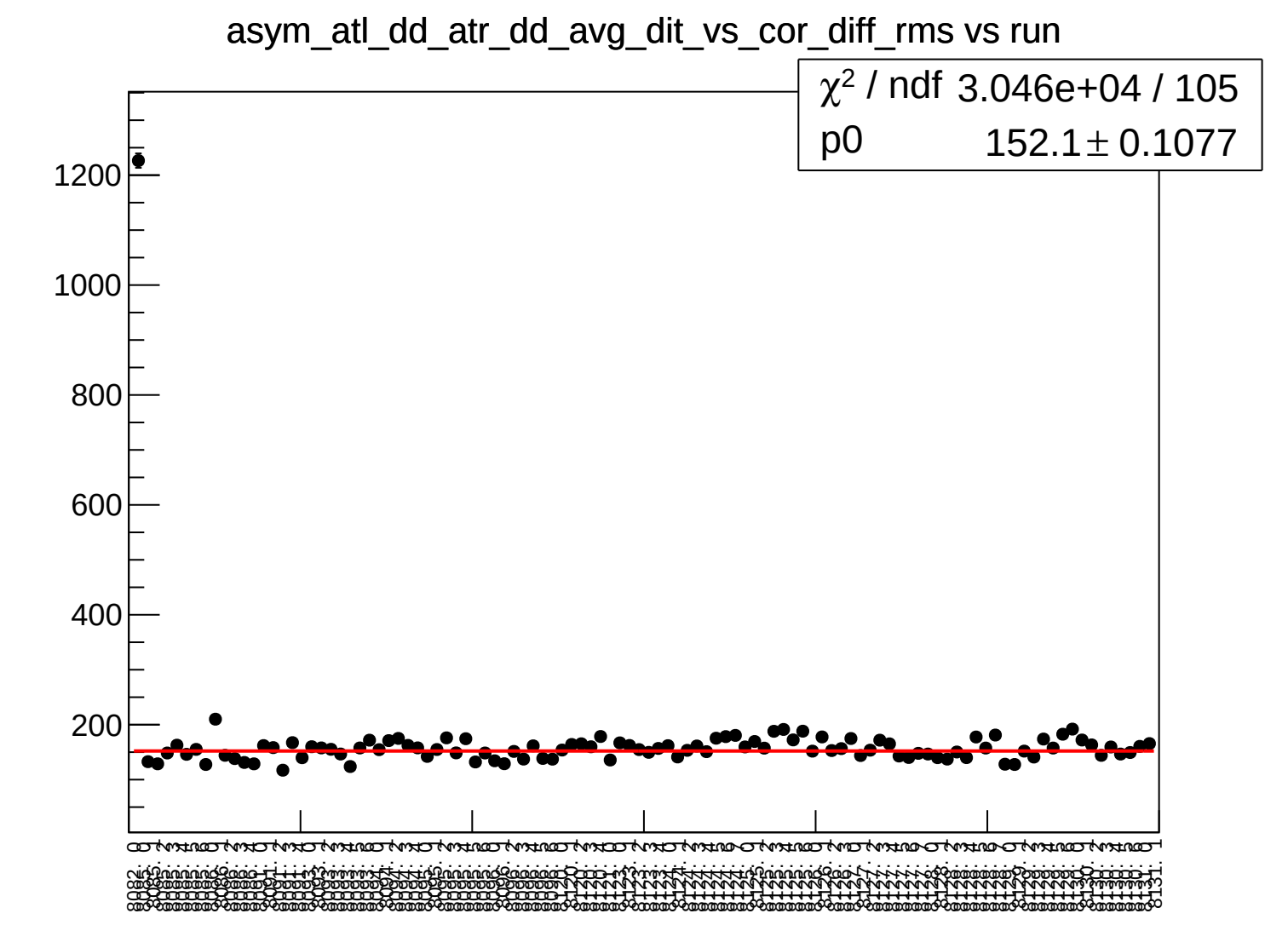

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 67.75 / 105
p0 1.388e−12 ± 5.877e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 106
Mean 59.3
Std Dev 18.96
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

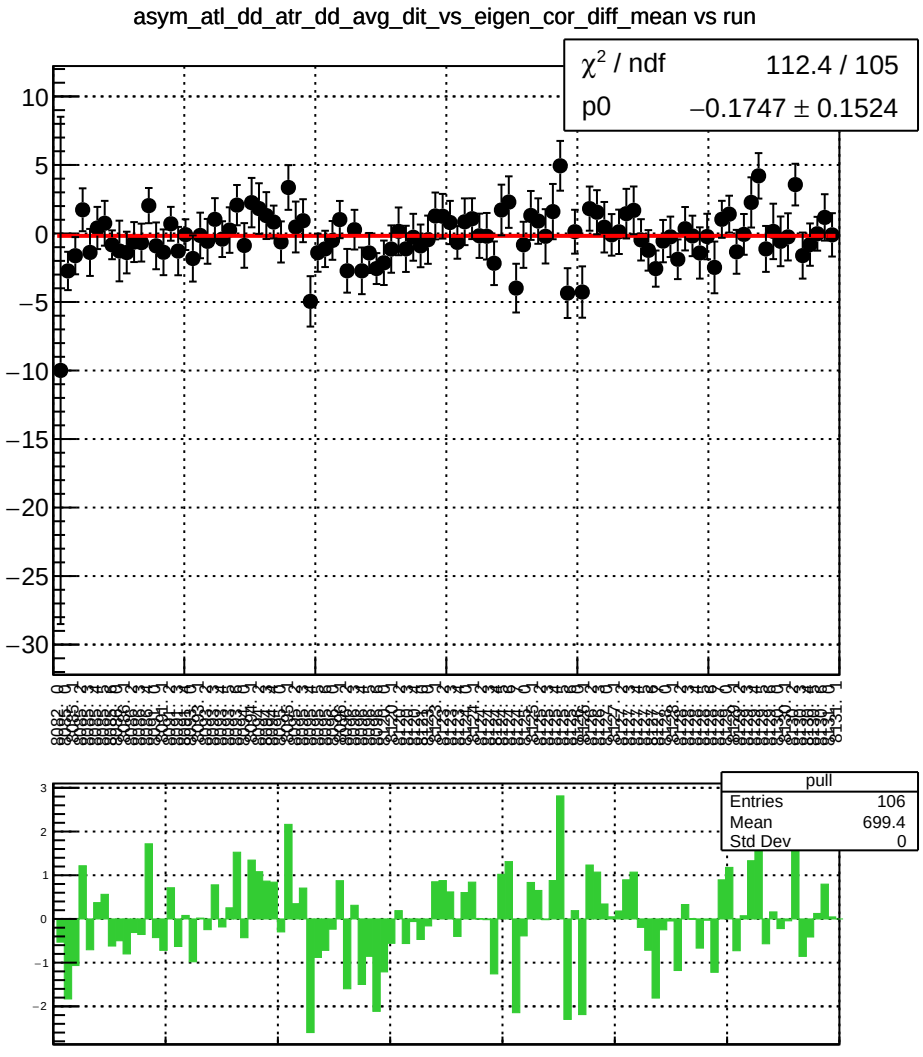

pull1D
Entries 106
Mean −0.05571
Std Dev 0.7975
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

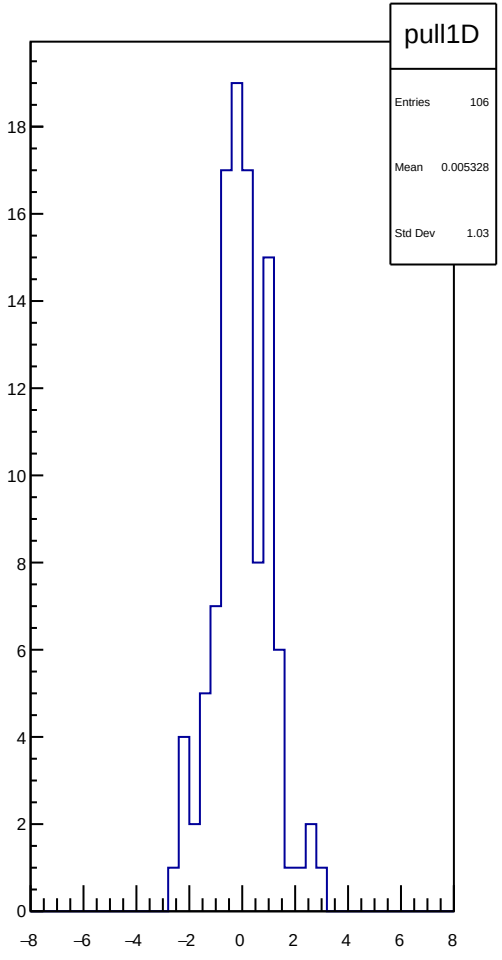

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.069e+06 / 105
p0 4.06e−10 ± 4.156e−13
1
0.8
0.6
0.4
0.2
0

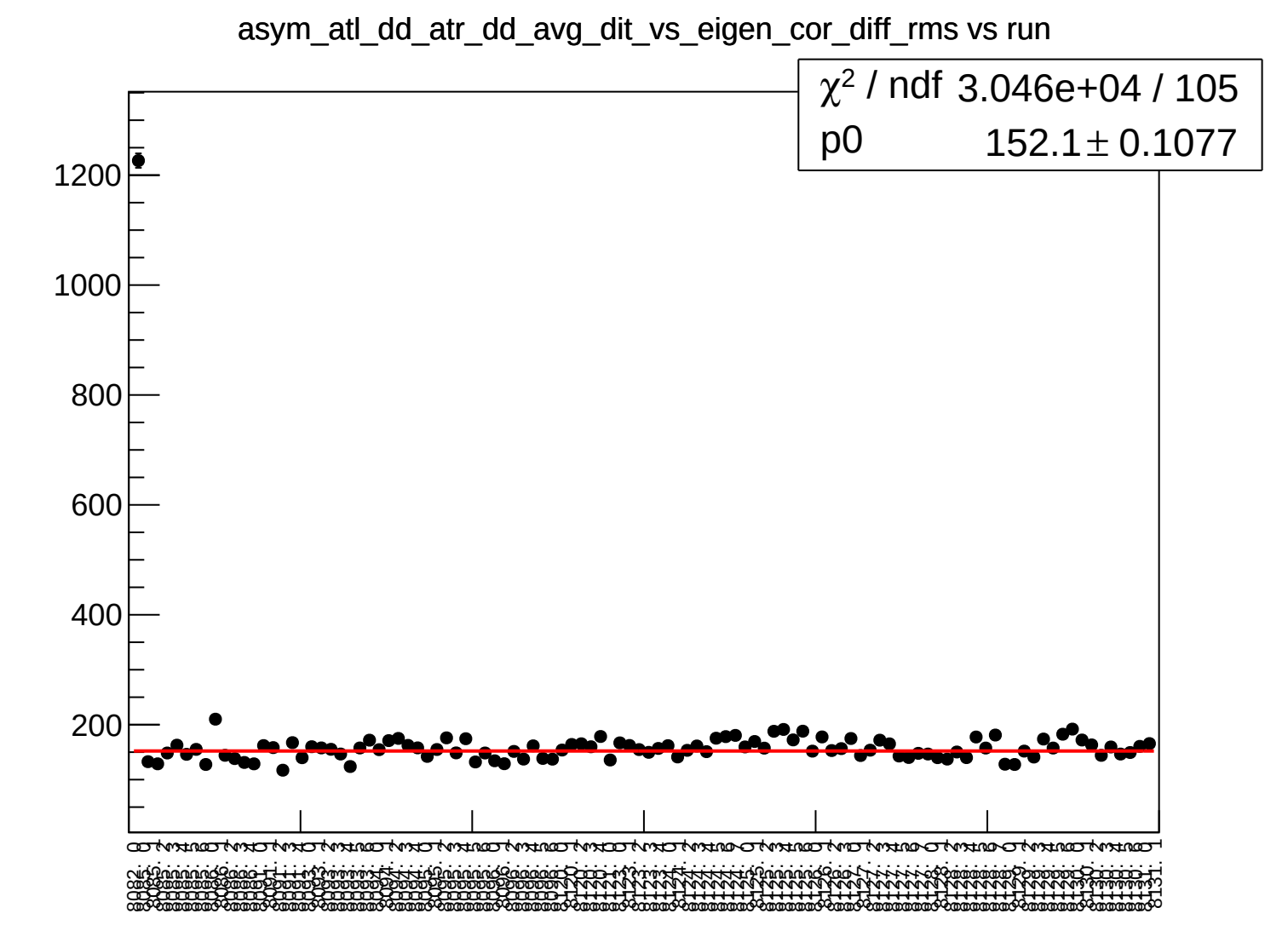

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 112.4 / 105
p0 −0.1747 ± 0.1524
pull
Entries 106
Mean 699.4
Std Dev 0

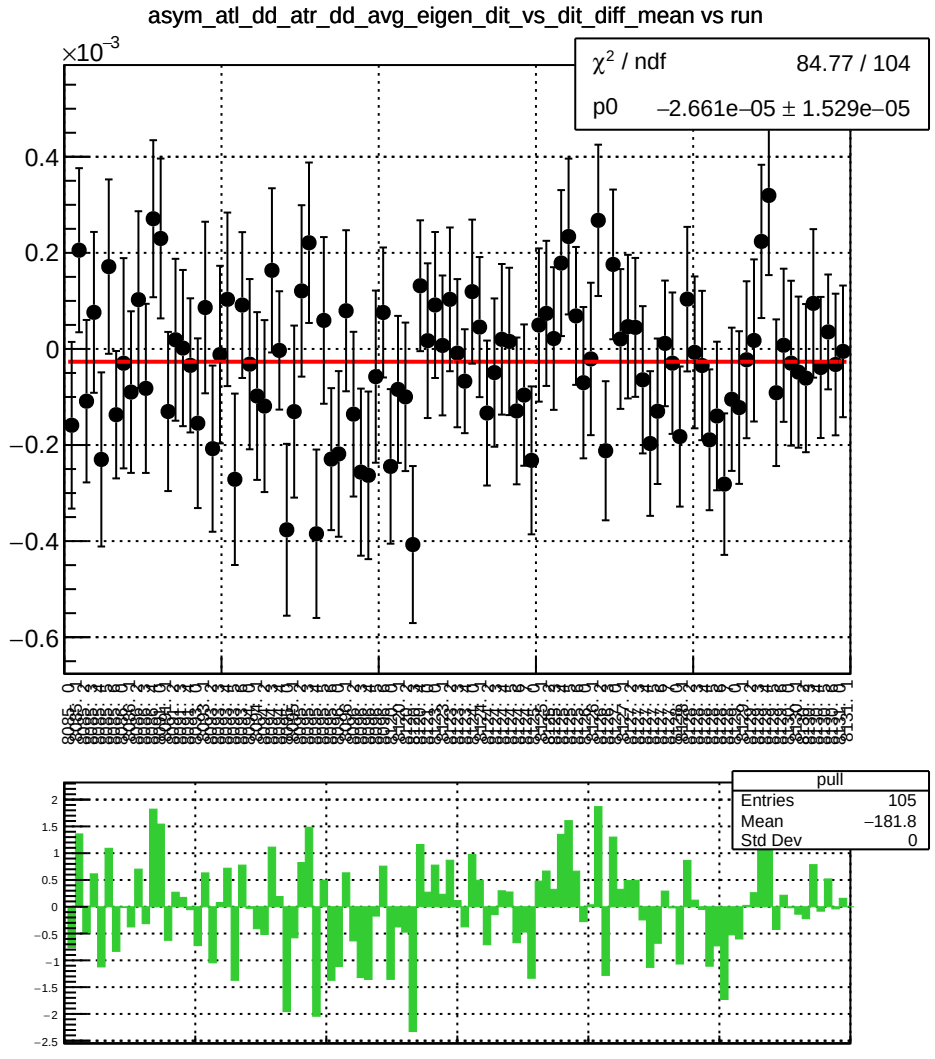

pull1D
Entries 106
Mean 0.005328
Std Dev 1.03

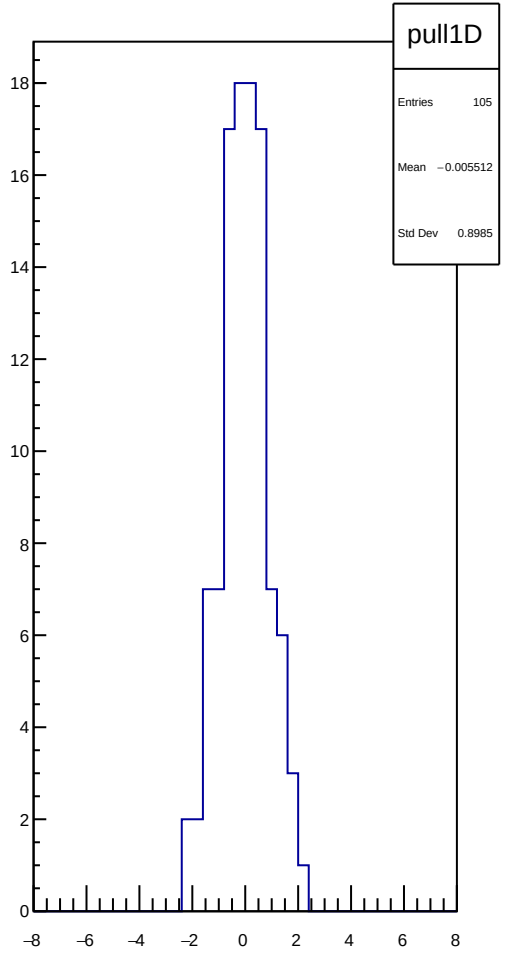

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.046e+04 / 105
p0 152.1 ± 0.1077
1200
1000
800
600
400
200

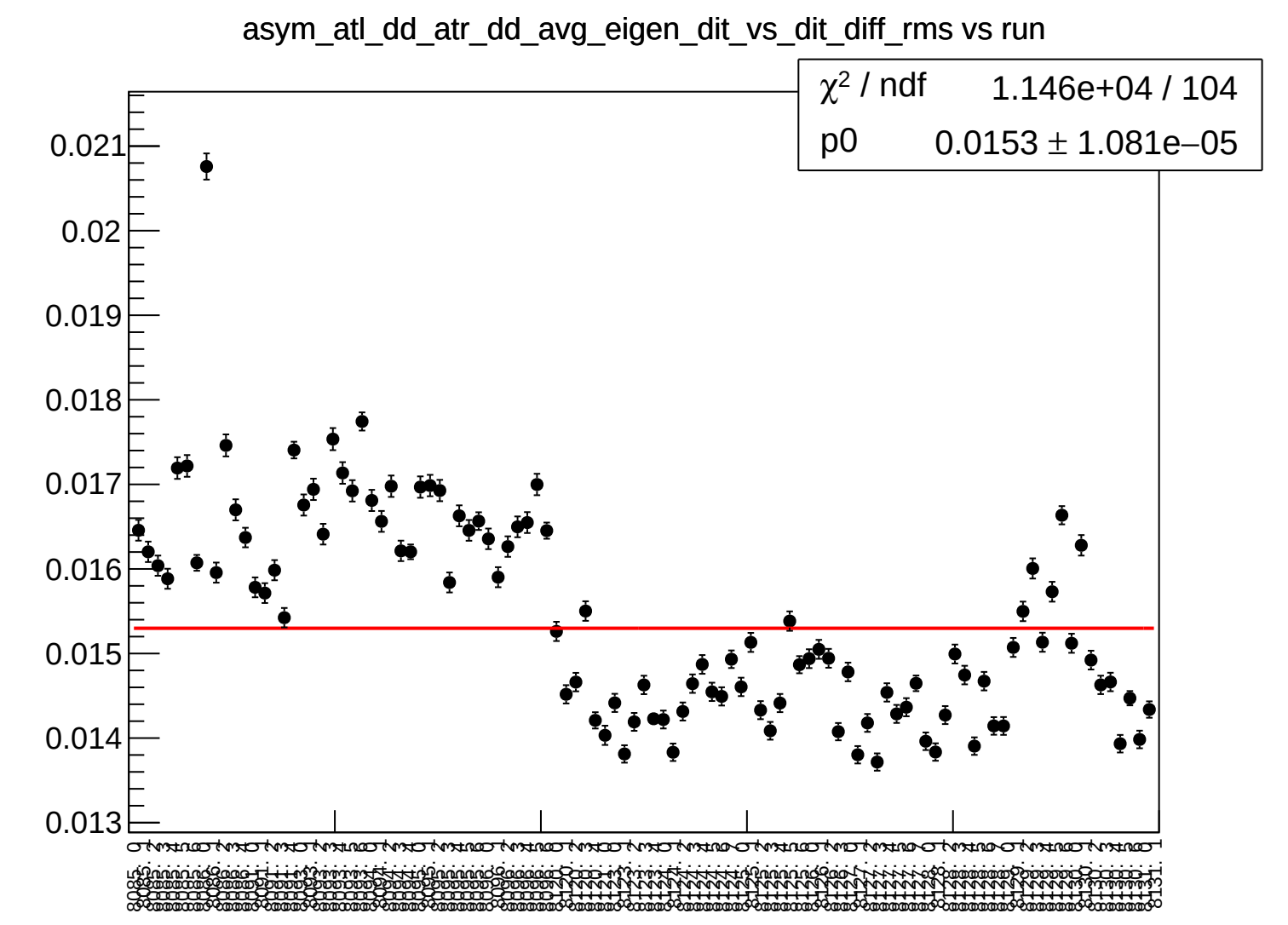

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 112.4 / 105
p0 −0.1747 ± 0.1524
pull
Entries 106
Mean 699.4
Std Dev 0

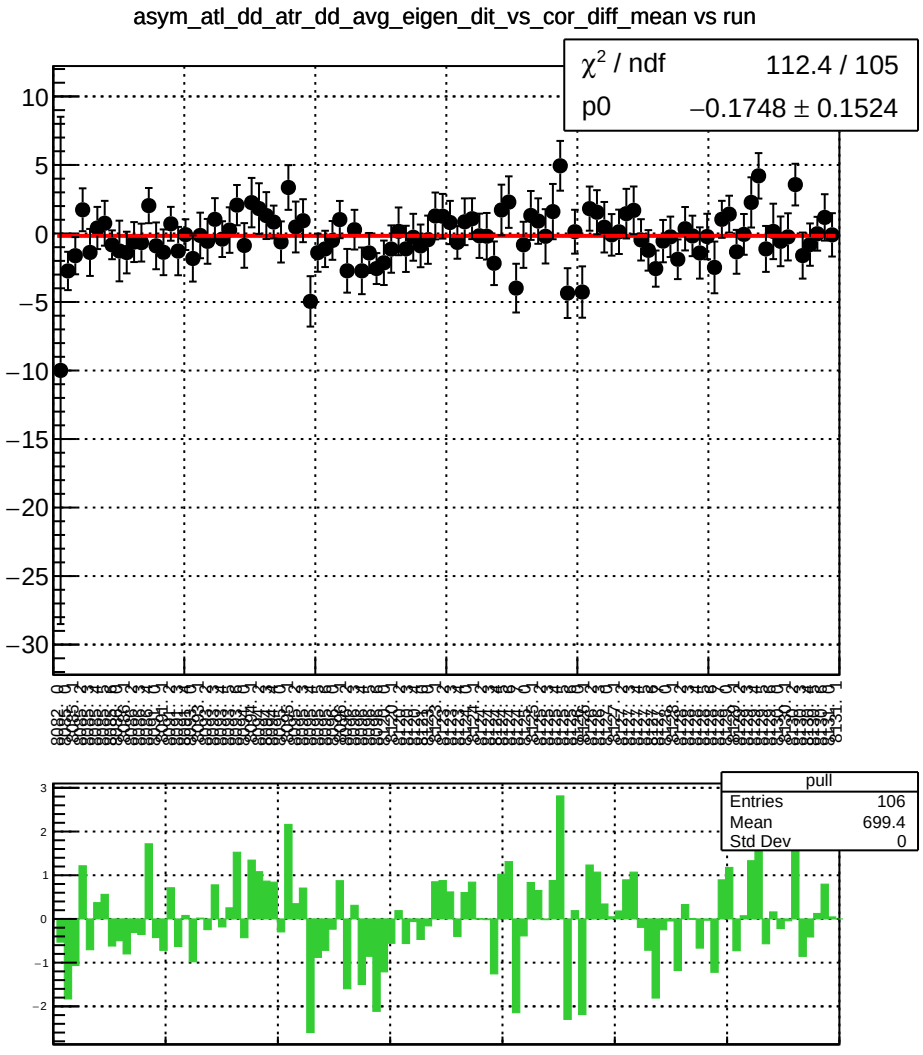

pull1D
Entries 106
Mean 0.005328
Std Dev 1.03

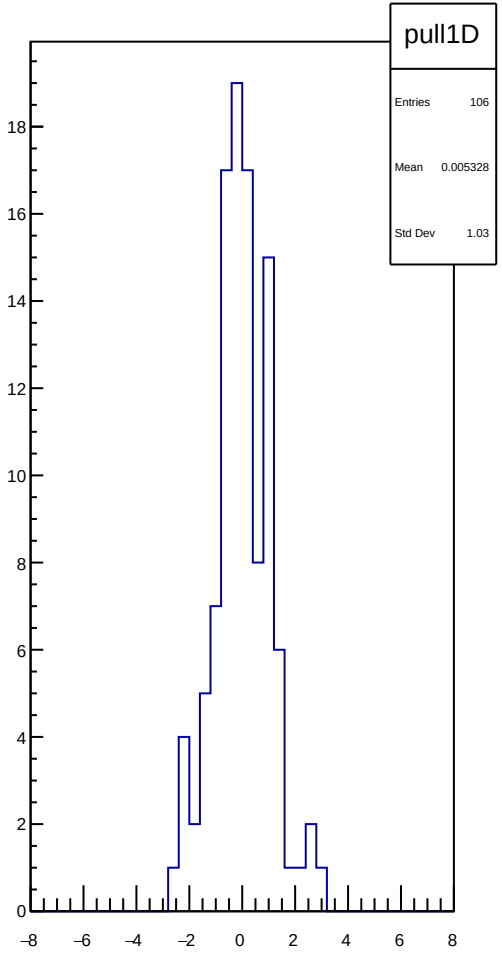

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.046e+04 / 105
p0 152.1 ± 0.1077
1200
1000
800
600
400
200

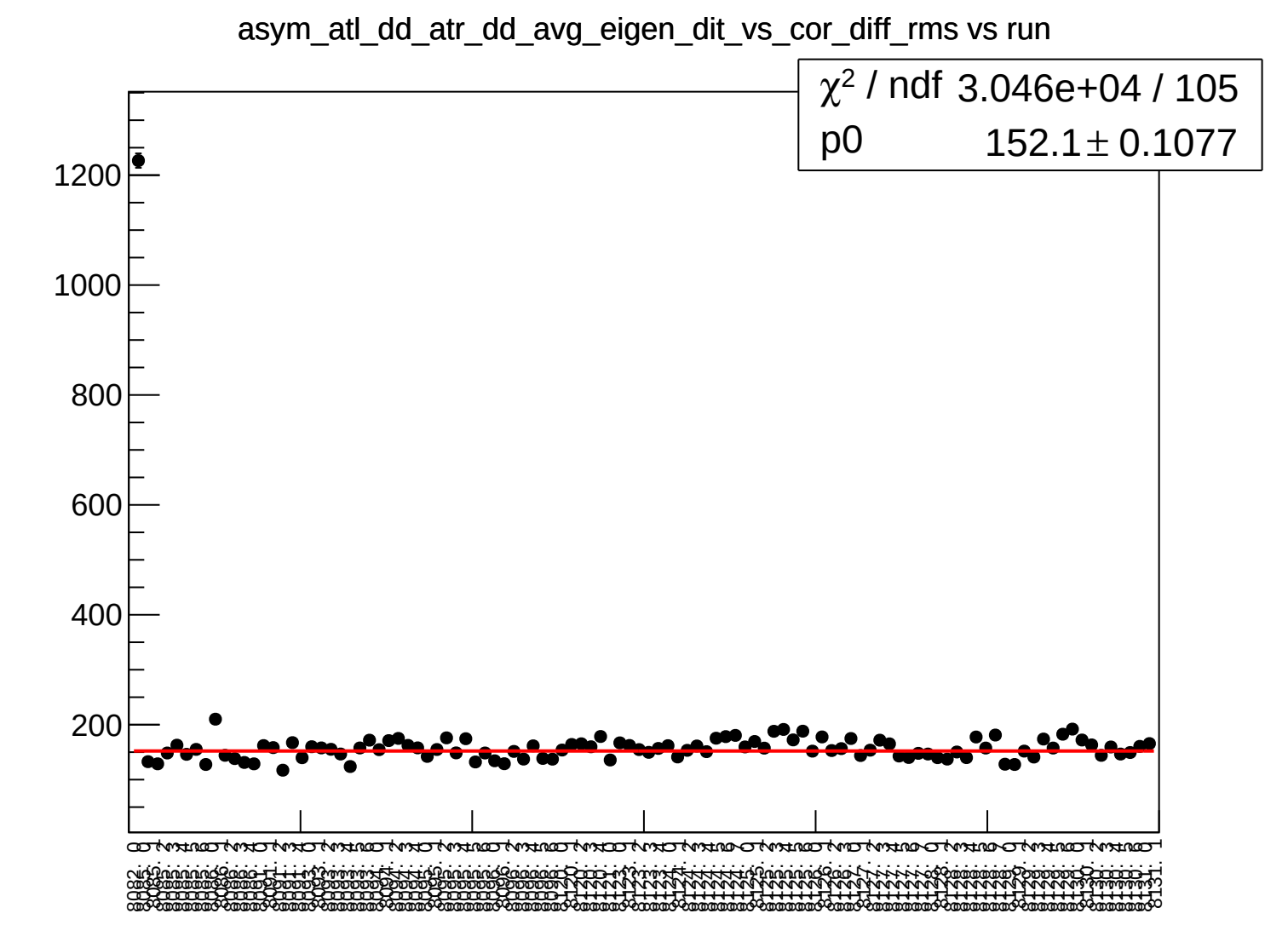

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84.77 / 104
p0 −2.661e−05 ± 1.529e−05
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 105
Mean −181.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

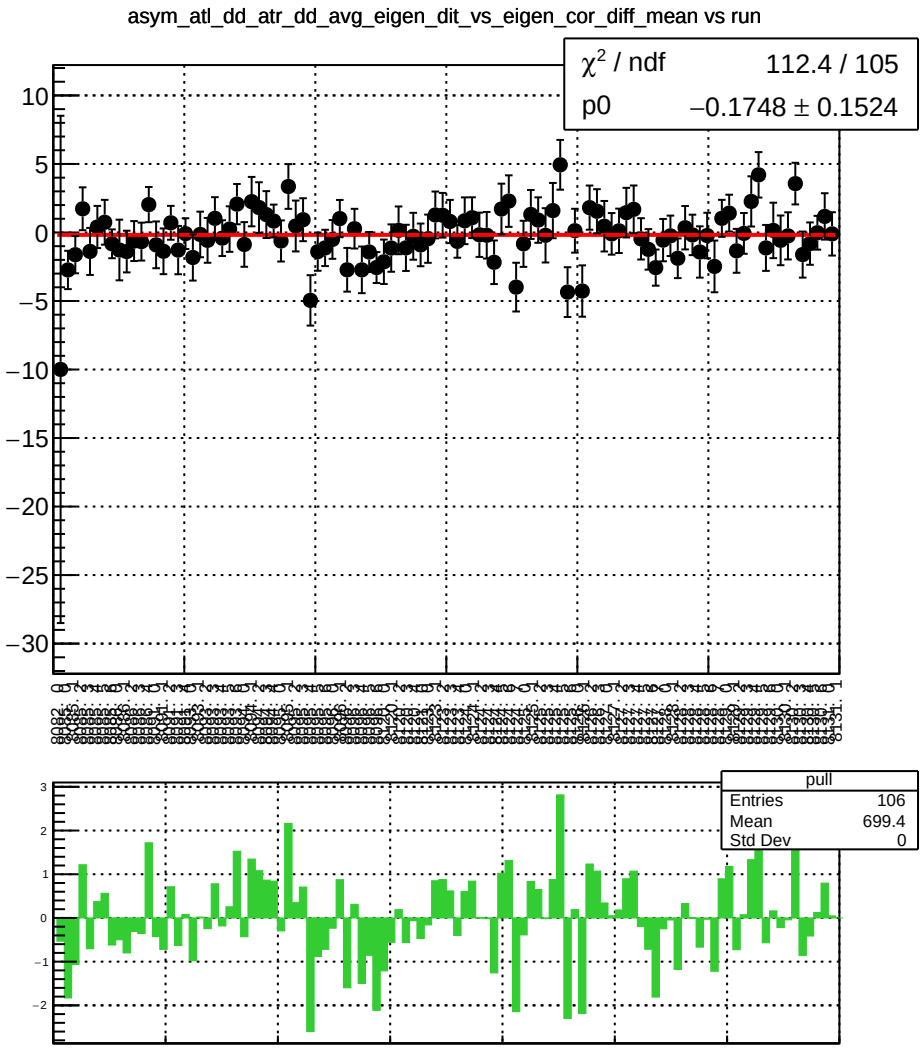

pull1D
Entries 105
Mean −0.005512
Std Dev 0.8985
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

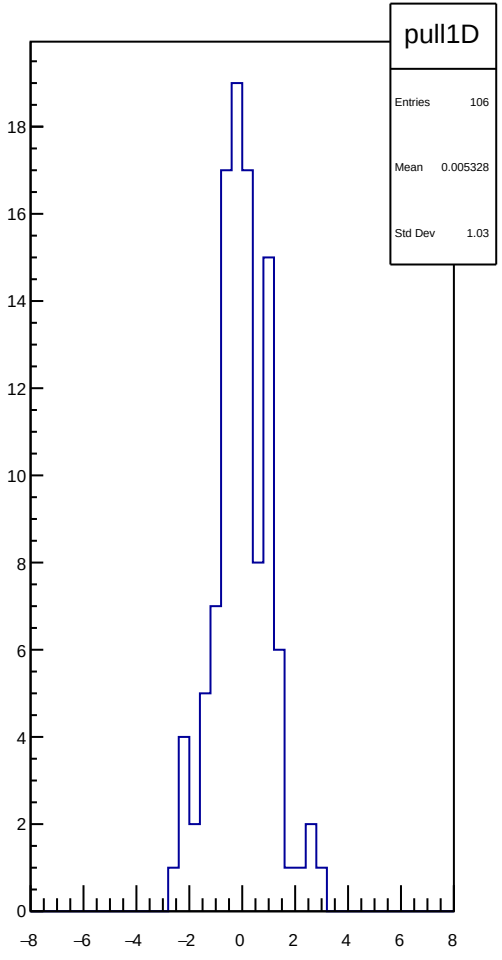

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.146e+04 / 104
p0 0.0153 ± 1.081e−05
0.021
0.02
0.019
0.018
0.017
0.016
0.015
0.014
0.013

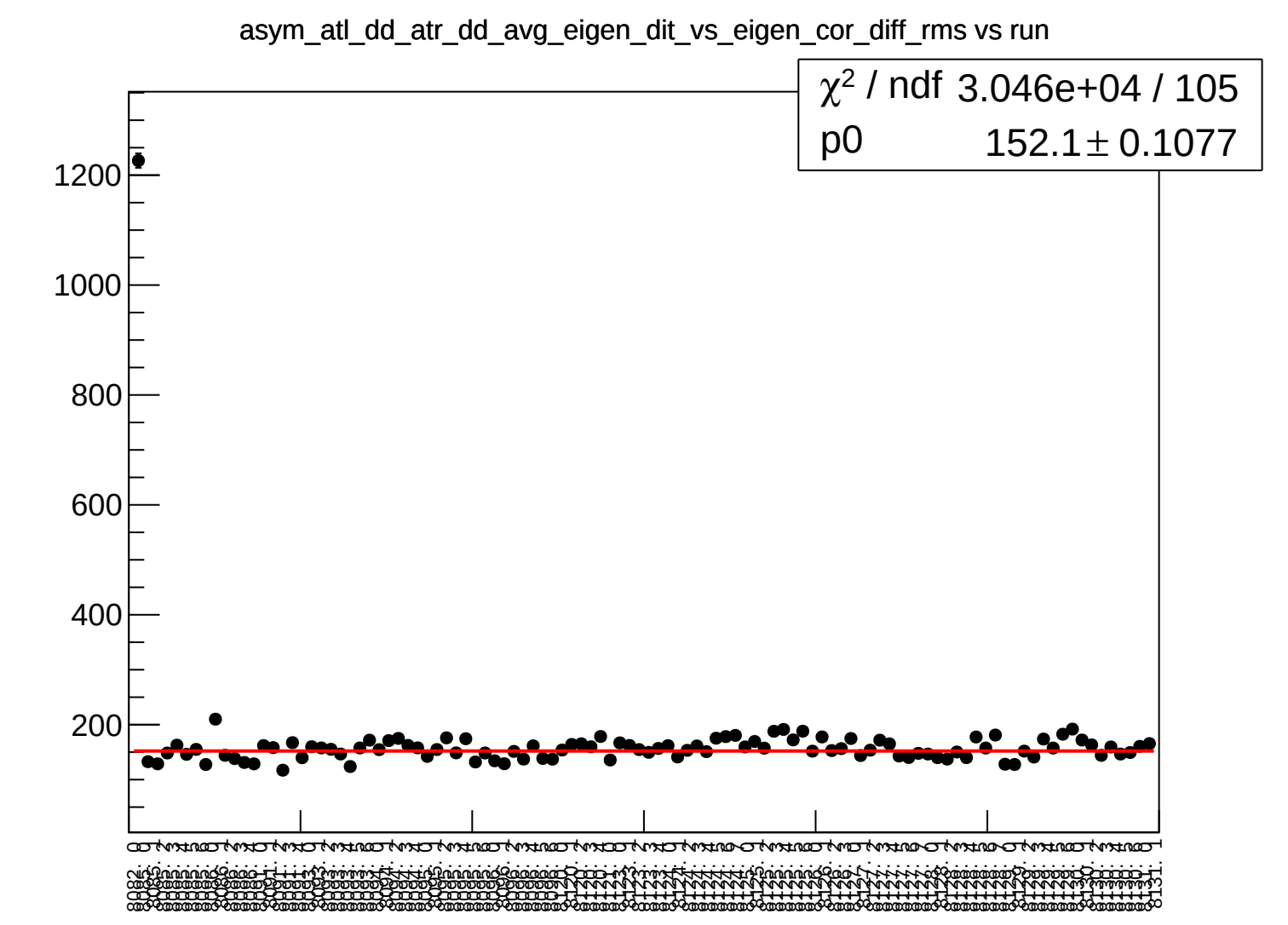

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 112.4 / 105
p0 −0.1748 ± 0.1524
pull
Entries 106
Mean 699.4
Std Dev 0

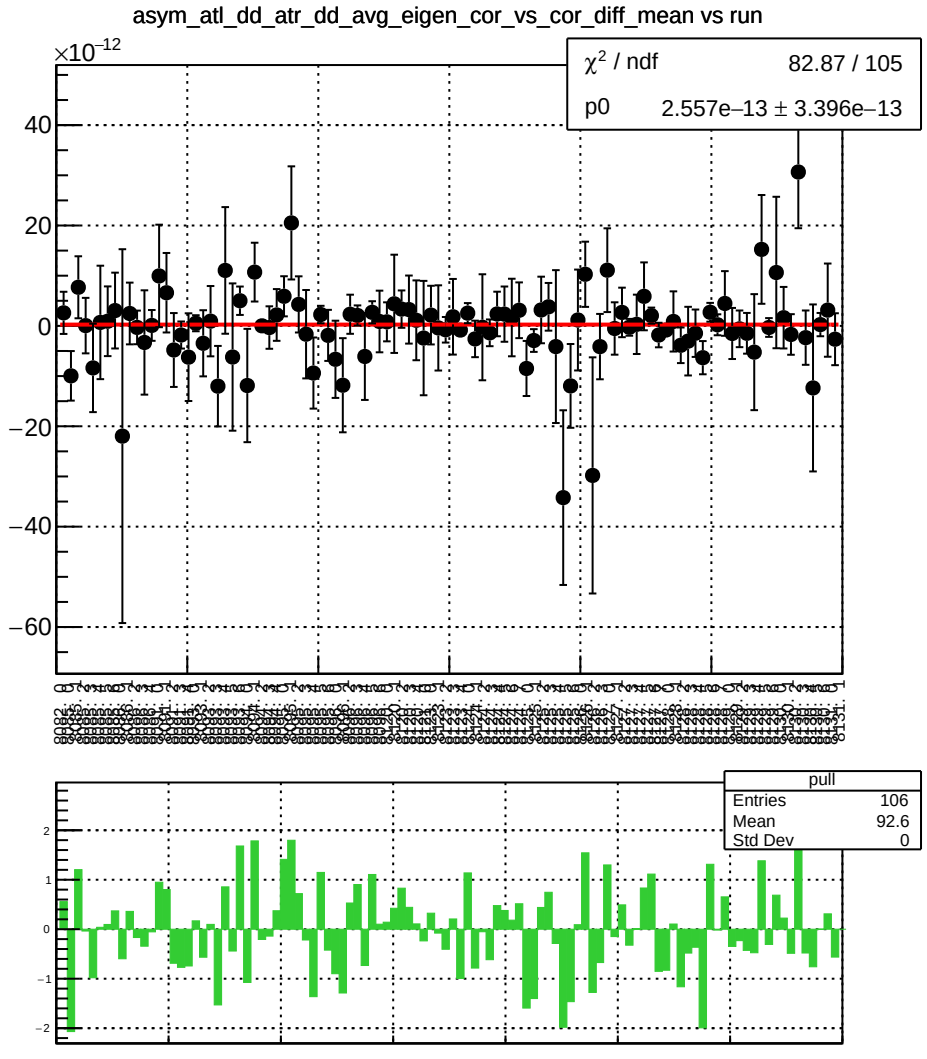

pull1D
Entries 106
Mean 0.005328
Std Dev 1.03

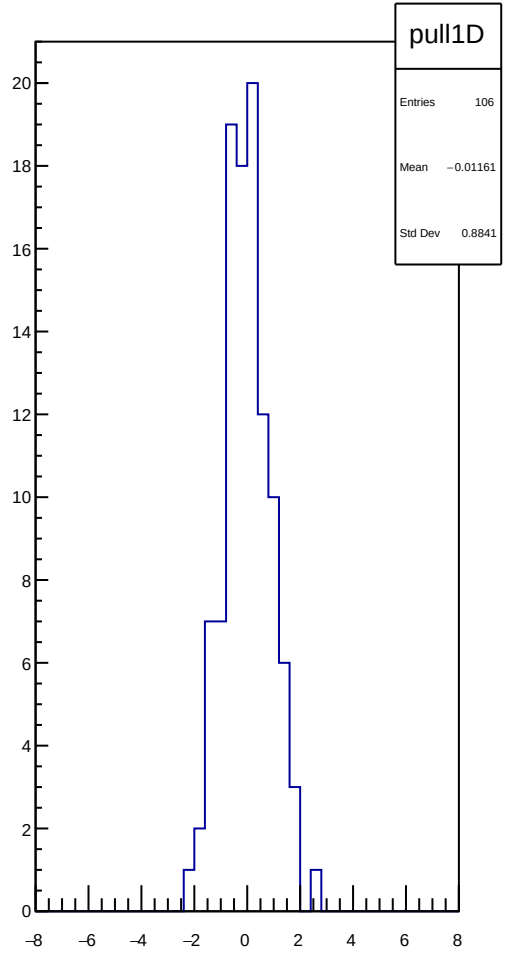

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.046e+04 / 105
p0 152.1 ± 0.1077
1200
1000
800
600
400
200

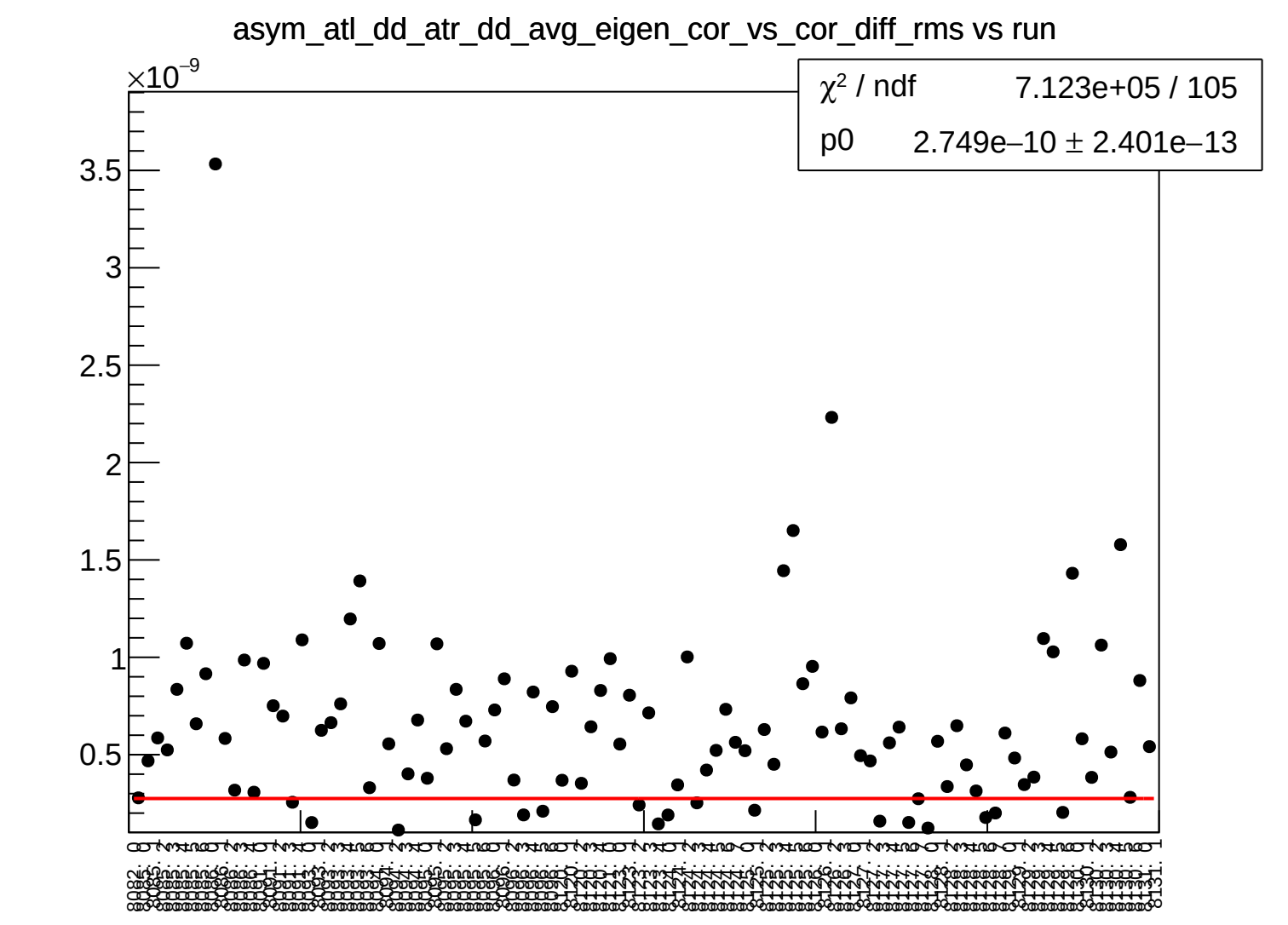

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 112.4 / 105
p0 −0.1748 ± 0.1524
pull
Entries 106
Mean 699.4
Std Dev 0

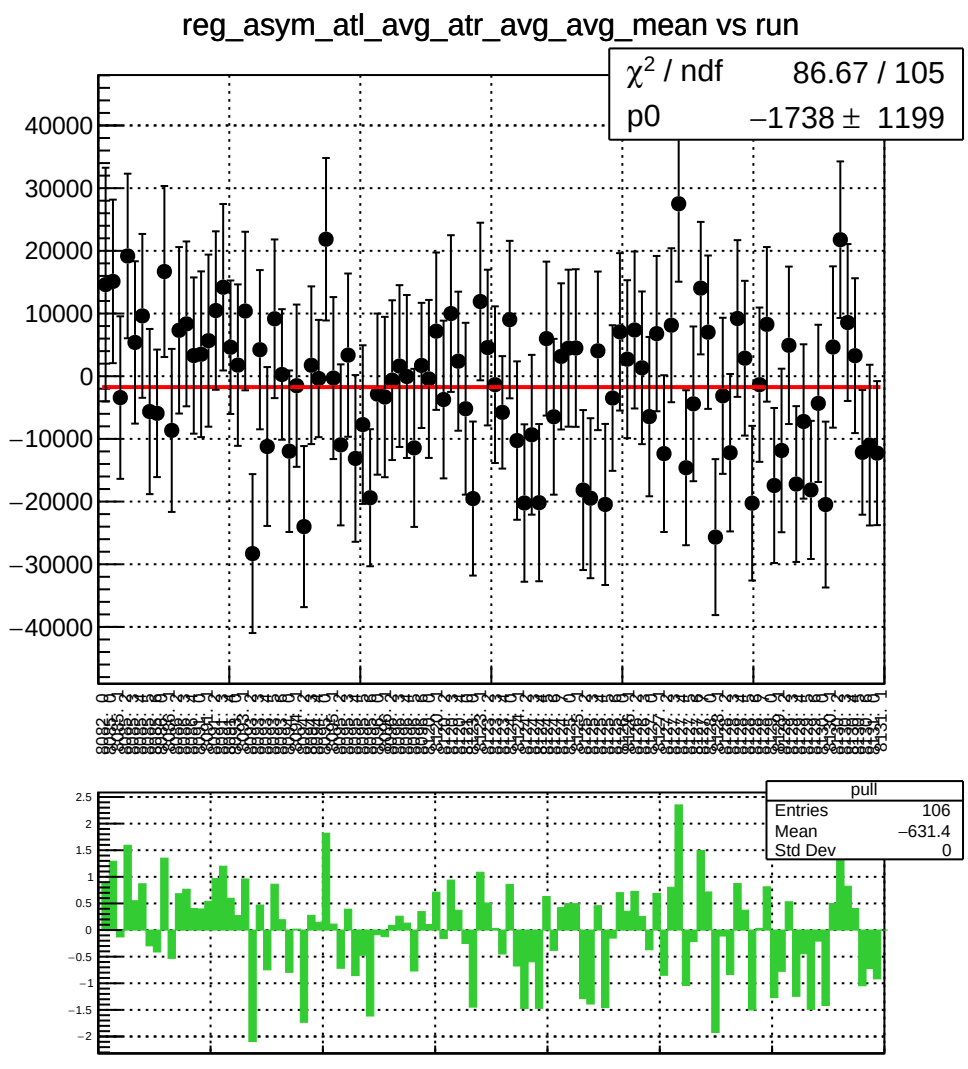

pull1D
Entries 106
Mean 0.005328
Std Dev 1.03

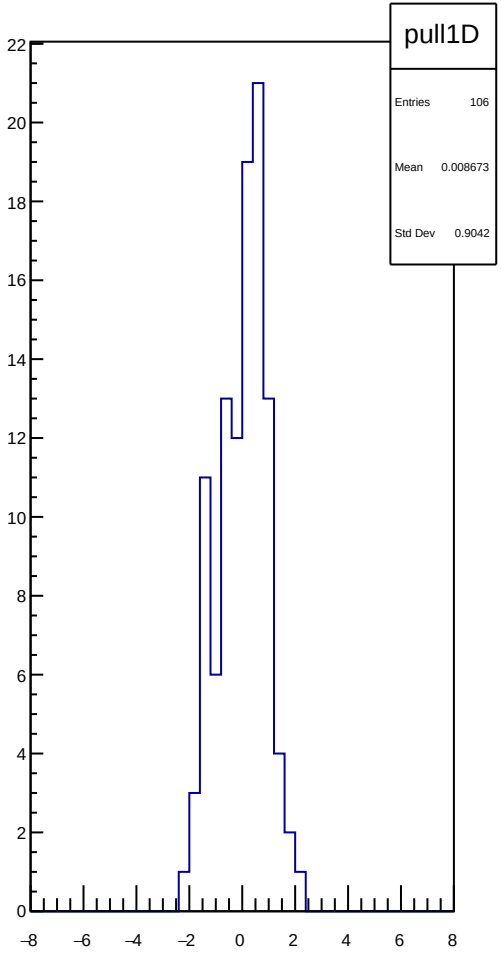

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.046e+04 / 105
p0 152.1 ± 0.1077
1200
1000
800
600
400
200

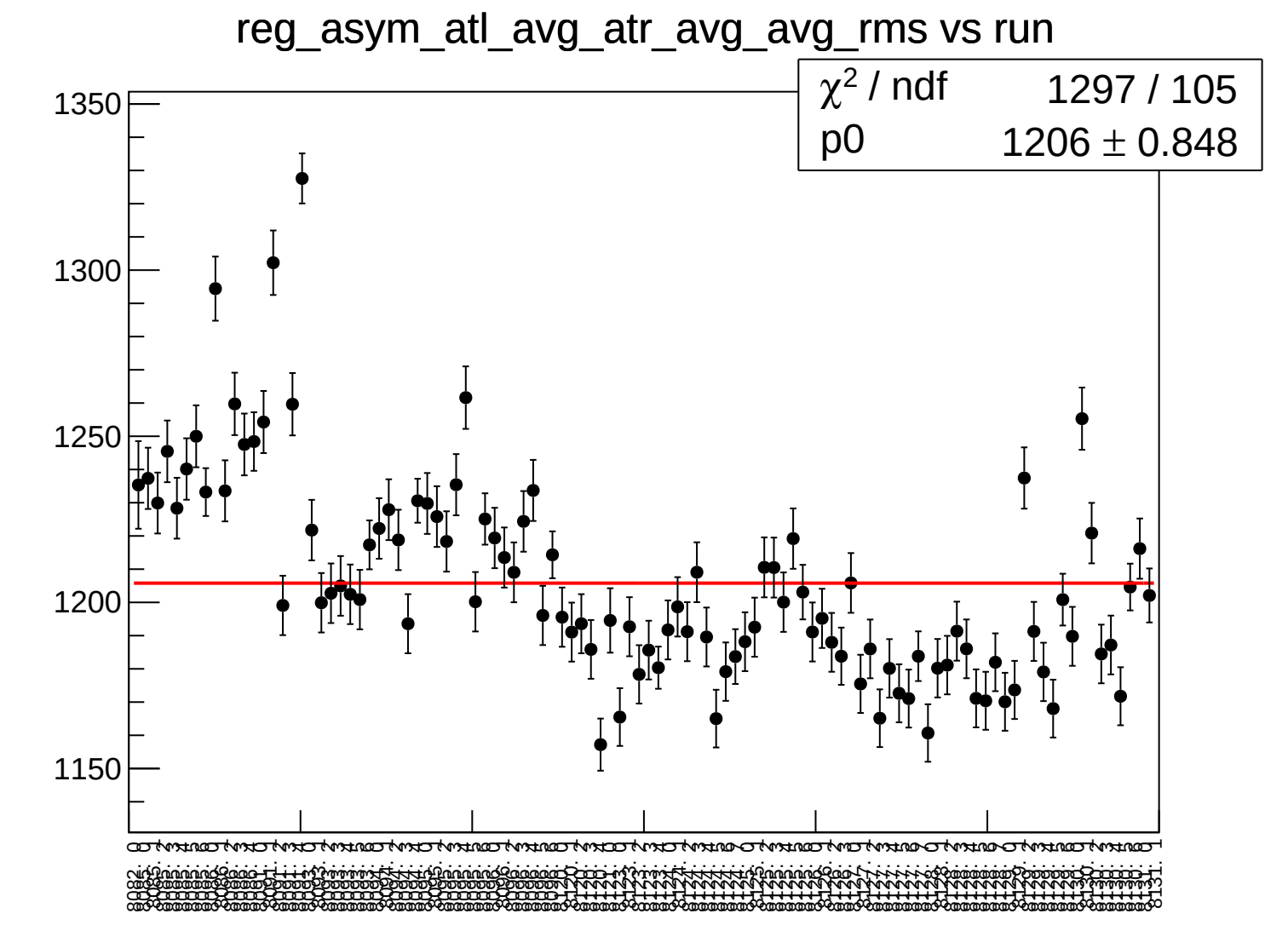

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.87 / 105
p0 2.557e−13 ± 3.396e−13
40
20
0
−20
−40
−60
pull
Entries 106
Mean 92.6
Std Dev 0
2
1
0
−1
−2

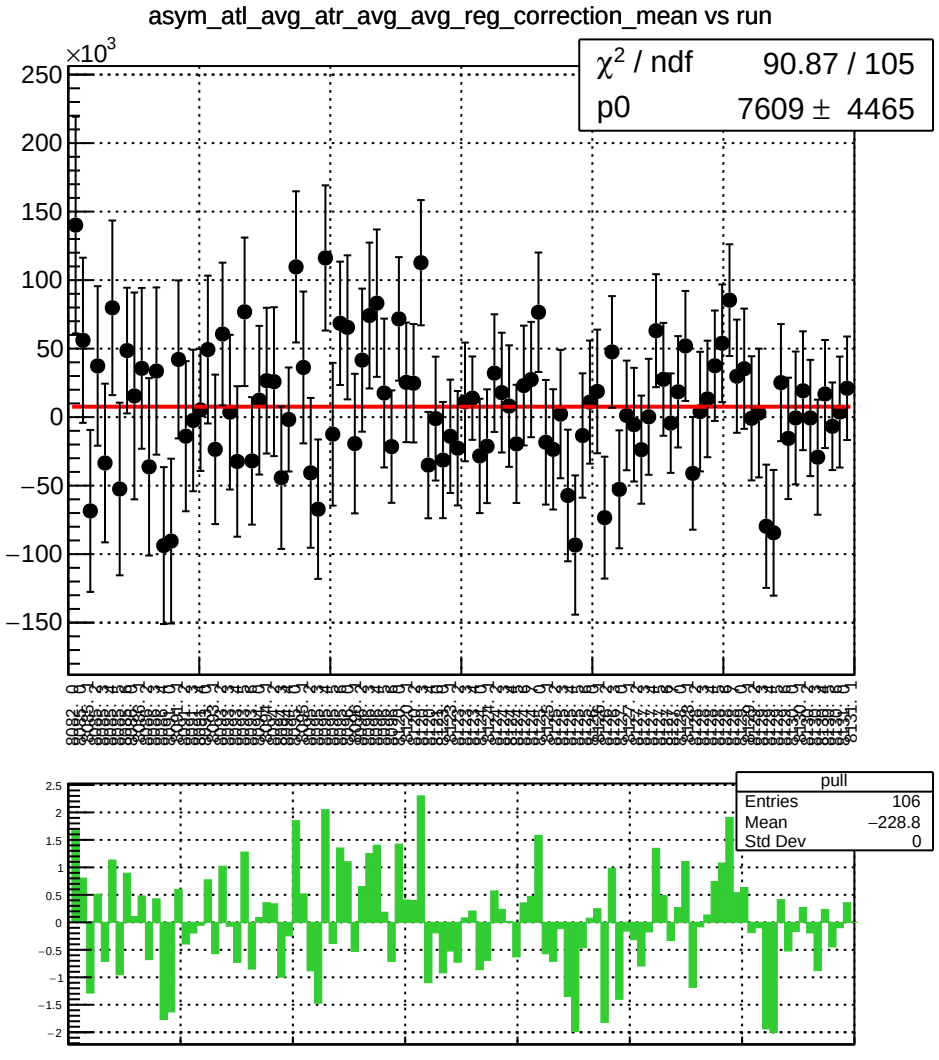

pull1D
Entries 106
Mean −0.01161
Std Dev 0.8841
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

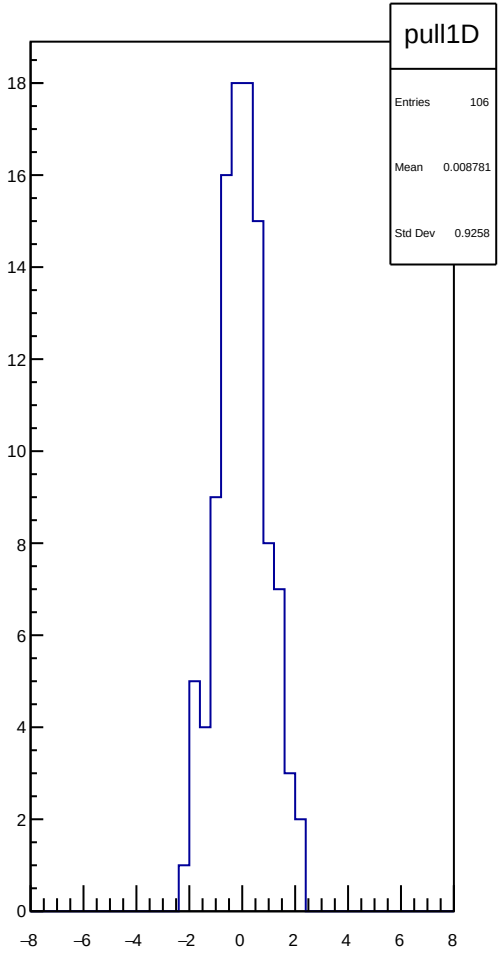

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.123e+05 / 105
p0 2.749e−10 ± 2.401e−13
3.5
3
2.5
2
1.5
1
0.5

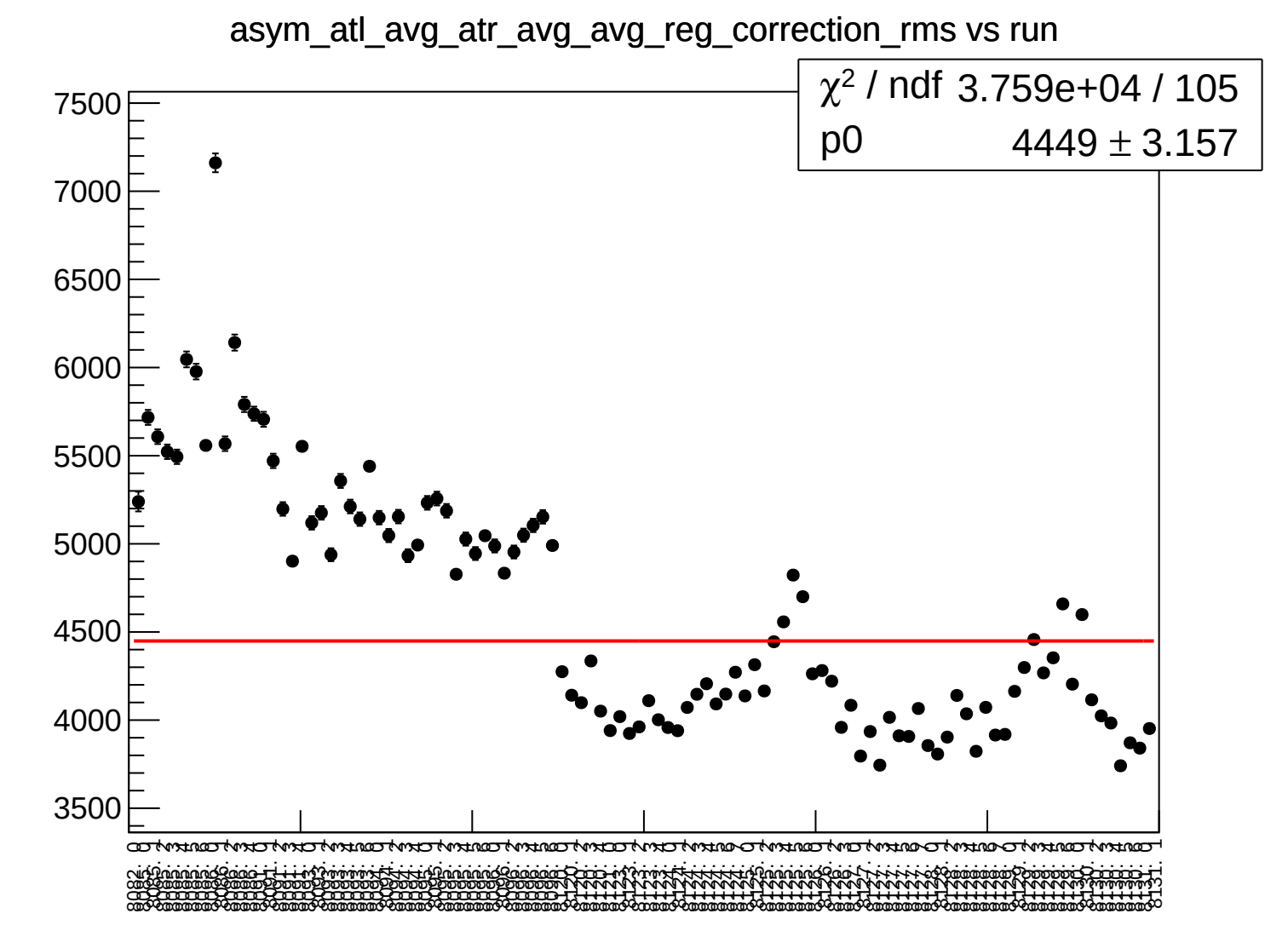

reg_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 86.67 / 105
p0 −1738 ± 1199
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 106
Mean −631.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

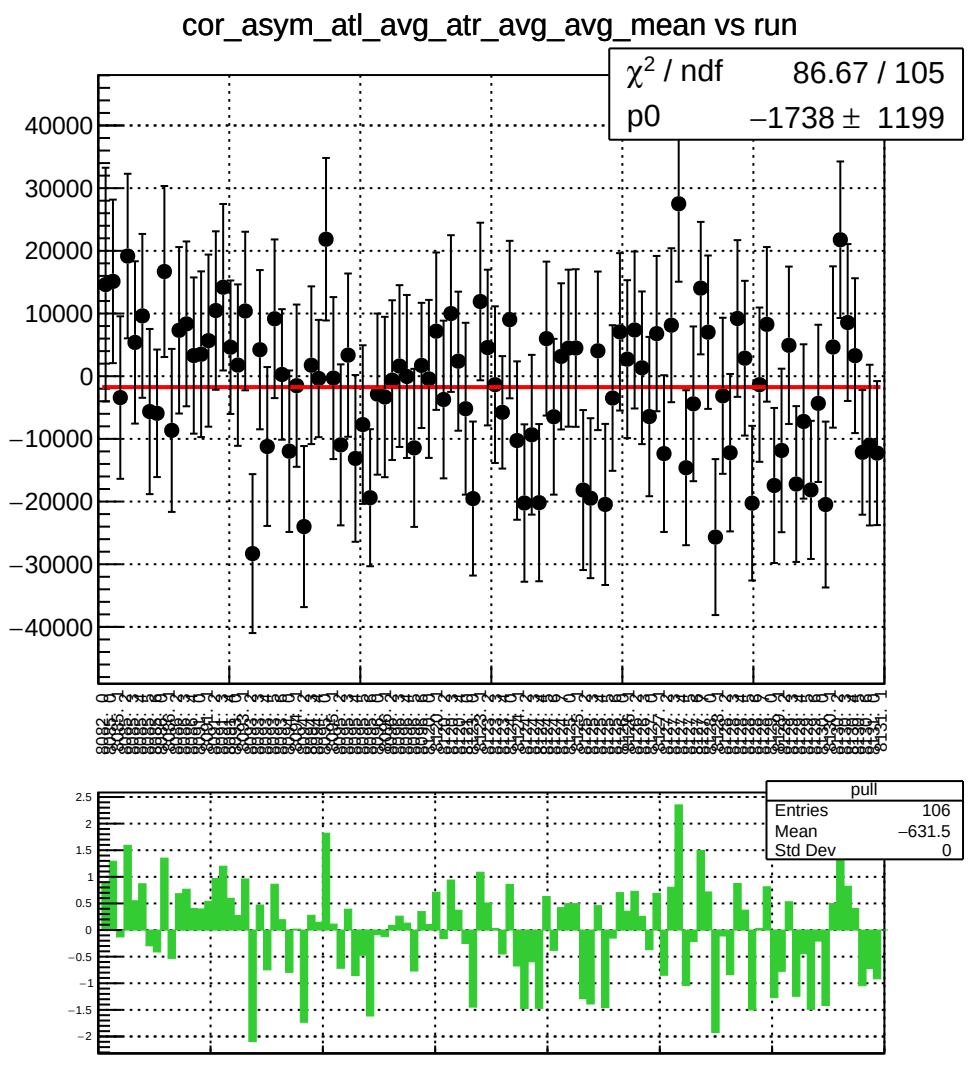

pull1D
Entries 106
Mean 0.008673
Std Dev 0.9042
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

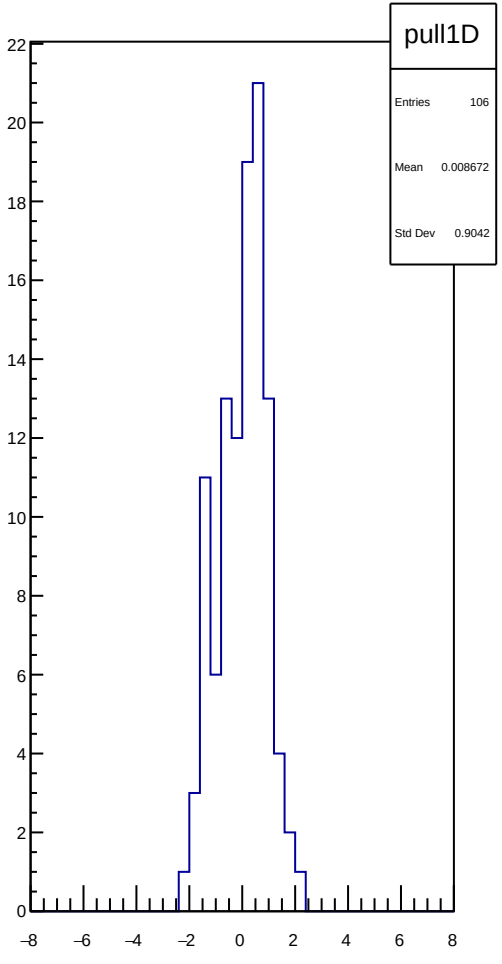

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 1297 / 105
p0 1206 ± 0.848
1350
1300
1250
1200
1150

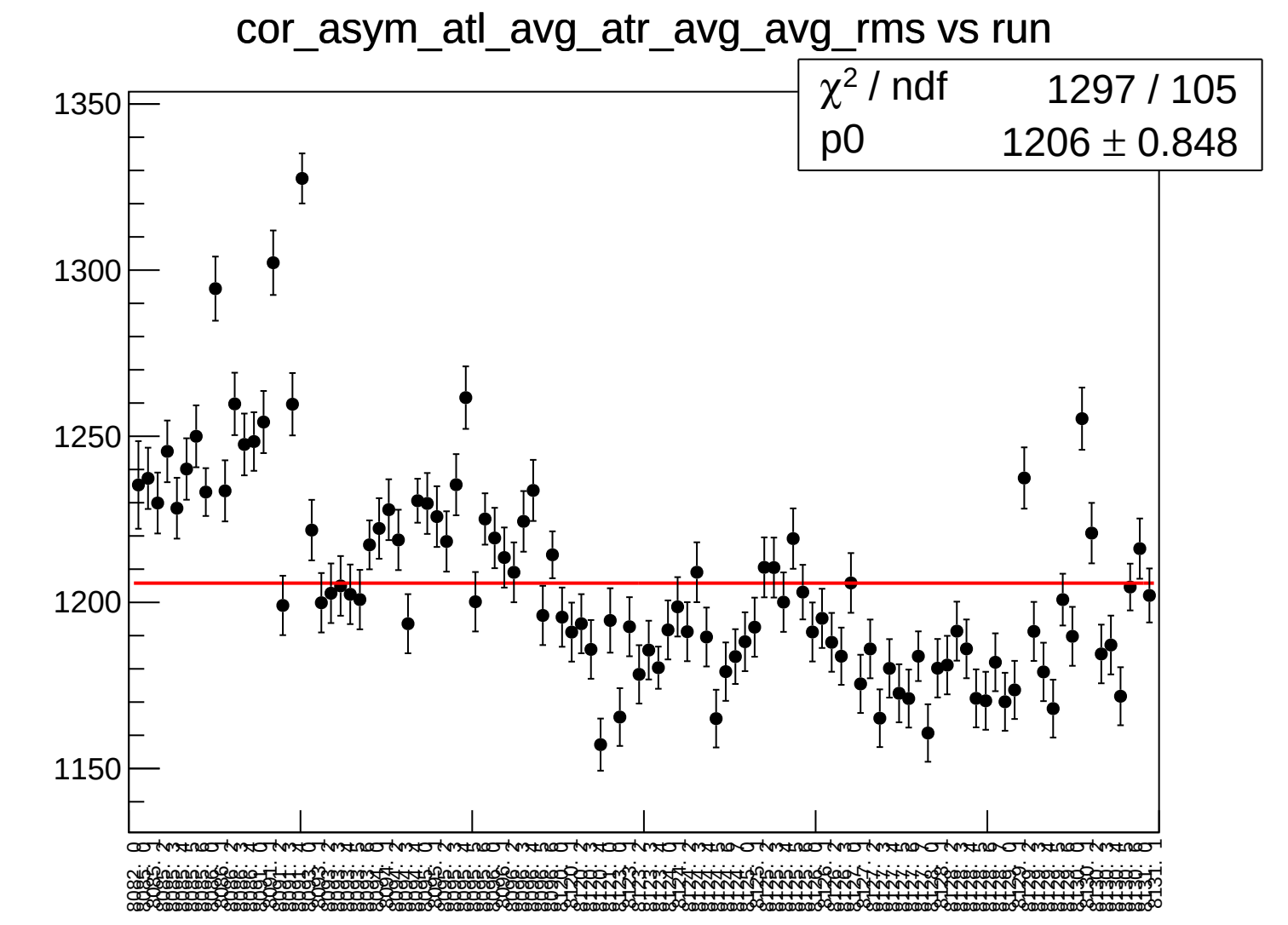

asym_atl_avg_atr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 90.87 / 105
p0 7609 ± 4465
pull
Entries 106
Mean −228.8
Std Dev 0

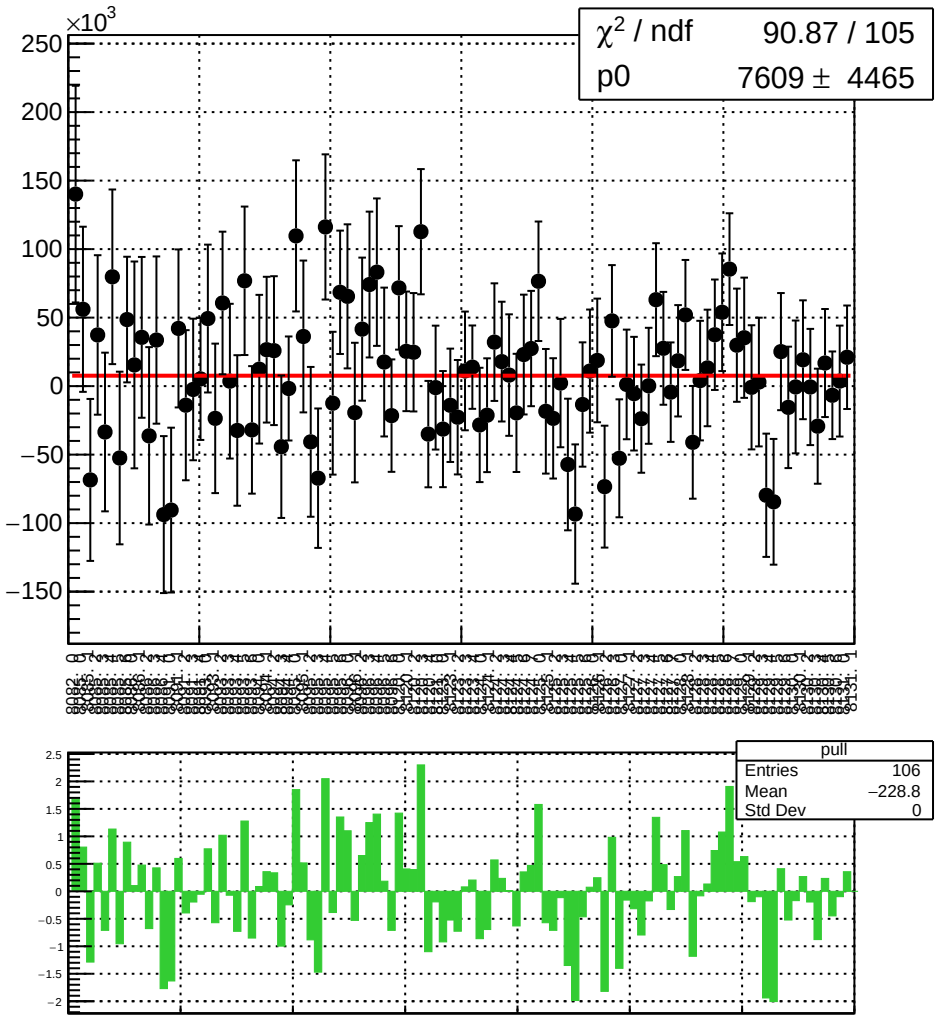

pull1D
Entries 106
Mean 0.008781
Std Dev 0.9258

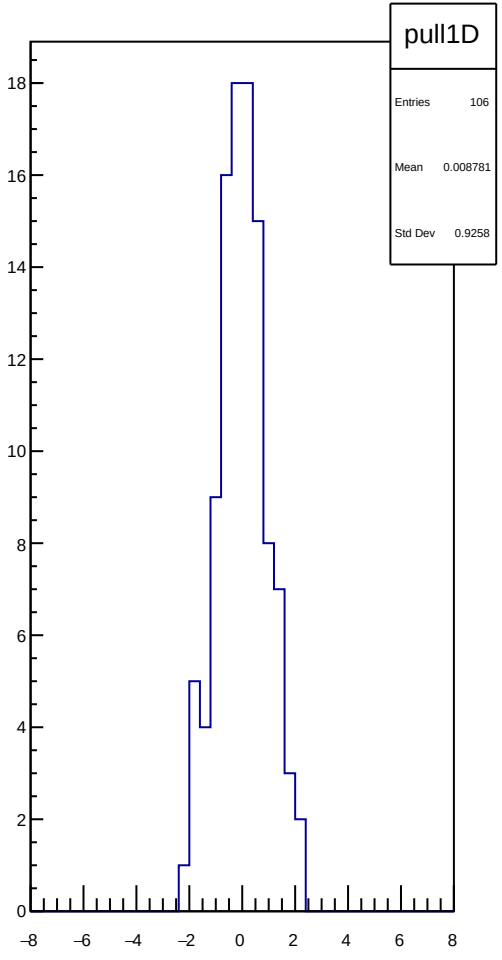

asym_atl_avg_atr_avg_avg_reg_correction_rms vs run
χ² / ndf 3.759e+04 / 105
p0 4449 ± 3.157
7500
7000
6500
6000
5500
5000
4500
4000
3500

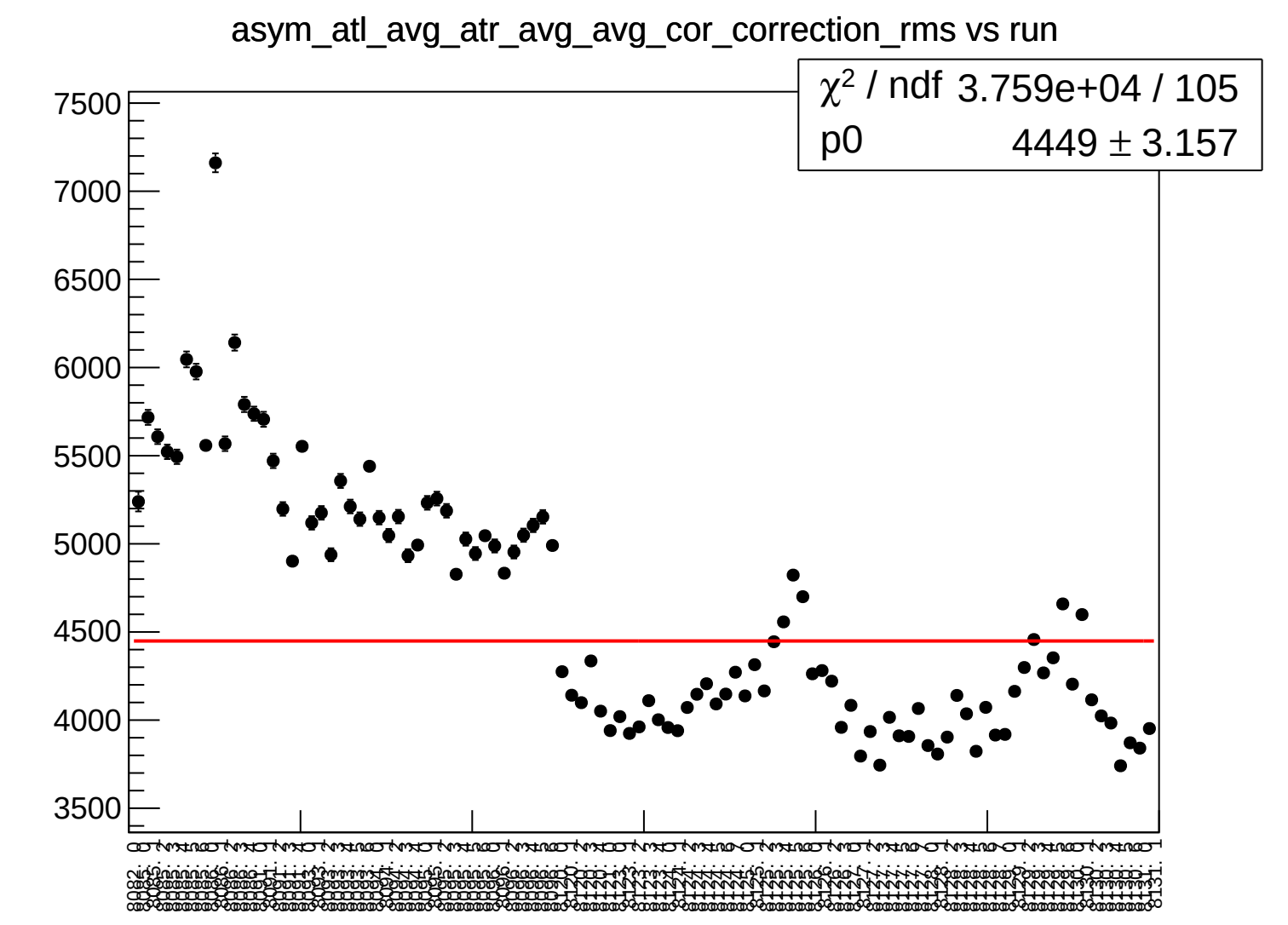

cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 86.67 / 105
p0 −1738 ± 1199
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 106
Mean −631.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

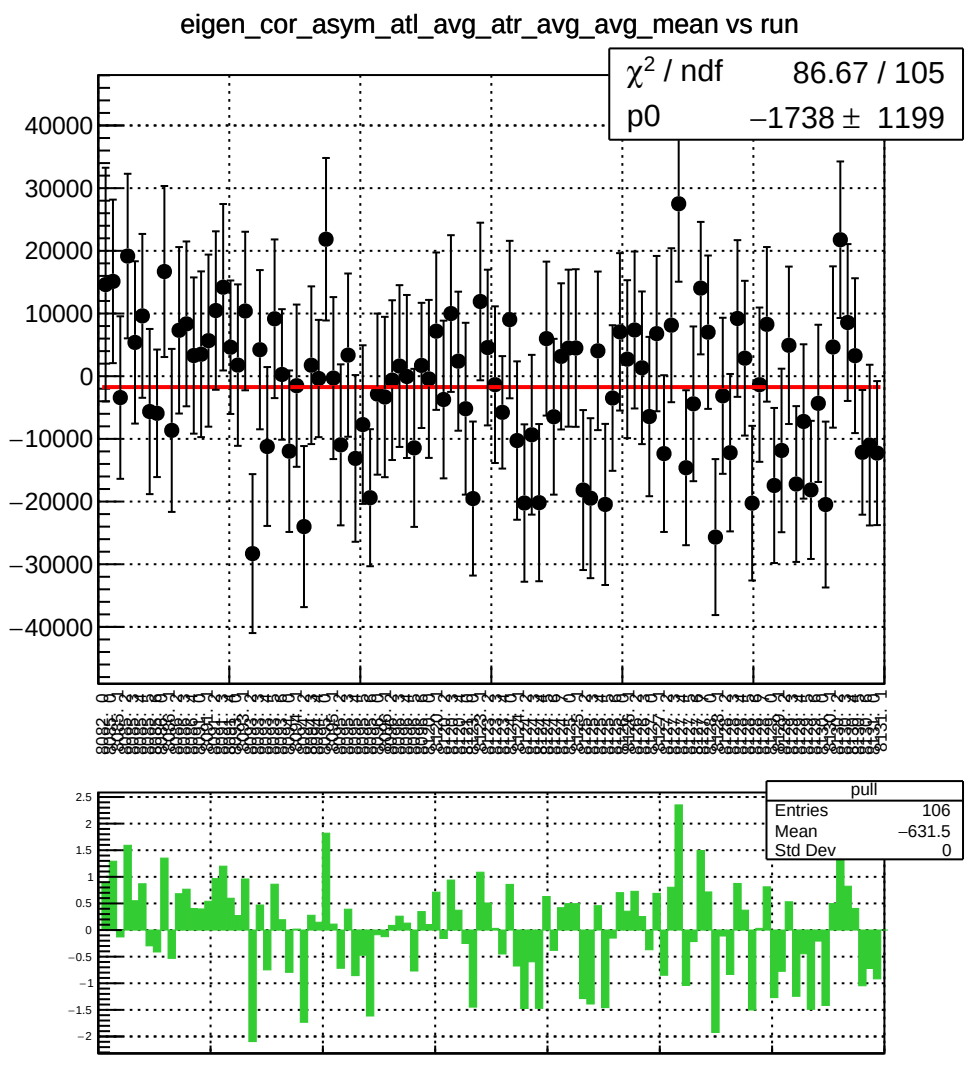

pull1D
Entries 106
Mean 0.008672
Std Dev 0.9042
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

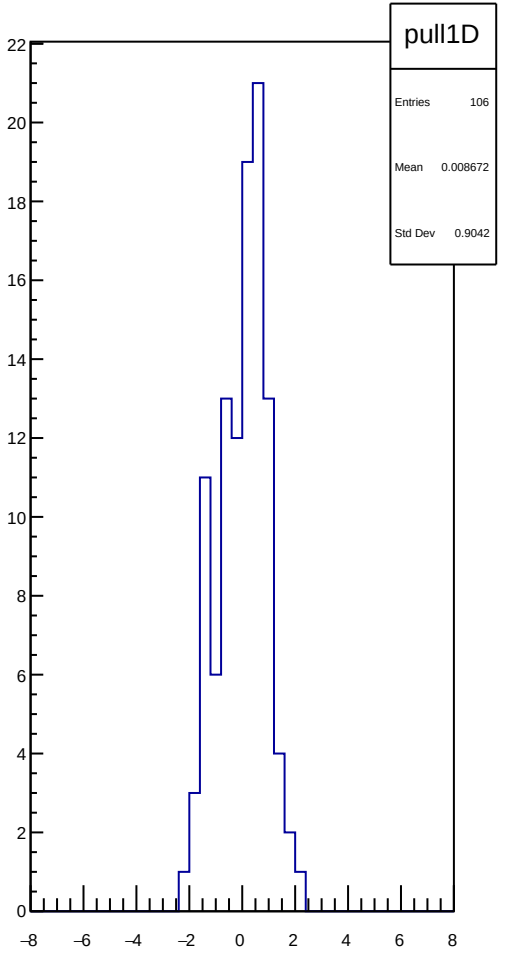

cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 1297 / 105
p0 1206 ± 0.848
1350
1300
1250
1200
1150

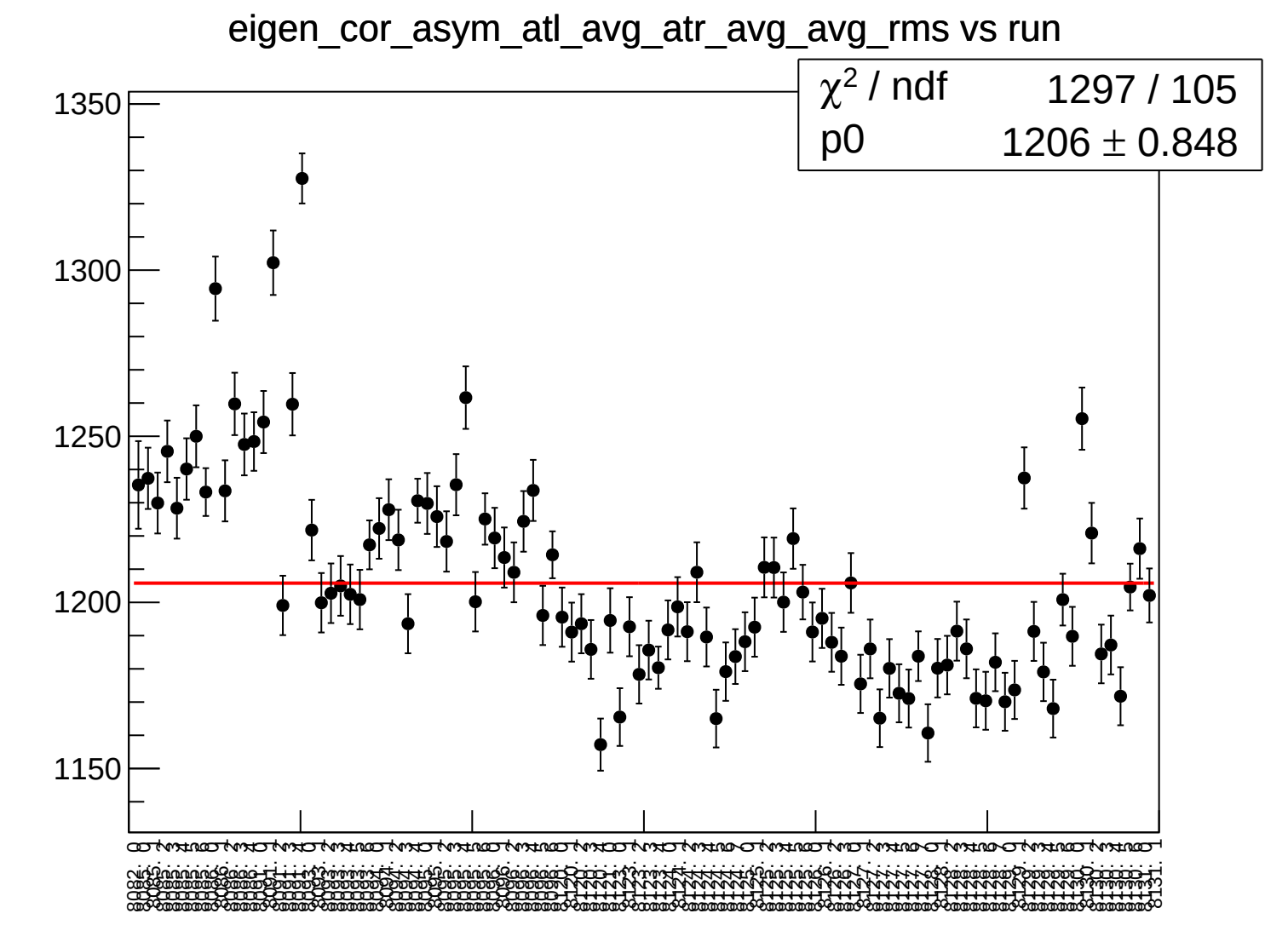

asym_atl_avg_atr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 90.87 / 105
p0 7609 ± 4465
pull
Entries 106
Mean −228.8
Std Dev 0

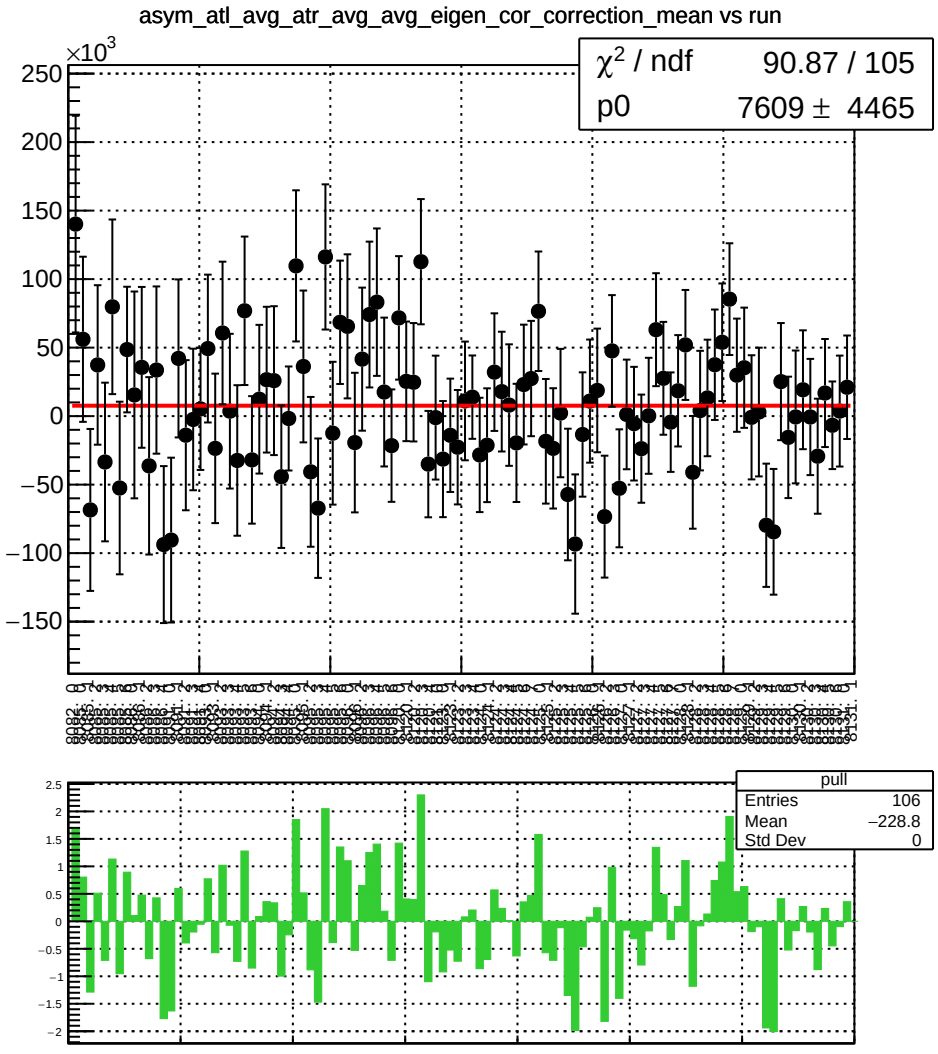

pull1D
Entries 106
Mean 0.008781
Std Dev 0.9258

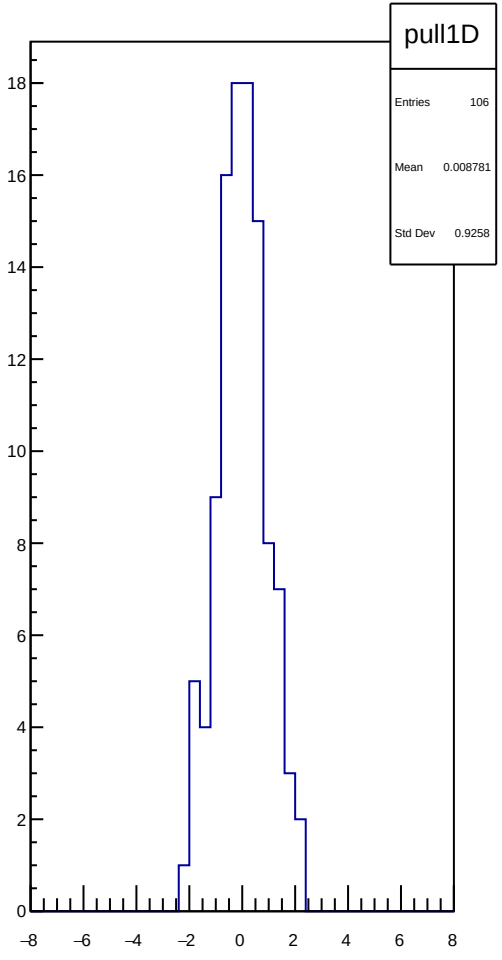

asym_atl_avg_atr_avg_avg_cor_correction_rms vs run
χ² / ndf 3.759e+04 / 105
p0 4449 ± 3.157
7500
7000
6500
6000
5500
5000
4500
4000
3500

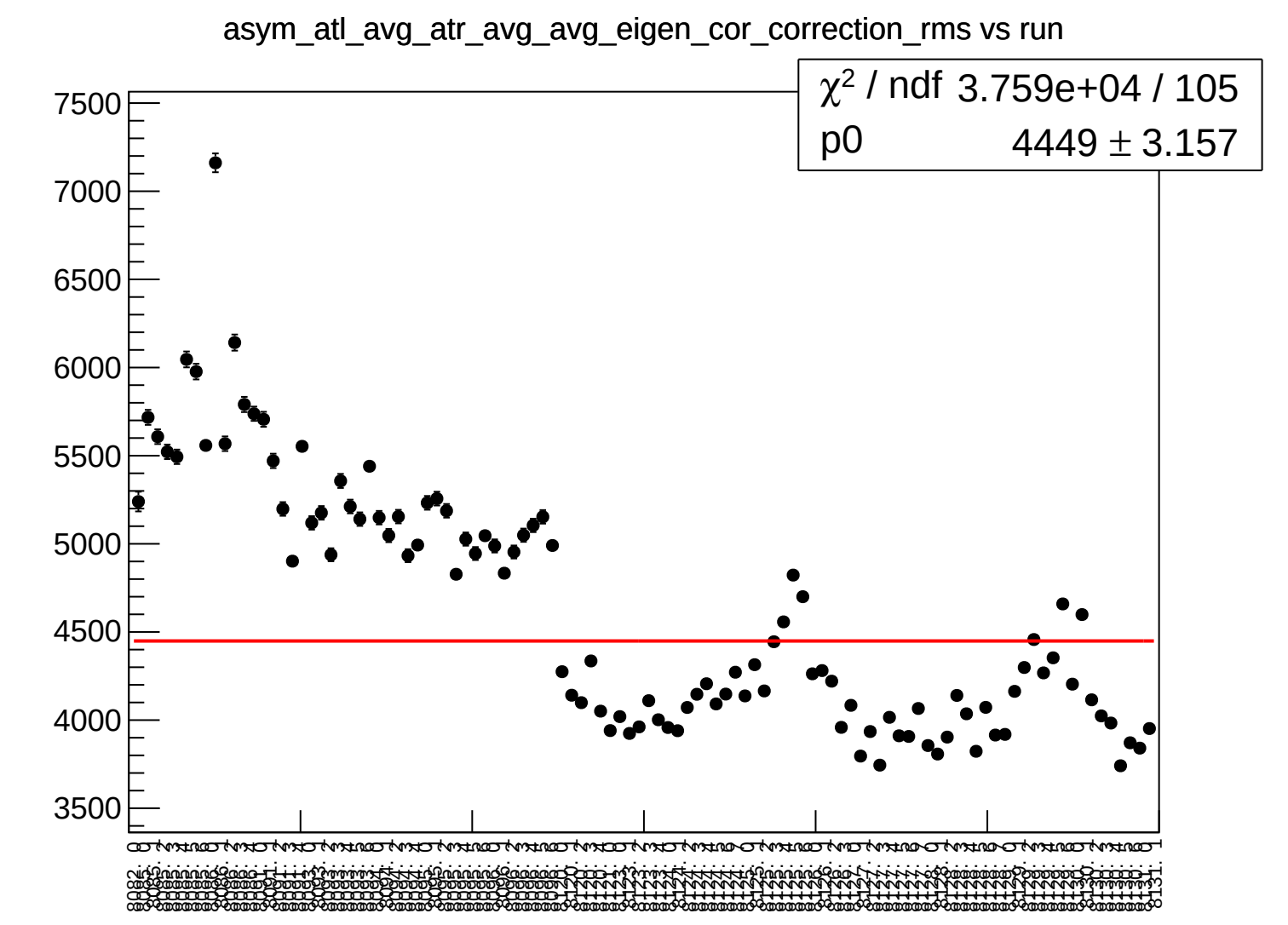

eigen_cor_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 86.67 / 105
p0 −1738 ± 1199
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 106
Mean −631.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

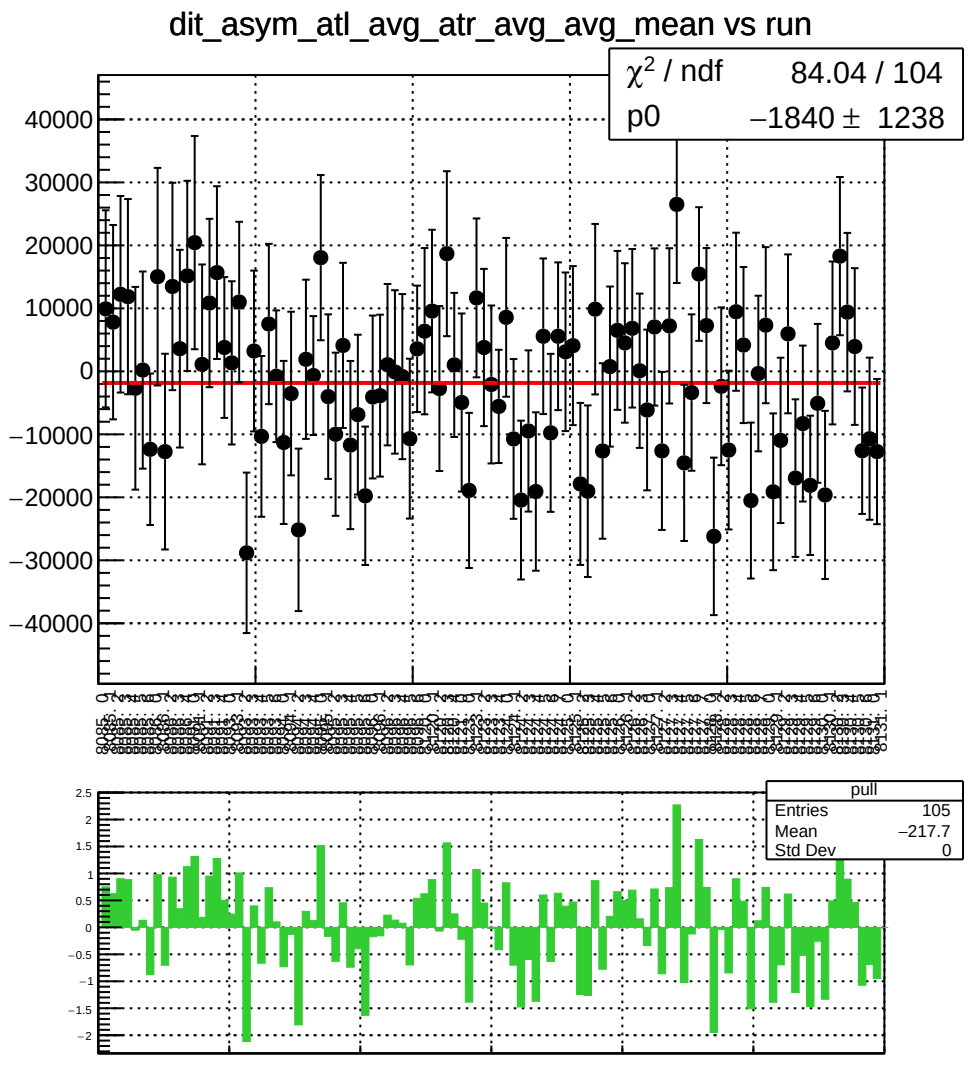

pull1D
Entries 106
Mean 0.008672
Std Dev 0.9042
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

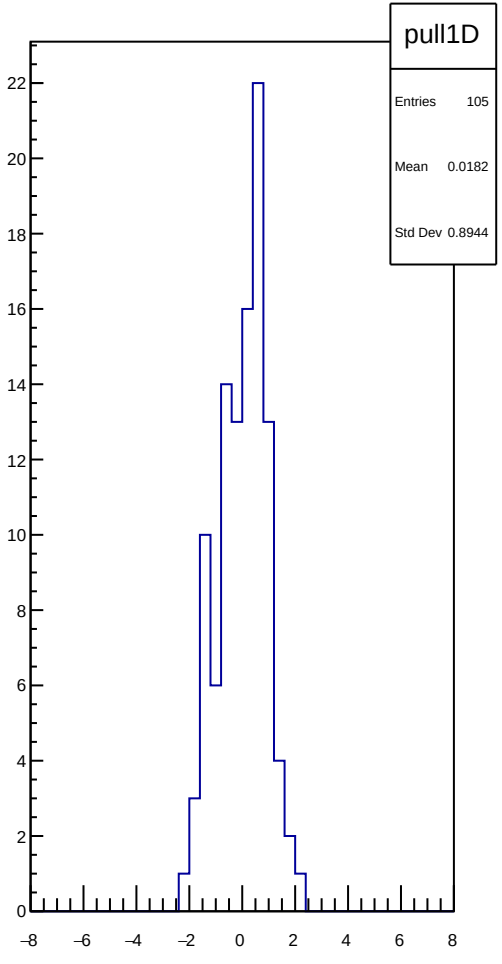

eigen_cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 1297 / 105
p0 1206 ± 0.848
1350
1300
1250
1200
1150

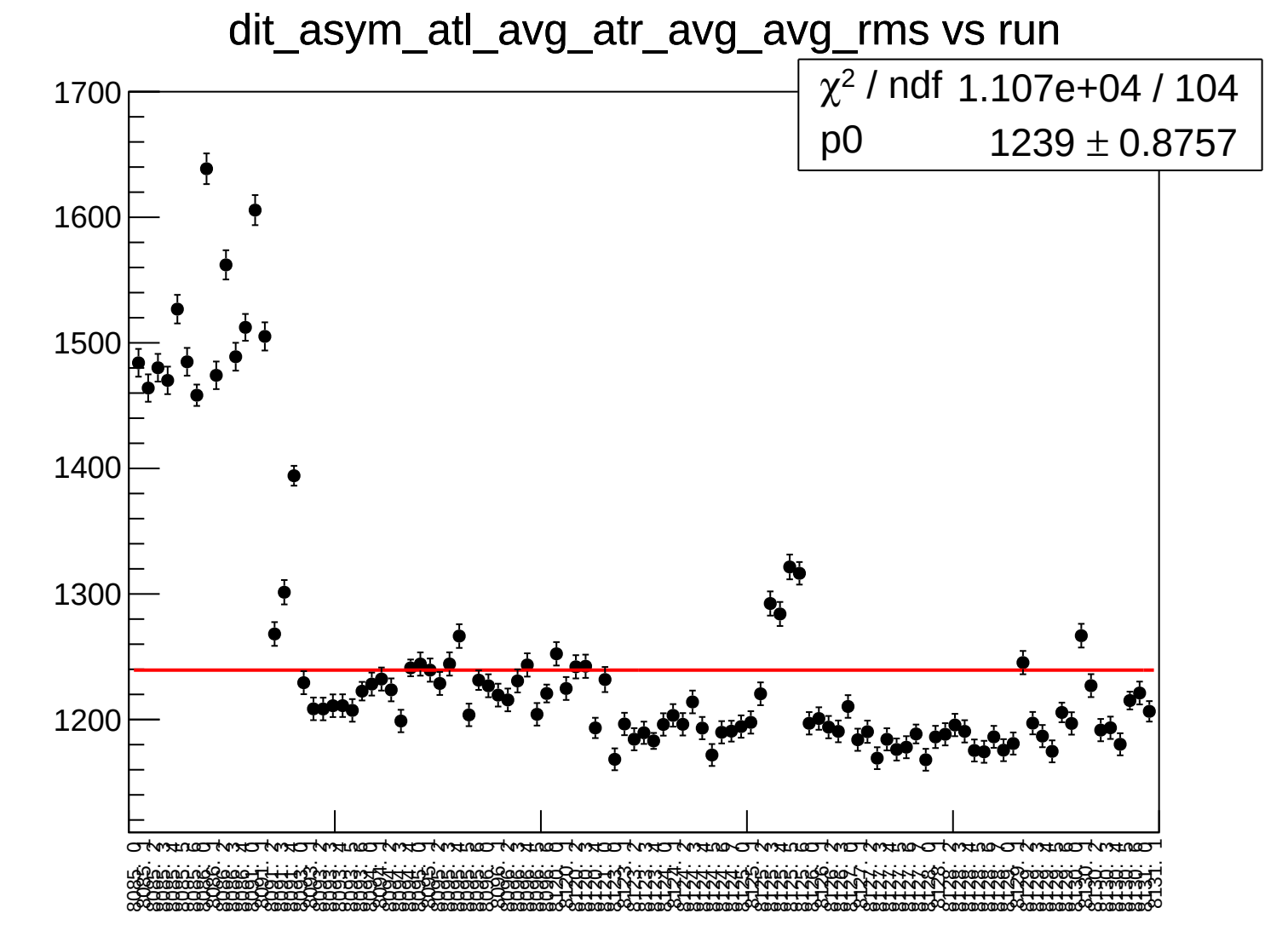

asym_atl_avg_atr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 90.87 / 105
p0 7609 ± 4465
pull
Entries 106
Mean −228.8
Std Dev 0

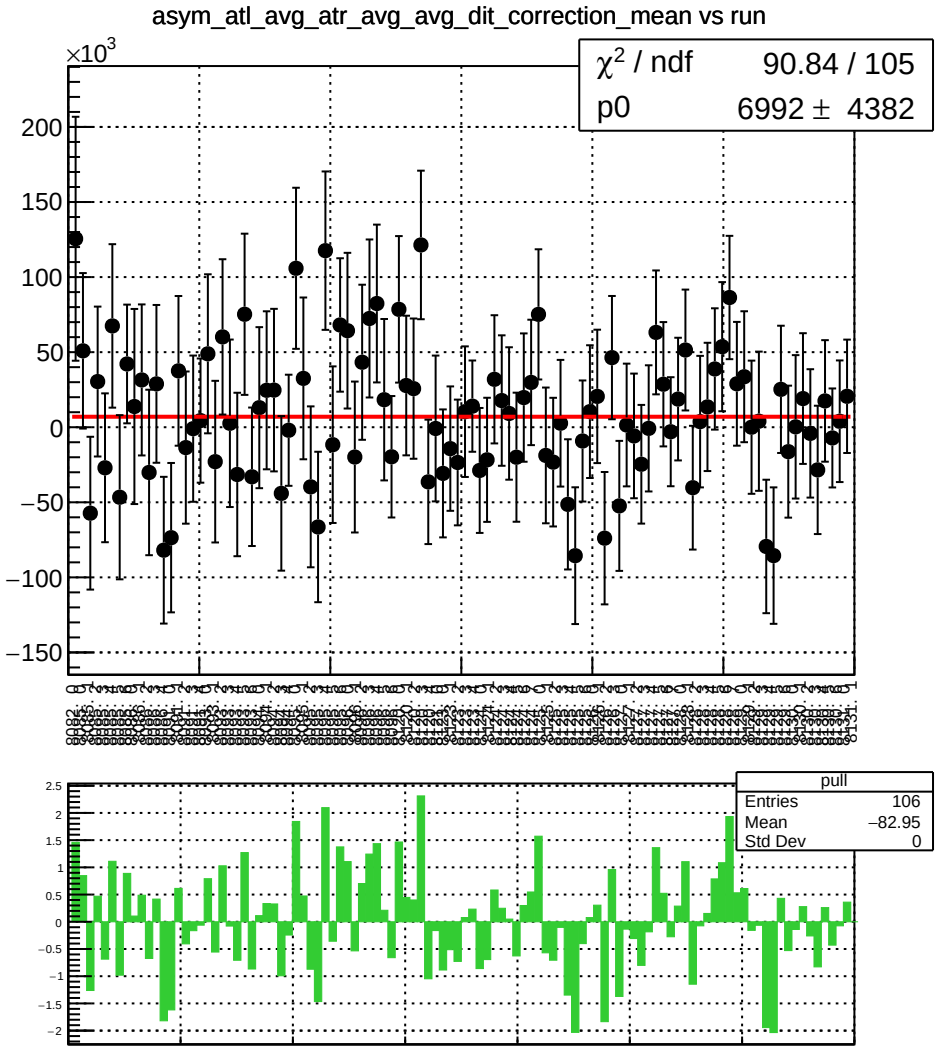

pull1D
Entries 106
Mean 0.008781
Std Dev 0.9258

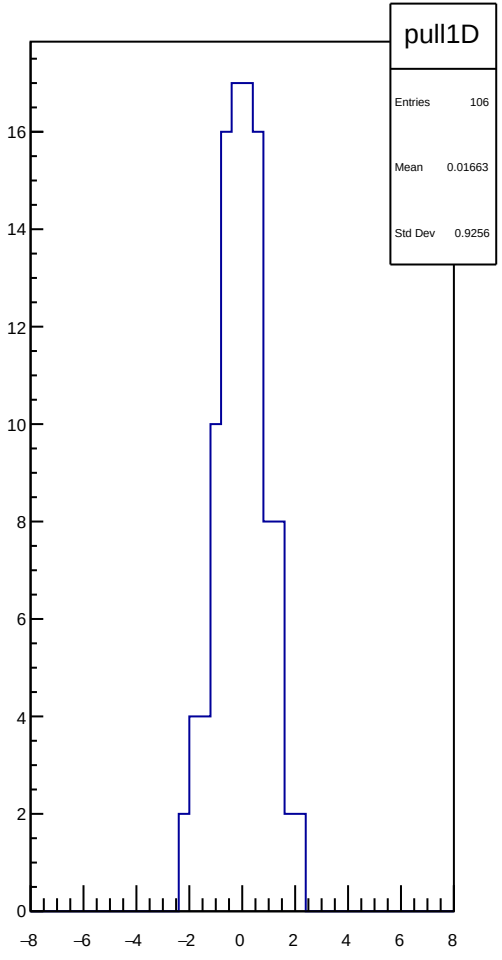

asym_atl_avg_atr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.759e+04 / 105
p0 4449 ± 3.157
7500
7000
6500
6000
5500
5000
4500
4000
3500

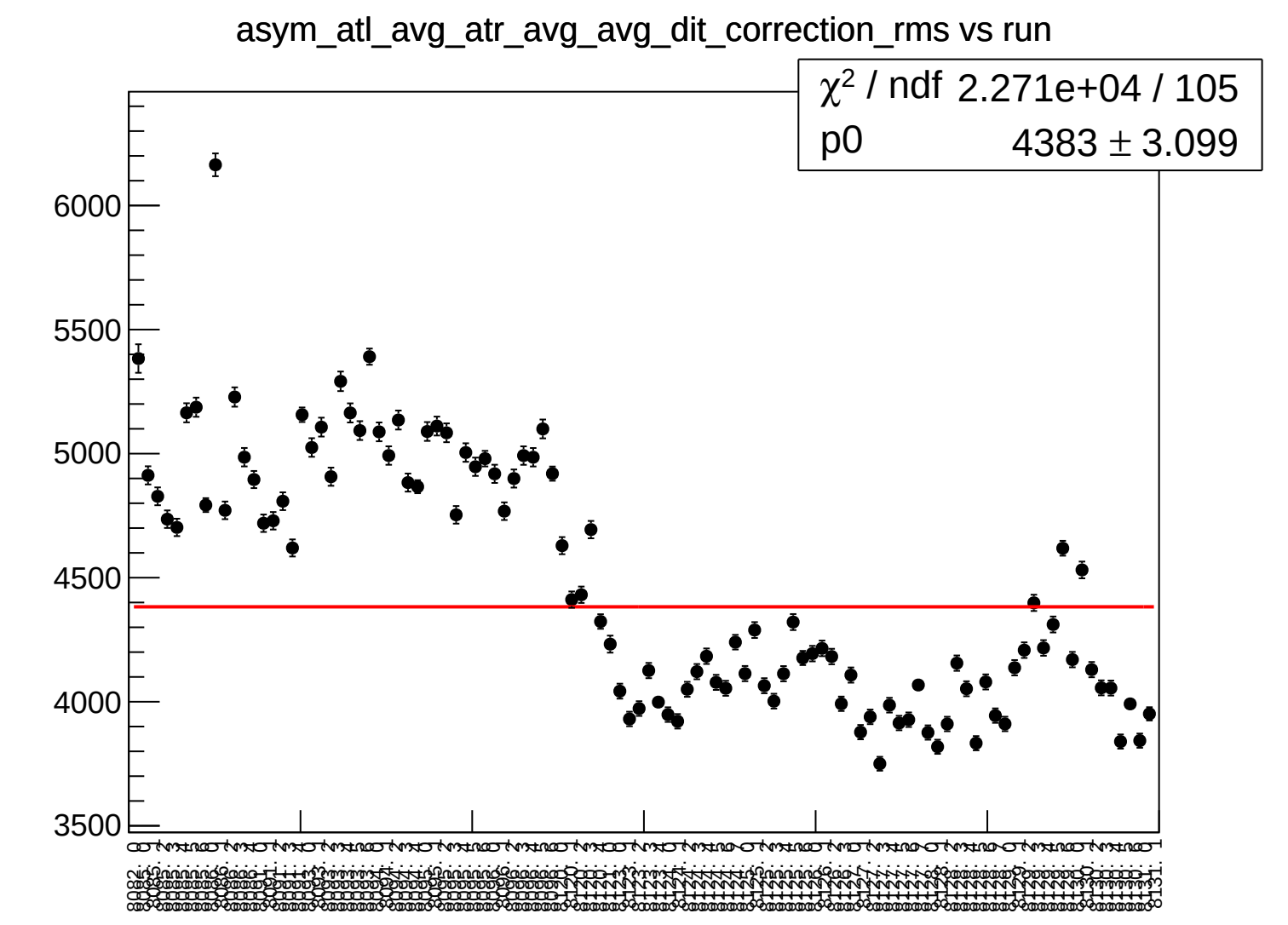

dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 84.04 / 104
p0 −1840 ± 1238
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 105
Mean −217.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

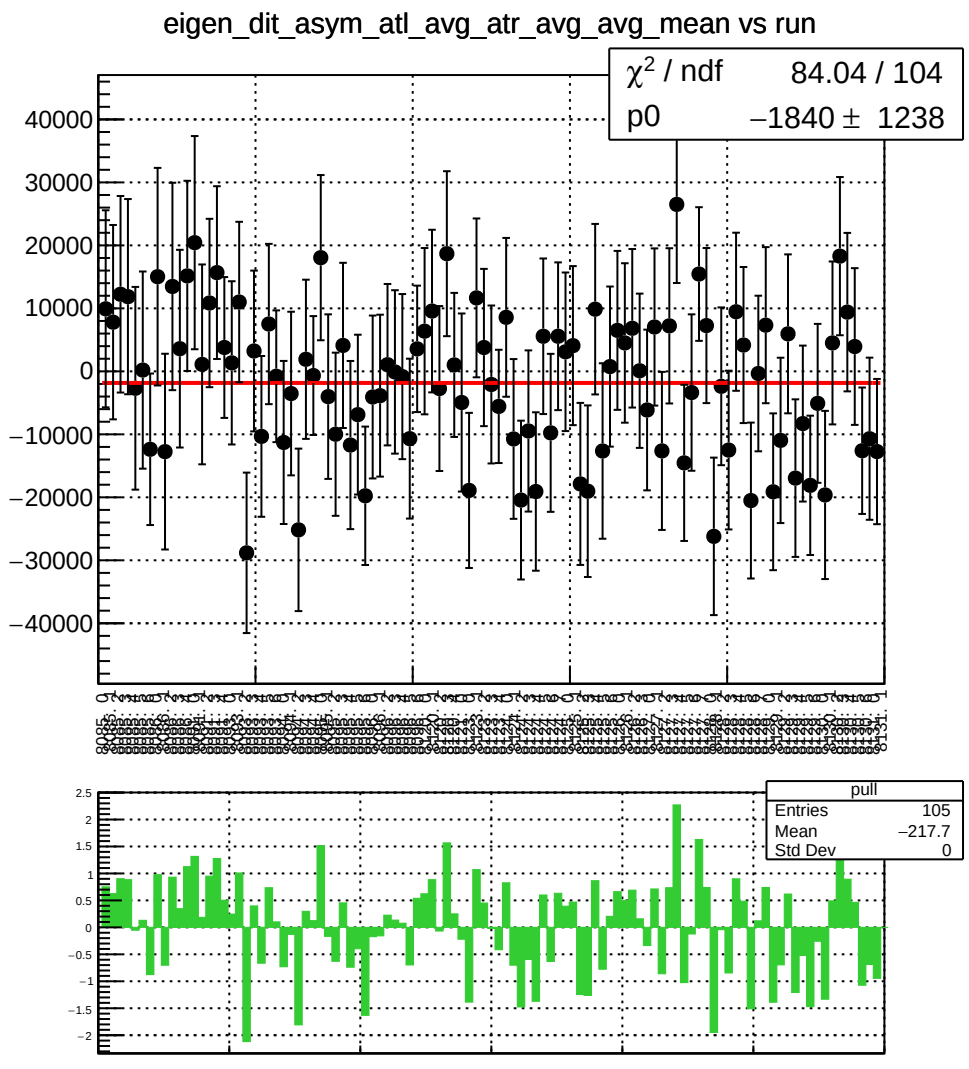

pull1D
Entries 105
Mean 0.0182
Std Dev 0.8944
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

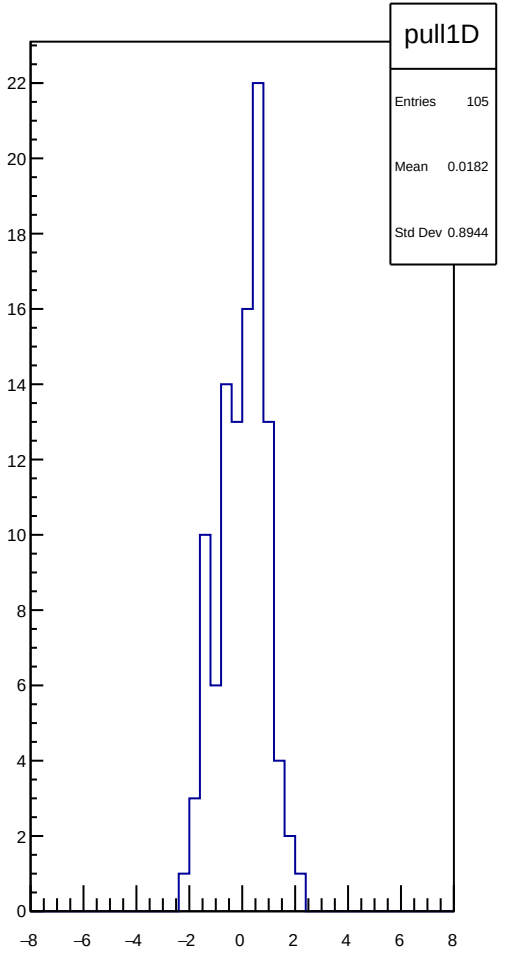

dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 1.107e+04 / 104
p0 1239 ± 0.8757
1700
1600
1500
1400
1300
1200

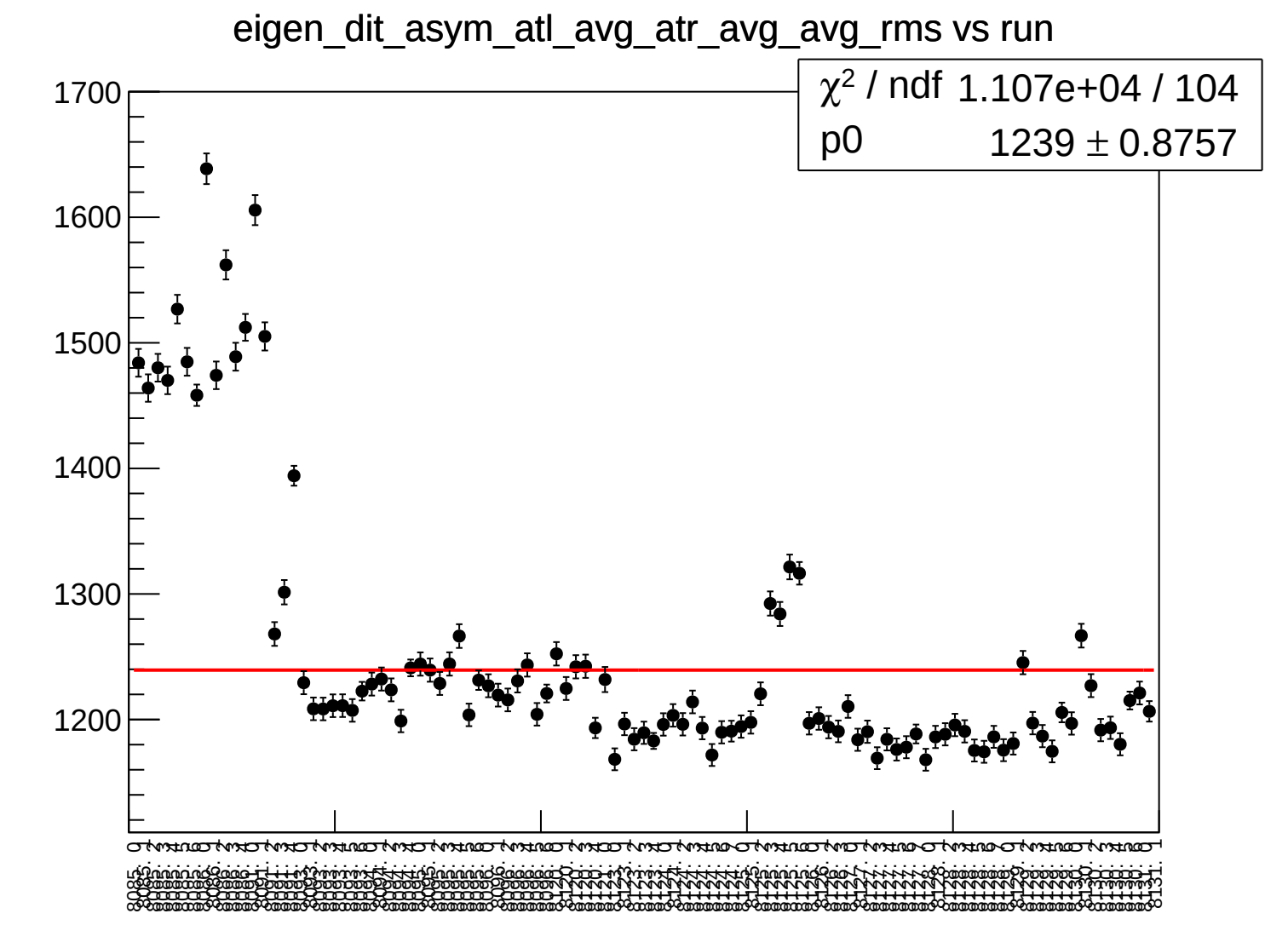

asym_atl_avg_atr_avg_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 90.84 / 105
p0 6992 ± 4382
200
150
100
50
0
−50
−100
−150
pull
Entries 106
Mean −82.95
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

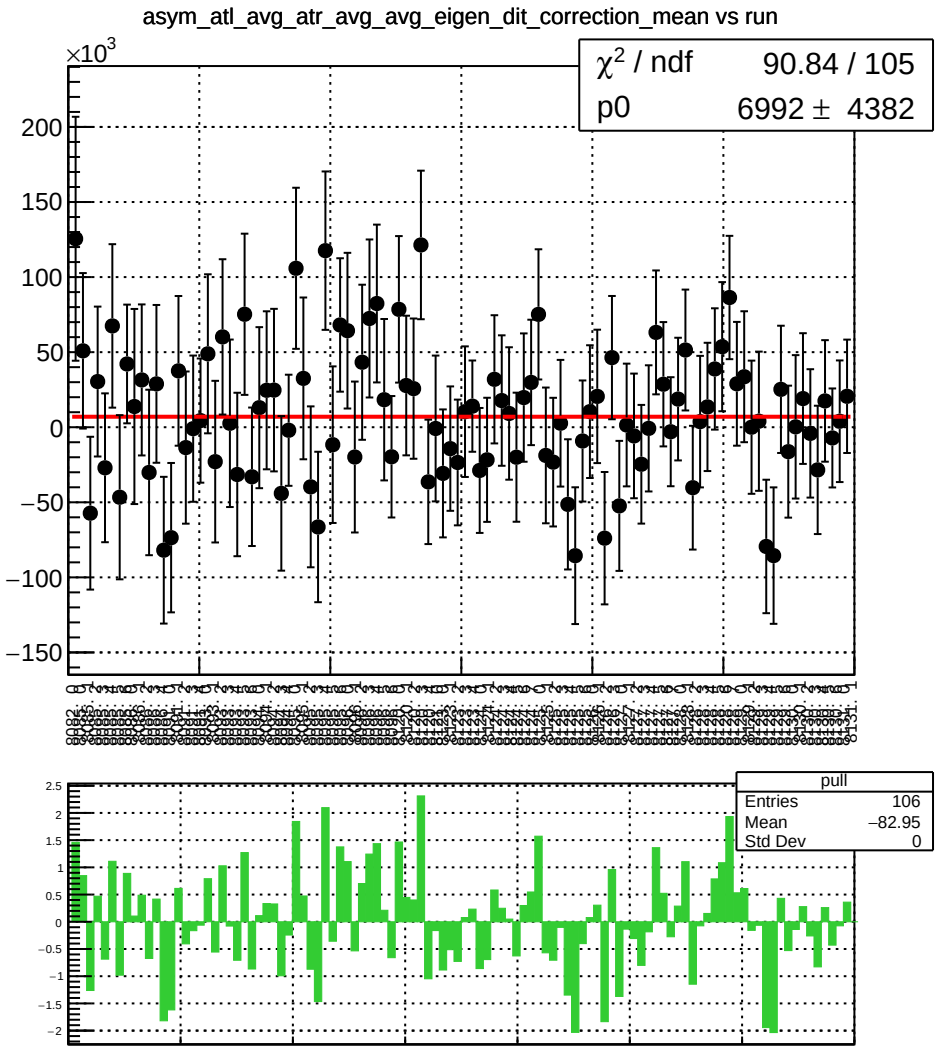

pull1D
Entries 106
Mean 0.01663
Std Dev 0.9256
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

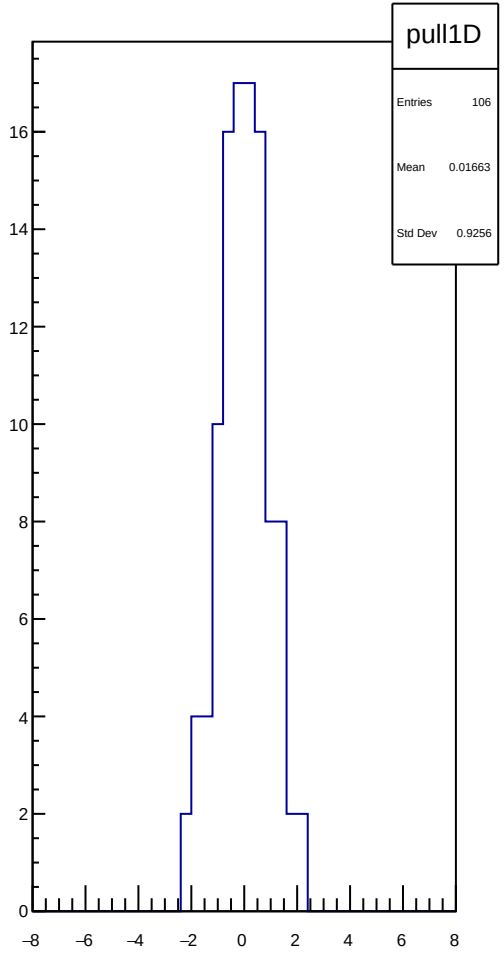

asym_atl_avg_atr_avg_avg_dit_correction_rms vs run
χ² / ndf 2.271e+04 / 105
p0 4383 ± 3.099
6000
5500
5000
4500
4000
3500

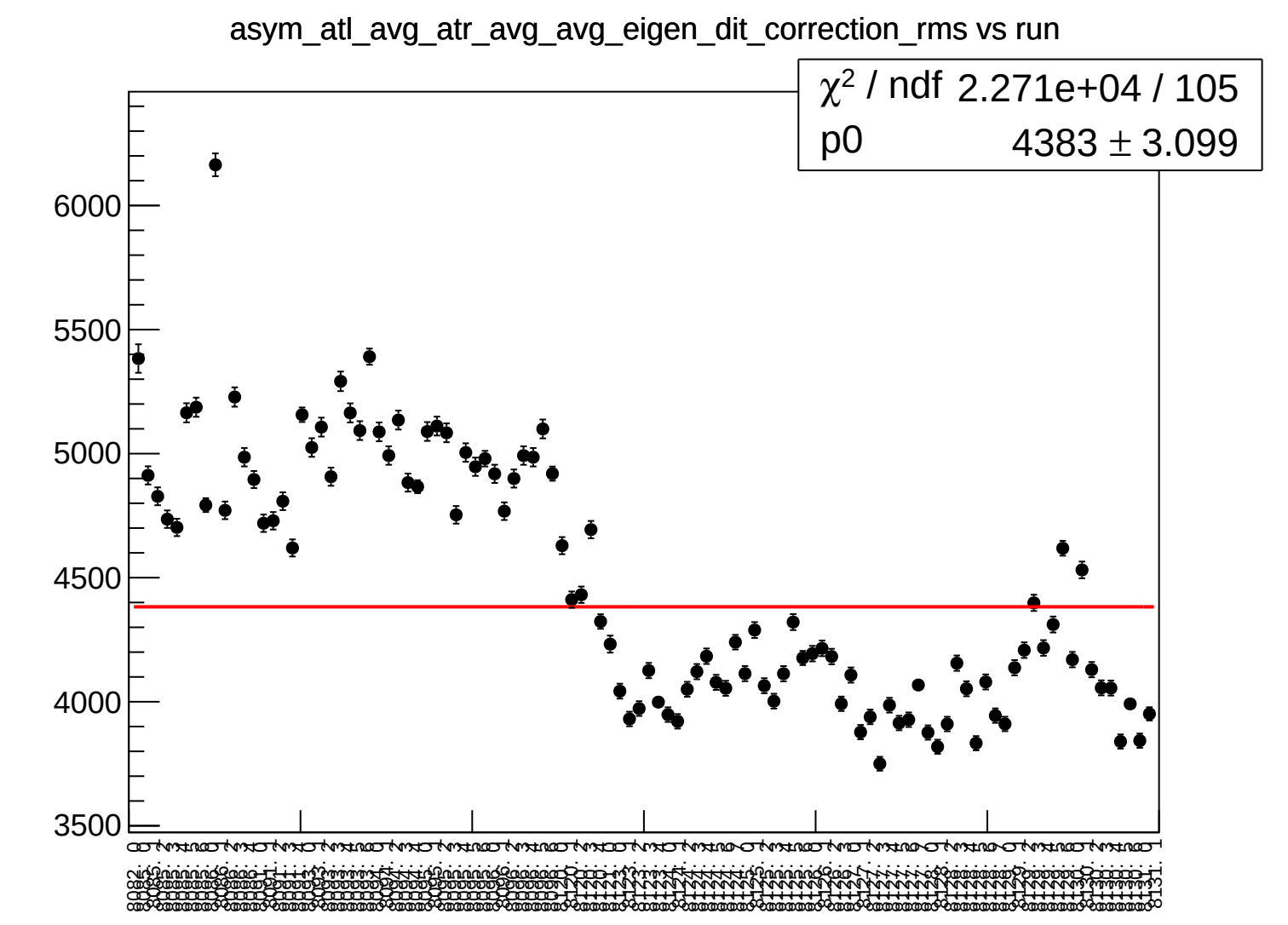

eigen_dit_asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 84.04 / 104
p0 −1840 ± 1238
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 105
Mean −217.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

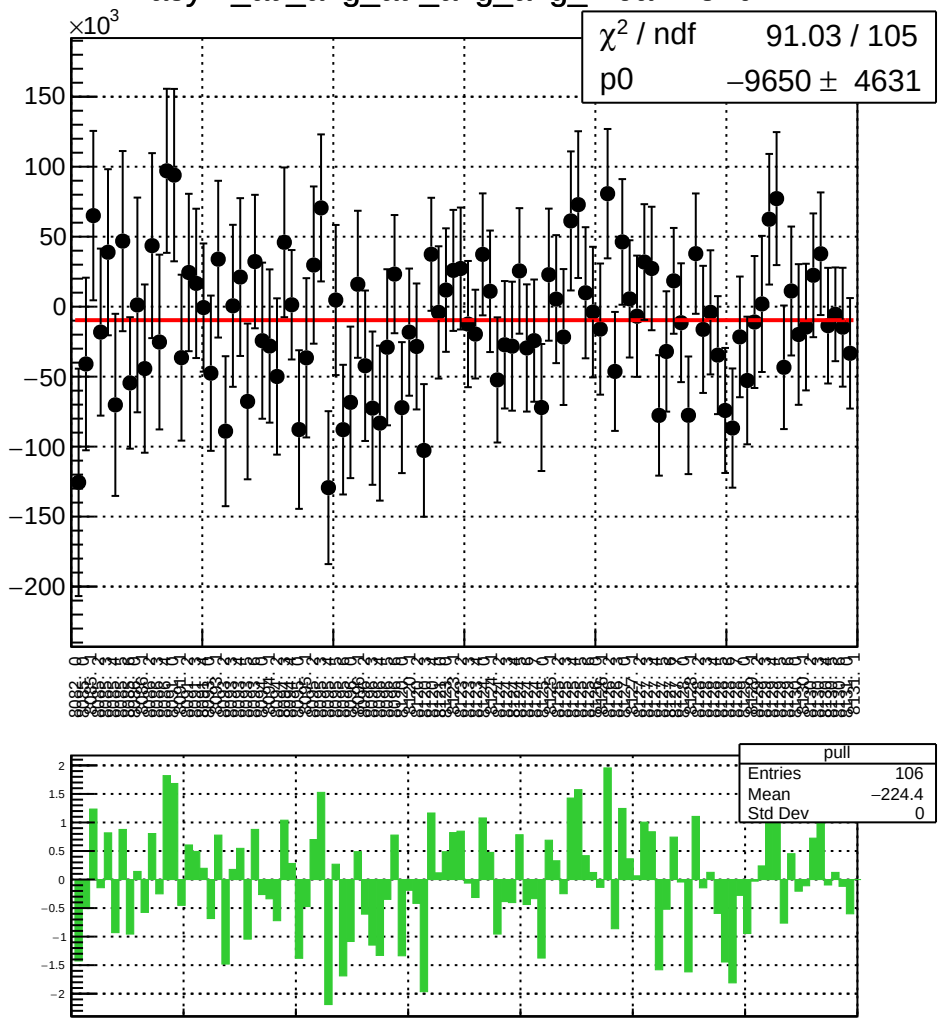

pull1D
Entries 105
Mean 0.0182
Std Dev 0.8944
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

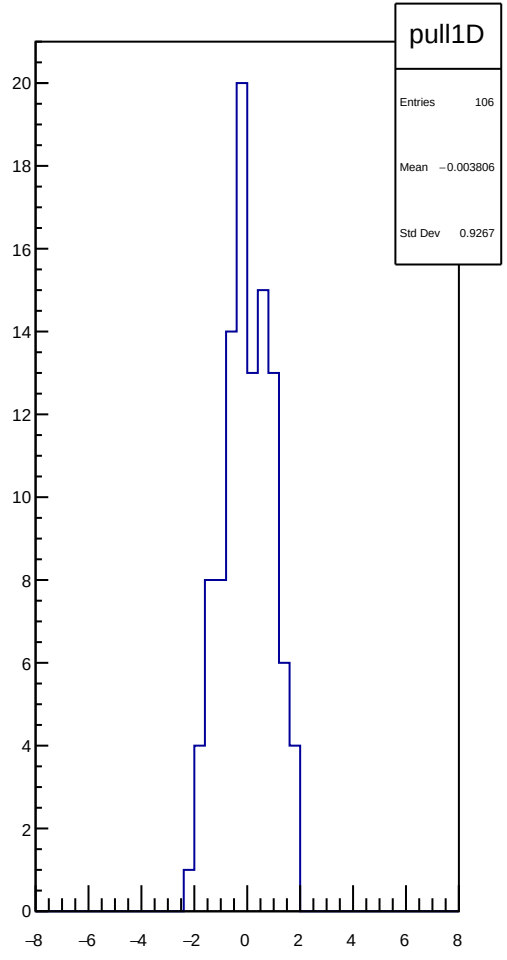

eigen_dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 1.107e+04 / 104
p0 1239 ± 0.8757
1700
1600
1500
1400
1300
1200

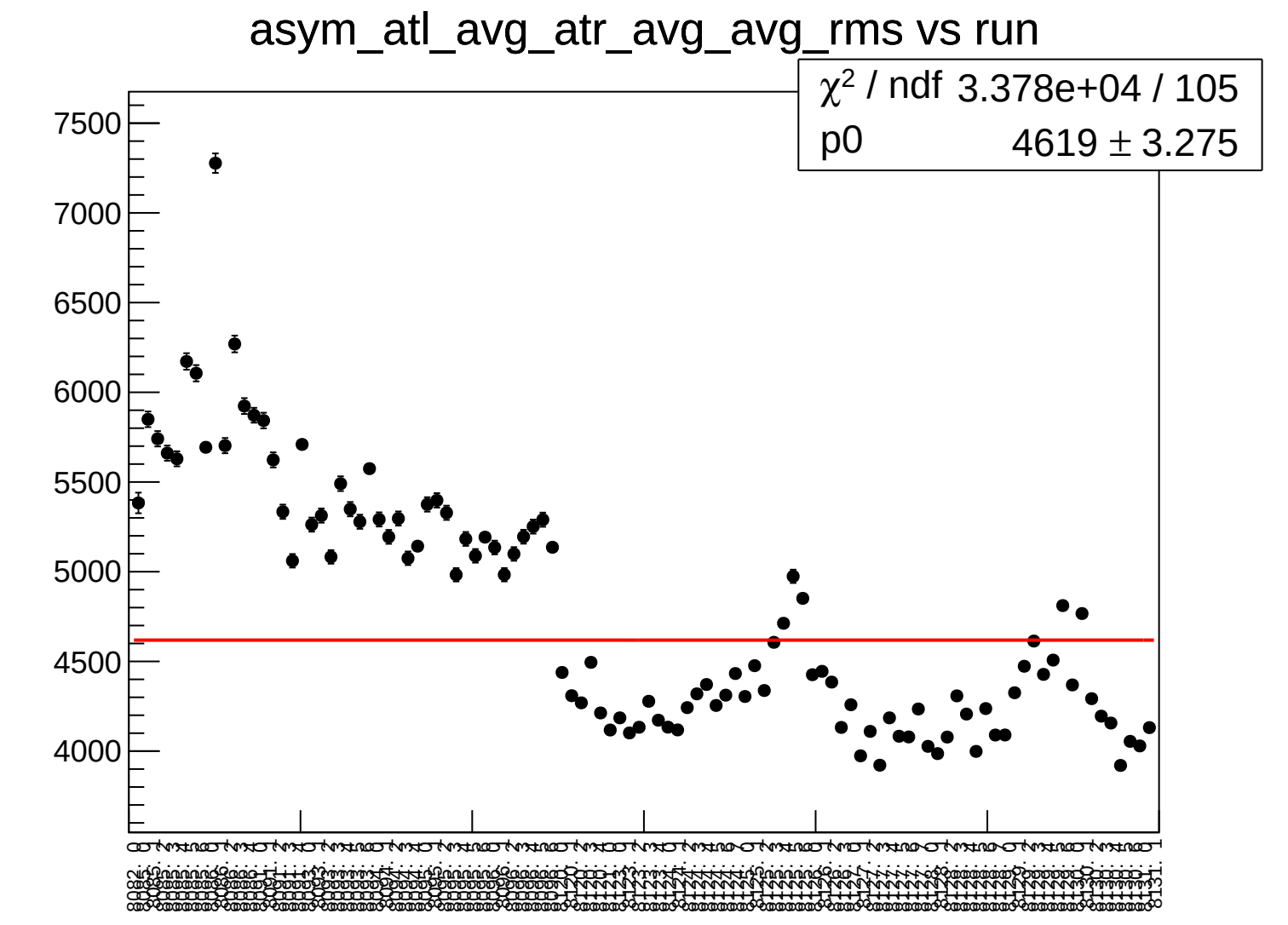

asym_atl_avg_atr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 90.84 / 105
p0 6992 ± 4382
200
150
100
50
0
−50
−100
−150
pull
Entries 106
Mean −82.95
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

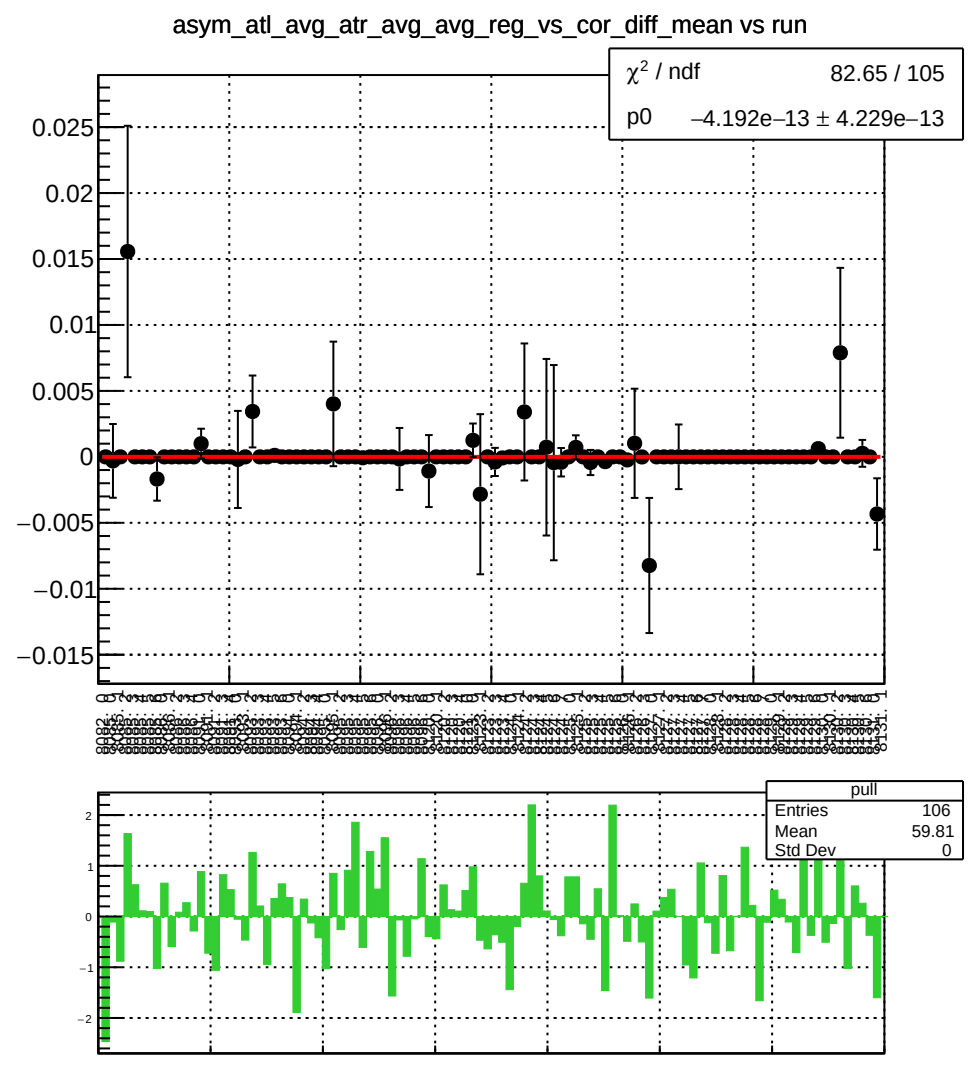

pull1D
Entries 106
Mean 0.01663
Std Dev 0.9256
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

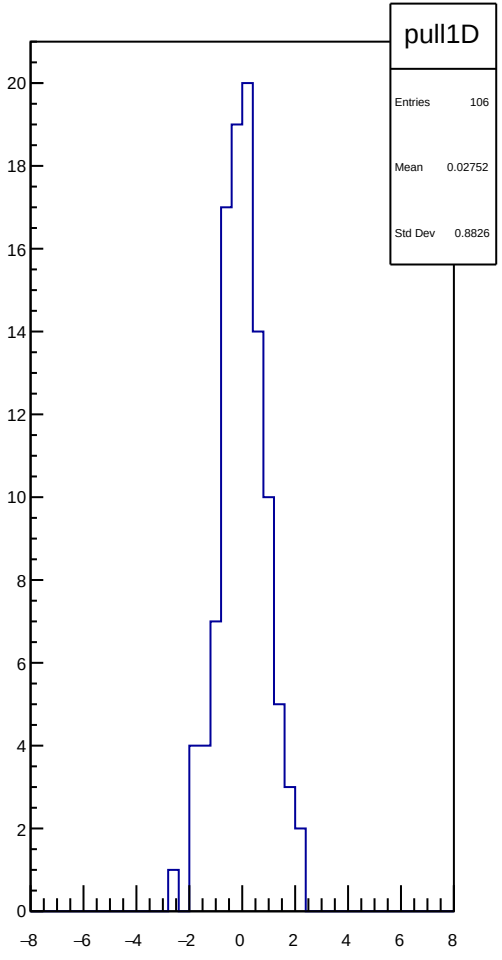

asym_atl_avg_atr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.271e+04 / 105
p0 4383 ± 3.099
6000
5500
5000
4500
4000
3500

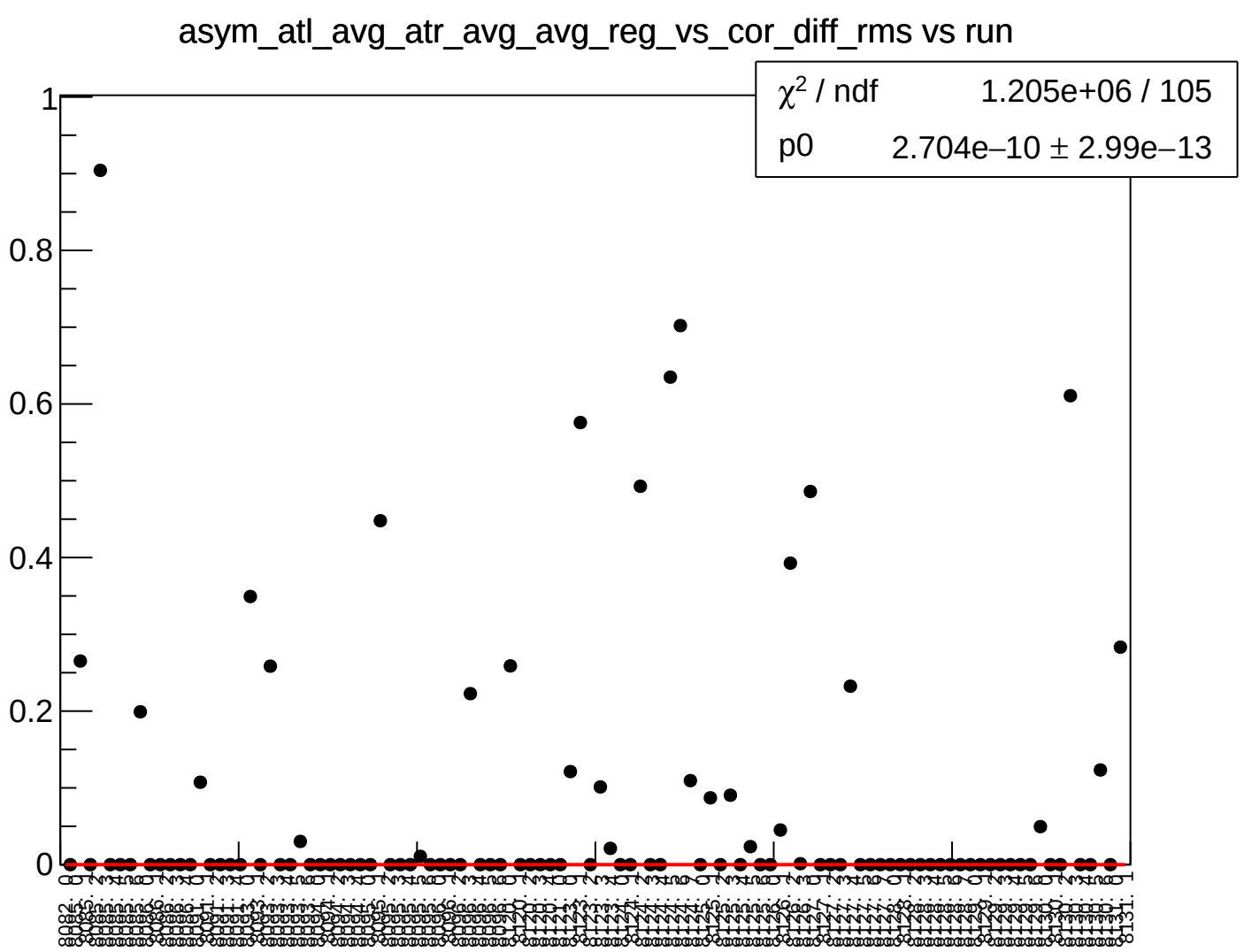

asym_atl_avg_atr_avg_avg_mean vs run
$\chi^2$ / ndf 91.03 / 105
p0 −9650 ± 4631
×10^3
150
100
50
0
−50
−100
−150
−200
pull
Entries 106
Mean −224.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

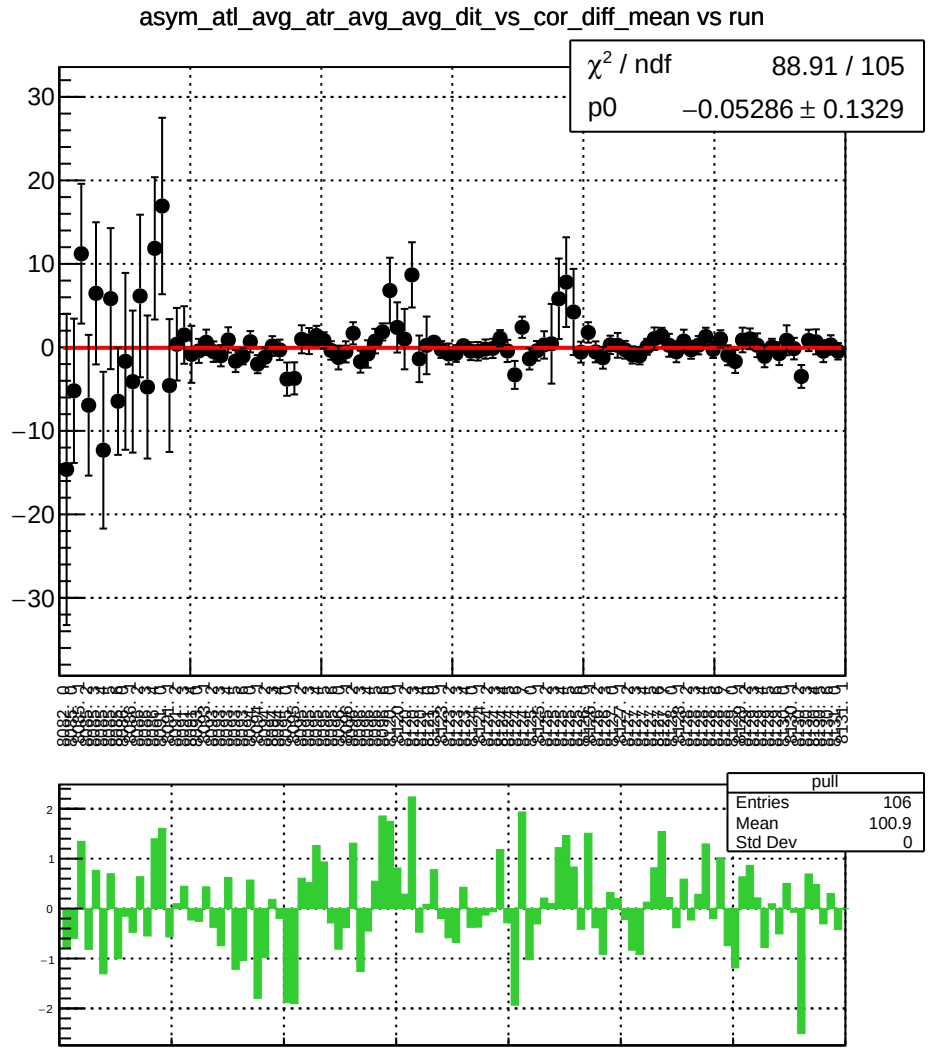

pull1D
Entries 106
Mean −0.003806
Std Dev 0.9267
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

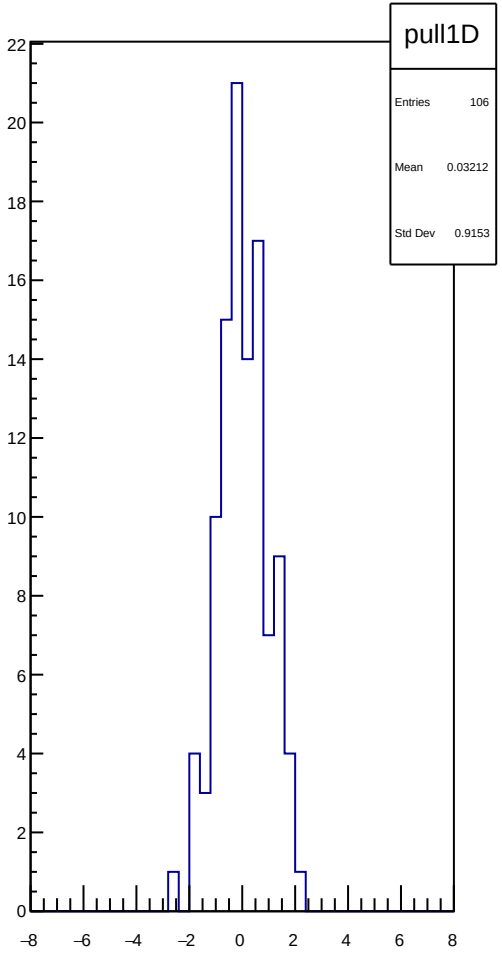

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 3.378e+04 / 105
p0 4619 ± 3.275
7500
7000
6500
6000
5500
5000
4500
4000

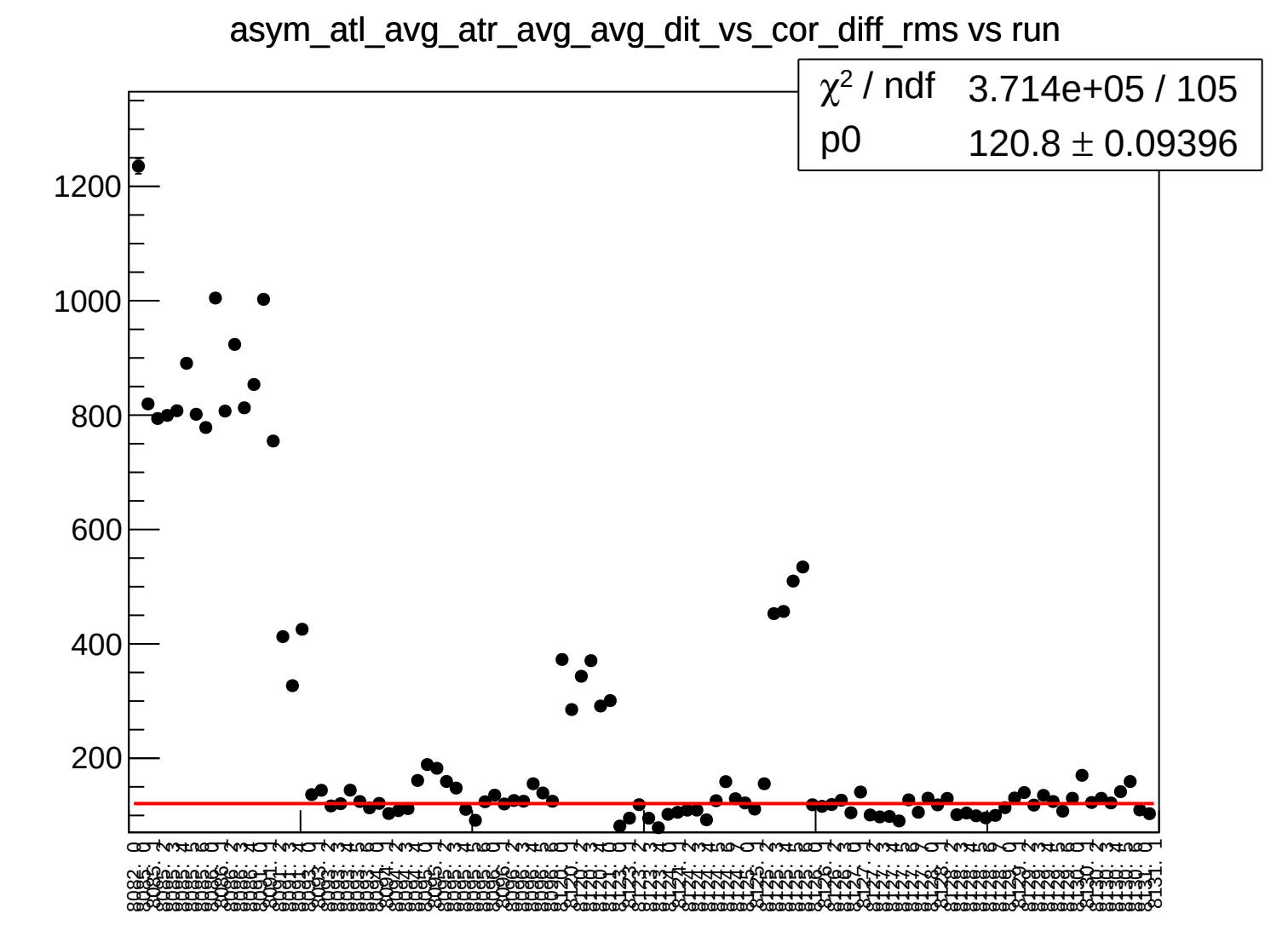

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 82.65 / 105
p0 −4.192e−13 ± 4.229e−13
pull
Entries 106
Mean 59.81
Std Dev 0

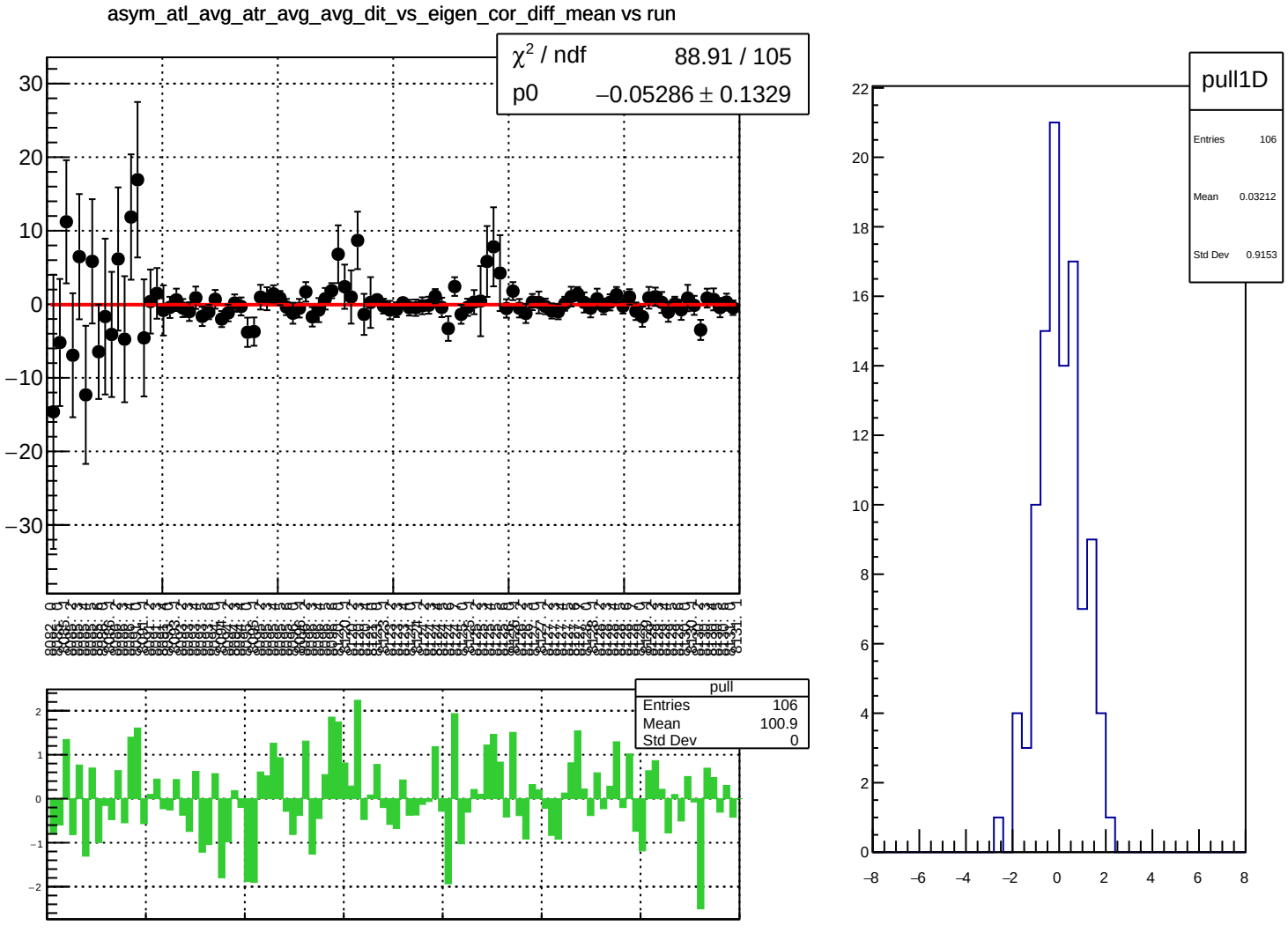

pull1D
Entries 106
Mean 0.02752
Std Dev 0.8826

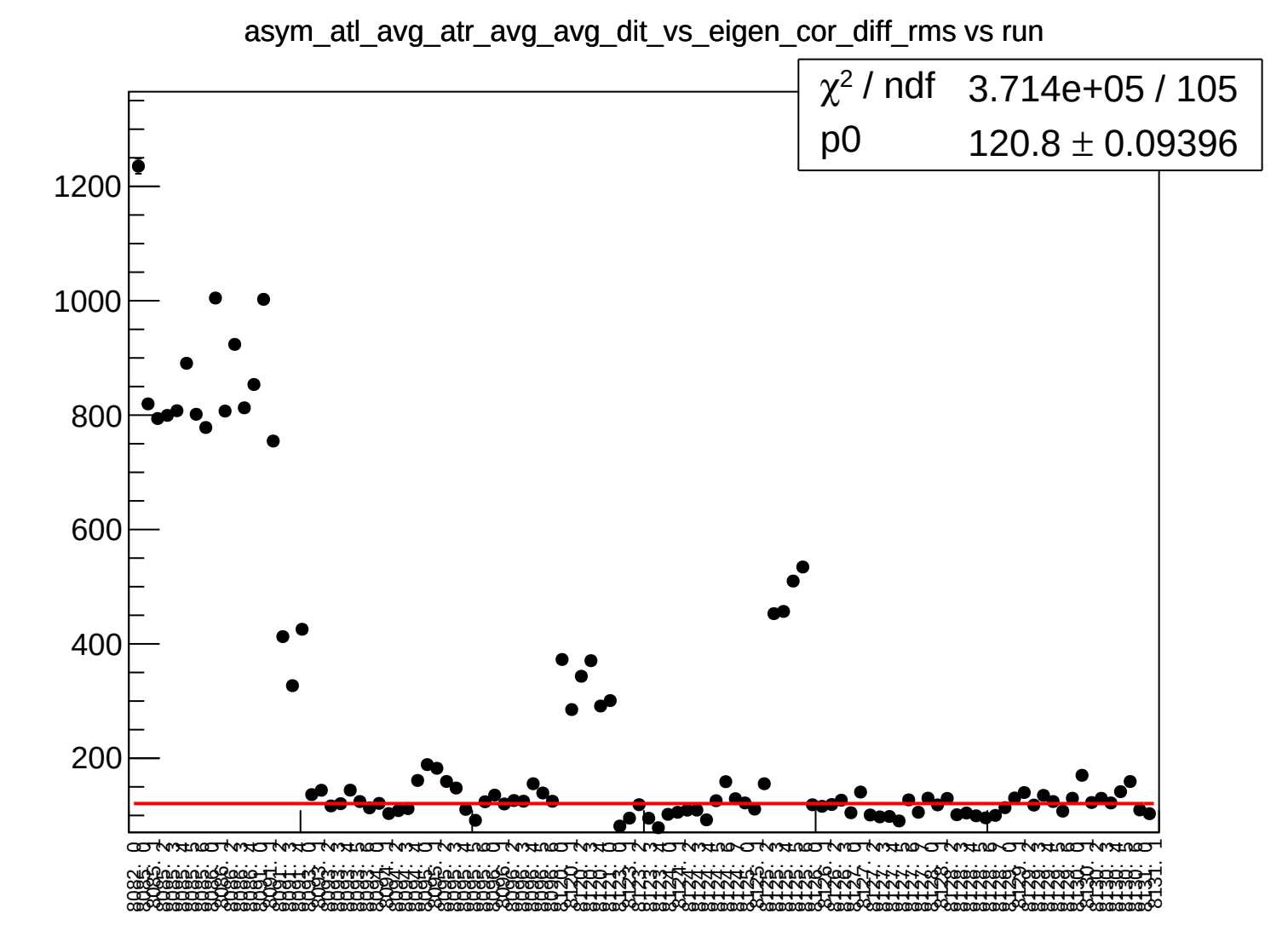

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.205e+06 / 105
p0 2.704e−10 ± 2.99e−13
1
0.8
0.6
0.4
0.2
0

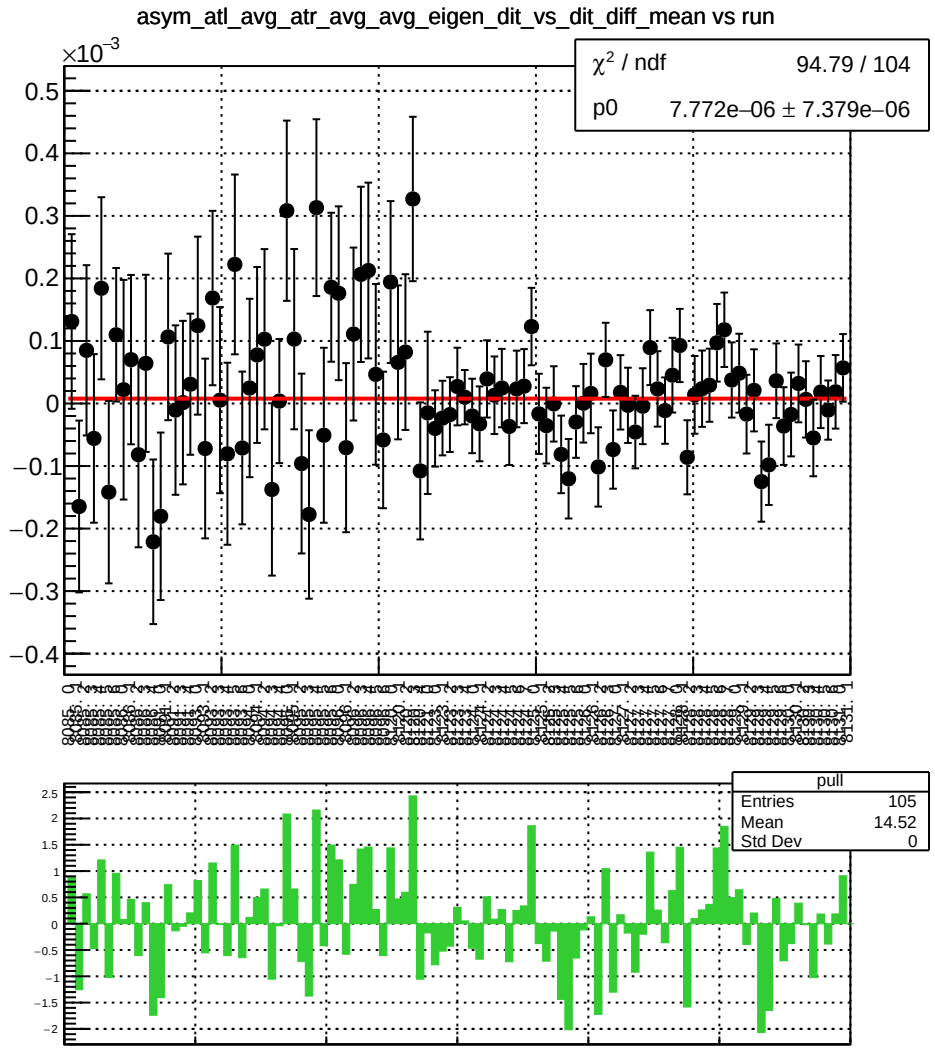

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 88.91 / 105
p0 −0.05286 ± 0.1329
pull
Entries 106
Mean 100.9
Std Dev 0

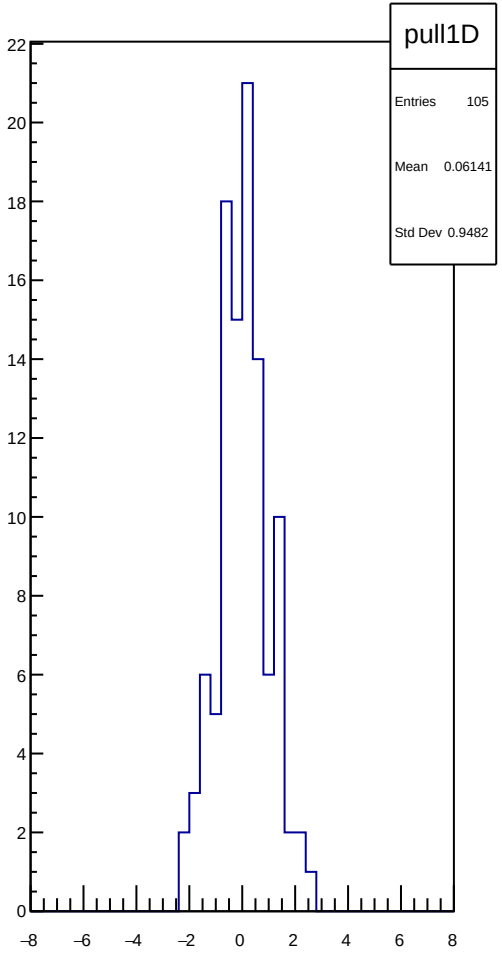

pull1D
Entries 106
Mean 0.03212
Std Dev 0.9153

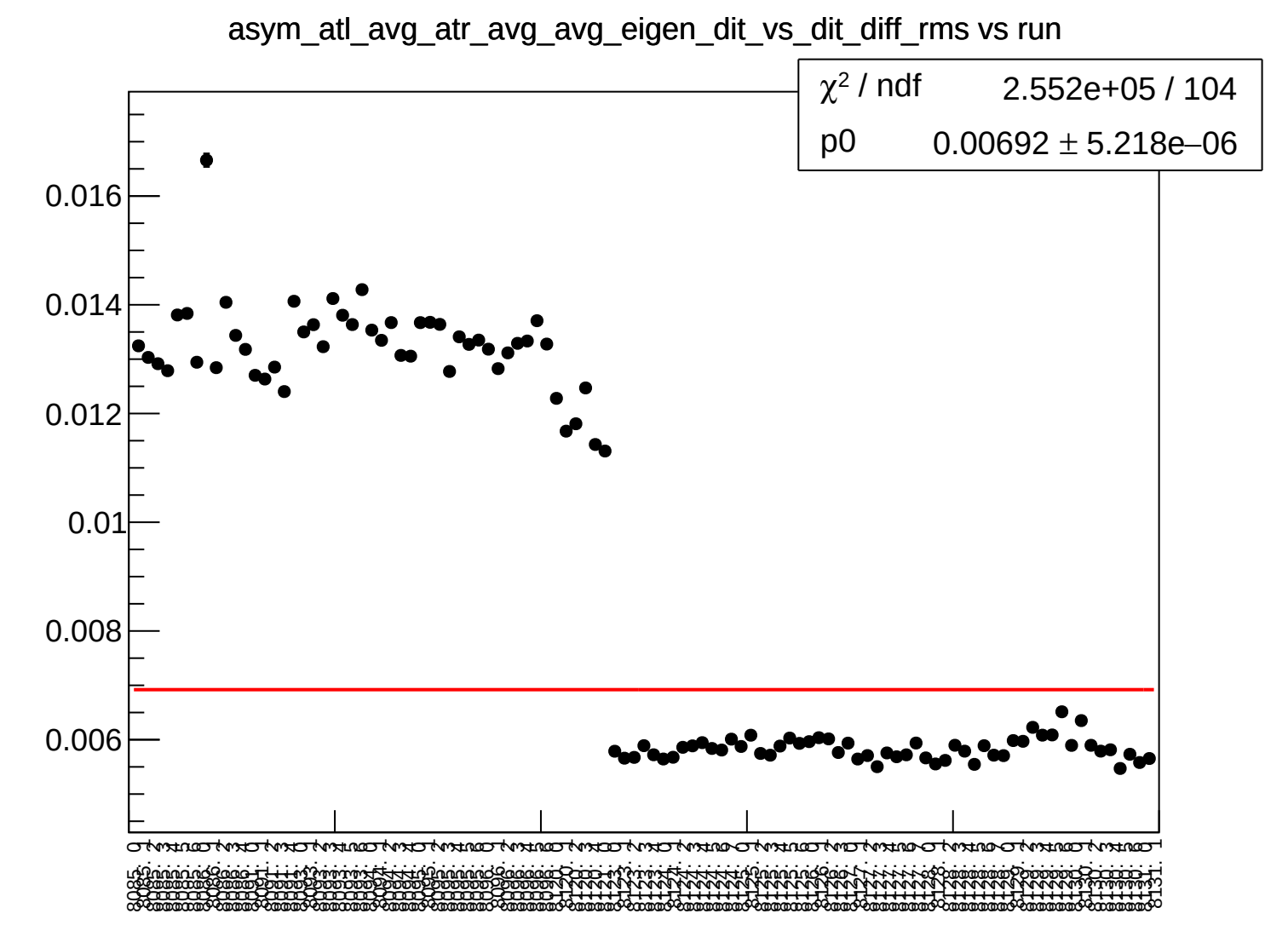

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.714e+05 / 105
p0 120.8 ± 0.09396
1200
1000
800
600
400
200

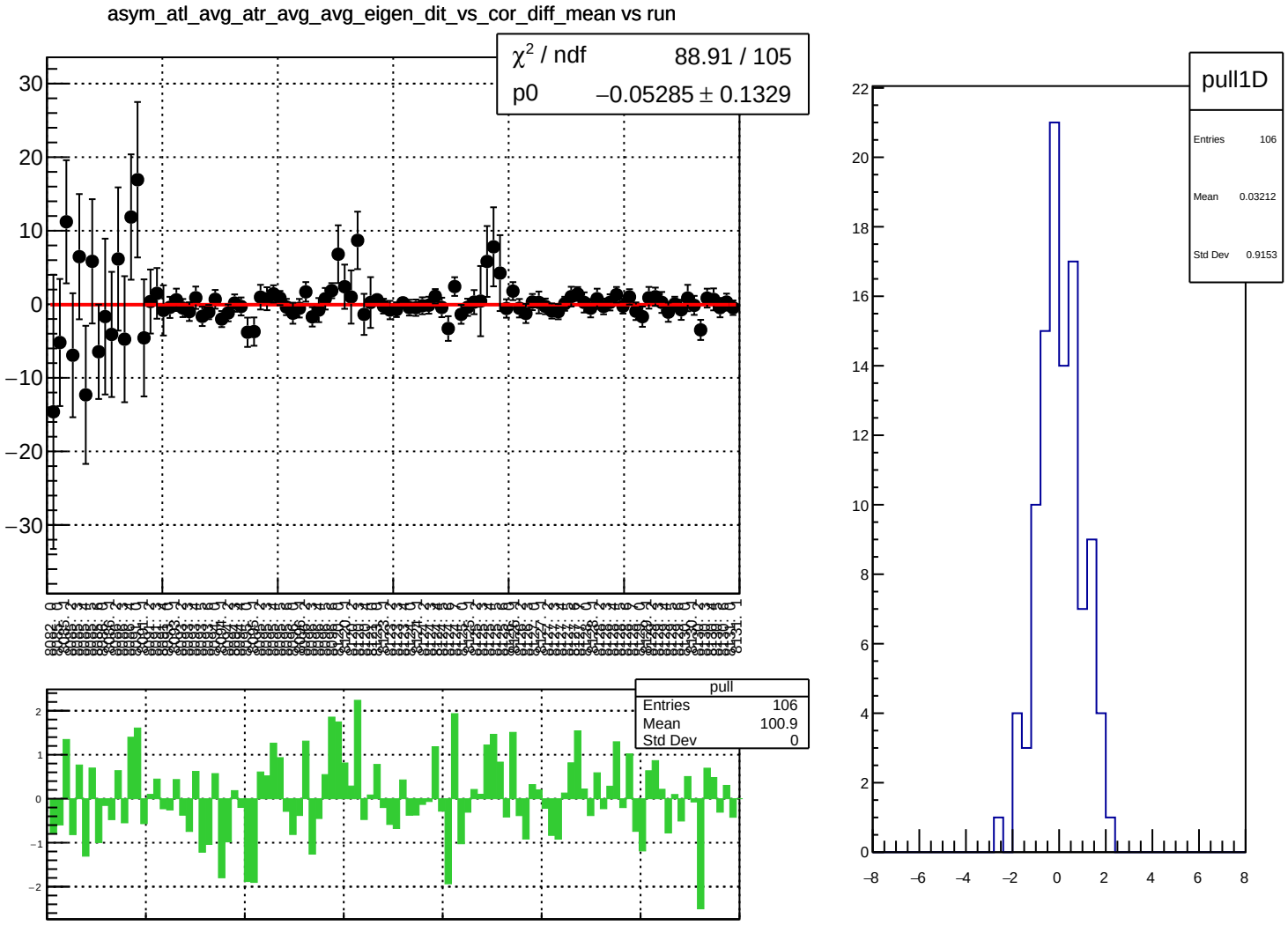

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.91 / 105
p0 −0.05286 ± 0.1329
pull
Entries 106
Mean 100.9
Std Dev 0
pull1D
Entries 106
Mean 0.03212
Std Dev 0.9153

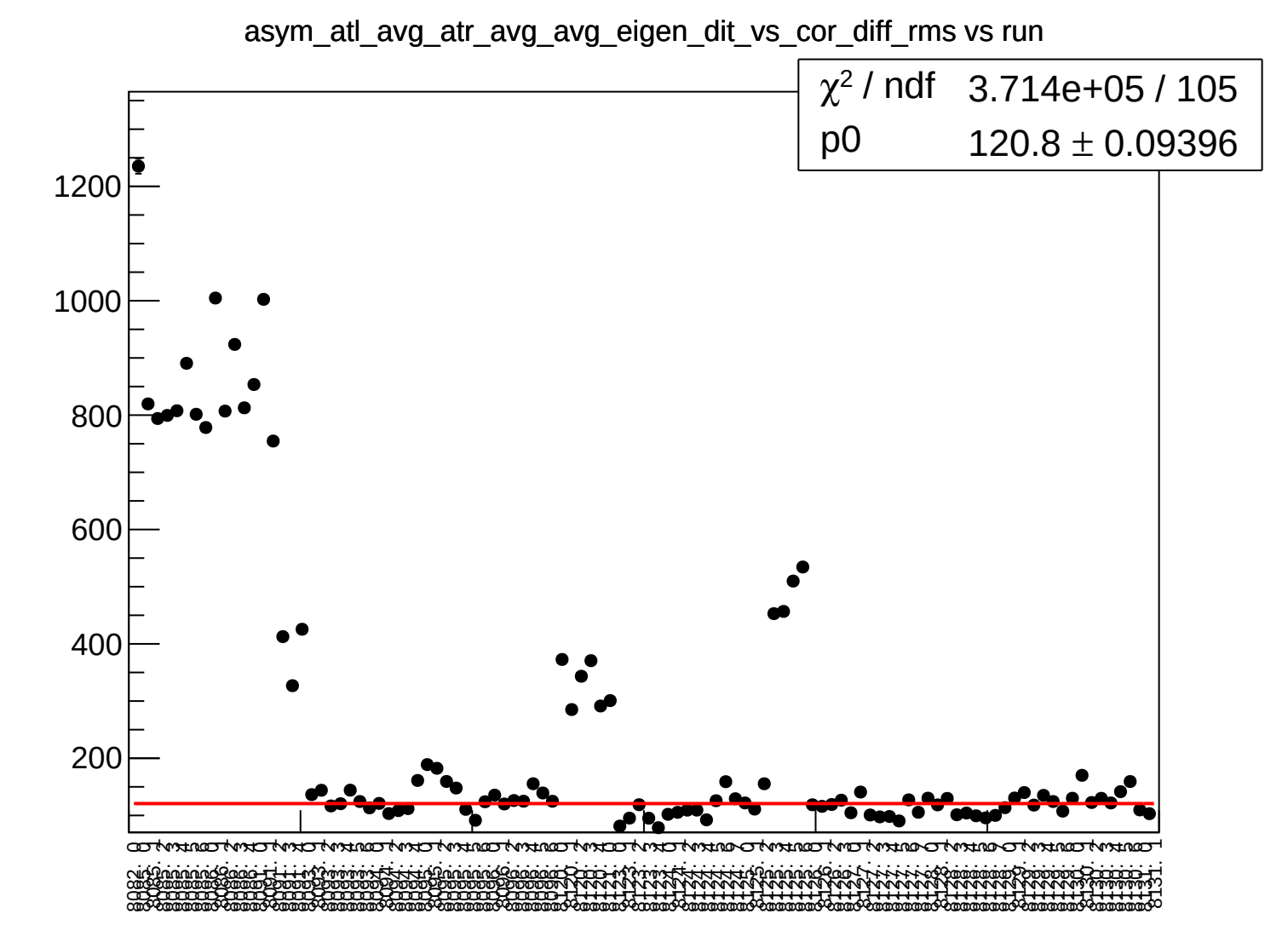

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.714e+05 / 105
p0 120.8 ± 0.09396
1200
1000
800
600
400
200

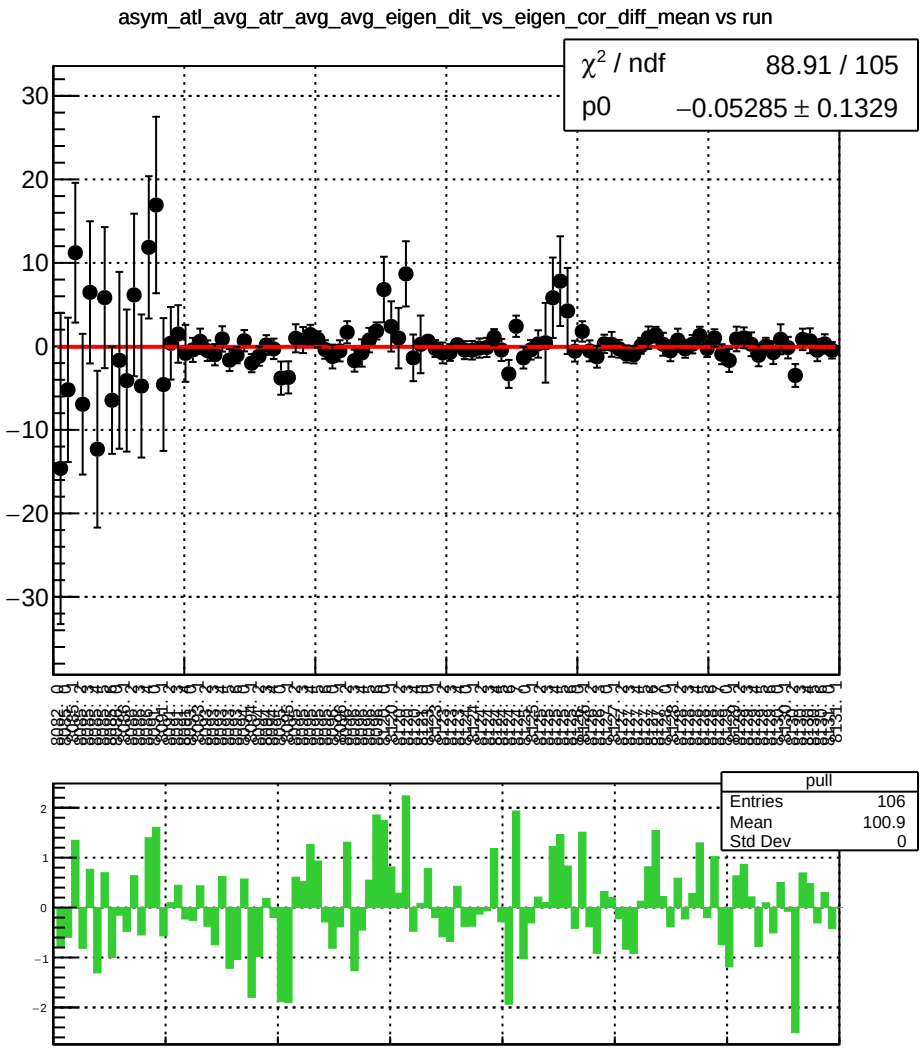

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 94.79 / 104
p0 7.772e−06 ± 7.379e−06
pull
Entries 105
Mean 14.52
Std Dev 0

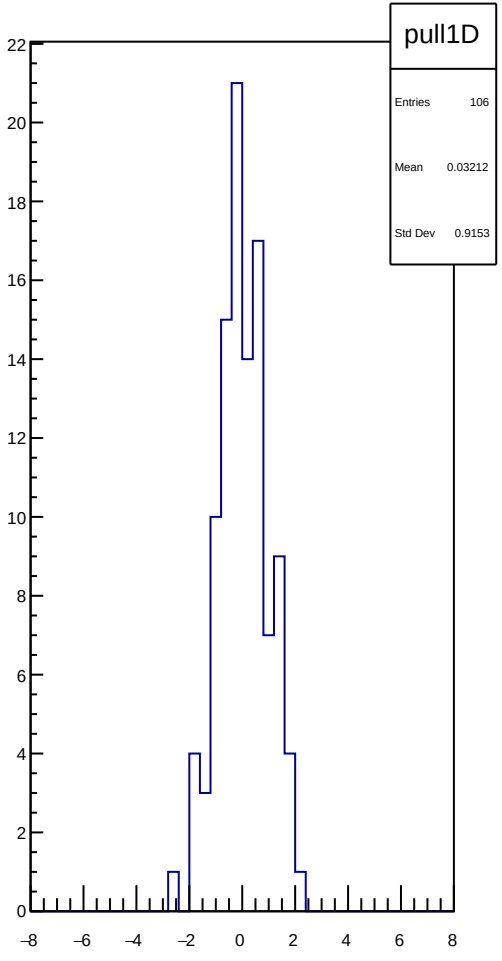

pull1D
Entries 105
Mean 0.06141
Std Dev 0.9482

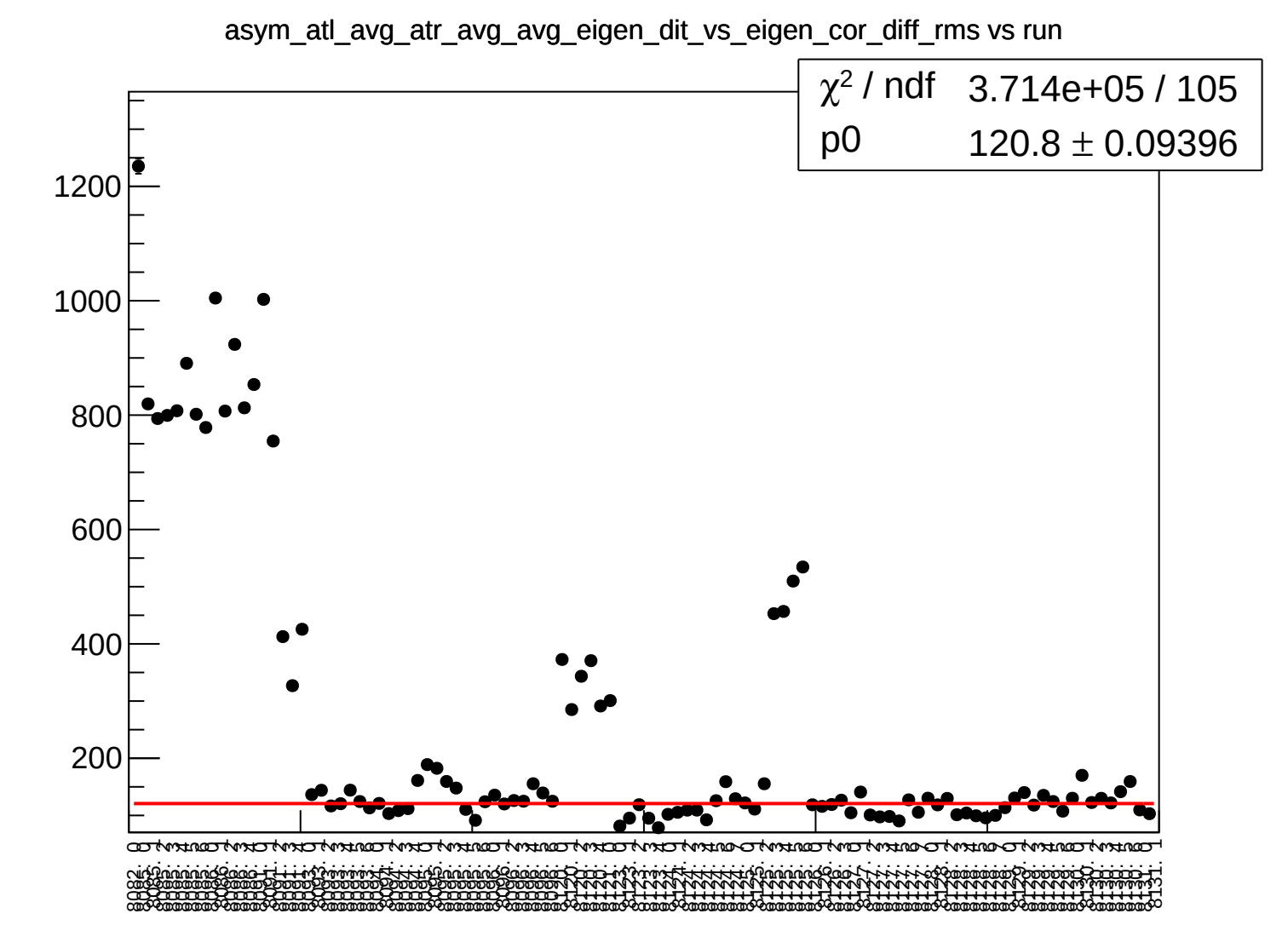

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.552e+05 / 104
p0 0.00692 ± 5.218e–06
0.016
0.014
0.012
0.01
0.008
0.006

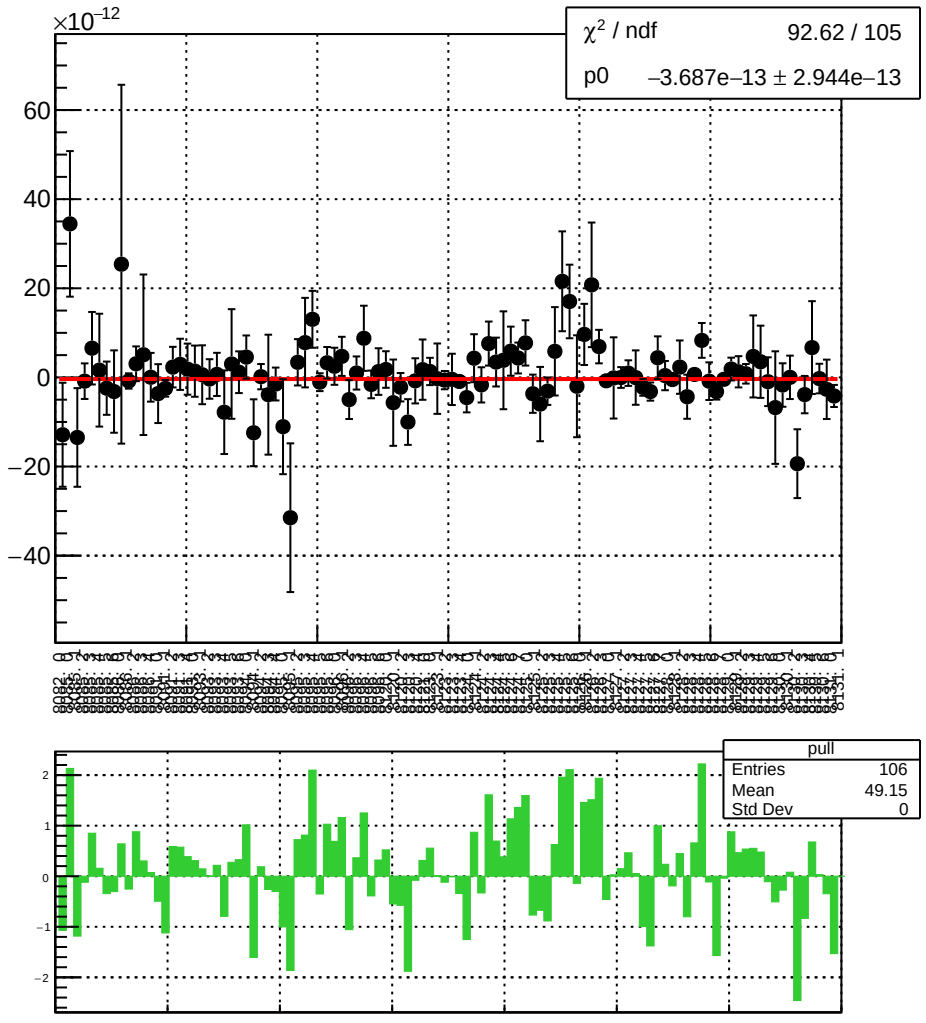

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.91 / 105
p0 −0.05285 ± 0.1329
pull
Entries 106
Mean 100.9
Std Dev 0
pull1D
Entries 106
Mean 0.03212
Std Dev 0.9153

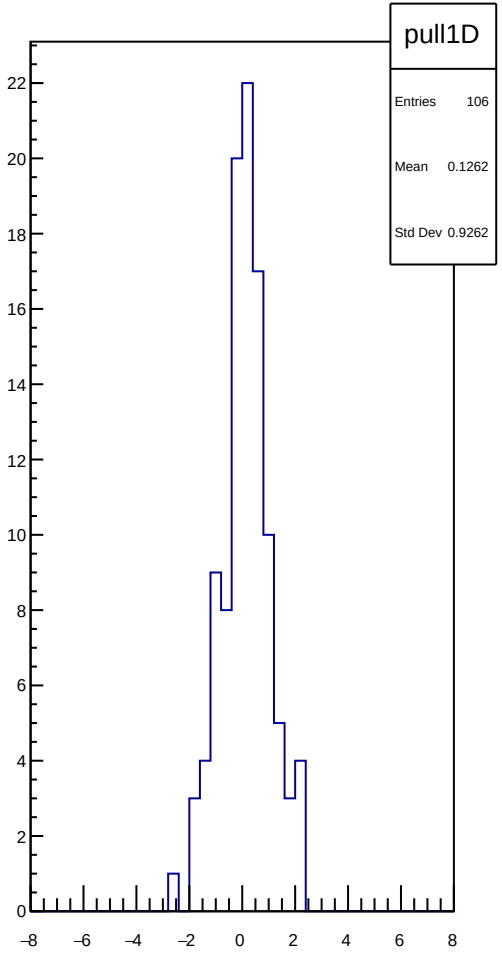

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.714e+05 / 105
p0 120.8 ± 0.09396
1200
1000
800
600
400
200

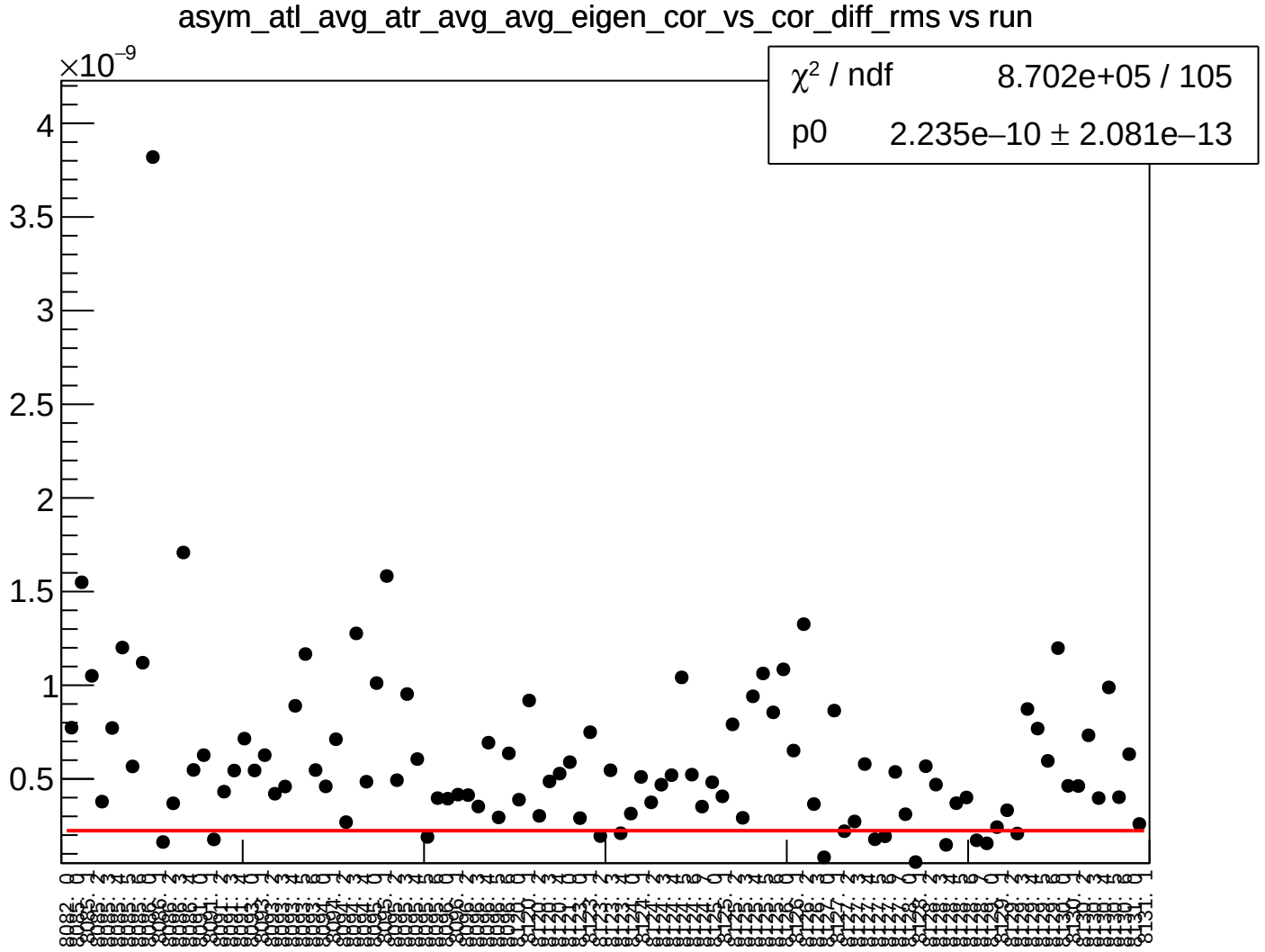

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.91 / 105
p0 −0.05285 ± 0.1329
pull
Entries 106
Mean 100.9
Std Dev 0

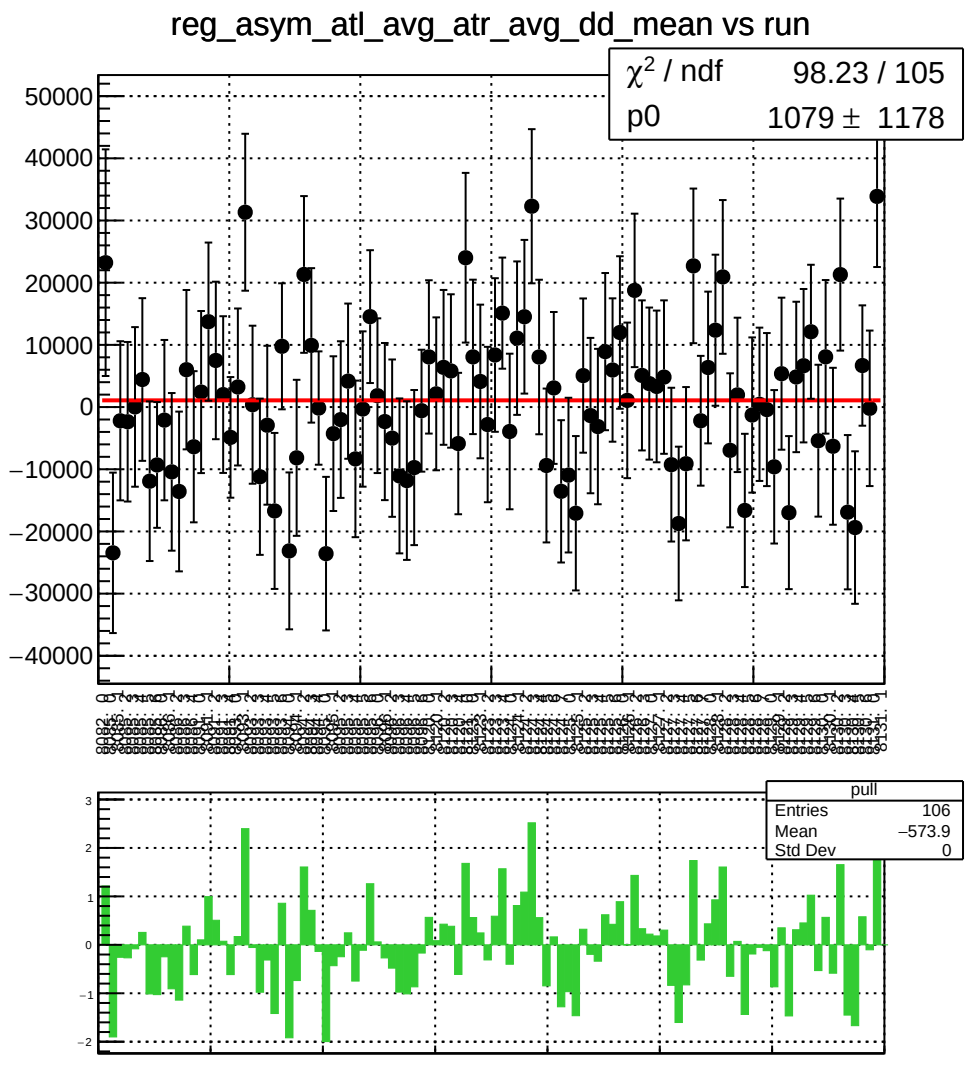

pull1D
Entries 106
Mean 0.03212
Std Dev 0.9153

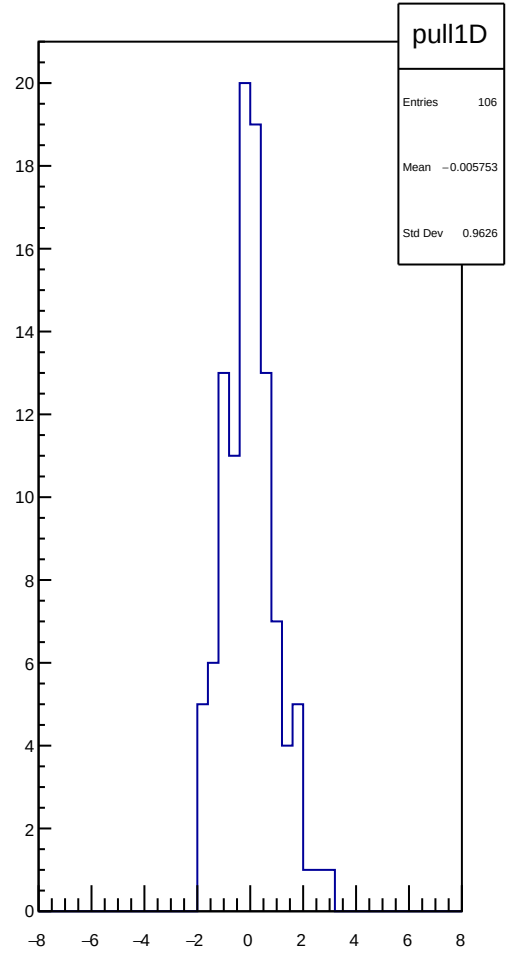

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.714e+05 / 105
p0 120.8 ± 0.09396
1200
1000
800
600
400
200

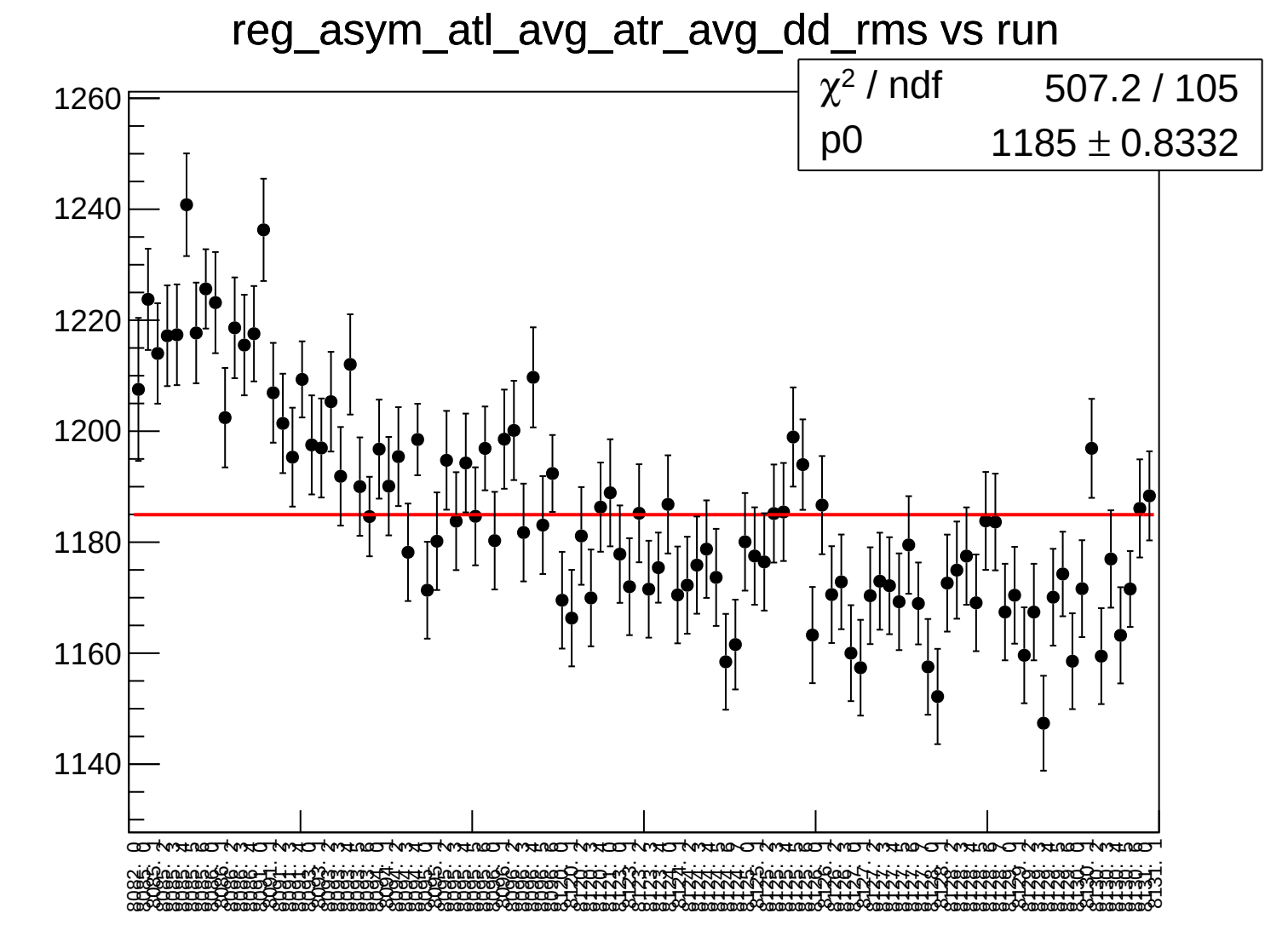

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.62 / 105
p0 −3.687e−13 ± 2.944e−13
pull
Entries 106
Mean 49.15
Std Dev 0

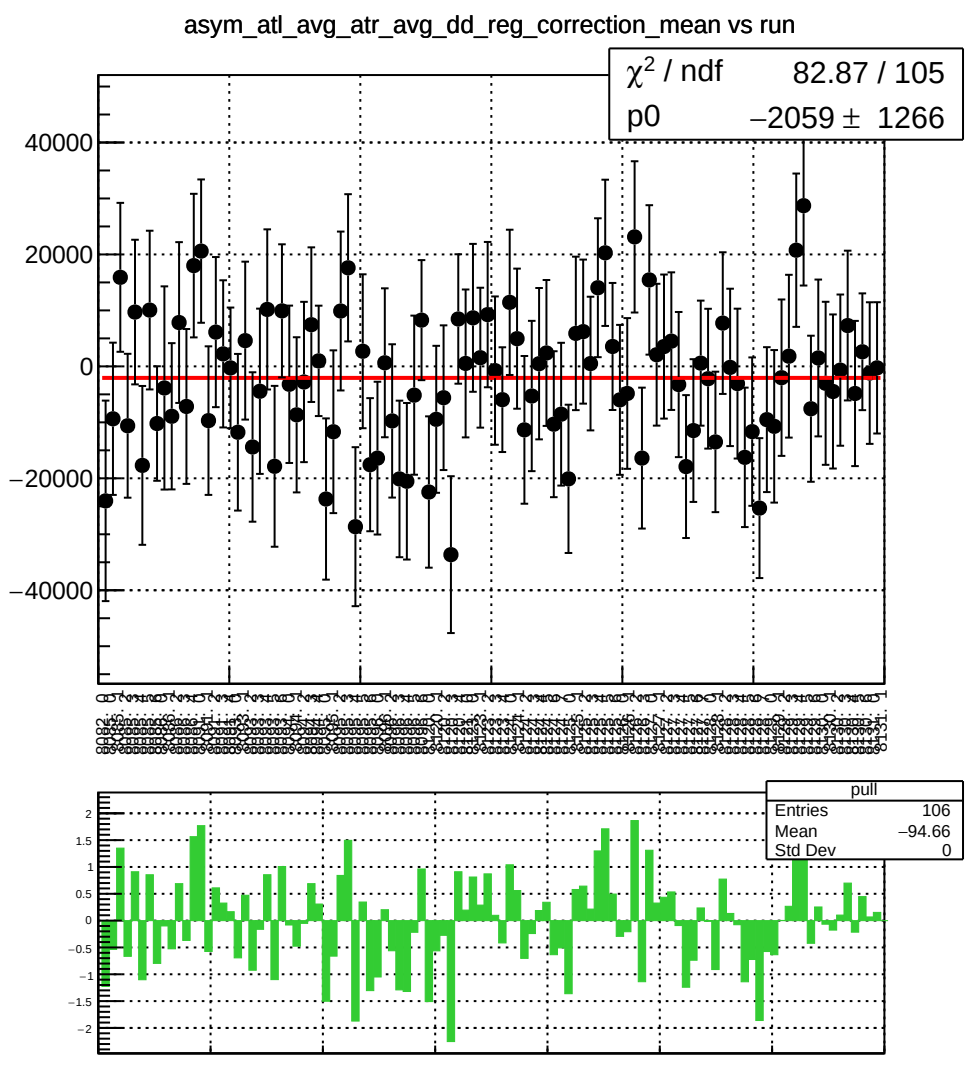

pull1D
Entries 106
Mean 0.1262
Std Dev 0.9262

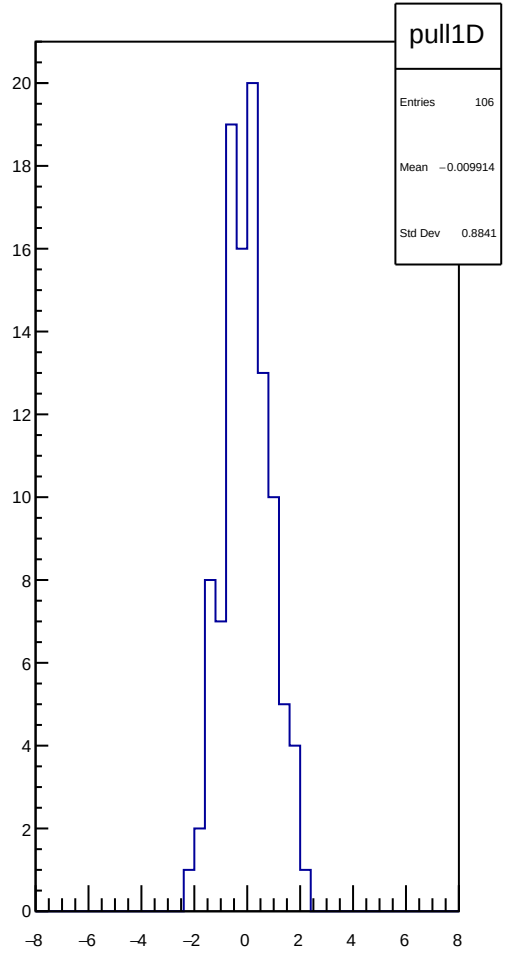

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.702e+05 / 105
p0 2.235e−10 ± 2.081e−13
4
3.5
3
2.5
2
1.5
1
0.5

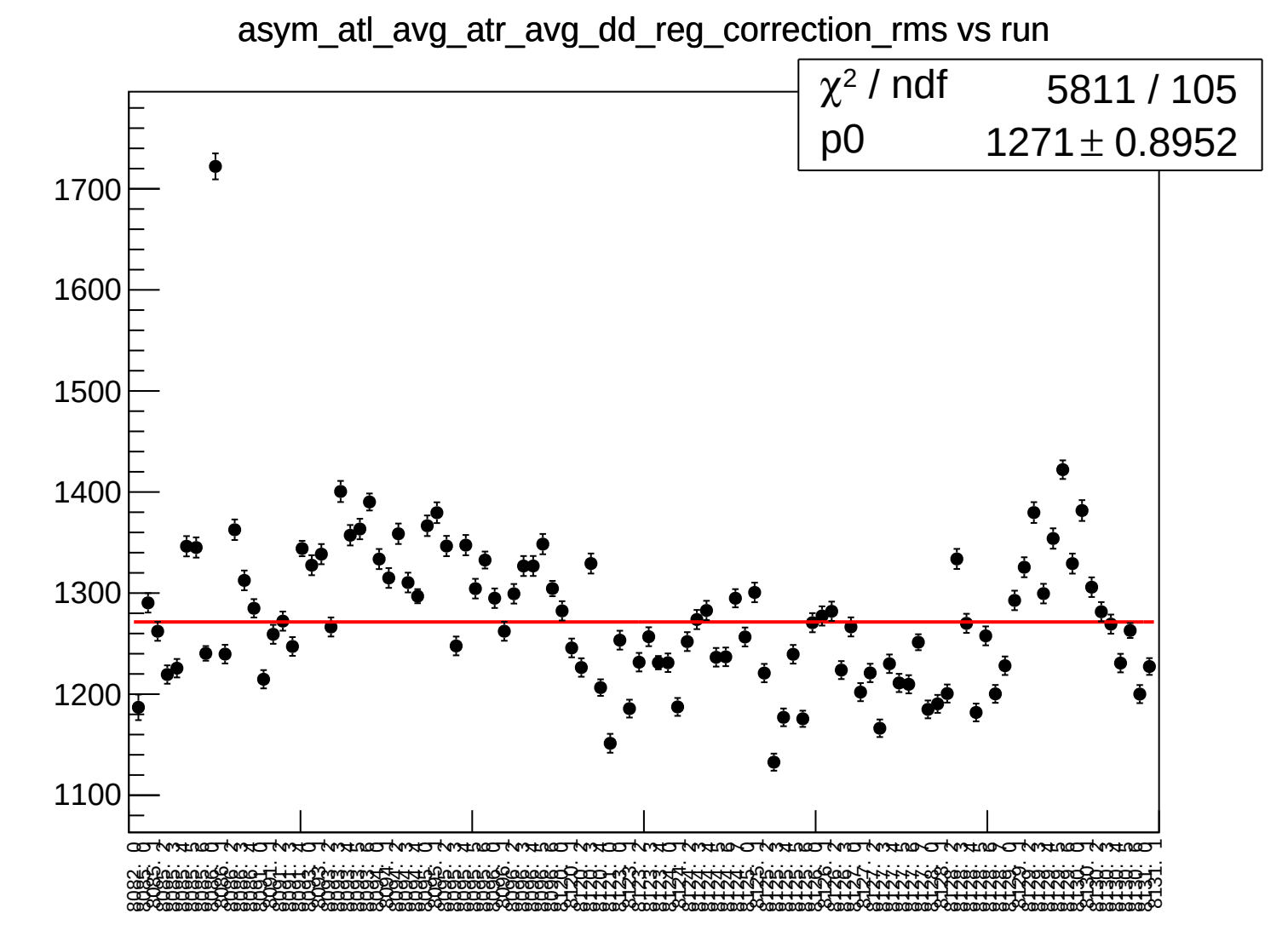

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 98.23 / 105
p0 1079 ± 1178
pull
Entries 106
Mean −573.9
Std Dev 0

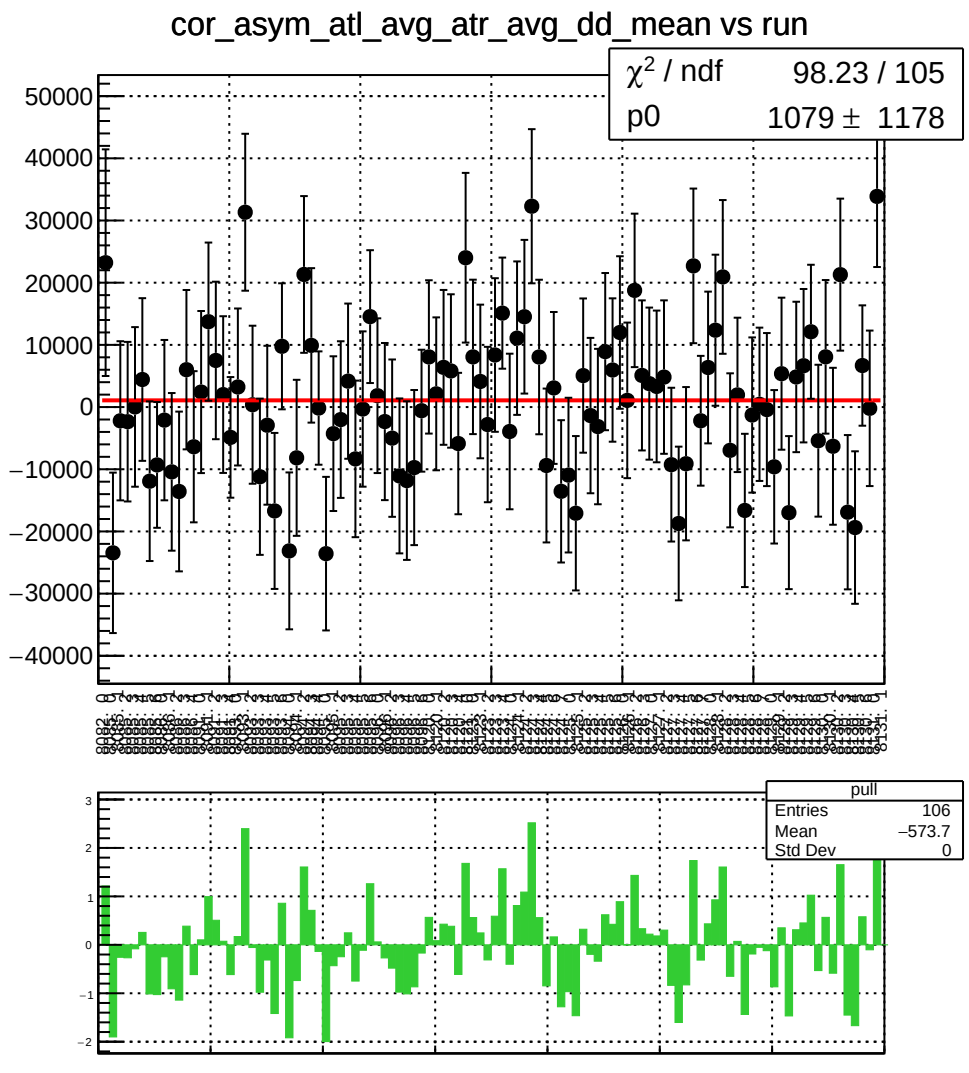

pull1D
Entries 106
Mean −0.005753
Std Dev 0.9626

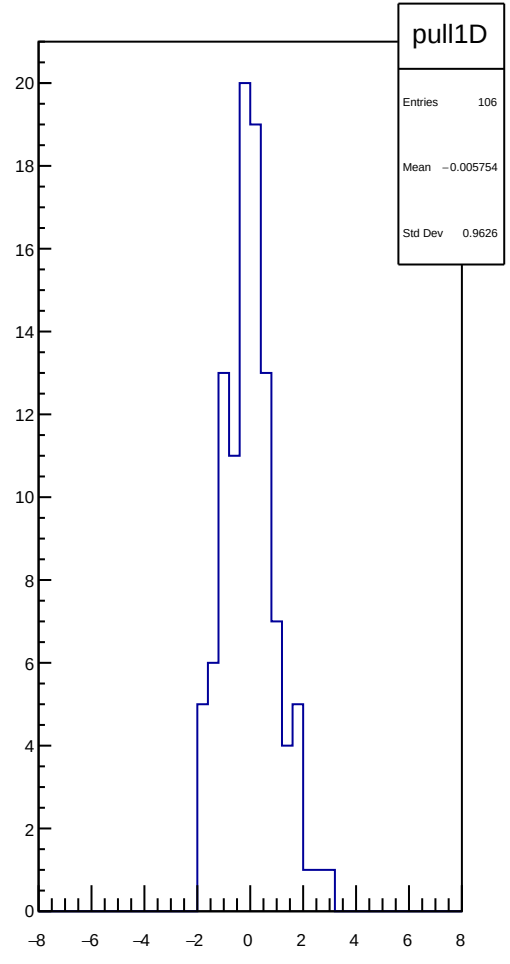

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 507.2 / 105
p0 1185 ± 0.8332
1260
1240
1220
1200
1180
1160
1140

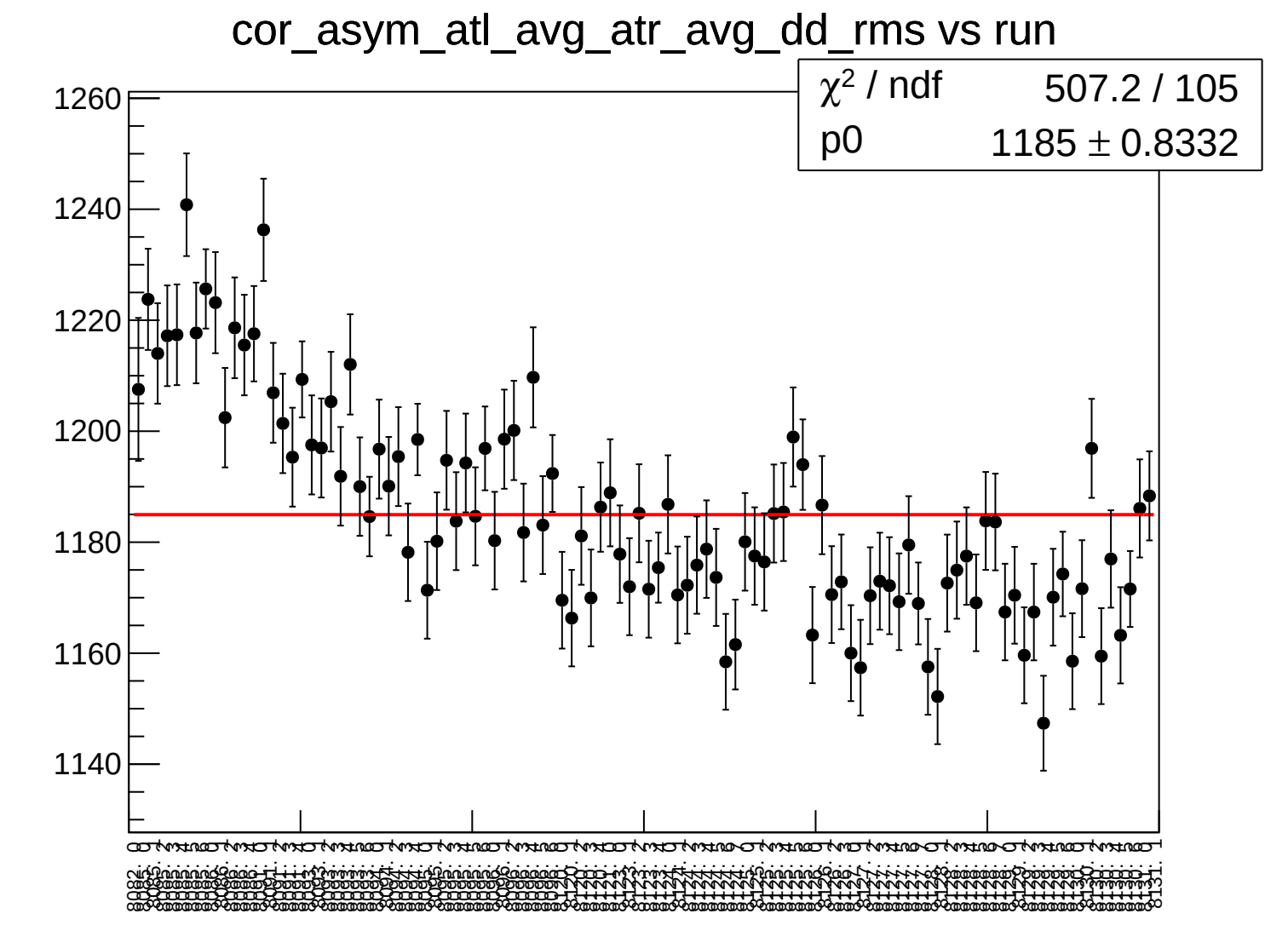

asym_atl_avg_atr_avg_dd_reg_correction_mean vs run
χ² / ndf 82.87 / 105
p0 −2059 ± 1266
40000
20000
0
−20000
−40000
pull
Entries 106
Mean −94.66
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

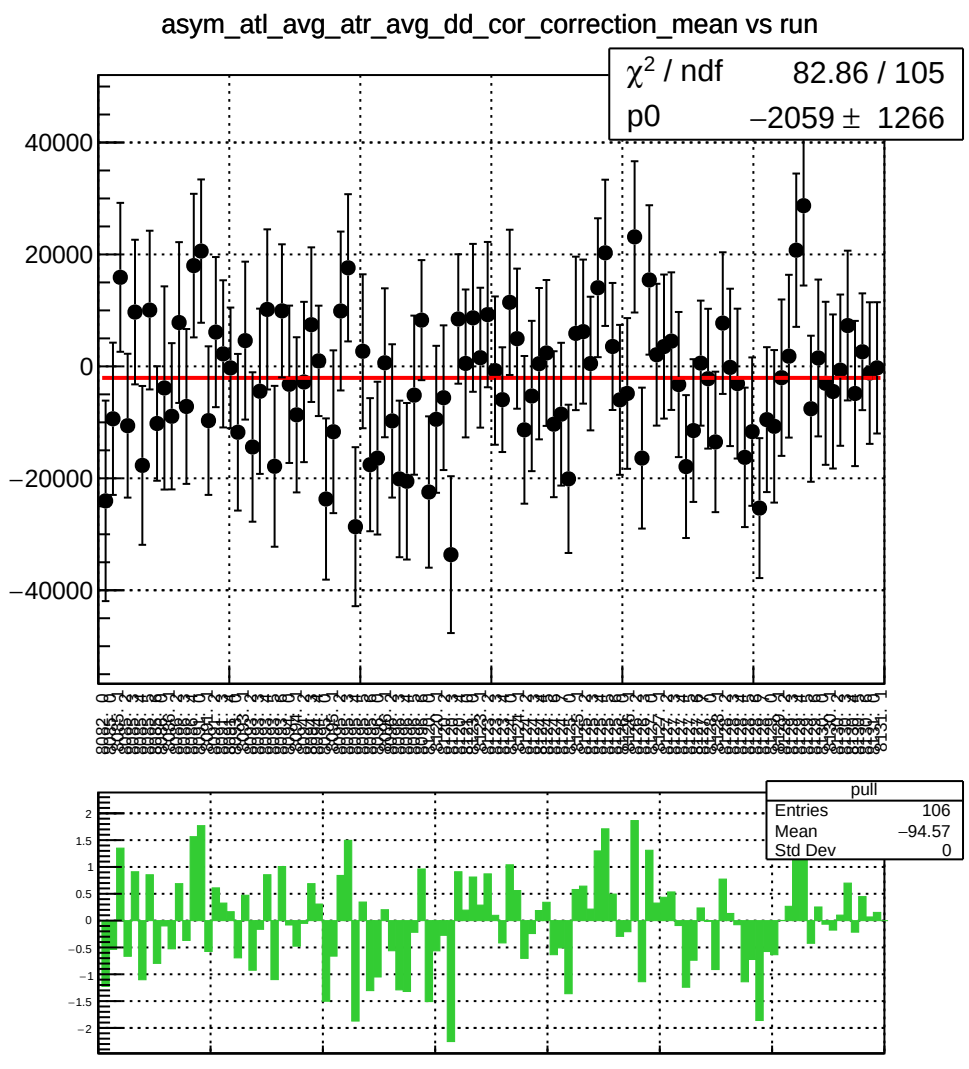

pull1D
Entries 106
Mean −0.009914
Std Dev 0.8841
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

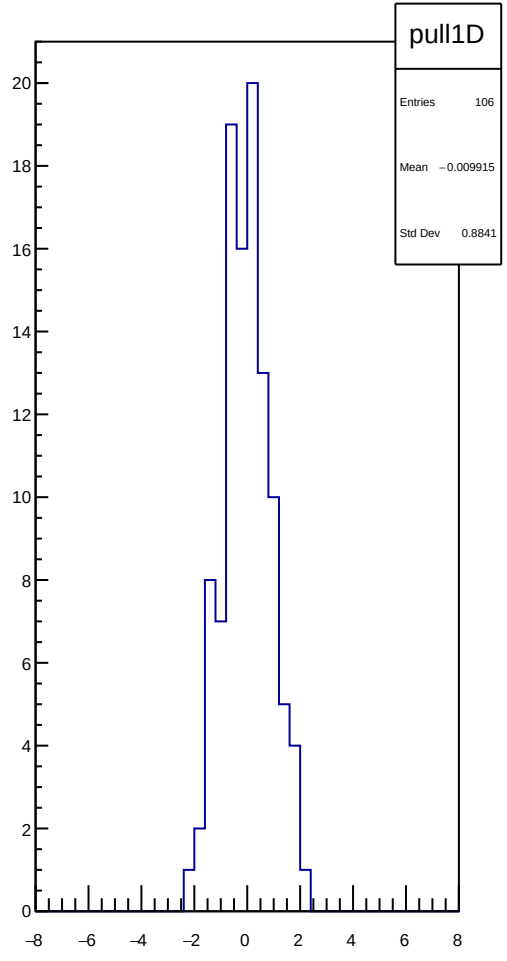

asym_atl_avg_atr_avg_dd_reg_correction_rms vs run
χ² / ndf 5811 / 105
p0 1271 ± 0.8952
1700
1600
1500
1400
1300
1200
1100

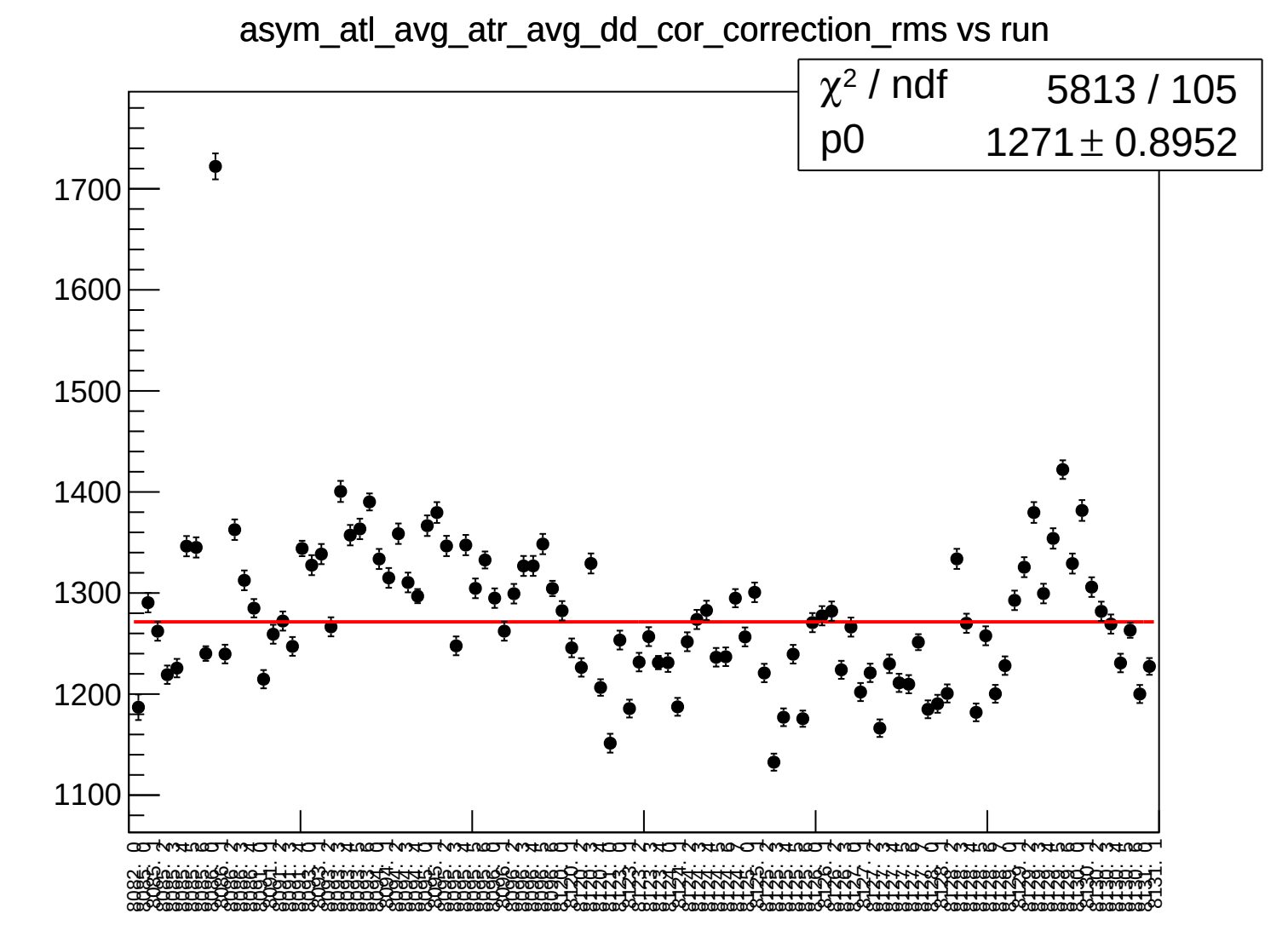

cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 98.23 / 105
p0 1079 ± 1178
pull
Entries 106
Mean −573.7
Std Dev 0

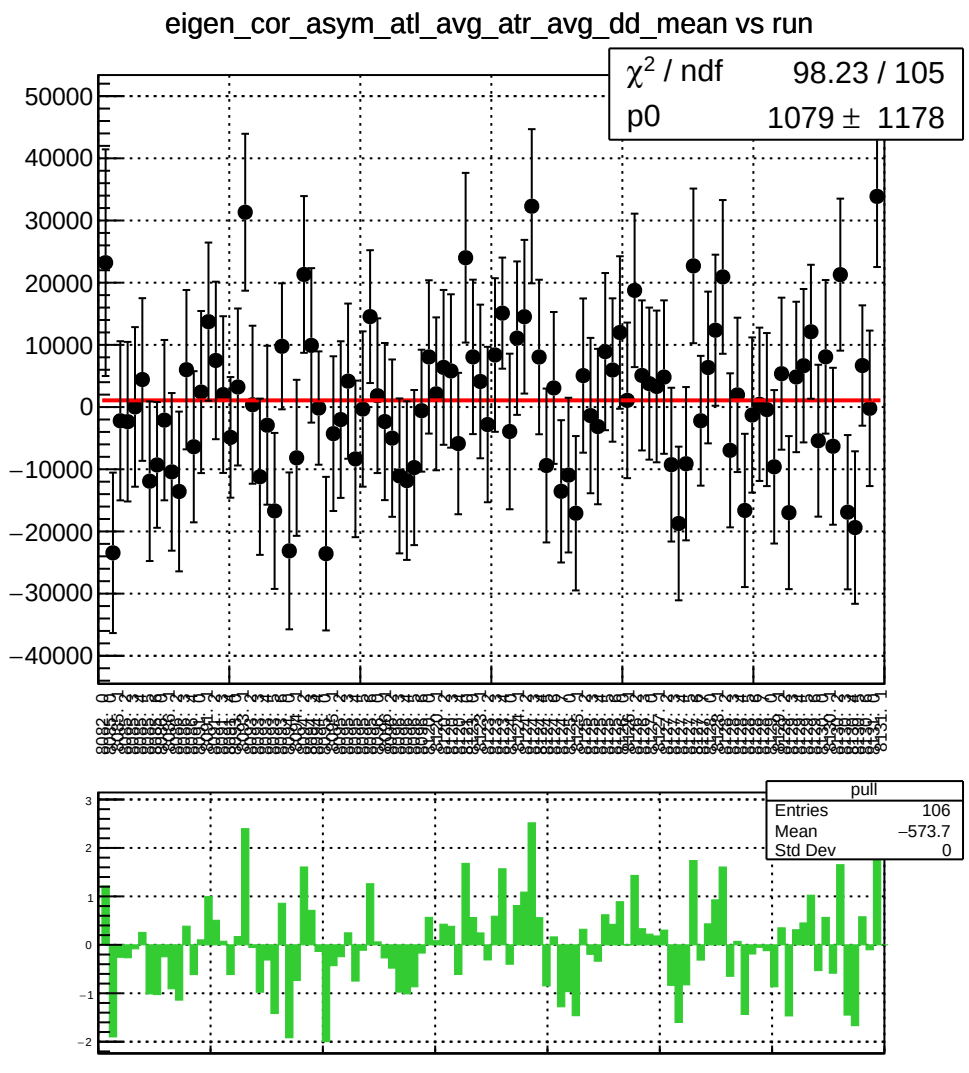

pull1D
Entries 106
Mean −0.005754
Std Dev 0.9626

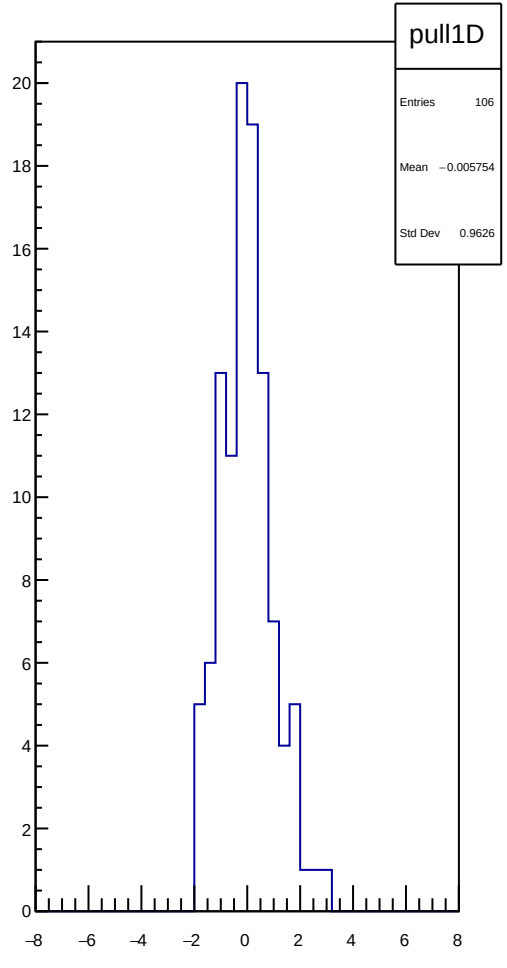

cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 507.2 / 105
p0 1185 ± 0.8332
1260
1240
1220
1200
1180
1160
1140

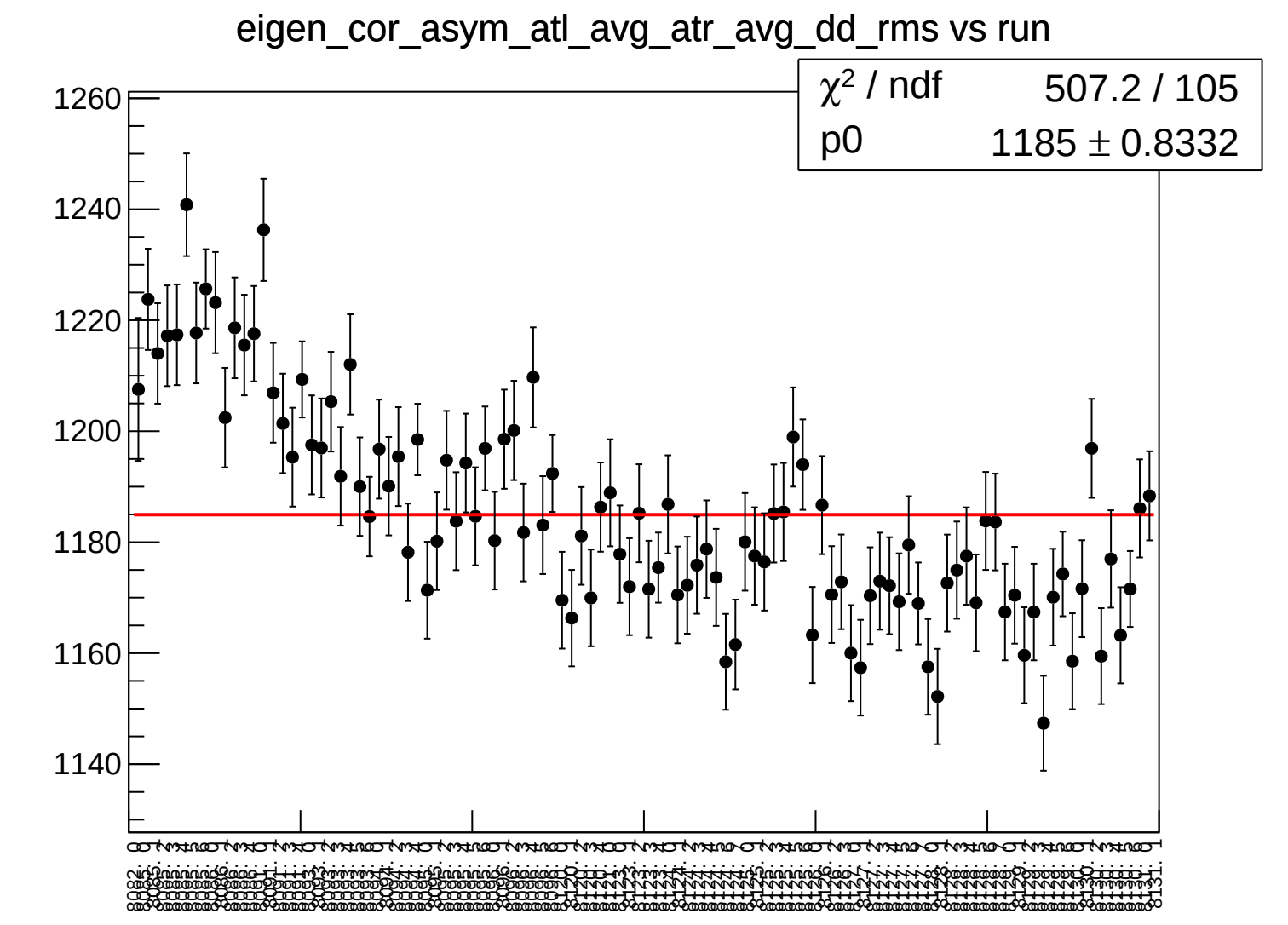

asym_atl_avg_atr_avg_dd_cor_correction_mean vs run
χ² / ndf 82.86 / 105
p0 −2059 ± 1266
40000
20000
0
−20000
−40000
pull
Entries 106
Mean −94.57
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

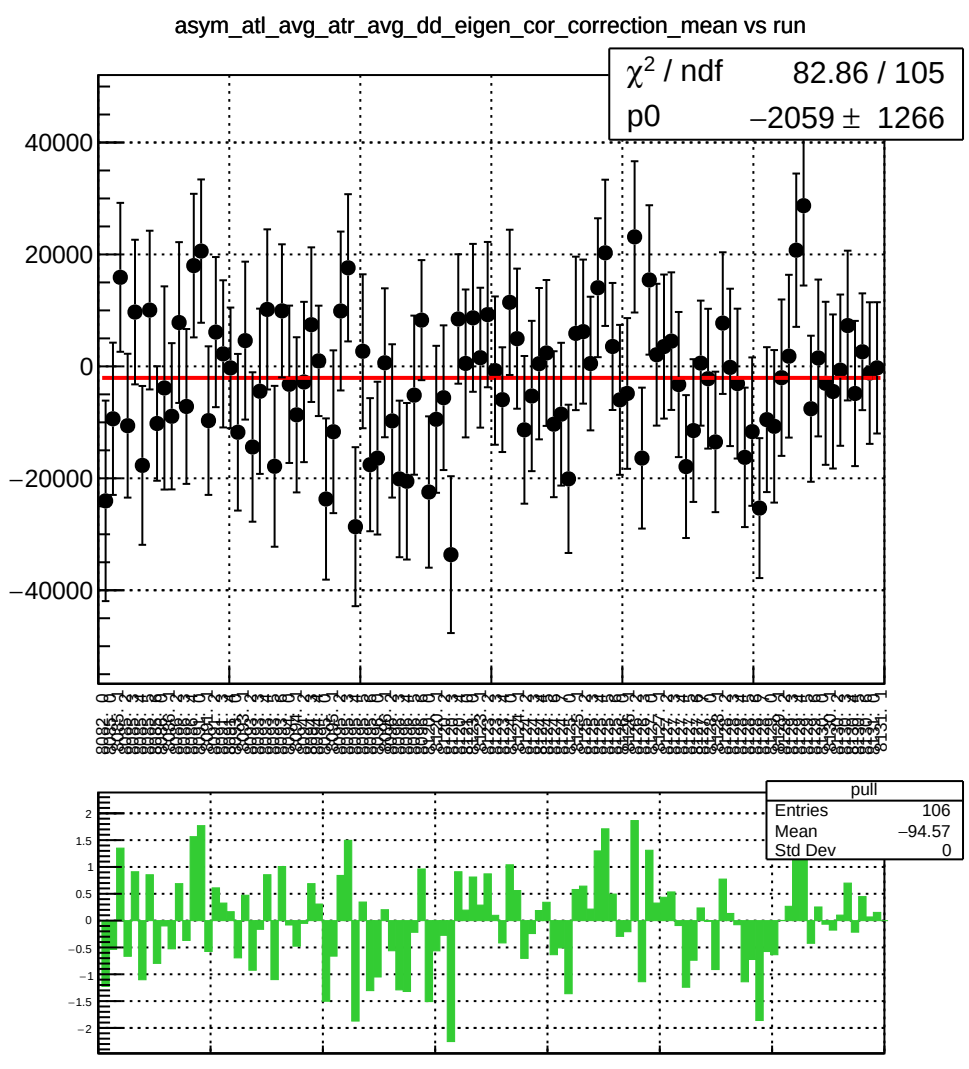

pull1D
Entries 106
Mean −0.009915
Std Dev 0.8841
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

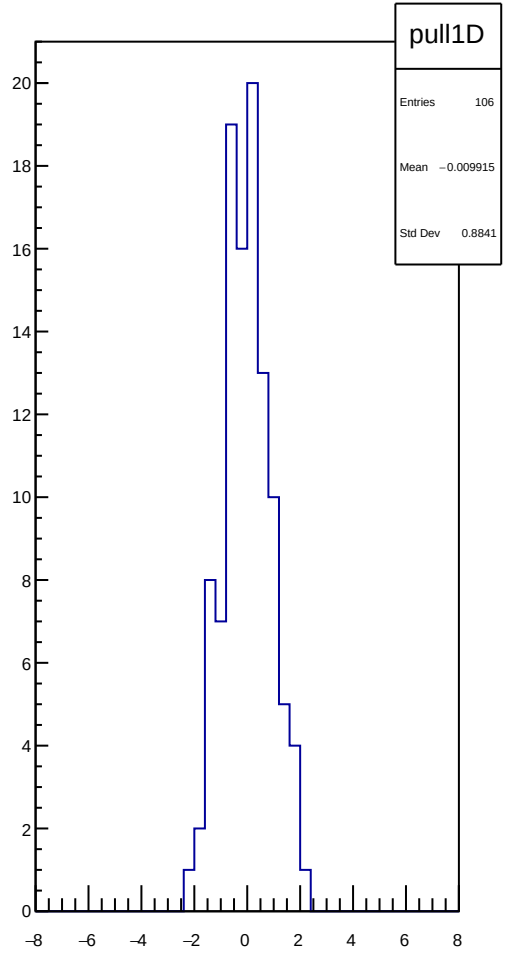

asym_atl_avg_atr_avg_dd_cor_correction_rms vs run
χ² / ndf 5813 / 105
p0 1271 ± 0.8952
1700
1600
1500
1400
1300
1200
1100

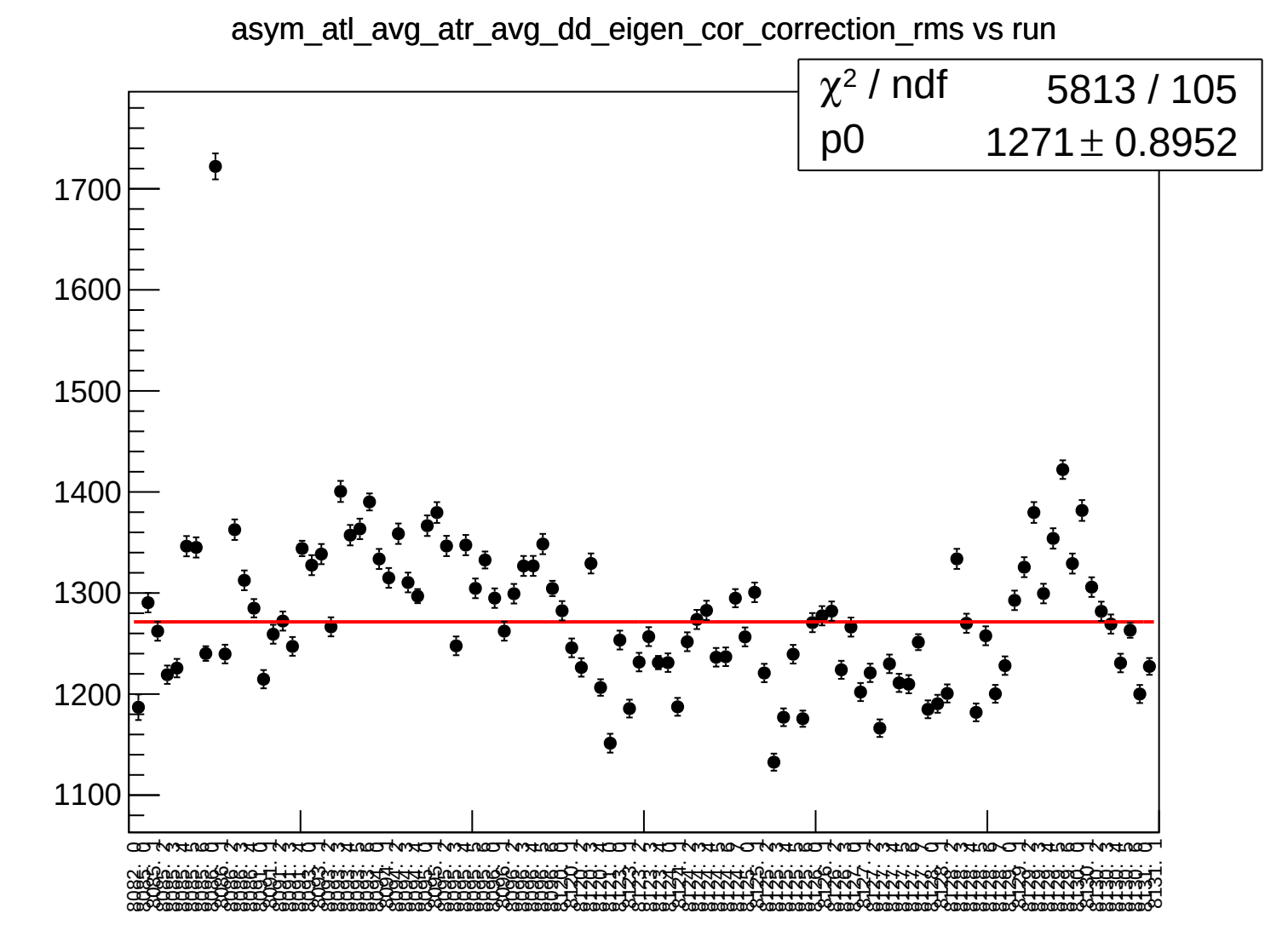

eigen_cor_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 98.23 / 105
p0 1079 ± 1178
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 106
Mean −573.7
Std Dev 0
3
2
1
0
−1
−2

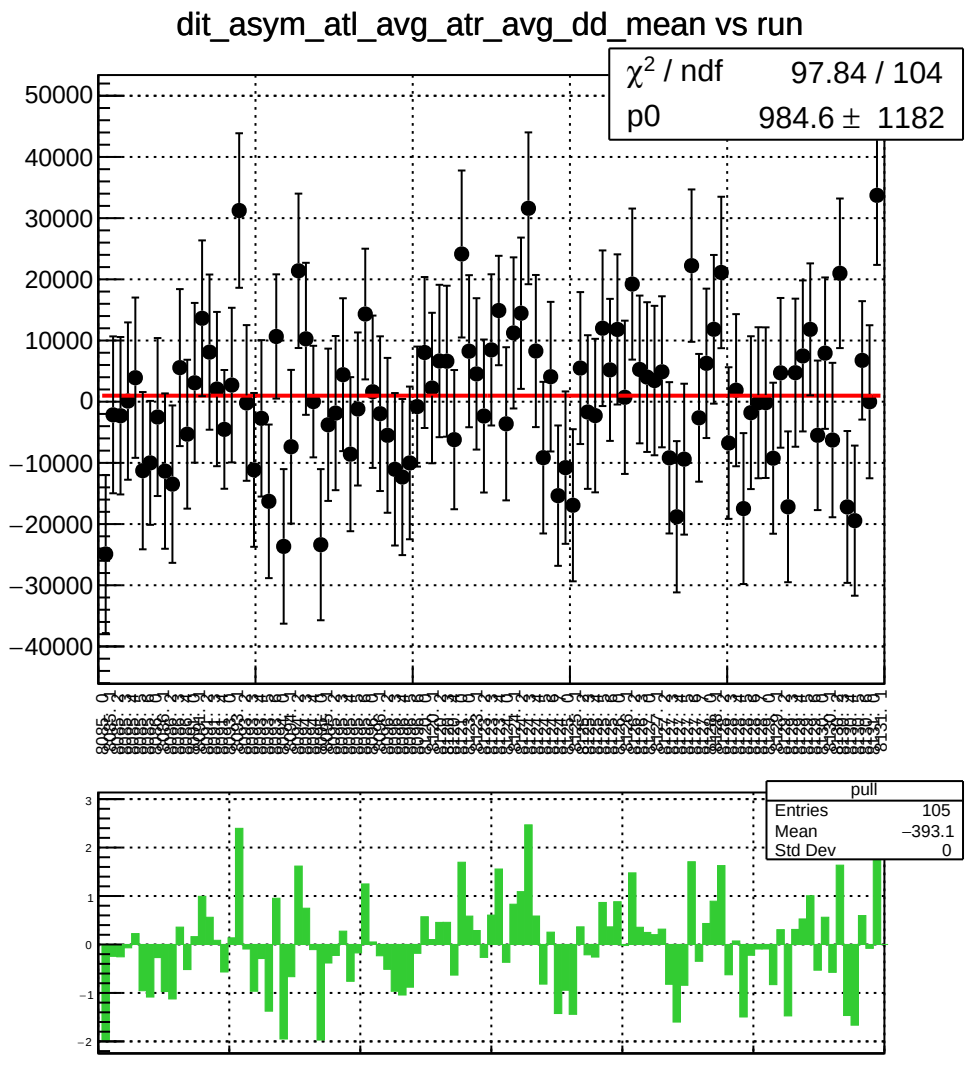

pull1D
Entries 106
Mean −0.005754
Std Dev 0.9626
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

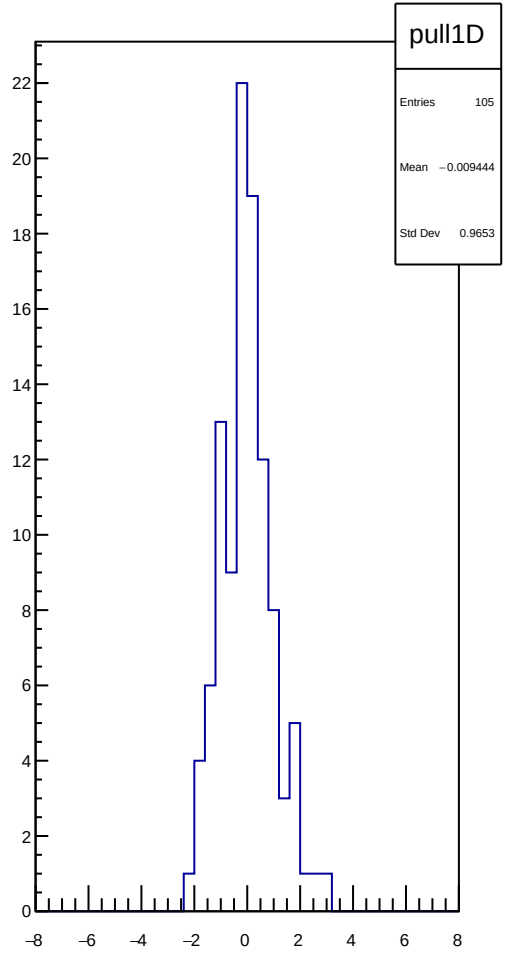

eigen_cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 507.2 / 105
p0 1185 ± 0.8332
1260
1240
1220
1200
1180
1160
1140

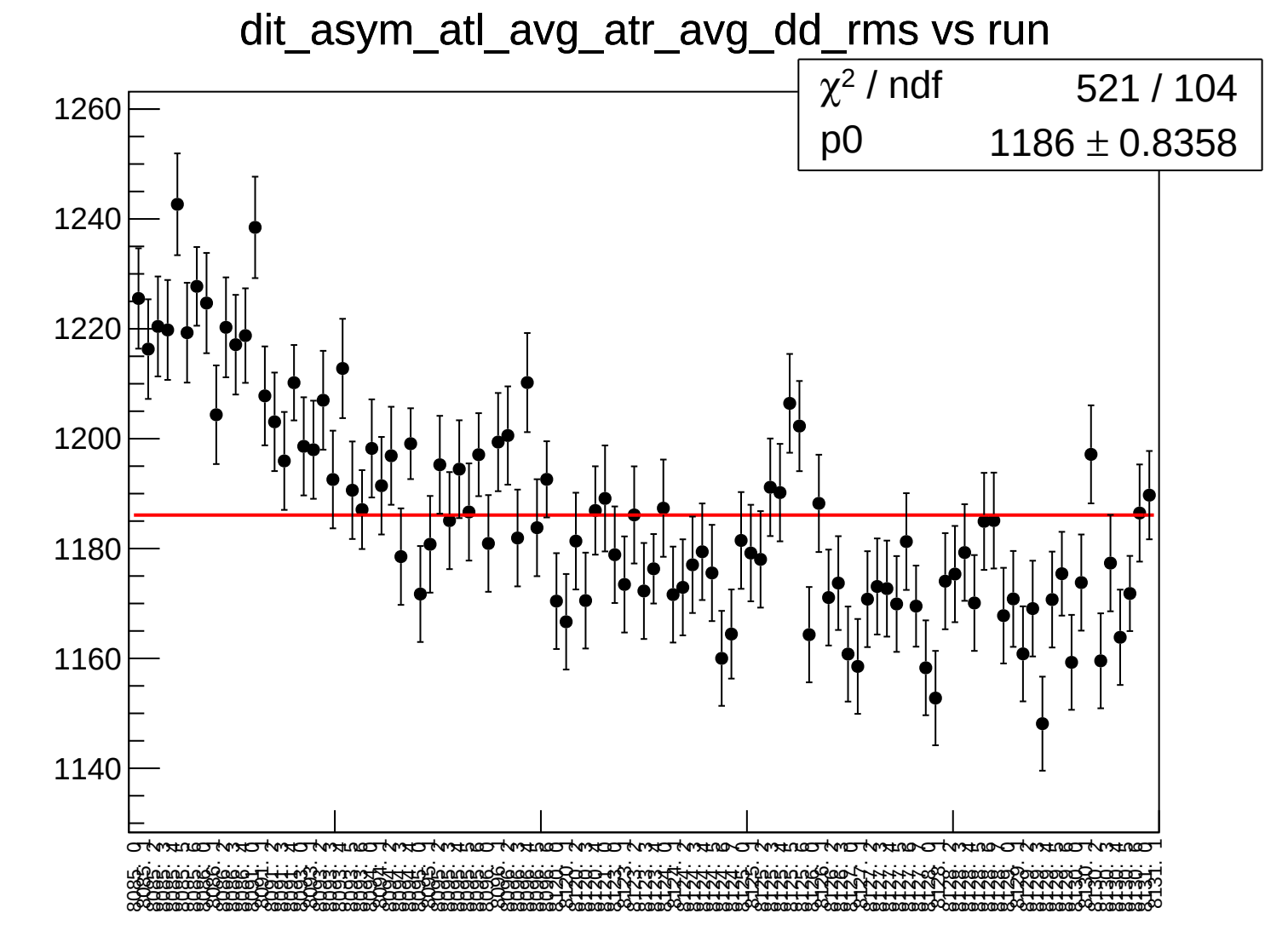

asym_atl_avg_atr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 82.86 / 105
p0 −2059 ± 1266
40000
20000
0
−20000
−40000
pull
Entries 106
Mean −94.57
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

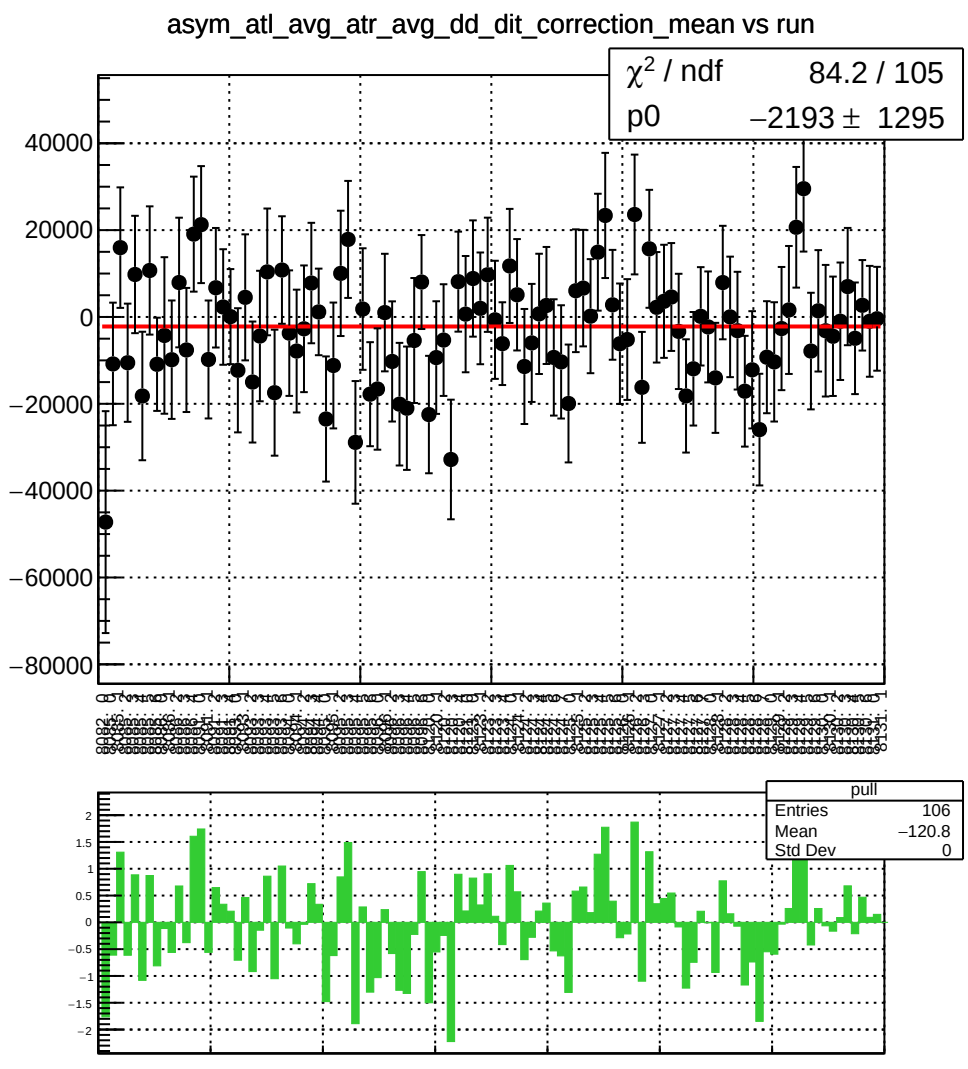

pull1D
Entries 106
Mean −0.009915
Std Dev 0.8841
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

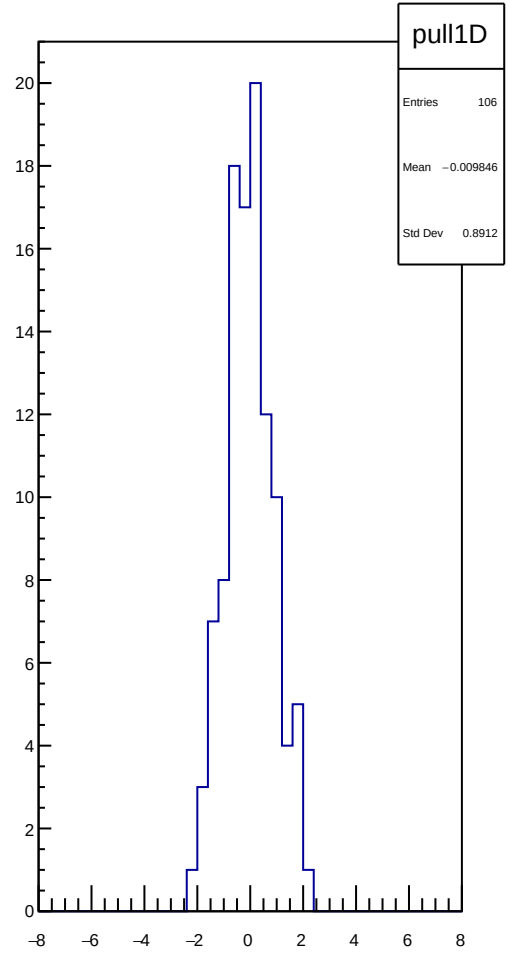

asym_atl_avg_atr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 5813 / 105
p0 1271 ± 0.8952
1700
1600
1500
1400
1300
1200
1100

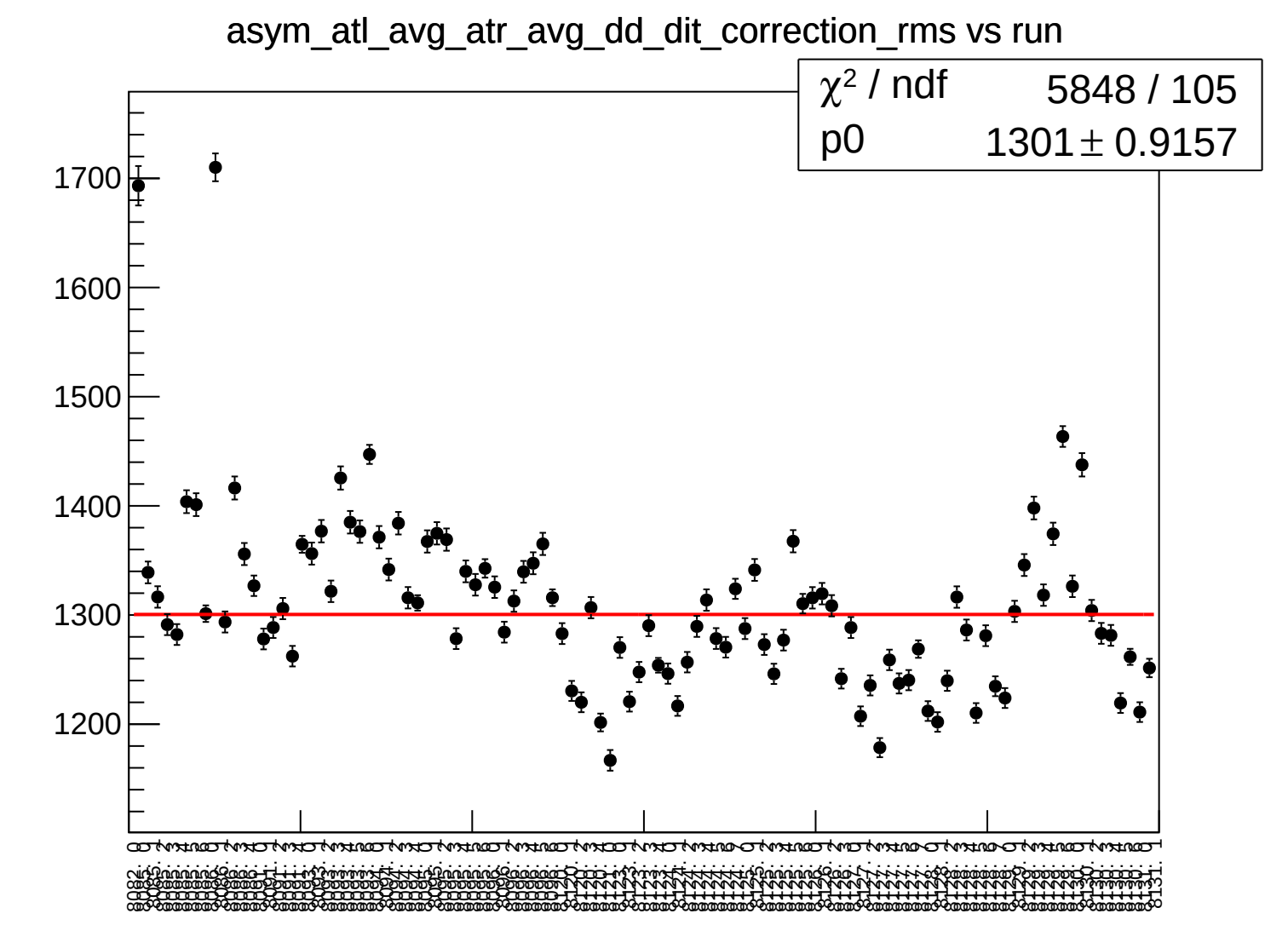

dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 97.84 / 104
p0 984.6 ± 1182
pull
Entries 105
Mean −393.1
Std Dev 0

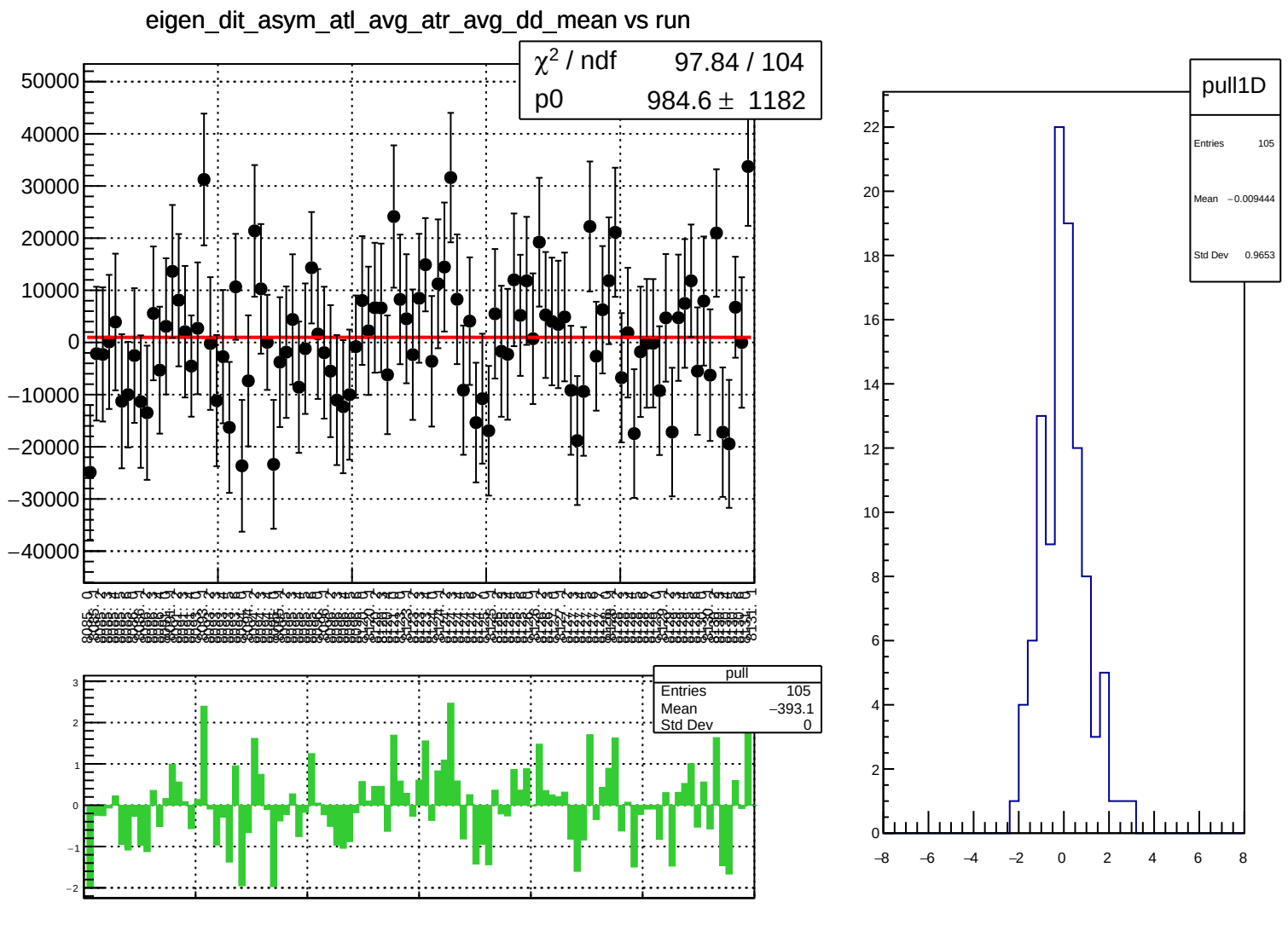

pull1D
Entries 105
Mean −0.009444
Std Dev 0.9653

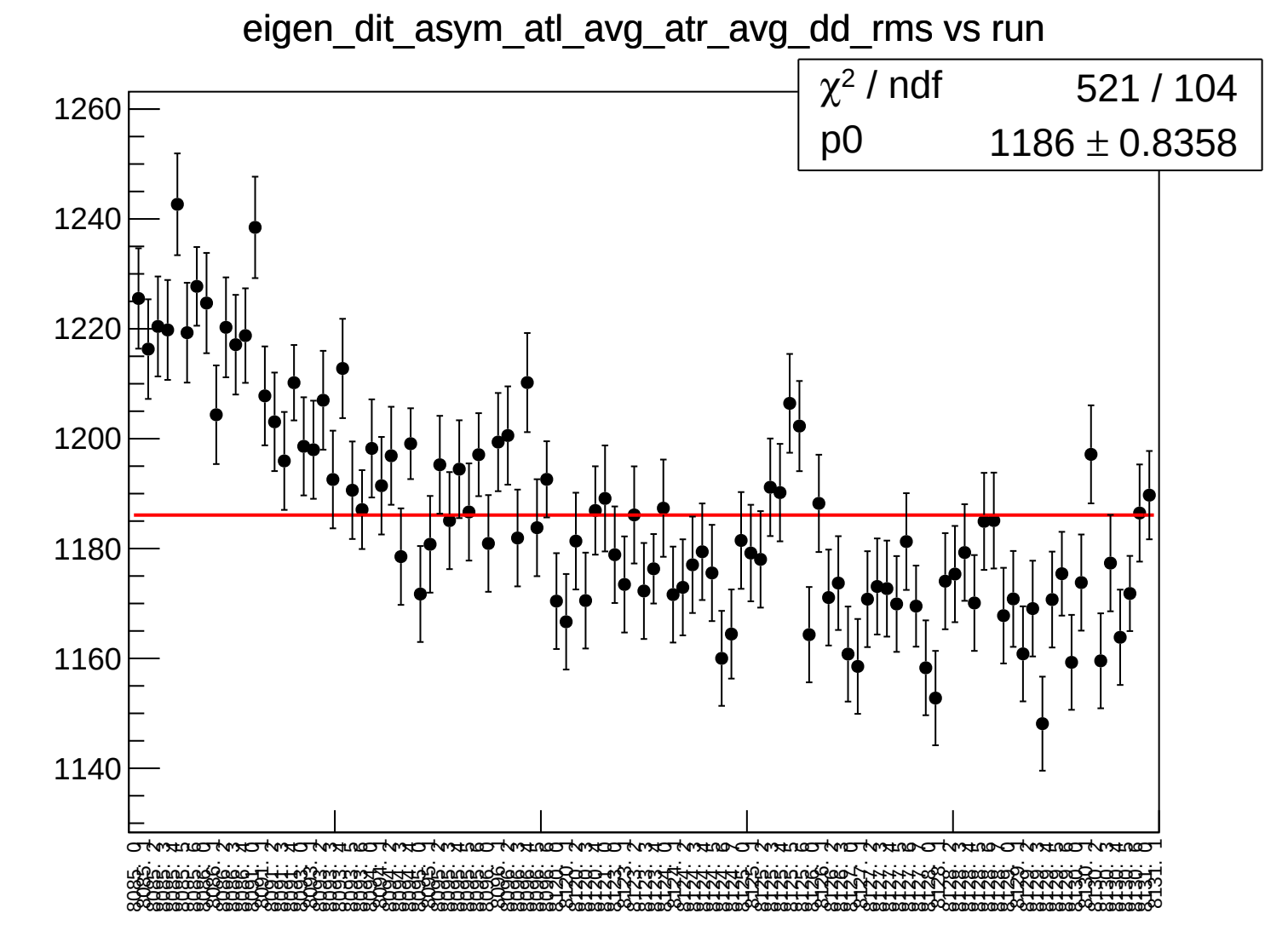

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 521 / 104
p0 1186 ± 0.8358
1260
1240
1220
1200
1180
1160
1140

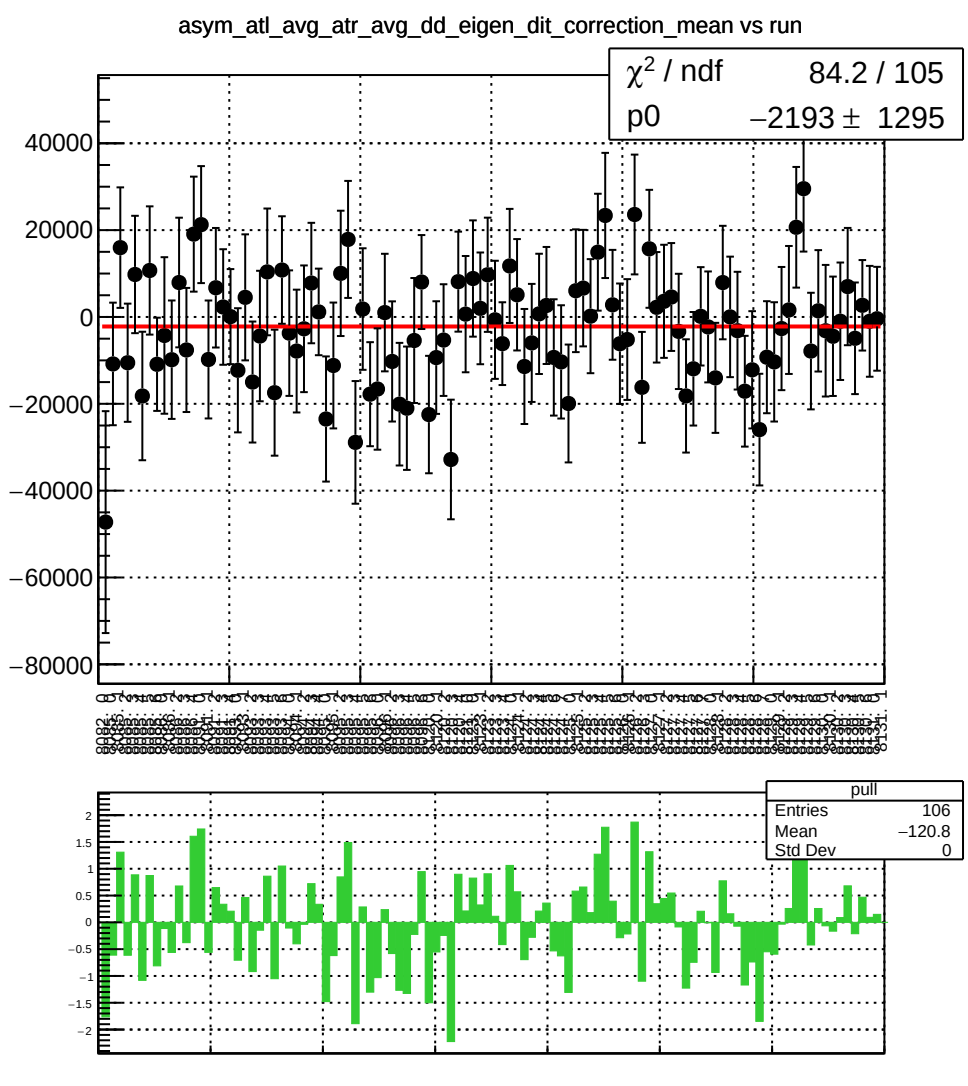

asym_atl_avg_atr_avg_dd_dit_correction_mean vs run
χ² / ndf 84.2 / 105
p0 −2193 ± 1295
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 106
Mean −120.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

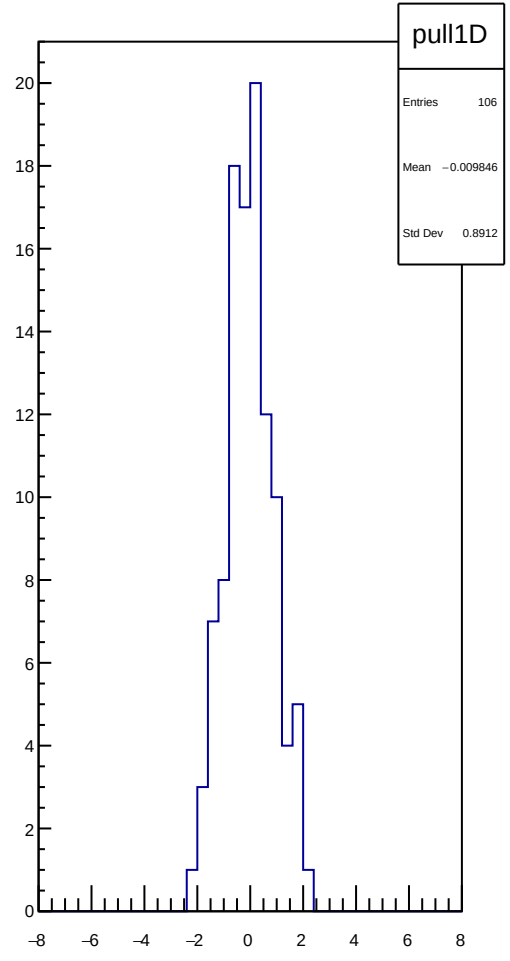

pull1D
Entries 106
Mean −0.009846
Std Dev 0.8912
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

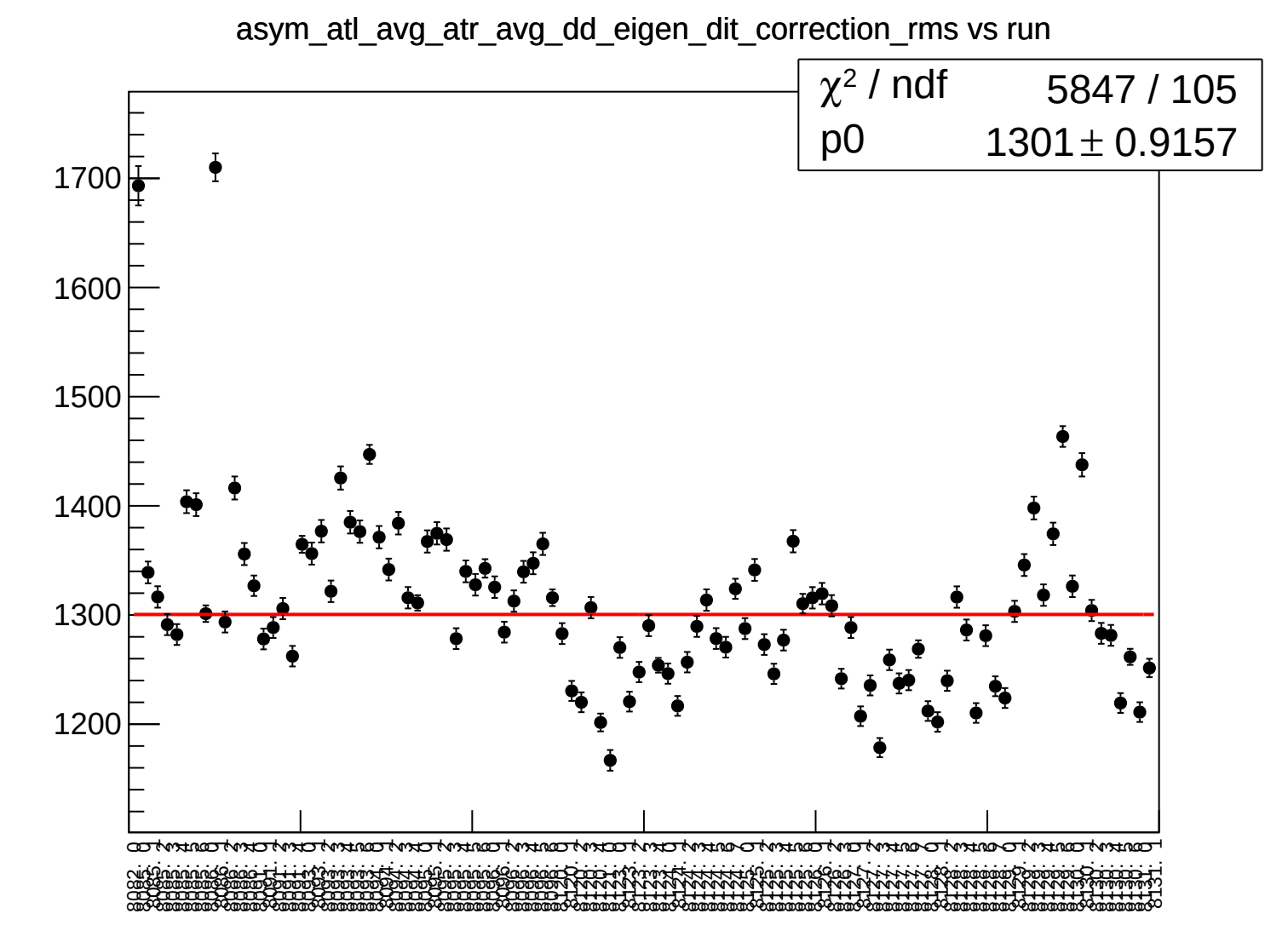

asym_atl_avg_atr_avg_dd_dit_correction_rms vs run
χ² / ndf 5848 / 105
p0 1301 ± 0.9157
1700
1600
1500
1400
1300
1200

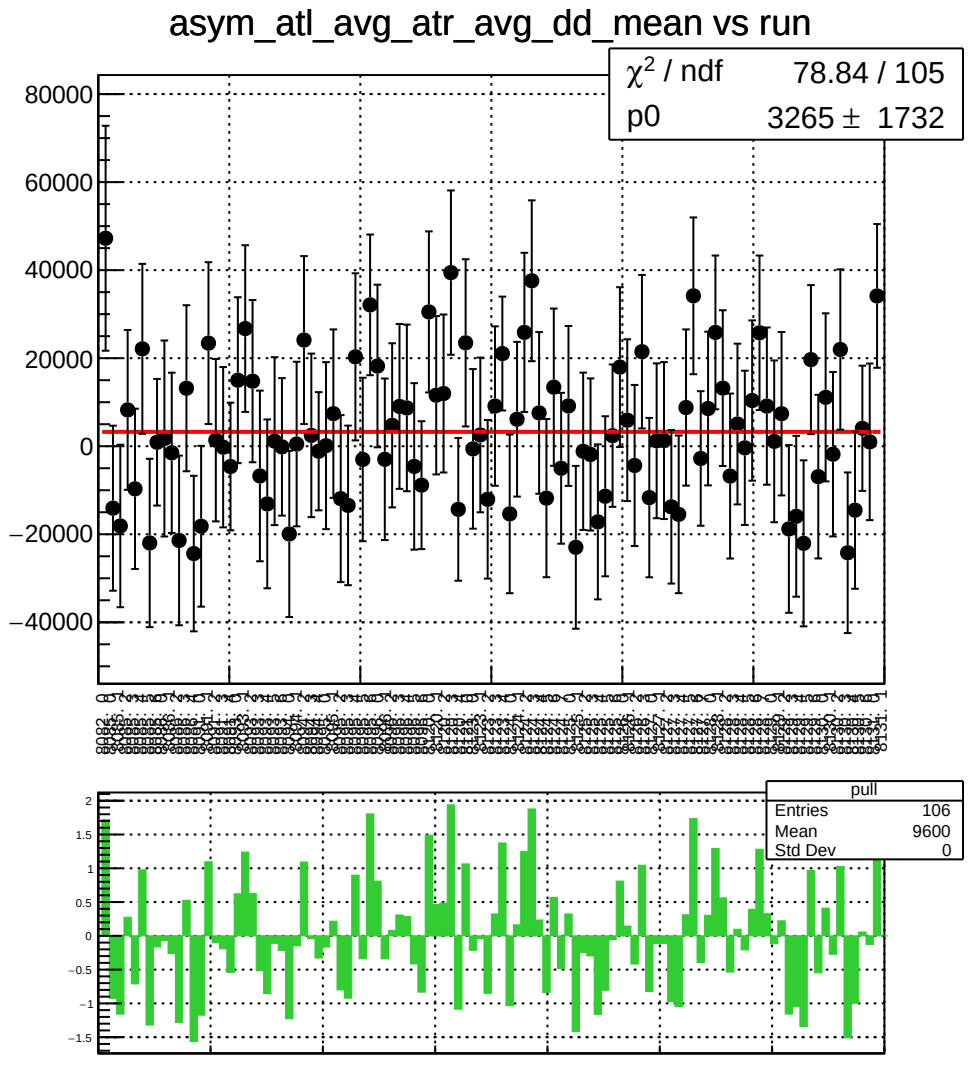

eigen_dit_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 97.84 / 104
p0 984.6 ± 1182
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 105
Mean −393.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.009444
Std Dev 0.9653
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

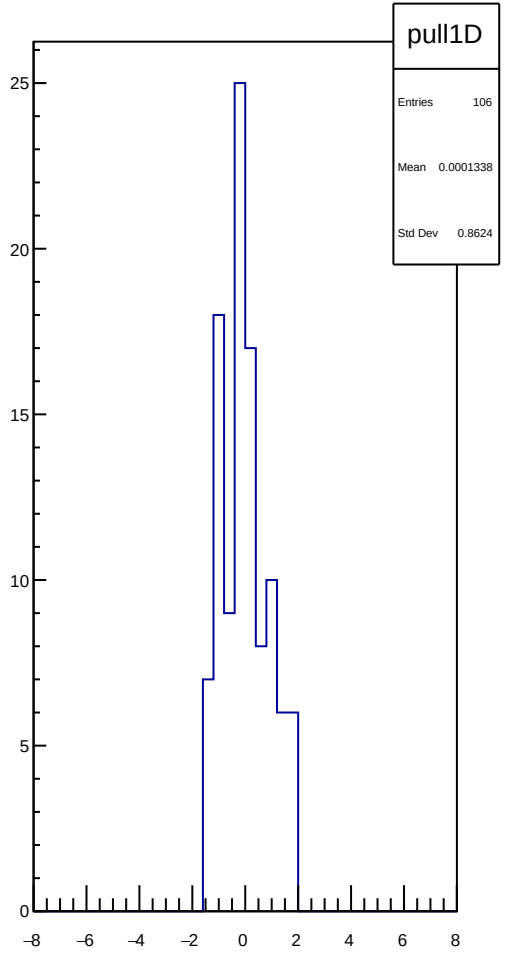

eigen_dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 521 / 104
p0 1186 ± 0.8358
1260
1240
1220
1200
1180
1160
1140

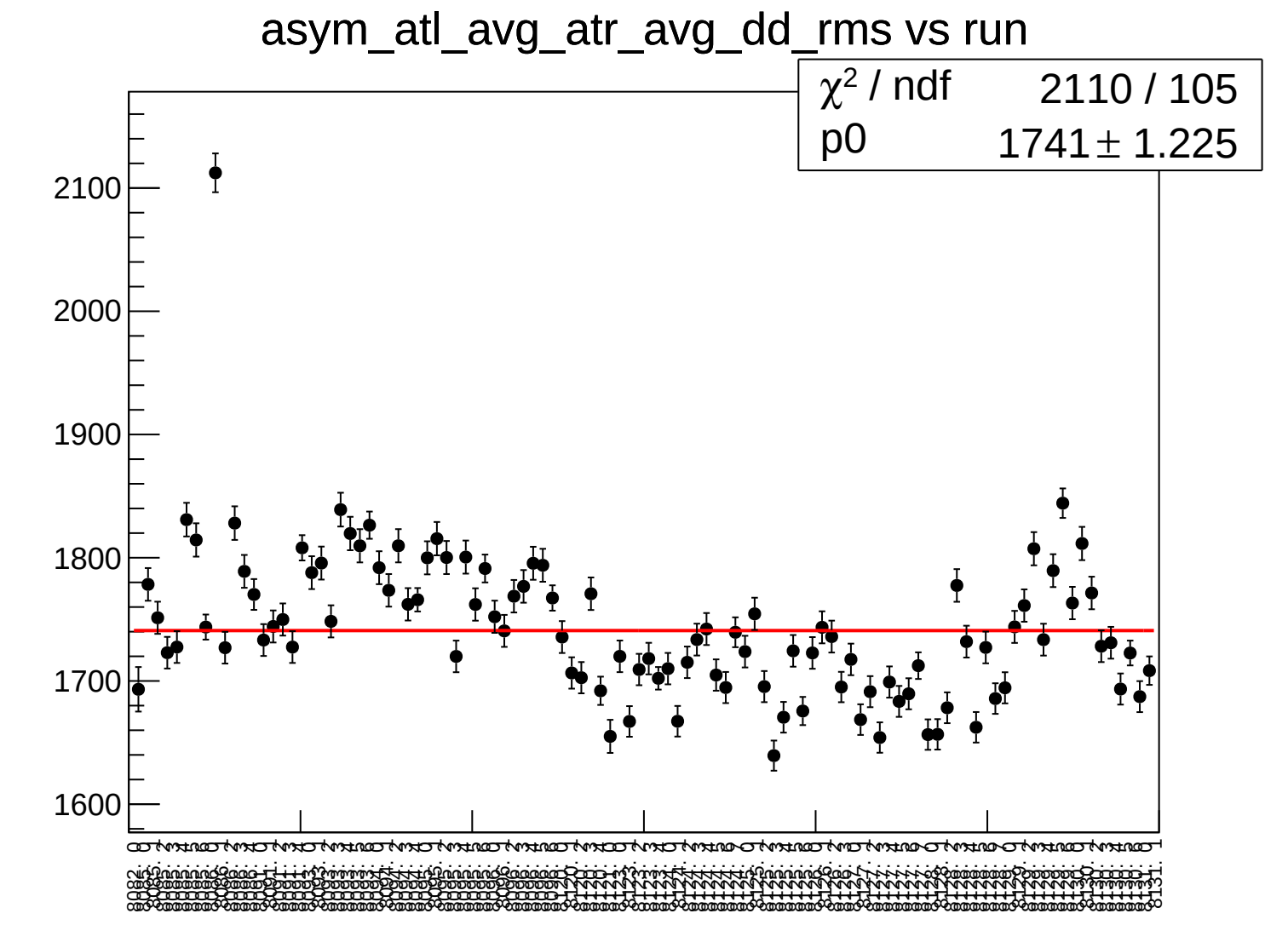

asym_atl_avg_atr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 84.2 / 105
p0 −2193 ± 1295
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 106
Mean −120.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

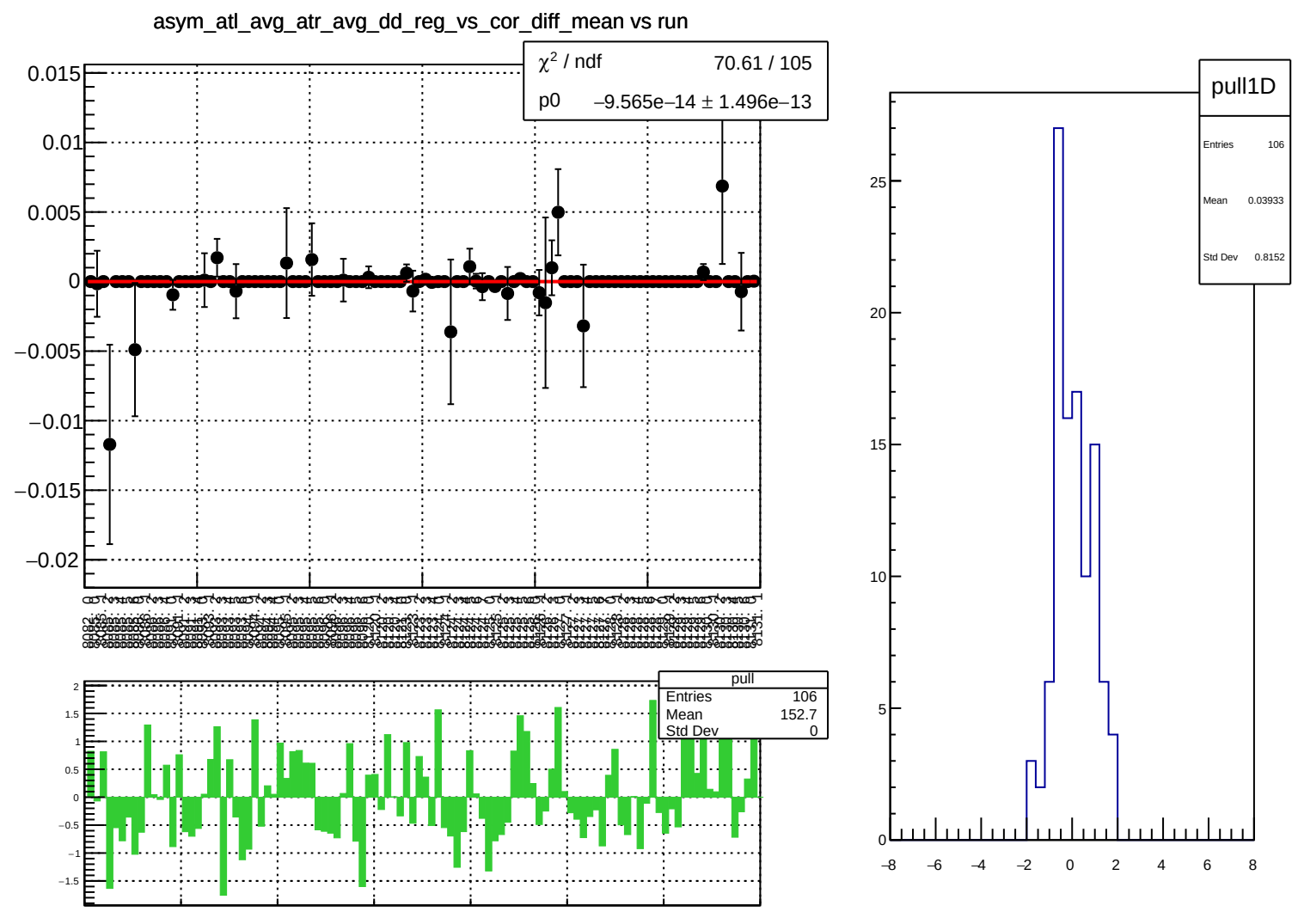

pull1D
Entries 106
Mean −0.009846
Std Dev 0.8912
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

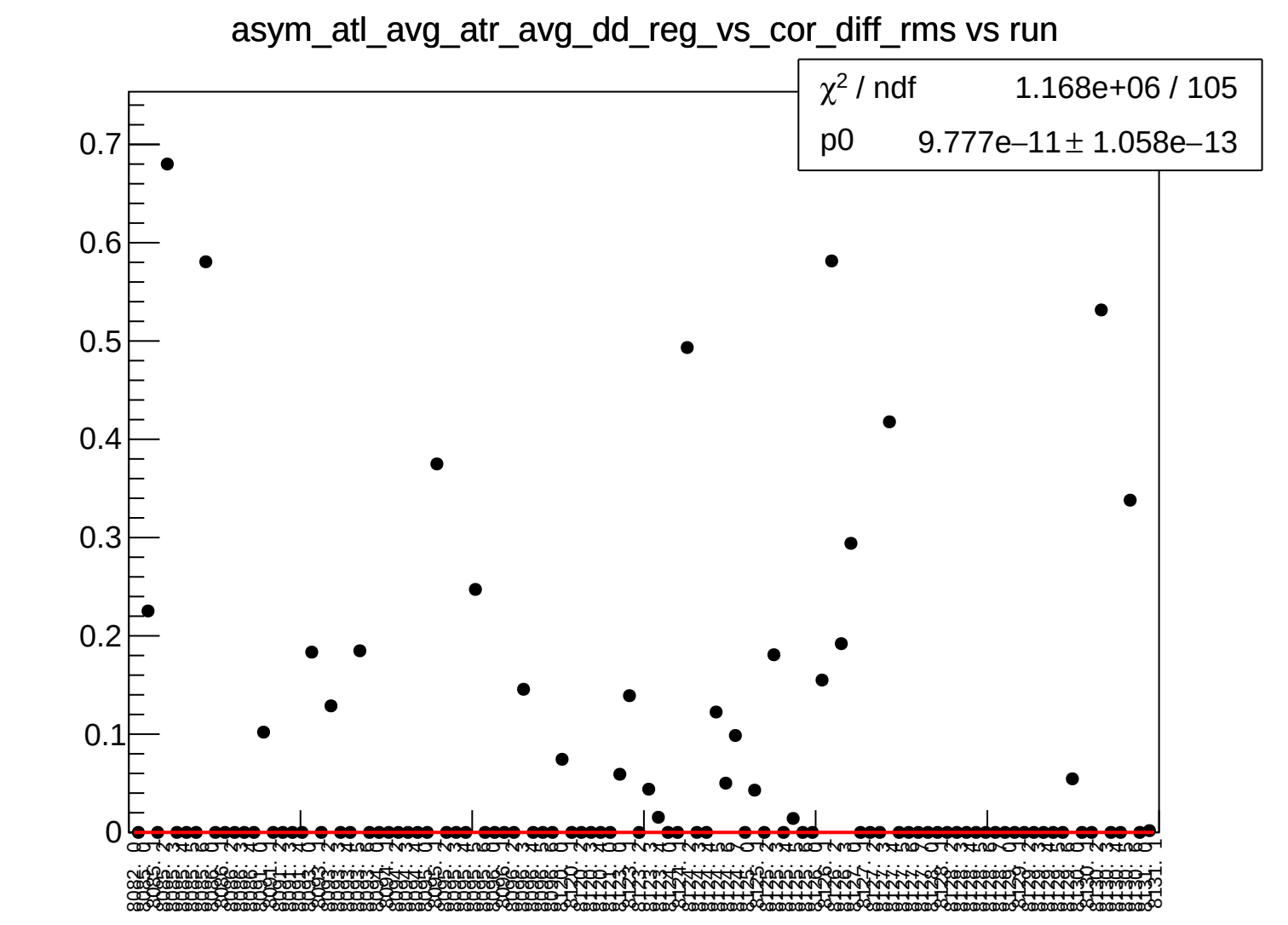

asym_atl_avg_atr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 5847 / 105
p0 1301 ± 0.9157
1700
1600
1500
1400
1300
1200

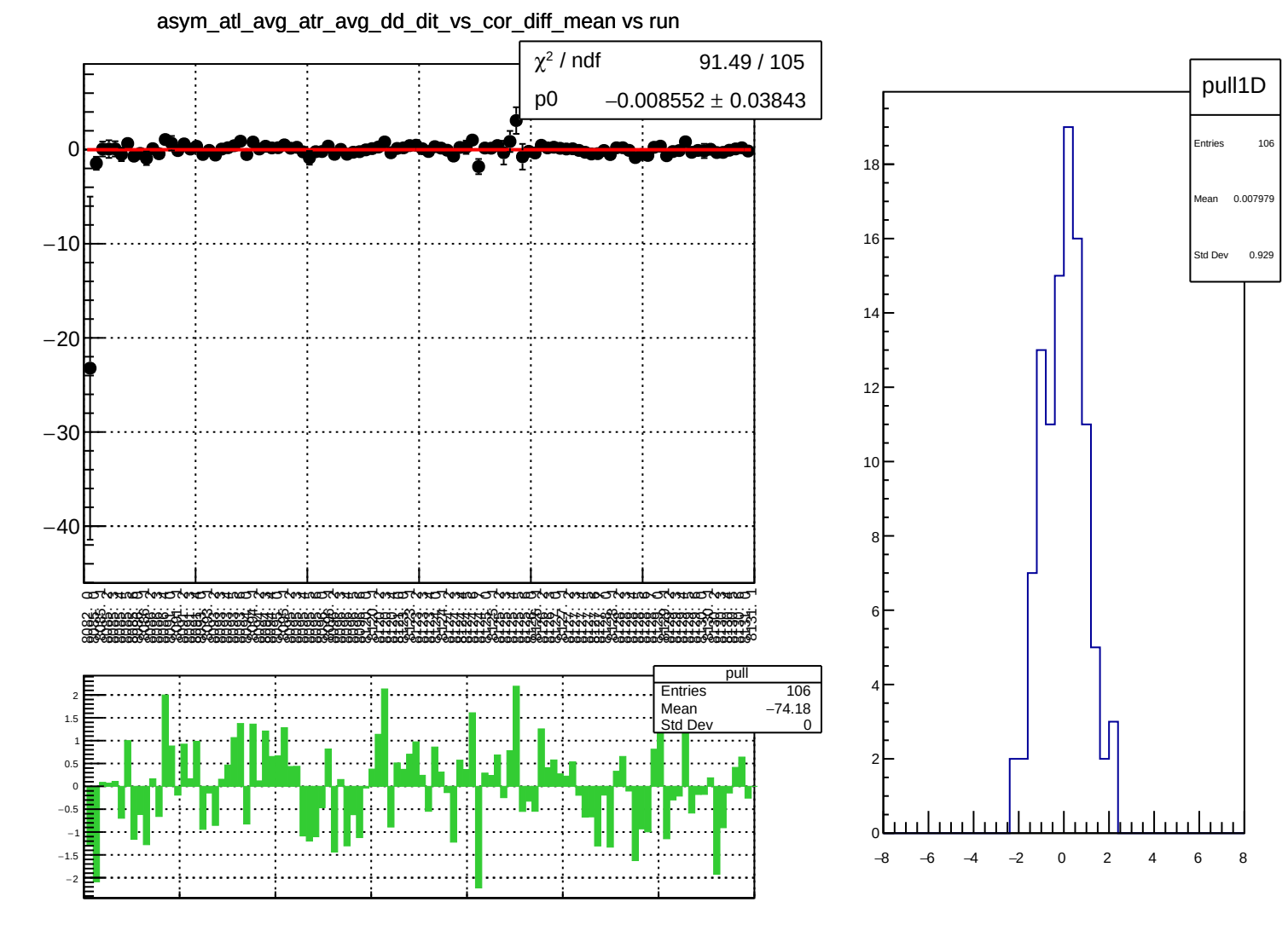

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 78.84 / 105
p0 3265 ± 1732
80000
60000
40000
20000
0
−20000
−40000
pull
Entries 106
Mean 9600
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

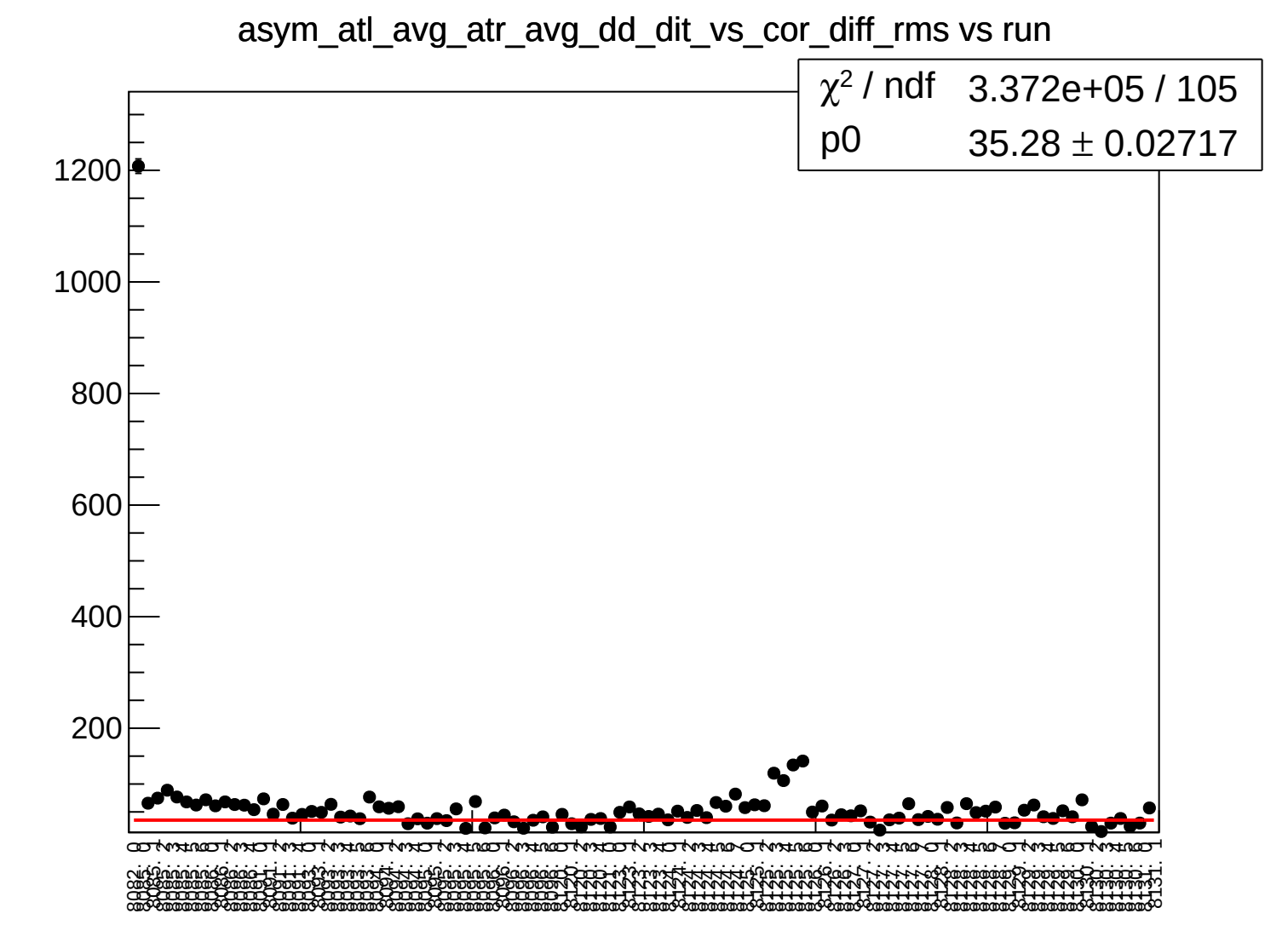

pull1D
Entries 106
Mean 0.0001338
Std Dev 0.8624
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

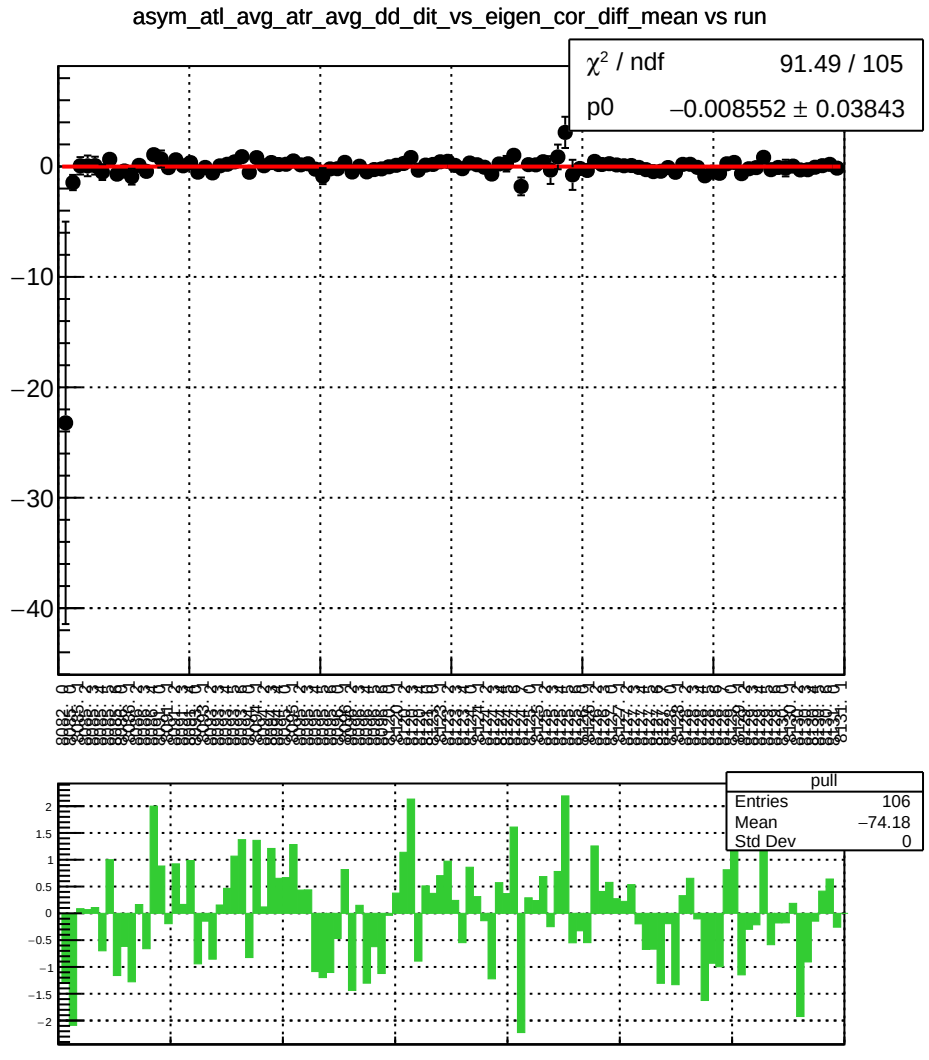

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 2110 / 105
p0 1741 ± 1.225
2100
2000
1900
1800
1700
1600

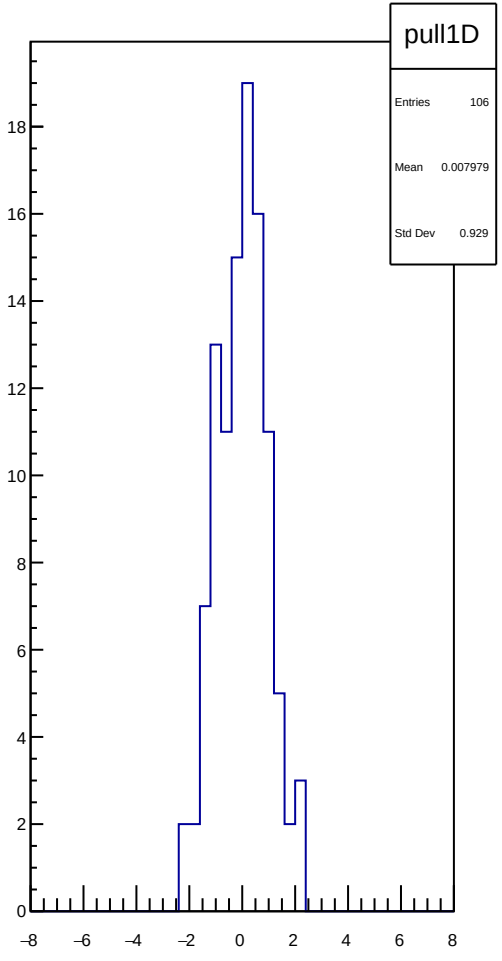

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 70.61 / 105
p0 −9.565e−14 ± 1.496e−13
pull
Entries 106
Mean 152.7
Std Dev 0
pull1D
Entries 106
Mean 0.03933
Std Dev 0.8152

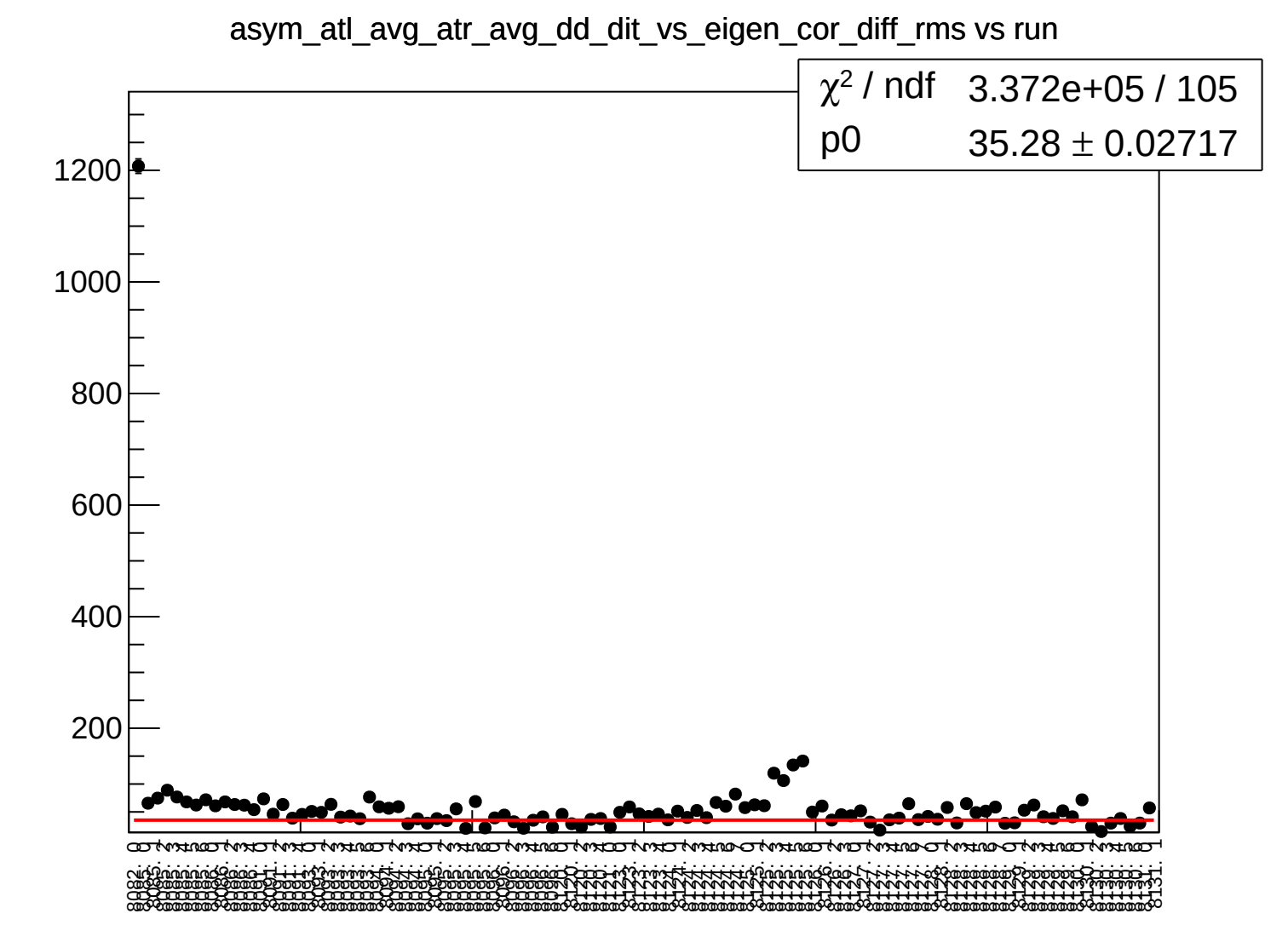

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.168e+06 / 105
p0 9.777e−11 ± 1.058e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

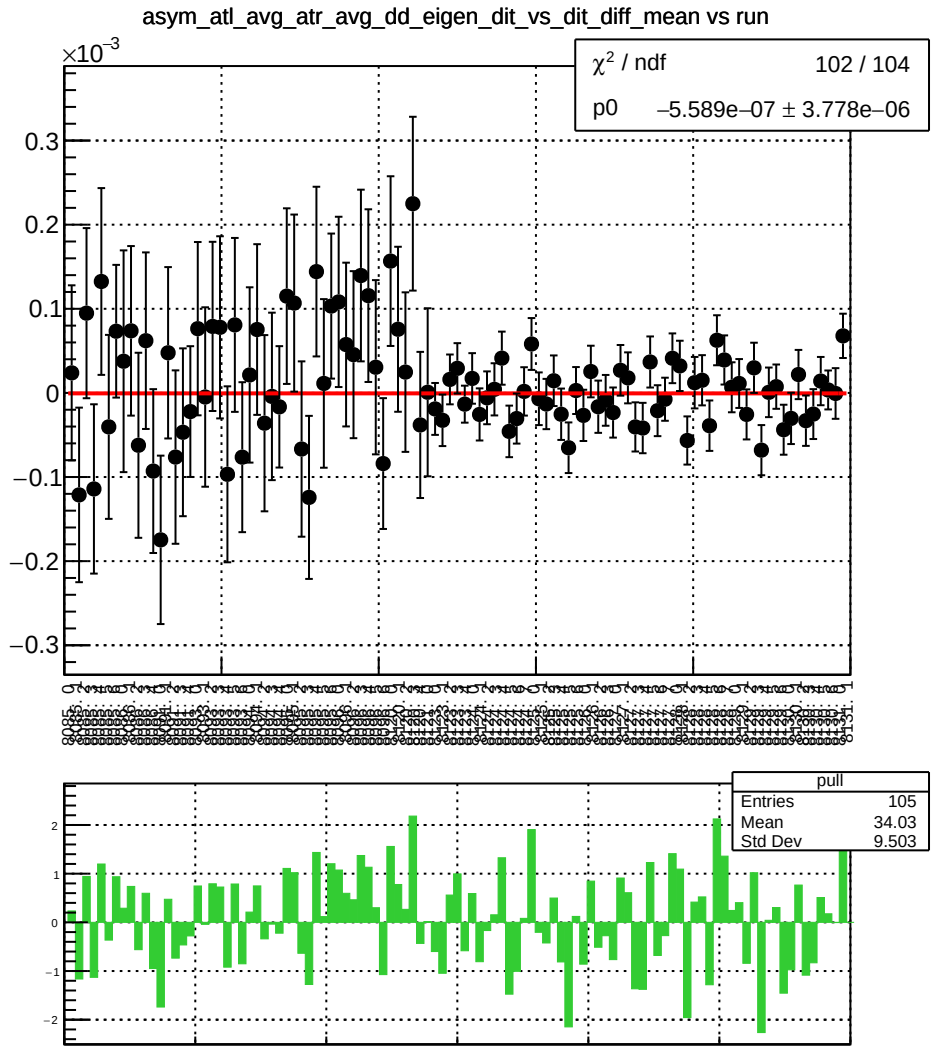

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 91.49 / 105
p0 −0.008552 ± 0.03843
0
−10
−20
−30
−40
pull
Entries 106
Mean −74.18
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 106
Mean 0.007979
Std Dev 0.929
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

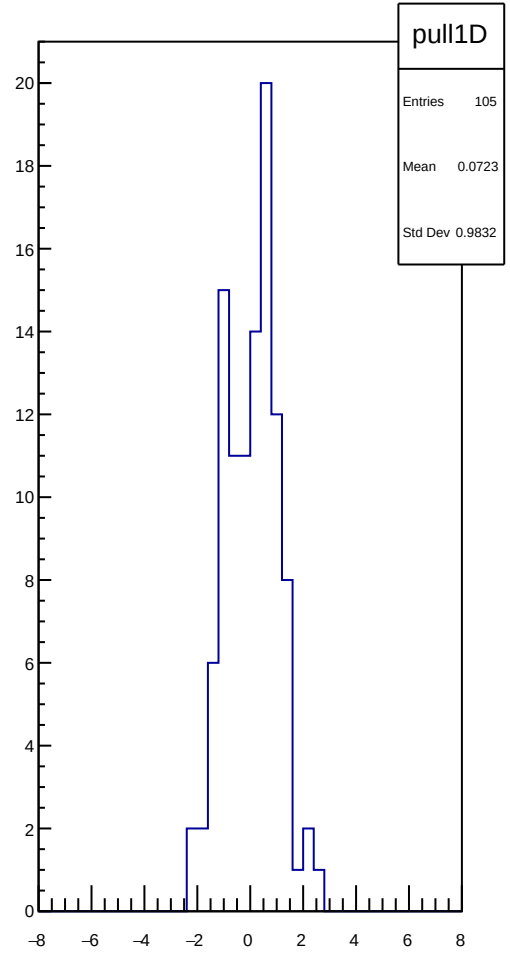

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.372e+05 / 105
p0 35.28 ± 0.02717
1200
1000
800
600
400
200

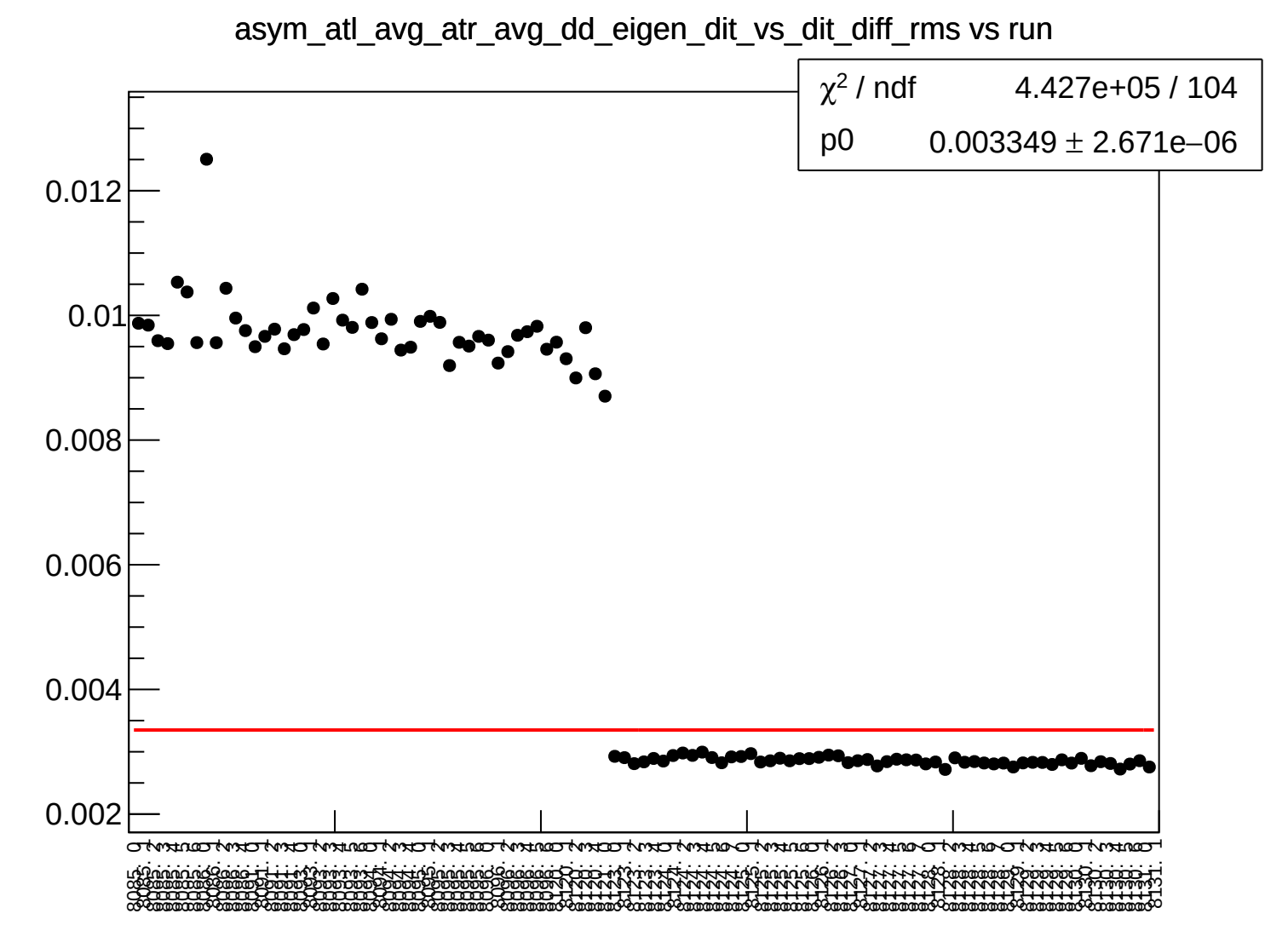

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.49 / 105
p0 −0.008552 ± 0.03843
0
−10
−20
−30
−40
pull
Entries 106
Mean −74.18
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

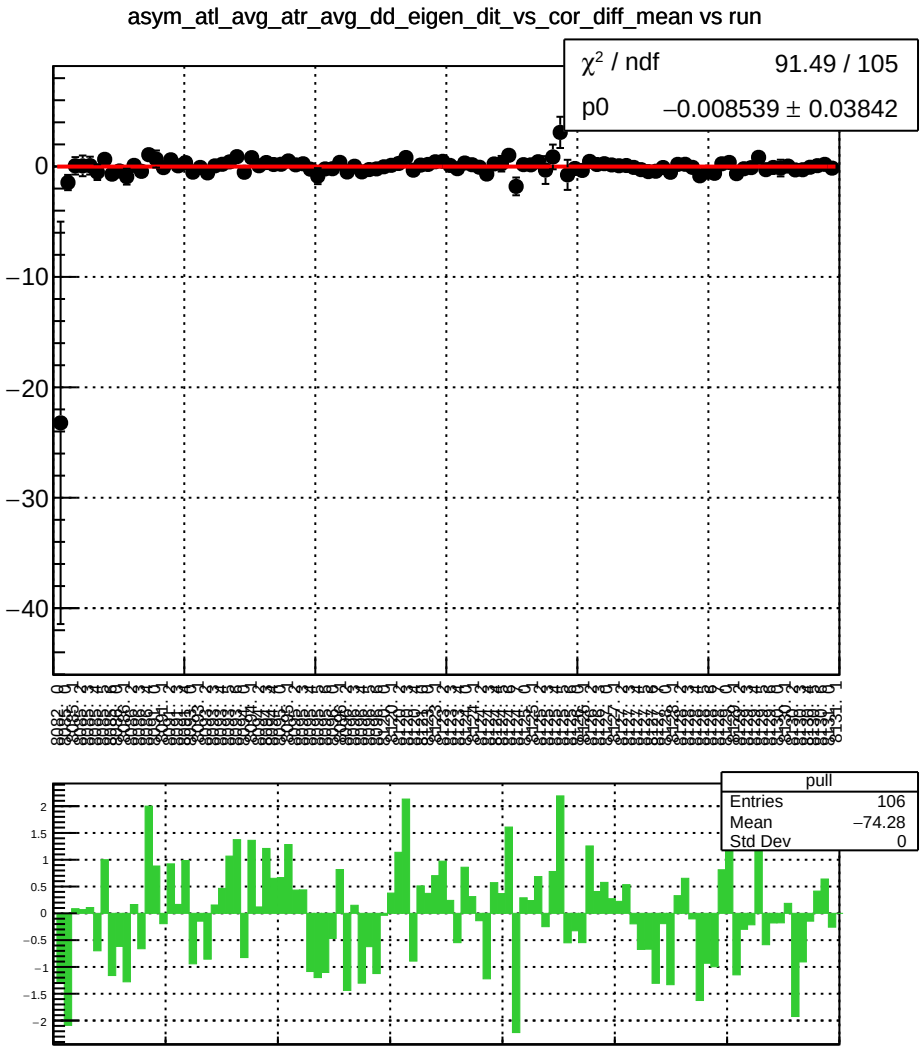

pull1D
Entries 106
Mean 0.007979
Std Dev 0.929
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

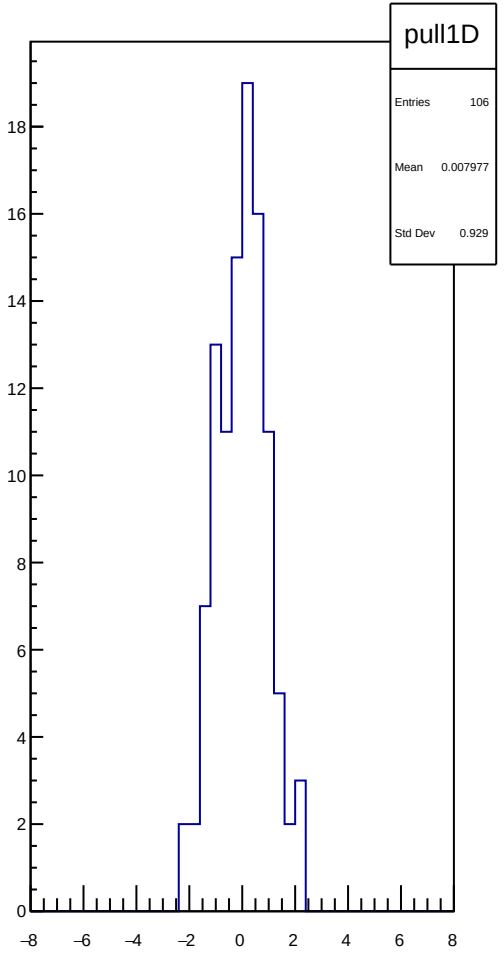

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.372e+05 / 105
p0 35.28 ± 0.02717
1200
1000
800
600
400
200

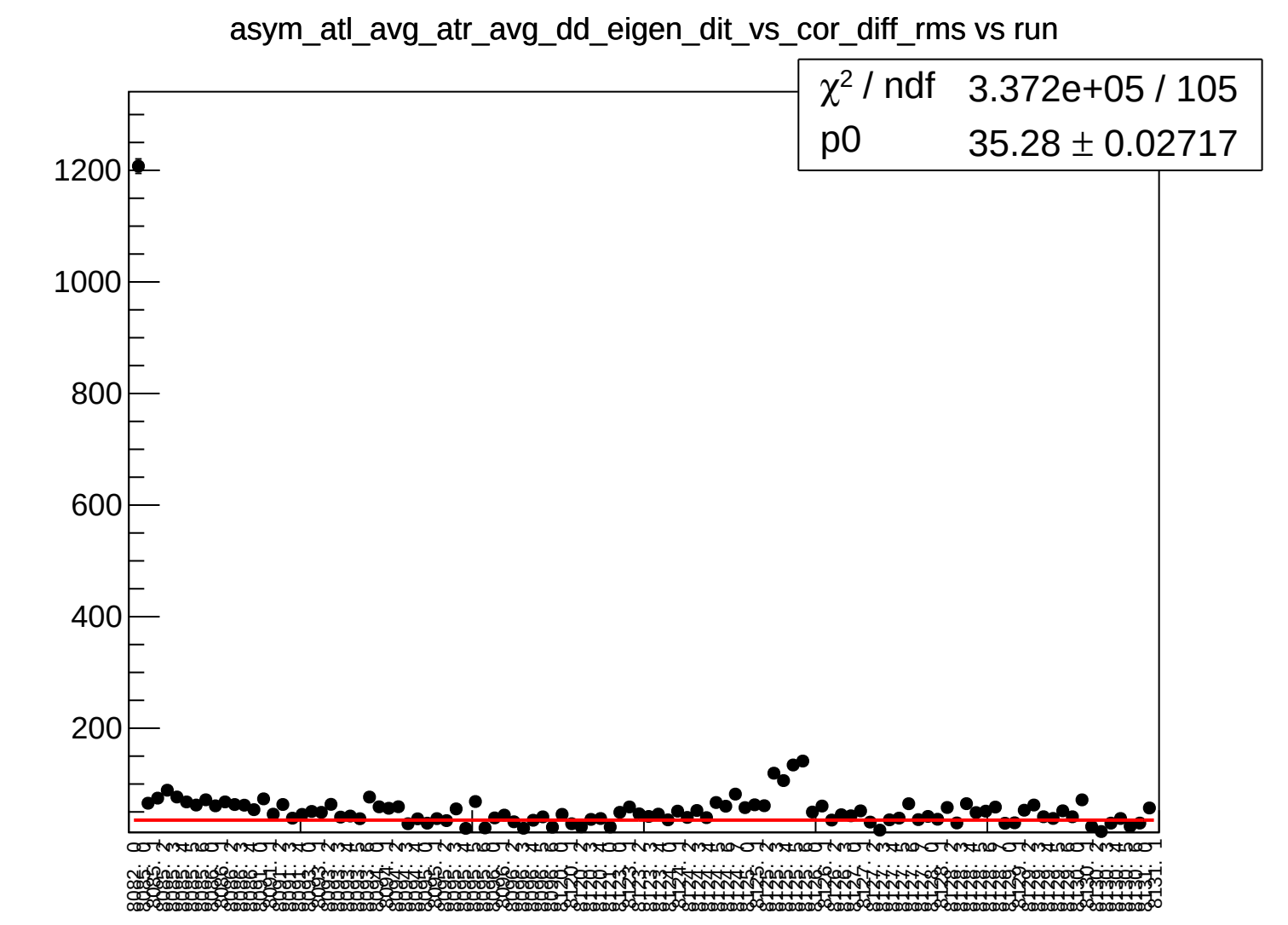

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 102 / 104
p0 −5.589e−07 ± 3.778e−06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 105
Mean 34.03
Std Dev 9.503
2
1
0
−1
−2

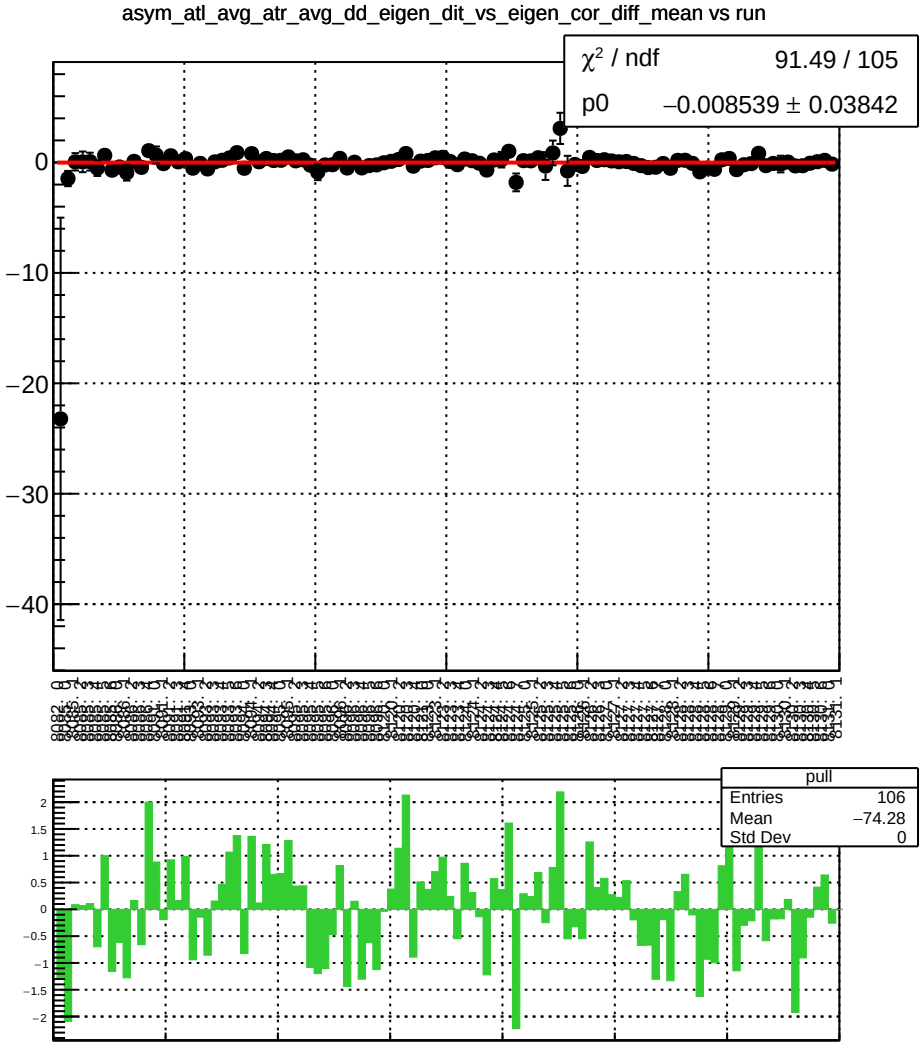

pull1D
Entries 105
Mean 0.0723
Std Dev 0.9832
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

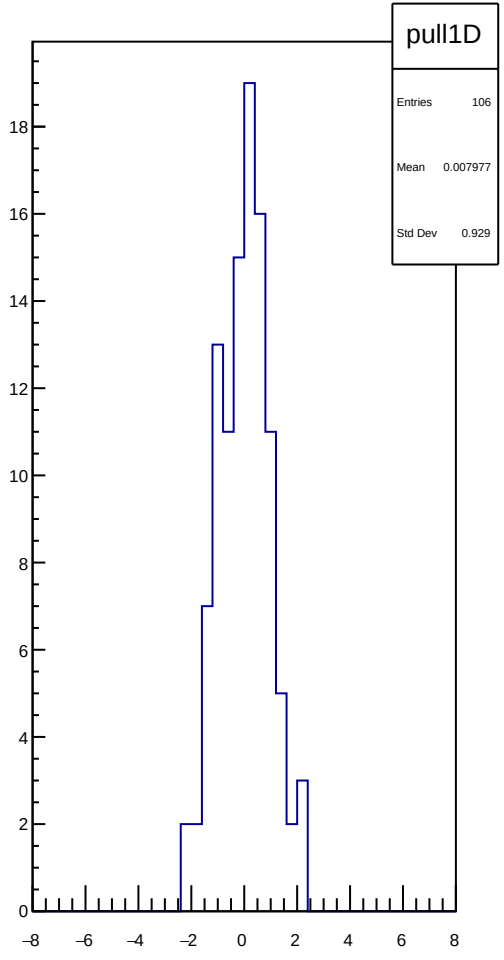

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.427e+05 / 104
p0 0.003349 ± 2.671e−06
0.012
0.01
0.008
0.006
0.004
0.002

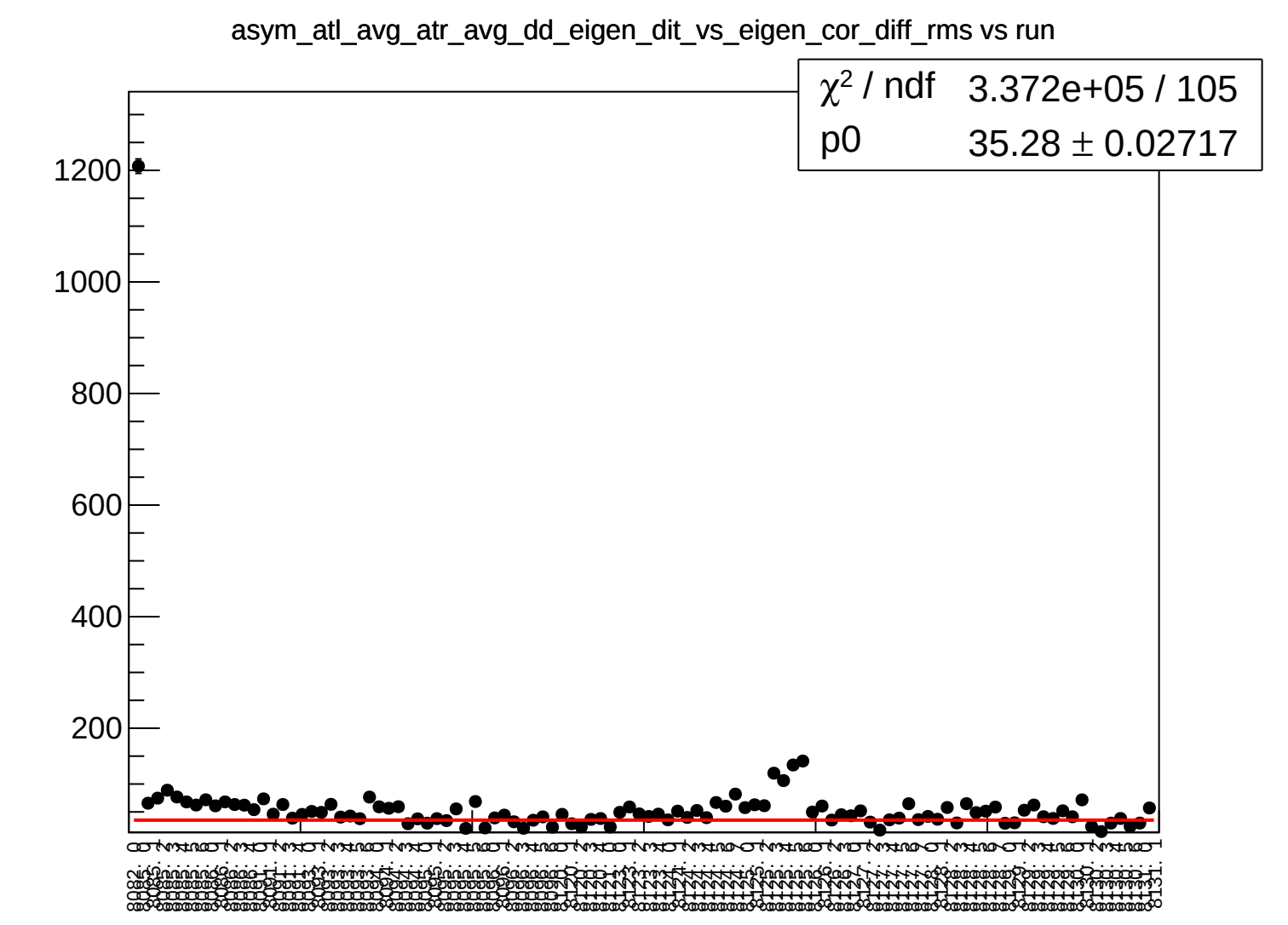

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.49 / 105
p0 −0.008539 ± 0.03842
0
−10
−20
−30
−40
pull
Entries 106
Mean −74.28
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

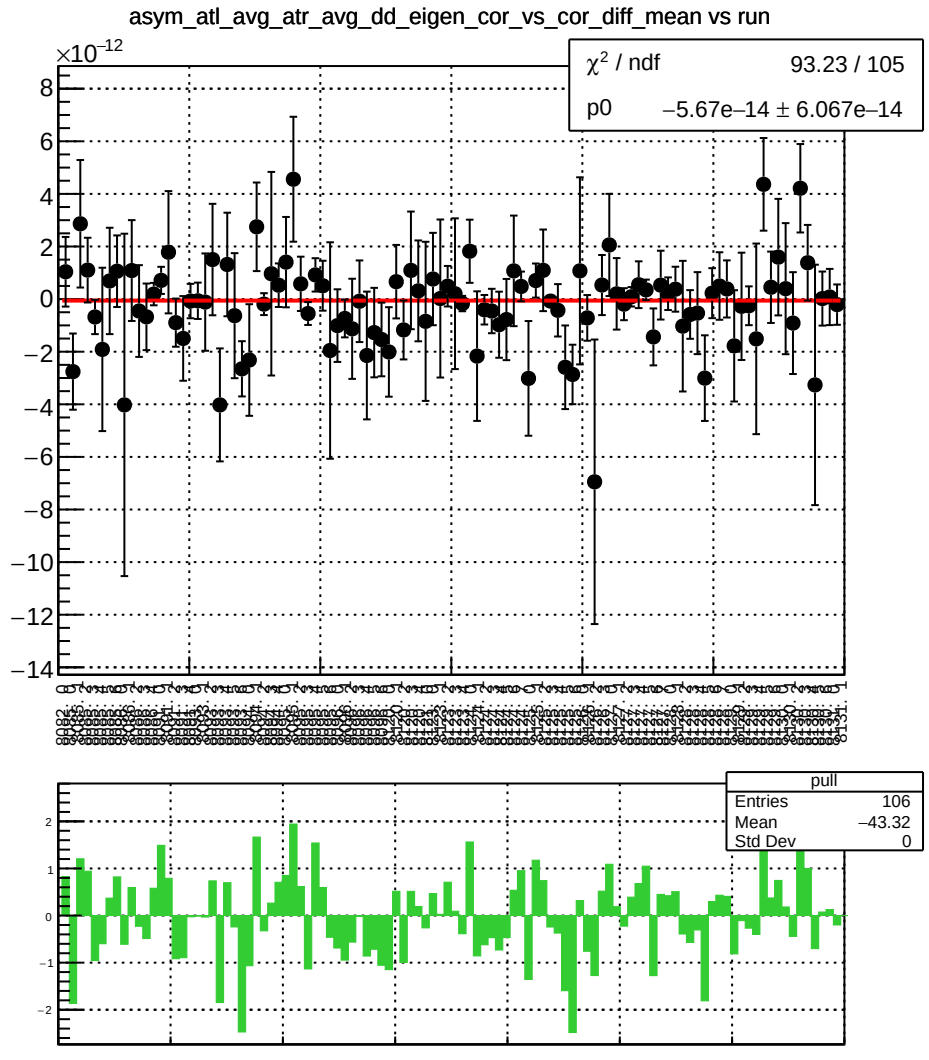

pull1D
Entries 106
Mean 0.007977
Std Dev 0.929
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

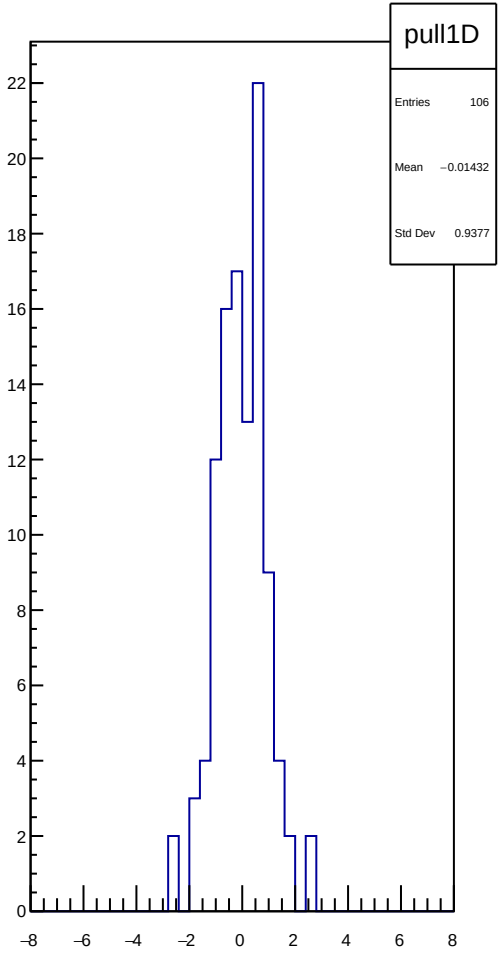

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.372e+05 / 105
p0 35.28 ± 0.02717
1200
1000
800
600
400
200

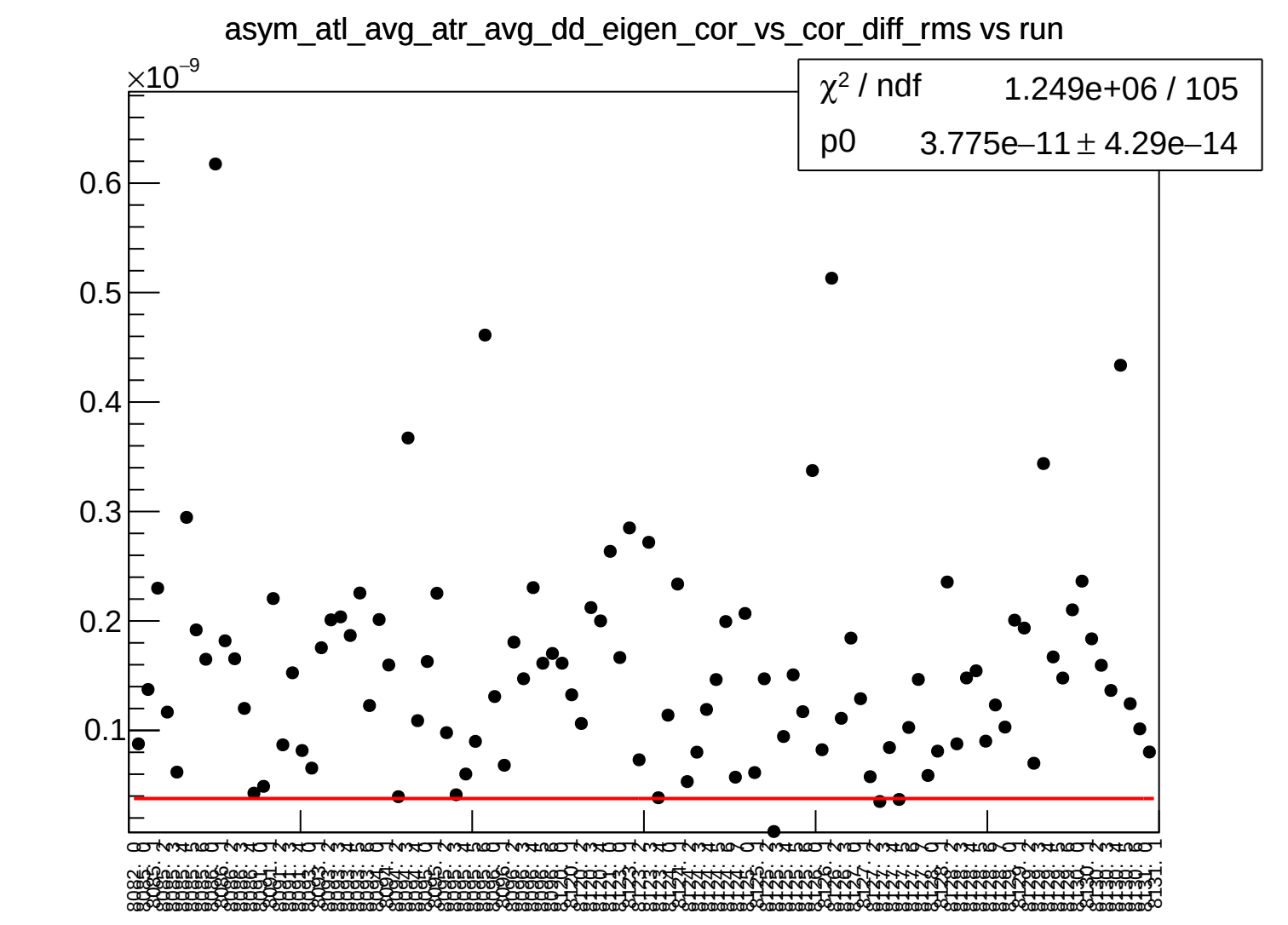

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.49 / 105
p0 −0.008539 ± 0.03842
0
−10
−20
−30
−40
pull
Entries 106
Mean −74.28
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

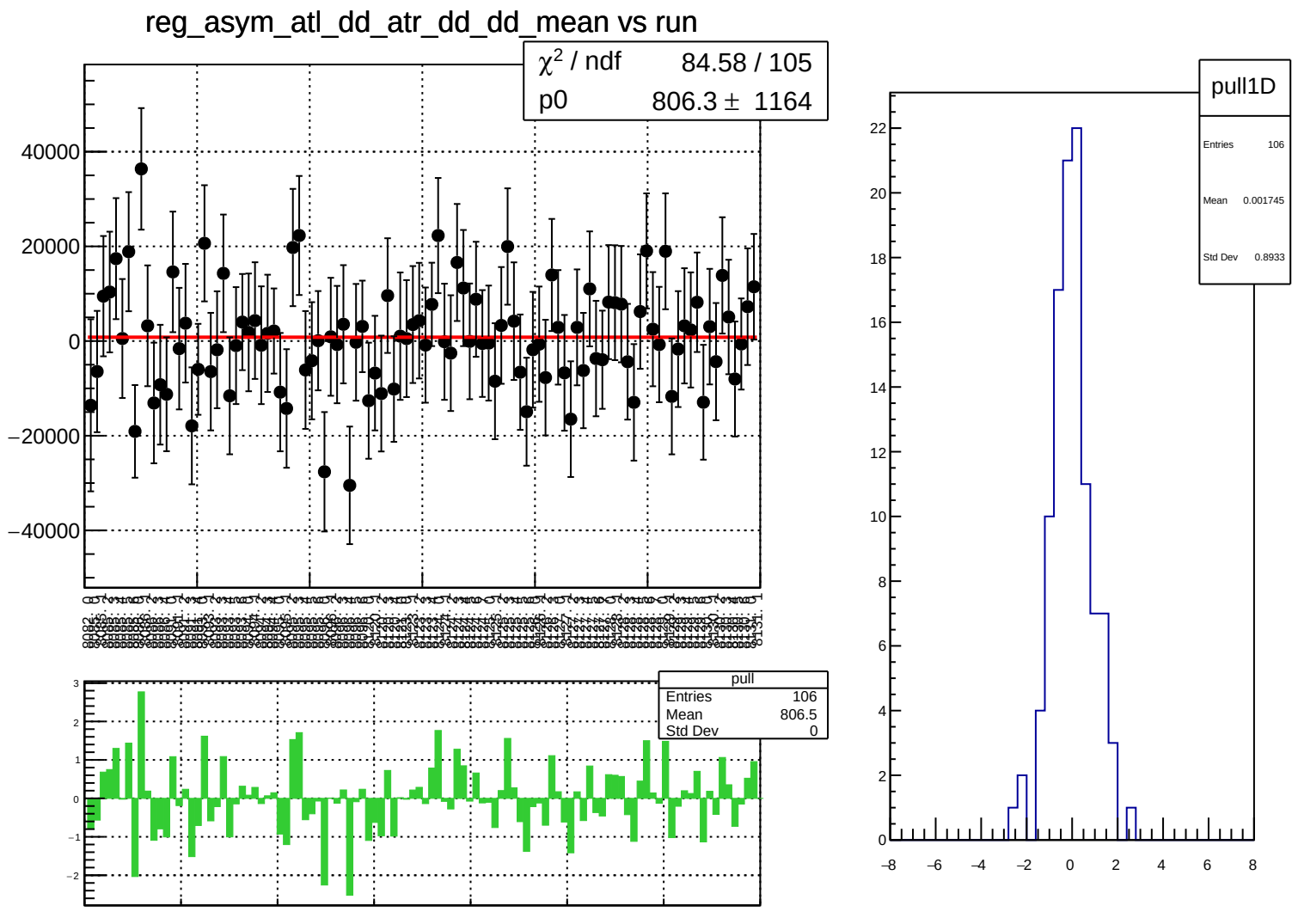

pull1D
Entries 106
Mean 0.007977
Std Dev 0.929
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

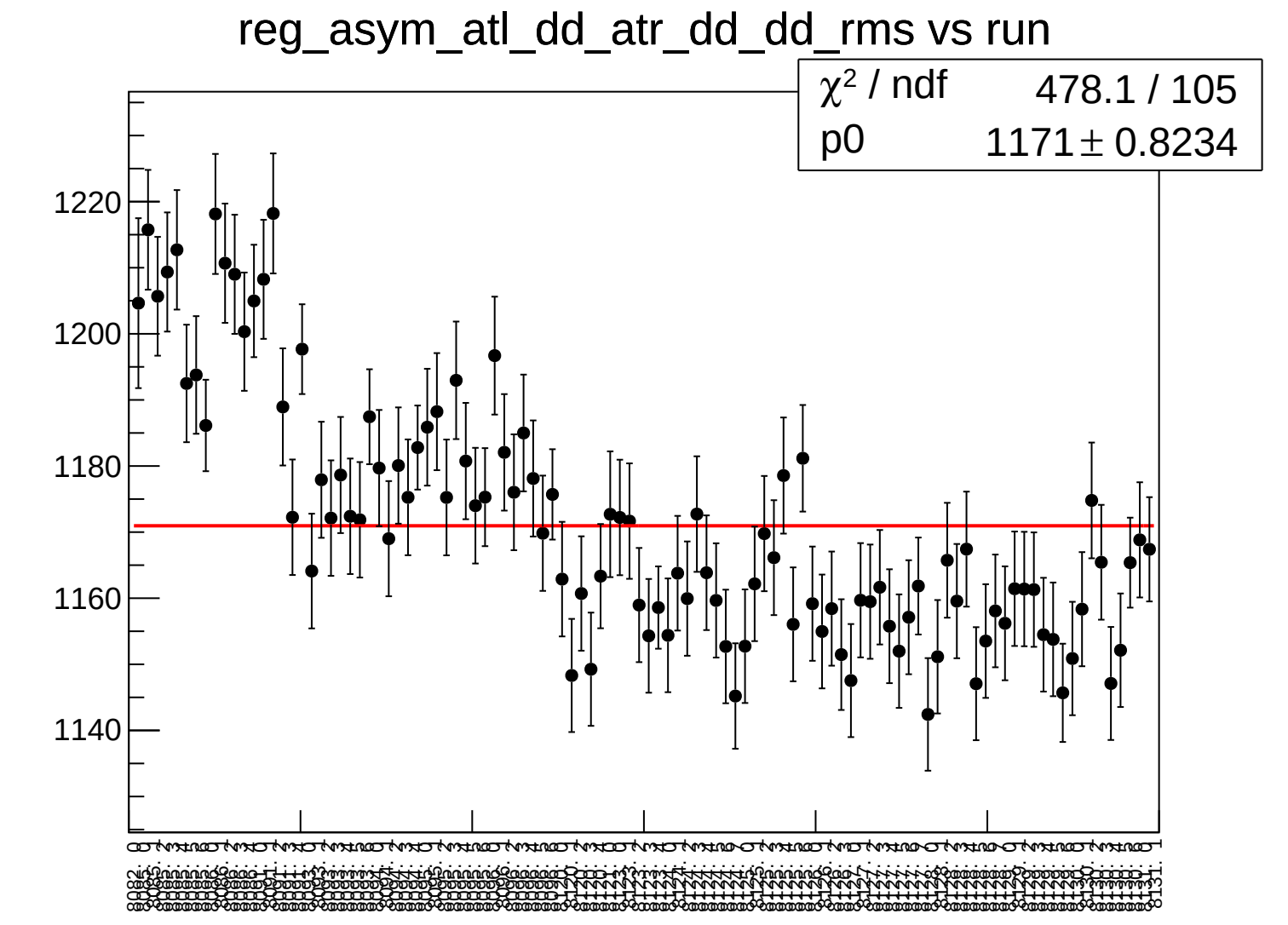

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.372e+05 / 105
p0 35.28 ± 0.02717
1200
1000
800
600
400
200

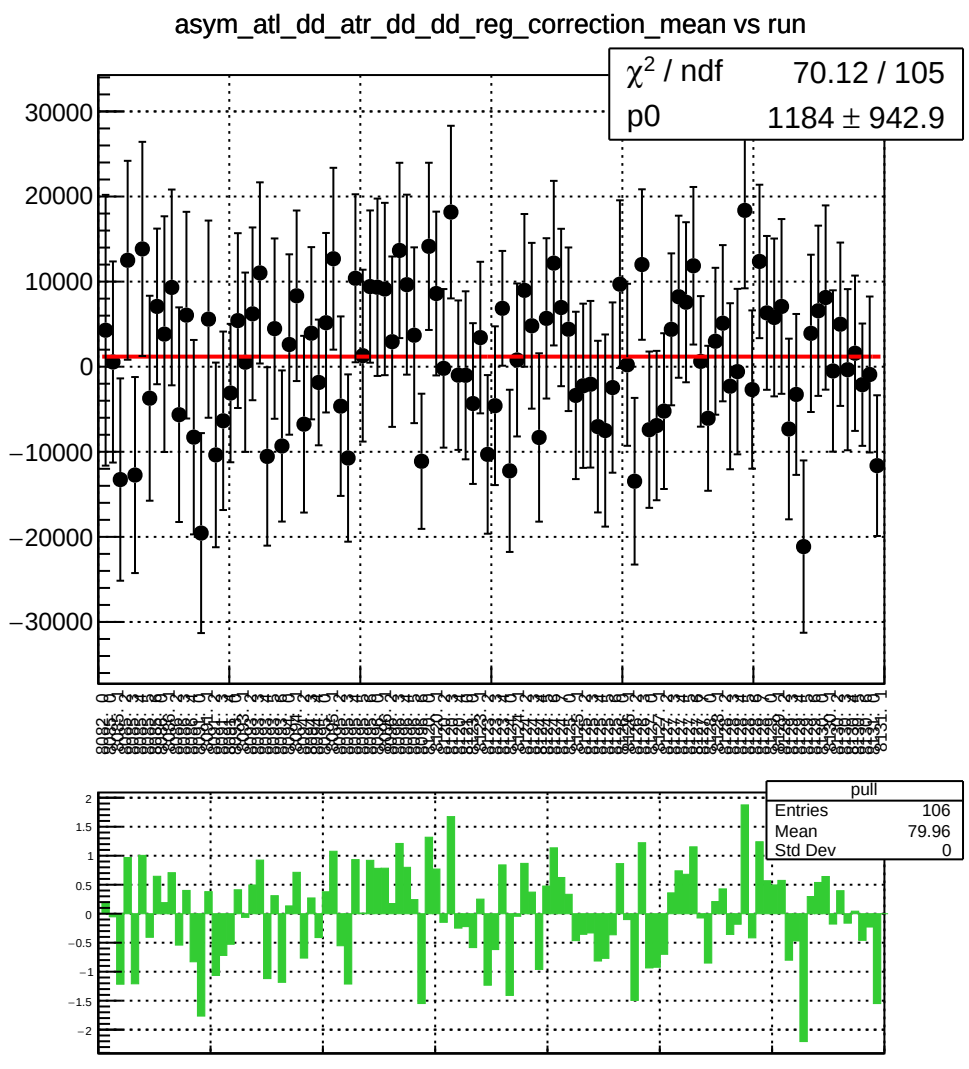

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.23 / 105
p0 −5.67e−14 ± 6.067e−14
pull
Entries 106
Mean −43.32
Std Dev 0

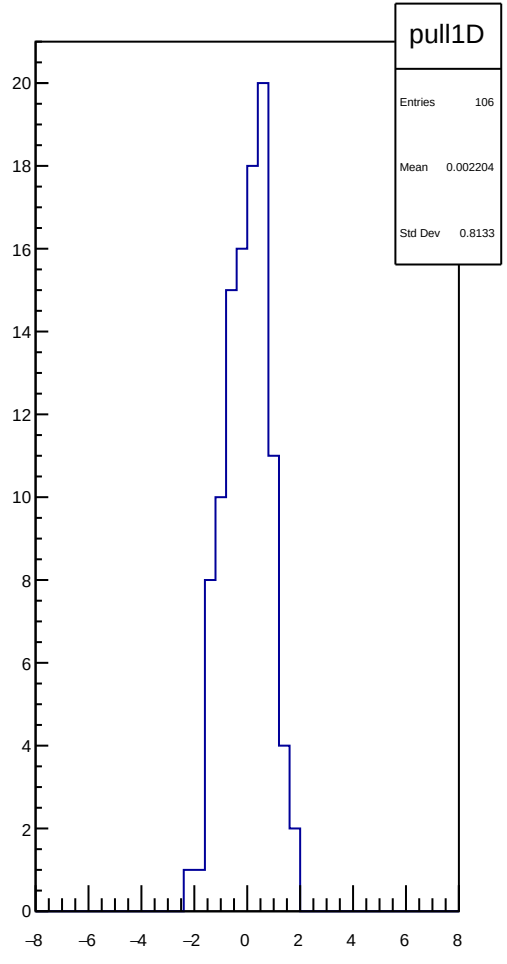

pull1D
Entries 106
Mean −0.01432
Std Dev 0.9377

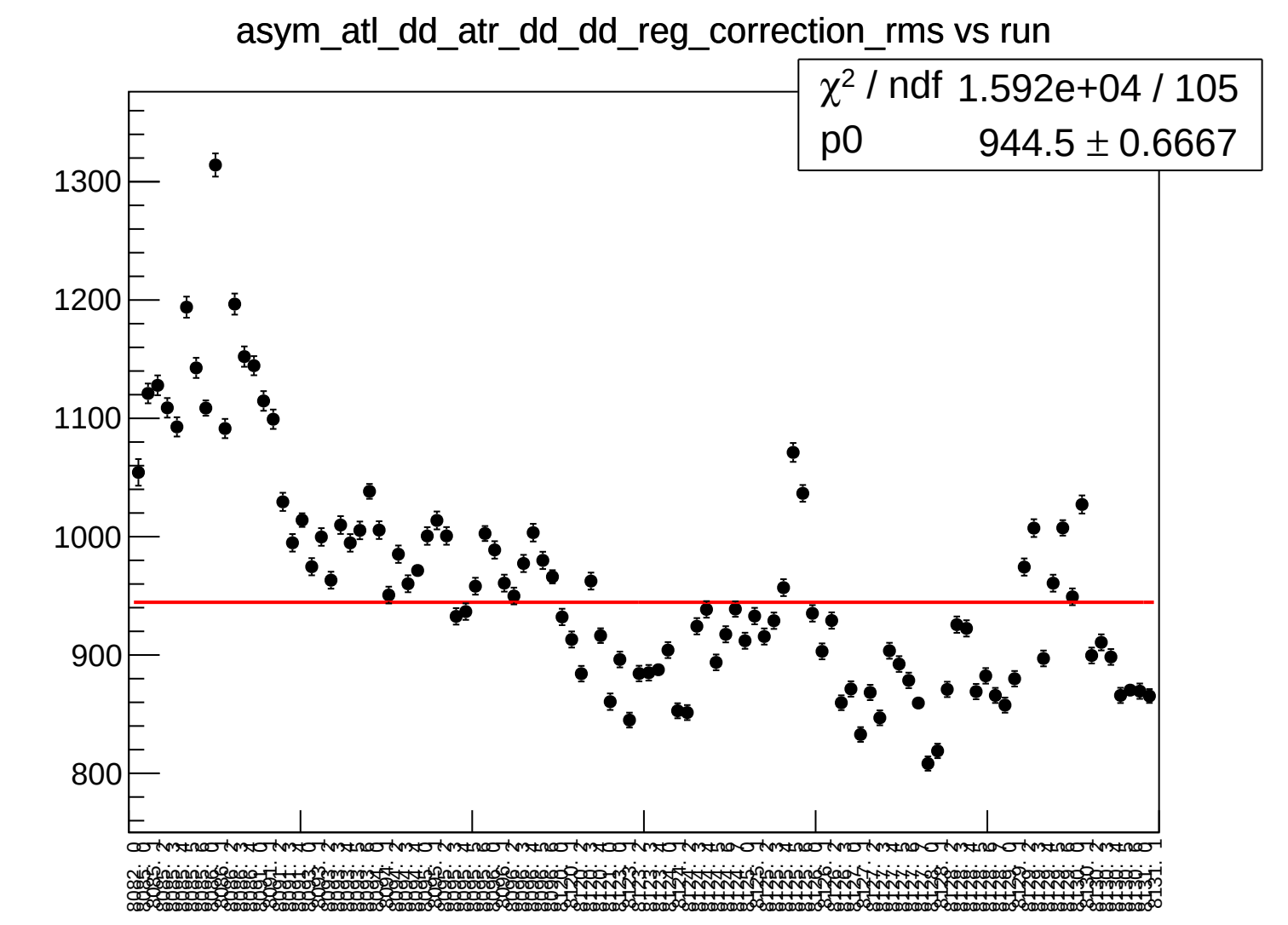

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.249e+06 / 105
p0 3.775e−11 ± 4.29e−14
0.6
0.5
0.4
0.3
0.2
0.1

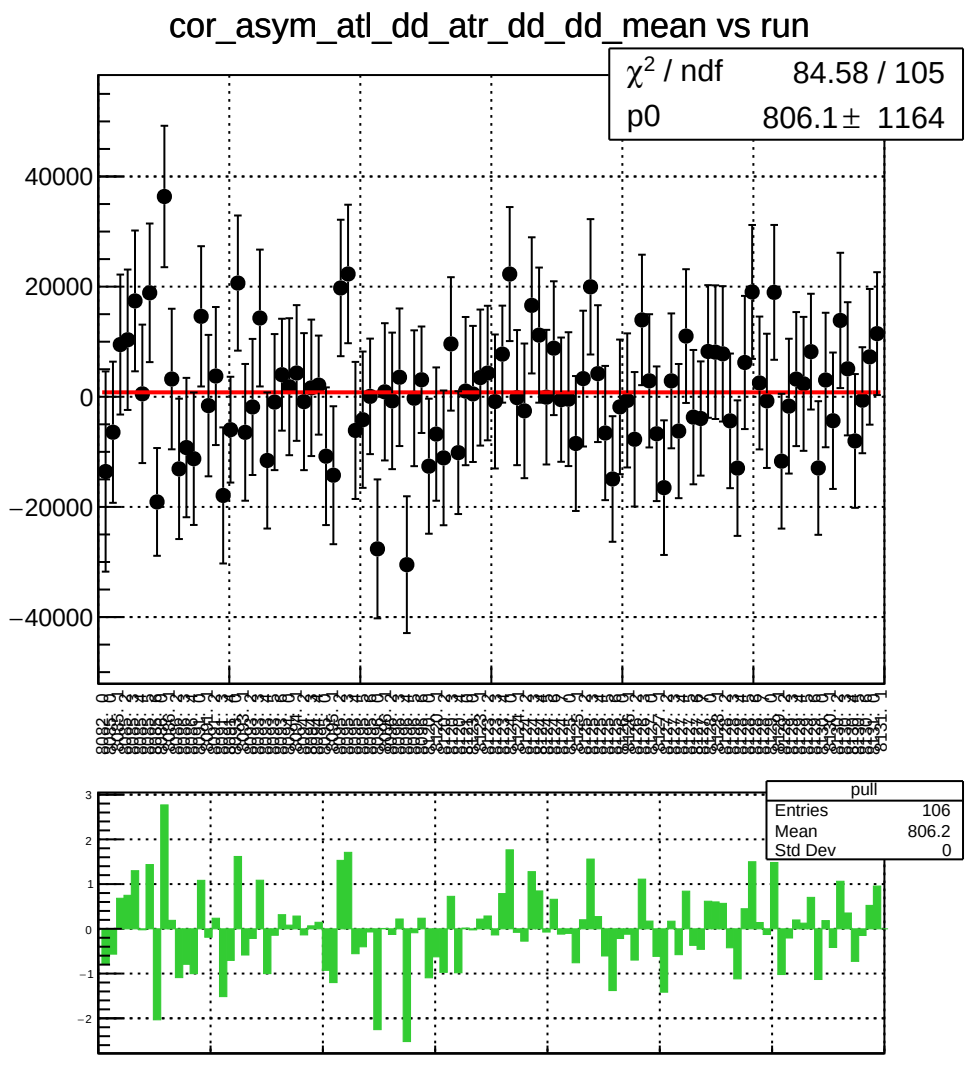

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 84.58 / 105
p0 806.3 ± 1164
40000
20000
0
−20000
−40000
pull
Entries 106
Mean 806.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 106
Mean 0.001745
Std Dev 0.8933
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

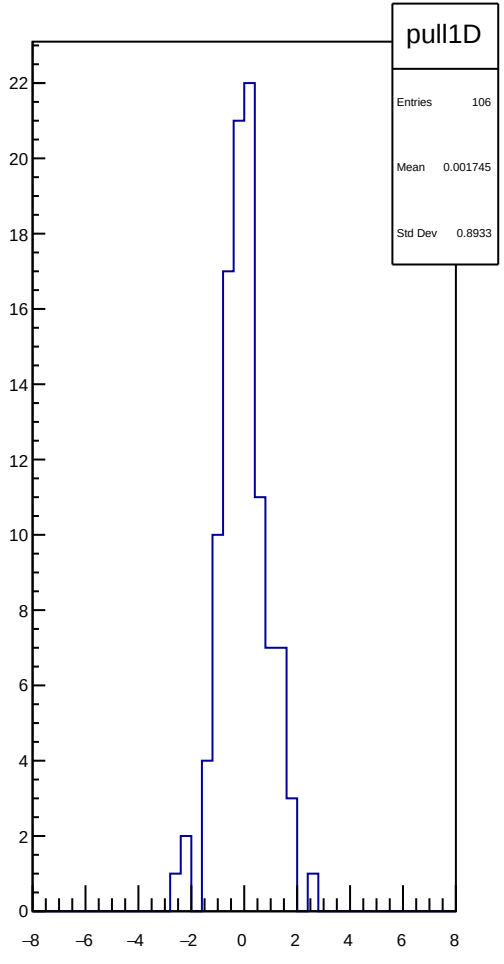

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 478.1 / 105
p0 1171 ± 0.8234
1220
1200
1180
1160
1140

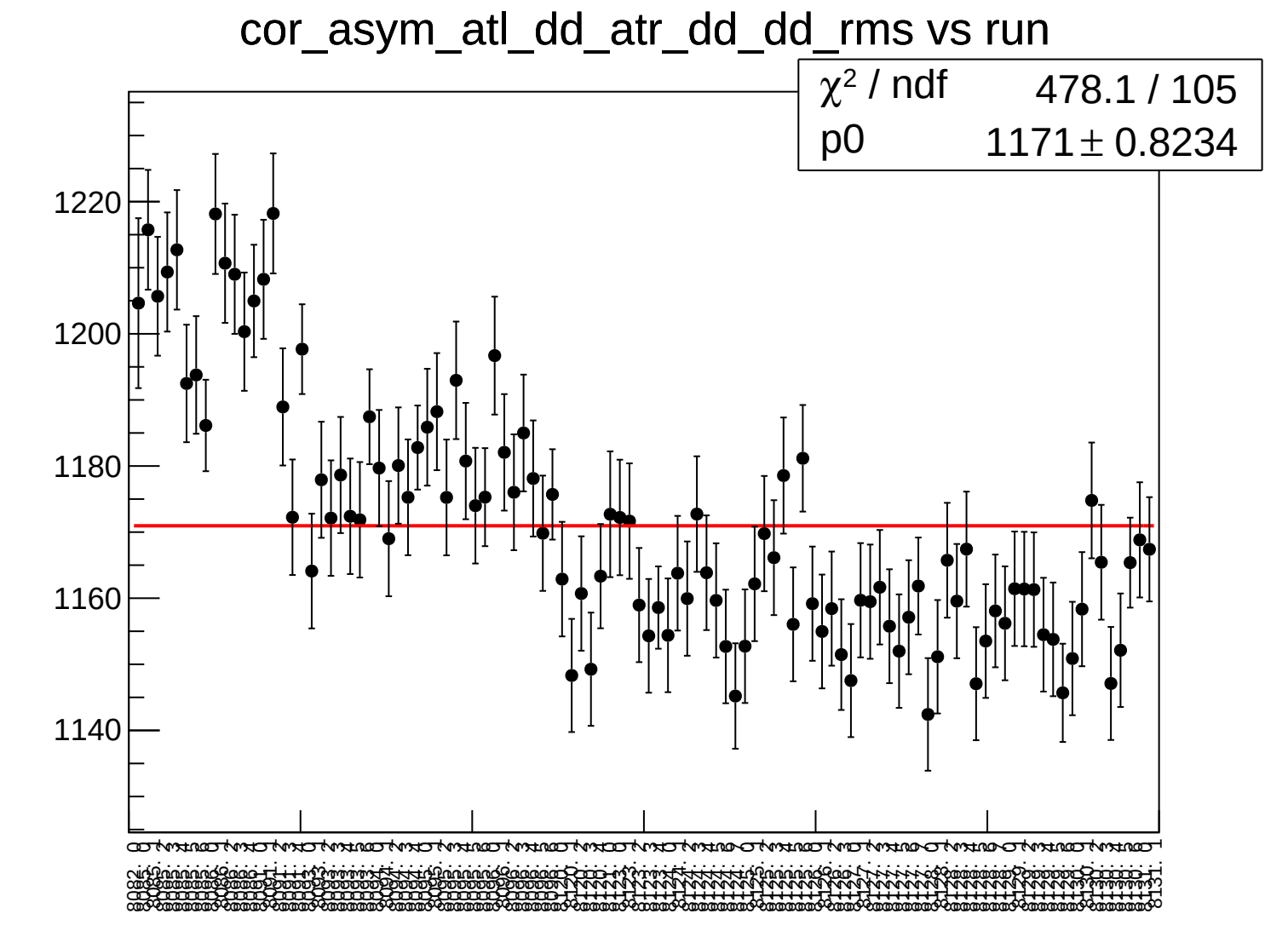

asym_atl_dd_atr_dd_dd_reg_correction_mean vs run
χ² / ndf 70.12 / 105
p0 1184 ± 942.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 106
Mean 79.96
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

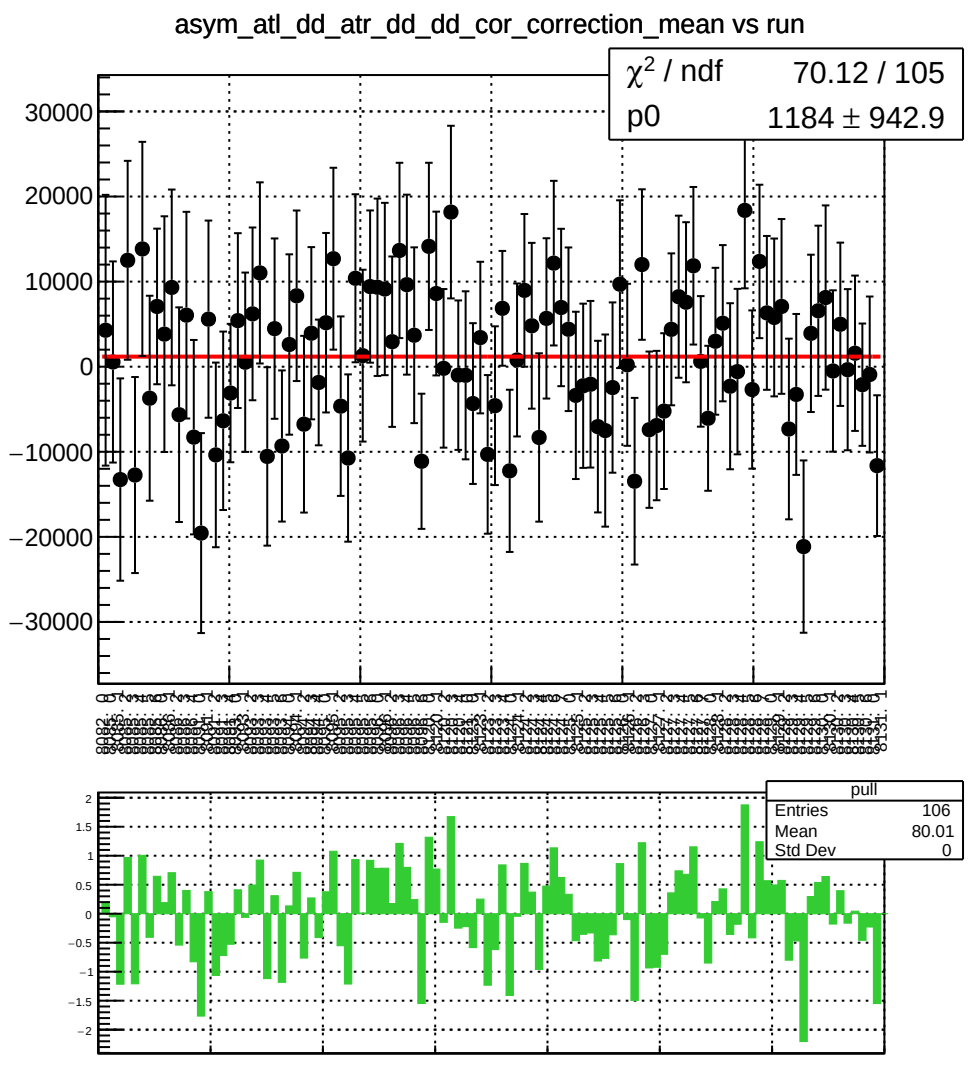

pull1D
Entries 106
Mean 0.002204
Std Dev 0.8133
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

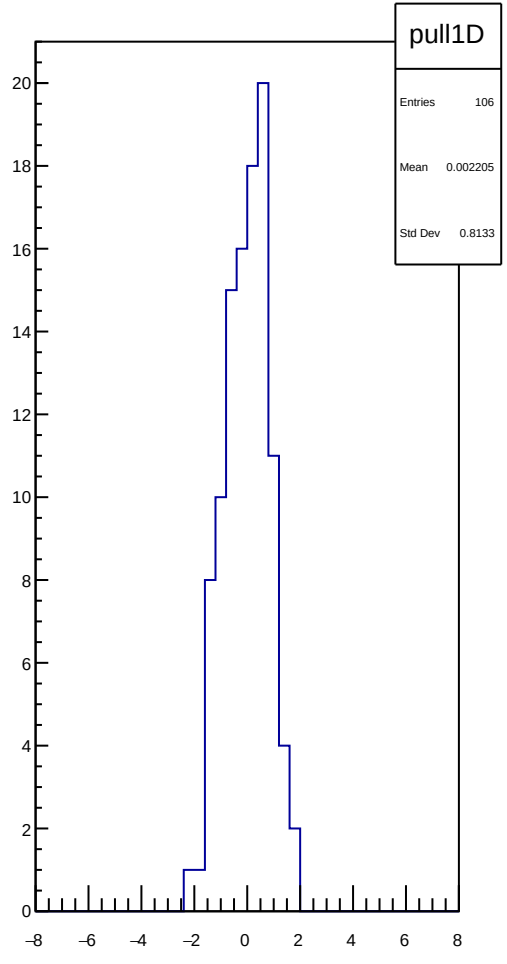

asym_atl_dd_atr_dd_dd_reg_correction_rms vs run
χ² / ndf 1.592e+04 / 105
p0 944.5 ± 0.6667
1300
1200
1100
1000
900
800

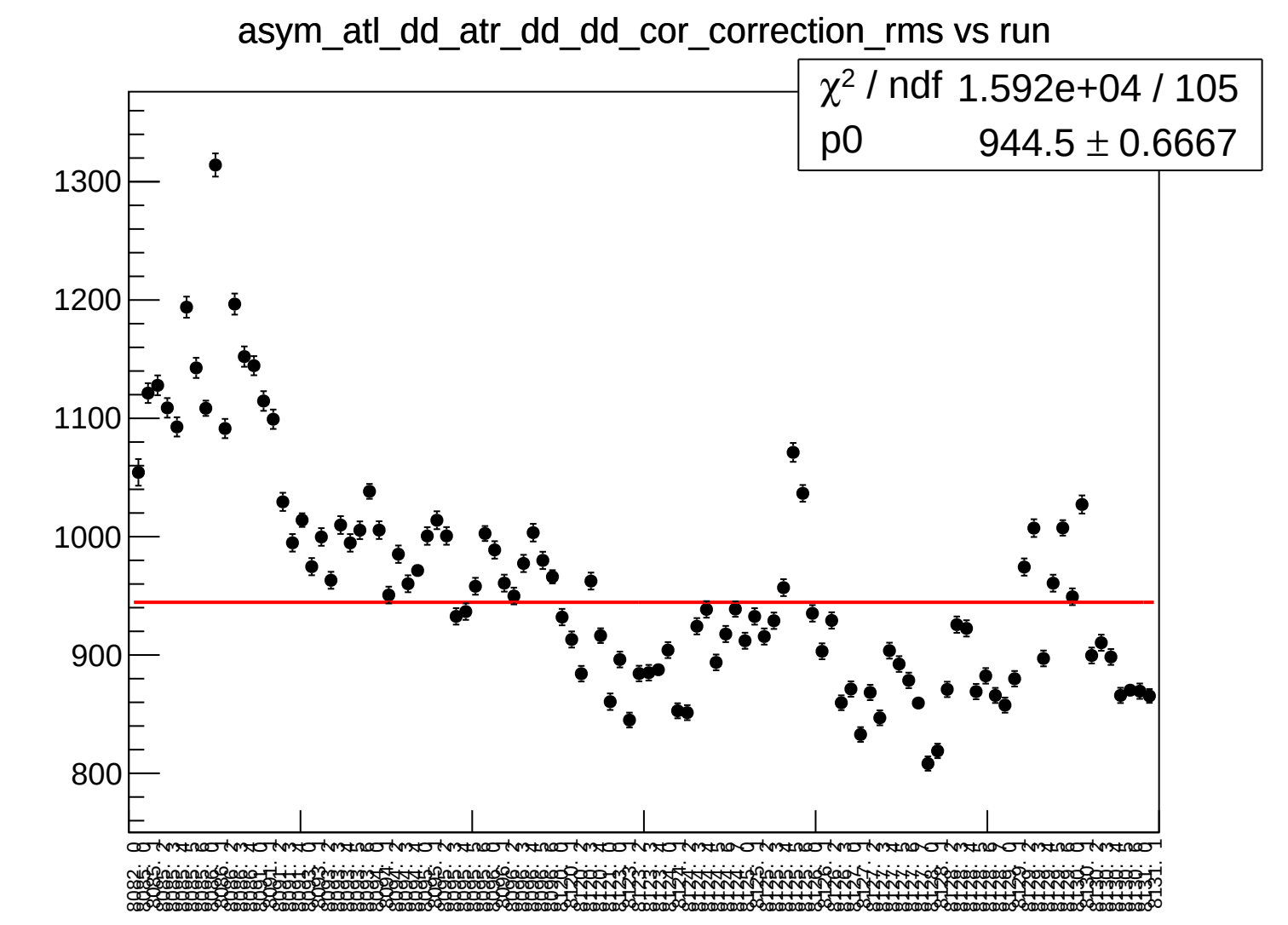

cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 84.58 / 105
p0 806.1 ± 1164
40000
20000
0
−20000
−40000
pull
Entries 106
Mean 806.2
Std Dev 0
3
2
1
0
−1
−2

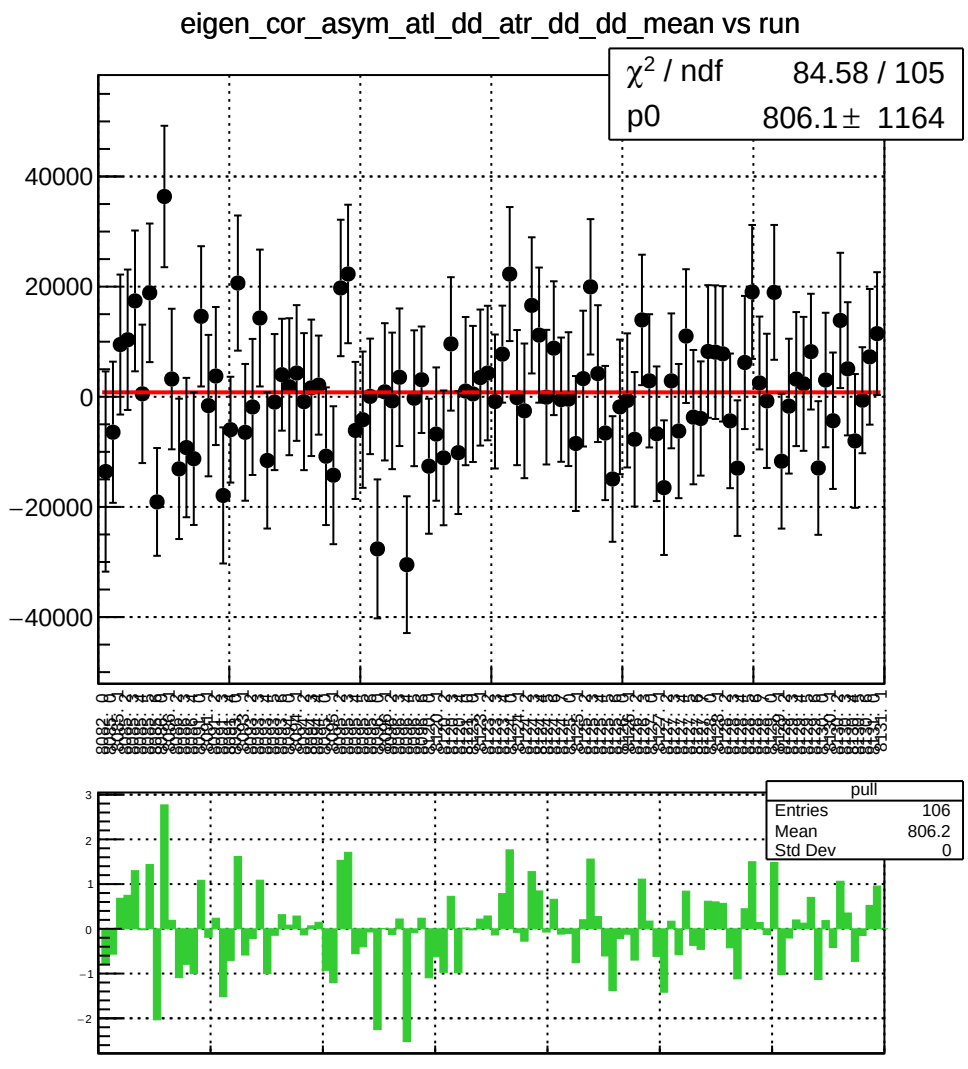

pull1D
Entries 106
Mean 0.001745
Std Dev 0.8933
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

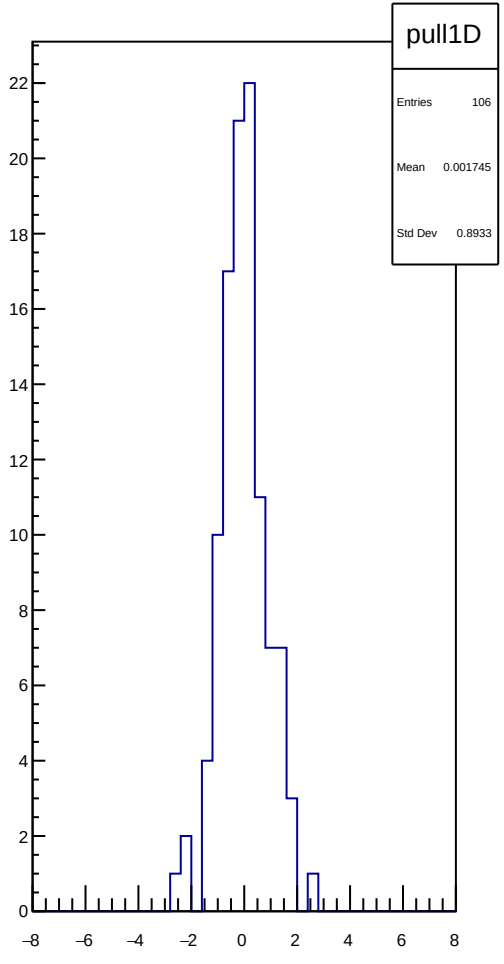

cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 478.1 / 105
p0 1171 ± 0.8234
1220
1200
1180
1160
1140

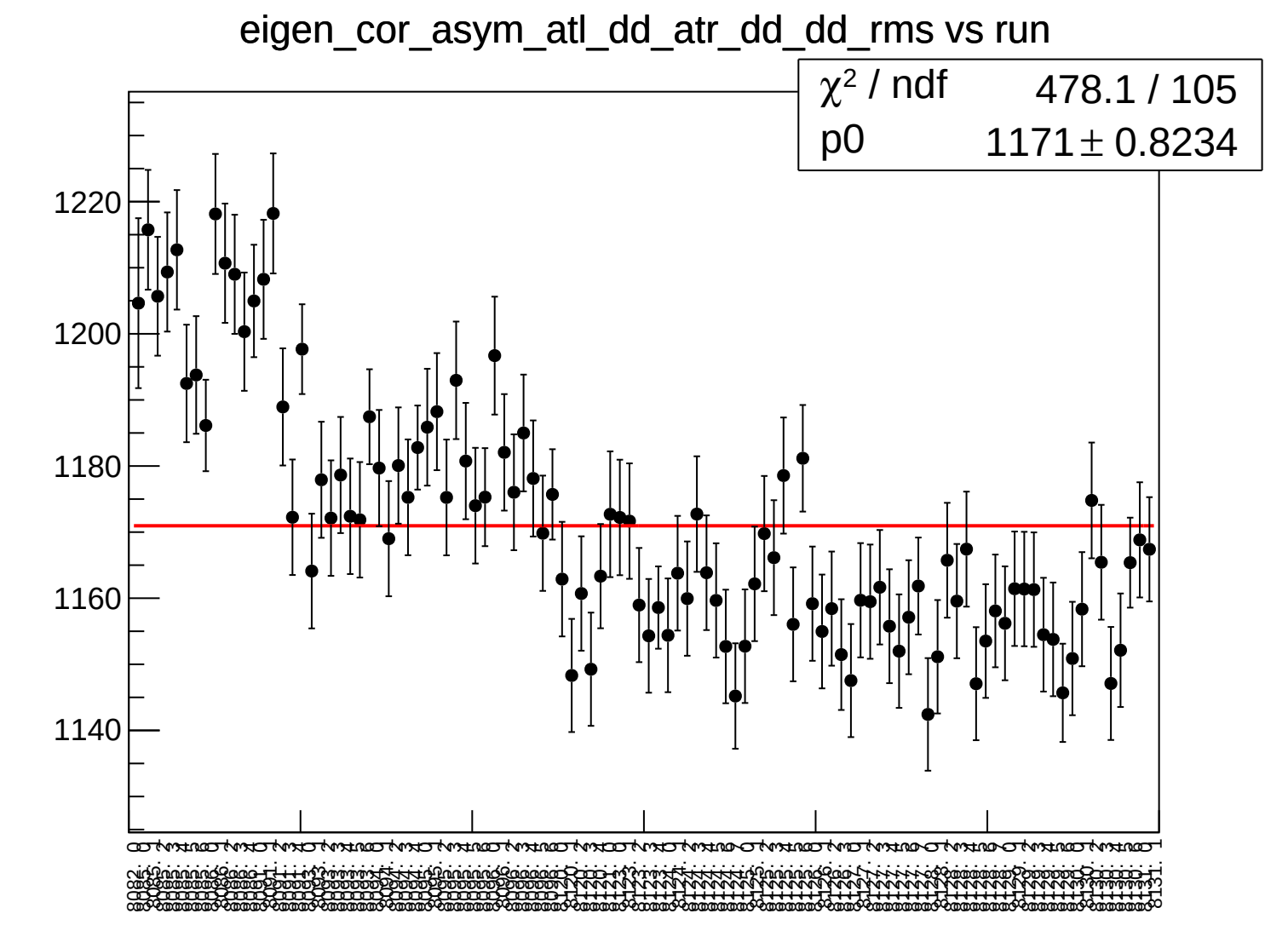

asym_atl_dd_atr_dd_dd_cor_correction_mean vs run
χ² / ndf 70.12 / 105
p0 1184 ± 942.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 106
Mean 80.01
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

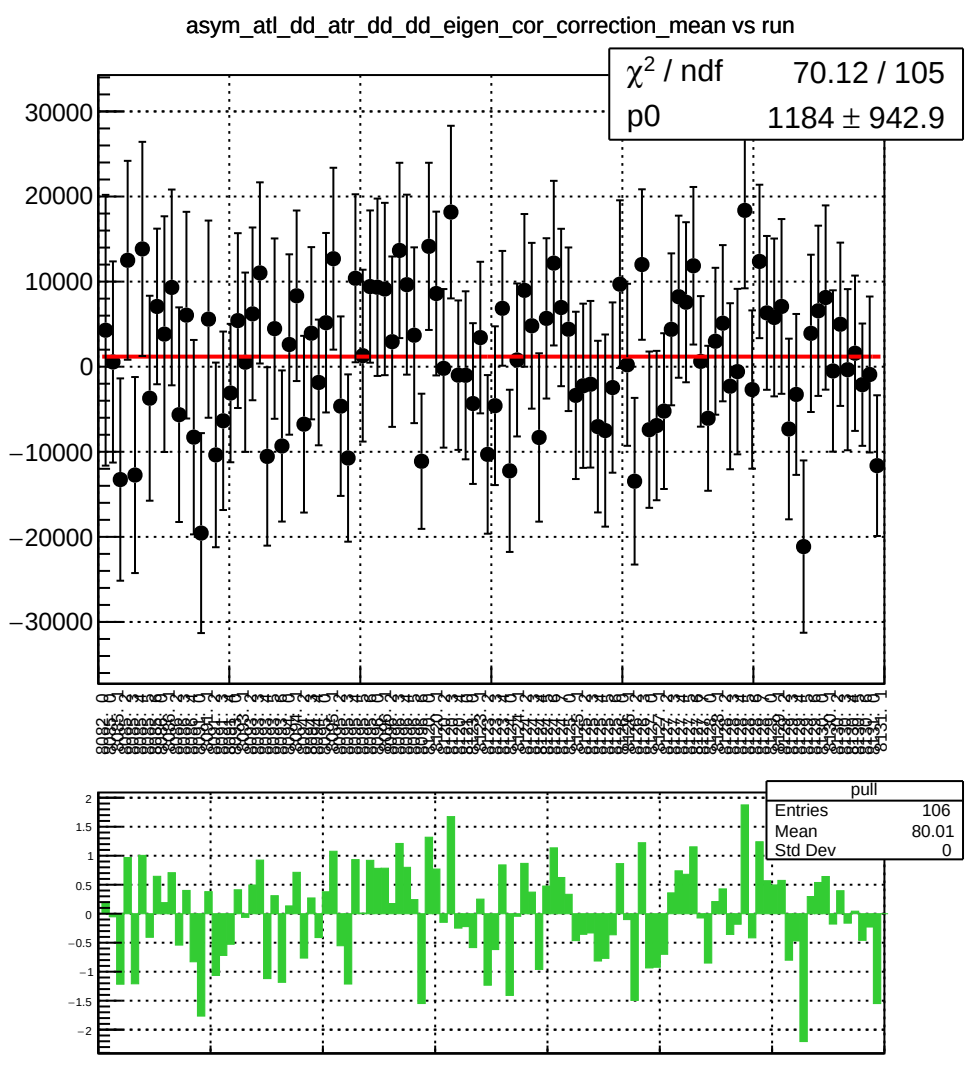

pull1D
Entries 106
Mean 0.002205
Std Dev 0.8133
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

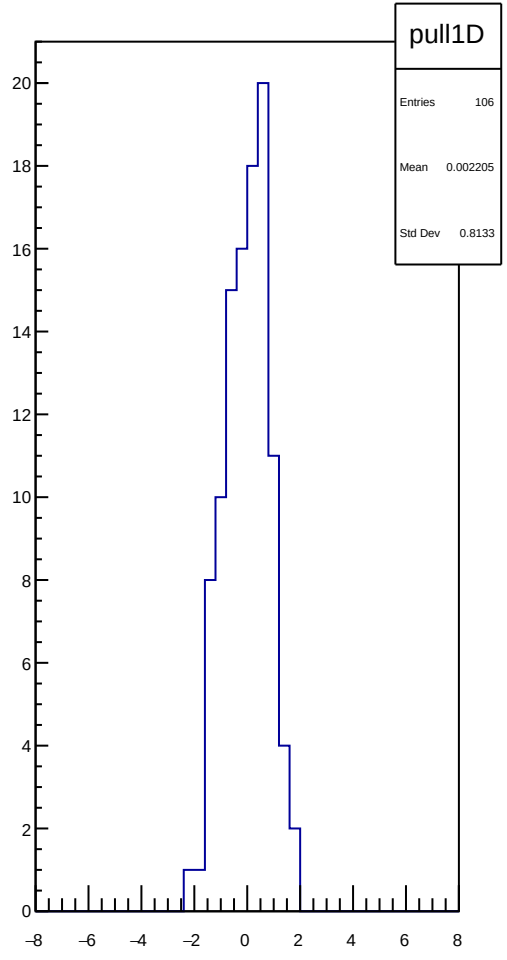

asym_atl_dd_atr_dd_dd_cor_correction_rms vs run
χ² / ndf 1.592e+04 / 105
p0 944.5 ± 0.6667
1300
1200
1100
1000
900
800

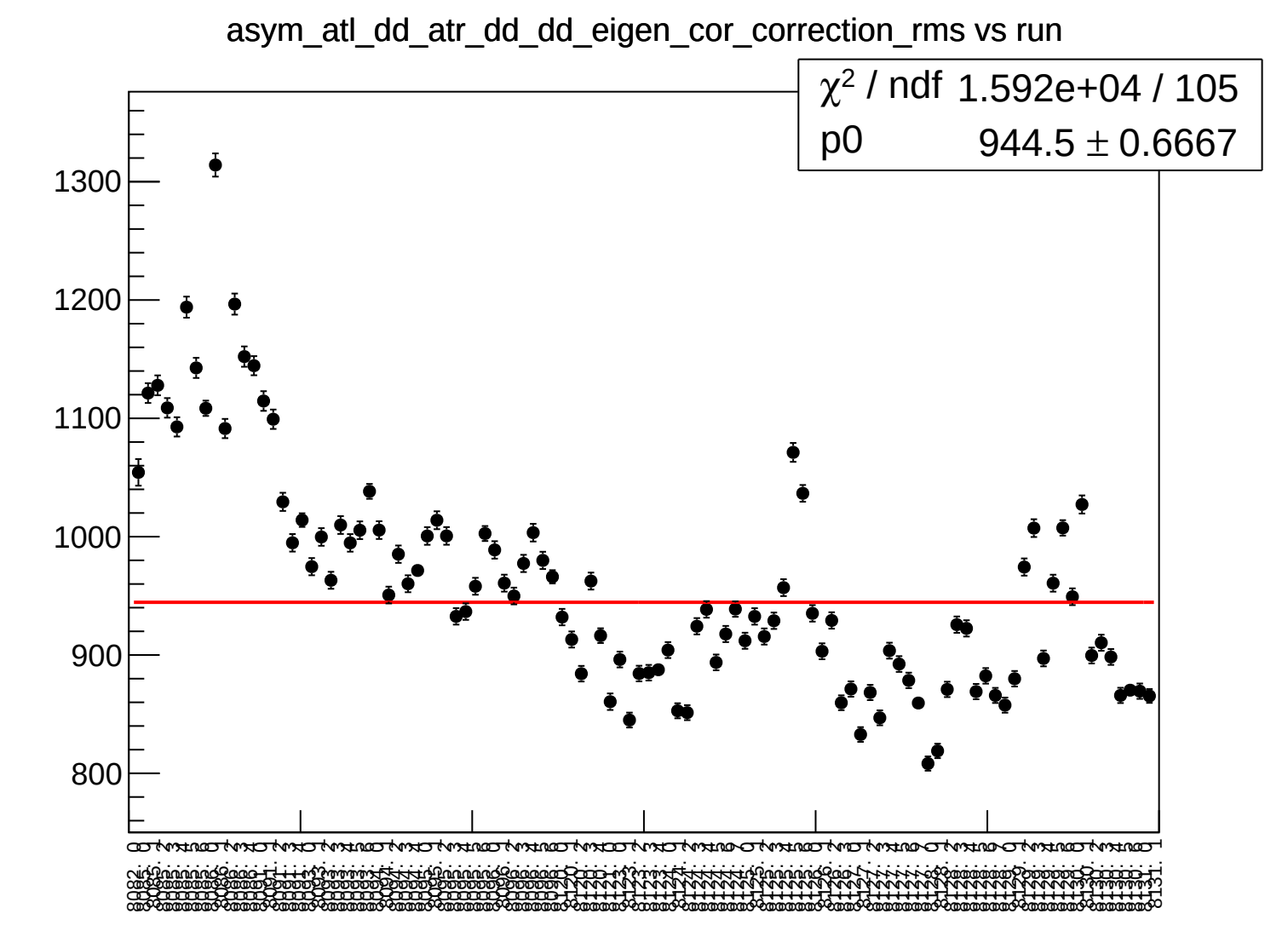

eigen_cor_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 84.58 / 105
p0 806.1 ± 1164
40000
20000
0
−20000
−40000
pull
Entries 106
Mean 806.2
Std Dev 0
3
2
1
0
−1
−2

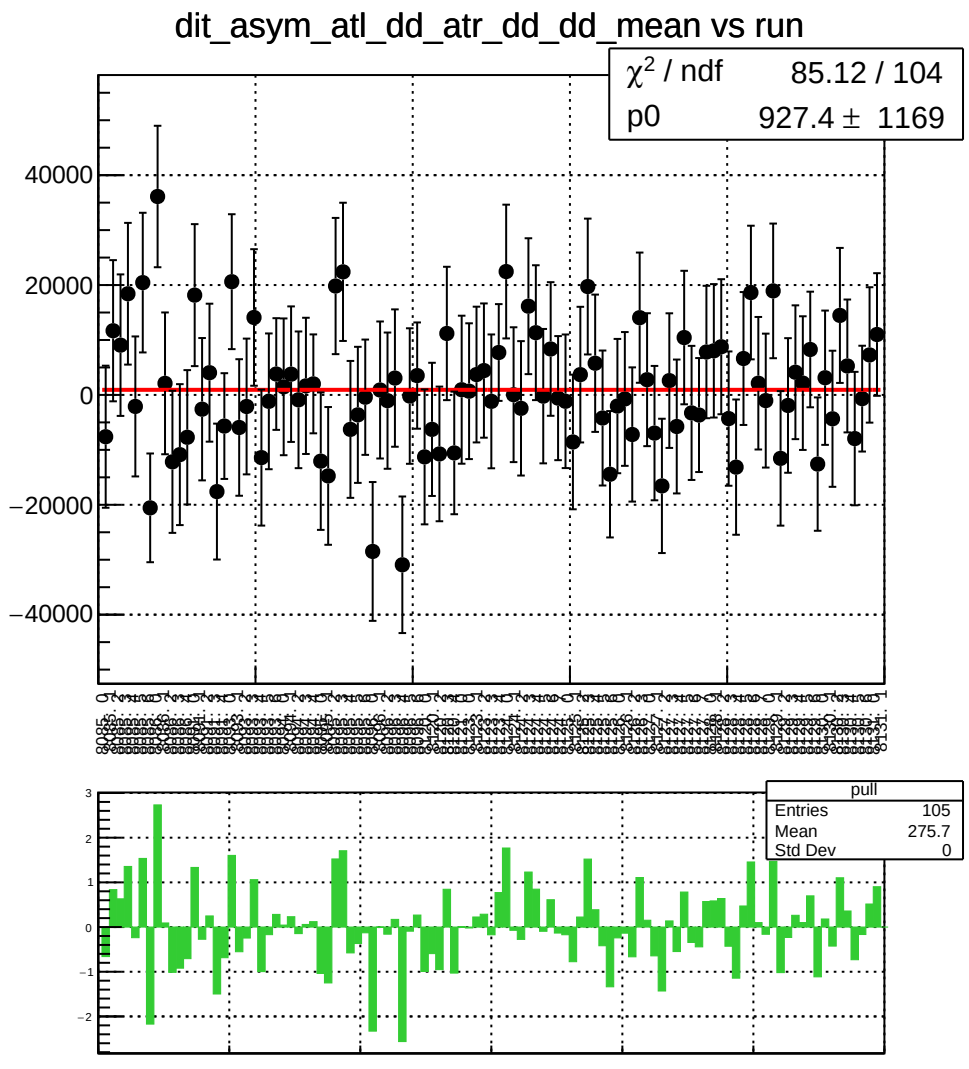

pull1D
Entries 106
Mean 0.001745
Std Dev 0.8933
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

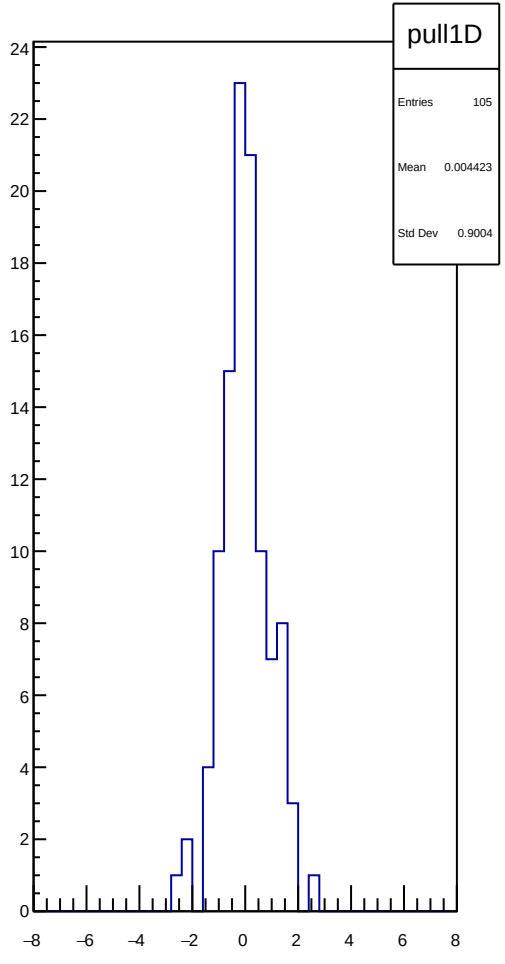

eigen_cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 478.1 / 105
p0 1171 ± 0.8234
1220
1200
1180
1160
1140

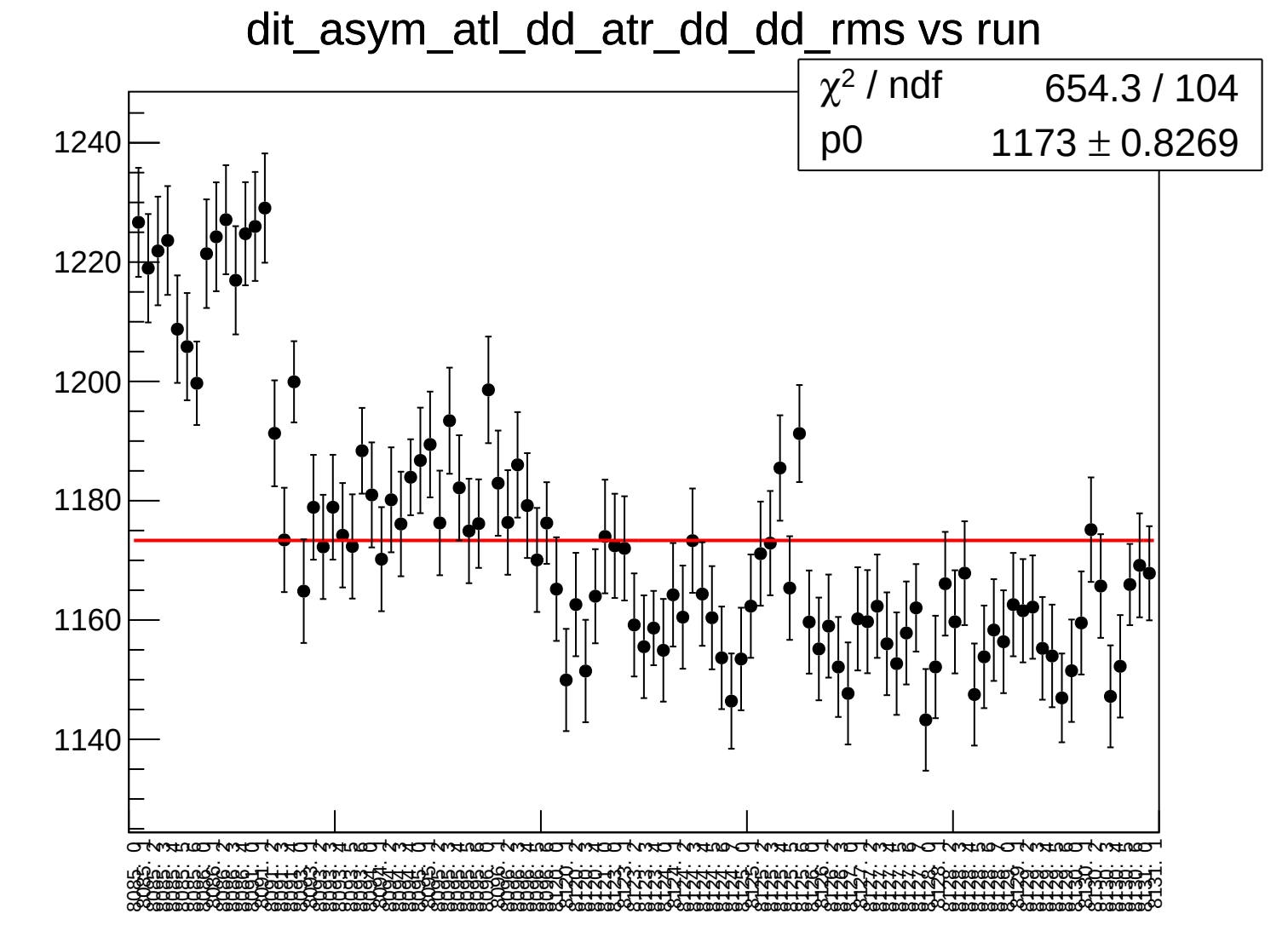

asym_atl_dd_atr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 70.12 / 105
p0 1184 ± 942.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 106
Mean 80.01
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

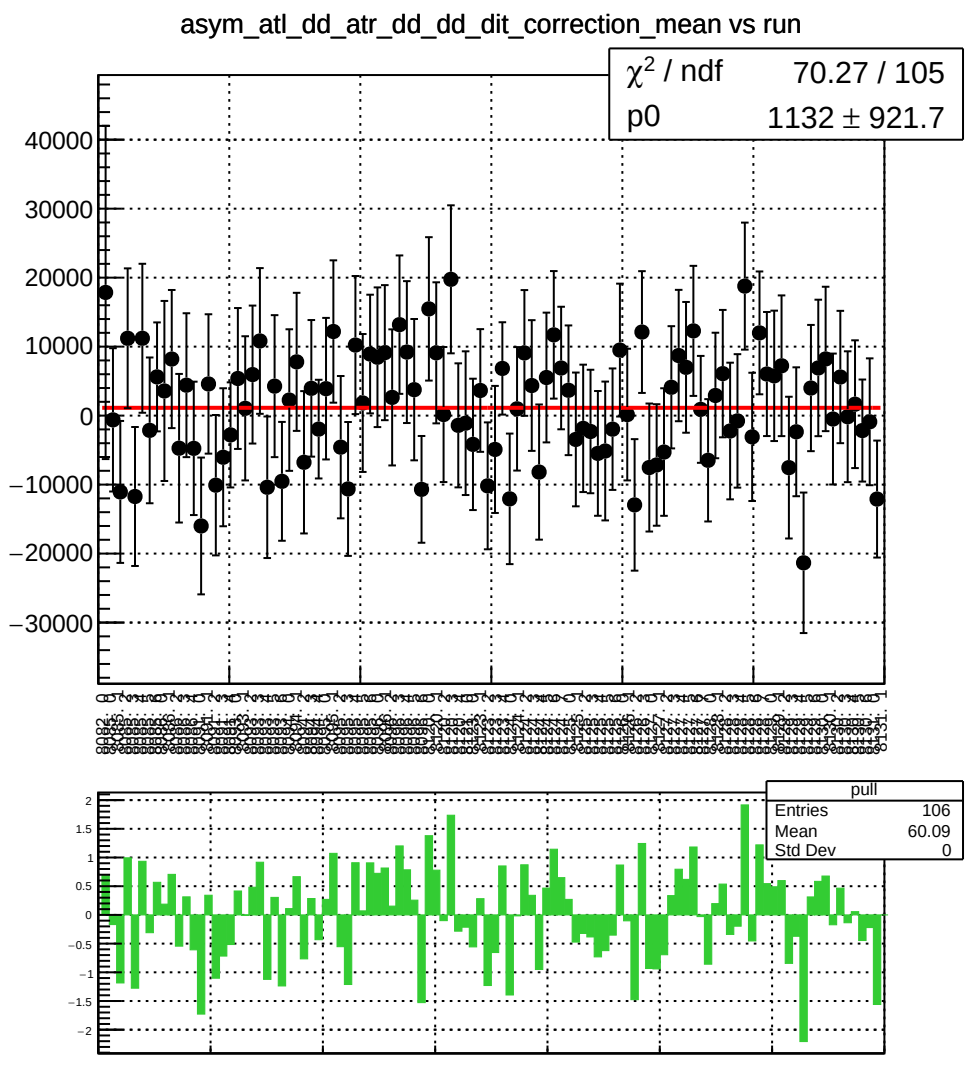

pull1D
Entries 106
Mean 0.002205
Std Dev 0.8133
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

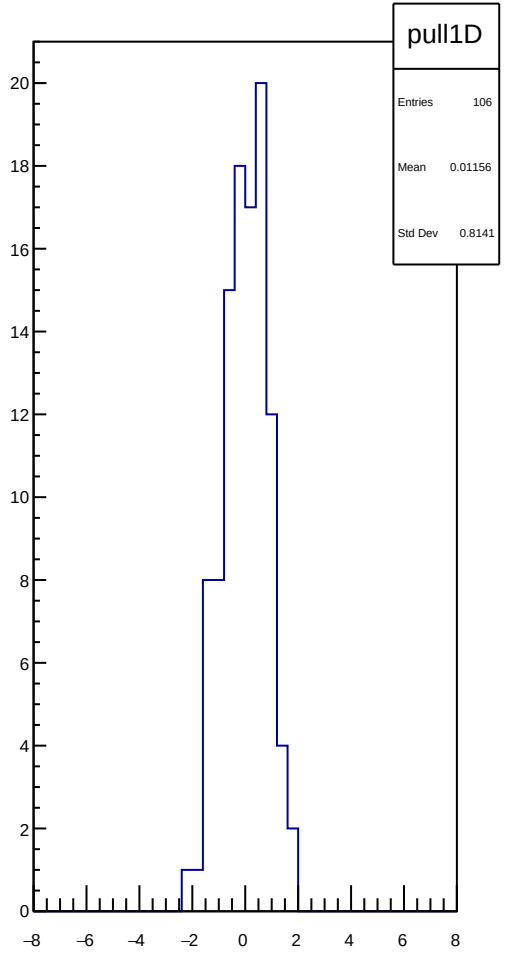

asym_atl_dd_atr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.592e+04 / 105
p0 944.5 ± 0.6667
1300
1200
1100
1000
900
800

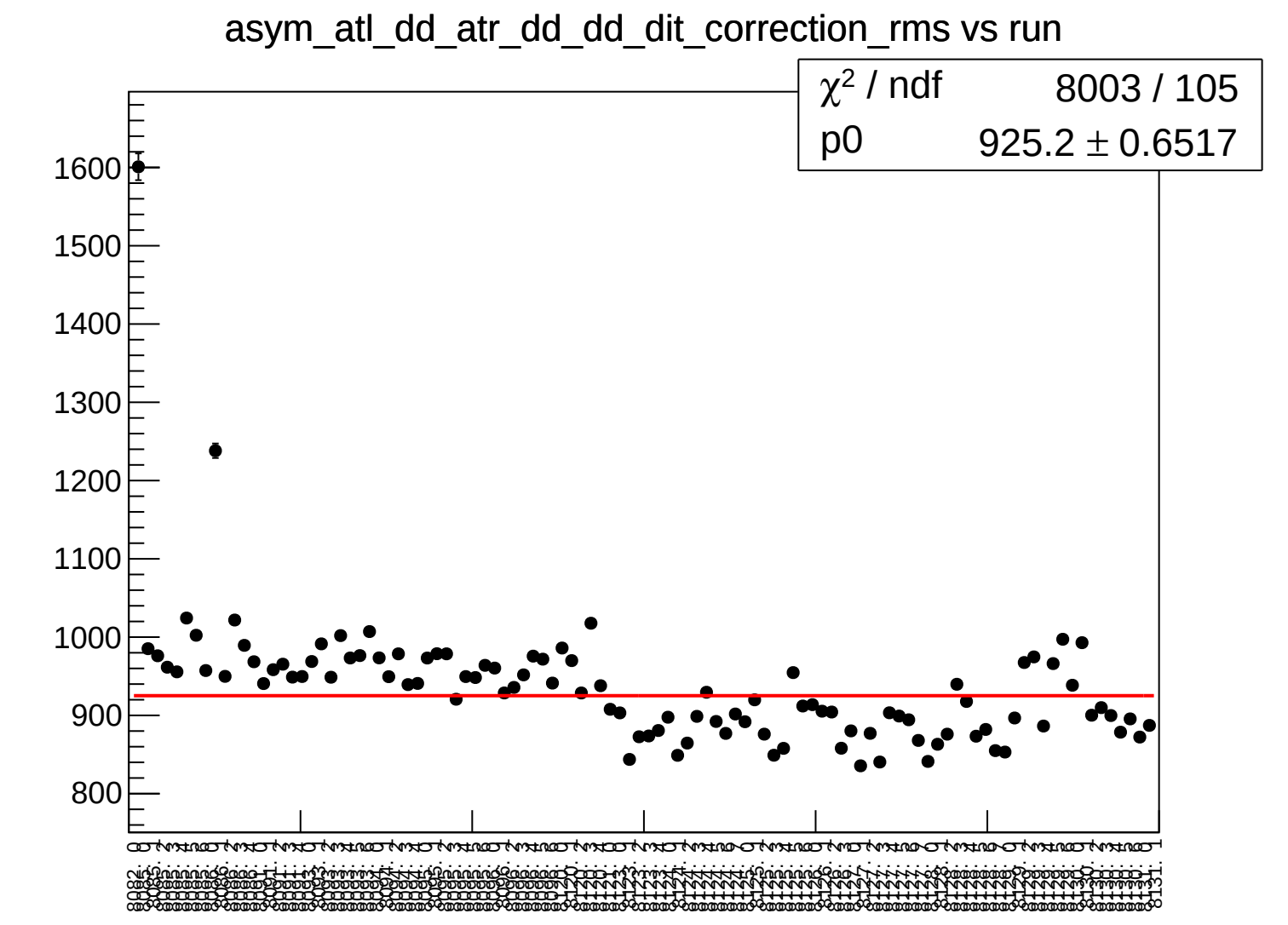

dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 85.12 / 104
p0 927.4 ± 1169
40000
20000
0
−20000
−40000
pull
Entries 105
Mean 275.7
Std Dev 0
3
2
1
0
−1
−2

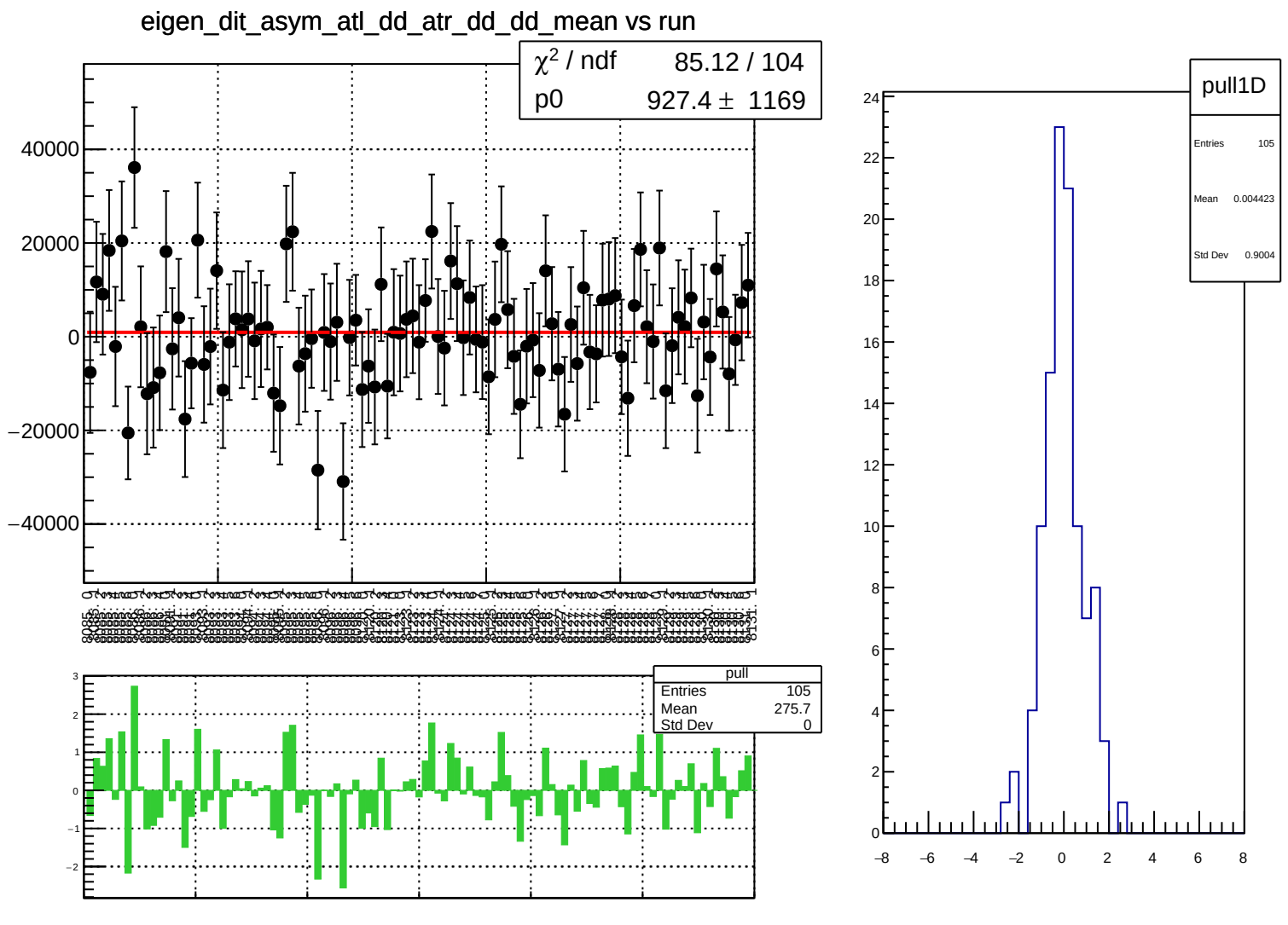

pull1D
Entries 105
Mean 0.004423
Std Dev 0.9004
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

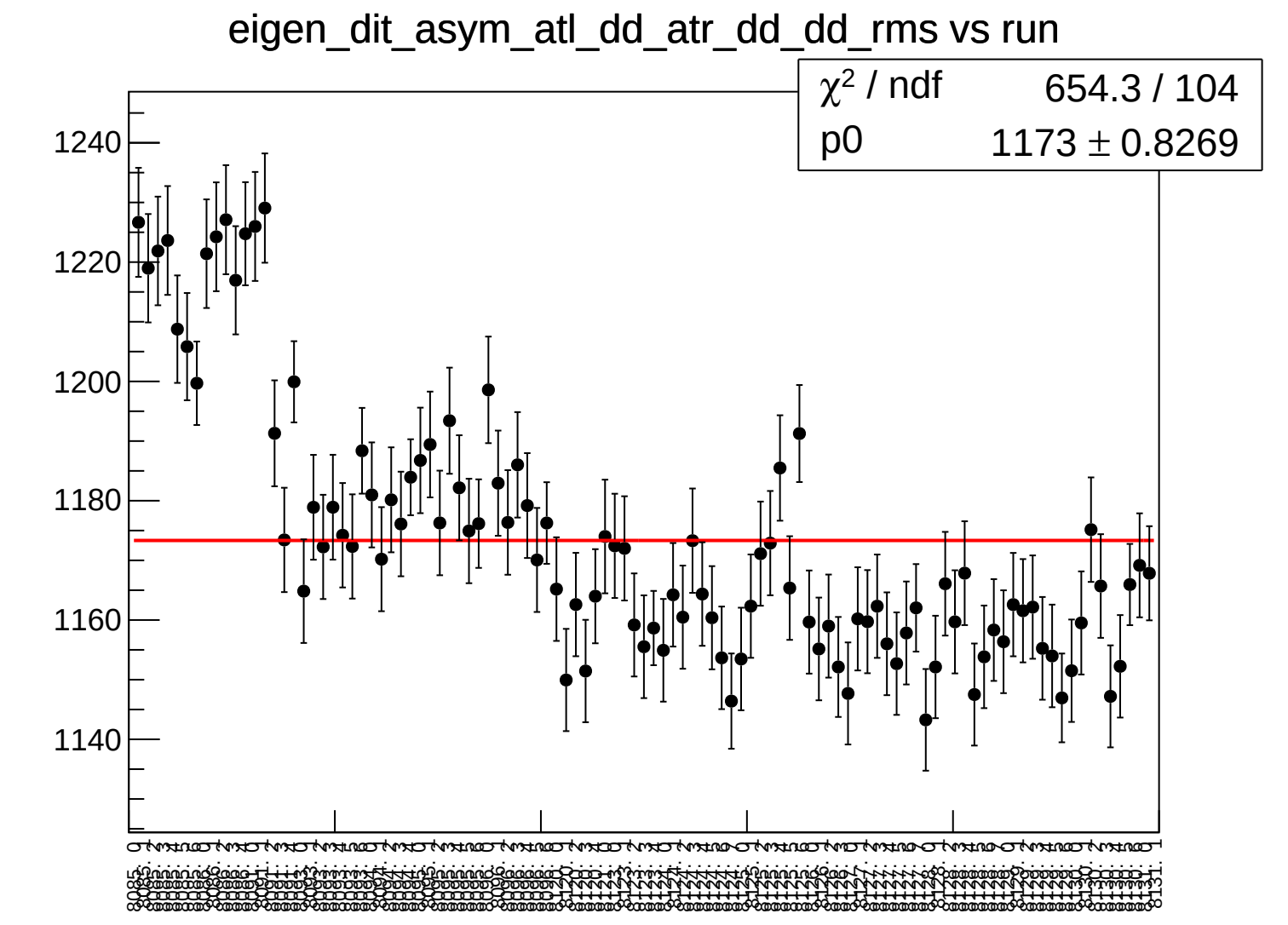

dit_asym_atl_dd_atr_dd_dd_rms vs run
$\chi^2$ / ndf 654.3 / 104
p0 1173 ± 0.8269
1240
1220
1200
1180
1160
1140

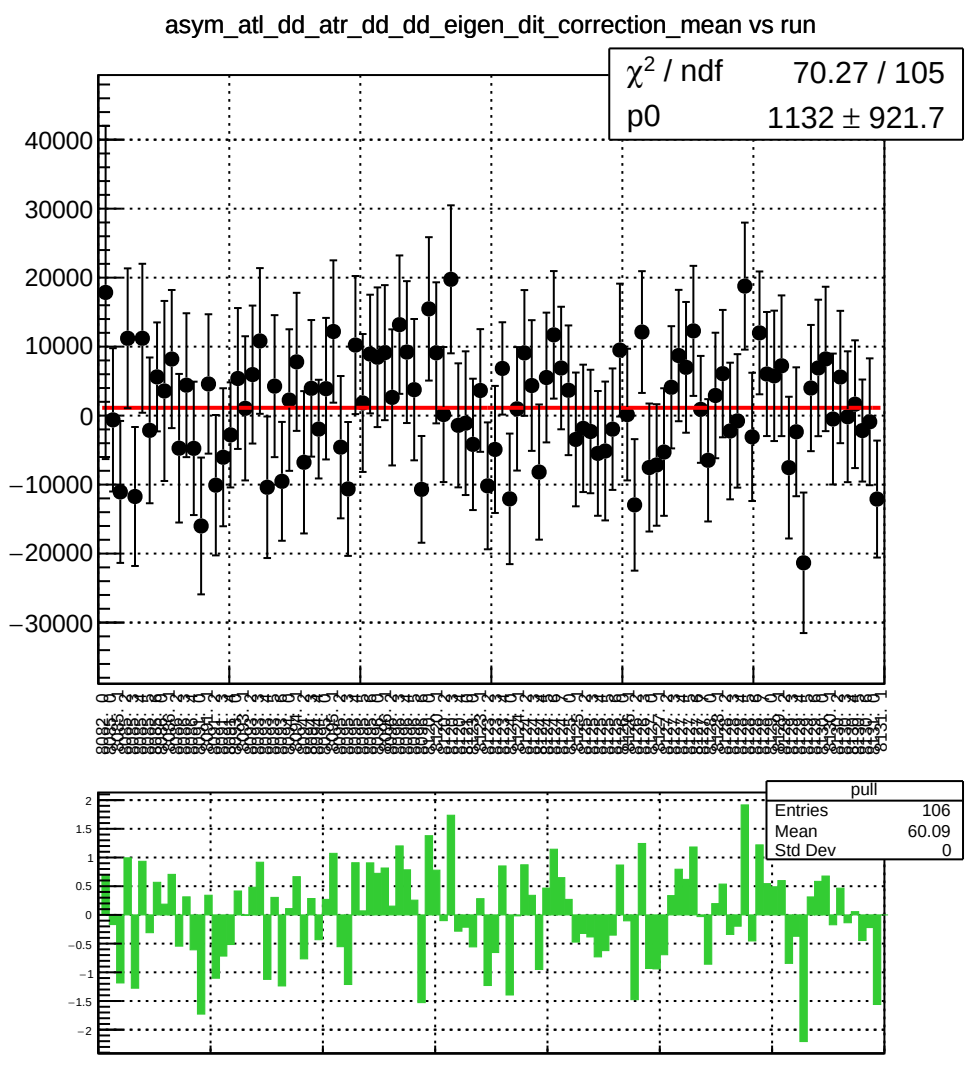

asym_atl_dd_atr_dd_dd_dit_correction_mean vs run
χ² / ndf 70.27 / 105
p0 1132 ± 921.7
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 106
Mean 60.09
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

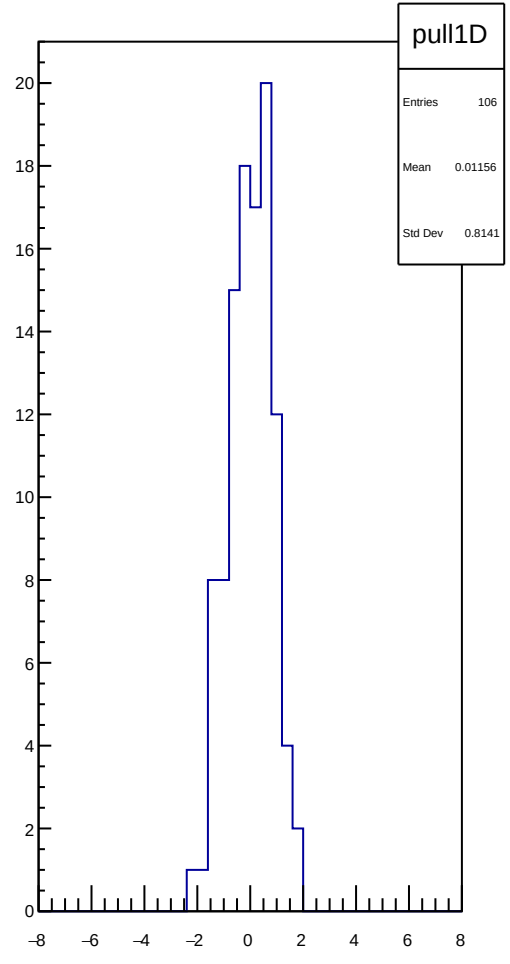

pull1D
Entries 106
Mean 0.01156
Std Dev 0.8141
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

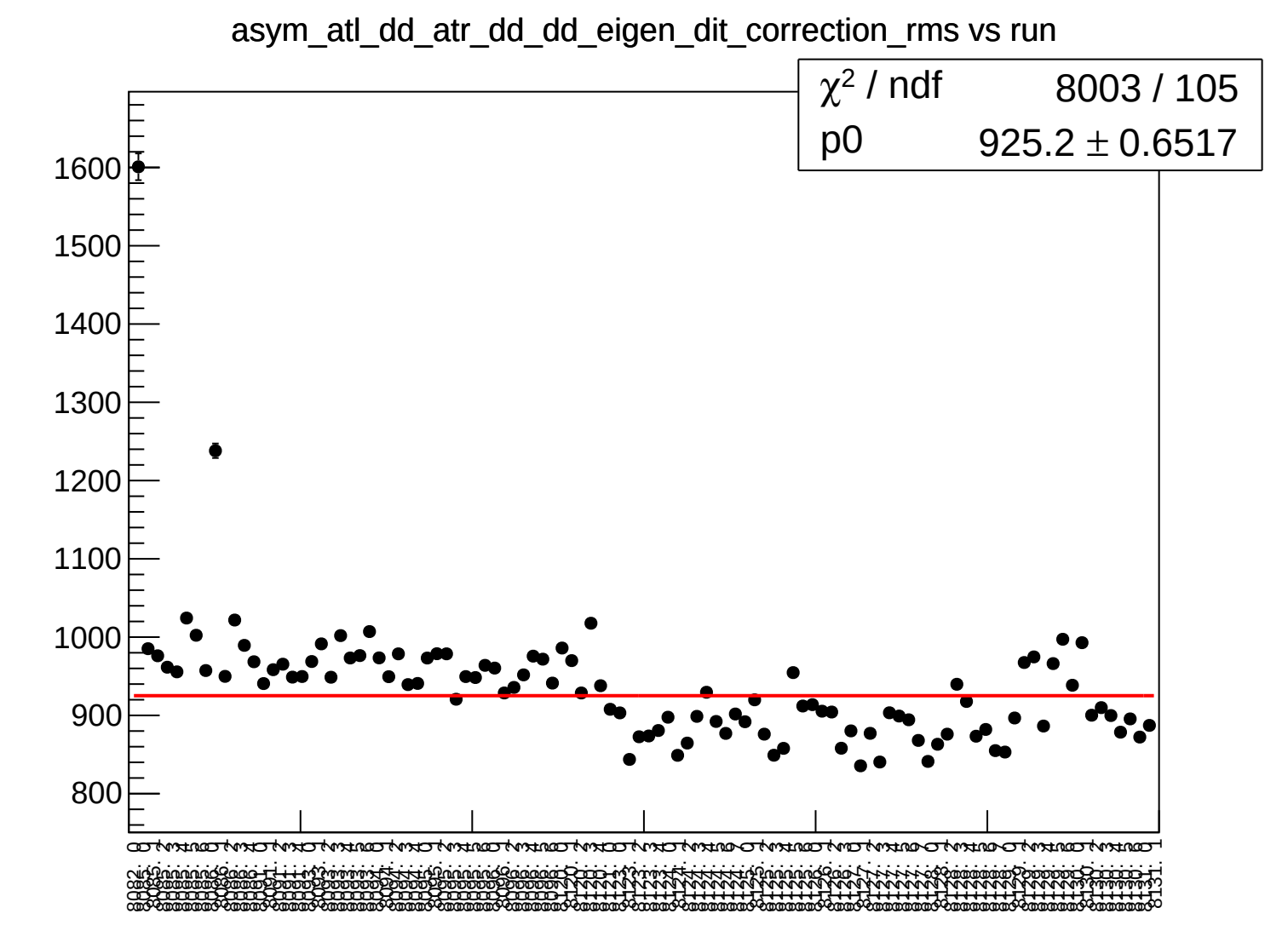

asym_atl_dd_atr_dd_dd_dit_correction_rms vs run
χ² / ndf 8003 / 105
p0 925.2 ± 0.6517
1600
1500
1400
1300
1200
1100
1000
900
800

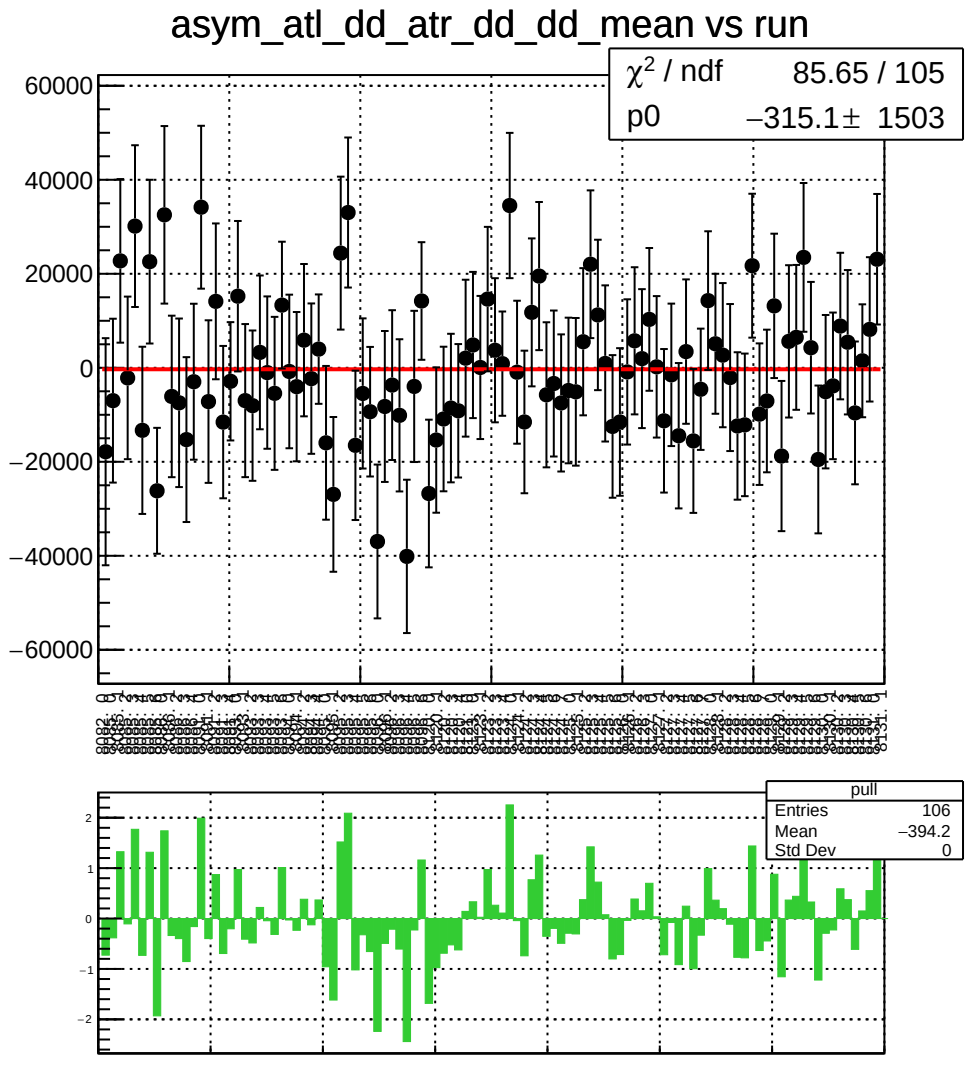

eigen_dit_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 85.12 / 104
p0 927.4 ± 1169
40000
20000
0
−20000
−40000
pull
Entries 105
Mean 275.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.004423
Std Dev 0.9004
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

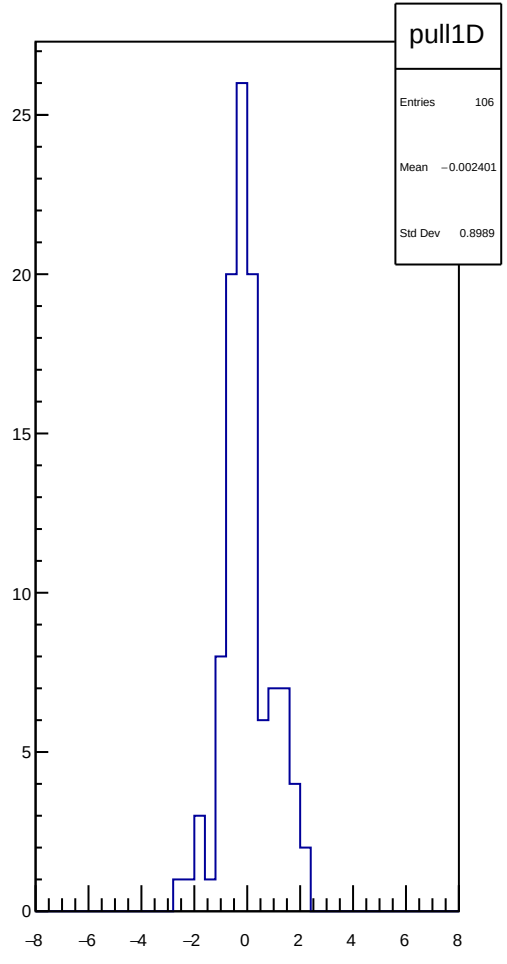

eigen_dit_asym_atl_dd_atr_dd_dd_rms vs run
$\chi^2$ / ndf 654.3 / 104
p0 1173 ± 0.8269
1240
1220
1200
1180
1160
1140

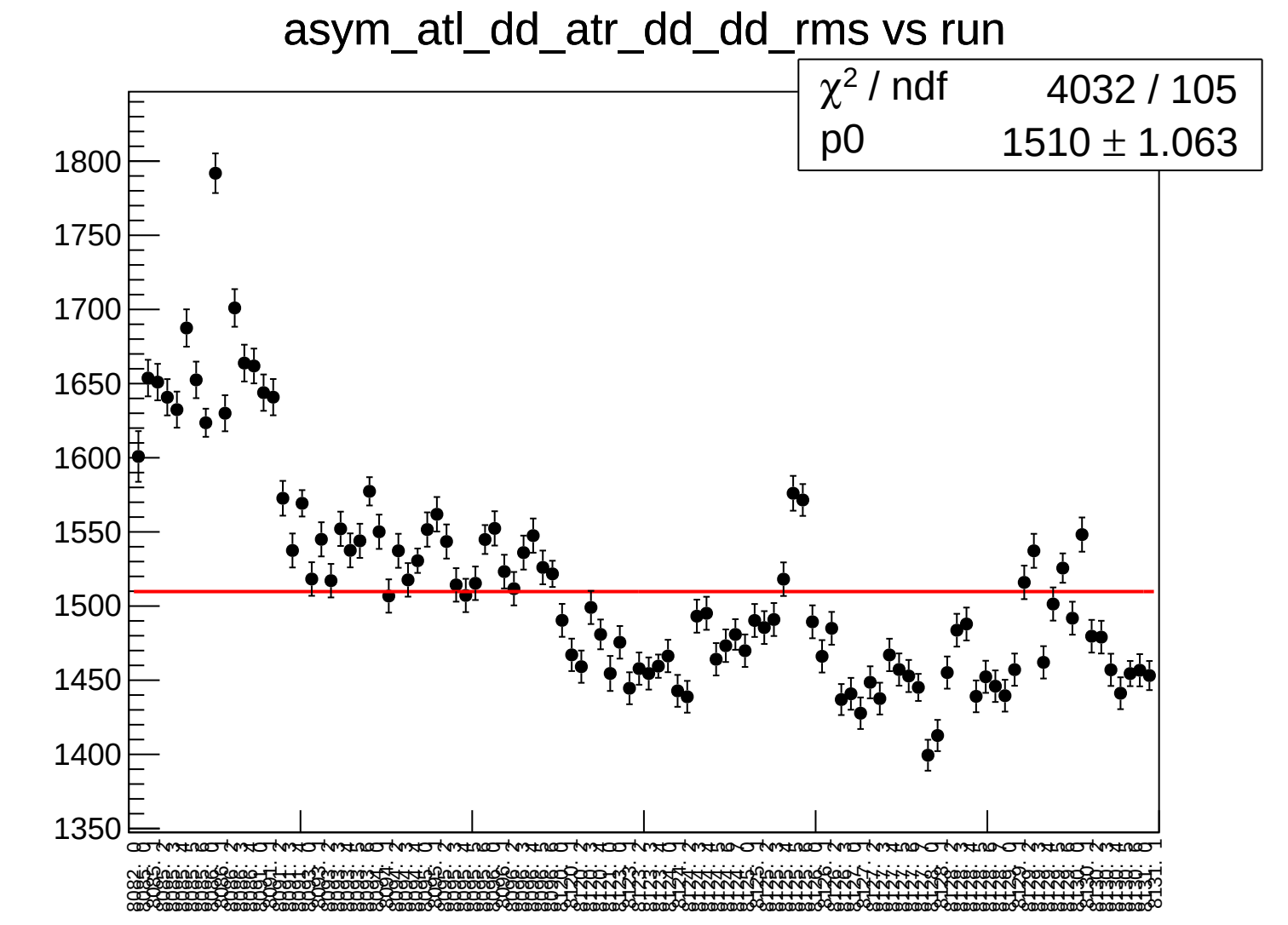

asym_atl_dd_atr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 70.27 / 105
p0 1132 ± 921.7
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 106
Mean 60.09
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

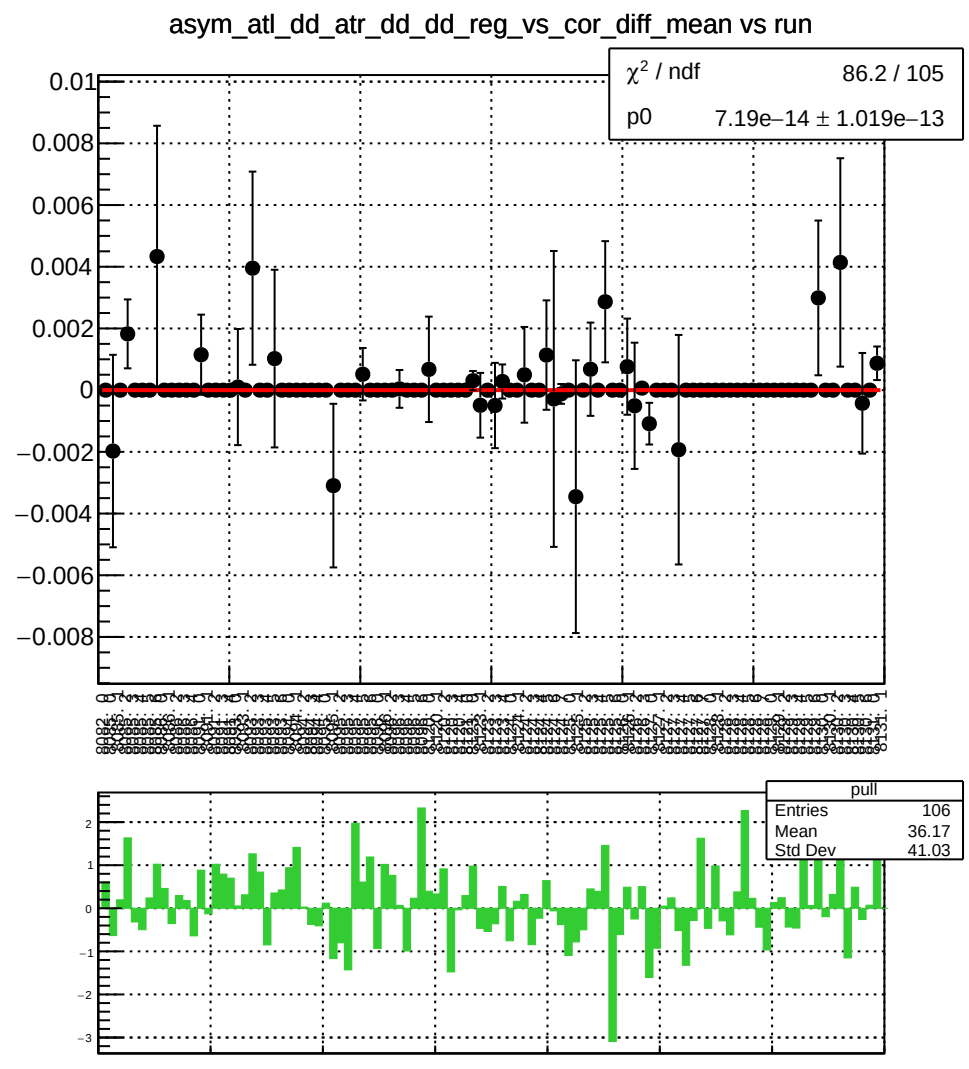

pull1D
Entries 106
Mean 0.01156
Std Dev 0.8141
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

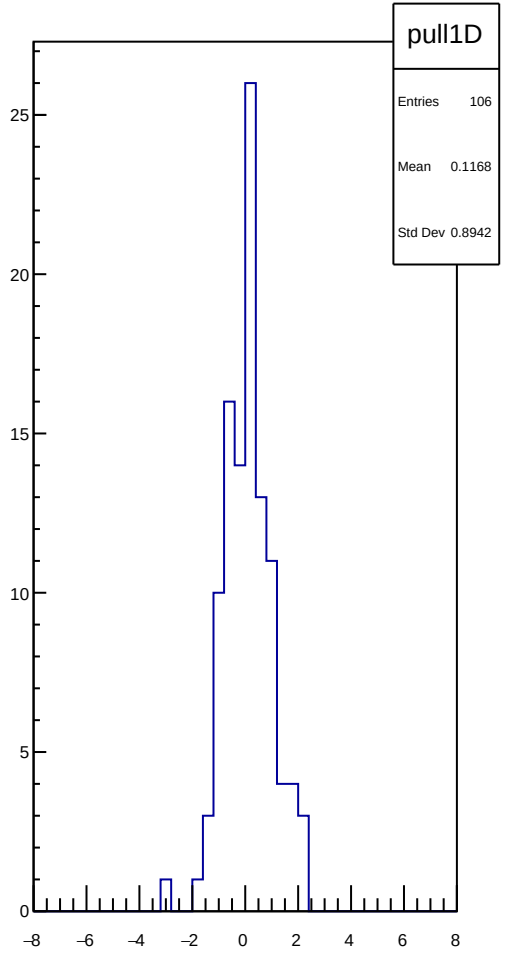

asym_atl_dd_atr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 8003 / 105
p0 925.2 ± 0.6517
1600
1500
1400
1300
1200
1100
1000
900
800

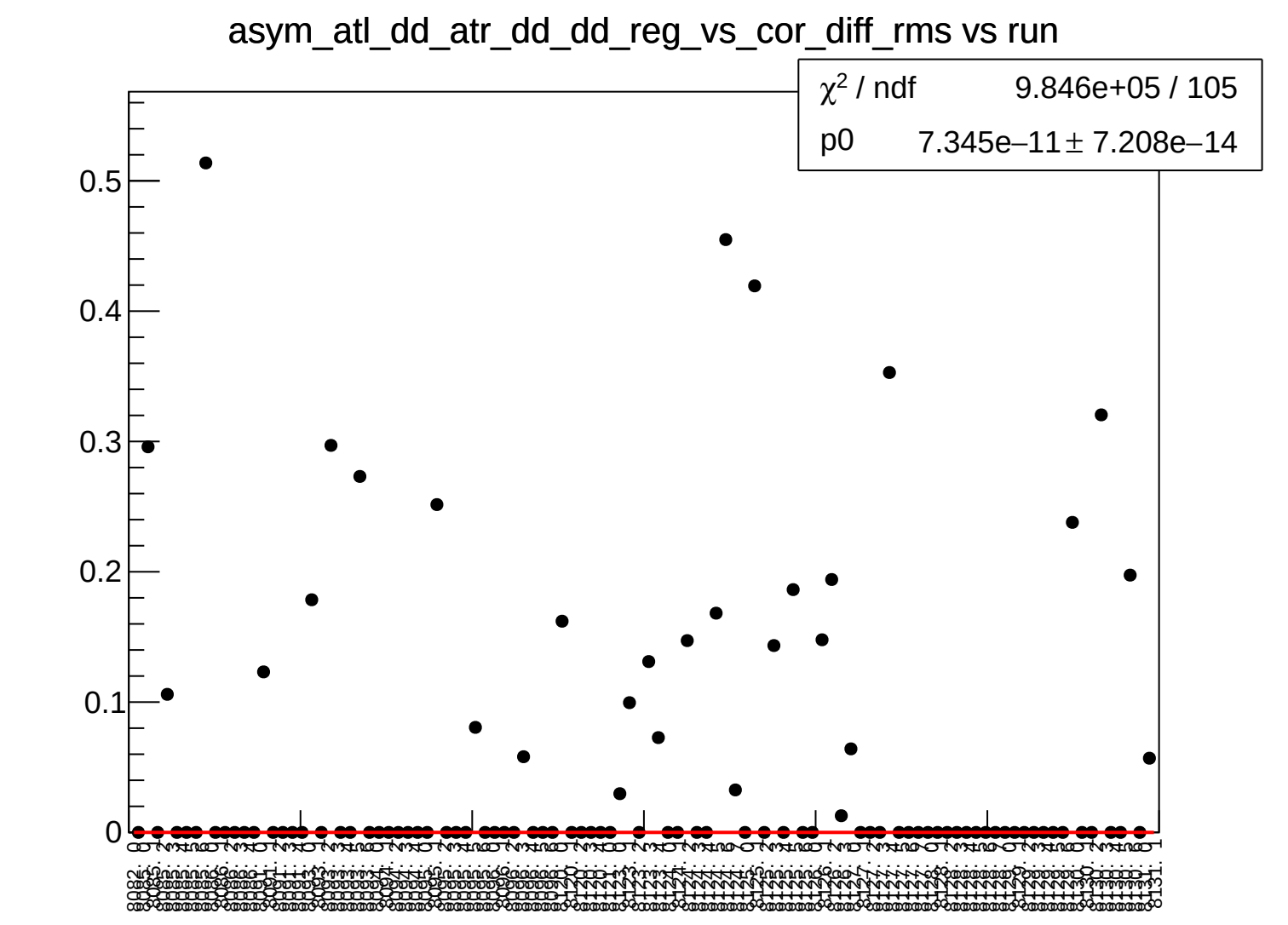

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 85.65 / 105
p0 −315.1± 1503
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean −394.2
Std Dev 0
2
1
0
−1
−2

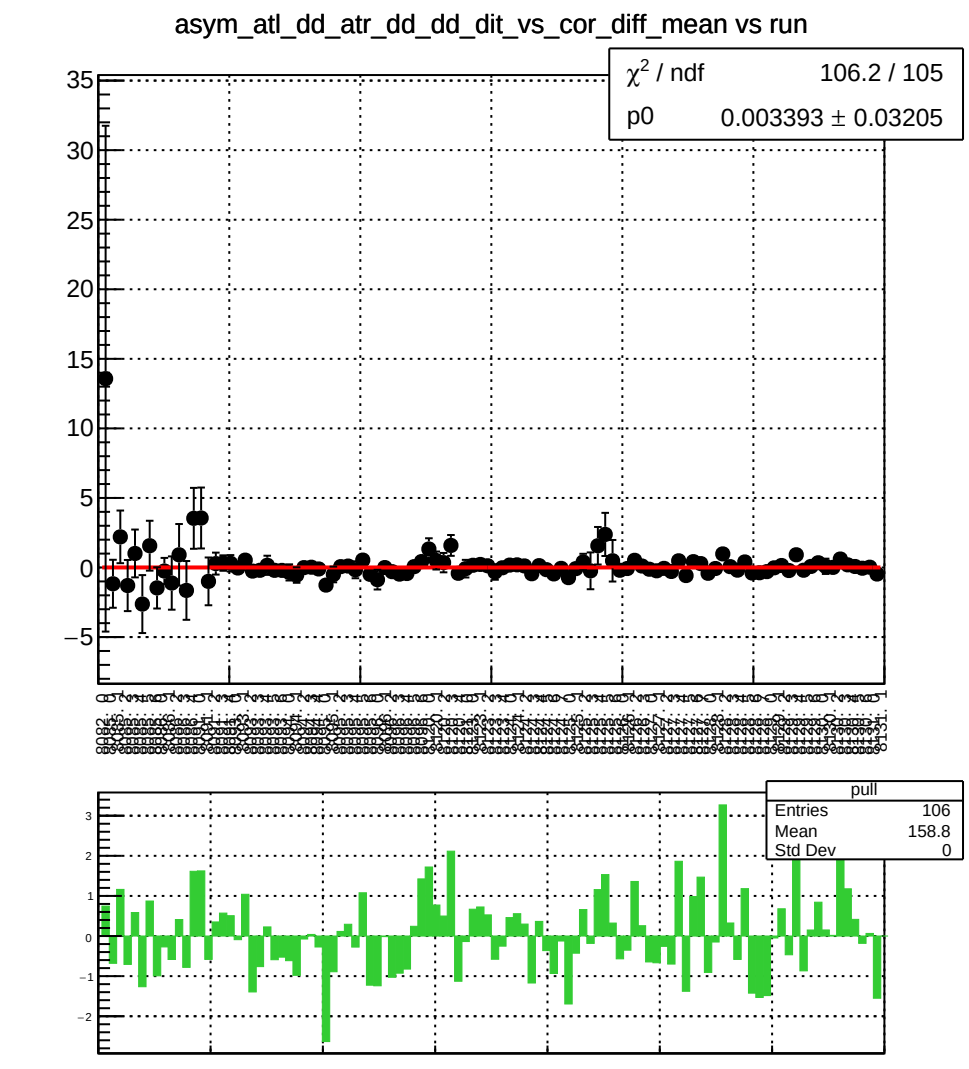

pull1D
Entries 106
Mean −0.002401
Std Dev 0.8989
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

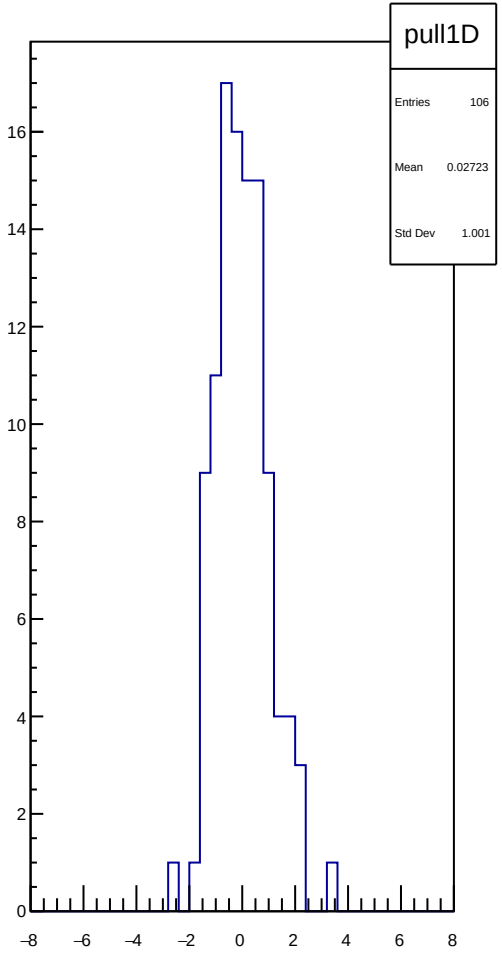

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 4032 / 105
p0 1510 ± 1.063
1800
1750
1700
1650
1600
1550
1500
1450
1400
1350

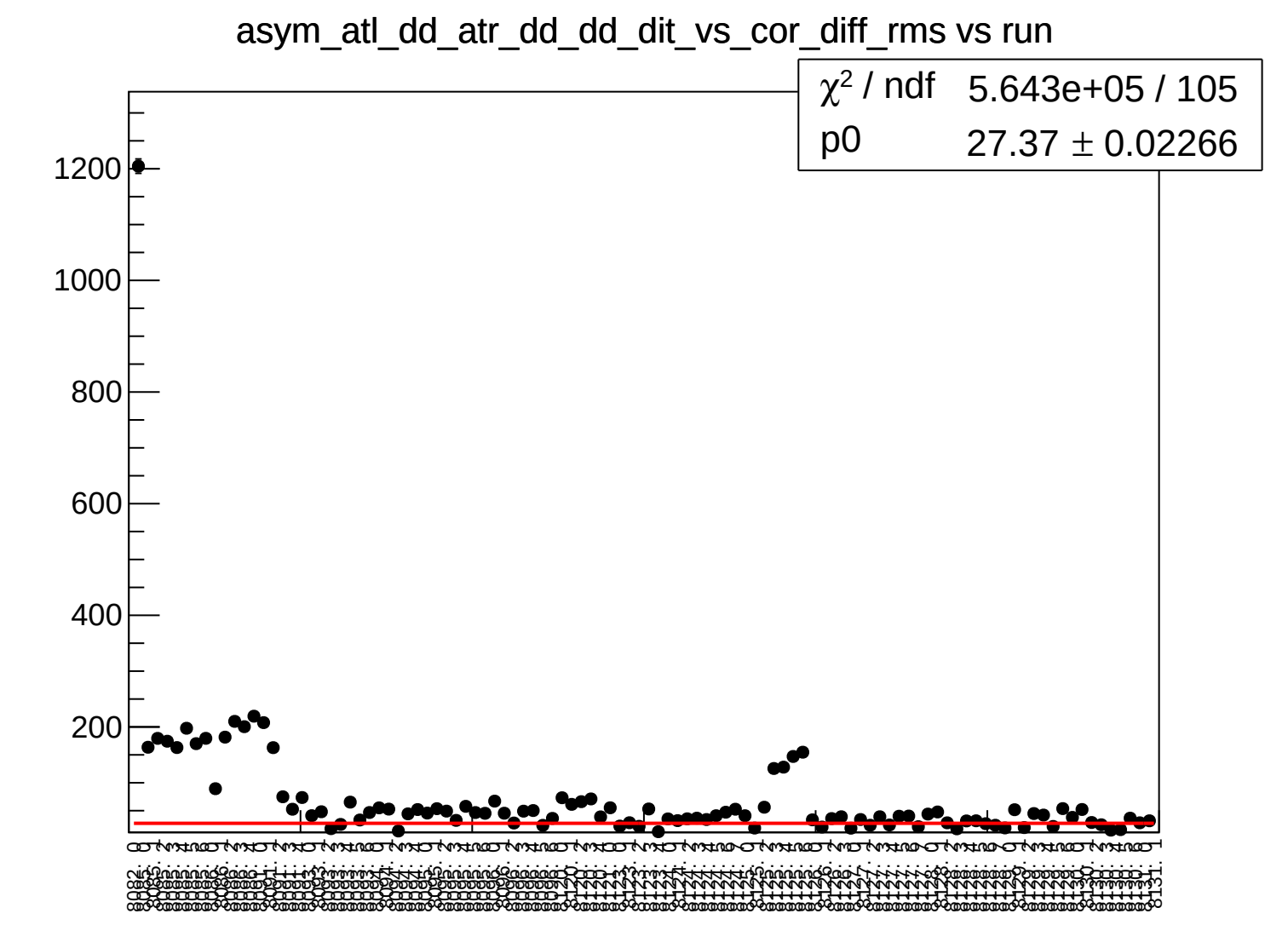

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 86.2 / 105
p0 7.19e−14 ± 1.019e−13
0.01
0.008
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
pull
Entries 106
Mean 36.17
Std Dev 41.03
2
1
0
−1
−2
−3

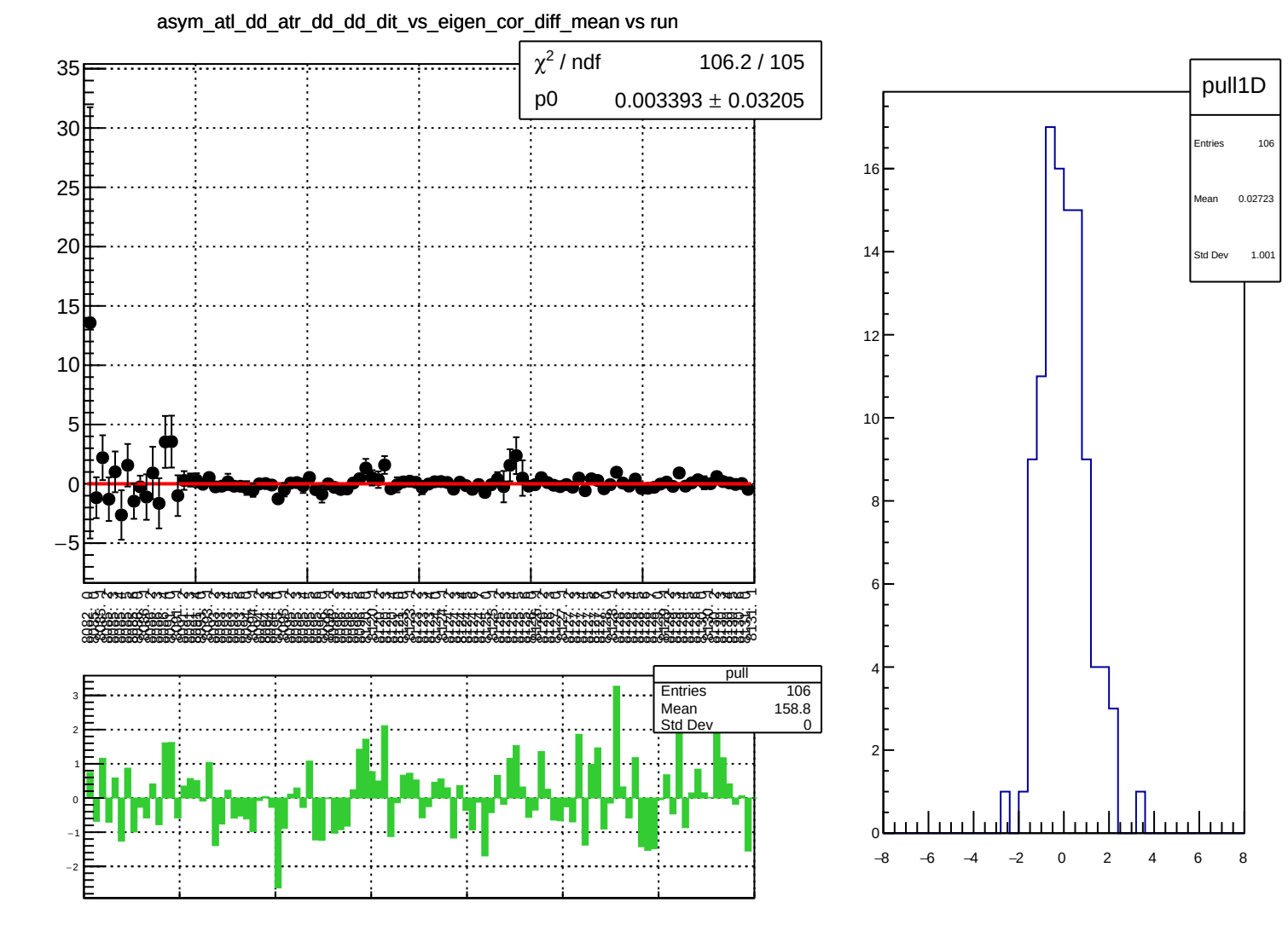

pull1D
Entries 106
Mean 0.1168
Std Dev 0.8942
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

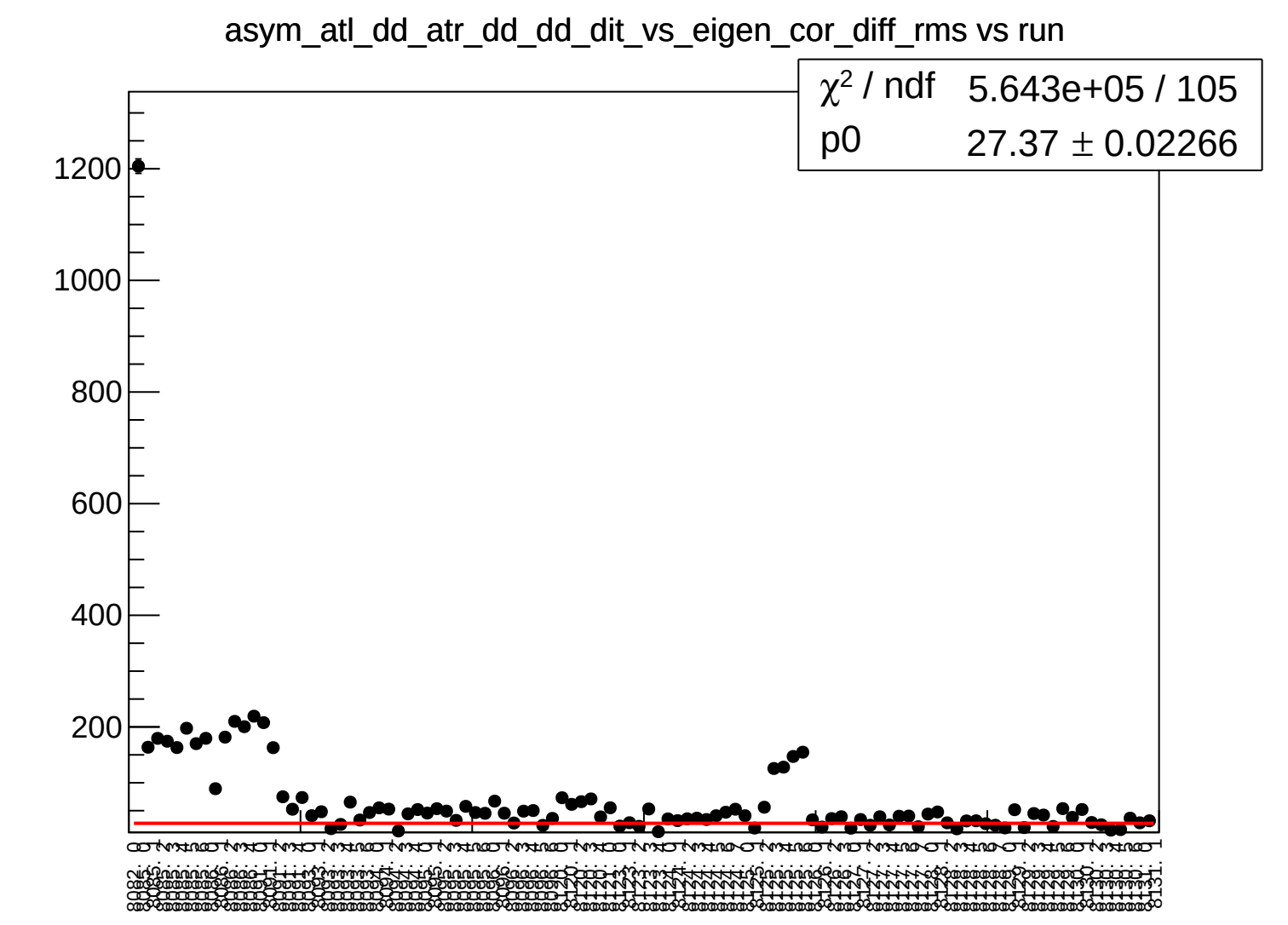

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.846e+05 / 105
p0 7.345e−11 ± 7.208e−14
0.5
0.4
0.3
0.2
0.1
0

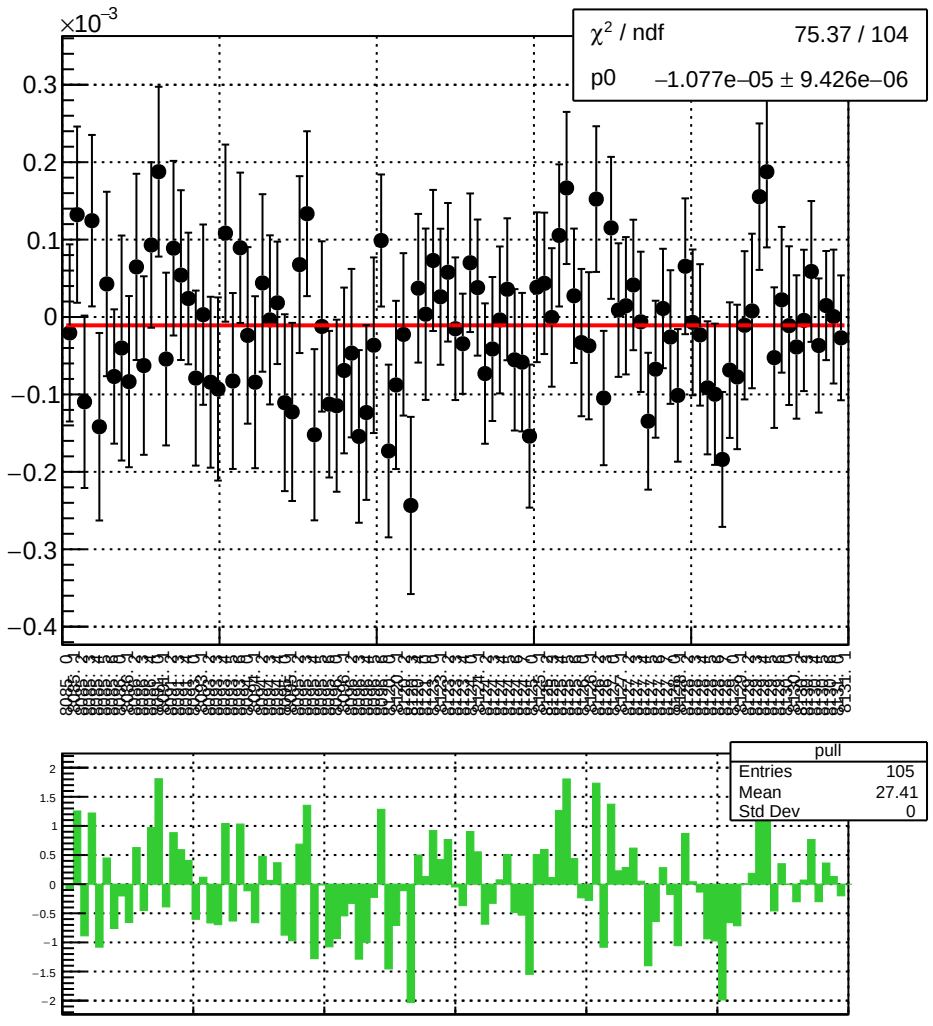

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 106.2 / 105
p0 0.003393 ± 0.03205
pull
Entries 106
Mean 158.8
Std Dev 0

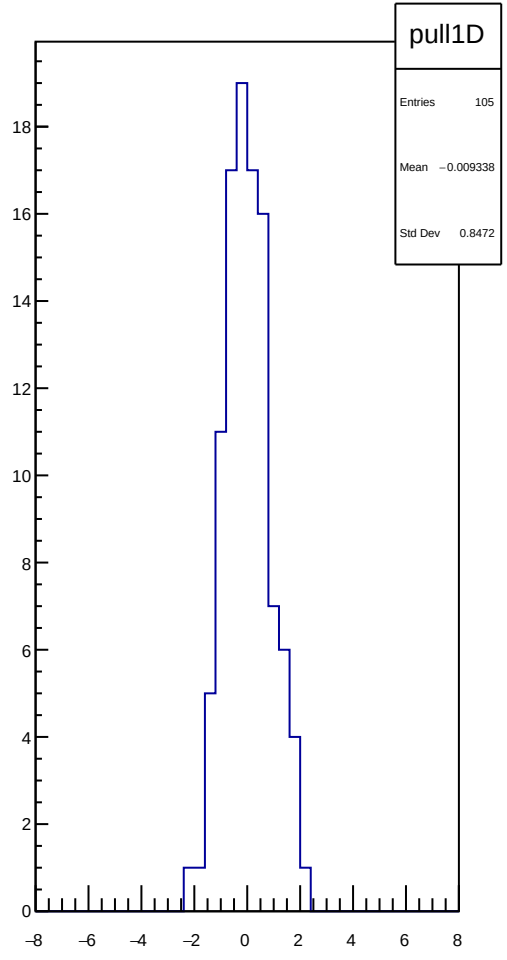

pull1D
Entries 106
Mean 0.02723
Std Dev 1.001

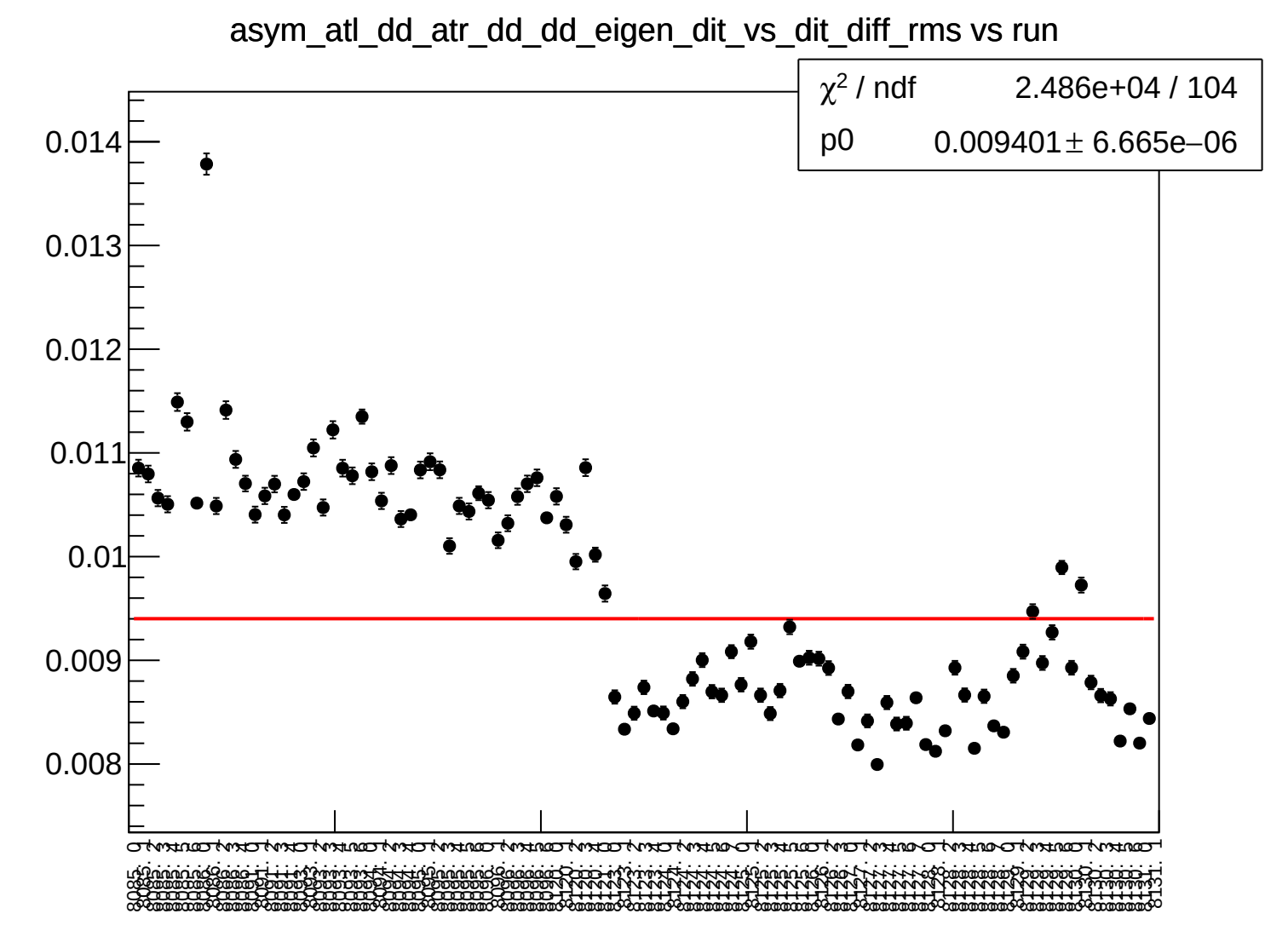

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.643e+05 / 105
p0 27.37 ± 0.02266
1200
1000
800
600
400
200

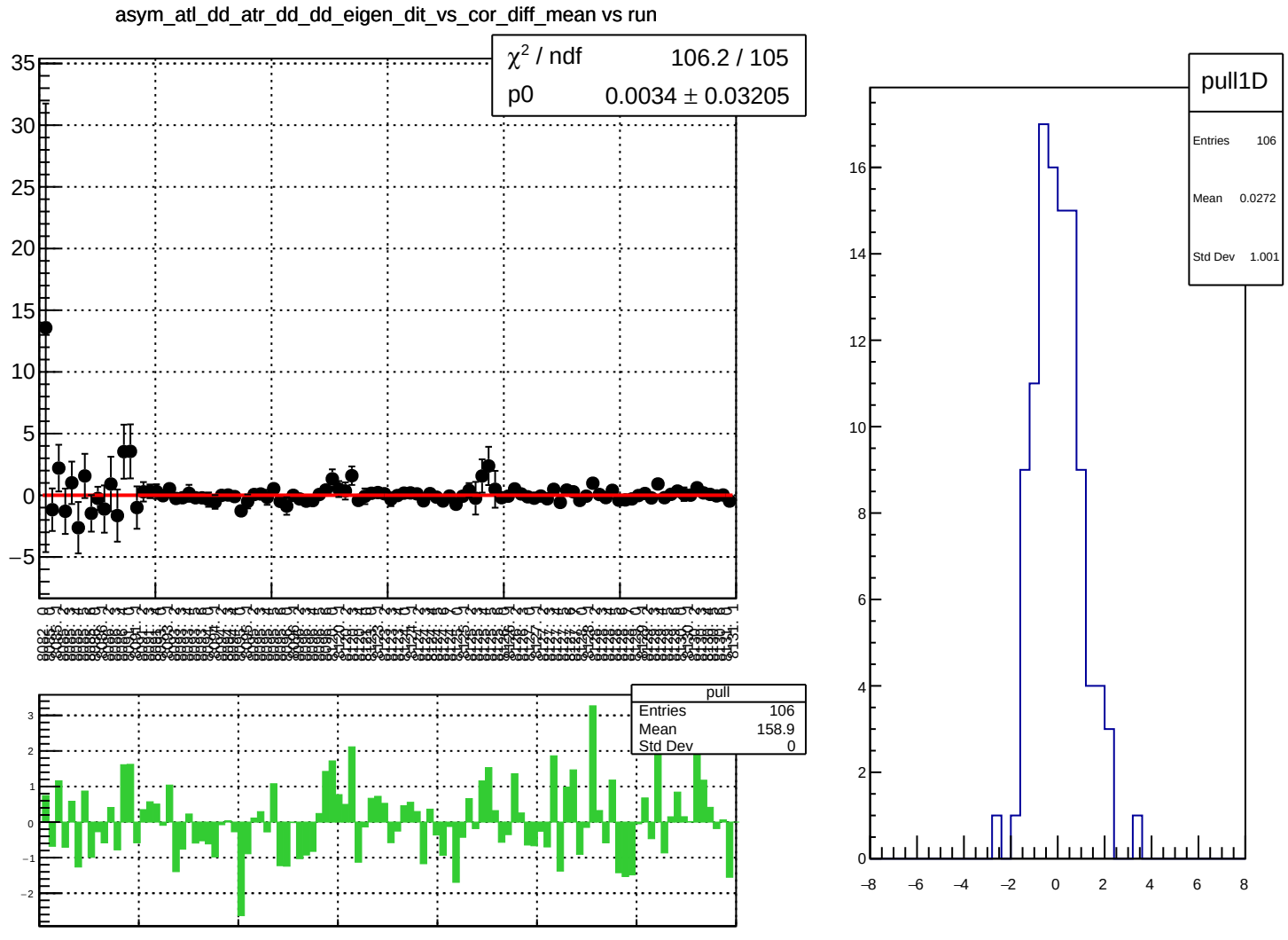

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.2 / 105
p0 0.003393 ± 0.03205
pull
Entries 106
Mean 158.8
Std Dev 0
pull1D
Entries 106
Mean 0.02723
Std Dev 1.001

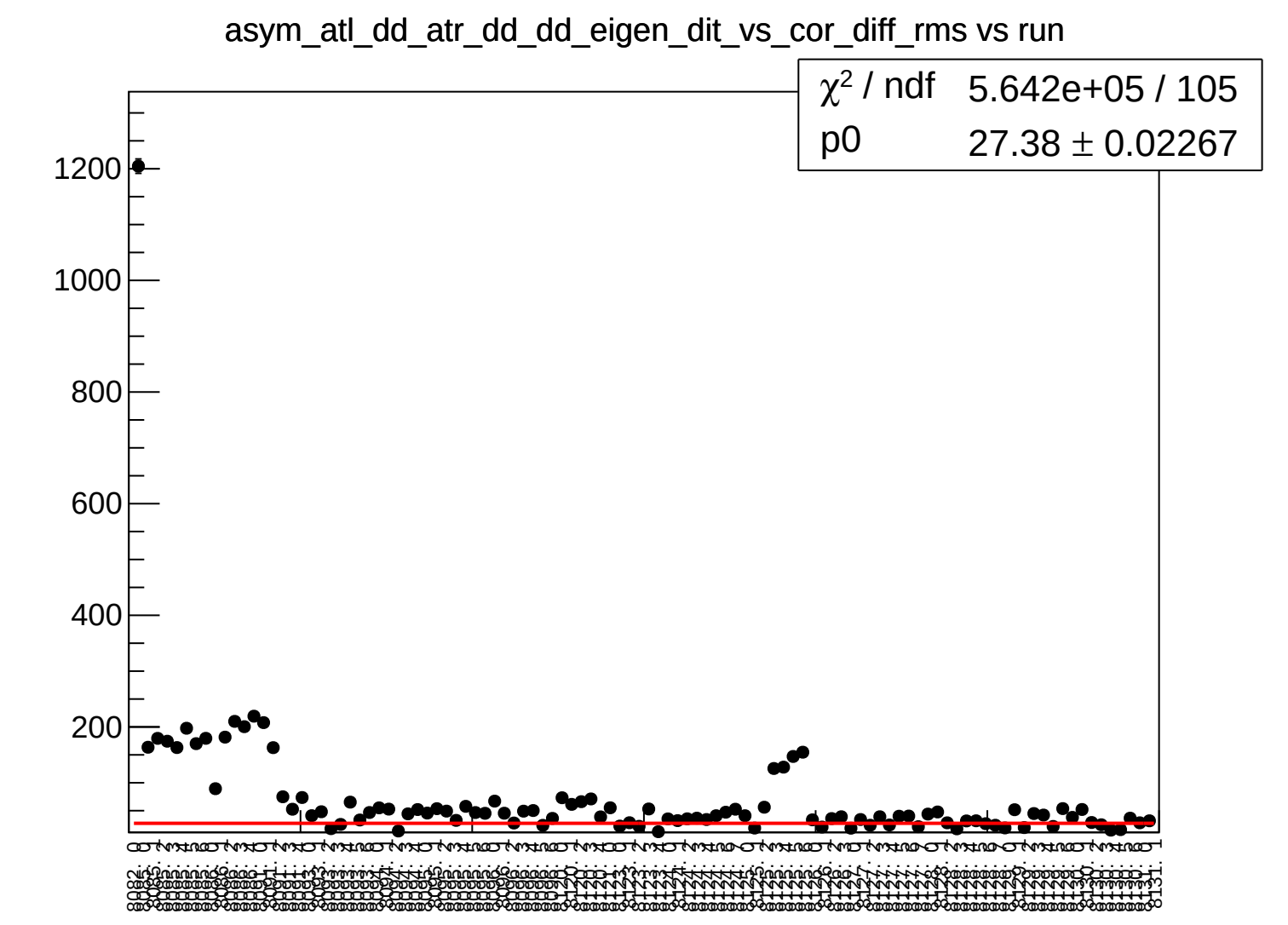

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.643e+05 / 105
p0 27.37 ± 0.02266
1200
1000
800
600
400
200

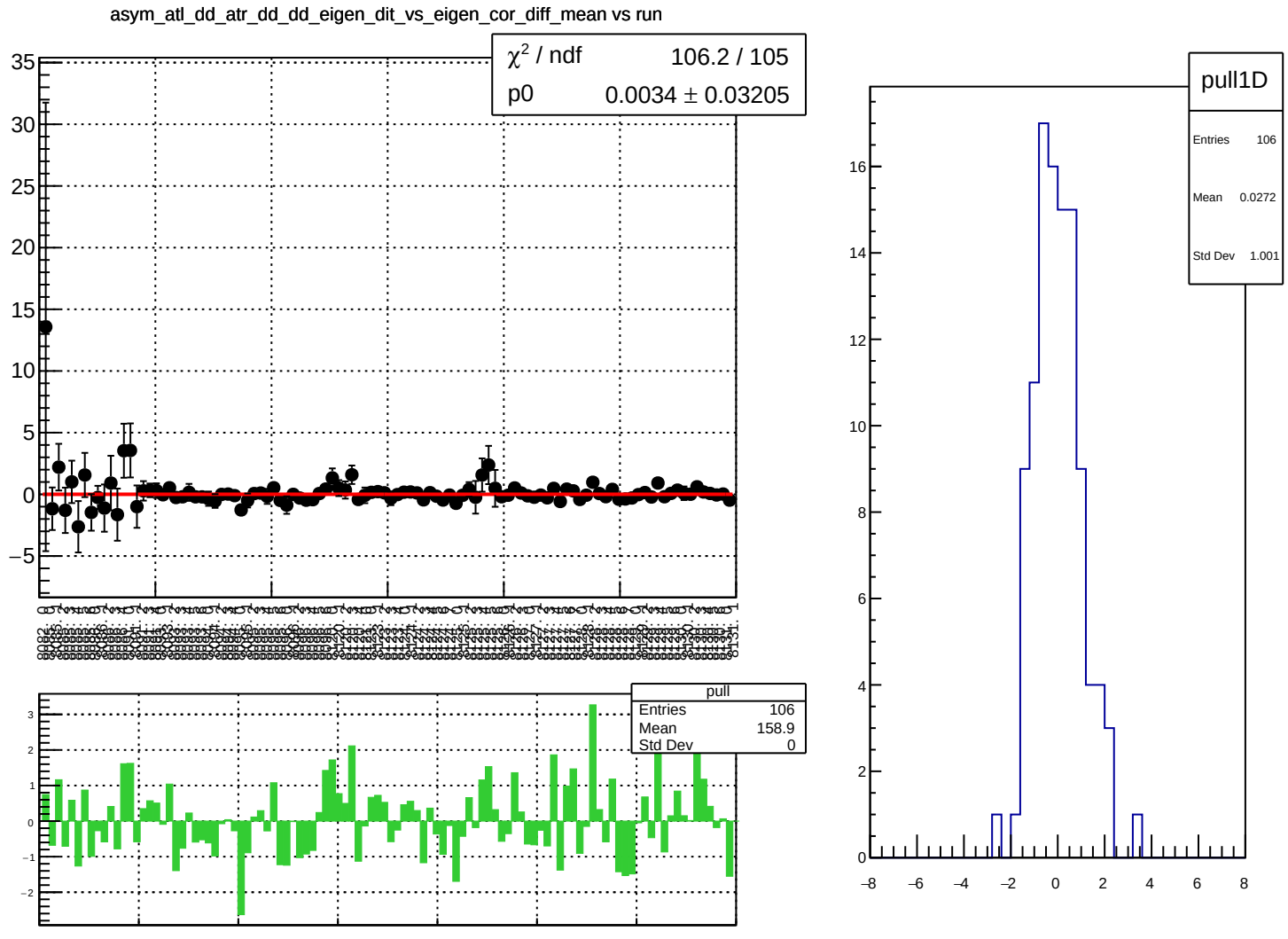

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 75.37 / 104
p0 −1.077e−05 ± 9.426e−06
pull
Entries 105
Mean 27.41
Std Dev 0

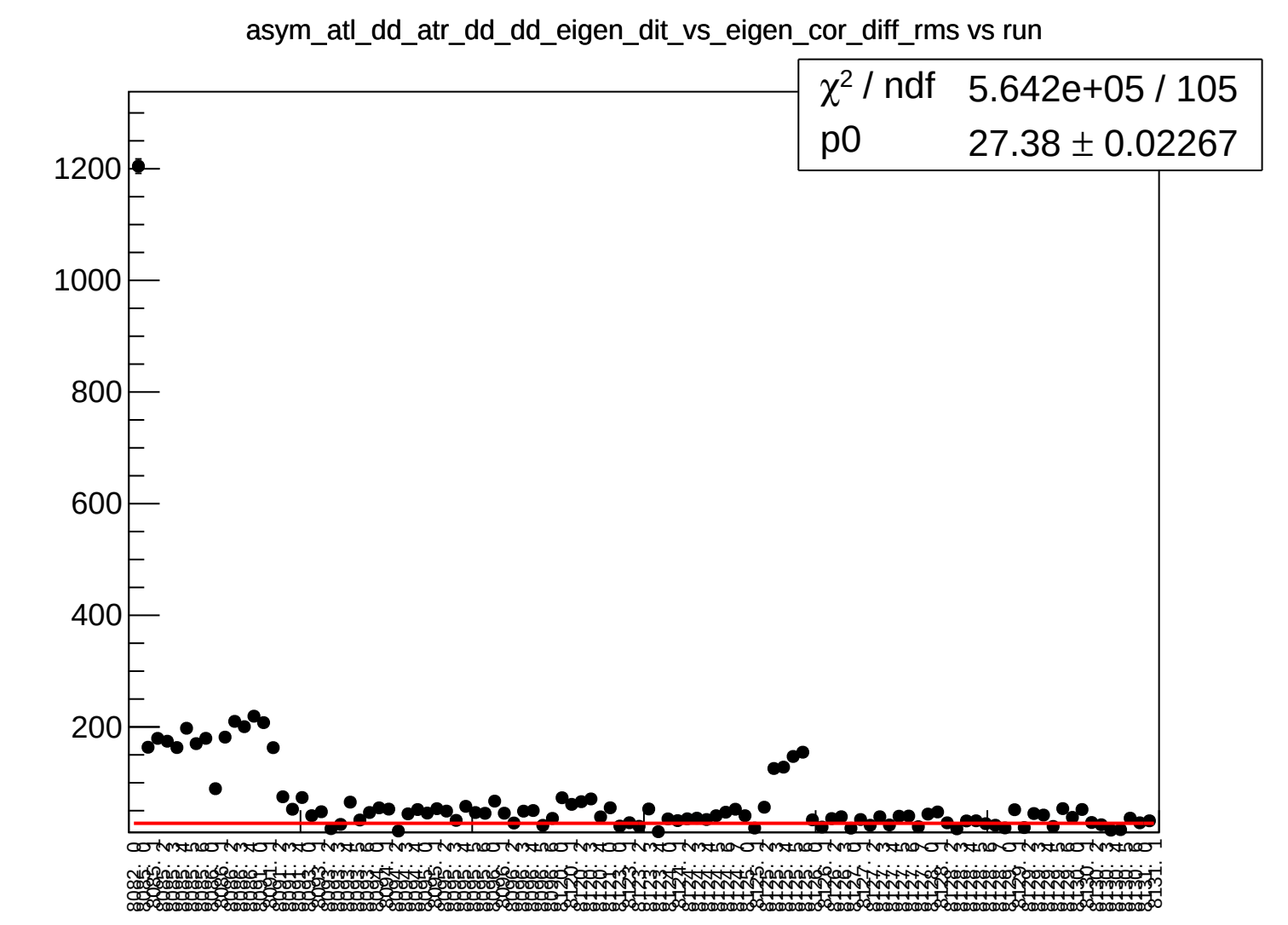

pull1D
Entries 105
Mean −0.009338
Std Dev 0.8472

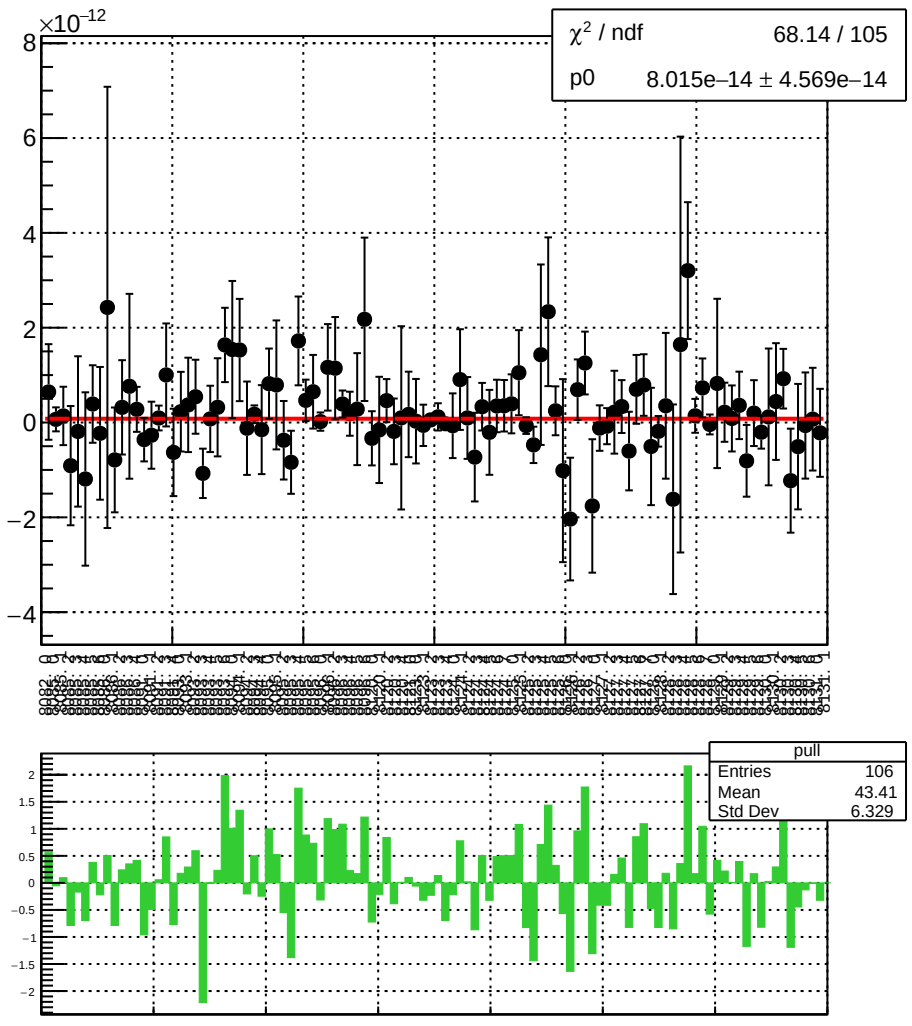

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.486e+04 / 104
p0 0.009401 ± 6.665e−06
0.014
0.013
0.012
0.011
0.01
0.009
0.008

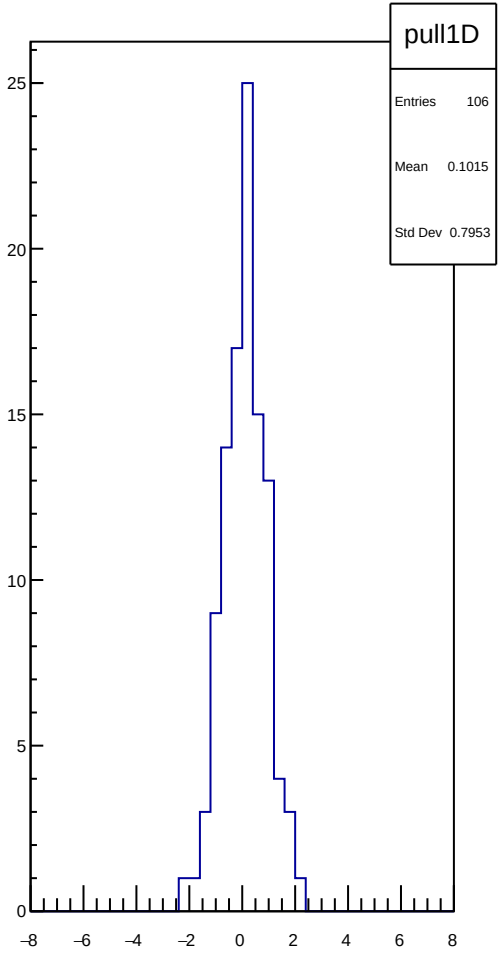

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 106.2 / 105
p0 0.0034 ± 0.03205
pull
Entries 106
Mean 158.9
Std Dev 0
pull1D
Entries 106
Mean 0.0272
Std Dev 1.001

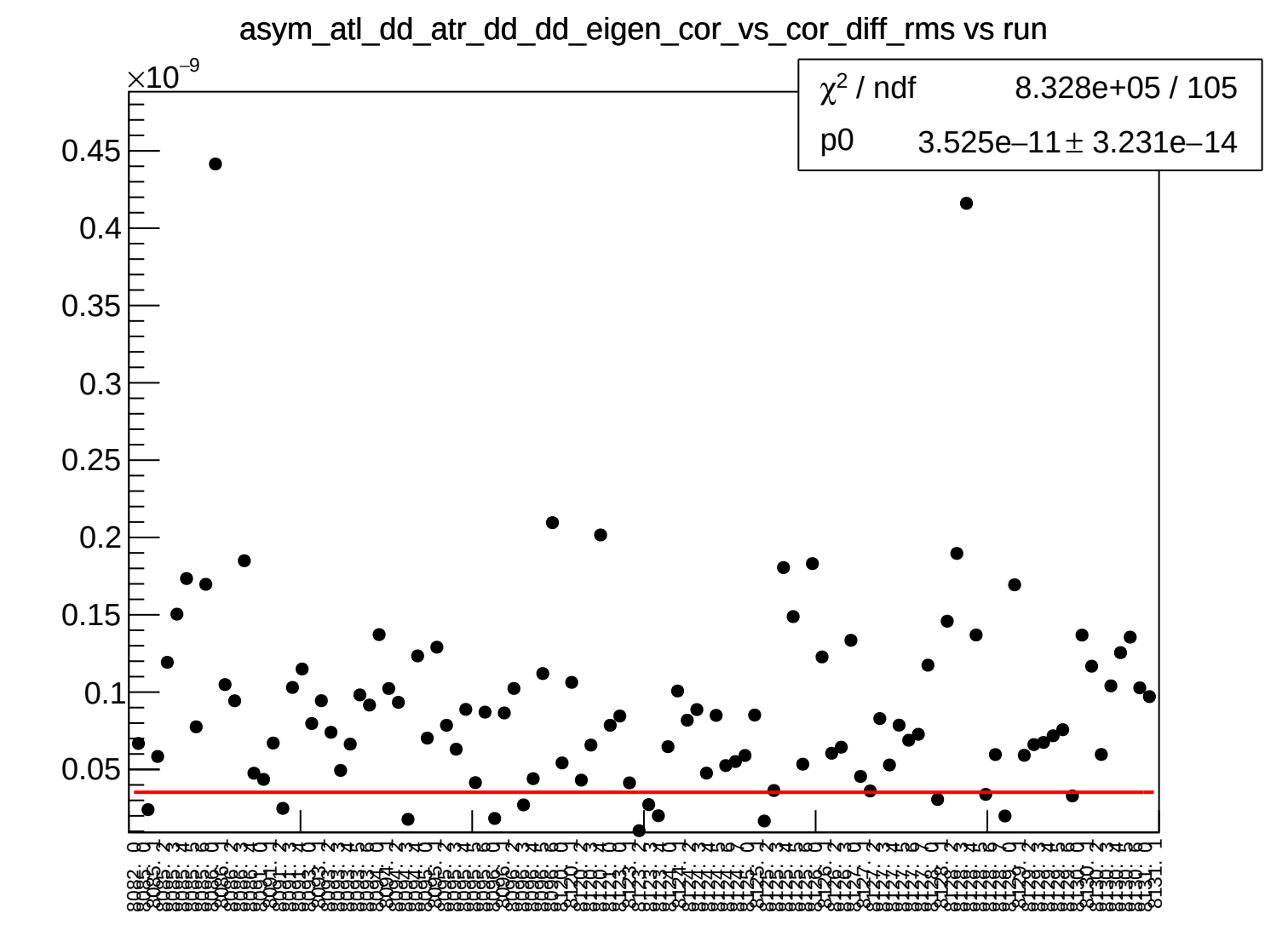

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.642e+05 / 105
p0 27.38 ± 0.02267
1200
1000
800
600
400
200

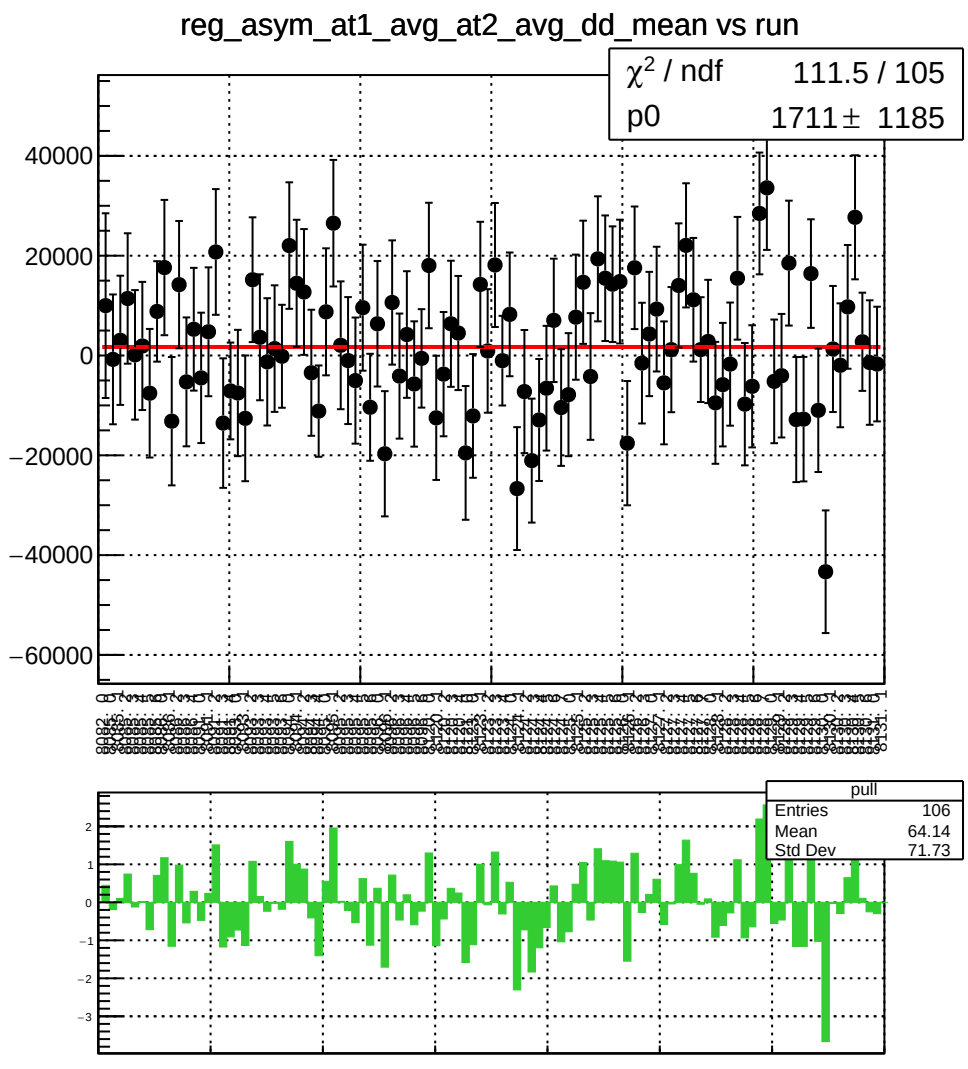

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.2 / 105
p0 0.0034 ± 0.03205
pull
Entries 106
Mean 158.9
Std Dev 0
pull1D
Entries 106
Mean 0.0272
Std Dev 1.001

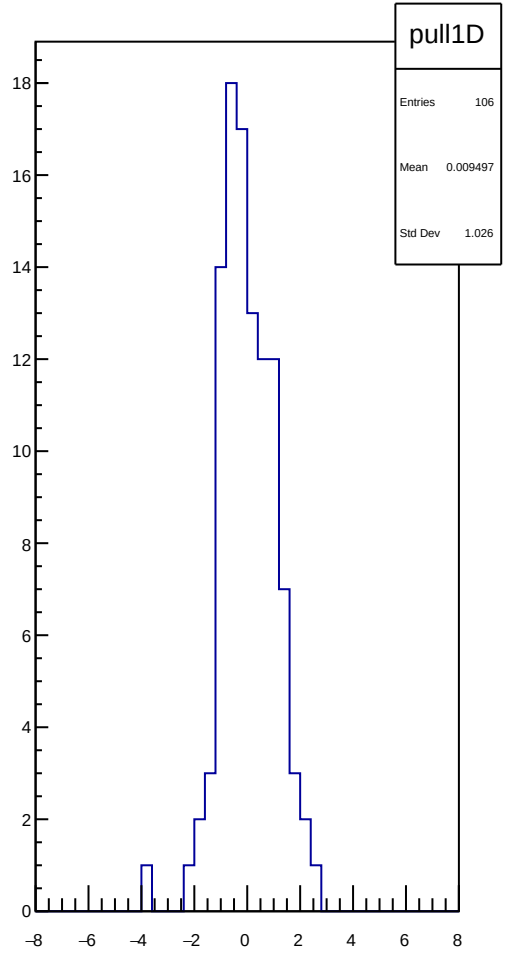

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.642e+05 / 105
p0 27.38 ± 0.02267
1200
1000
800
600
400
200

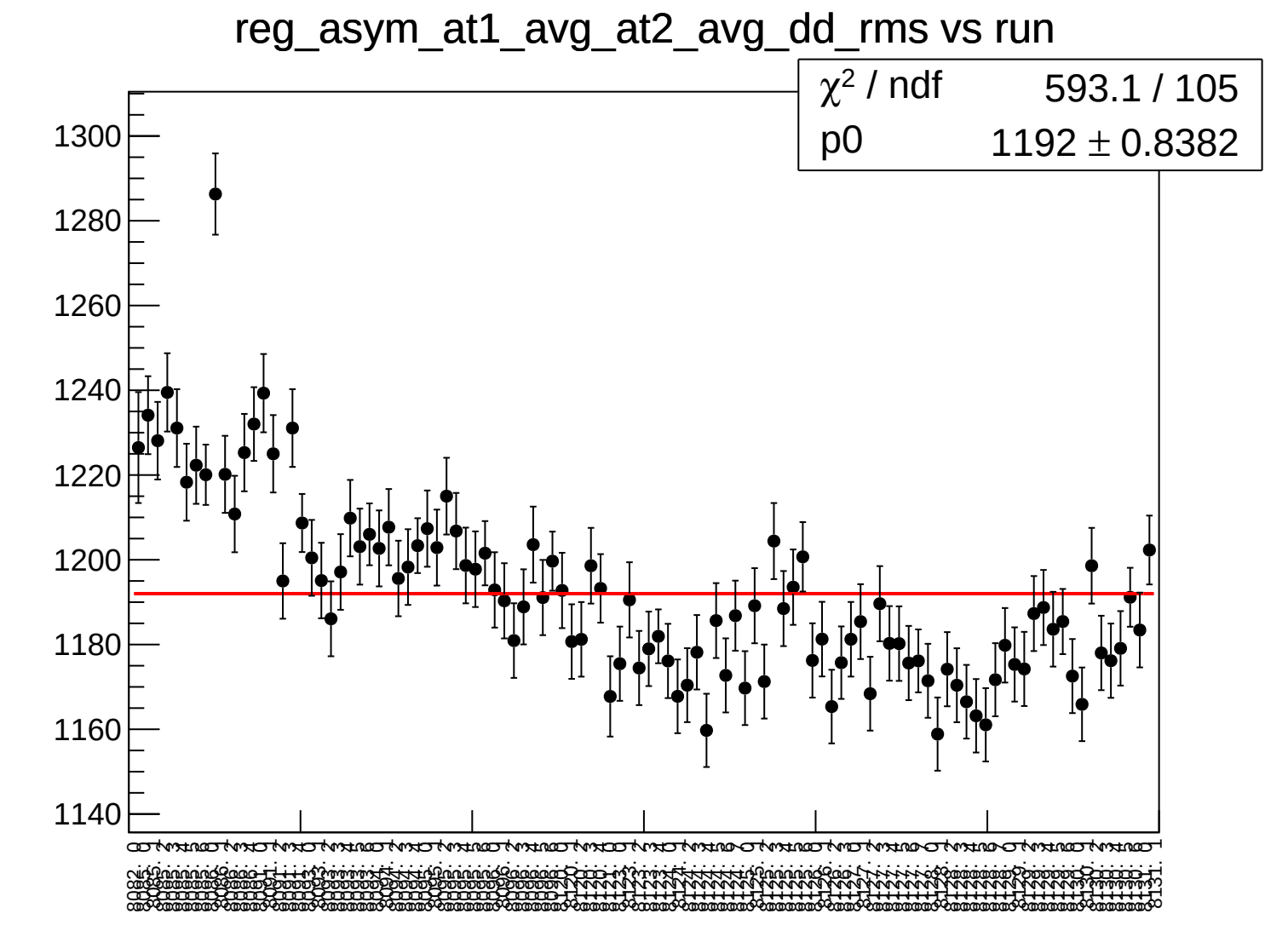

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 68.14 / 105
p0 8.015e−14 ± 4.569e−14
pull
Entries 106
Mean 43.41
Std Dev 6.329

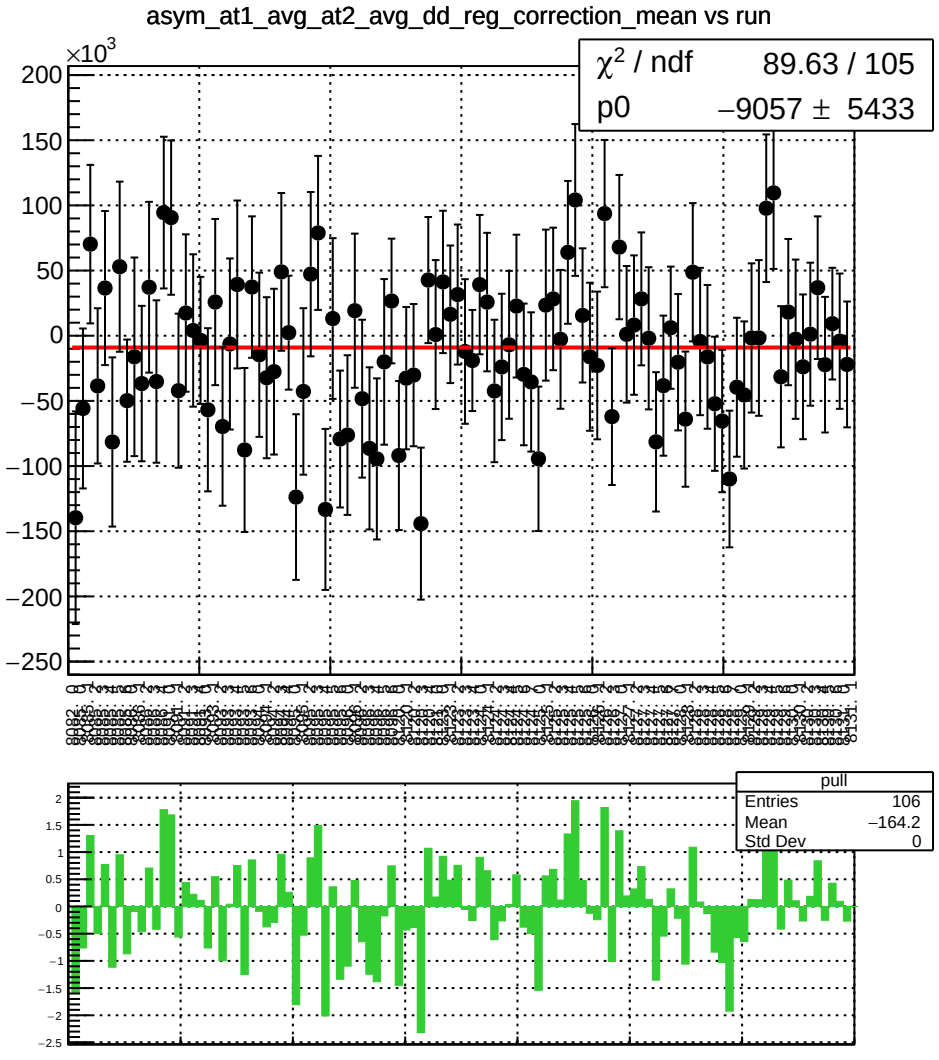

pull1D
Entries 106
Mean 0.1015
Std Dev 0.7953

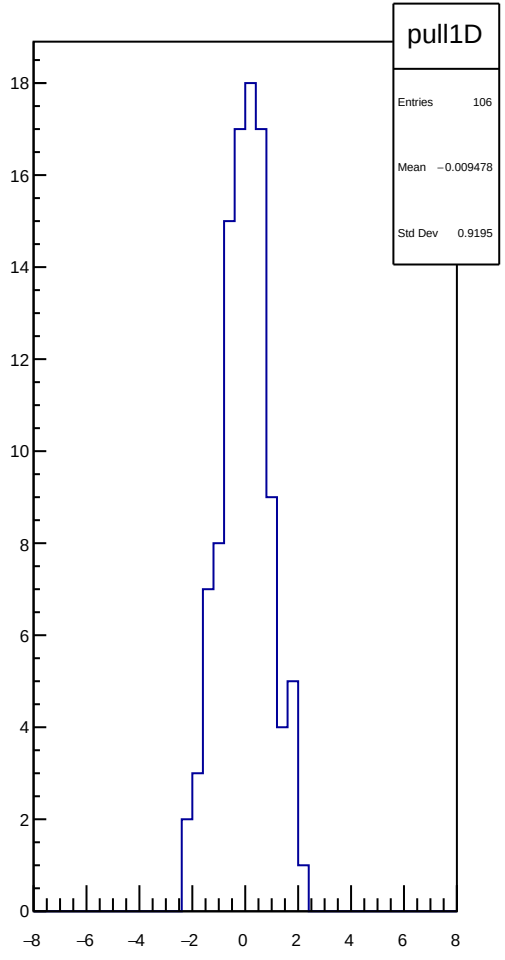

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.328e+05 / 105
p0 3.525e−11 ± 3.231e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

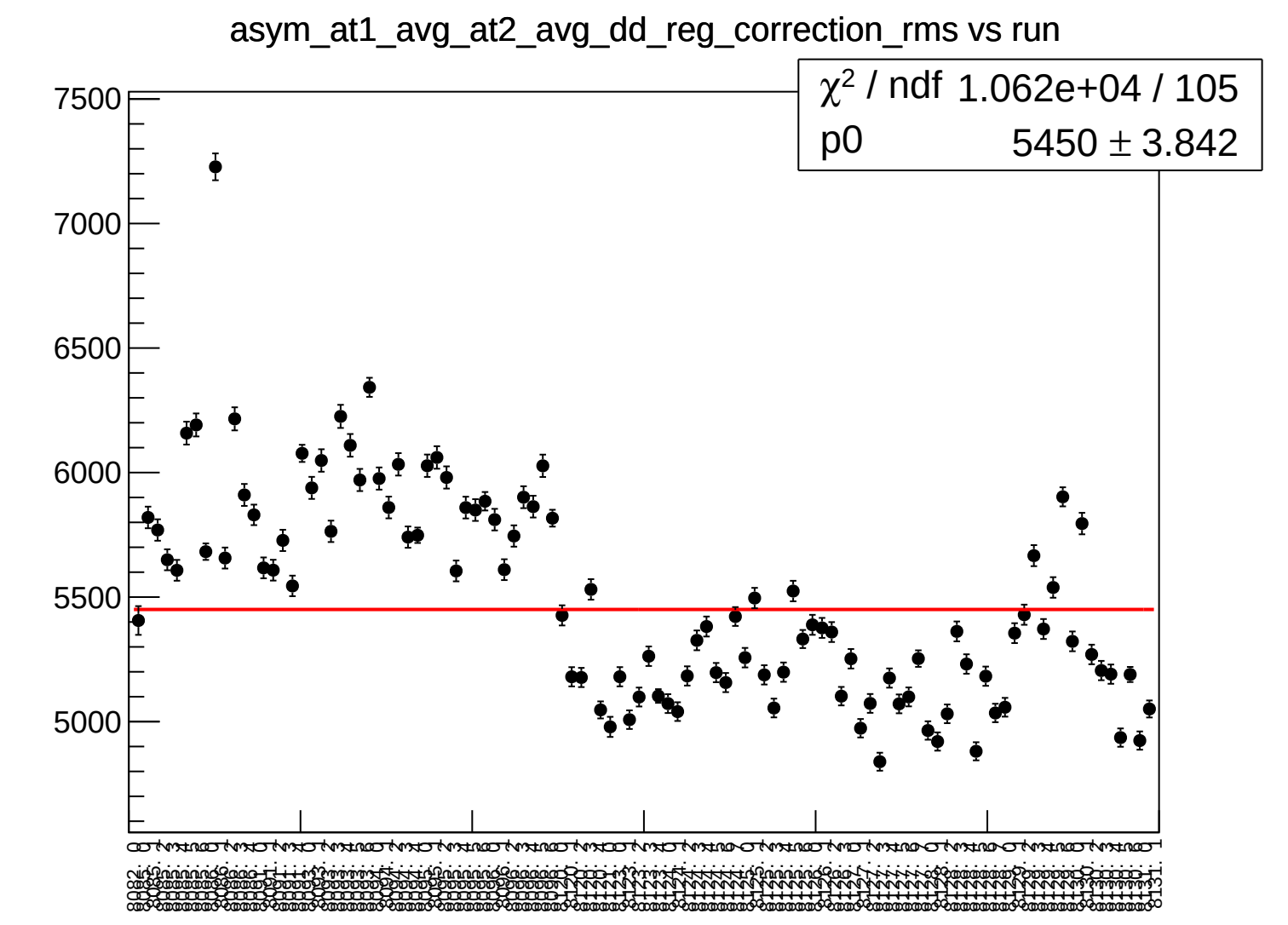

reg_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 111.5 / 105
p0 1711 ± 1185
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean 64.14
Std Dev 71.73
2
1
0
−1
−2
−3

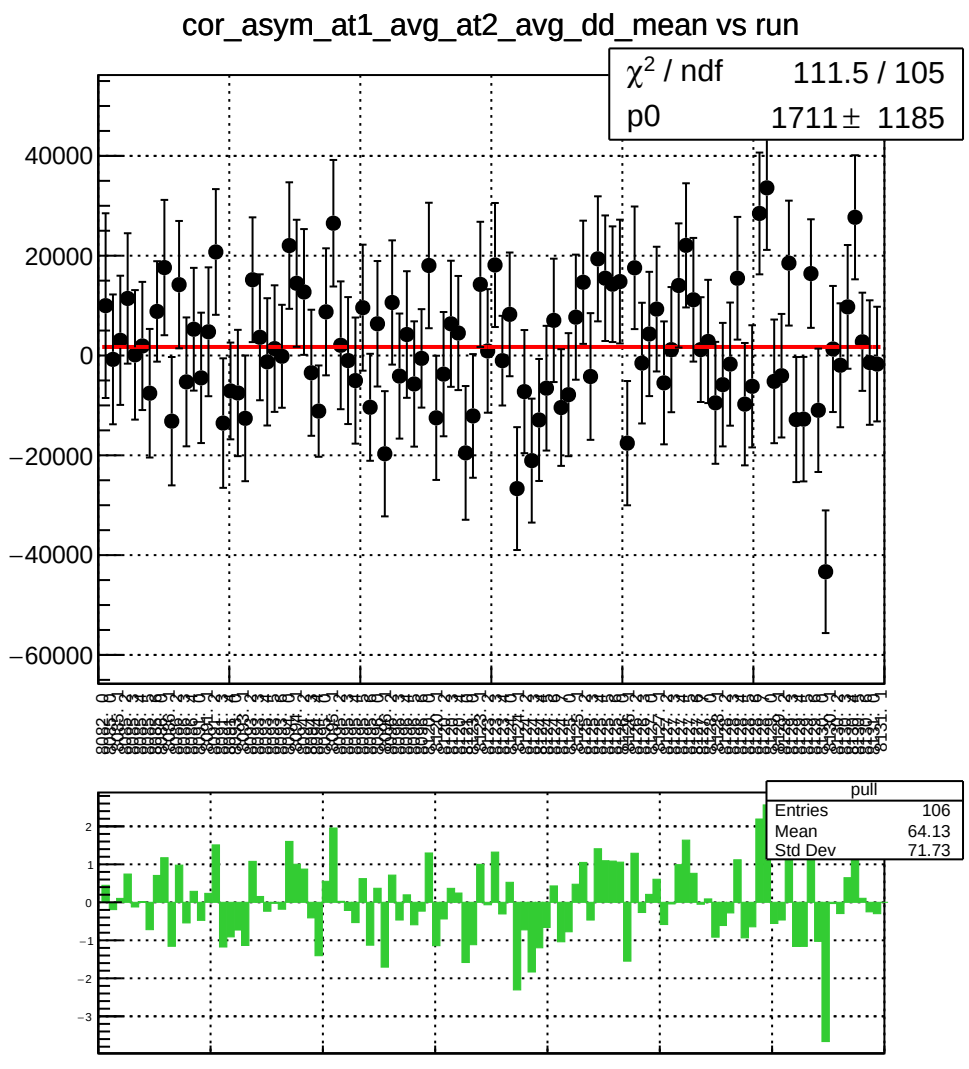

pull1D
Entries 106
Mean 0.009497
Std Dev 1.026
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

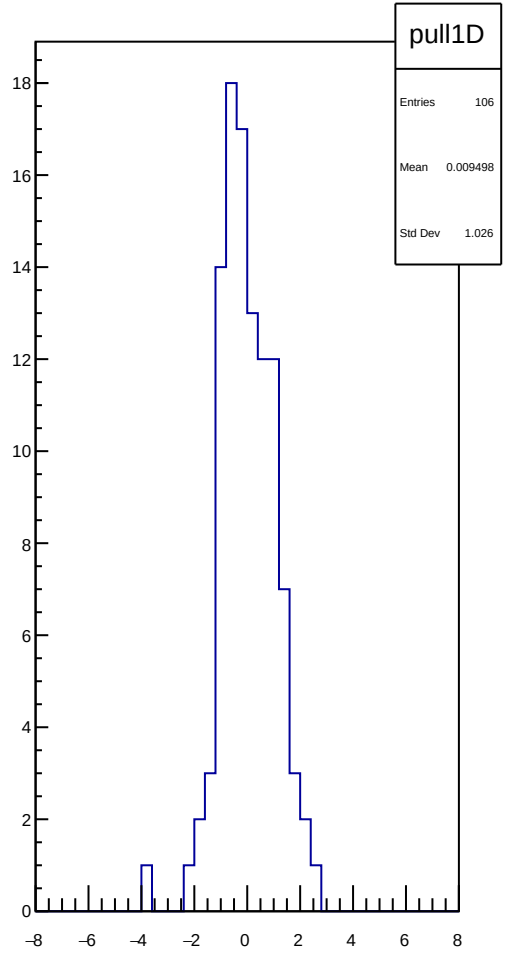

reg_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 593.1 / 105
p0 1192 ± 0.8382
1300
1280
1260
1240
1220
1200
1180
1160
1140

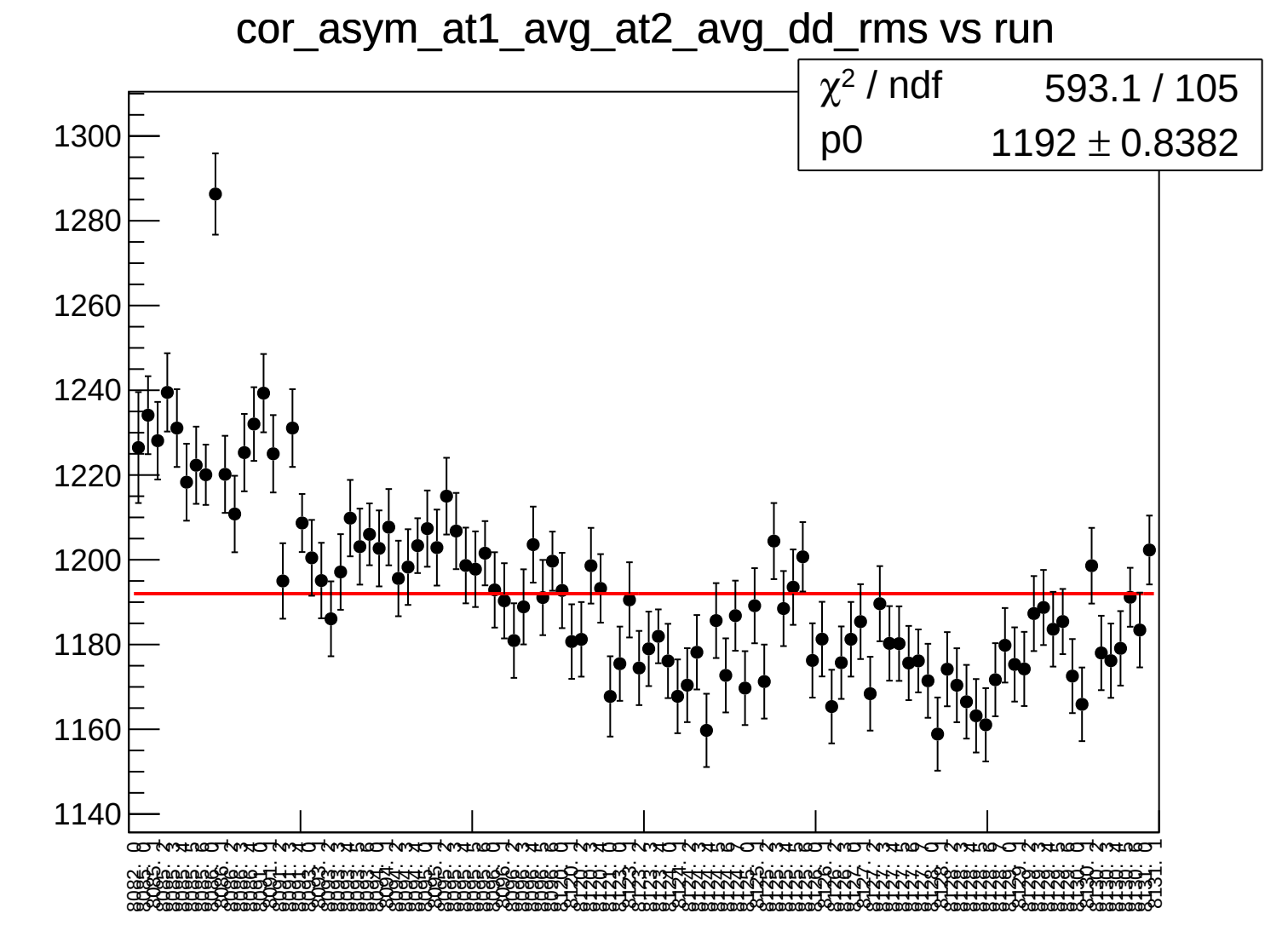

asym_at1_avg_at2_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 89.63 / 105
p0 −9057 ± 5433
pull
Entries 106
Mean −164.2
Std Dev 0

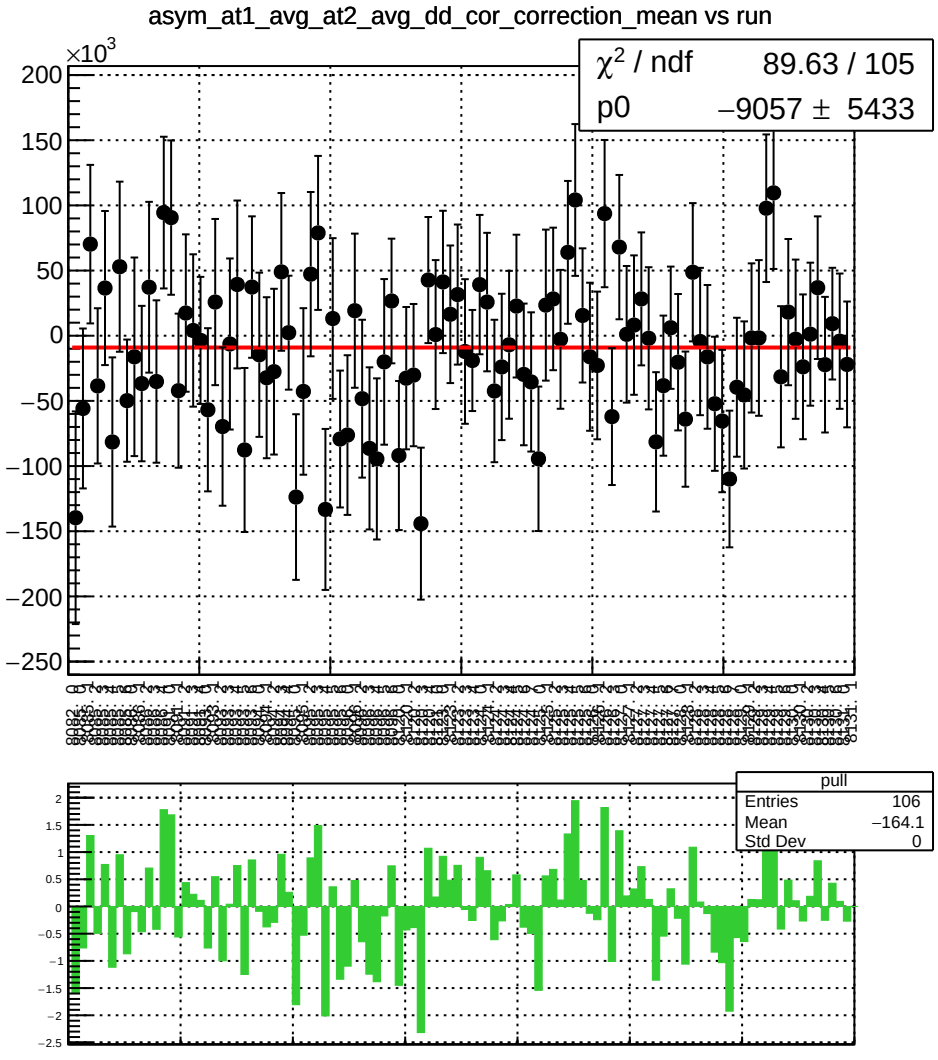

pull1D
Entries 106
Mean −0.009478
Std Dev 0.9195

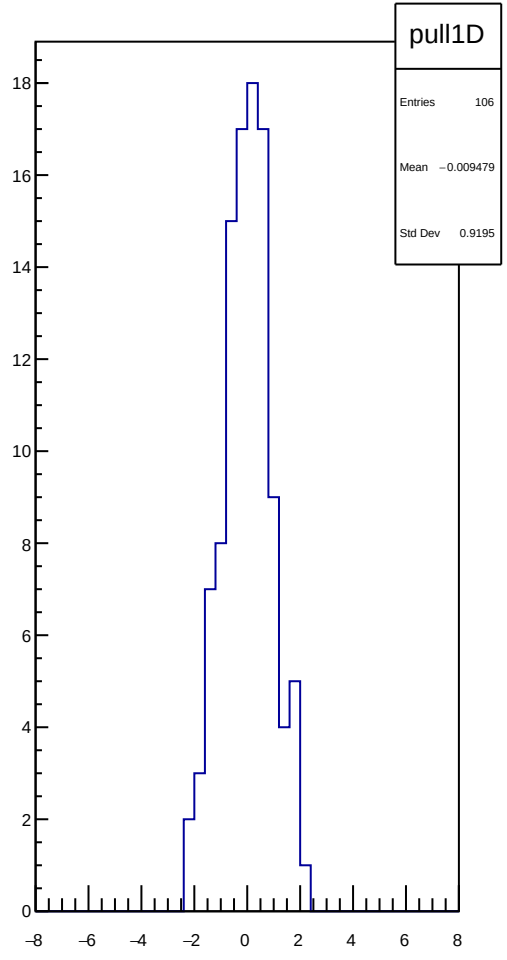

asym_at1_avg_at2_avg_dd_reg_correction_rms vs run
χ² / ndf 1.062e+04 / 105
p0 5450 ± 3.842
7500
7000
6500
6000
5500
5000

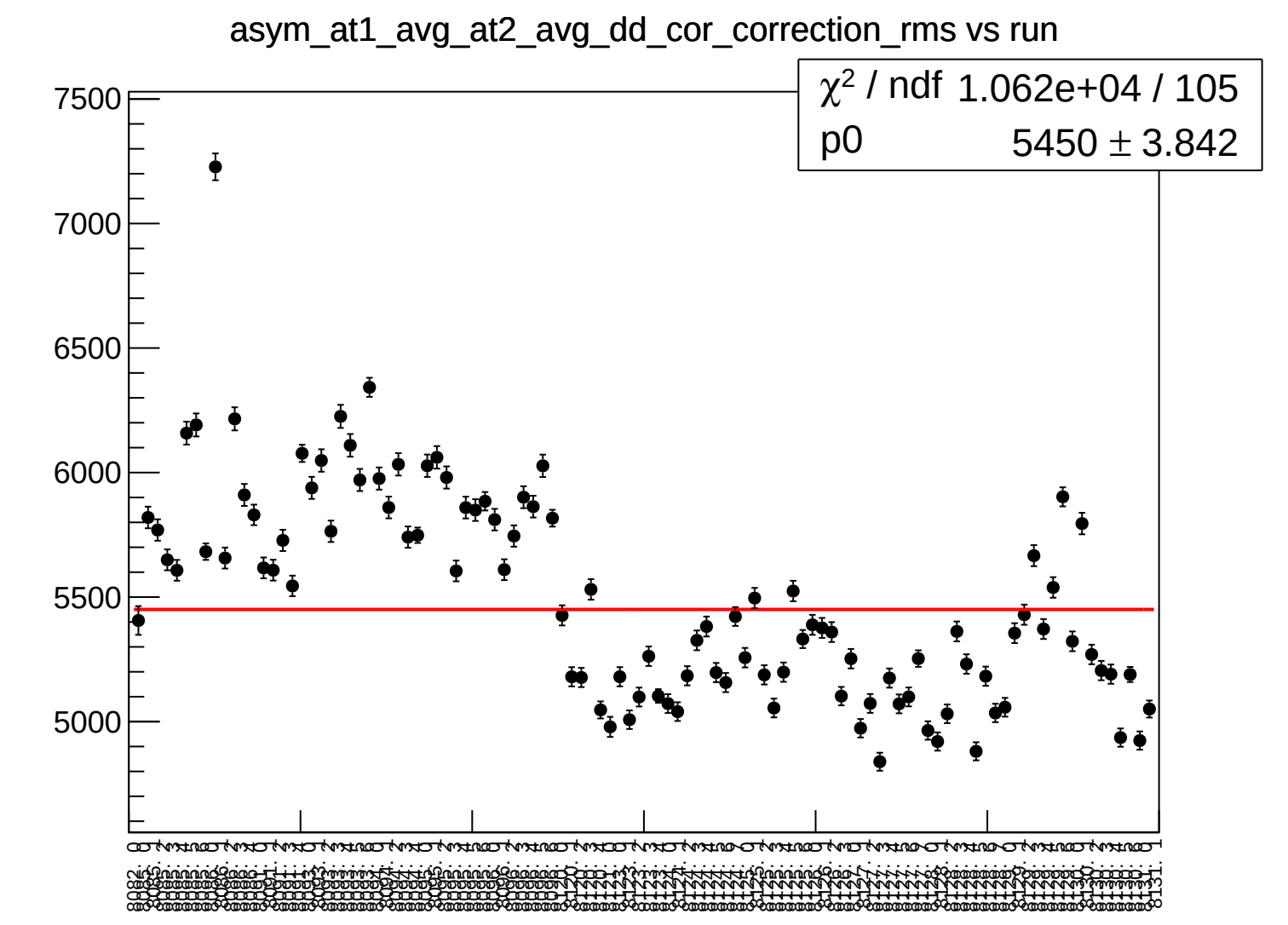

cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 111.5 / 105
p0 1711 ± 1185
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean 64.13
Std Dev 71.73
2
1
0
−1
−2
−3

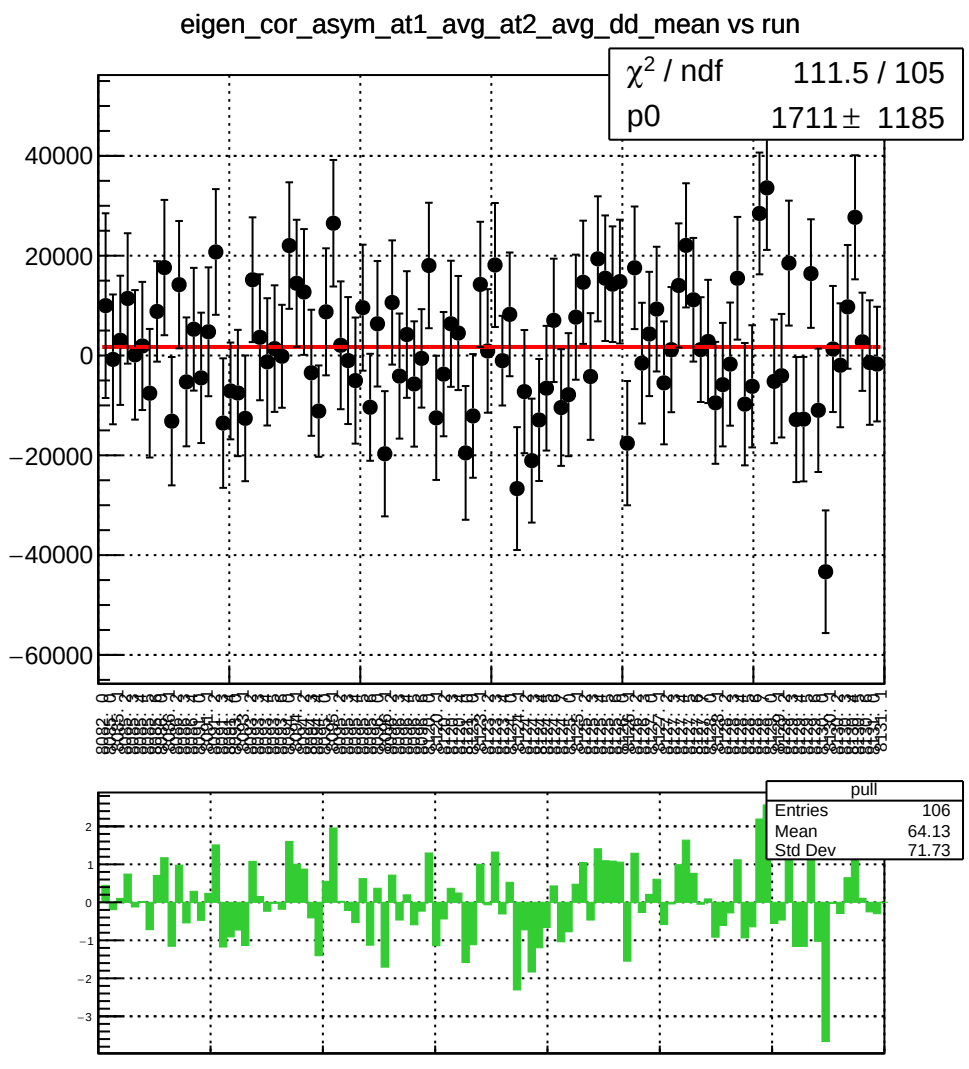

pull1D
Entries 106
Mean 0.009498
Std Dev 1.026
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

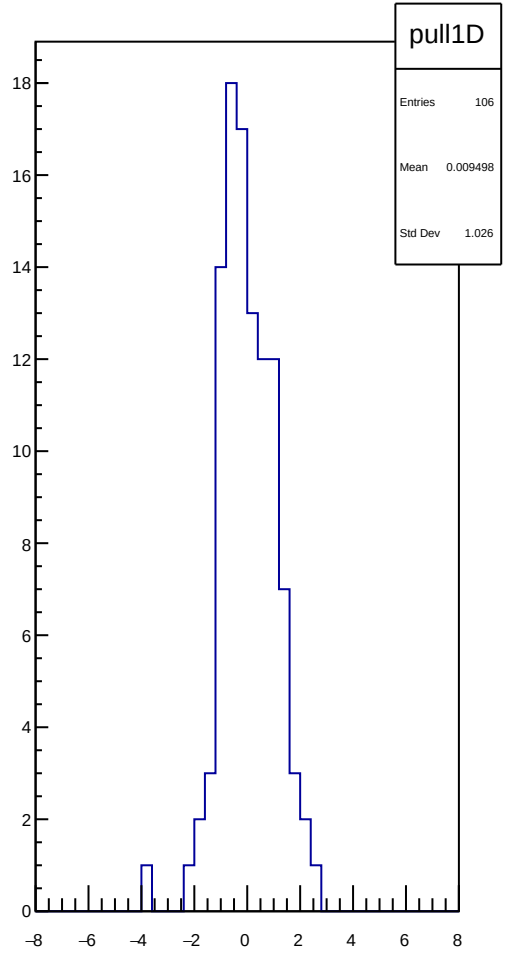

cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 593.1 / 105
p0 1192 ± 0.8382
1300
1280
1260
1240
1220
1200
1180
1160
1140

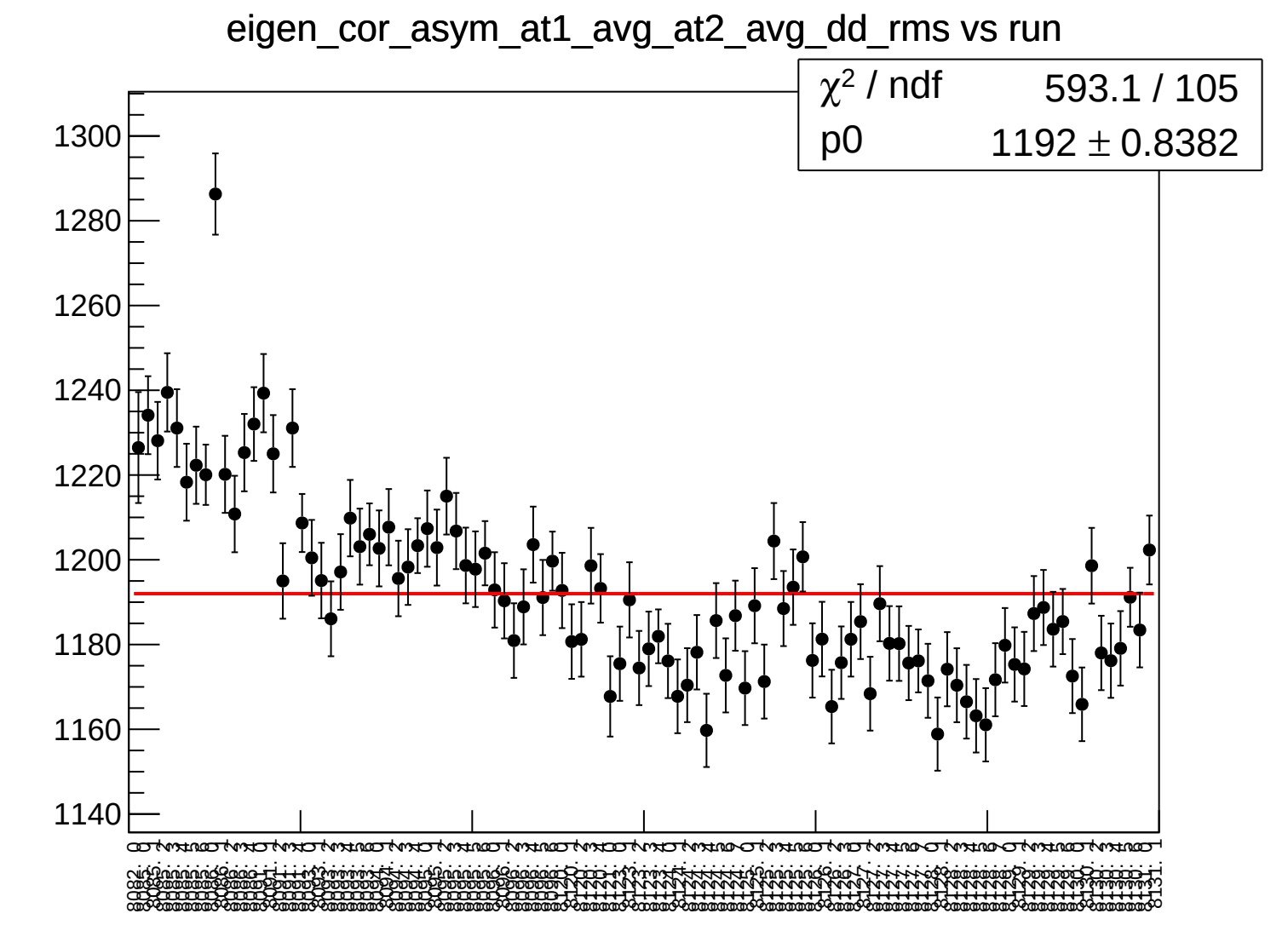

asym_at1_avg_at2_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 89.63 / 105
p0 −9057 ± 5433
pull
Entries 106
Mean −164.1
Std Dev 0

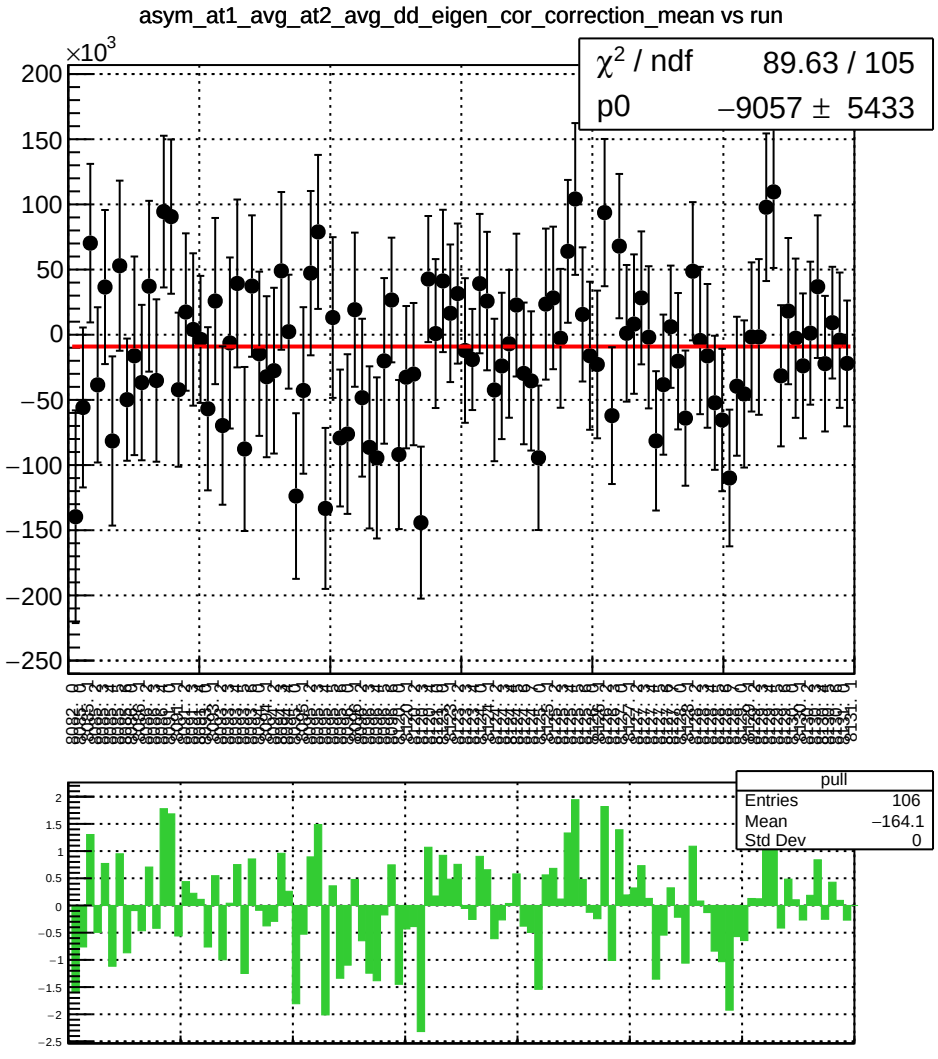

pull1D
Entries 106
Mean −0.009479
Std Dev 0.9195

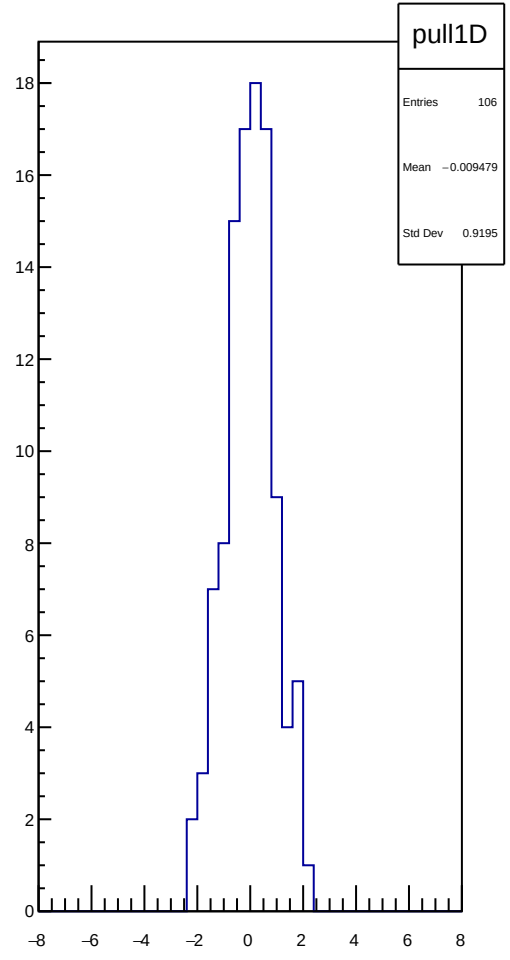

asym_at1_avg_at2_avg_dd_cor_correction_rms vs run
χ² / ndf 1.062e+04 / 105
p0 5450 ± 3.842
7500
7000
6500
6000
5500
5000

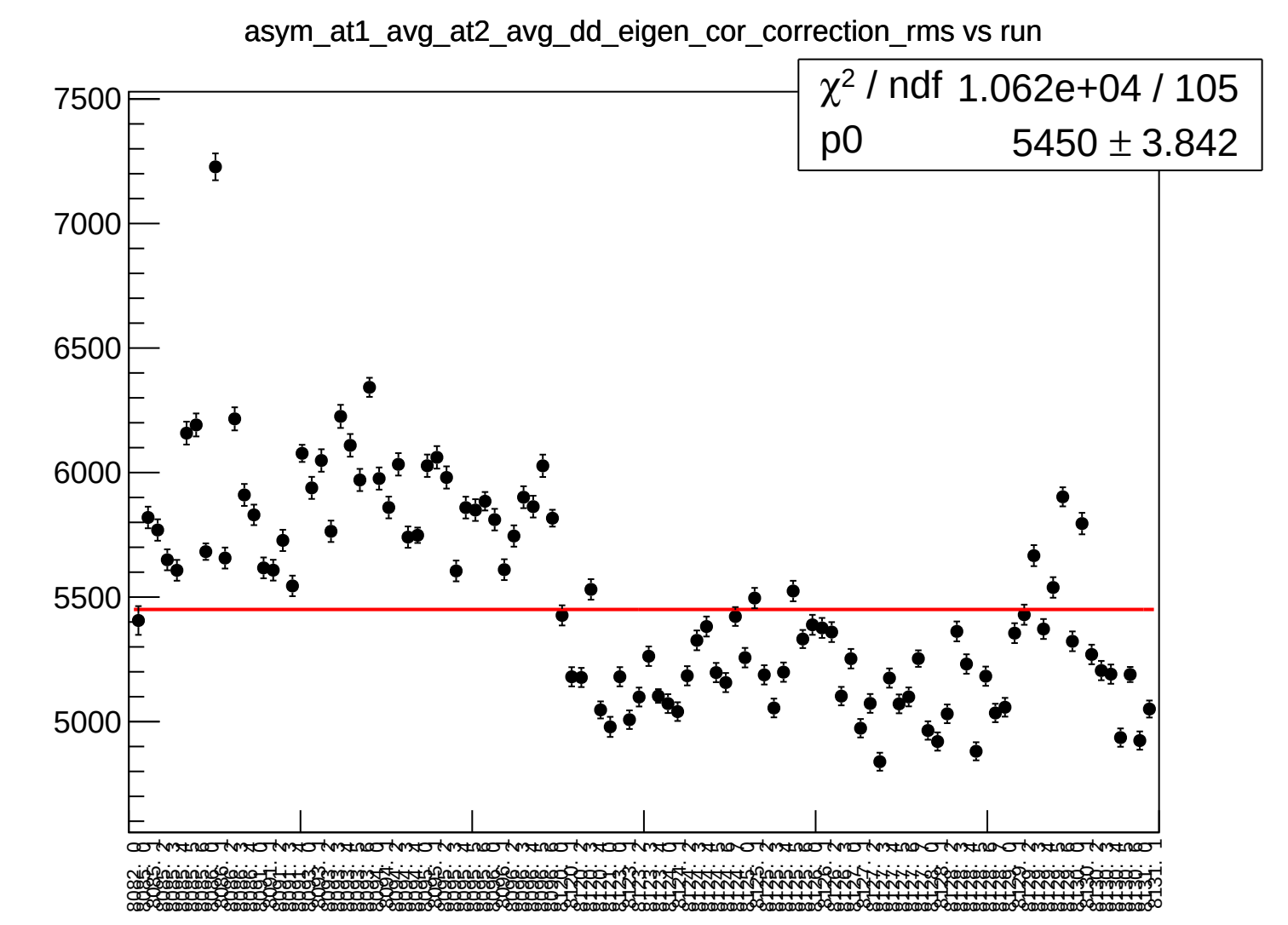

eigen_cor_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 111.5 / 105
p0 1711 ± 1185
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean 64.13
Std Dev 71.73
2
1
0
−1
−2
−3

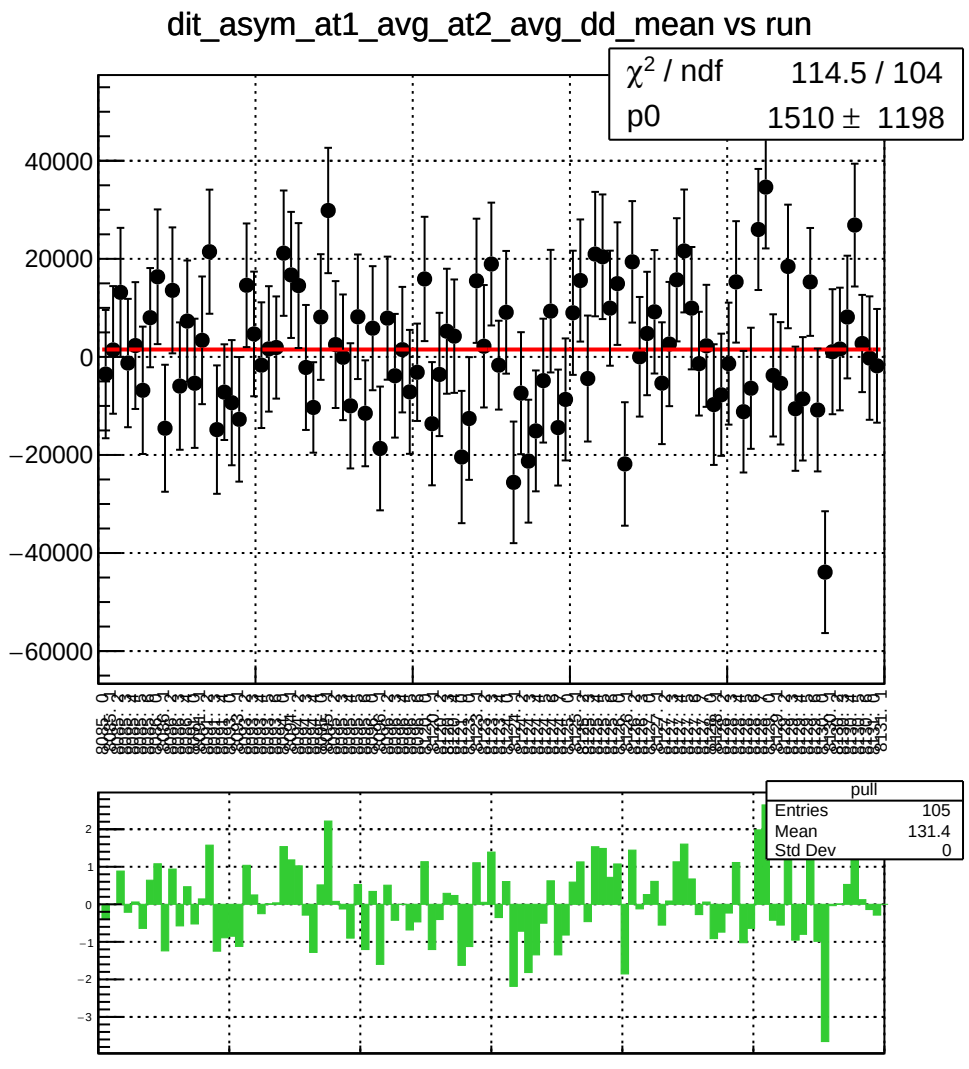

pull1D
Entries 106
Mean 0.009498
Std Dev 1.026
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

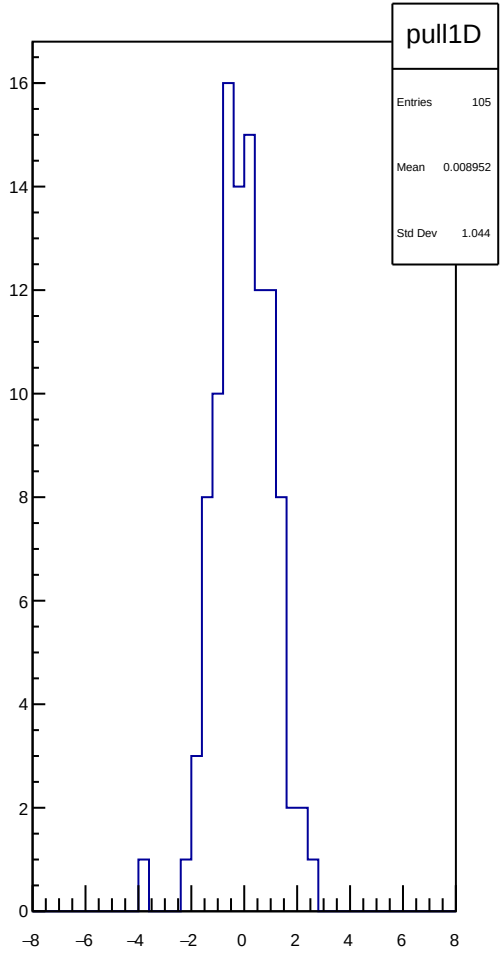

eigen_cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 593.1 / 105
p0 1192 ± 0.8382
1300
1280
1260
1240
1220
1200
1180
1160
1140

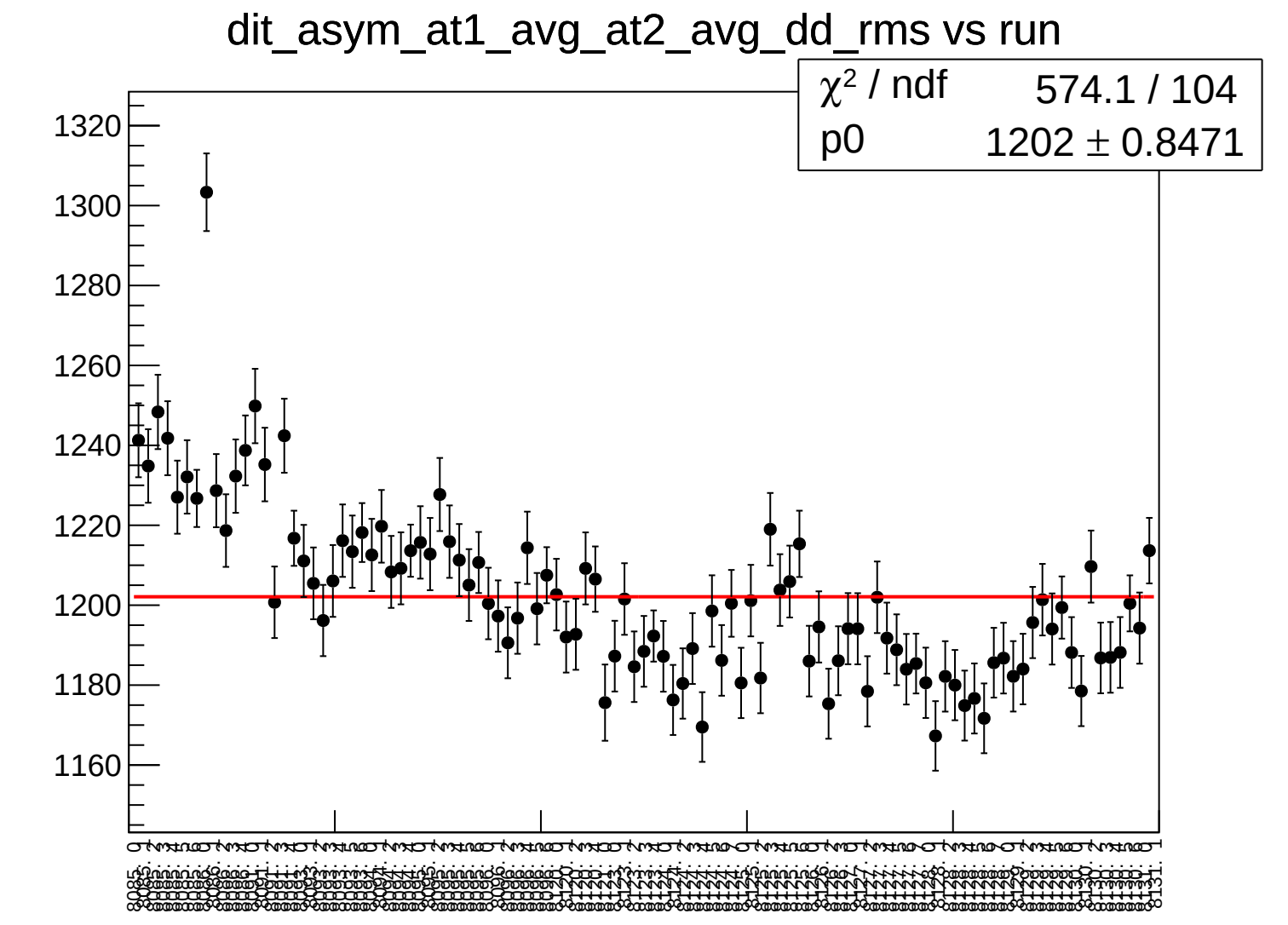

asym_at1_avg_at2_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 89.63 / 105
p0 −9057 ± 5433
pull
Entries 106
Mean −164.1
Std Dev 0

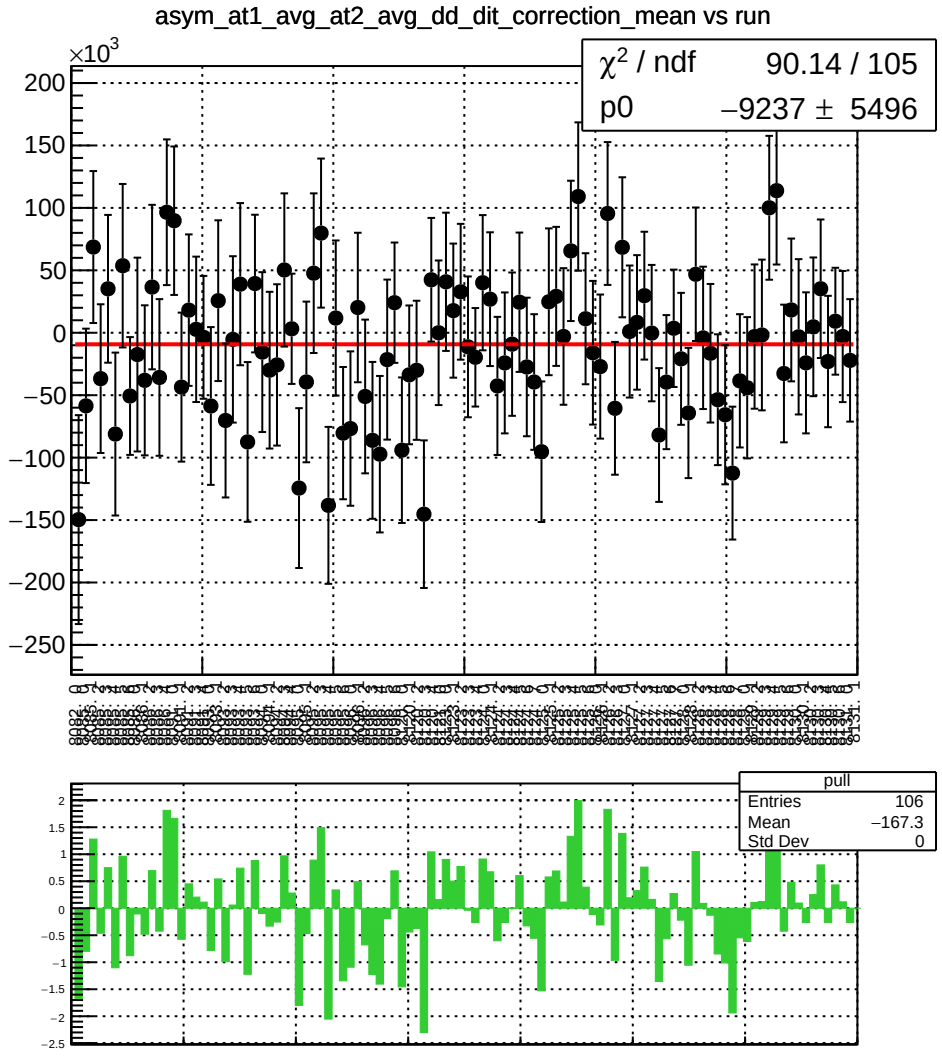

pull1D
Entries 106
Mean −0.009479
Std Dev 0.9195

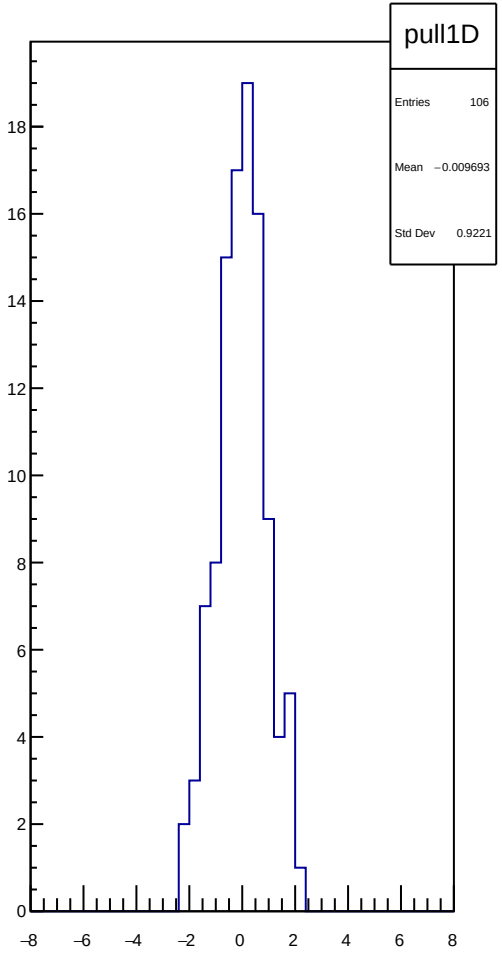

asym_at1_avg_at2_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.062e+04 / 105
p0 5450 ± 3.842
7500
7000
6500
6000
5500
5000

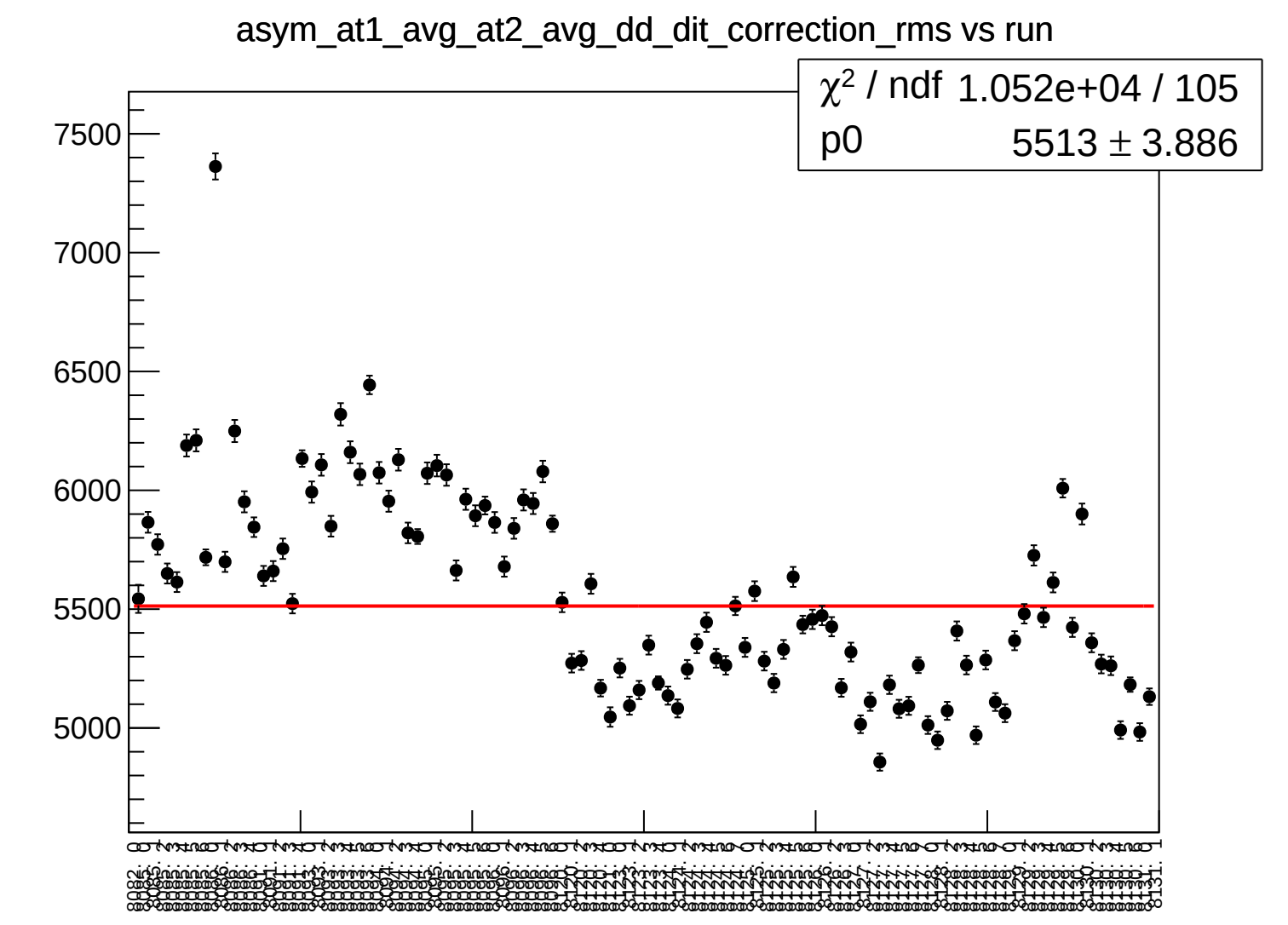

dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 114.5 / 104
p0 1510 ± 1198
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean 131.4
Std Dev 0
2
1
0
−1
−2
−3

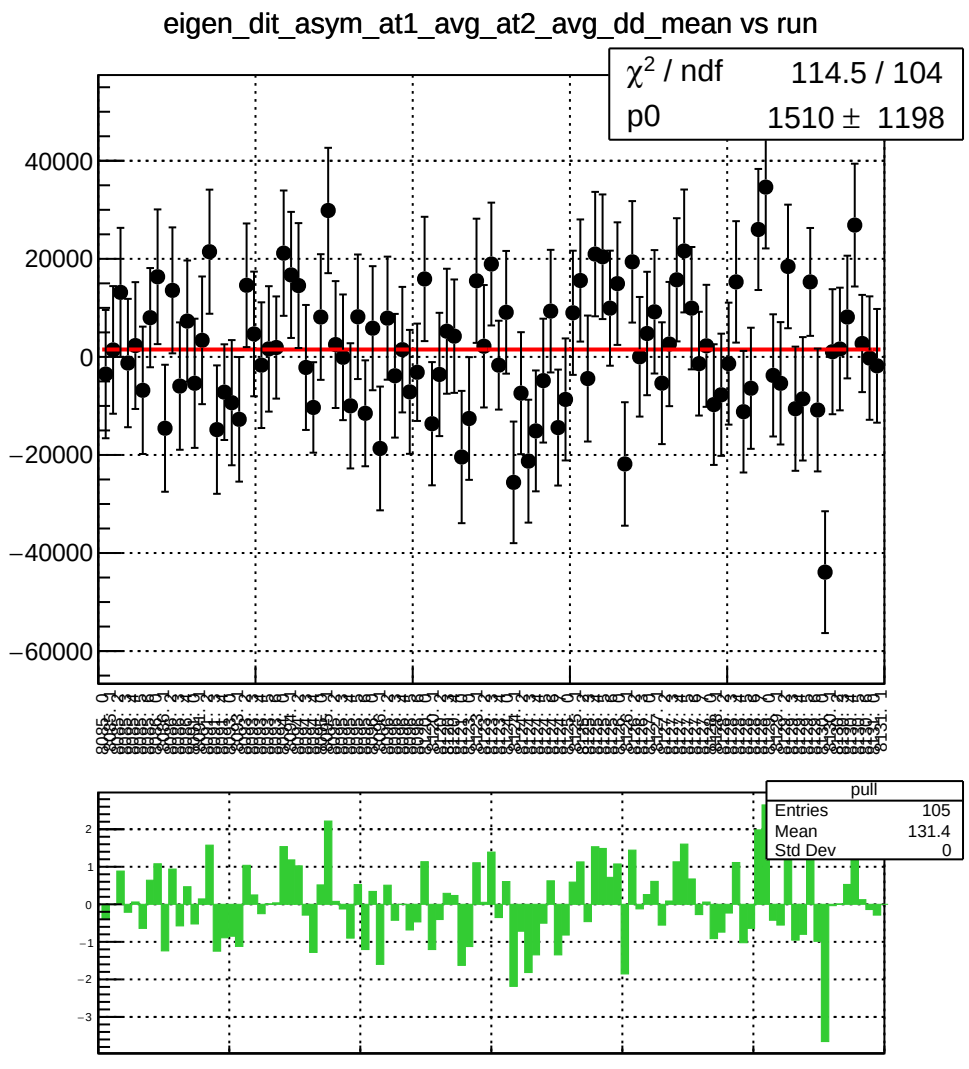

pull1D
Entries 105
Mean 0.008952
Std Dev 1.044
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

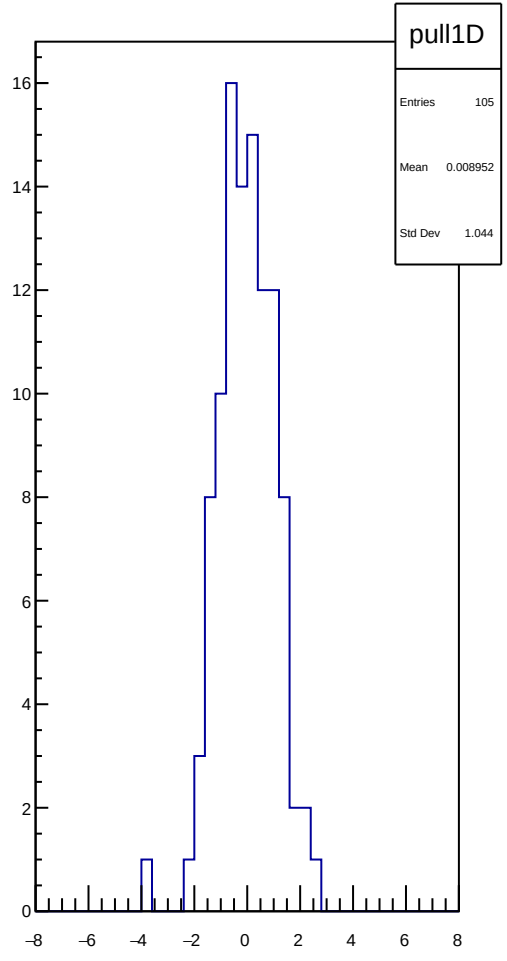

dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 574.1 / 104
p0 1202 ± 0.8471
1320
1300
1280
1260
1240
1220
1200
1180
1160

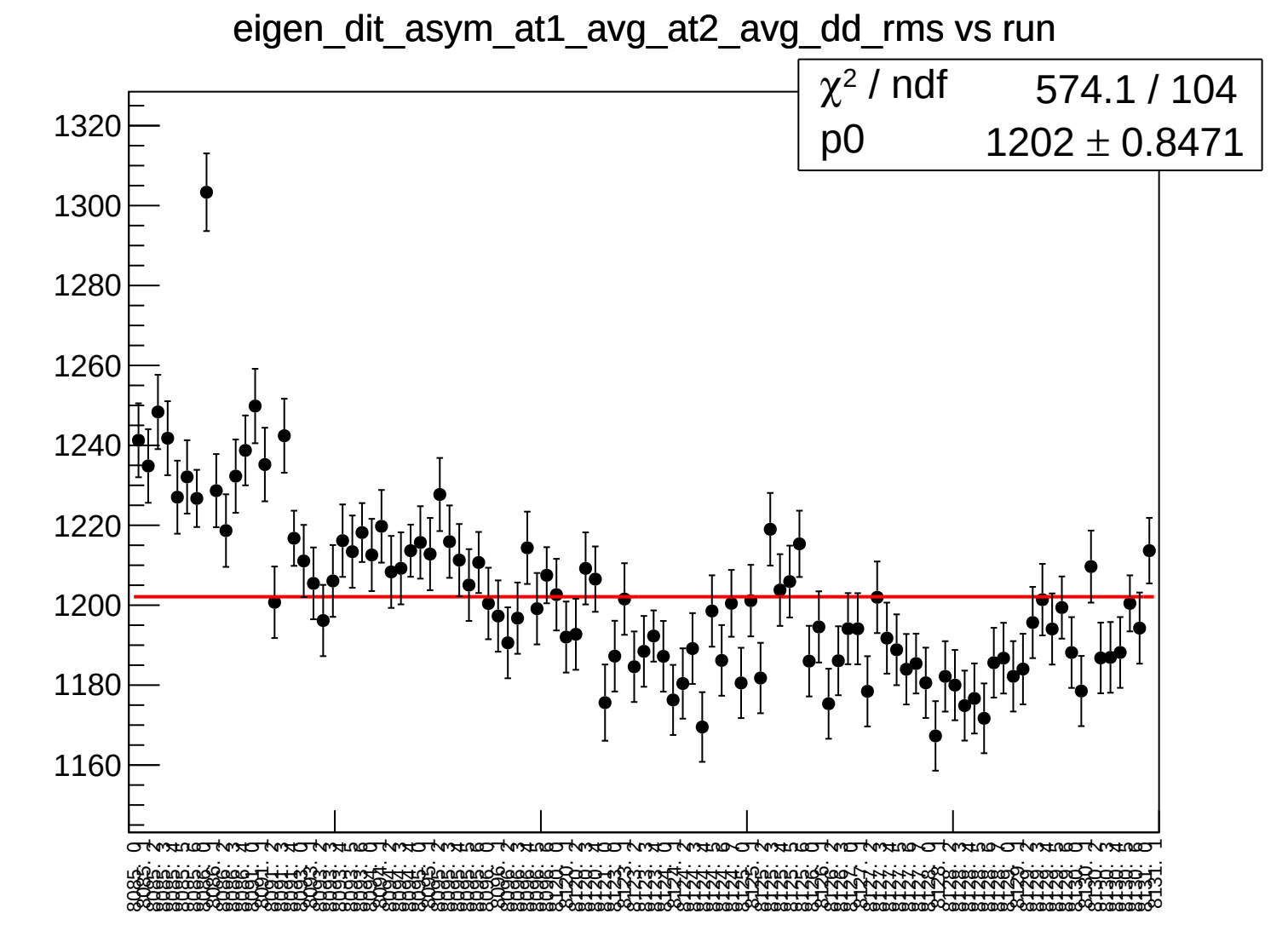

asym_at1_avg_at2_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 90.14 / 105
p0 −9237 ± 5496
pull
Entries 106
Mean −167.3
Std Dev 0

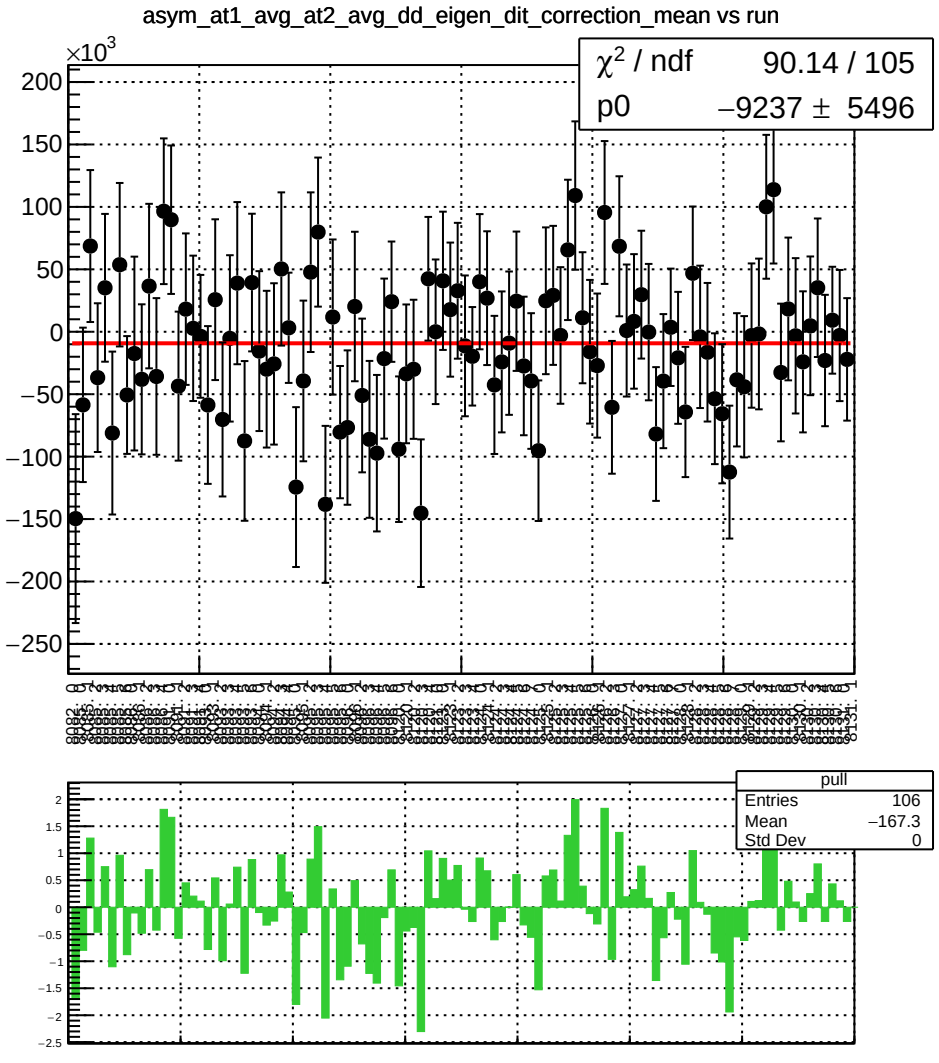

pull1D
Entries 106
Mean −0.009693
Std Dev 0.9221

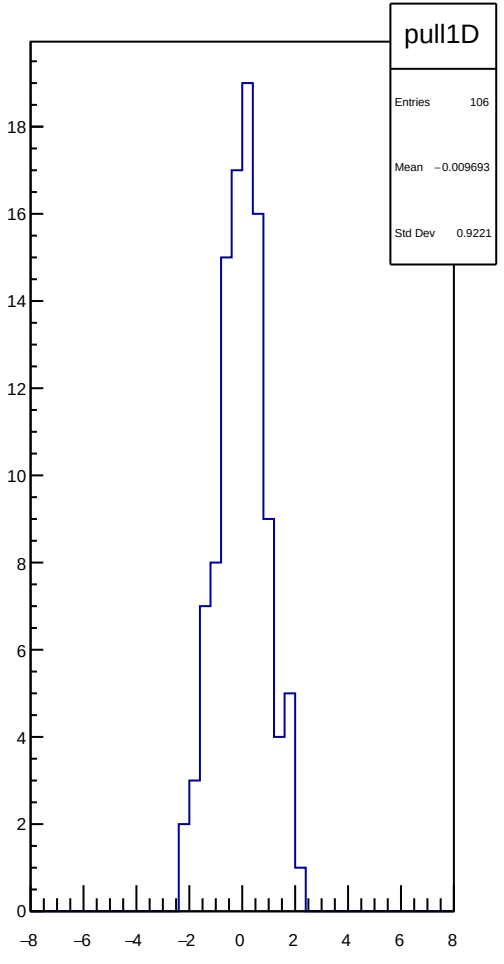

asym_at1_avg_at2_avg_dd_dit_correction_rms vs run
χ² / ndf 1.052e+04 / 105
p0 5513 ± 3.886
7500
7000
6500
6000
5500
5000

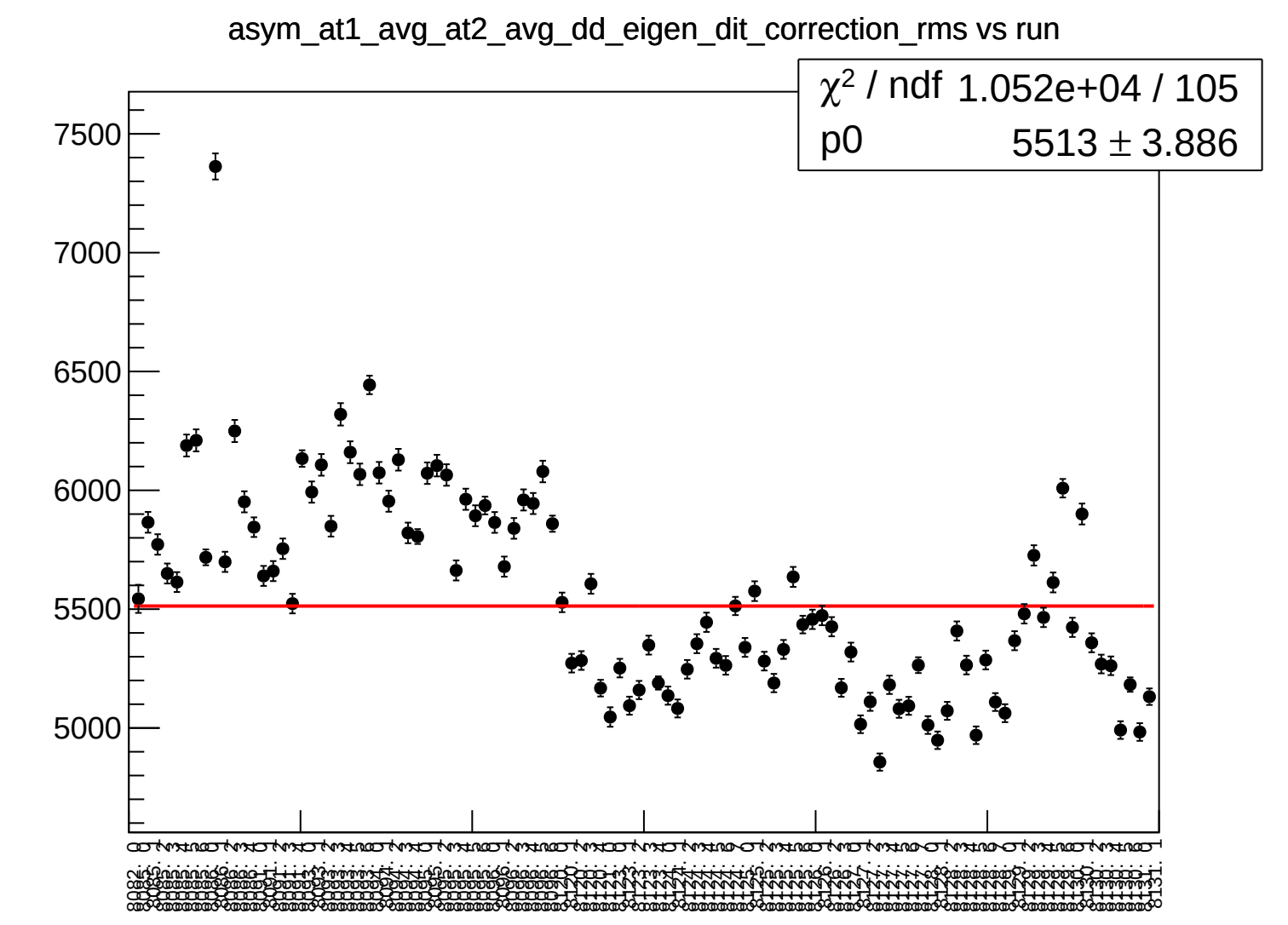

eigen_dit_asym_at1_avg_at2_avg_dd_mean vs run
χ² / ndf 114.5 / 104
p0 1510 ± 1198
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean 131.4
Std Dev 0
2
1
0
−1
−2
−3

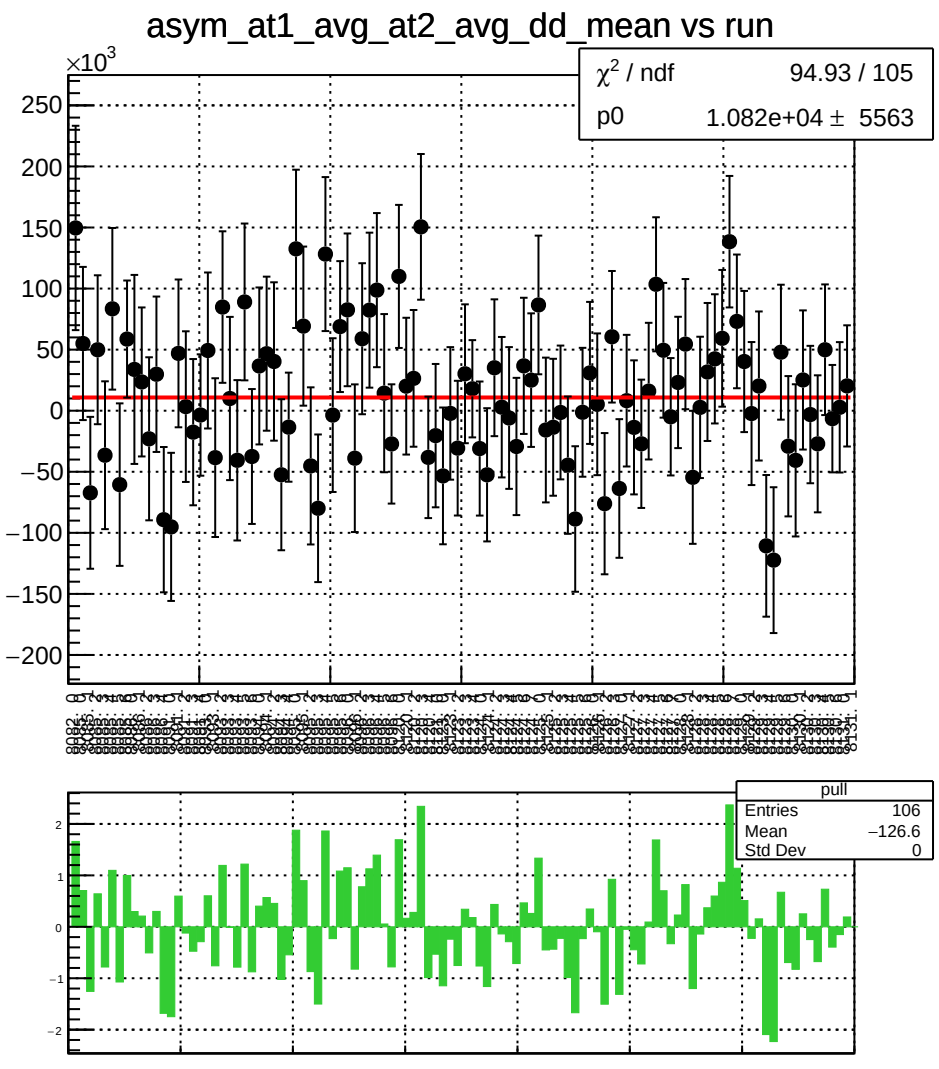

pull1D
Entries 105
Mean 0.008952
Std Dev 1.044
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

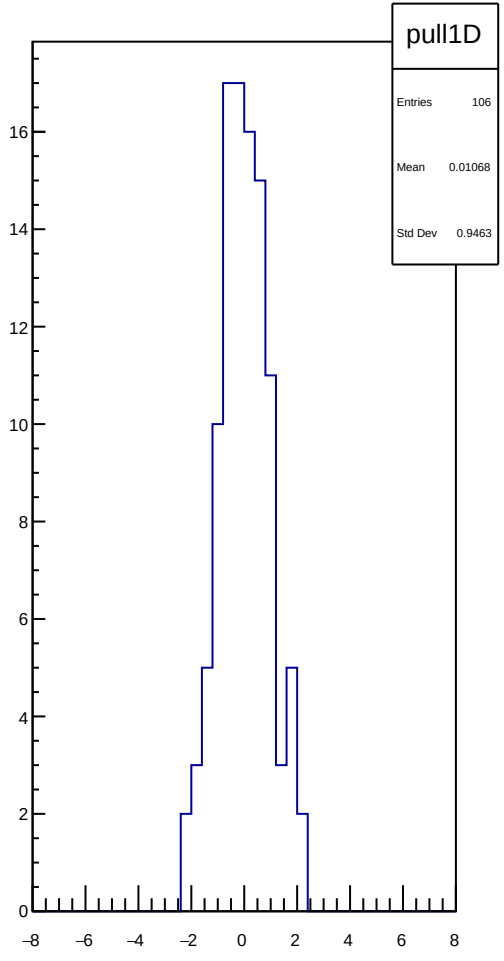

eigen_dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 574.1 / 104
p0 1202 ± 0.8471
1320
1300
1280
1260
1240
1220
1200
1180
1160

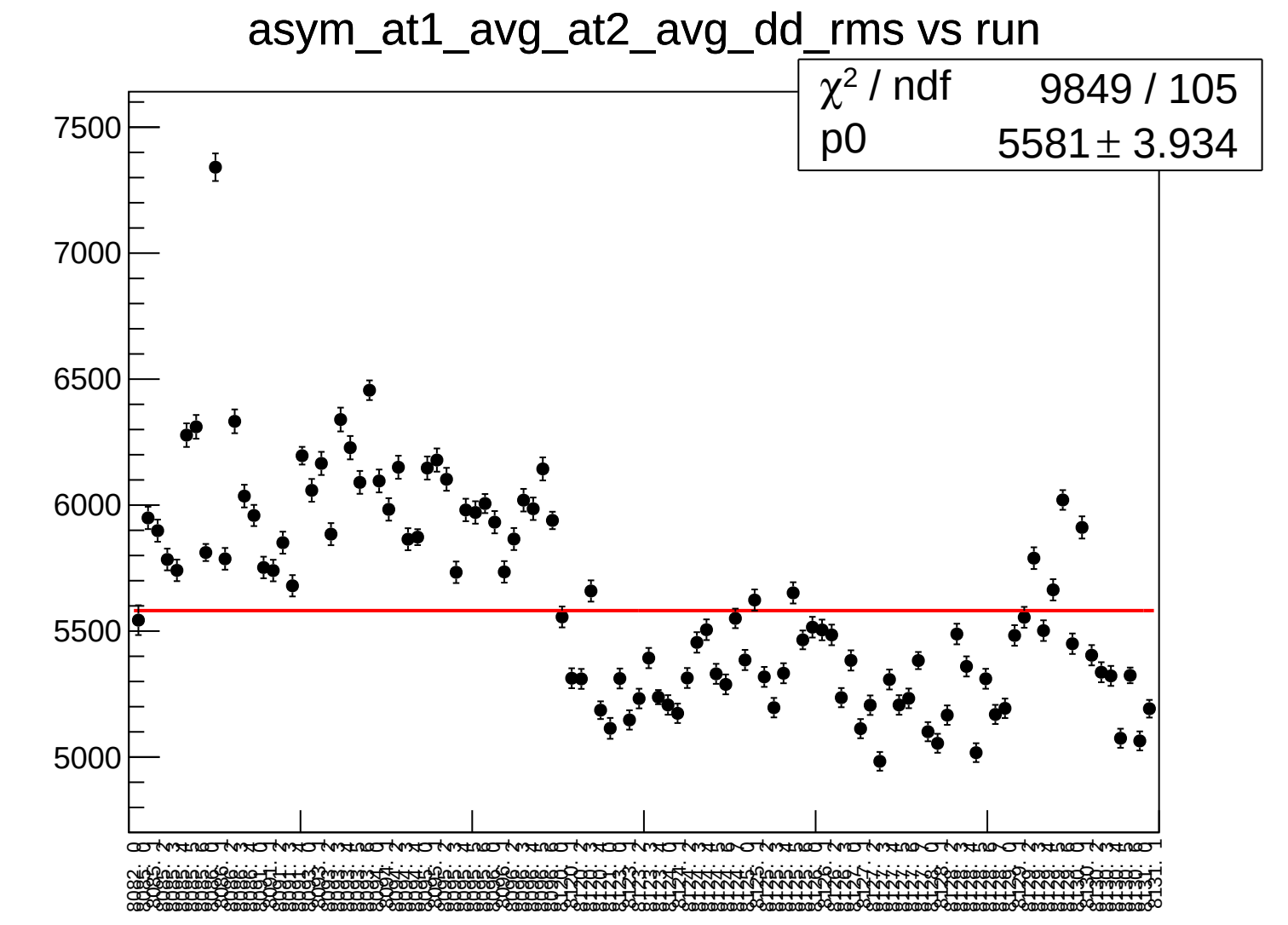

asym_at1_avg_at2_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 90.14 / 105
p0 −9237 ± 5496
pull
Entries 106
Mean −167.3
Std Dev 0

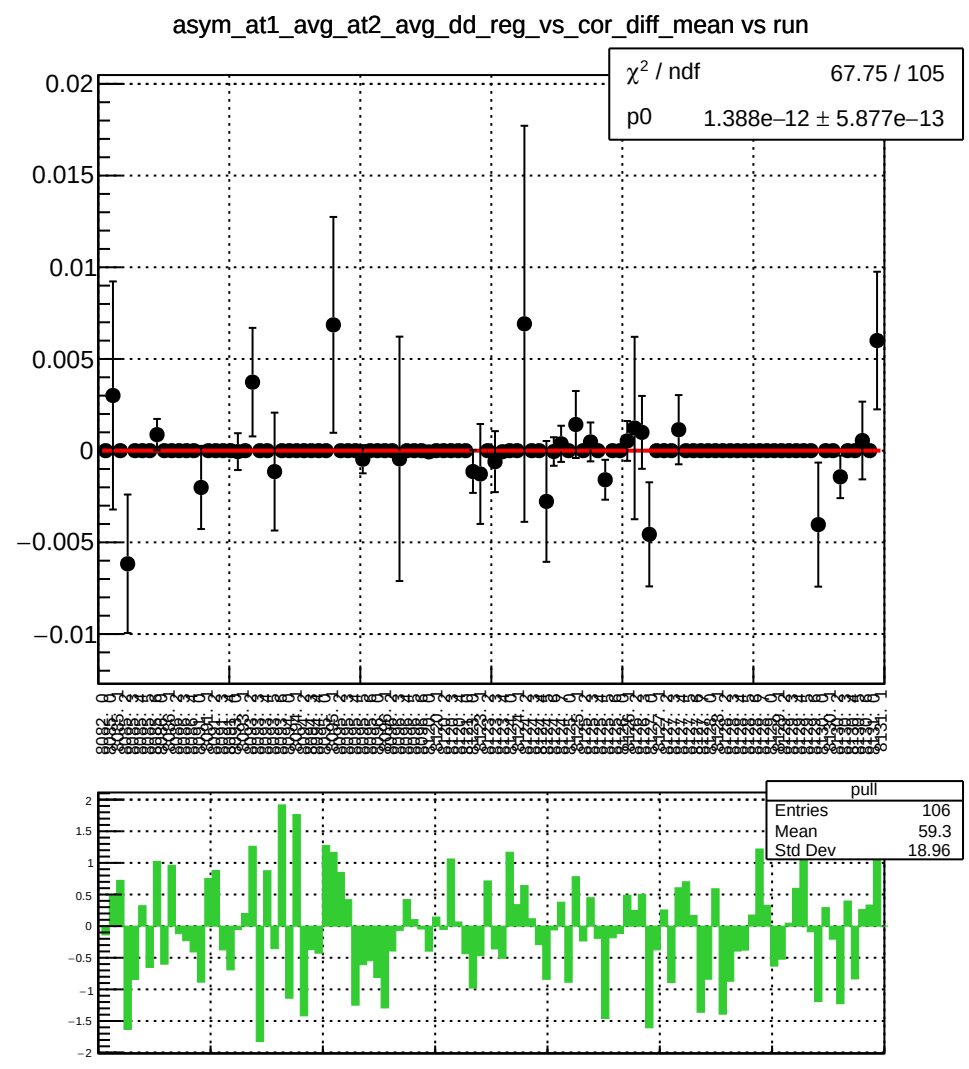

pull1D
Entries 106
Mean −0.009693
Std Dev 0.9221

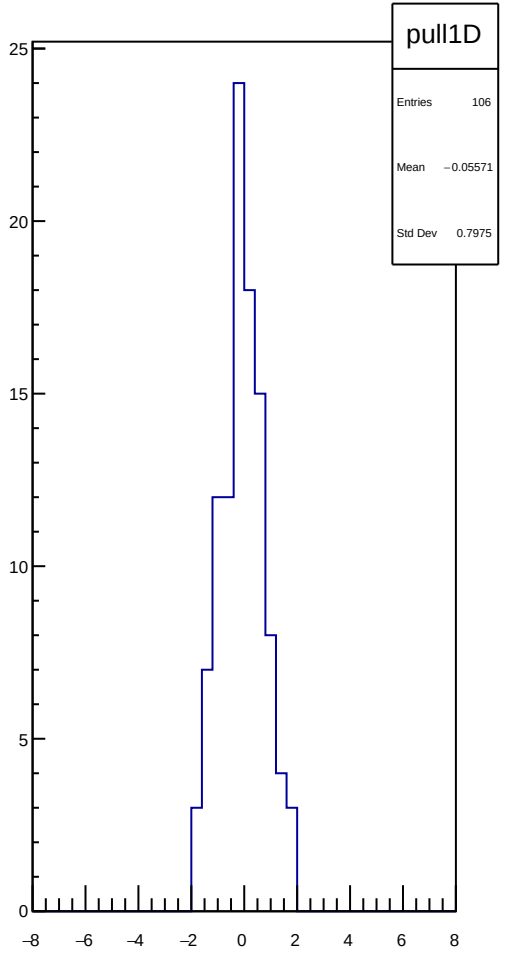

asym_at1_avg_at2_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.052e+04 / 105
p0 5513 ± 3.886
7500
7000
6500
6000
5500
5000

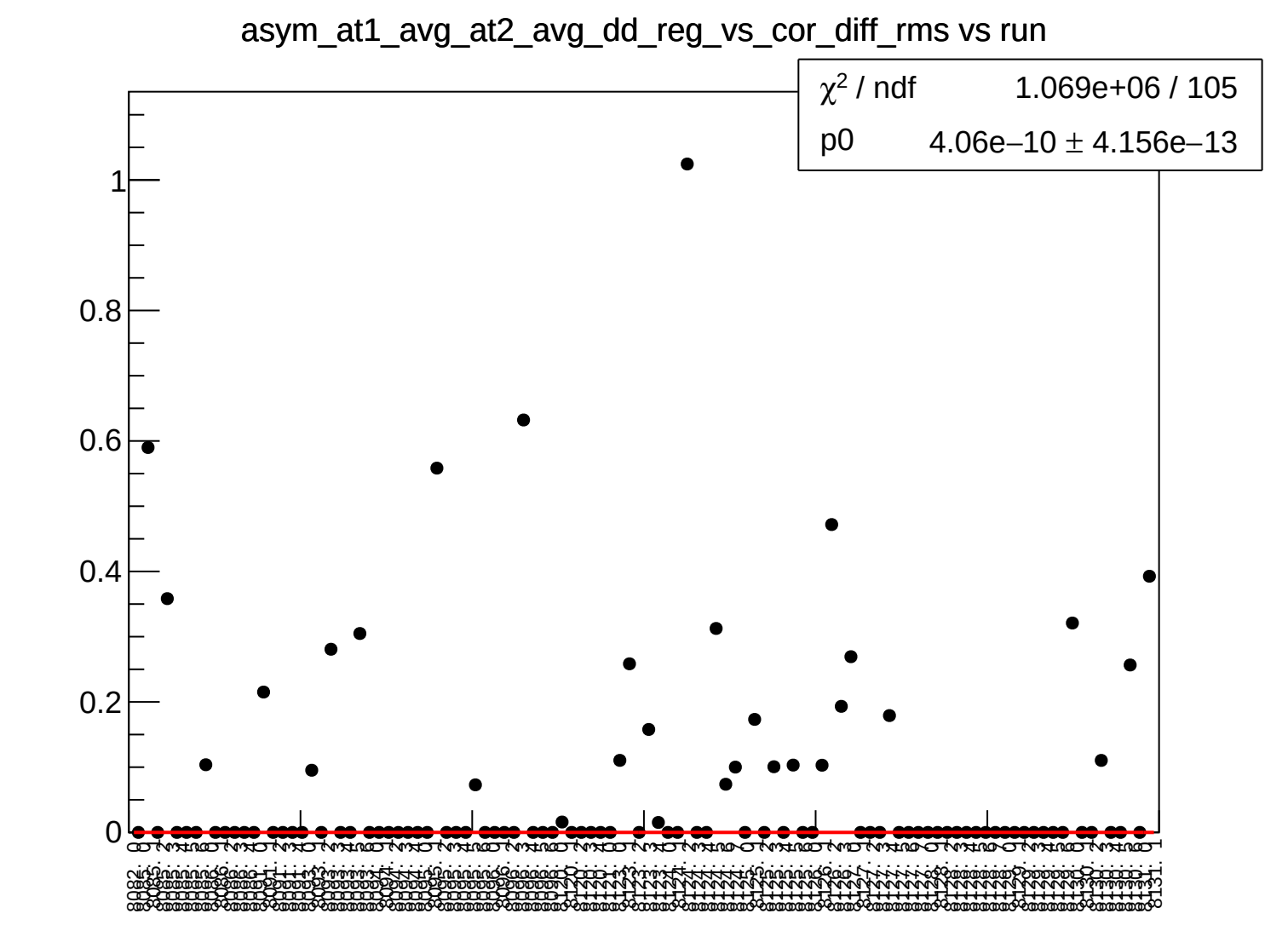

asym_at1_avg_at2_avg_dd_mean vs run
×10^3
χ² / ndf 94.93 / 105
p0 1.082e+04 ± 5563
pull
Entries 106
Mean −126.6
Std Dev 0

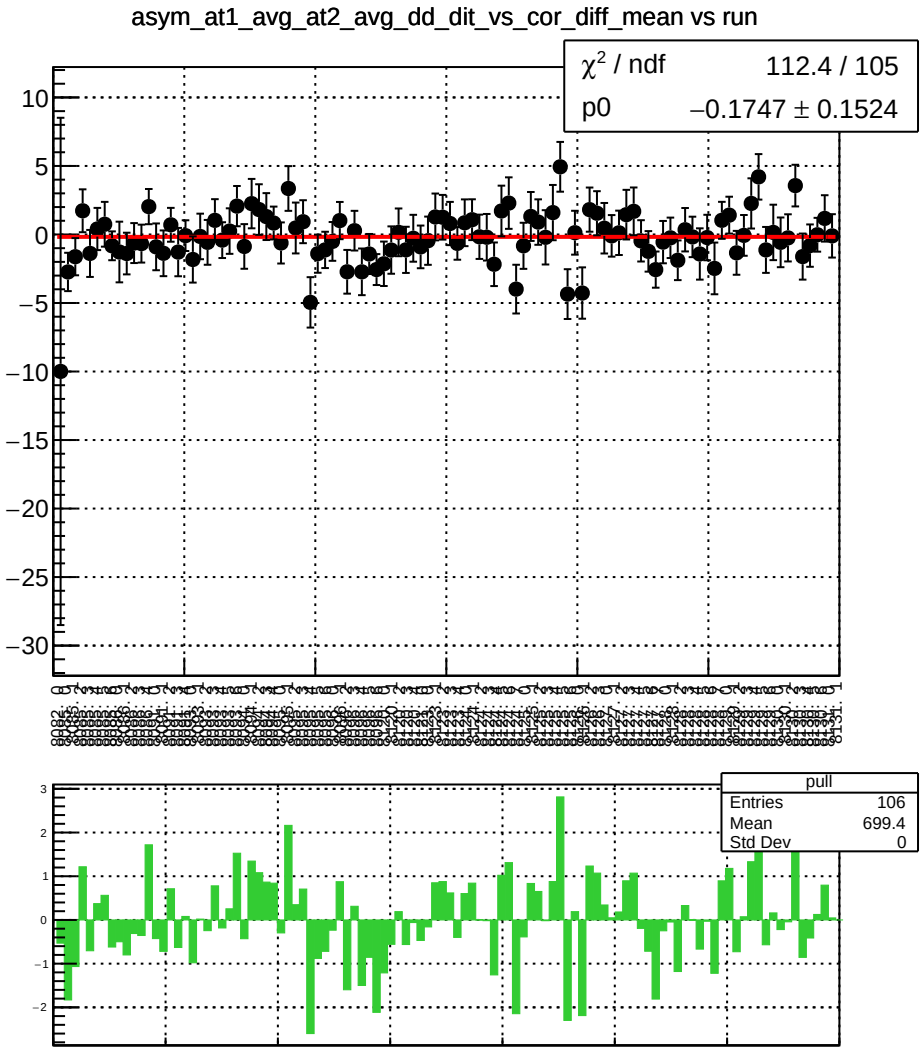

pull1D
Entries 106
Mean 0.01068
Std Dev 0.9463

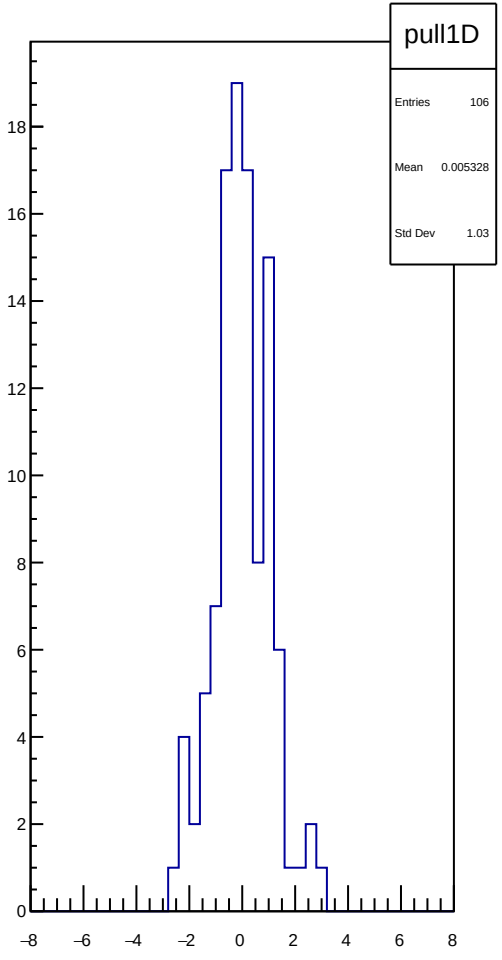

asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 9849 / 105
p0 5581 ± 3.934
7500
7000
6500
6000
5500
5000

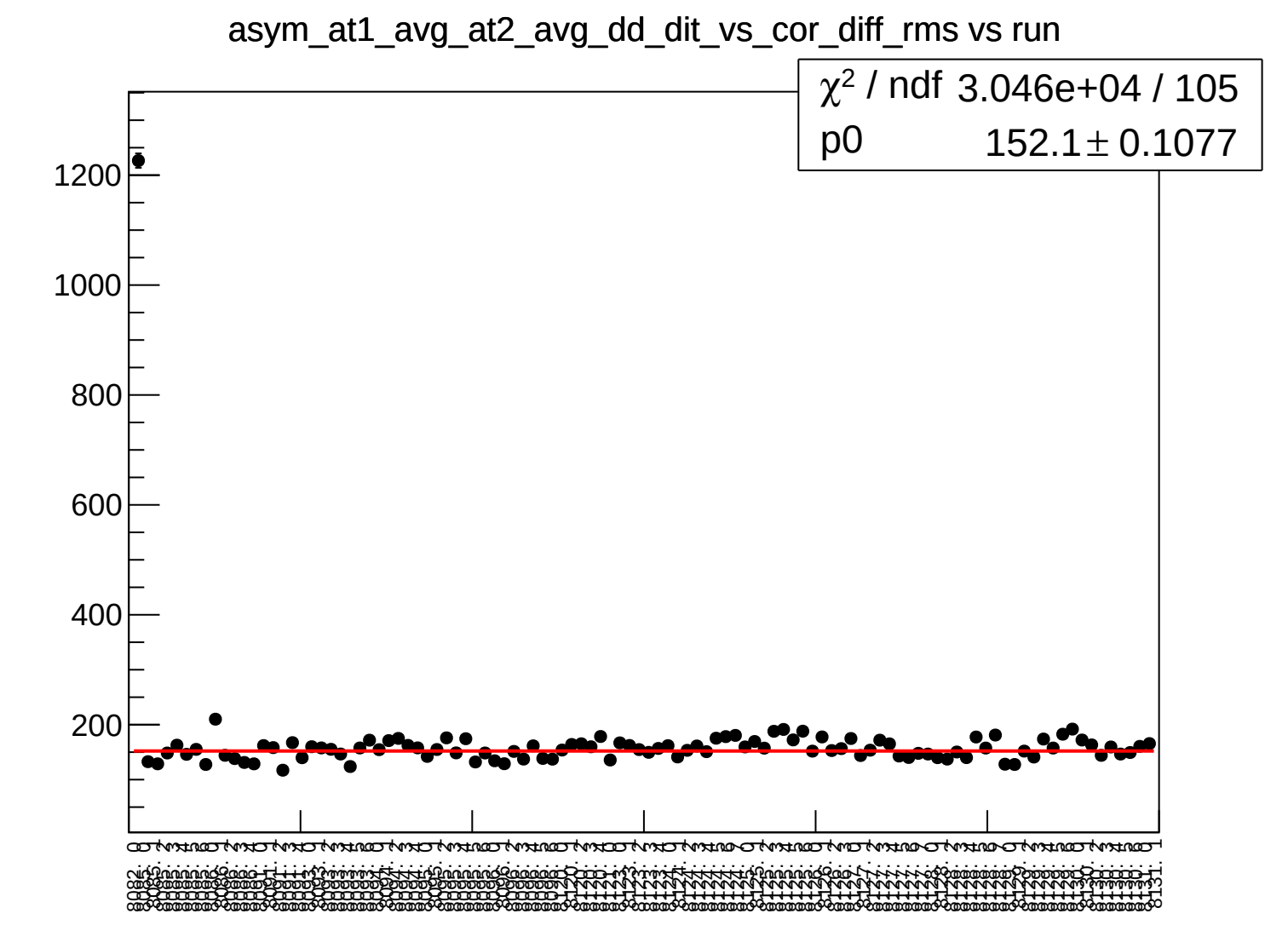

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 67.75 / 105
p0 1.388e−12 ± 5.877e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 106
Mean 59.3
Std Dev 18.96
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

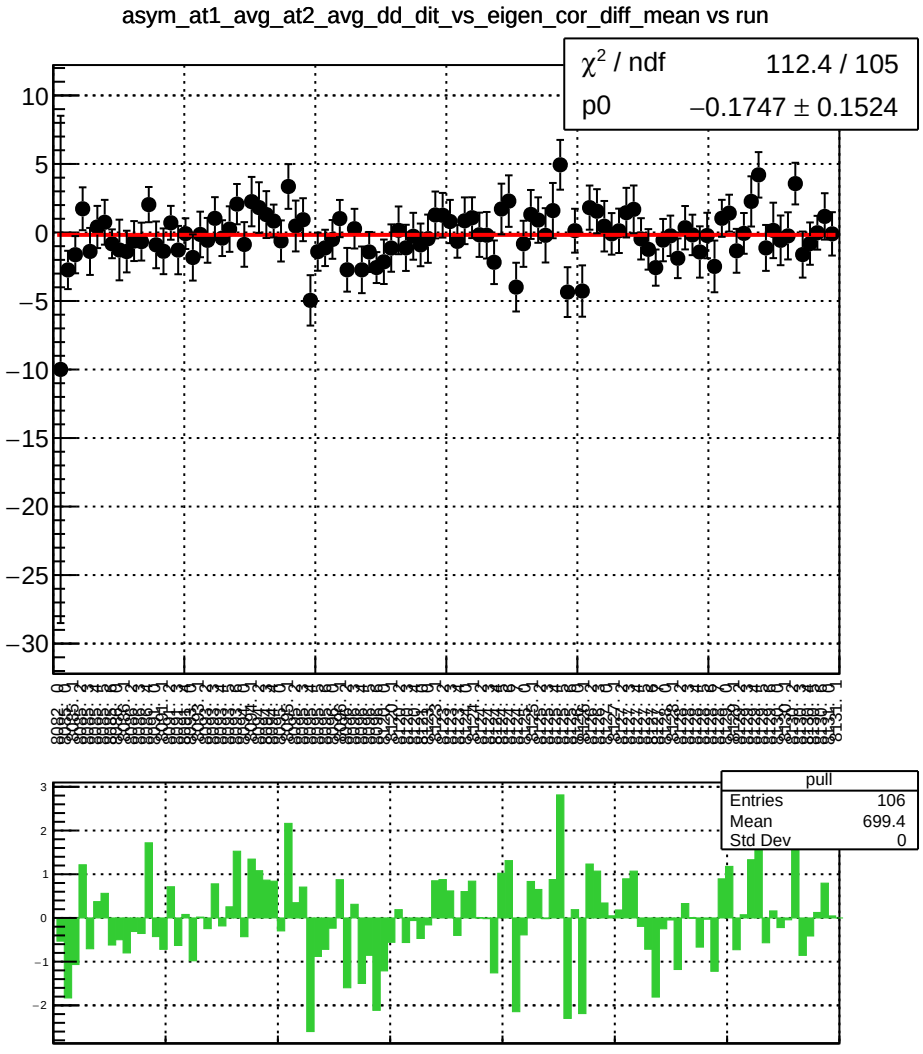

pull1D
Entries 106
Mean −0.05571
Std Dev 0.7975
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

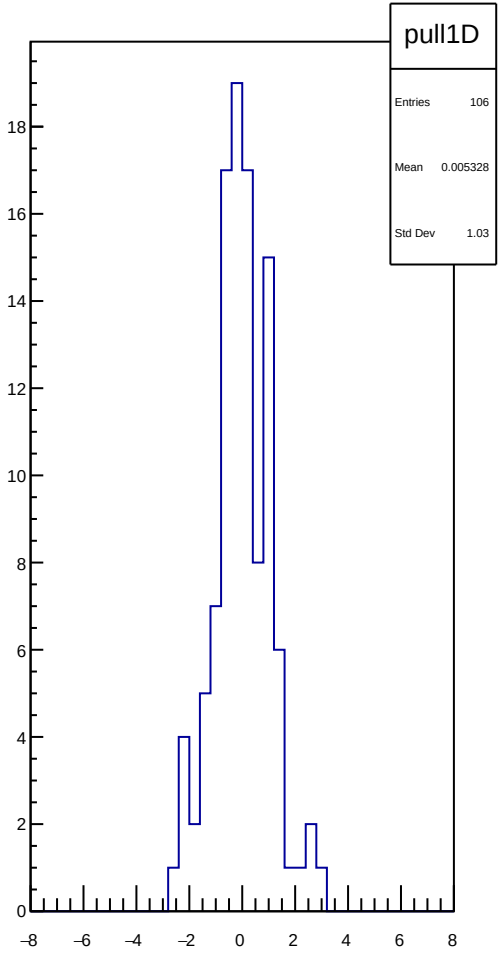

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.069e+06 / 105
p0 4.06e−10 ± 4.156e−13
1
0.8
0.6
0.4
0.2
0

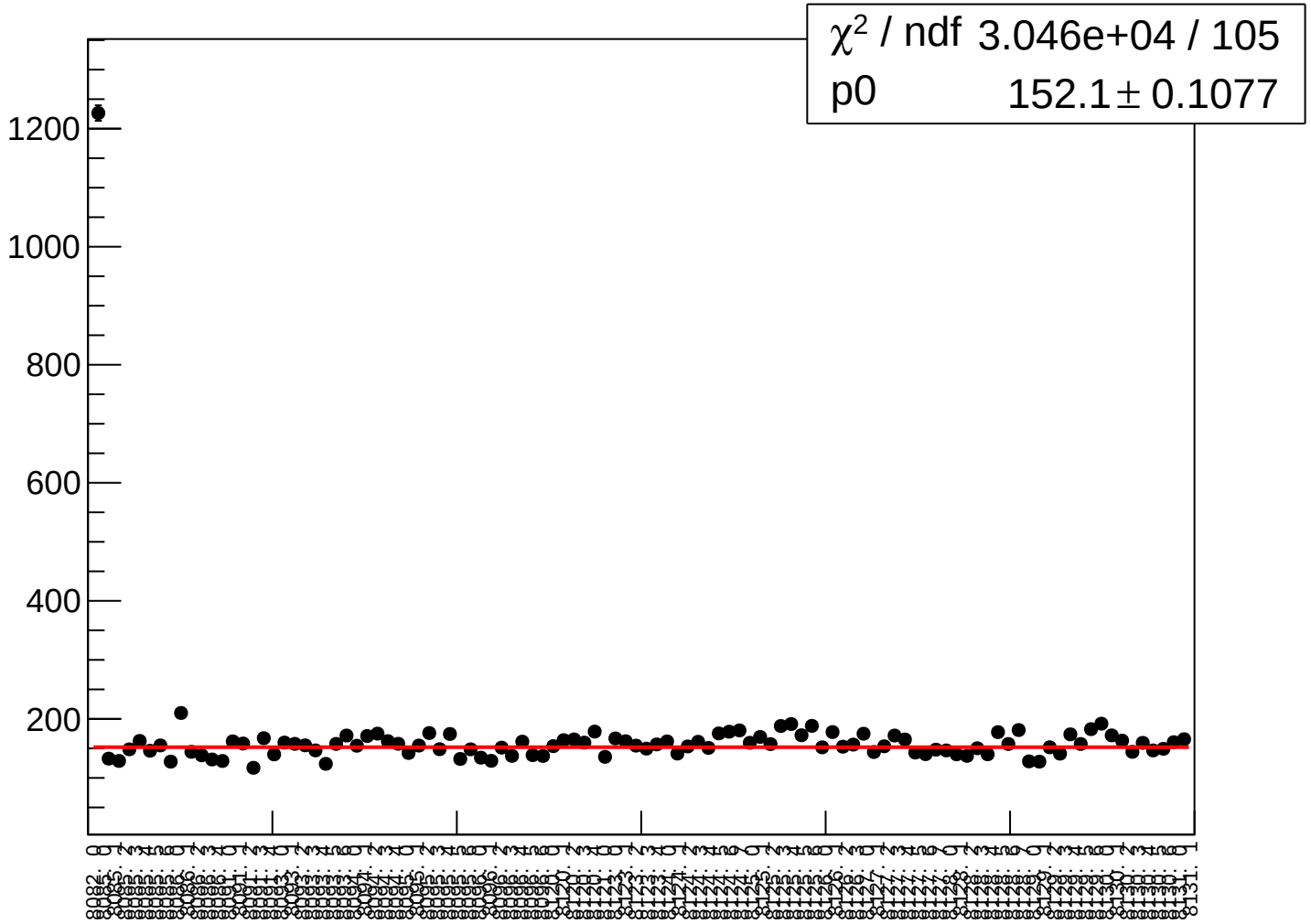

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 112.4 / 105
p0 −0.1747 ± 0.1524
pull
Entries 106
Mean 699.4
Std Dev 0

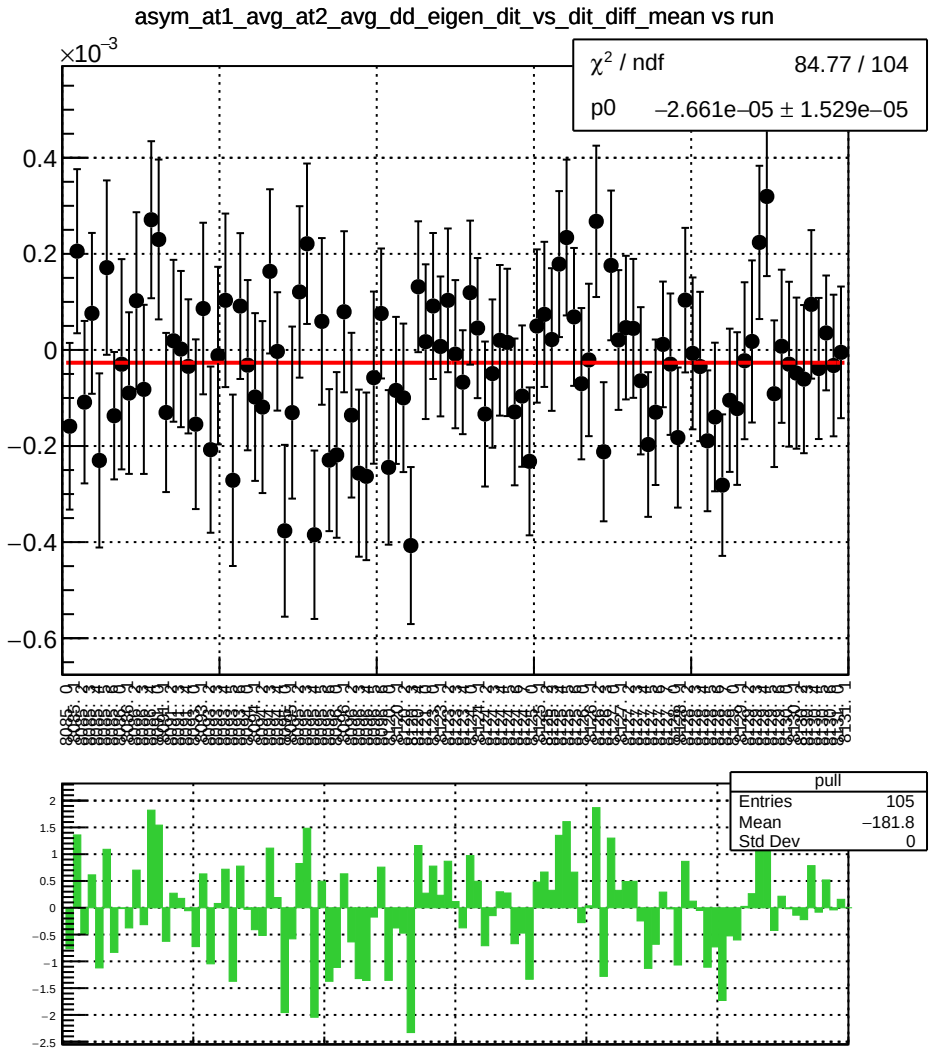

pull1D
Entries 106
Mean 0.005328
Std Dev 1.03

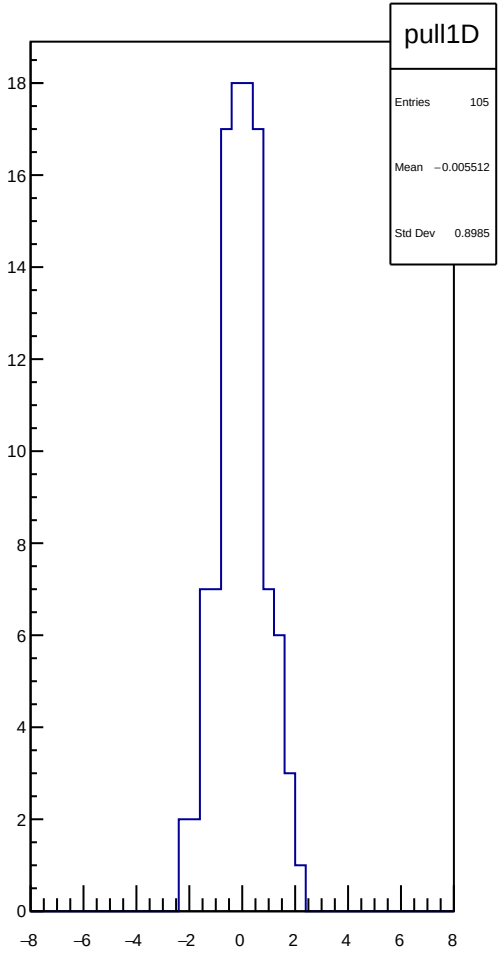

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.046e+04 / 105
p0 152.1 ± 0.1077
1200
1000
800
600
400
200

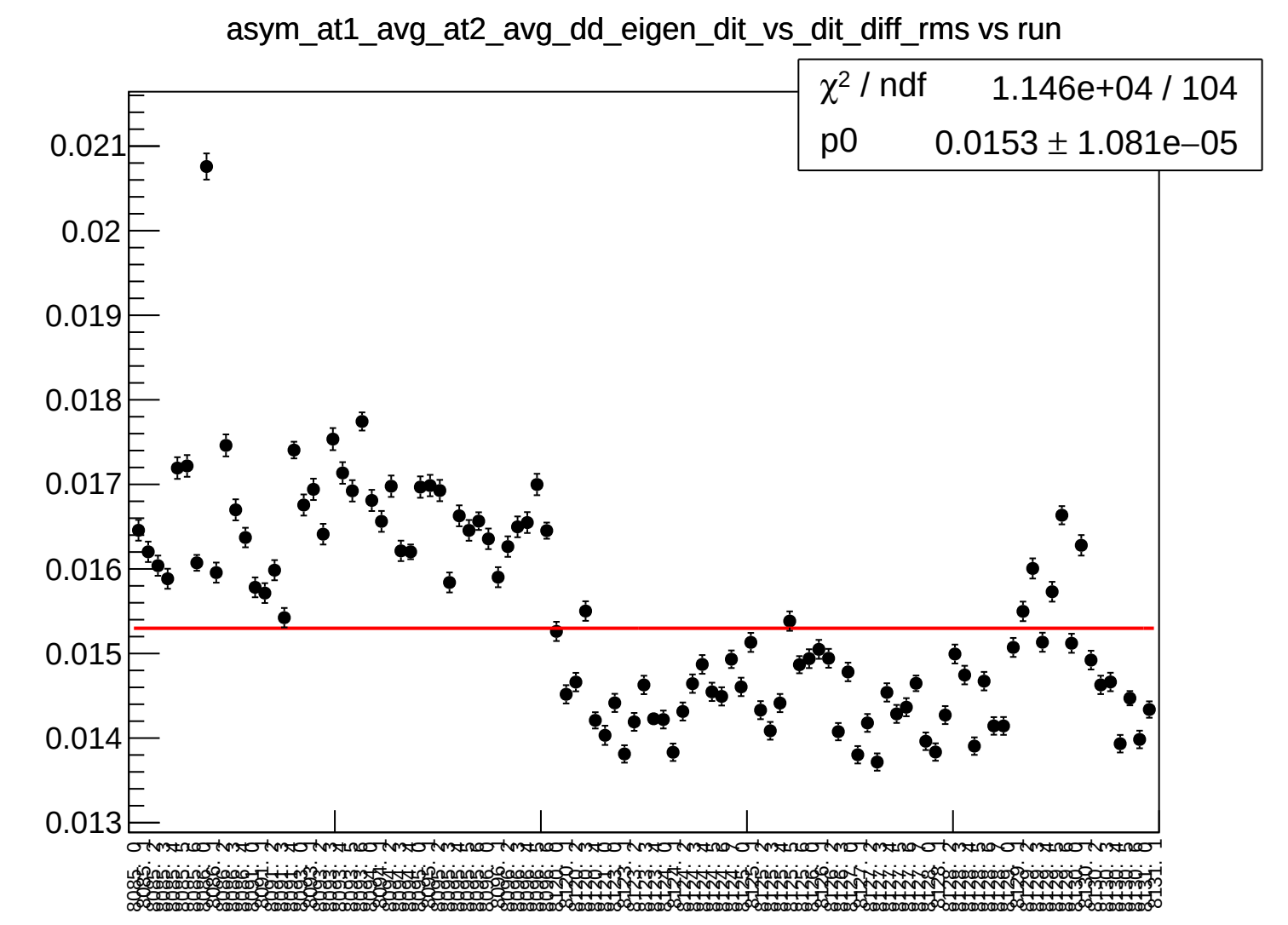

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 112.4 / 105
p0 −0.1747 ± 0.1524
pull
Entries 106
Mean 699.4
Std Dev 0

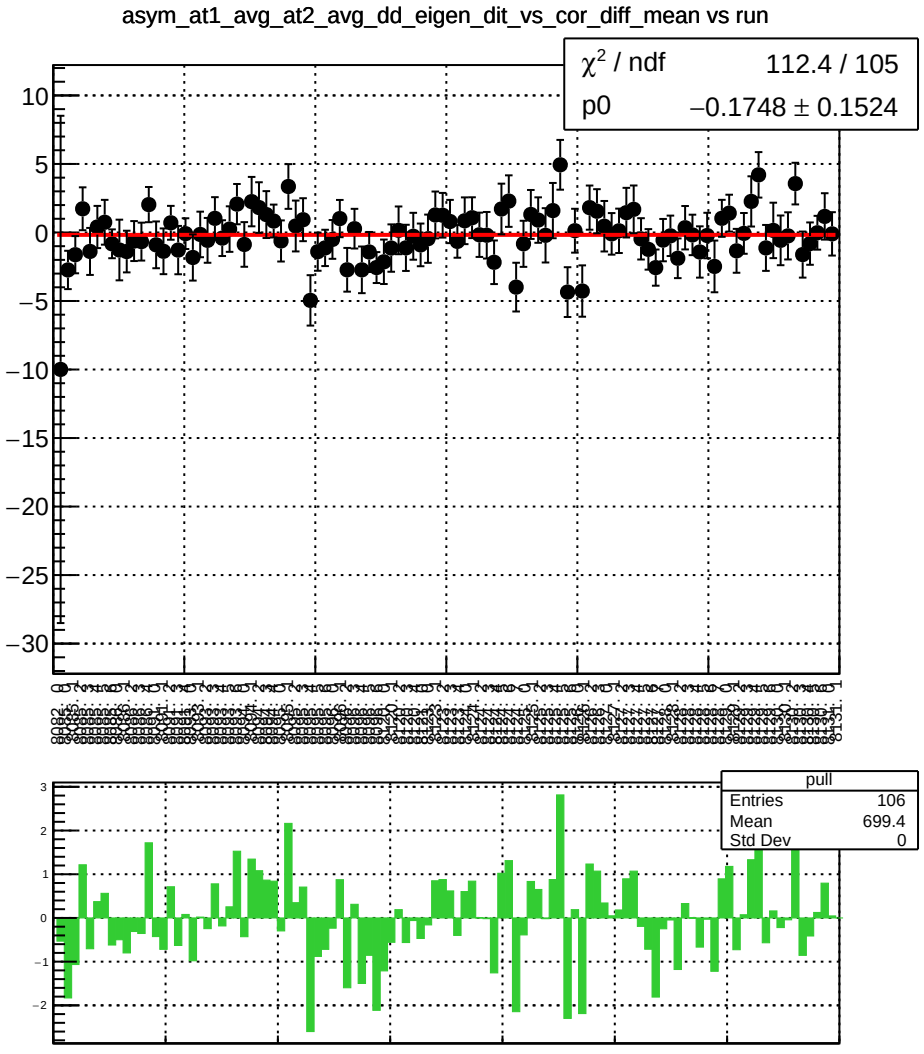

pull1D
Entries 106
Mean 0.005328
Std Dev 1.03

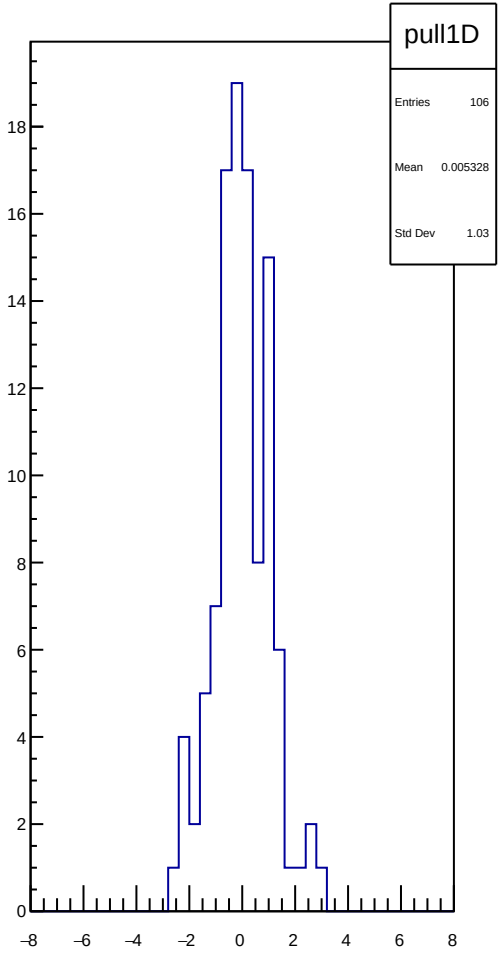

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.046e+04 / 105
p0 152.1 ± 0.1077
1200
1000
800
600
400
200

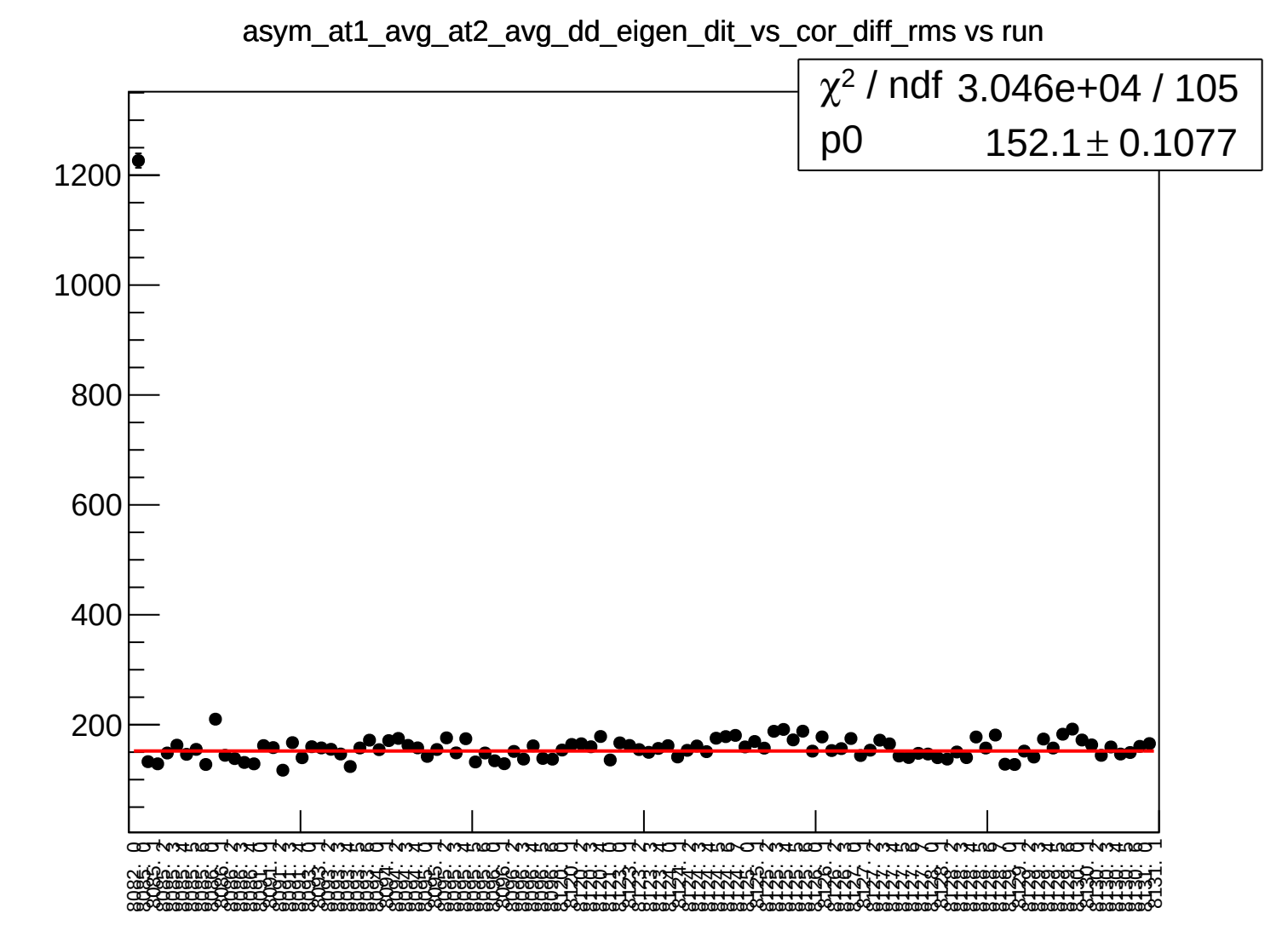

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84.77 / 104
p0 −2.661e−05 ± 1.529e−05
pull
Entries 105
Mean −181.8
Std Dev 0

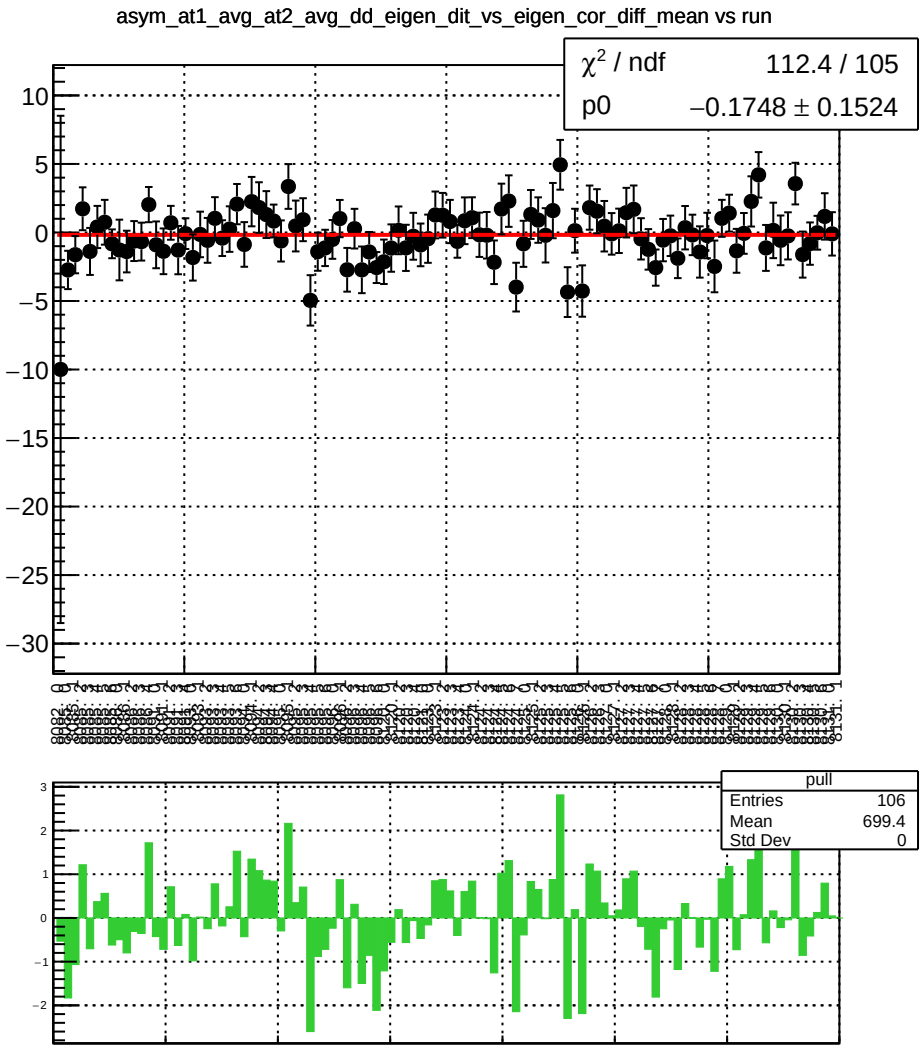

pull1D
Entries 105
Mean −0.005512
Std Dev 0.8985

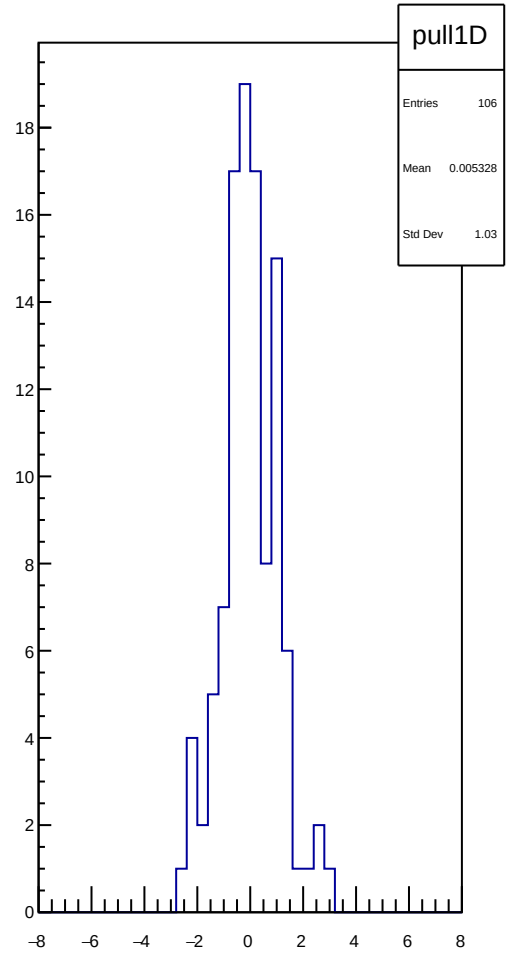

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.146e+04 / 104
p0 0.0153 ± 1.081e−05
0.021
0.02
0.019
0.018
0.017
0.016
0.015
0.014
0.013

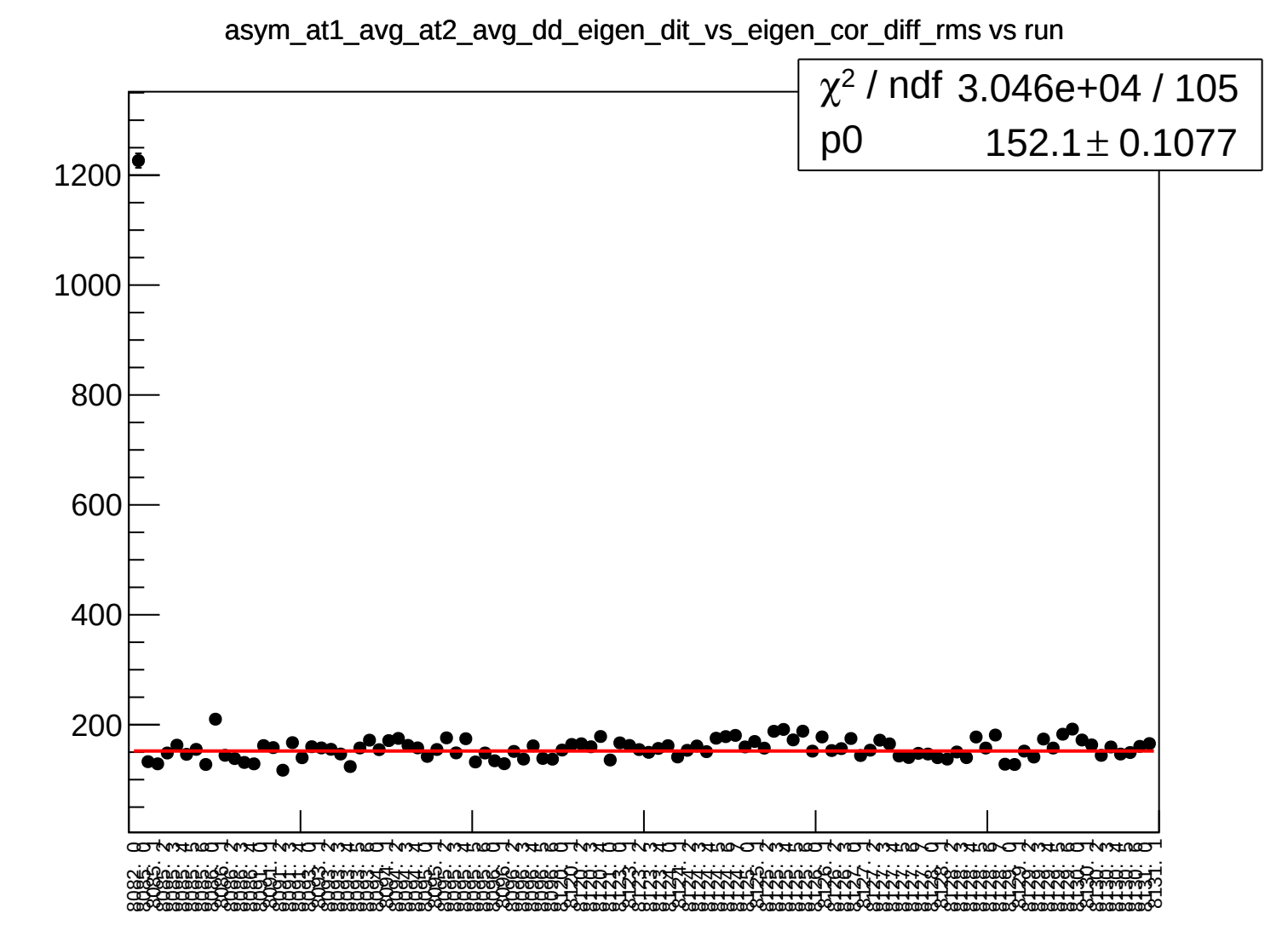

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 112.4 / 105
p0 −0.1748 ± 0.1524
pull
Entries 106
Mean 699.4
Std Dev 0

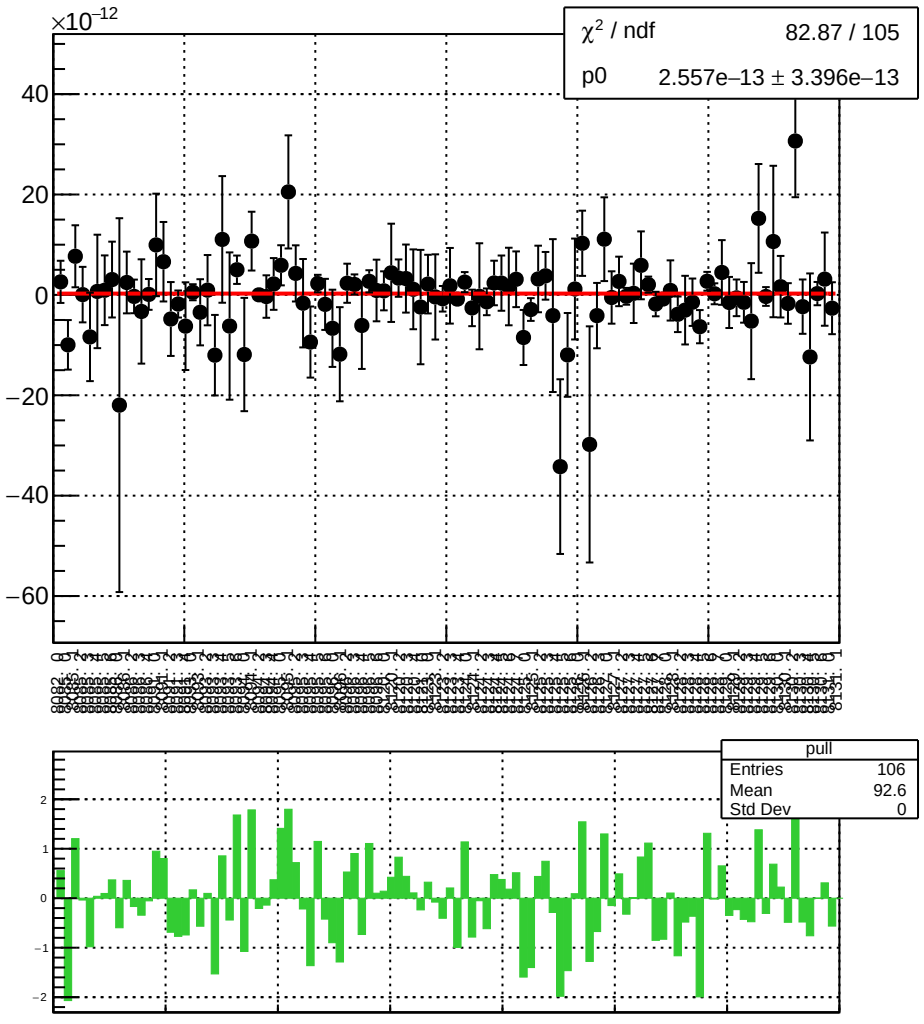

pull1D
Entries 106
Mean 0.005328
Std Dev 1.03

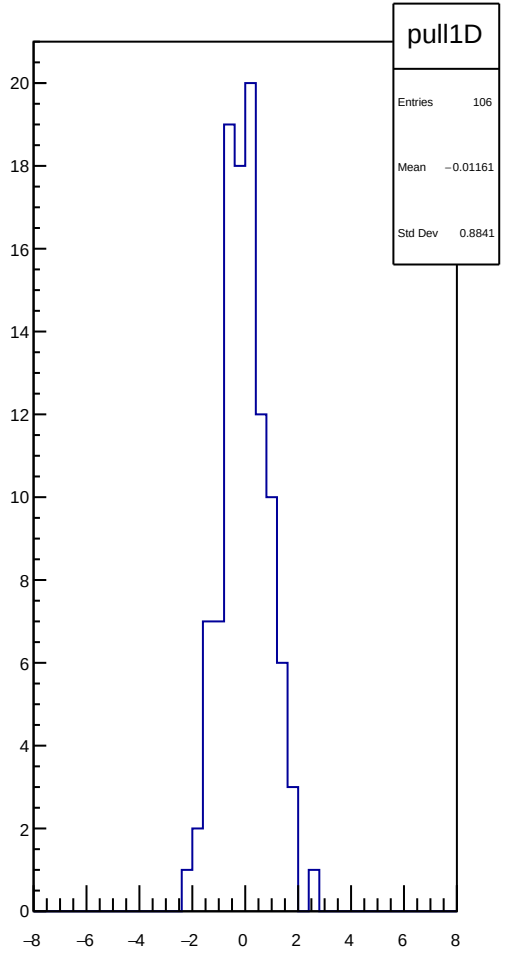

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.046e+04 / 105
p0 152.1 ± 0.1077
1200
1000
800
600
400
200

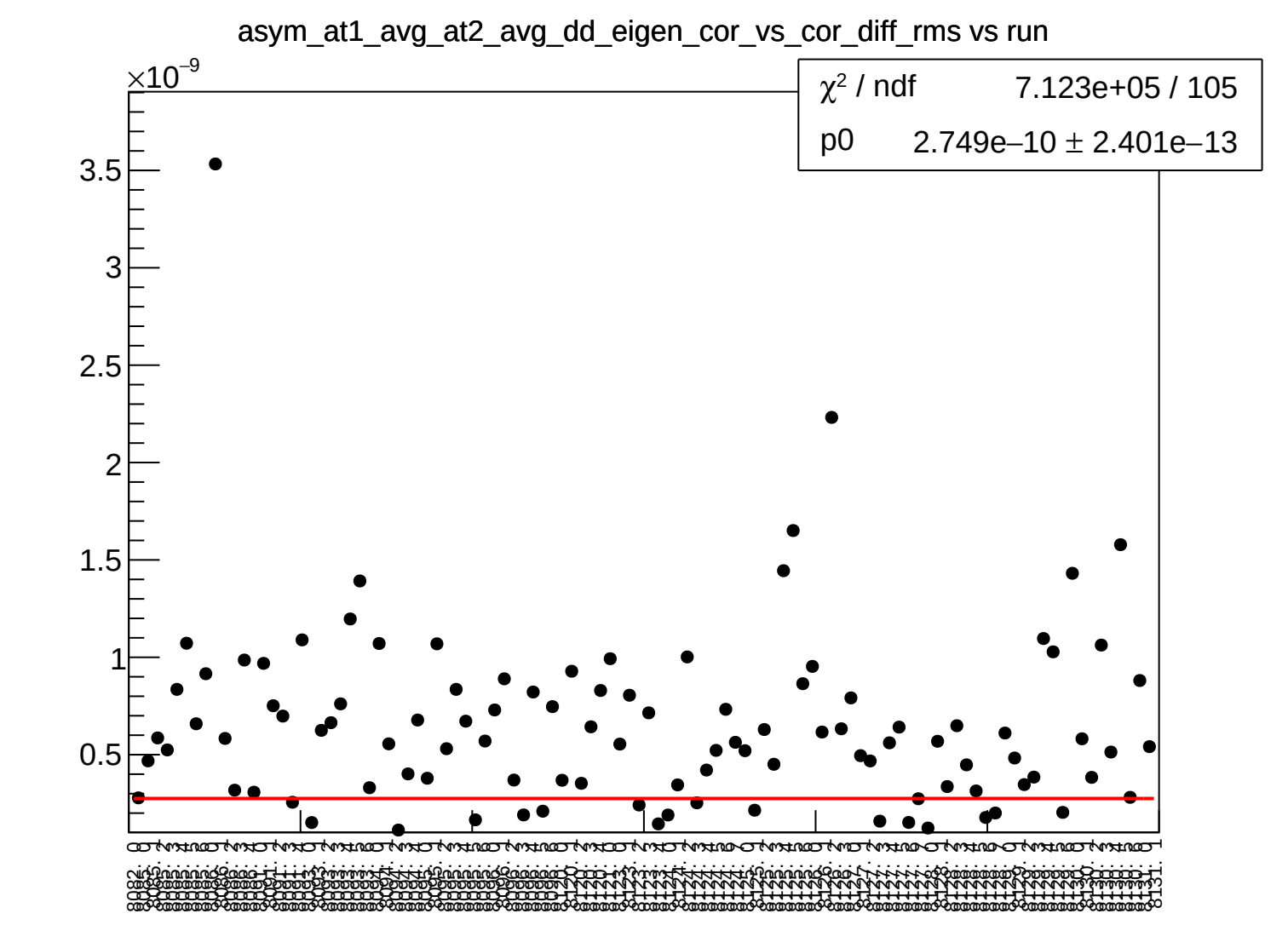

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 112.4 / 105
p0 −0.1748 ± 0.1524
pull
Entries 106
Mean 699.4
Std Dev 0

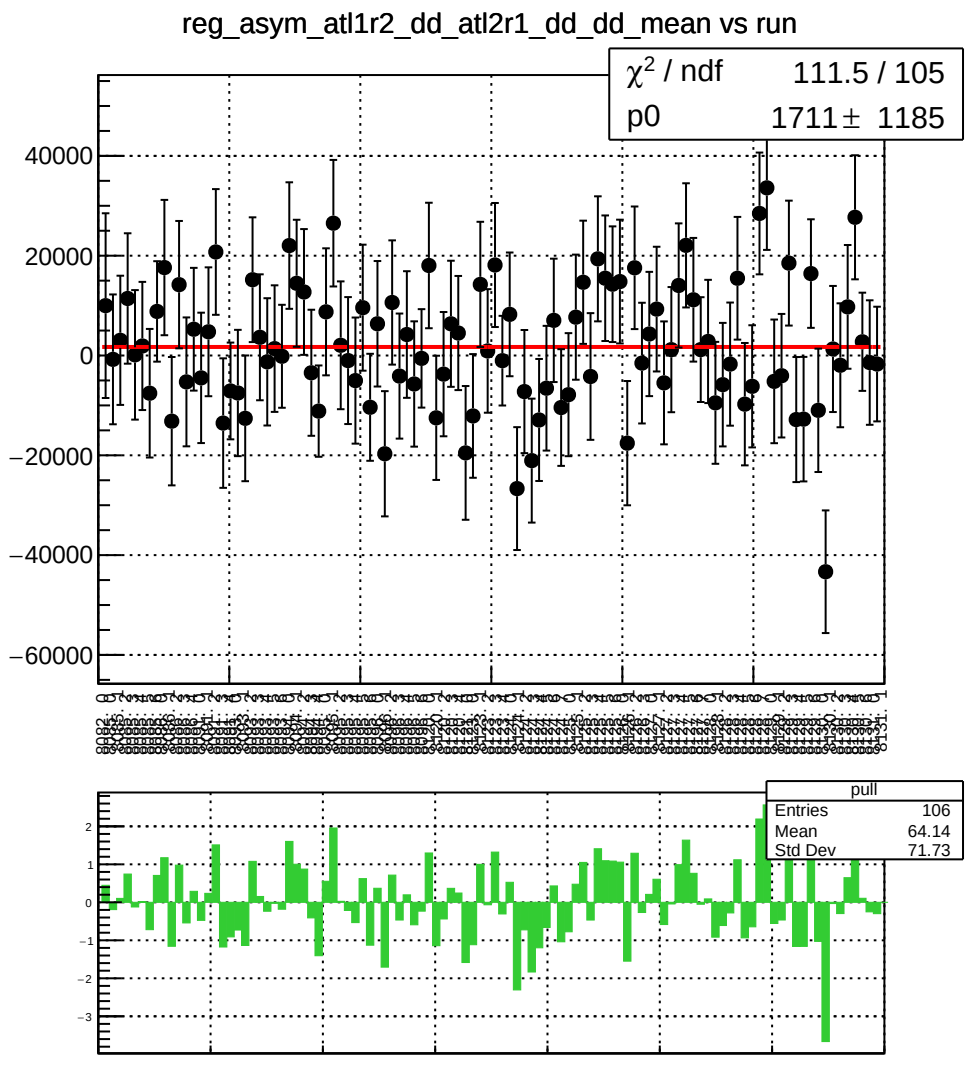

pull1D
Entries 106
Mean 0.005328
Std Dev 1.03

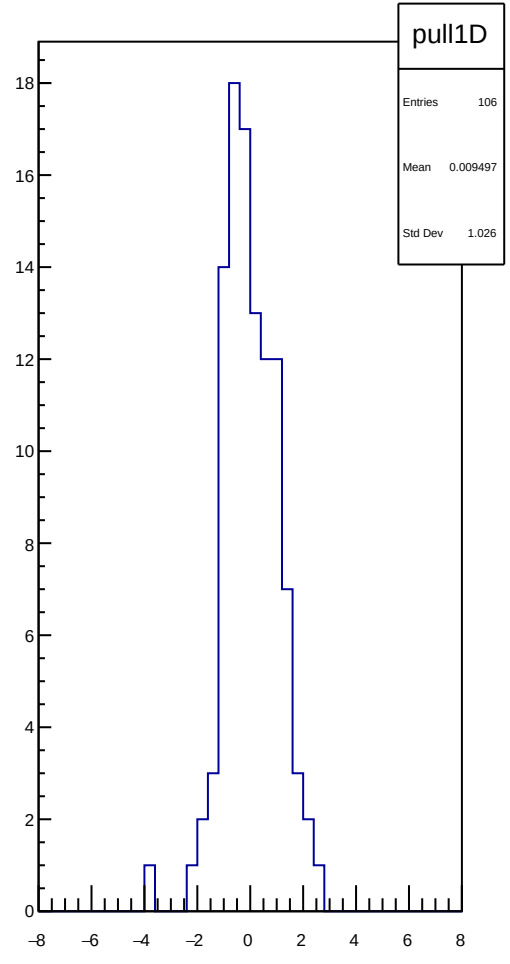

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.046e+04 / 105
p0 152.1 ± 0.1077
1200
1000
800
600
400
200

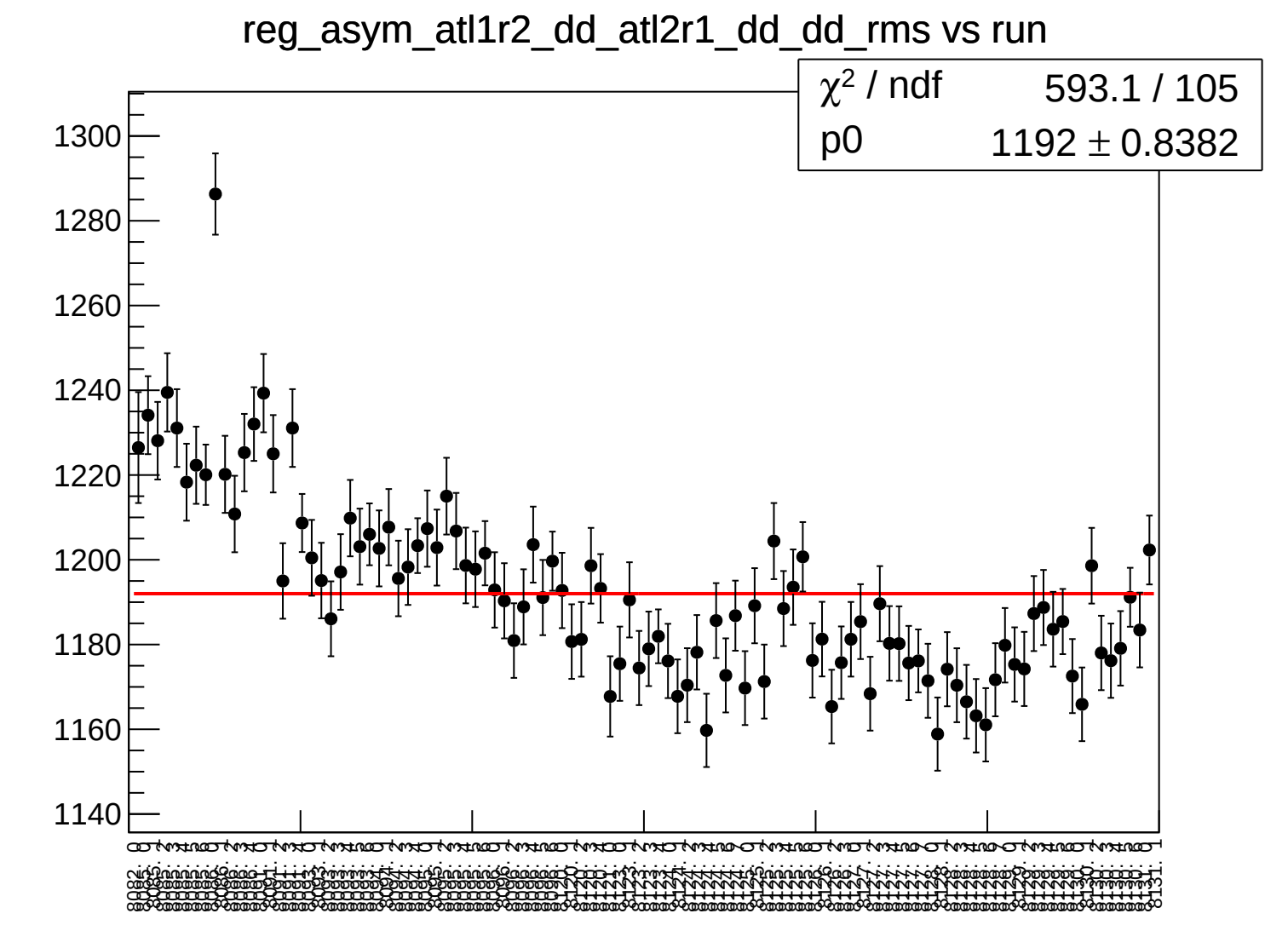

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.87 / 105
p0 2.557e−13 ± 3.396e−13
40
20
0
−20
−40
−60
pull
Entries 106
Mean 92.6
Std Dev 0
2
1
0
−1
−2

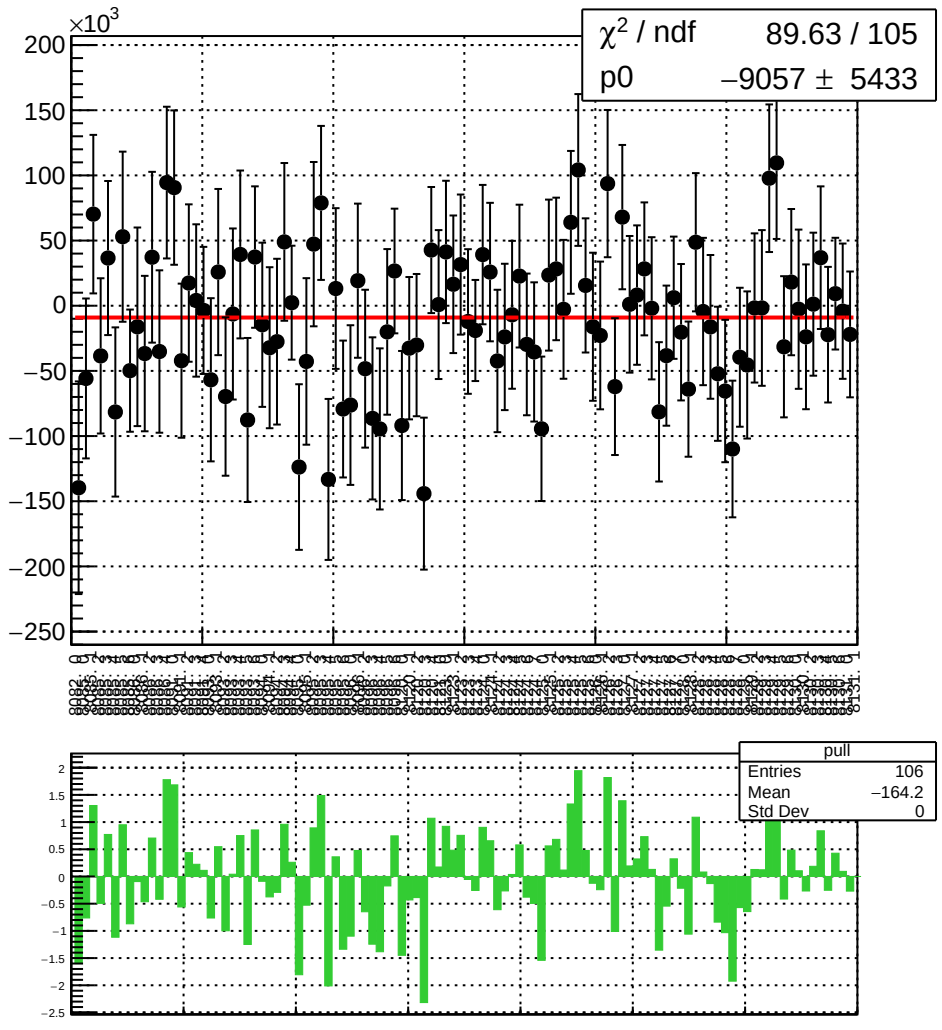

pull1D
Entries 106
Mean −0.01161
Std Dev 0.8841
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

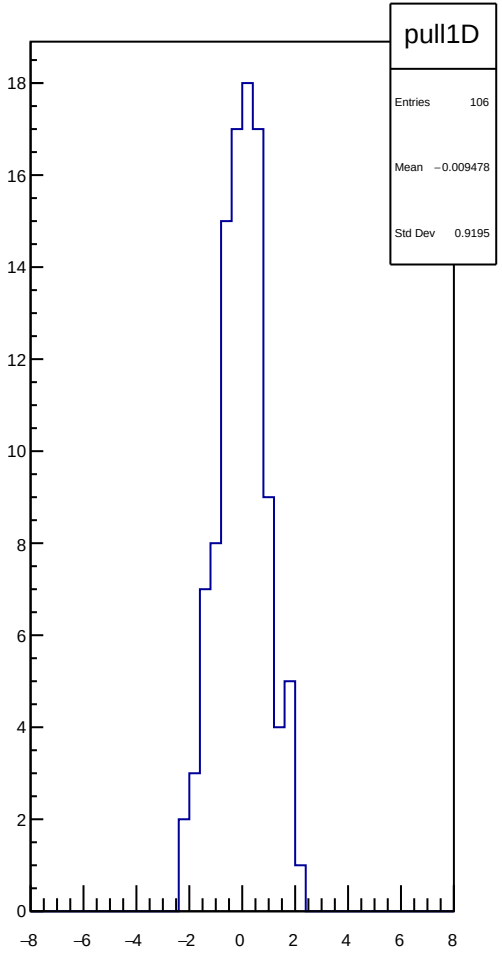

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.123e+05 / 105
p0 2.749e−10 ± 2.401e−13
3.5
3
2.5
2
1.5
1
0.5

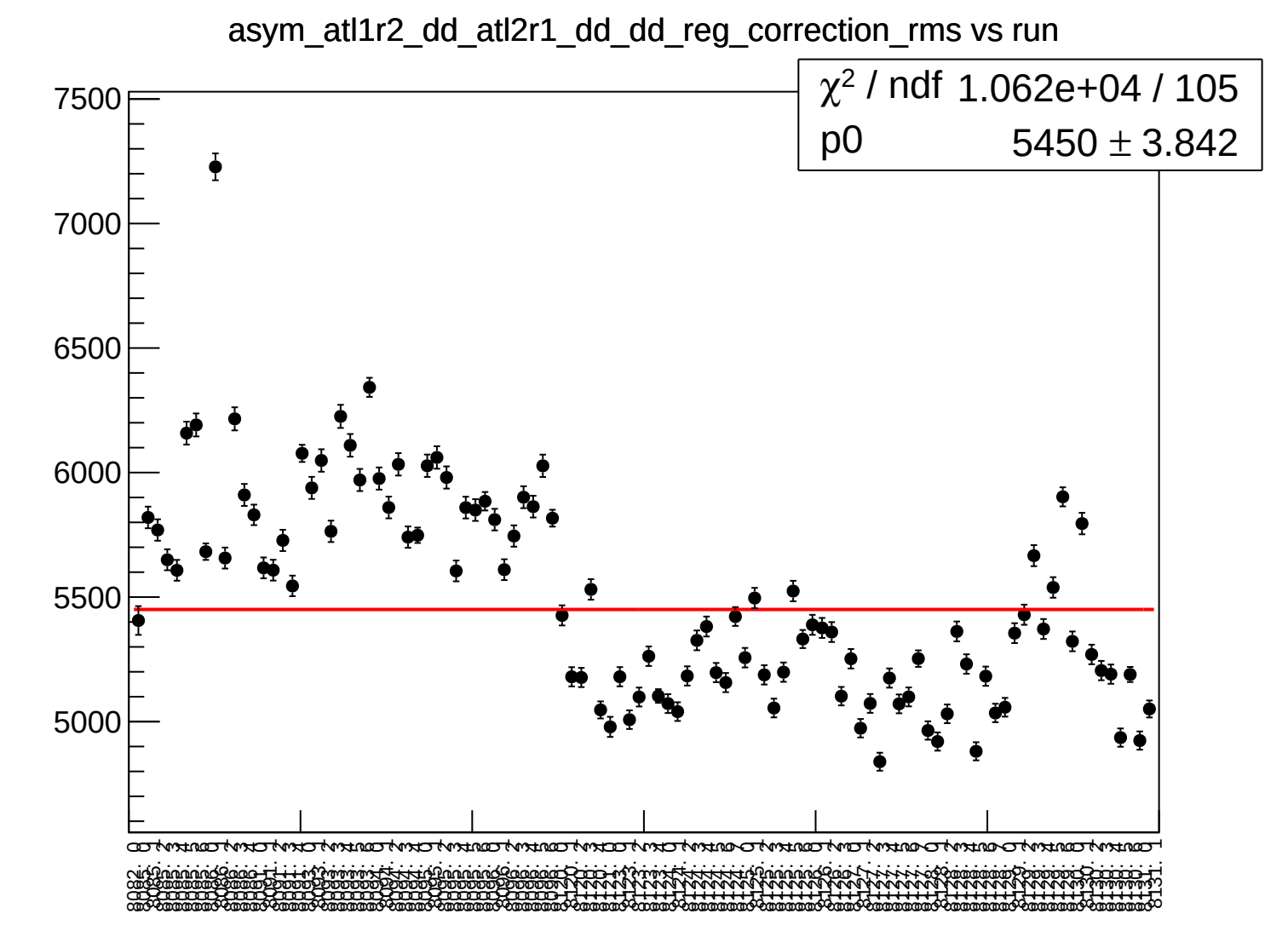

reg_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 111.5 / 105
p0 1711 ± 1185
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean 64.14
Std Dev 71.73
2
1
0
−1
−2
−3

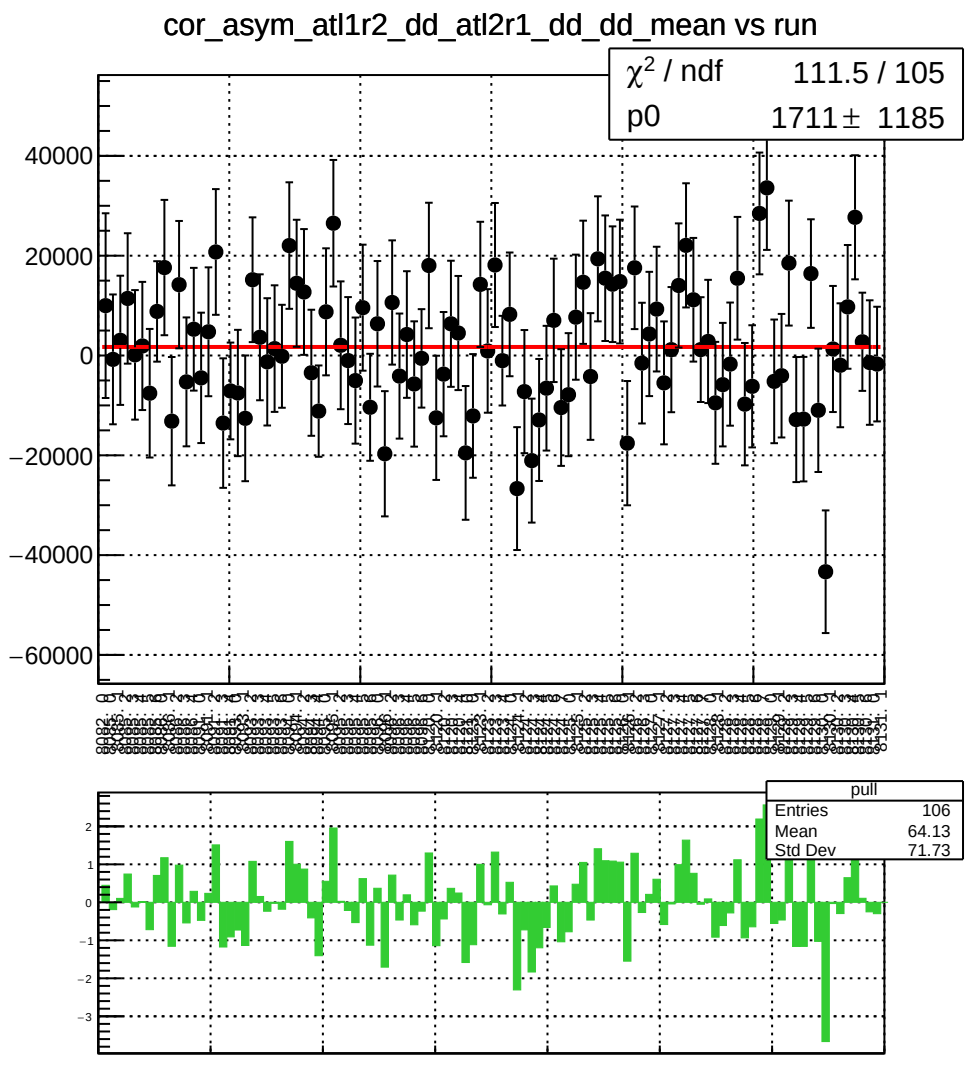

pull1D
Entries 106
Mean 0.009497
Std Dev 1.026
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

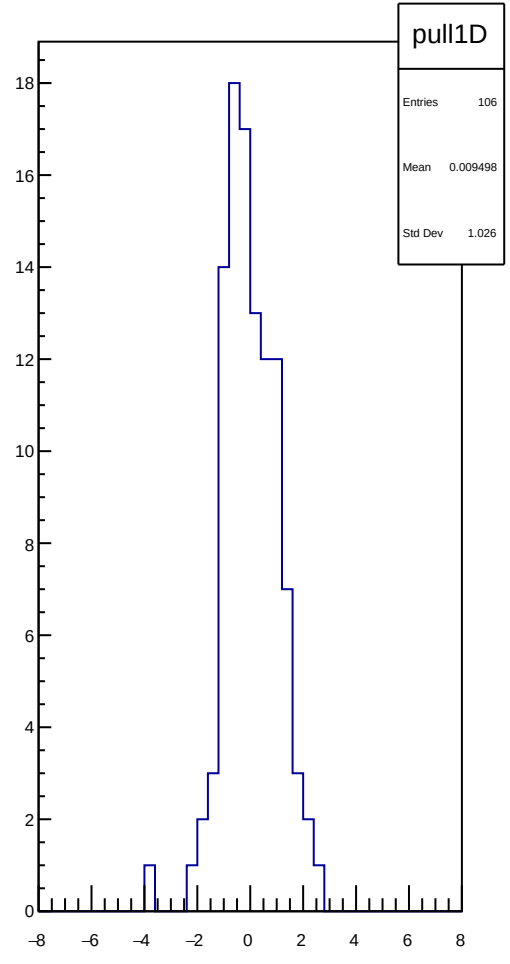

reg_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 593.1 / 105
p0 1192 ± 0.8382
1300
1280
1260
1240
1220
1200
1180
1160
1140

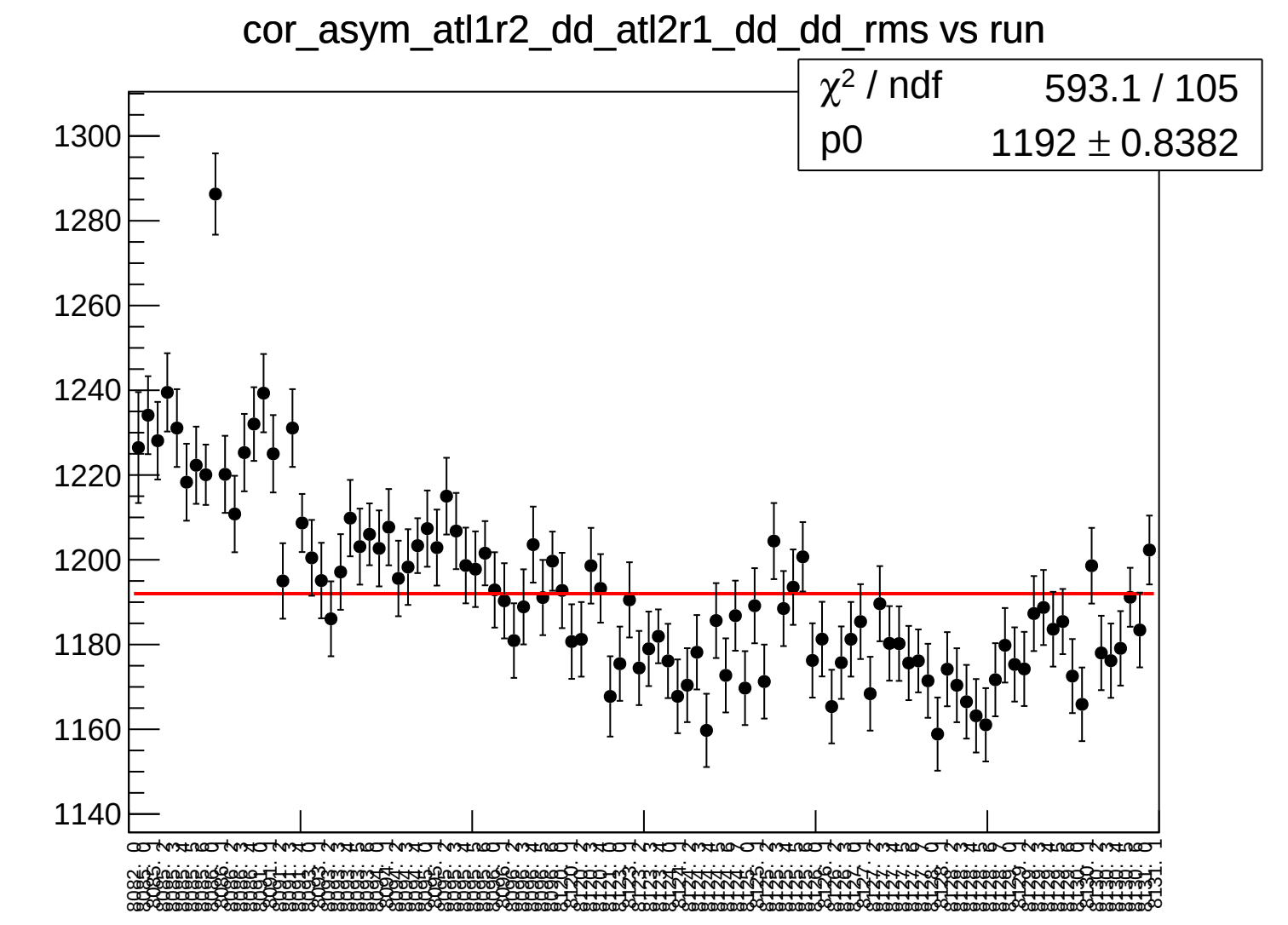

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_mean vs run
×10^3
χ² / ndf 89.63 / 105
p0 −9057 ± 5433
pull
Entries 106
Mean −164.2
Std Dev 0

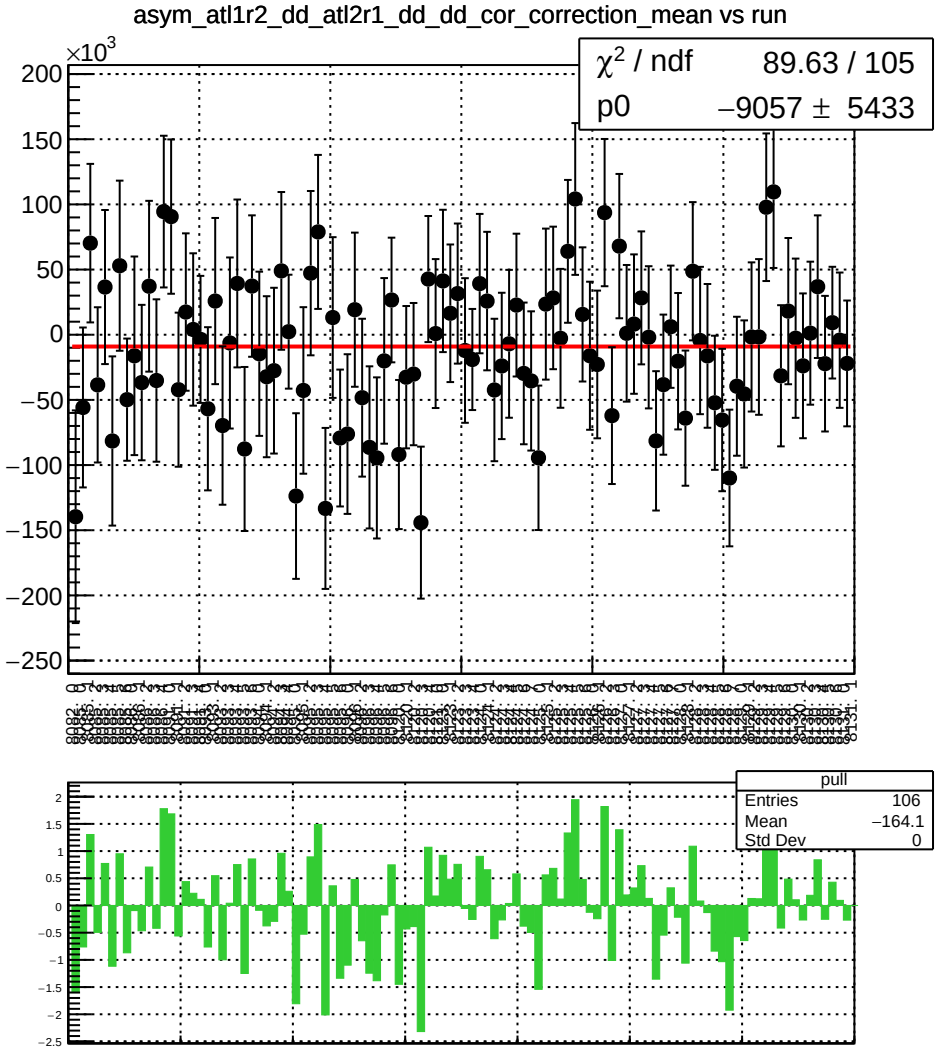

pull1D
Entries 106
Mean −0.009478
Std Dev 0.9195

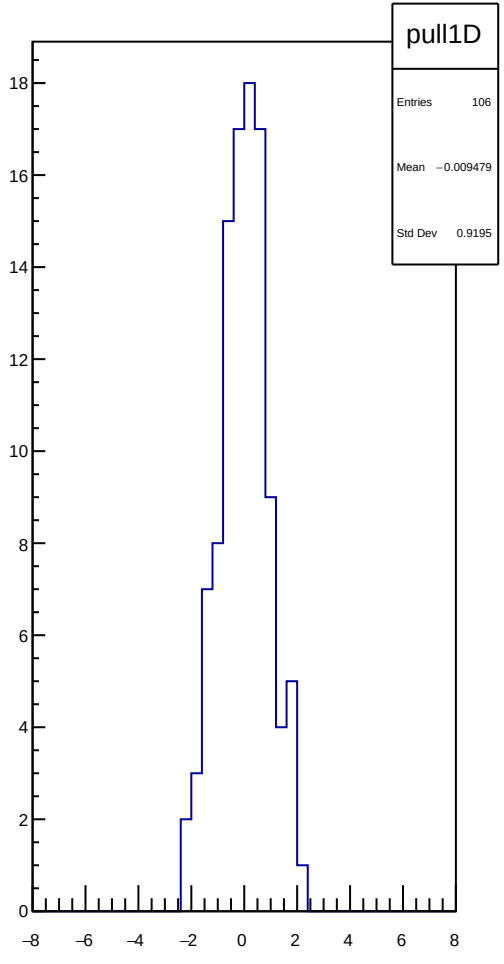

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_rms vs run
χ² / ndf 1.062e+04 / 105
p0 5450 ± 3.842
7500
7000
6500
6000
5500
5000

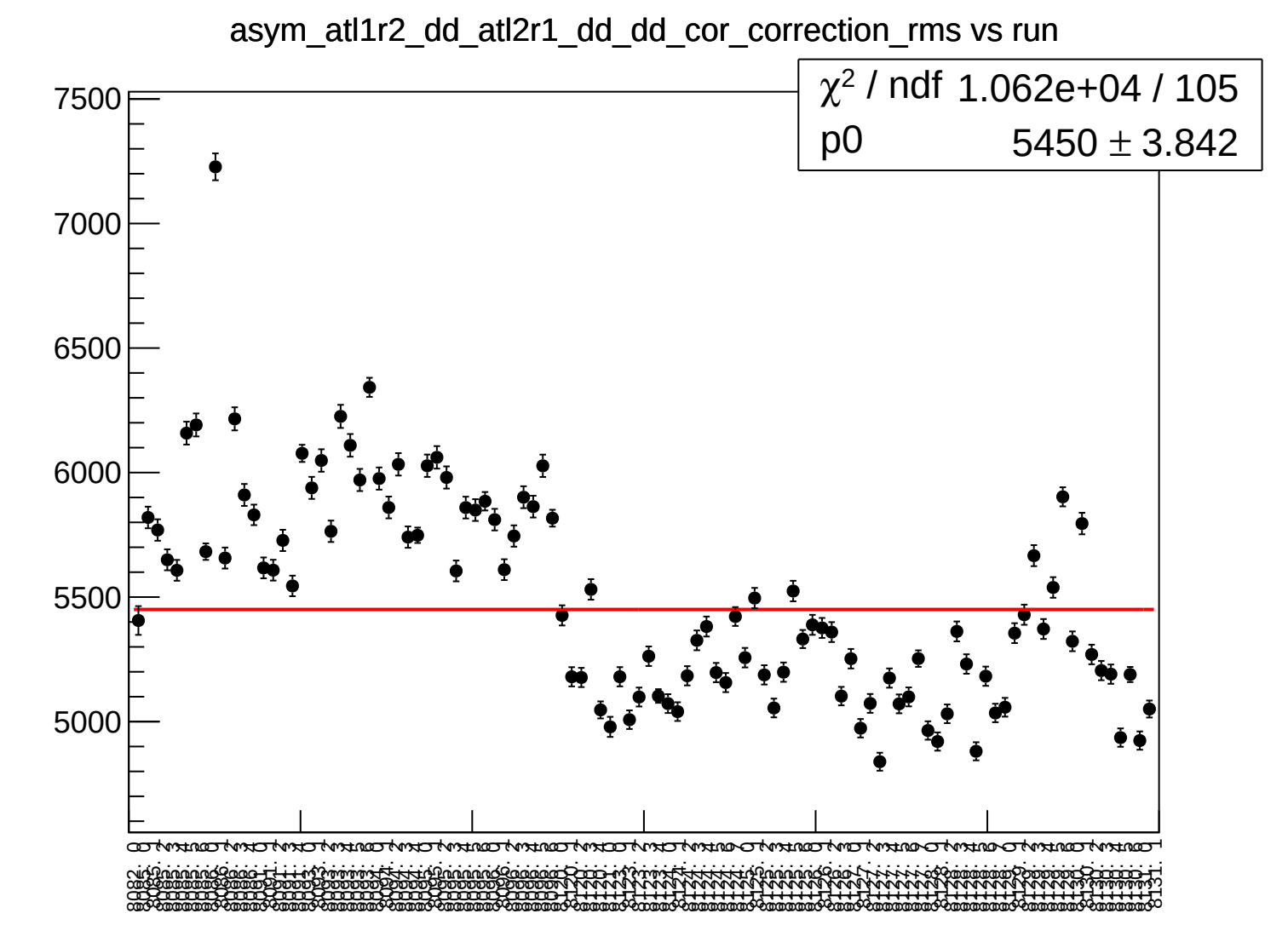

cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 111.5 / 105
p0 1711 ± 1185
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean 64.13
Std Dev 71.73
2
1
0
−1
−2
−3

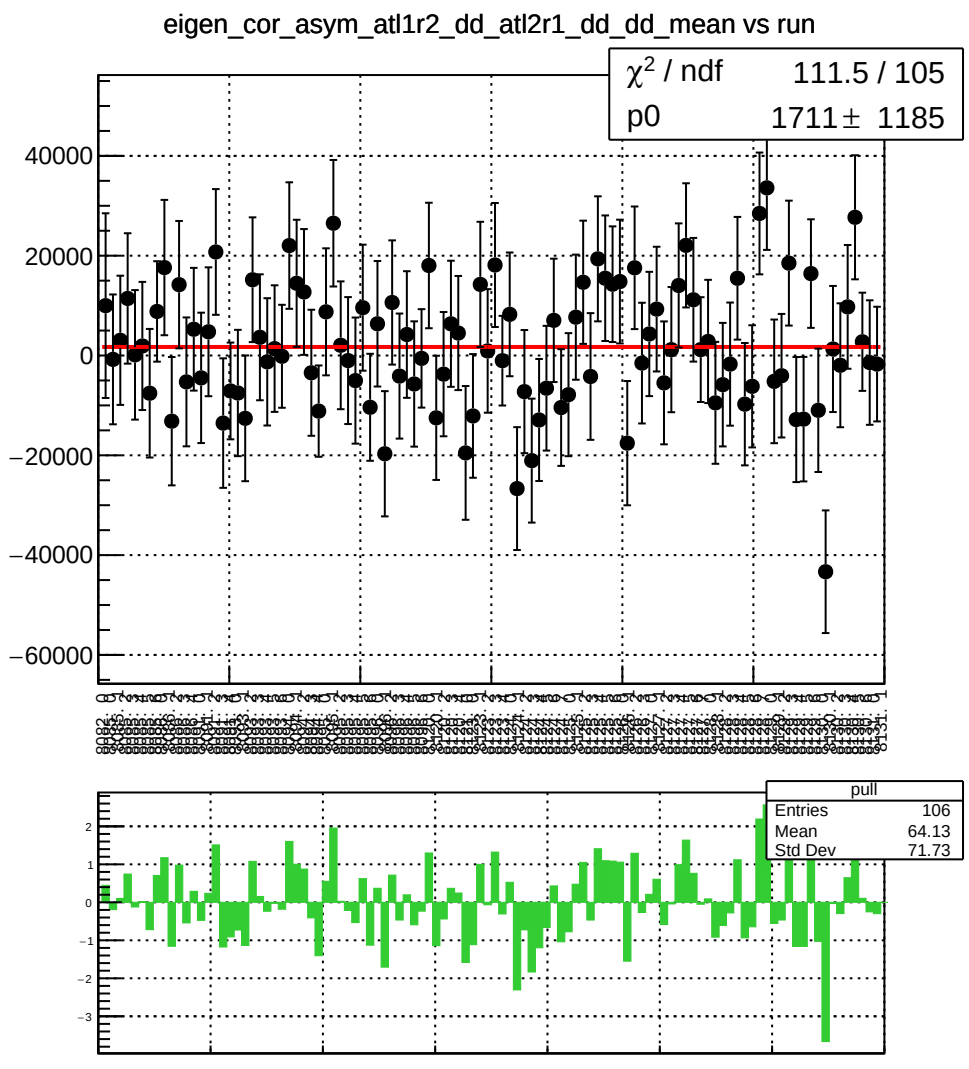

pull1D
Entries 106
Mean 0.009498
Std Dev 1.026
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

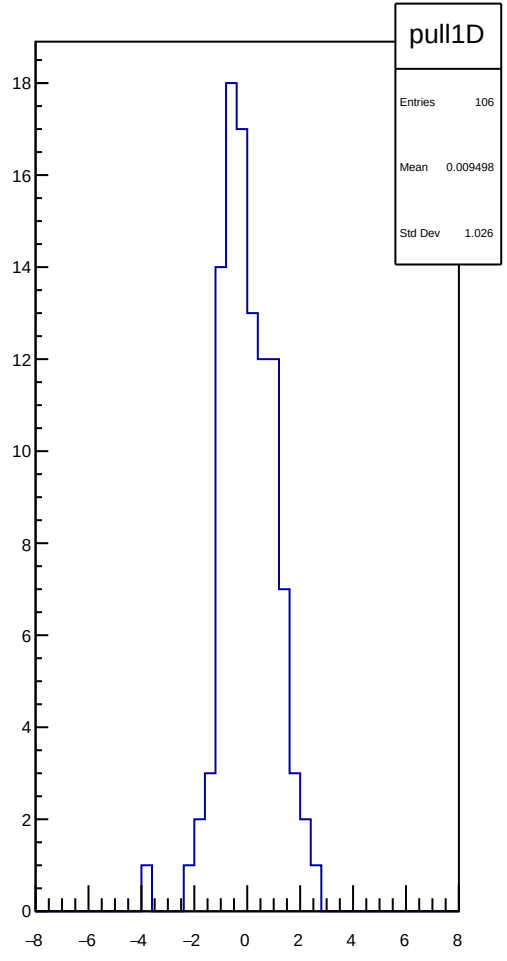

cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 593.1 / 105
p0 1192 ± 0.8382
1300
1280
1260
1240
1220
1200
1180
1160
1140

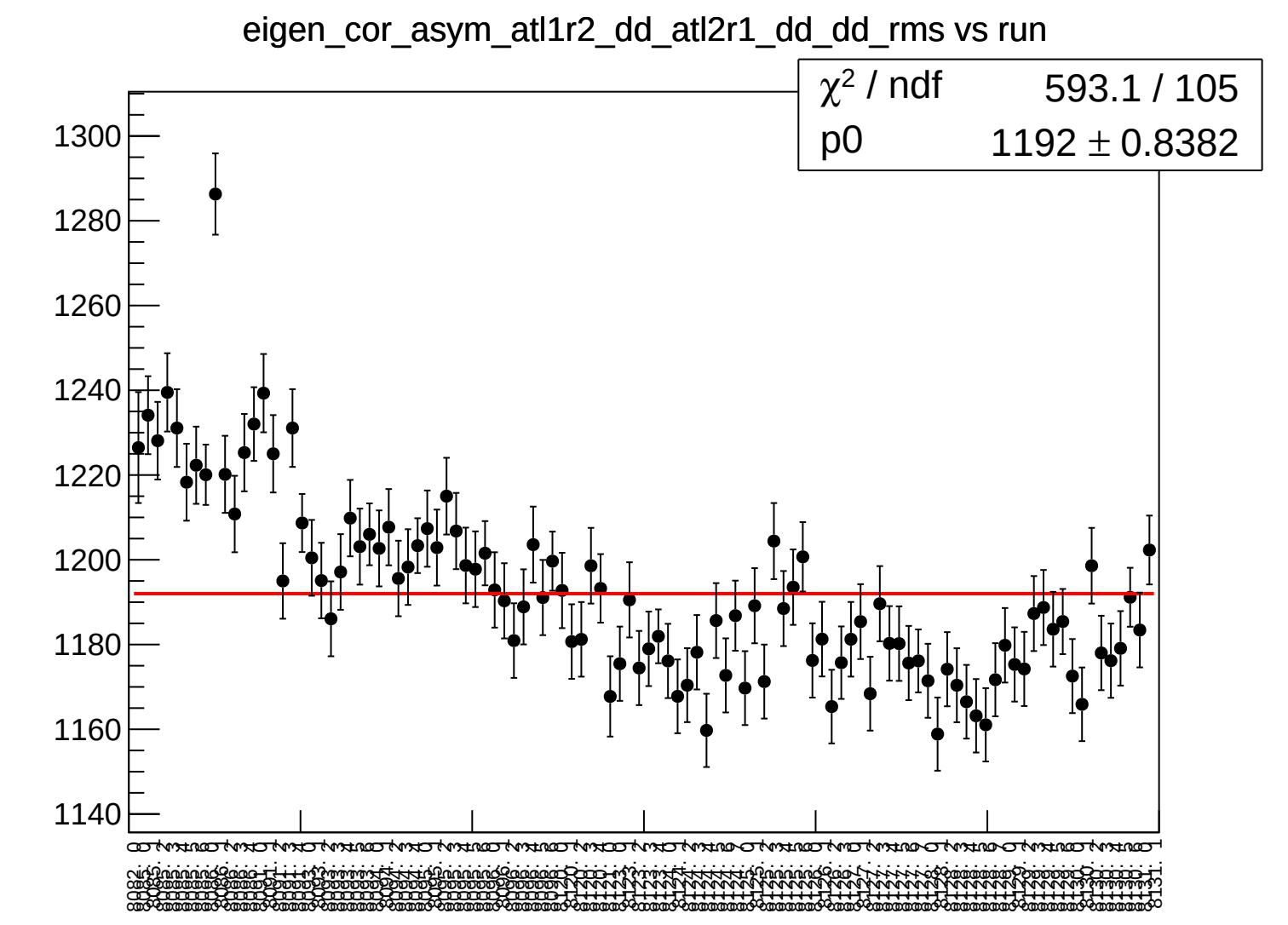

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_mean vs run
×10^3
χ² / ndf 89.63 / 105
p0 −9057 ± 5433
pull
Entries 106
Mean −164.1
Std Dev 0

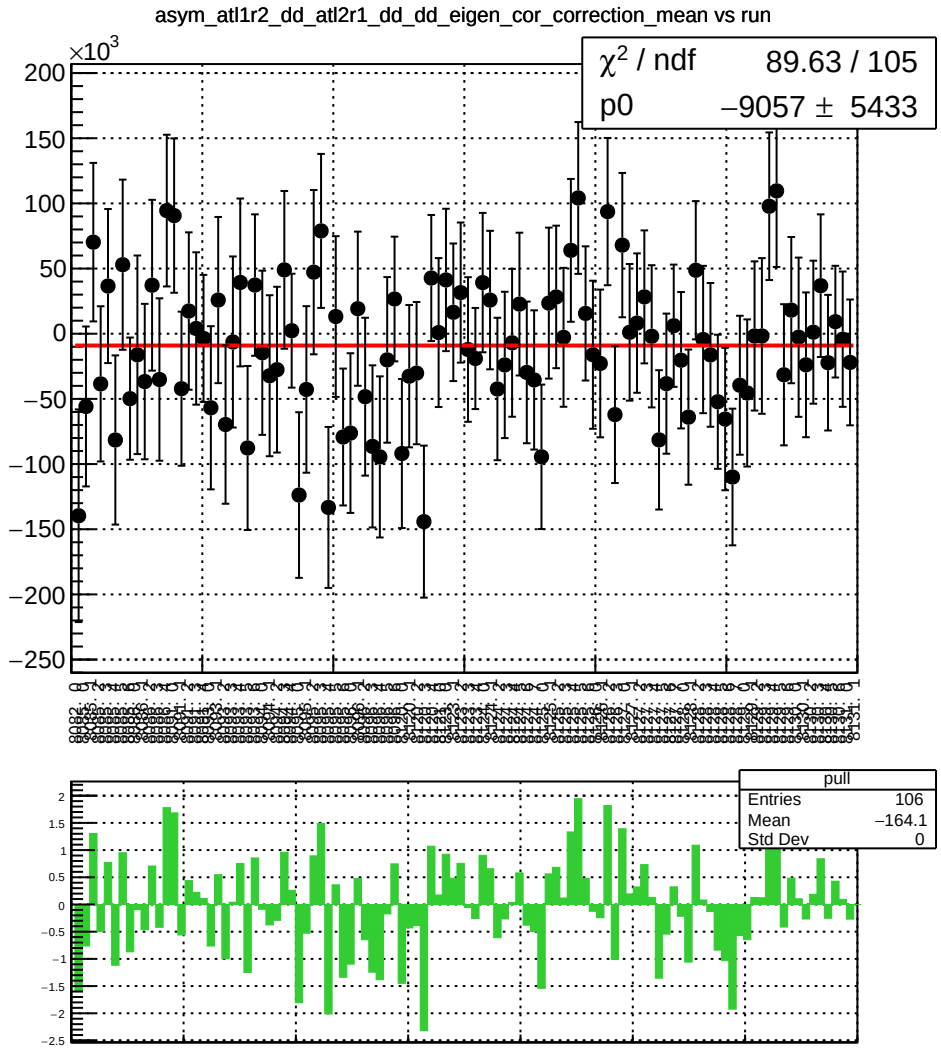

pull1D
Entries 106
Mean −0.009479
Std Dev 0.9195

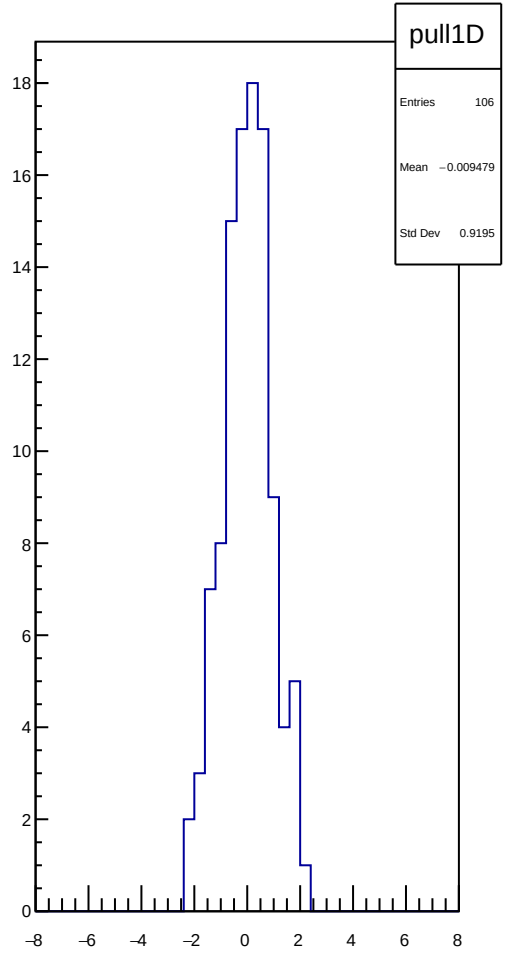

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_rms vs run
χ² / ndf 1.062e+04 / 105
p0 5450 ± 3.842
7500
7000
6500
6000
5500
5000

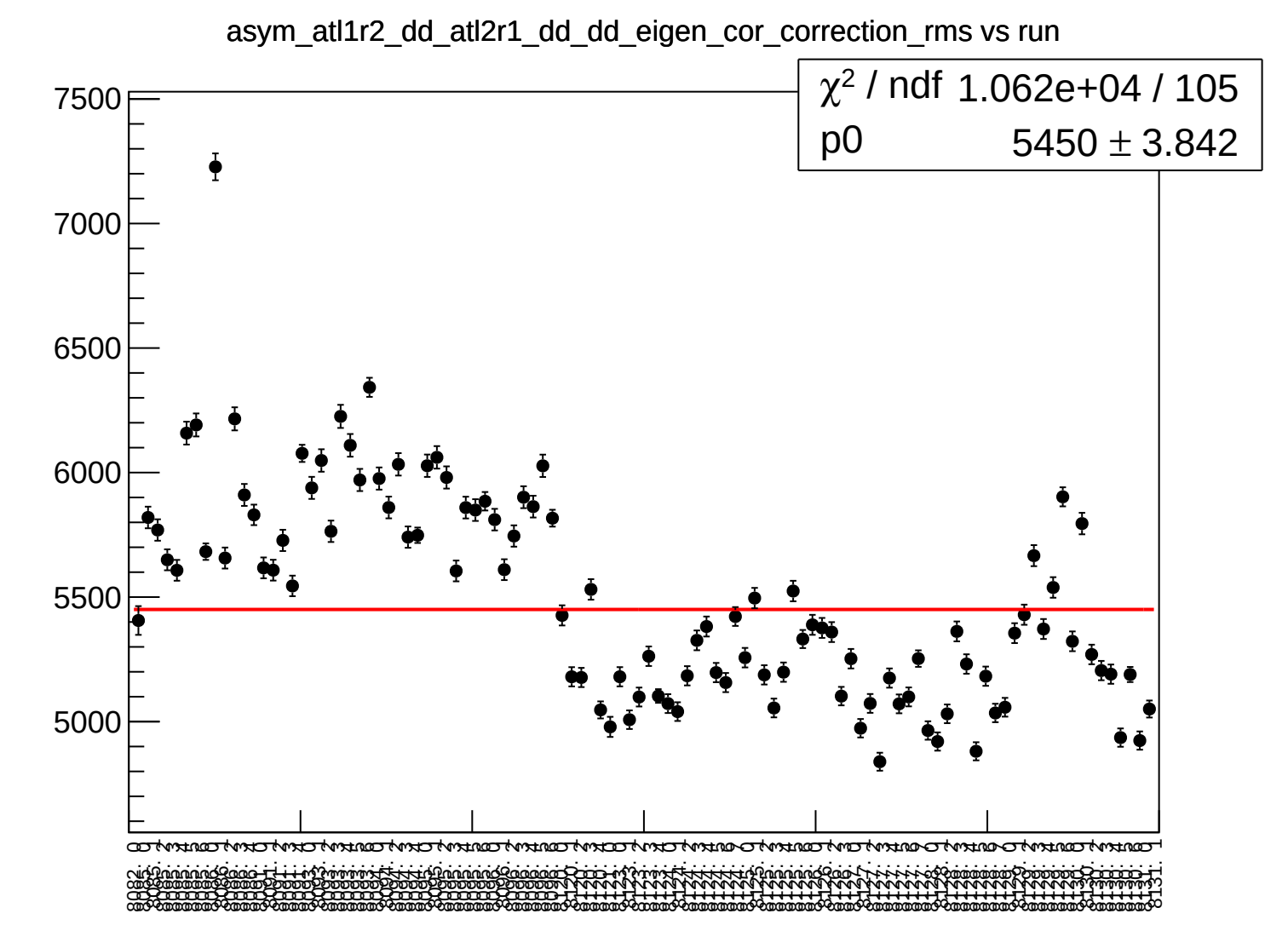

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 111.5 / 105
p0 1711 ± 1185
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean 64.13
Std Dev 71.73
2
1
0
−1
−2
−3

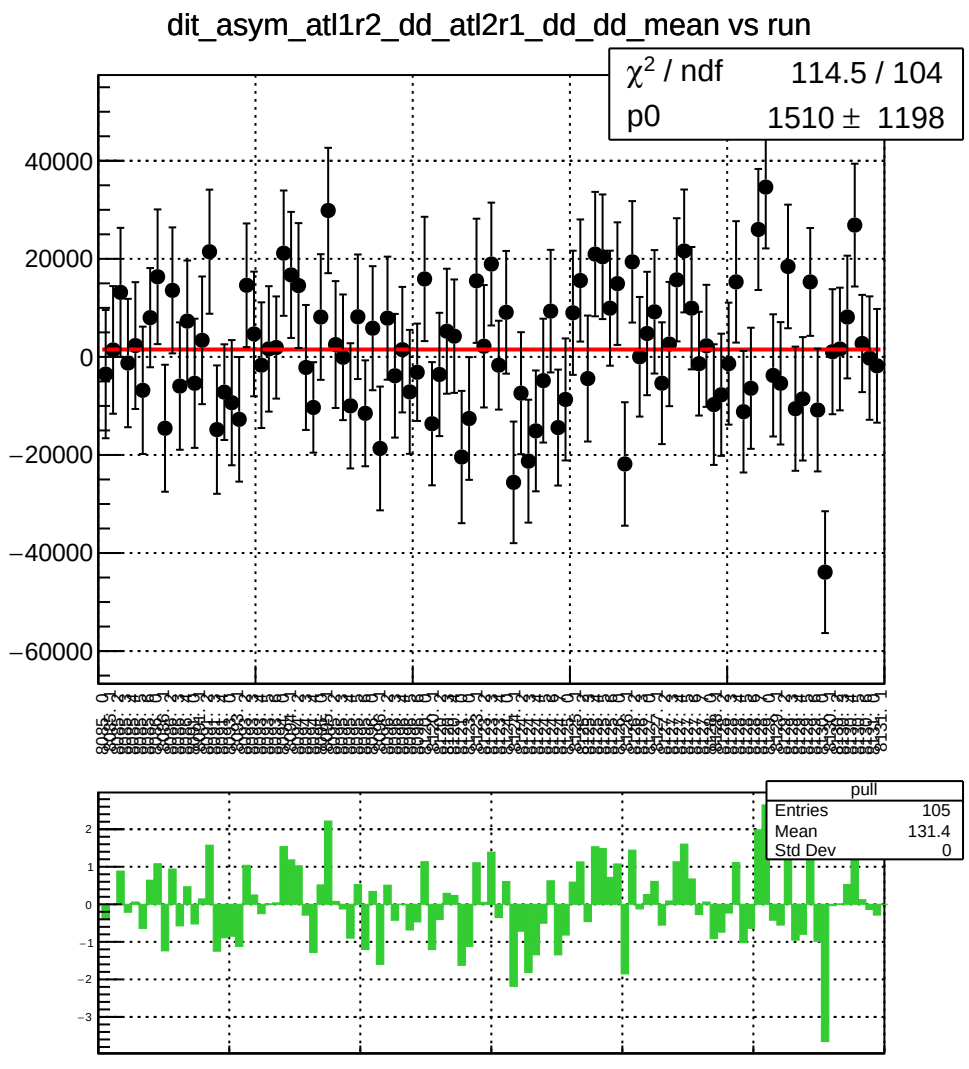

pull1D
Entries 106
Mean 0.009498
Std Dev 1.026
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

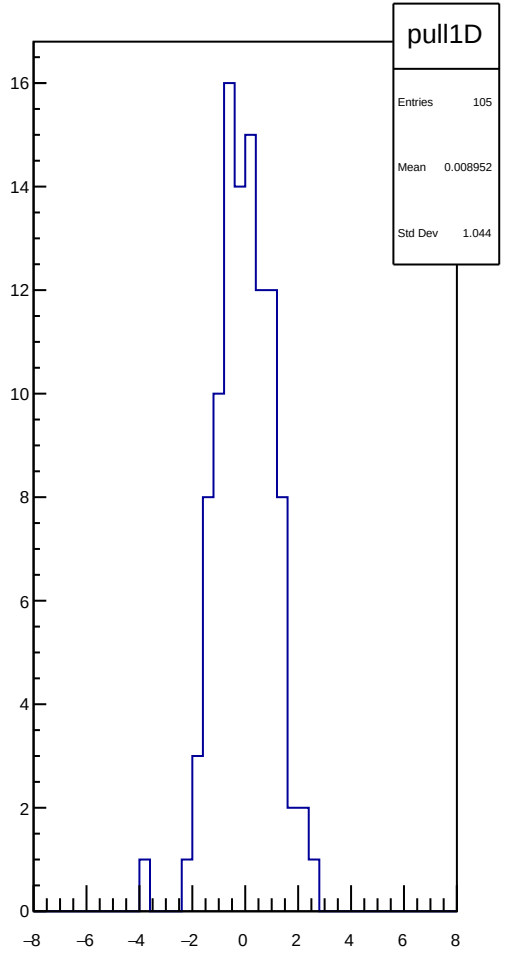

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 593.1 / 105
p0 1192 ± 0.8382
1300
1280
1260
1240
1220
1200
1180
1160
1140

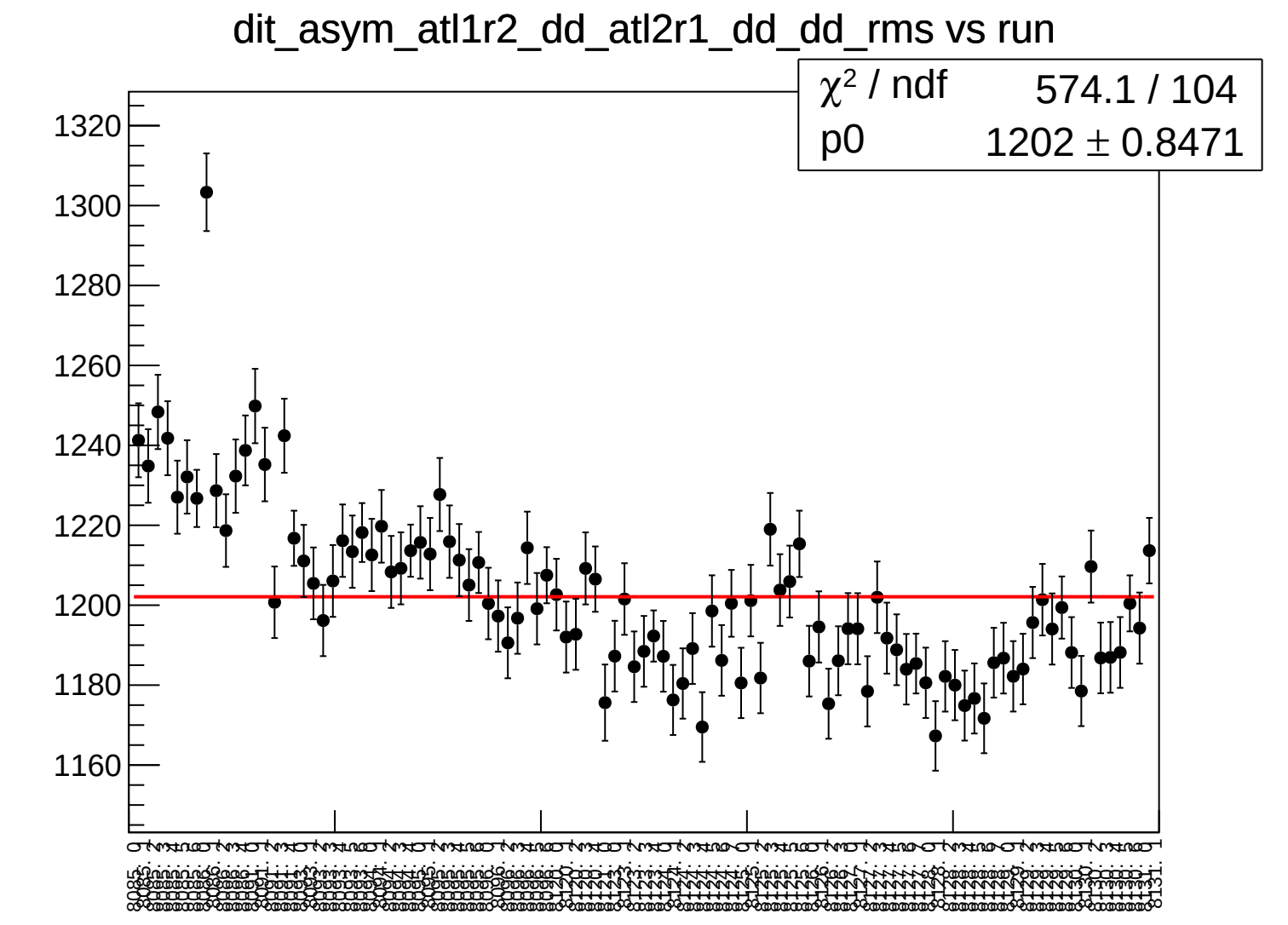

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 89.63 / 105
p0 −9057 ± 5433
pull
Entries 106
Mean −164.1
Std Dev 0

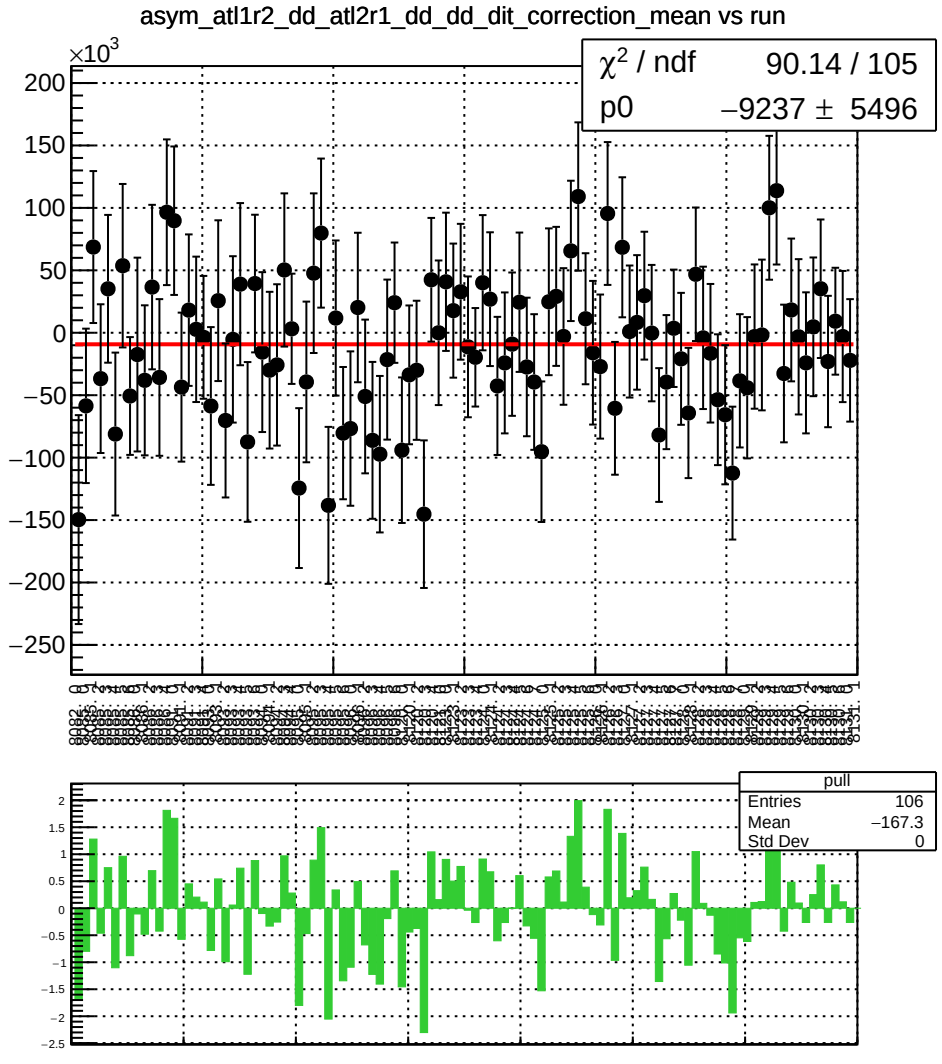

pull1D
Entries 106
Mean −0.009479
Std Dev 0.9195

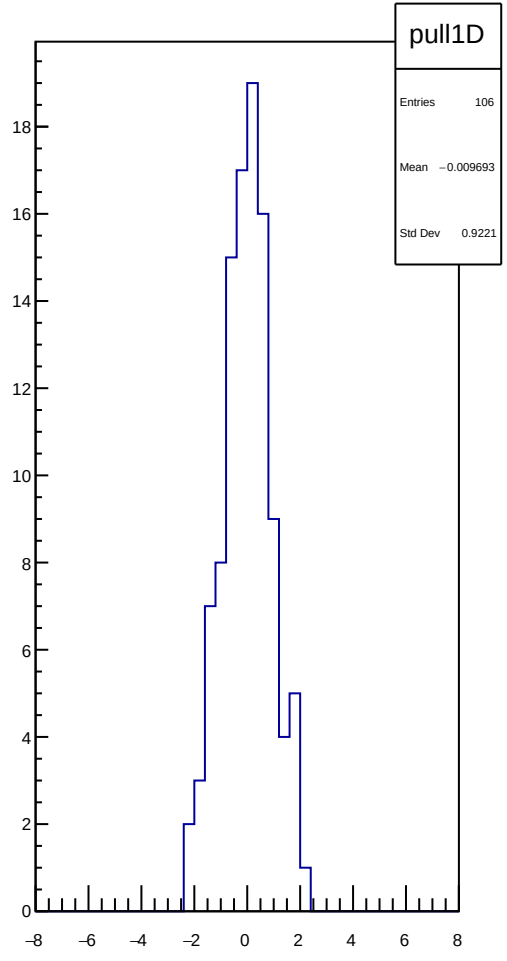

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.062e+04 / 105
p0 5450 ± 3.842
7500
7000
6500
6000
5500
5000

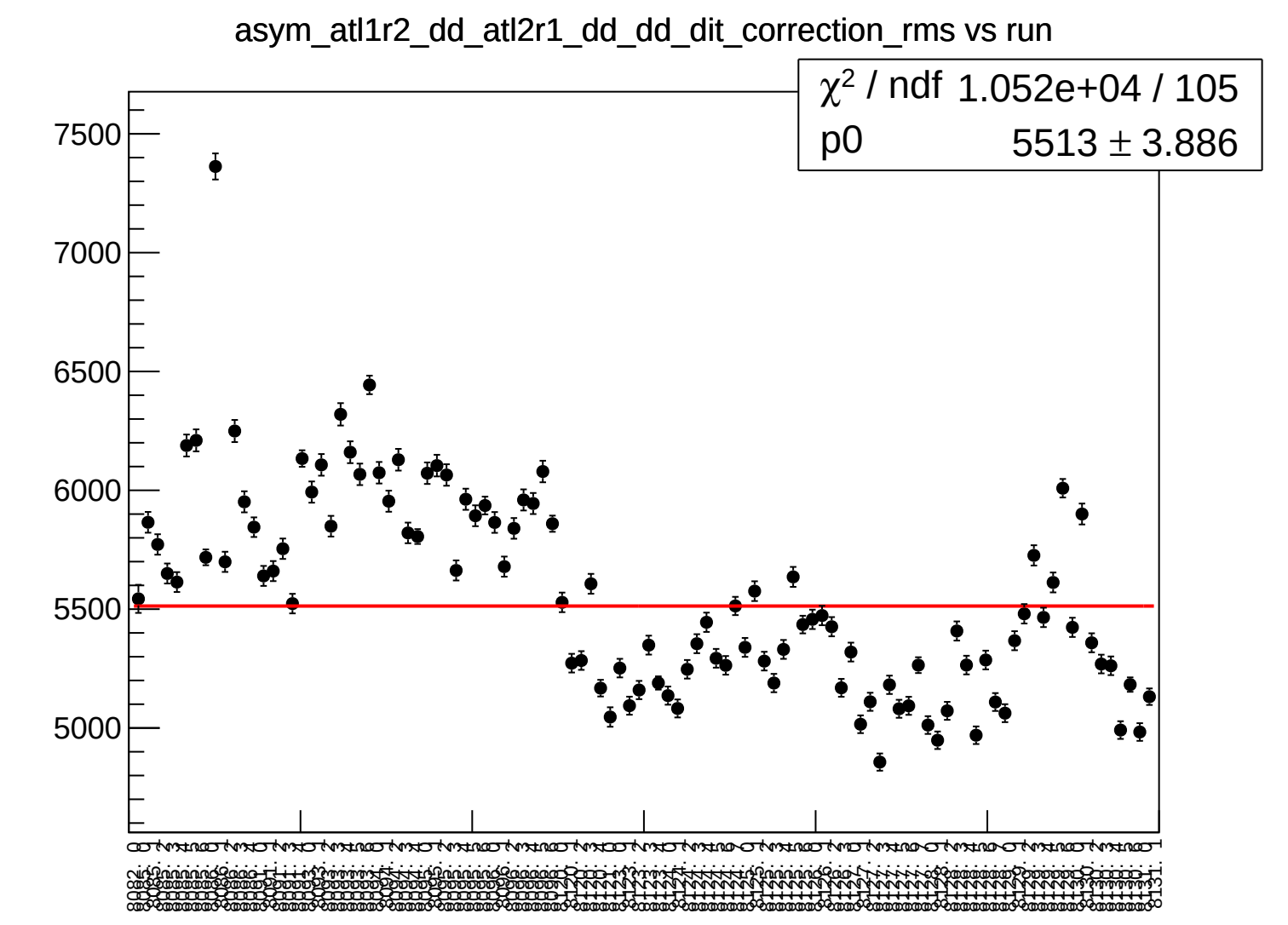

dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 114.5 / 104
p0 1510 ± 1198
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean 131.4
Std Dev 0
2
1
0
−1
−2
−3

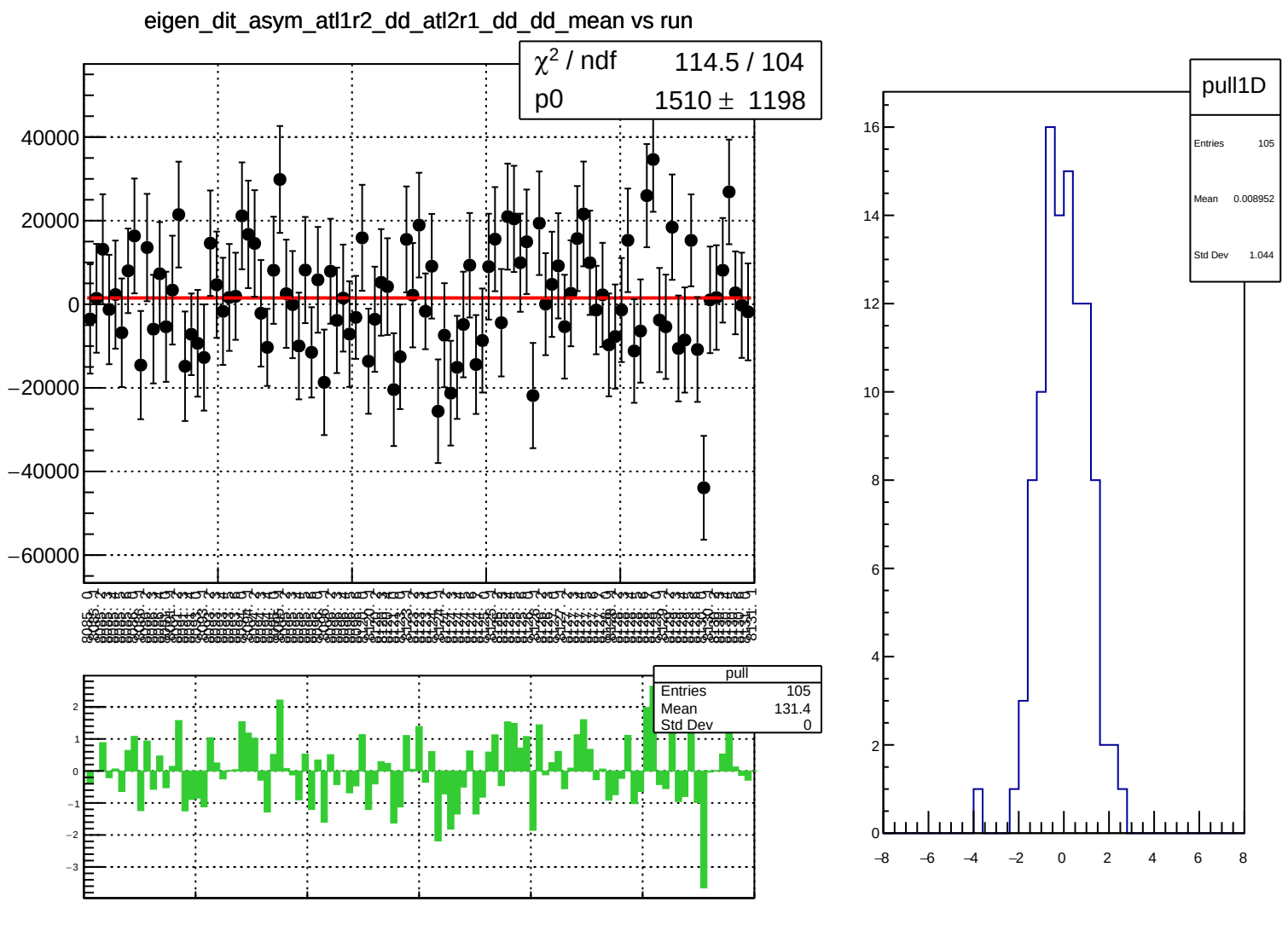

pull1D
Entries 105
Mean 0.008952
Std Dev 1.044
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

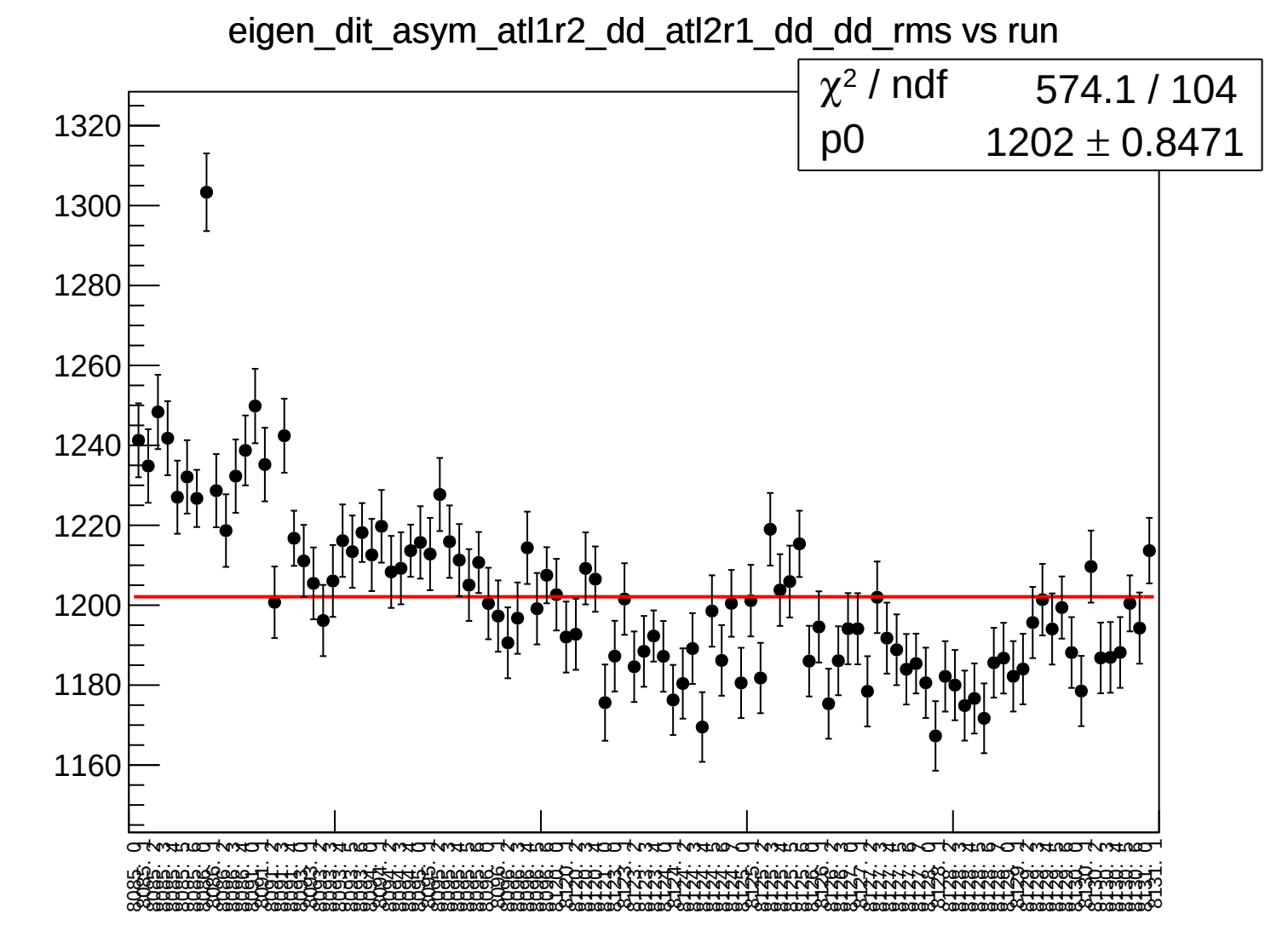

dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 574.1 / 104
p0 1202 ± 0.8471
1320
1300
1280
1260
1240
1220
1200
1180
1160

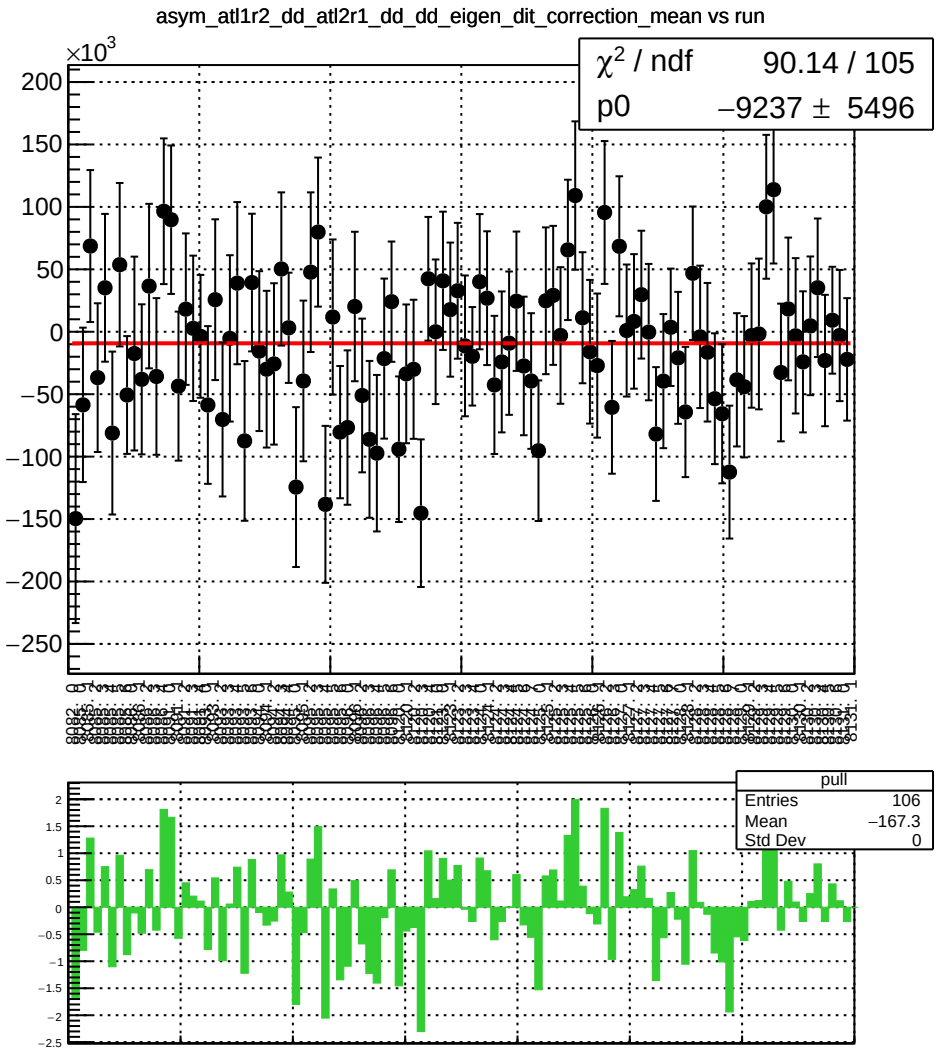

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_mean vs run
×10^3
χ² / ndf 90.14 / 105
p0 −9237 ± 5496
pull
Entries 106
Mean −167.3
Std Dev 0

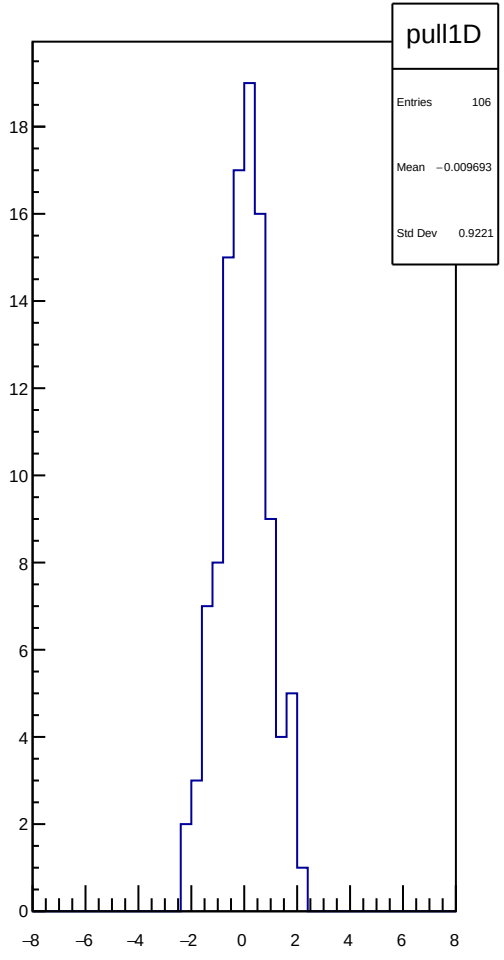

pull1D
Entries 106
Mean −0.009693
Std Dev 0.9221

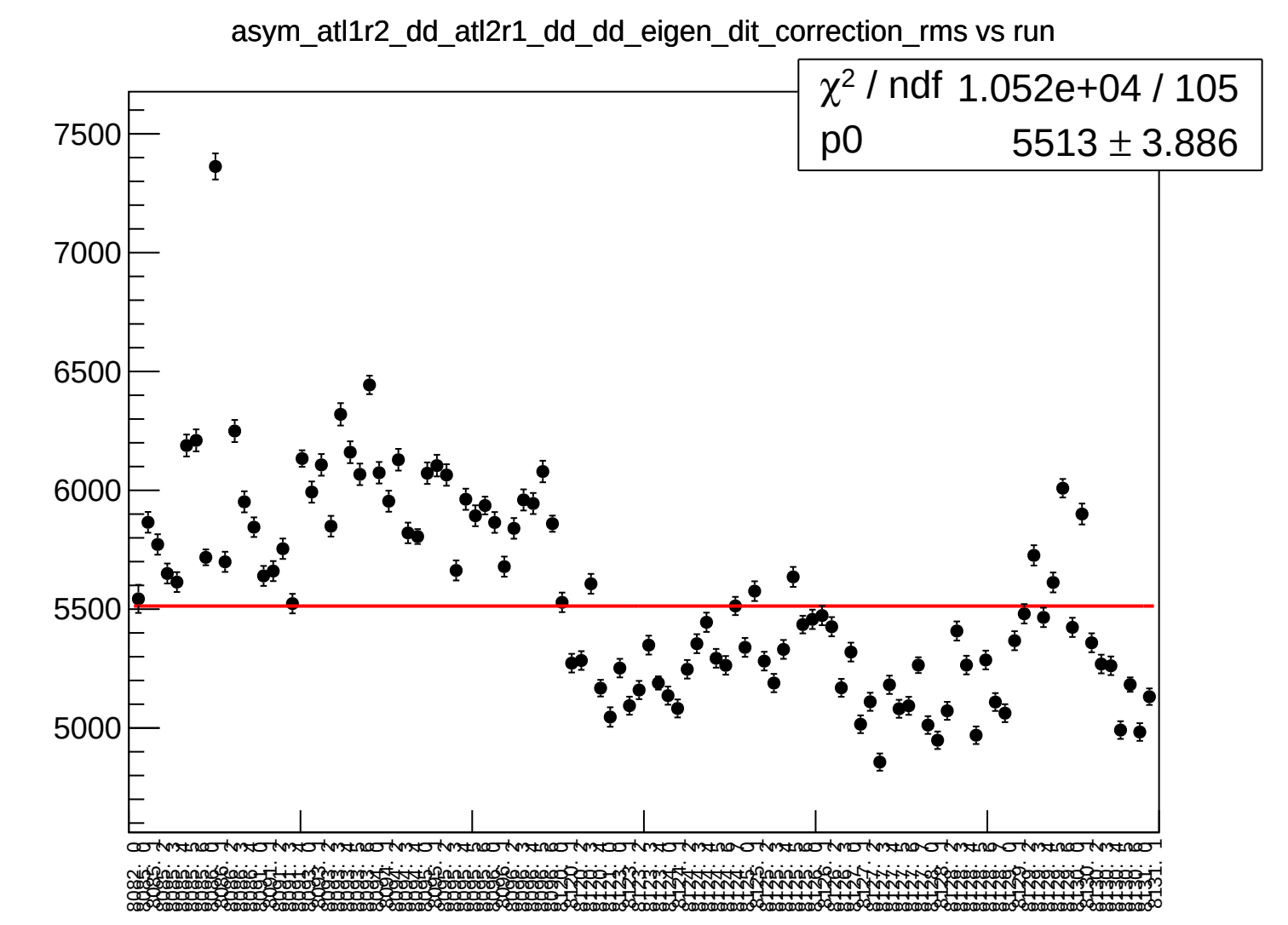

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_rms vs run
χ² / ndf 1.052e+04 / 105
p0 5513 ± 3.886
7500
7000
6500
6000
5500
5000

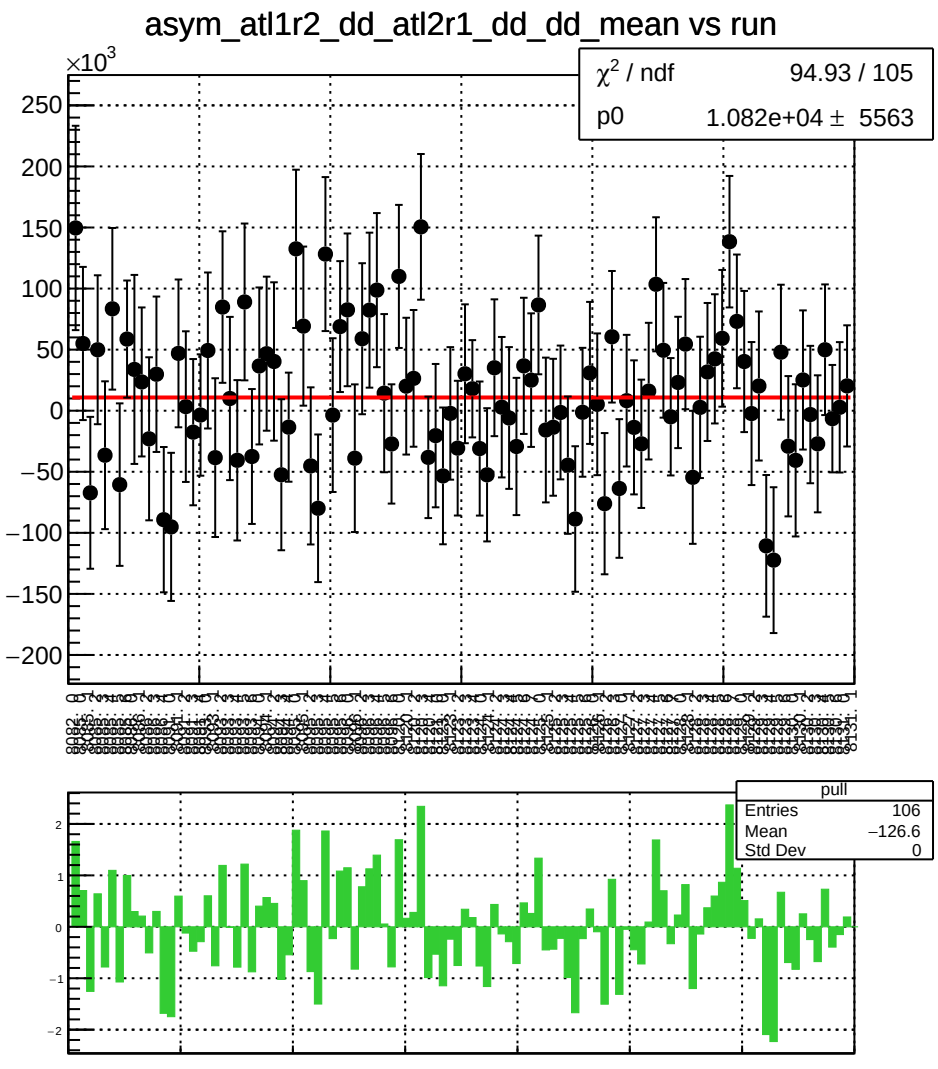

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
χ² / ndf 114.5 / 104
p0 1510 ± 1198
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean 131.4
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 105
Mean 0.008952
Std Dev 1.044
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

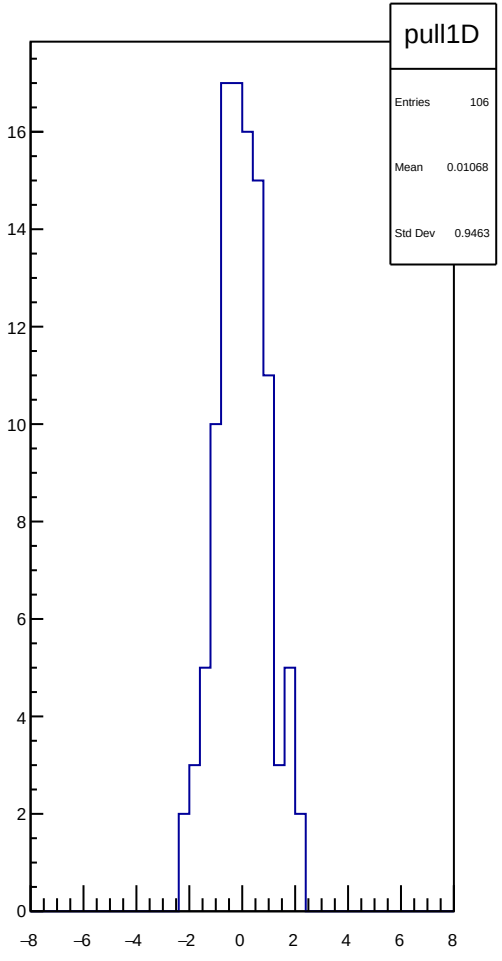

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 574.1 / 104
p0 1202 ± 0.8471
1320
1300
1280
1260
1240
1220
1200
1180
1160

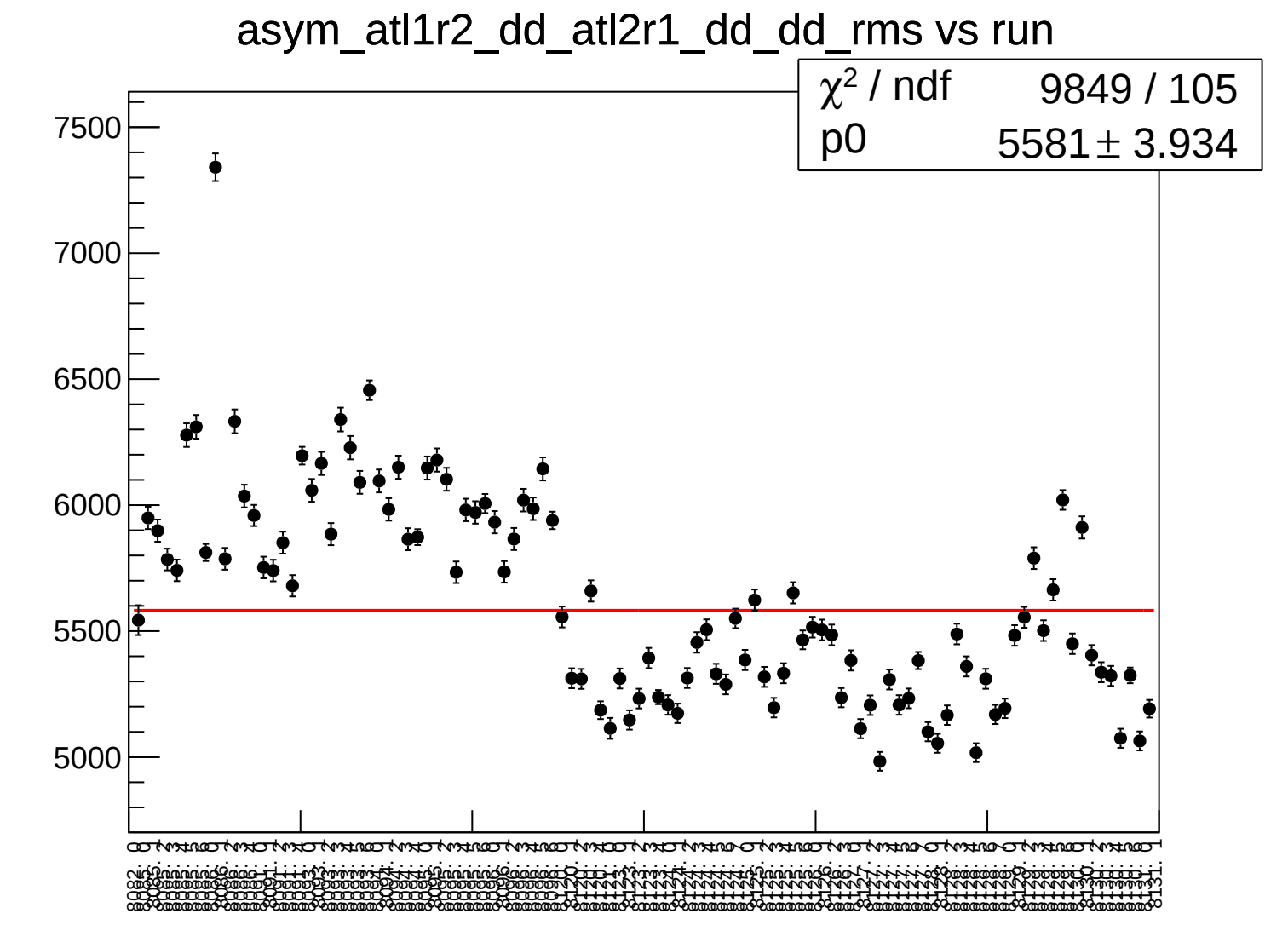

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 90.14 / 105
p0 −9237 ± 5496
pull
Entries 106
Mean −167.3
Std Dev 0

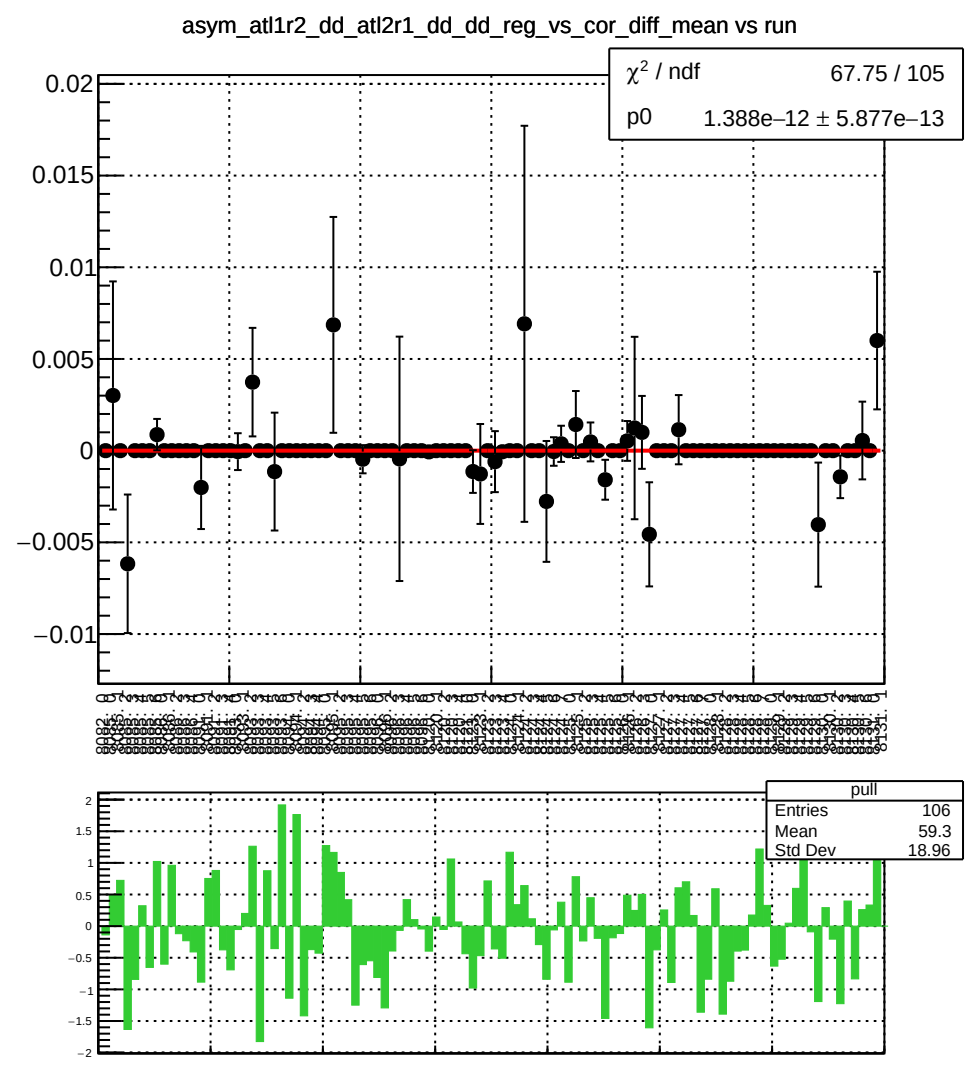

pull1D
Entries 106
Mean −0.009693
Std Dev 0.9221

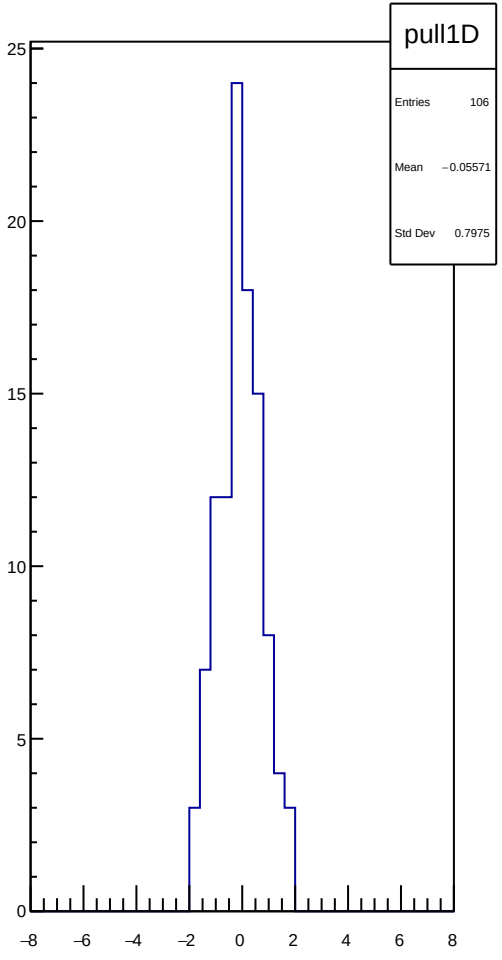

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.052e+04 / 105
p0 5513 ± 3.886
7500
7000
6500
6000
5500
5000

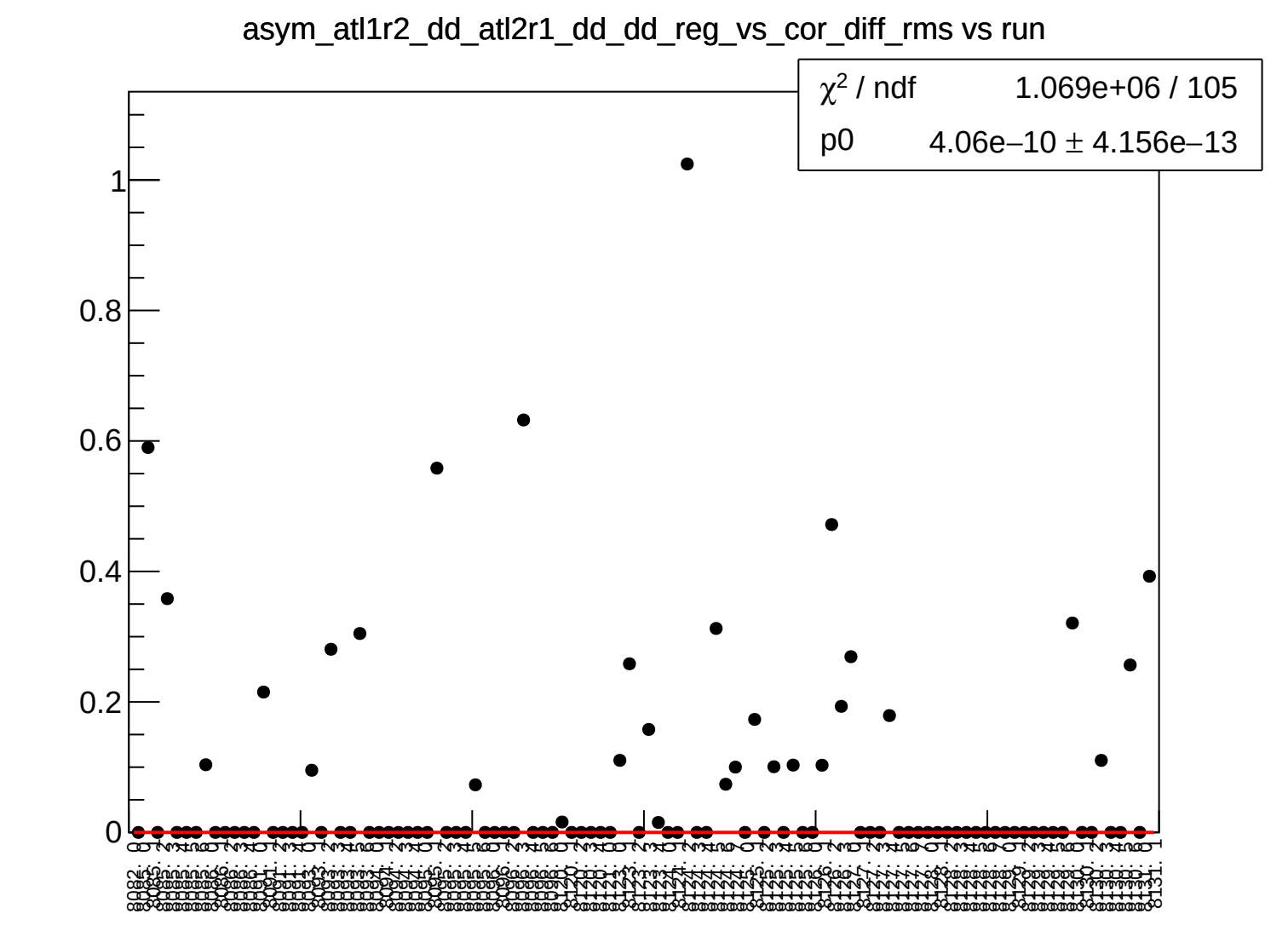

asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
×10^3
χ² / ndf 94.93 / 105
p0 1.082e+04 ± 5563
pull
Entries 106
Mean −126.6
Std Dev 0

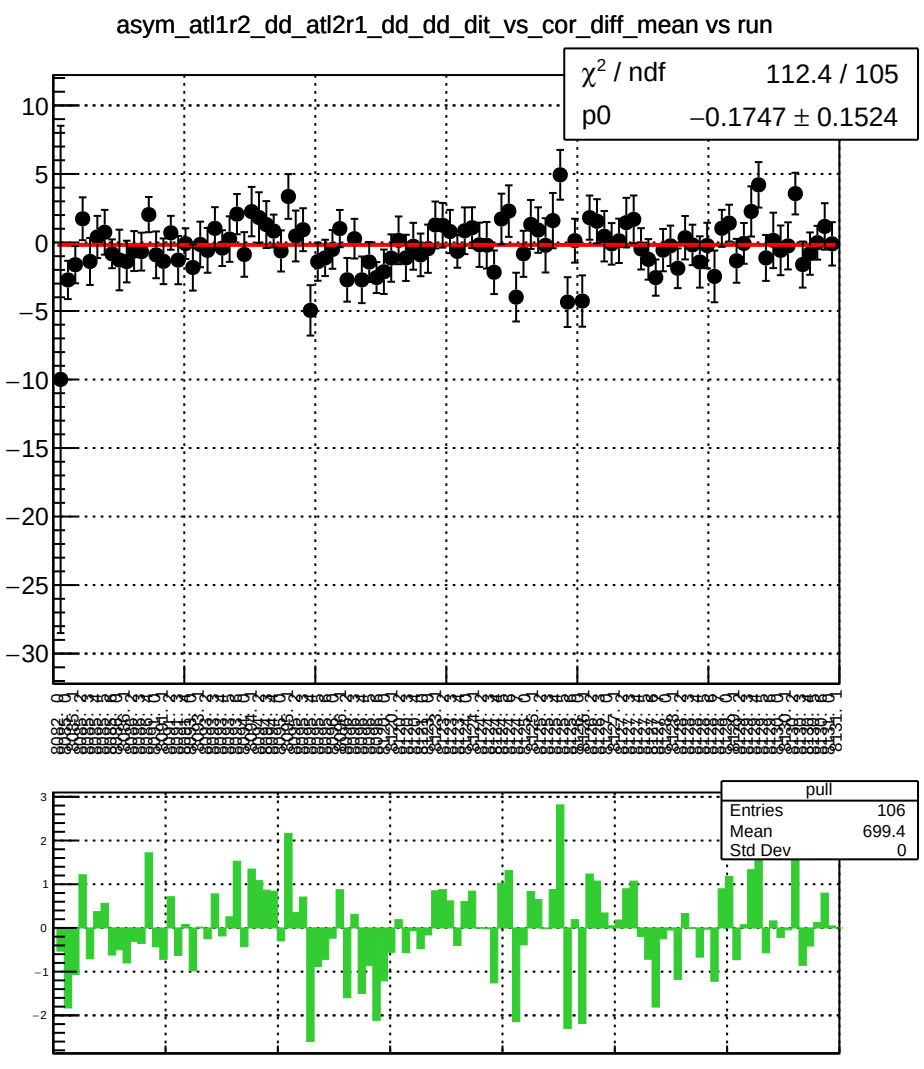

pull1D
Entries 106
Mean 0.01068
Std Dev 0.9463

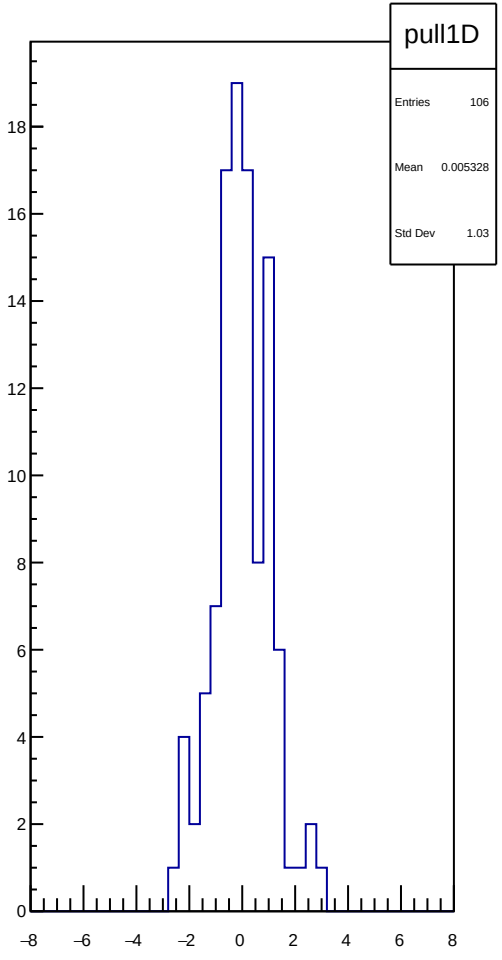

asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 9849 / 105
p0 5581 ± 3.934
7500
7000
6500
6000
5500
5000

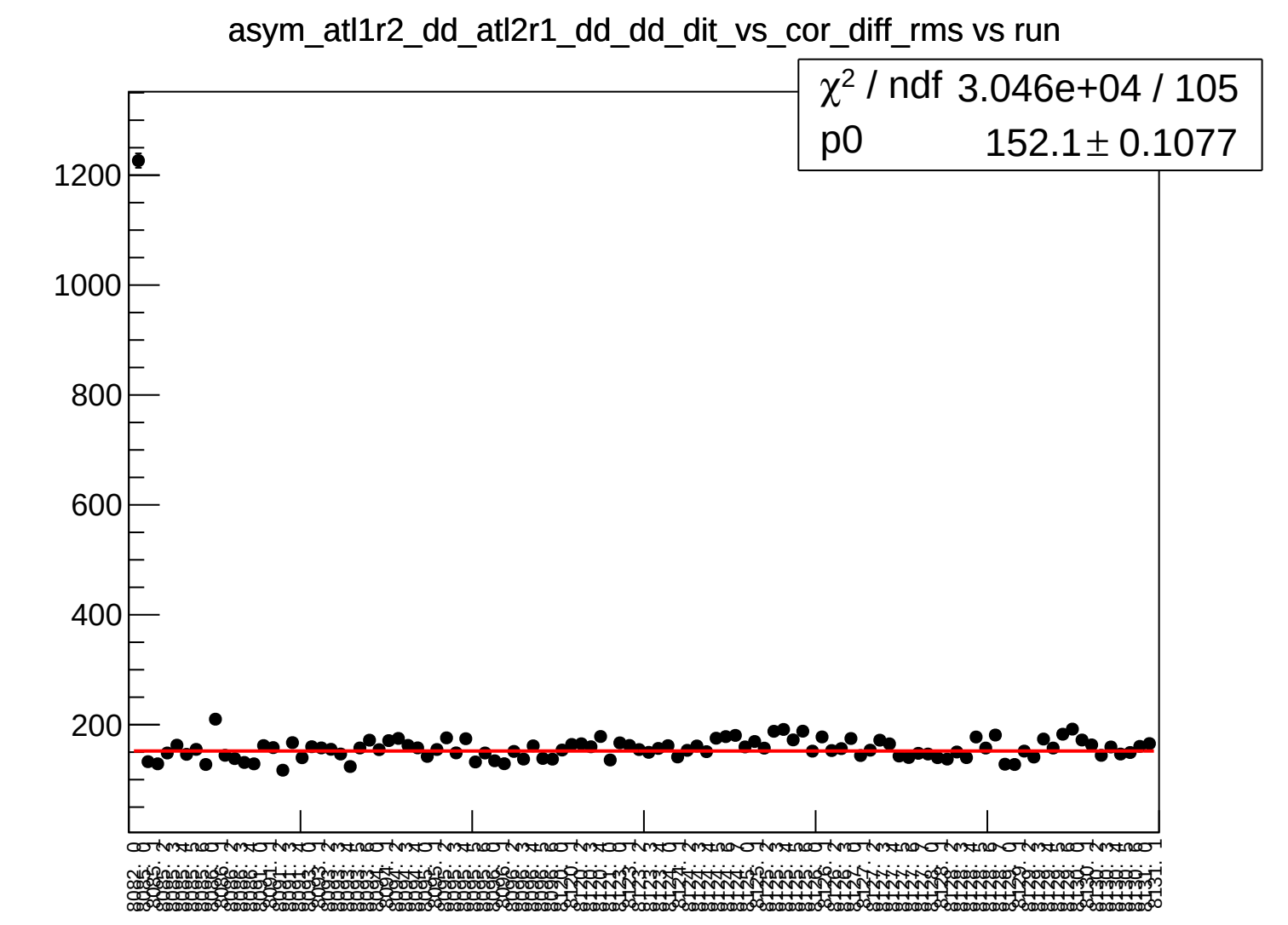

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 67.75 / 105
p0 1.388e−12 ± 5.877e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
pull
Entries 106
Mean 59.3
Std Dev 18.96
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

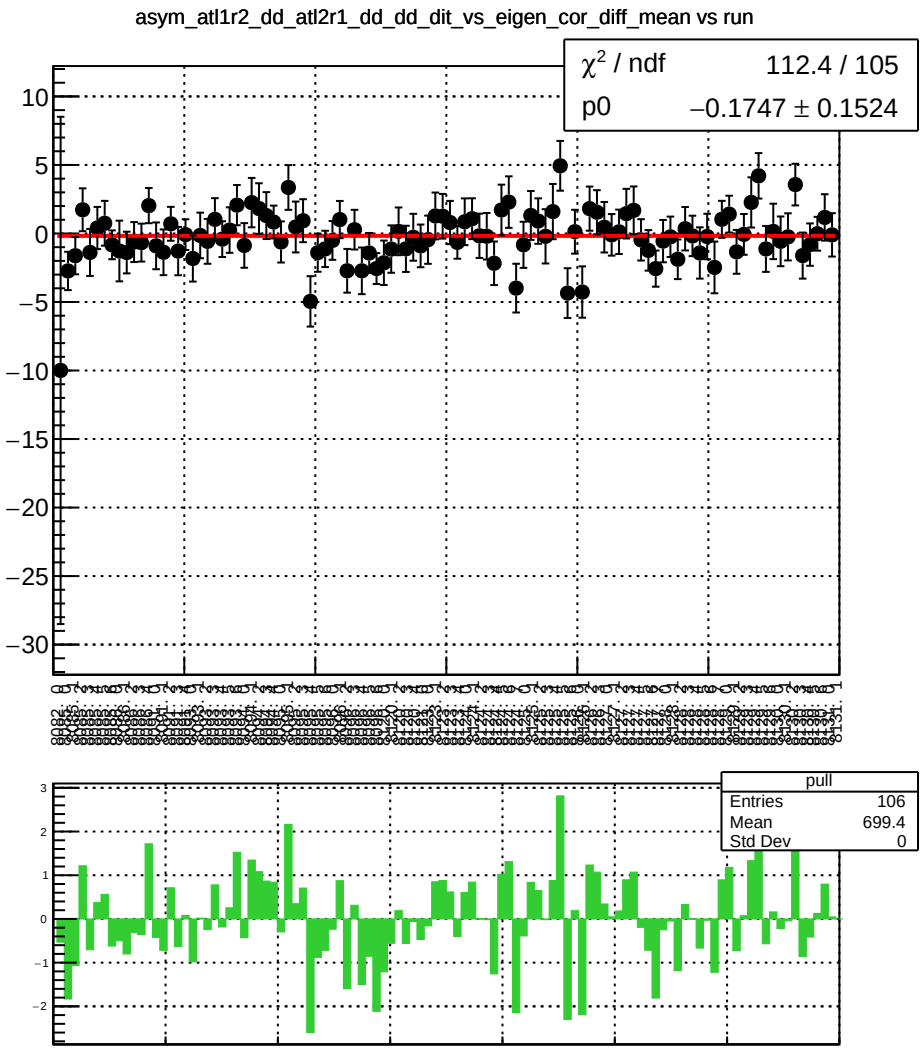

pull1D
Entries 106
Mean −0.05571
Std Dev 0.7975
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

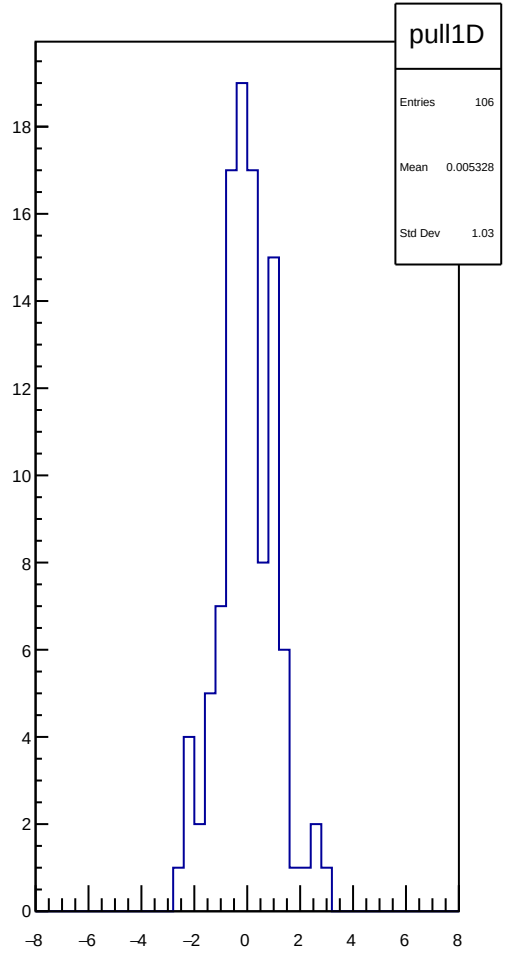

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.069e+06 / 105
p0 4.06e−10 ± 4.156e−13
1
0.8
0.6
0.4
0.2
0

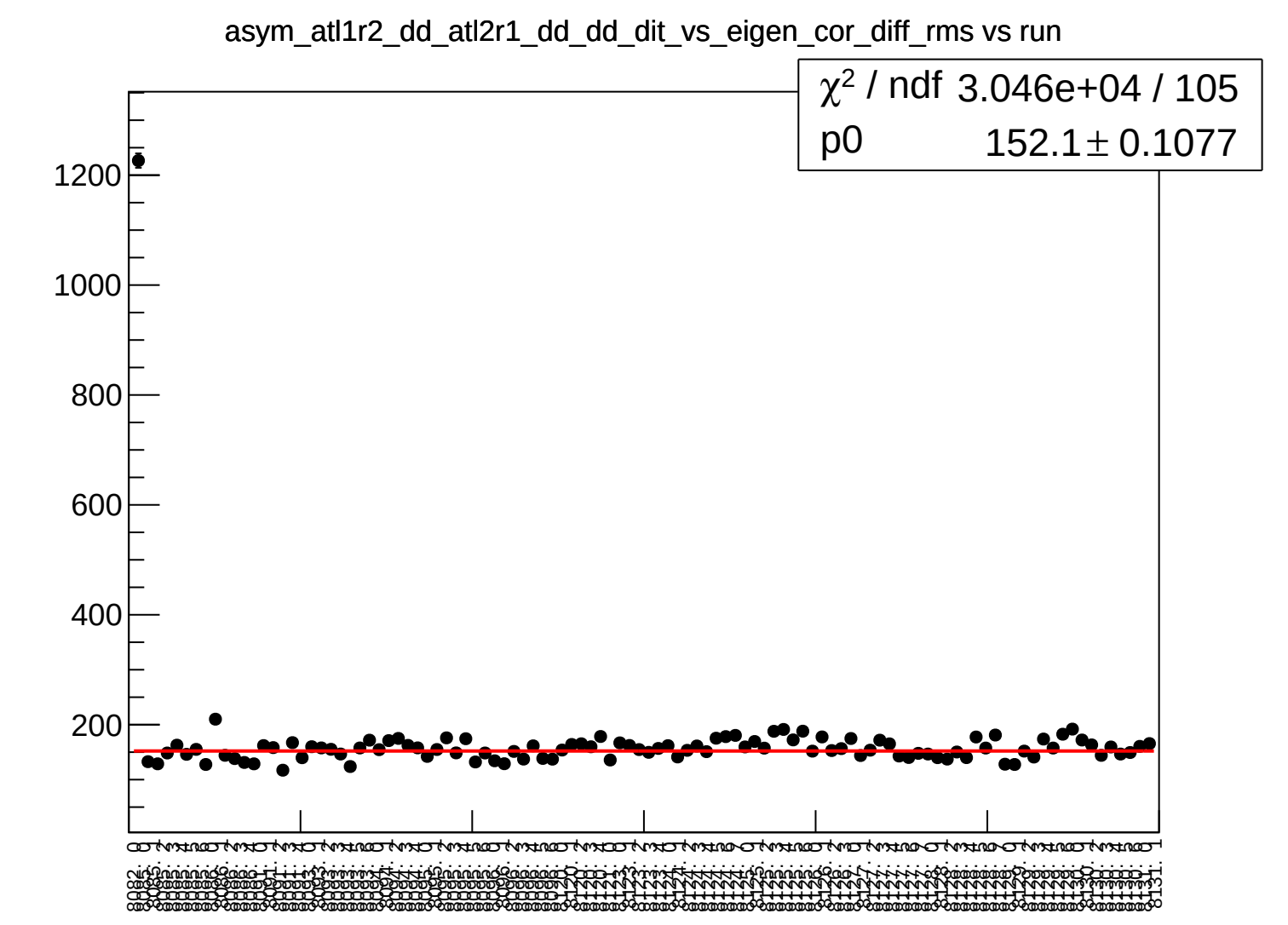

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 112.4 / 105
p0 −0.1747 ± 0.1524
pull
Entries 106
Mean 699.4
Std Dev 0

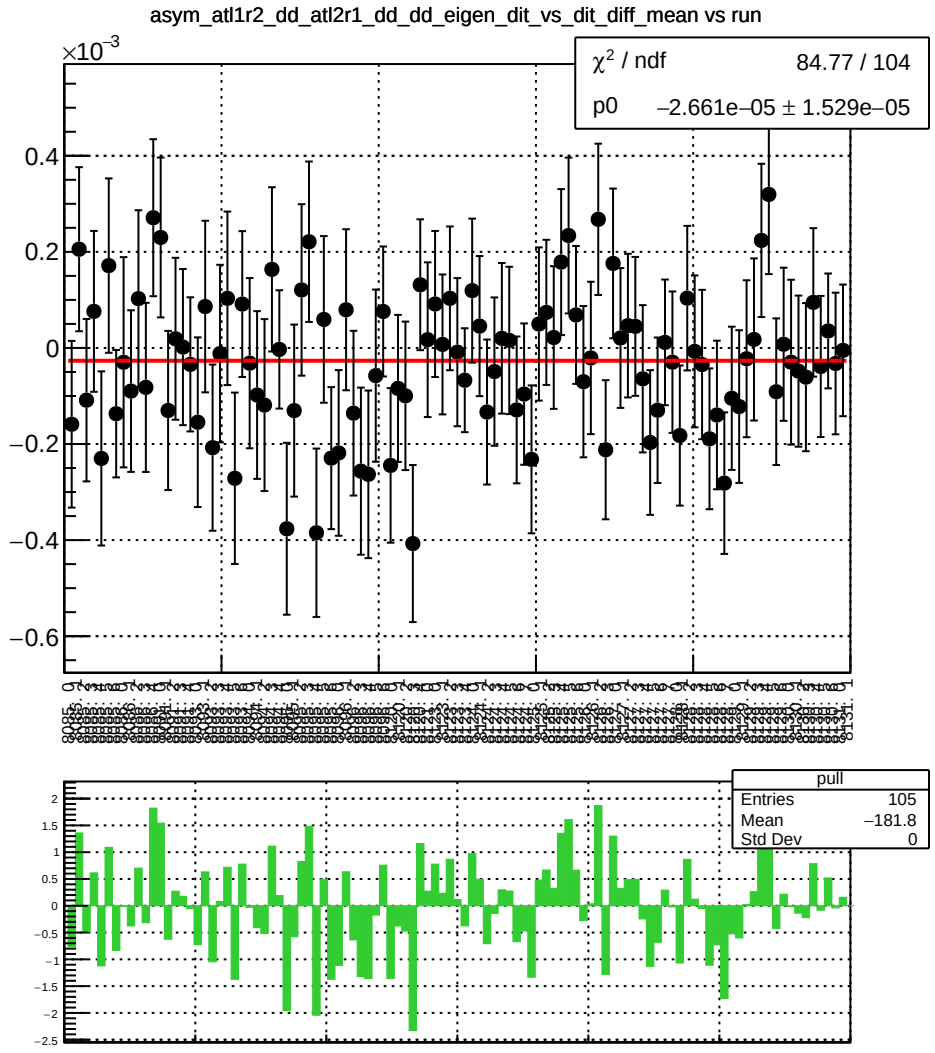

pull1D
Entries 106
Mean 0.005328
Std Dev 1.03

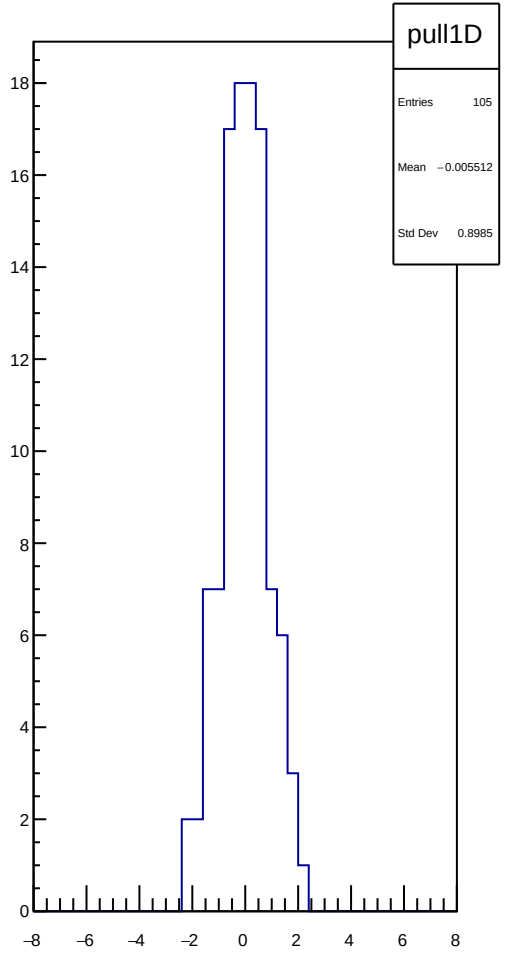

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.046e+04 / 105
p0 152.1 ± 0.1077
1200
1000
800
600
400
200

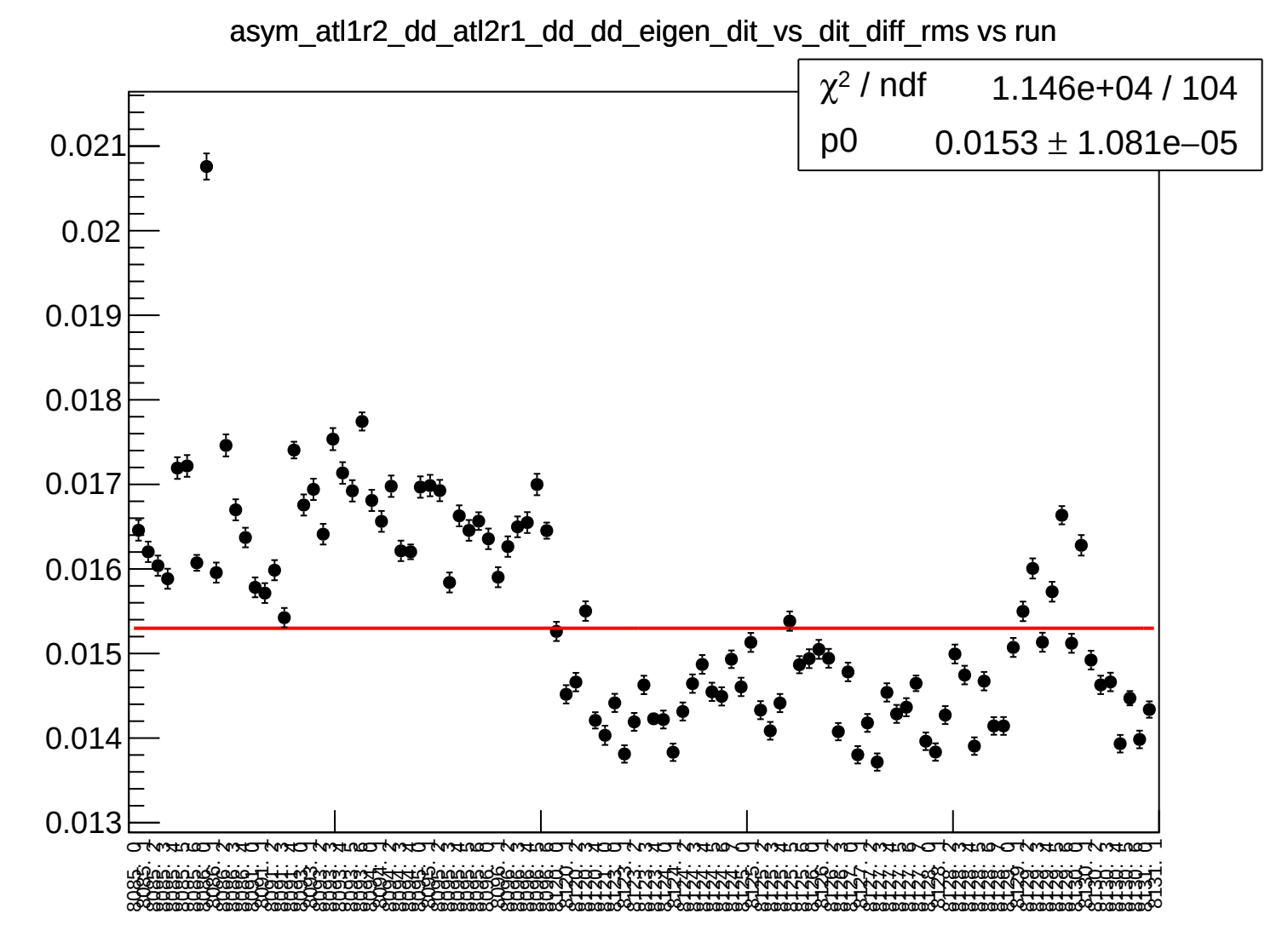

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 112.4 / 105
p0 −0.1747 ± 0.1524
pull
Entries 106
Mean 699.4
Std Dev 0

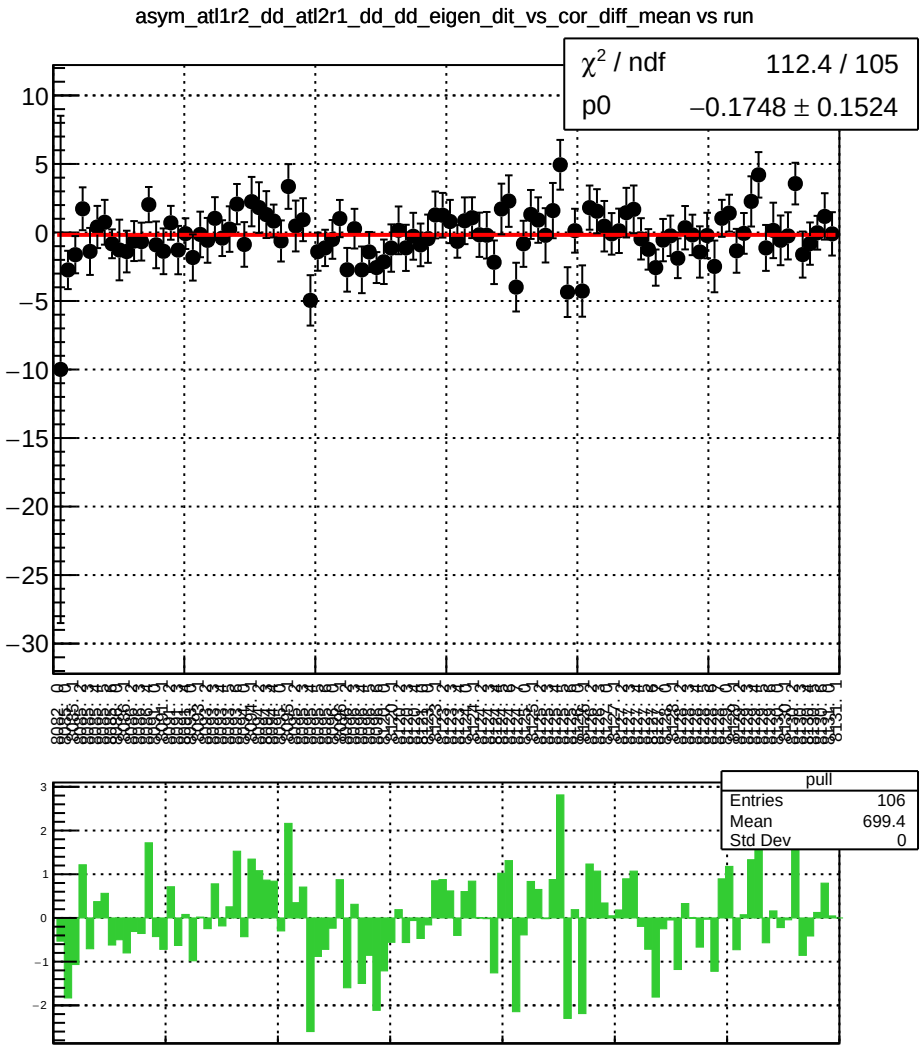

pull1D
Entries 106
Mean 0.005328
Std Dev 1.03

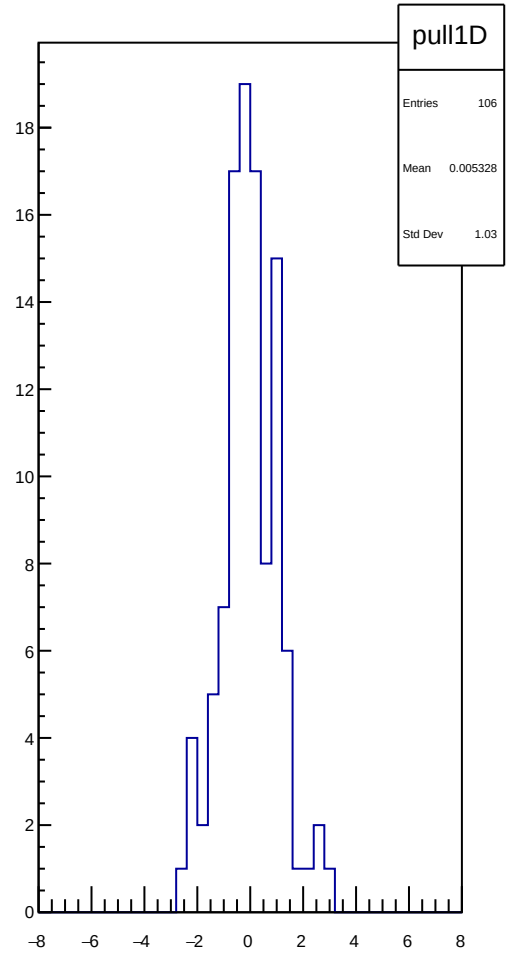

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.046e+04 / 105
p0 152.1 ± 0.1077
1200
1000
800
600
400
200

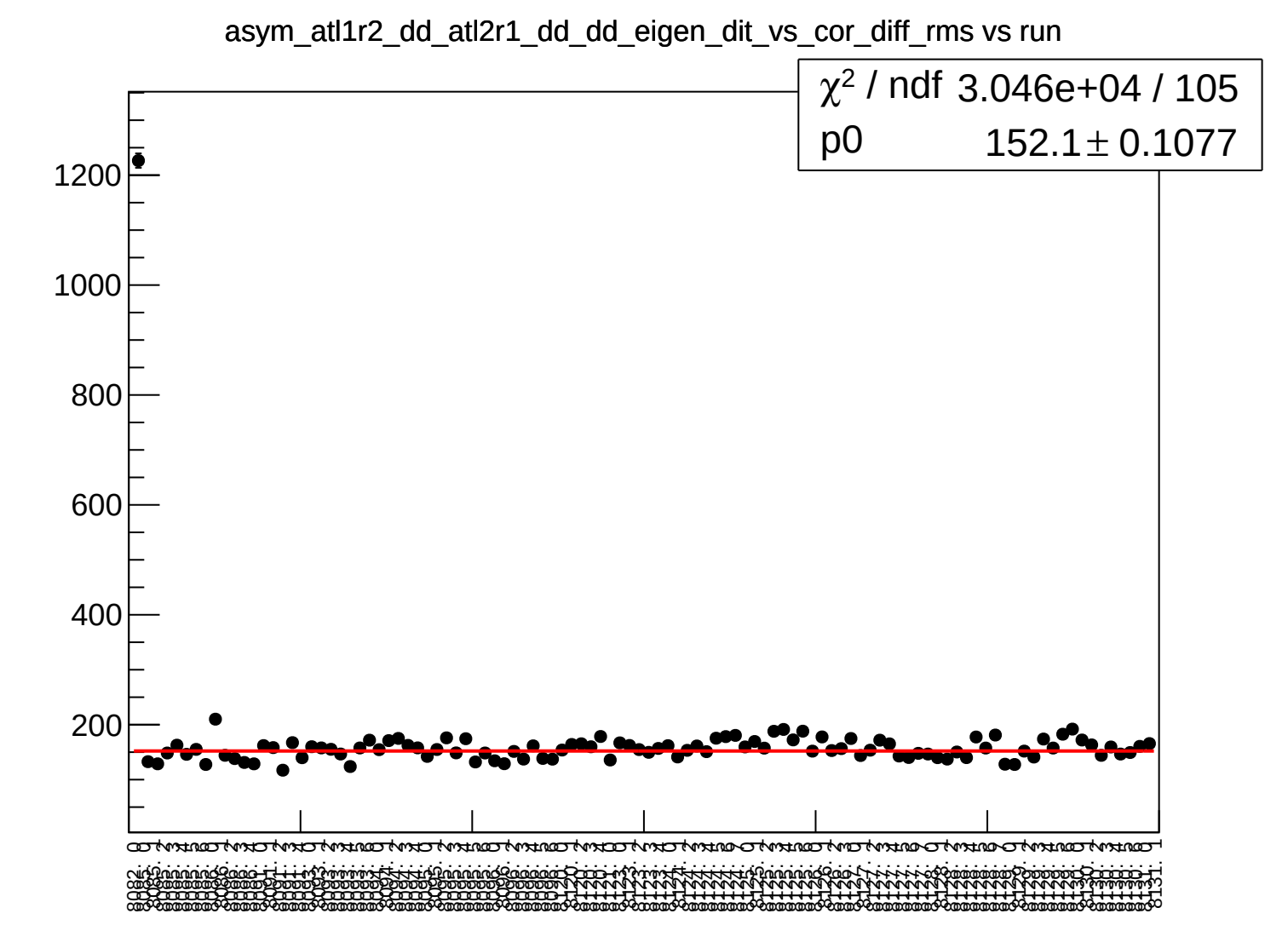

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84.77 / 104
p0 −2.661e−05 ± 1.529e−05
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 105
Mean −181.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

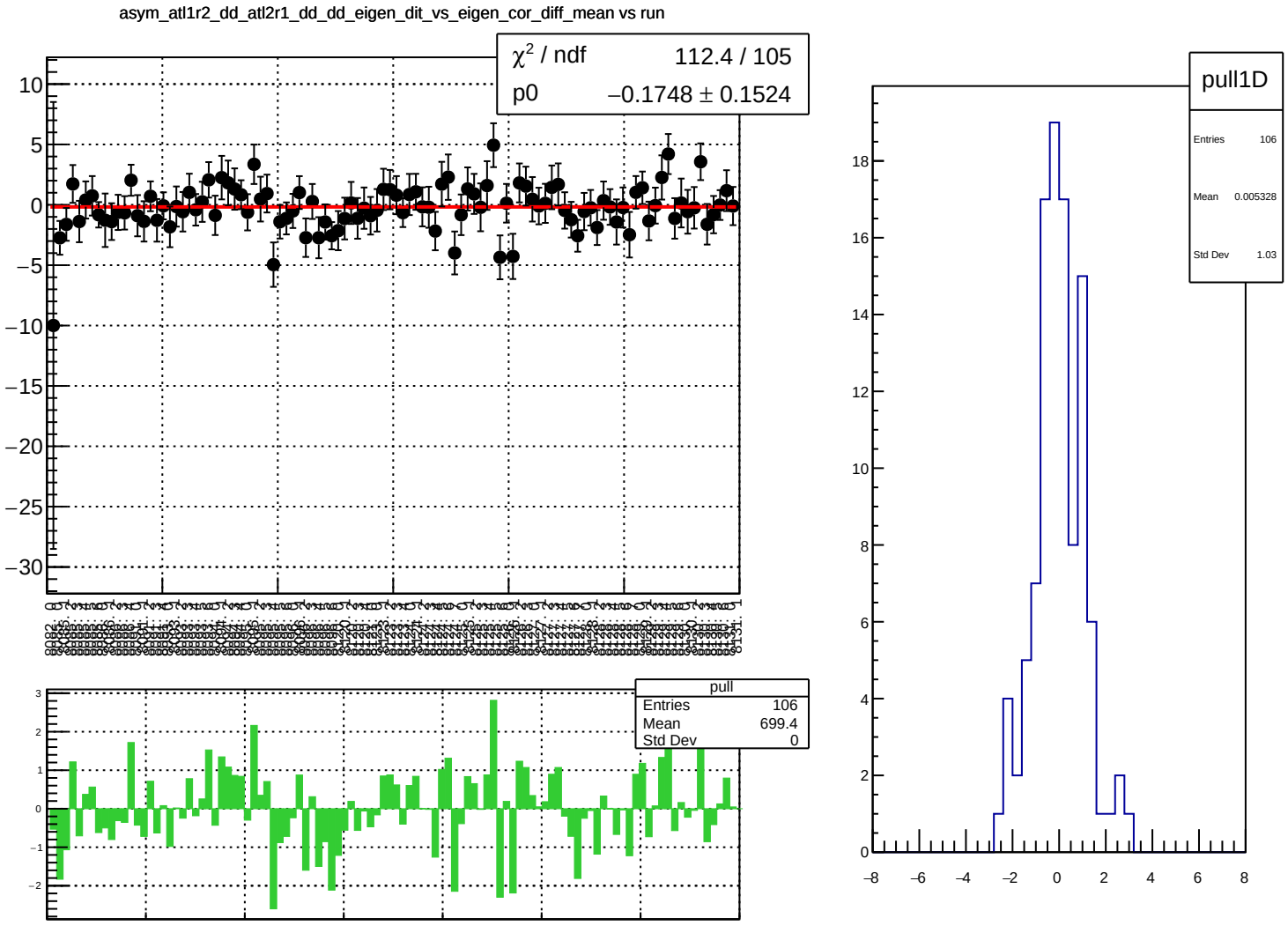

pull1D
Entries 105
Mean −0.005512
Std Dev 0.8985
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

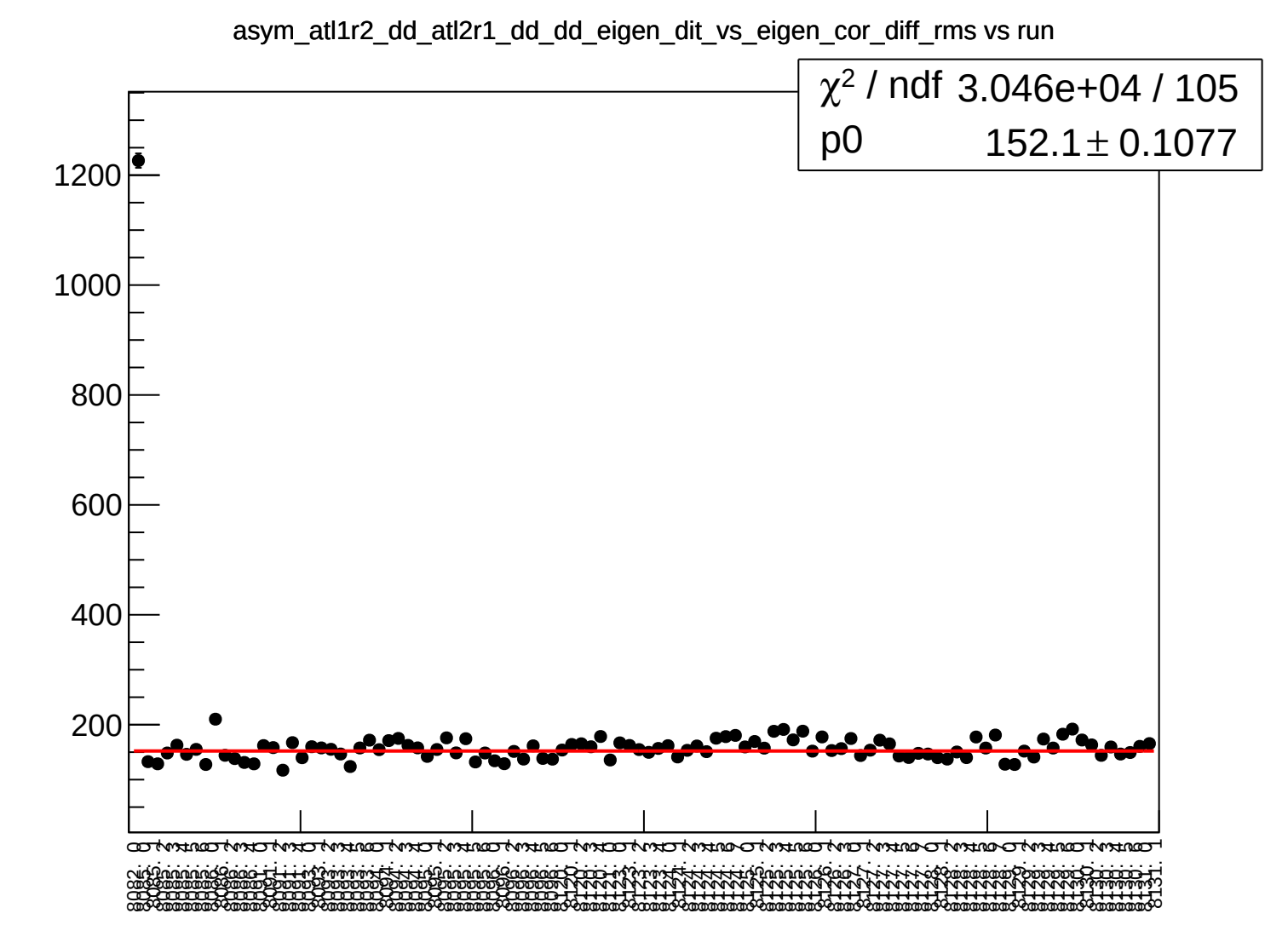

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.146e+04 / 104
p0 0.0153 ± 1.081e−05
0.021
0.02
0.019
0.018
0.017
0.016
0.015
0.014
0.013

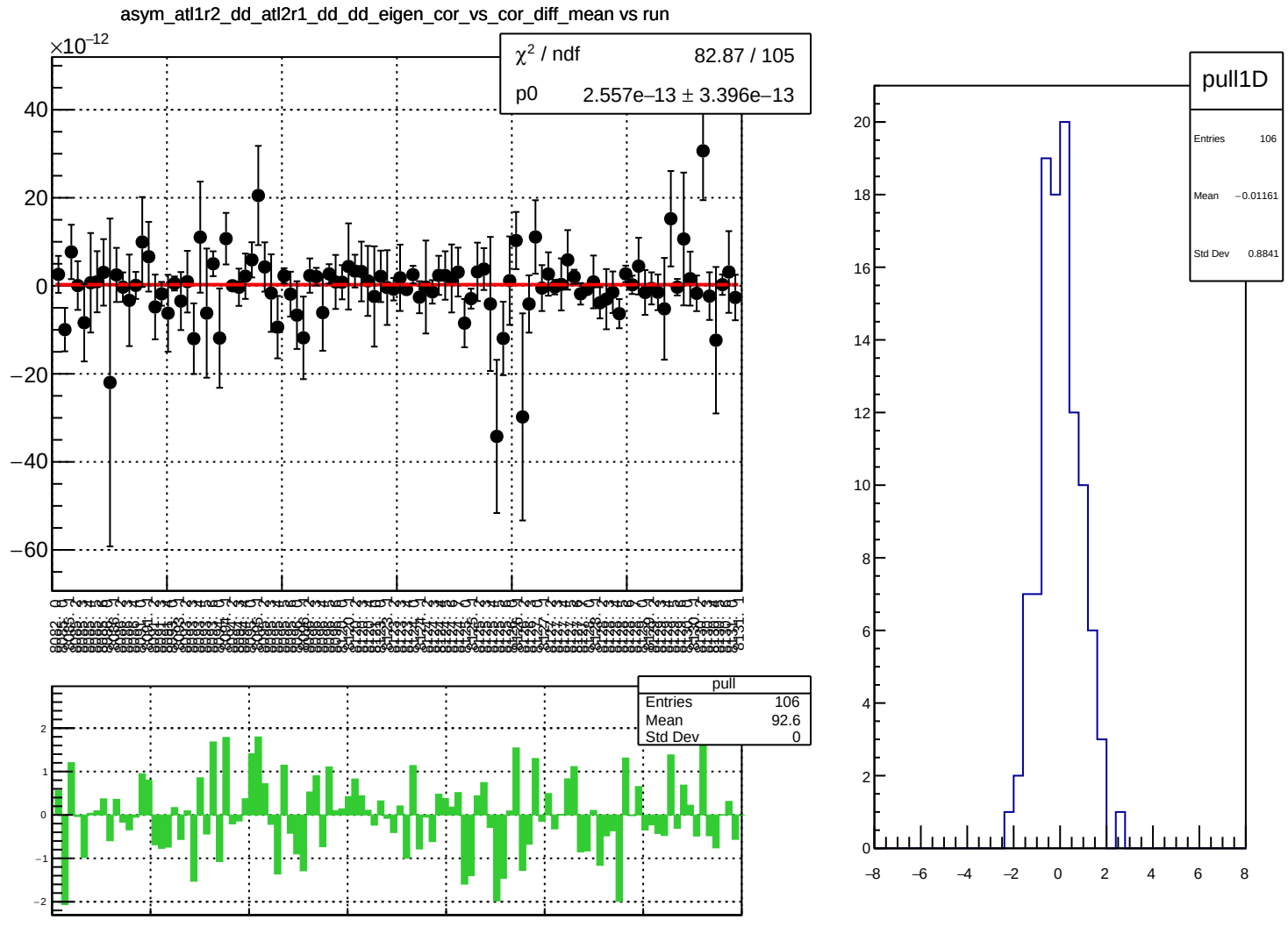

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 112.4 / 105
p0 −0.1748 ± 0.1524
pull
Entries 106
Mean 699.4
Std Dev 0

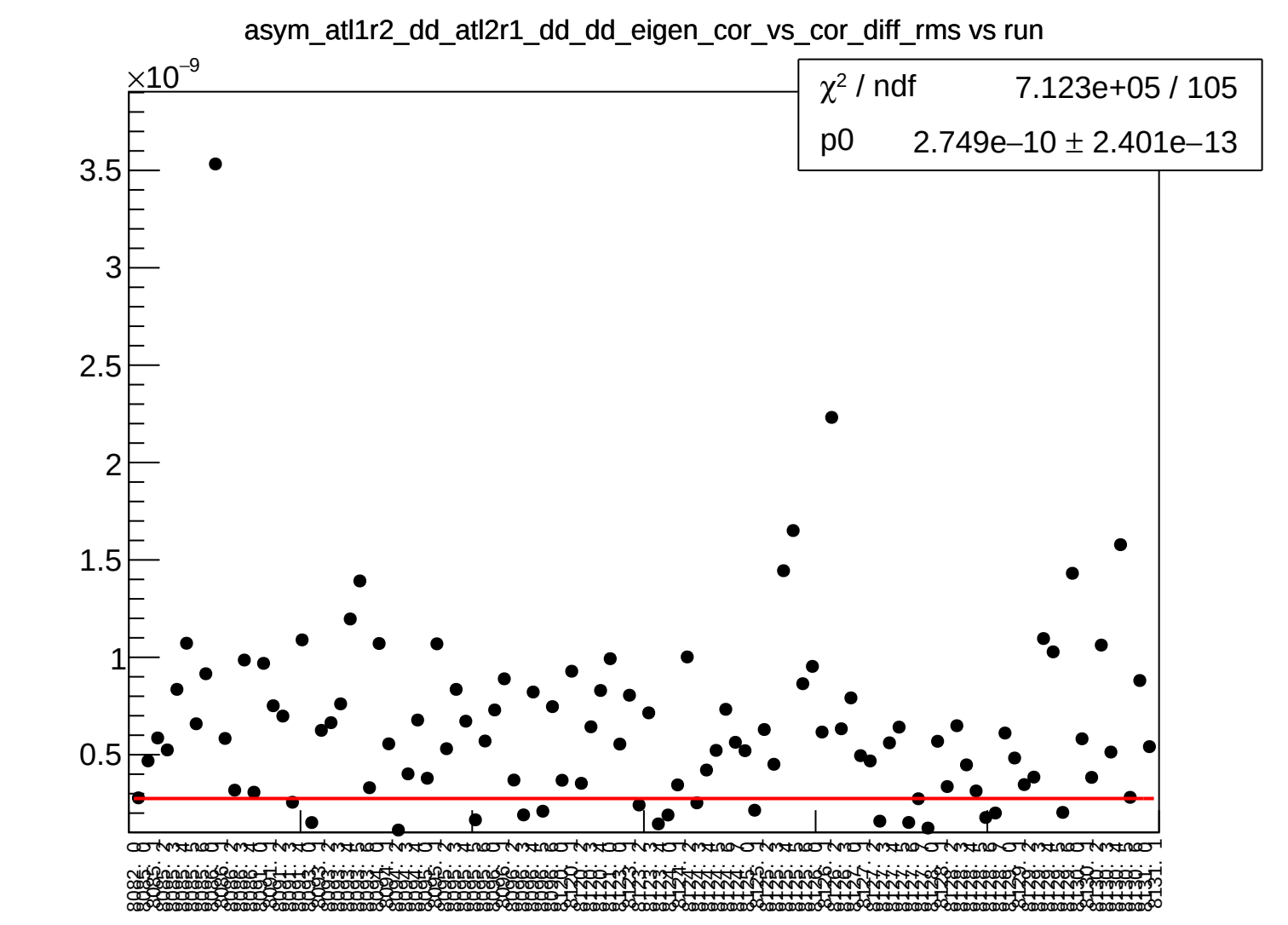

pull1D
Entries 106
Mean 0.005328
Std Dev 1.03

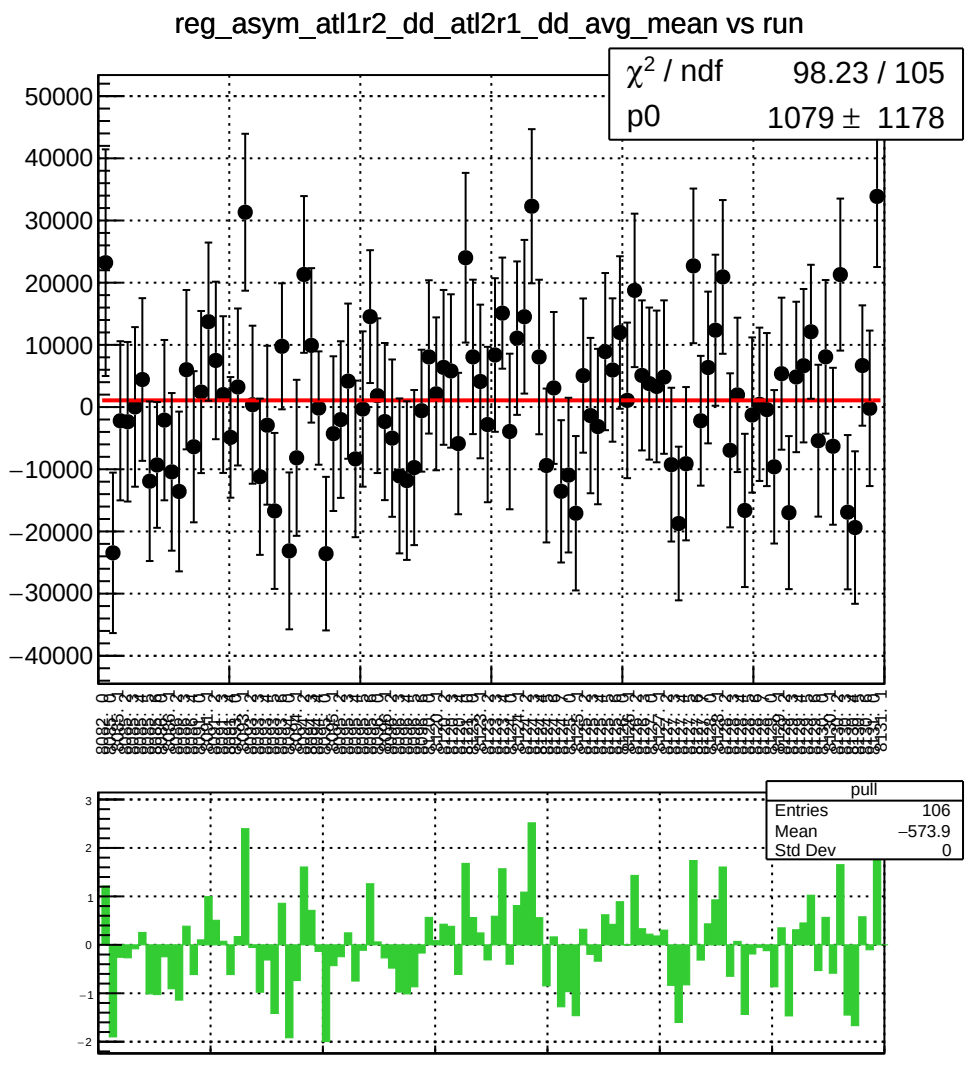

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.046e+04 / 105
p0 152.1 ± 0.1077
1200
1000
800
600
400
200

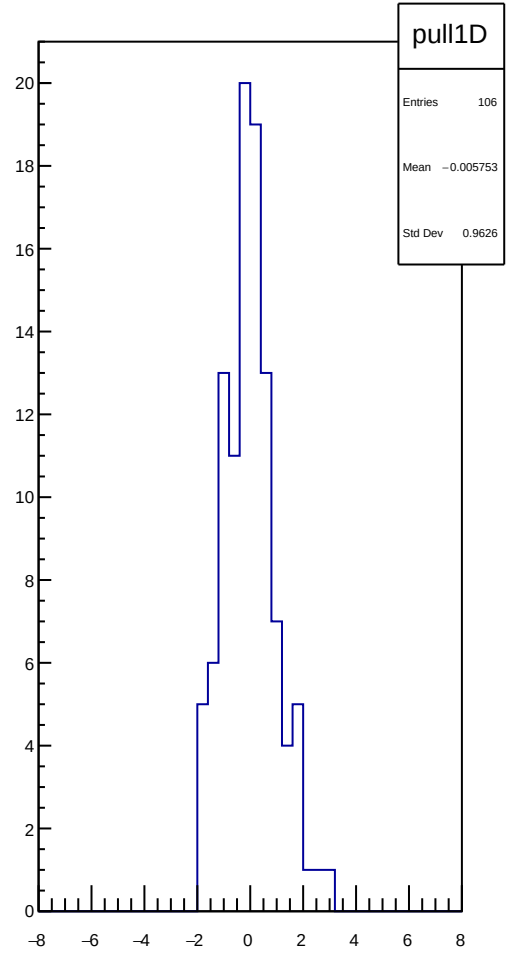

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 112.4 / 105
p0 −0.1748 ± 0.1524
pull
Entries 106
Mean 699.4
Std Dev 0
pull1D
Entries 106
Mean 0.005328
Std Dev 1.03

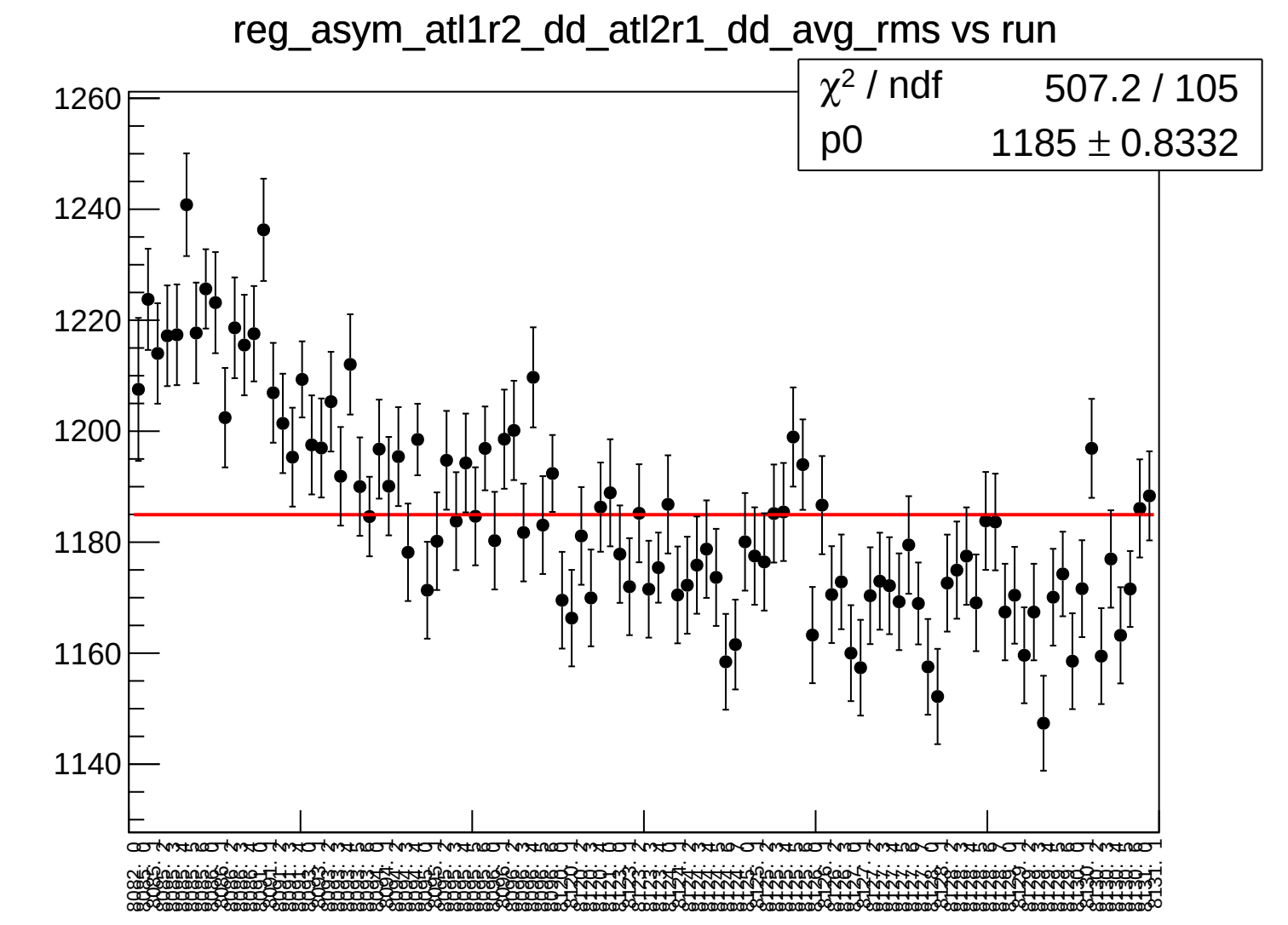

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.046e+04 / 105
p0 152.1 ± 0.1077
1200
1000
800
600
400
200

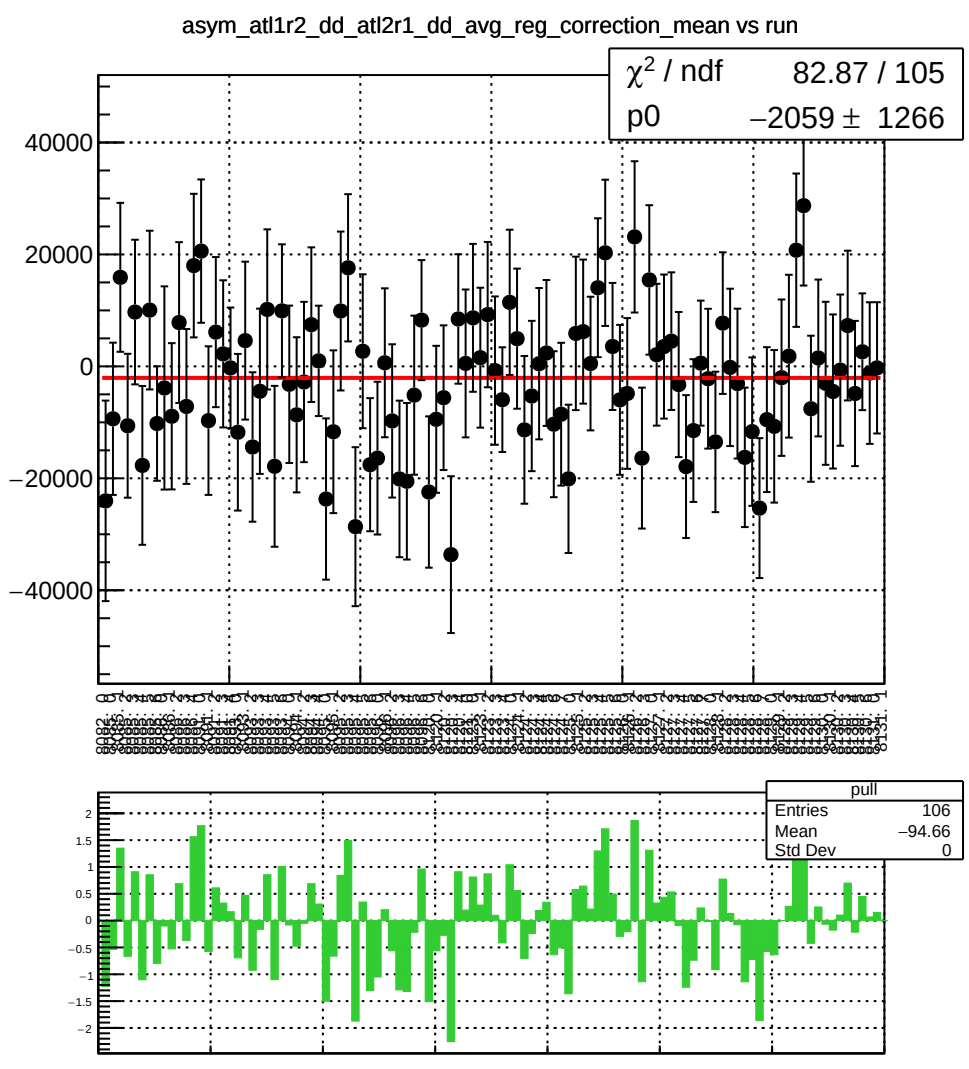

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 82.87 / 105
p0 2.557e−13 ± 3.396e−13
40
20
0
−20
−40
−60
pull
Entries 106
Mean 92.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 106
Mean −0.01161
Std Dev 0.8841
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

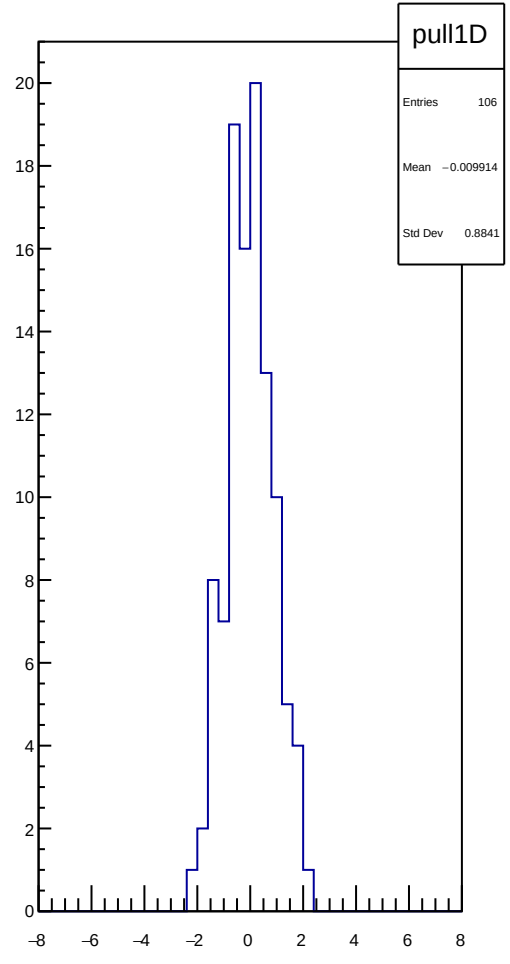

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.123e+05 / 105
p0 2.749e−10 ± 2.401e−13
3.5
3
2.5
2
1.5
1
0.5

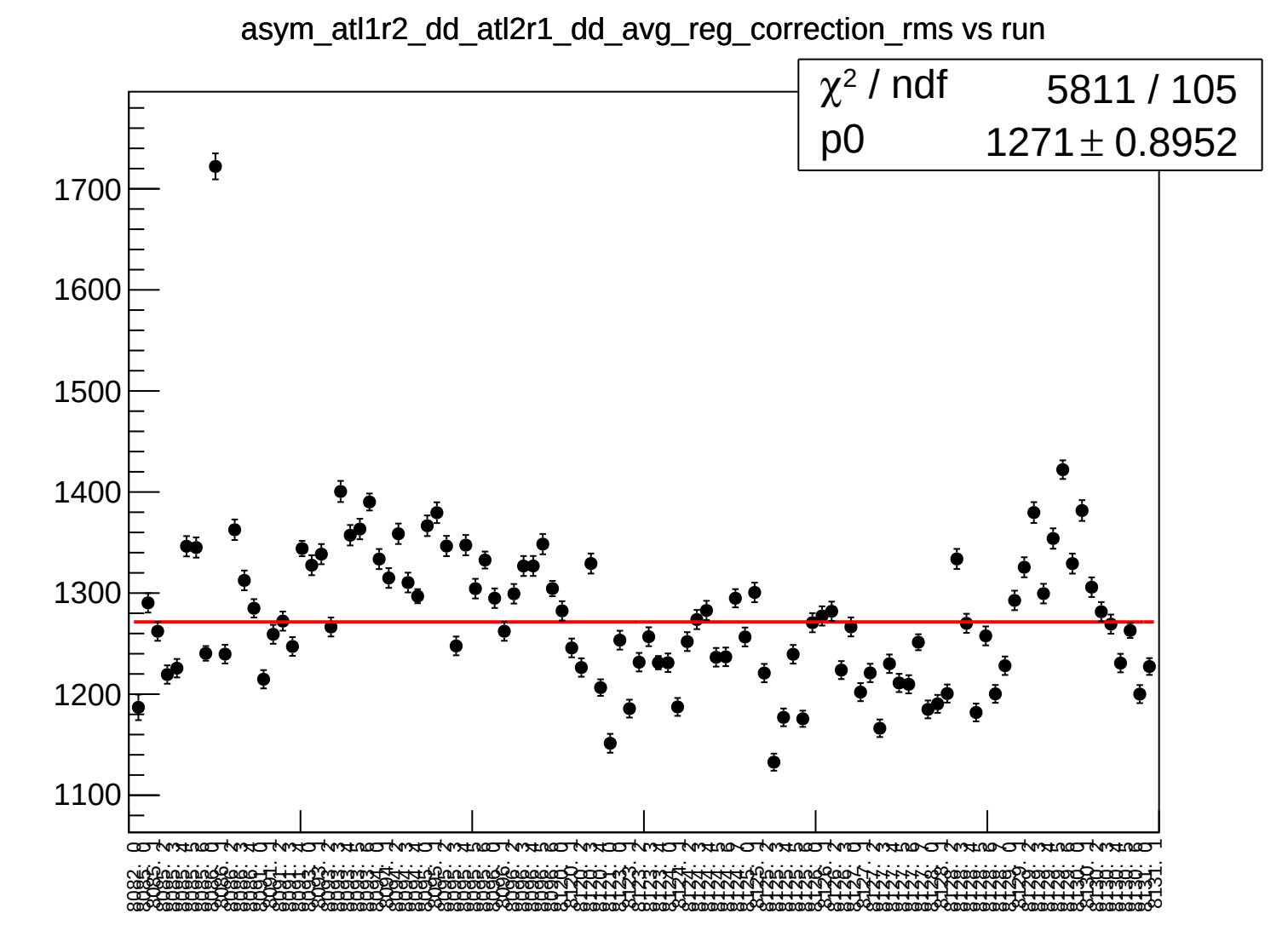

reg_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 98.23 / 105
p0 1079 ± 1178
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 106
Mean −573.9
Std Dev 0
3
2
1
0
−1
−2

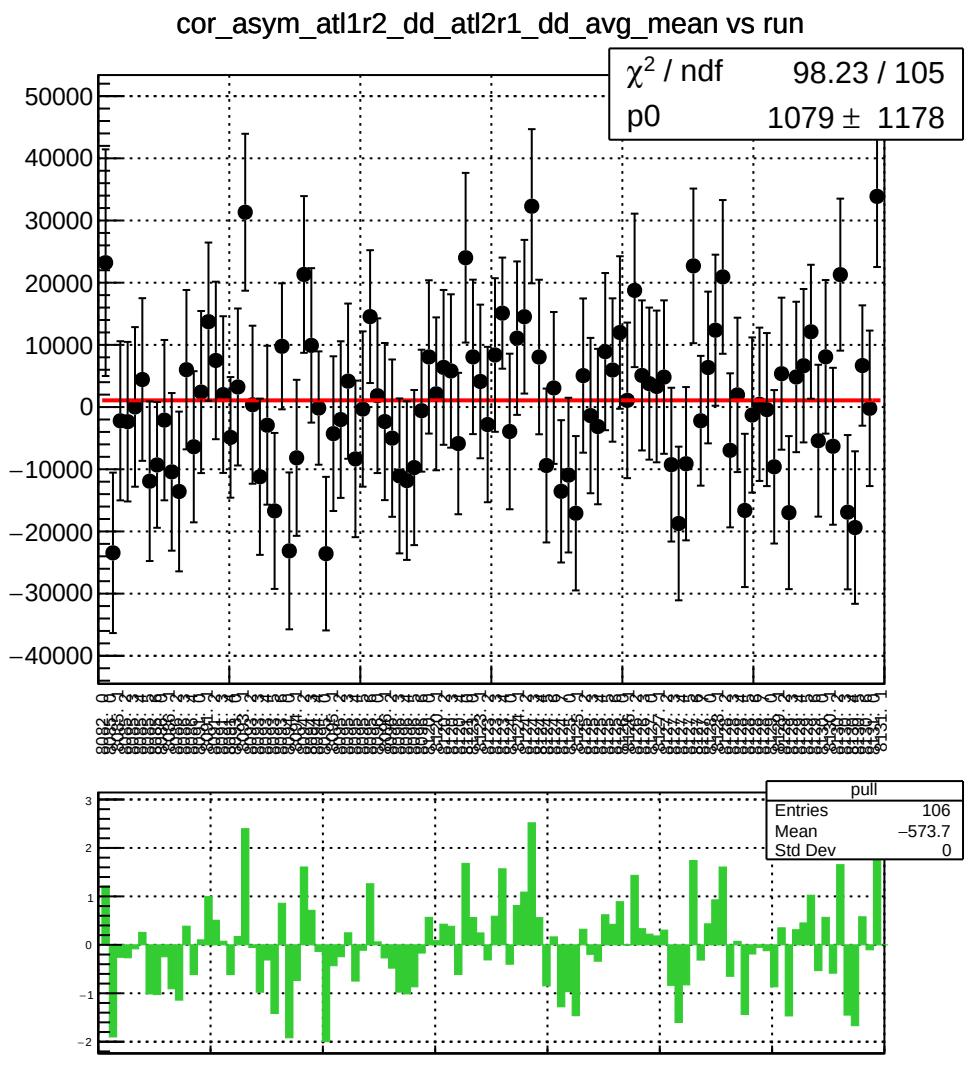

pull1D
Entries 106
Mean −0.005753
Std Dev 0.9626
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

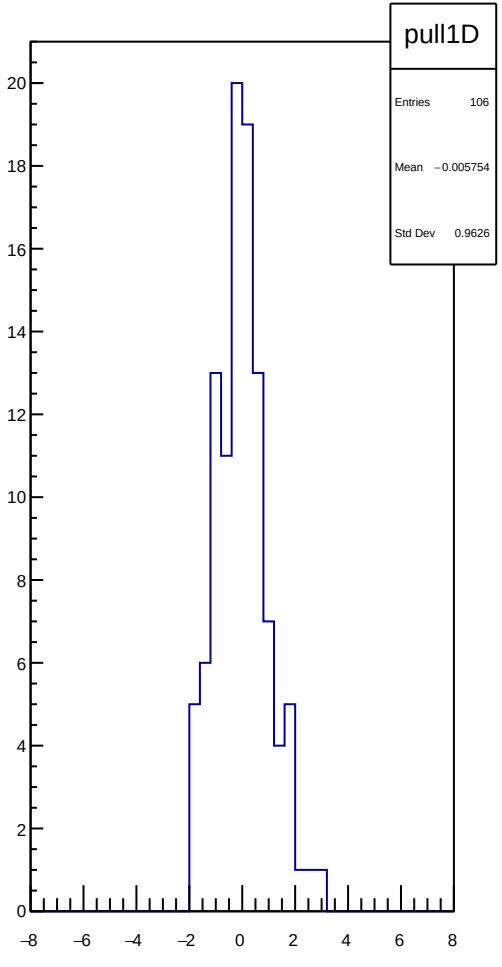

reg_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 507.2 / 105
p0 1185 ± 0.8332
1260
1240
1220
1200
1180
1160
1140

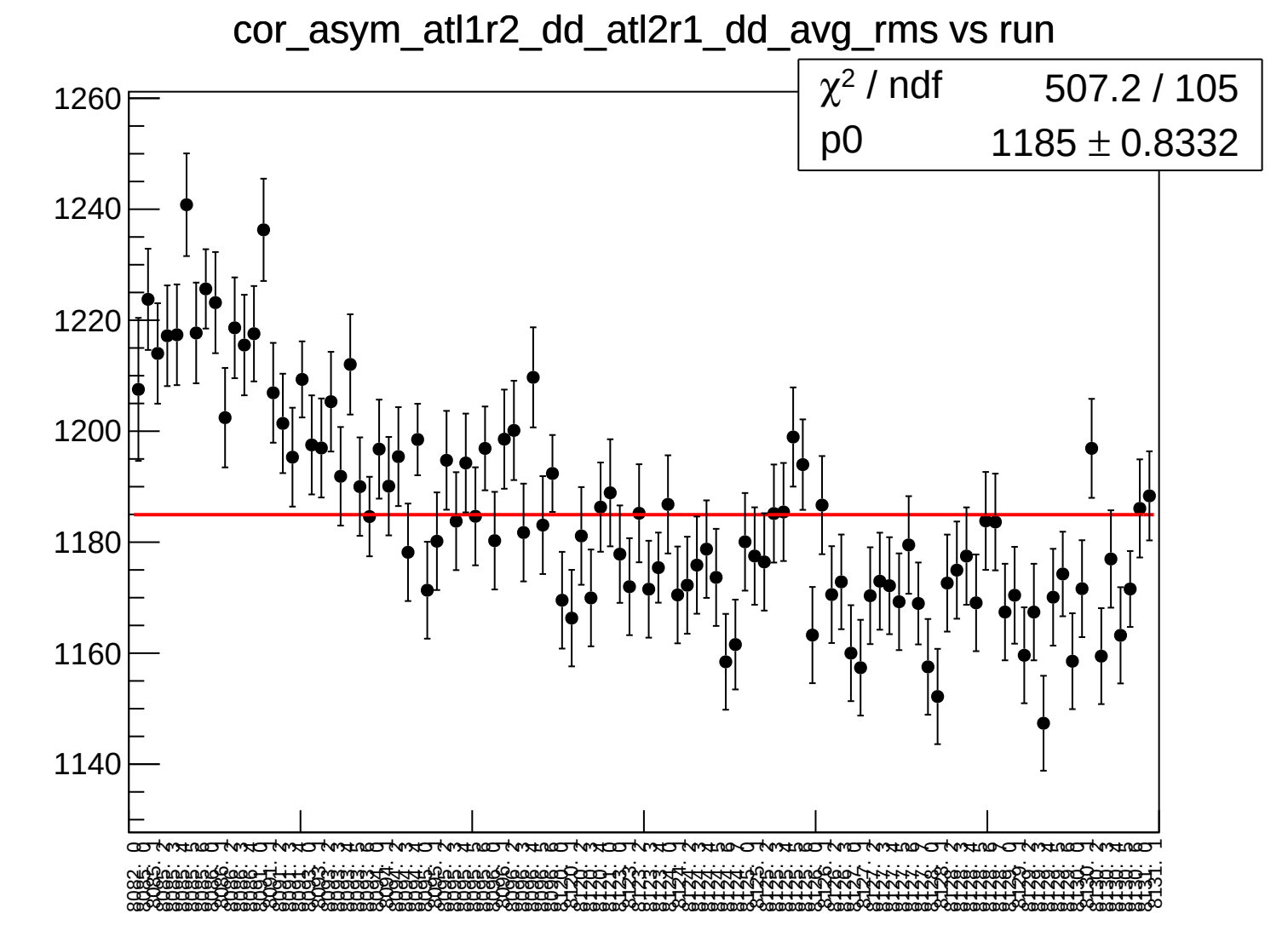

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_mean vs run
χ² / ndf 82.87 / 105
p0 −2059 ± 1266
40000
20000
0
−20000
−40000
pull
Entries 106
Mean −94.66
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

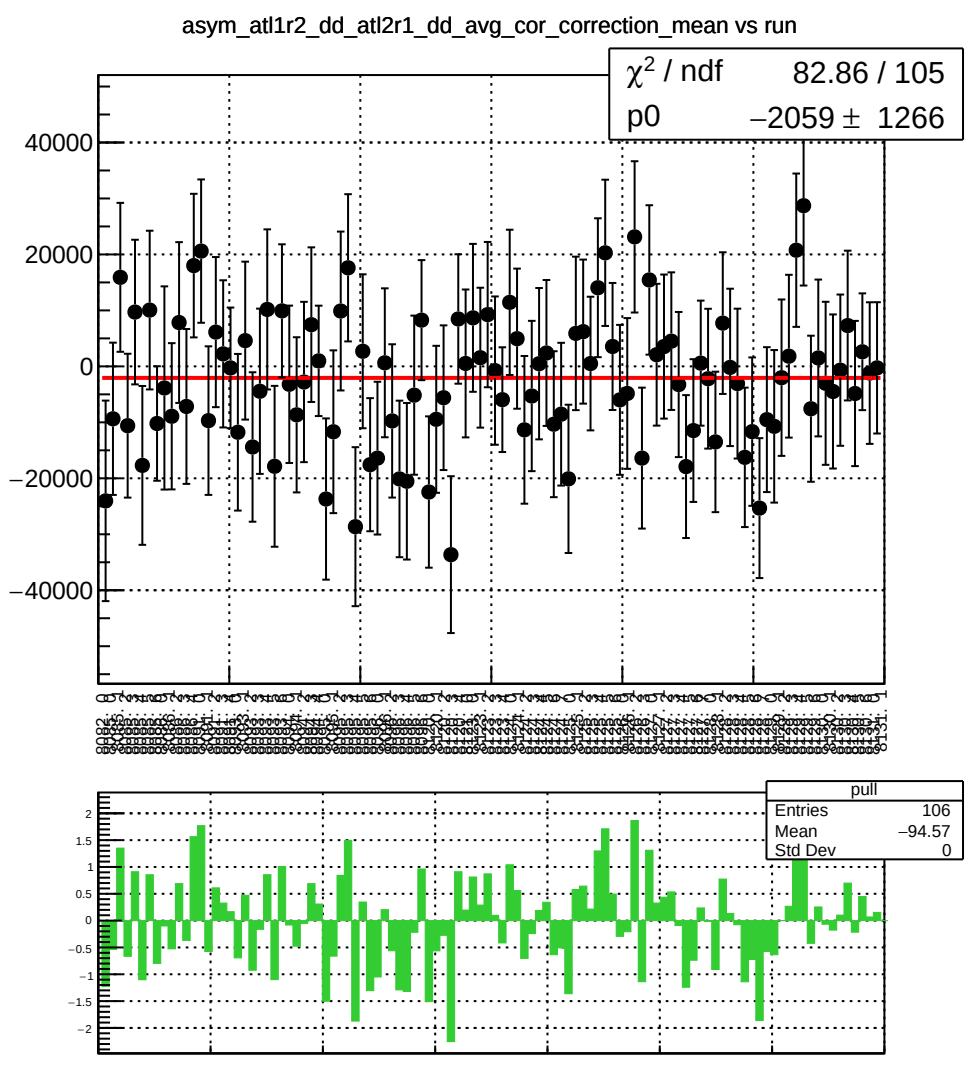

pull1D
Entries 106
Mean −0.009914
Std Dev 0.8841
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

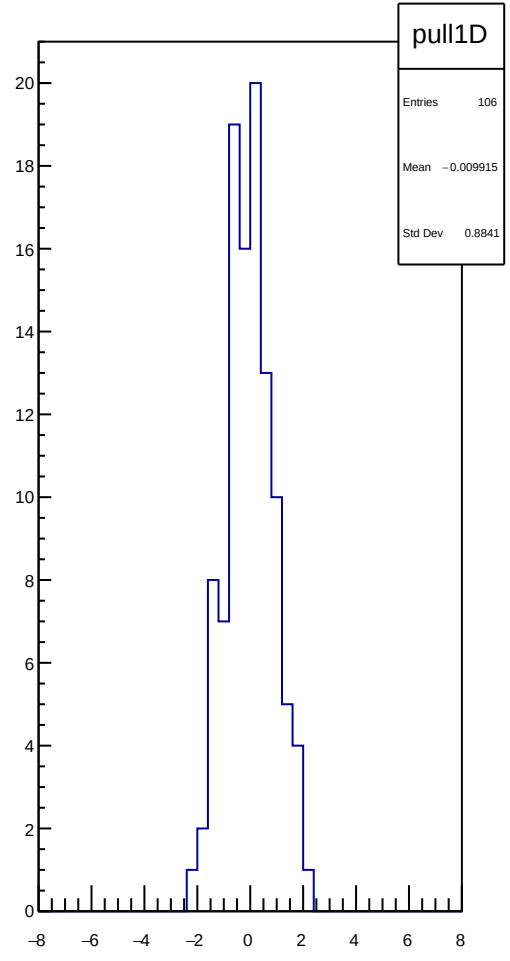

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_rms vs run
χ² / ndf 5811 / 105
p0 1271 ± 0.8952
1700
1600
1500
1400
1300
1200
1100

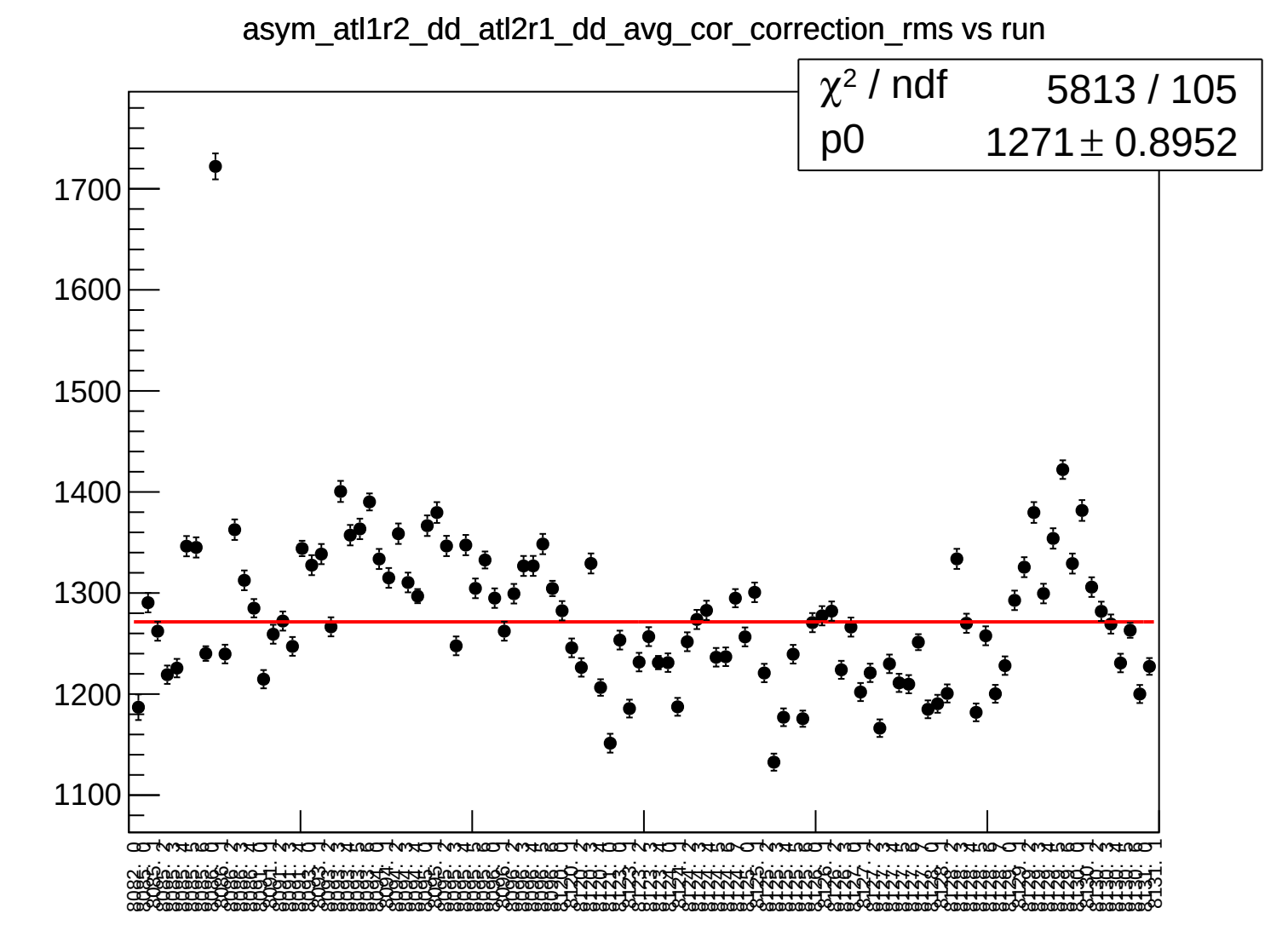

cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 98.23 / 105
p0 1079 ± 1178
pull
Entries 106
Mean −573.7
Std Dev 0

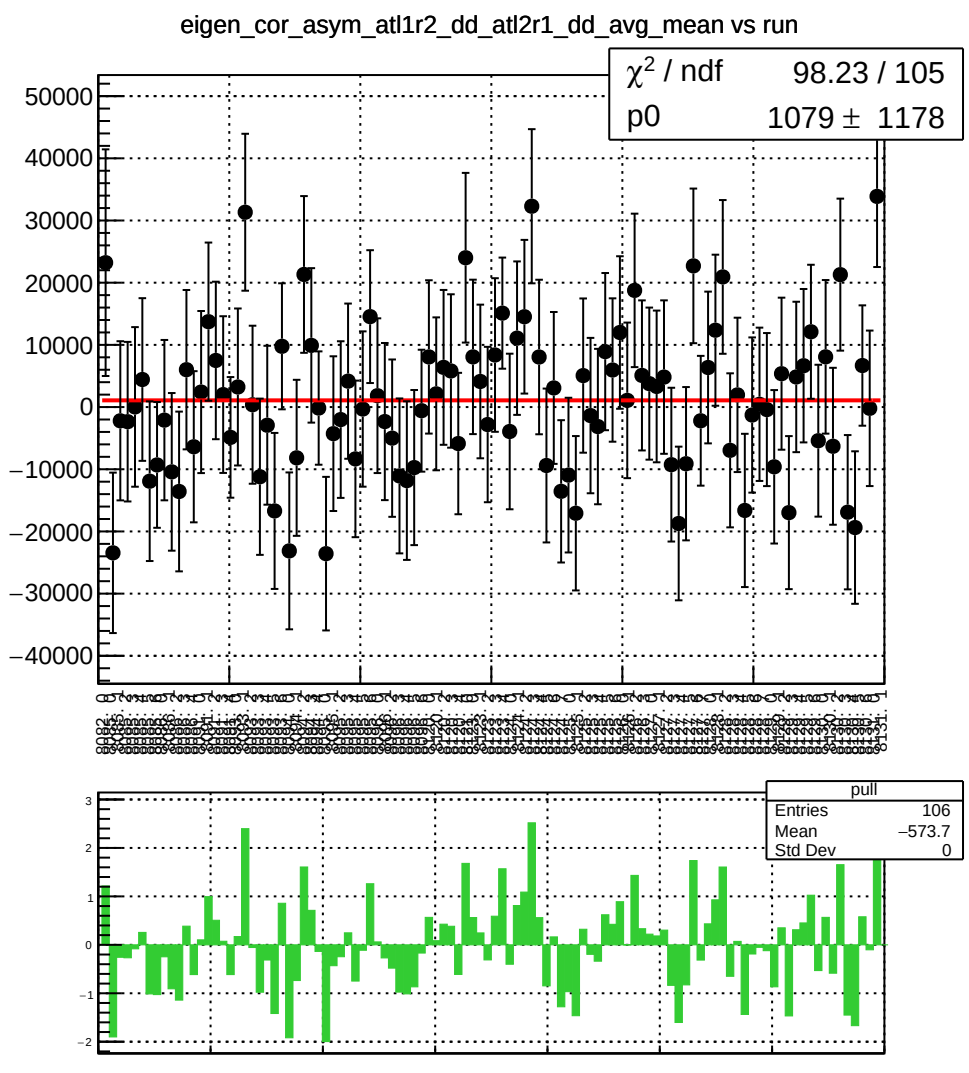

pull1D
Entries 106
Mean −0.005754
Std Dev 0.9626

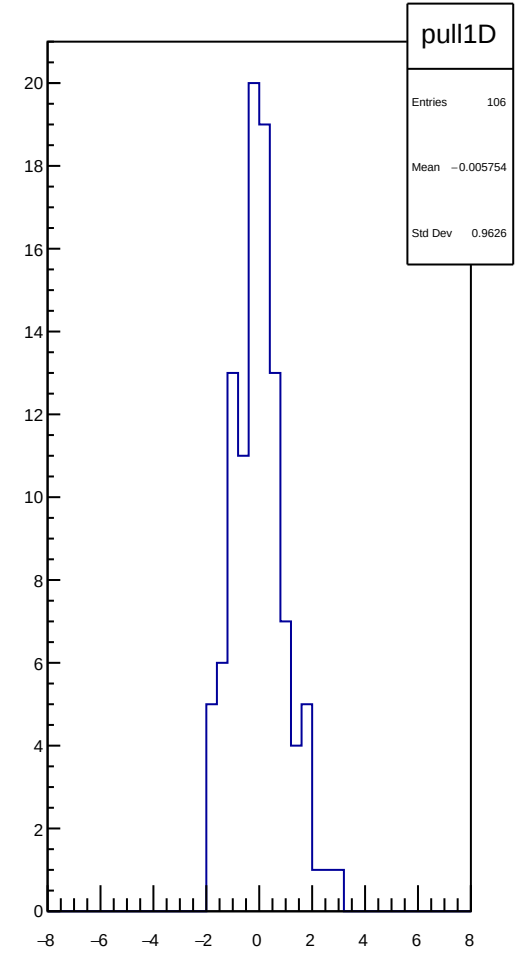

cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 507.2 / 105
p0 1185 ± 0.8332
1260
1240
1220
1200
1180
1160
1140

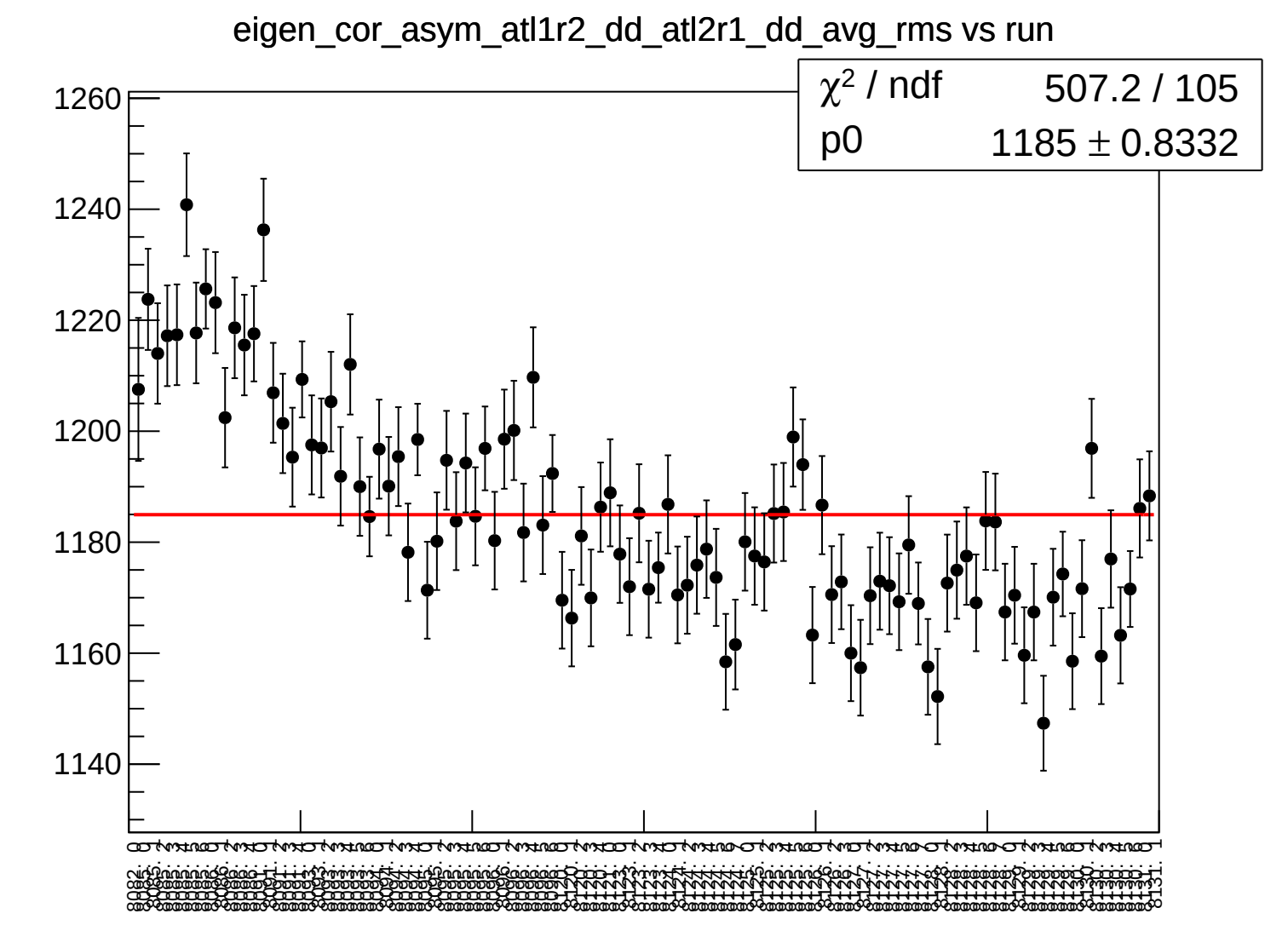

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_mean vs run
χ² / ndf 82.86 / 105
p0 −2059 ± 1266
40000
20000
0
−20000
−40000
pull
Entries 106
Mean −94.57
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

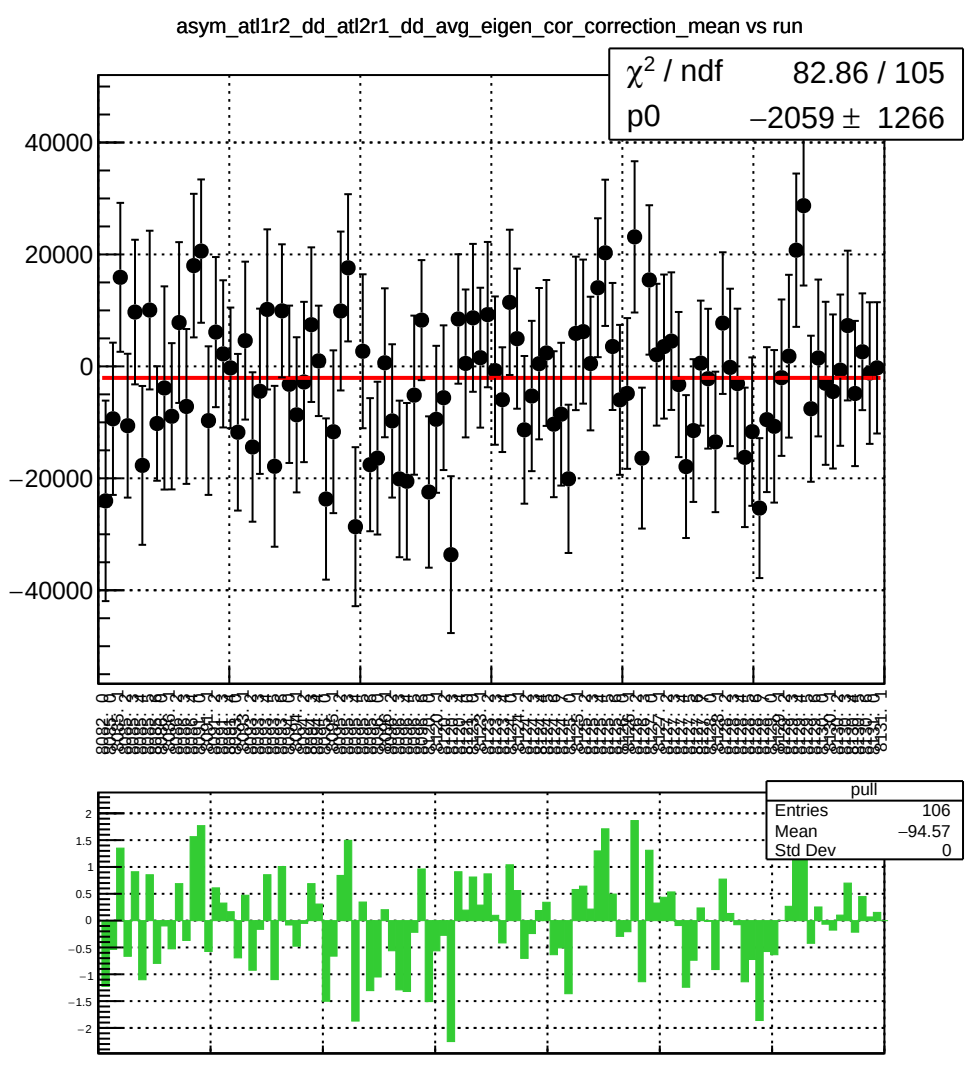

pull1D
Entries 106
Mean −0.009915
Std Dev 0.8841
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

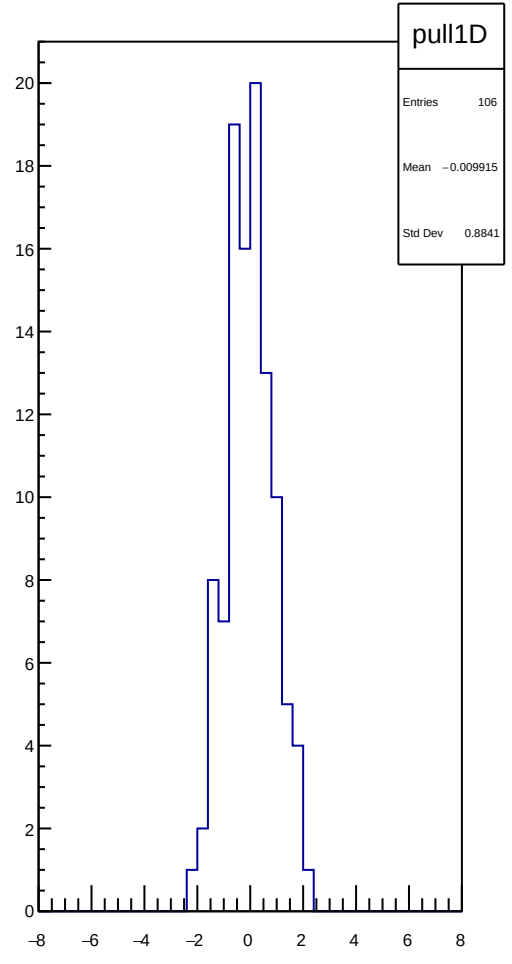

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_rms vs run
χ² / ndf 5813 / 105
p0 1271 ± 0.8952
1700
1600
1500
1400
1300
1200
1100

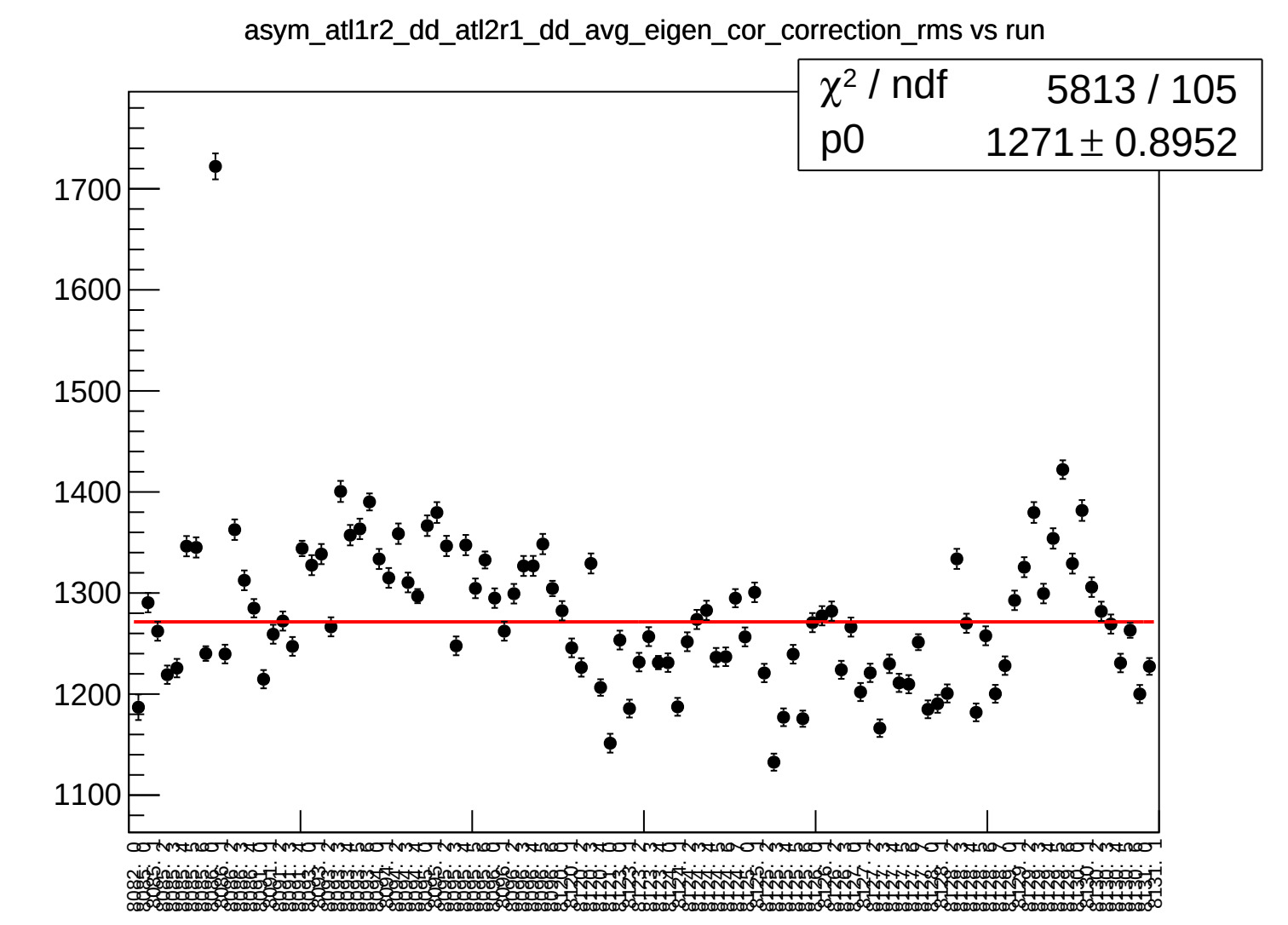

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 98.23 / 105
p0 1079 ± 1178
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 106
Mean −573.7
Std Dev 0
3
2
1
0
−1
−2

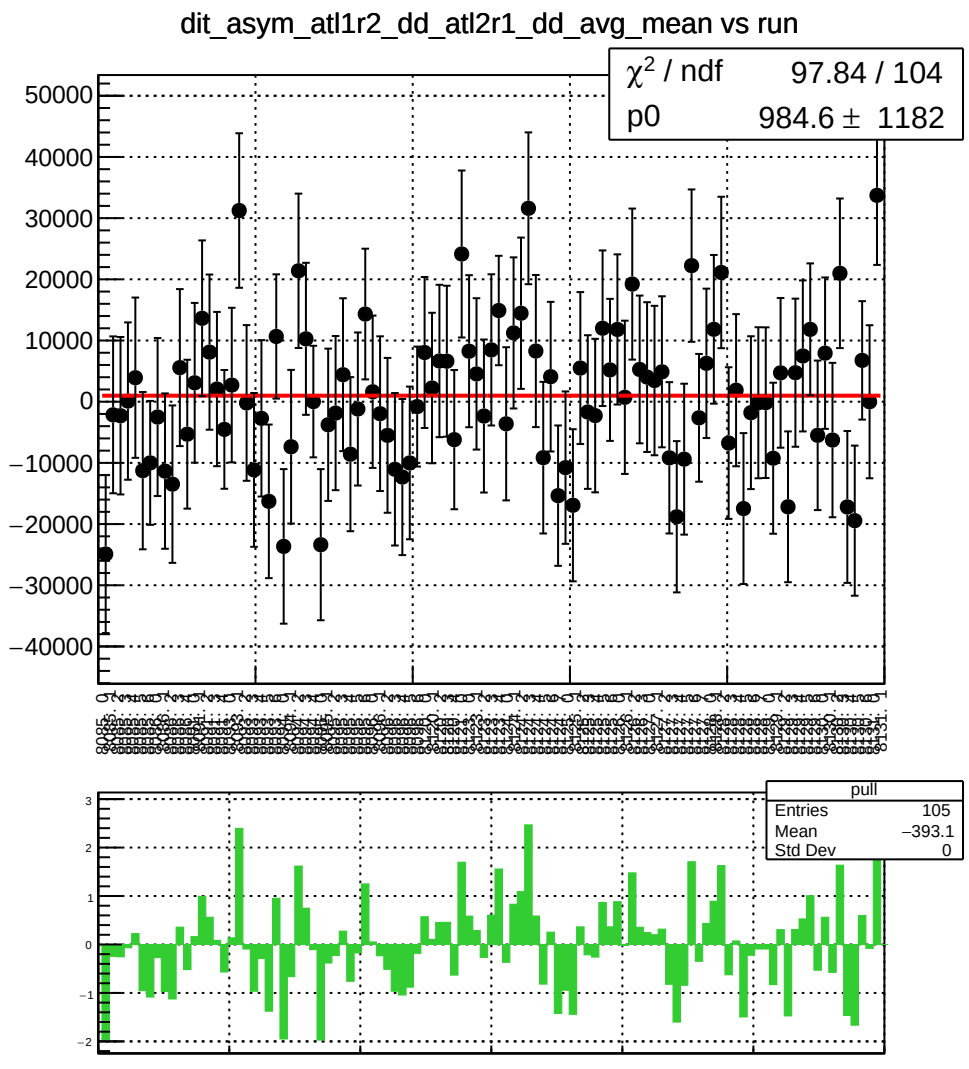

pull1D
Entries 106
Mean −0.005754
Std Dev 0.9626
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

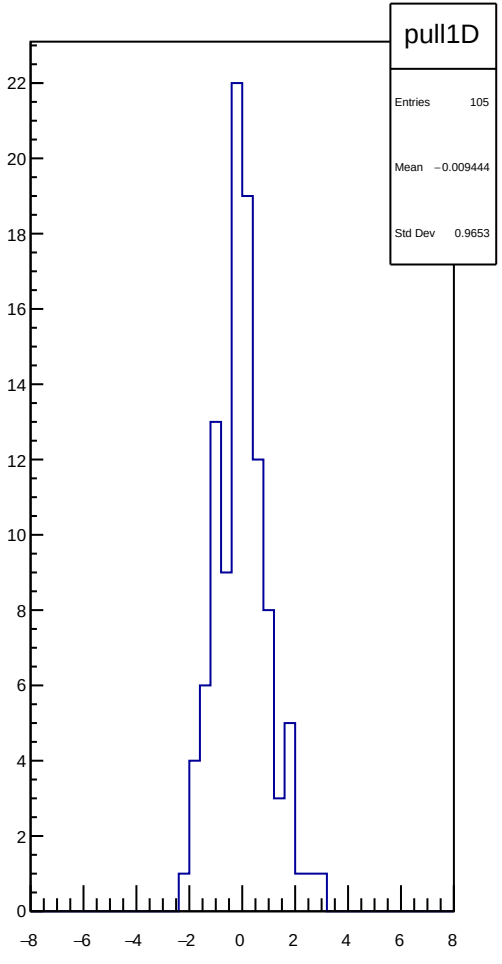

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 507.2 / 105
p0 1185 ± 0.8332
1260
1240
1220
1200
1180
1160
1140

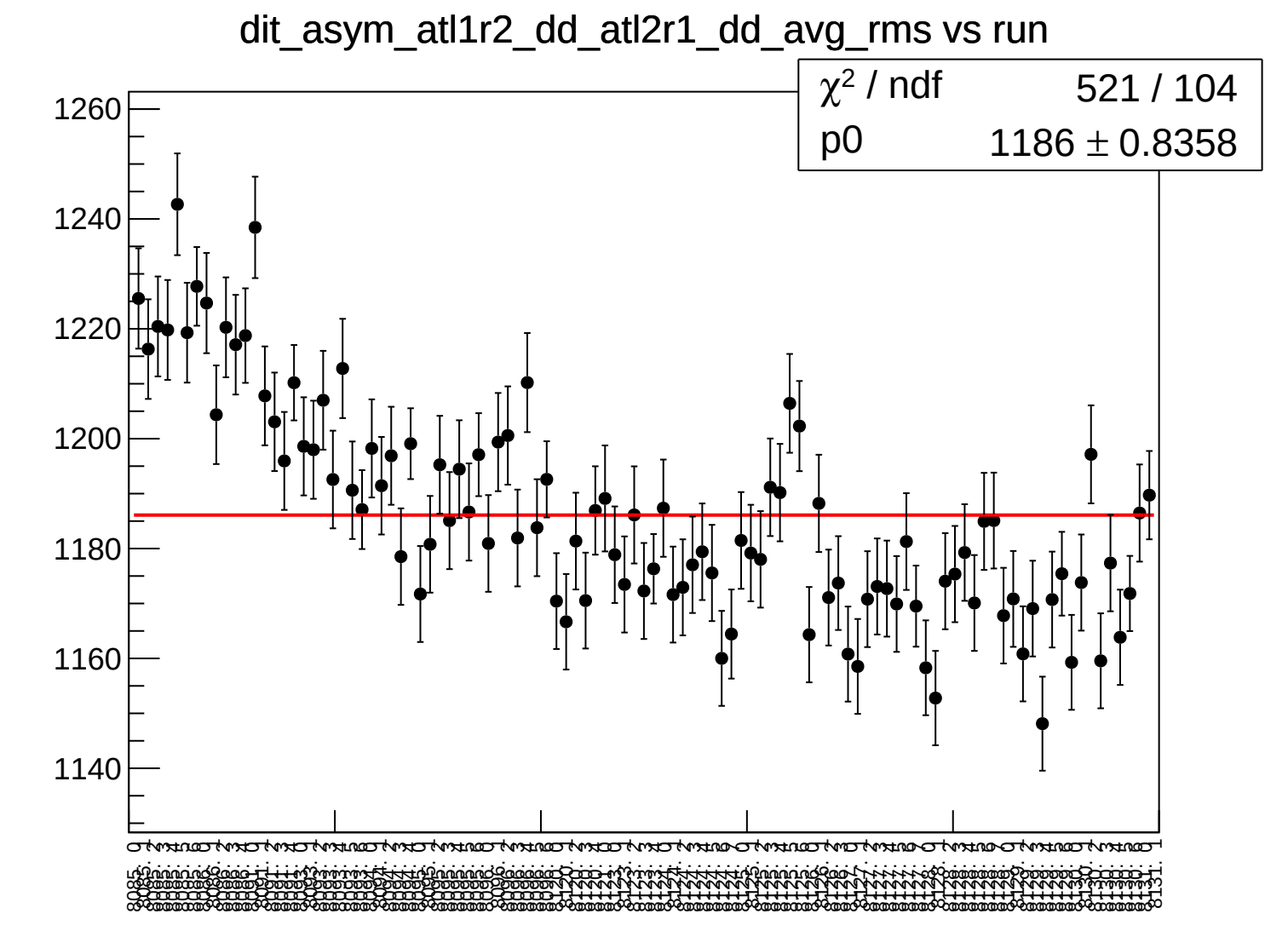

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 82.86 / 105
p0 −2059 ± 1266
40000
20000
0
−20000
−40000
pull
Entries 106
Mean −94.57
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

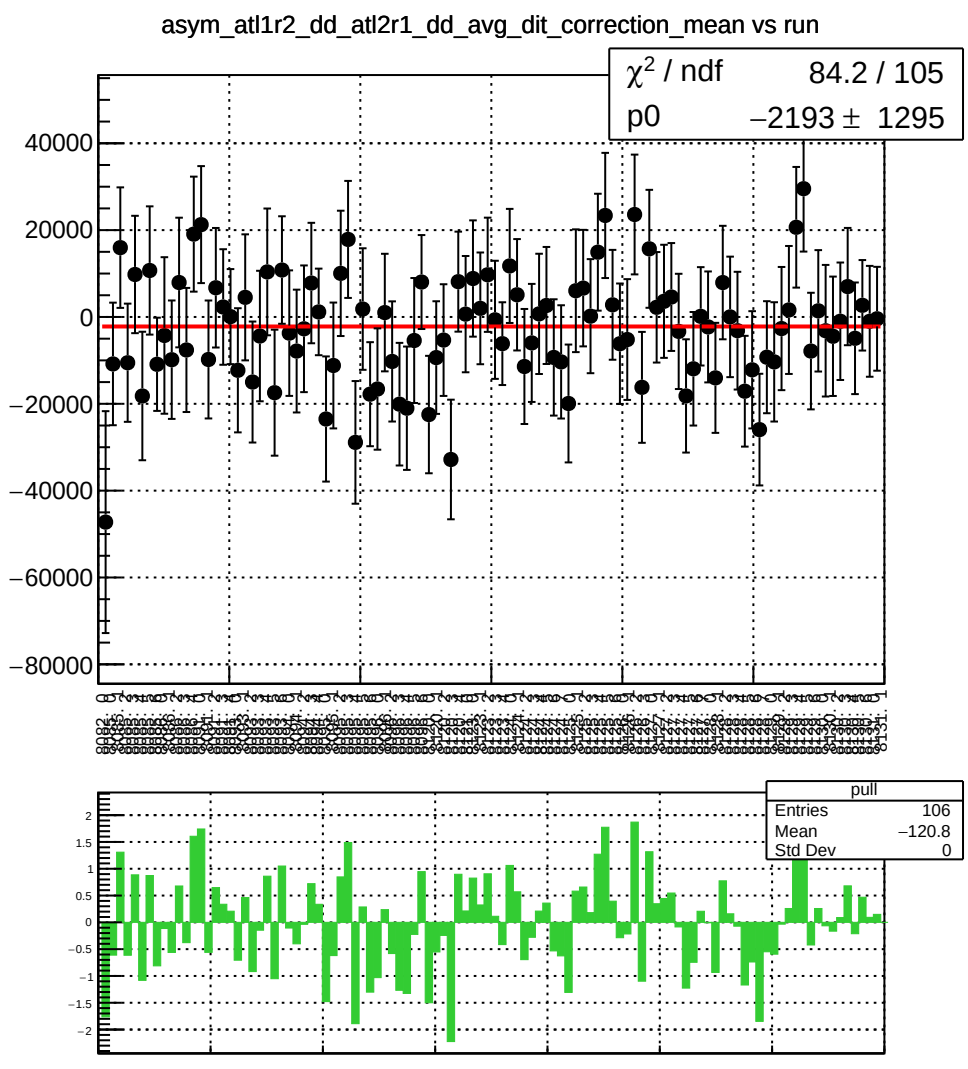

pull1D
Entries 106
Mean −0.009915
Std Dev 0.8841
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

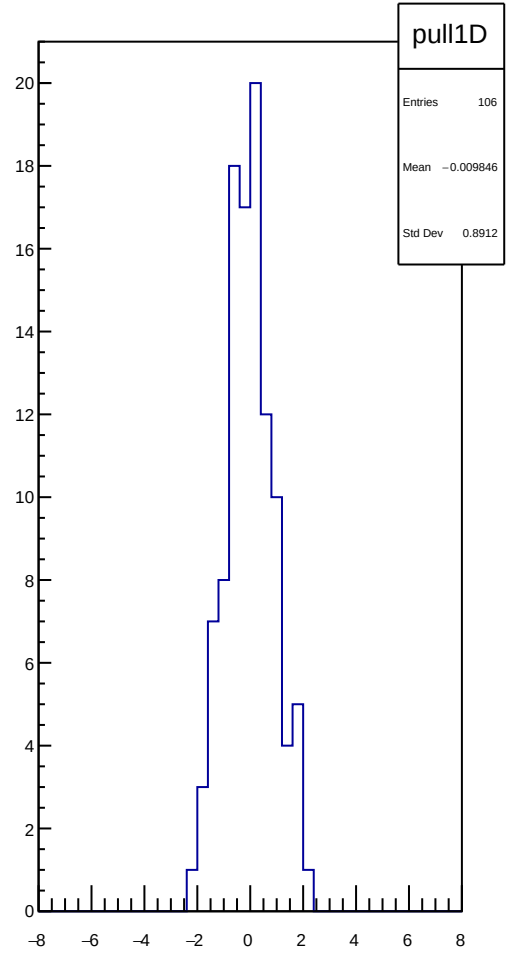

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 5813 / 105
p0 1271 ± 0.8952
1700
1600
1500
1400
1300
1200
1100

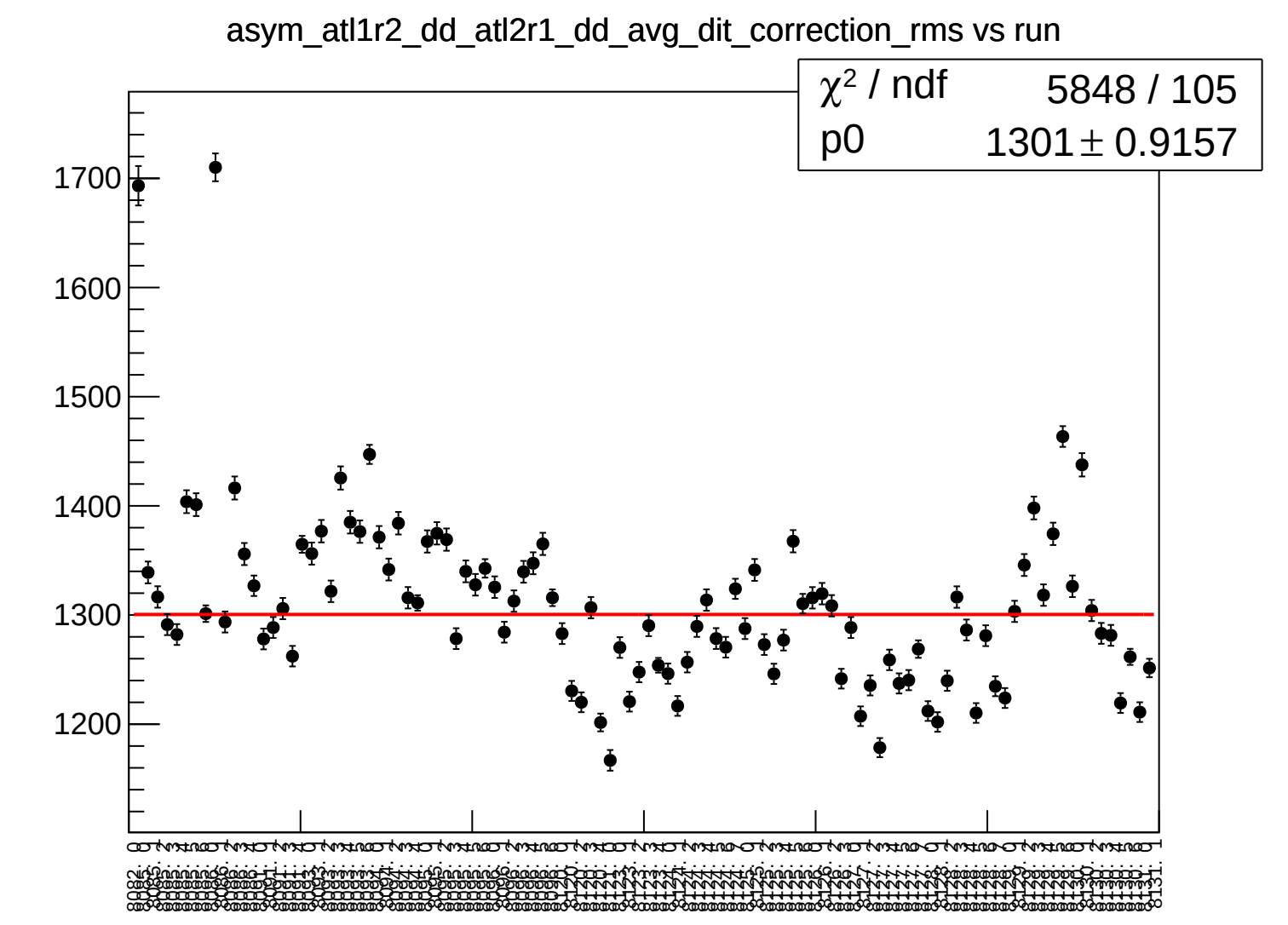

dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 97.84 / 104
p0 984.6 ± 1182
pull
Entries 105
Mean −393.1
Std Dev 0

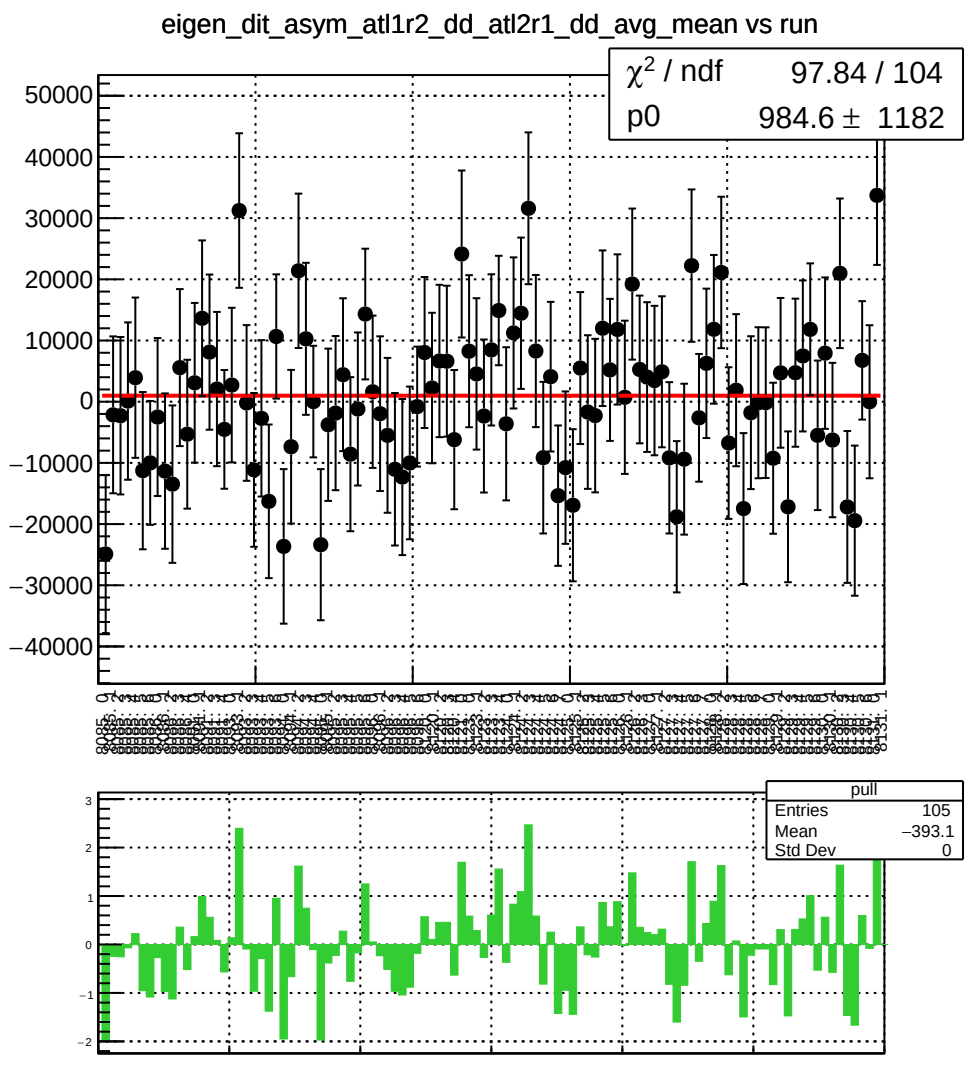

pull1D
Entries 105
Mean −0.009444
Std Dev 0.9653

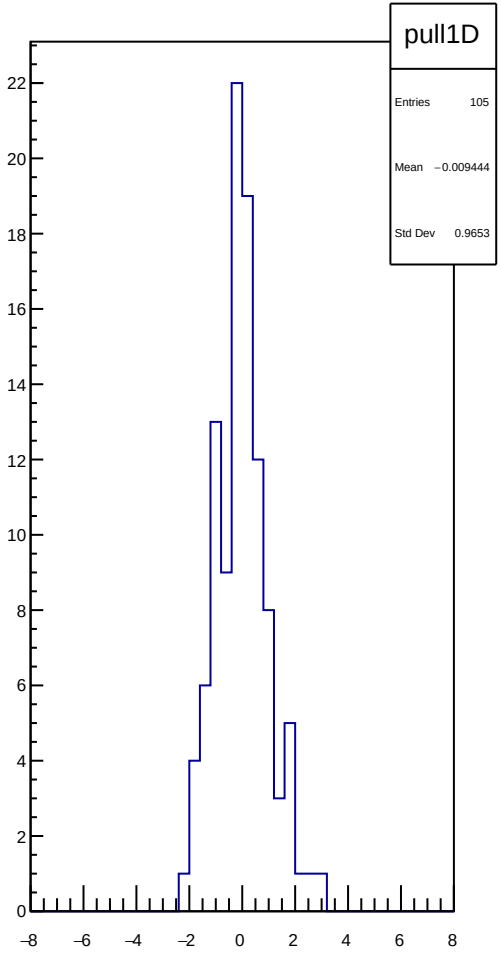

dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 521 / 104
p0 1186 ± 0.8358
1260
1240
1220
1200
1180
1160
1140

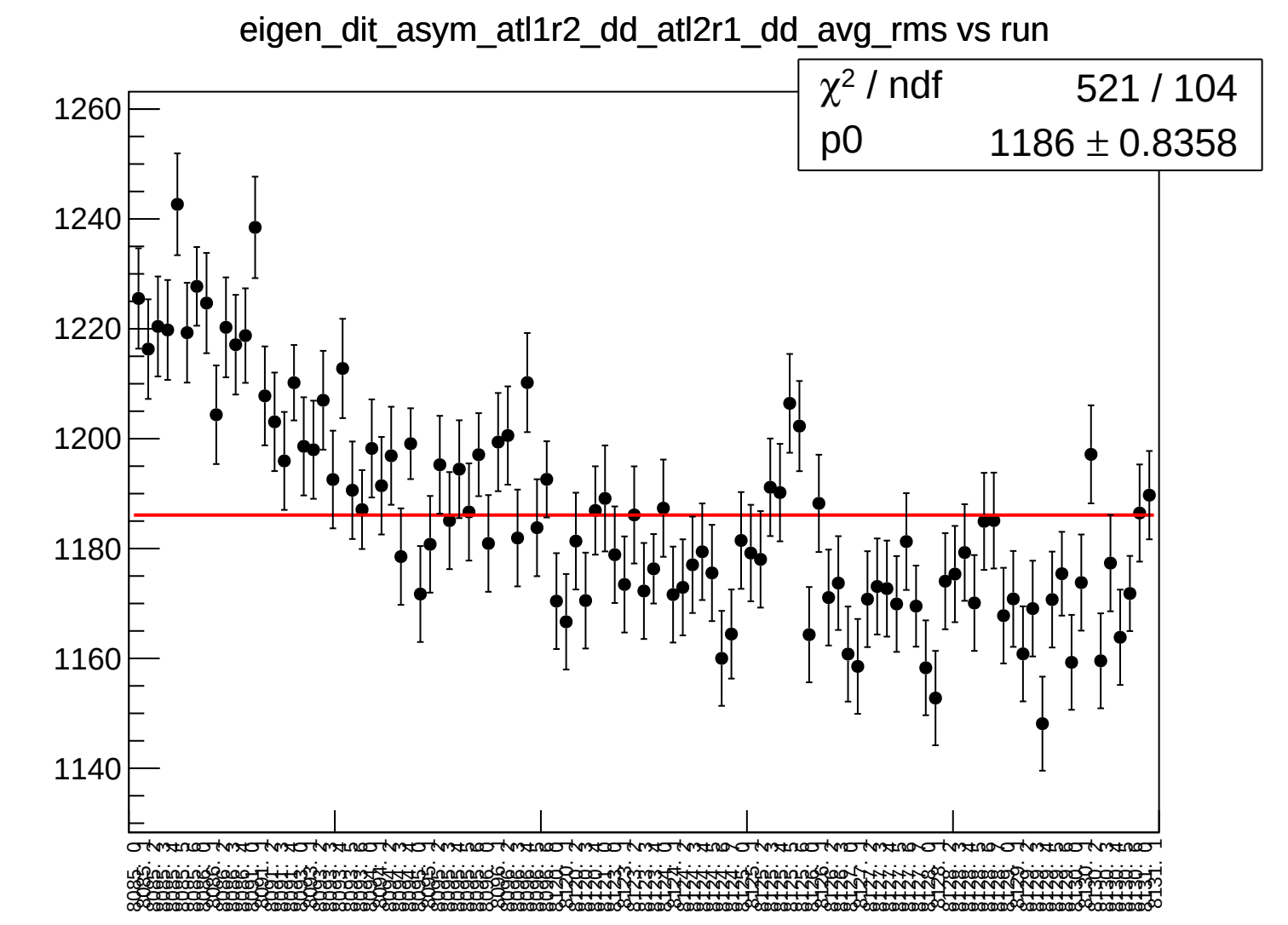

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_mean vs run
χ² / ndf 84.2 / 105
p0 −2193 ± 1295
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 106
Mean −120.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

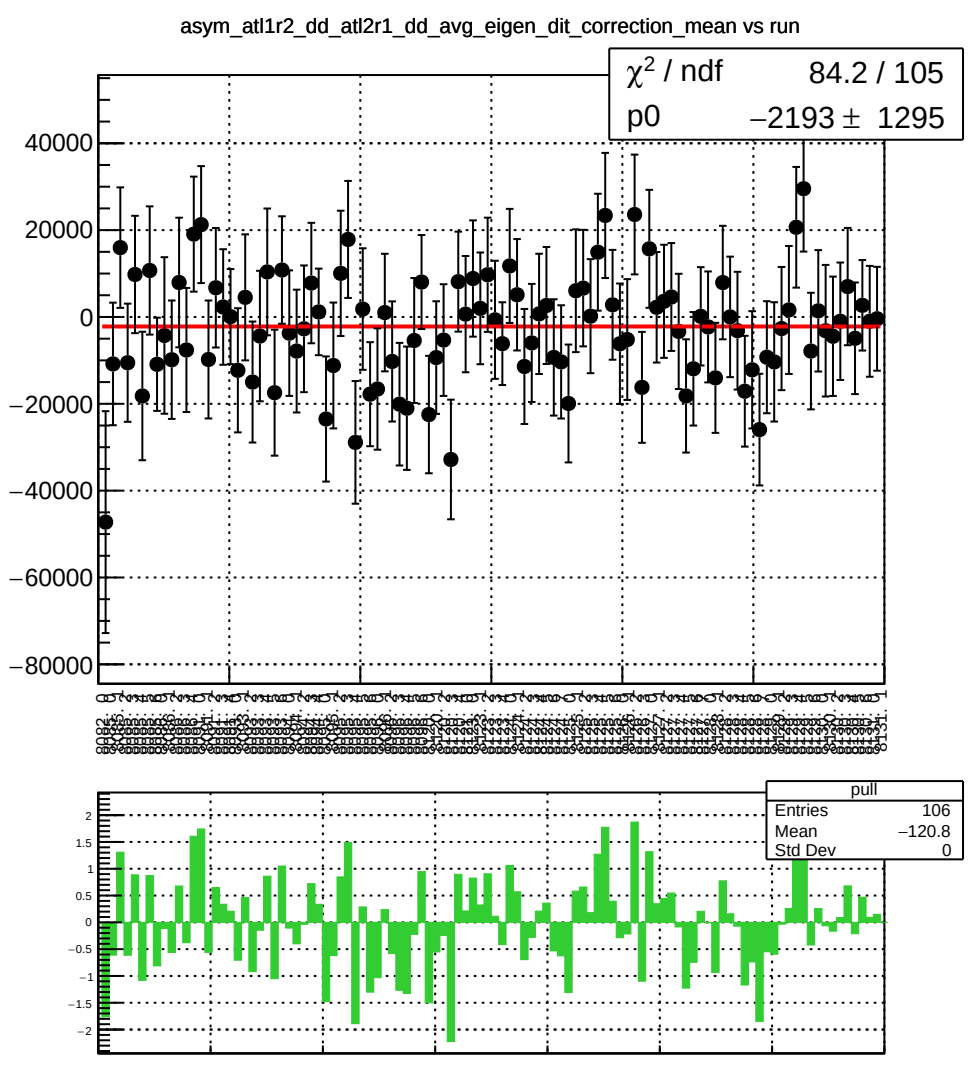

pull1D
Entries 106
Mean −0.009846
Std Dev 0.8912
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

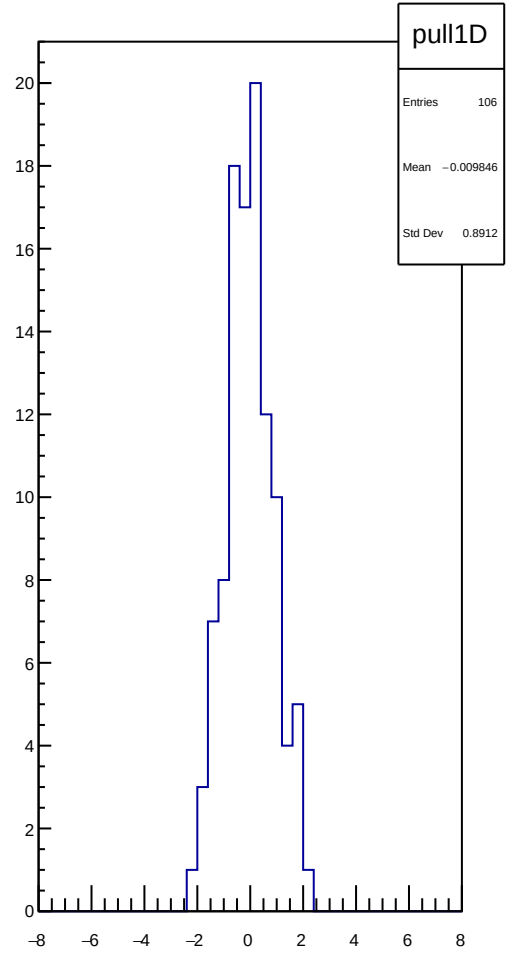

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_rms vs run
χ² / ndf 5848 / 105
p0 1301 ± 0.9157
1700
1600
1500
1400
1300
1200

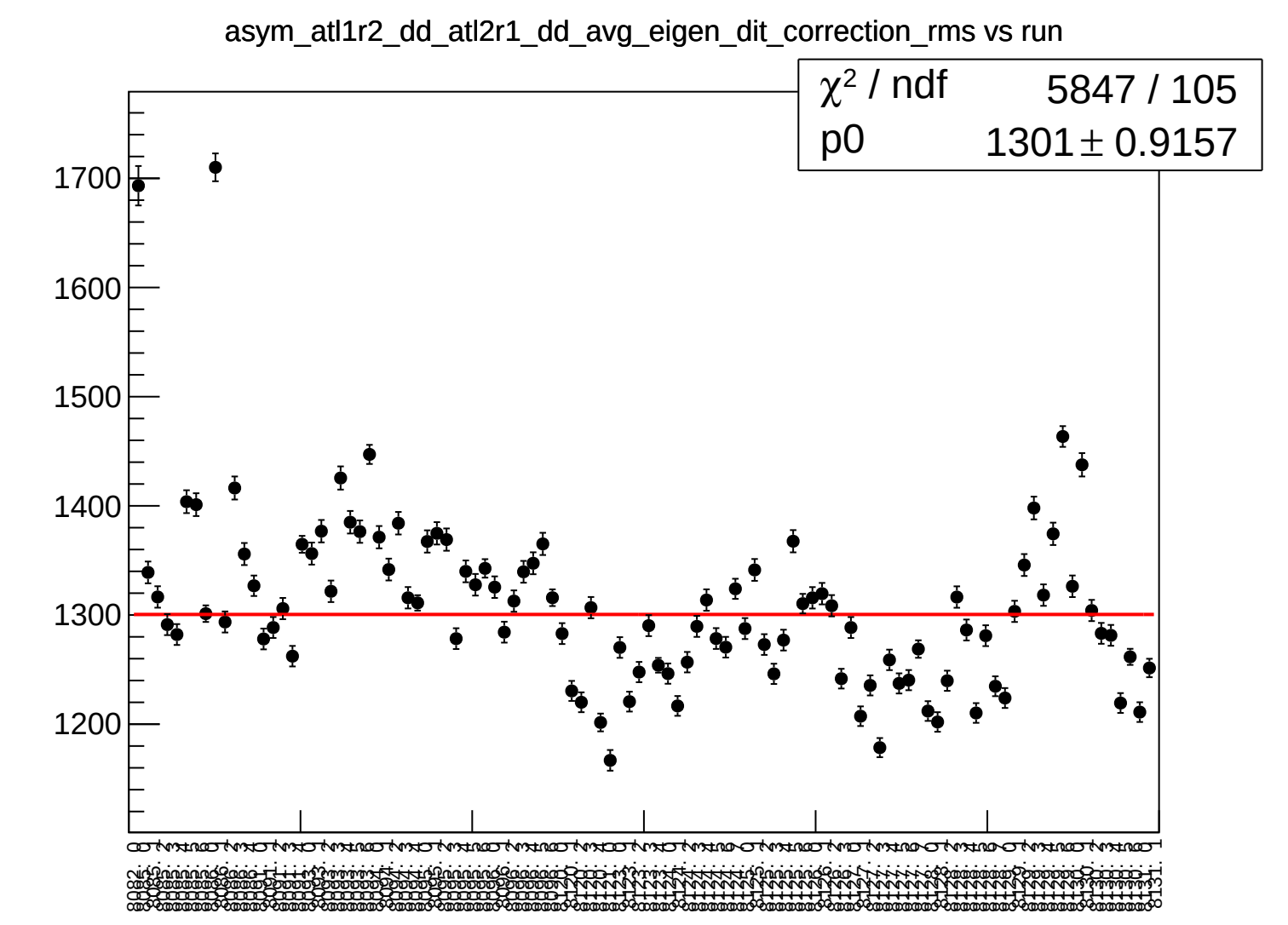

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 97.84 / 104
p0 984.6 ± 1182
pull
Entries 105
Mean −393.1
Std Dev 0

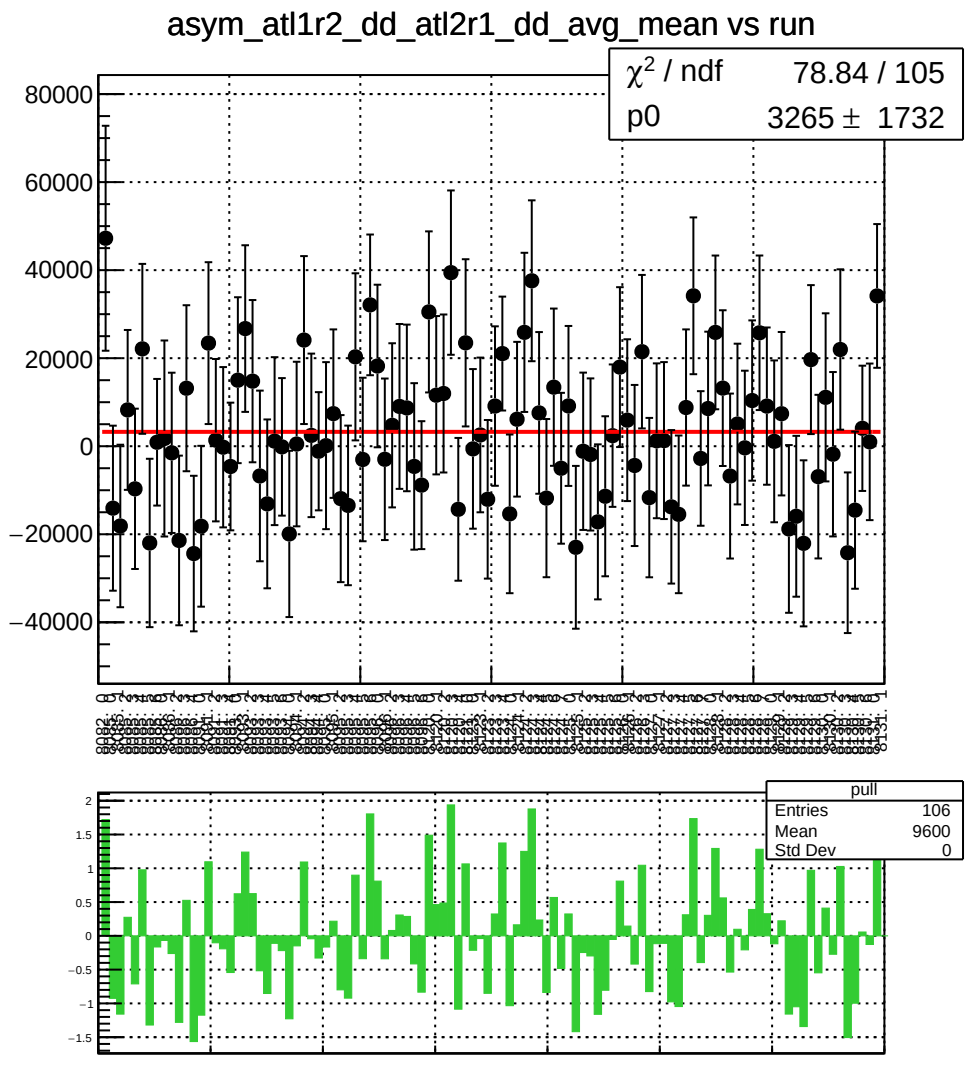

pull1D
Entries 105
Mean −0.009444
Std Dev 0.9653

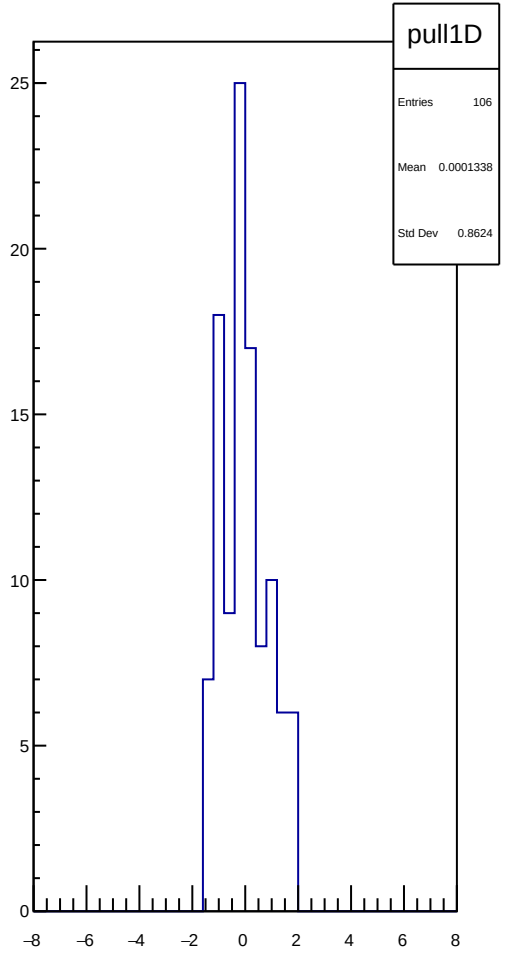

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 521 / 104
p0 1186 ± 0.8358
1260
1240
1220
1200
1180
1160
1140

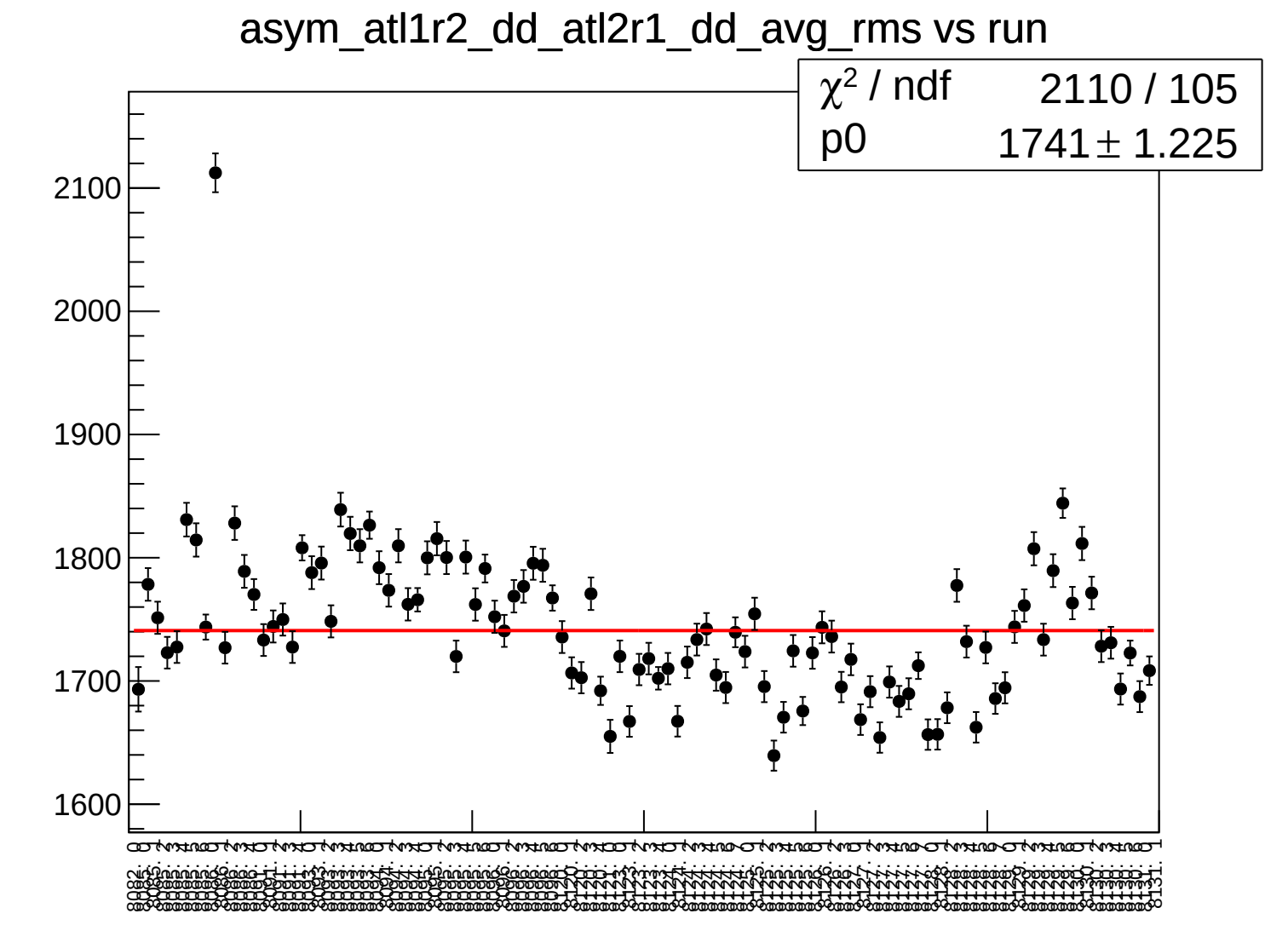

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 84.2 / 105
p0 −2193 ± 1295
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 106
Mean −120.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

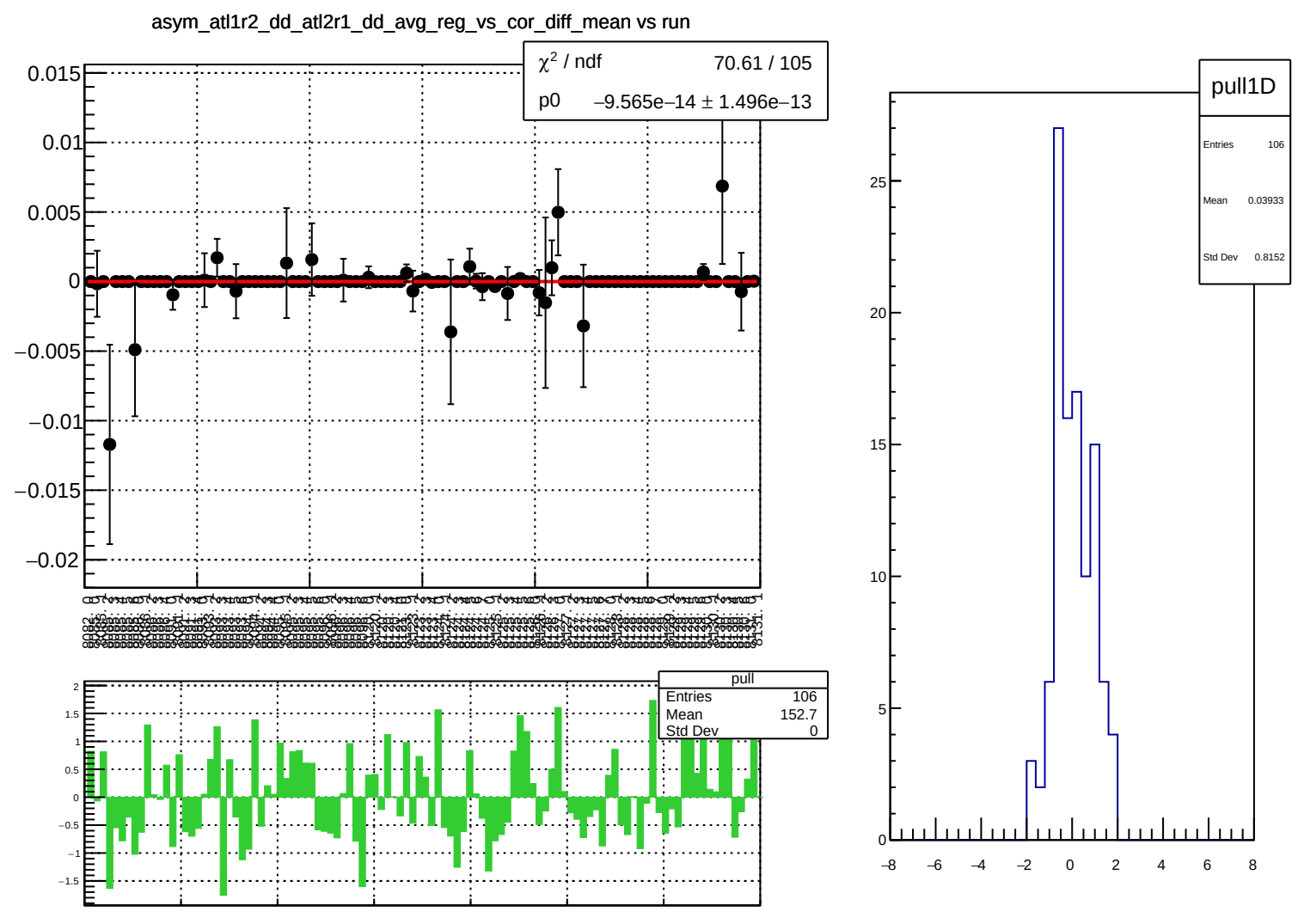

pull1D
Entries 106
Mean −0.009846
Std Dev 0.8912
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

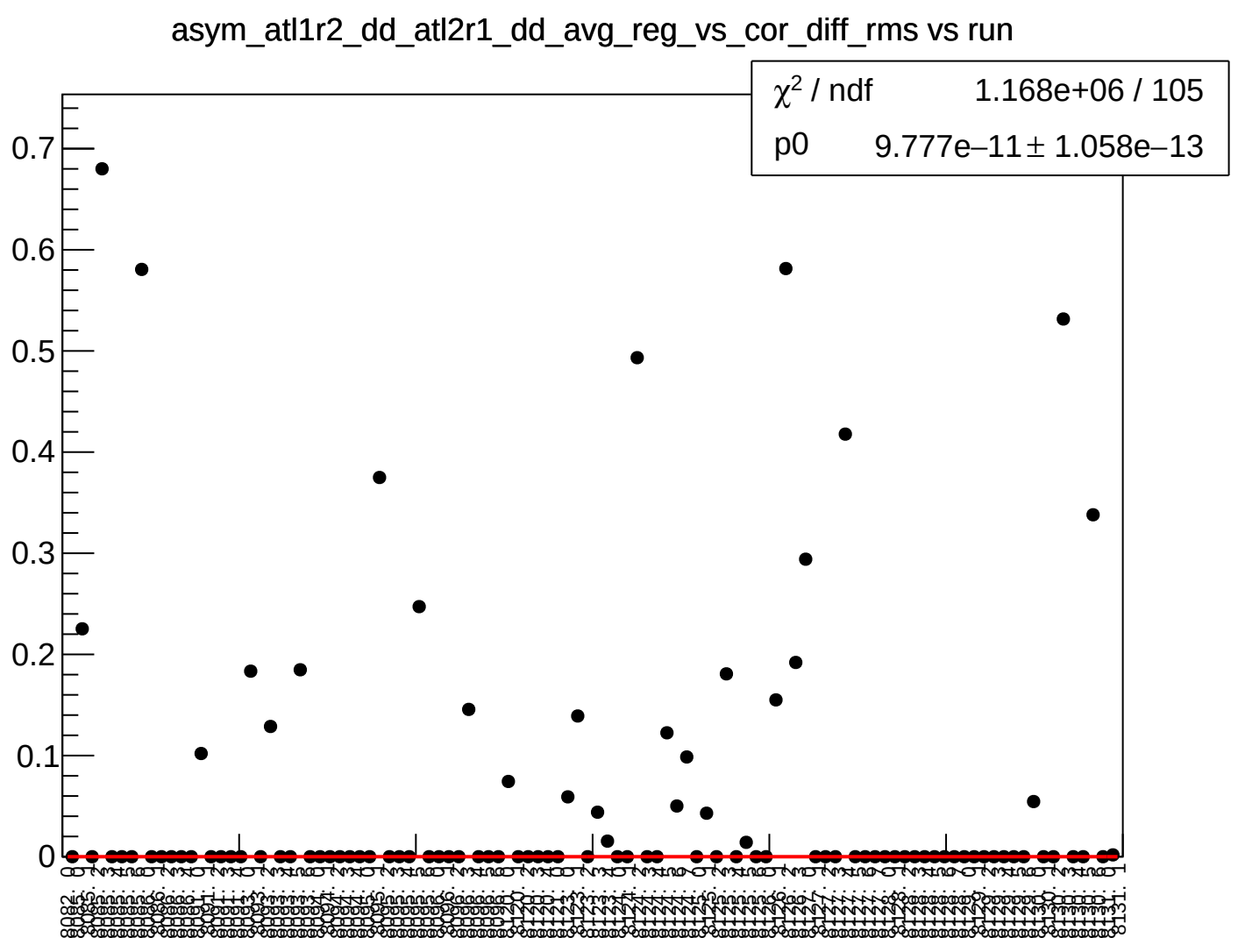

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 5847 / 105
p0 1301 ± 0.9157
1700
1600
1500
1400
1300
1200

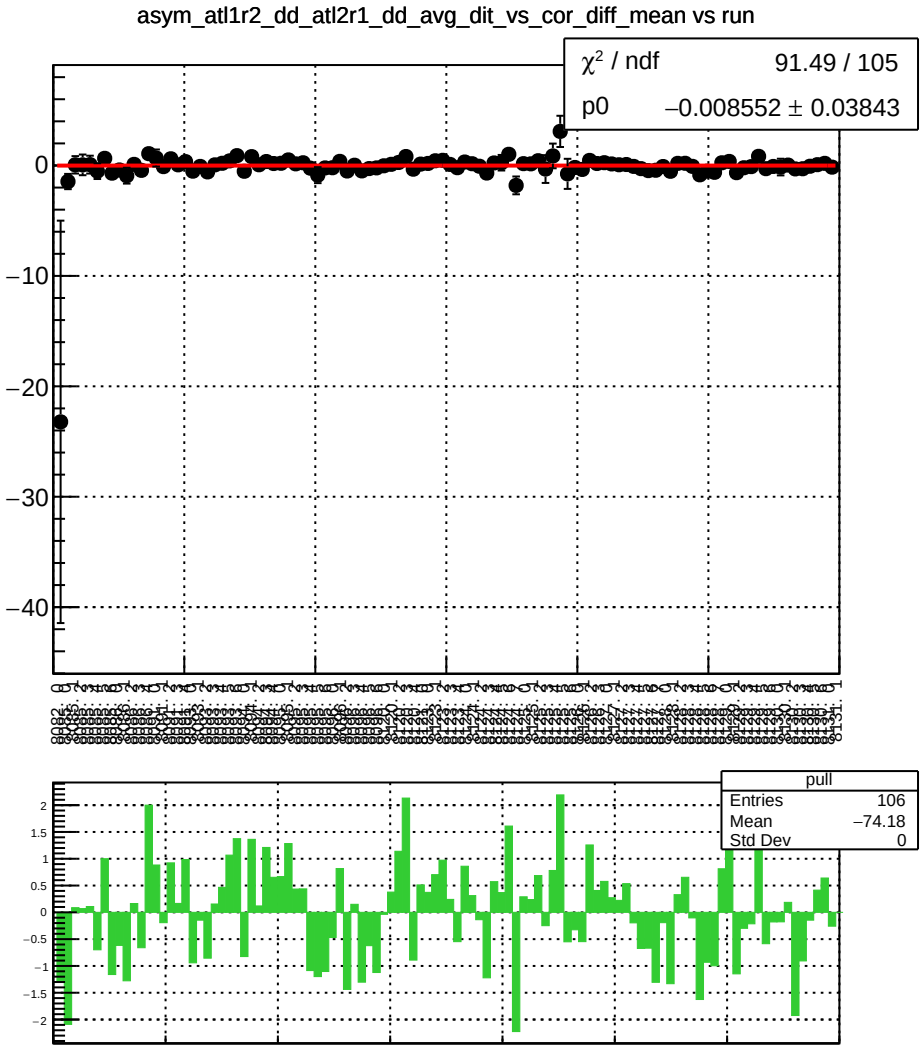

asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
χ² / ndf 78.84 / 105
p0 3265 ± 1732
80000
60000
40000
20000
0
−20000
−40000
pull
Entries 106
Mean 9600
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

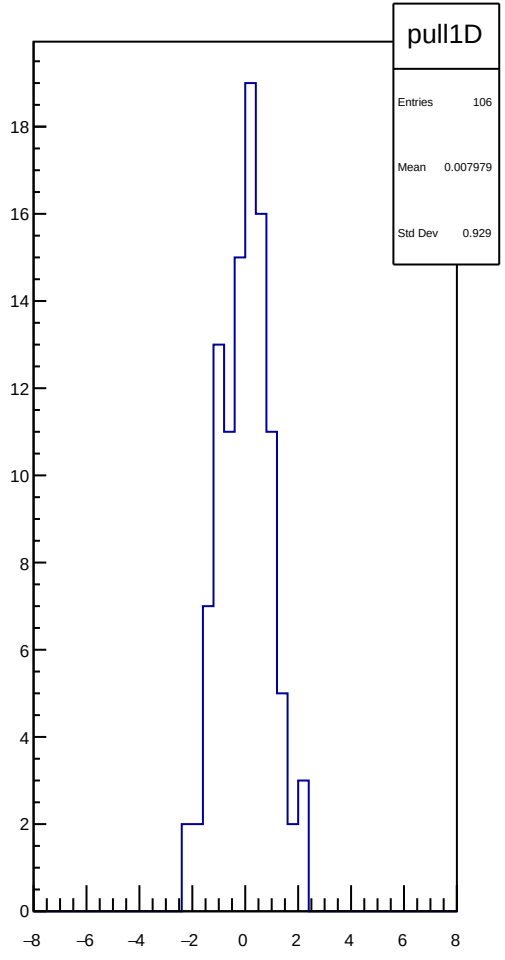

pull1D
Entries 106
Mean 0.0001338
Std Dev 0.8624
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

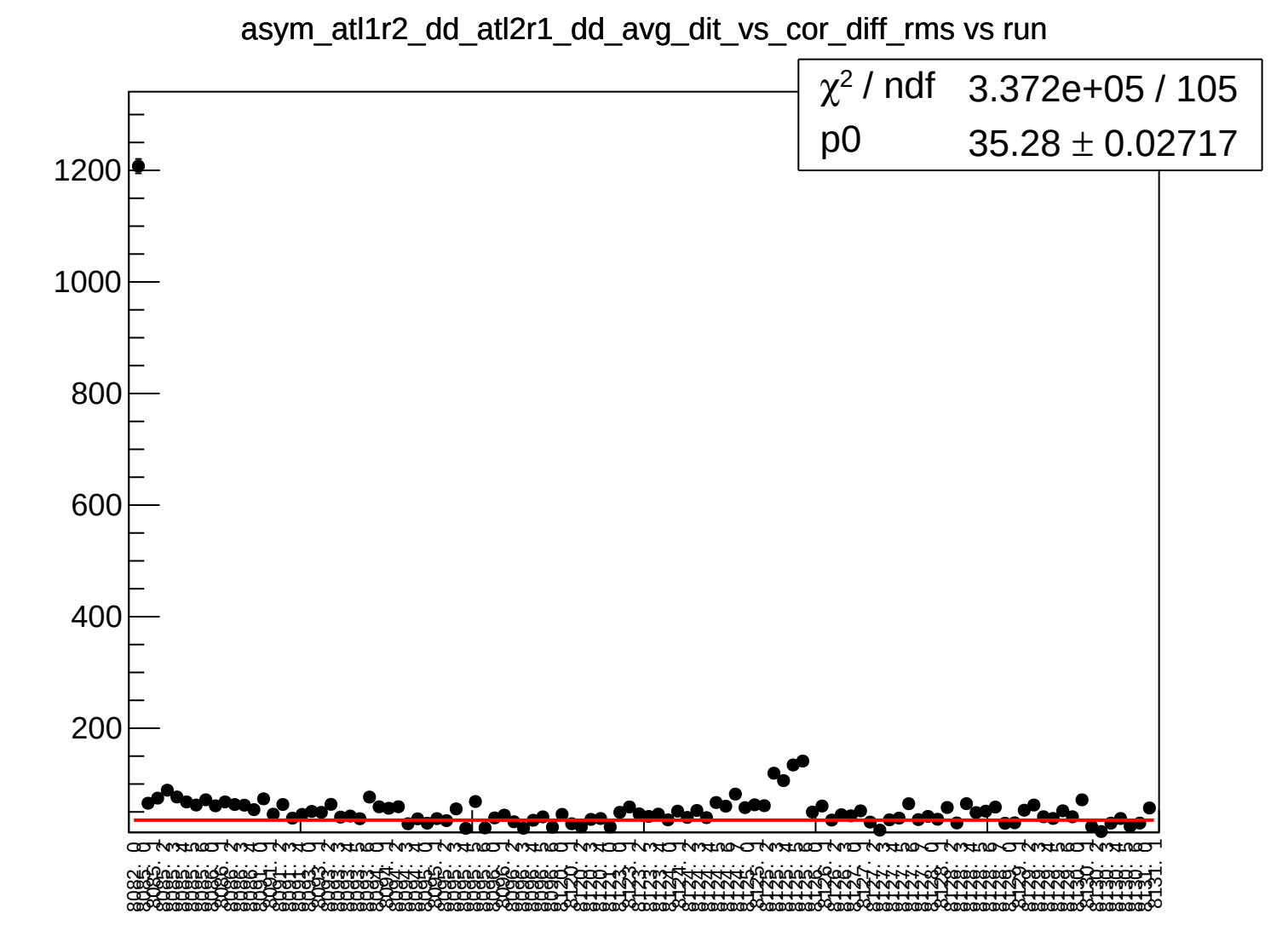

asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 2110 / 105
p0 1741 ± 1.225
2100
2000
1900
1800
1700
1600

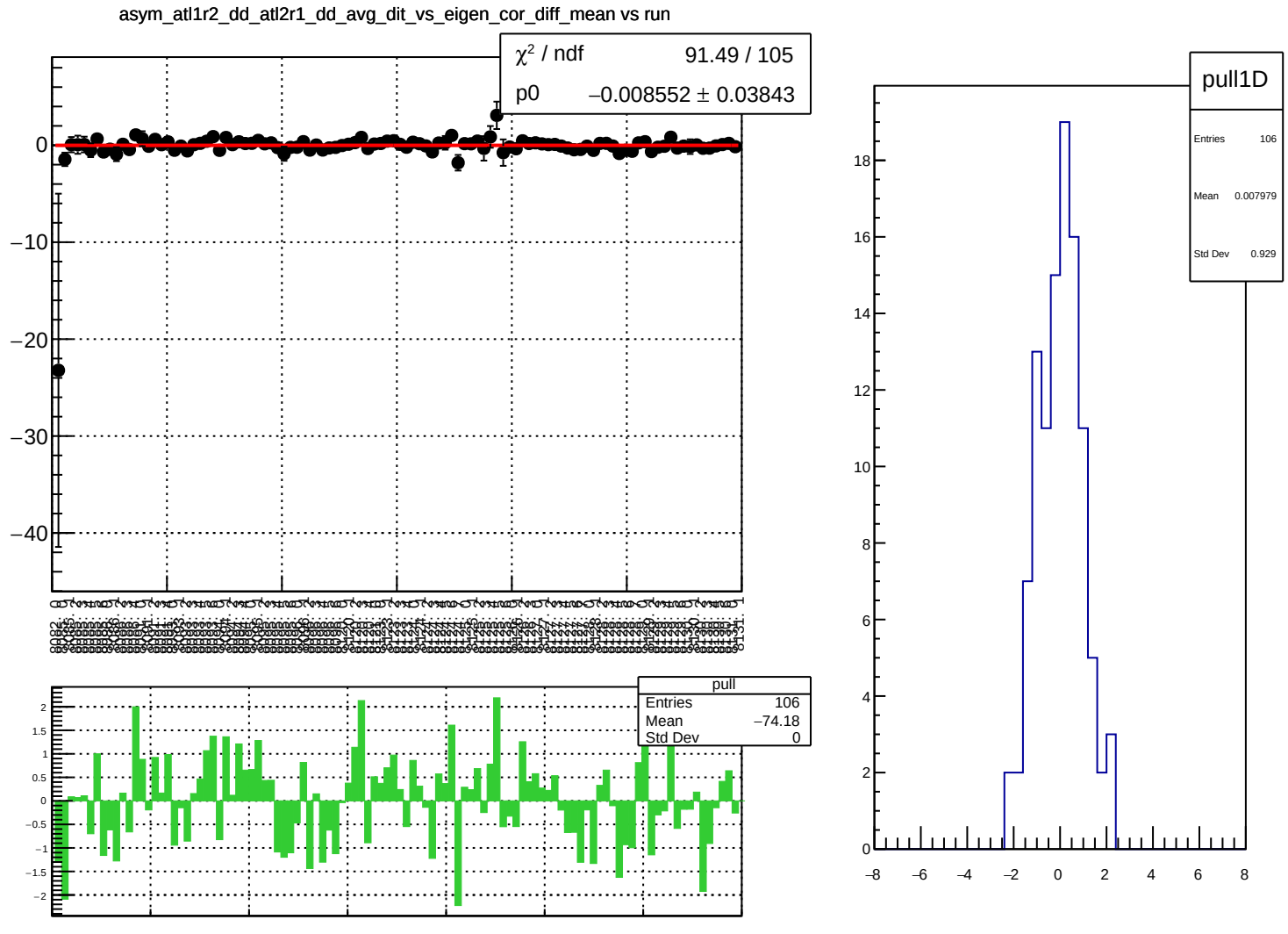

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 70.61 / 105
p0 −9.565e−14 ± 1.496e−13
pull
Entries 106
Mean 152.7
Std Dev 0
pull1D
Entries 106
Mean 0.03933
Std Dev 0.8152

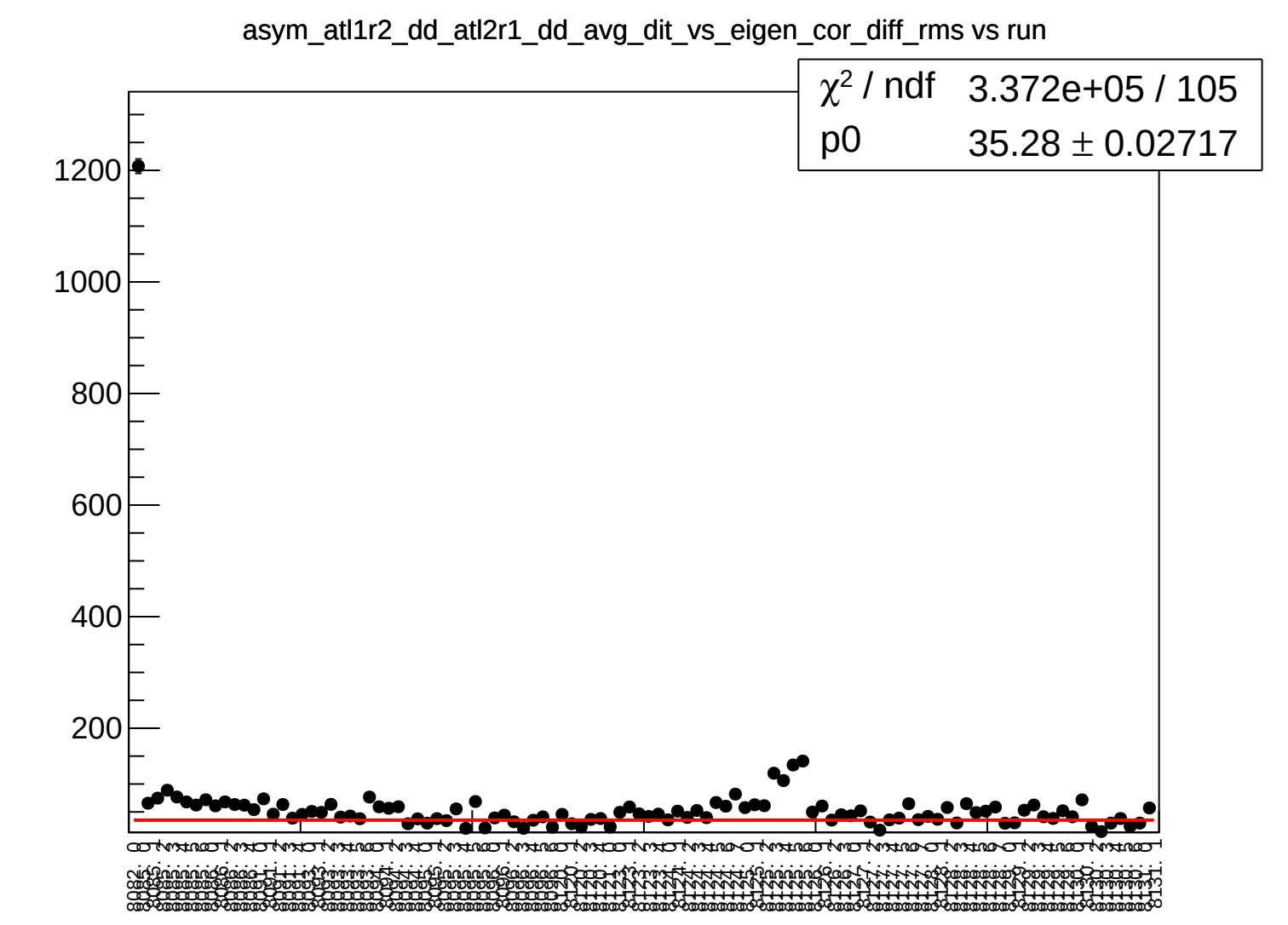

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.168e+06 / 105
p0 9.777e−11 ± 1.058e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

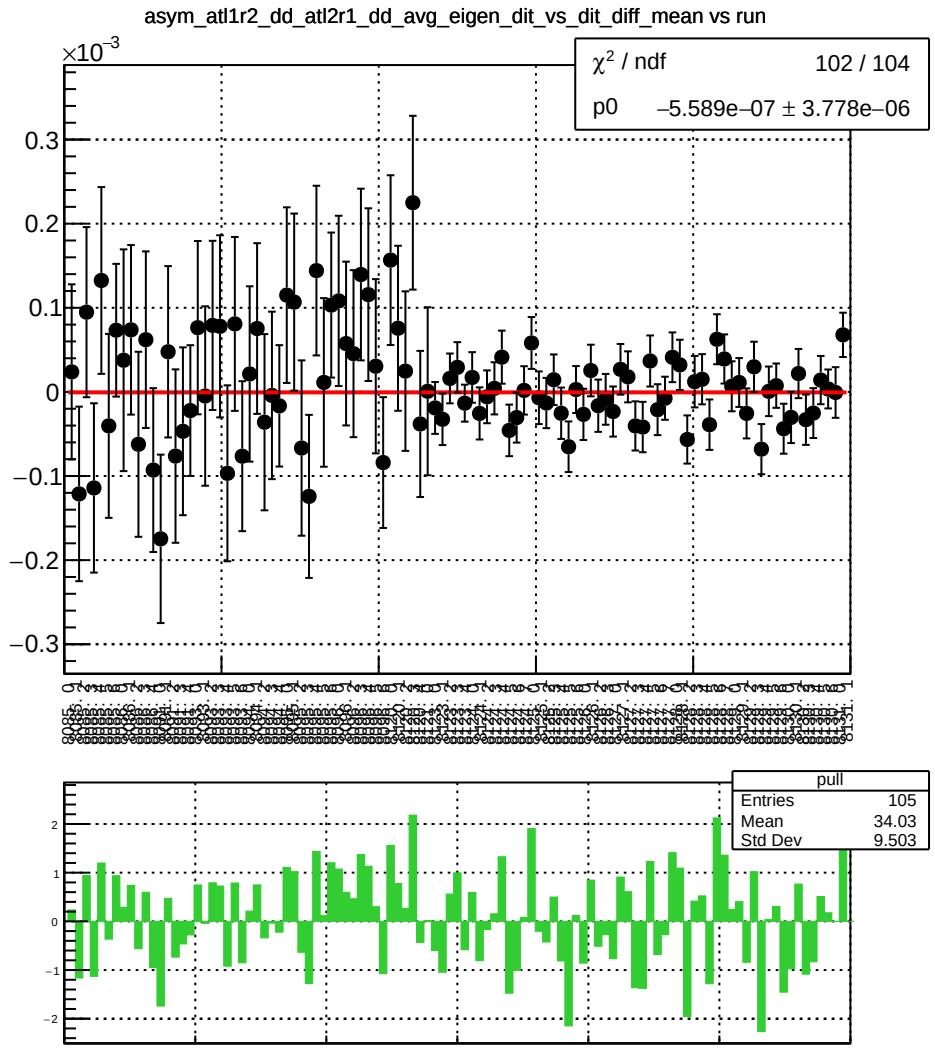

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 91.49 / 105
p0 −0.008552 ± 0.03843
0
−10
−20
−30
−40
pull
Entries 106
Mean −74.18
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

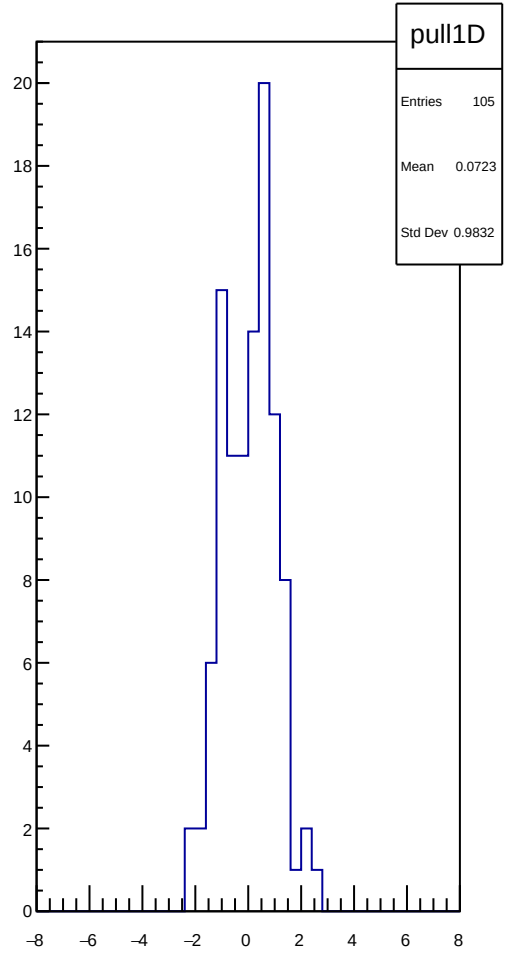

pull1D
Entries 106
Mean 0.007979
Std Dev 0.929
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

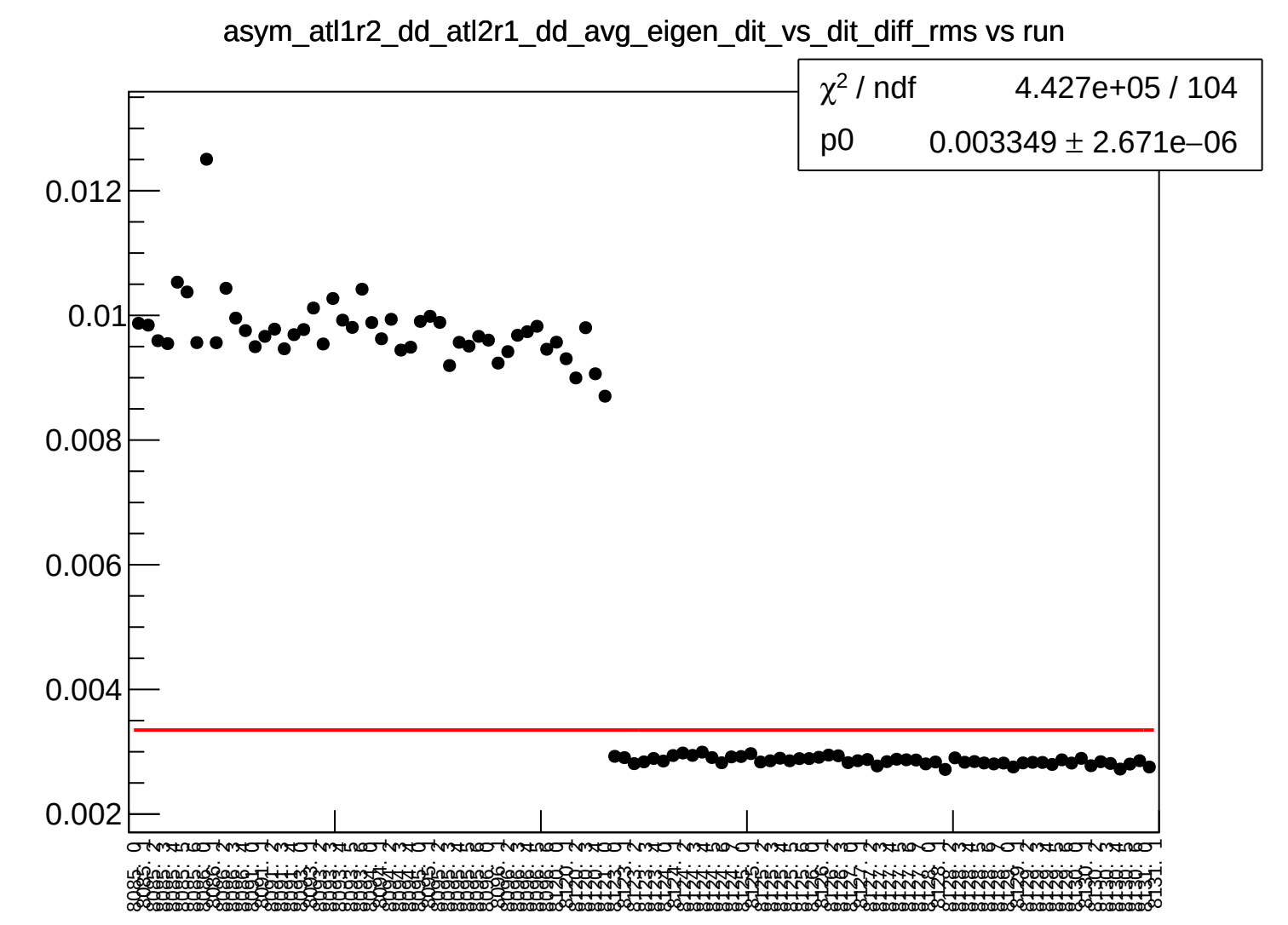

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.372e+05 / 105
p0 35.28 ± 0.02717
1200
1000
800
600
400
200

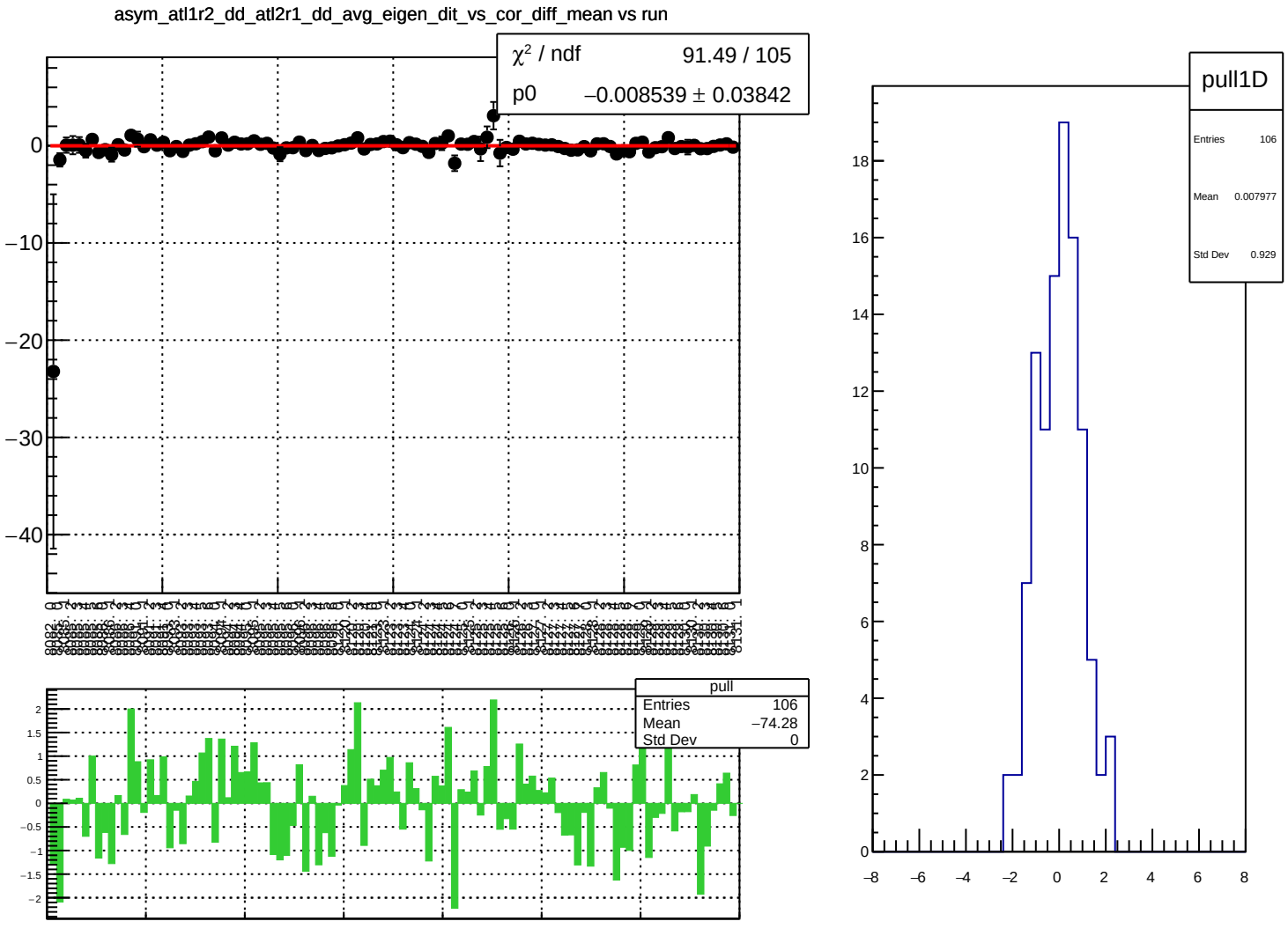

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.49 / 105
p0 −0.008552 ± 0.03843
0
−10
−20
−30
−40
pull
Entries 106
Mean −74.18
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 106
Mean 0.007979
Std Dev 0.929
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

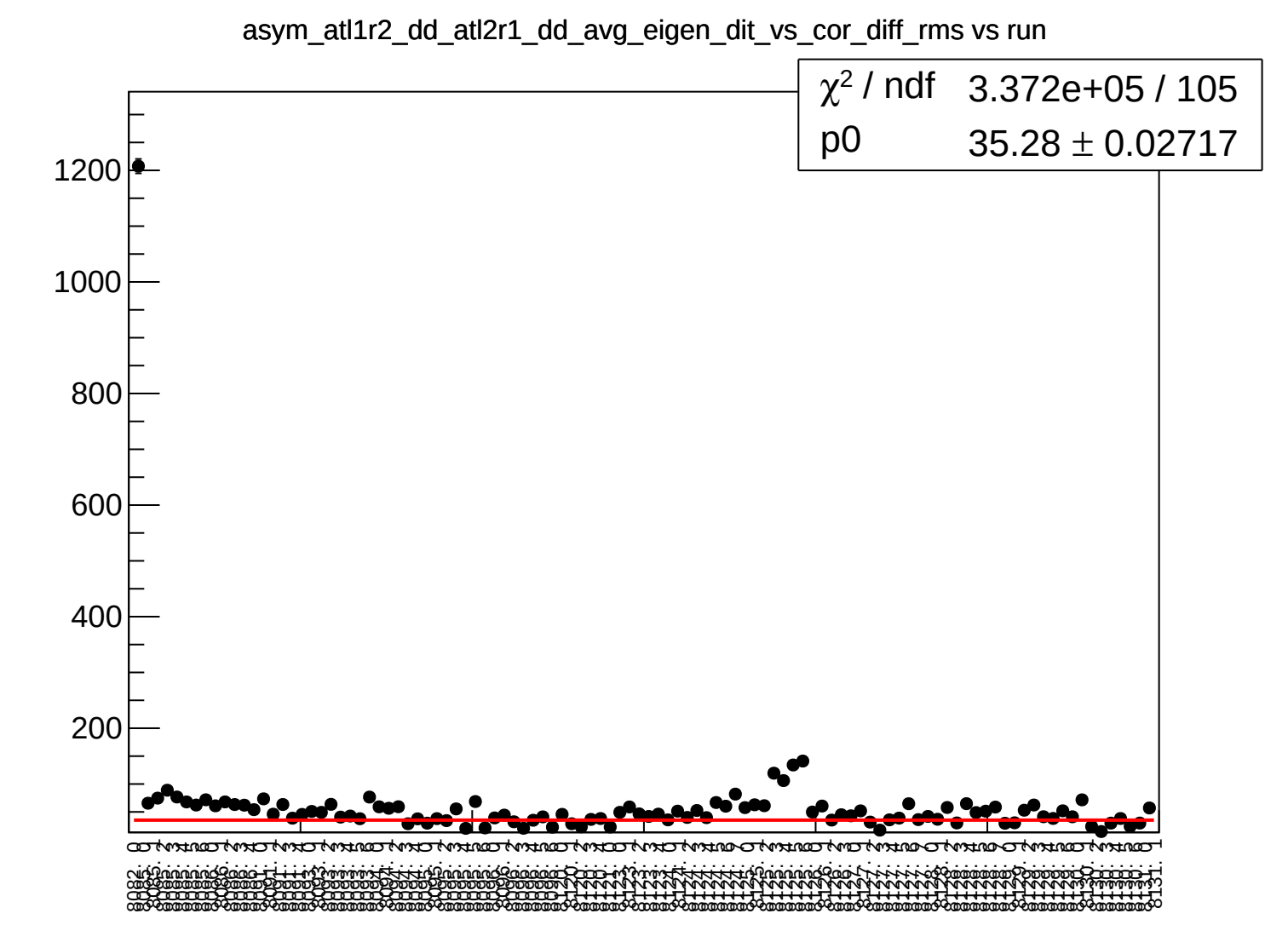

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.372e+05 / 105
p0 35.28 ± 0.02717
1200
1000
800
600
400
200

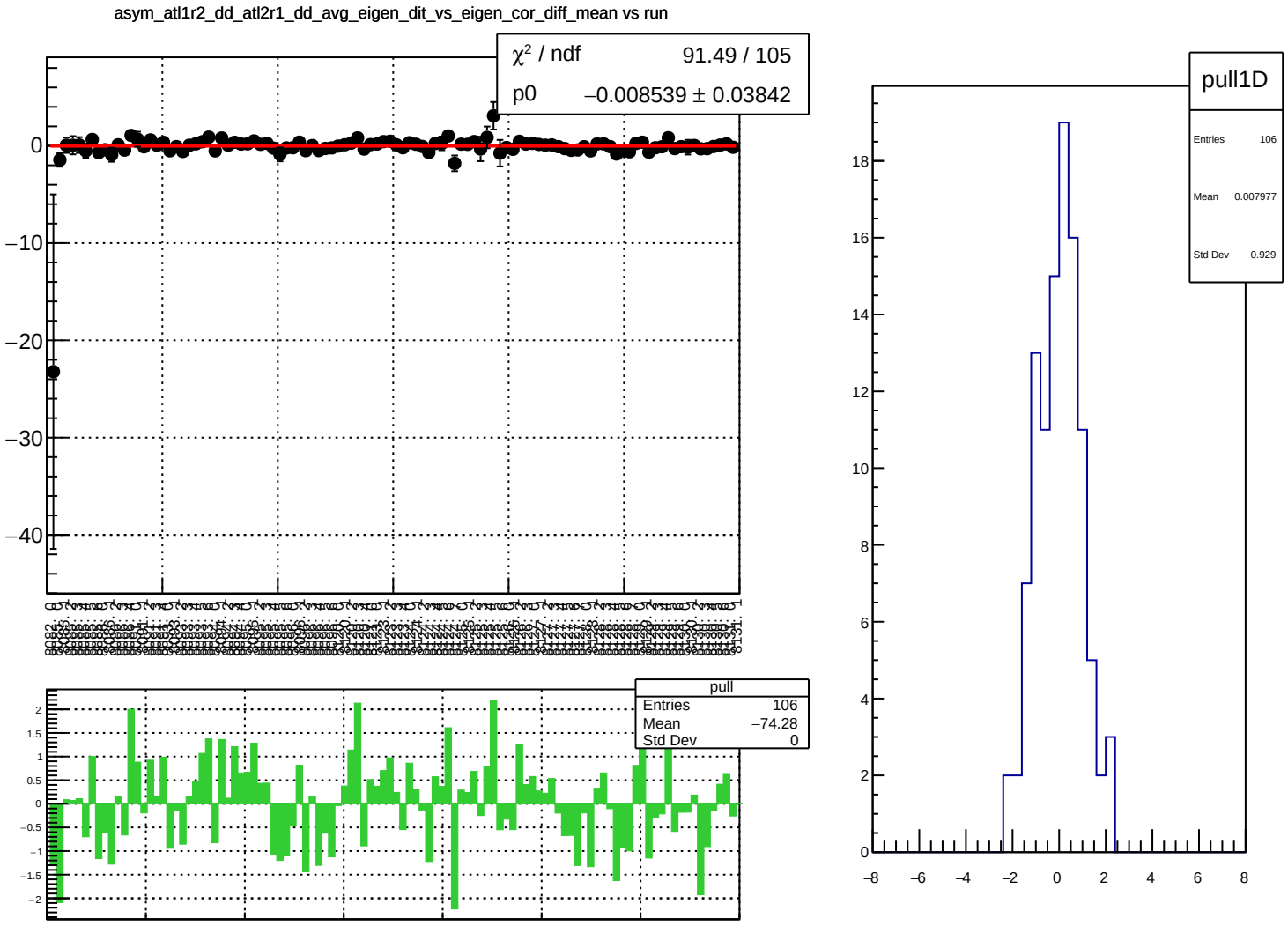

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 102 / 104
p0 −5.589e−07 ± 3.778e−06
pull
Entries 105
Mean 34.03
Std Dev 9.503

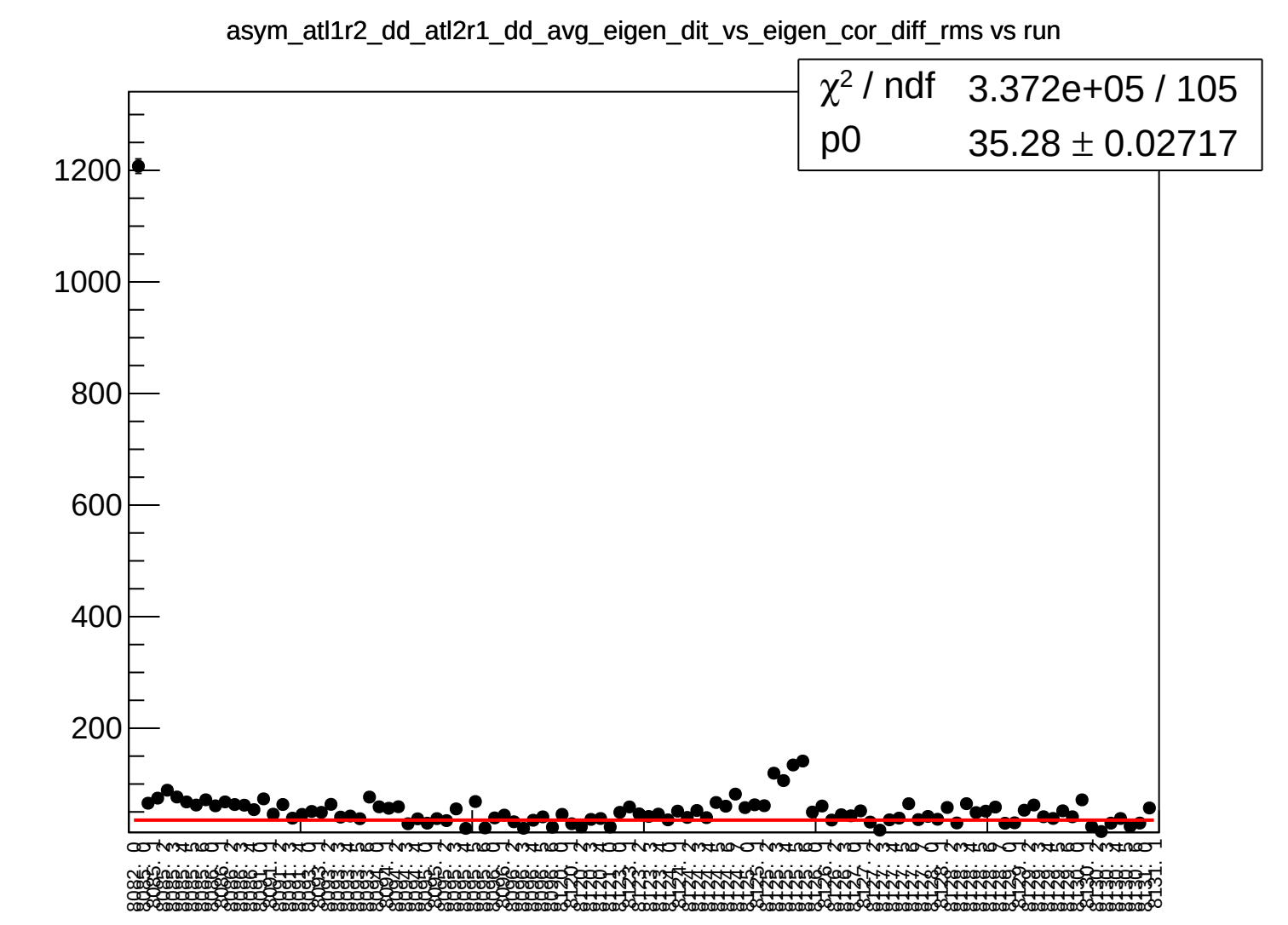

pull1D
Entries 105
Mean 0.0723
Std Dev 0.9832

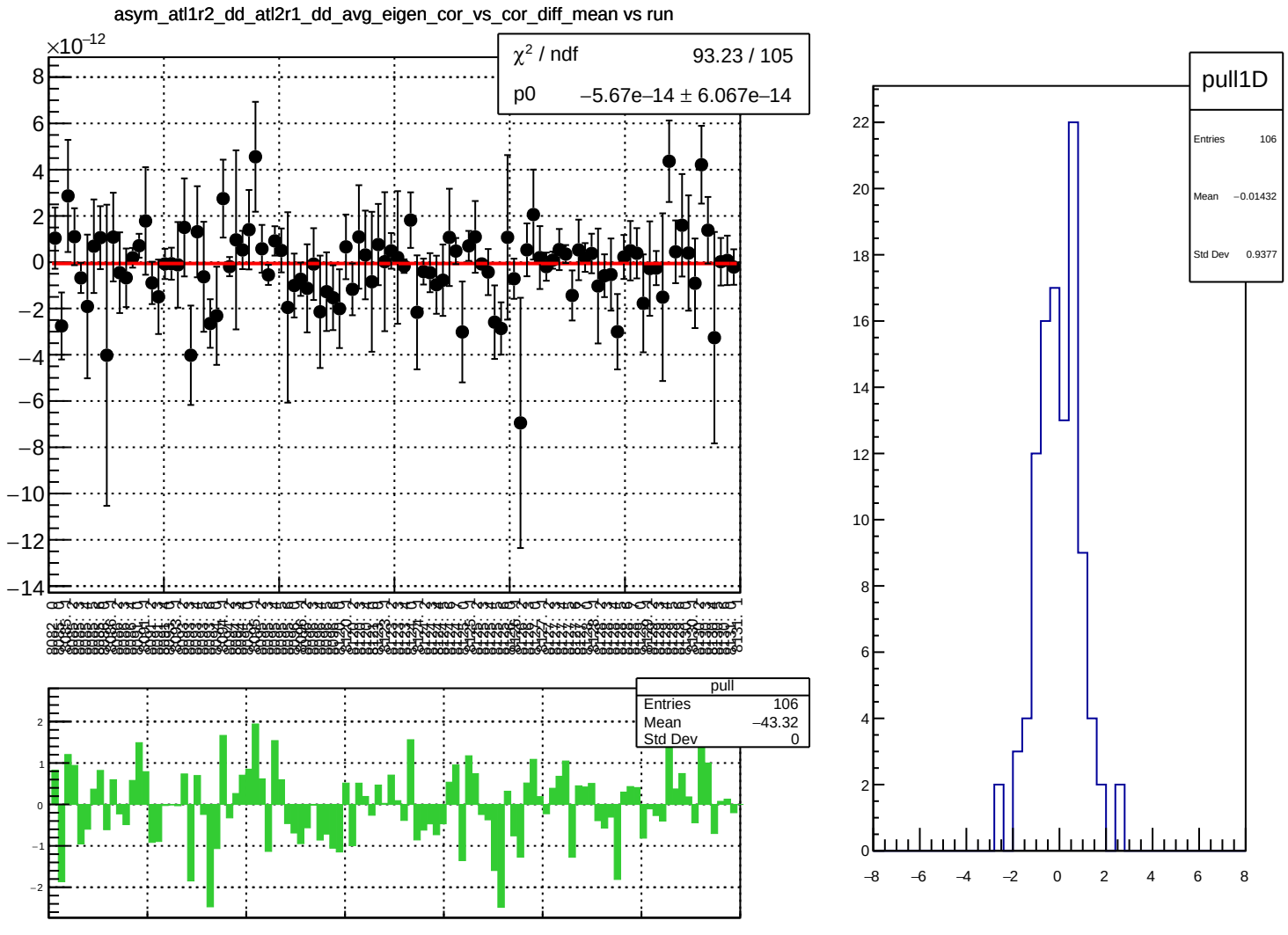

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.427e+05 / 104
p0 0.003349 ± 2.671e−06
0.012
0.01
0.008
0.006
0.004
0.002

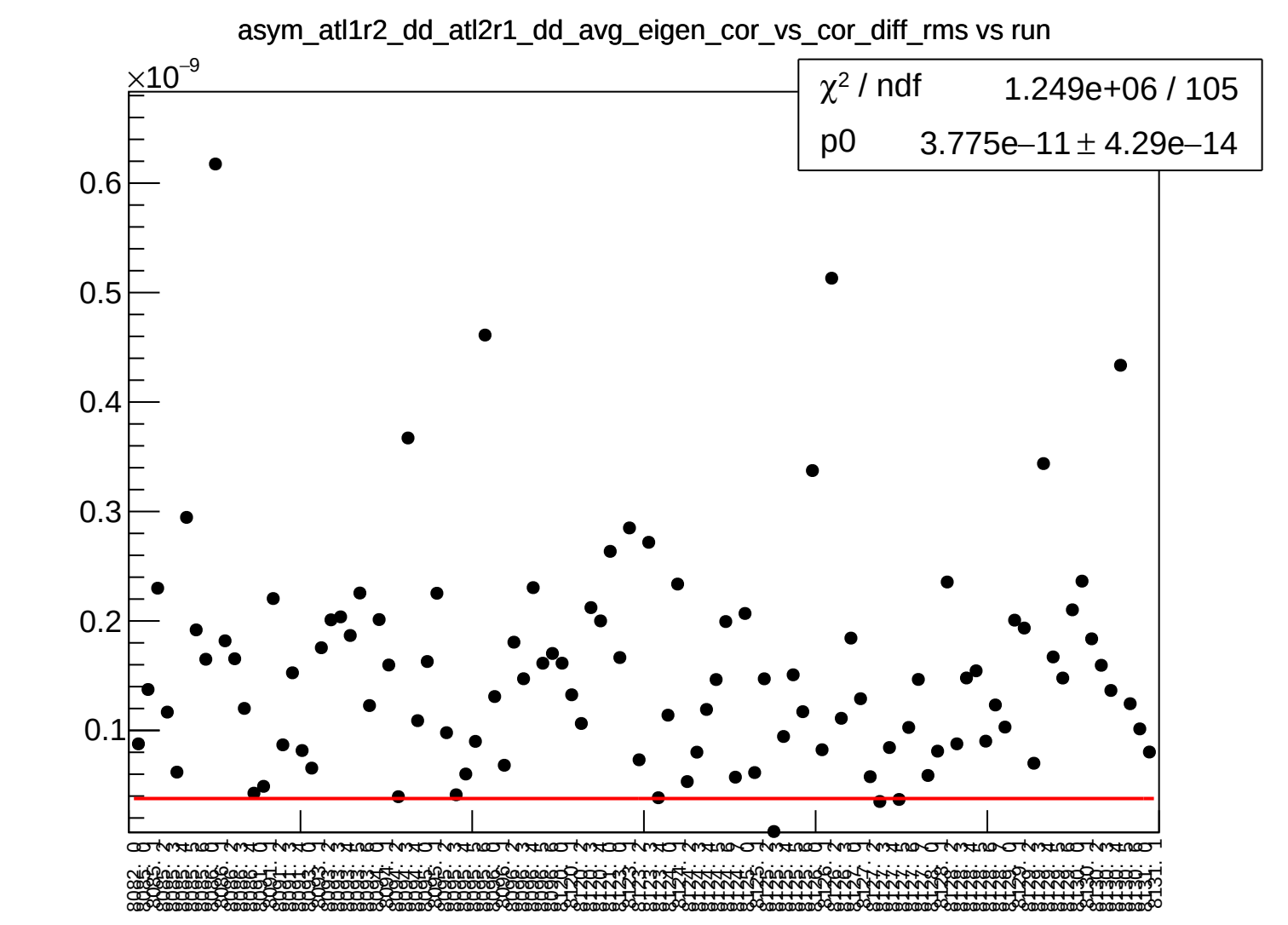

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.49 / 105
p0 −0.008539 ± 0.03842
0
−10
−20
−30
−40
pull
Entries 106
Mean −74.28
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 106
Mean 0.007977
Std Dev 0.929
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

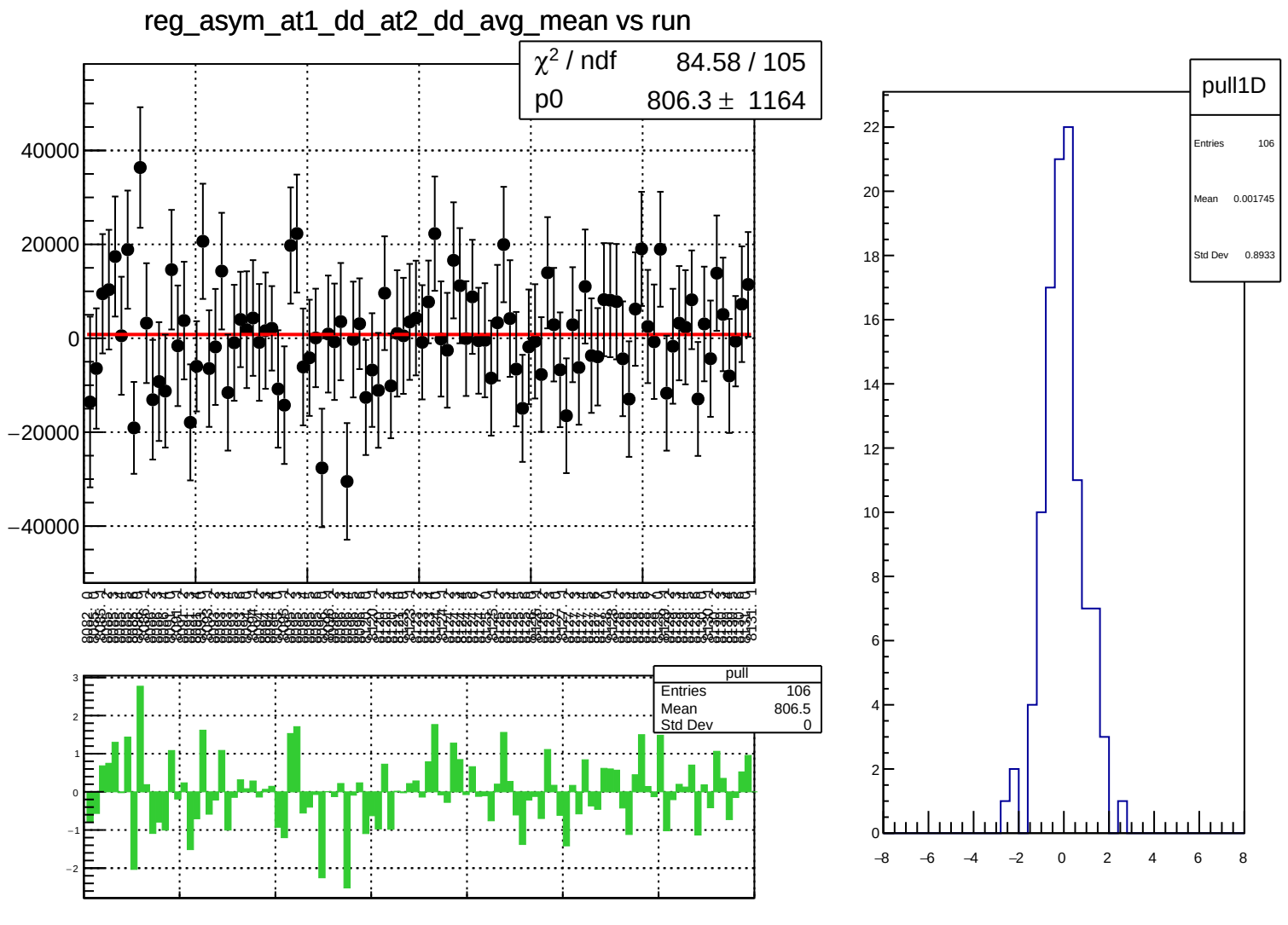

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.372e+05 / 105
p0 35.28 ± 0.02717
1200
1000
800
600
400
200

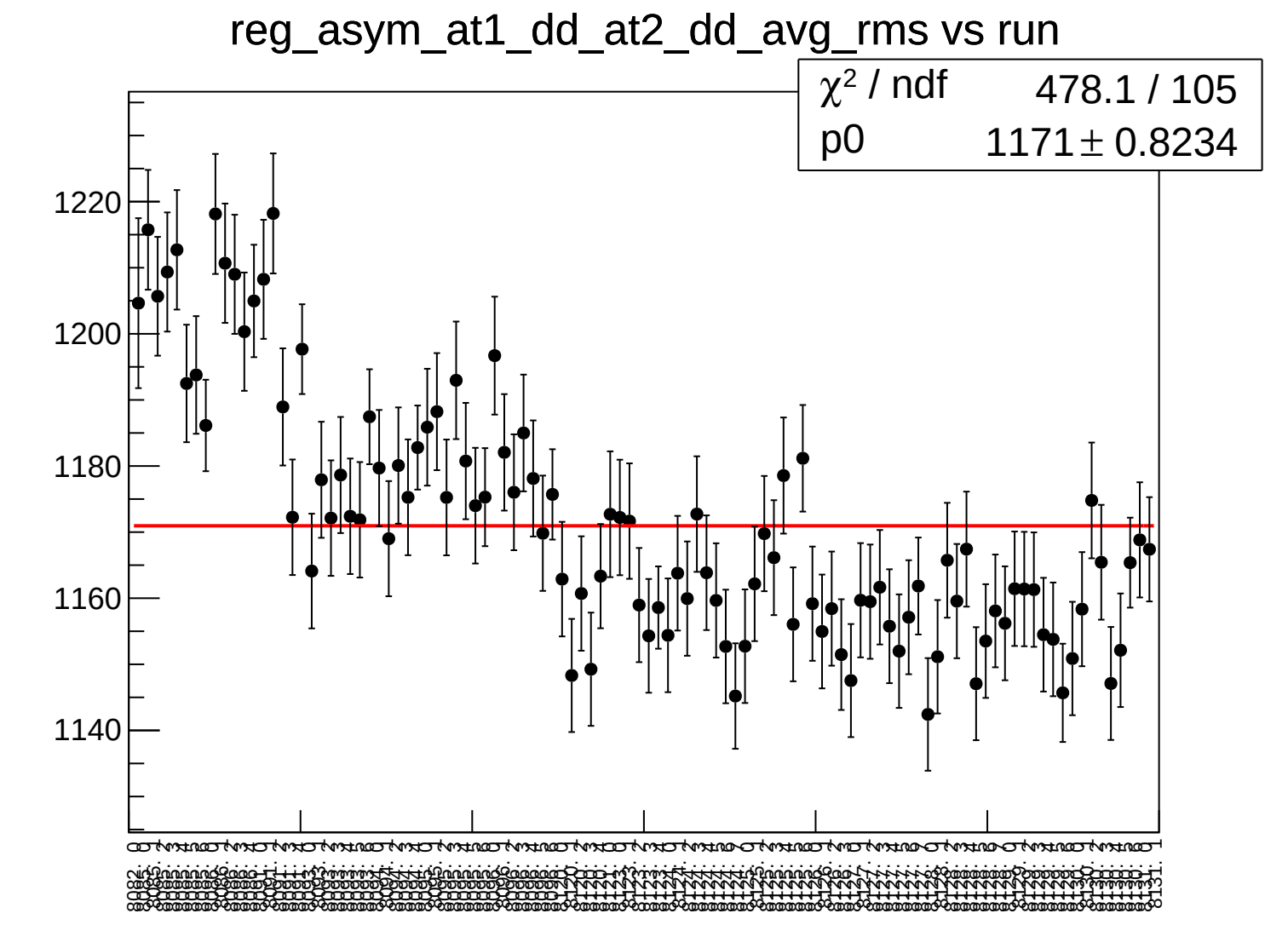

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.49 / 105
p0 −0.008539 ± 0.03842
0
−10
−20
−30
−40
pull
Entries 106
Mean −74.28
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 106
Mean 0.007977
Std Dev 0.929
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

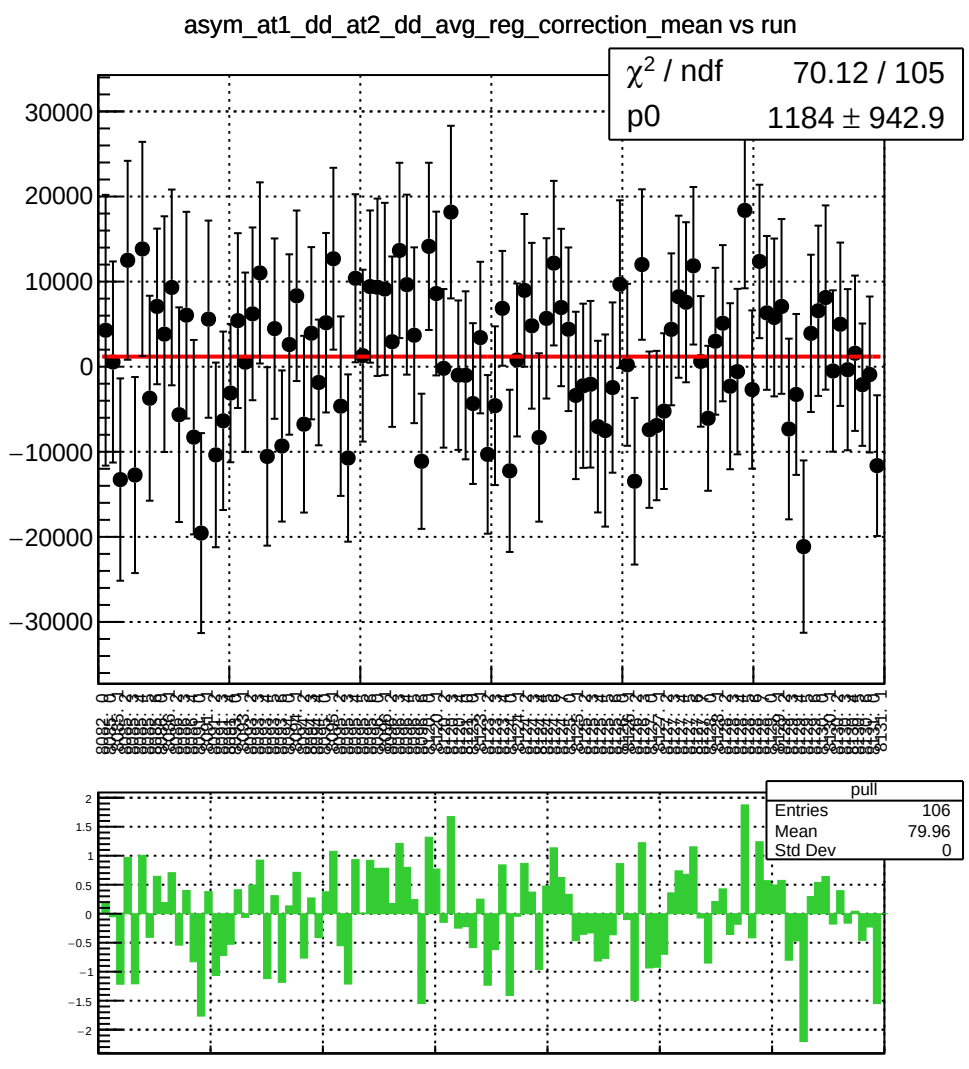

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.372e+05 / 105
p0 35.28 ± 0.02717
1200
1000
800
600
400
200

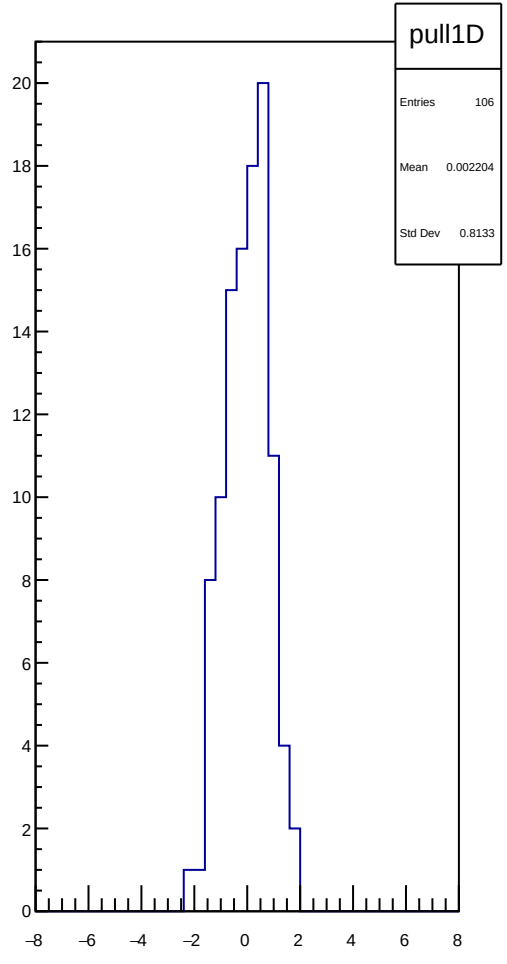

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 93.23 / 105
p0 −5.67e−14 ± 6.067e−14
pull
Entries 106
Mean −43.32
Std Dev 0
pull1D
Entries 106
Mean −0.01432
Std Dev 0.9377

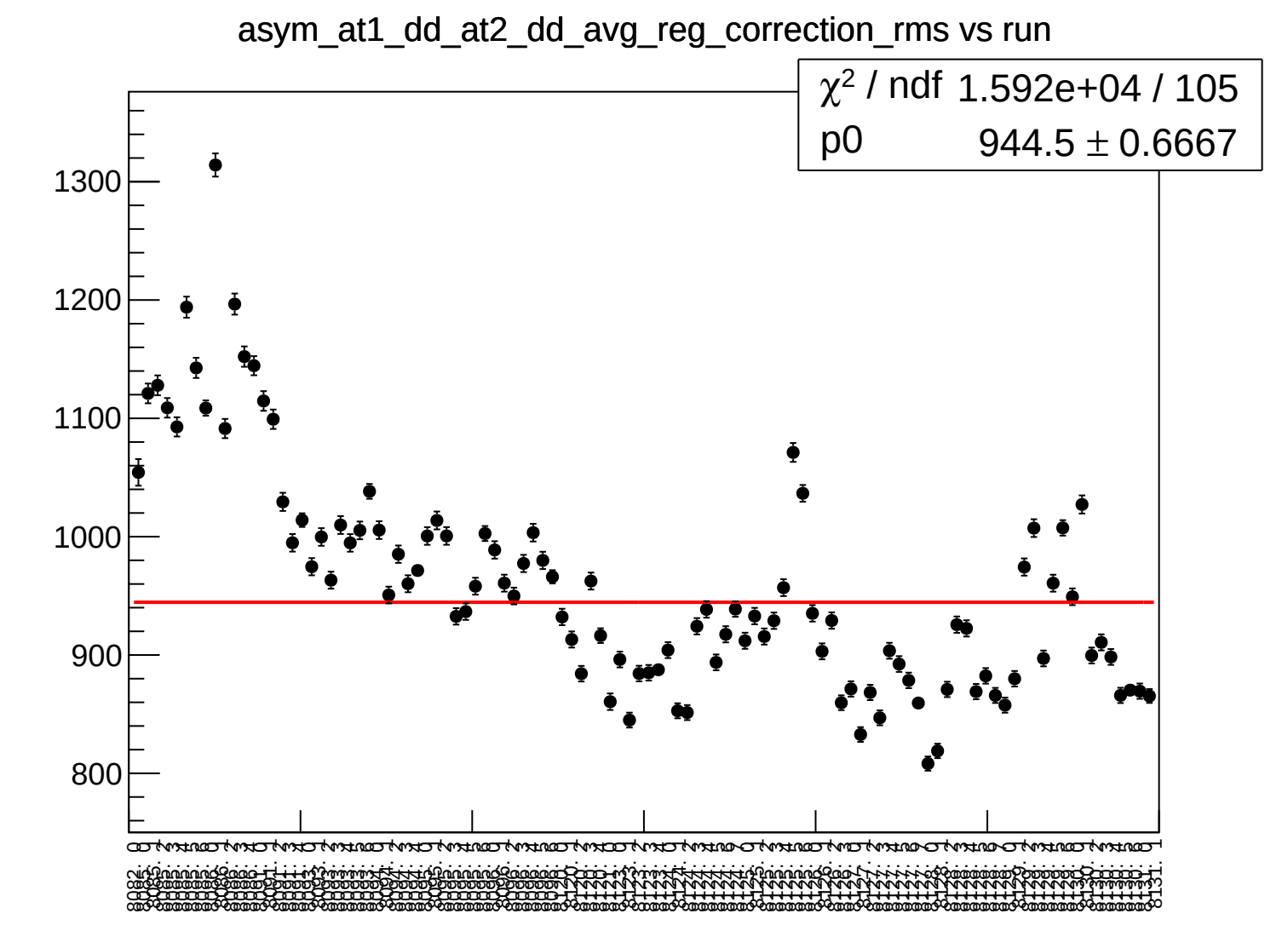

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.249e+06 / 105
p0 3.775e−11 ± 4.29e−14
0.6
0.5
0.4
0.3
0.2
0.1

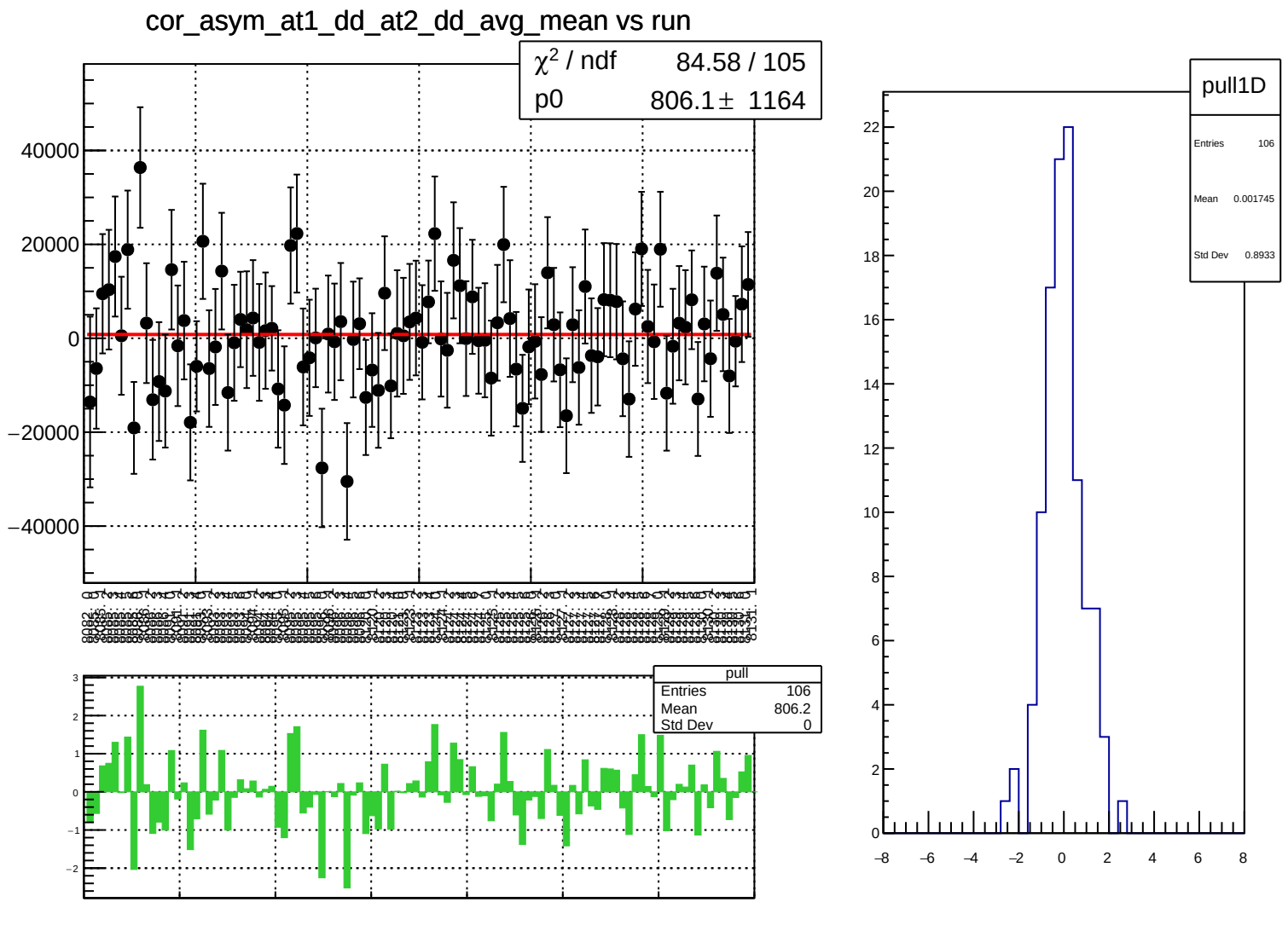

reg_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 84.58 / 105
p0 806.3 ± 1164
40000
20000
0
−20000
−40000
pull
Entries 106
Mean 806.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 106
Mean 0.001745
Std Dev 0.8933
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

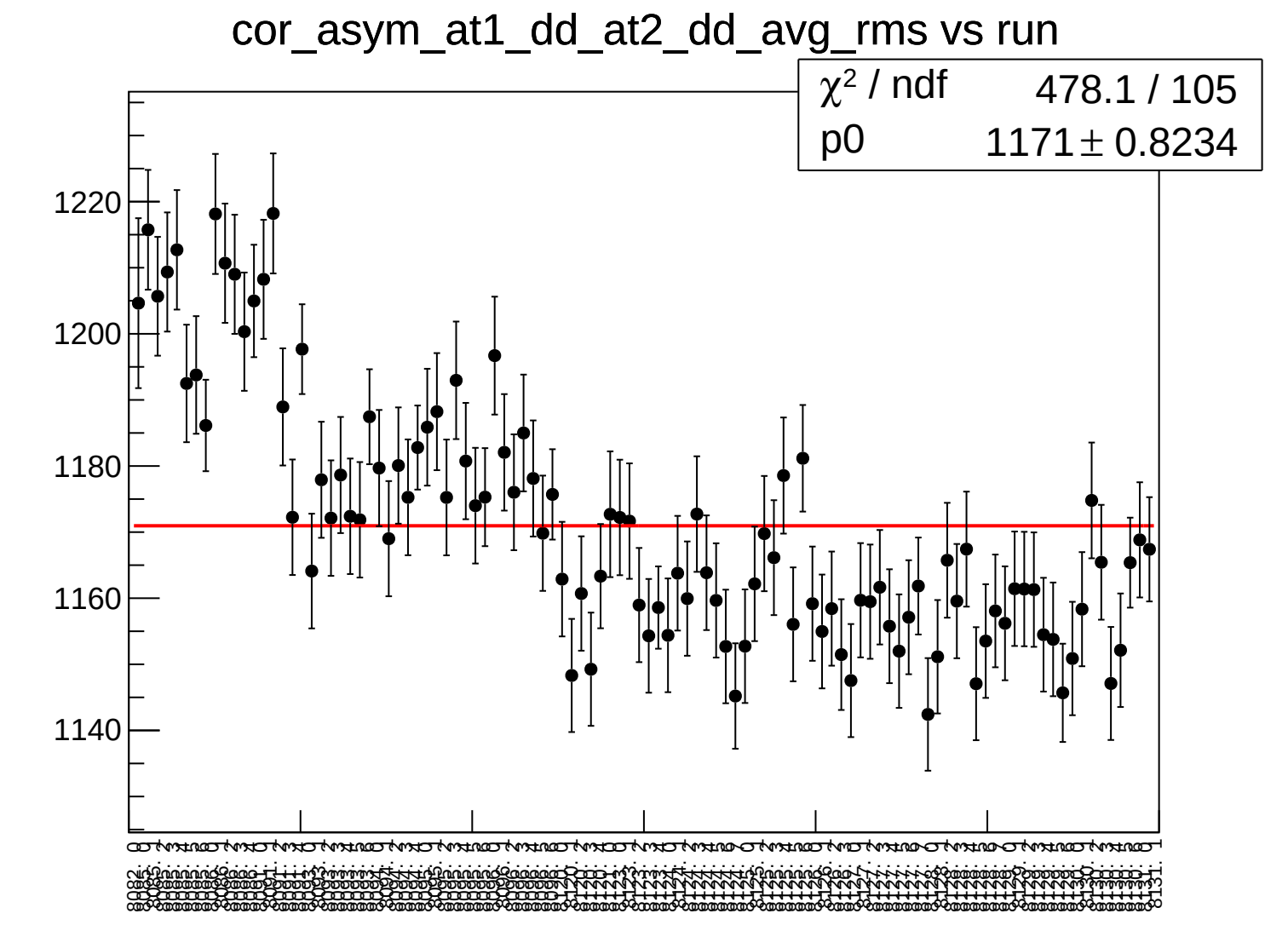

reg_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 478.1 / 105
p0 1171 ± 0.8234
1220
1200
1180
1160
1140

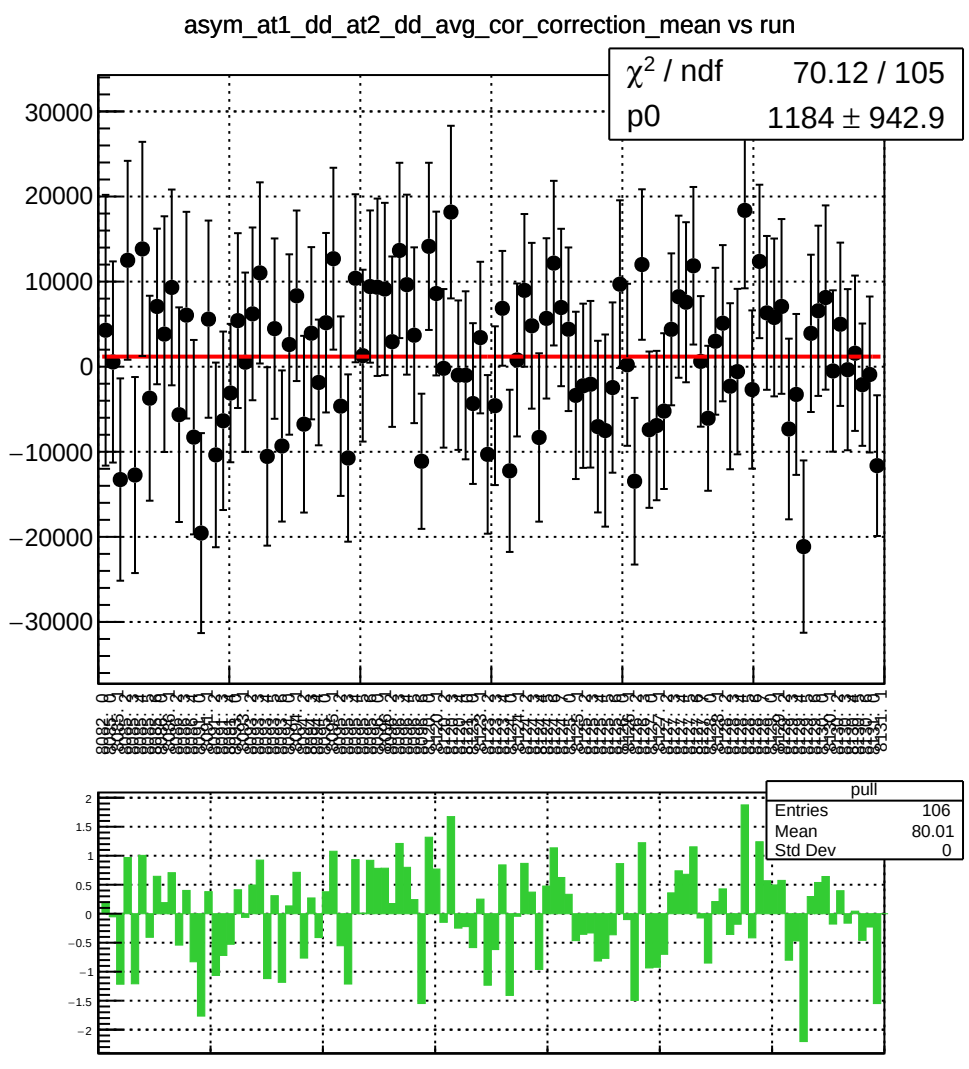

asym_at1_dd_at2_dd_avg_reg_correction_mean vs run
χ² / ndf 70.12 / 105
p0 1184 ± 942.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 106
Mean 79.96
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

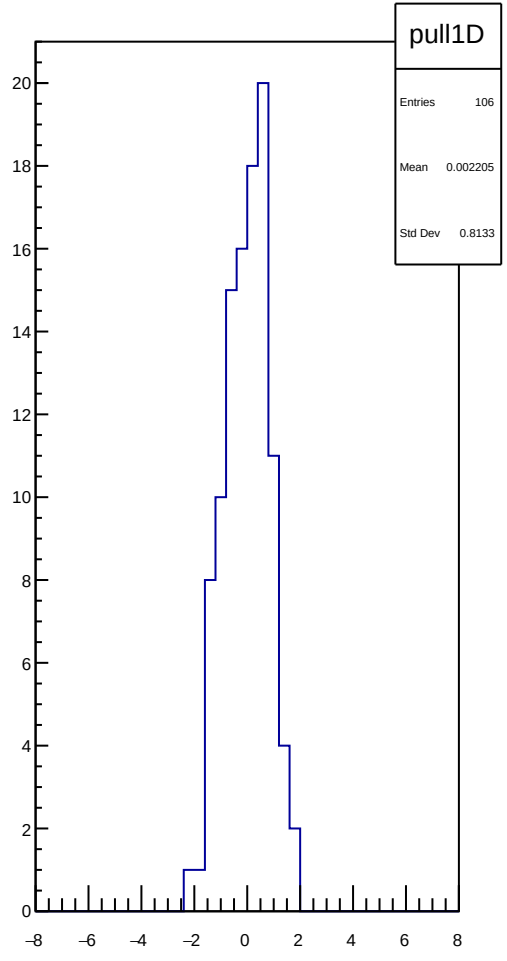

pull1D
Entries 106
Mean 0.002204
Std Dev 0.8133
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

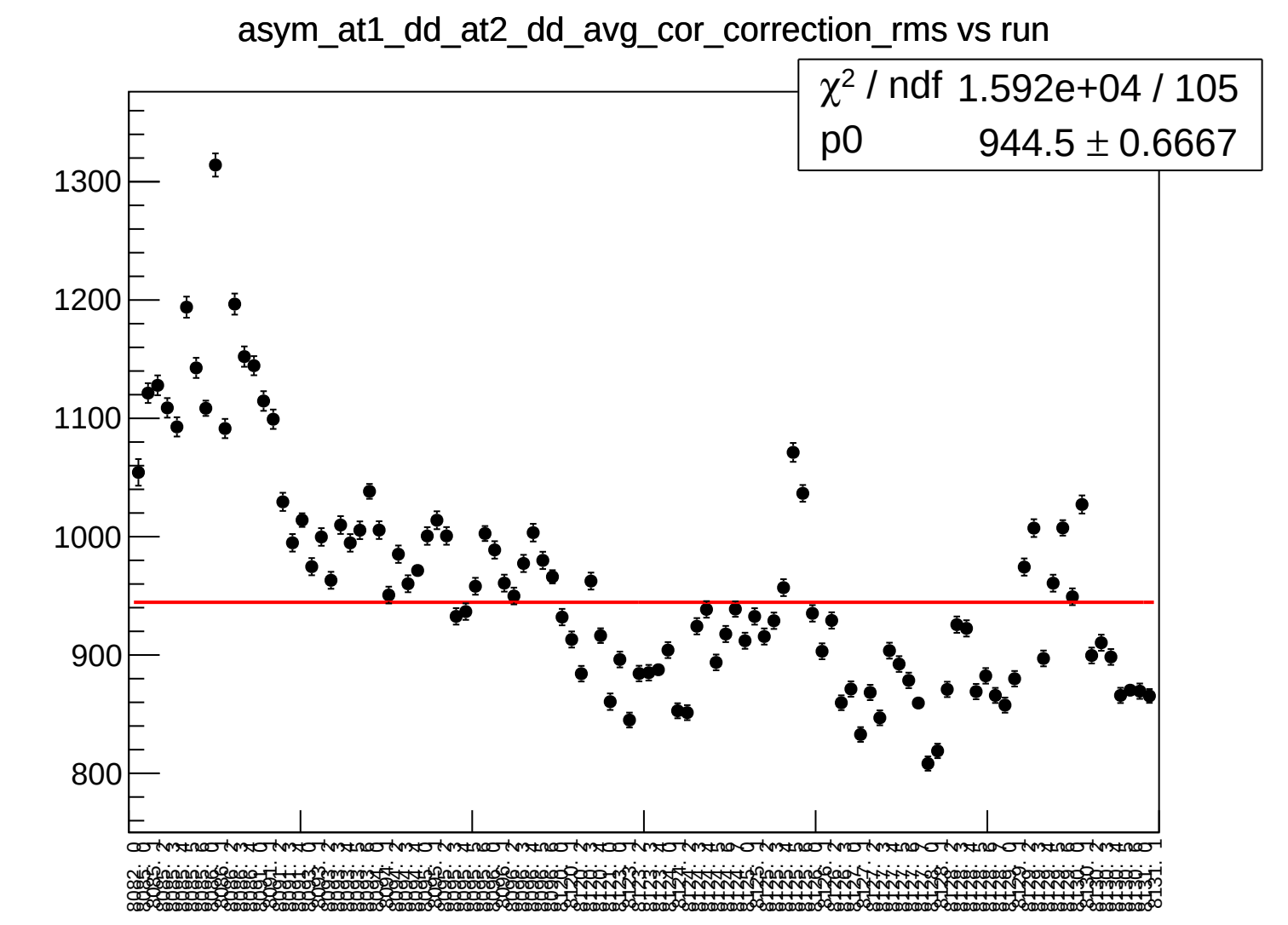

asym_at1_dd_at2_dd_avg_reg_correction_rms vs run
χ² / ndf 1.592e+04 / 105
p0 944.5 ± 0.6667
1300
1200
1100
1000
900
800

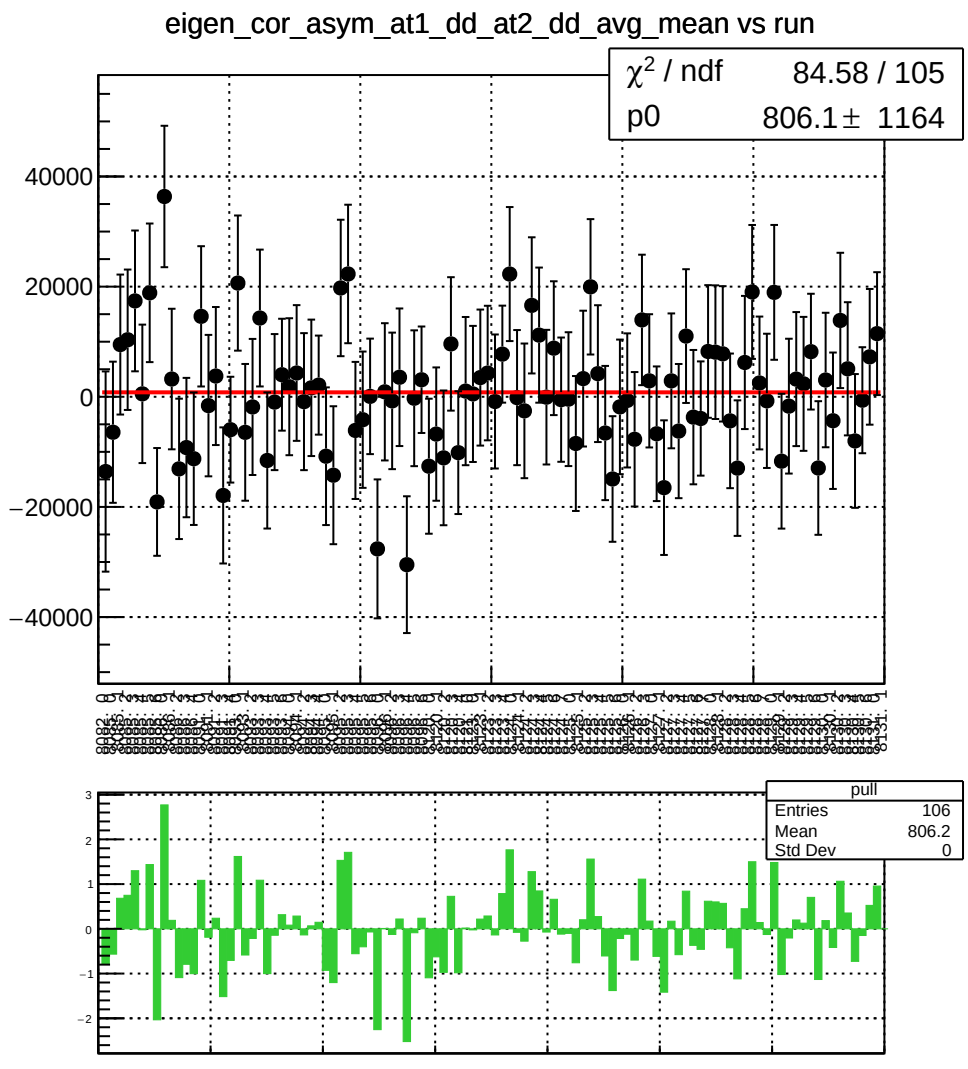

cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 84.58 / 105
p0 806.1 ± 1164
40000
20000
0
−20000
−40000
pull
Entries 106
Mean 806.2
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 106
Mean 0.001745
Std Dev 0.8933
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

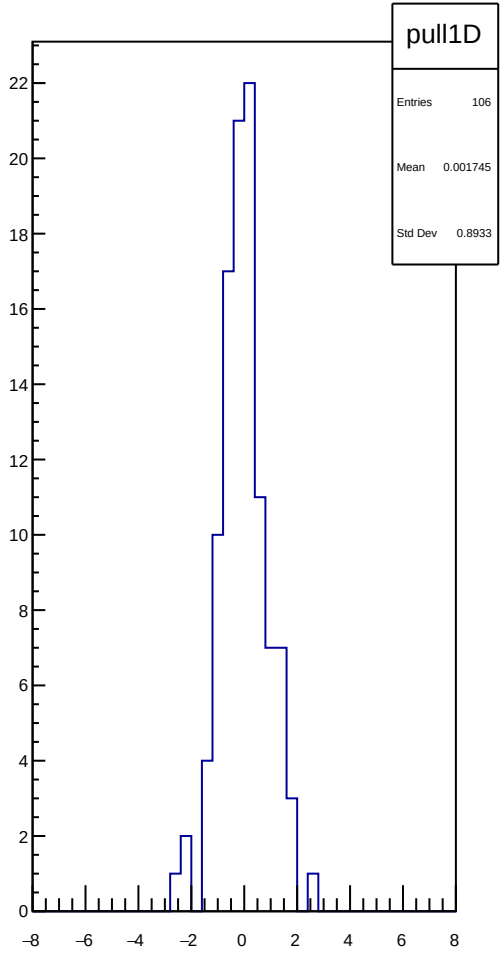

cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 478.1 / 105
p0 1171 ± 0.8234
1220
1200
1180
1160
1140

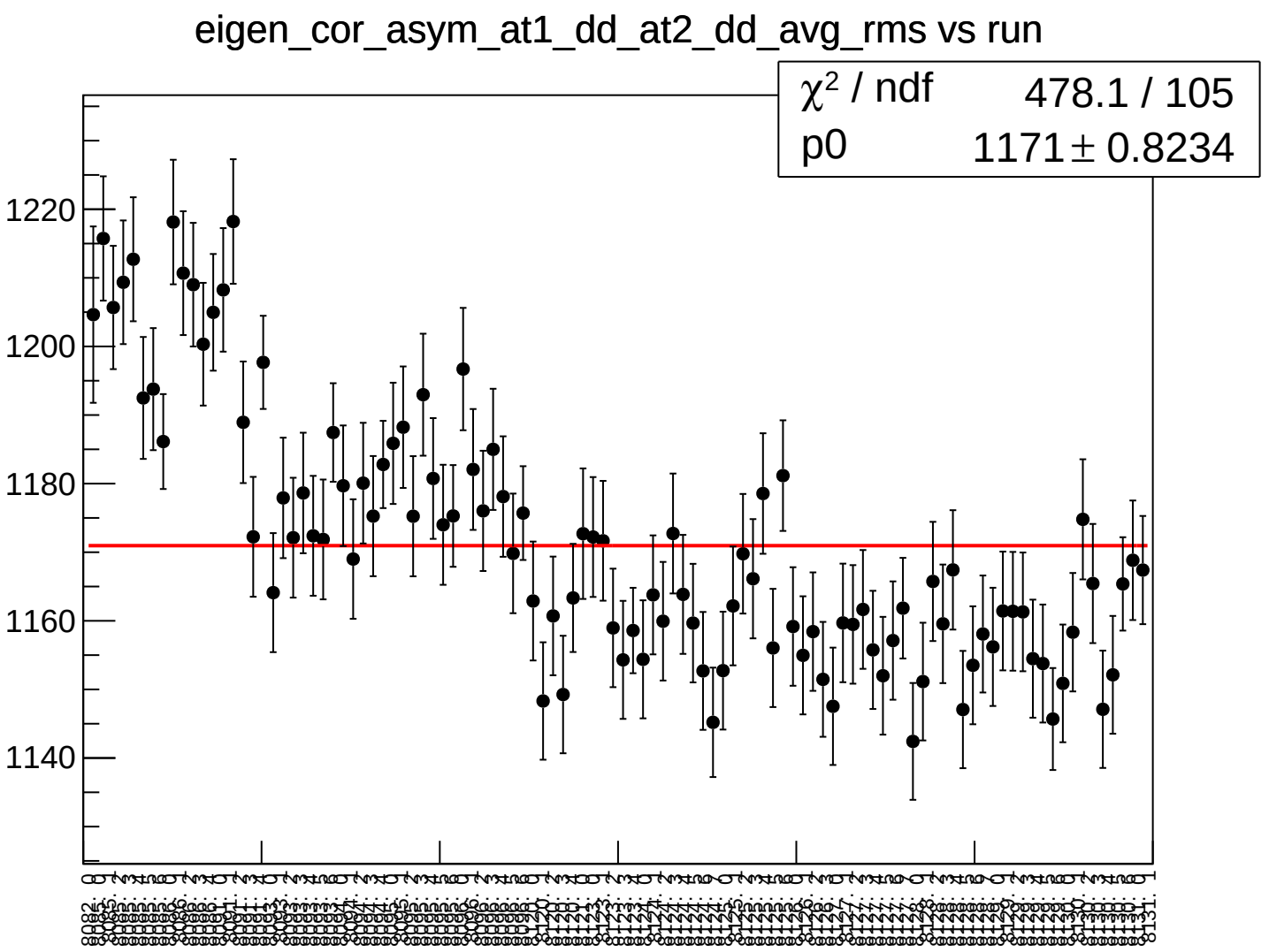

asym_at1_dd_at2_dd_avg_cor_correction_mean vs run
χ² / ndf 70.12 / 105
p0 1184 ± 942.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 106
Mean 80.01
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

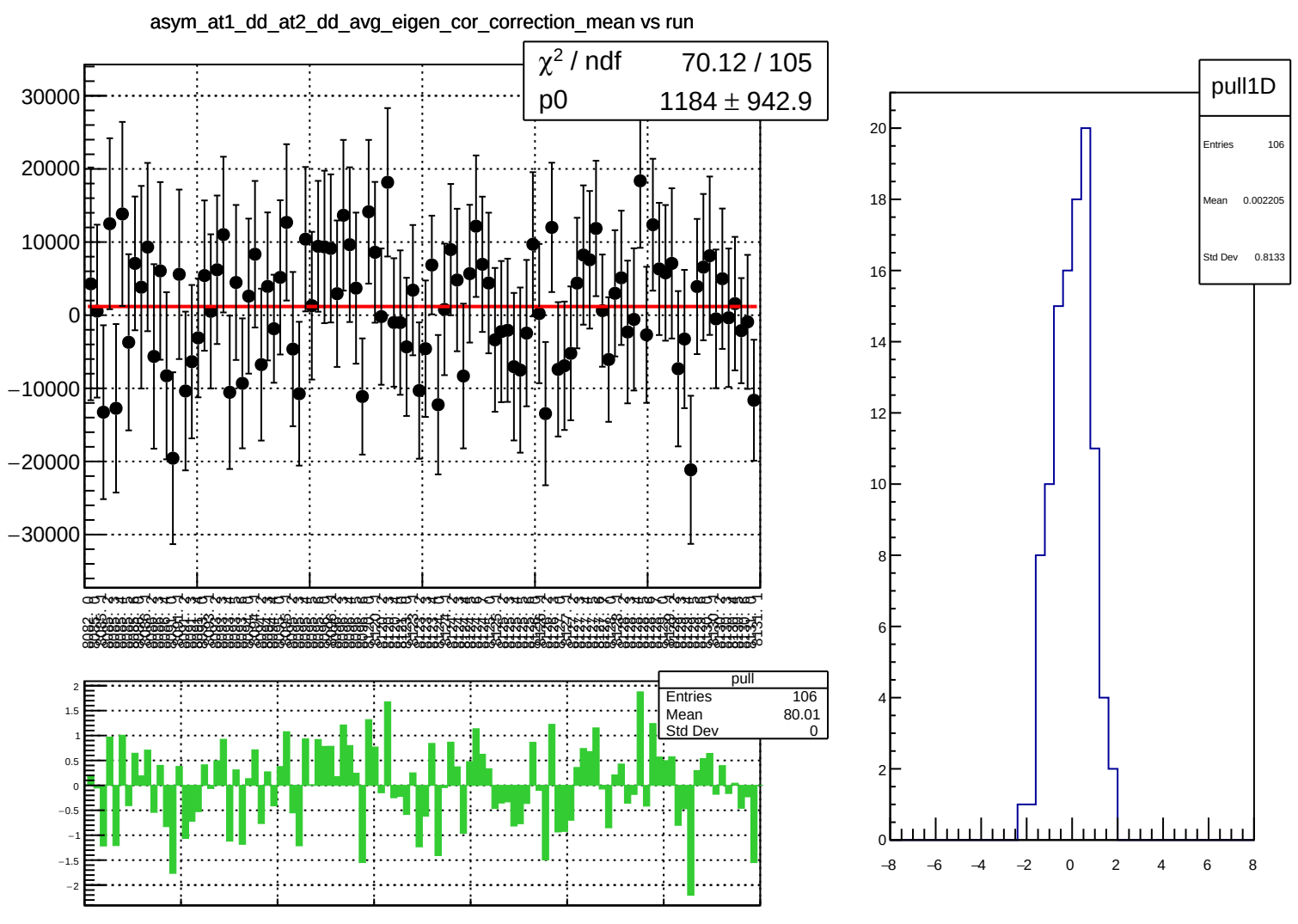

pull1D
Entries 106
Mean 0.002205
Std Dev 0.8133
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

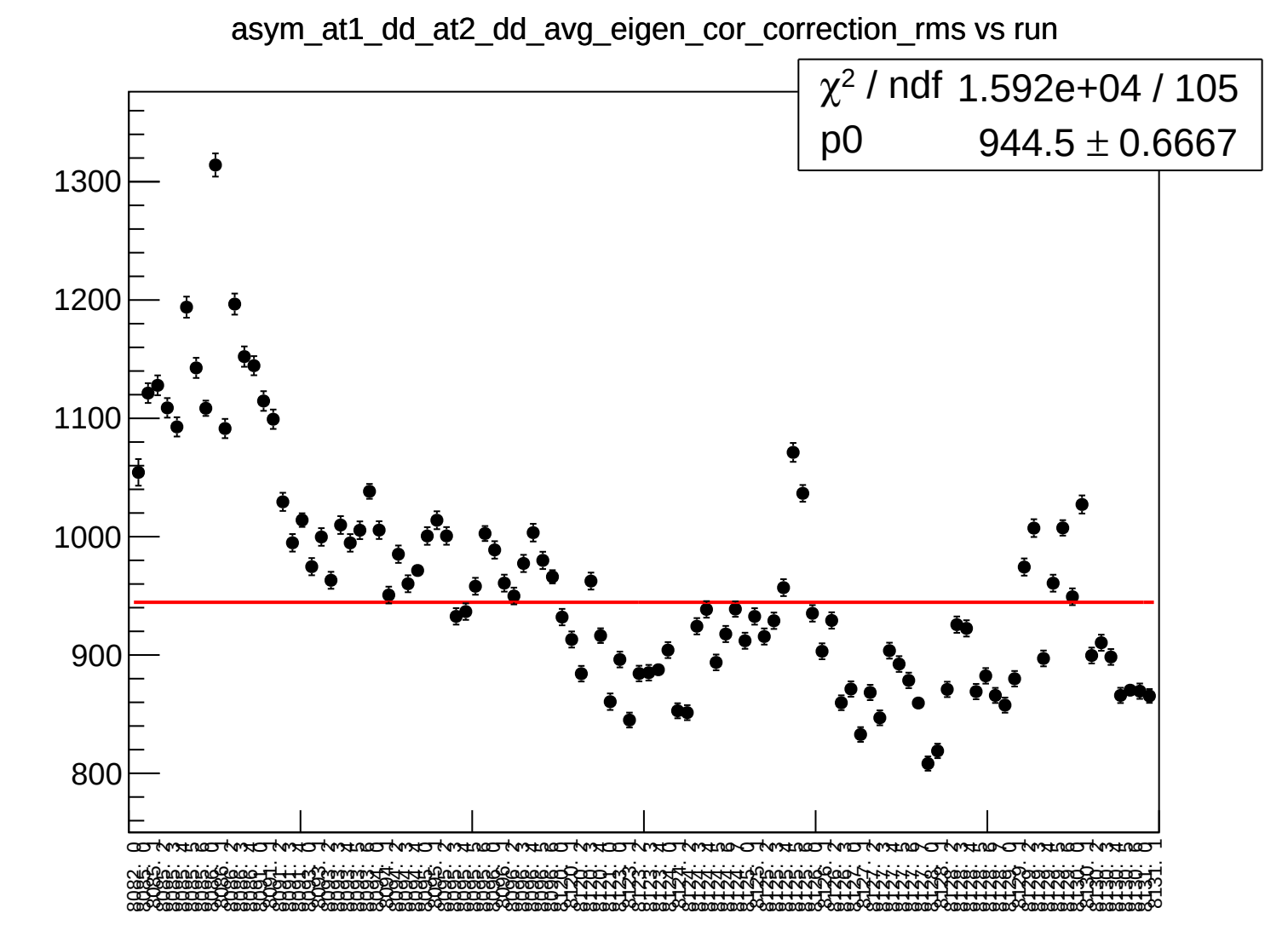

asym_at1_dd_at2_dd_avg_cor_correction_rms vs run
χ² / ndf 1.592e+04 / 105
p0 944.5 ± 0.6667
1300
1200
1100
1000
900
800

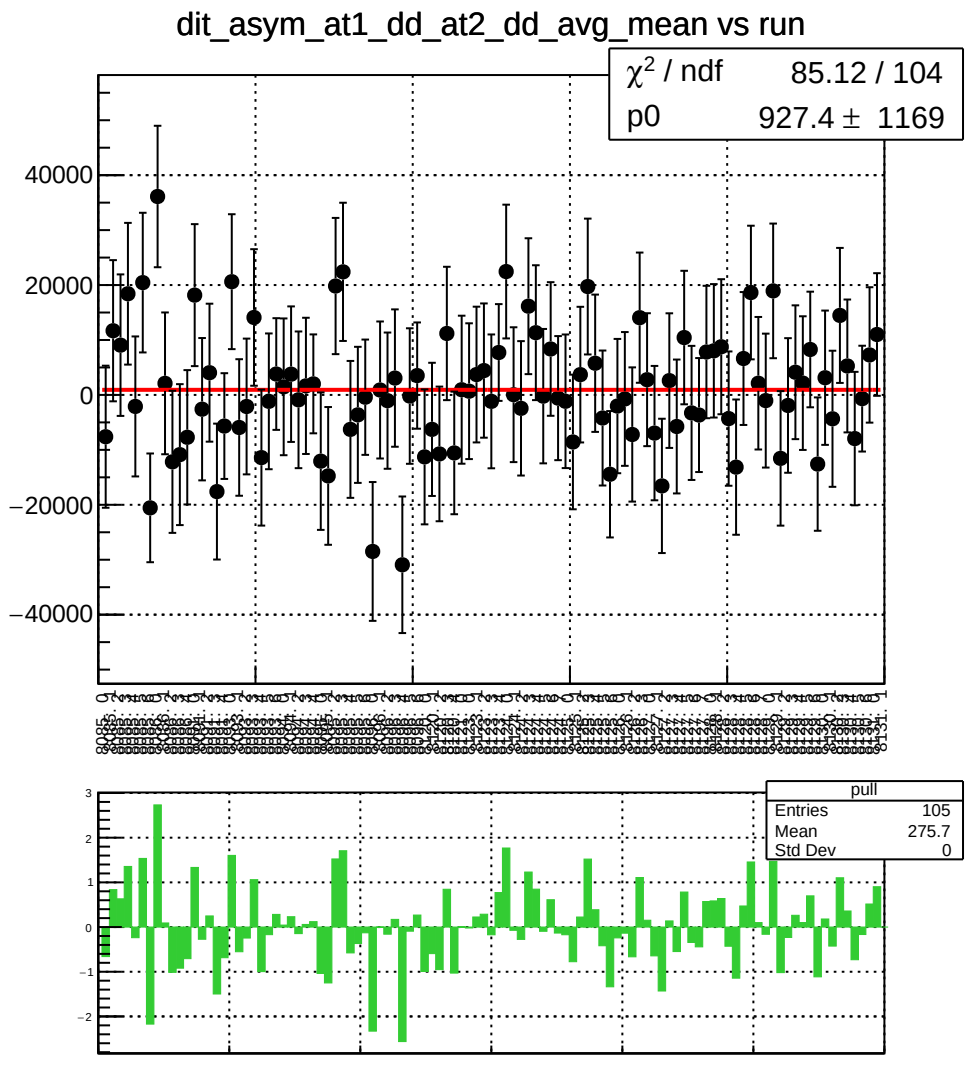

eigen_cor_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 84.58 / 105
p0 806.1 ± 1164
40000
20000
0
−20000
−40000
pull
Entries 106
Mean 806.2
Std Dev 0
3
2
1
0
−1
−2

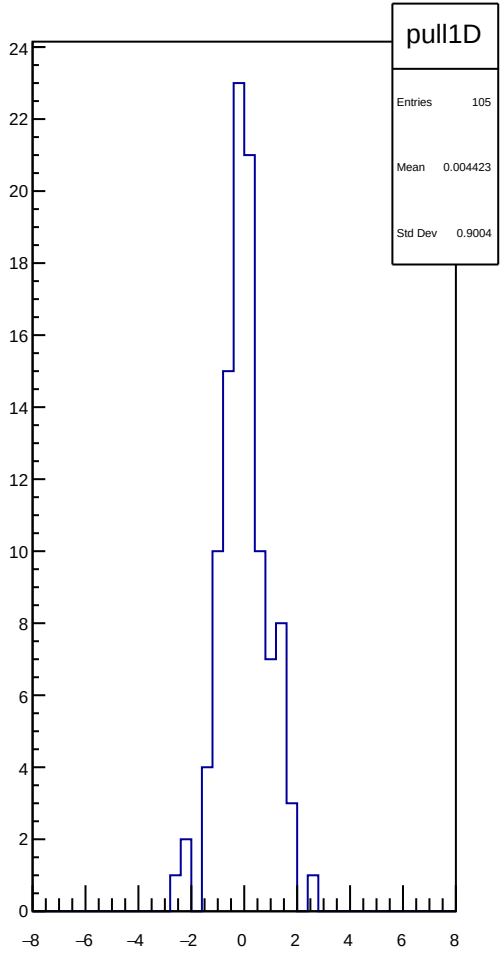

pull1D
Entries 106
Mean 0.001745
Std Dev 0.8933
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

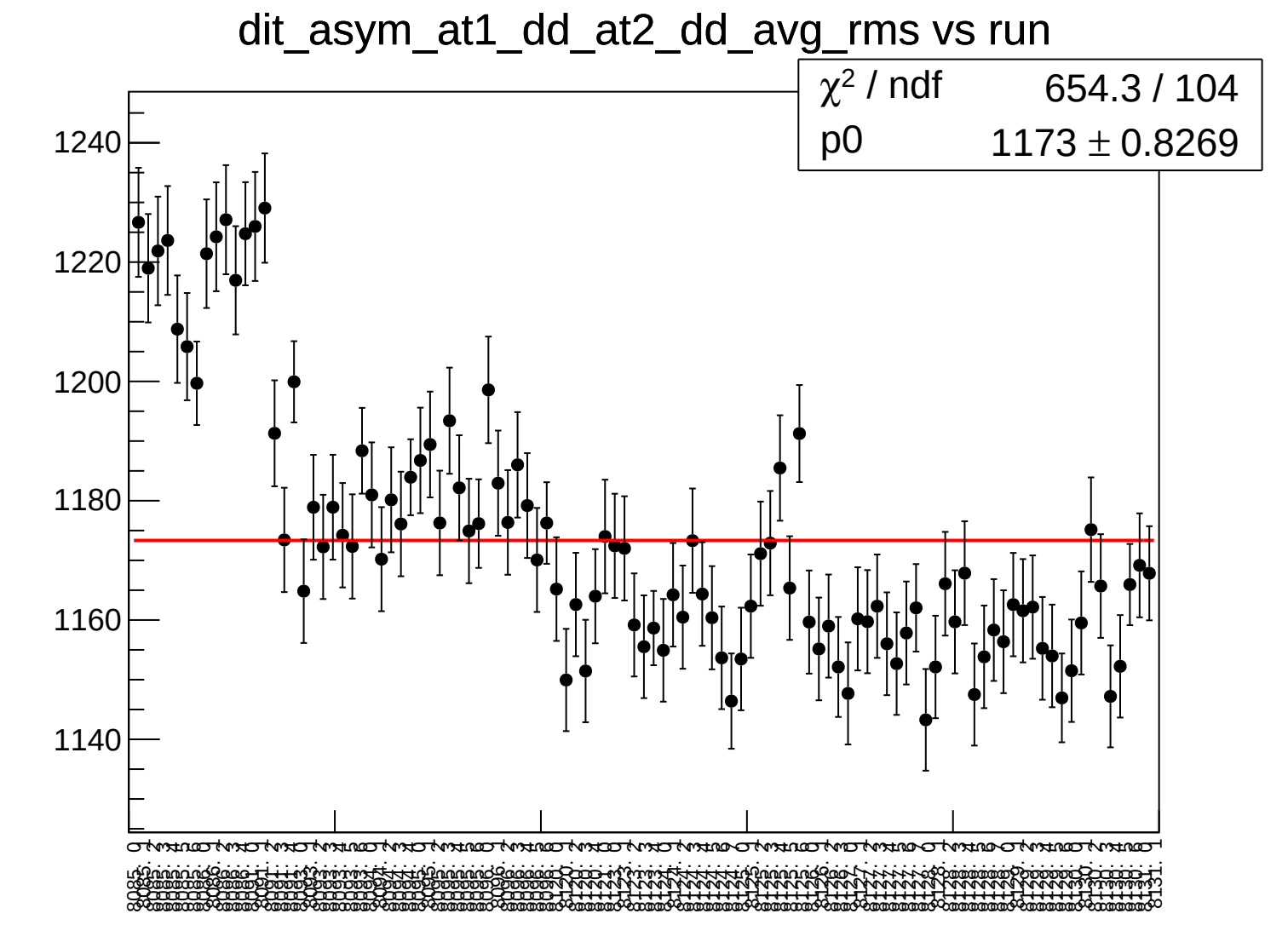

eigen_cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 478.1 / 105
p0 1171 ± 0.8234
1220
1200
1180
1160
1140

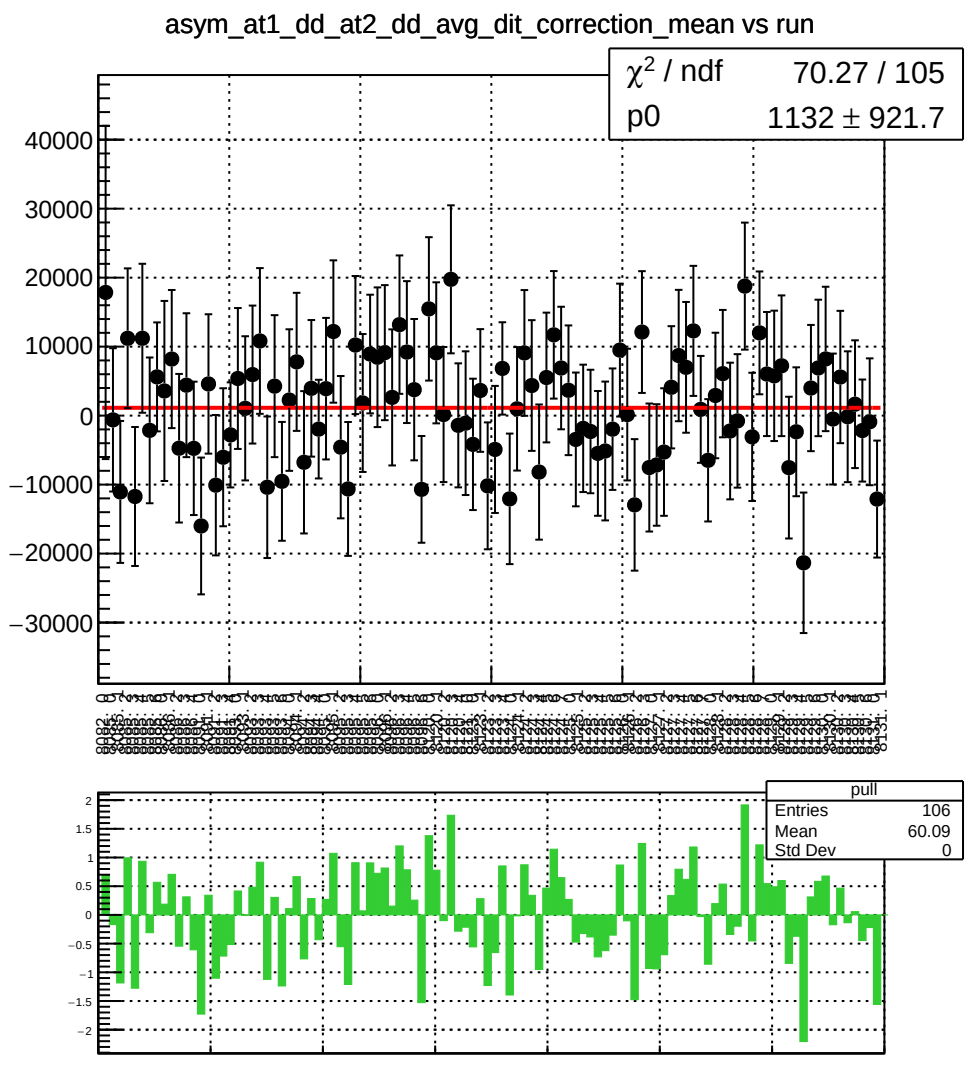

asym_at1_dd_at2_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 70.12 / 105
p0 1184 ± 942.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 106
Mean 80.01
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 106
Mean 0.002205
Std Dev 0.8133
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

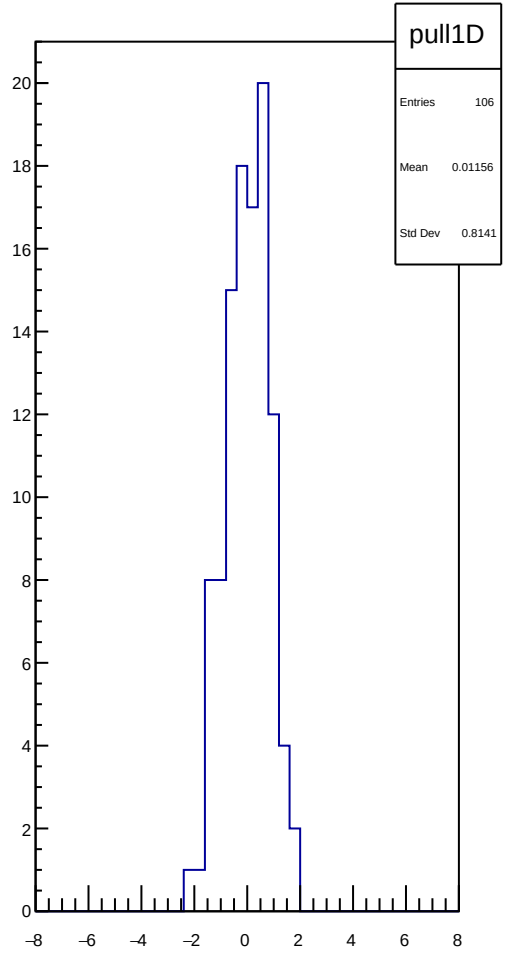

asym_at1_dd_at2_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.592e+04 / 105
p0 944.5 ± 0.6667
1300
1200
1100
1000
900
800

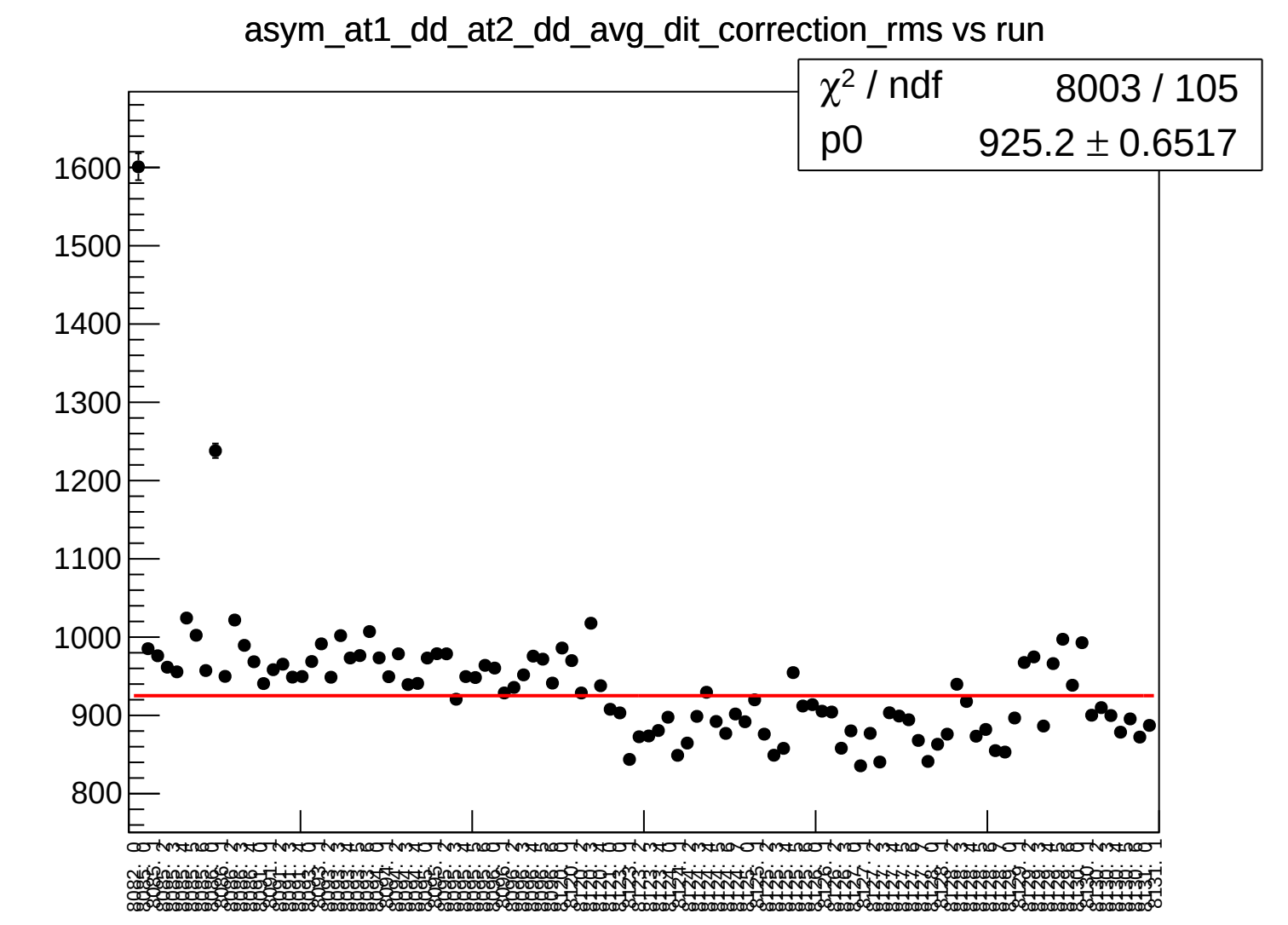

dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 85.12 / 104
p0 927.4 ± 1169
40000
20000
0
−20000
−40000
pull
Entries 105
Mean 275.7
Std Dev 0
3
2
1
0
−1
−2

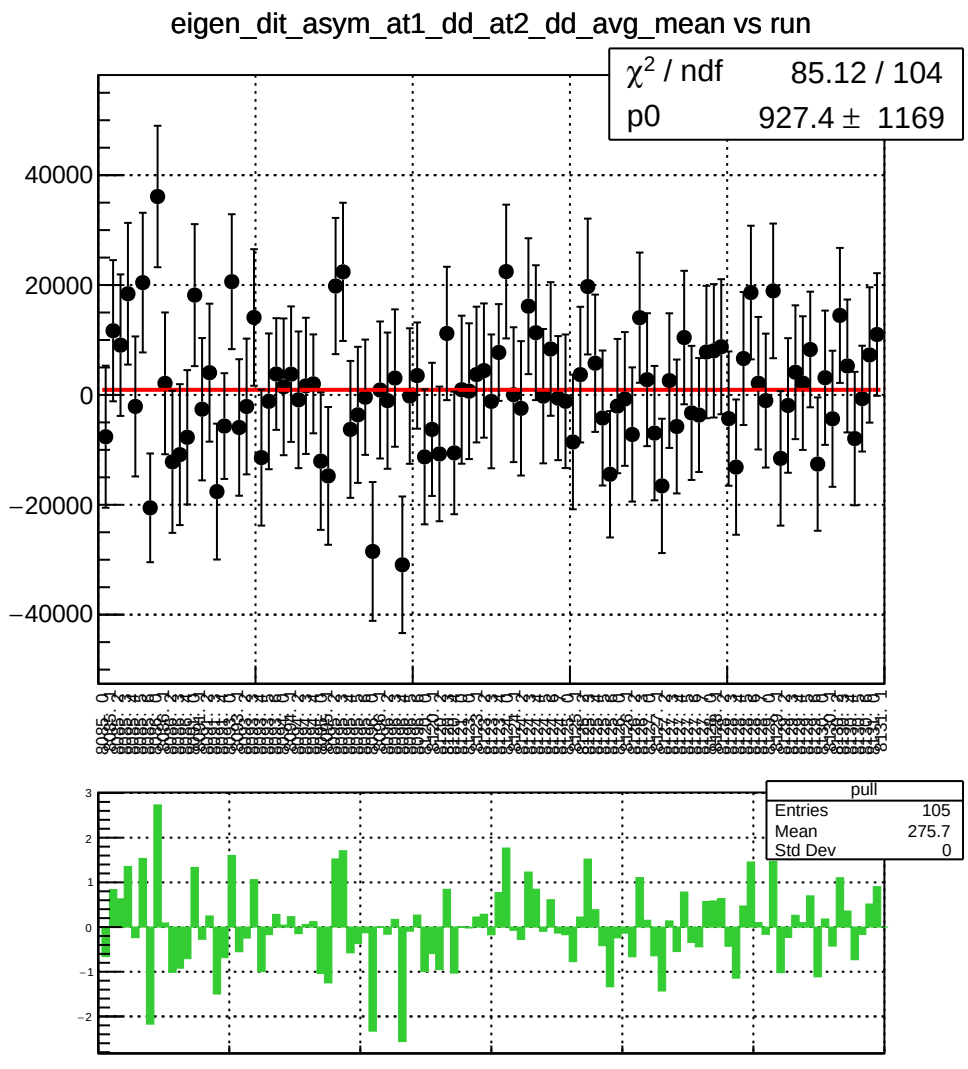

pull1D
Entries 105
Mean 0.004423
Std Dev 0.9004
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

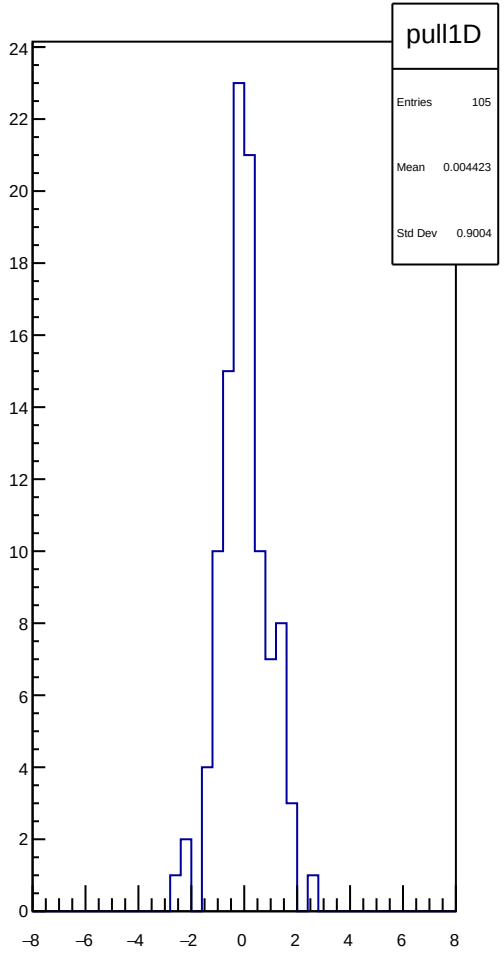

dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 654.3 / 104
p0 1173 ± 0.8269
1240
1220
1200
1180
1160
1140

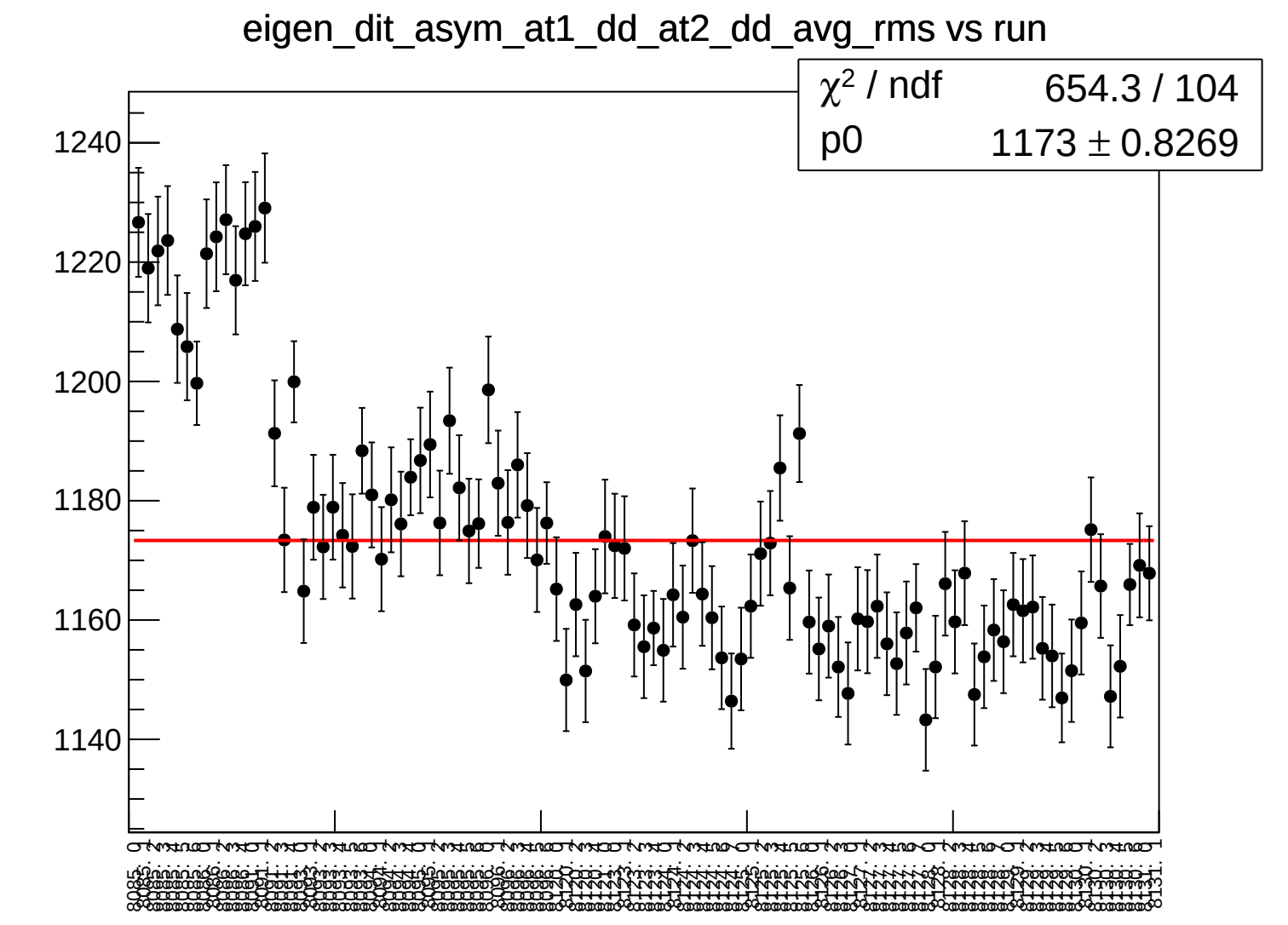

asym_at1_dd_at2_dd_avg_dit_correction_mean vs run
χ² / ndf 70.27 / 105
p0 1132 ± 921.7
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 106
Mean 60.09
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

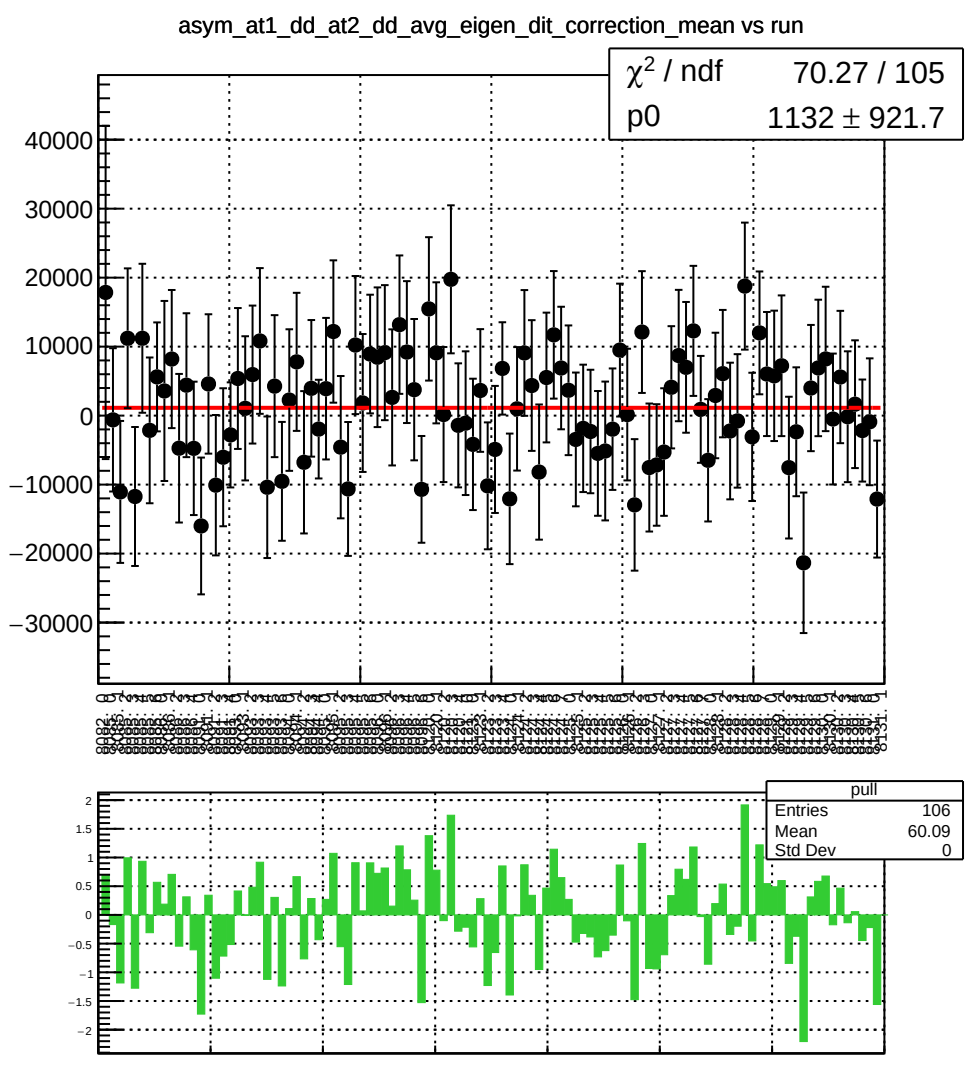

pull1D
Entries 106
Mean 0.01156
Std Dev 0.8141
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

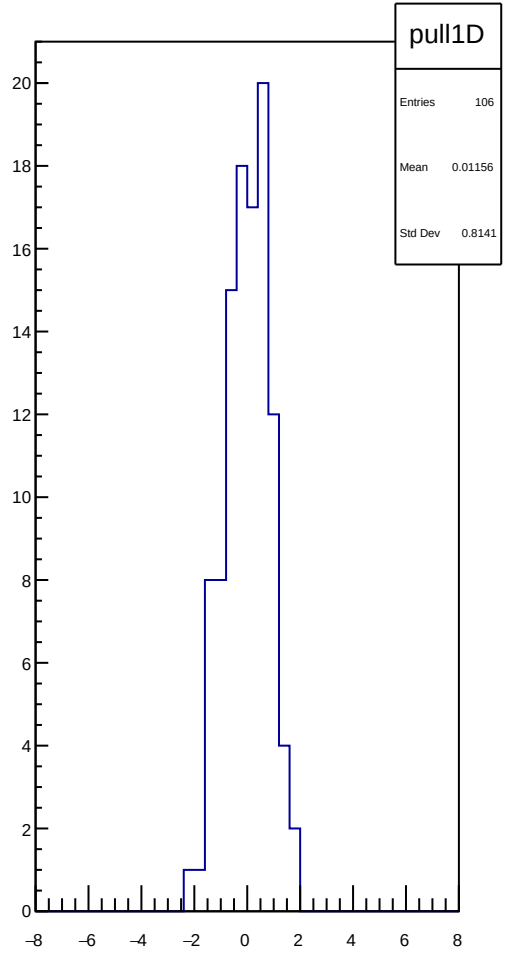

asym_at1_dd_at2_dd_avg_dit_correction_rms vs run
χ² / ndf 8003 / 105
p0 925.2 ± 0.6517
1600
1500
1400
1300
1200
1100
1000
900
800

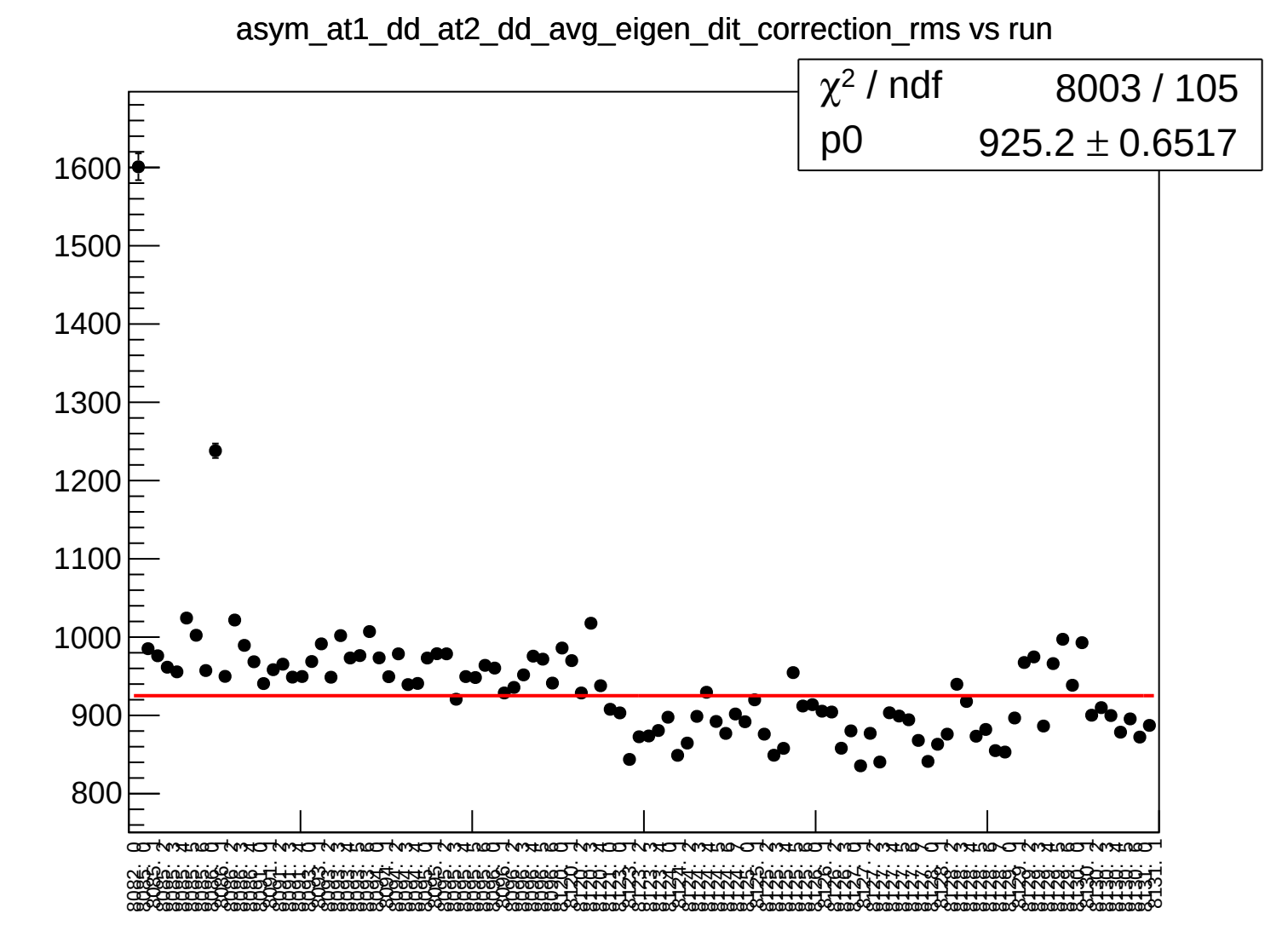

eigen_dit_asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 85.12 / 104
p0 927.4 ± 1169
40000
20000
0
−20000
−40000
pull
Entries 105
Mean 275.7
Std Dev 0
3
2
1
0
−1
−2

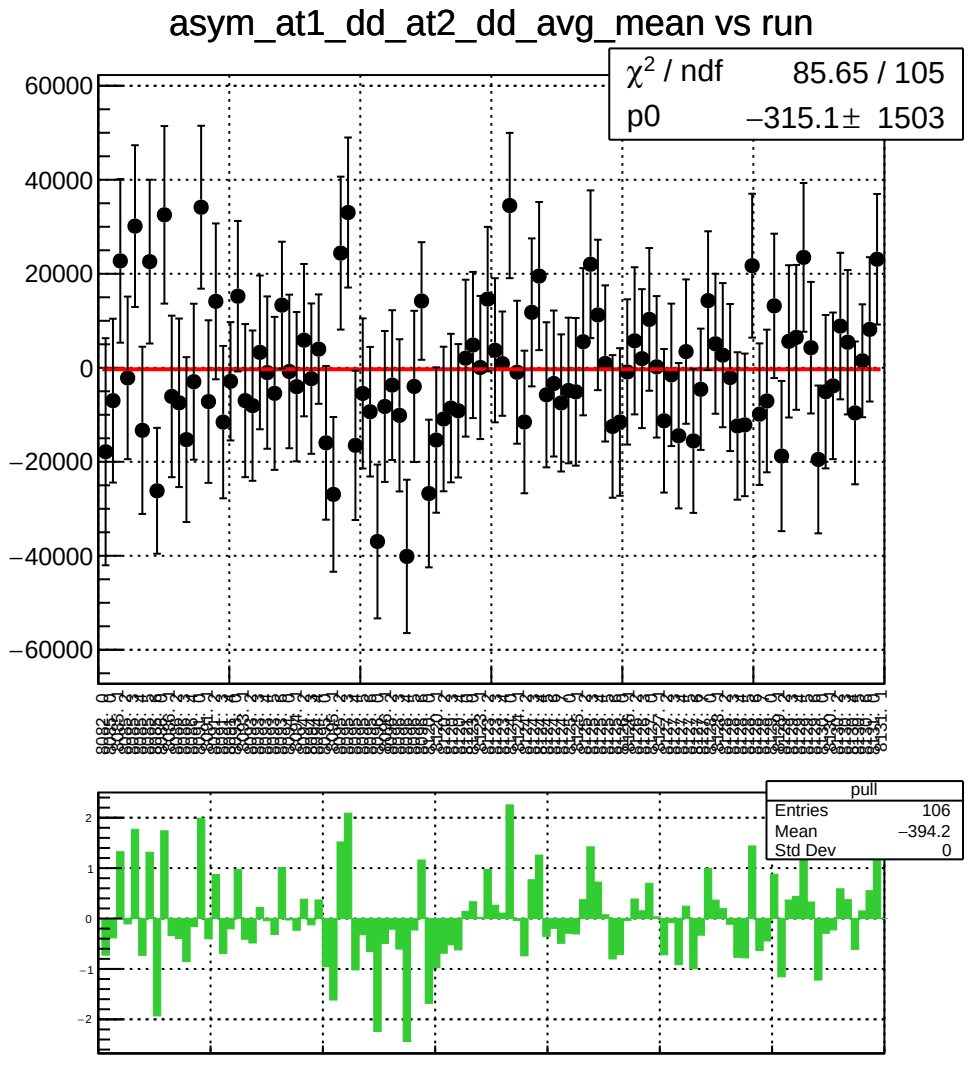

pull1D
Entries 105
Mean 0.004423
Std Dev 0.9004
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

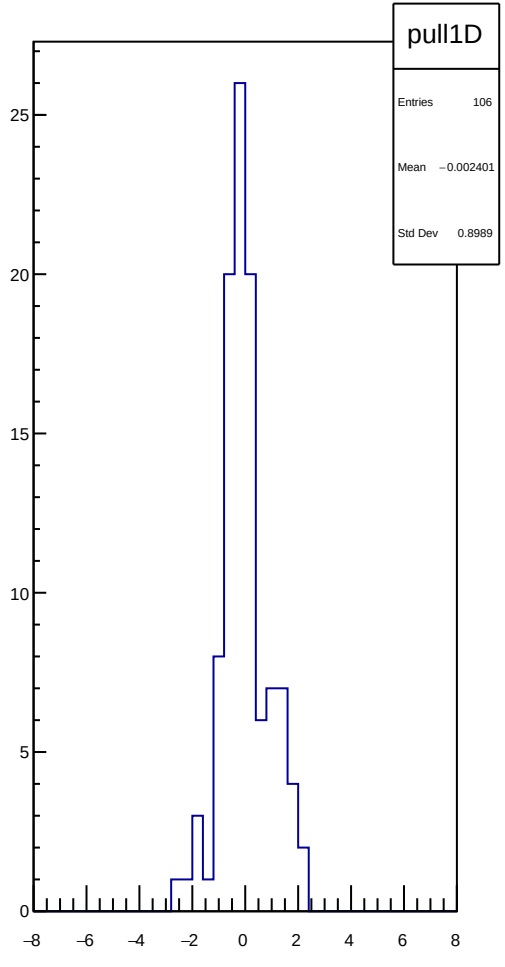

eigen_dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 654.3 / 104
p0 1173 ± 0.8269
1240
1220
1200
1180
1160
1140

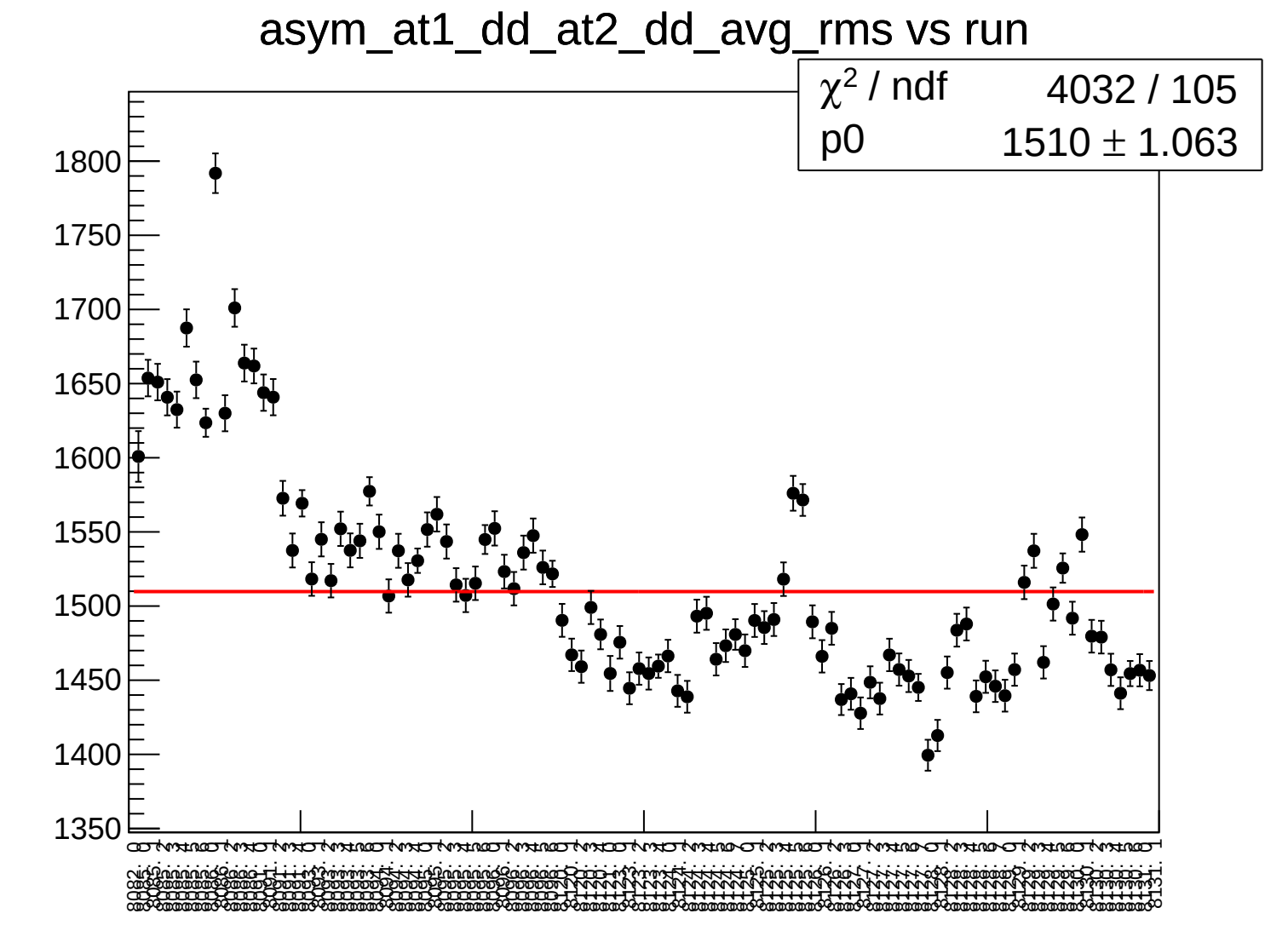

asym_at1_dd_at2_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 70.27 / 105
p0 1132 ± 921.7
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 106
Mean 60.09
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

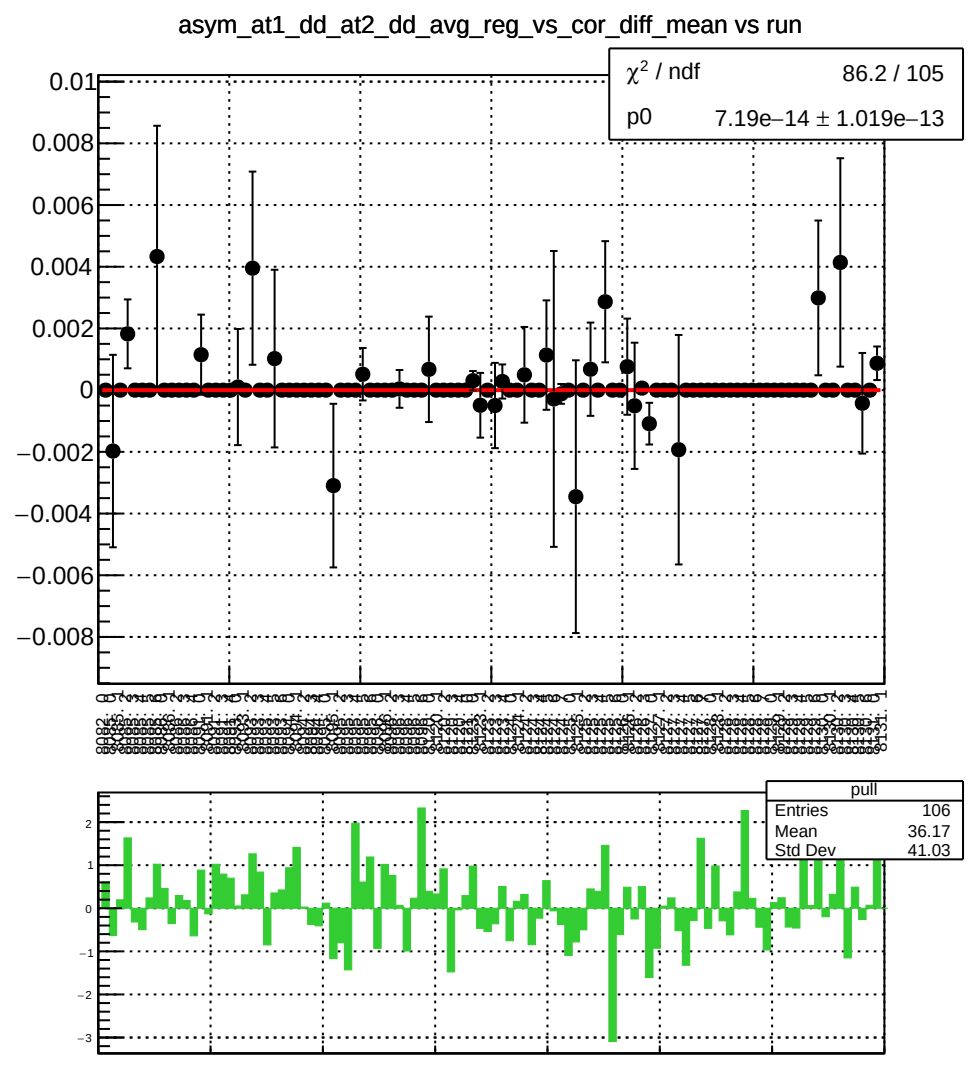

pull1D
Entries 106
Mean 0.01156
Std Dev 0.8141
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

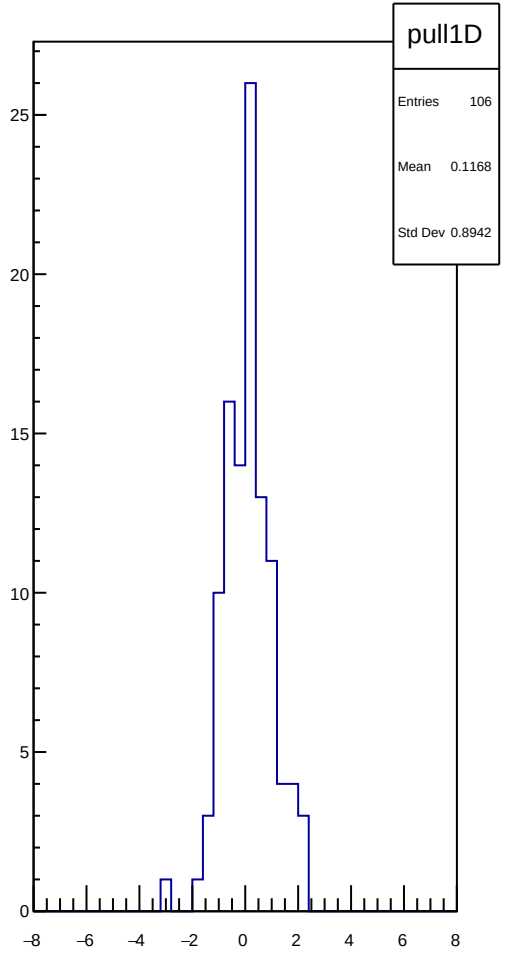

asym_at1_dd_at2_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 8003 / 105
p0 925.2 ± 0.6517
1600
1500
1400
1300
1200
1100
1000
900
800

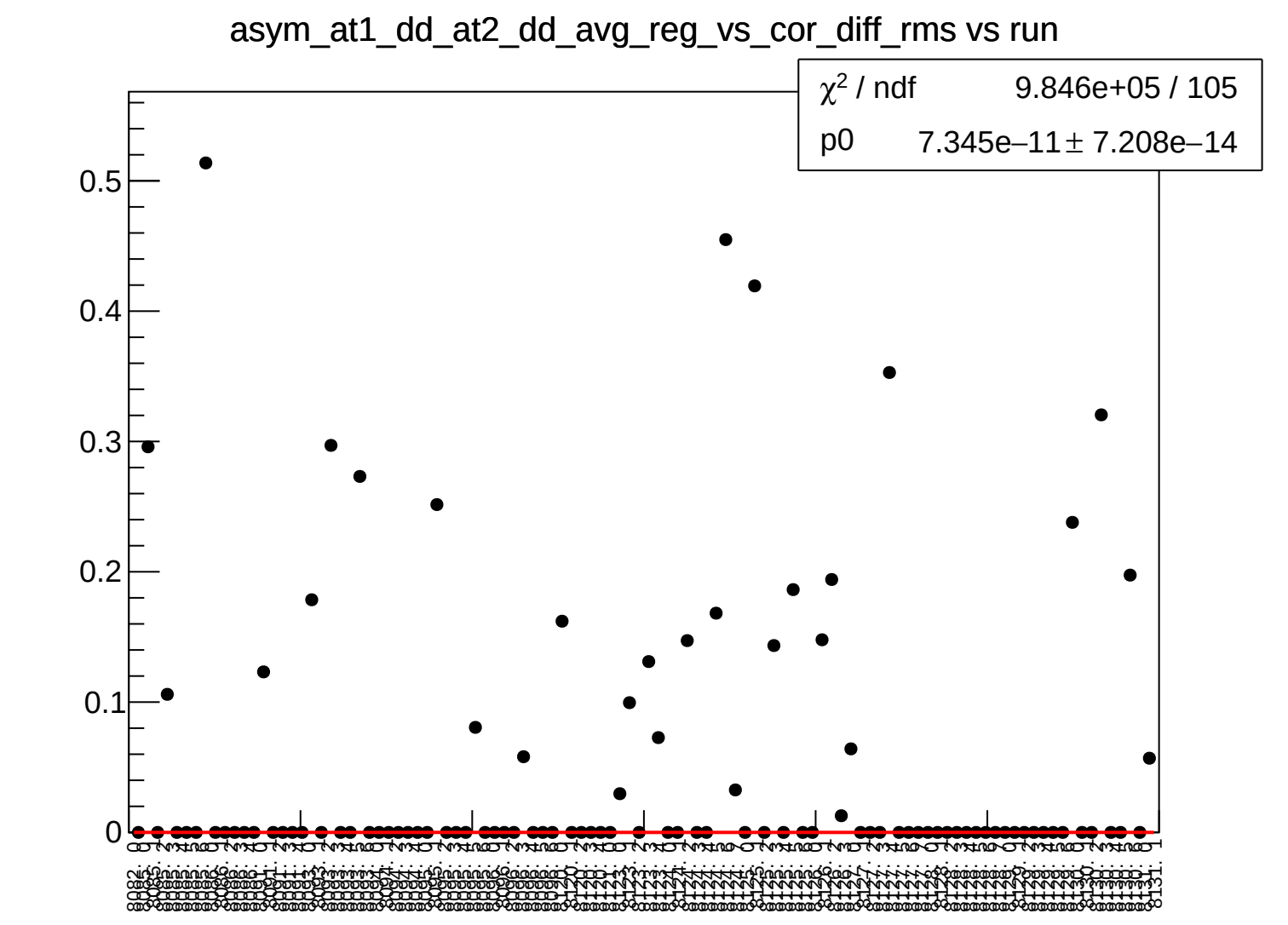

asym_at1_dd_at2_dd_avg_mean vs run
χ² / ndf 85.65 / 105
p0 −315.1± 1503
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean −394.2
Std Dev 0
2
1
0
−1
−2

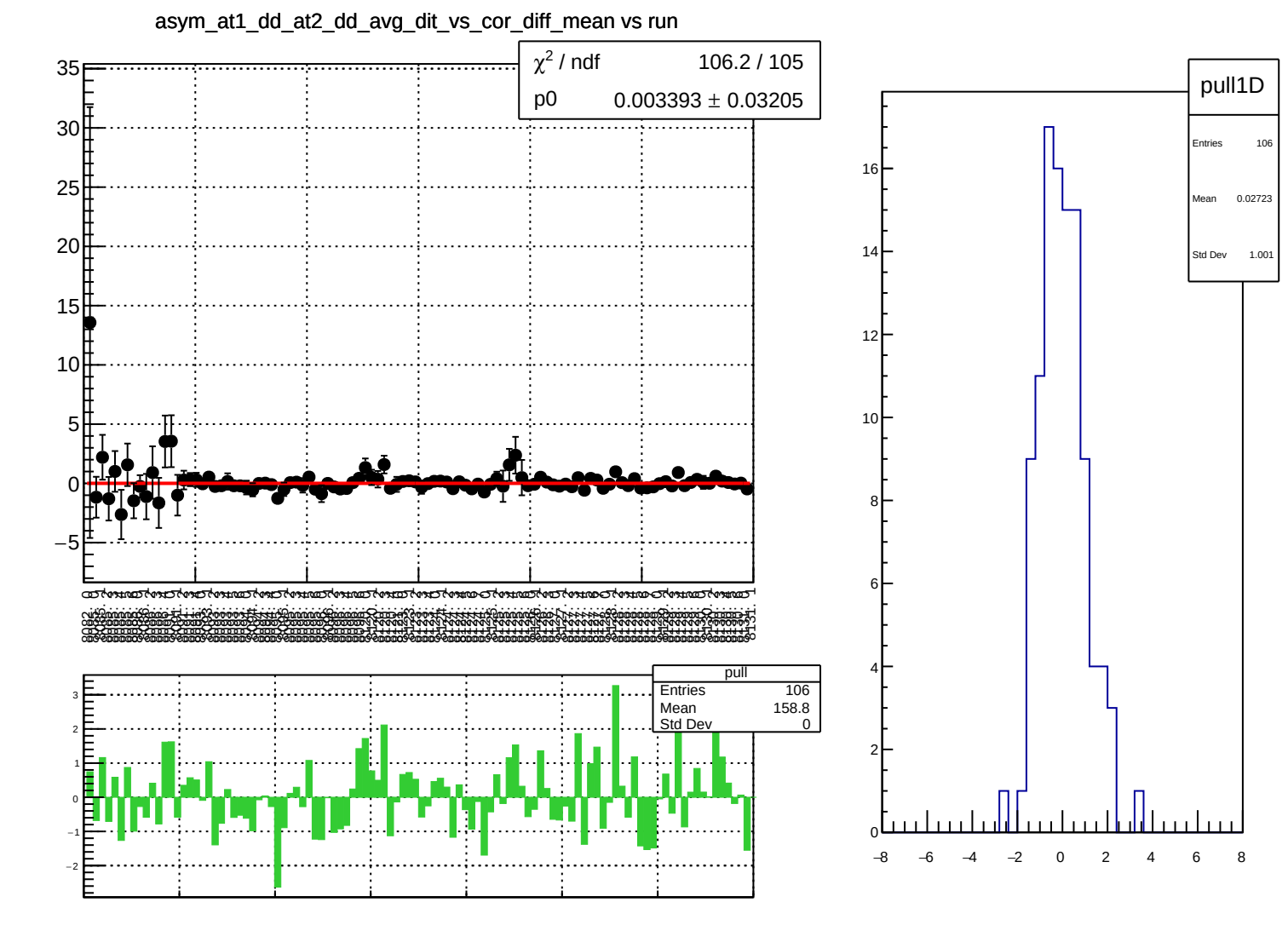

pull1D
Entries 106
Mean −0.002401
Std Dev 0.8989
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

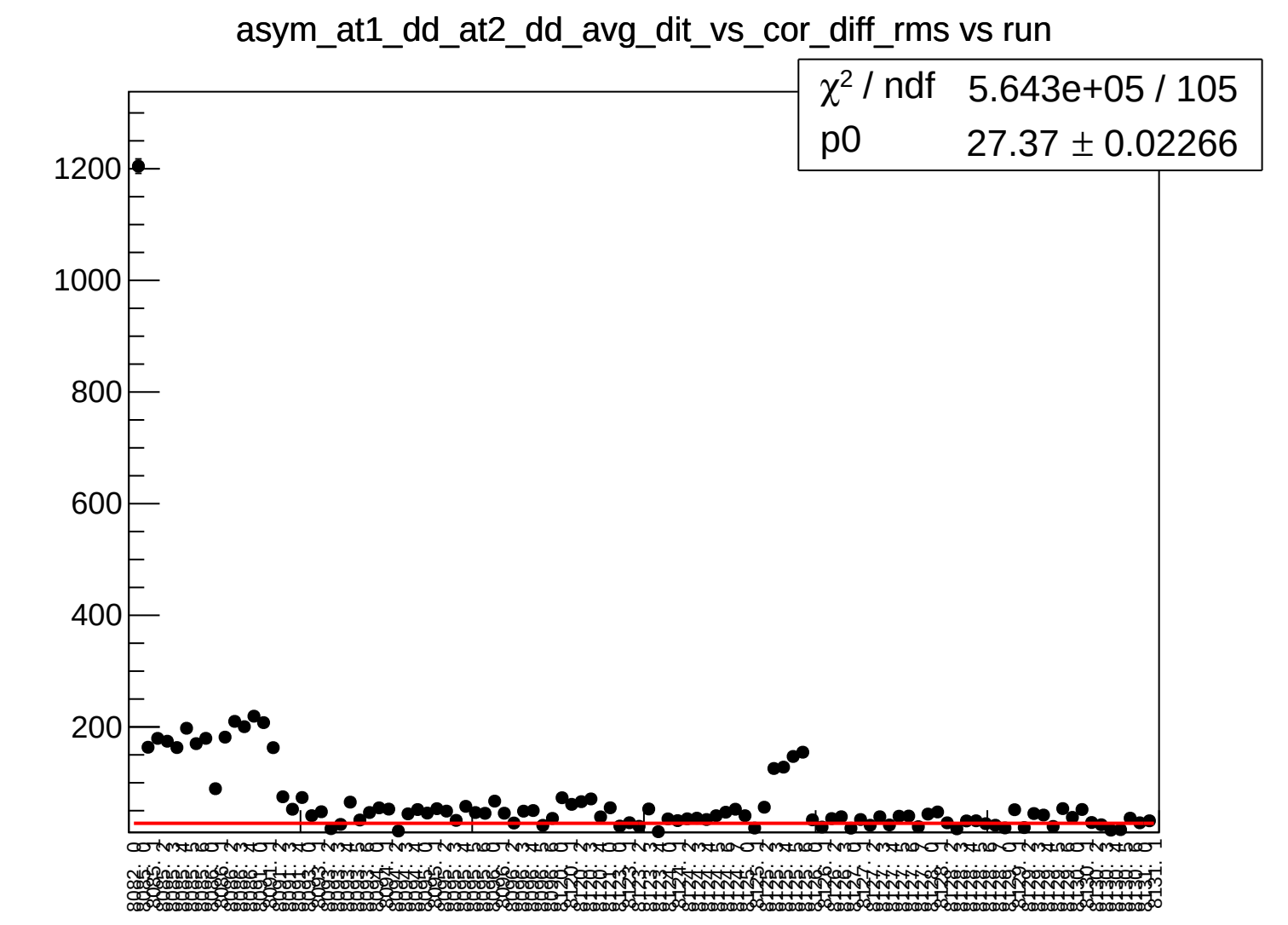

asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 4032 / 105
p0 1510 ± 1.063
1800
1750
1700
1650
1600
1550
1500
1450
1400
1350

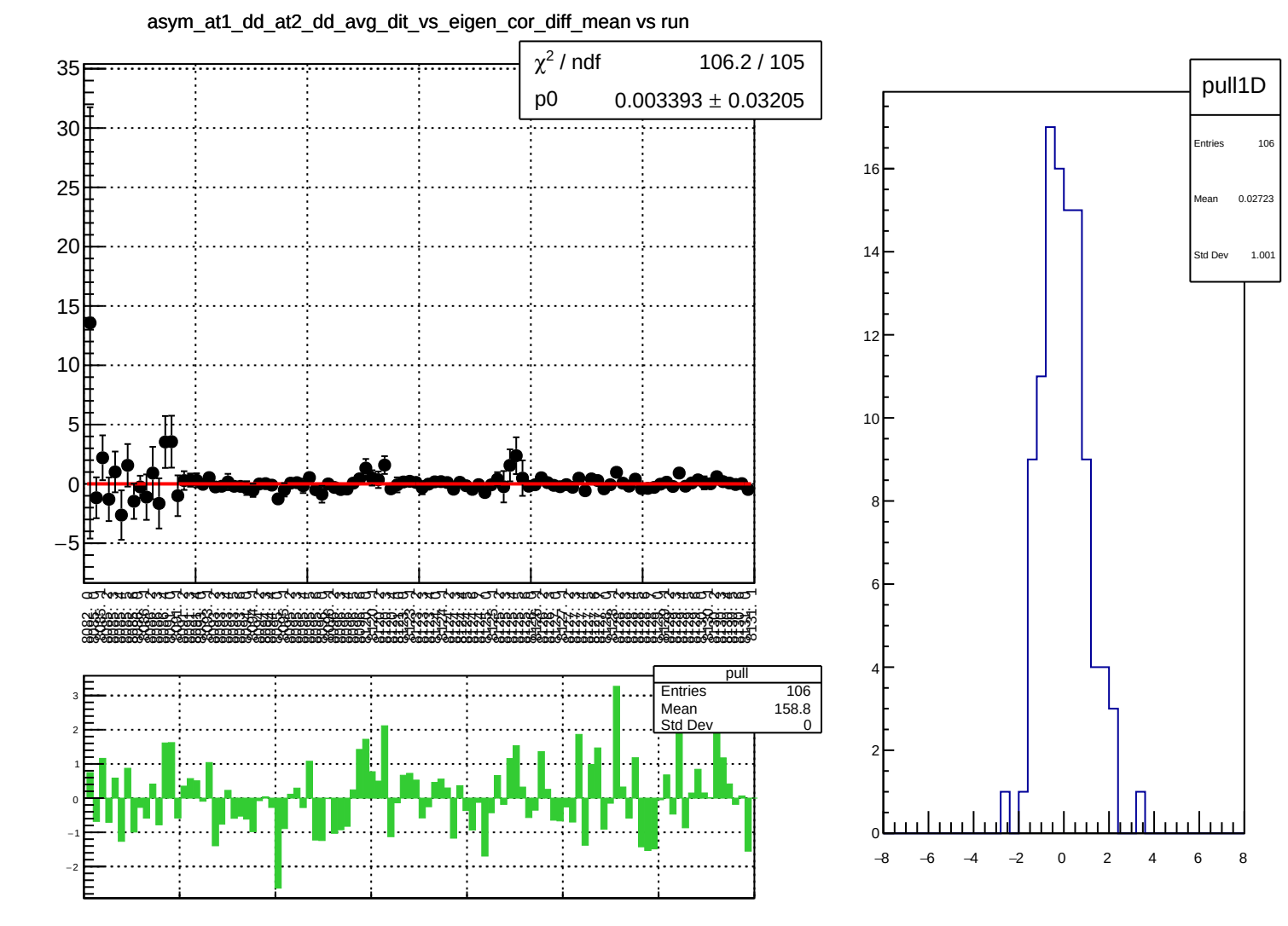

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 86.2 / 105
p0 7.19e−14 ± 1.019e−13
0.01
0.008
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
pull
Entries 106
Mean 36.17
Std Dev 41.03
2
1
0
−1
−2
−3

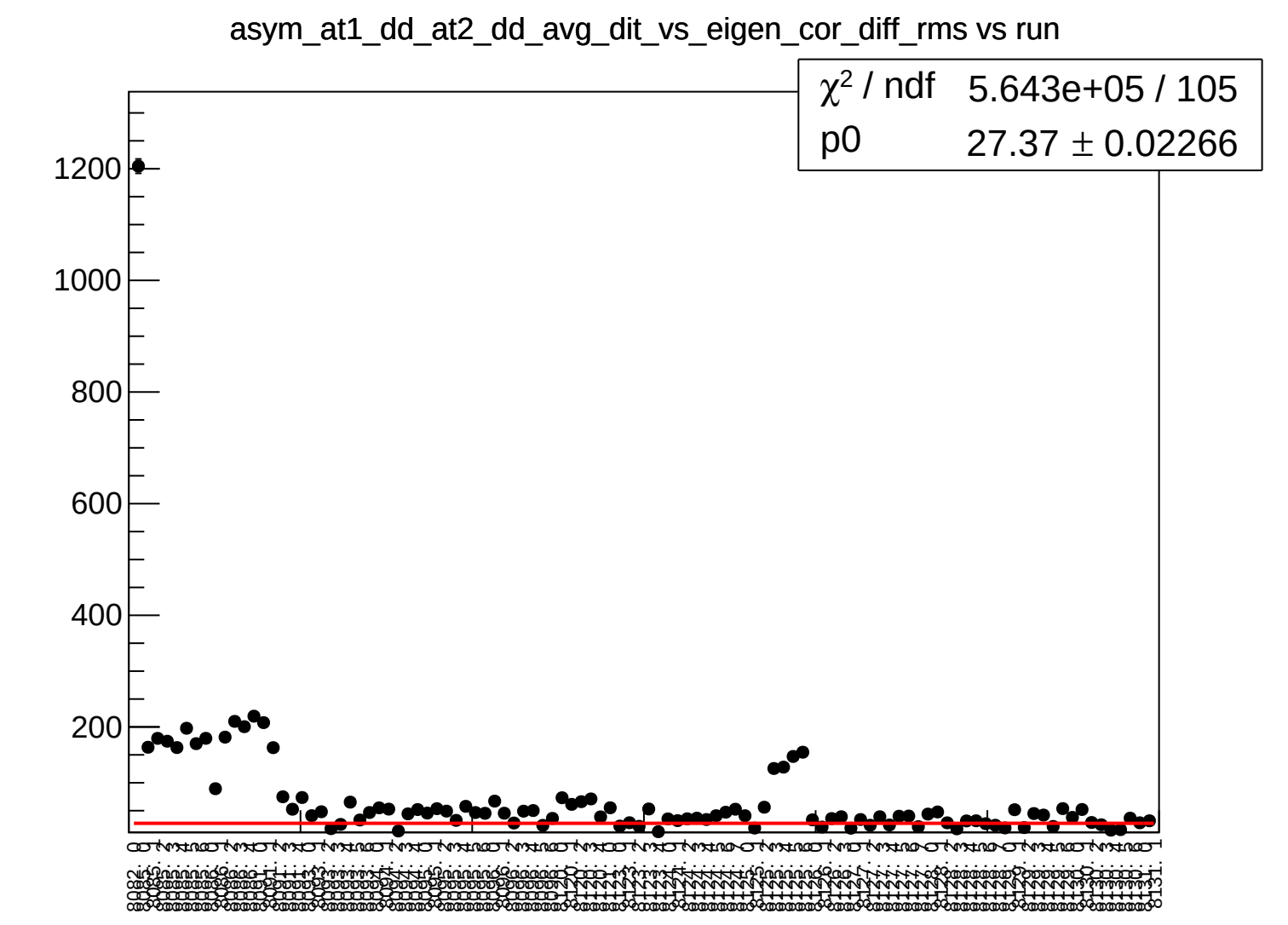

pull1D
Entries 106
Mean 0.1168
Std Dev 0.8942
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

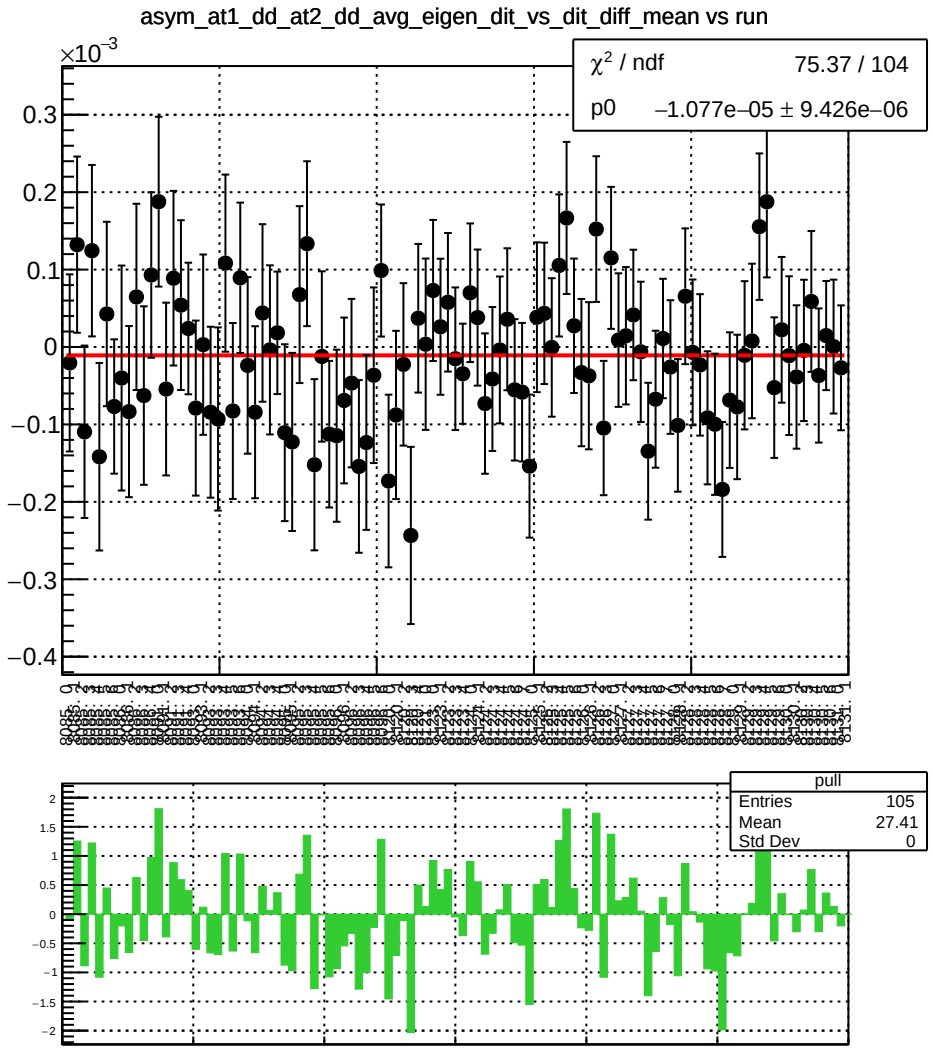

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.846e+05 / 105
p0 7.345e−11 ± 7.208e−14
0.5
0.4
0.3
0.2
0.1
0

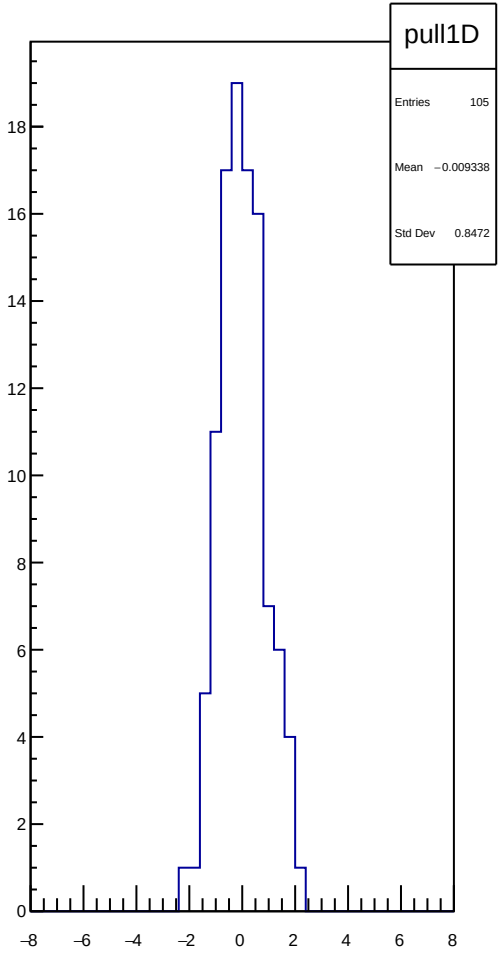

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 106.2 / 105
p0 0.003393 ± 0.03205
pull
Entries 106
Mean 158.8
Std Dev 0
pull1D
Entries 106
Mean 0.02723
Std Dev 1.001

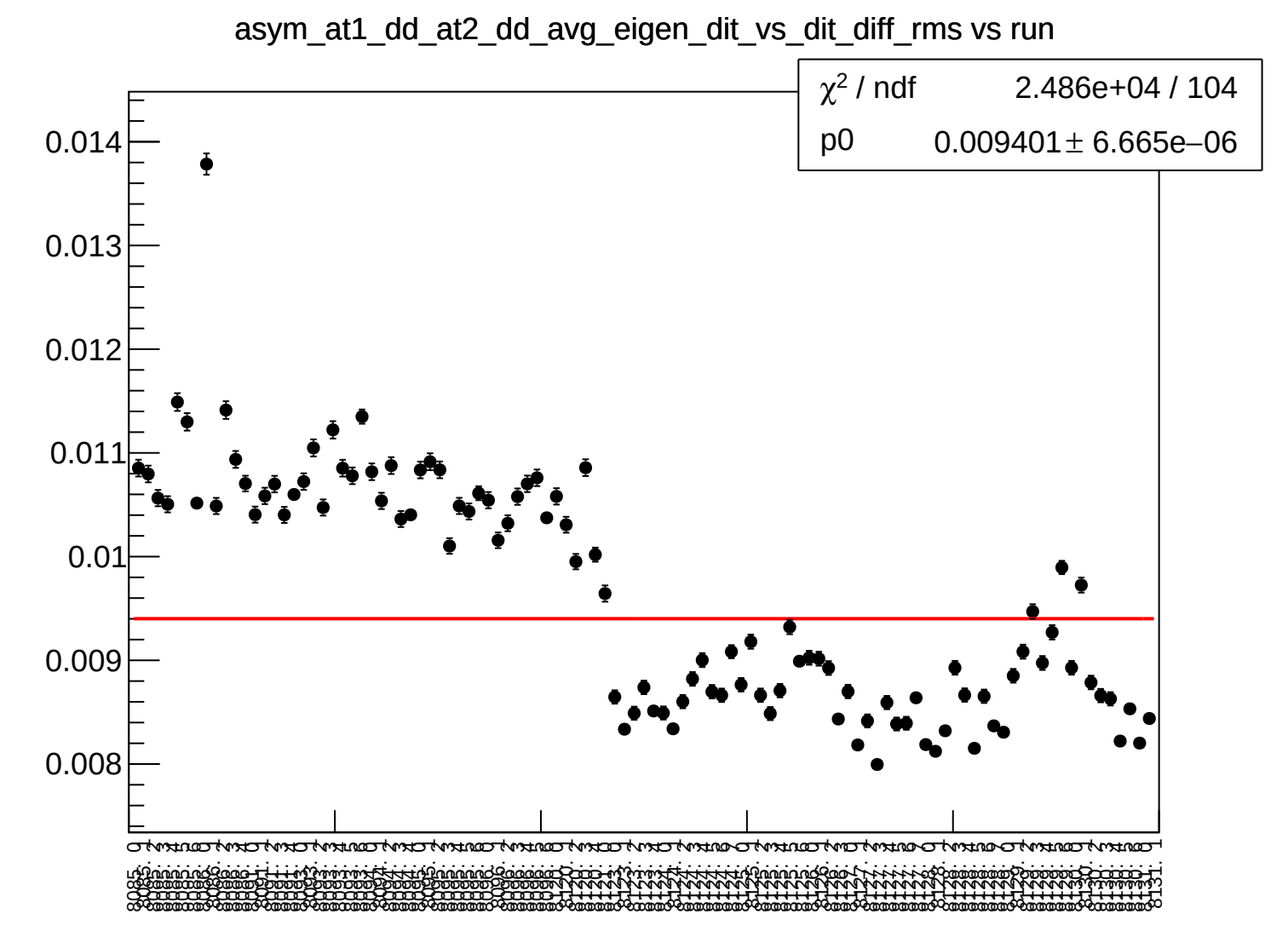

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.643e+05 / 105
p0 27.37 ± 0.02266
1200
1000
800
600
400
200

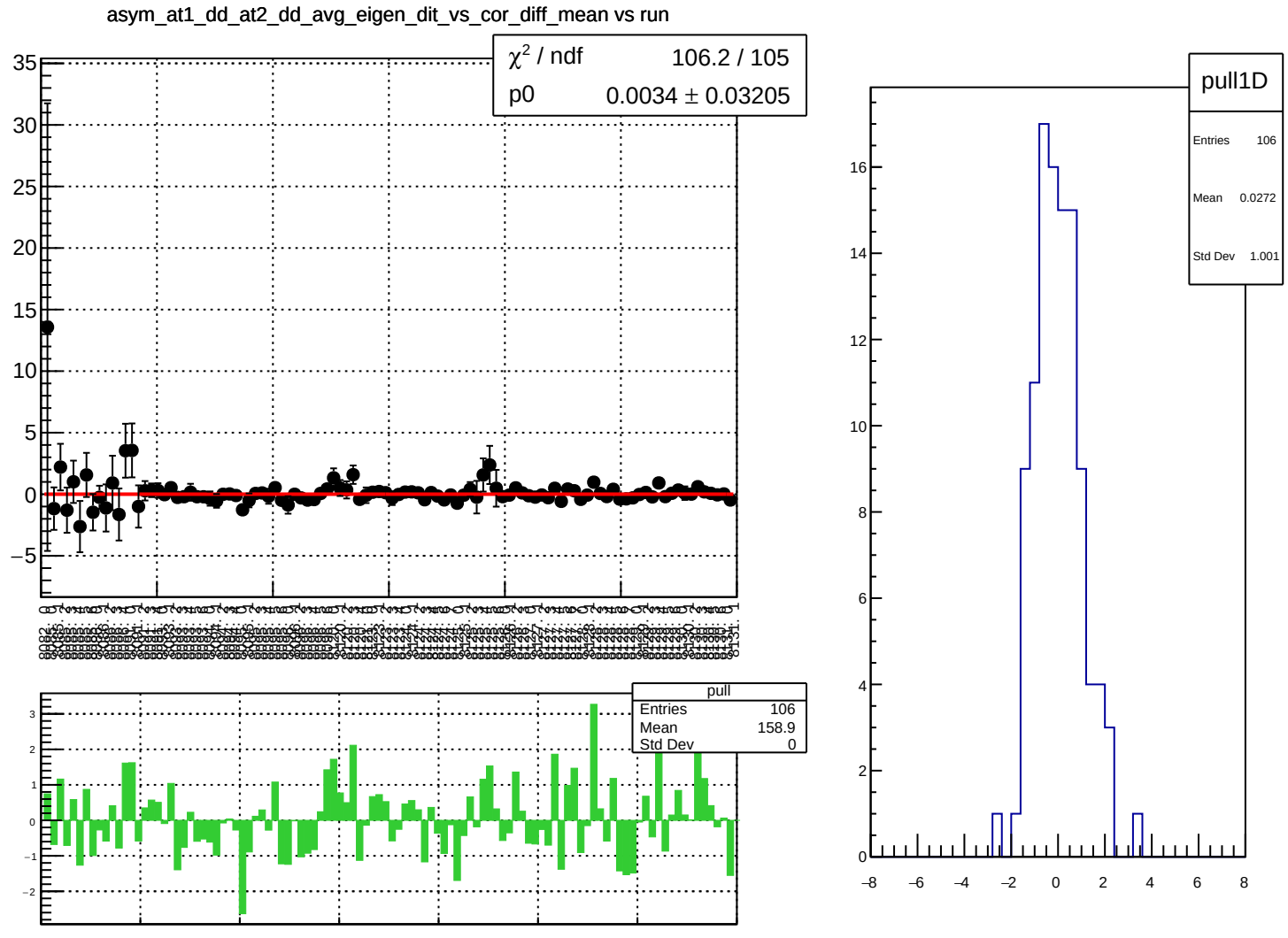

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.2 / 105
p0 0.003393 ± 0.03205
pull
Entries 106
Mean 158.8
Std Dev 0
pull1D
Entries 106
Mean 0.02723
Std Dev 1.001

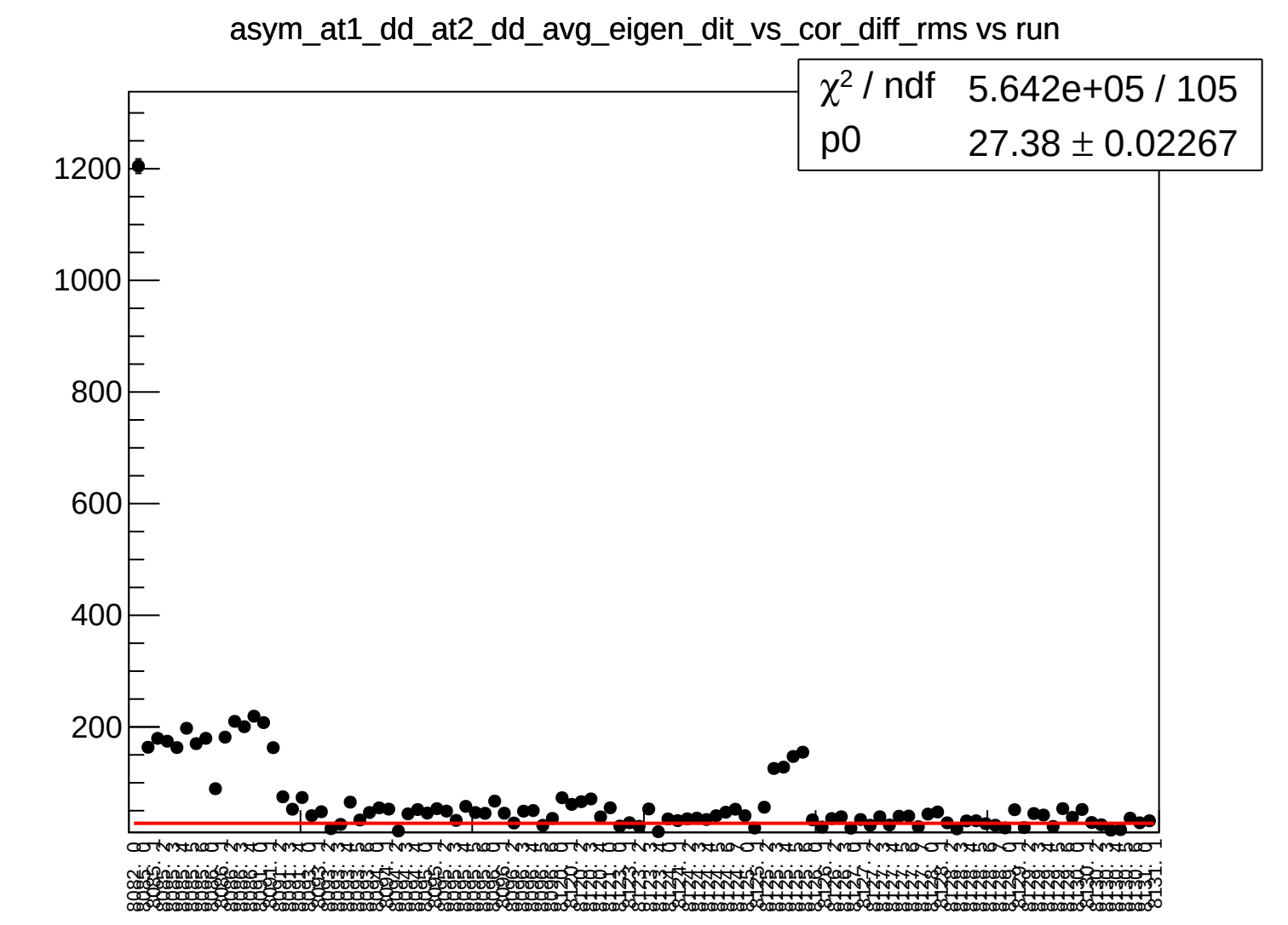

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.643e+05 / 105
p0 27.37 ± 0.02266
1200
1000
800
600
400
200

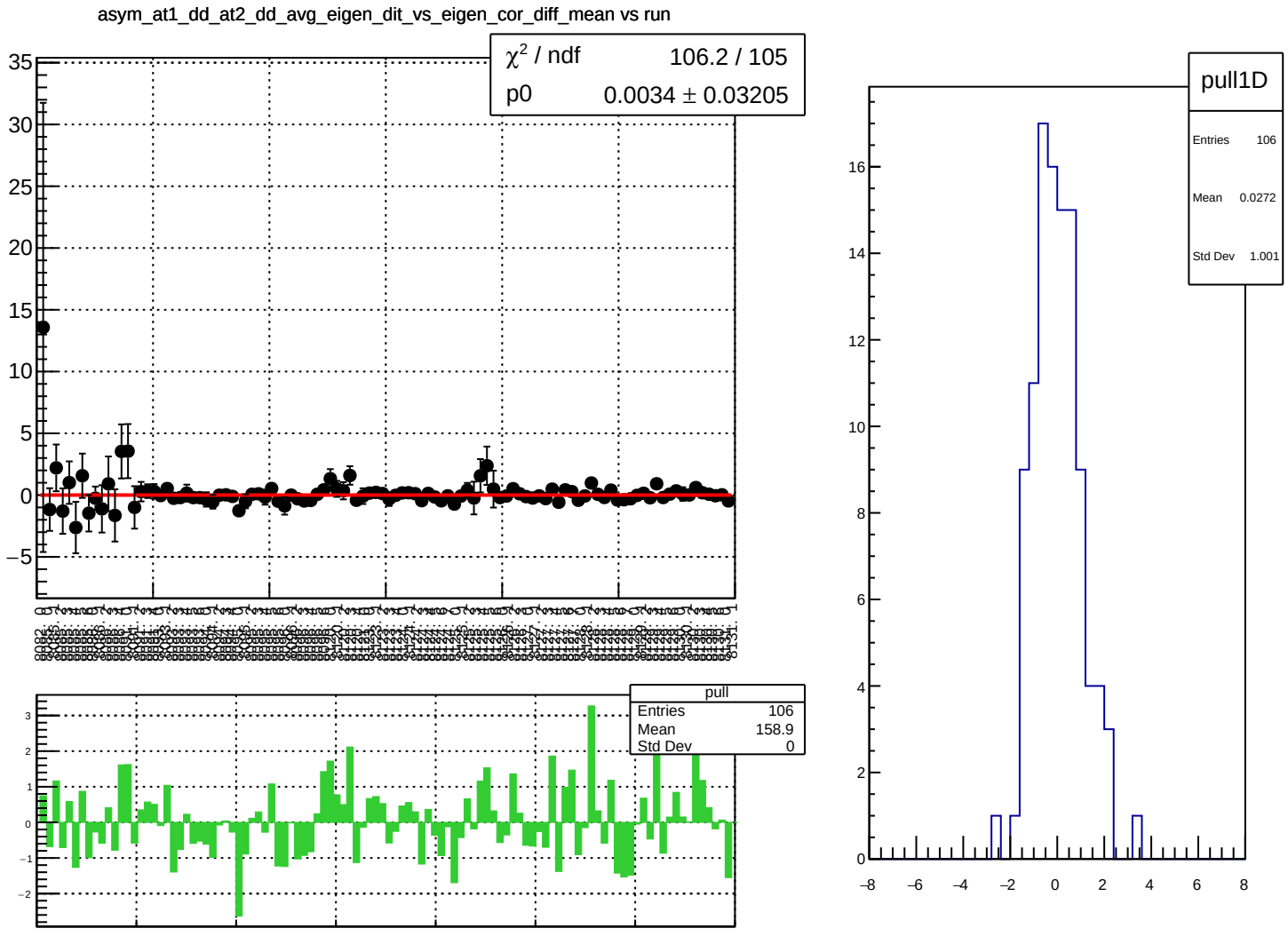

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 75.37 / 104
p0 −1.077e−05 ± 9.426e−06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull
Entries 105
Mean 27.41
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

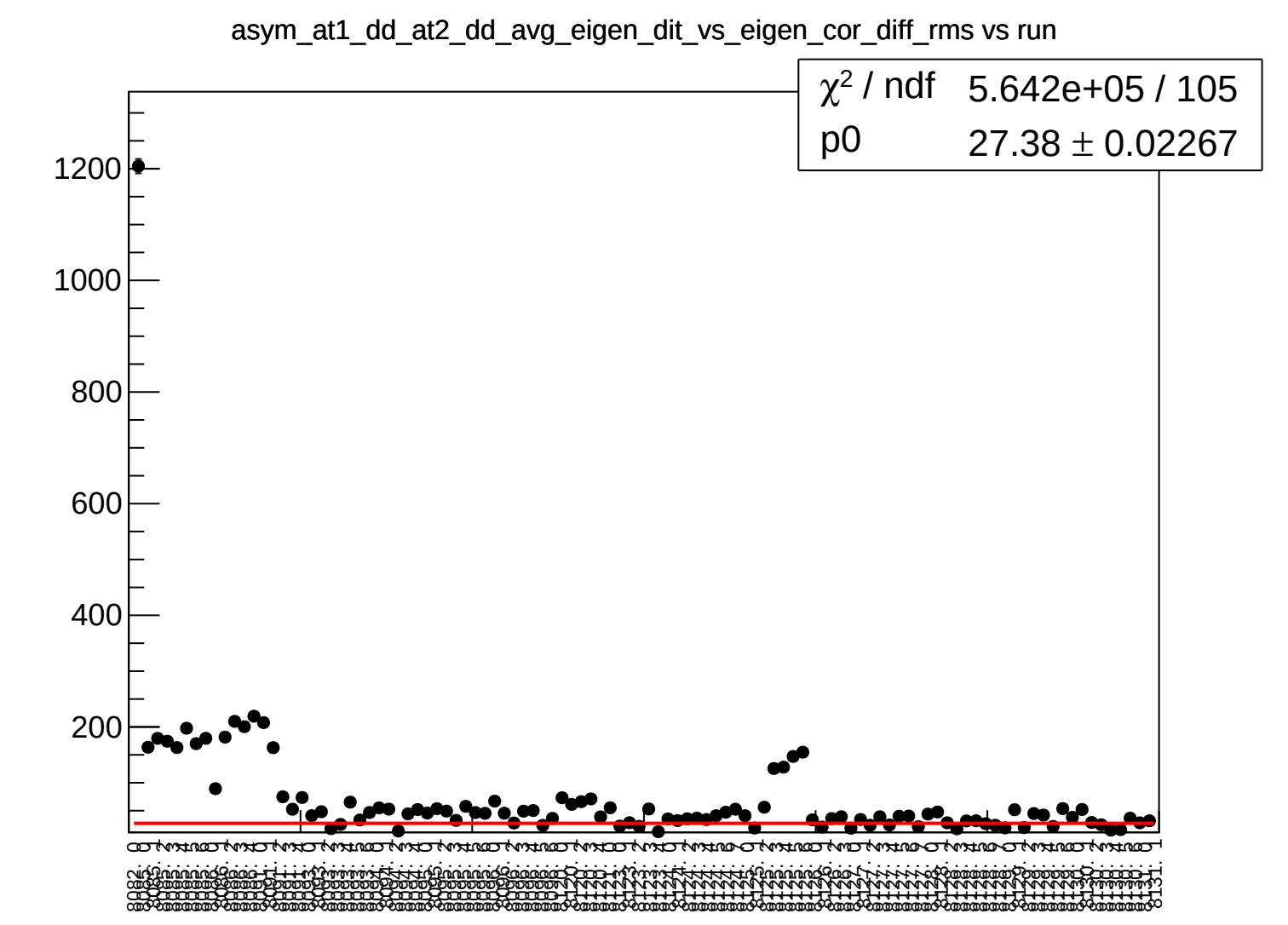

pull1D
Entries 105
Mean −0.009338
Std Dev 0.8472
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

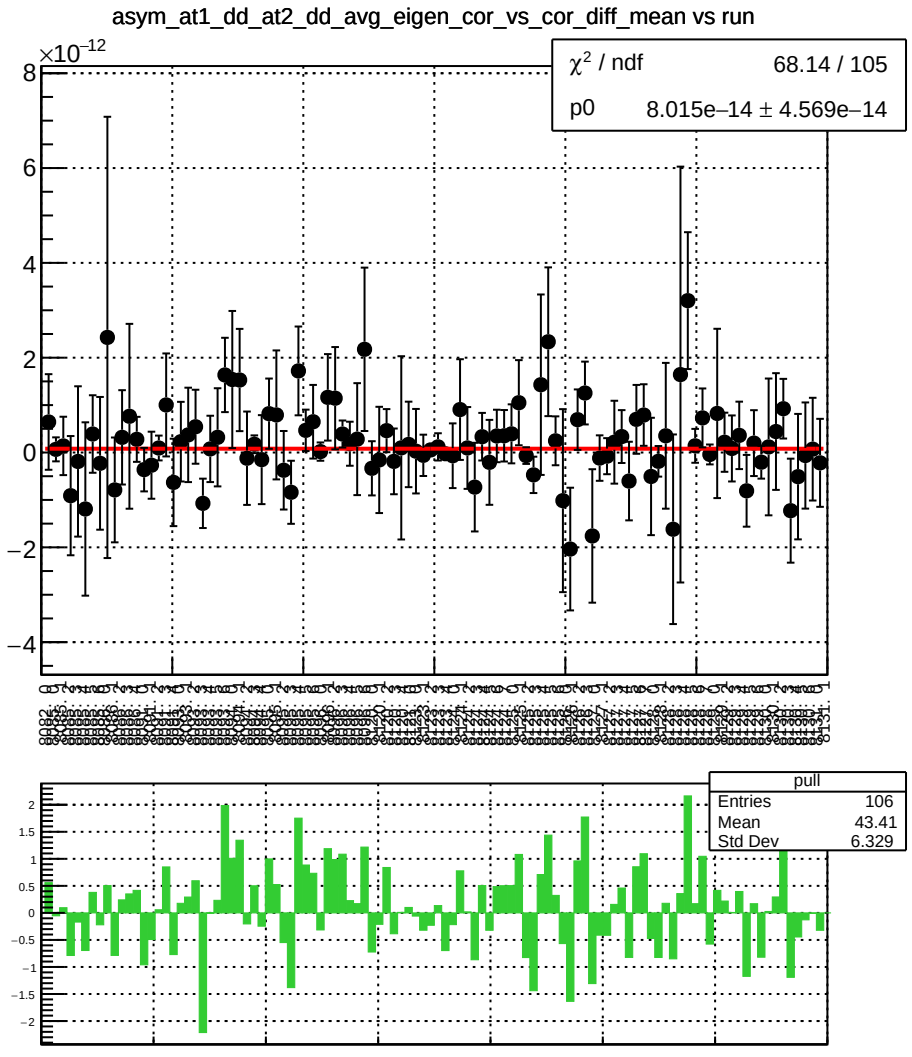

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.486e+04 / 104
p0 0.009401 ± 6.665e−06
0.014
0.013
0.012
0.011
0.01
0.009
0.008

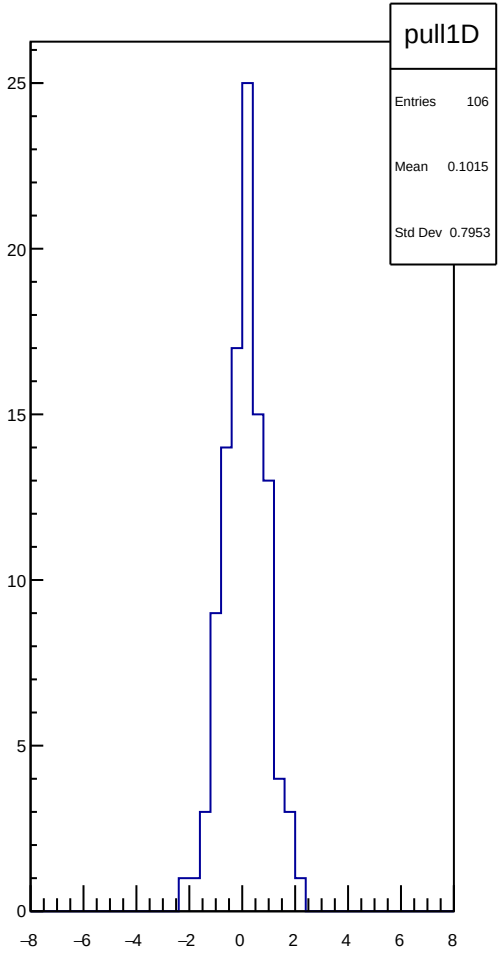

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 106.2 / 105
p0 0.0034 ± 0.03205
pull
Entries 106
Mean 158.9
Std Dev 0
pull1D
Entries 106
Mean 0.0272
Std Dev 1.001

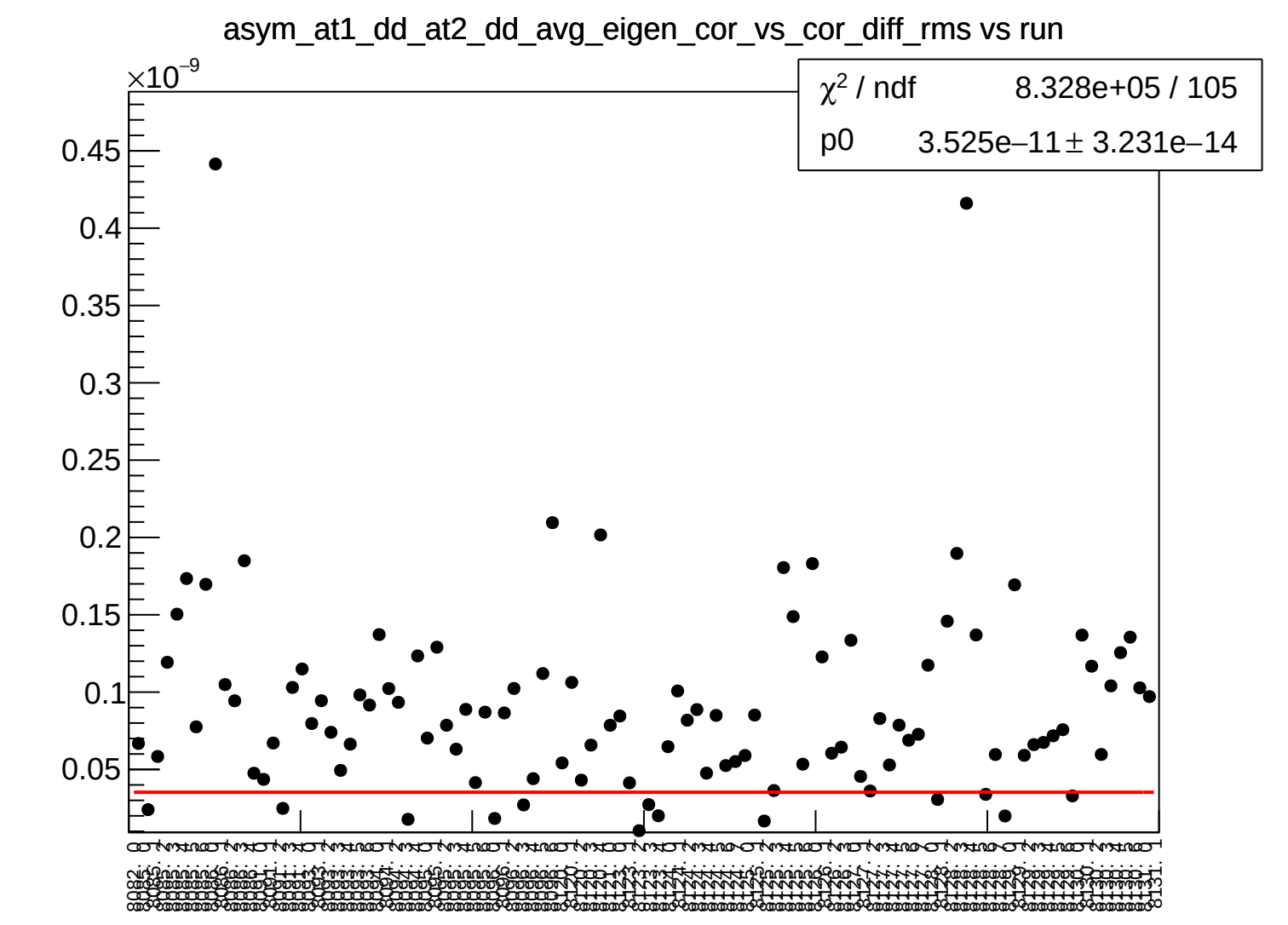

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 5.642e+05 / 105
p0 27.38 ± 0.02267
1200
1000
800
600
400
200

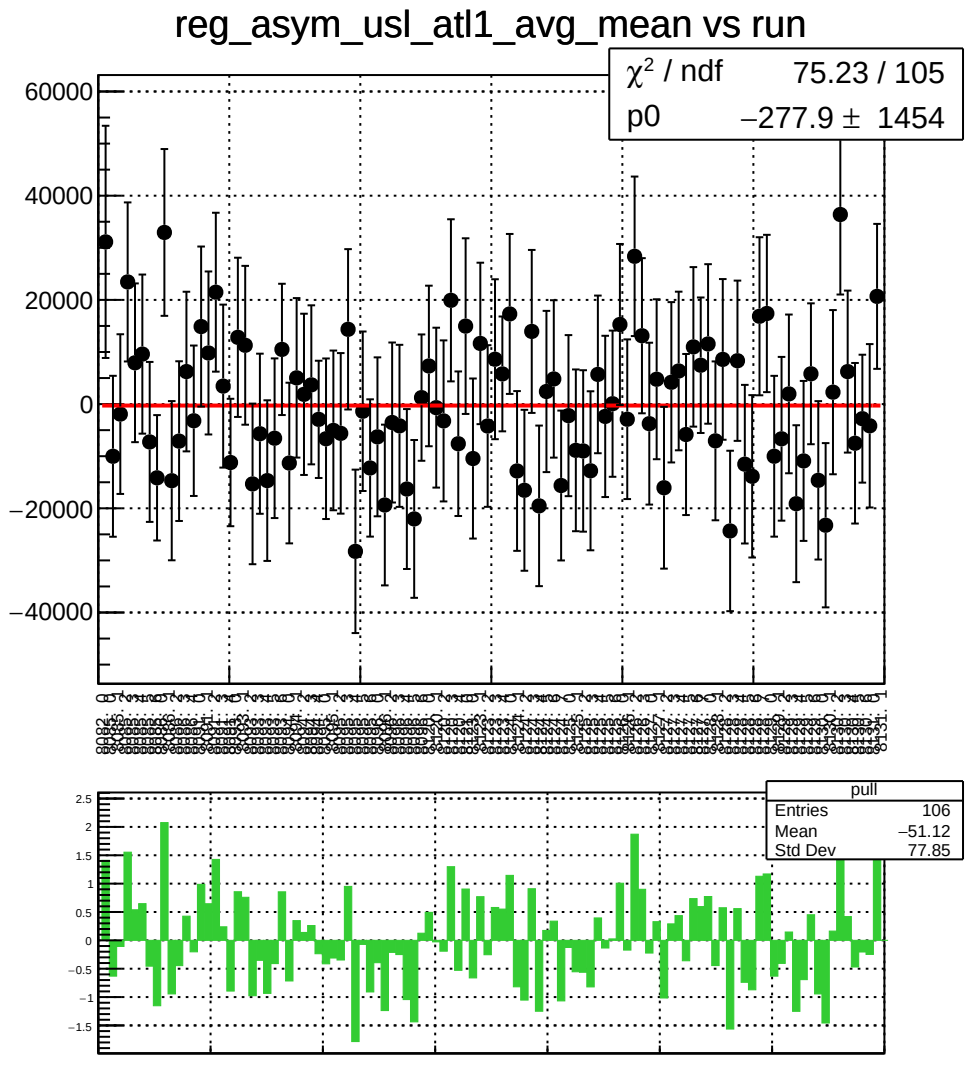

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.2 / 105
p0 0.0034 ± 0.03205
pull
Entries 106
Mean 158.9
Std Dev 0
pull1D
Entries 106
Mean 0.0272
Std Dev 1.001

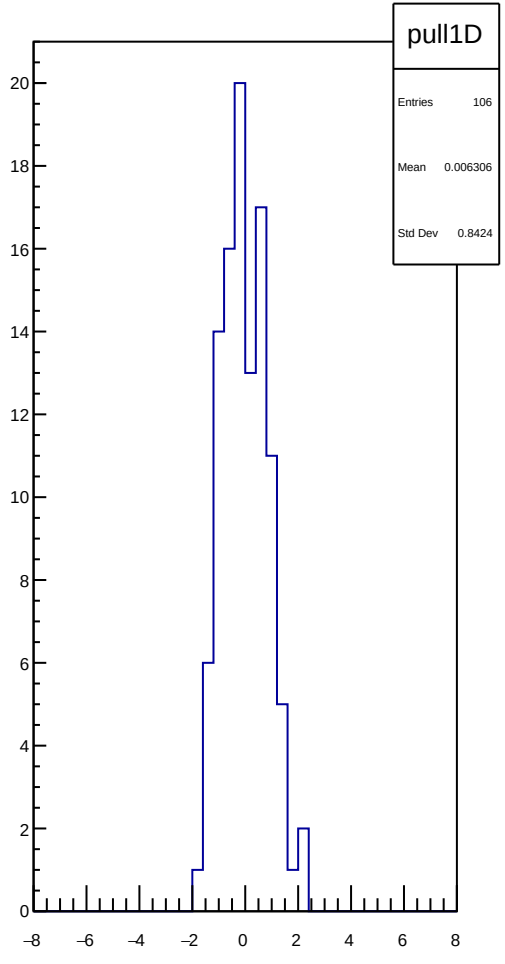

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.642e+05 / 105
p0 27.38 ± 0.02267
1200
1000
800
600
400
200

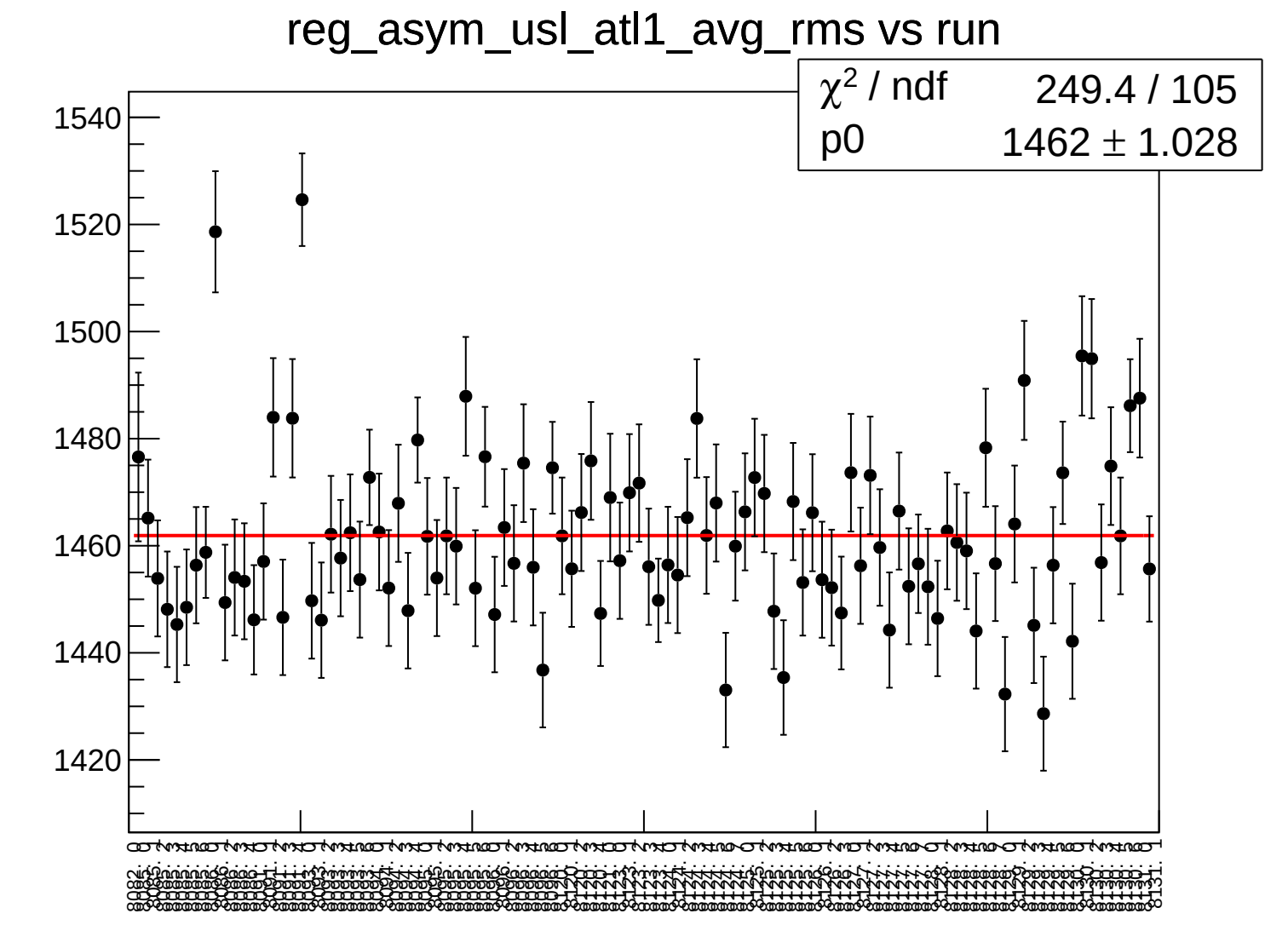

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 68.14 / 105
p0 8.015e−14 ± 4.569e−14
pull
Entries 106
Mean 43.41
Std Dev 6.329

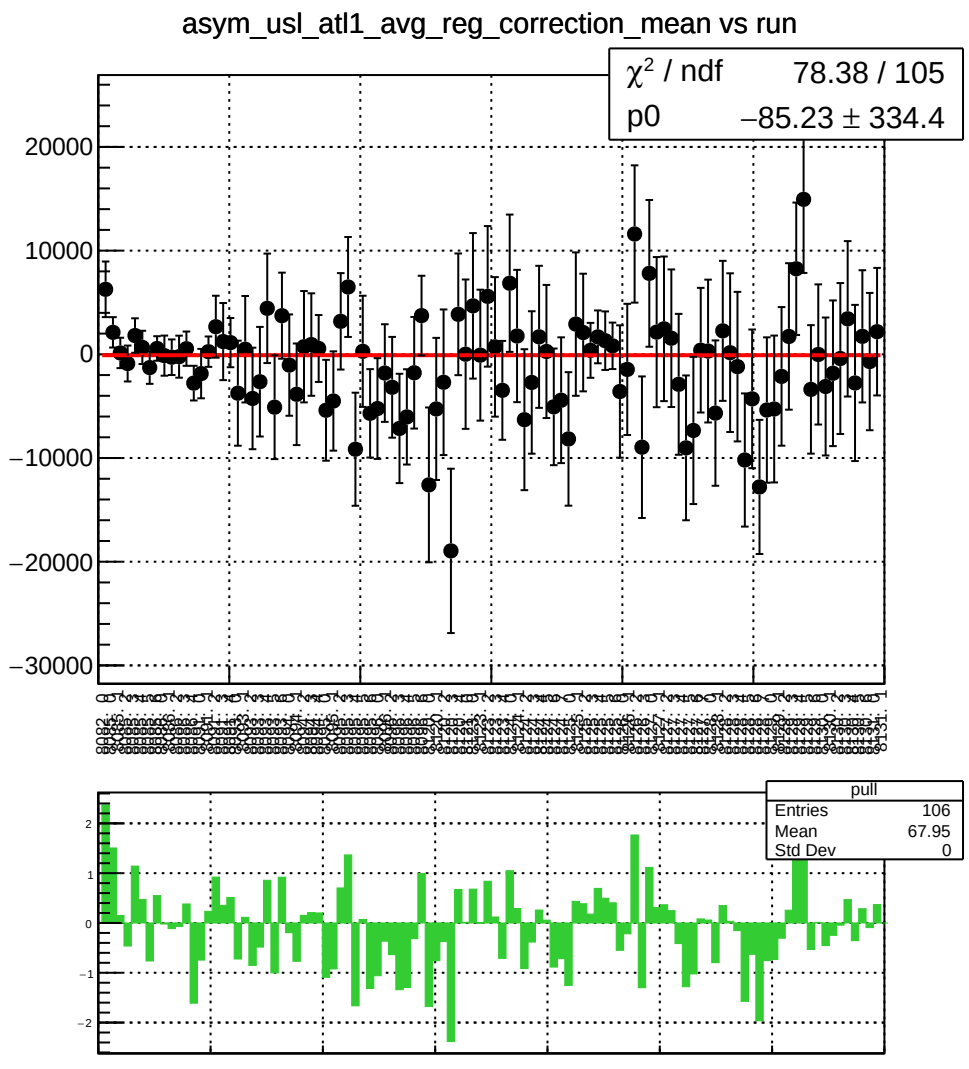

pull1D
Entries 106
Mean 0.1015
Std Dev 0.7953

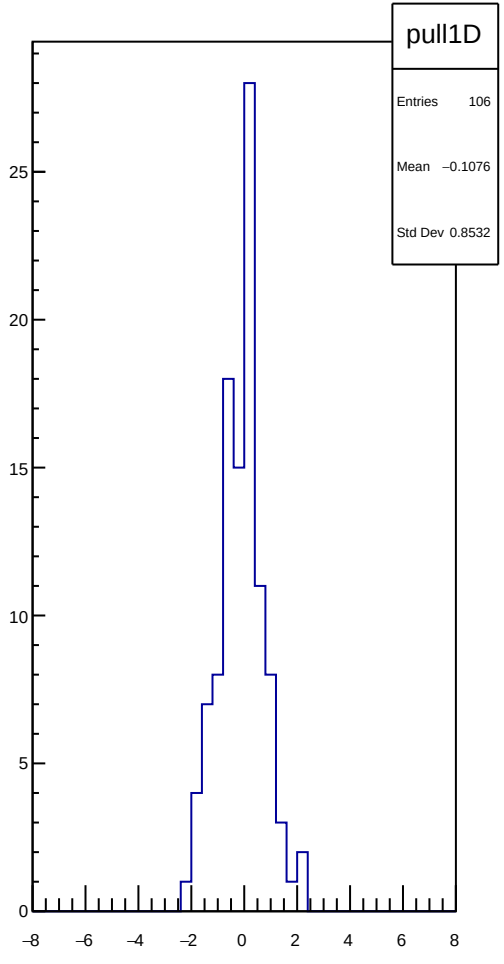

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.328e+05 / 105
p0 3.525e−11 ± 3.231e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

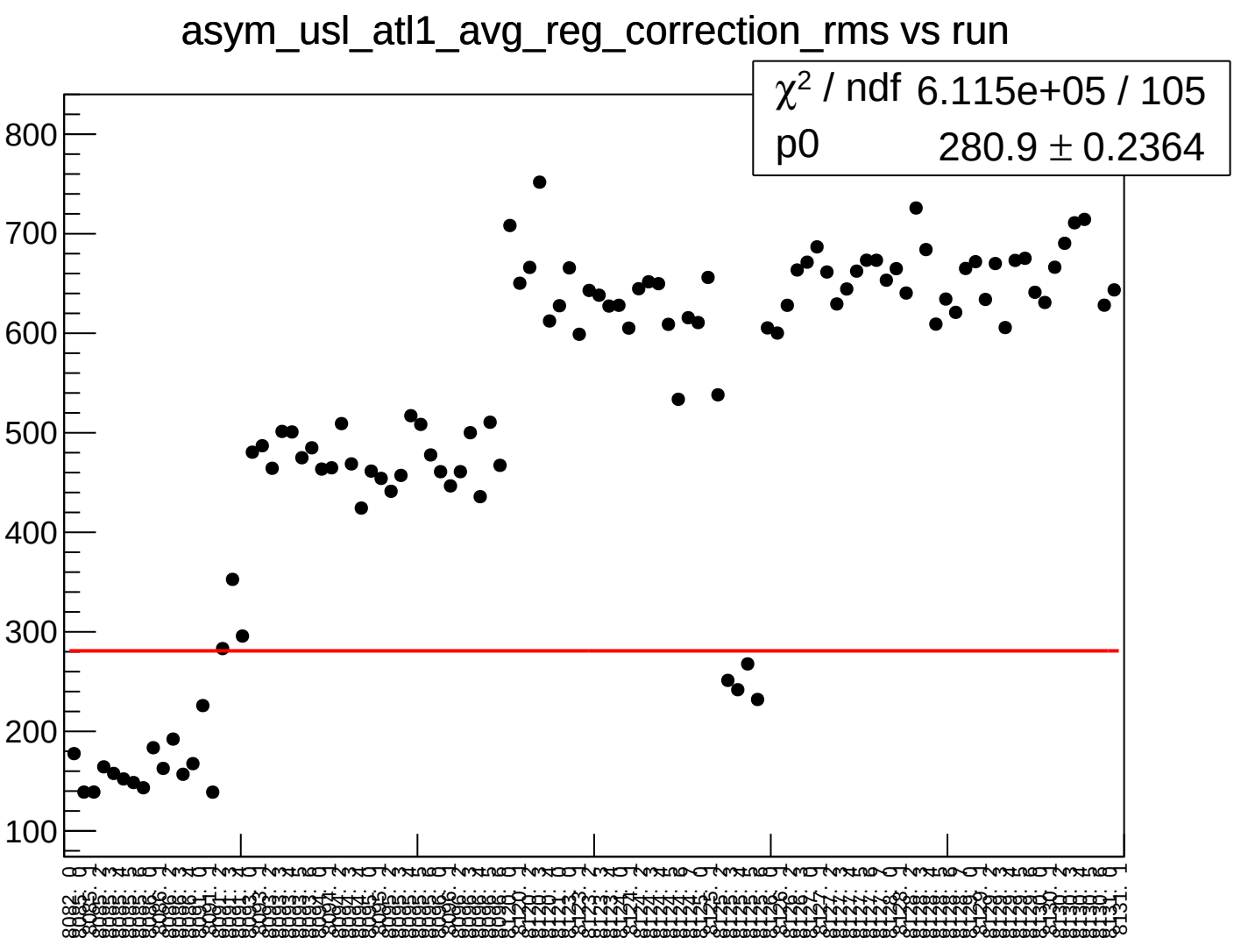

reg_asym_usl_atl1_avg_mean vs run
χ² / ndf 75.23 / 105
p0 −277.9 ± 1454
60000
40000
20000
0
−20000
−40000
pull
Entries 106
Mean −51.12
Std Dev 77.85
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

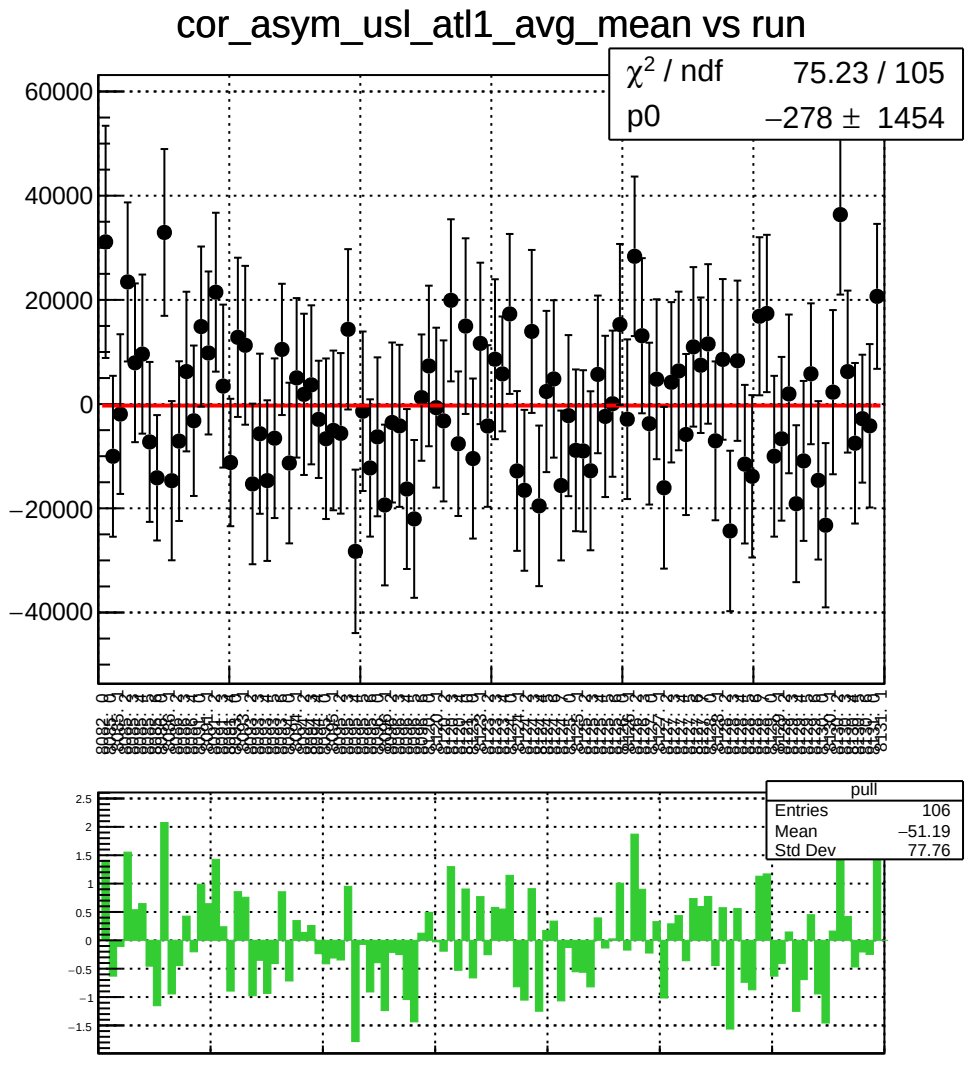

pull1D
Entries 106
Mean 0.006306
Std Dev 0.8424
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

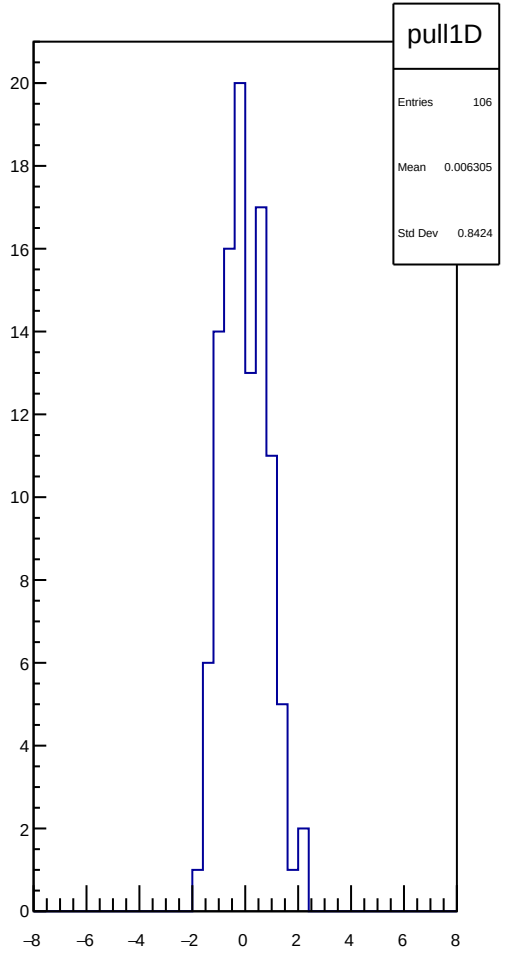

reg_asym_usl_atl1_avg_rms vs run
χ² / ndf 249.4 / 105
p0 1462 ± 1.028
1540
1520
1500
1480
1460
1440
1420

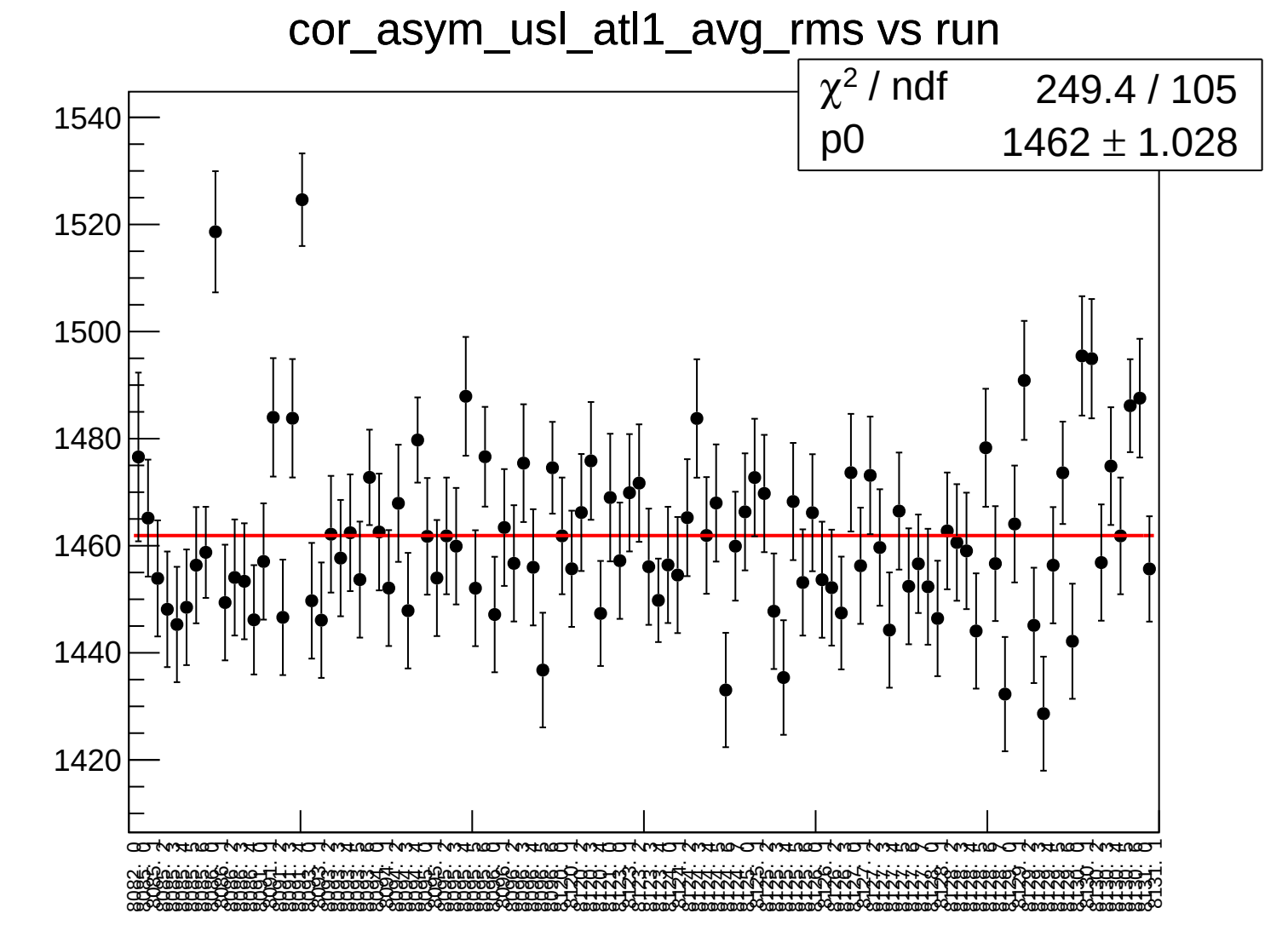

asym_usl_atl1_avg_reg_correction_mean vs run
χ² / ndf 78.38 / 105
p0 −85.23 ± 334.4
20000
10000
0
−10000
−20000
−30000
pull
Entries 106
Mean 67.95
Std Dev 0
2
1
0
−1
−2

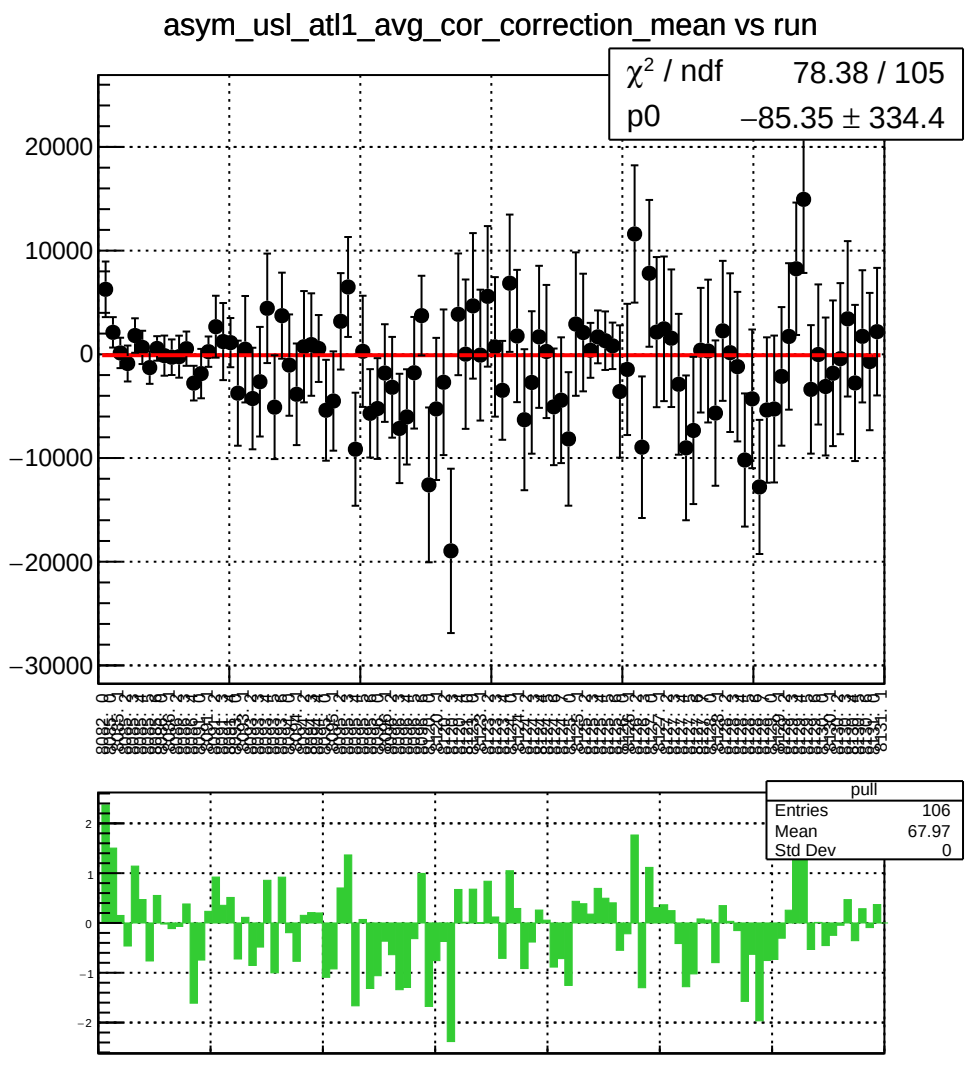

pull1D
Entries 106
Mean −0.1076
Std Dev 0.8532
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

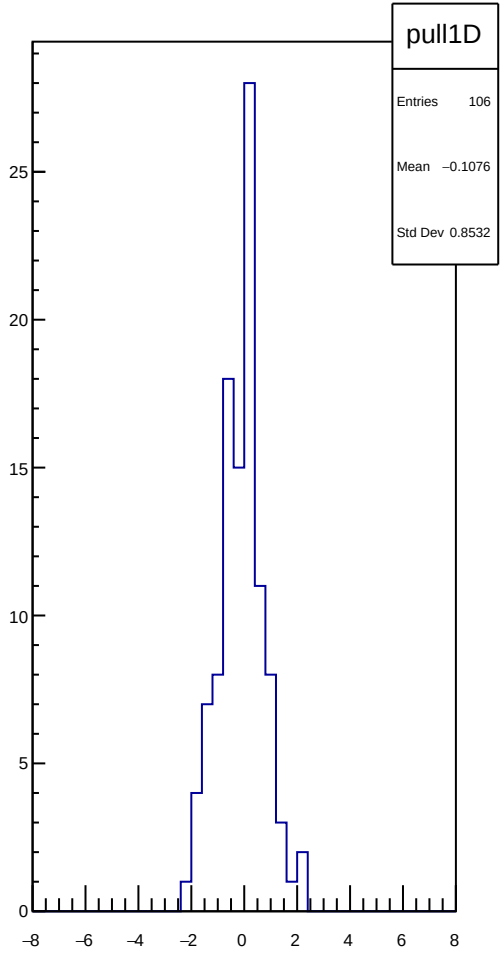

asym_usl_atl1_avg_reg_correction_rms vs run
χ² / ndf 6.115e+05 / 105
p0 280.9 ± 0.2364
800
700
600
500
400
300
200
100

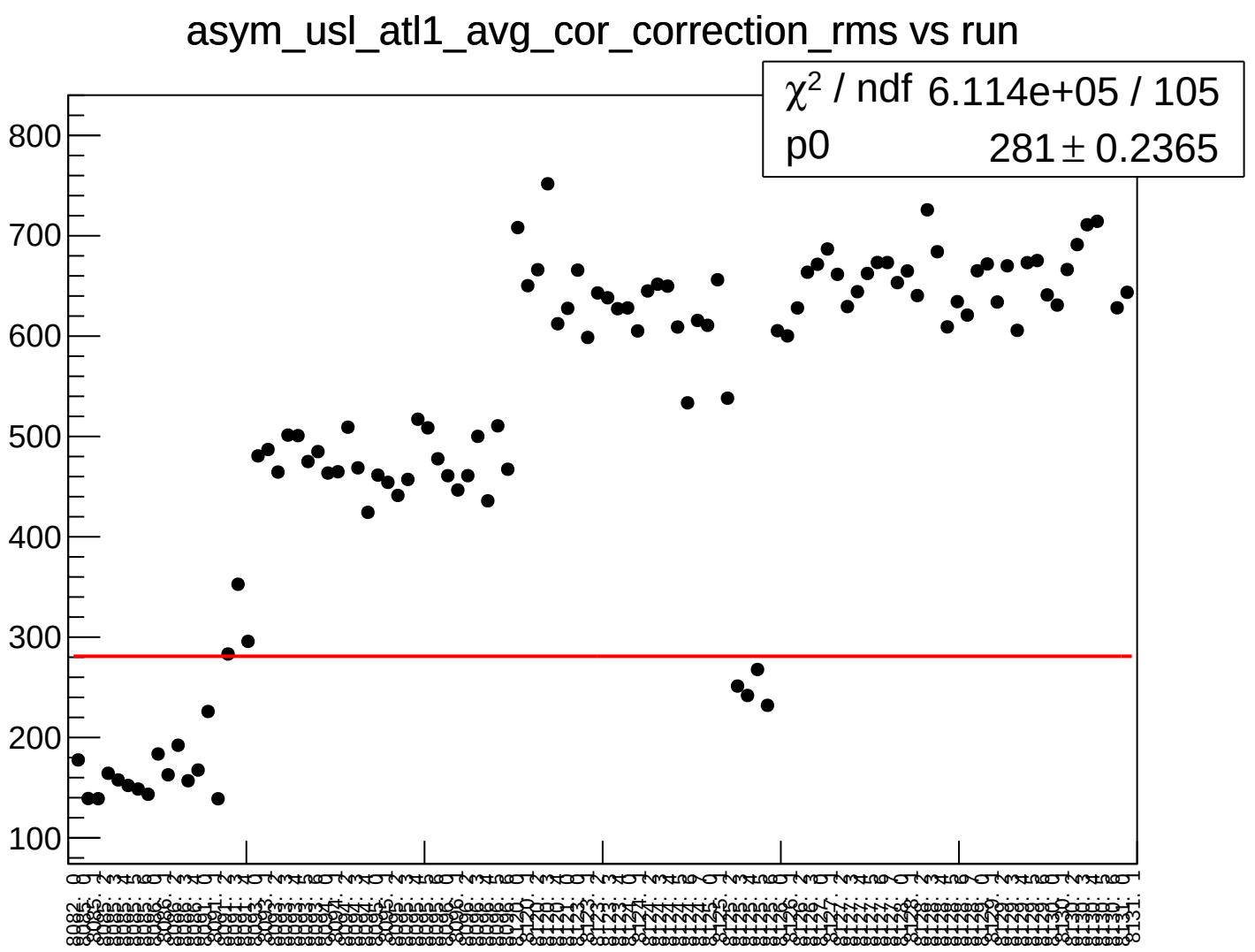

cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 75.23 / 105
p0 −278 ± 1454
60000
40000
20000
0
−20000
−40000
pull
Entries 106
Mean −51.19
Std Dev 77.76
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

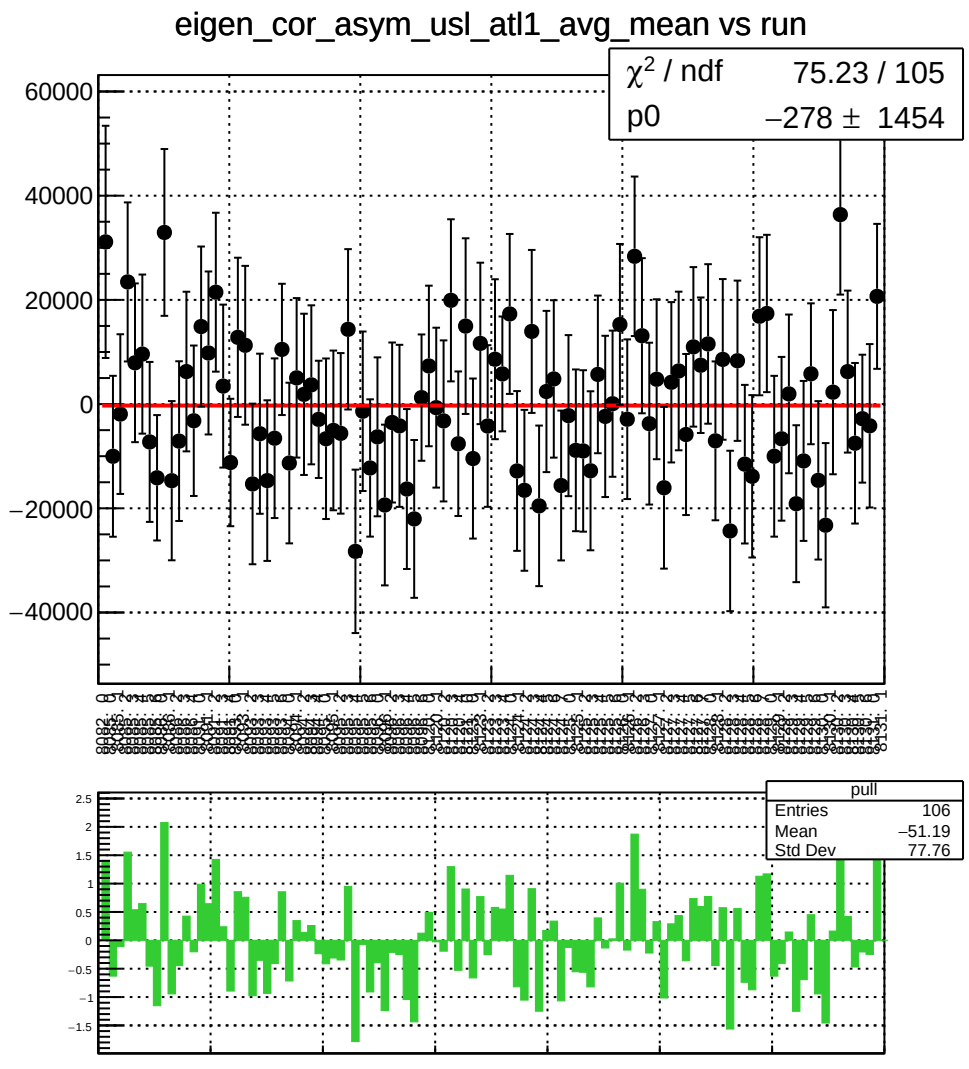

pull1D
Entries 106
Mean 0.006305
Std Dev 0.8424
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

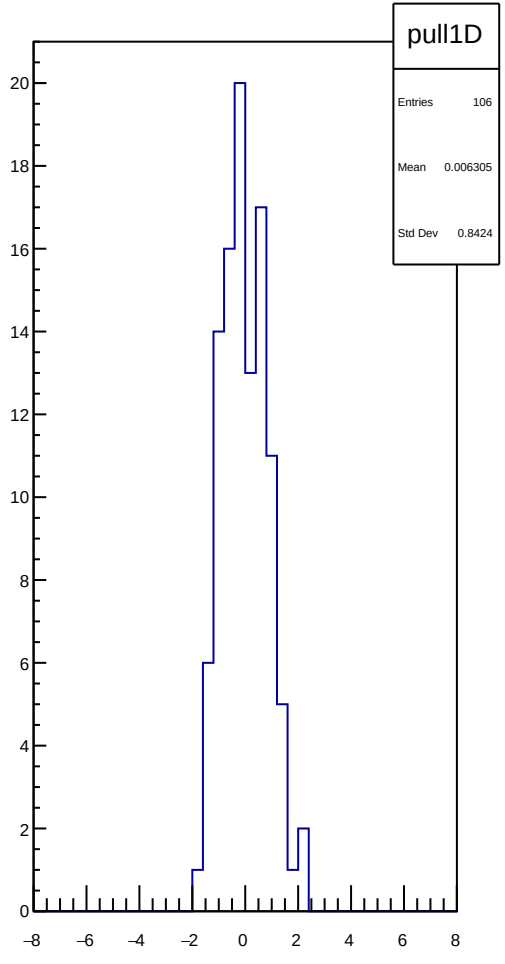

cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 249.4 / 105
p0 1462 ± 1.028
1540
1520
1500
1480
1460
1440
1420


asym_usl_atl1_avg_cor_correction_mean vs run
χ² / ndf 78.38 / 105
p0 −85.35 ± 334.4
20000
10000
0
−10000
−20000
−30000
pull
Entries 106
Mean 67.97
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 106
Mean −0.1076
Std Dev 0.8532
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_atl1_avg_cor_correction_rms vs run
χ² / ndf 6.114e+05 / 105
p0 281 ± 0.2365
800
700
600
500
400
300
200
100


eigen_cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 75.23 / 105
p0 −278 ± 1454
60000
40000
20000
0
−20000
−40000
pull
Entries 106
Mean −51.19
Std Dev 77.76
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 106
Mean 0.006305
Std Dev 0.8424
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
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2
4
6
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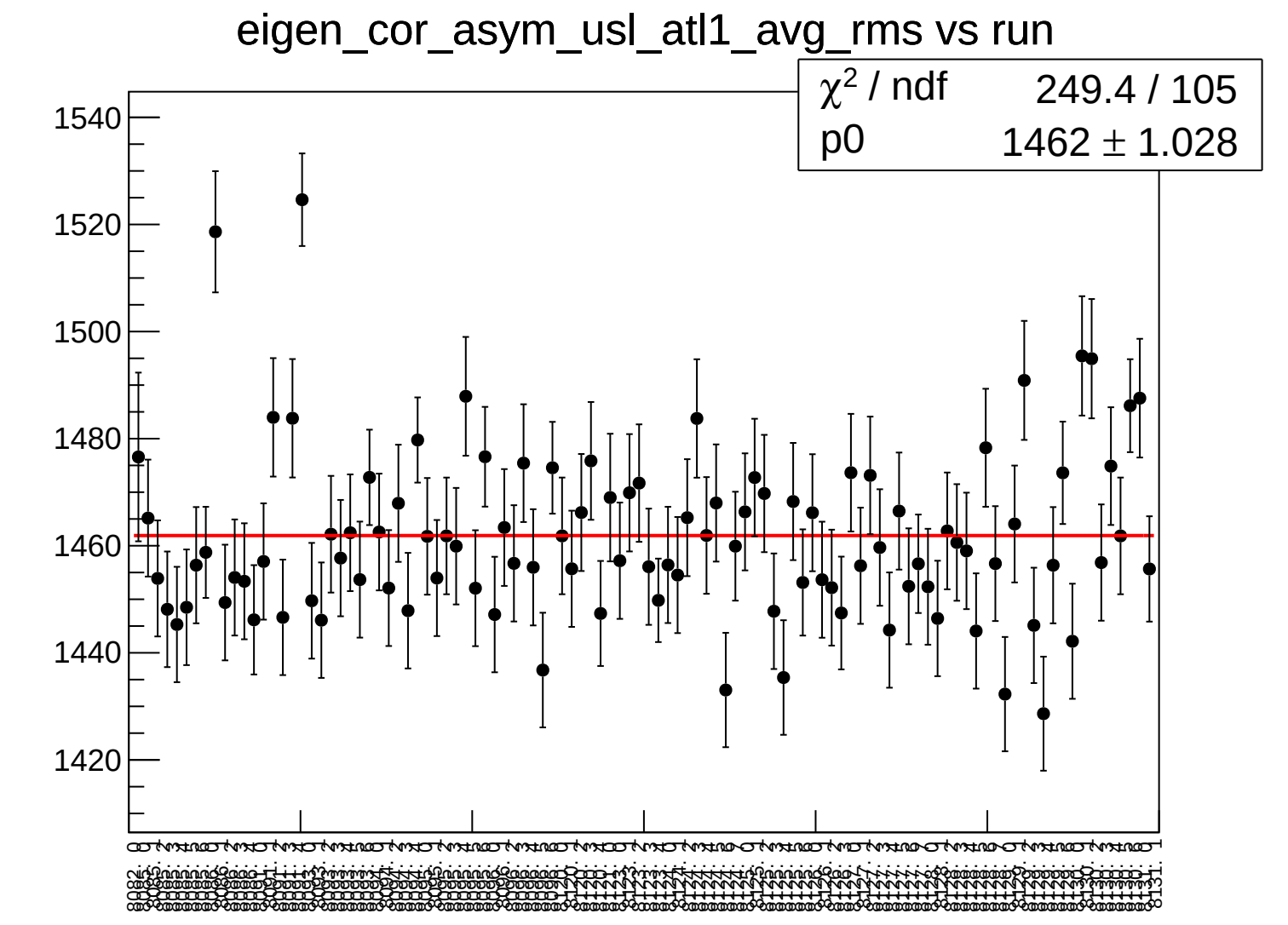
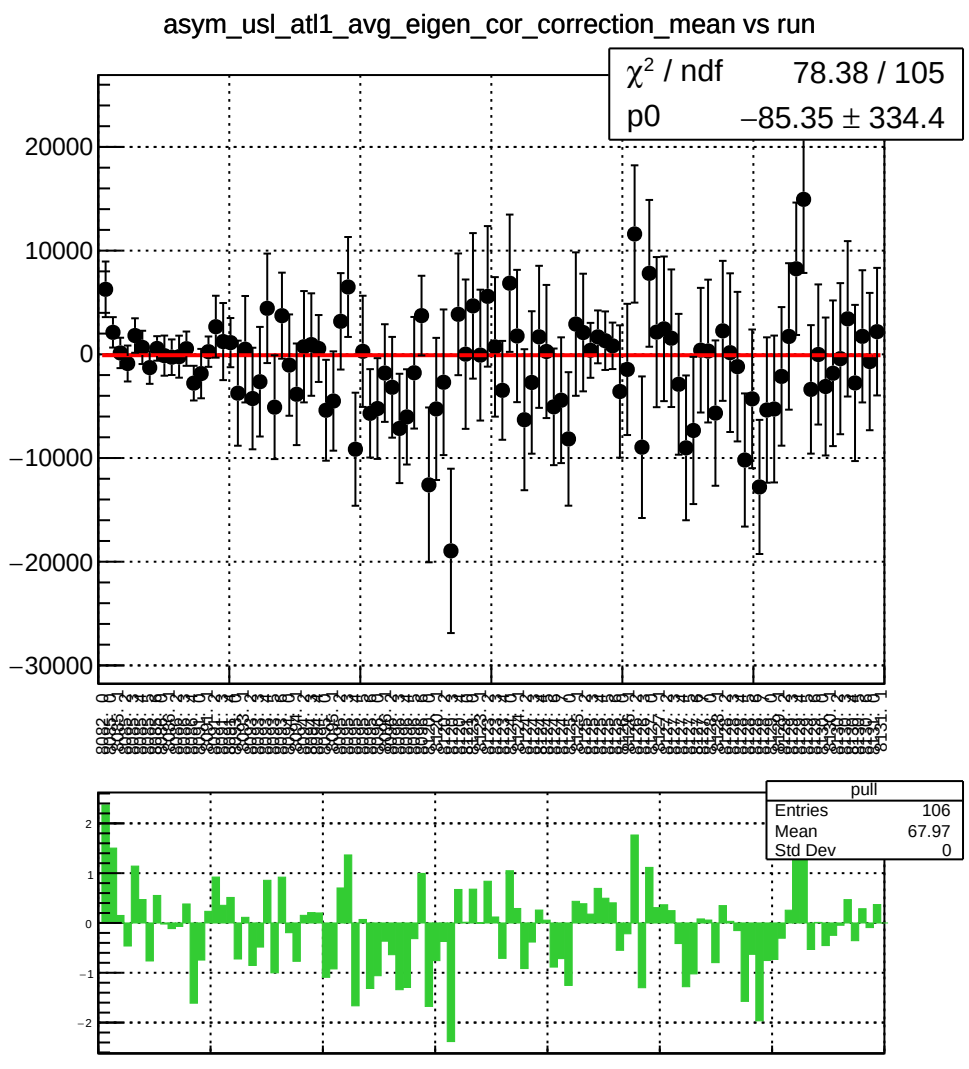
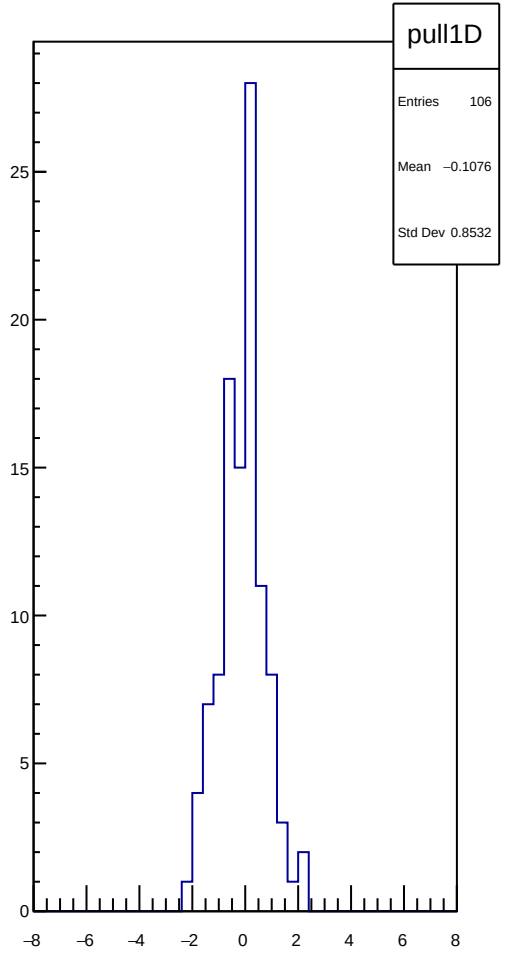

eigen_cor_asym_usl_atl1_avg_rms vs run
$\chi^2$ / ndf 249.4 / 105
p0 1462 ± 1.028
1540
1520
1500
1480
1460
1440
1420


asym_usl_atl1_avg_eigen_cor_correction_mean vs run
χ² / ndf 78.38 / 105
p0 −85.35 ± 334.4
20000
10000
0
−10000
−20000
−30000
pull
Entries 106
Mean 67.97
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 106
Mean −0.1076
Std Dev 0.8532
25
20
15
10
5
0
−8
−6
−4
−2
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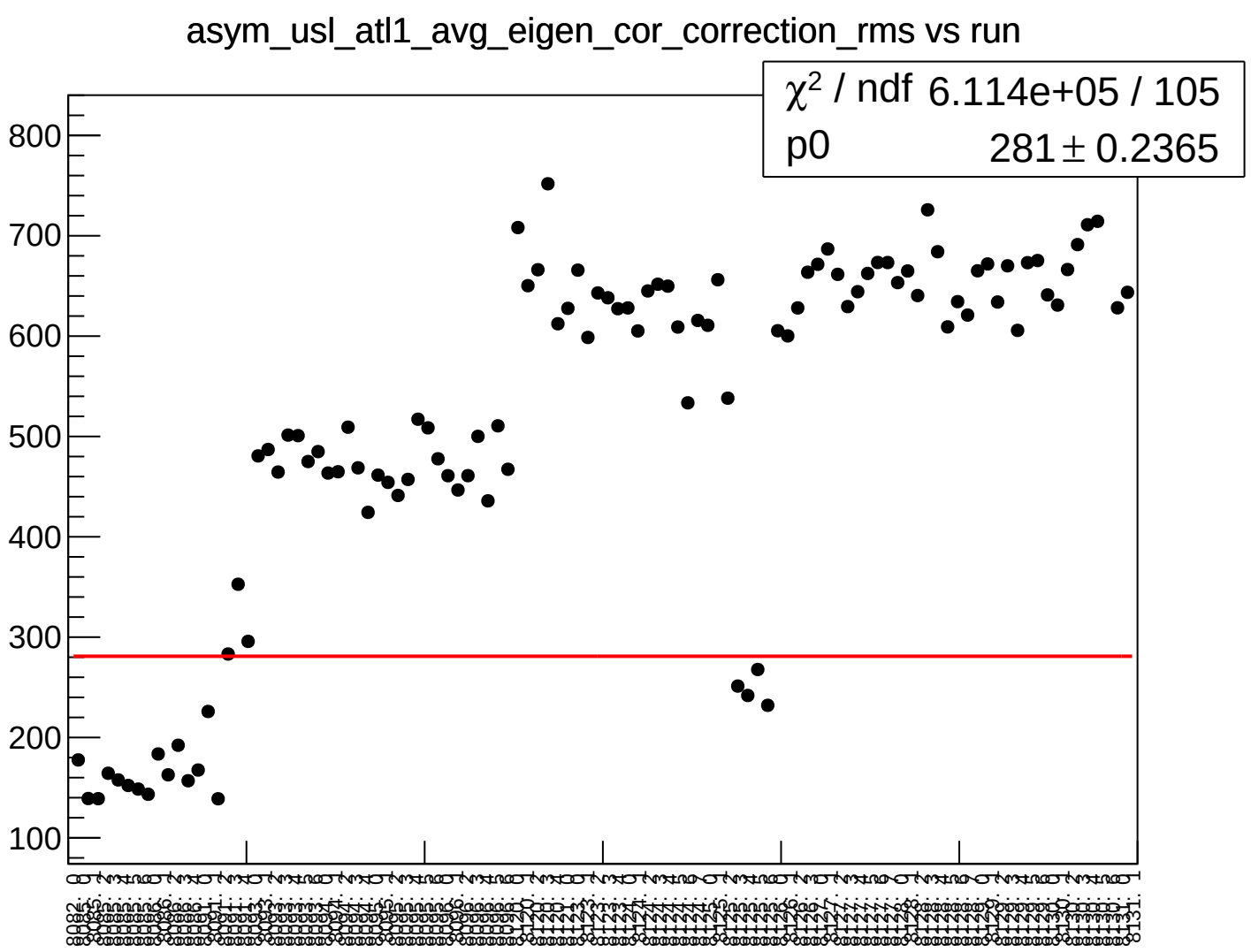
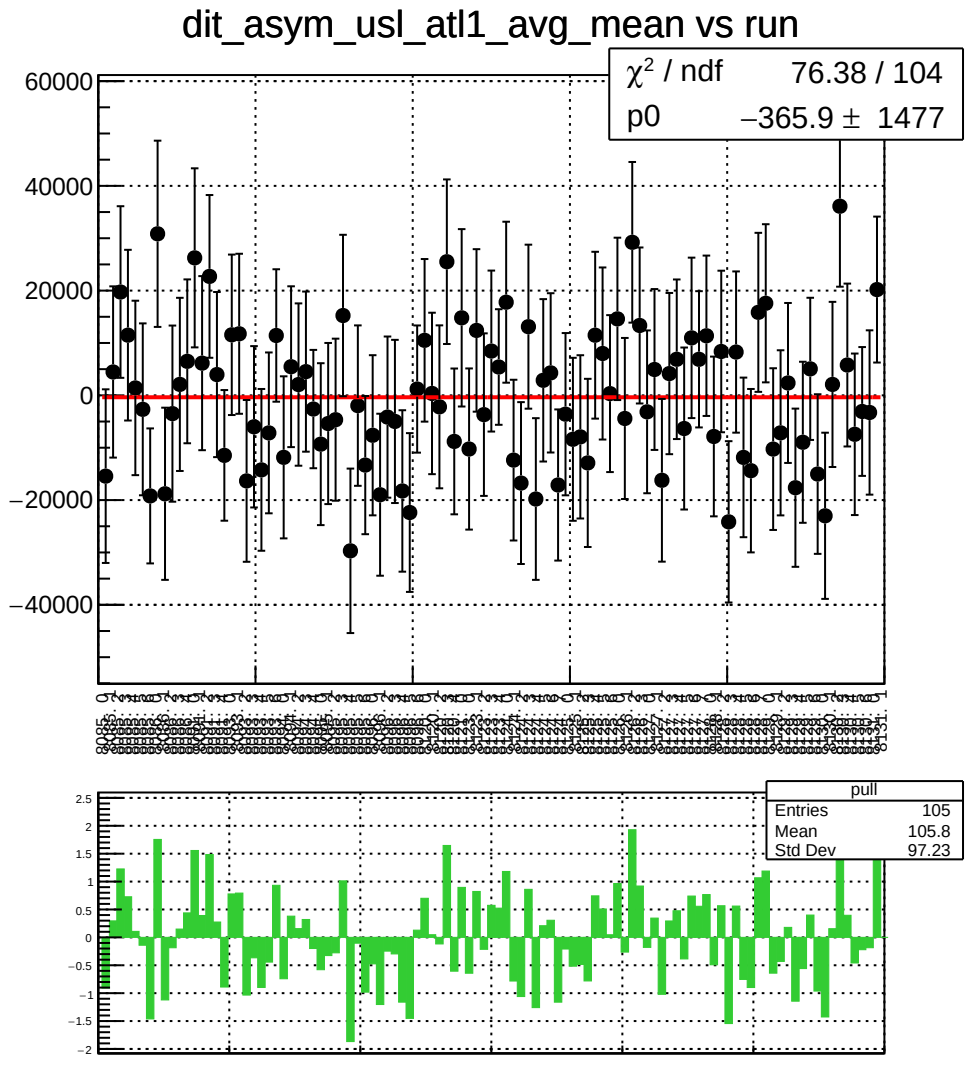
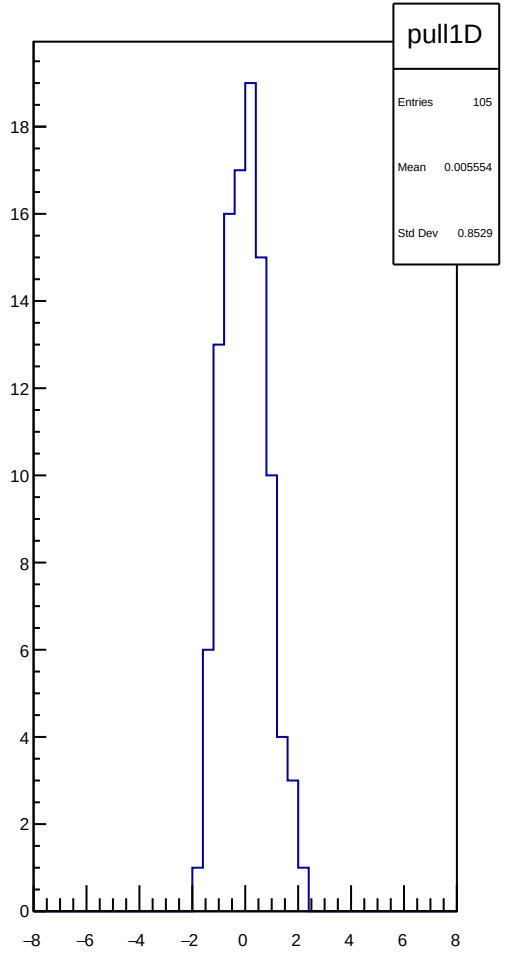
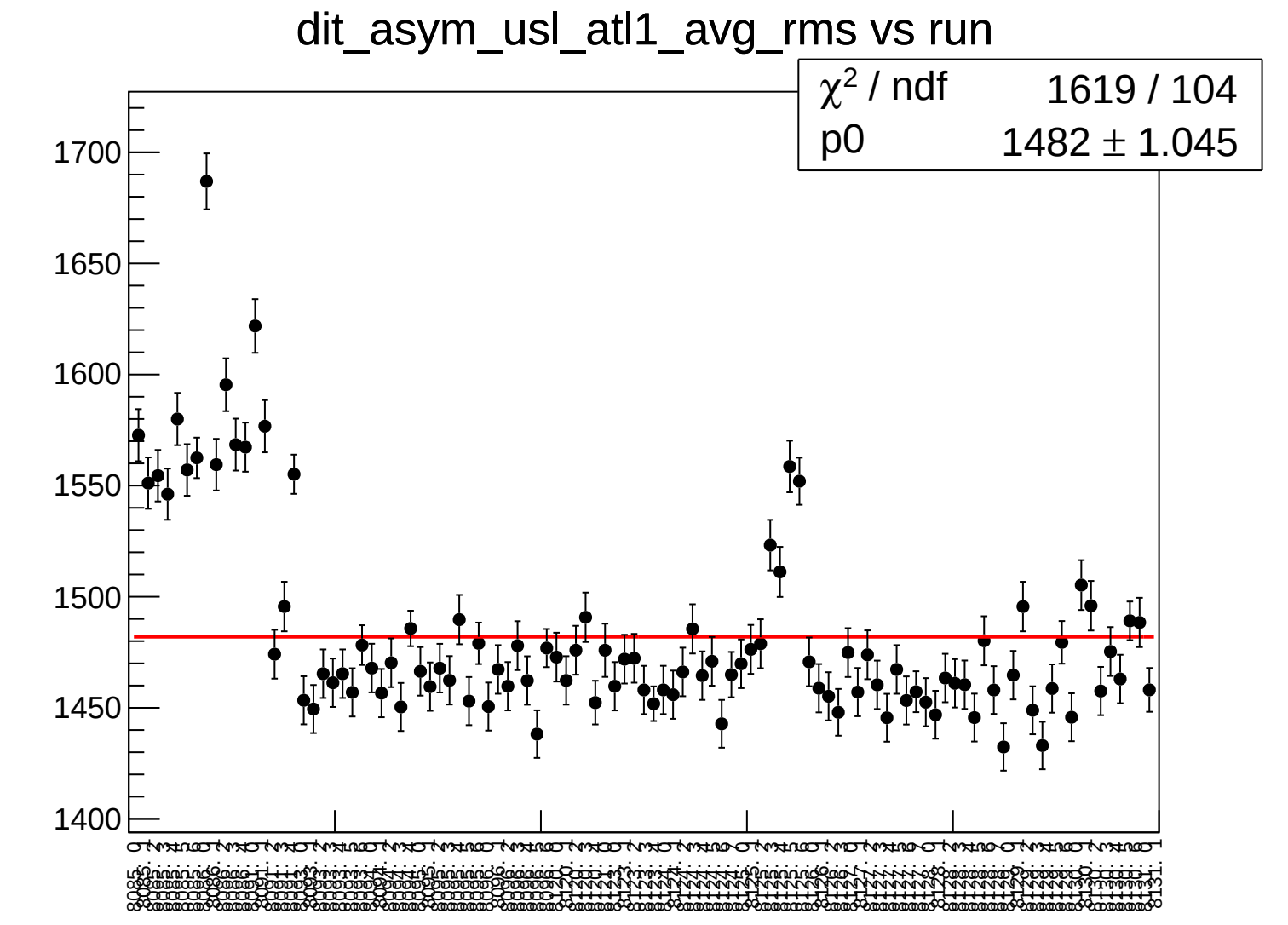
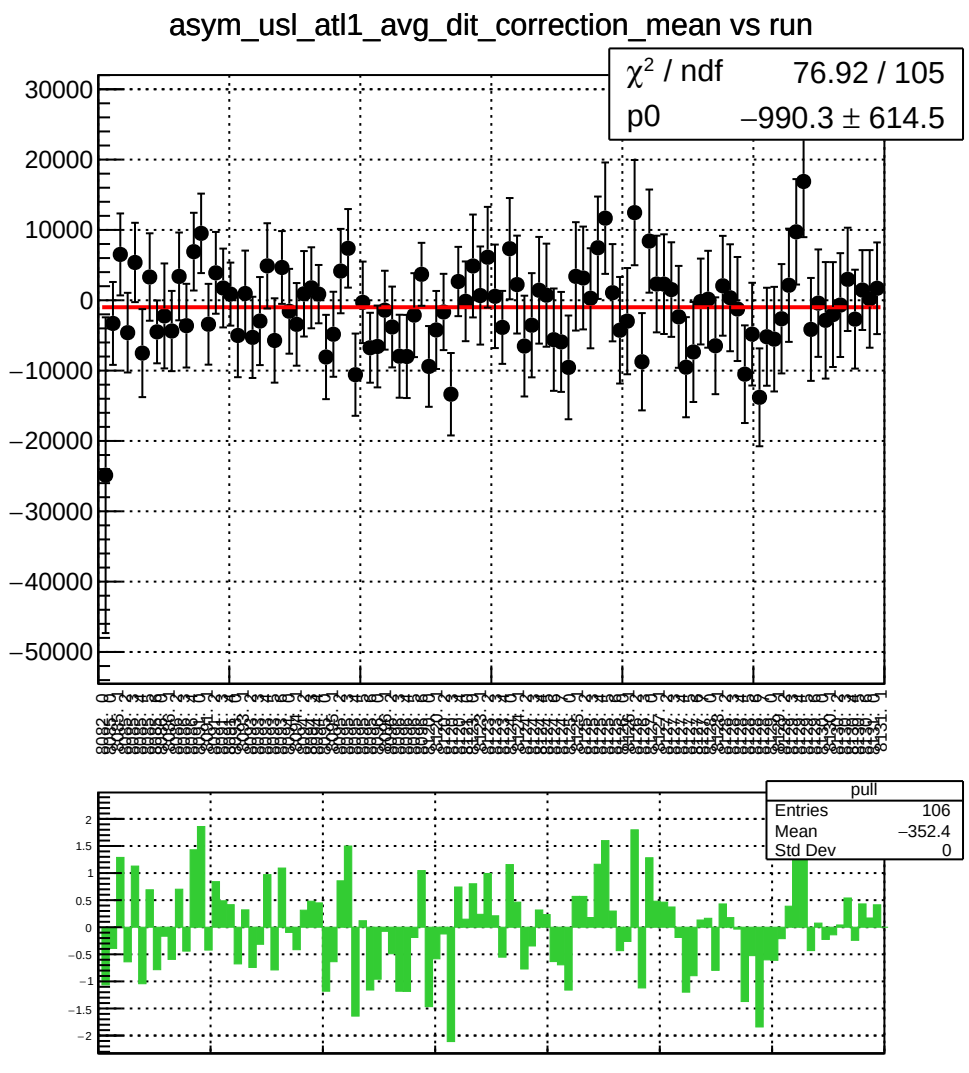
2
4
6
8

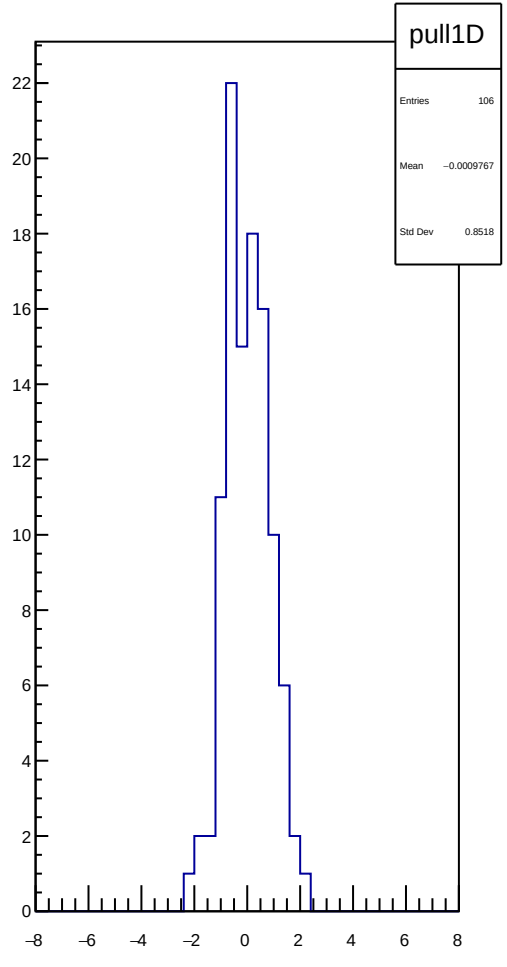

asym_usl_atl1_avg_eigen_cor_correction_rms vs run
χ² / ndf 6.114e+05 / 105
p0 281 ± 0.2365
800
700
600
500
400
300
200
100

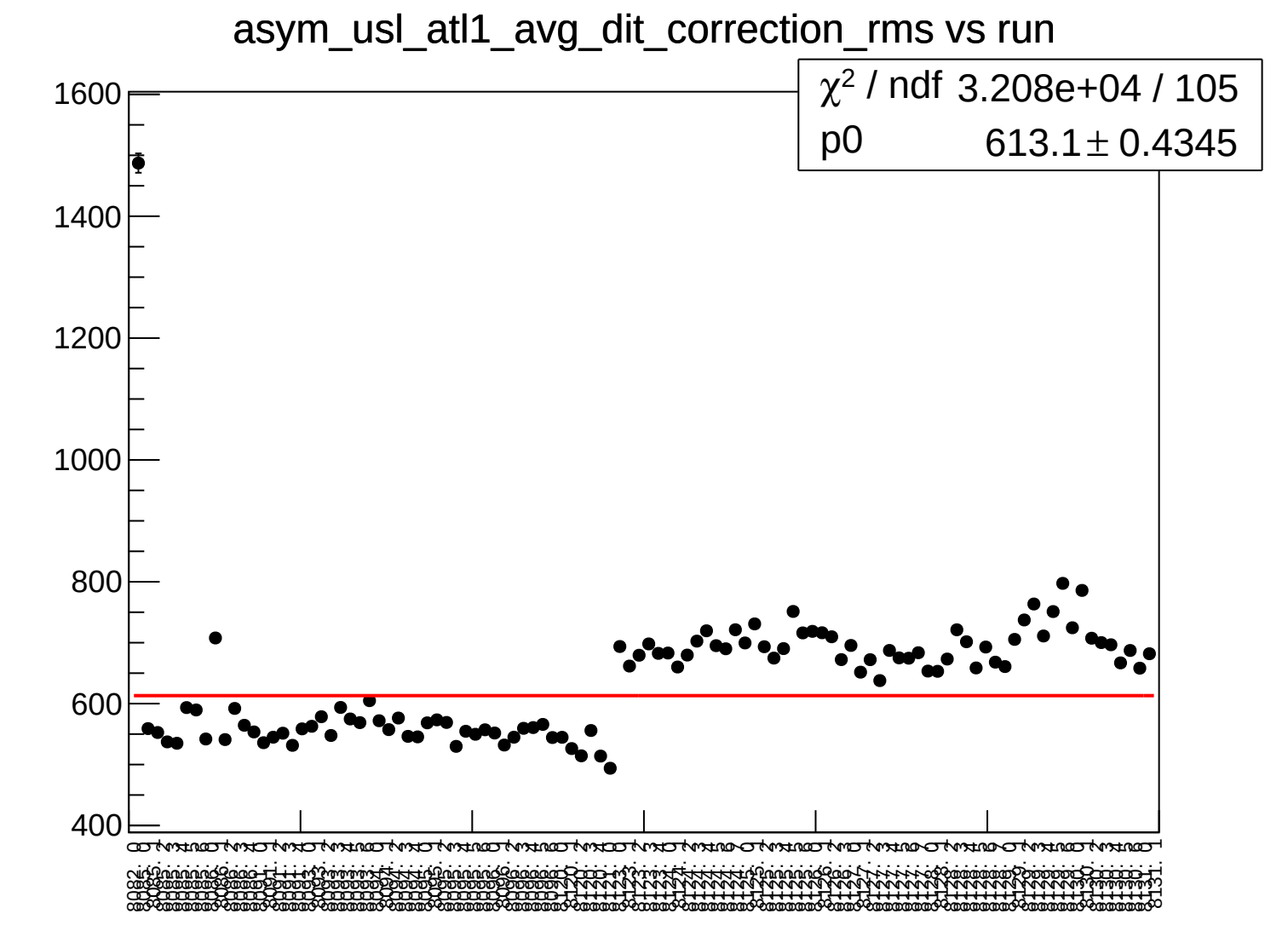

dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 76.38 / 104
p0 −365.9 ± 1477
60000
40000
20000
0
−20000
−40000
pull
Entries 105
Mean 105.8
Std Dev 97.23
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

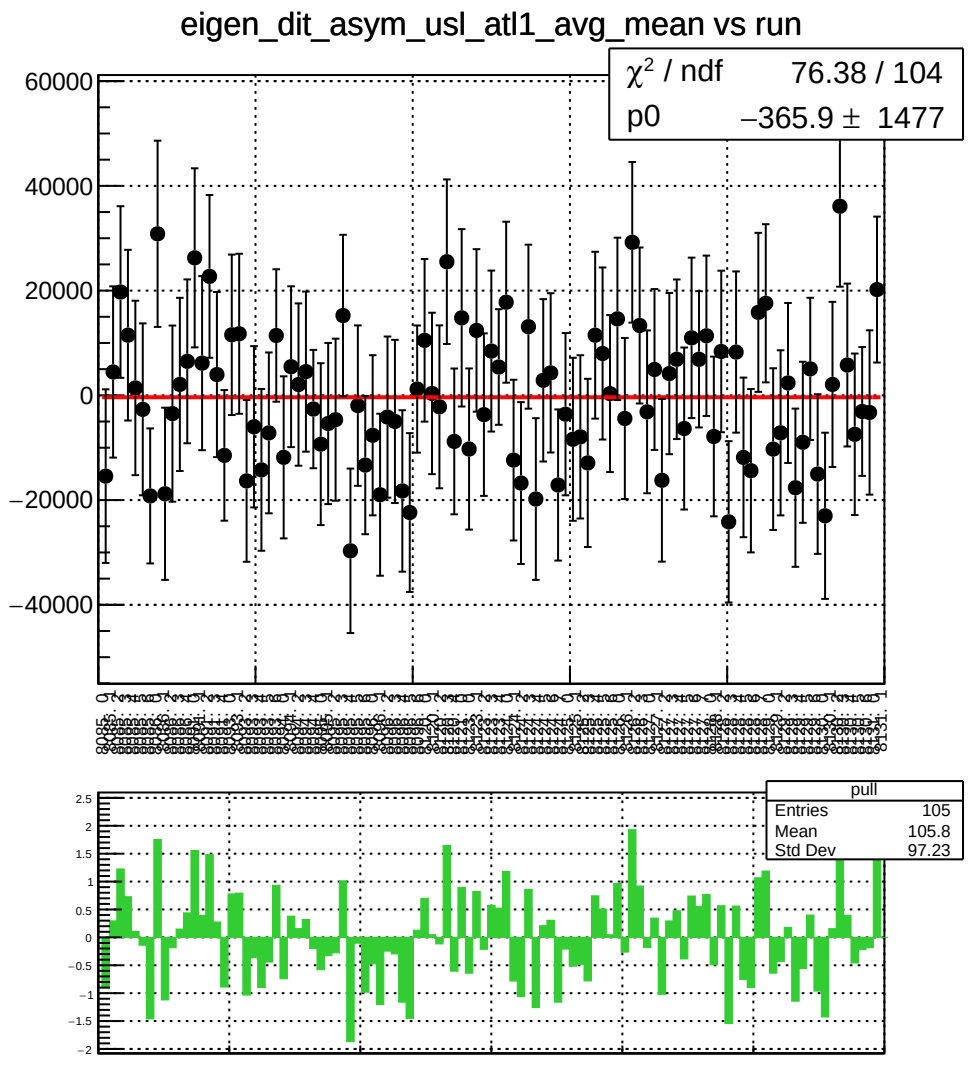

pull1D
Entries 105
Mean 0.005554
Std Dev 0.8529
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

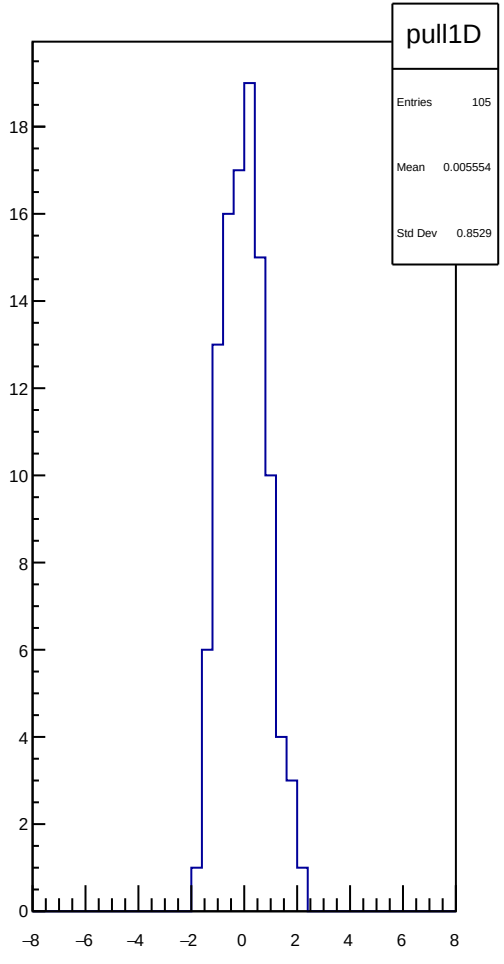

dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 1619 / 104
p0 1482 ± 1.045
1700
1650
1600
1550
1500
1450
1400

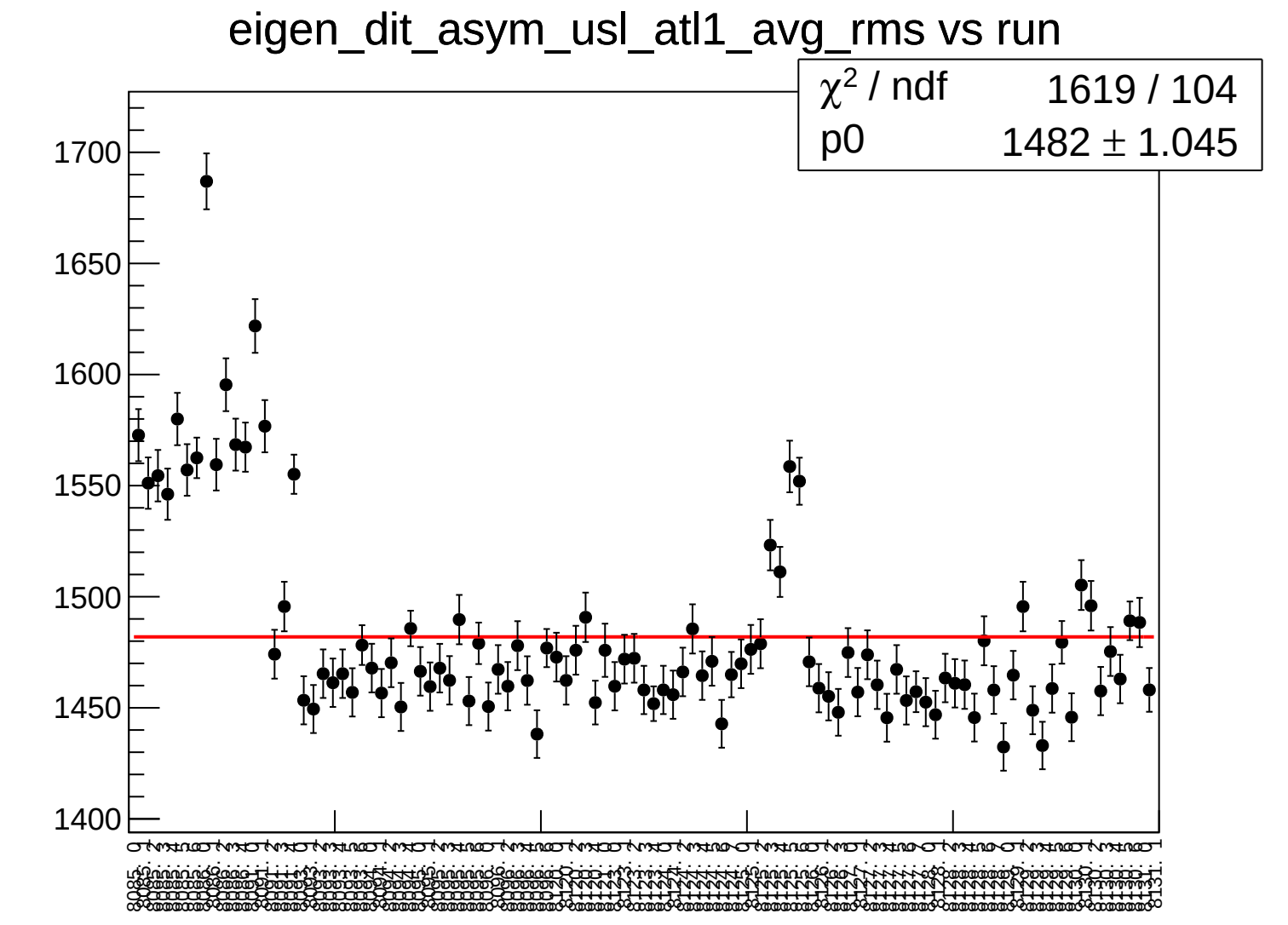

asym_usl_atl1_avg_dit_correction_mean vs run
χ² / ndf 76.92 / 105
p0 −990.3 ± 614.5
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
pull
Entries 106
Mean −352.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

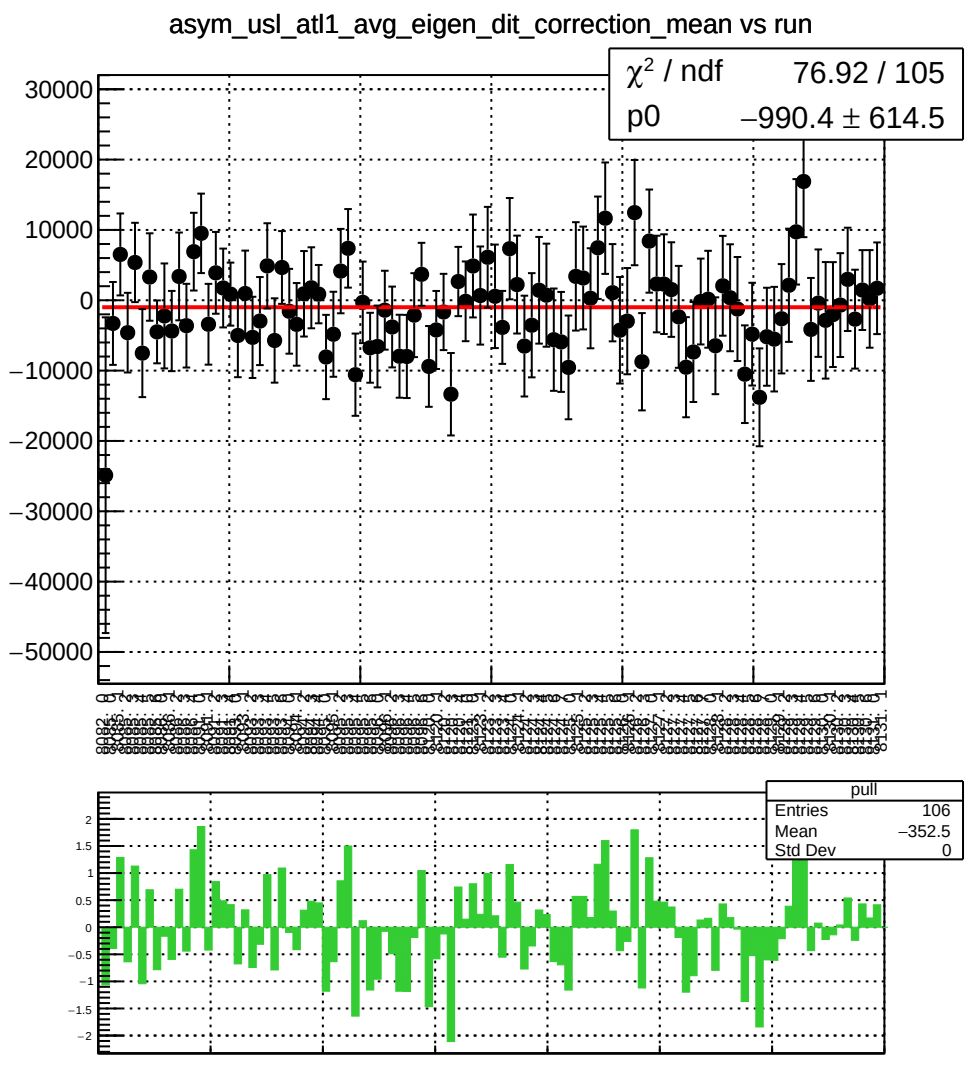

pull1D
Entries 106
Mean −0.0009767
Std Dev 0.8518
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

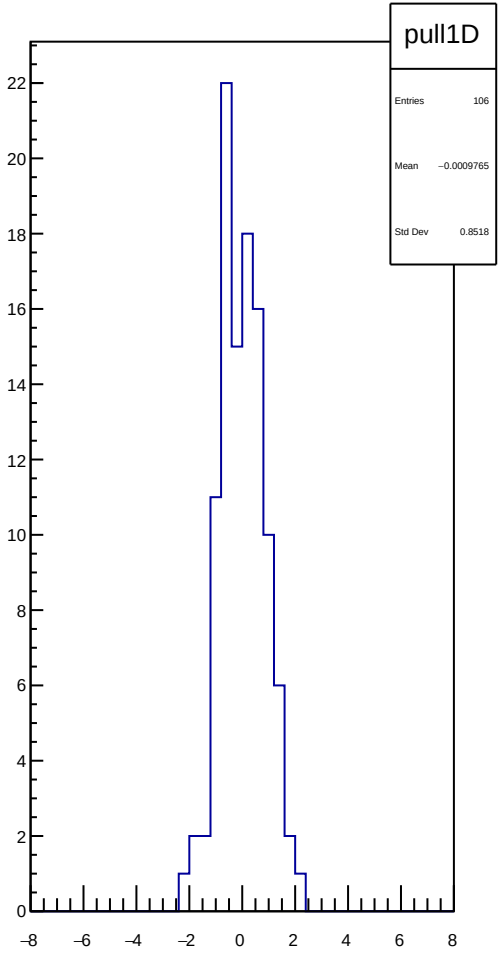

asym_usl_atl1_avg_dit_correction_rms vs run
χ² / ndf 3.208e+04 / 105
p0 613.1 ± 0.4345
1600
1400
1200
1000
800
600
400

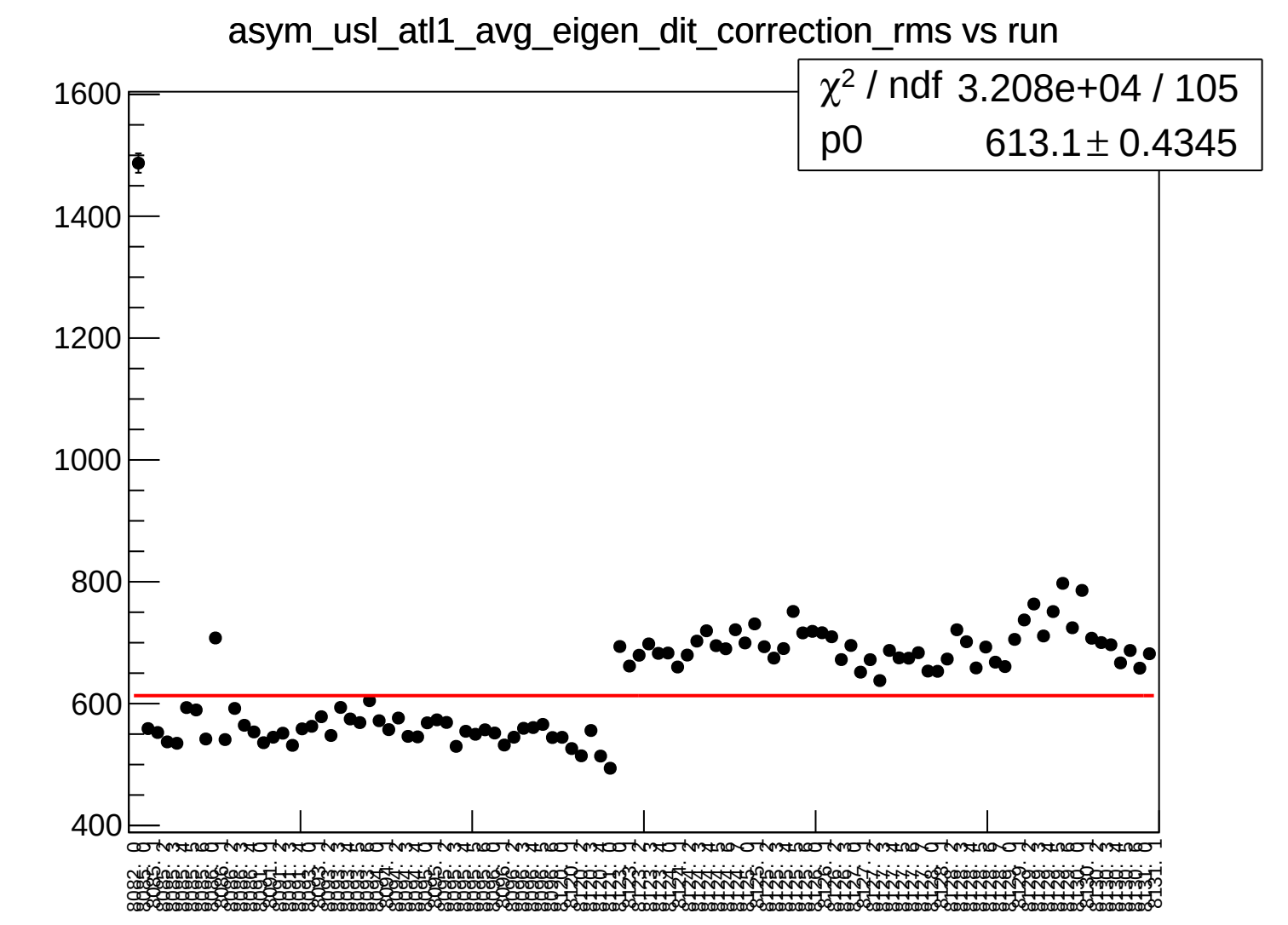

eigen_dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 76.38 / 104
p0 −365.9 ± 1477
60000
40000
20000
0
−20000
−40000
pull
Entries 105
Mean 105.8
Std Dev 97.23
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

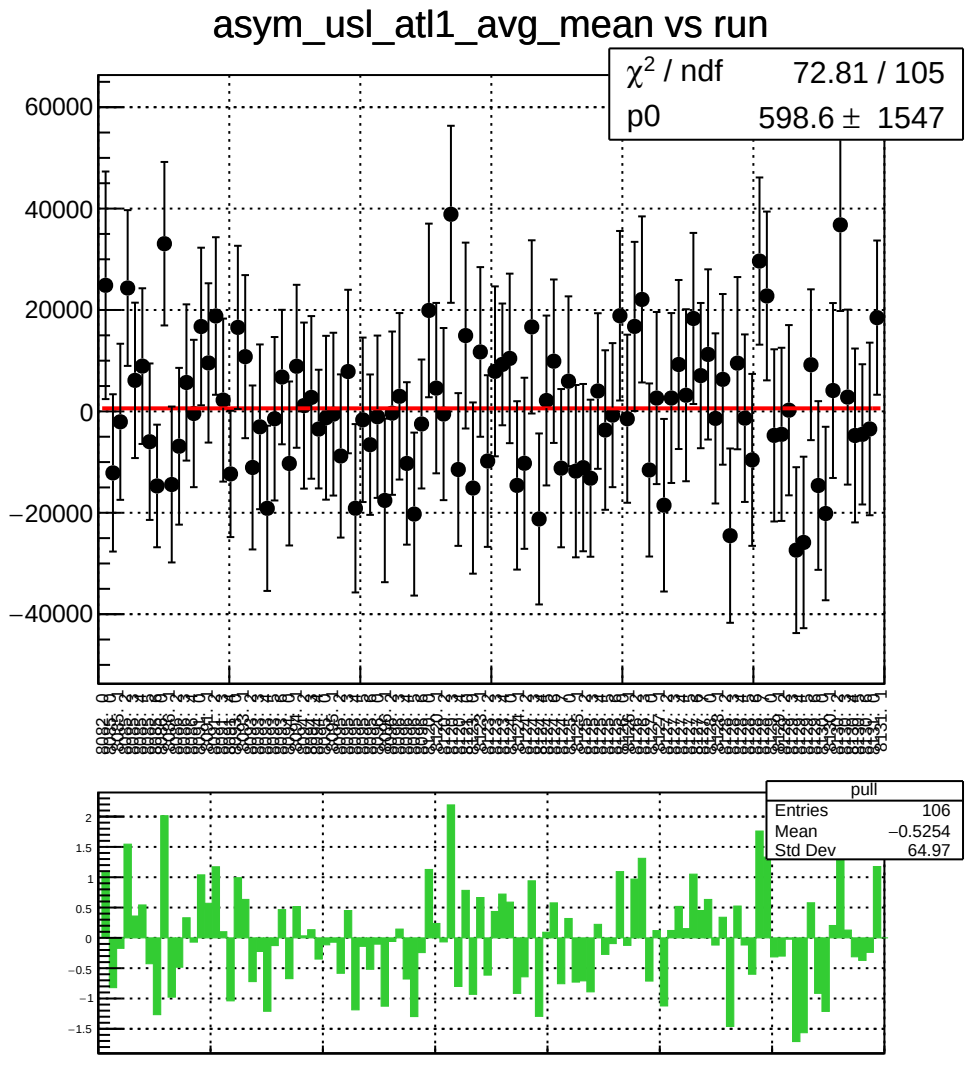

pull1D
Entries 105
Mean 0.005554
Std Dev 0.8529
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

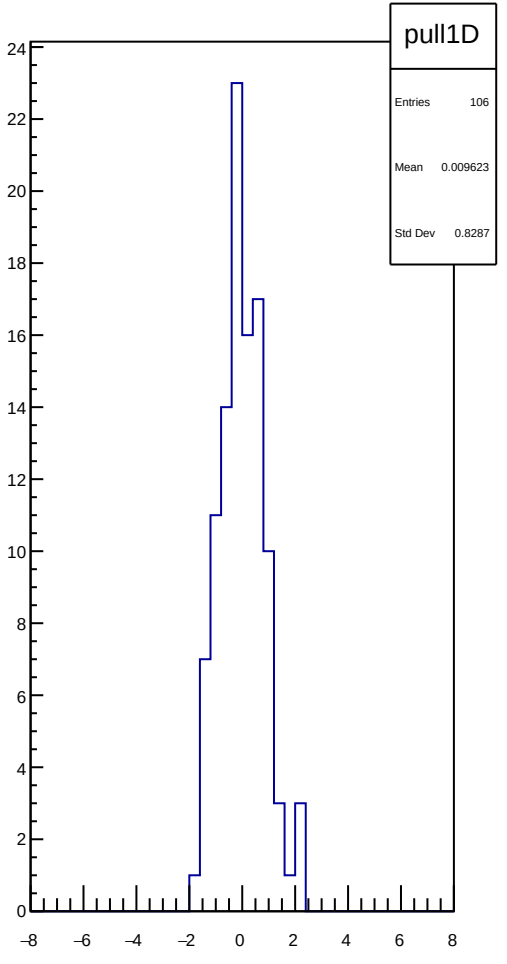

eigen_dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 1619 / 104
p0 1482 ± 1.045
1700
1650
1600
1550
1500
1450
1400

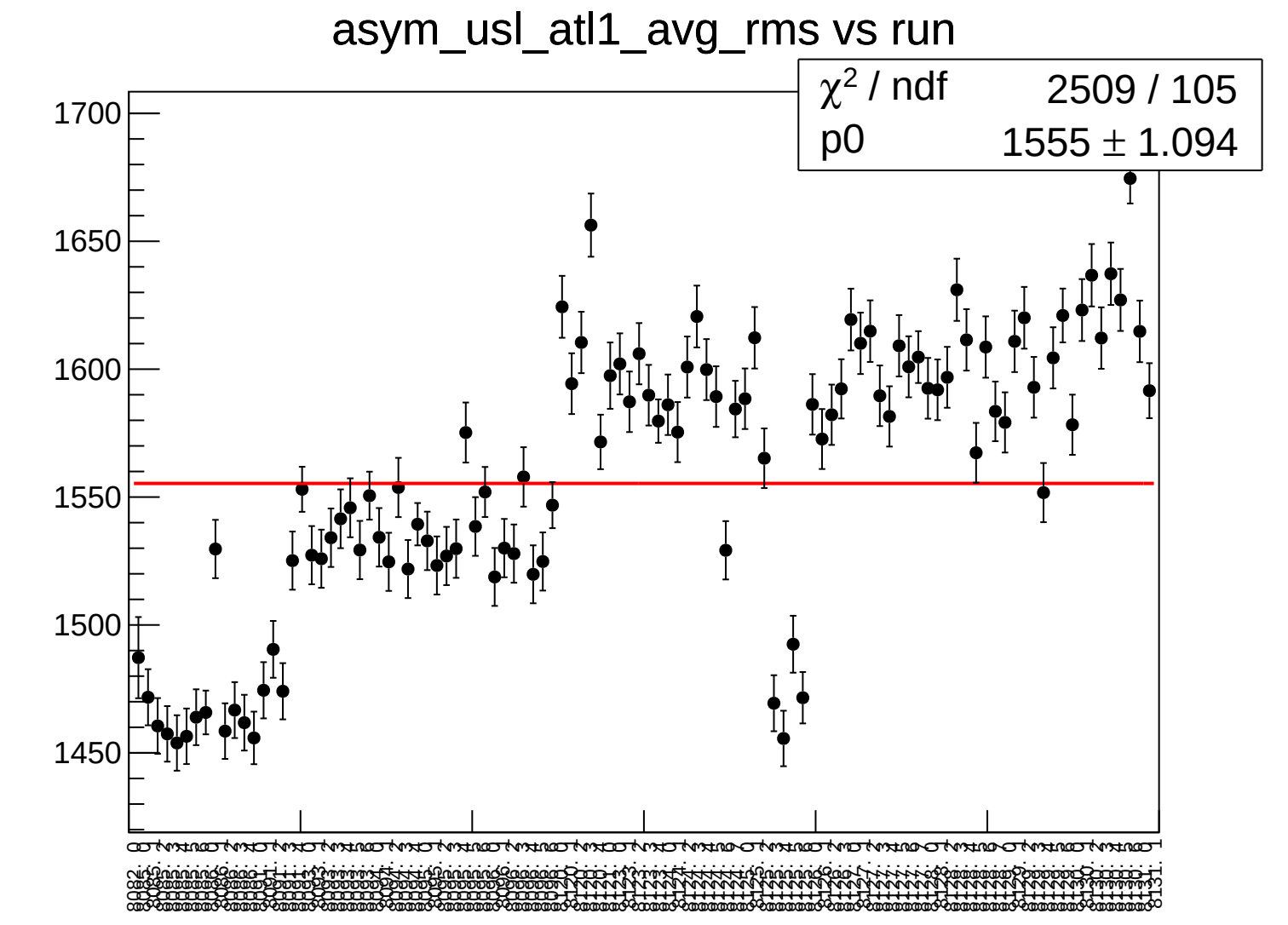

asym_usl_atl1_avg_eigen_dit_correction_mean vs run
χ² / ndf 76.92 / 105
p0 −990.4 ± 614.5
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
pull
Entries 106
Mean −352.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

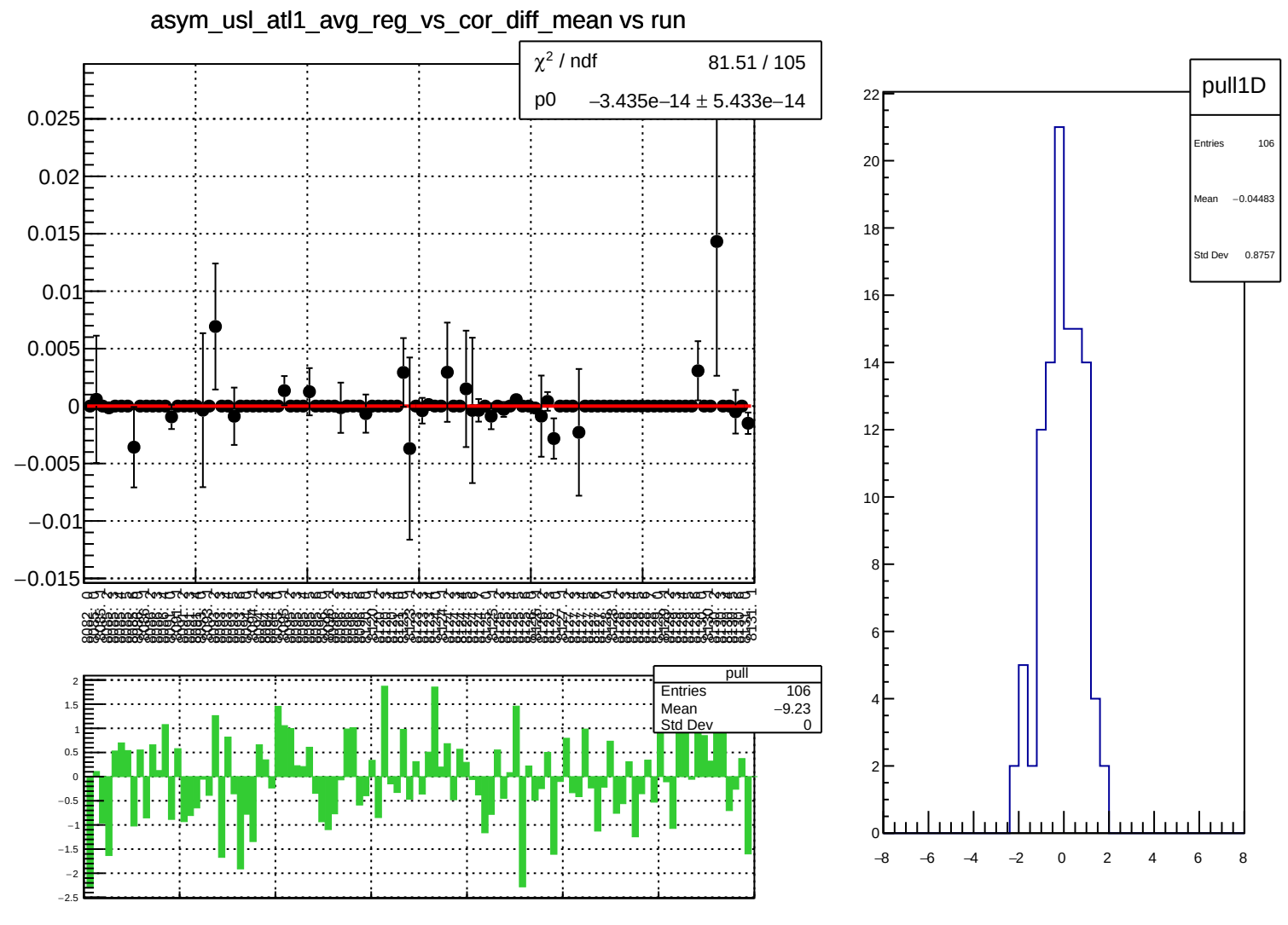

pull1D
Entries 106
Mean −0.0009765
Std Dev 0.8518
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

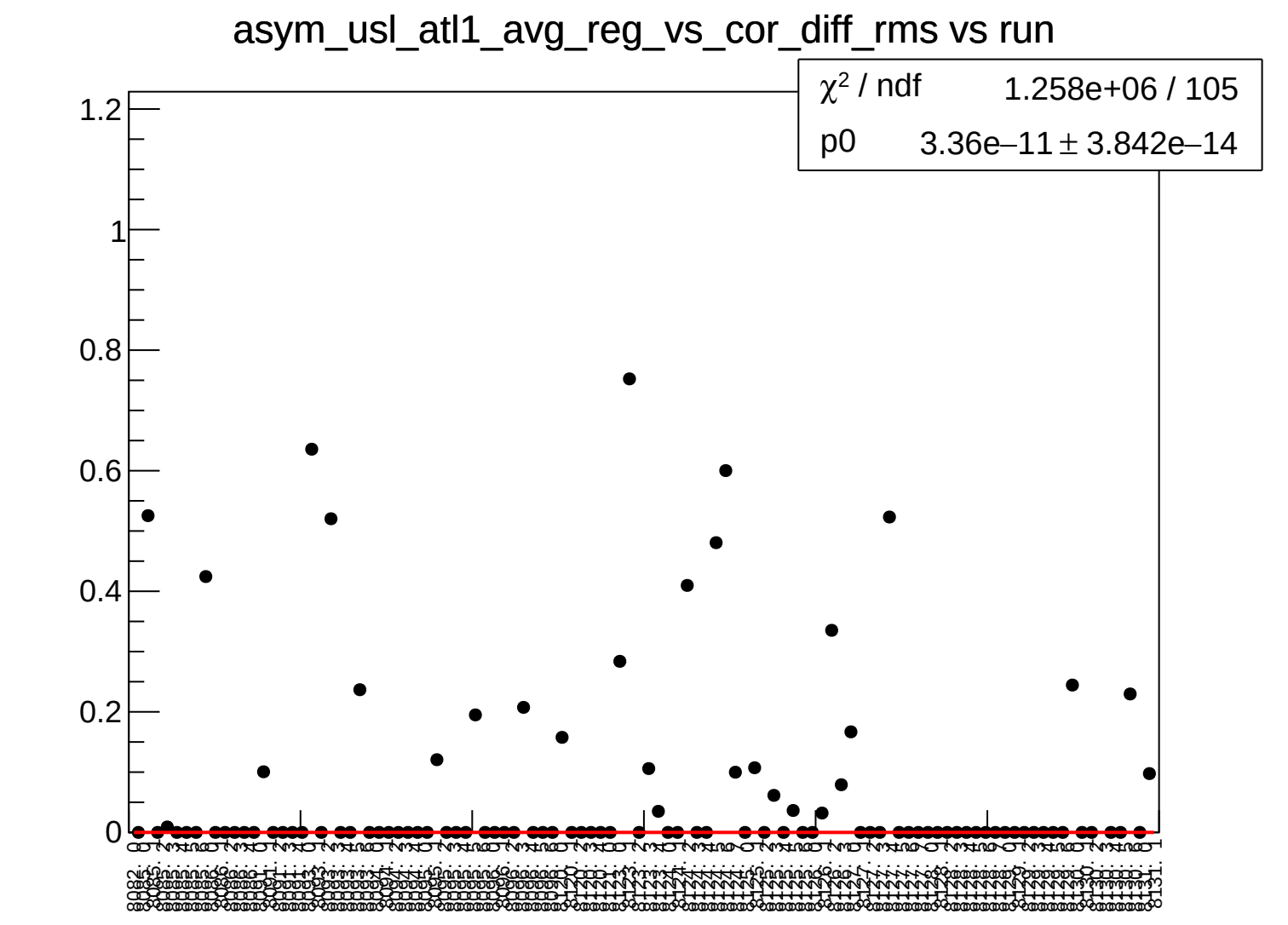

asym_usl_atl1_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.208e+04 / 105
p0 613.1 ± 0.4345
1600
1400
1200
1000
800
600
400

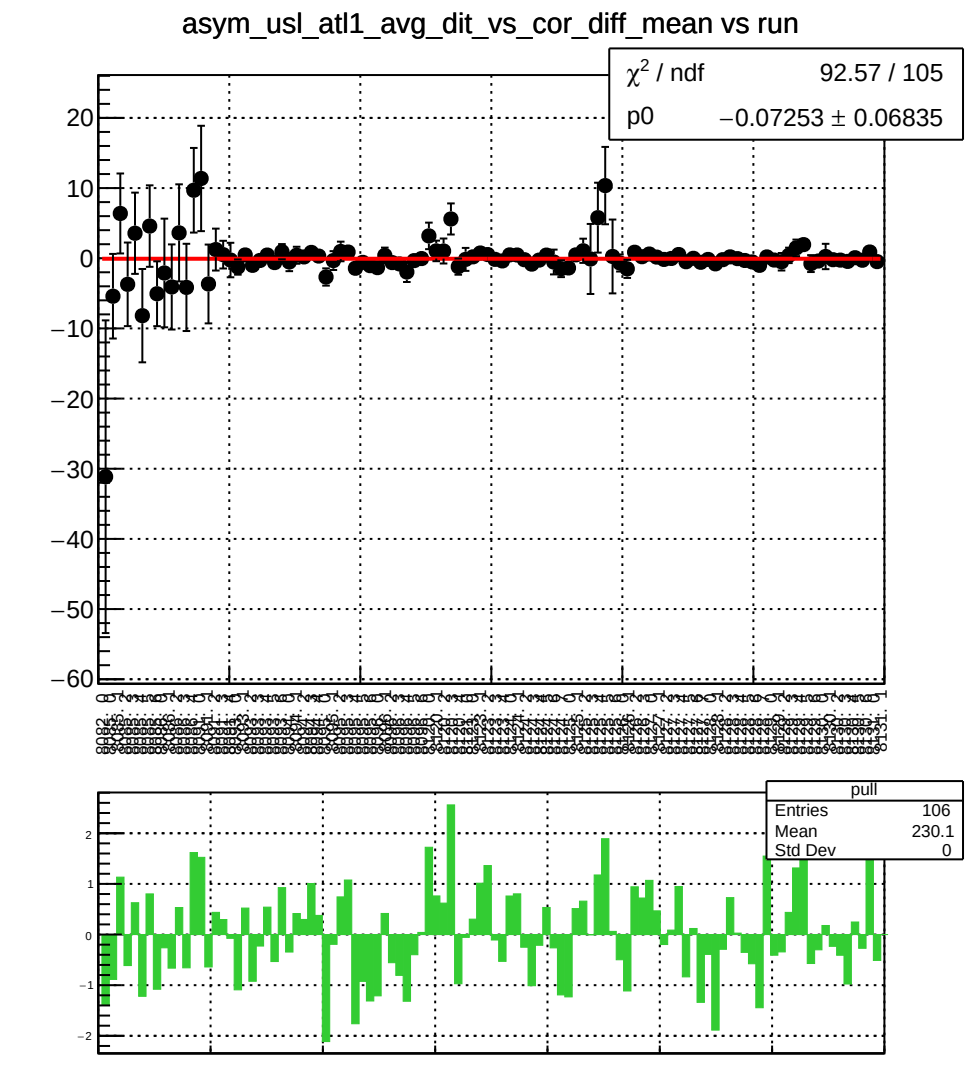

asym_usl_atl1_avg_mean vs run
χ² / ndf 72.81 / 105
p0 598.6 ± 1547
60000
40000
20000
0
−20000
−40000
pull
Entries 106
Mean −0.5254
Std Dev 64.97
2
1.5
1
0.5
0
−0.5
−1
−1.5

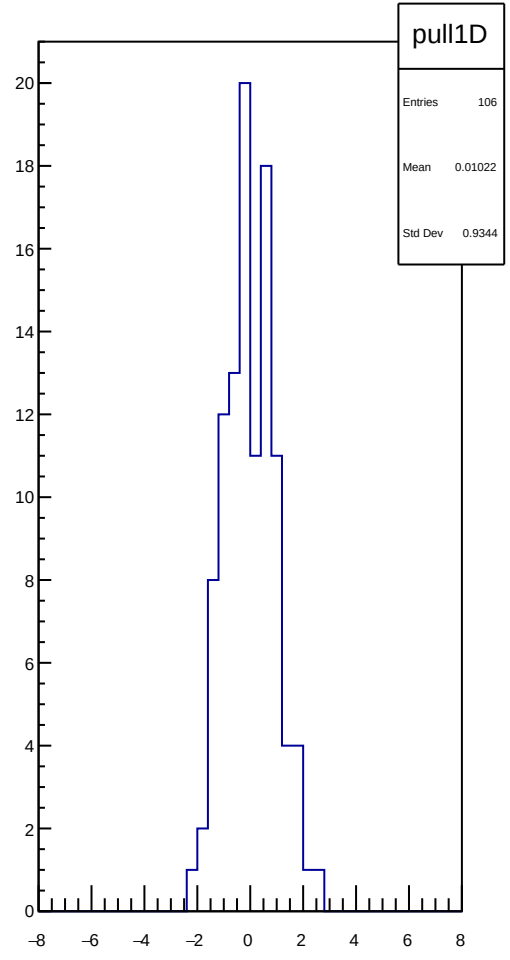

pull1D
Entries 106
Mean 0.009623
Std Dev 0.8287
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

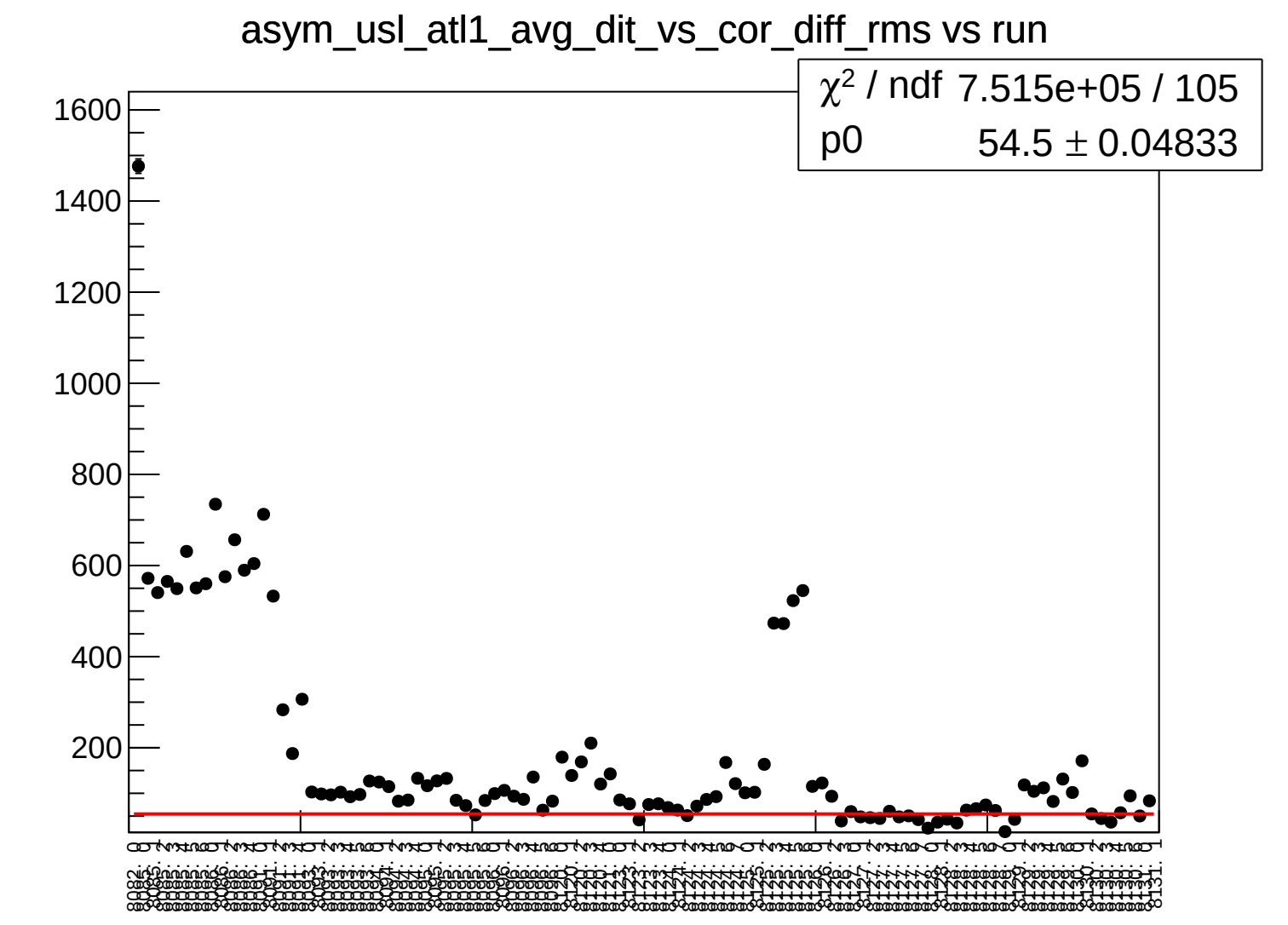

asym_usl_atl1_avg_rms vs run
χ² / ndf 2509 / 105
p0 1555 ± 1.094
1700
1650
1600
1550
1500
1450

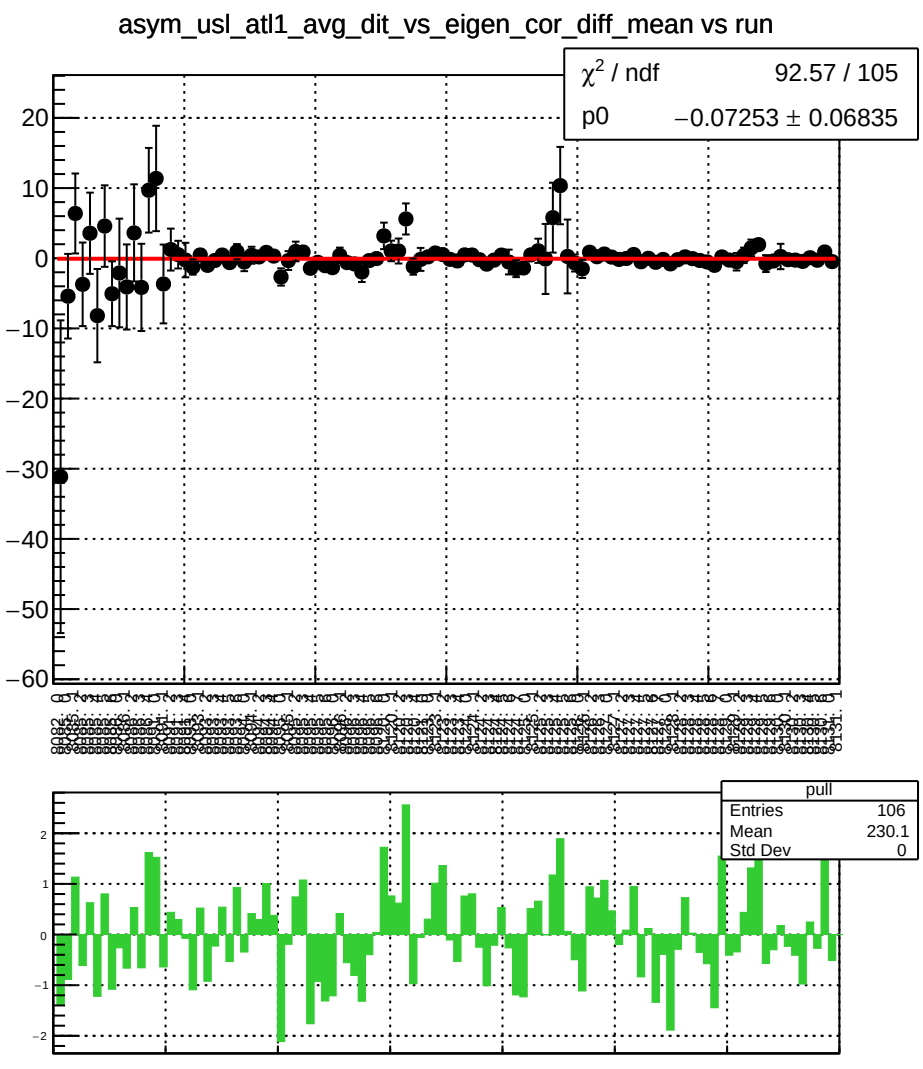

asym_usl_atl1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 81.51 / 105
p0 −3.435e−14 ± 5.433e−14
pull
Entries 106
Mean −9.23
Std Dev 0
pull1D
Entries 106
Mean −0.04483
Std Dev 0.8757

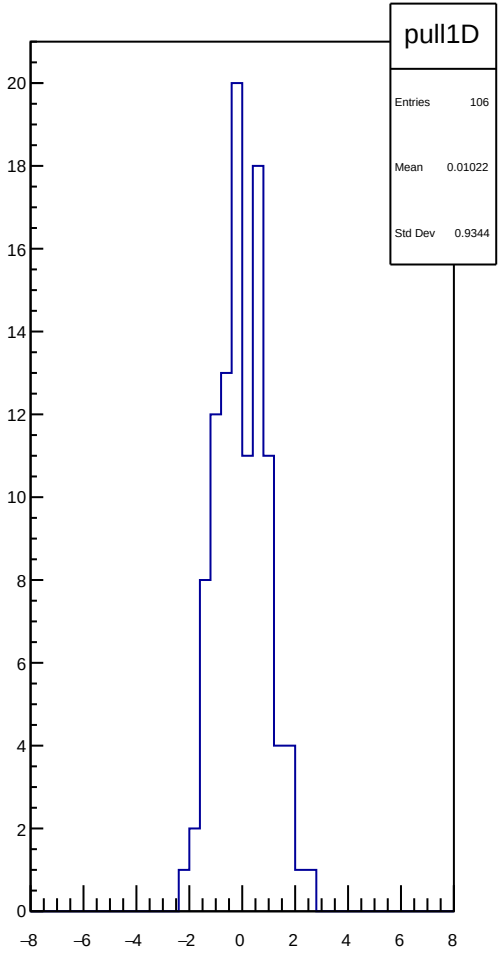

asym_usl_atl1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.258e+06 / 105
p0 3.36e−11 ± 3.842e−14
1.2
1
0.8
0.6
0.4
0.2
0

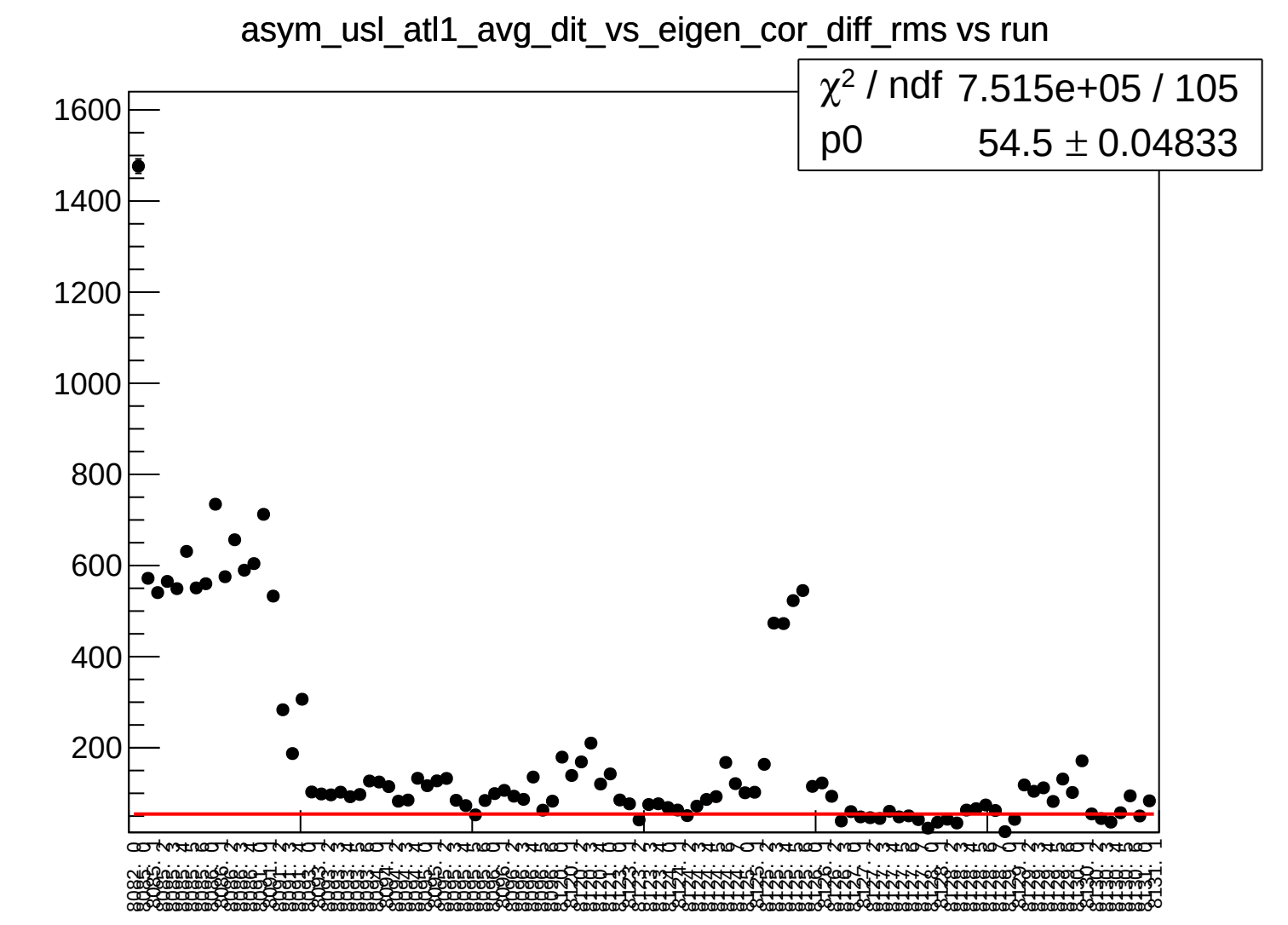

asym_usl_atl1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 92.57 / 105
p0 −0.07253 ± 0.06835
pull
Entries 106
Mean 230.1
Std Dev 0

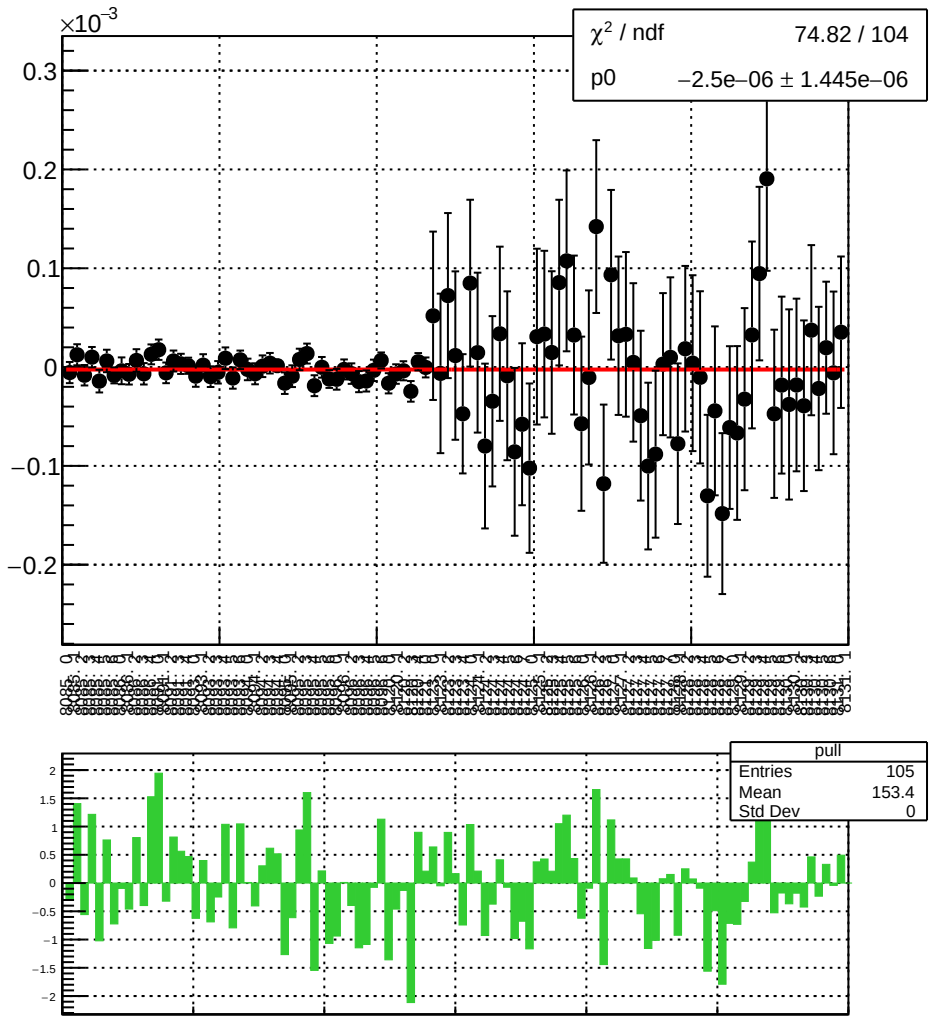

pull1D
Entries 106
Mean 0.01022
Std Dev 0.9344

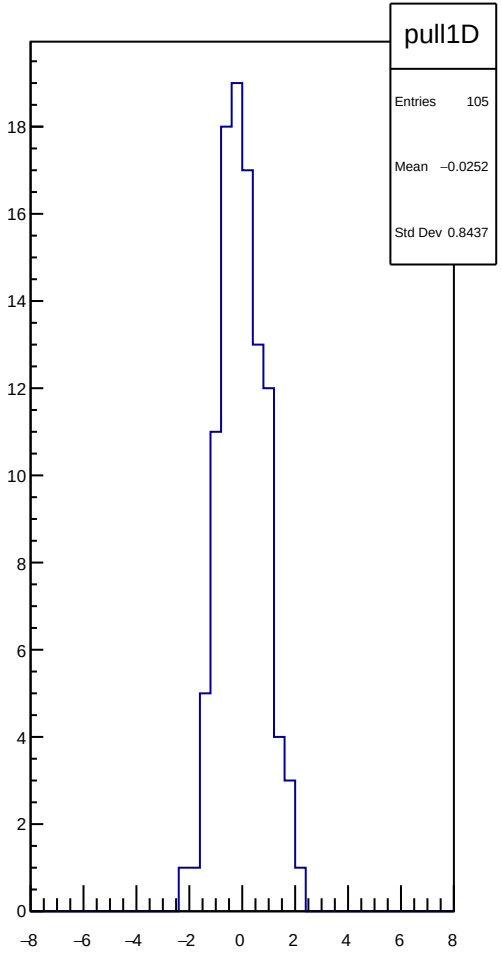

asym_usl_atl1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.515e+05 / 105
p0 54.5 ± 0.04833
1600
1400
1200
1000
800
600
400
200

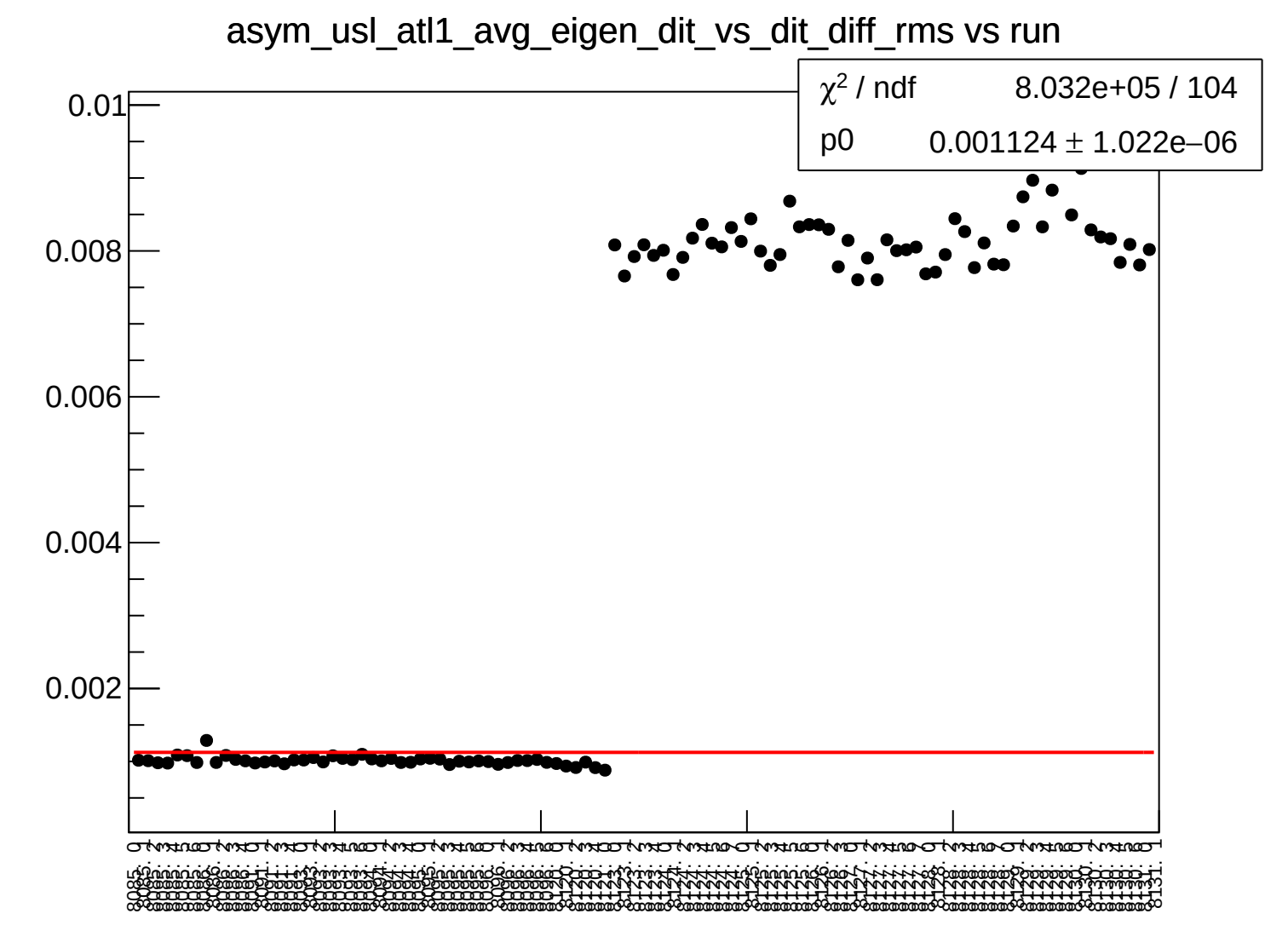

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.57 / 105
p0 −0.07253 ± 0.06835
pull
Entries 106
Mean 230.1
Std Dev 0

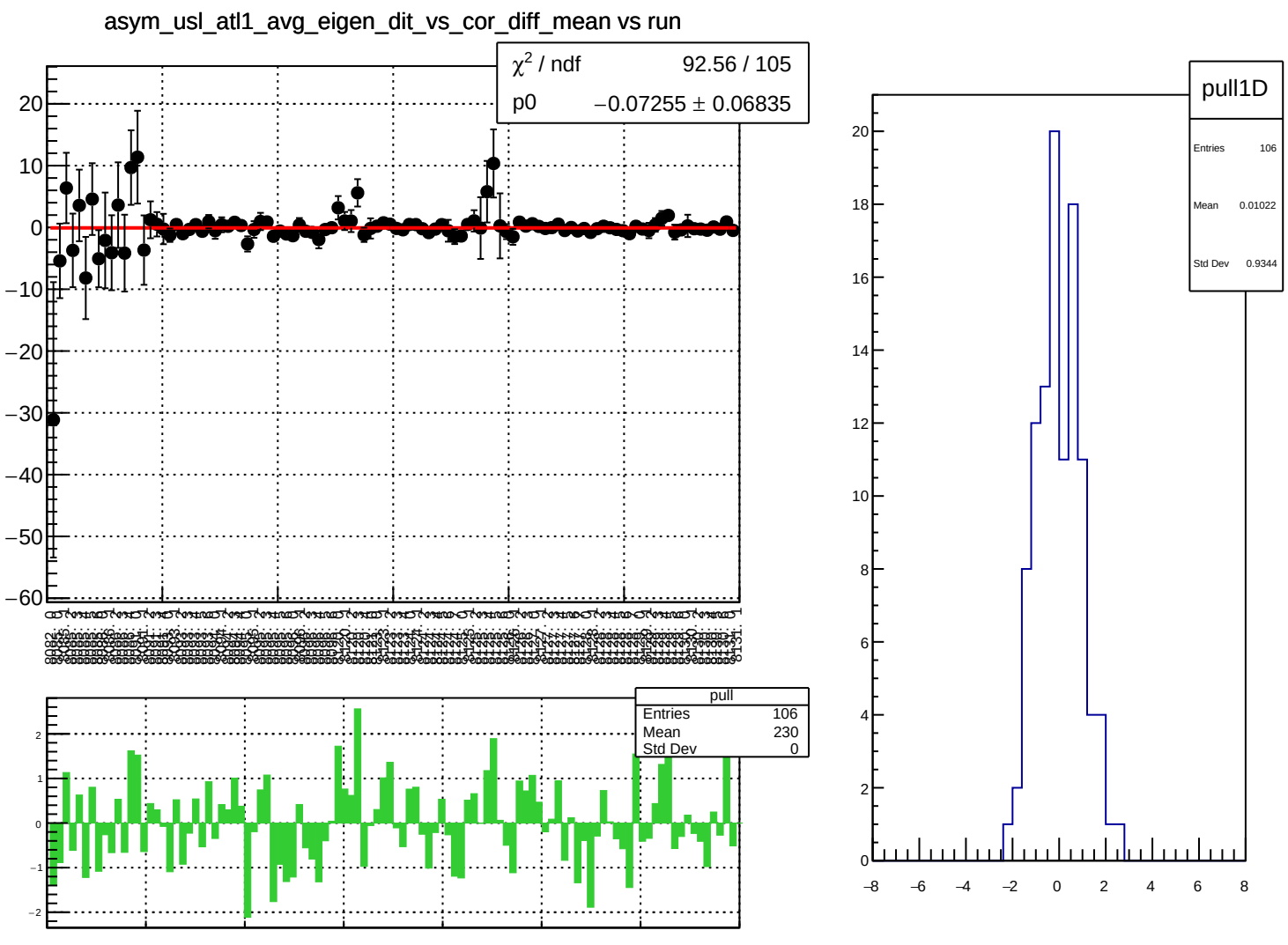

pull1D
Entries 106
Mean 0.01022
Std Dev 0.9344

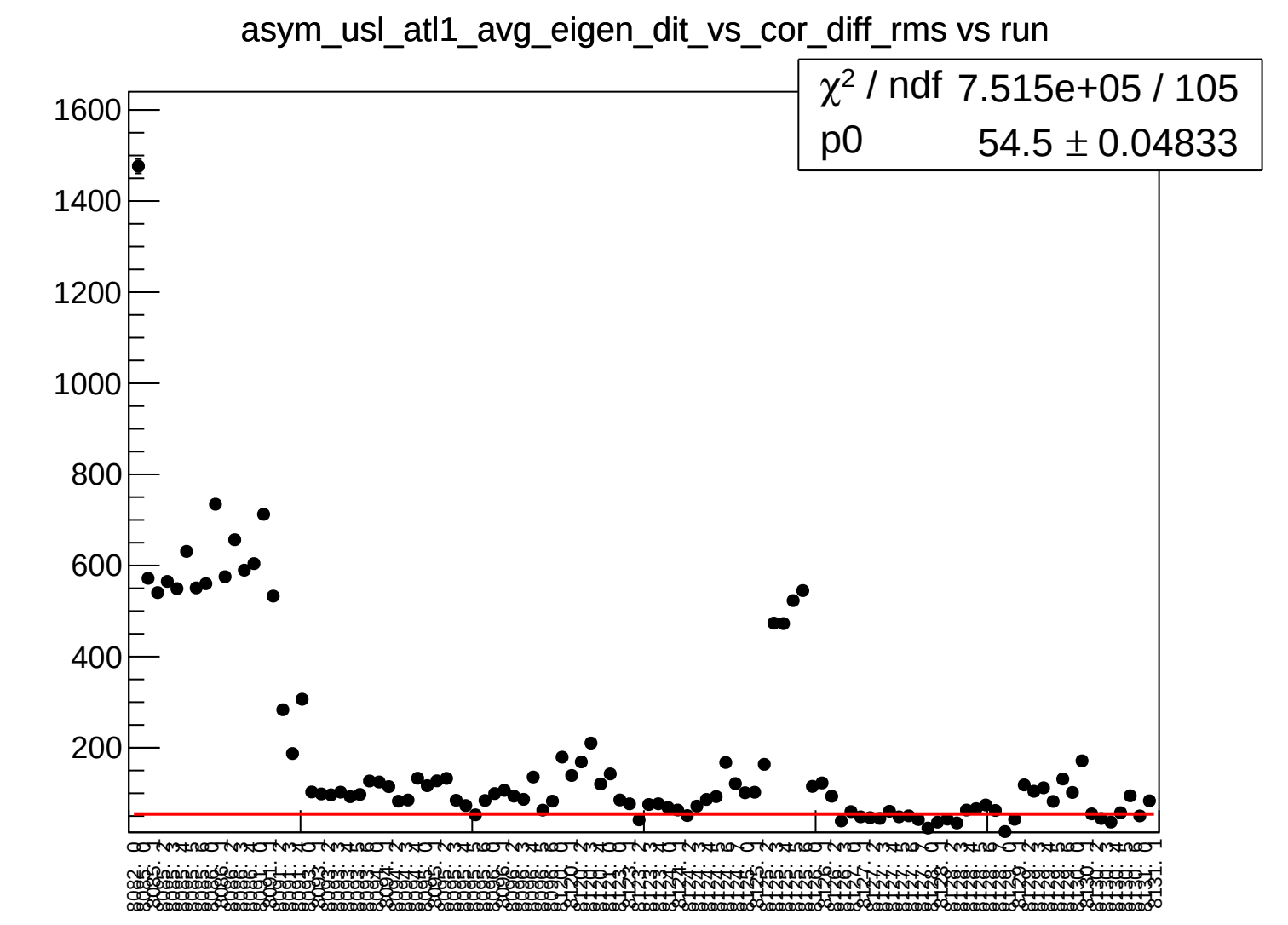

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.515e+05 / 105
p0 54.5 ± 0.04833
1600
1400
1200
1000
800
600
400
200

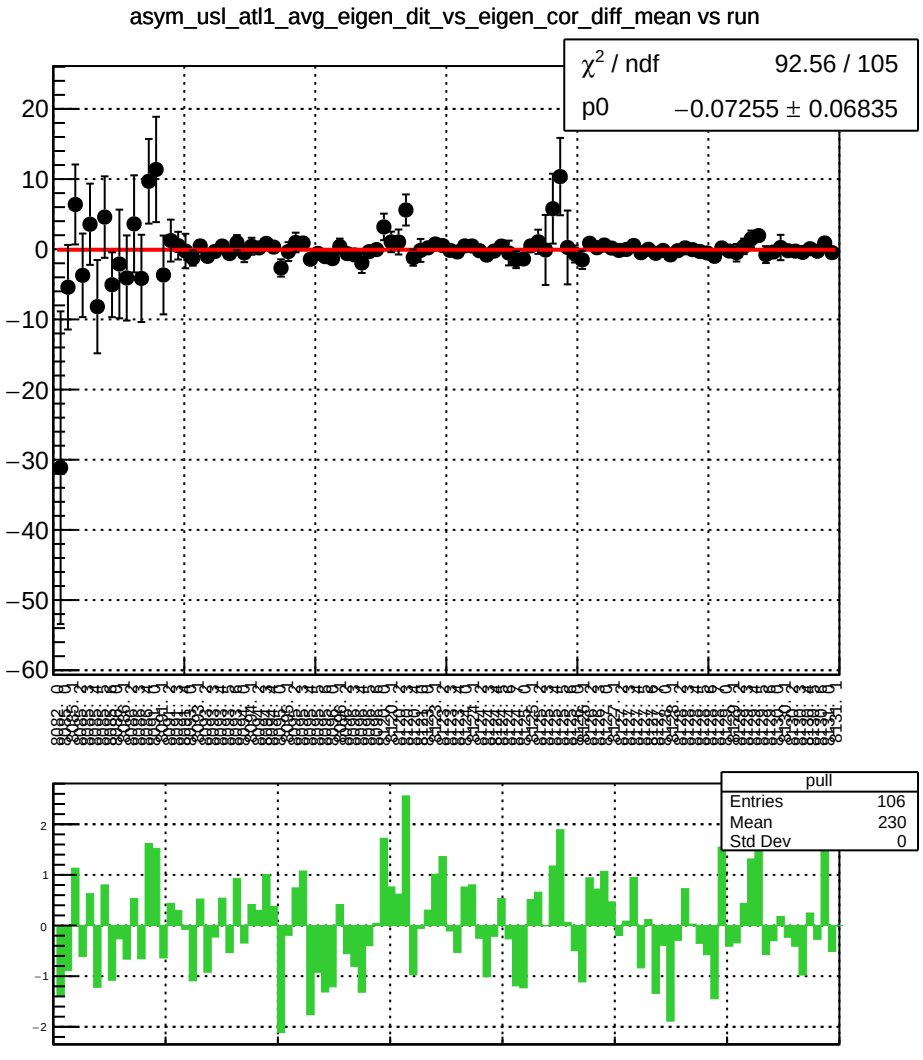

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 74.82 / 104
p0 −2.5e−06 ± 1.445e−06
pull
Entries 105
Mean 153.4
Std Dev 0

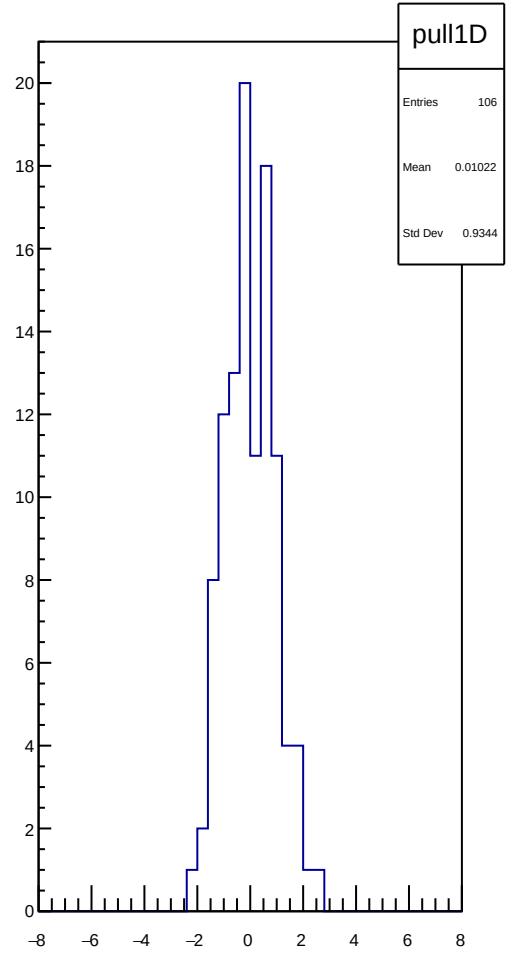

pull1D
Entries 105
Mean −0.0252
Std Dev 0.8437

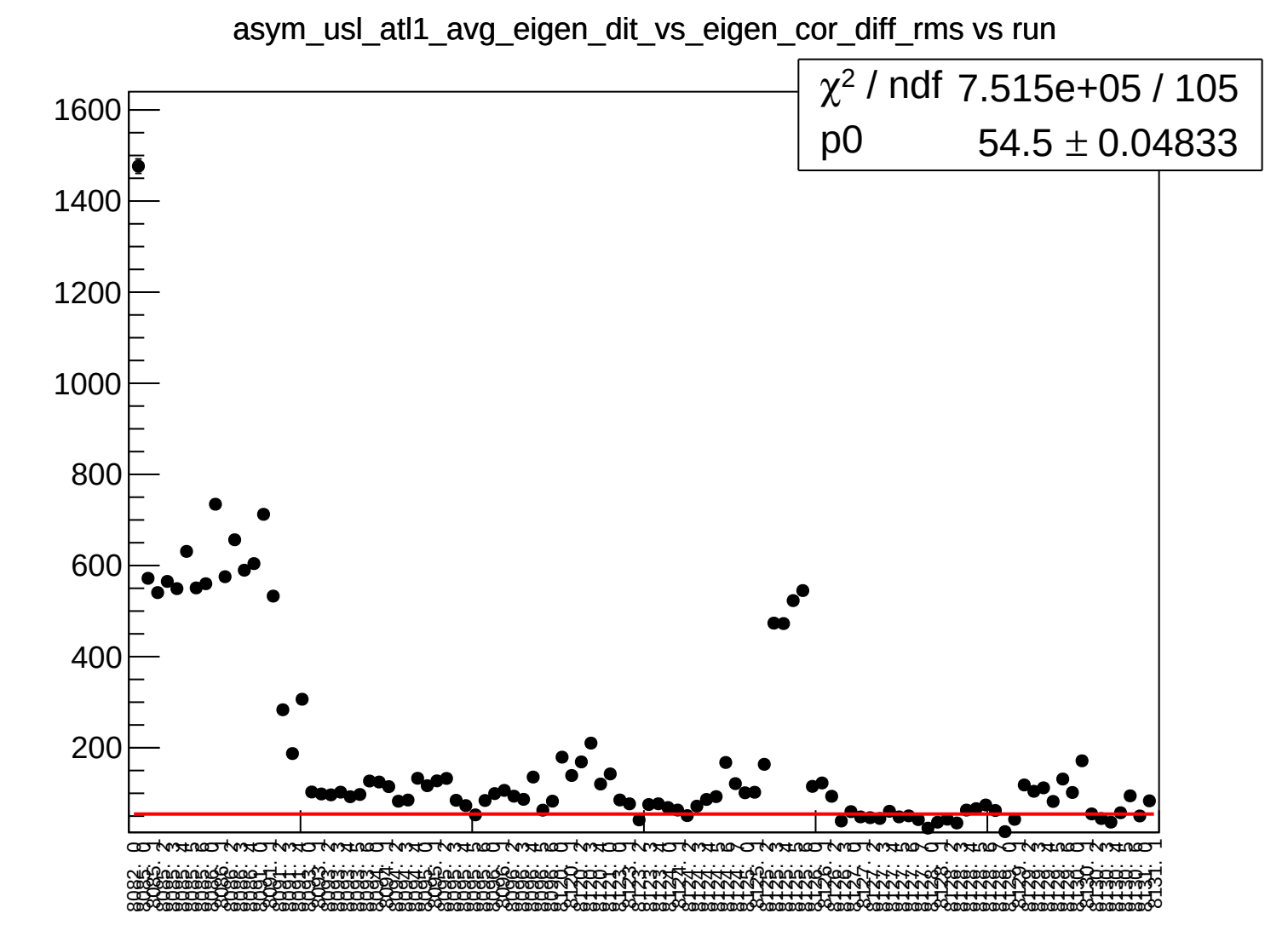

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.032e+05 / 104
p0 0.001124 ± 1.022e−06
0.01
0.008
0.006
0.004
0.002

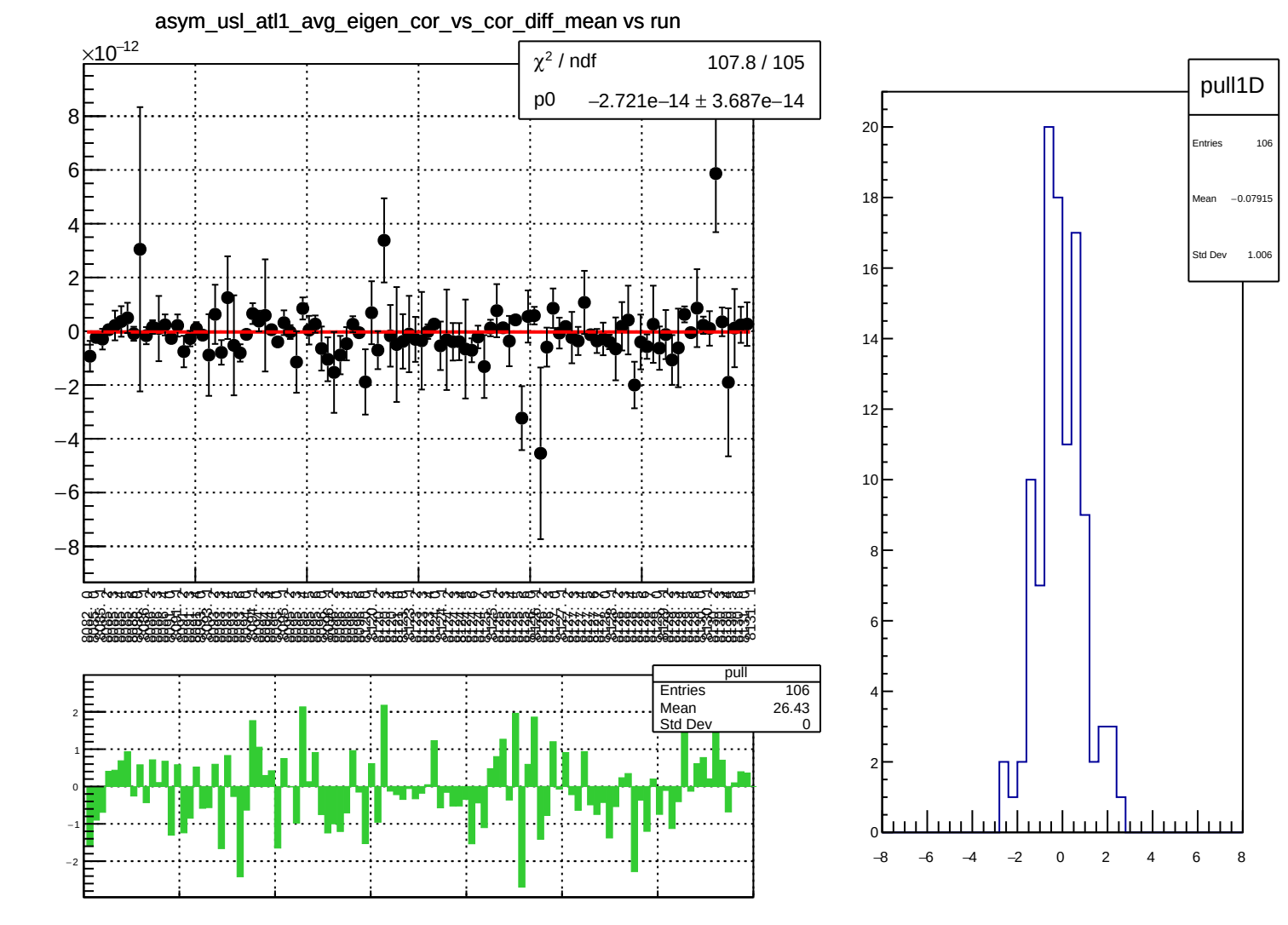

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.56 / 105
p0 −0.07255 ± 0.06835
pull
Entries 106
Mean 230
Std Dev 0
pull1D
Entries 106
Mean 0.01022
Std Dev 0.9344

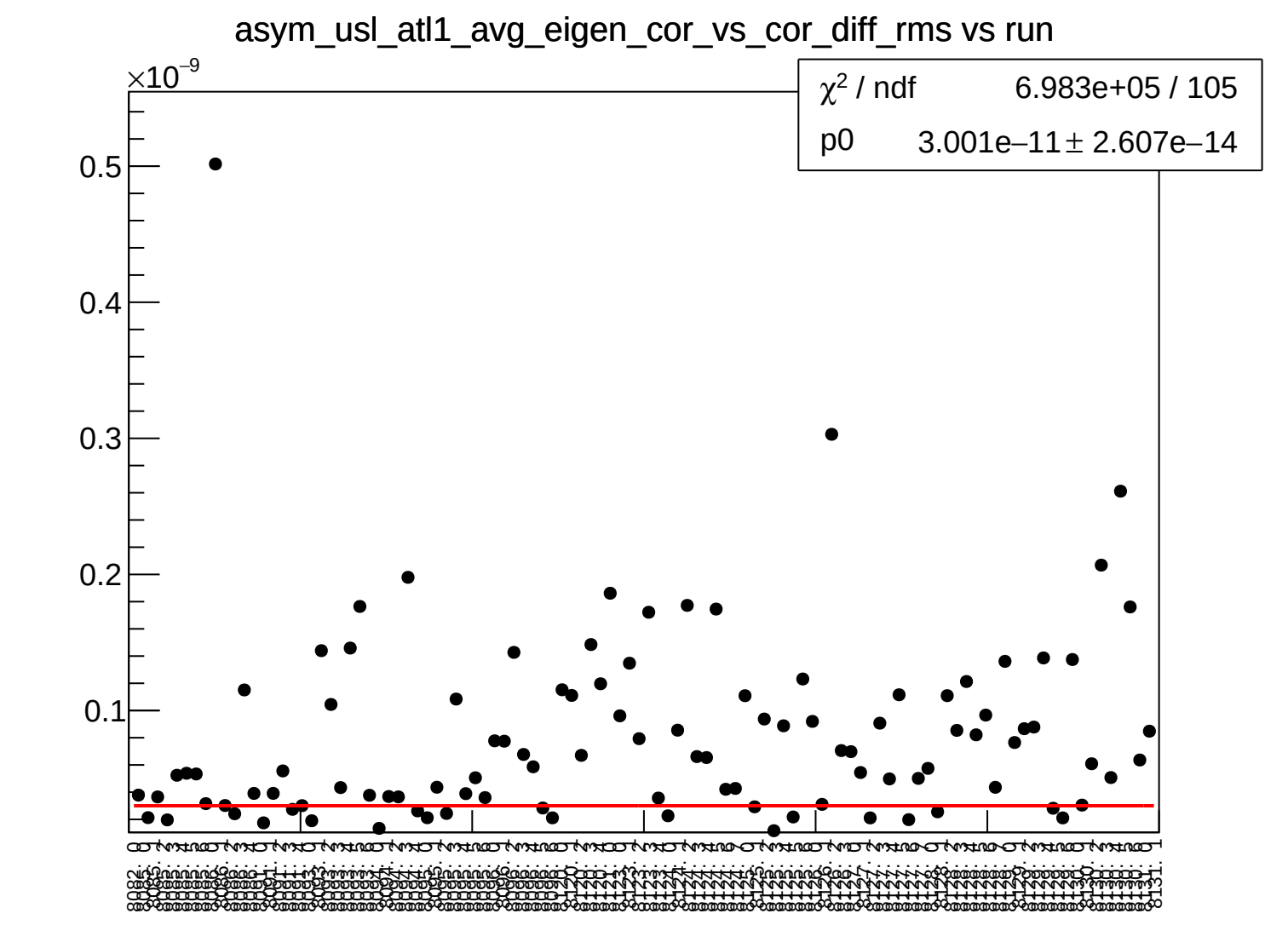

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.515e+05 / 105
p0 54.5 ± 0.04833
1600
1400
1200
1000
800
600
400
200

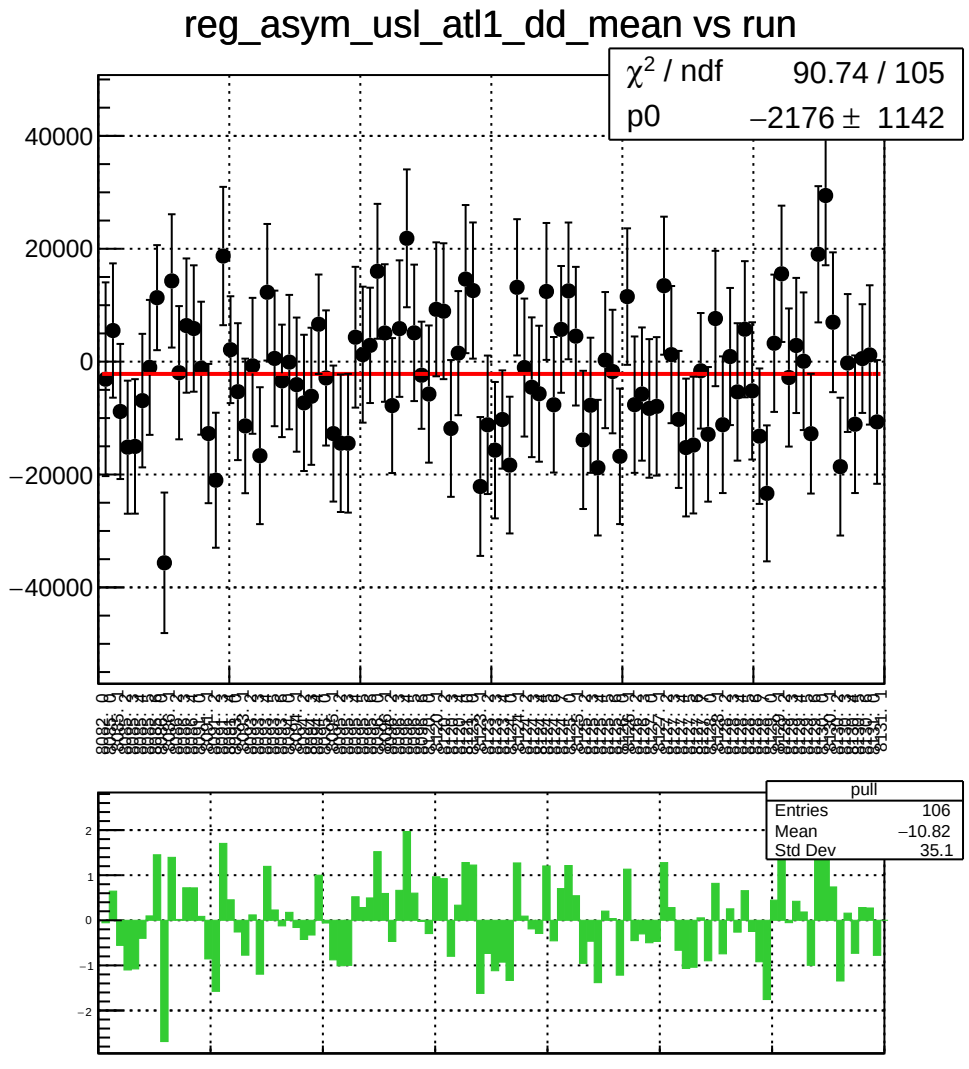

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.56 / 105
p0 −0.07255 ± 0.06835
pull
Entries 106
Mean 230
Std Dev 0

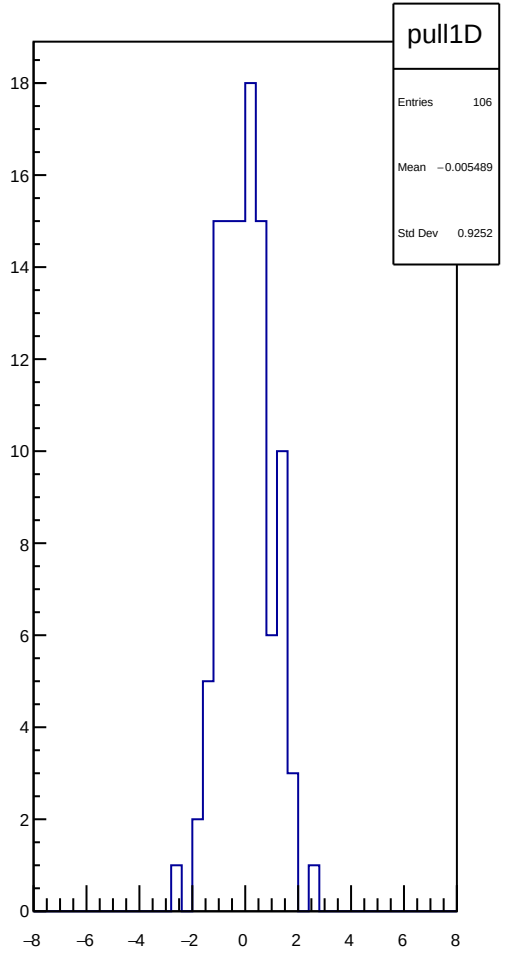

pull1D
Entries 106
Mean 0.01022
Std Dev 0.9344

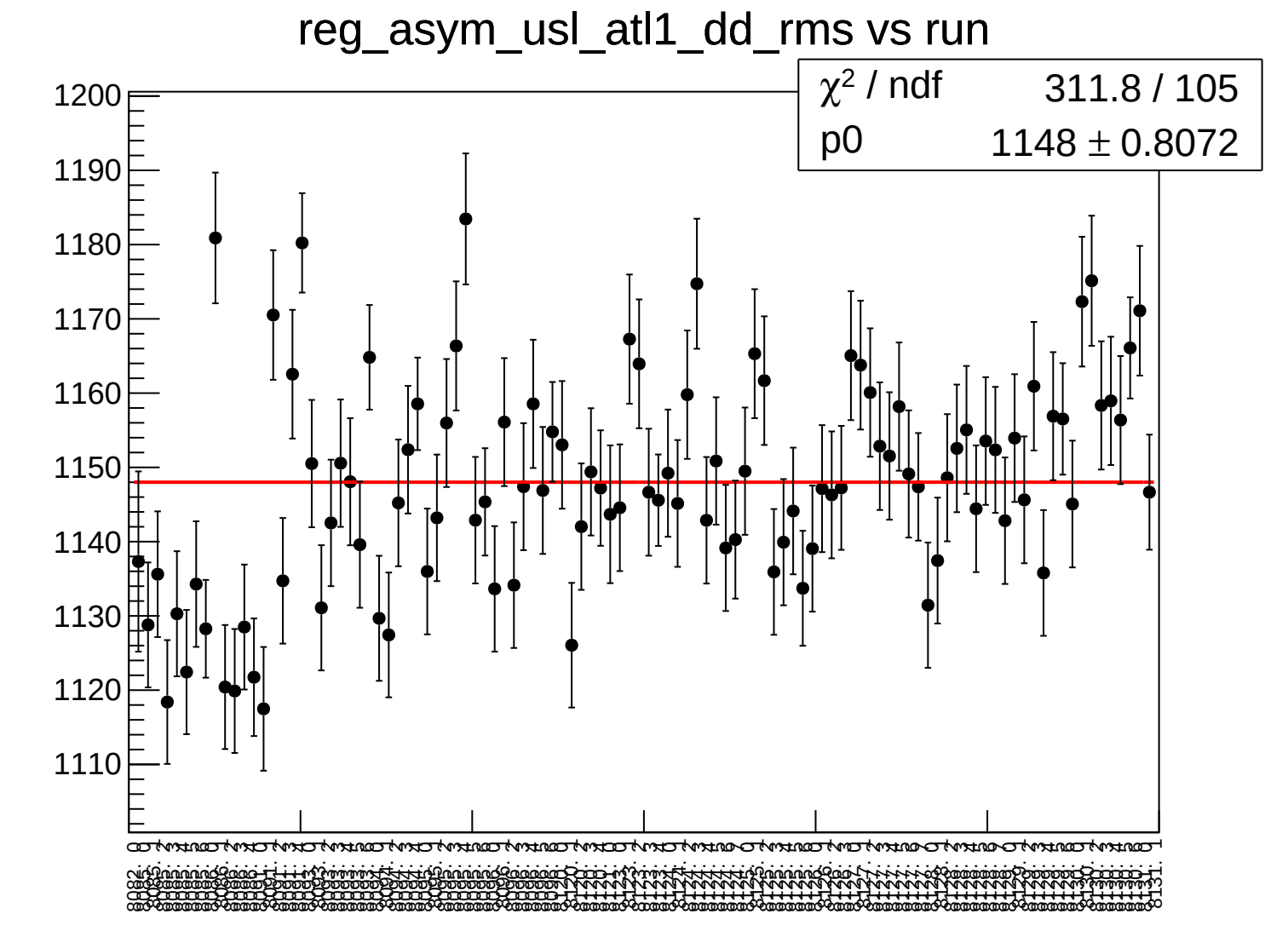

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.515e+05 / 105
p0 54.5 ± 0.04833
1600
1400
1200
1000
800
600
400
200

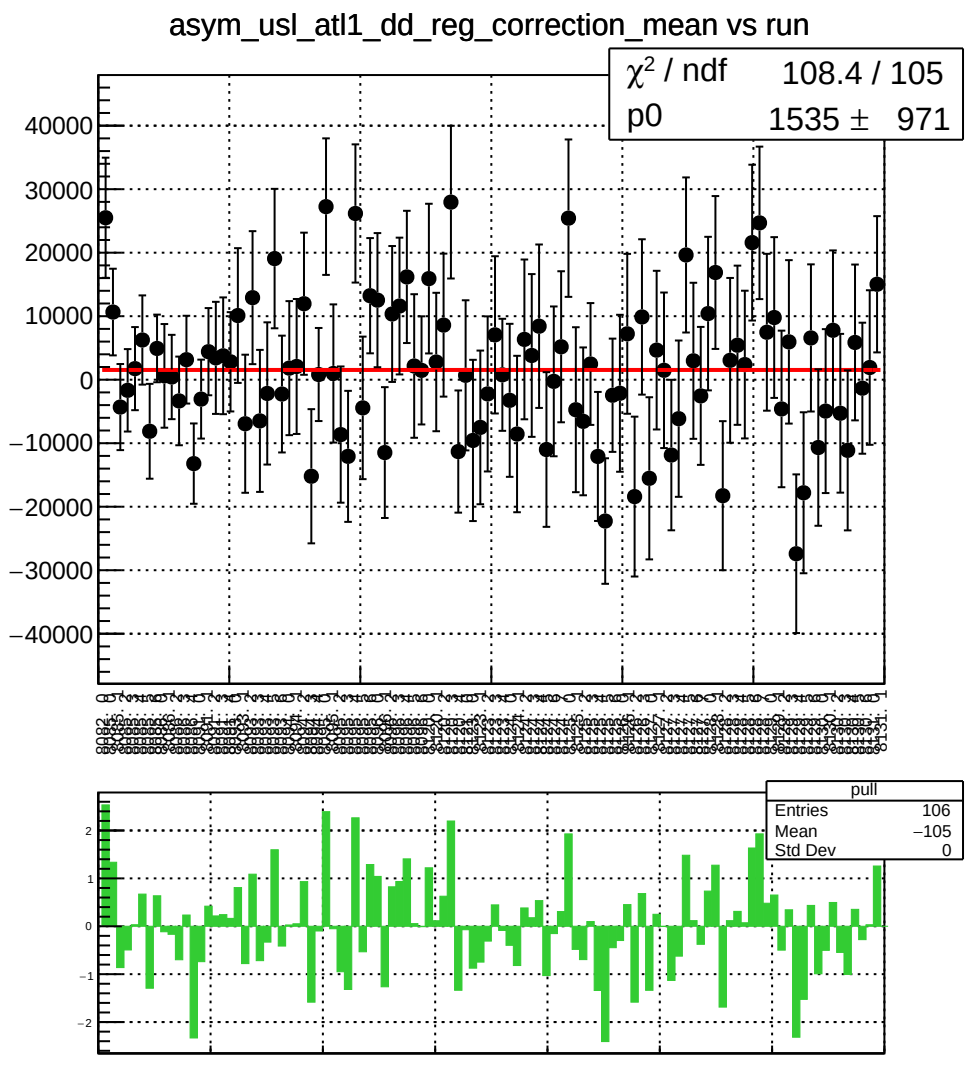

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 107.8 / 105
p0 −2.721e−14 ± 3.687e−14
pull
Entries 106
Mean 26.43
Std Dev 0
pull1D
Entries 106
Mean −0.07915
Std Dev 1.006

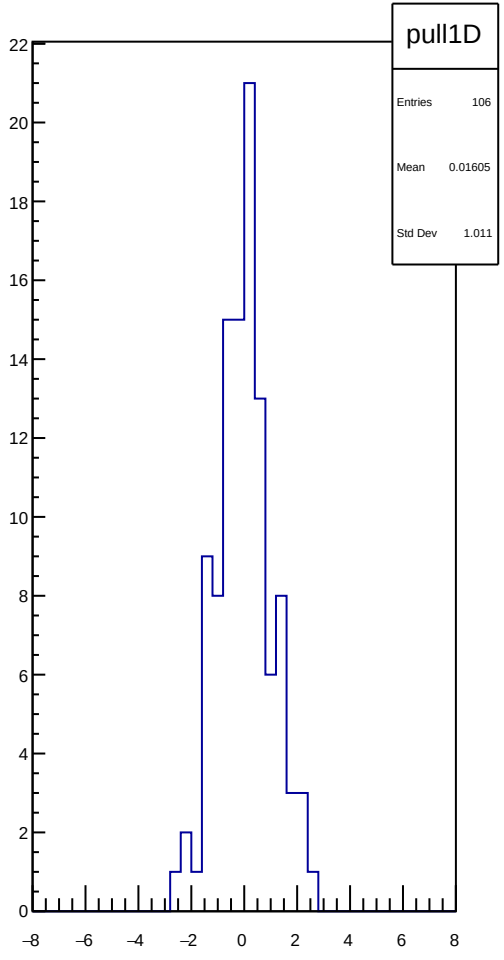

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.983e+05 / 105
p0 3.001e−11 ± 2.607e−14
0.5
0.4
0.3
0.2
0.1

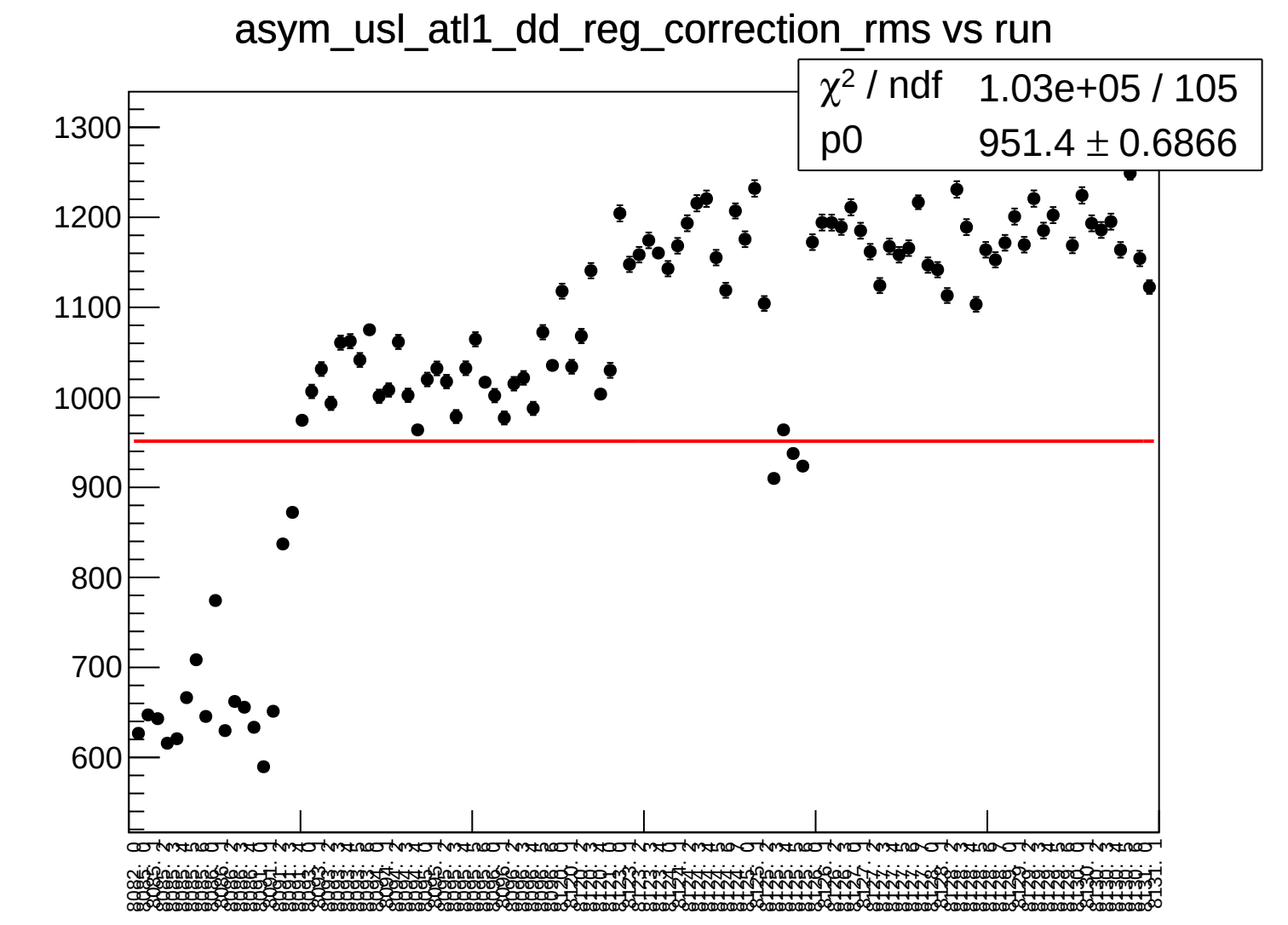

reg_asym_usl_atl1_dd_mean vs run
χ² / ndf 90.74 / 105
p0 −2176 ± 1142
40000
20000
0
−20000
−40000
pull
Entries 106
Mean −10.82
Std Dev 35.1
2
1
0
−1
−2

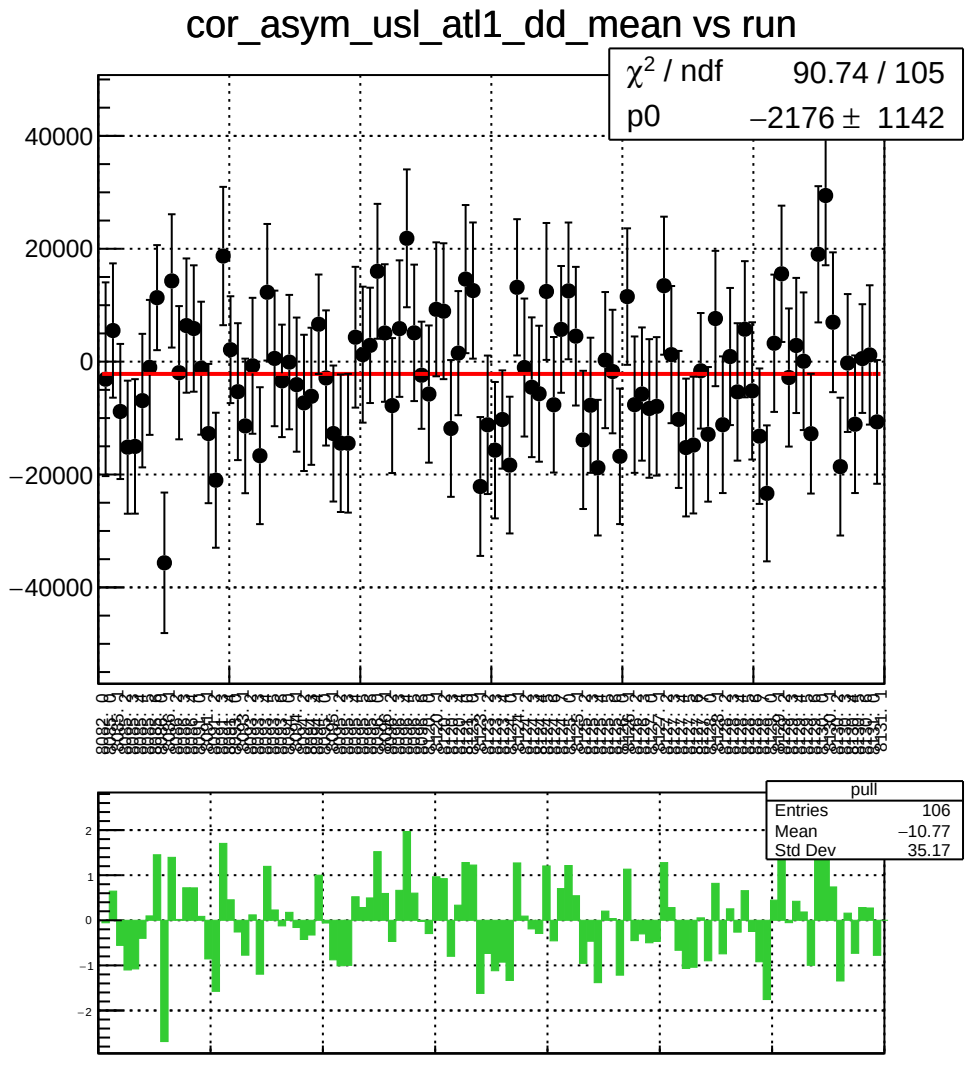

pull1D
Entries 106
Mean −0.005489
Std Dev 0.9252
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

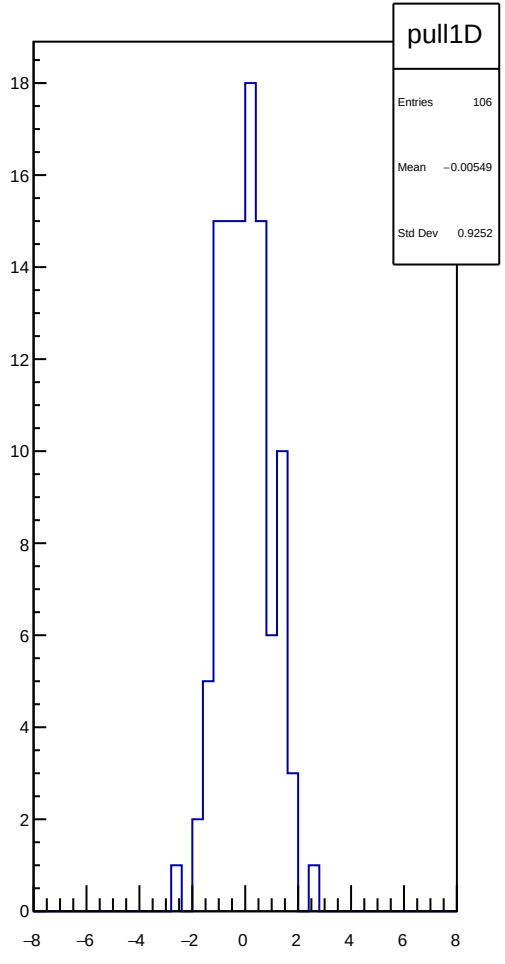

reg_asym_usl_atl1_dd_rms vs run
χ² / ndf 311.8 / 105
p0 1148 ± 0.8072
1200
1190
1180
1170
1160
1150
1140
1130
1120
1110

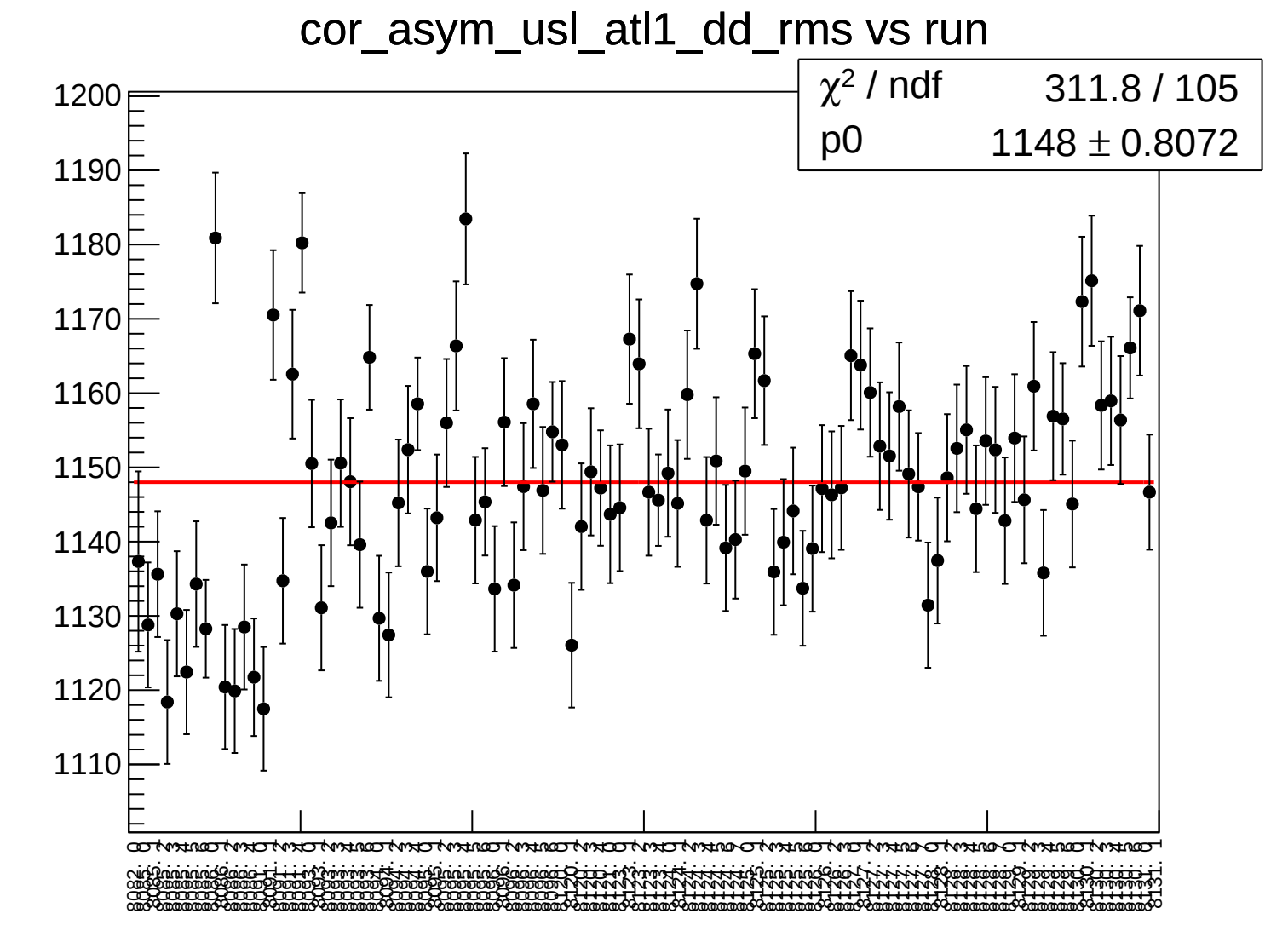

asym_usl_atl1_dd_reg_correction_mean vs run
χ² / ndf 108.4 / 105
p0 1535 ± 971
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 106
Mean −105
Std Dev 0
2
1
0
−1
−2

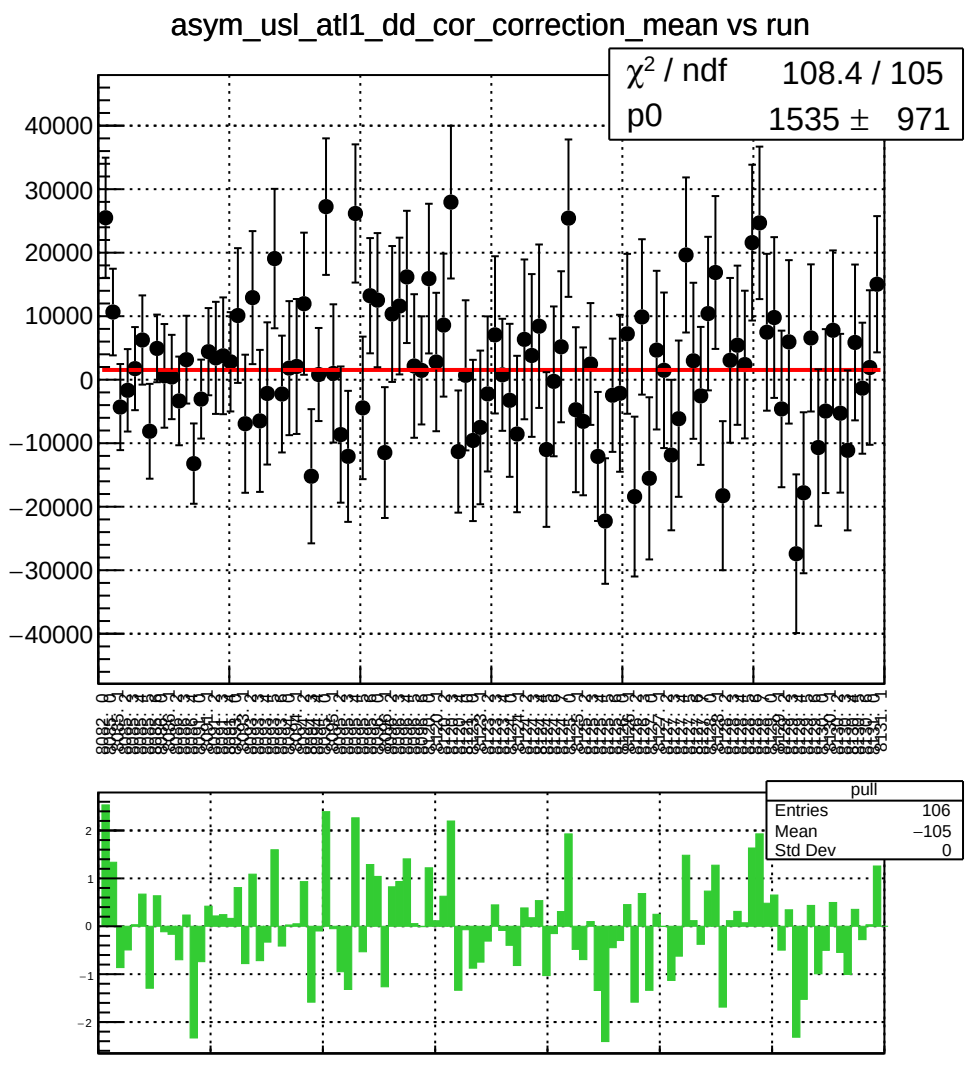

pull1D
Entries 106
Mean 0.01605
Std Dev 1.011
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

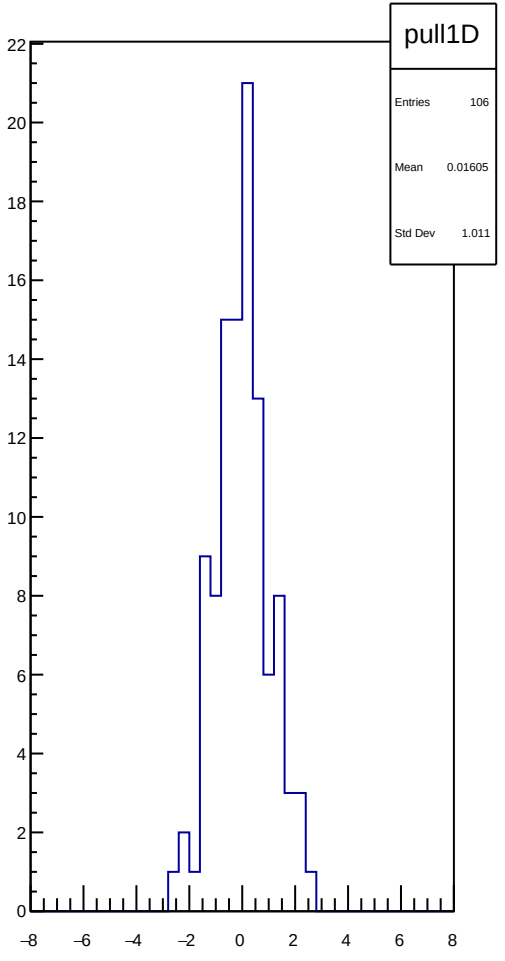

asym_usl_atl1_dd_reg_correction_rms vs run
χ² / ndf 1.03e+05 / 105
p0 951.4 ± 0.6866
1300
1200
1100
1000
900
800
700
600

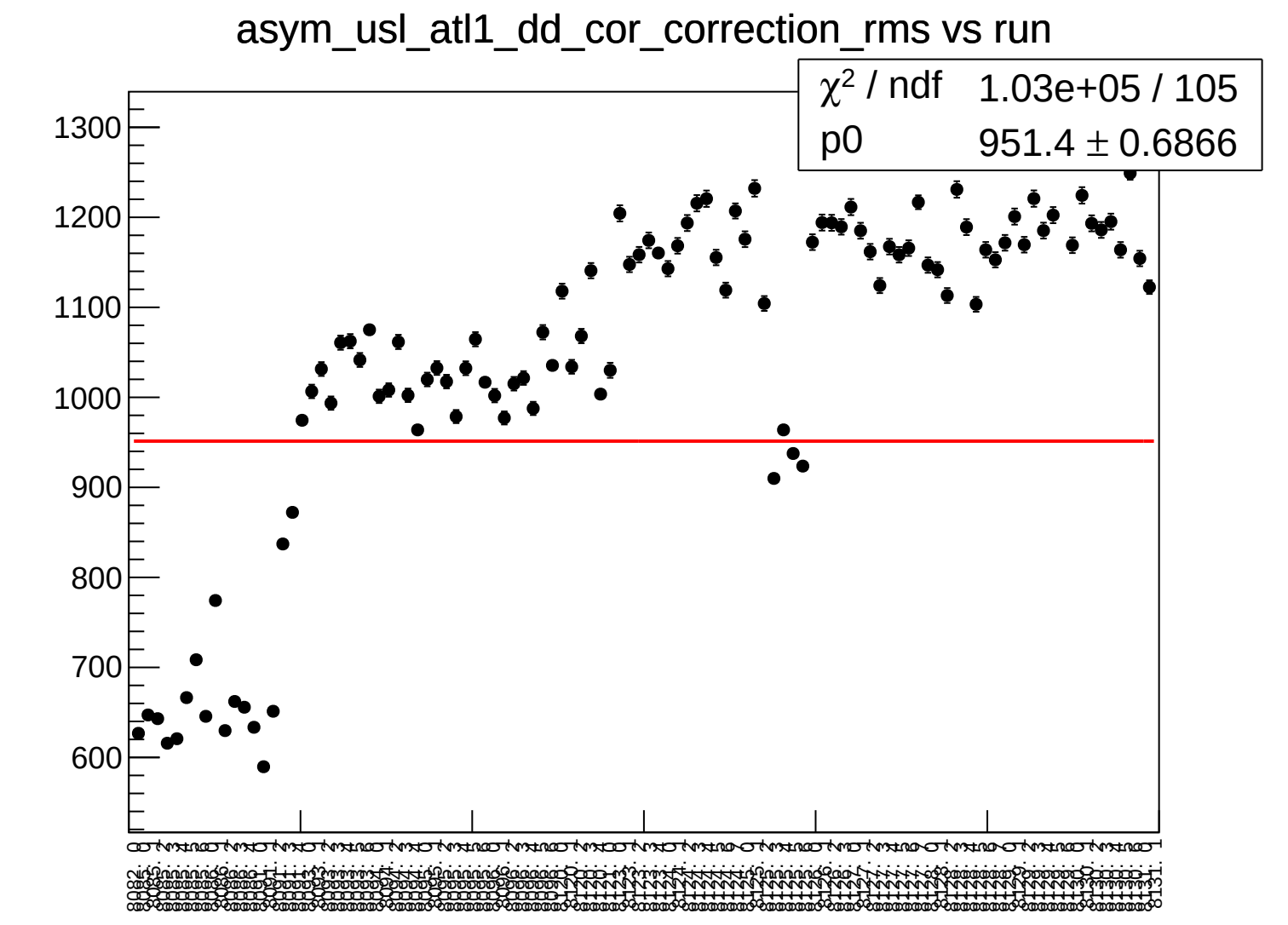

cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 90.74 / 105
p0 −2176 ± 1142
40000
20000
0
−20000
−40000
pull
Entries 106
Mean −10.77
Std Dev 35.17
2
1
0
−1
−2

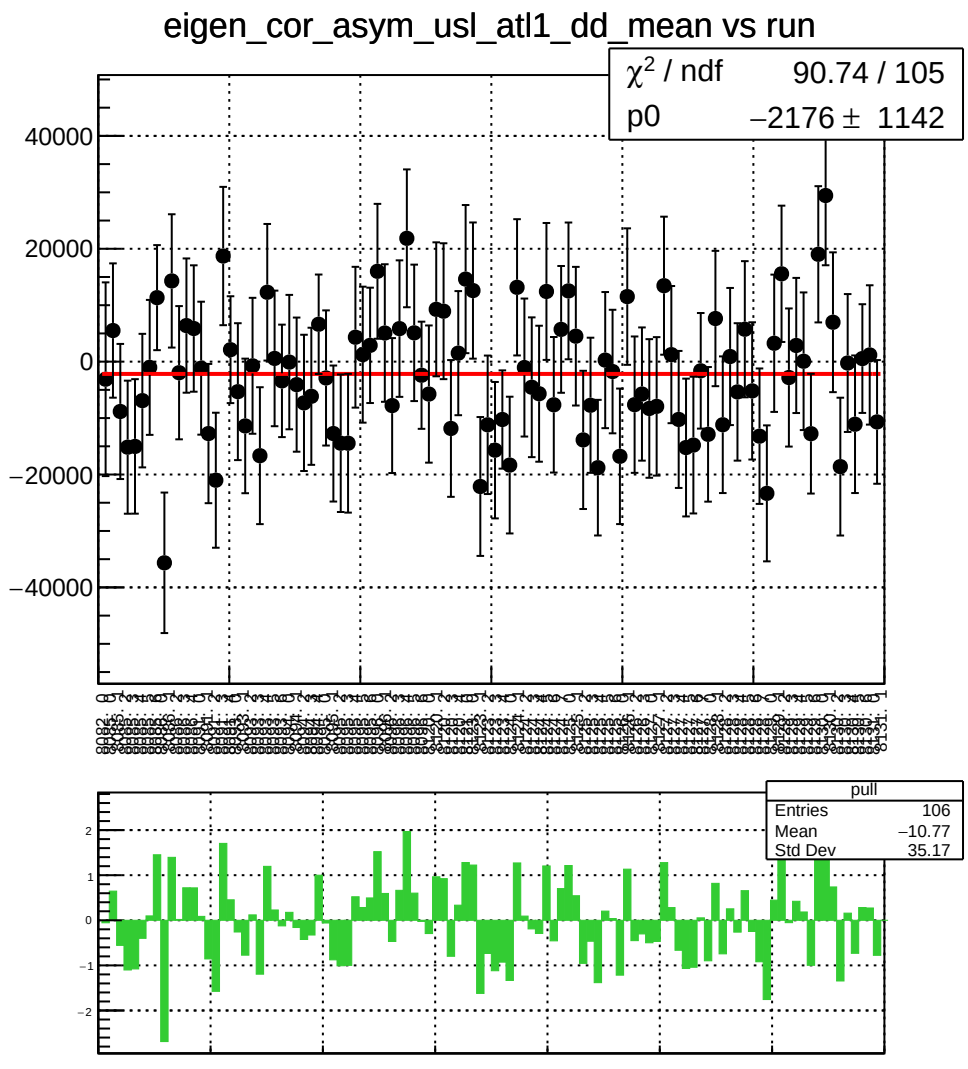

pull1D
Entries 106
Mean −0.00549
Std Dev 0.9252
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

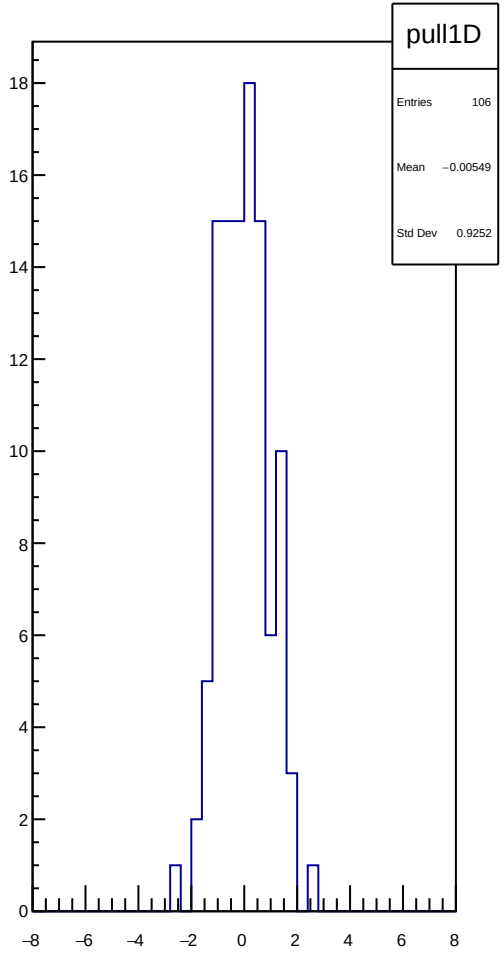

cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 311.8 / 105
p0 1148 ± 0.8072
1200
1190
1180
1170
1160
1150
1140
1130
1120
1110

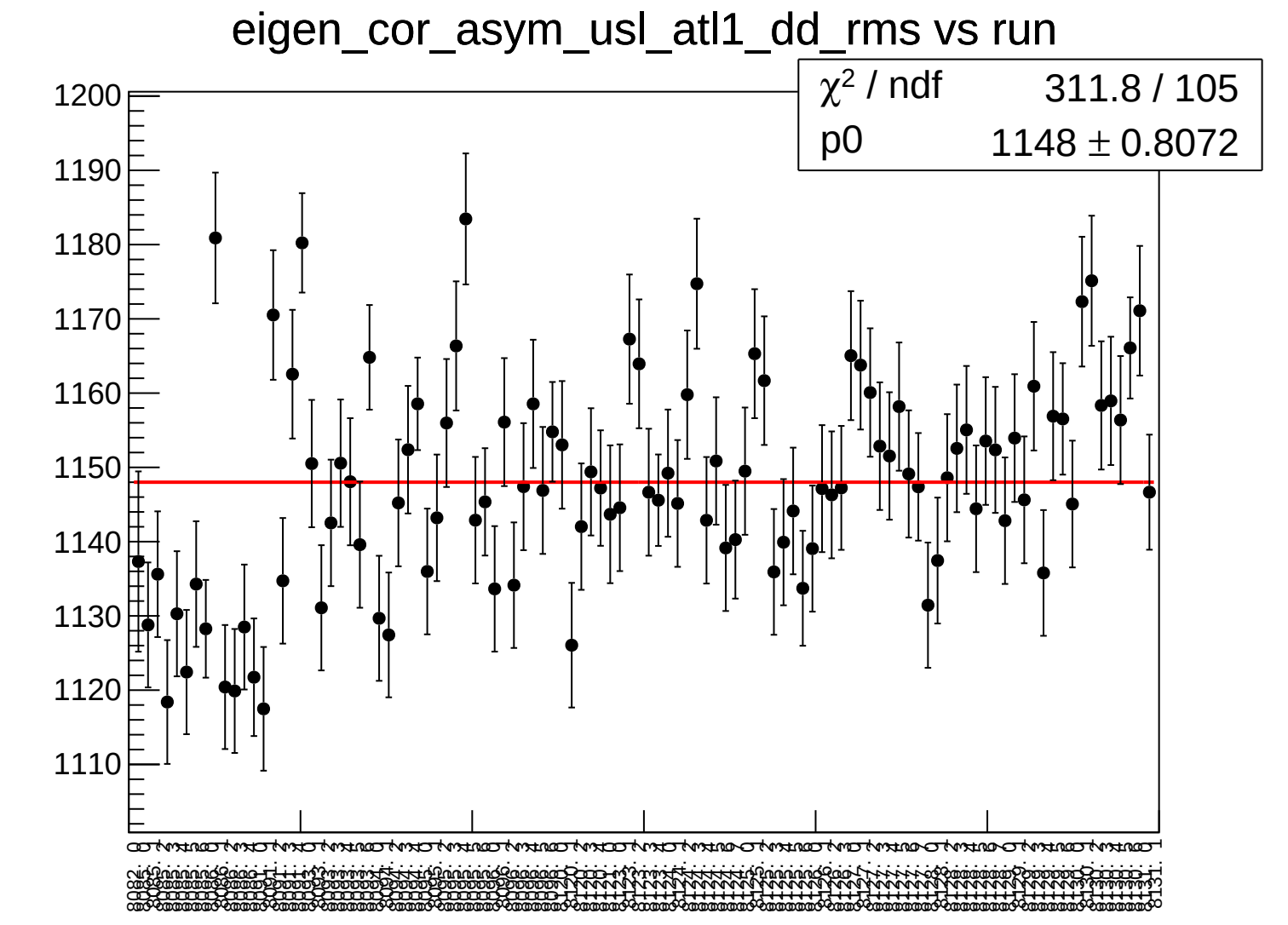

asym_usl_atl1_dd_cor_correction_mean vs run
χ² / ndf 108.4 / 105
p0 1535 ± 971
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 106
Mean −105
Std Dev 0
2
1
0
−1
−2

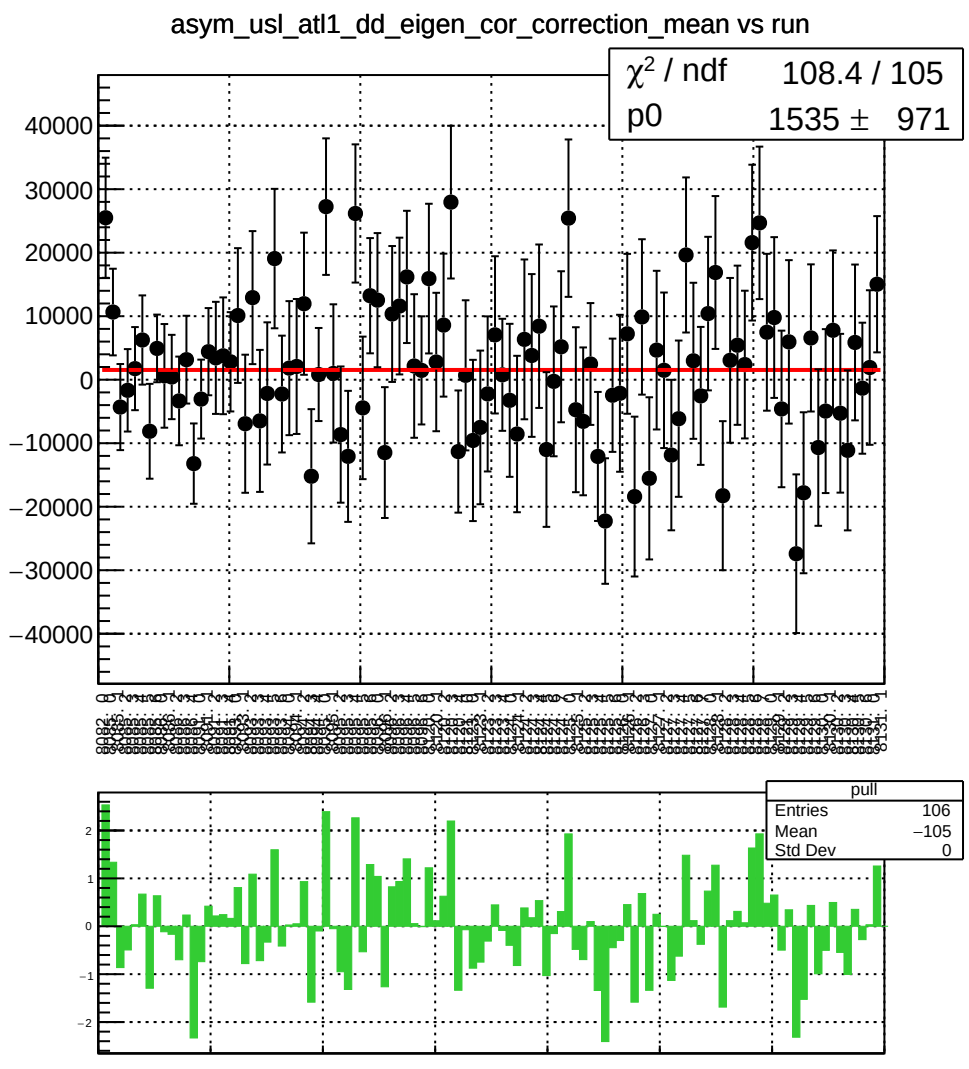

pull1D
Entries 106
Mean 0.01605
Std Dev 1.011
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

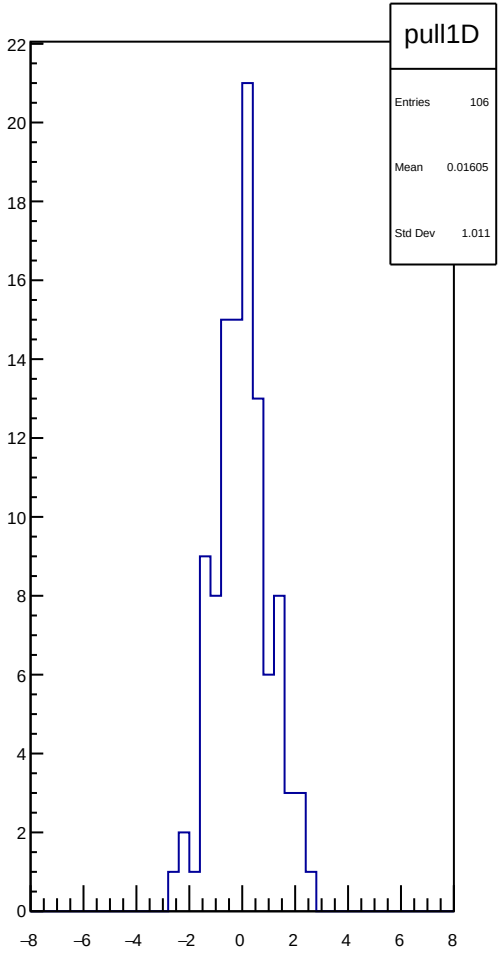

asym_usl_atl1_dd_cor_correction_rms vs run
χ² / ndf 1.03e+05 / 105
p0 951.4 ± 0.6866
1300
1200
1100
1000
900
800
700
600

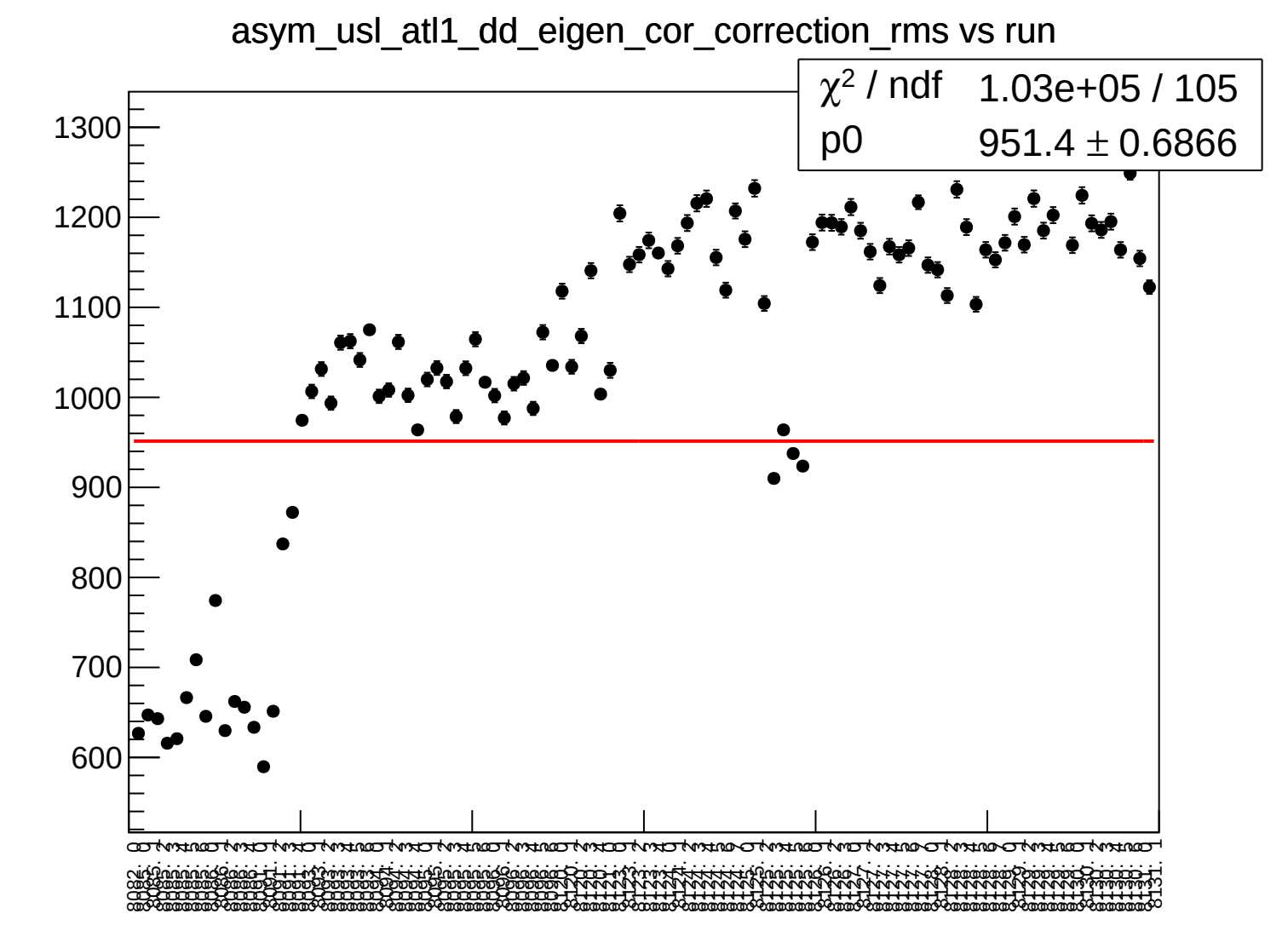

eigen_cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 90.74 / 105
p0 −2176 ± 1142
40000
20000
0
−20000
−40000
pull
Entries 106
Mean −10.77
Std Dev 35.17
2
1
0
−1
−2

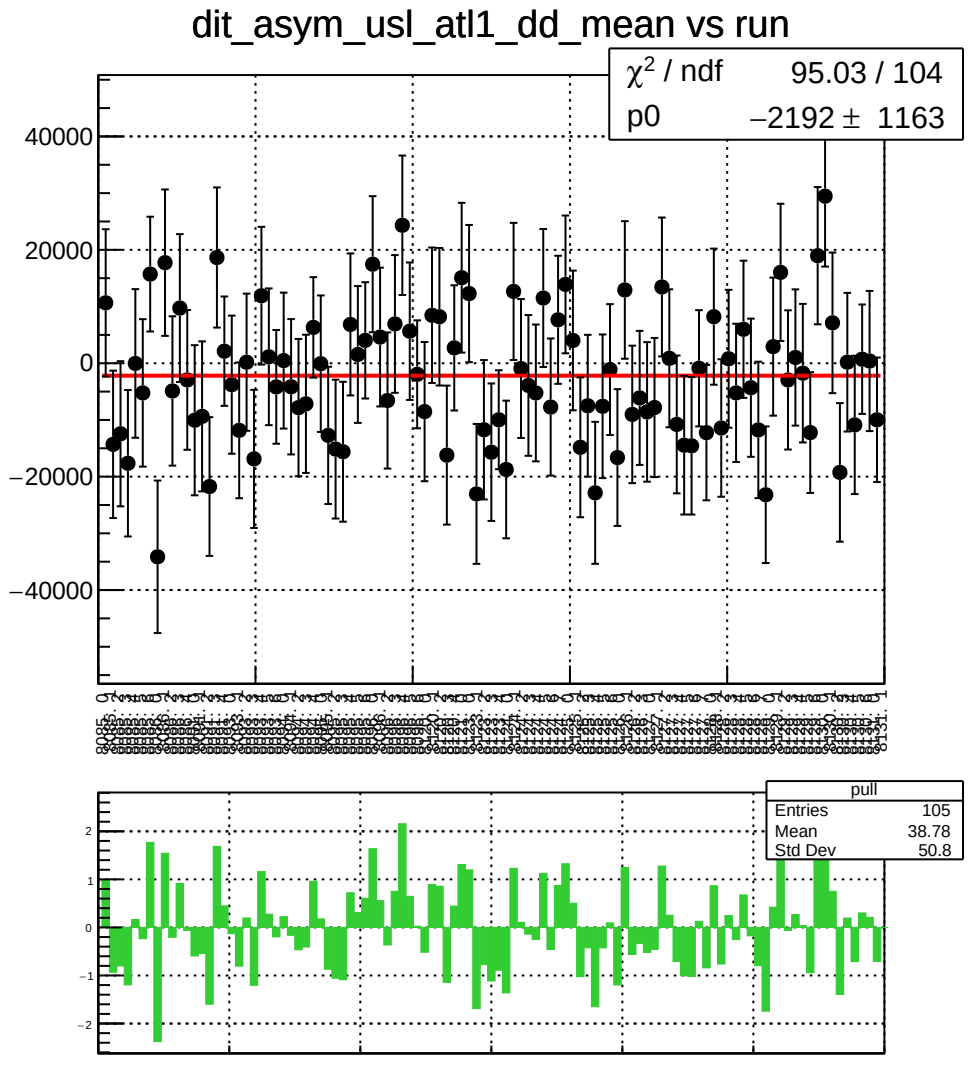

pull1D
Entries 106
Mean −0.00549
Std Dev 0.9252
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

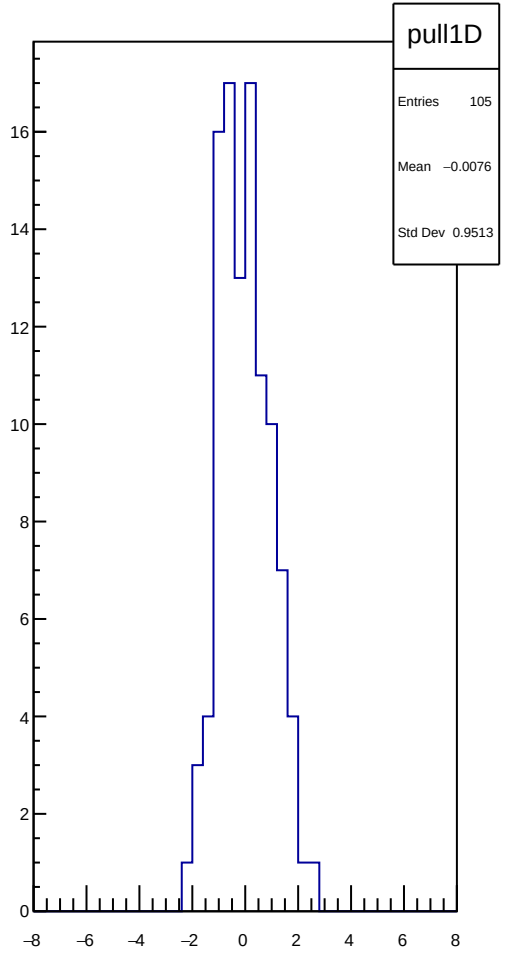

eigen_cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 311.8 / 105
p0 1148 ± 0.8072
1200
1190
1180
1170
1160
1150
1140
1130
1120
1110

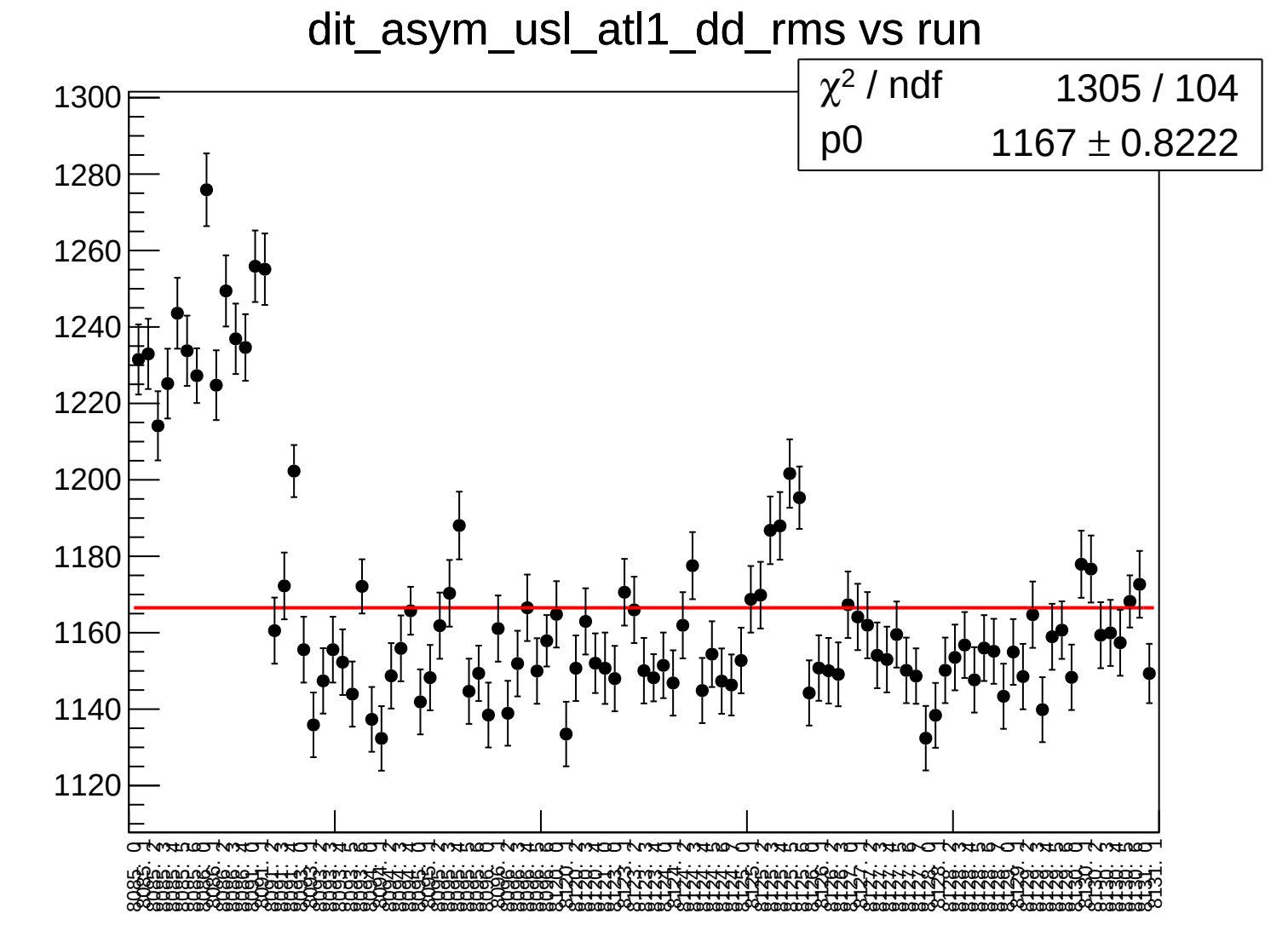

asym_usl_atl1_dd_eigen_cor_correction_mean vs run
χ² / ndf 108.4 / 105
p0 1535 ± 971
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 106
Mean −105
Std Dev 0
2
1
0
−1
−2

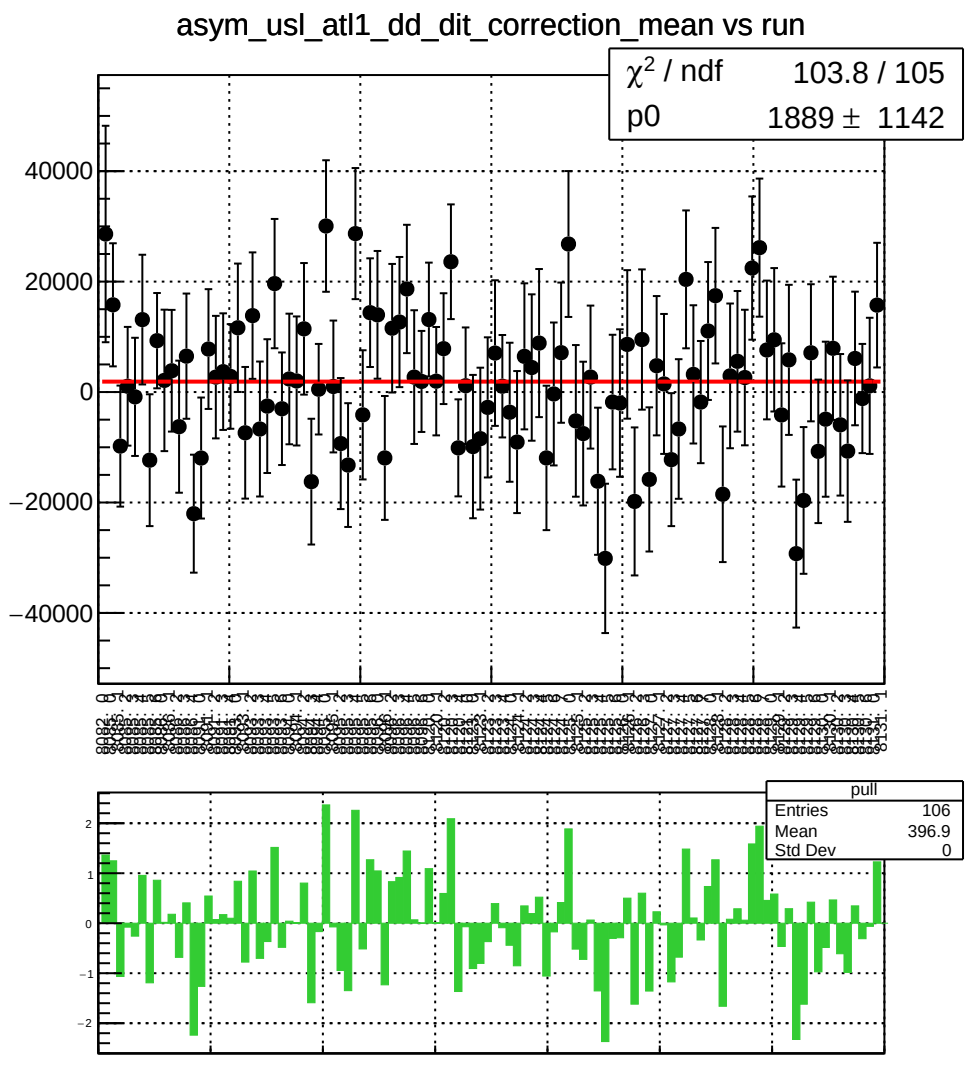

pull1D
Entries 106
Mean 0.01605
Std Dev 1.011
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

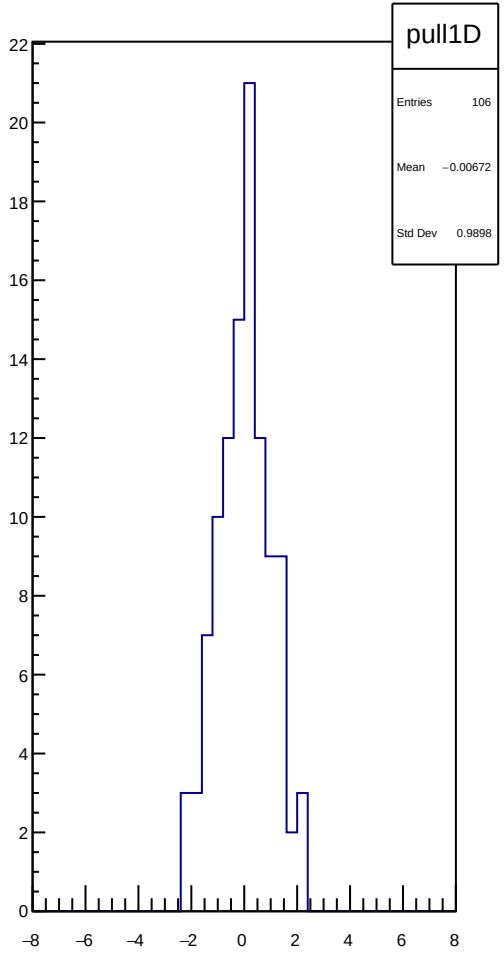

asym_usl_atl1_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.03e+05 / 105
p0 951.4 ± 0.6866
1300
1200
1100
1000
900
800
700
600

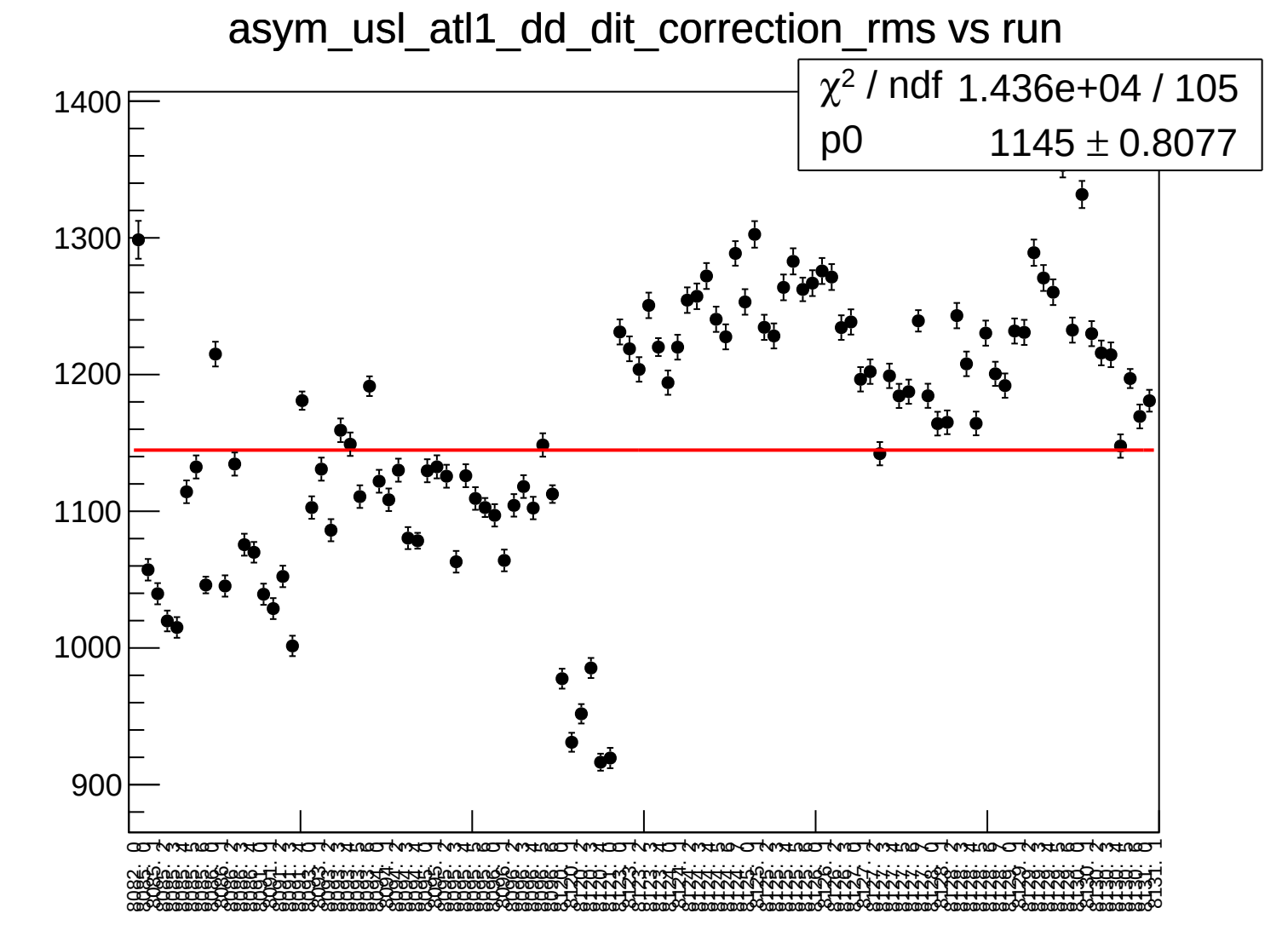

dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 95.03 / 104
p0 −2192 ± 1163
40000
20000
0
−20000
−40000
pull
Entries 105
Mean 38.78
Std Dev 50.8
2
1
0
−1
−2

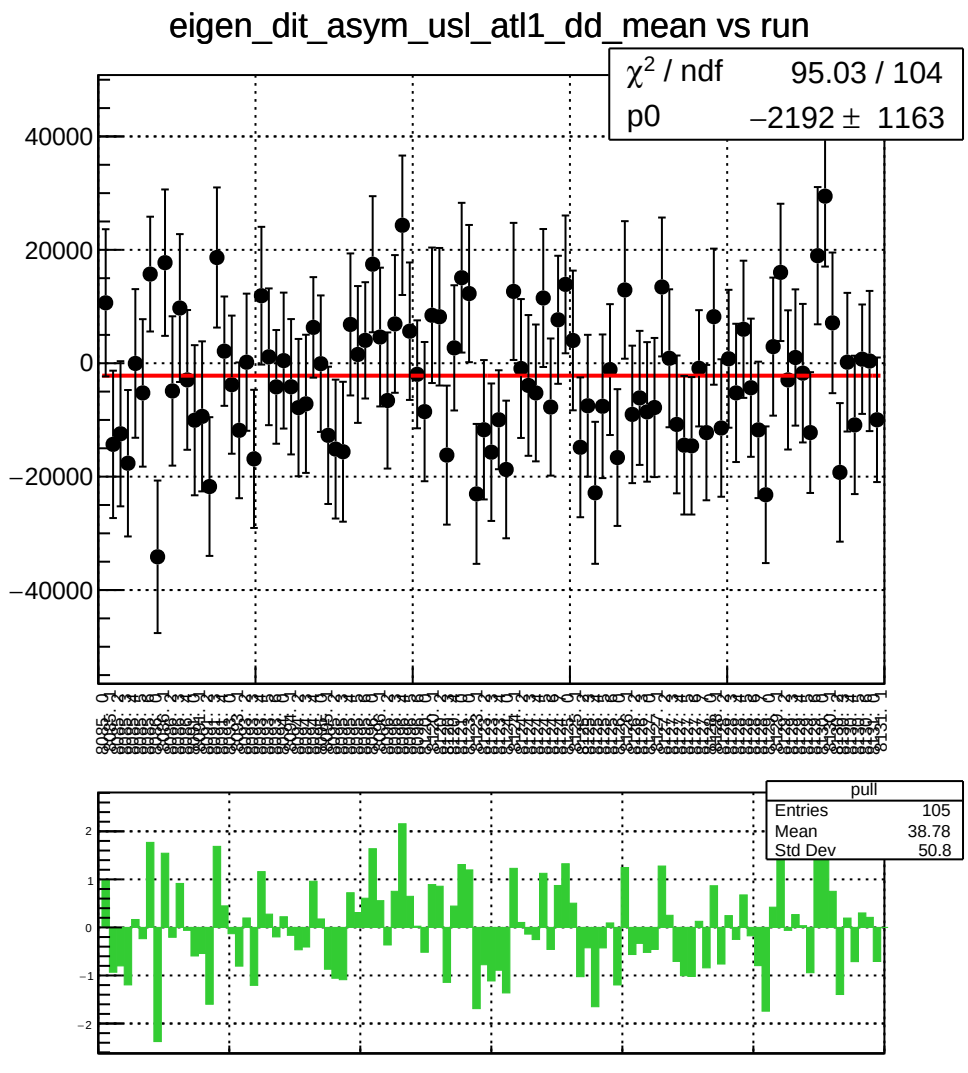

pull1D
Entries 105
Mean −0.0076
Std Dev 0.9513
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

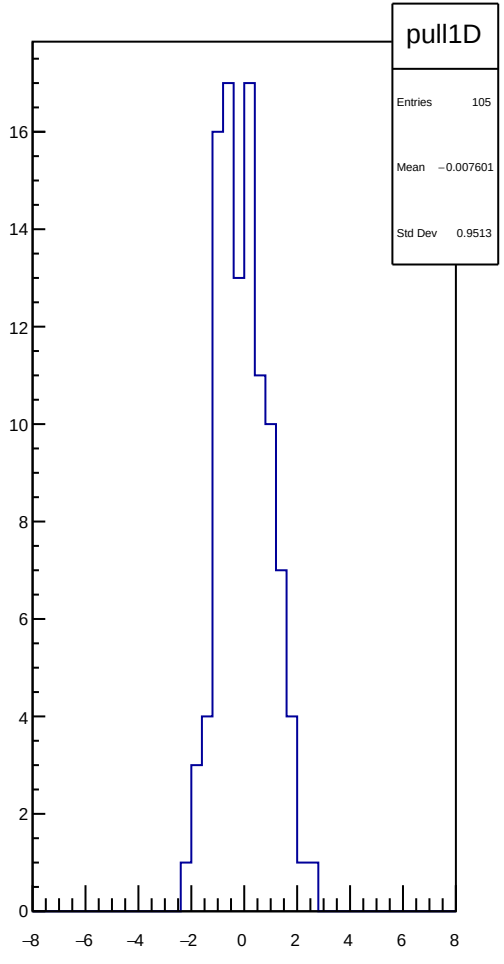

dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 1305 / 104
p0 1167 ± 0.8222
1300
1280
1260
1240
1220
1200
1180
1160
1140
1120

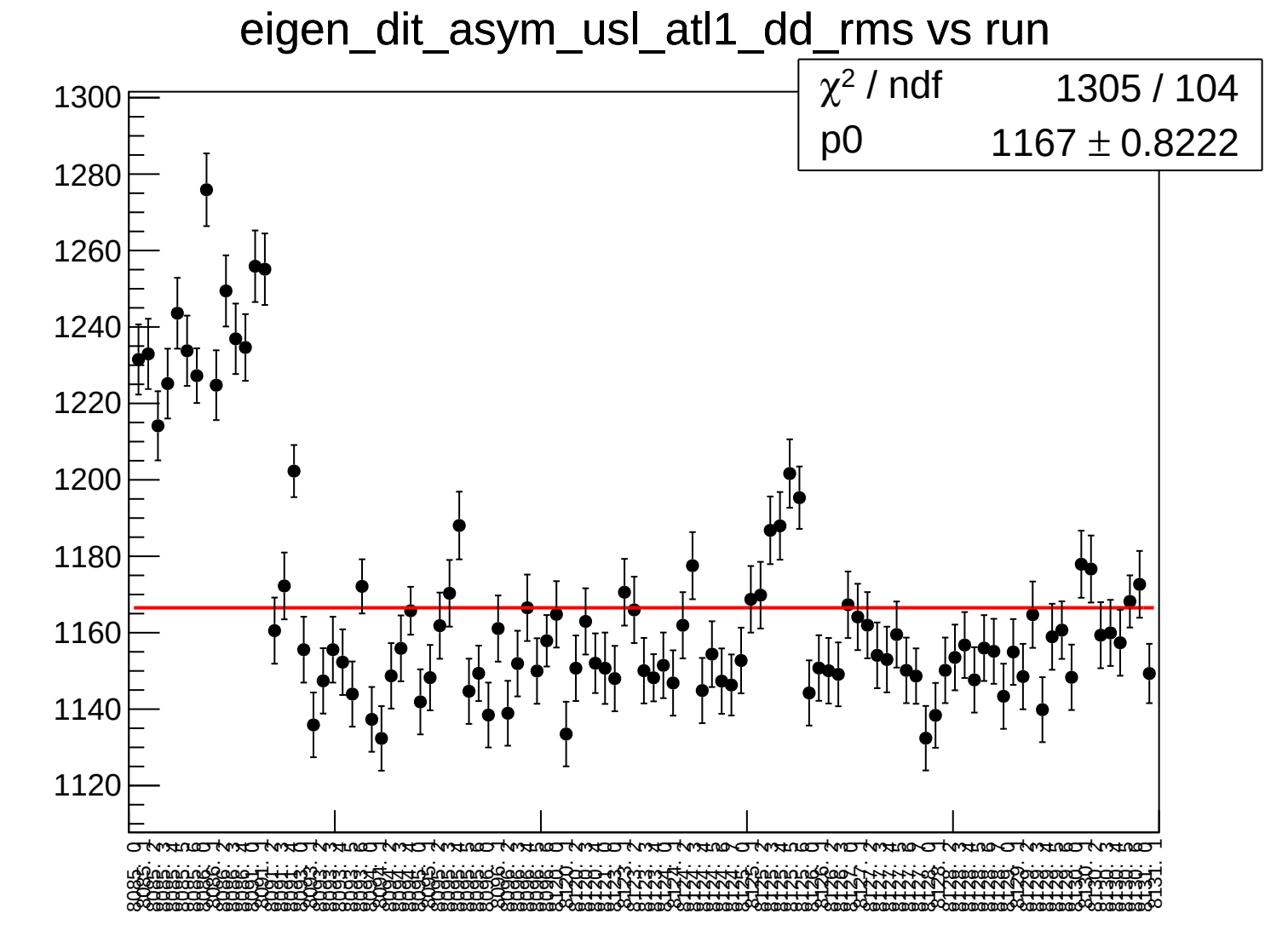

asym_usl_atl1_dd_dit_correction_mean vs run
χ² / ndf 103.8 / 105
p0 1889 ± 1142
40000
20000
0
−20000
−40000
pull
Entries 106
Mean 396.9
Std Dev 0
2
1
0
−1
−2

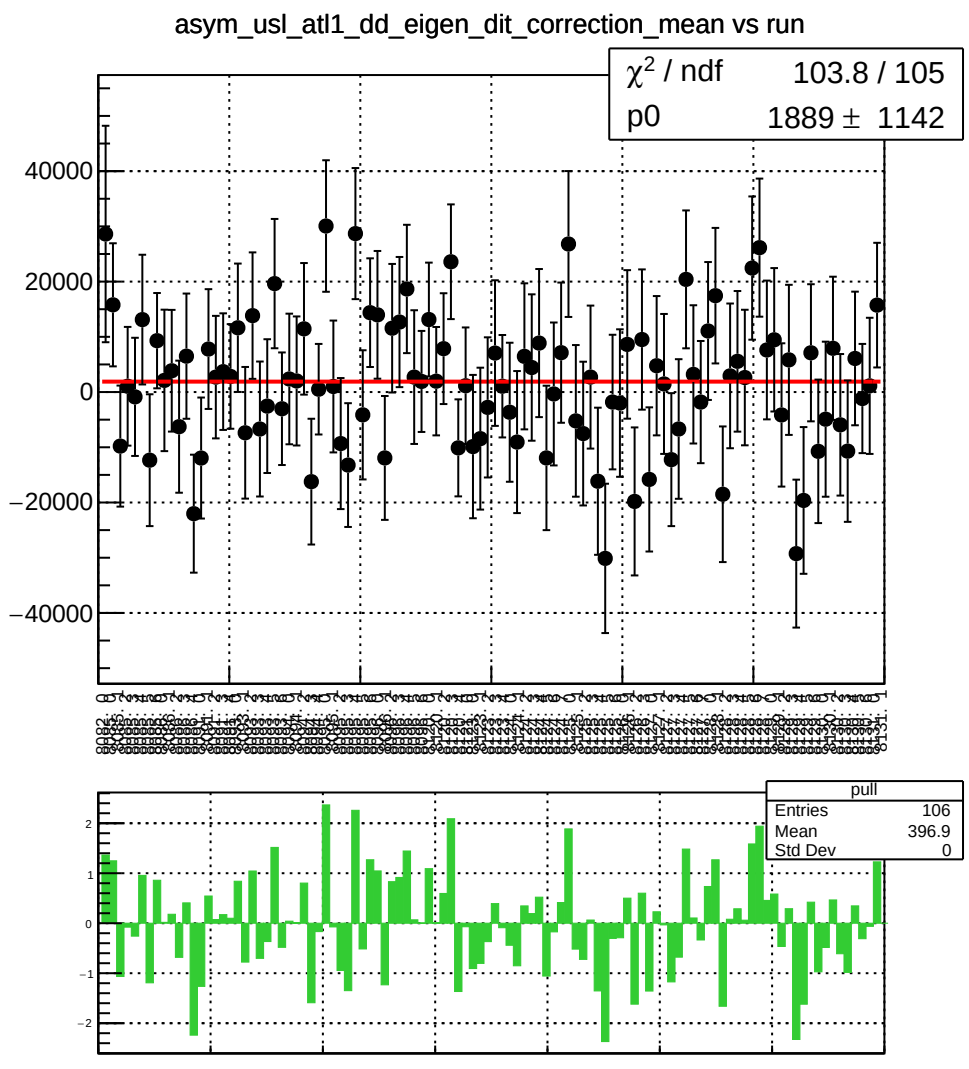

pull1D
Entries 106
Mean −0.00672
Std Dev 0.9898
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

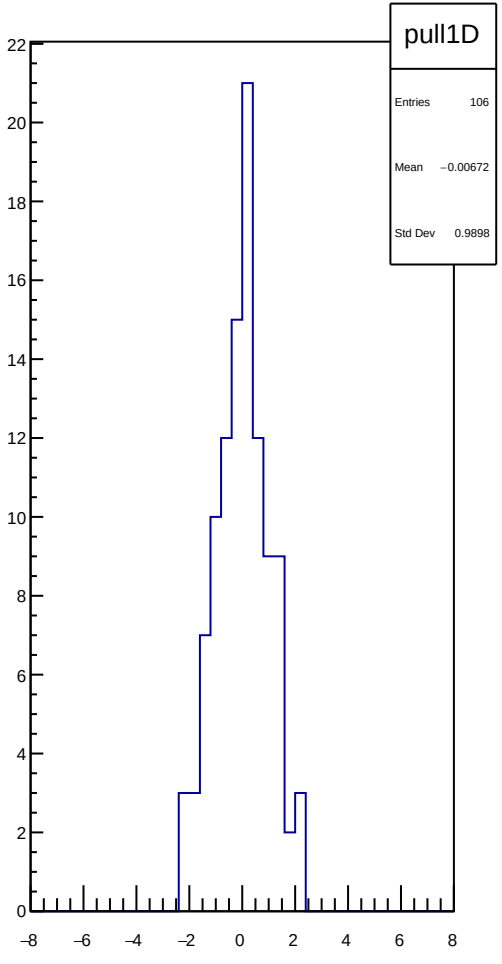

asym_usl_atl1_dd_dit_correction_rms vs run
χ² / ndf 1.436e+04 / 105
p0 1145 ± 0.8077
1400
1300
1200
1100
1000
900

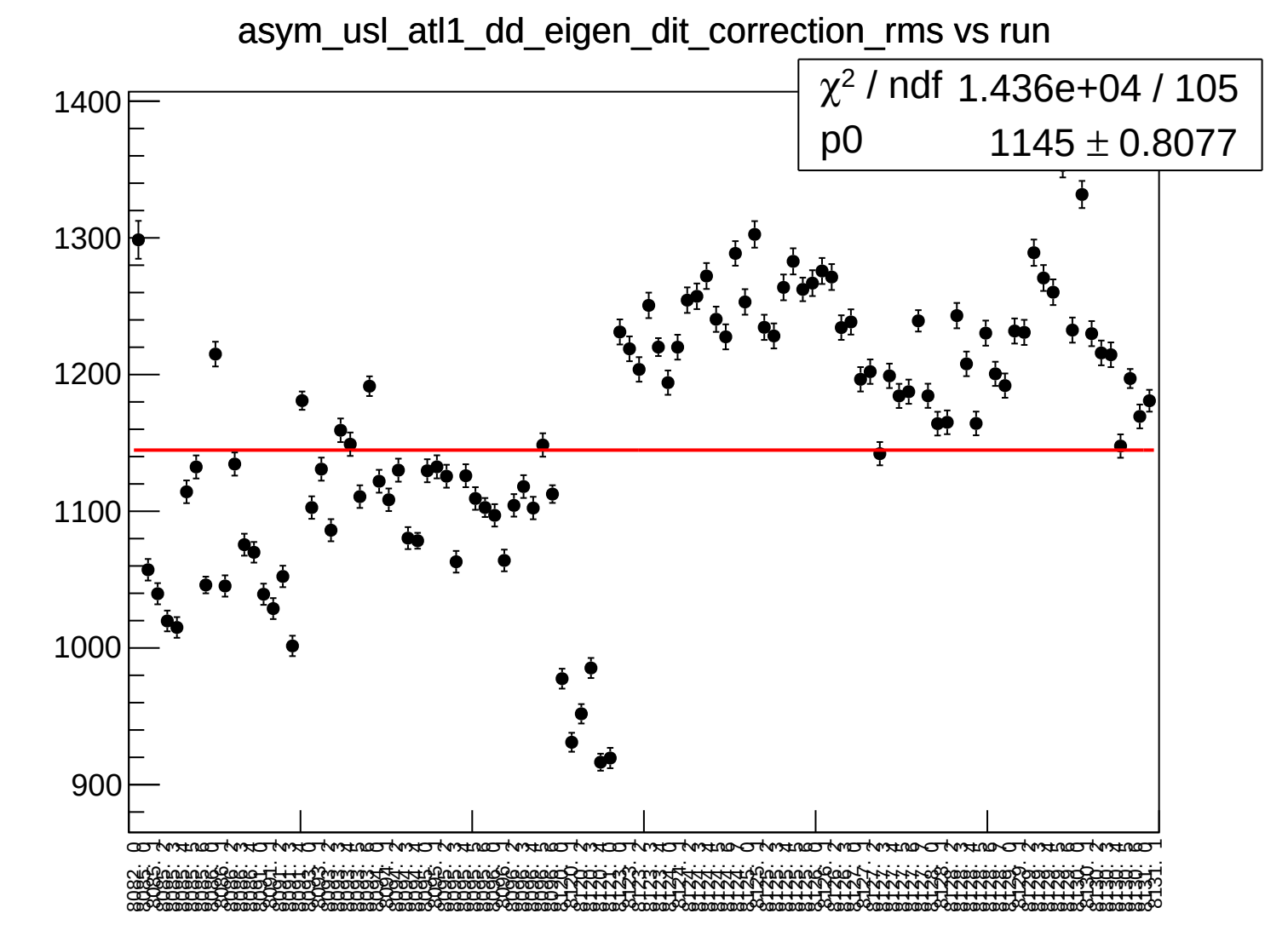

eigen_dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 95.03 / 104
p0 −2192 ± 1163
40000
20000
0
−20000
−40000
pull
Entries 105
Mean 38.78
Std Dev 50.8
2
1
0
−1
−2

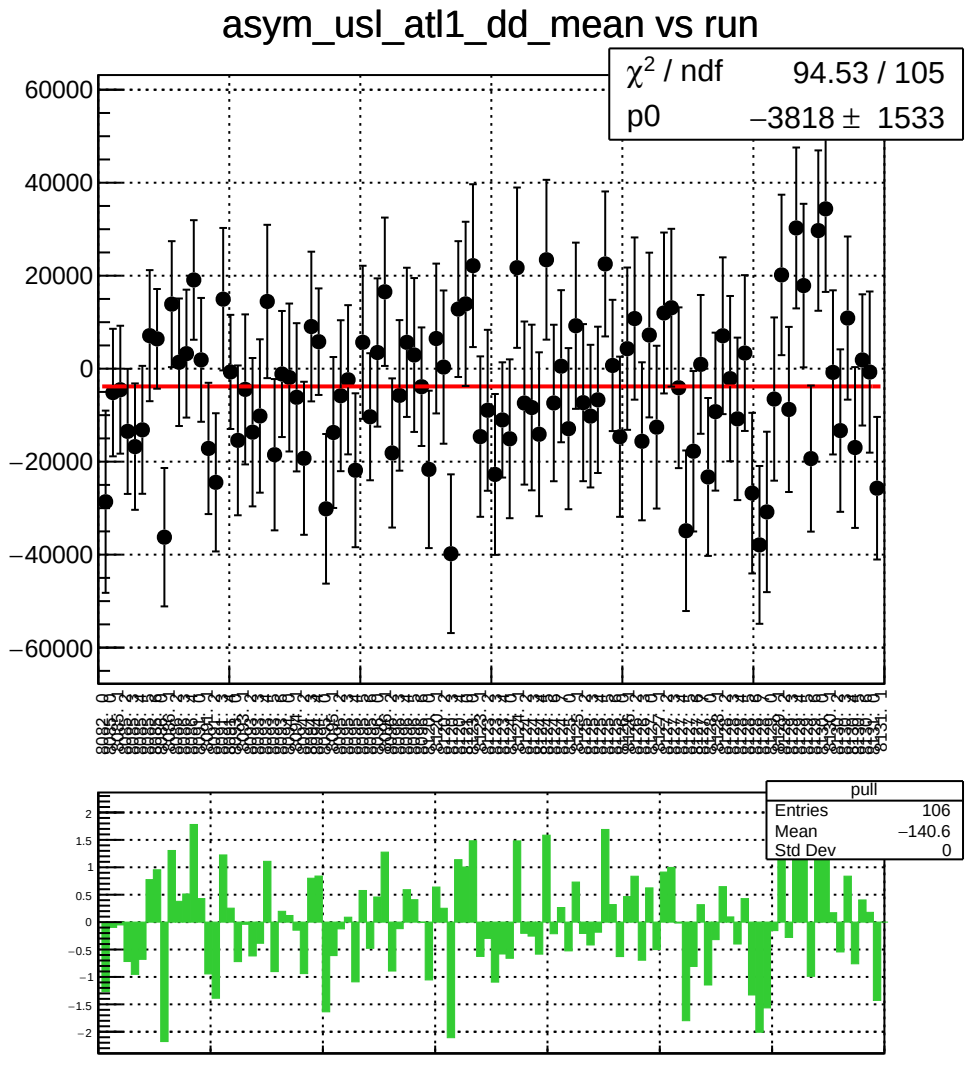

pull1D
Entries 105
Mean −0.007601
Std Dev 0.9513
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

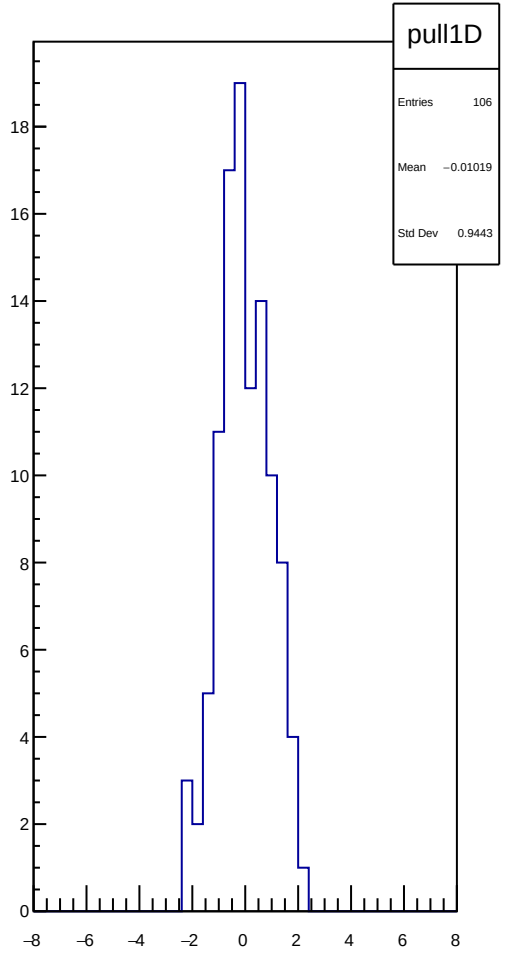

eigen_dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 1305 / 104
p0 1167 ± 0.8222
1300
1280
1260
1240
1220
1200
1180
1160
1140
1120

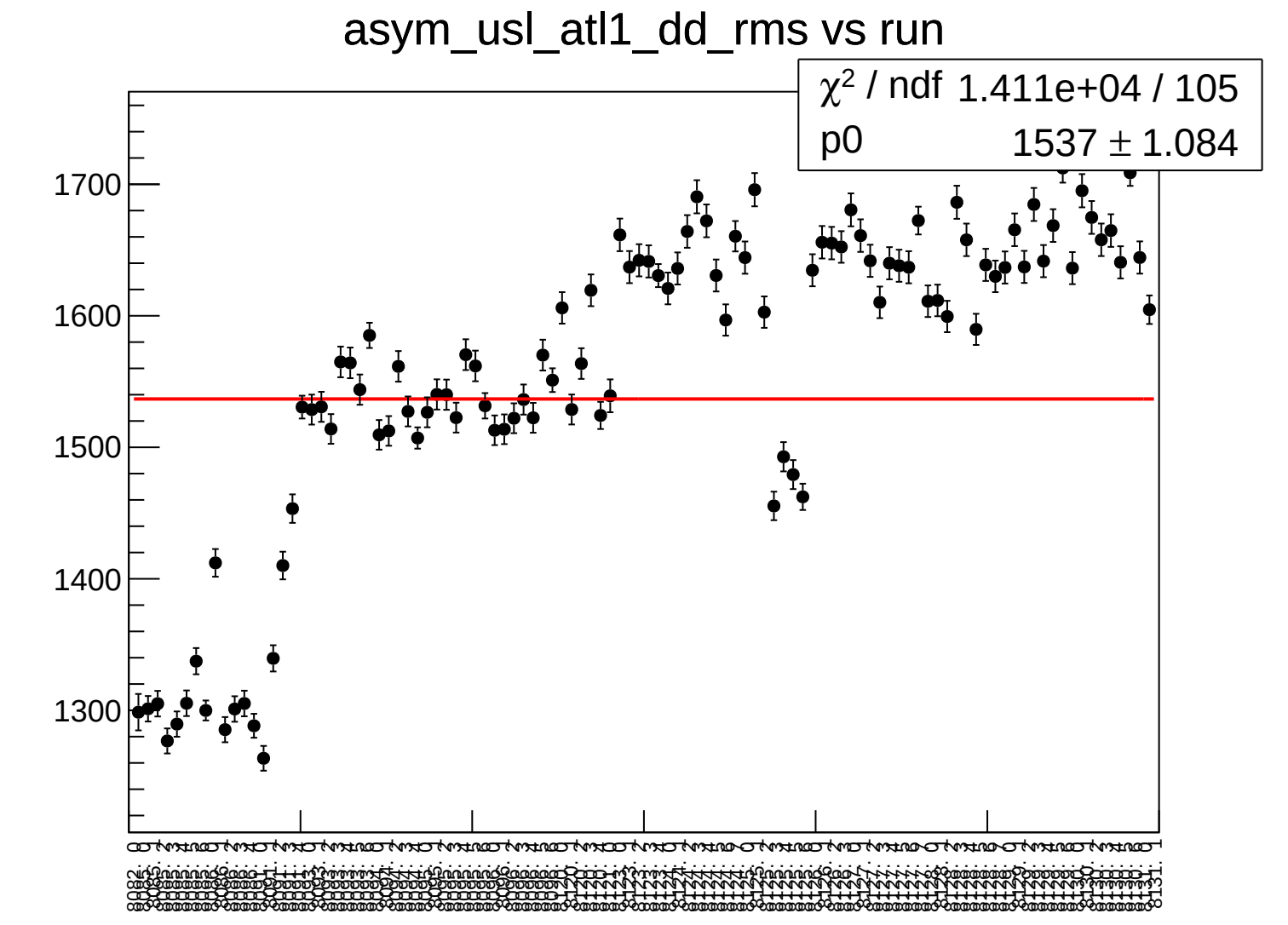

asym_usl_atl1_dd_eigen_dit_correction_mean vs run
χ² / ndf 103.8 / 105
p0 1889 ± 1142
40000
20000
0
−20000
−40000
pull
Entries 106
Mean 396.9
Std Dev 0
2
1
0
−1
−2

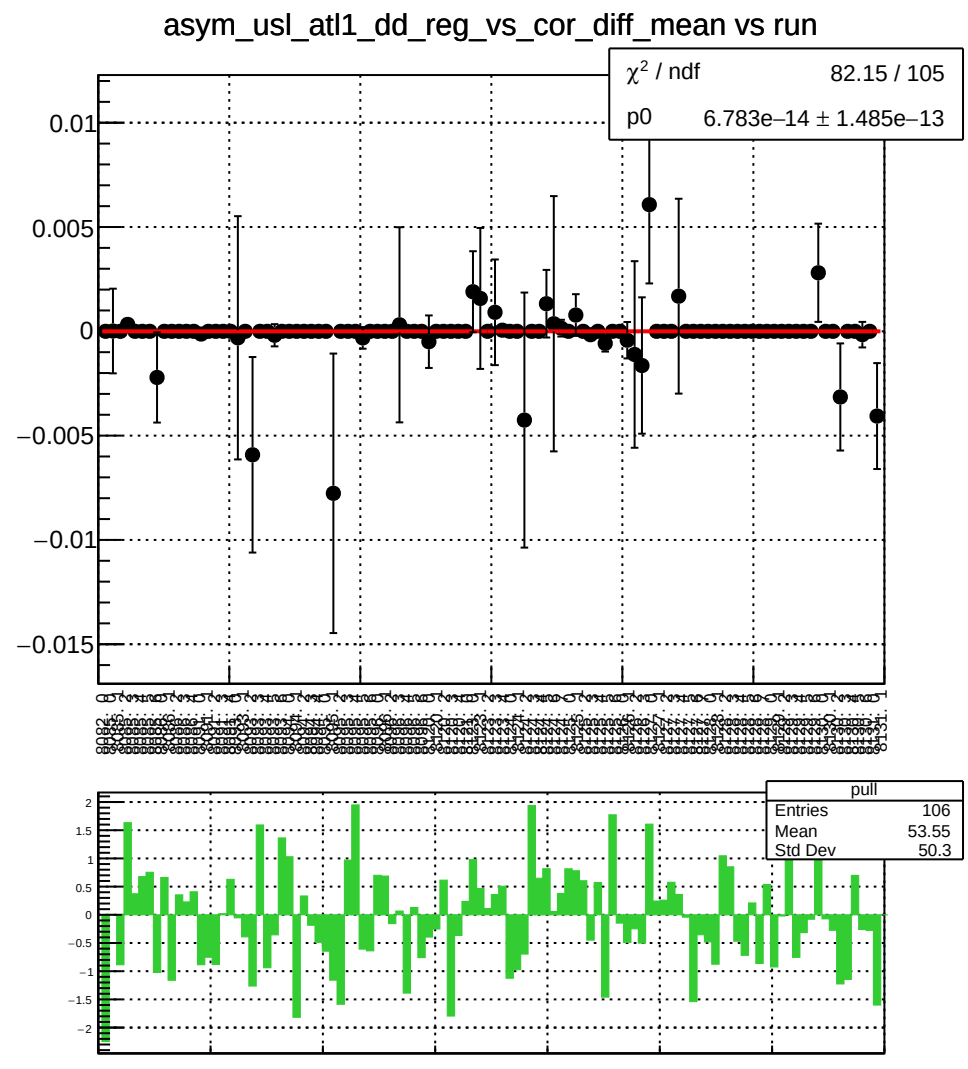

pull1D
Entries 106
Mean −0.00672
Std Dev 0.9898
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

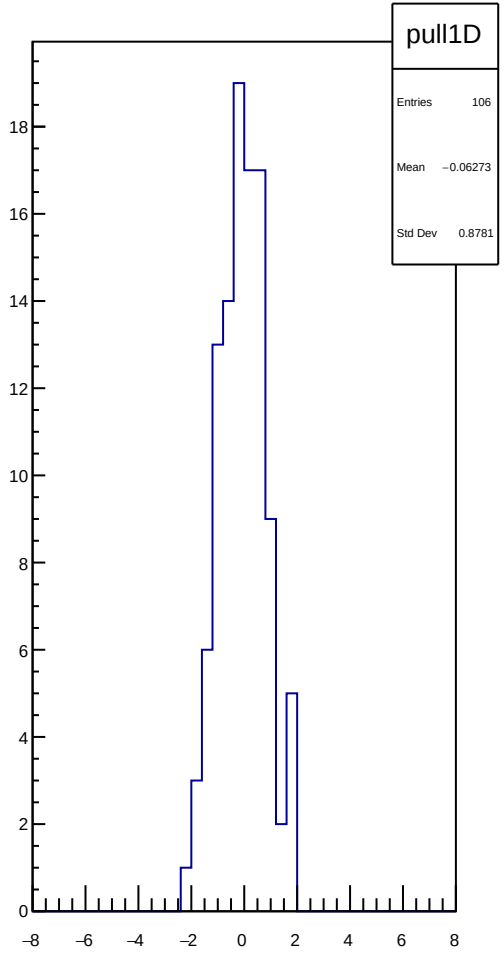

asym_usl_atl1_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.436e+04 / 105
p0 1145 ± 0.8077
1400
1300
1200
1100
1000
900

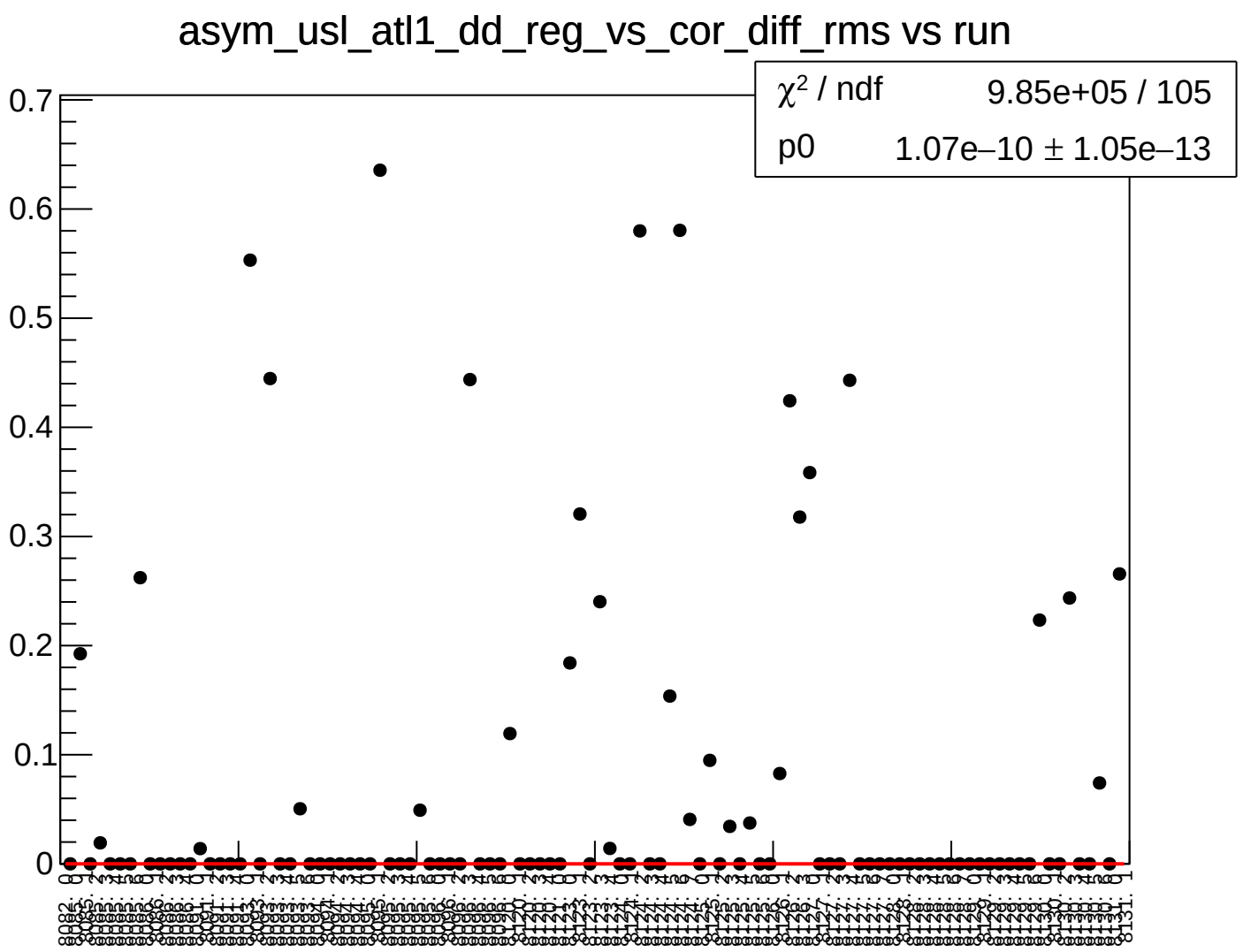

asym_usl_atl1_dd_mean vs run
χ² / ndf 94.53 / 105
p0 −3818 ± 1533
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean −140.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

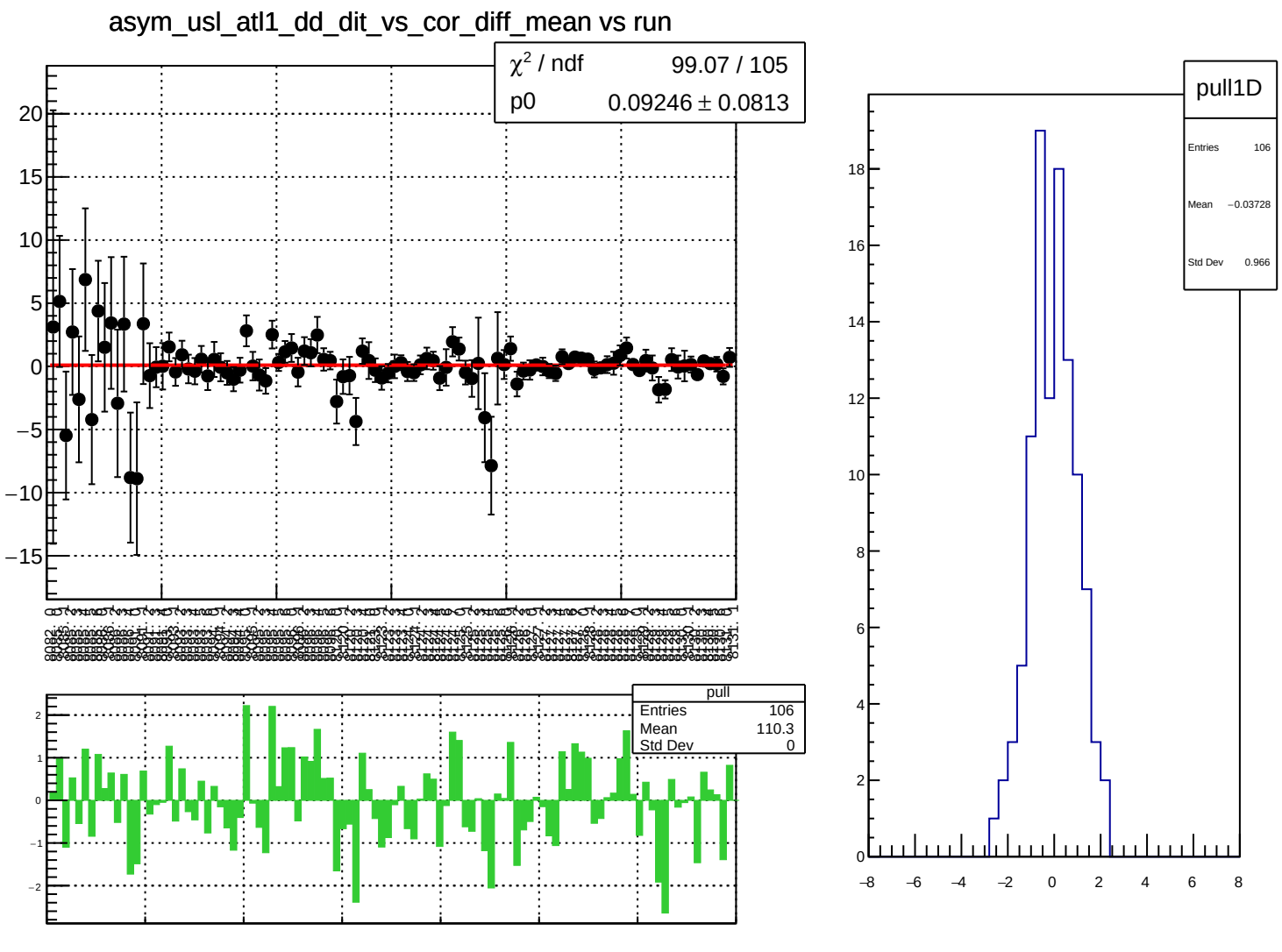

pull1D
Entries 106
Mean −0.01019
Std Dev 0.9443
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

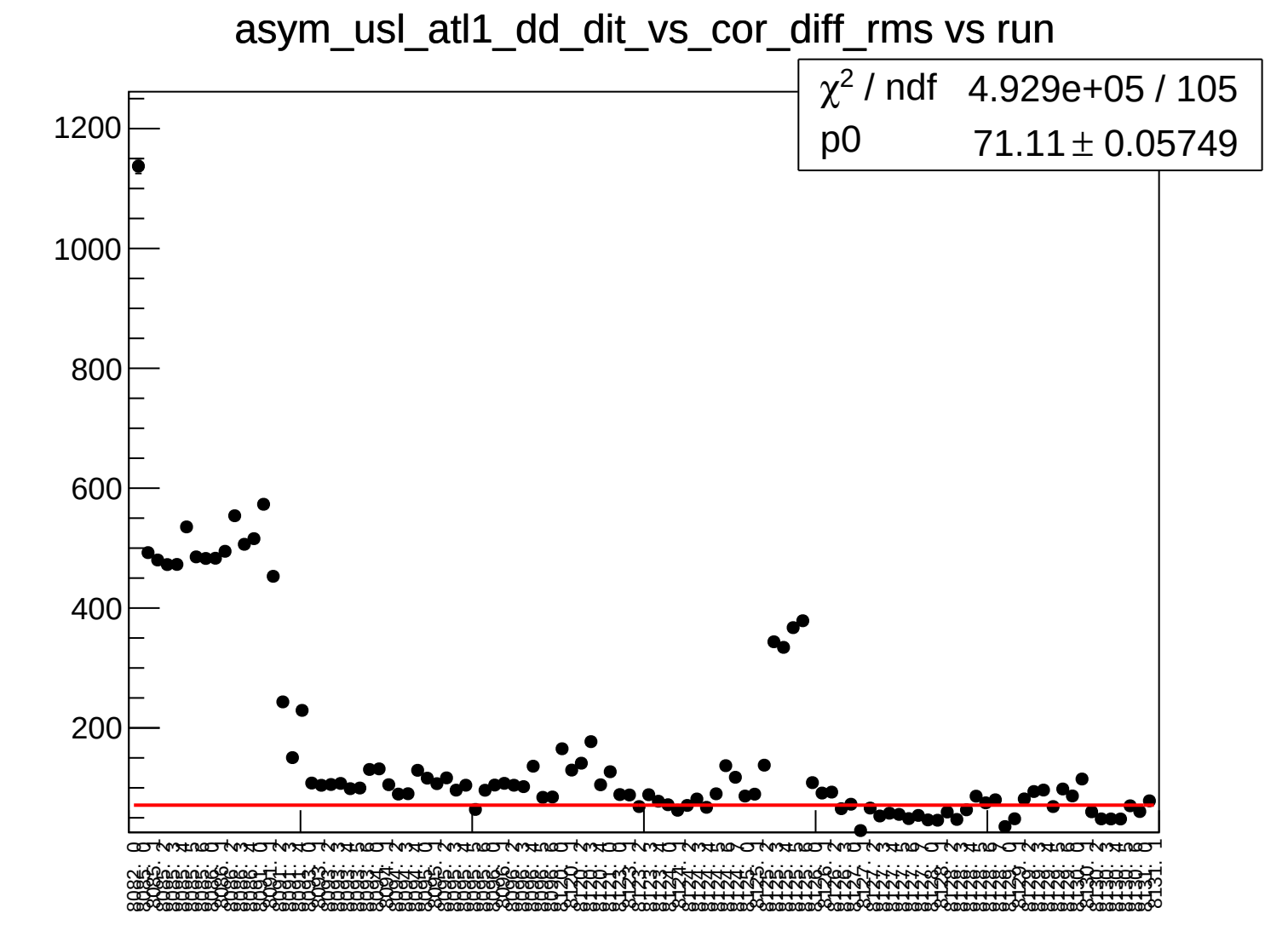

asym_usl_atl1_dd_rms vs run
χ² / ndf 1.411e+04 / 105
p0 1537 ± 1.084
1700
1600
1500
1400
1300

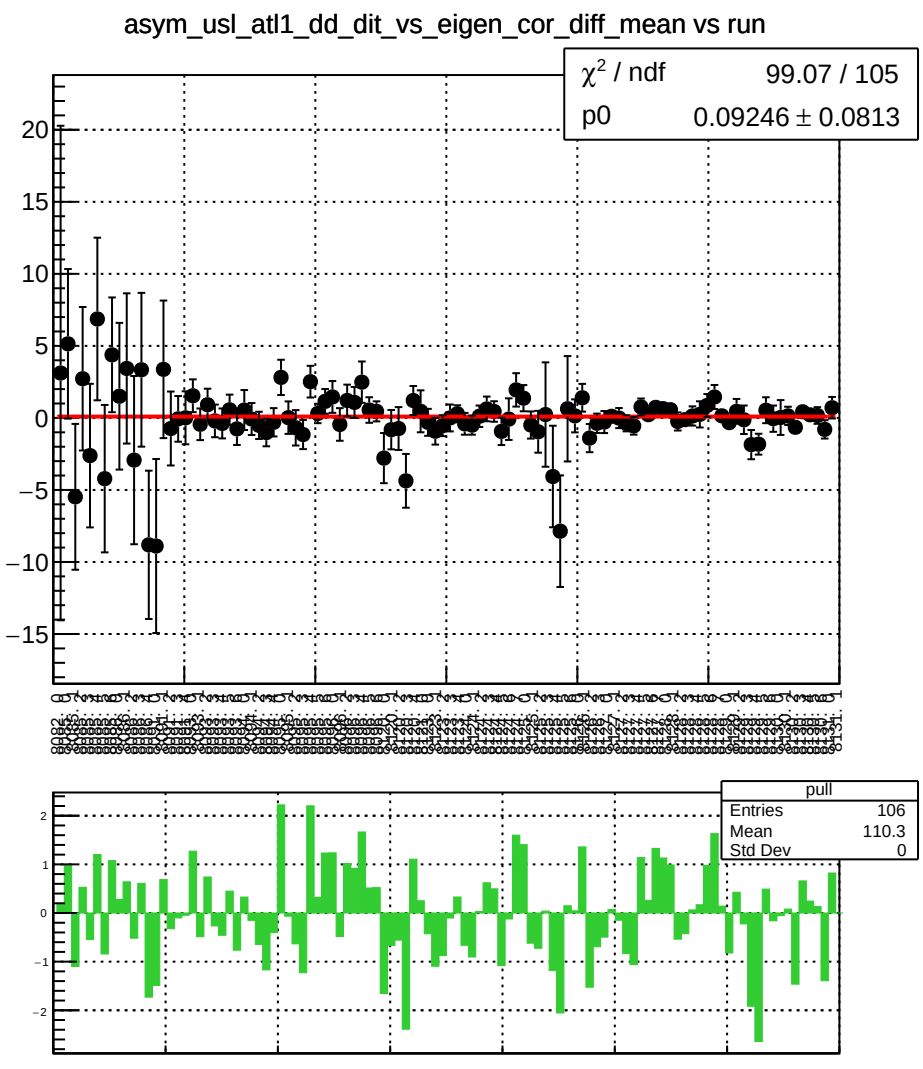

asym_usl_atl1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 82.15 / 105
p0 6.783e−14 ± 1.485e−13
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 106
Mean 53.55
Std Dev 50.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

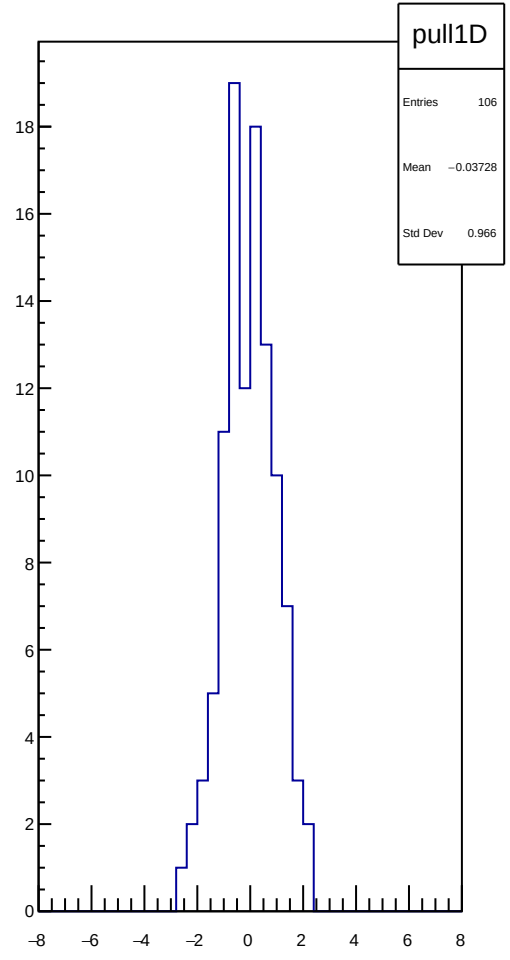

pull1D
Entries 106
Mean −0.06273
Std Dev 0.8781
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

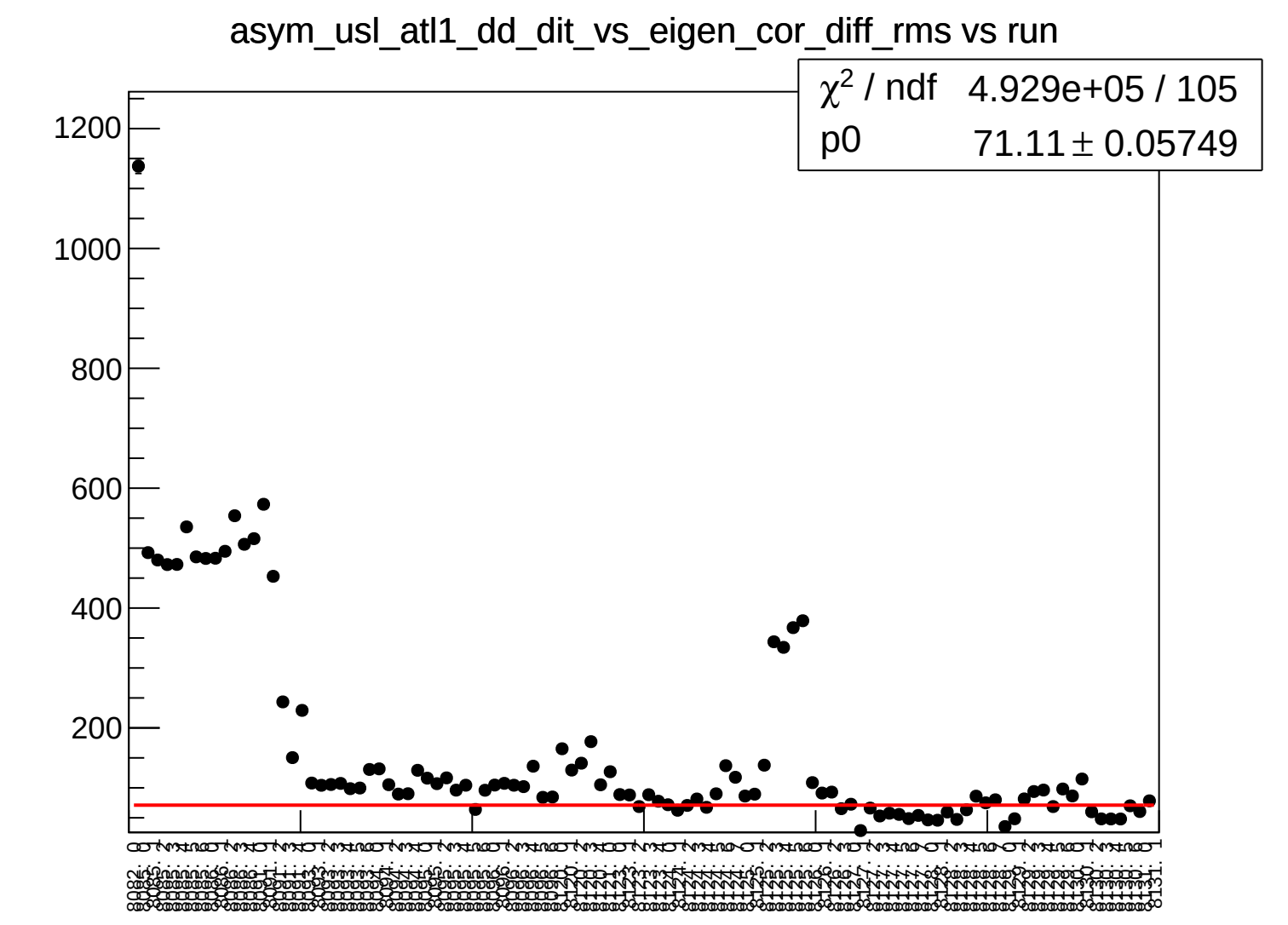

asym_usl_atl1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.85e+05 / 105
p0 1.07e−10 ± 1.05e−13
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

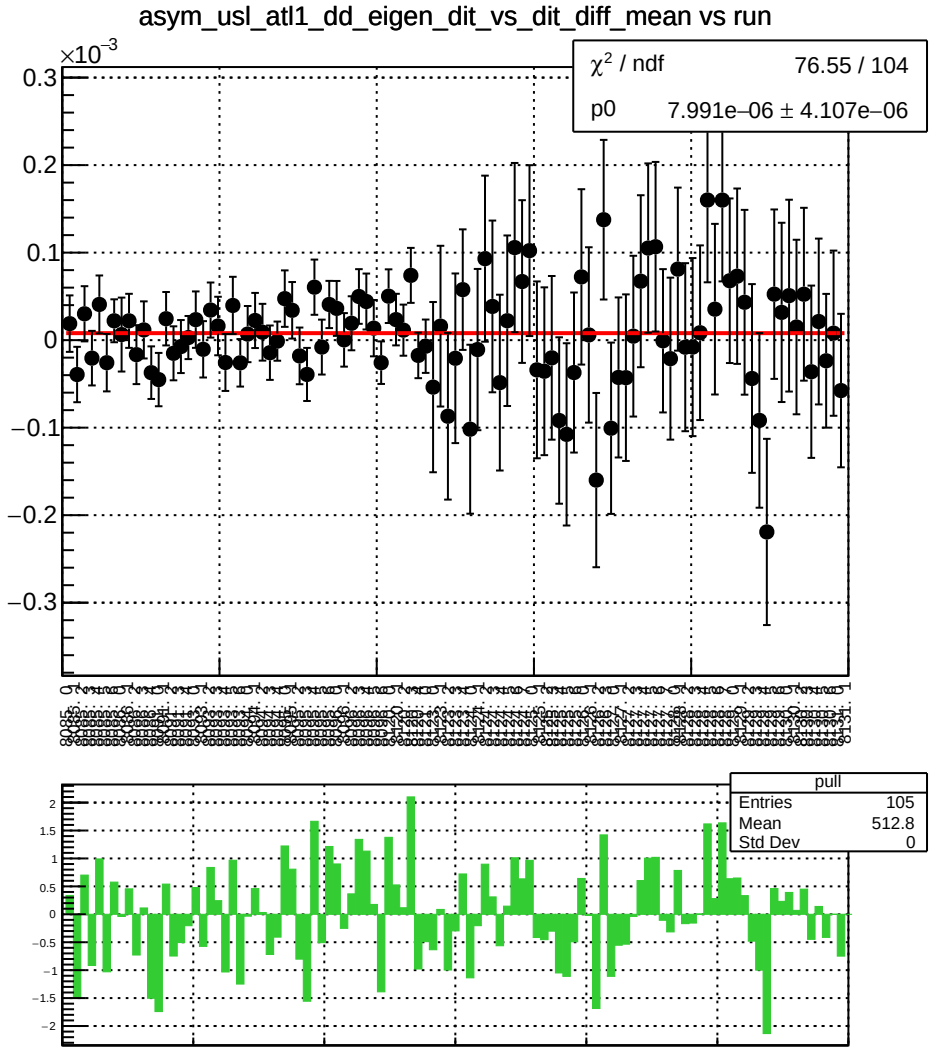

asym_usl_atl1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 99.07 / 105
p0 0.09246 ± 0.0813
pull
Entries 106
Mean 110.3
Std Dev 0
pull1D
Entries 106
Mean −0.03728
Std Dev 0.966

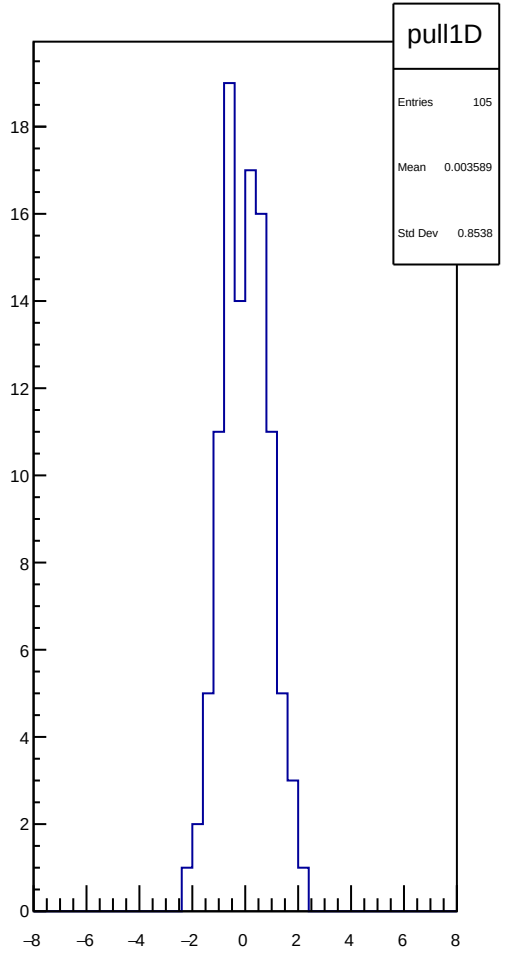

asym_usl_atl1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.929e+05 / 105
p0 71.11 ± 0.05749
1200
1000
800
600
400
200

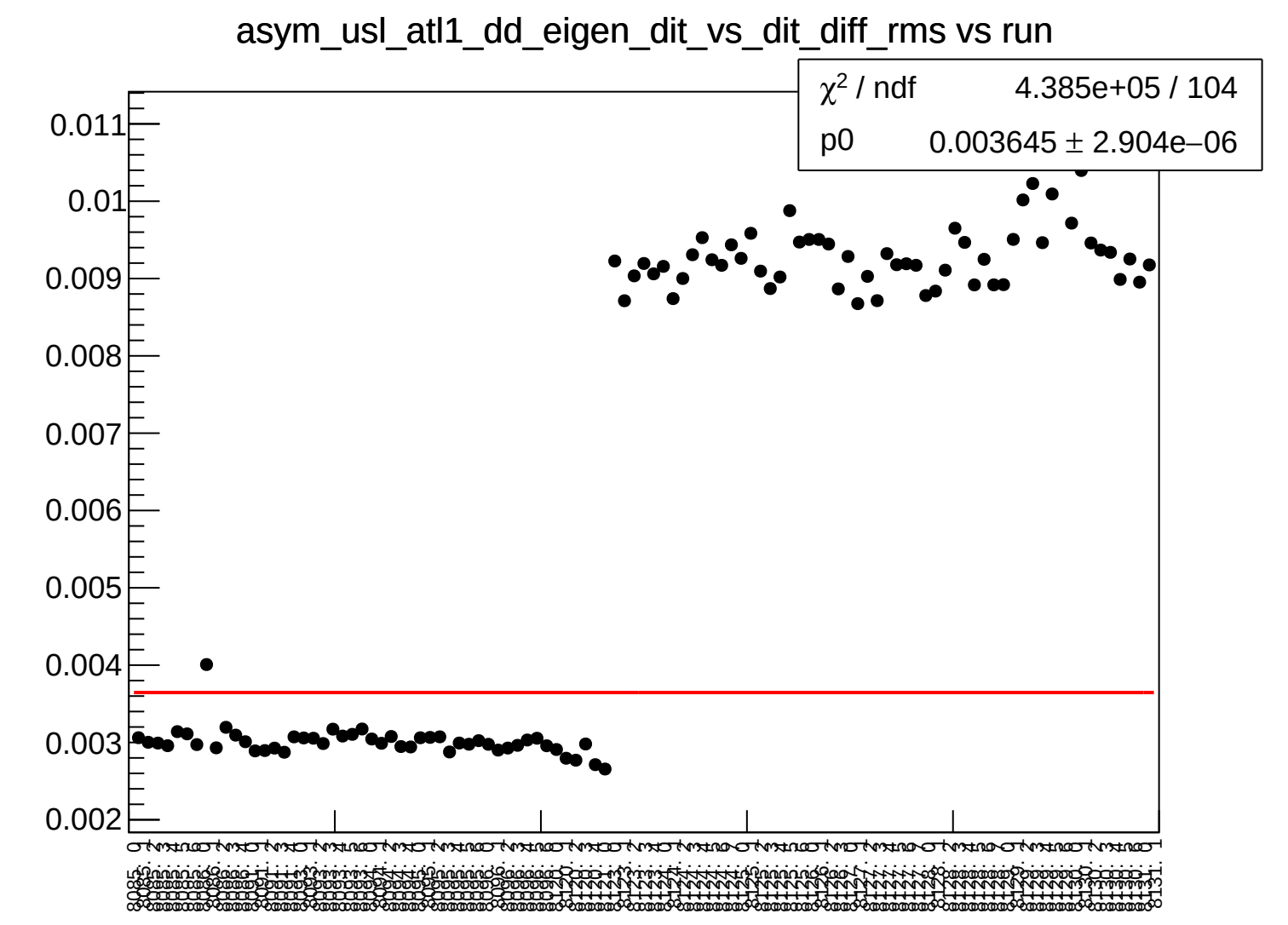

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.07 / 105
p0 0.09246 ± 0.0813
pull
Entries 106
Mean 110.3
Std Dev 0

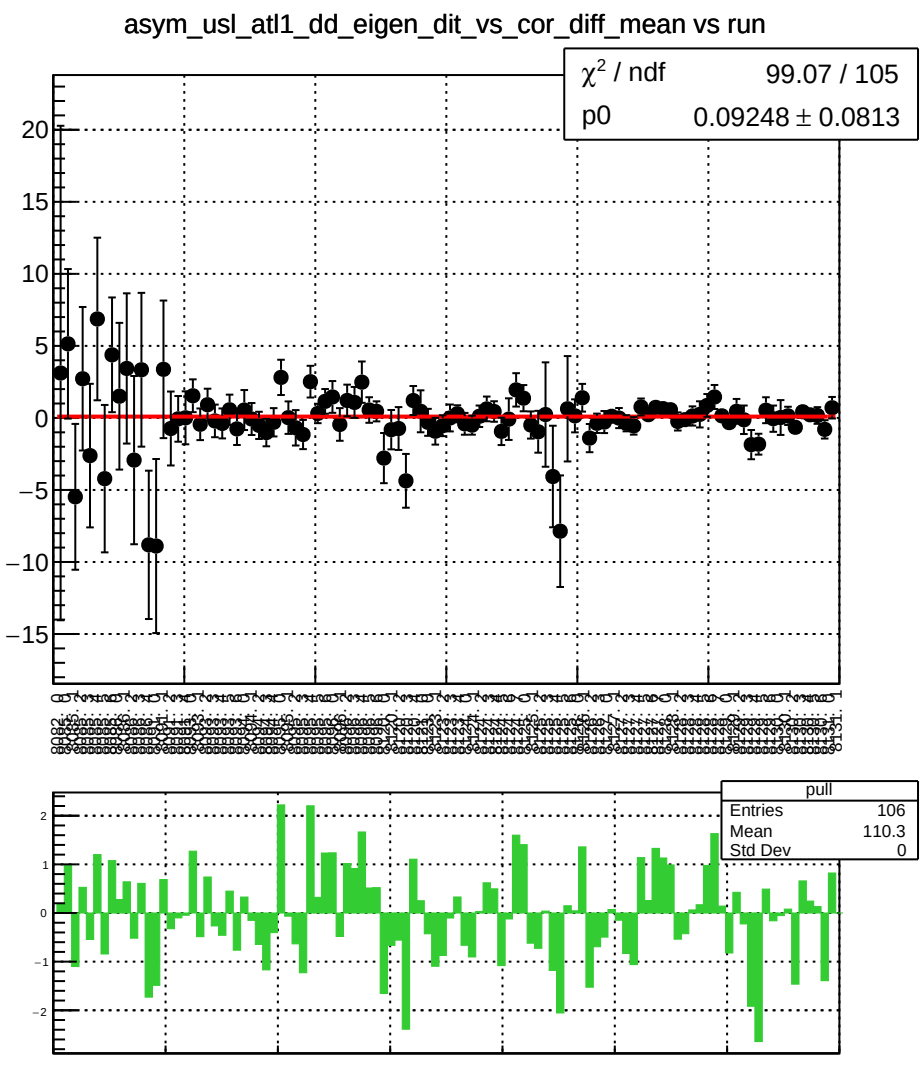

pull1D
Entries 106
Mean −0.03728
Std Dev 0.966

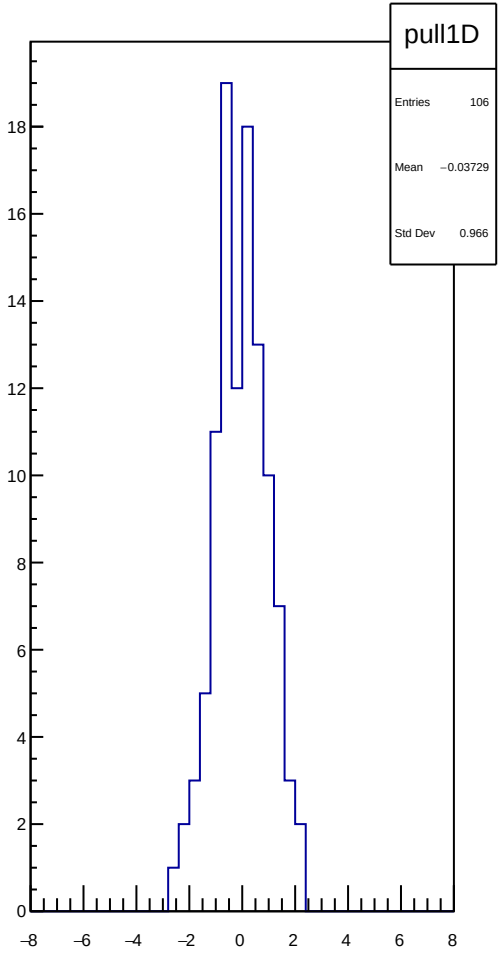

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_rms vs run
$\chi^2$ / ndf 4.929e+05 / 105
p0 71.11 ± 0.05749
1200
1000
800
600
400
200

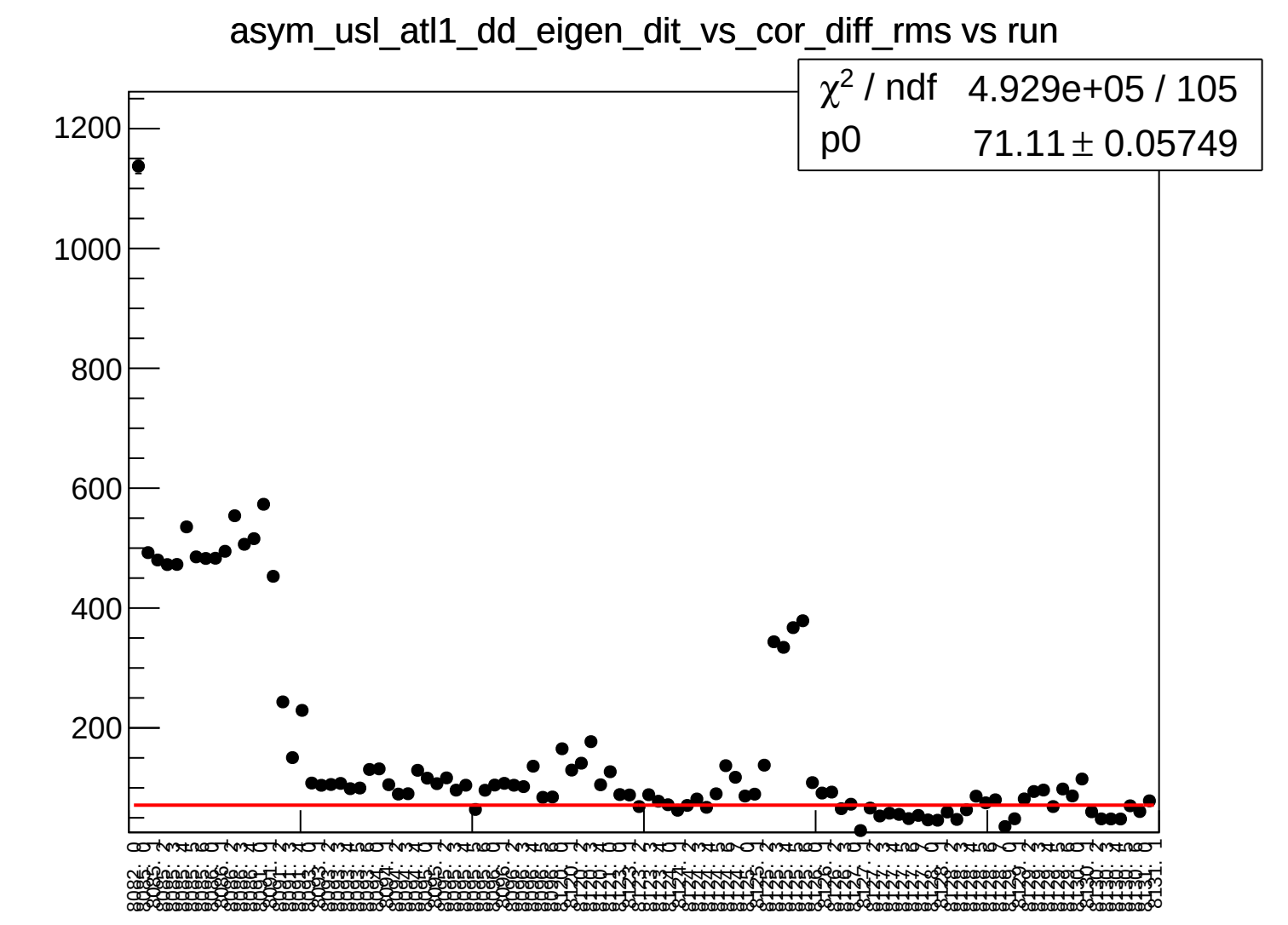

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.55 / 104
p0 7.991e−06 ± 4.107e−06
pull
Entries 105
Mean 512.8
Std Dev 0

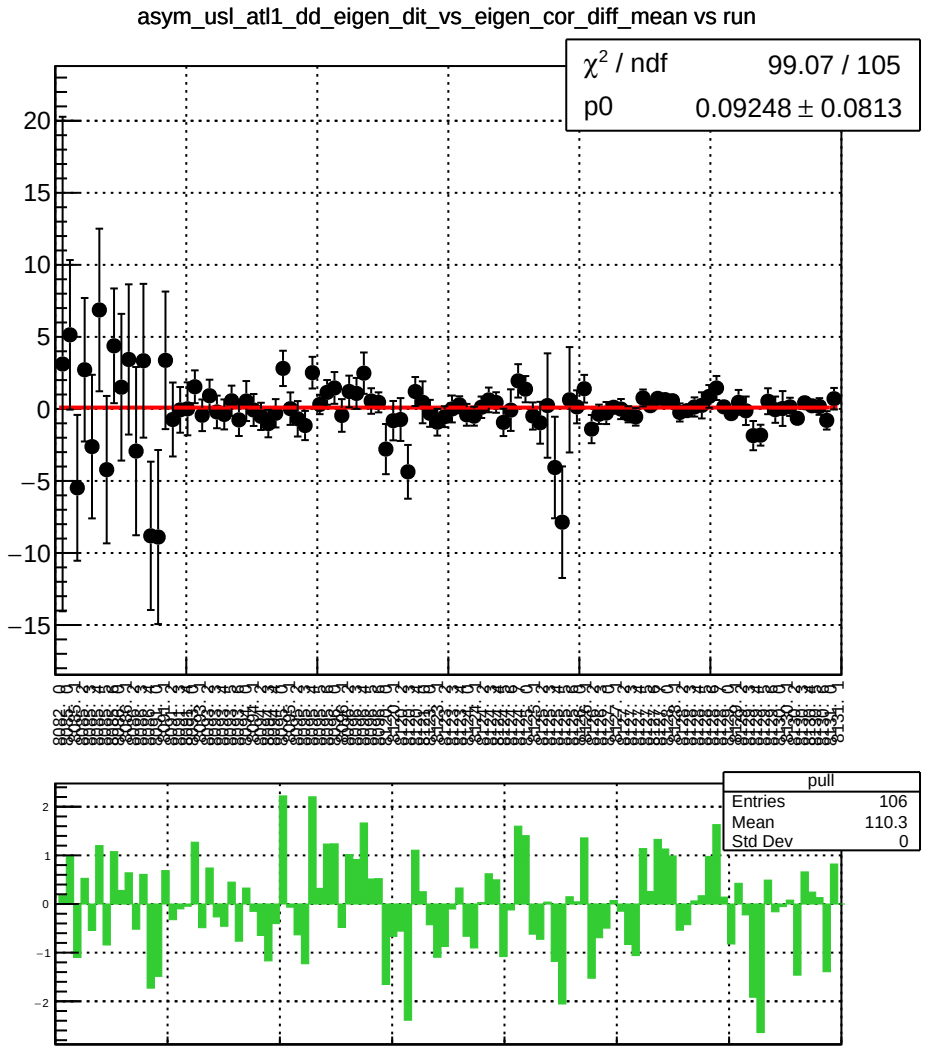

pull1D
Entries 105
Mean 0.003589
Std Dev 0.8538

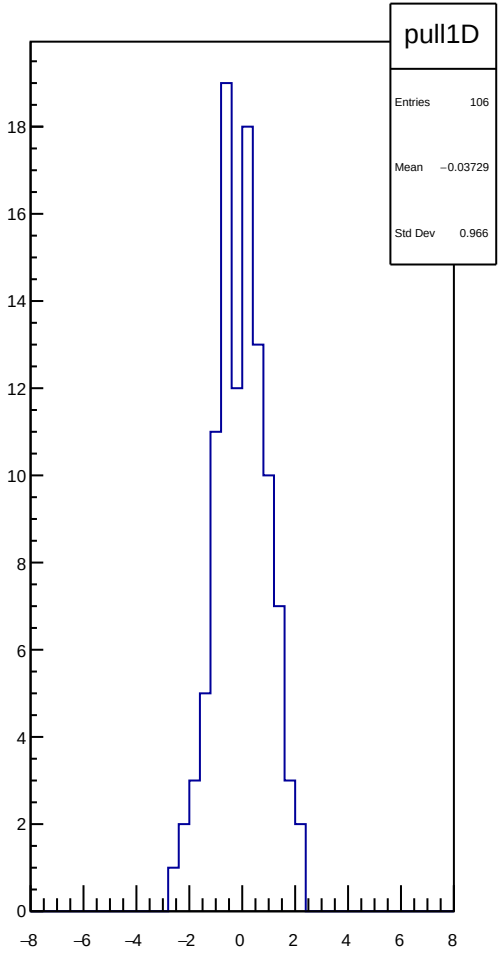

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.385e+05 / 104
p0 0.003645 ± 2.904e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002

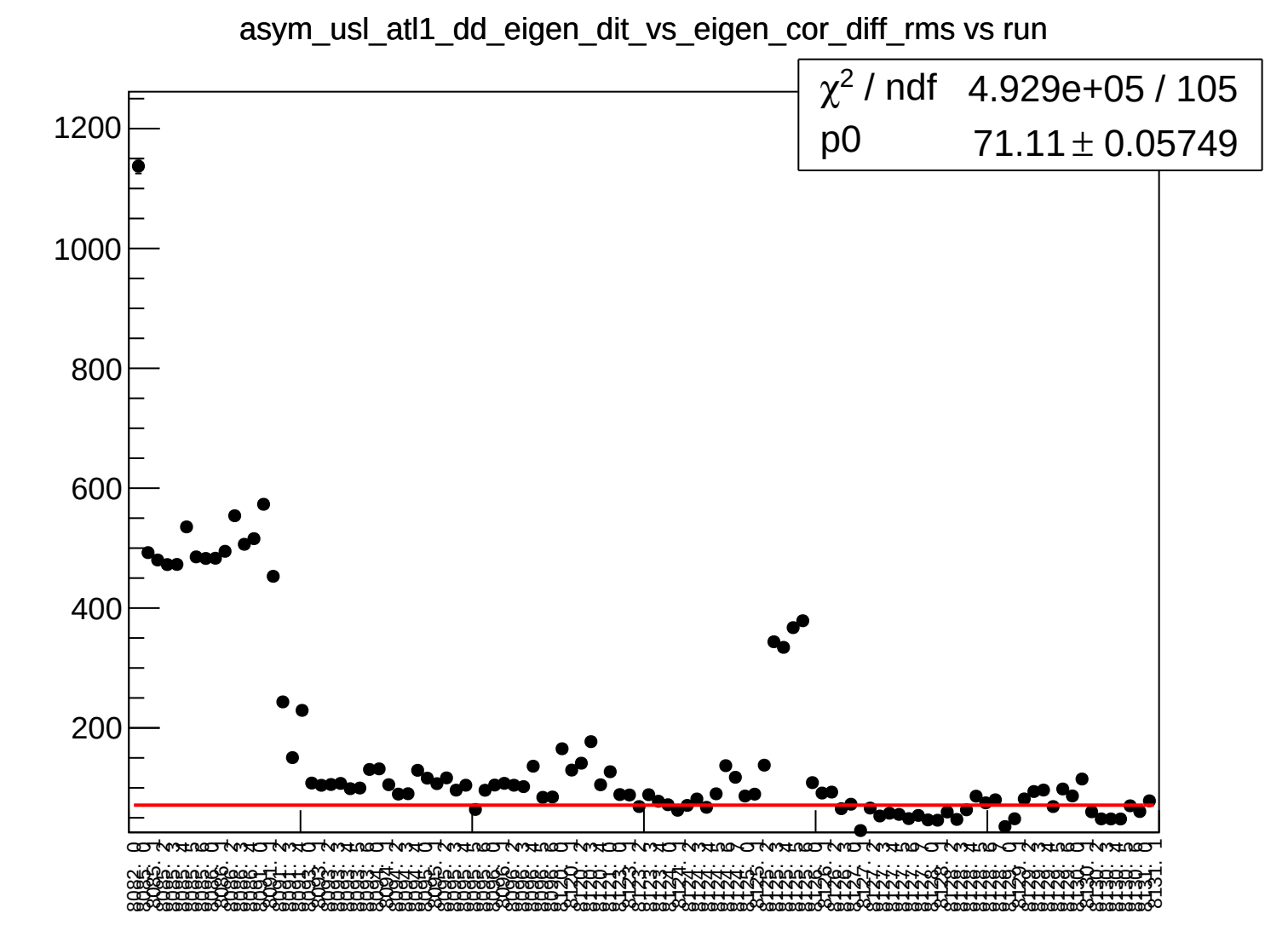

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 99.07 / 105
p0 0.09248 ± 0.0813
pull
Entries 106
Mean 110.3
Std Dev 0

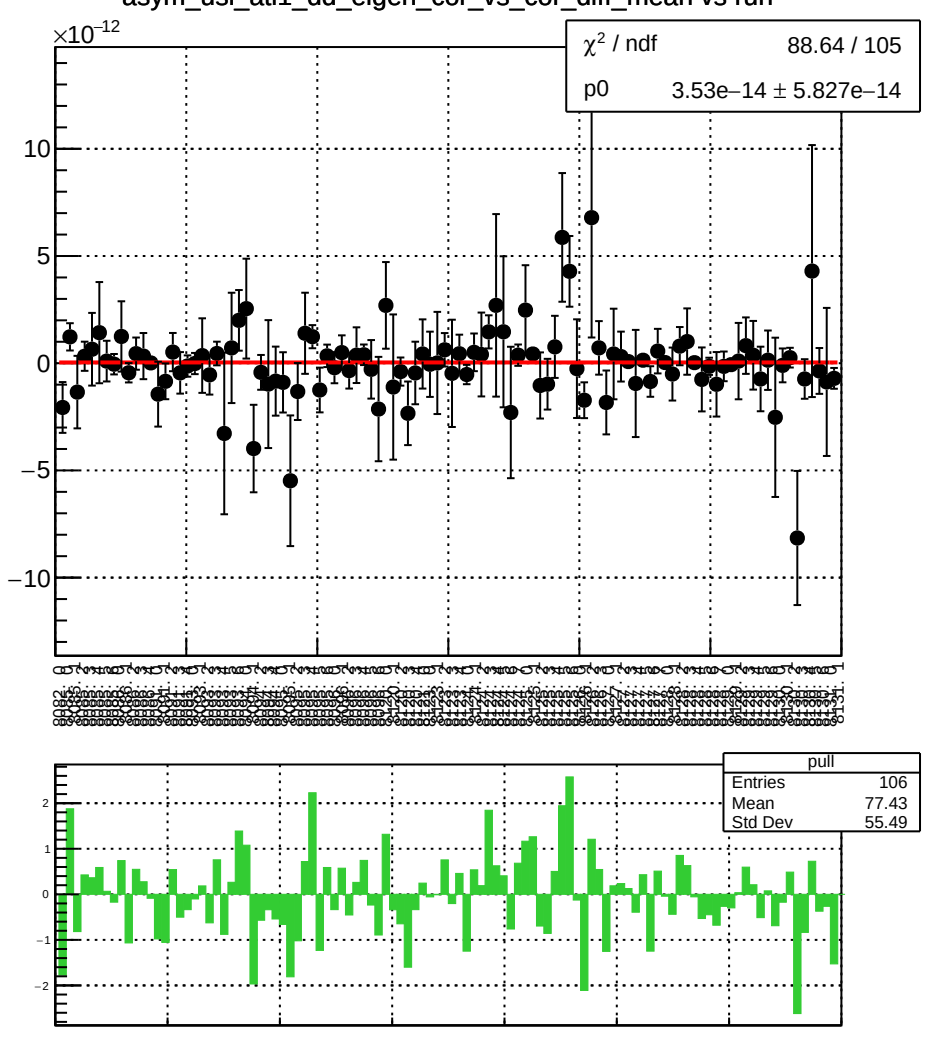

pull1D
Entries 106
Mean −0.03729
Std Dev 0.966

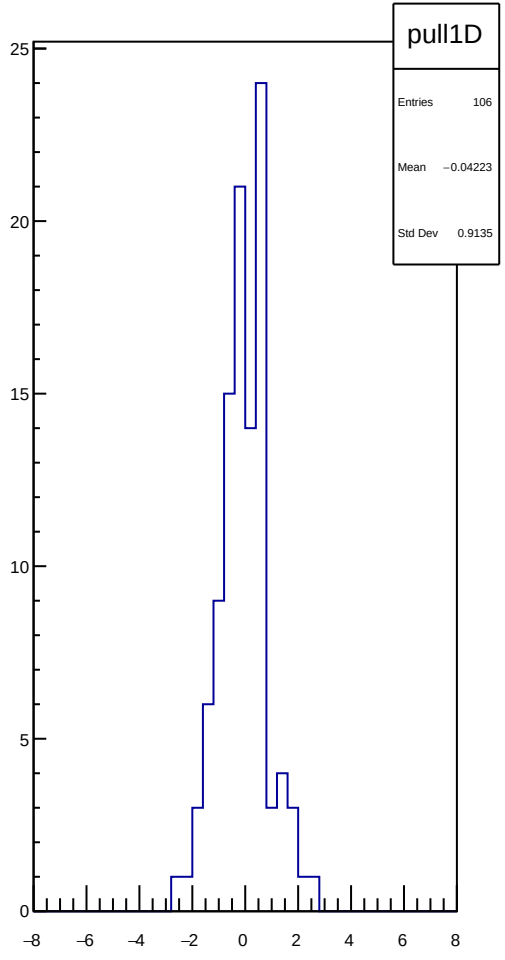

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.929e+05 / 105
p0 71.11 ± 0.05749
1200
1000
800
600
400
200

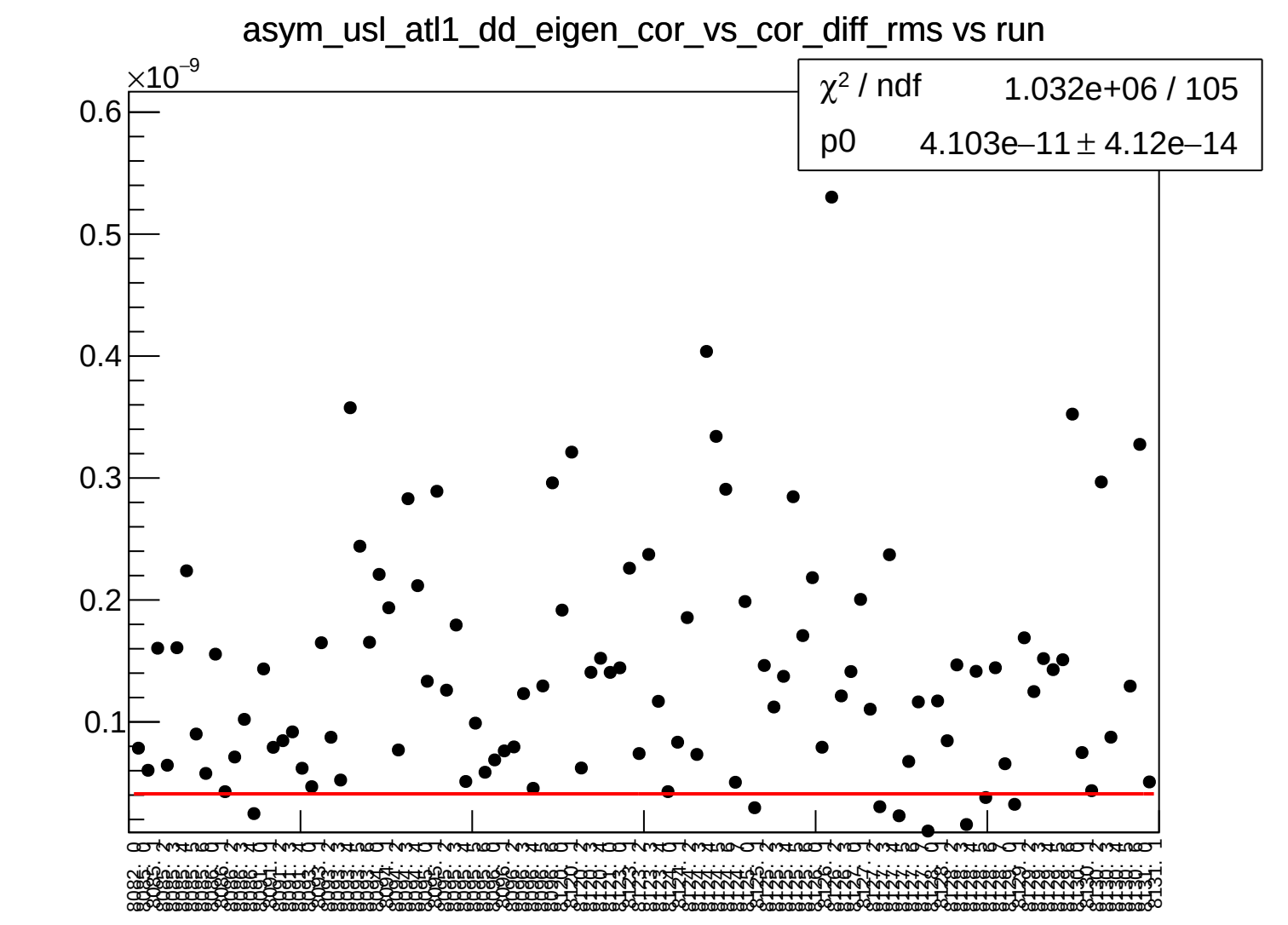

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.07 / 105
p0 0.09248 ± 0.0813
pull
Entries 106
Mean 110.3
Std Dev 0

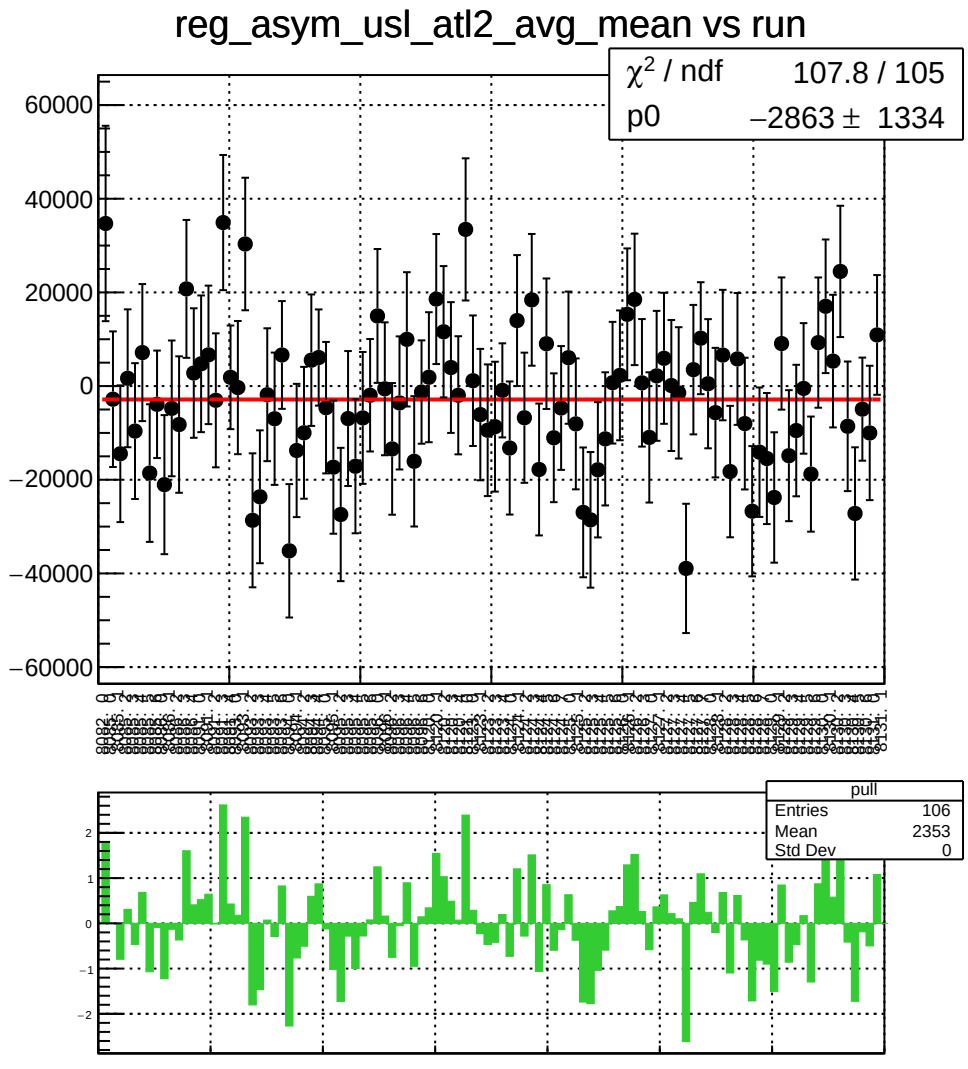

pull1D
Entries 106
Mean −0.03729
Std Dev 0.966

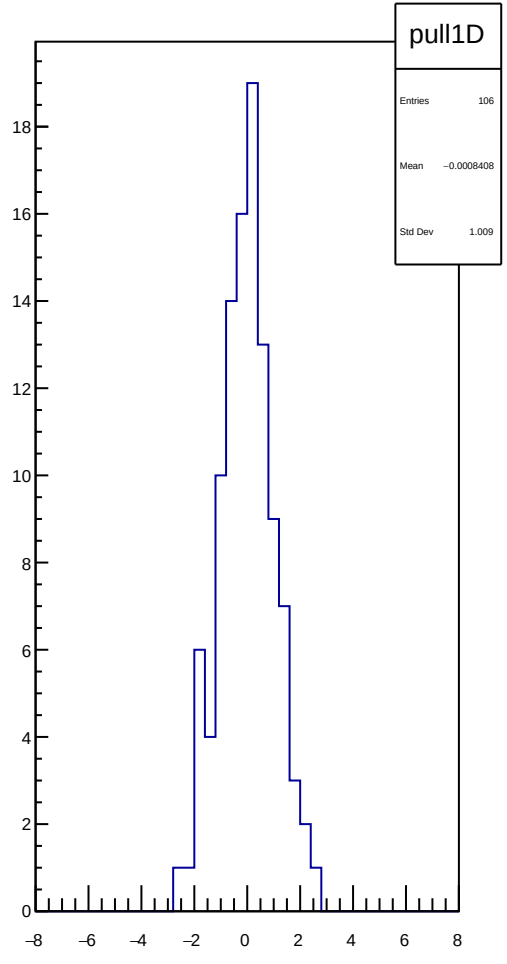

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
$\chi^2$ / ndf 4.929e+05 / 105
p0 71.11 ± 0.05749
1200
1000
800
600
400
200

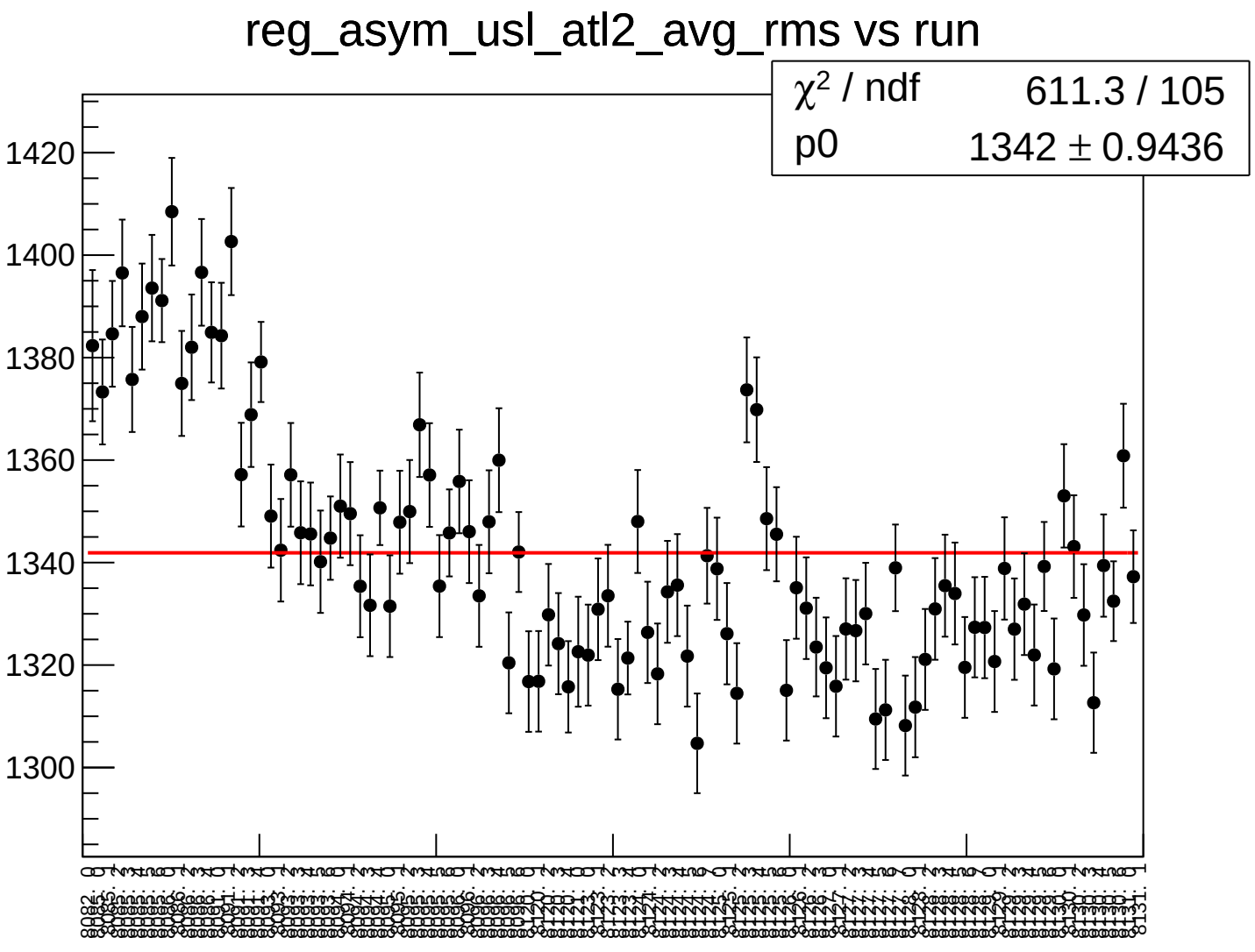

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 88.64 / 105
p0 3.53e−14 ± 5.827e−14
10
5
0
−5
−10
pull
Entries 106
Mean 77.43
Std Dev 55.49
2
1
0
−1
−2

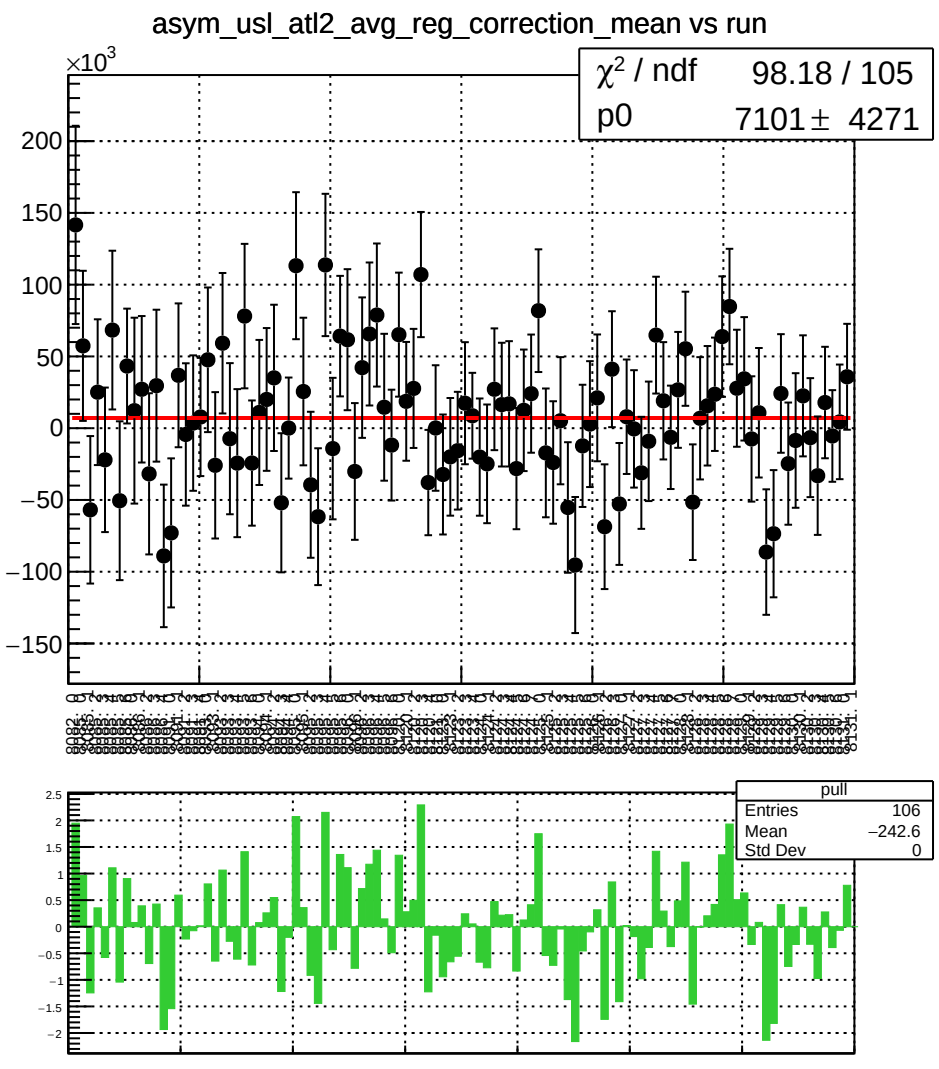

pull1D
Entries 106
Mean −0.04223
Std Dev 0.9135
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

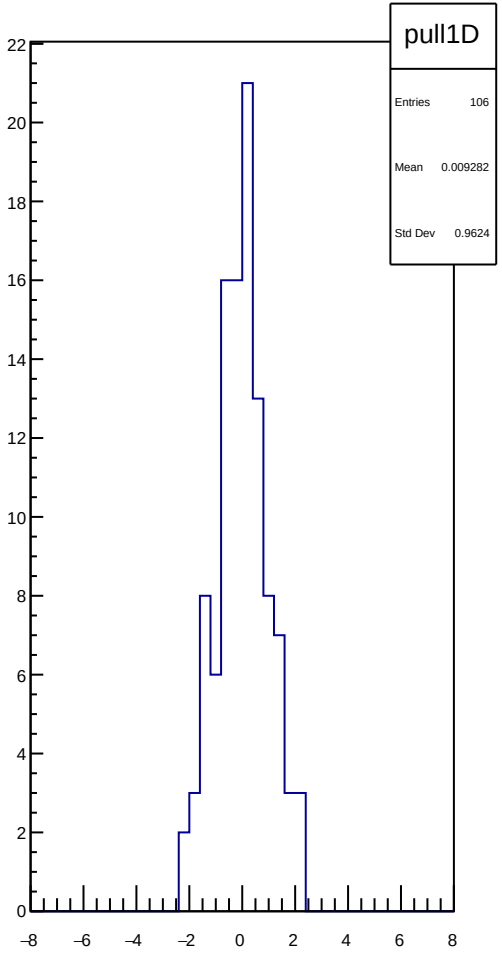

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.032e+06 / 105
p0 4.103e−11 ± 4.12e−14
0.6
0.5
0.4
0.3
0.2
0.1

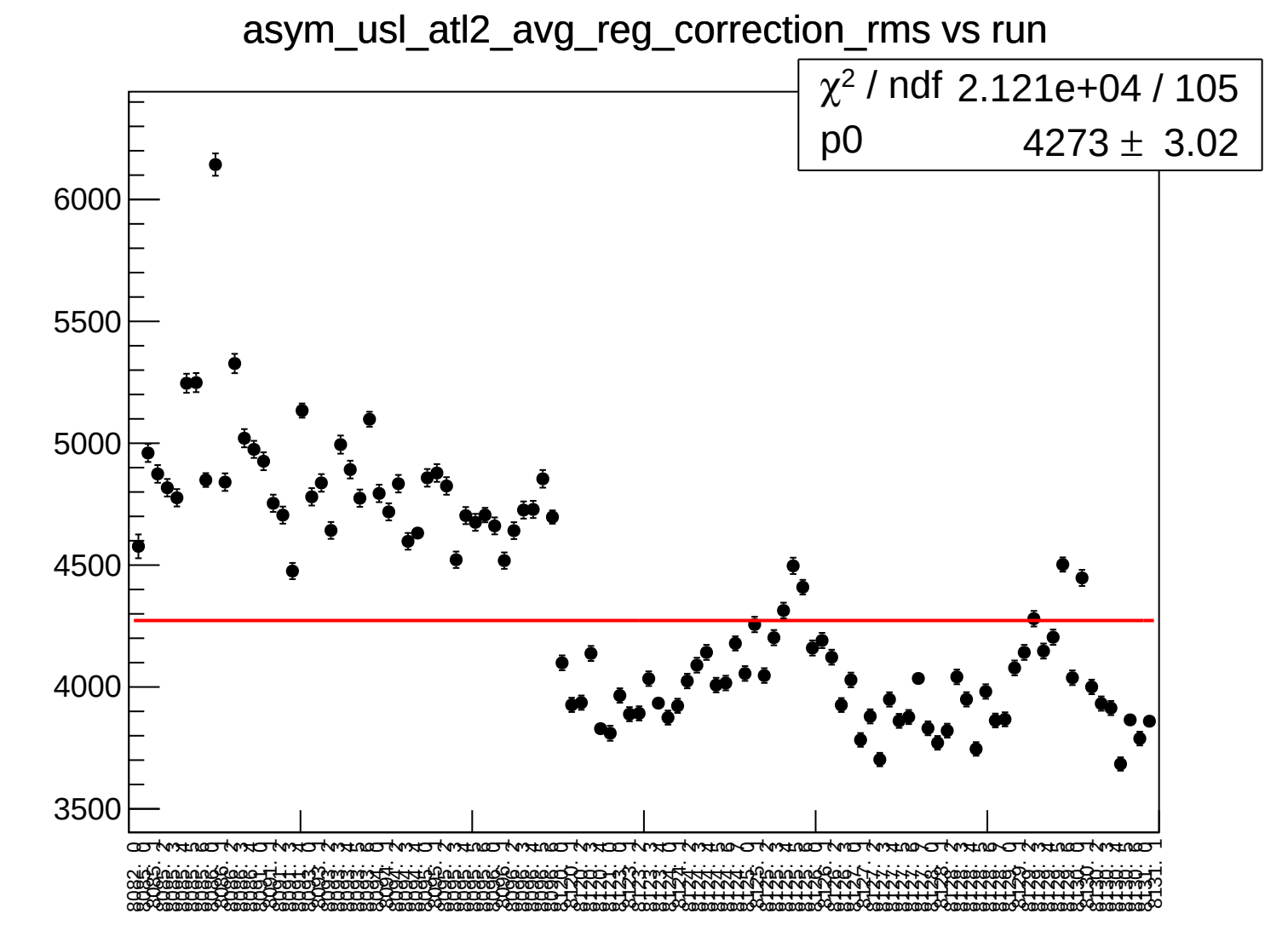

reg_asym_usl_atl2_avg_mean vs run
χ² / ndf 107.8 / 105
p0 −2863 ± 1334
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean 2353
Std Dev 0
2
1
0
−1
−2

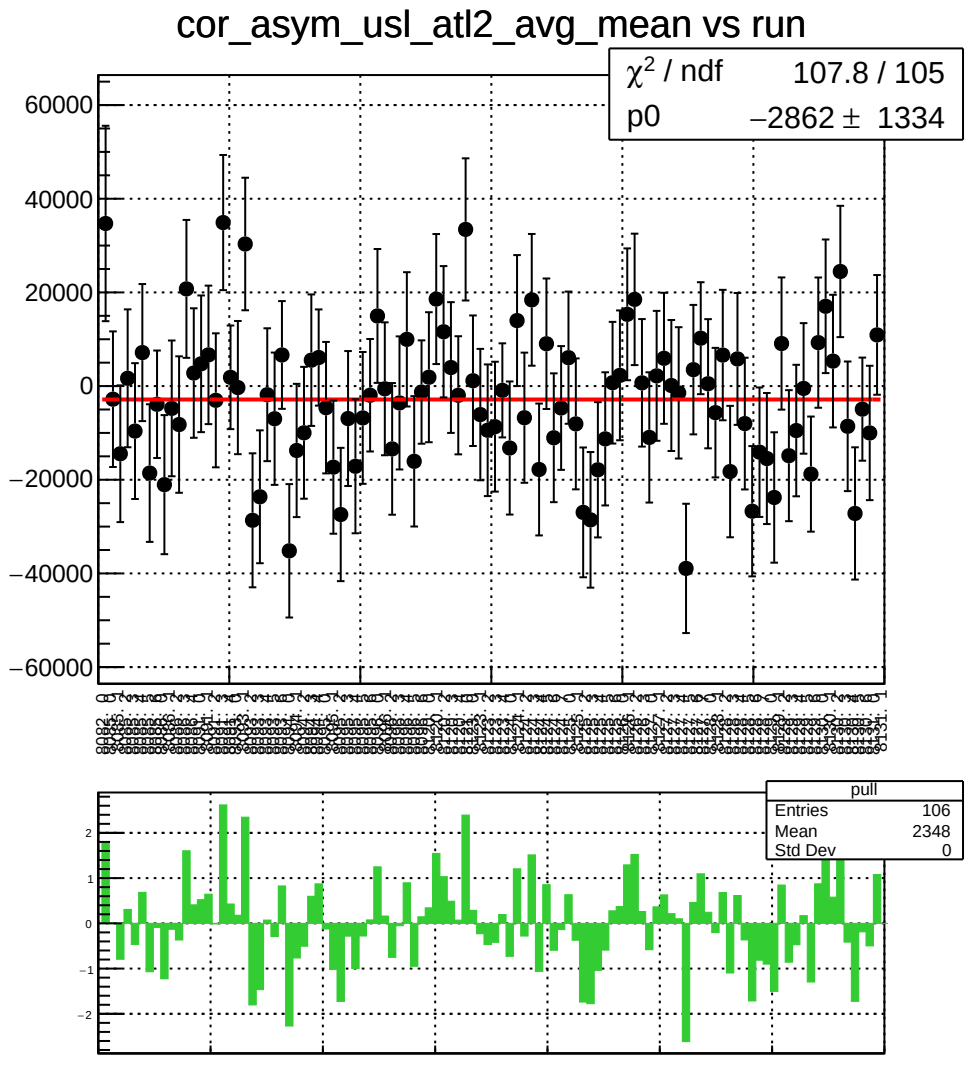

pull1D
Entries 106
Mean −0.0008408
Std Dev 1.009
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

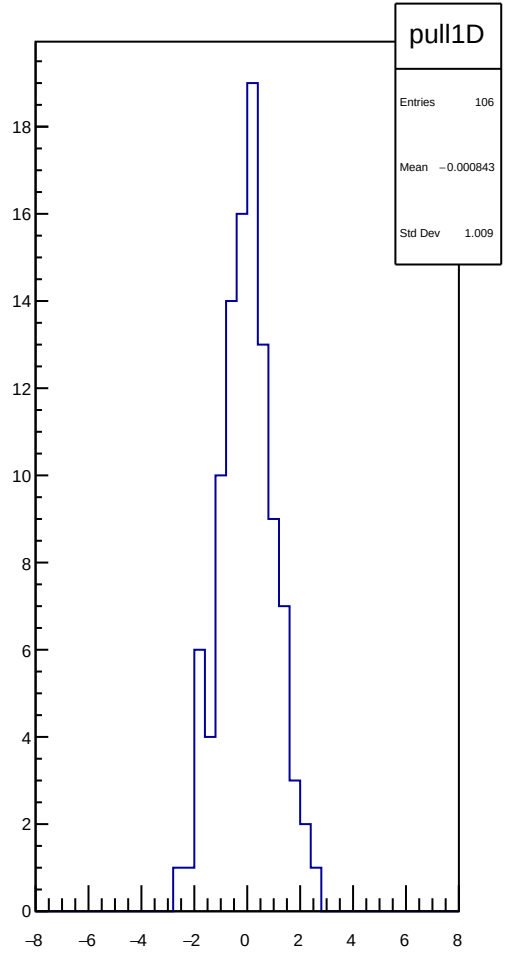

reg_asym_usl_atl2_avg_rms vs run
χ² / ndf 611.3 / 105
p0 1342 ± 0.9436
1420
1400
1380
1360
1340
1320
1300

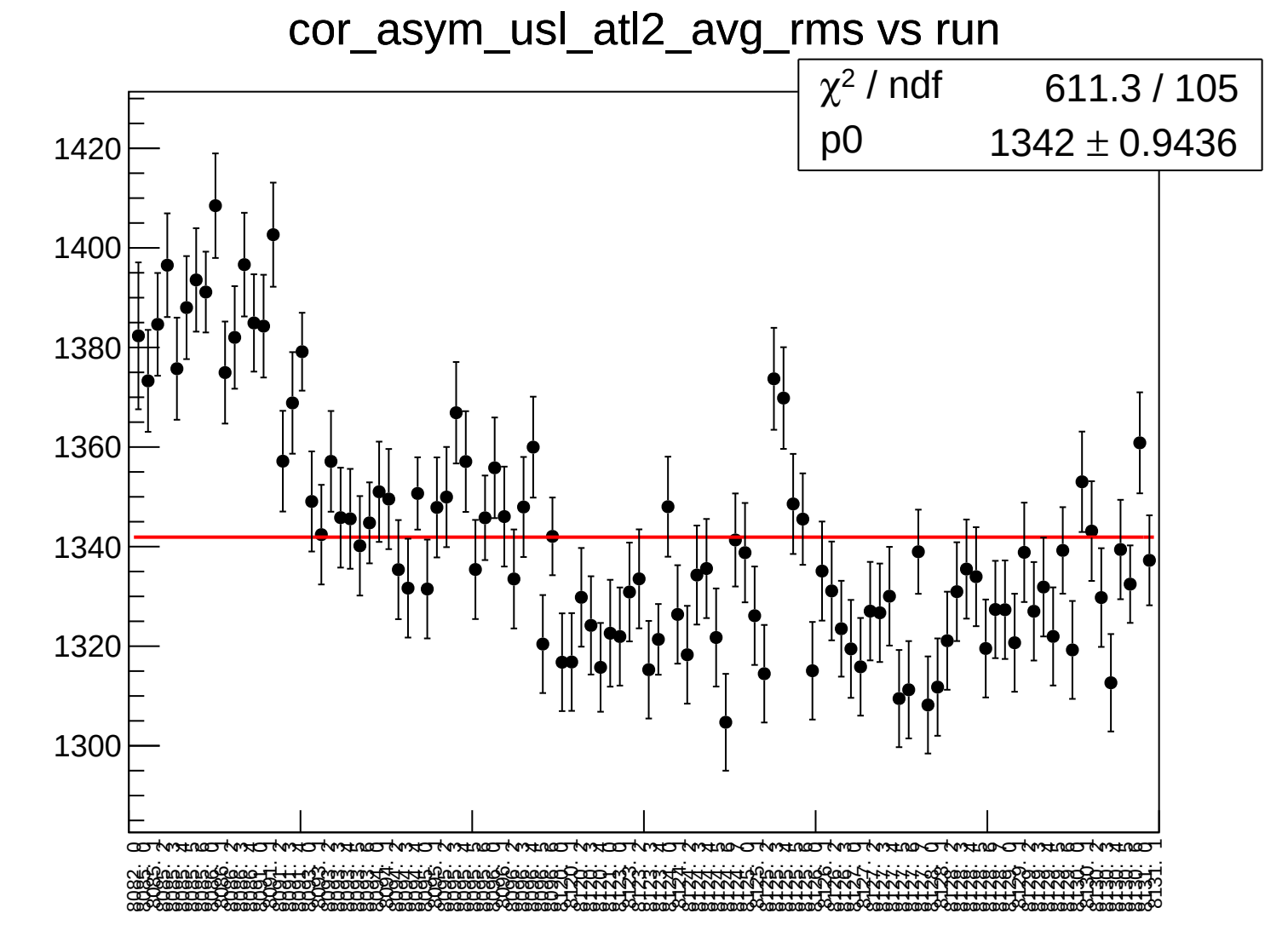

asym_usl_atl2_avg_reg_correction_mean vs run
χ² / ndf 98.18 / 105
p0 7101 ± 4271
×10³
pull
Entries 106
Mean −242.6
Std Dev 0

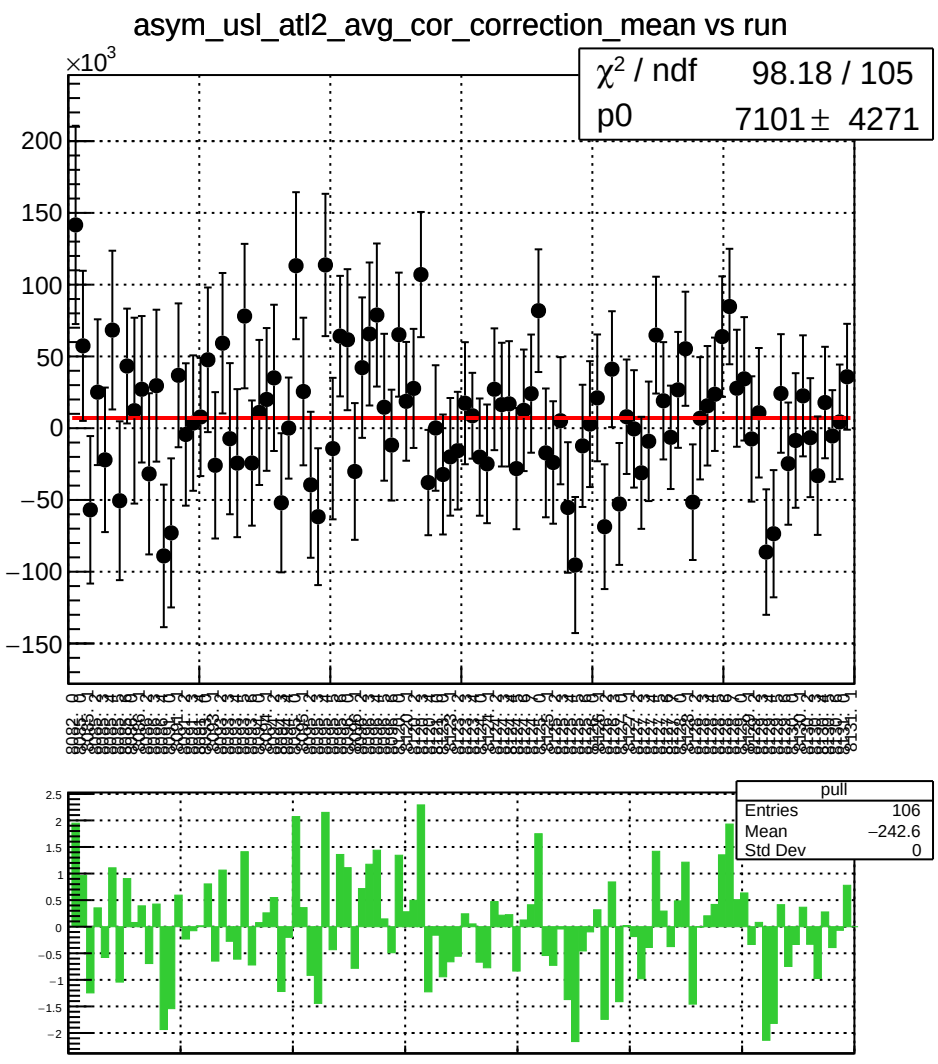

pull1D
Entries 106
Mean 0.009282
Std Dev 0.9624

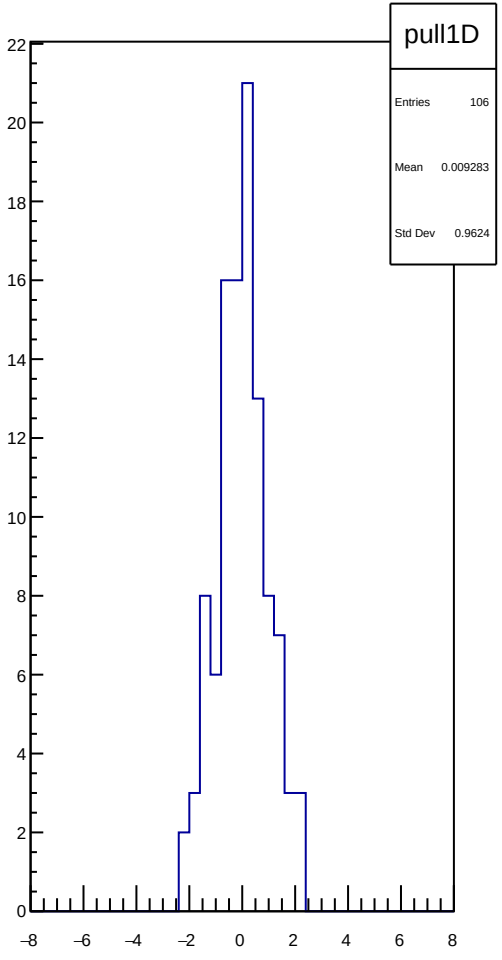

asym_usl_atl2_avg_reg_correction_rms vs run
χ² / ndf 2.121e+04 / 105
p0 4273 ± 3.02
6000
5500
5000
4500
4000
3500

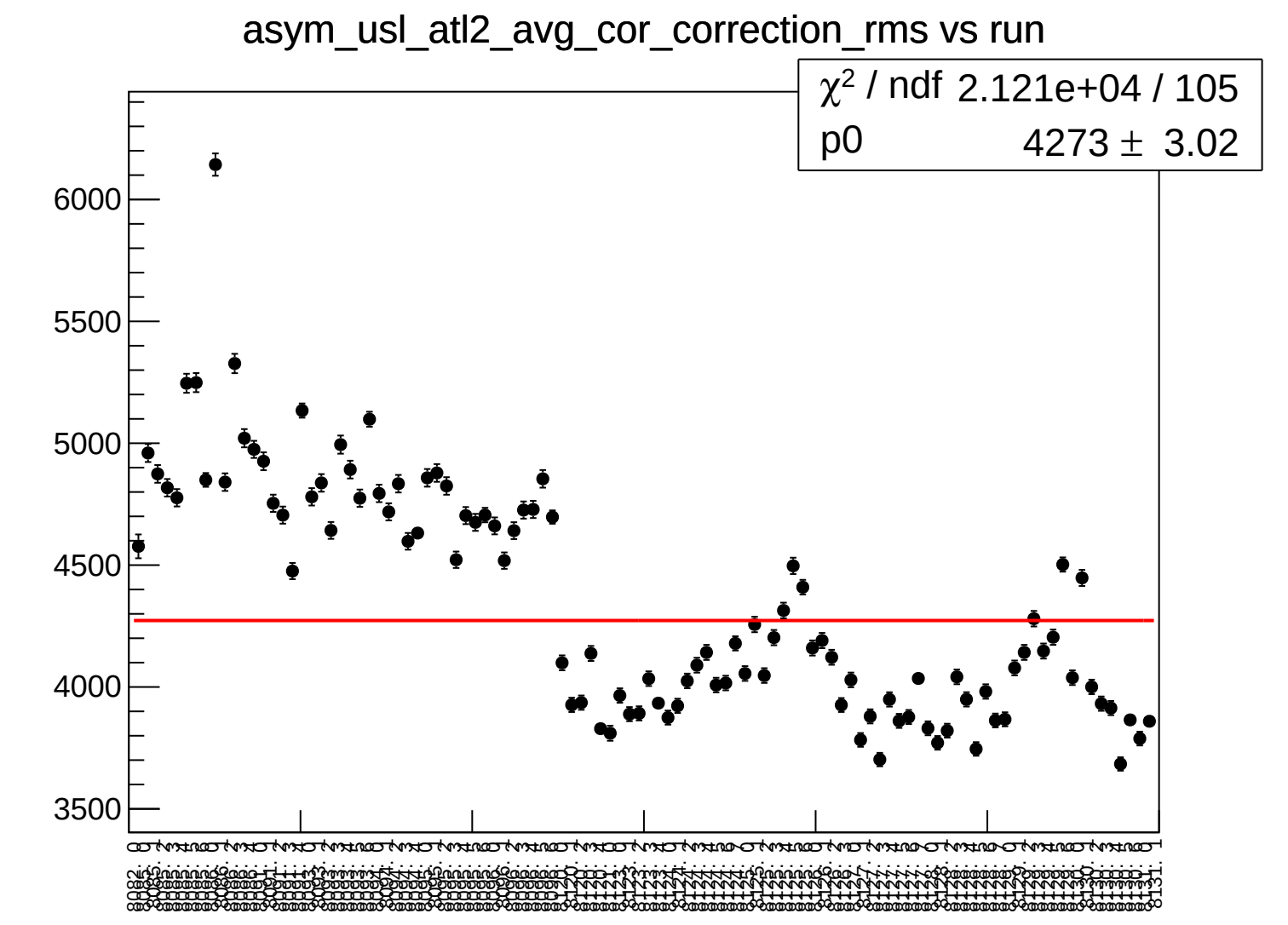

cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 107.8 / 105
p0 −2862 ± 1334
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean 2348
Std Dev 0
2
1
0
−1
−2

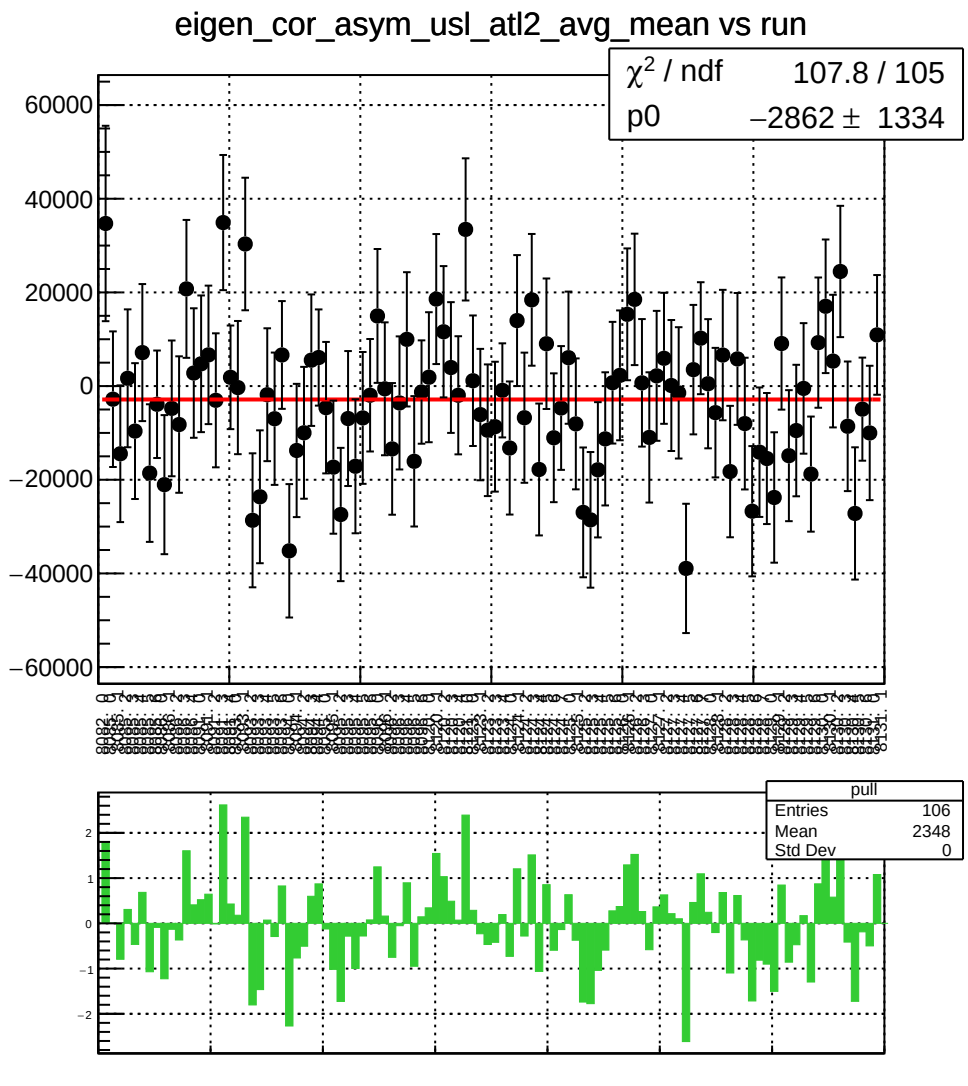

pull1D
Entries 106
Mean −0.000843
Std Dev 1.009
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

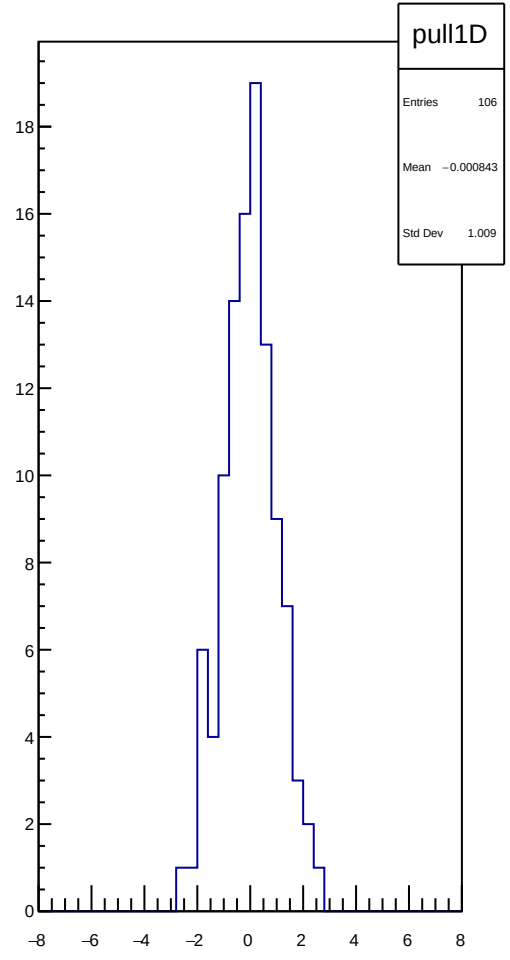

cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 611.3 / 105
p0 1342 ± 0.9436
1420
1400
1380
1360
1340
1320
1300

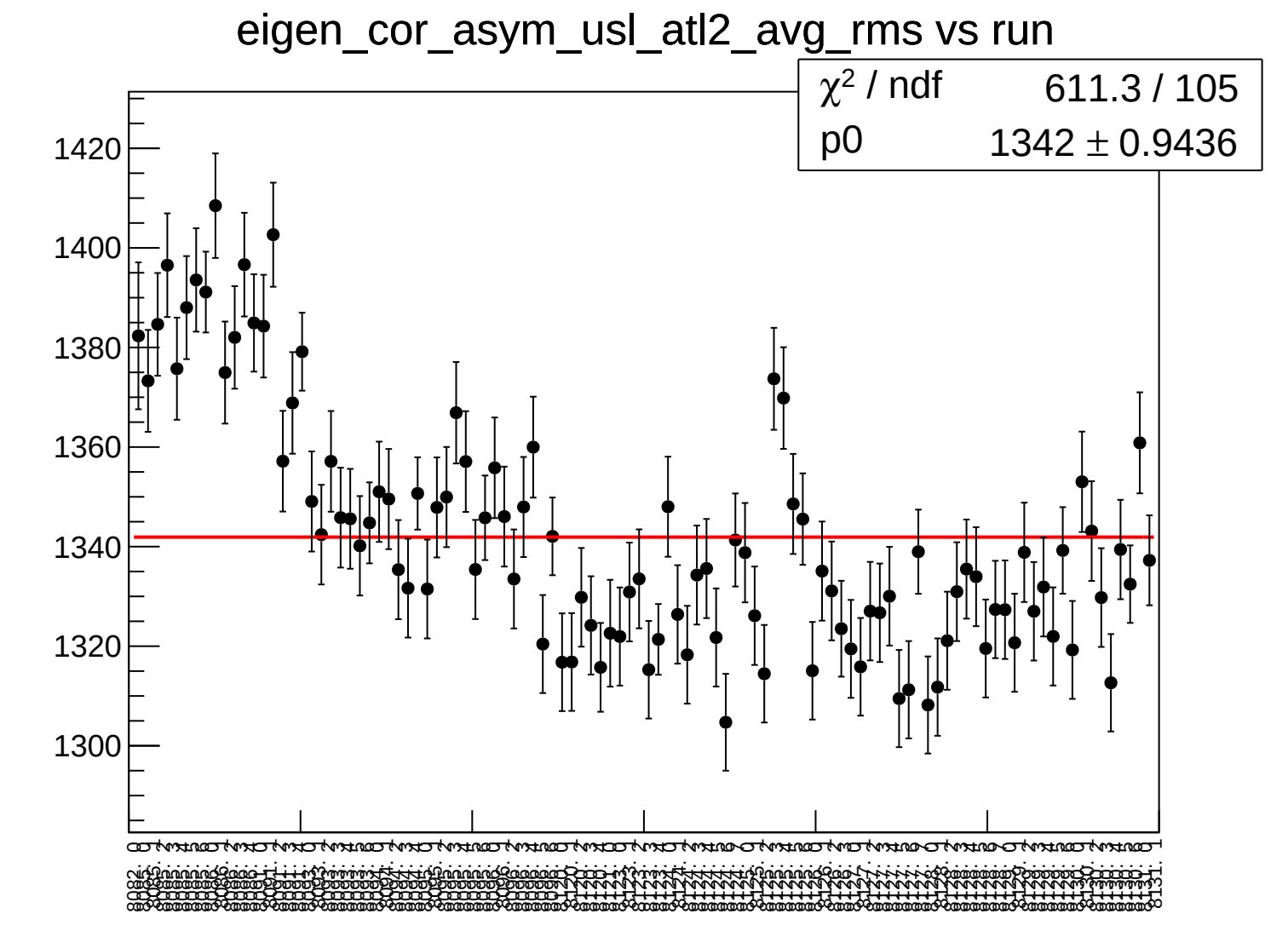

asym_usl_atl2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 98.18 / 105
p0 7101 ± 4271
pull
Entries 106
Mean −242.6
Std Dev 0

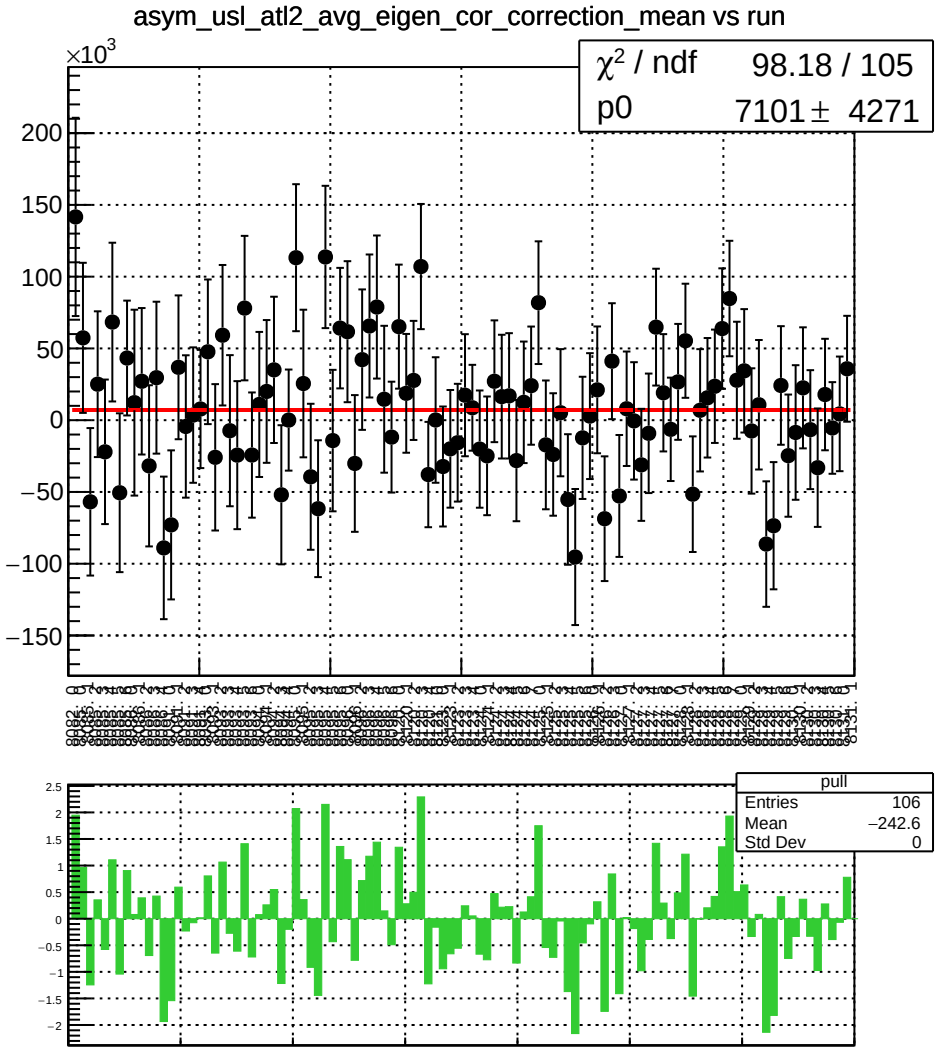

pull1D
Entries 106
Mean 0.009283
Std Dev 0.9624

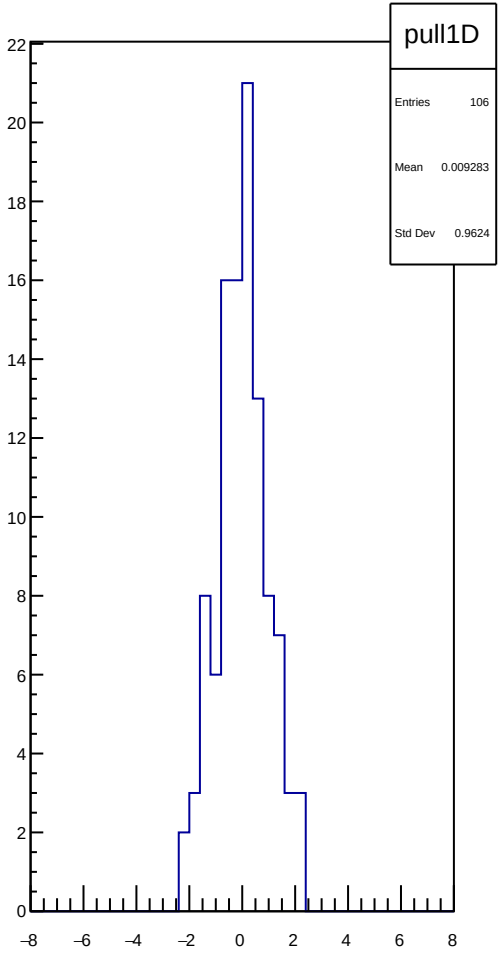

asym_usl_atl2_avg_cor_correction_rms vs run
χ² / ndf 2.121e+04 / 105
p0 4273 ± 3.02
6000
5500
5000
4500
4000
3500

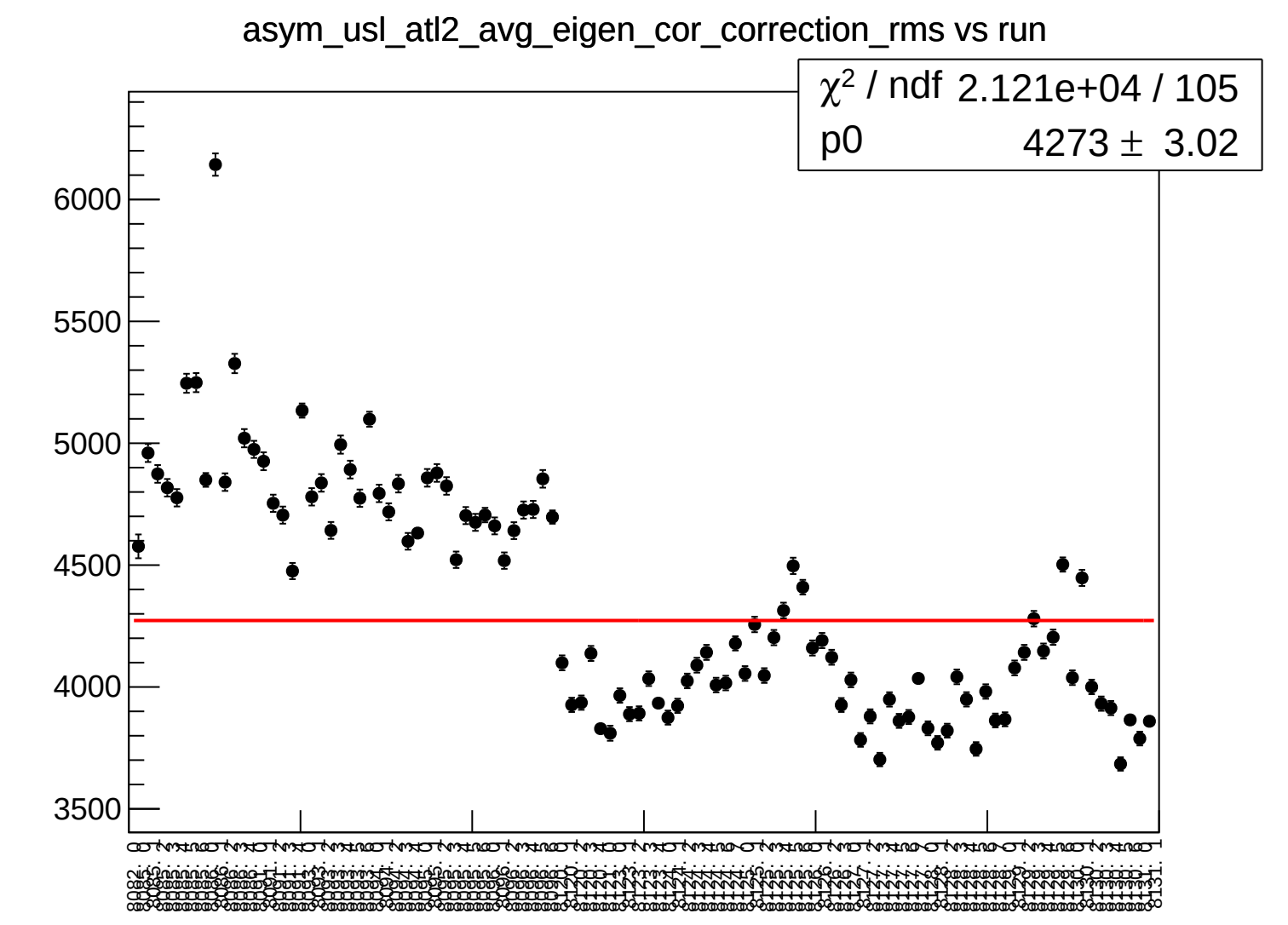

eigen_cor_asym_usl_atl2_avg_mean vs run
χ² / ndf 107.8 / 105
p0 −2862 ± 1334
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean 2348
Std Dev 0
2
1
0
−1
−2

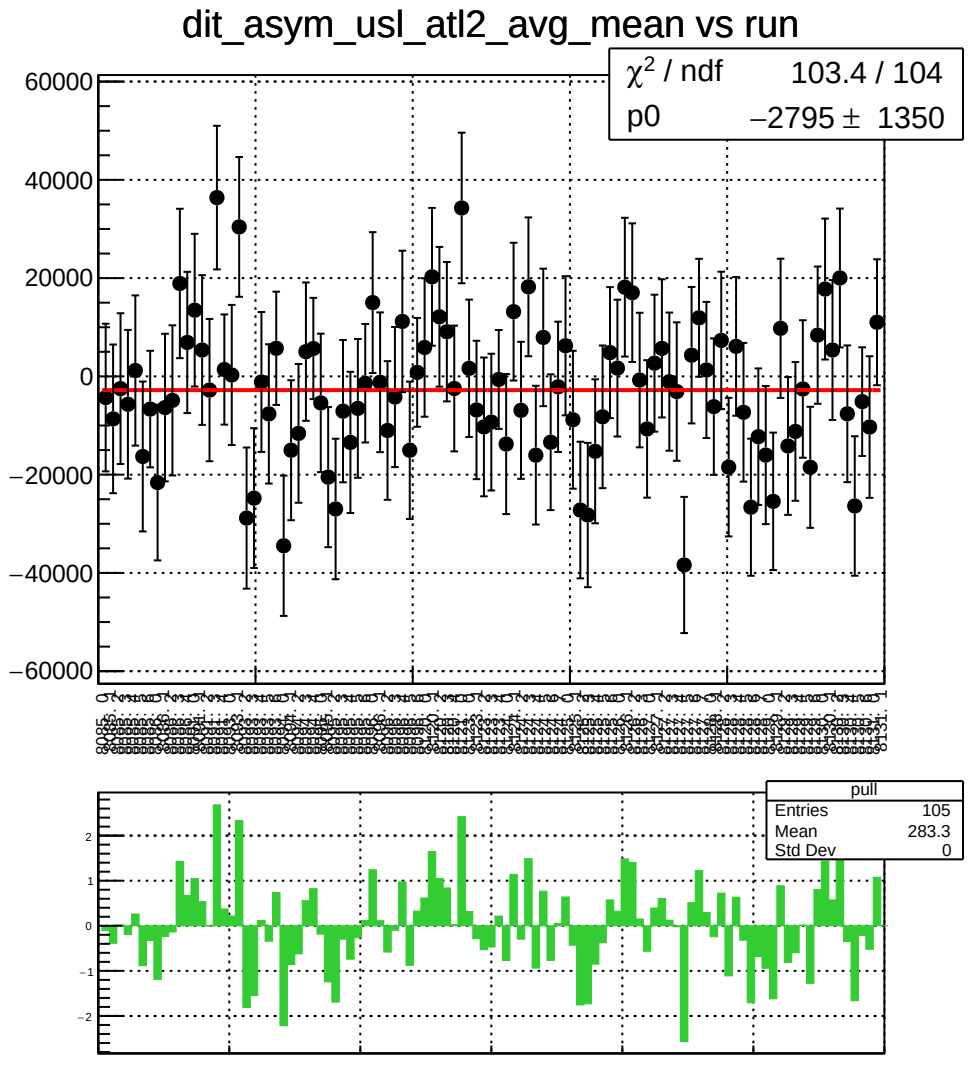

pull1D
Entries 106
Mean −0.000843
Std Dev 1.009
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

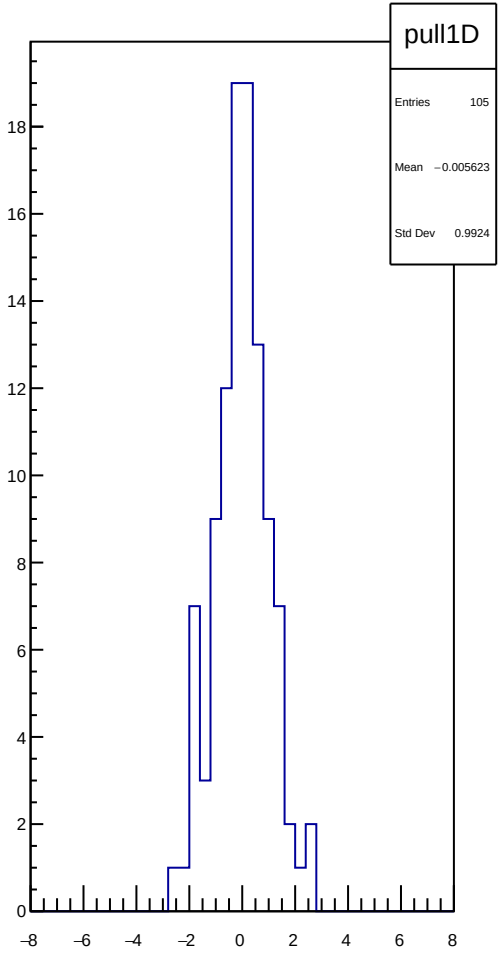

eigen_cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 611.3 / 105
p0 1342 ± 0.9436
1420
1400
1380
1360
1340
1320
1300

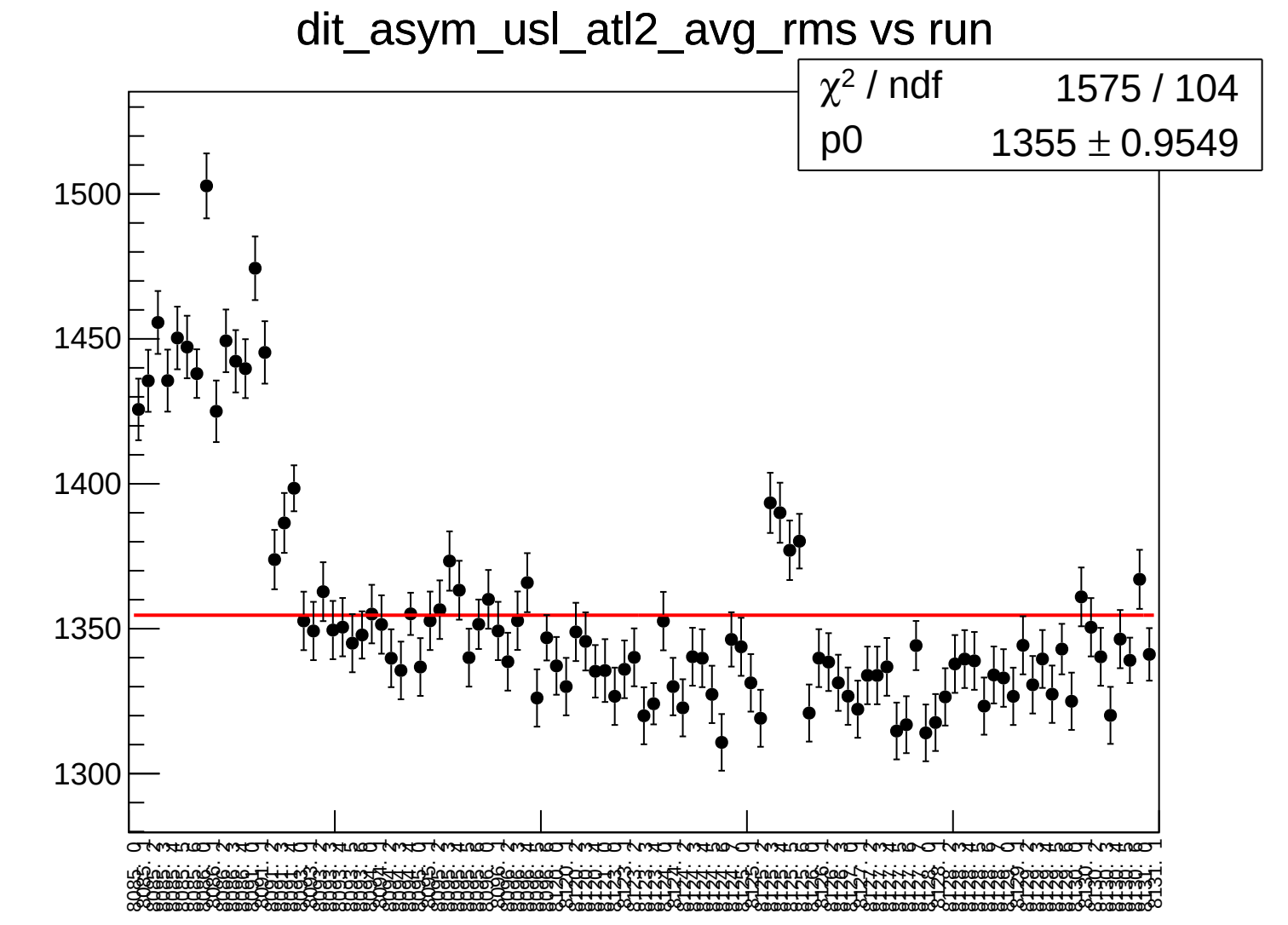

asym_usl_atl2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 98.18 / 105
p0 7101 ± 4271
pull
Entries 106
Mean −242.6
Std Dev 0

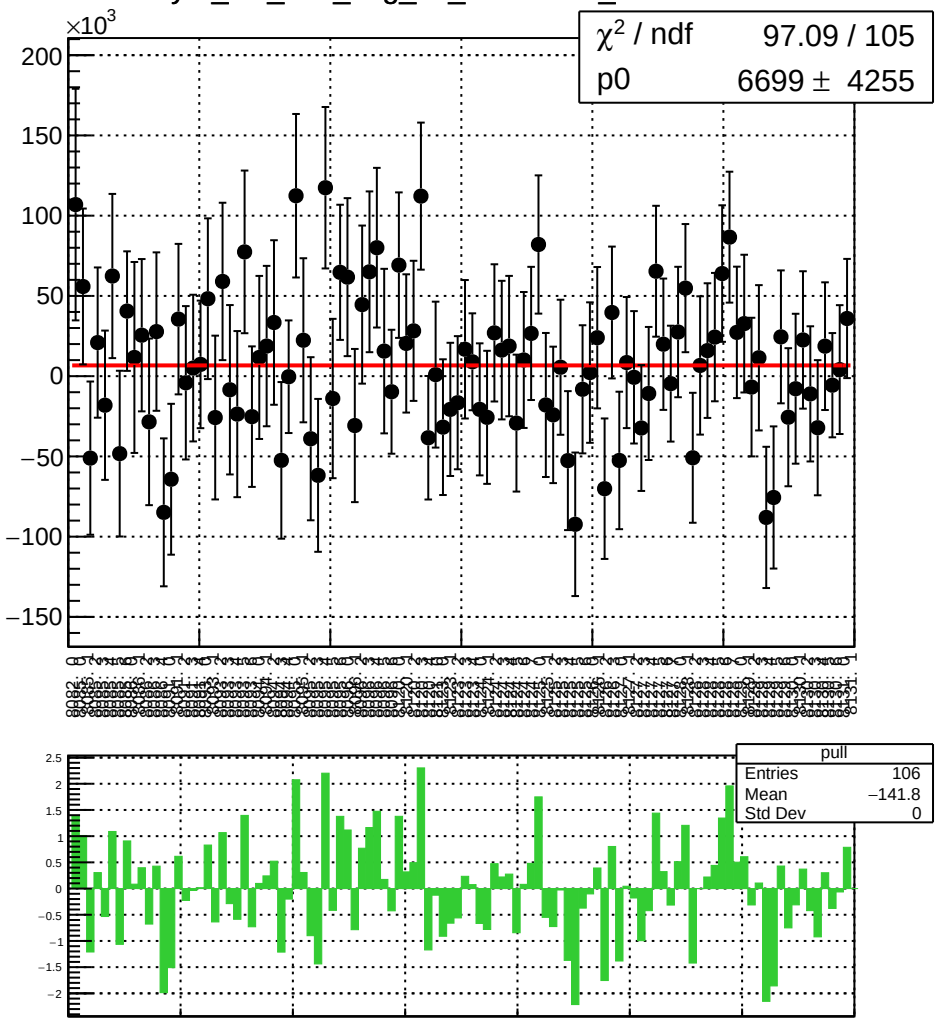

pull1D
Entries 106
Mean 0.009283
Std Dev 0.9624

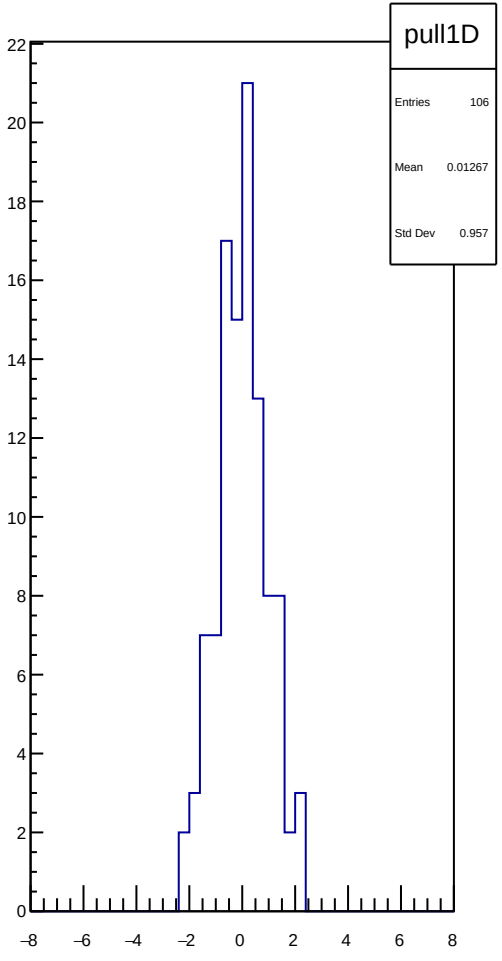

asym_usl_atl2_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.121e+04 / 105
p0 4273 ± 3.02
6000
5500
5000
4500
4000
3500

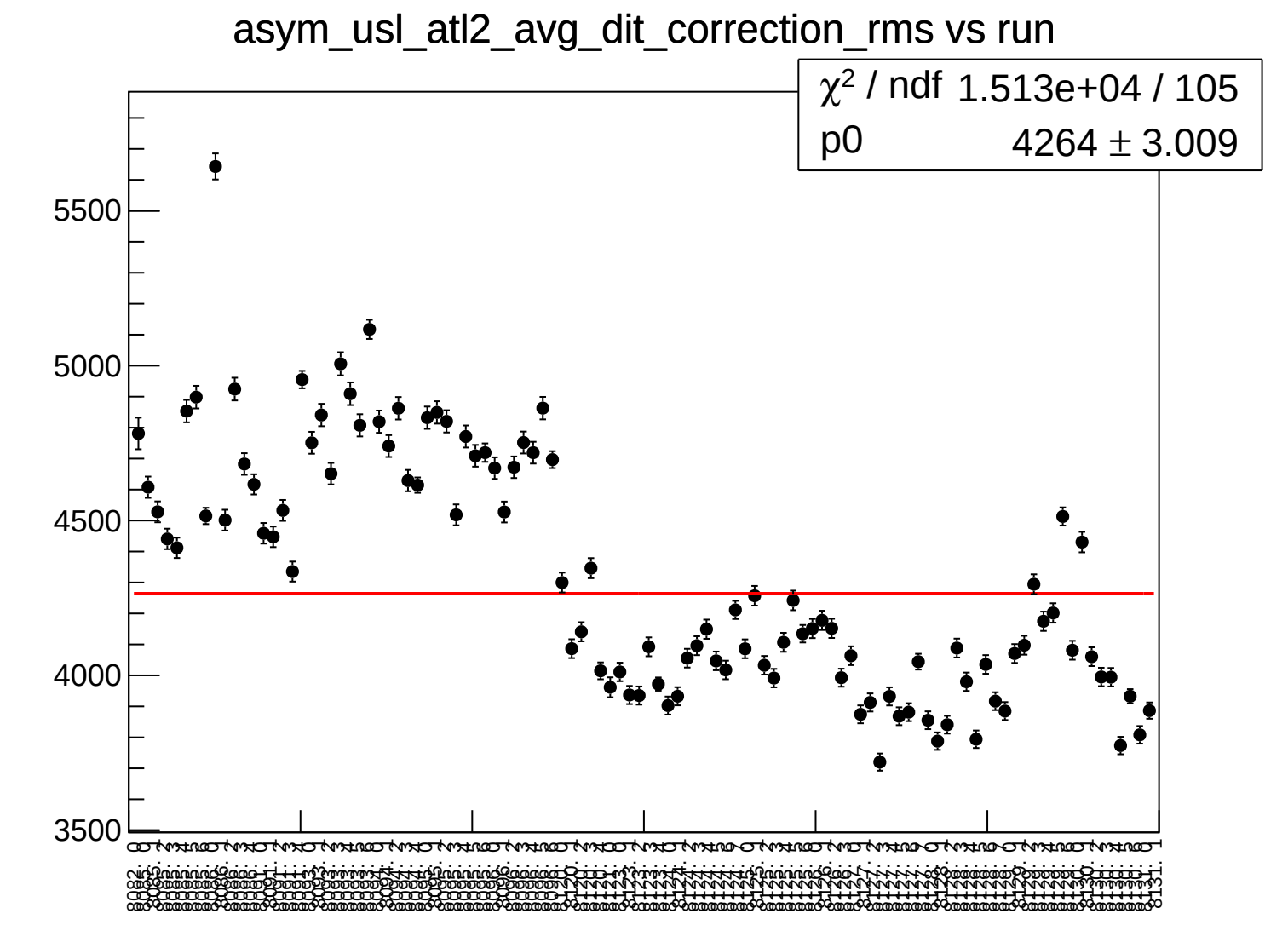

dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 103.4 / 104
p0 −2795 ± 1350
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean 283.3
Std Dev 0
2
1
0
−1
−2

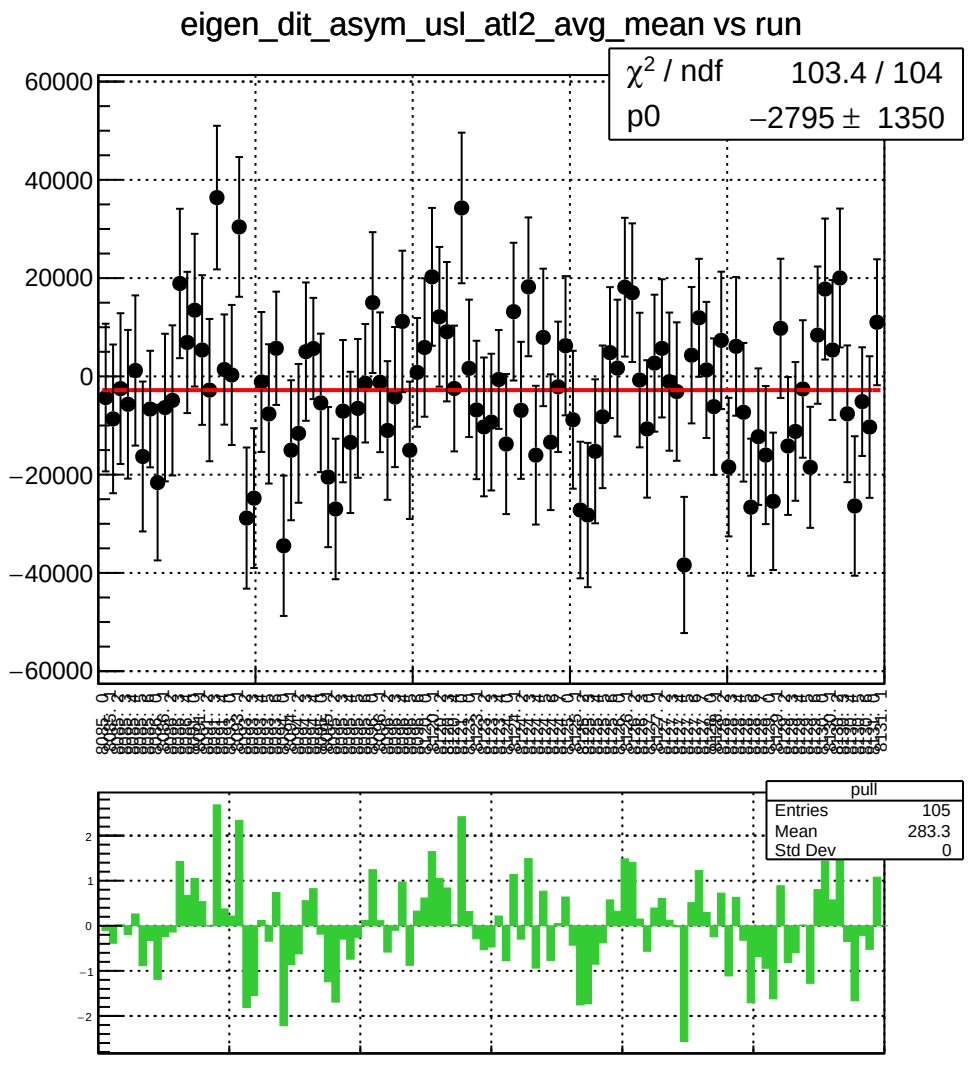

pull1D
Entries 105
Mean −0.005623
Std Dev 0.9924
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

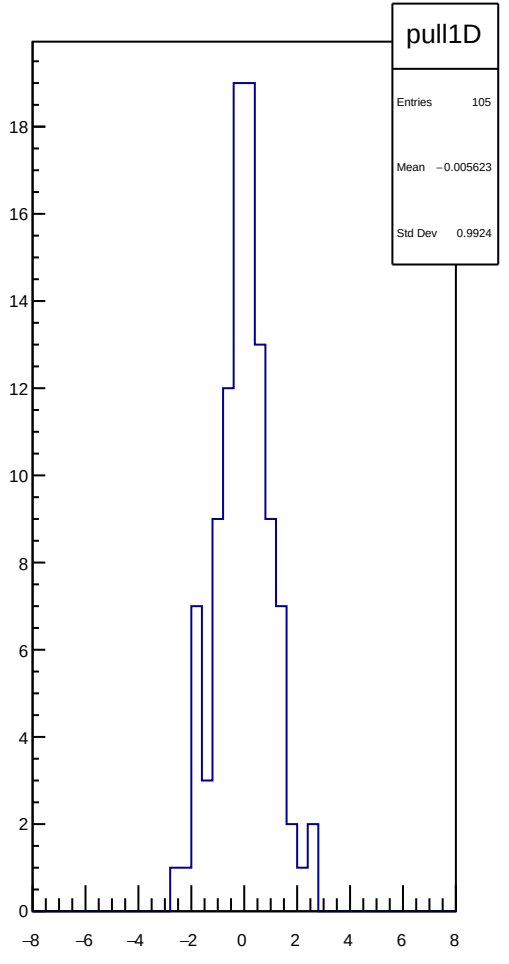

dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 1575 / 104
p0 1355 ± 0.9549
1500
1450
1400
1350
1300

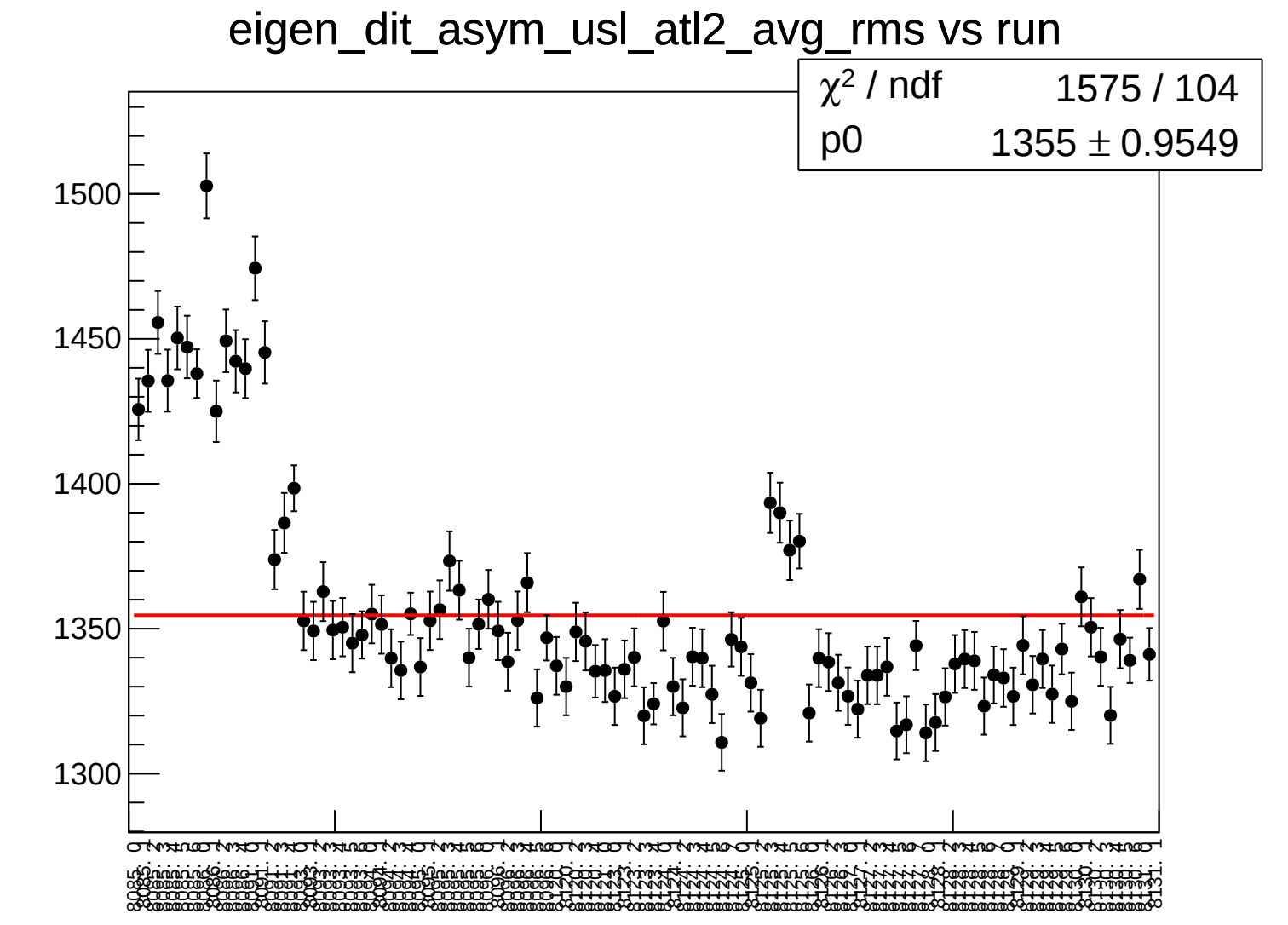

asym_usl_atl2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 97.09 / 105
p0 6699 ± 4255
pull
Entries 106
Mean −141.8
Std Dev 0

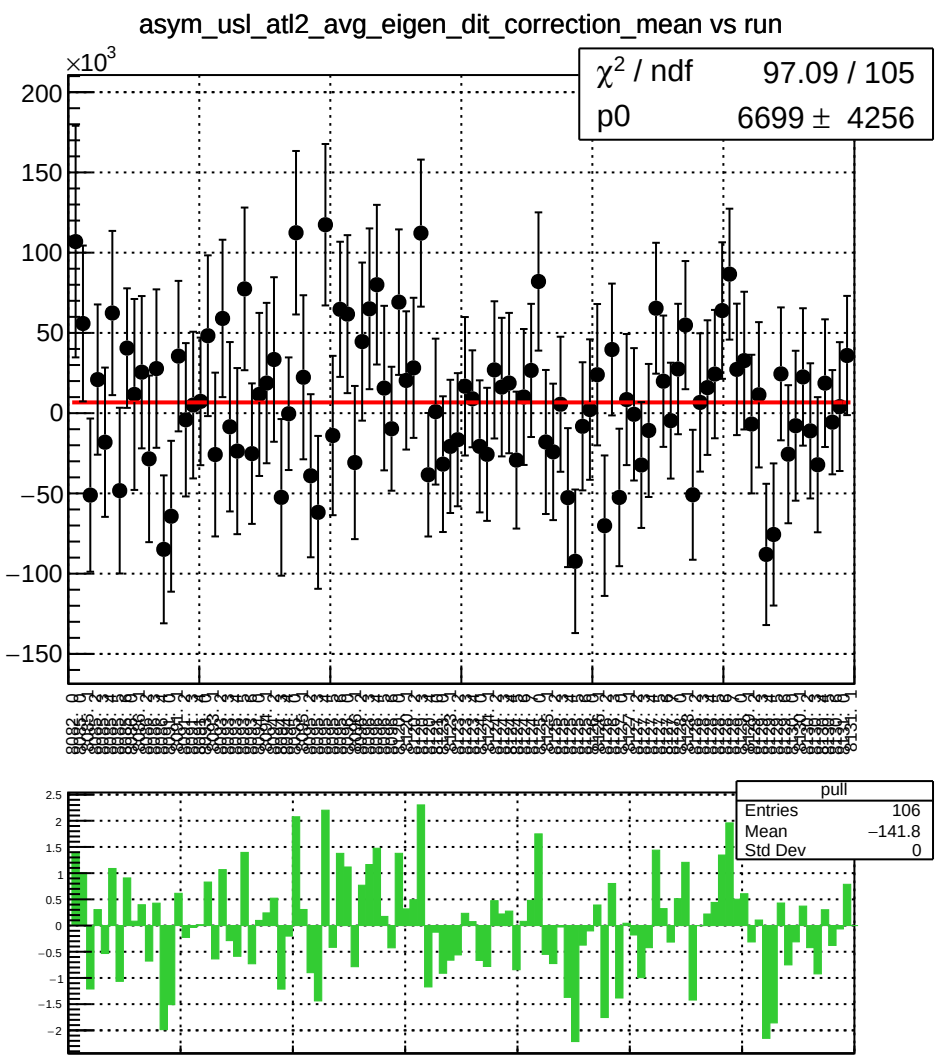

pull1D
Entries 106
Mean 0.01267
Std Dev 0.957

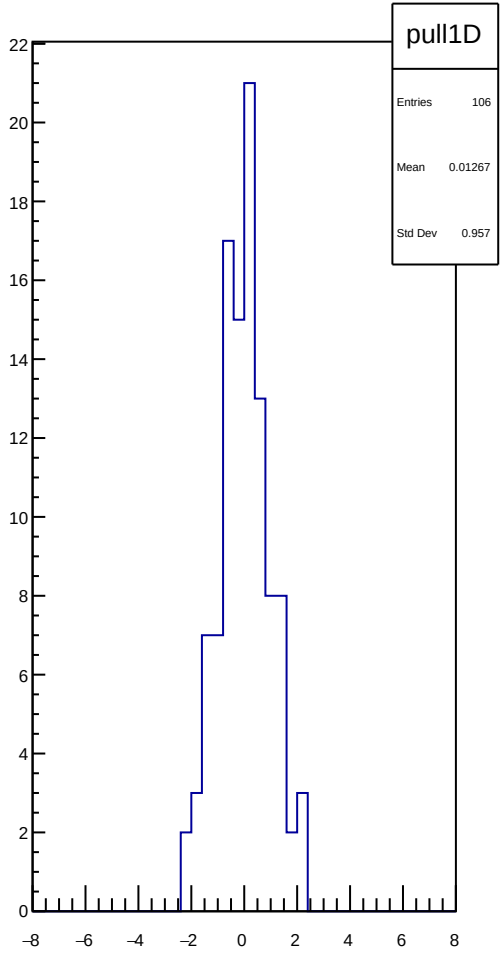

asym_usl_atl2_avg_dit_correction_rms vs run
χ² / ndf 1.513e+04 / 105
p0 4264 ± 3.009
5500
5000
4500
4000
3500

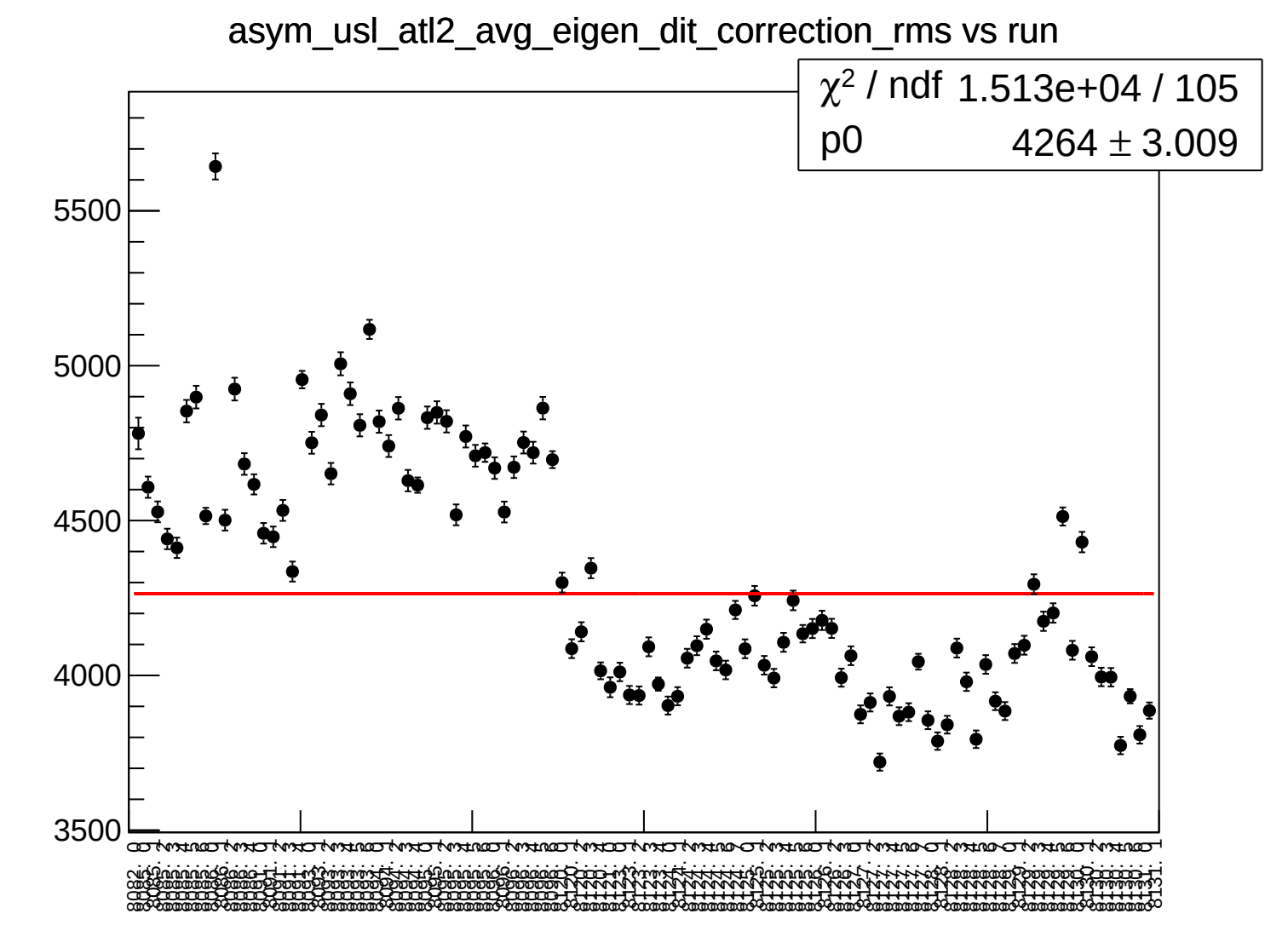

eigen_dit_asym_usl_atl2_avg_mean vs run
χ² / ndf 103.4 / 104
p0 −2795 ± 1350
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean 283.3
Std Dev 0
2
1
0
−1
−2

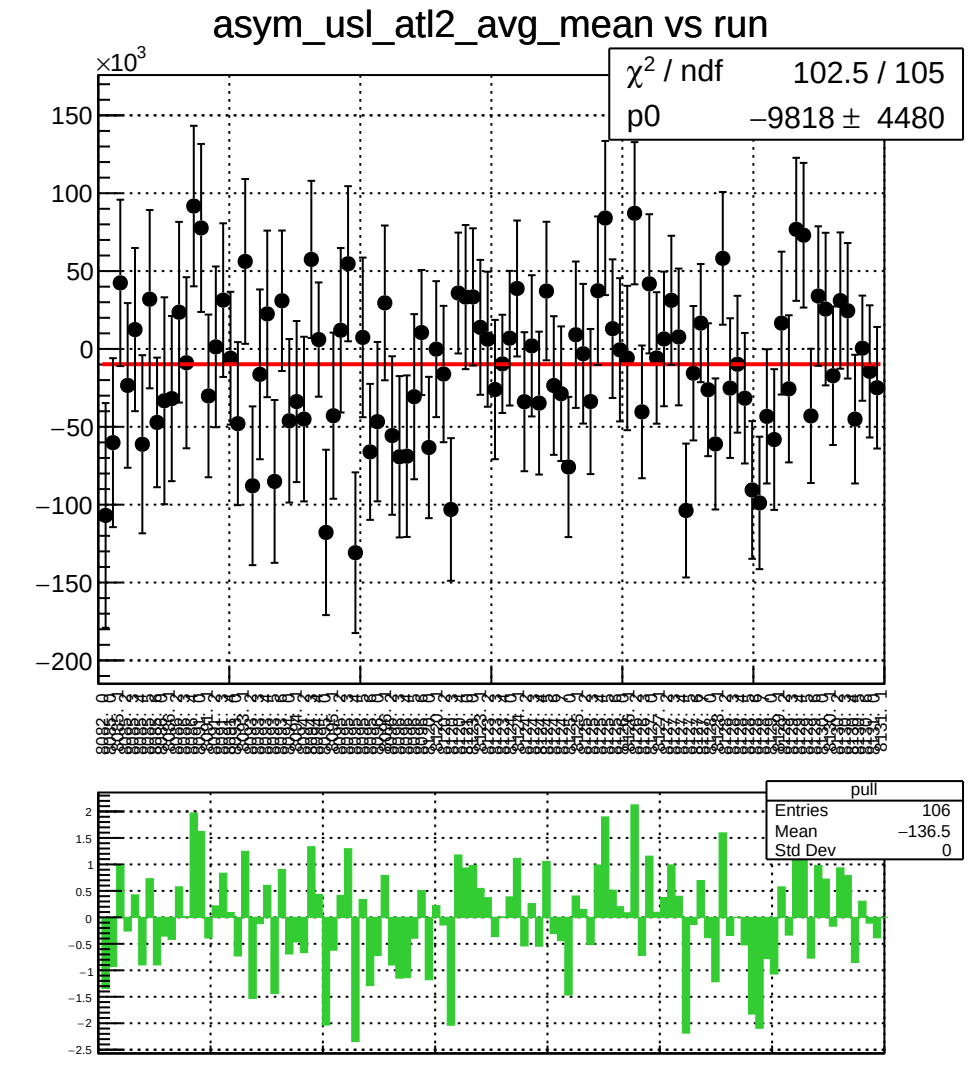

pull1D
Entries 105
Mean −0.005623
Std Dev 0.9924
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

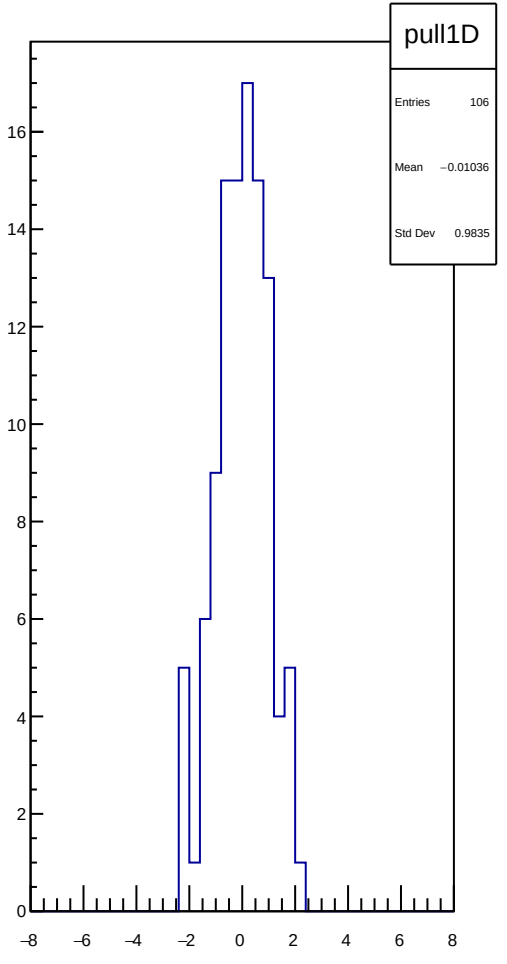

eigen_dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 1575 / 104
p0 1355 ± 0.9549
1500
1450
1400
1350
1300

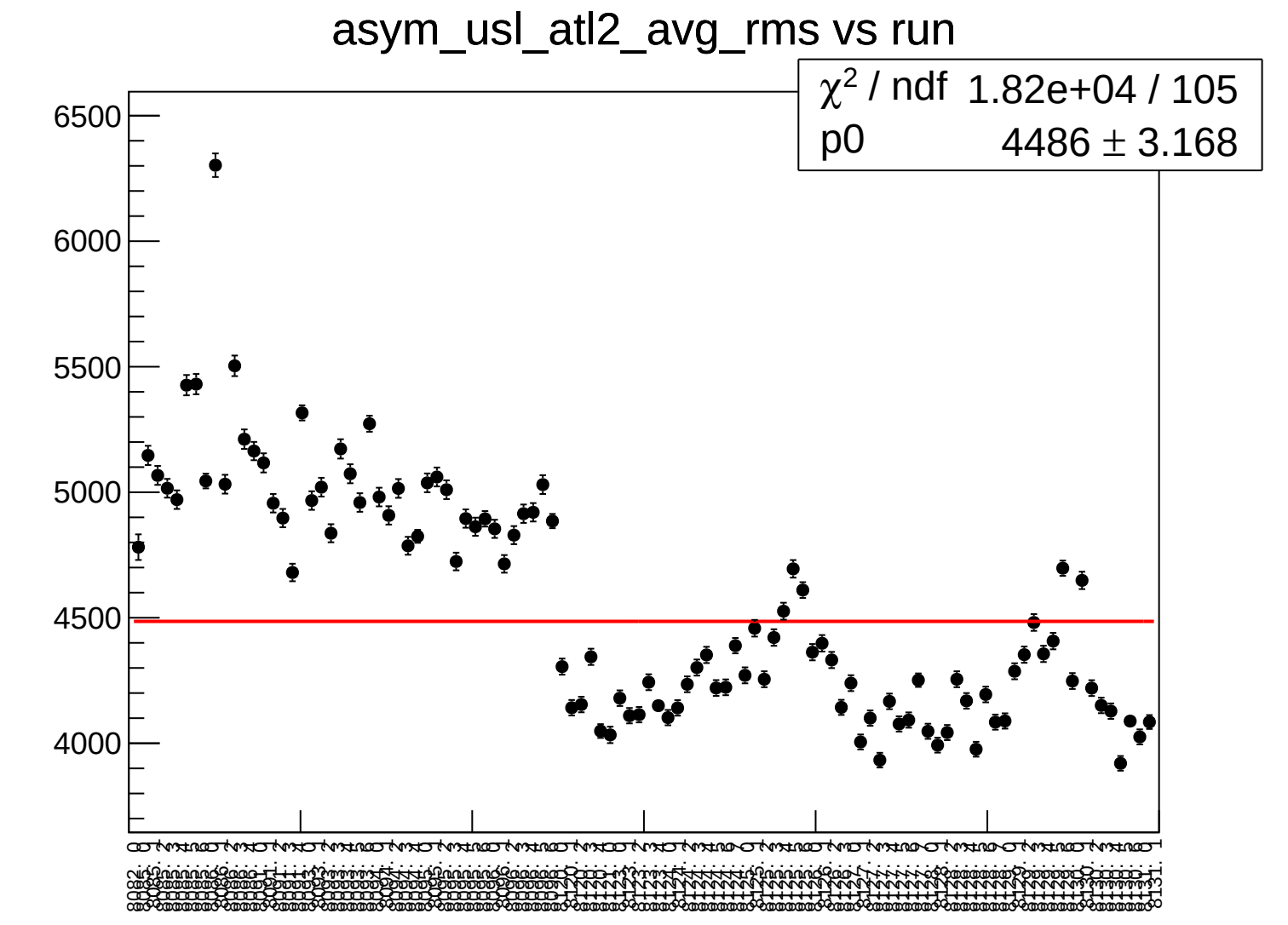

asym_usl_atl2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 97.09 / 105
p0 6699 ± 4256
200
150
100
50
0
−50
−100
−150
pull
Entries 106
Mean −141.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

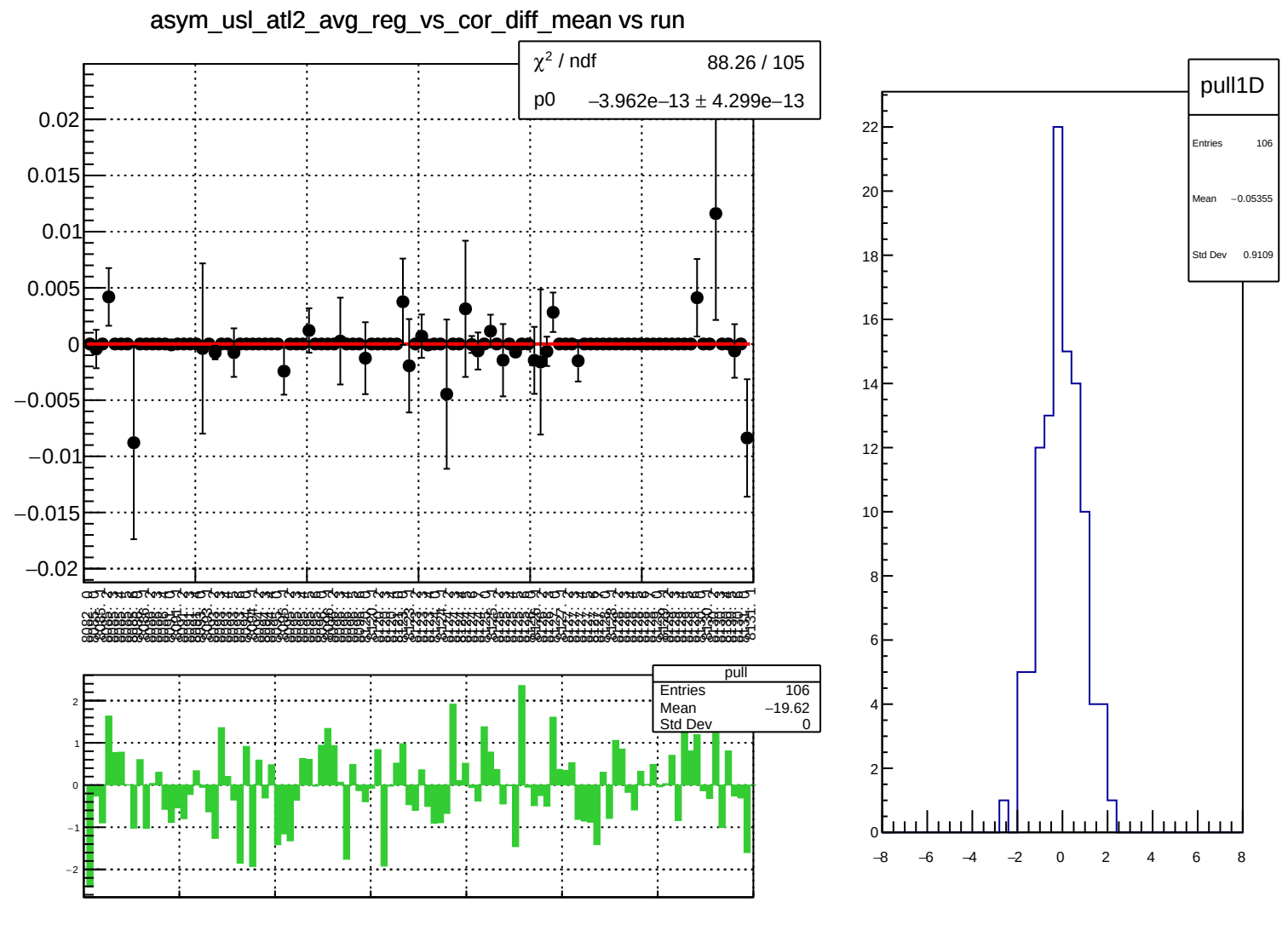

pull1D
Entries 106
Mean 0.01267
Std Dev 0.957
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

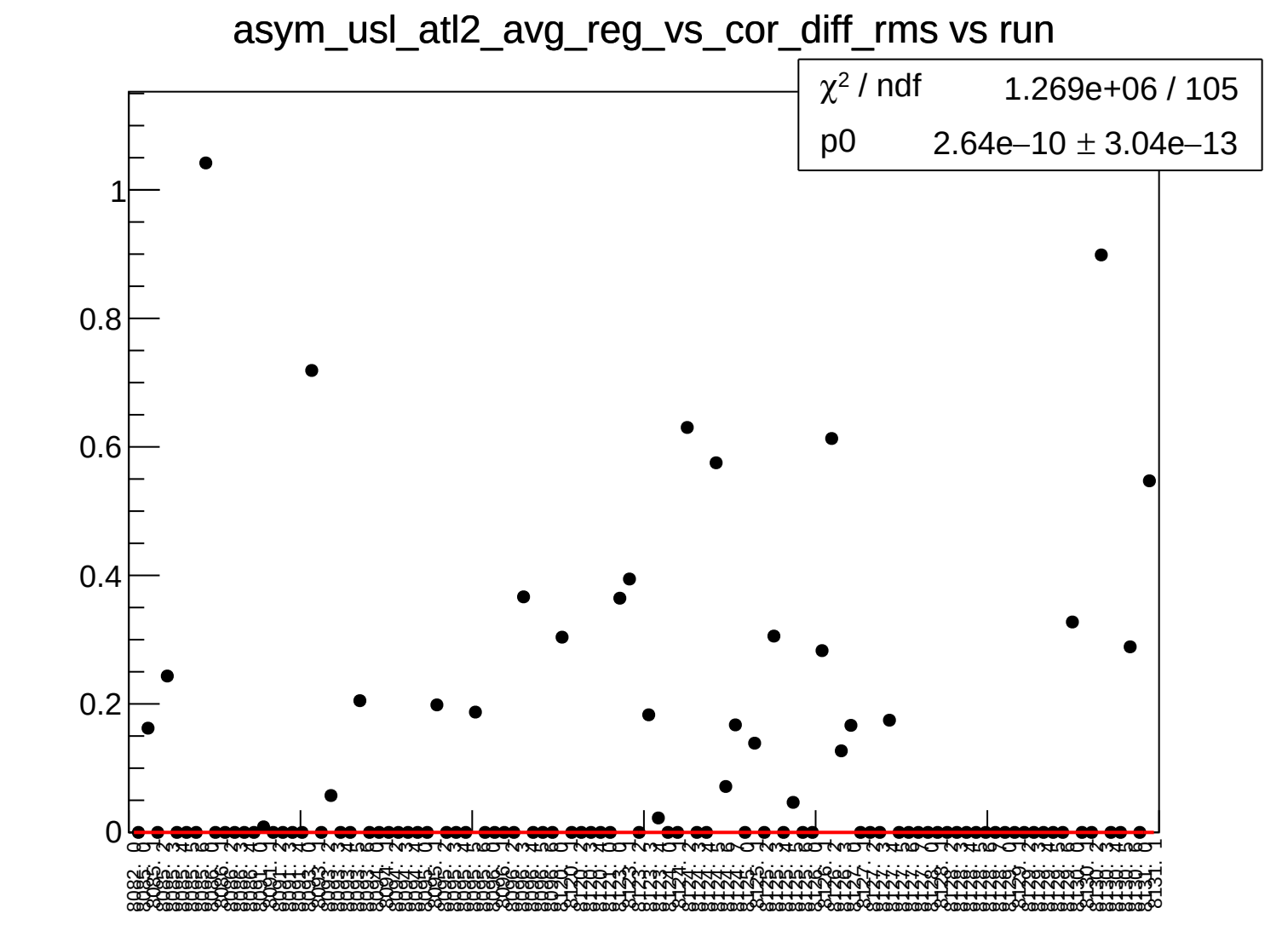

asym_usl_atl2_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.513e+04 / 105
p0 4264 ± 3.009
5500
5000
4500
4000
3500

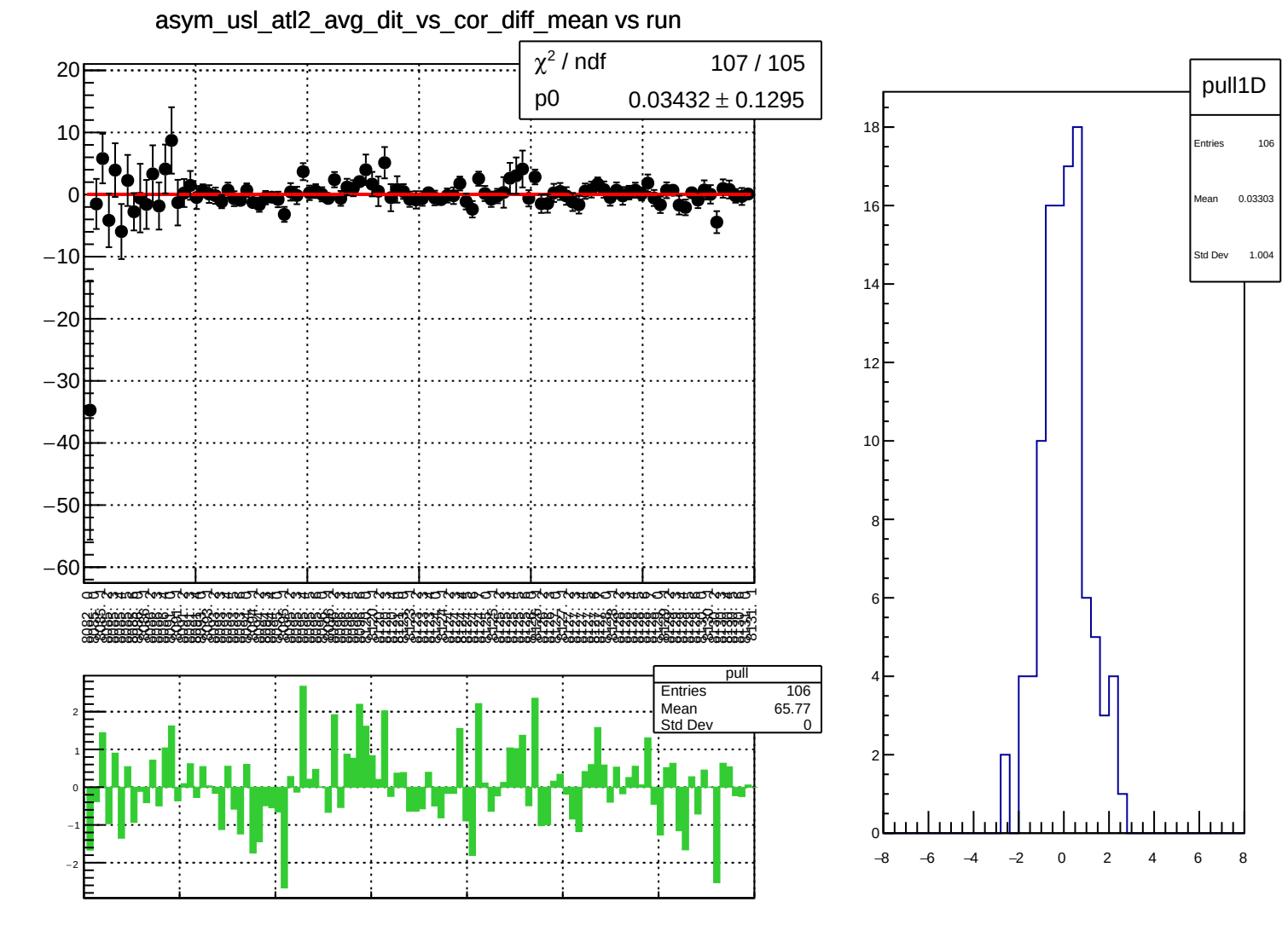

asym_usl_atl2_avg_mean vs run
×10^3
χ^2 / ndf 102.5 / 105
p0 −9818 ± 4480
150
100
50
0
−50
−100
−150
−200
pull
Entries 106
Mean −136.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

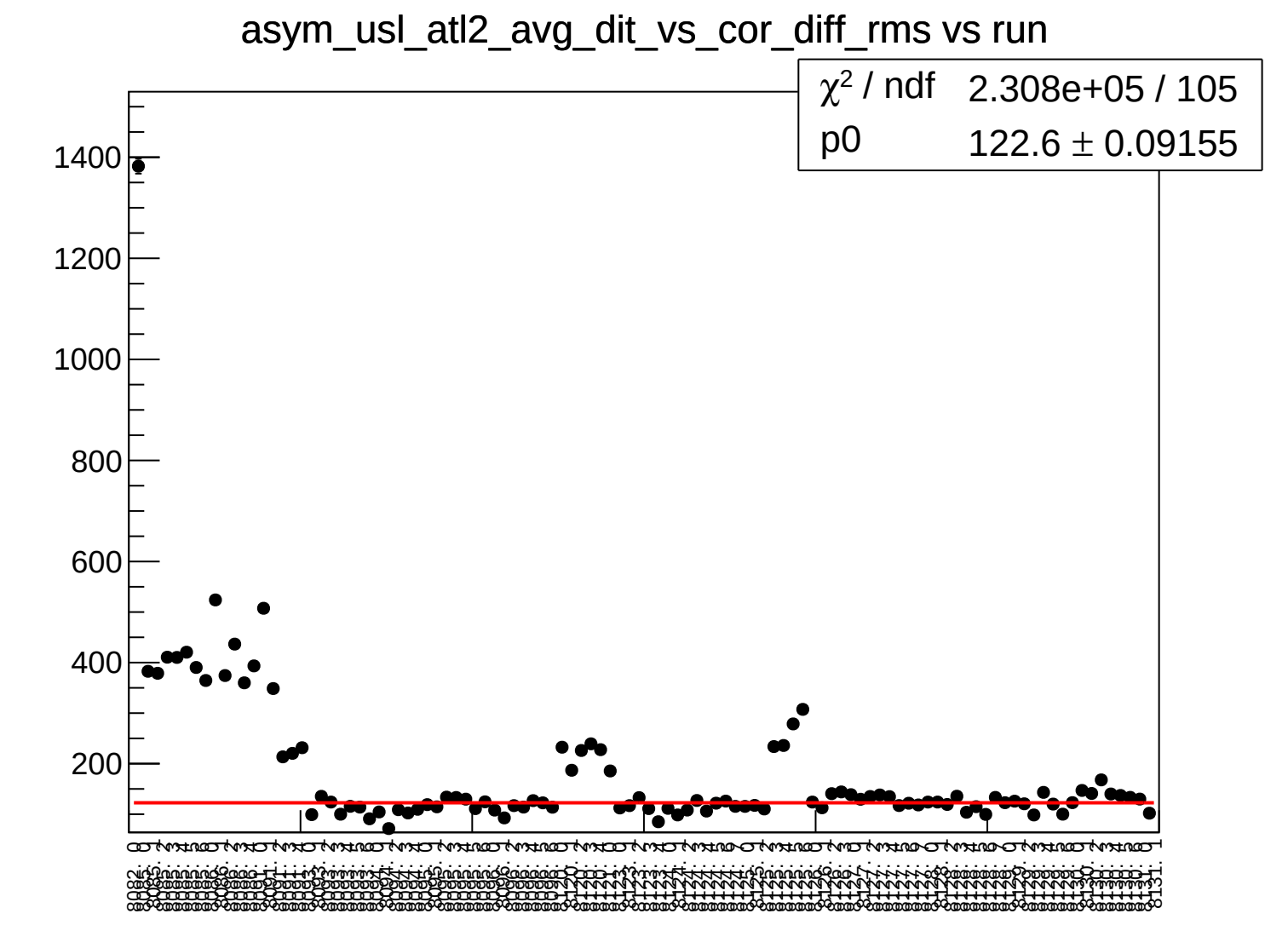

pull1D
Entries 106
Mean −0.01036
Std Dev 0.9835
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

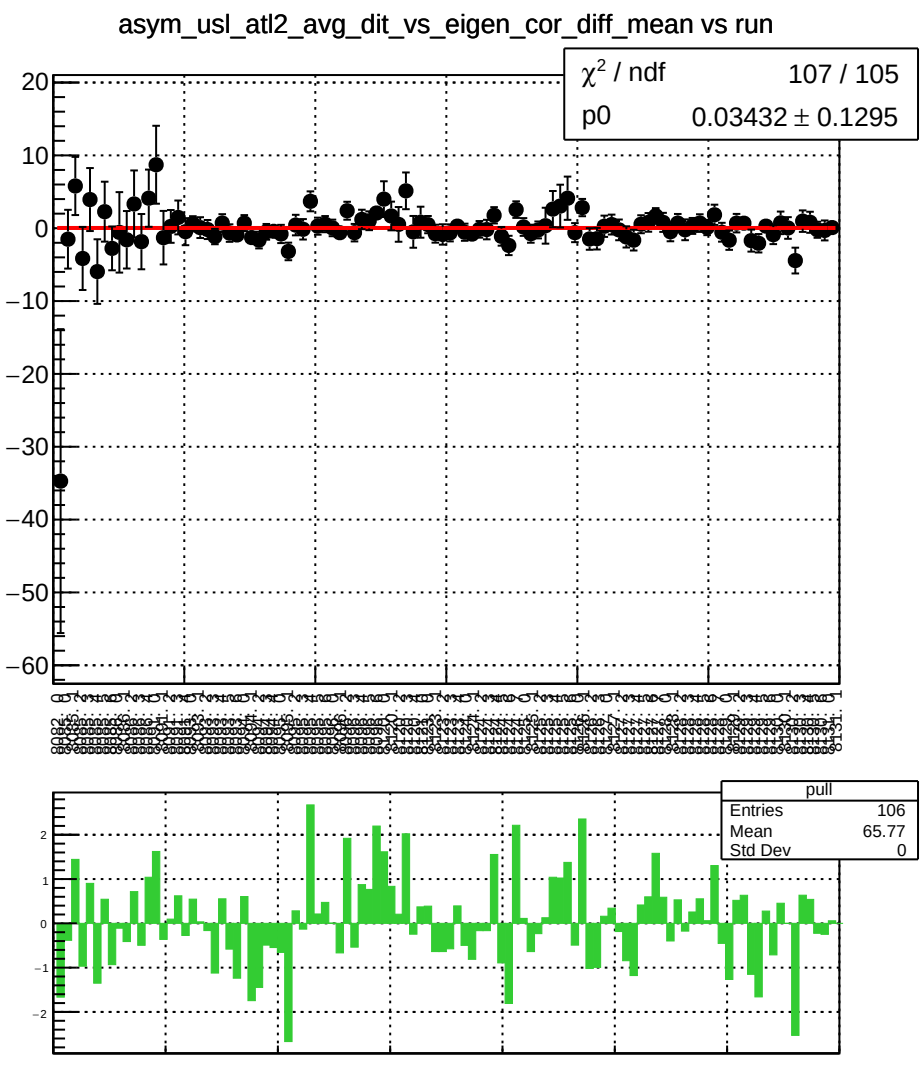

asym_usl_atl2_avg_rms vs run
χ² / ndf 1.82e+04 / 105
p0 4486 ± 3.168
6500
6000
5500
5000
4500
4000

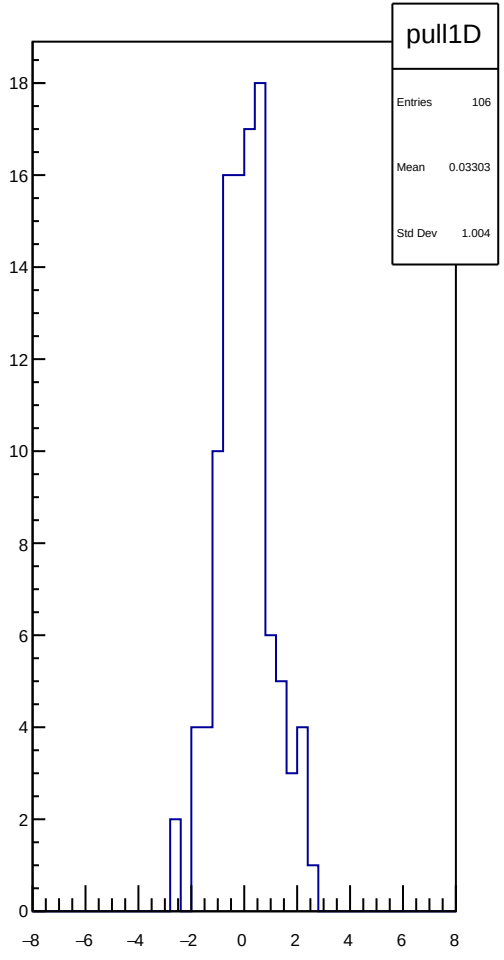

asym_usl_atl2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 88.26 / 105
p0 −3.962e−13 ± 4.299e−13
pull
Entries 106
Mean −19.62
Std Dev 0
pull1D
Entries 106
Mean −0.05355
Std Dev 0.9109

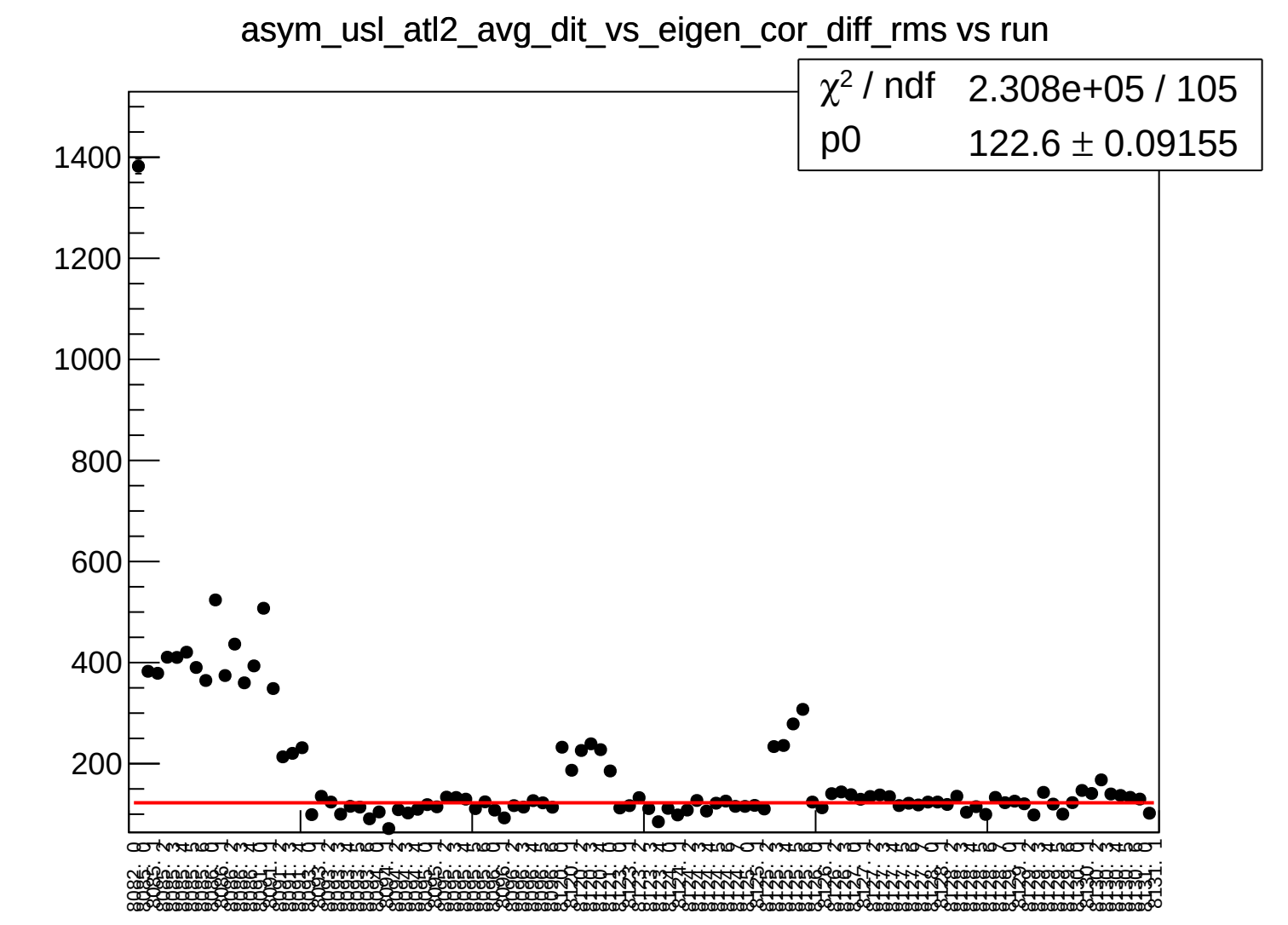

asym_usl_atl2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.269e+06 / 105
p0 2.64e−10 ± 3.04e−13
1
0.8
0.6
0.4
0.2
0

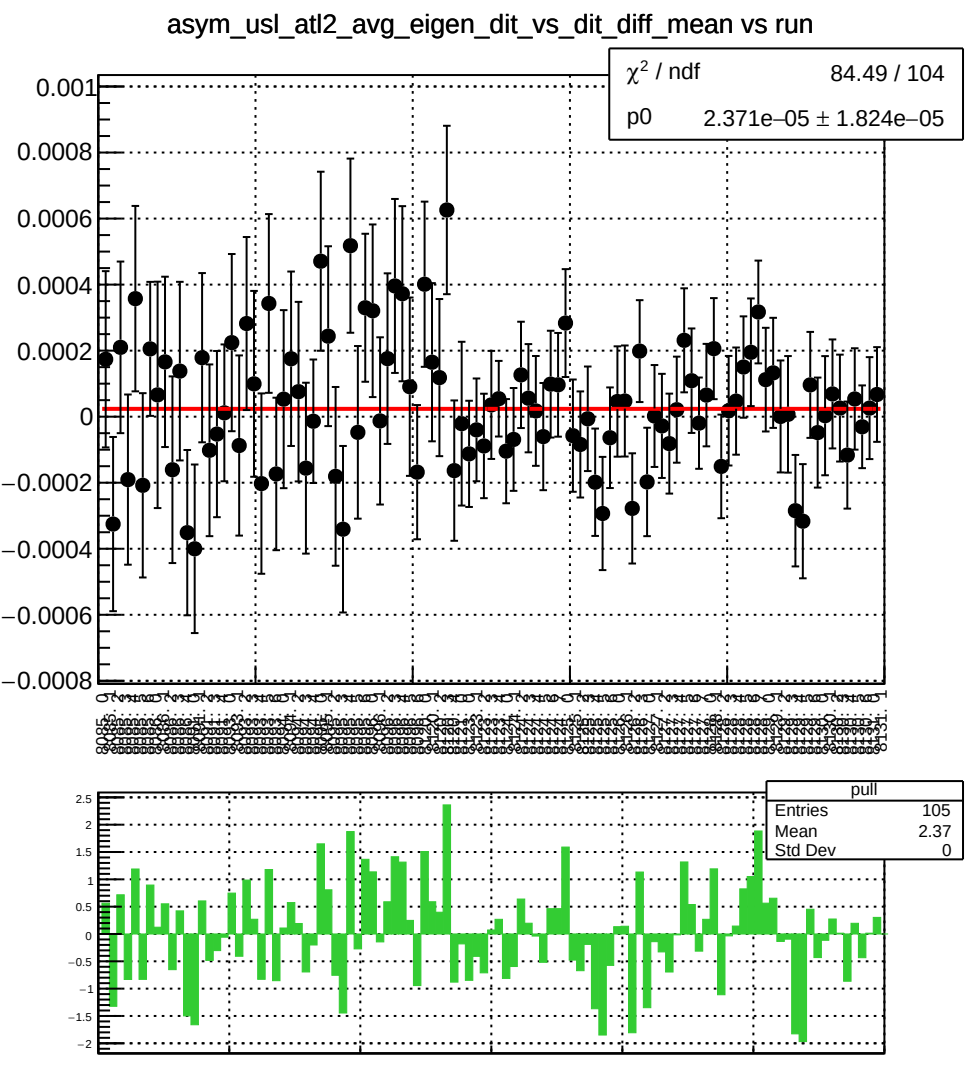

asym_usl_atl2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 107 / 105
p0 0.03432 ± 0.1295
pull
Entries 106
Mean 65.77
Std Dev 0
pull1D
Entries 106
Mean 0.03303
Std Dev 1.004

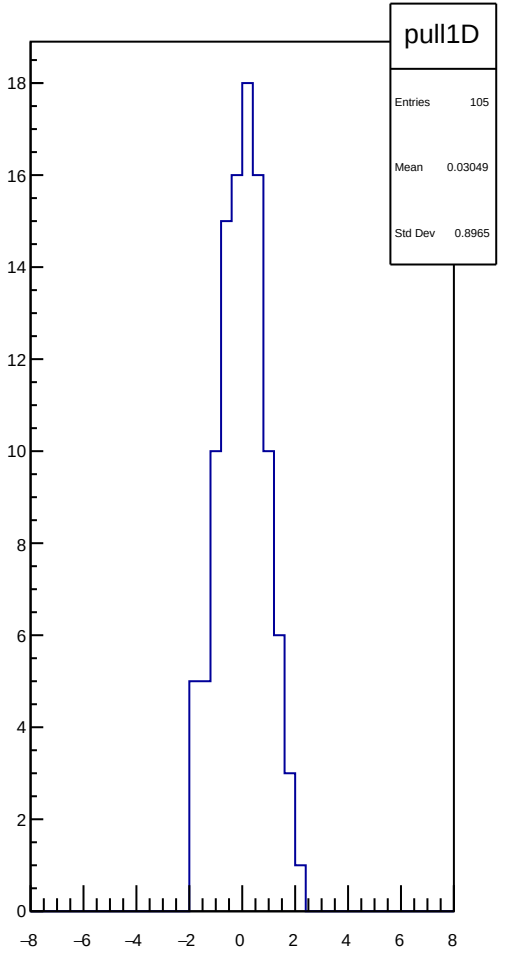

asym_usl_atl2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.308e+05 / 105
p0 122.6 ± 0.09155
1400
1200
1000
800
600
400
200

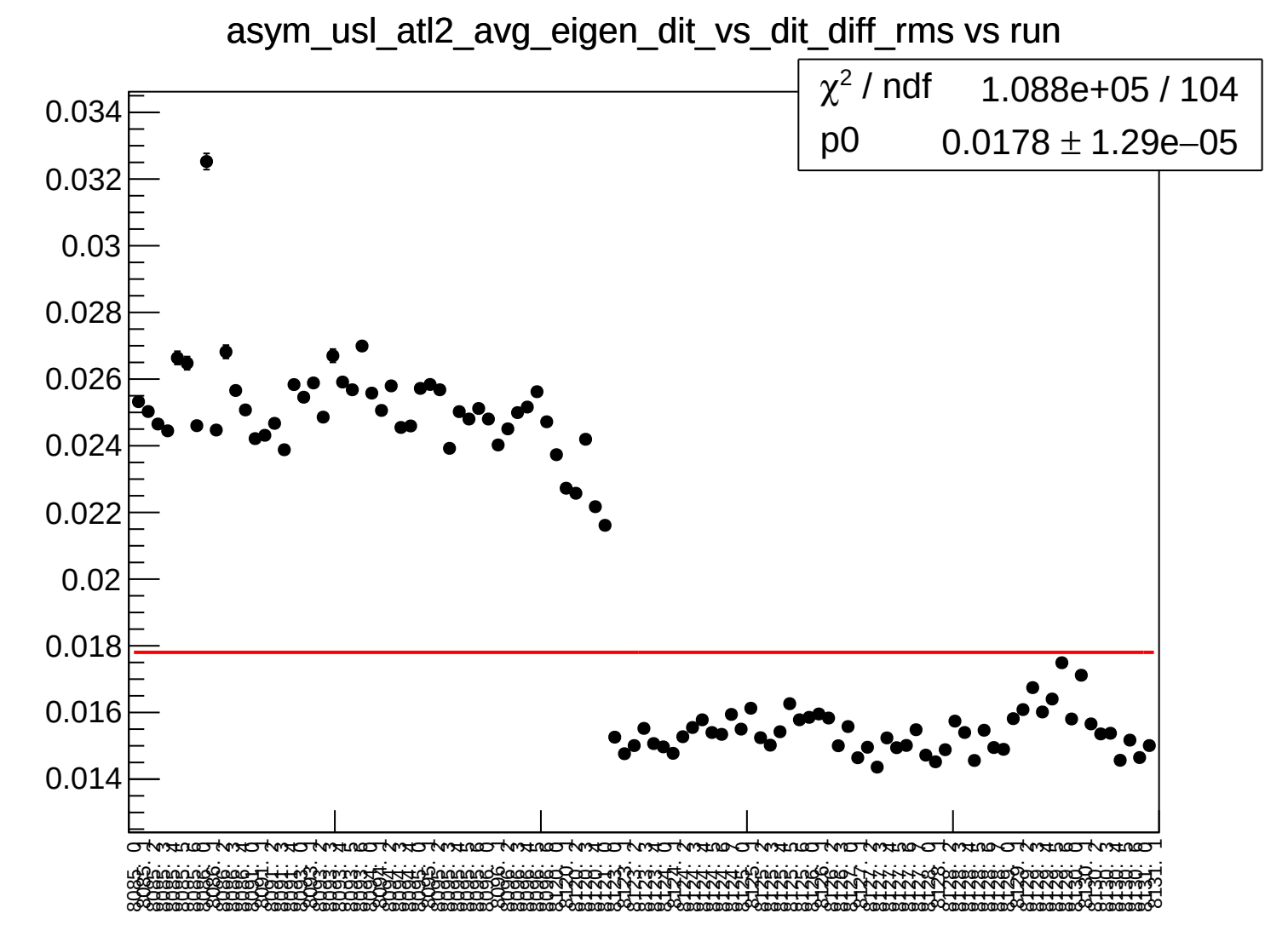

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107 / 105
p0 0.03432 ± 0.1295
pull
Entries 106
Mean 65.77
Std Dev 0

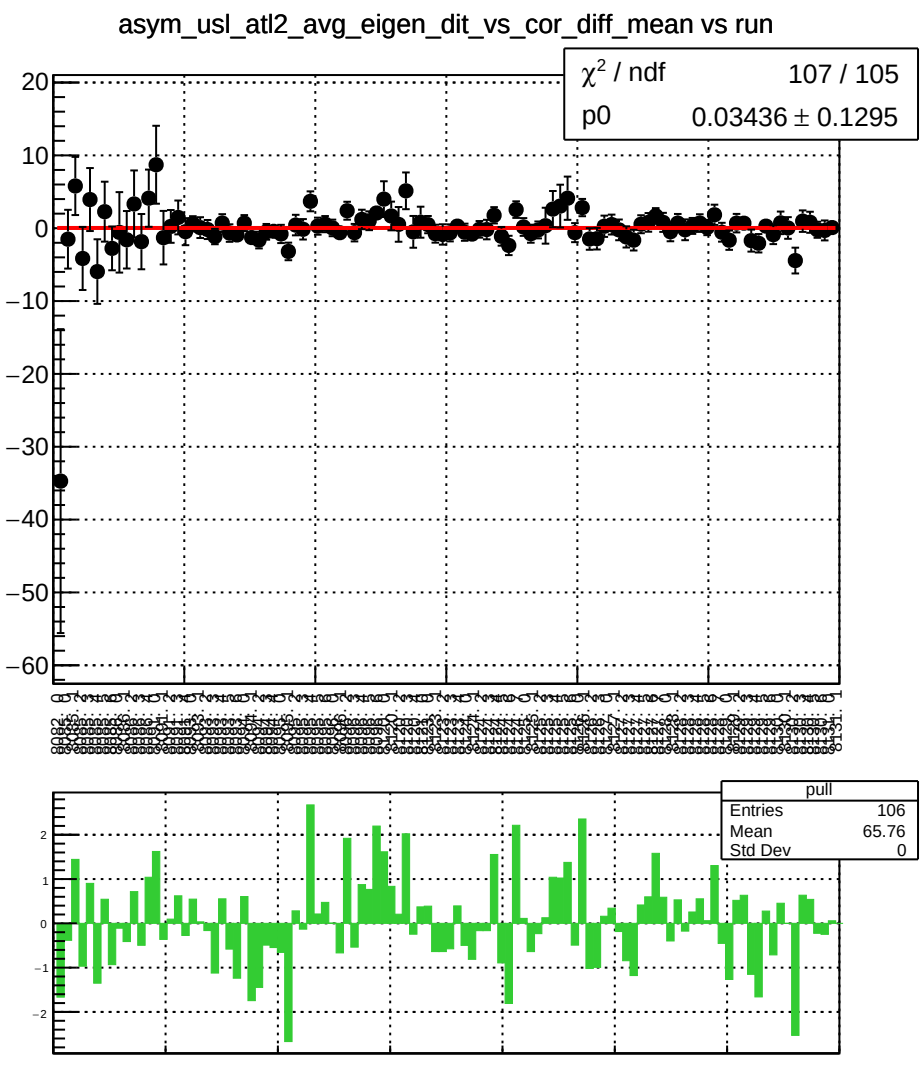

pull1D
Entries 106
Mean 0.03303
Std Dev 1.004

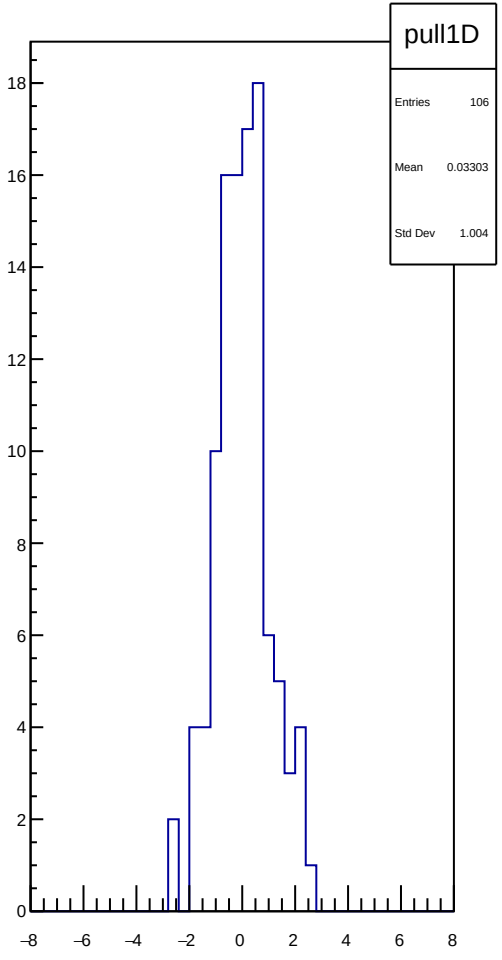

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.308e+05 / 105
p0 122.6 ± 0.09155
1400
1200
1000
800
600
400
200

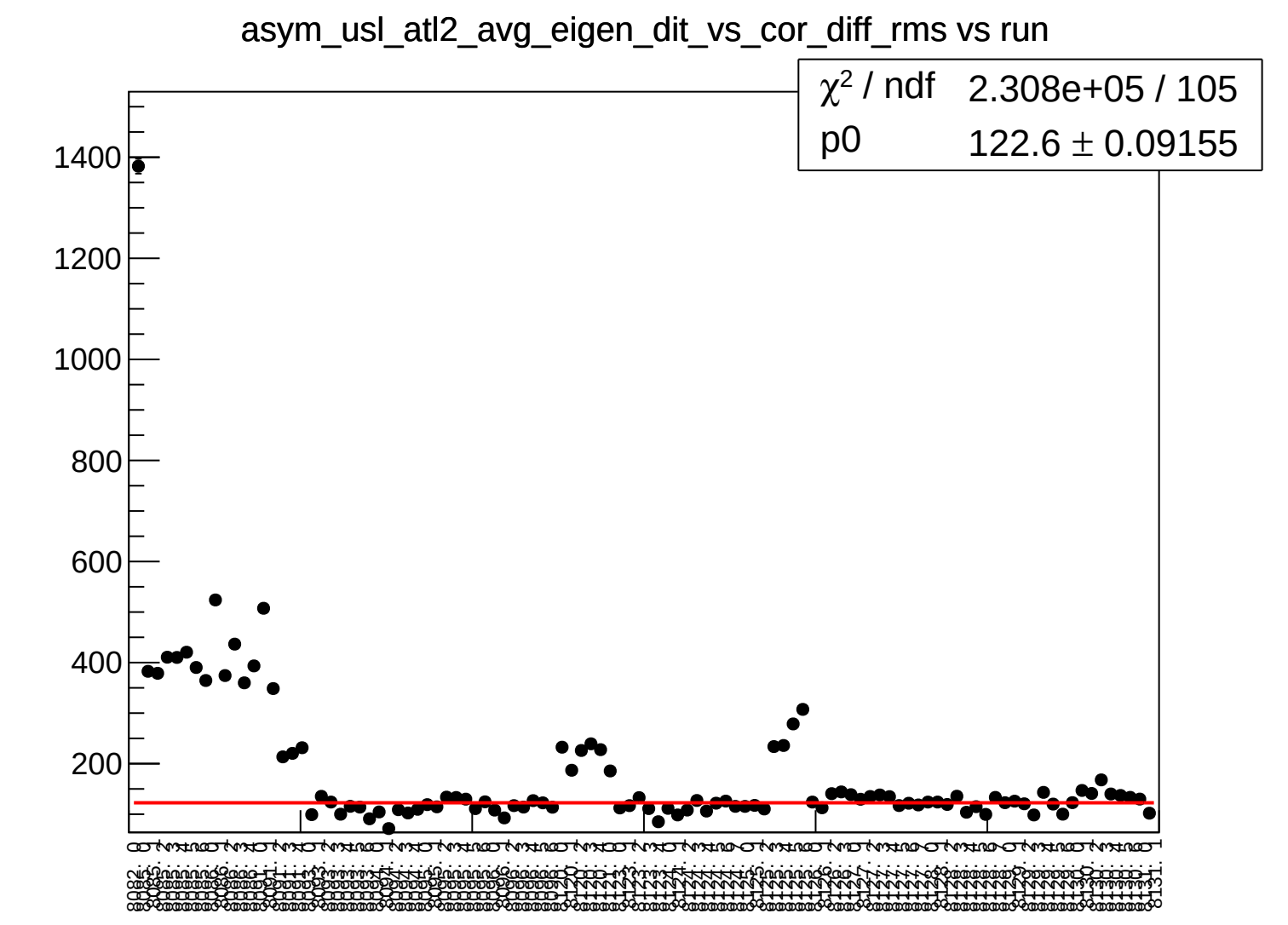

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 84.49 / 104
p0 2.371e−05 ± 1.824e−05
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
pull
Entries 105
Mean 2.37
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

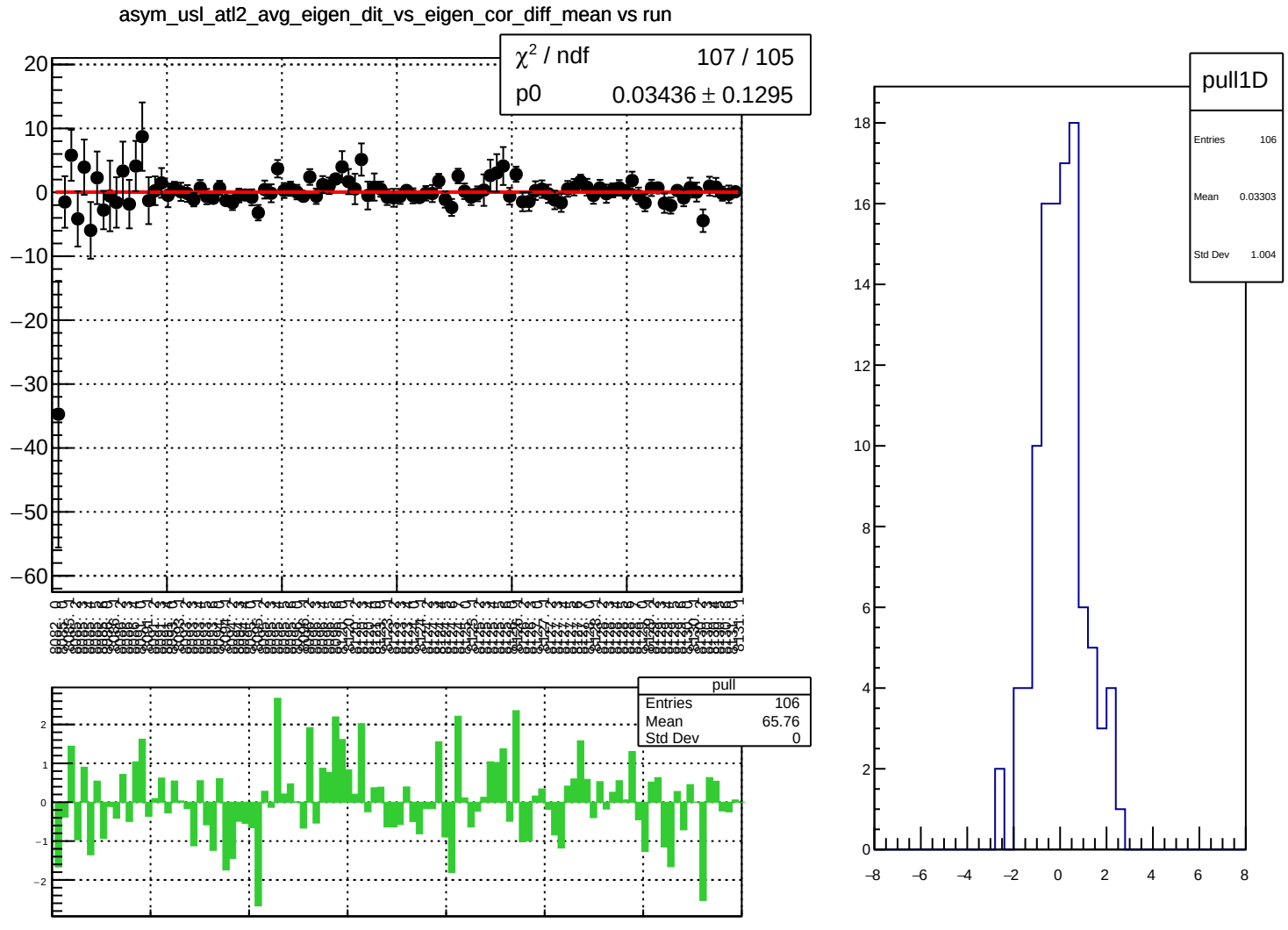

pull1D
Entries 105
Mean 0.03049
Std Dev 0.8965
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

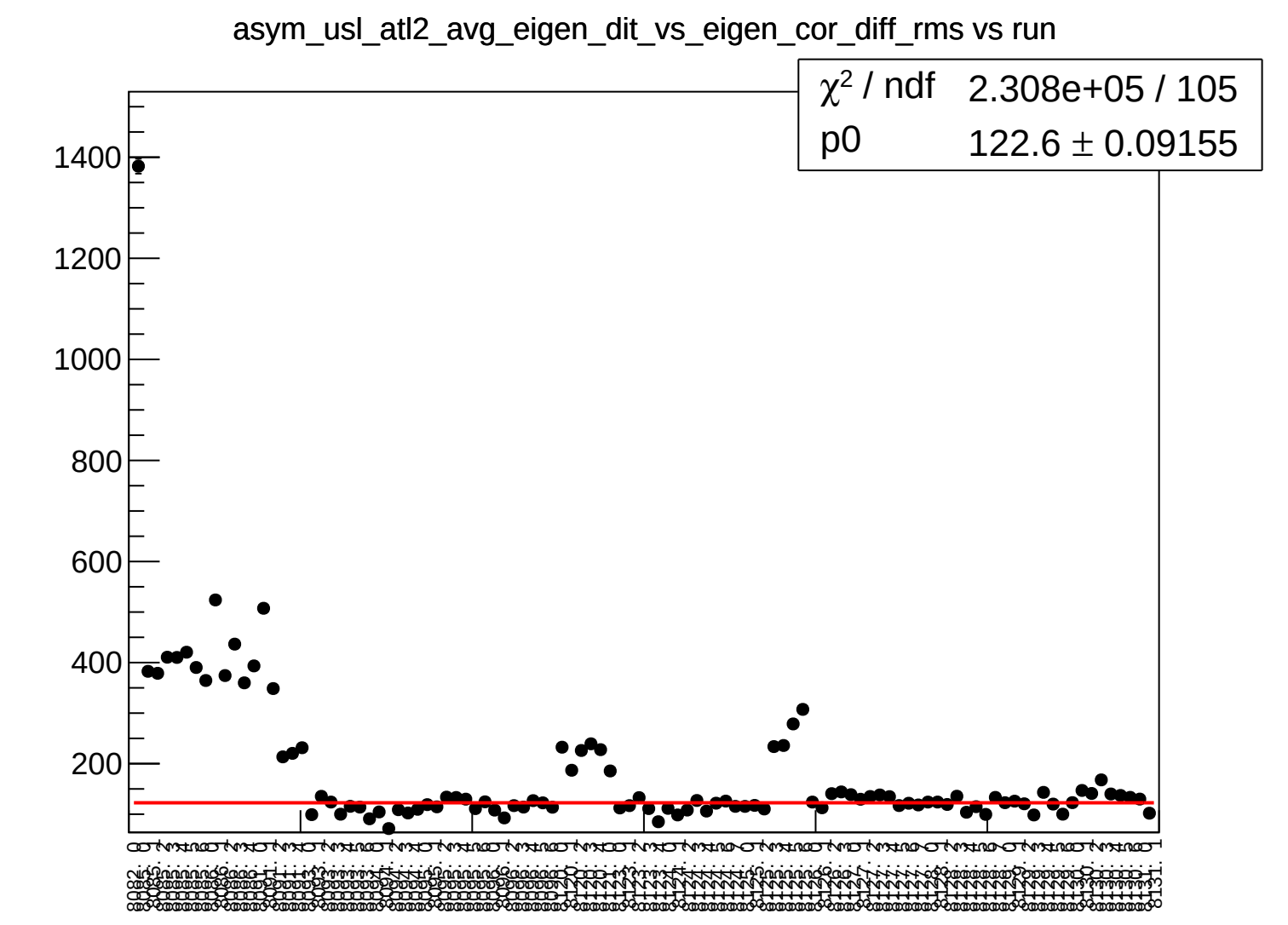

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.088e+05 / 104
p0 0.0178 ± 1.29e−05
0.034
0.032
0.03
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014

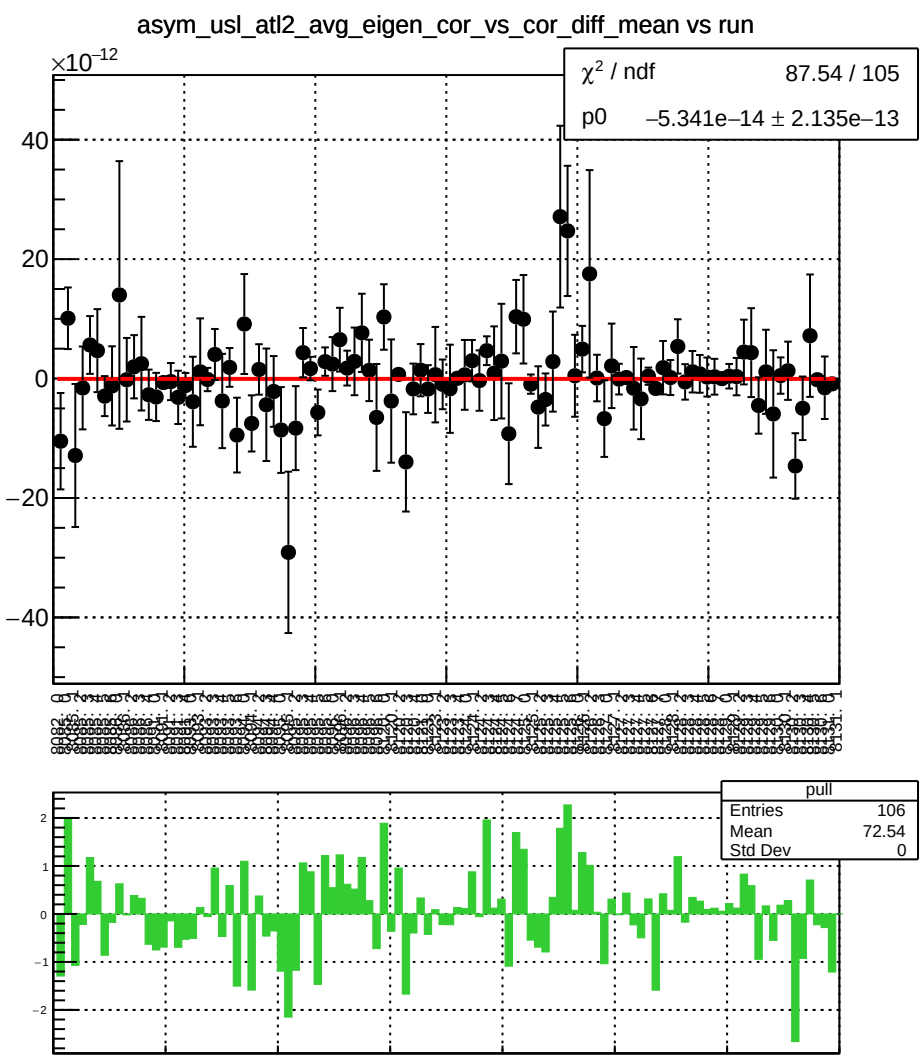

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 107 / 105
p0 0.03436 ± 0.1295
pull
Entries 106
Mean 65.76
Std Dev 0

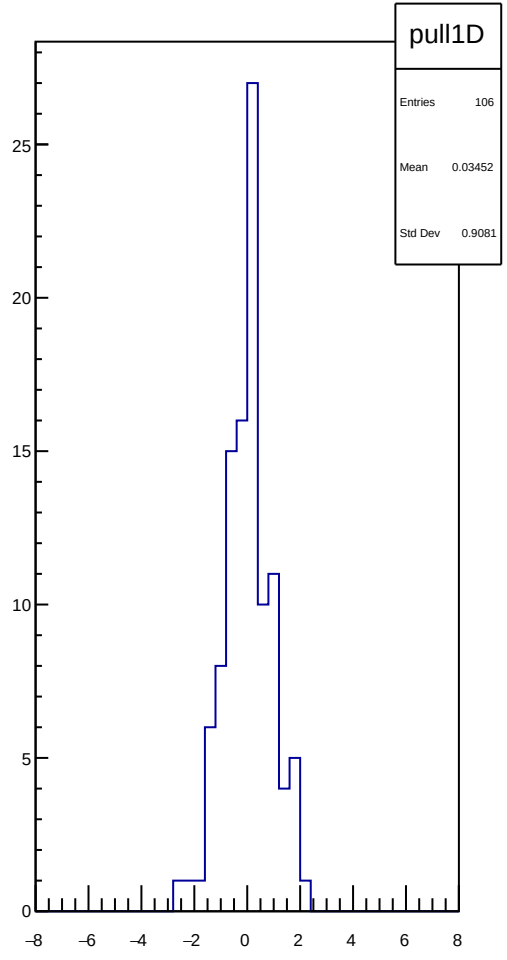

pull1D
Entries 106
Mean 0.03303
Std Dev 1.004

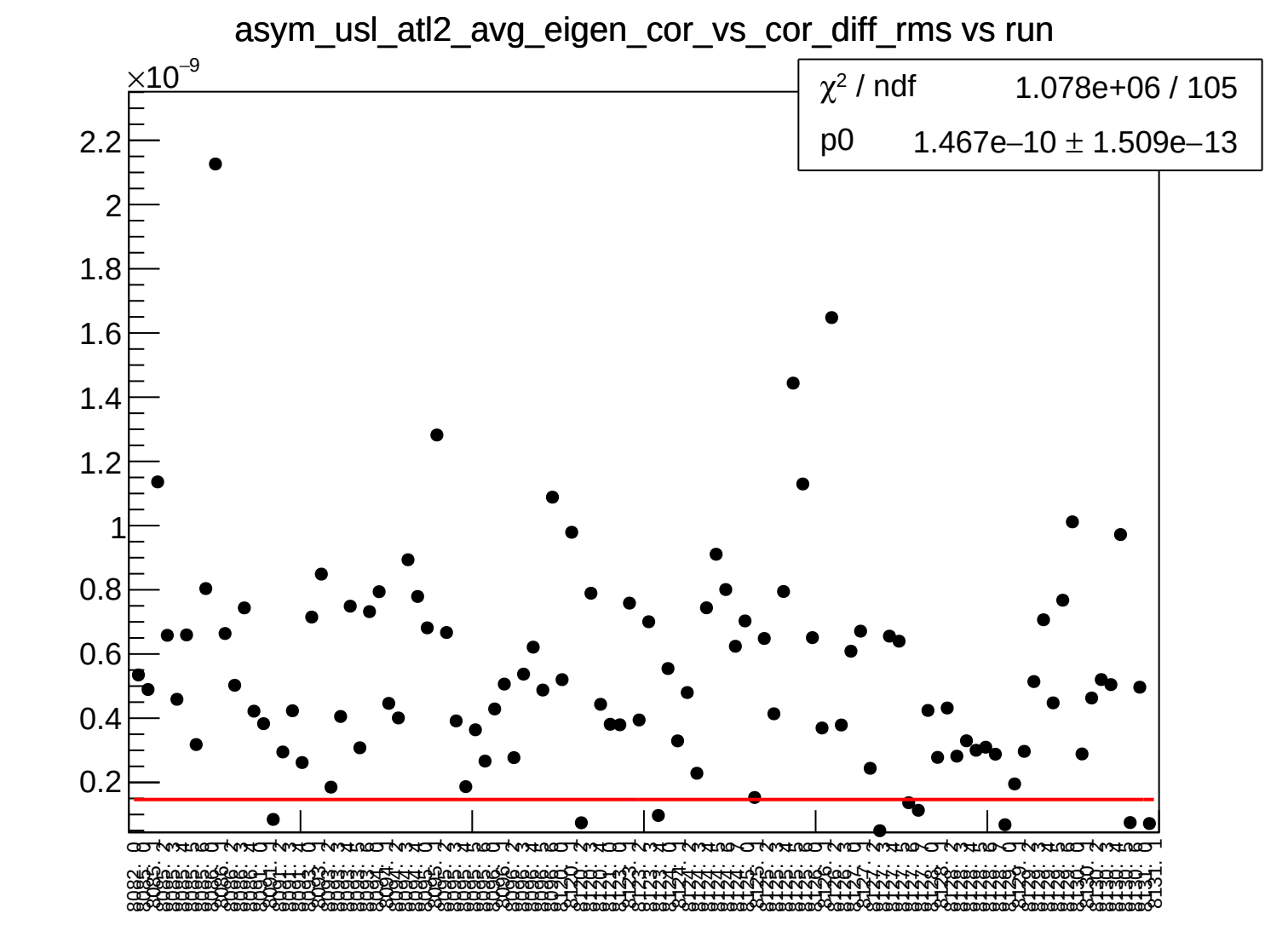

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.308e+05 / 105
p0 122.6 ± 0.09155
1400
1200
1000
800
600
400
200

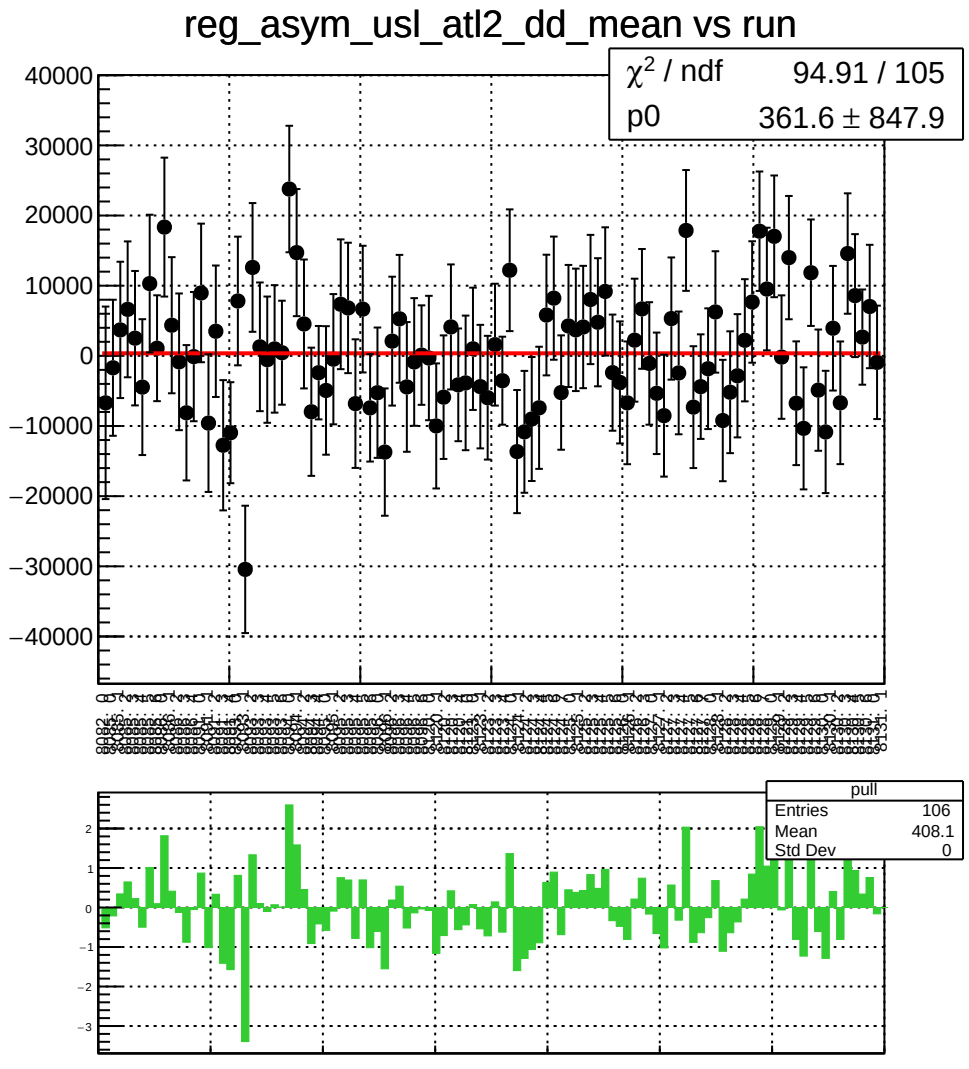

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107 / 105
p0 0.03436 ± 0.1295
pull
Entries 106
Mean 65.76
Std Dev 0
pull1D
Entries 106
Mean 0.03303
Std Dev 1.004

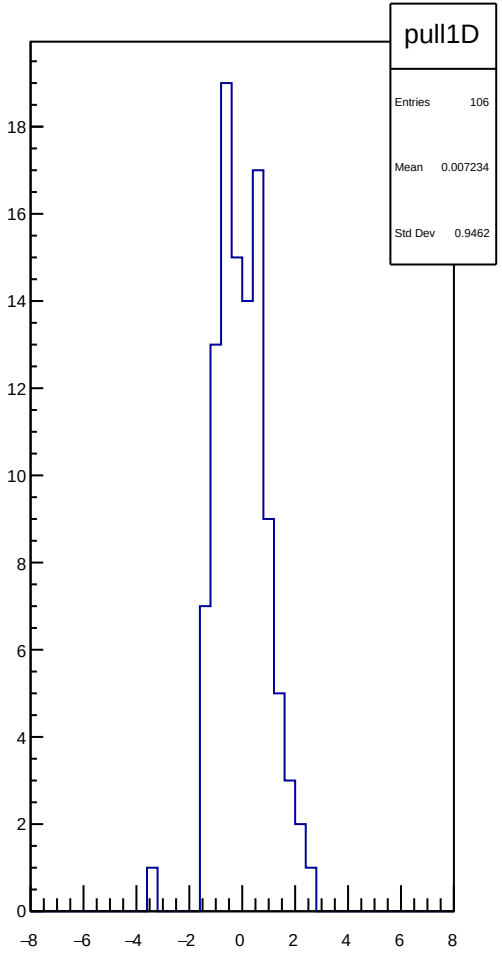

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.308e+05 / 105
p0 122.6 ± 0.09155
1400
1200
1000
800
600
400
200

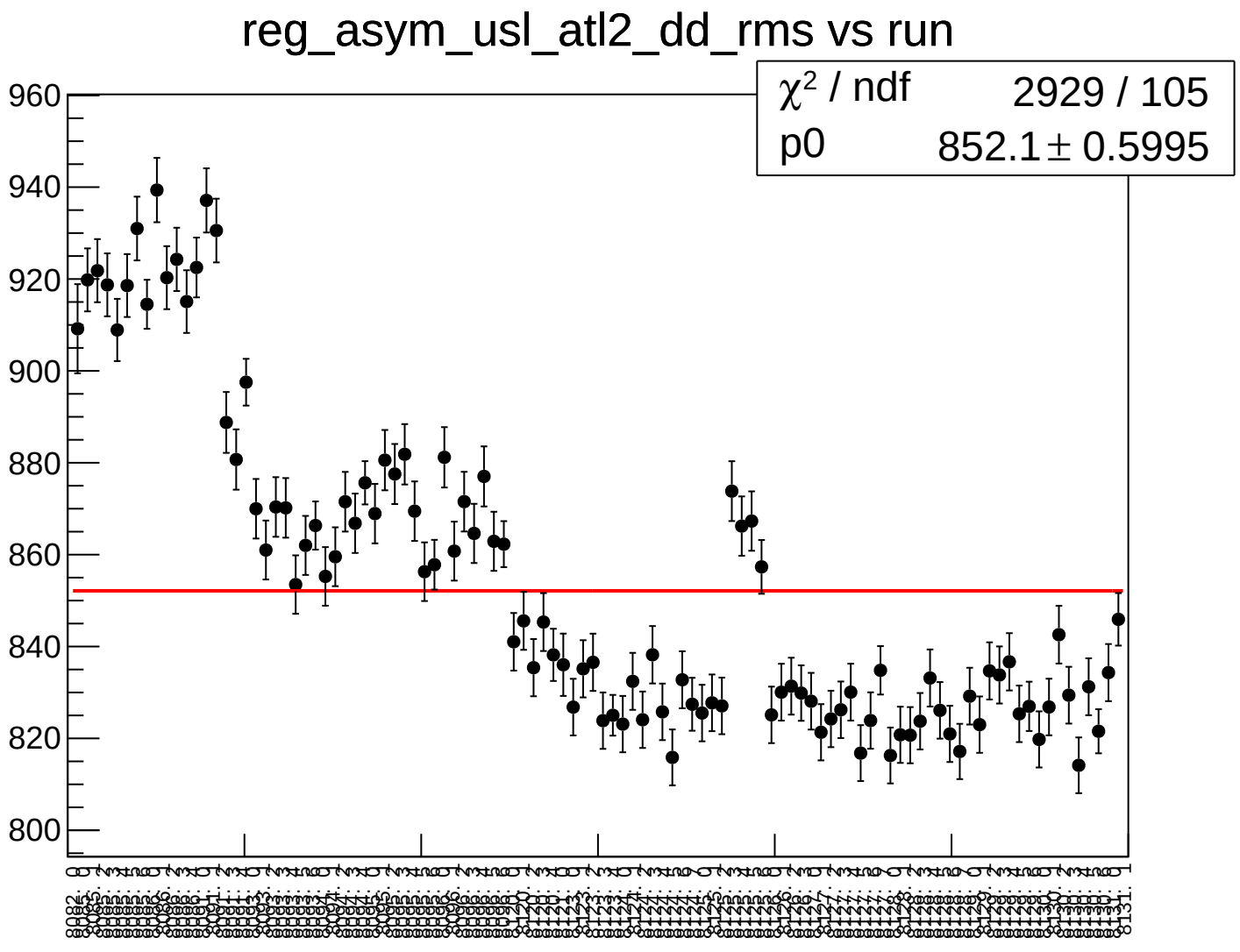

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.54 / 105
p0 −5.341e−14 ± 2.135e−13
40
20
0
−20
−40
pull
Entries 106
Mean 72.54
Std Dev 0
2
1
0
−1
−2

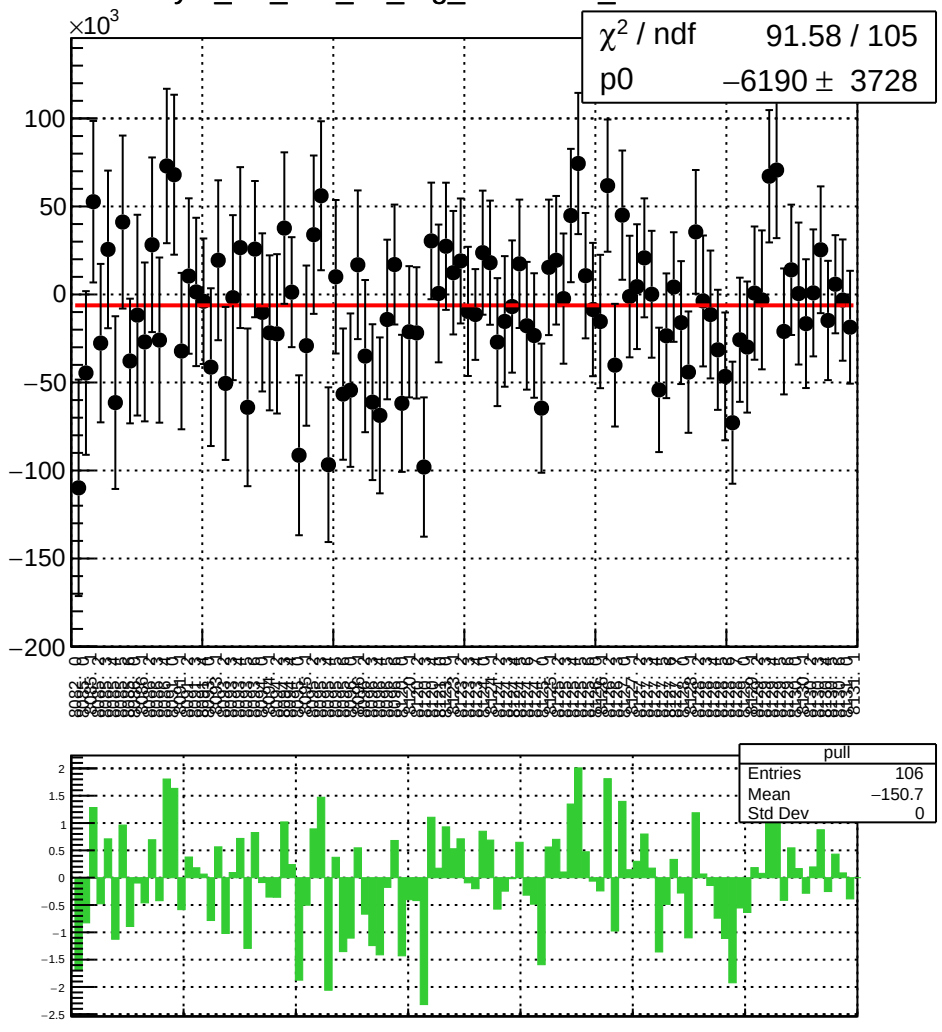

pull1D
Entries 106
Mean 0.03452
Std Dev 0.9081
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

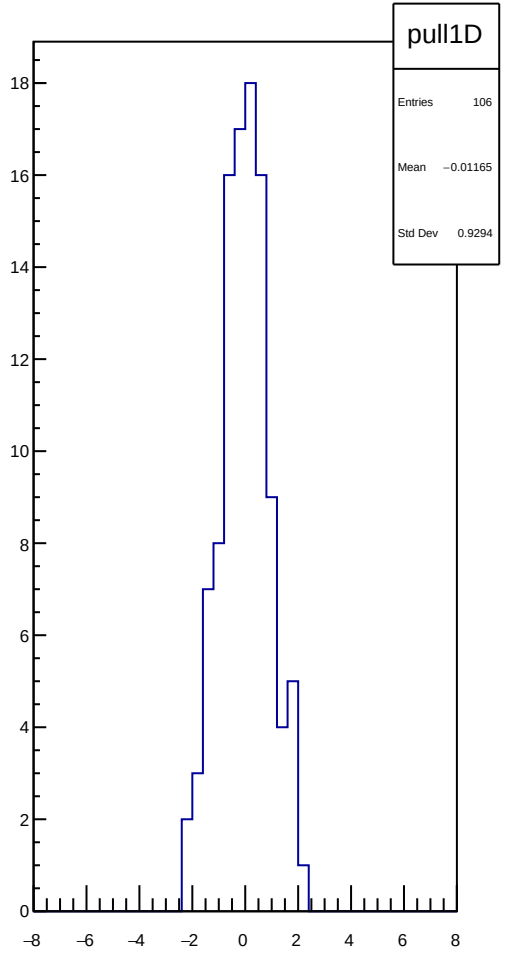

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.078e+06 / 105
p0 1.467e−10 ± 1.509e−13
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

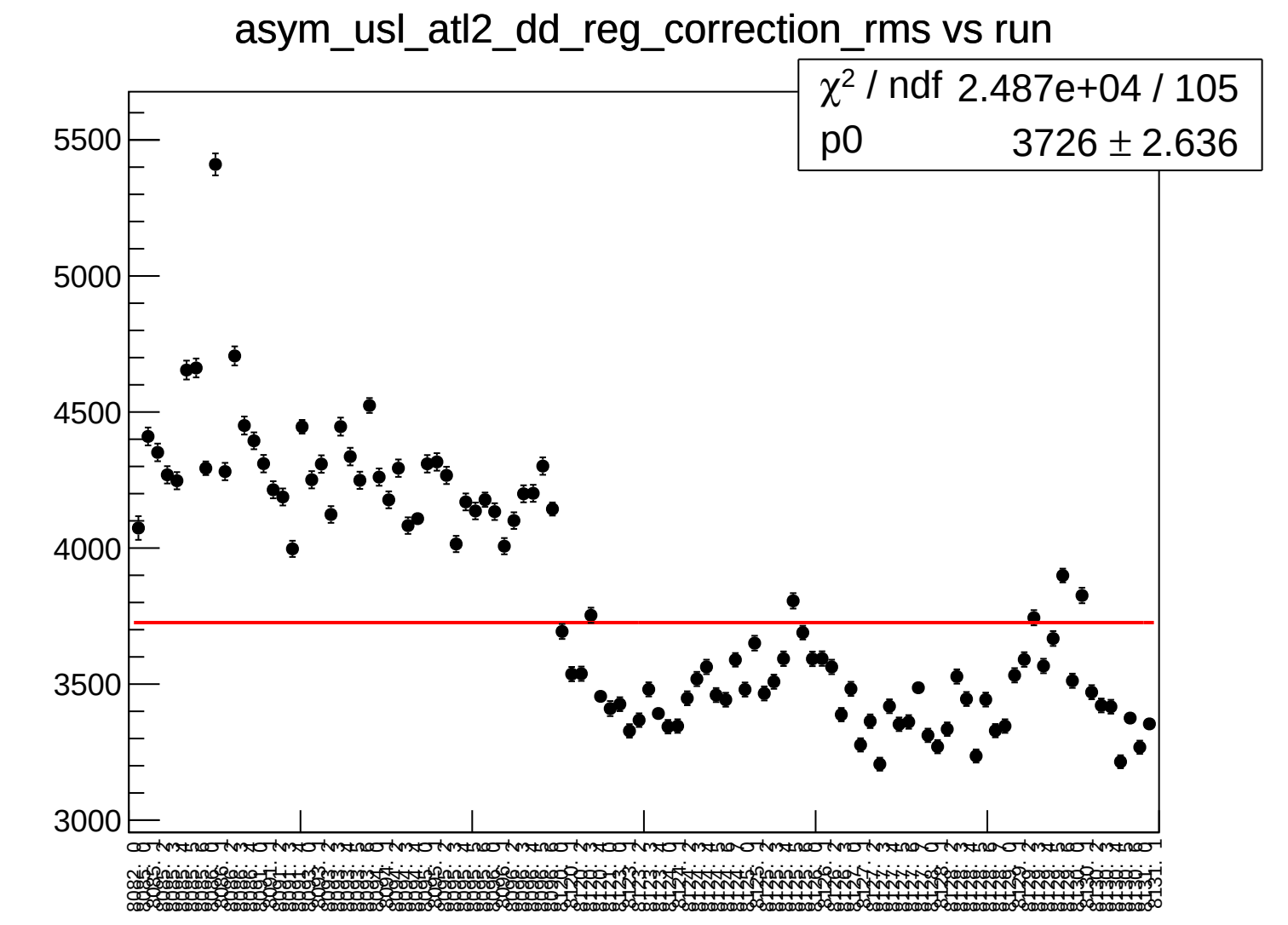

reg_asym_usl_atl2_dd_mean vs run
χ² / ndf 94.91 / 105
p0 361.6 ± 847.9
pull
Entries 106
Mean 408.1
Std Dev 0

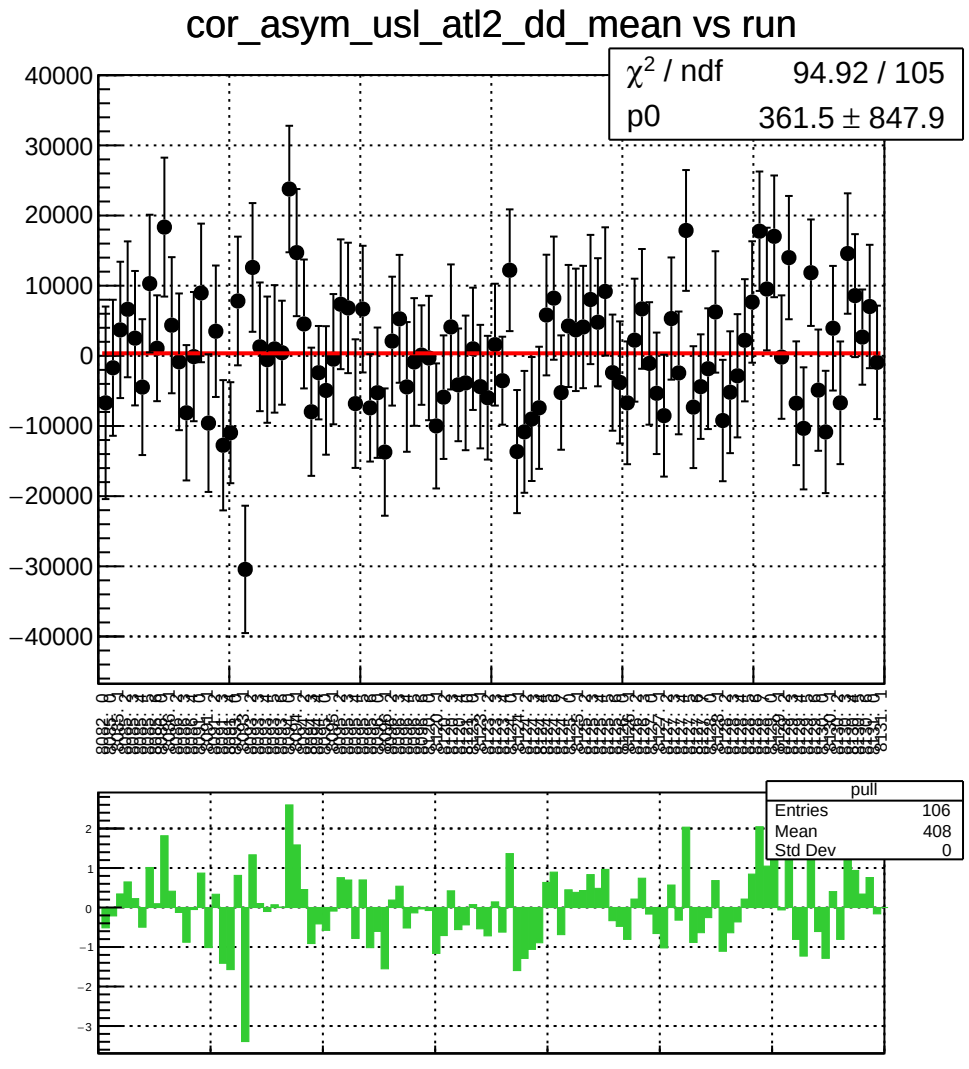

pull1D
Entries 106
Mean 0.007234
Std Dev 0.9462

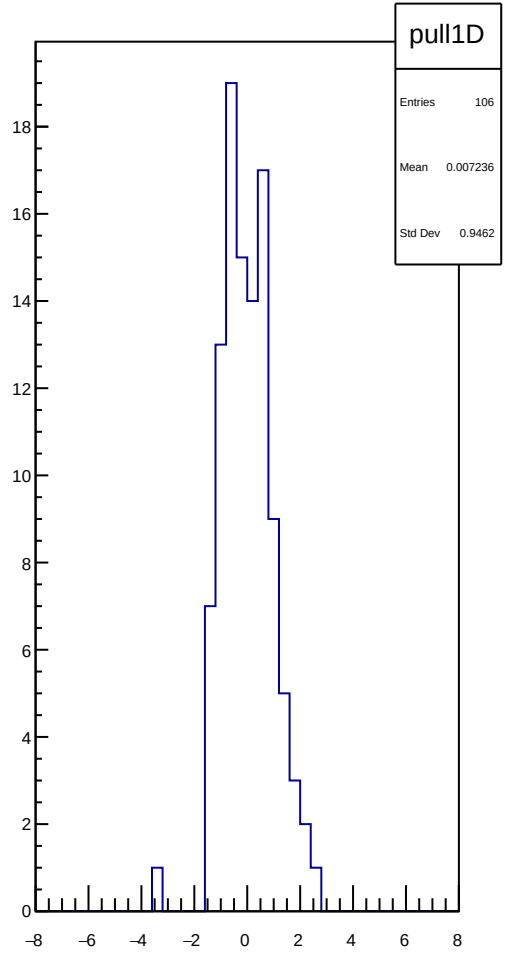

reg_asym_usl_atl2_dd_rms vs run
χ² / ndf 2929 / 105
p0 852.1 ± 0.5995
960
940
920
900
880
860
840
820
800

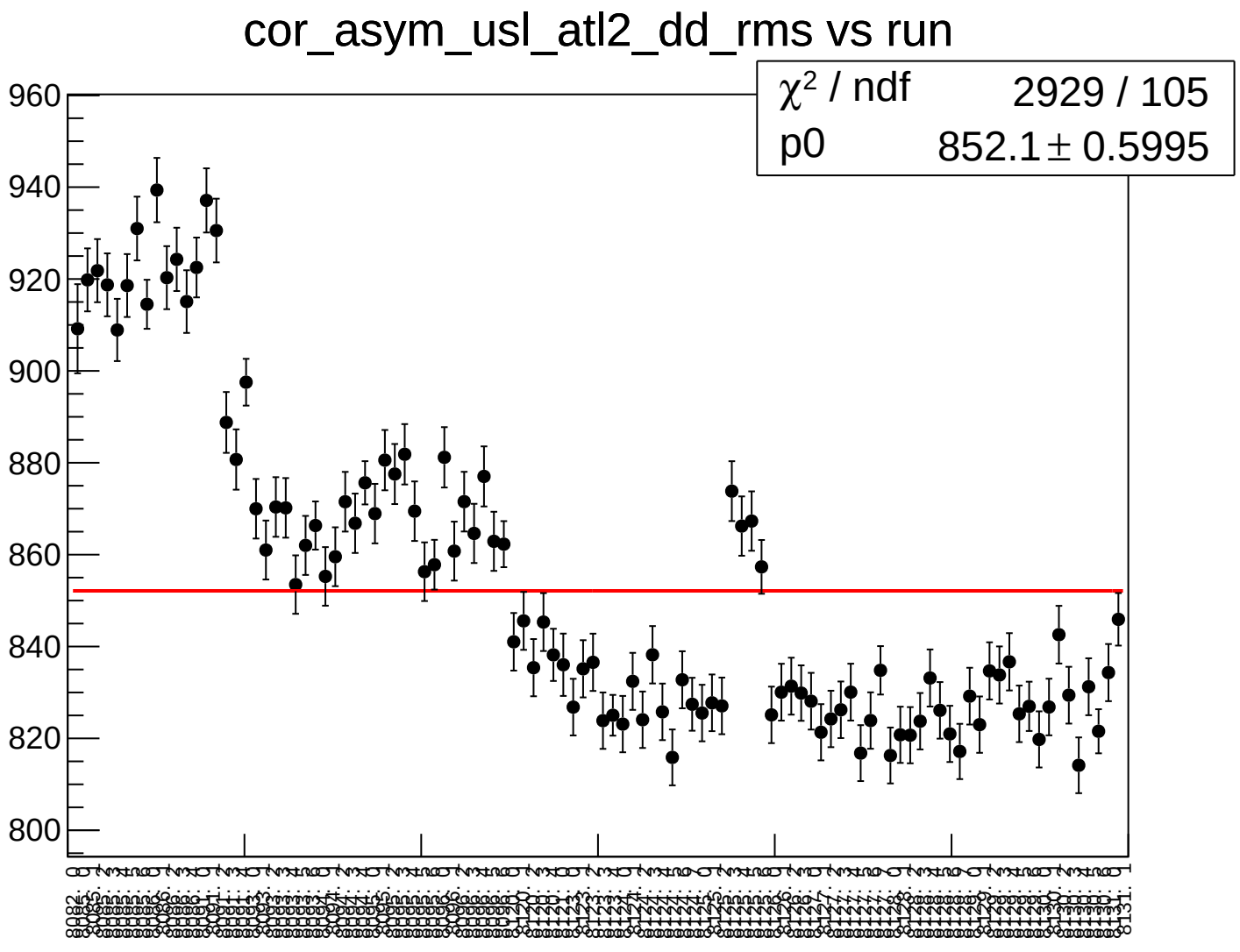

asym_usl_atl2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 91.58 / 105
p0 −6190 ± 3728
100
50
0
−50
−100
−150
−200
pull
Entries 106
Mean −150.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

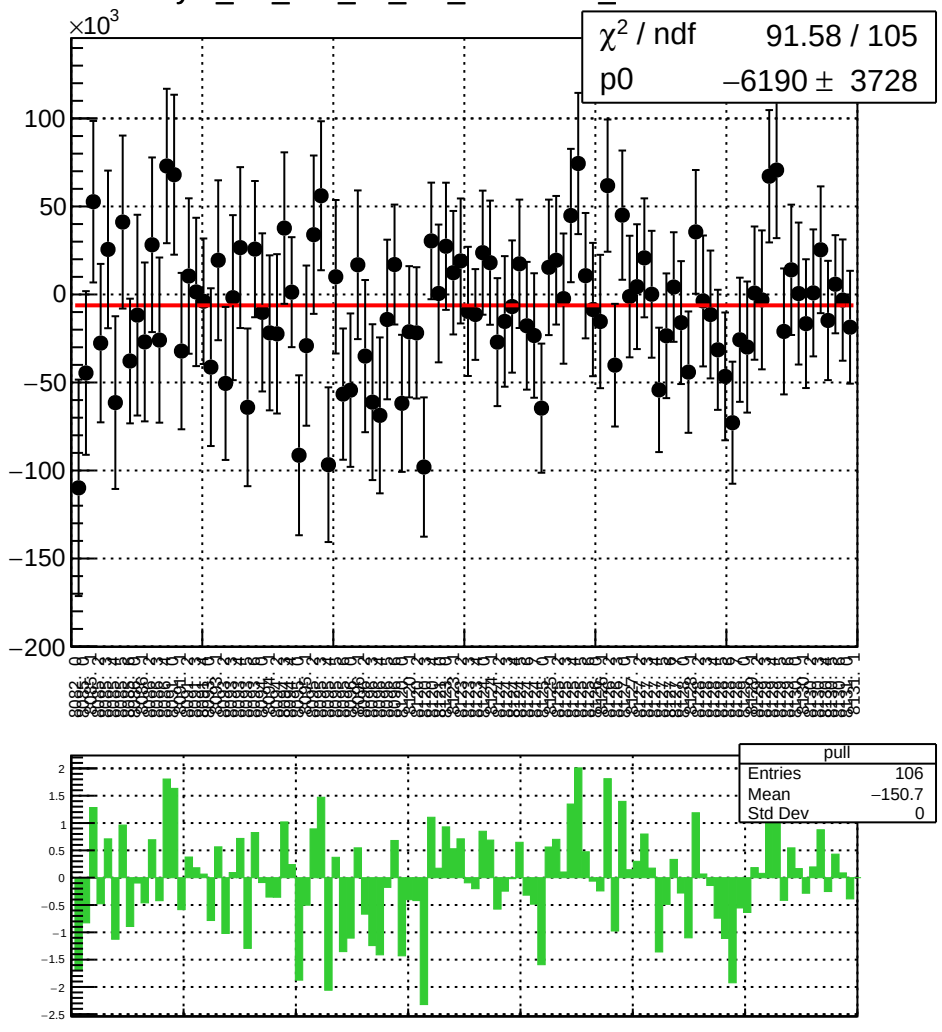

pull1D
Entries 106
Mean −0.01165
Std Dev 0.9294
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

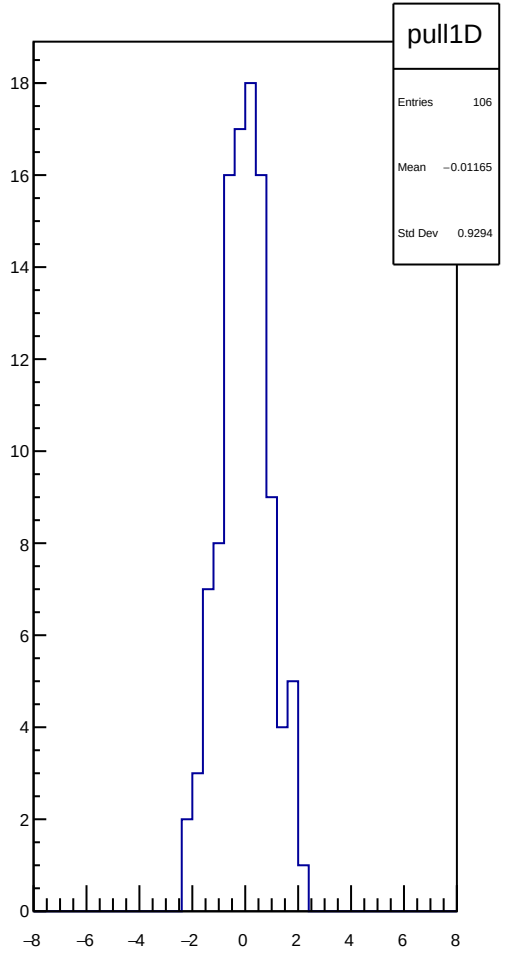

asym_usl_atl2_dd_reg_correction_rms vs run
χ² / ndf 2.487e+04 / 105
p0 3726 ± 2.636
5500
5000
4500
4000
3500
3000

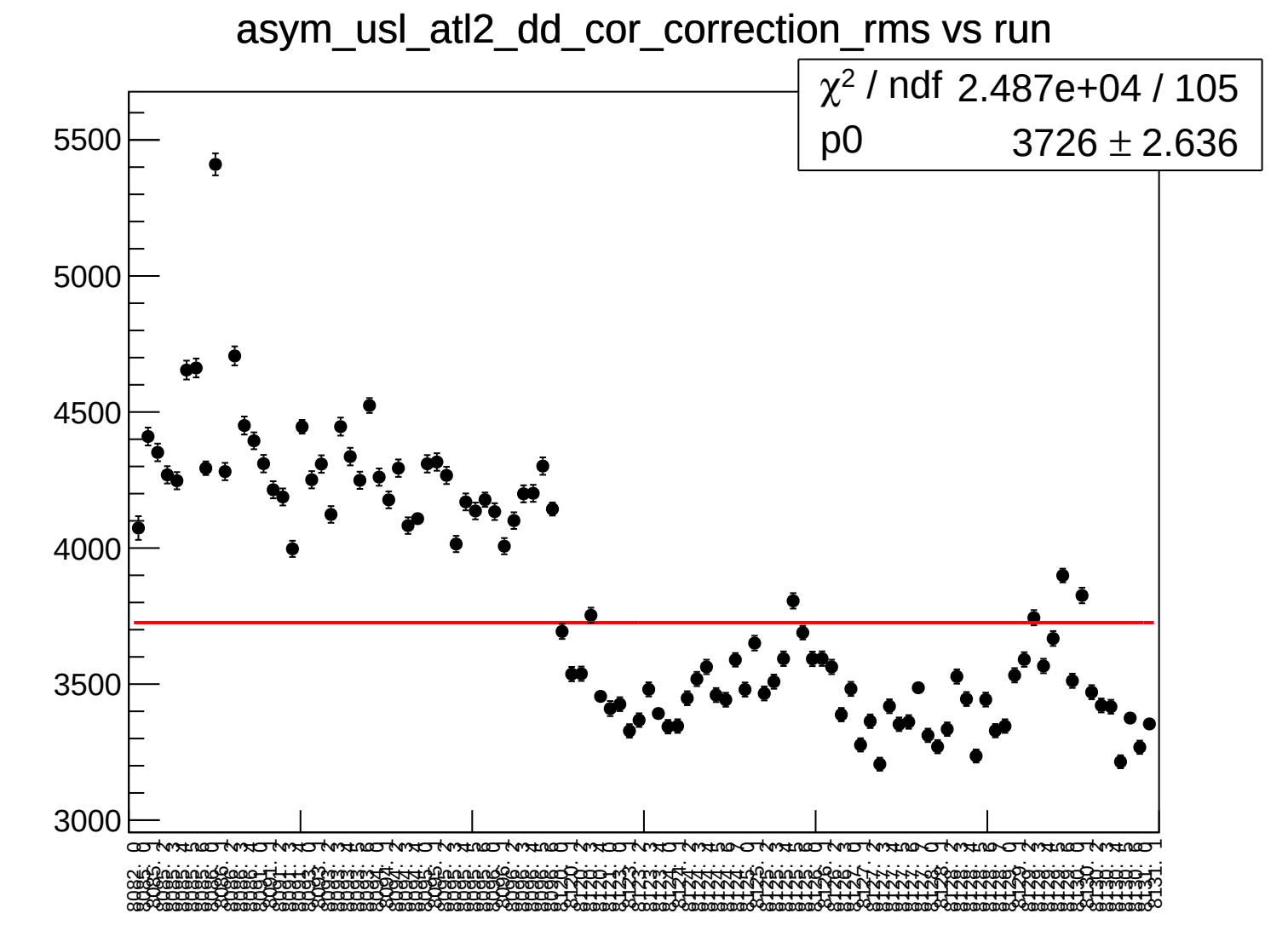

cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 94.92 / 105
p0 361.5 ± 847.9
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 106
Mean 408
Std Dev 0
2
1
0
−1
−2
−3

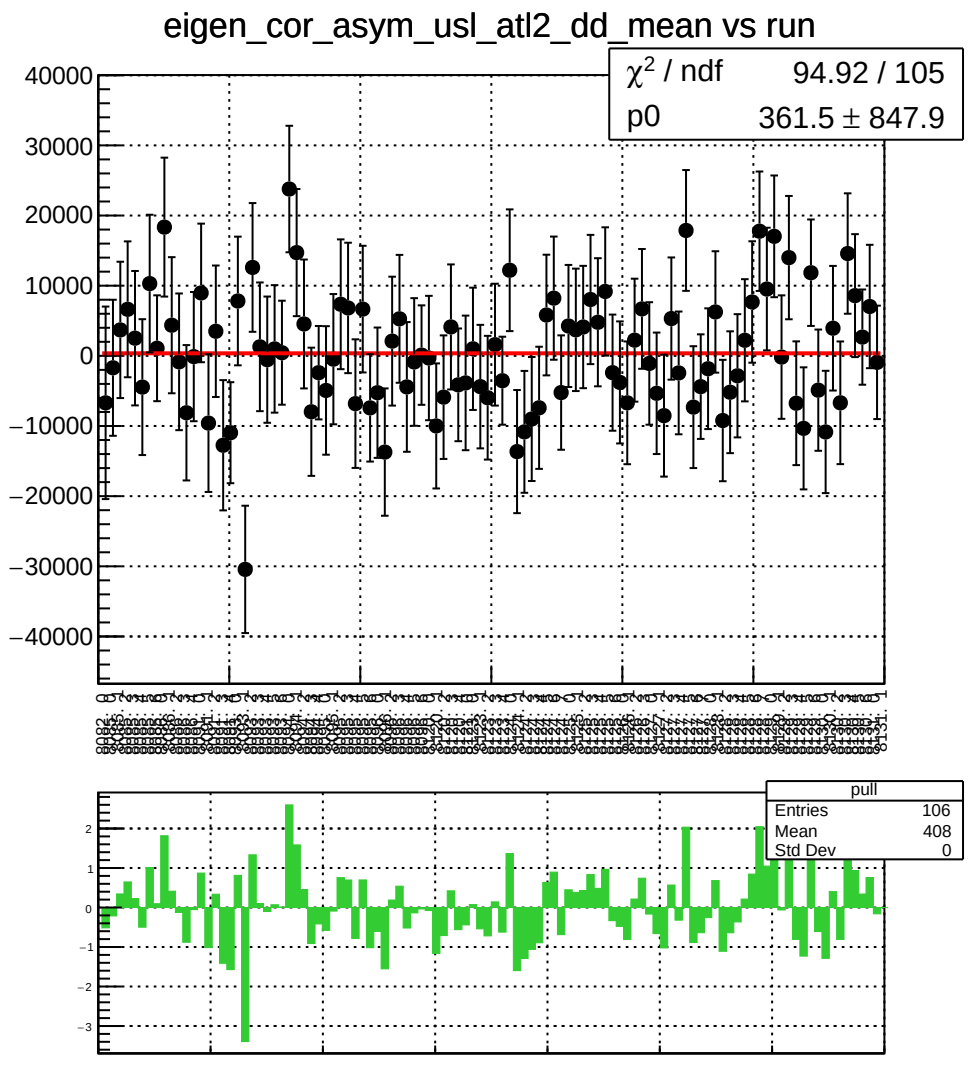

pull1D
Entries 106
Mean 0.007236
Std Dev 0.9462
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

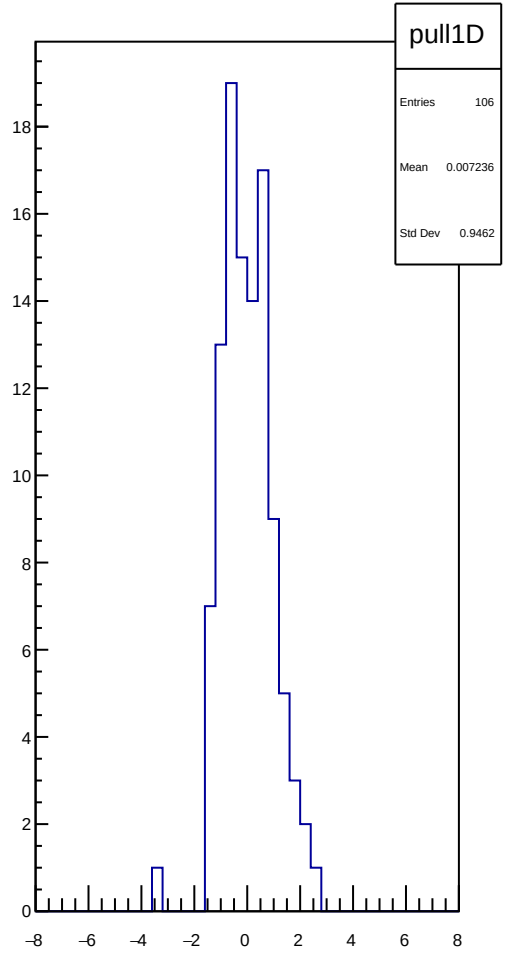

cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 2929 / 105
p0 852.1 ± 0.5995
960
940
920
900
880
860
840
820
800

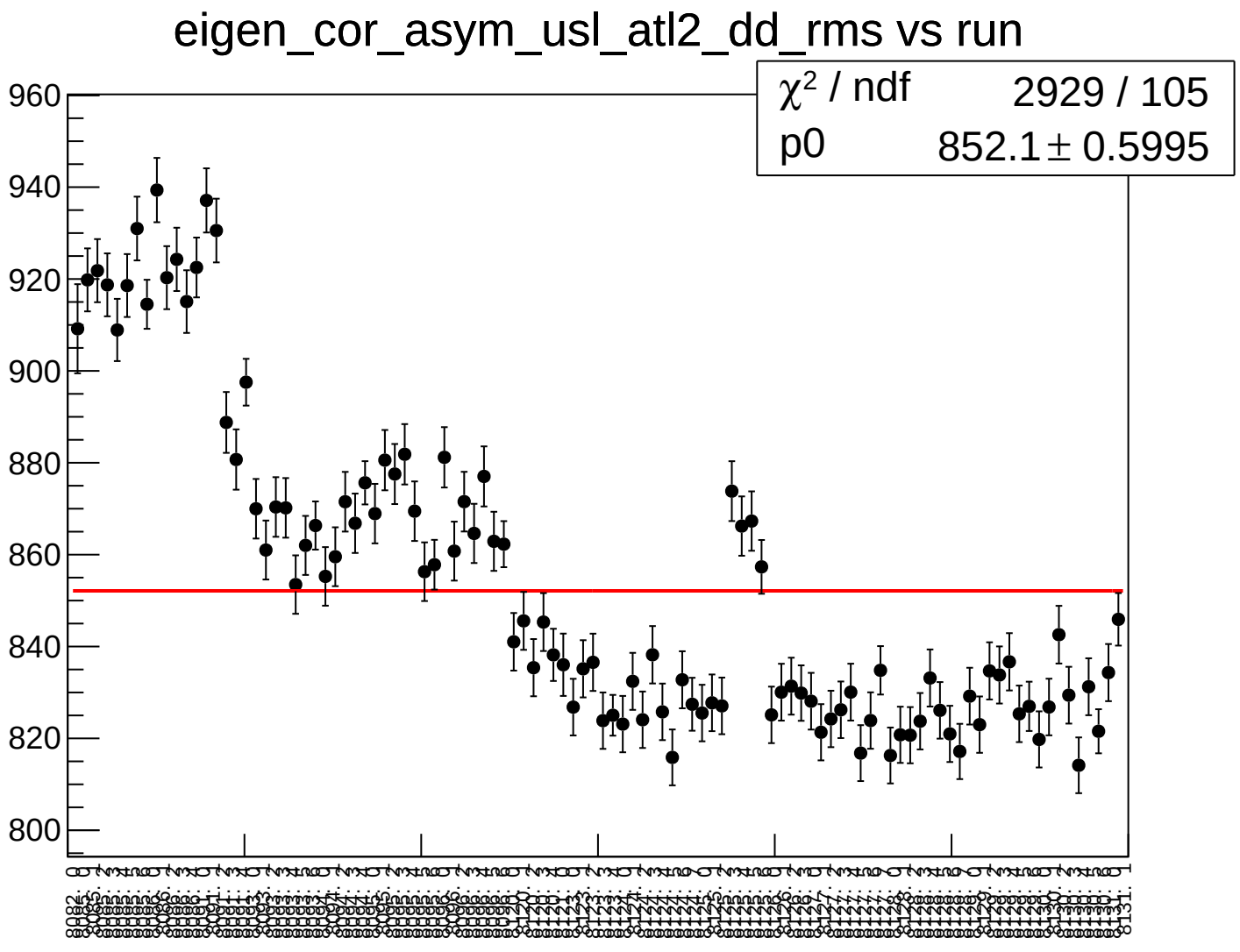

asym_usl_atl2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 91.58 / 105
p0 −6190 ± 3728
100
50
0
−50
−100
−150
−200
pull
Entries 106
Mean −150.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

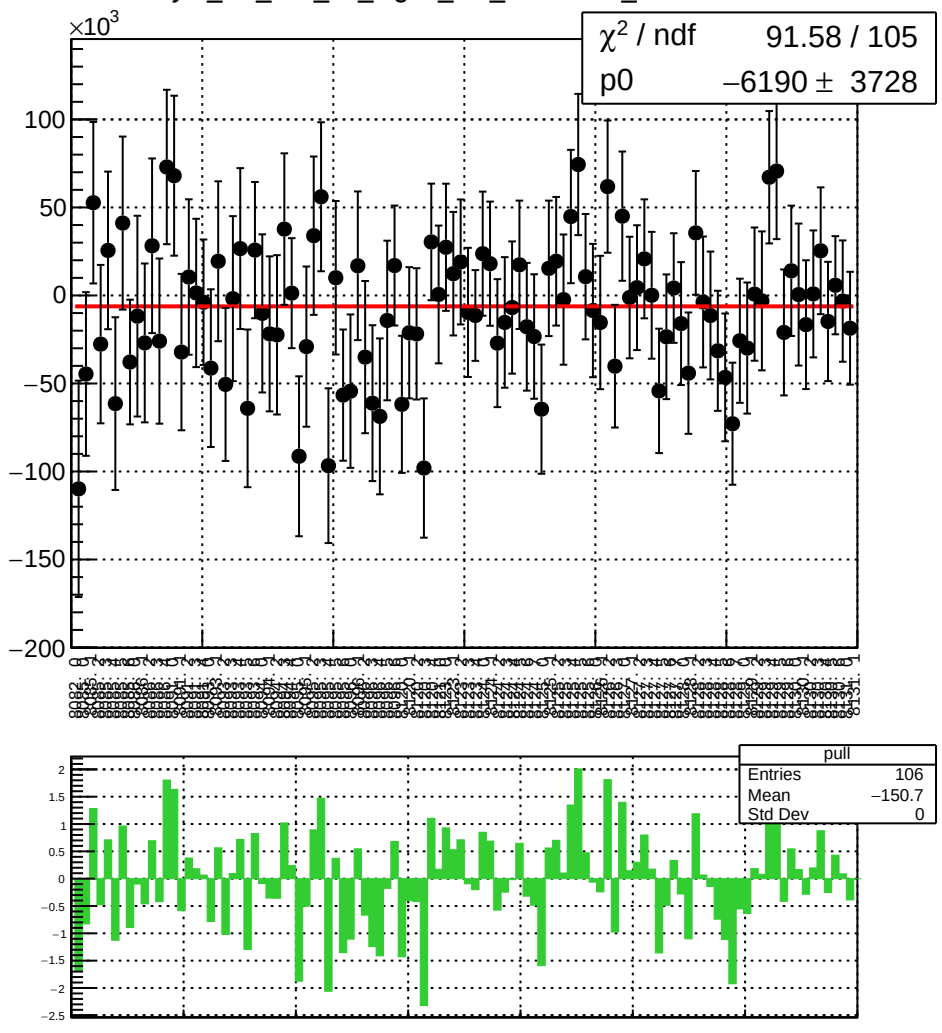

pull1D
Entries 106
Mean −0.01165
Std Dev 0.9294
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

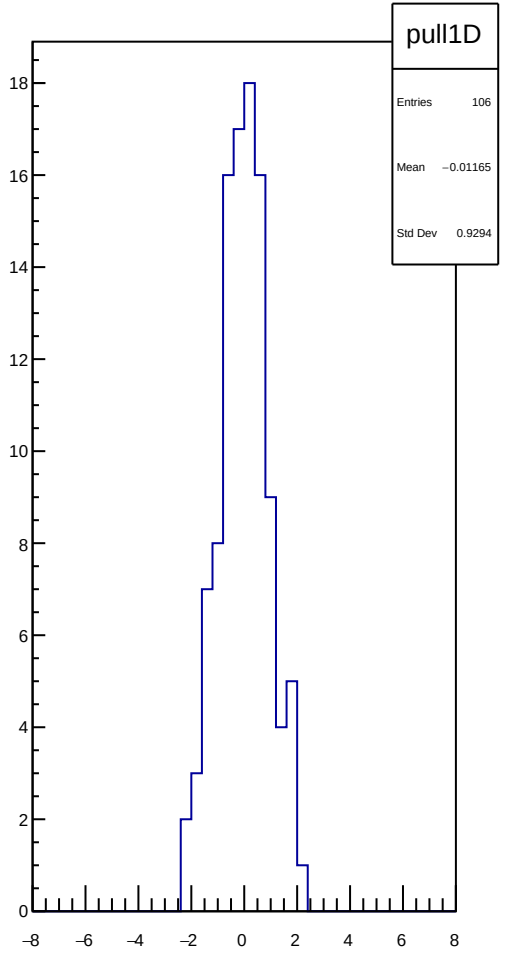

asym_usl_atl2_dd_cor_correction_rms vs run
χ² / ndf 2.487e+04 / 105
p0 3726 ± 2.636
5500
5000
4500
4000
3500
3000

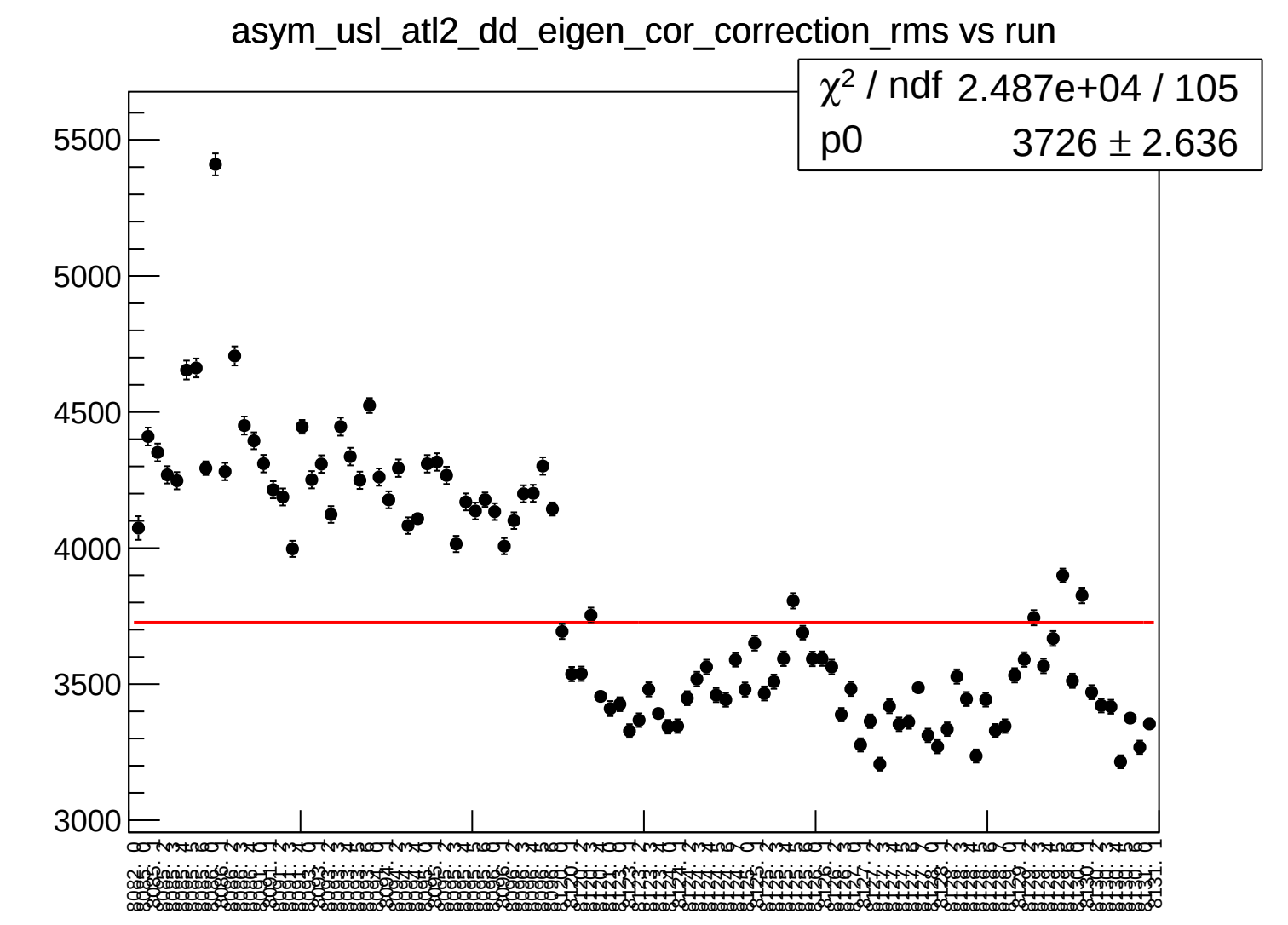

eigen_cor_asym_usl_atl2_dd_mean vs run
χ² / ndf 94.92 / 105
p0 361.5 ± 847.9
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 106
Mean 408
Std Dev 0
2
1
0
−1
−2
−3

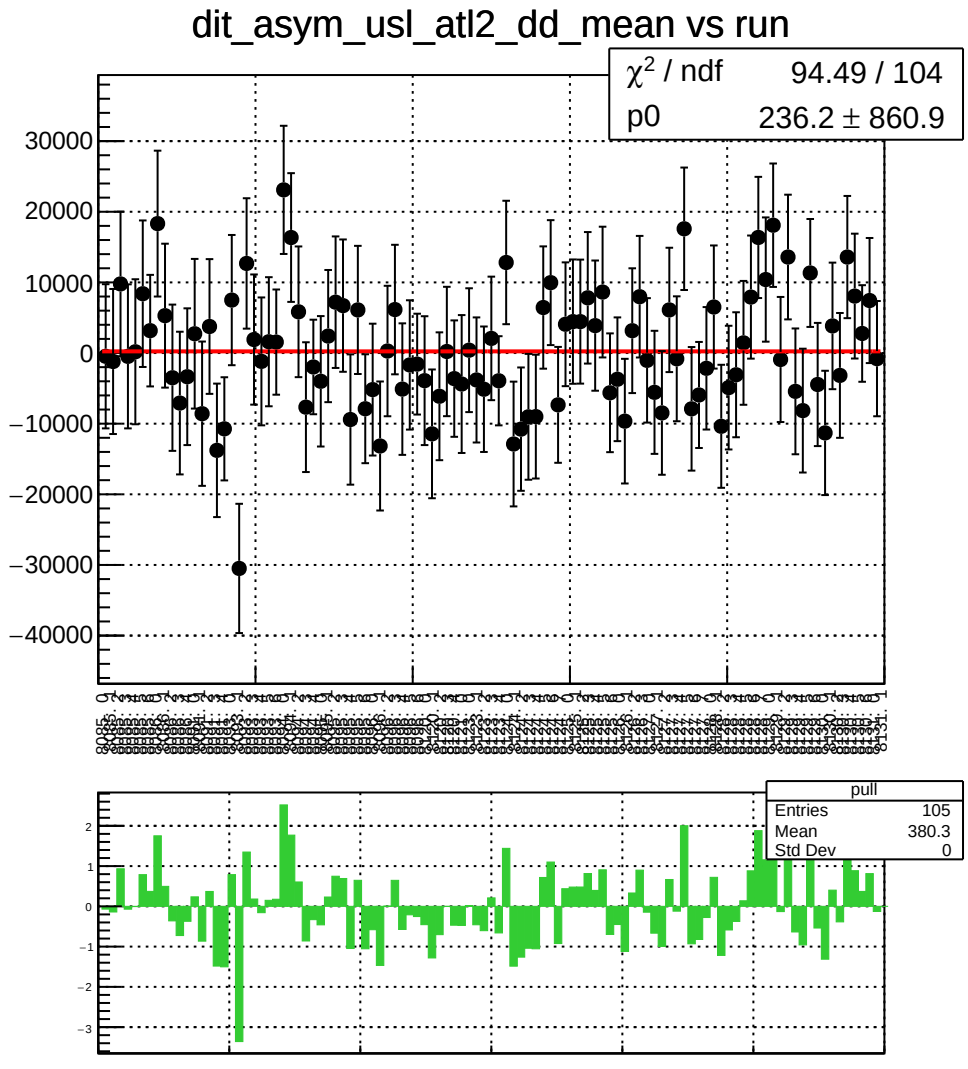

pull1D
Entries 106
Mean 0.007236
Std Dev 0.9462
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

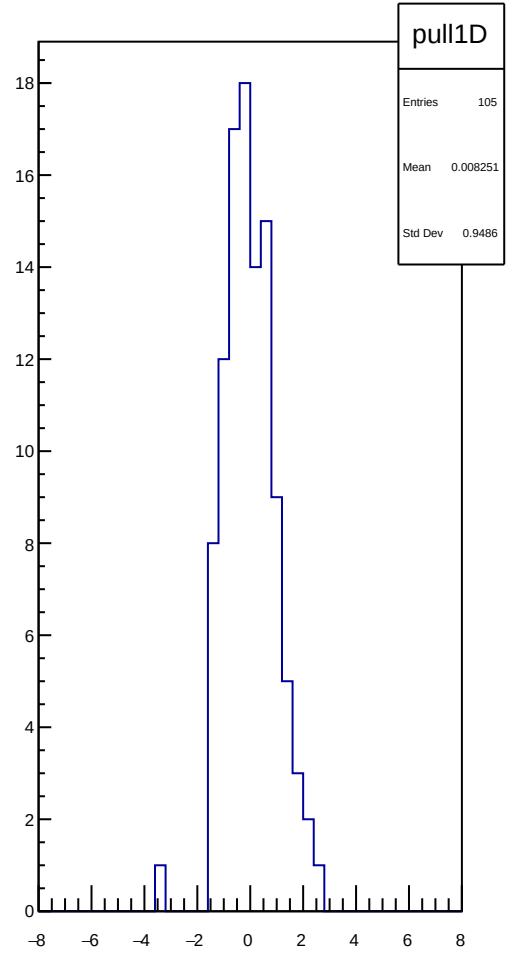

eigen_cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 2929 / 105
p0 852.1 ± 0.5995
960
940
920
900
880
860
840
820
800

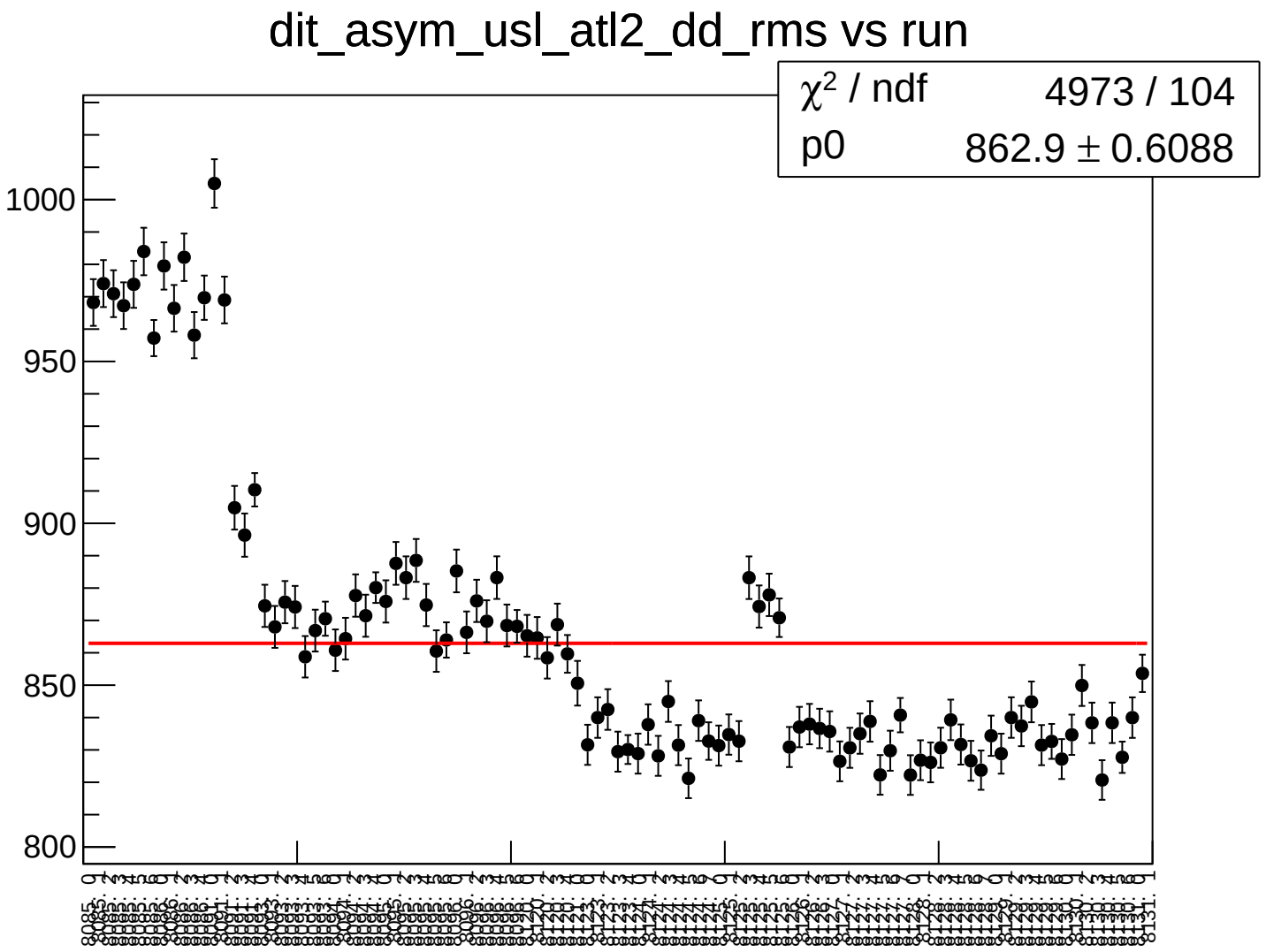

asym_usl_atl2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 91.58 / 105
p0 −6190 ± 3728
100
50
0
−50
−100
−150
−200
pull
Entries 106
Mean −150.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

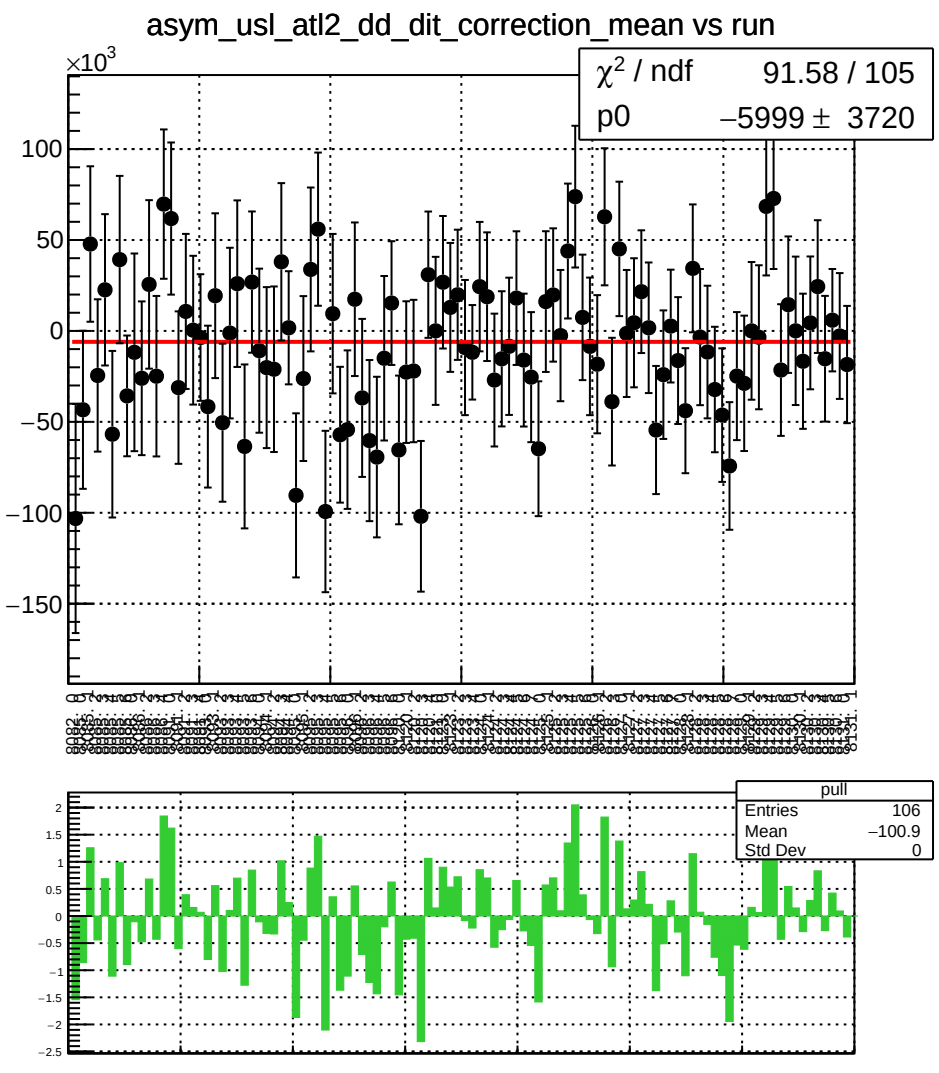

pull1D
Entries 106
Mean −0.01165
Std Dev 0.9294
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

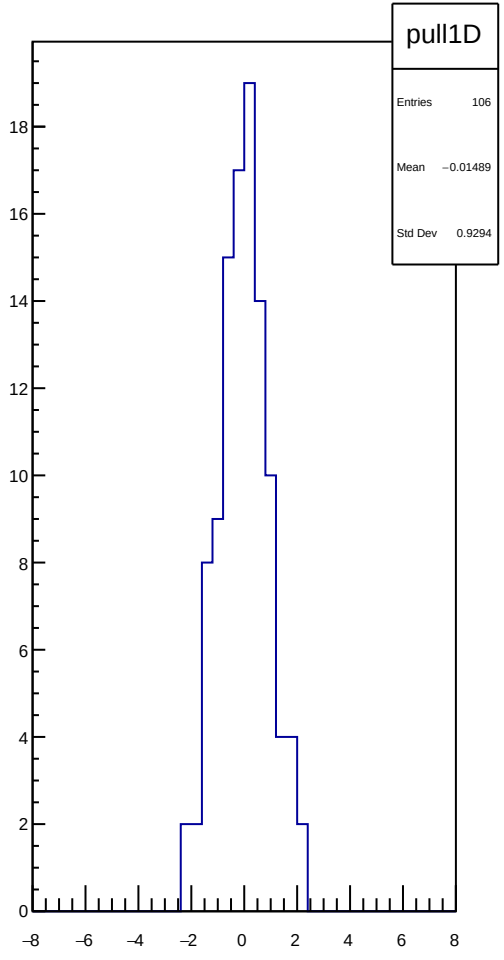

asym_usl_atl2_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.487e+04 / 105
p0 3726 ± 2.636
5500
5000
4500
4000
3500
3000

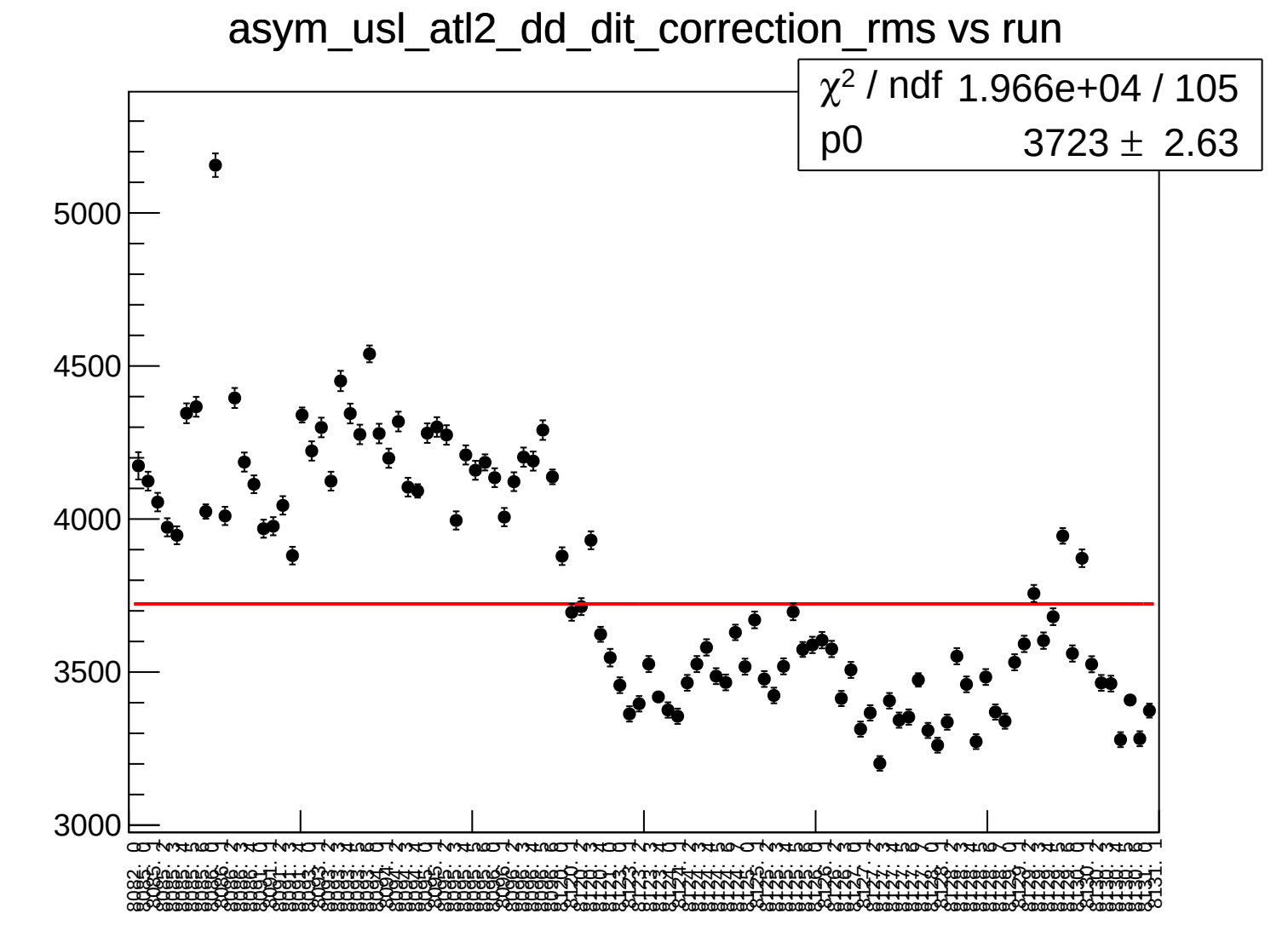

dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 94.49 / 104
p0 236.2 ± 860.9
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 105
Mean 380.3
Std Dev 0
2
1
0
−1
−2
−3

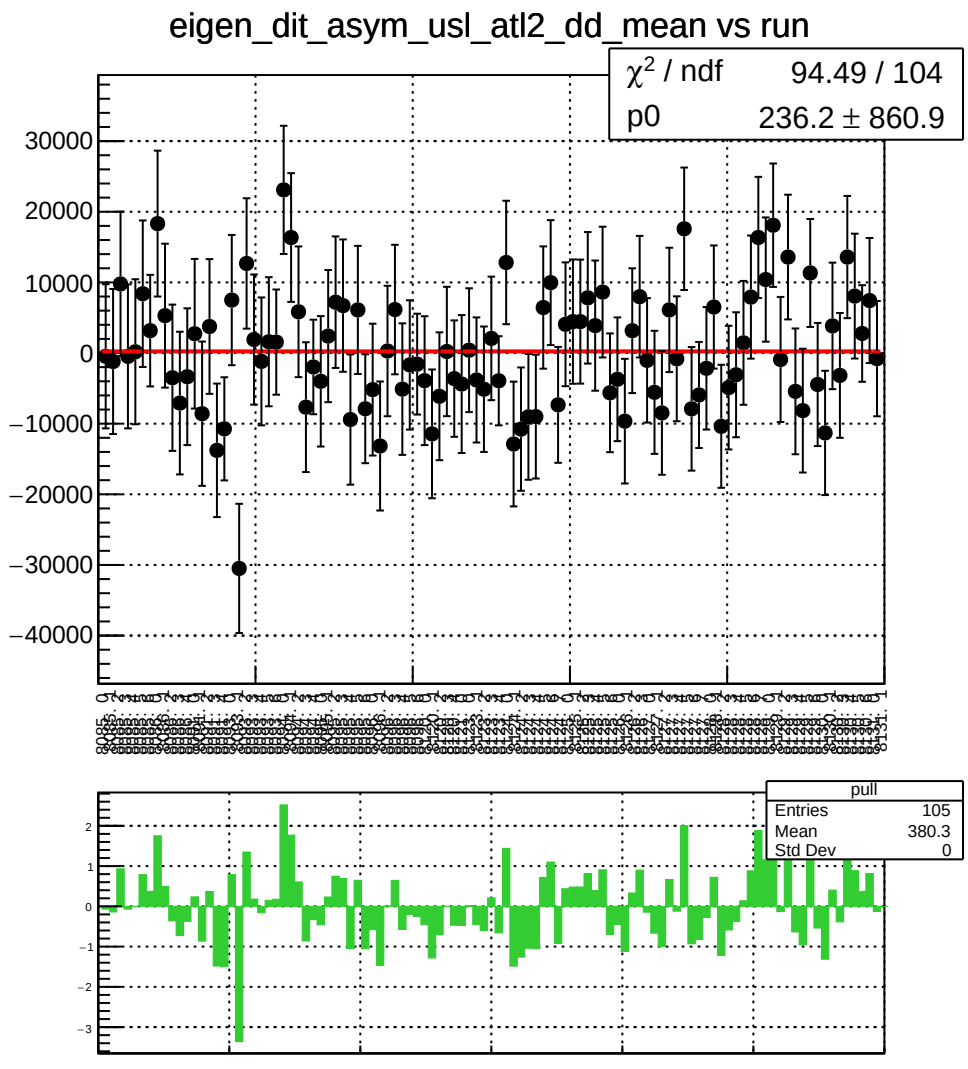

pull1D
Entries 105
Mean 0.008251
Std Dev 0.9486
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

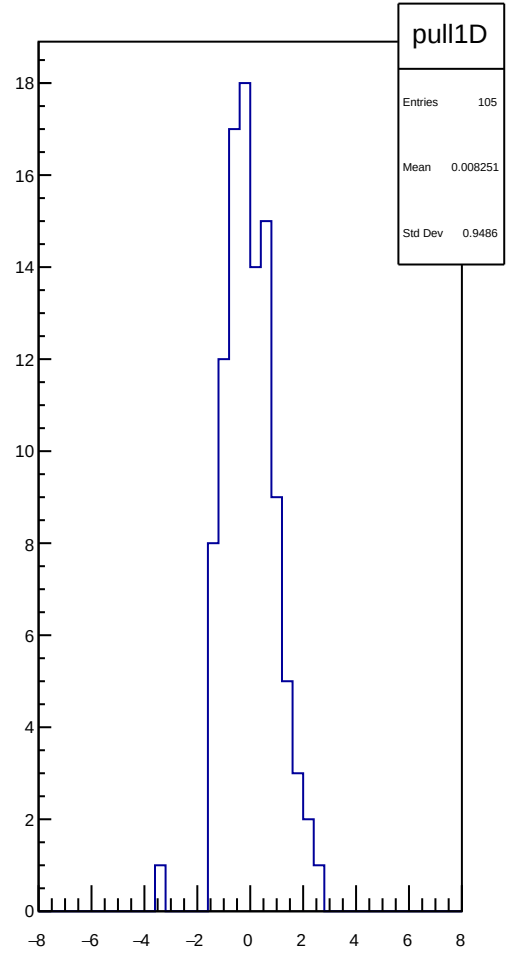

dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 4973 / 104
p0 862.9 ± 0.6088
1000
950
900
850
800

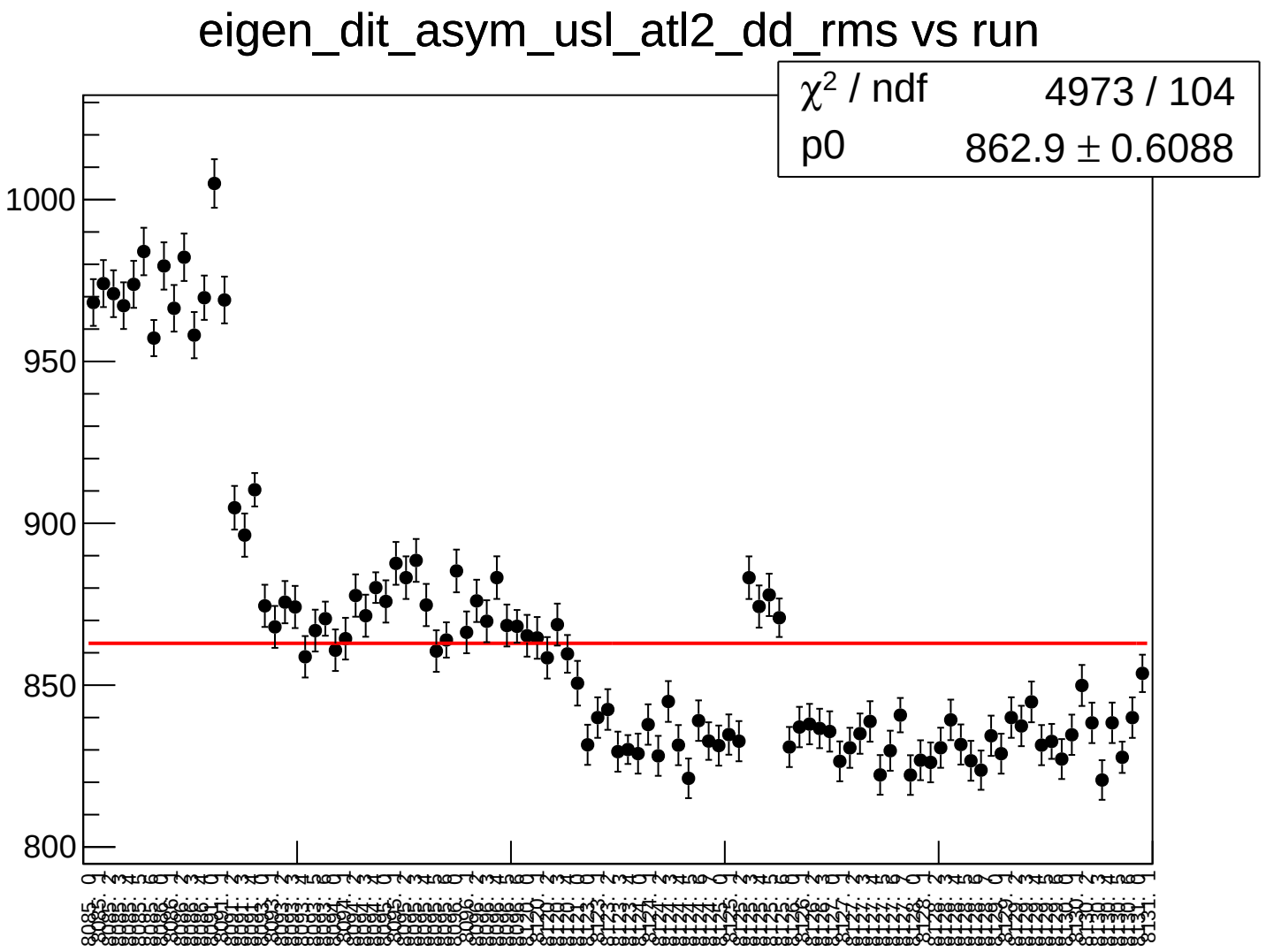

asym_usl_atl2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 91.58 / 105
p0 −5999 ± 3720
100
50
0
−50
−100
−150
pull
Entries 106
Mean −100.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

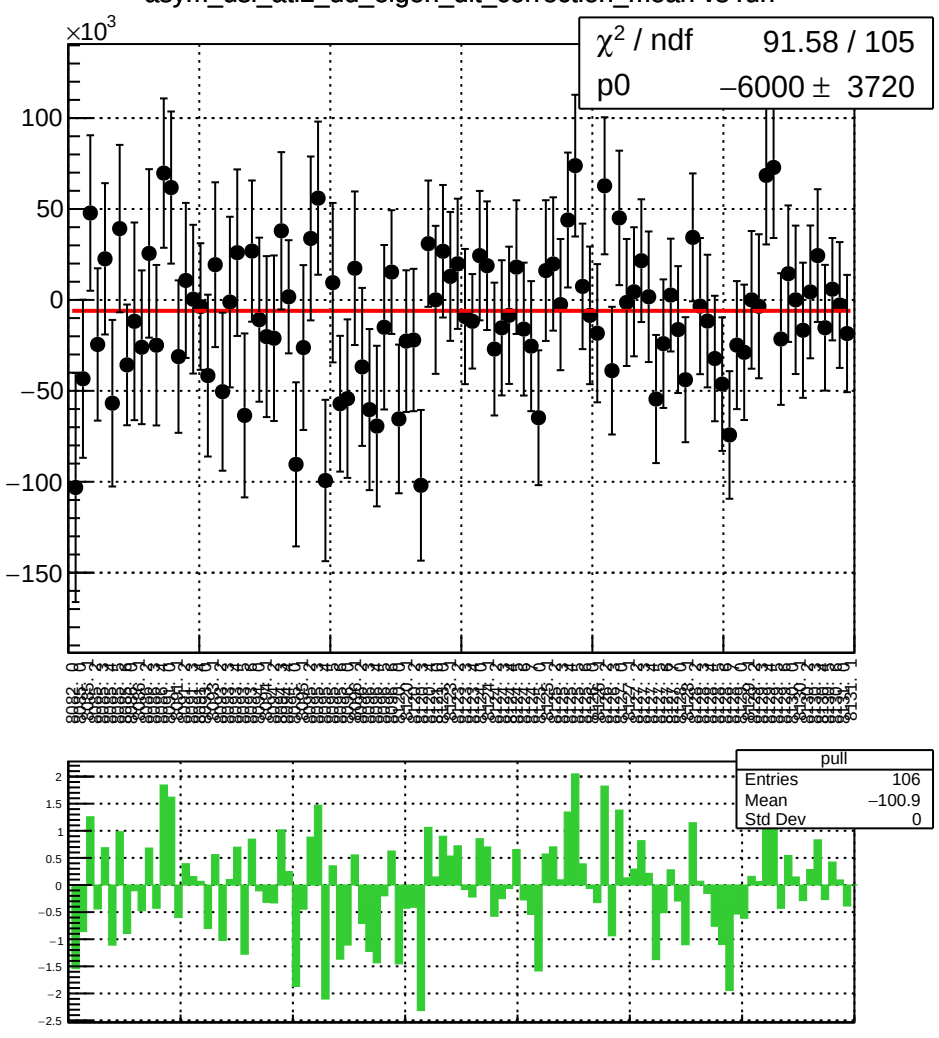

pull1D
Entries 106
Mean −0.01489
Std Dev 0.9294
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

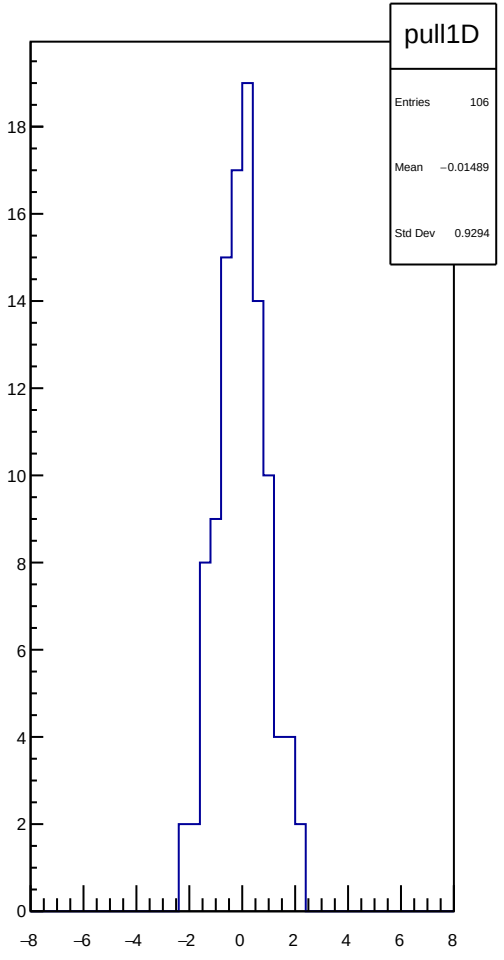

asym_usl_atl2_dd_dit_correction_rms vs run
χ² / ndf 1.966e+04 / 105
p0 3723 ± 2.63
5000
4500
4000
3500
3000

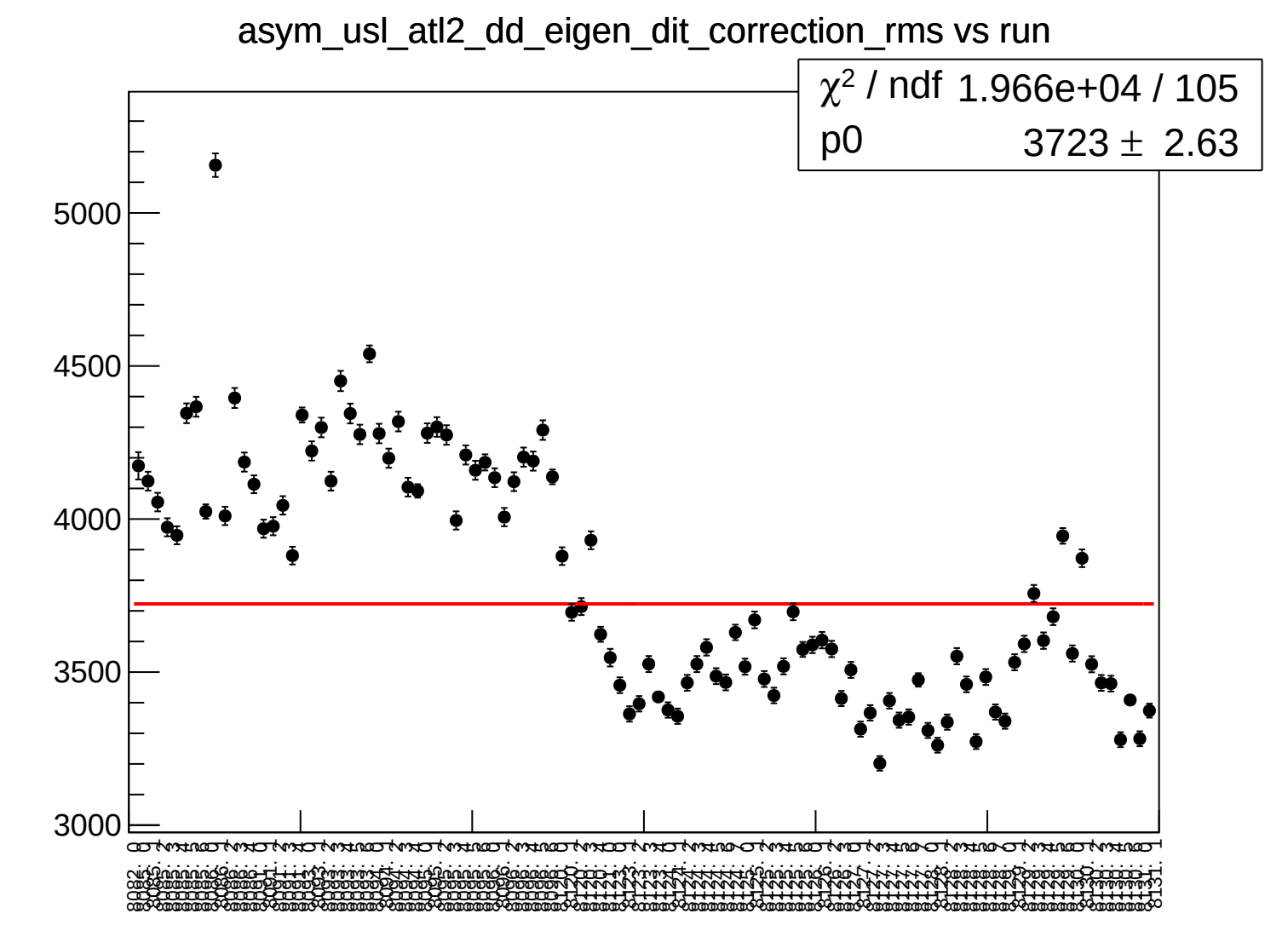

eigen_dit_asym_usl_atl2_dd_mean vs run
χ² / ndf 94.49 / 104
p0 236.2 ± 860.9
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 105
Mean 380.3
Std Dev 0
2
1
0
−1
−2
−3

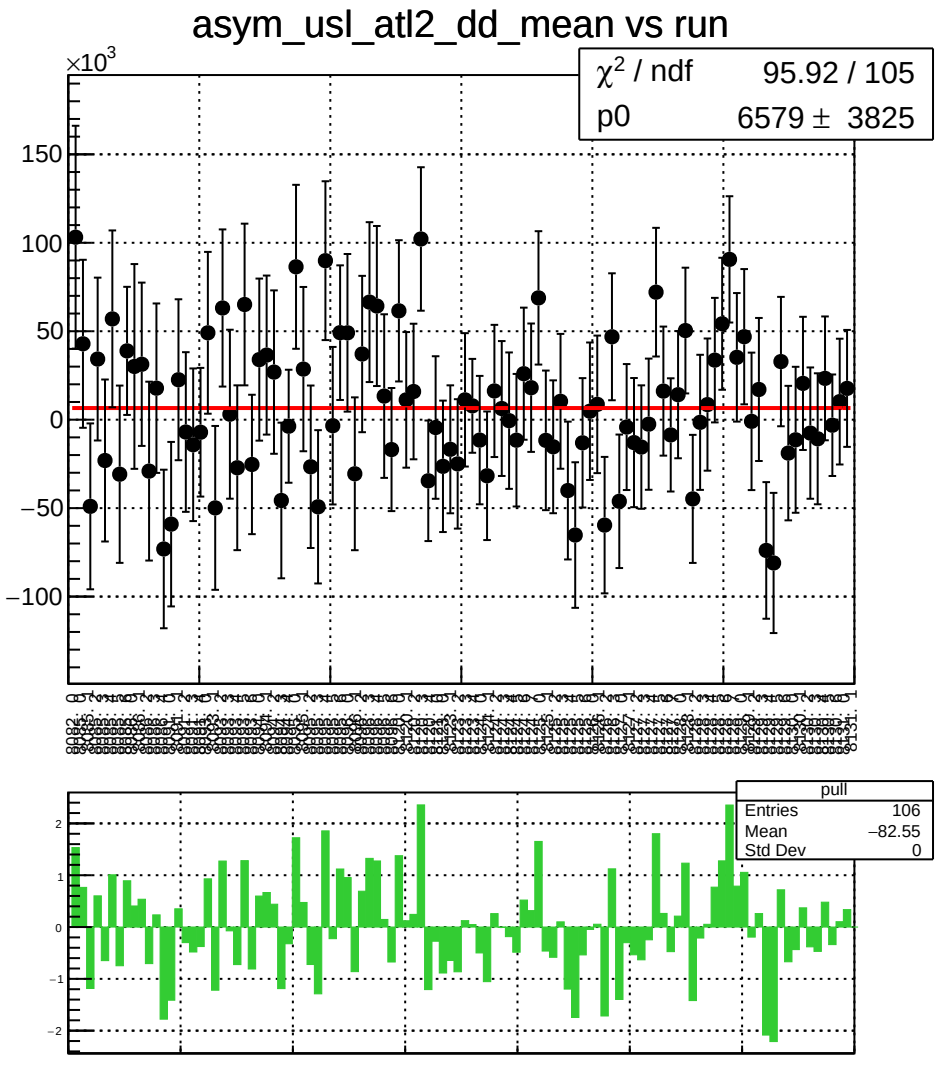

pull1D
Entries 105
Mean 0.008251
Std Dev 0.9486
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

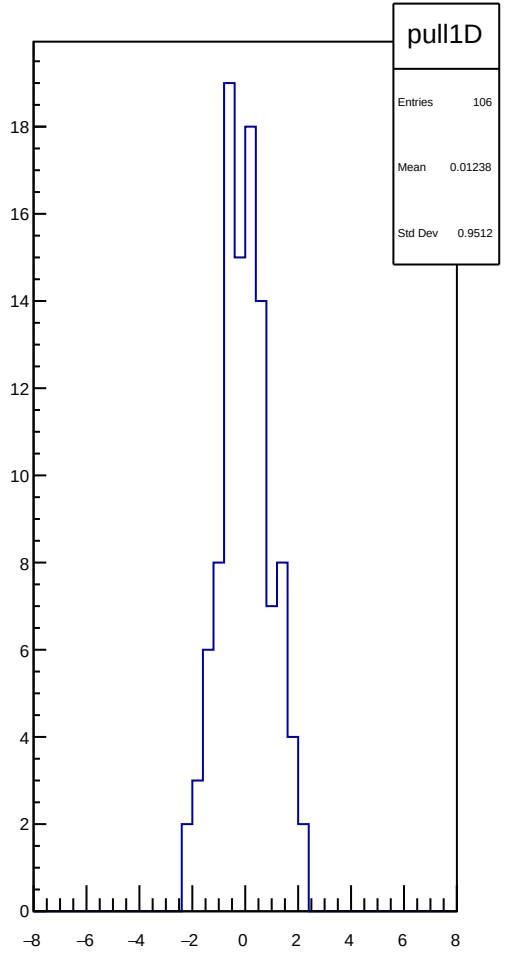

eigen_dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 4973 / 104
p0 862.9 ± 0.6088
1000
950
900
850
800

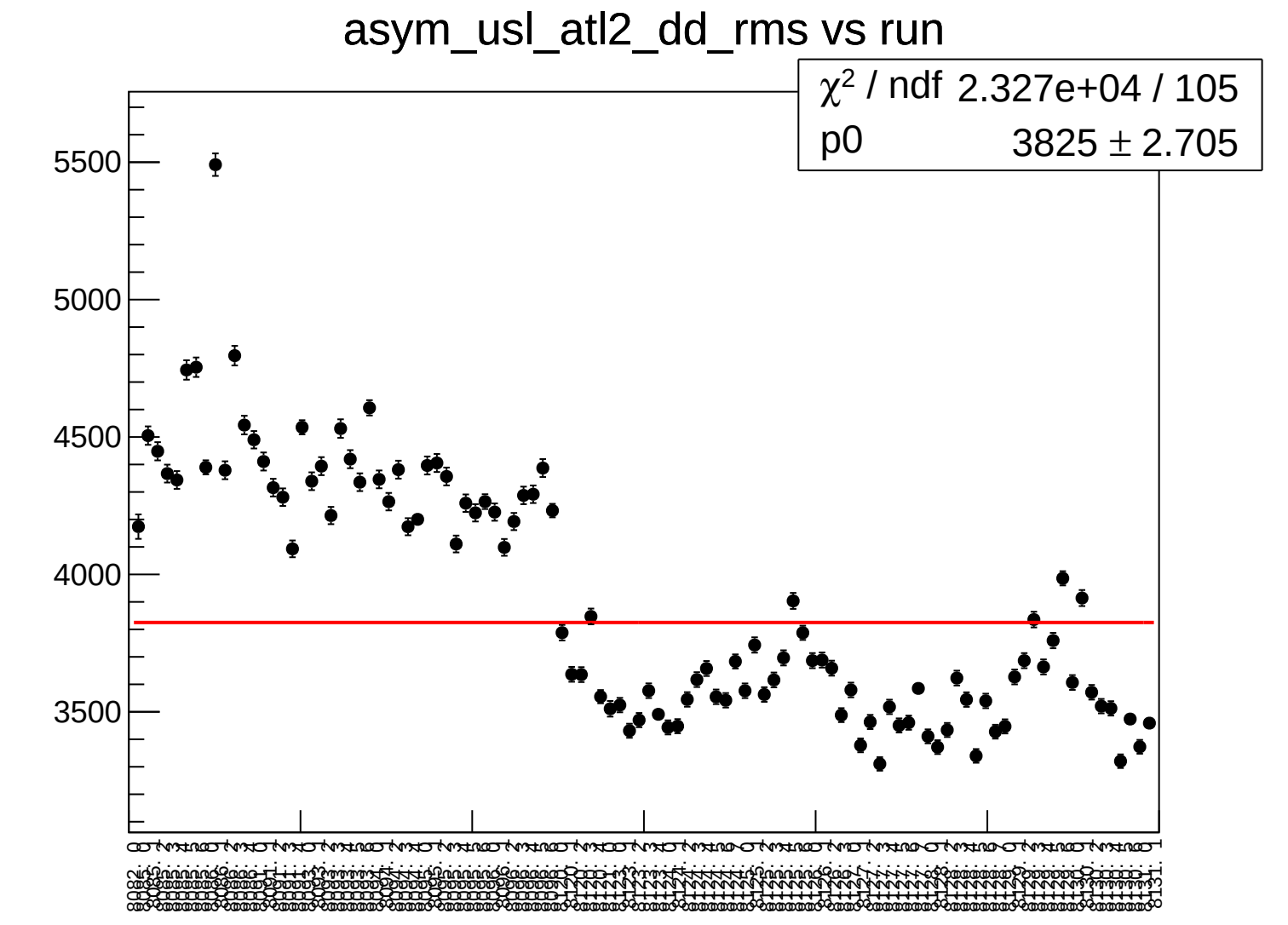

asym_usl_atl2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 91.58 / 105
p0 −6000 ± 3720
100
50
0
−50
−100
−150
pull
Entries 106
Mean −100.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

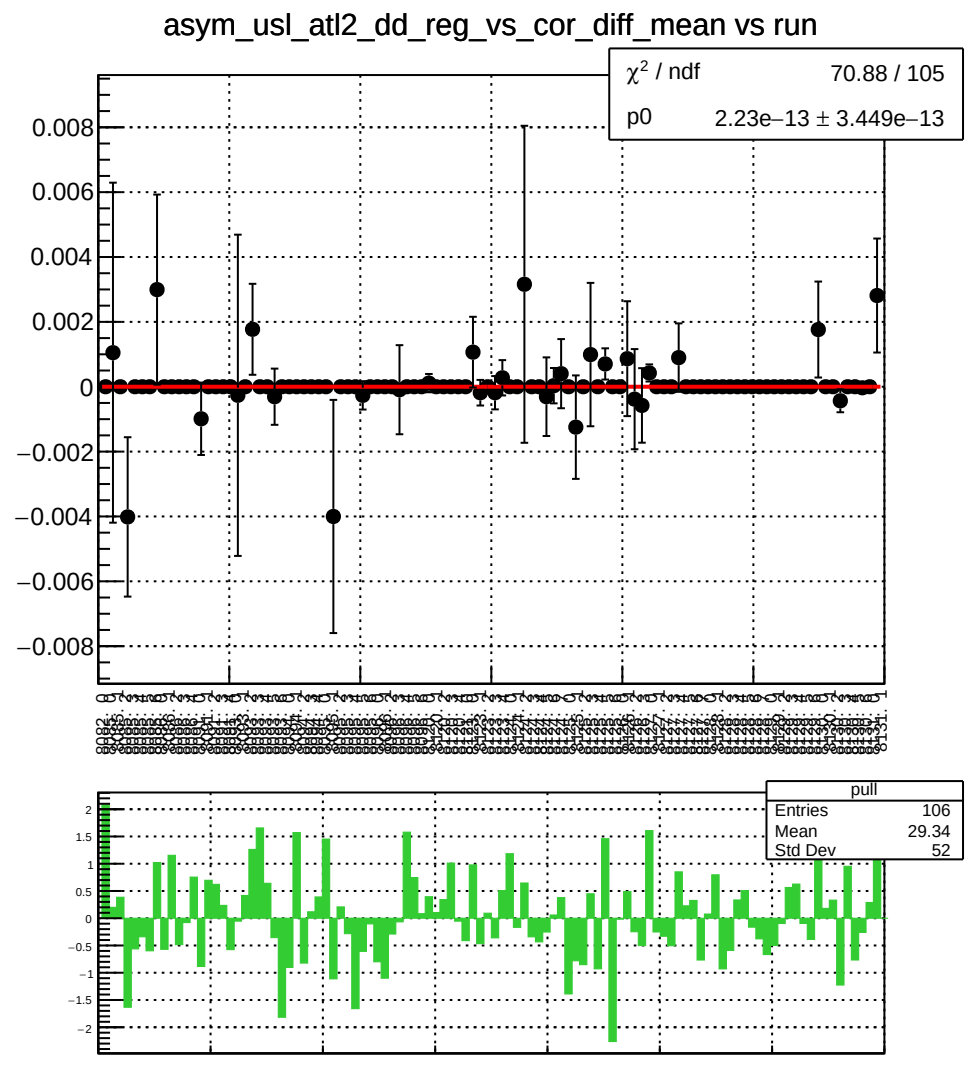

pull1D
Entries 106
Mean −0.01489
Std Dev 0.9294
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

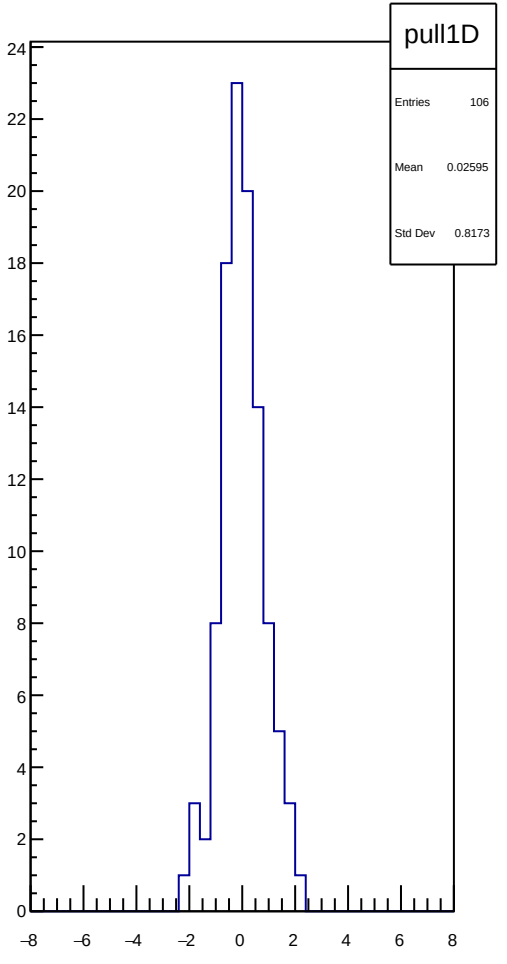

asym_usl_atl2_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.966e+04 / 105
p0 3723 ± 2.63
5000
4500
4000
3500
3000

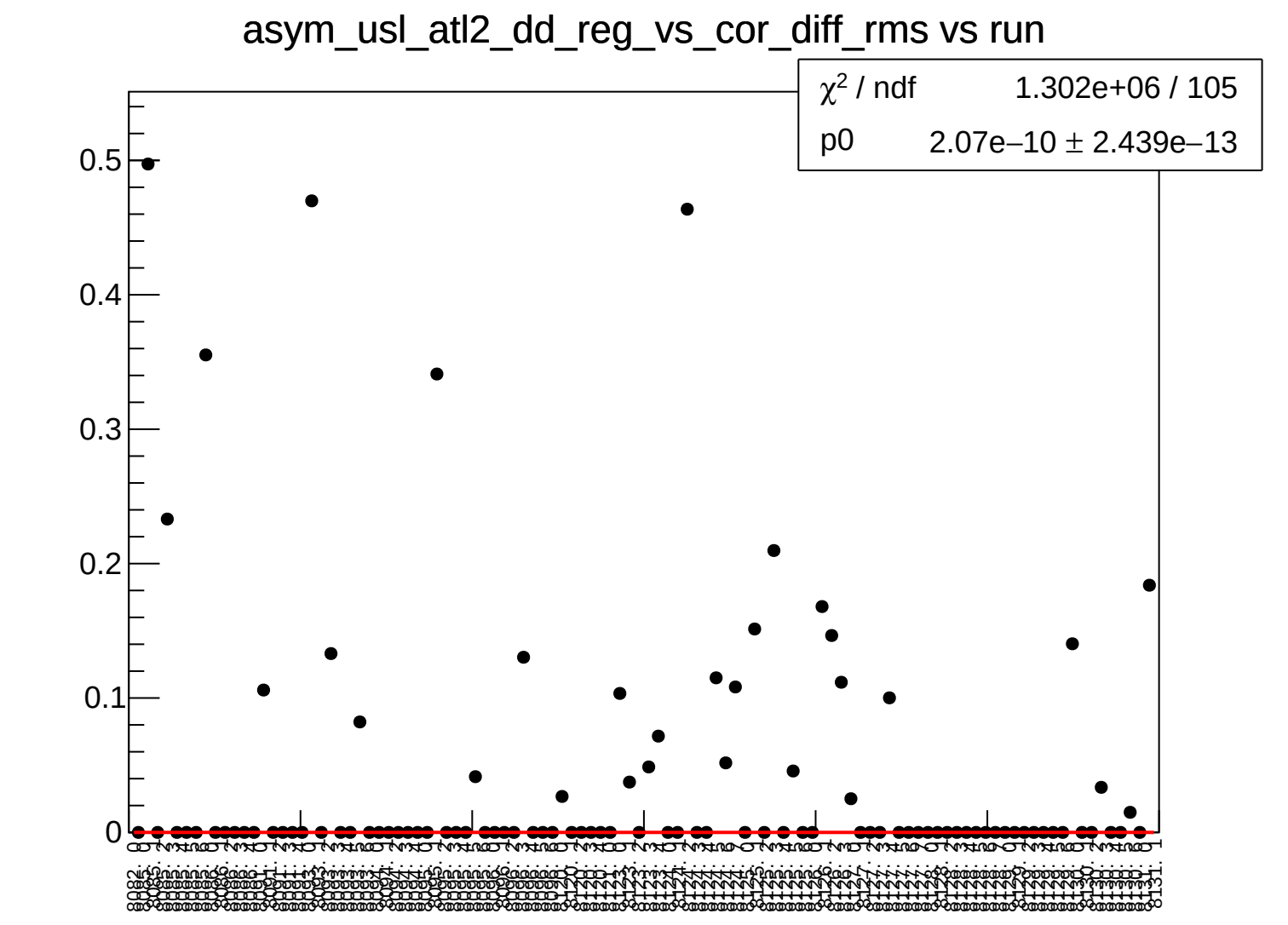

asym_usl_atl2_dd_mean vs run
×10^3
χ^2 / ndf 95.92 / 105
p0 6579 ± 3825
150
100
50
0
−50
−100
pull
Entries 106
Mean −82.55
Std Dev 0
2
1
0
−1
−2

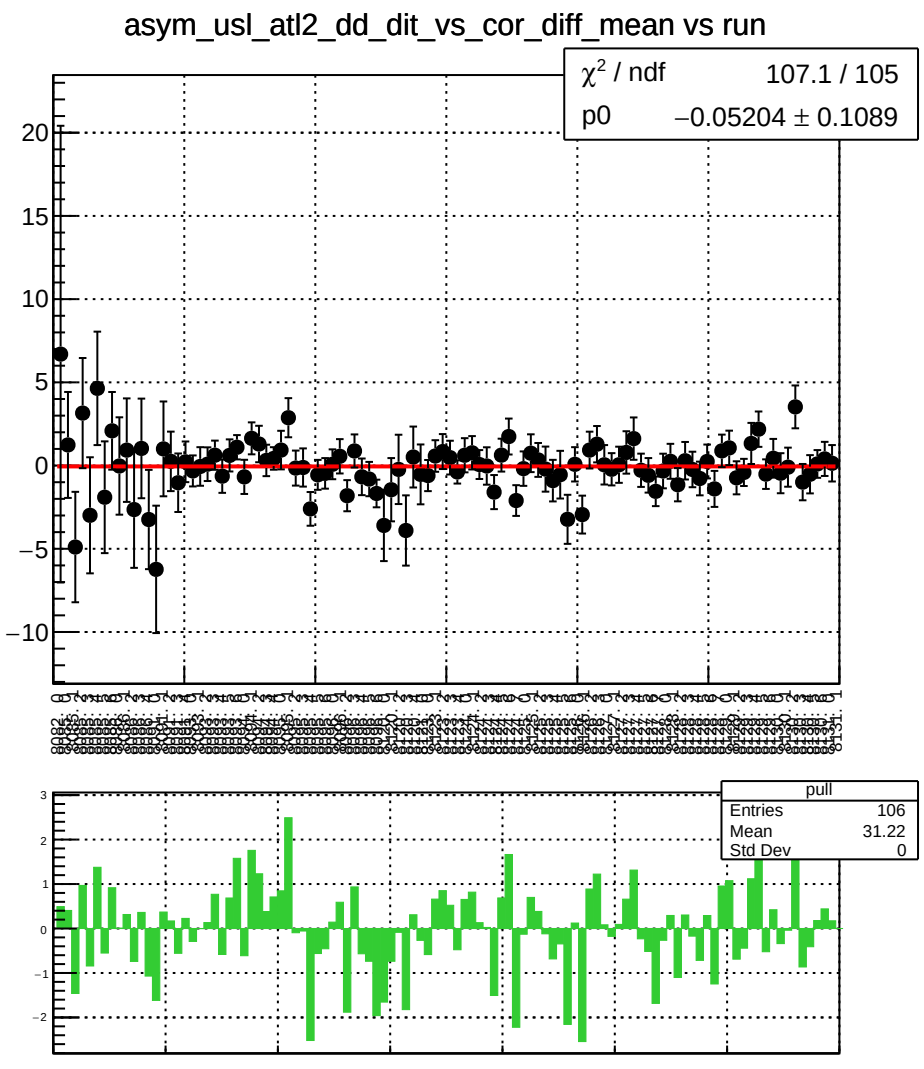

pull1D
Entries 106
Mean 0.01238
Std Dev 0.9512
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

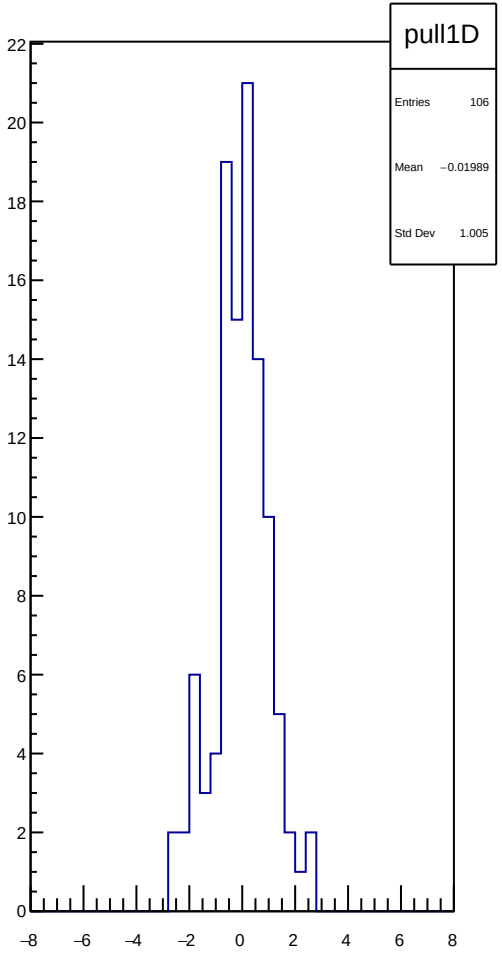

asym_usl_atl2_dd_rms vs run
χ² / ndf 2.327e+04 / 105
p0 3825 ± 2.705
5500
5000
4500
4000
3500

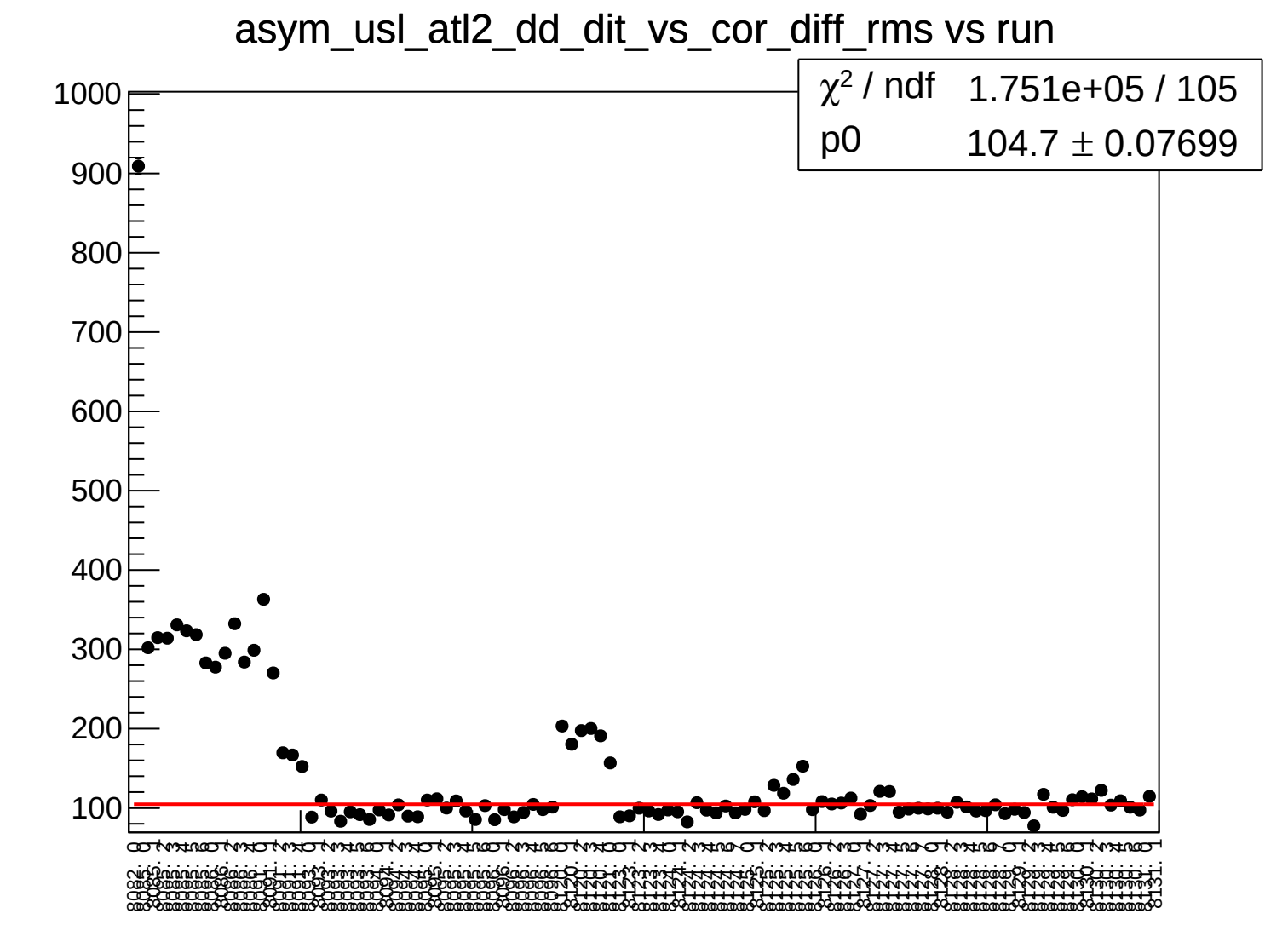

asym_usl_atl2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 70.88 / 105
p0 2.23e−13 ± 3.449e−13
0.008
0.006
0.004
0.002
0
−0.002
−0.004
−0.006
−0.008
pull
Entries 106
Mean 29.34
Std Dev 52
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

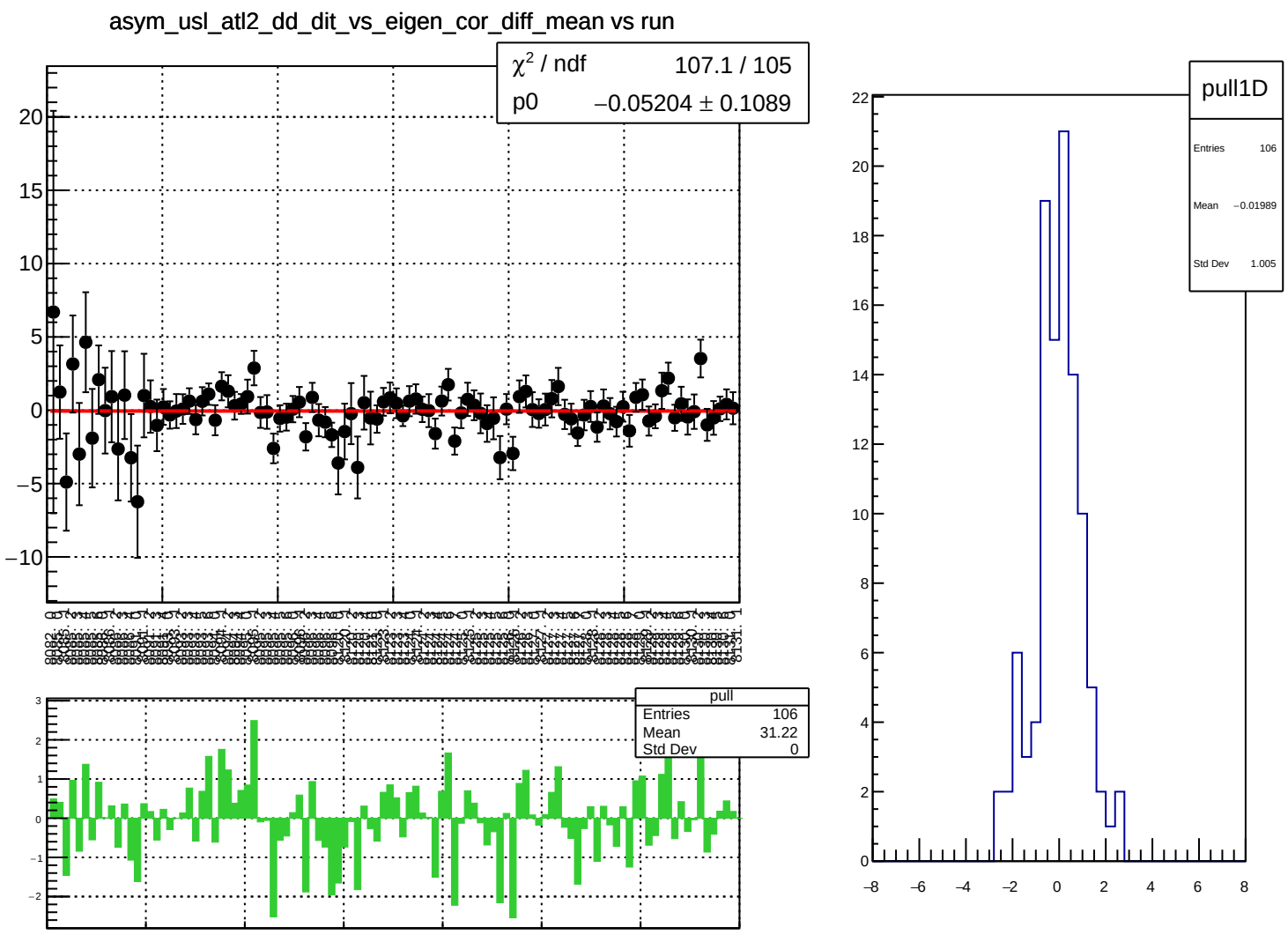

pull1D
Entries 106
Mean 0.02595
Std Dev 0.8173
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

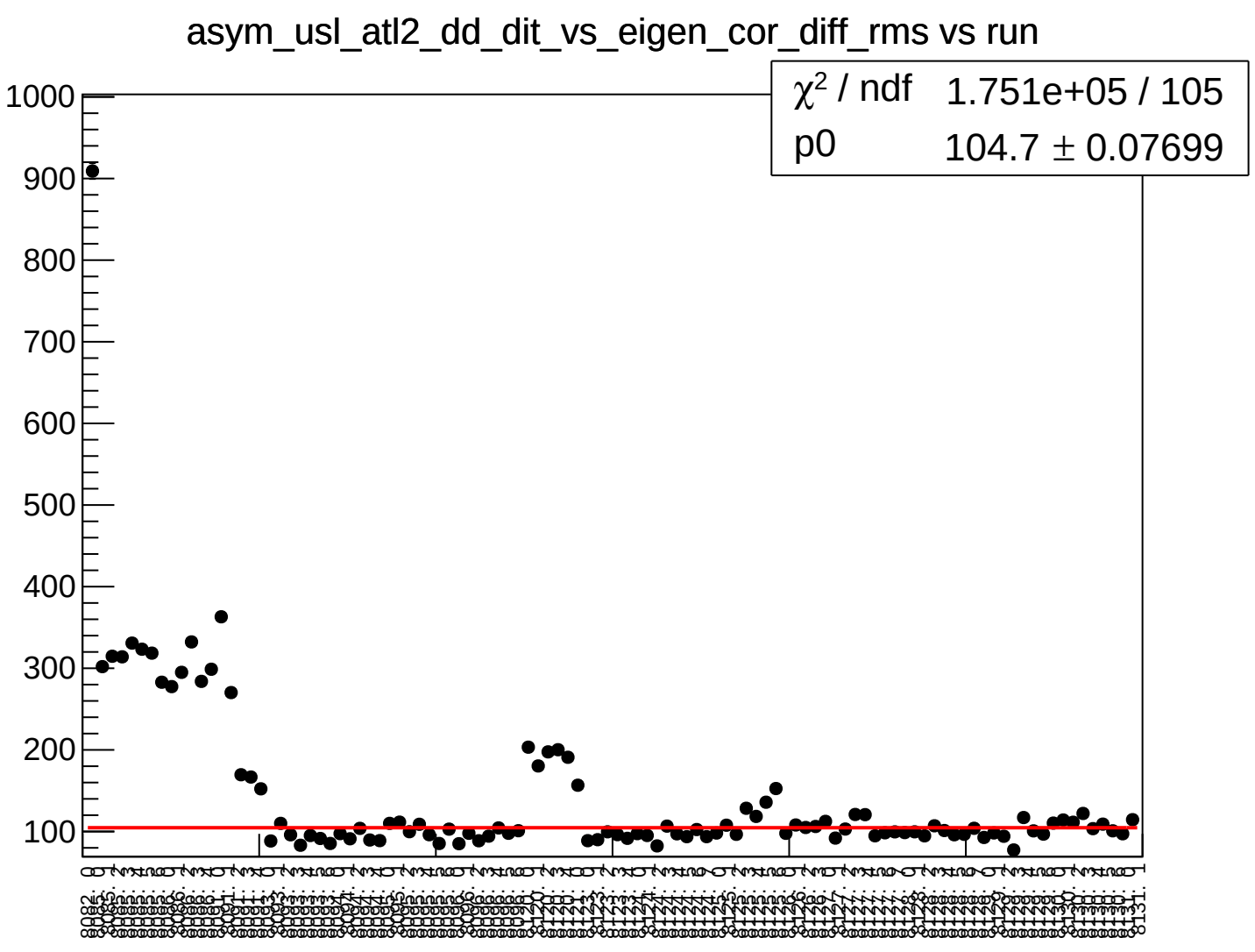

asym_usl_atl2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.302e+06 / 105
p0 2.07e−10 ± 2.439e−13
0.5
0.4
0.3
0.2
0.1
0

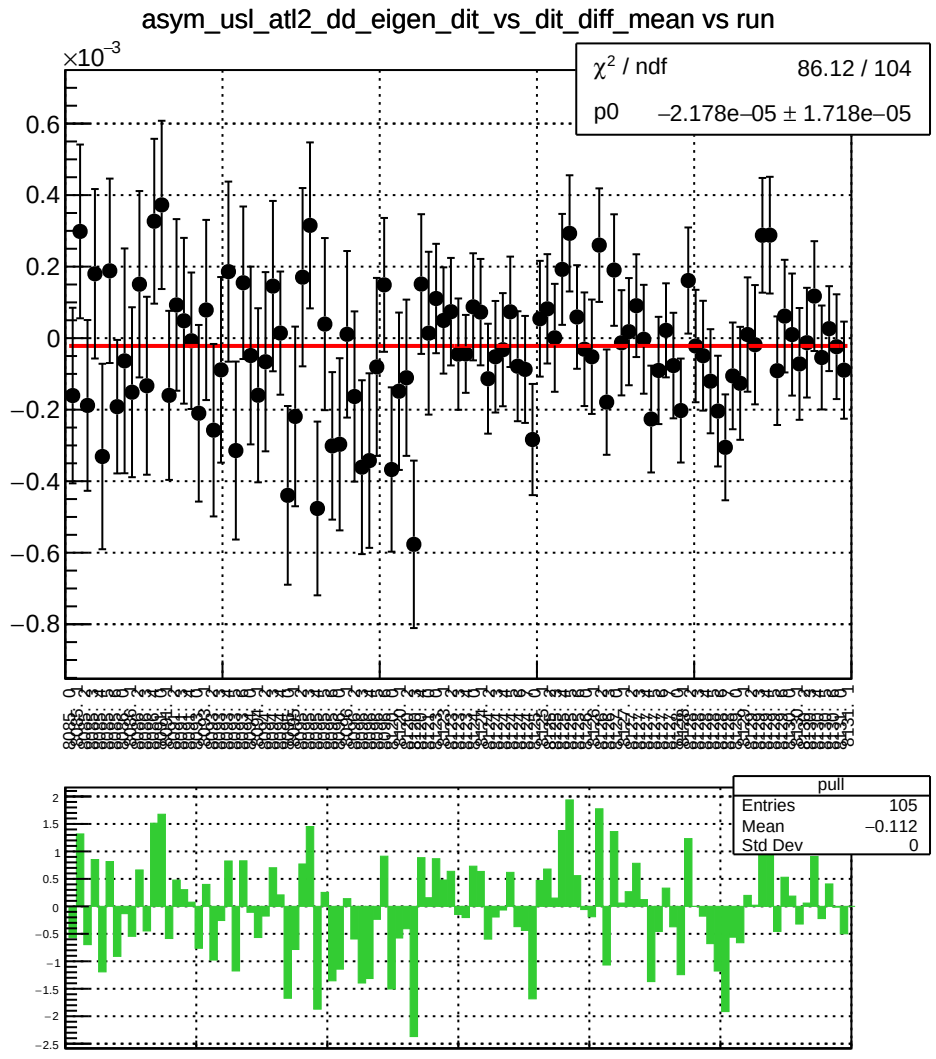

asym_usl_atl2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 107.1 / 105
p0 −0.05204 ± 0.1089
pull
Entries 106
Mean 31.22
Std Dev 0

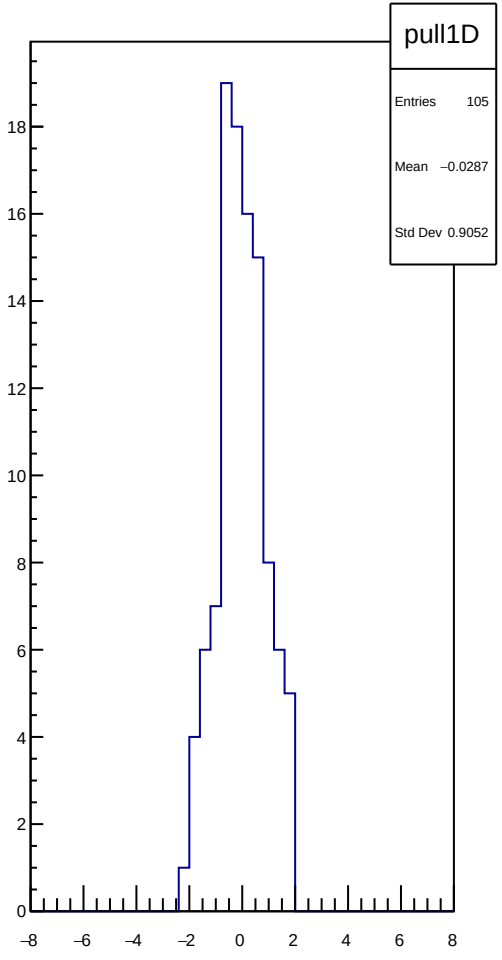

pull1D
Entries 106
Mean −0.01989
Std Dev 1.005

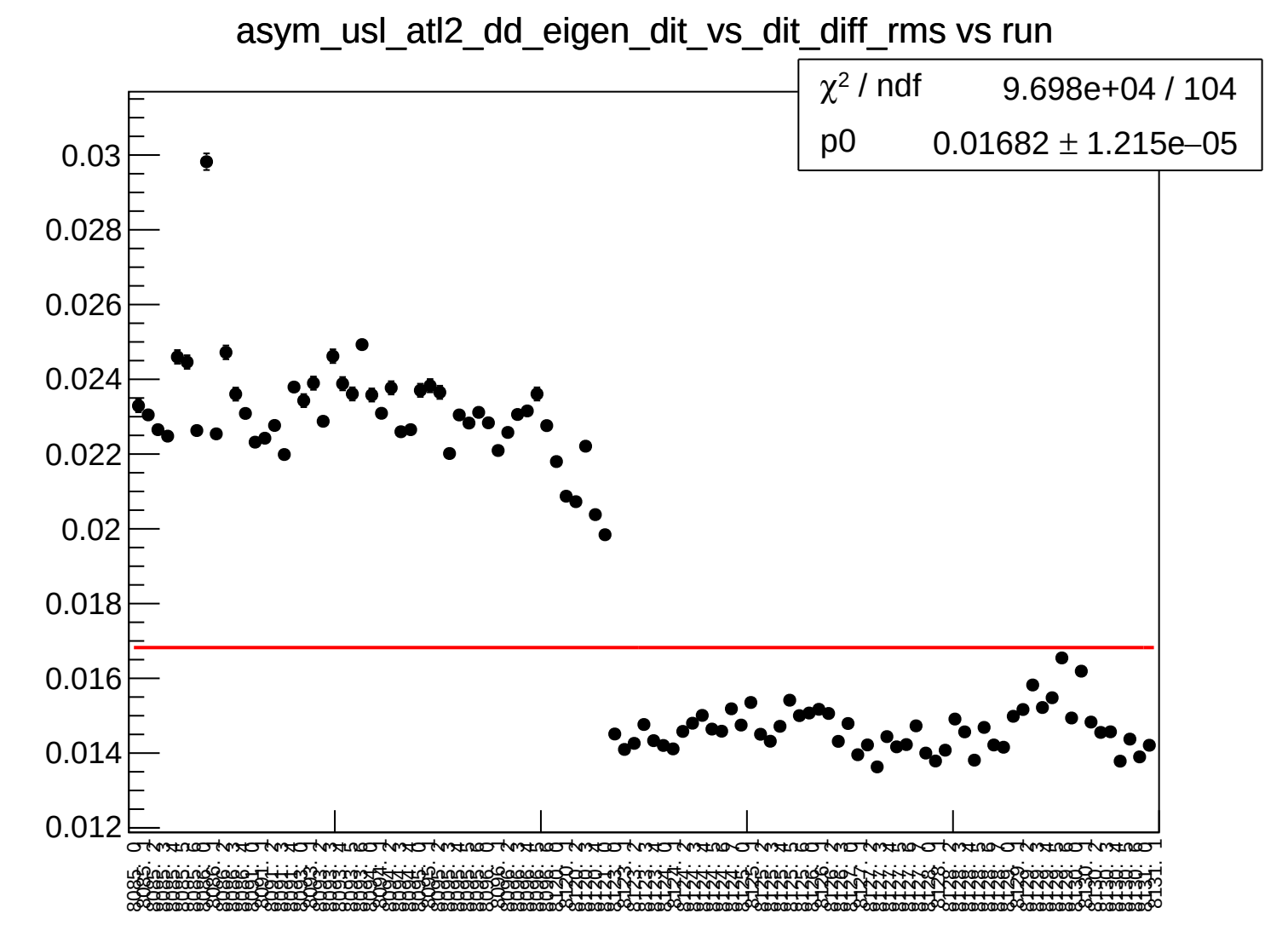

asym_usl_atl2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.751e+05 / 105
p0 104.7 ± 0.07699
1000
900
800
700
600
500
400
300
200
100

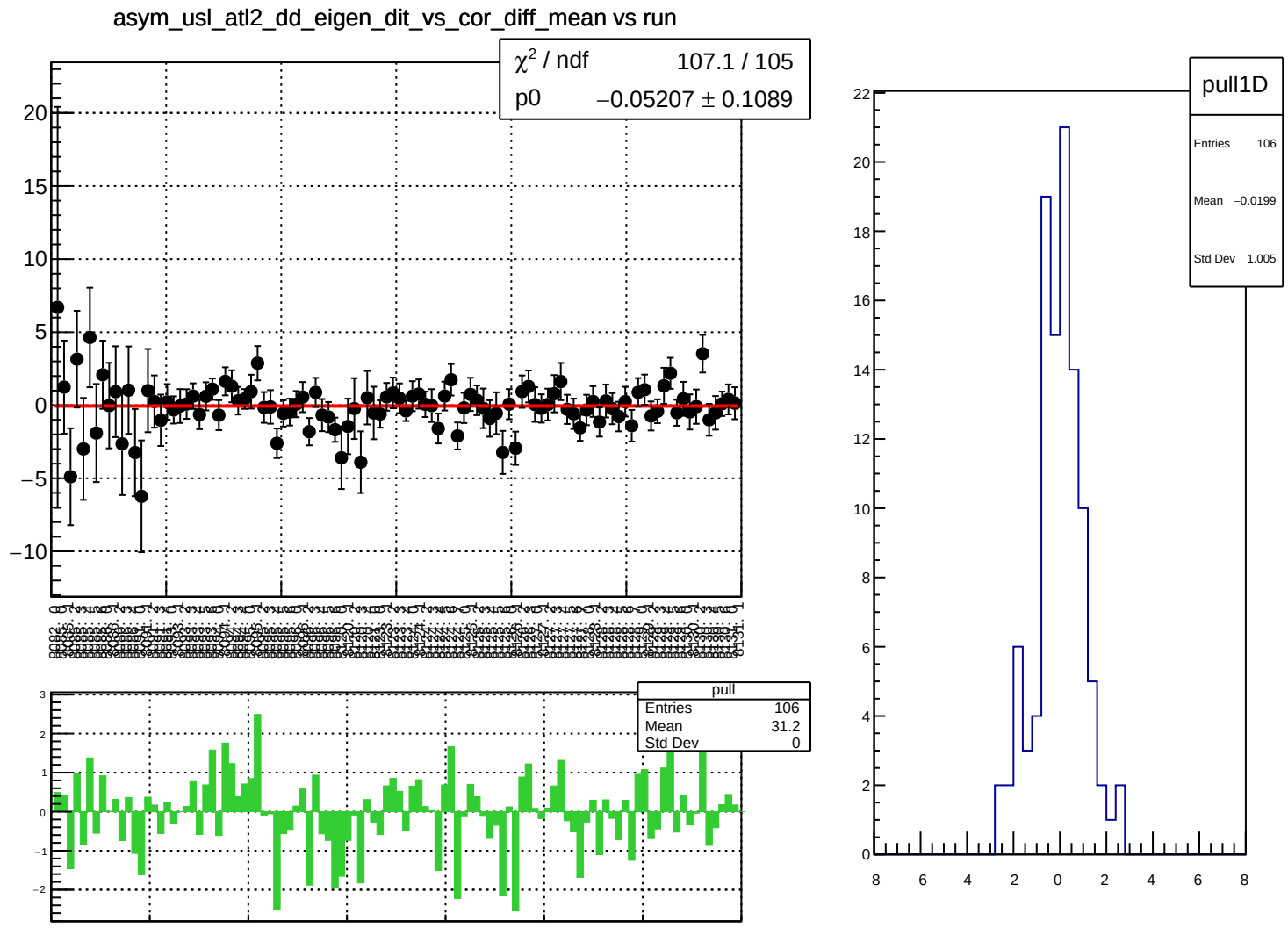

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.1 / 105
p0 −0.05204 ± 0.1089
pull
Entries 106
Mean 31.22
Std Dev 0
pull1D
Entries 106
Mean −0.01989
Std Dev 1.005

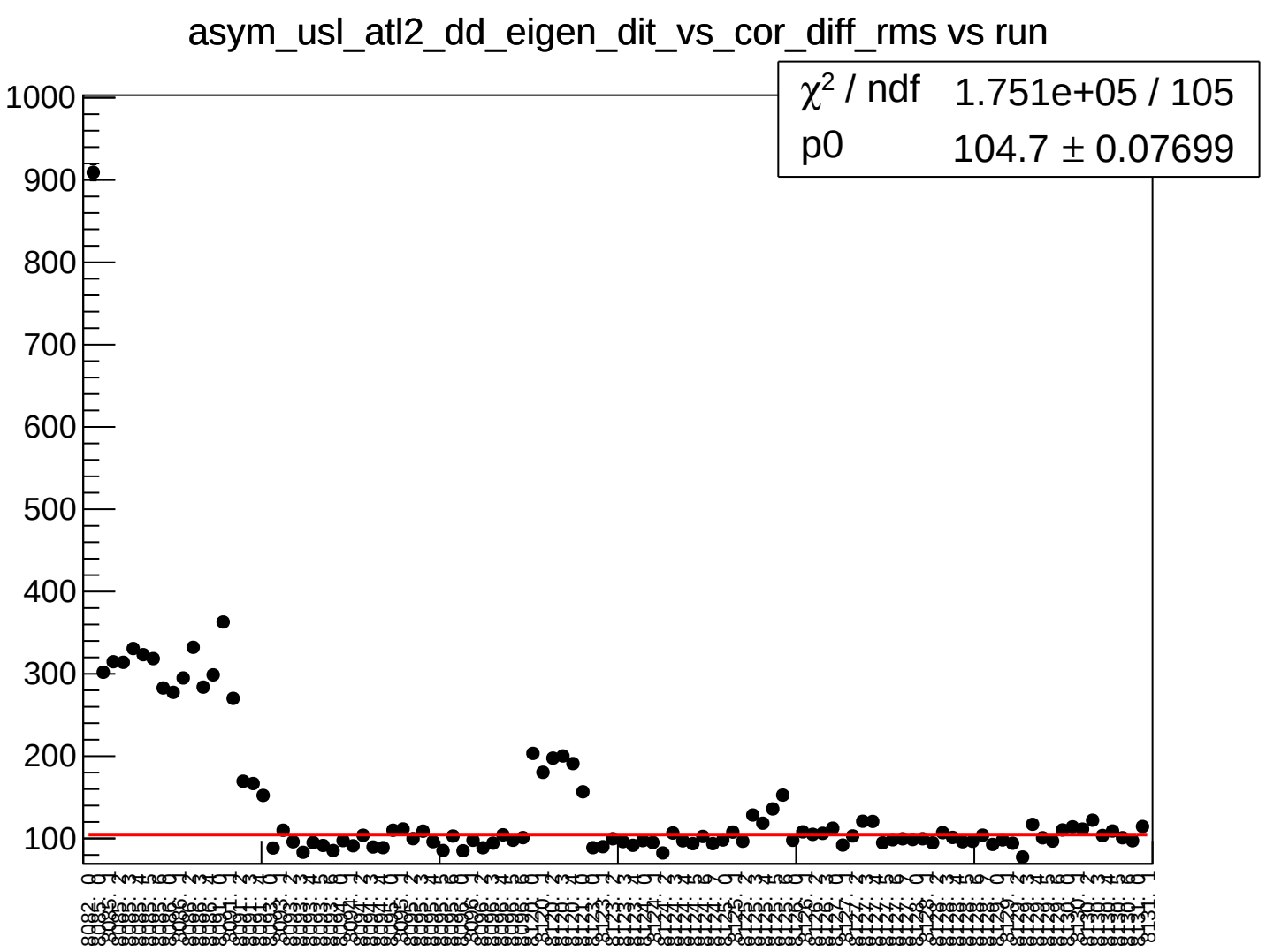

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.751e+05 / 105
p0 104.7 ± 0.07699
1000
900
800
700
600
500
400
300
200
100

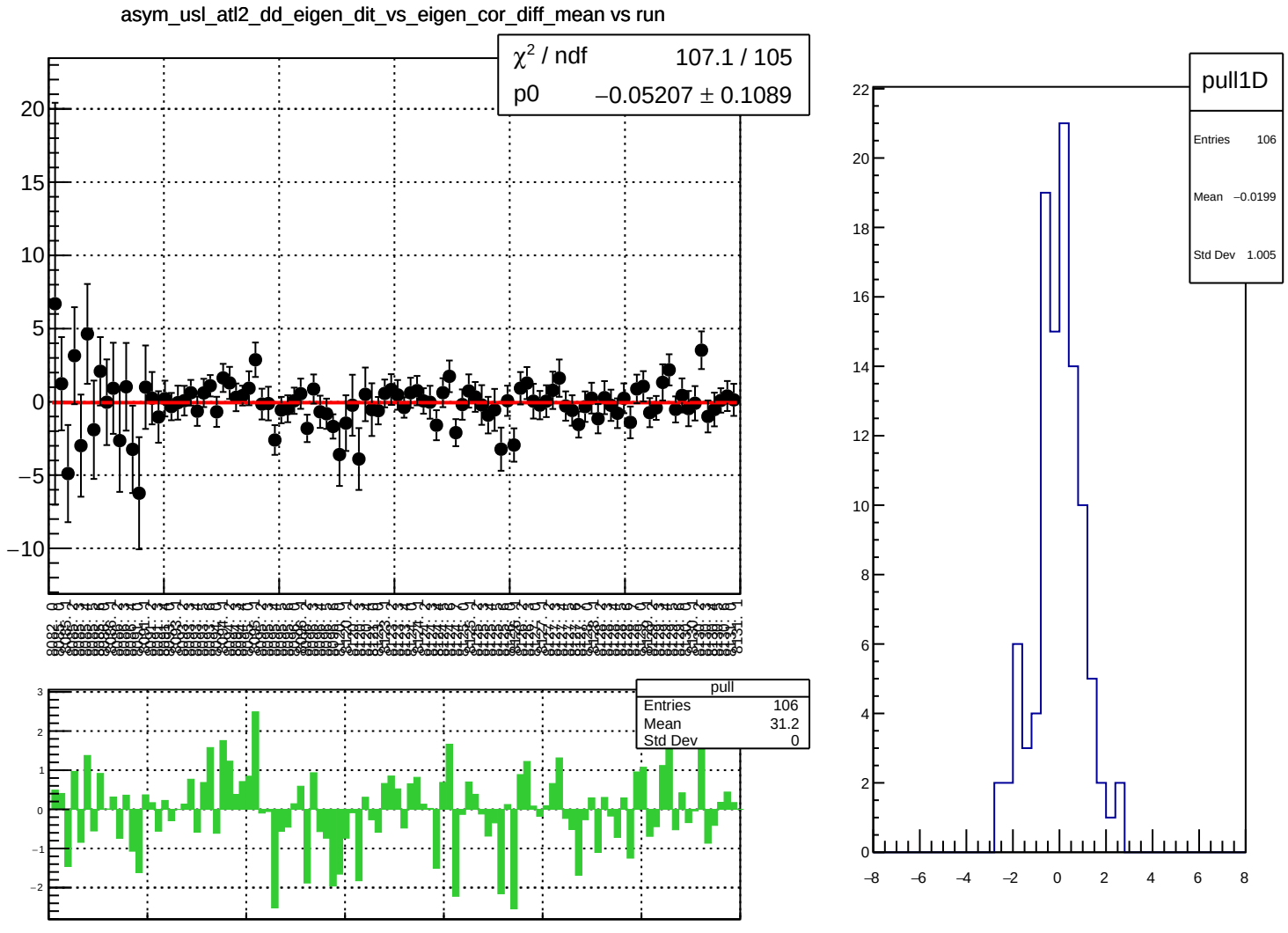

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 86.12 / 104
p0 −2.178e−05 ± 1.718e−05
pull
Entries 105
Mean −0.112
Std Dev 0

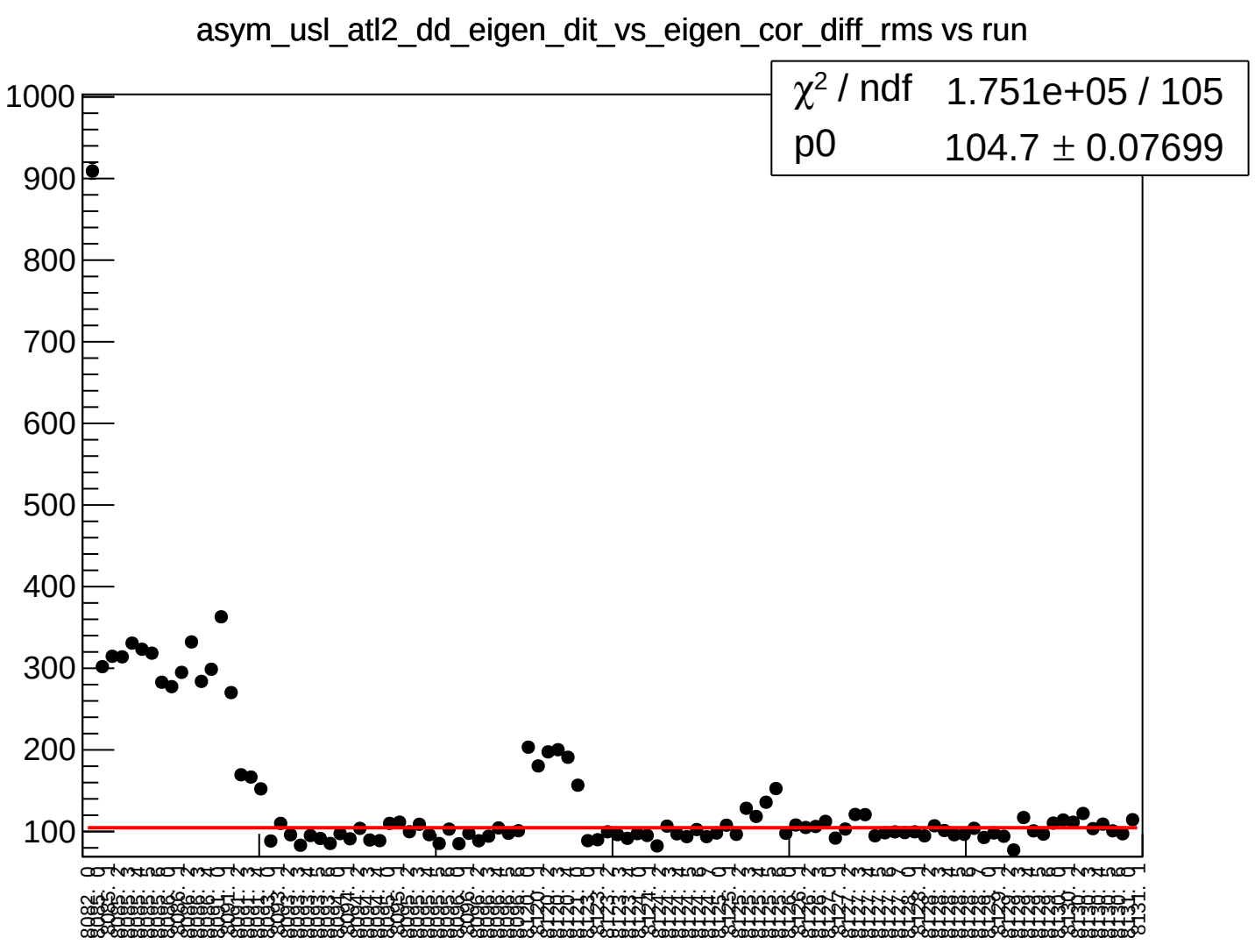

pull1D
Entries 105
Mean −0.0287
Std Dev 0.9052

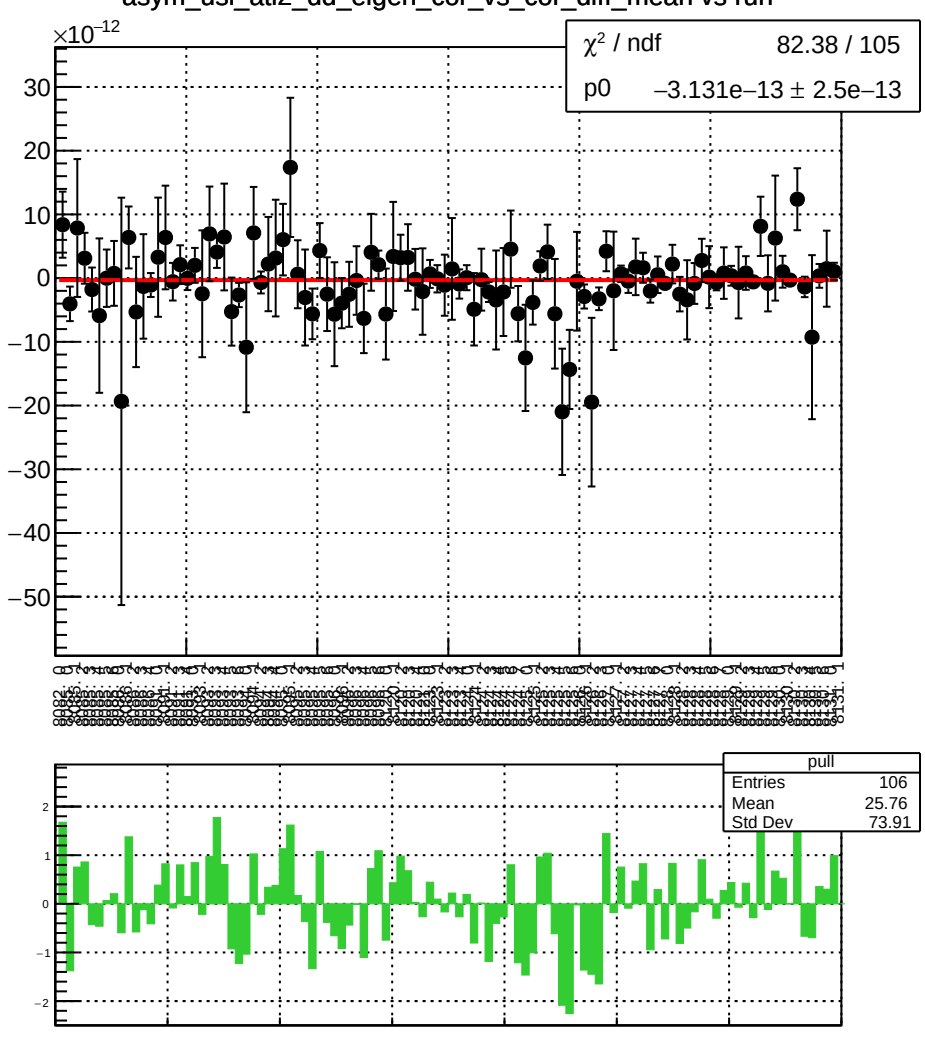

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.698e+04 / 104
p0 0.01682 ± 1.215e−05
0.03
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012

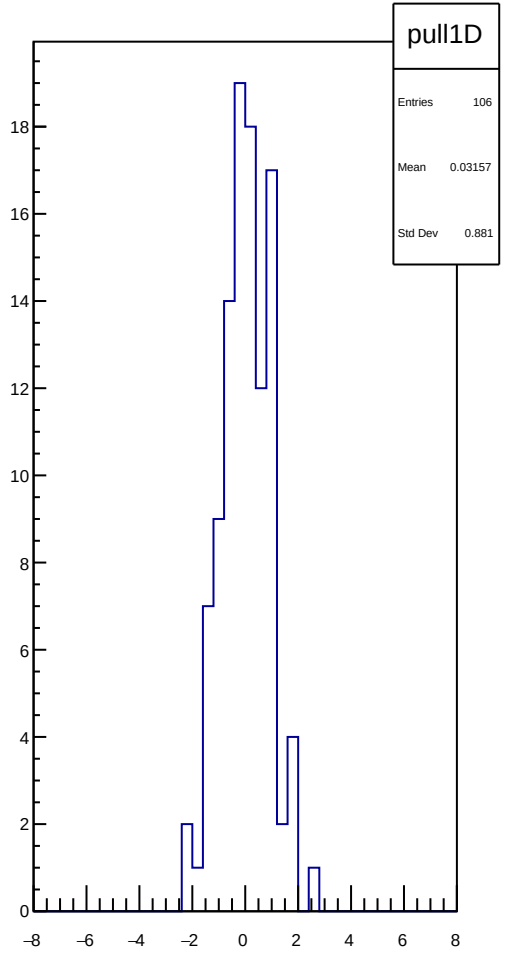

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 107.1 / 105
p0 −0.05207 ± 0.1089
pull
Entries 106
Mean 31.2
Std Dev 0
pull1D
Entries 106
Mean −0.0199
Std Dev 1.005

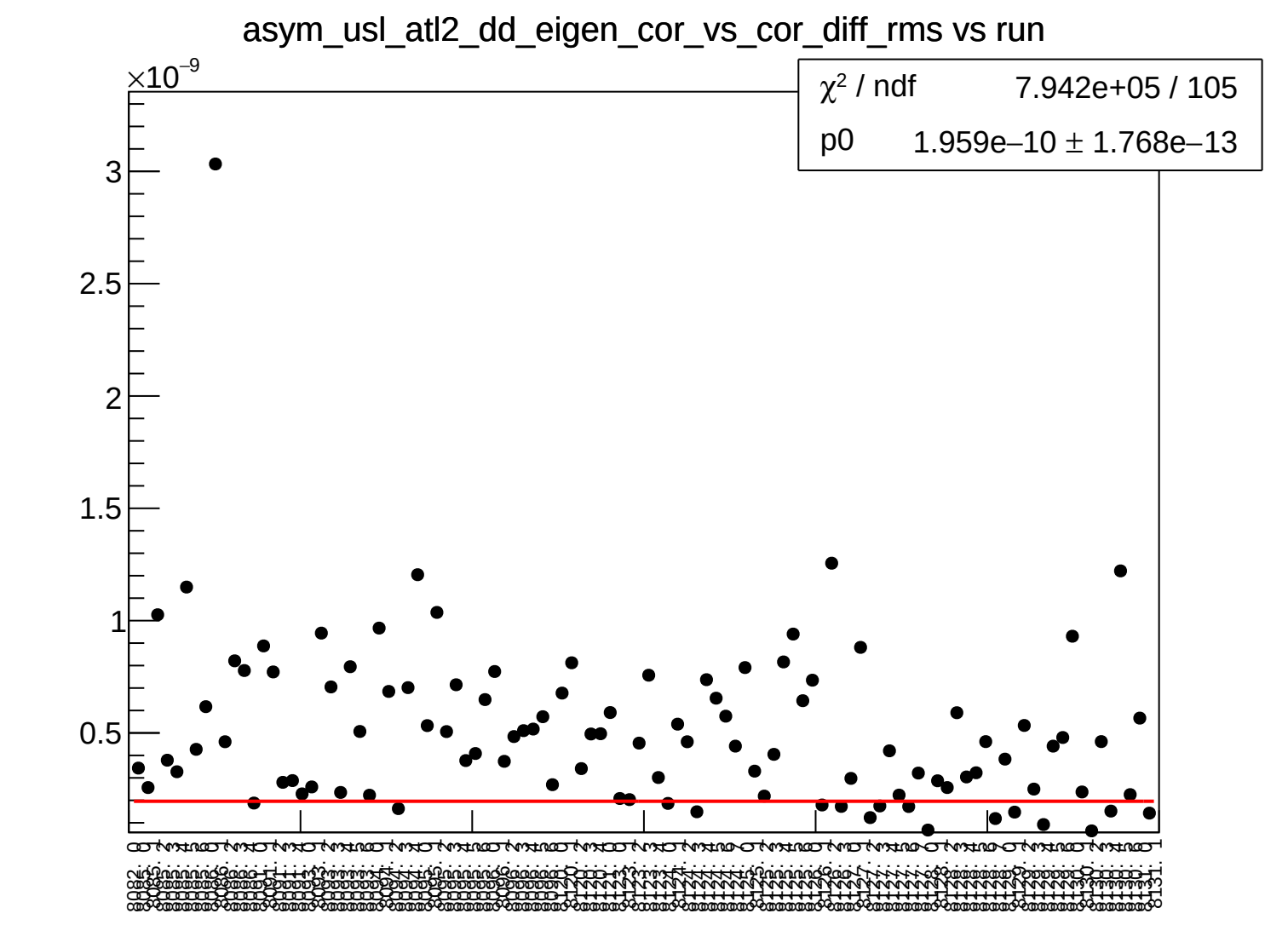

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.751e+05 / 105
p0 104.7 ± 0.07699
1000
900
800
700
600
500
400
300
200
100

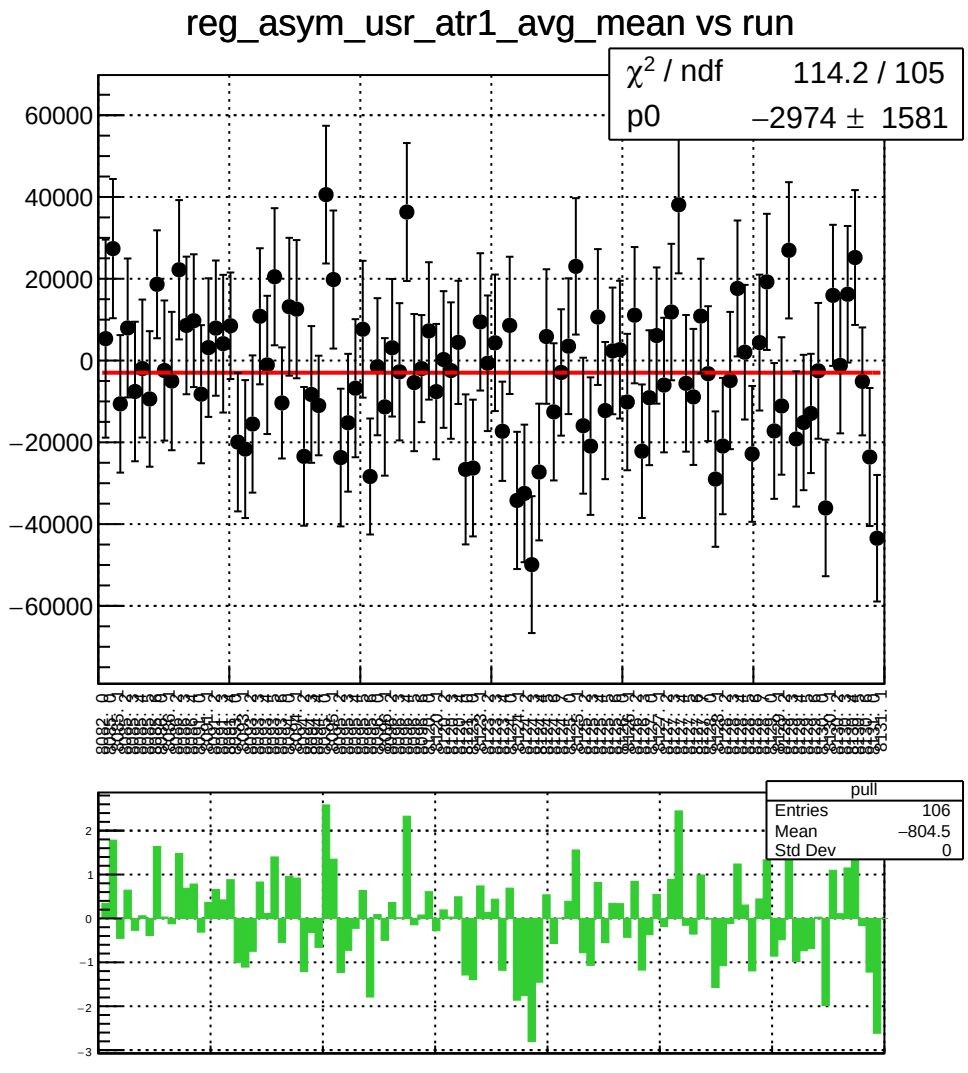

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.1 / 105
p0 −0.05207 ± 0.1089
pull
Entries 106
Mean 31.2
Std Dev 0
pull1D
Entries 106
Mean −0.0199
Std Dev 1.005

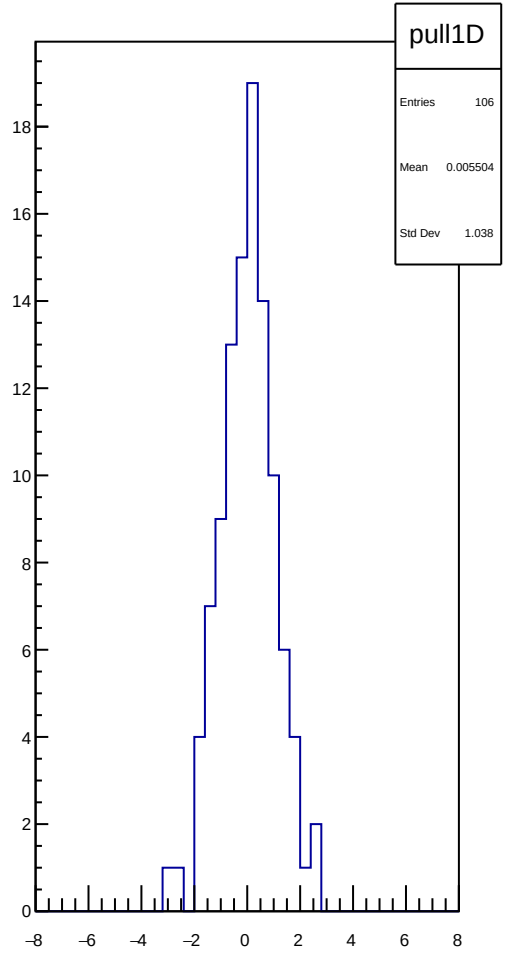

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.751e+05 / 105
p0 104.7 ± 0.07699
1000
900
800
700
600
500
400
300
200
100

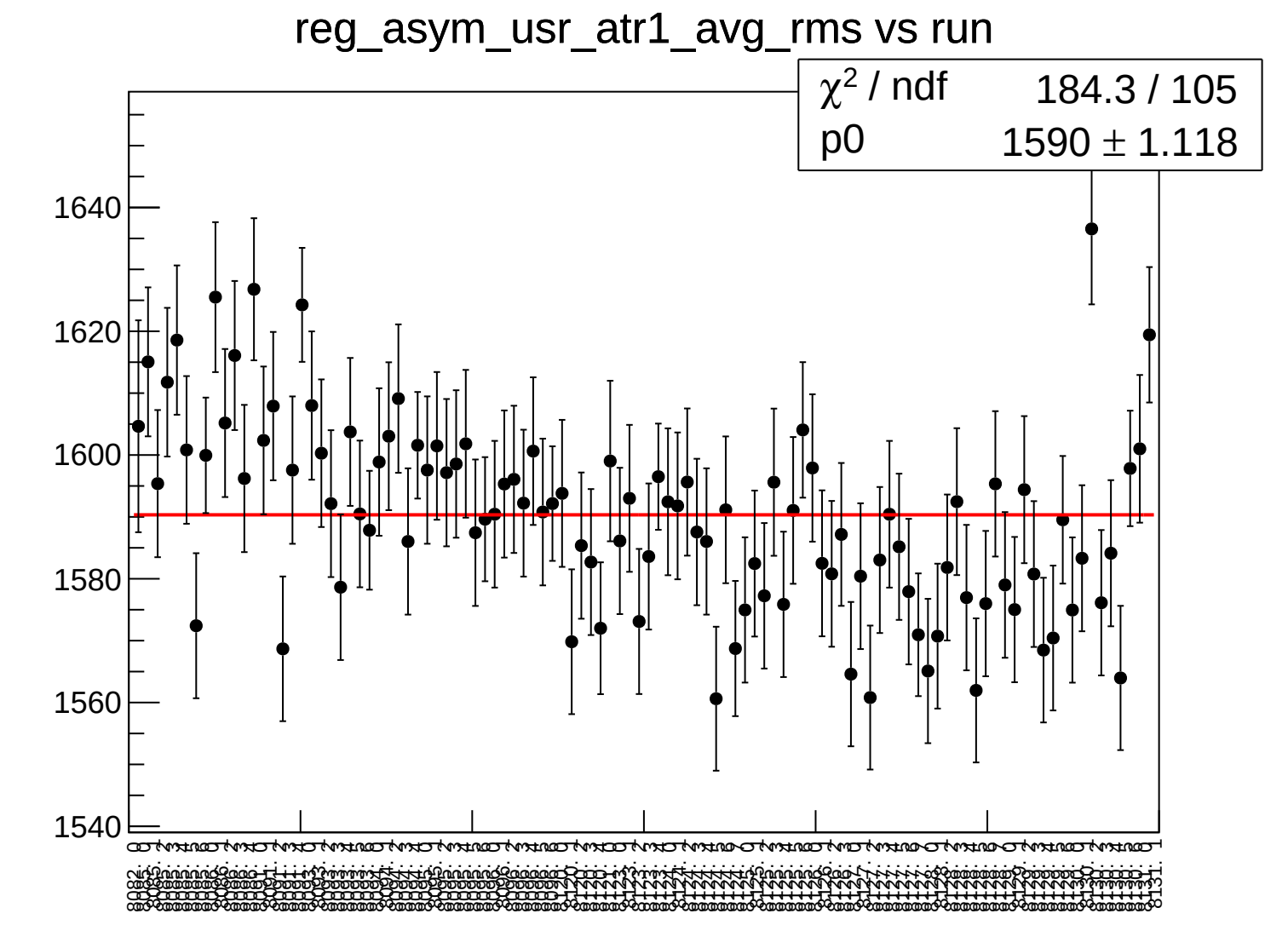

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.38 / 105
p0 −3.131e−13 ± 2.5e−13
pull
Entries 106
Mean 25.76
Std Dev 73.91

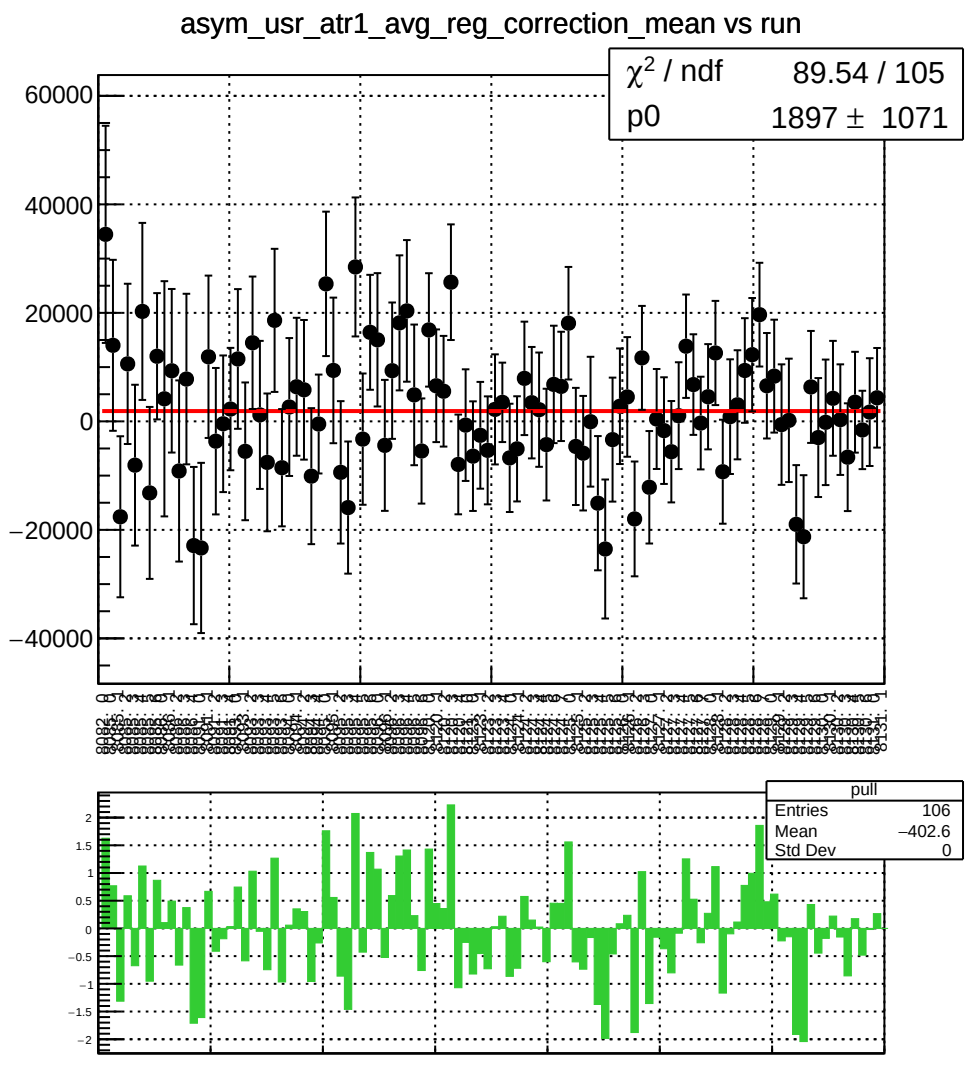

pull1D
Entries 106
Mean 0.03157
Std Dev 0.881

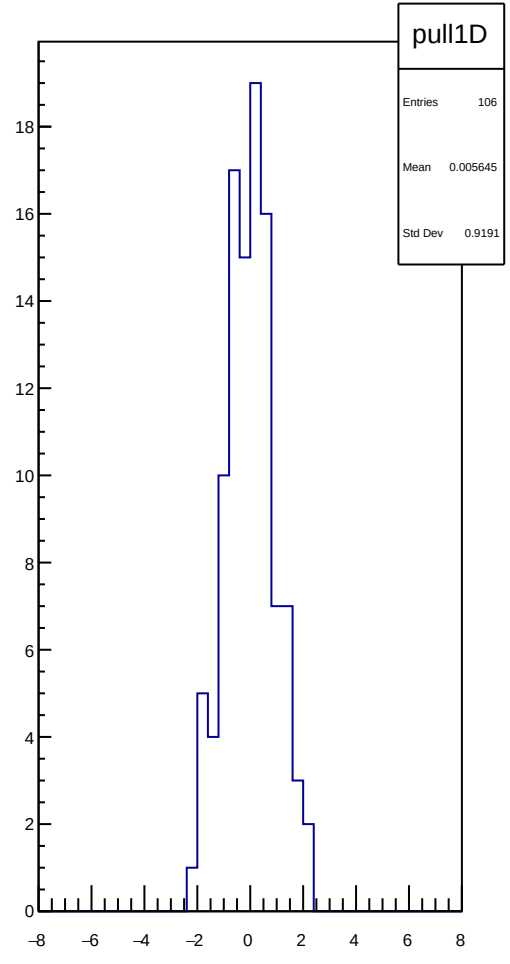

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.942e+05 / 105
p0 1.959e−10 ± 1.768e−13
3
2.5
2
1.5
1
0.5

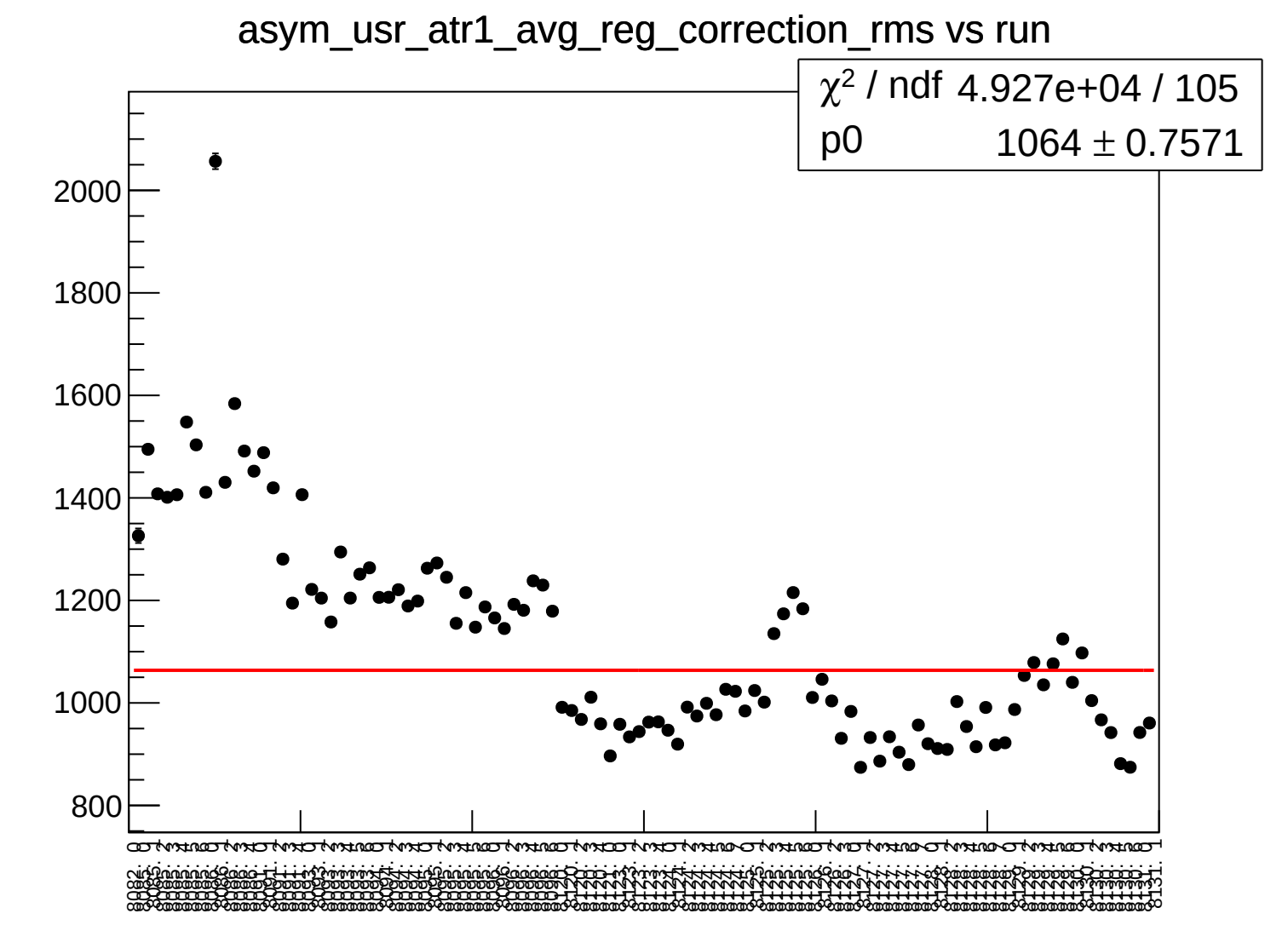

reg_asym_usr_atr1_avg_mean vs run
χ² / ndf 114.2 / 105
p0 −2974 ± 1581
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean −804.5
Std Dev 0
2
1
0
−1
−2
−3

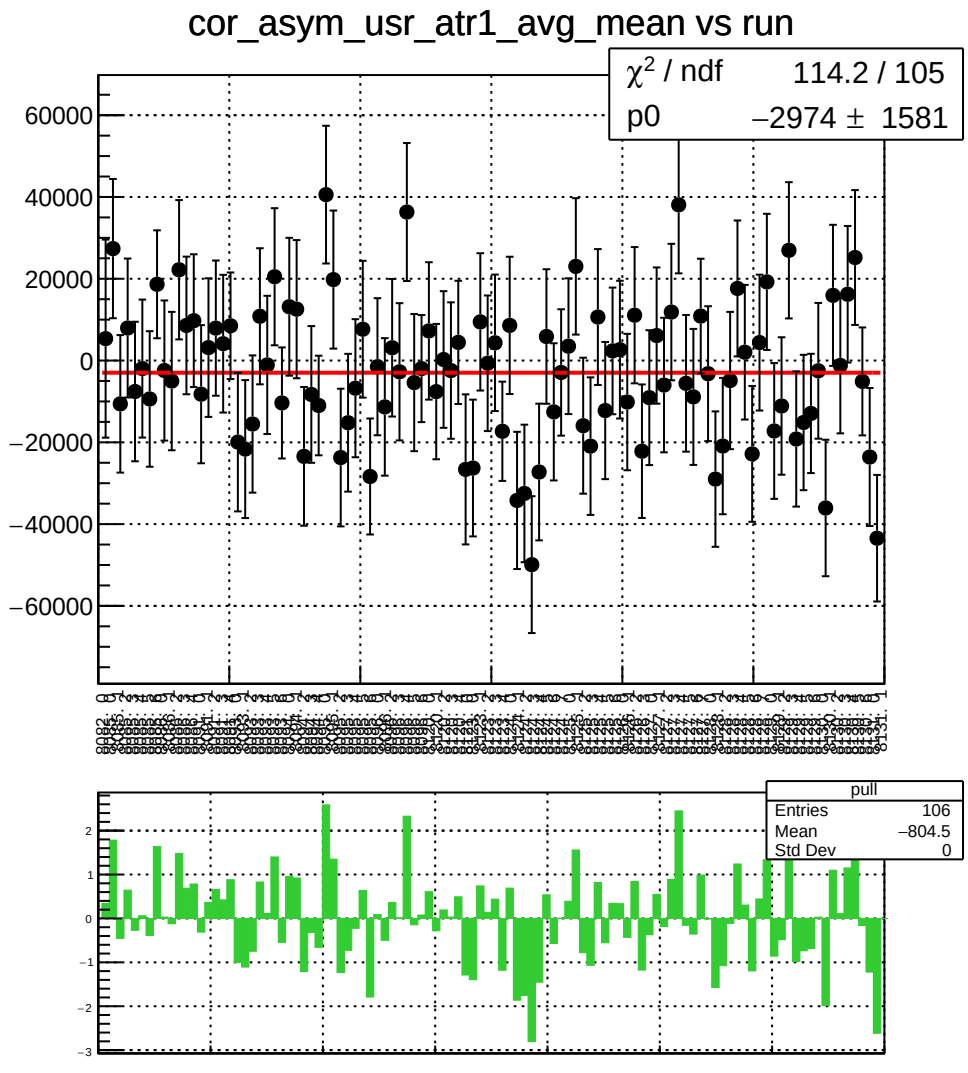

pull1D
Entries 106
Mean 0.005504
Std Dev 1.038
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

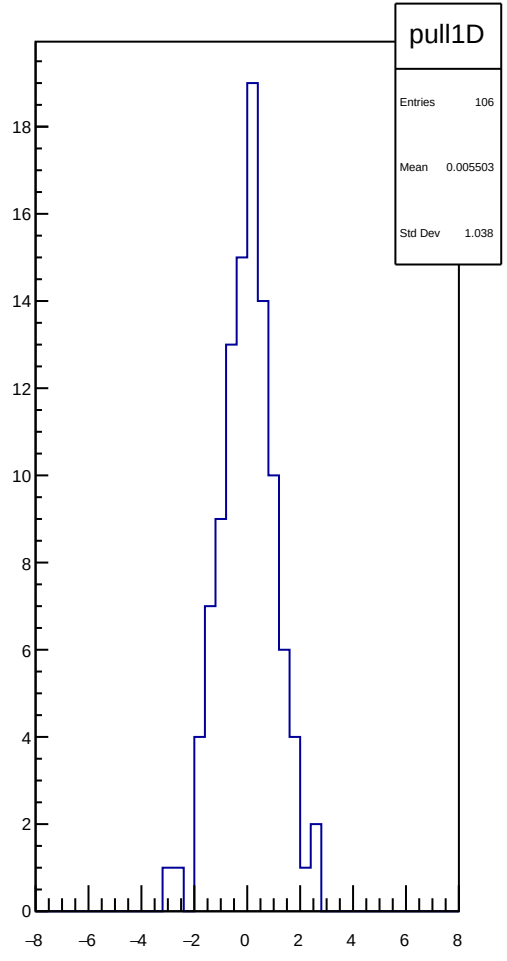

reg_asym_usr_atr1_avg_rms vs run
χ² / ndf 184.3 / 105
p0 1590 ± 1.118
1640
1620
1600
1580
1560
1540

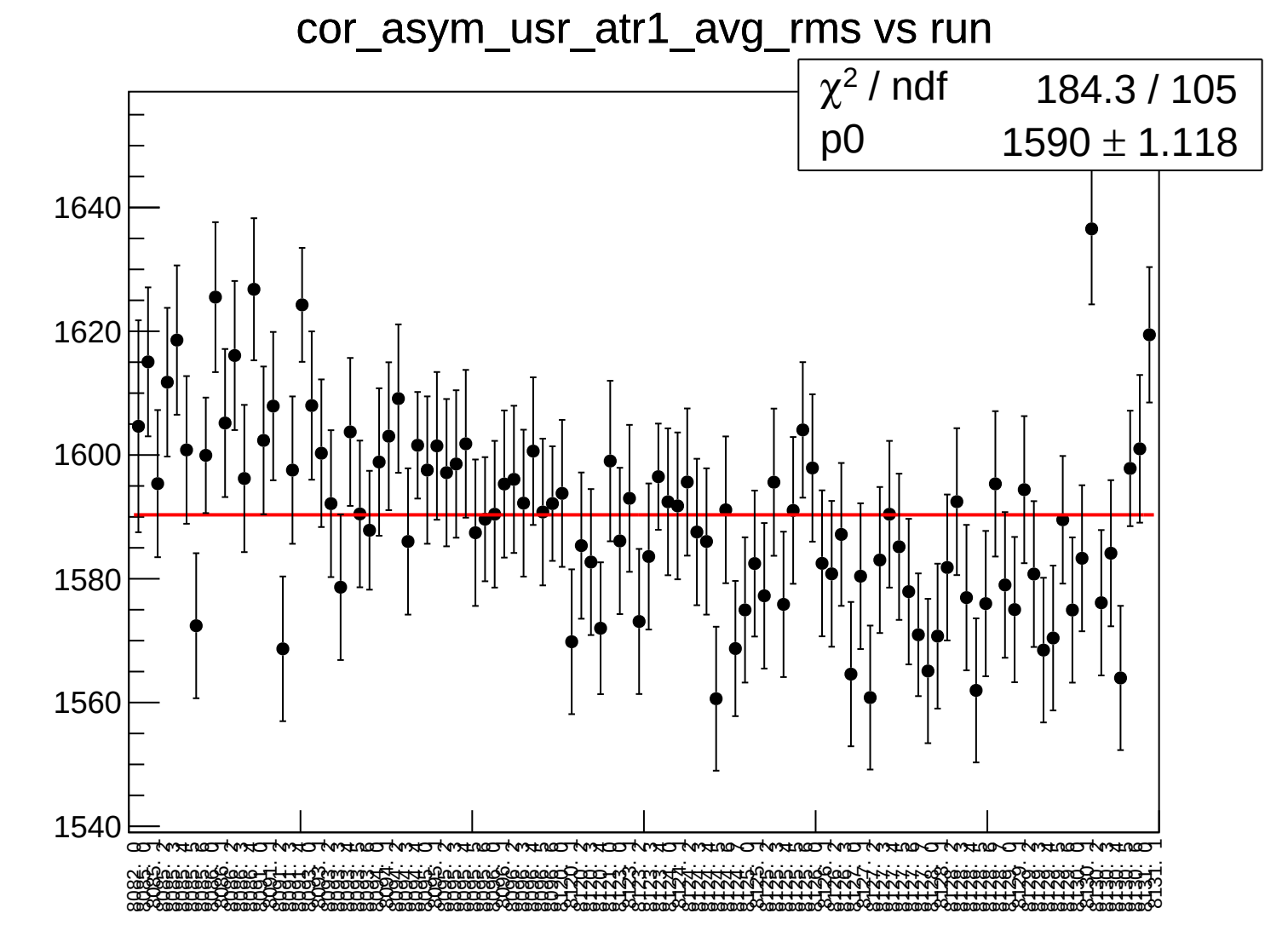

asym_usr_atr1_avg_reg_correction_mean vs run
χ² / ndf 89.54 / 105
p0 1897 ± 1071
60000
40000
20000
0
−20000
−40000
pull
Entries 106
Mean −402.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

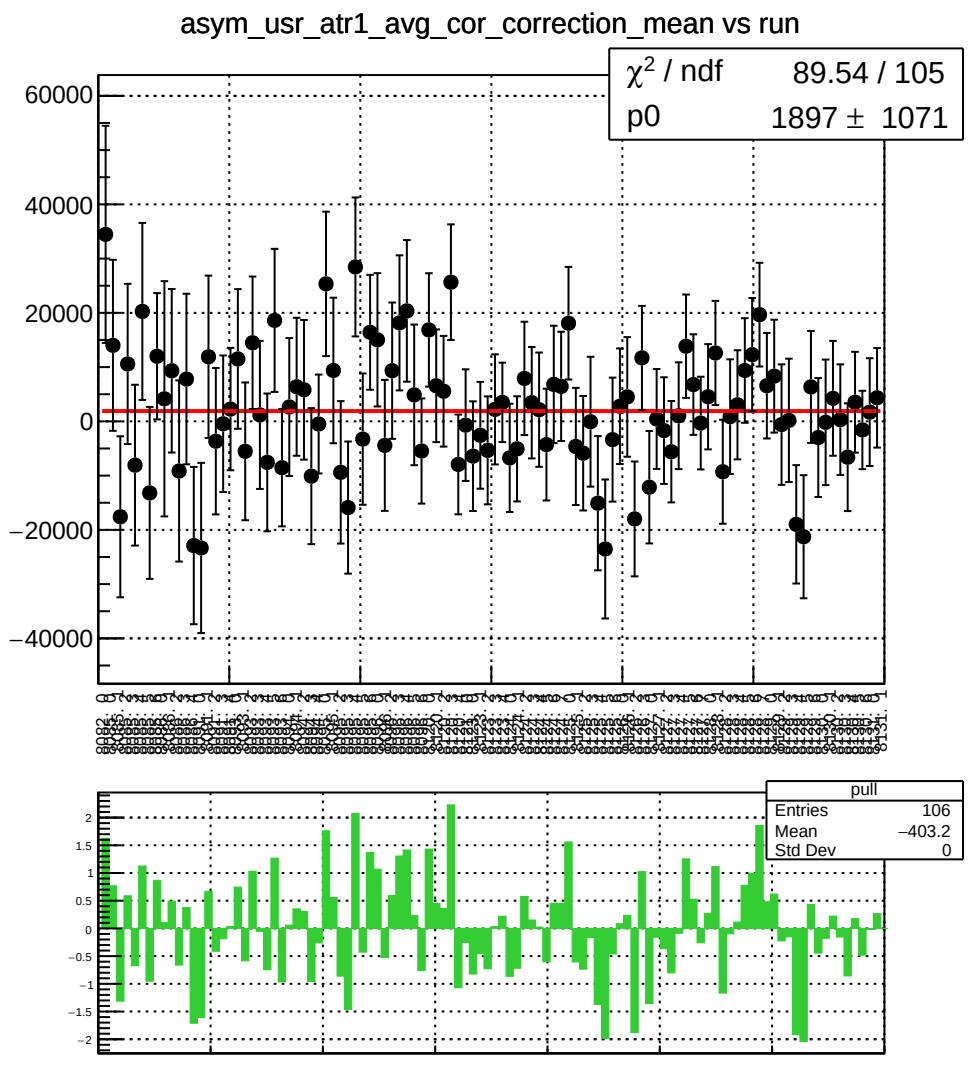

pull1D
Entries 106
Mean 0.005645
Std Dev 0.9191
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

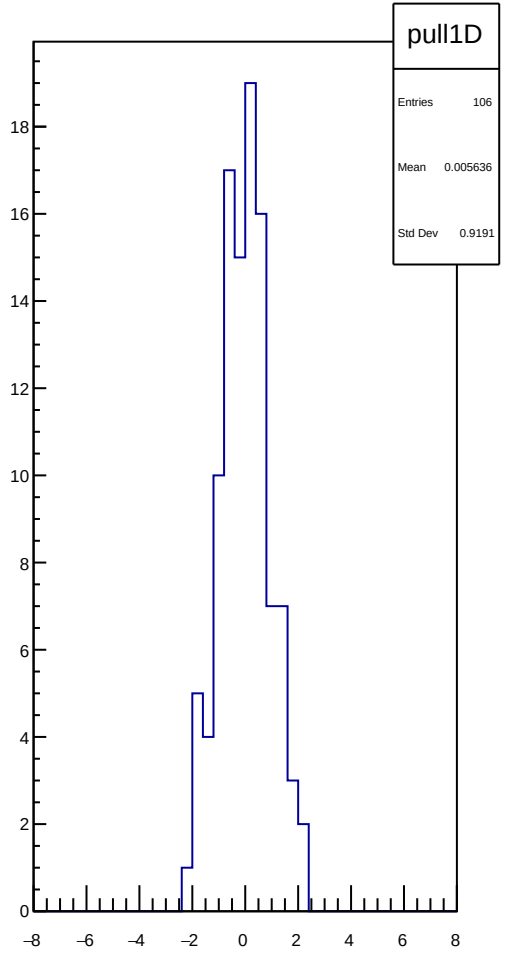

asym_usr_atr1_avg_reg_correction_rms vs run
χ² / ndf 4.927e+04 / 105
p0 1064 ± 0.7571
2000
1800
1600
1400
1200
1000
800

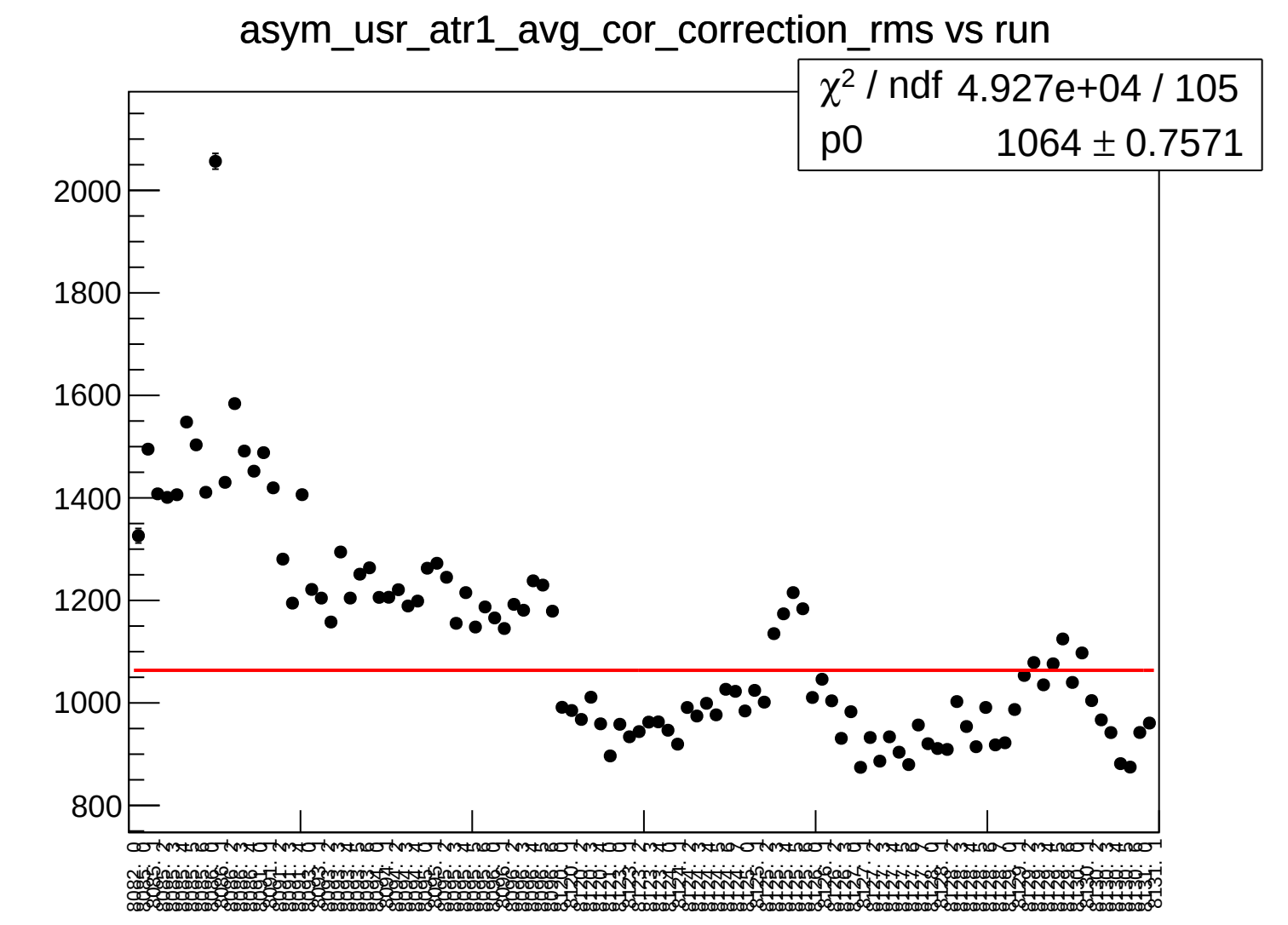

cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 114.2 / 105
p0 −2974 ± 1581
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean −804.5
Std Dev 0
2
1
0
−1
−2
−3

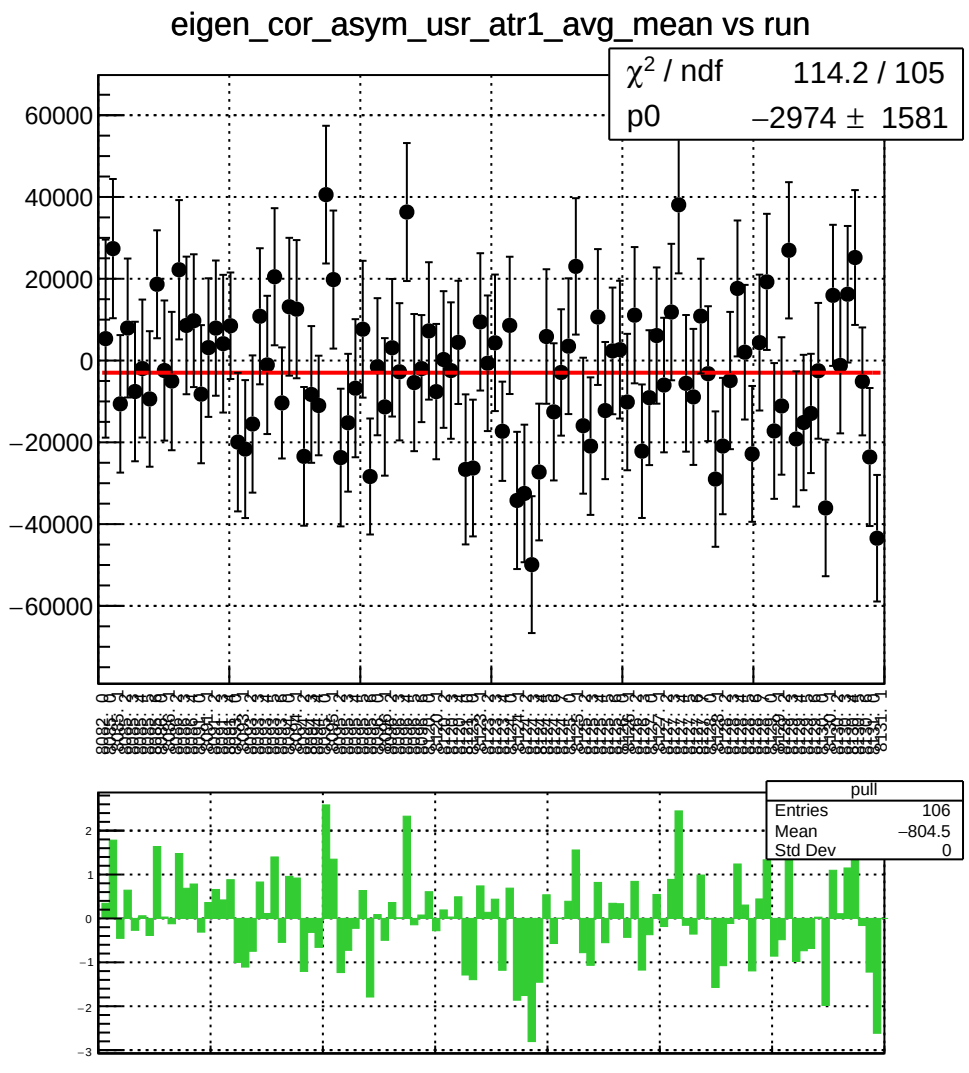

pull1D
Entries 106
Mean 0.005503
Std Dev 1.038
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

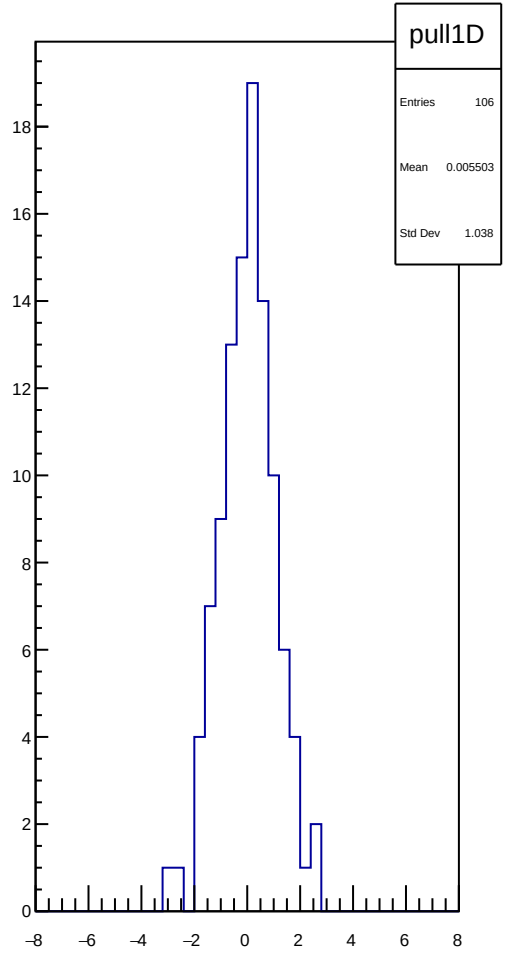

cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 184.3 / 105
p0 1590 ± 1.118
1640
1620
1600
1580
1560
1540

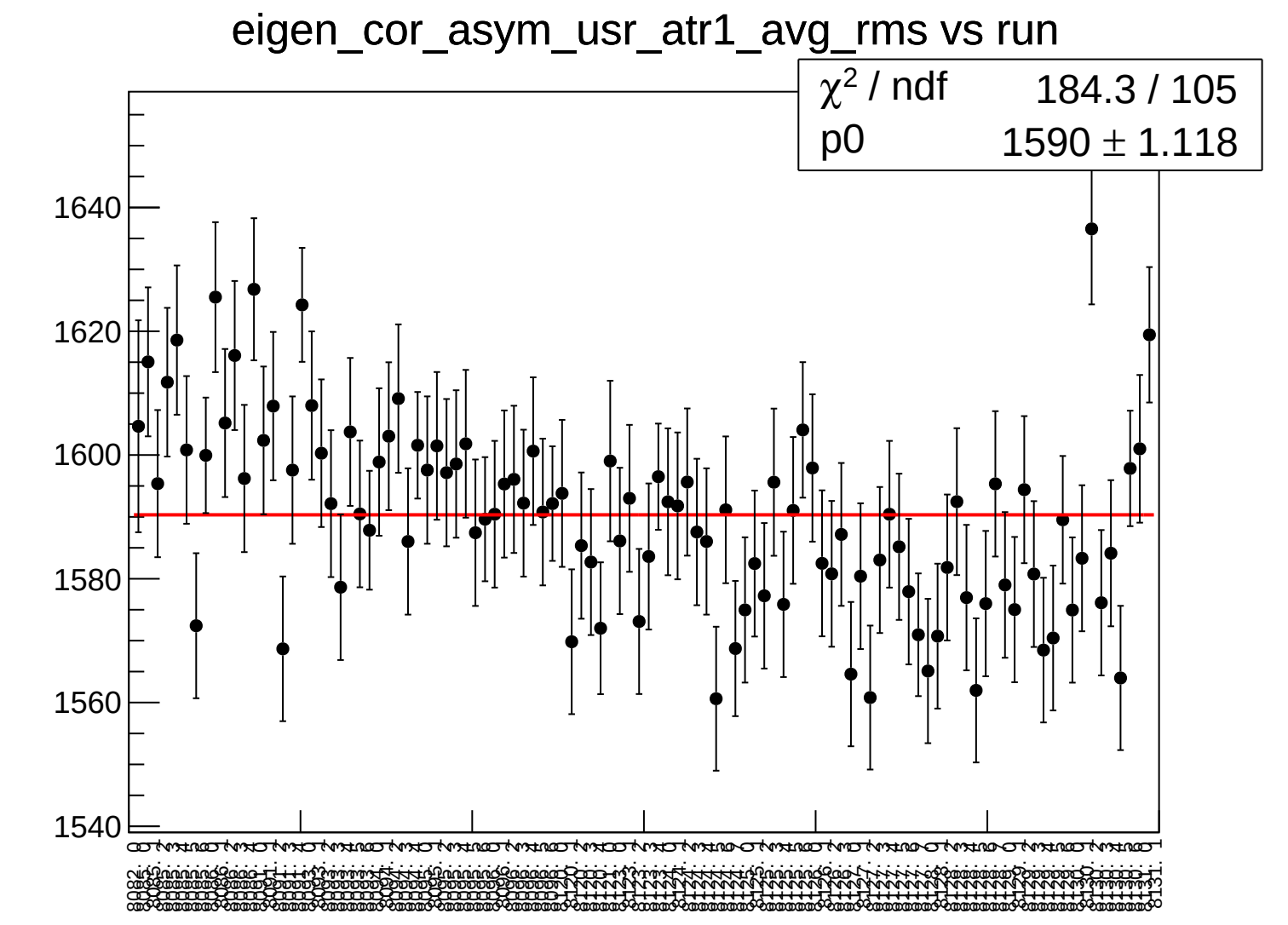

asym_usr_atr1_avg_cor_correction_mean vs run
χ² / ndf 89.54 / 105
p0 1897 ± 1071
60000
40000
20000
0
−20000
−40000
pull
Entries 106
Mean −403.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

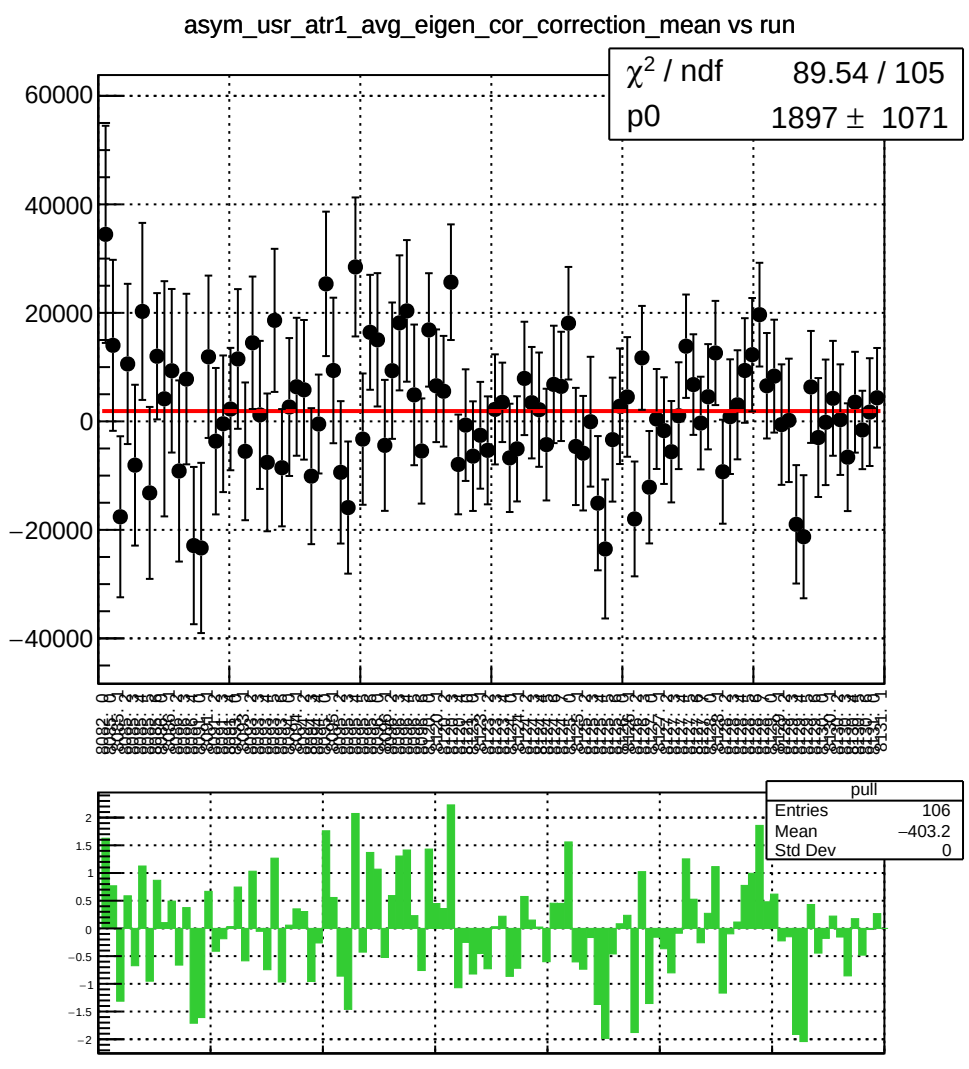

pull1D
Entries 106
Mean 0.005636
Std Dev 0.9191
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

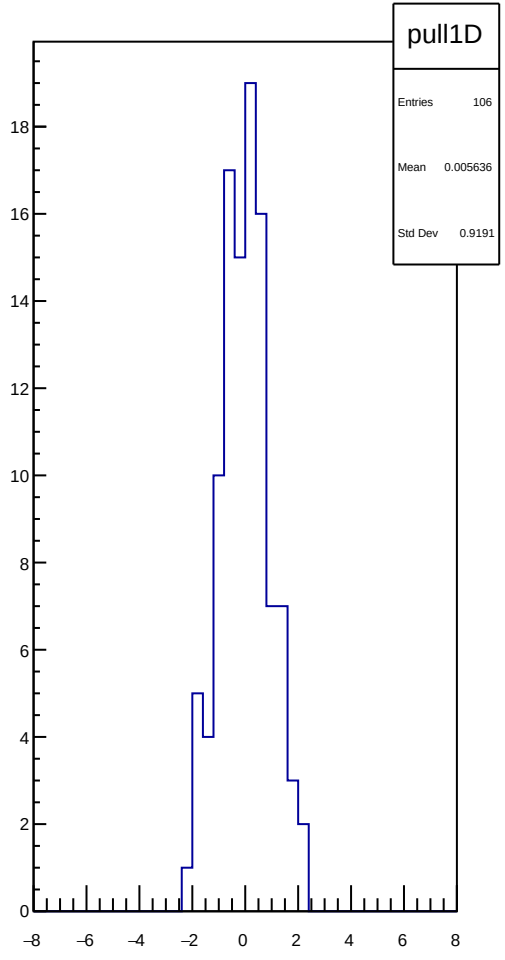

asym_usr_atr1_avg_cor_correction_rms vs run
χ² / ndf 4.927e+04 / 105
p0 1064 ± 0.7571
2000
1800
1600
1400
1200
1000
800

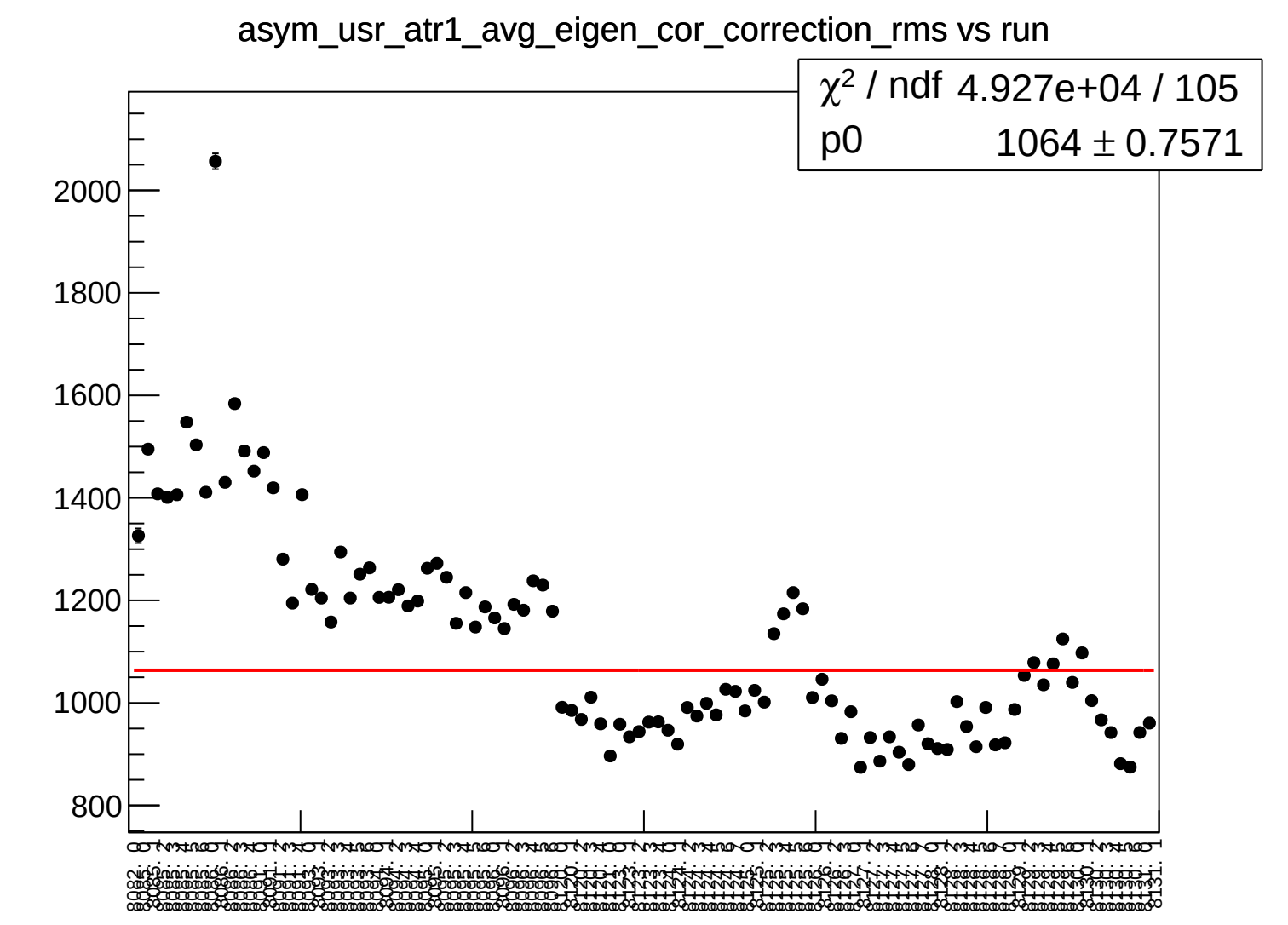

eigen_cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 114.2 / 105
p0 −2974 ± 1581
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean −804.5
Std Dev 0
2
1
0
−1
−2
−3

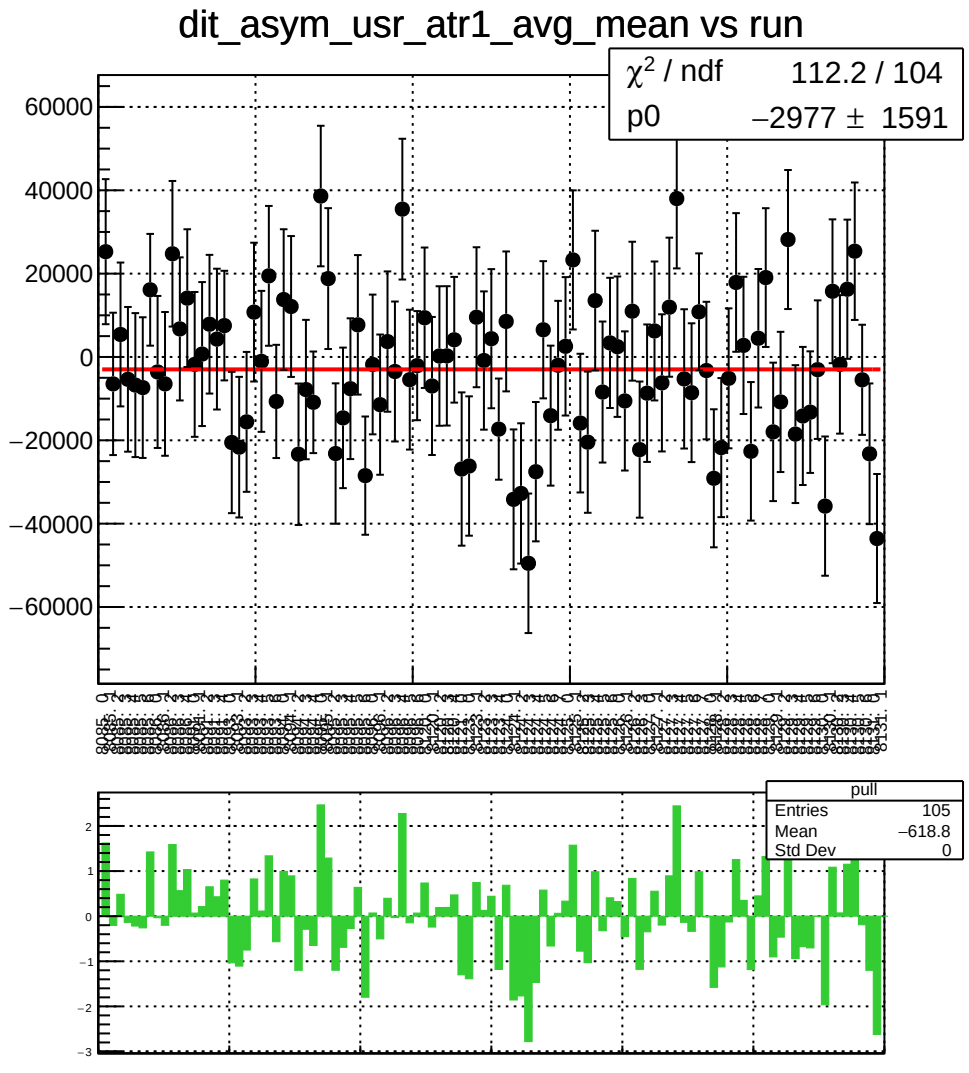

pull1D
Entries 106
Mean 0.005503
Std Dev 1.038
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

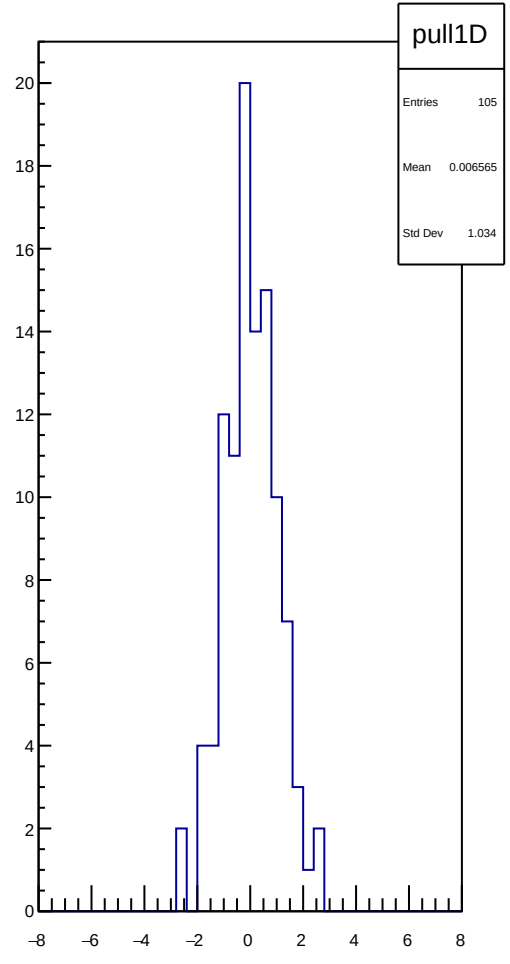

eigen_cor_asym_usr_atr1_avg_rms vs run
$\chi^2$ / ndf 184.3 / 105
p0 1590 ± 1.118
1640
1620
1600
1580
1560
1540

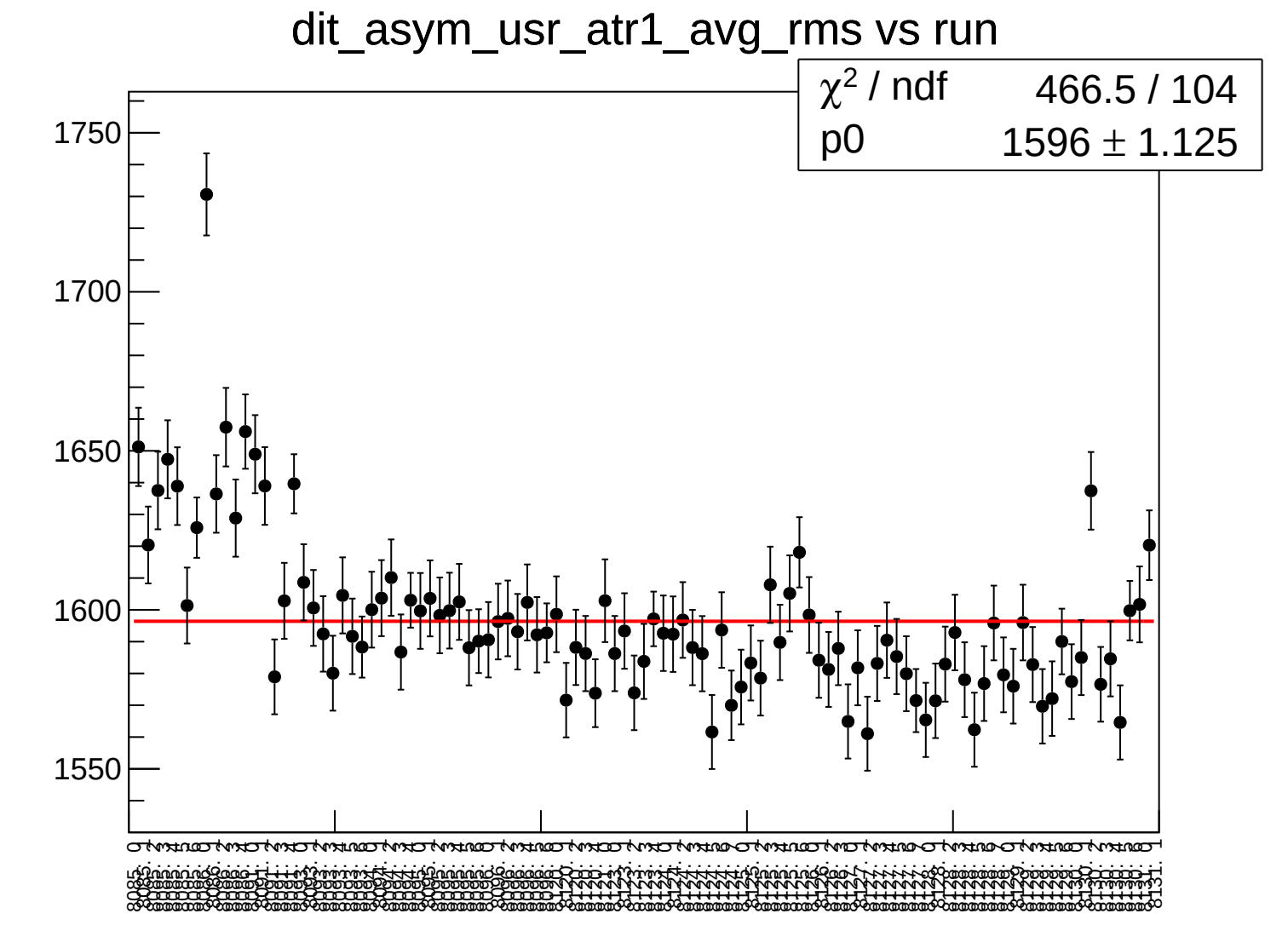

asym_usr_atr1_avg_eigen_cor_correction_mean vs run
χ² / ndf 89.54 / 105
p0 1897 ± 1071
60000
40000
20000
0
−20000
−40000
pull
Entries 106
Mean −403.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

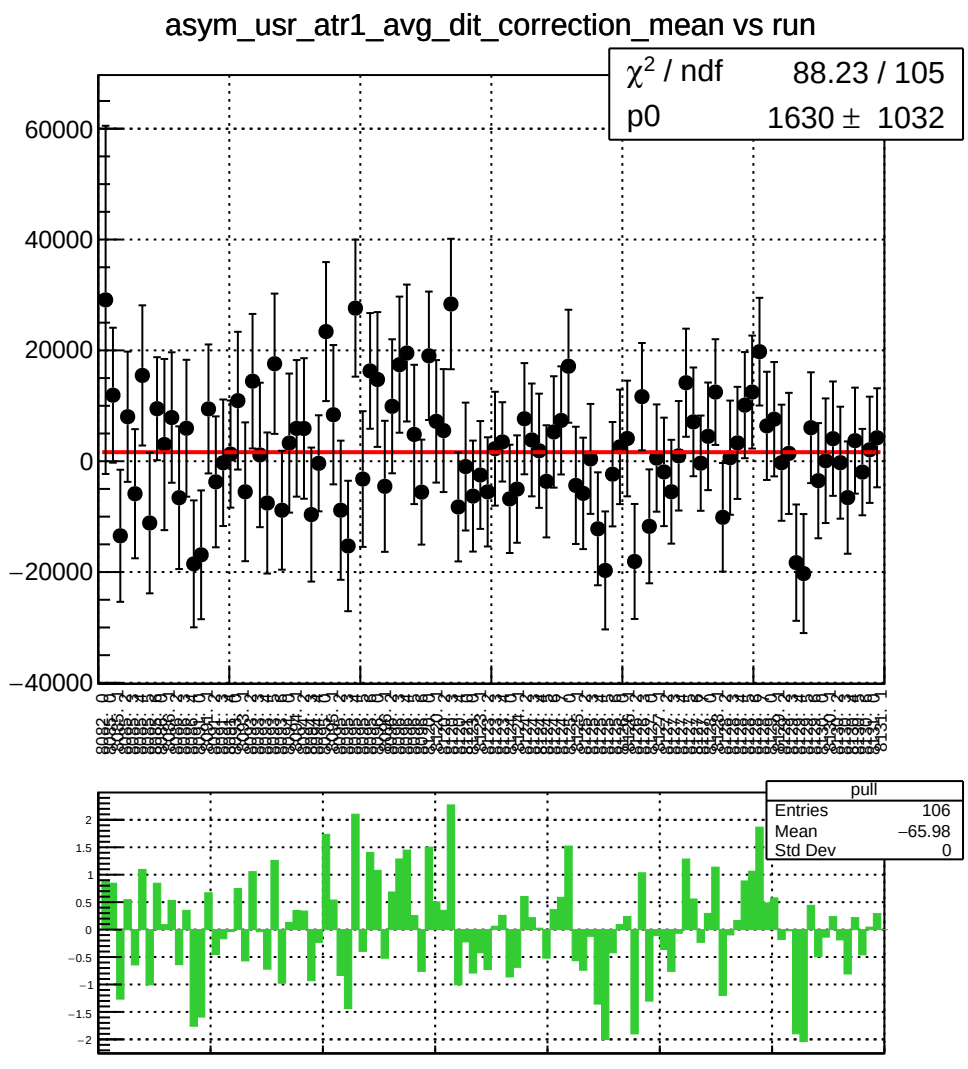

pull1D
Entries 106
Mean 0.005636
Std Dev 0.9191
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

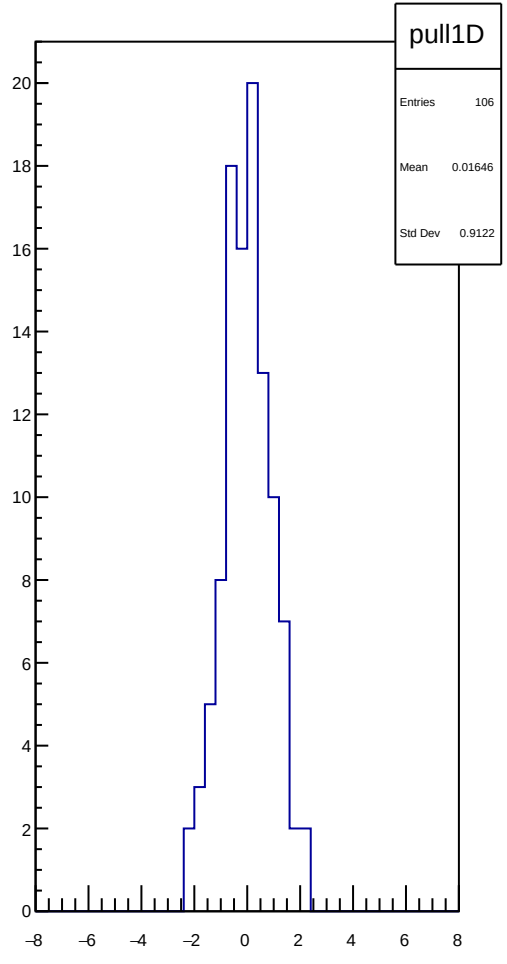

asym_usr_atr1_avg_eigen_cor_correction_rms vs run
χ² / ndf 4.927e+04 / 105
p0 1064 ± 0.7571
2000
1800
1600
1400
1200
1000
800

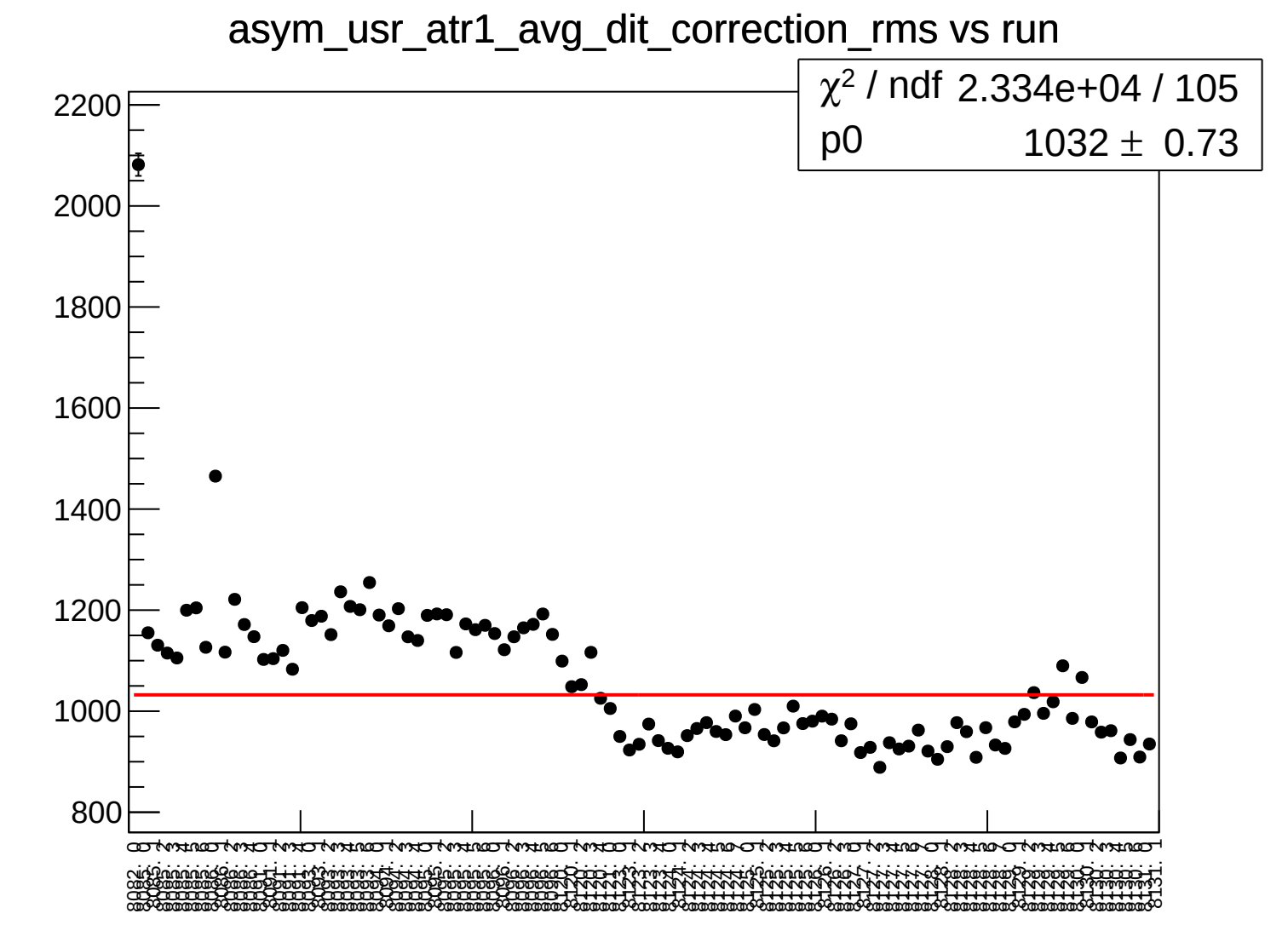

dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 112.2 / 104
p0 −2977 ± 1591
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean −618.8
Std Dev 0
2
1
0
−1
−2
−3

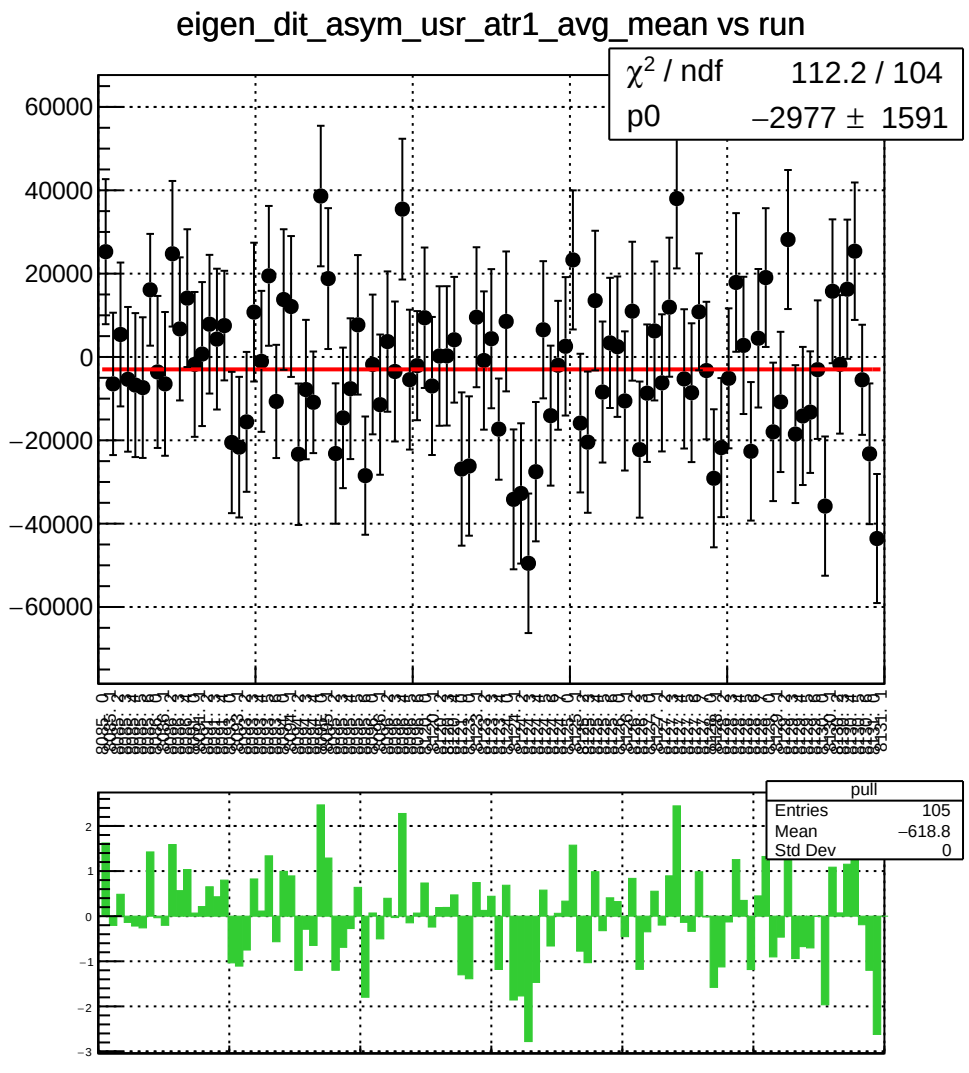

pull1D
Entries 105
Mean 0.006565
Std Dev 1.034
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

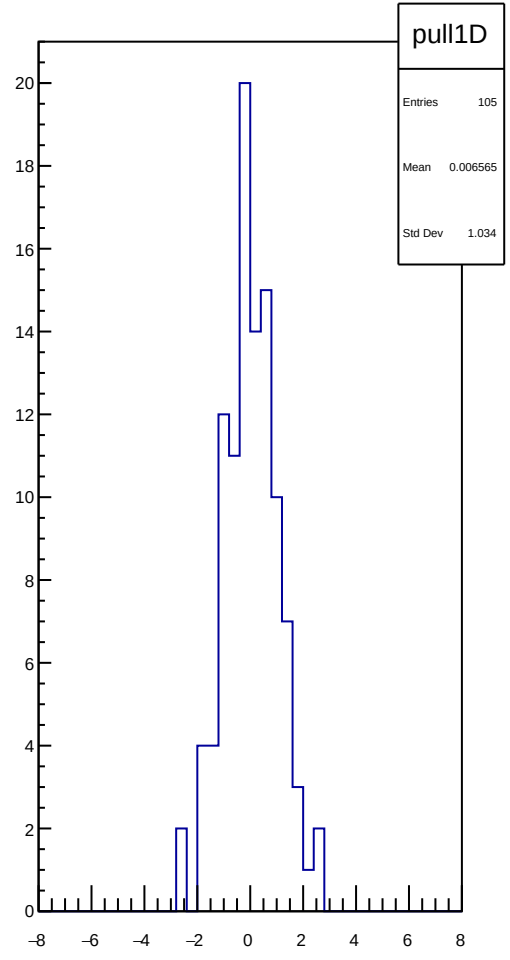

dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 466.5 / 104
p0 1596 ± 1.125
1750
1700
1650
1600
1550

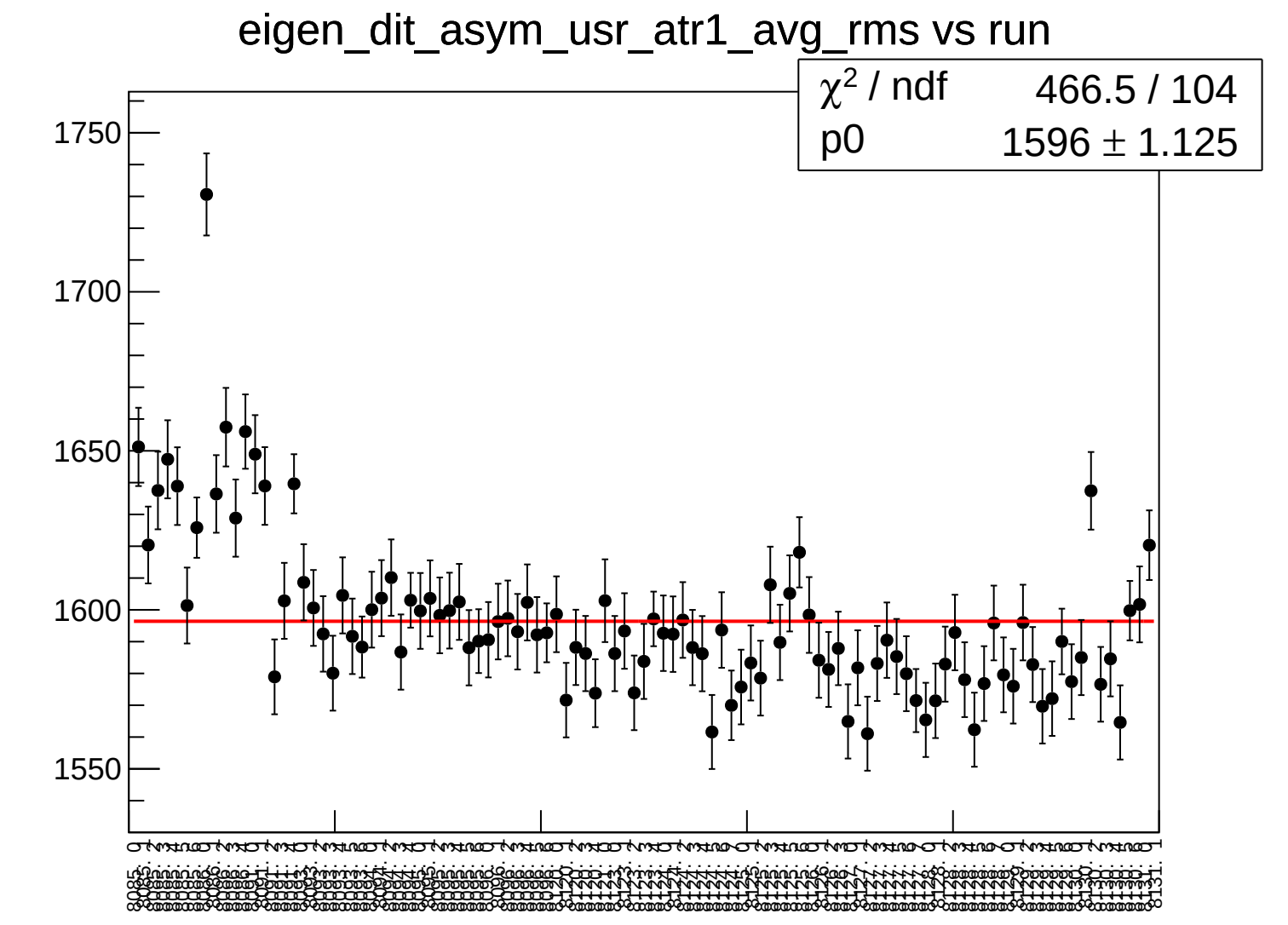

asym_usr_atr1_avg_dit_correction_mean vs run
χ² / ndf 88.23 / 105
p0 1630 ± 1032
60000
40000
20000
0
−20000
−40000
pull
Entries 106
Mean −65.98
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

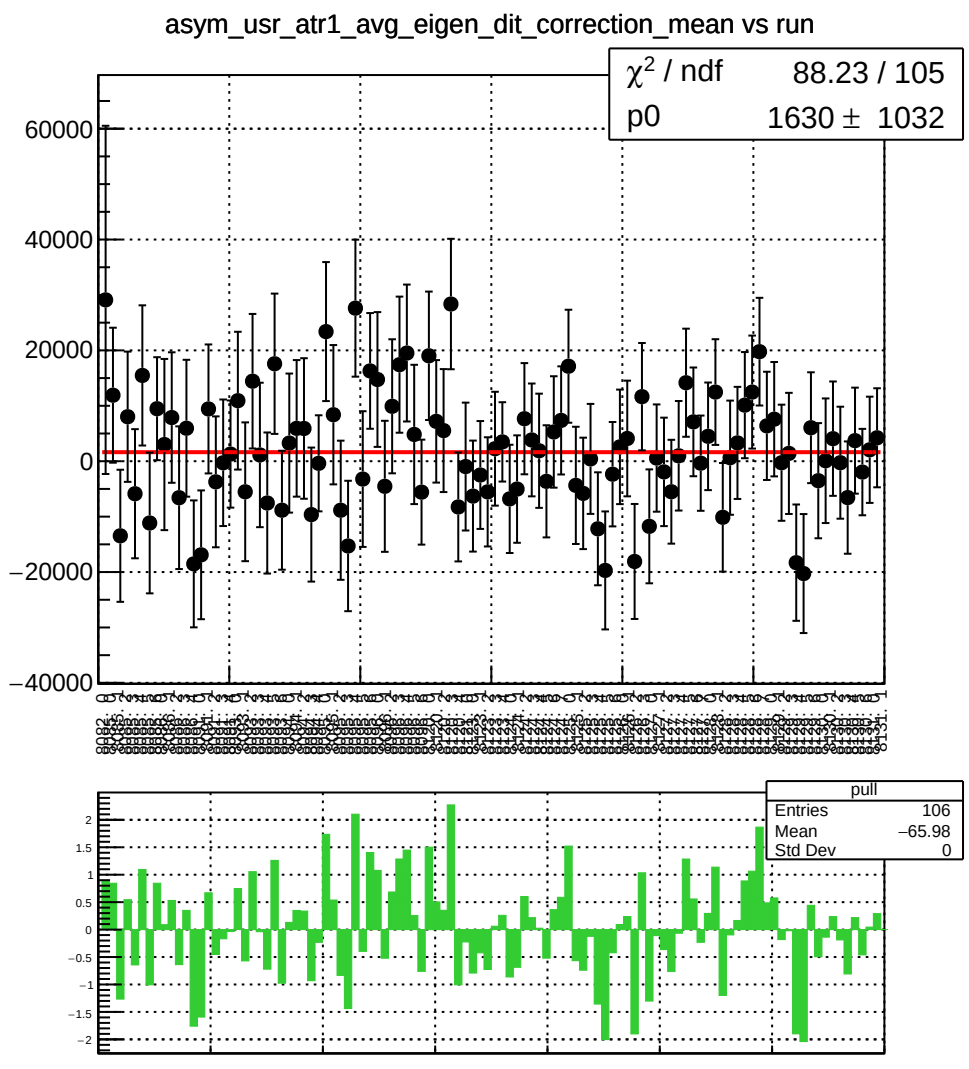

pull1D
Entries 106
Mean 0.01646
Std Dev 0.9122
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

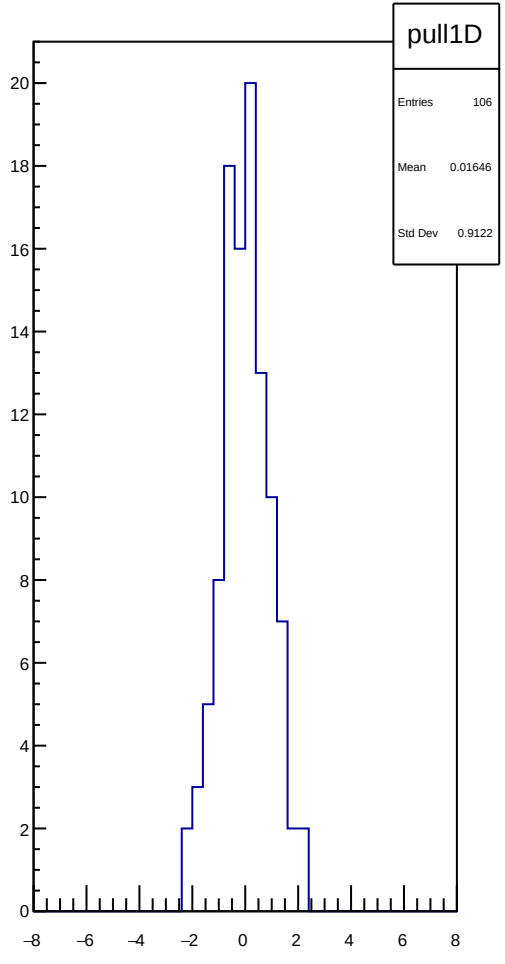

asym_usr_atr1_avg_dit_correction_rms vs run
χ² / ndf 2.334e+04 / 105
p0 1032 ± 0.73
2200
2000
1800
1600
1400
1200
1000
800

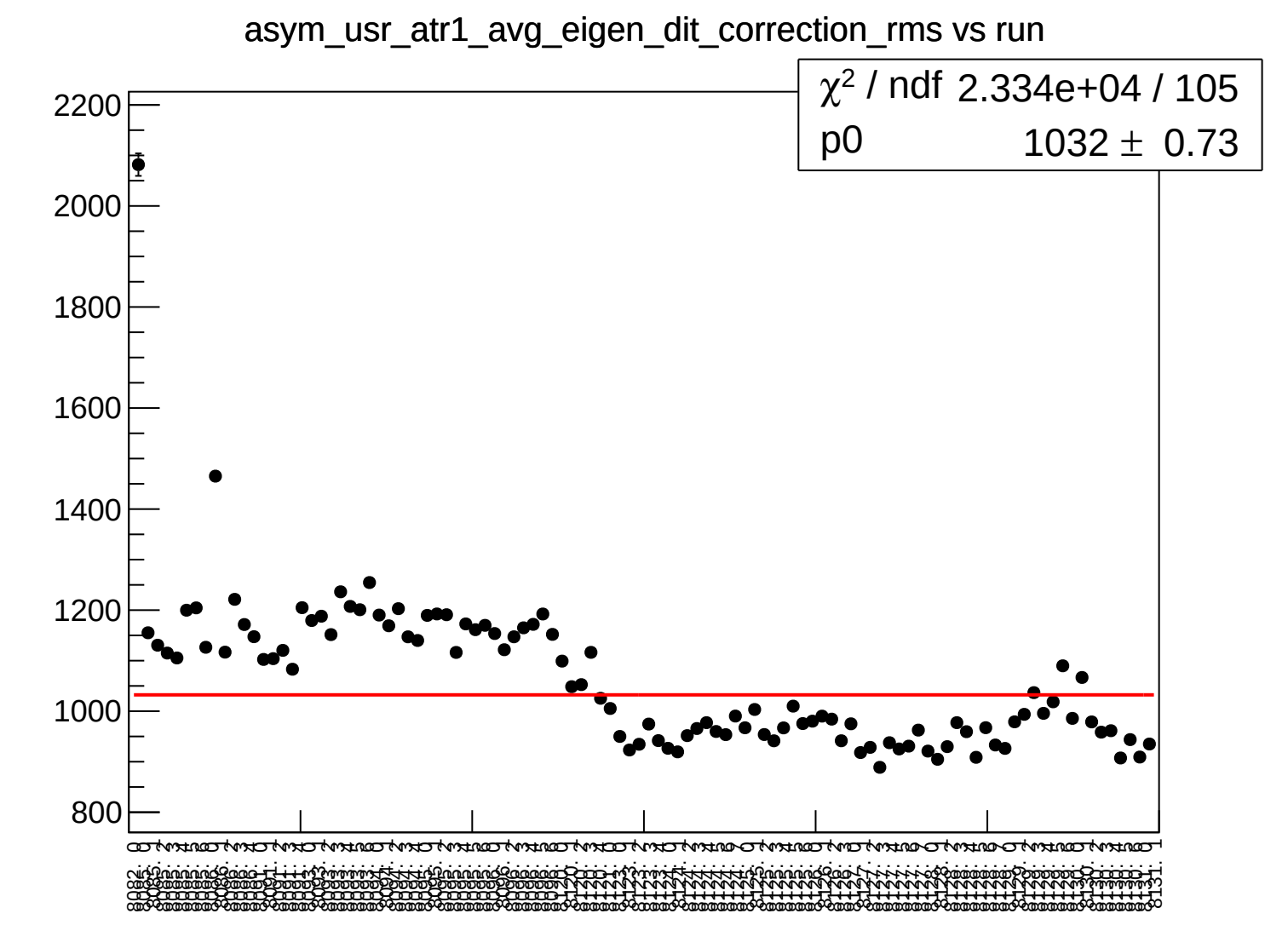

eigen_dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 112.2 / 104
p0 −2977 ± 1591
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean −618.8
Std Dev 0
2
1
0
−1
−2
−3

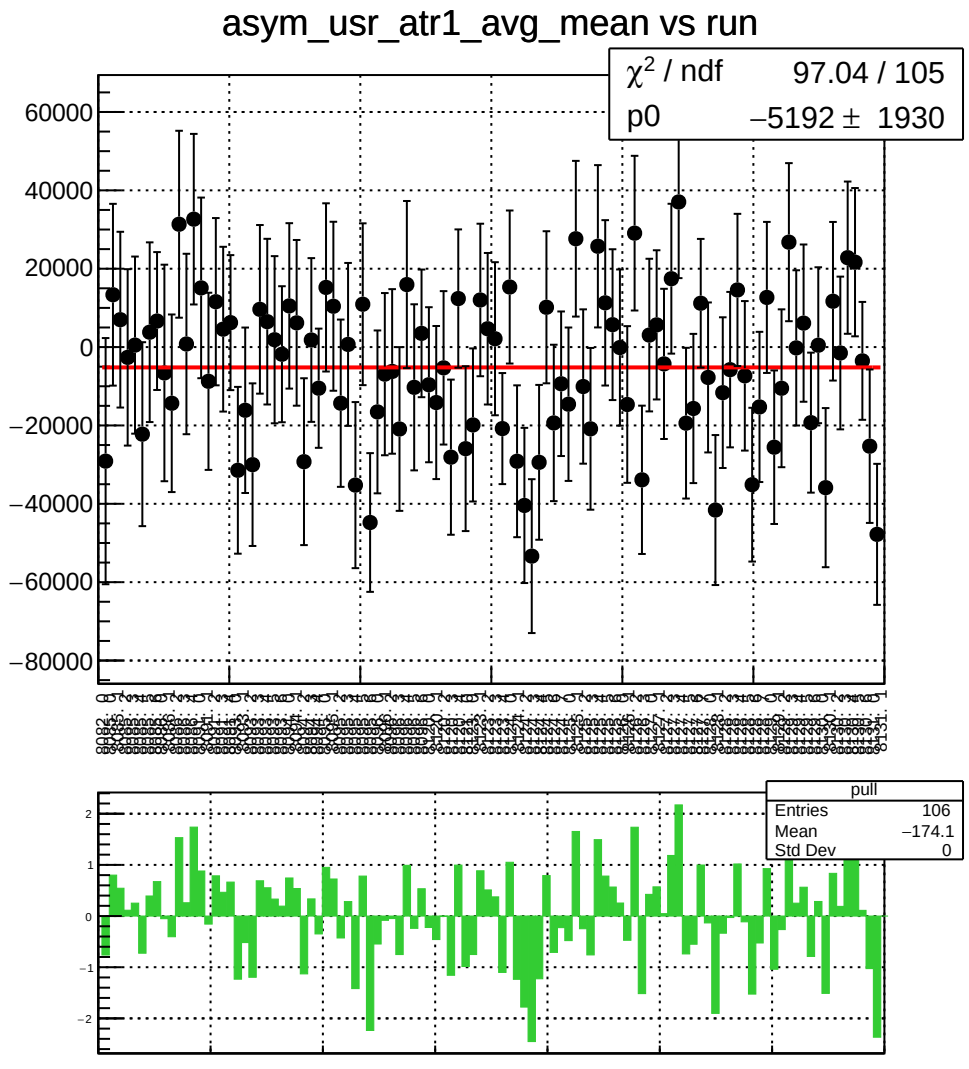

pull1D
Entries 105
Mean 0.006565
Std Dev 1.034
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

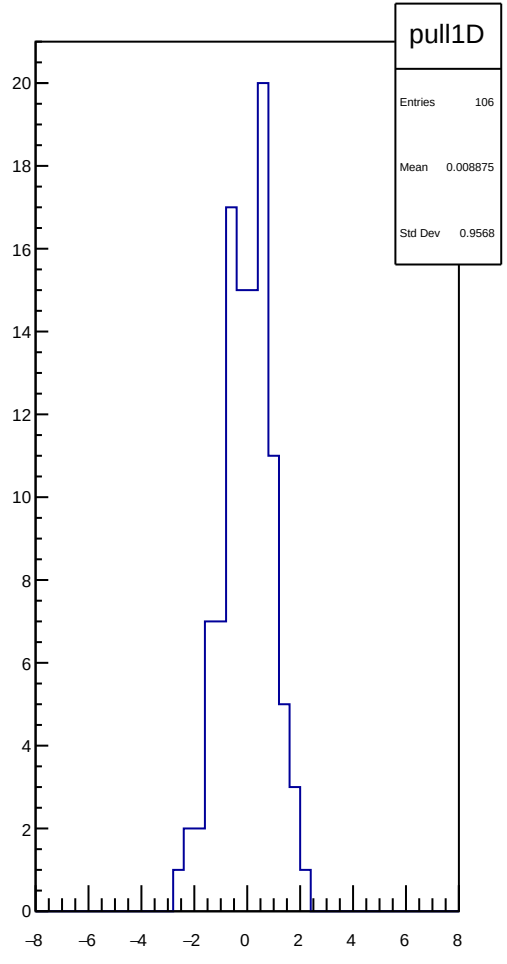

eigen_dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 466.5 / 104
p0 1596 ± 1.125
1750
1700
1650
1600
1550

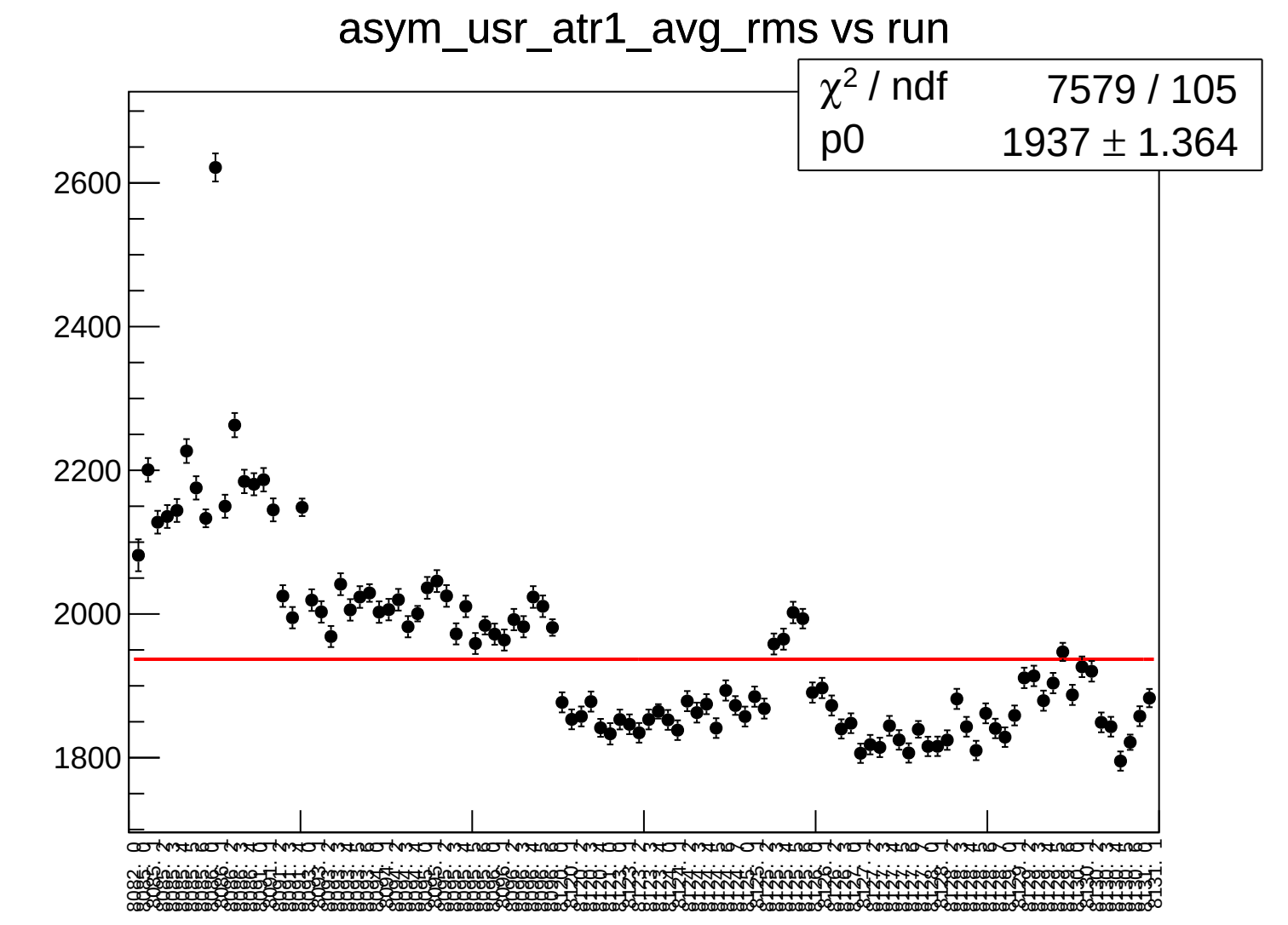

asym_usr_atr1_avg_eigen_dit_correction_mean vs run
χ² / ndf 88.23 / 105
p0 1630 ± 1032
60000
40000
20000
0
−20000
−40000
pull
Entries 106
Mean −65.98
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

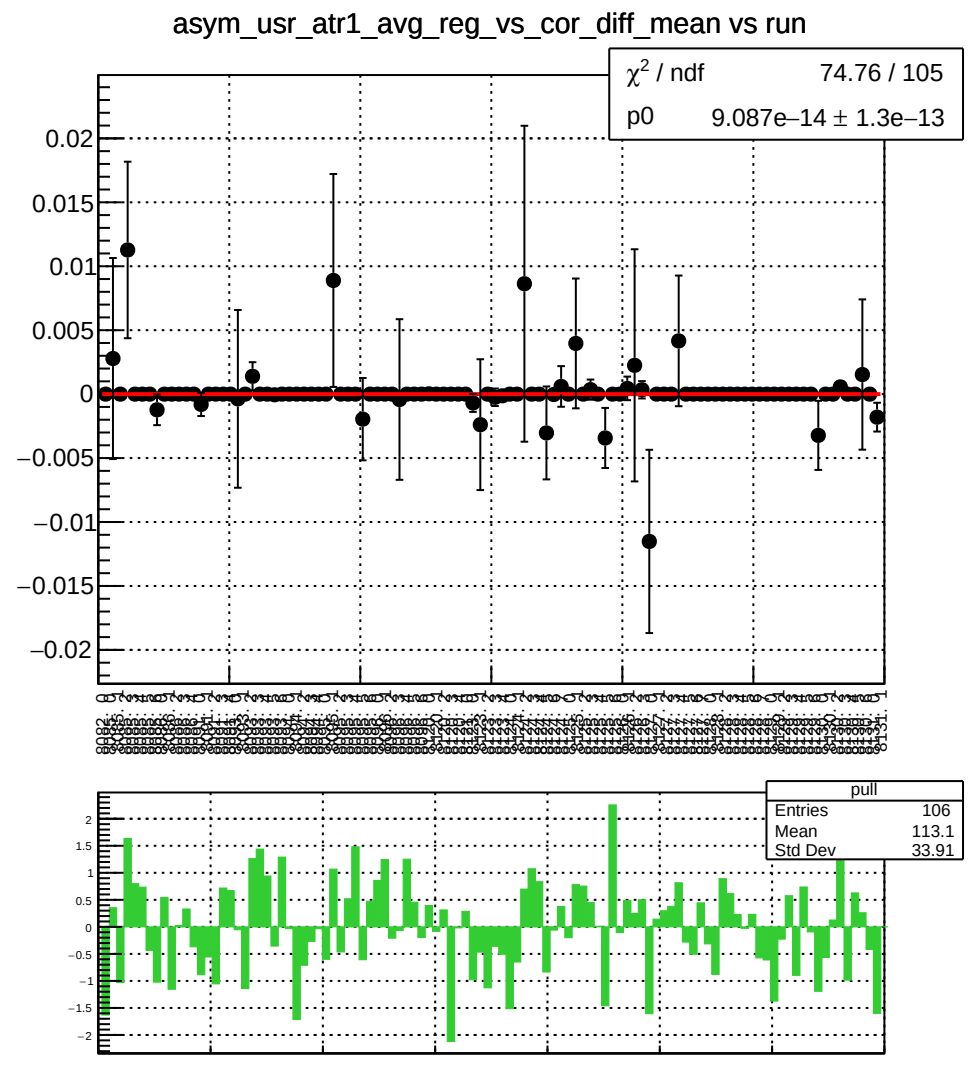

pull1D
Entries 106
Mean 0.01646
Std Dev 0.9122
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

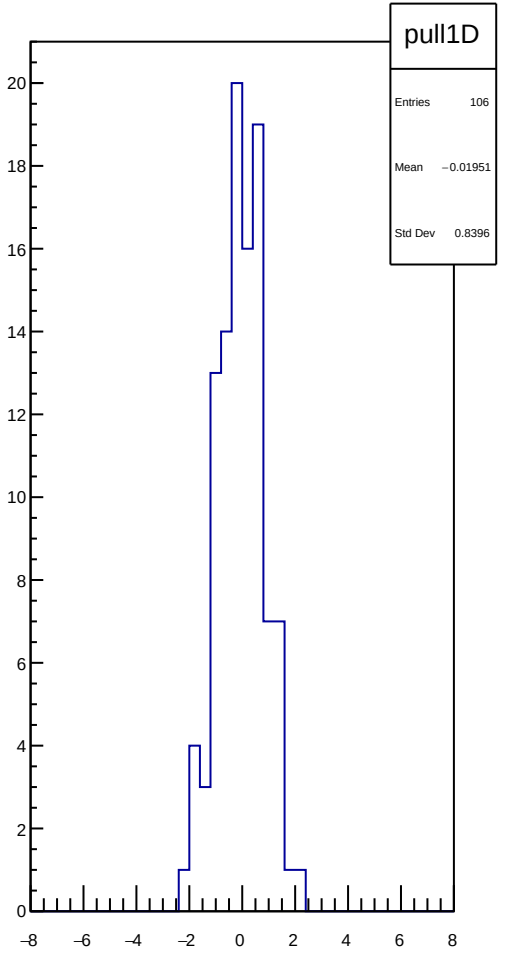

asym_usr_atr1_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.334e+04 / 105
p0 1032 ± 0.73
2200
2000
1800
1600
1400
1200
1000
800

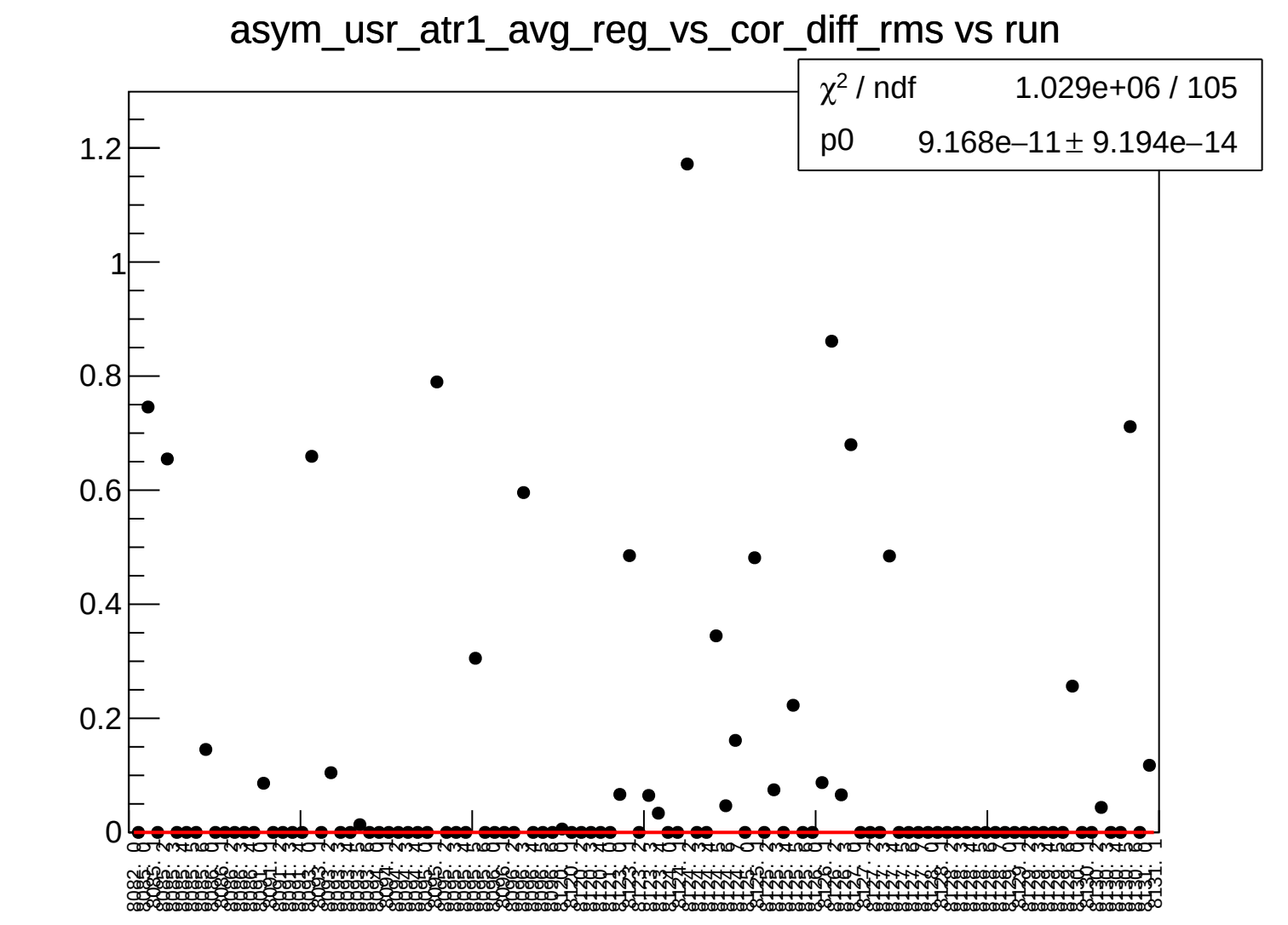

asym_usr_atr1_avg_mean vs run
χ² / ndf 97.04 / 105
p0 −5192 ± 1930
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 106
Mean −174.1
Std Dev 0
2
1
0
−1
−2

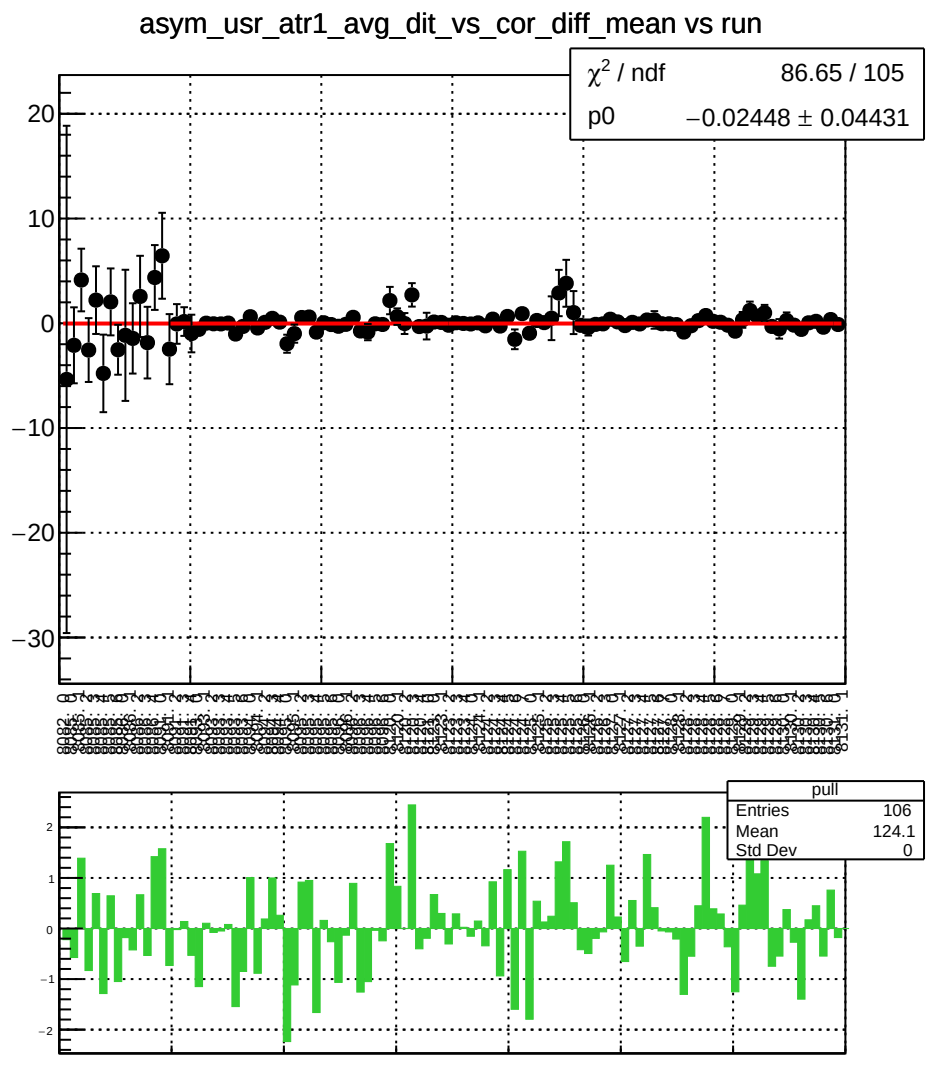

pull1D
Entries 106
Mean 0.008875
Std Dev 0.9568
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

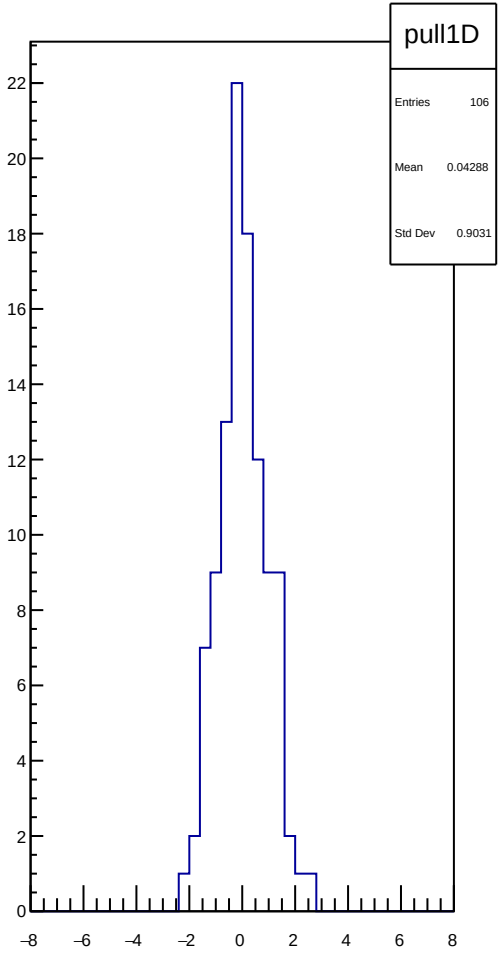

asym_usr_atr1_avg_rms vs run
χ² / ndf 7579 / 105
p0 1937 ± 1.364
2600
2400
2200
2000
1800

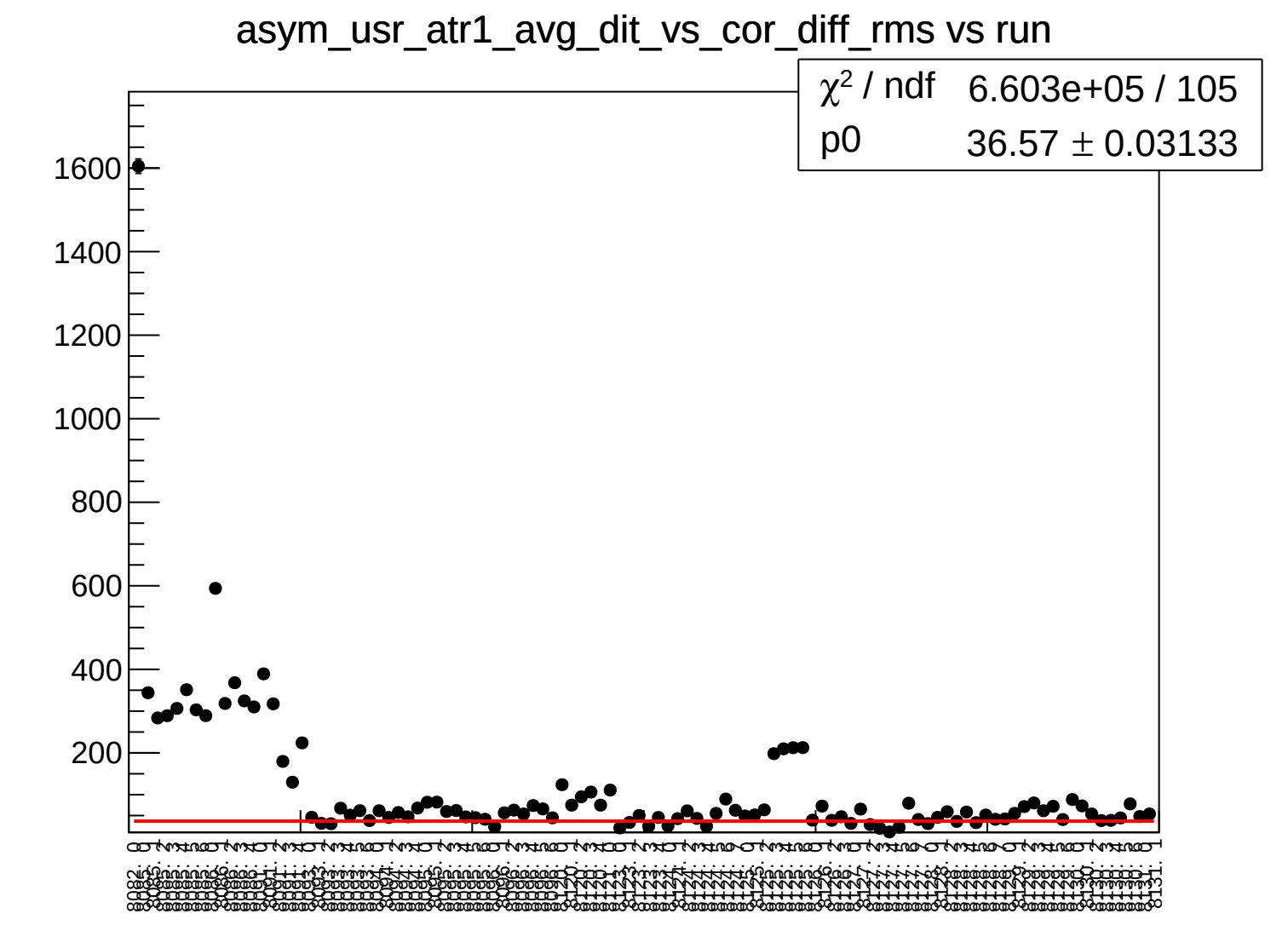

asym_usr_atr1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 74.76 / 105
p0 9.087e−14 ± 1.3e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 106
Mean 113.1
Std Dev 33.91
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

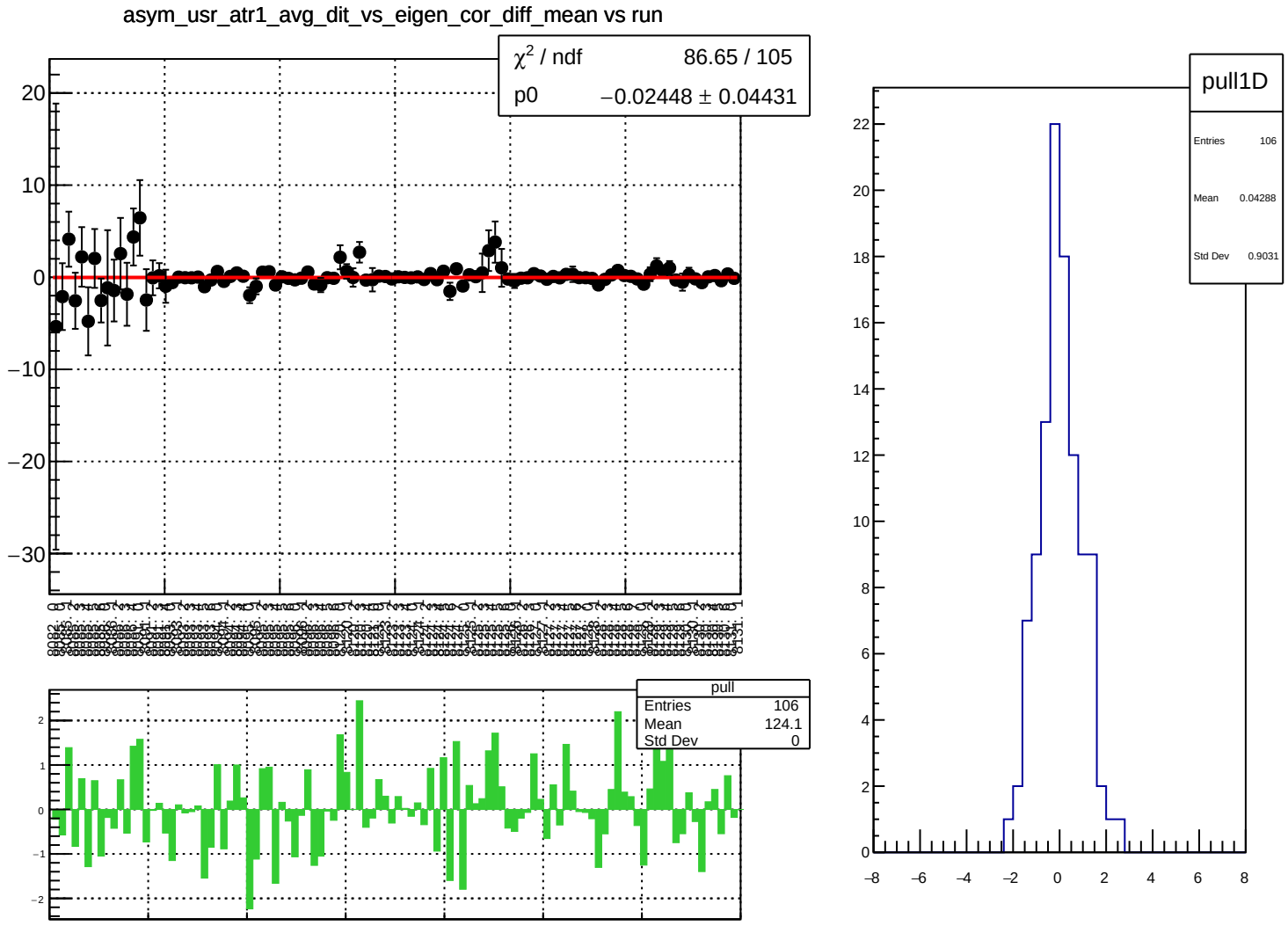

pull1D
Entries 106
Mean −0.01951
Std Dev 0.8396
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

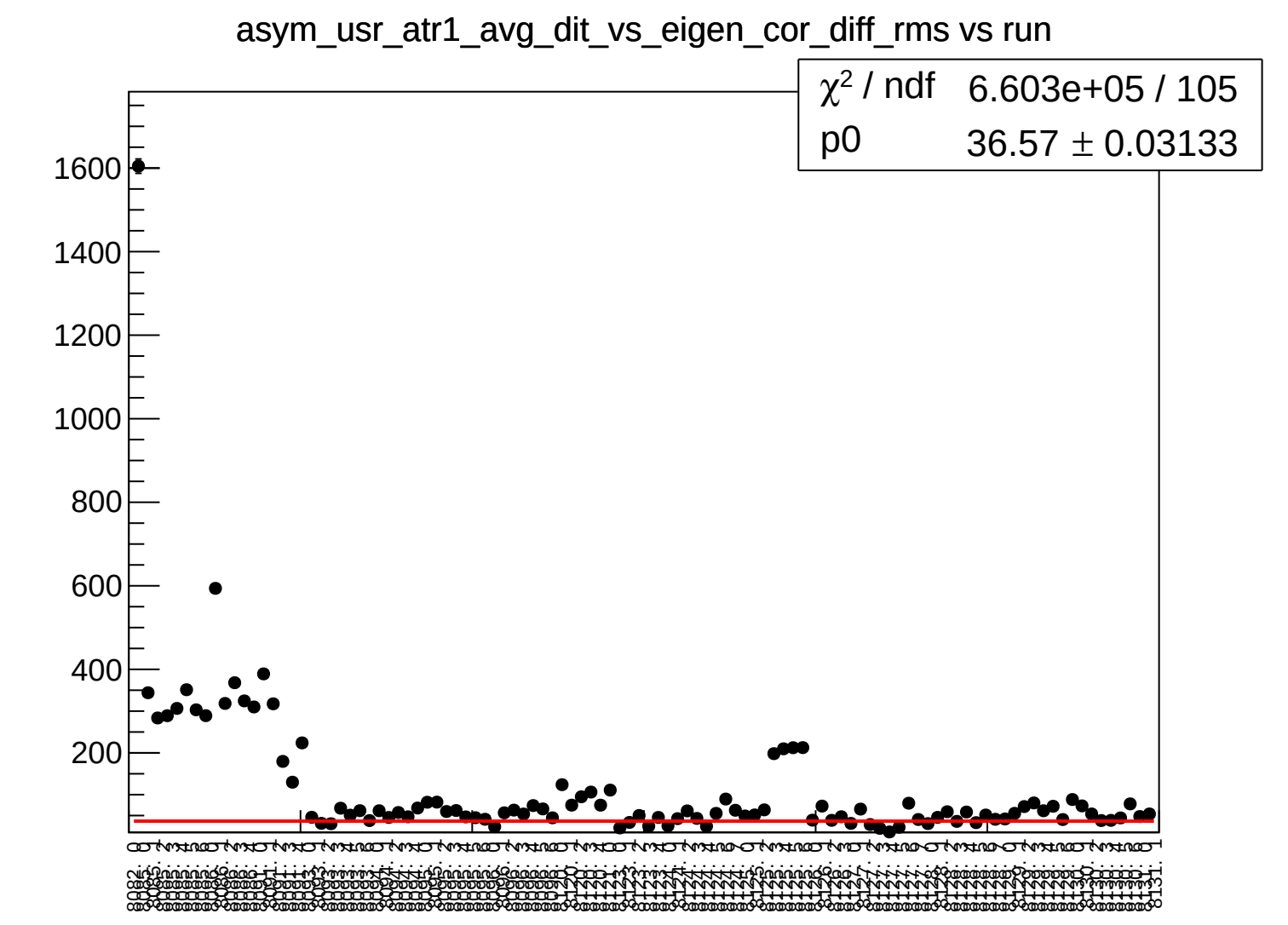

asym_usr_atr1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.029e+06 / 105
p0 9.168e−11 ± 9.194e−14
1.2
1
0.8
0.6
0.4
0.2
0

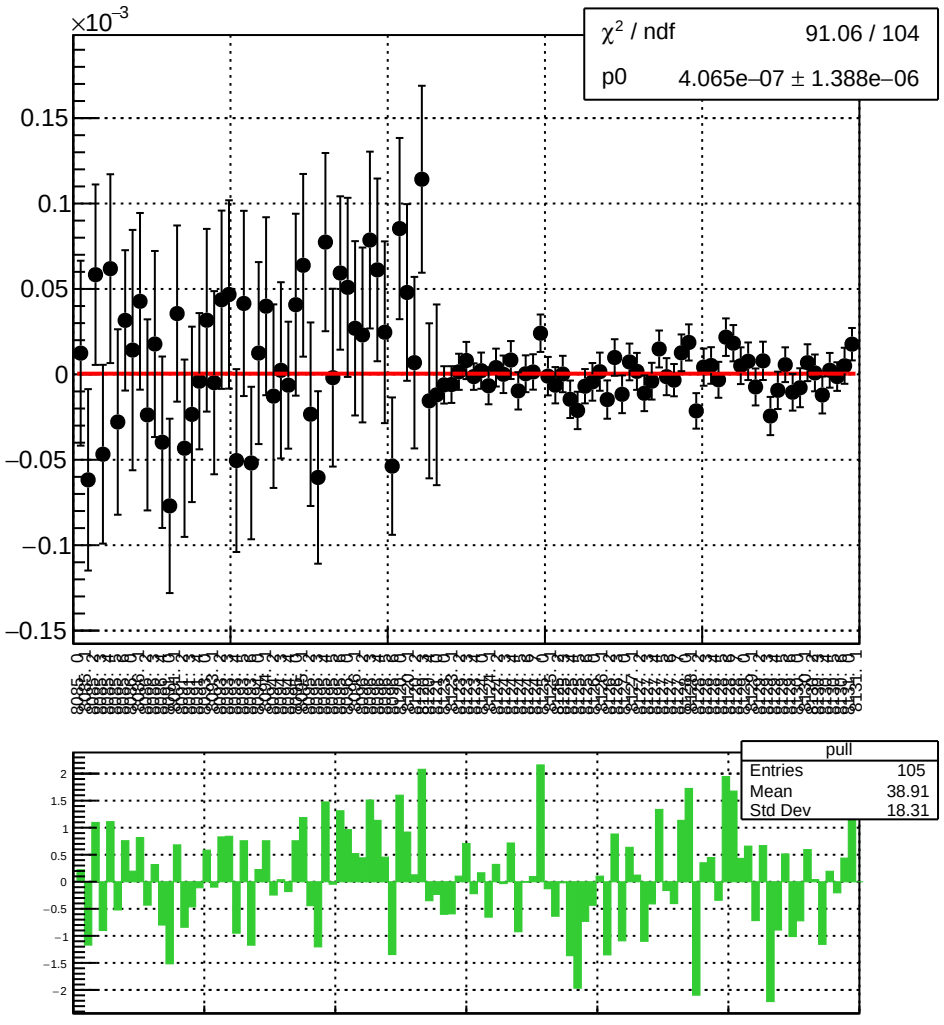

asym_usr_atr1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 86.65 / 105
p0 −0.02448 ± 0.04431
pull
Entries 106
Mean 124.1
Std Dev 0

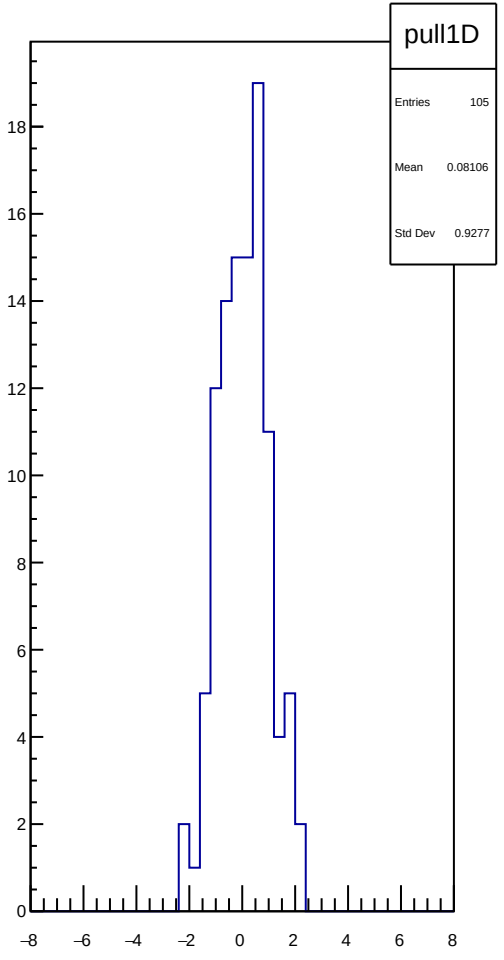

pull1D
Entries 106
Mean 0.04288
Std Dev 0.9031

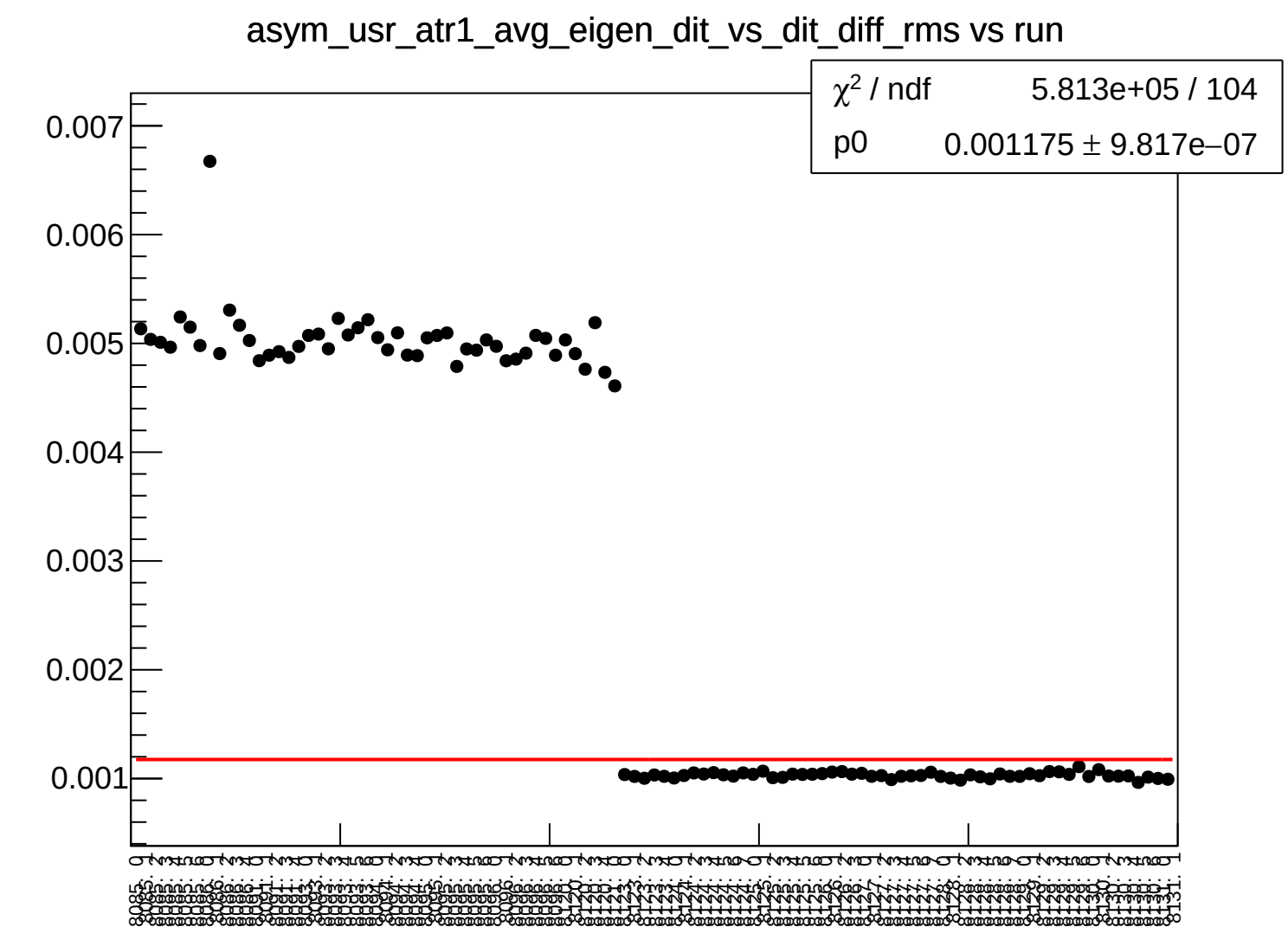

asym_usr_atr1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.603e+05 / 105
p0 36.57 ± 0.03133
1600
1400
1200
1000
800
600
400
200

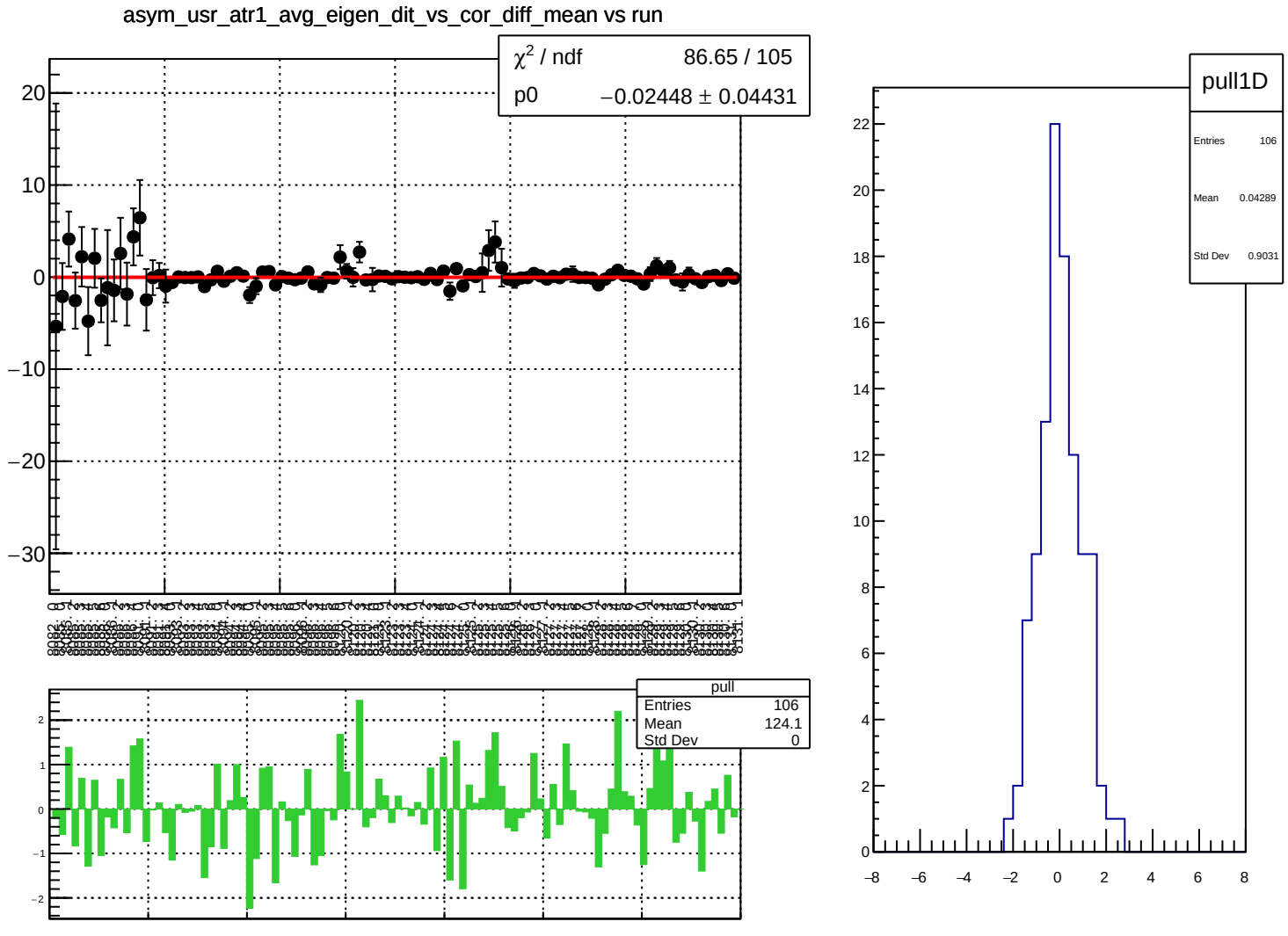

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.65 / 105
p0 −0.02448 ± 0.04431
pull
Entries 106
Mean 124.1
Std Dev 0
pull1D
Entries 106
Mean 0.04288
Std Dev 0.9031

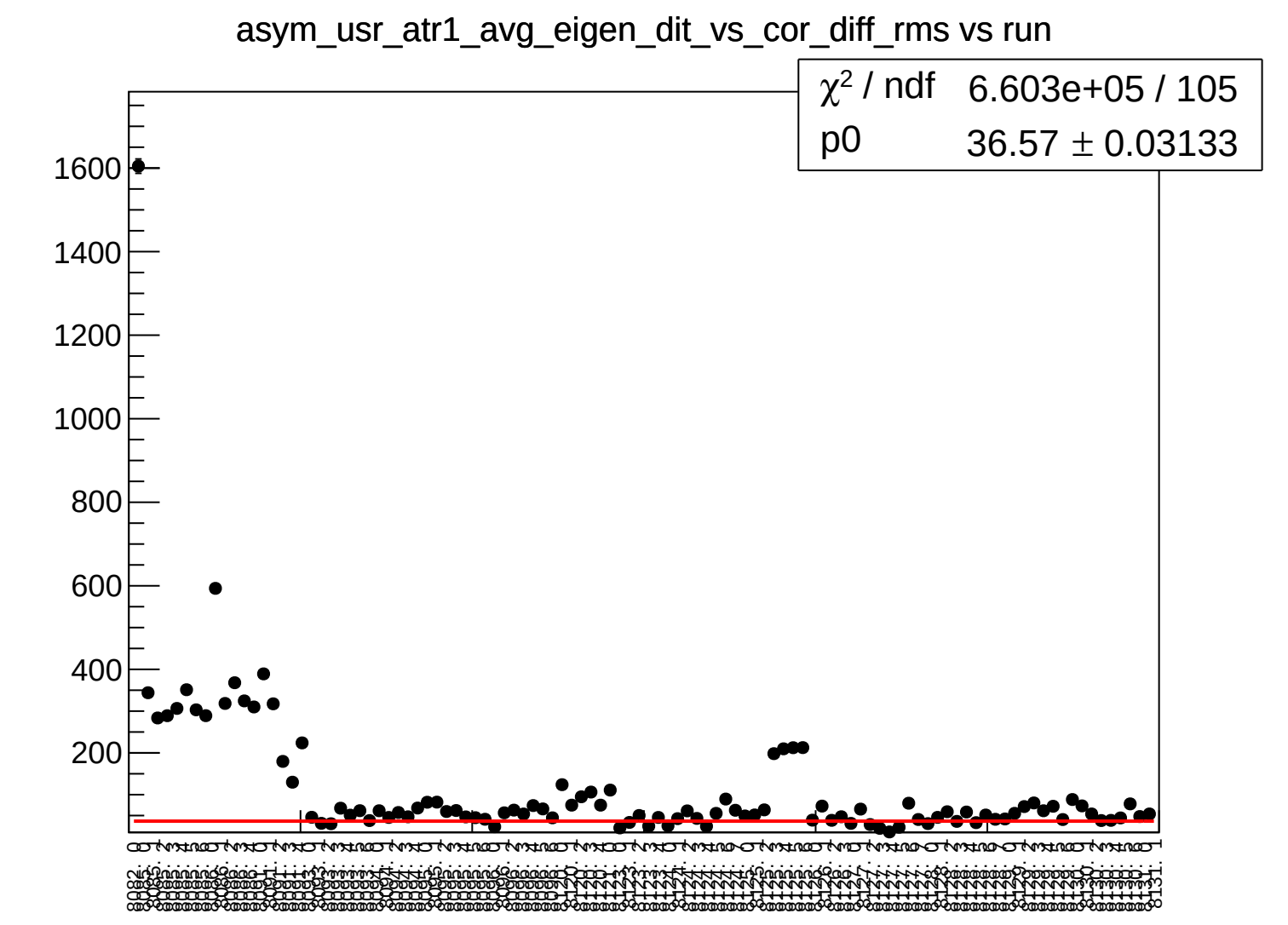

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.603e+05 / 105
p0 36.57 ± 0.03133
1600
1400
1200
1000
800
600
400
200

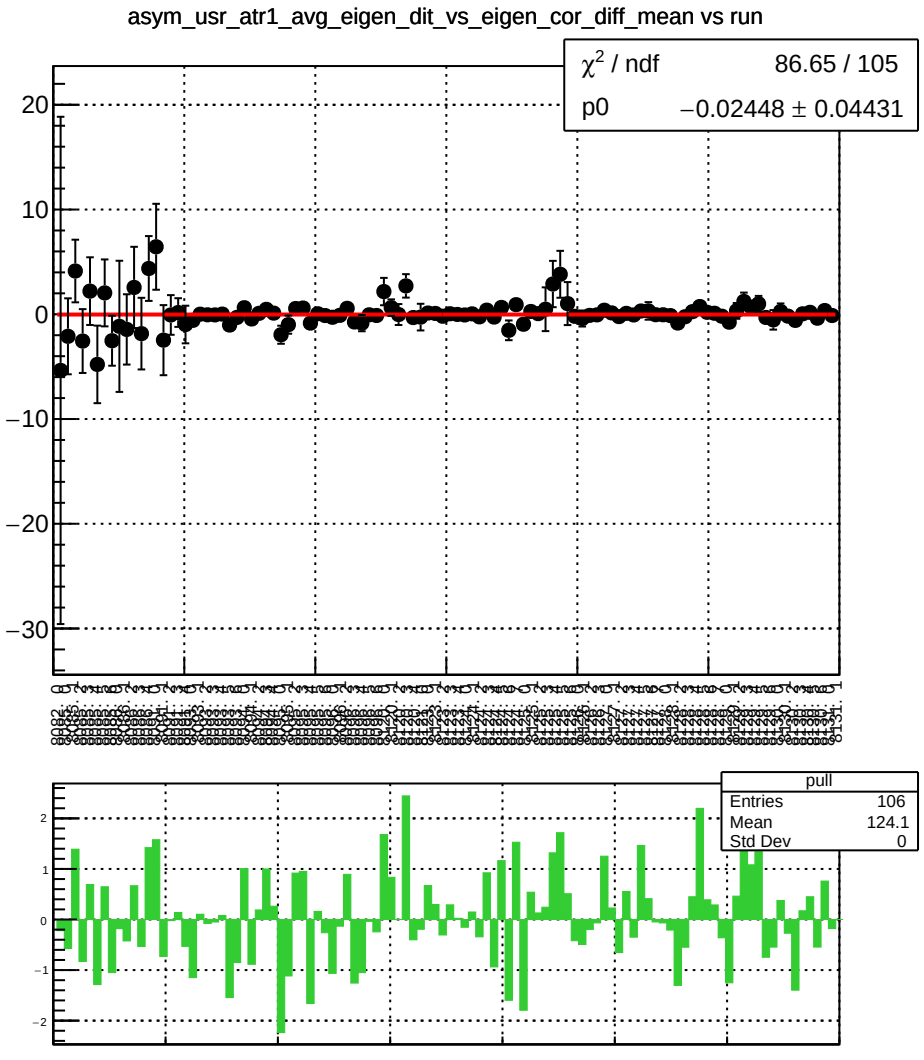

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.06 / 104
p0 4.065e−07 ± 1.388e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 105
Mean 38.91
Std Dev 18.31
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

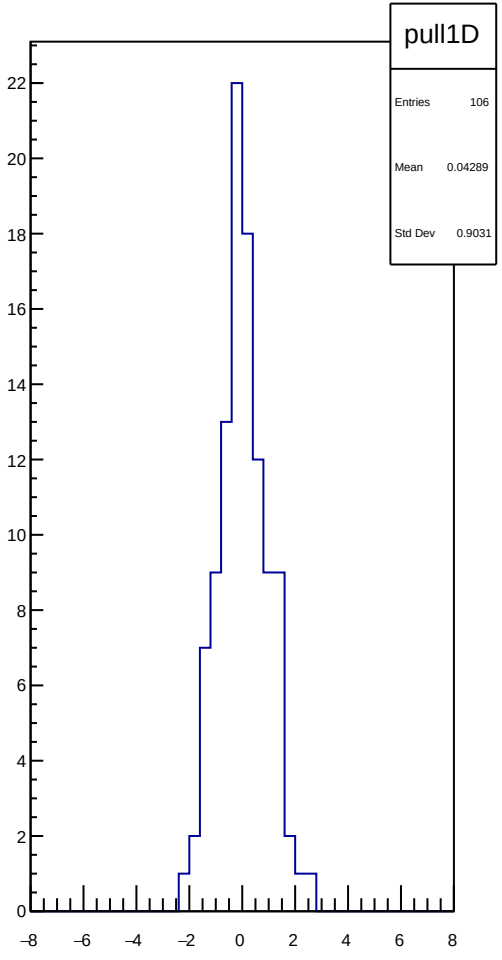

pull1D
Entries 105
Mean 0.08106
Std Dev 0.9277
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

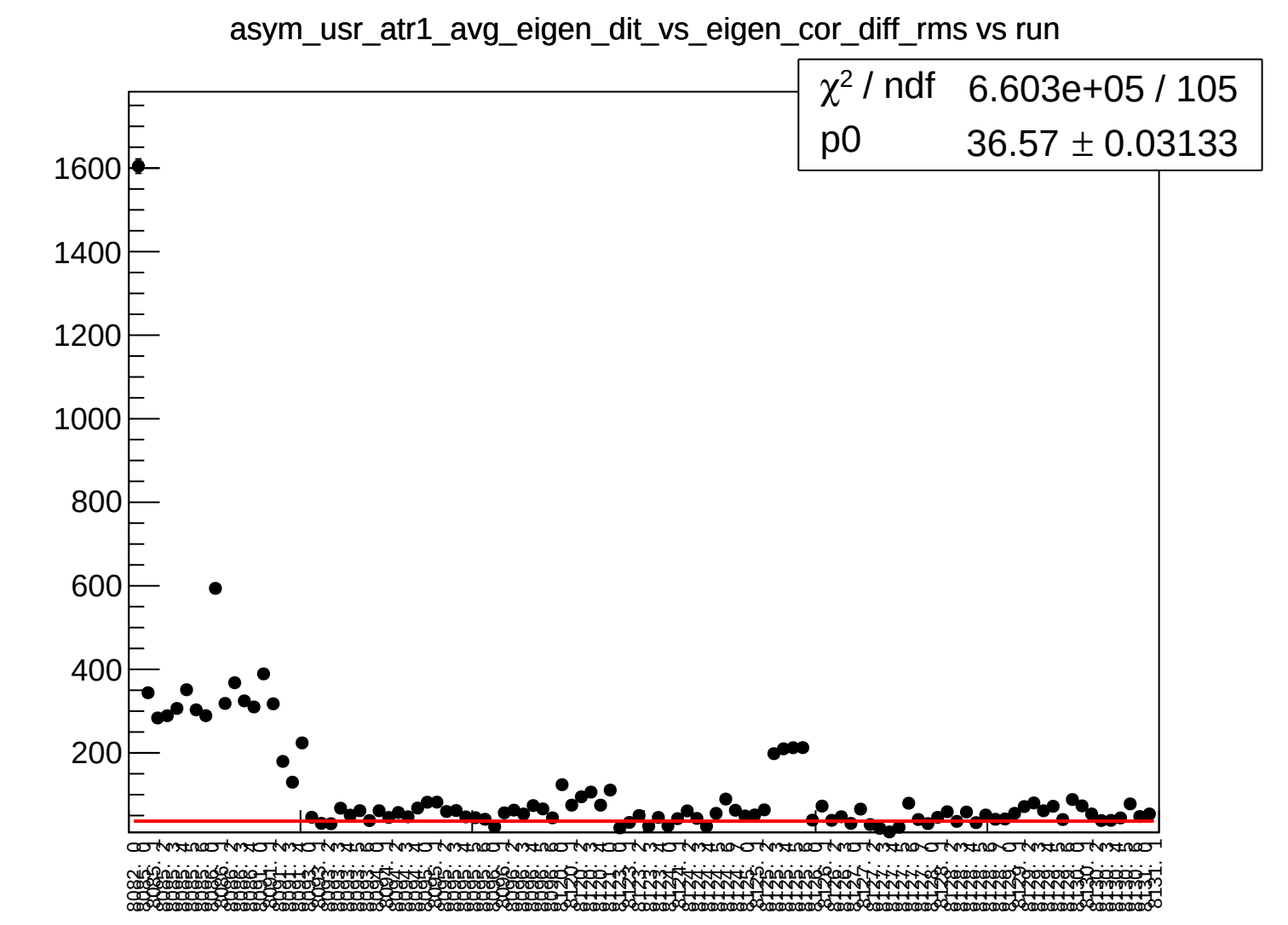

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.813e+05 / 104
p0 0.001175 ± 9.817e−07
0.007
0.006
0.005
0.004
0.003
0.002
0.001

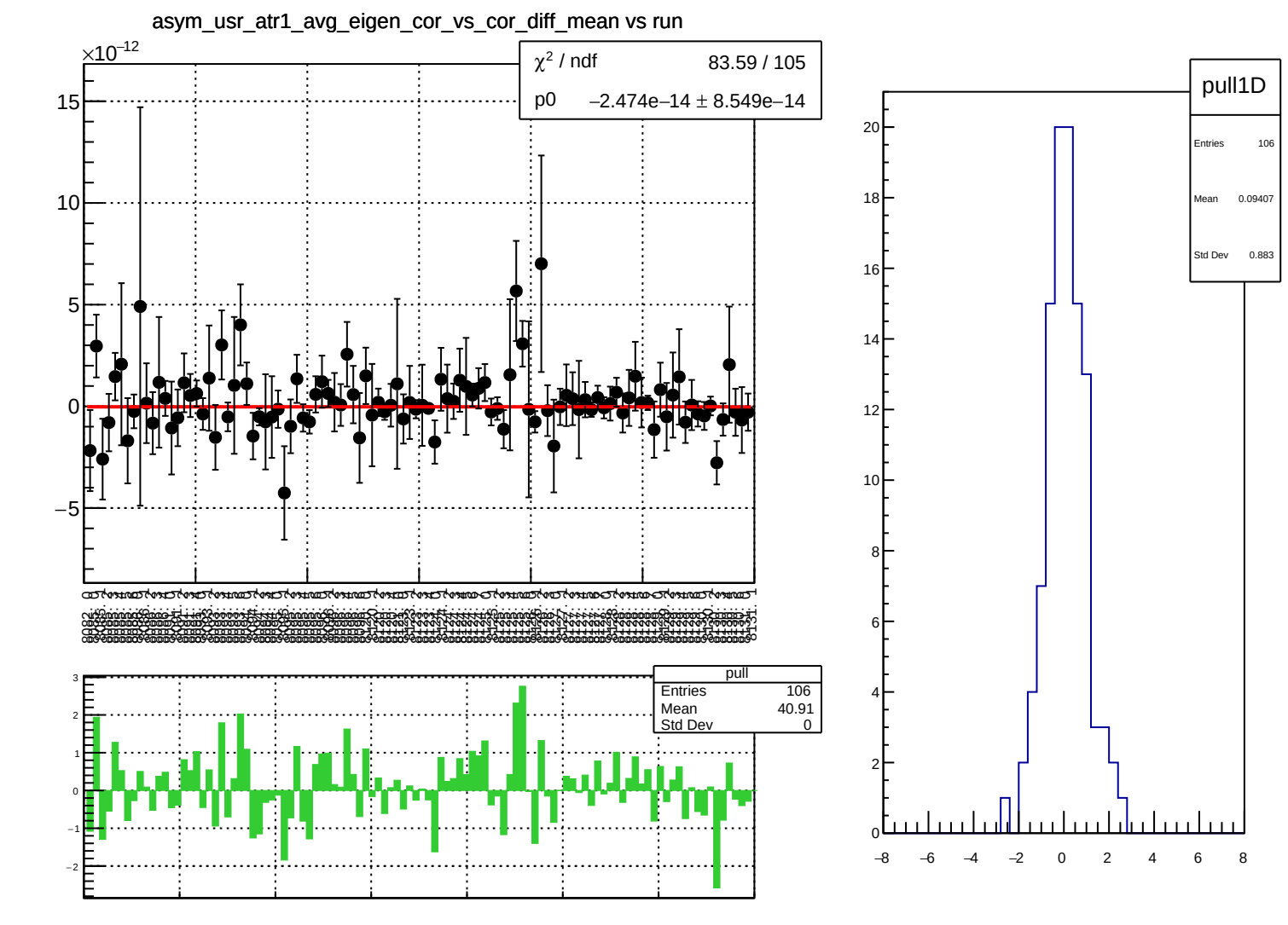

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.65 / 105
p0 −0.02448 ± 0.04431
pull
Entries 106
Mean 124.1
Std Dev 0
pull1D
Entries 106
Mean 0.04289
Std Dev 0.9031

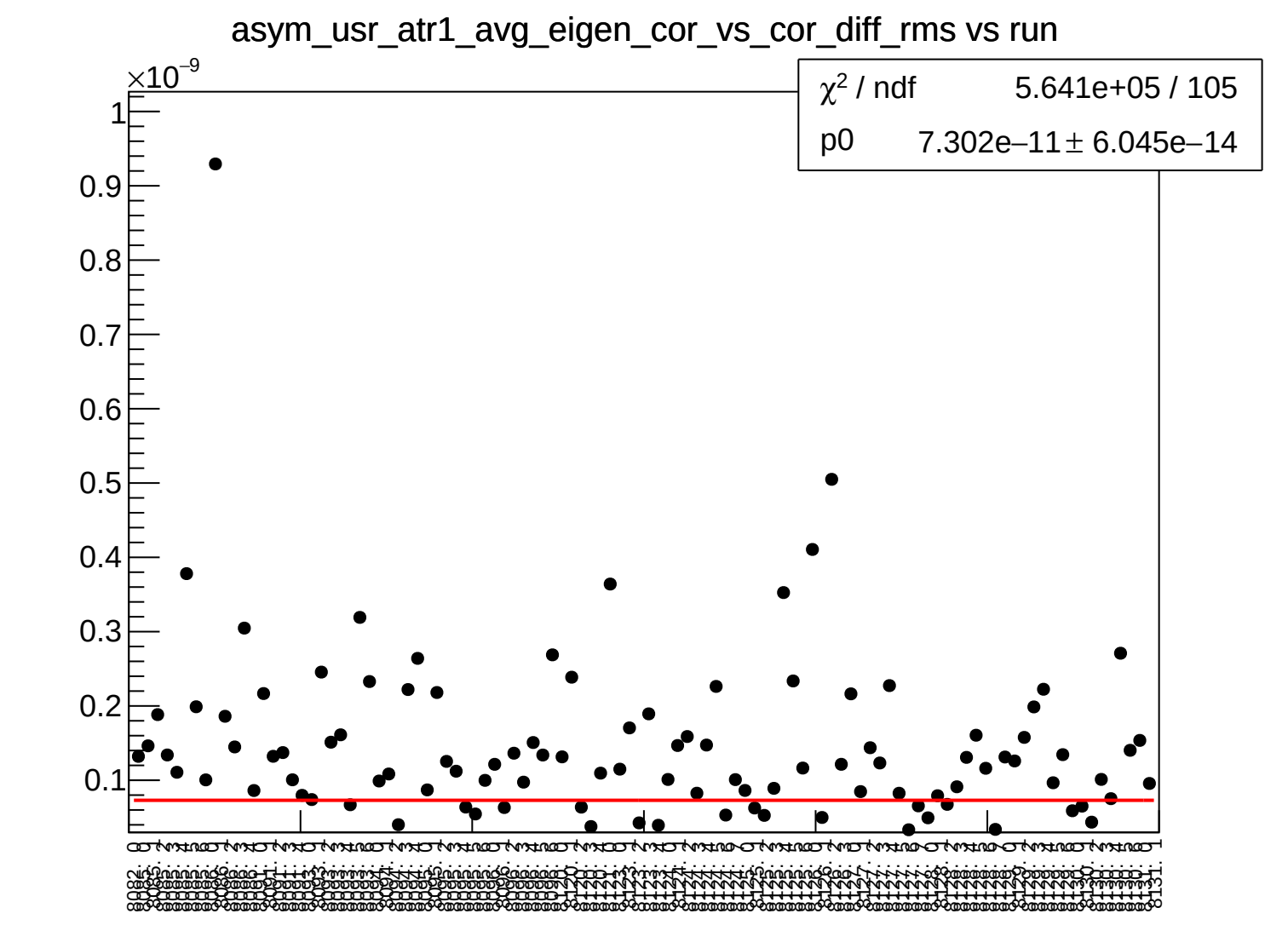

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.603e+05 / 105
p0 36.57 ± 0.03133
1600
1400
1200
1000
800
600
400
200

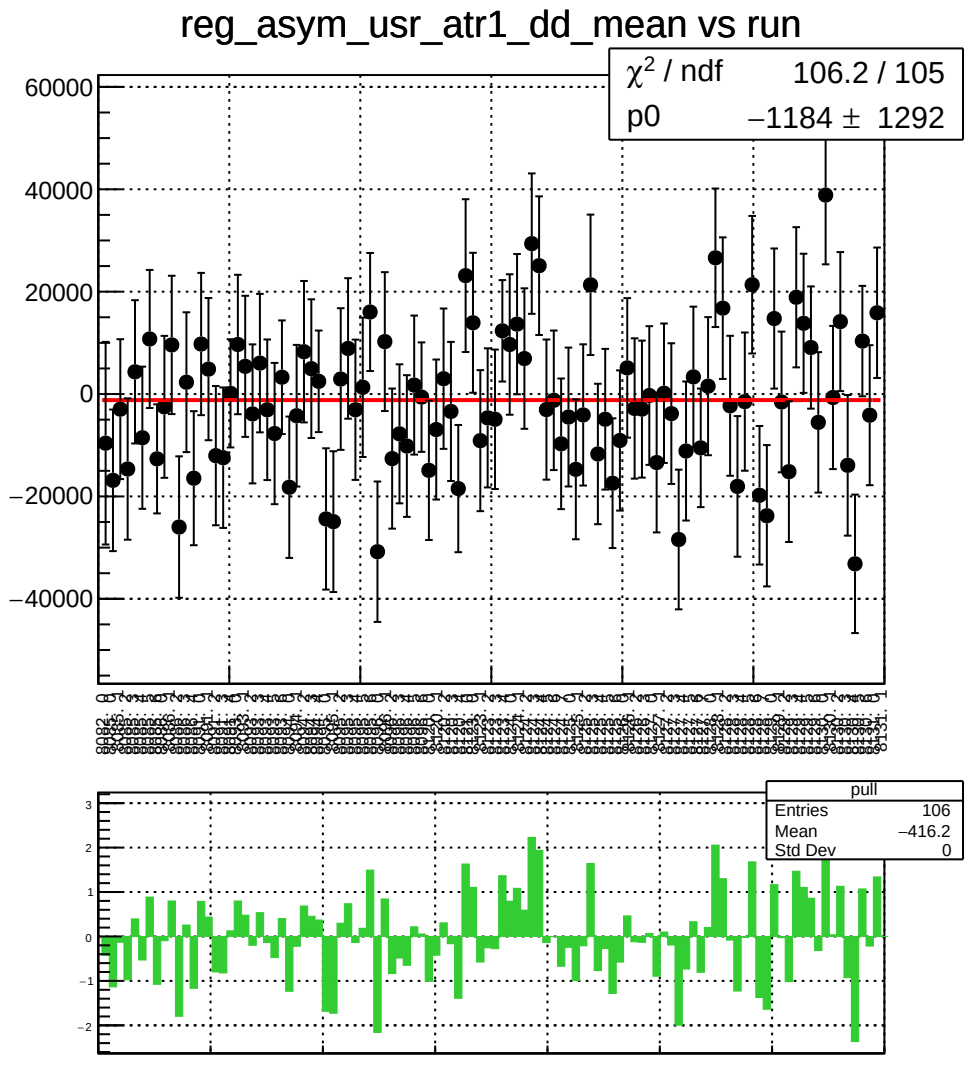

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.65 / 105
p0 −0.02448 ± 0.04431
pull
Entries 106
Mean 124.1
Std Dev 0

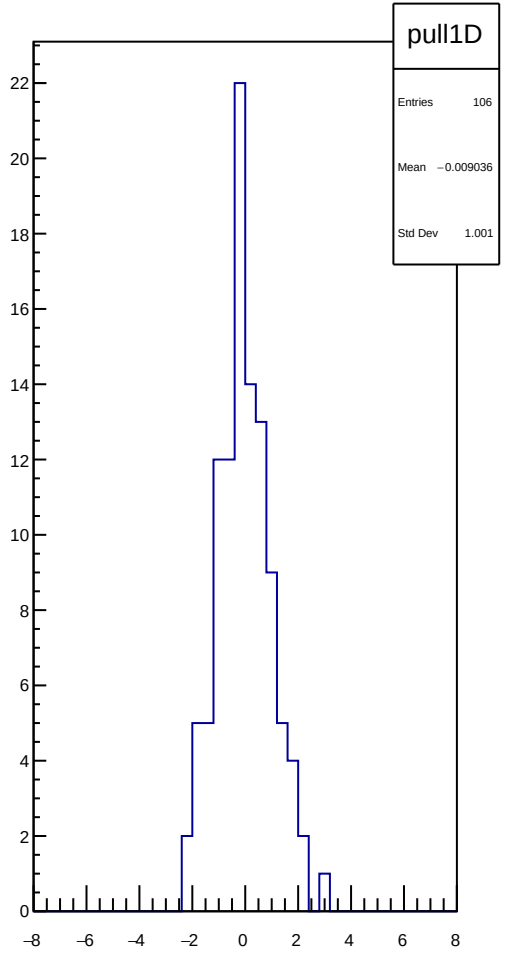

pull1D
Entries 106
Mean 0.04289
Std Dev 0.9031

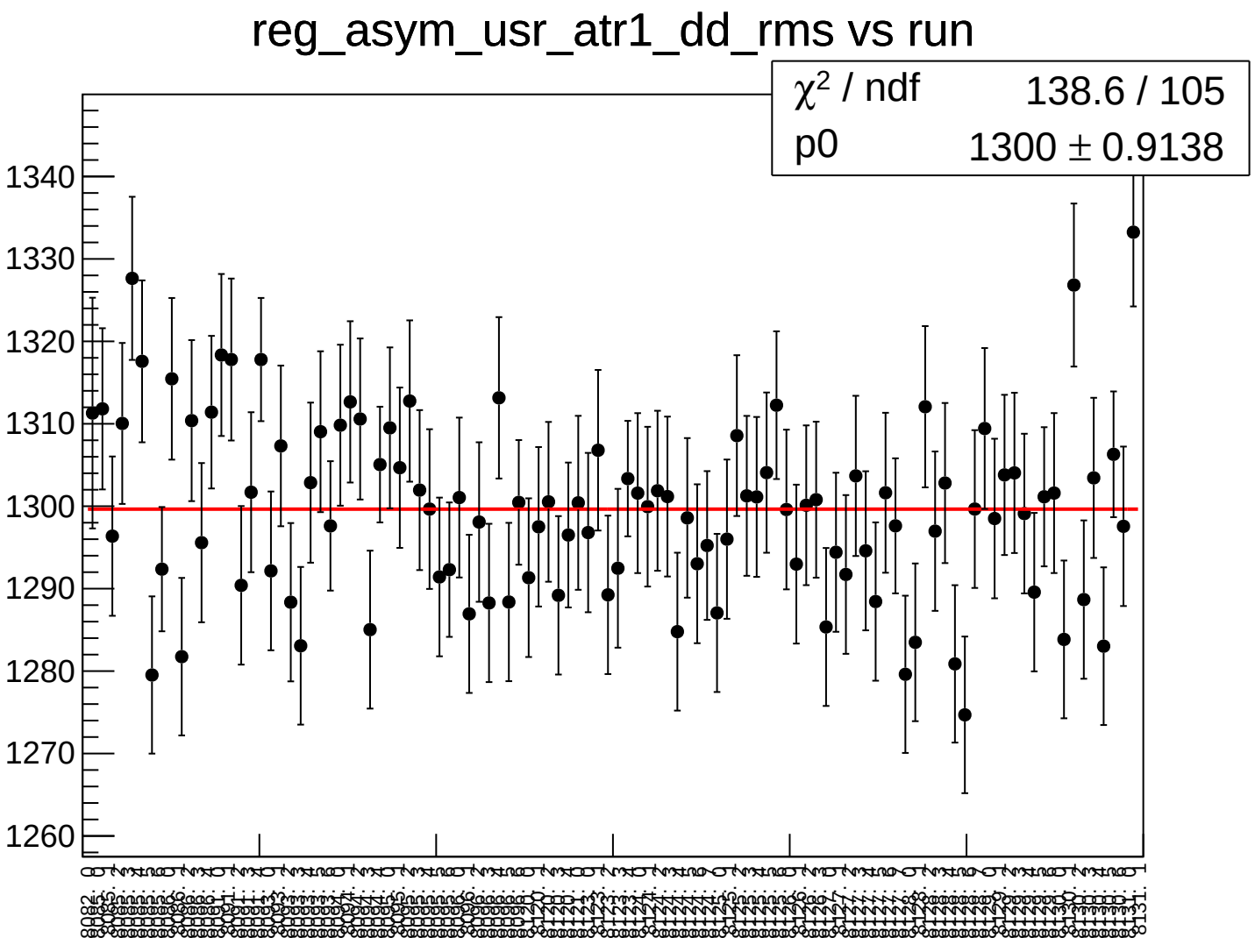

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.603e+05 / 105
p0 36.57 ± 0.03133
1600
1400
1200
1000
800
600
400
200

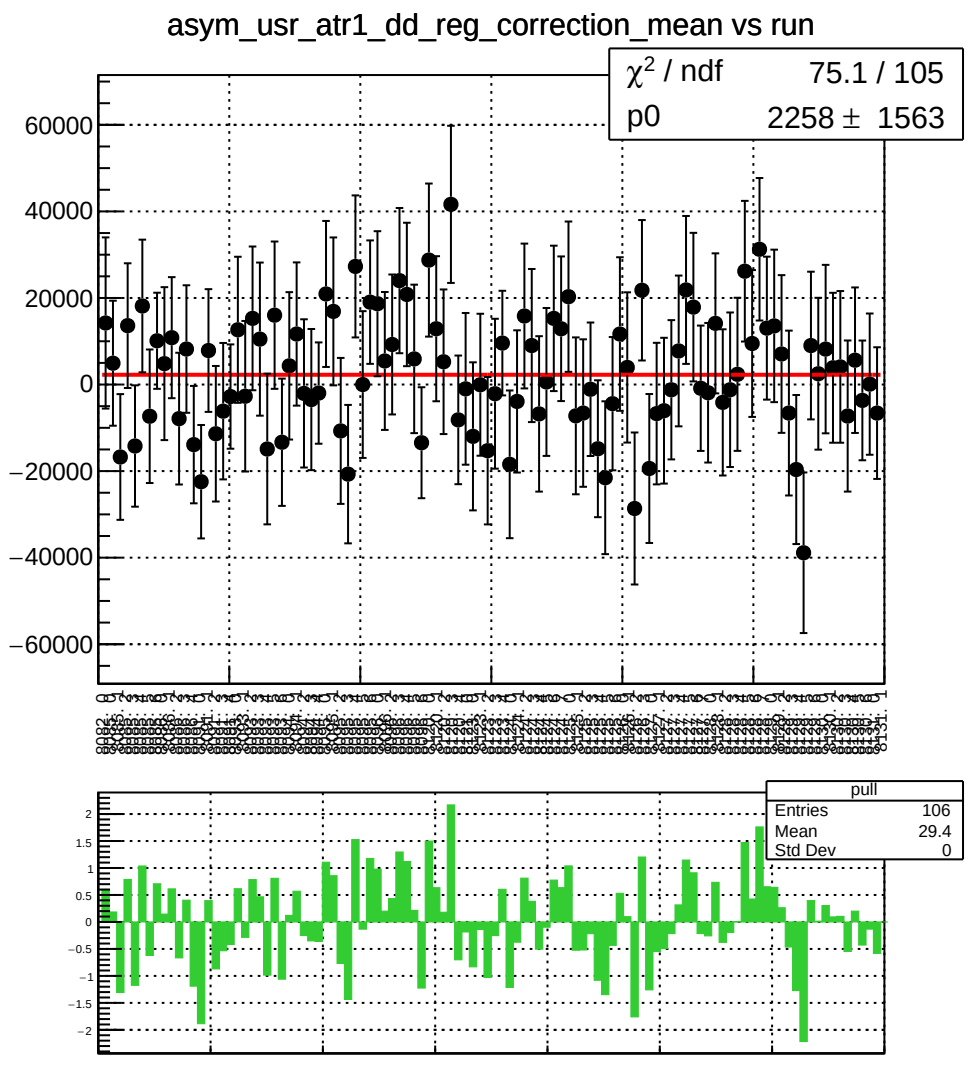

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_mean vs run
×10^-12
χ² / ndf 83.59 / 105
p0 −2.474e−14 ± 8.549e−14
pull
Entries 106
Mean 40.91
Std Dev 0
pull1D
Entries 106
Mean 0.09407
Std Dev 0.883

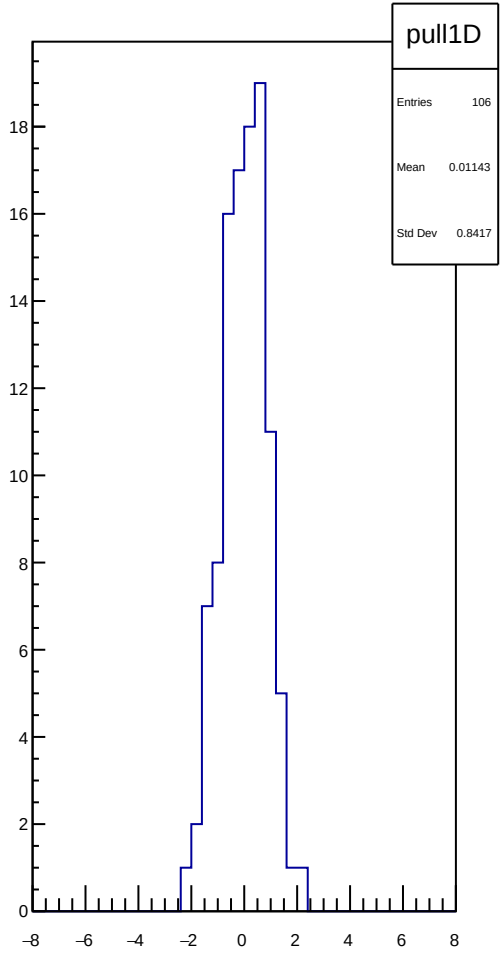

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.641e+05 / 105
p0 7.302e−11 ± 6.045e−14
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

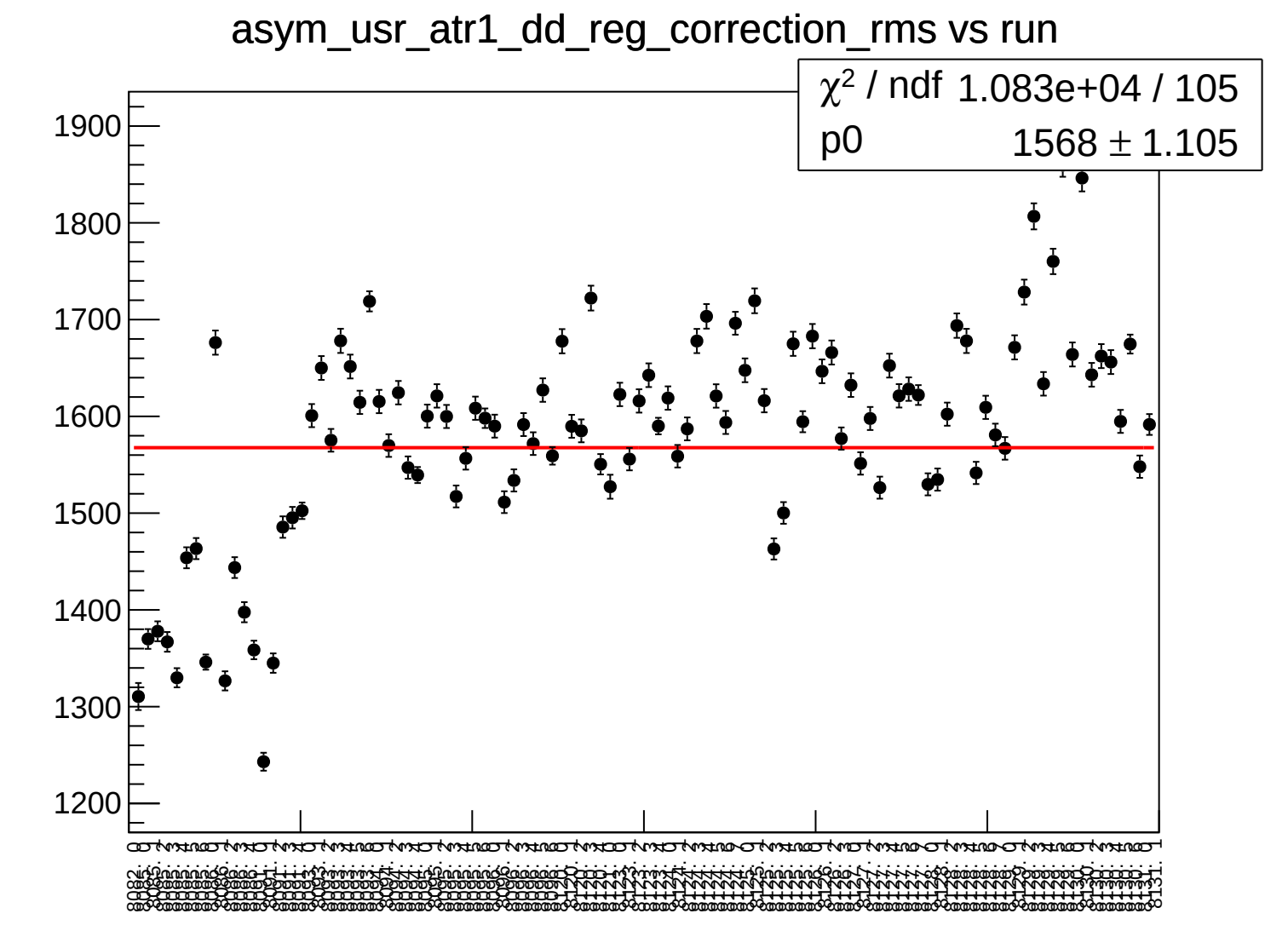

reg_asym_usr_atr1_dd_mean vs run
χ² / ndf 106.2 / 105
p0 −1184 ± 1292
60000
40000
20000
0
−20000
−40000
pull
Entries 106
Mean −416.2
Std Dev 0
3
2
1
0
−1
−2

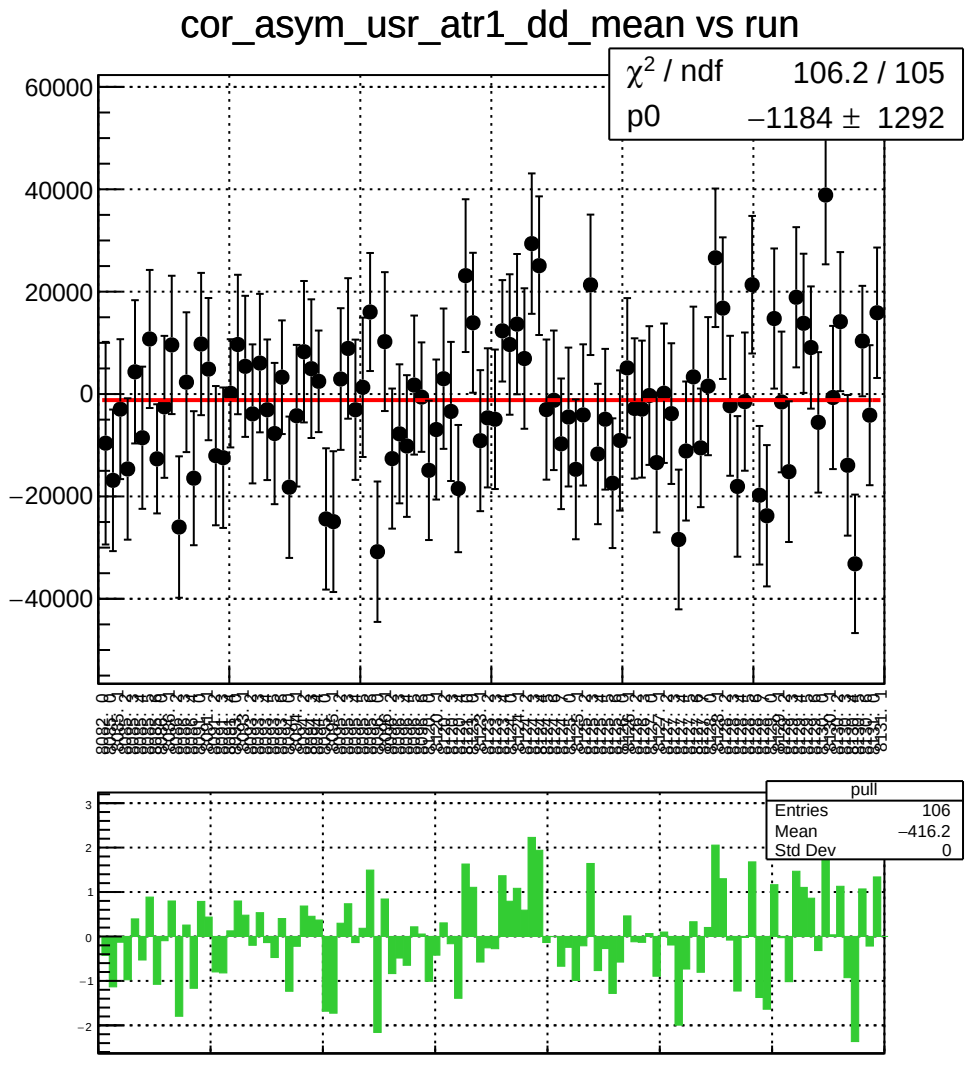

pull1D
Entries 106
Mean −0.009036
Std Dev 1.001
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

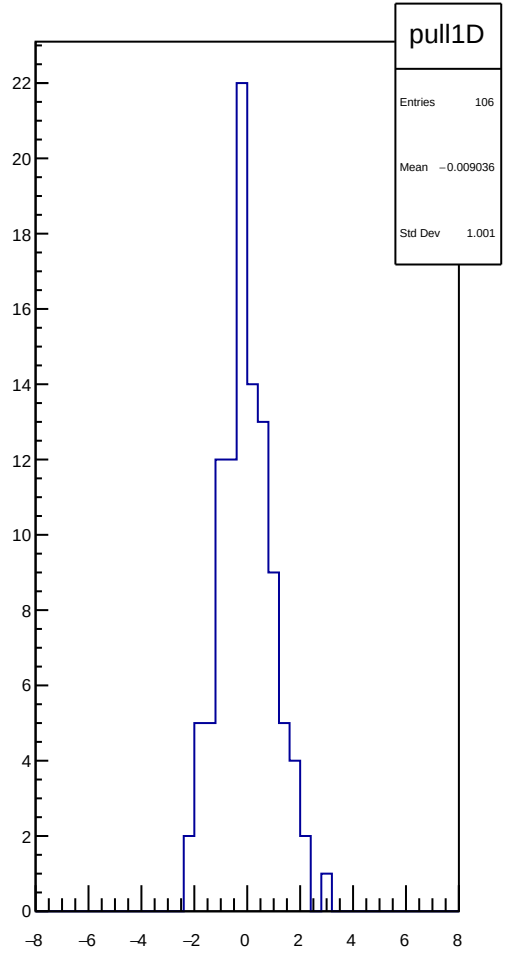

reg_asym_usr_atr1_dd_rms vs run
χ² / ndf 138.6 / 105
p0 1300 ± 0.9138
1340
1330
1320
1310
1300
1290
1280
1270
1260

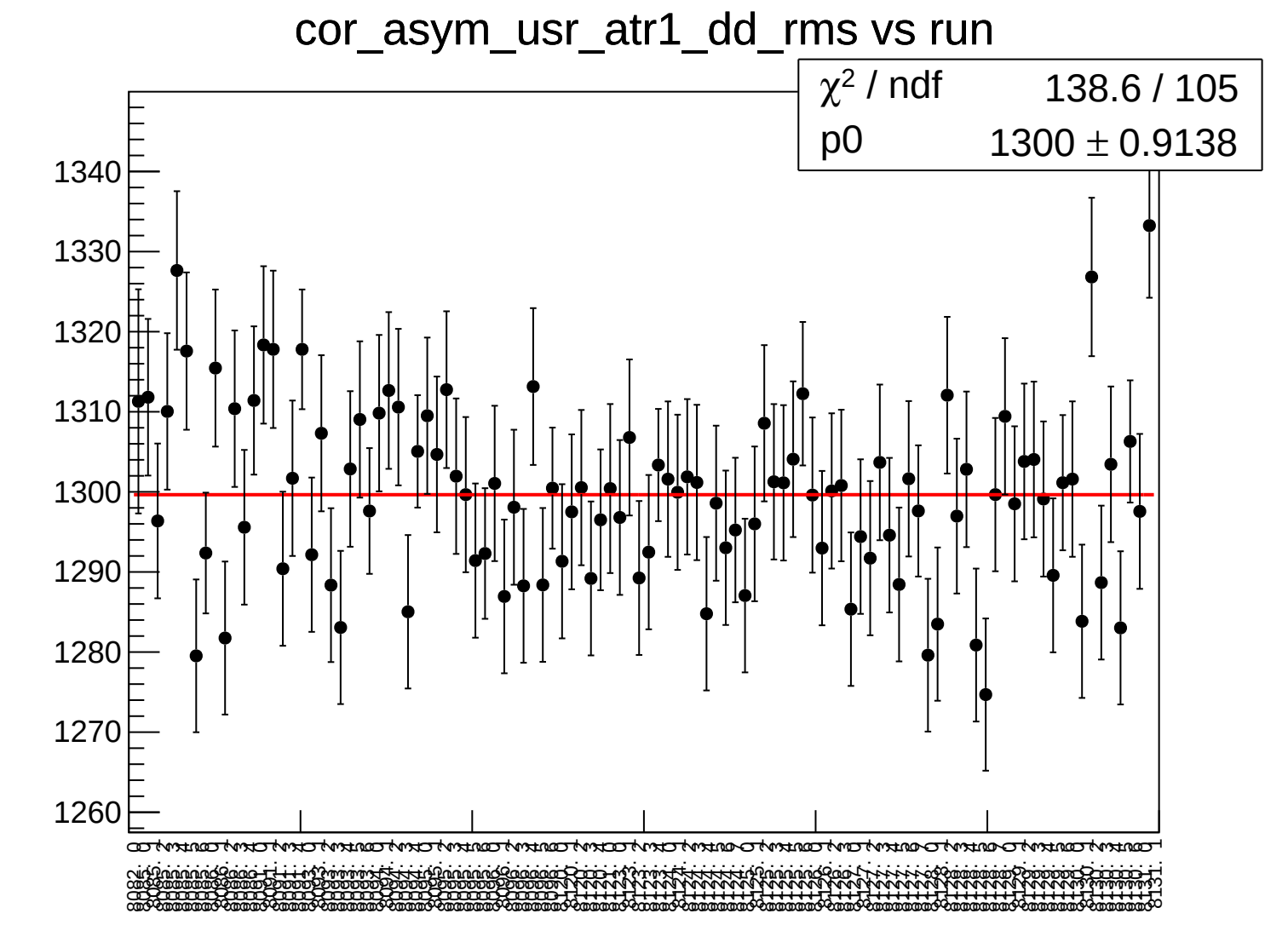

asym_usr_atr1_dd_reg_correction_mean vs run
χ² / ndf 75.1 / 105
p0 2258 ± 1563
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean 29.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

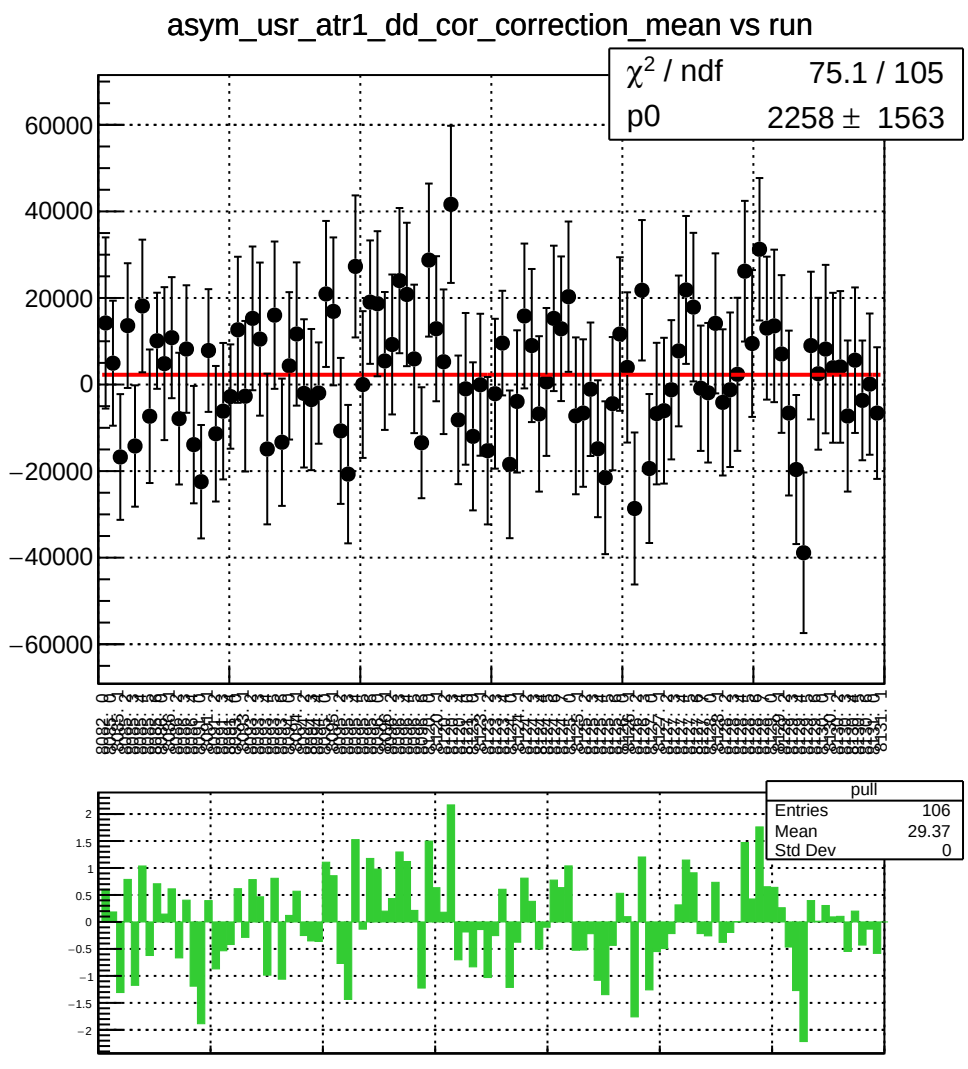

pull1D
Entries 106
Mean 0.01143
Std Dev 0.8417
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

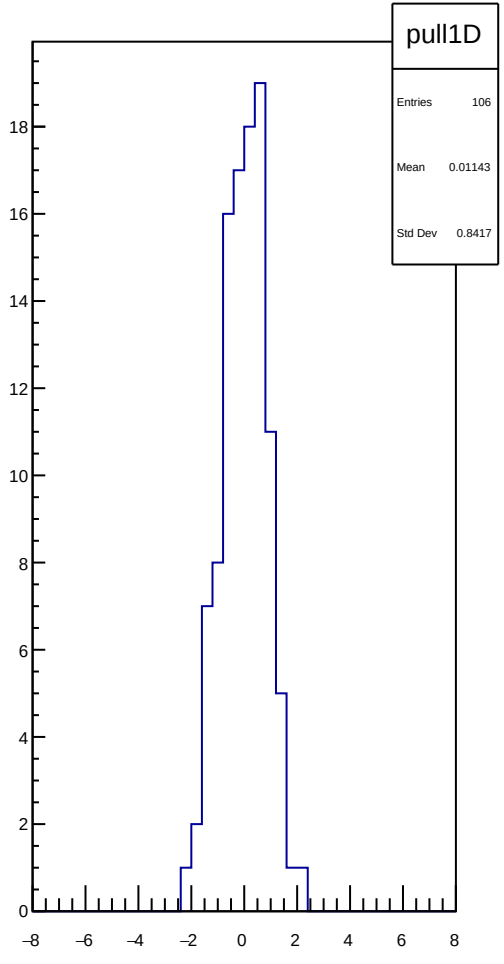

asym_usr_atr1_dd_reg_correction_rms vs run
χ² / ndf 1.083e+04 / 105
p0 1568 ± 1.105
1900
1800
1700
1600
1500
1400
1300
1200

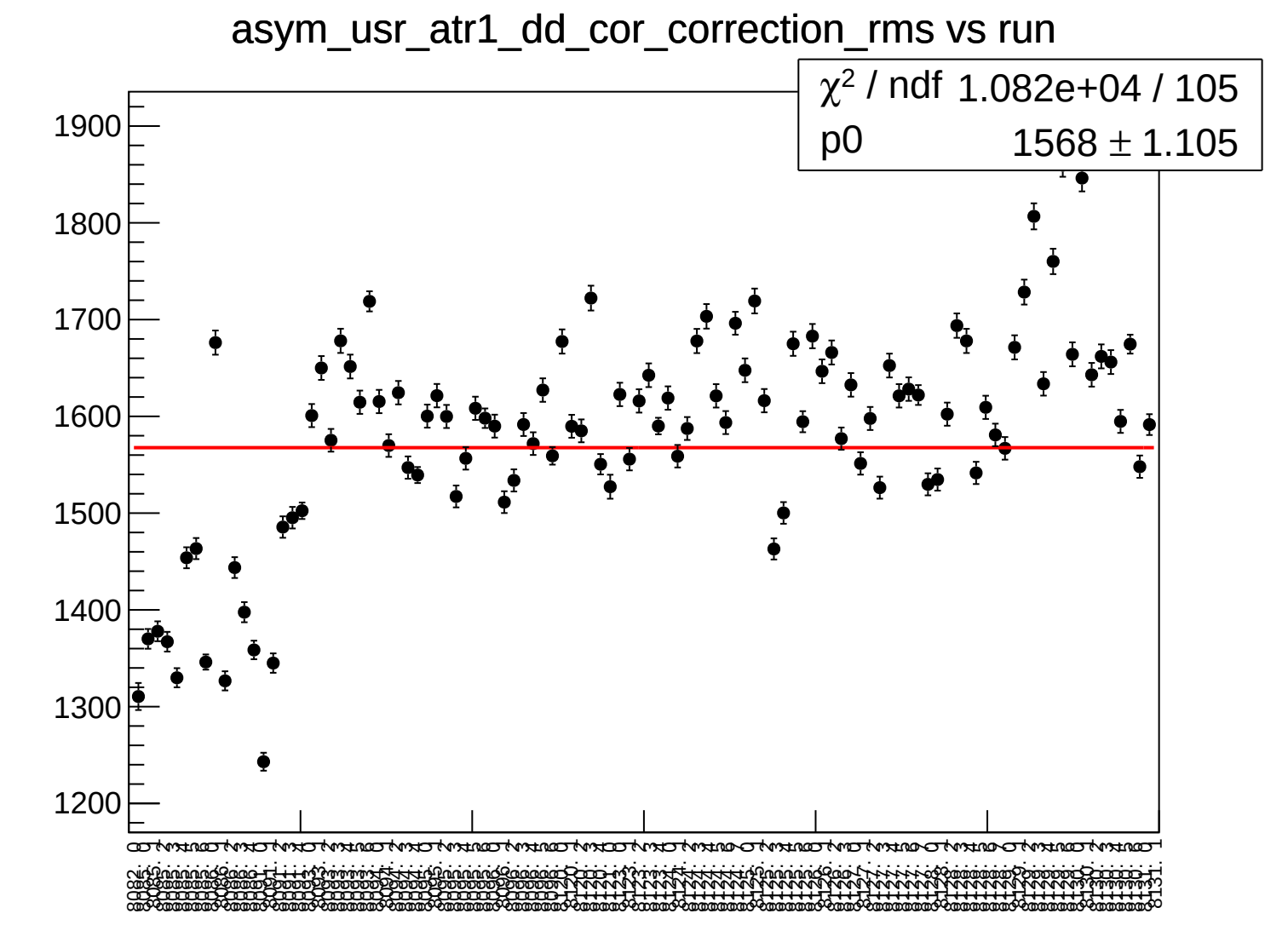

cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 106.2 / 105
p0 −1184 ± 1292
60000
40000
20000
0
−20000
−40000
pull
Entries 106
Mean −416.2
Std Dev 0
3
2
1
0
−1
−2

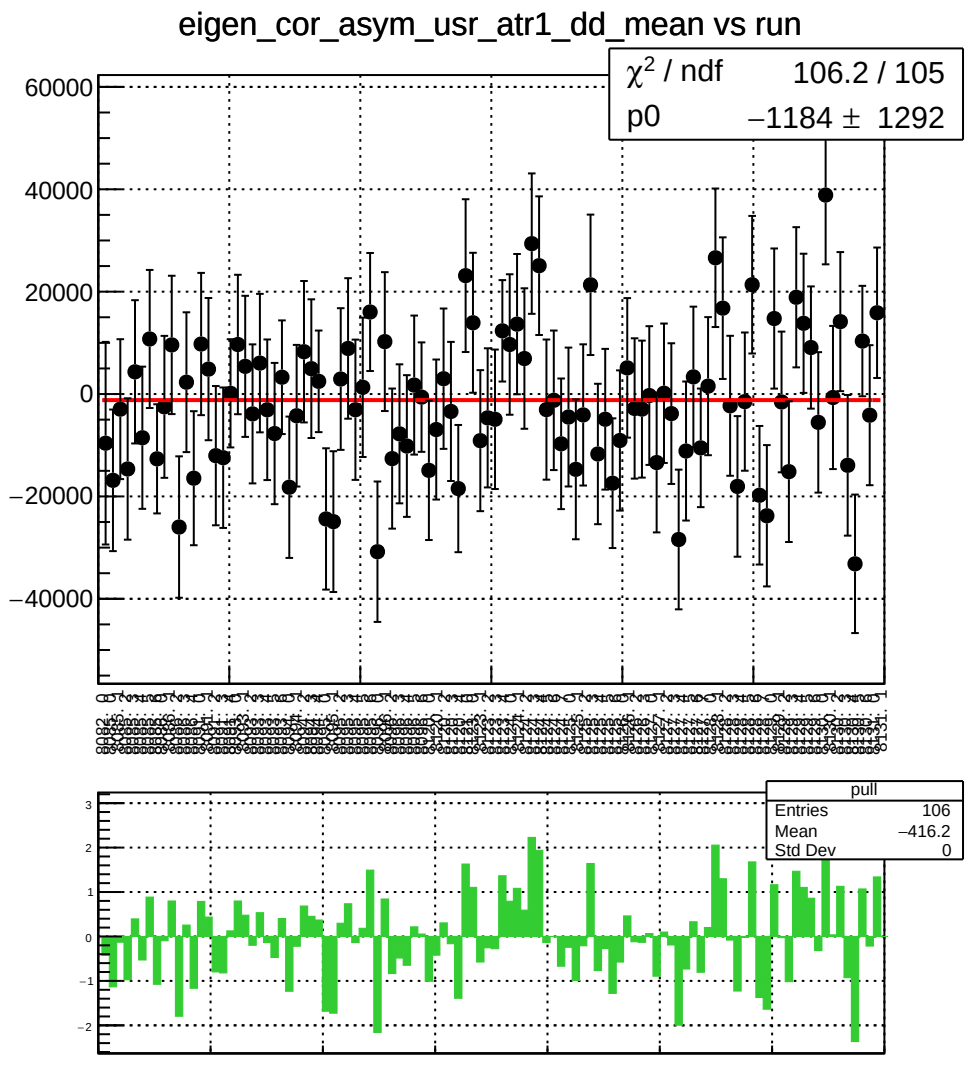

pull1D
Entries 106
Mean −0.009036
Std Dev 1.001
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

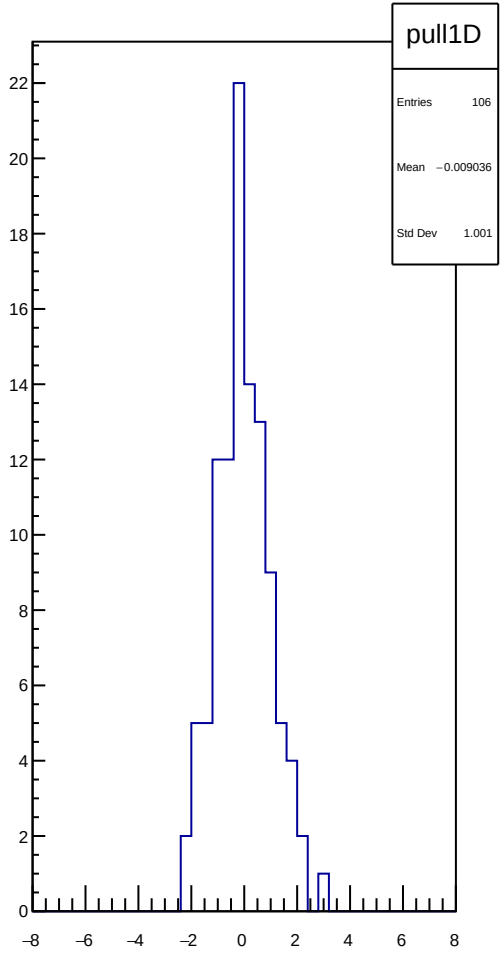

cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 138.6 / 105
p0 1300 ± 0.9138
1340
1330
1320
1310
1300
1290
1280
1270
1260

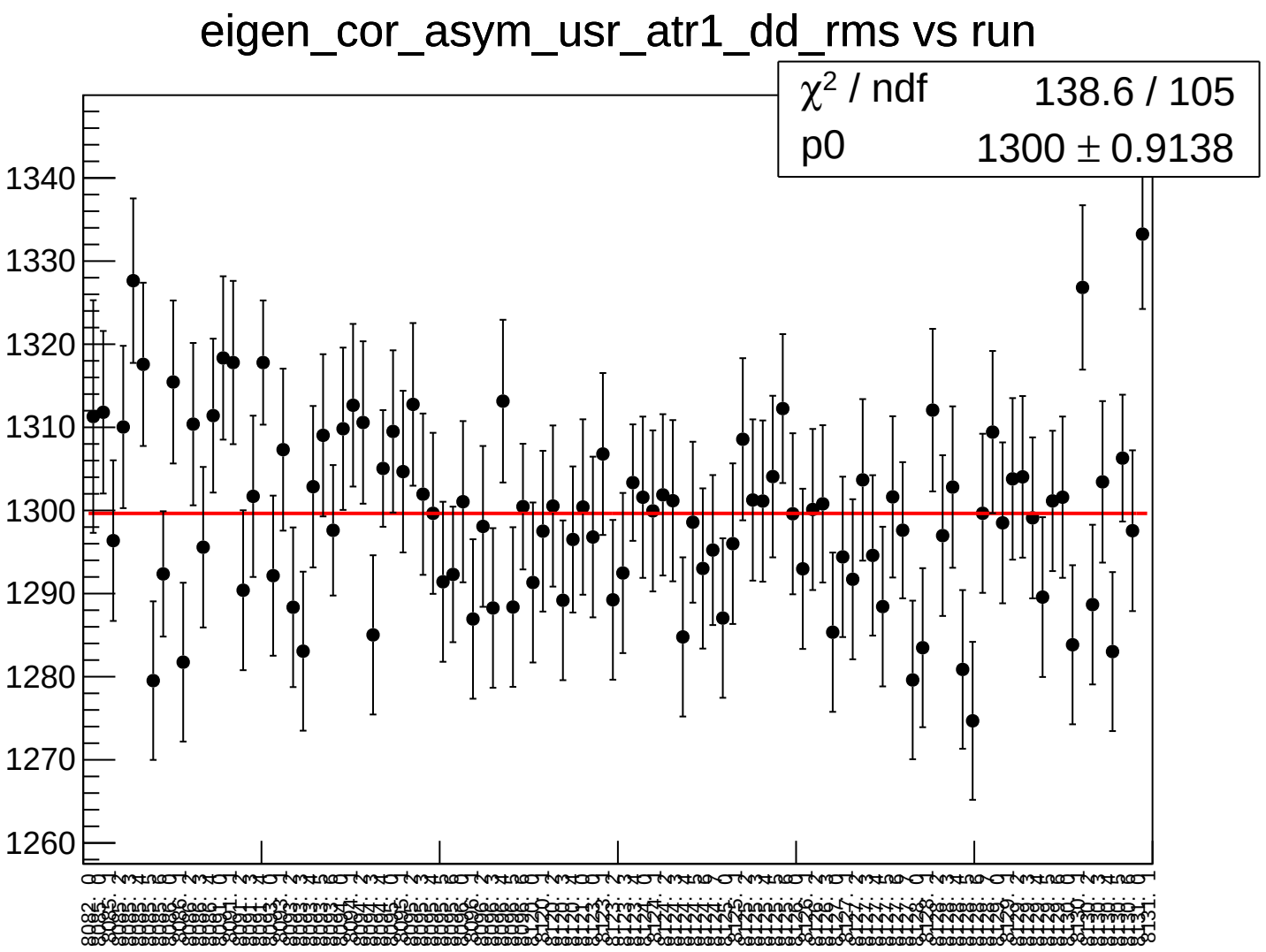

asym_usr_atr1_dd_cor_correction_mean vs run
χ² / ndf 75.1 / 105
p0 2258 ± 1563
pull
Entries 106
Mean 29.37
Std Dev 0

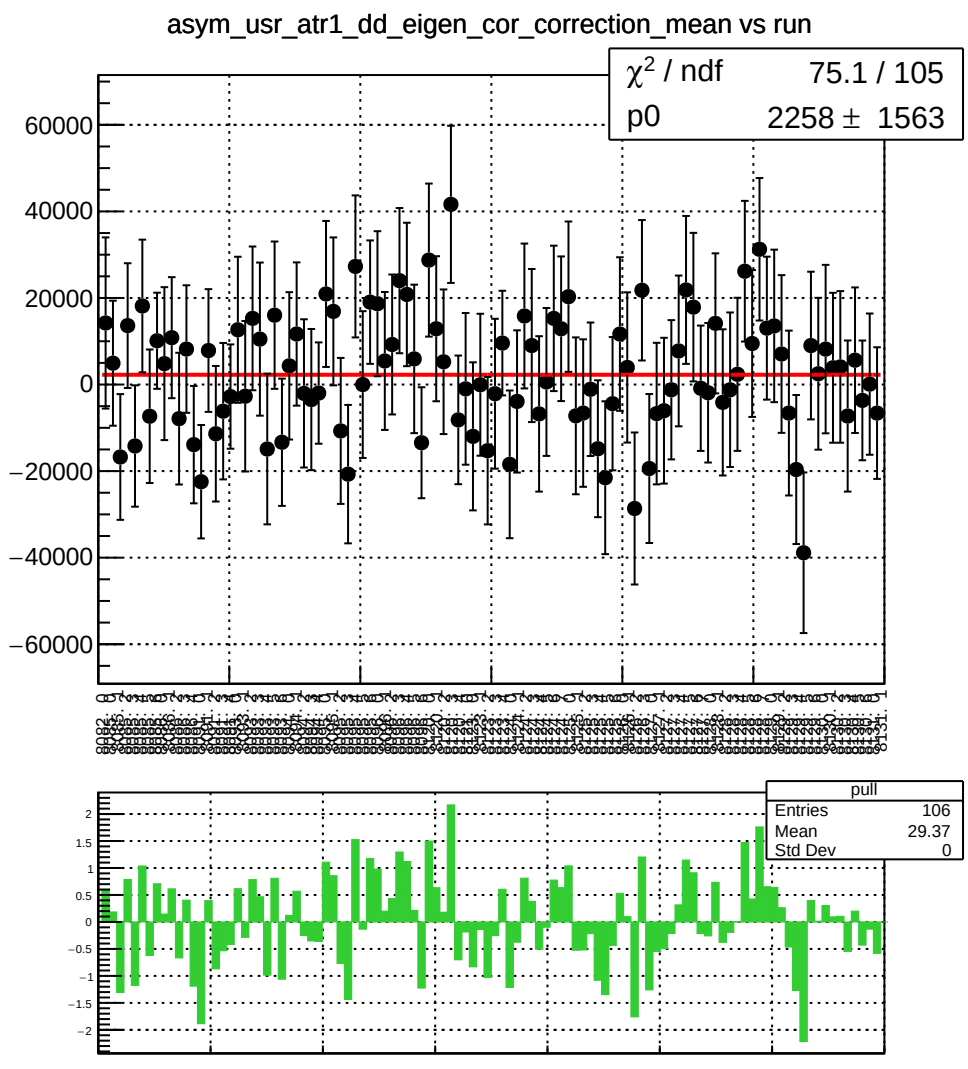

pull1D
Entries 106
Mean 0.01143
Std Dev 0.8417

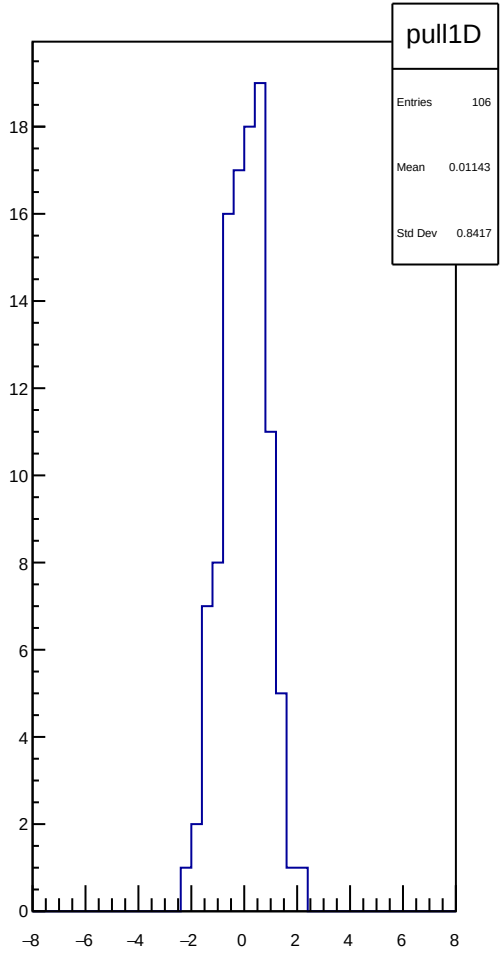

asym_usr_atr1_dd_cor_correction_rms vs run
χ² / ndf 1.082e+04 / 105
p0 1568 ± 1.105
1900
1800
1700
1600
1500
1400
1300
1200

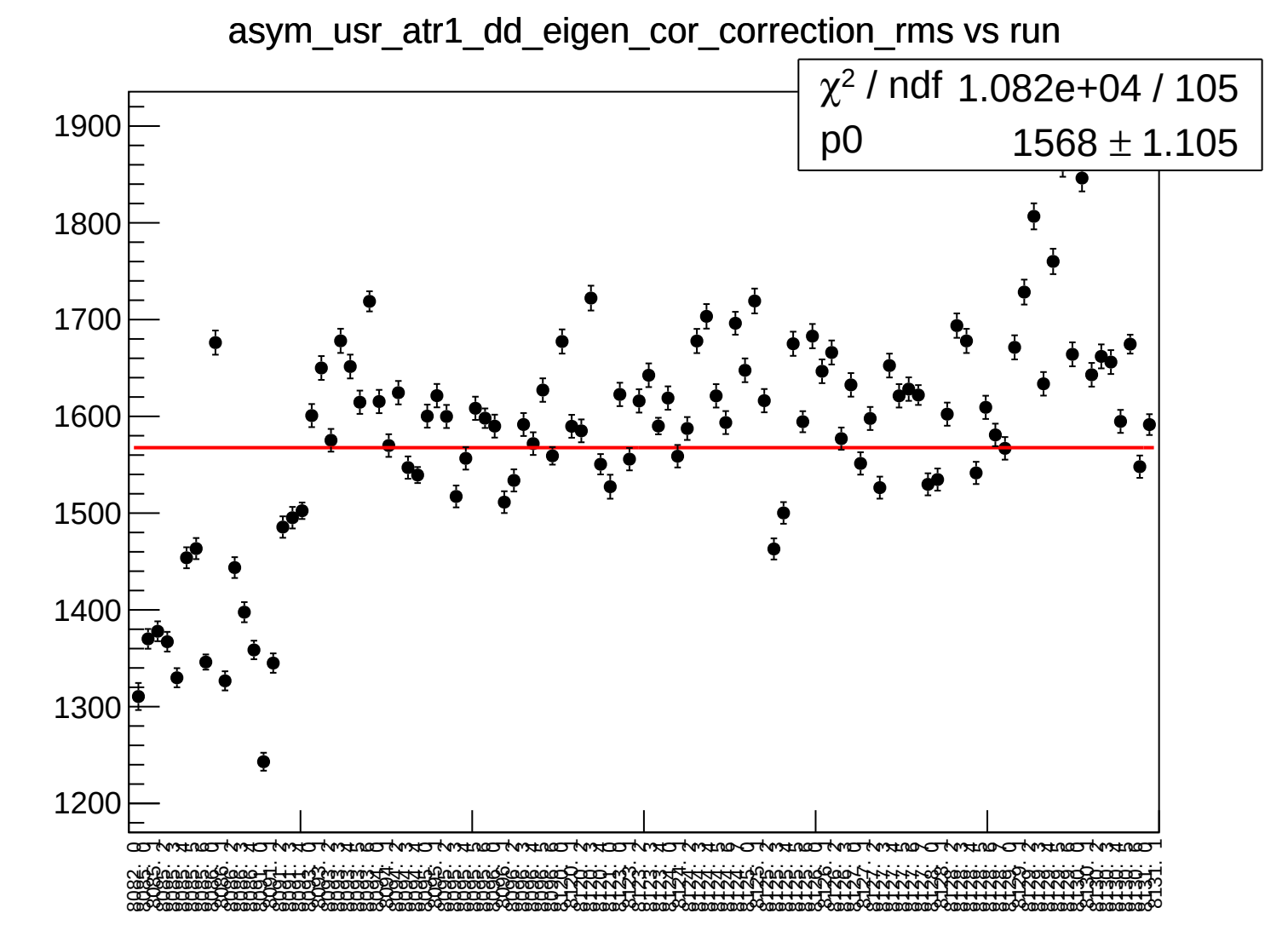

eigen_cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 106.2 / 105
p0 −1184 ± 1292
60000
40000
20000
0
−20000
−40000
pull
Entries 106
Mean −416.2
Std Dev 0
3
2
1
0
−1
−2

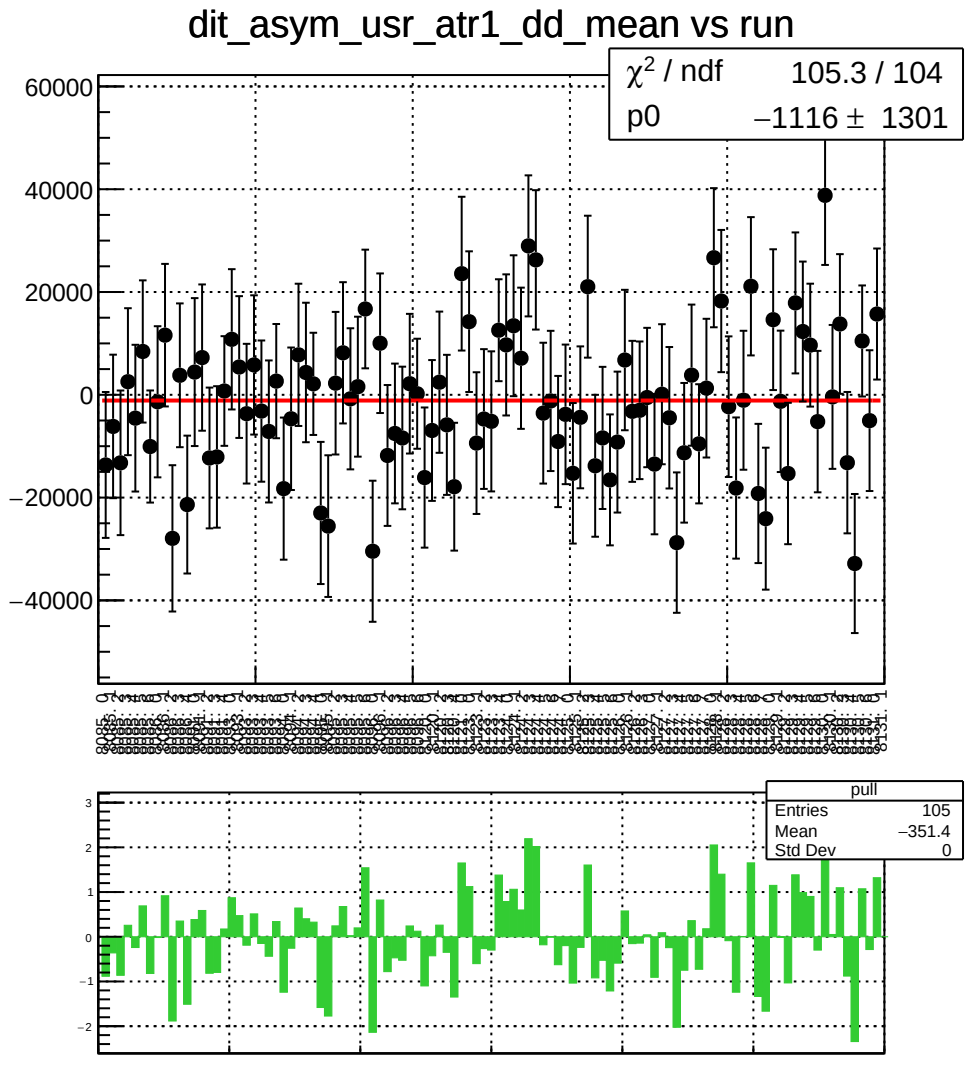

pull1D
Entries 106
Mean −0.009036
Std Dev 1.001
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

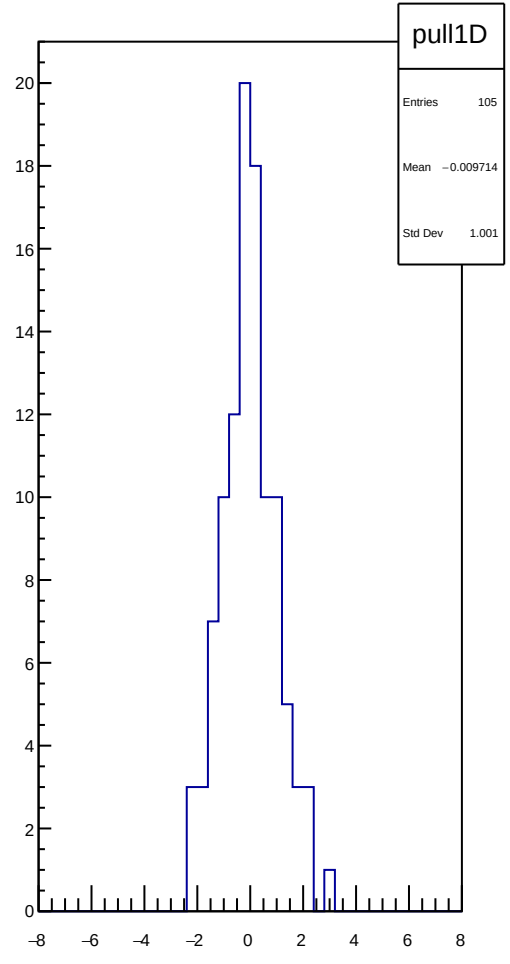

eigen_cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 138.6 / 105
p0 1300 ± 0.9138
1340
1330
1320
1310
1300
1290
1280
1270
1260

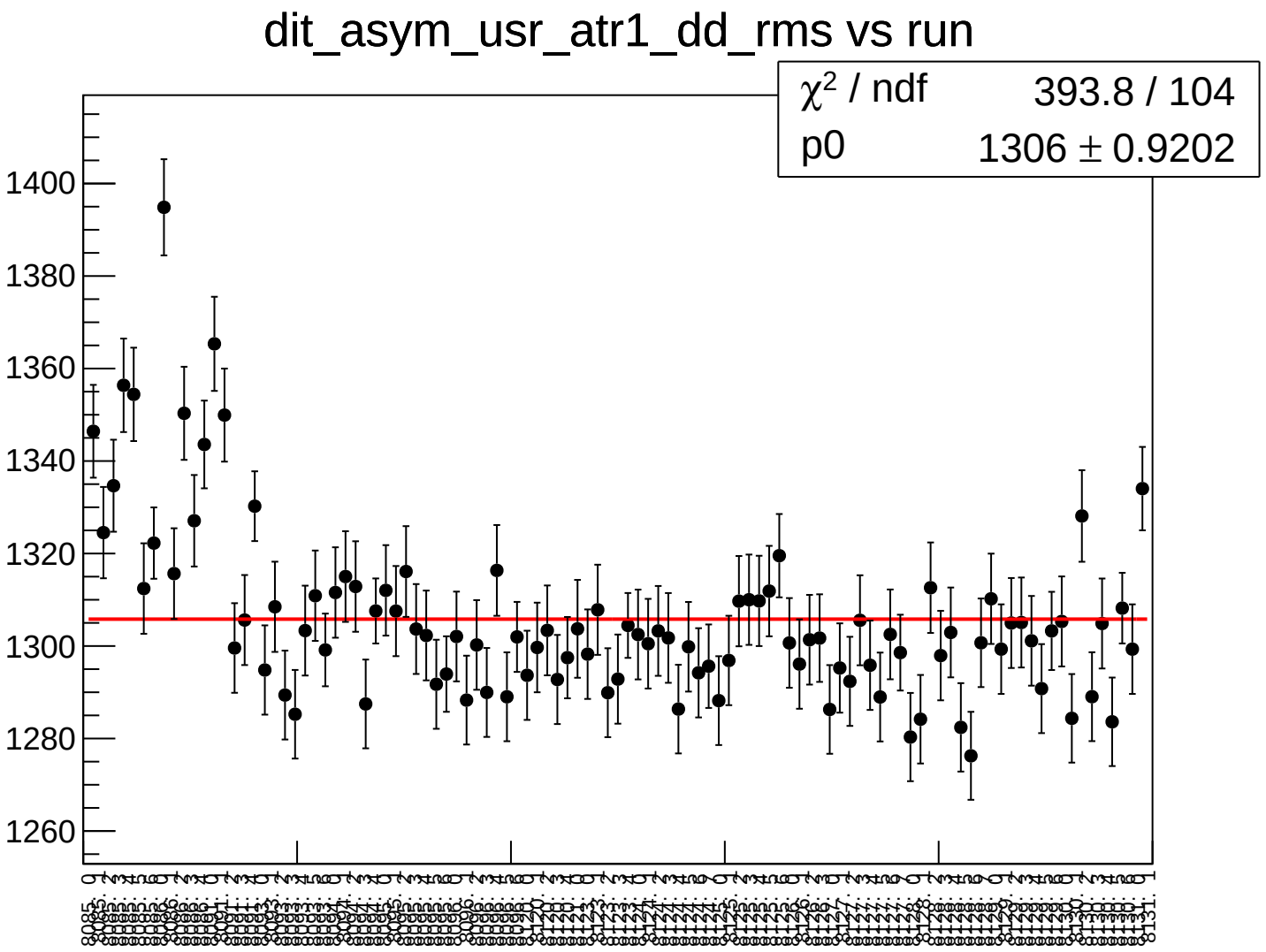

asym_usr_atr1_dd_eigen_cor_correction_mean vs run
χ² / ndf 75.1 / 105
p0 2258 ± 1563
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean 29.37
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

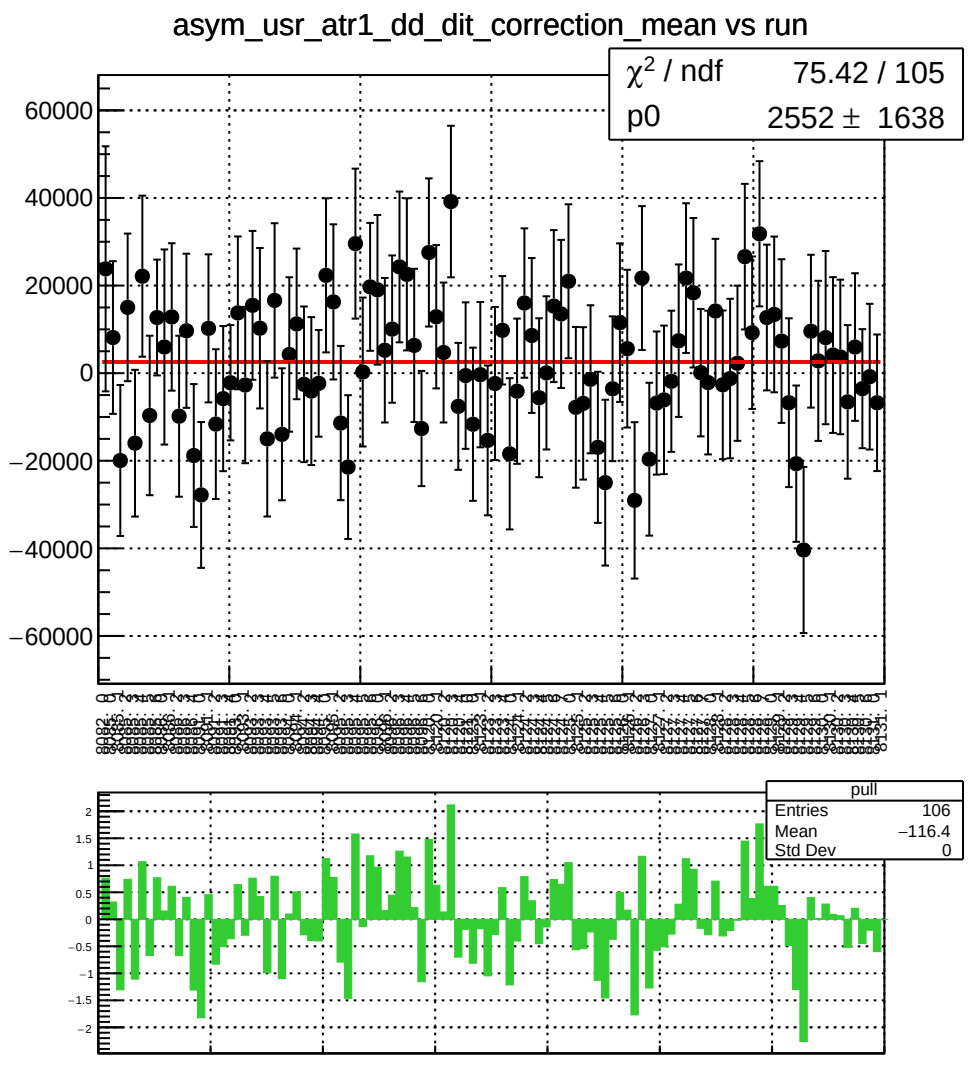

pull1D
Entries 106
Mean 0.01143
Std Dev 0.8417
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

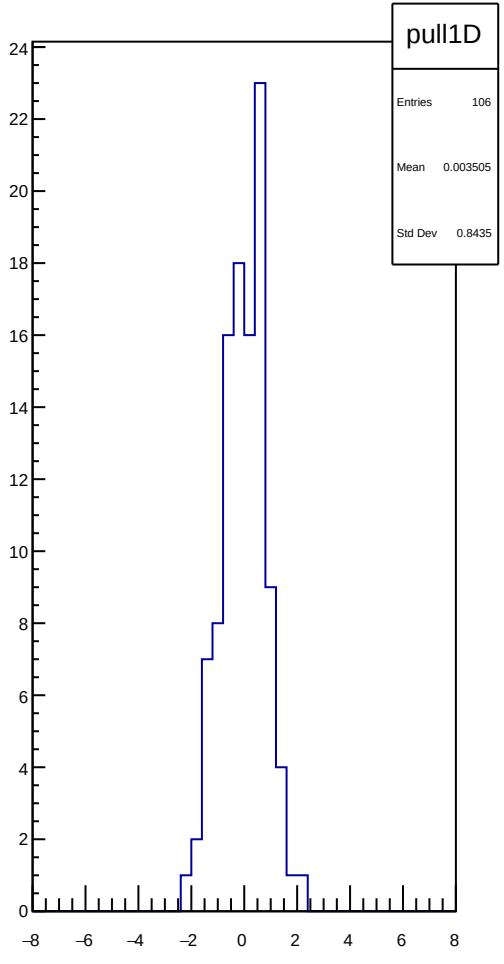

asym_usr_atr1_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.082e+04 / 105
p0 1568 ± 1.105
1900
1800
1700
1600
1500
1400
1300
1200

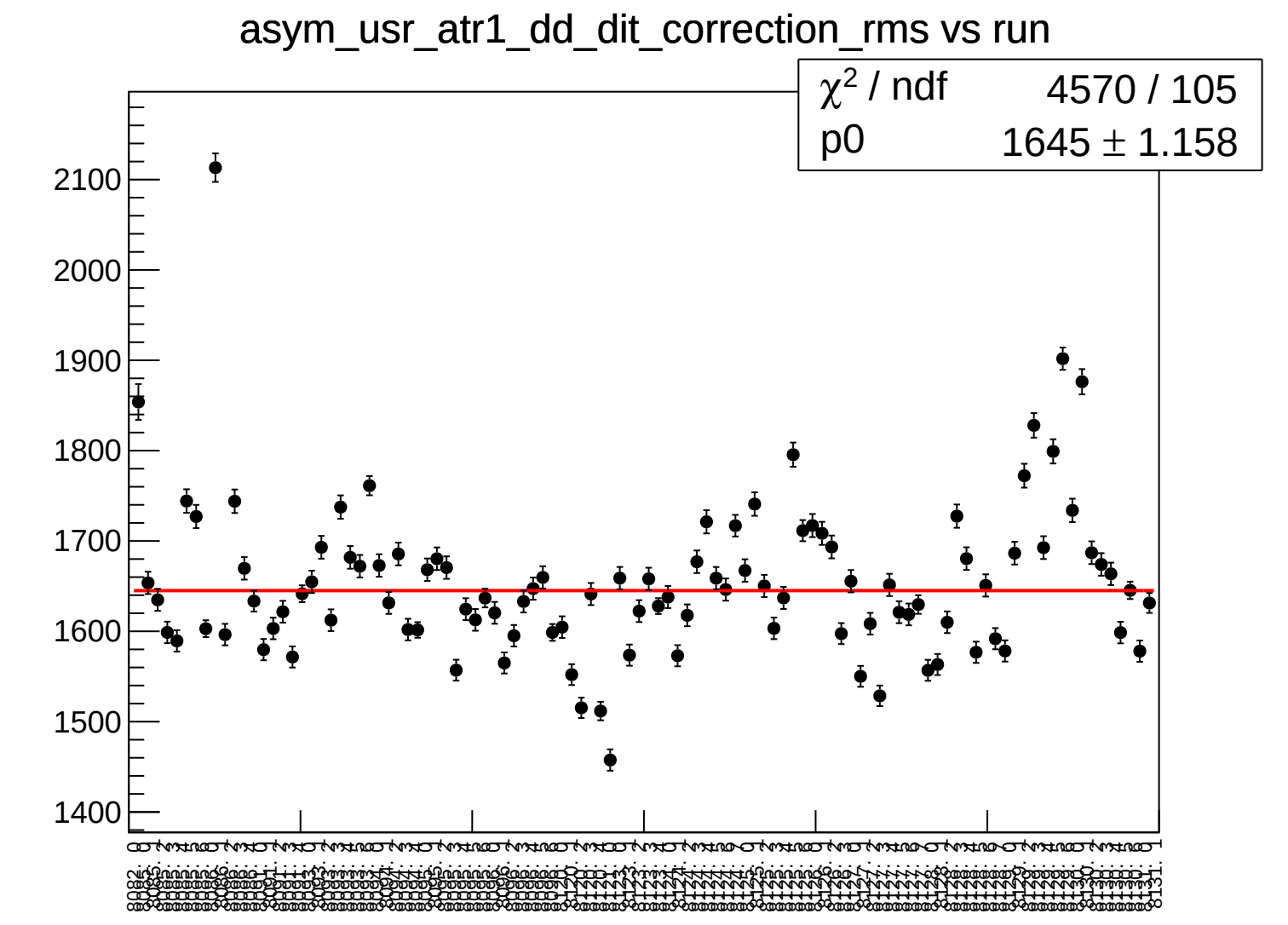

dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 105.3 / 104
p0 −1116 ± 1301
60000
40000
20000
0
−20000
−40000
pull
Entries 105
Mean −351.4
Std Dev 0
3
2
1
0
−1
−2

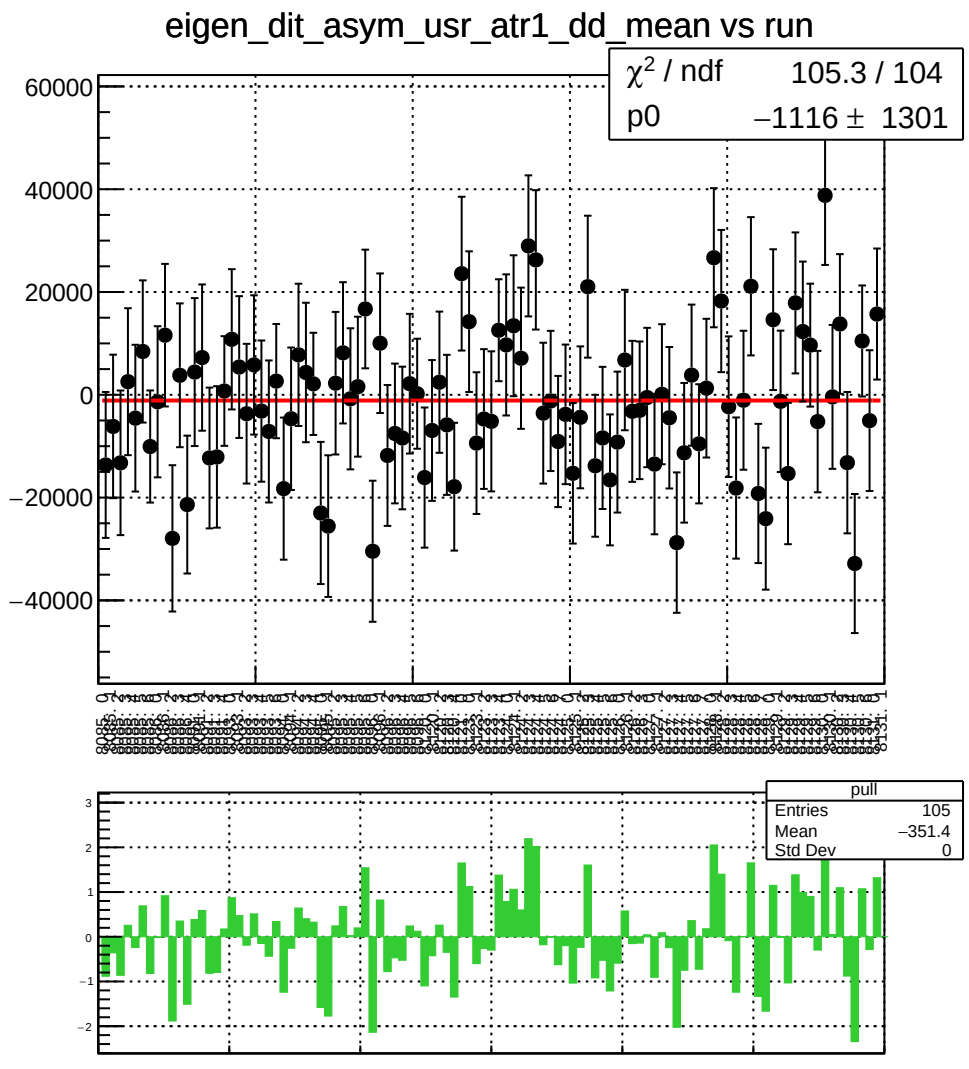

pull1D
Entries 105
Mean −0.009714
Std Dev 1.001
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

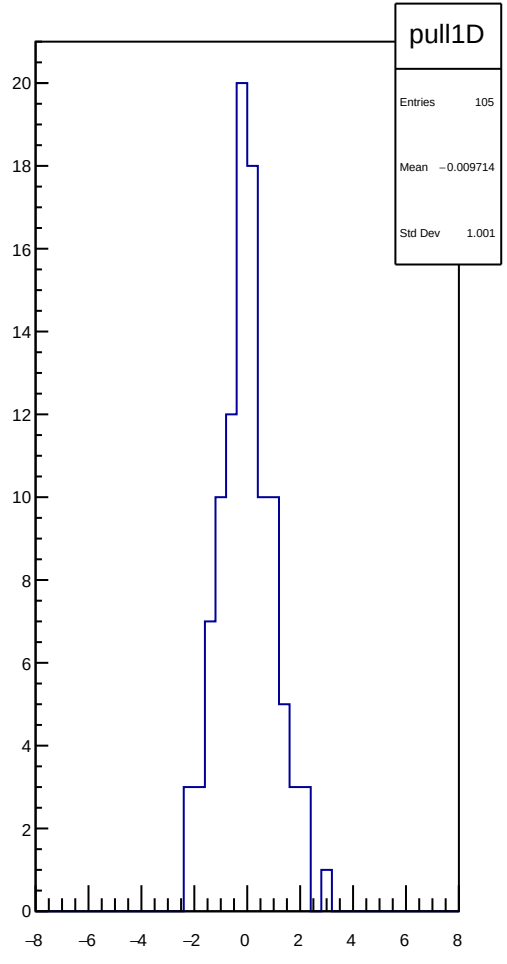

dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 393.8 / 104
p0 1306 ± 0.9202
1400
1380
1360
1340
1320
1300
1280
1260

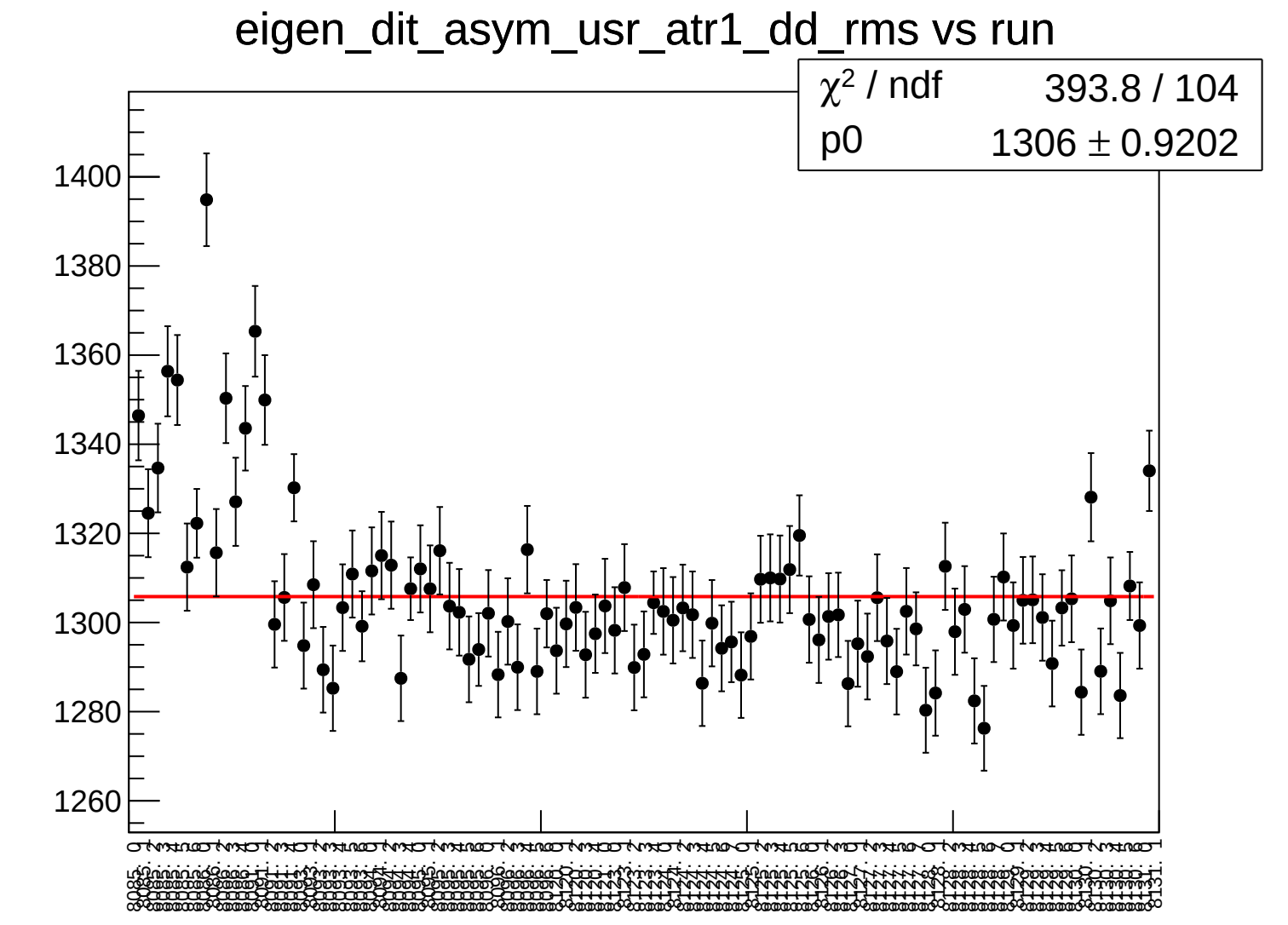

asym_usr_atr1_dd_dit_correction_mean vs run
χ² / ndf 75.42 / 105
p0 2552 ± 1638
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean −116.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

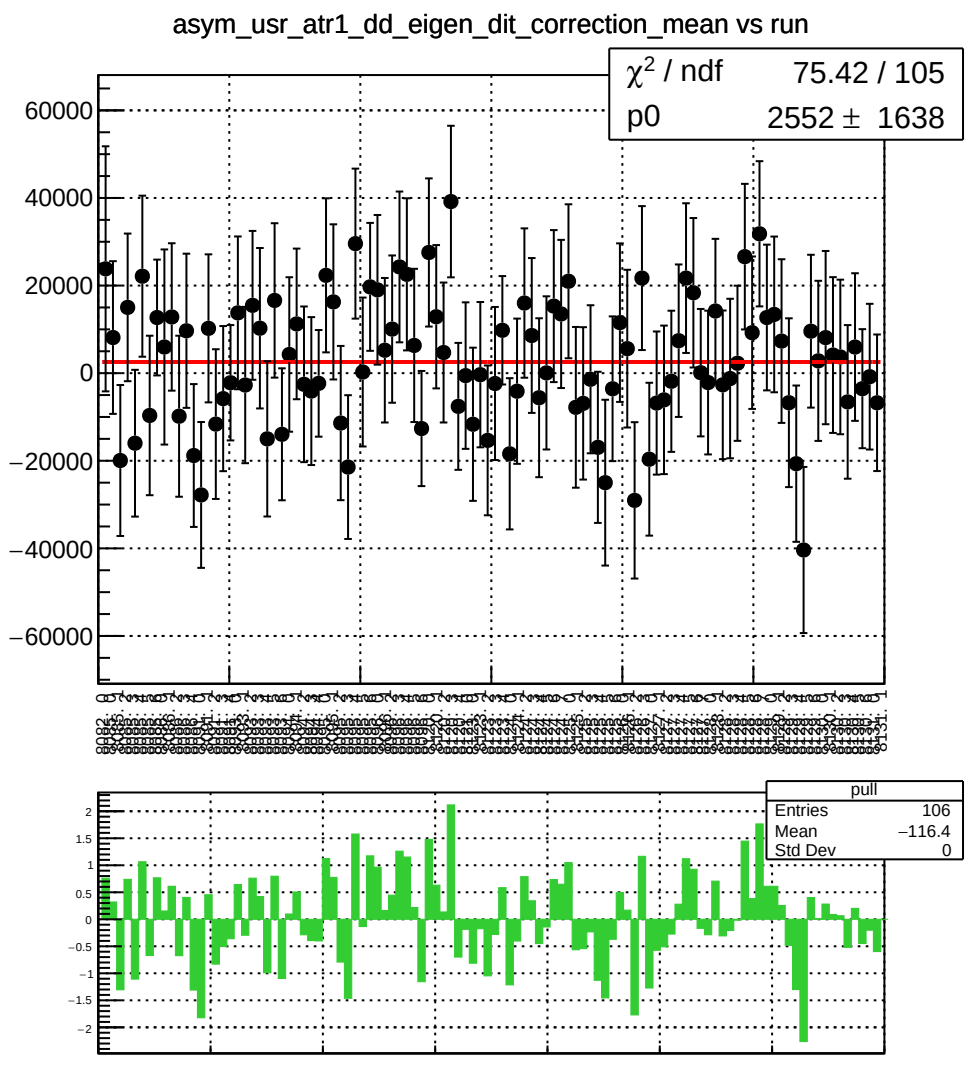

pull1D
Entries 106
Mean 0.003505
Std Dev 0.8435
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

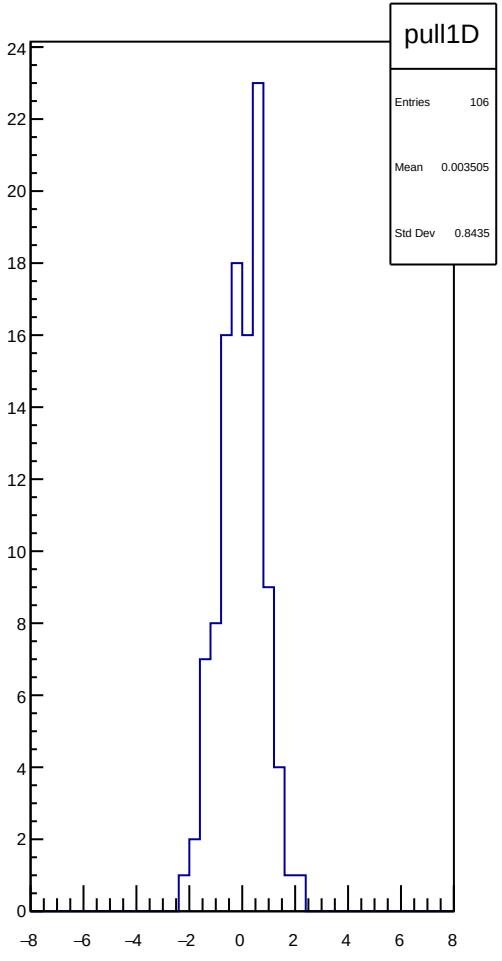

asym_usr_atr1_dd_dit_correction_rms vs run
χ² / ndf 4570 / 105
p0 1645 ± 1.158
2100
2000
1900
1800
1700
1600
1500
1400

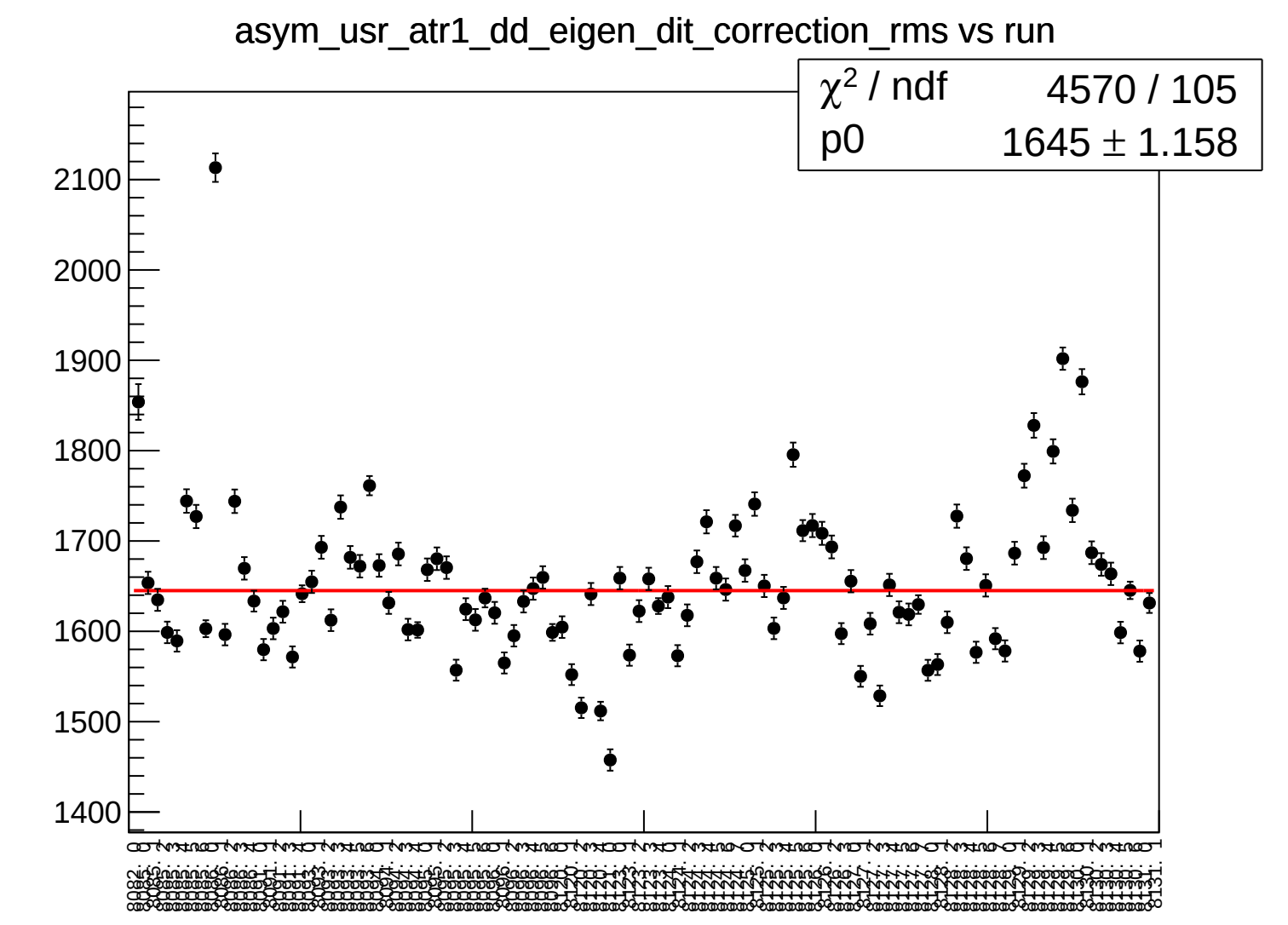

eigen_dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 105.3 / 104
p0 −1116 ± 1301
60000
40000
20000
0
−20000
−40000
pull
Entries 105
Mean −351.4
Std Dev 0
3
2
1
0
−1
−2

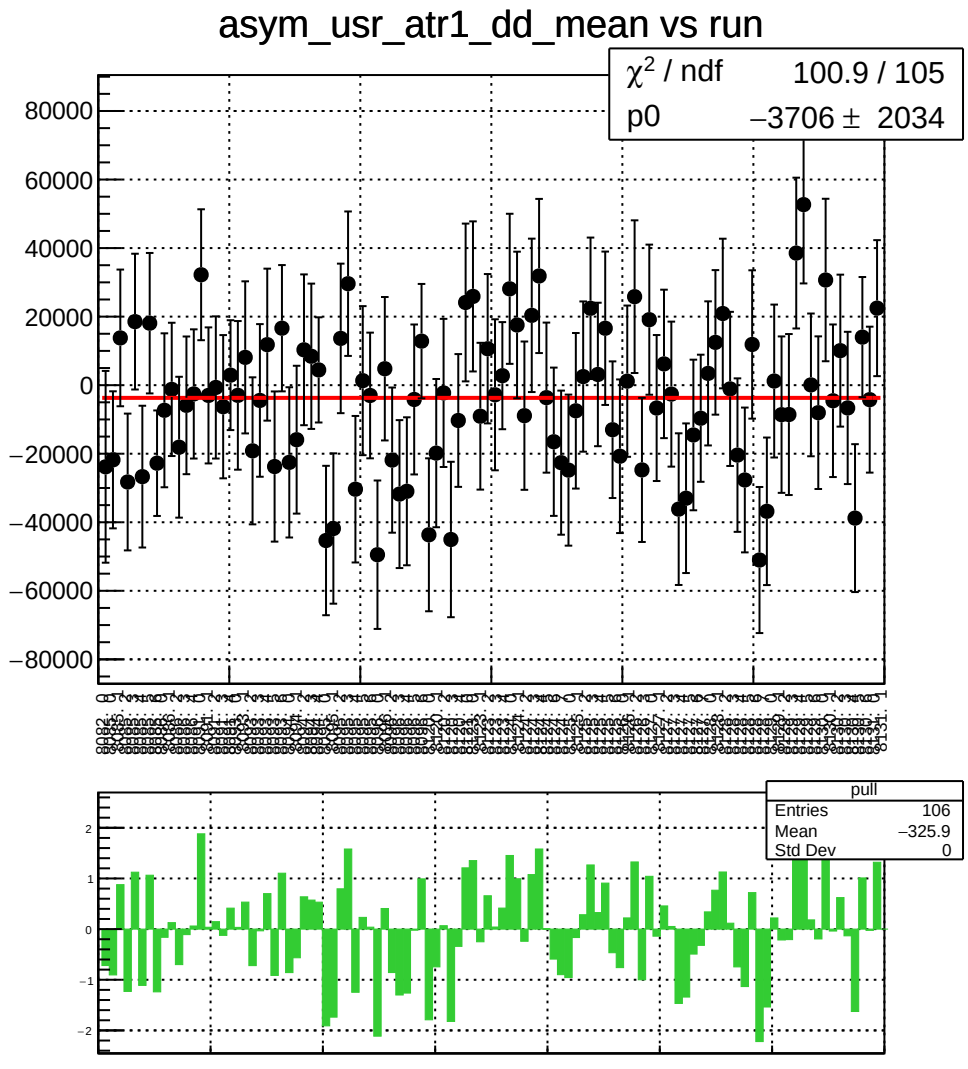

pull1D
Entries 105
Mean −0.009714
Std Dev 1.001
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

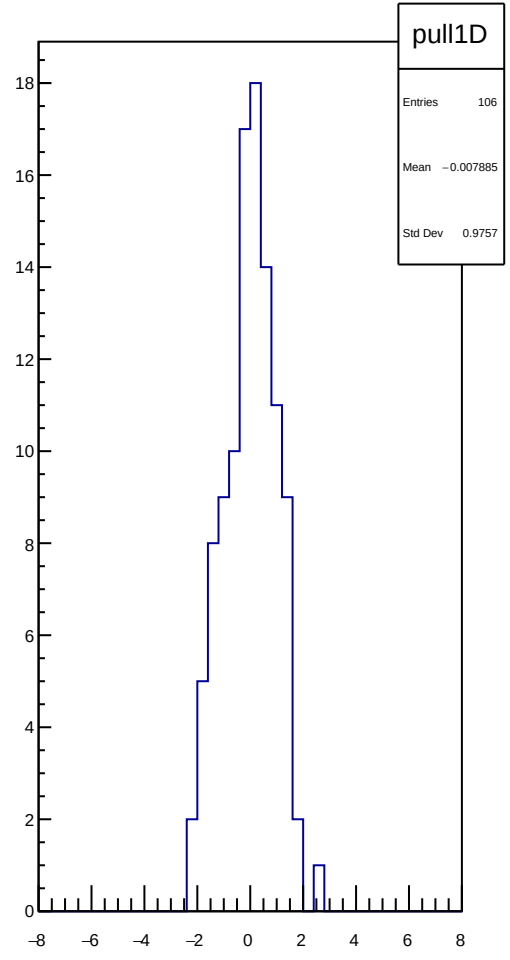

eigen_dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 393.8 / 104
p0 1306 ± 0.9202
1400
1380
1360
1340
1320
1300
1280
1260

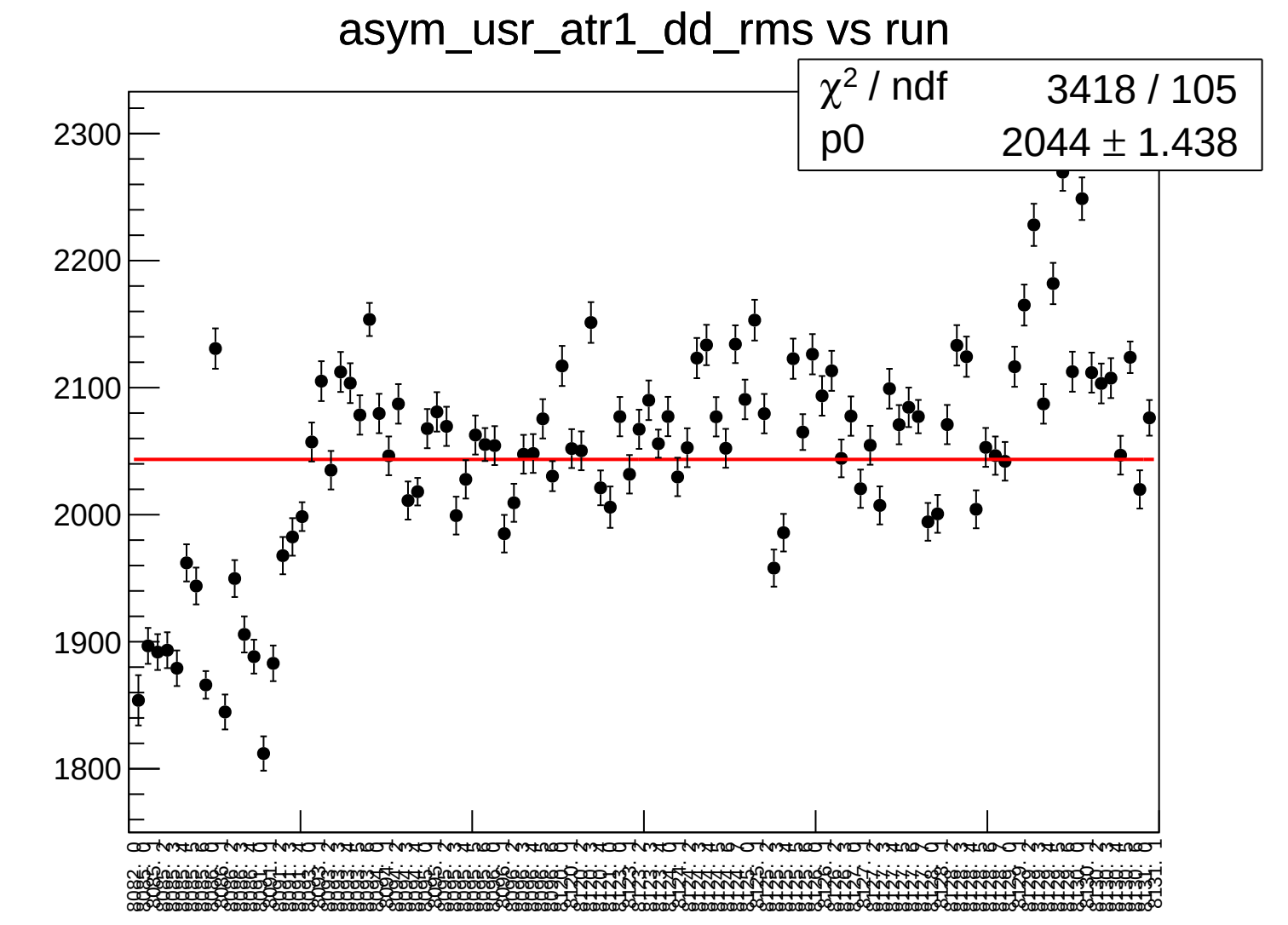

asym_usr_atr1_dd_eigen_dit_correction_mean vs run
χ² / ndf 75.42 / 105
p0 2552 ± 1638
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean −116.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

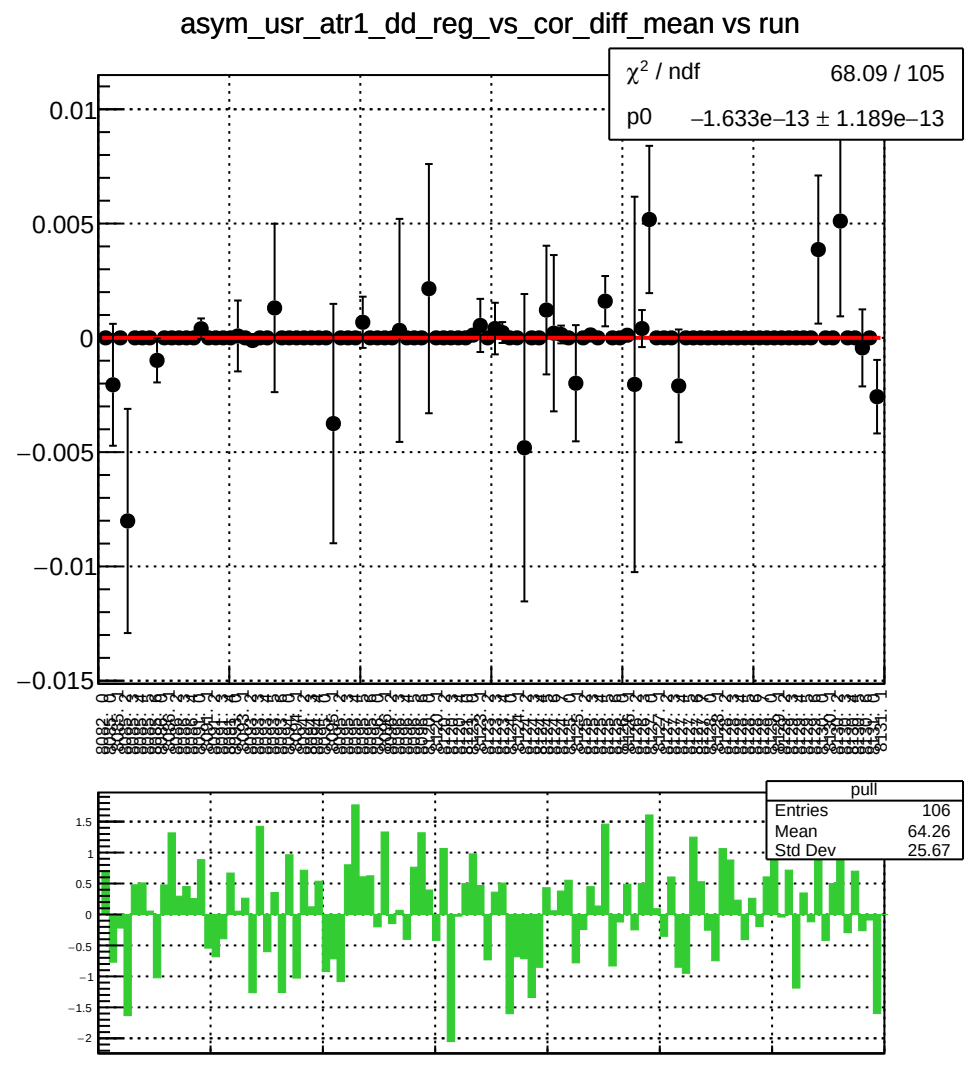

pull1D
Entries 106
Mean 0.003505
Std Dev 0.8435
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

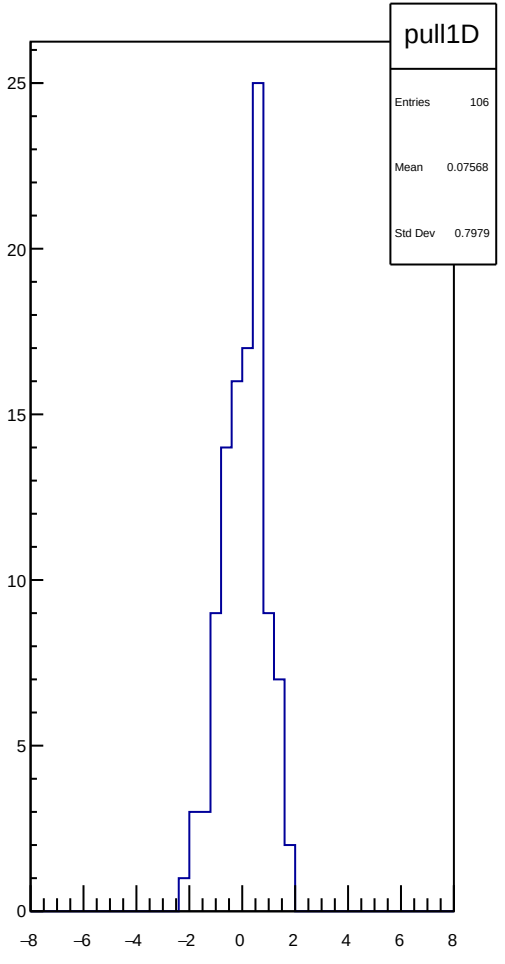

asym_usr_atr1_dd_eigen_dit_correction_rms vs run
χ² / ndf 4570 / 105
p0 1645 ± 1.158
2100
2000
1900
1800
1700
1600
1500
1400

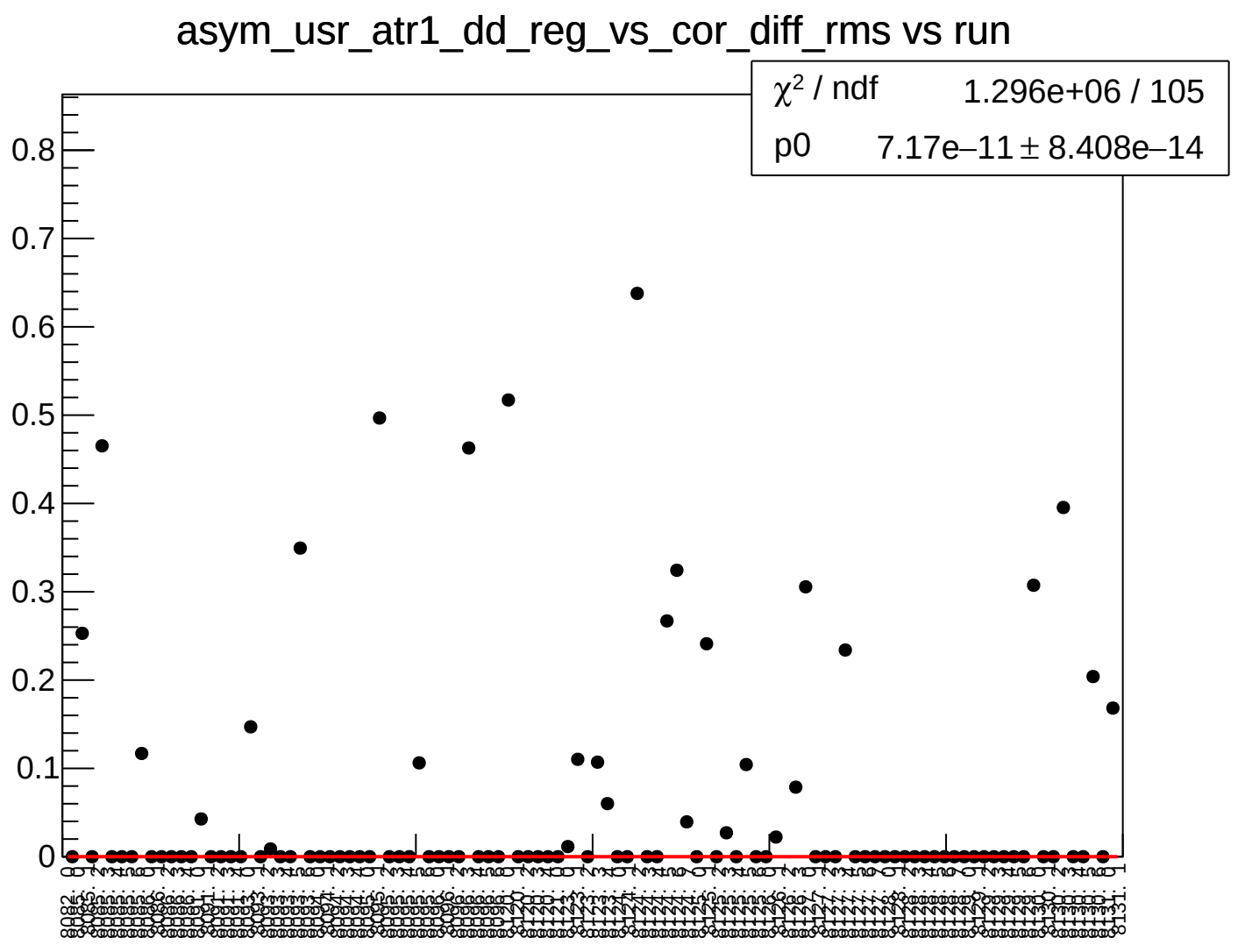

asym_usr_atr1_dd_mean vs run
χ² / ndf 100.9 / 105
p0 −3706 ± 2034
pull
Entries 106
Mean −325.9
Std Dev 0

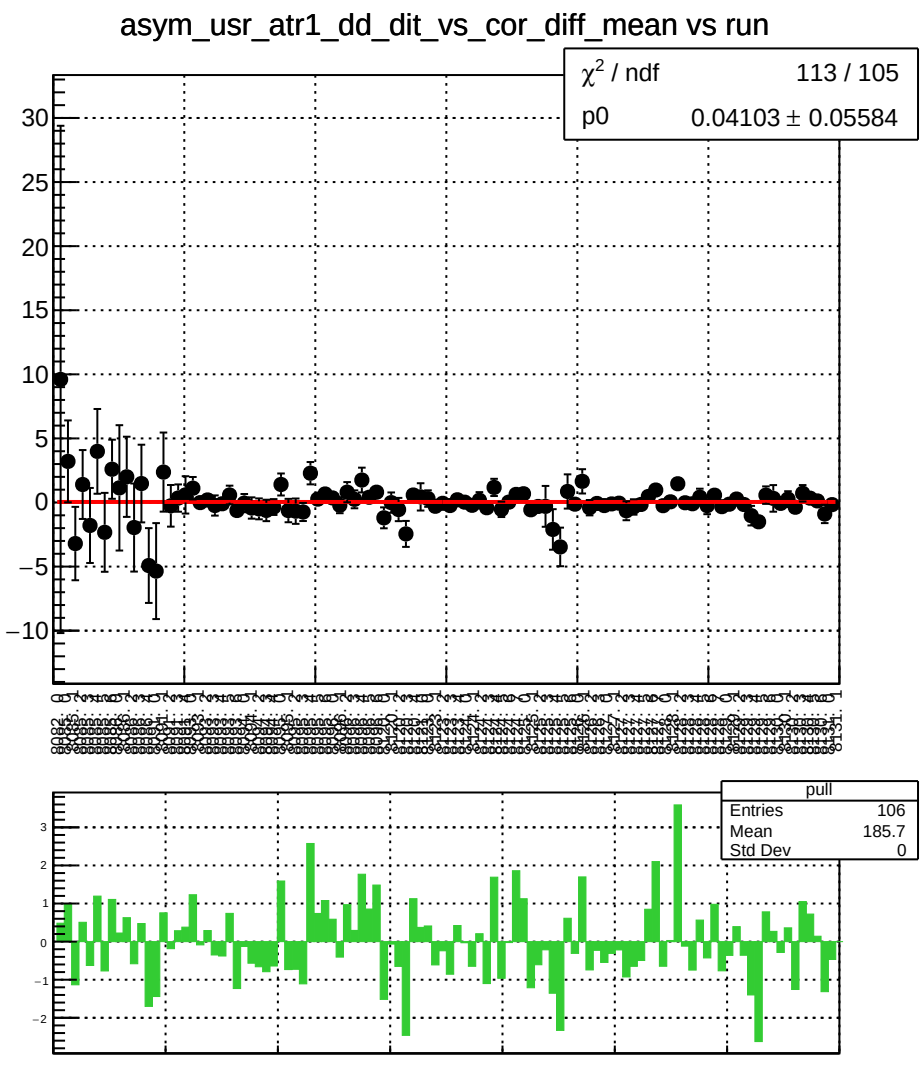

pull1D
Entries 106
Mean −0.007885
Std Dev 0.9757

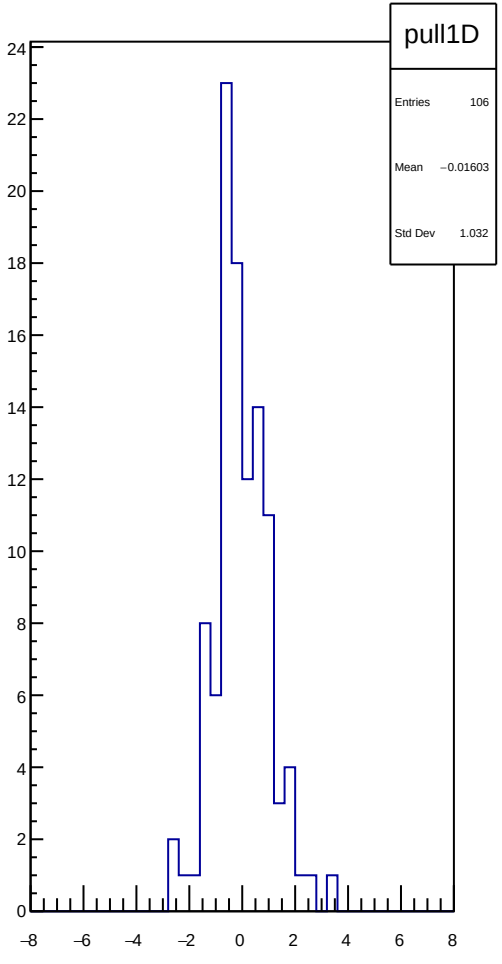

asym_usr_atr1_dd_rms vs run
χ² / ndf 3418 / 105
p0 2044 ± 1.438
2300
2200
2100
2000
1900
1800

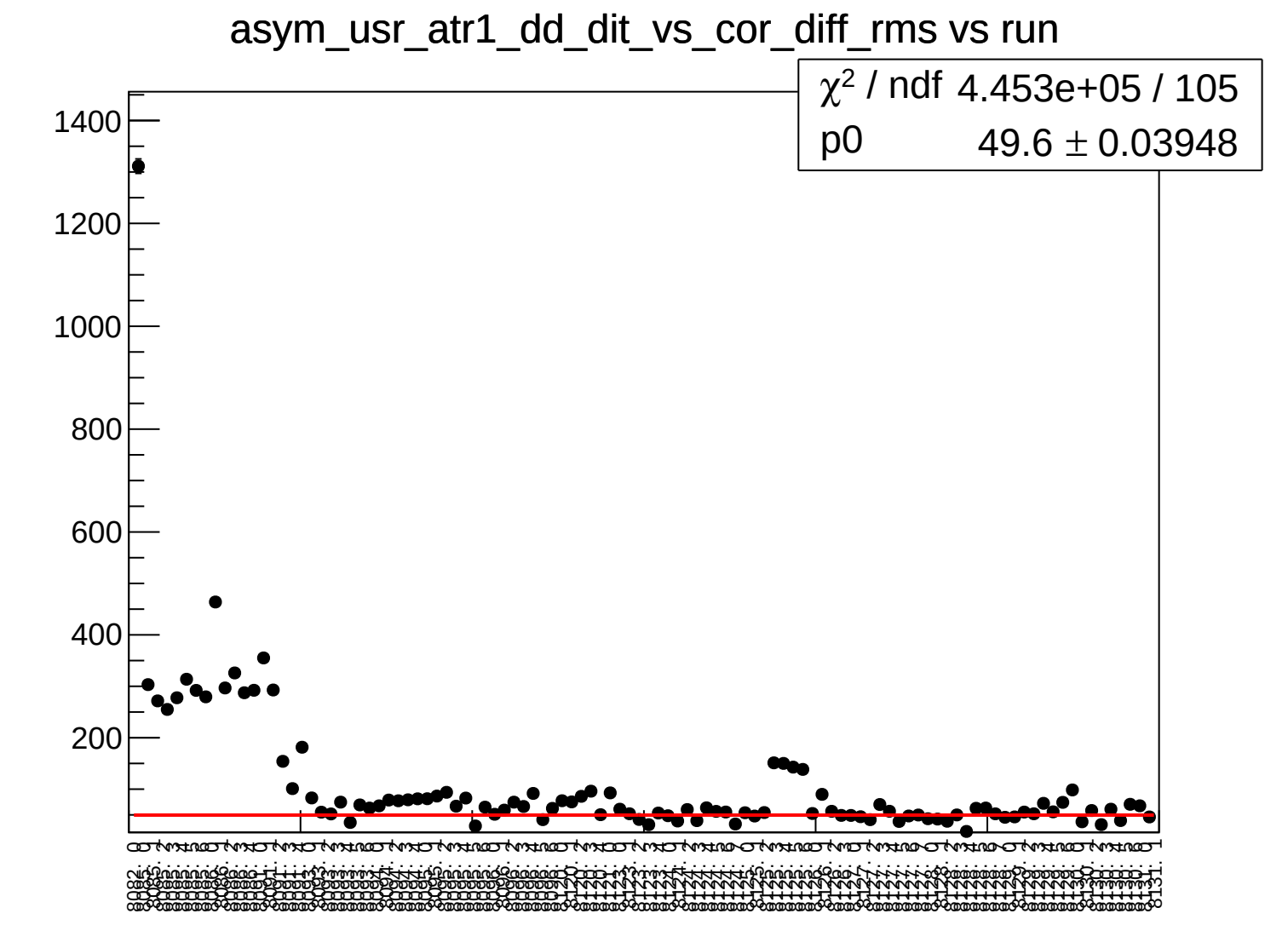

asym_usr_atr1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 68.09 / 105
p0 −1.633e−13 ± 1.189e−13
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 106
Mean 64.26
Std Dev 25.67
1.5
1
0.5
0
−0.5
−1
−1.5
−2

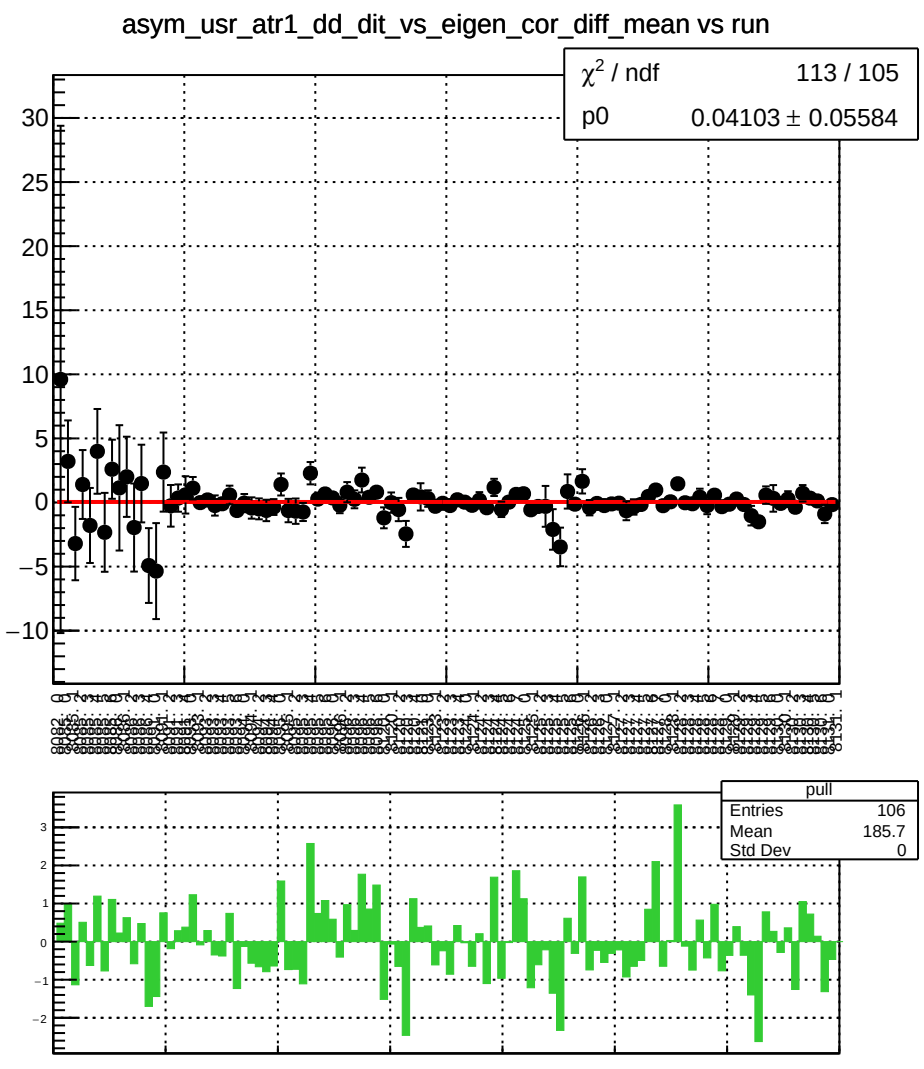

pull1D
Entries 106
Mean 0.07568
Std Dev 0.7979
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

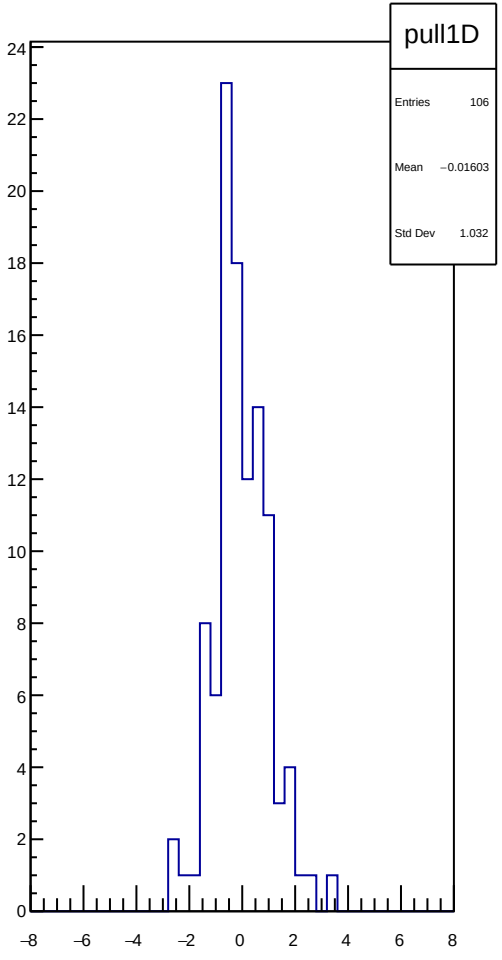

asym_usr_atr1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.296e+06 / 105
p0 7.17e−11 ± 8.408e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

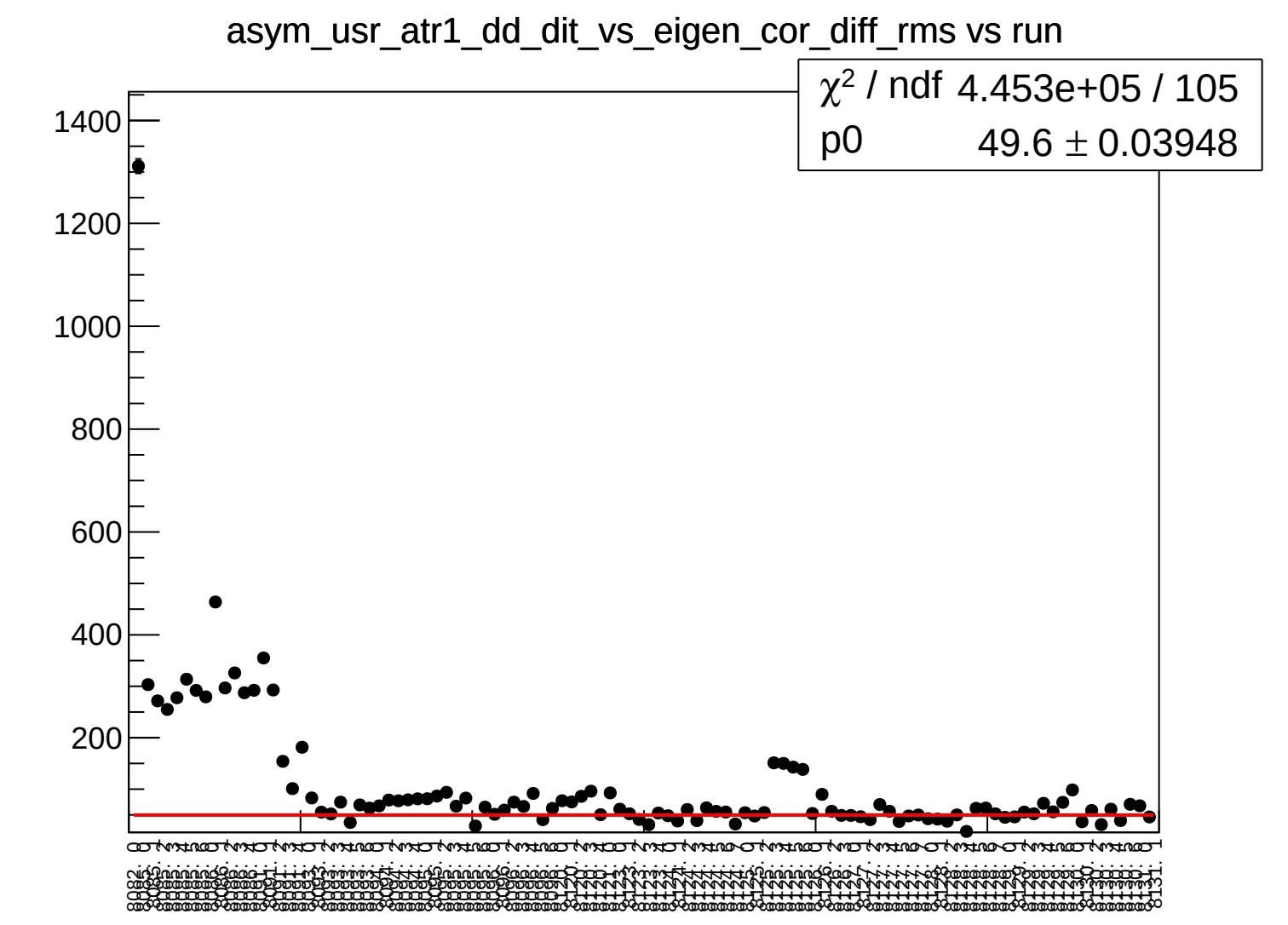

asym_usr_atr1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 113 / 105
p0 0.04103 ± 0.05584
pull
Entries 106
Mean 185.7
Std Dev 0

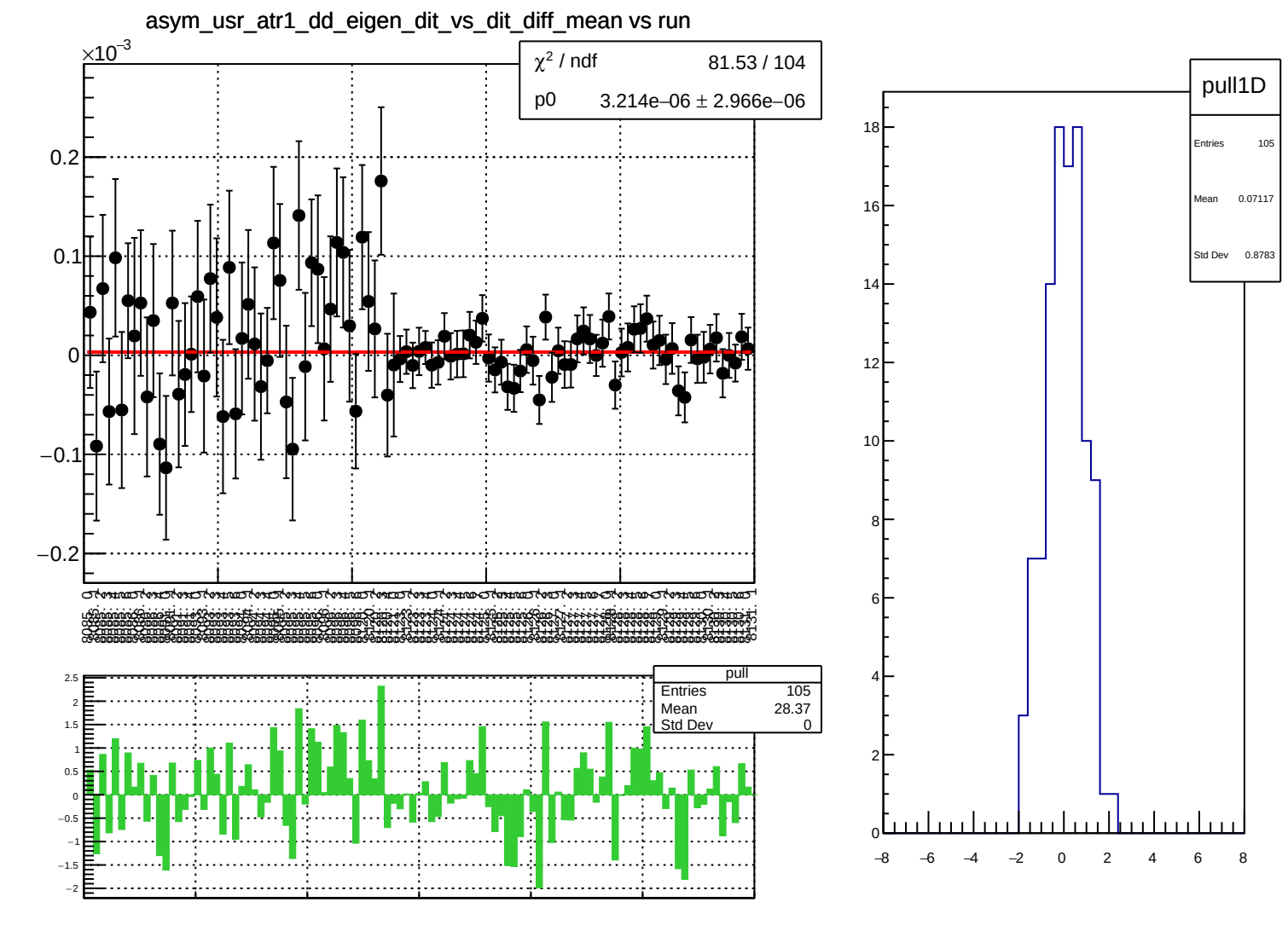

pull1D
Entries 106
Mean −0.01603
Std Dev 1.032

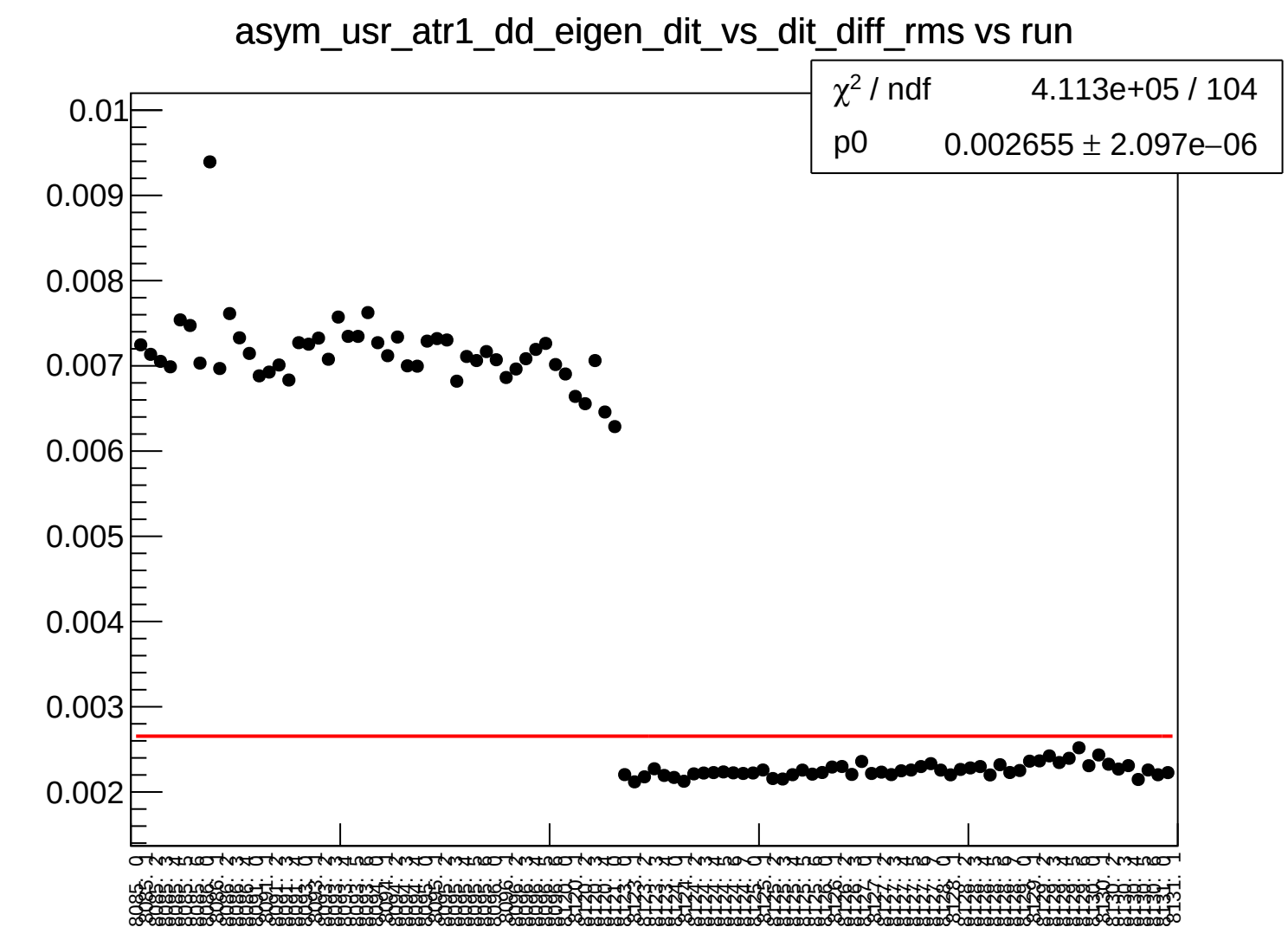

asym_usr_atr1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.453e+05 / 105
p0 49.6 ± 0.03948
1400
1200
1000
800
600
400
200

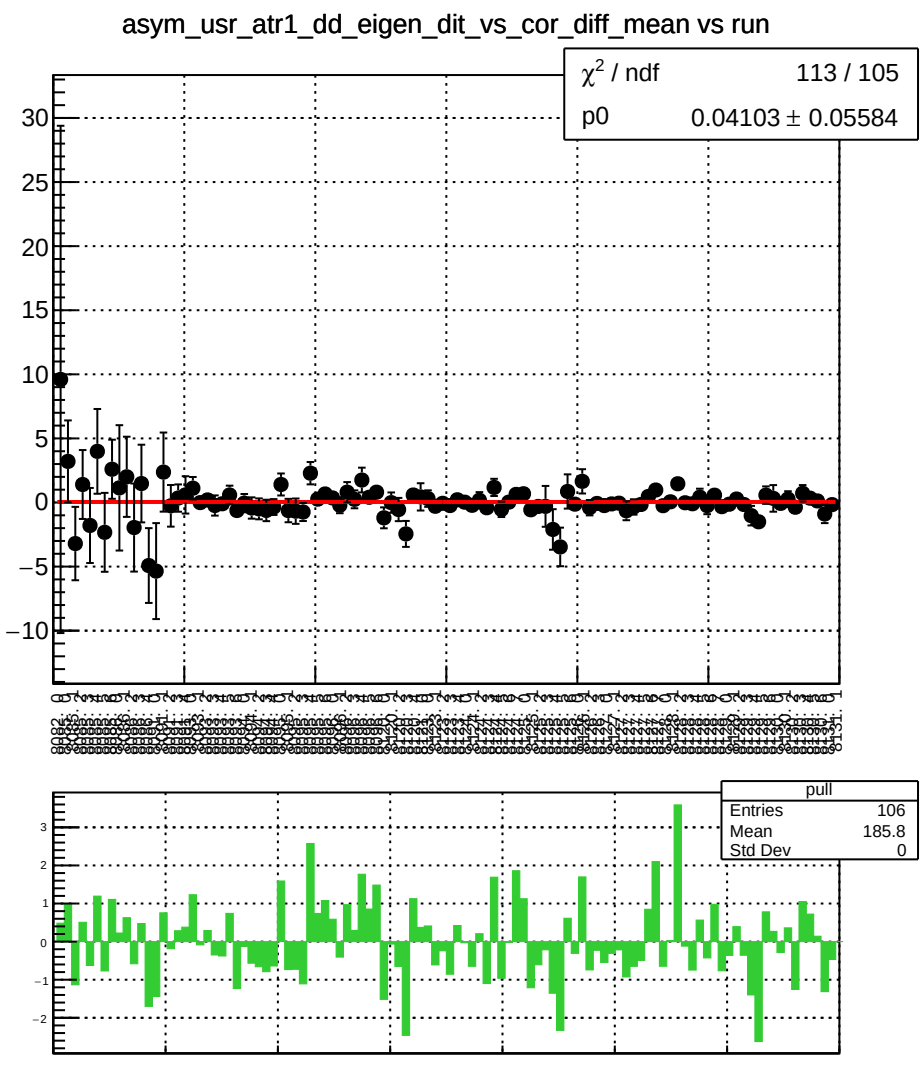

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 113 / 105
p0 0.04103 ± 0.05584
pull
Entries 106
Mean 185.7
Std Dev 0

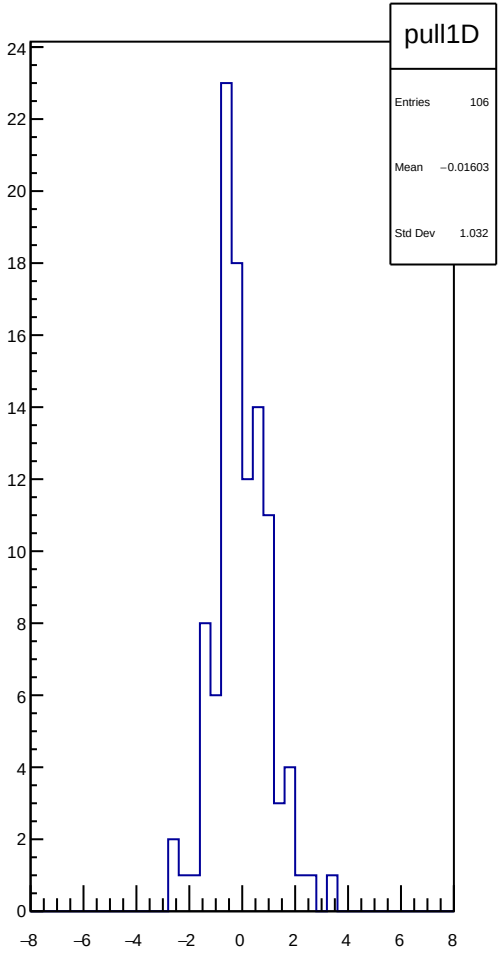

pull1D
Entries 106
Mean −0.01603
Std Dev 1.032

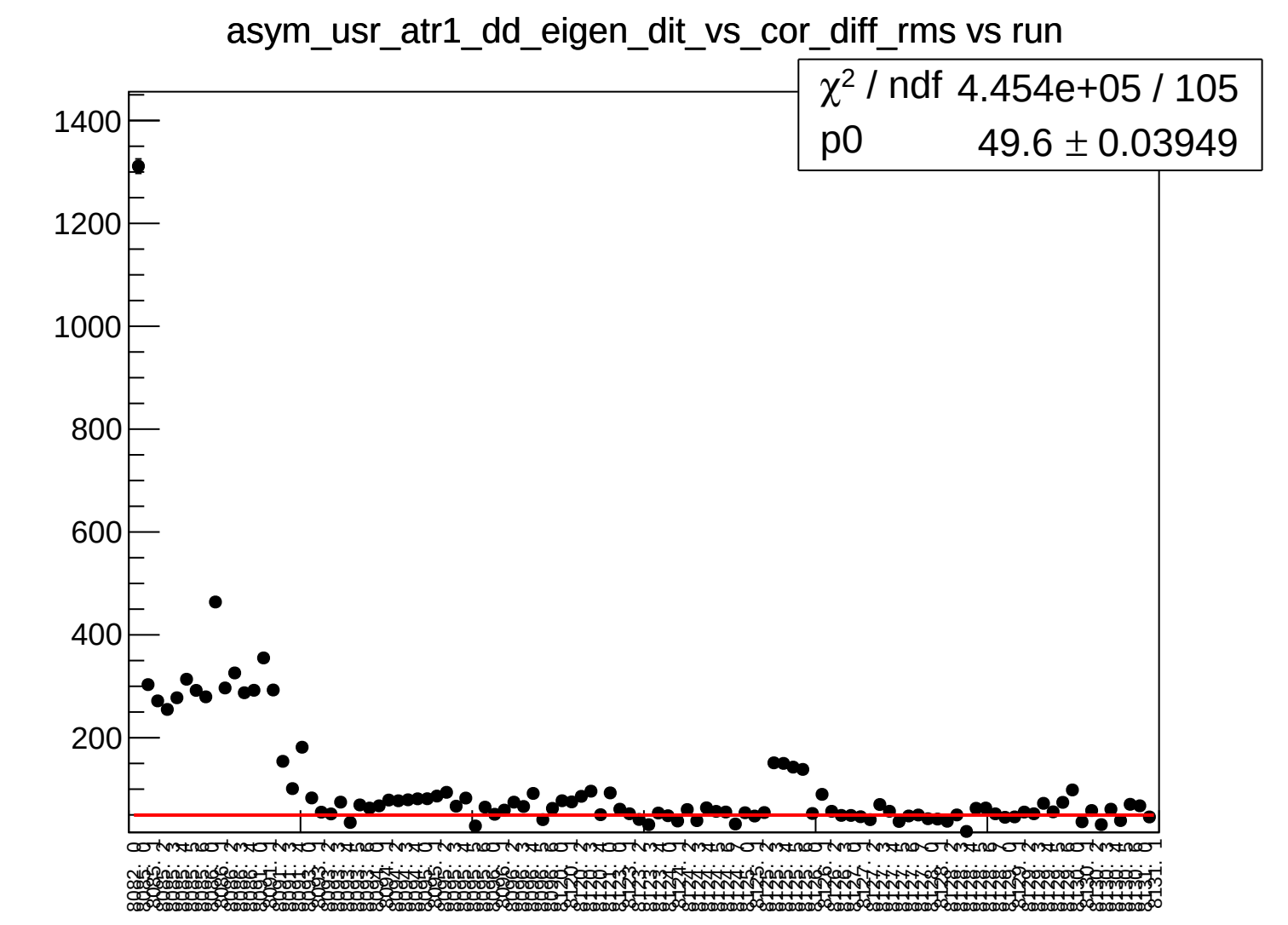

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.453e+05 / 105
p0 49.6 ± 0.03948
1400
1200
1000
800
600
400
200

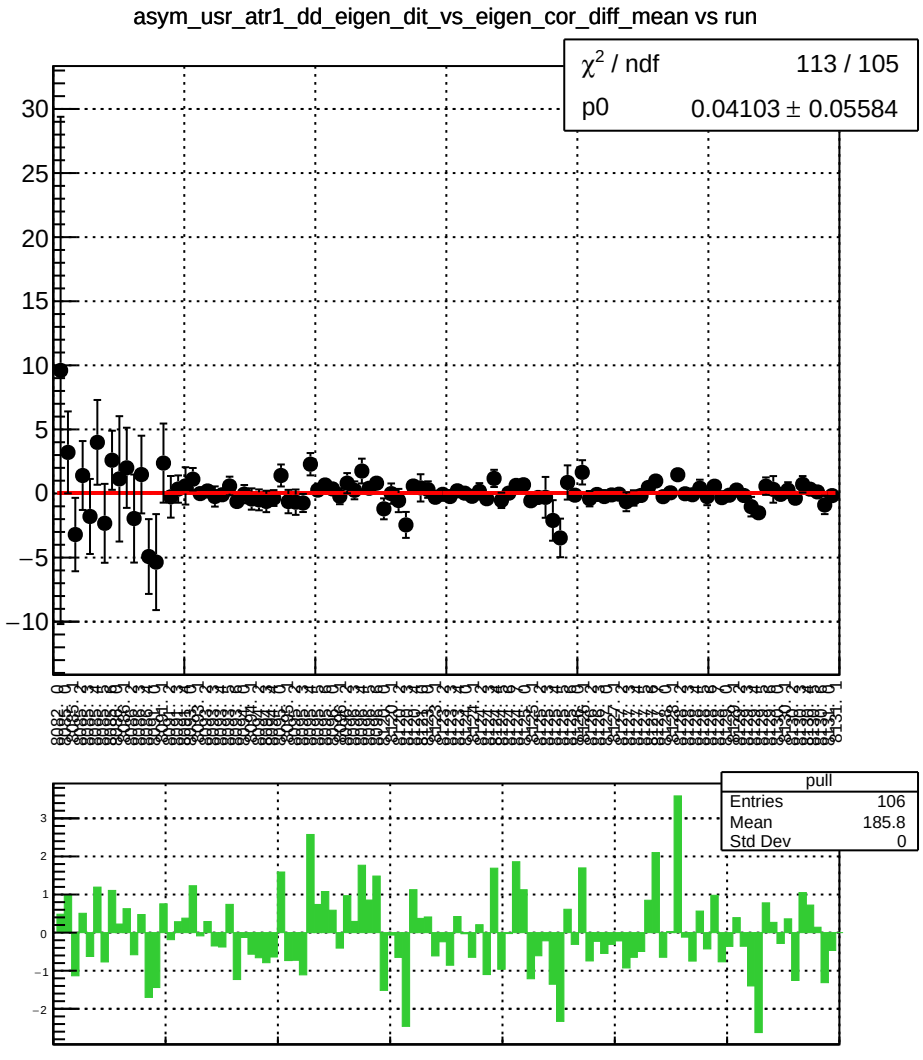

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 81.53 / 104
p0 3.214e−06 ± 2.966e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 105
Mean 28.37
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 105
Mean 0.07117
Std Dev 0.8783
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

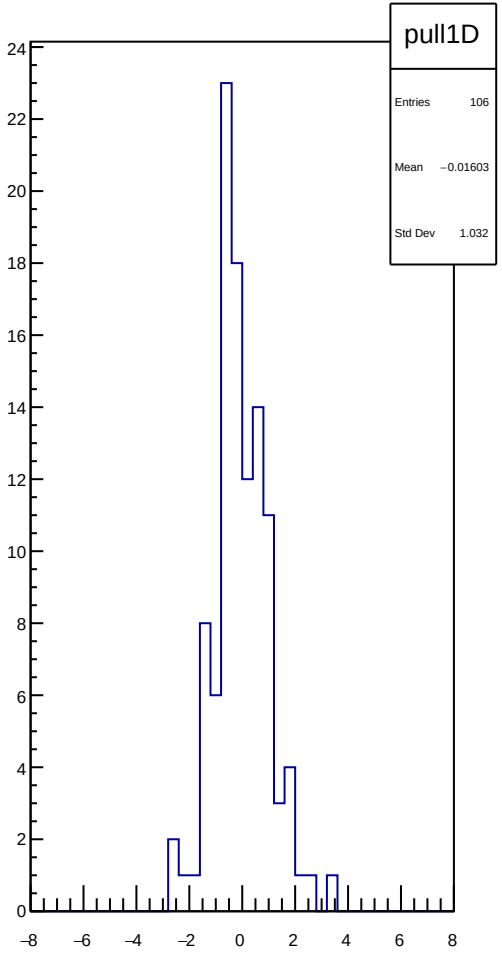

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_rms vs run
$\chi^2$ / ndf 4.113e+05 / 104
p0 0.002655 ± 2.097e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002

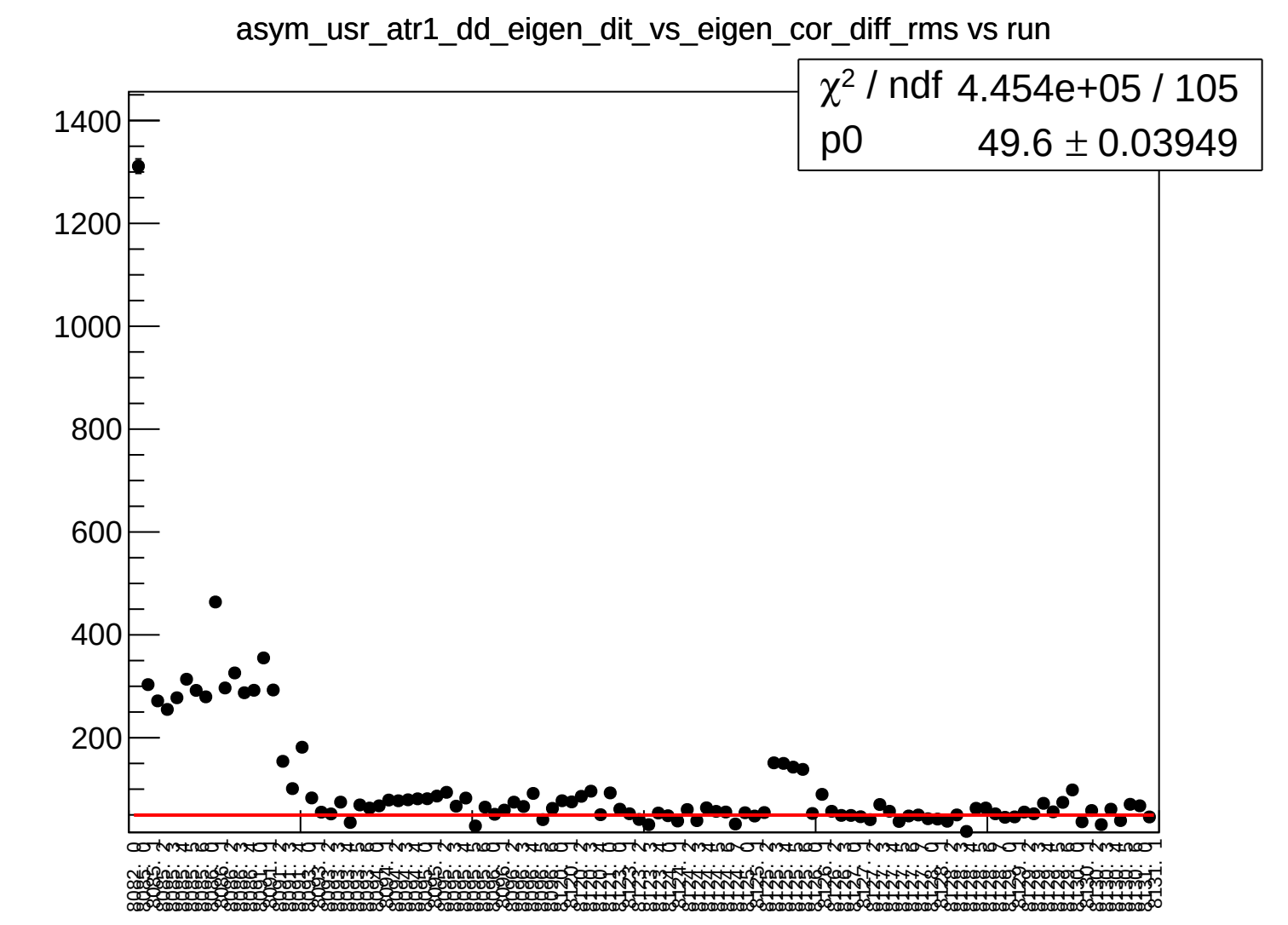

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 113 / 105
p0 0.04103 ± 0.05584
pull
Entries 106
Mean 185.8
Std Dev 0

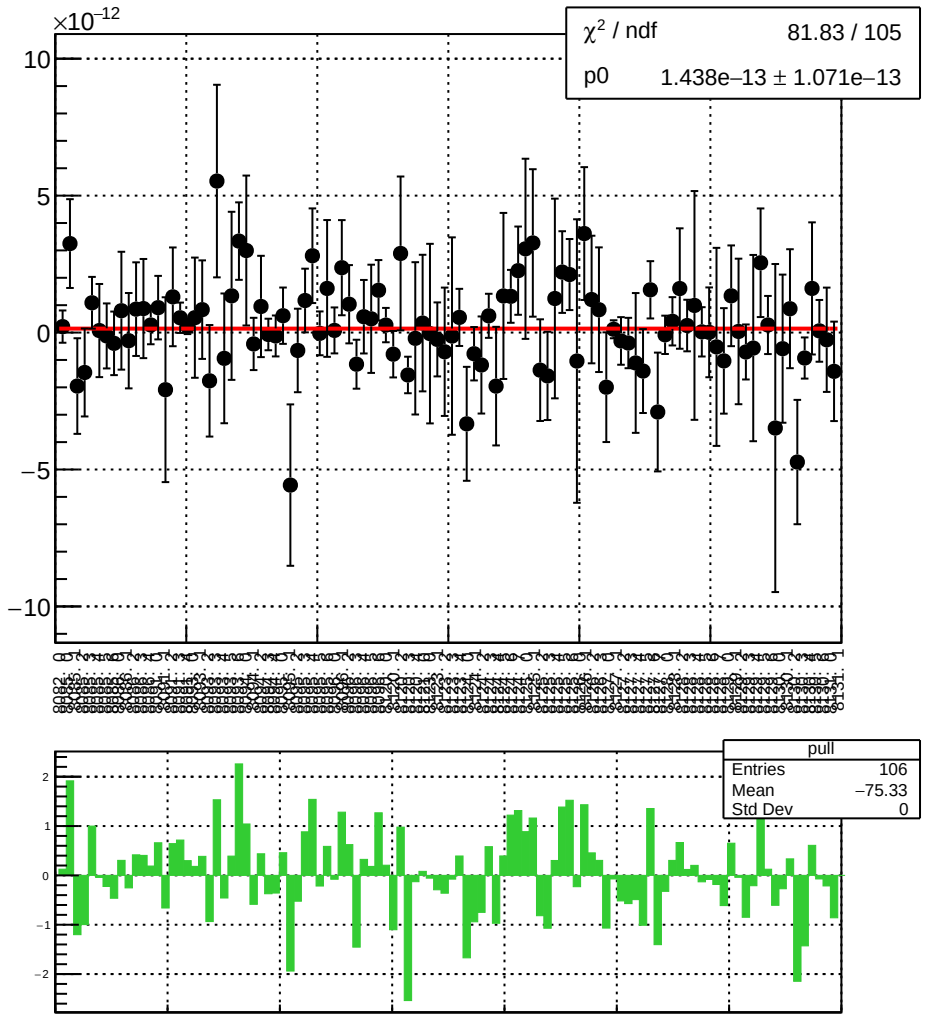

pull1D
Entries 106
Mean −0.01603
Std Dev 1.032

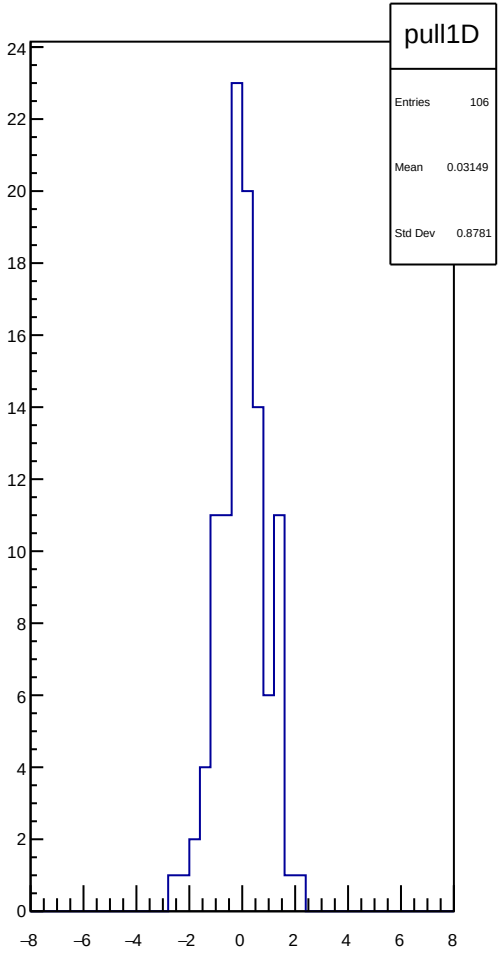

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.454e+05 / 105
p0 49.6 ± 0.03949
1400
1200
1000
800
600
400
200

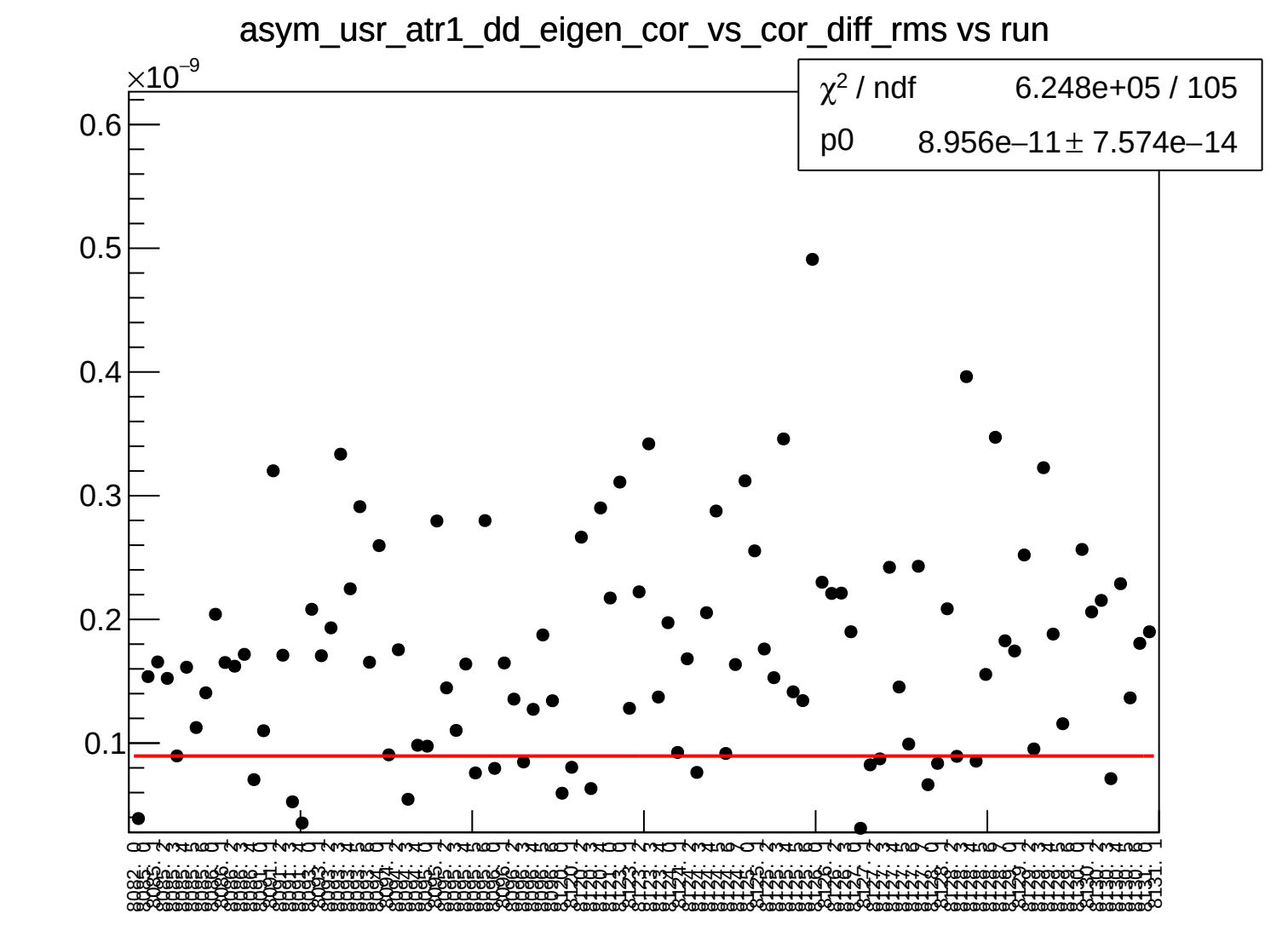

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 113 / 105
p0 0.04103 ± 0.05584
pull
Entries 106
Mean 185.8
Std Dev 0

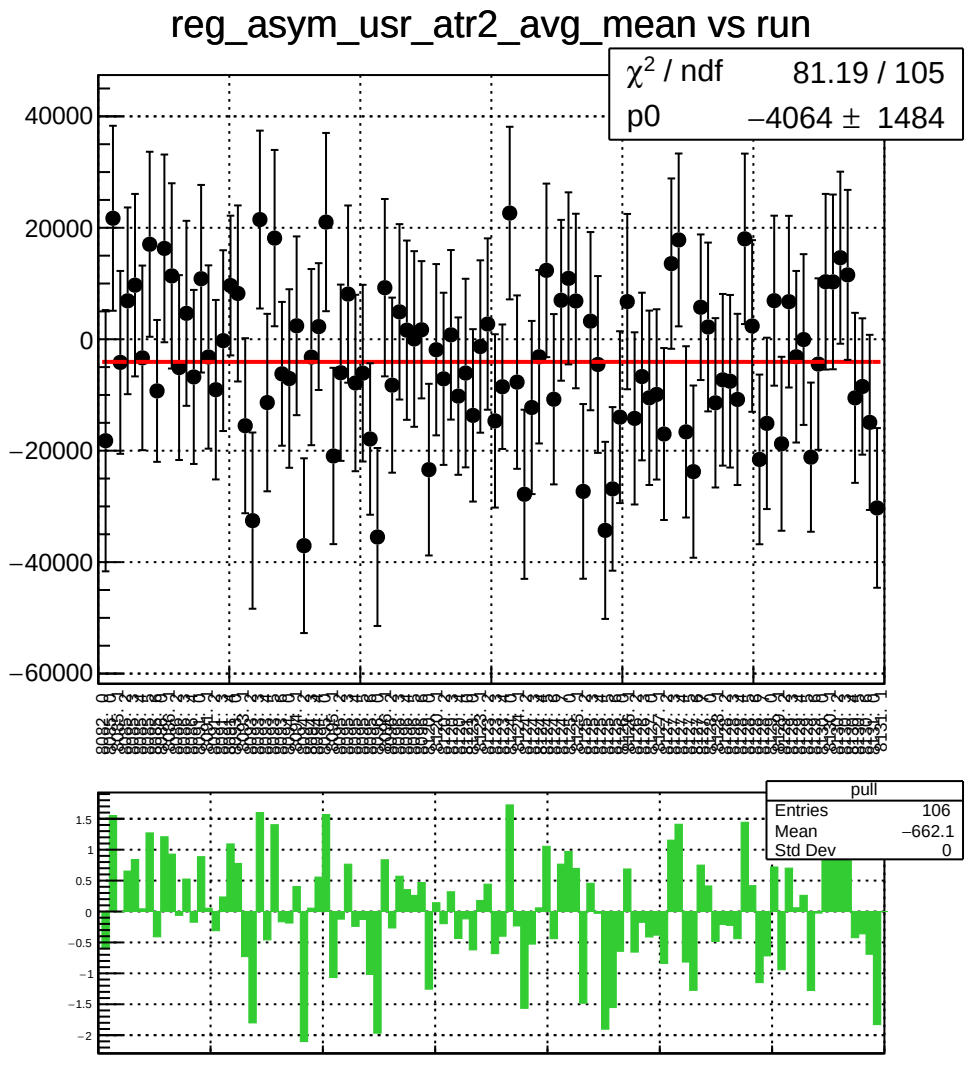

pull1D
Entries 106
Mean −0.01603
Std Dev 1.032

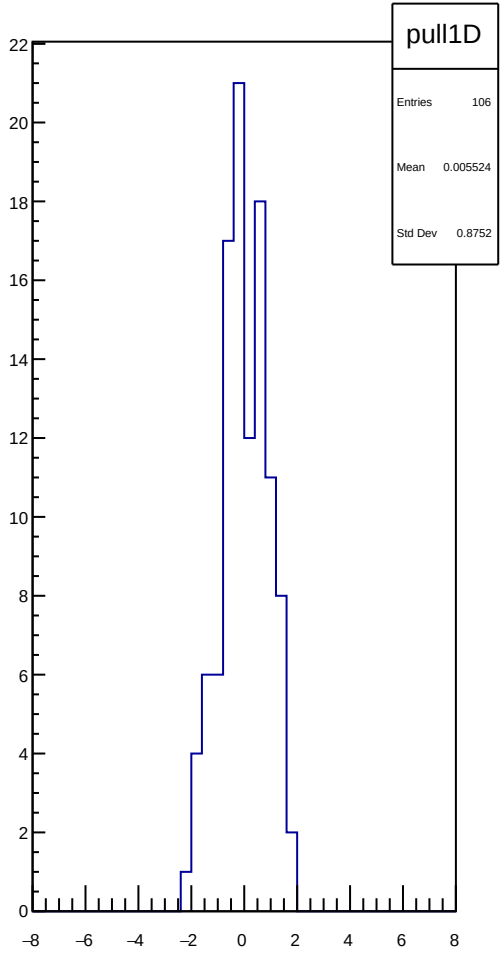

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.454e+05 / 105
p0 49.6 ± 0.03949
1400
1200
1000
800
600
400
200

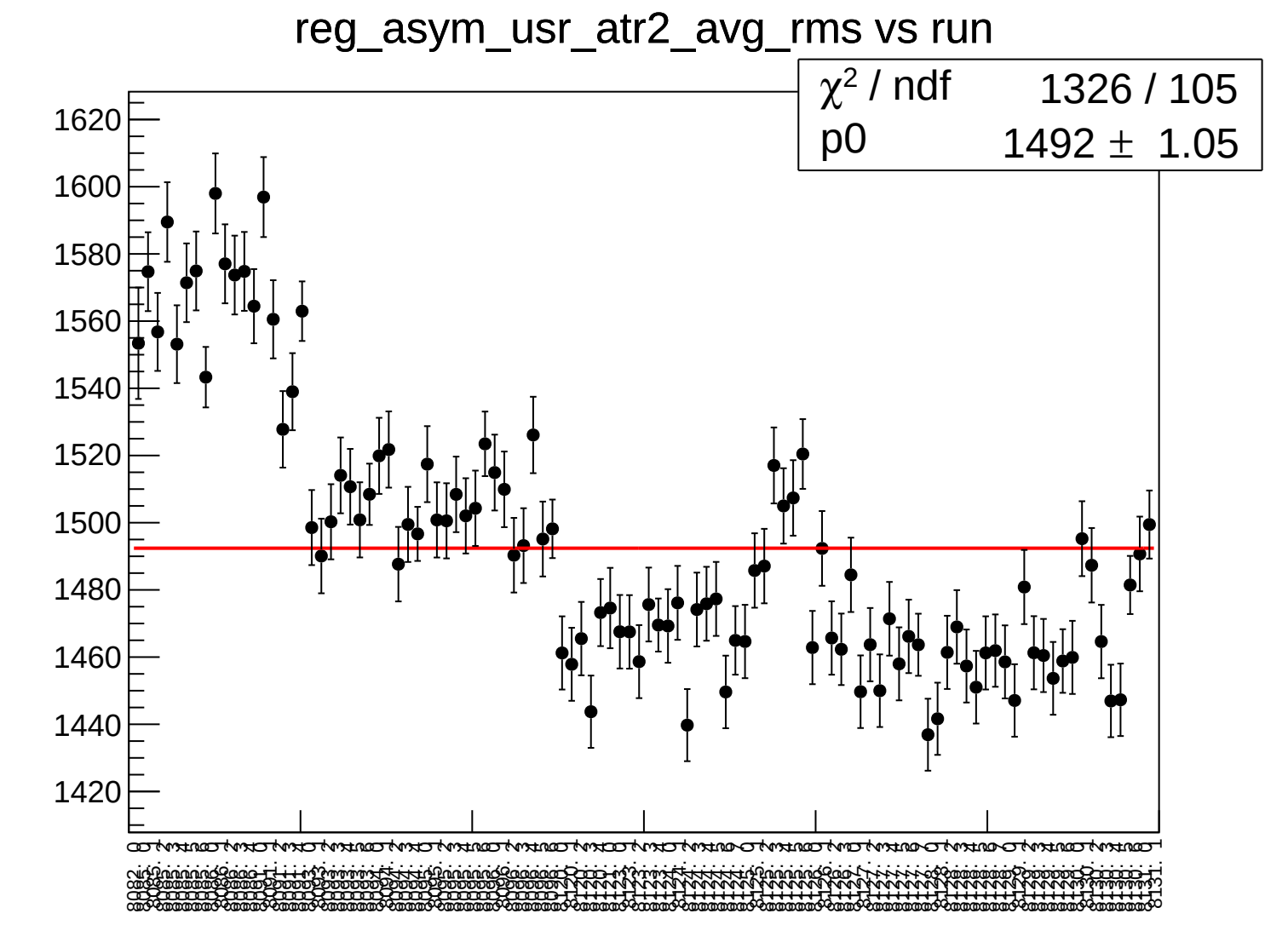

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.83 / 105
p0 1.438e−13 ± 1.071e−13
pull
Entries 106
Mean −75.33
Std Dev 0

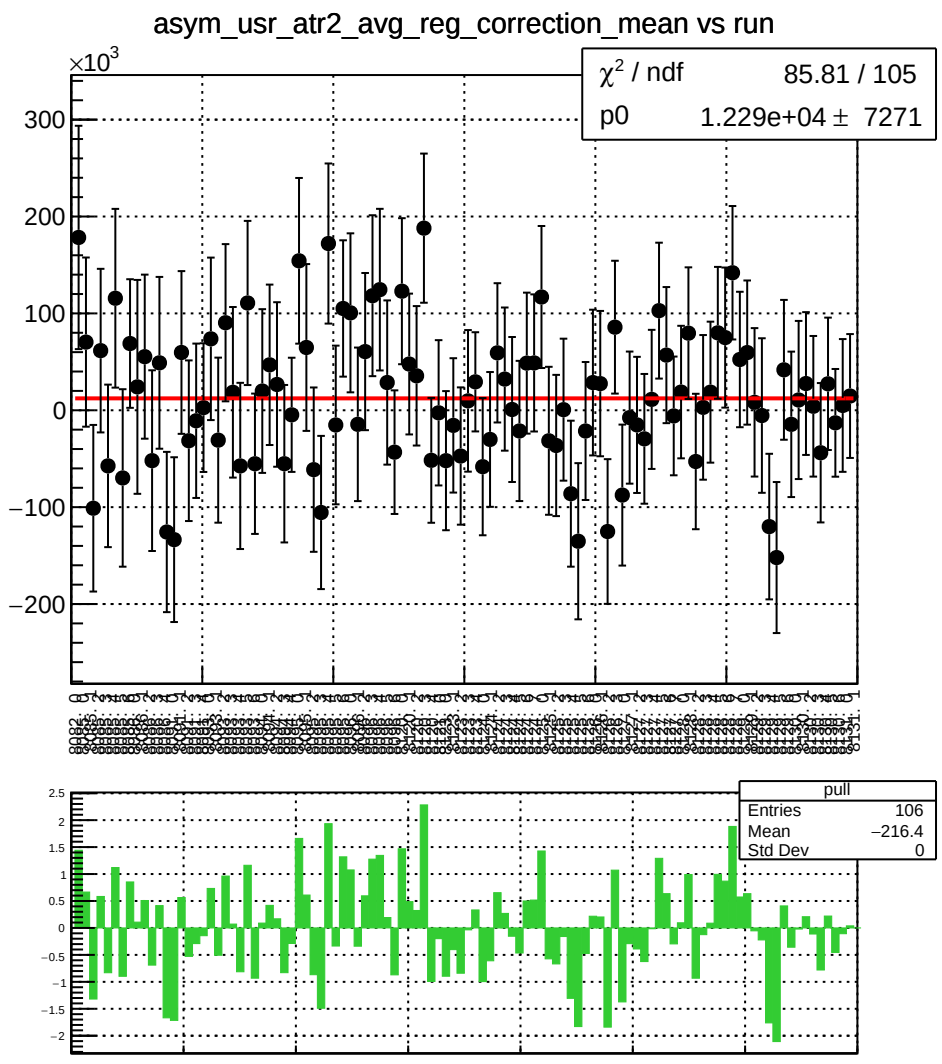

pull1D
Entries 106
Mean 0.03149
Std Dev 0.8781

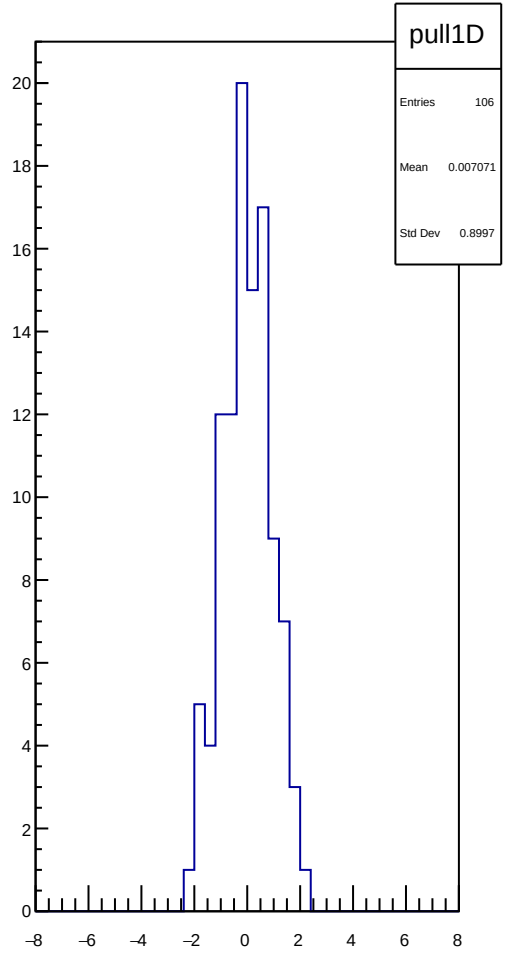

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.248e+05 / 105
p0 8.956e−11 ± 7.574e−14
0.6
0.5
0.4
0.3
0.2
0.1

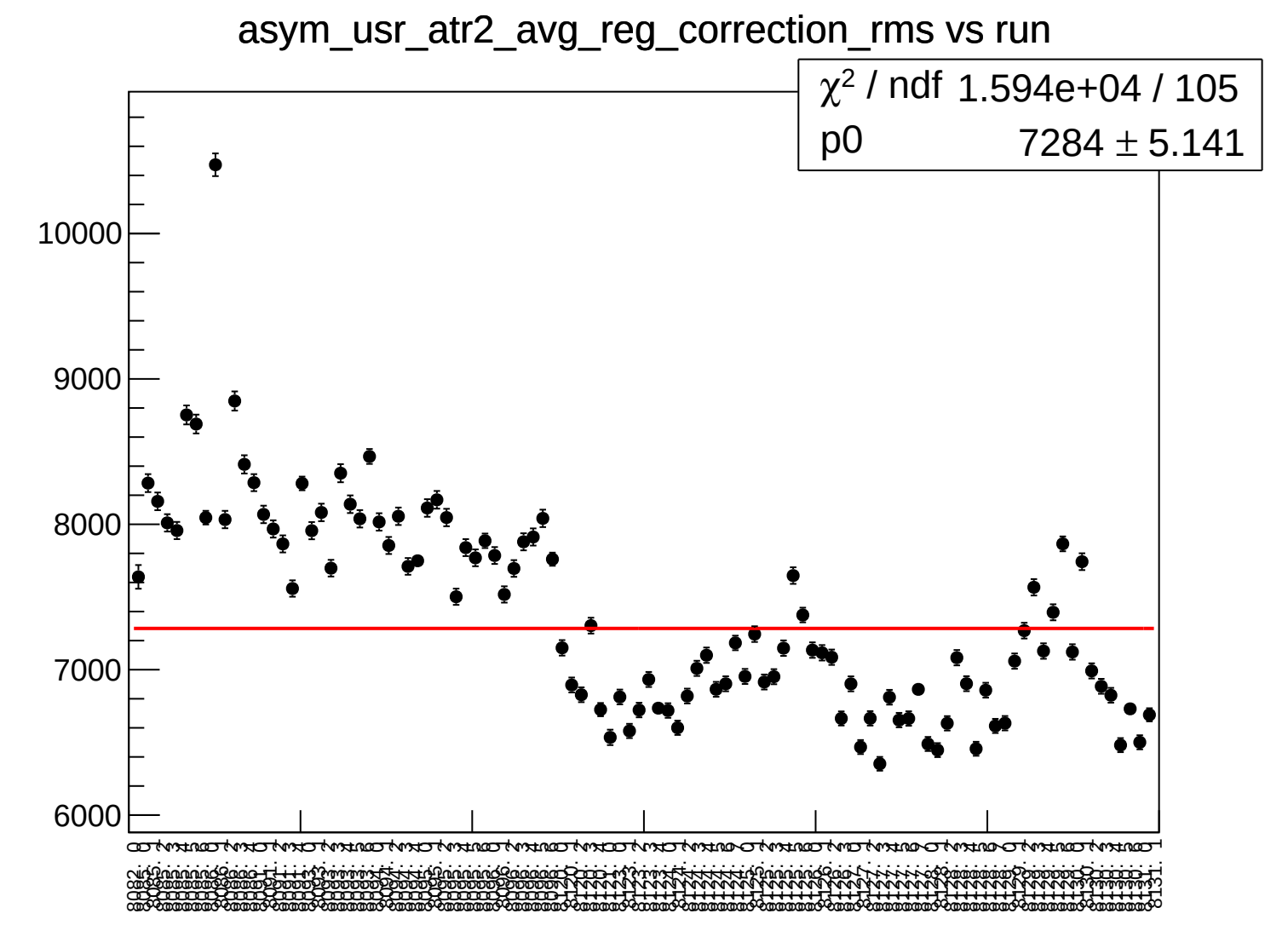

reg_asym_usr_atr2_avg_mean vs run
χ² / ndf 81.19 / 105
p0 −4064 ± 1484
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean −662.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

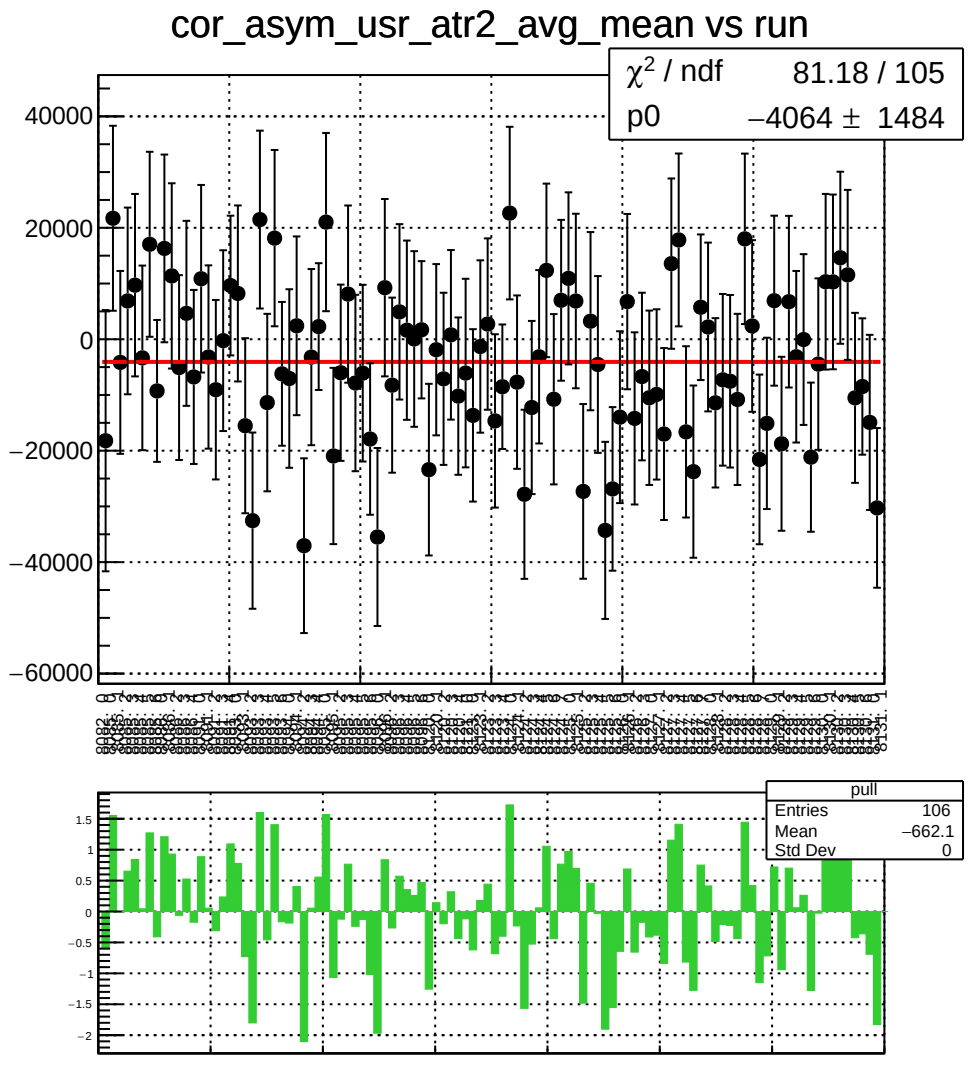

pull1D
Entries 106
Mean 0.005524
Std Dev 0.8752
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

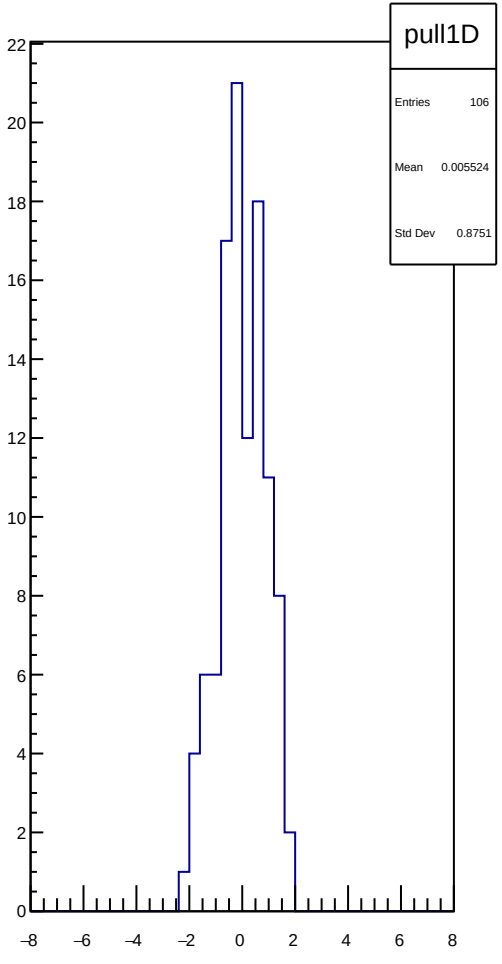

reg_asym_usr_atr2_avg_rms vs run
χ² / ndf 1326 / 105
p0 1492 ± 1.05
1620
1600
1580
1560
1540
1520
1500
1480
1460
1440
1420

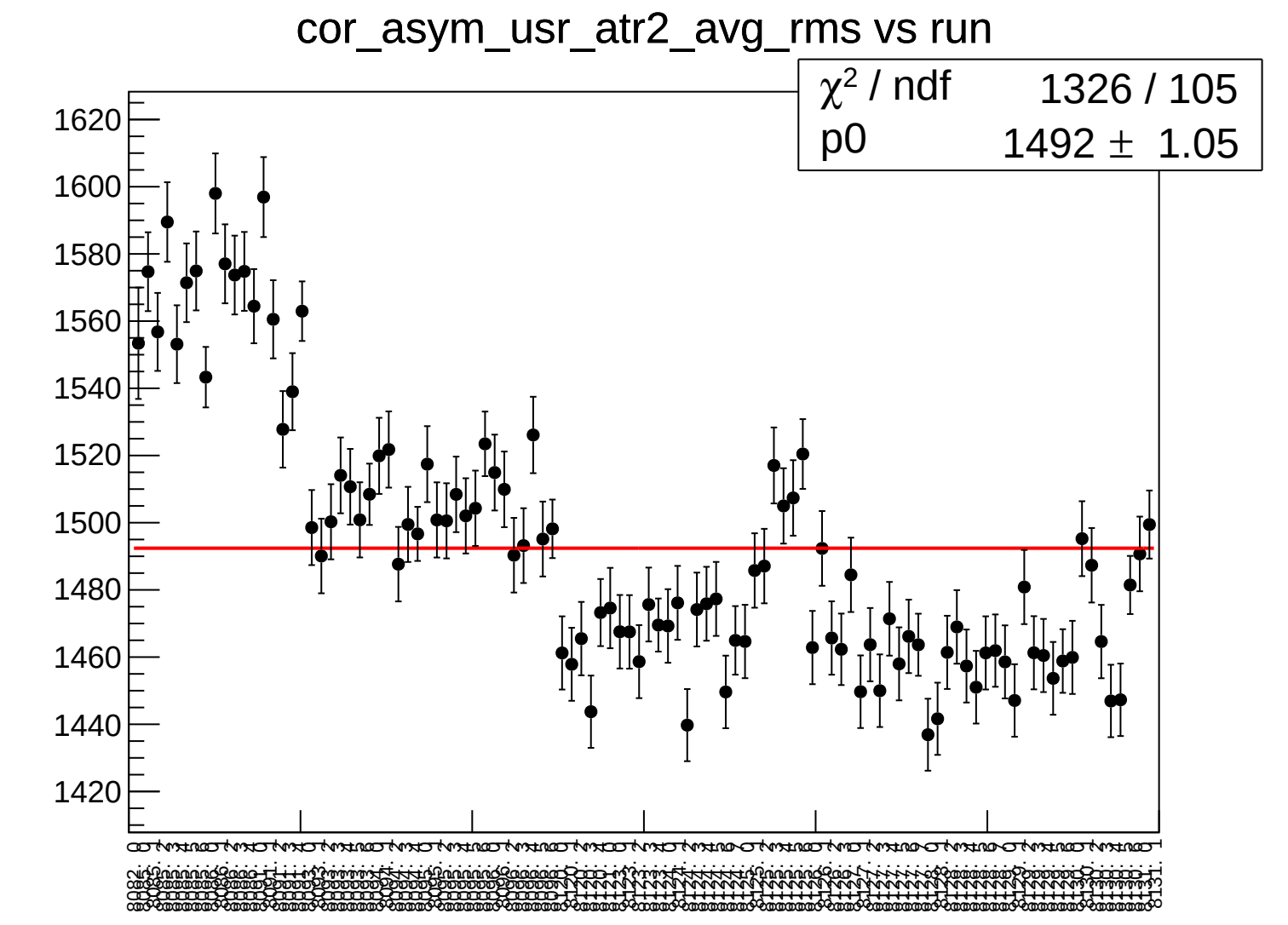

asym_usr_atr2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 85.81 / 105
p0 1.229e+04 ± 7271
300
200
100
0
−100
−200
pull
Entries 106
Mean −216.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

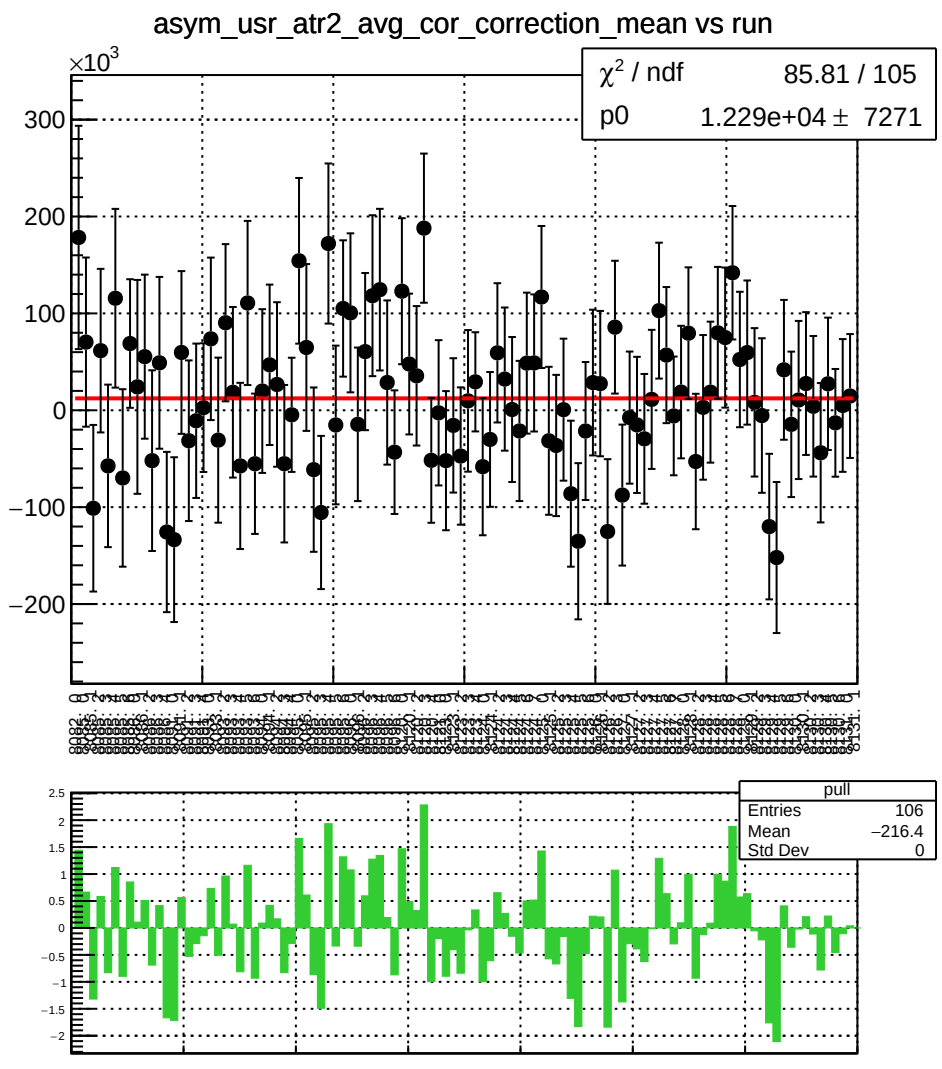

pull1D
Entries 106
Mean 0.007071
Std Dev 0.8997
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

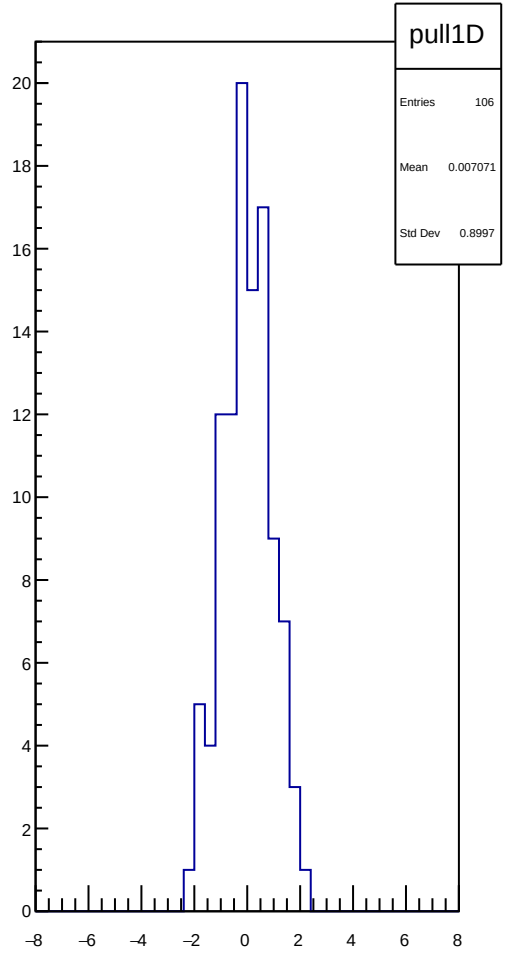

asym_usr_atr2_avg_reg_correction_rms vs run
χ² / ndf 1.594e+04 / 105
p0 7284 ± 5.141
10000
9000
8000
7000
6000

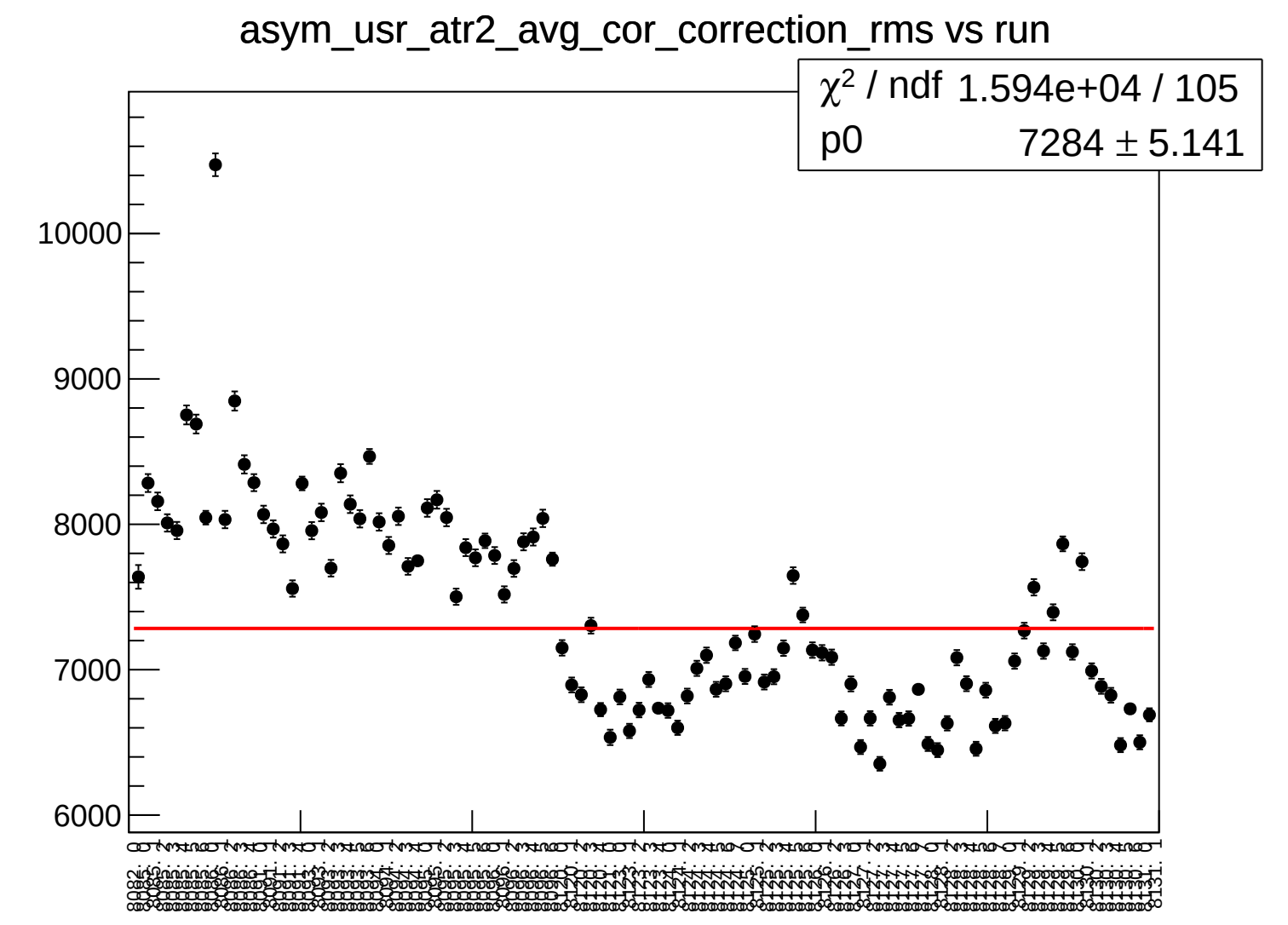

cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 81.18 / 105
p0 −4064 ± 1484
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean −662.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

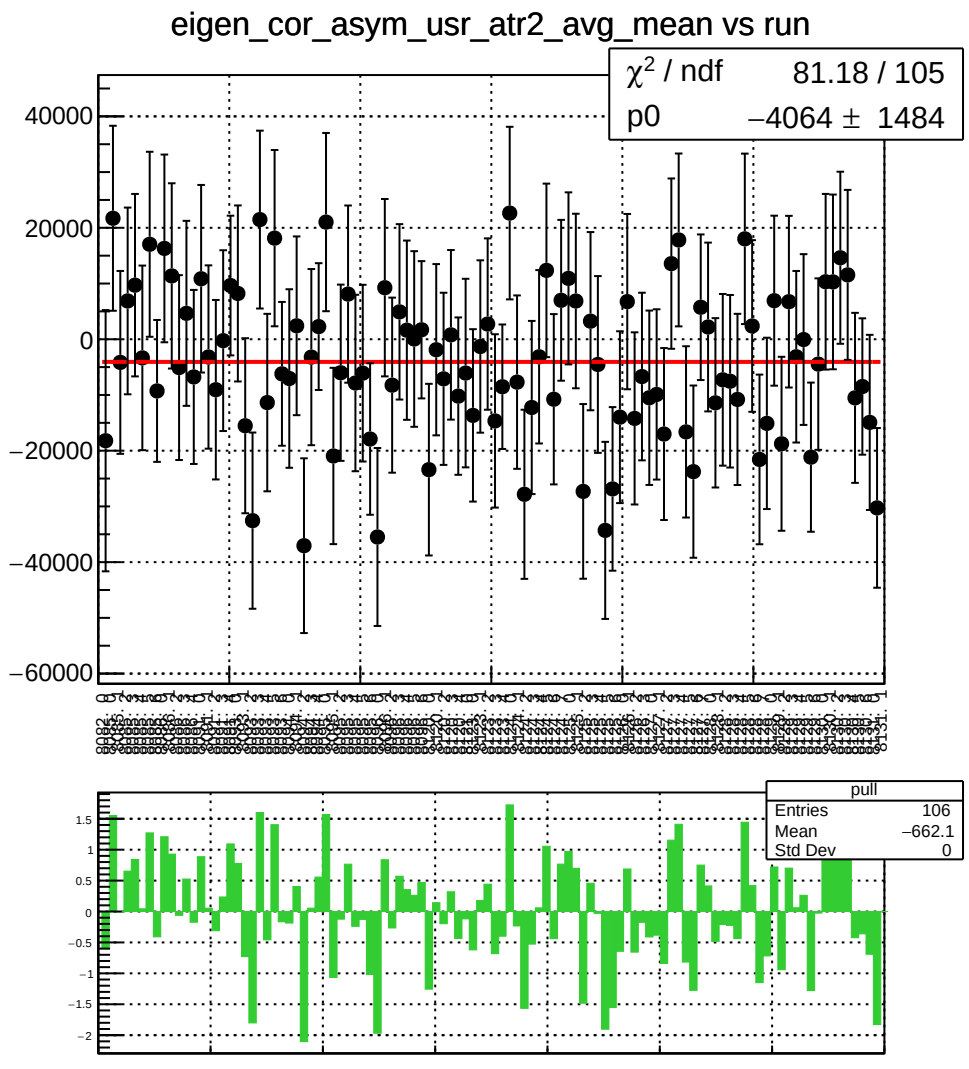

pull1D
Entries 106
Mean 0.005524
Std Dev 0.8751
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

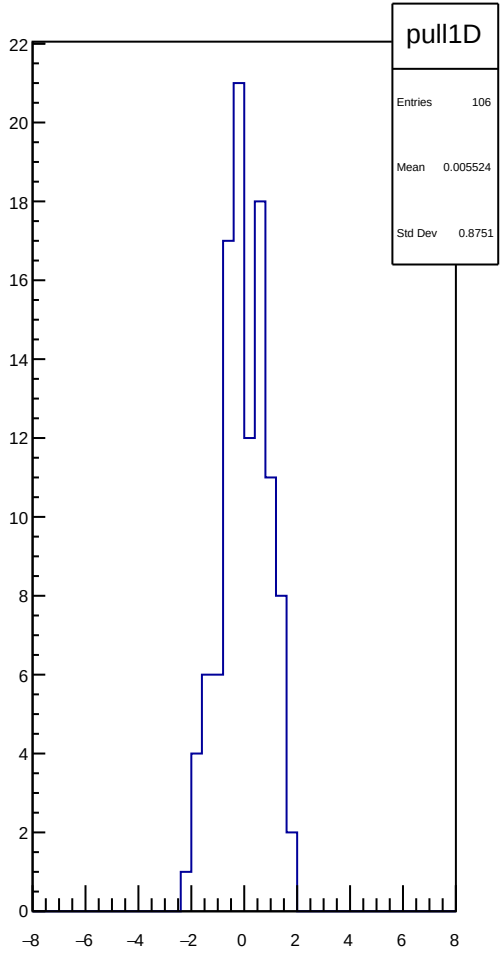

cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 1326 / 105
p0 1492 ± 1.05
1620
1600
1580
1560
1540
1520
1500
1480
1460
1440
1420

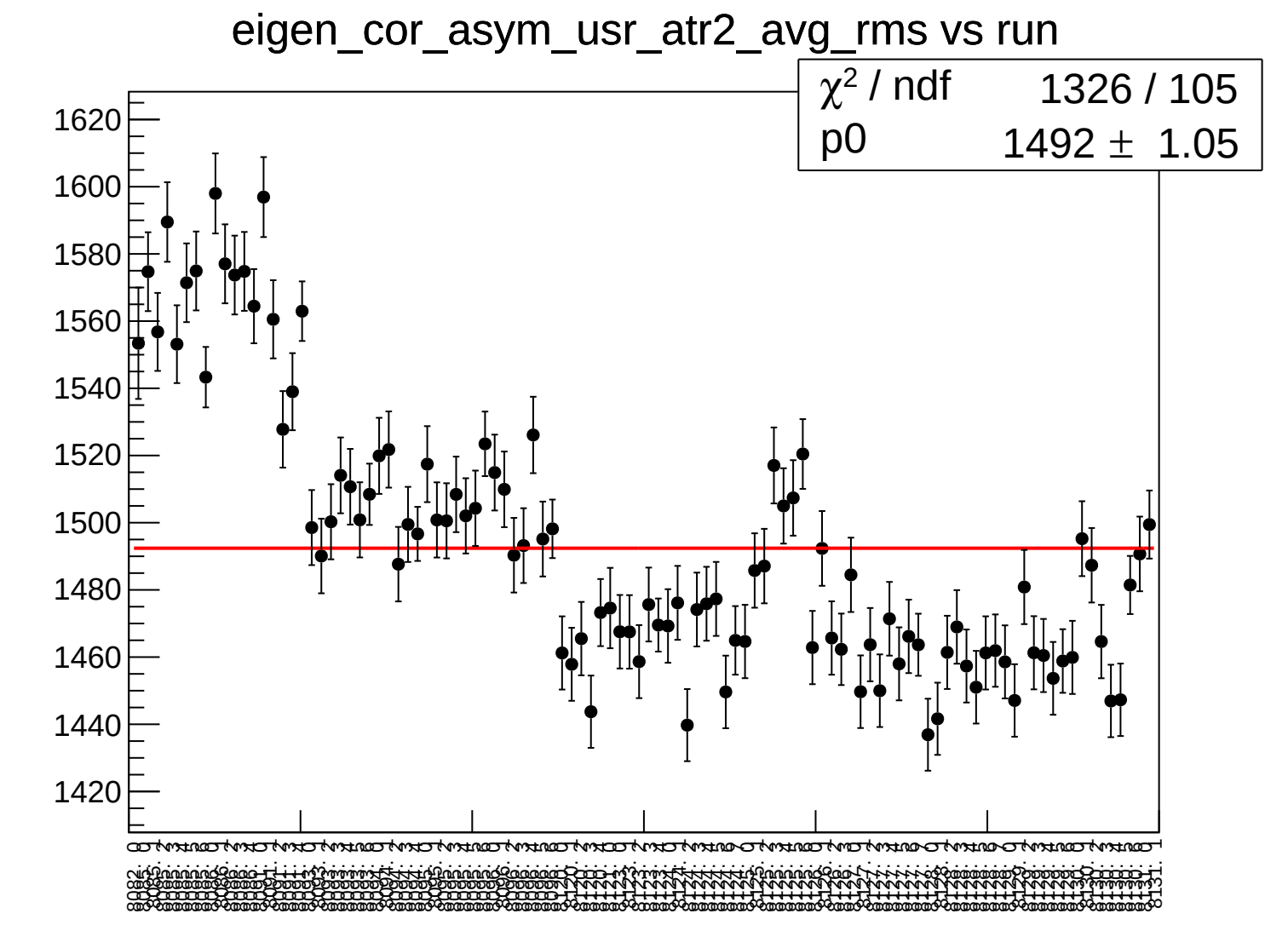

asym_usr_atr2_avg_cor_correction_mean vs run
×10^3
χ² / ndf 85.81 / 105
p0 1.229e+04 ± 7271
300
200
100
0
−100
−200
pull
Entries 106
Mean −216.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

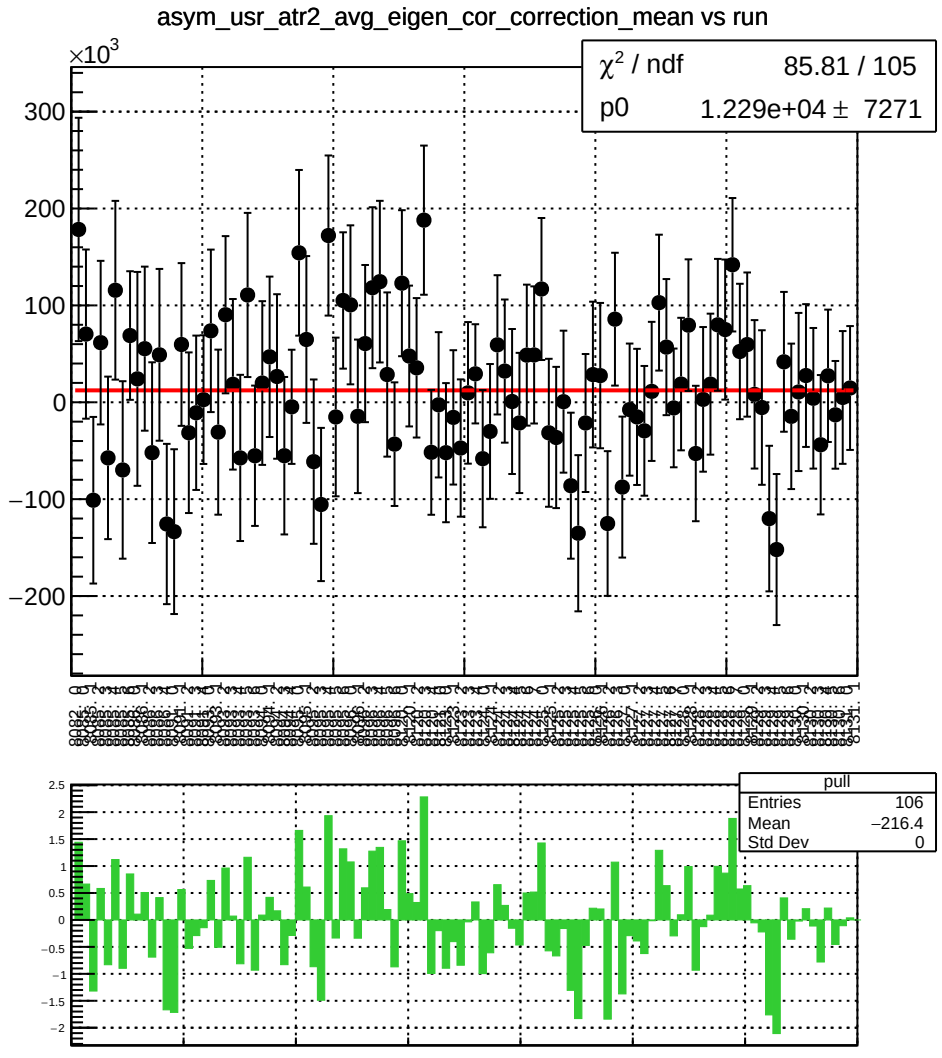

pull1D
Entries 106
Mean 0.007071
Std Dev 0.8997
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

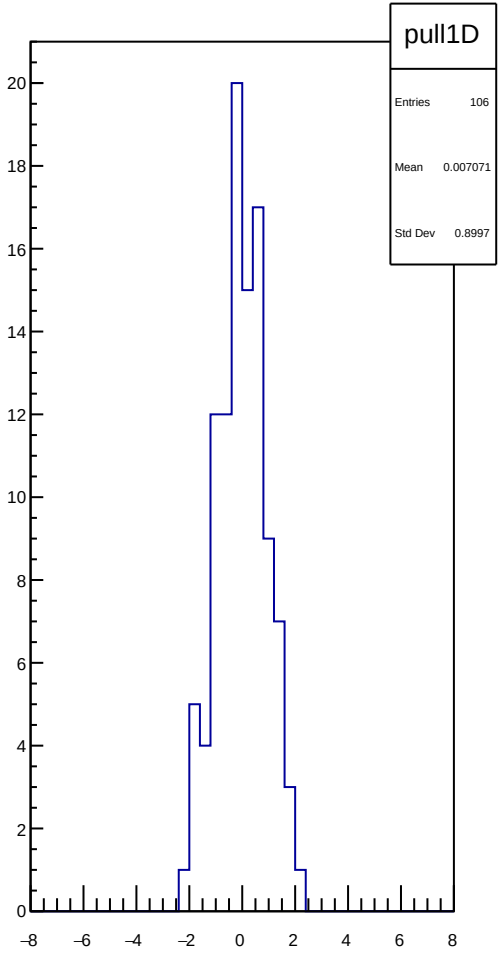

asym_usr_atr2_avg_cor_correction_rms vs run
χ² / ndf 1.594e+04 / 105
p0 7284 ± 5.141
10000
9000
8000
7000
6000

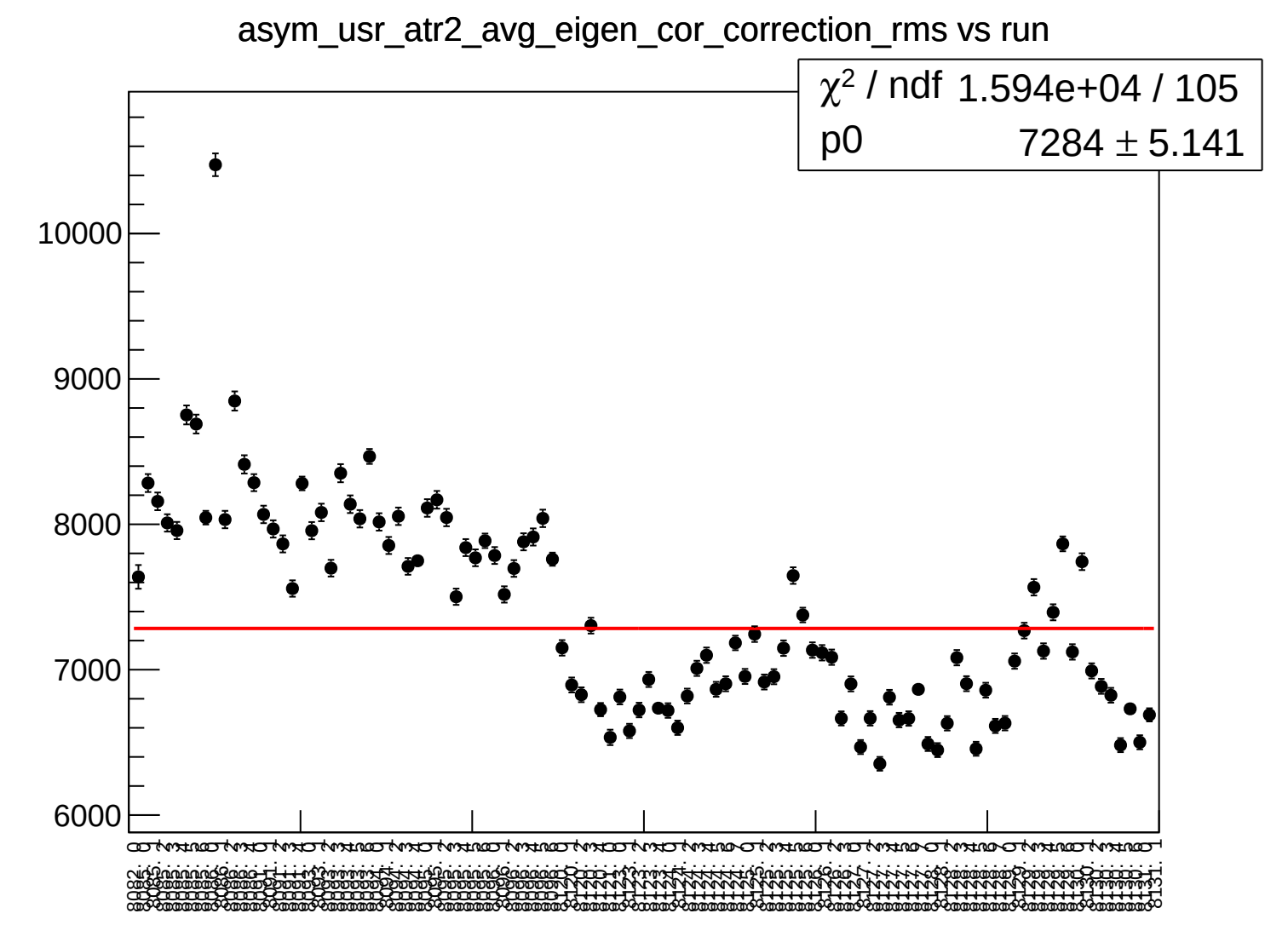

eigen_cor_asym_usr_atr2_avg_mean vs run
χ² / ndf 81.18 / 105
p0 −4064 ± 1484
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean −662.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

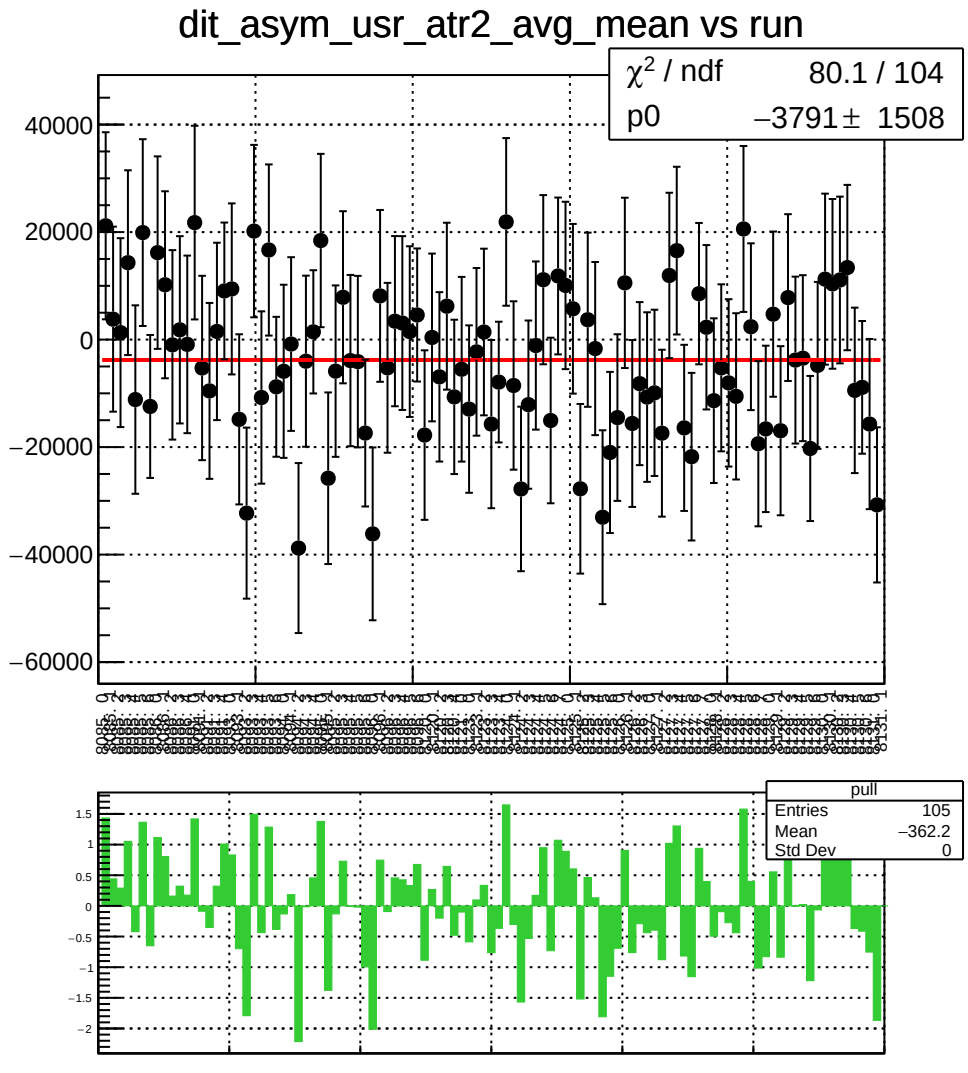

pull1D
Entries 106
Mean 0.005524
Std Dev 0.8751
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

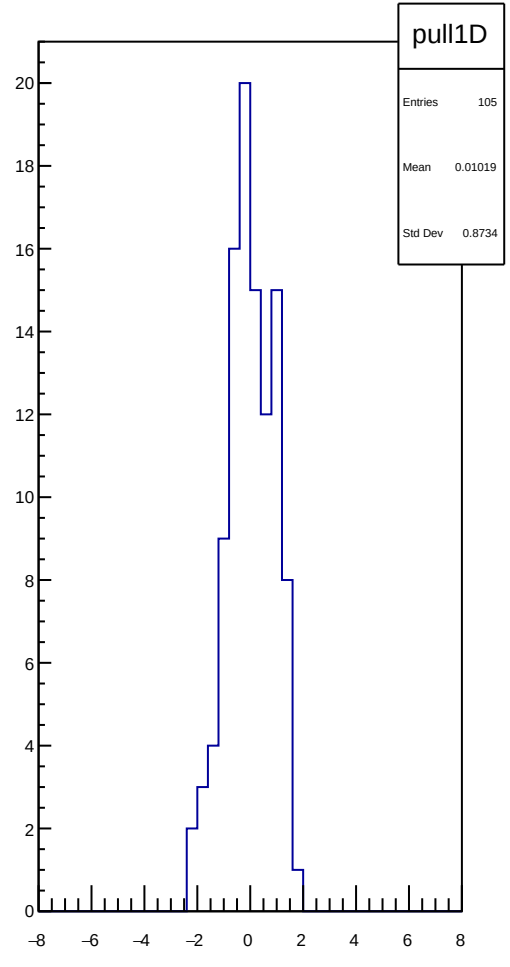

eigen_cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 1326 / 105
p0 1492 ± 1.05
1620
1600
1580
1560
1540
1520
1500
1480
1460
1440
1420

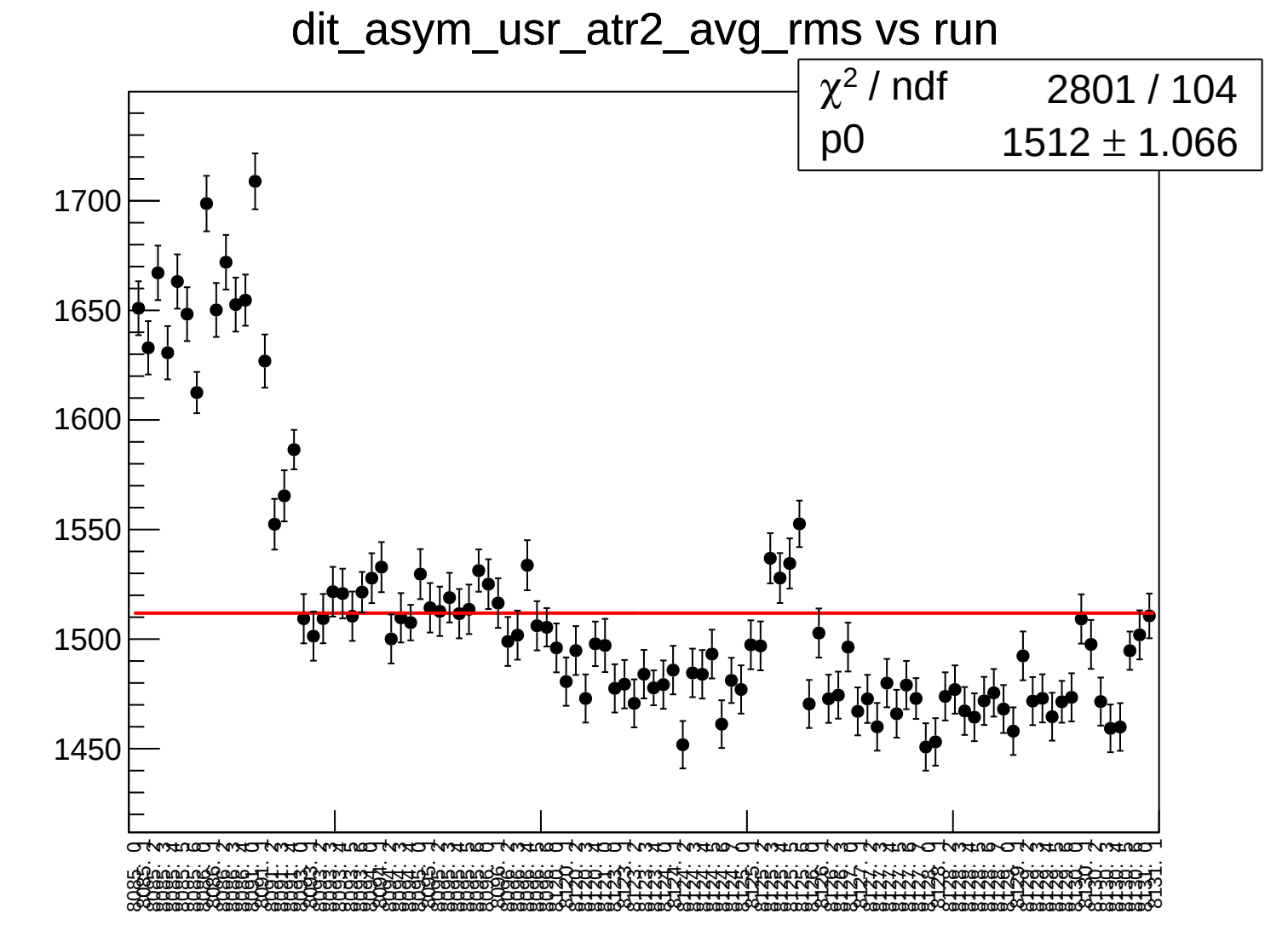

asym_usr_atr2_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 85.81 / 105
p0 1.229e+04 ± 7271
pull
Entries 106
Mean −216.4
Std Dev 0

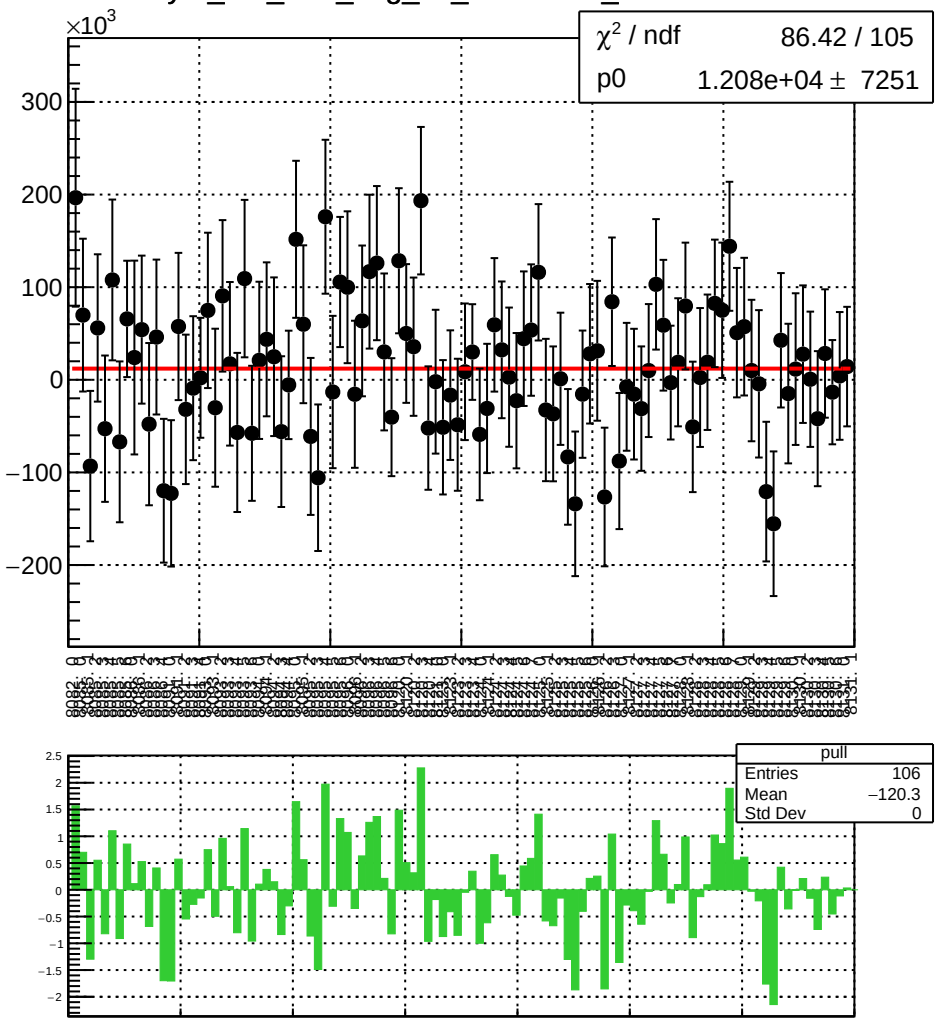

pull1D
Entries 106
Mean 0.007071
Std Dev 0.8997

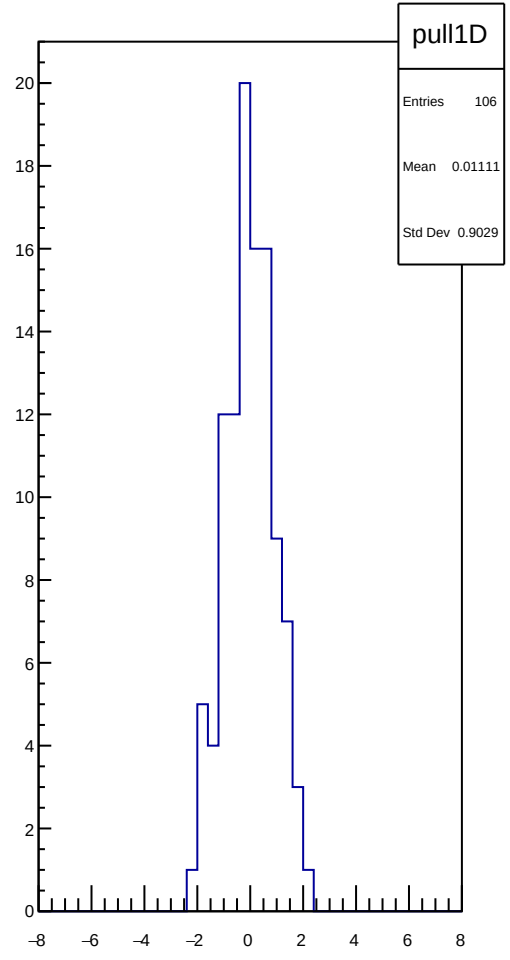

asym_usr_atr2_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.594e+04 / 105
p0 7284 ± 5.141
10000
9000
8000
7000
6000

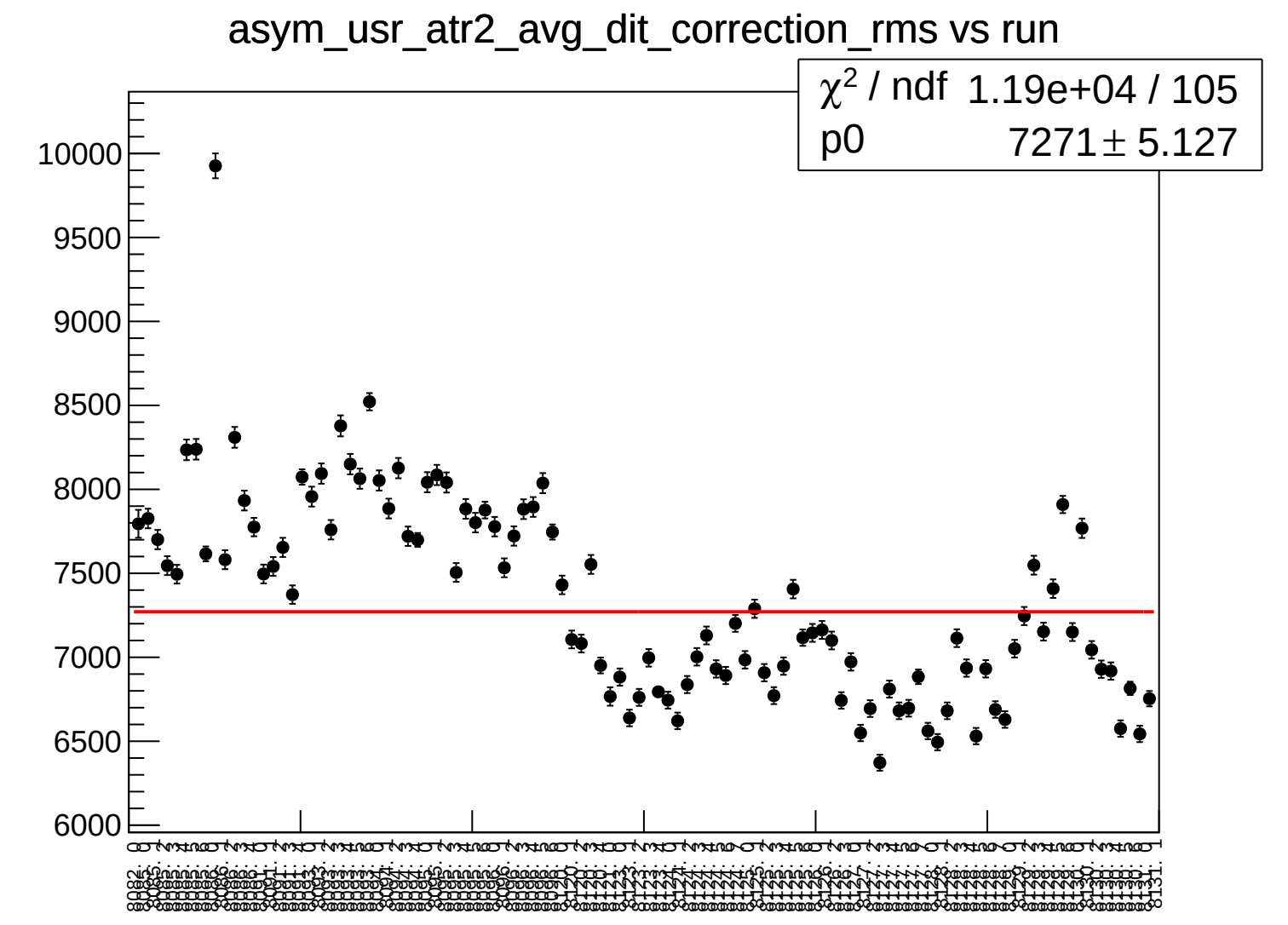

dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 80.1 / 104
p0 −3791 ± 1508
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean −362.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

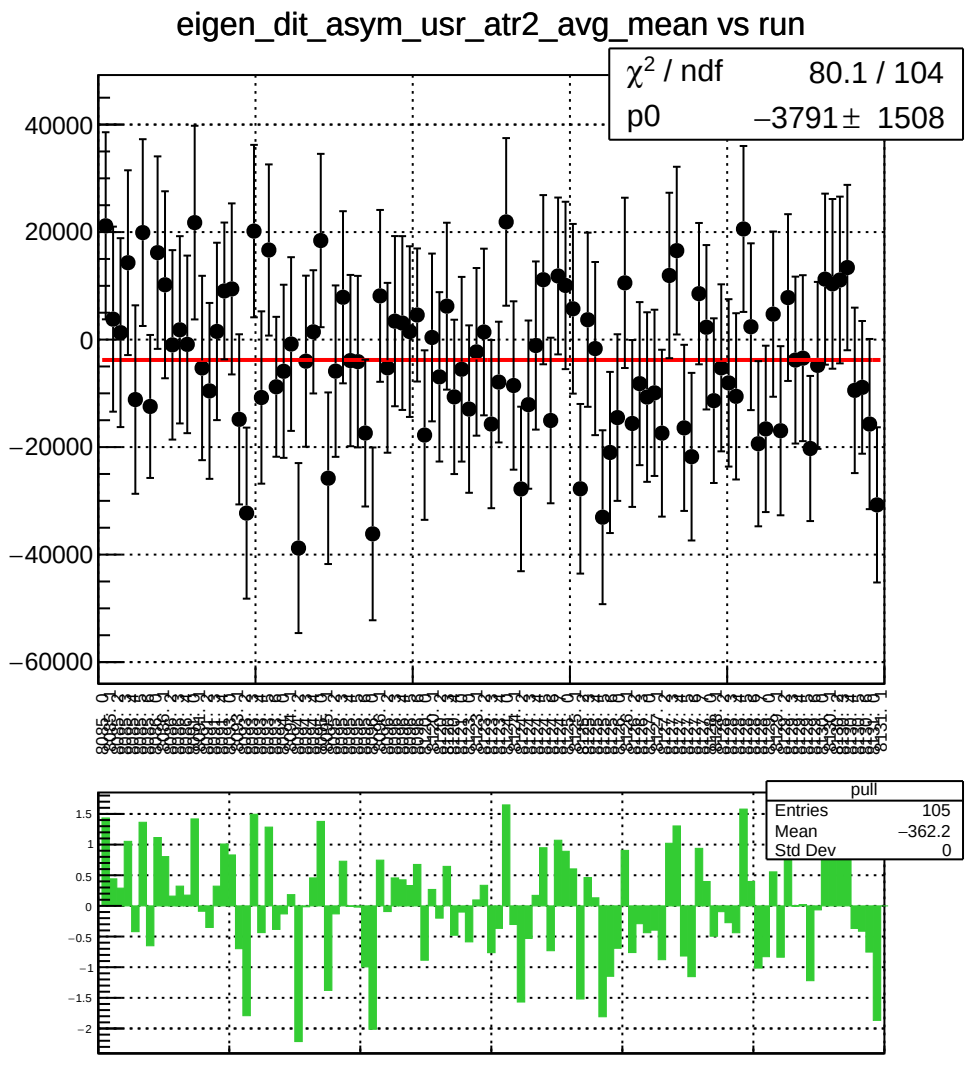

pull1D
Entries 105
Mean 0.01019
Std Dev 0.8734
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

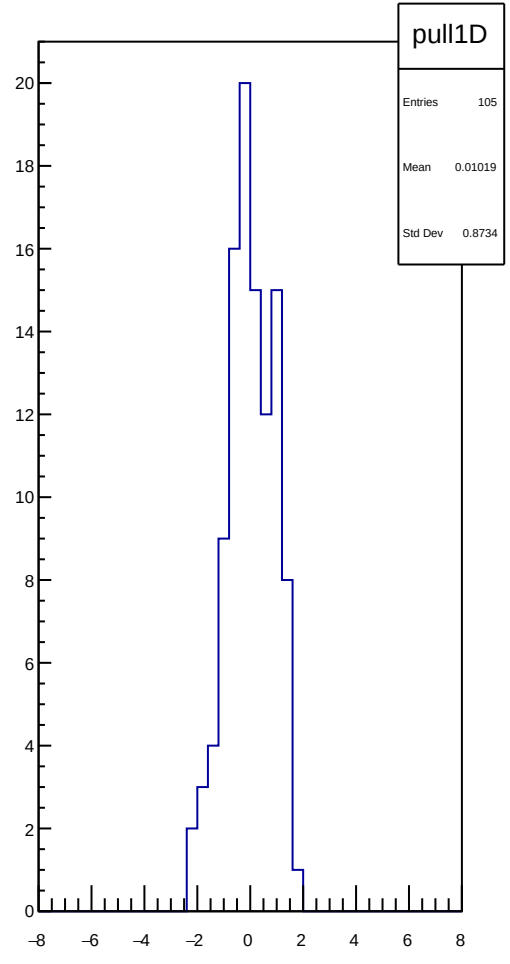

dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 2801 / 104
p0 1512 ± 1.066
1700
1650
1600
1550
1500
1450

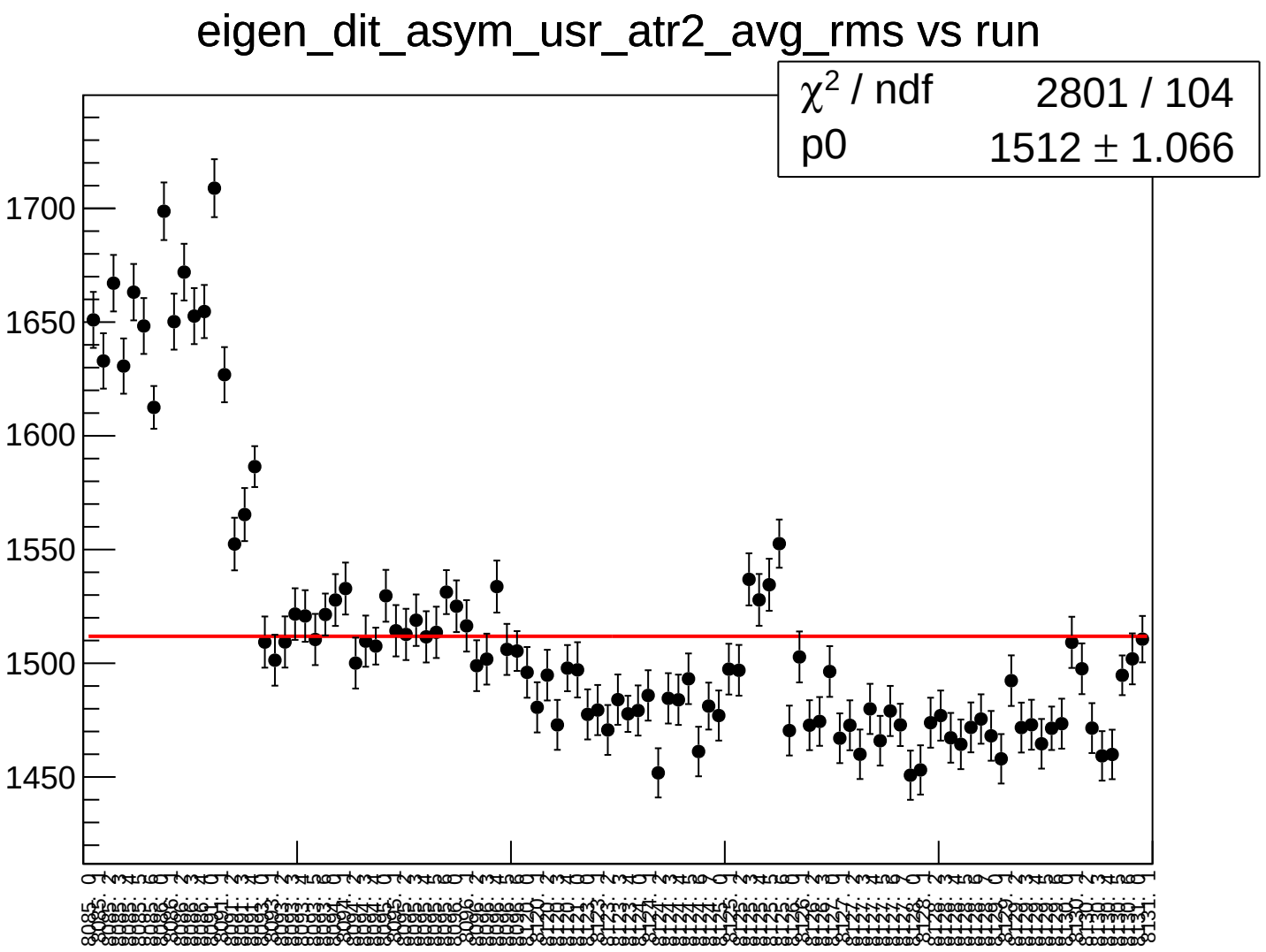

asym_usr_atr2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 86.42 / 105
p0 1.208e+04 ± 7251
300
200
100
0
−100
−200
pull
Entries 106
Mean −120.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

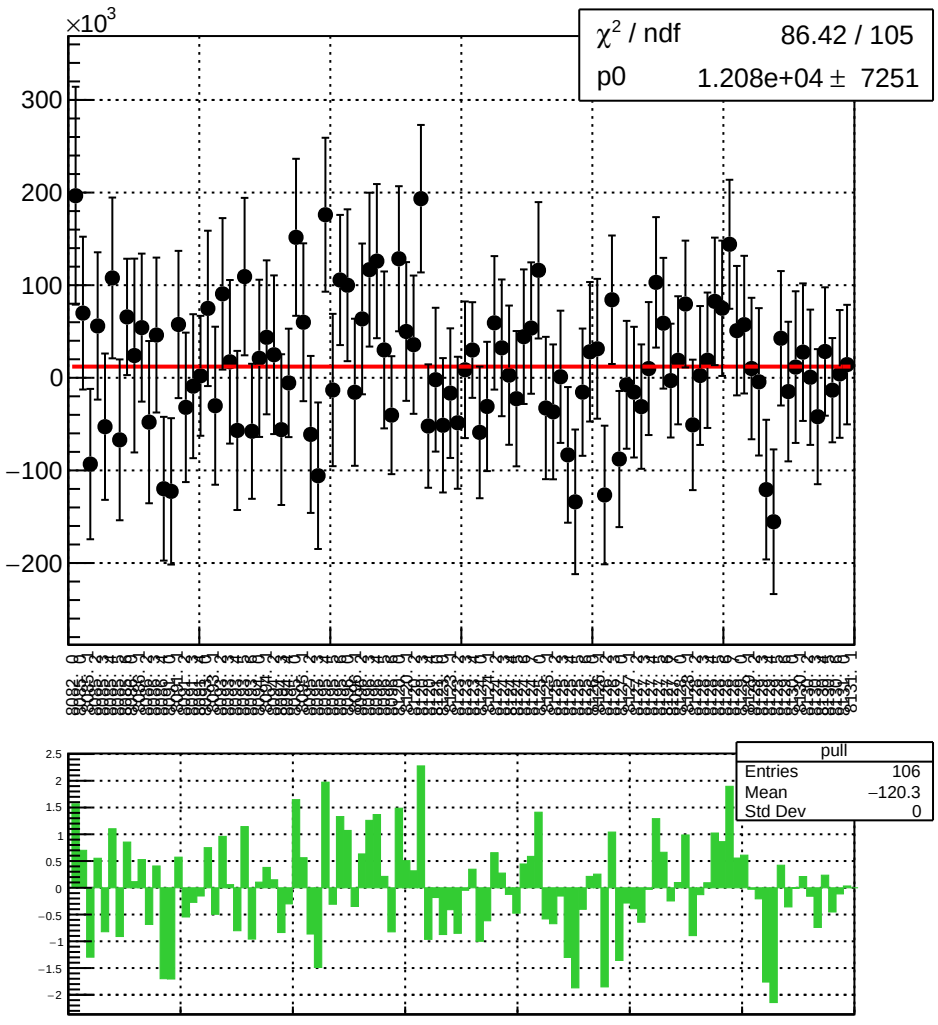

pull1D
Entries 106
Mean 0.01111
Std Dev 0.9029
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

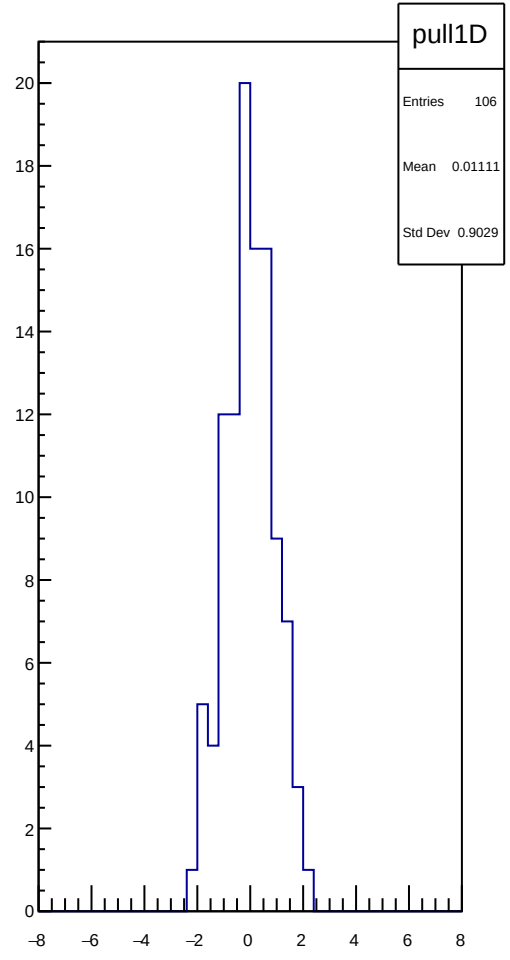

asym_usr_atr2_avg_dit_correction_rms vs run
χ² / ndf 1.19e+04 / 105
p0 7271 ± 5.127
10000
9500
9000
8500
8000
7500
7000
6500
6000

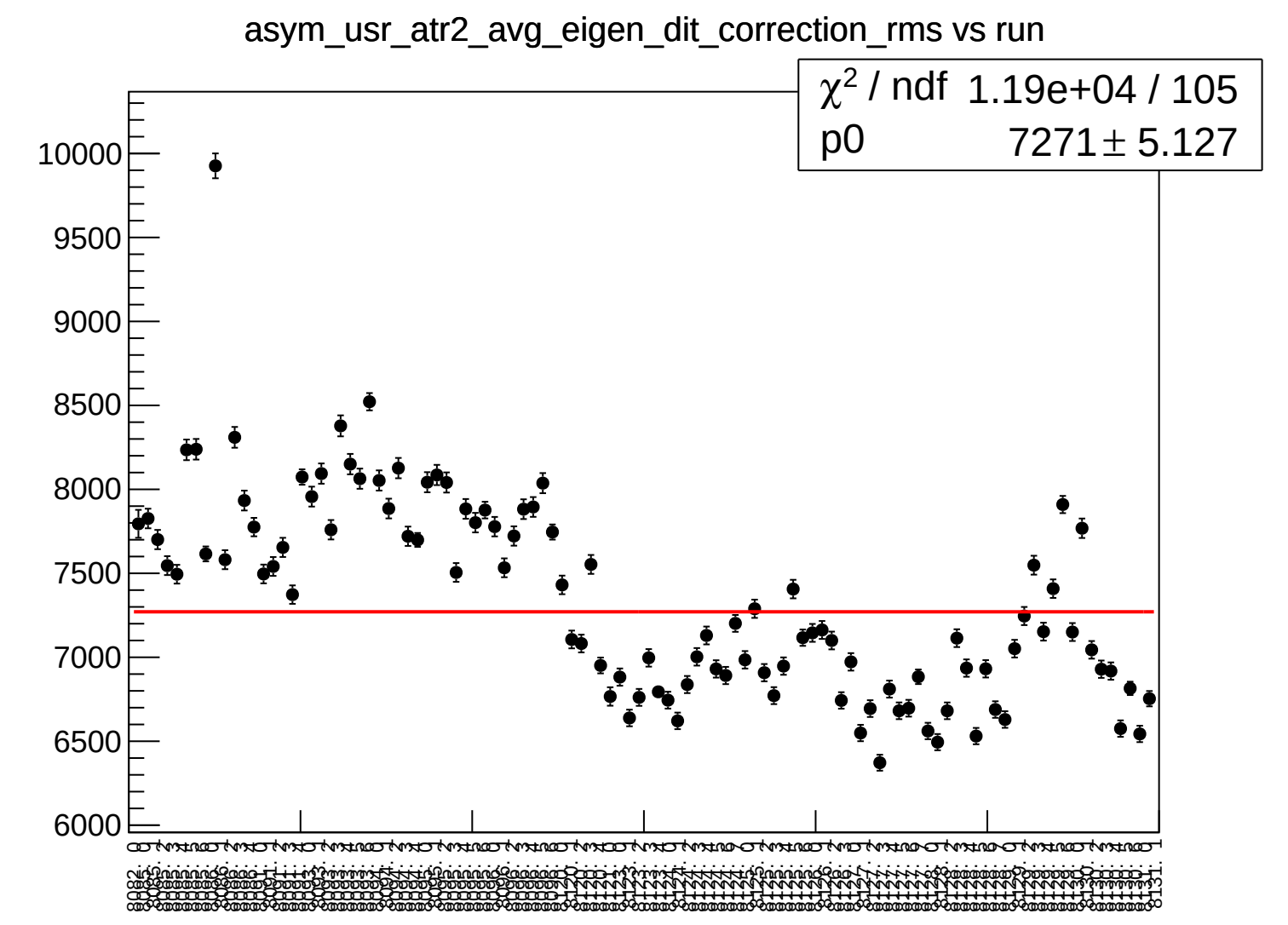

eigen_dit_asym_usr_atr2_avg_mean vs run
χ² / ndf 80.1 / 104
p0 −3791 ± 1508
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean −362.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

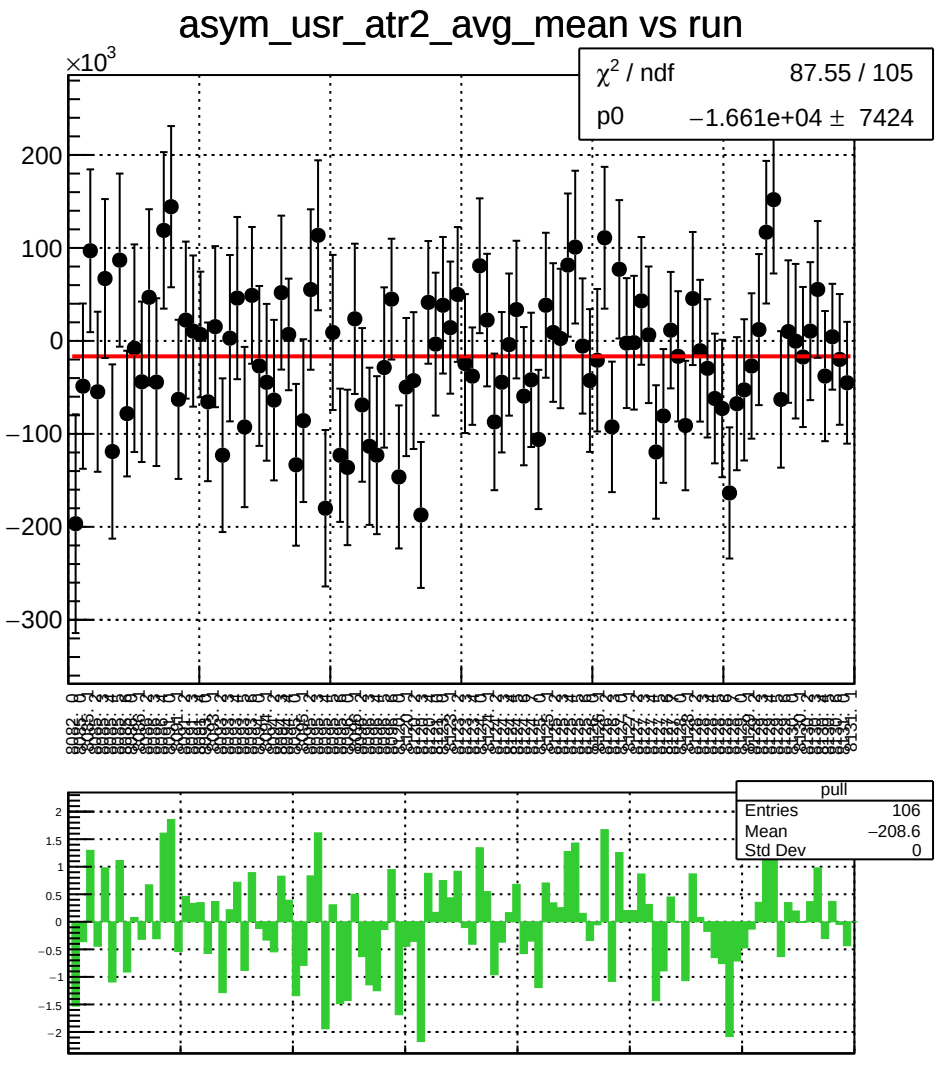

pull1D
Entries 105
Mean 0.01019
Std Dev 0.8734
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

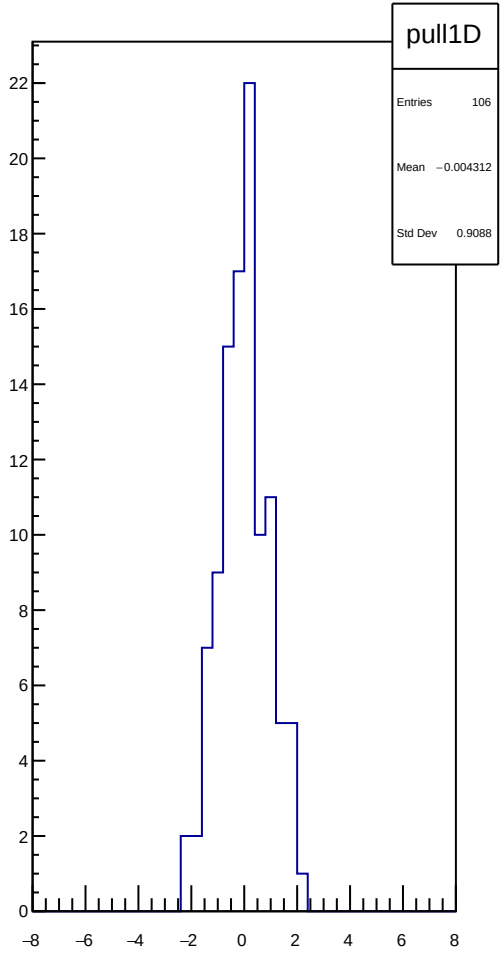

eigen_dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 2801 / 104
p0 1512 ± 1.066
1700
1650
1600
1550
1500
1450

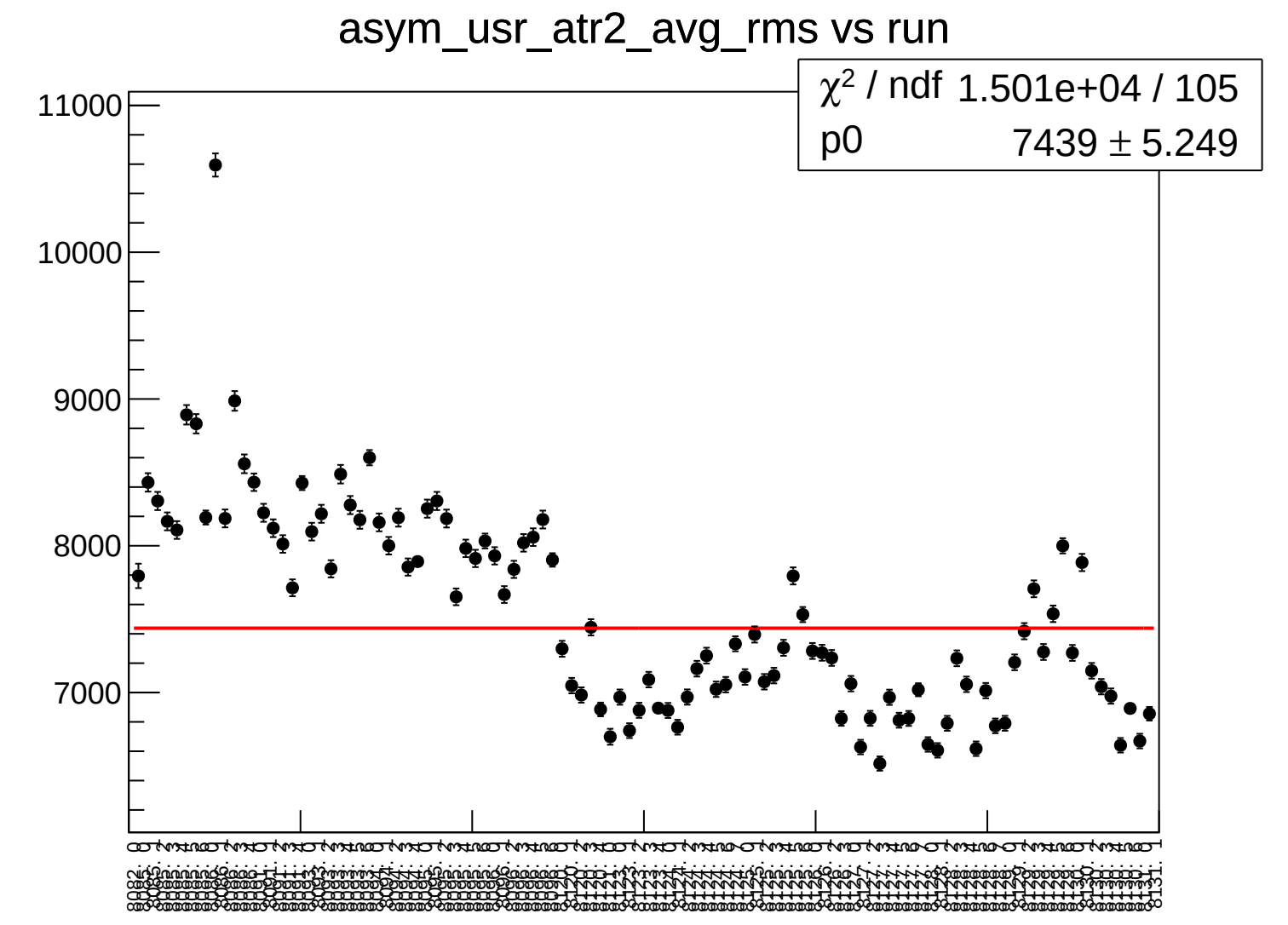

asym_usr_atr2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 86.42 / 105
p0 1.208e+04 ± 7251
300
200
100
0
−100
−200
pull
Entries 106
Mean −120.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

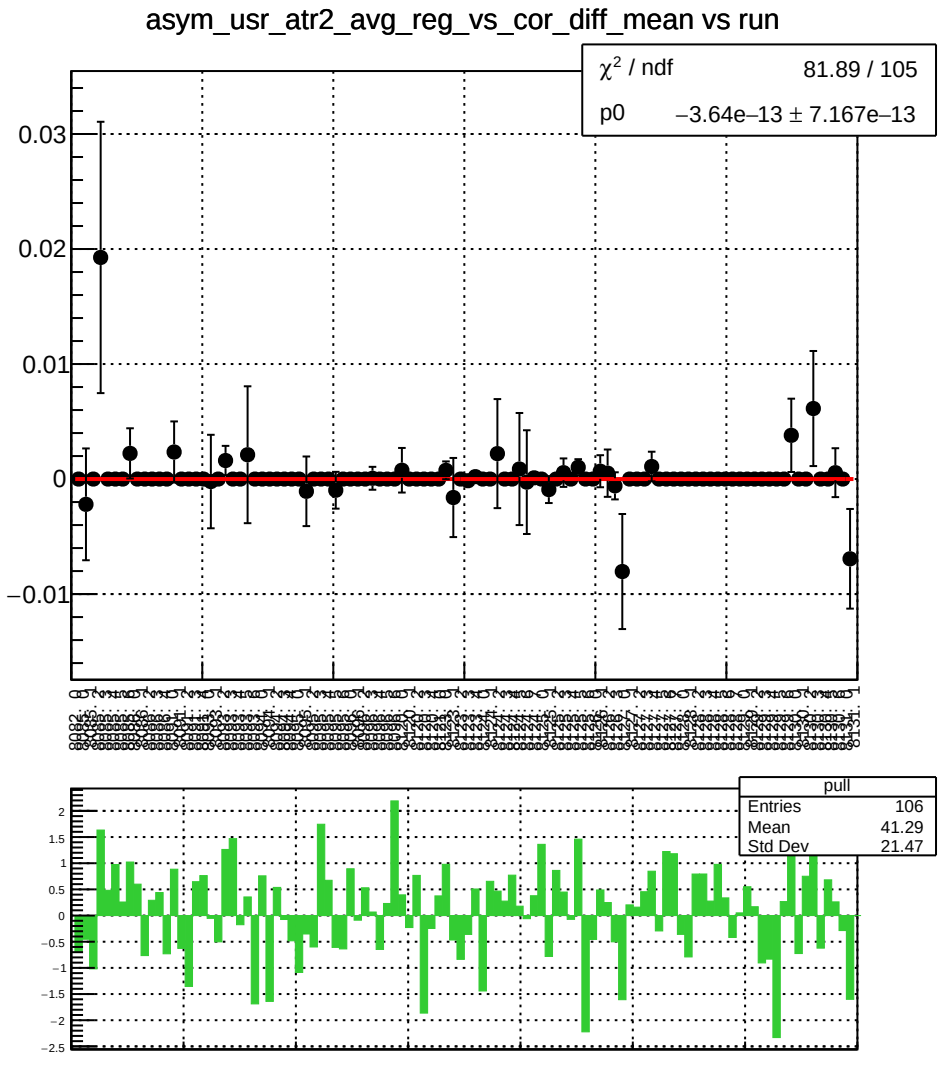

pull1D
Entries 106
Mean 0.01111
Std Dev 0.9029
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

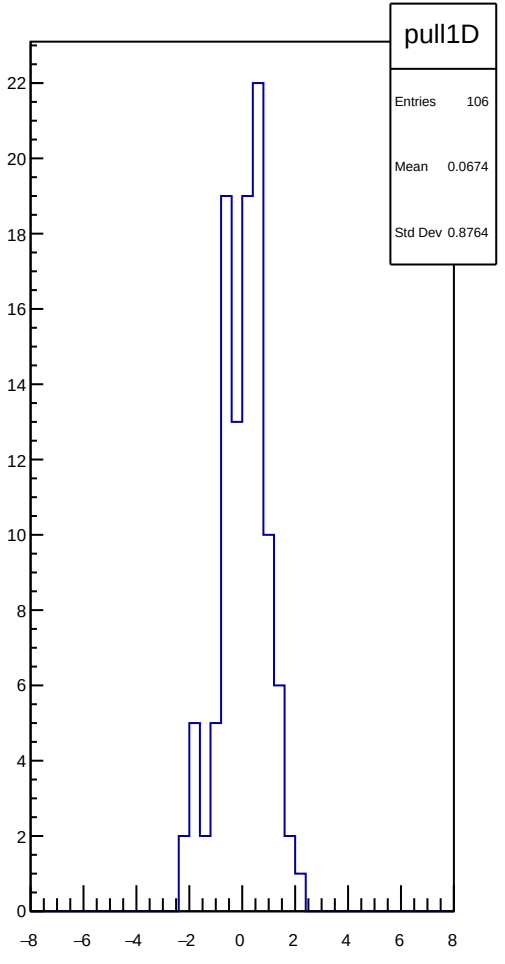

asym_usr_atr2_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.19e+04 / 105
p0 7271 ± 5.127
10000
9500
9000
8500
8000
7500
7000
6500
6000

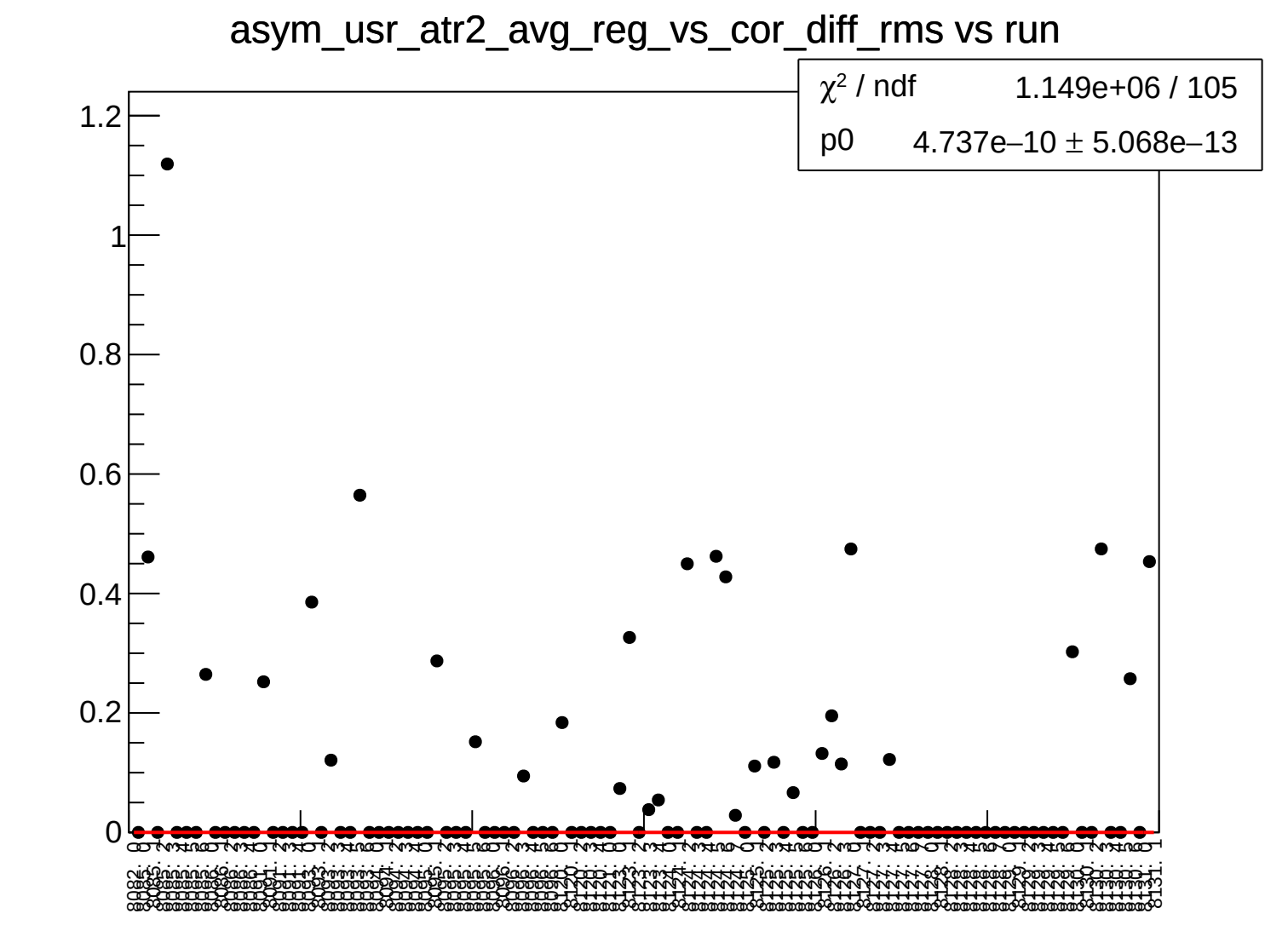

asym_usr_atr2_avg_mean vs run
×10^3
χ² / ndf 87.55 / 105
p0 −1.661e+04 ± 7424
200
100
0
−100
−200
−300
pull
Entries 106
Mean −208.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

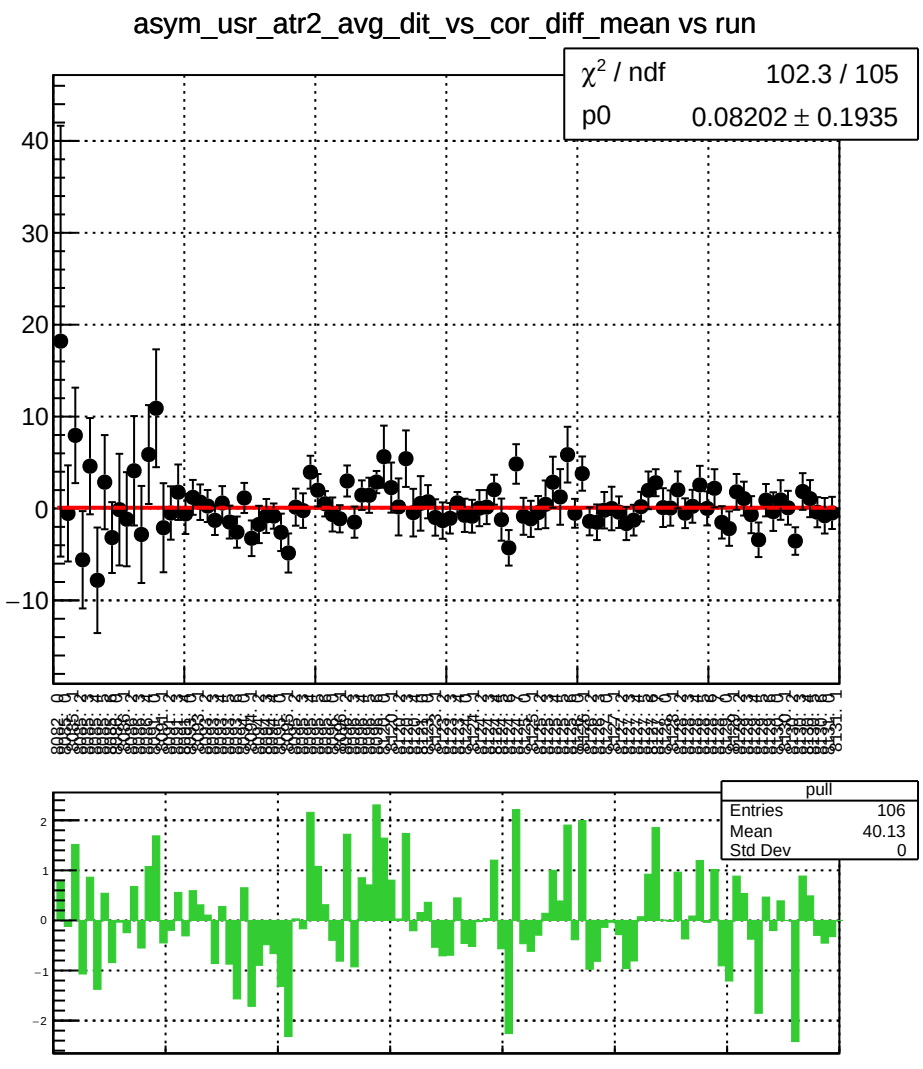

pull1D
Entries 106
Mean −0.004312
Std Dev 0.9088
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

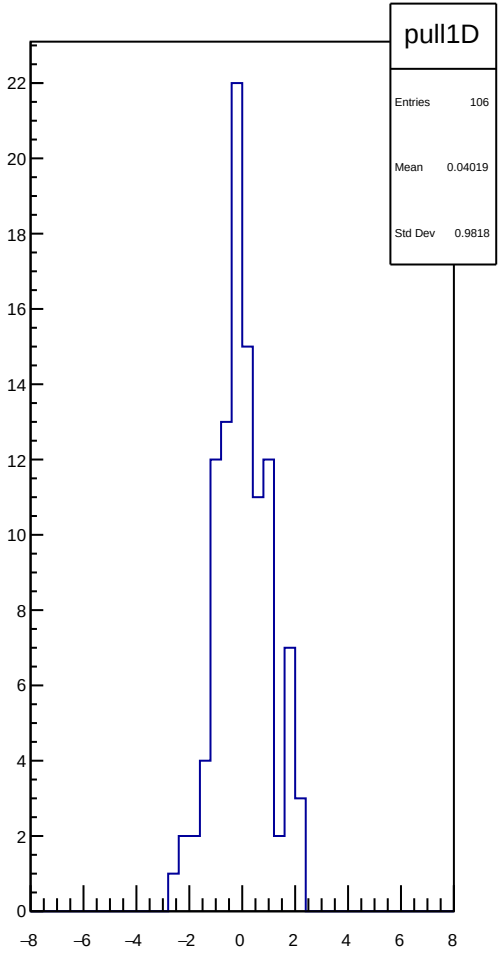

asym_usr_atr2_avg_rms vs run
χ² / ndf 1.501e+04 / 105
p0 7439 ± 5.249
11000
10000
9000
8000
7000

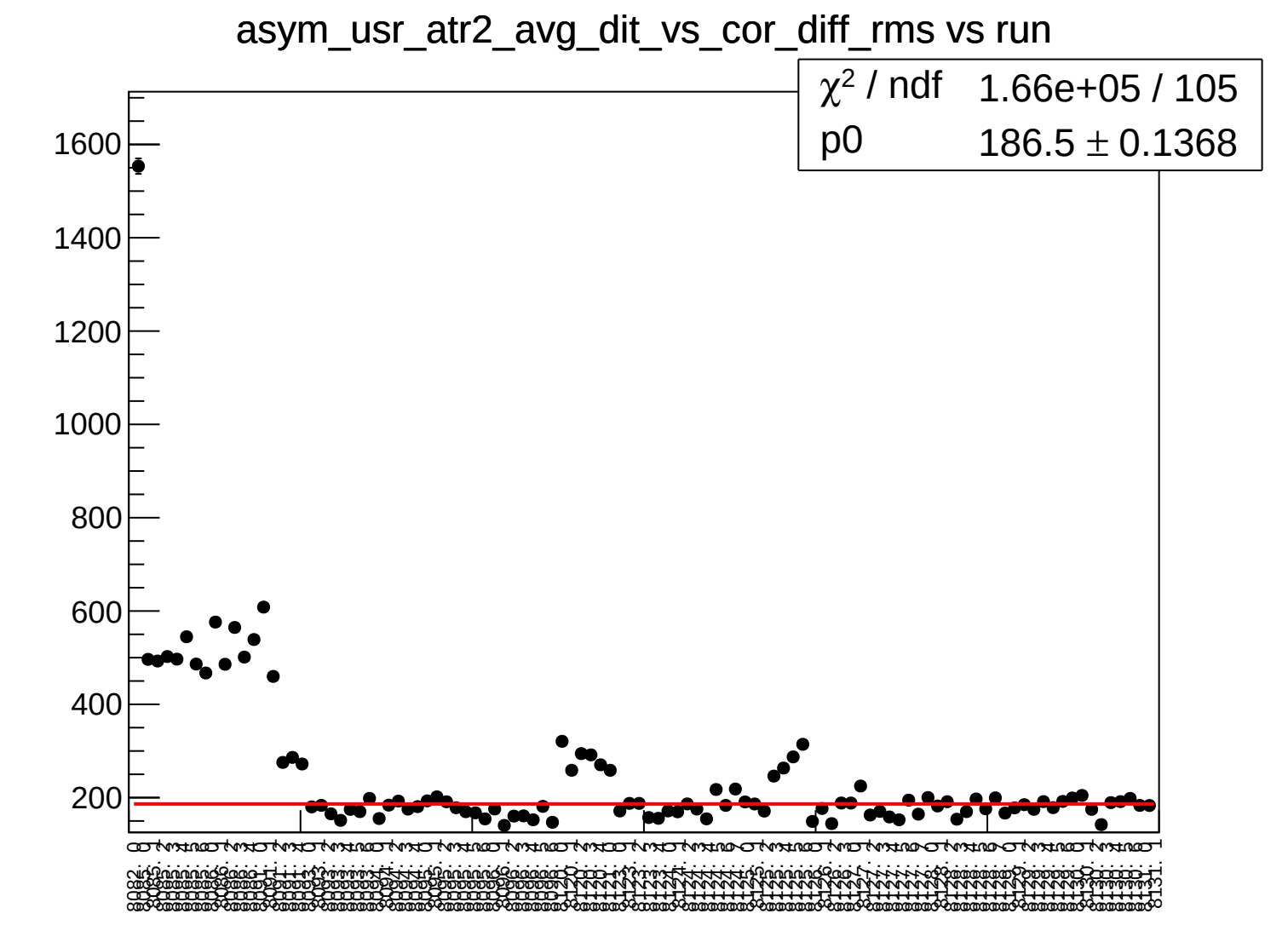

asym_usr_atr2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 81.89 / 105
p0 −3.64e−13 ± 7.167e−13
0.03
0.02
0.01
0
−0.01
pull
Entries 106
Mean 41.29
Std Dev 21.47
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

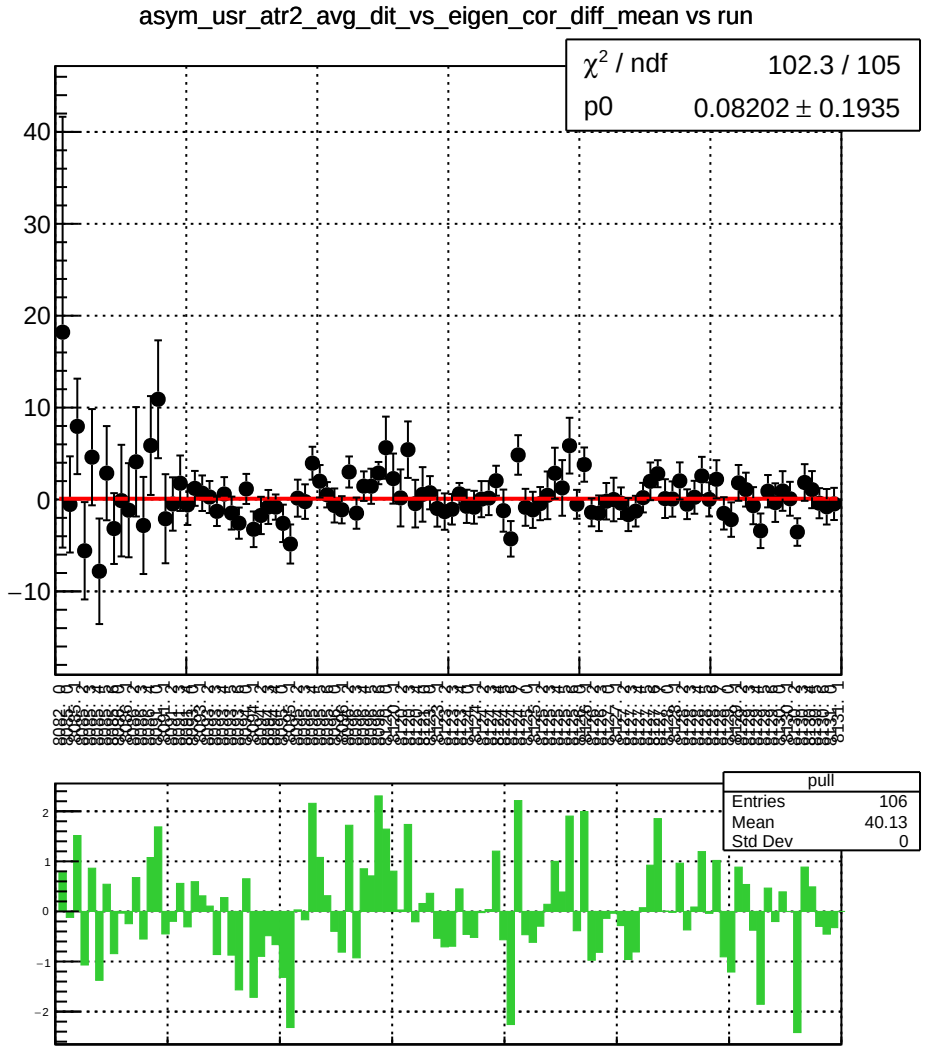

pull1D
Entries 106
Mean 0.0674
Std Dev 0.8764
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

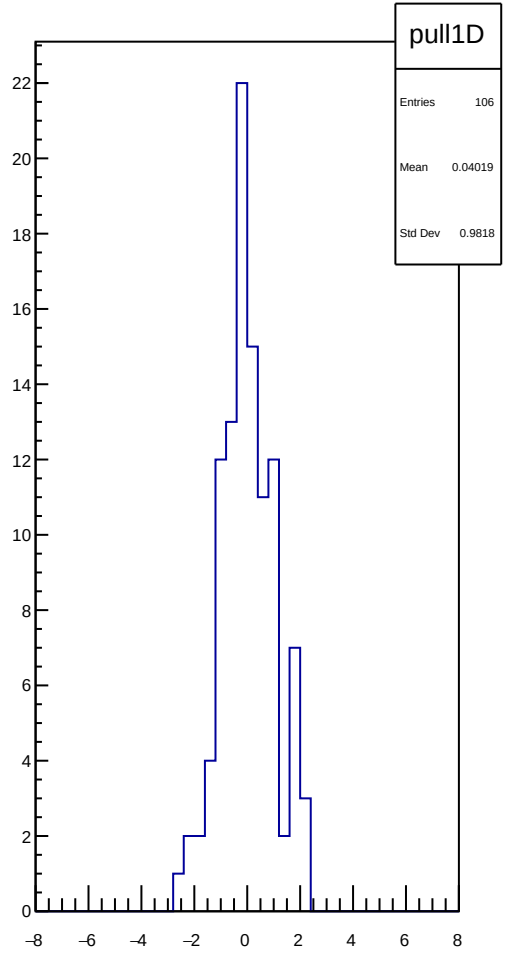

asym_usr_atr2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.149e+06 / 105
p0 4.737e−10 ± 5.068e−13
1.2
1
0.8
0.6
0.4
0.2
0

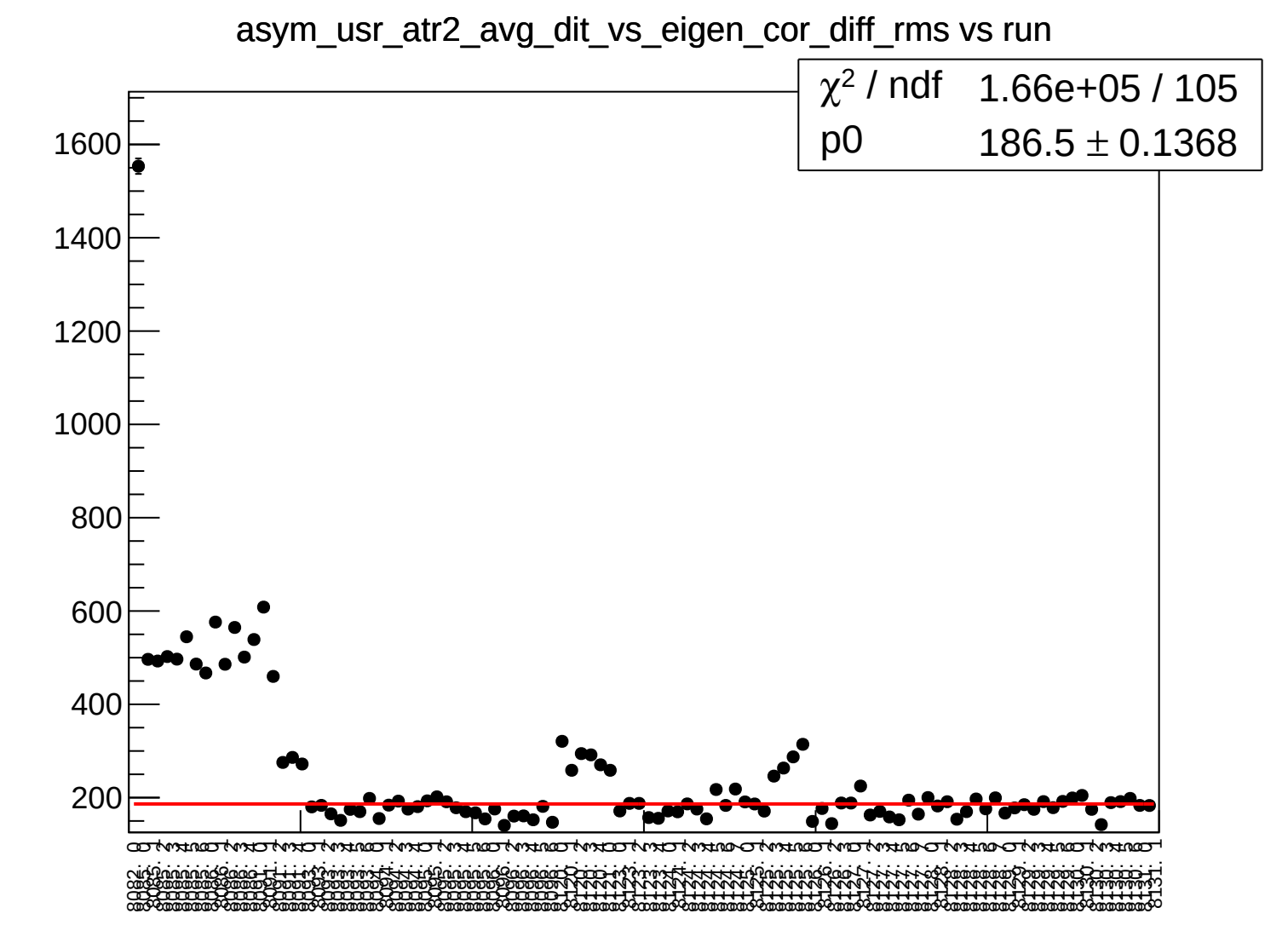

asym_usr_atr2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 102.3 / 105
p0 0.08202 ± 0.1935
pull
Entries 106
Mean 40.13
Std Dev 0

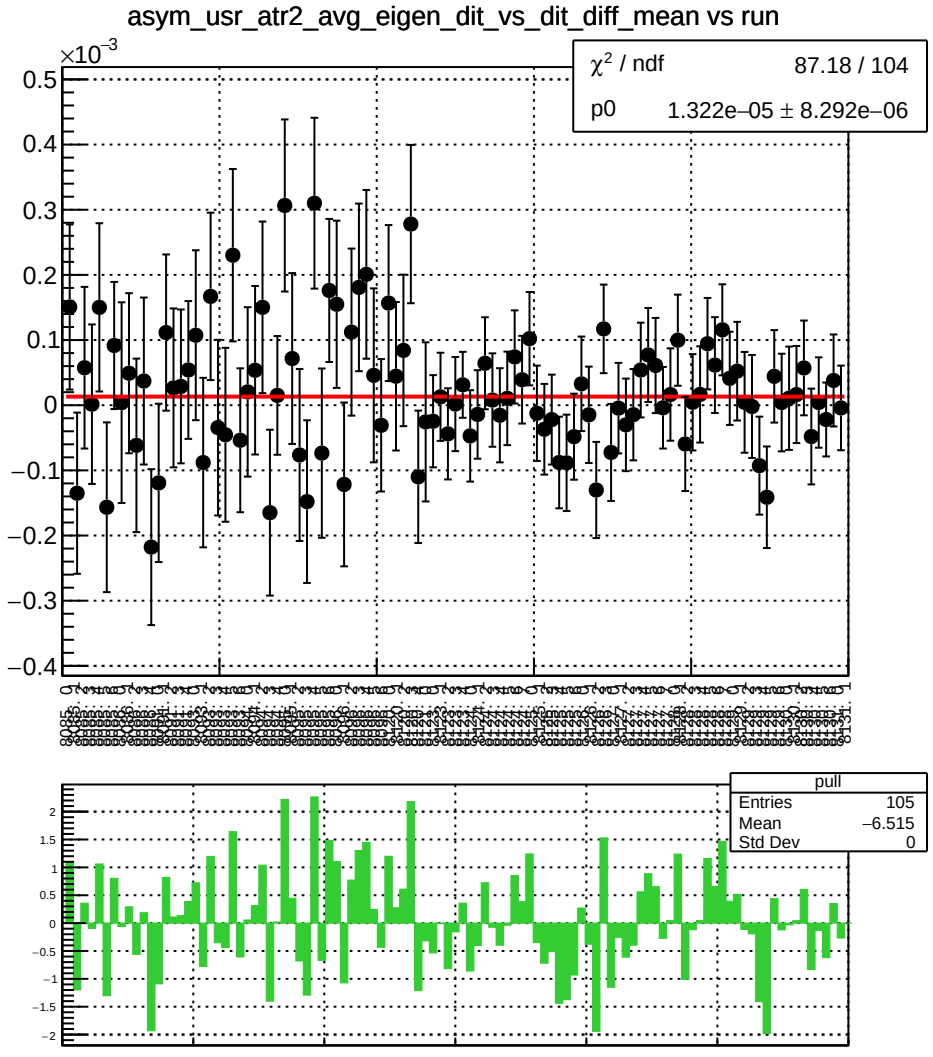

pull1D
Entries 106
Mean 0.04019
Std Dev 0.9818

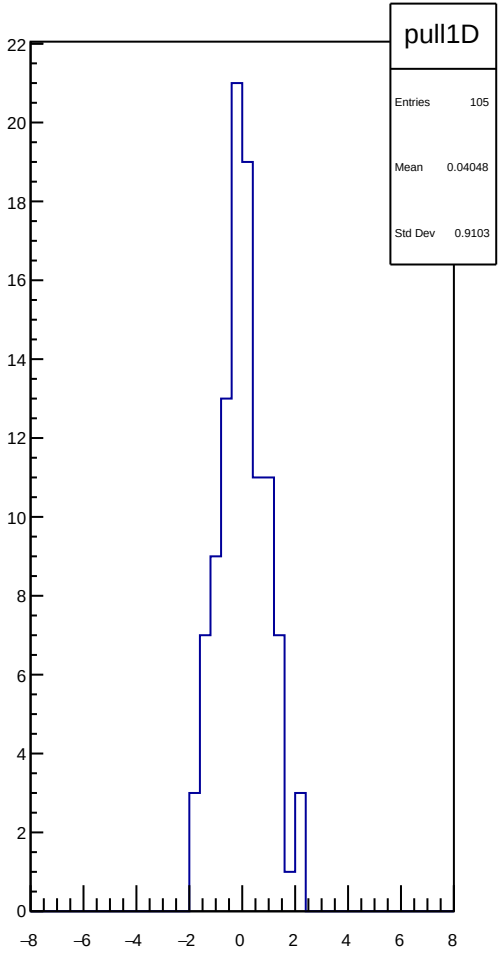

asym_usr_atr2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.66e+05 / 105
p0 186.5 ± 0.1368
1600
1400
1200
1000
800
600
400
200

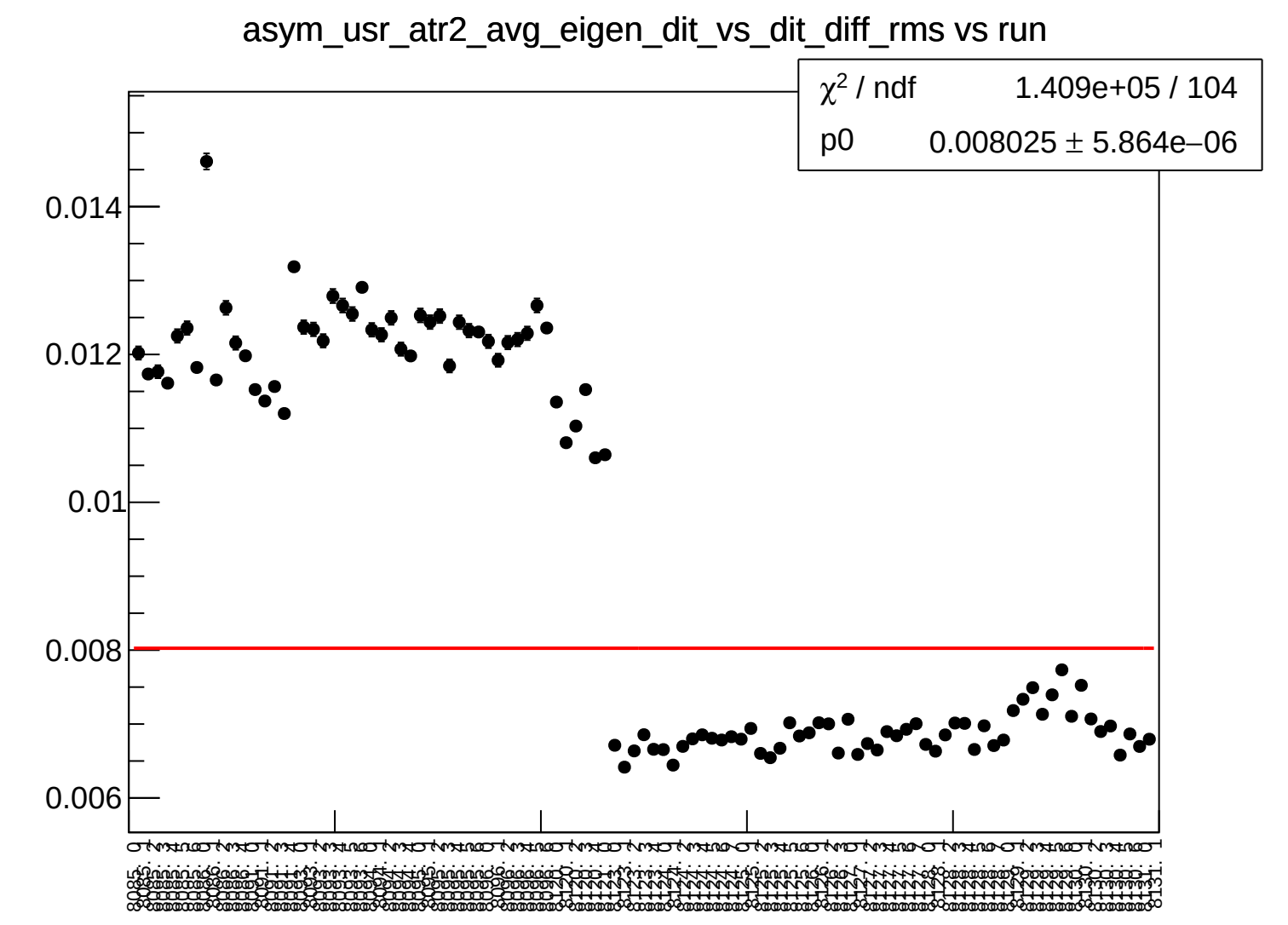

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.3 / 105
p0 0.08202 ± 0.1935
pull
Entries 106
Mean 40.13
Std Dev 0

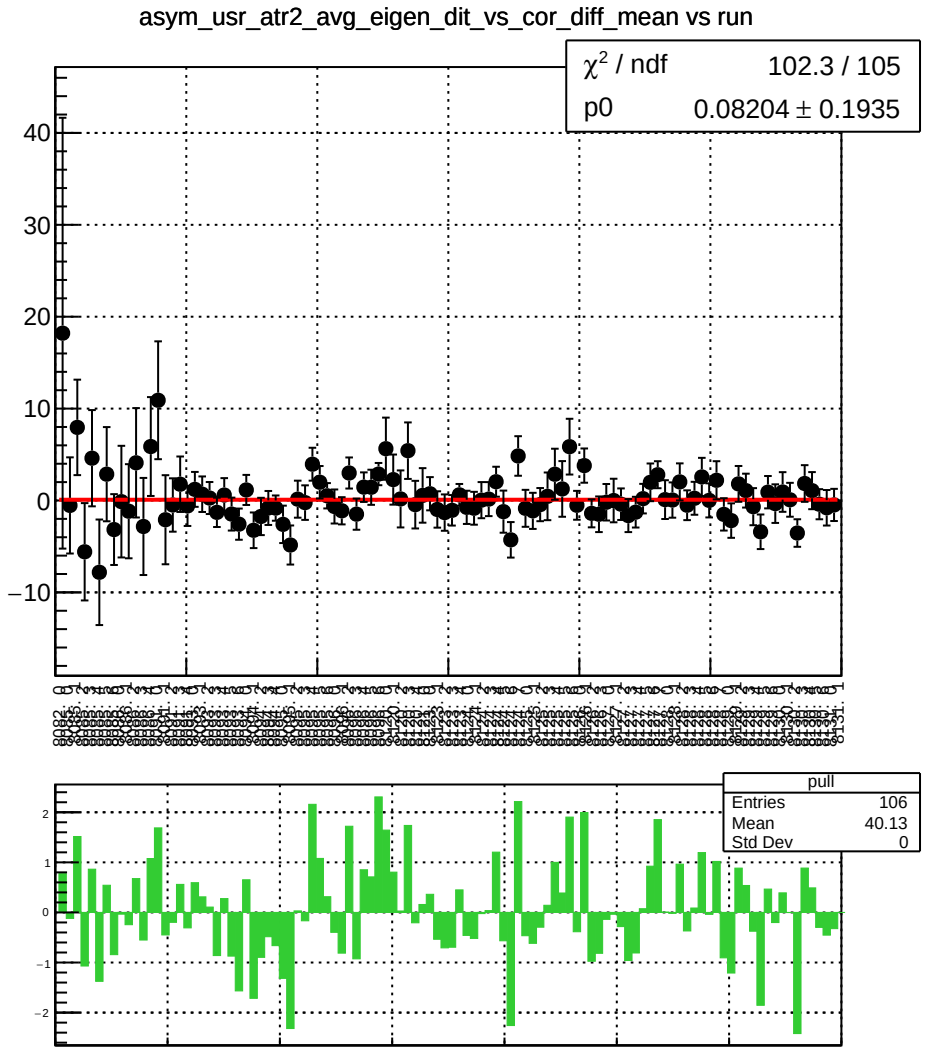

pull1D
Entries 106
Mean 0.04019
Std Dev 0.9818

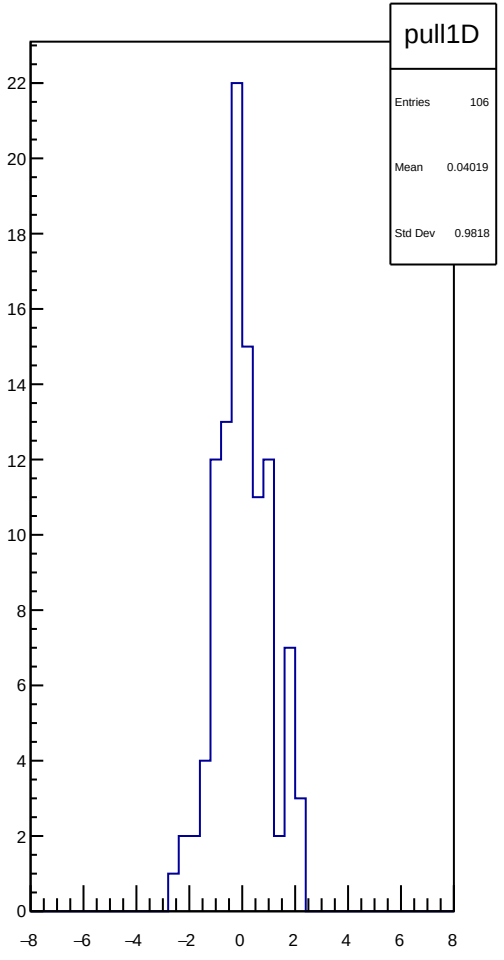

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.66e+05 / 105
p0 186.5 ± 0.1368
1600
1400
1200
1000
800
600
400
200

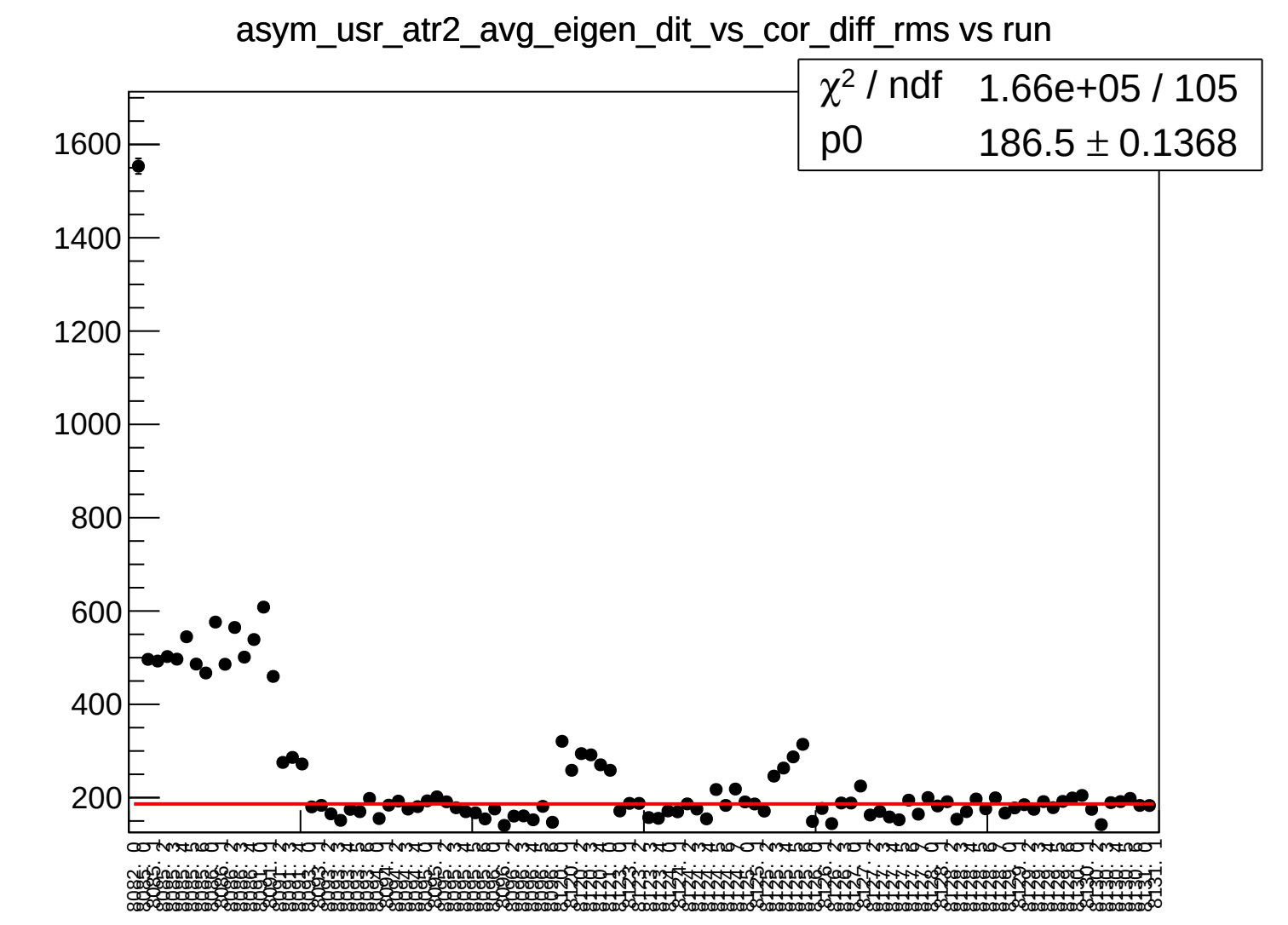

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.18 / 104
p0 1.322e−05 ± 8.292e−06
pull
Entries 105
Mean −6.515
Std Dev 0

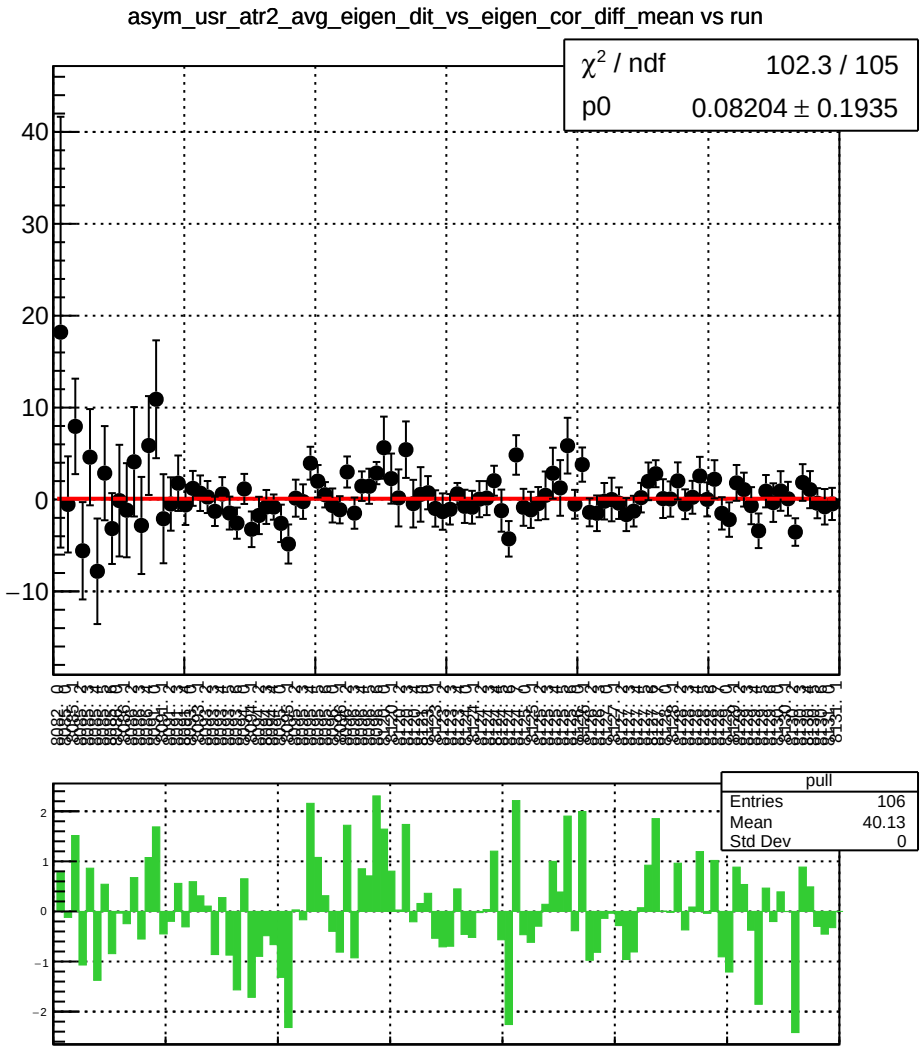

pull1D
Entries 105
Mean 0.04048
Std Dev 0.9103

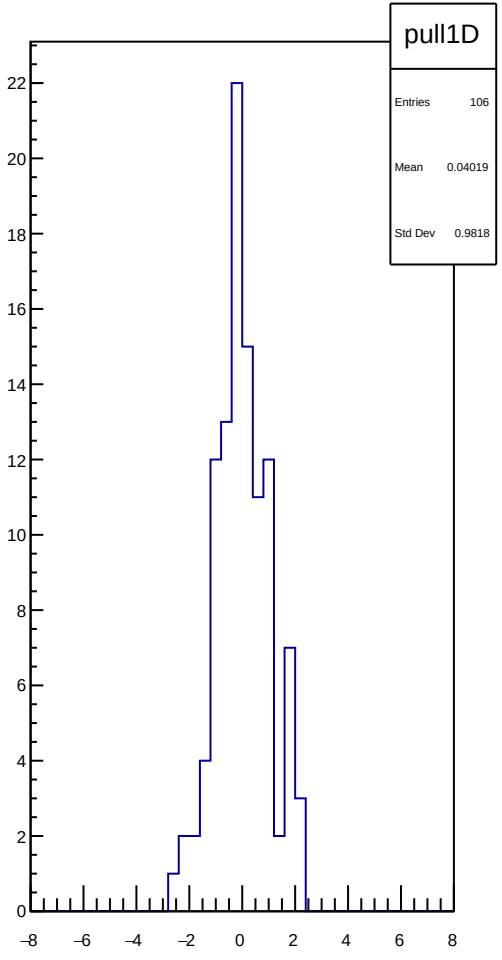

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.409e+05 / 104
p0 0.008025 ± 5.864e−06
0.014
0.012
0.01
0.008
0.006

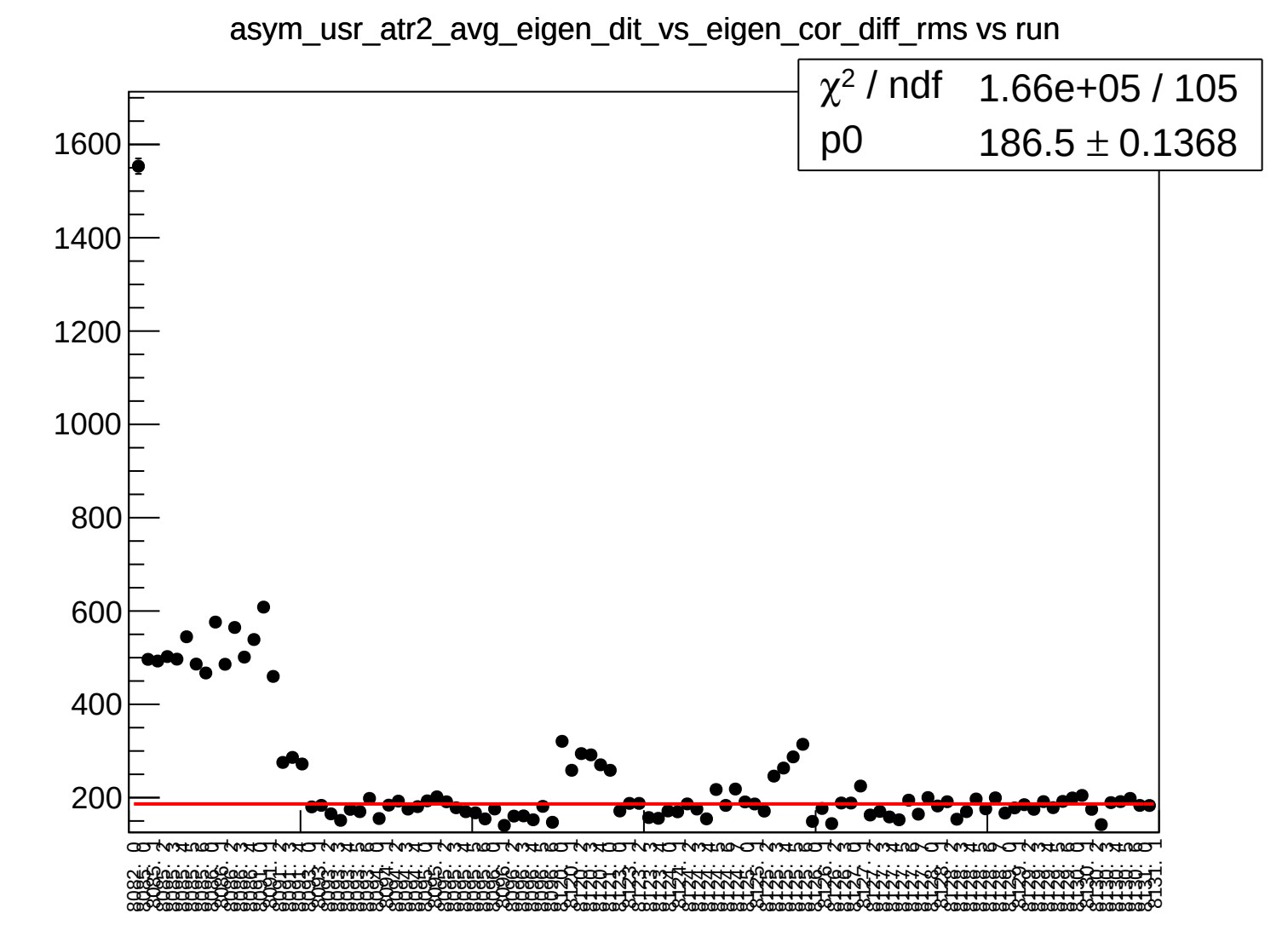

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 102.3 / 105
p0 0.08204 ± 0.1935
pull
Entries 106
Mean 40.13
Std Dev 0

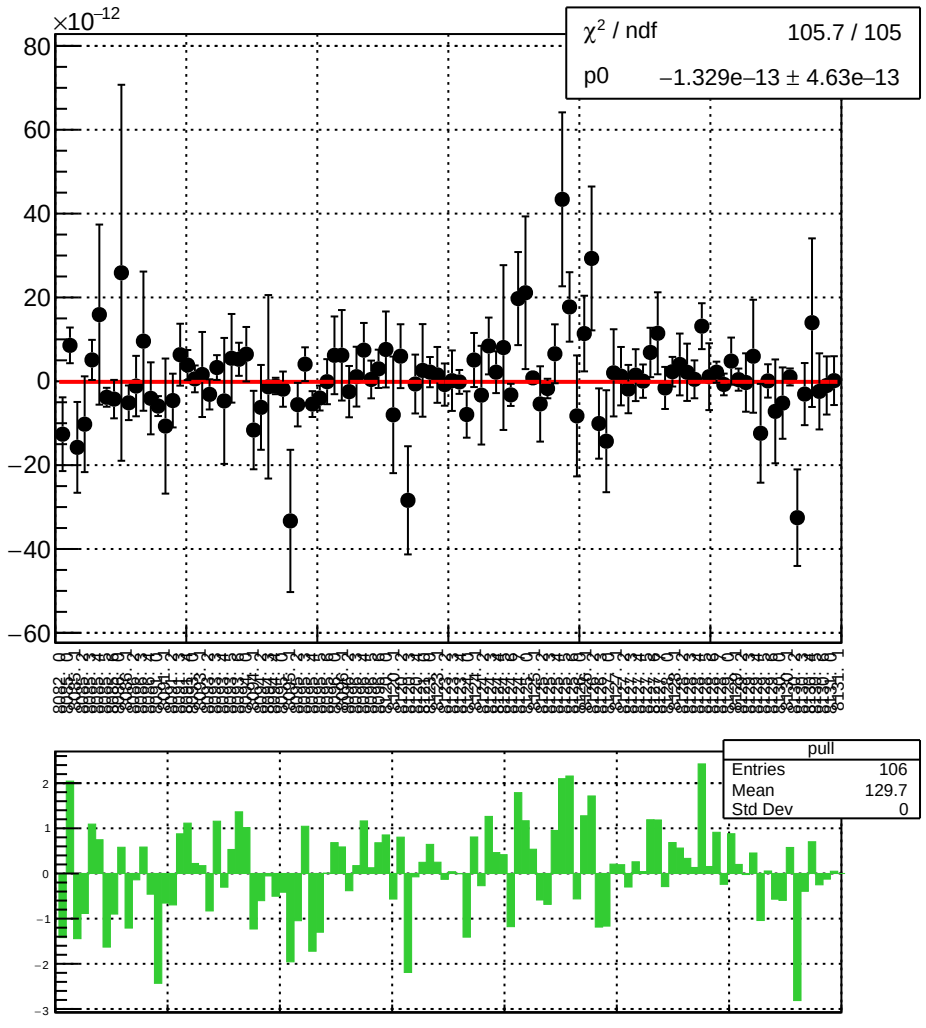

pull1D
Entries 106
Mean 0.04019
Std Dev 0.9818

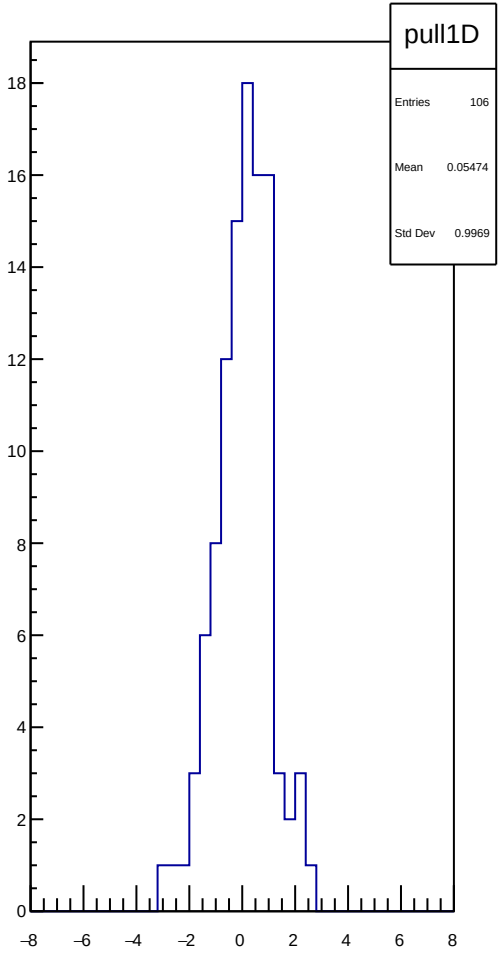

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.66e+05 / 105
p0 186.5 ± 0.1368
1600
1400
1200
1000
800
600
400
200

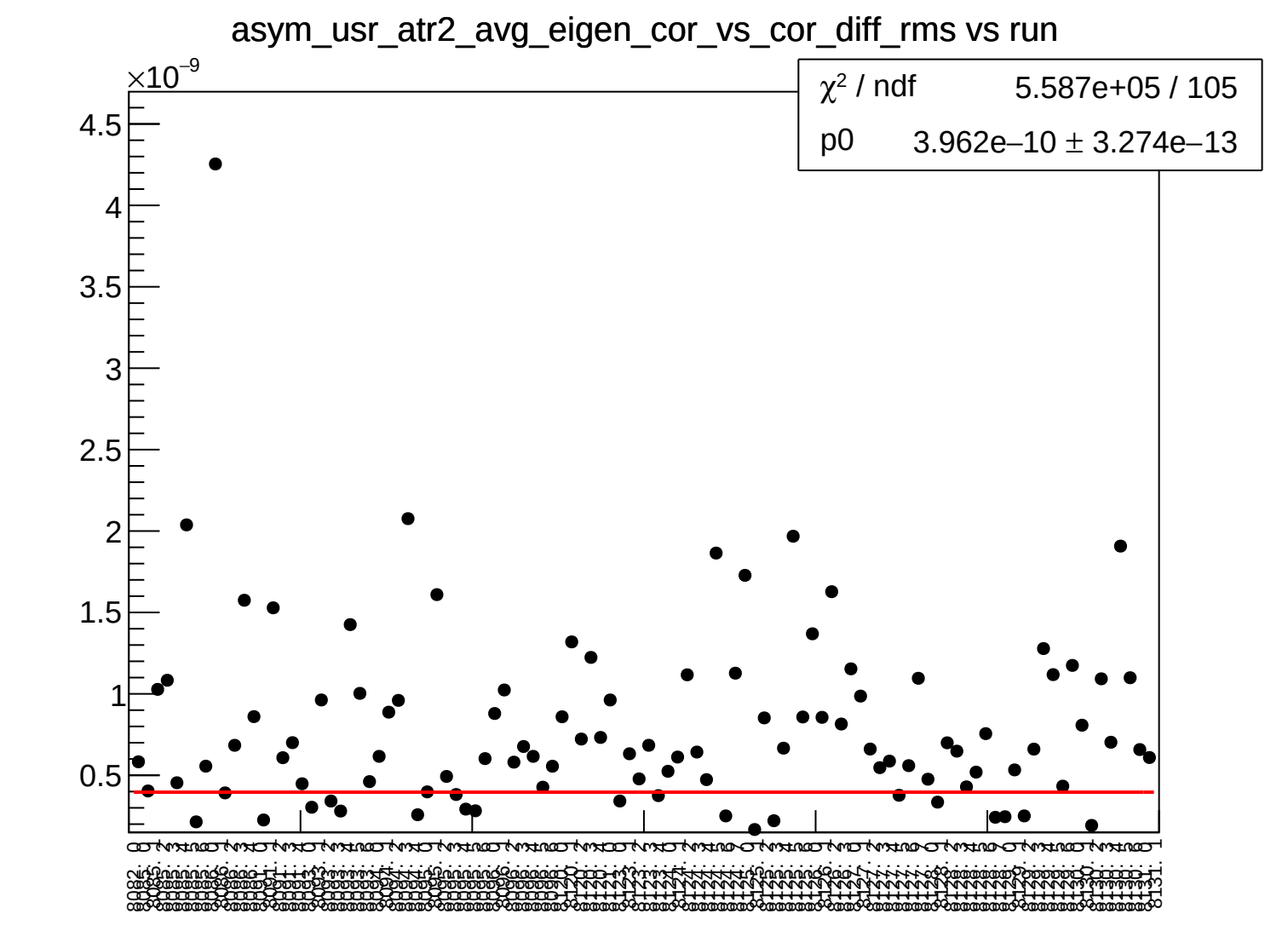

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.3 / 105
p0 0.08204 ± 0.1935
pull
Entries 106
Mean 40.13
Std Dev 0

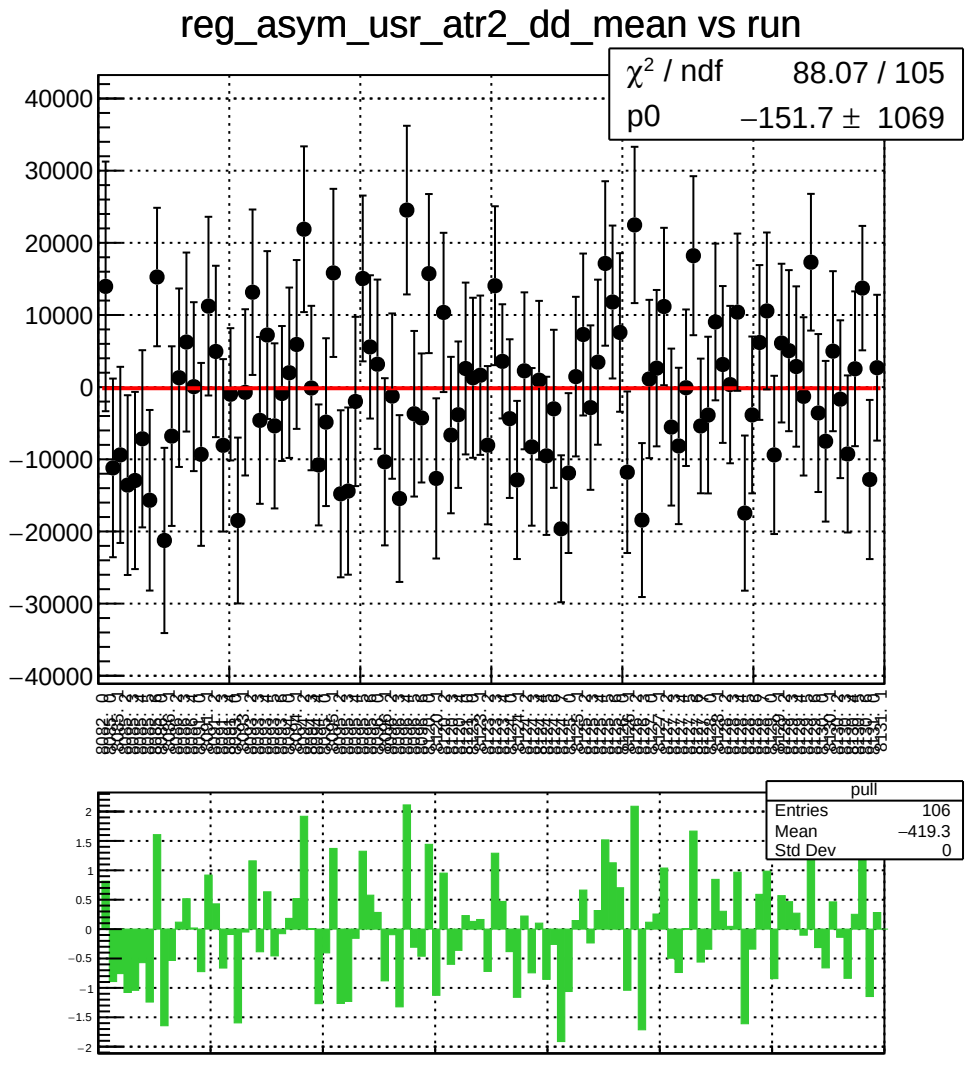

pull1D
Entries 106
Mean 0.04019
Std Dev 0.9818

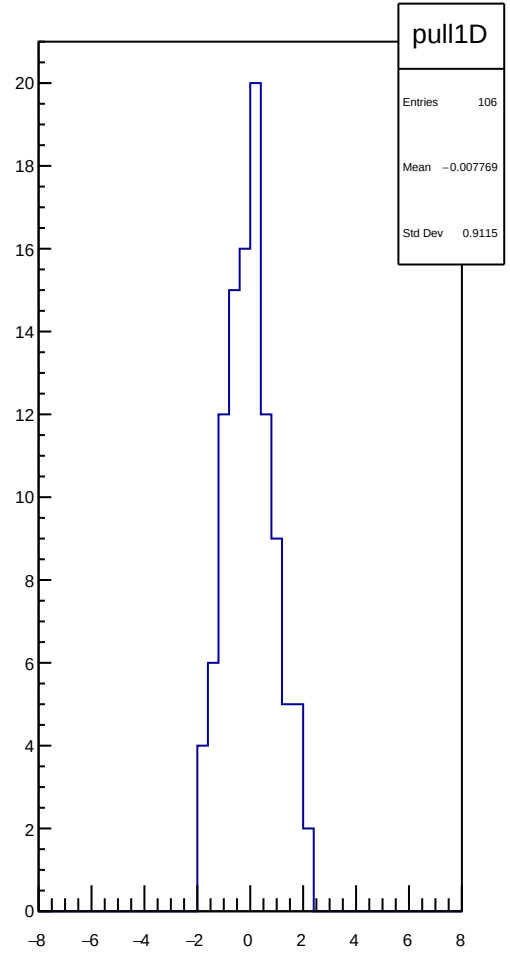

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.66e+05 / 105
p0 186.5 ± 0.1368
1600
1400
1200
1000
800
600
400
200

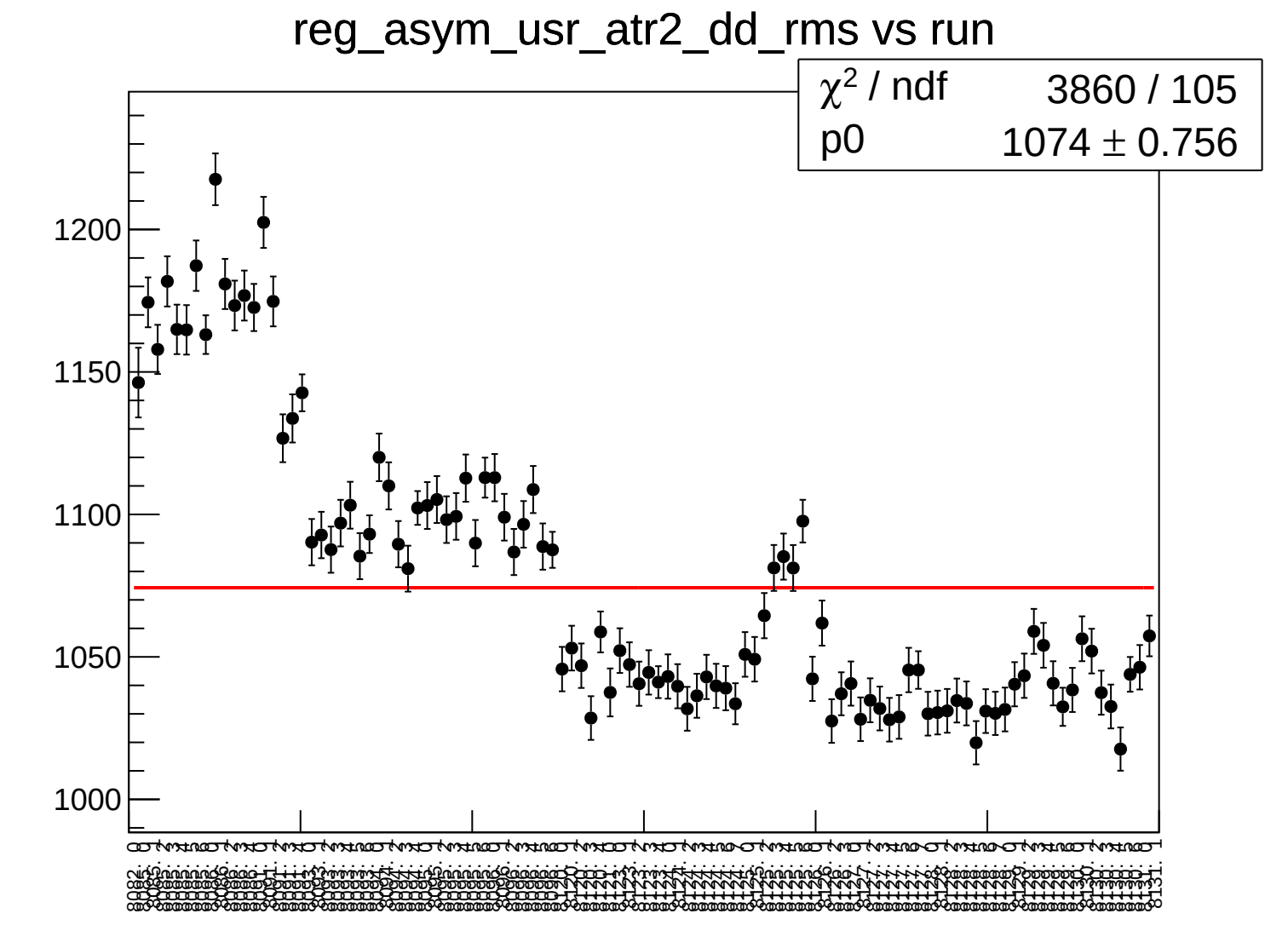

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 105.7 / 105
p0 −1.329e−13 ± 4.63e−13
pull
Entries 106
Mean 129.7
Std Dev 0

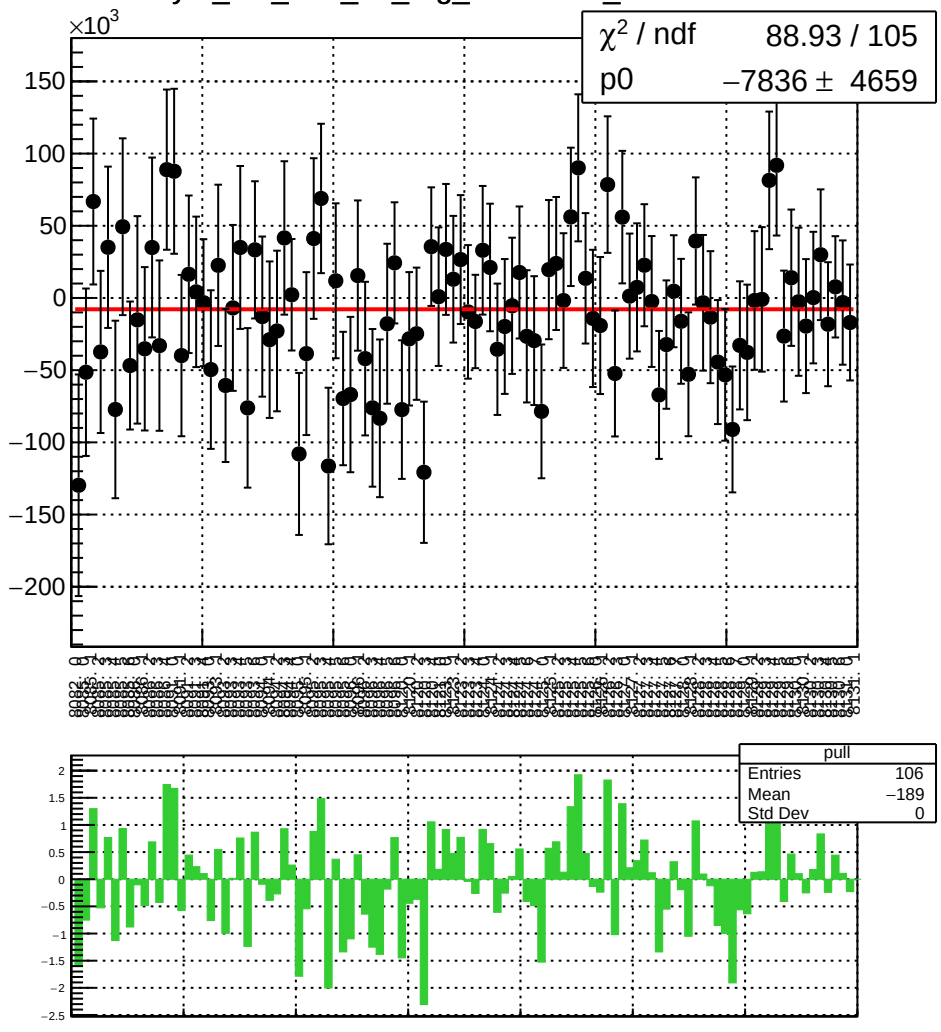

pull1D
Entries 106
Mean 0.05474
Std Dev 0.9969

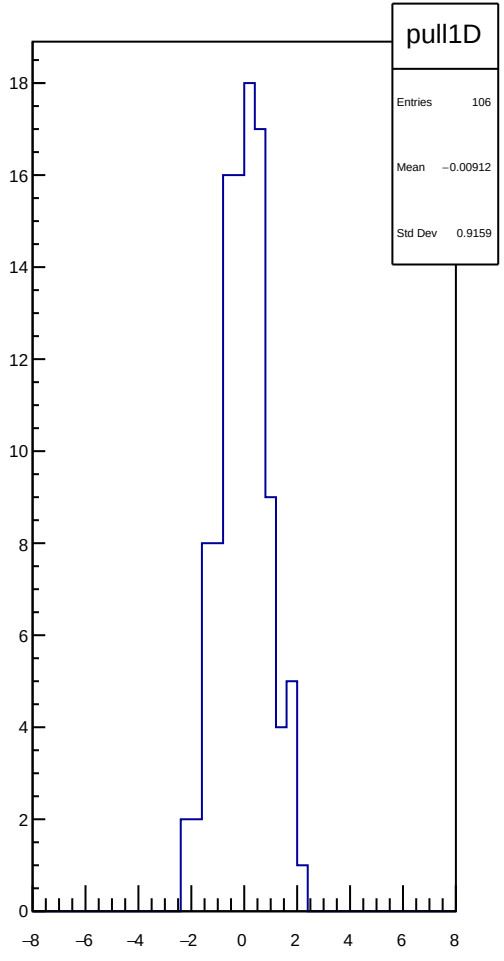

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.587e+05 / 105
p0 3.962e−10 ± 3.274e−13
4.5
4
3.5
3
2.5
2
1.5
1
0.5

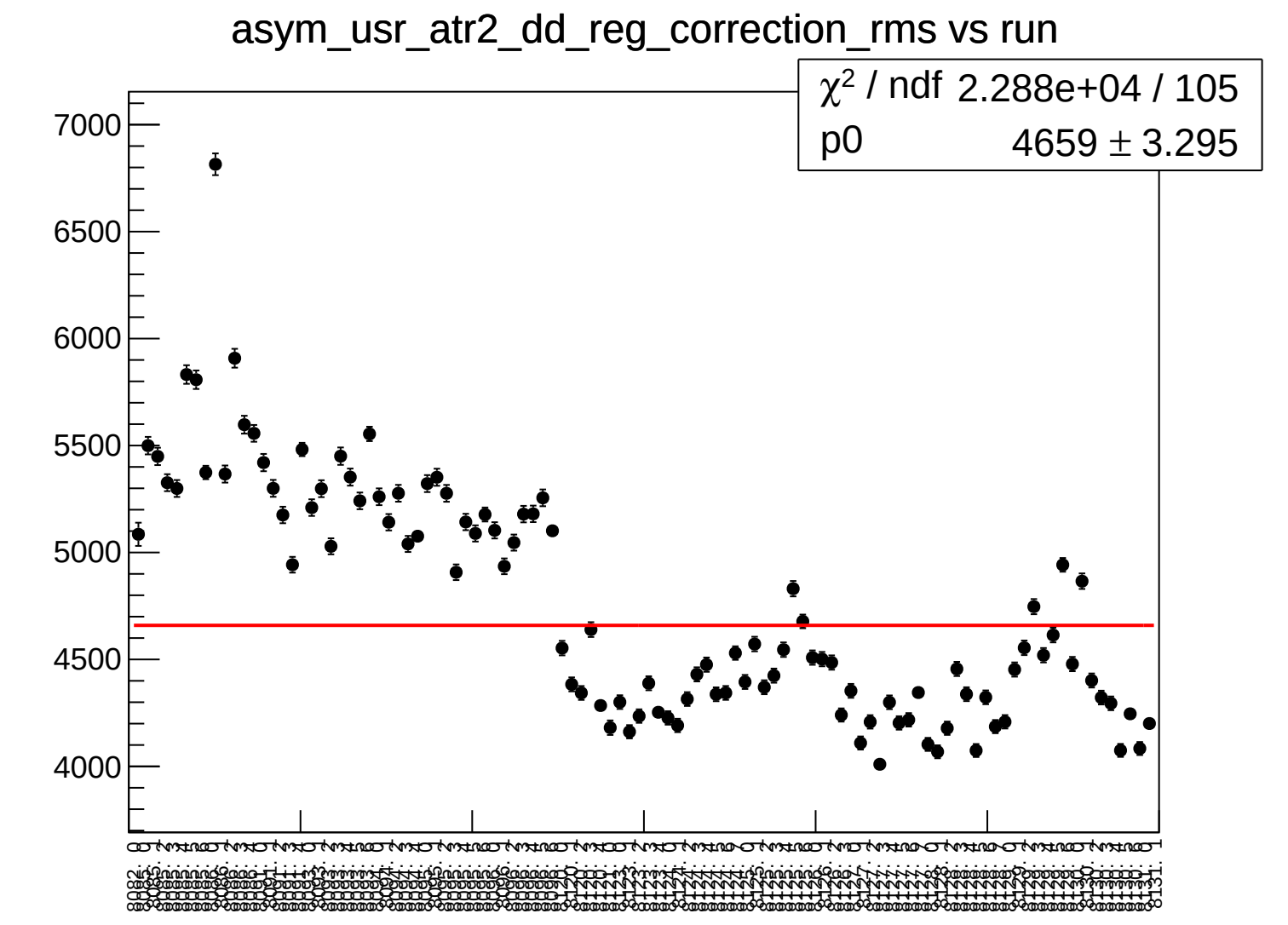

reg_asym_usr_atr2_dd_mean vs run
χ² / ndf 88.07 / 105
p0 −151.7 ± 1069
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 106
Mean −419.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

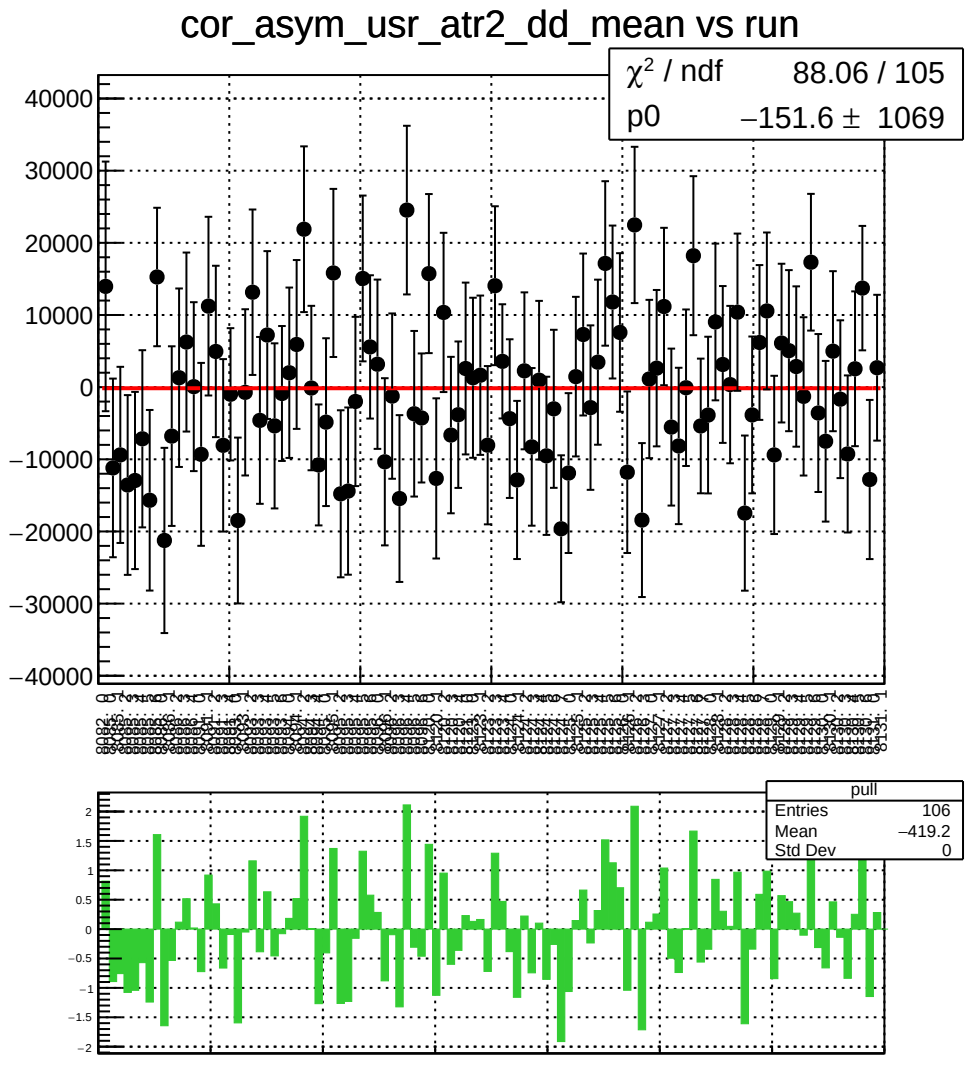

pull1D
Entries 106
Mean −0.007769
Std Dev 0.9115
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

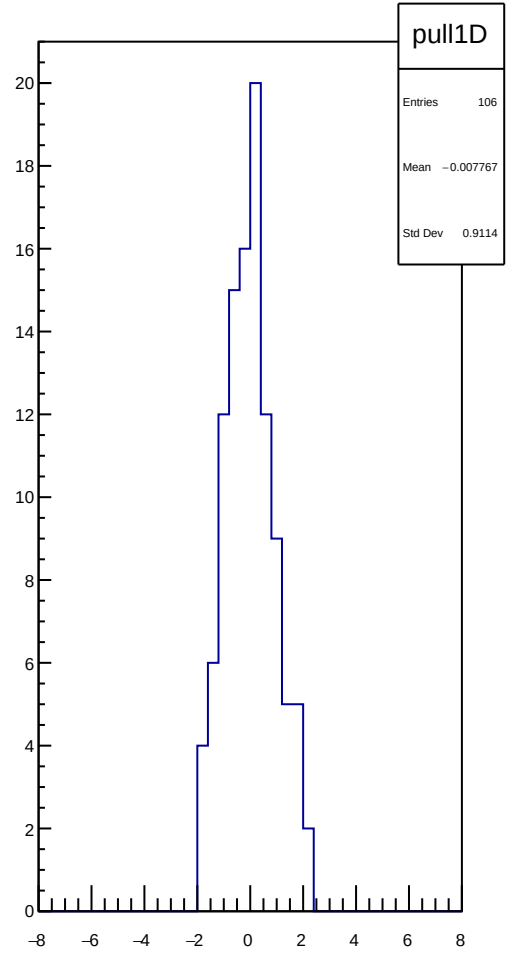

reg_asym_usr_atr2_dd_rms vs run
χ² / ndf 3860 / 105
p0 1074 ± 0.756
1200
1150
1100
1050
1000

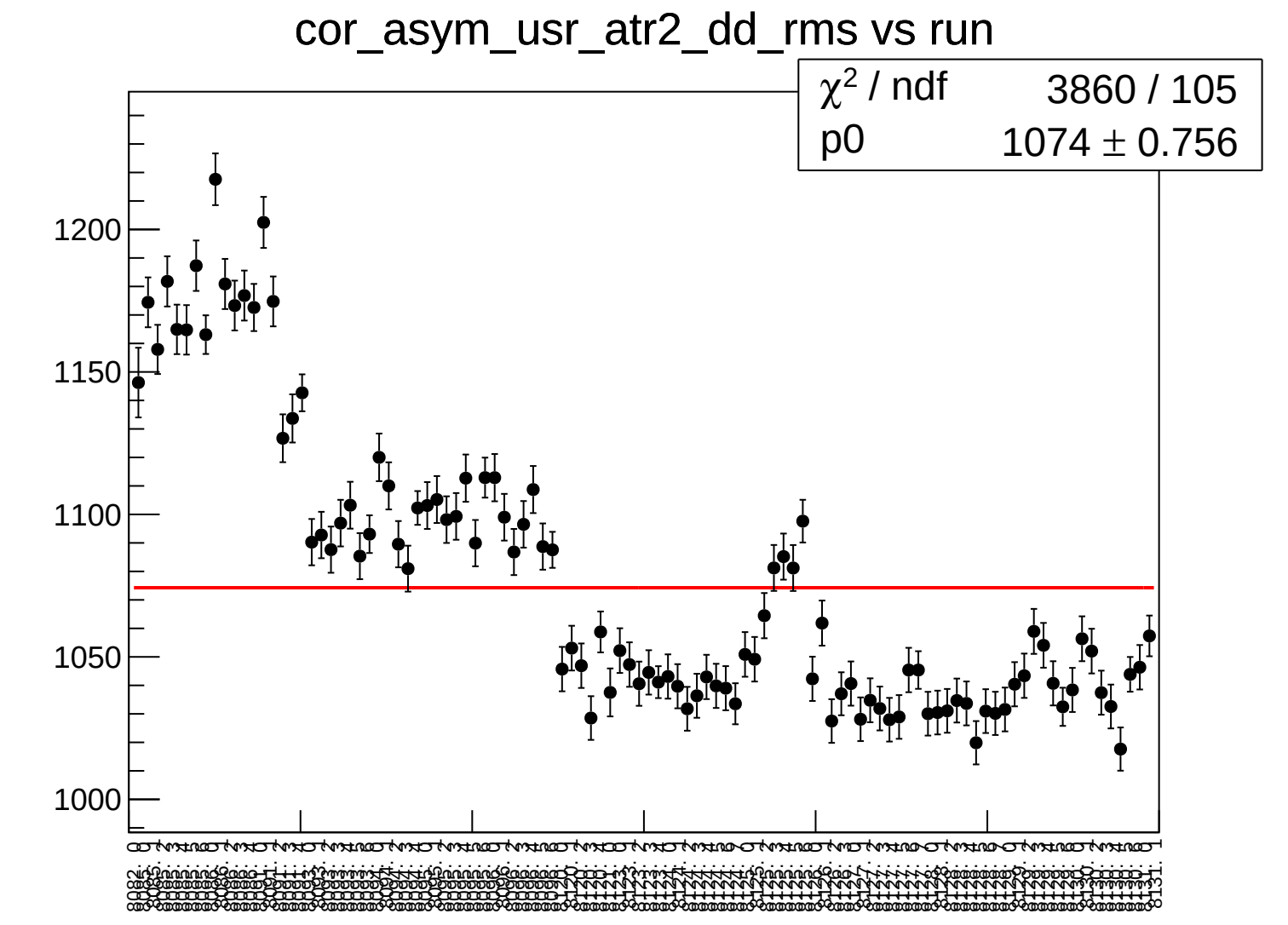

asym_usr_atr2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 88.93 / 105
p0 −7836 ± 4659
150
100
50
0
−50
−100
−150
−200
pull
Entries 106
Mean −189
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

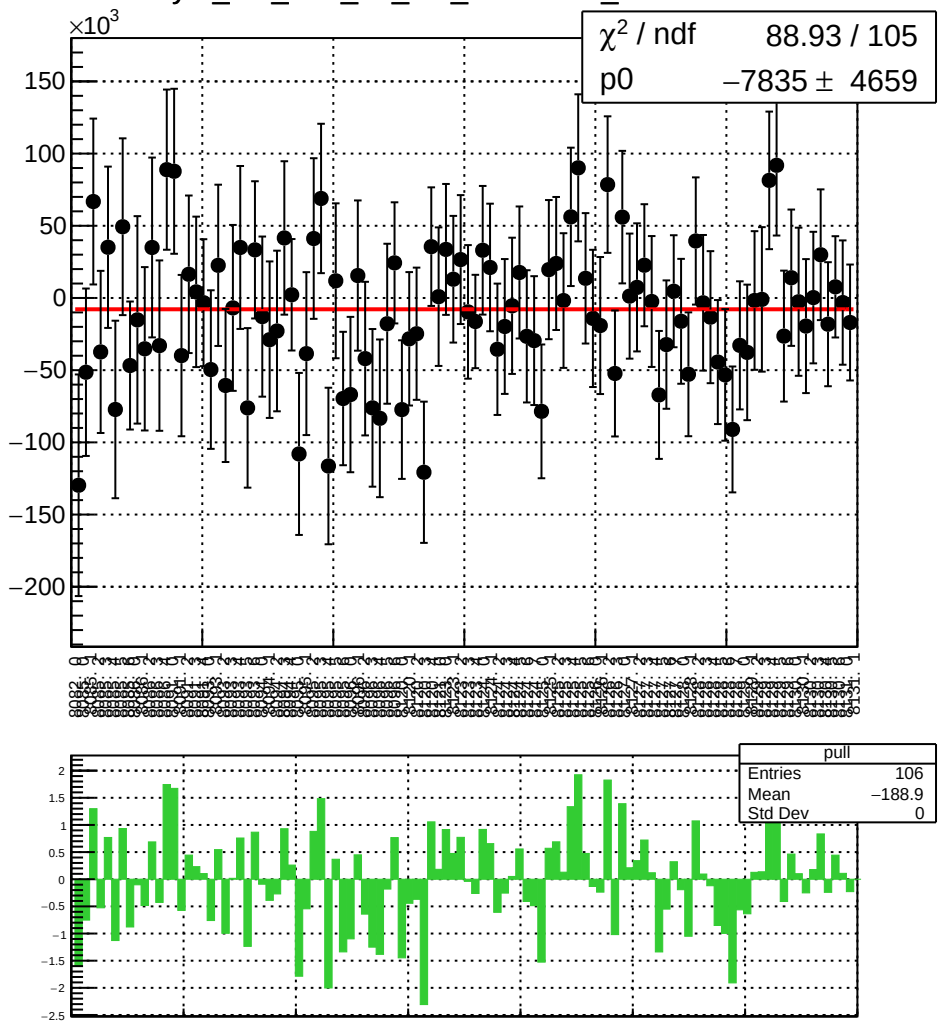

pull1D
Entries 106
Mean −0.00912
Std Dev 0.9159
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

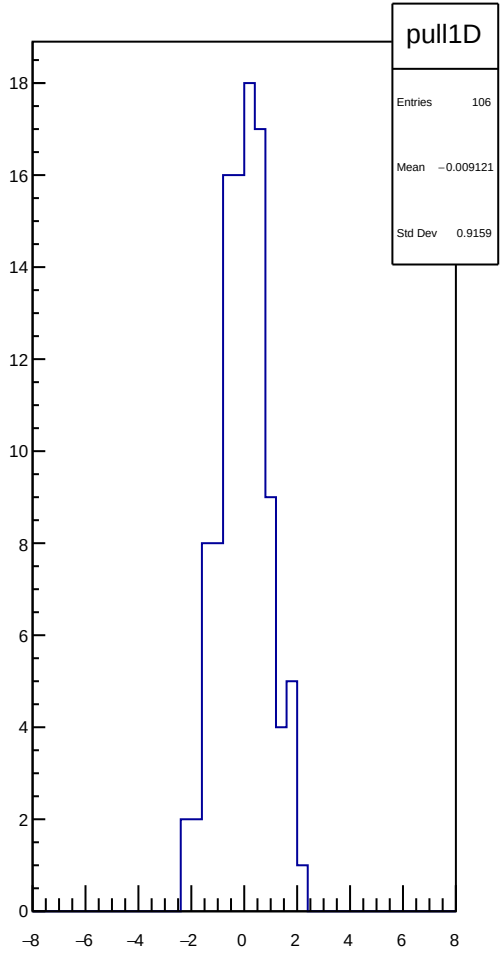

asym_usr_atr2_dd_reg_correction_rms vs run
χ² / ndf 2.288e+04 / 105
p0 4659 ± 3.295
7000
6500
6000
5500
5000
4500
4000

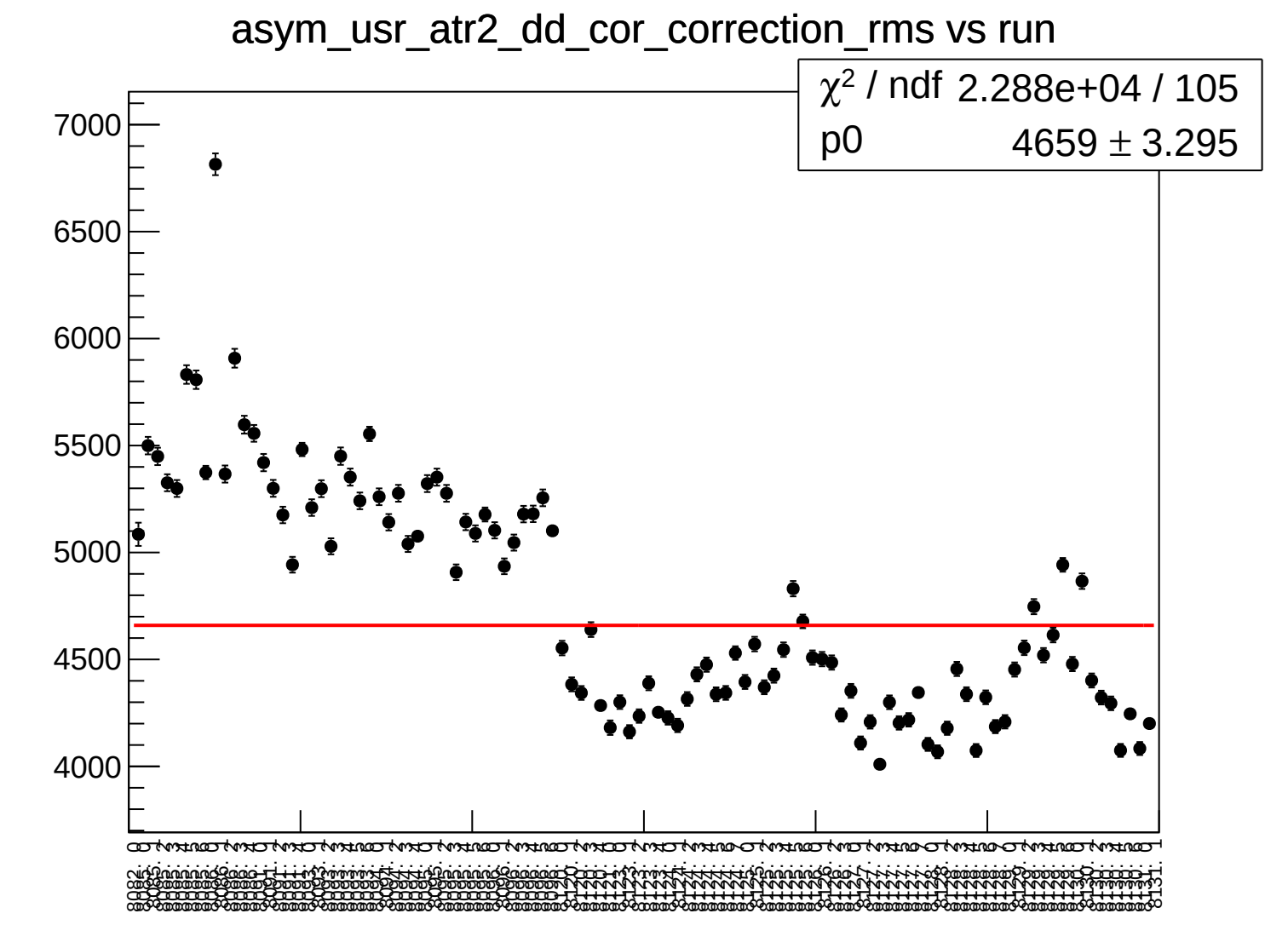

cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 88.06 / 105
p0 −151.6 ± 1069
pull
Entries 106
Mean −419.2
Std Dev 0

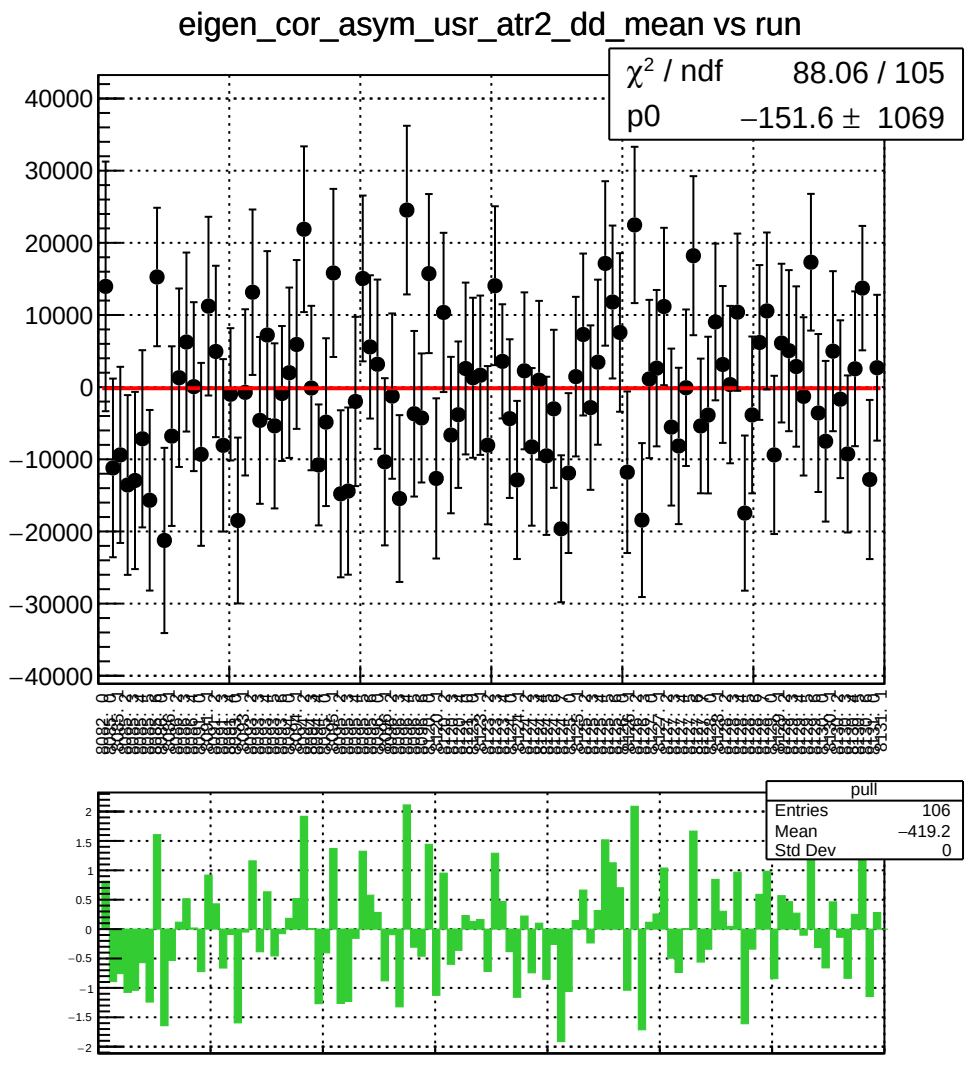

pull1D
Entries 106
Mean −0.007767
Std Dev 0.9114

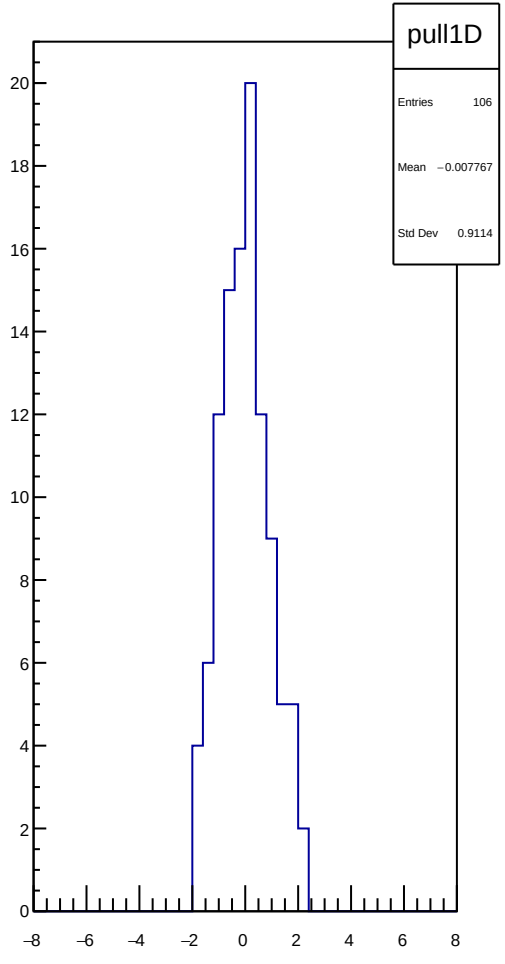

cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 3860 / 105
p0 1074 ± 0.756
1200
1150
1100
1050
1000

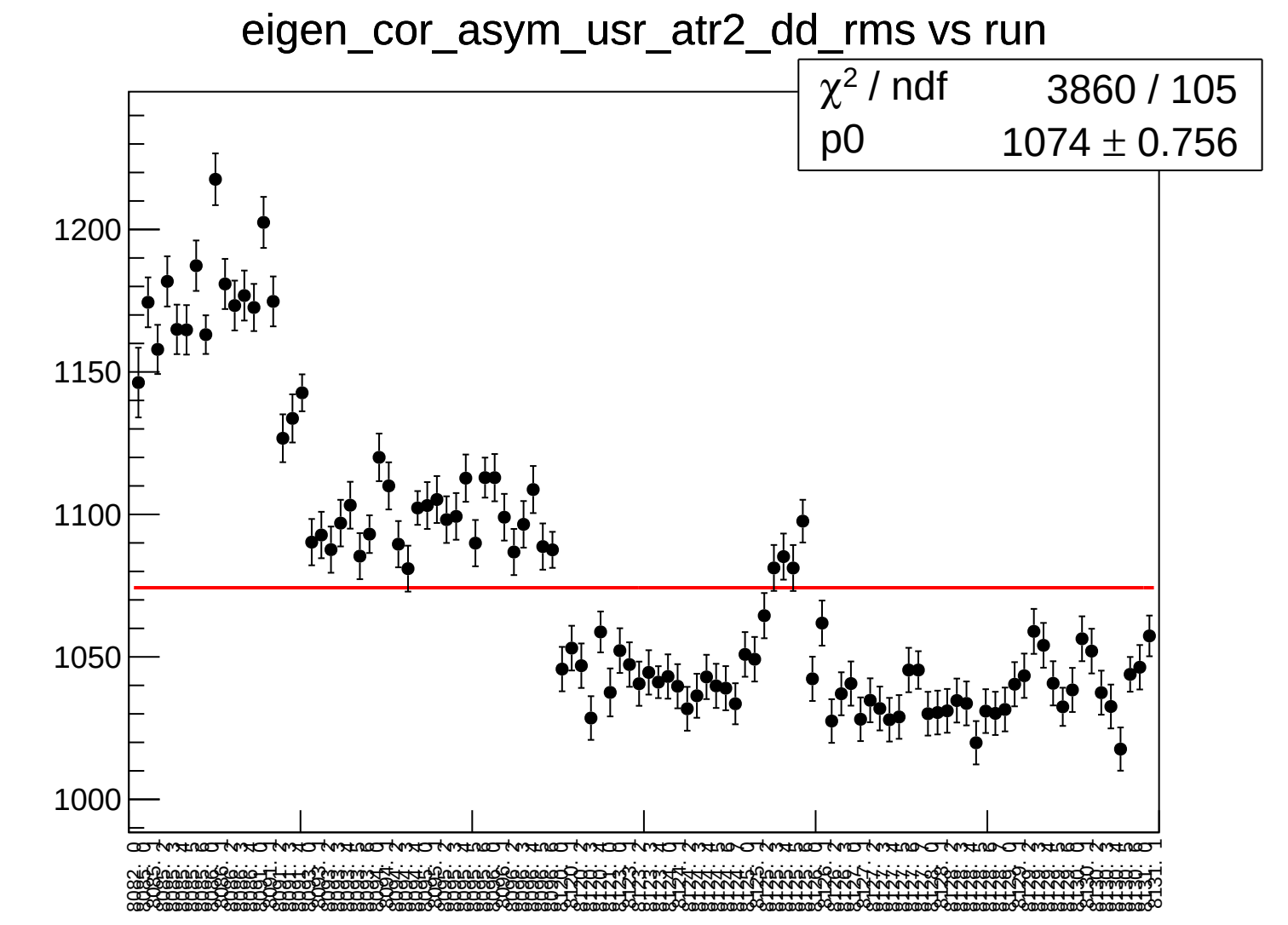

asym_usr_atr2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 88.93 / 105
p0 −7835 ± 4659
150
100
50
0
−50
−100
−150
−200
pull
Entries 106
Mean −188.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

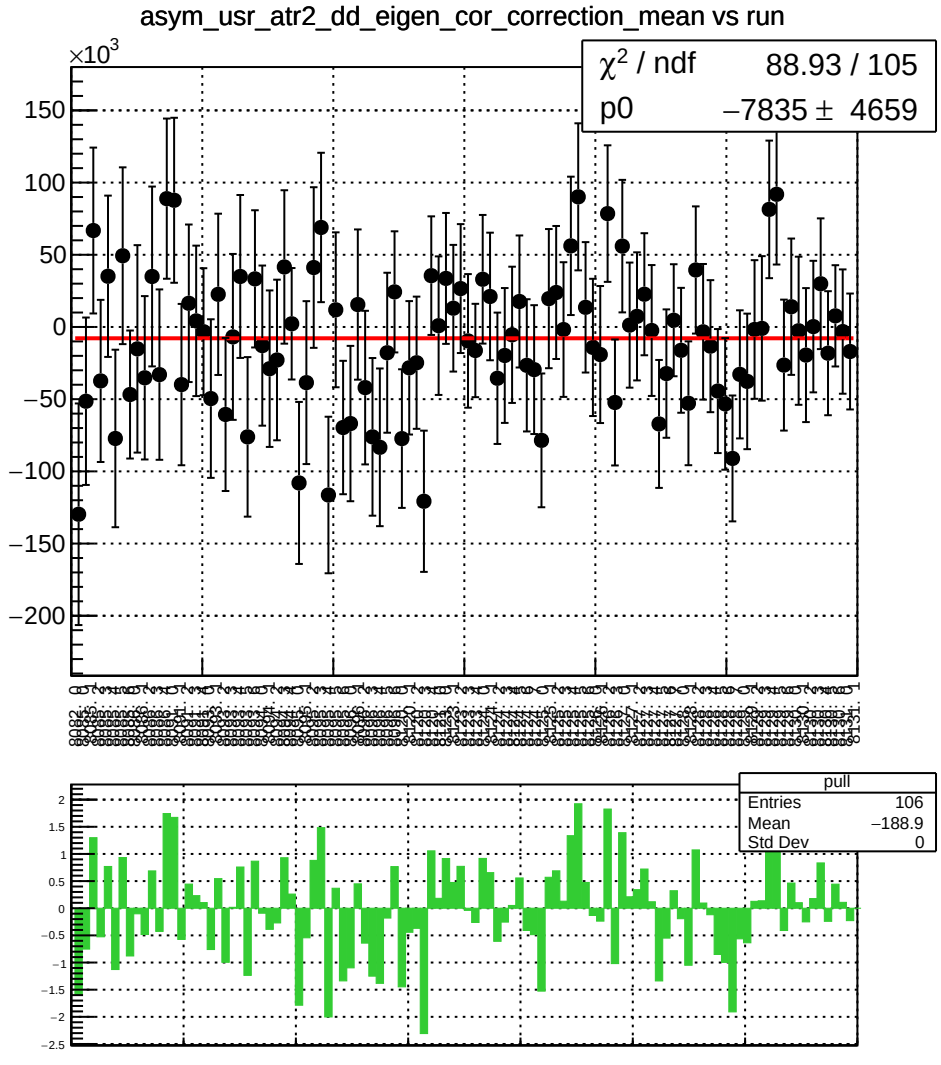

pull1D
Entries 106
Mean −0.009121
Std Dev 0.9159
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

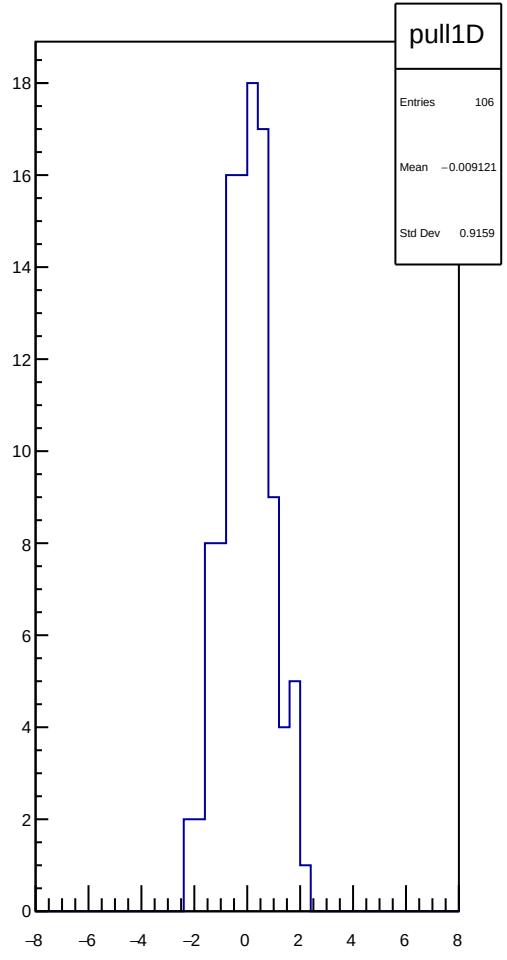

asym_usr_atr2_dd_cor_correction_rms vs run
χ² / ndf 2.288e+04 / 105
p0 4659 ± 3.295
7000
6500
6000
5500
5000
4500
4000

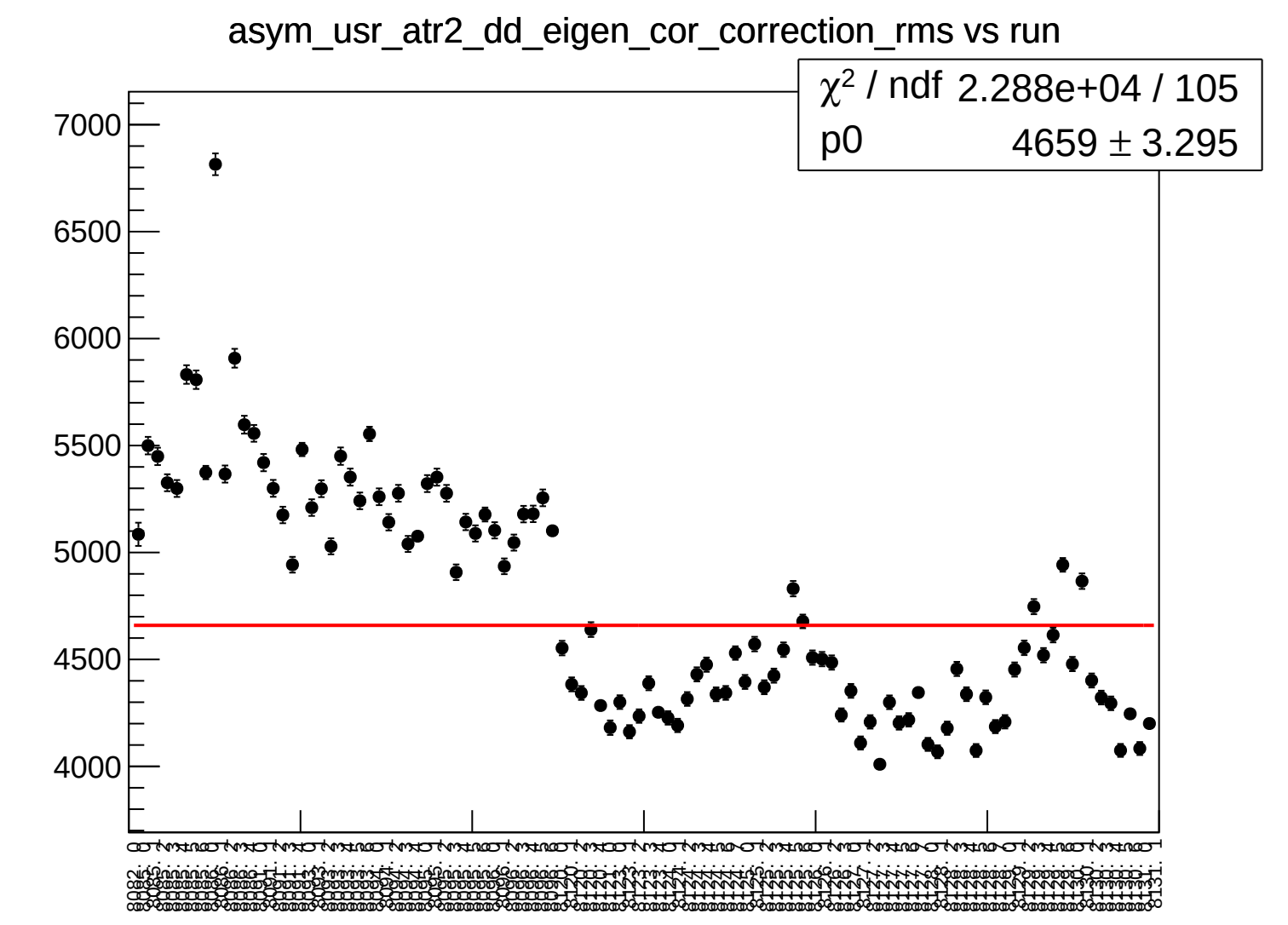

eigen_cor_asym_usr_atr2_dd_mean vs run
χ² / ndf 88.06 / 105
p0 −151.6 ± 1069
pull
Entries 106
Mean −419.2
Std Dev 0

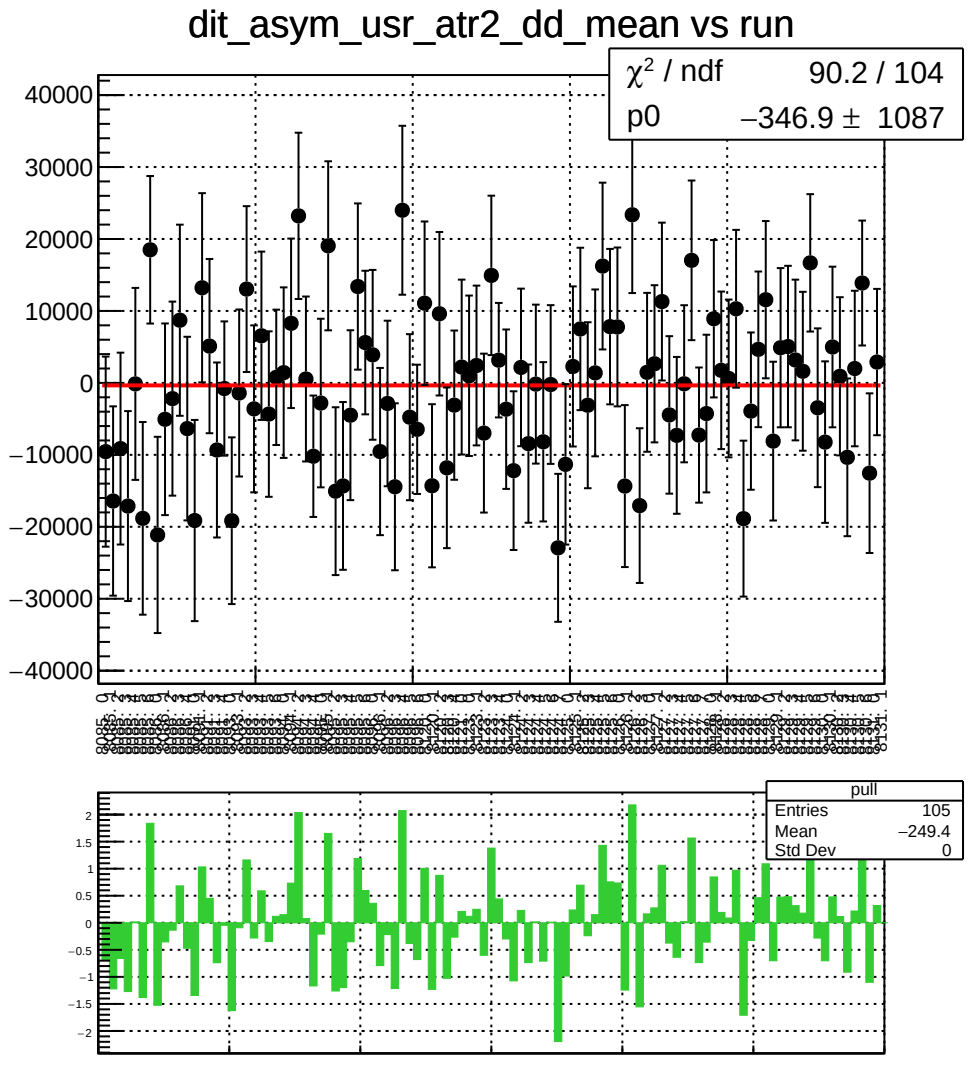

pull1D
Entries 106
Mean −0.007767
Std Dev 0.9114

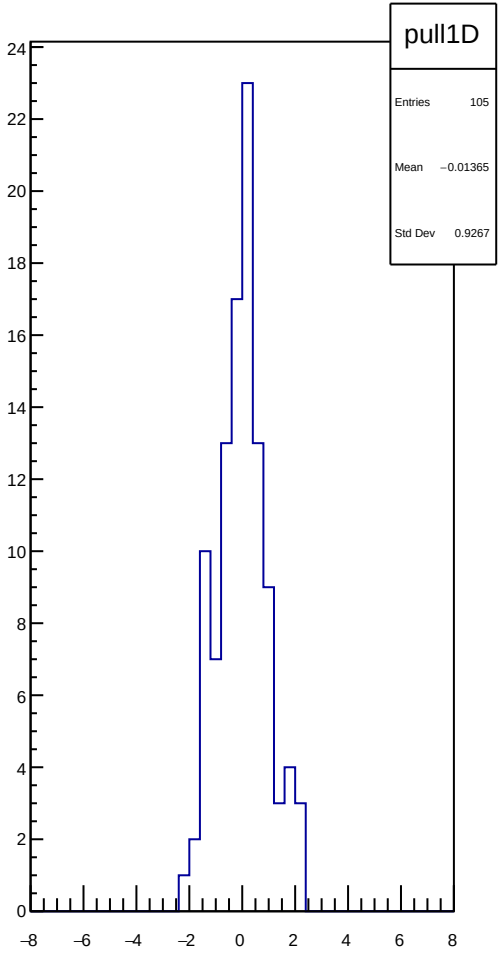

eigen_cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 3860 / 105
p0 1074 ± 0.756
1200
1150
1100
1050
1000

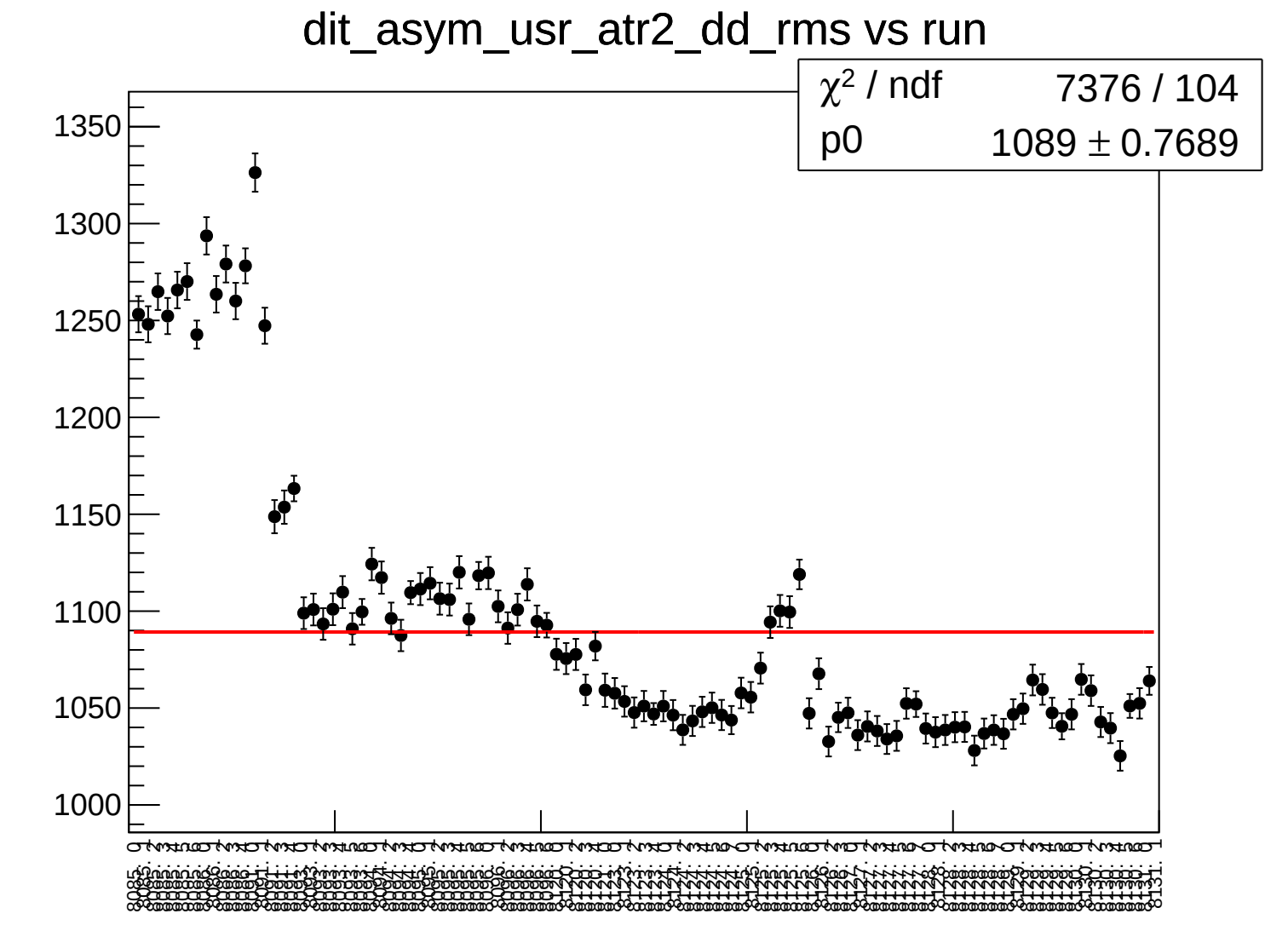

asym_usr_atr2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 88.93 / 105
p0 −7835 ± 4659
150
100
50
0
−50
−100
−150
−200
pull
Entries 106
Mean −188.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

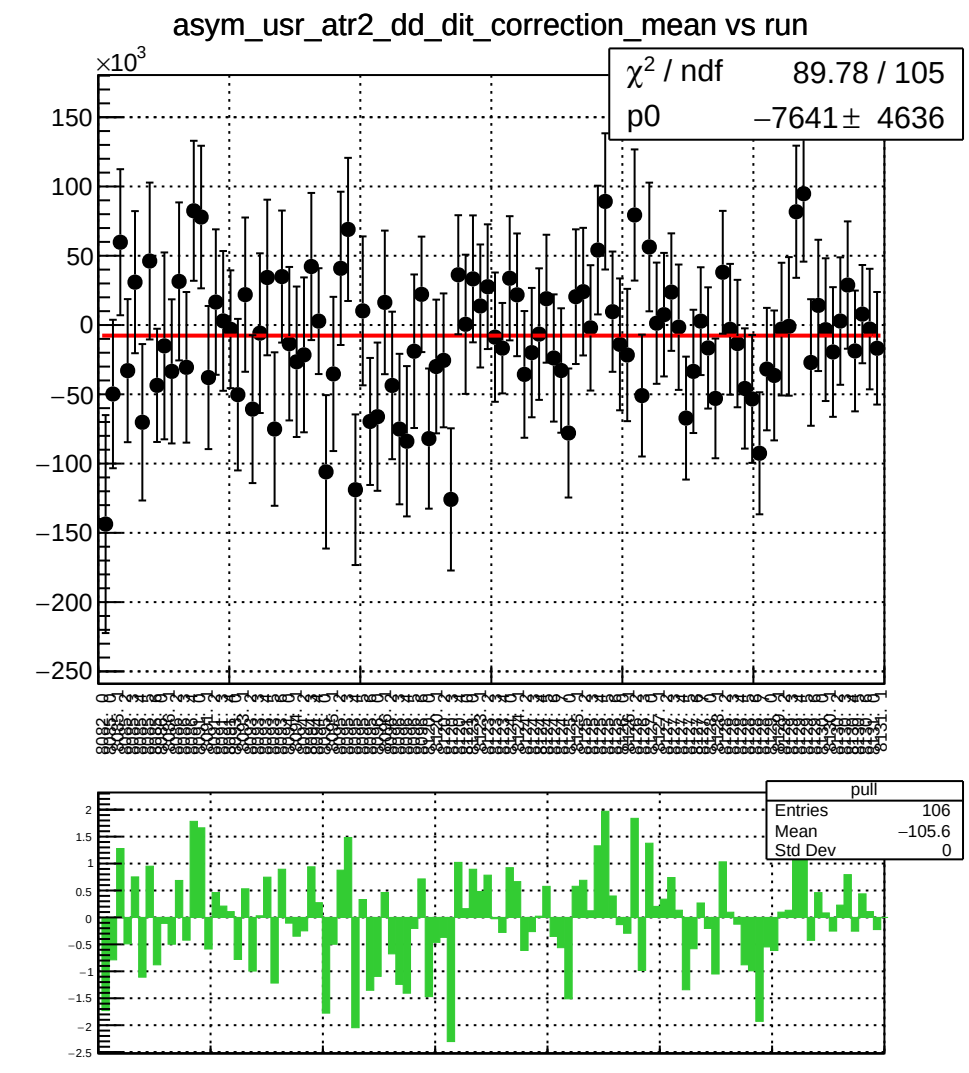

pull1D
Entries 106
Mean −0.009121
Std Dev 0.9159
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

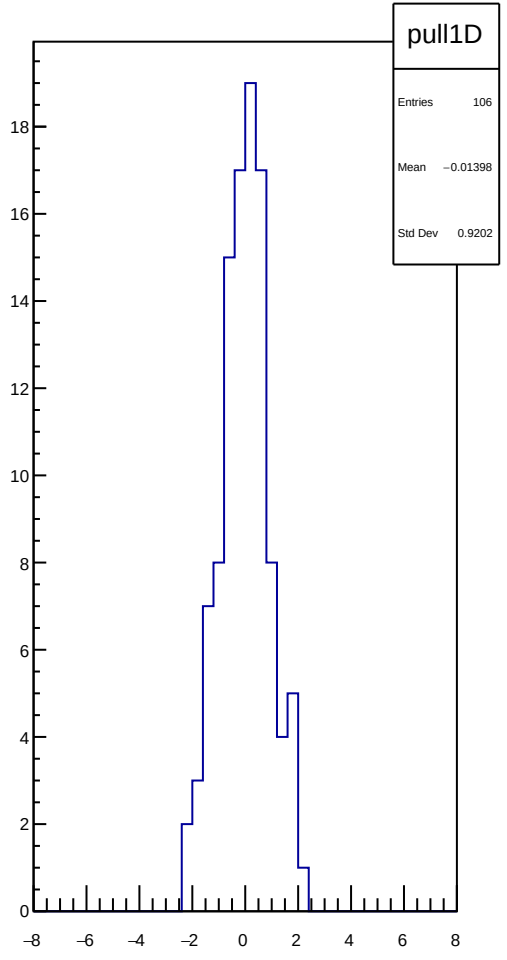

asym_usr_atr2_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.288e+04 / 105
p0 4659 ± 3.295
7000
6500
6000
5500
5000
4500
4000

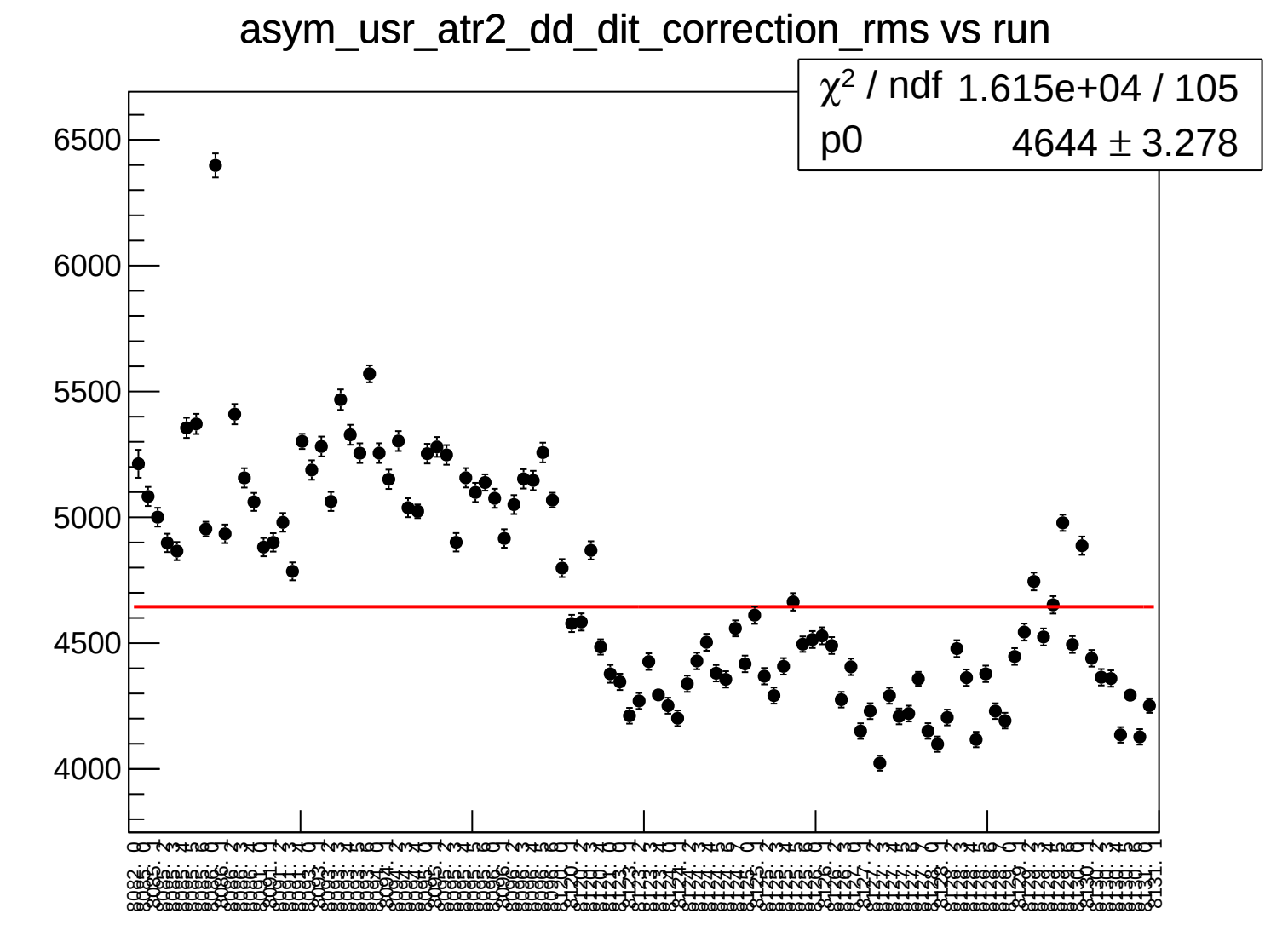

dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 90.2 / 104
p0 −346.9 ± 1087
pull
Entries 105
Mean −249.4
Std Dev 0

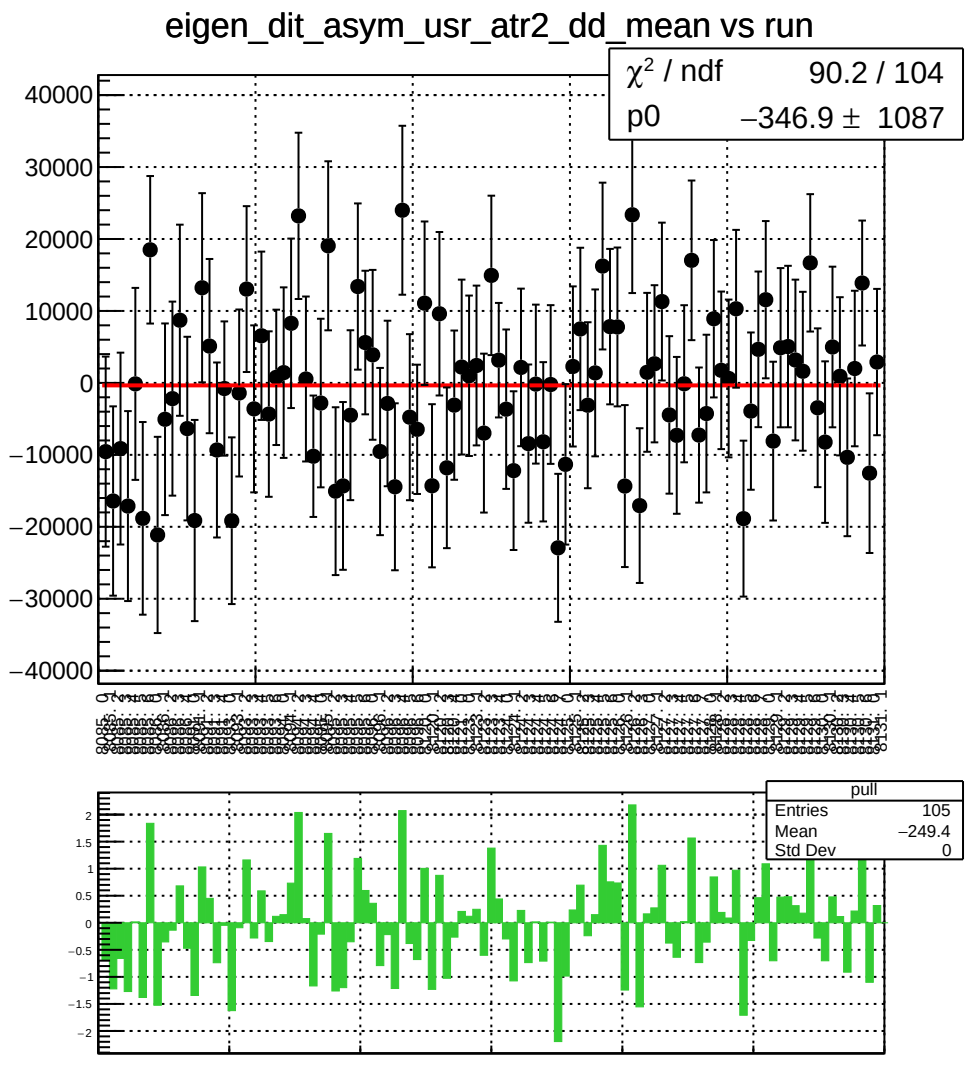

pull1D
Entries 105
Mean −0.01365
Std Dev 0.9267

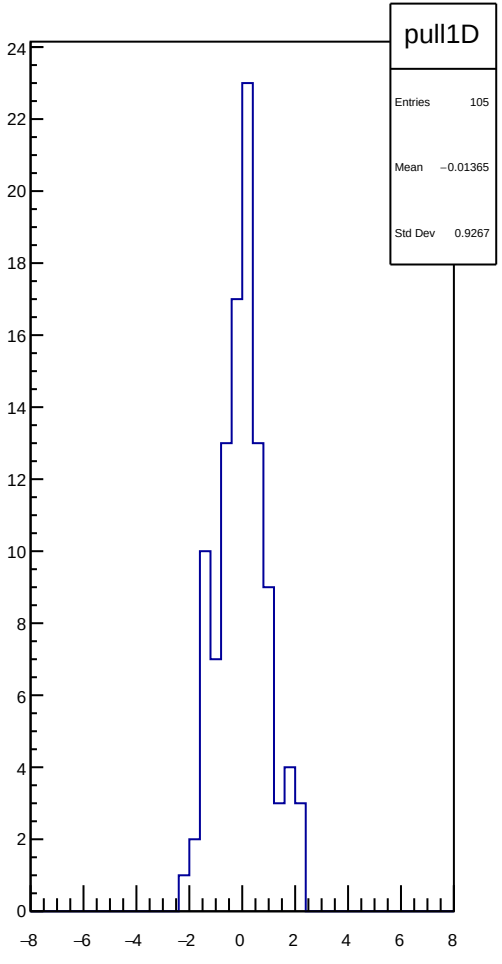

dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 7376 / 104
p0 1089 ± 0.7689
1350
1300
1250
1200
1150
1100
1050
1000

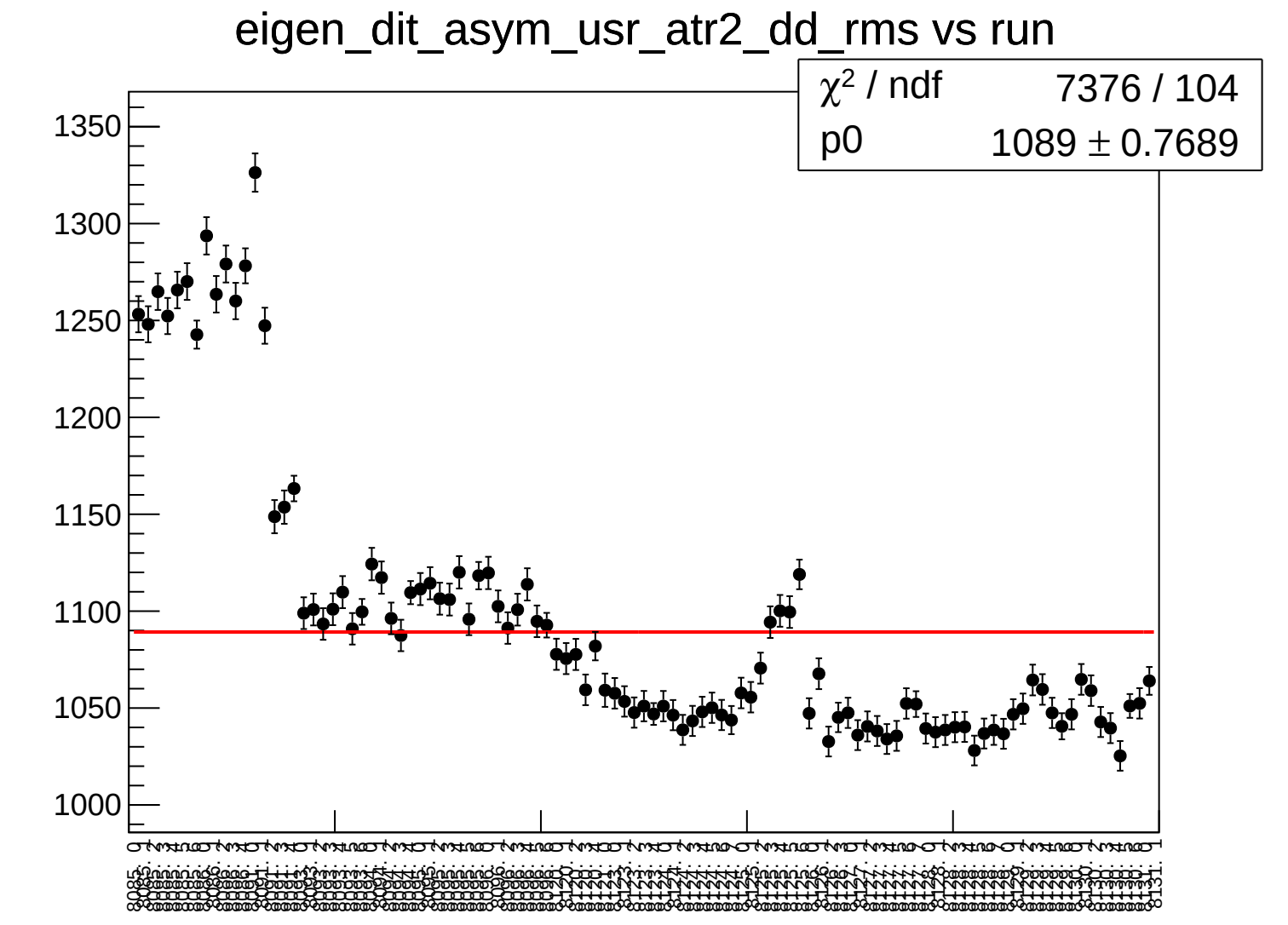

asym_usr_atr2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 89.78 / 105
p0 −7641 ± 4636
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 106
Mean −105.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

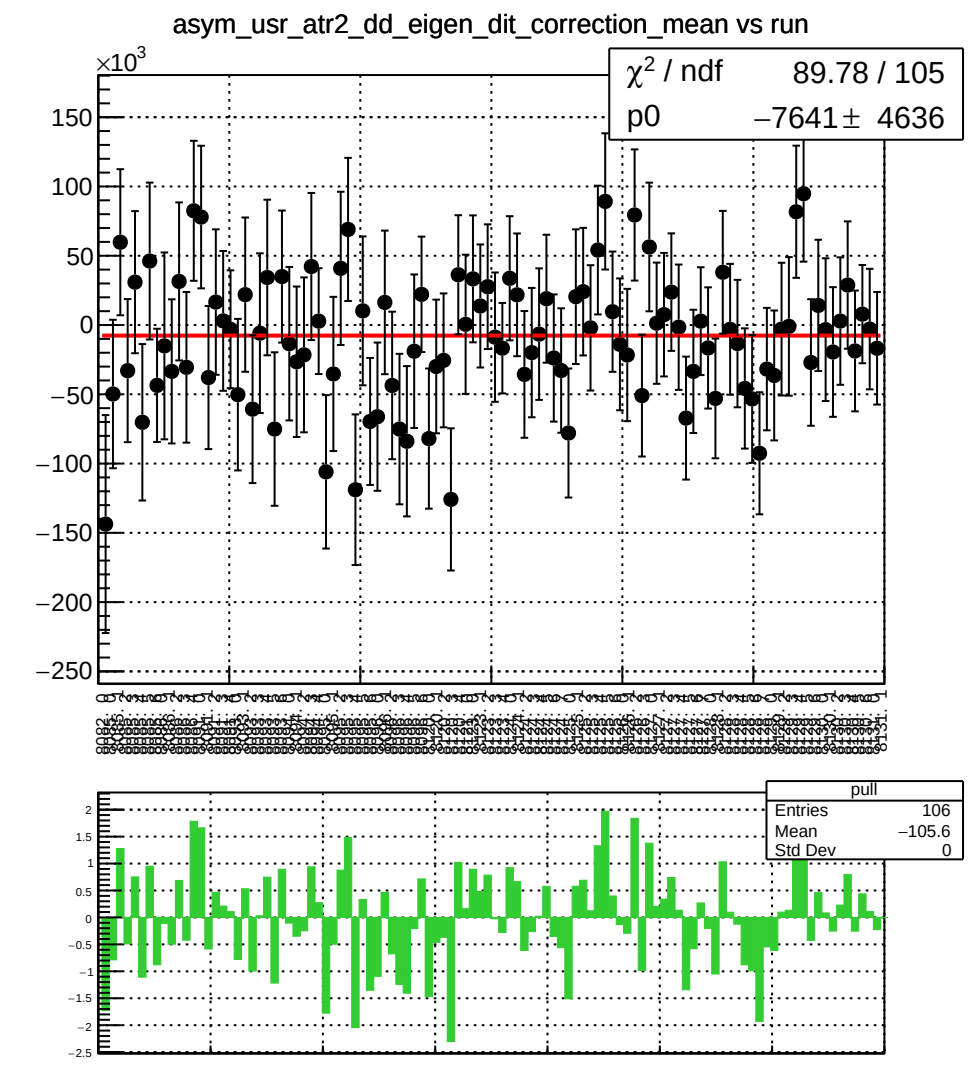

pull1D
Entries 106
Mean −0.01398
Std Dev 0.9202
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

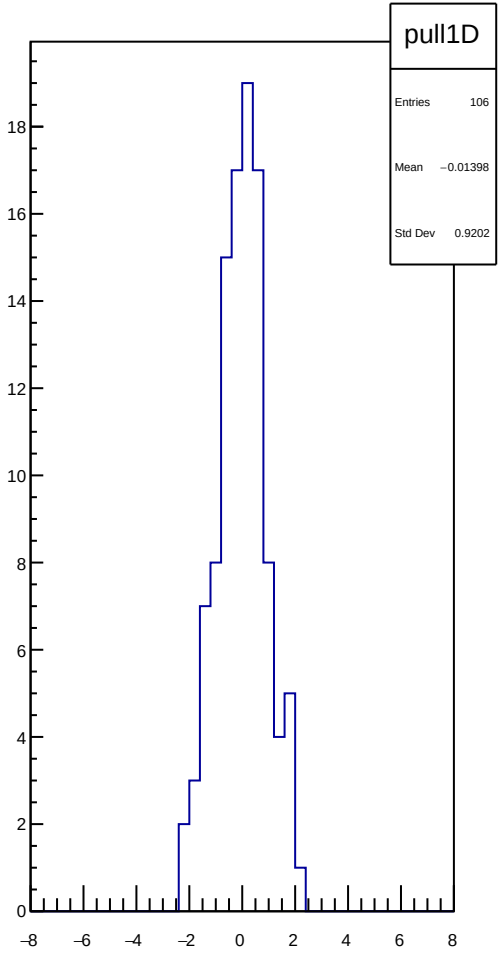

asym_usr_atr2_dd_dit_correction_rms vs run
χ² / ndf 1.615e+04 / 105
p0 4644 ± 3.278
6500
6000
5500
5000
4500
4000

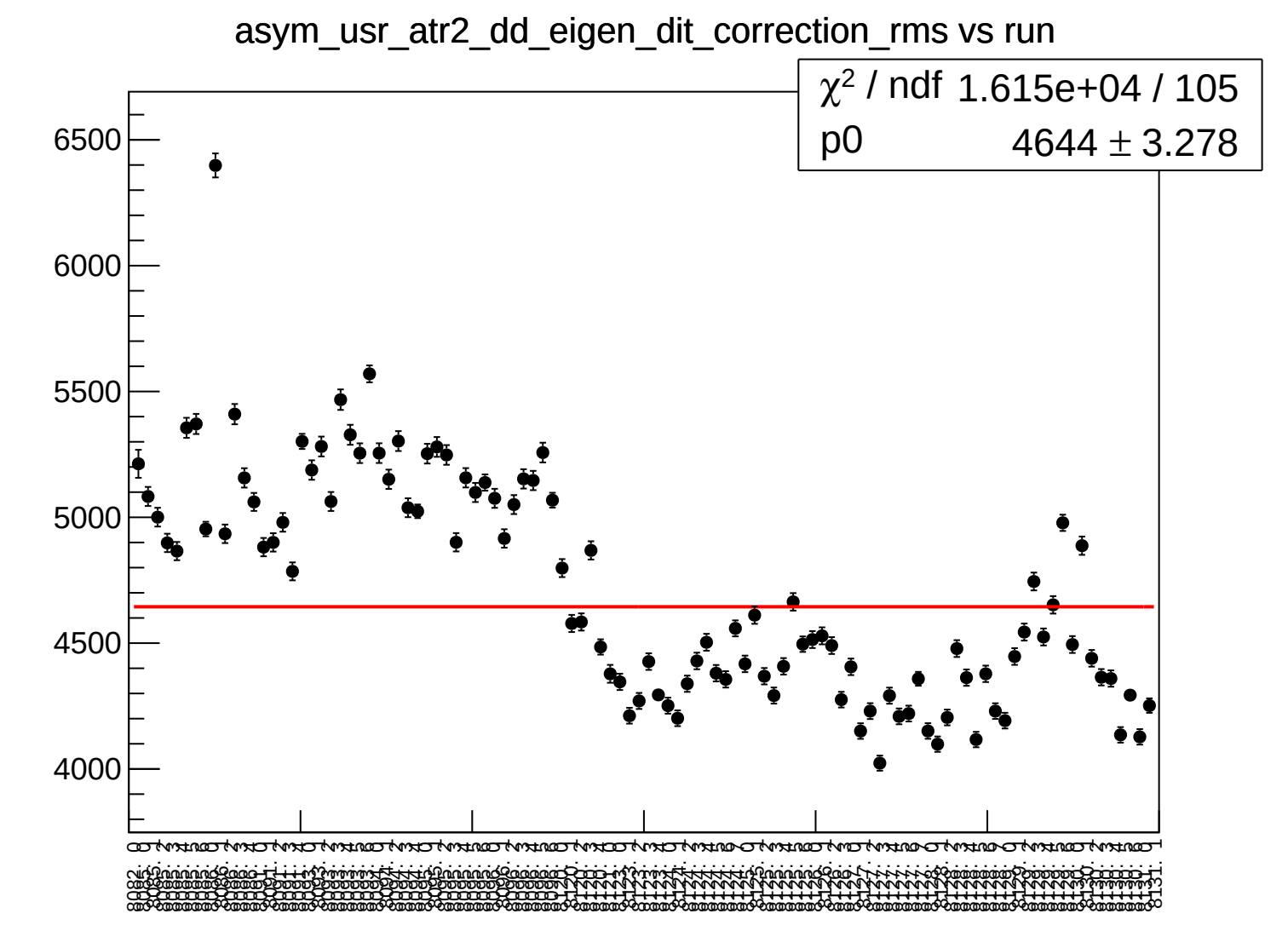

eigen_dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 90.2 / 104
p0 −346.9 ± 1087
pull
Entries 105
Mean −249.4
Std Dev 0

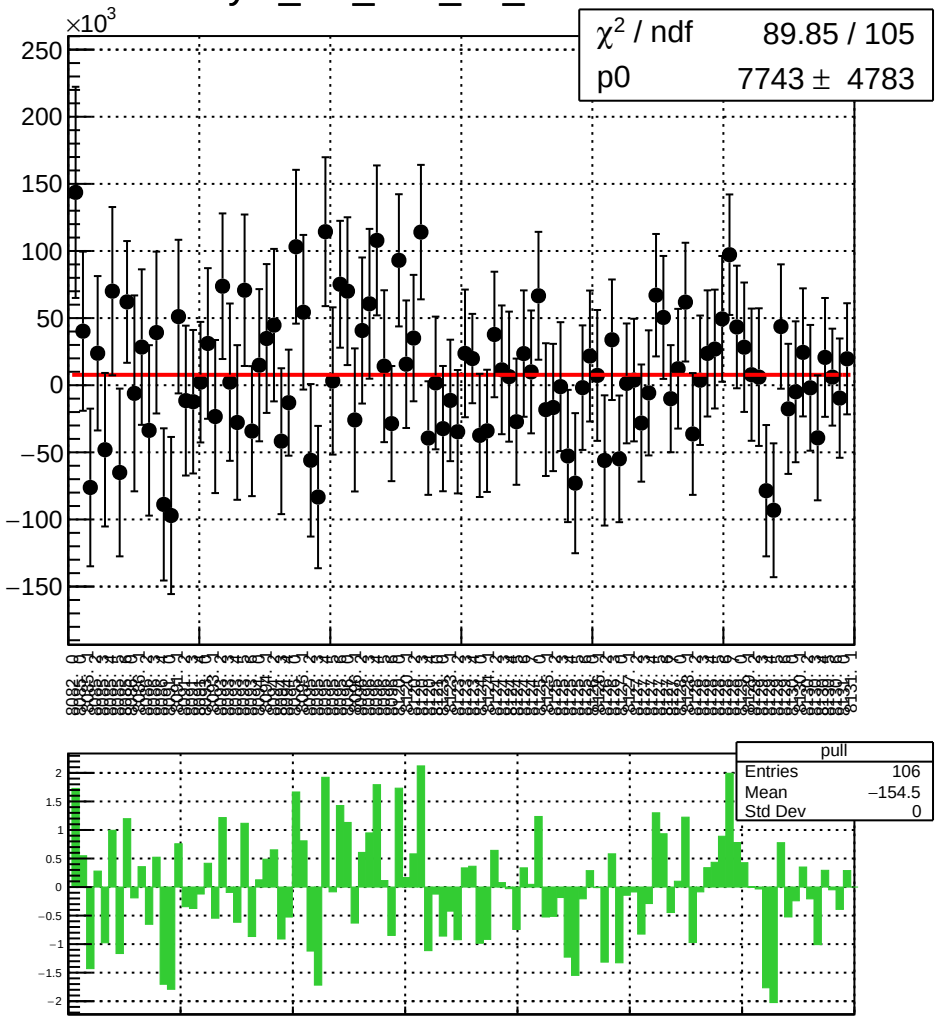

pull1D
Entries 105
Mean −0.01365
Std Dev 0.9267

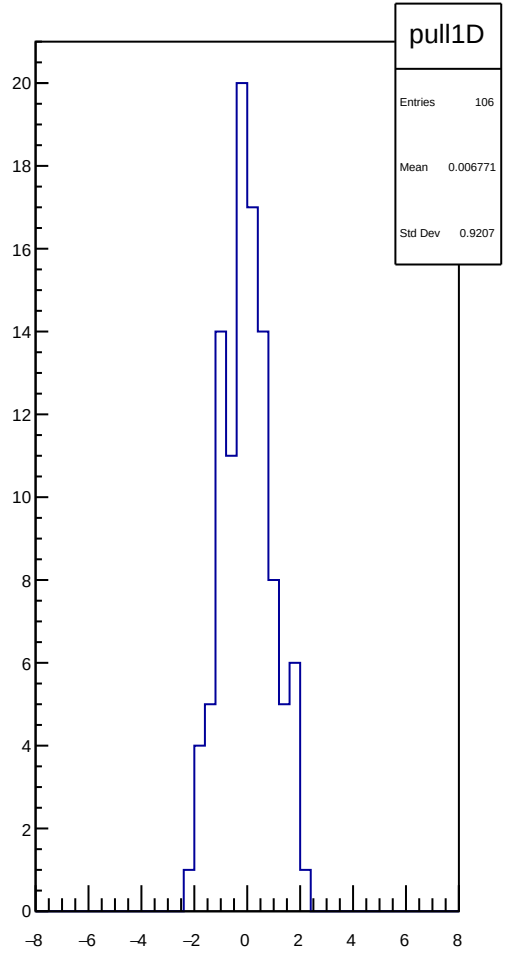

eigen_dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 7376 / 104
p0 1089 ± 0.7689
1350
1300
1250
1200
1150
1100
1050
1000

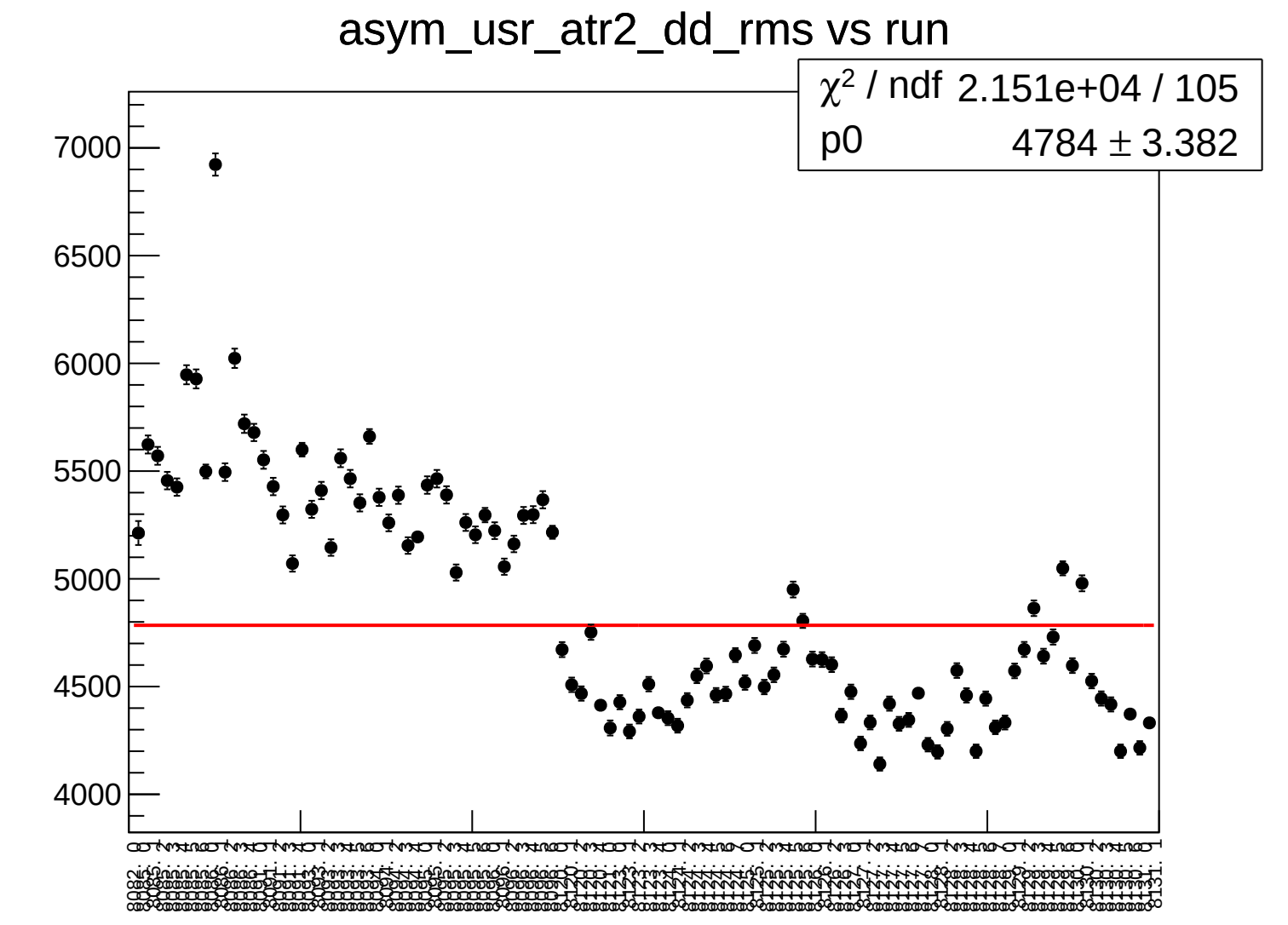

asym_usr_atr2_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 89.78 / 105
p0 −7641 ± 4636
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 106
Mean −105.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

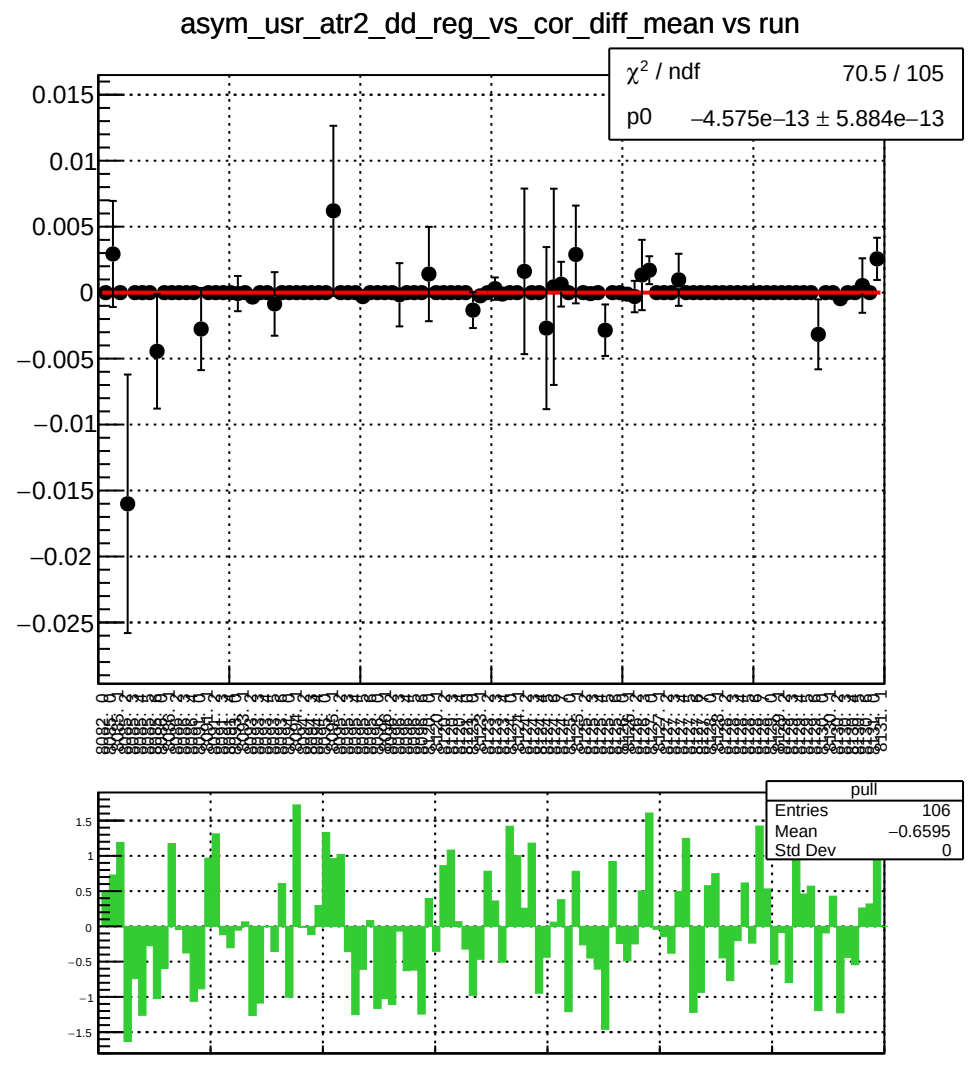

pull1D
Entries 106
Mean −0.01398
Std Dev 0.9202
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

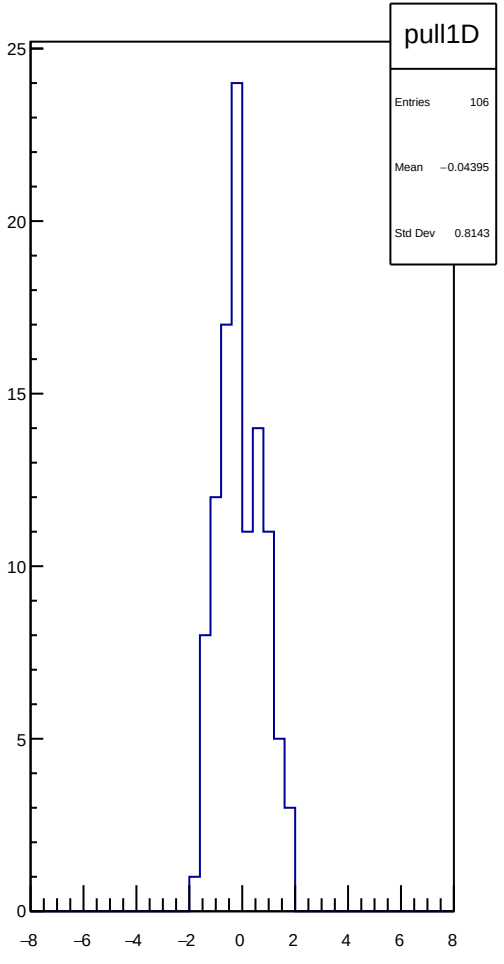

asym_usr_atr2_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.615e+04 / 105
p0 4644 ± 3.278
6500
6000
5500
5000
4500
4000

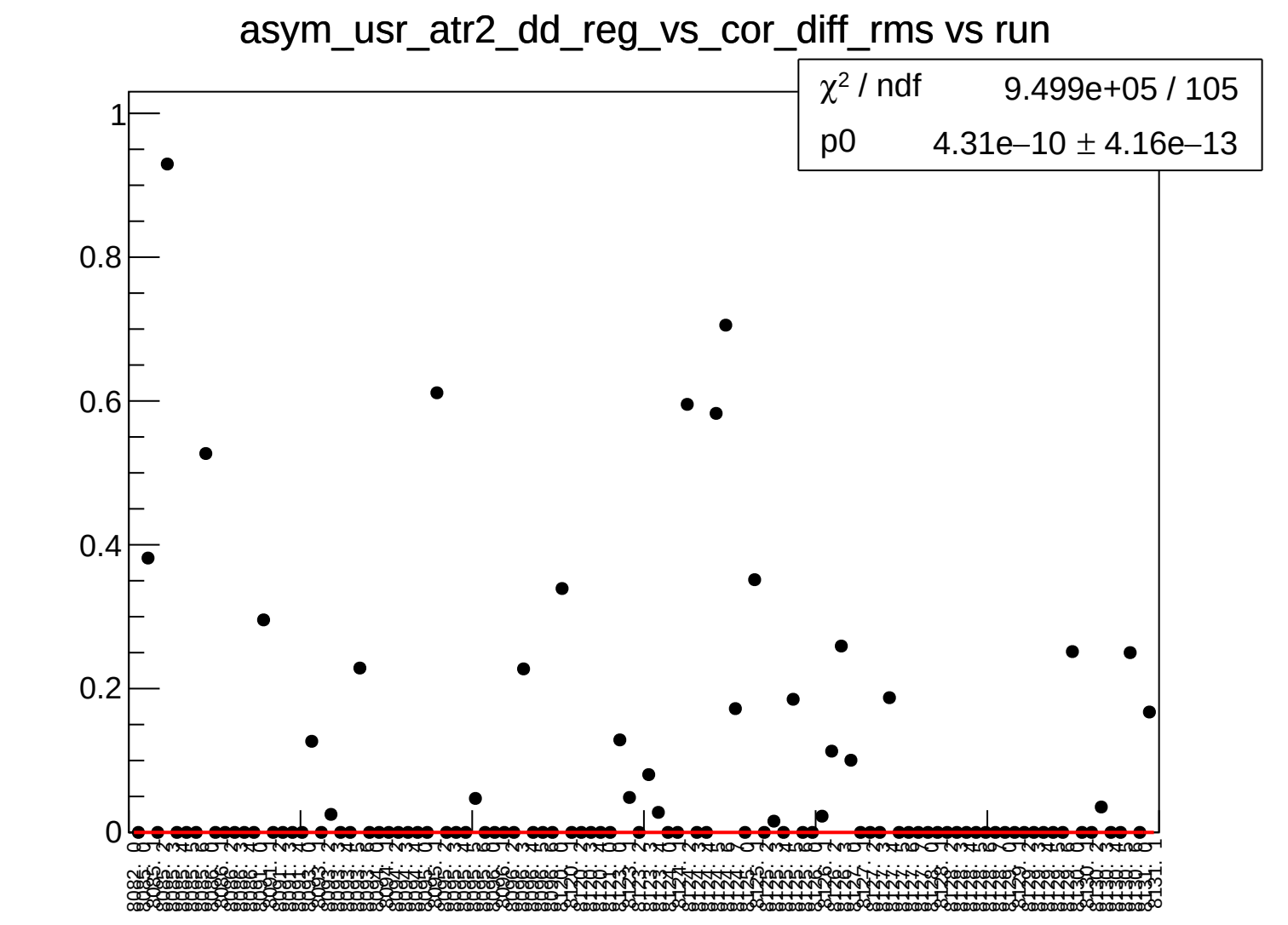

asym_usr_atr2_dd_mean vs run
×10^3
χ² / ndf 89.85 / 105
p0 7743 ± 4783
pull
Entries 106
Mean −154.5
Std Dev 0

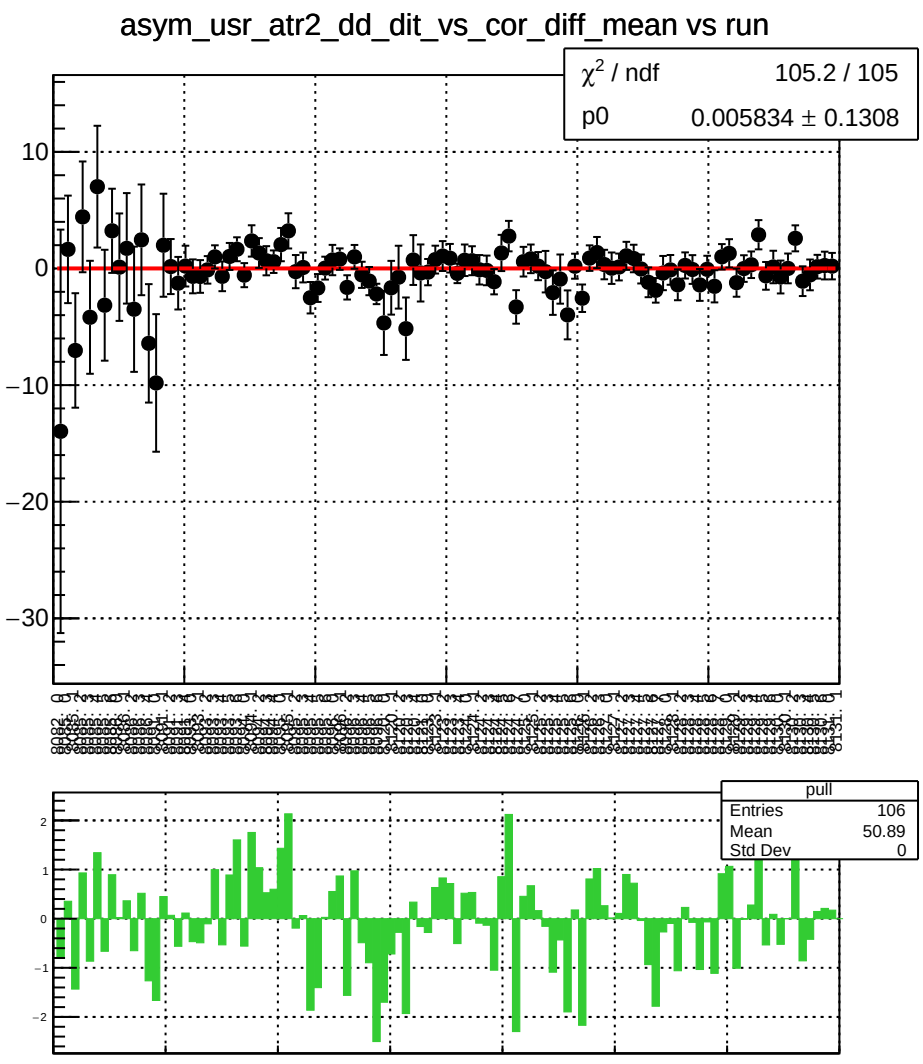

pull1D
Entries 106
Mean 0.006771
Std Dev 0.9207

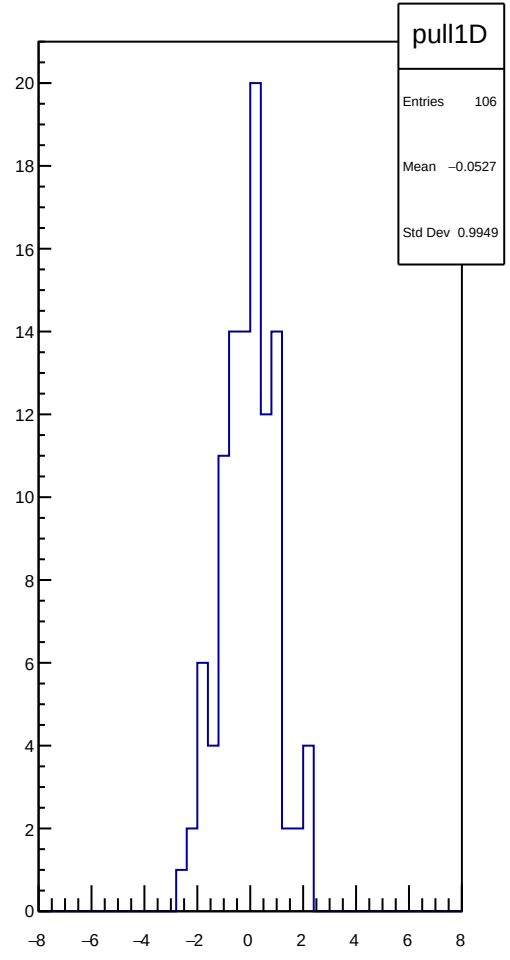

asym_usr_atr2_dd_rms vs run
χ² / ndf 2.151e+04 / 105
p0 4784 ± 3.382
7000
6500
6000
5500
5000
4500
4000

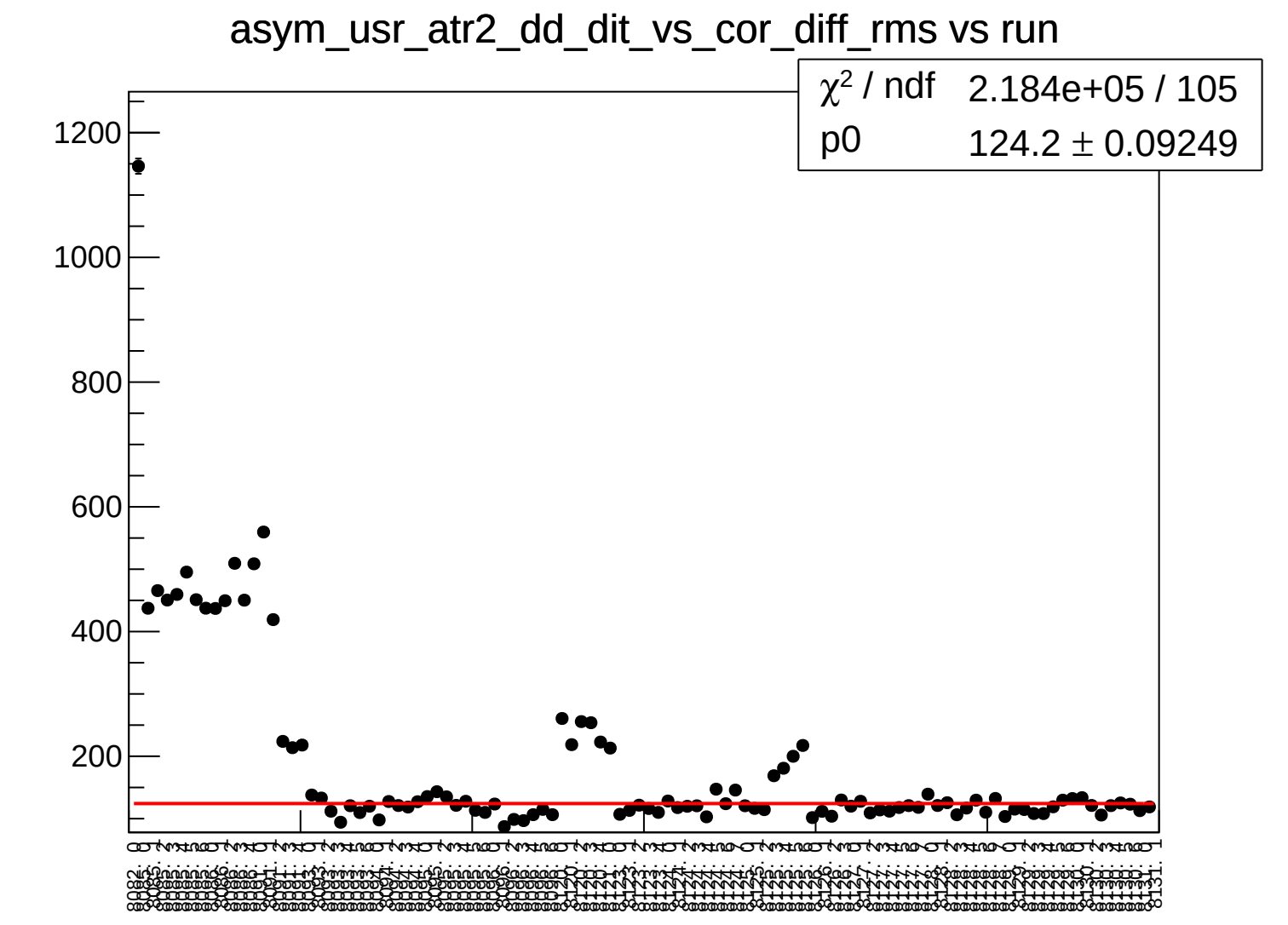

asym_usr_atr2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 70.5 / 105
p0 −4.575e−13 ± 5.884e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
−0.025
pull
Entries 106
Mean −0.6595
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

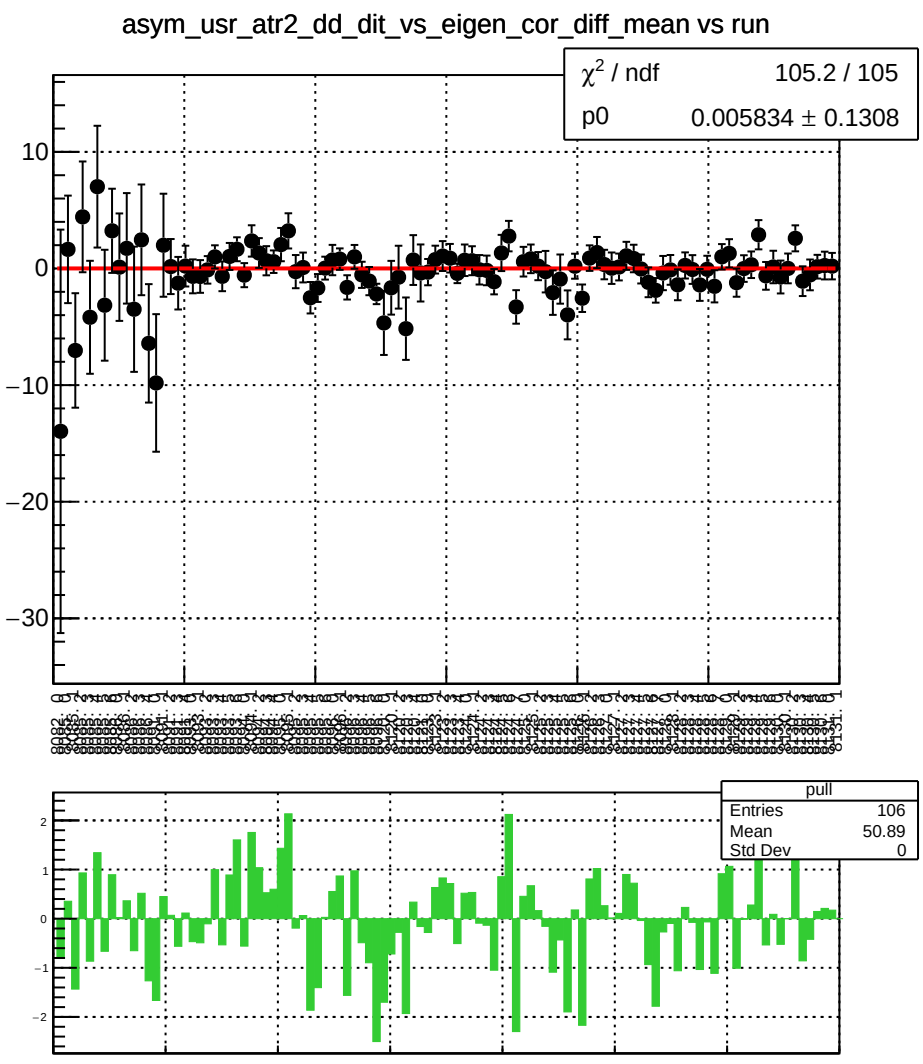

pull1D
Entries 106
Mean −0.04395
Std Dev 0.8143
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

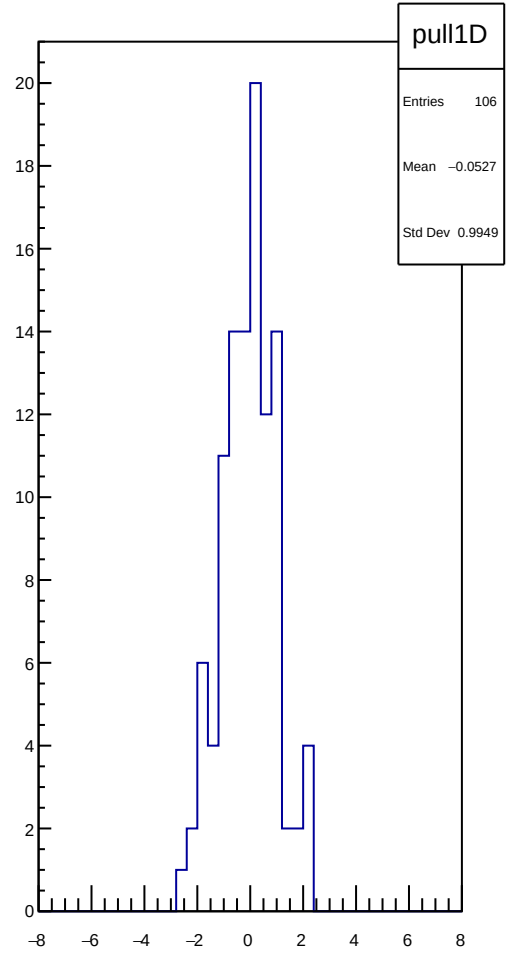

asym_usr_atr2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.499e+05 / 105
p0 4.31e−10 ± 4.16e−13
1
0.8
0.6
0.4
0.2
0

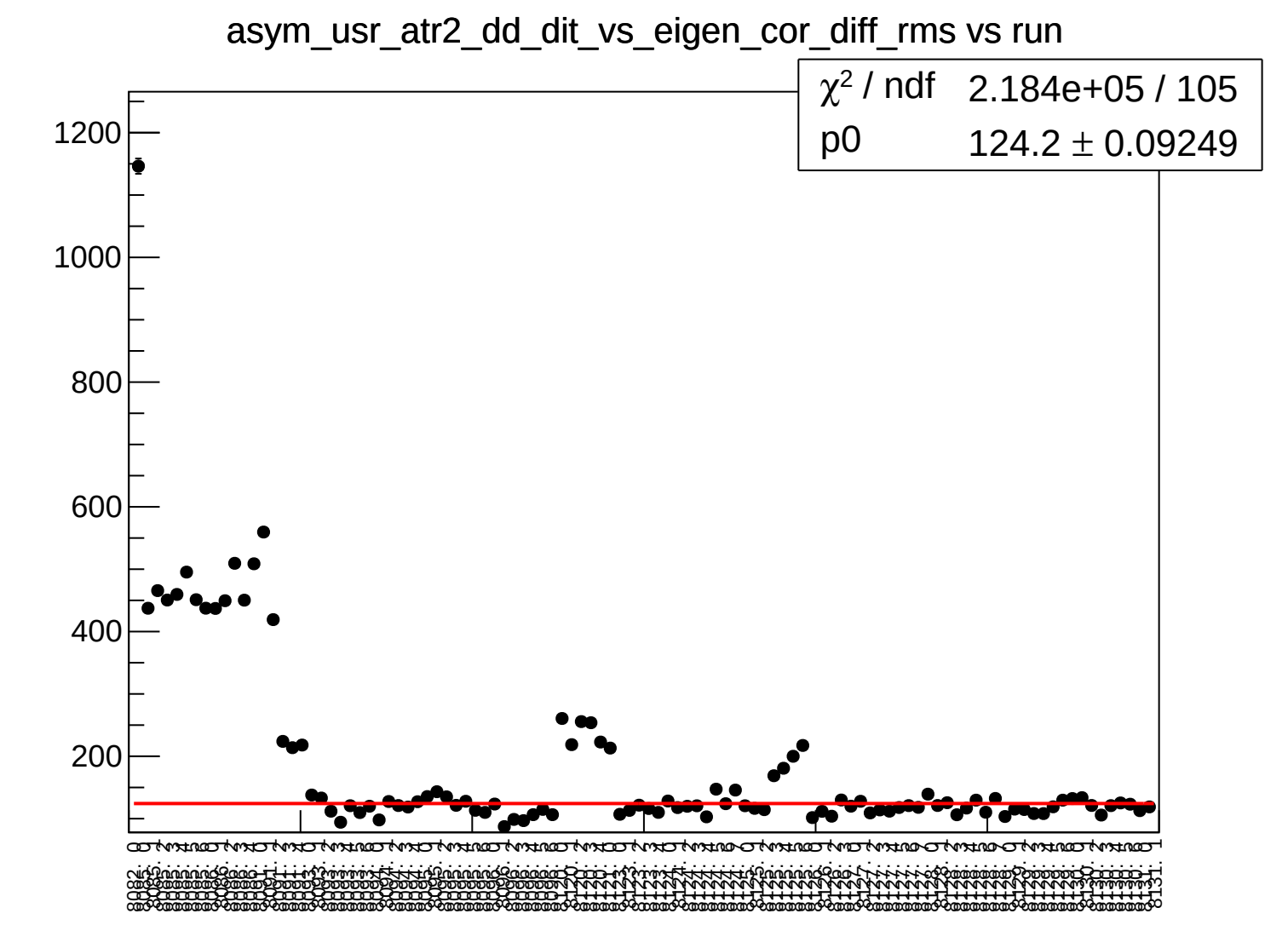

asym_usr_atr2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 105.2 / 105
p0 0.005834 ± 0.1308
10
0
−10
−20
−30
pull
Entries 106
Mean 50.89
Std Dev 0
2
1
0
−1
−2

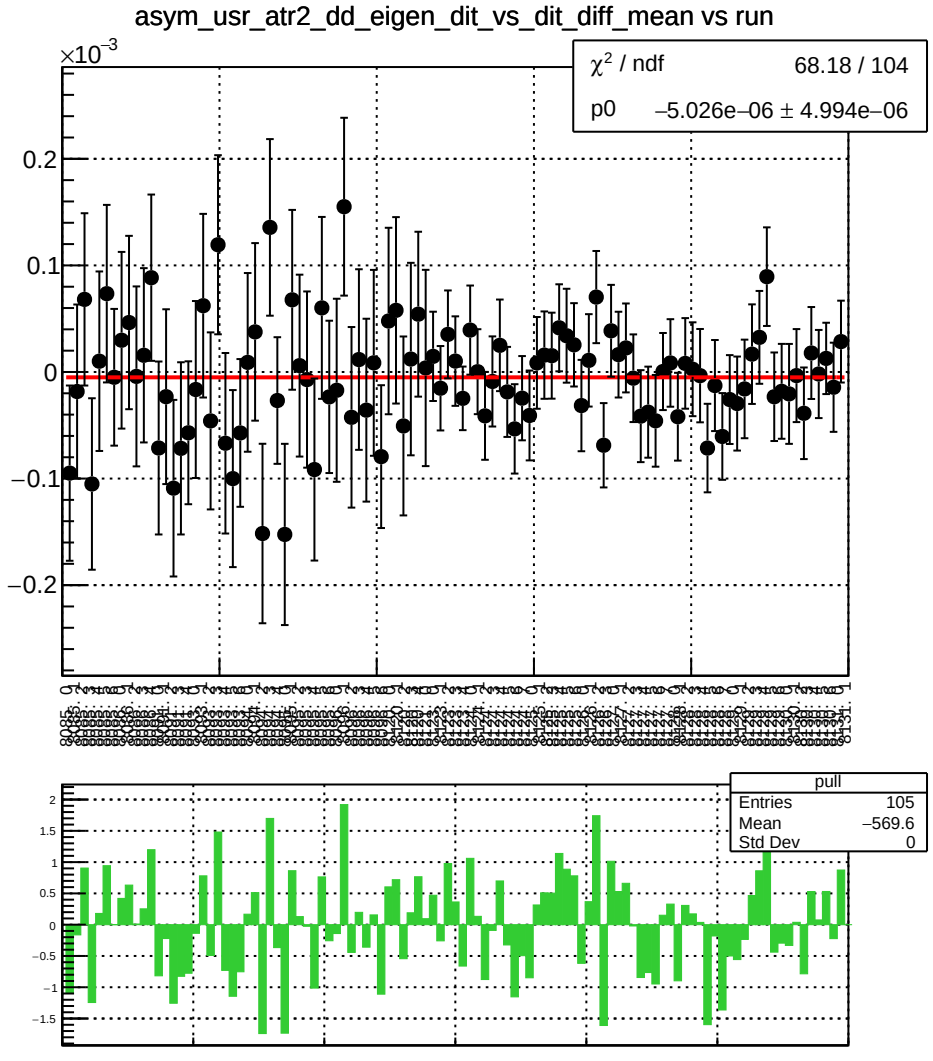

pull1D
Entries 106
Mean −0.0527
Std Dev 0.9949
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

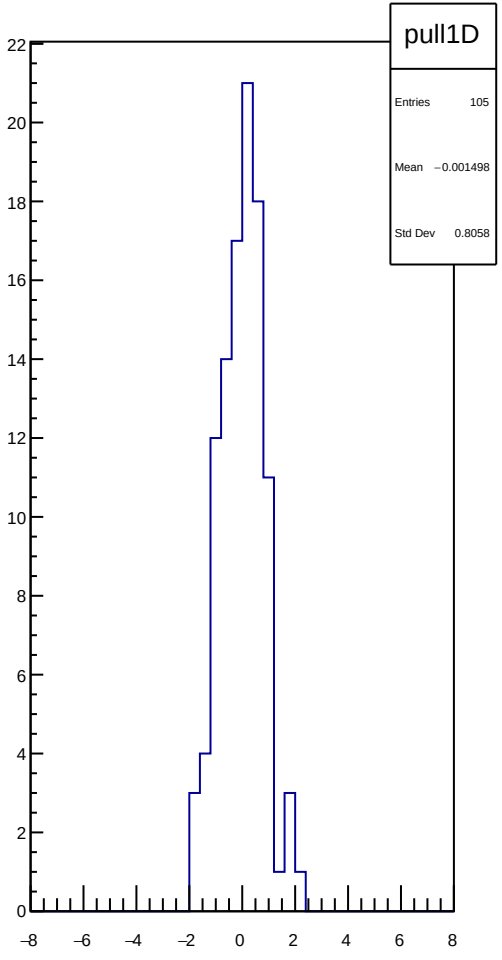

asym_usr_atr2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.184e+05 / 105
p0 124.2 ± 0.09249
1200
1000
800
600
400
200

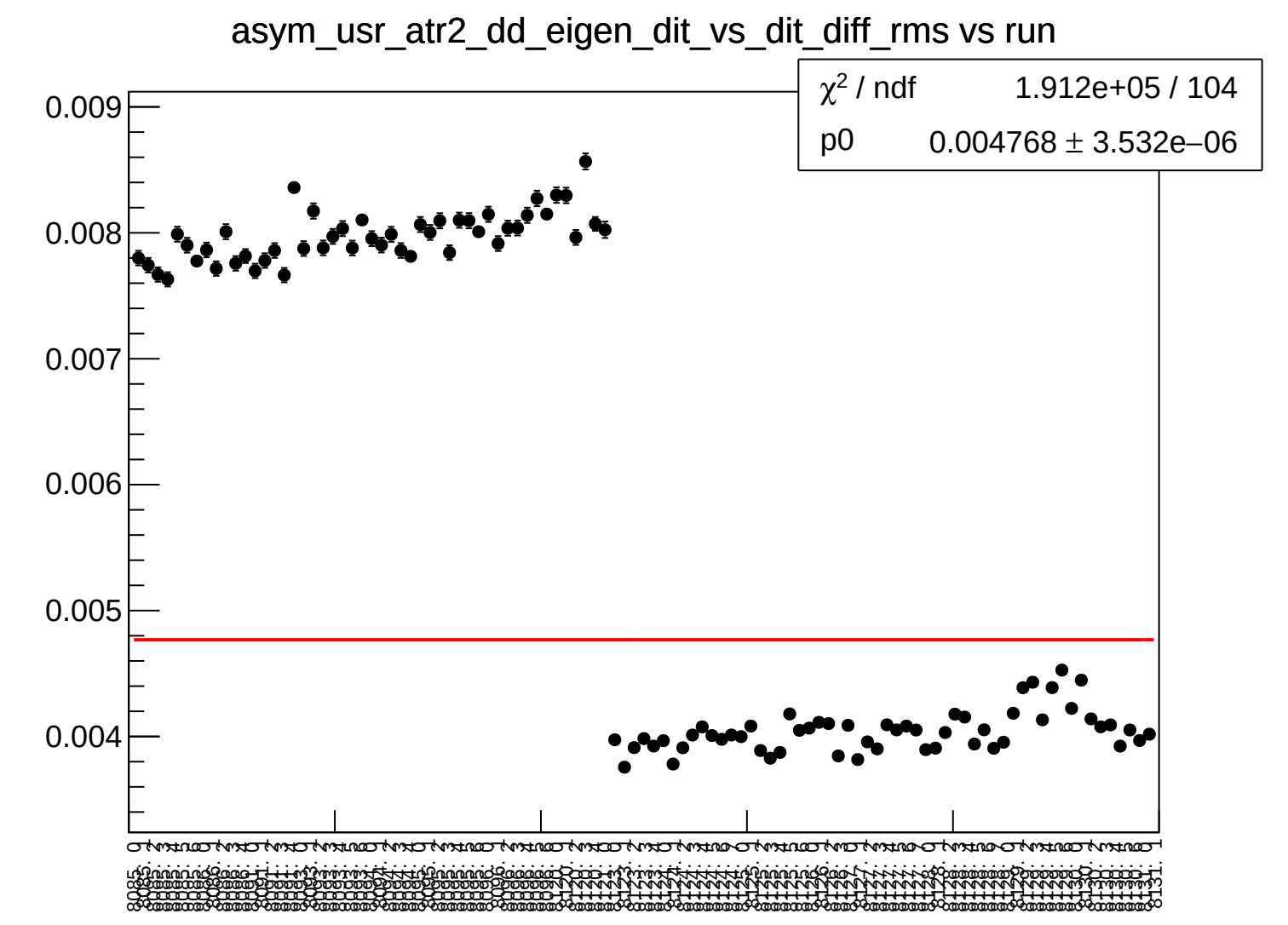

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.2 / 105
p0 0.005834 ± 0.1308
10
0
−10
−20
−30
pull
Entries 106
Mean 50.89
Std Dev 0
2
1
0
−1
−2

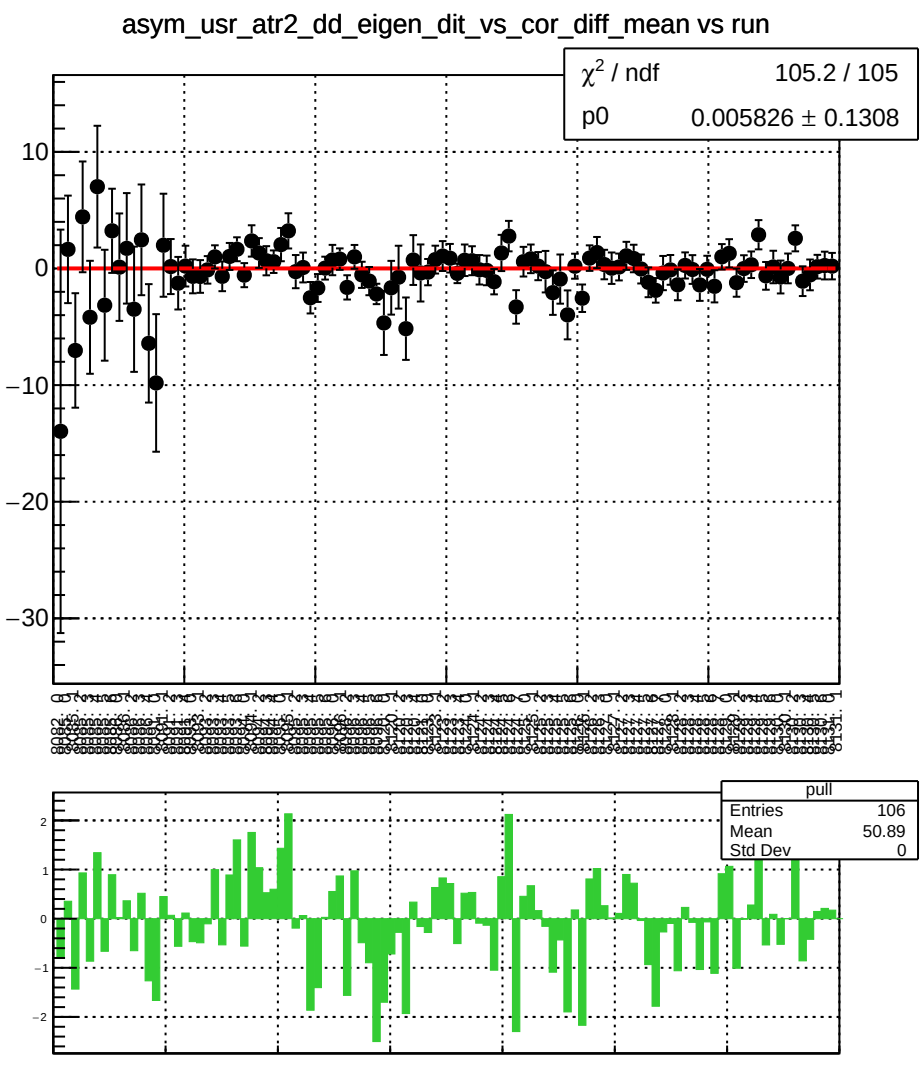

pull1D
Entries 106
Mean −0.0527
Std Dev 0.9949
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

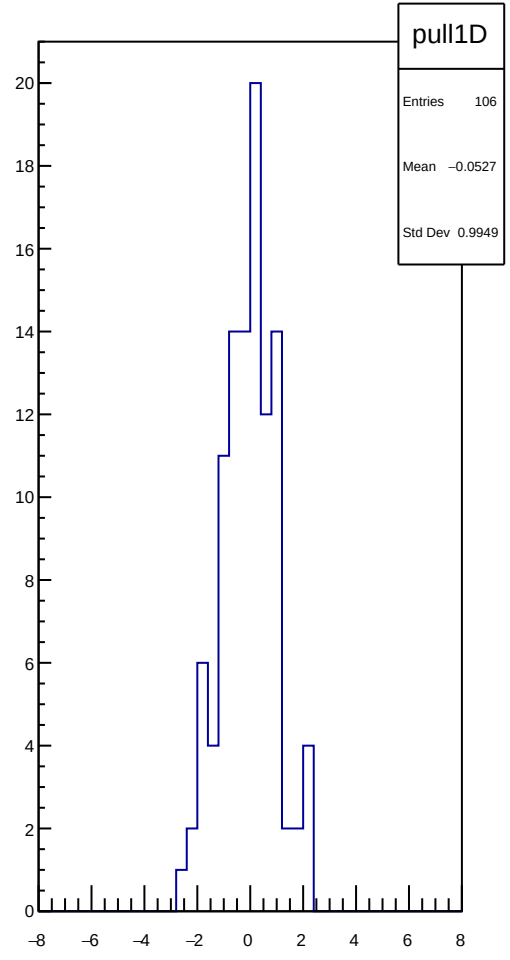

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.184e+05 / 105
p0 124.2 ± 0.09249
1200
1000
800
600
400
200

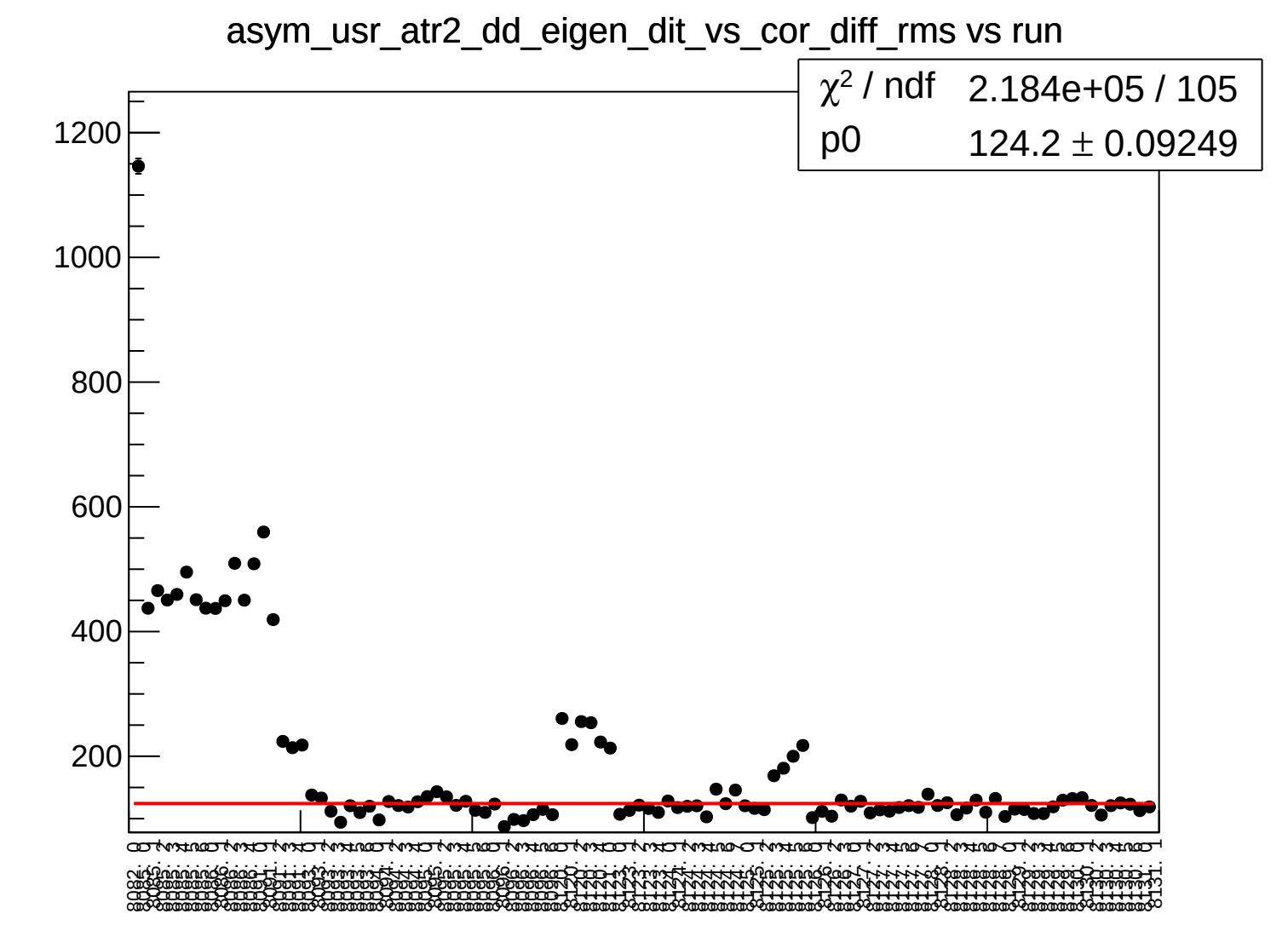

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 68.18 / 104
p0 −5.026e−06 ± 4.994e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 105
Mean −569.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

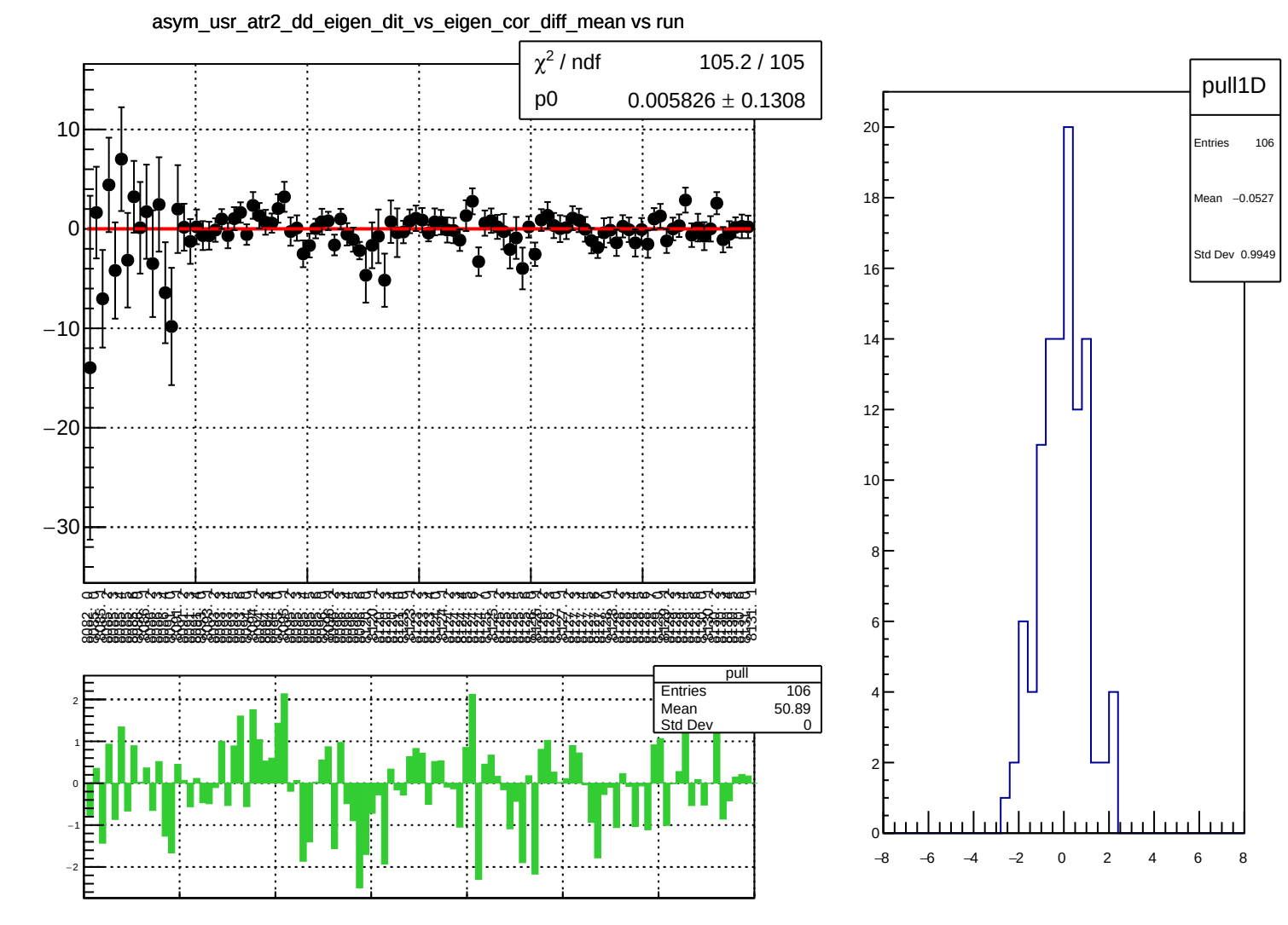

pull1D
Entries 105
Mean −0.001498
Std Dev 0.8058
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

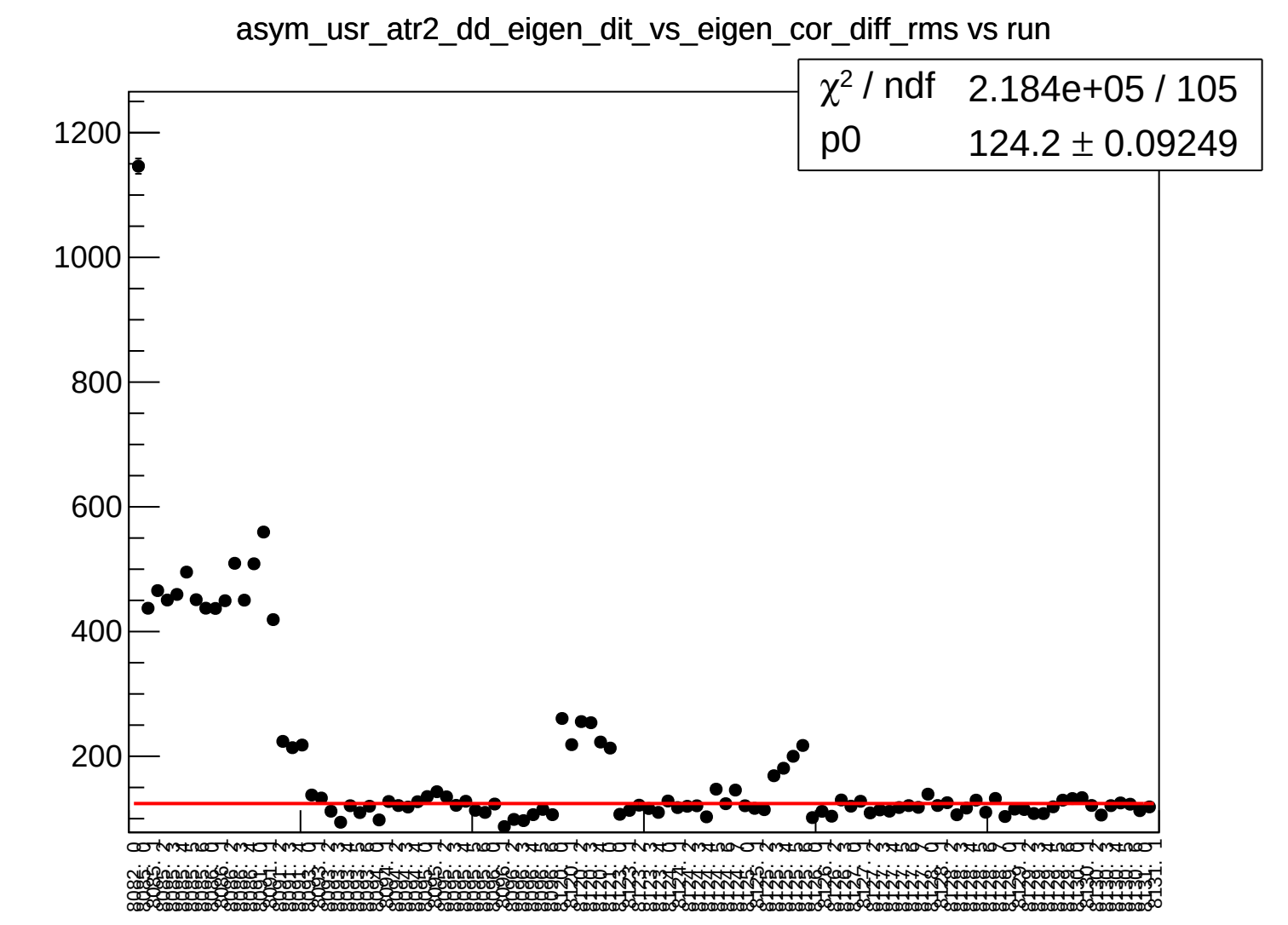

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.912e+05 / 104
p0 0.004768 ± 3.532e−06
0.009
0.008
0.007
0.006
0.005
0.004

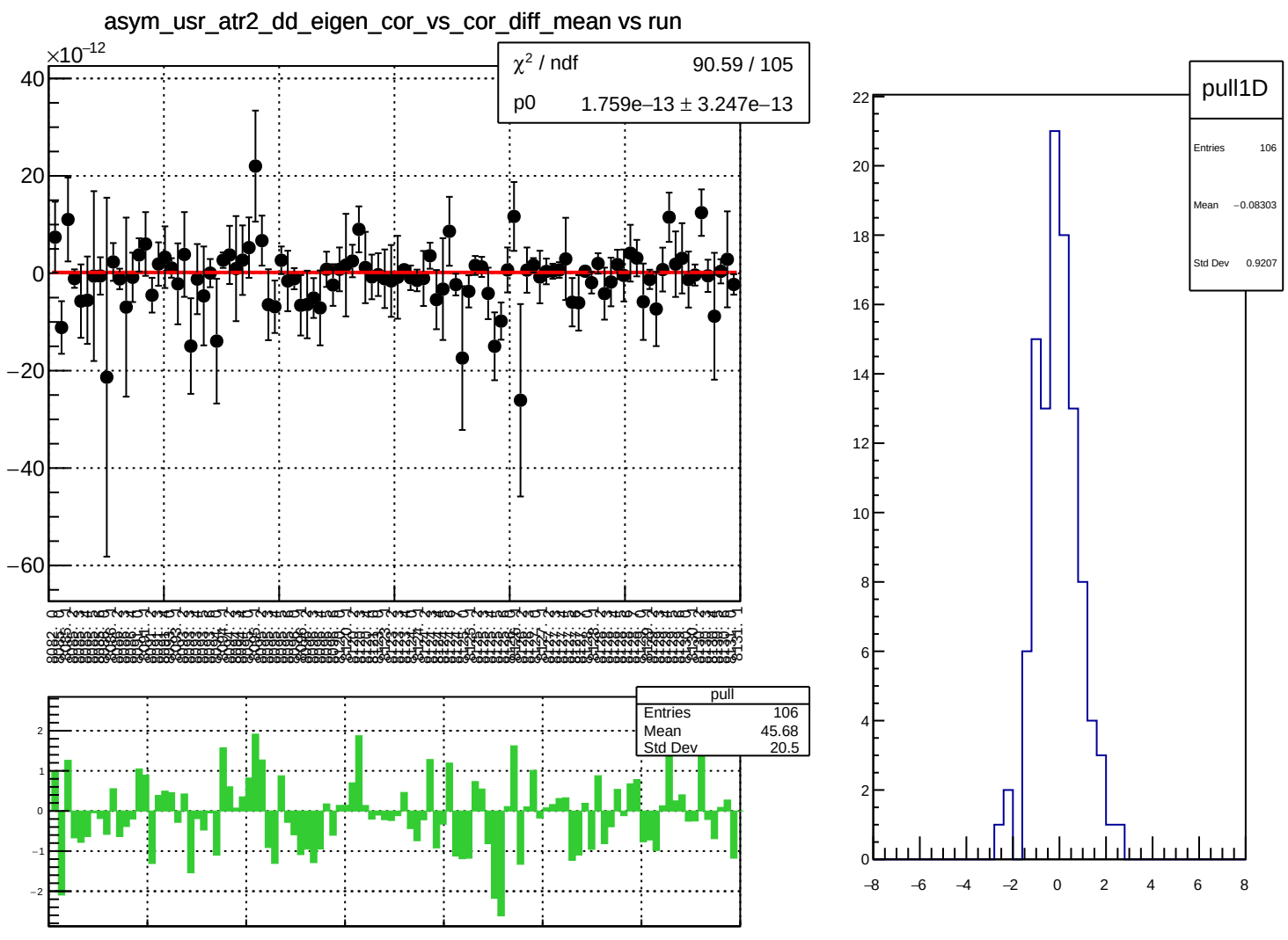

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 105.2 / 105
p0 0.005826 ± 0.1308
pull
Entries 106
Mean 50.89
Std Dev 0

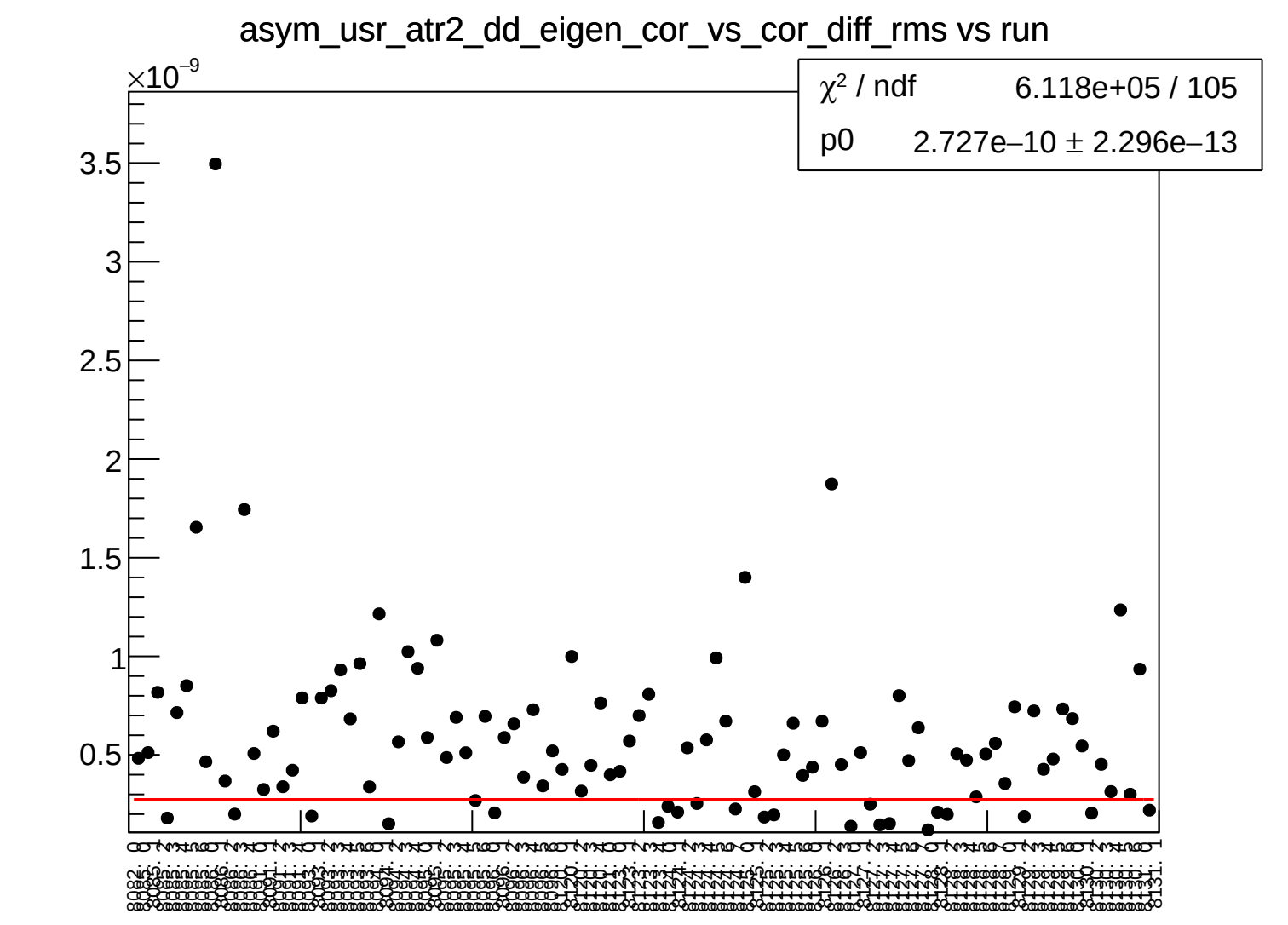

pull1D
Entries 106
Mean −0.0527
Std Dev 0.9949

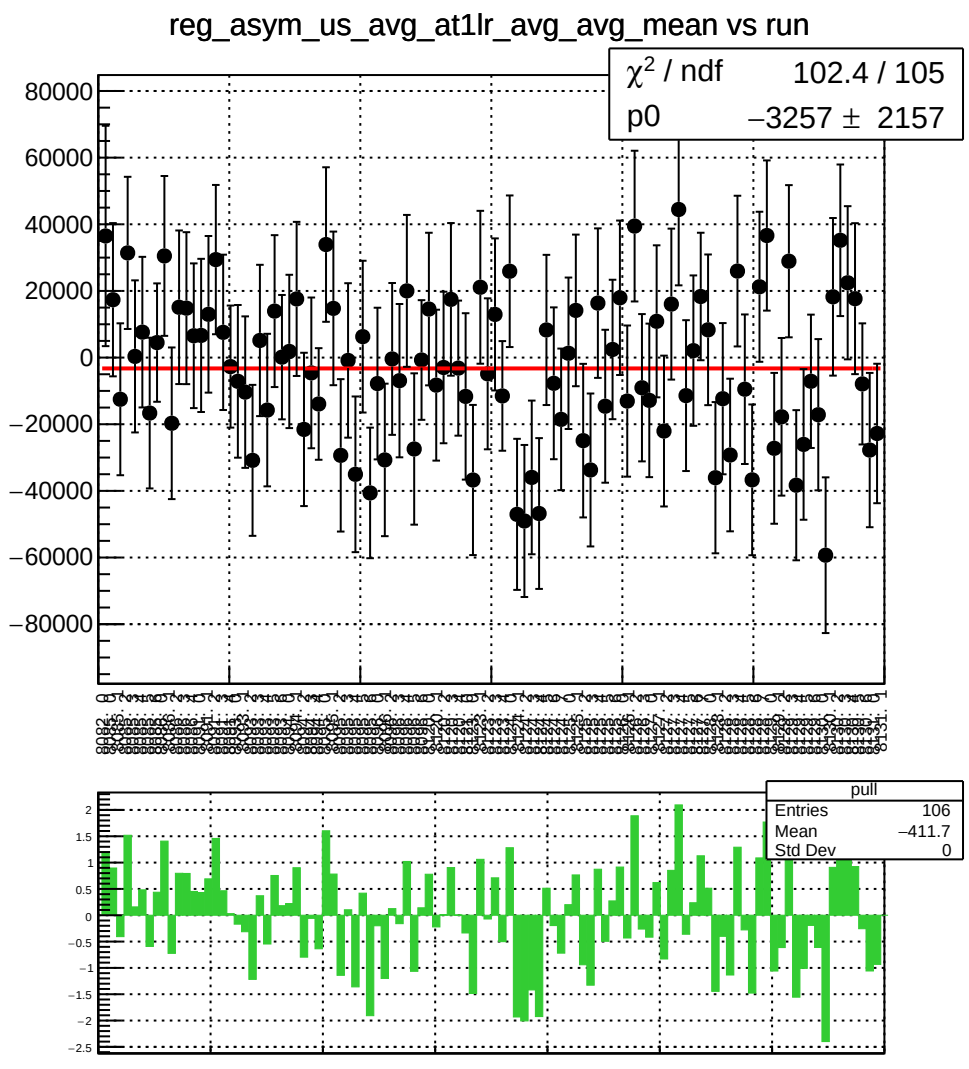

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.184e+05 / 105
p0 124.2 ± 0.09249
1200
1000
800
600
400
200

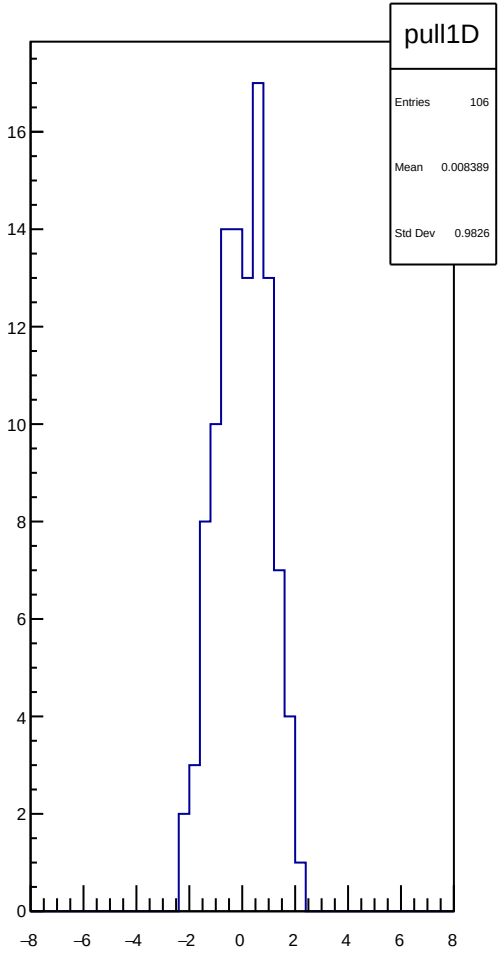

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.2 / 105
p0 0.005826 ± 0.1308
10
0
−10
−20
−30
pull
Entries 106
Mean 50.89
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 106
Mean −0.0527
Std Dev 0.9949
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

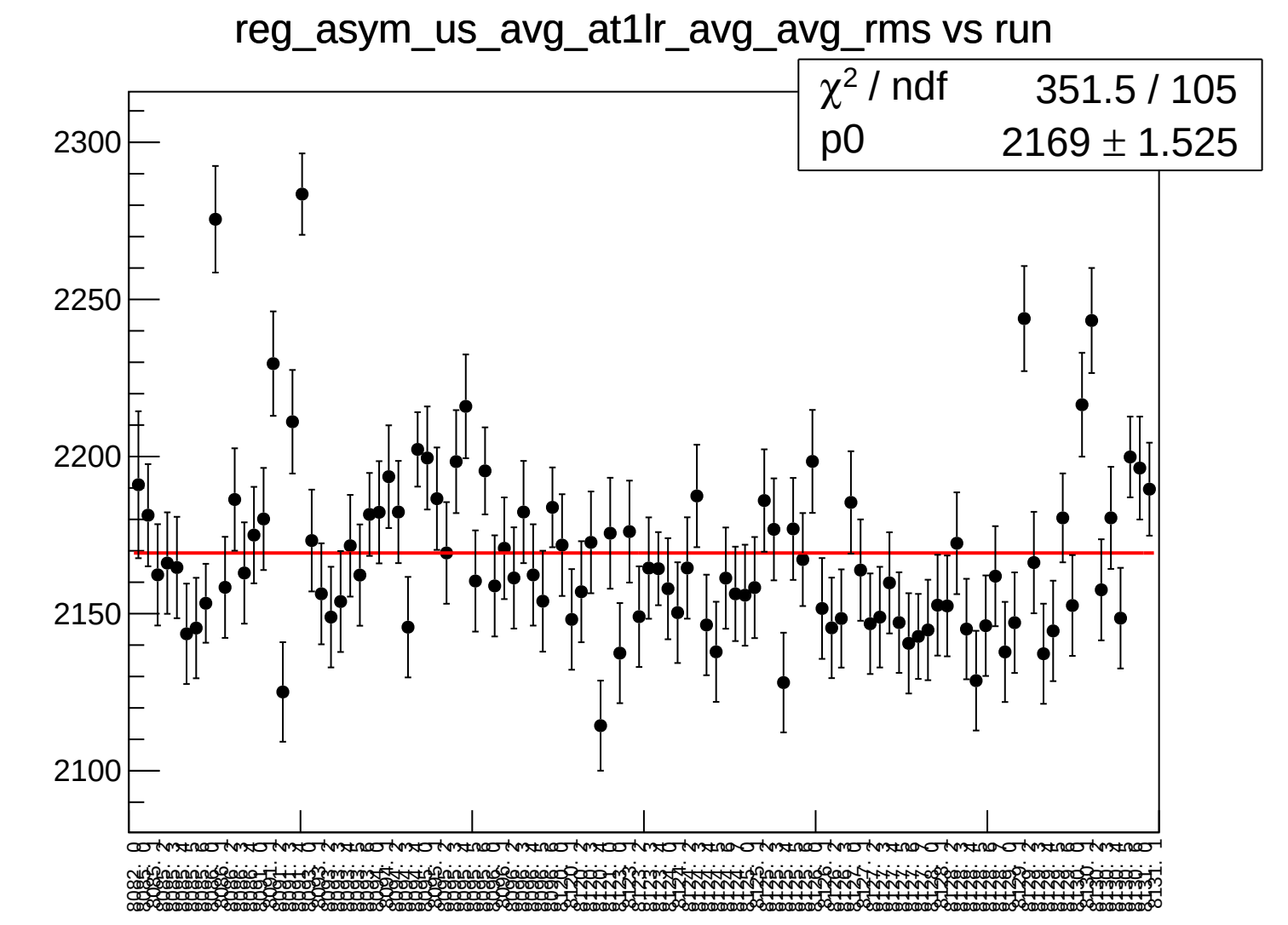

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.184e+05 / 105
p0 124.2 ± 0.09249
1200
1000
800
600
400
200

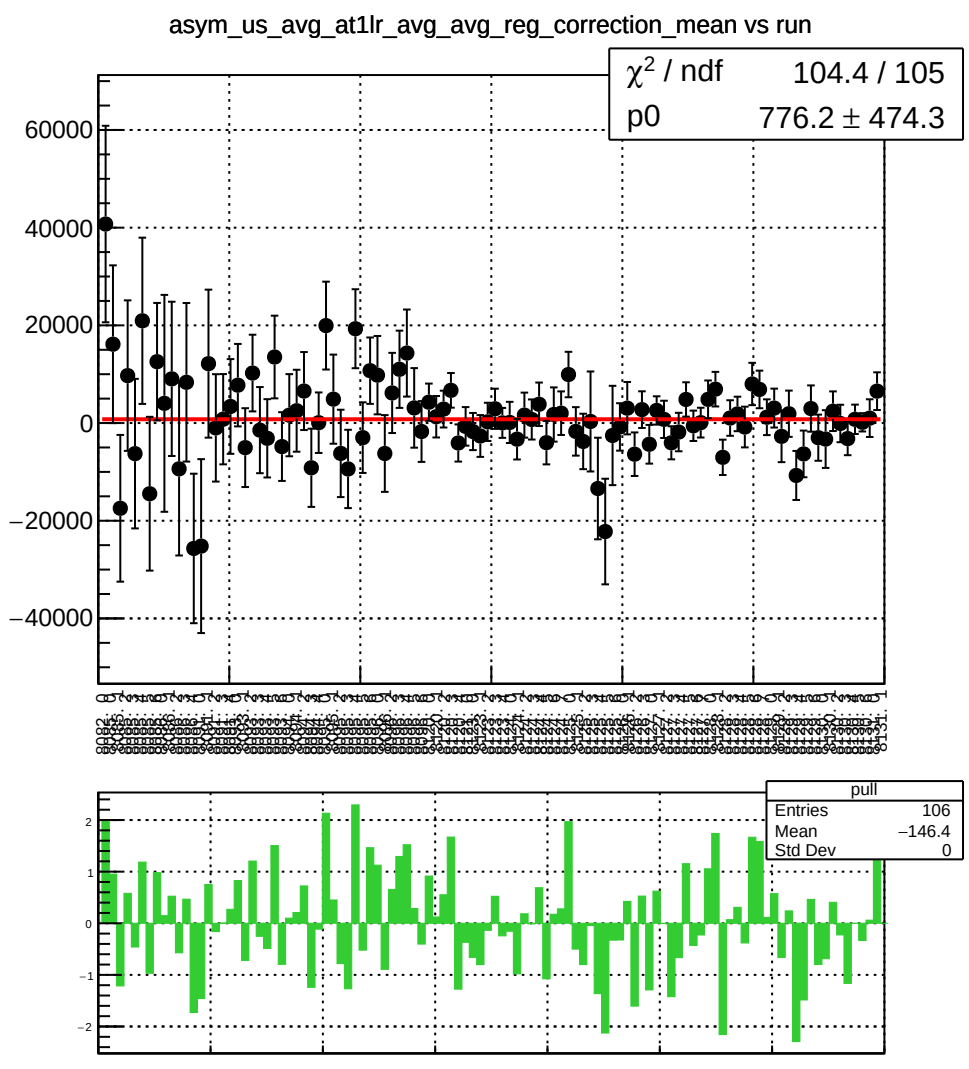

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.59 / 105
p0 1.759e−13 ± 3.247e−13
40
20
0
−20
−40
−60
pull
Entries 106
Mean 45.68
Std Dev 20.5
2
1
0
−1
−2
pull1D
Entries 106
Mean −0.08303
Std Dev 0.9207
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

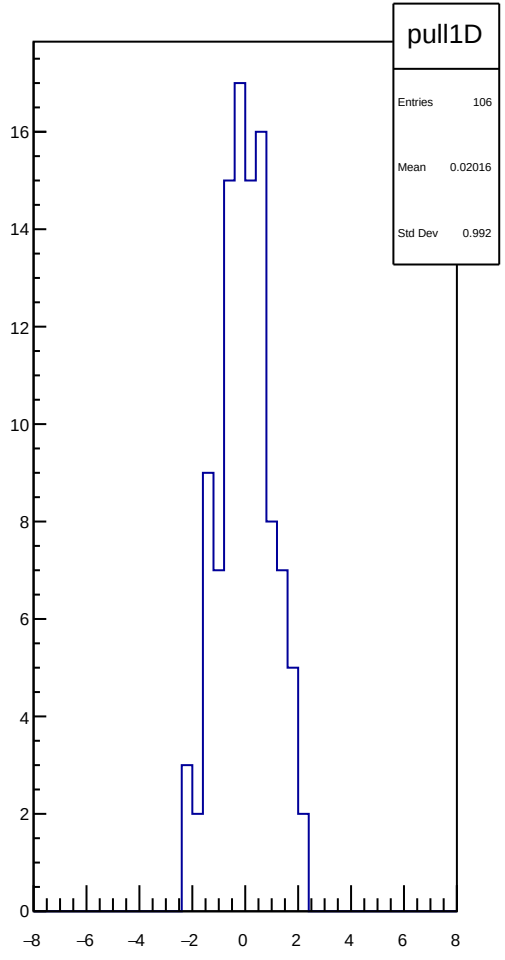

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.118e+05 / 105
p0 2.727e−10 ± 2.296e−13
3.5
3
2.5
2
1.5
1
0.5

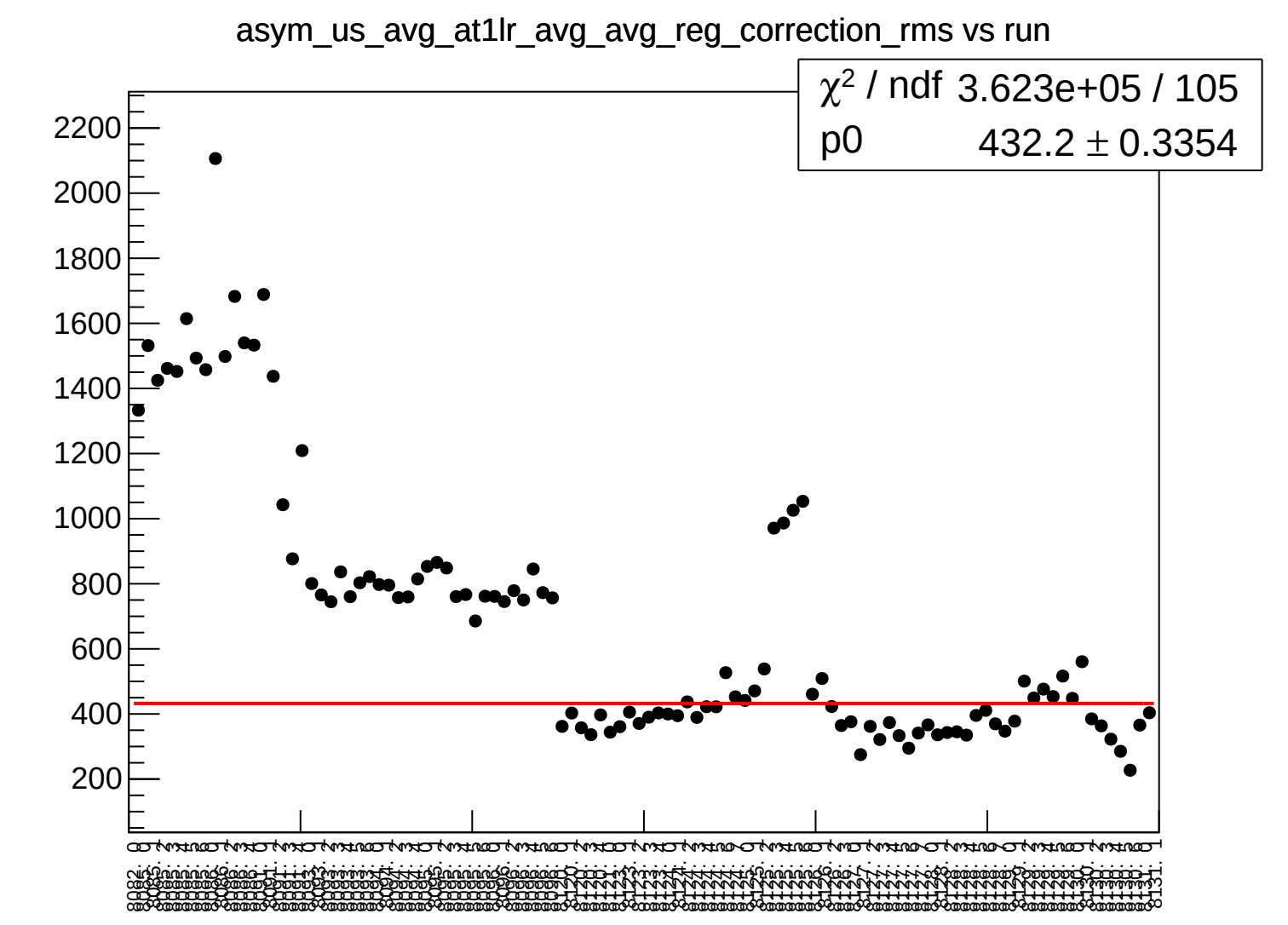

reg_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 102.4 / 105
p0 −3257 ± 2157
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 106
Mean −411.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

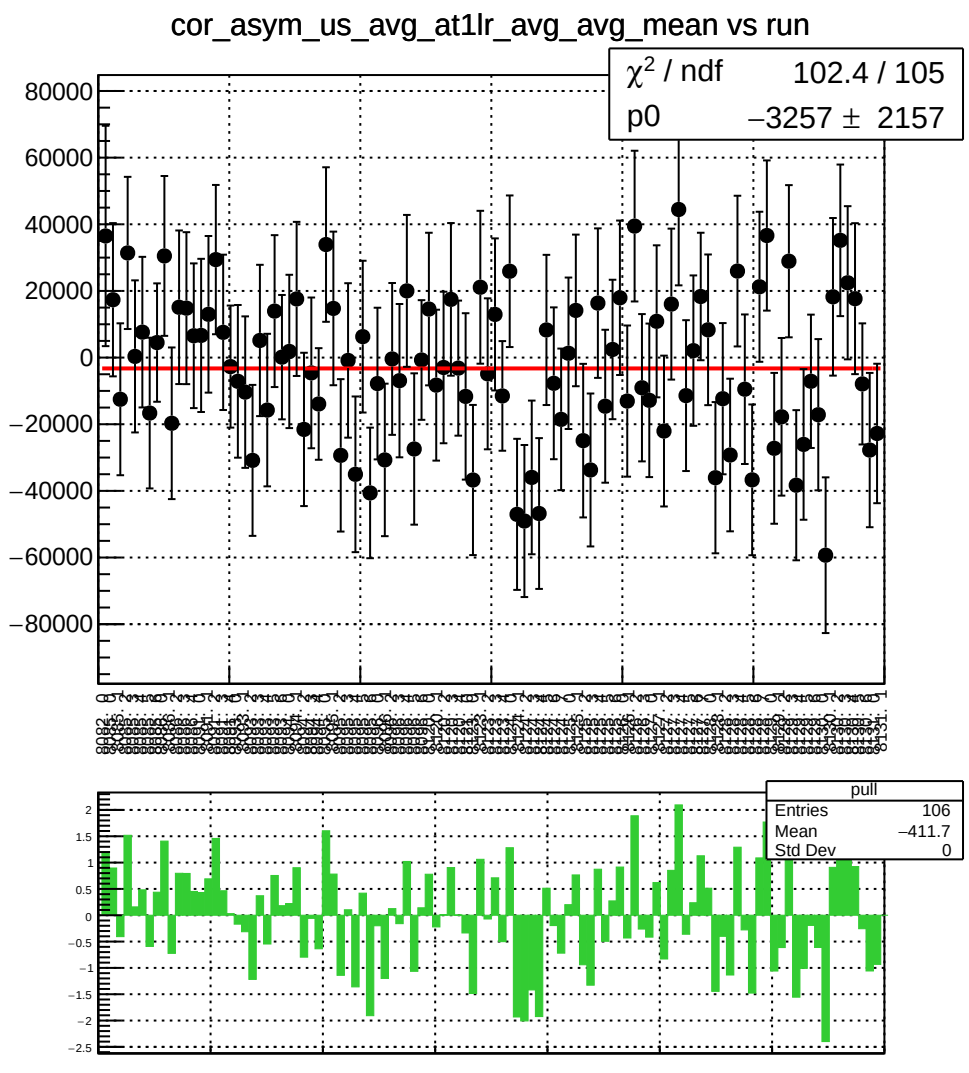

pull1D
Entries 106
Mean 0.008389
Std Dev 0.9826
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

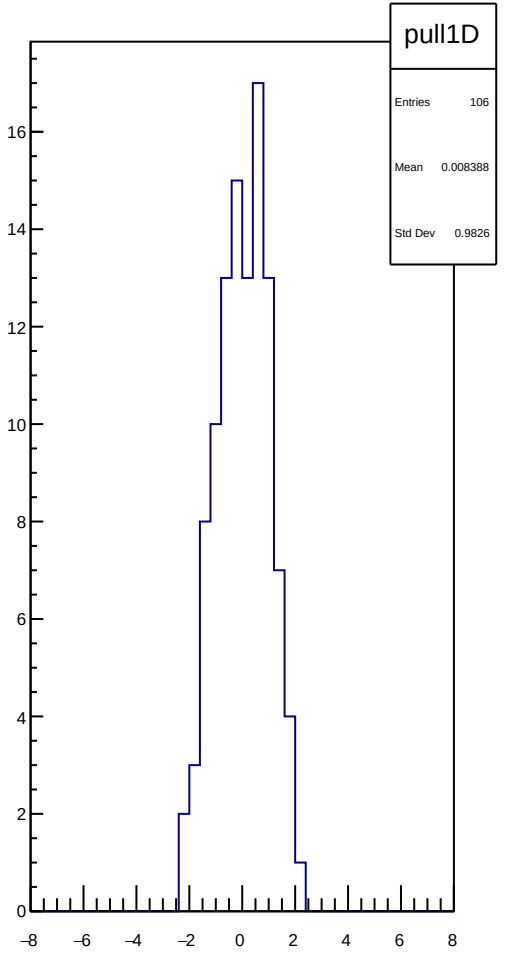

reg_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 351.5 / 105
p0 2169 ± 1.525
2300
2250
2200
2150
2100

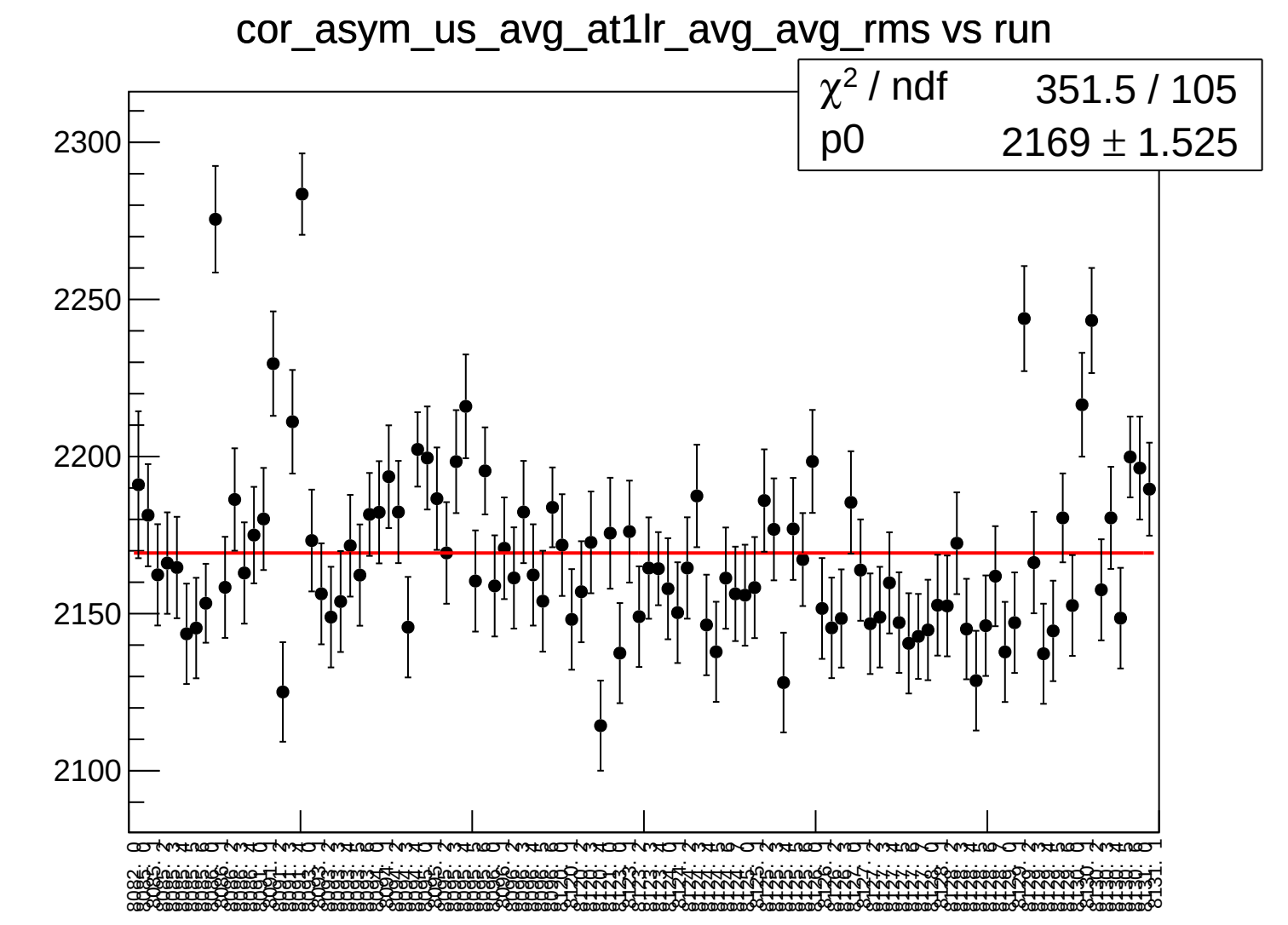

asym_us_avg_at1lr_avg_avg_reg_correction_mean vs run
χ² / ndf 104.4 / 105
p0 776.2 ± 474.3
60000
40000
20000
0
−20000
−40000
pull
Entries 106
Mean −146.4
Std Dev 0
2
1
0
−1
−2

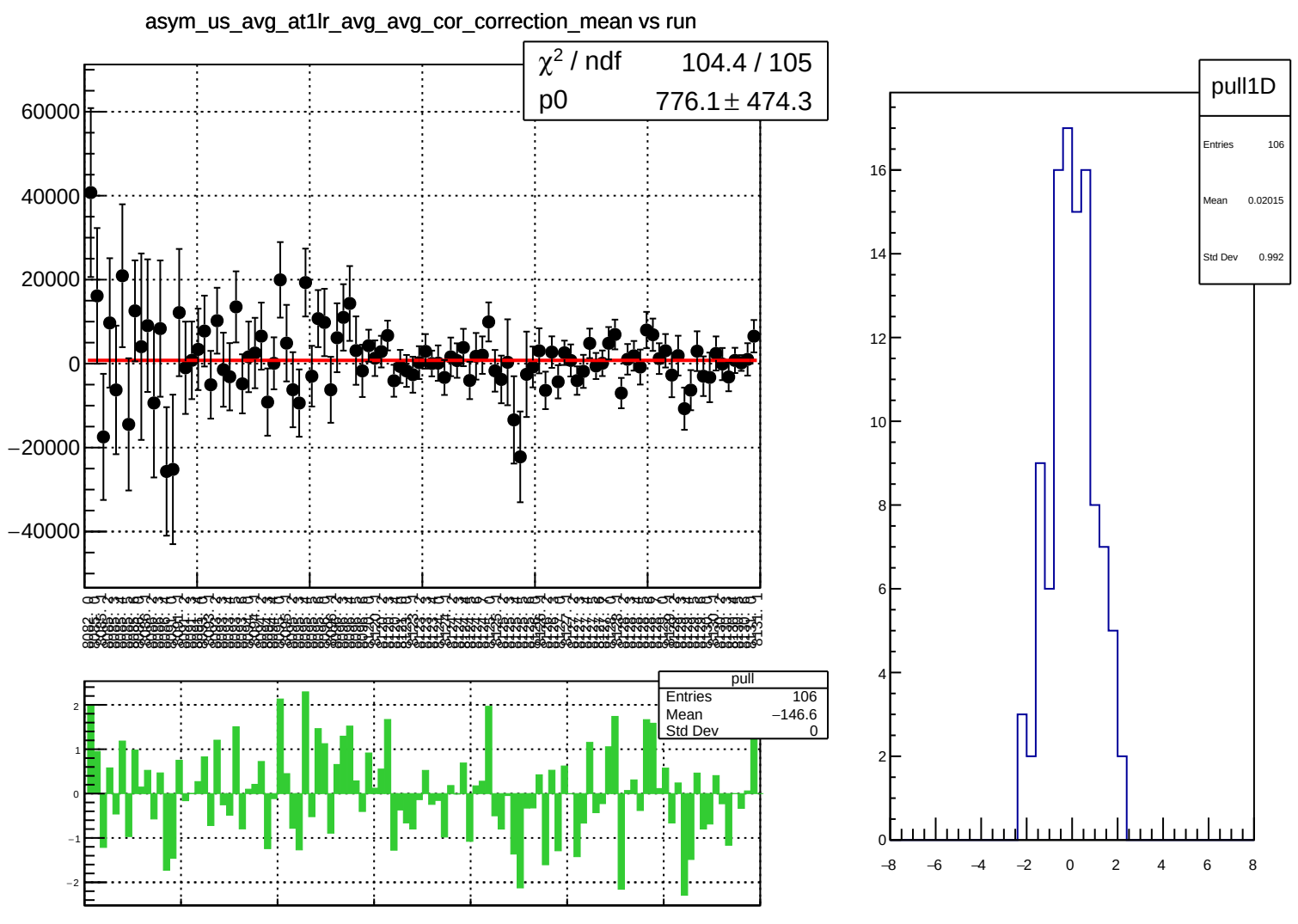

pull1D
Entries 106
Mean 0.02016
Std Dev 0.992
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

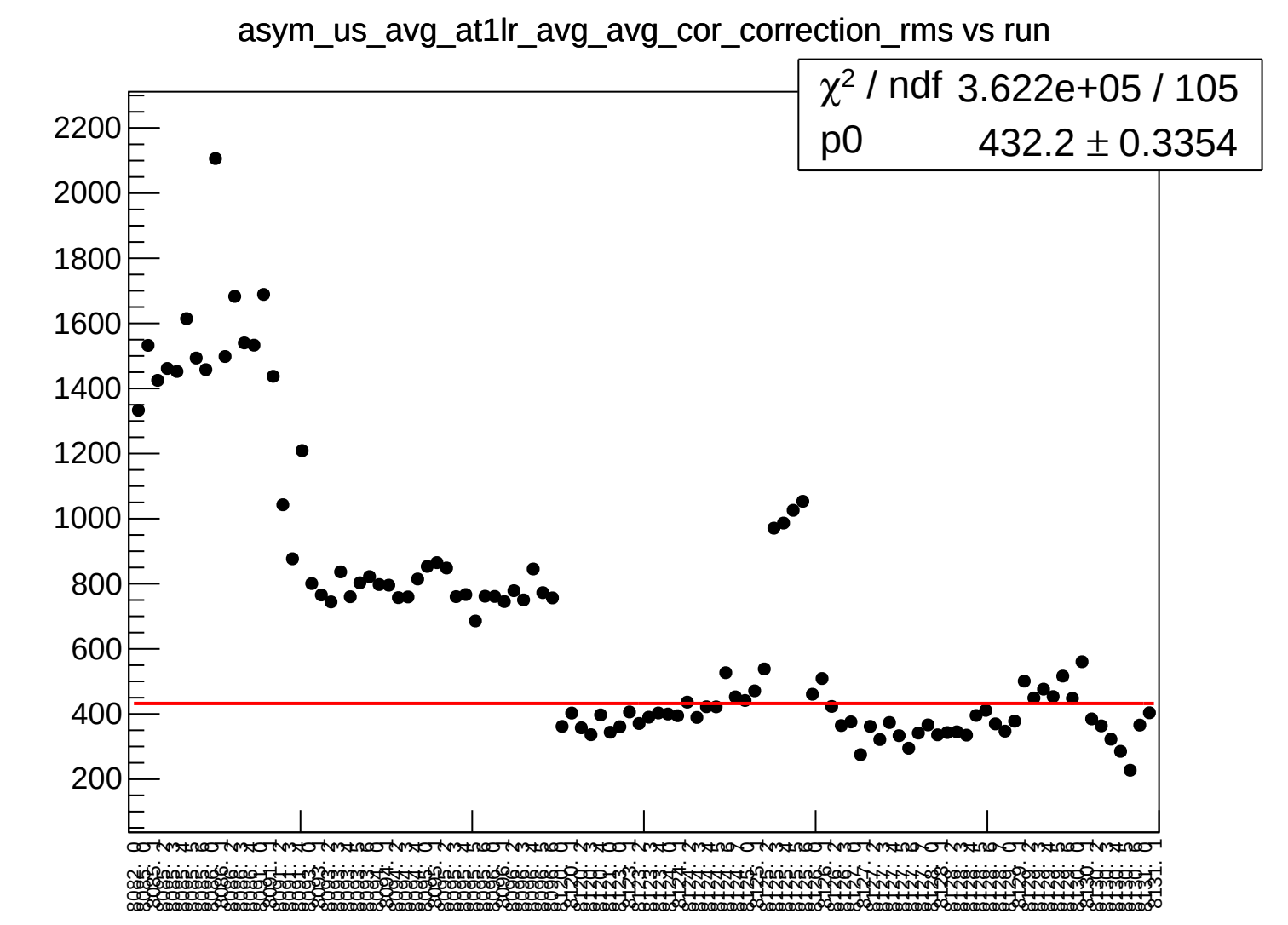

asym_us_avg_at1lr_avg_avg_reg_correction_rms vs run
χ² / ndf 3.623e+05 / 105
p0 432.2 ± 0.3354
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

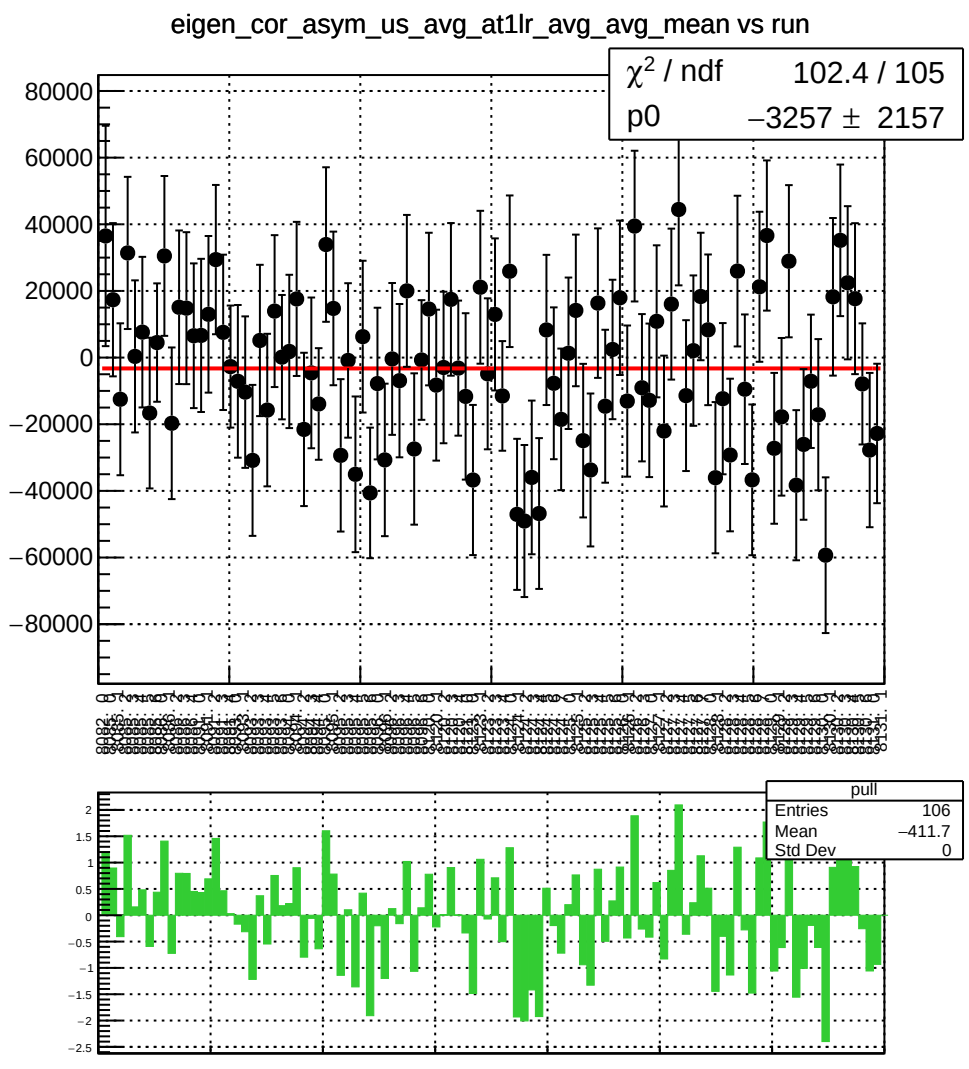

cor_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 102.4 / 105
p0 −3257 ± 2157
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 106
Mean −411.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

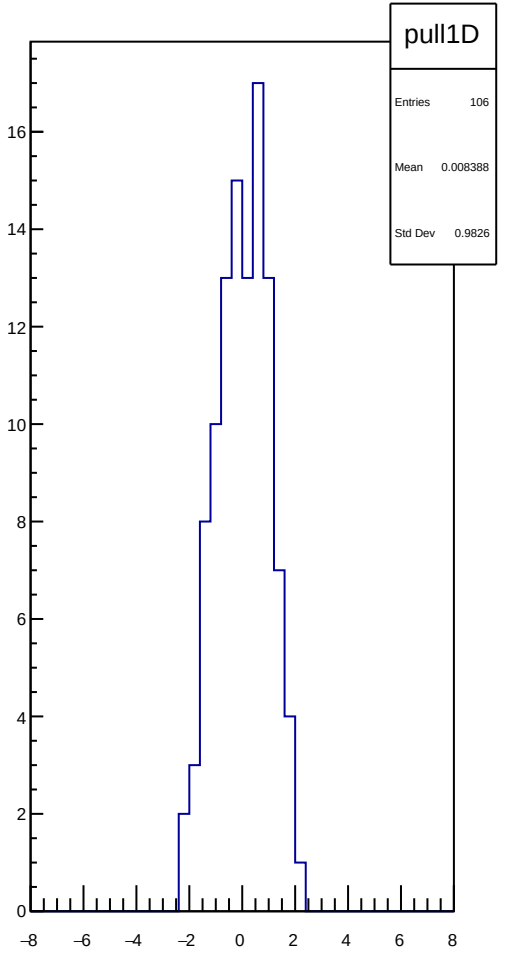

pull1D
Entries 106
Mean 0.008388
Std Dev 0.9826
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

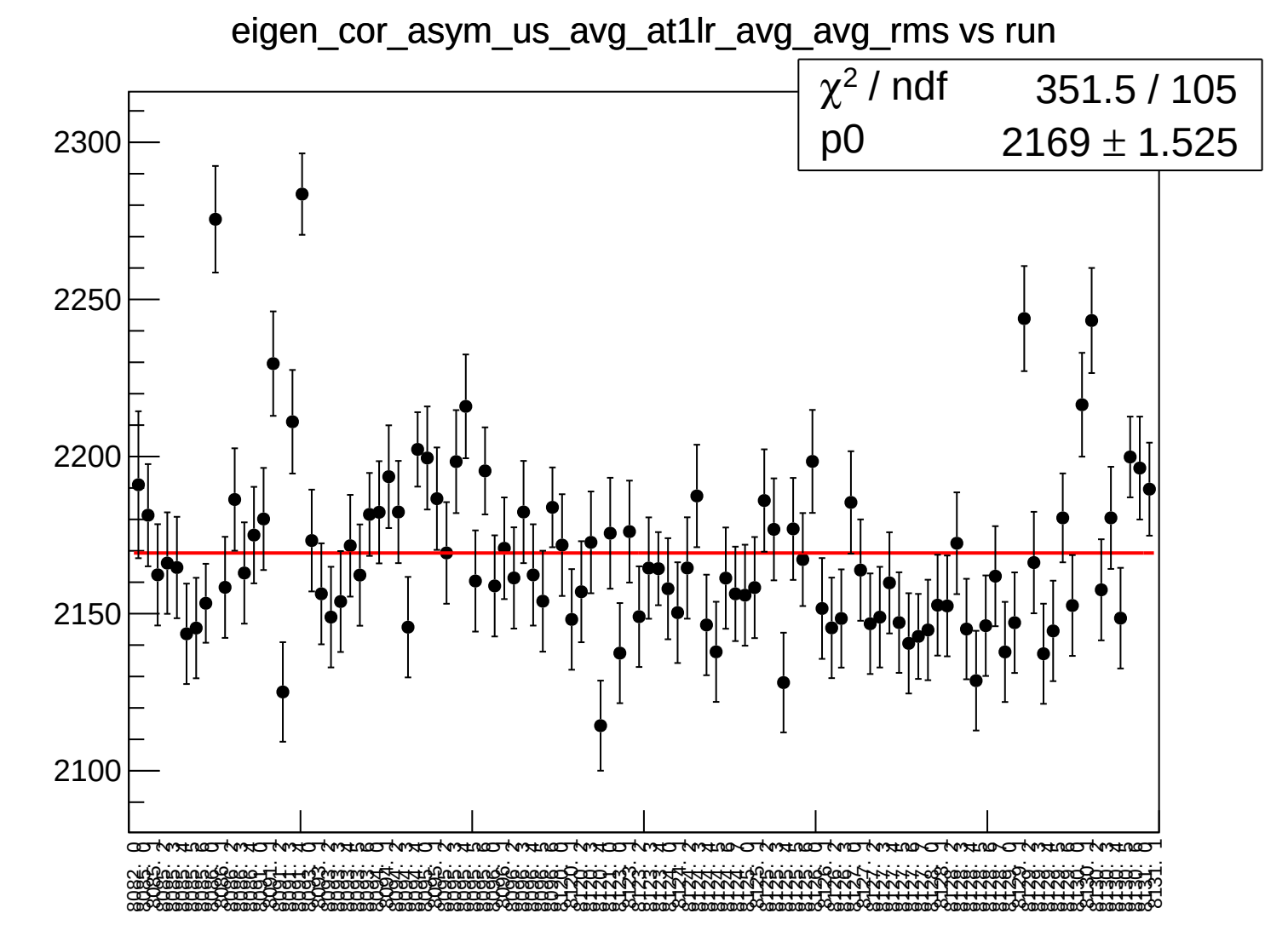

cor_asym_us_avg_at1lr_avg_avg_rms vs run
$\chi^2$ / ndf 351.5 / 105
p0 2169 ± 1.525
2300
2250
2200
2150
2100

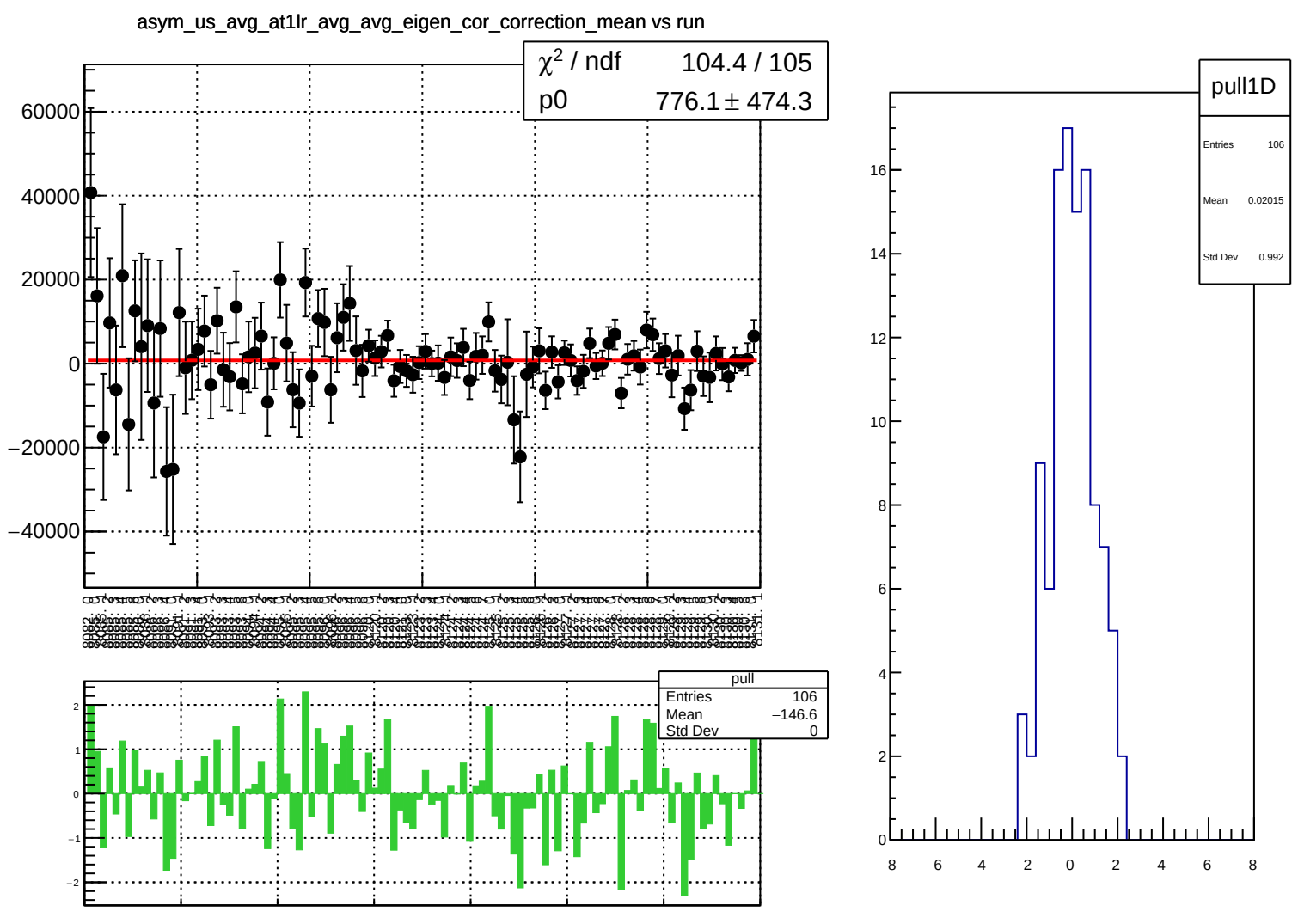

asym_us_avg_at1lr_avg_avg_cor_correction_mean vs run
χ² / ndf 104.4 / 105
p0 776.1 ± 474.3
60000
40000
20000
0
−20000
−40000
pull
Entries 106
Mean −146.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 106
Mean 0.02015
Std Dev 0.992
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

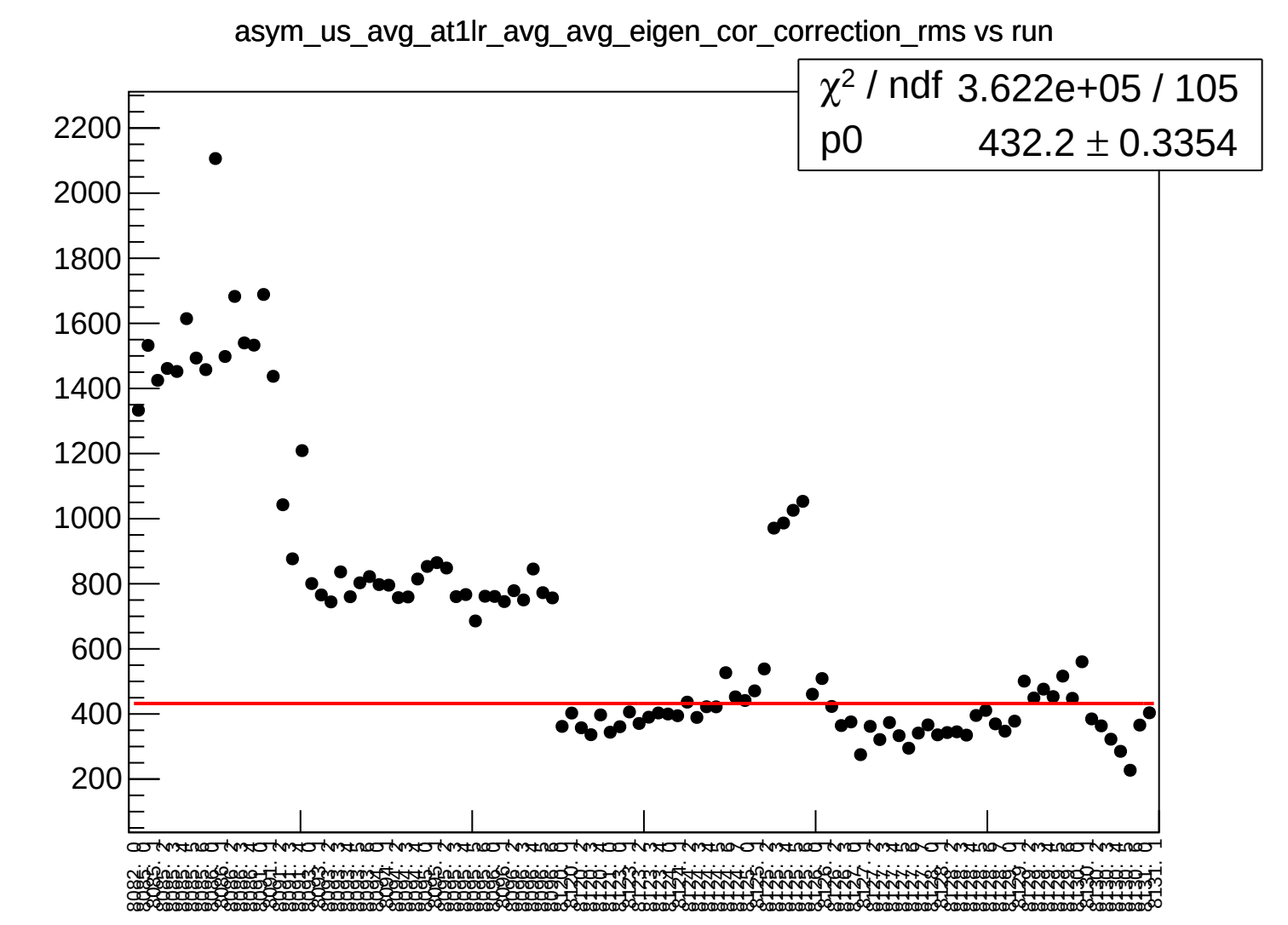

asym_us_avg_at1lr_avg_avg_cor_correction_rms vs run
χ² / ndf 3.622e+05 / 105
p0 432.2 ± 0.3354
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

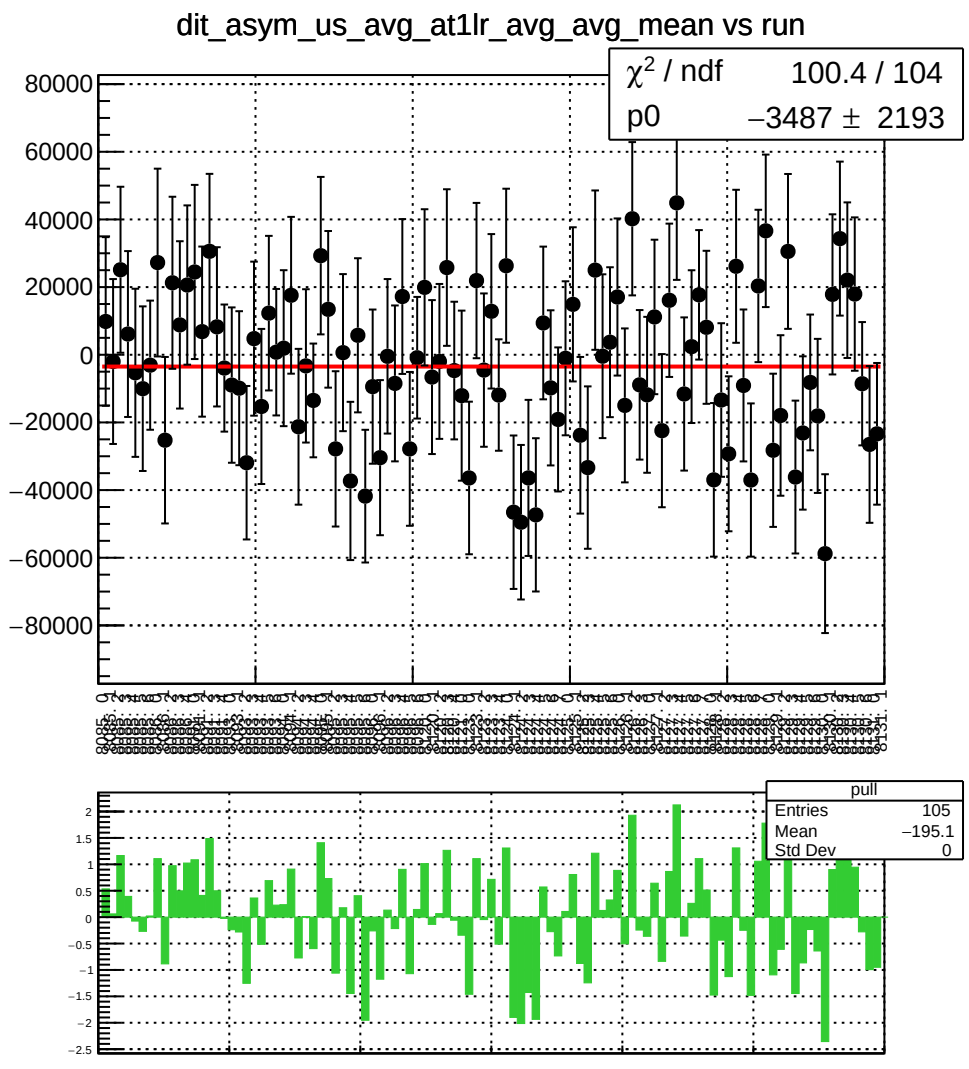

eigen_cor_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 102.4 / 105
p0 −3257 ± 2157
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 106
Mean −411.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

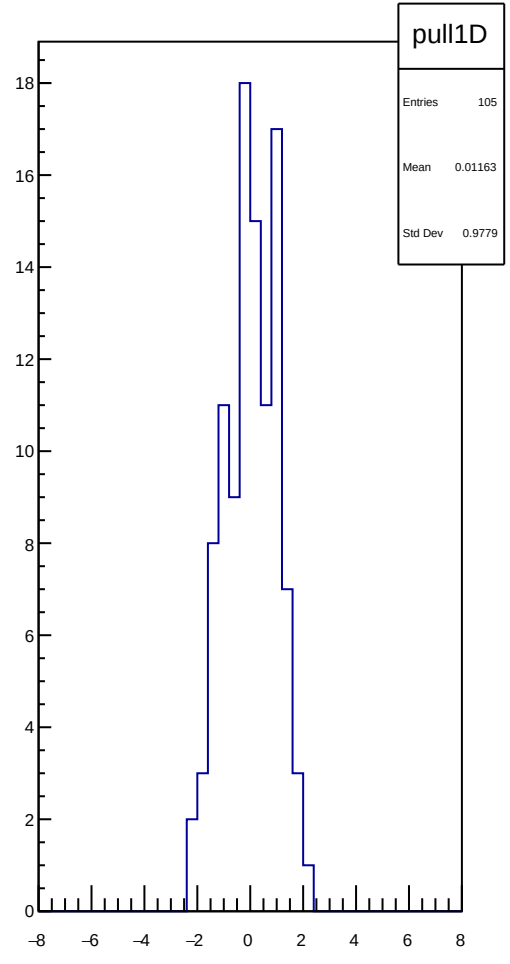

pull1D
Entries 106
Mean 0.008388
Std Dev 0.9826
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

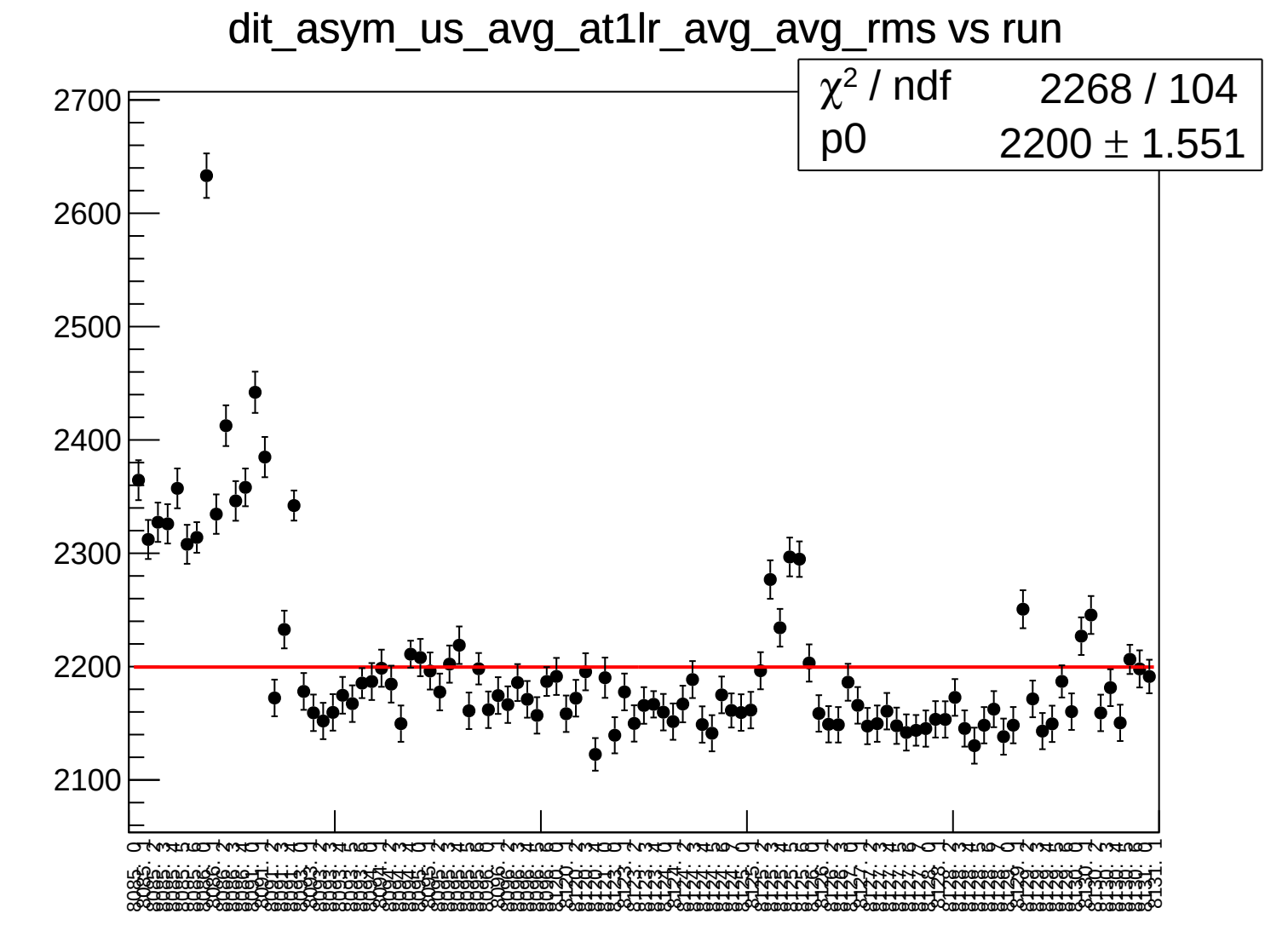

eigen_cor_asym_us_avg_at1lr_avg_avg_rms vs run
$\chi^2$ / ndf 351.5 / 105
p0 2169 ± 1.525
2300
2250
2200
2150
2100

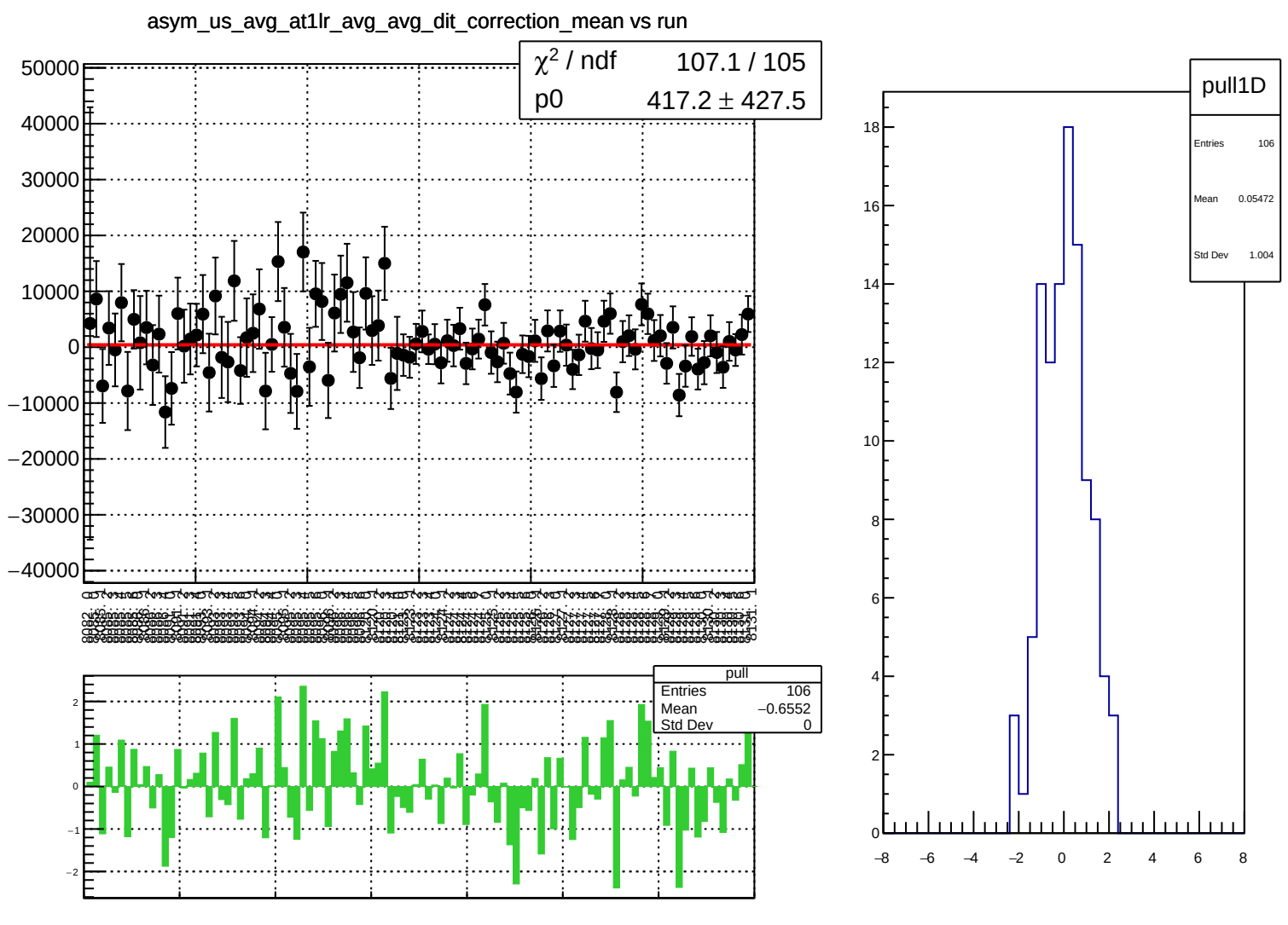

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_mean vs run
χ² / ndf 104.4 / 105
p0 776.1 ± 474.3
60000
40000
20000
0
−20000
−40000
pull
Entries 106
Mean −146.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 106
Mean 0.02015
Std Dev 0.992
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

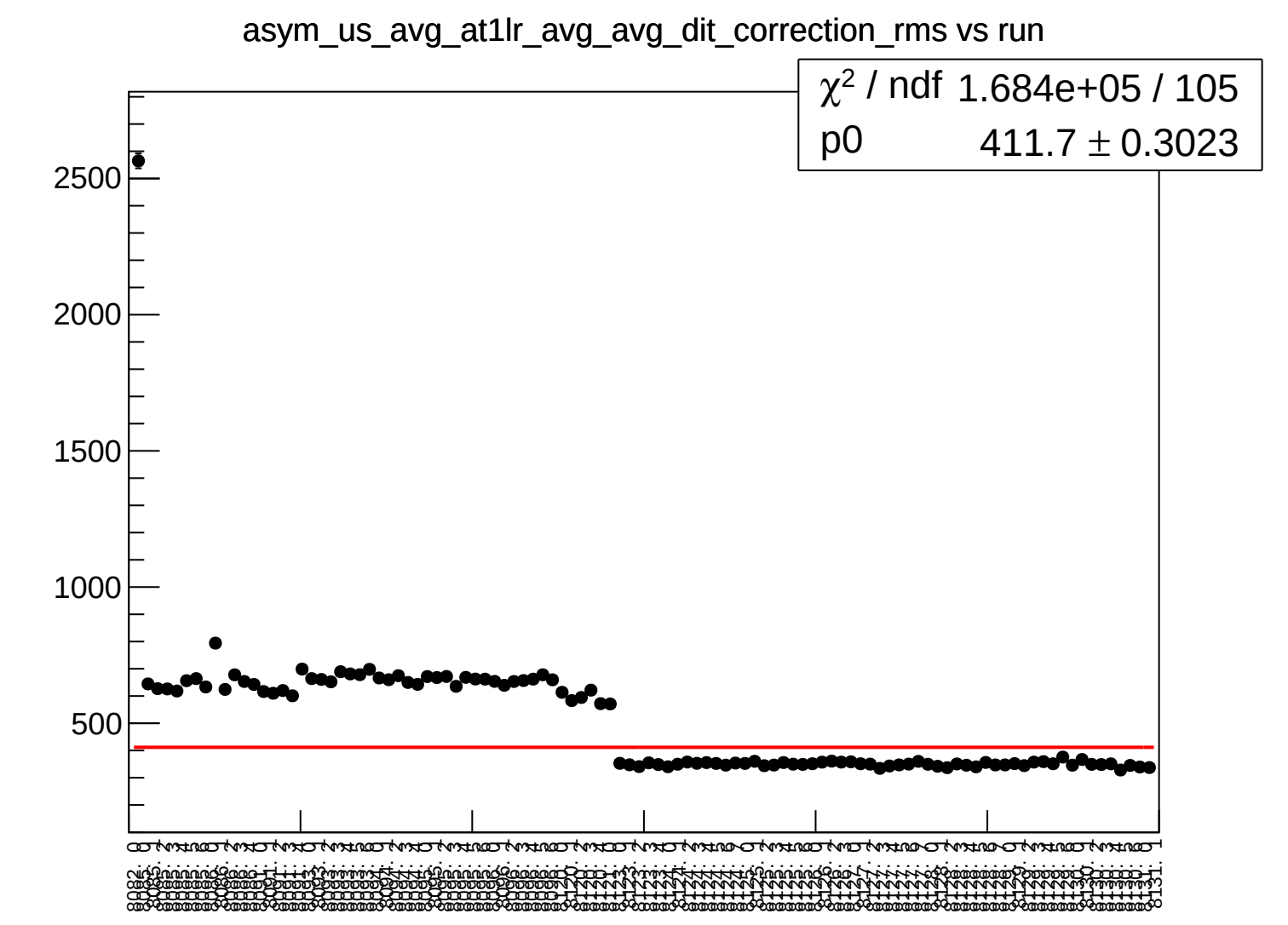

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.622e+05 / 105
p0 432.2 ± 0.3354
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

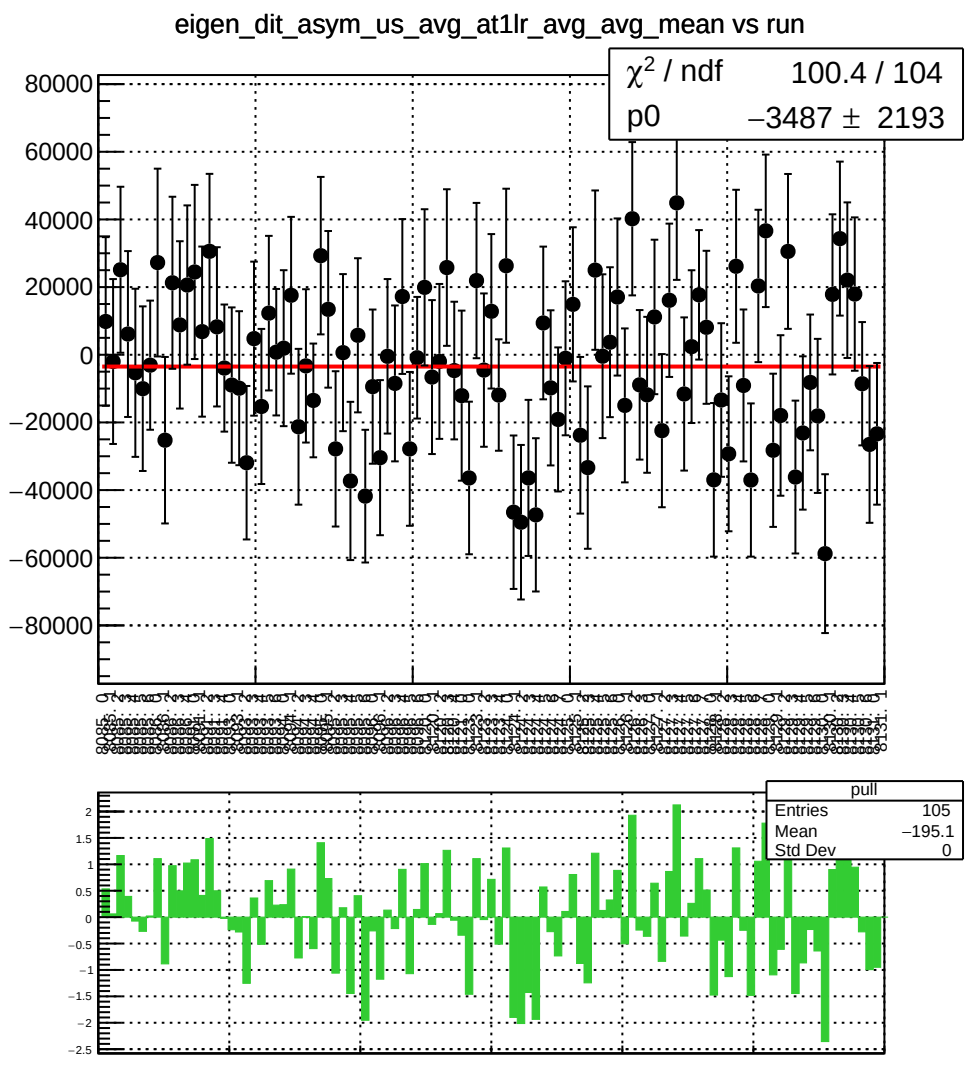

dit_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 100.4 / 104
p0 −3487 ± 2193
pull
Entries 105
Mean −195.1
Std Dev 0

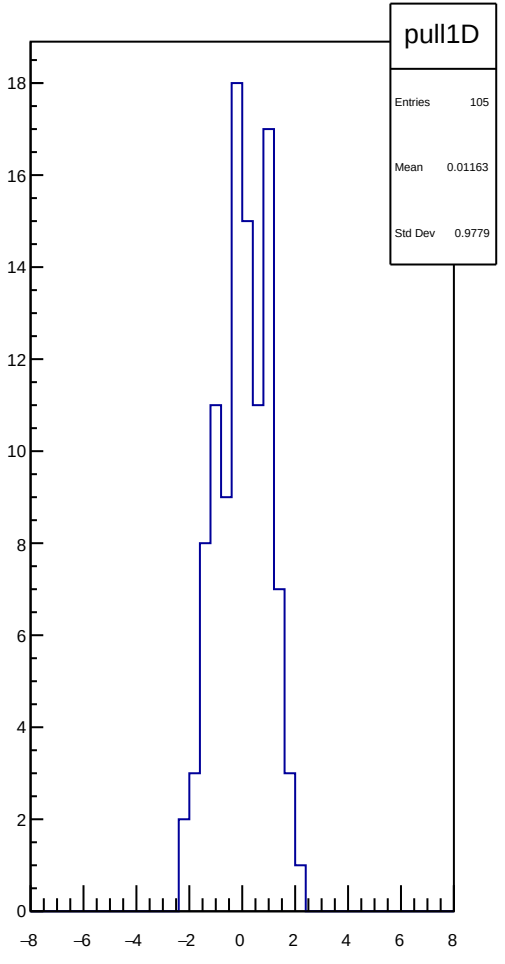

pull1D
Entries 105
Mean 0.01163
Std Dev 0.9779

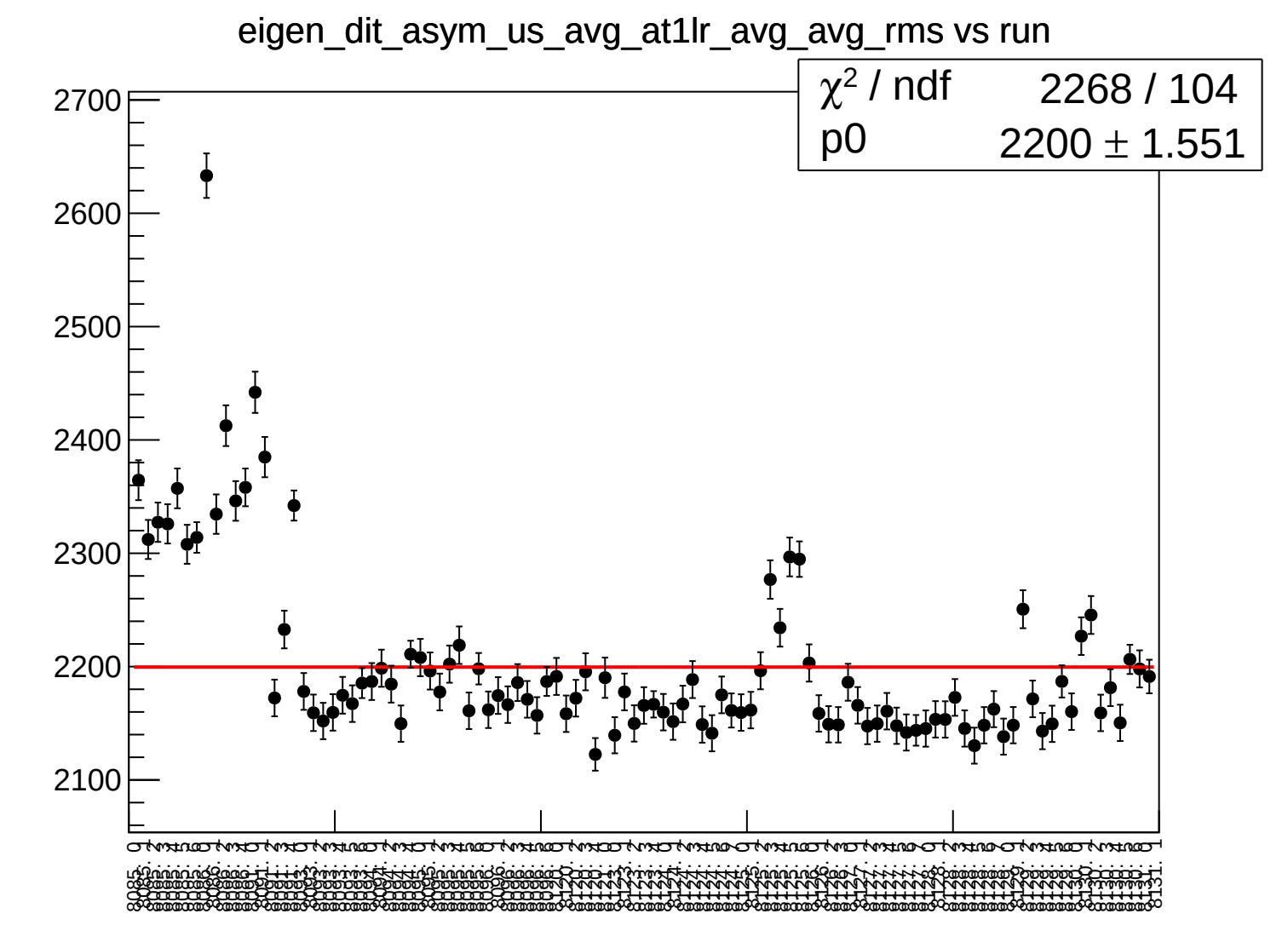

dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 2268 / 104
p0 2200 ± 1.551
2700
2600
2500
2400
2300
2200
2100

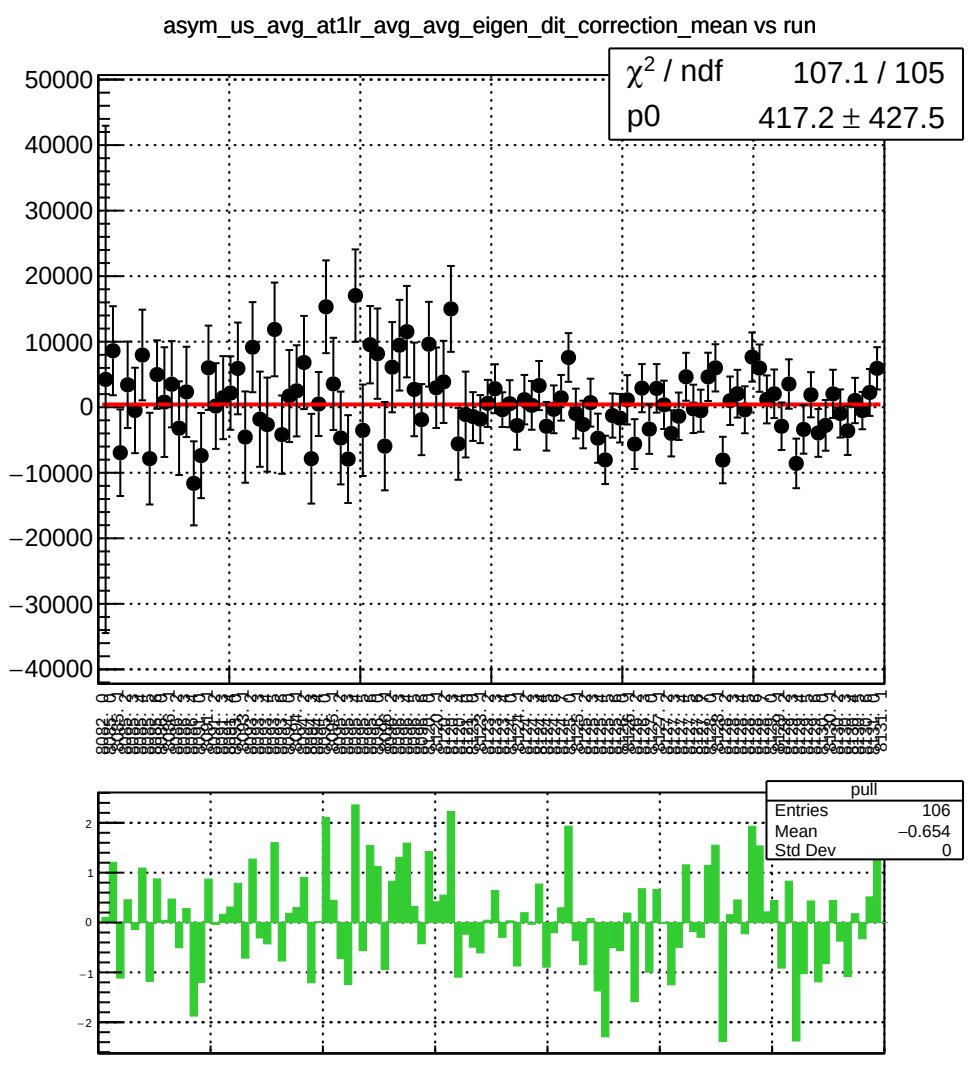

asym_us_avg_at1lr_avg_avg_dit_correction_mean vs run
χ² / ndf 107.1 / 105
p0 417.2 ± 427.5
pull
Entries 106
Mean −0.6552
Std Dev 0
pull1D
Entries 106
Mean 0.05472
Std Dev 1.004

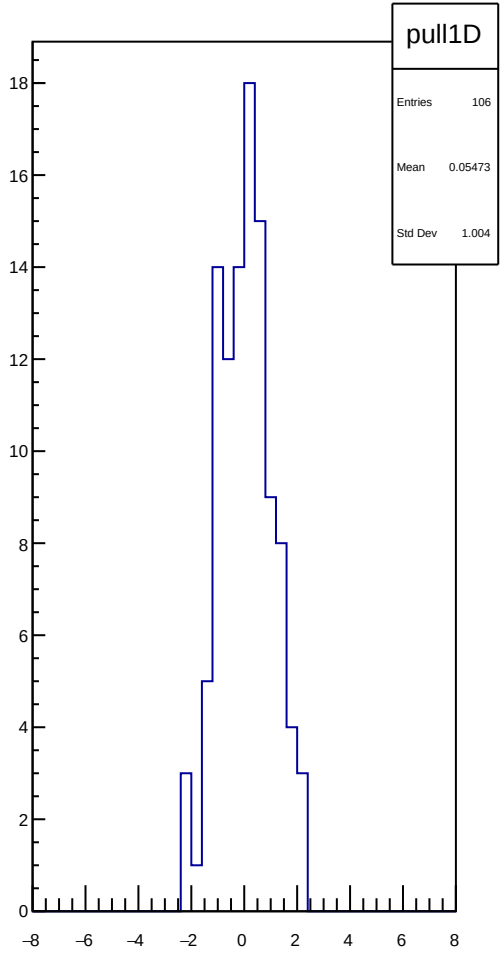

asym_us_avg_at1lr_avg_avg_dit_correction_rms vs run
χ² / ndf 1.684e+05 / 105
p0 411.7 ± 0.3023
2500
2000
1500
1000
500

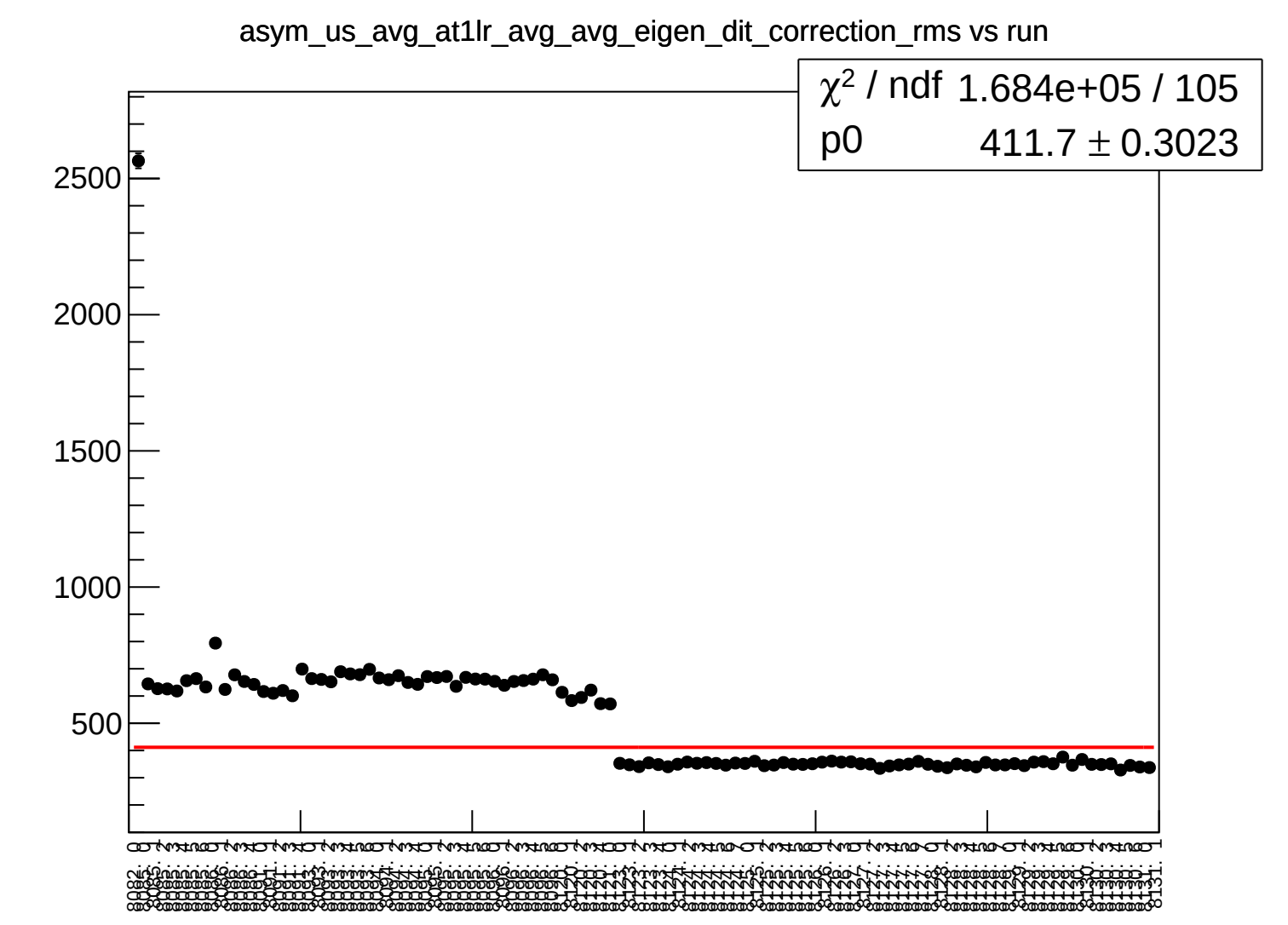

eigen_dit_asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 100.4 / 104
p0 −3487 ± 2193
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 105
Mean −195.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

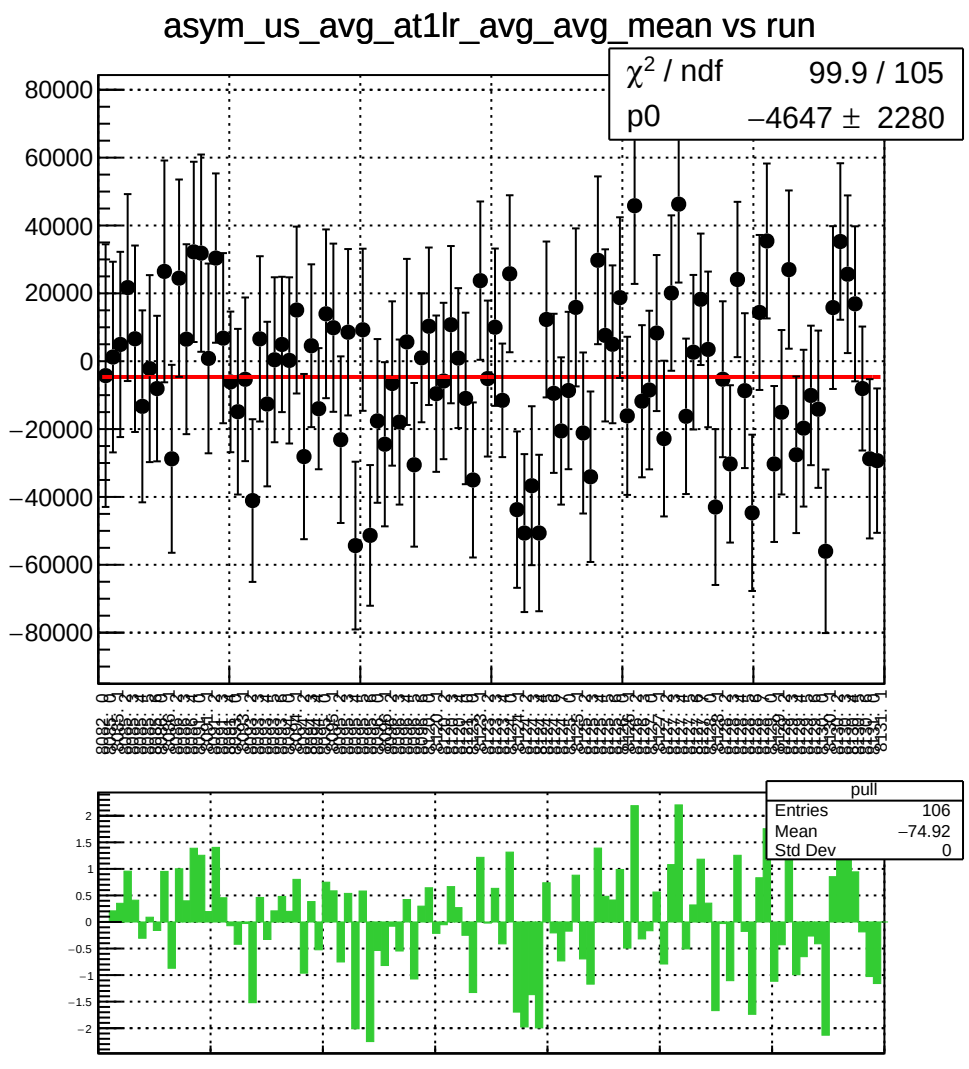

pull1D
Entries 105
Mean 0.01163
Std Dev 0.9779
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

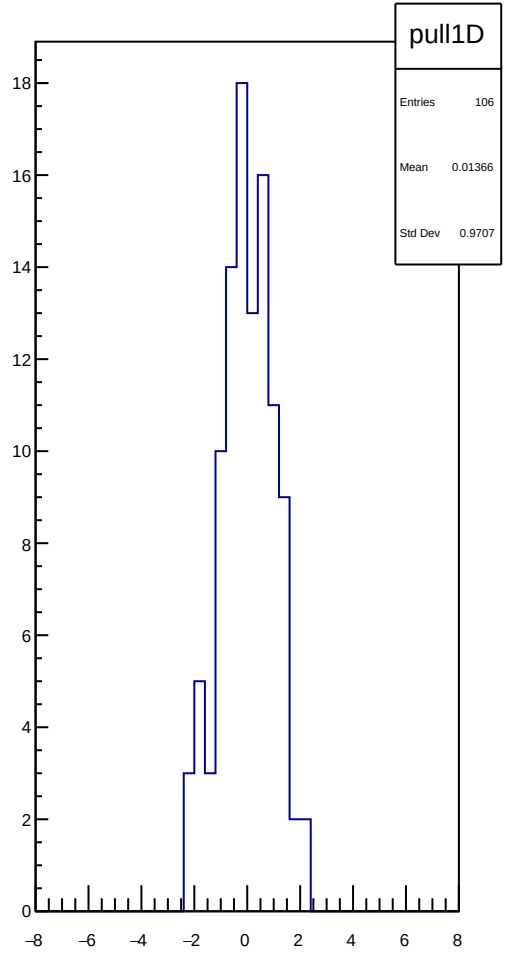

eigen_dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 2268 / 104
p0 2200 ± 1.551
2700
2600
2500
2400
2300
2200
2100

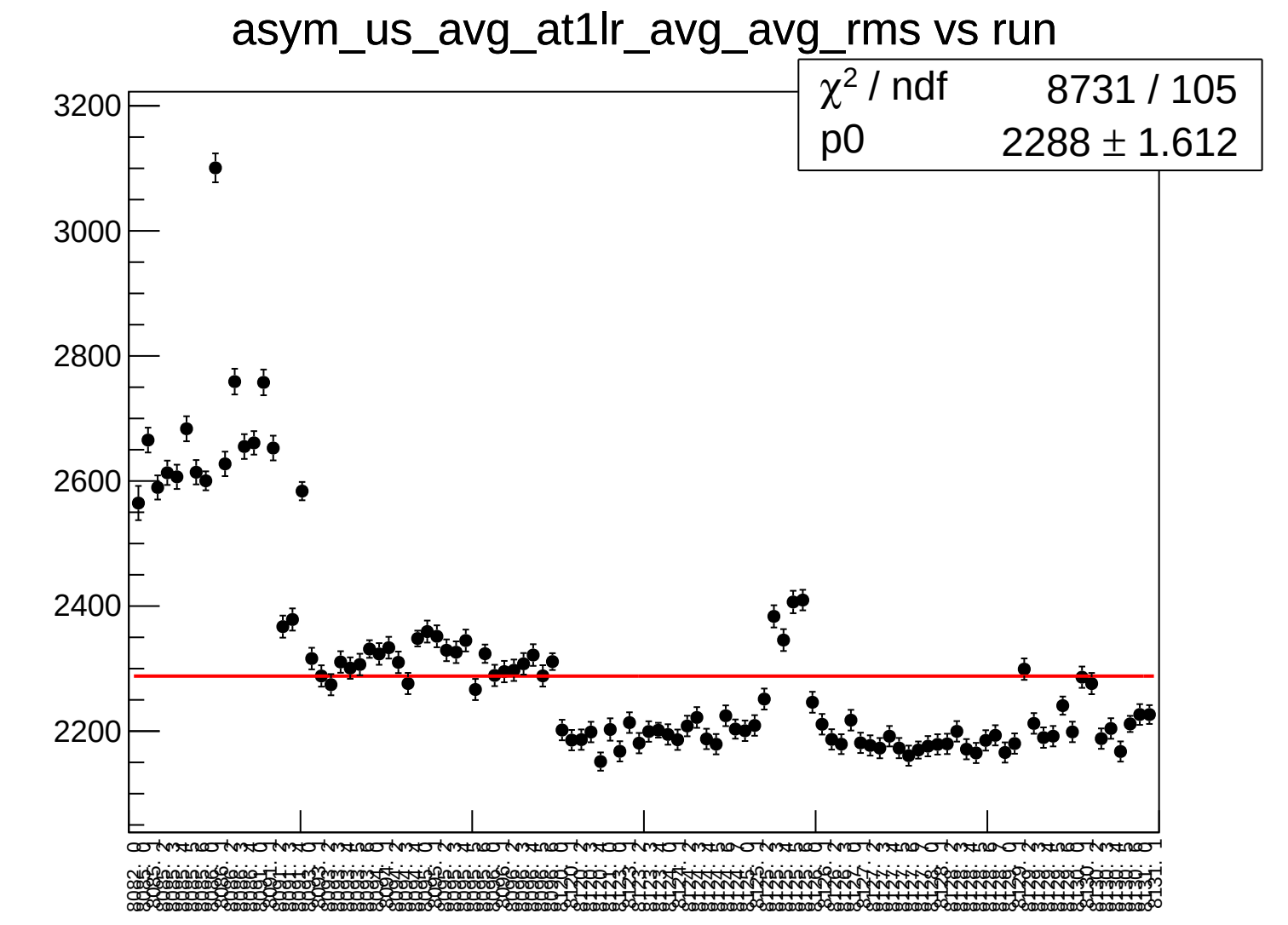

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_mean vs run
χ² / ndf 107.1 / 105
p0 417.2 ± 427.5
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 106
Mean −0.654
Std Dev 0
2
1
0
−1
−2

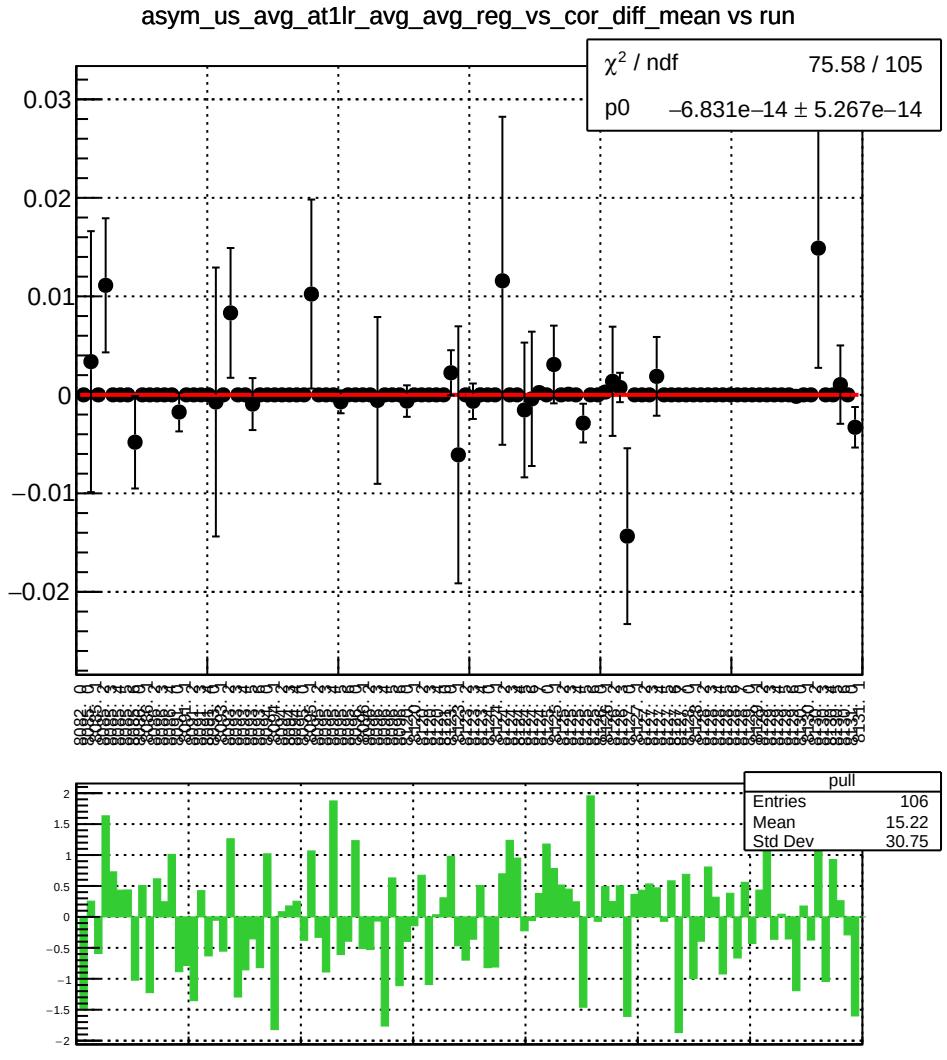

pull1D
Entries 106
Mean 0.05473
Std Dev 1.004
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

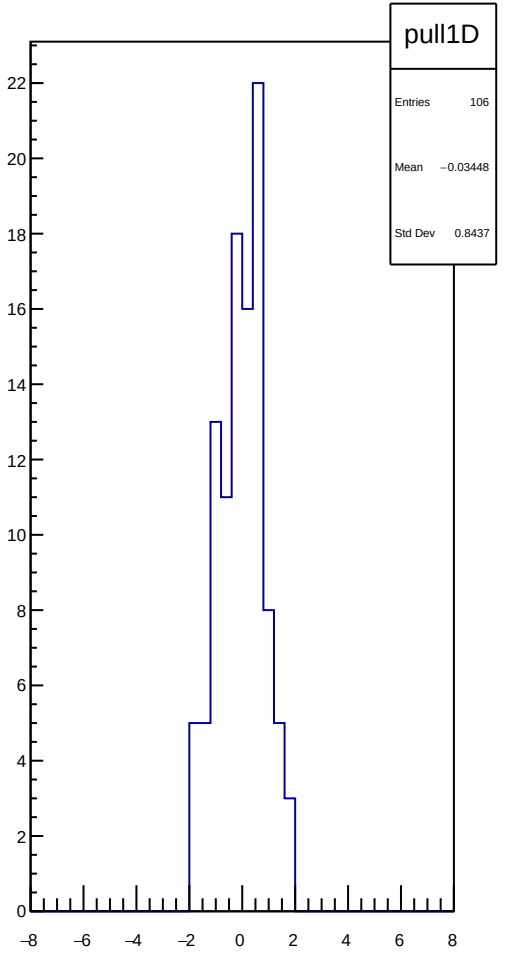

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.684e+05 / 105
p0 411.7 ± 0.3023
2500
2000
1500
1000
500

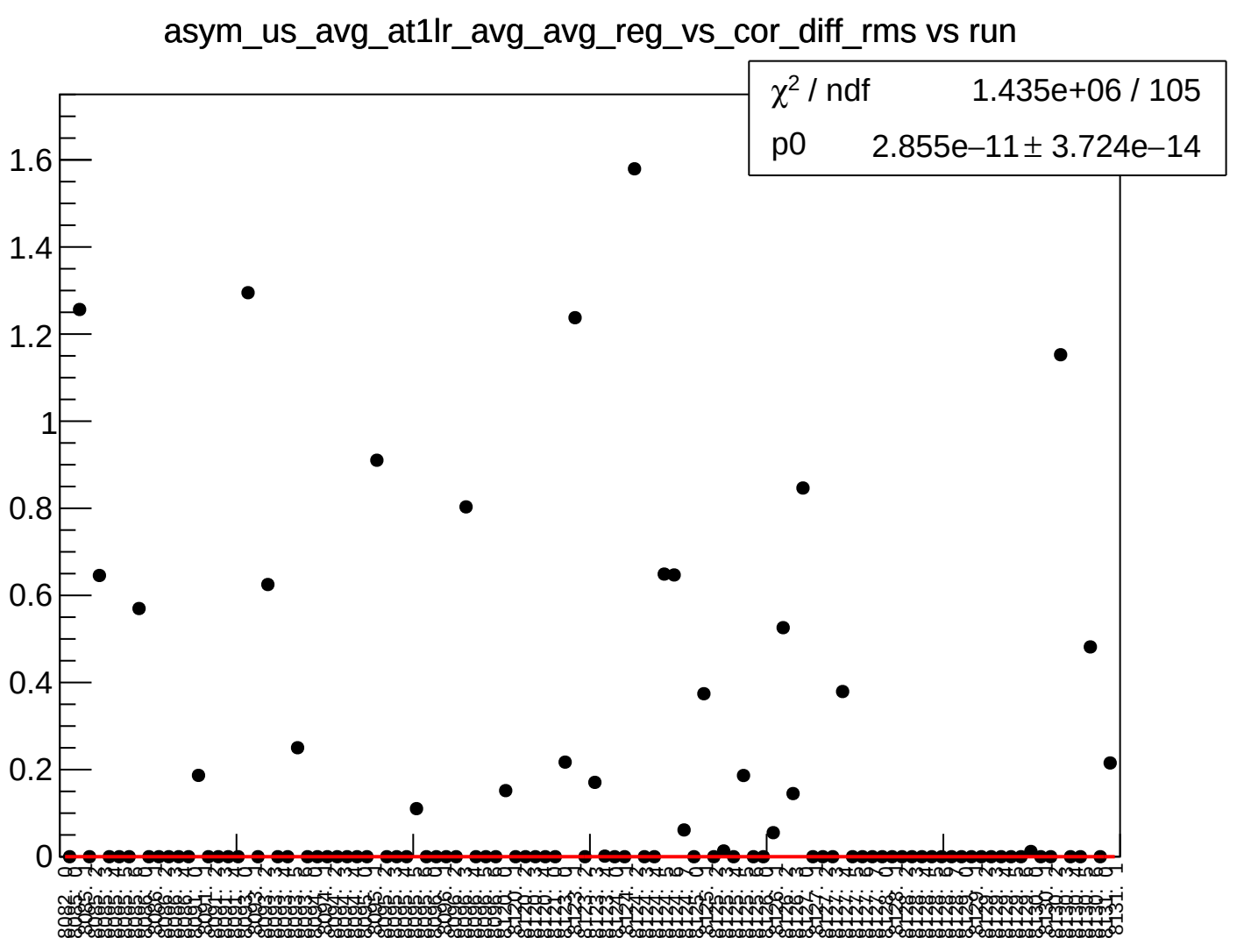

asym_us_avg_at1lr_avg_avg_mean vs run
χ² / ndf 99.9 / 105
p0 −4647 ± 2280
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 106
Mean −74.92
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

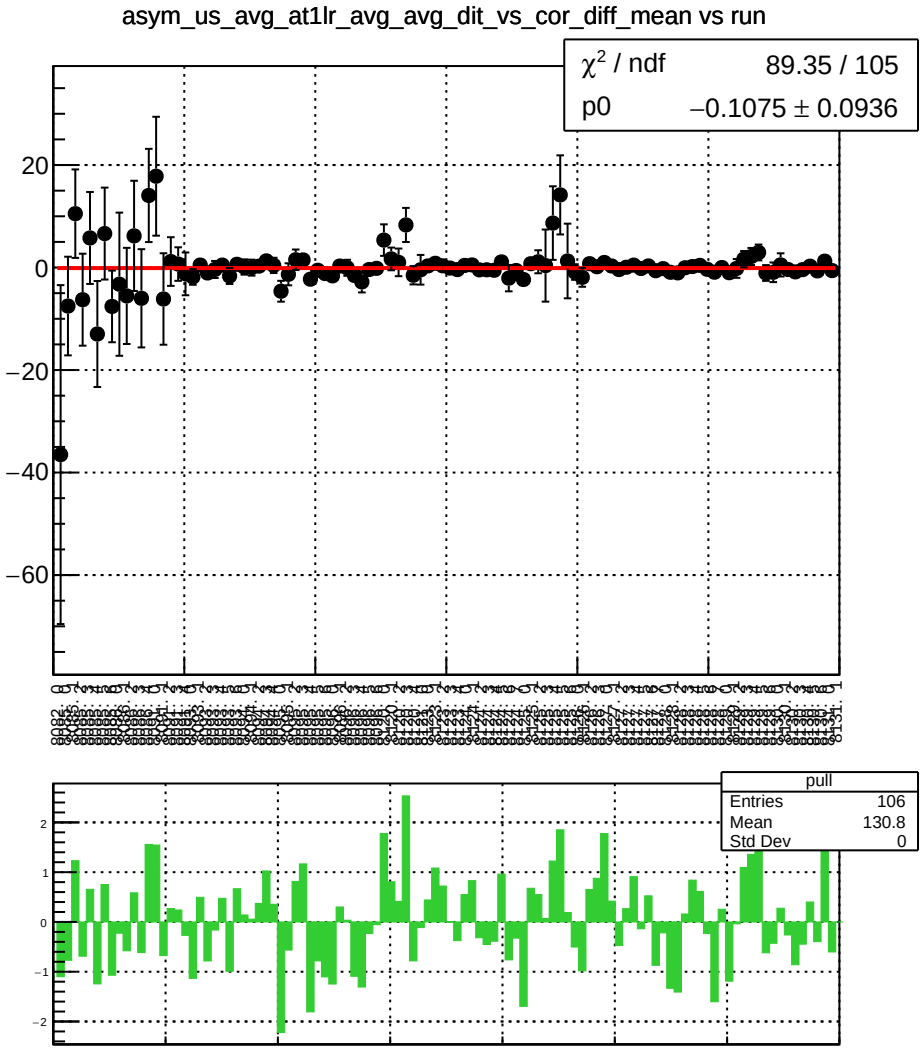

pull1D
Entries 106
Mean 0.01366
Std Dev 0.9707
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

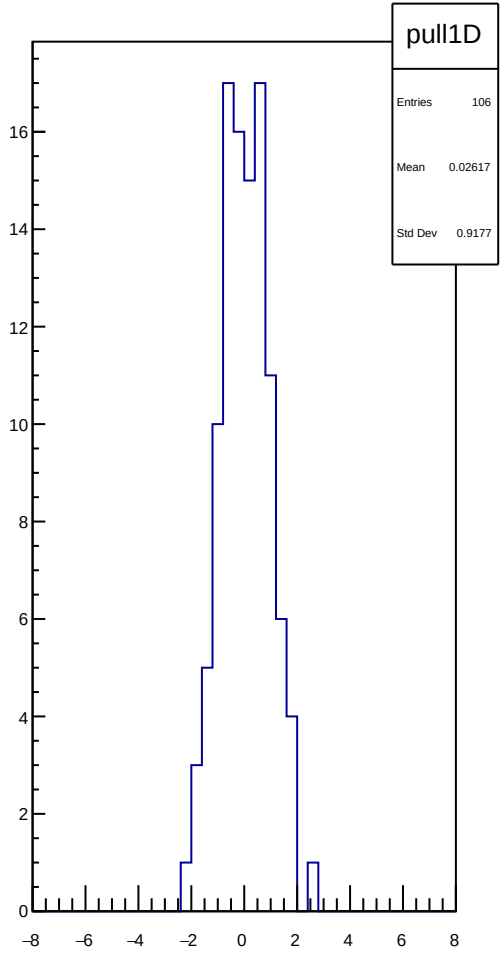

asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 8731 / 105
p0 2288 ± 1.612
3200
3000
2800
2600
2400
2200

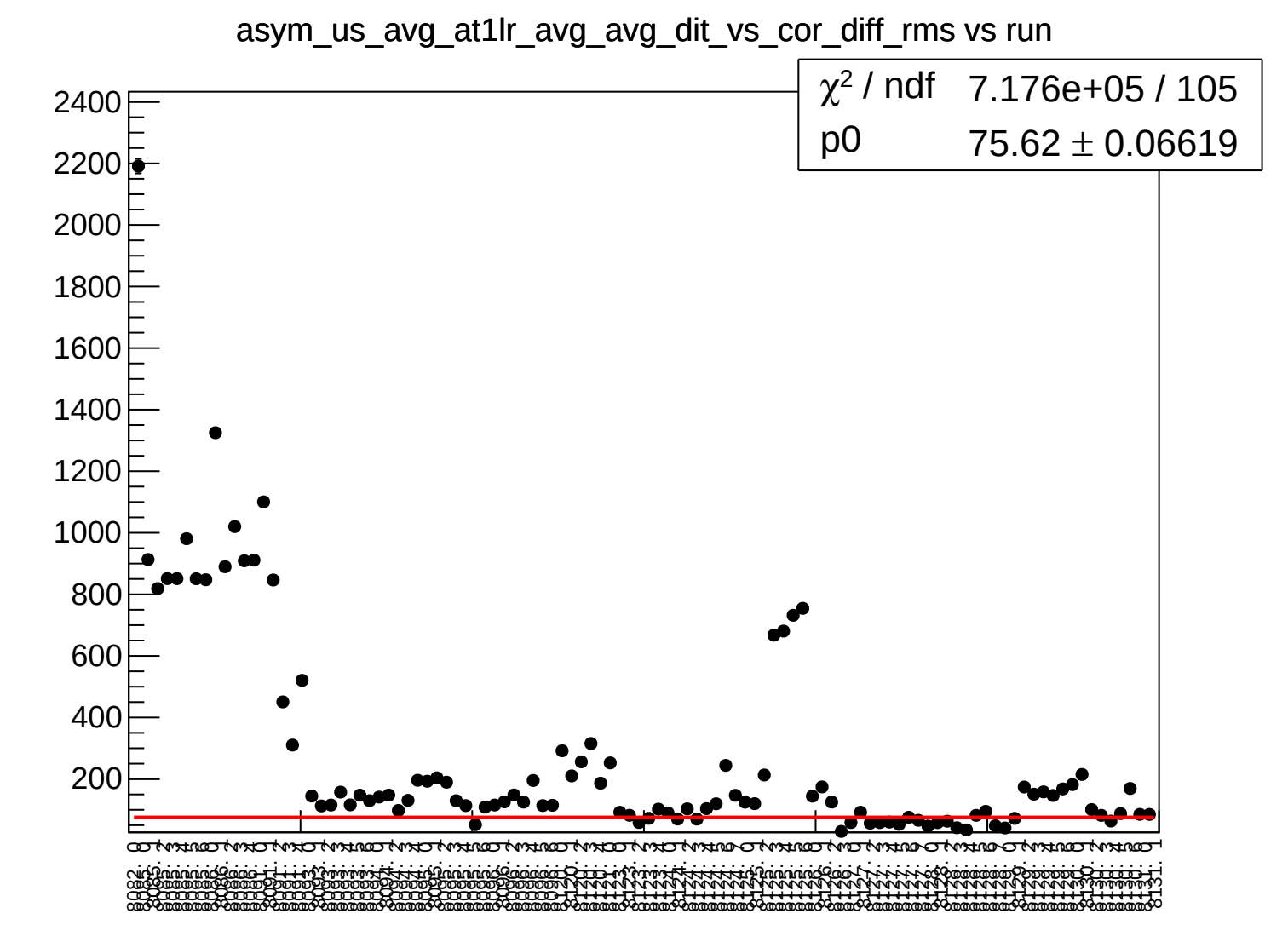

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 75.58 / 105
p0 −6.831e−14 ± 5.267e−14
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 106
Mean 15.22
Std Dev 30.75
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

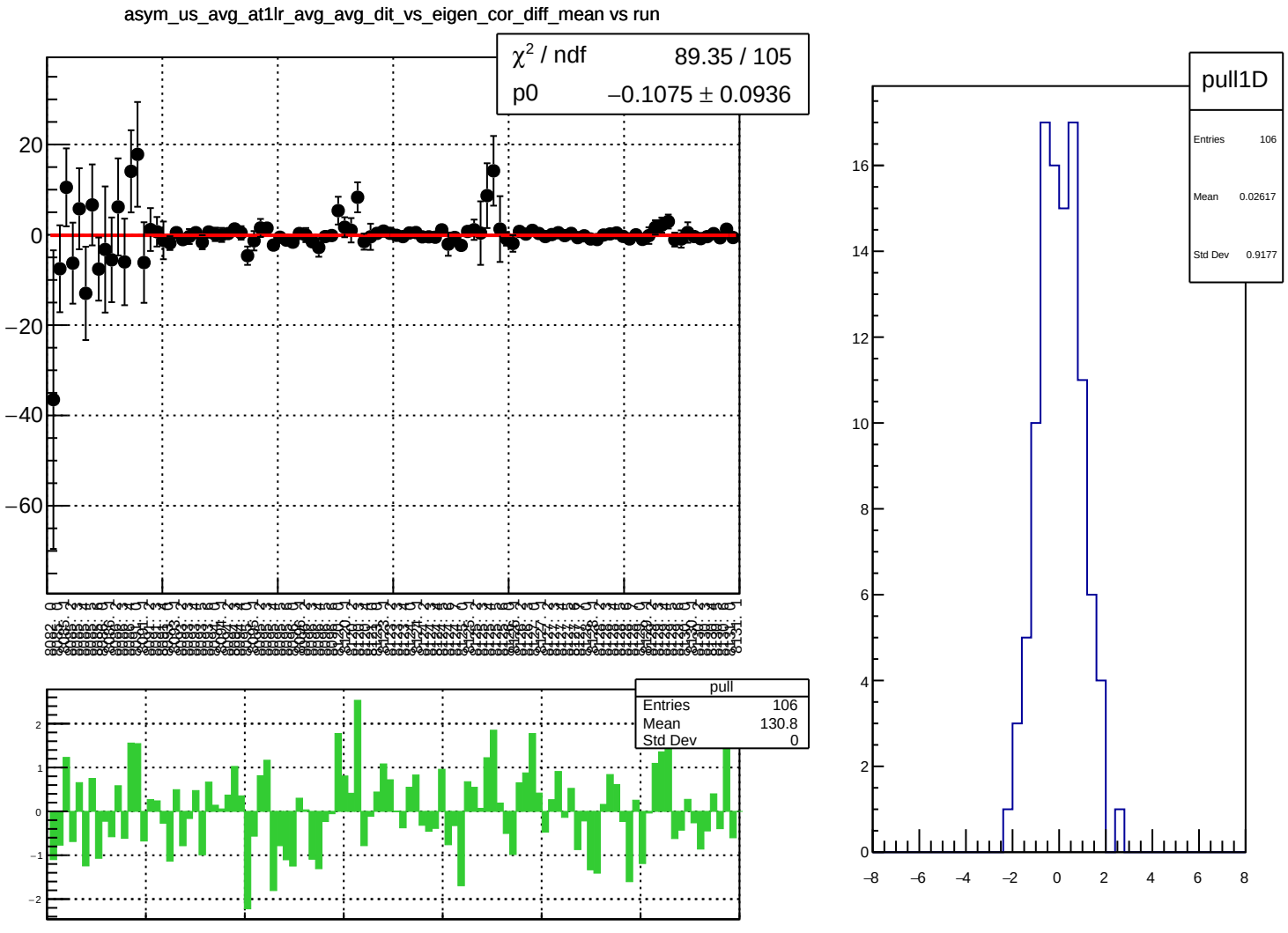

pull1D
Entries 106
Mean −0.03448
Std Dev 0.8437
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

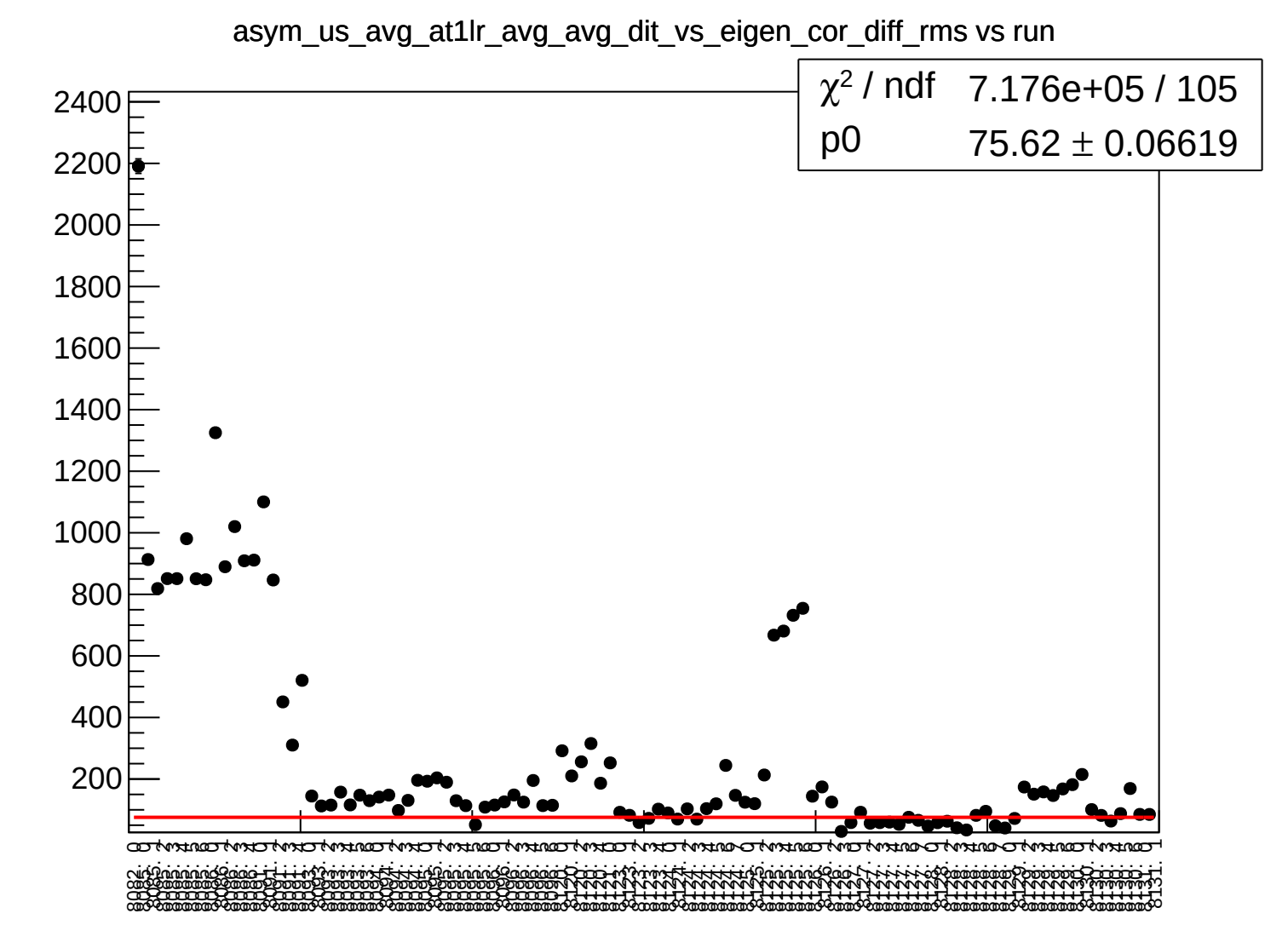

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.435e+06 / 105
p0 2.855e−11 ± 3.724e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

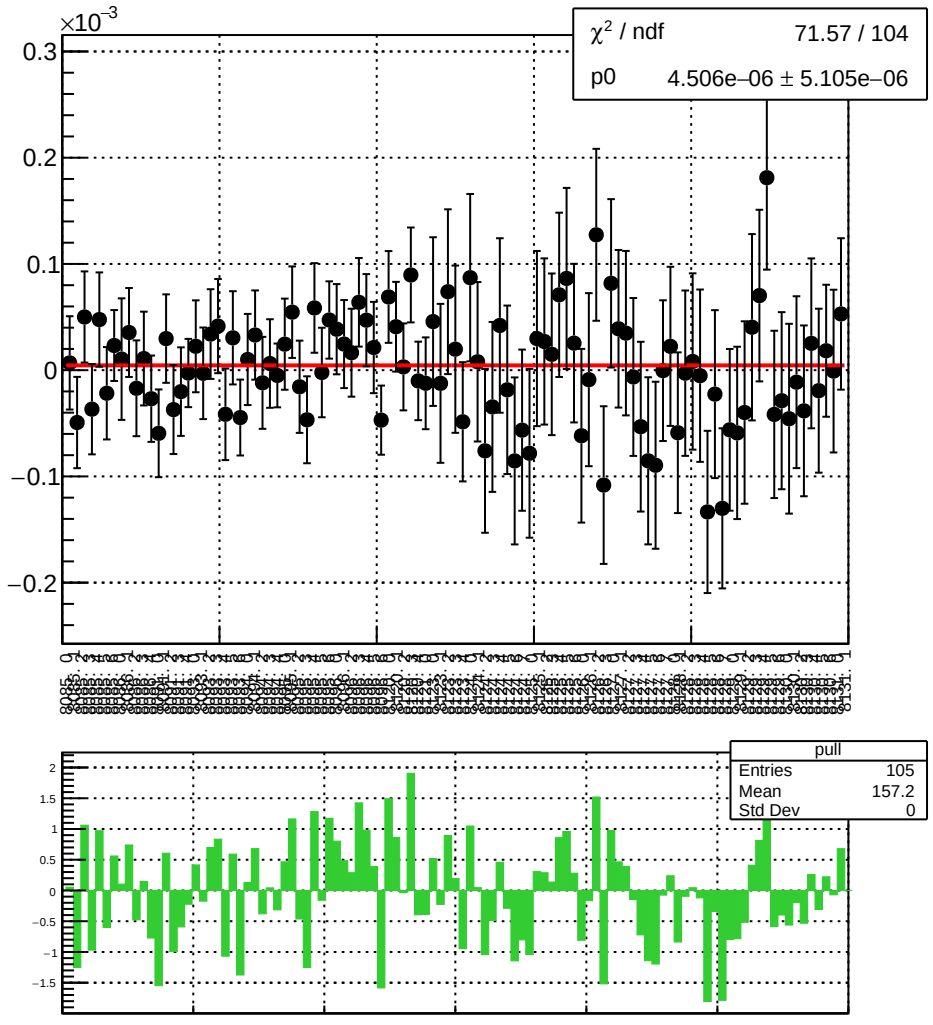

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 89.35 / 105
p0 −0.1075 ± 0.0936
20
0
−20
−40
−60
pull
Entries 106
Mean 130.8
Std Dev 0
2
1
0
−1
−2

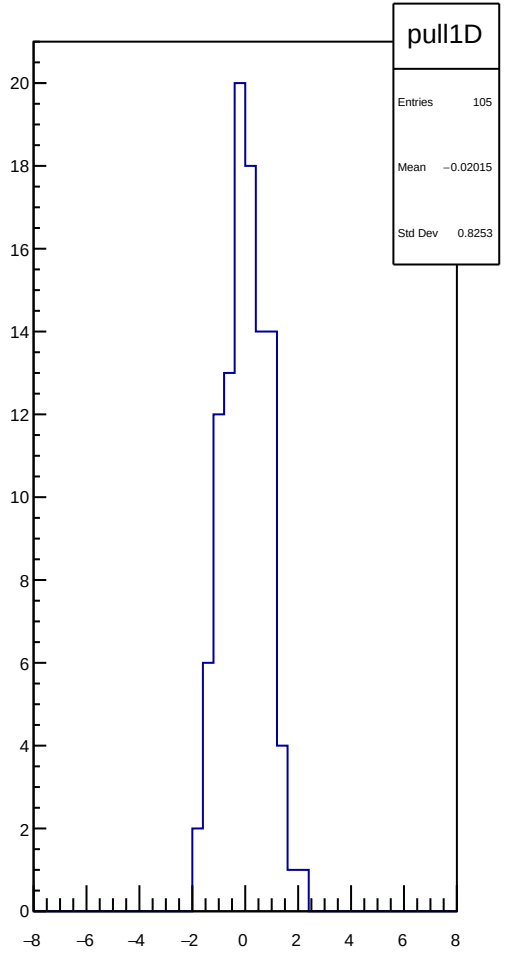

pull1D
Entries 106
Mean 0.02617
Std Dev 0.9177
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

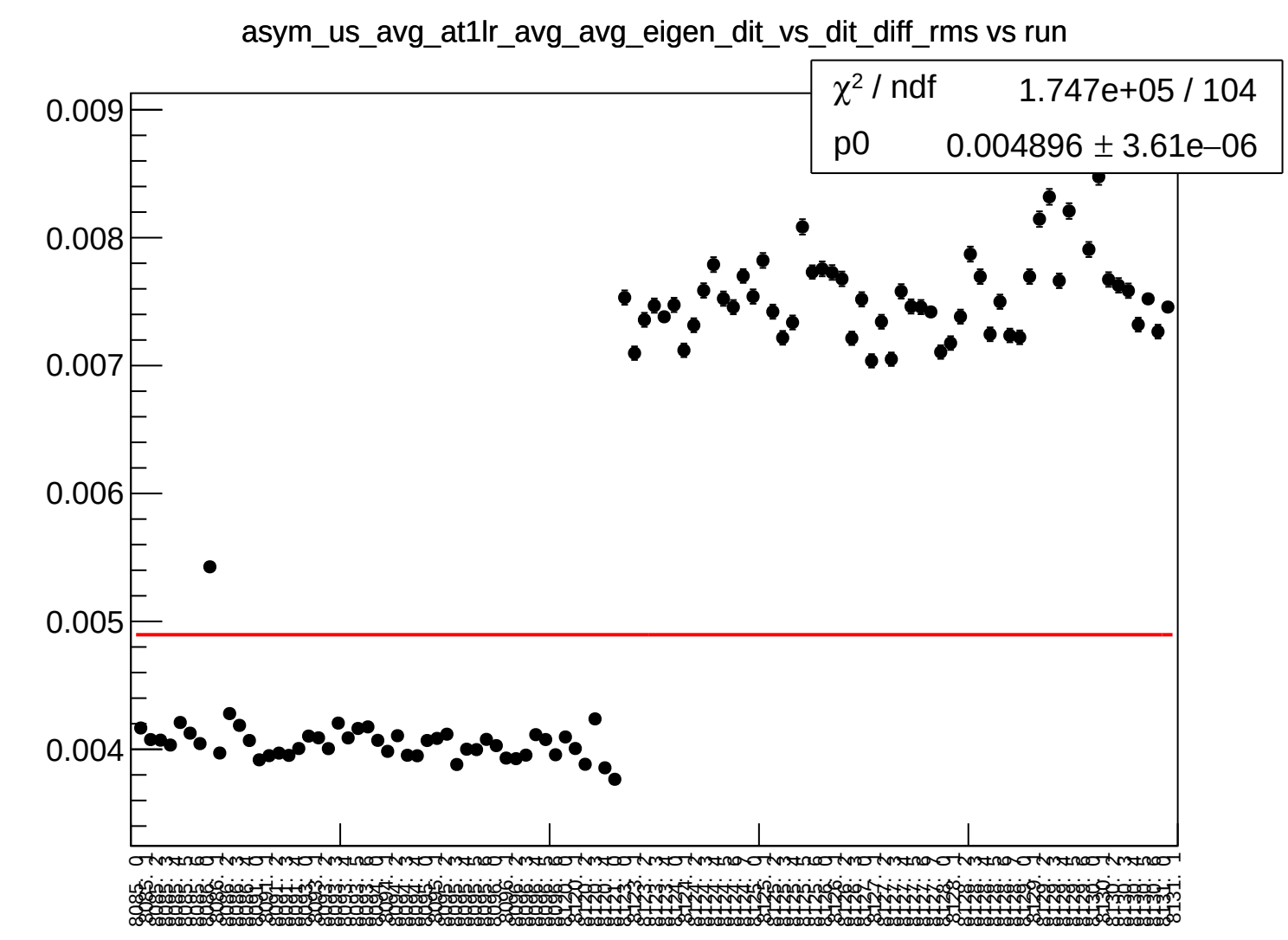

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.176e+05 / 105
p0 75.62 ± 0.06619
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

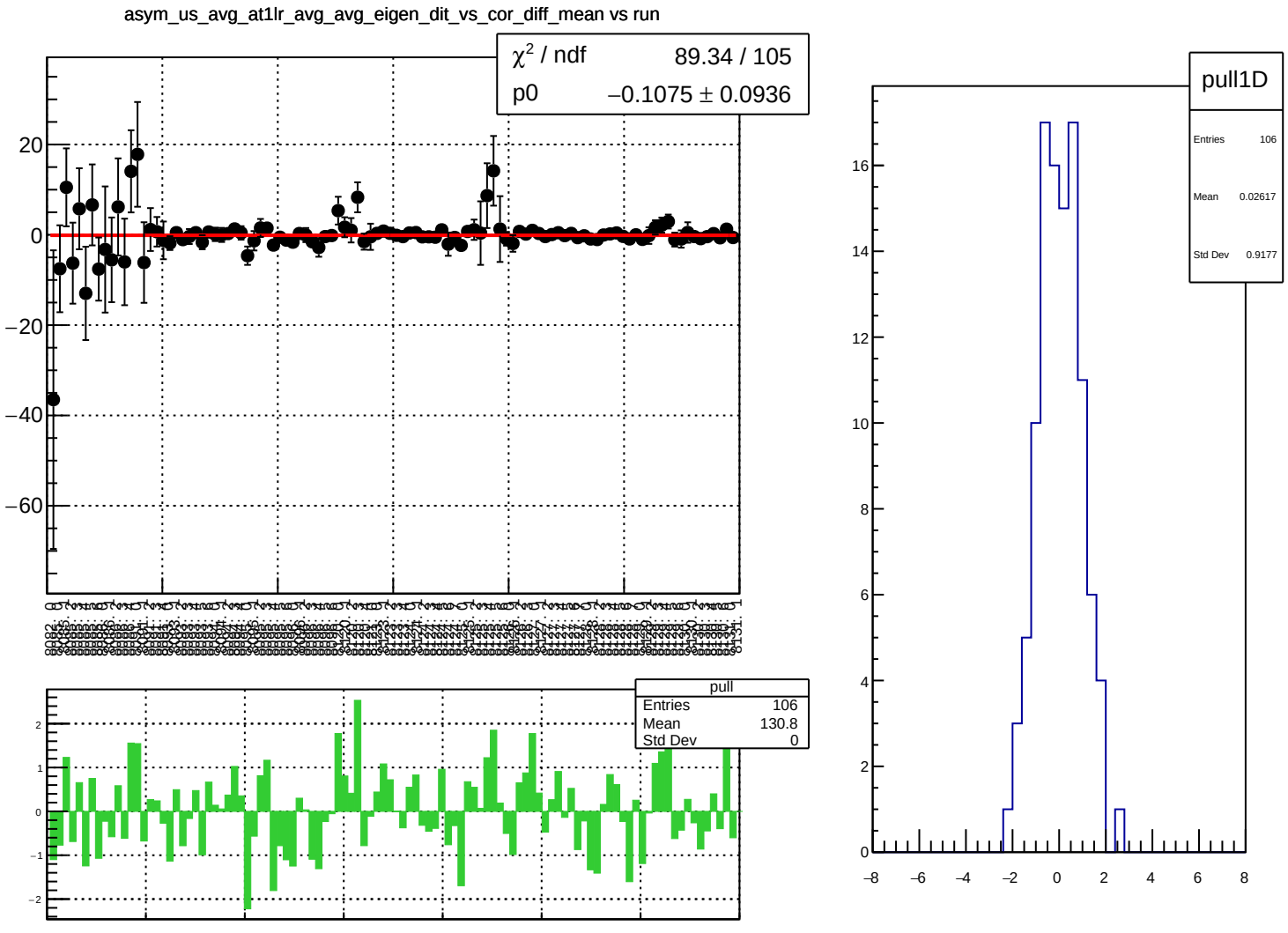

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.35 / 105
p0 −0.1075 ± 0.0936
20
0
−20
−40
−60
pull
Entries 106
Mean 130.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 106
Mean 0.02617
Std Dev 0.9177
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

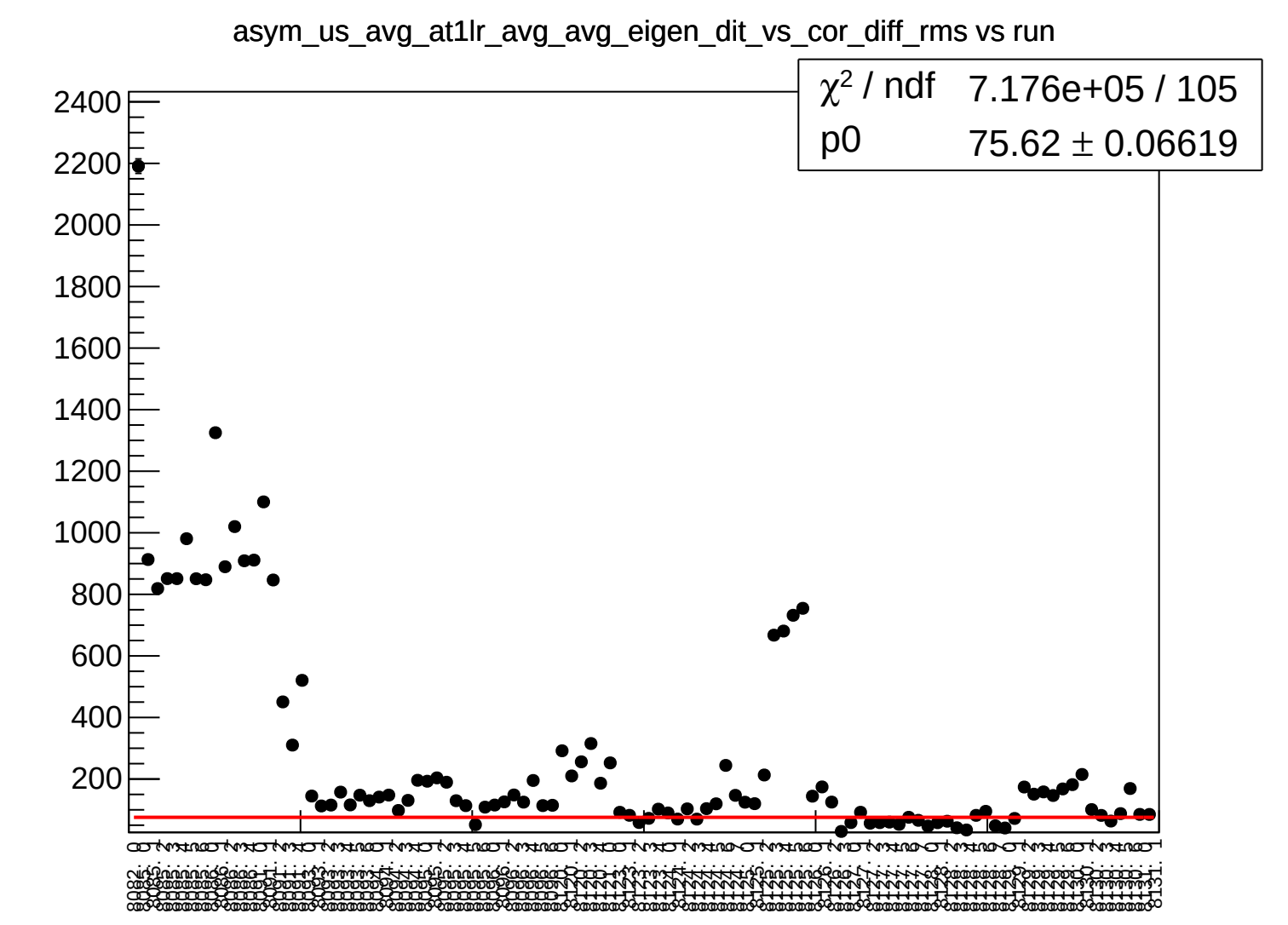

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.176e+05 / 105
p0 75.62 ± 0.06619
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

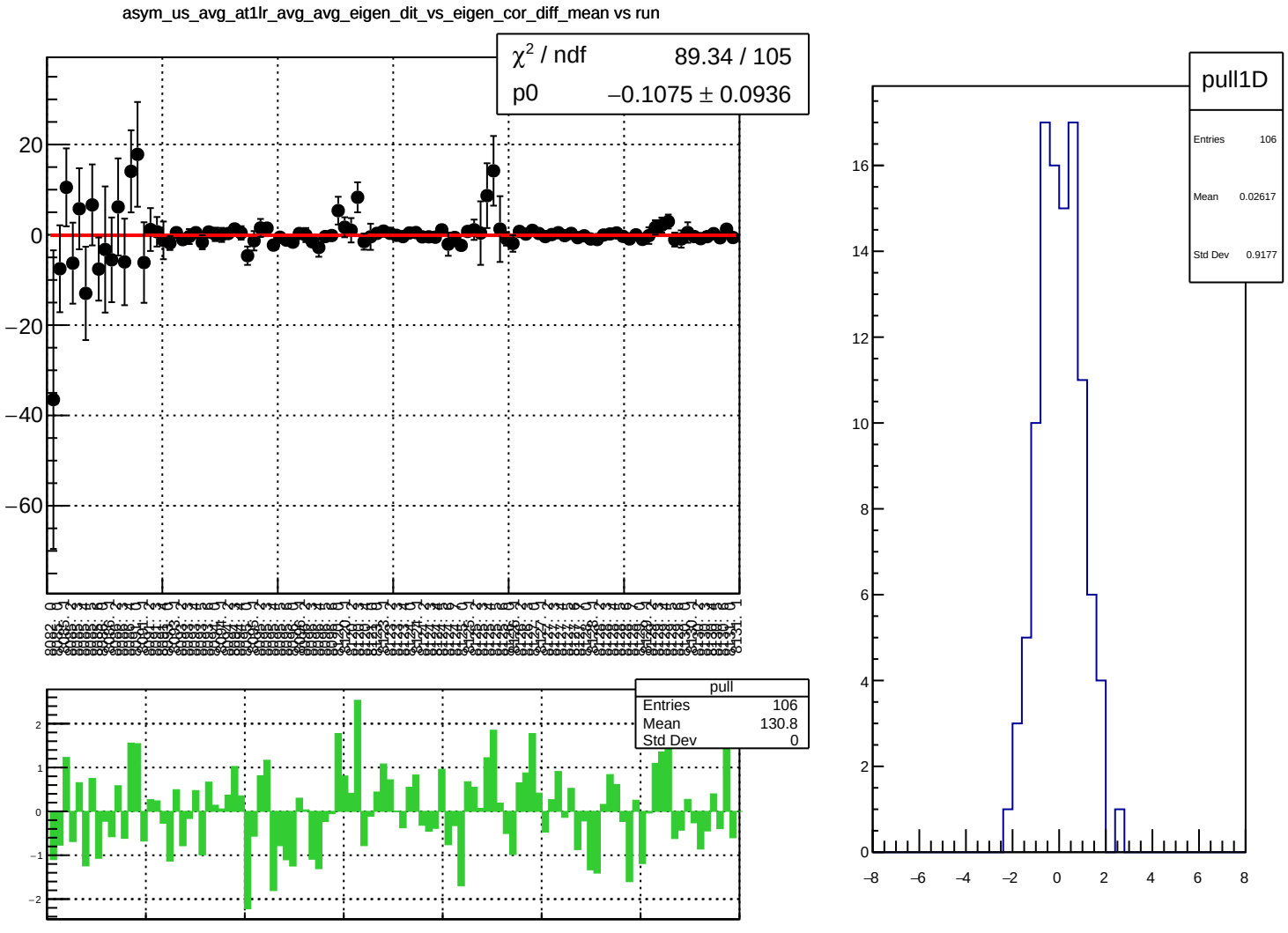

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 71.57 / 104
p0 4.506e−06 ± 5.105e−06
0.3
0.2
0.1
0
−0.1
−0.2
pull
Entries 105
Mean 157.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

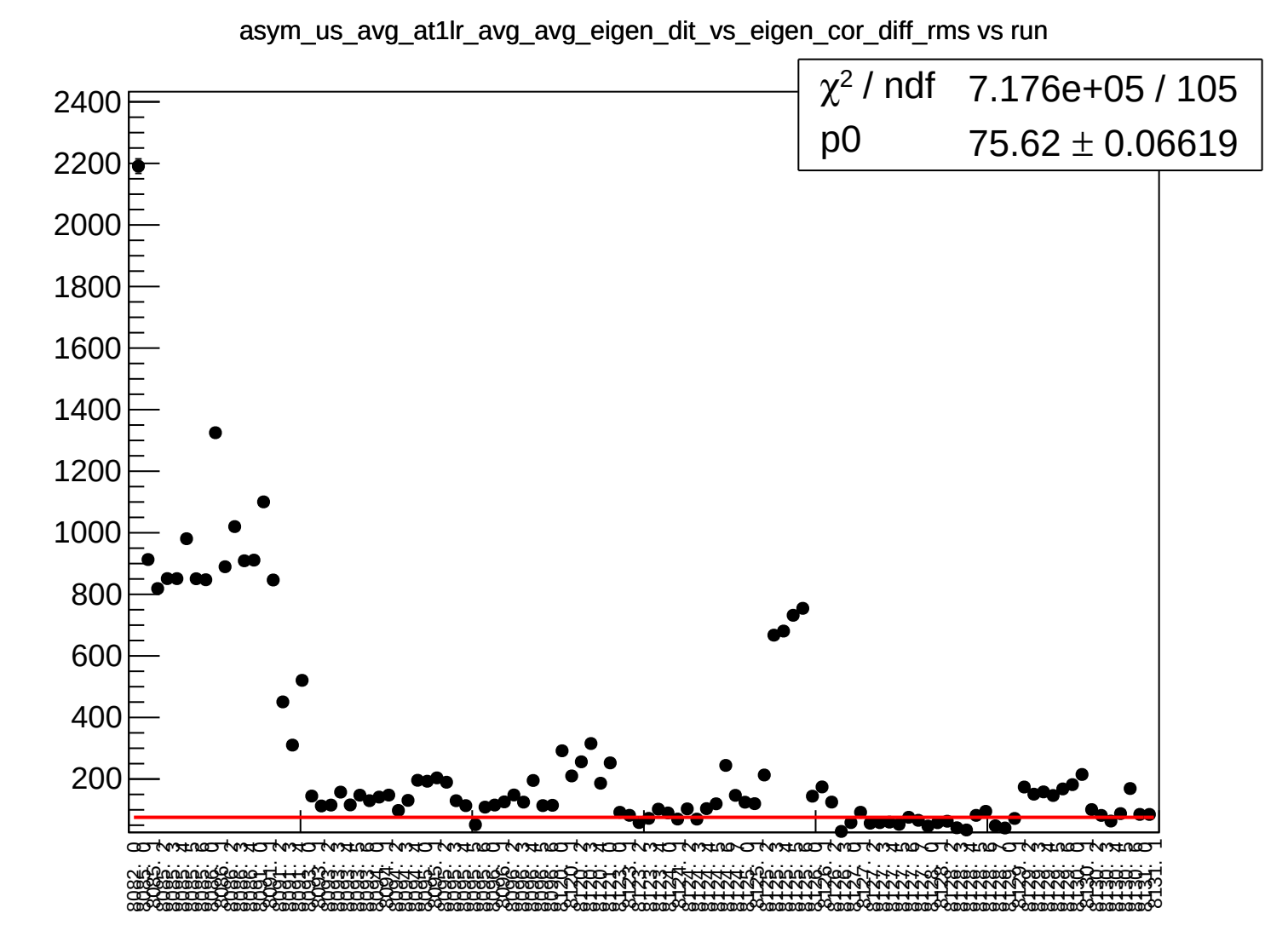

pull1D
Entries 105
Mean −0.02015
Std Dev 0.8253
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

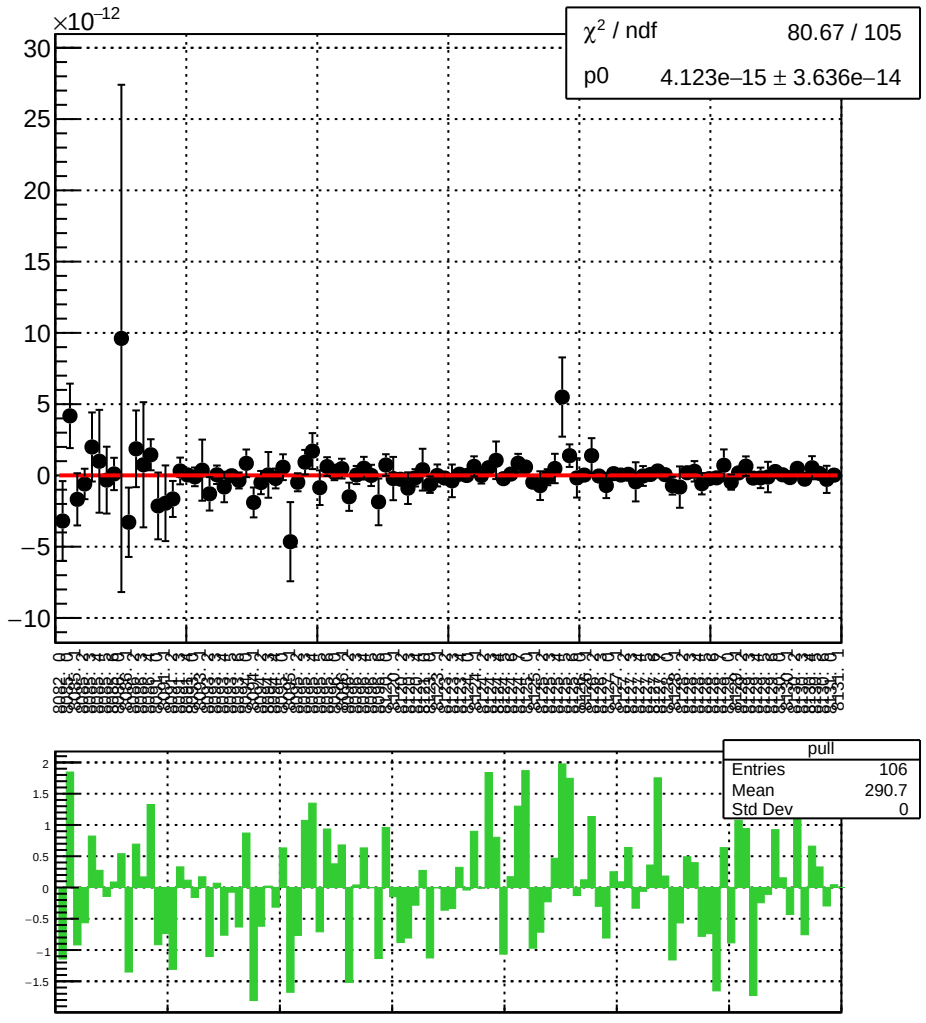

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.747e+05 / 104
p0 0.004896 ± 3.61e−06
0.009
0.008
0.007
0.006
0.005
0.004

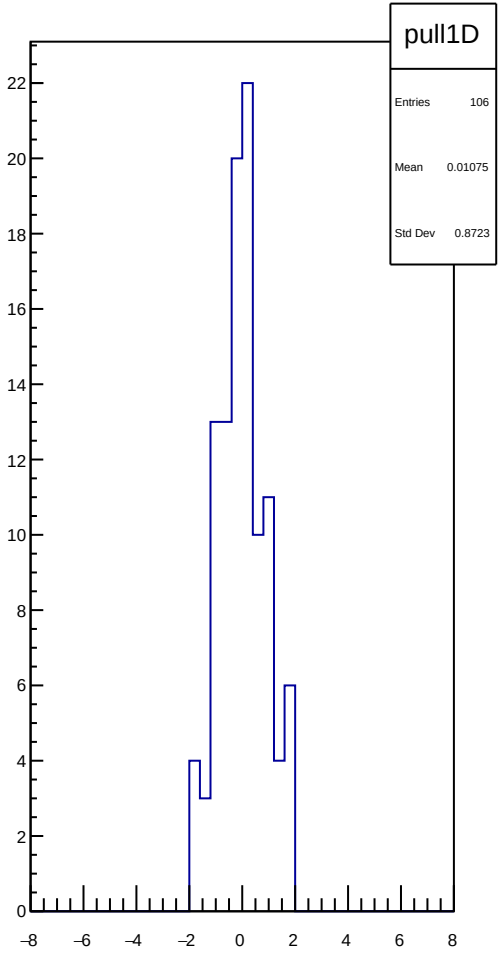

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.34 / 105
p0 −0.1075 ± 0.0936
20
0
−20
−40
−60
pull
Entries 106
Mean 130.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 106
Mean 0.02617
Std Dev 0.9177
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

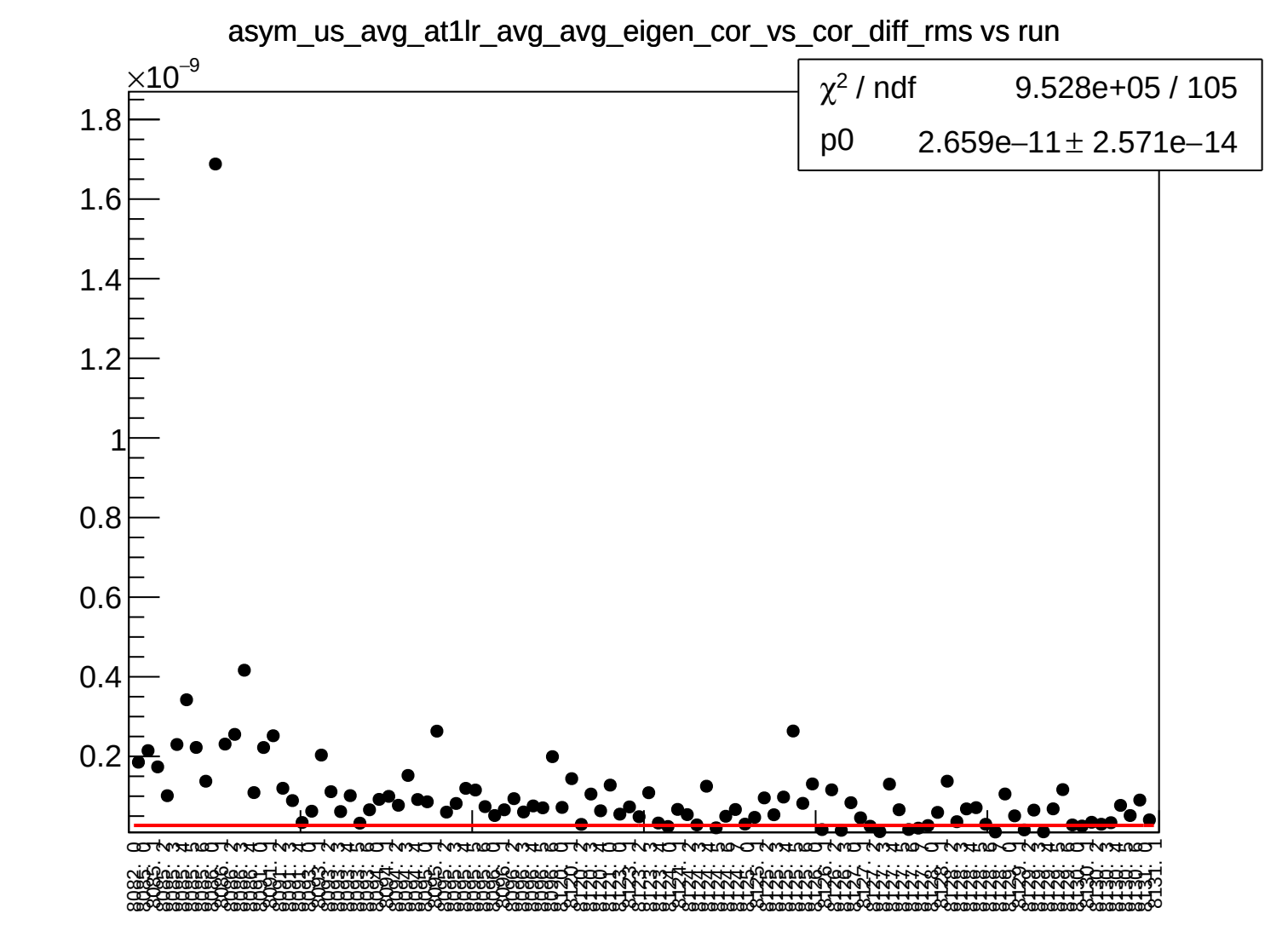

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.176e+05 / 105
p0 75.62 ± 0.06619
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

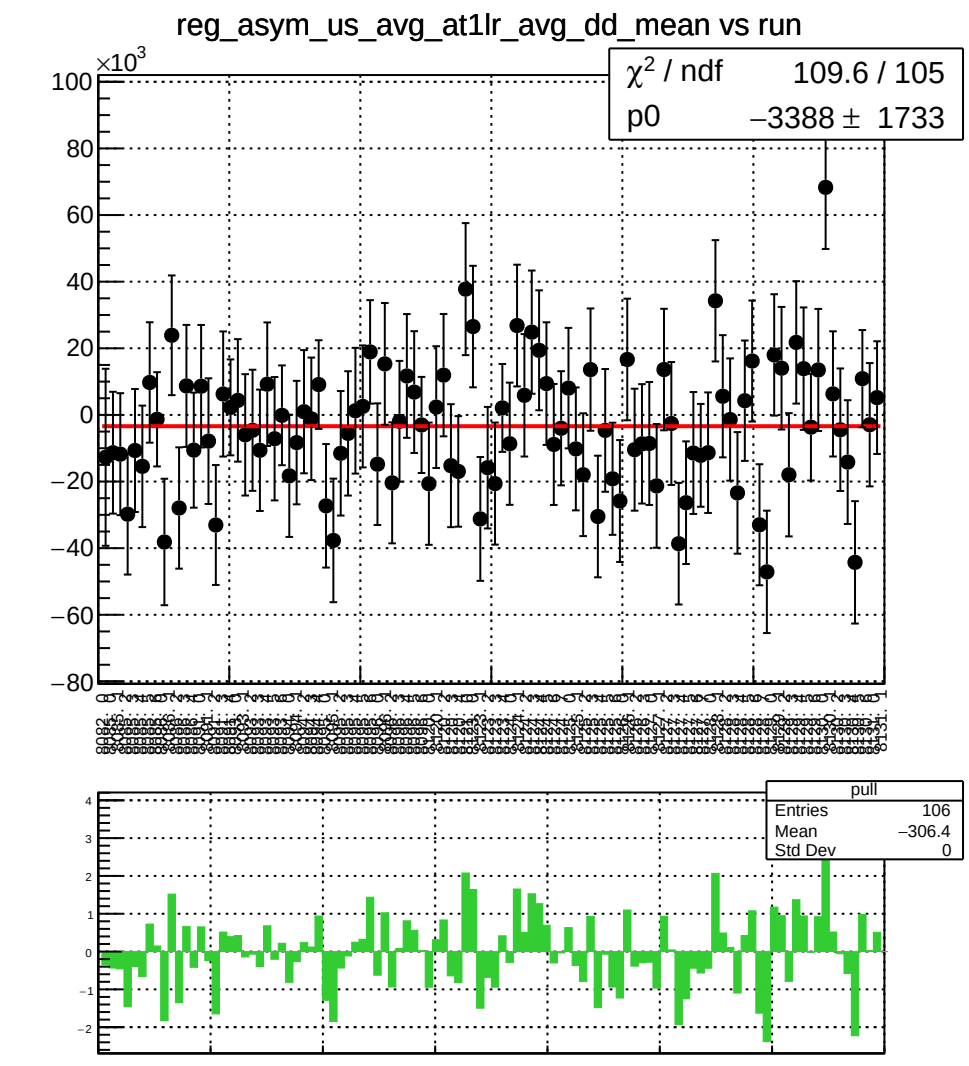

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.34 / 105
p0 −0.1075 ± 0.0936
20
0
−20
−40
−60
pull
Entries 106
Mean 130.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 106
Mean 0.02617
Std Dev 0.9177
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

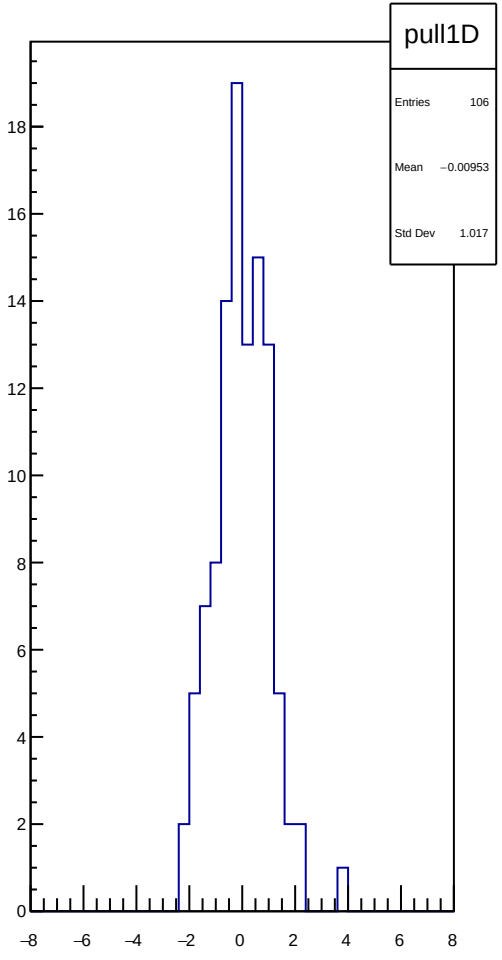

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.176e+05 / 105
p0 75.62 ± 0.06619
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

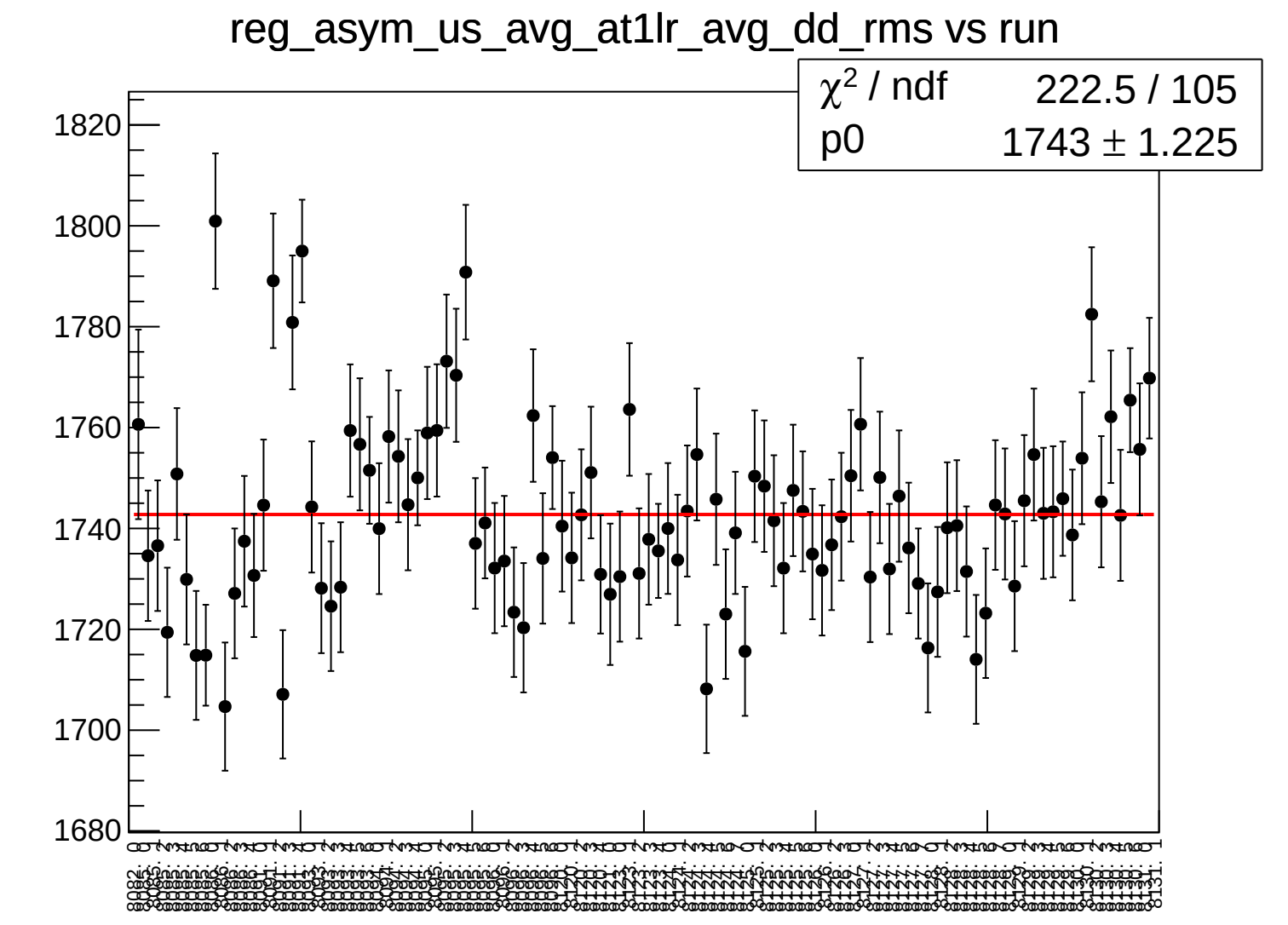

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.67 / 105
p0 4.123e−15 ± 3.636e−14
pull
Entries 106
Mean 290.7
Std Dev 0

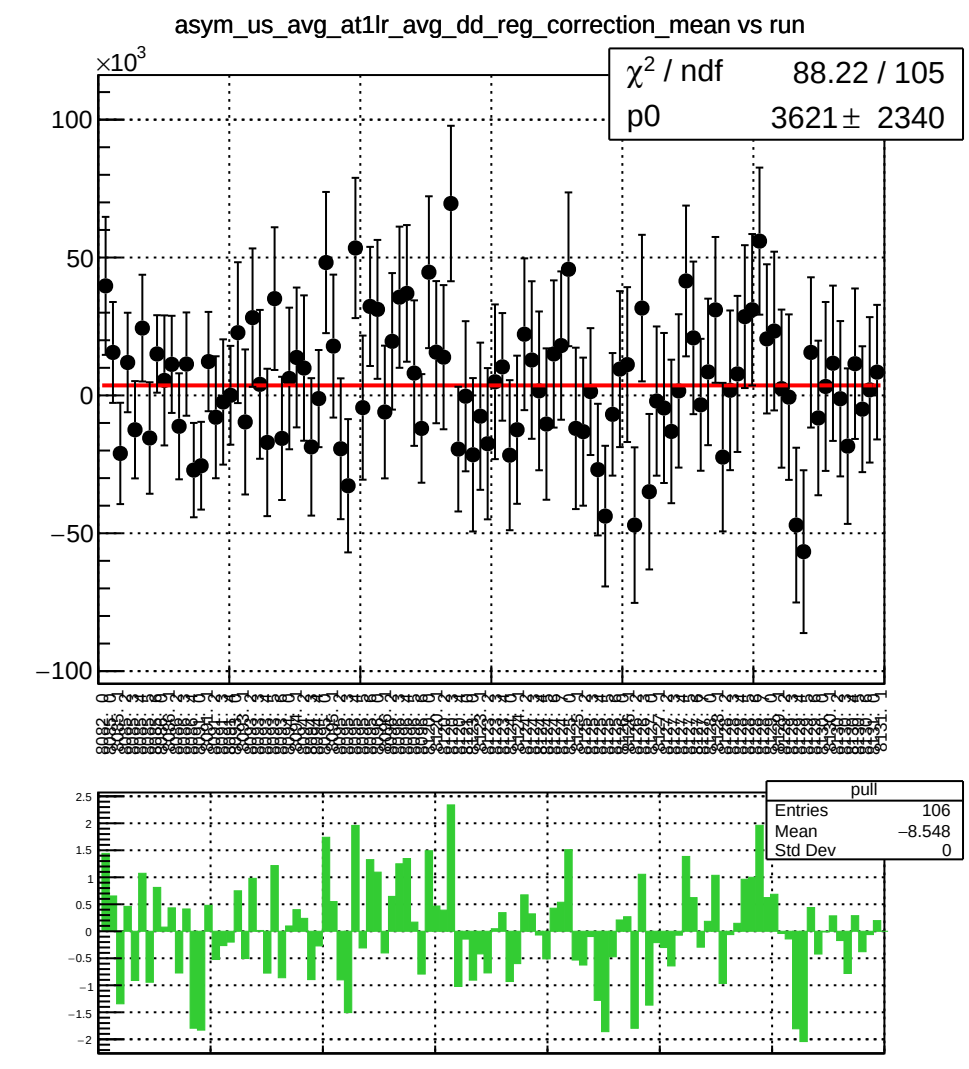

pull1D
Entries 106
Mean 0.01075
Std Dev 0.8723

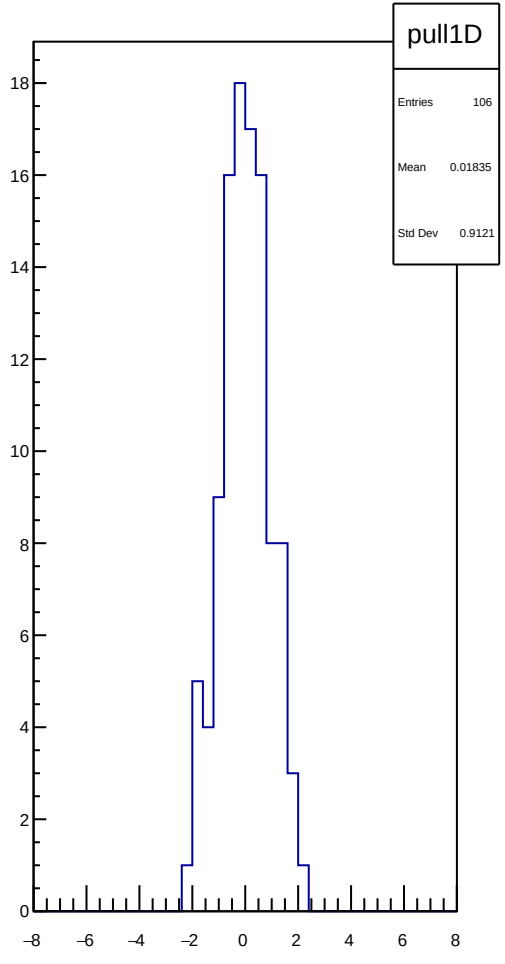

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
χ² / ndf 9.528e+05 / 105
p0 2.659e−11 ± 2.571e−14

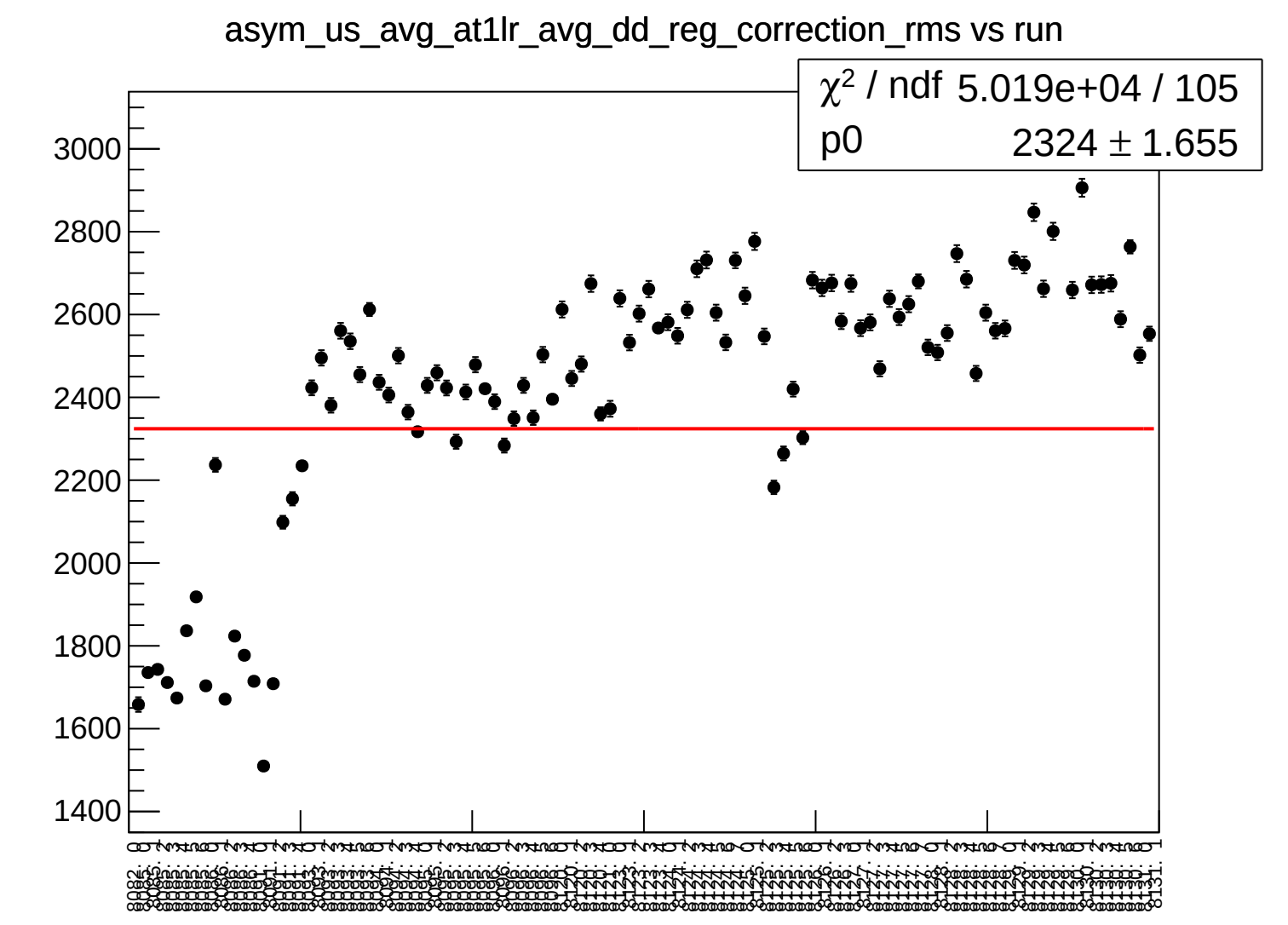

reg_asym_us_avg_at1lr_avg_dd_mean vs run
×10^3
χ^2 / ndf 109.6 / 105
p0 −3388 ± 1733
pull
Entries 106
Mean −306.4
Std Dev 0

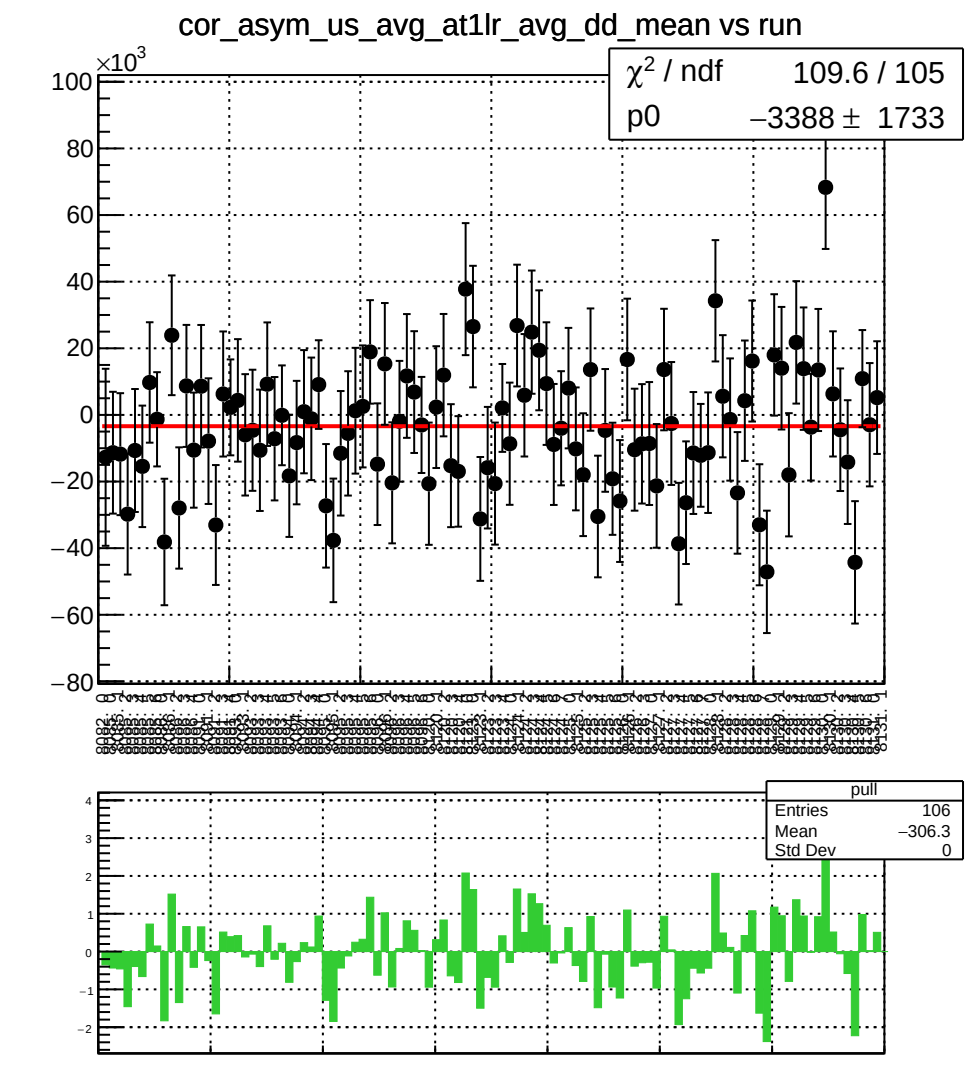

pull1D
Entries 106
Mean −0.00953
Std Dev 1.017

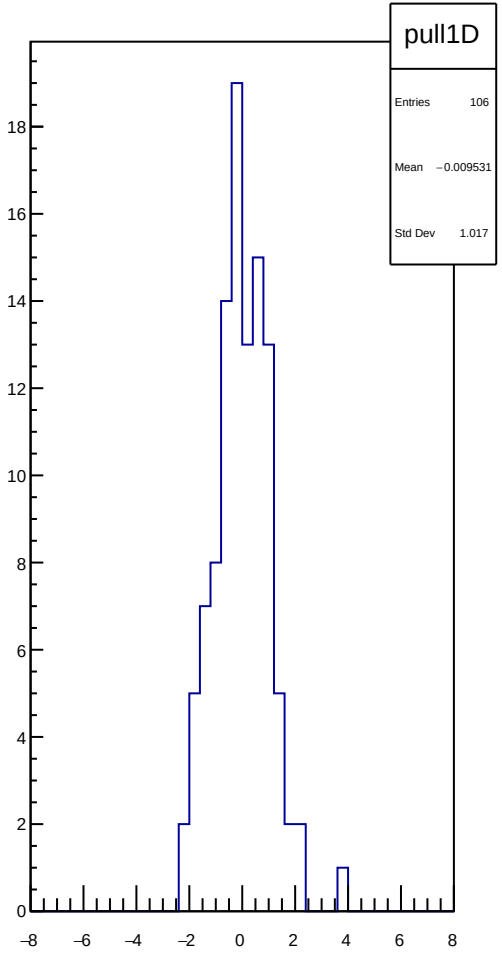

reg_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 222.5 / 105
p0 1743 ± 1.225
1820
1800
1780
1760
1740
1720
1700
1680

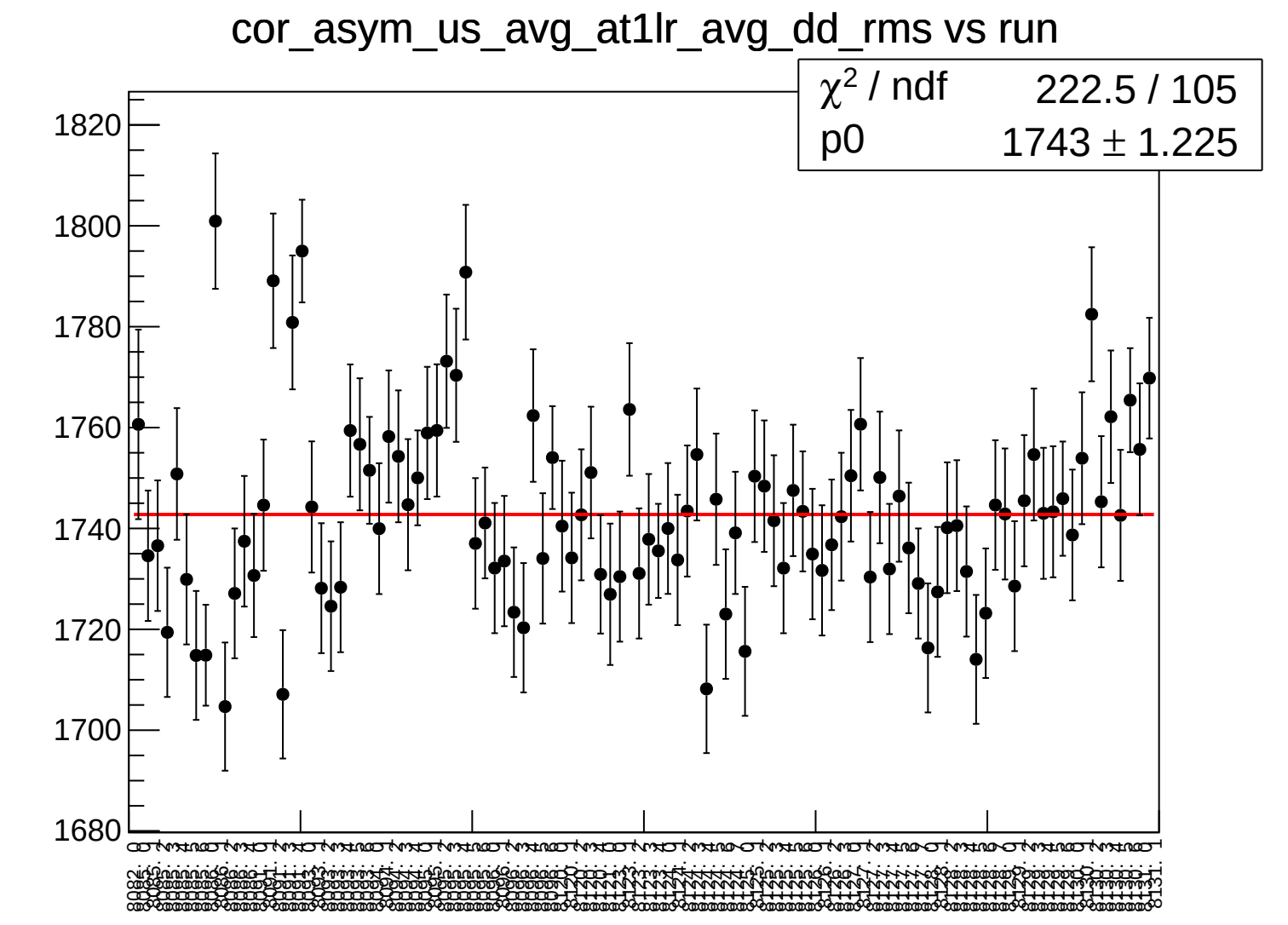

asym_us_avg_at1lr_avg_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 88.22 / 105
p0 3621 ± 2340
100
50
0
−50
−100
pull
Entries 106
Mean −8.548
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

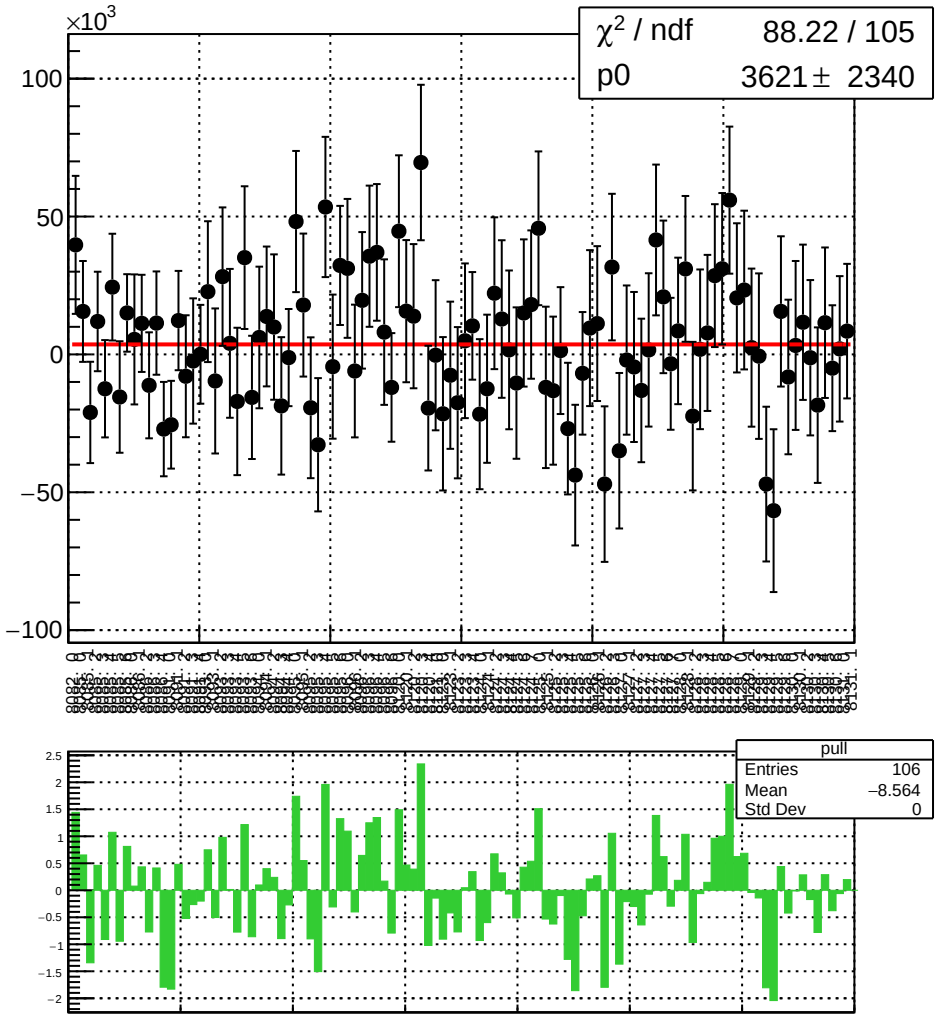

pull1D
Entries 106
Mean 0.01835
Std Dev 0.9121
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

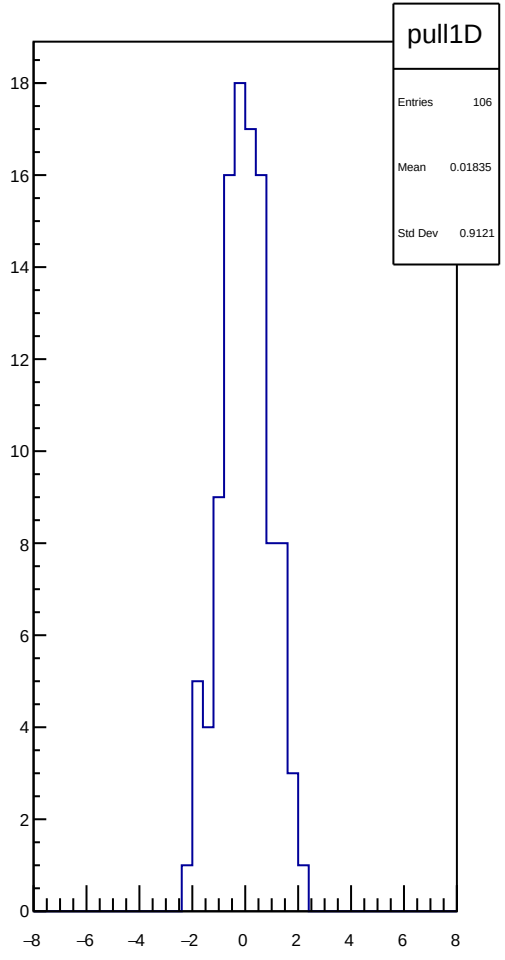

asym_us_avg_at1lr_avg_dd_reg_correction_rms vs run
χ² / ndf 5.019e+04 / 105
p0 2324 ± 1.655
3000
2800
2600
2400
2200
2000
1800
1600
1400

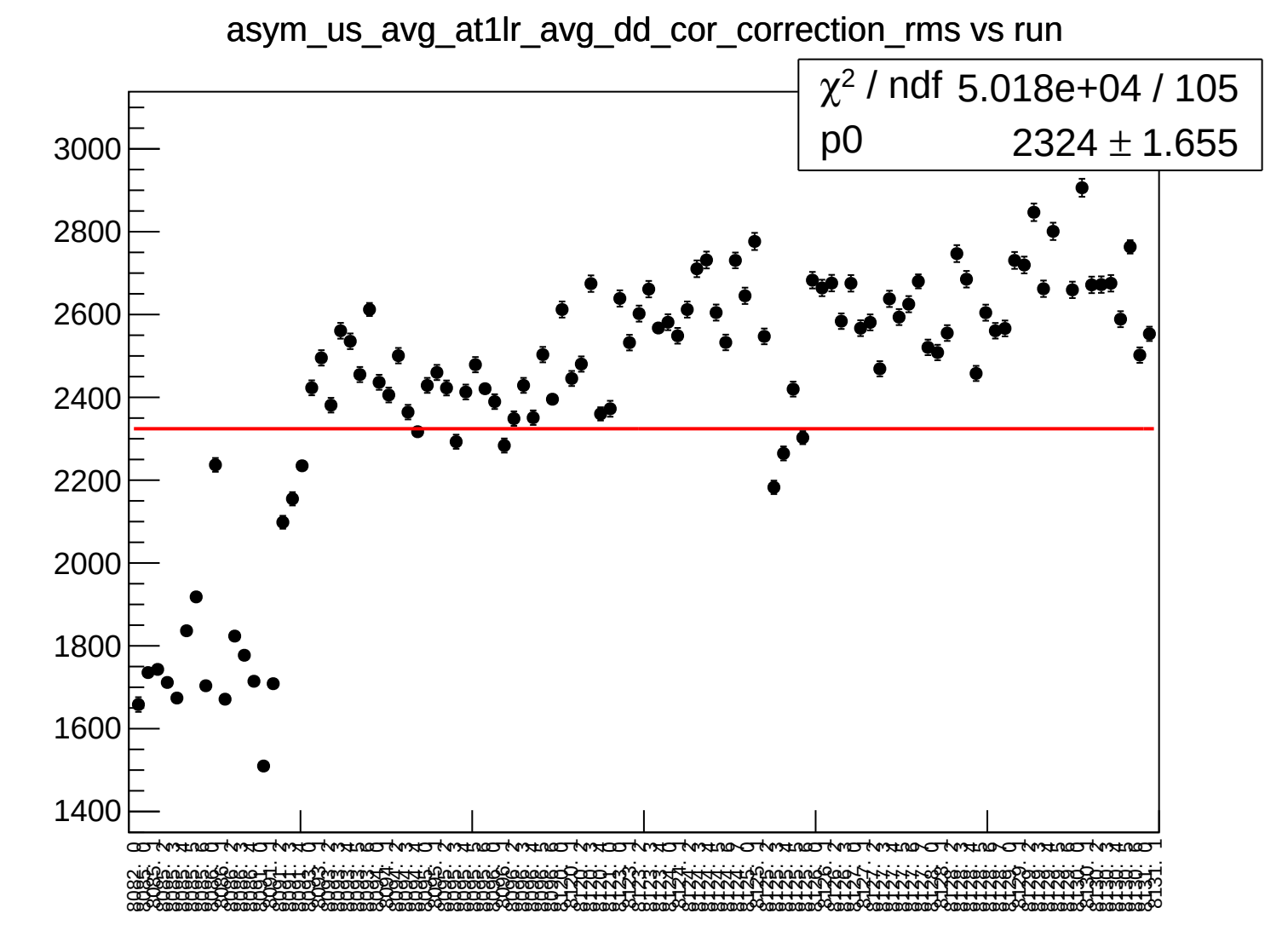

cor_asym_us_avg_at1lr_avg_dd_mean vs run
×10^3
χ^2 / ndf 109.6 / 105
p0 −3388 ± 1733
pull
Entries 106
Mean −306.3
Std Dev 0

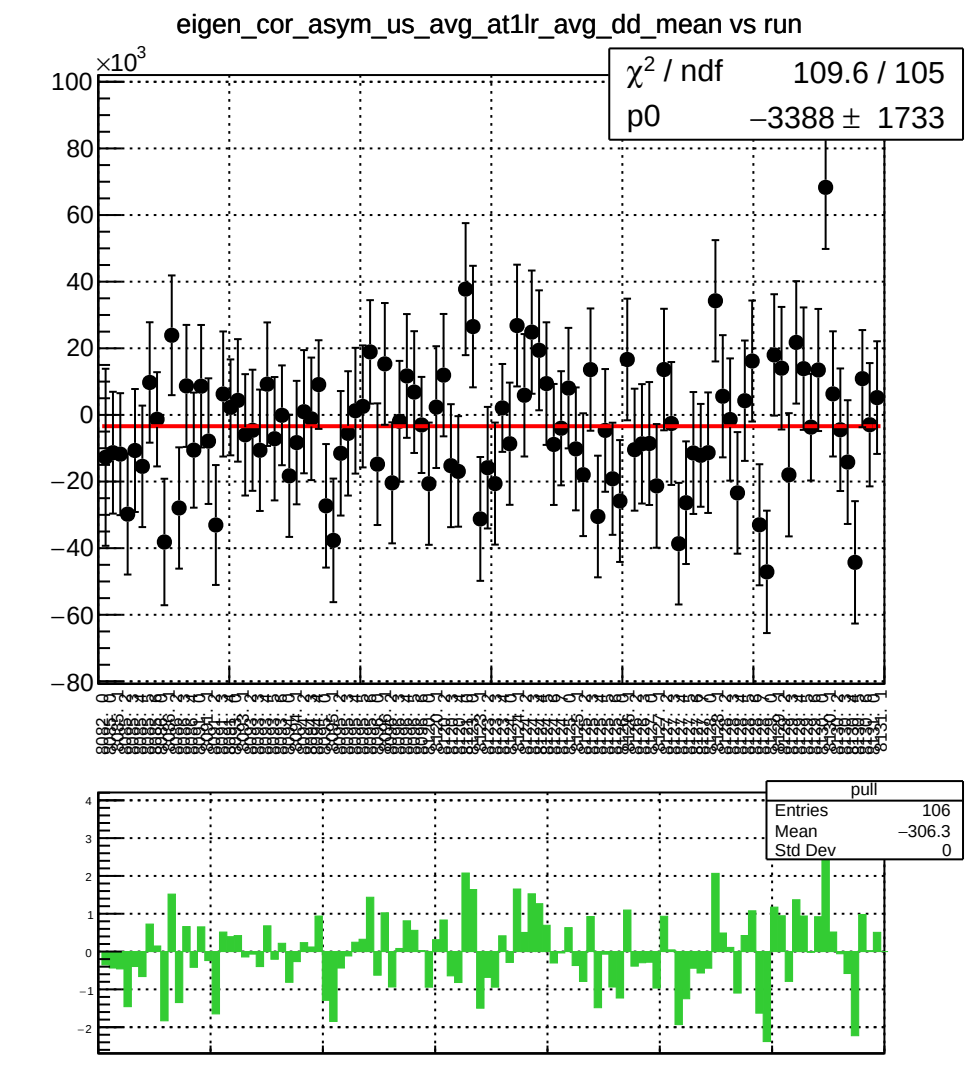

pull1D
Entries 106
Mean −0.009531
Std Dev 1.017

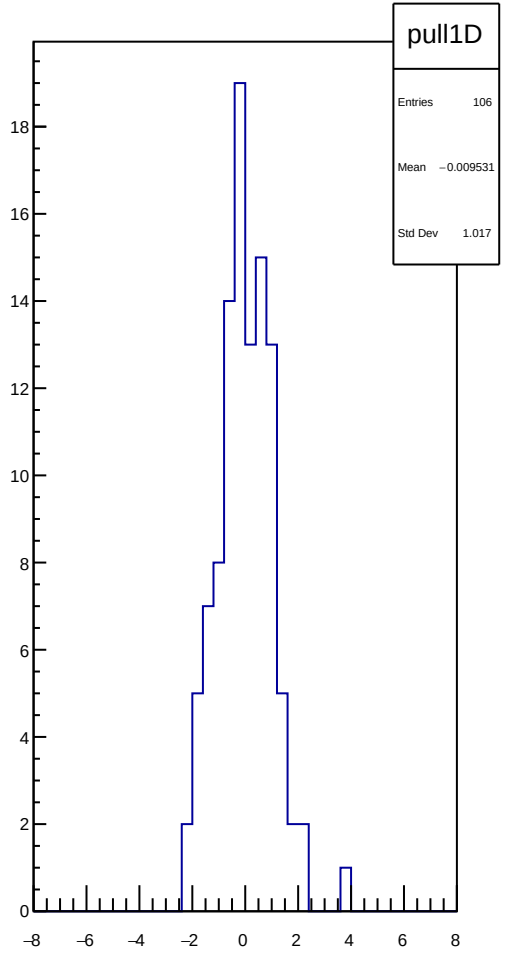

cor_asym_us_avg_at1lr_avg_dd_rms vs run
$\chi^2$ / ndf 222.5 / 105
p0 1743 ± 1.225
1820
1800
1780
1760
1740
1720
1700
1680

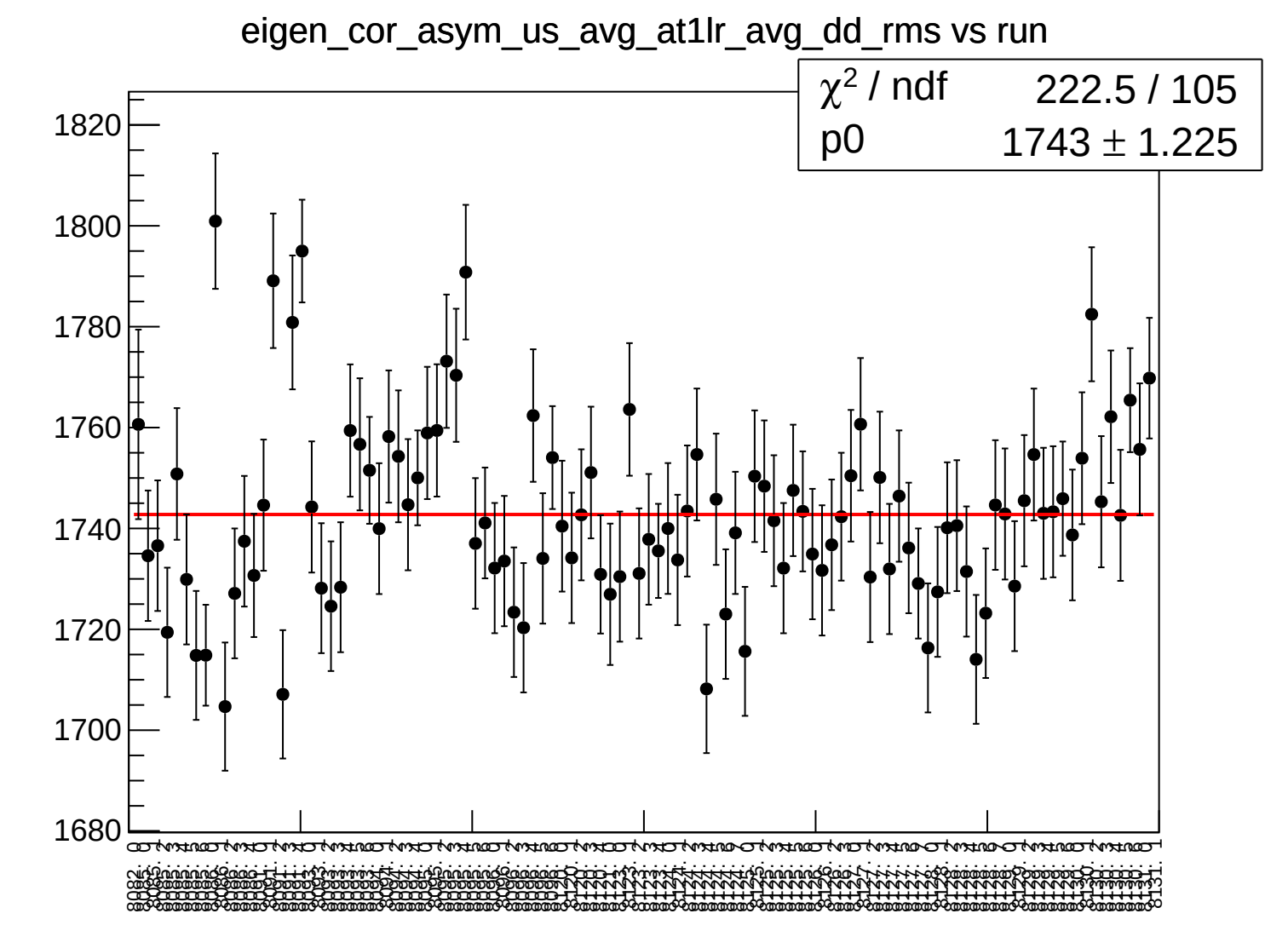

asym_us_avg_at1lr_avg_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 88.22 / 105
p0 3621 ± 2340
100
50
0
−50
−100
pull
Entries 106
Mean −8.564
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

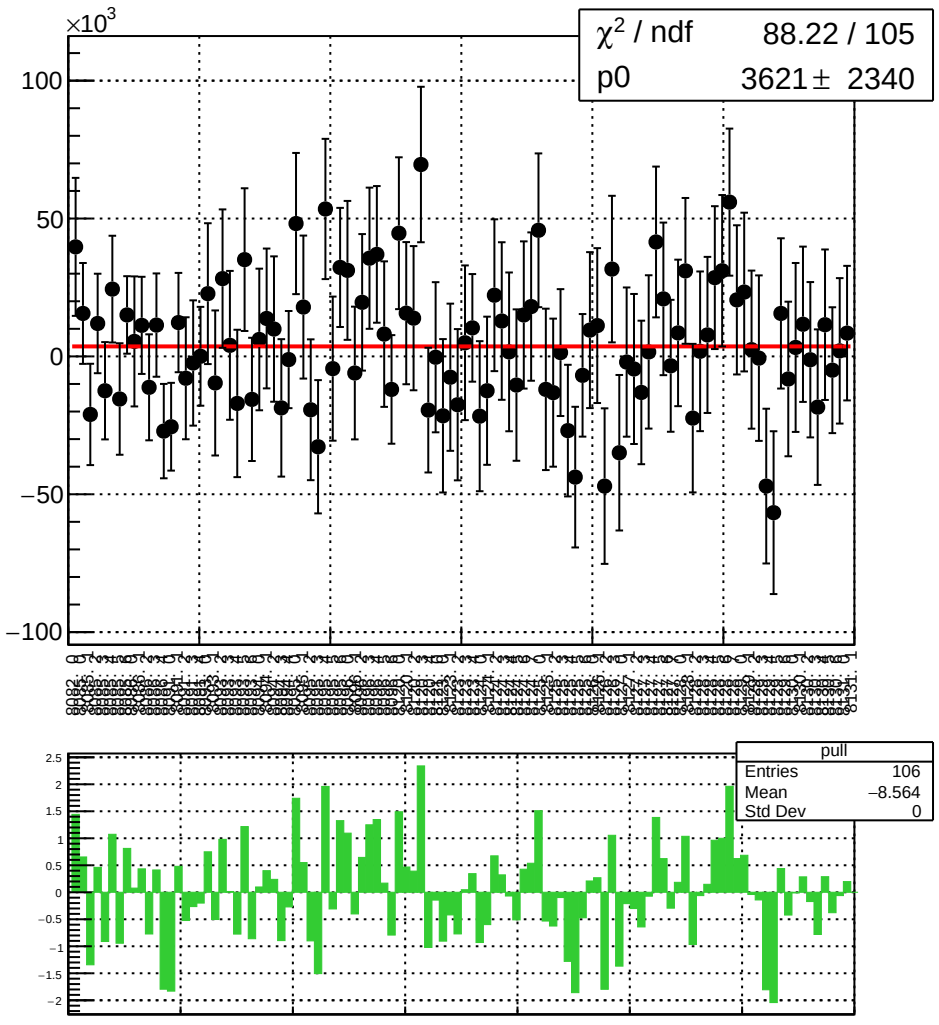

pull1D
Entries 106
Mean 0.01835
Std Dev 0.9121
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

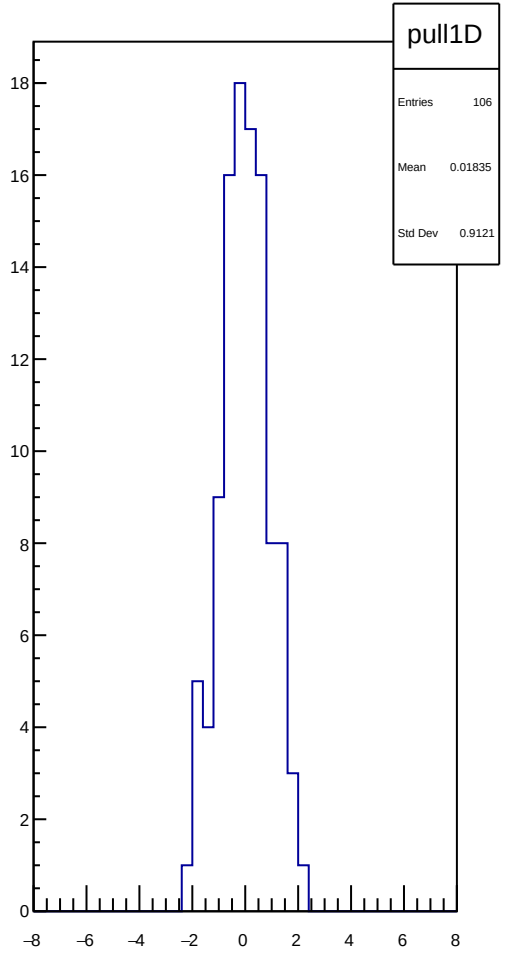

asym_us_avg_at1lr_avg_dd_cor_correction_rms vs run
χ² / ndf 5.018e+04 / 105
p0 2324 ± 1.655
3000
2800
2600
2400
2200
2000
1800
1600
1400

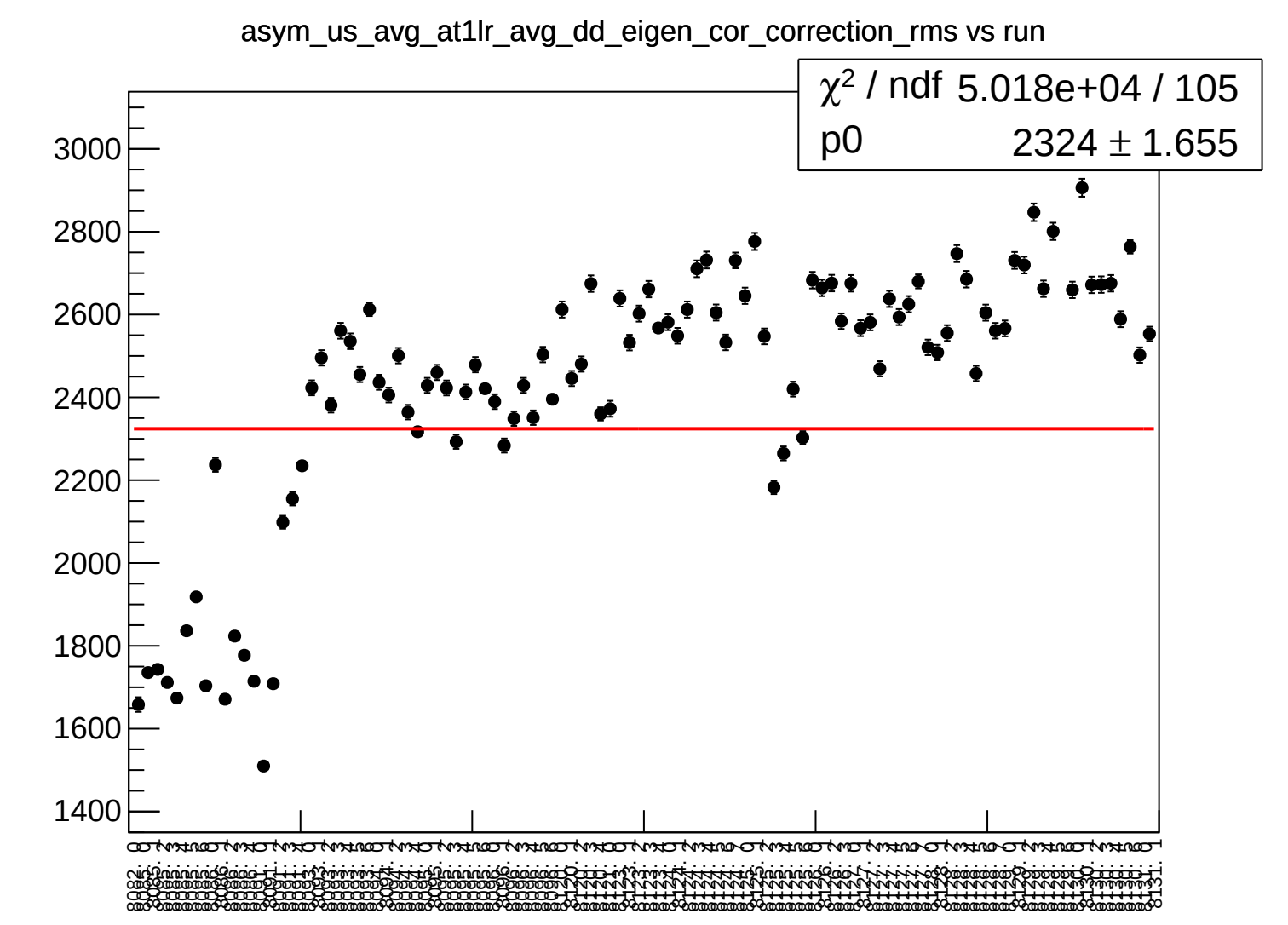

eigen_cor_asym_us_avg_at1lr_avg_dd_mean vs run
×10^3
χ² / ndf 109.6 / 105
p0 −3388 ± 1733
pull
Entries 106
Mean −306.3
Std Dev 0

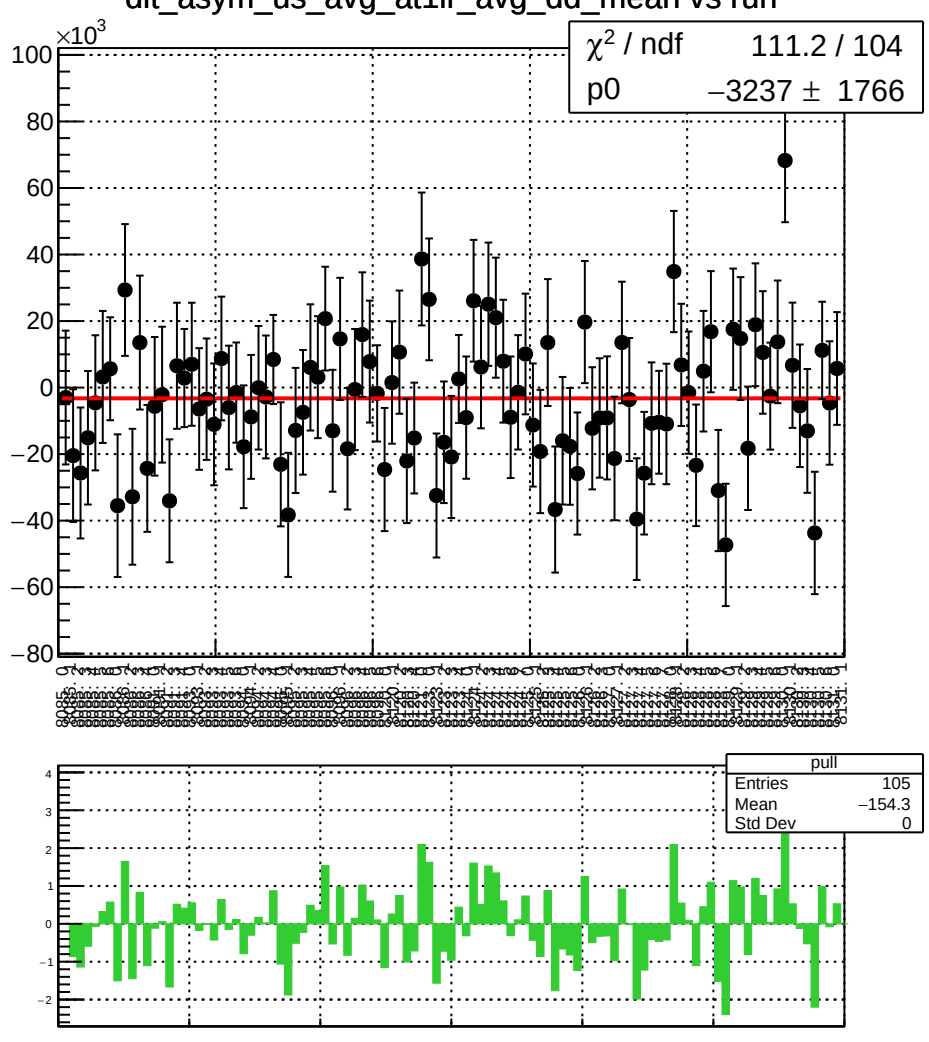

pull1D
Entries 106
Mean −0.009531
Std Dev 1.017

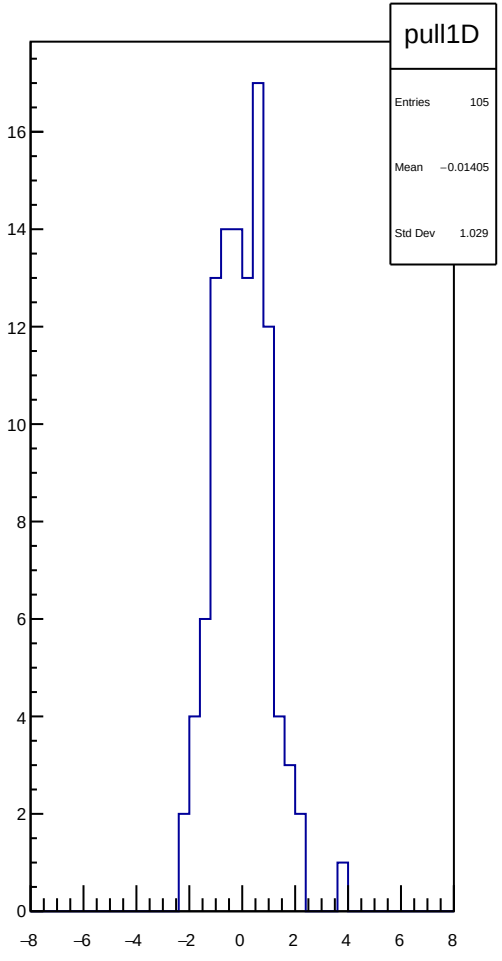

eigen_cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 222.5 / 105
p0 1743 ± 1.225
1820
1800
1780
1760
1740
1720
1700
1680

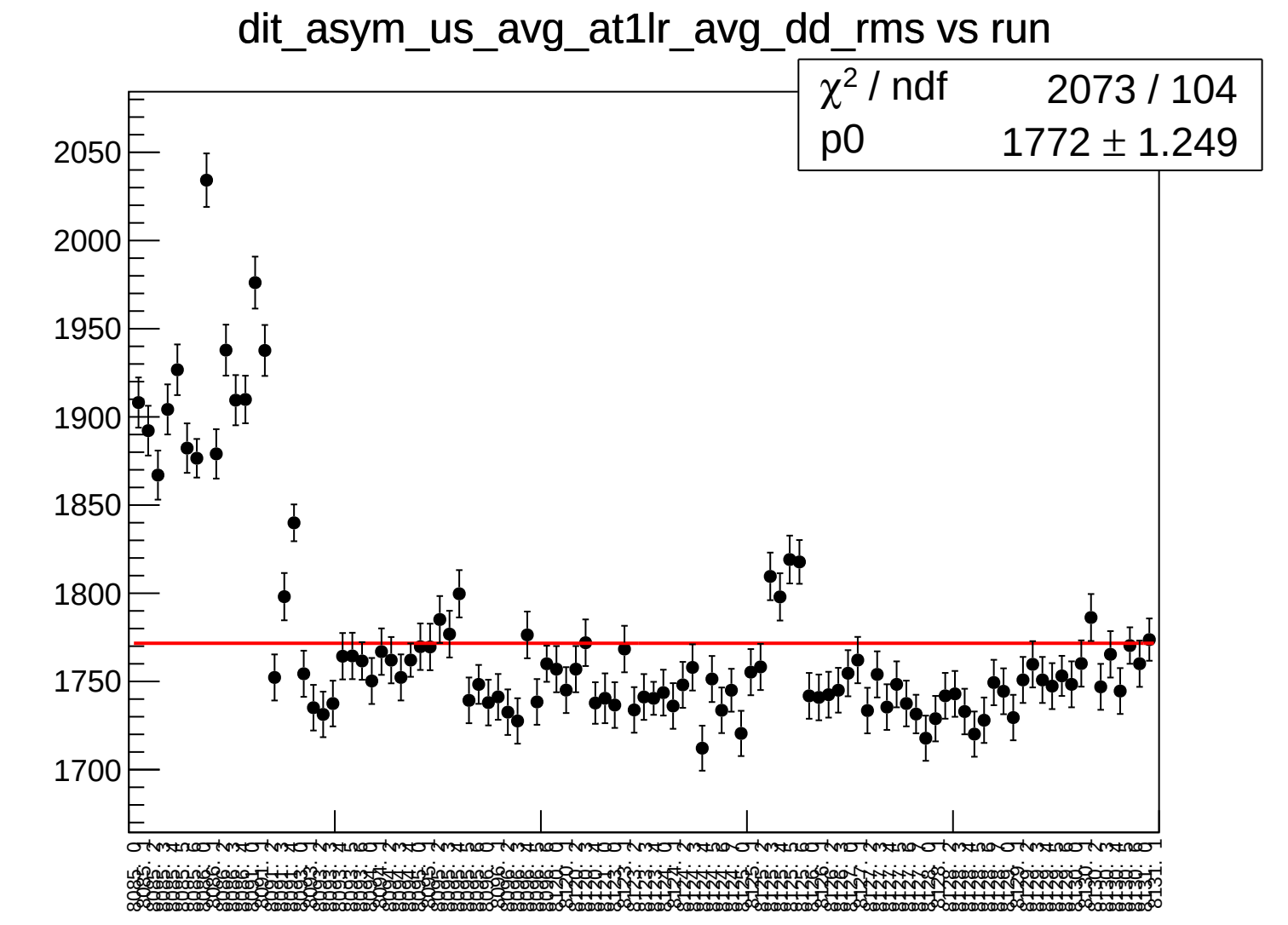

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 88.22 / 105
p0 3621 ± 2340
100
50
0
−50
−100
pull
Entries 106
Mean −8.564
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

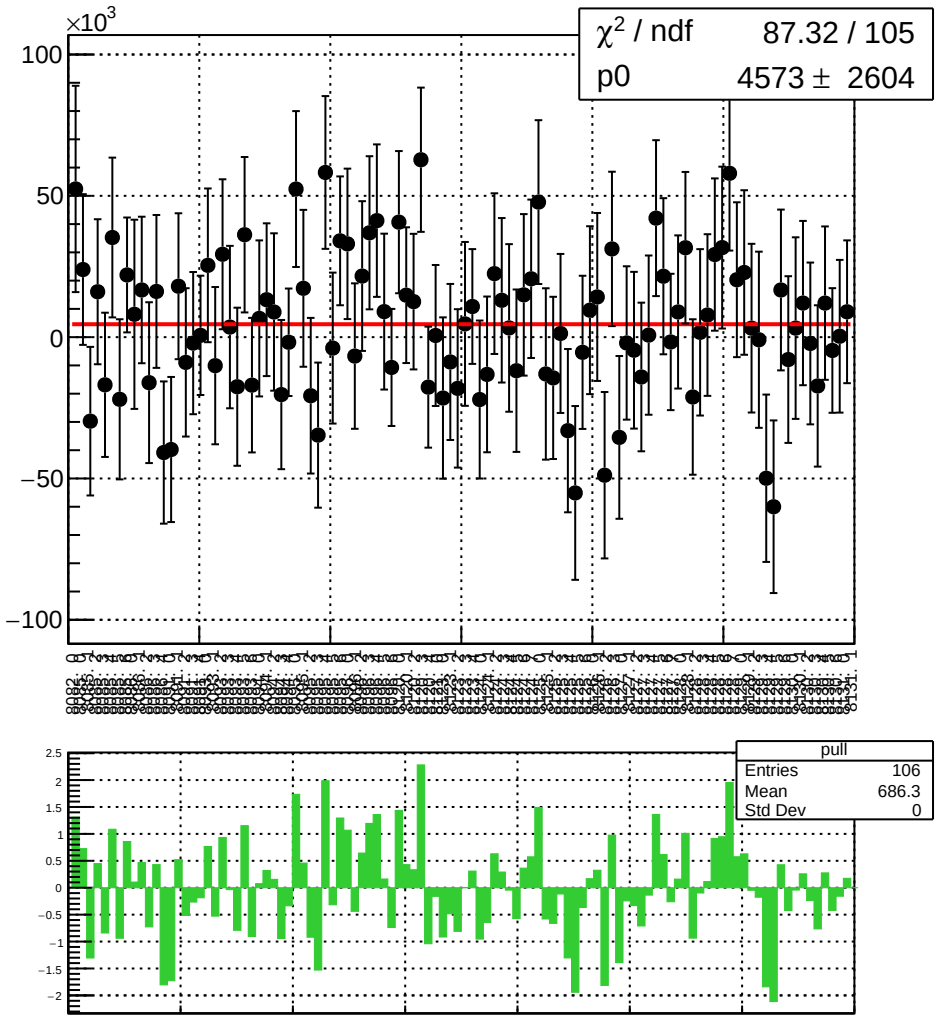

pull1D
Entries 106
Mean 0.01835
Std Dev 0.9121
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

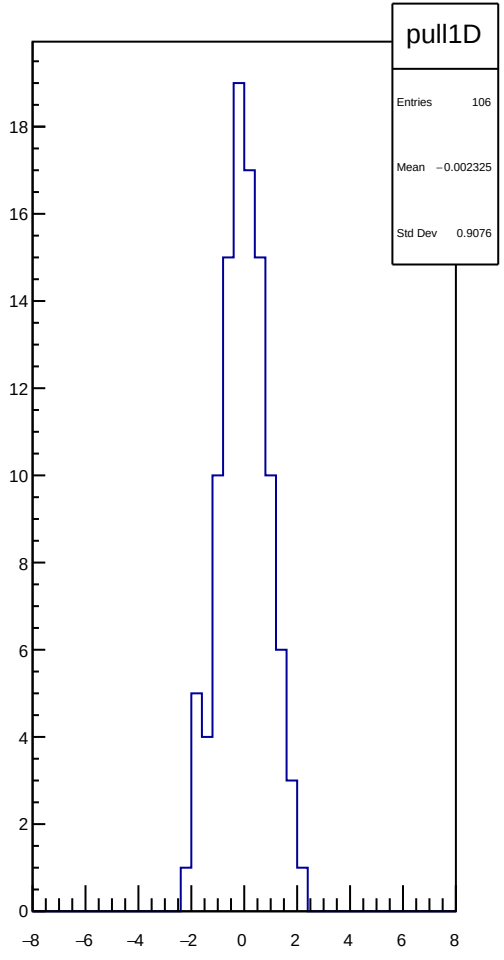

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 5.018e+04 / 105
p0 2324 ± 1.655
3000
2800
2600
2400
2200
2000
1800
1600
1400

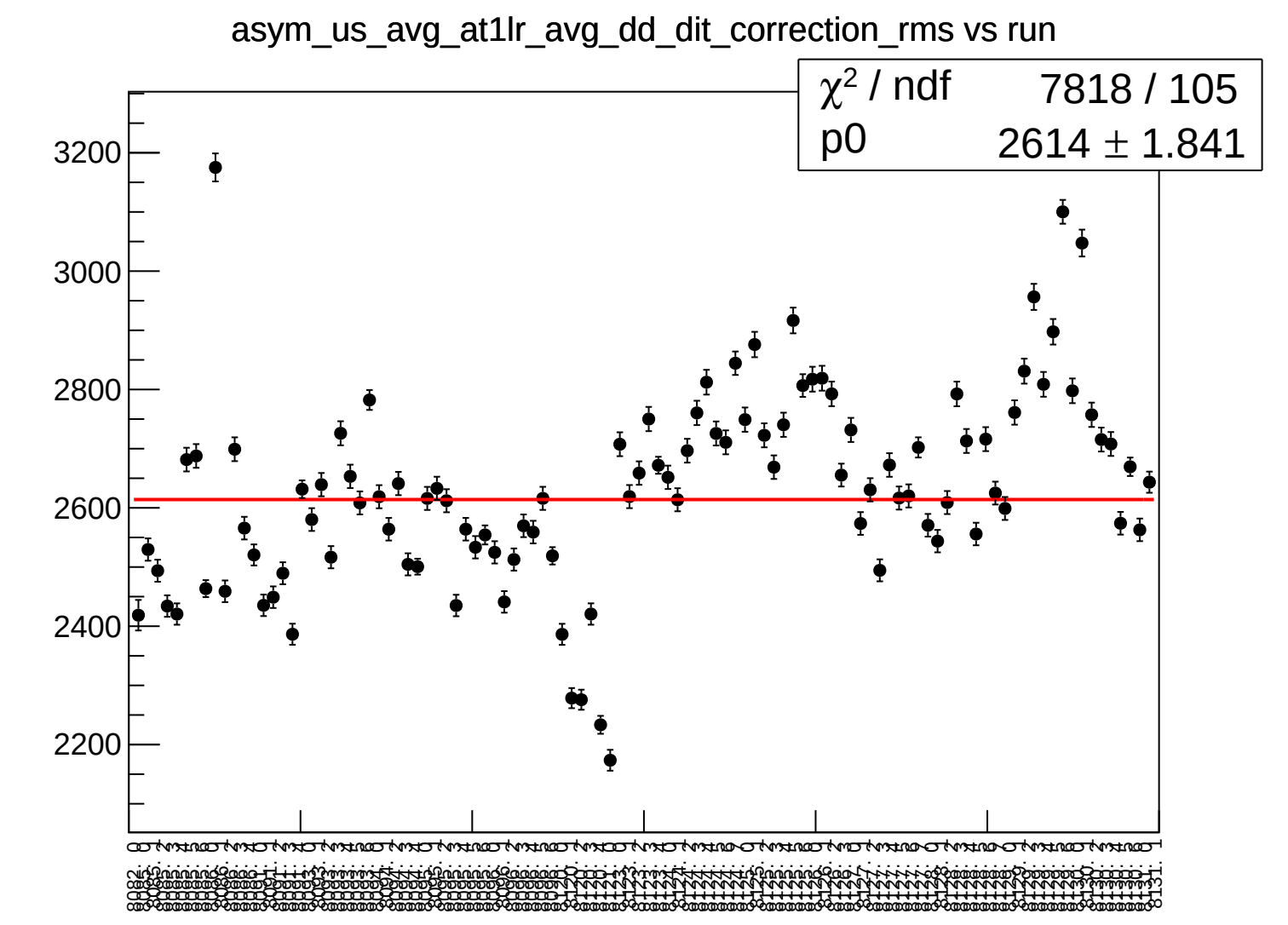

dit_asym_us_avg_at1lr_avg_dd_mean vs run
×10^3
χ² / ndf 111.2 / 104
p0 −3237 ± 1766
pull
Entries 105
Mean −154.3
Std Dev 0

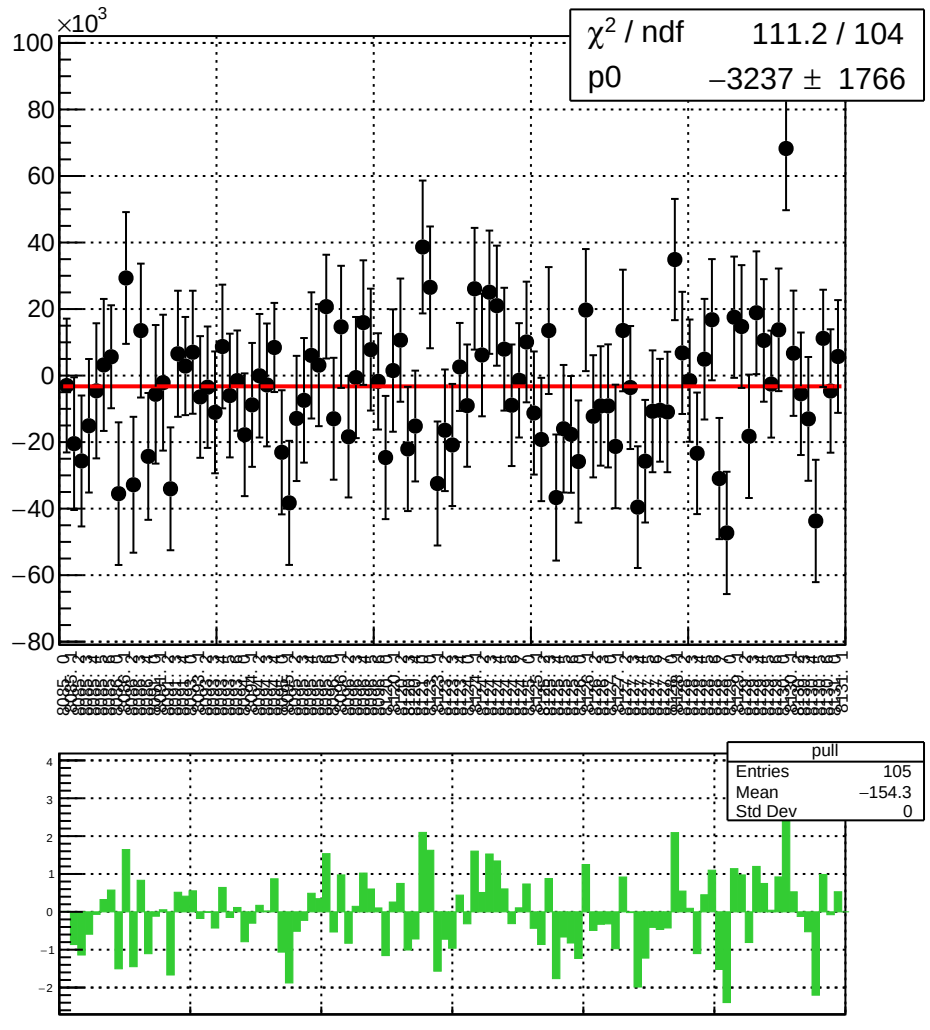

pull1D
Entries 105
Mean −0.01405
Std Dev 1.029

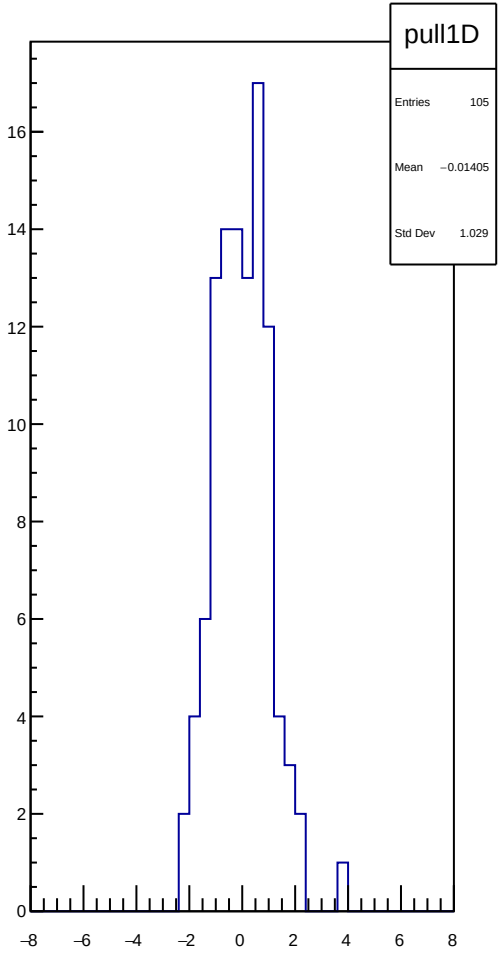

dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 2073 / 104
p0 1772 ± 1.249
2050
2000
1950
1900
1850
1800
1750
1700

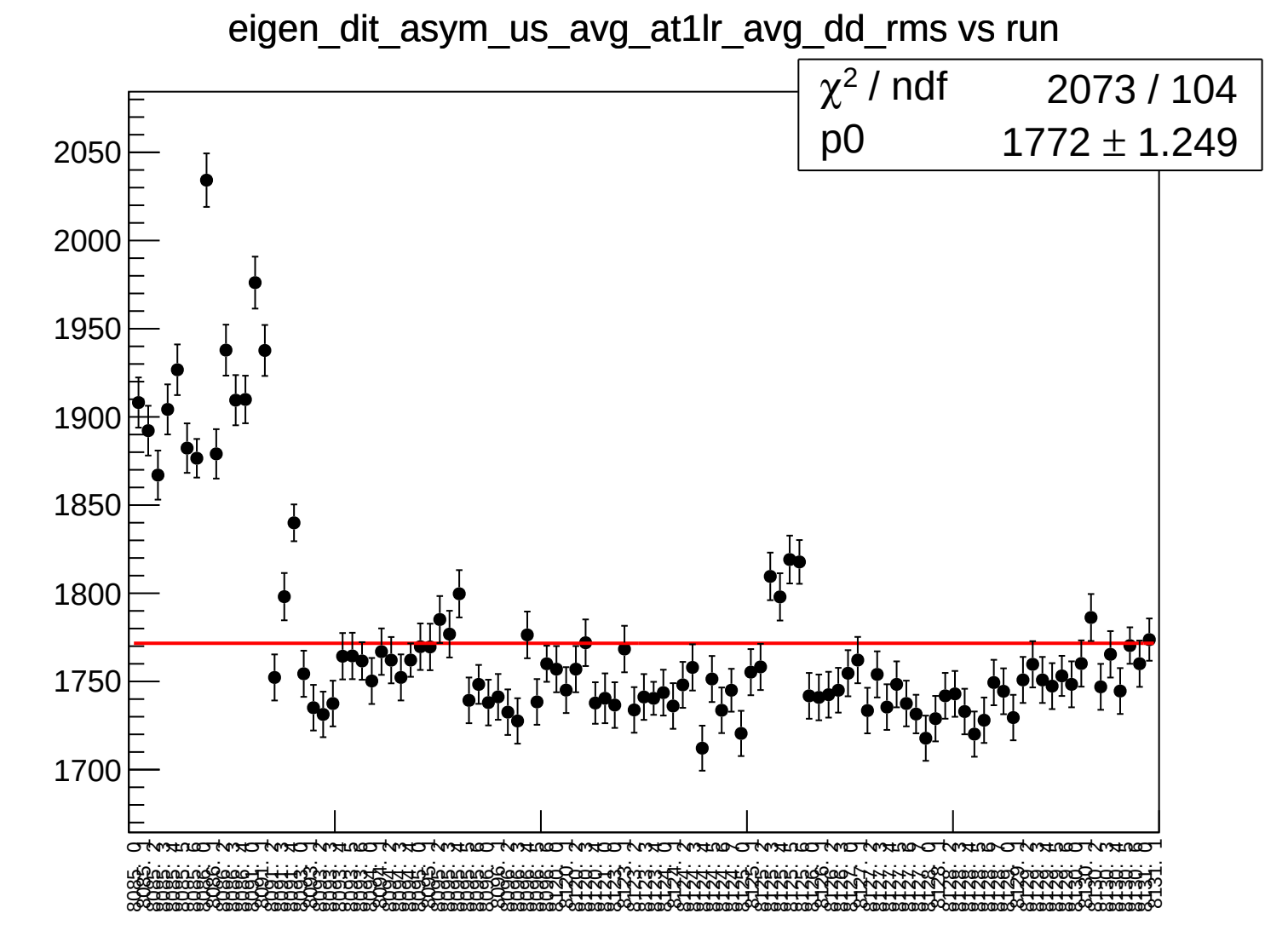

asym_us_avg_at1lr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 87.32 / 105
p0 4573 ± 2604
100
50
0
−50
−100
pull
Entries 106
Mean 686.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

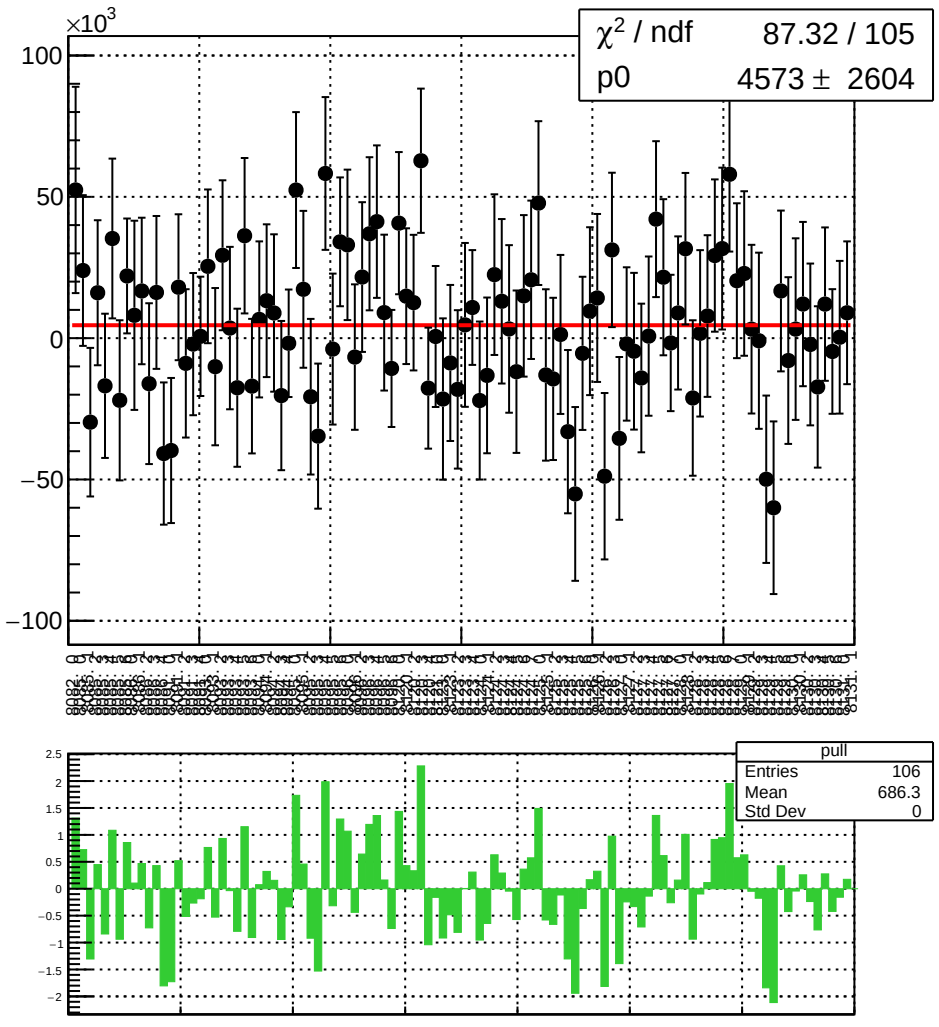

pull1D
Entries 106
Mean −0.002325
Std Dev 0.9076
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

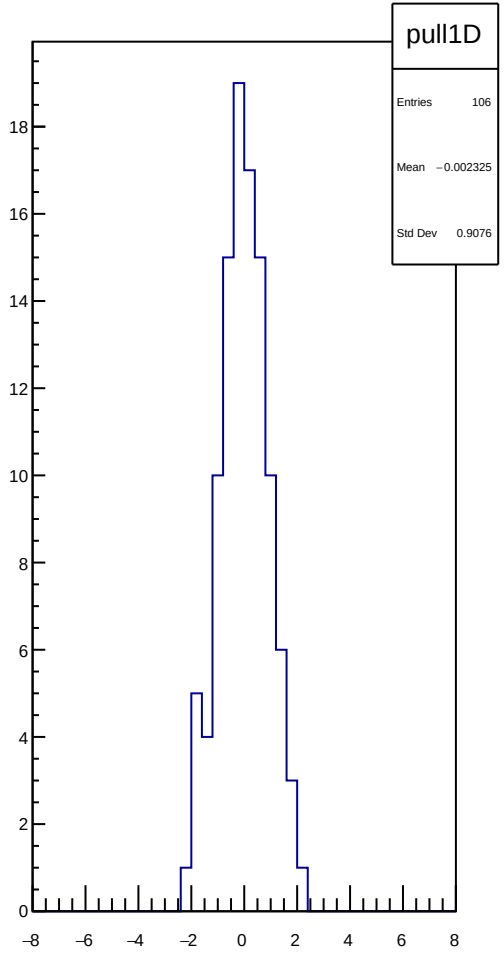

asym_us_avg_at1lr_avg_dd_dit_correction_rms vs run
χ² / ndf 7818 / 105
p0 2614 ± 1.841
3200
3000
2800
2600
2400
2200

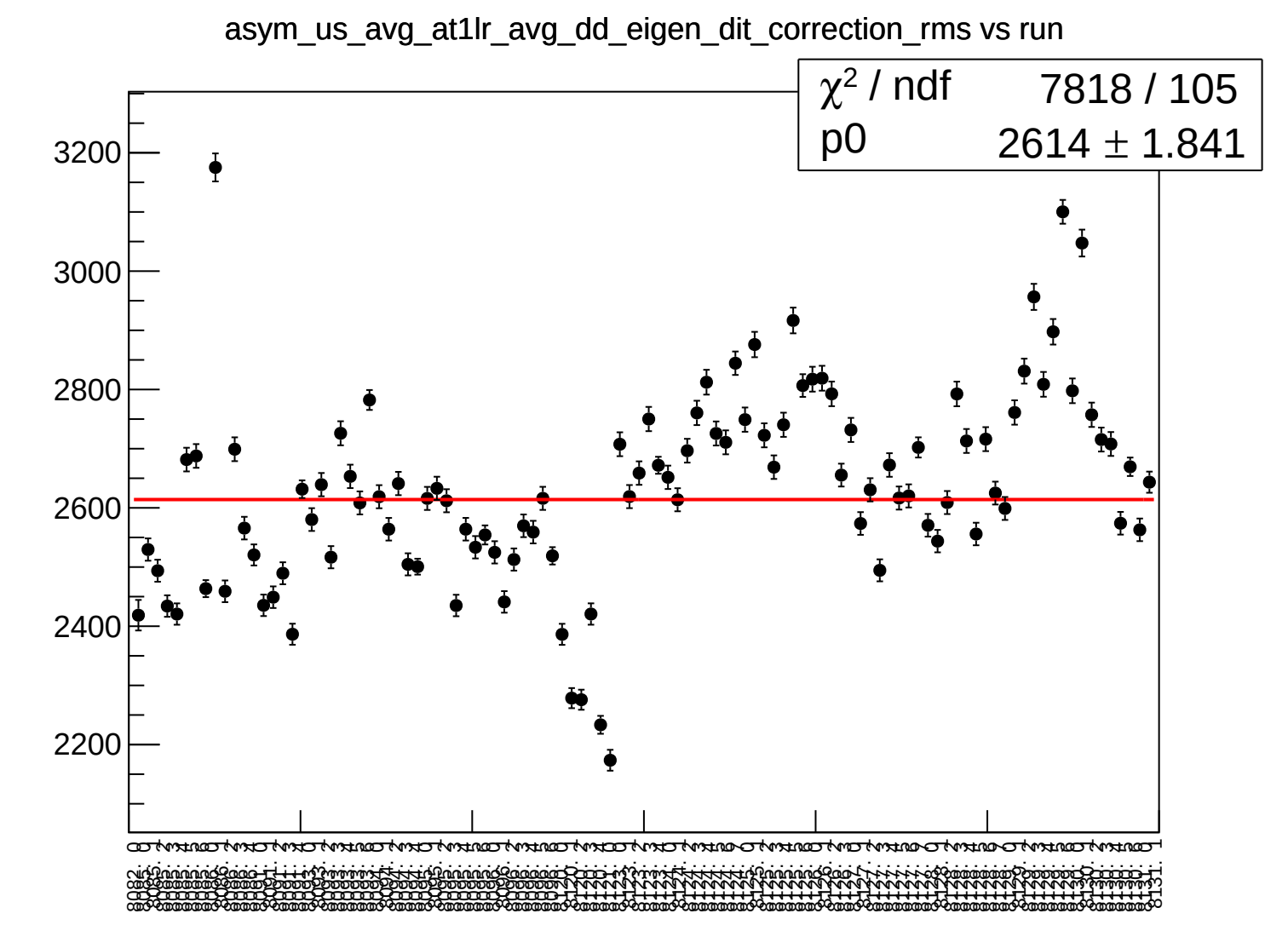

eigen_dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 111.2 / 104
p0 −3237 ± 1766
×10³
pull
Entries 105
Mean −154.3
Std Dev 0

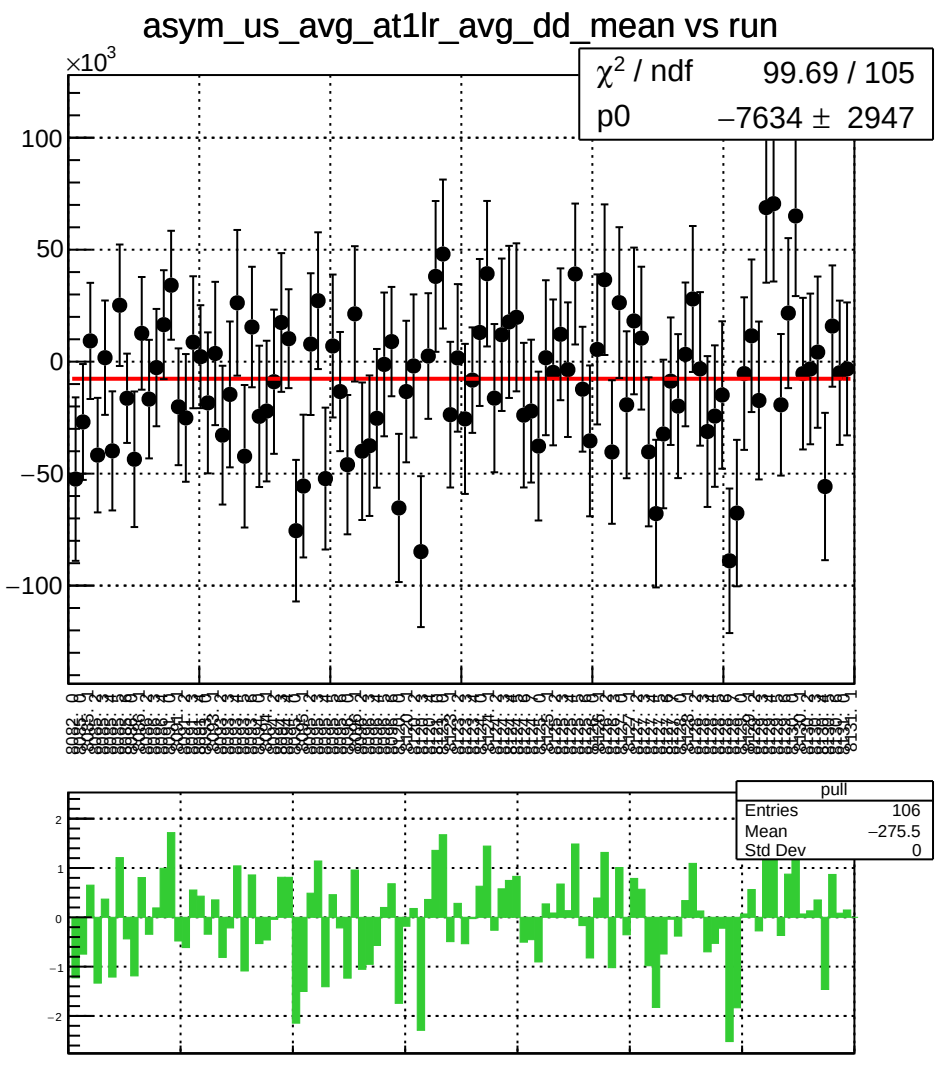

pull1D
Entries 105
Mean −0.01405
Std Dev 1.029

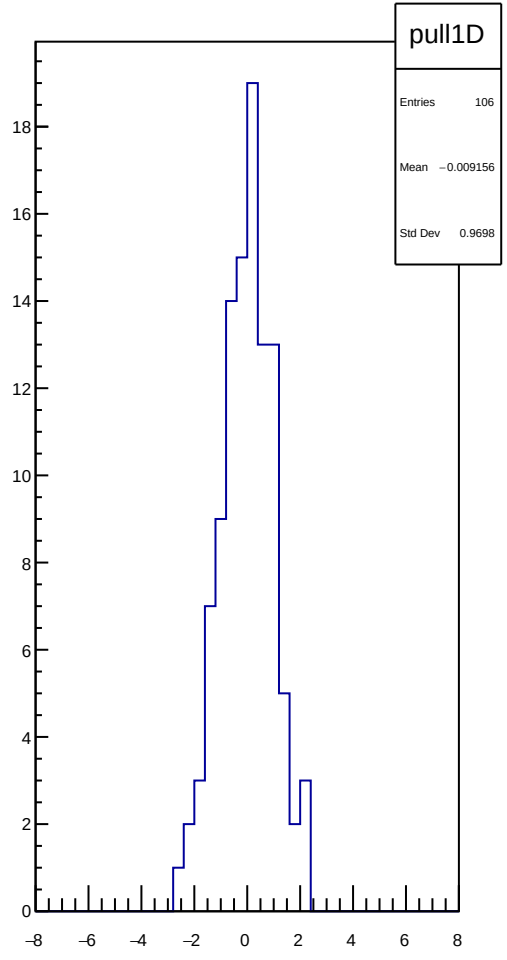

eigen_dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 2073 / 104
p0 1772 ± 1.249
2050
2000
1950
1900
1850
1800
1750
1700

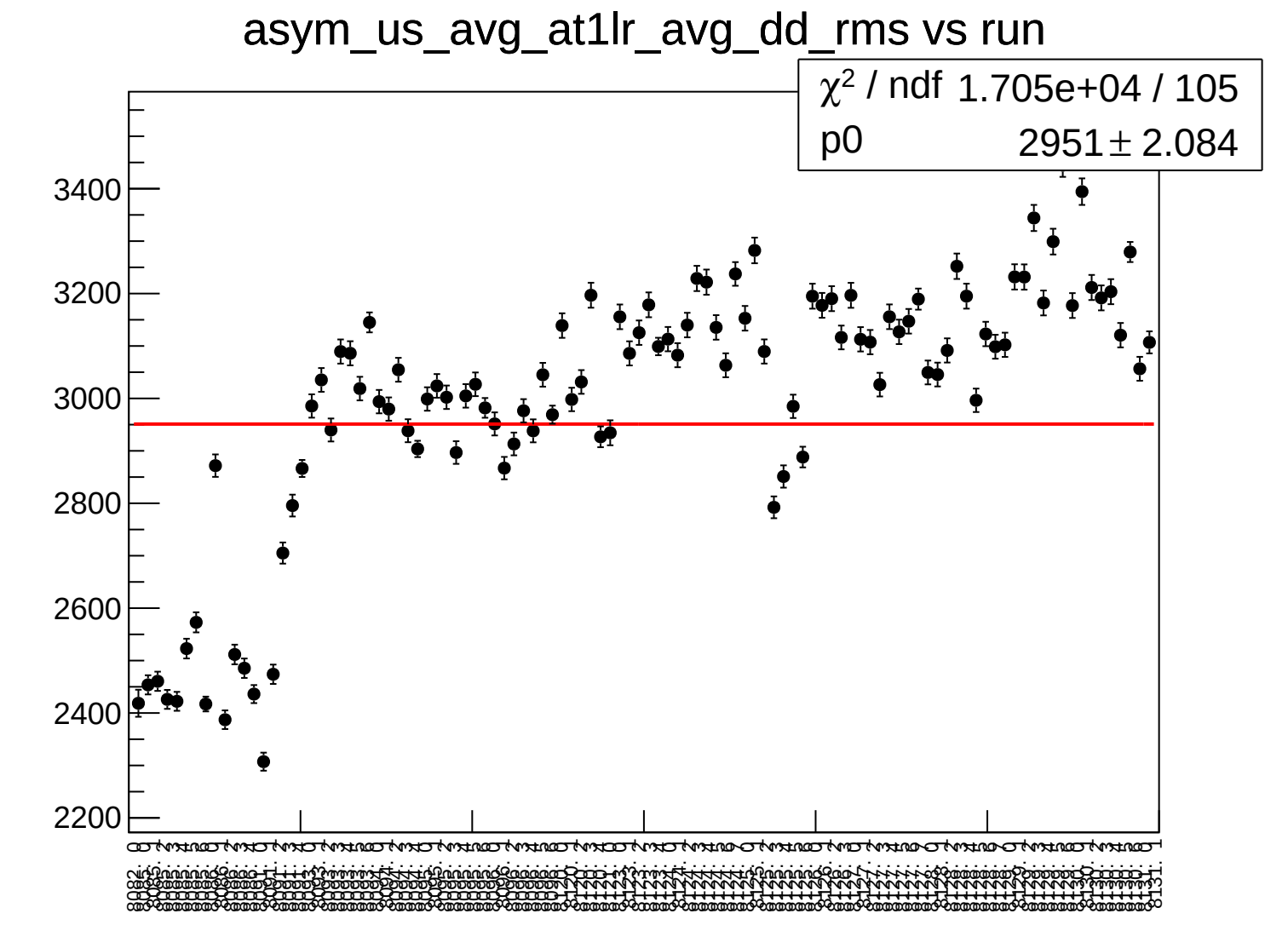

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 87.32 / 105
p0 4573 ± 2604
100
50
0
−50
−100
pull
Entries 106
Mean 686.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

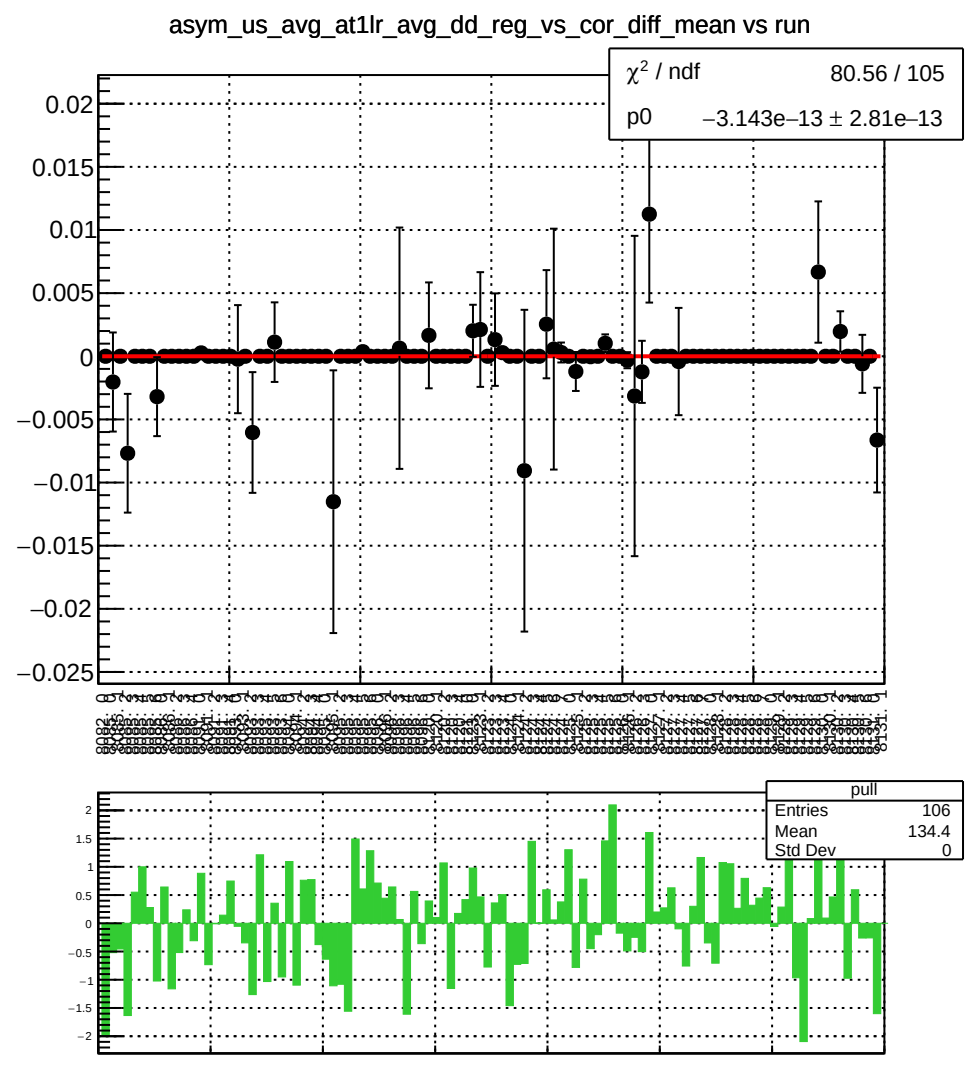

pull1D
Entries 106
Mean −0.002325
Std Dev 0.9076
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

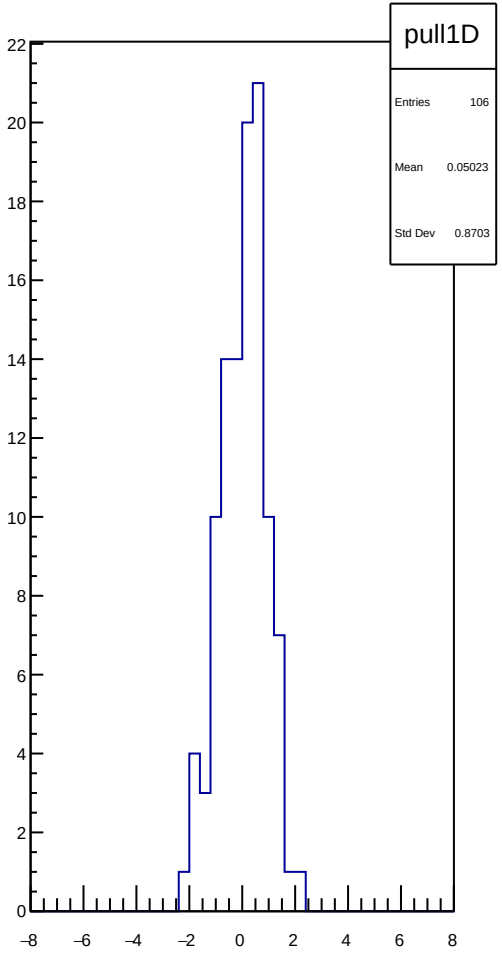

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 7818 / 105
p0 2614 ± 1.841
3200
3000
2800
2600
2400
2200

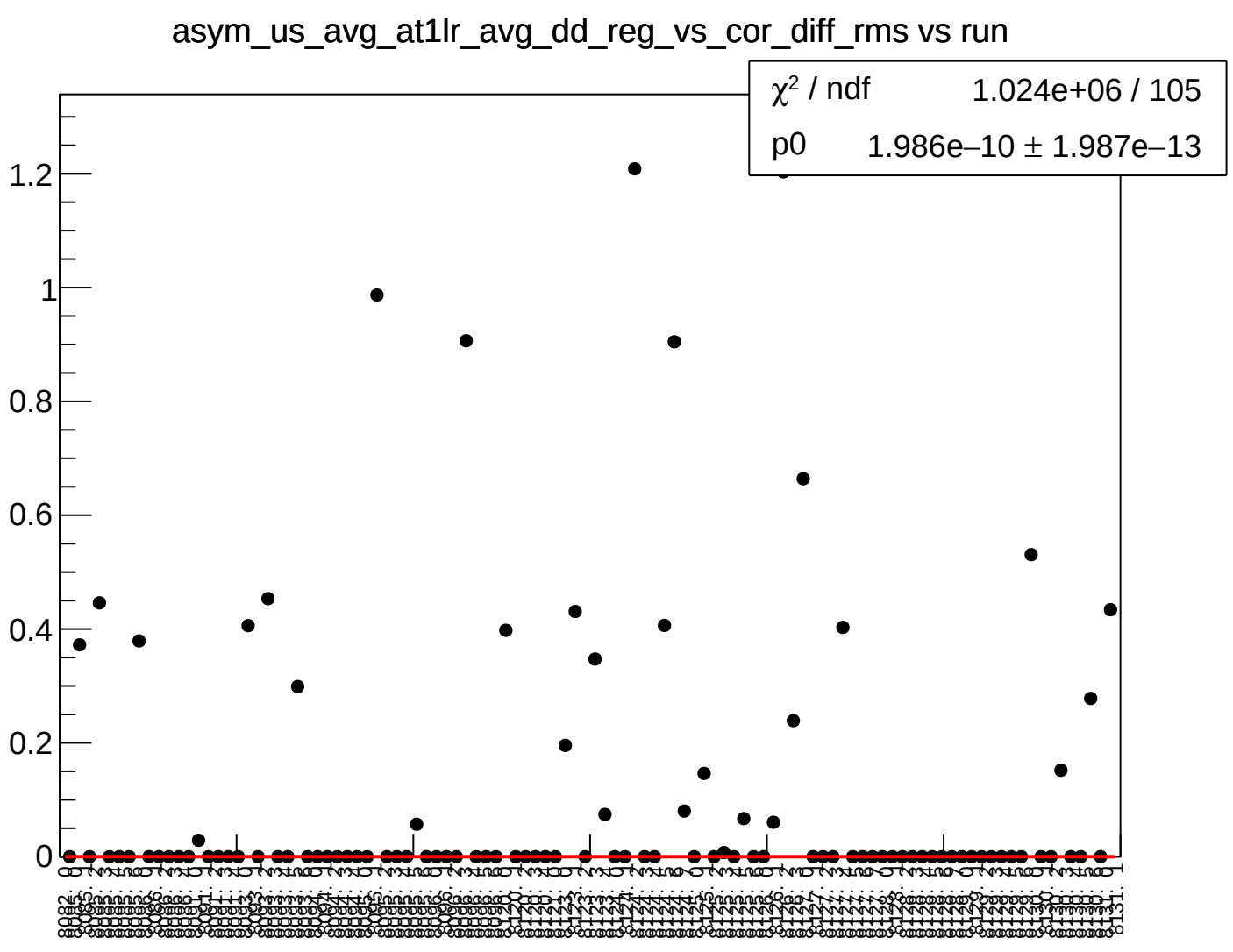

asym_us_avg_at1lr_avg_dd_mean vs run
×10^3
χ^2 / ndf 99.69 / 105
p0 −7634 ± 2947
100
50
0
−50
−100
pull
Entries 106
Mean −275.5
Std Dev 0
2
1
0
−1
−2

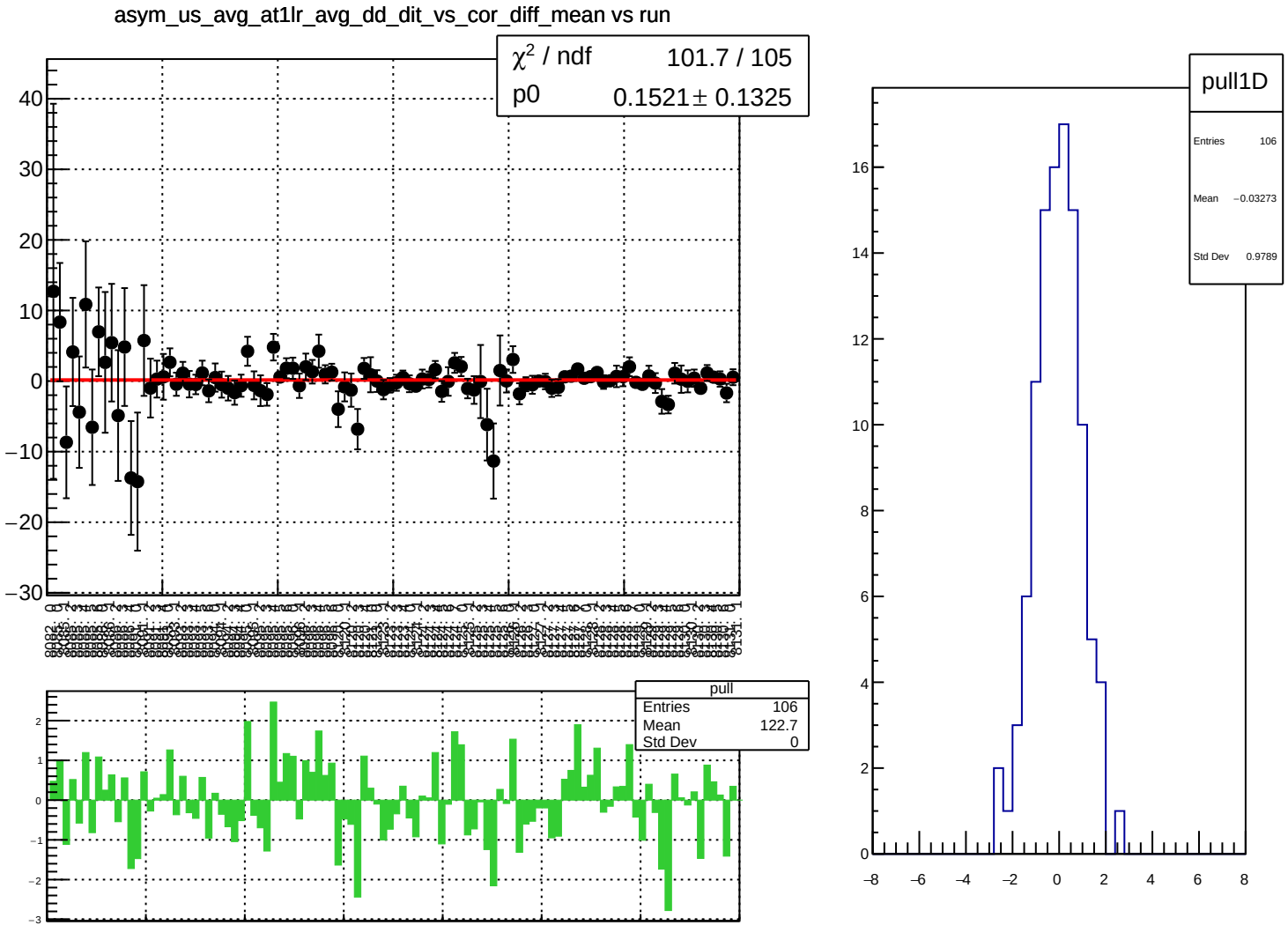

pull1D
Entries 106
Mean −0.009156
Std Dev 0.9698
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

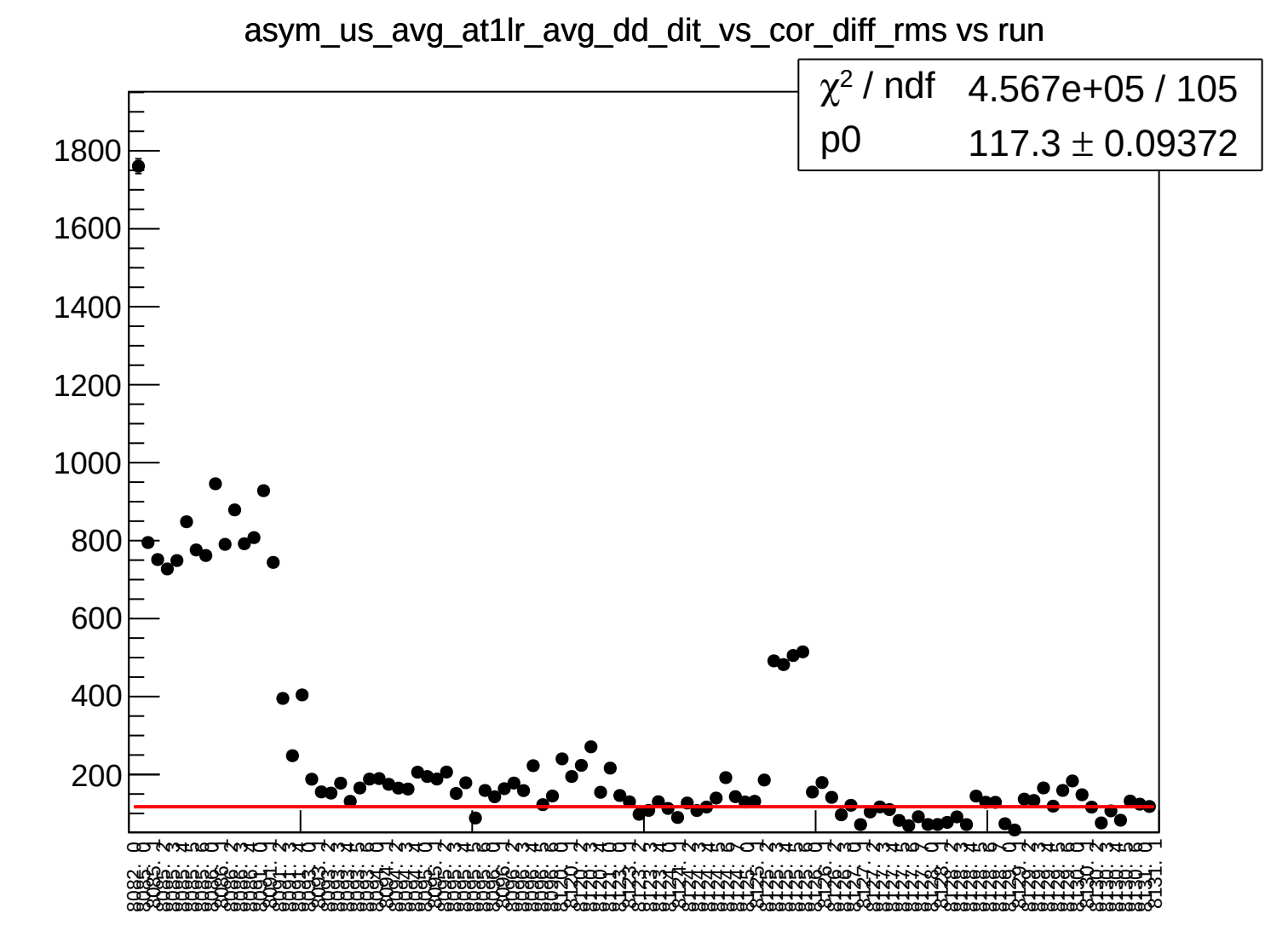

asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 1.705e+04 / 105
p0 2951 ± 2.084
3400
3200
3000
2800
2600
2400
2200

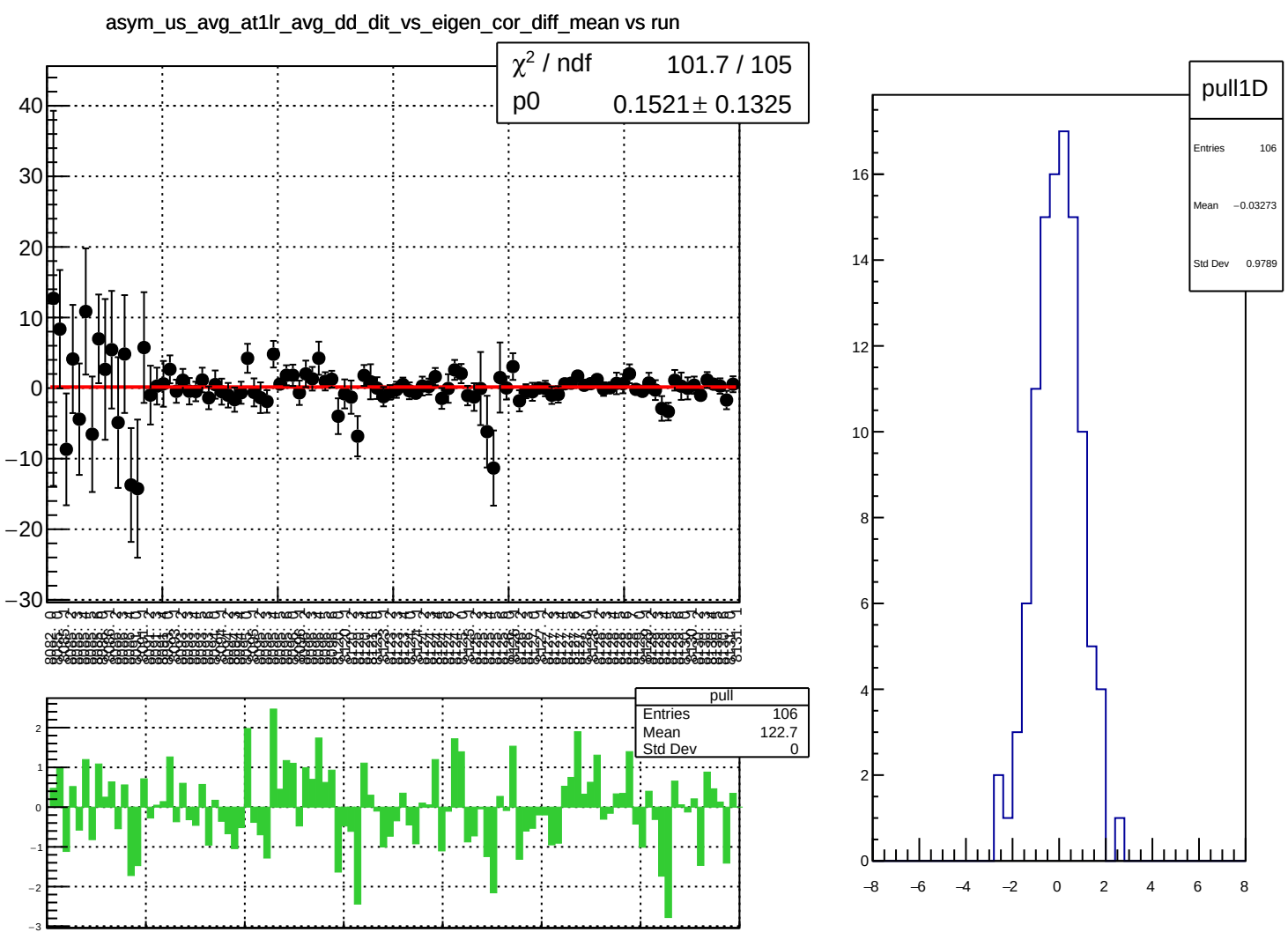

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 80.56 / 105
p0 −3.143e−13 ± 2.81e−13
pull
Entries 106
Mean 134.4
Std Dev 0

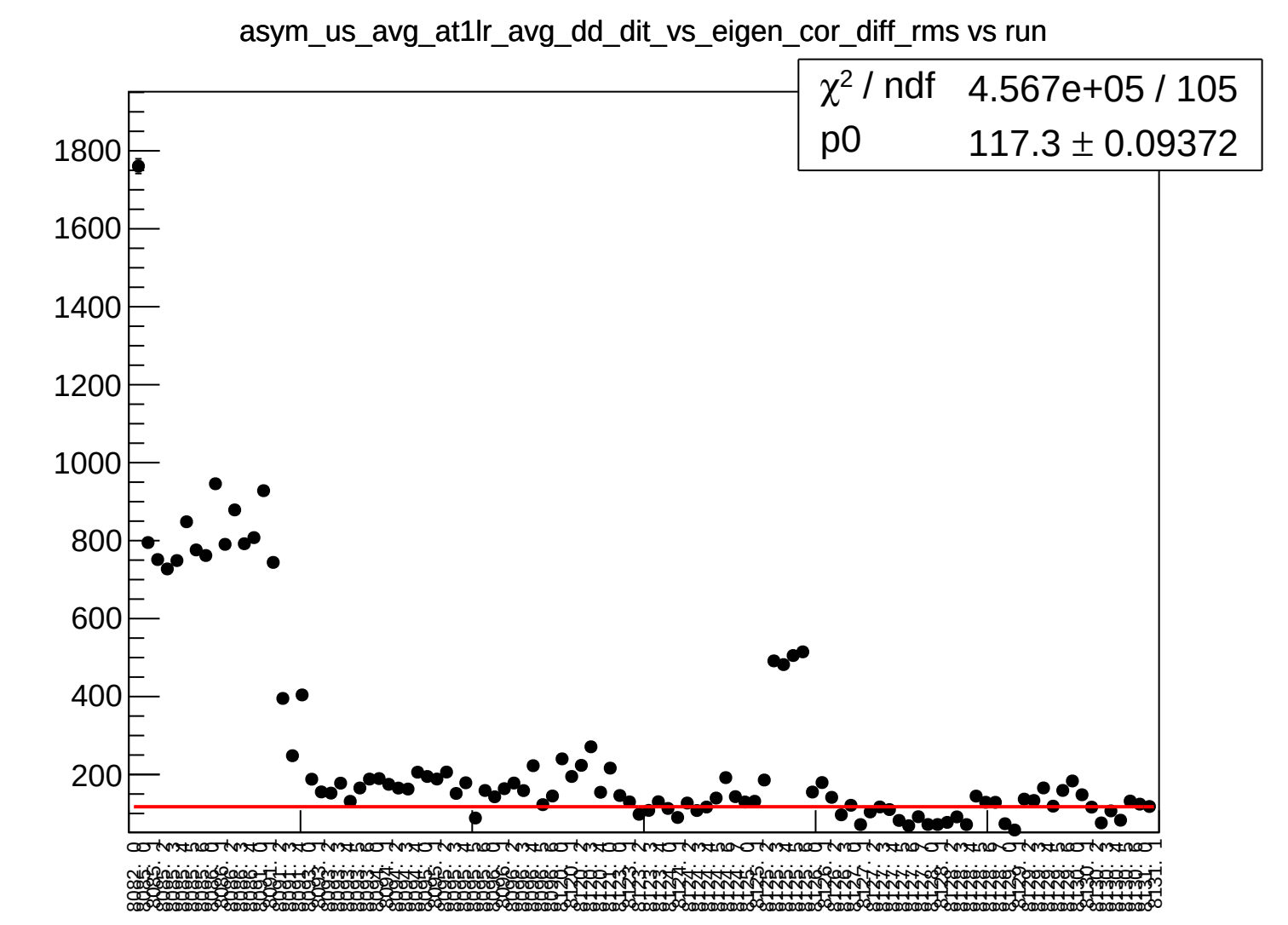

pull1D
Entries 106
Mean 0.05023
Std Dev 0.8703

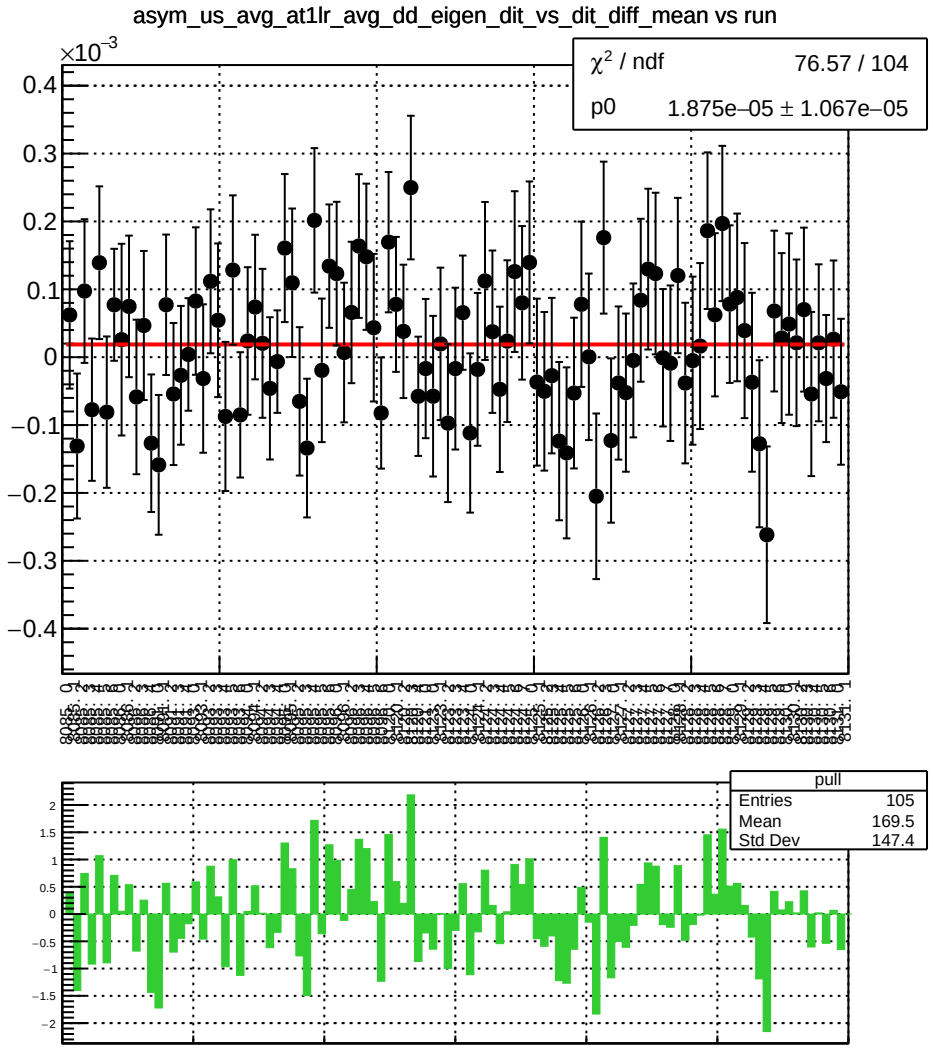

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.024e+06 / 105
p0 1.986e−10 ± 1.987e−13
1.2
1
0.8
0.6
0.4
0.2
0

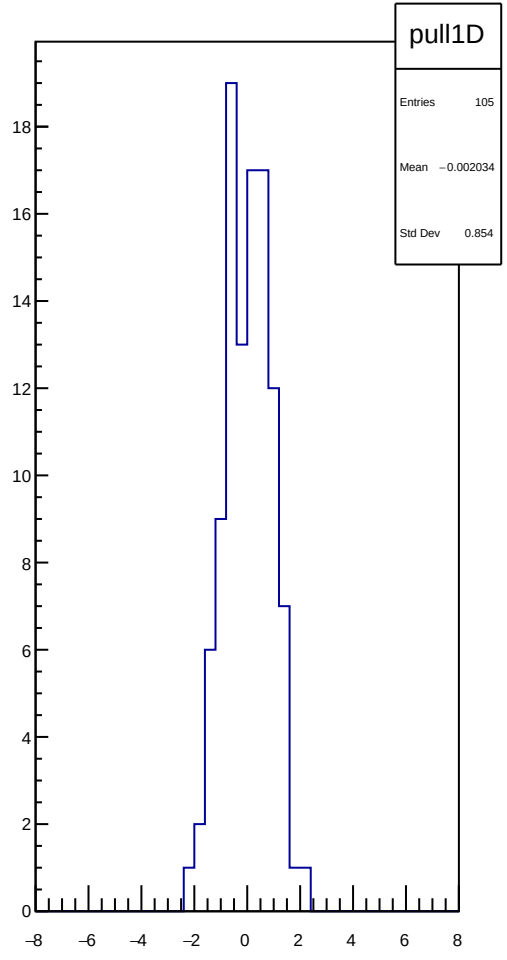

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 101.7 / 105
p0 0.1521 ± 0.1325
pull
Entries 106
Mean 122.7
Std Dev 0
pull1D
Entries 106
Mean −0.03273
Std Dev 0.9789

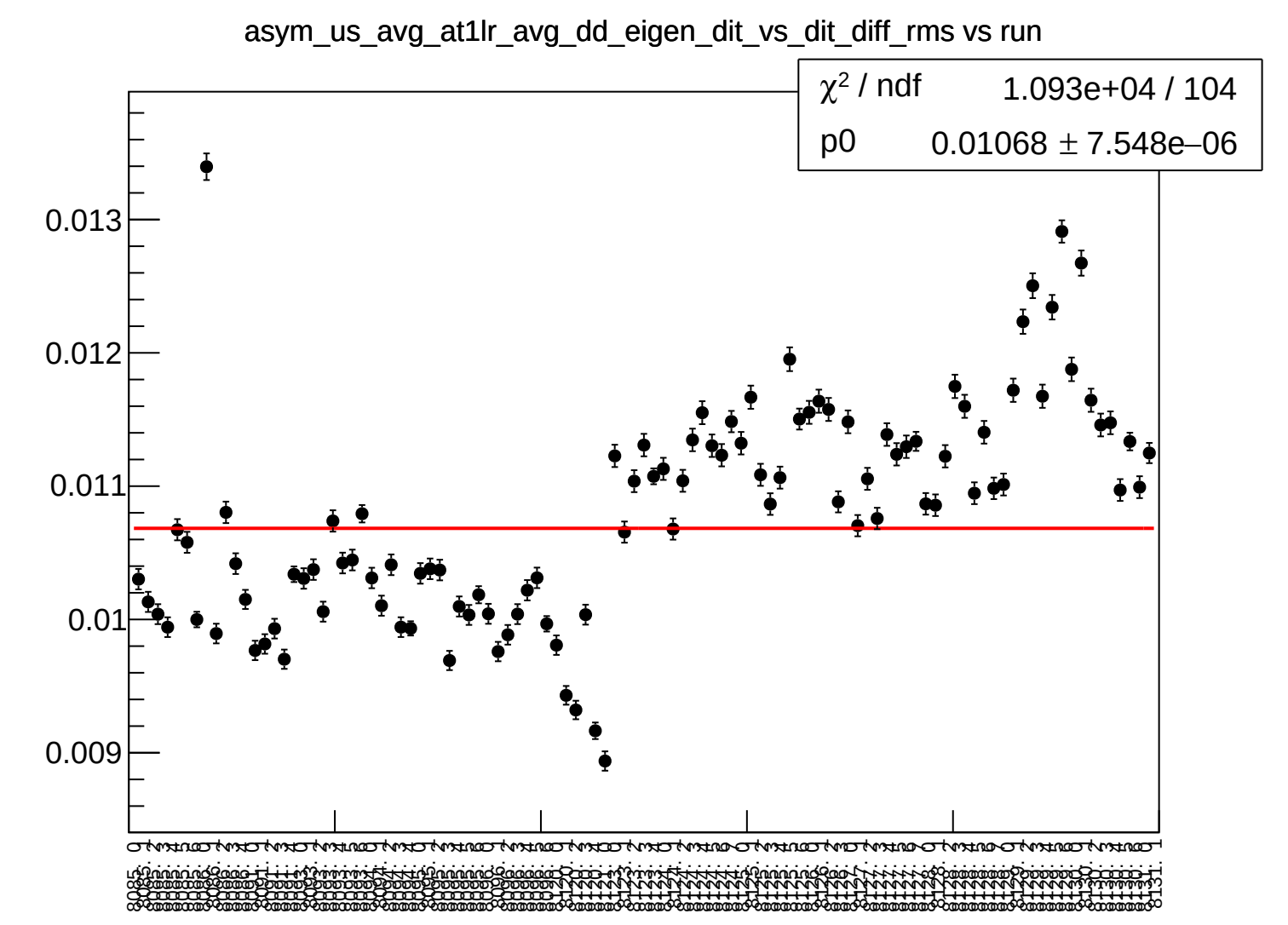

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.567e+05 / 105
p0 117.3 ± 0.09372
1800
1600
1400
1200
1000
800
600
400
200

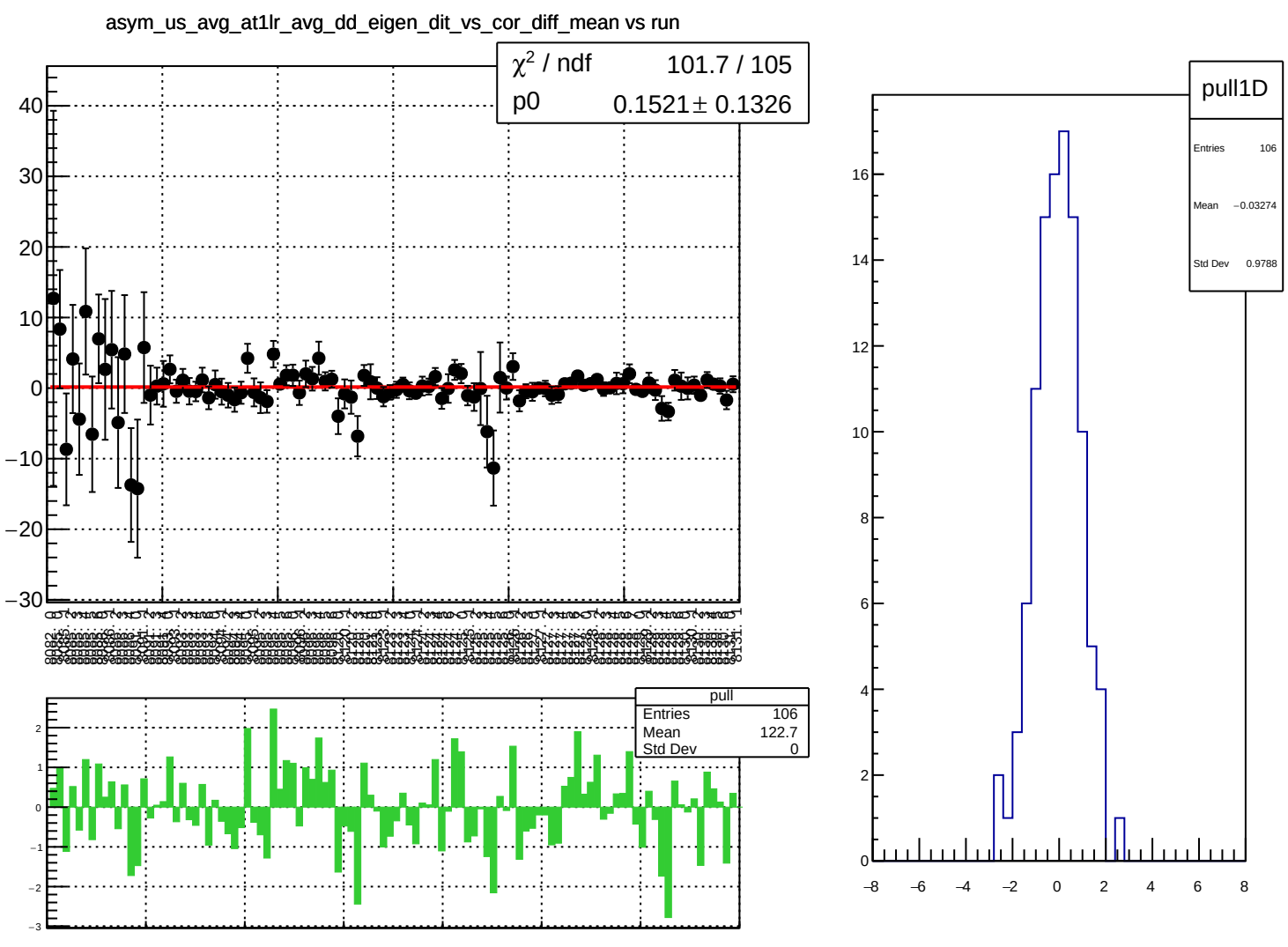

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.7 / 105
p0 0.1521 ± 0.1325
pull
Entries 106
Mean 122.7
Std Dev 0
pull1D
Entries 106
Mean −0.03273
Std Dev 0.9789

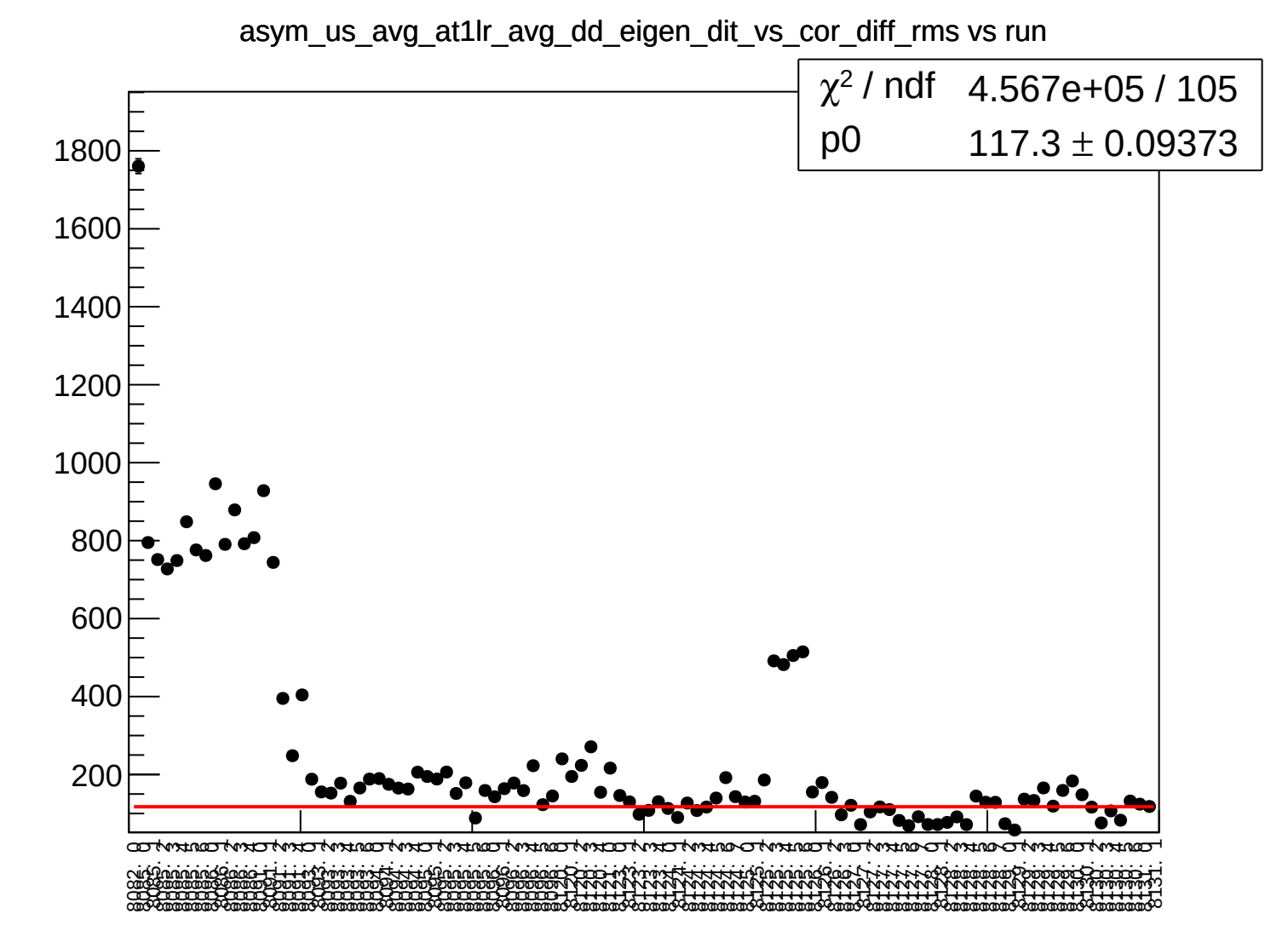

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.567e+05 / 105
p0 117.3 ± 0.09372
1800
1600
1400
1200
1000
800
600
400
200

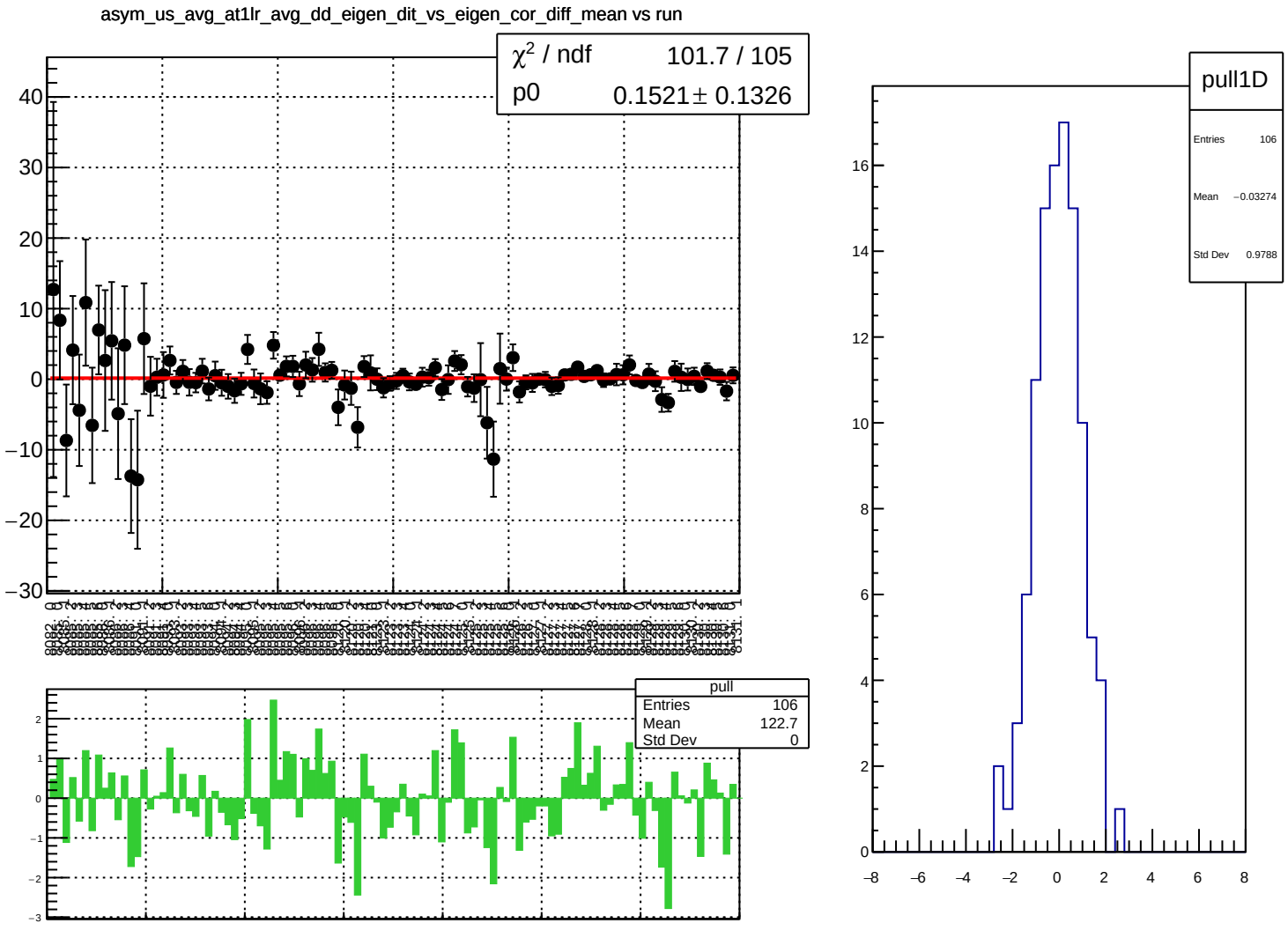

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 76.57 / 104
p0 1.875e−05 ± 1.067e−05
pull
Entries 105
Mean 169.5
Std Dev 147.4

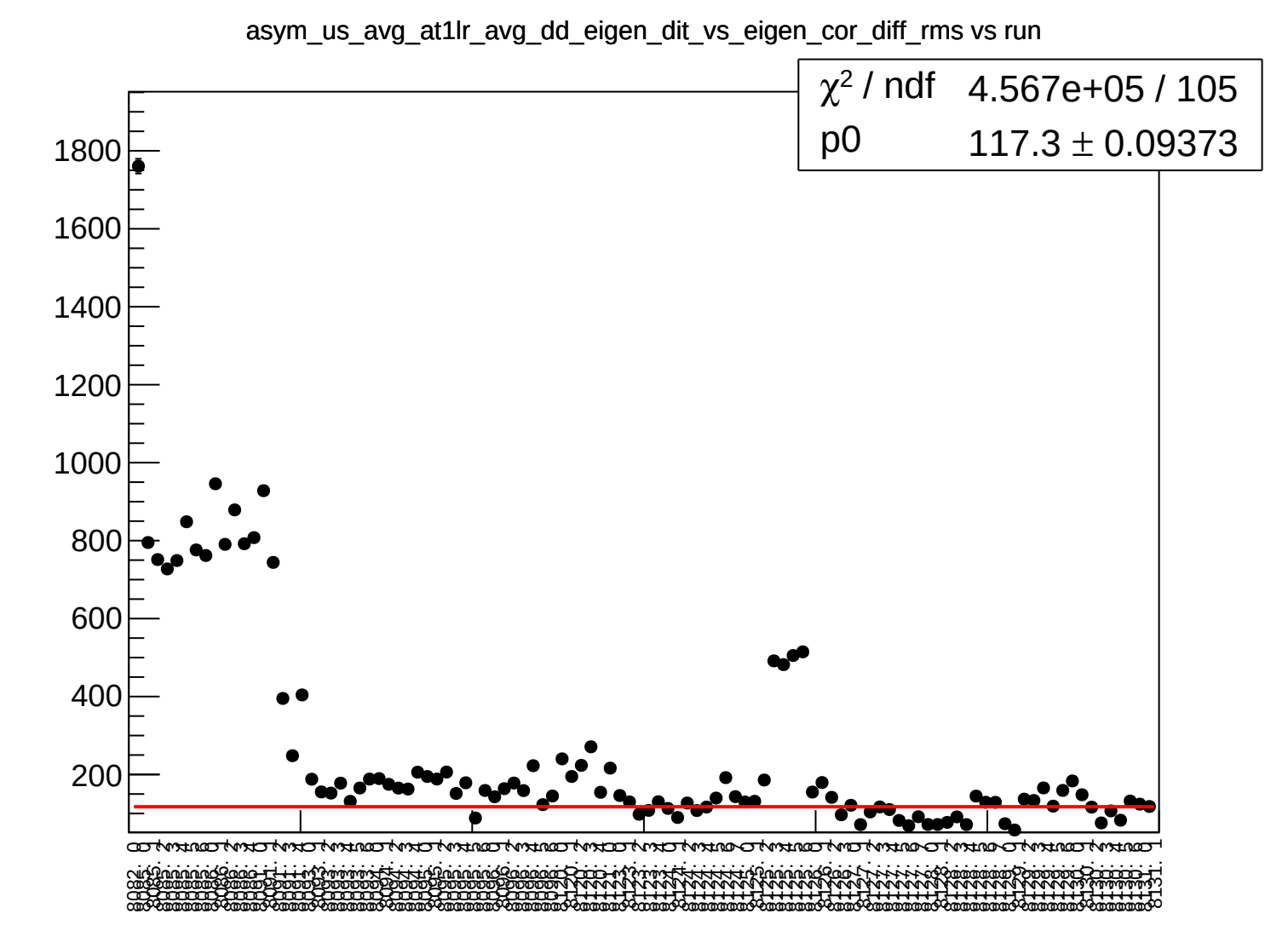

pull1D
Entries 105
Mean −0.002034
Std Dev 0.854

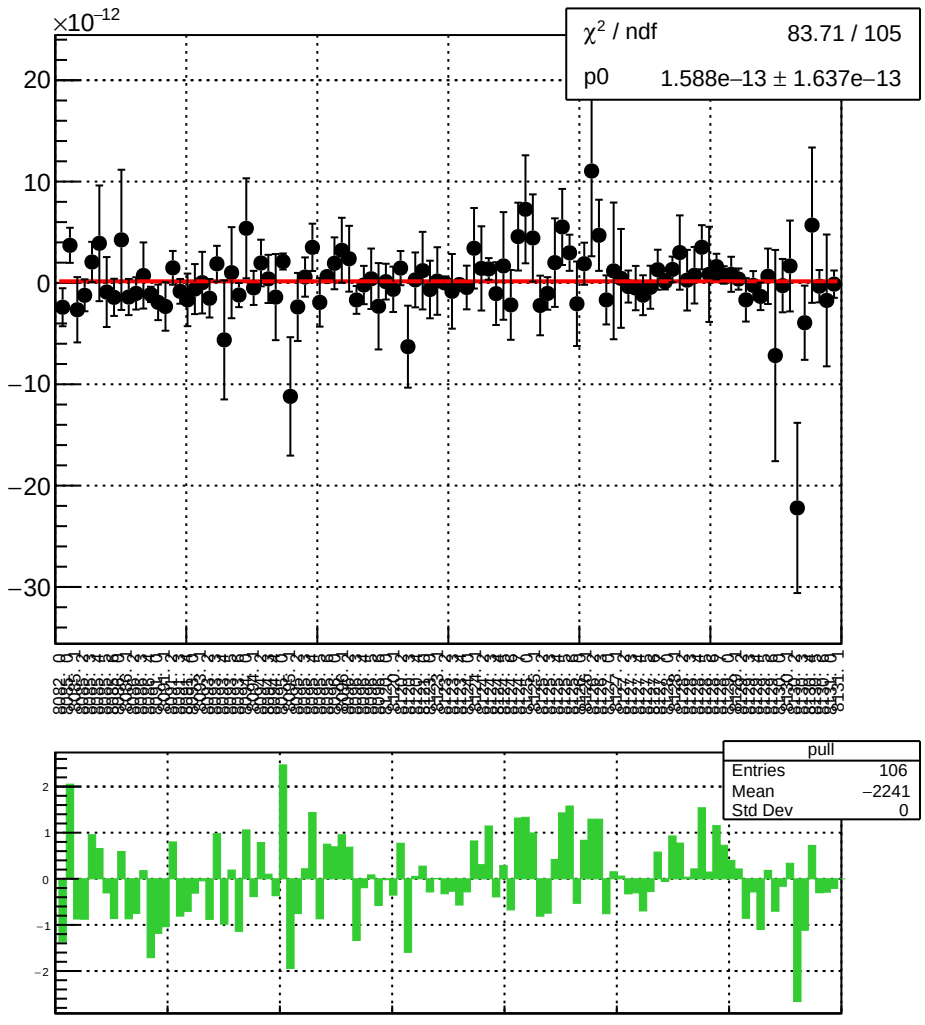

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.093e+04 / 104
p0 0.01068 ± 7.548e–06
0.013
0.012
0.011
0.01
0.009

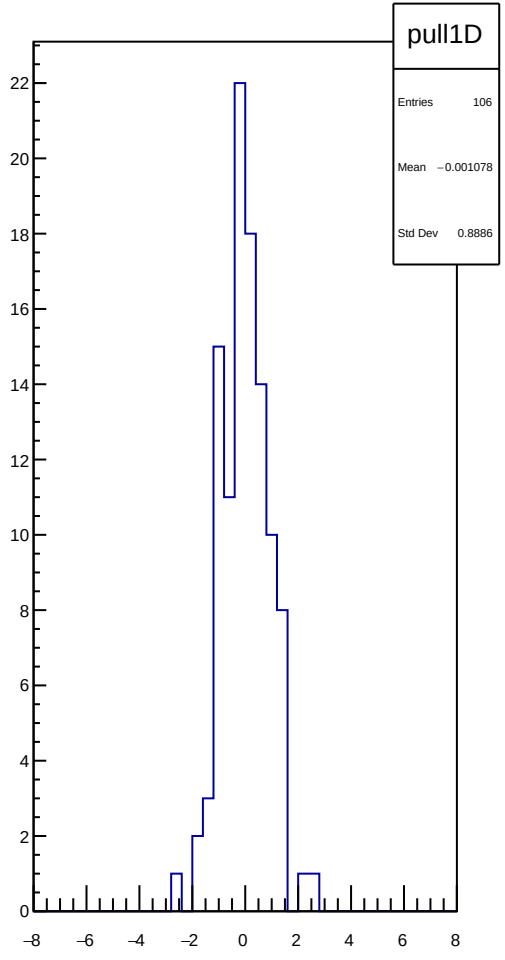

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 101.7 / 105
p0 0.1521 ± 0.1326
pull
Entries 106
Mean 122.7
Std Dev 0
pull1D
Entries 106
Mean −0.03274
Std Dev 0.9788

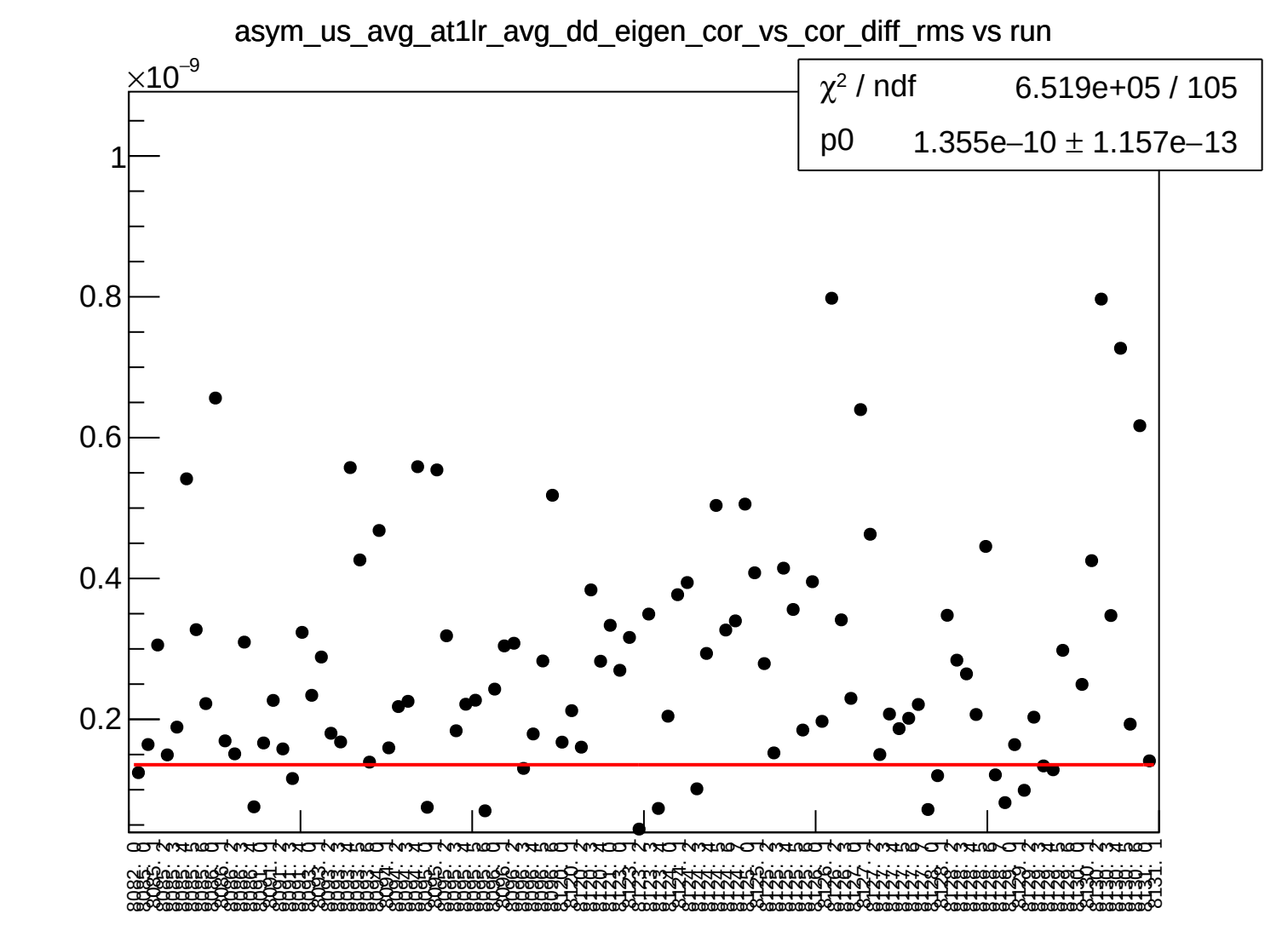

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.567e+05 / 105
p0 117.3 ± 0.09373
1800
1600
1400
1200
1000
800
600
400
200

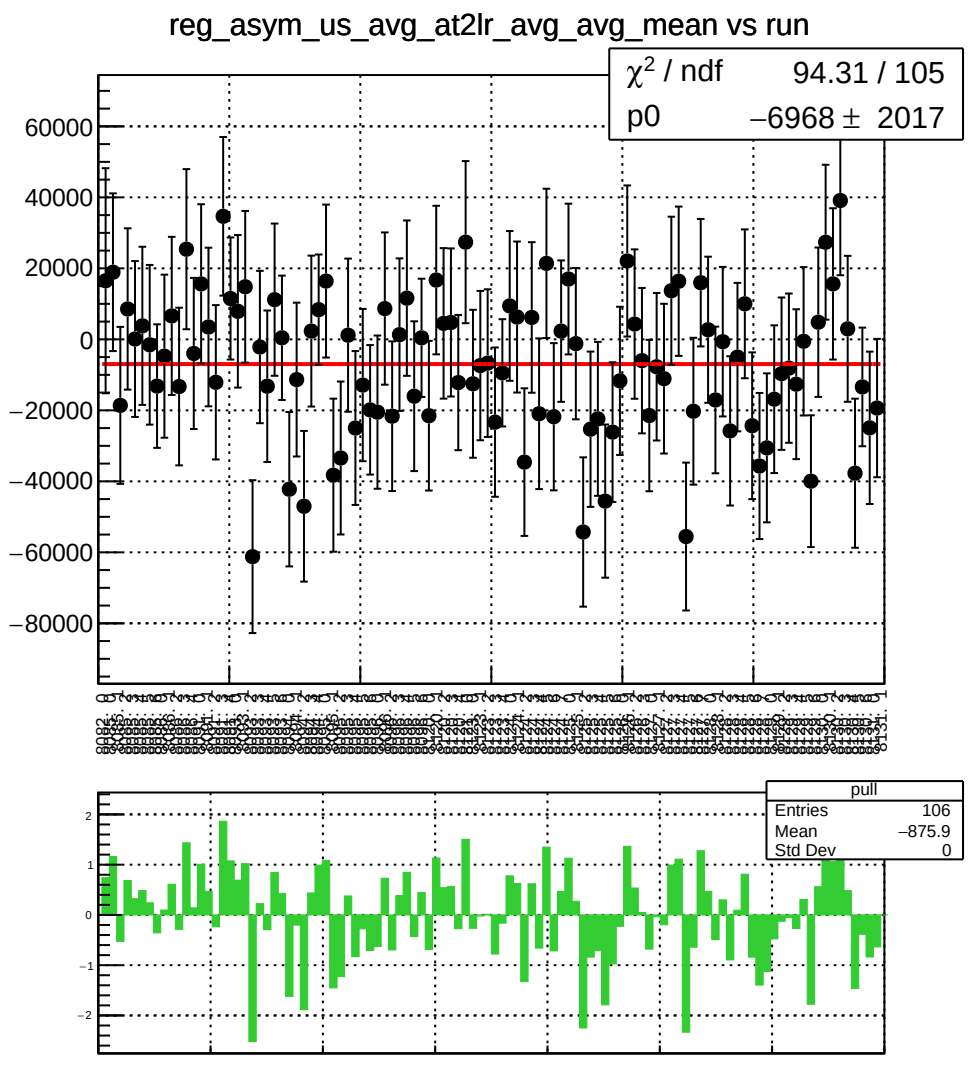

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.7 / 105
p0 0.1521 ± 0.1326
pull
Entries 106
Mean 122.7
Std Dev 0
pull1D
Entries 106
Mean −0.03274
Std Dev 0.9788

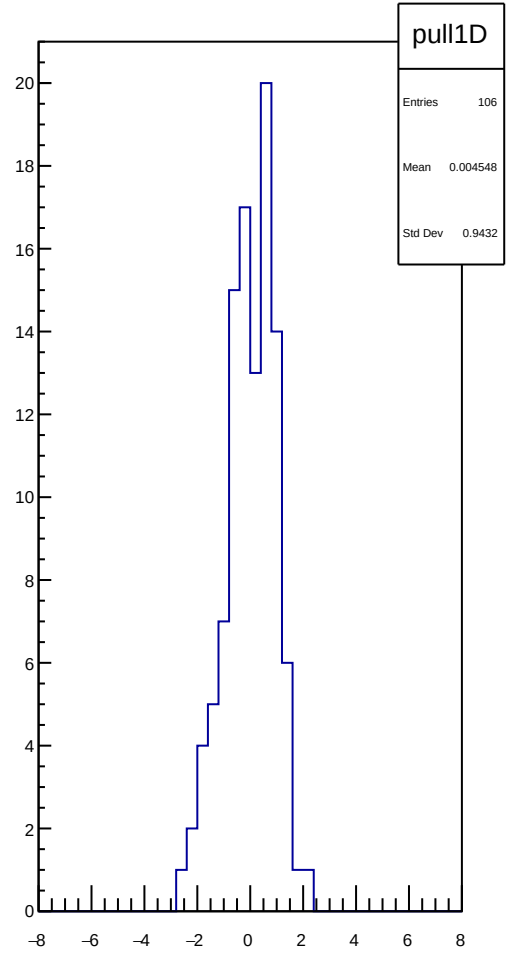

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.567e+05 / 105
p0 117.3 ± 0.09373
1800
1600
1400
1200
1000
800
600
400
200

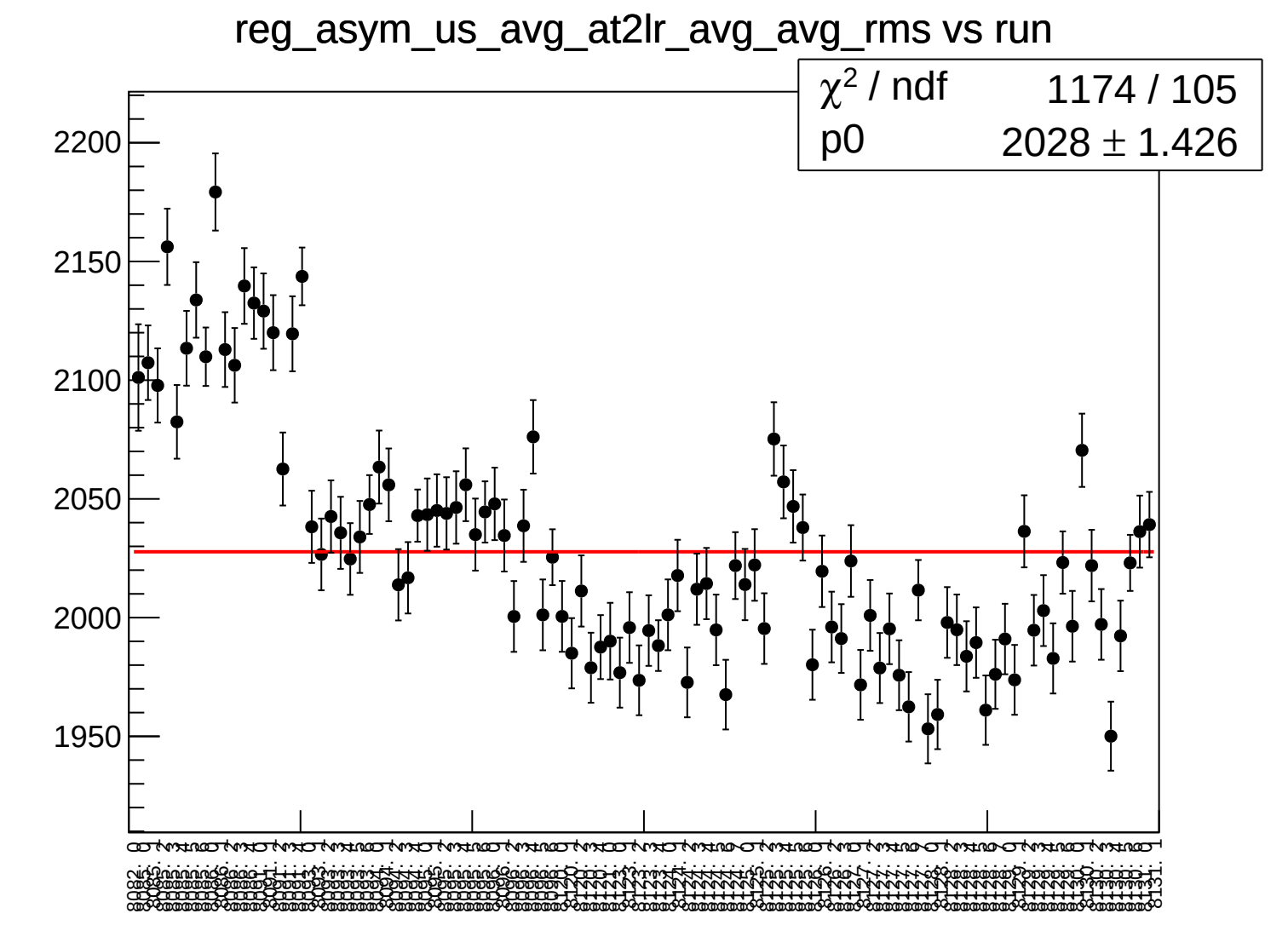

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.71 / 105
p0 1.588e−13 ± 1.637e−13
20
10
0
−10
−20
−30
pull
Entries 106
Mean −2241
Std Dev 0
2
1
0
−1
−2

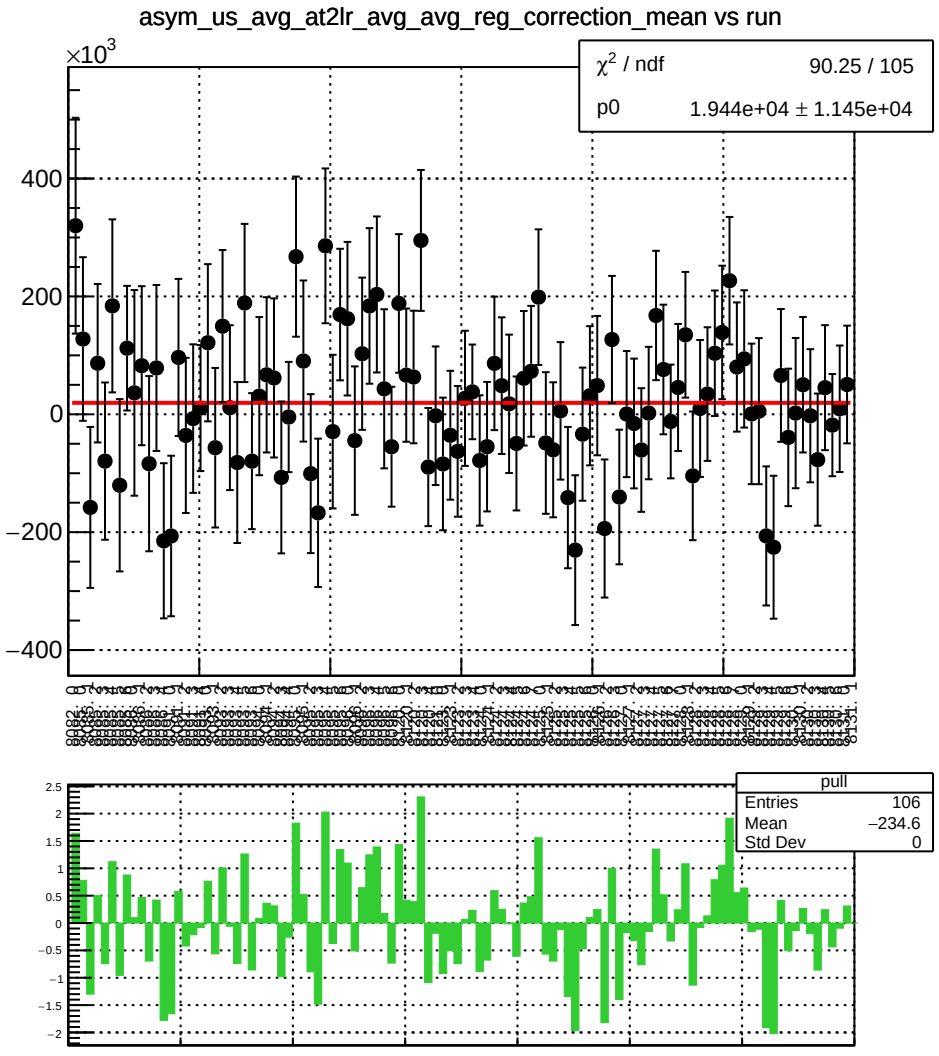

pull1D
Entries 106
Mean −0.001078
Std Dev 0.8886
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

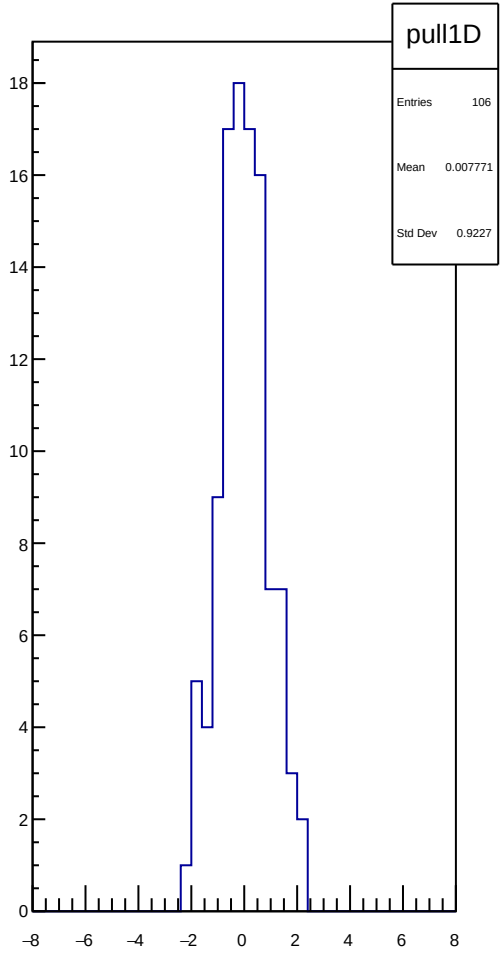

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.519e+05 / 105
p0 1.355e−10 ± 1.157e−13
1
0.8
0.6
0.4
0.2

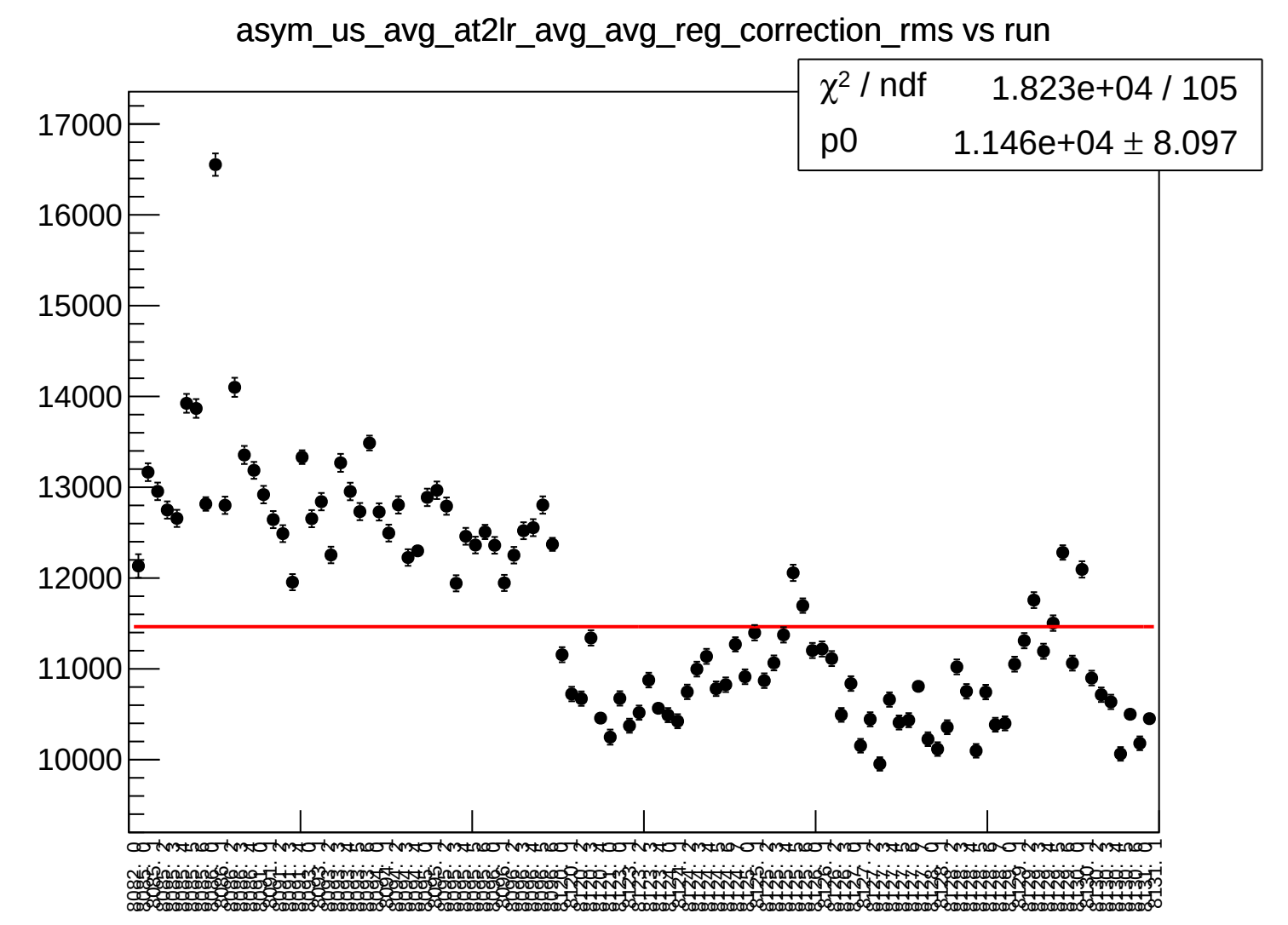

reg_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 94.31 / 105
p0 −6968 ± 2017
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 106
Mean −875.9
Std Dev 0
2
1
0
−1
−2

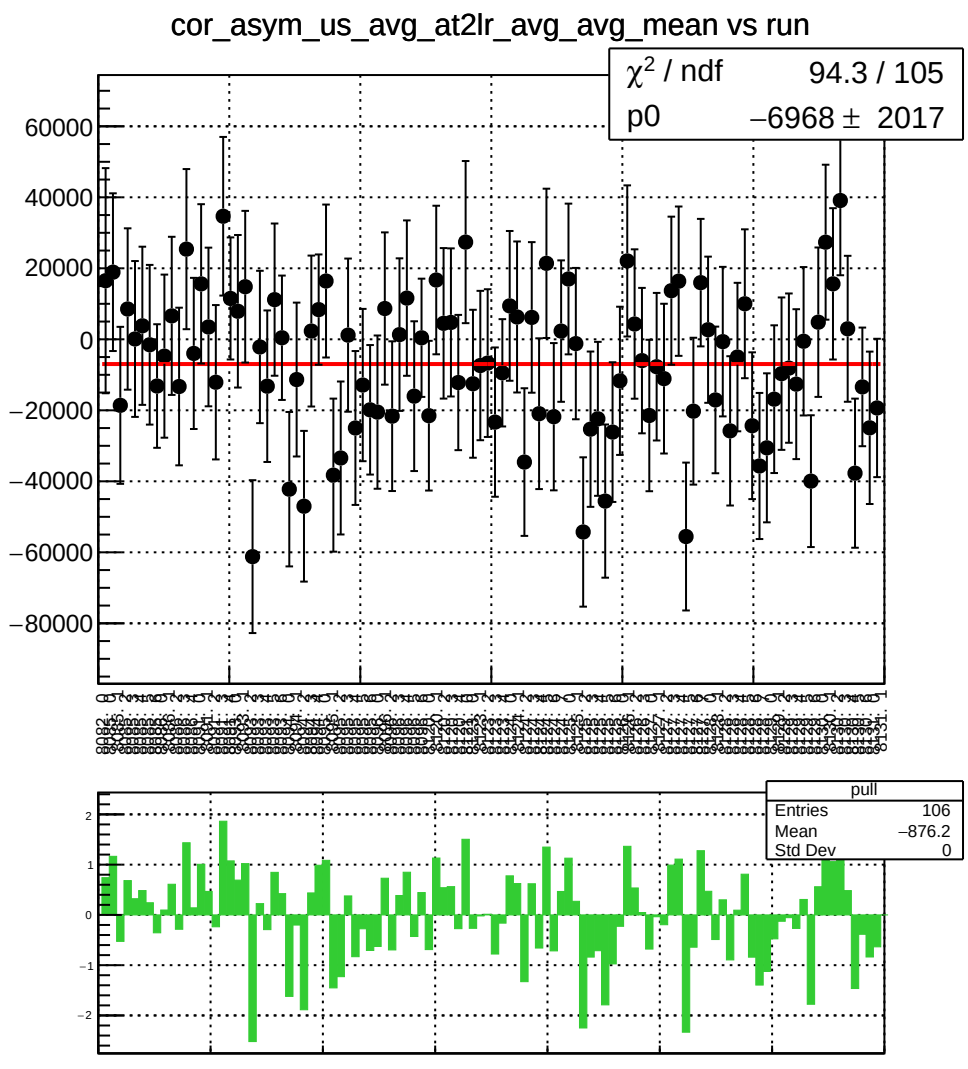

pull1D
Entries 106
Mean 0.004548
Std Dev 0.9432
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

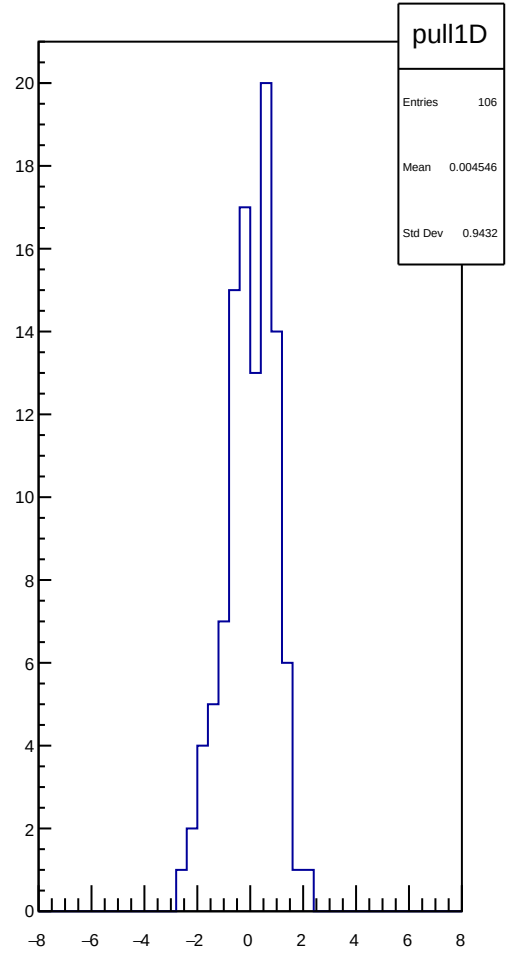

reg_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 1174 / 105
p0 2028 ± 1.426
2200
2150
2100
2050
2000
1950

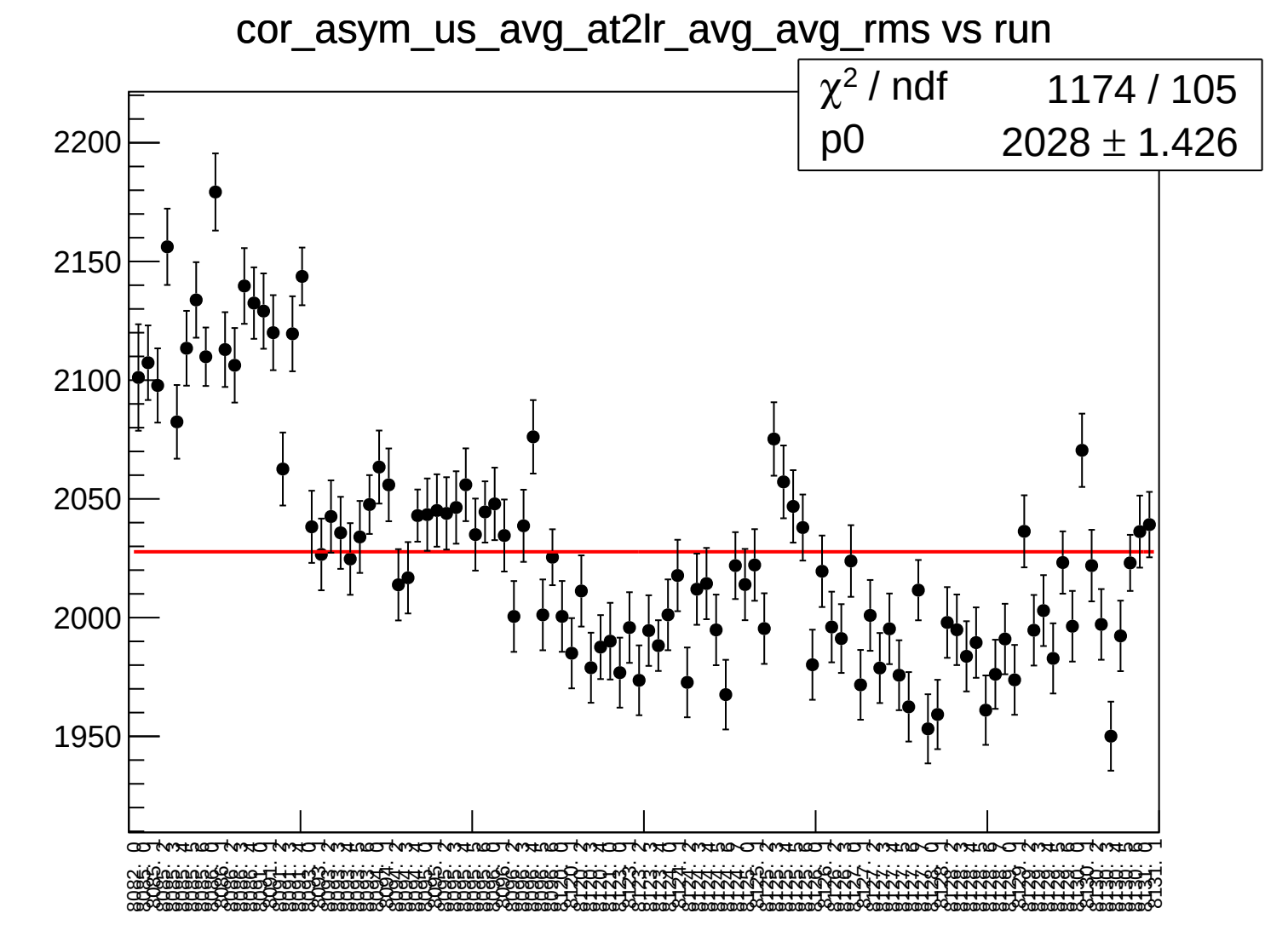

asym_us_avg_at2lr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 90.25 / 105
p0 1.944e+04 ± 1.145e+04
400
200
0
−200
−400
pull
Entries 106
Mean −234.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

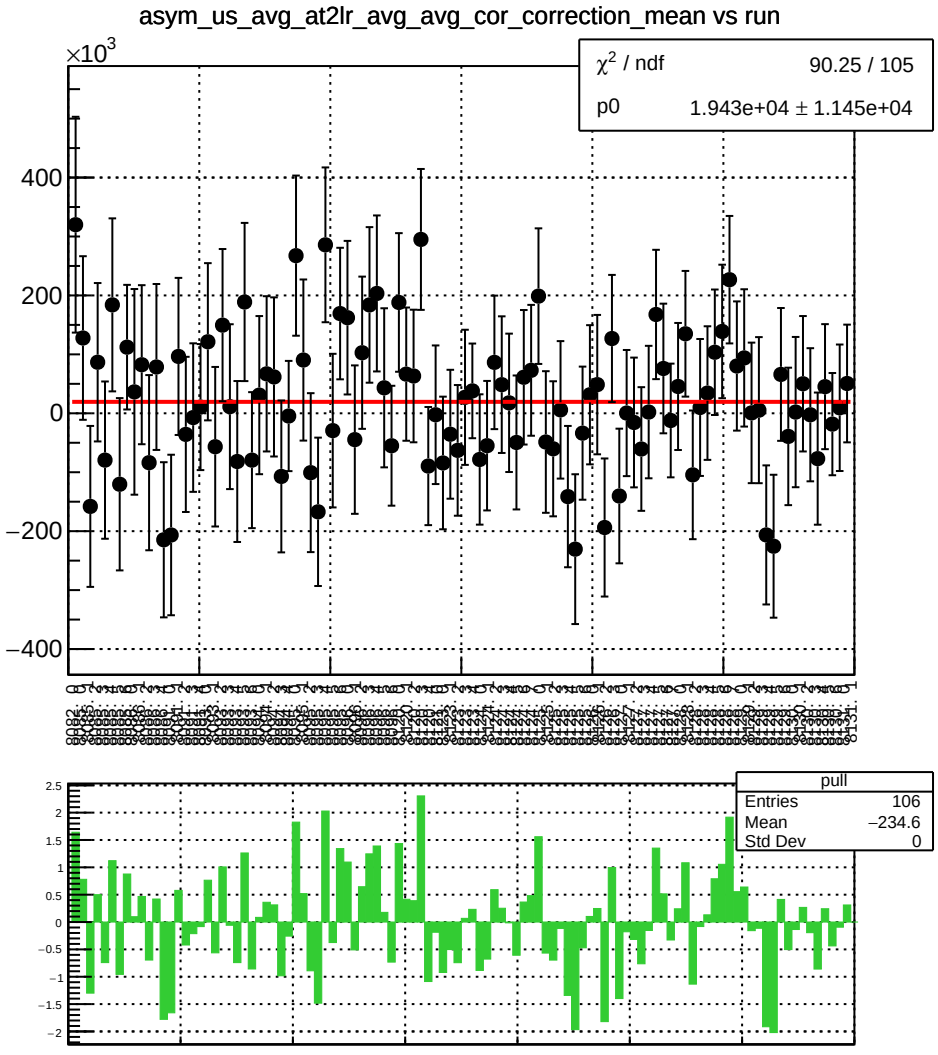

pull1D
Entries 106
Mean 0.007771
Std Dev 0.9227
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

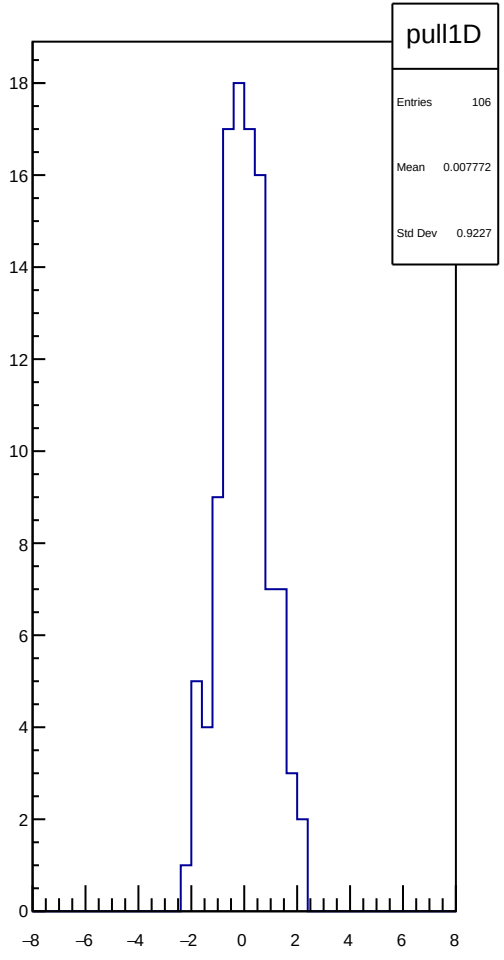

asym_us_avg_at2lr_avg_avg_reg_correction_rms vs run
χ² / ndf 1.823e+04 / 105
p0 1.146e+04 ± 8.097
17000
16000
15000
14000
13000
12000
11000
10000

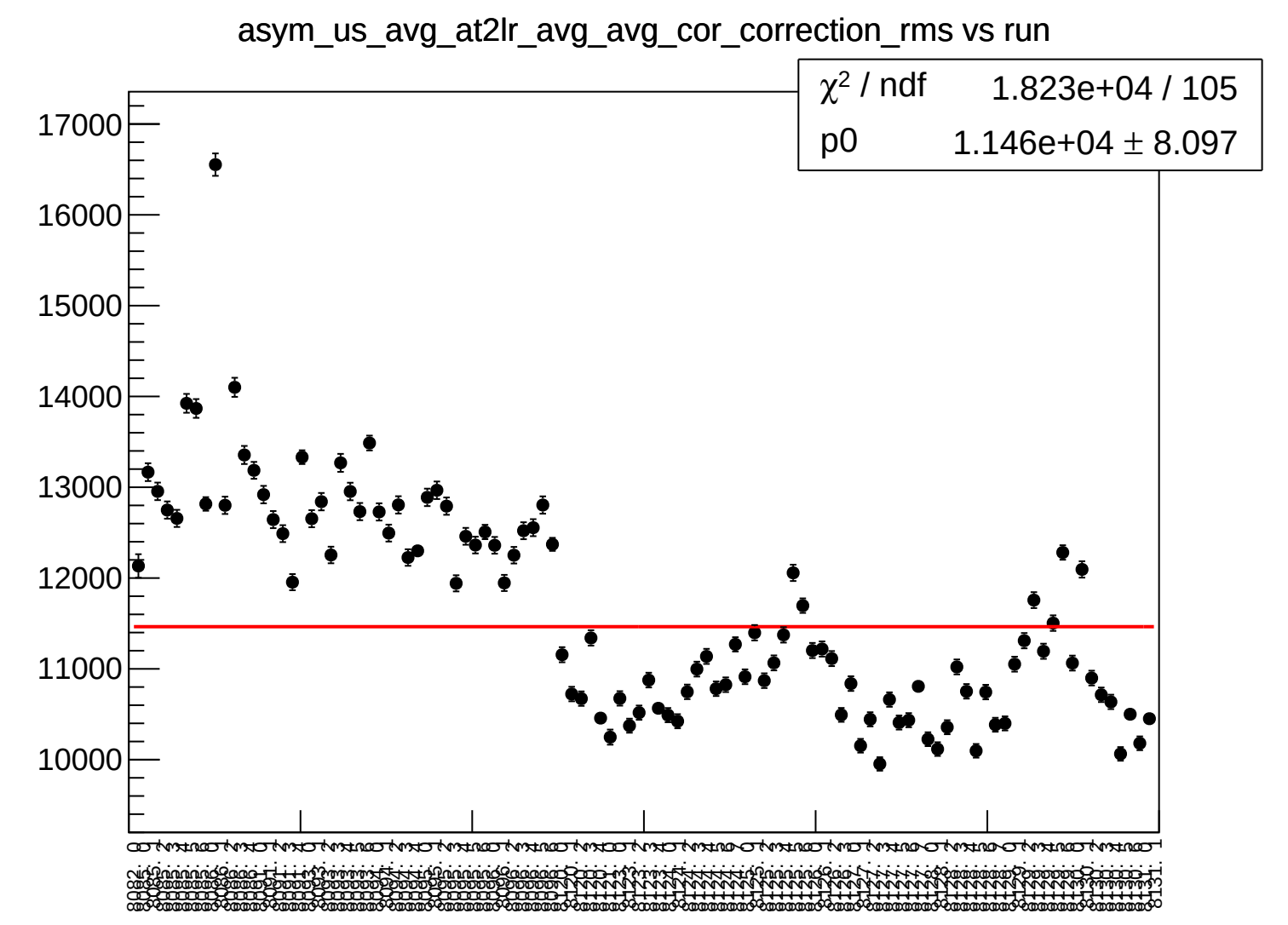

cor_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 94.3 / 105
p0 −6968 ± 2017
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 106
Mean −876.2
Std Dev 0
2
1
0
−1
−2

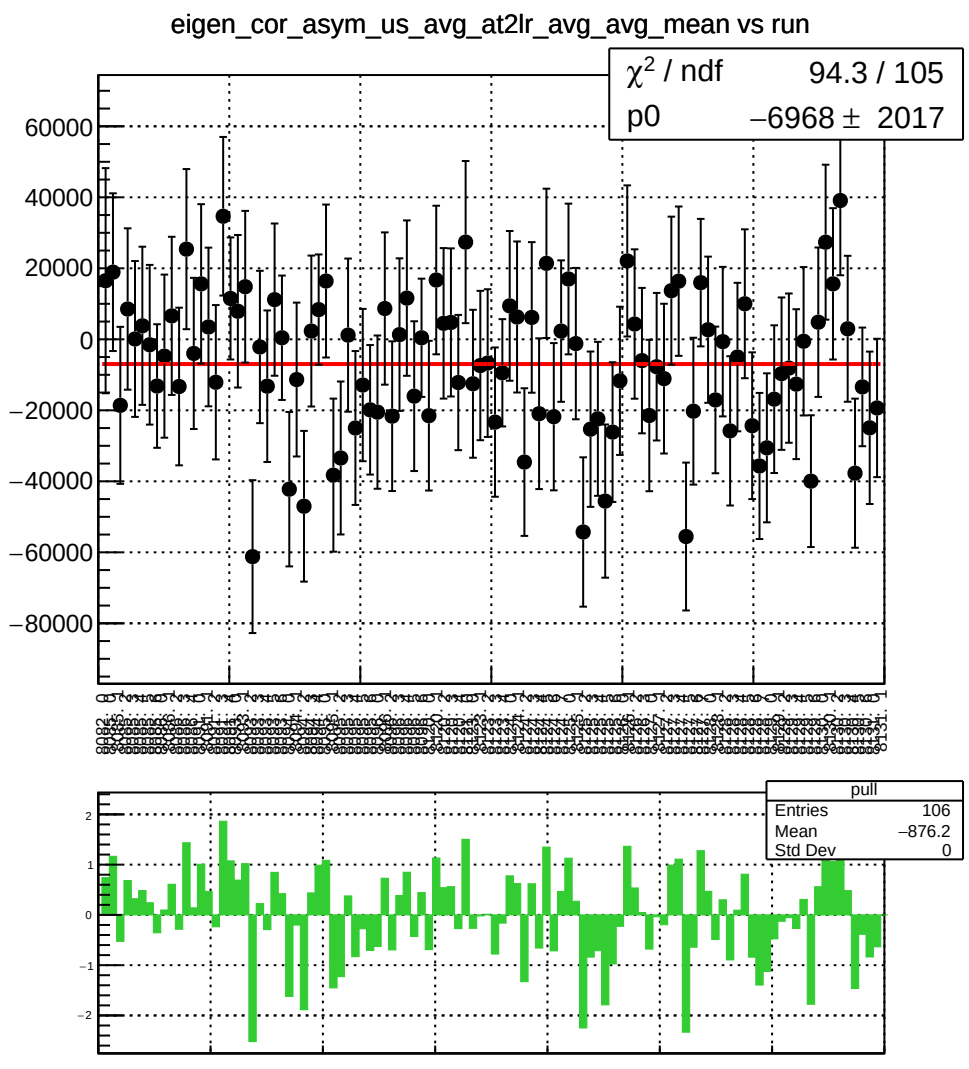

pull1D
Entries 106
Mean 0.004546
Std Dev 0.9432
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

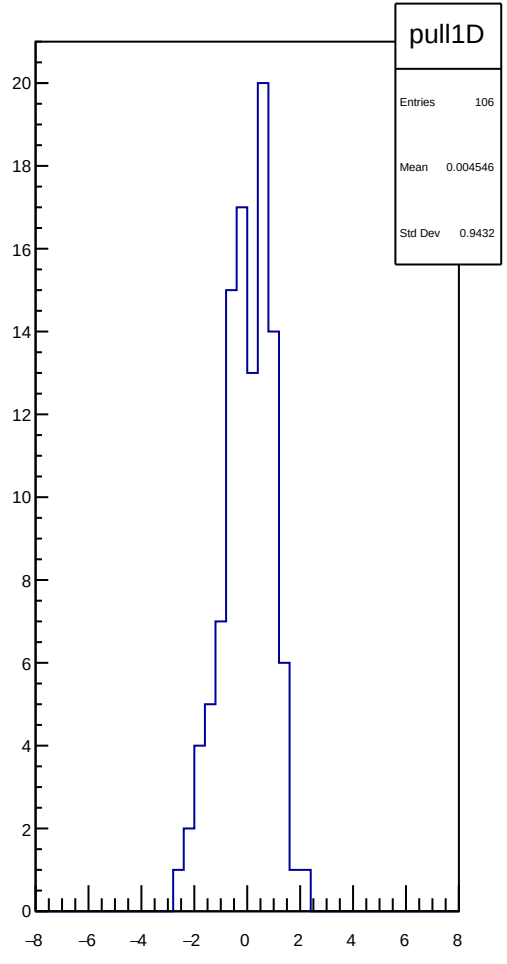

cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 1174 / 105
p0 2028 ± 1.426
2200
2150
2100
2050
2000
1950

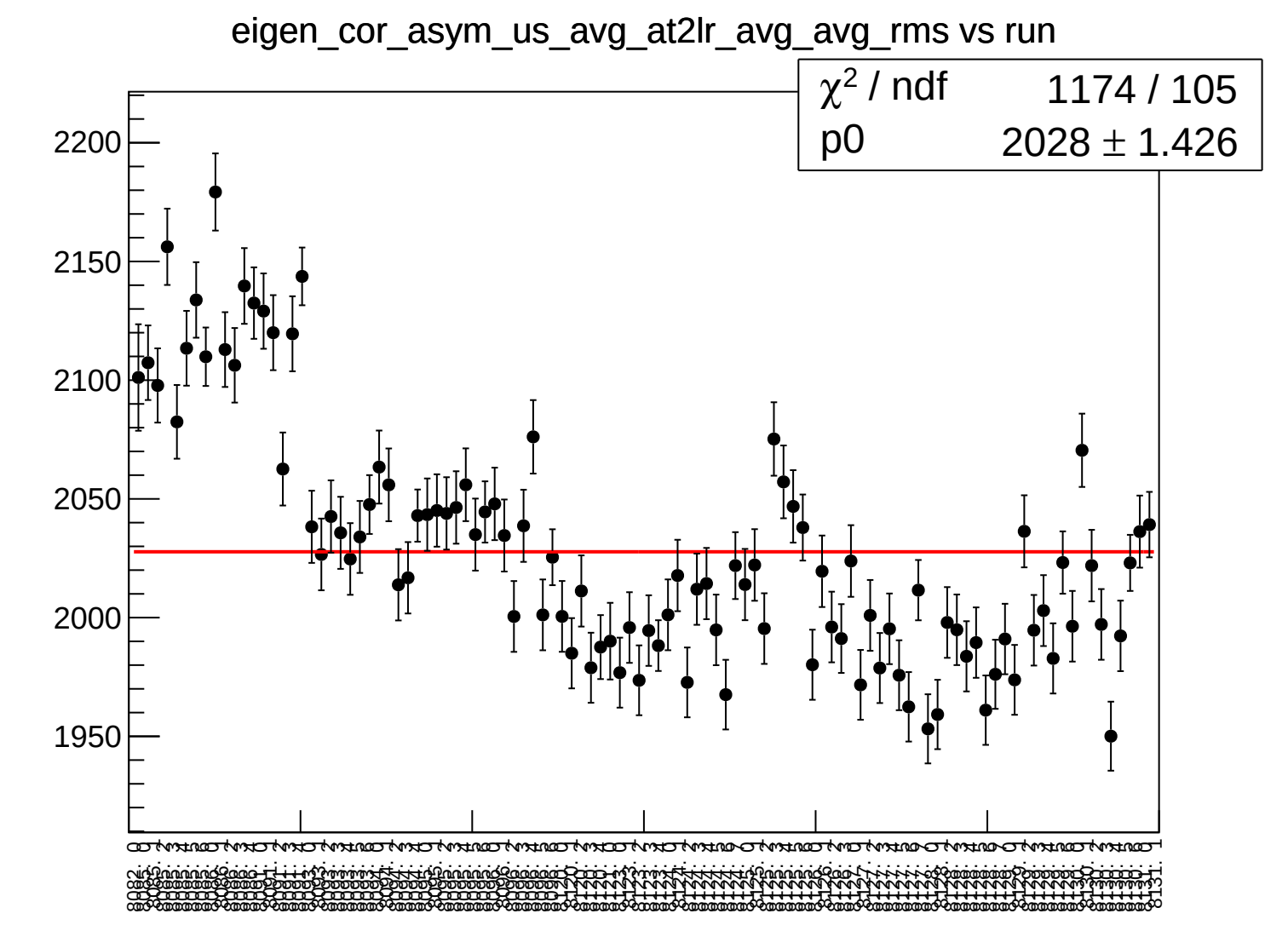

asym_us_avg_at2lr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 90.25 / 105
p0 1.943e+04 ± 1.145e+04
400
200
0
−200
−400
pull
Entries 106
Mean −234.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

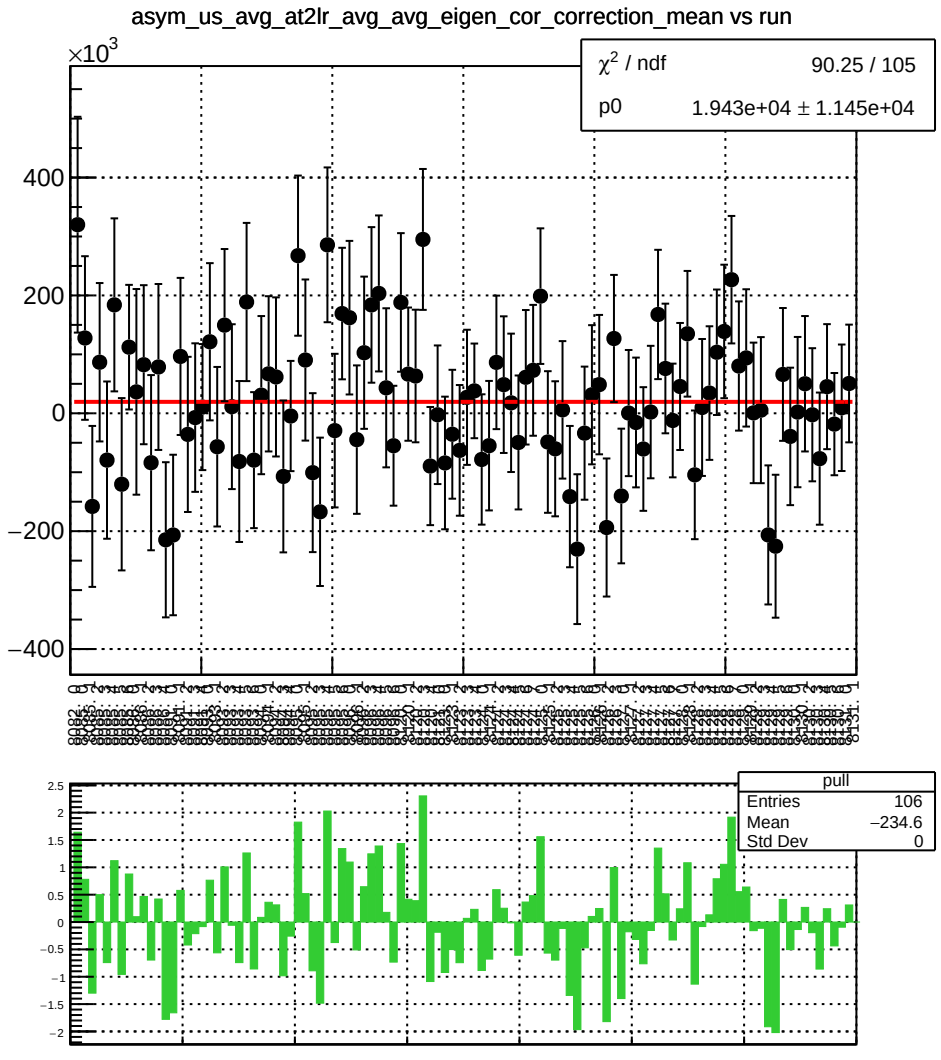

pull1D
Entries 106
Mean 0.007772
Std Dev 0.9227
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

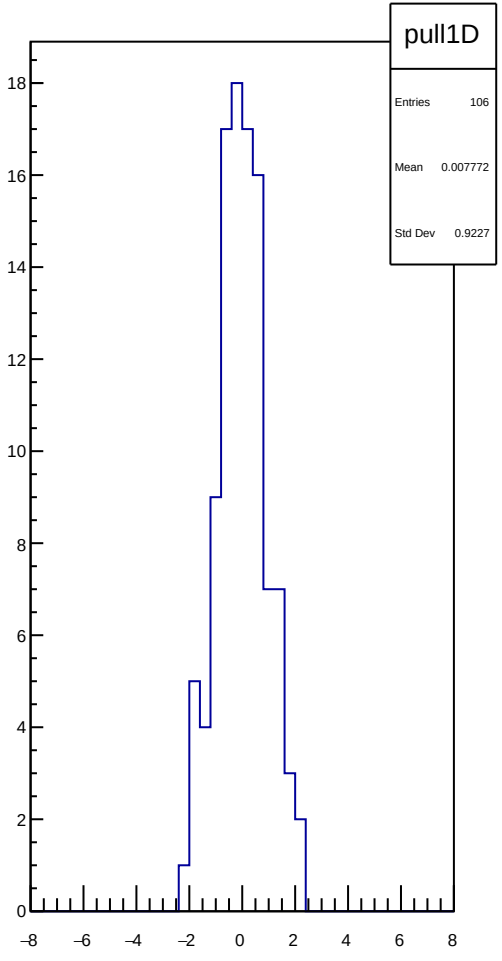

asym_us_avg_at2lr_avg_avg_cor_correction_rms vs run
χ² / ndf 1.823e+04 / 105
p0 1.146e+04 ± 8.097
17000
16000
15000
14000
13000
12000
11000
10000

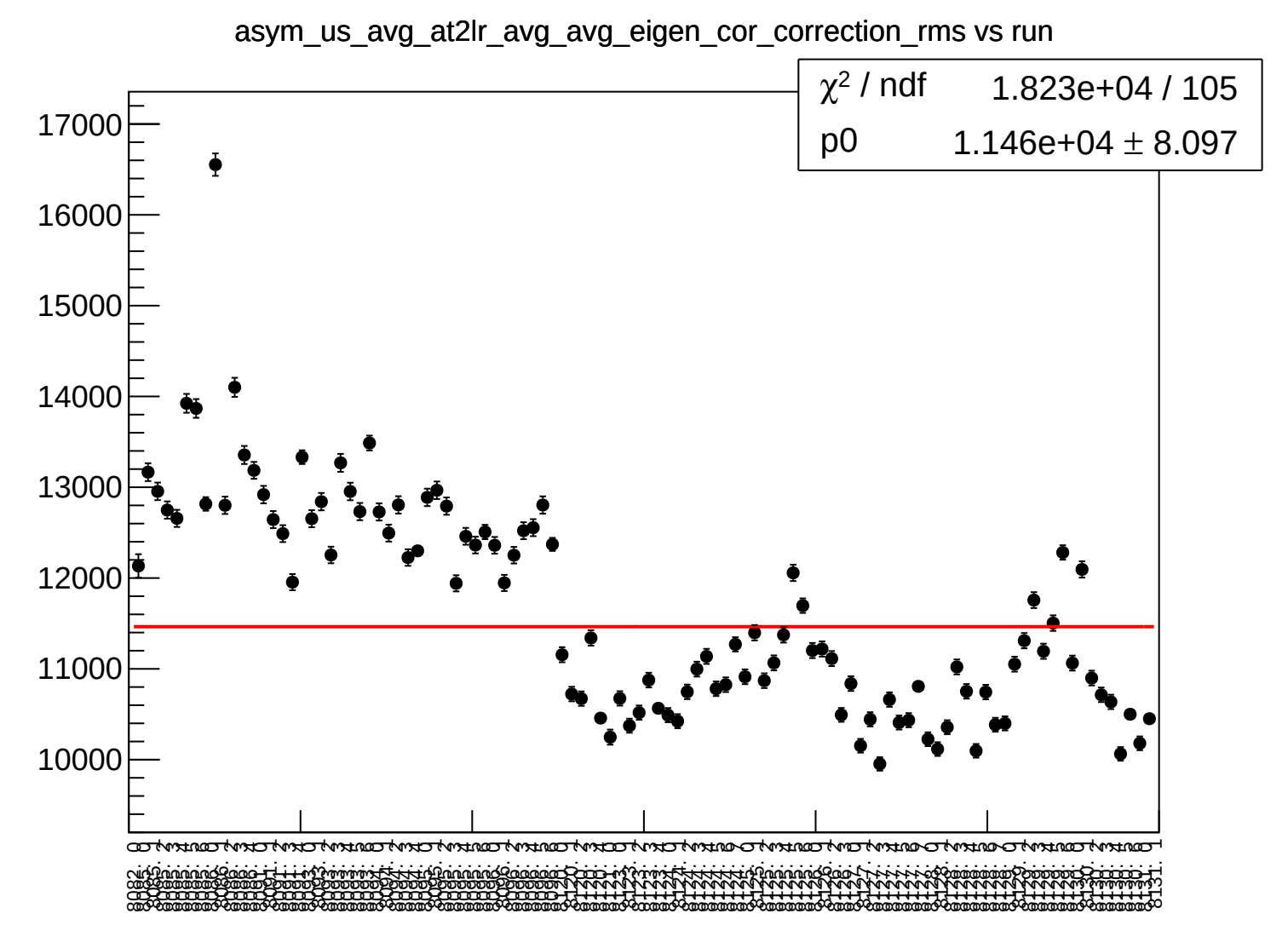

eigen_cor_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 94.3 / 105
p0 −6968 ± 2017
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 106
Mean −876.2
Std Dev 0
2
1
0
−1
−2

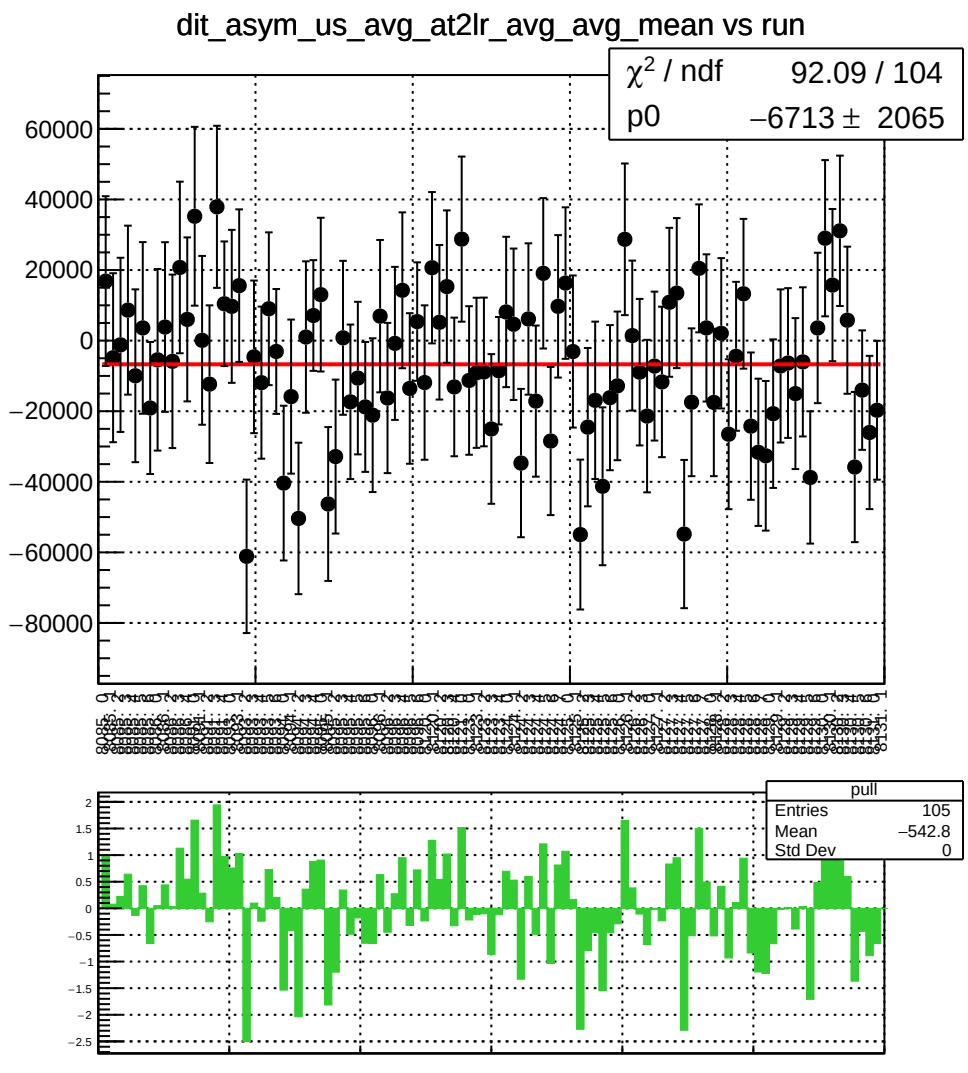

pull1D
Entries 106
Mean 0.004546
Std Dev 0.9432
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

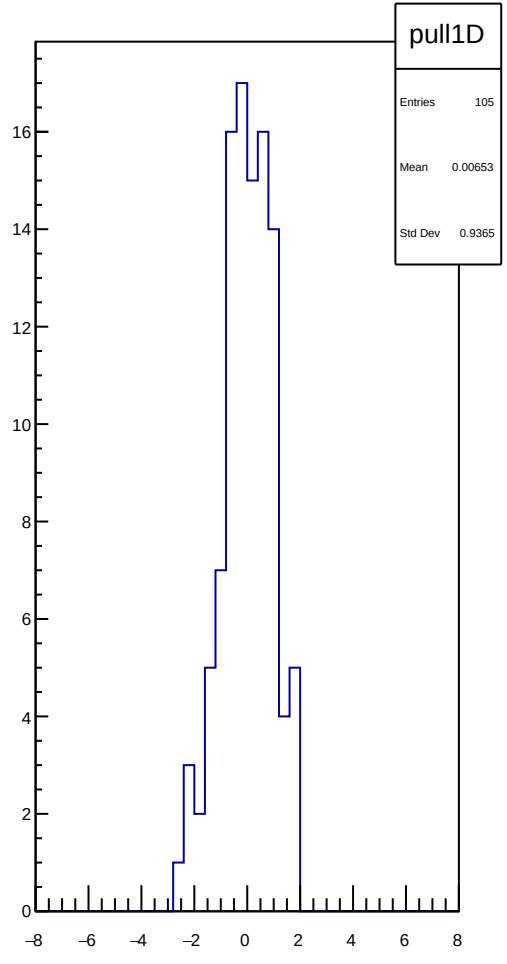

eigen_cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 1174 / 105
p0 2028 ± 1.426
2200
2150
2100
2050
2000
1950

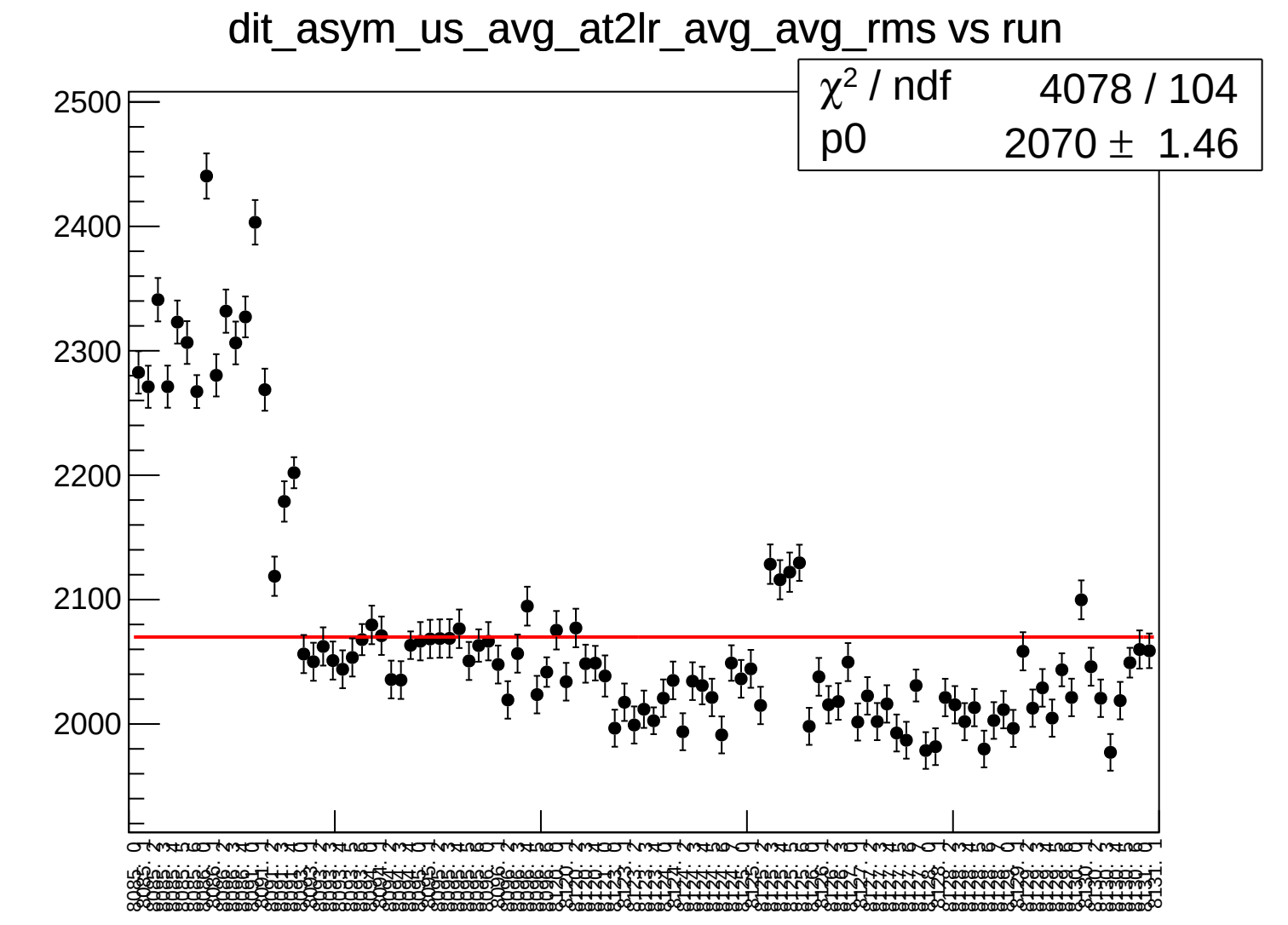

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 90.25 / 105
p0 1.943e+04 ± 1.145e+04
400
200
0
−200
−400
pull
Entries 106
Mean −234.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

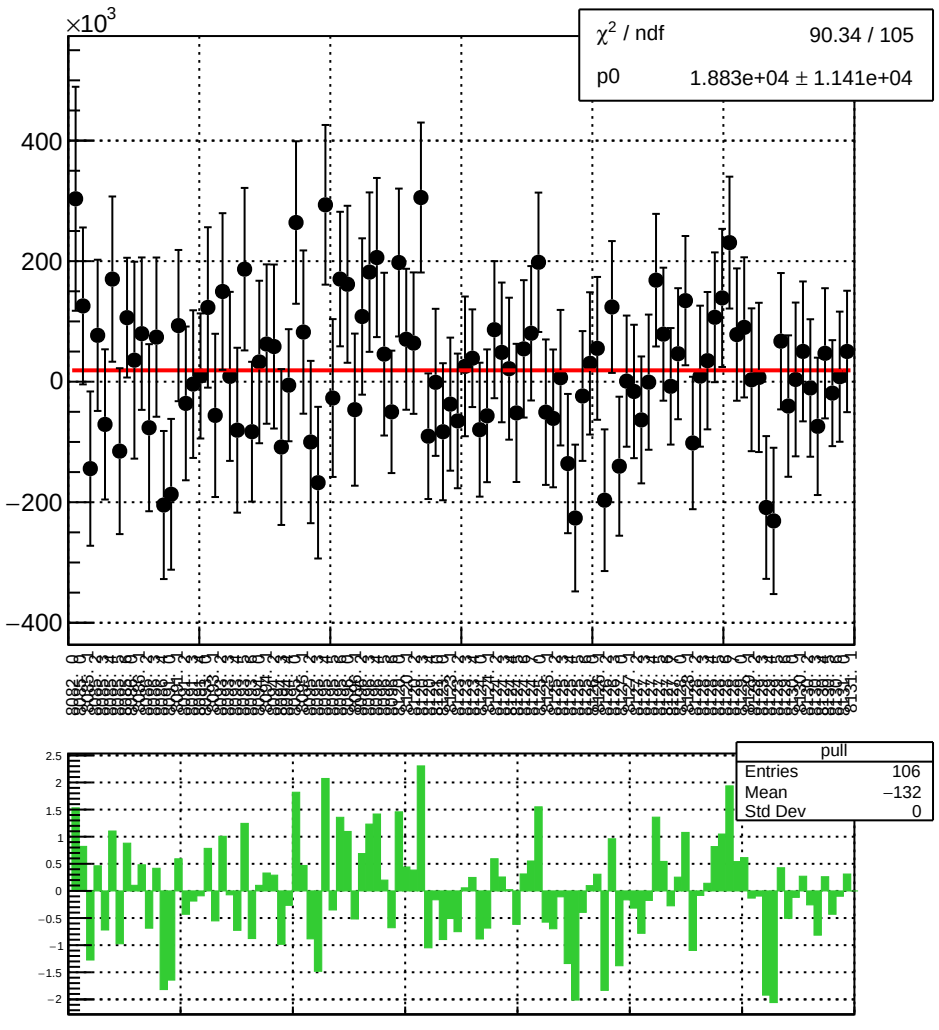

pull1D
Entries 106
Mean 0.007772
Std Dev 0.9227
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

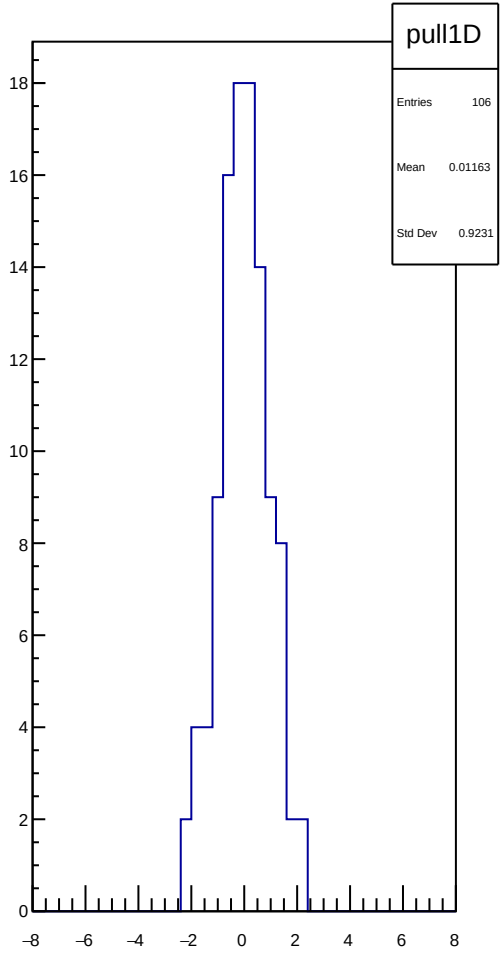

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.823e+04 / 105
p0 1.146e+04 ± 8.097
17000
16000
15000
14000
13000
12000
11000
10000

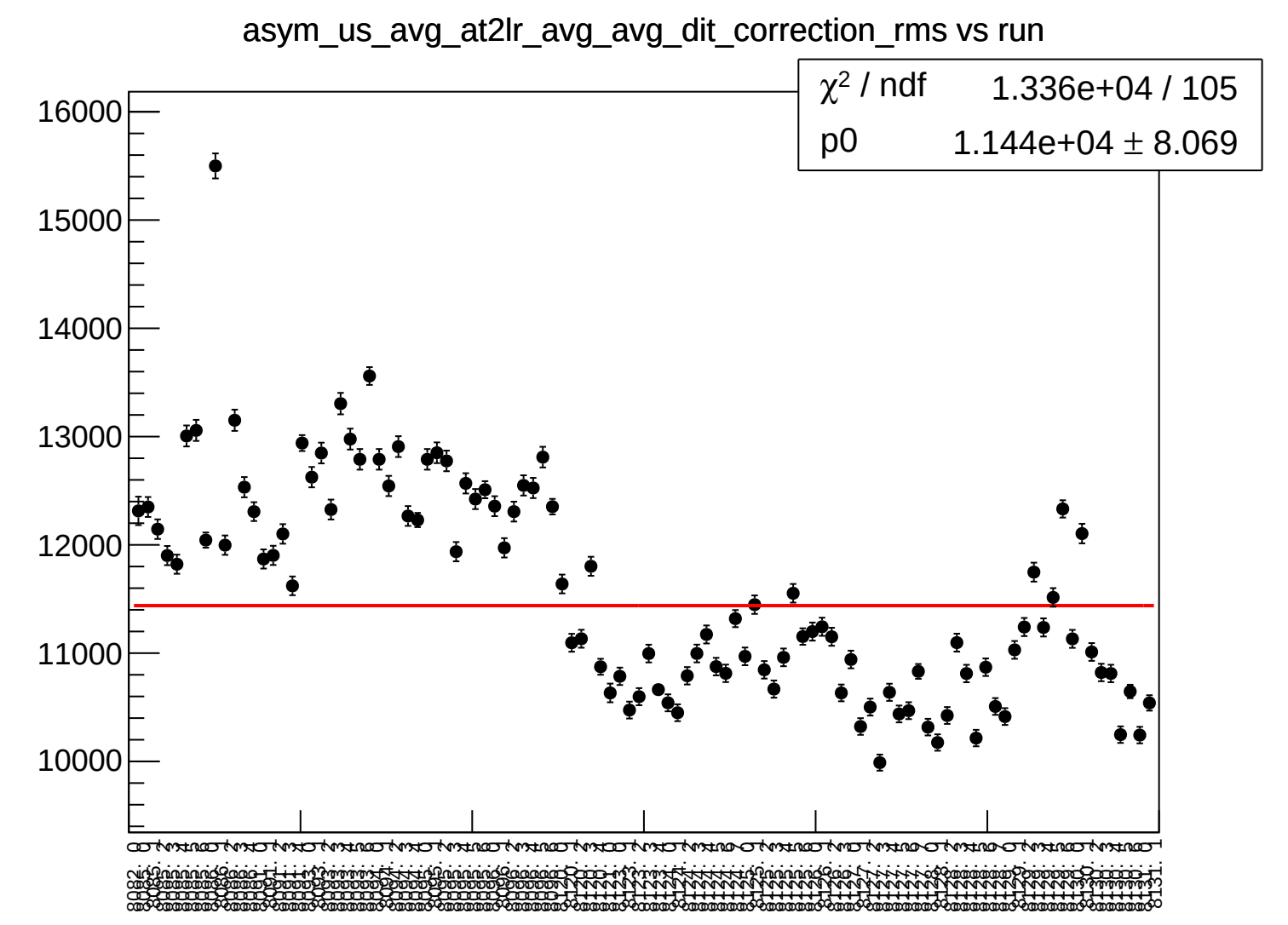

dit_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 92.09 / 104
p0 −6713 ± 2065
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 105
Mean −542.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

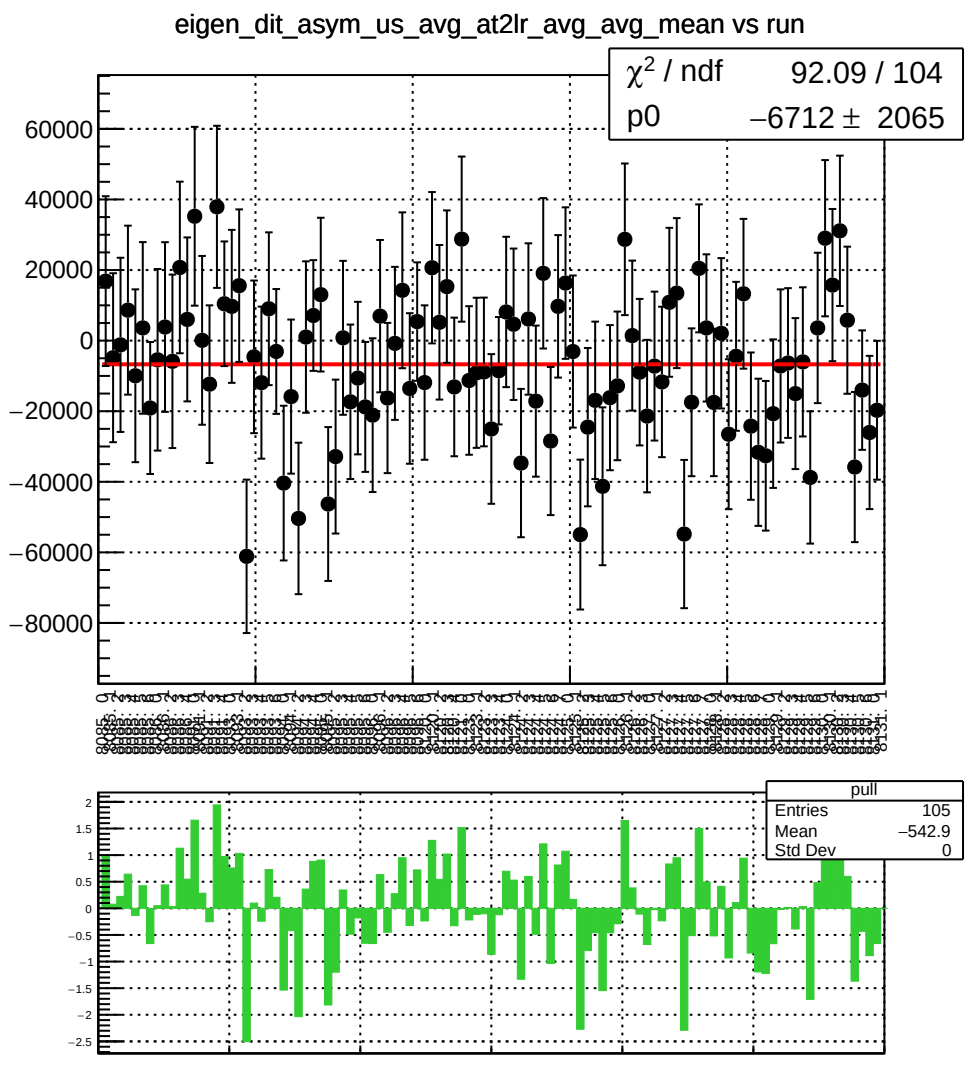

pull1D
Entries 105
Mean 0.00653
Std Dev 0.9365
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

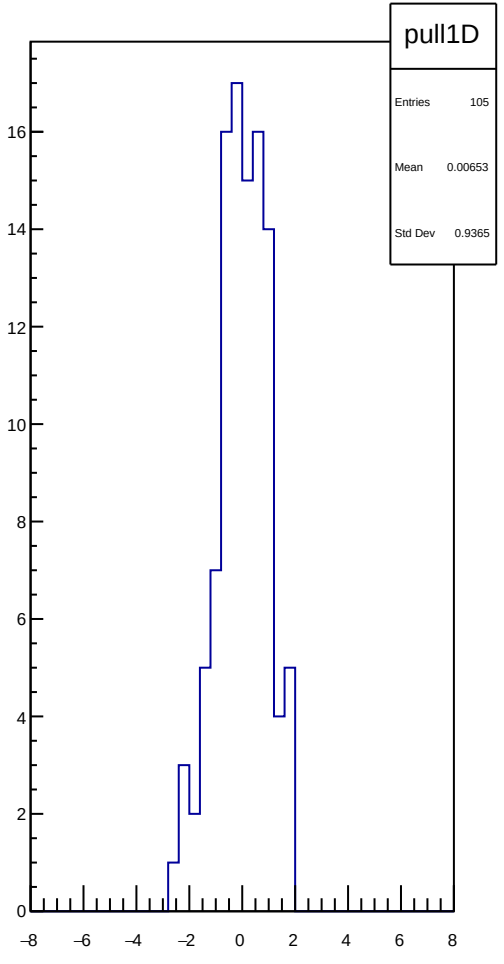

dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 4078 / 104
p0 2070 ± 1.46
2500
2400
2300
2200
2100
2000

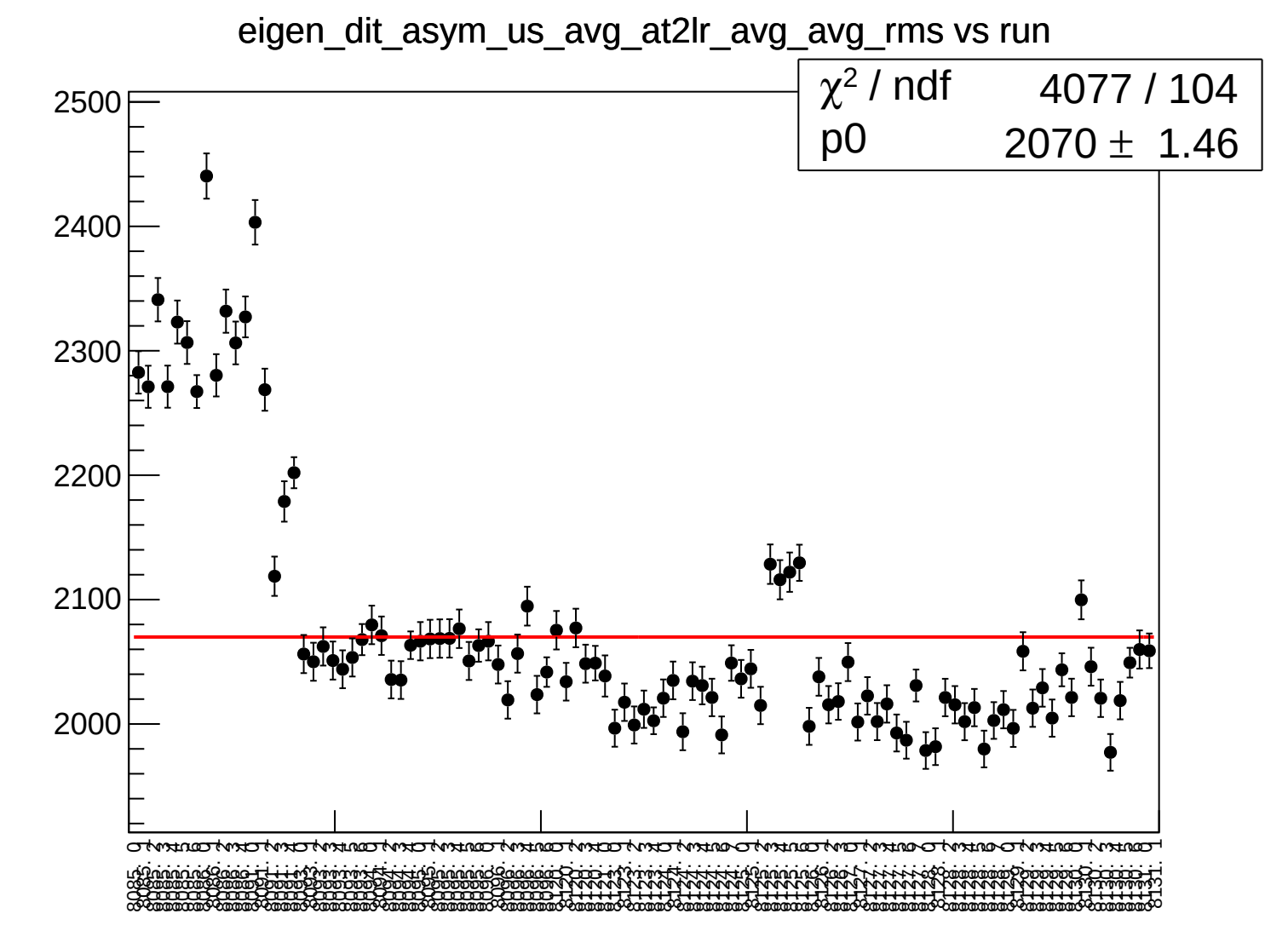

asym_us_avg_at2lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 90.34 / 105
p0 1.883e+04 ± 1.141e+04
400
200
0
−200
−400
pull
Entries 106
Mean −132
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

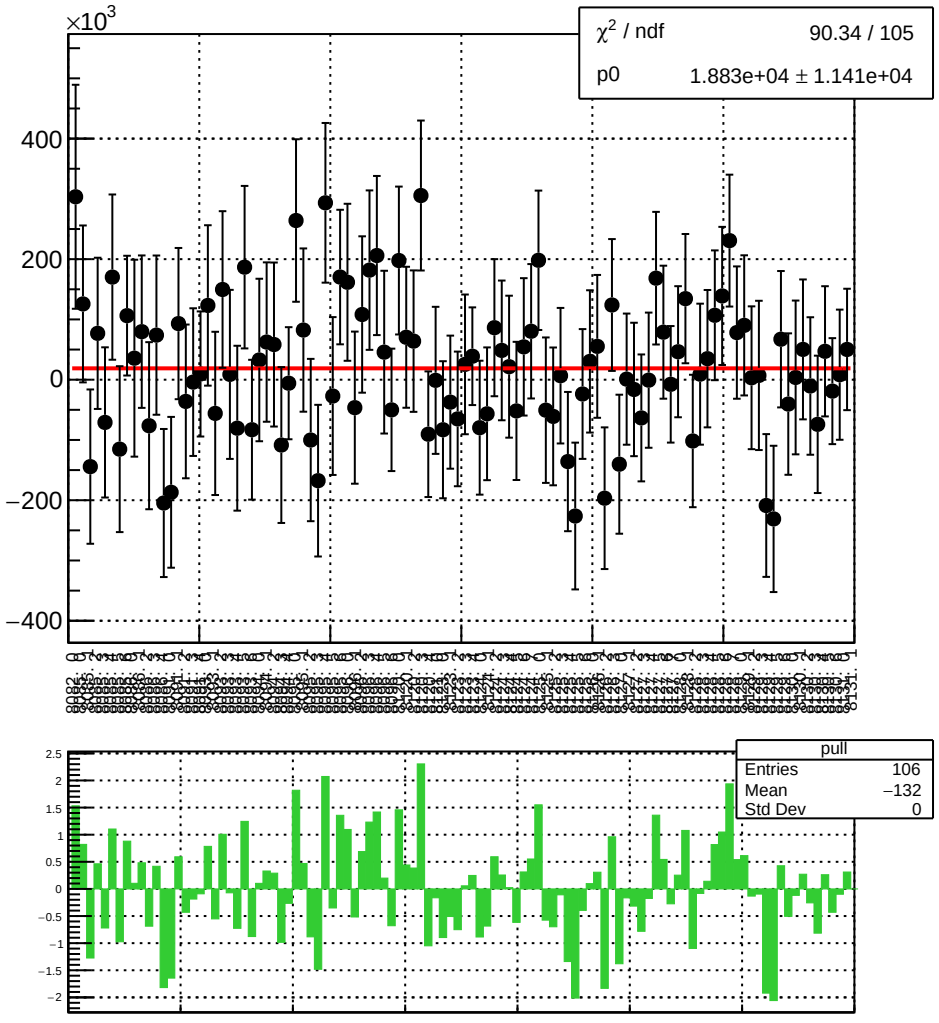

pull1D
Entries 106
Mean 0.01163
Std Dev 0.9231
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

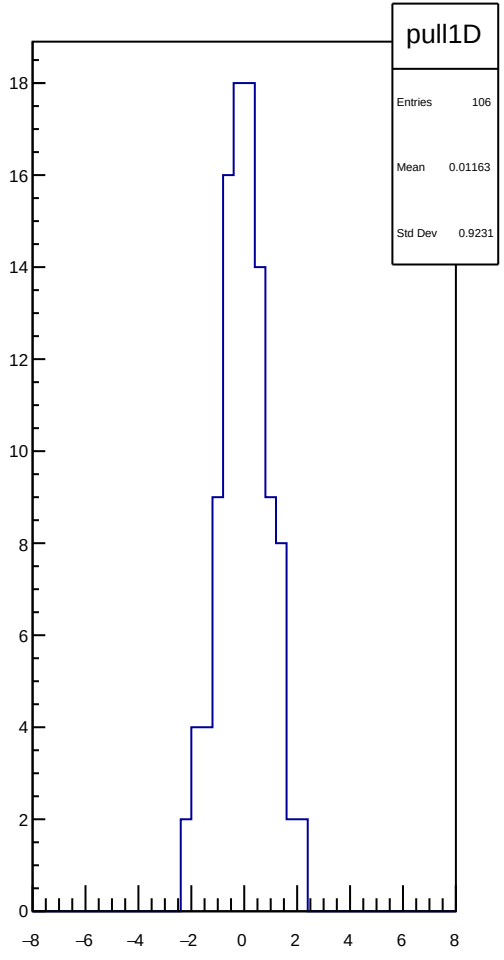

asym_us_avg_at2lr_avg_avg_dit_correction_rms vs run
χ² / ndf 1.336e+04 / 105
p0 1.144e+04 ± 8.069
16000
15000
14000
13000
12000
11000
10000

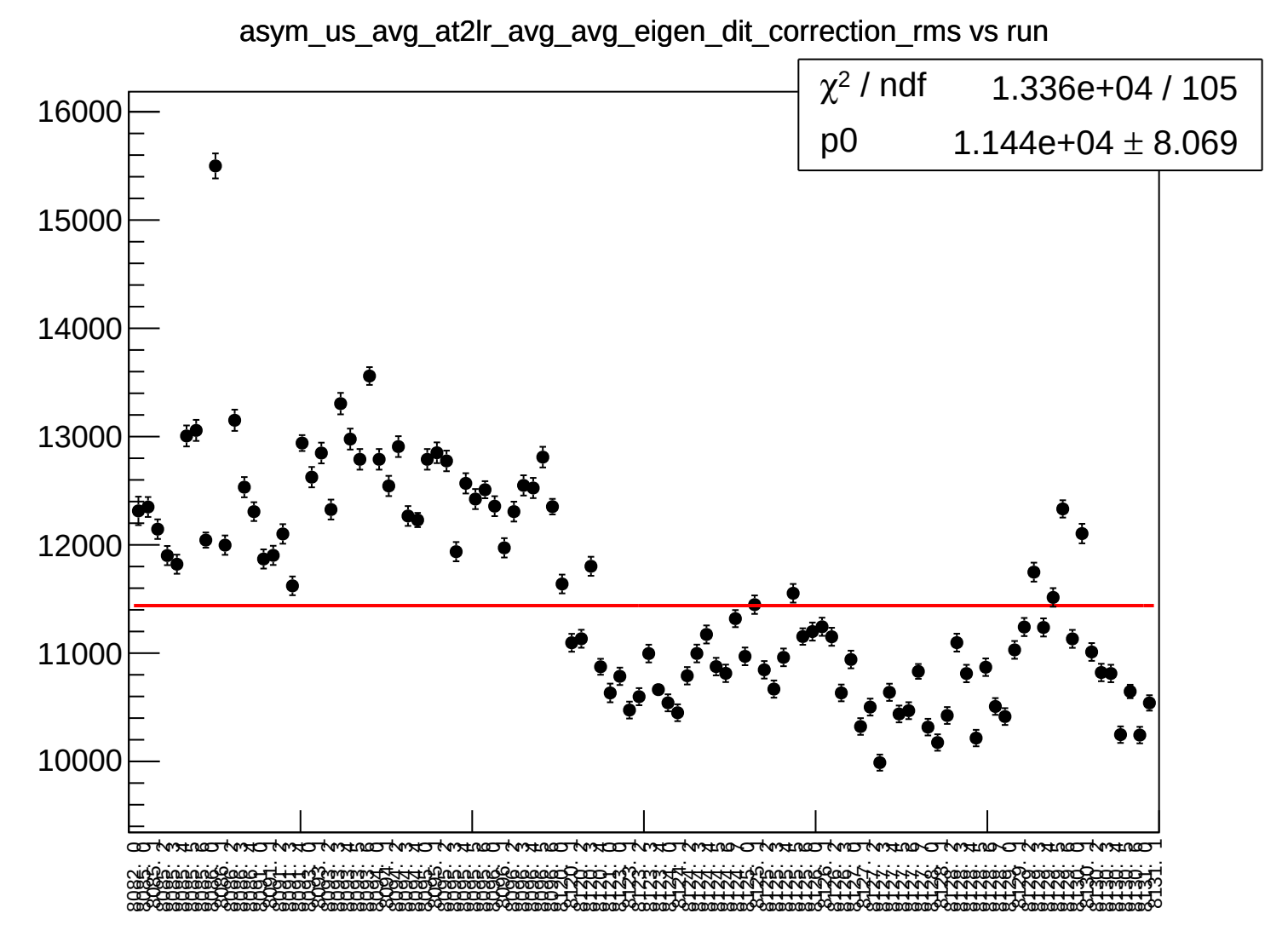

eigen_dit_asym_us_avg_at2lr_avg_avg_mean vs run
χ² / ndf 92.09 / 104
p0 −6712 ± 2065
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 105
Mean −542.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

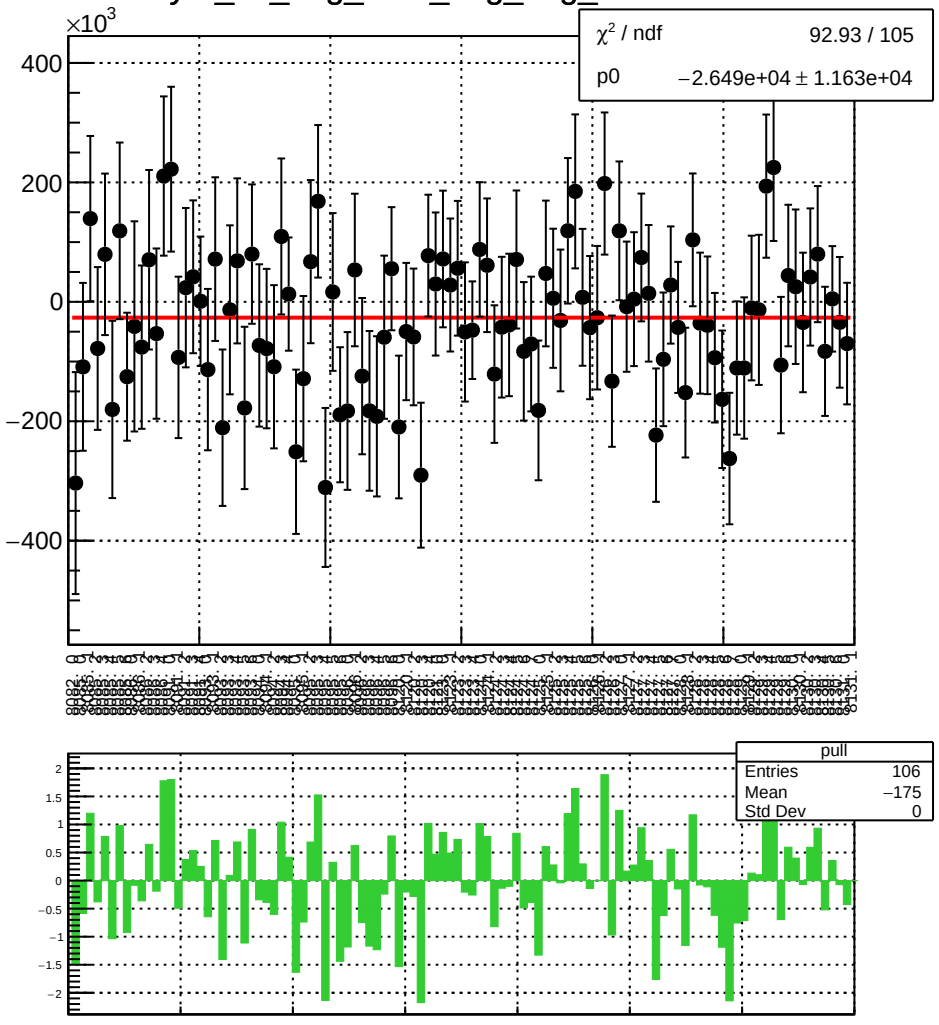

pull1D
Entries 105
Mean 0.00653
Std Dev 0.9365
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

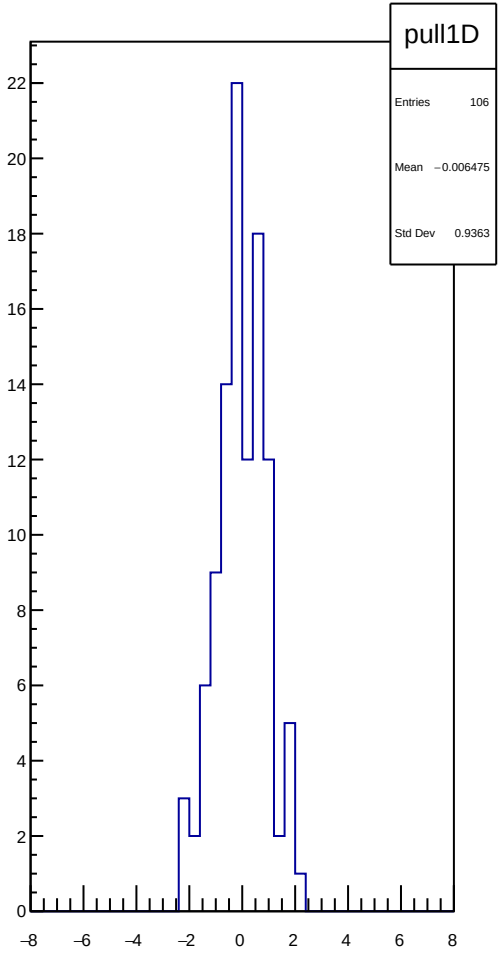

eigen_dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 4077 / 104
p0 2070 ± 1.46
2500
2400
2300
2200
2100
2000

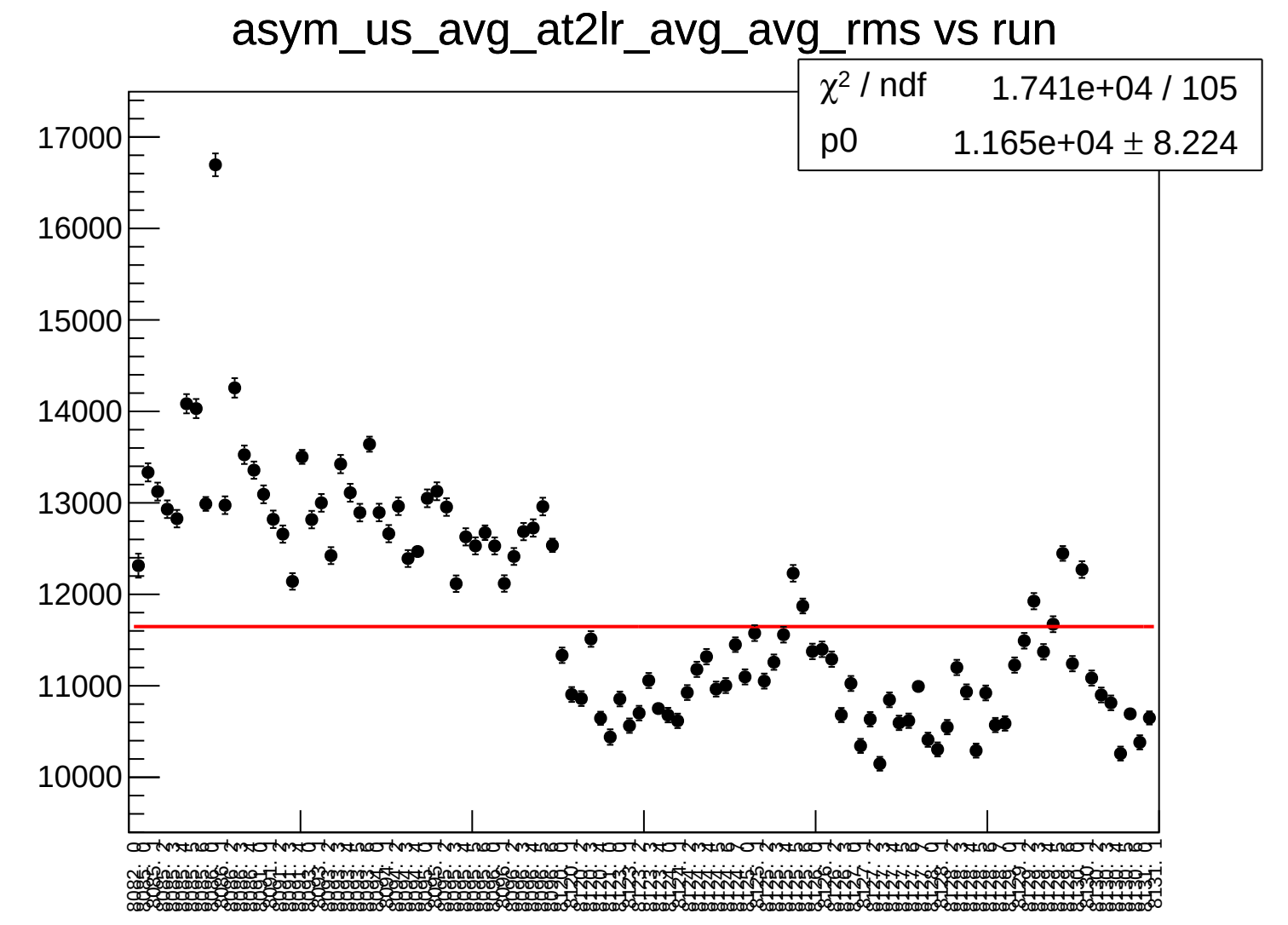

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 90.34 / 105
p0 1.883e+04 ± 1.141e+04
400
200
0
−200
−400
pull
Entries 106
Mean −132
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

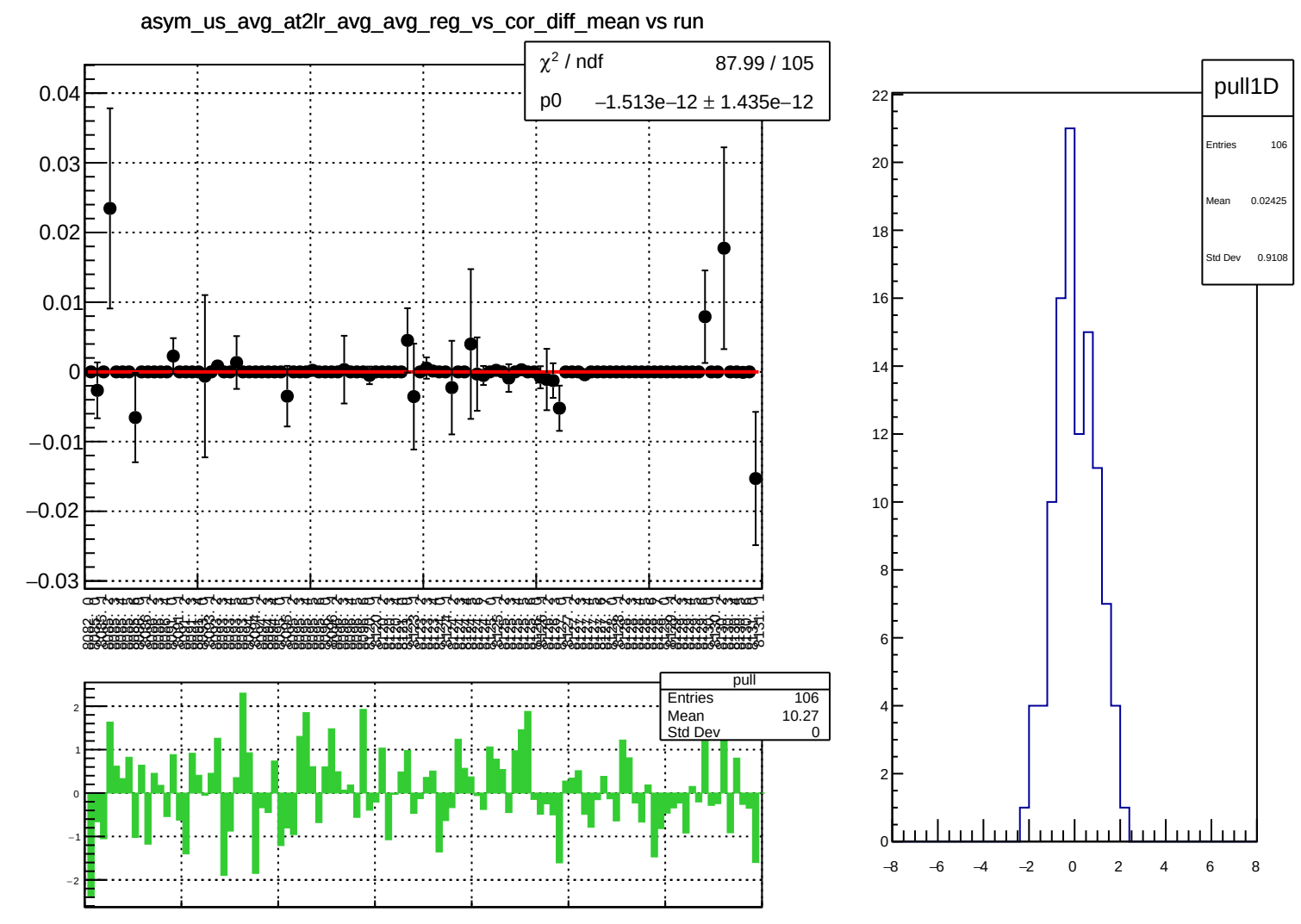

pull1D
Entries 106
Mean 0.01163
Std Dev 0.9231
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

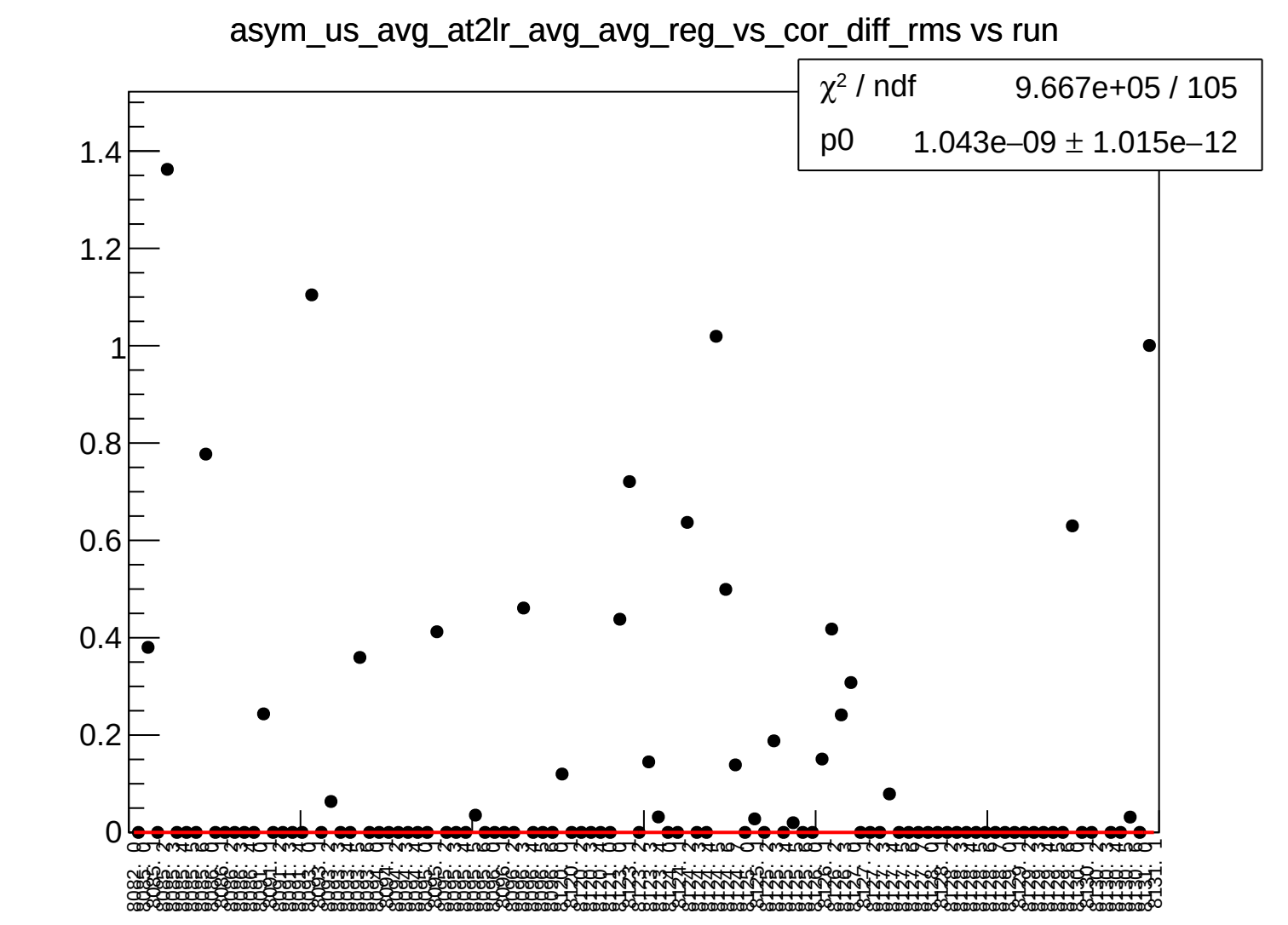

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.336e+04 / 105
p0 1.144e+04 ± 8.069
16000
15000
14000
13000
12000
11000
10000

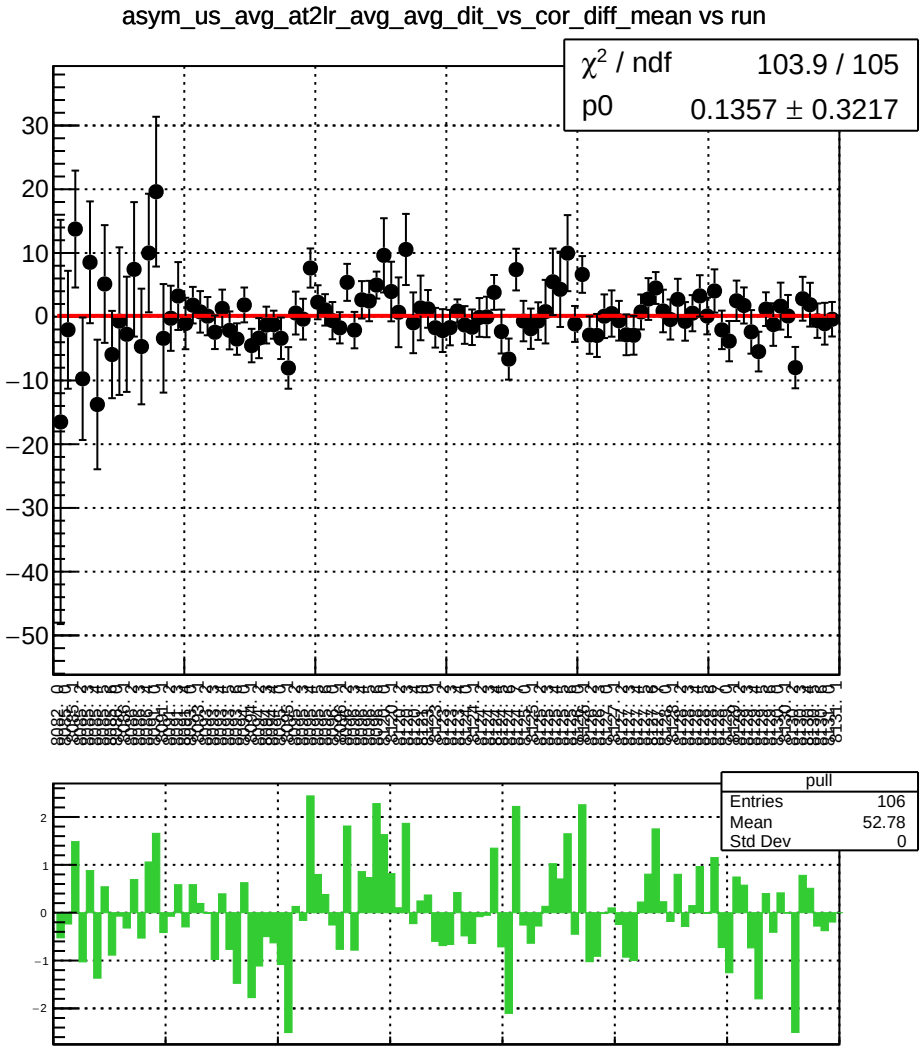

asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
400
200
0
−200
−400
χ² / ndf 92.93 / 105
p0 −2.649e+04 ± 1.163e+04
pull
Entries 106
Mean −175
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

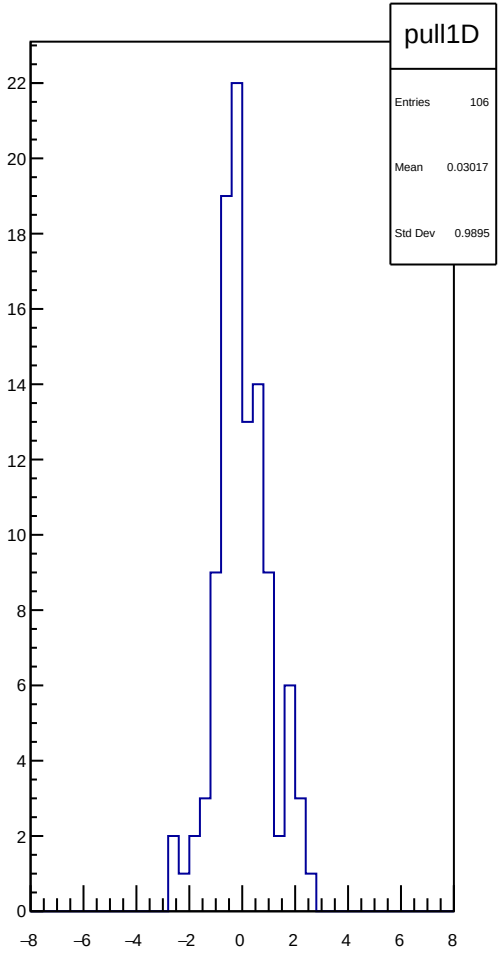

pull1D
Entries 106
Mean −0.006475
Std Dev 0.9363
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

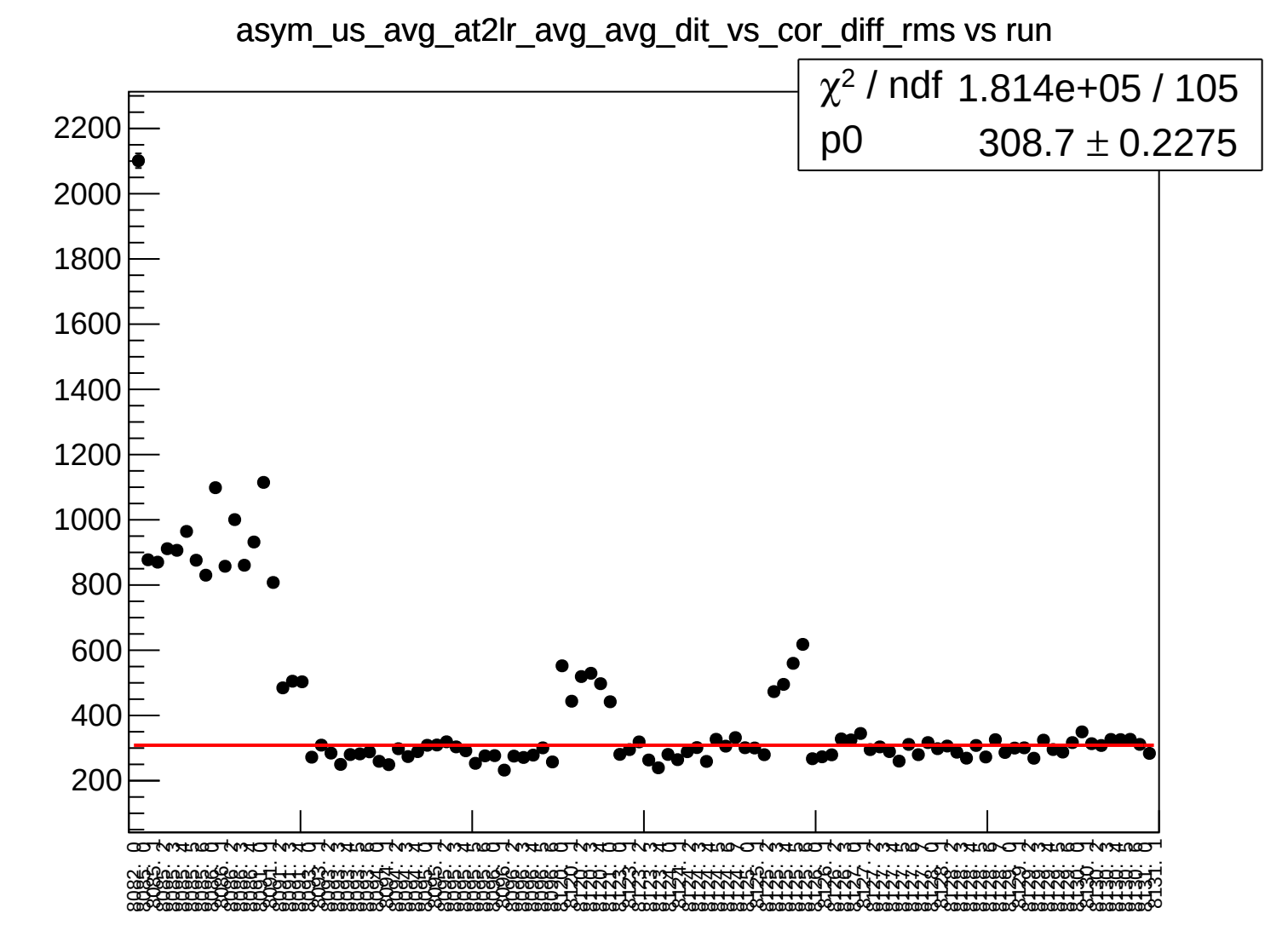

asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 1.741e+04 / 105
p0 1.165e+04 ± 8.224
17000
16000
15000
14000
13000
12000
11000
10000

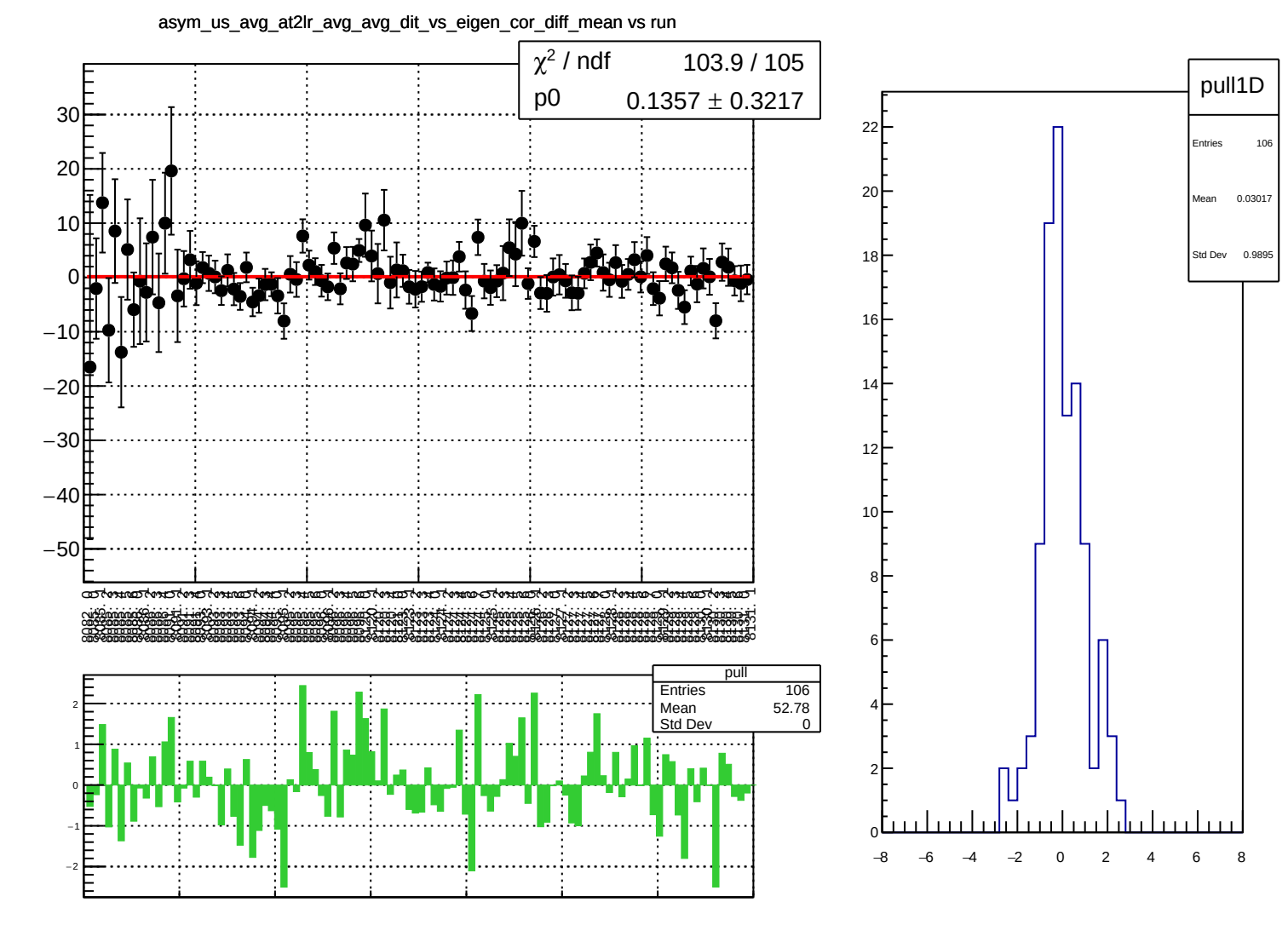

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 87.99 / 105
p0 −1.513e−12 ± 1.435e−12
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 106
Mean 10.27
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 106
Mean 0.02425
Std Dev 0.9108
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

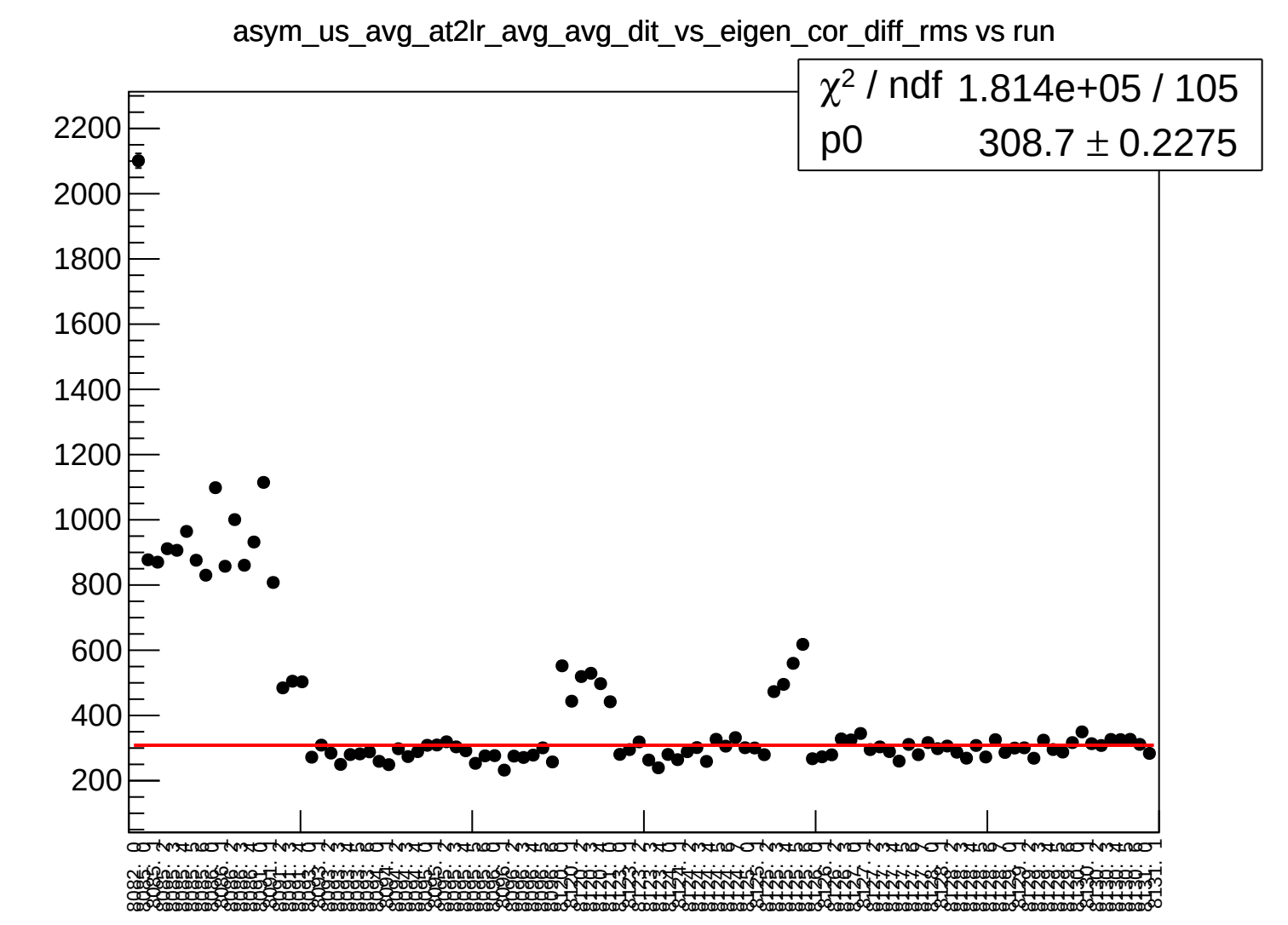

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.667e+05 / 105
p0 1.043e−09 ± 1.015e−12
1.4
1.2
1
0.8
0.6
0.4
0.2
0

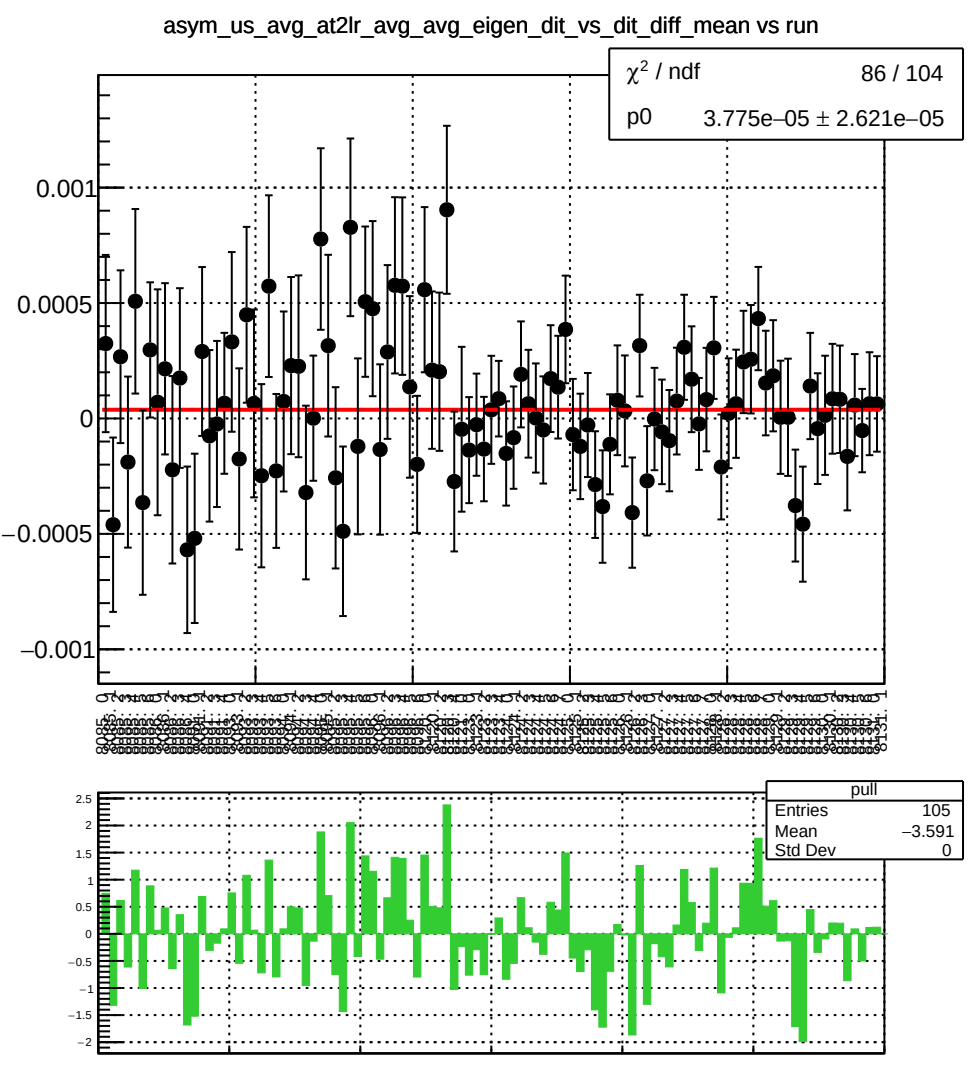

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 103.9 / 105
p0 0.1357 ± 0.3217
pull
Entries 106
Mean 52.78
Std Dev 0

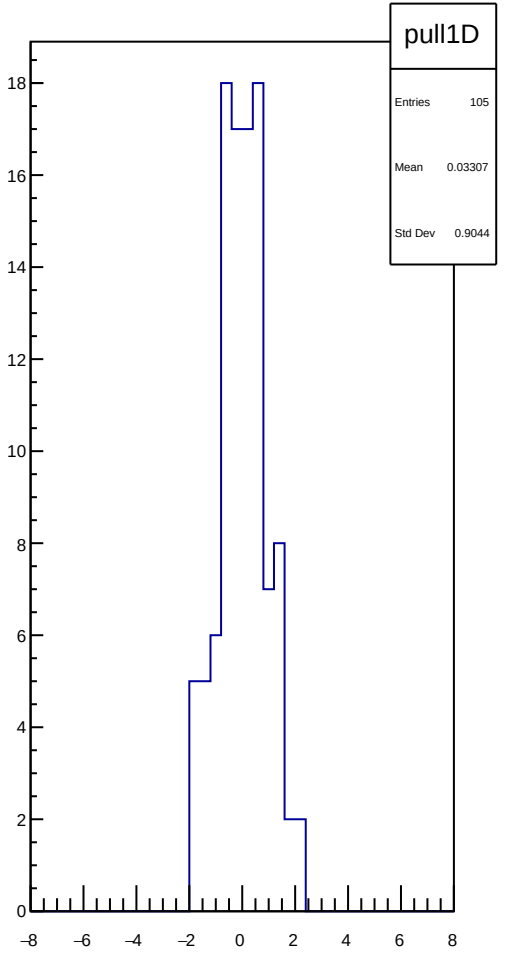

pull1D
Entries 106
Mean 0.03017
Std Dev 0.9895

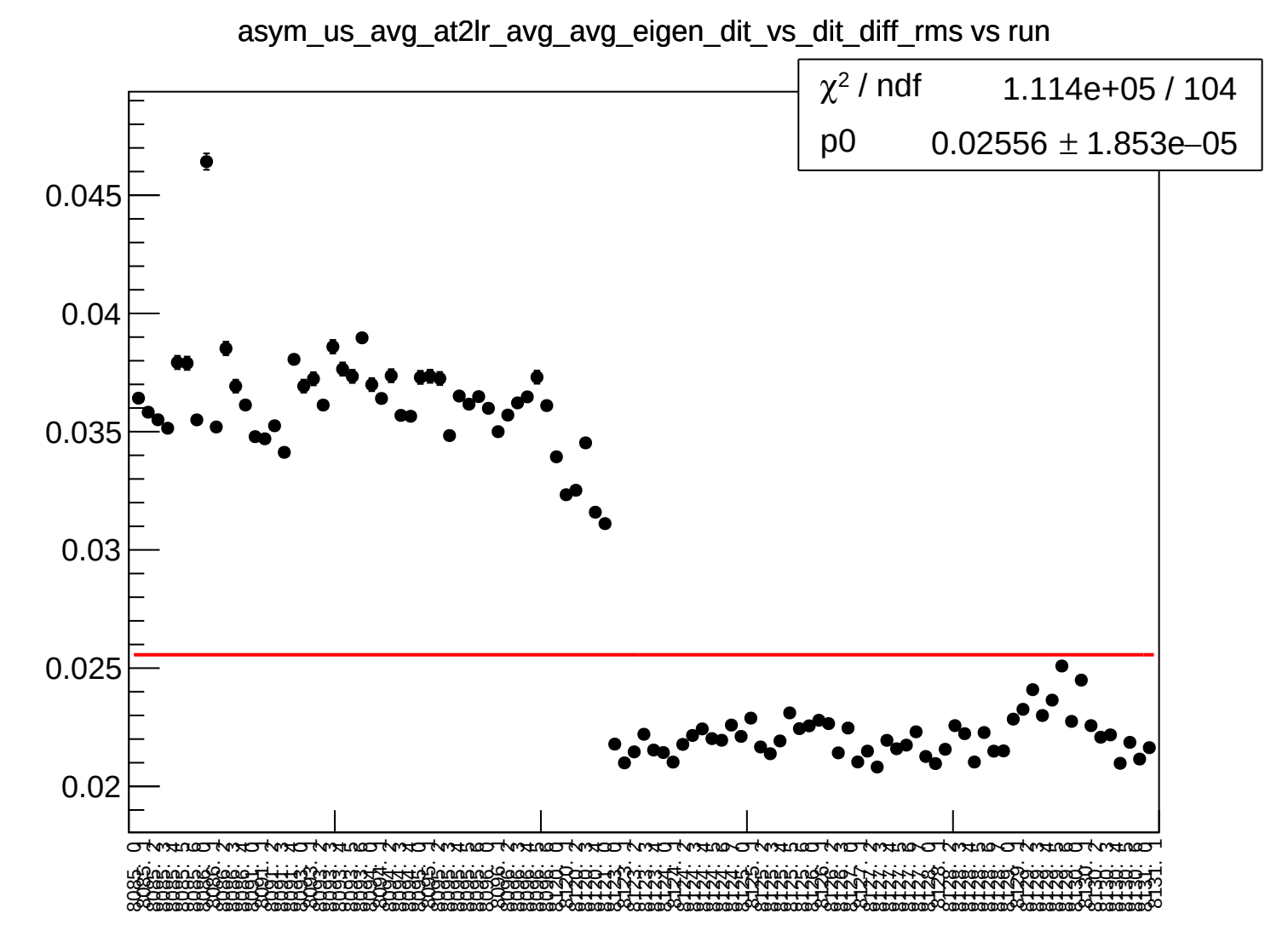

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.814e+05 / 105
p0 308.7 ± 0.2275
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

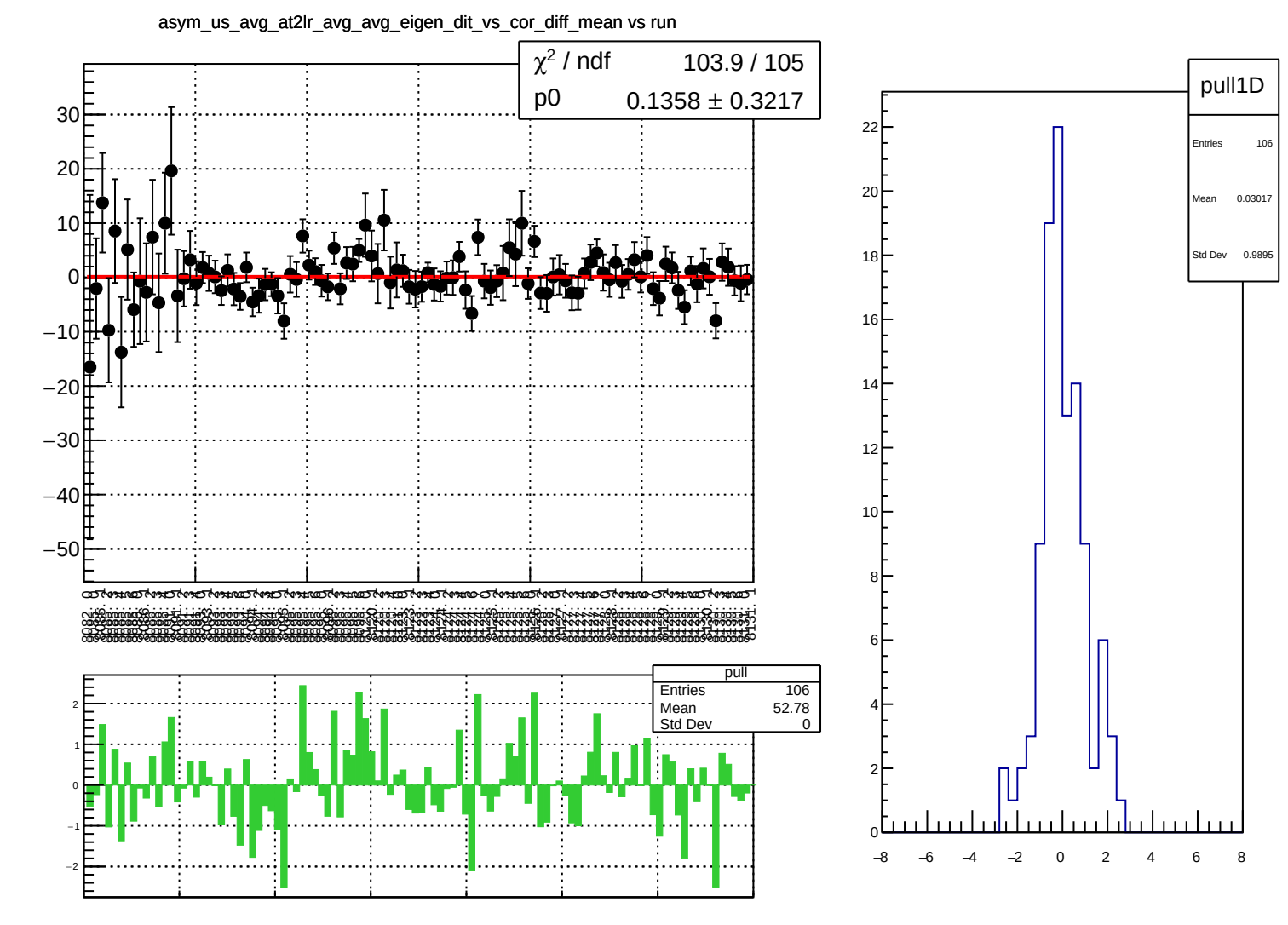

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.9 / 105
p0 0.1357 ± 0.3217
pull
Entries 106
Mean 52.78
Std Dev 0
pull1D
Entries 106
Mean 0.03017
Std Dev 0.9895

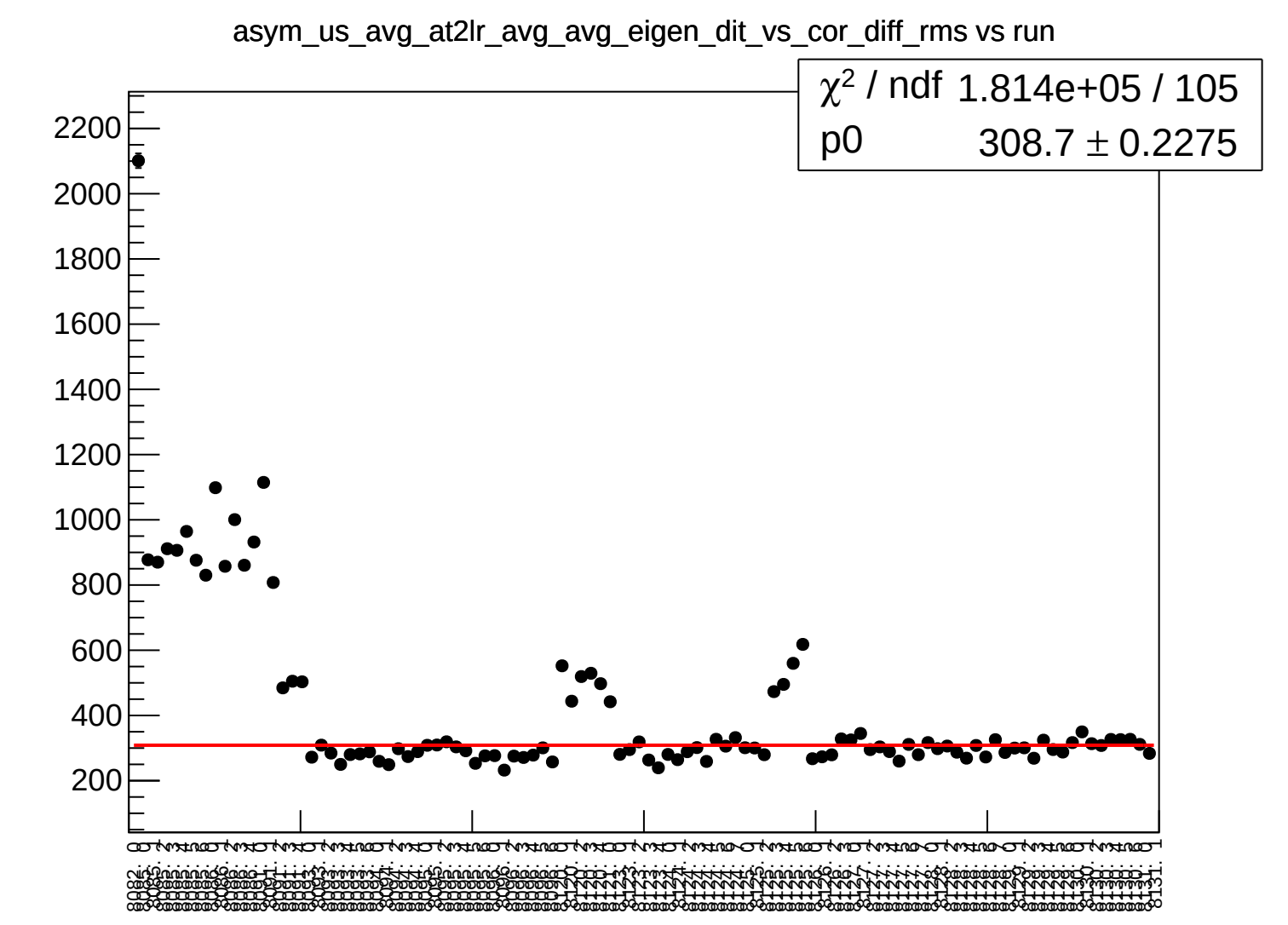

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.814e+05 / 105
p0 308.7 ± 0.2275
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

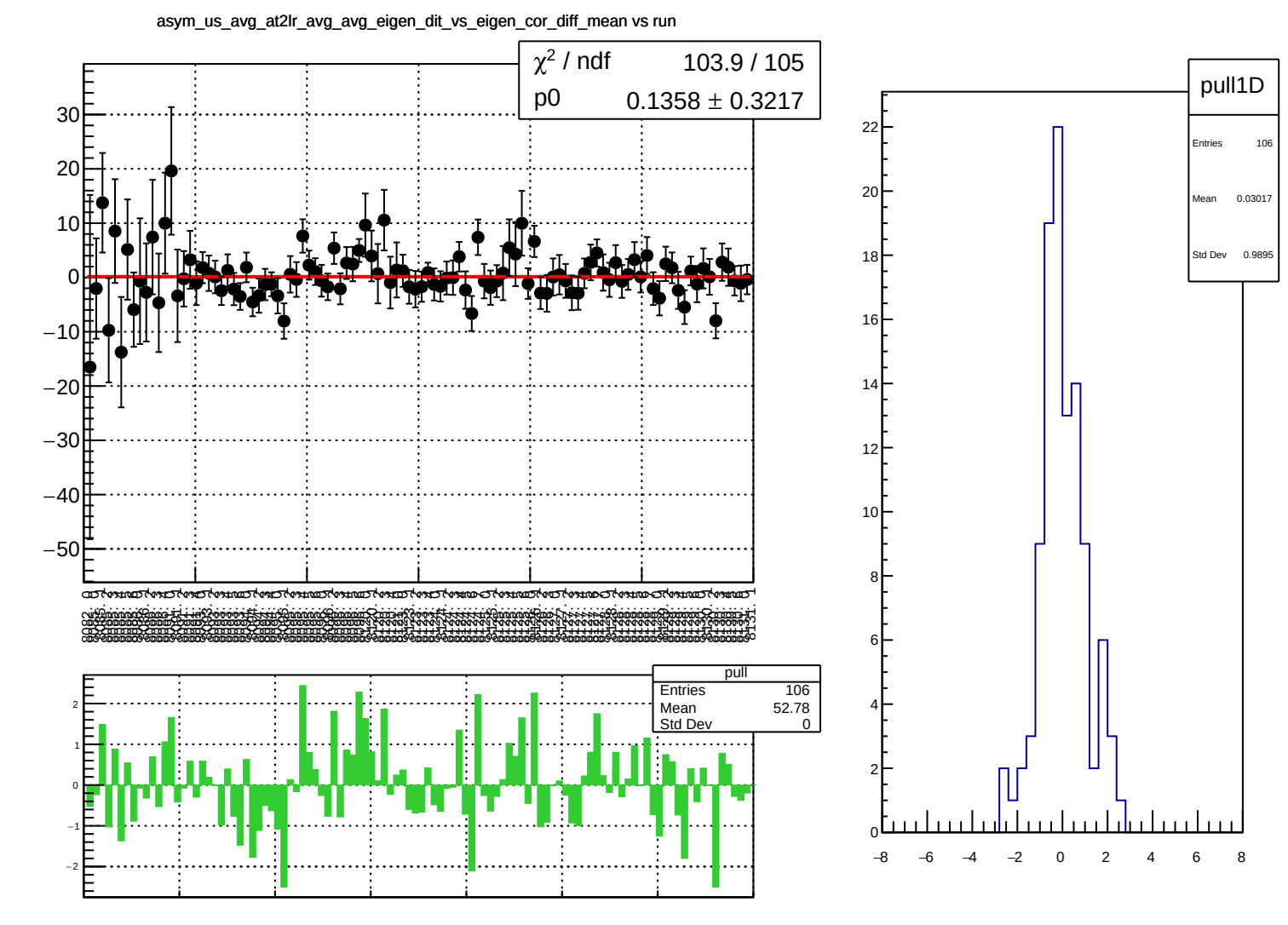

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 86 / 104
p0 3.775e−05 ± 2.621e−05
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 105
Mean −3.591
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

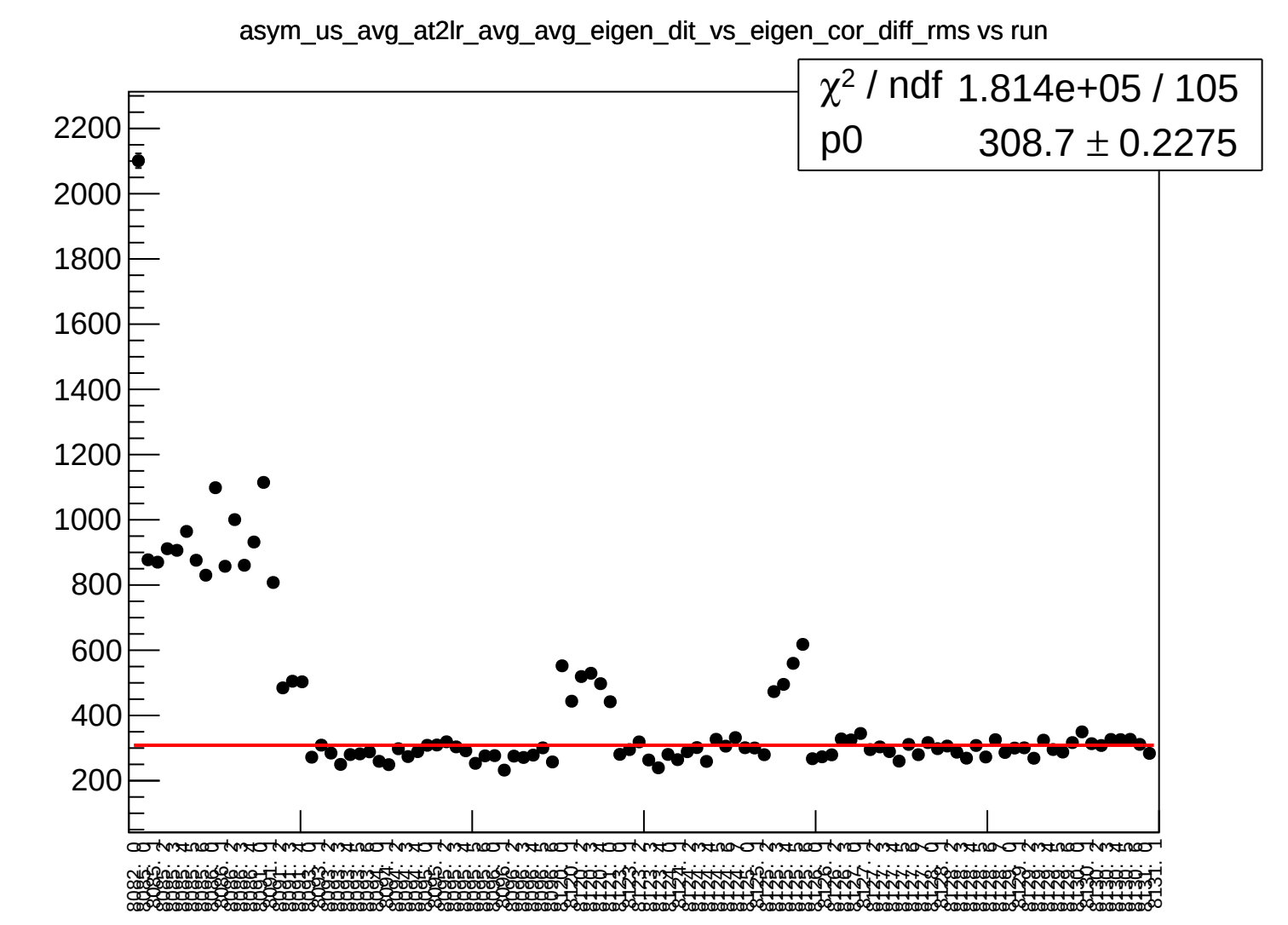

pull1D
Entries 105
Mean 0.03307
Std Dev 0.9044
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

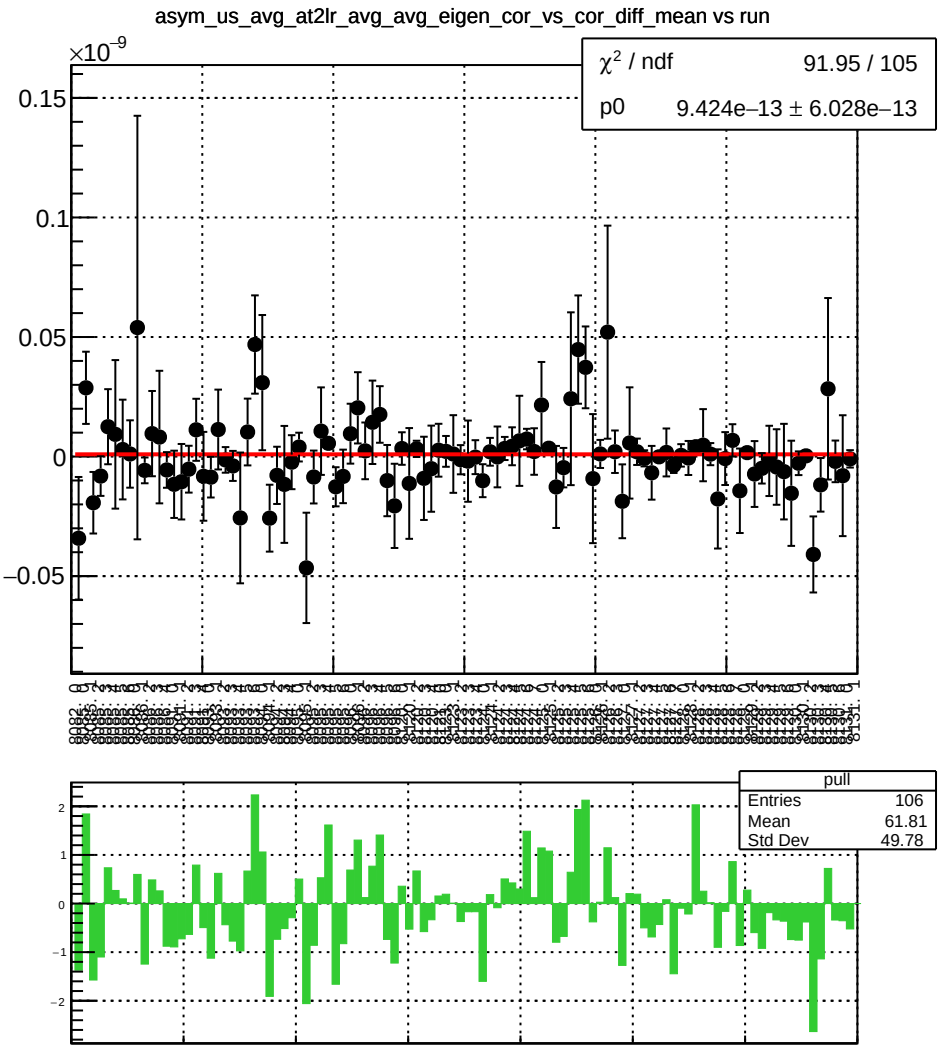

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.114e+05 / 104
p0 0.02556 ± 1.853e−05
0.045
0.04
0.035
0.03
0.025
0.02

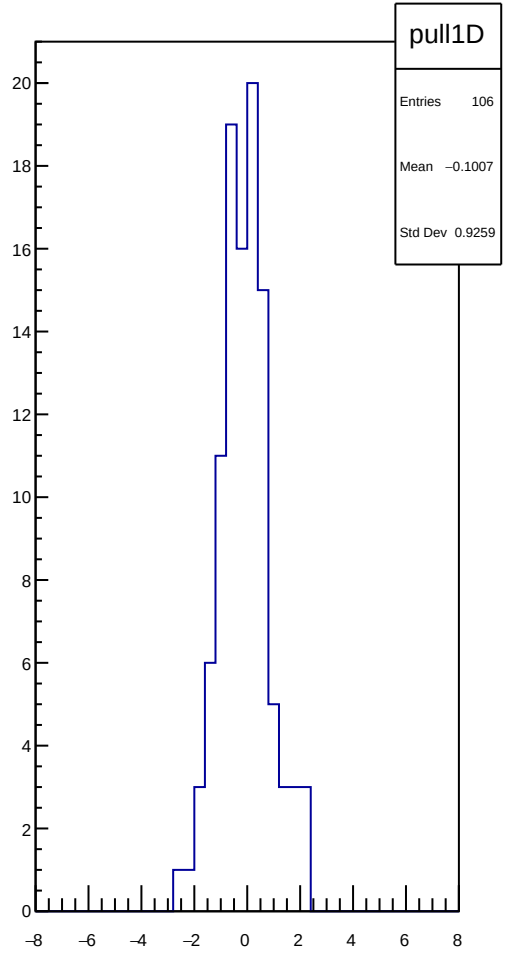

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 103.9 / 105
p0 0.1358 ± 0.3217
pull
Entries 106
Mean 52.78
Std Dev 0
pull1D
Entries 106
Mean 0.03017
Std Dev 0.9895

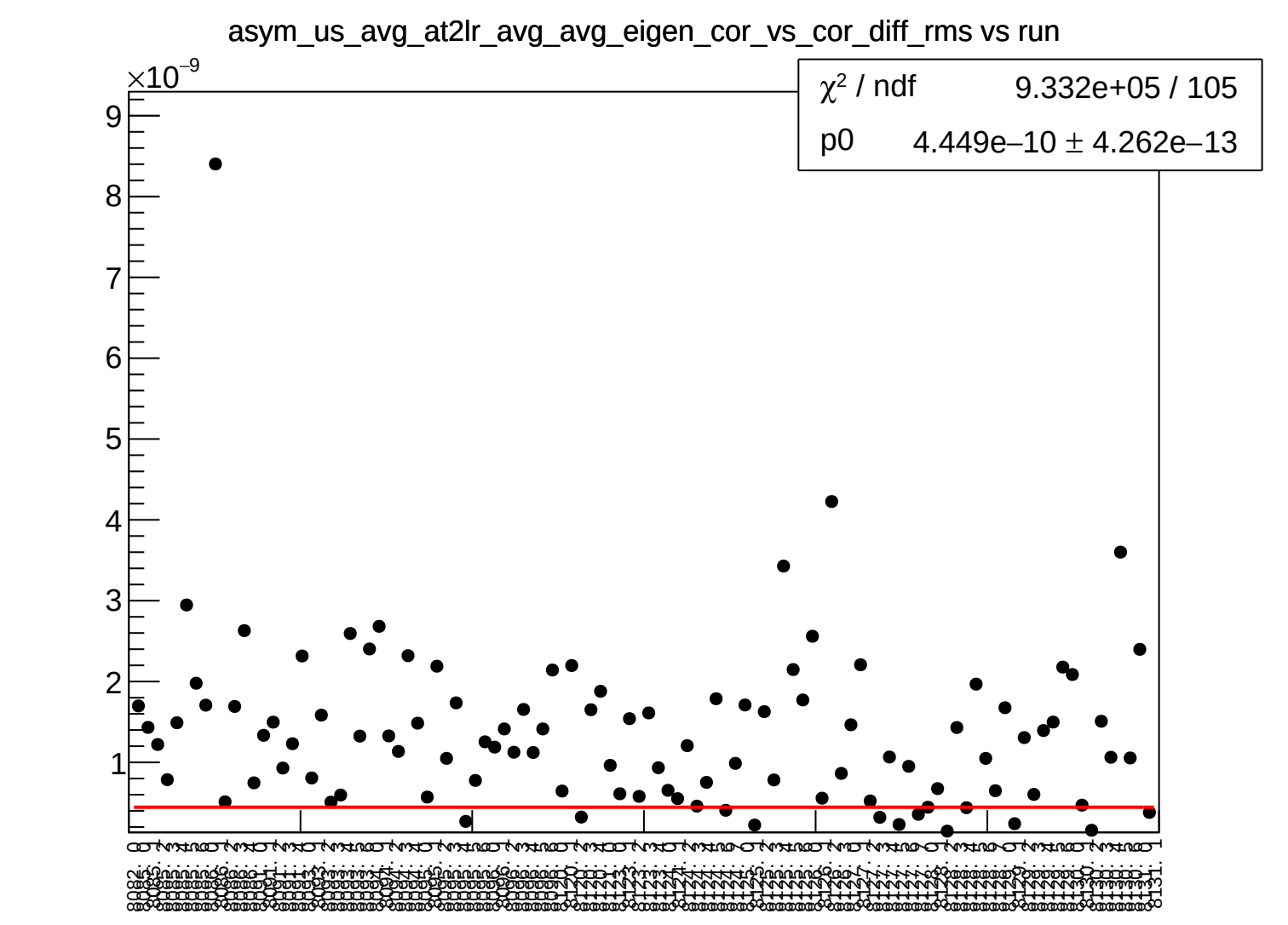

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.814e+05 / 105
p0 308.7 ± 0.2275
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

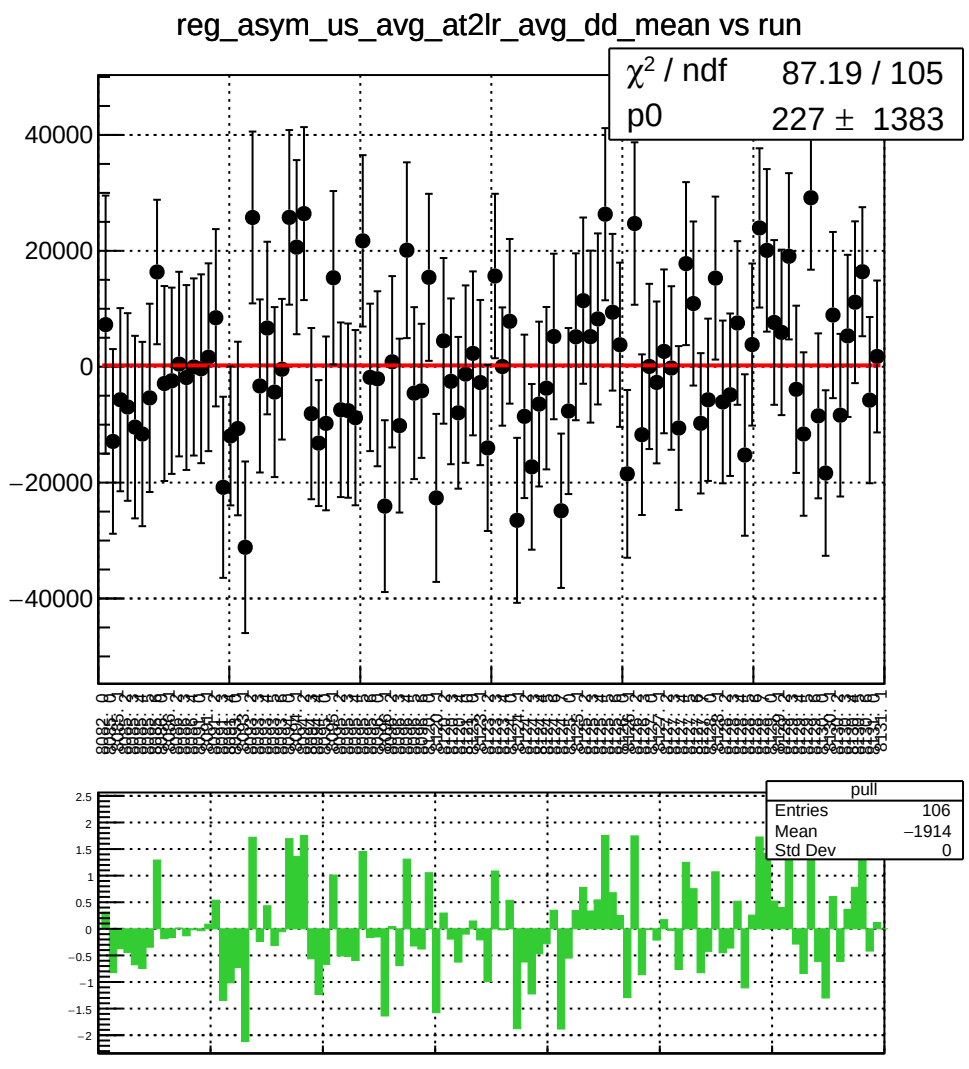

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.9 / 105
p0 0.1358 ± 0.3217
pull
Entries 106
Mean 52.78
Std Dev 0
pull1D
Entries 106
Mean 0.03017
Std Dev 0.9895

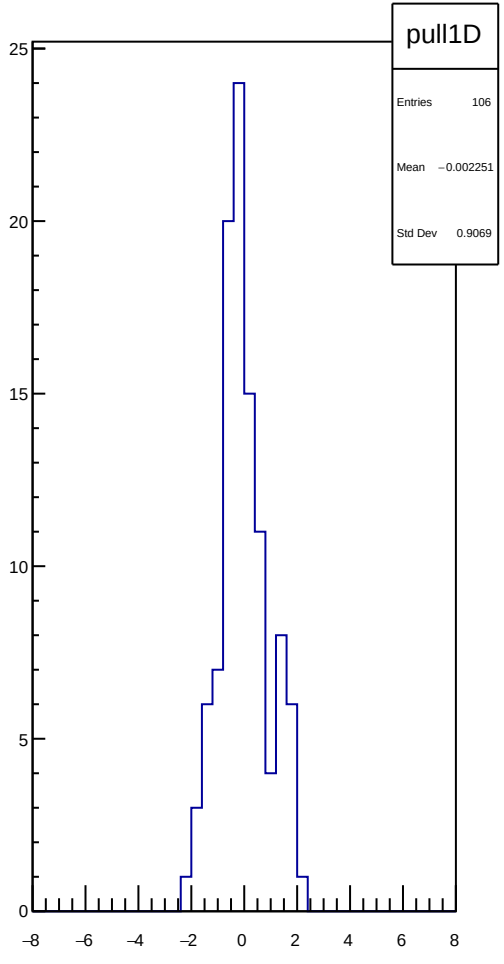

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.814e+05 / 105
p0 308.7 ± 0.2275
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

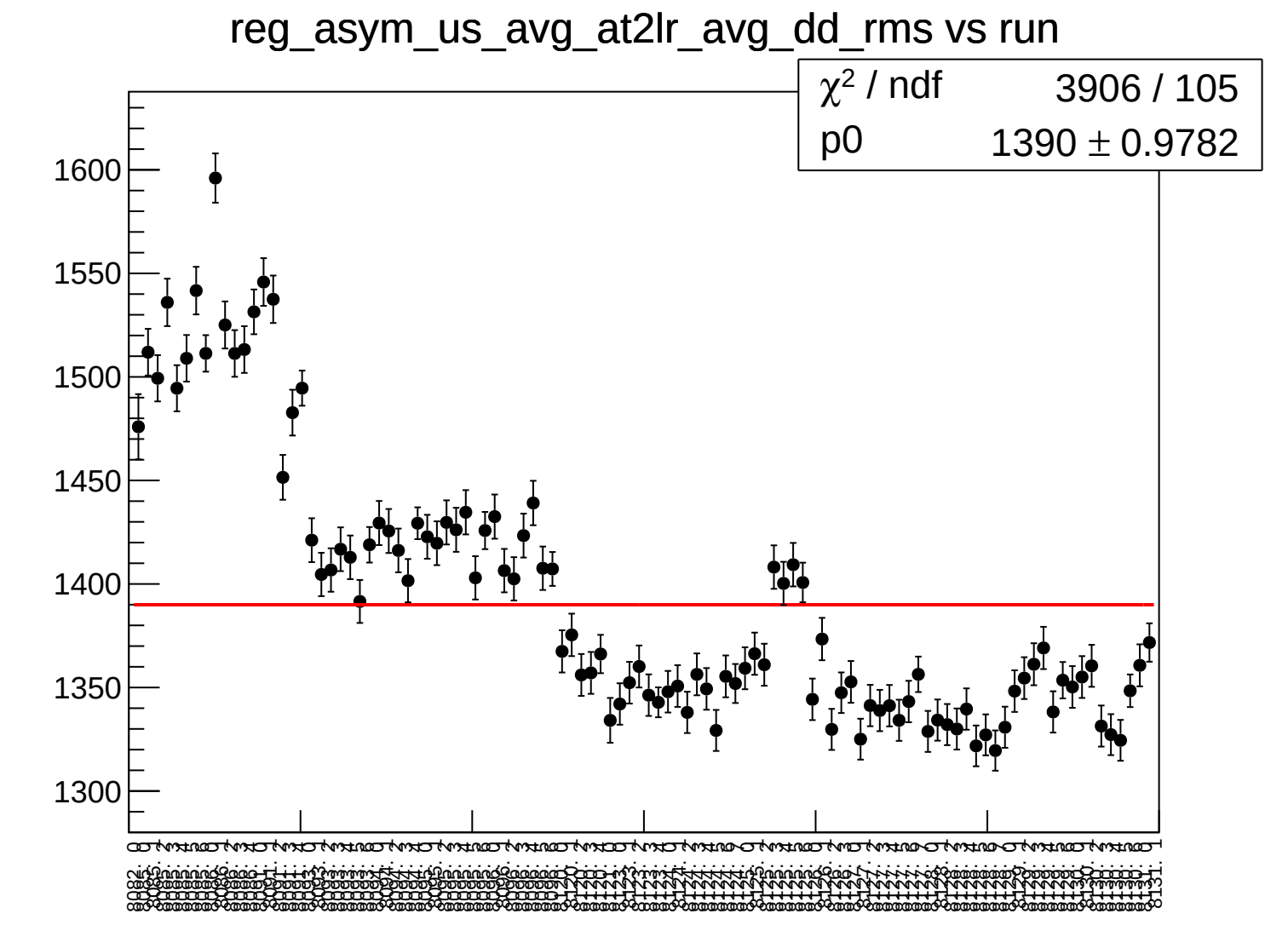

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 91.95 / 105
p0 9.424e−13 ± 6.028e−13
0.15
0.1
0.05
0
−0.05
pull
Entries 106
Mean 61.81
Std Dev 49.78
2
1
0
−1
−2

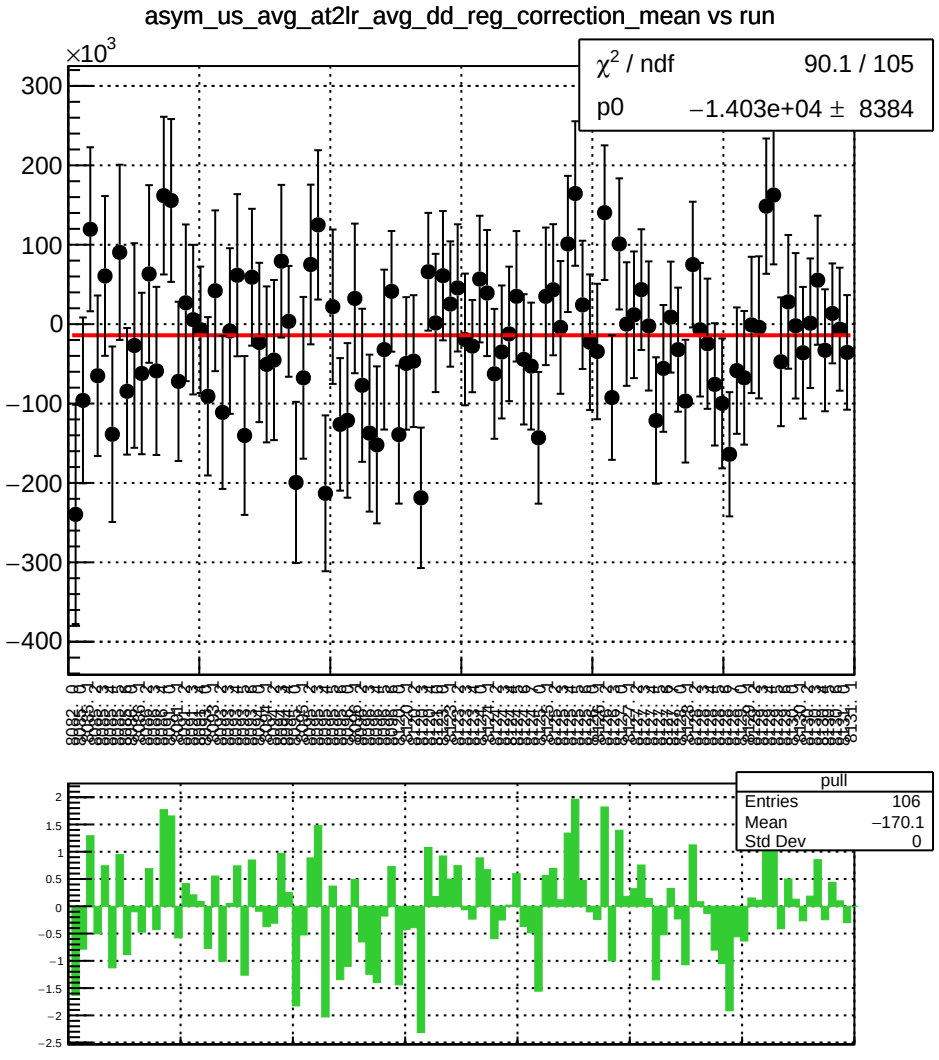

pull1D
Entries 106
Mean −0.1007
Std Dev 0.9259
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

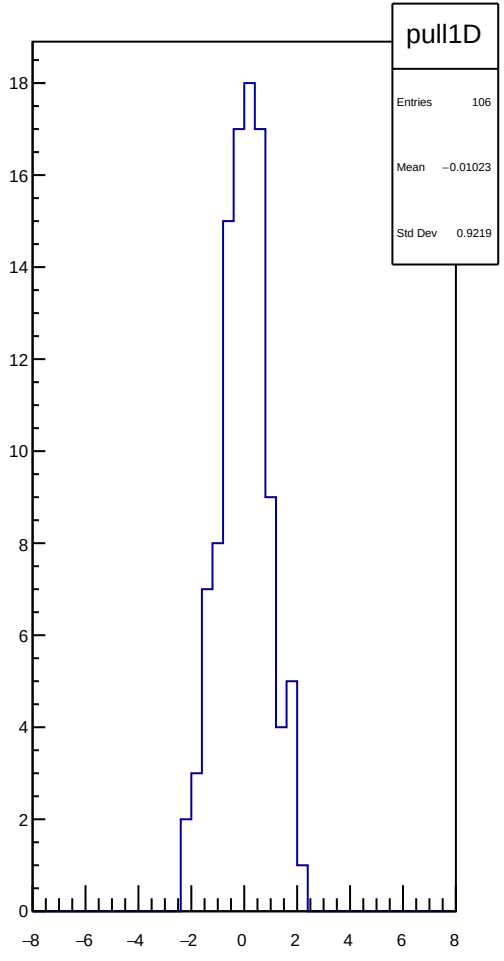

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.332e+05 / 105
p0 4.449e−10 ± 4.262e−13
9
8
7
6
5
4
3
2
1

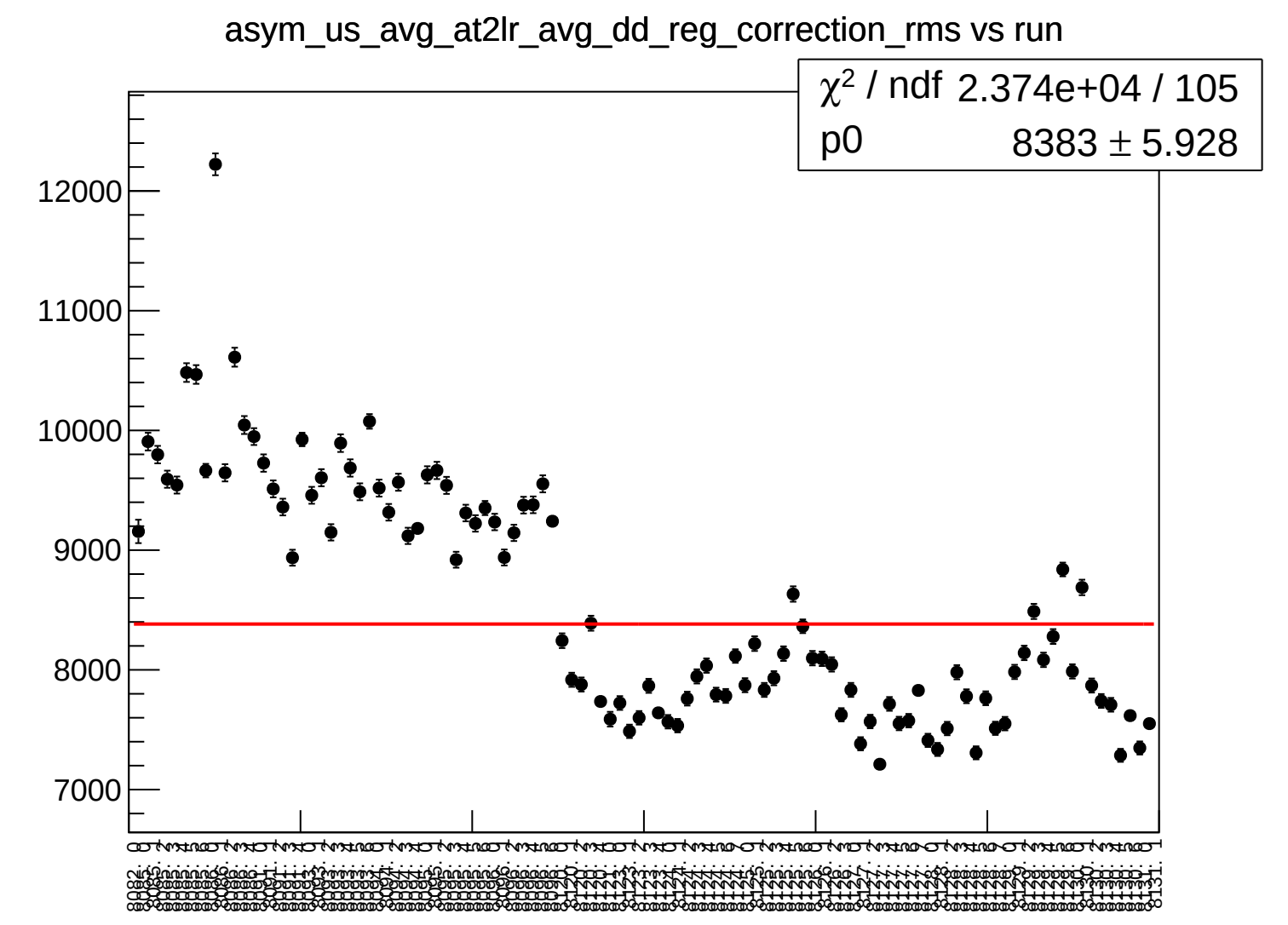

reg_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 87.19 / 105
p0 227 ± 1383
40000
20000
0
−20000
−40000
pull
Entries 106
Mean −1914
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

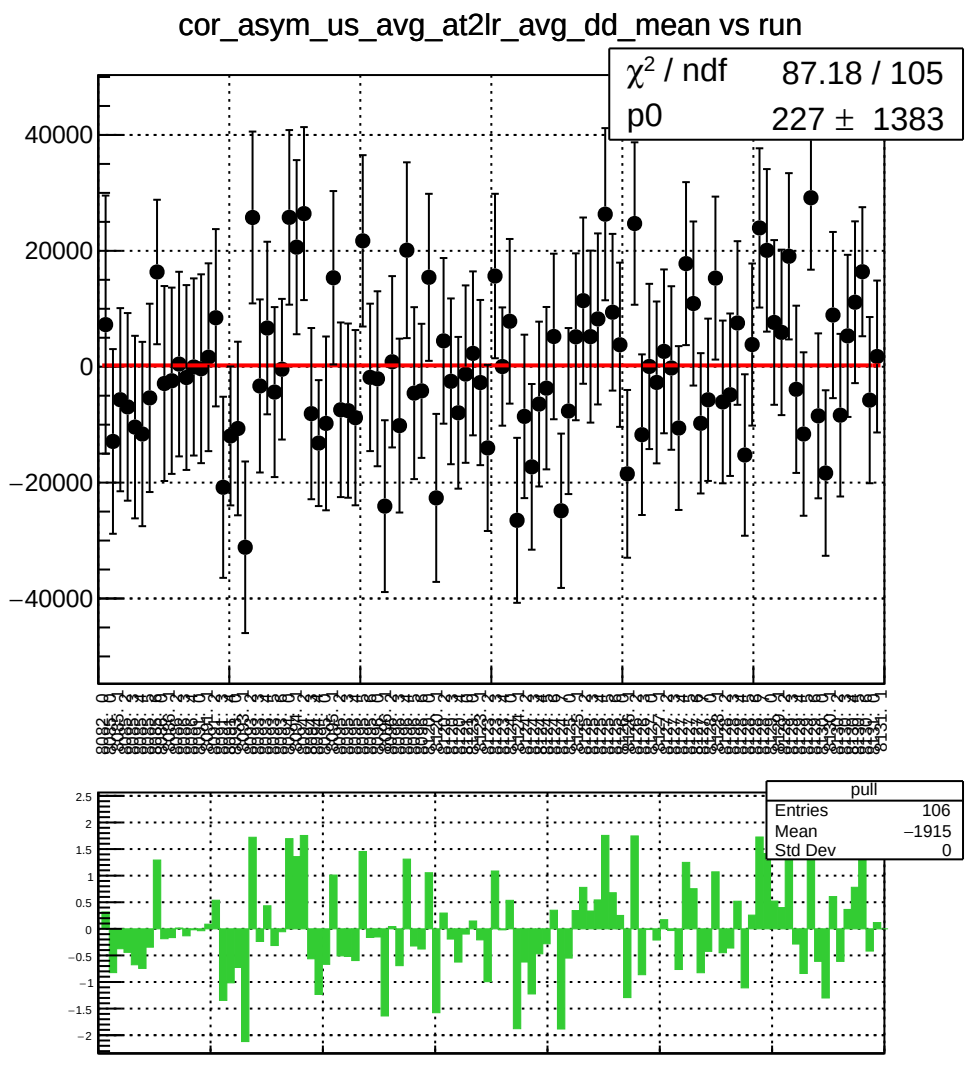

pull1D
Entries 106
Mean −0.002251
Std Dev 0.9069
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

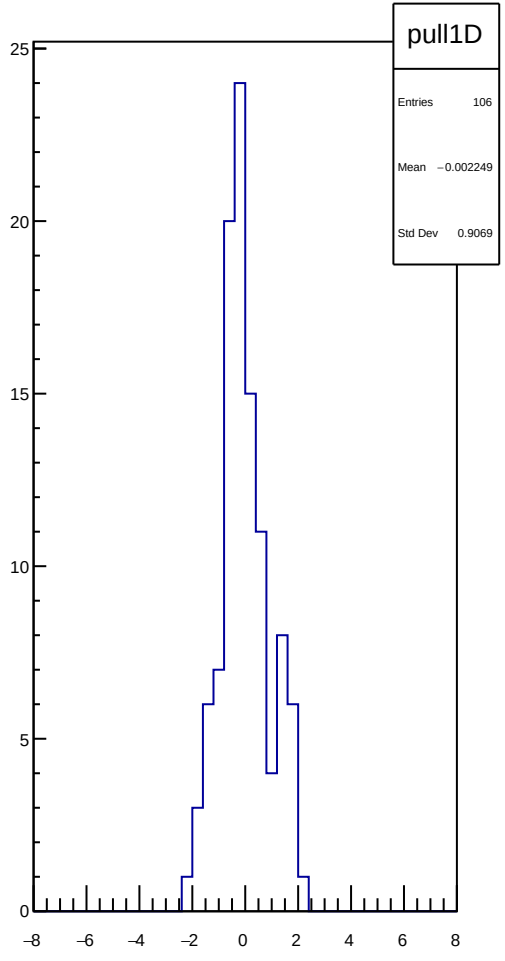

reg_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 3906 / 105
p0 1390 ± 0.9782
1600
1550
1500
1450
1400
1350
1300

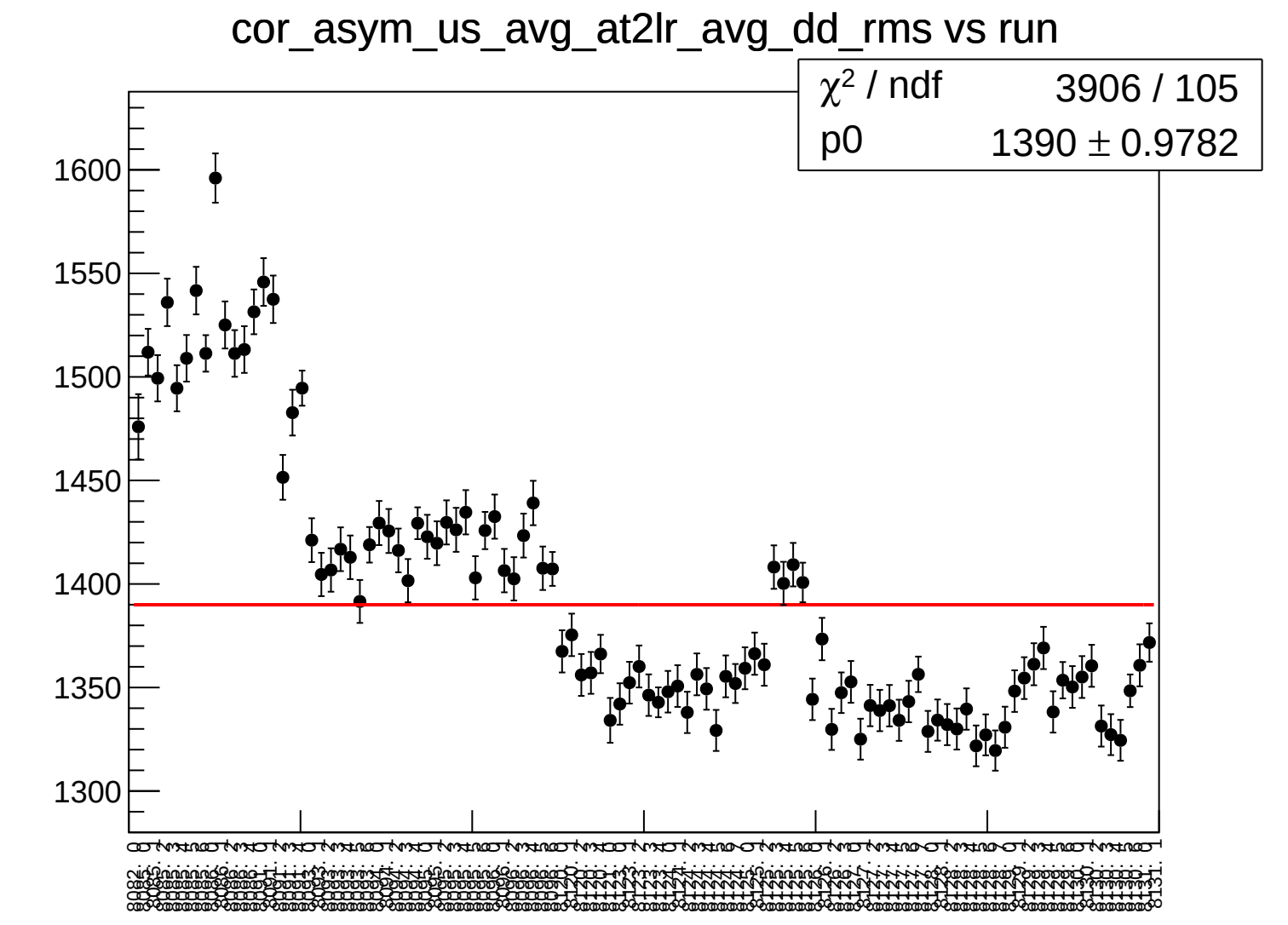

asym_us_avg_at2lr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 90.1 / 105
p0 −1.403e+04 ± 8384
pull
Entries 106
Mean −170.1
Std Dev 0

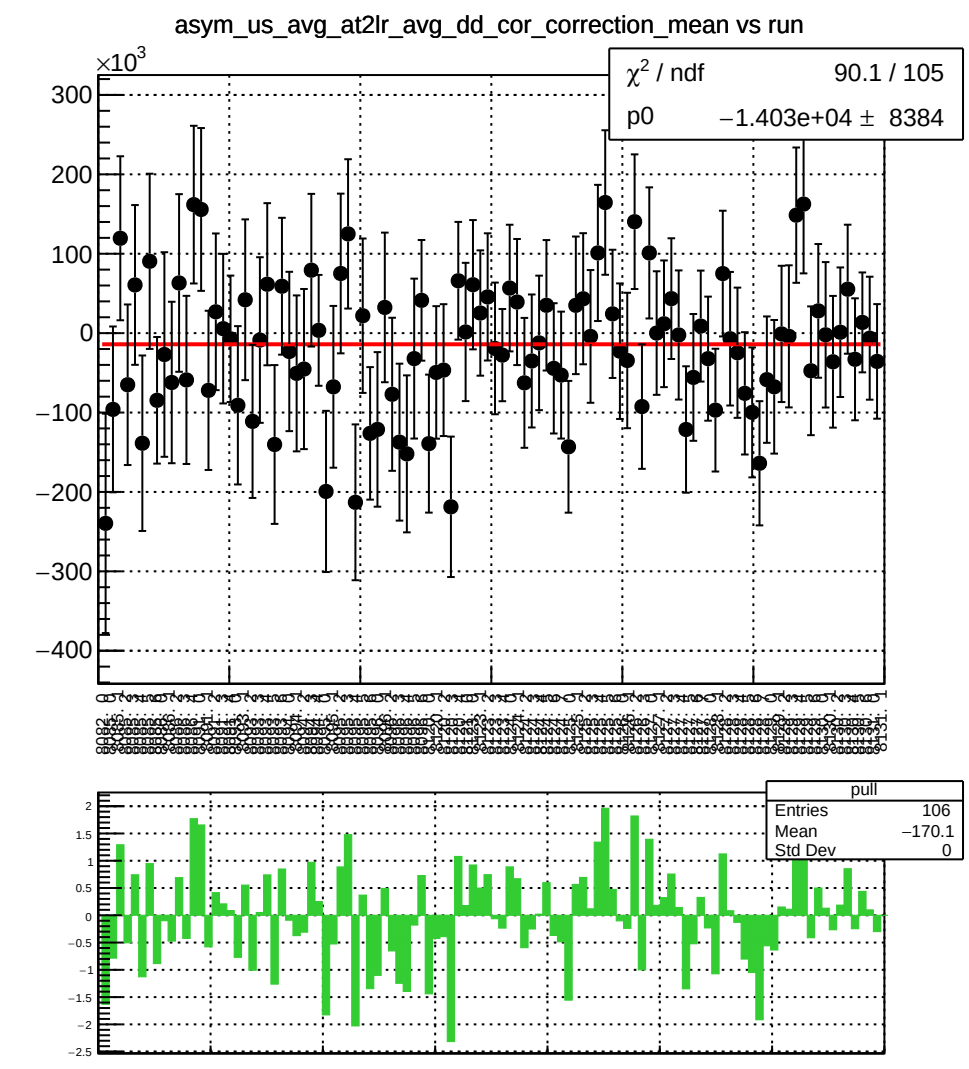

pull1D
Entries 106
Mean −0.01023
Std Dev 0.9219

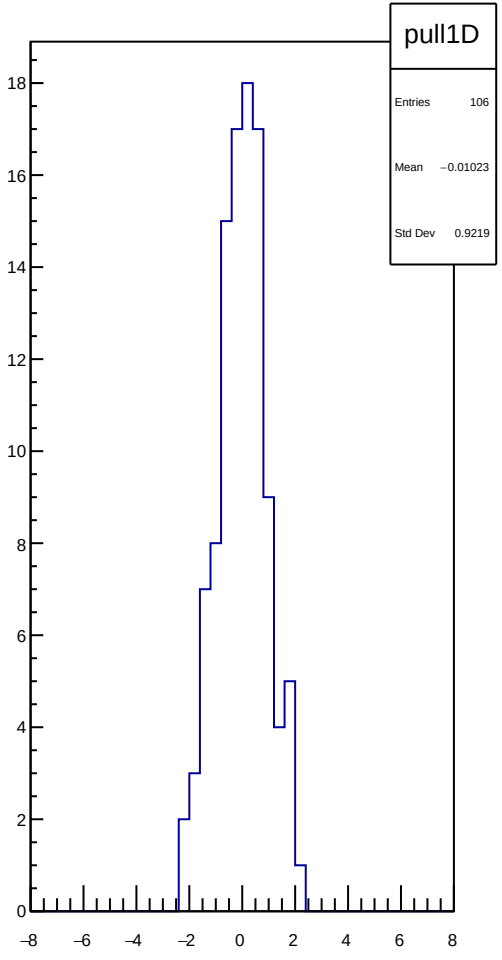

asym_us_avg_at2lr_avg_dd_reg_correction_rms vs run
χ² / ndf 2.374e+04 / 105
p0 8383 ± 5.928
12000
11000
10000
9000
8000
7000

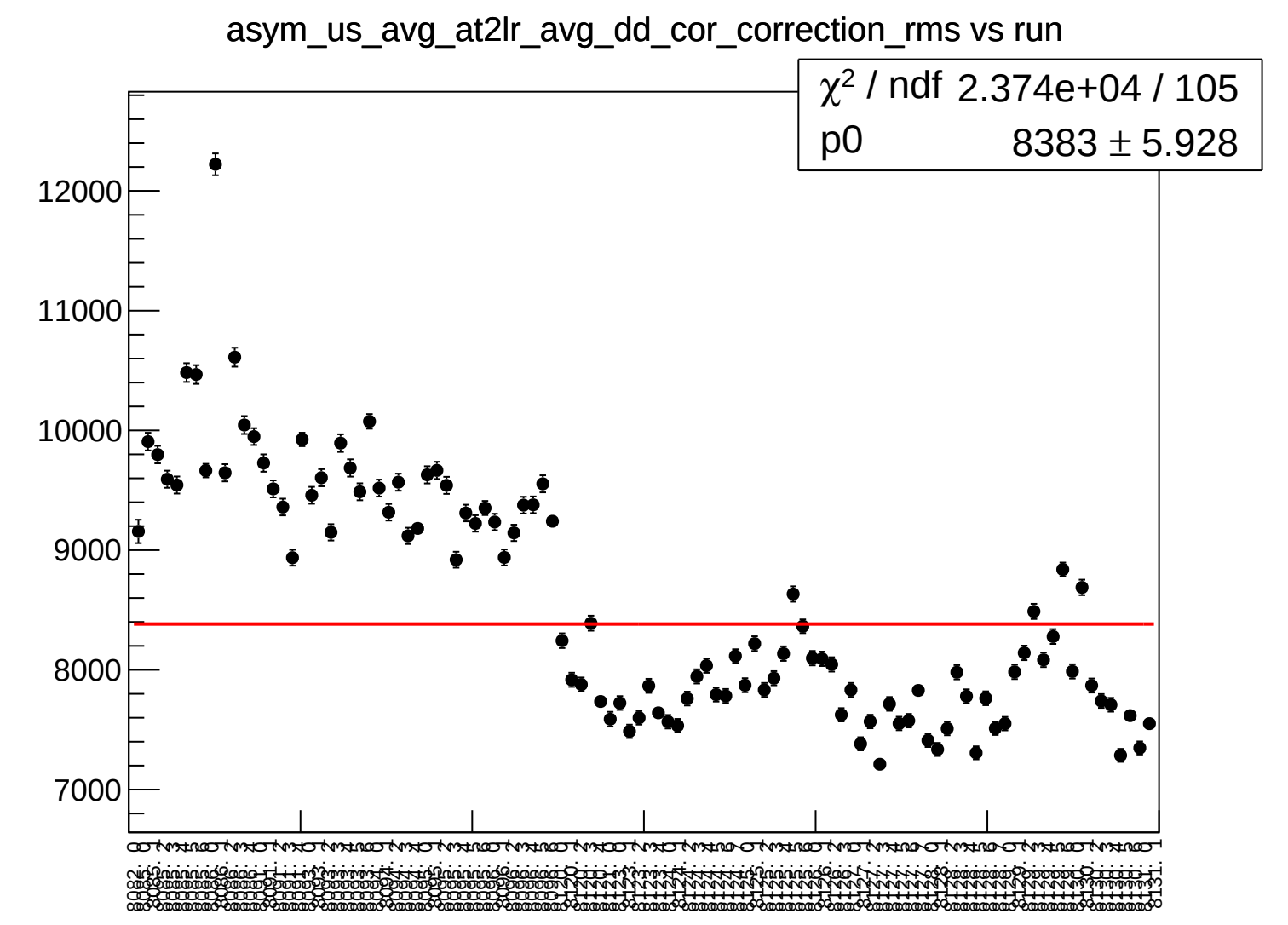

cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 87.18 / 105
p0 227 ± 1383
40000
20000
0
−20000
−40000
pull
Entries 106
Mean −1915
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

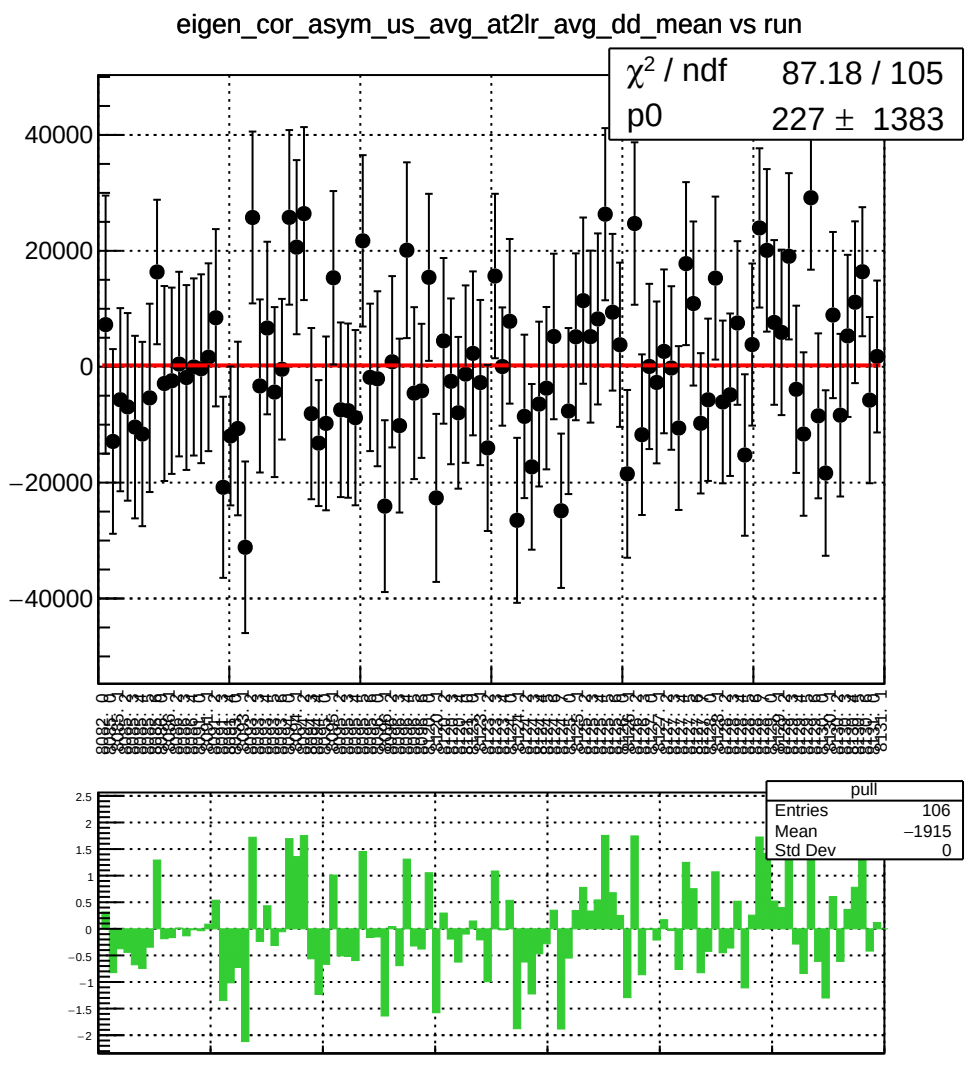

pull1D
Entries 106
Mean −0.002249
Std Dev 0.9069
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

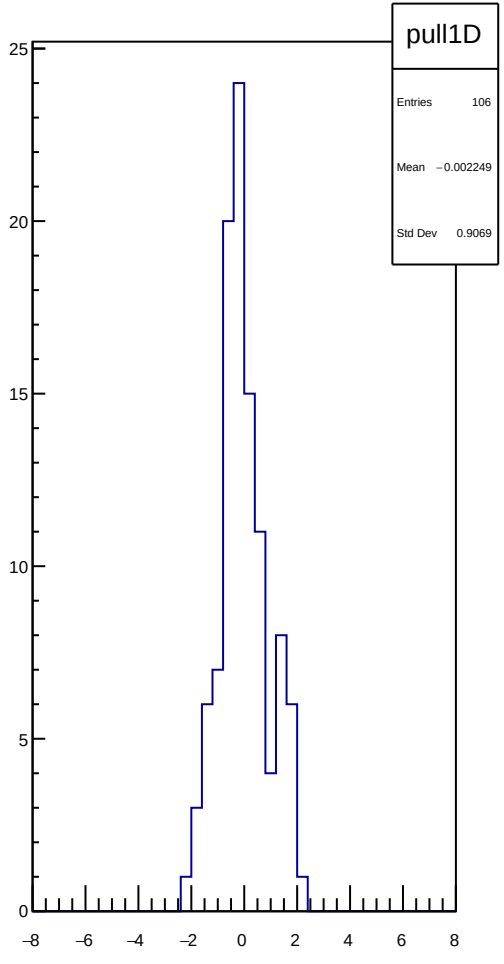

cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 3906 / 105
p0 1390 ± 0.9782
1600
1550
1500
1450
1400
1350
1300

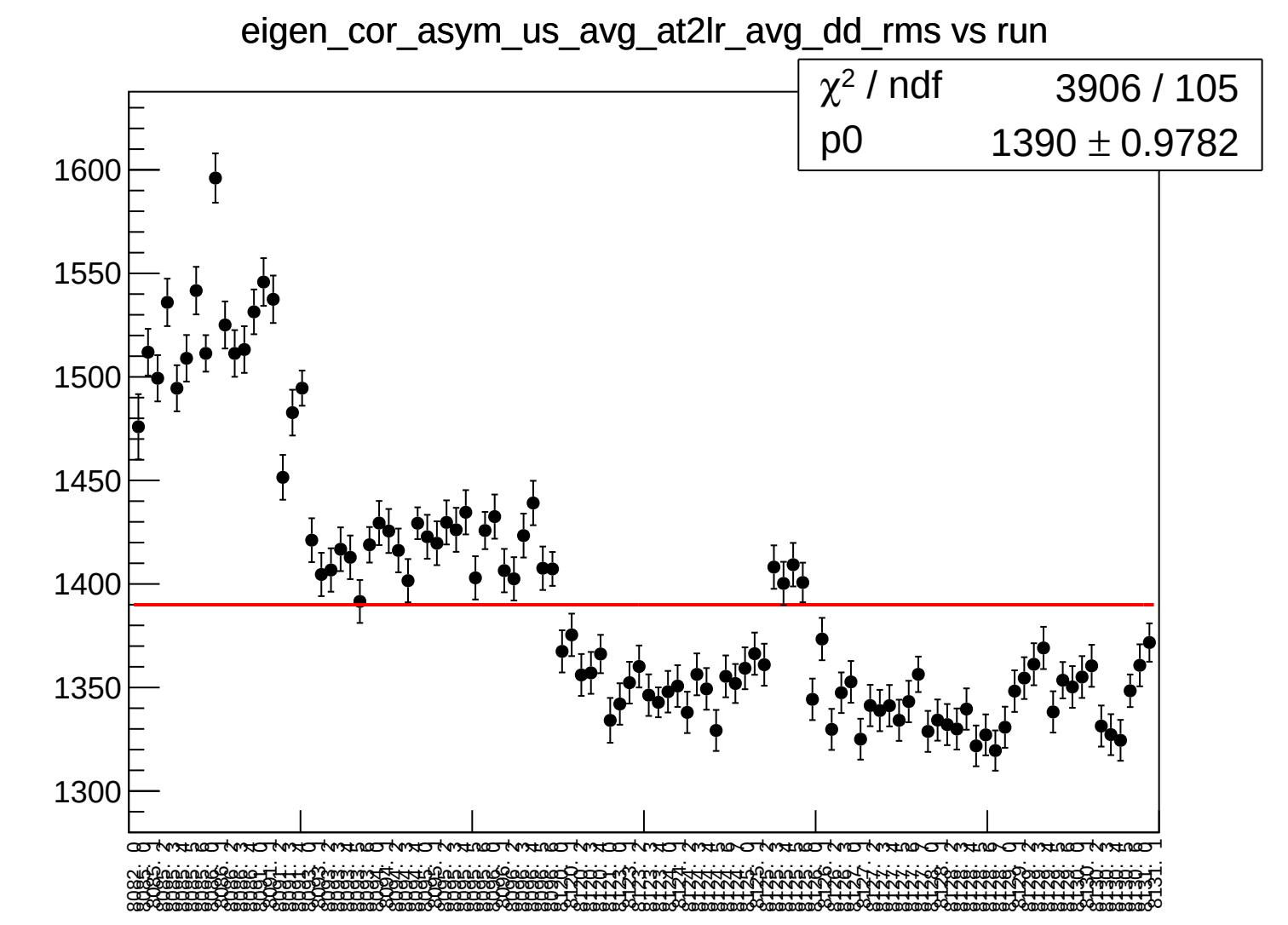

asym_us_avg_at2lr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 90.1 / 105
p0 −1.403e+04 ± 8384
pull
Entries 106
Mean −170.1
Std Dev 0

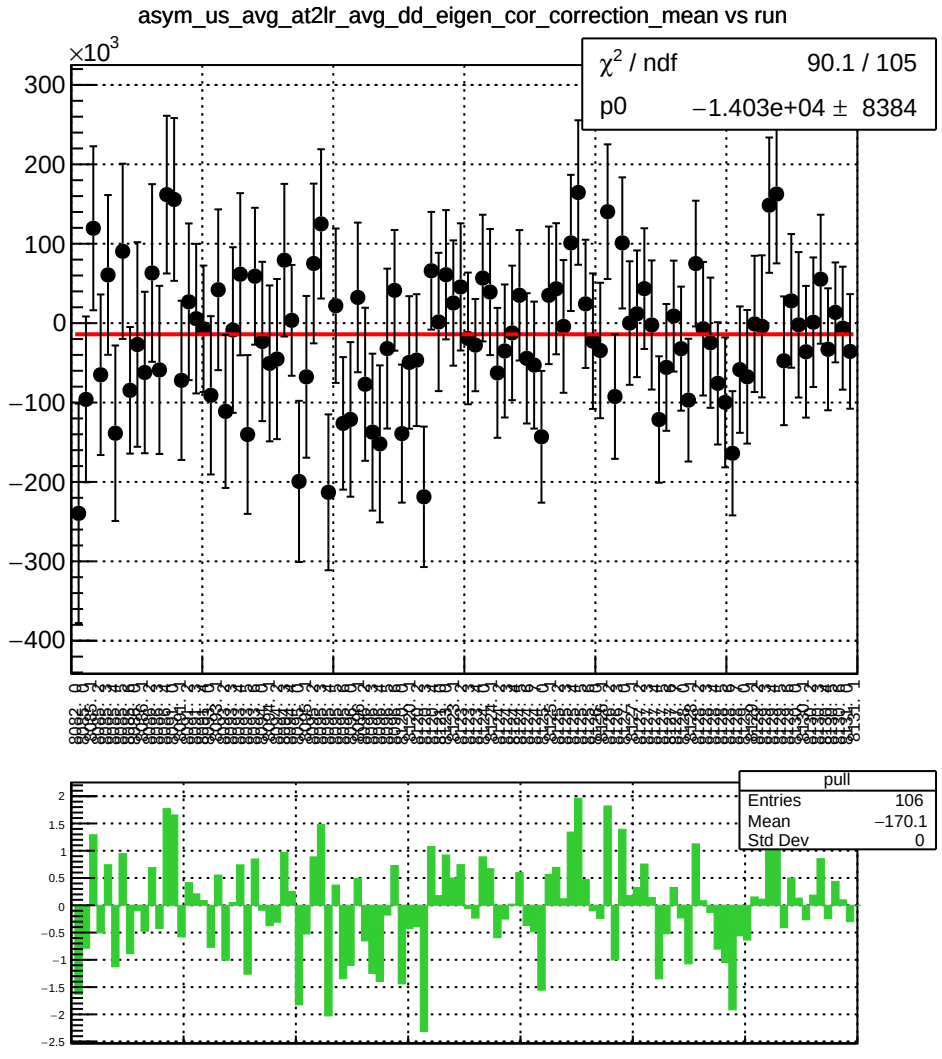

pull1D
Entries 106
Mean −0.01023
Std Dev 0.9219

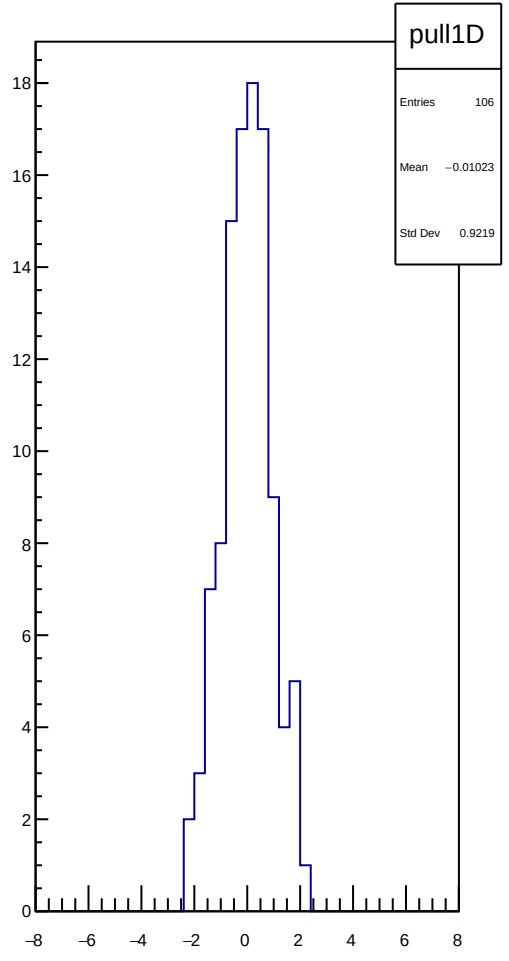

asym_us_avg_at2lr_avg_dd_cor_correction_rms vs run
χ² / ndf 2.374e+04 / 105
p0 8383 ± 5.928
12000
11000
10000
9000
8000
7000

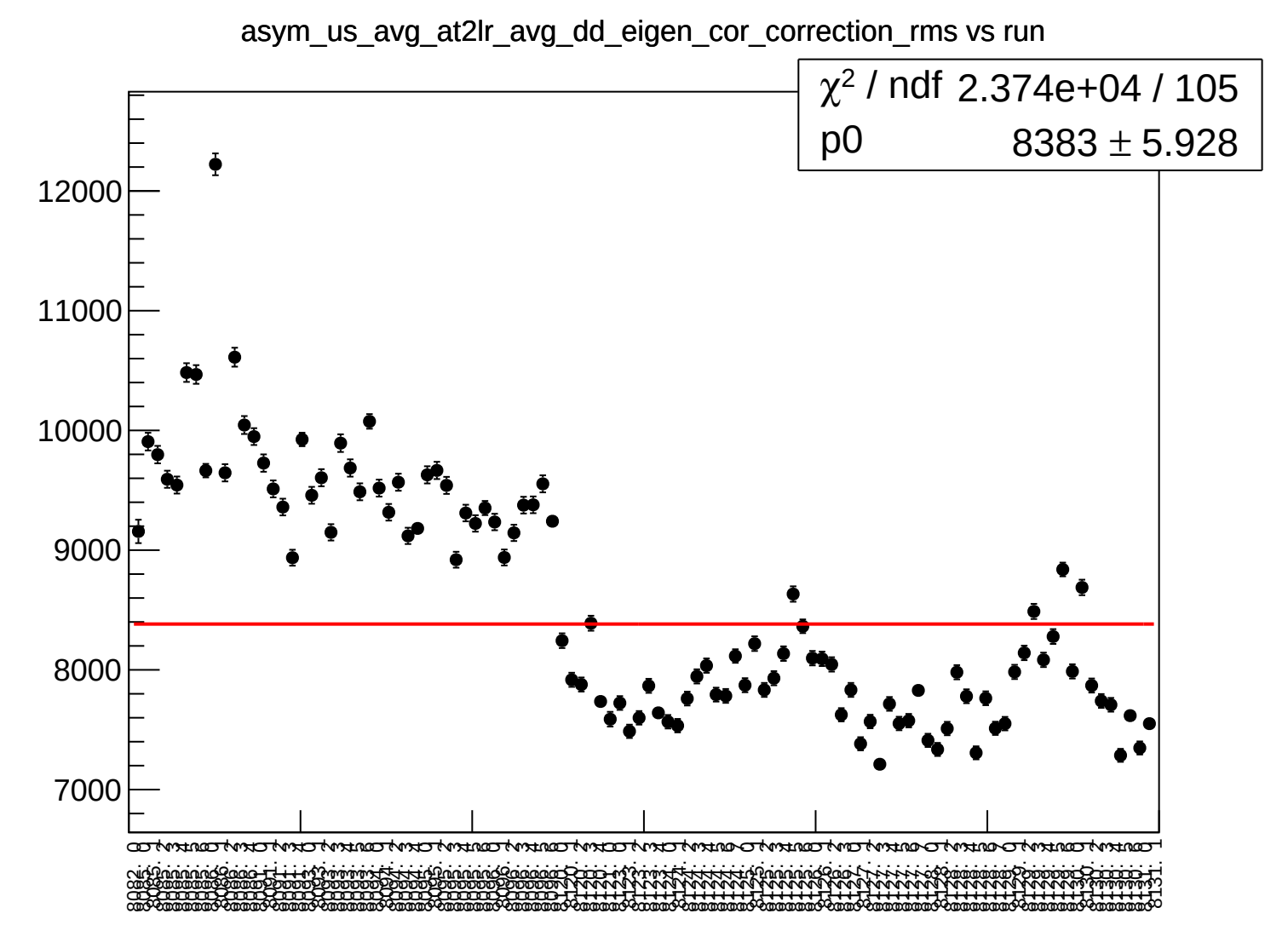

eigen_cor_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 87.18 / 105
p0 227 ± 1383
40000
20000
0
−20000
−40000
pull
Entries 106
Mean −1915
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

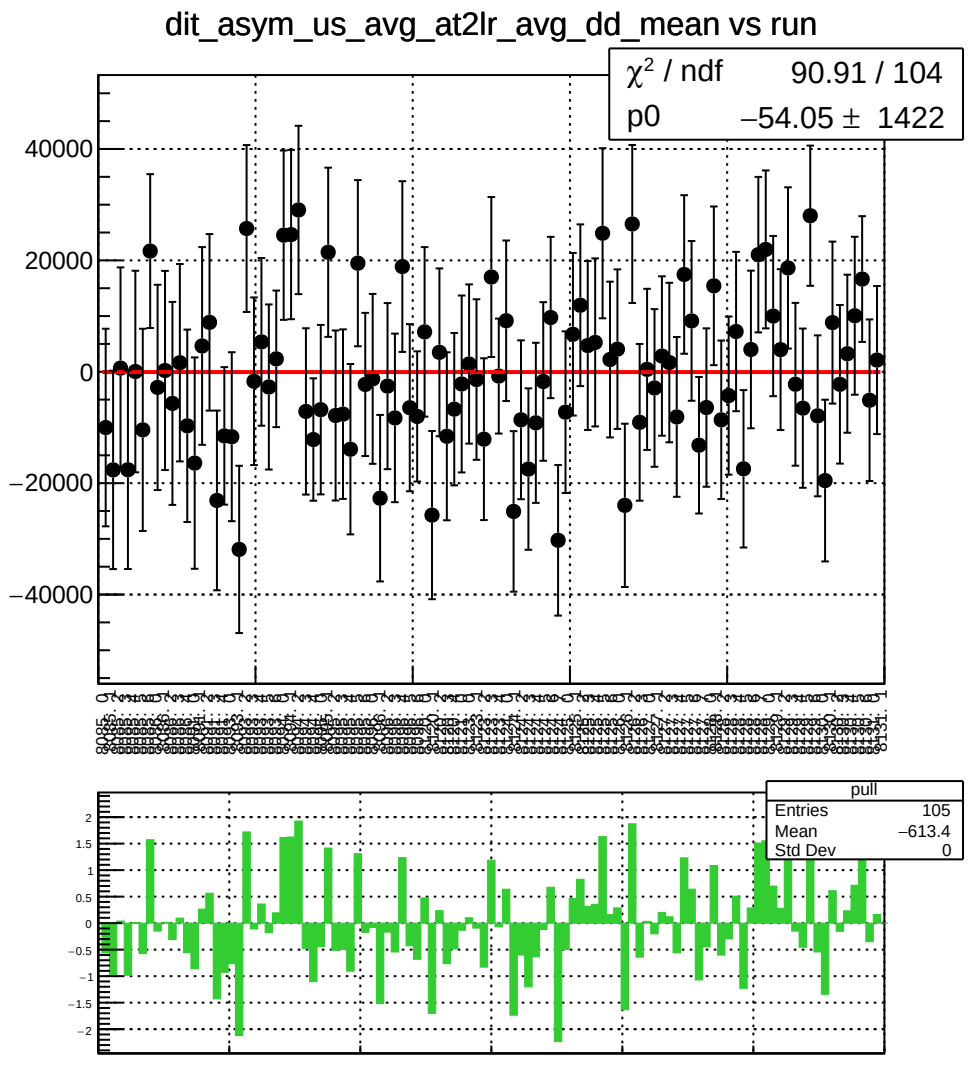

pull1D
Entries 106
Mean −0.002249
Std Dev 0.9069
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

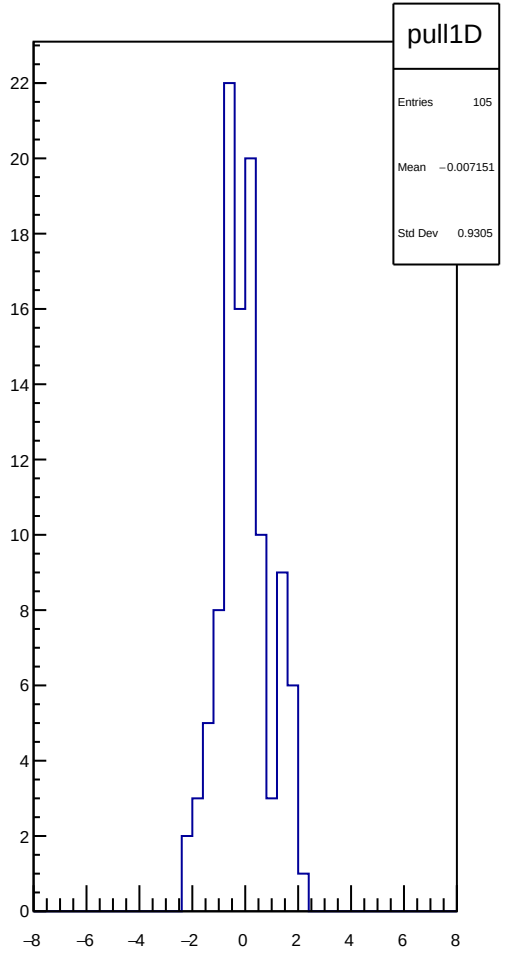

eigen_cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 3906 / 105
p0 1390 ± 0.9782
1600
1550
1500
1450
1400
1350
1300

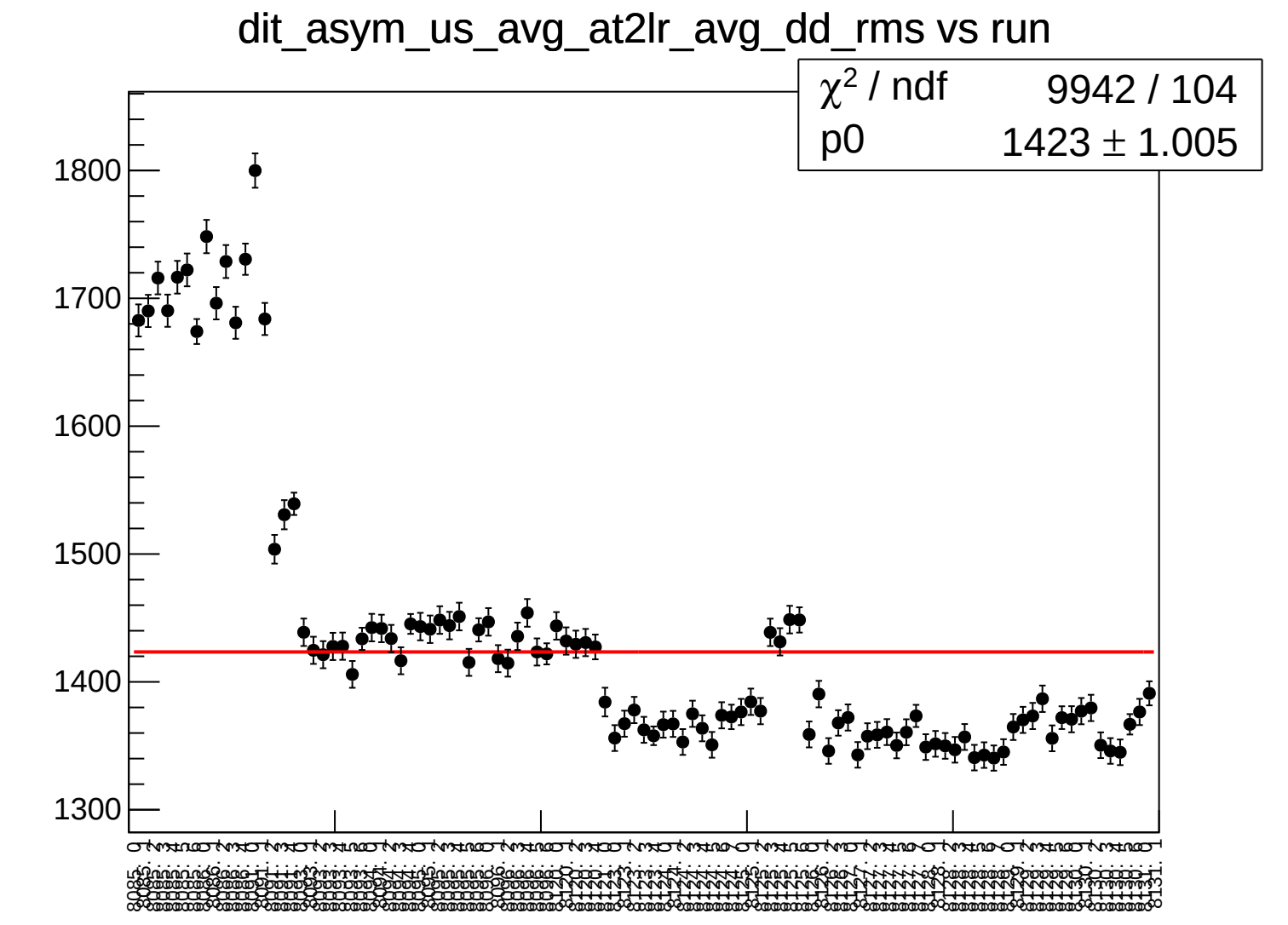

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 90.1 / 105
p0 −1.403e+04 ± 8384
pull
Entries 106
Mean −170.1
Std Dev 0

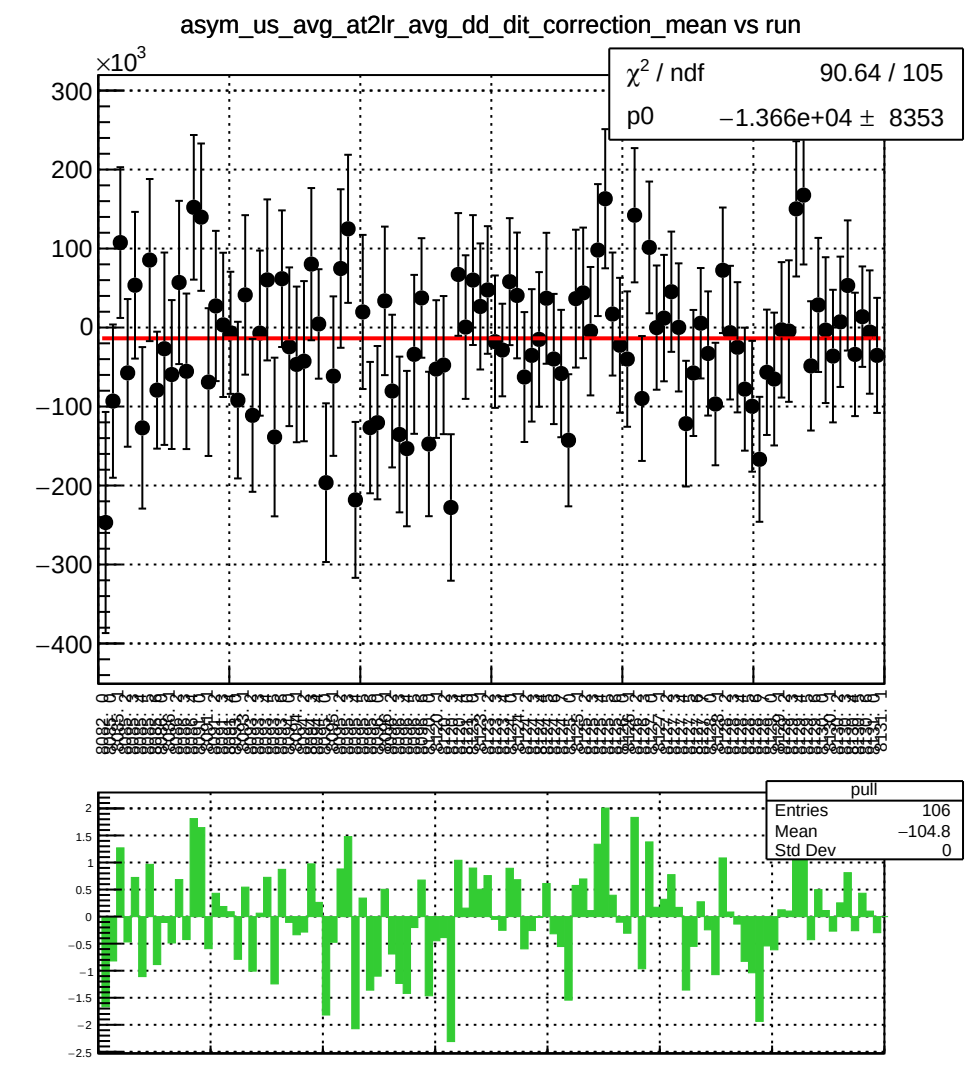

pull1D
Entries 106
Mean −0.01023
Std Dev 0.9219

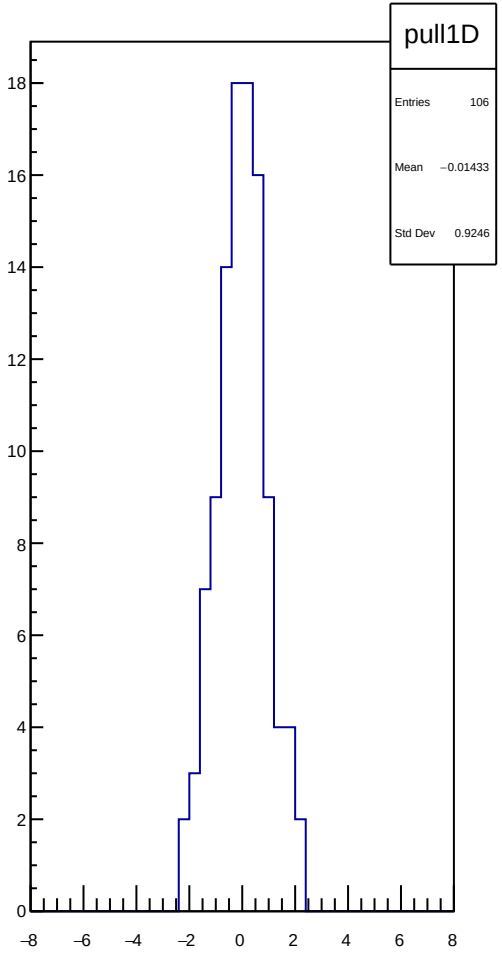

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.374e+04 / 105
p0 8383 ± 5.928
12000
11000
10000
9000
8000
7000

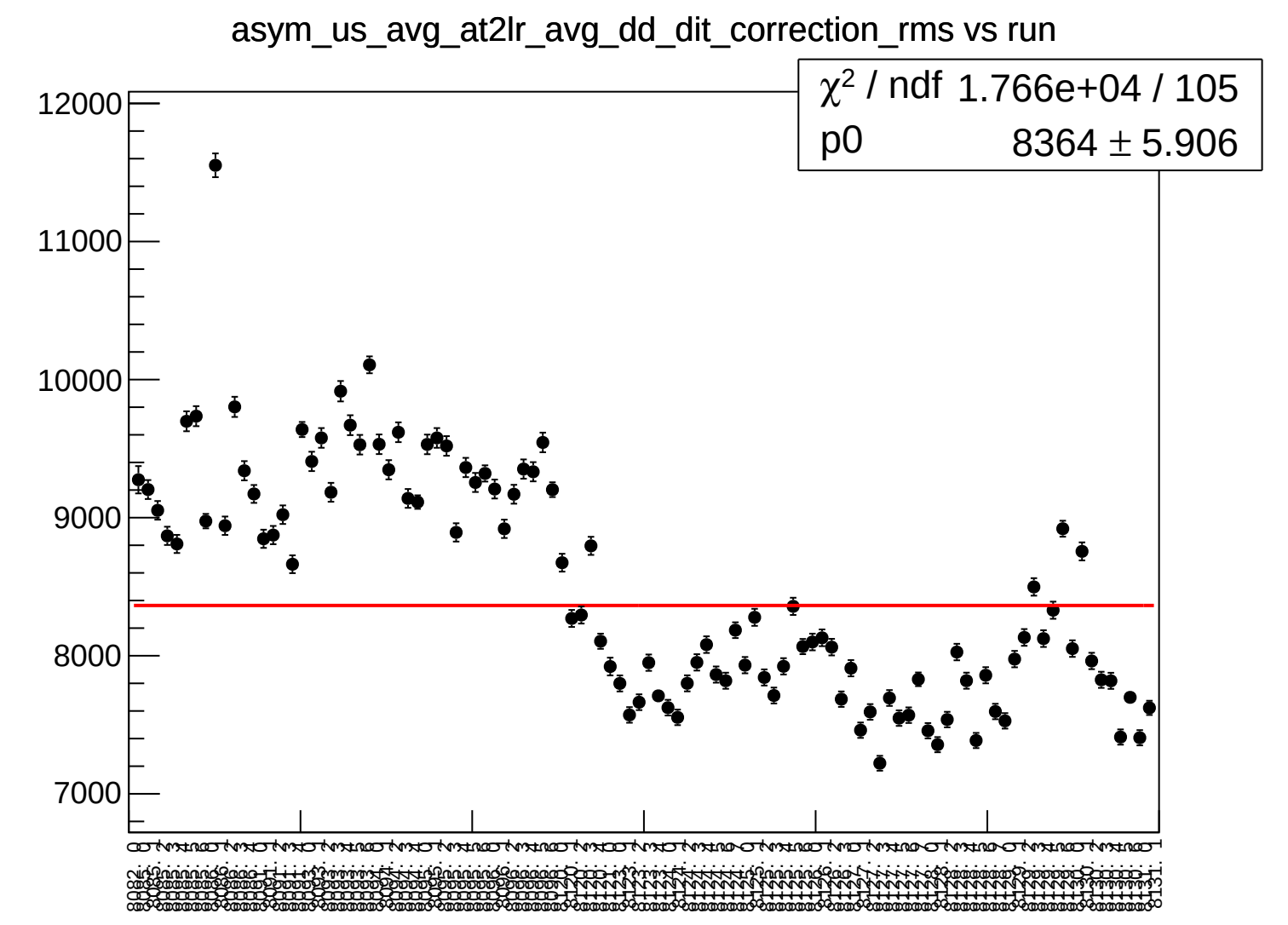

dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 90.91 / 104
p0 −54.05 ± 1422
40000
20000
0
−20000
−40000
pull
Entries 105
Mean −613.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

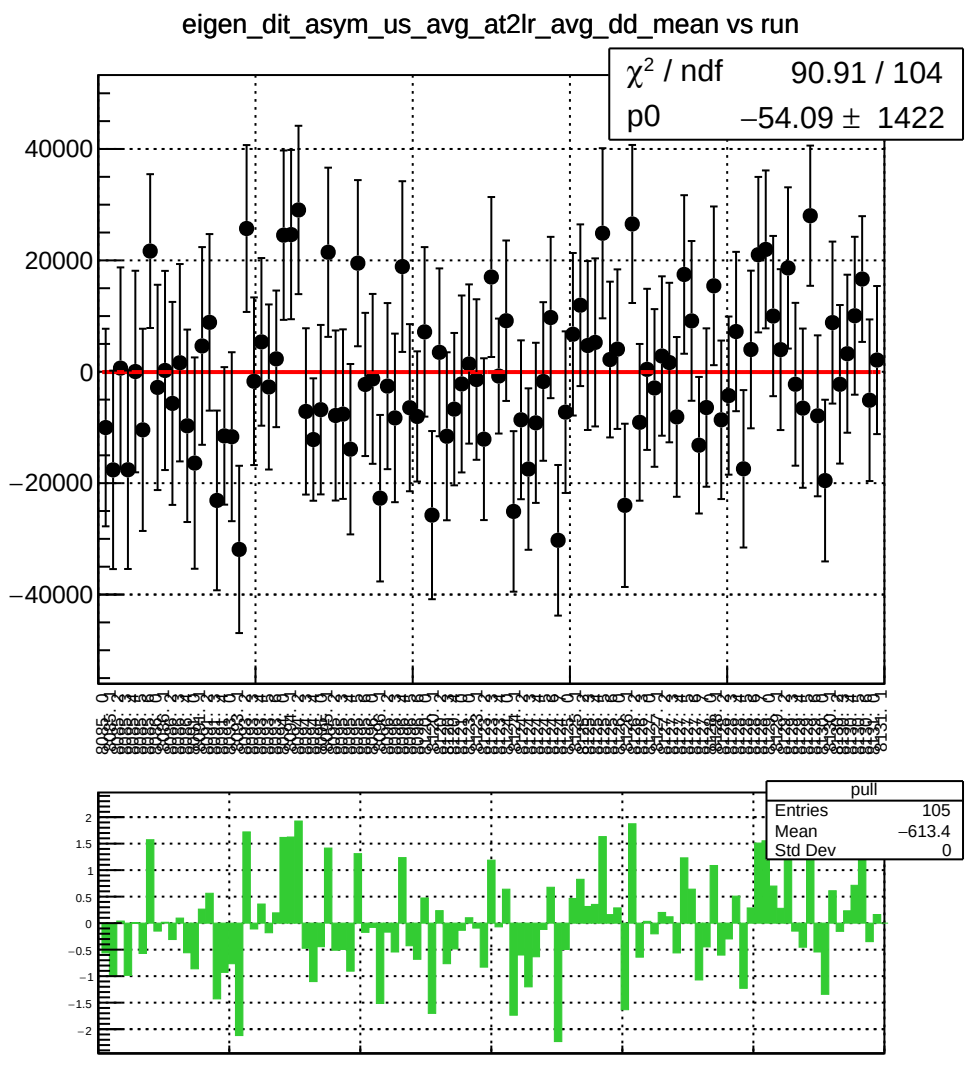

pull1D
Entries 105
Mean −0.007151
Std Dev 0.9305
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

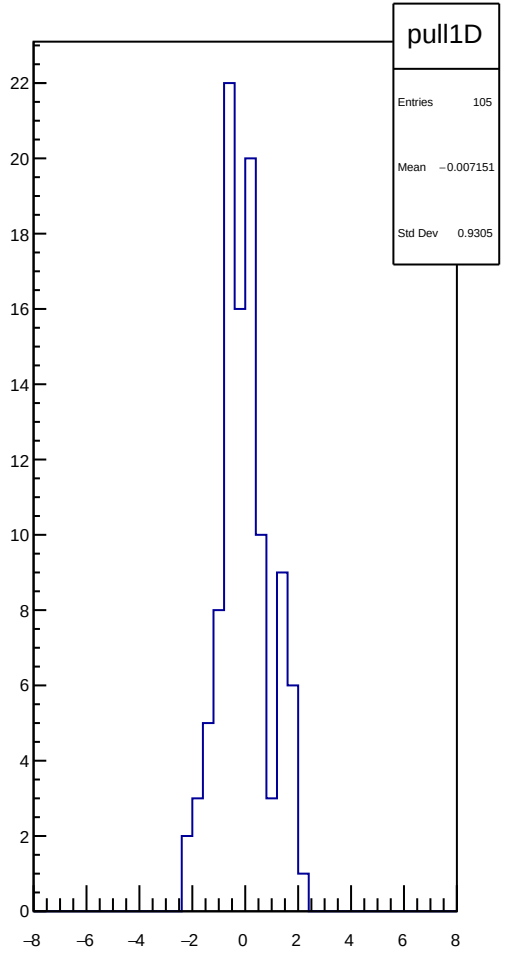

dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 9942 / 104
p0 1423 ± 1.005
1800
1700
1600
1500
1400
1300

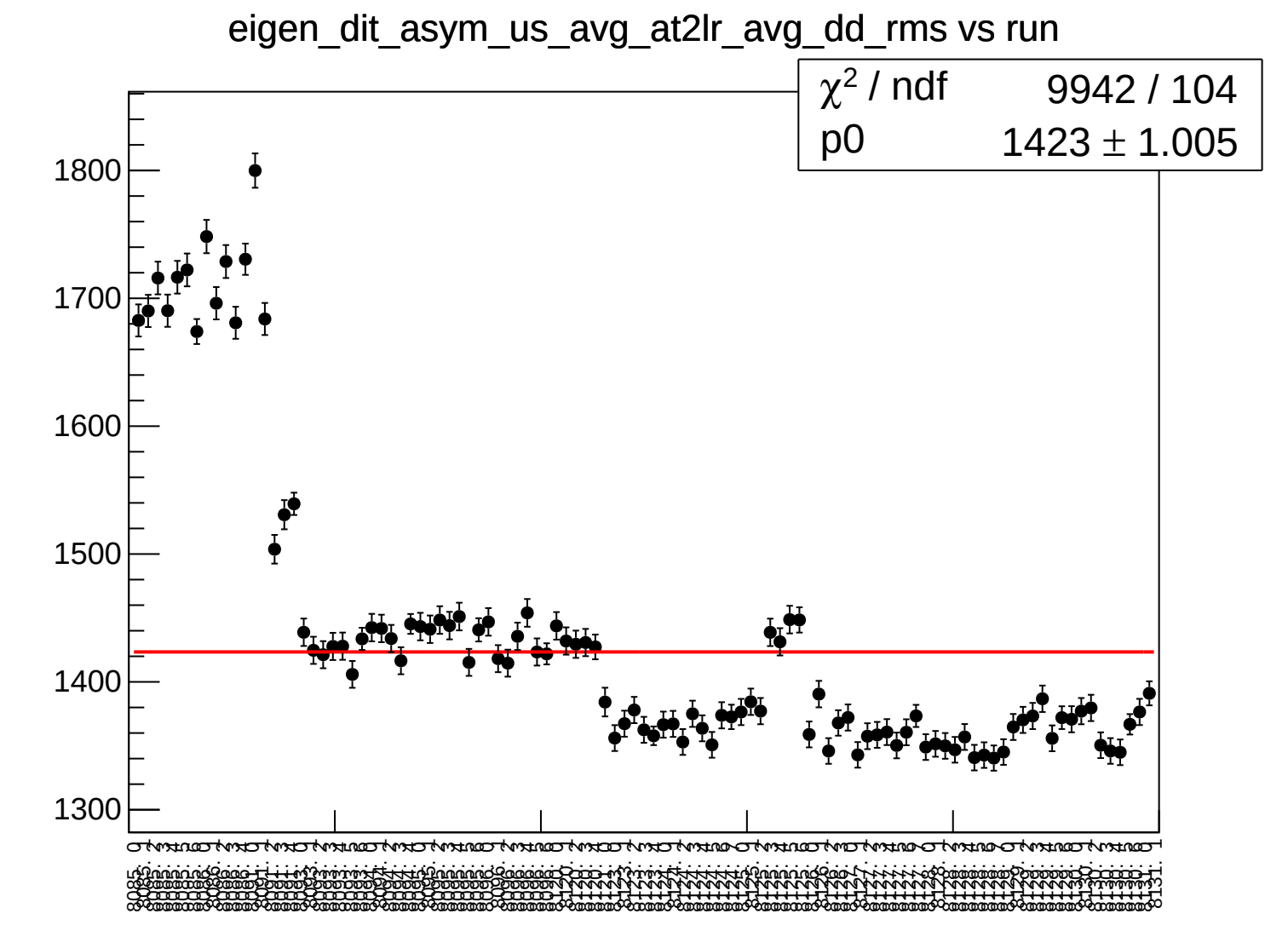

asym_us_avg_at2lr_avg_dd_dit_correction_mean vs run
×10^3
χ² / ndf 90.64 / 105
p0 −1.366e+04 ± 8353
pull
Entries 106
Mean −104.8
Std Dev 0

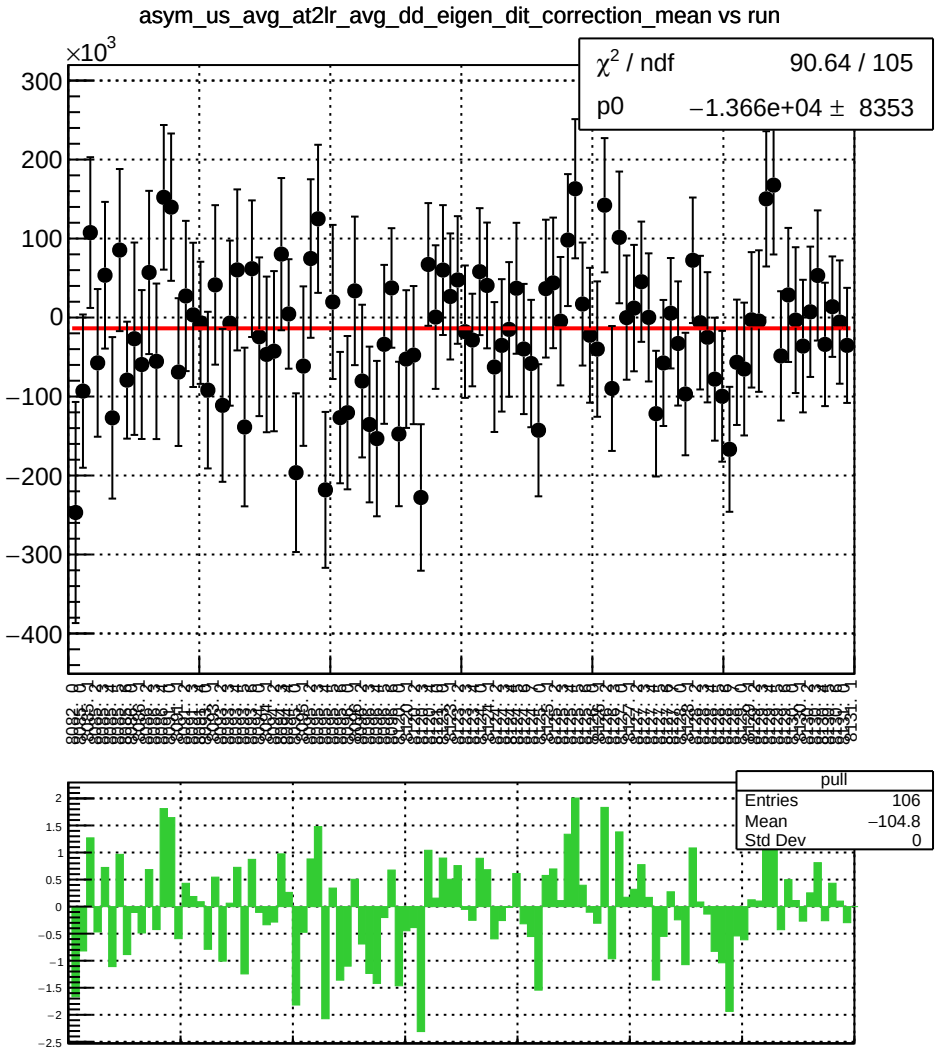

pull1D
Entries 106
Mean −0.01433
Std Dev 0.9246

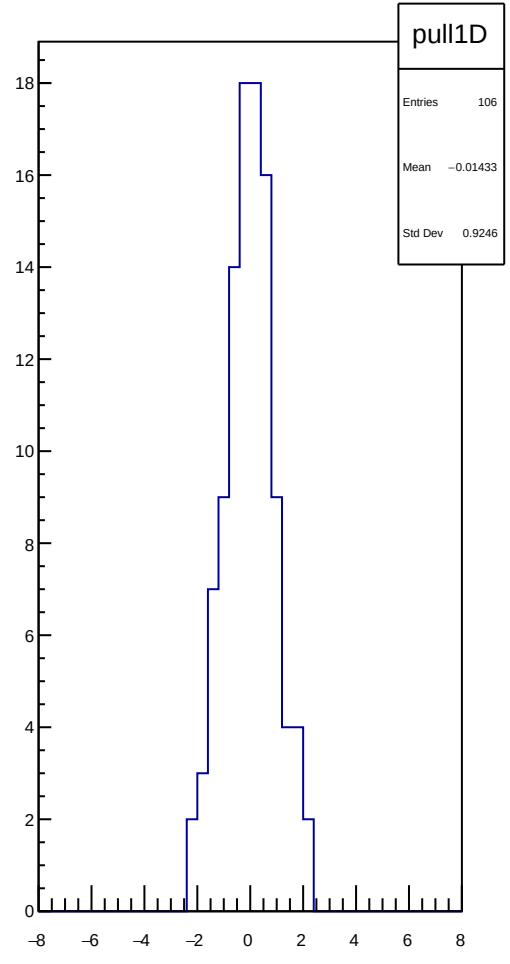

asym_us_avg_at2lr_avg_dd_dit_correction_rms vs run
χ² / ndf 1.766e+04 / 105
p0 8364 ± 5.906
12000
11000
10000
9000
8000
7000

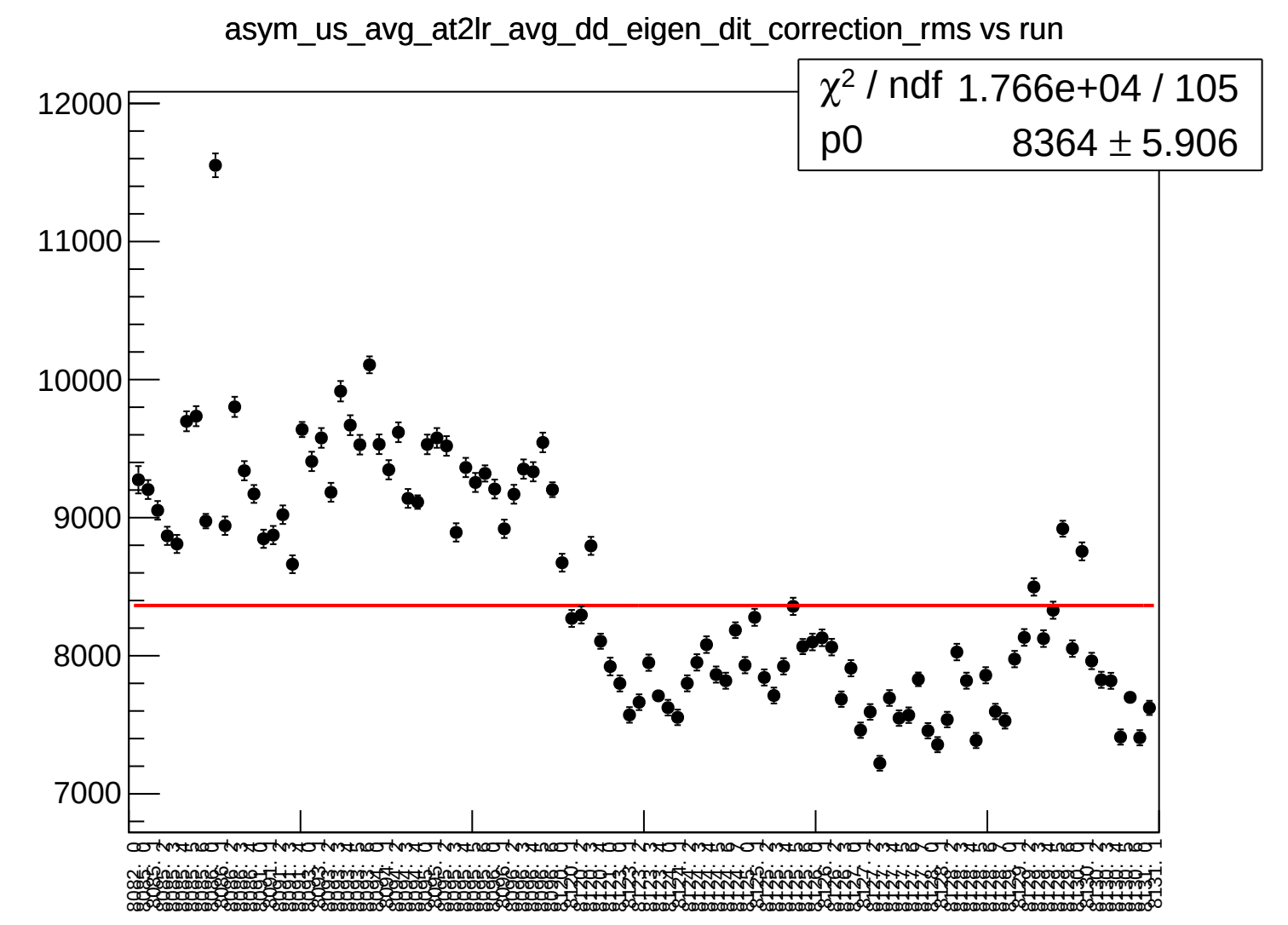

eigen_dit_asym_us_avg_at2lr_avg_dd_mean vs run
χ² / ndf 90.91 / 104
p0 −54.09 ± 1422
40000
20000
0
−20000
−40000
pull
Entries 105
Mean −613.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

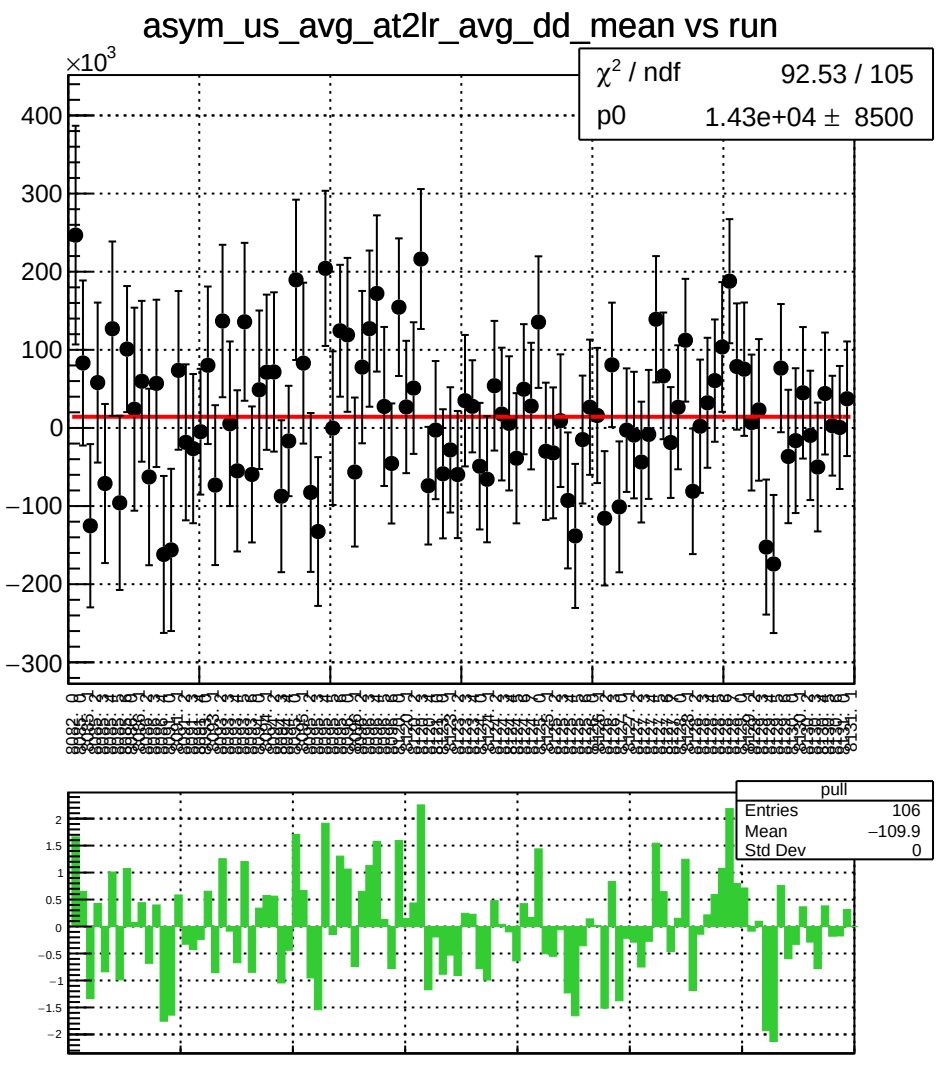

pull1D
Entries 105
Mean −0.007151
Std Dev 0.9305
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

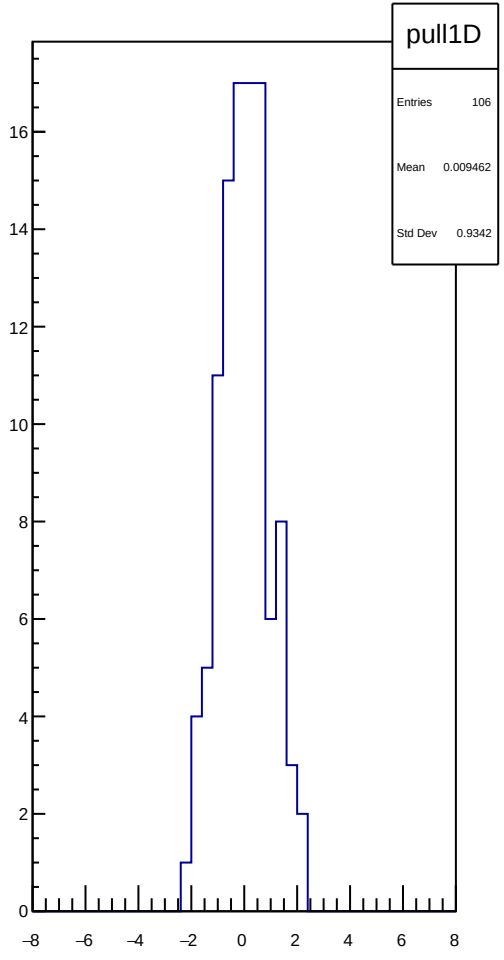

eigen_dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 9942 / 104
p0 1423 ± 1.005
1800
1700
1600
1500
1400
1300

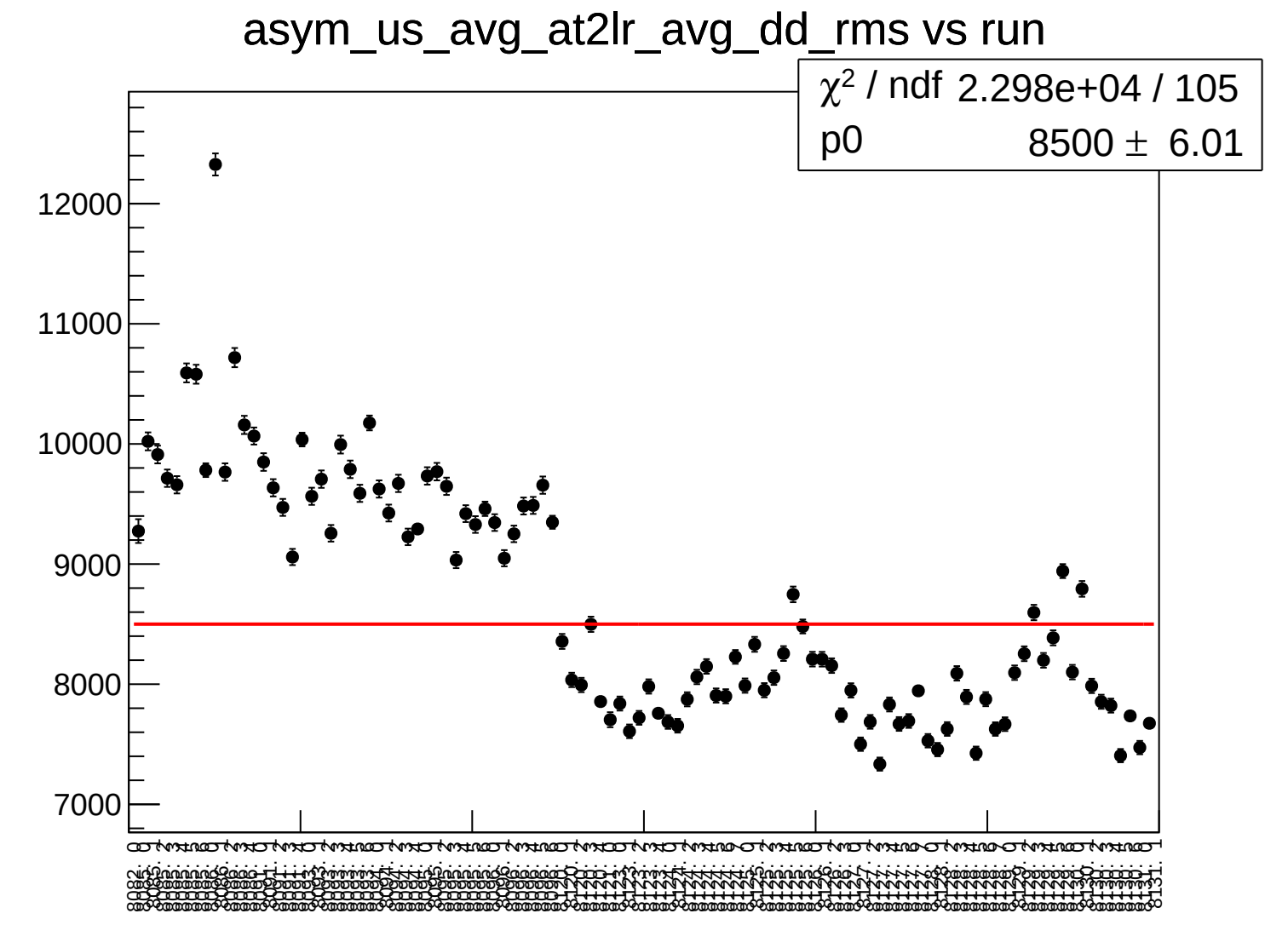

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 90.64 / 105
p0 −1.366e+04 ± 8353
pull
Entries 106
Mean −104.8
Std Dev 0

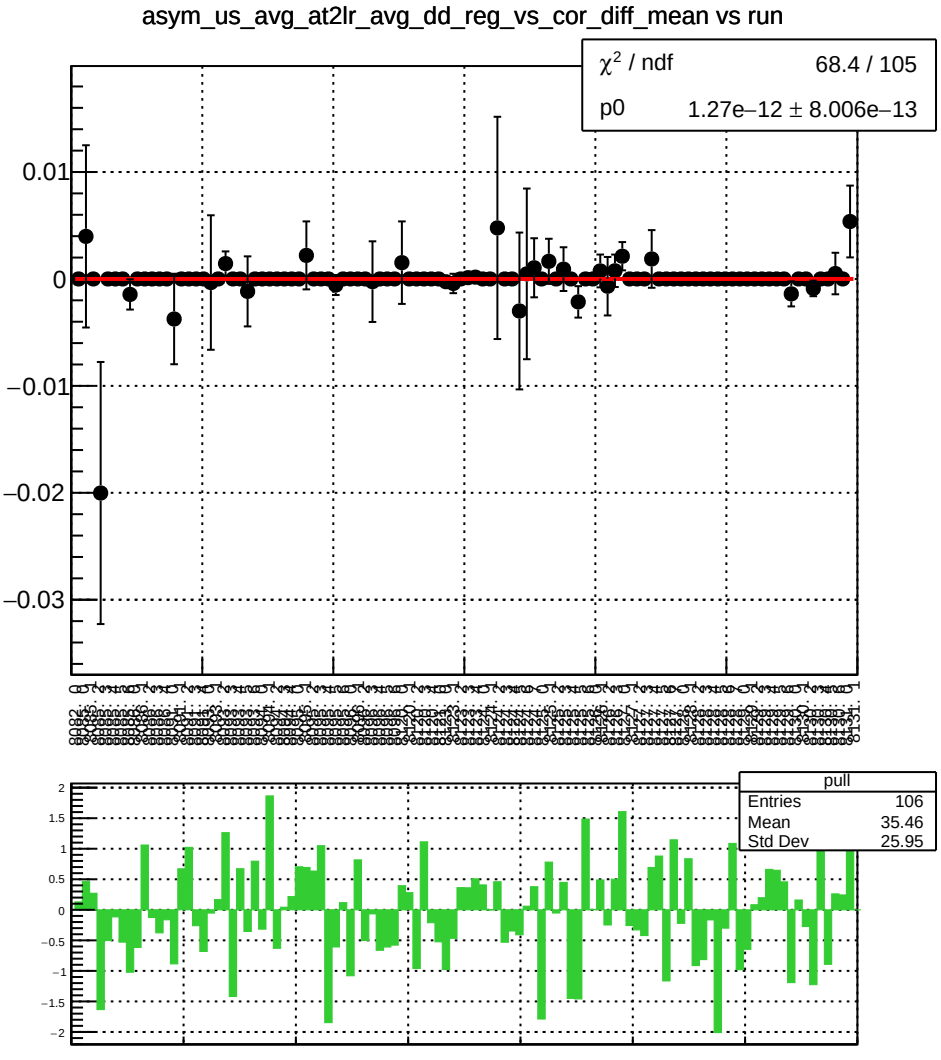

pull1D
Entries 106
Mean −0.01433
Std Dev 0.9246

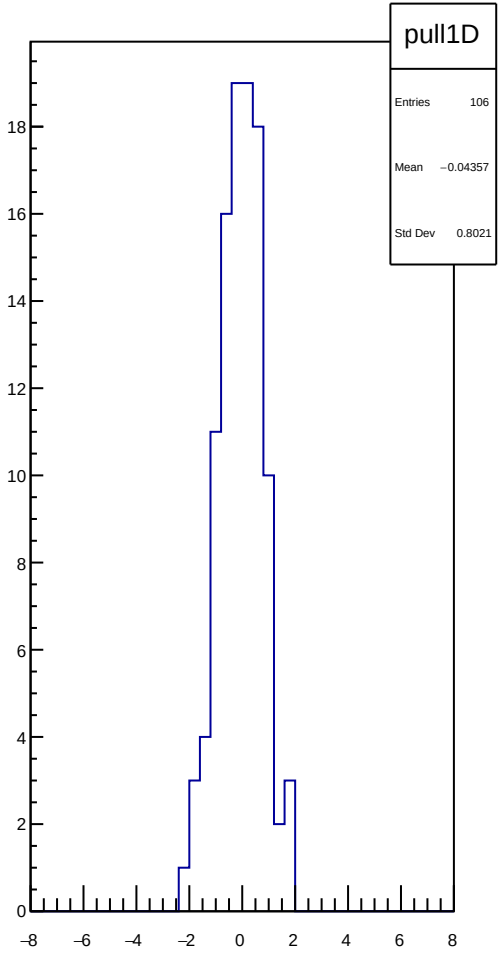

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.766e+04 / 105
p0 8364 ± 5.906
12000
11000
10000
9000
8000
7000

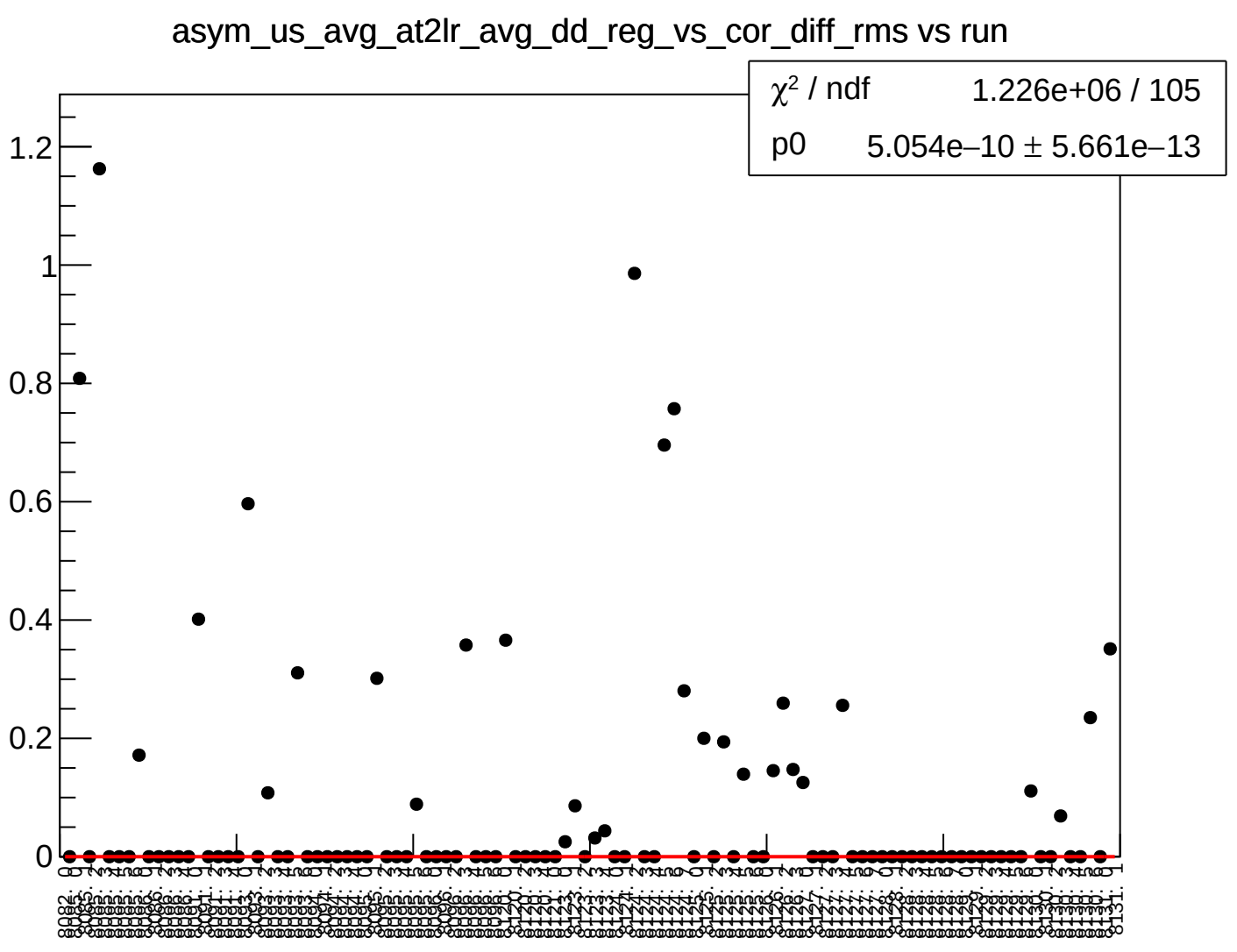

asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ² / ndf 92.53 / 105
p0 1.43e+04 ± 8500
400
300
200
100
0
−100
−200
−300
pull
Entries 106
Mean −109.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

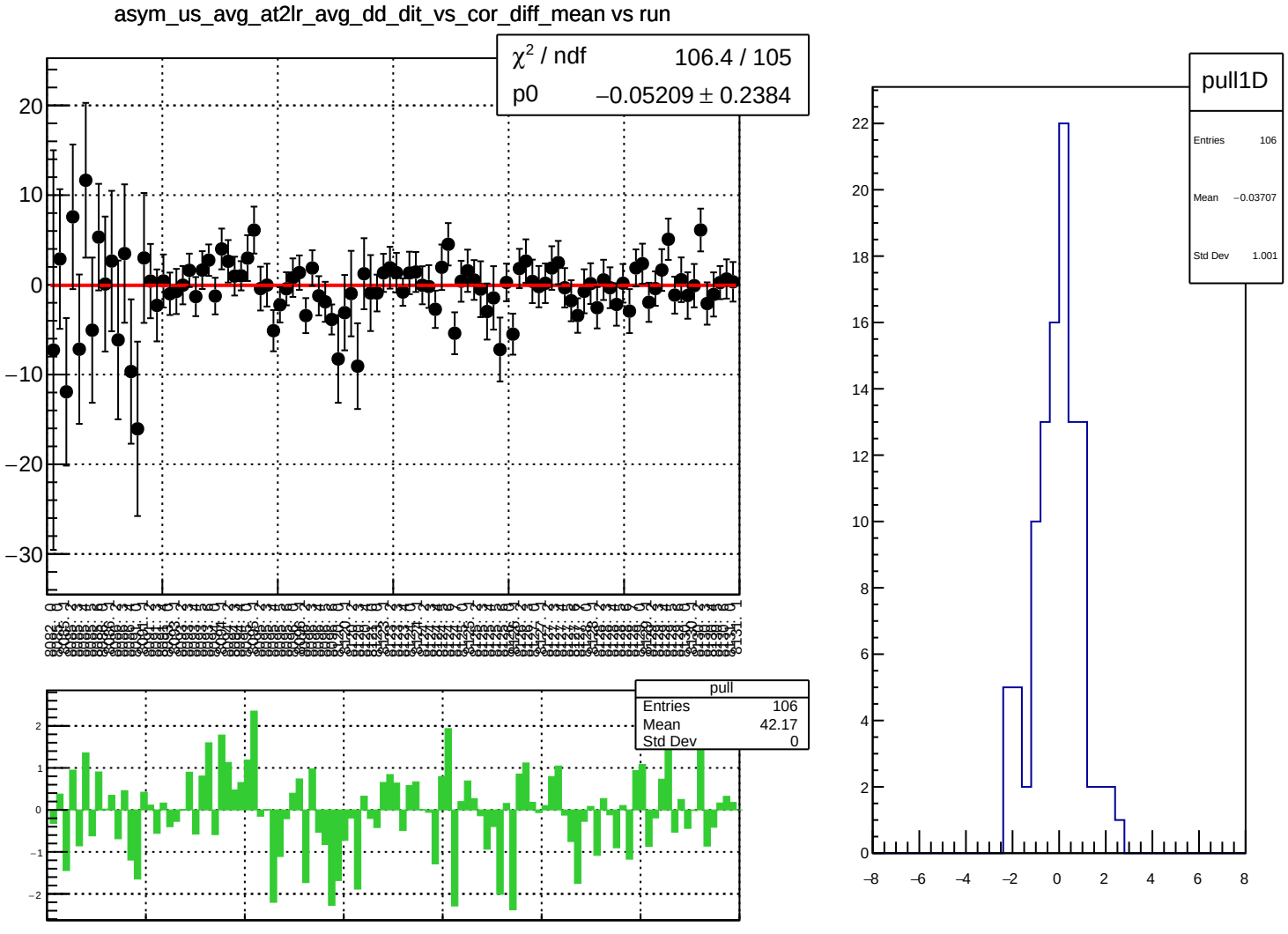

pull1D
Entries 106
Mean 0.009462
Std Dev 0.9342
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

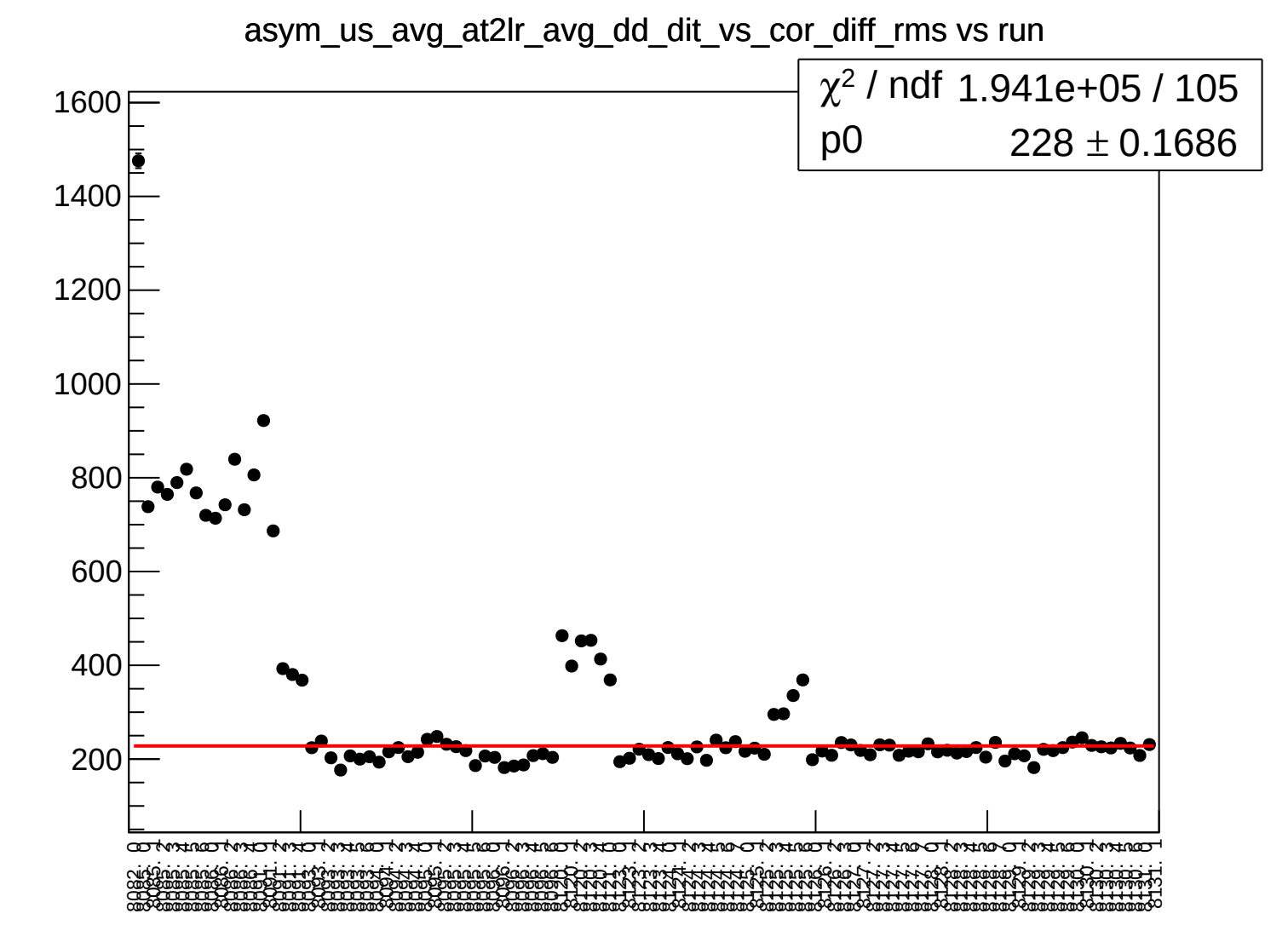

asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 2.298e+04 / 105
p0 8500 ± 6.01
12000
11000
10000
9000
8000
7000

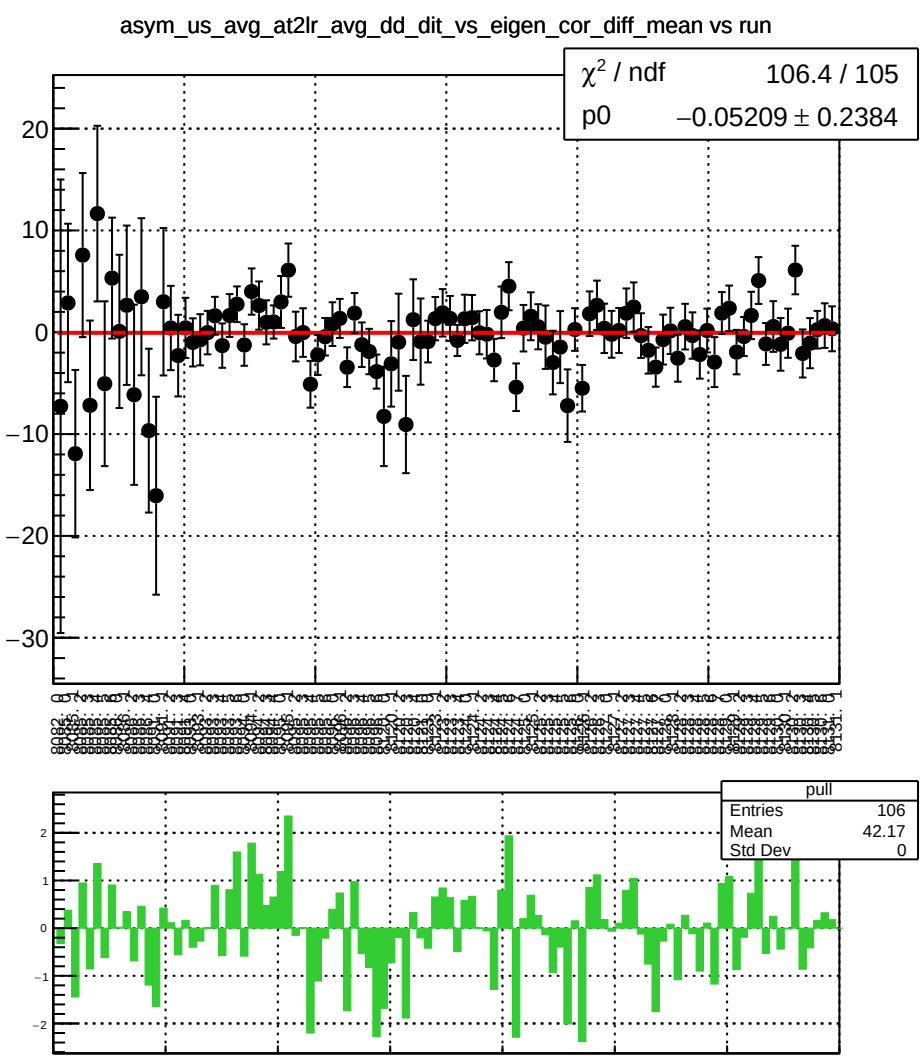

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 68.4 / 105
p0 1.27e−12 ± 8.006e−13
0.01
0
−0.01
−0.02
−0.03
pull
Entries 106
Mean 35.46
Std Dev 25.95
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

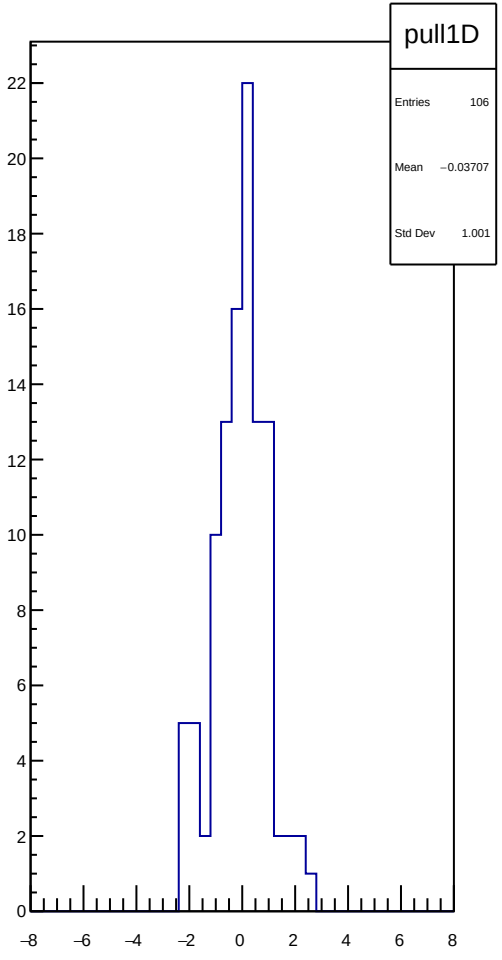

pull1D
Entries 106
Mean −0.04357
Std Dev 0.8021
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

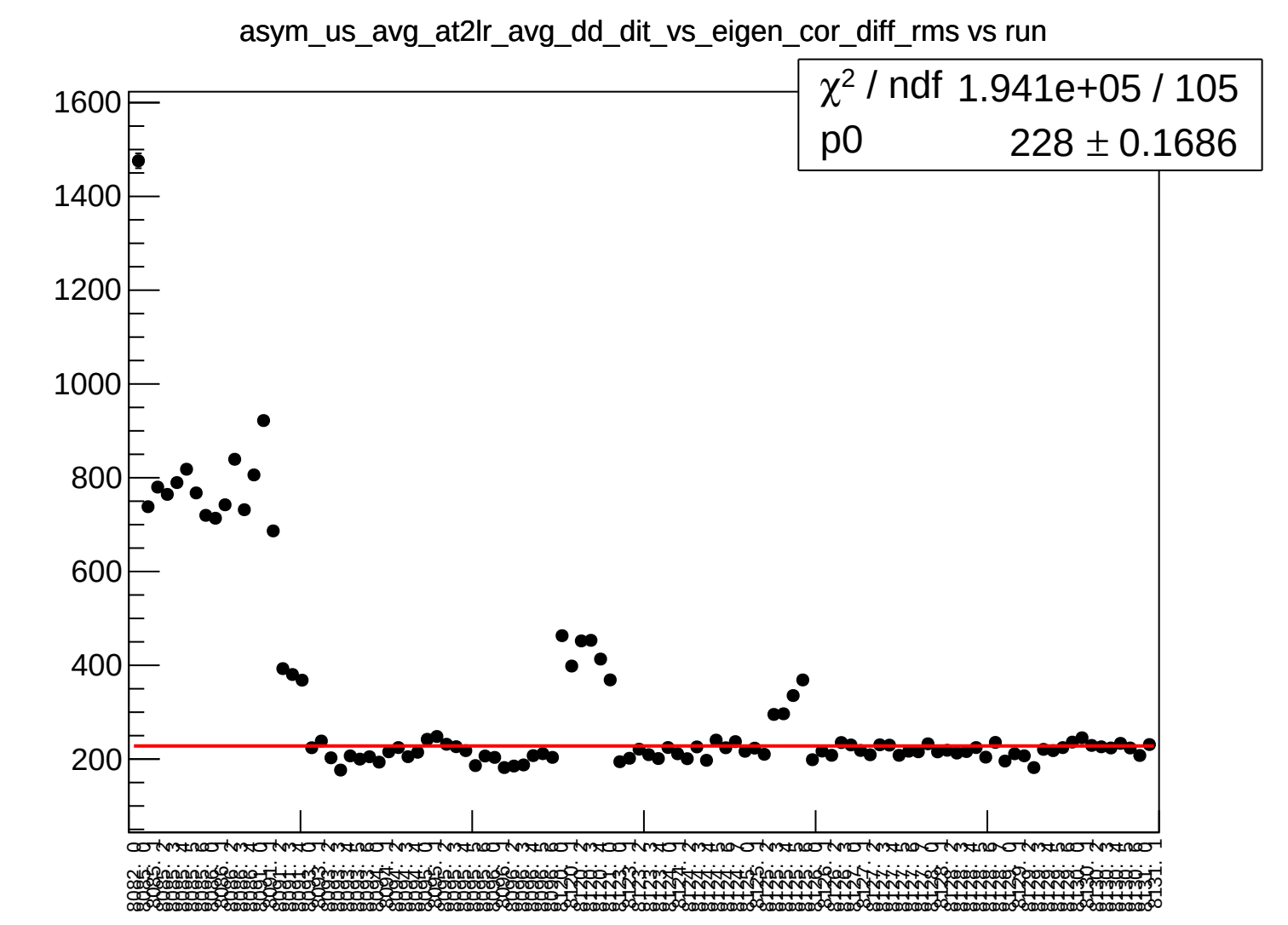

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.226e+06 / 105
p0 5.054e−10 ± 5.661e−13
1.2
1
0.8
0.6
0.4
0.2
0

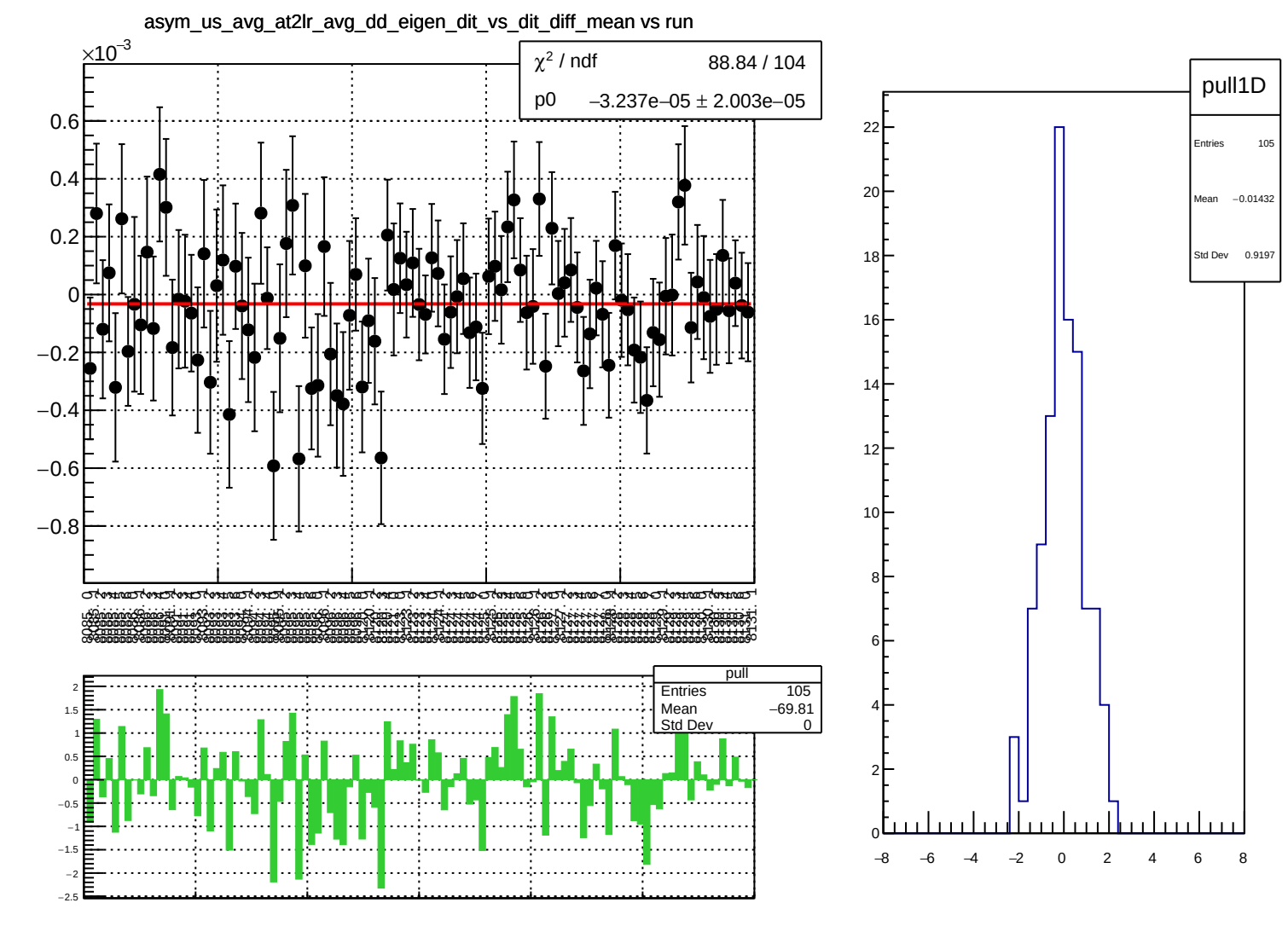

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 106.4 / 105
p0 −0.05209 ± 0.2384
pull
Entries 106
Mean 42.17
Std Dev 0
pull1D
Entries 106
Mean −0.03707
Std Dev 1.001

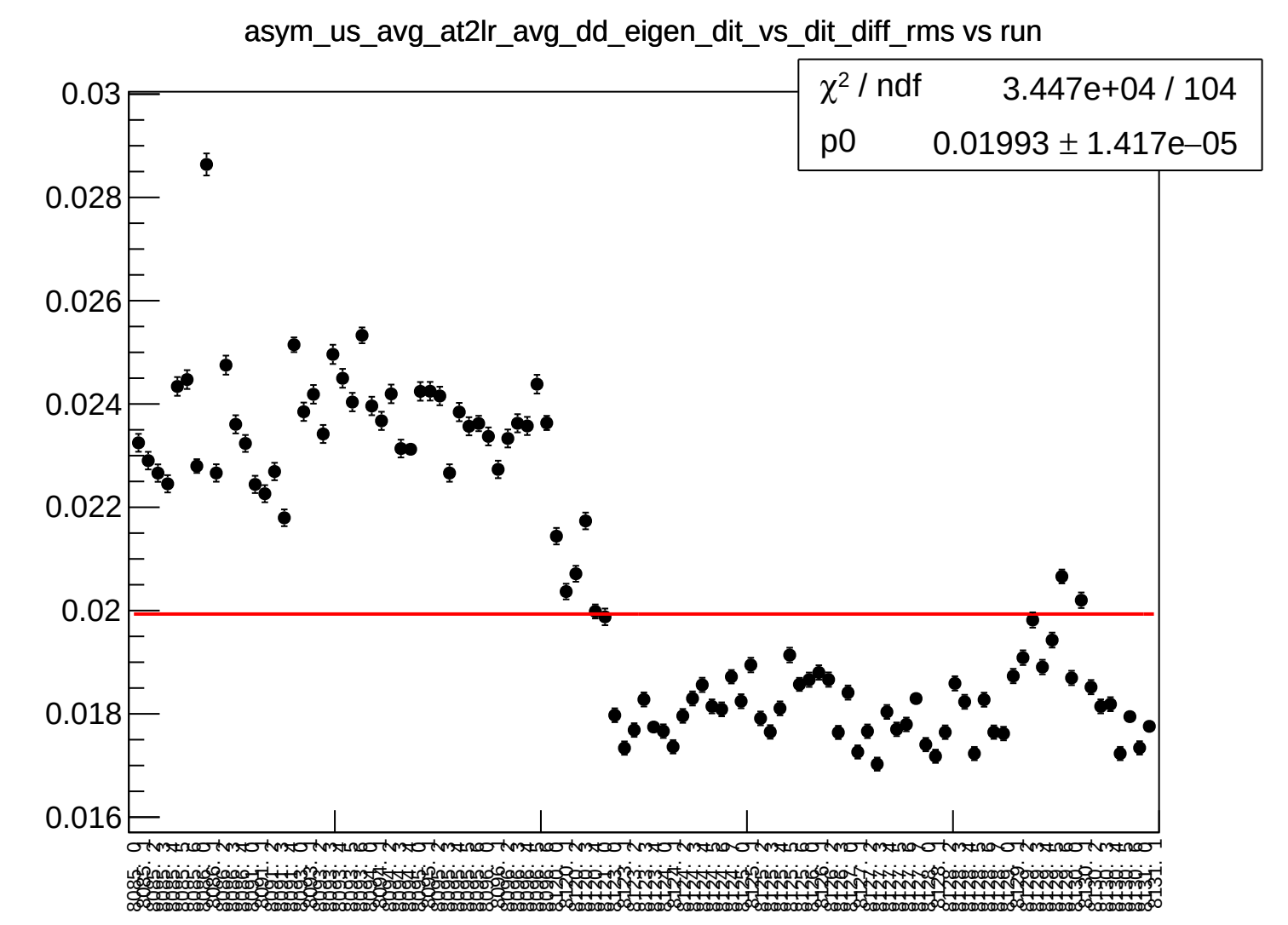

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.941e+05 / 105
p0 228 ± 0.1686
1600
1400
1200
1000
800
600
400
200

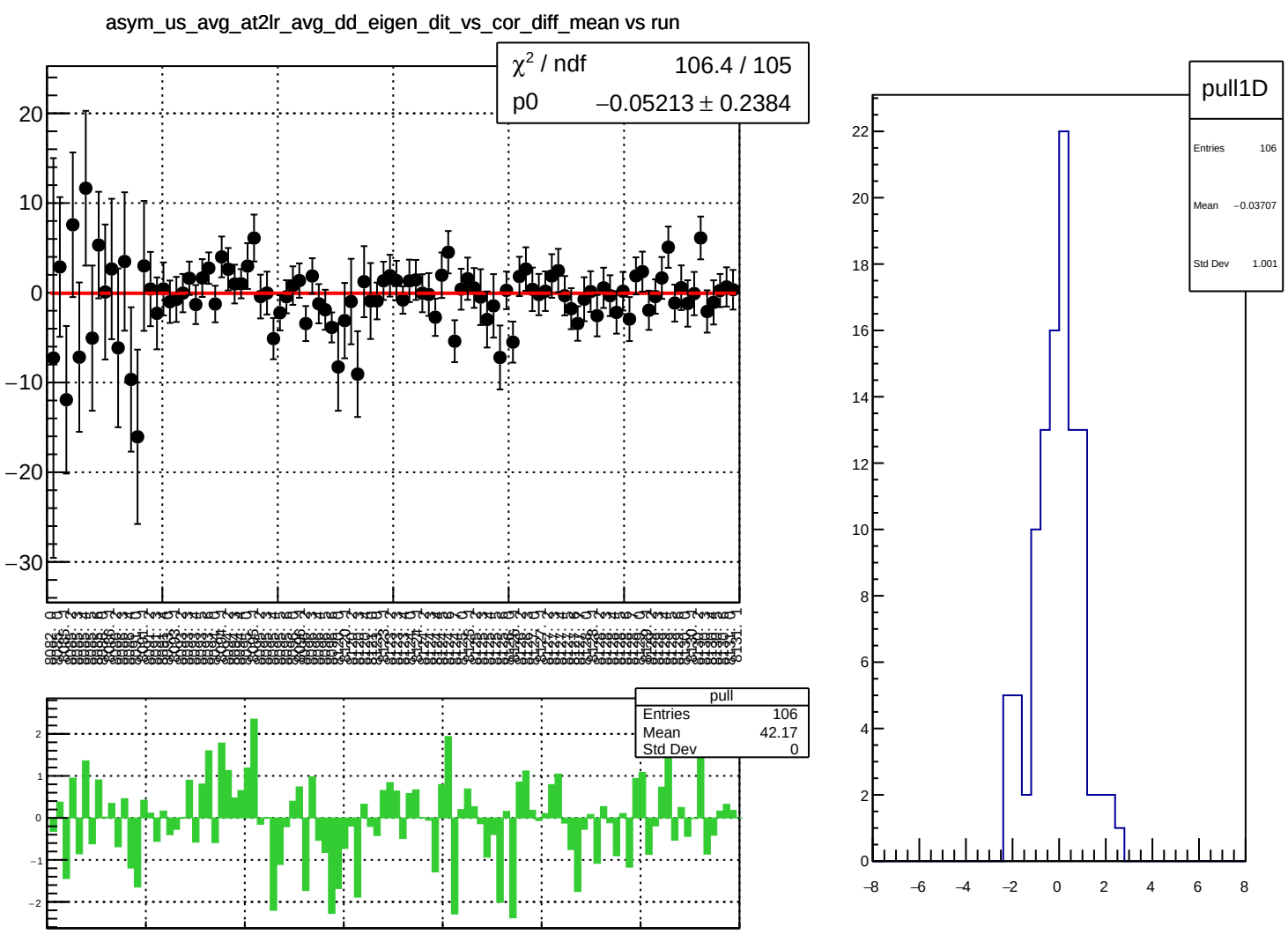

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.4 / 105
p0 −0.05209 ± 0.2384
pull
Entries 106
Mean 42.17
Std Dev 0

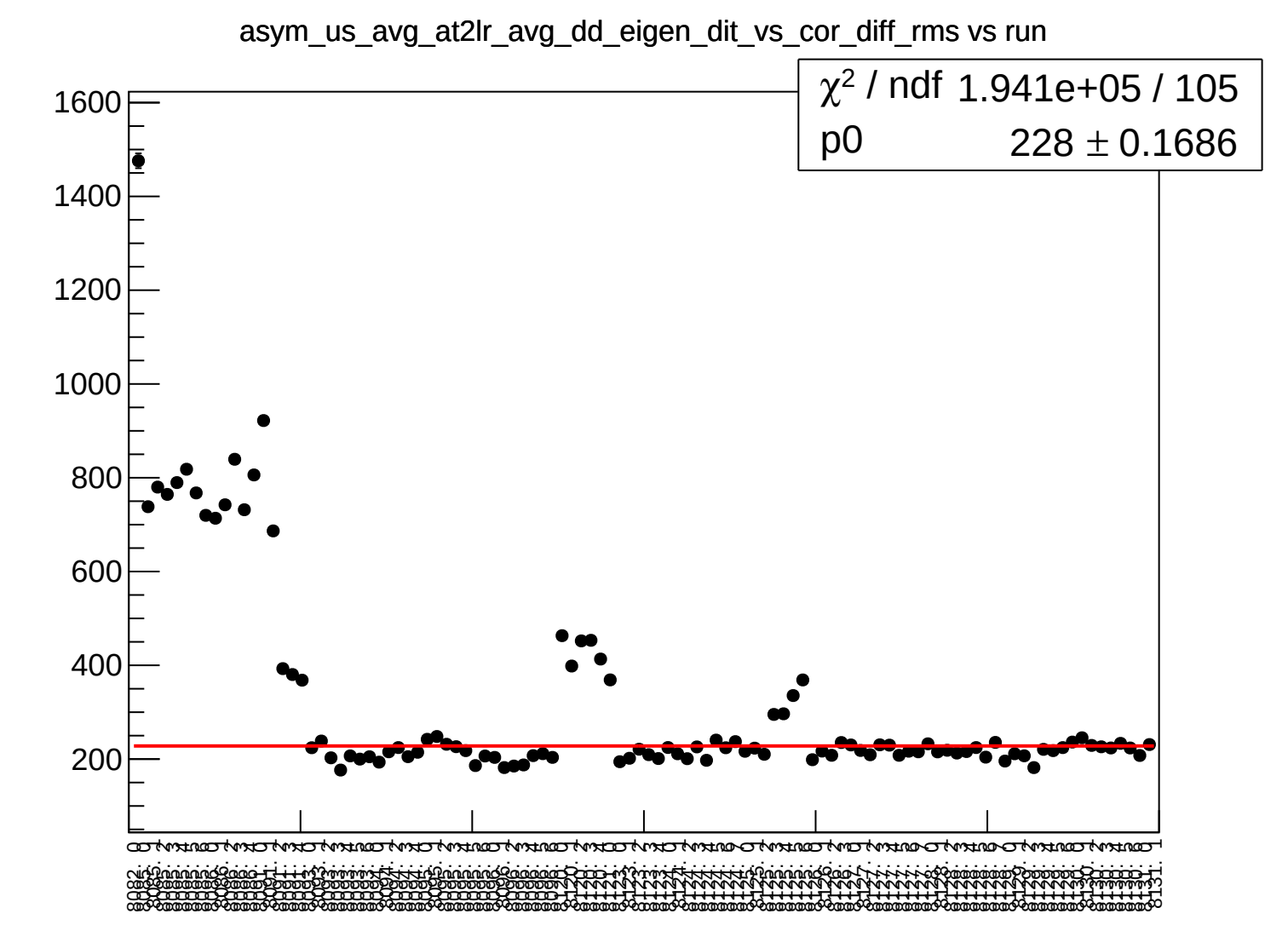

pull1D
Entries 106
Mean −0.03707
Std Dev 1.001

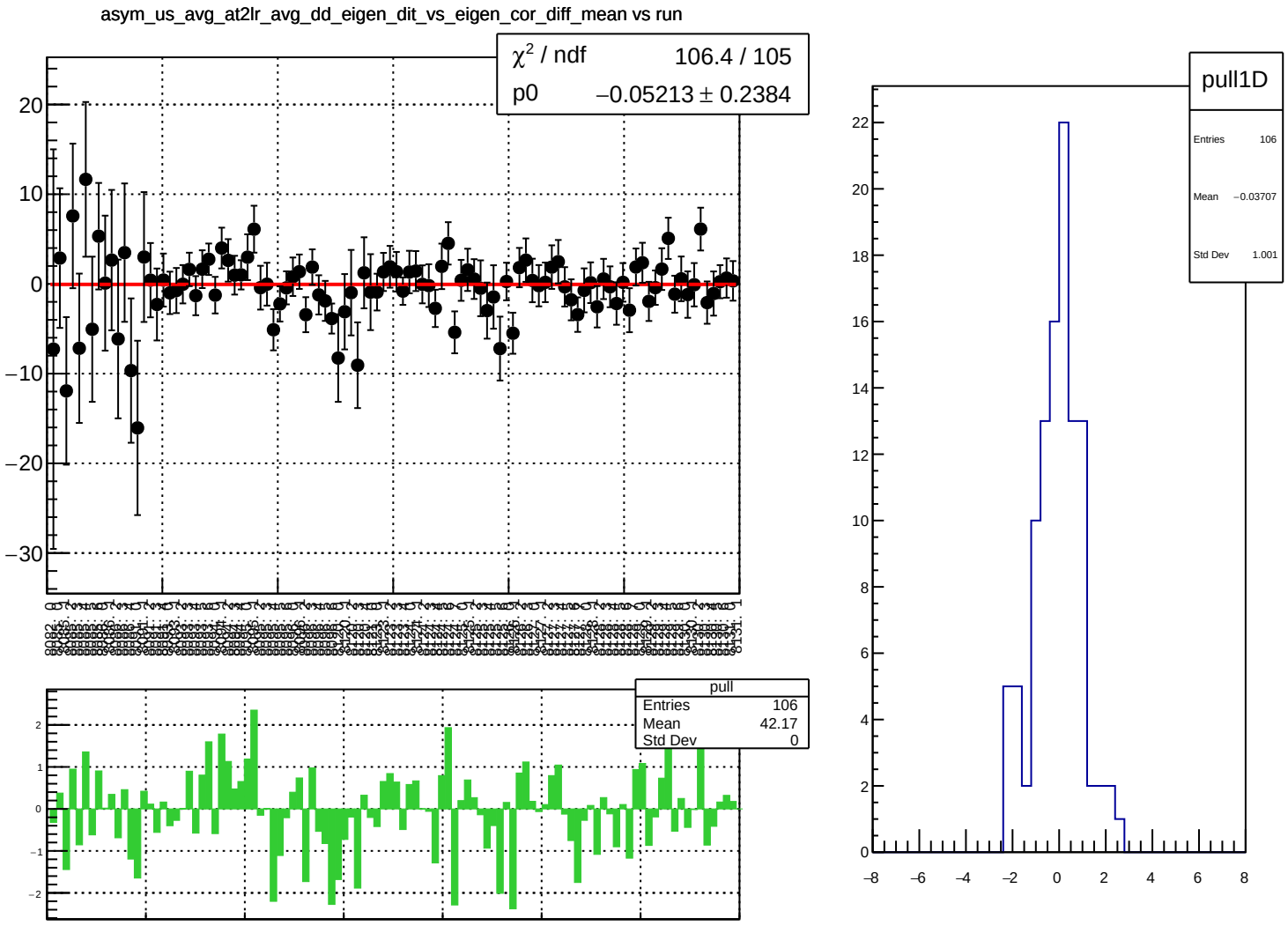

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.941e+05 / 105
p0 228 ± 0.1686
1600
1400
1200
1000
800
600
400
200

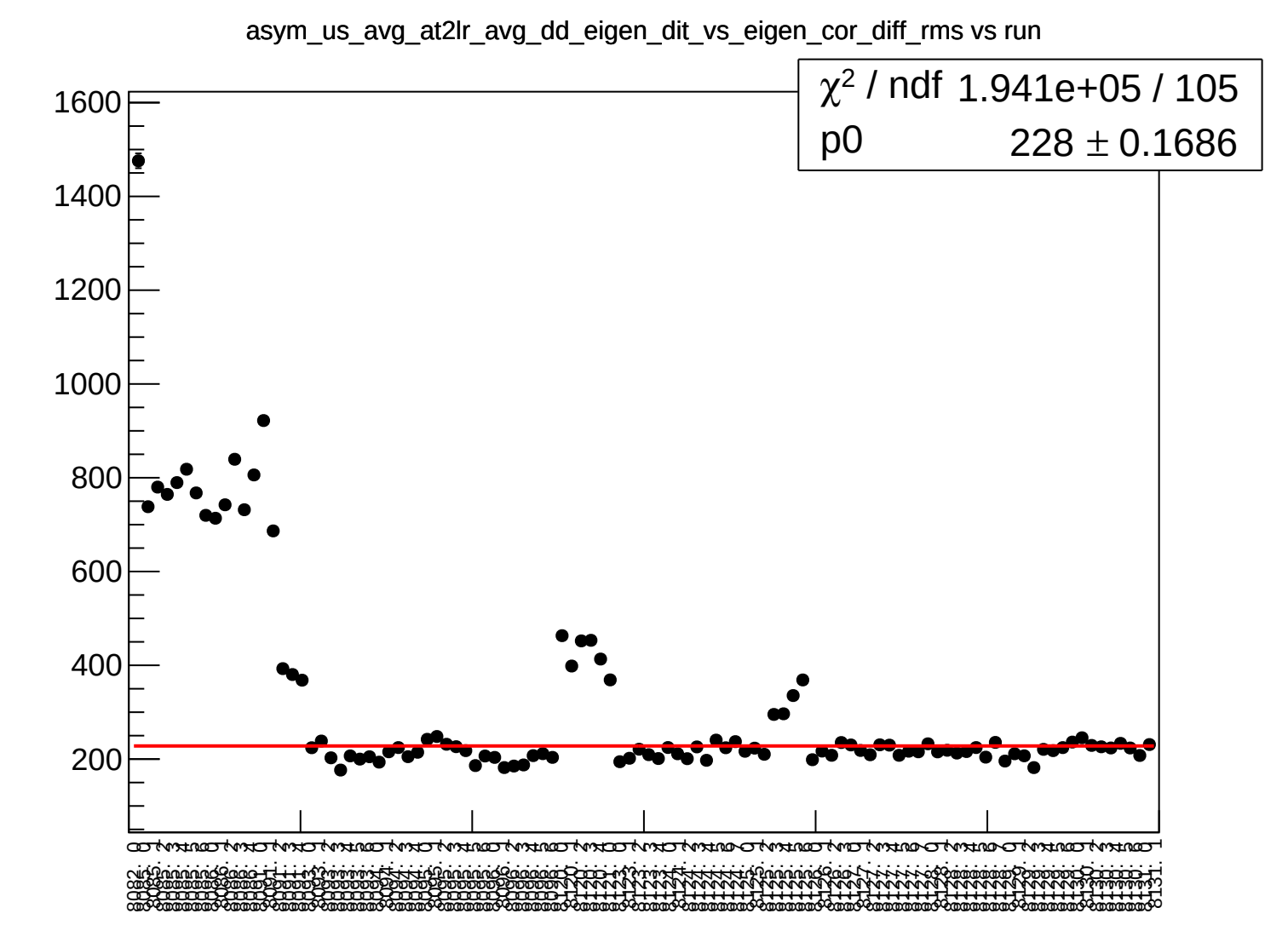

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.84 / 104
p0 −3.237e−05 ± 2.003e−05
pull
Entries 105
Mean −69.81
Std Dev 0
pull1D
Entries 105
Mean −0.01432
Std Dev 0.9197

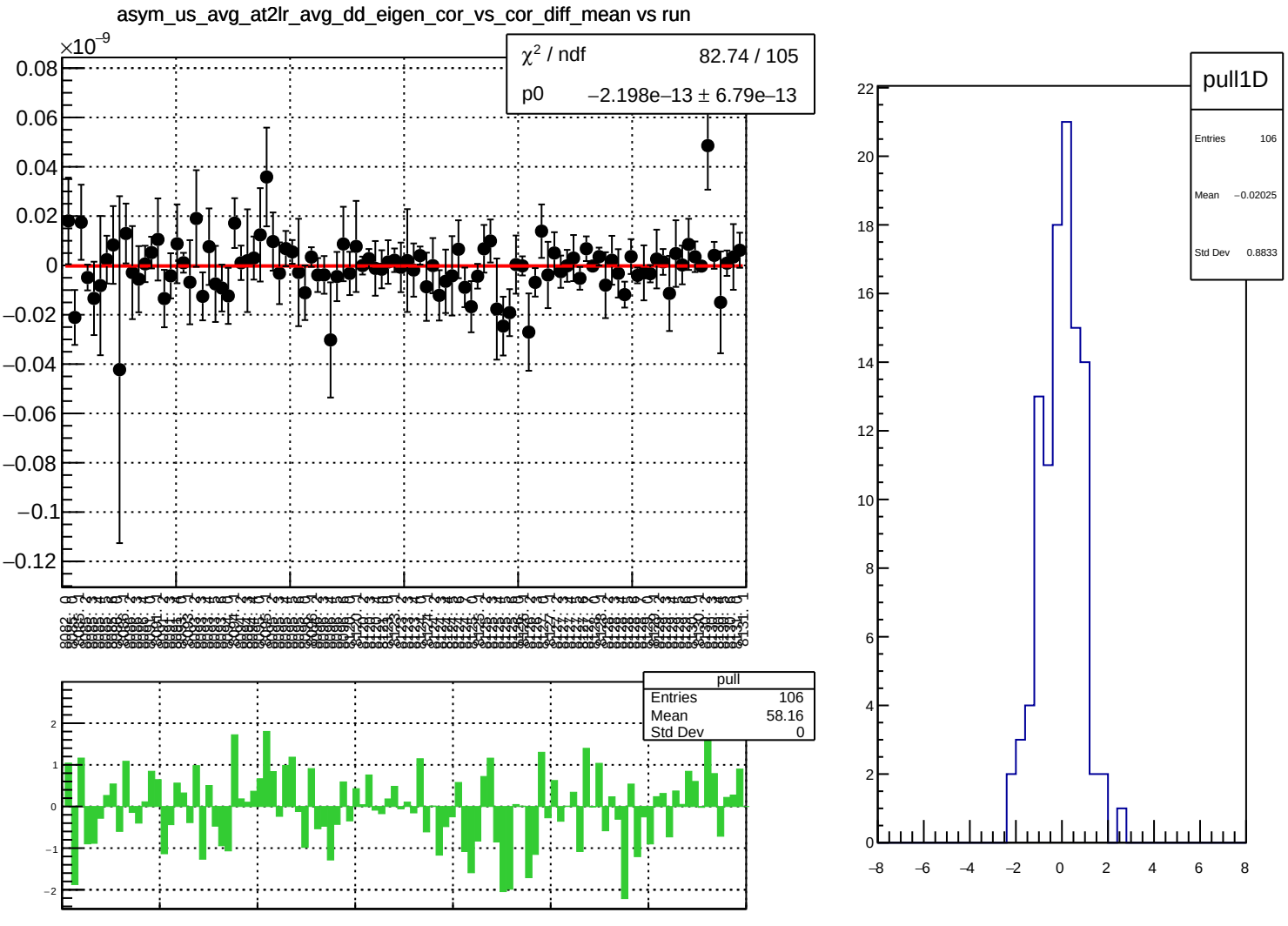

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.447e+04 / 104
p0 0.01993 ± 1.417e−05
0.03
0.028
0.026
0.024
0.022
0.02
0.018
0.016

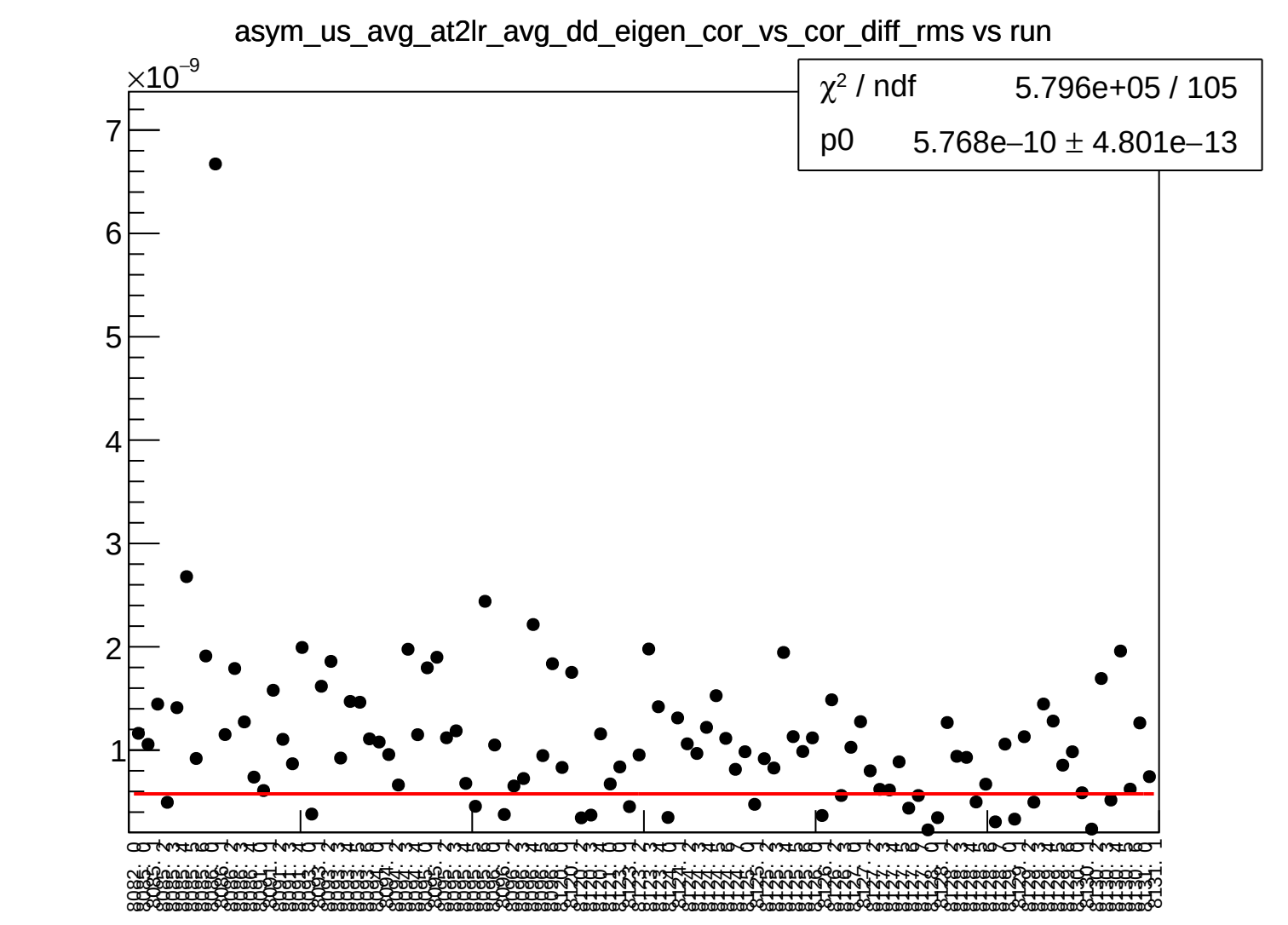

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 106.4 / 105
p0 −0.05213 ± 0.2384
pull
Entries 106
Mean 42.17
Std Dev 0
pull1D
Entries 106
Mean −0.03707
Std Dev 1.001

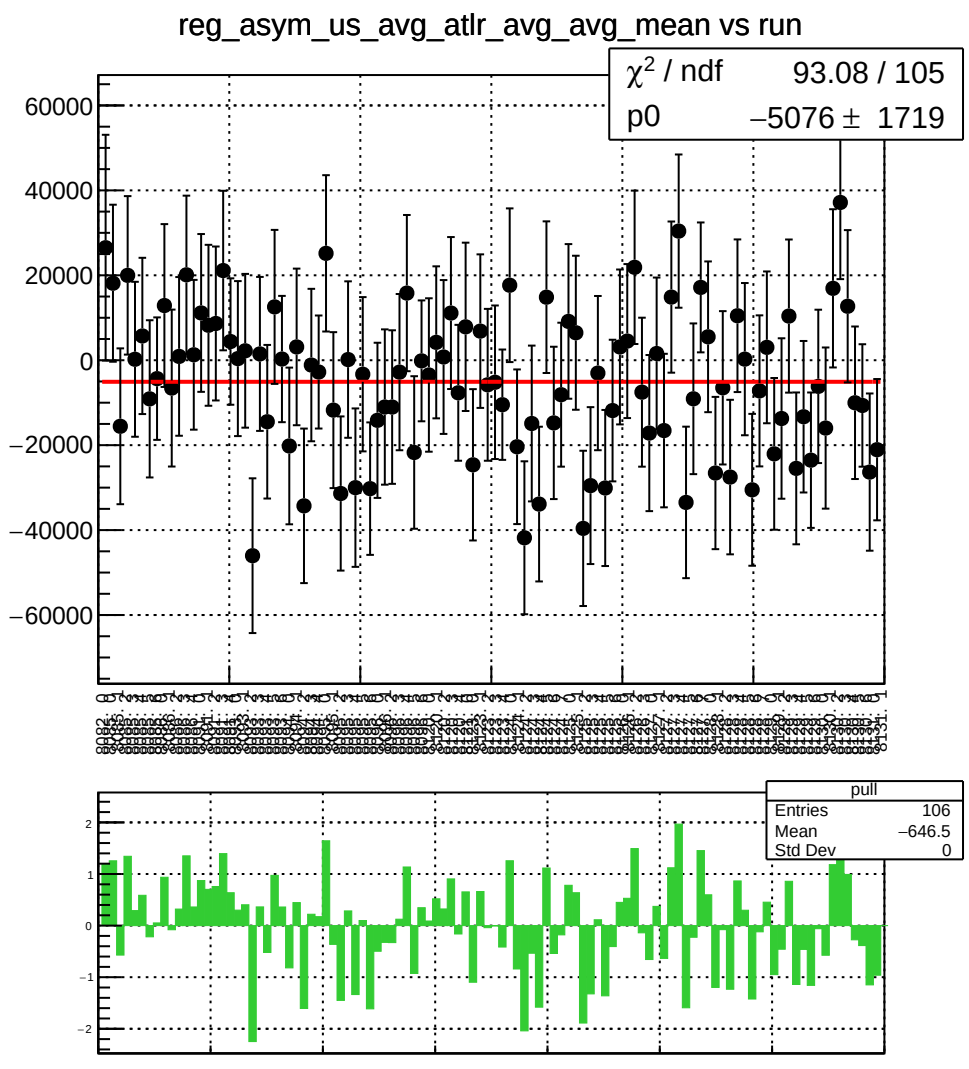

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.941e+05 / 105
p0 228 ± 0.1686
1600
1400
1200
1000
800
600
400
200

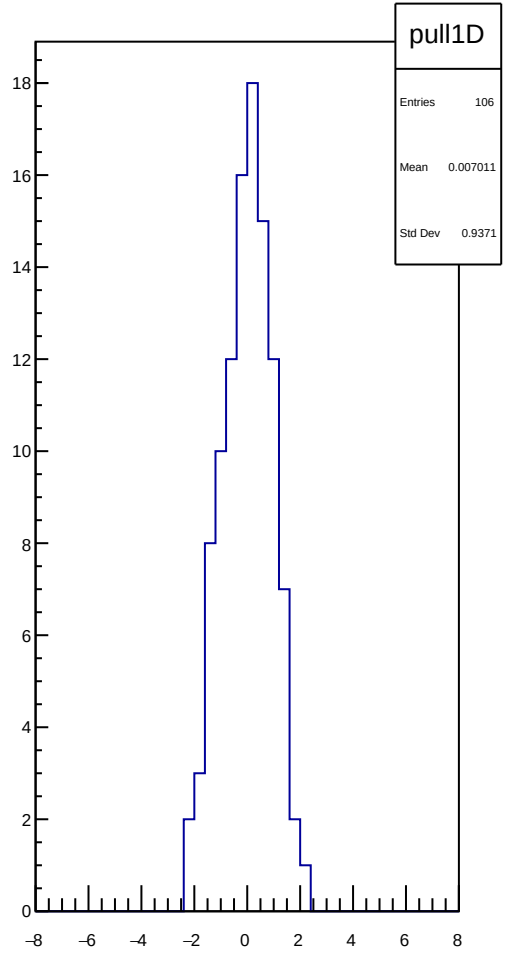

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.4 / 105
p0 −0.05213 ± 0.2384
pull
Entries 106
Mean 42.17
Std Dev 0
pull1D
Entries 106
Mean −0.03707
Std Dev 1.001

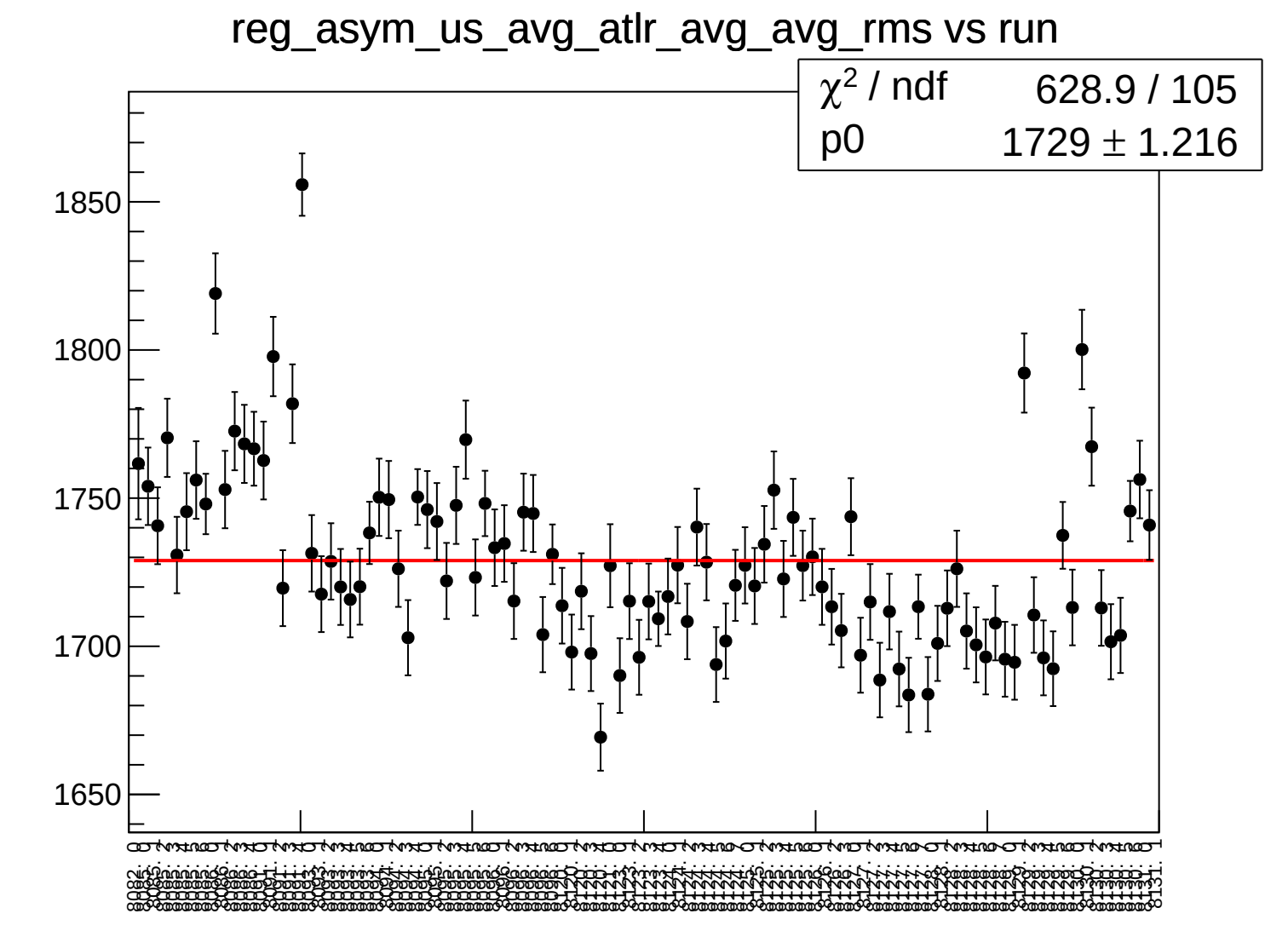

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.941e+05 / 105
p0 228 ± 0.1686
1600
1400
1200
1000
800
600
400
200

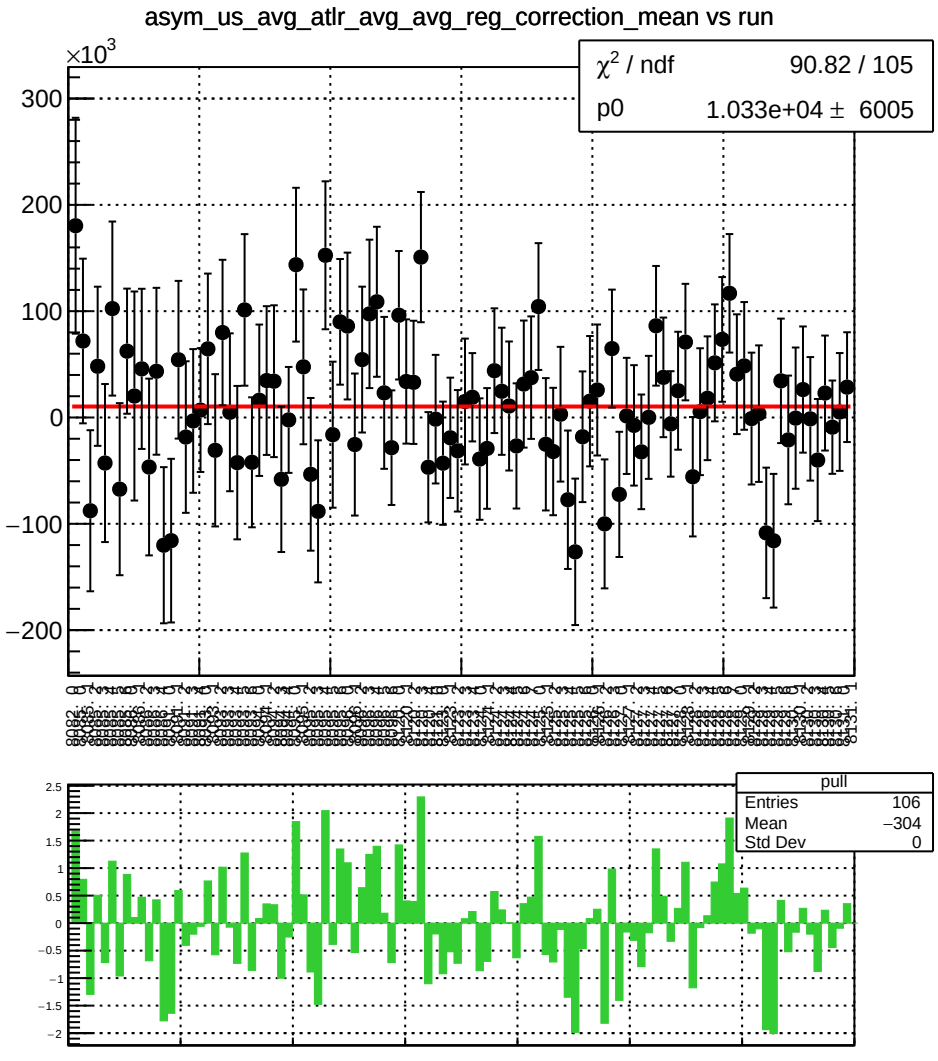

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 82.74 / 105
p0 −2.198e−13 ± 6.79e−13
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
pull
Entries 106
Mean 58.16
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 106
Mean −0.02025
Std Dev 0.8833
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

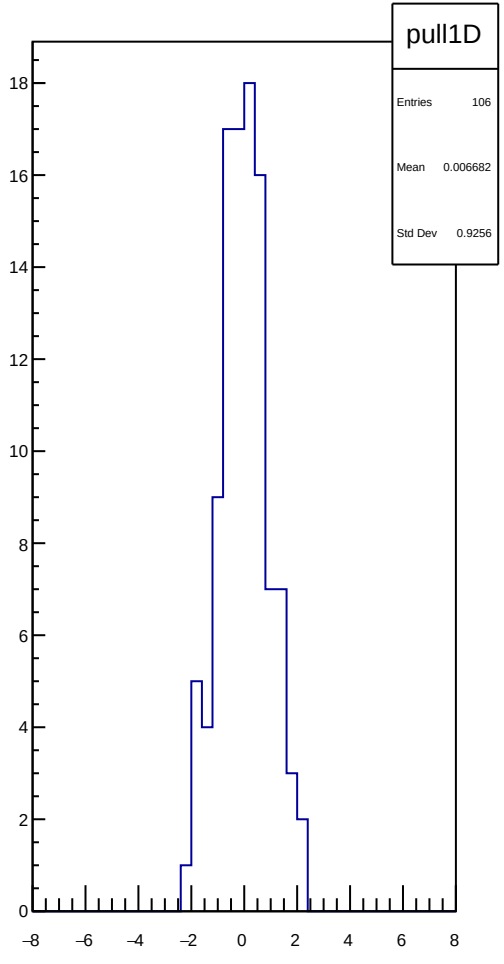

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.796e+05 / 105
p0 5.768e−10 ± 4.801e−13
7
6
5
4
3
2
1

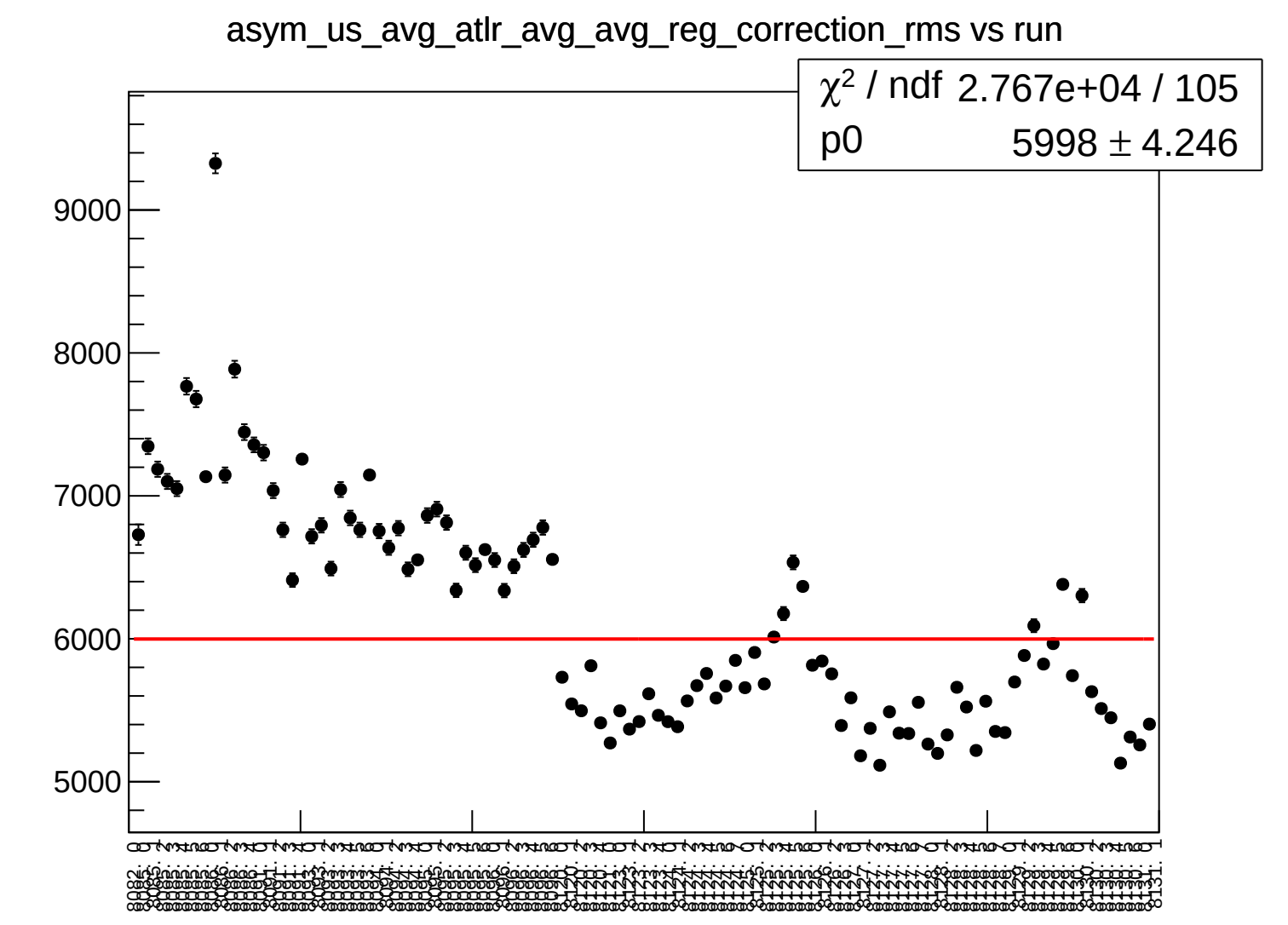

reg_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 93.08 / 105
p0 −5076 ± 1719
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean −646.5
Std Dev 0
2
1
0
−1
−2

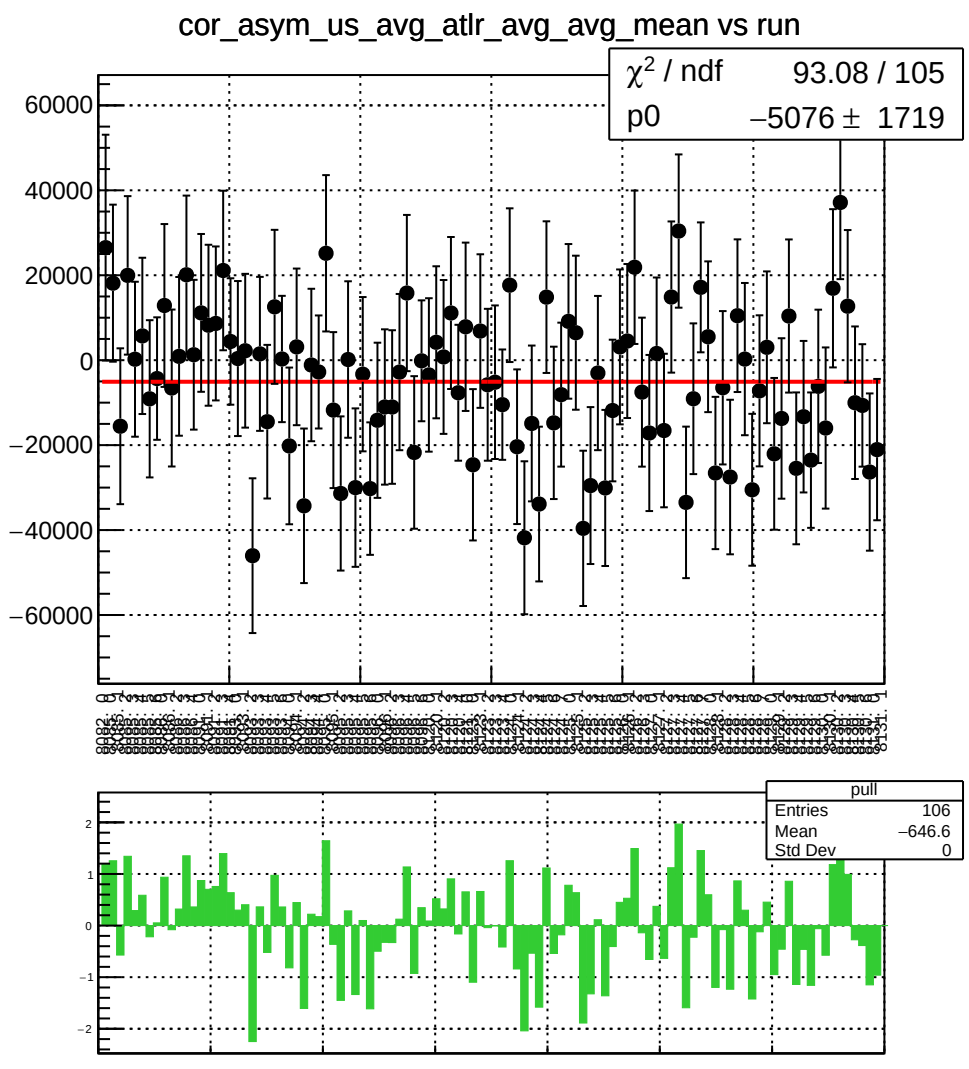

pull1D
Entries 106
Mean 0.007011
Std Dev 0.9371
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

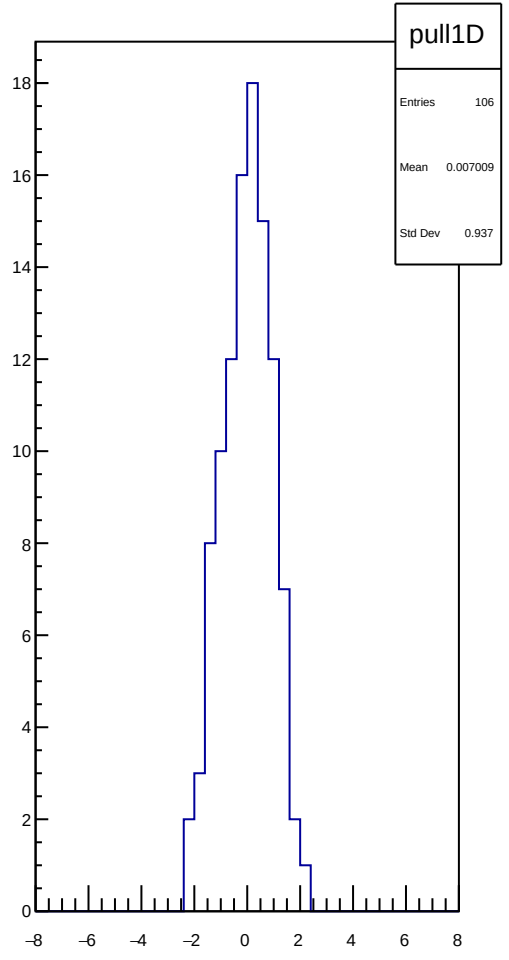

reg_asym_us_avg_atlr_avg_avg_rms vs run
$\chi^2$ / ndf 628.9 / 105
p0 1729 ± 1.216
1850
1800
1750
1700
1650


asym_us_avg_atlr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 90.82 / 105
p0 1.033e+04 ± 6005
300
200
100
0
−100
−200
pull
Entries 106
Mean −304
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 106
Mean 0.006682
Std Dev 0.9256
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_correction_rms vs run
χ² / ndf 2.767e+04 / 105
p0 5998 ± 4.246
9000
8000
7000
6000
5000


cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 93.08 / 105
p0 −5076 ± 1719
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean −646.6
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 106
Mean 0.007009
Std Dev 0.937
18
16
14
12
10
8
6
4
2
0
−8
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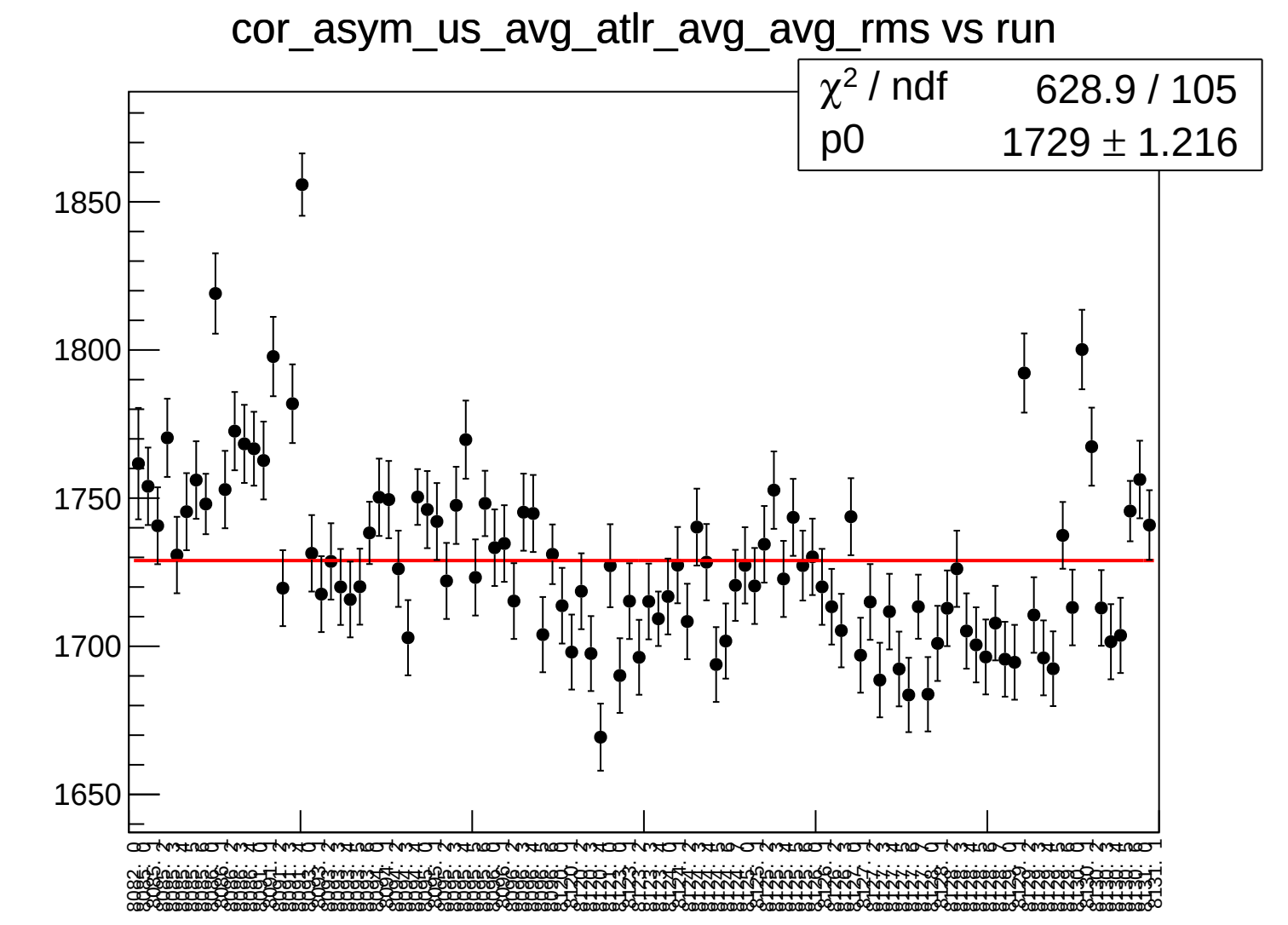
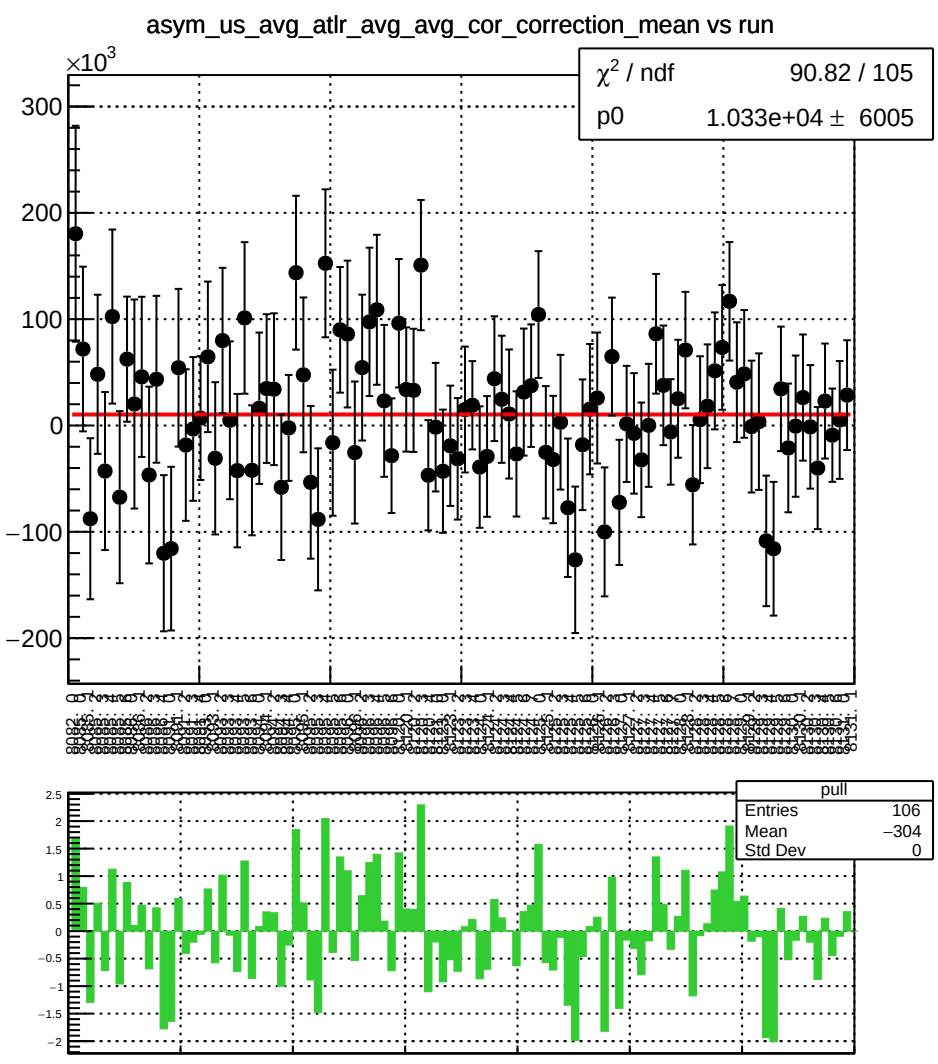
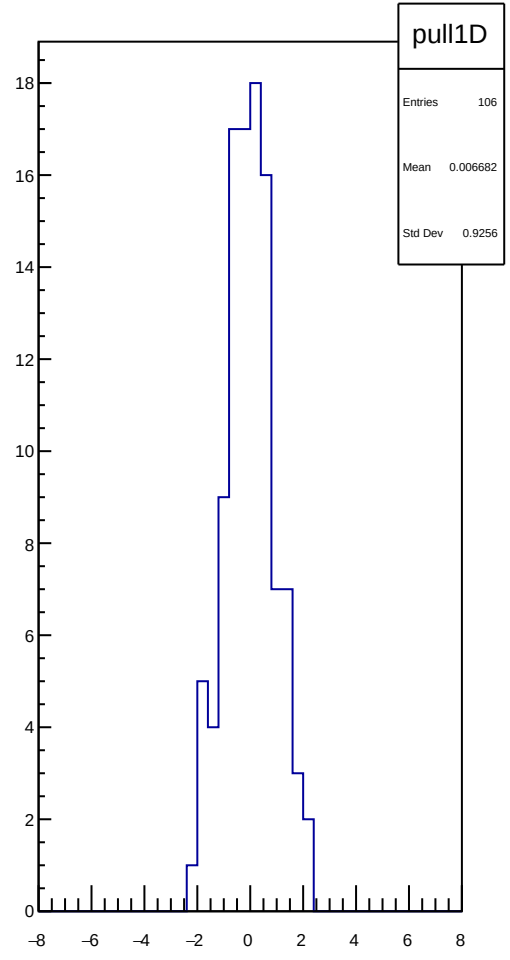
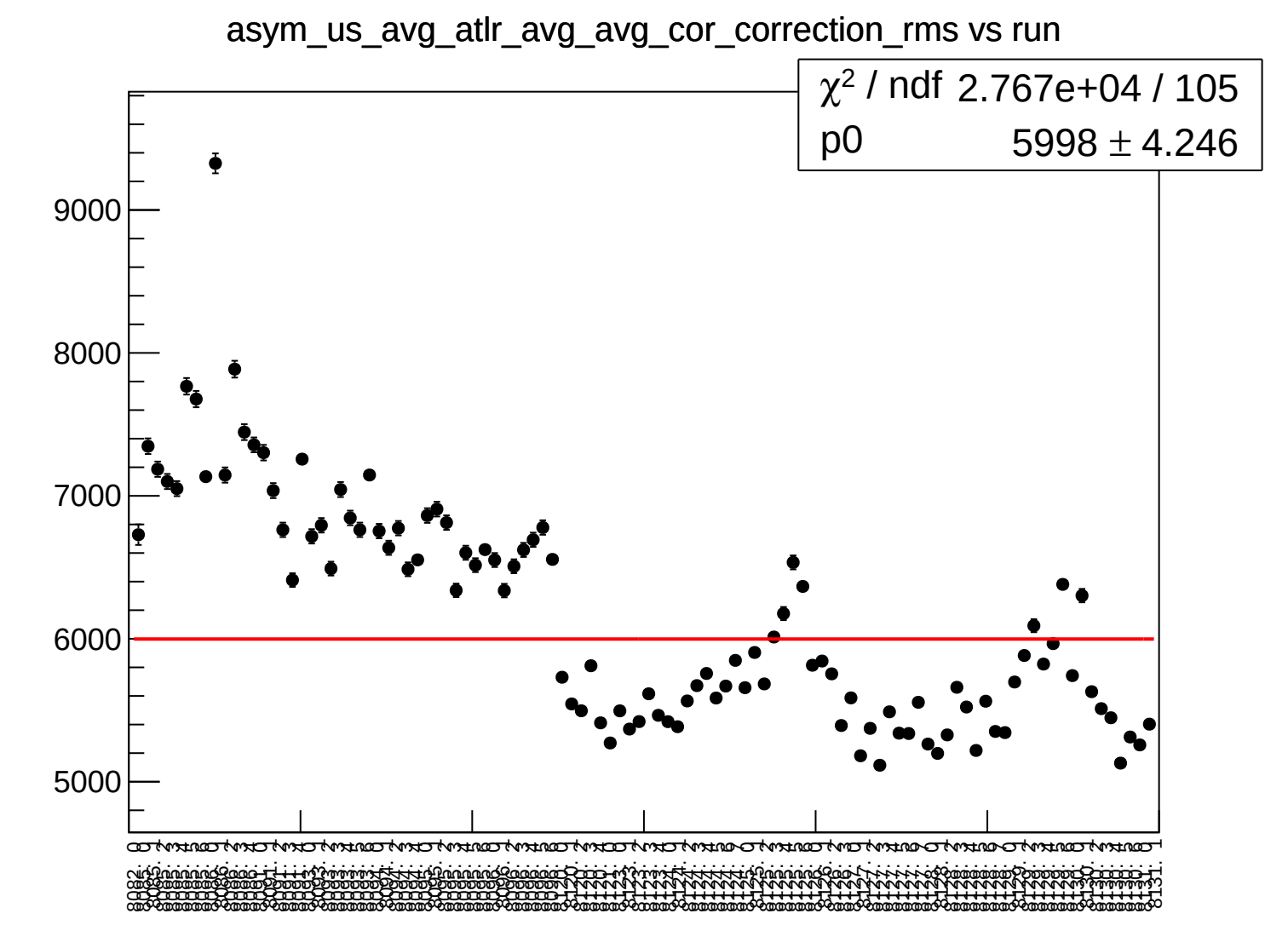
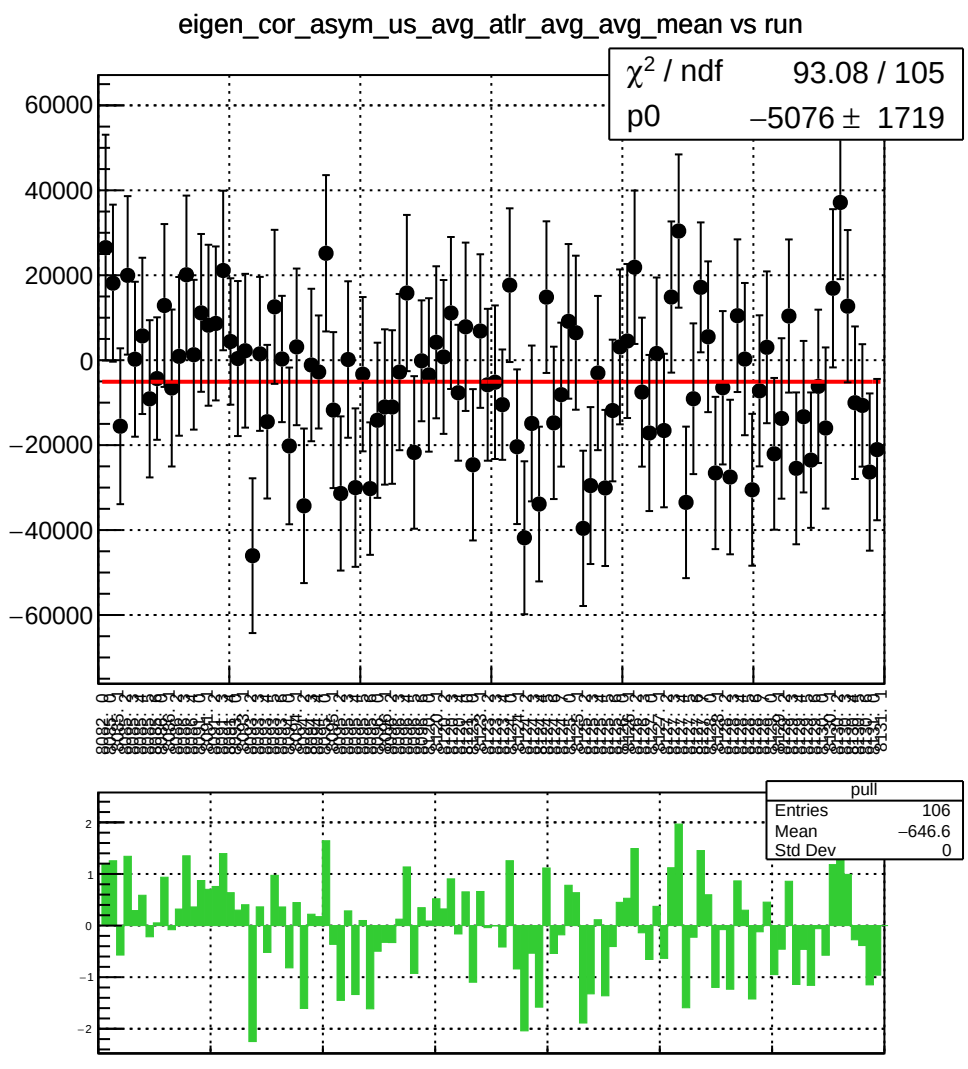
−4
−2
0
2
4
6
8

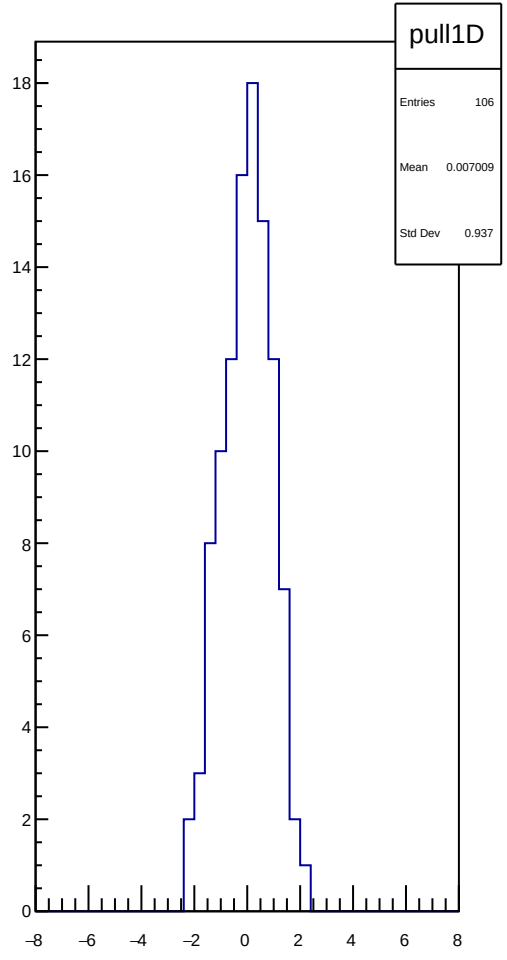

cor_asym_us_avg_atlr_avg_avg_rms vs run
$\chi^2$ / ndf 628.9 / 105
p0 1729 ± 1.216
1850
1800
1750
1700
1650


asym_us_avg_atlr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 90.82 / 105
p0 1.033e+04 ± 6005
300
200
100
0
−100
−200
pull
Entries 106
Mean −304
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 106
Mean 0.006682
Std Dev 0.9256
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_cor_correction_rms vs run
χ² / ndf 2.767e+04 / 105
p0 5998 ± 4.246
9000
8000
7000
6000
5000


eigen_cor_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 93.08 / 105
p0 −5076 ± 1719
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean −646.6
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 106
Mean 0.007009
Std Dev 0.937
18
16
14
12
10
8
6
4
2
0
−8
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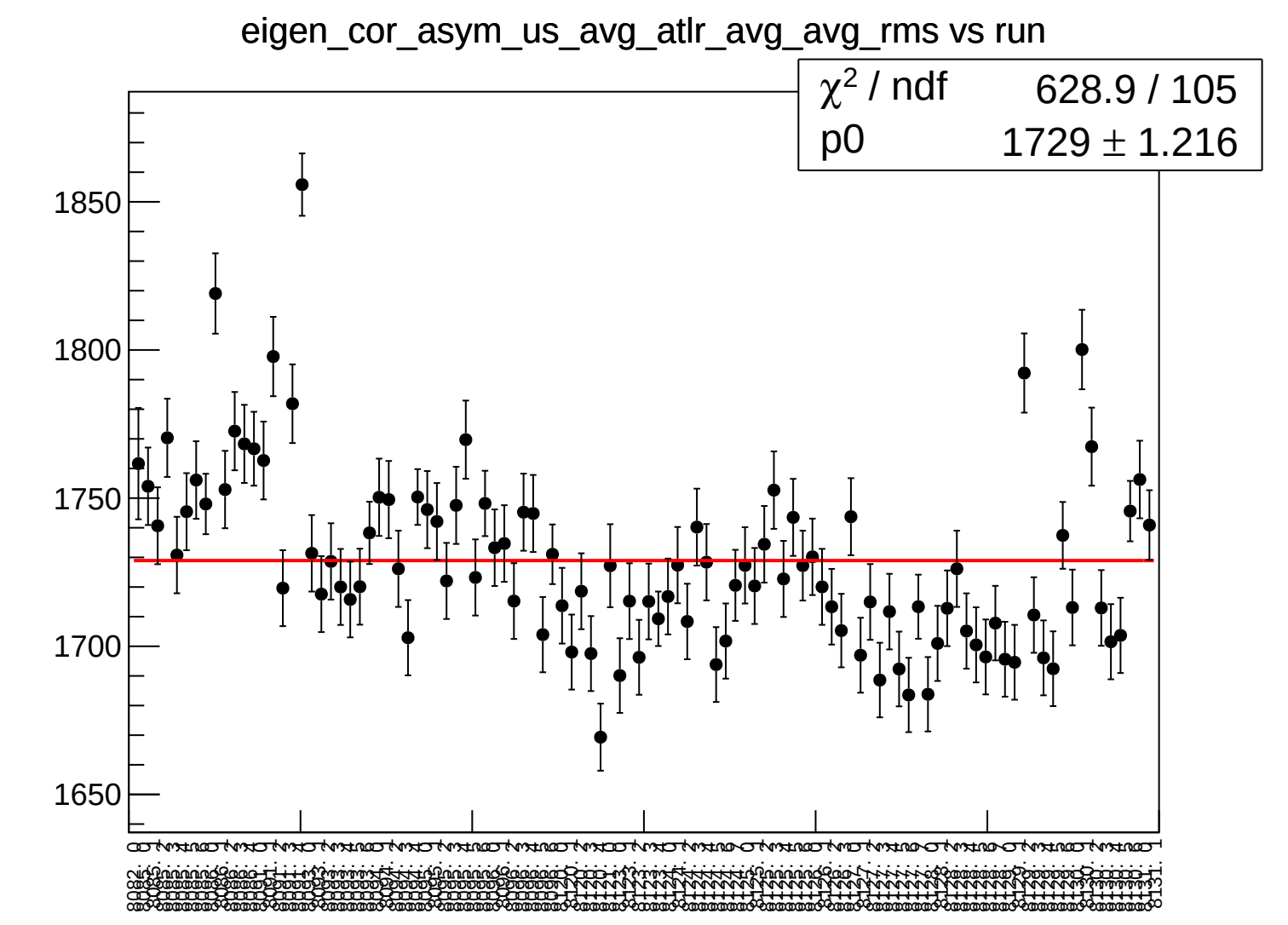
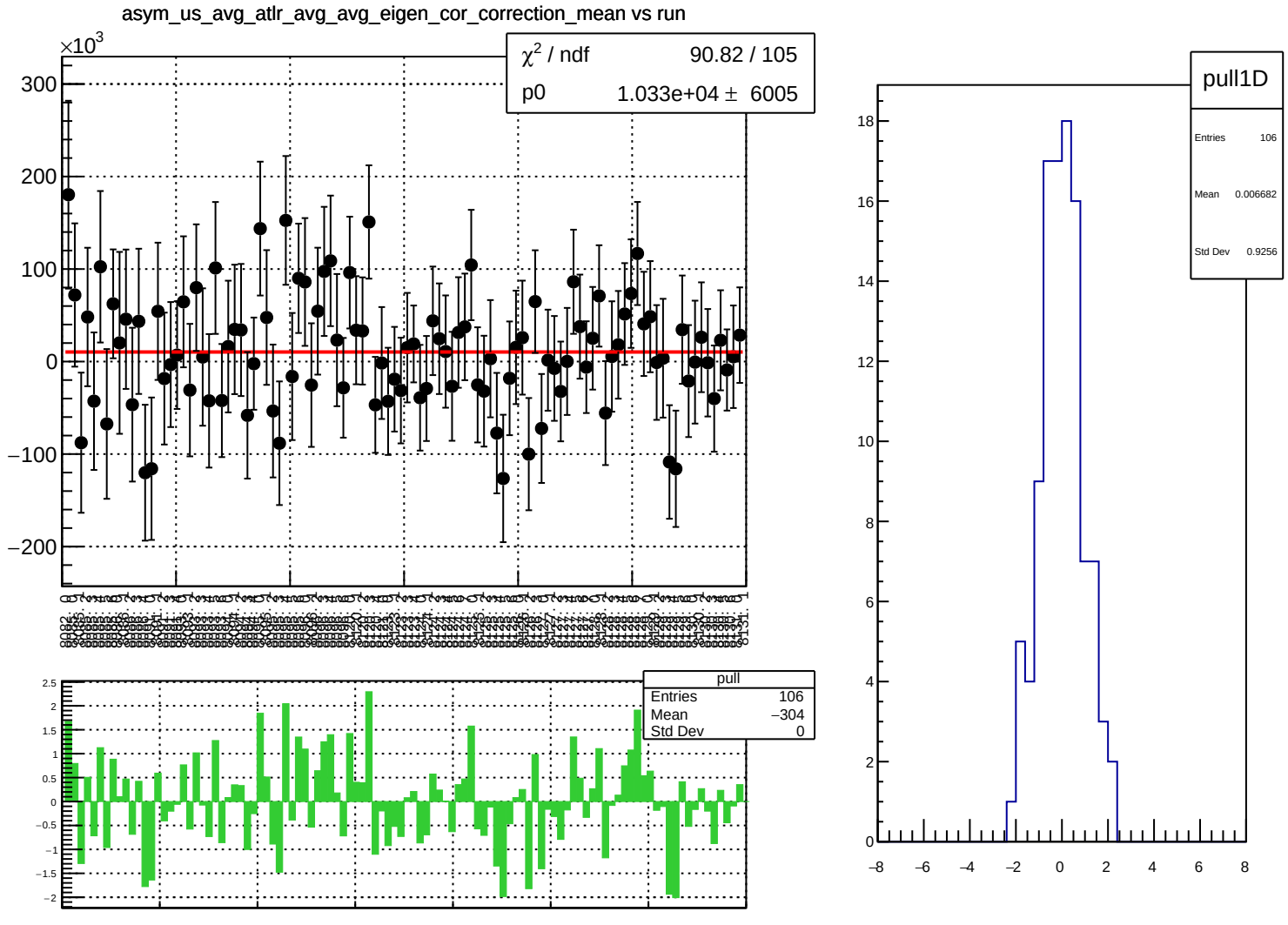
2
4
6
8


eigen_cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 628.9 / 105
p0 1729 ± 1.216
1850
1800
1750
1700
1650


asym_us_avg_atlr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 90.82 / 105
p0 1.033e+04 ± 6005
300
200
100
0
−100
−200
pull
Entries 106
Mean −304
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 106
Mean 0.006682
Std Dev 0.9256
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
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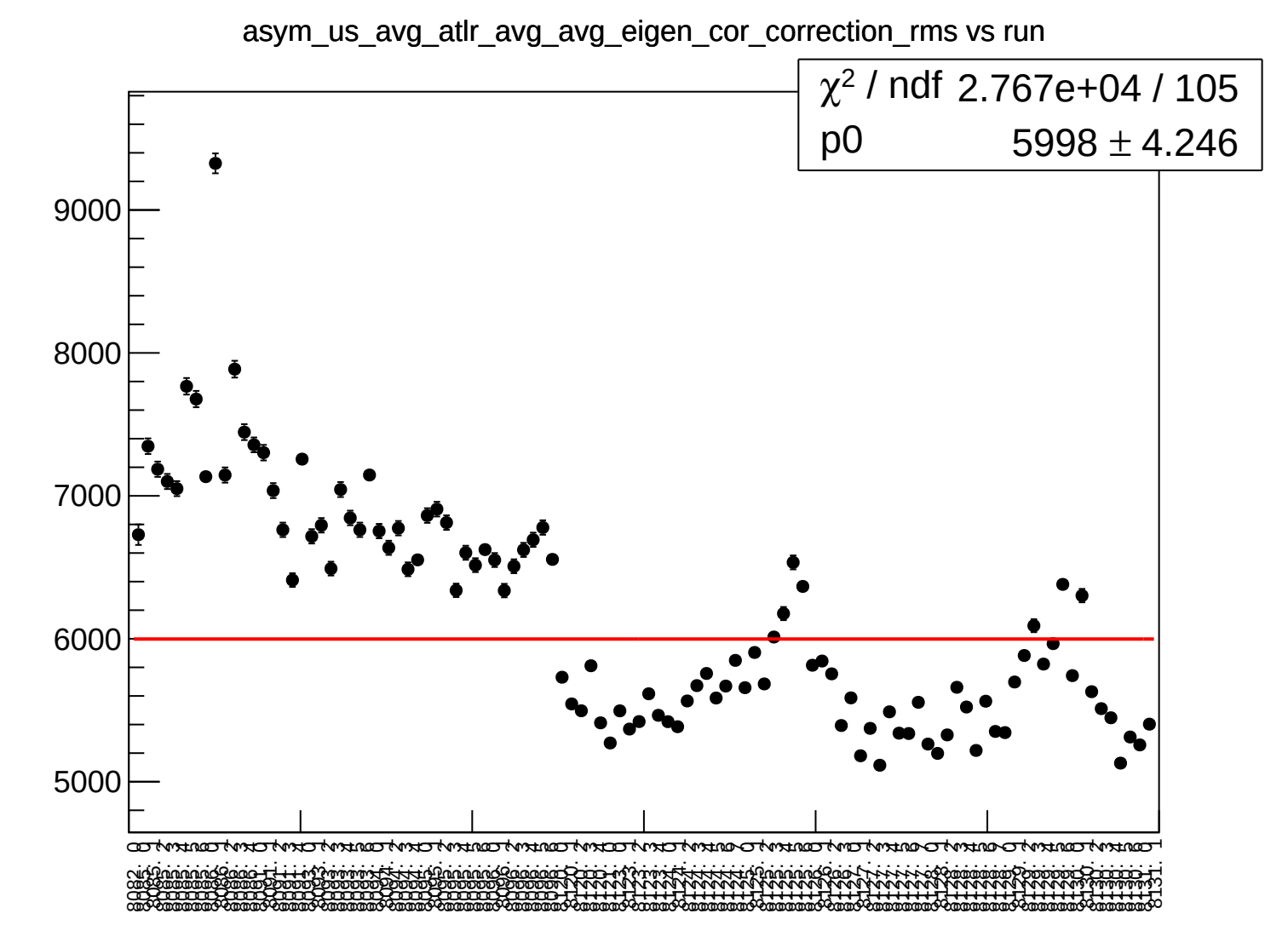
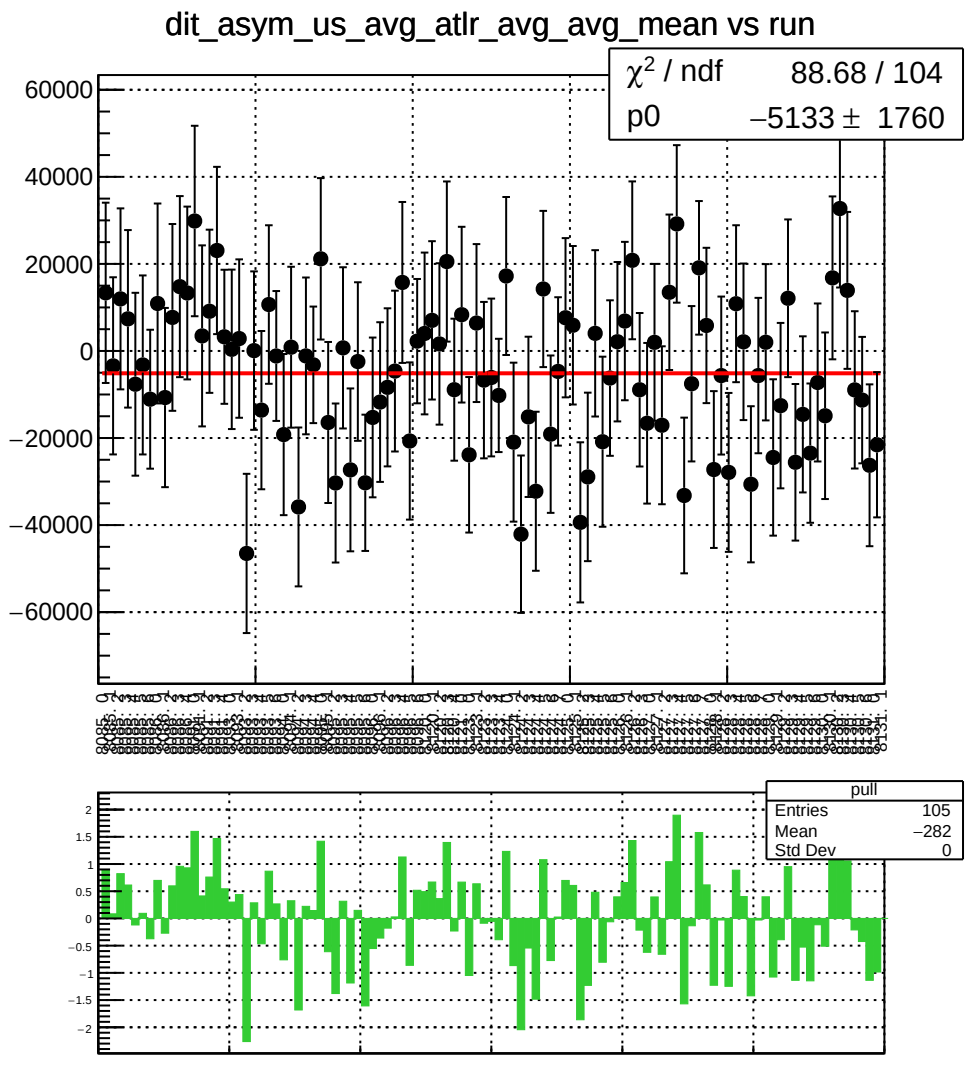
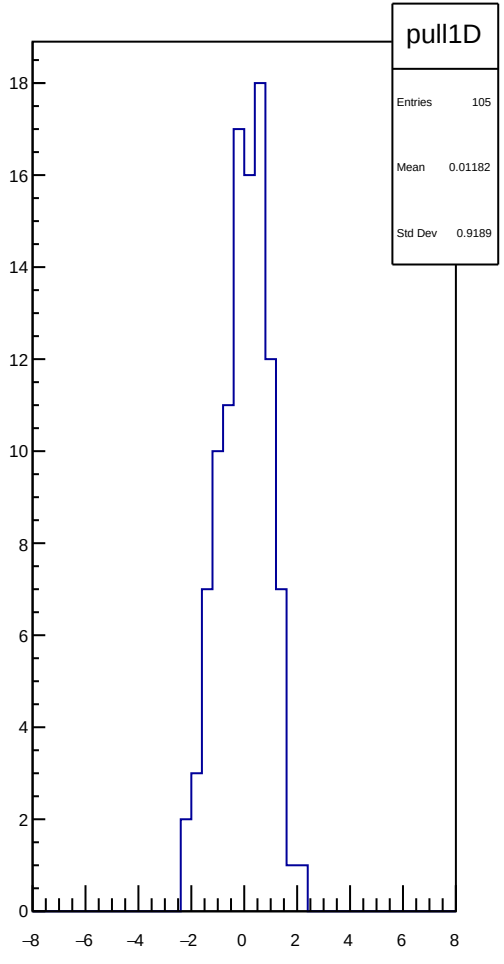
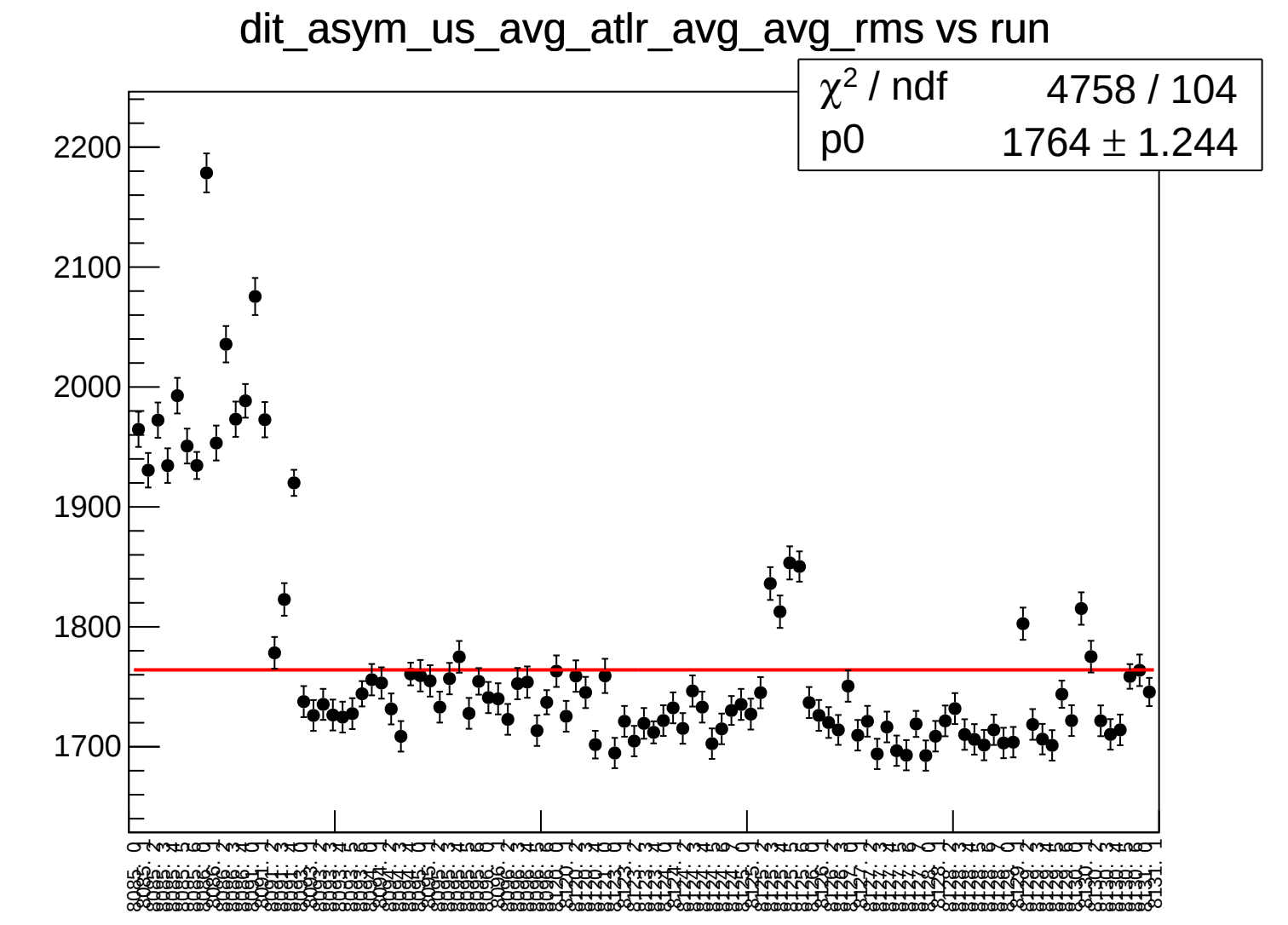
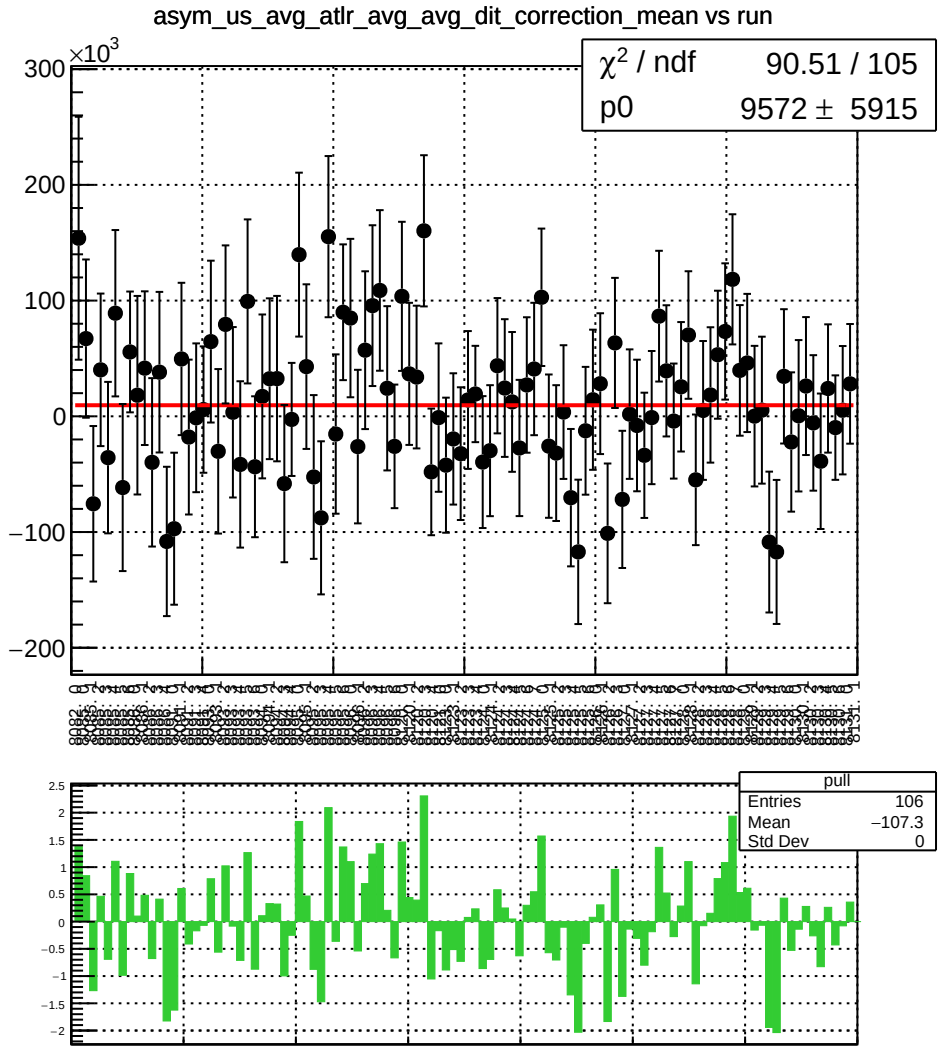
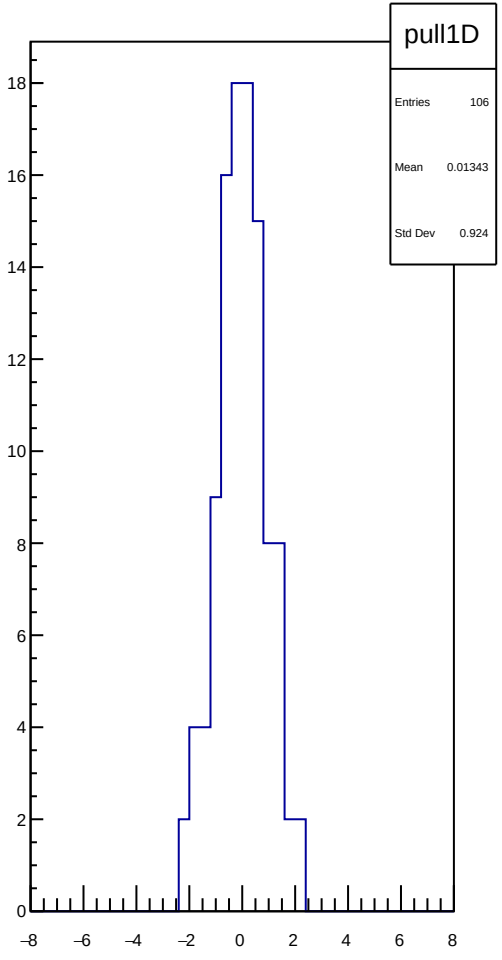

asym_us_avg_atlr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.767e+04 / 105
p0 5998 ± 4.246
9000
8000
7000
6000
5000

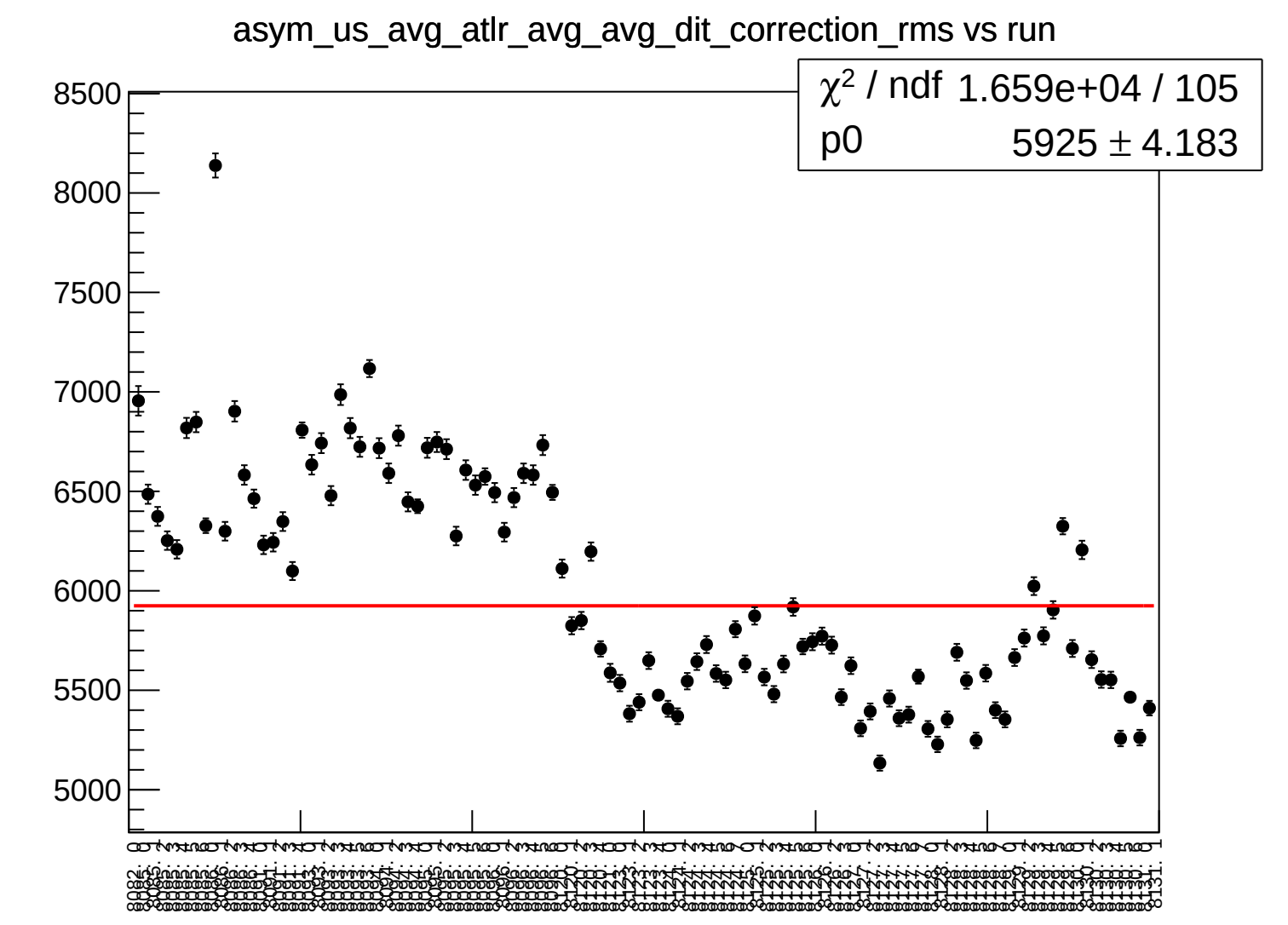

dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 88.68 / 104
p0 −5133 ± 1760
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean −282
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

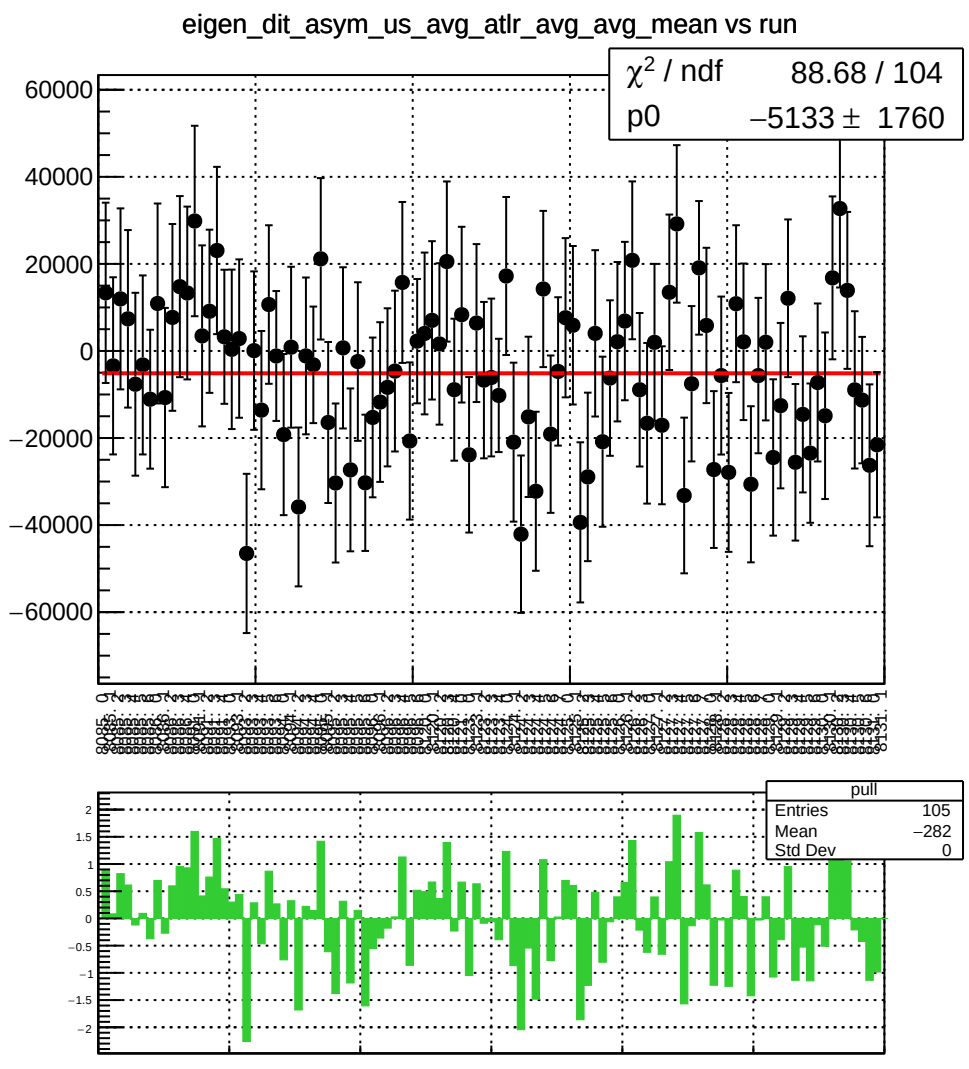

pull1D
Entries 105
Mean 0.01182
Std Dev 0.9189
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

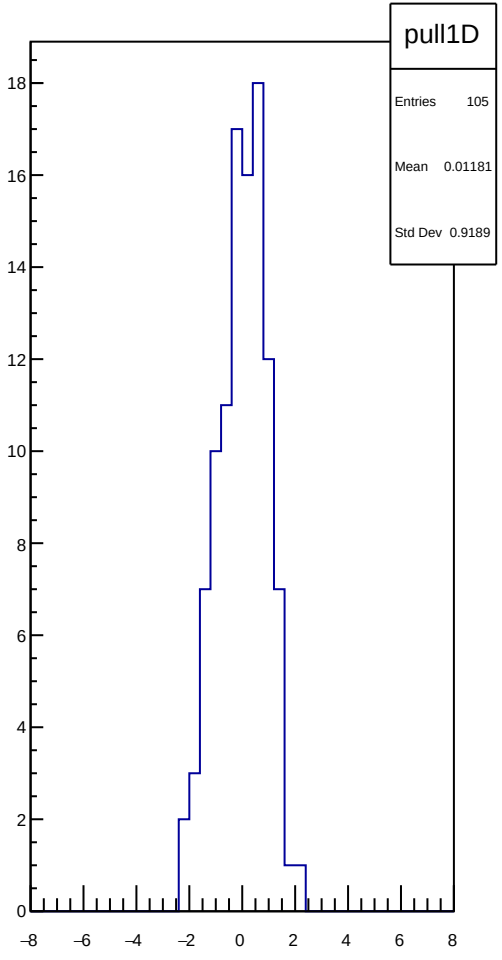

dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 4758 / 104
p0 1764 ± 1.244
2200
2100
2000
1900
1800
1700

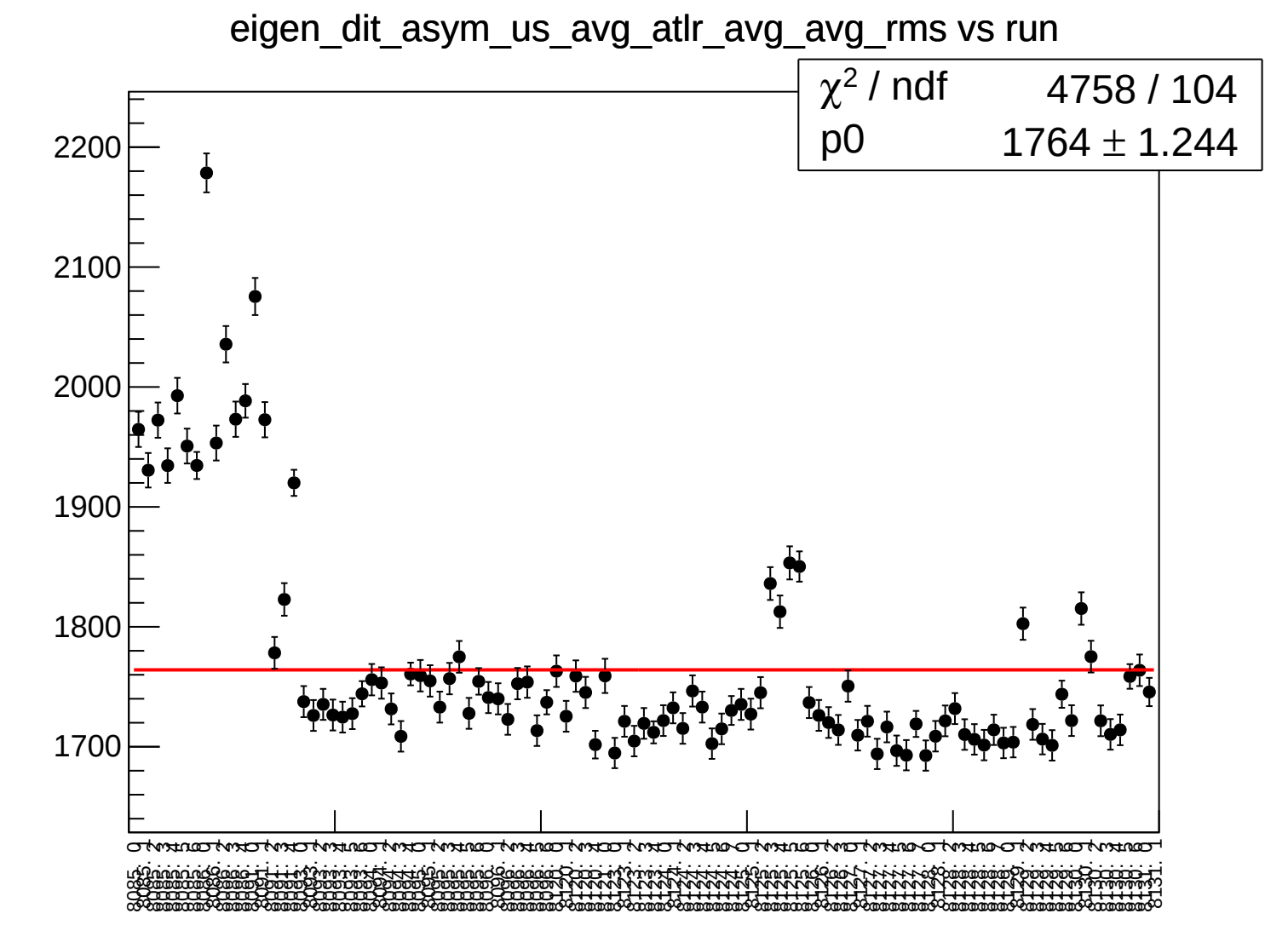

asym_us_avg_atlr_avg_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 90.51 / 105
p0 9572 ± 5915
pull
Entries 106
Mean −107.3
Std Dev 0

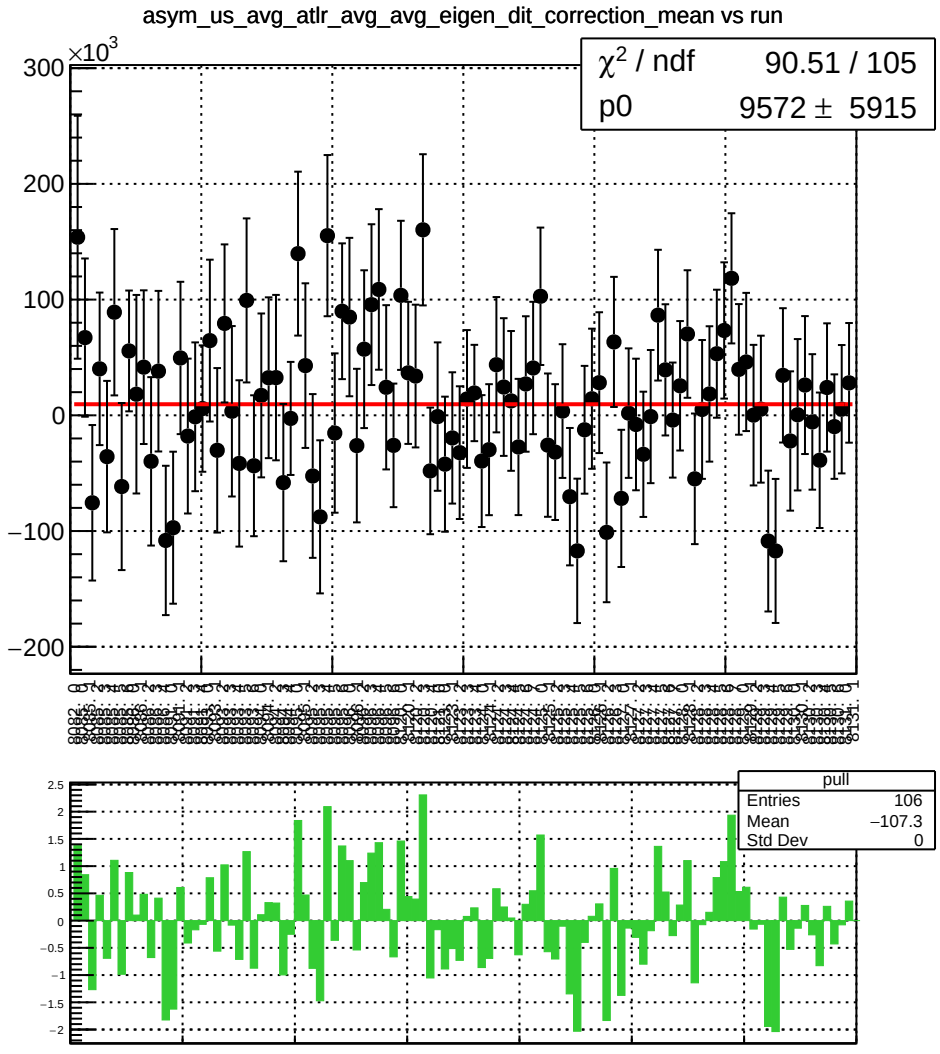

pull1D
Entries 106
Mean 0.01343
Std Dev 0.924

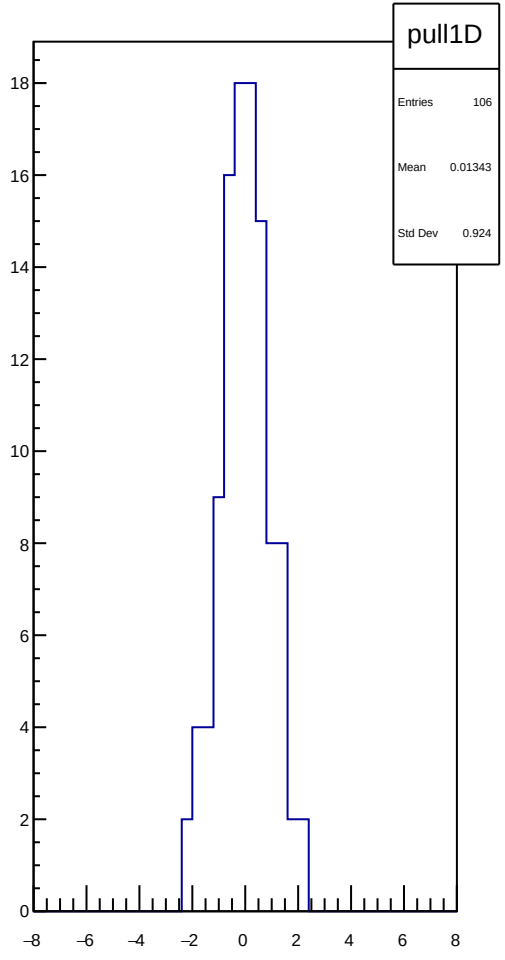

asym_us_avg_atlr_avg_avg_dit_correction_rms vs run
χ² / ndf 1.659e+04 / 105
p0 5925 ± 4.183
8500
8000
7500
7000
6500
6000
5500
5000

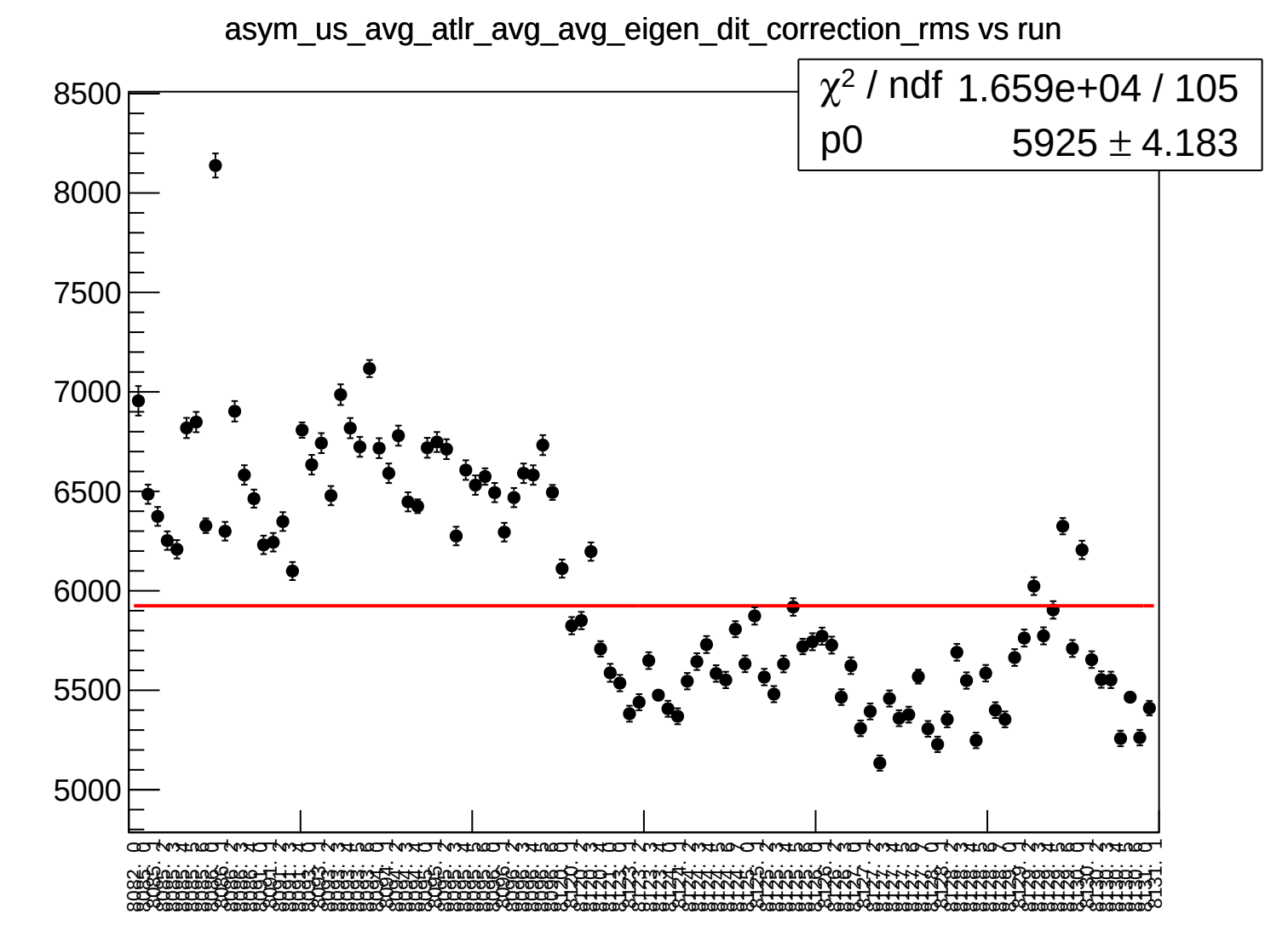

eigen_dit_asym_us_avg_atlr_avg_avg_mean vs run
χ² / ndf 88.68 / 104
p0 −5133 ± 1760
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean −282
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

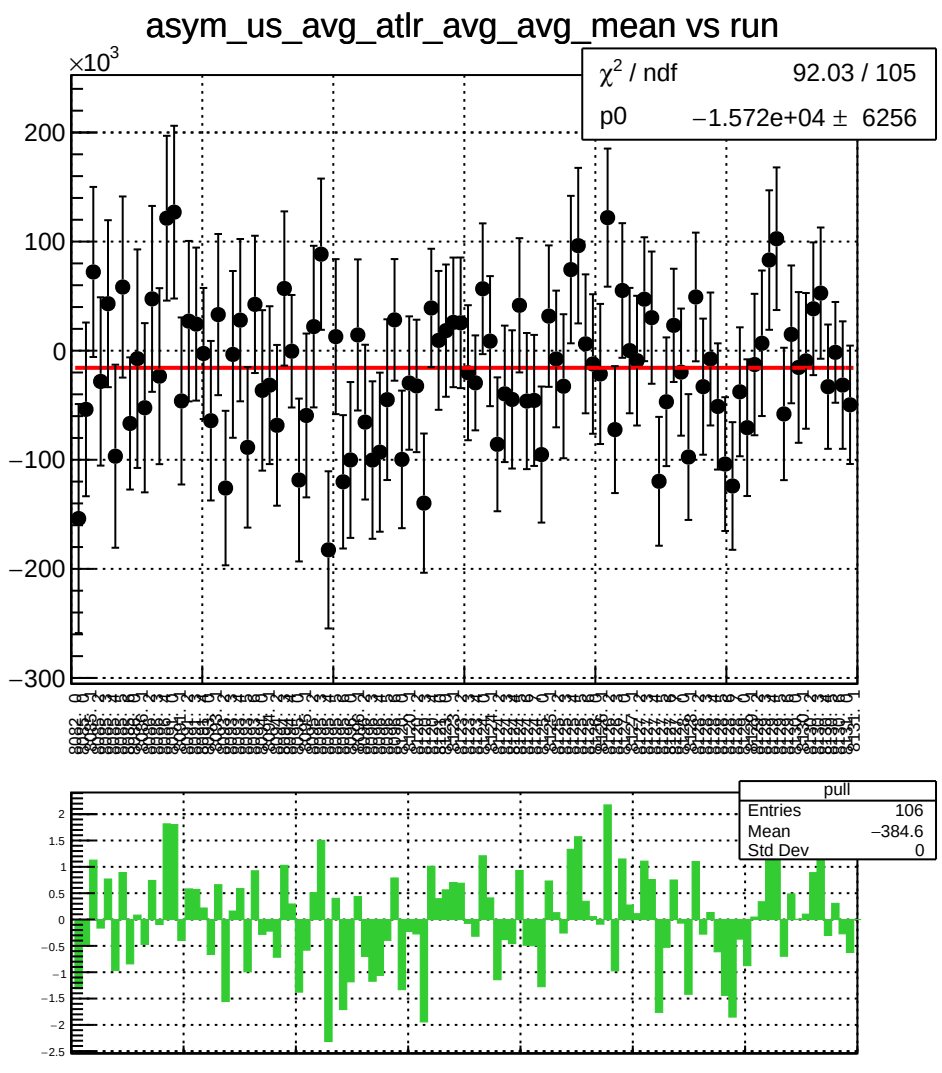

pull1D
Entries 105
Mean 0.01181
Std Dev 0.9189
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

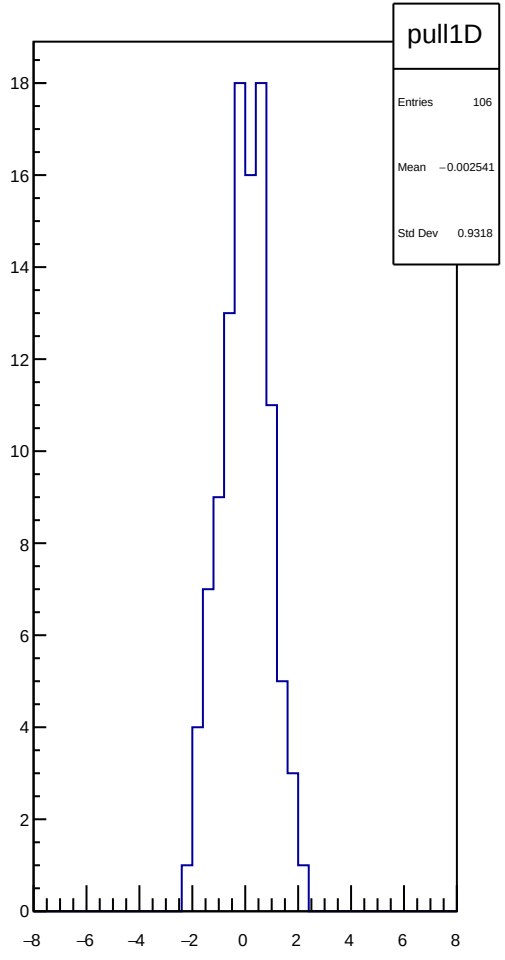

eigen_dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 4758 / 104
p0 1764 ± 1.244
2200
2100
2000
1900
1800
1700

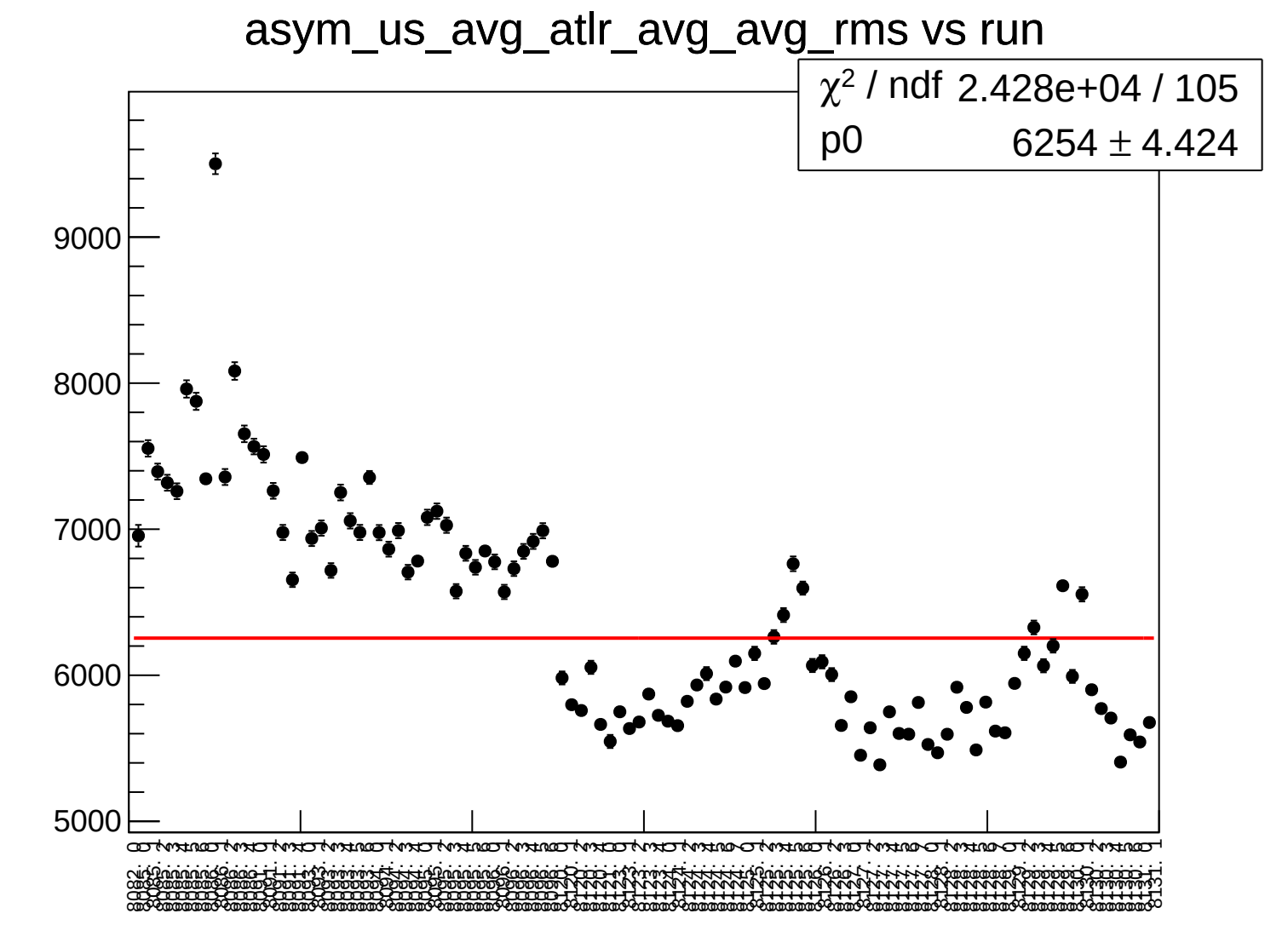

asym_us_avg_atlr_avg_avg_eigen_dit_correction_mean vs run
×10^3
300
200
100
0
−100
−200
χ² / ndf 90.51 / 105
p0 9572 ± 5915
pull
Entries 106
Mean −107.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

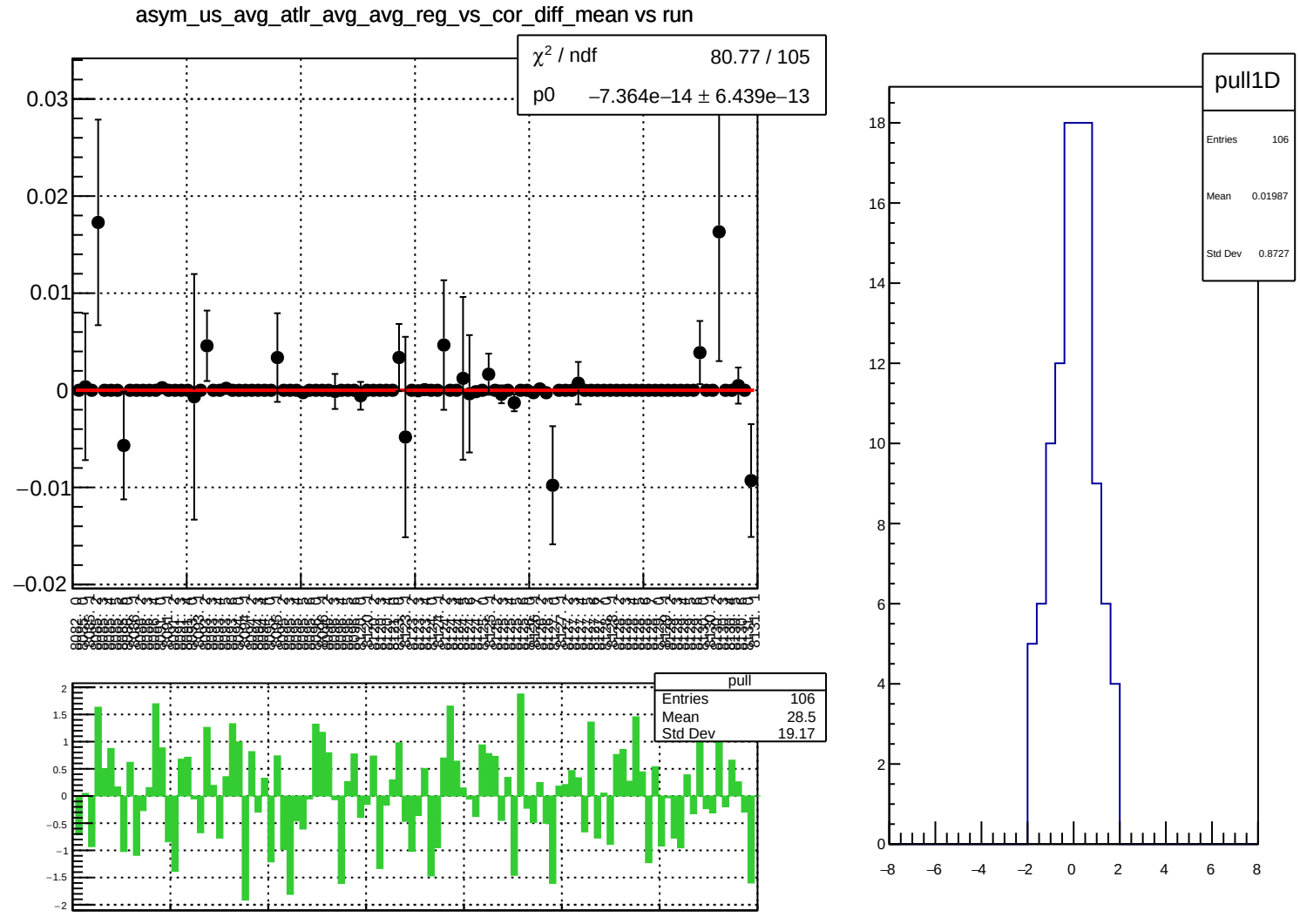

pull1D
Entries 106
Mean 0.01343
Std Dev 0.924
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

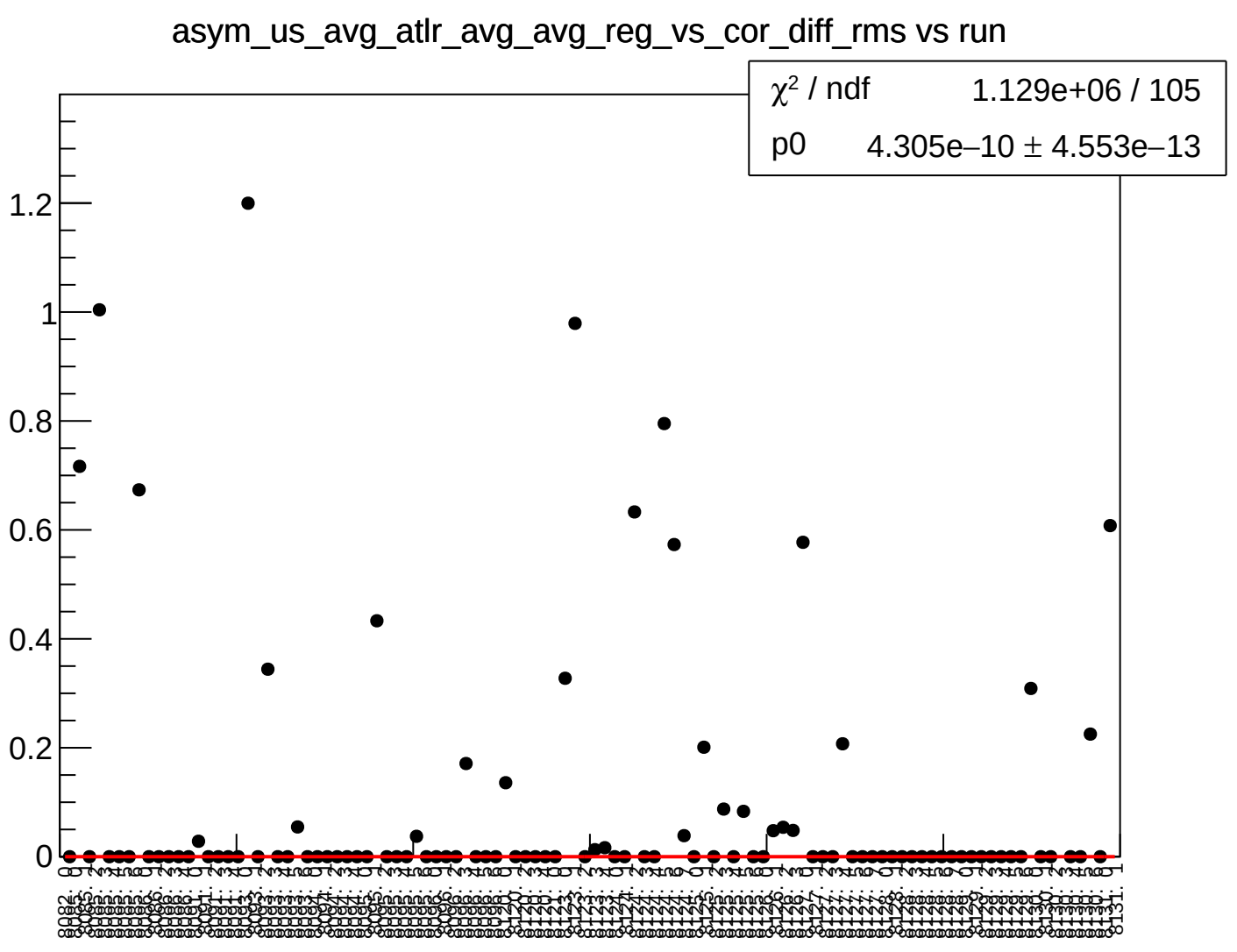

asym_us_avg_atlr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.659e+04 / 105
p0 5925 ± 4.183
8500
8000
7500
7000
6500
6000
5500
5000

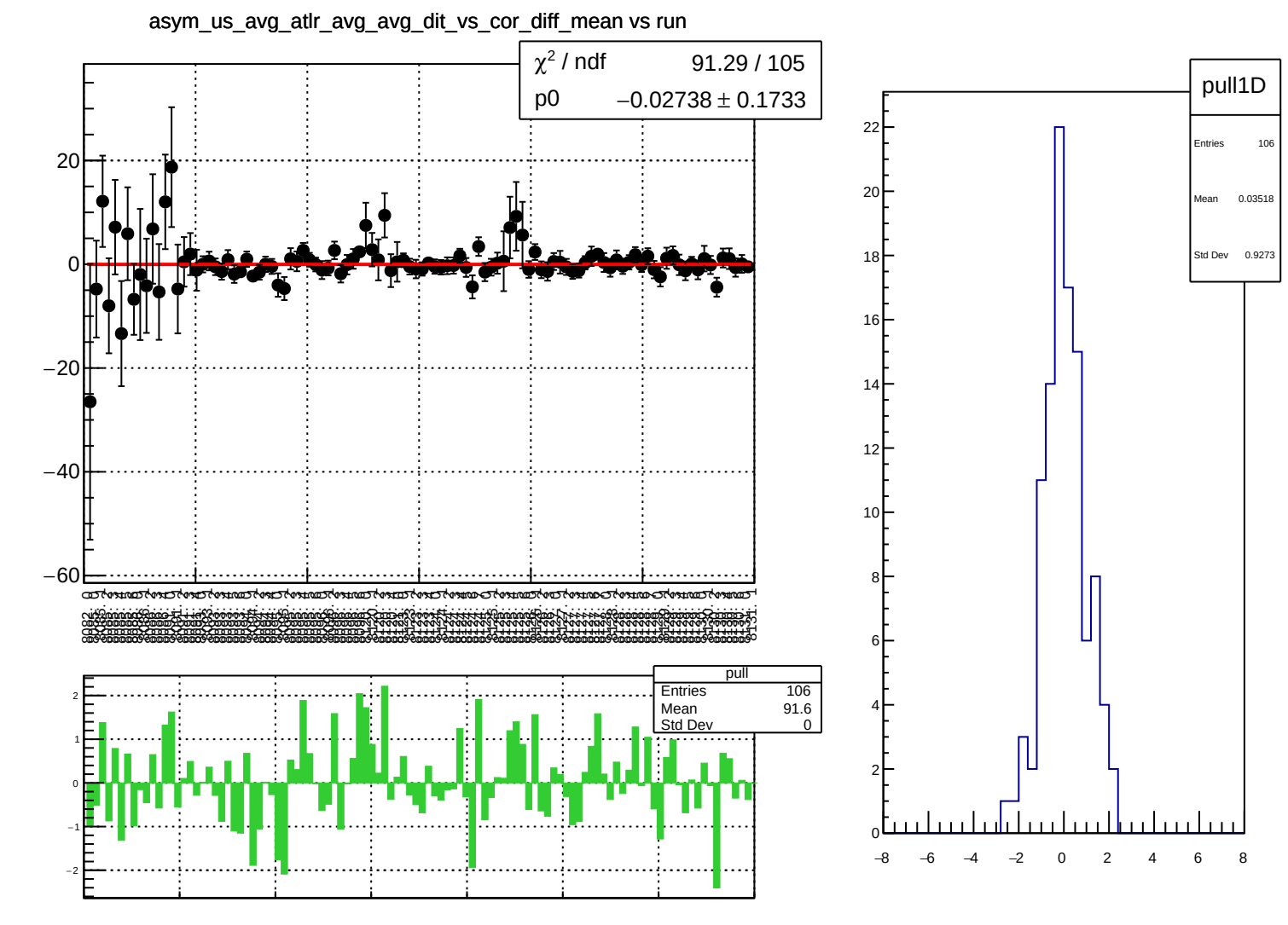

asym_us_avg_atlr_avg_avg_mean vs run
×10^3
χ² / ndf 92.03 / 105
p0 −1.572e+04 ± 6256
200
100
0
−100
−200
−300
pull
Entries 106
Mean −384.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

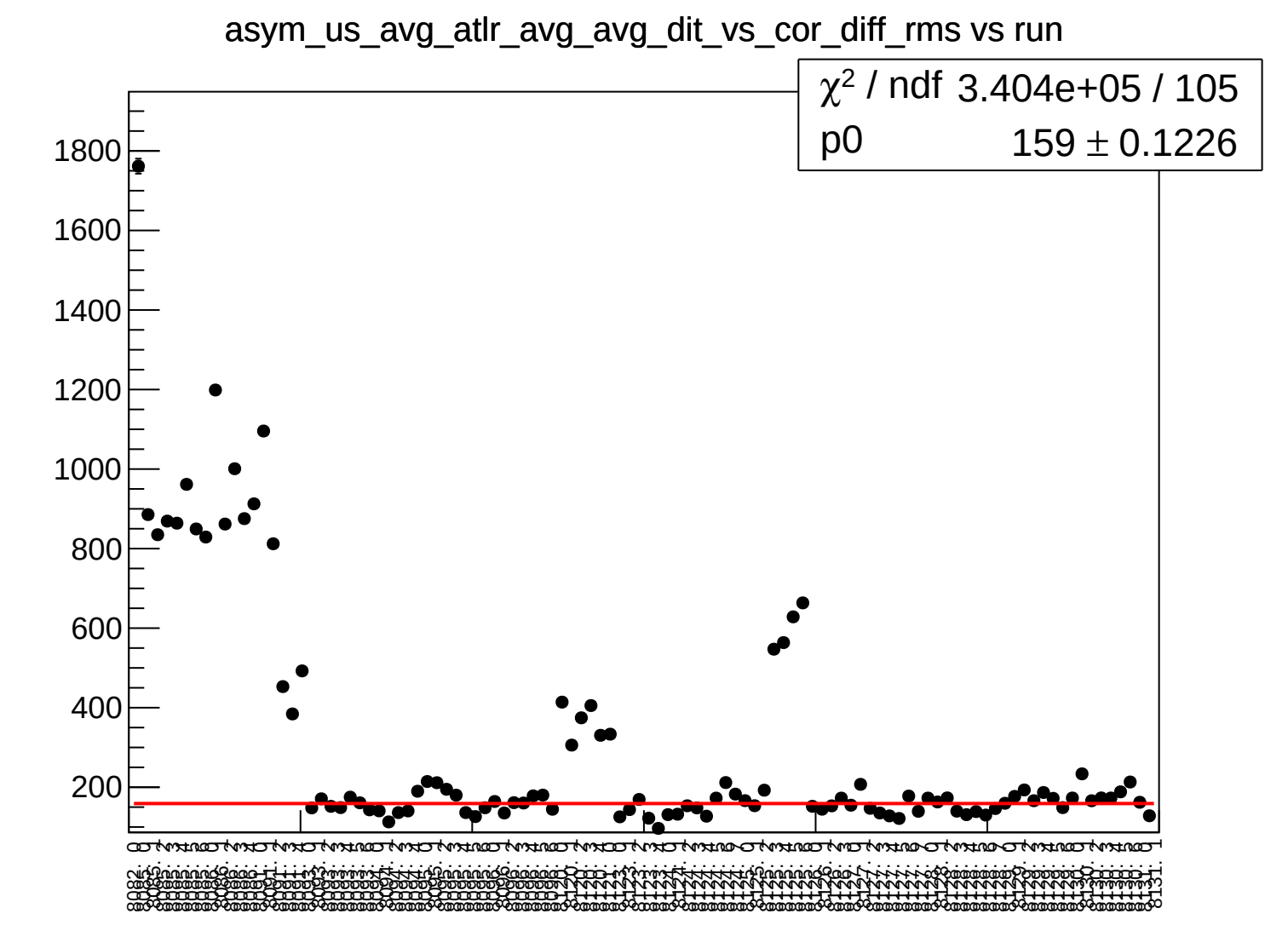

pull1D
Entries 106
Mean −0.002541
Std Dev 0.9318
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

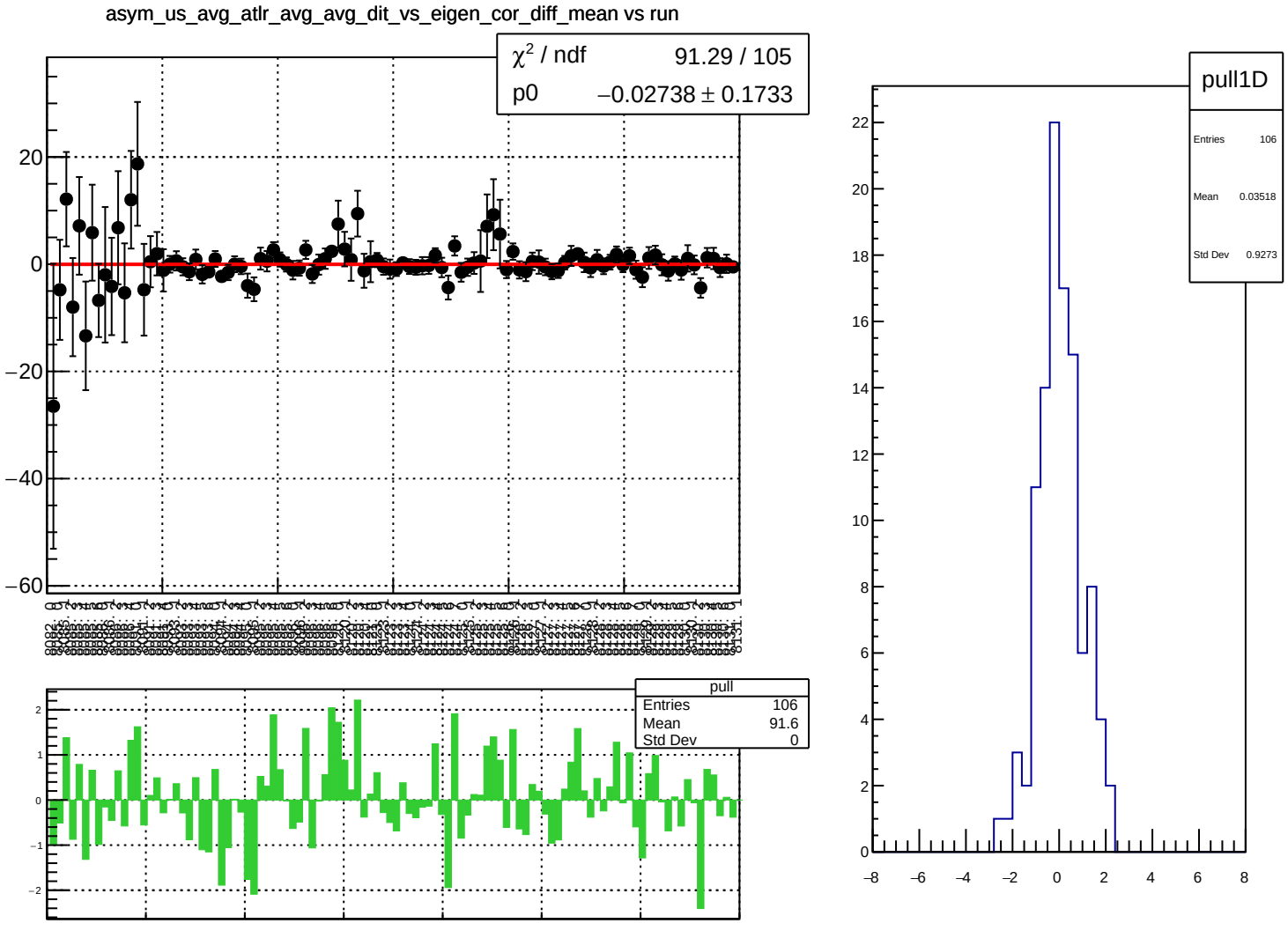

asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 2.428e+04 / 105
p0 6254 ± 4.424
9000
8000
7000
6000
5000

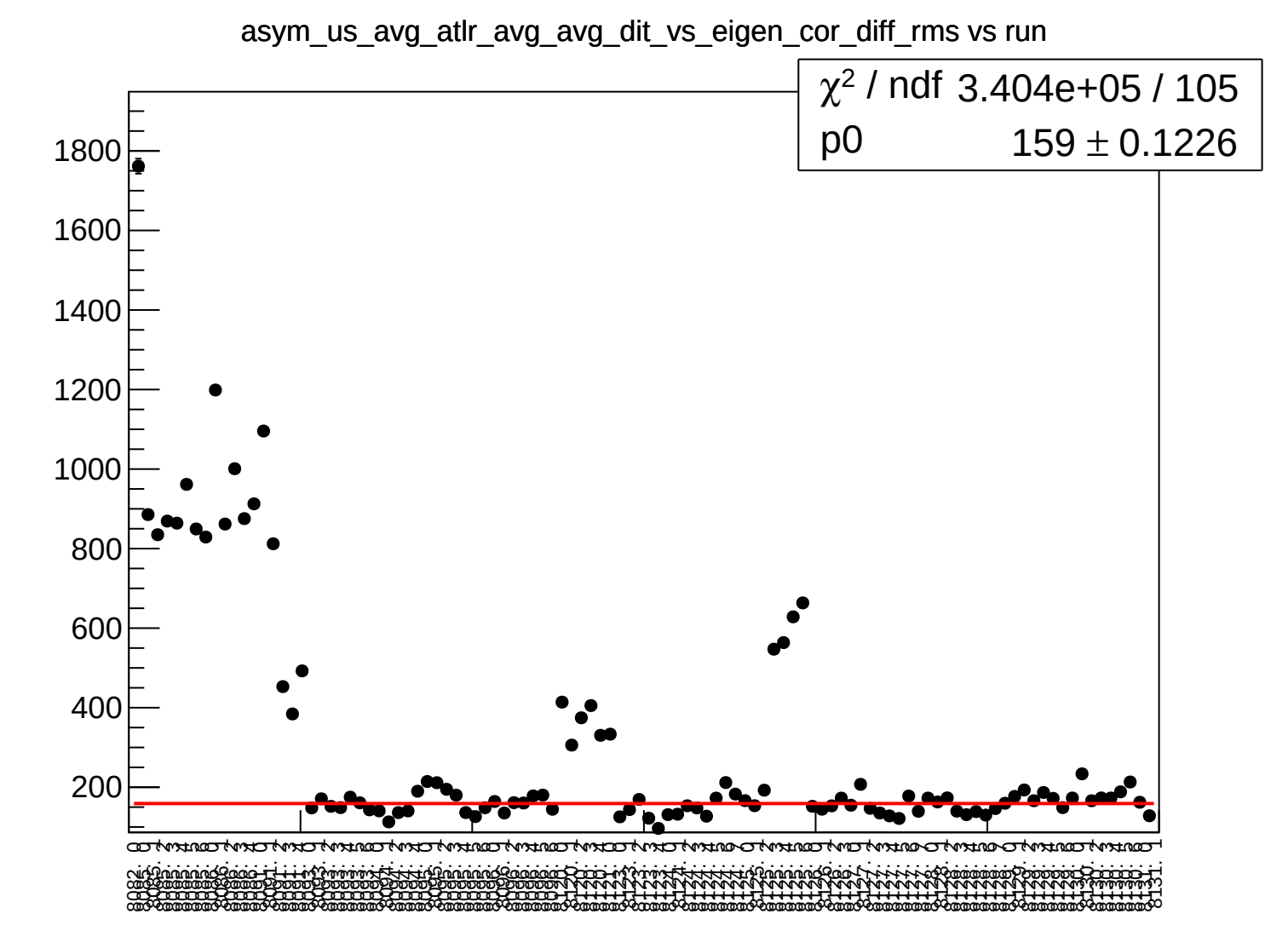

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 80.77 / 105
p0 −7.364e−14 ± 6.439e−13
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 106
Mean 28.5
Std Dev 19.17
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 106
Mean 0.01987
Std Dev 0.8727
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

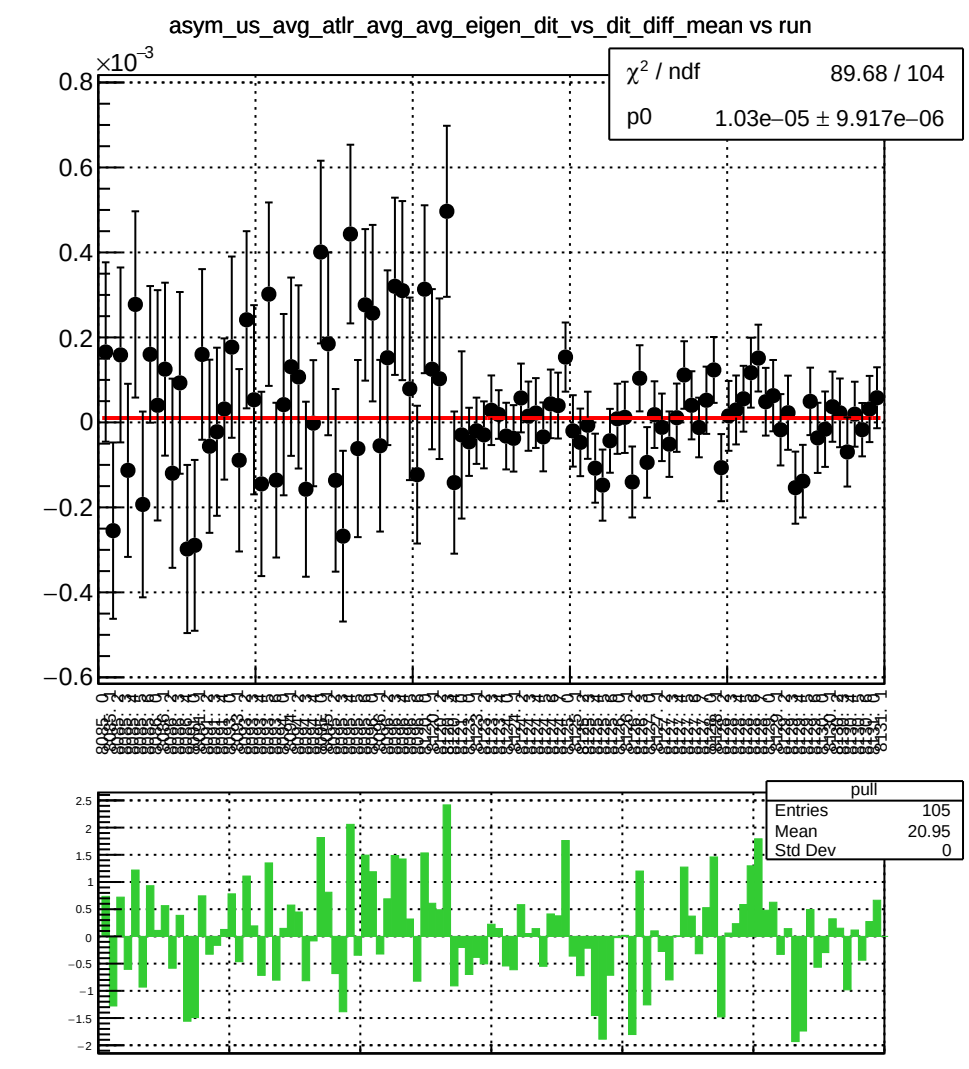

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.129e+06 / 105
p0 4.305e−10 ± 4.553e−13
1.2
1
0.8
0.6
0.4
0.2
0

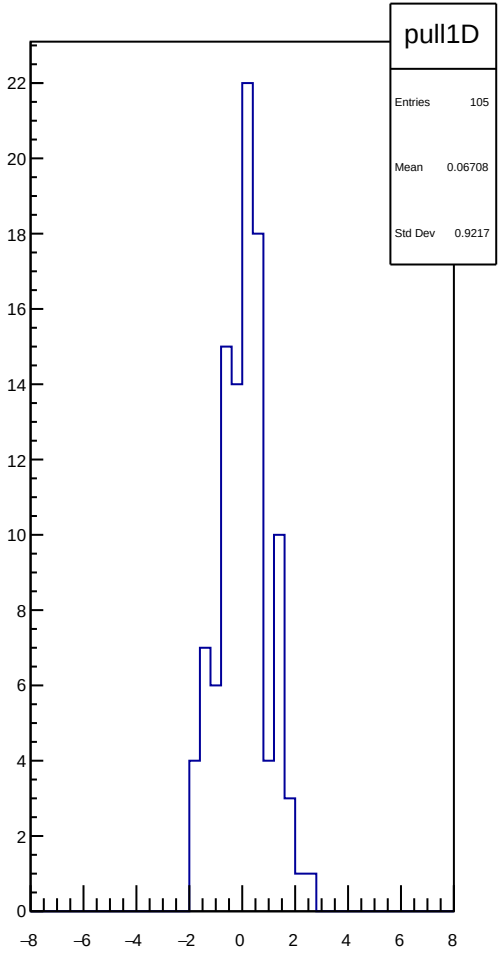

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 91.29 / 105
p0 −0.02738 ± 0.1733
pull
Entries 106
Mean 91.6
Std Dev 0
pull1D
Entries 106
Mean 0.03518
Std Dev 0.9273

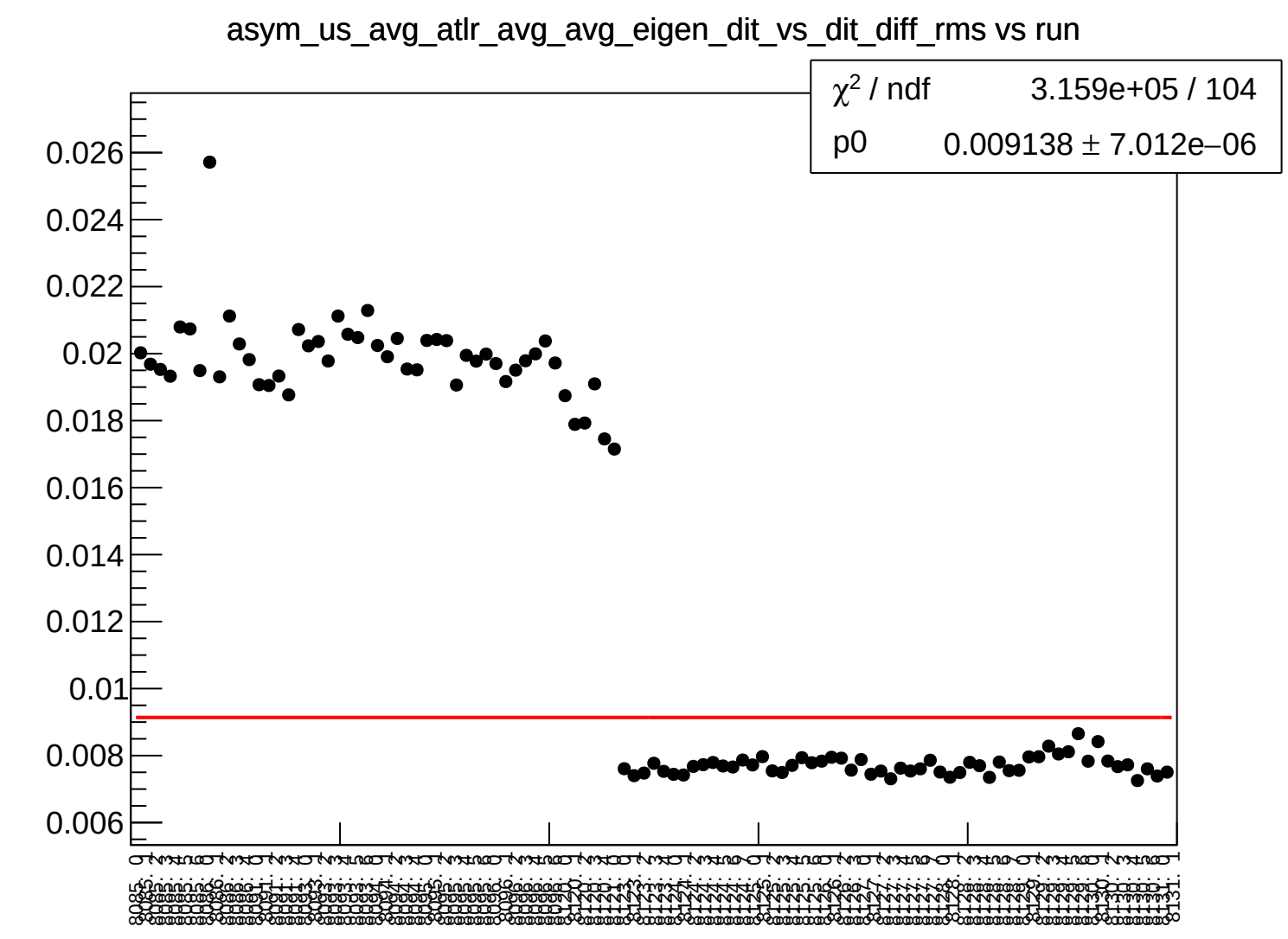

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.404e+05 / 105
p0 159 ± 0.1226
1800
1600
1400
1200
1000
800
600
400
200

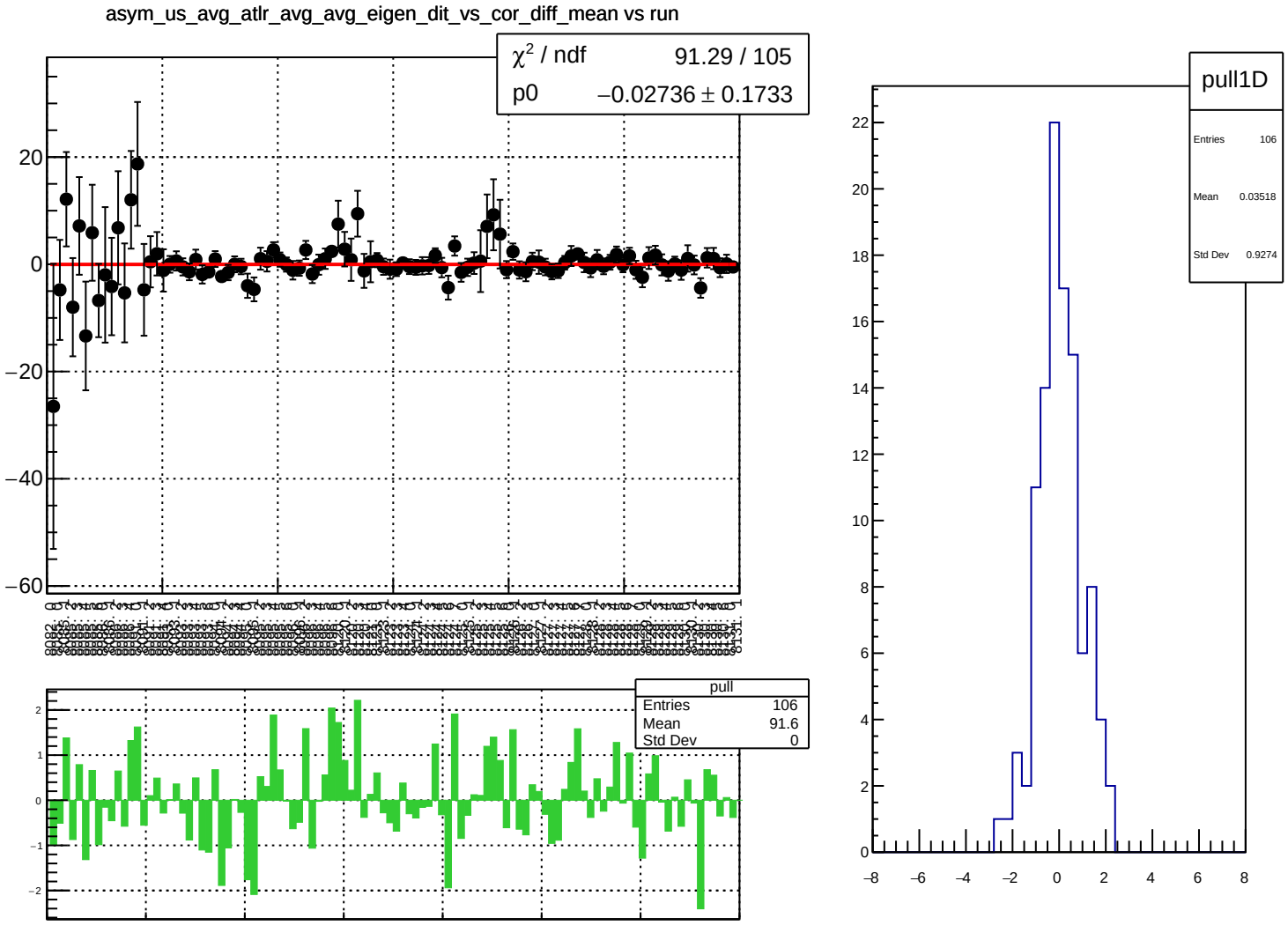

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.29 / 105
p0 −0.02738 ± 0.1733
20
0
−20
−40
−60
pull
Entries 106
Mean 91.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 106
Mean 0.03518
Std Dev 0.9273
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

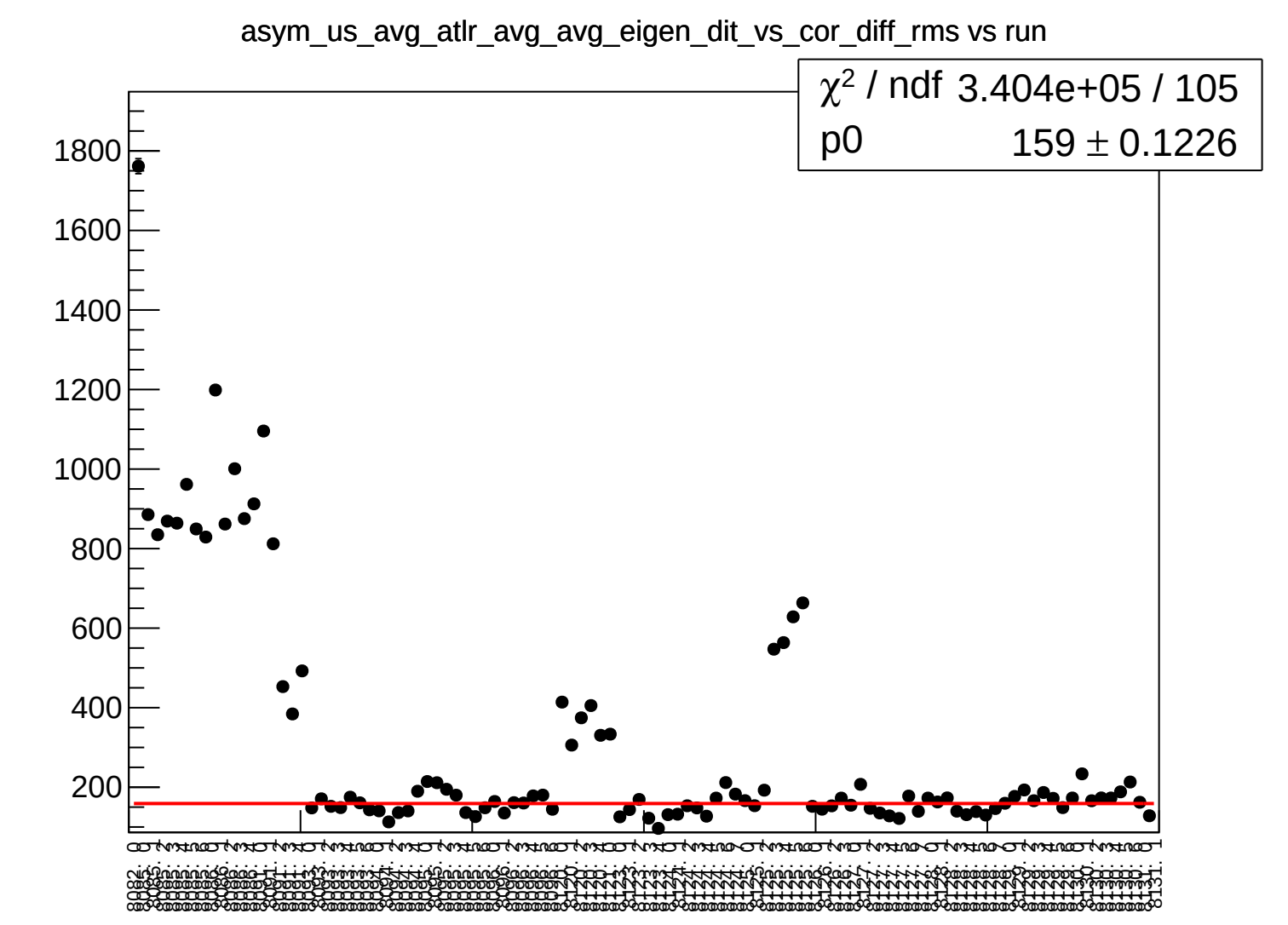

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.404e+05 / 105
p0 159 ± 0.1226
1800
1600
1400
1200
1000
800
600
400
200

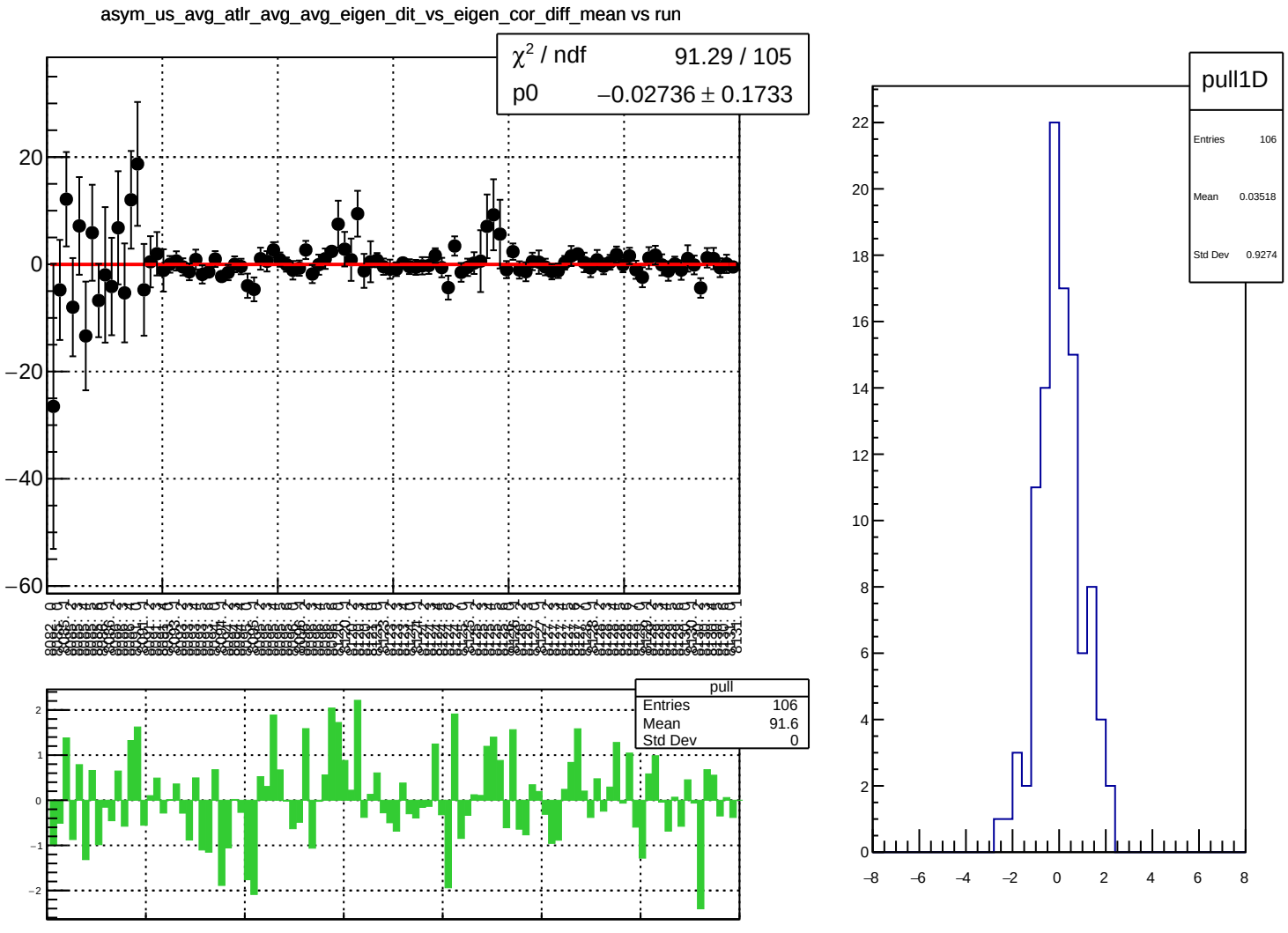

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.68 / 104
p0 1.03e−05 ± 9.917e−06
pull
Entries 105
Mean 20.95
Std Dev 0

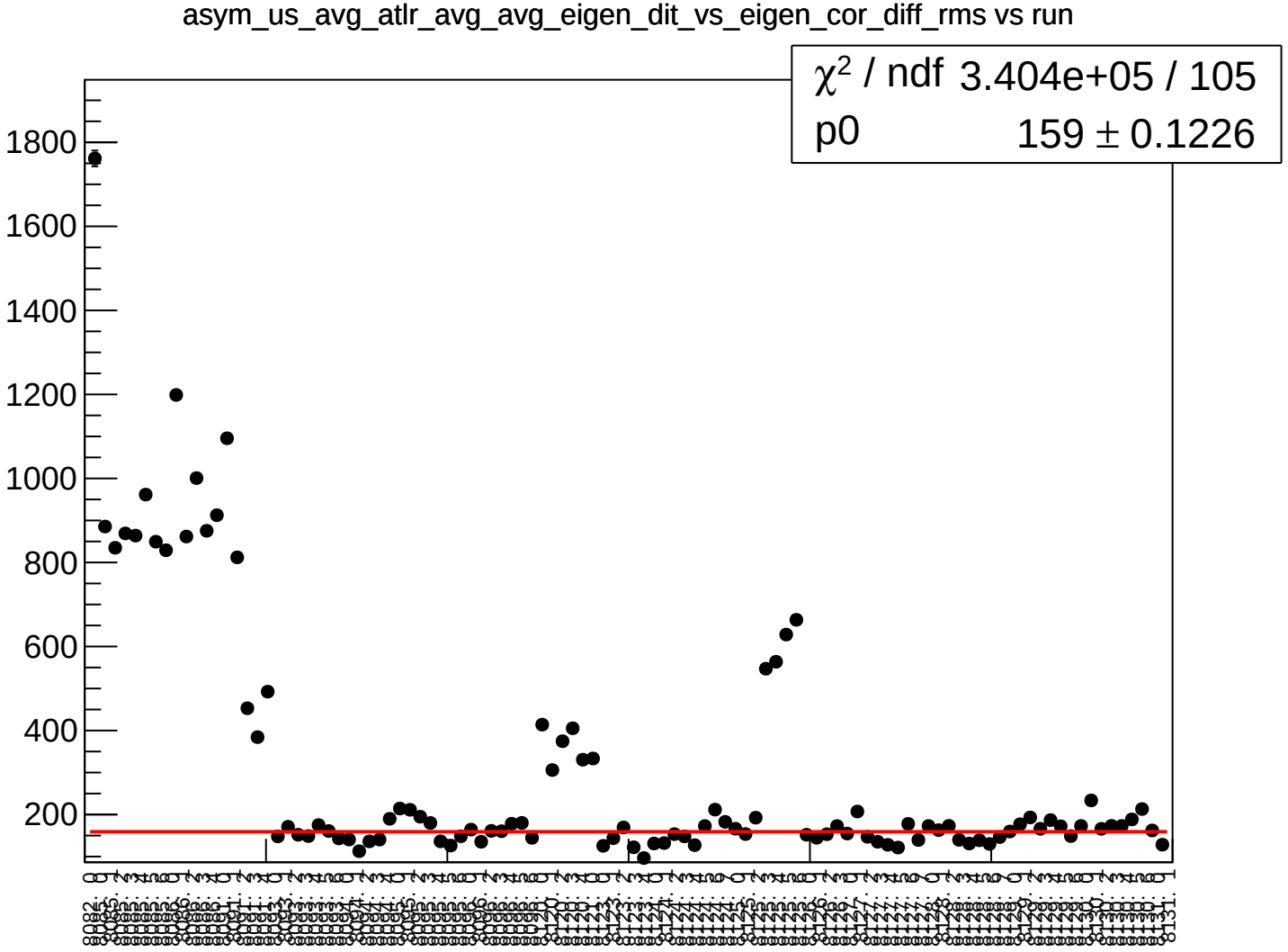

pull1D
Entries 105
Mean 0.06708
Std Dev 0.9217

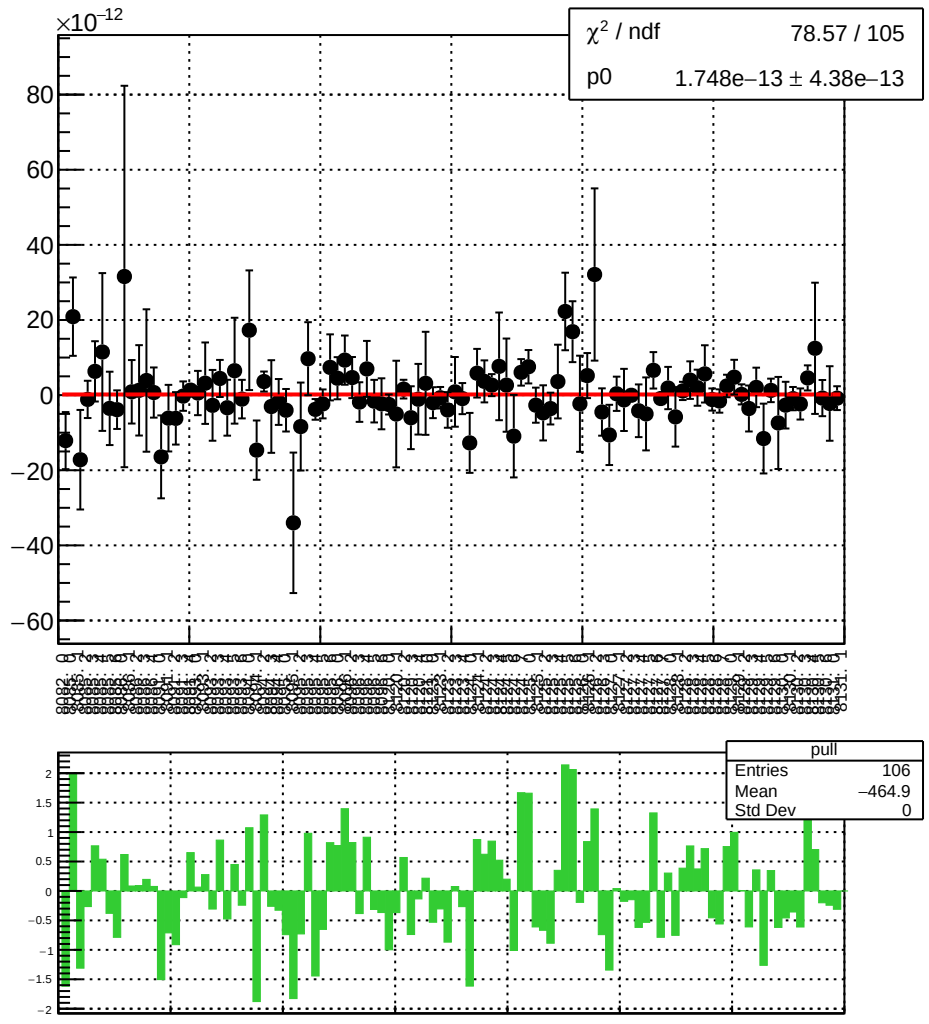

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.159e+05 / 104
p0 0.009138 ± 7.012e−06
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

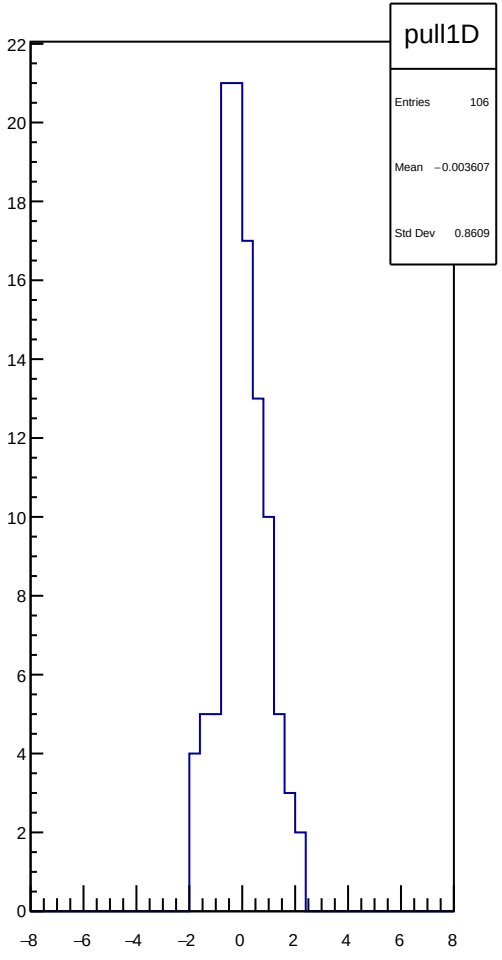

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.29 / 105
p0 −0.02736 ± 0.1733
20
0
−20
−40
−60
pull
Entries 106
Mean 91.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 106
Mean 0.03518
Std Dev 0.9274
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

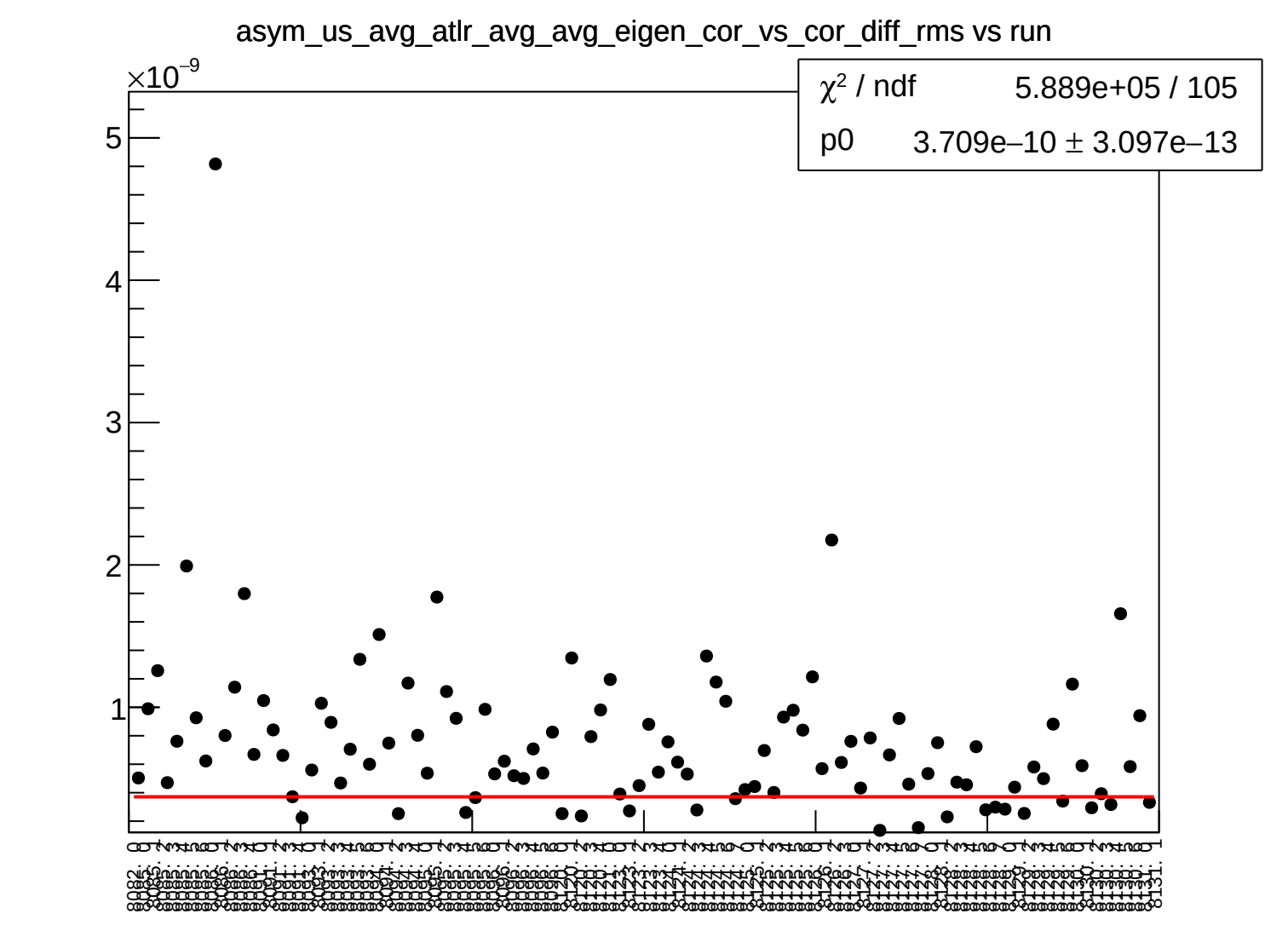

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.404e+05 / 105
p0 159 ± 0.1226
1800
1600
1400
1200
1000
800
600
400
200

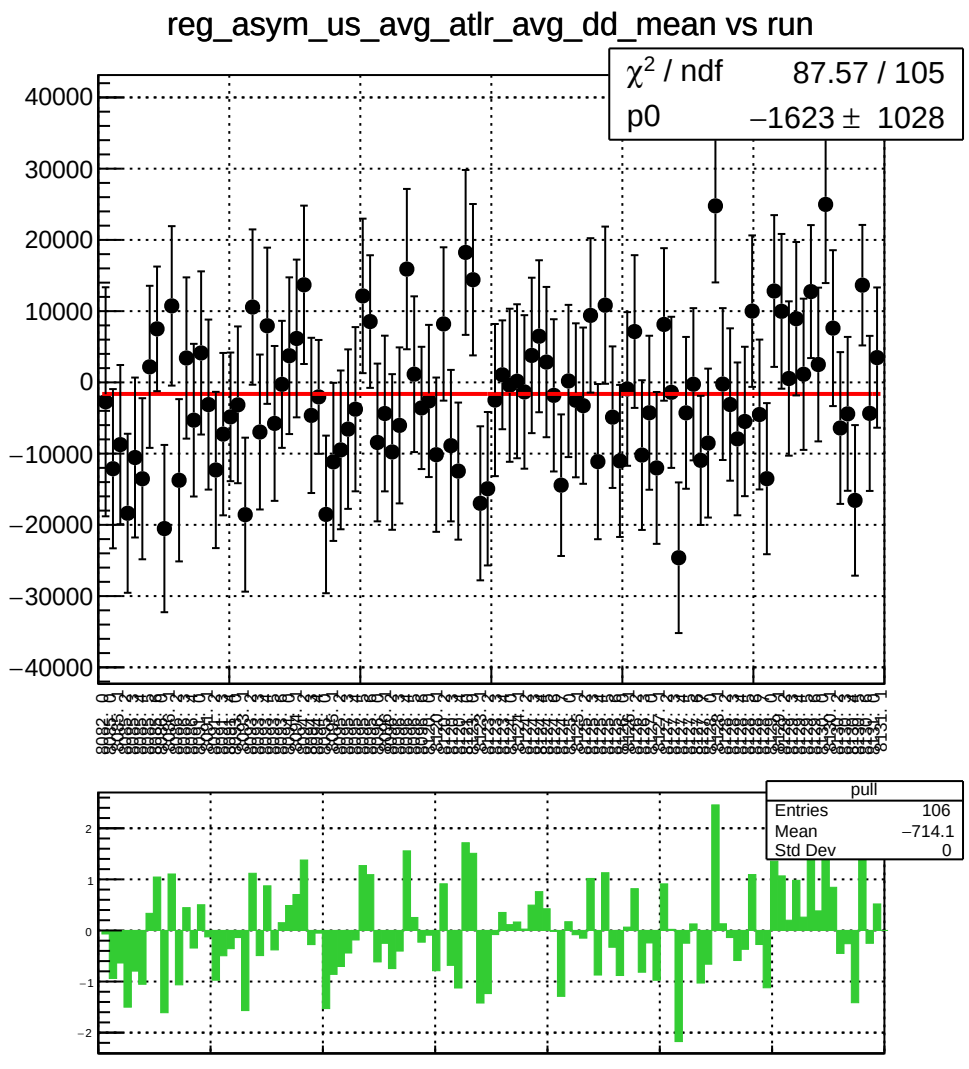

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.29 / 105
p0 −0.02736 ± 0.1733
pull
Entries 106
Mean 91.6
Std Dev 0
pull1D
Entries 106
Mean 0.03518
Std Dev 0.9274

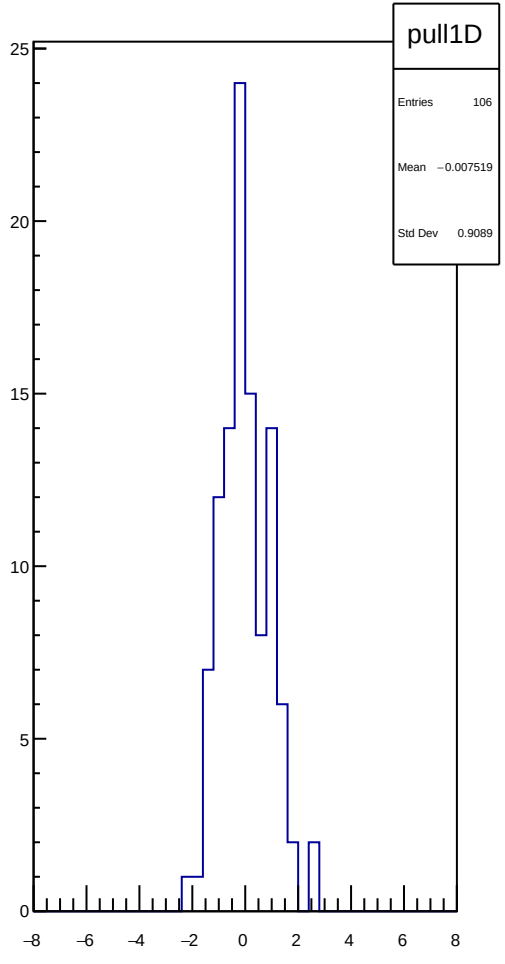

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.404e+05 / 105
p0 159 ± 0.1226
1800
1600
1400
1200
1000
800
600
400
200

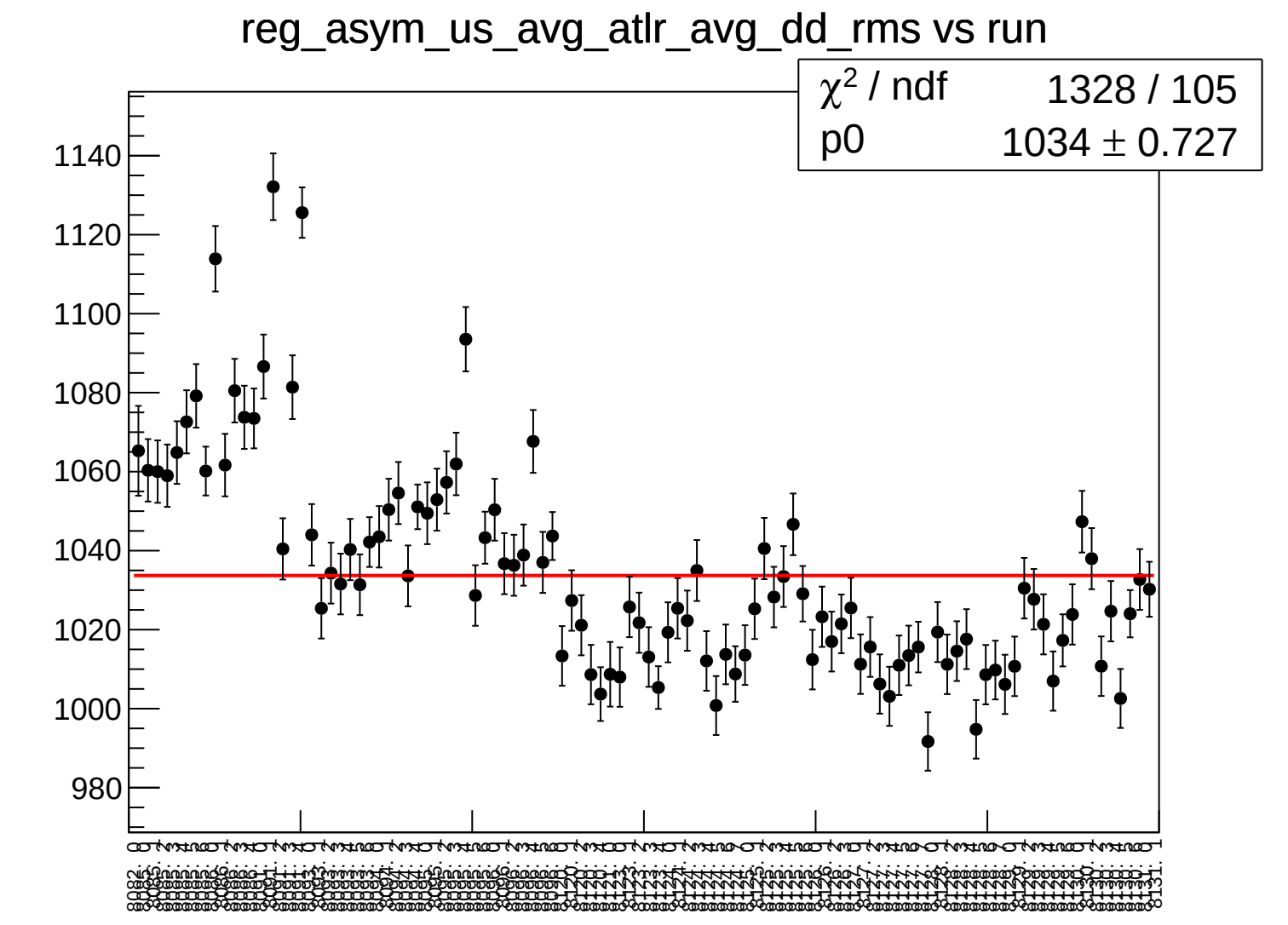

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 78.57 / 105
p0 1.748e−13 ± 4.38e−13
pull
Entries 106
Mean −464.9
Std Dev 0

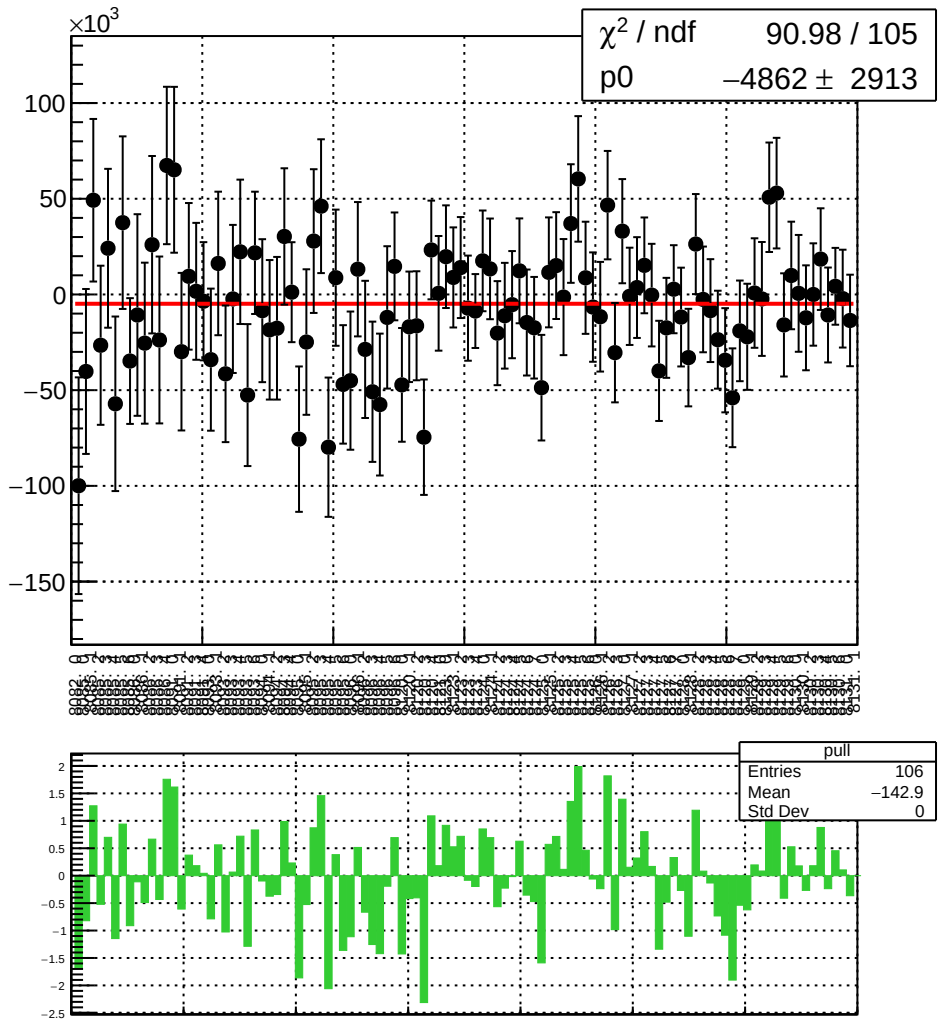

pull1D
Entries 106
Mean −0.003607
Std Dev 0.8609

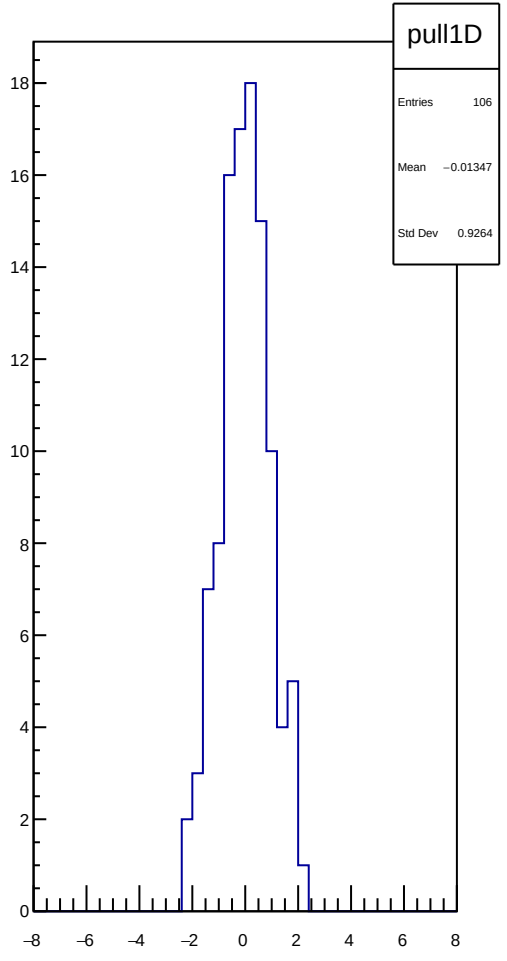

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.889e+05 / 105
p0 3.709e−10 ± 3.097e−13
5
4
3
2
1

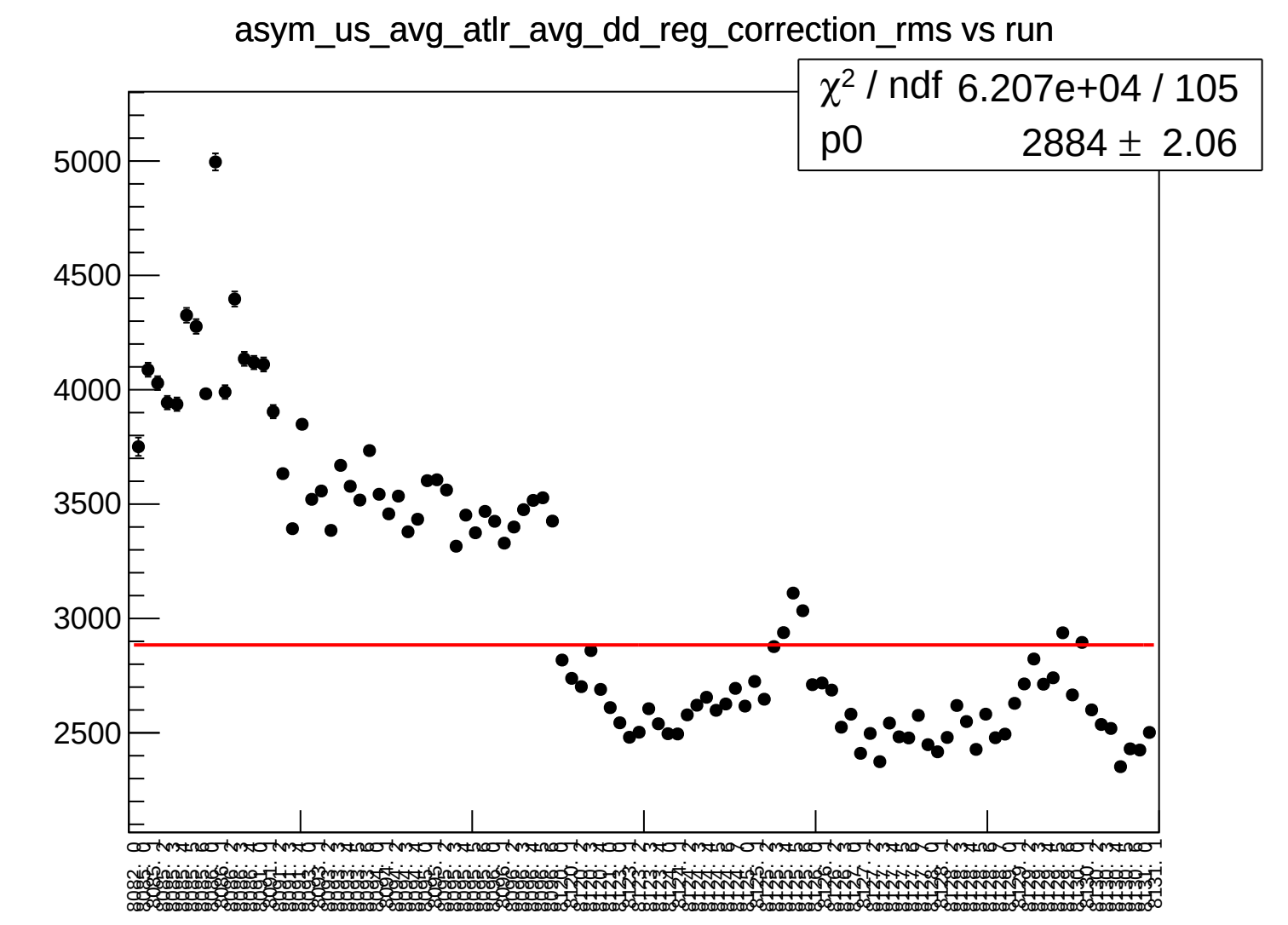

reg_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 87.57 / 105
p0 −1623 ± 1028
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 106
Mean −714.1
Std Dev 0
2
1
0
−1
−2

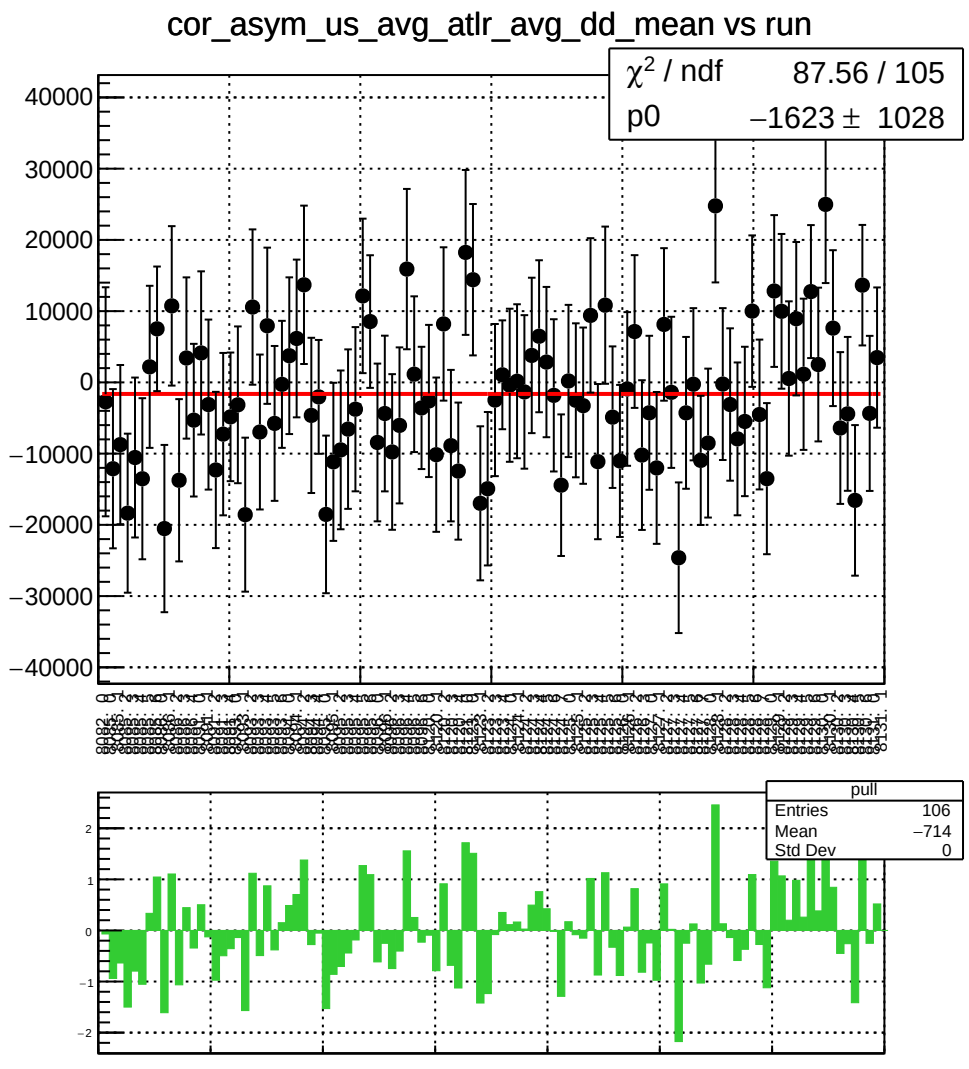

pull1D
Entries 106
Mean −0.007519
Std Dev 0.9089
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

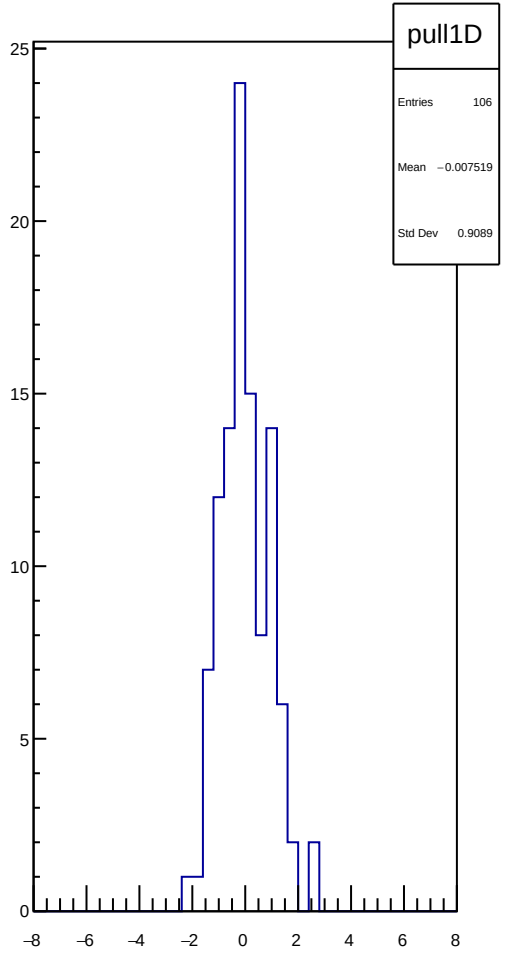

reg_asym_us_avg_atlr_avg_dd_rms vs run
$\chi^2$ / ndf 1328 / 105
p0 1034 ± 0.727
1140
1120
1100
1080
1060
1040
1020
1000
980

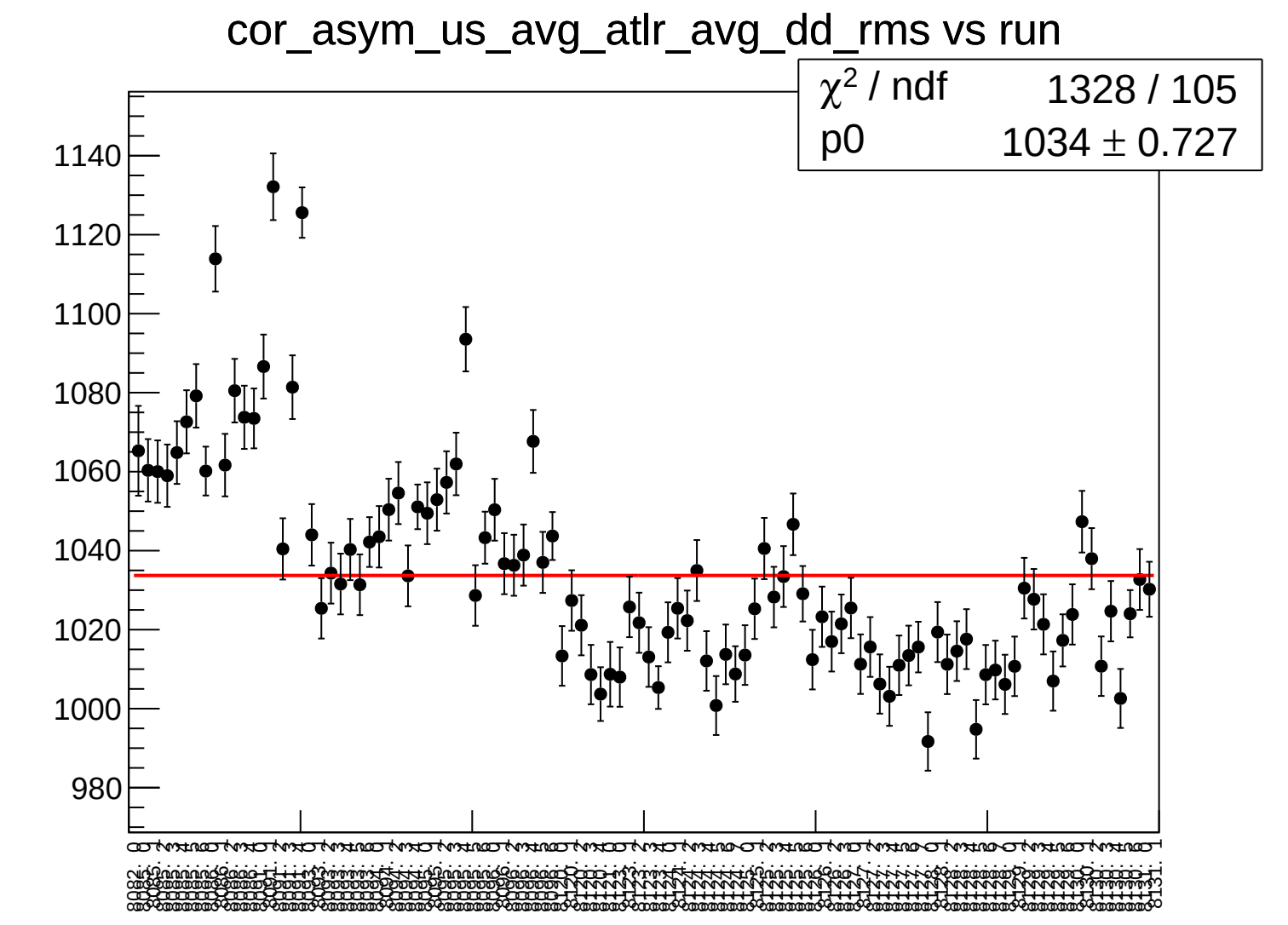

asym_us_avg_atlr_avg_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 90.98 / 105
p0 −4862 ± 2913
100
50
0
−50
−100
−150
pull
Entries 106
Mean −142.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

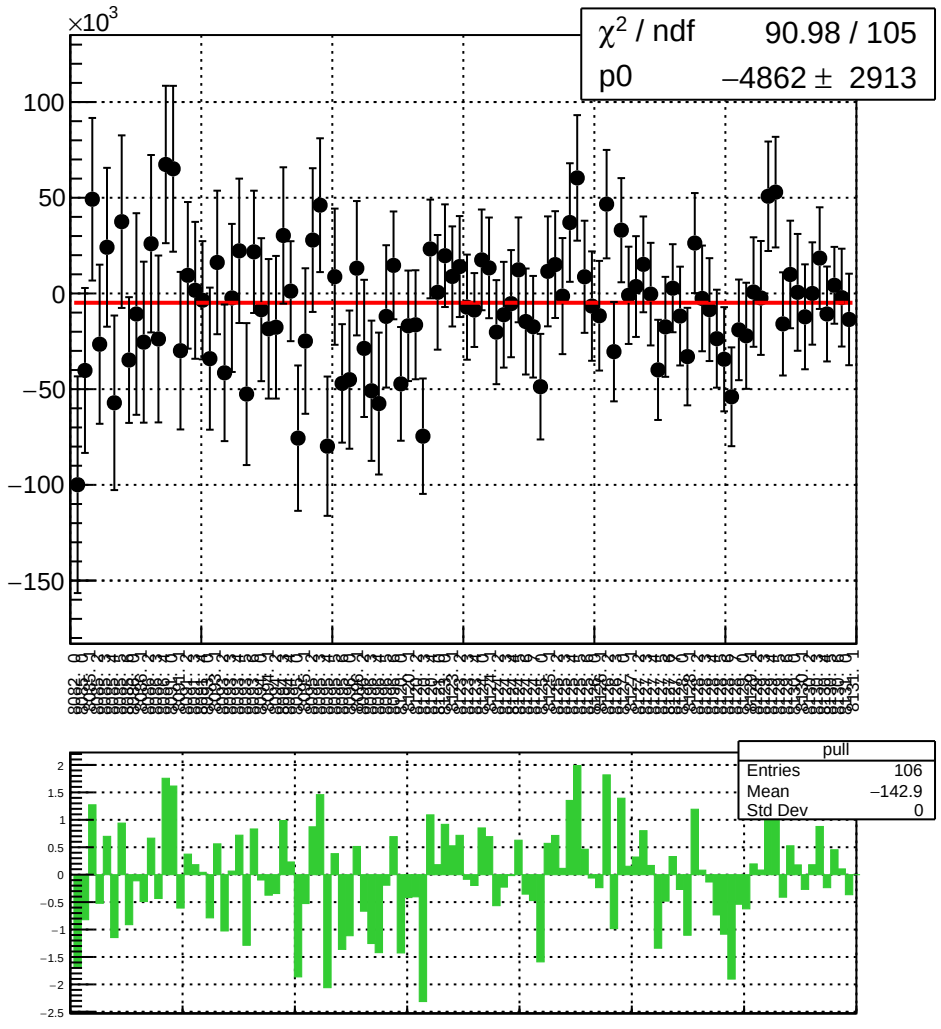

pull1D
Entries 106
Mean −0.01347
Std Dev 0.9264
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

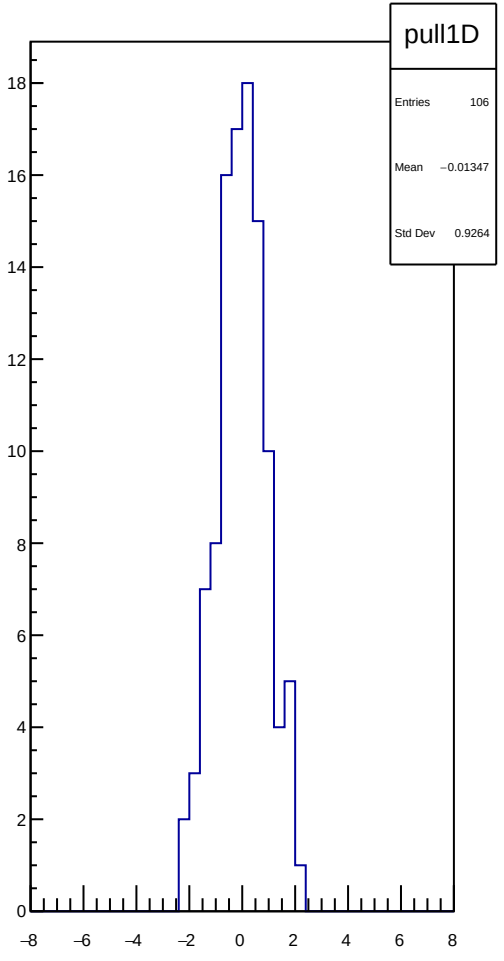

asym_us_avg_atlr_avg_dd_reg_correction_rms vs run
χ² / ndf 6.207e+04 / 105
p0 2884 ± 2.06
5000
4500
4000
3500
3000
2500

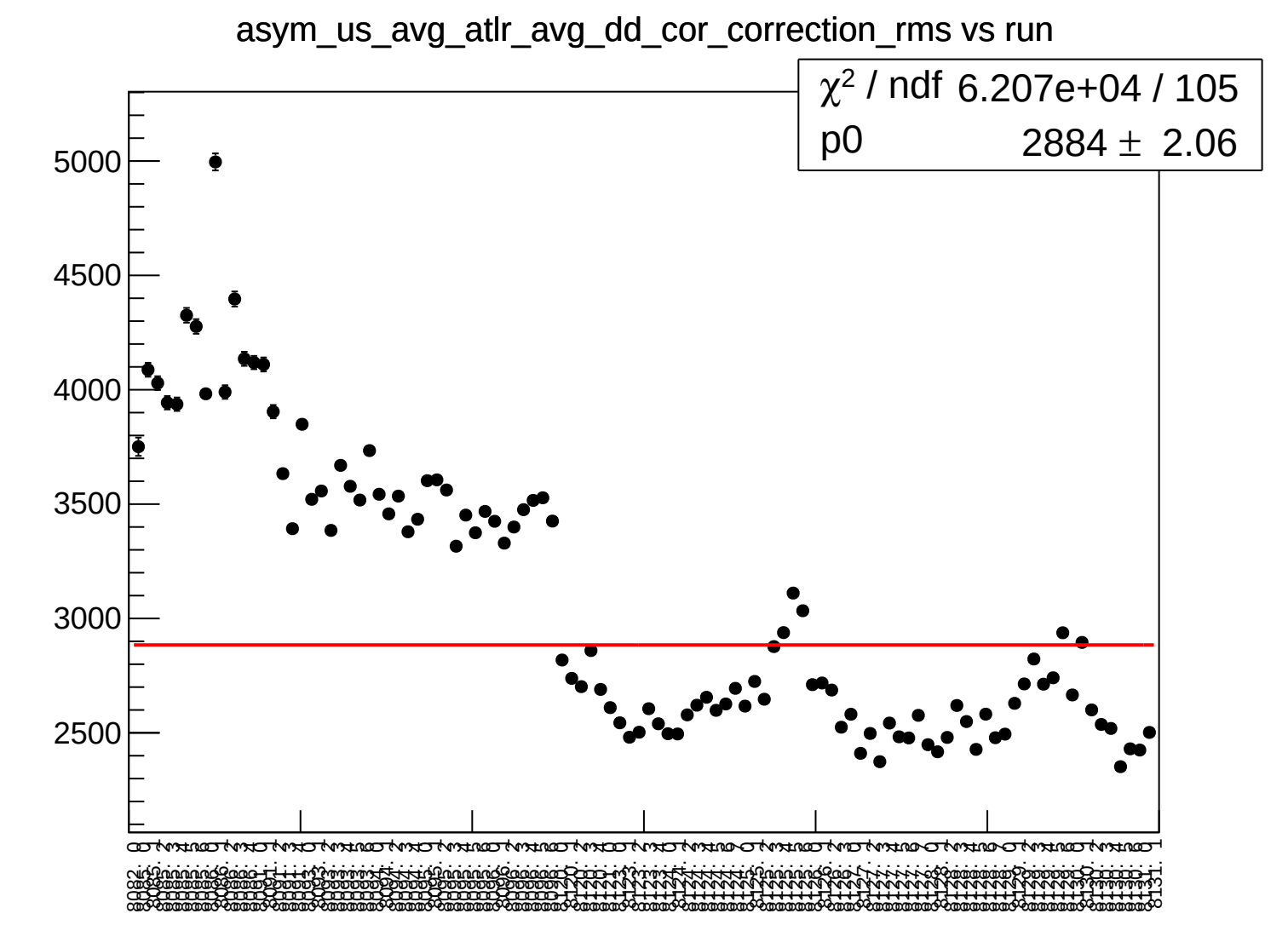

cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 87.56 / 105
p0 −1623 ± 1028
pull
Entries 106
Mean −714
Std Dev 0

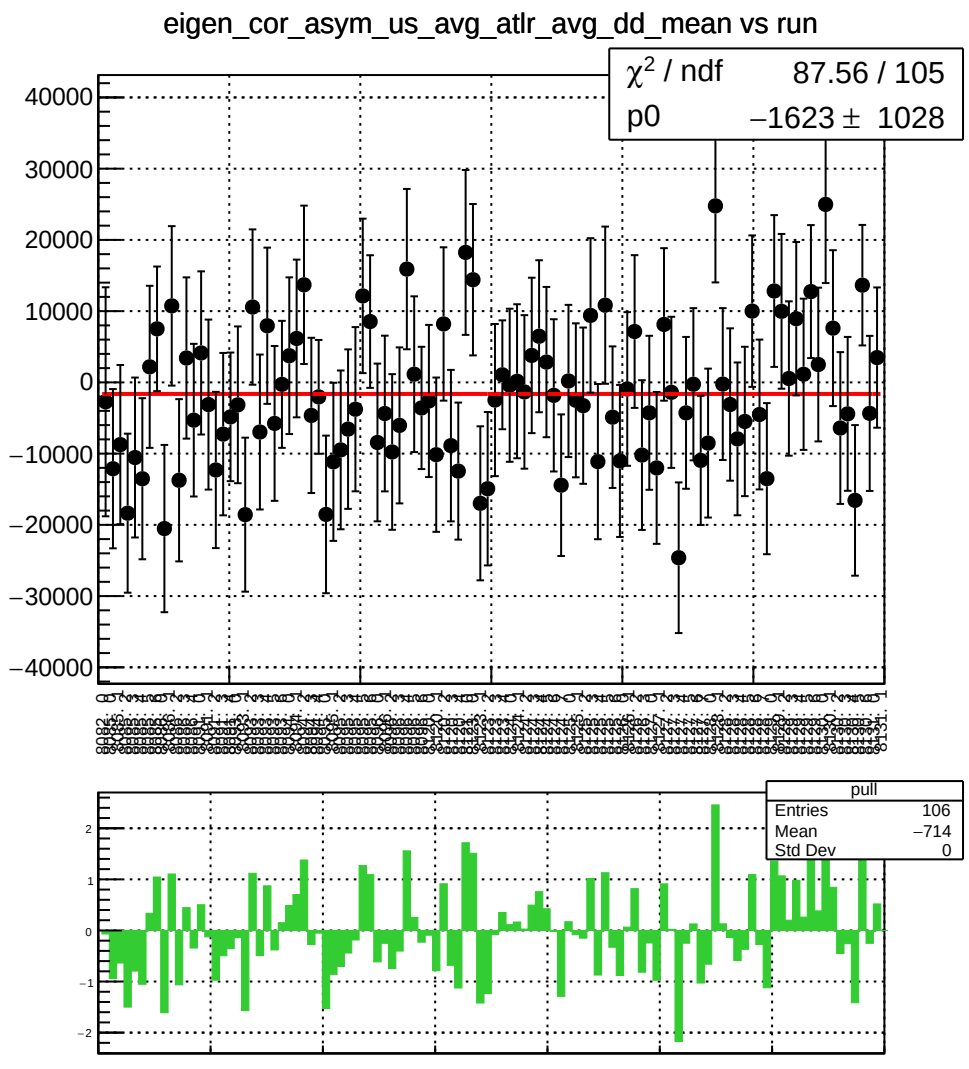

pull1D
Entries 106
Mean −0.007519
Std Dev 0.9089

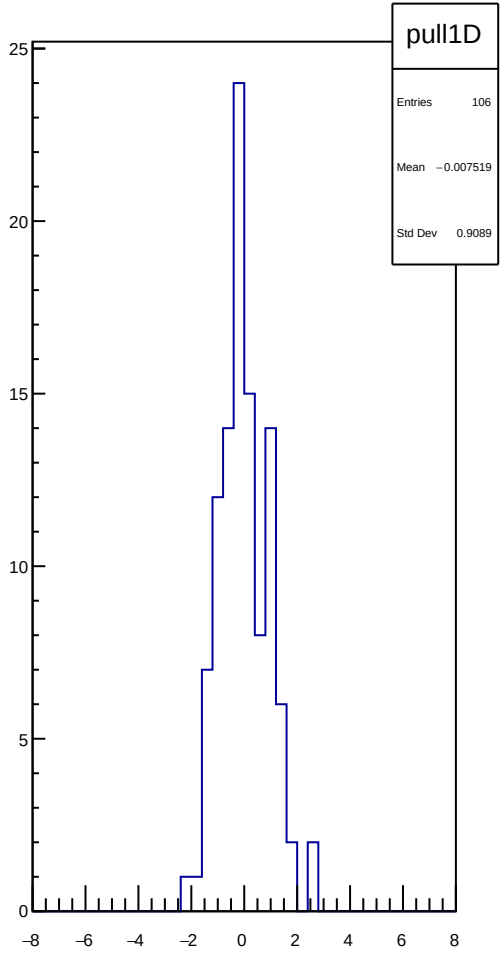

cor_asym_us_avg_atlr_avg_dd_rms vs run
$\chi^2$ / ndf 1328 / 105
p0 1034 ± 0.727
1140
1120
1100
1080
1060
1040
1020
1000
980

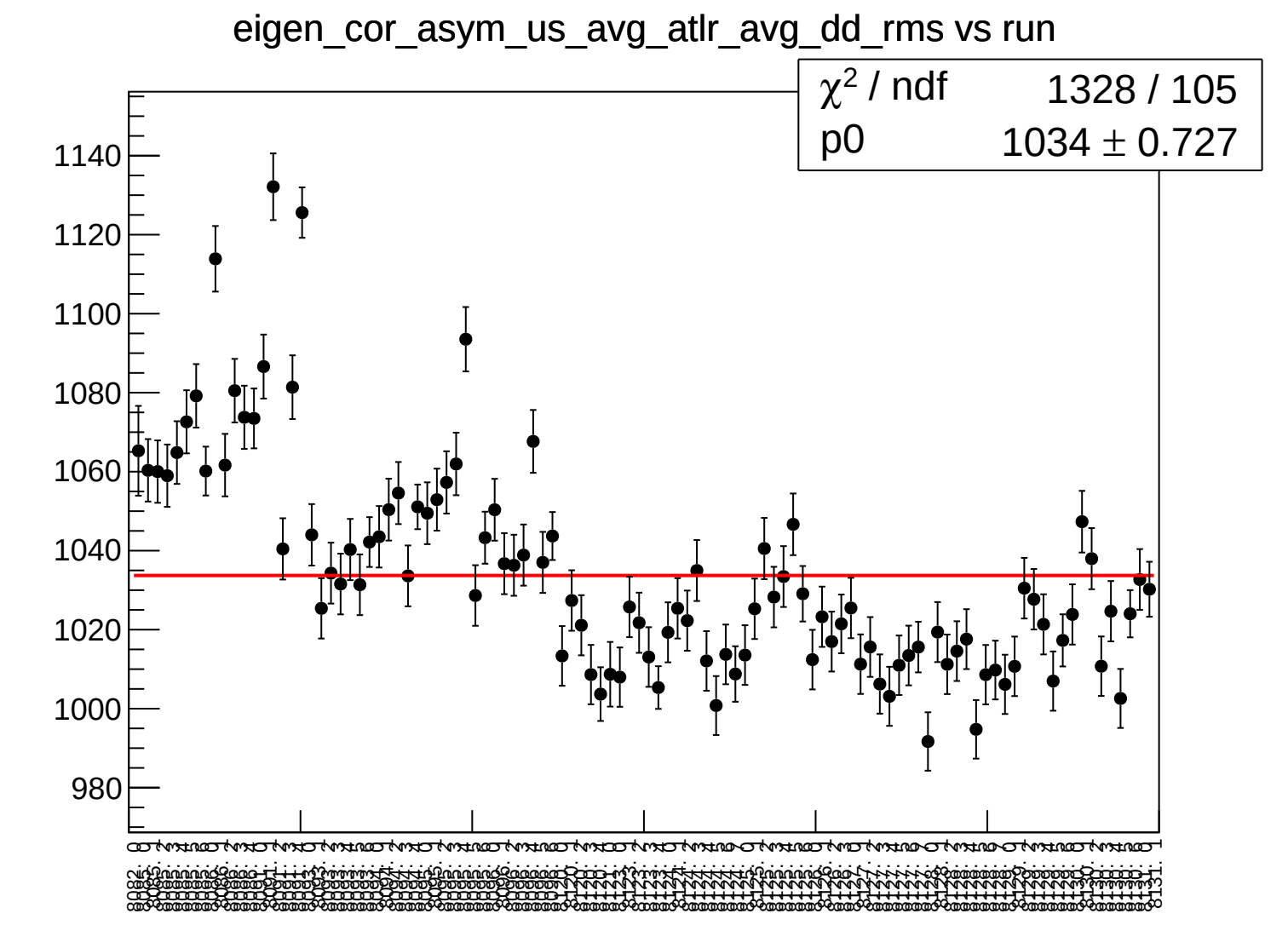

asym_us_avg_atlr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 90.98 / 105
p0 −4862 ± 2913
100
50
0
−50
−100
−150
pull
Entries 106
Mean −142.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

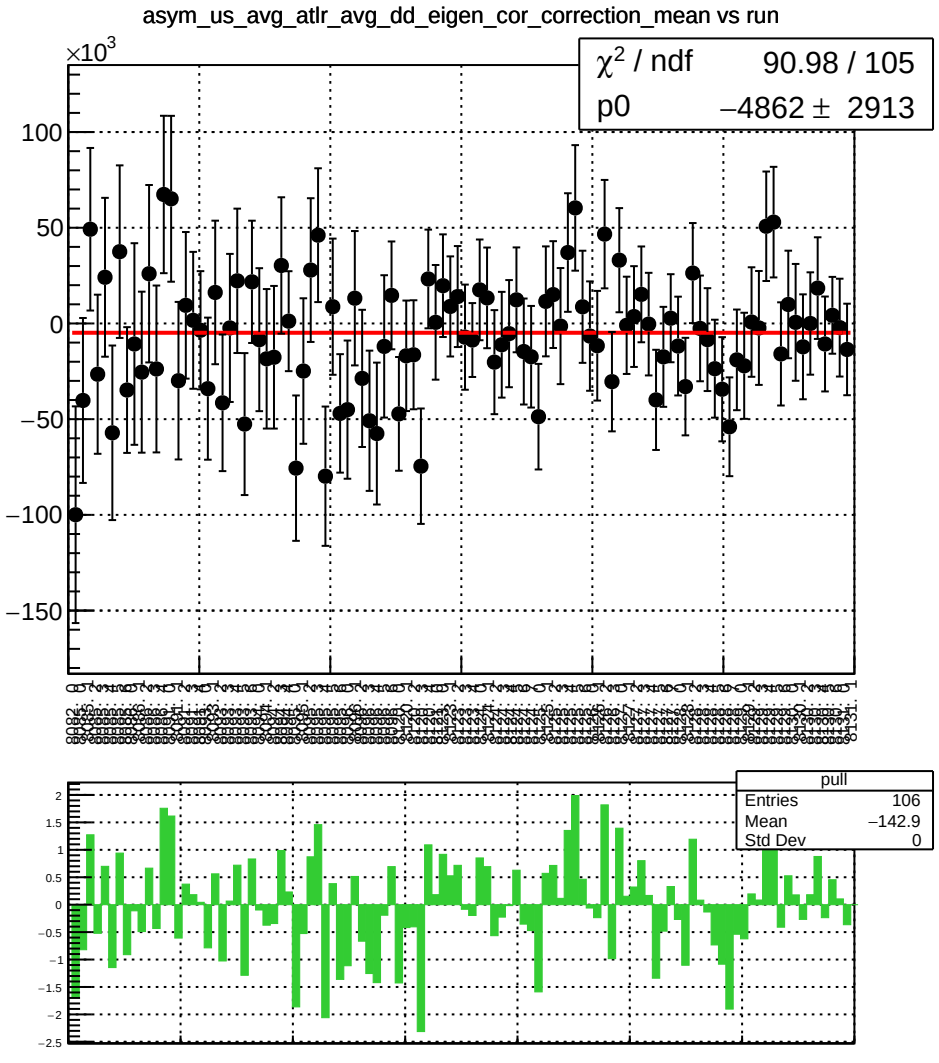

pull1D
Entries 106
Mean −0.01347
Std Dev 0.9264
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

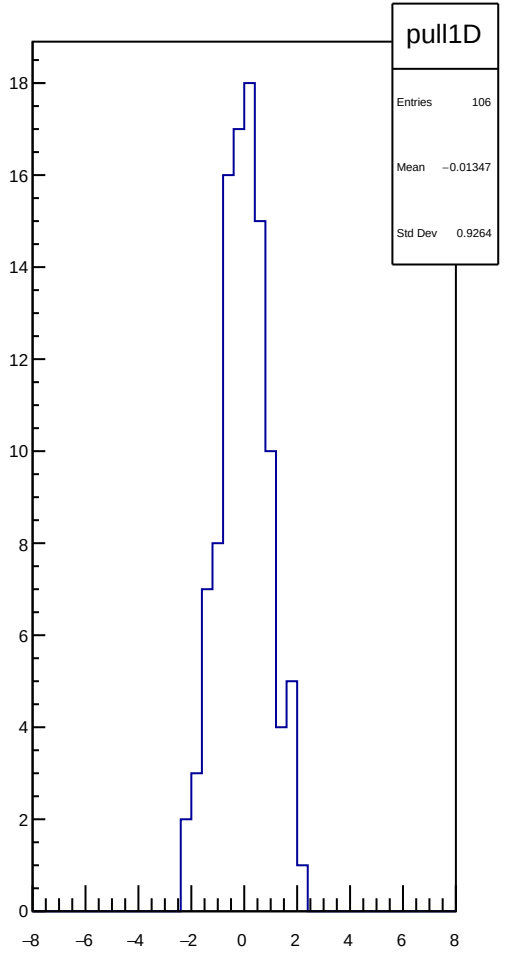

asym_us_avg_atlr_avg_dd_cor_correction_rms vs run
χ² / ndf 6.207e+04 / 105
p0 2884 ± 2.06
5000
4500
4000
3500
3000
2500

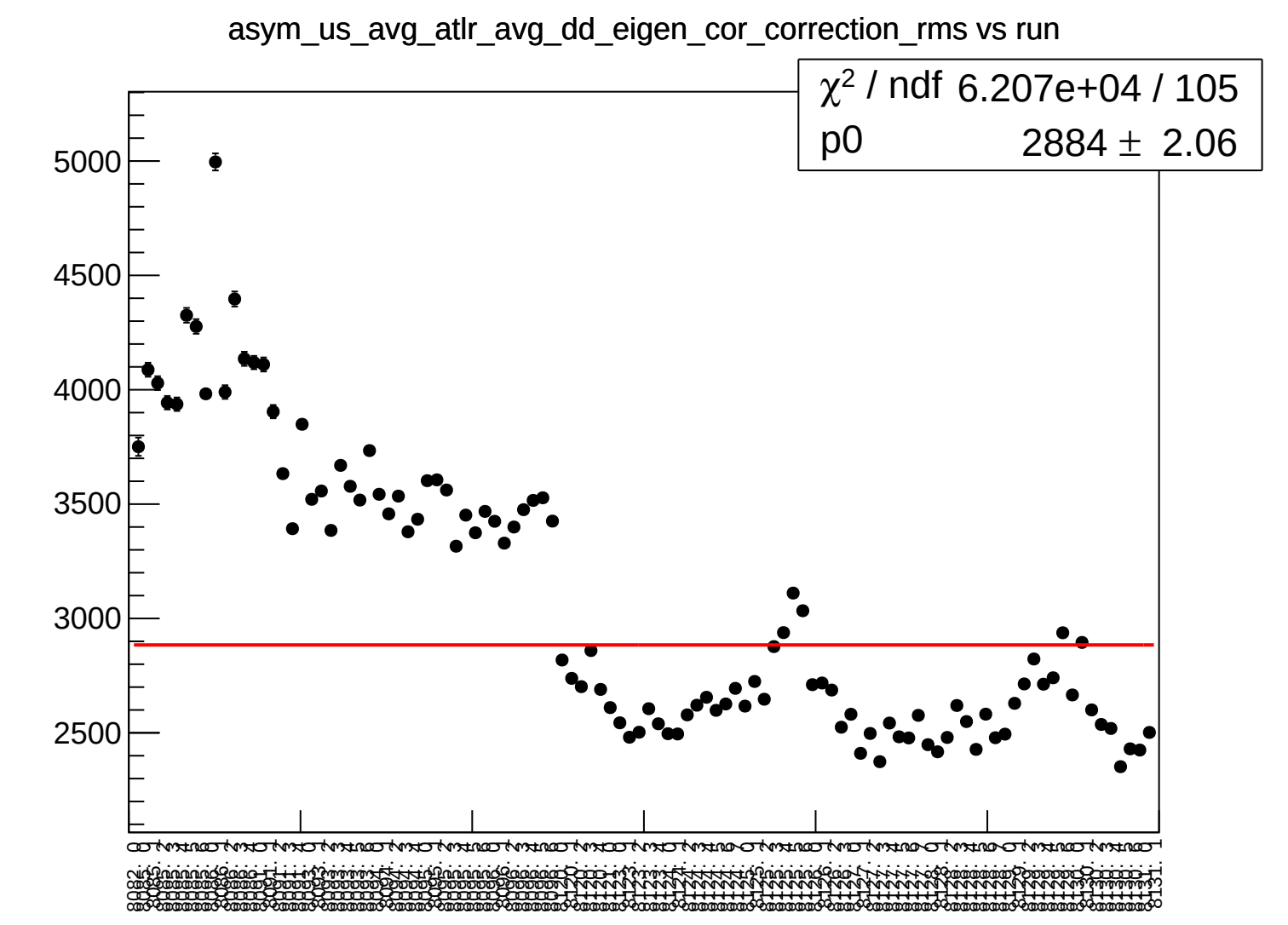

eigen_cor_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 87.56 / 105
p0 −1623 ± 1028
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 106
Mean −714
Std Dev 0
2
1
0
−1
−2

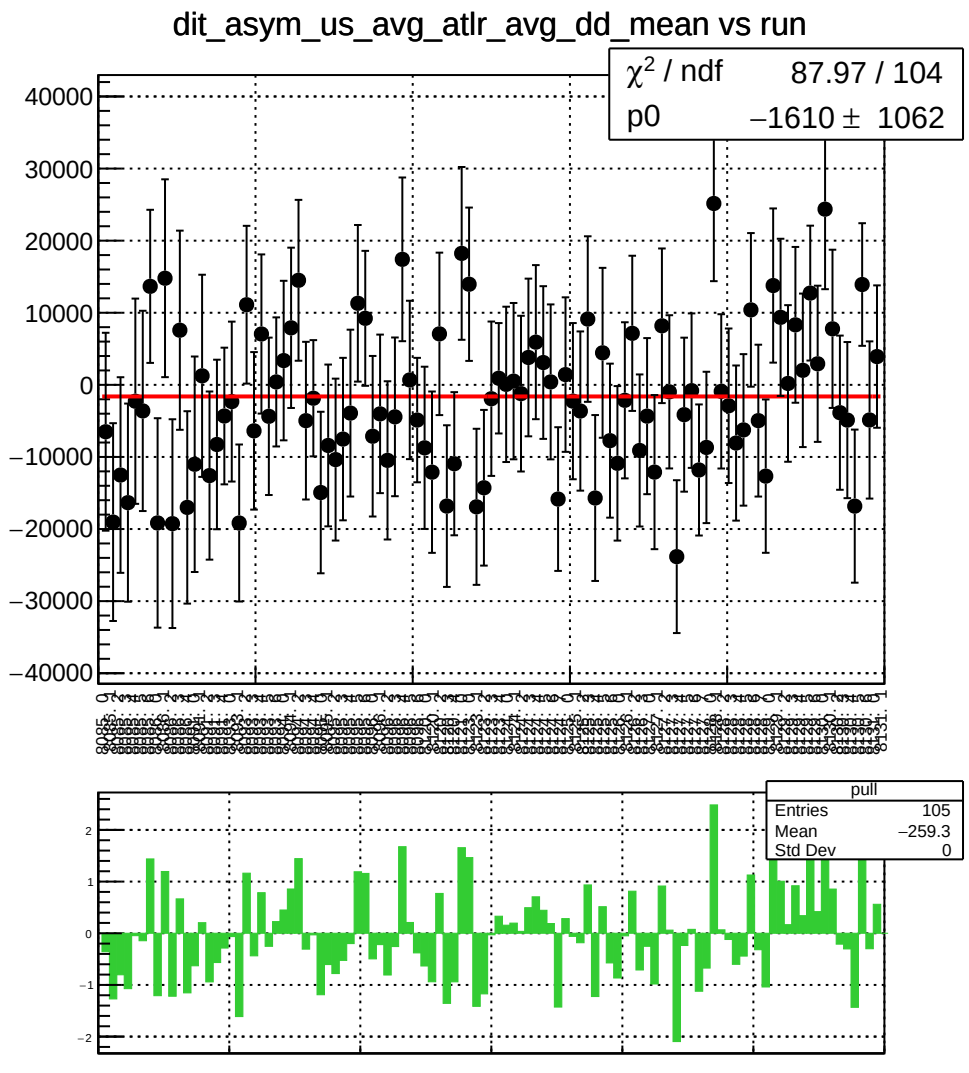

pull1D
Entries 106
Mean −0.007519
Std Dev 0.9089
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

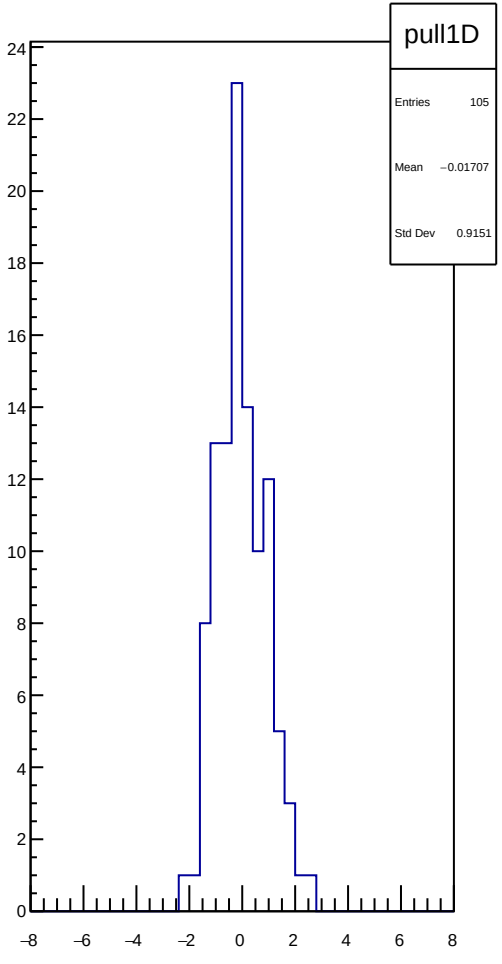

eigen_cor_asym_us_avg_atlr_avg_dd_rms vs run
$\chi^2$ / ndf 1328 / 105
p0 1034 ± 0.727
1140
1120
1100
1080
1060
1040
1020
1000
980

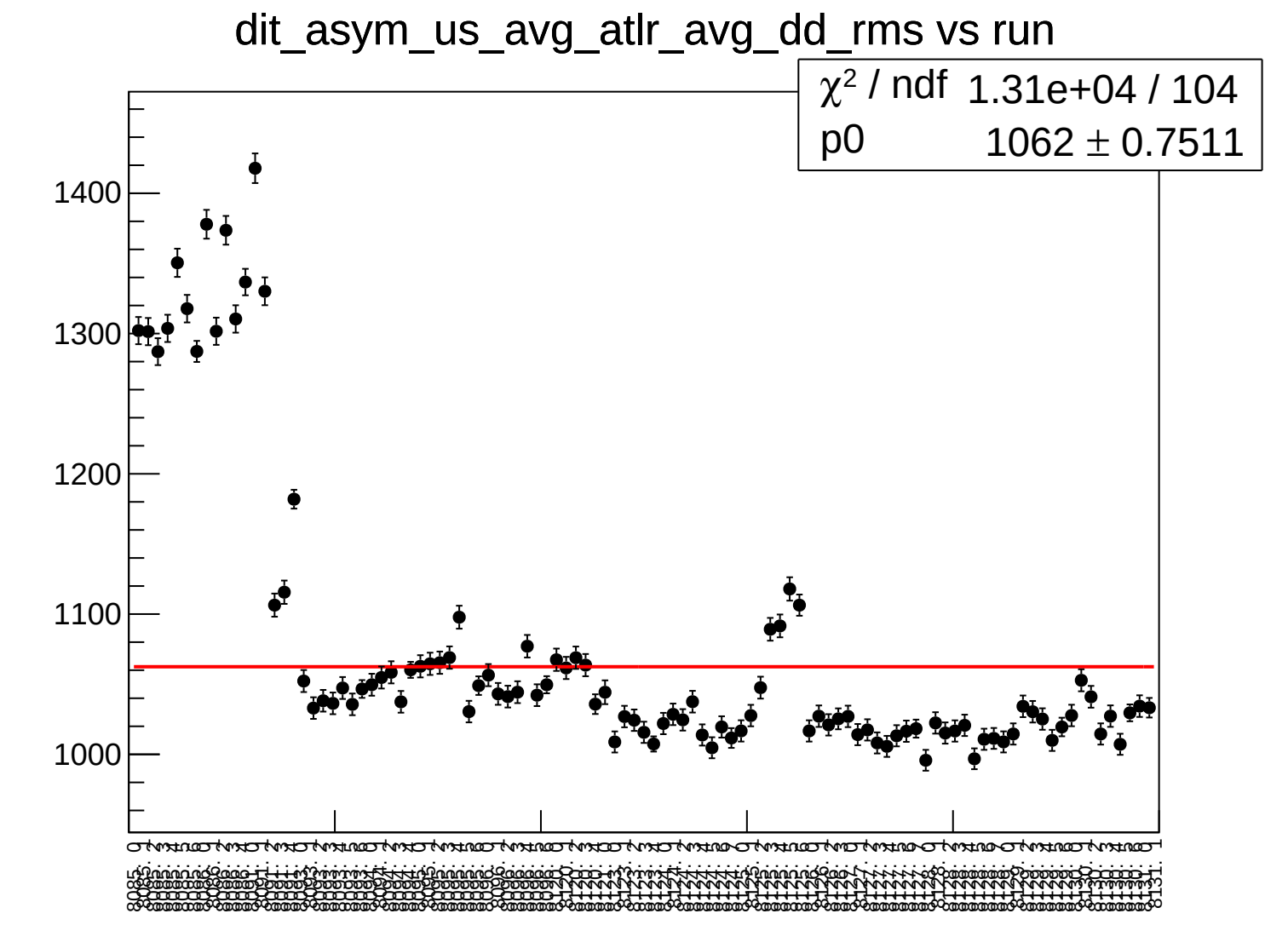

asym_us_avg_atlr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 90.98 / 105
p0 −4862 ± 2913
100
50
0
−50
−100
−150
pull
Entries 106
Mean −142.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

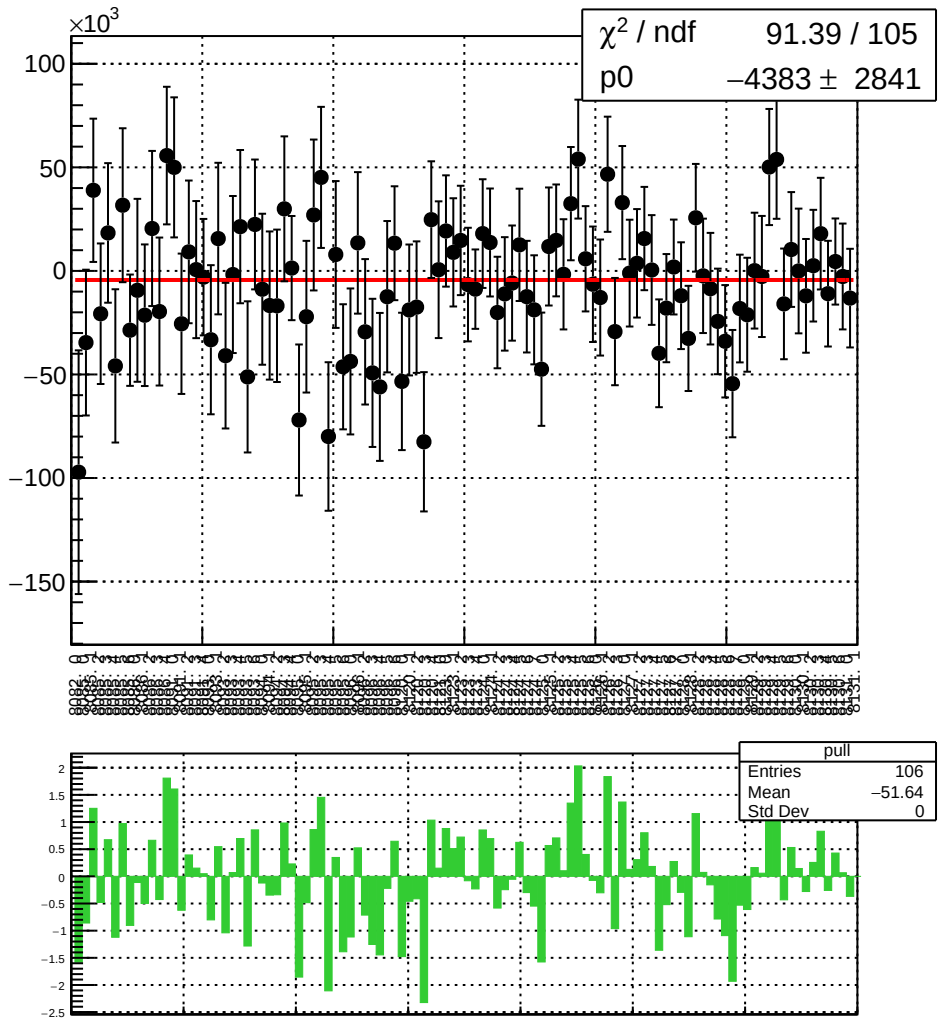

pull1D
Entries 106
Mean −0.01347
Std Dev 0.9264
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

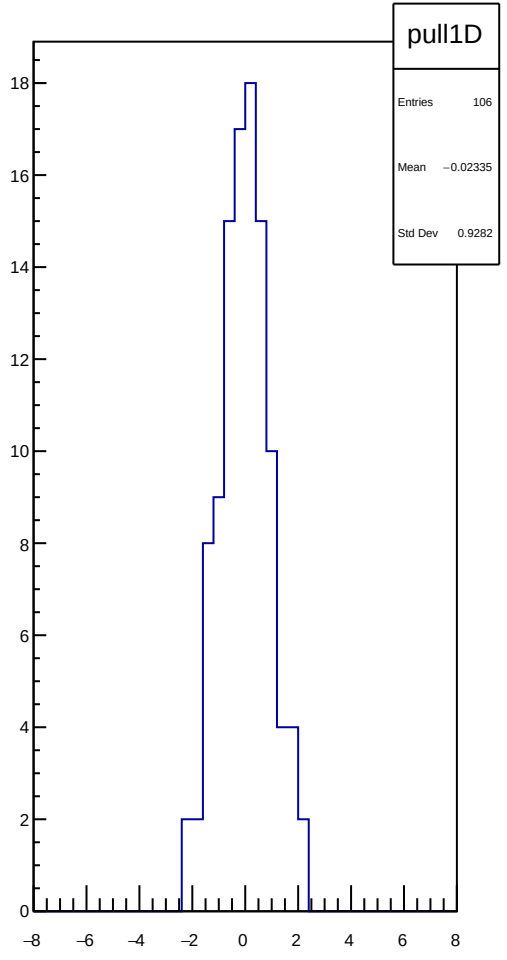

asym_us_avg_atlr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 6.207e+04 / 105
p0 2884 ± 2.06
5000
4500
4000
3500
3000
2500

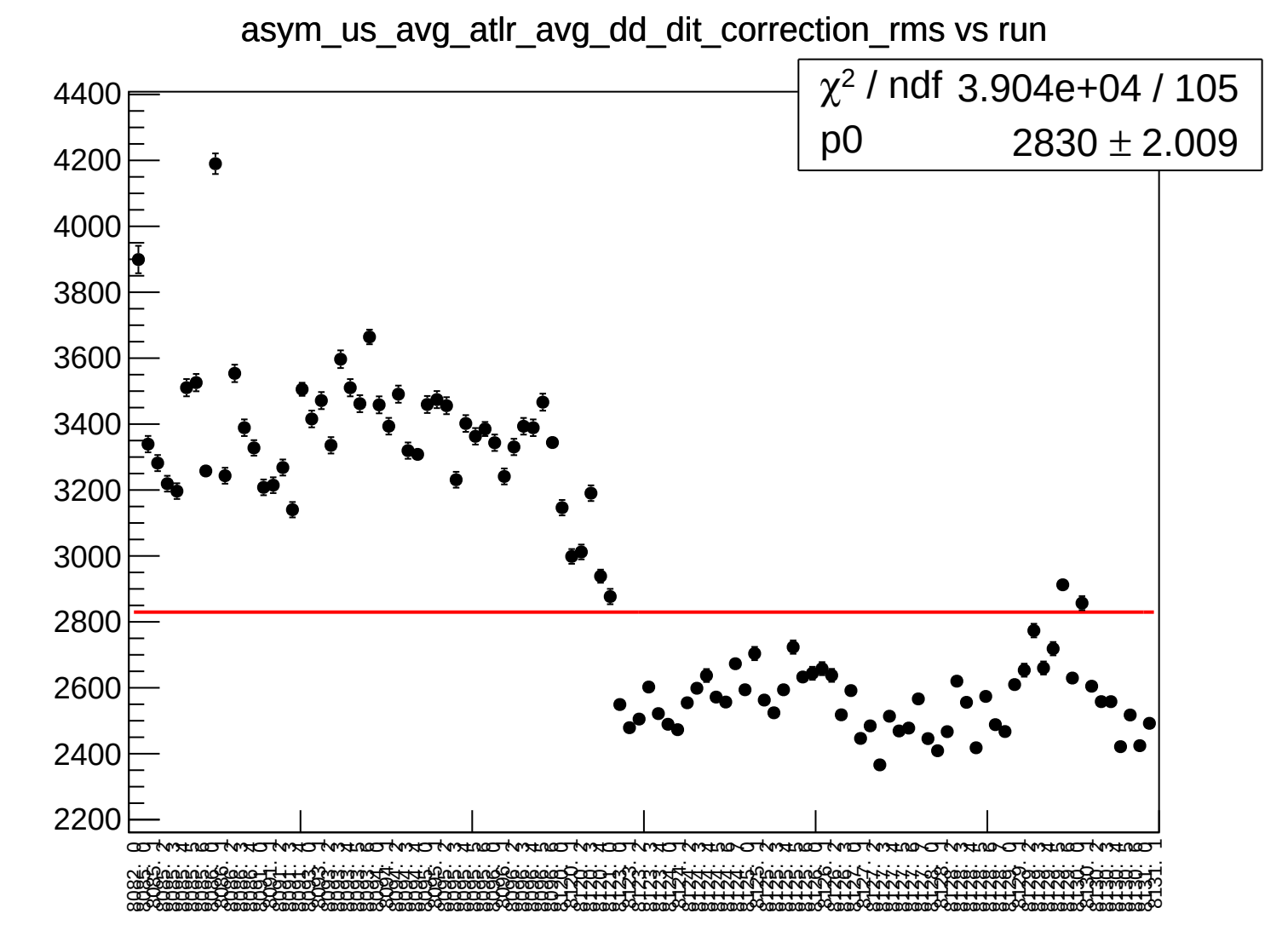

dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 87.97 / 104
p0 −1610 ± 1062
pull
Entries 105
Mean −259.3
Std Dev 0

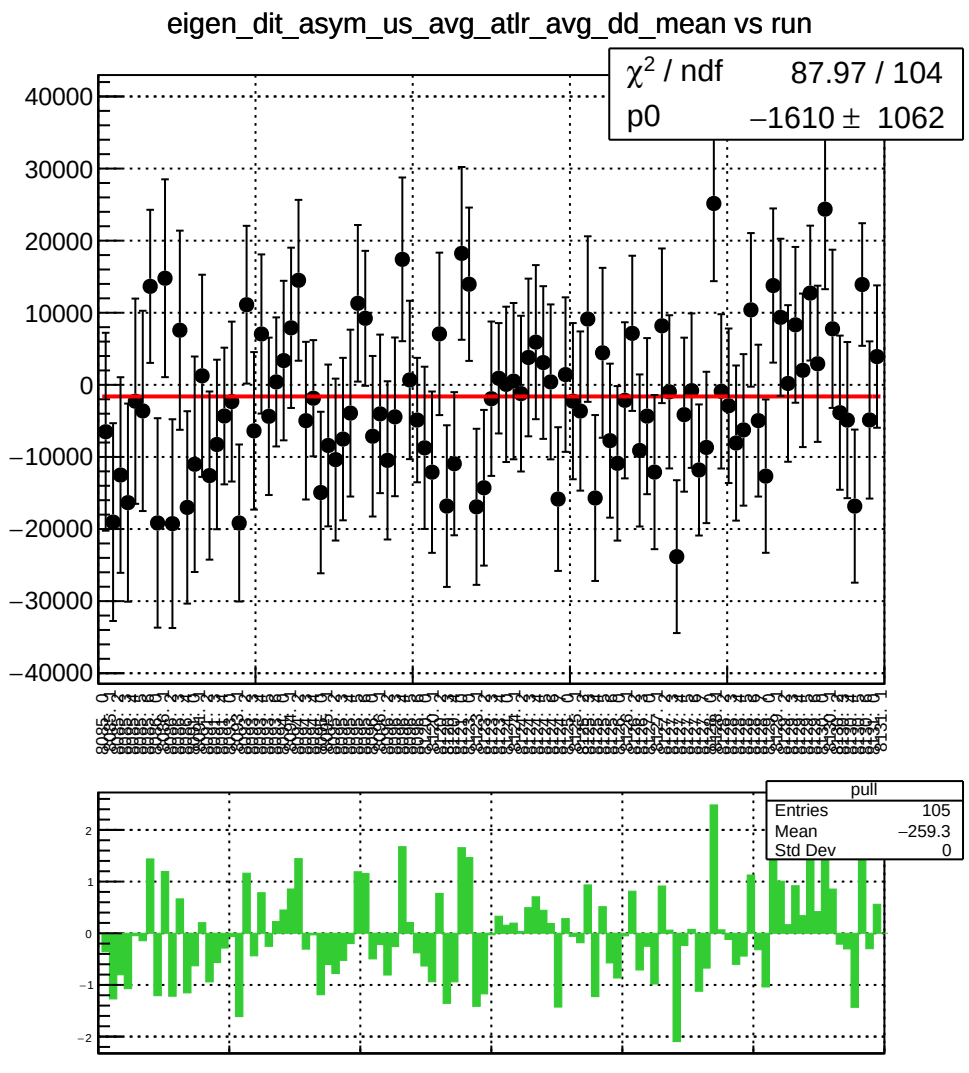

pull1D
Entries 105
Mean −0.01707
Std Dev 0.9151

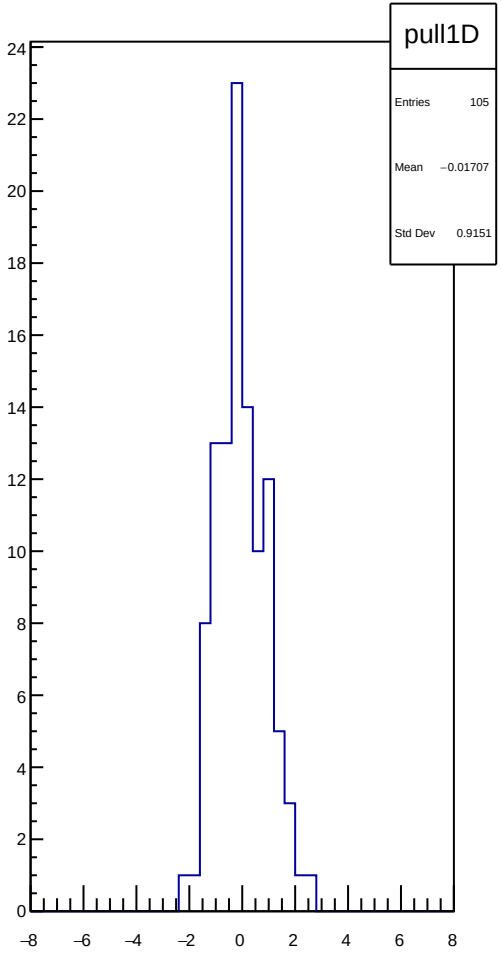

dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 1.31e+04 / 104
p0 1062 ± 0.7511
1400
1300
1200
1100
1000

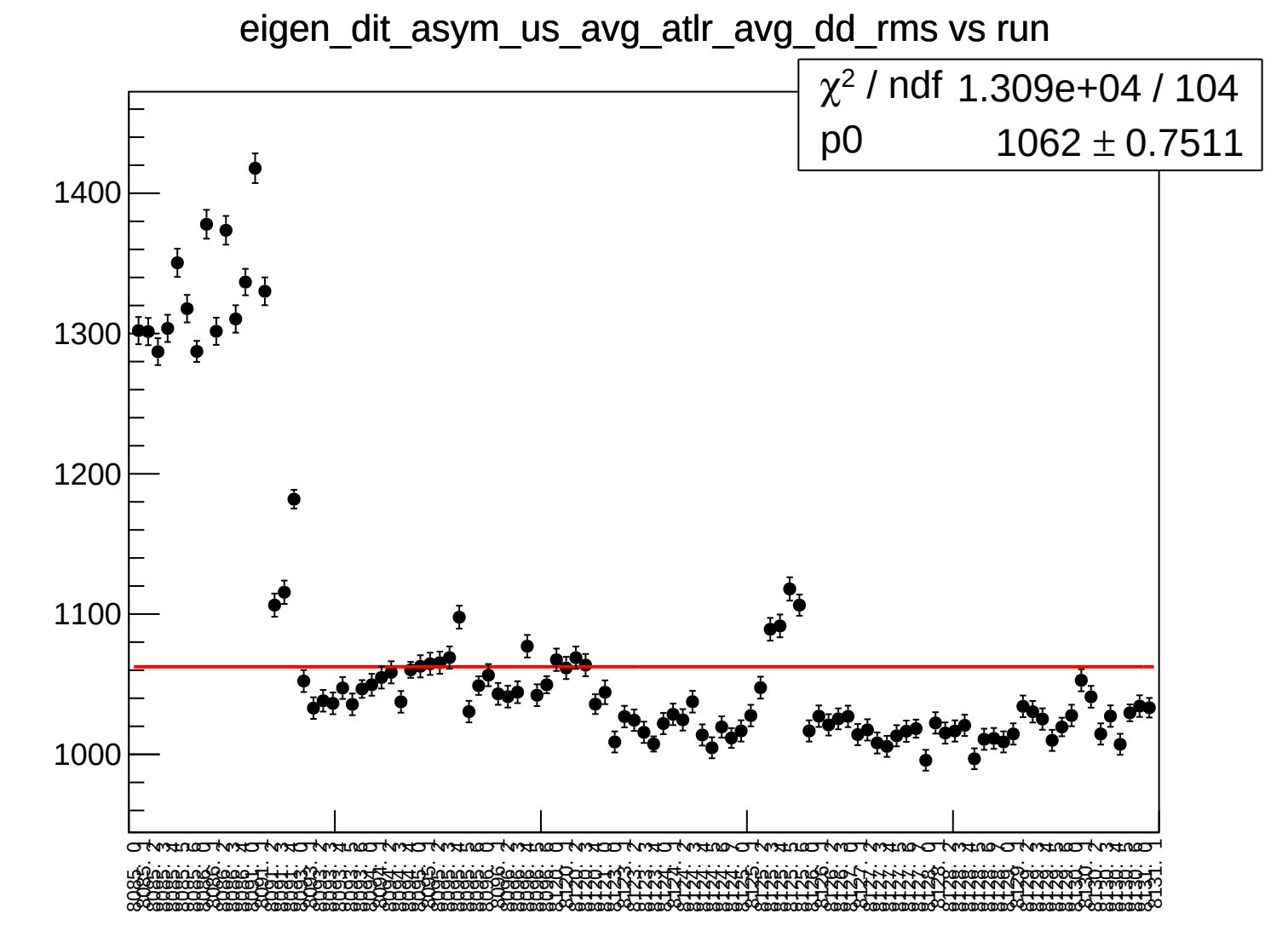

asym_us_avg_atlr_avg_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 91.39 / 105
p0 −4383 ± 2841
100
50
0
−50
−100
−150
pull
Entries 106
Mean −51.64
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

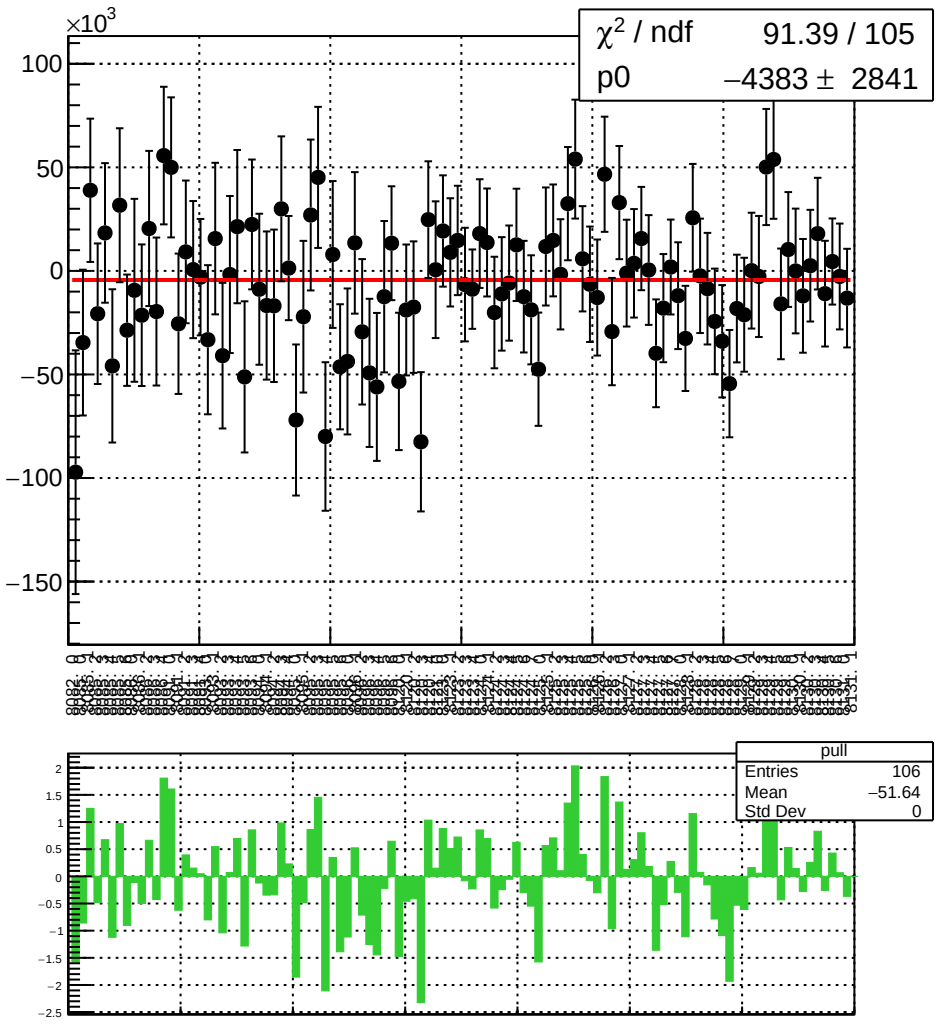

pull1D
Entries 106
Mean −0.02335
Std Dev 0.9282
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

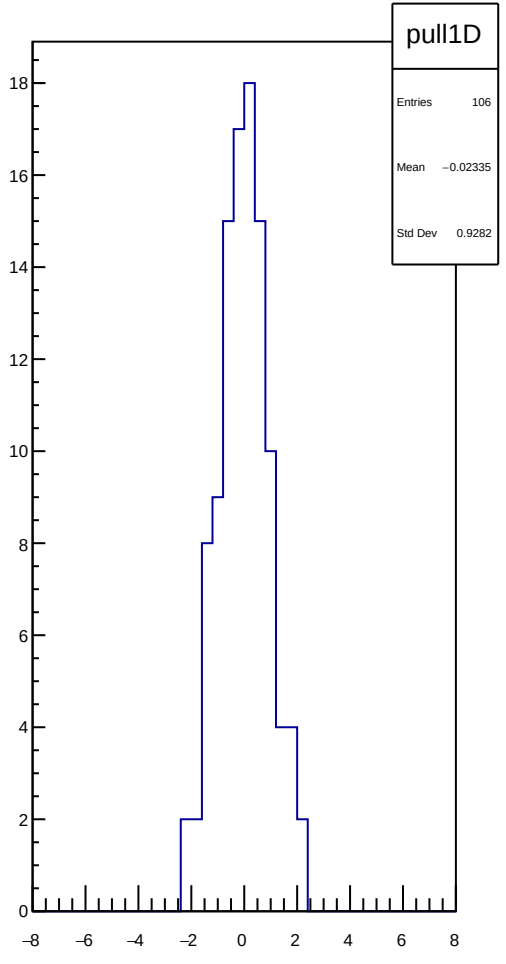

asym_us_avg_atlr_avg_dd_dit_correction_rms vs run
χ² / ndf 3.904e+04 / 105
p0 2830 ± 2.009
4400
4200
4000
3800
3600
3400
3200
3000
2800
2600
2400
2200

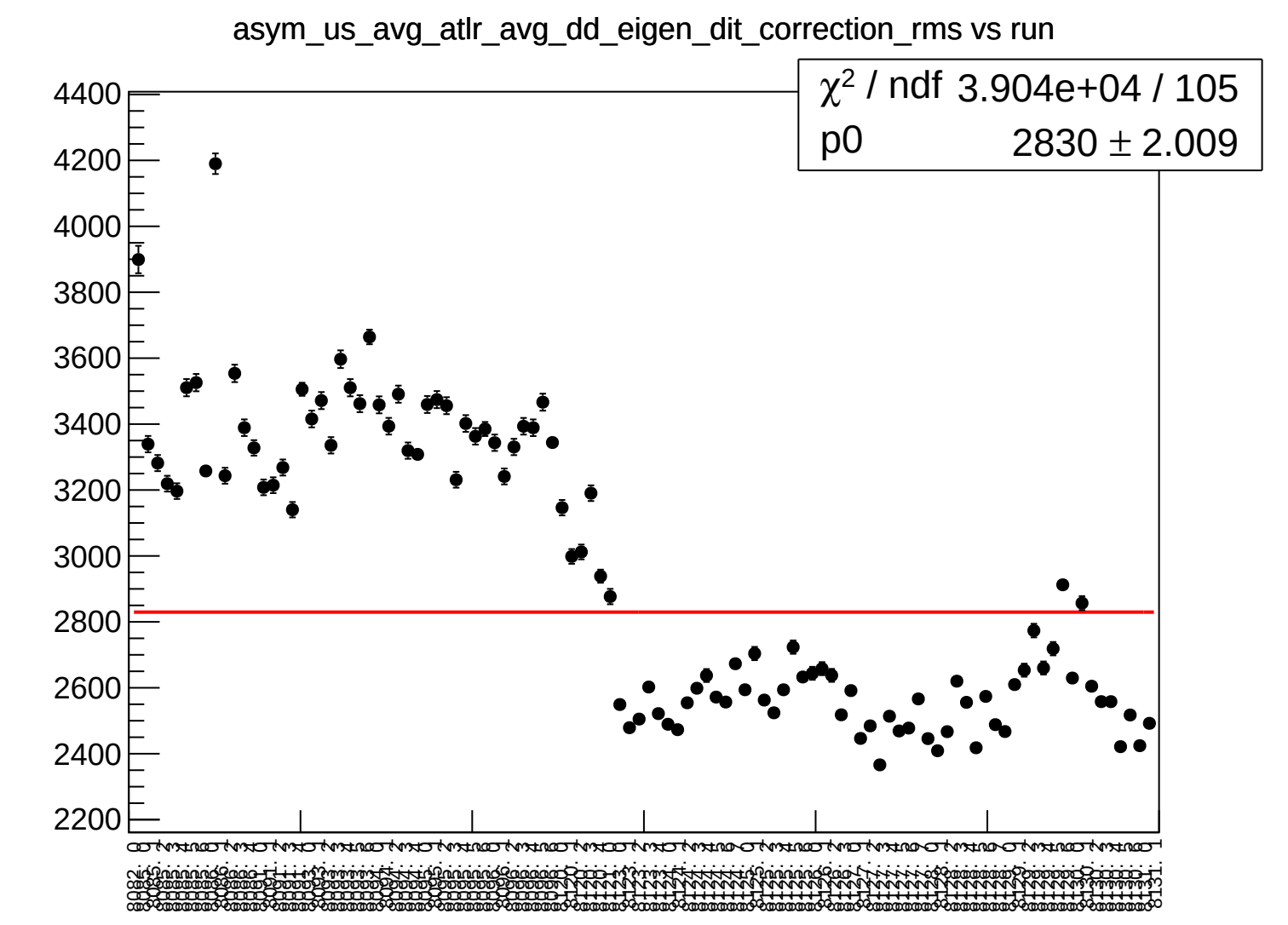

eigen_dit_asym_us_avg_atlr_avg_dd_mean vs run
χ² / ndf 87.97 / 104
p0 −1610 ± 1062
pull
Entries 105
Mean −259.3
Std Dev 0

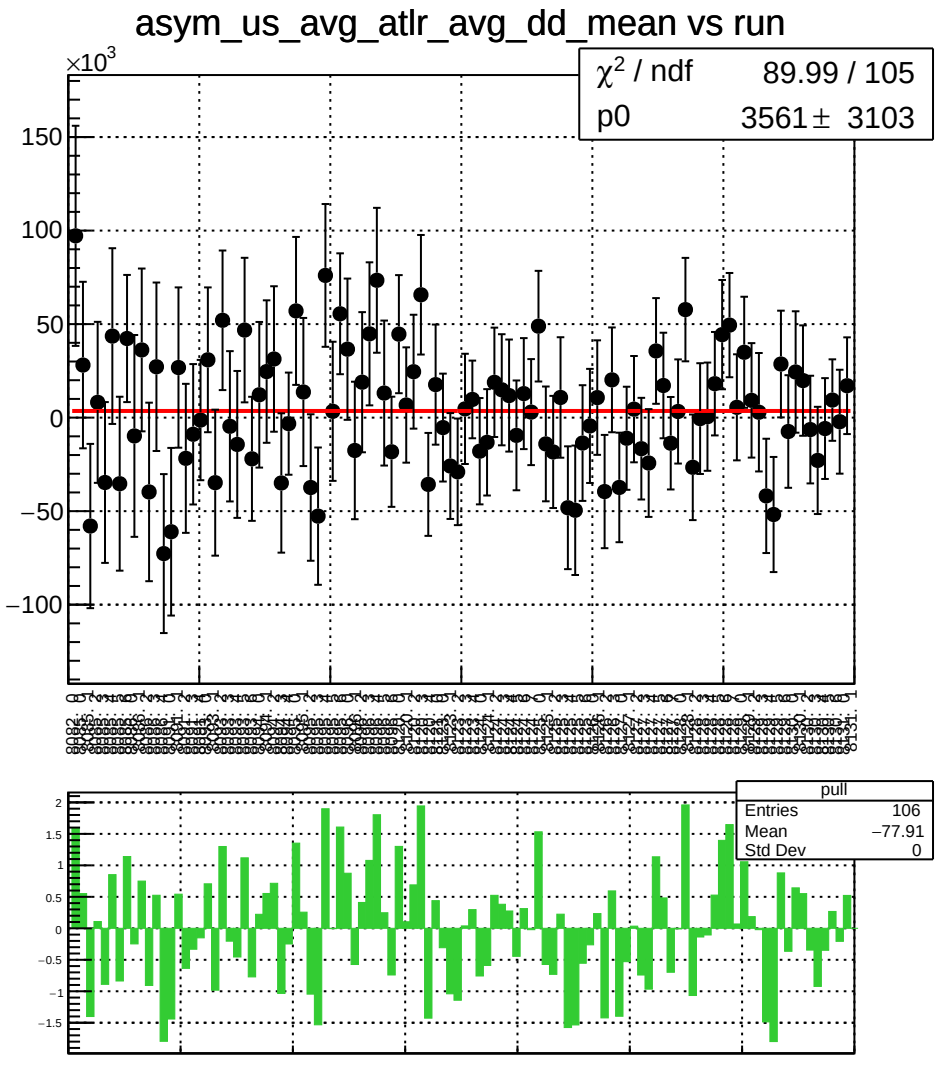

pull1D
Entries 105
Mean −0.01707
Std Dev 0.9151

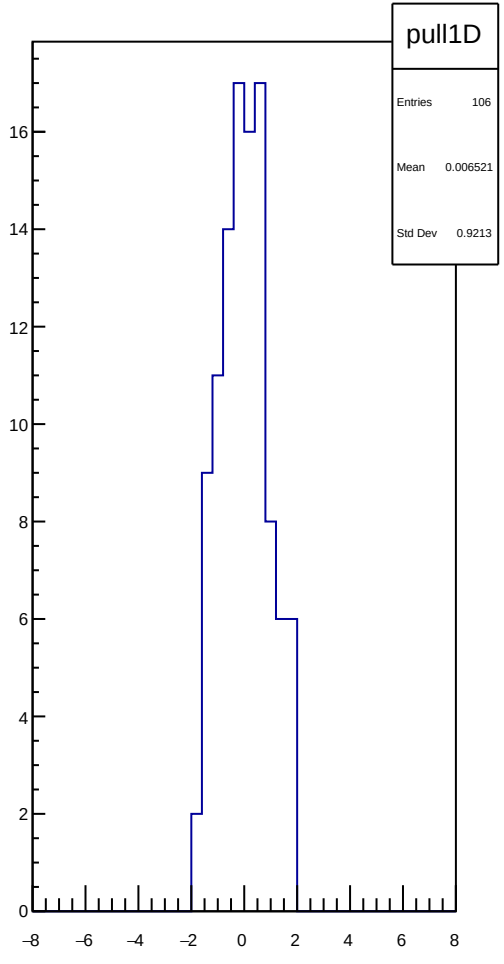

eigen_dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 1.309e+04 / 104
p0 1062 ± 0.7511
1400
1300
1200
1100
1000

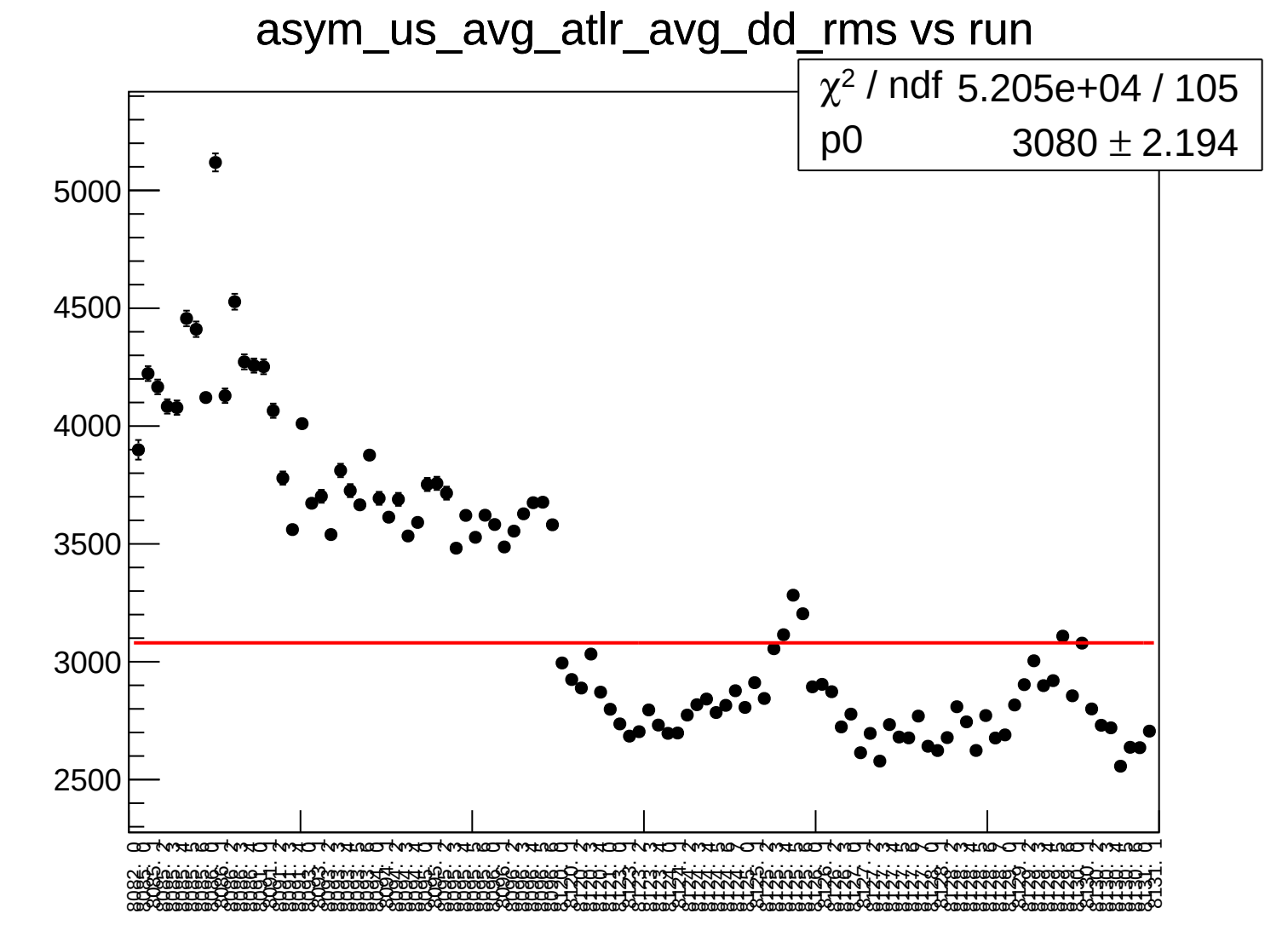

asym_us_avg_atlr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 91.39 / 105
p0 −4383 ± 2841
100
50
0
−50
−100
−150
pull
Entries 106
Mean −51.64
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

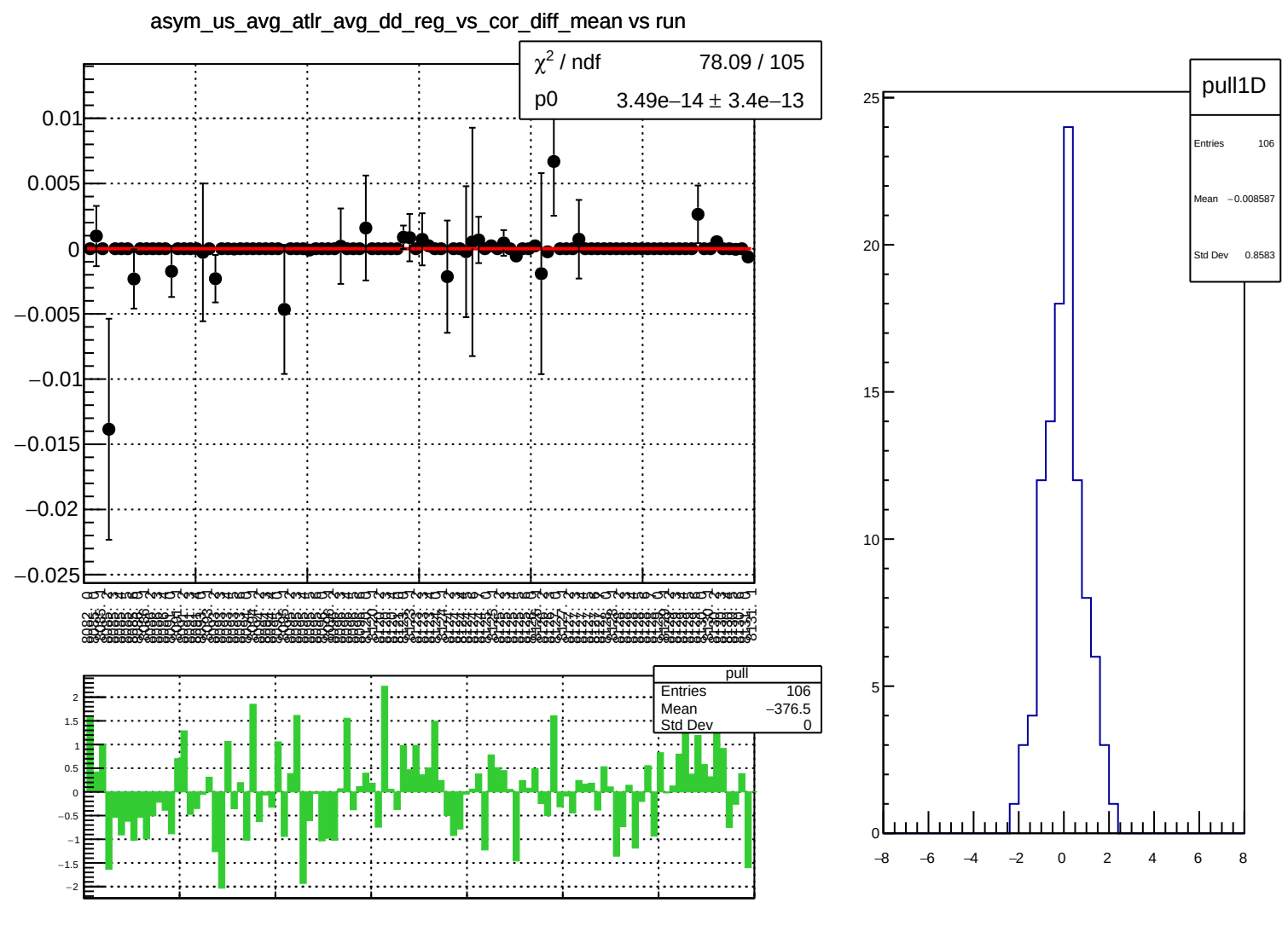

pull1D
Entries 106
Mean −0.02335
Std Dev 0.9282
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

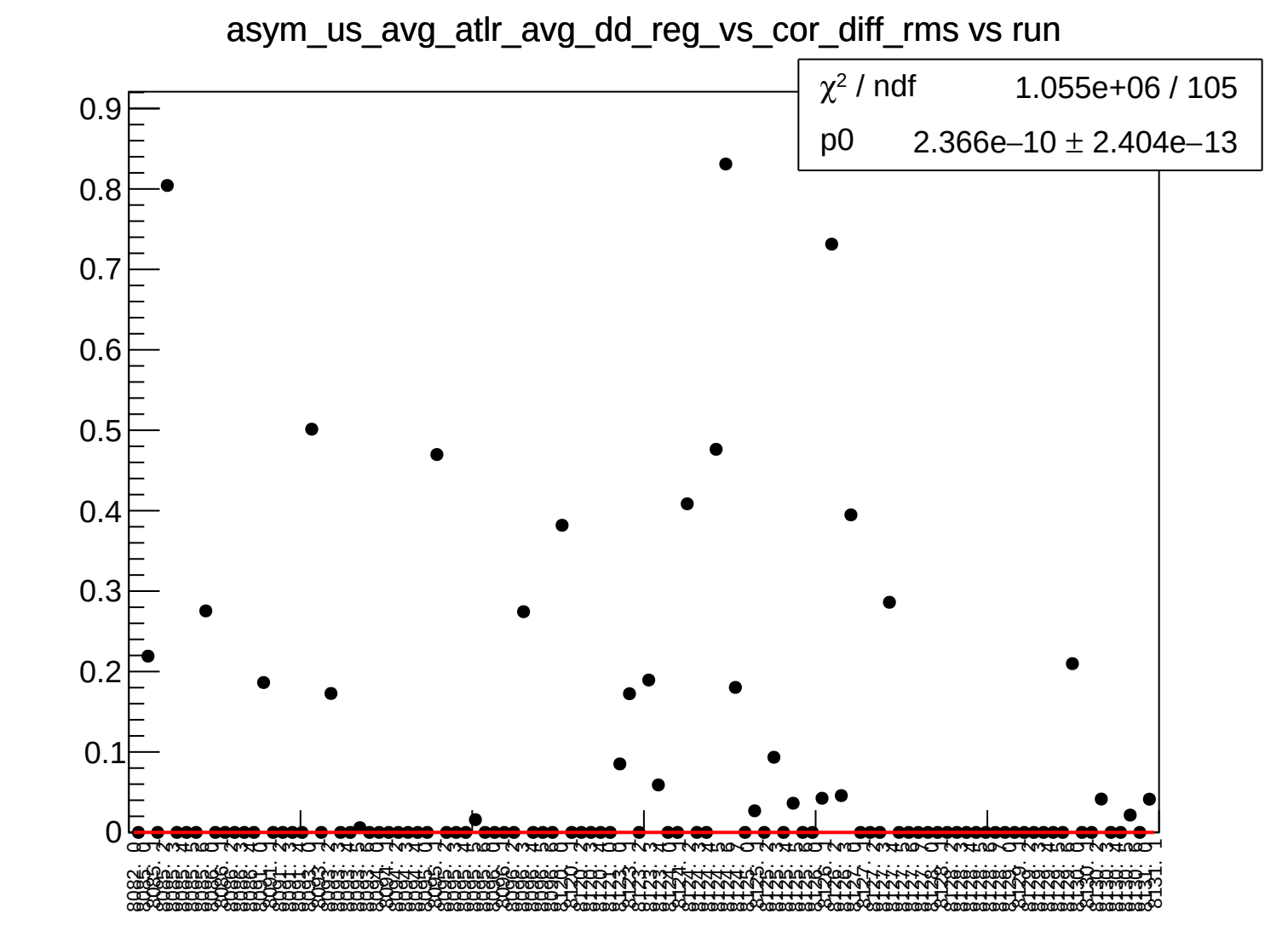

asym_us_avg_atlr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.904e+04 / 105
p0 2830 ± 2.009
4400
4200
4000
3800
3600
3400
3200
3000
2800
2600
2400
2200

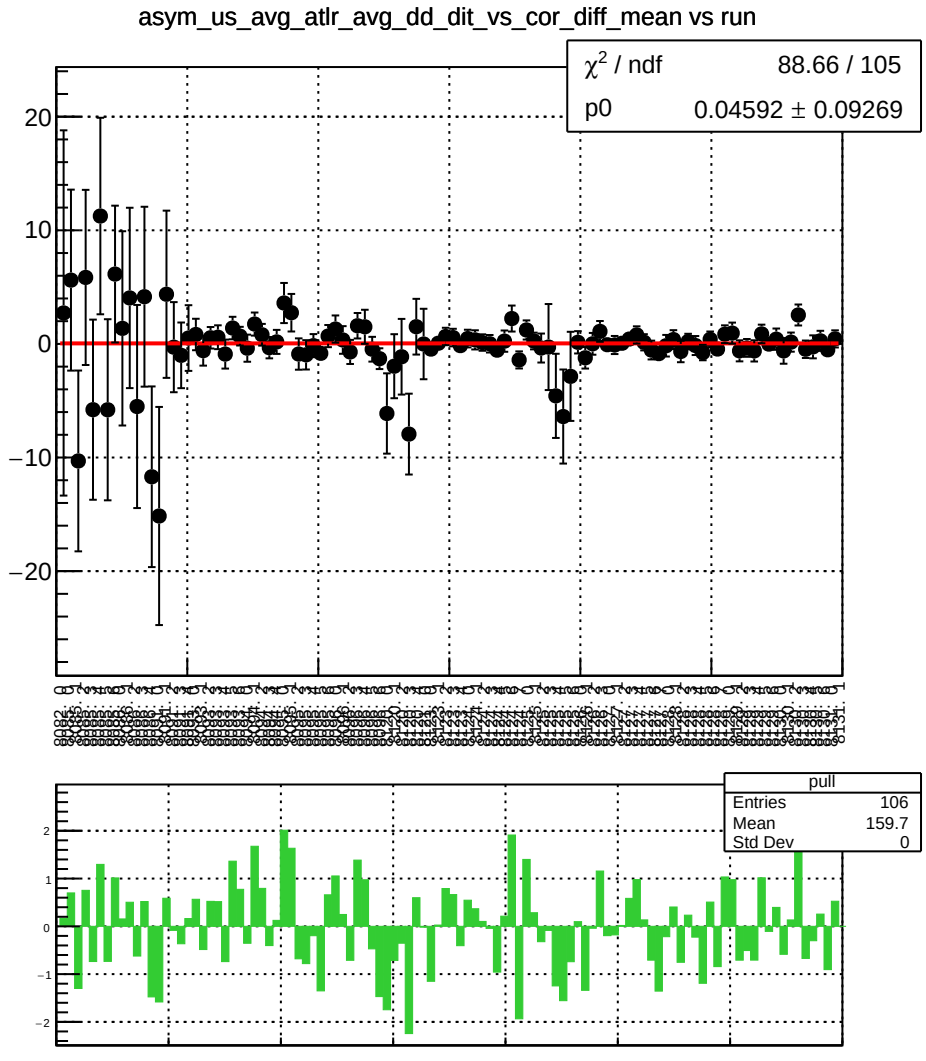

asym_us_avg_atlr_avg_dd_mean vs run
×10^3
χ^2 / ndf 89.99 / 105
p0 3561 ± 3103
150
100
50
0
−50
−100
pull
Entries 106
Mean −77.91
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

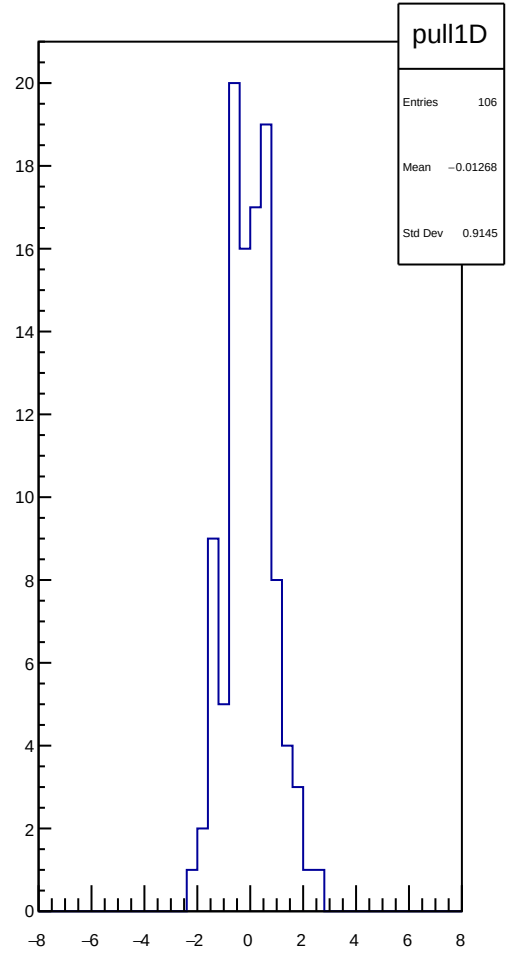

pull1D
Entries 106
Mean 0.006521
Std Dev 0.9213
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

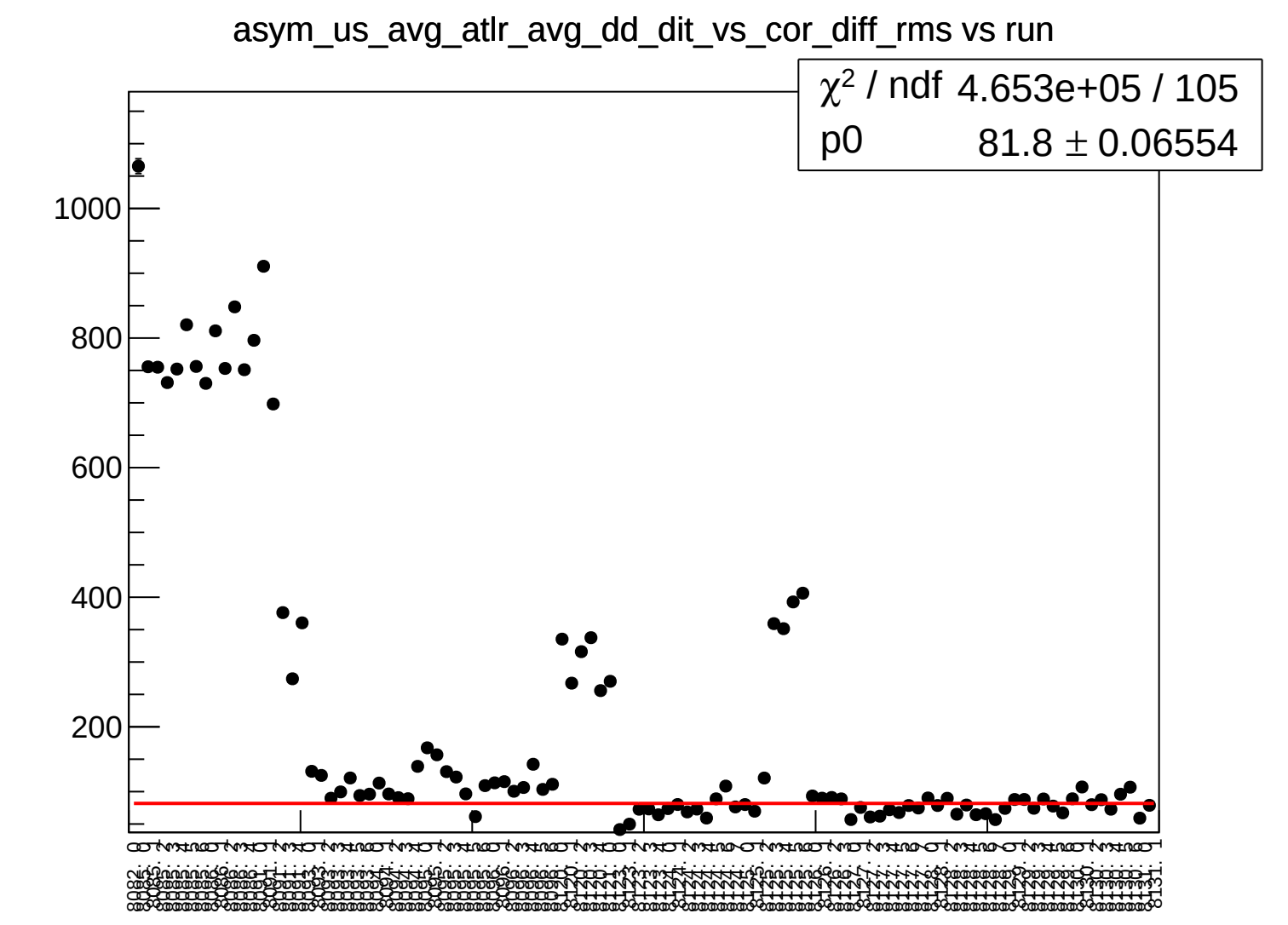

asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 5.205e+04 / 105
p0 3080 ± 2.194
5000
4500
4000
3500
3000
2500

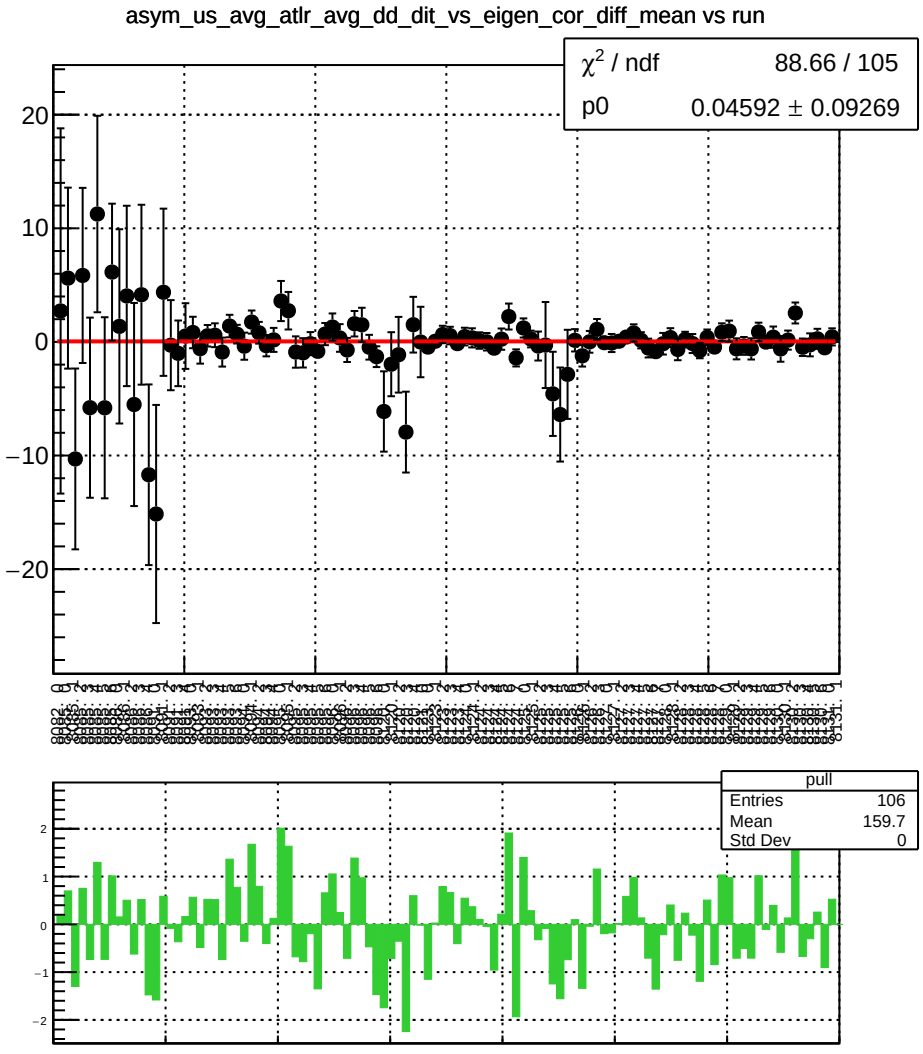

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 78.09 / 105
p0 3.49e−14 ± 3.4e−13
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
−0.025
pull
Entries 106
Mean −376.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 106
Mean −0.008587
Std Dev 0.8583
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

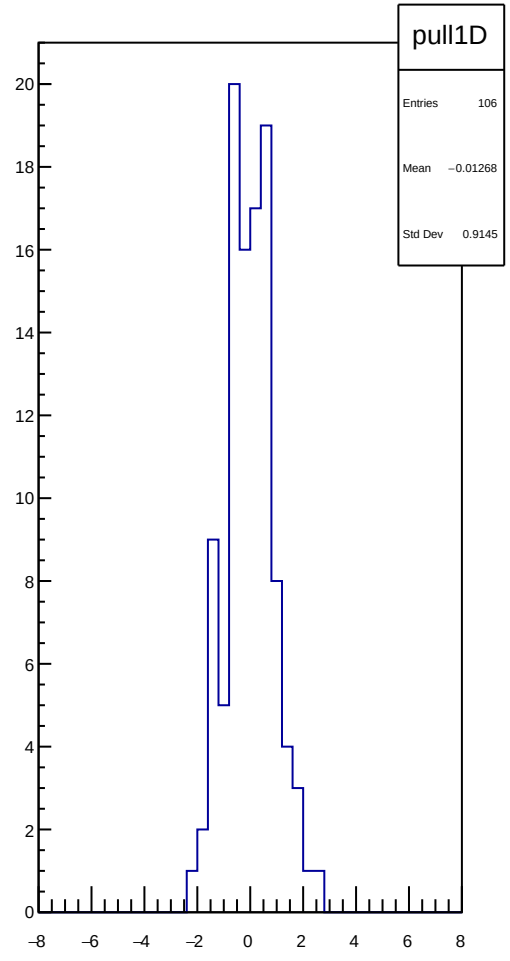

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.055e+06 / 105
p0 2.366e−10 ± 2.404e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

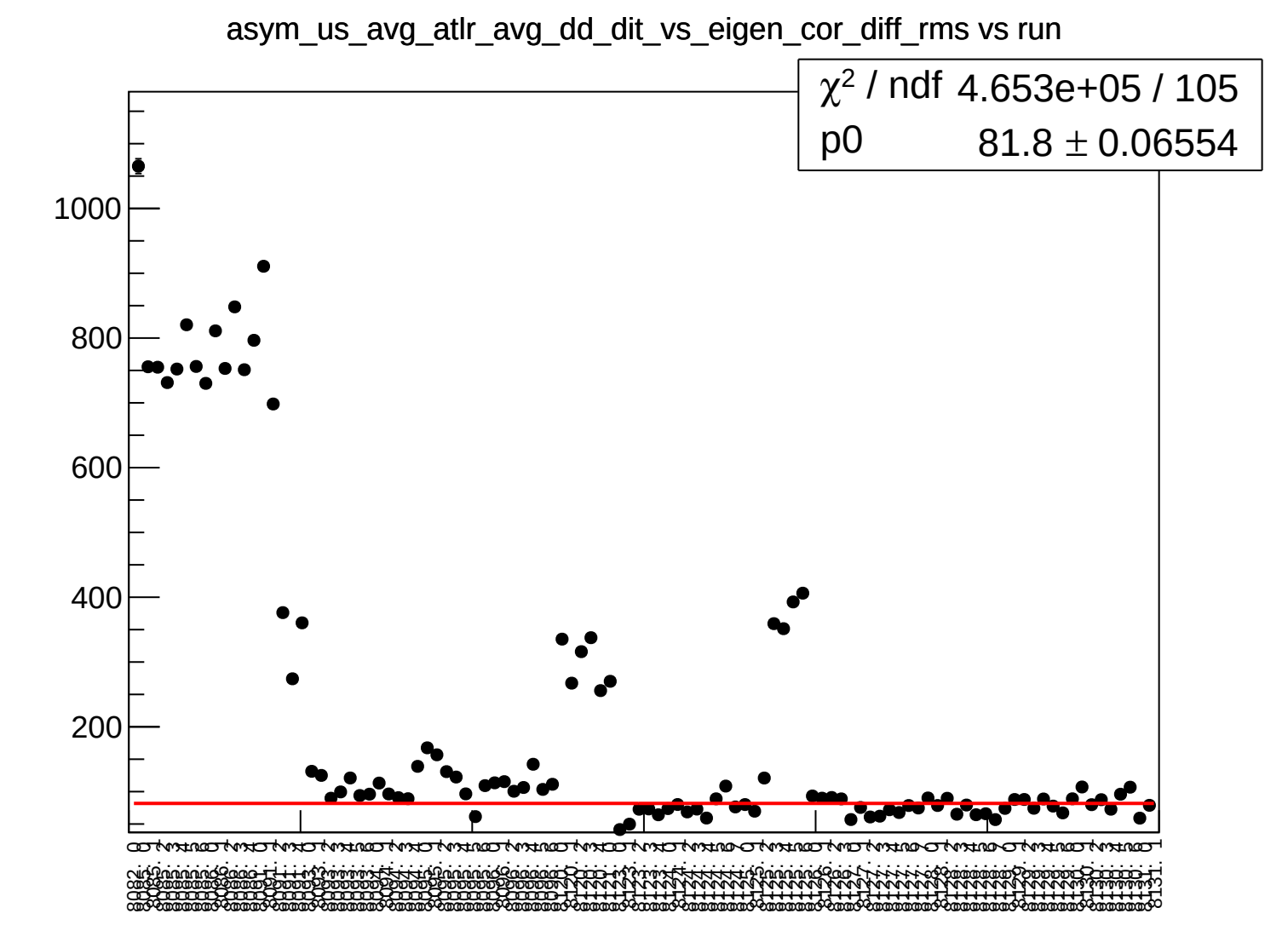

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 88.66 / 105
p0 0.04592 ± 0.09269
pull
Entries 106
Mean 159.7
Std Dev 0

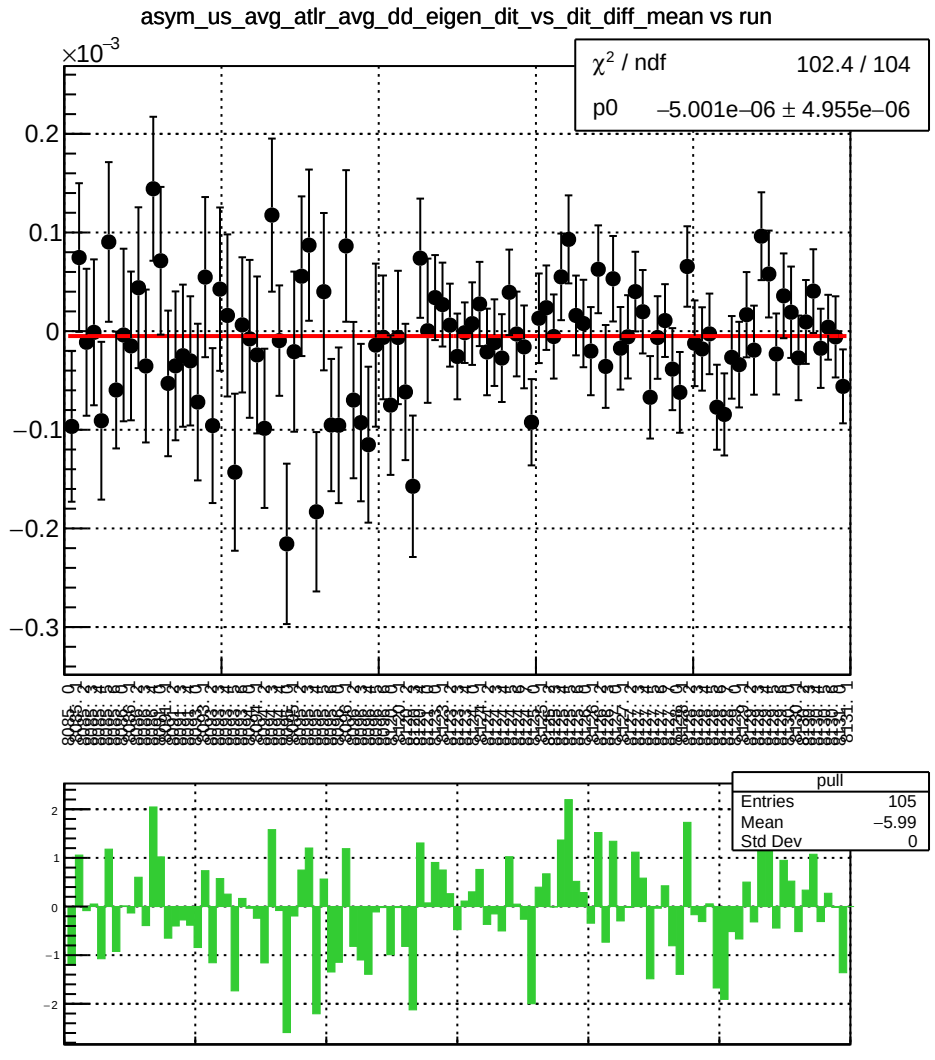

pull1D
Entries 106
Mean −0.01268
Std Dev 0.9145

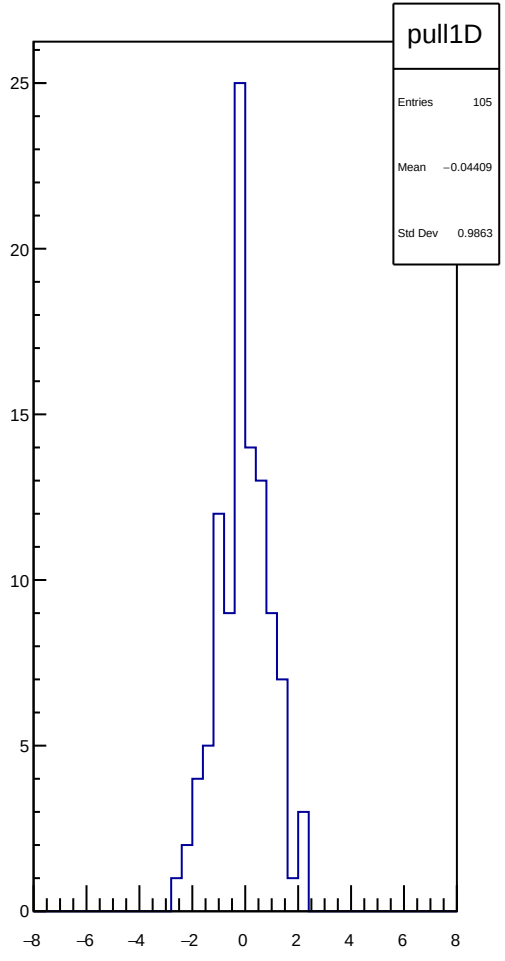

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.653e+05 / 105
p0 81.8 ± 0.06554
1000
800
600
400
200

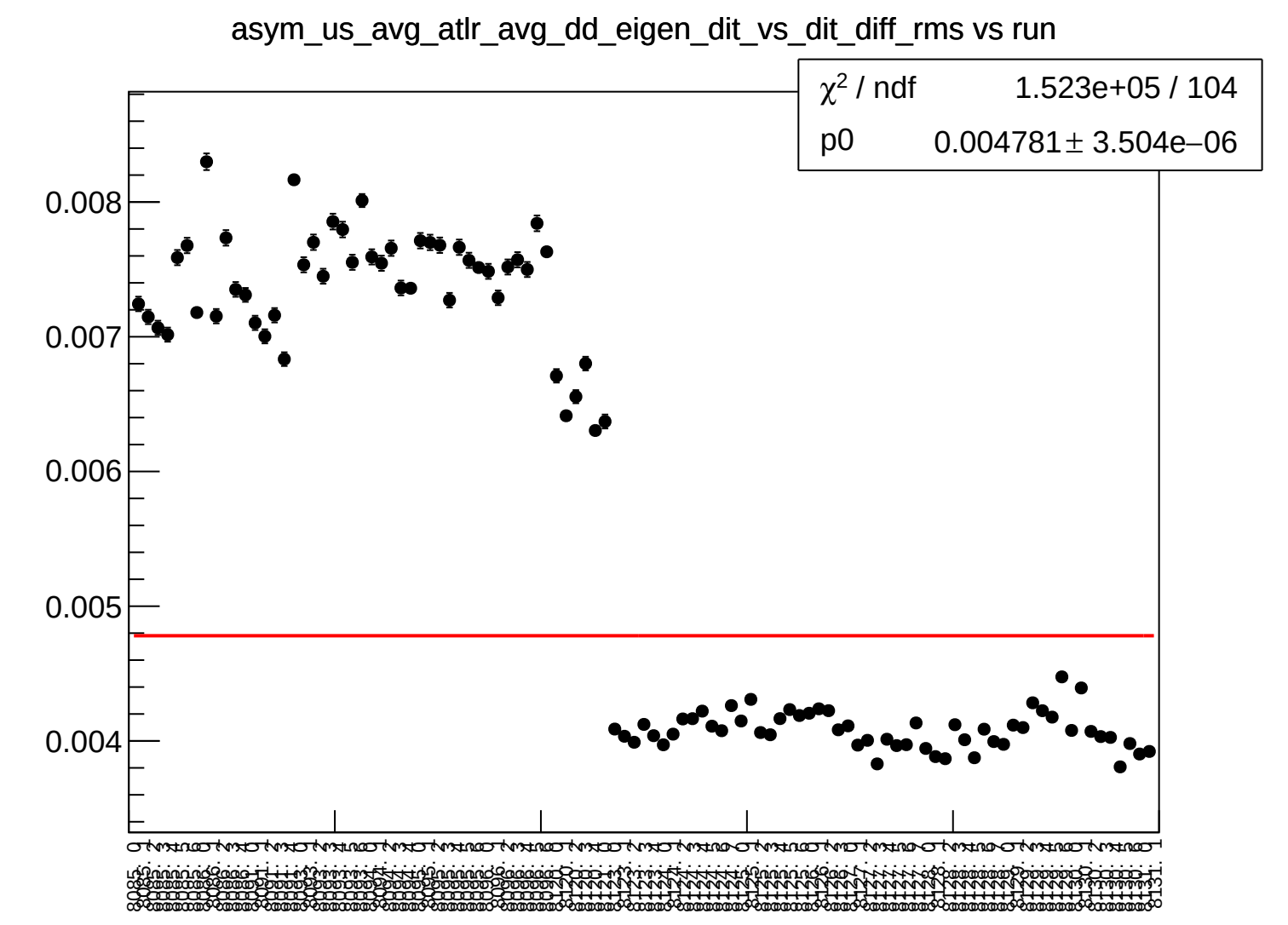

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.66 / 105
p0 0.04592 ± 0.09269
pull
Entries 106
Mean 159.7
Std Dev 0

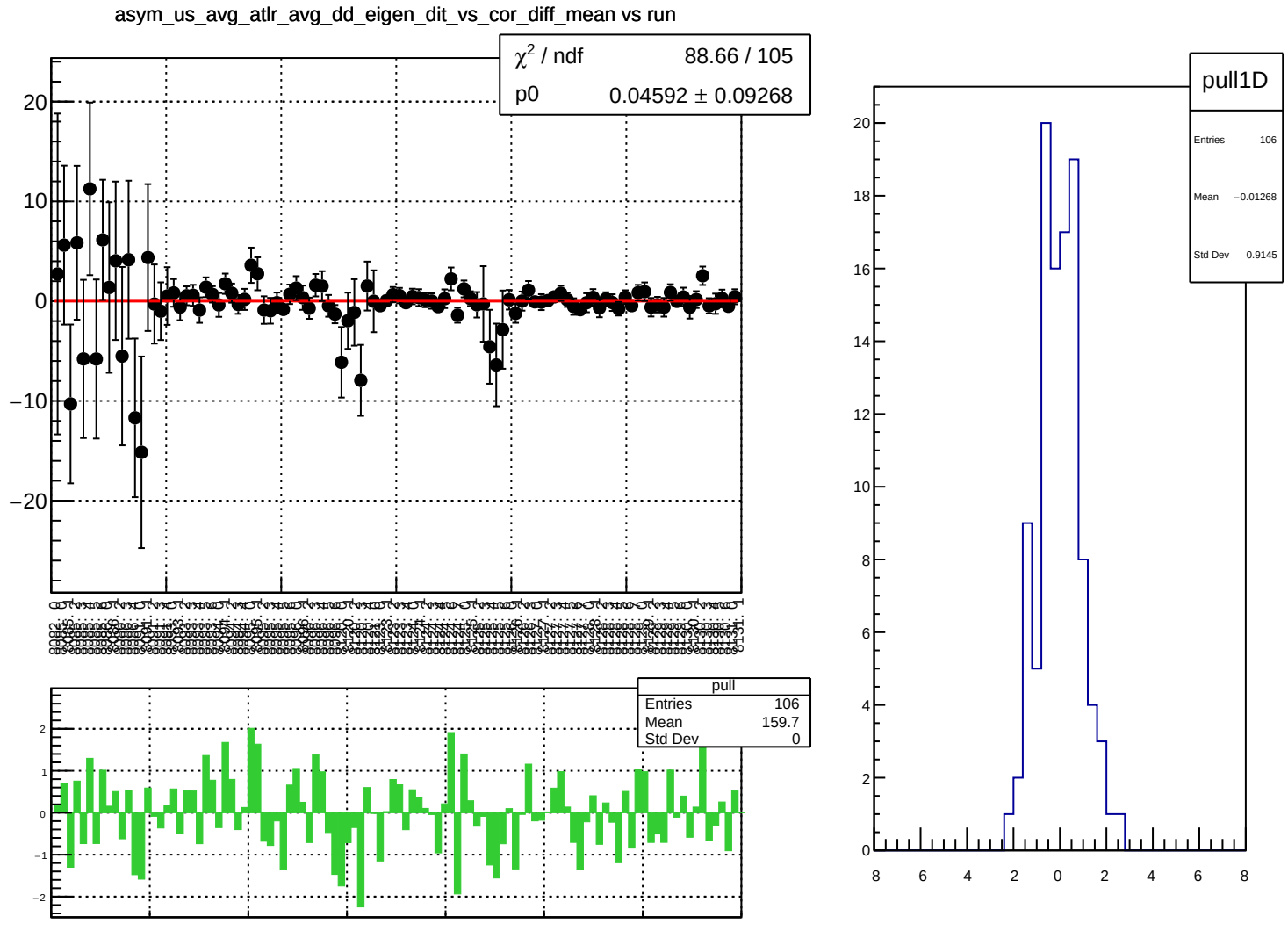

pull1D
Entries 106
Mean −0.01268
Std Dev 0.9145

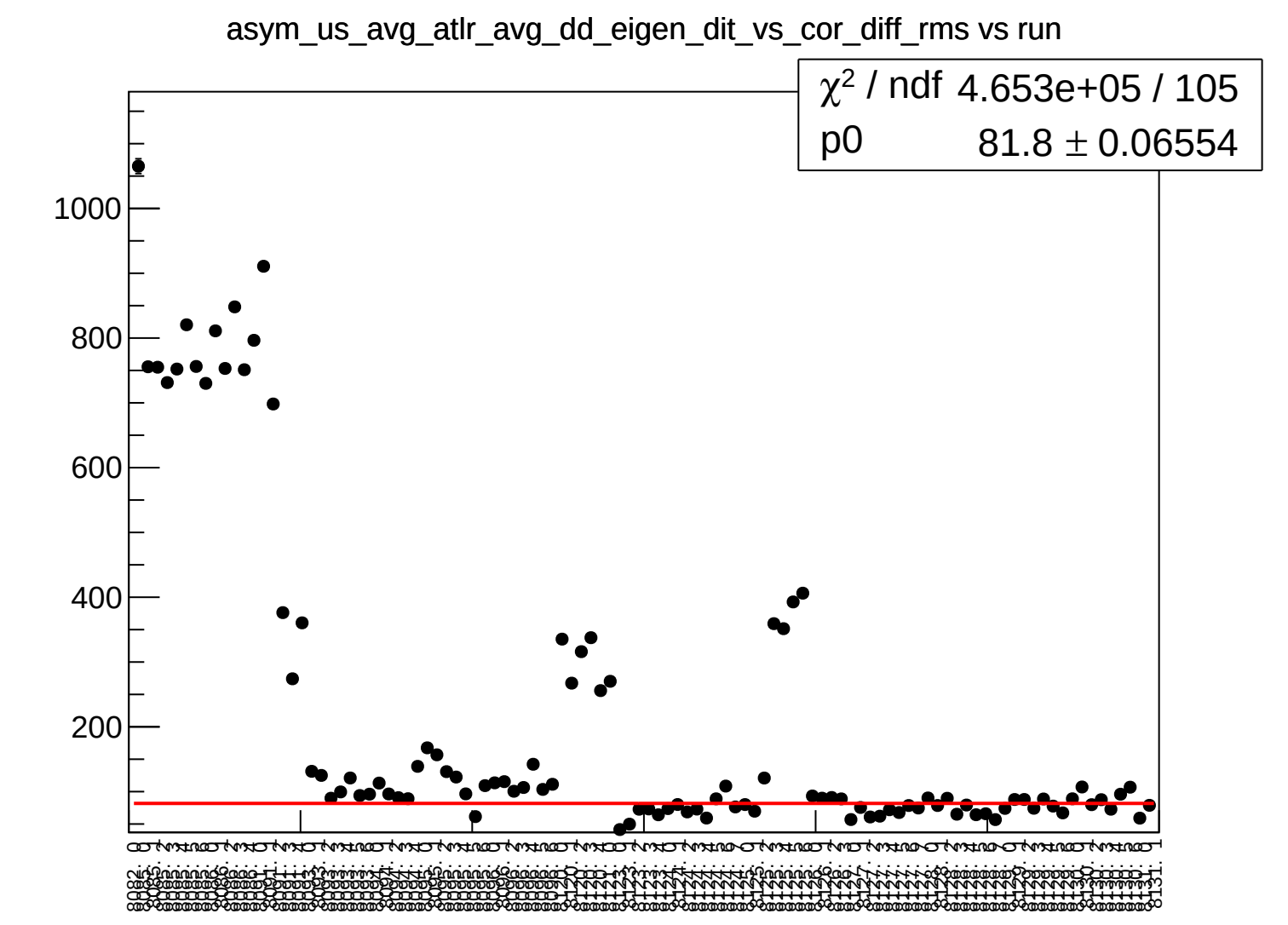

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.653e+05 / 105
p0 81.8 ± 0.06554
1000
800
600
400
200

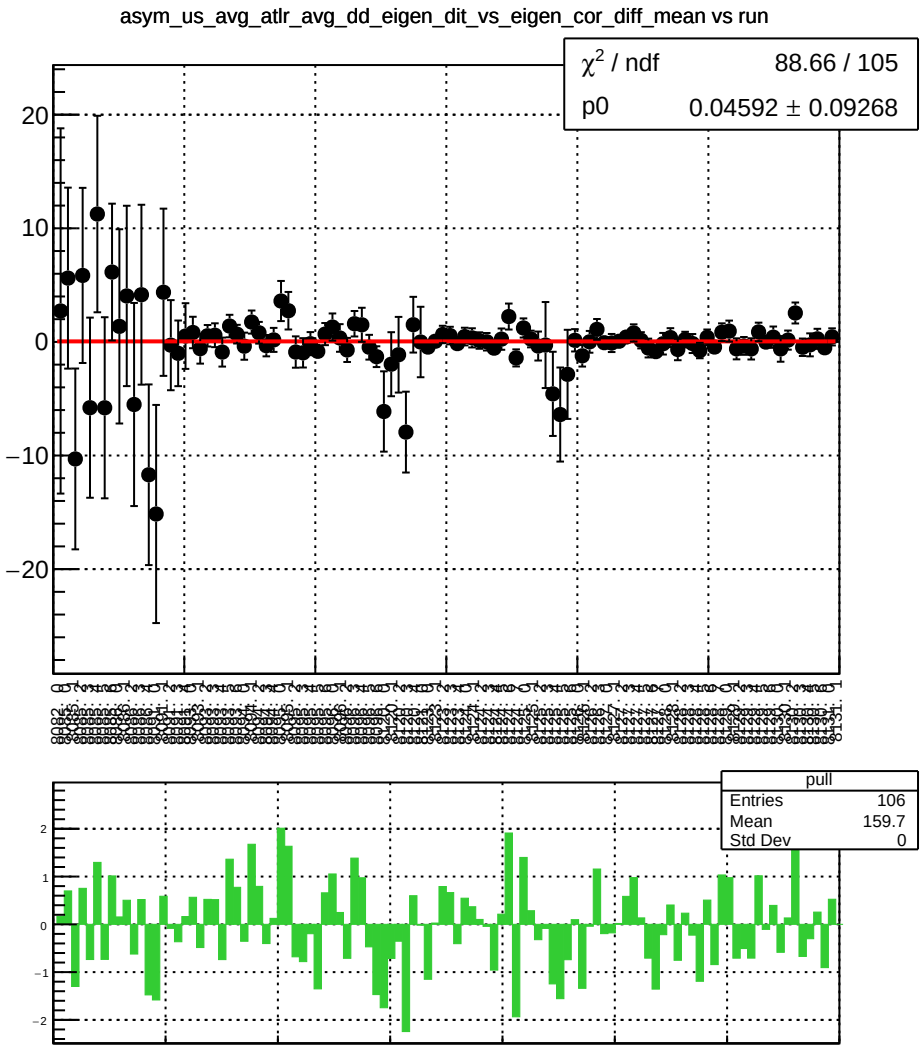

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 102.4 / 104
p0 −5.001e−06 ± 4.955e−06
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 105
Mean −5.99
Std Dev 0
2
1
0
−1
−2

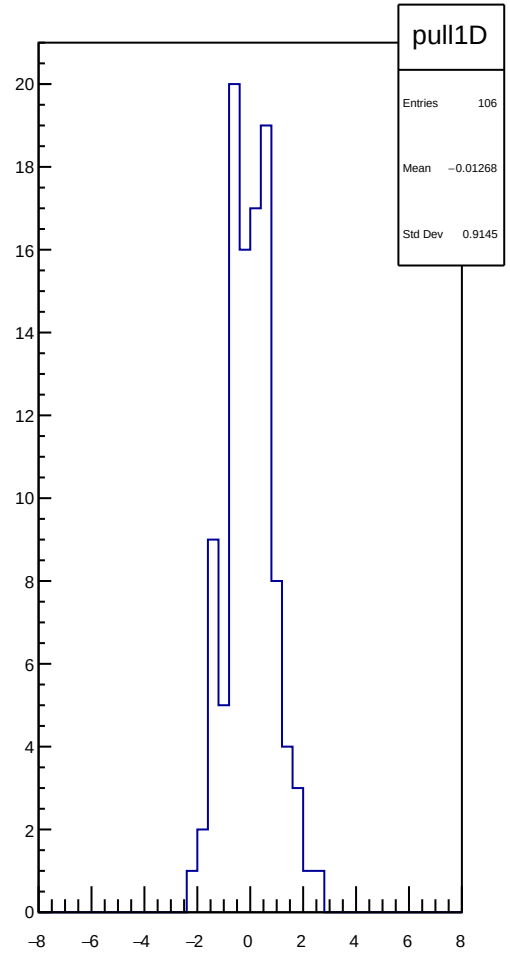

pull1D
Entries 105
Mean −0.04409
Std Dev 0.9863
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

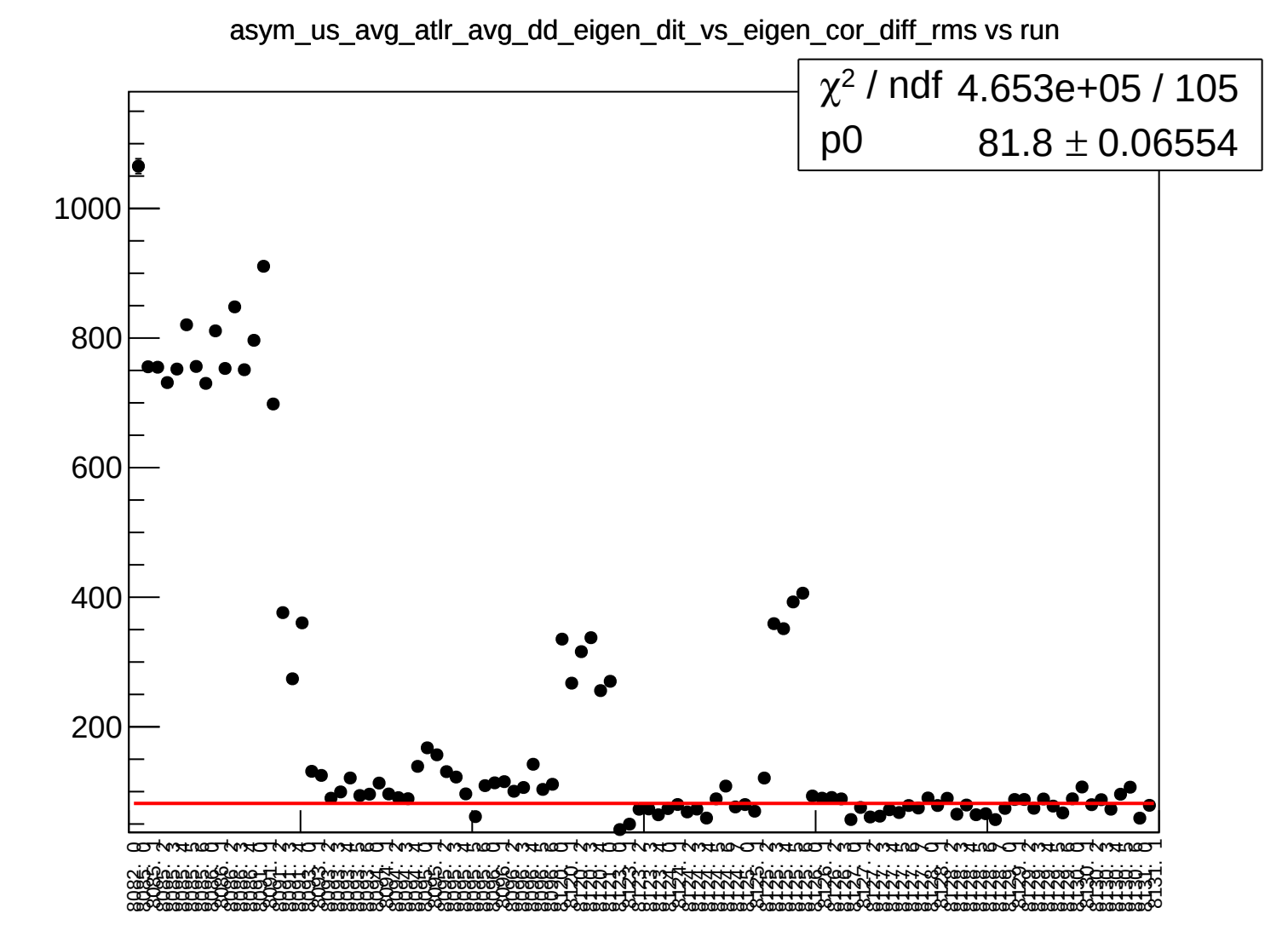

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.523e+05 / 104
p0 0.004781 ± 3.504e−06
0.008
0.007
0.006
0.005
0.004

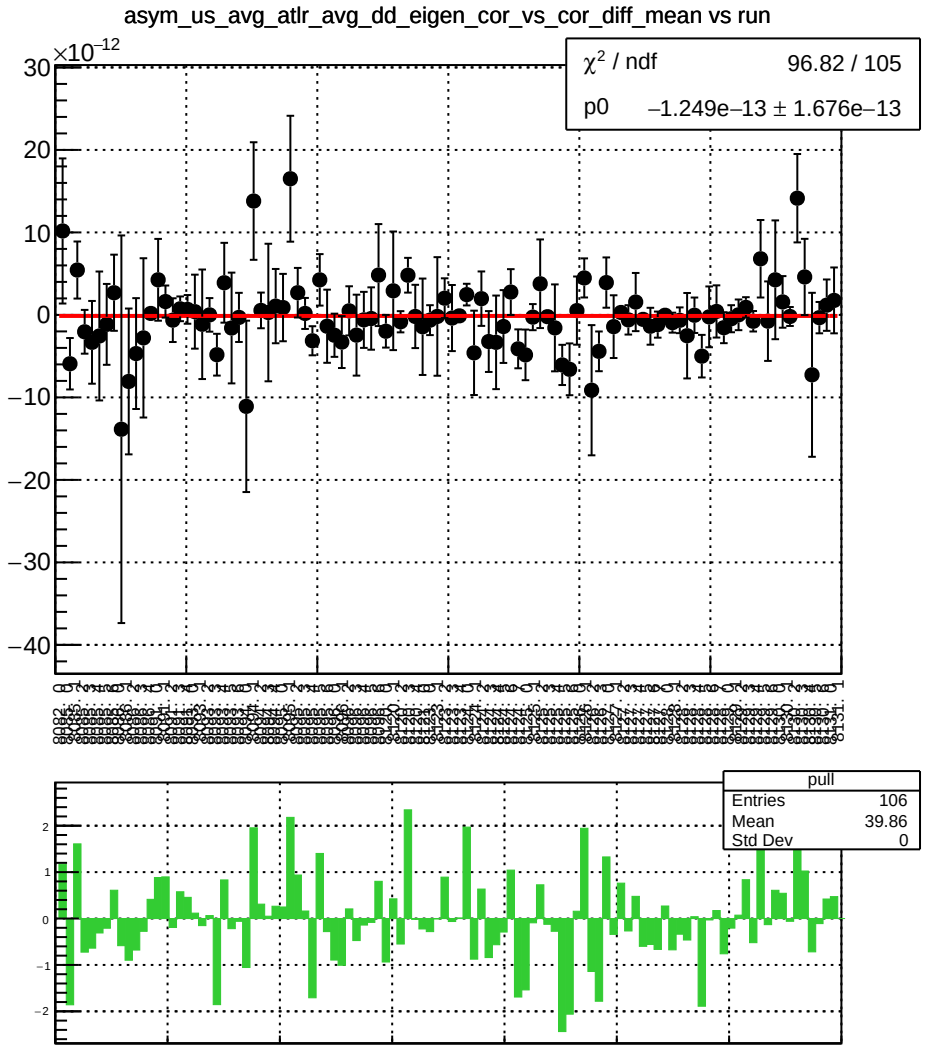

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.66 / 105
p0 0.04592 ± 0.09268
pull
Entries 106
Mean 159.7
Std Dev 0
pull1D
Entries 106
Mean −0.01268
Std Dev 0.9145

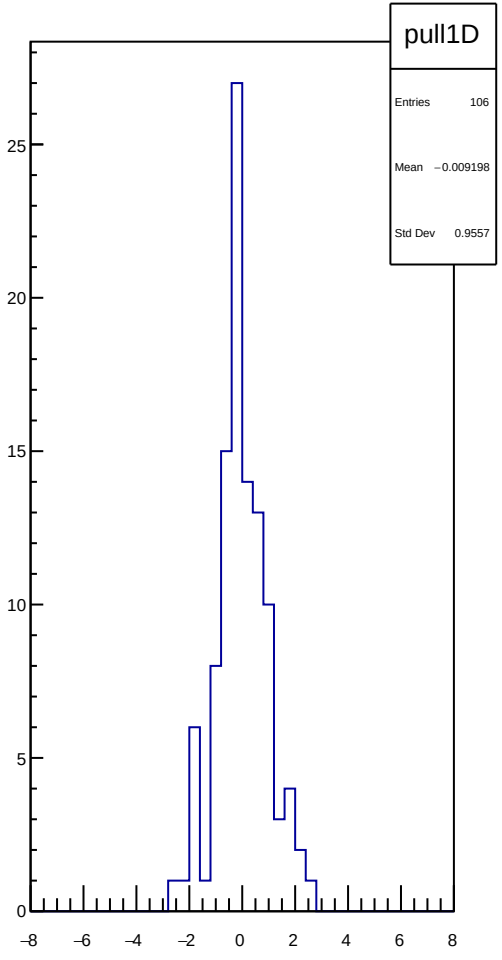

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.653e+05 / 105
p0 81.8 ± 0.06554
1000
800
600
400
200

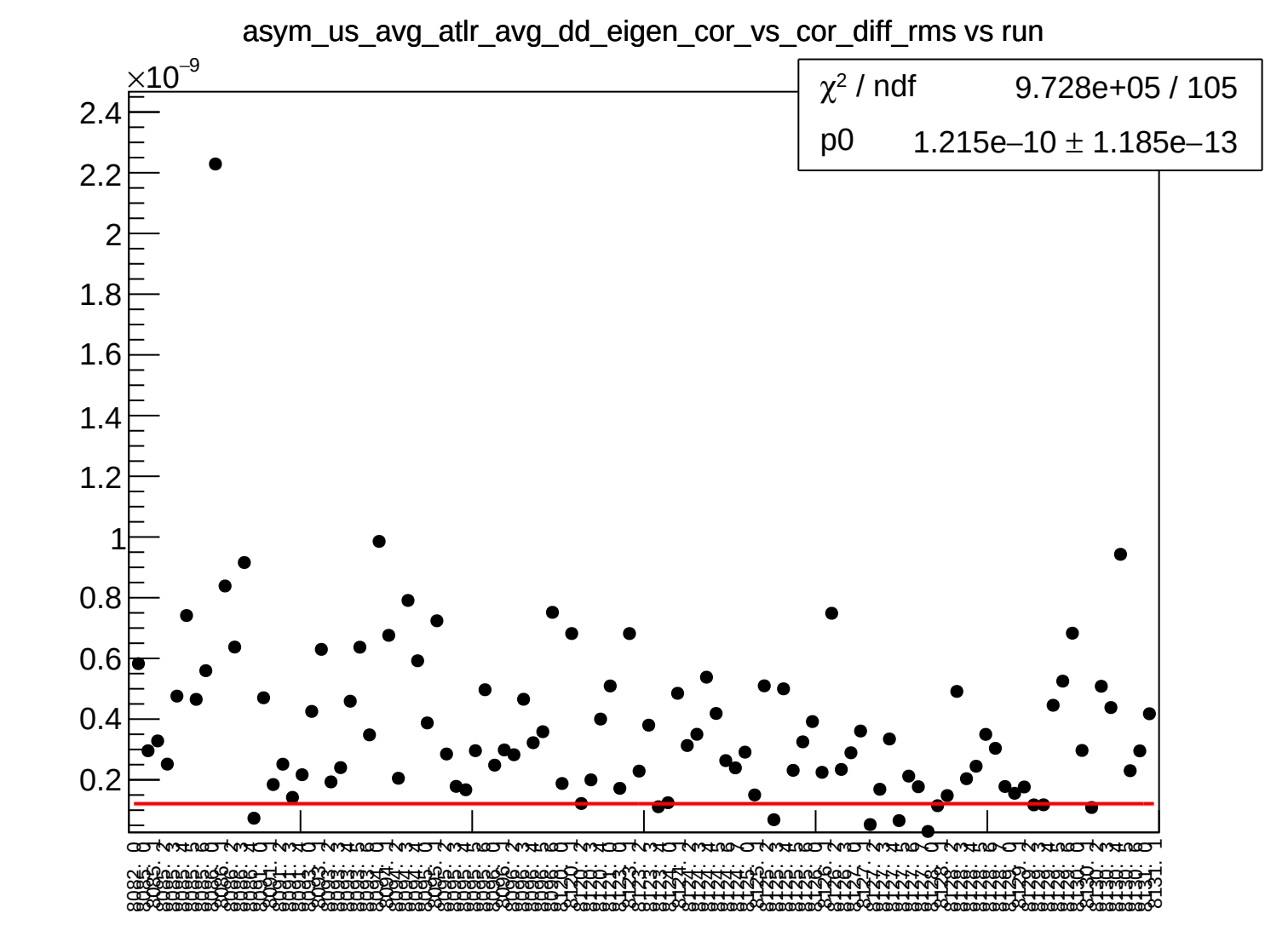

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.66 / 105
p0 0.04592 ± 0.09268
pull
Entries 106
Mean 159.7
Std Dev 0

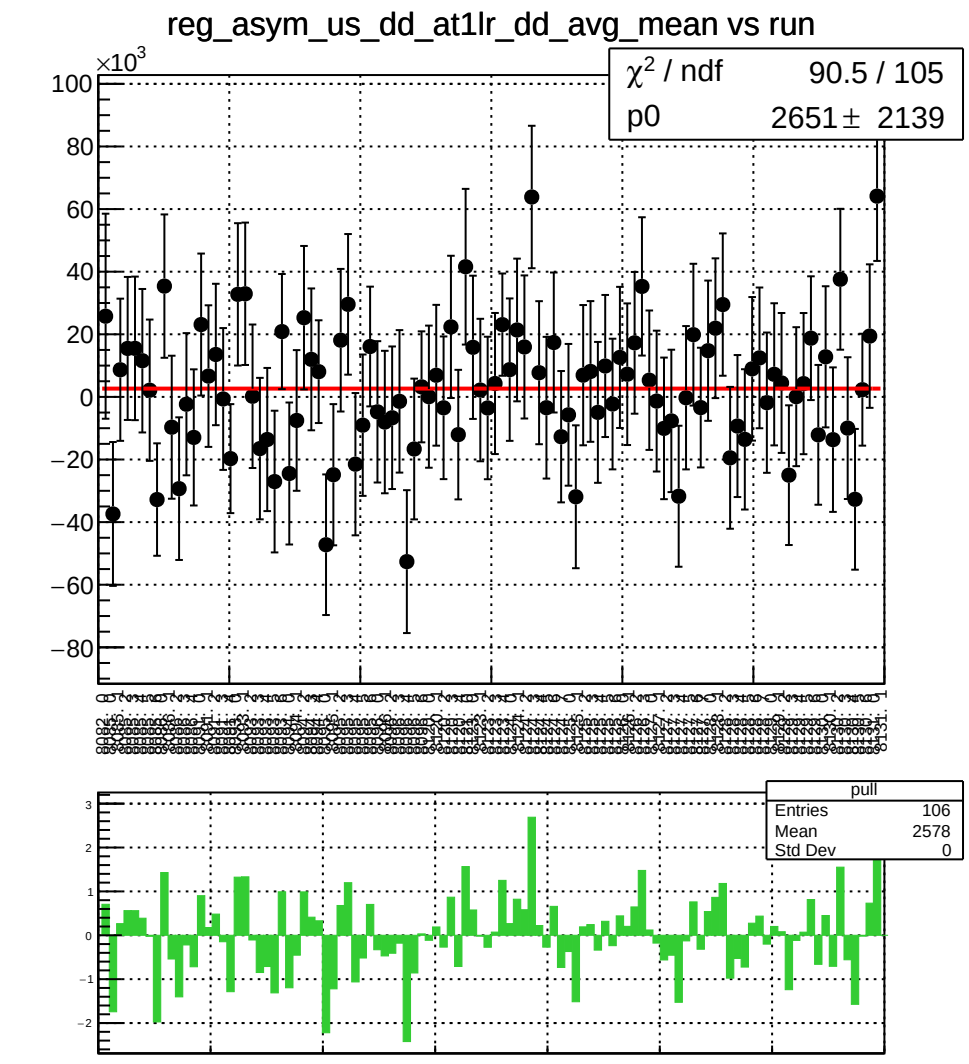

pull1D
Entries 106
Mean −0.01268
Std Dev 0.9145

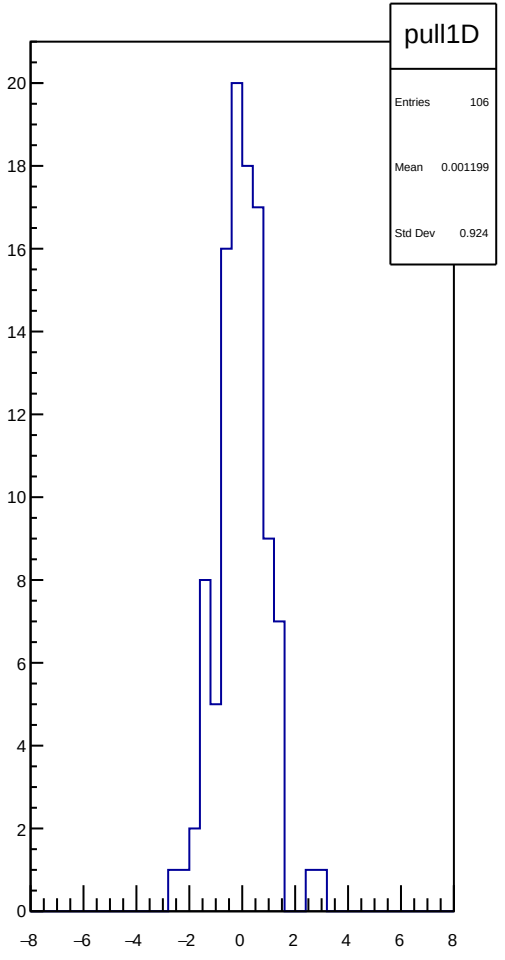

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.653e+05 / 105
p0 81.8 ± 0.06554
1000
800
600
400
200

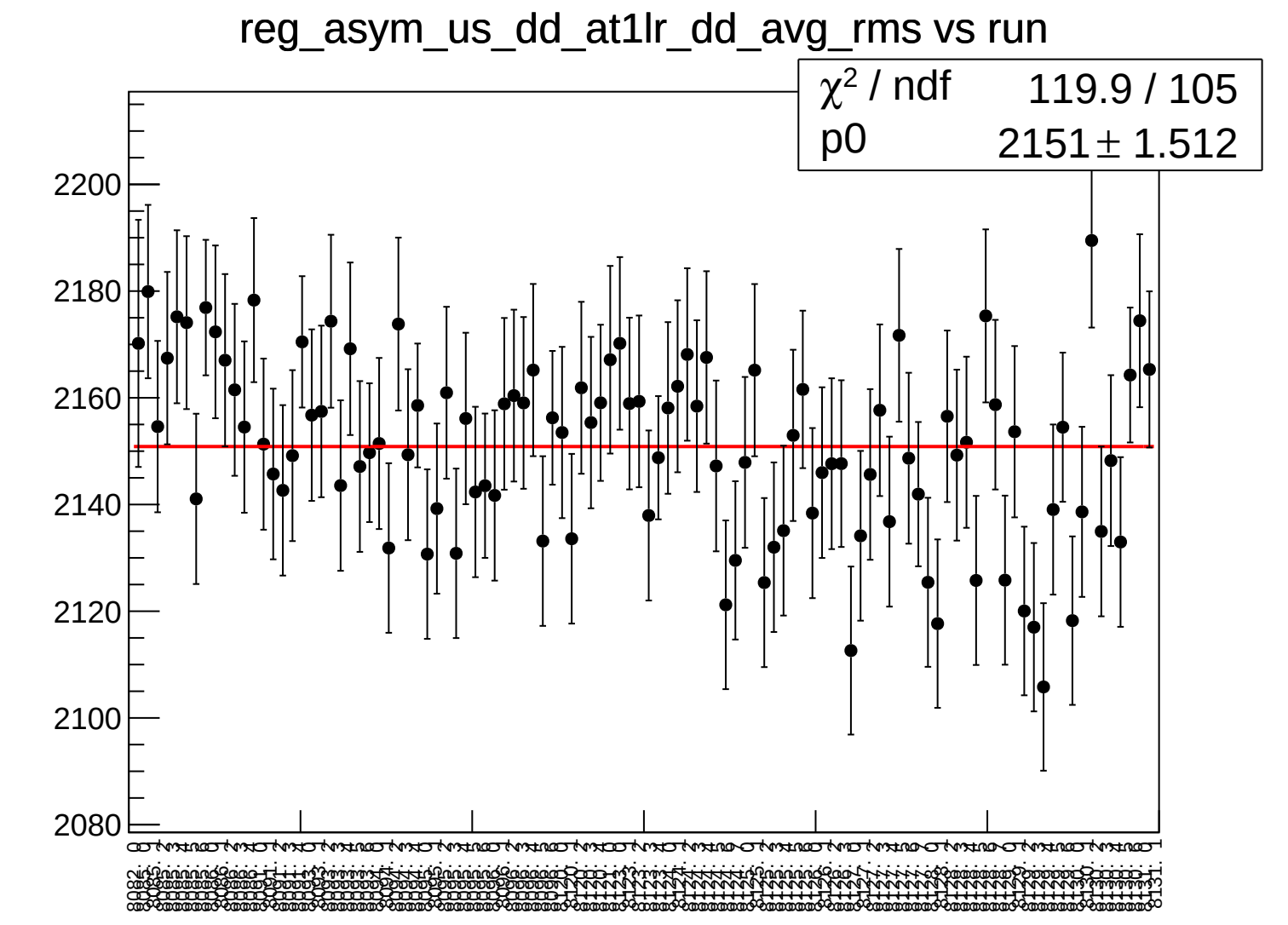

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.82 / 105
p0 −1.249e−13 ± 1.676e−13
pull
Entries 106
Mean 39.86
Std Dev 0

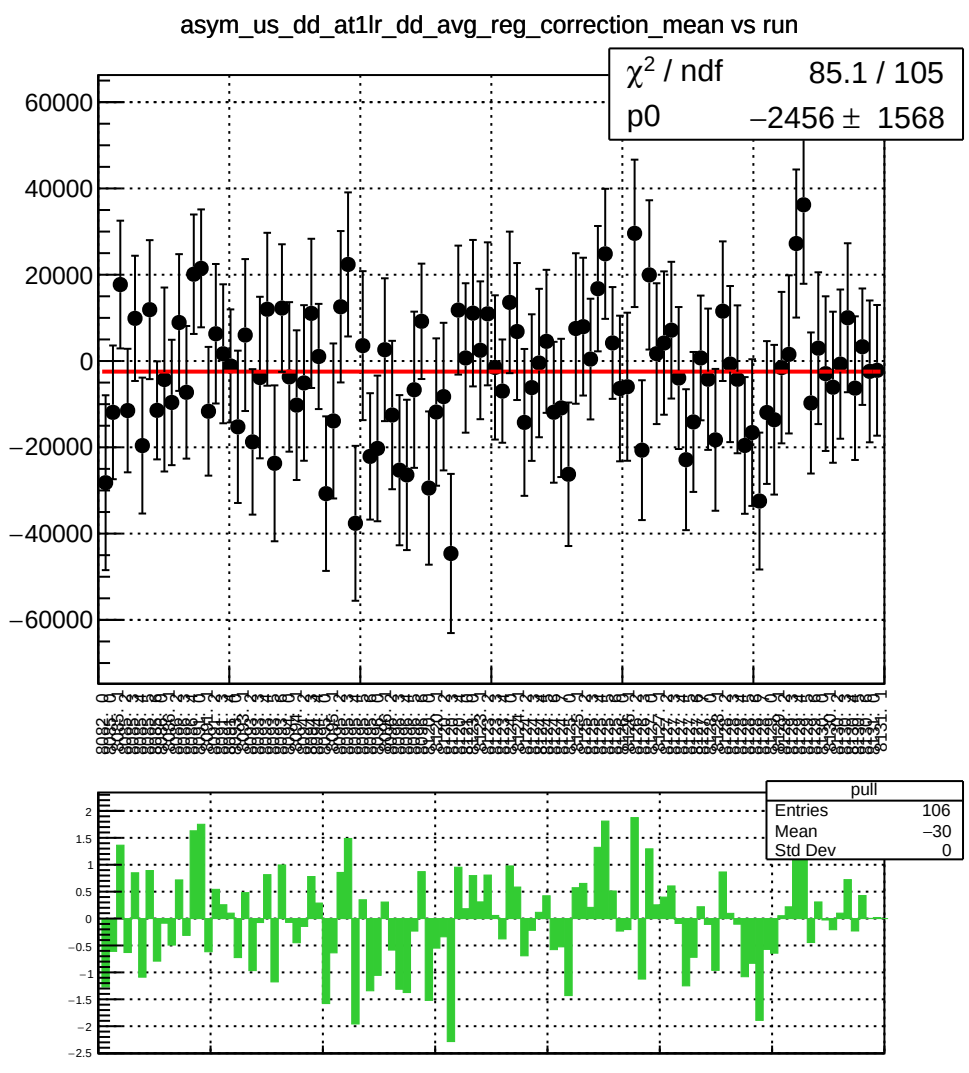

pull1D
Entries 106
Mean −0.009198
Std Dev 0.9557

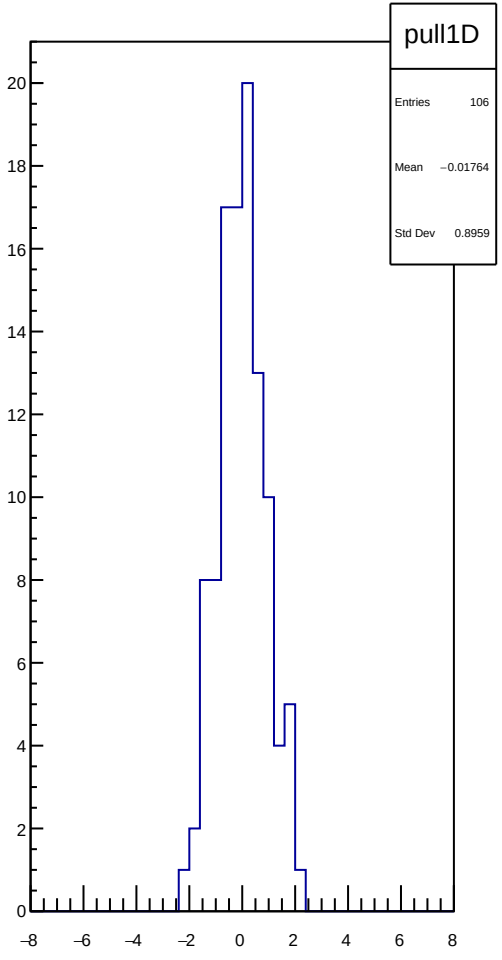

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.728e+05 / 105
p0 1.215e−10 ± 1.185e−13
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

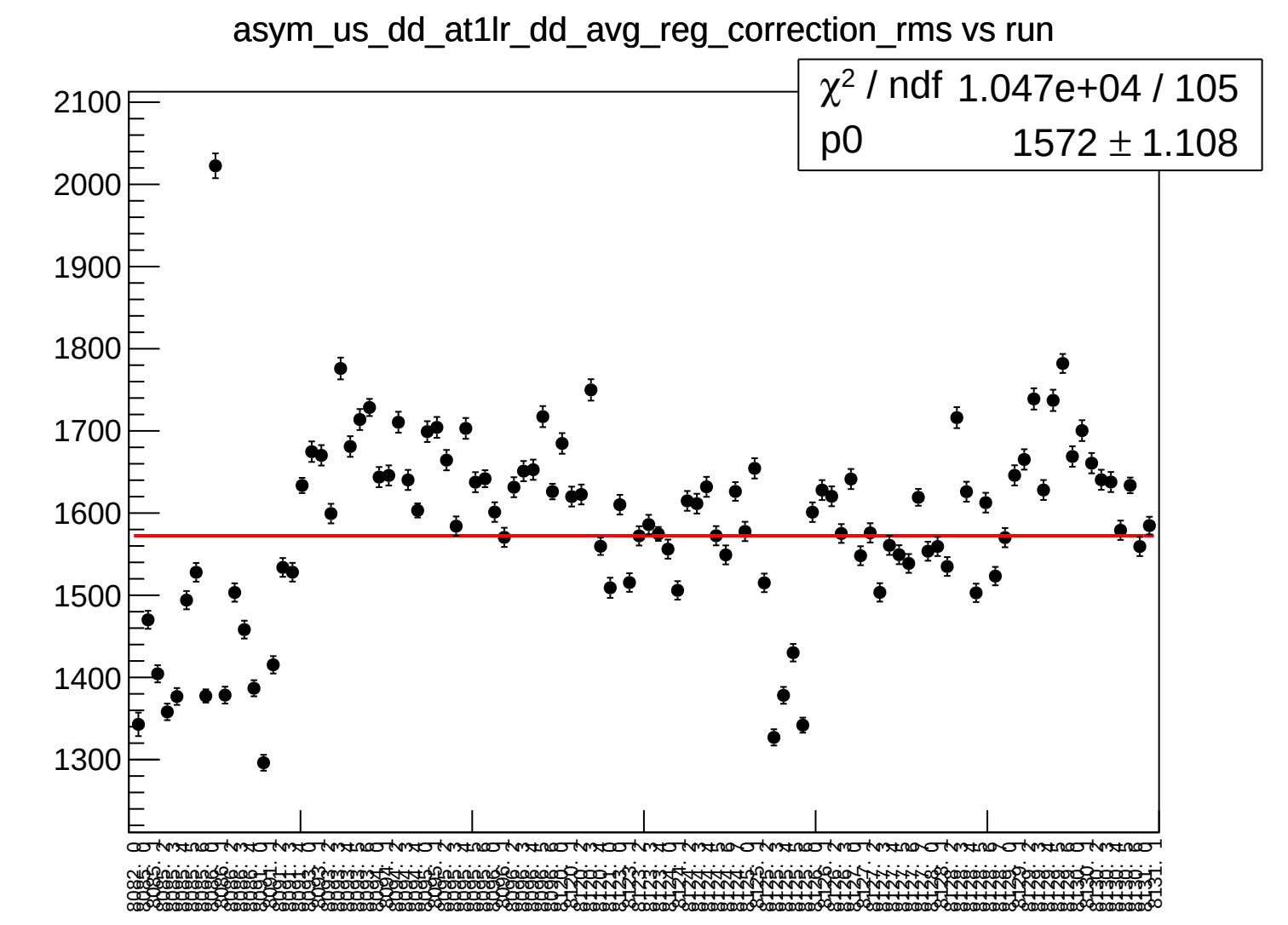

reg_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 90.5 / 105
p0 2651 ± 2139
pull
Entries 106
Mean 2578
Std Dev 0

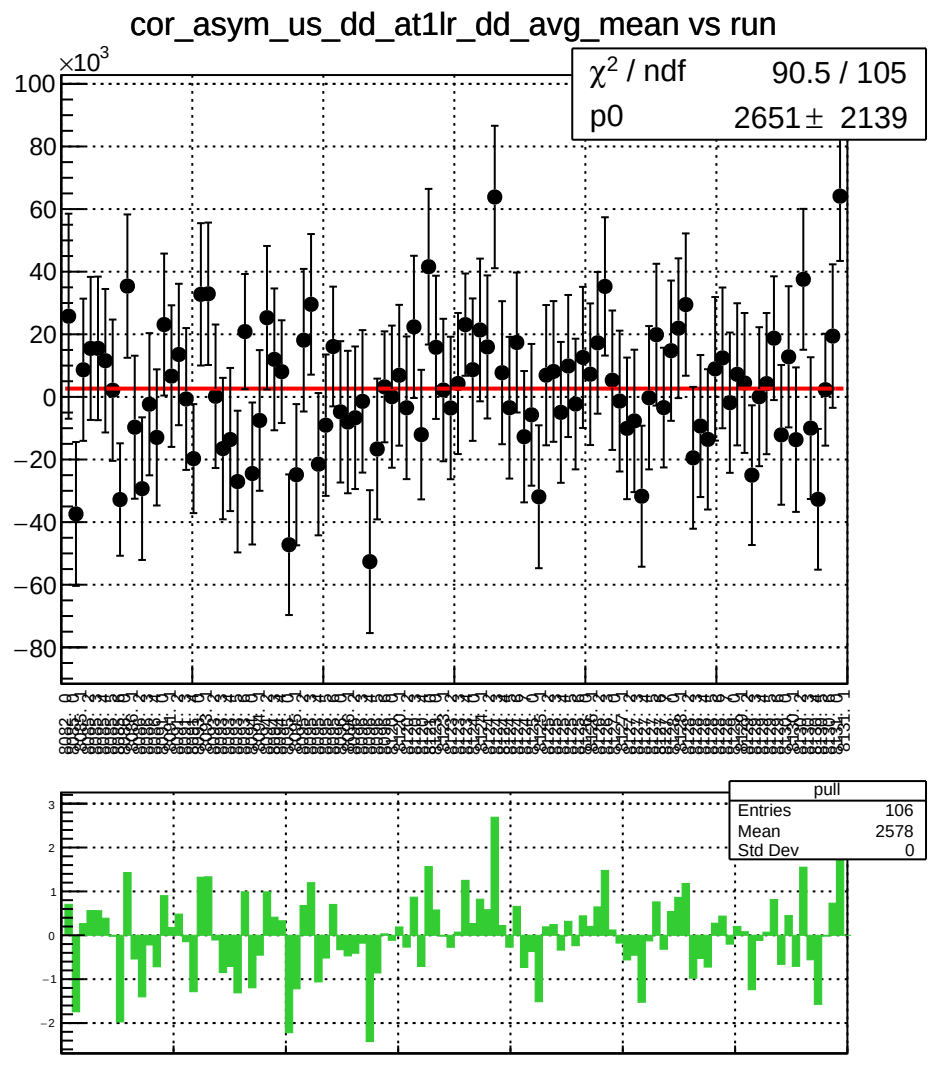

pull1D
Entries 106
Mean 0.001199
Std Dev 0.924

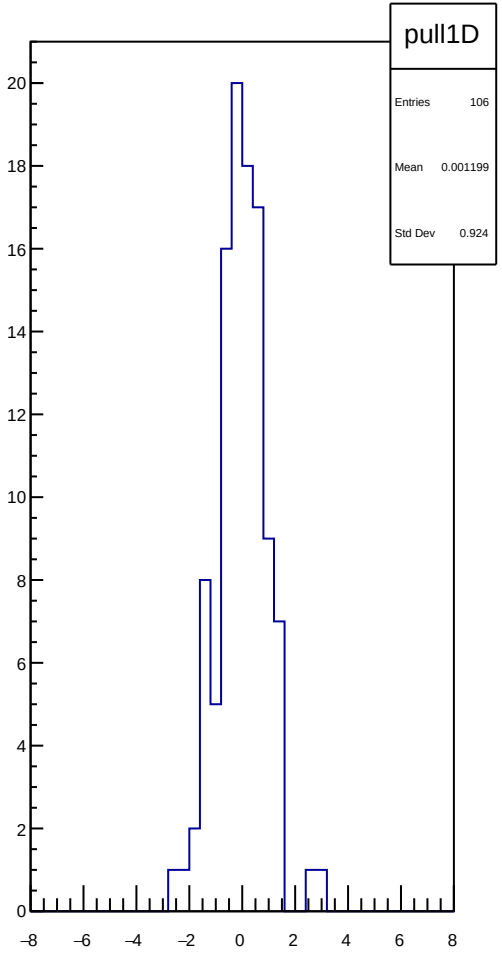

reg_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 119.9 / 105
p0 2151 ± 1.512
2200
2180
2160
2140
2120
2100
2080

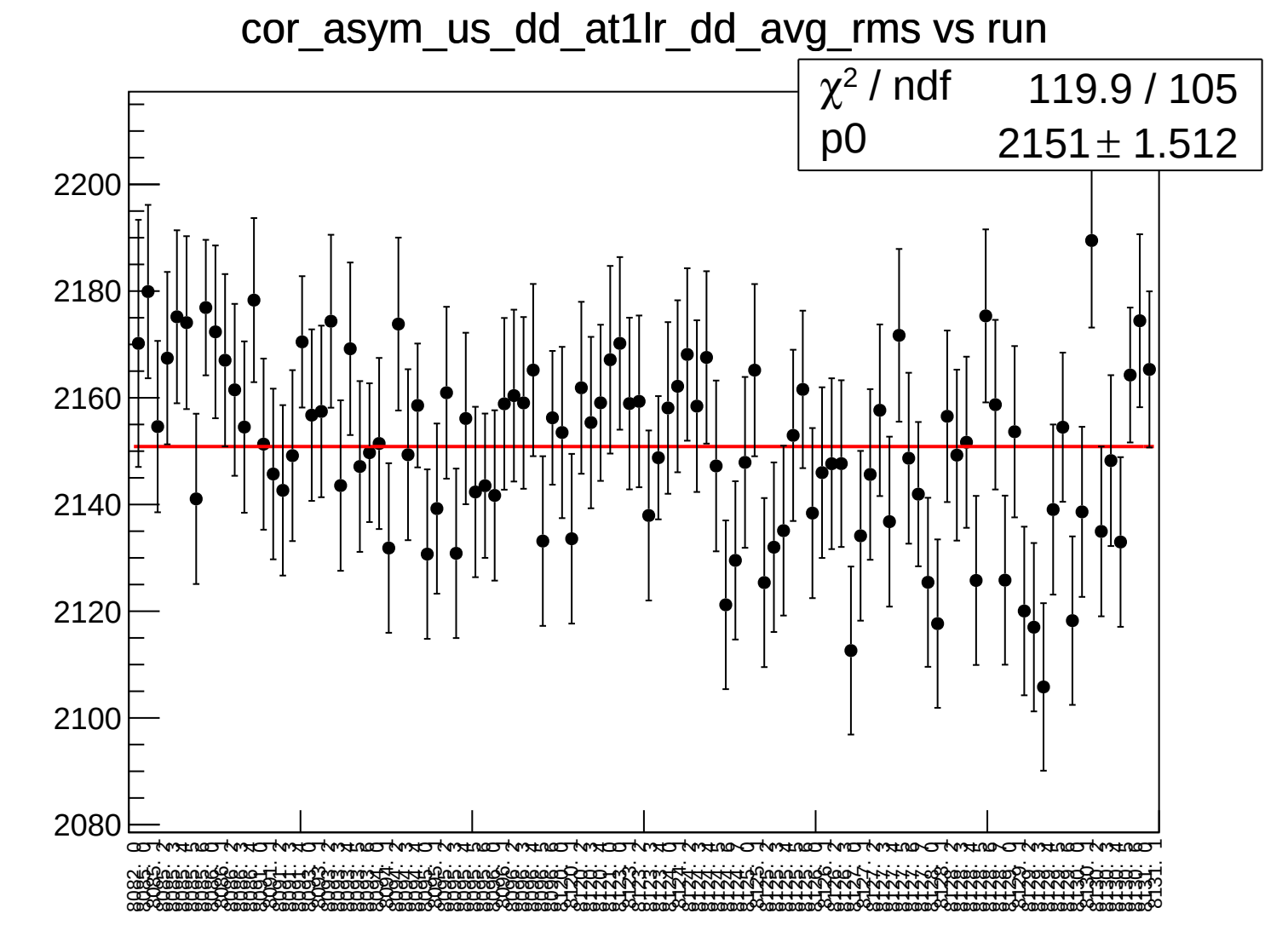

asym_us_dd_at1lr_dd_avg_reg_correction_mean vs run
χ² / ndf 85.1 / 105
p0 −2456 ± 1568
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean −30
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

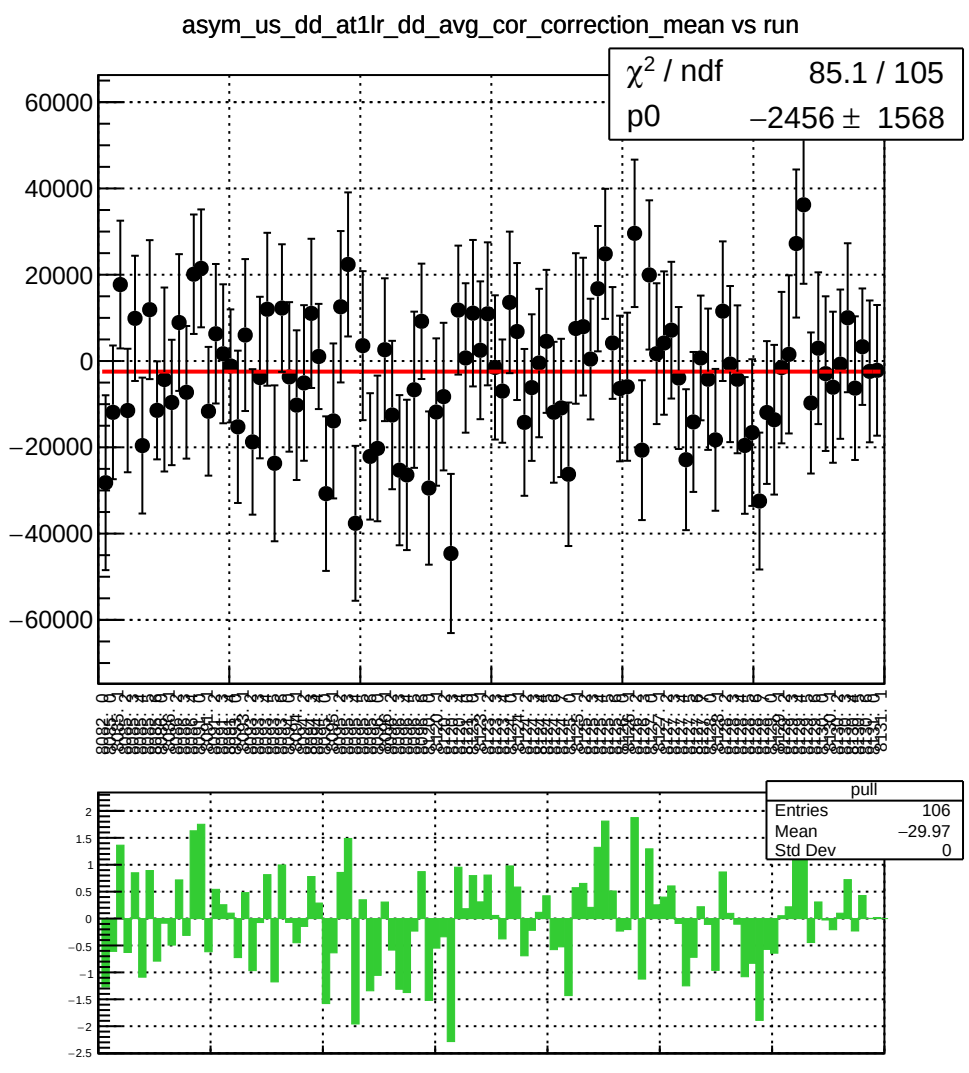

pull1D
Entries 106
Mean −0.01764
Std Dev 0.8959
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

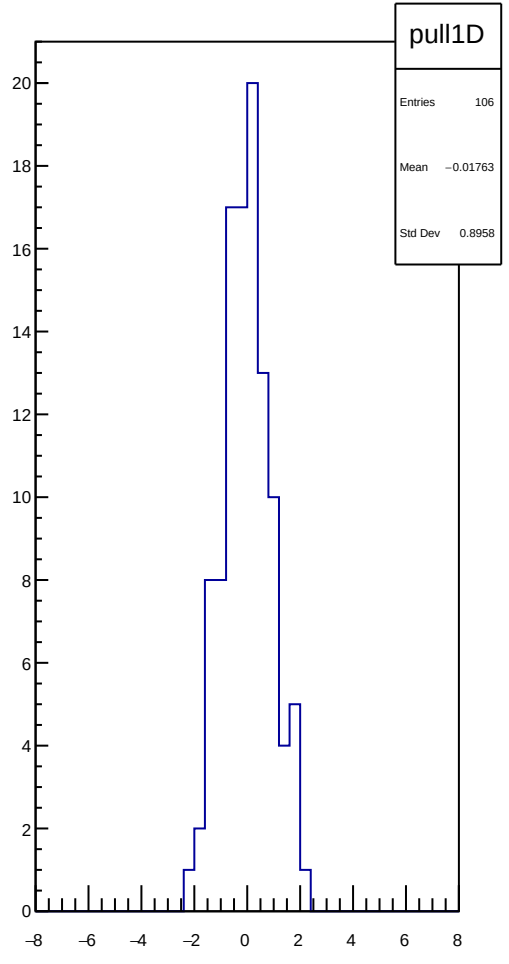

asym_us_dd_at1lr_dd_avg_reg_correction_rms vs run
χ² / ndf 1.047e+04 / 105
p0 1572 ± 1.108
2100
2000
1900
1800
1700
1600
1500
1400
1300

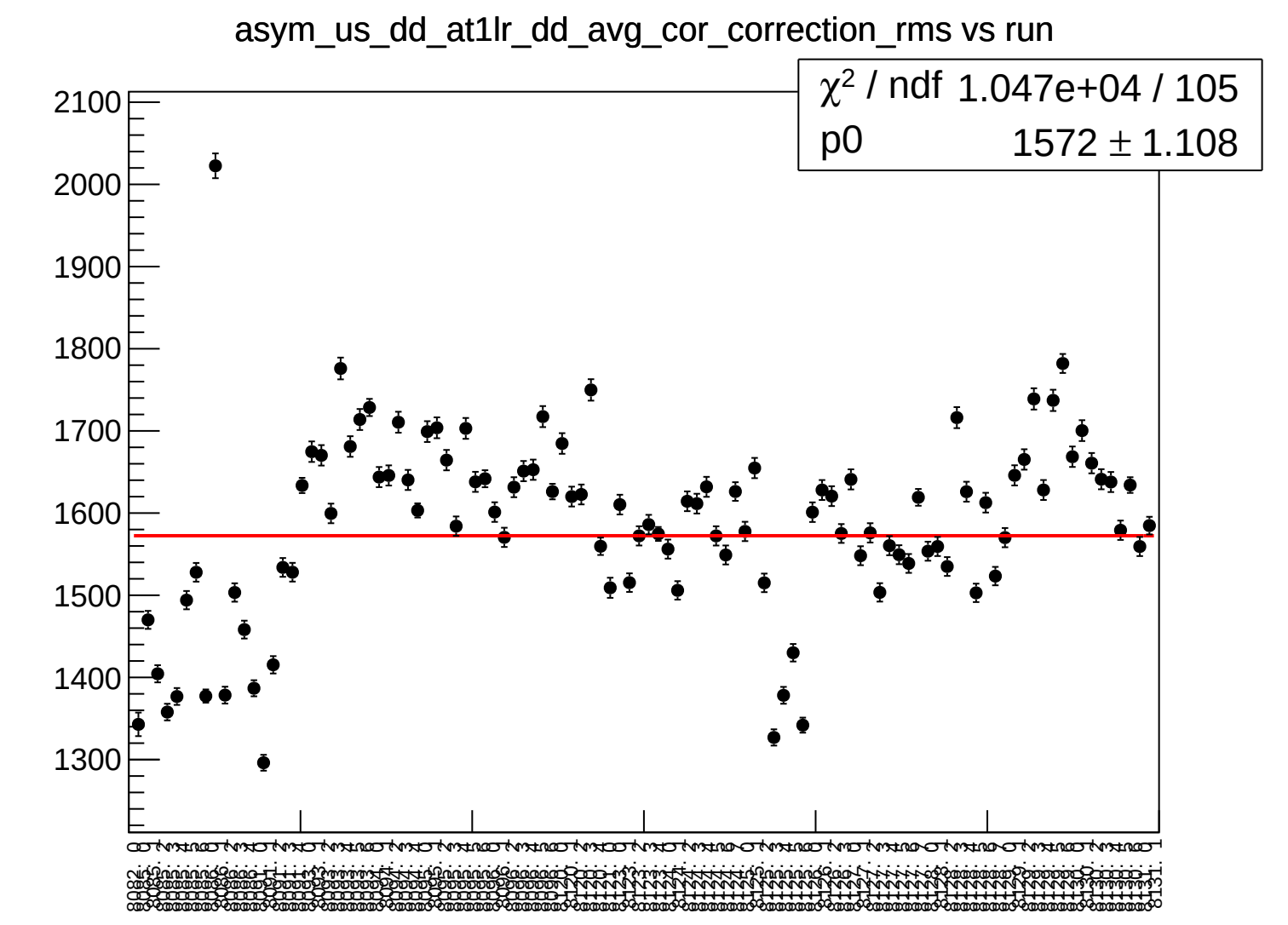

cor_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ^2 / ndf 90.5 / 105
p0 2651 ± 2139
pull
Entries 106
Mean 2578
Std Dev 0

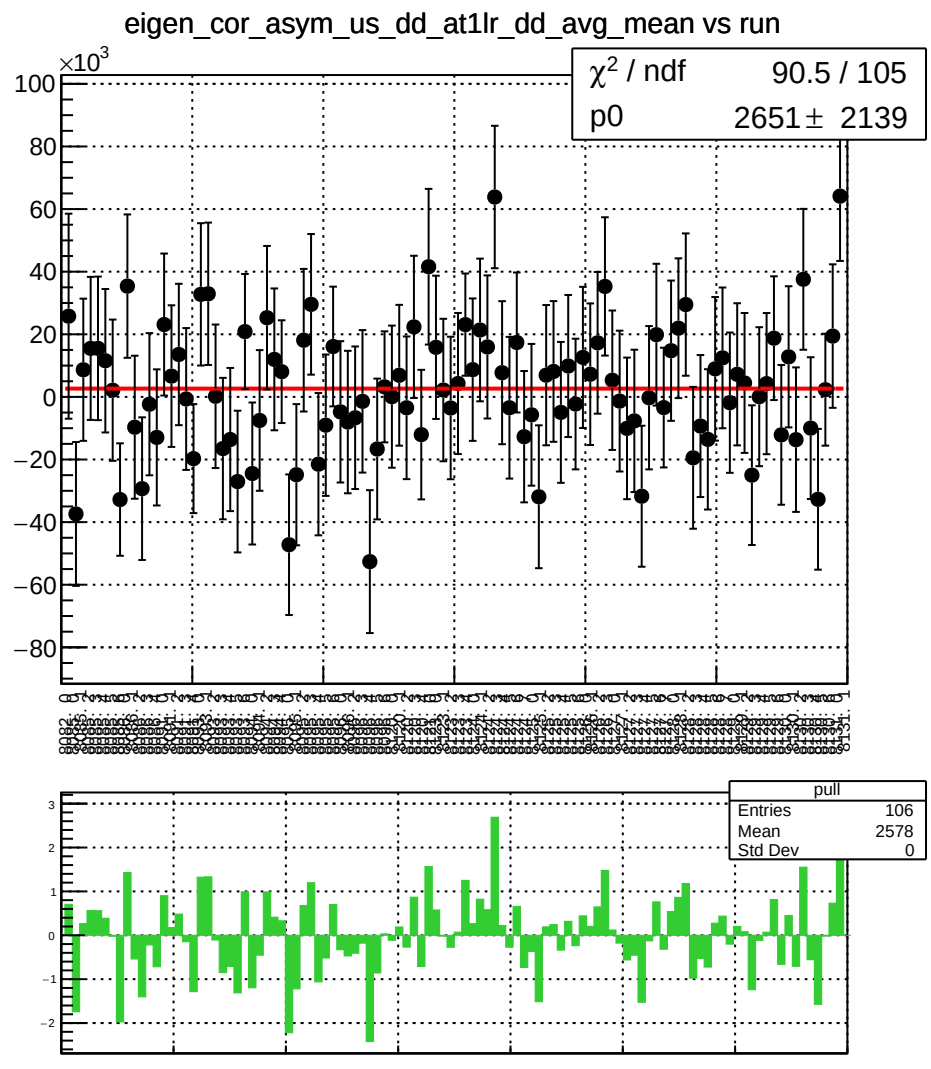

pull1D
Entries 106
Mean 0.001199
Std Dev 0.924

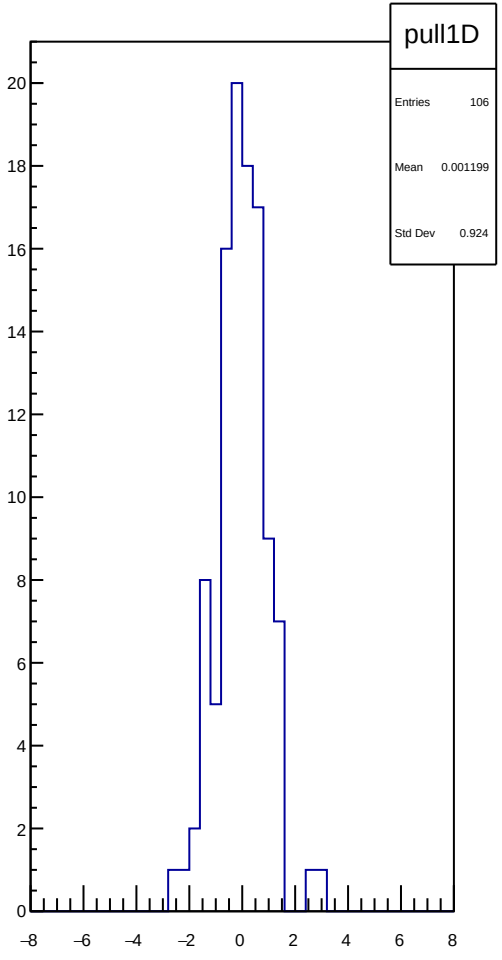

cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 119.9 / 105
p0 2151 ± 1.512
2200
2180
2160
2140
2120
2100
2080

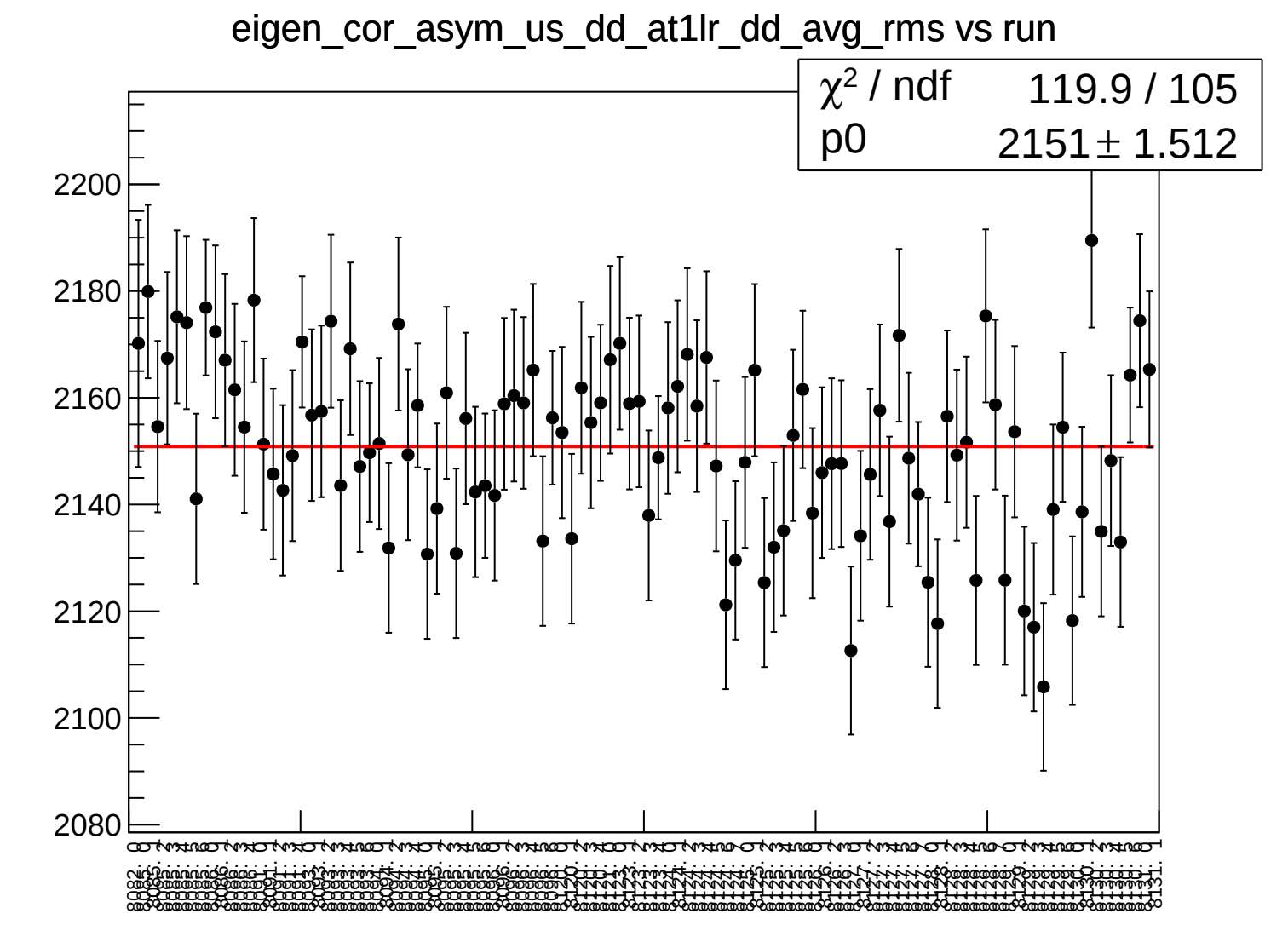

asym_us_dd_at1lr_dd_avg_cor_correction_mean vs run
χ² / ndf 85.1 / 105
p0 −2456 ± 1568
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean −29.97
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

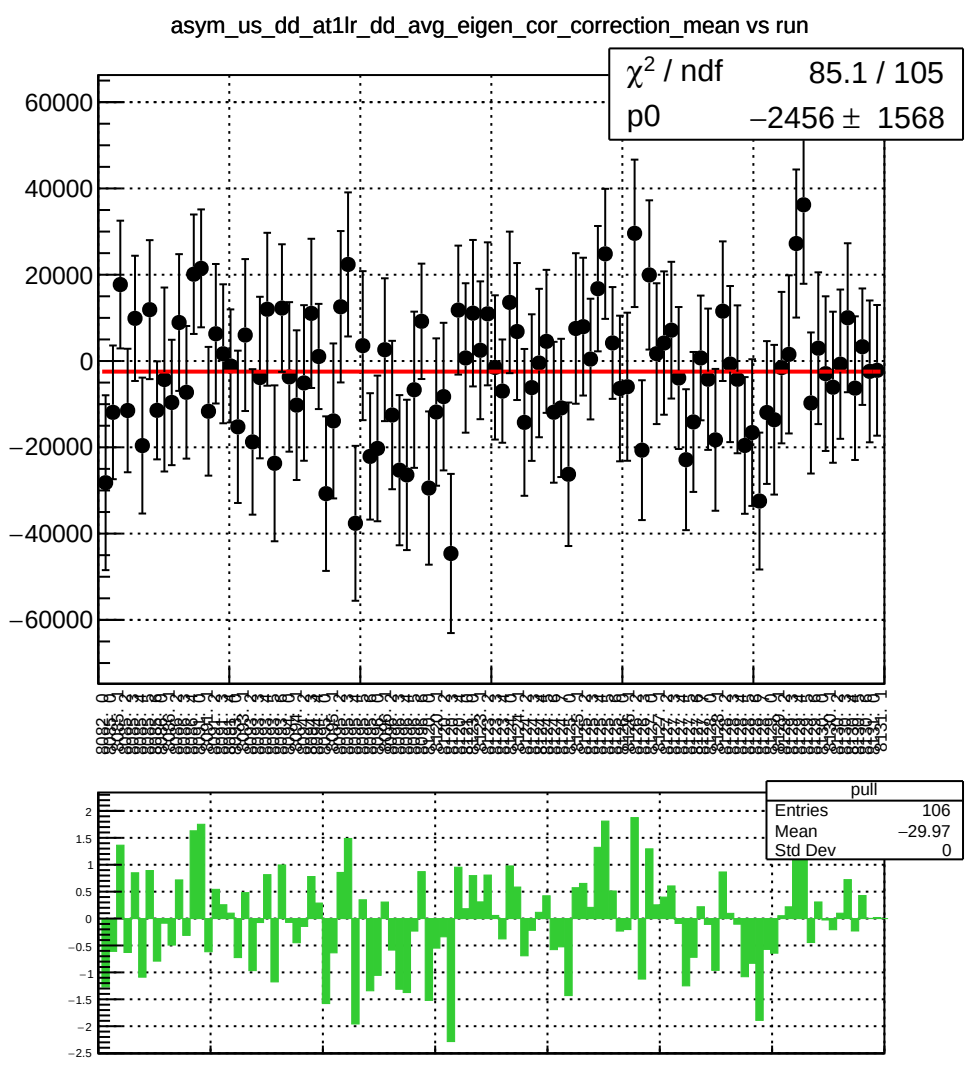

pull1D
Entries 106
Mean −0.01763
Std Dev 0.8958
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

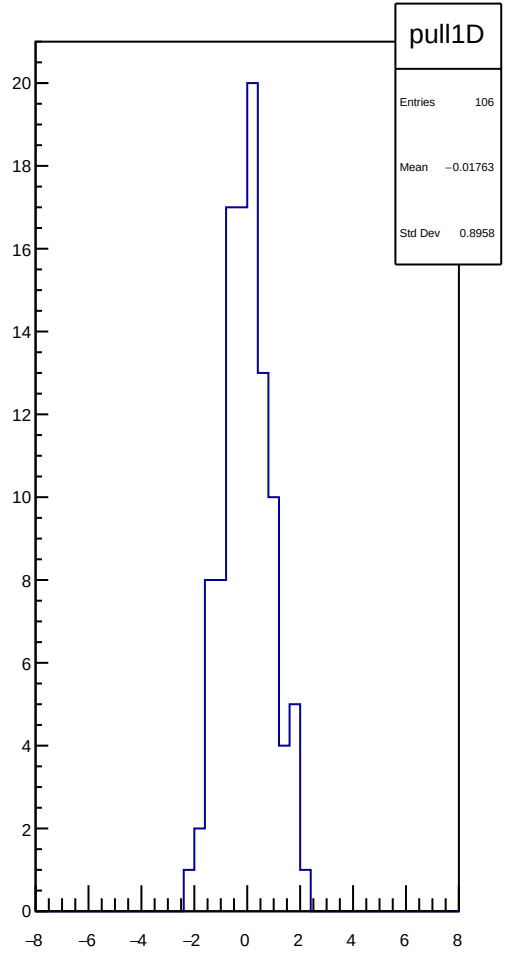

asym_us_dd_at1lr_dd_avg_cor_correction_rms vs run
χ² / ndf 1.047e+04 / 105
p0 1572 ± 1.108
2100
2000
1900
1800
1700
1600
1500
1400
1300

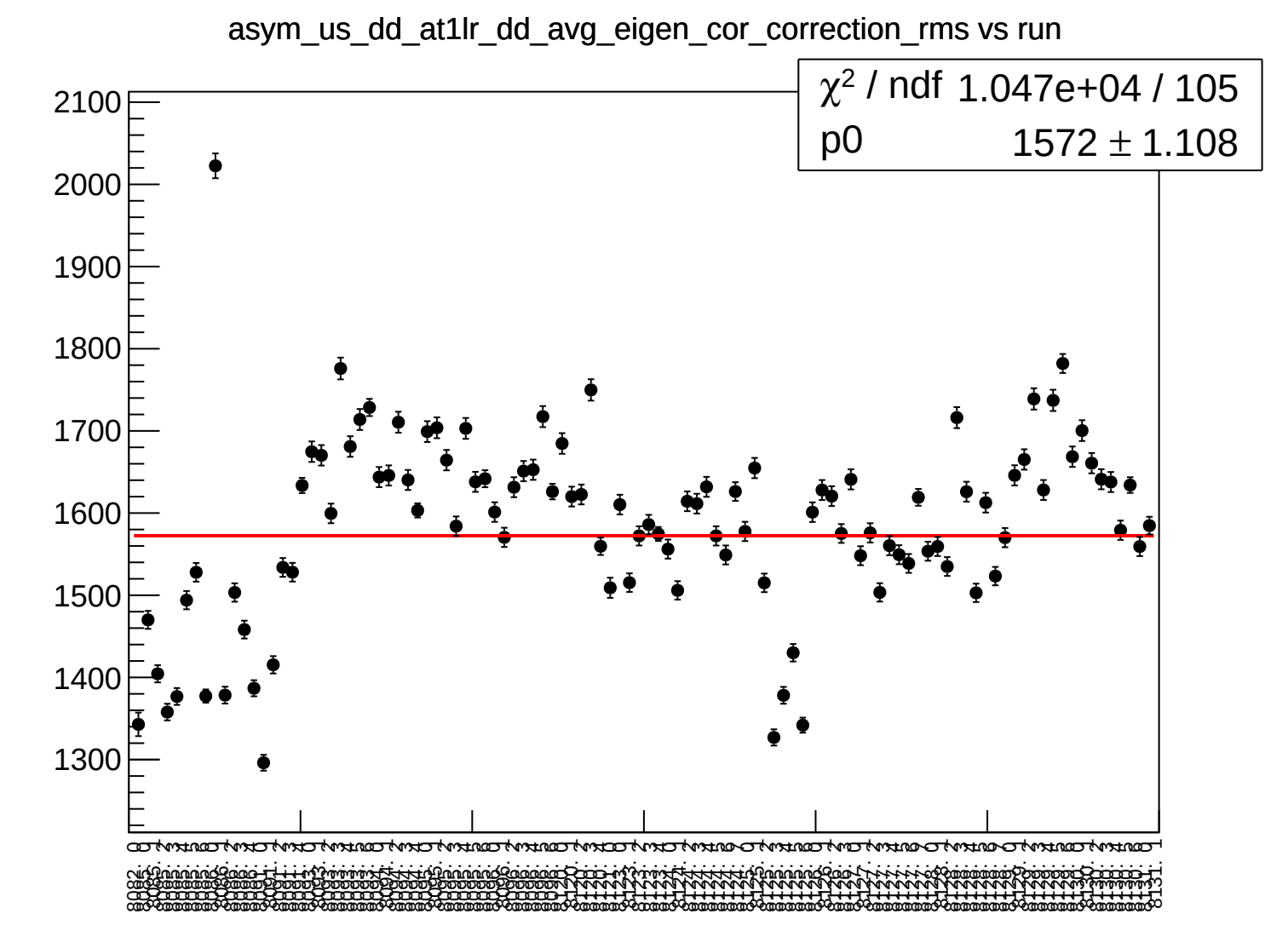

eigen_cor_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ^2 / ndf 90.5 / 105
p0 2651 ± 2139
pull
Entries 106
Mean 2578
Std Dev 0

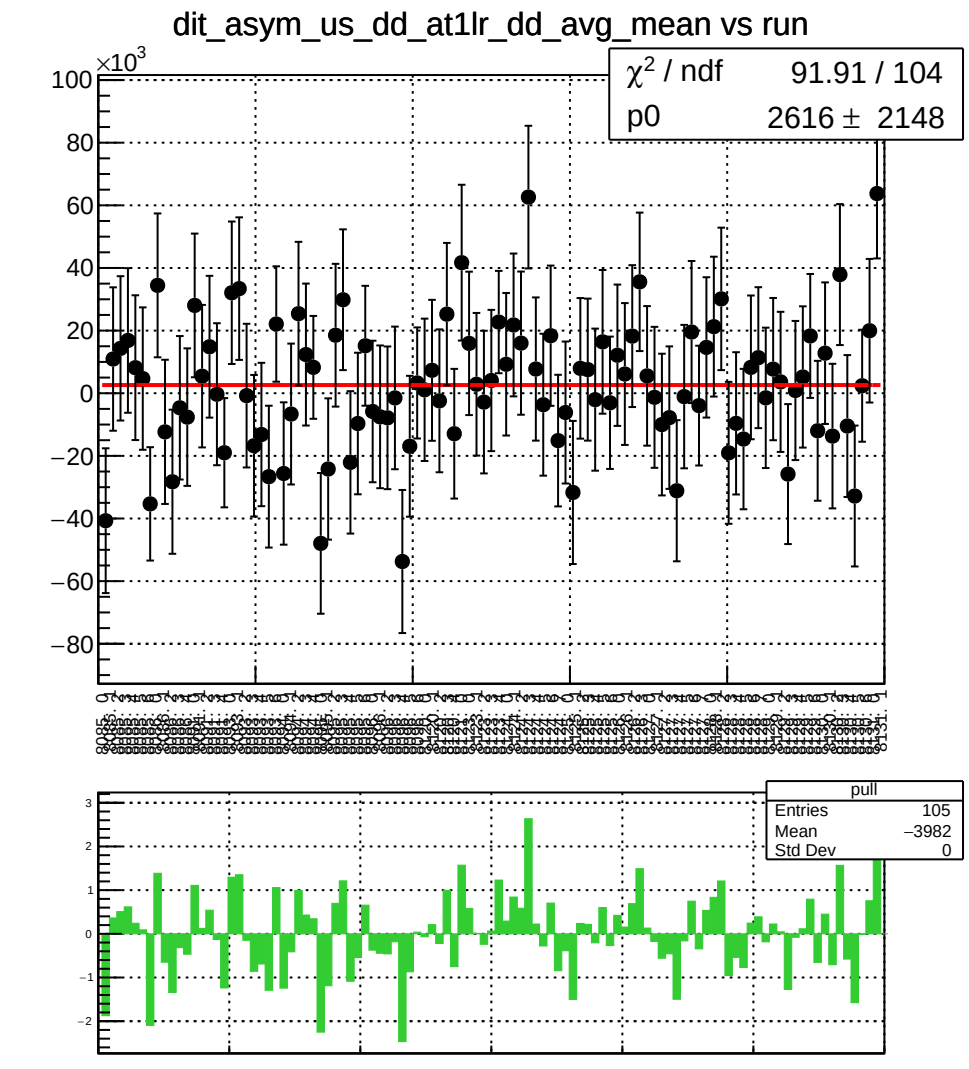

pull1D
Entries 106
Mean 0.001199
Std Dev 0.924

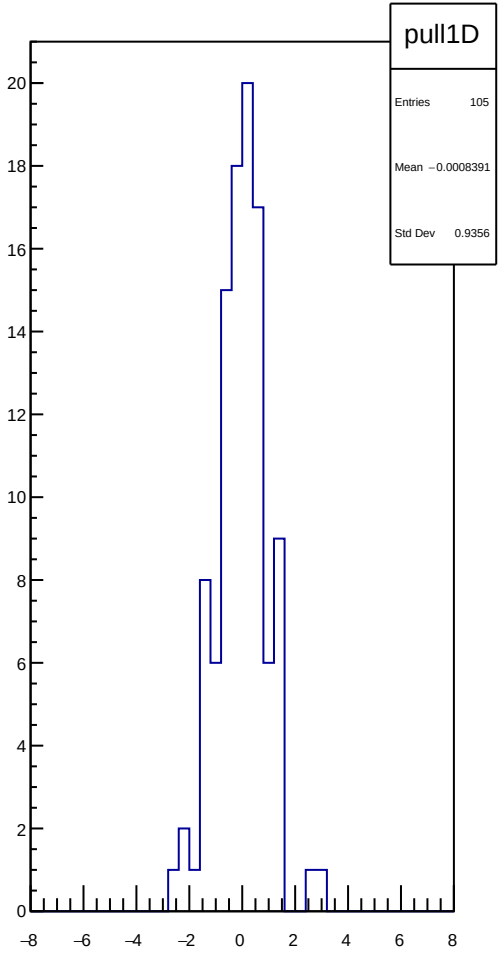

eigen_cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 119.9 / 105
p0 2151 ± 1.512
2200
2180
2160
2140
2120
2100
2080

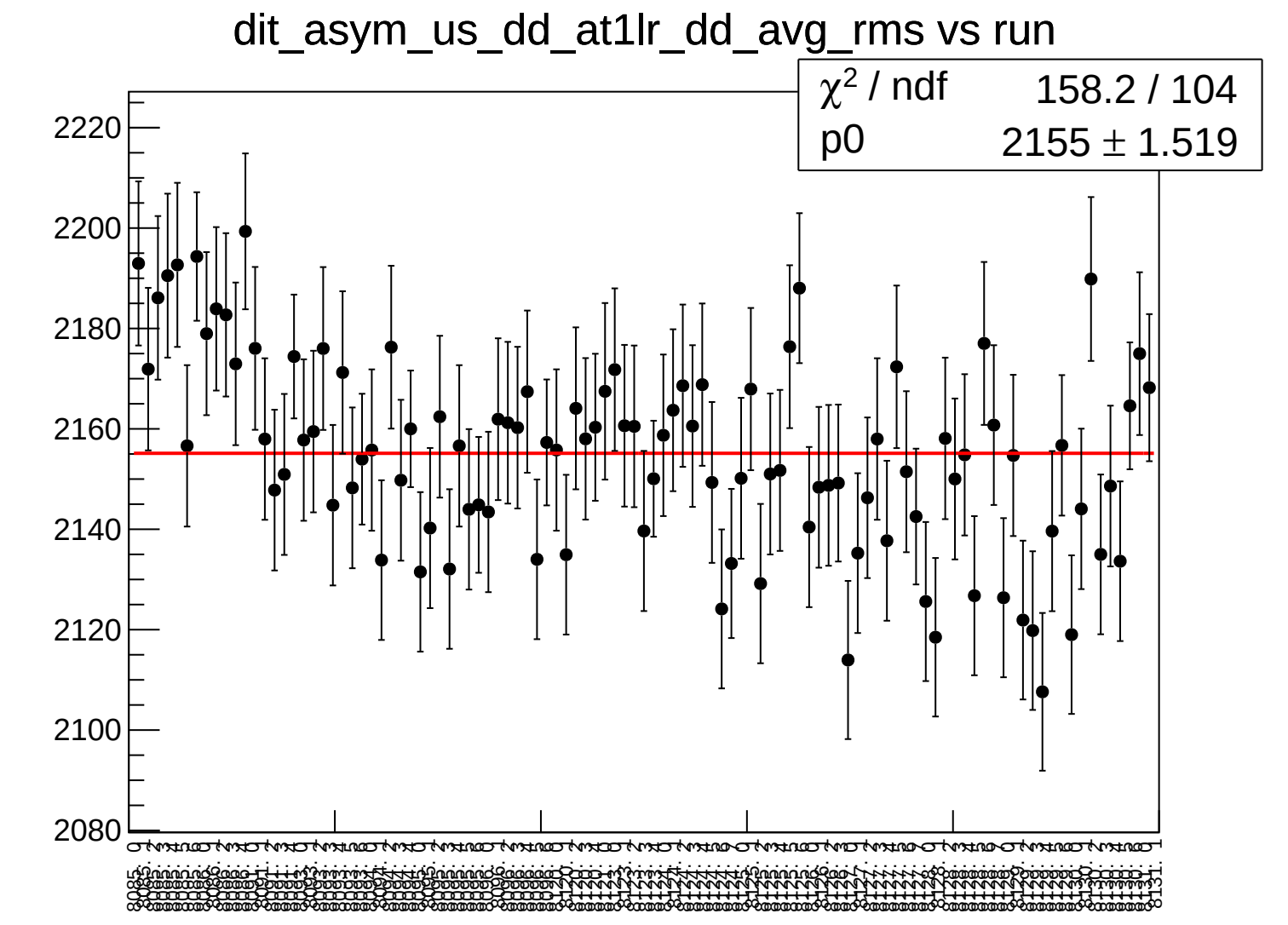

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 85.1 / 105
p0 −2456 ± 1568
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean −29.97
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

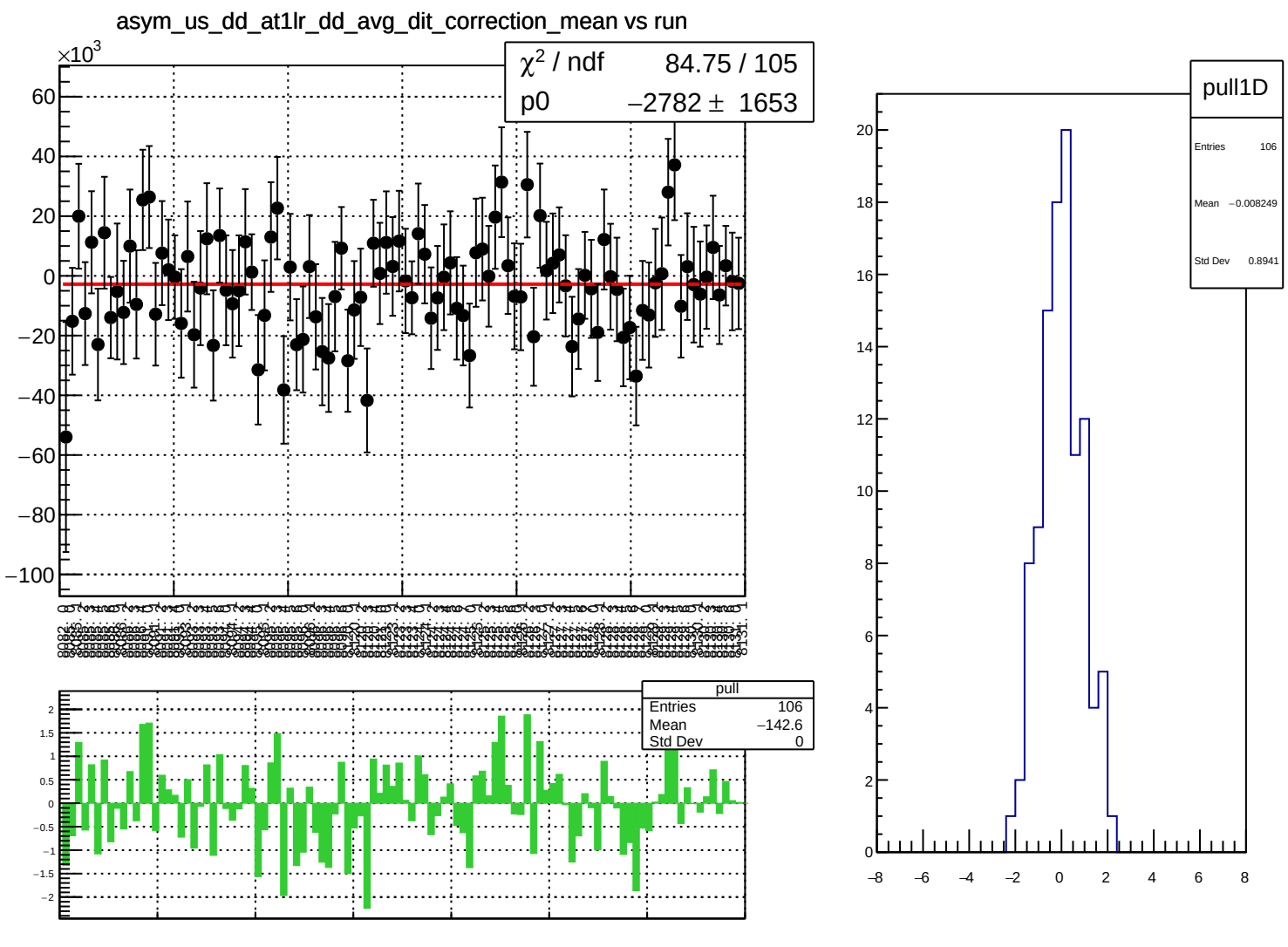

pull1D
Entries 106
Mean −0.01763
Std Dev 0.8958
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

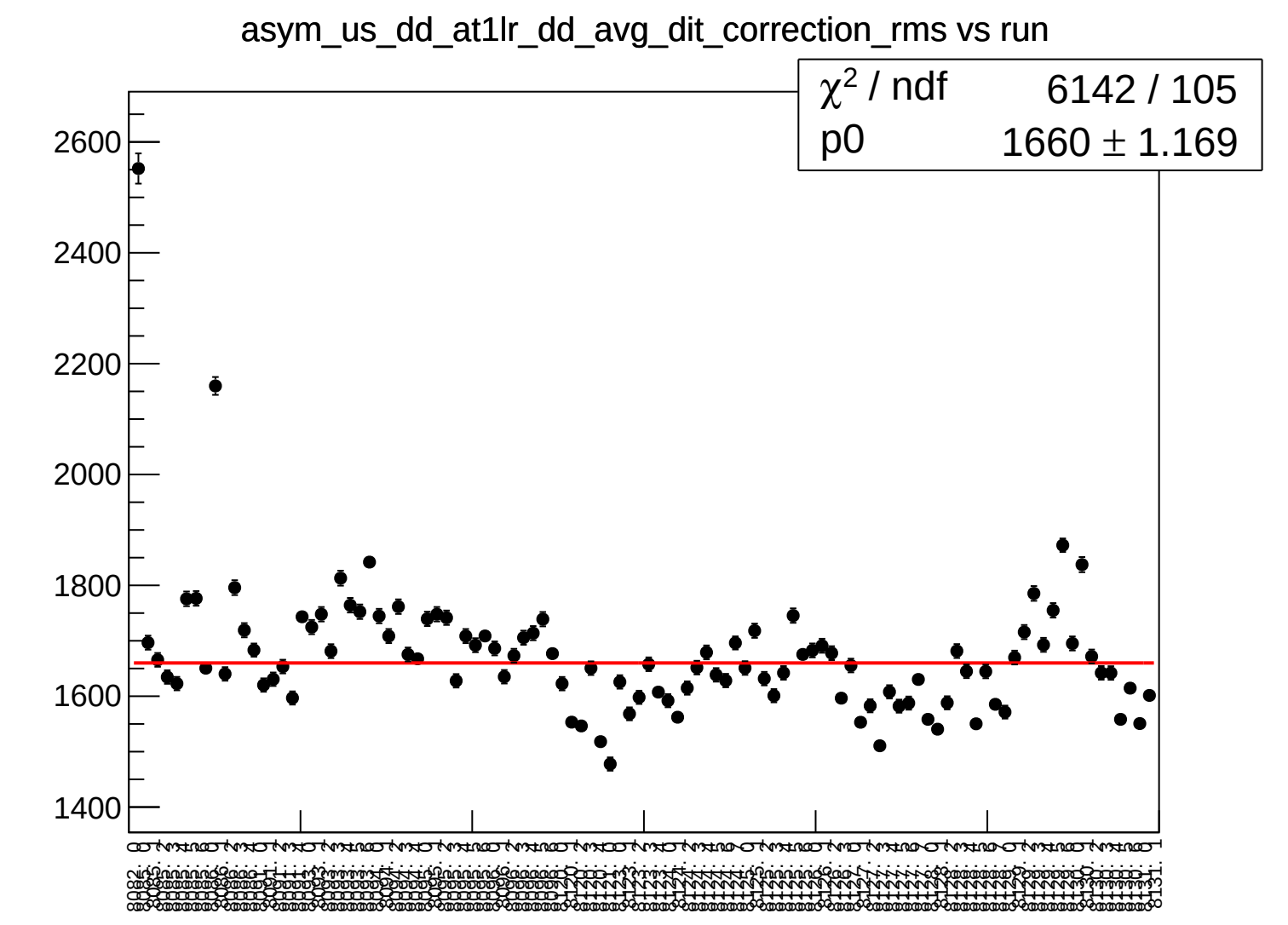

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.047e+04 / 105
p0 1572 ± 1.108
2100
2000
1900
1800
1700
1600
1500
1400
1300

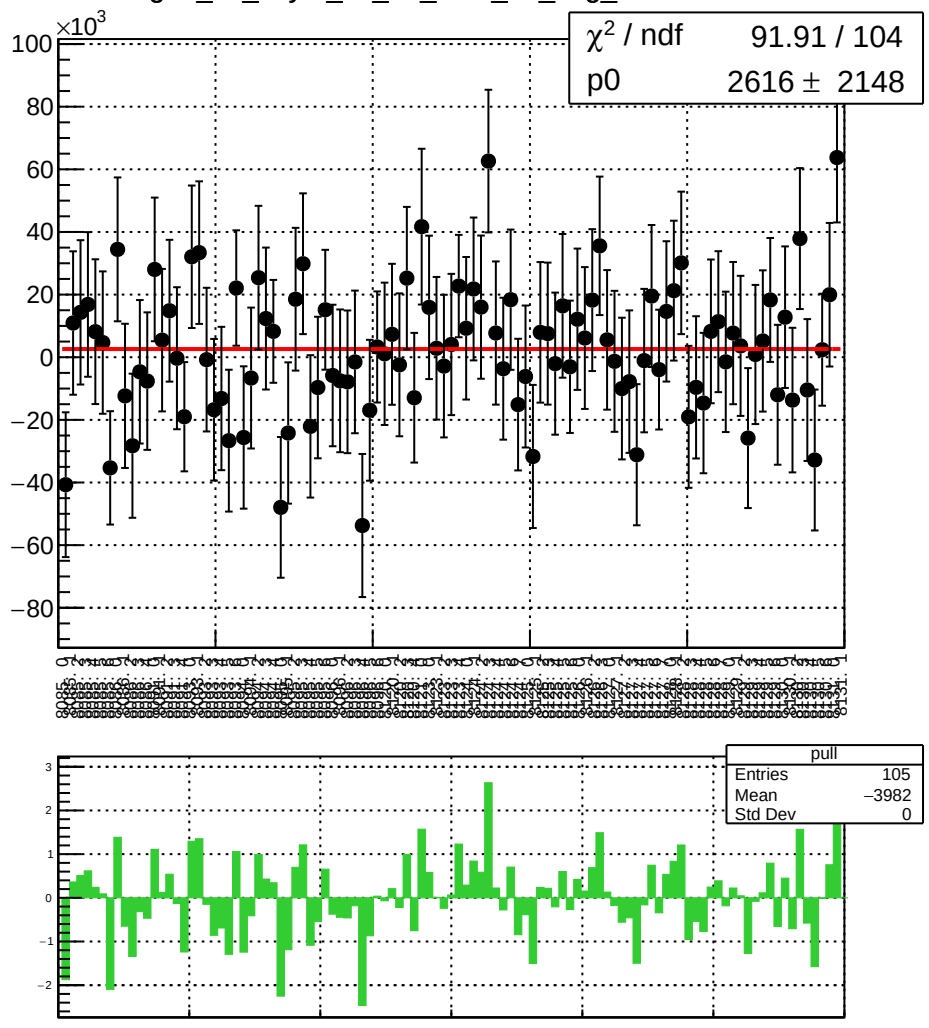

dit_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ^2 / ndf 91.91 / 104
p0 2616 ± 2148
pull
Entries 105
Mean −3982
Std Dev 0

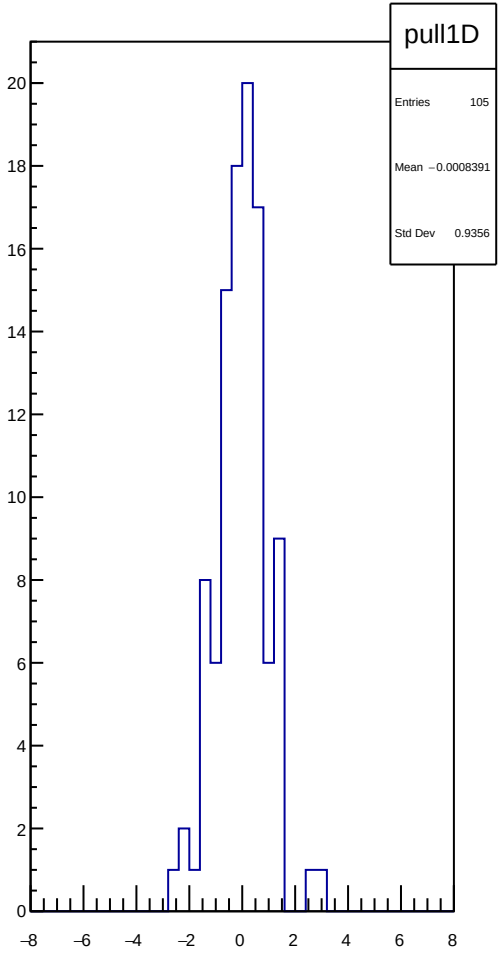

pull1D
Entries 105
Mean −0.0008391
Std Dev 0.9356

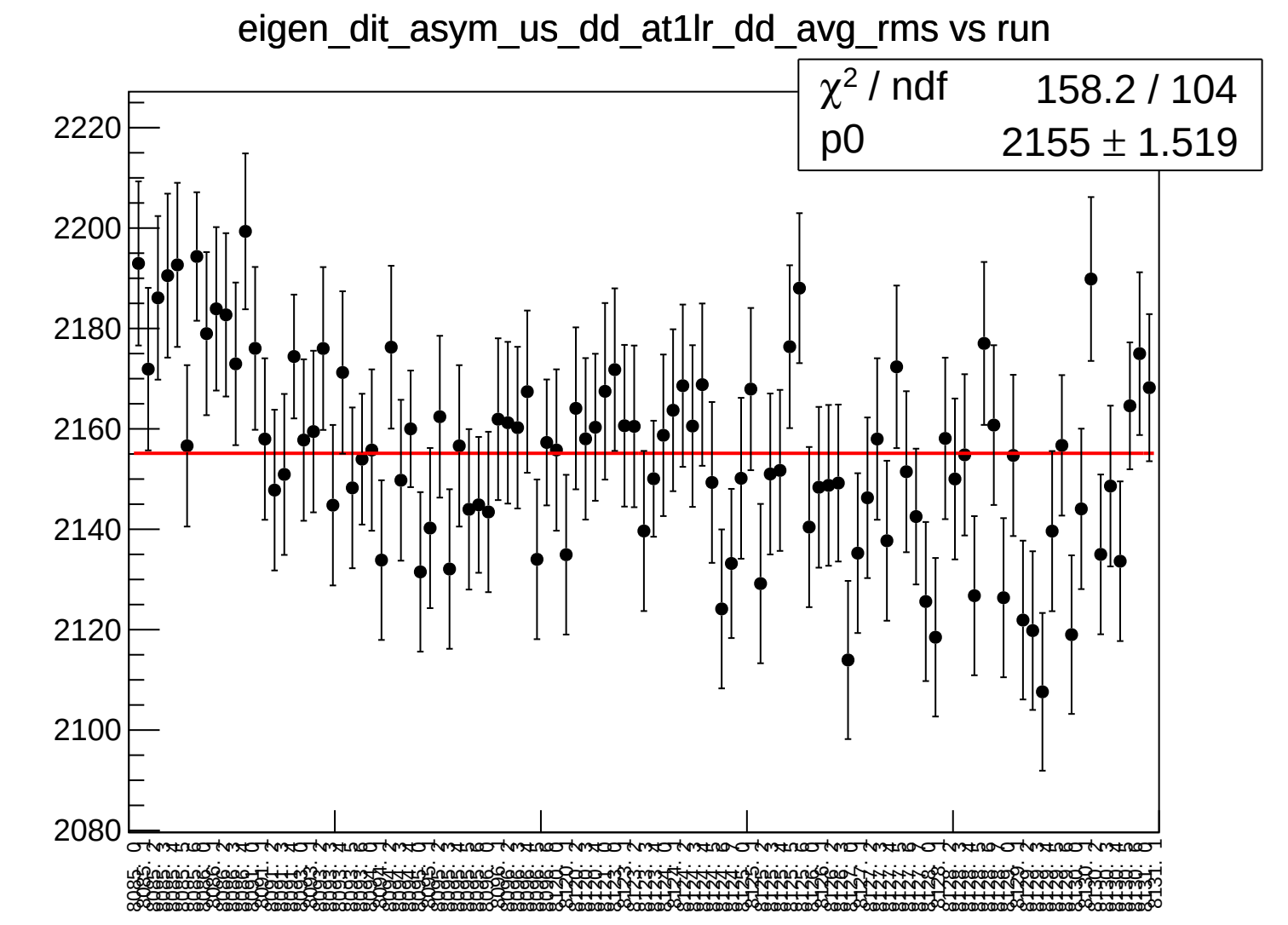

dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 158.2 / 104
p0 2155 ± 1.519
2220
2200
2180
2160
2140
2120
2100
2080

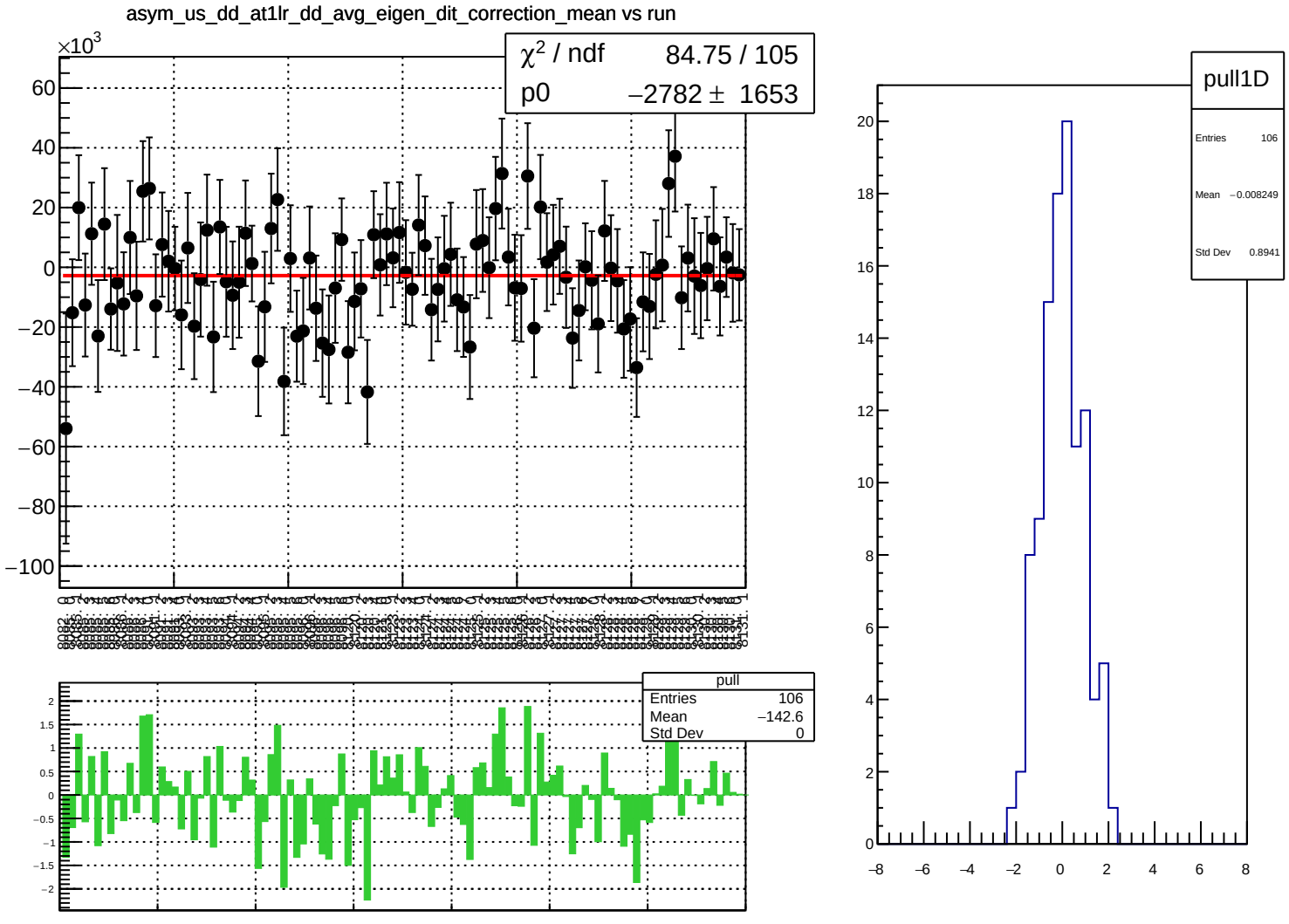

asym_us_dd_at1lr_dd_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 84.75 / 105
p0 −2782 ± 1653
pull
Entries 106
Mean −142.6
Std Dev 0
pull1D
Entries 106
Mean −0.008249
Std Dev 0.8941

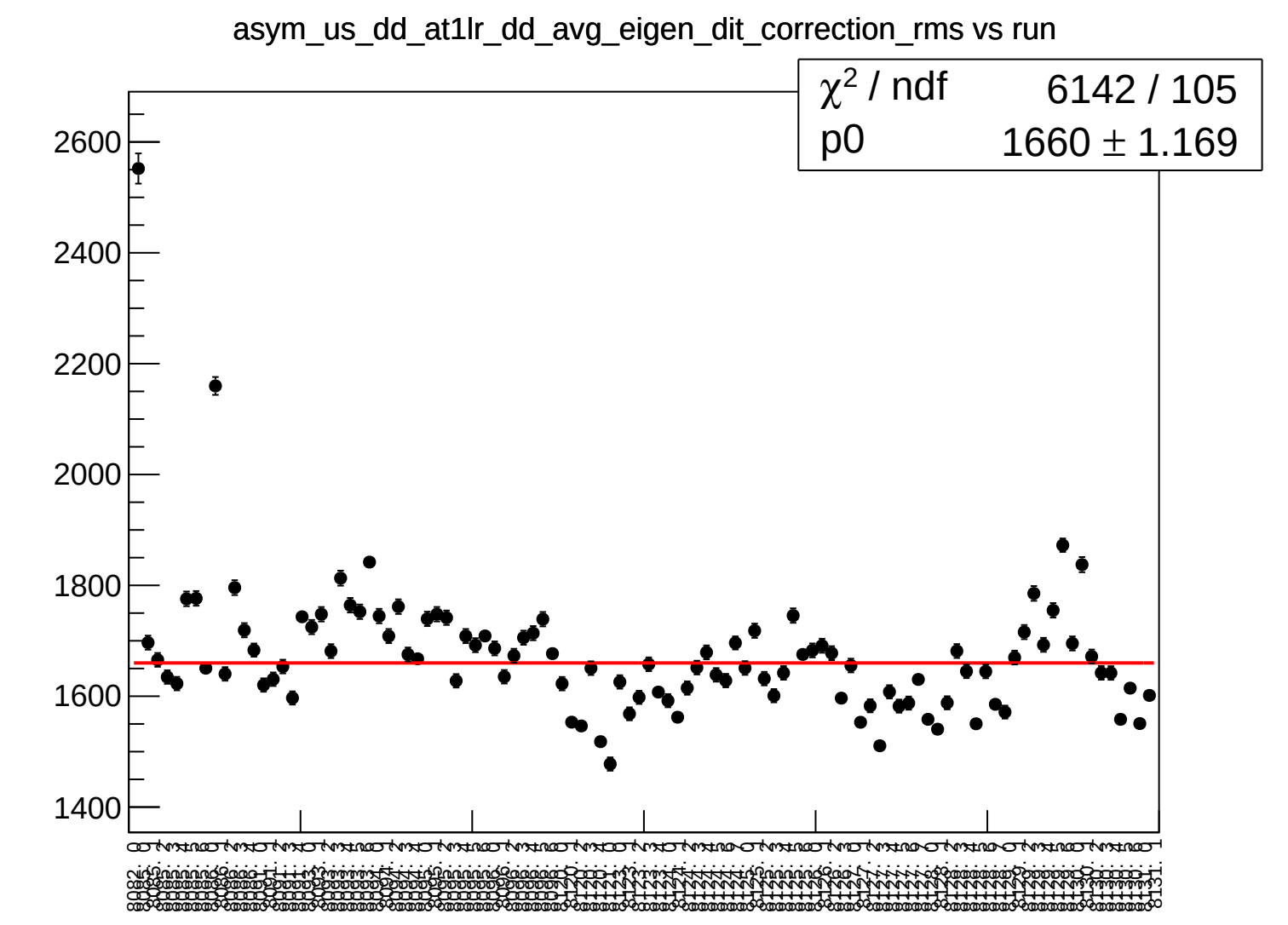

asym_us_dd_at1lr_dd_avg_dit_correction_rms vs run
$\chi^2$ / ndf 6142 / 105
p0 1660 ± 1.169
2600
2400
2200
2000
1800
1600
1400

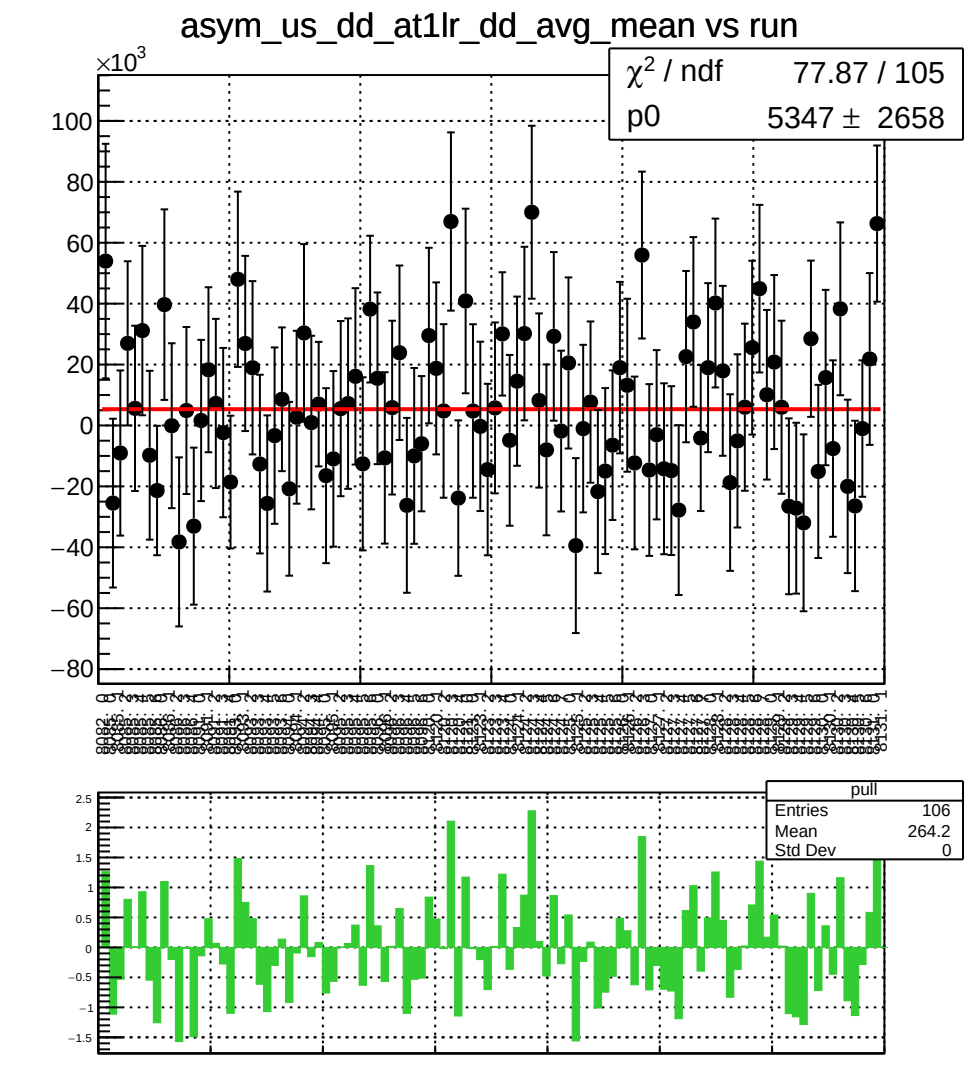

eigen_dit_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 91.91 / 104
p0 2616 ± 2148
pull
Entries 105
Mean −3982
Std Dev 0

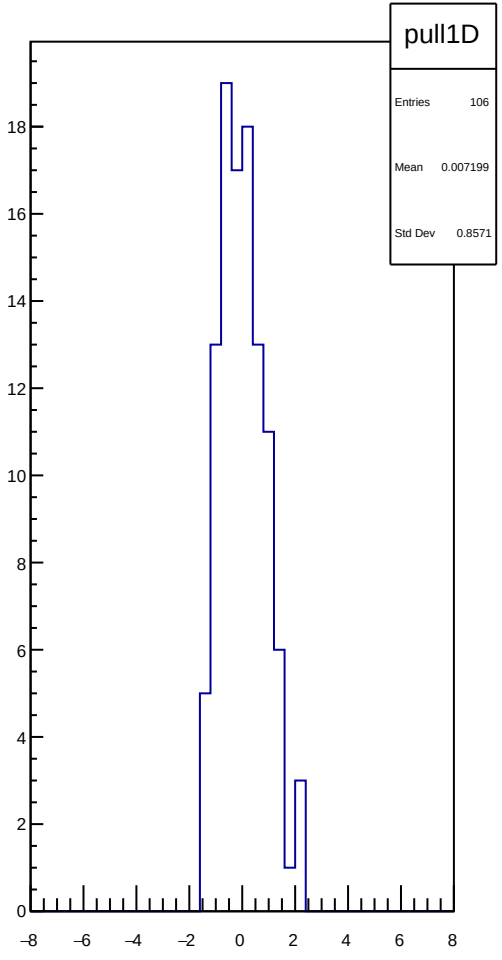

pull1D
Entries 105
Mean −0.0008391
Std Dev 0.9356

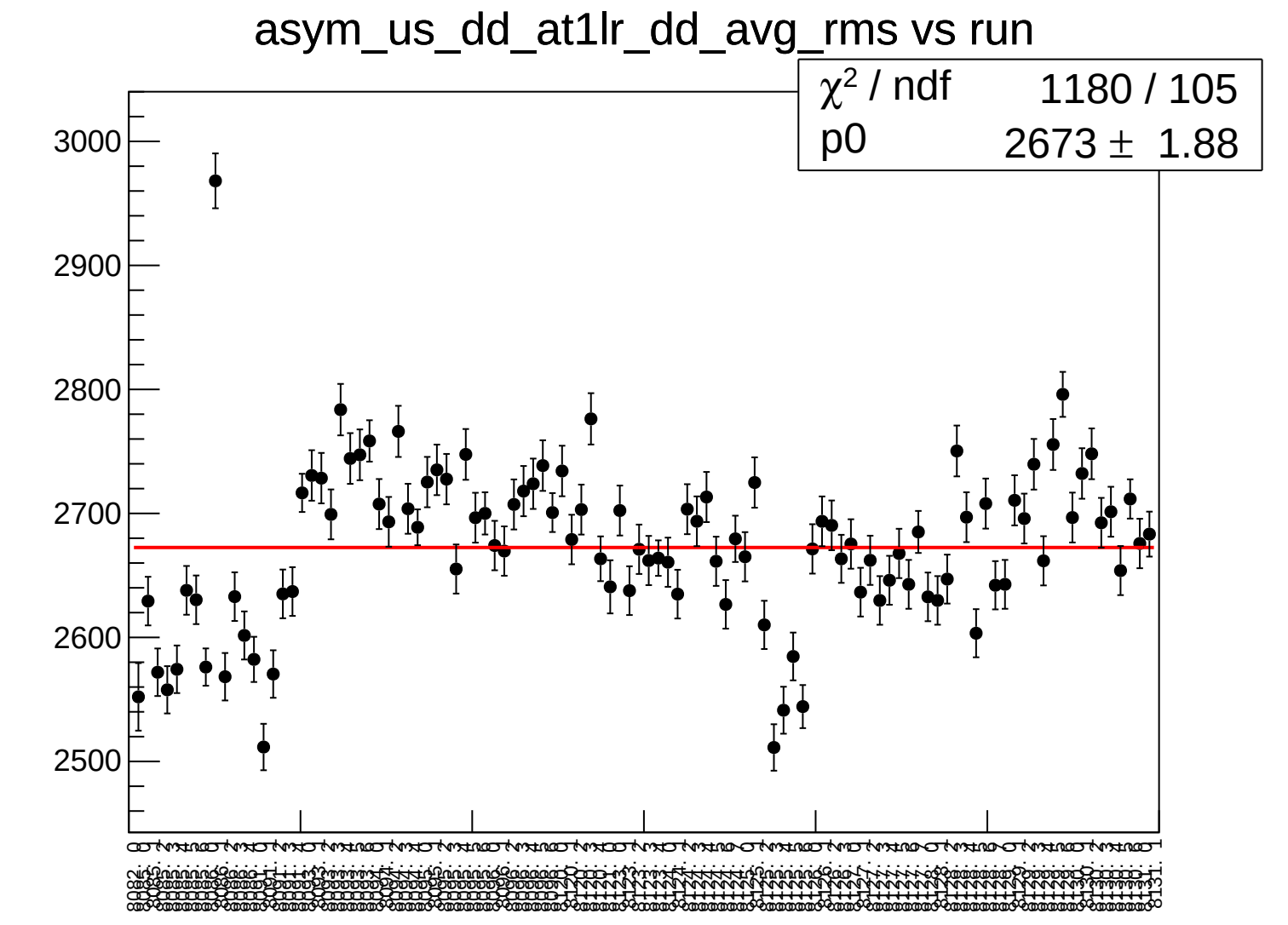

eigen_dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 158.2 / 104
p0 2155 ± 1.519
2220
2200
2180
2160
2140
2120
2100
2080

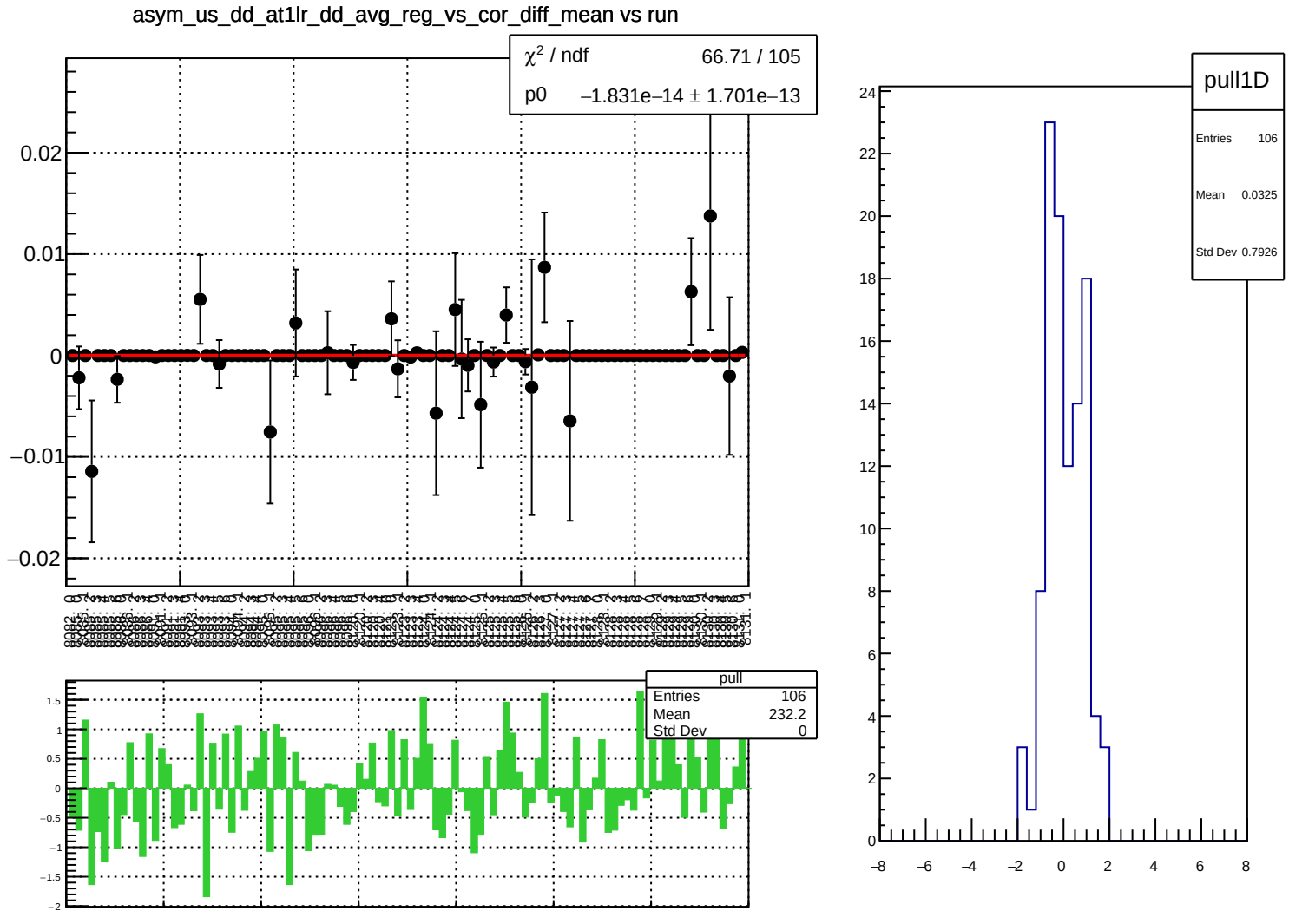

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 84.75 / 105
p0 −2782 ± 1653
pull
Entries 106
Mean −142.6
Std Dev 0
pull1D
Entries 106
Mean −0.008249
Std Dev 0.8941

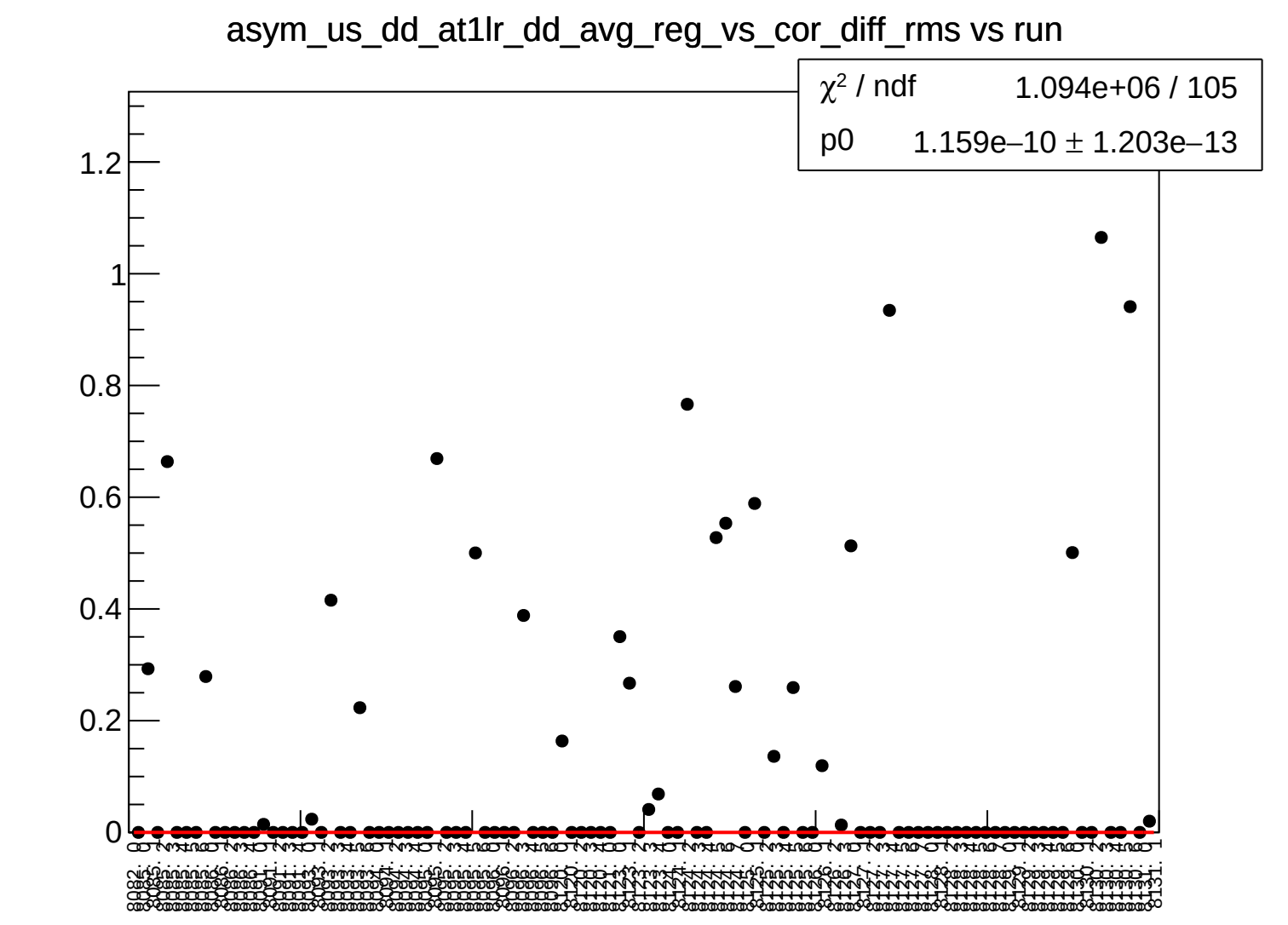

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 6142 / 105
p0 1660 ± 1.169
2600
2400
2200
2000
1800
1600
1400

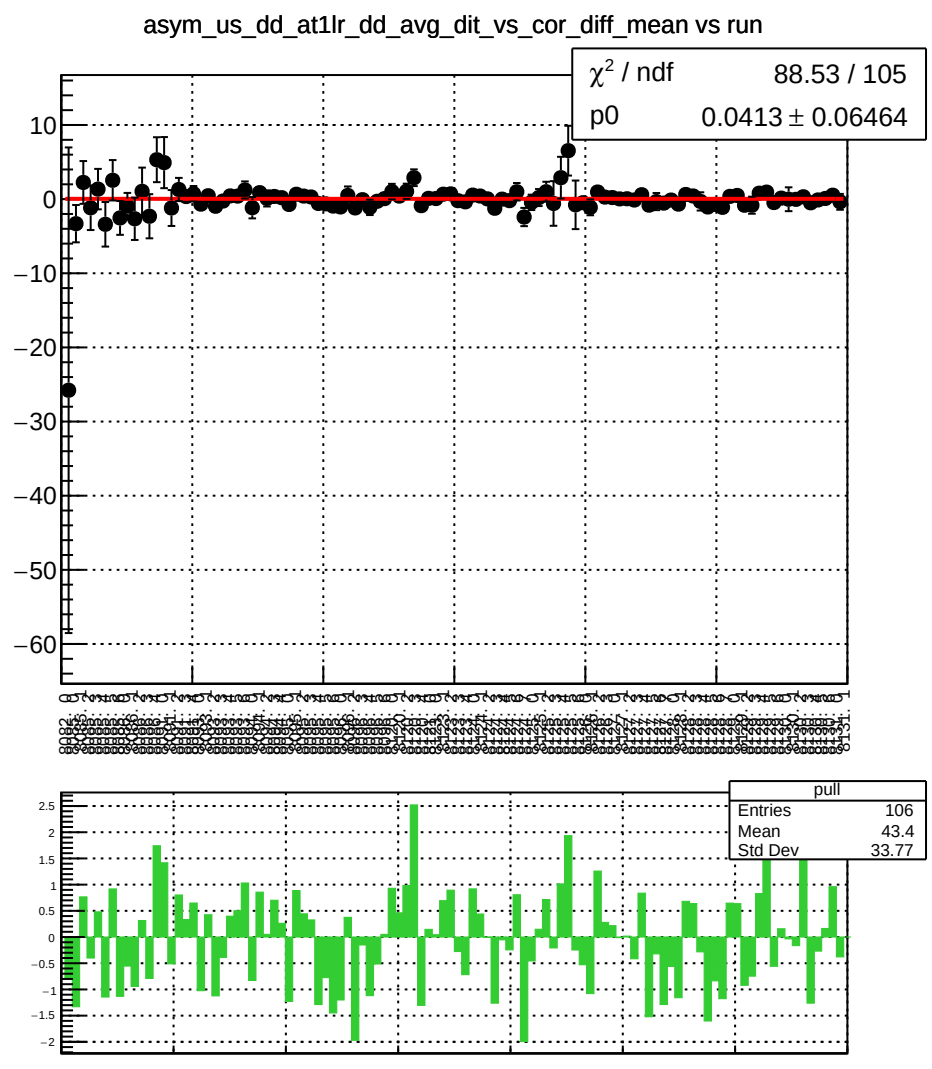

asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ² / ndf 77.87 / 105
p0 5347 ± 2658
pull
Entries 106
Mean 264.2
Std Dev 0

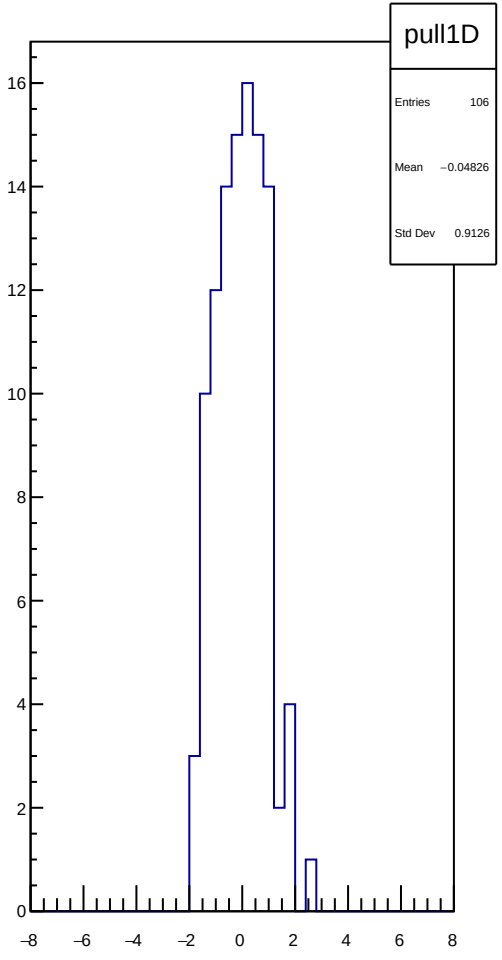

pull1D
Entries 106
Mean 0.007199
Std Dev 0.8571

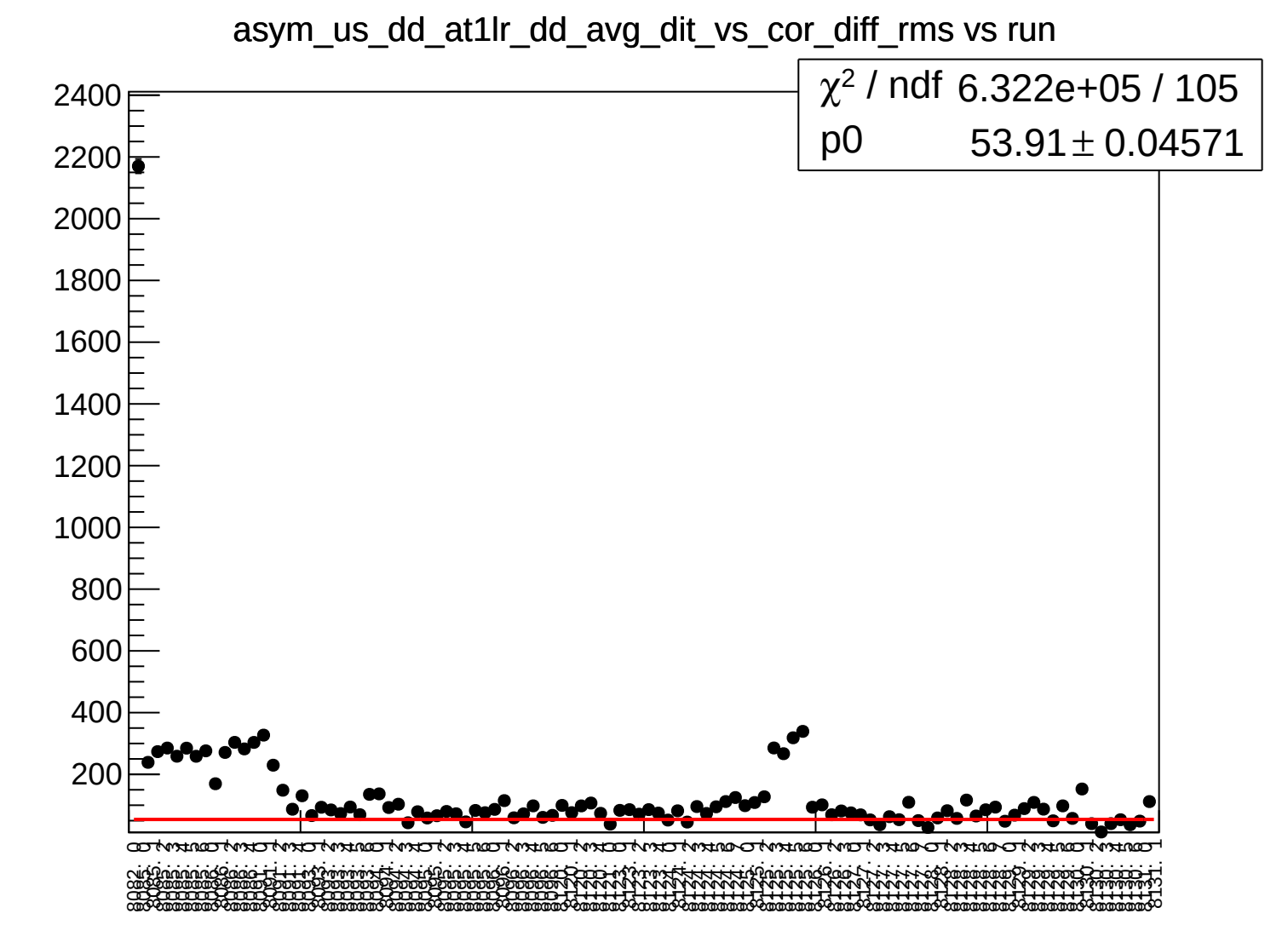

asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 1180 / 105
p0 2673 ± 1.88
3000
2900
2800
2700
2600
2500

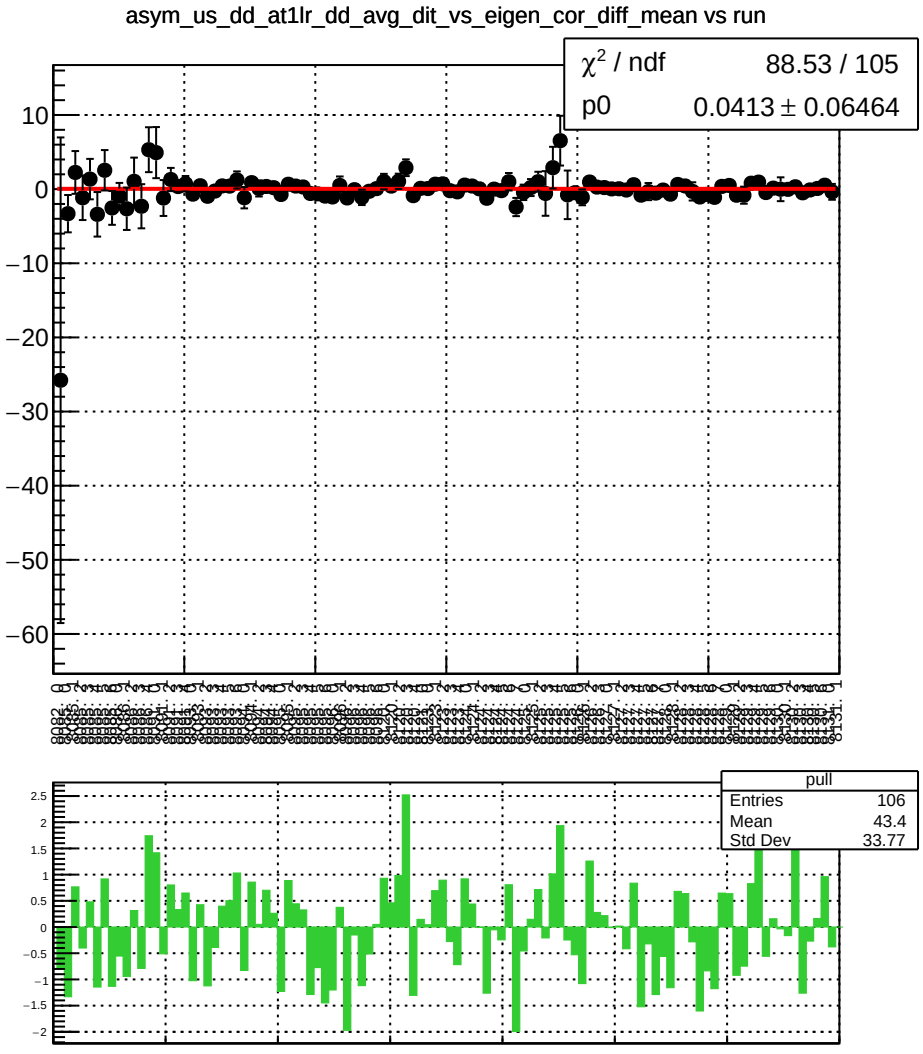

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 66.71 / 105
p0 −1.831e−14 ± 1.701e−13
0.02
0.01
0
−0.01
−0.02
pull
Entries 106
Mean 232.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 106
Mean 0.0325
Std Dev 0.7926
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

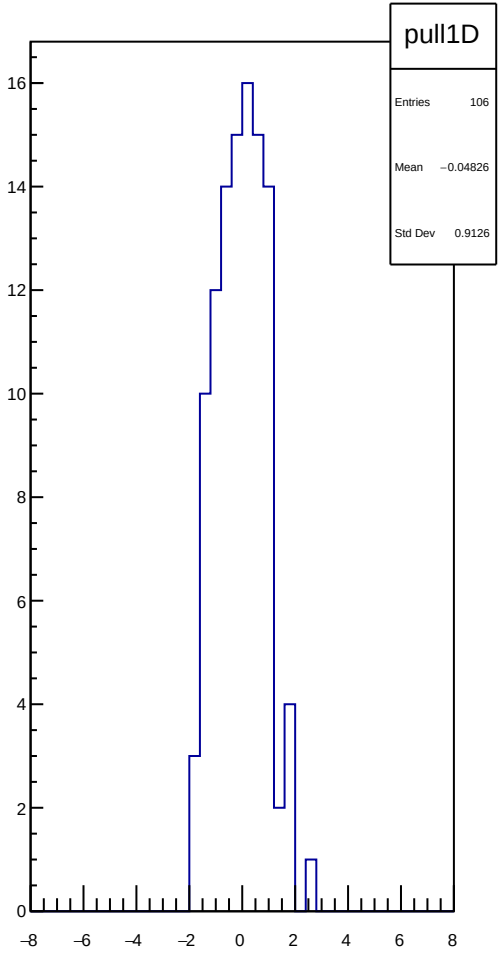

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.094e+06 / 105
p0 1.159e−10 ± 1.203e−13
1.2
1
0.8
0.6
0.4
0.2
0

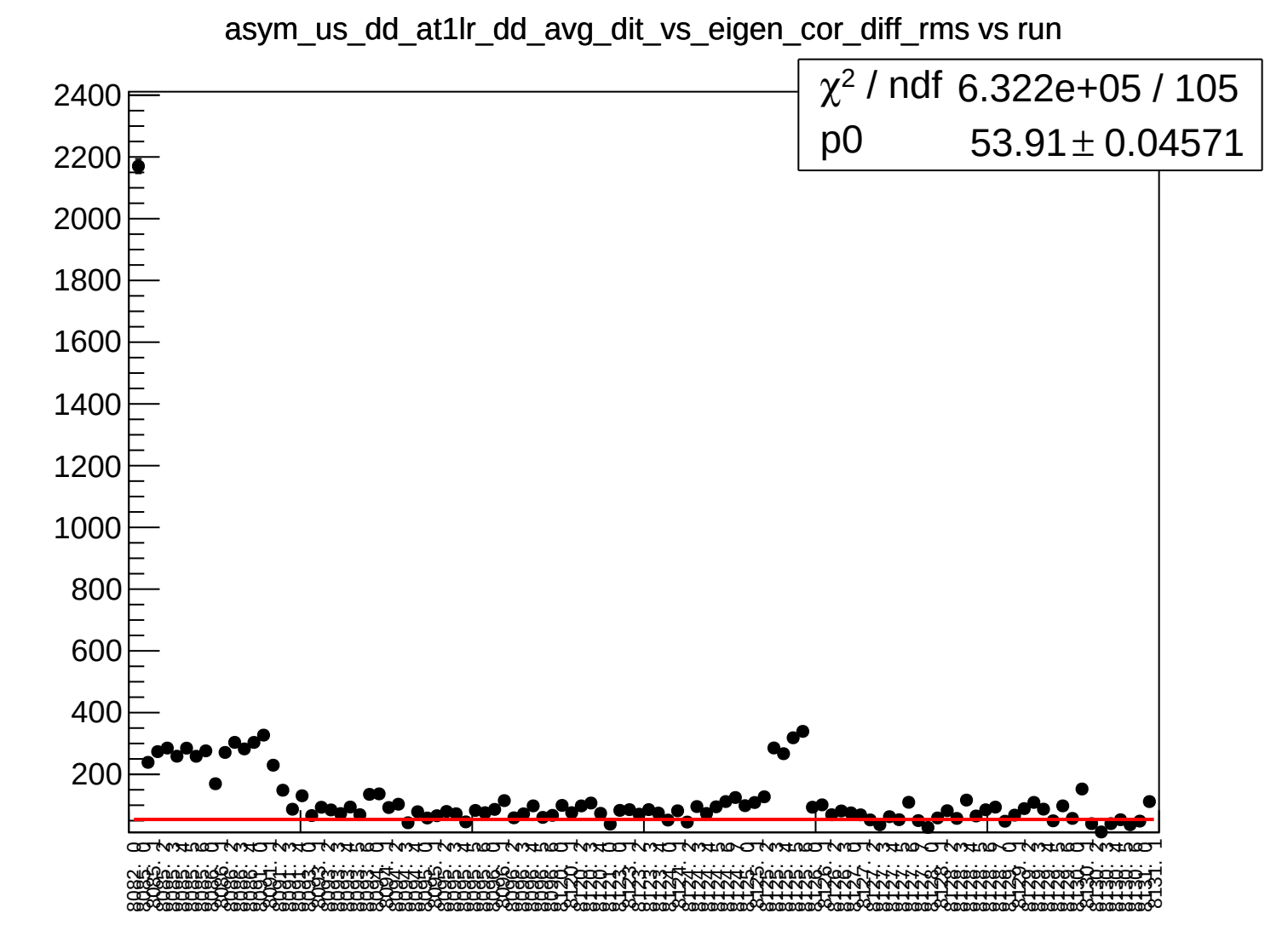

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 88.53 / 105
p0 0.0413 ± 0.06464
pull
Entries 106
Mean 43.4
Std Dev 33.77

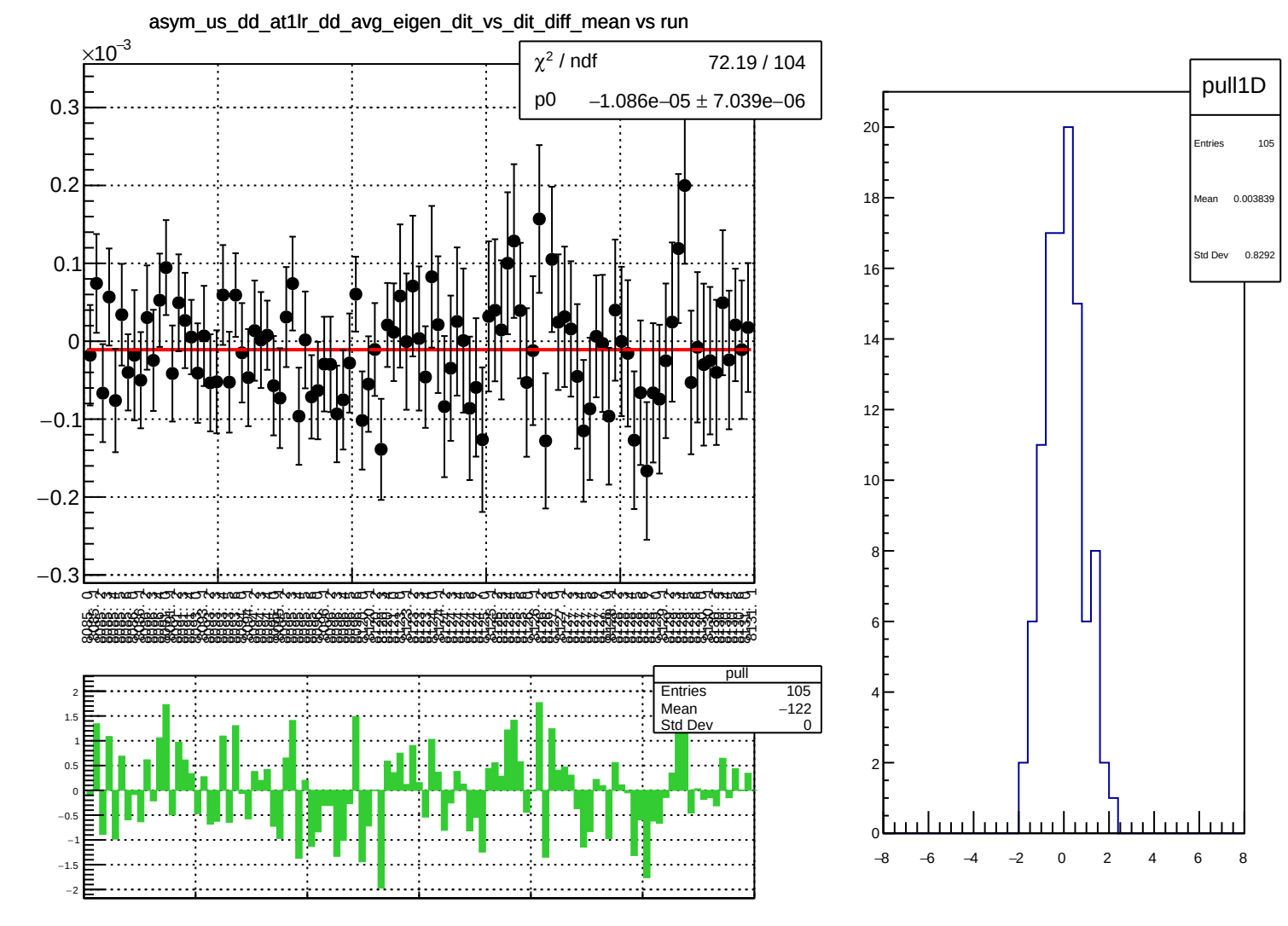

pull1D
Entries 106
Mean −0.04826
Std Dev 0.9126

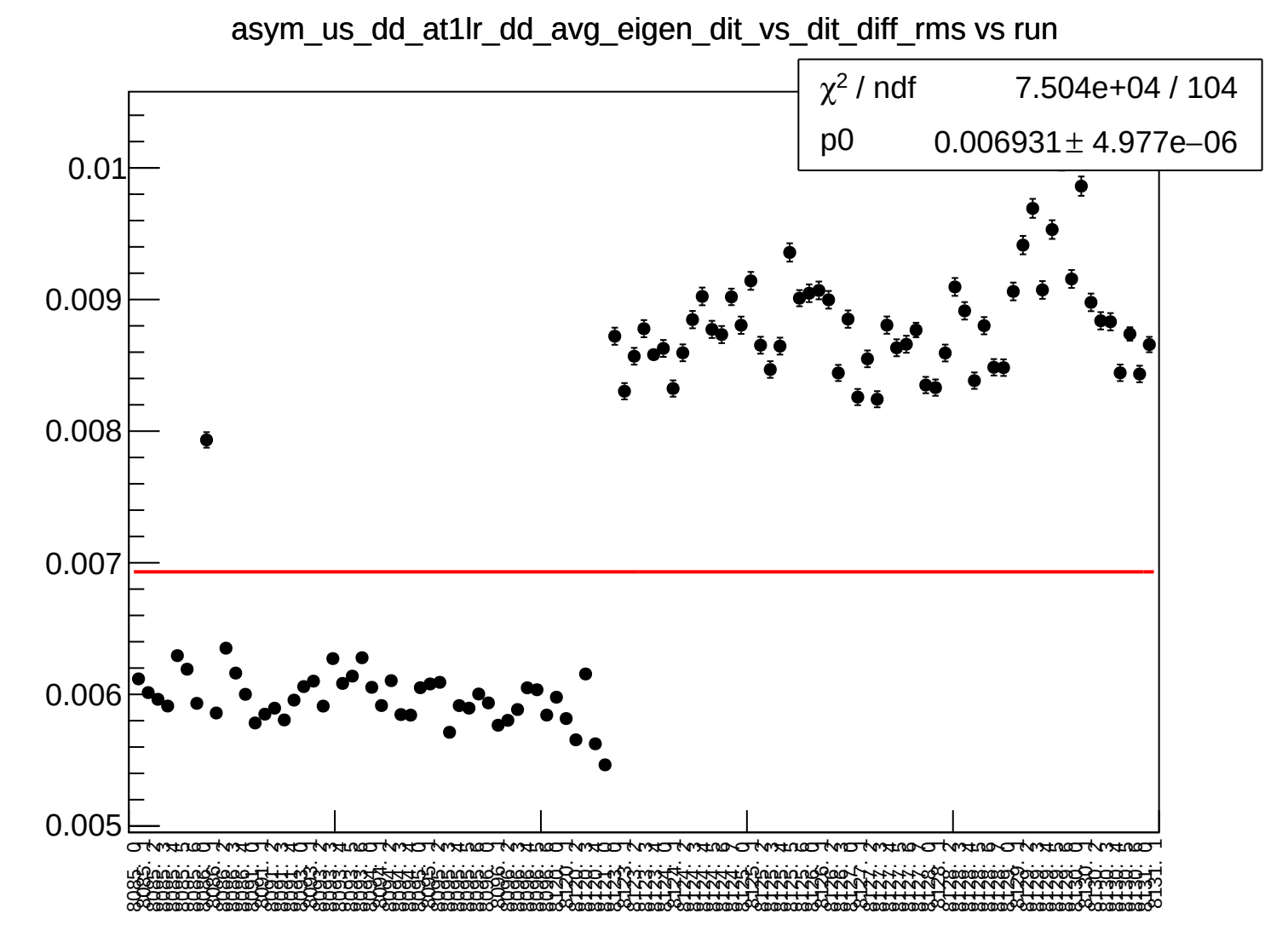

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 6.322e+05 / 105
p0 53.91 ± 0.04571
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

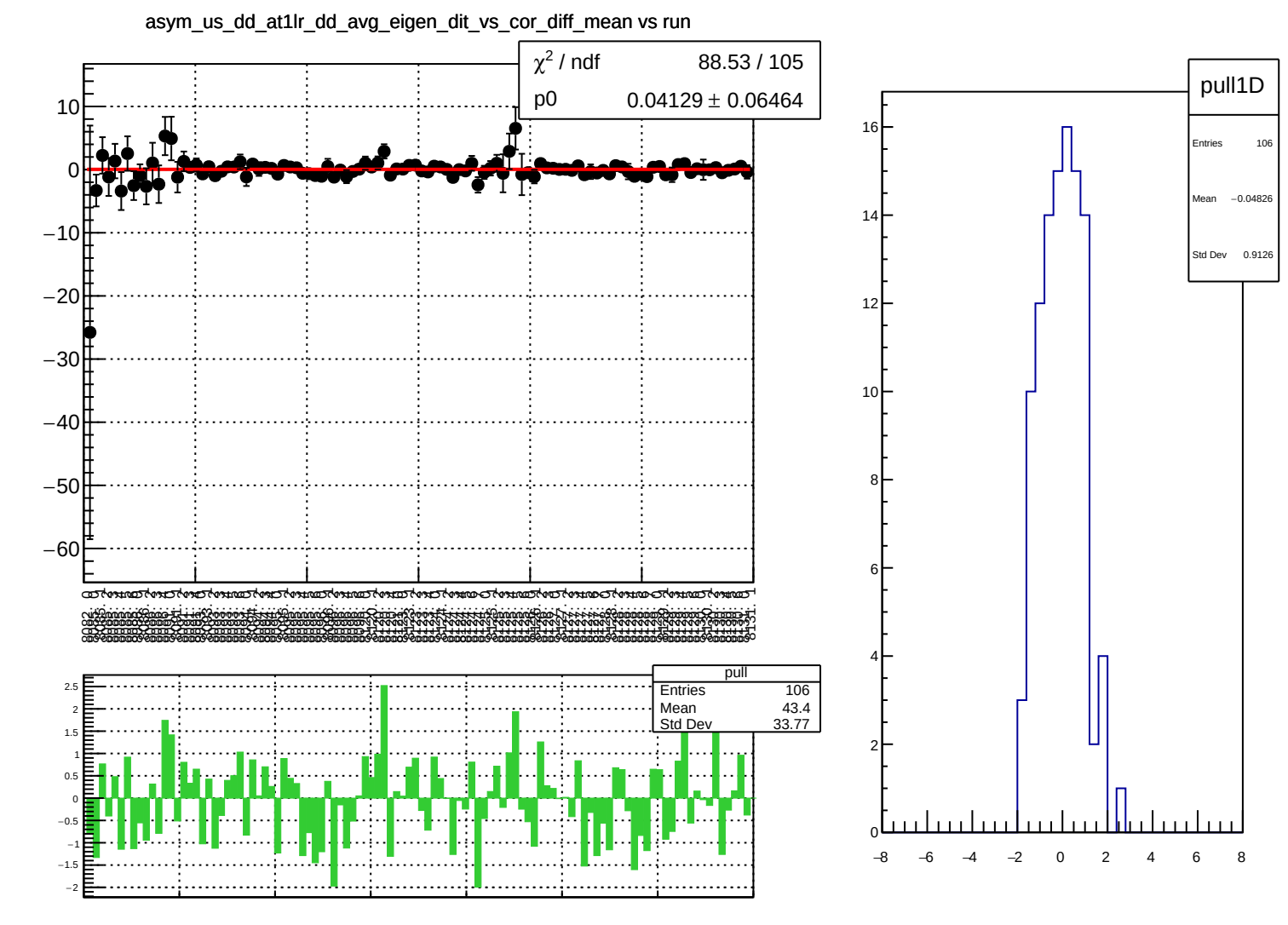

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.53 / 105
p0 0.0413 ± 0.06464
pull
Entries 106
Mean 43.4
Std Dev 33.77

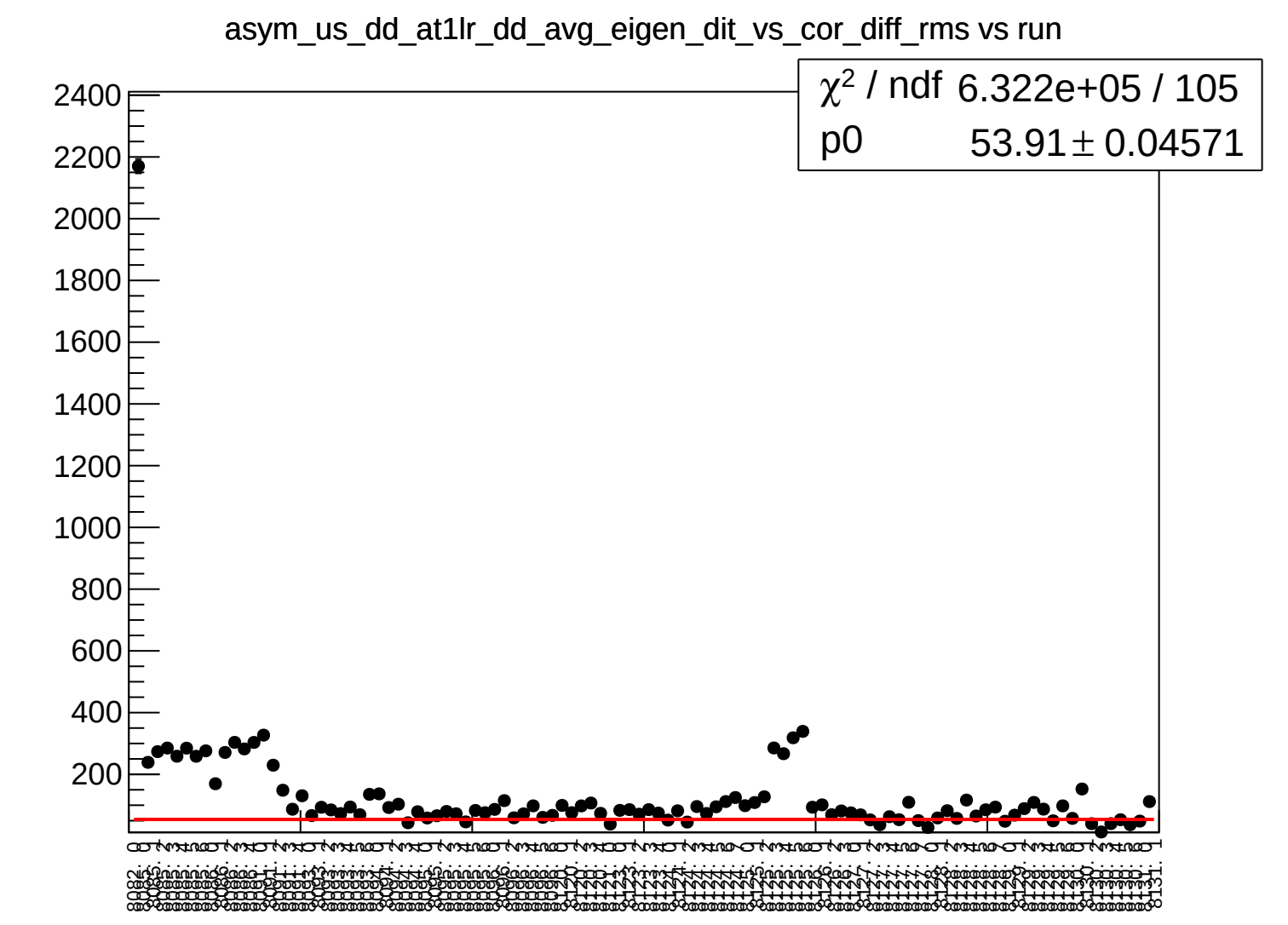

pull1D
Entries 106
Mean −0.04826
Std Dev 0.9126

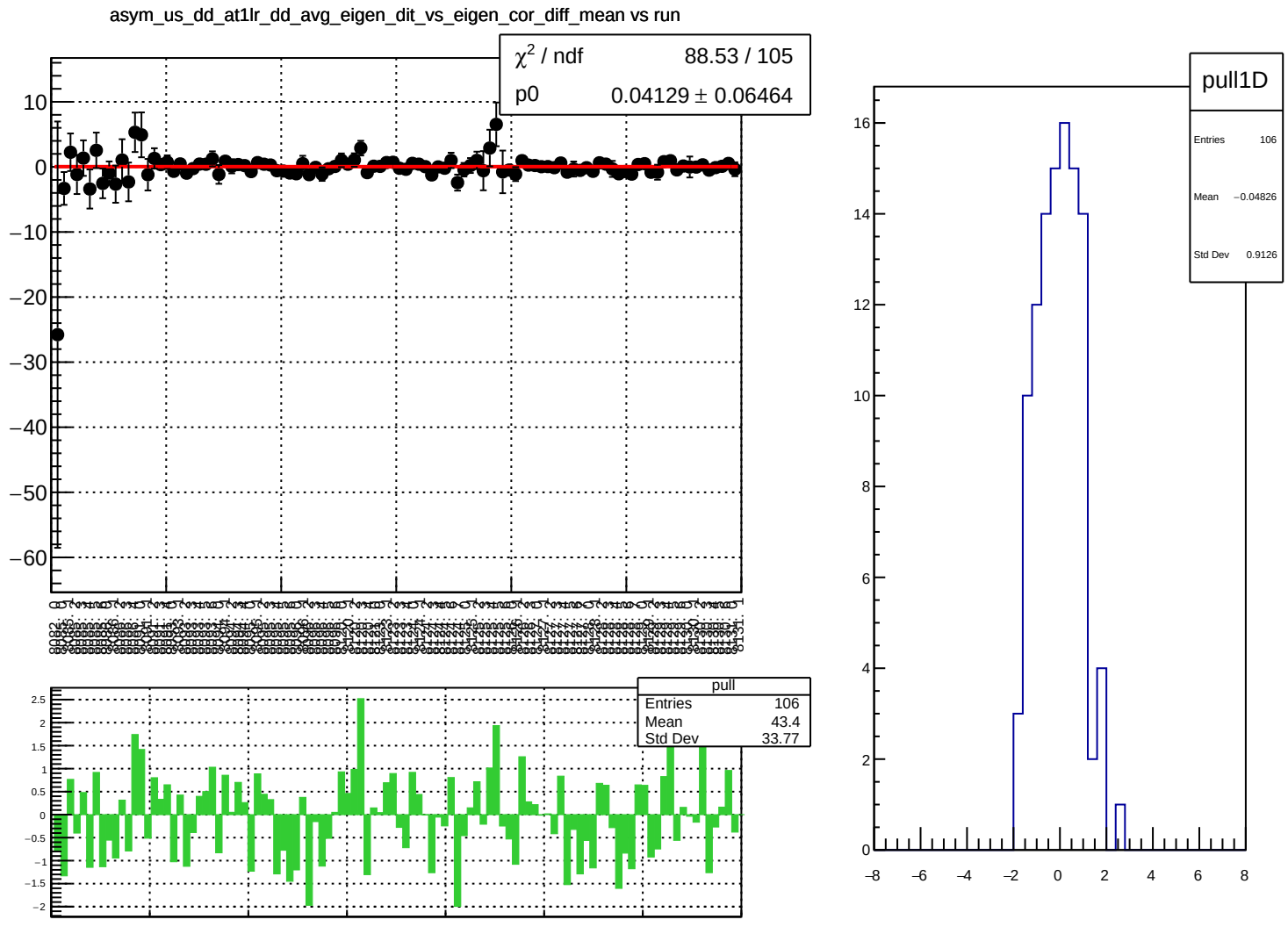

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.322e+05 / 105
p0 53.91 ± 0.04571
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

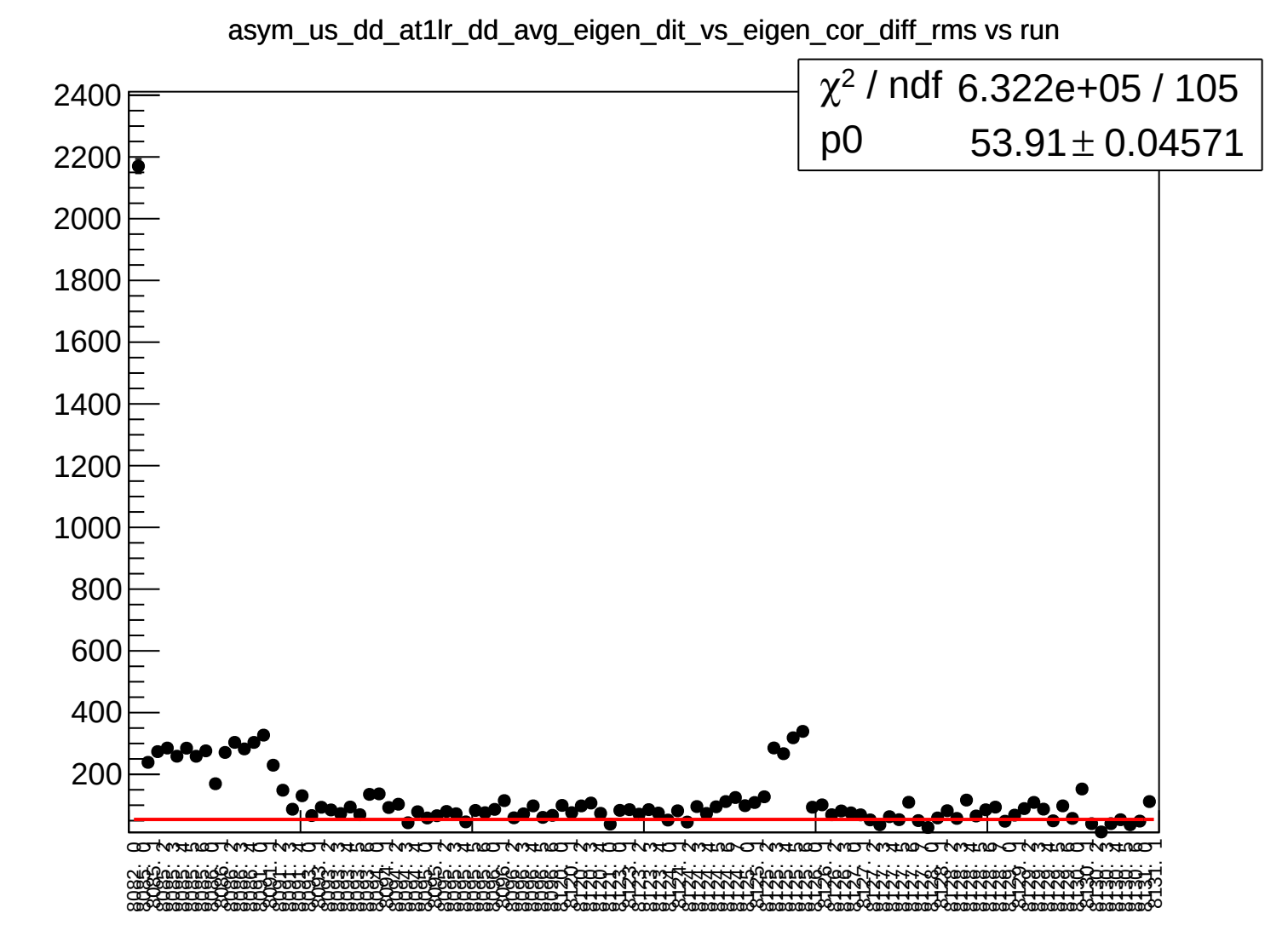

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 72.19 / 104
p0 −1.086e−05 ± 7.039e−06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 105
Mean −122
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 105
Mean 0.003839
Std Dev 0.8292
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

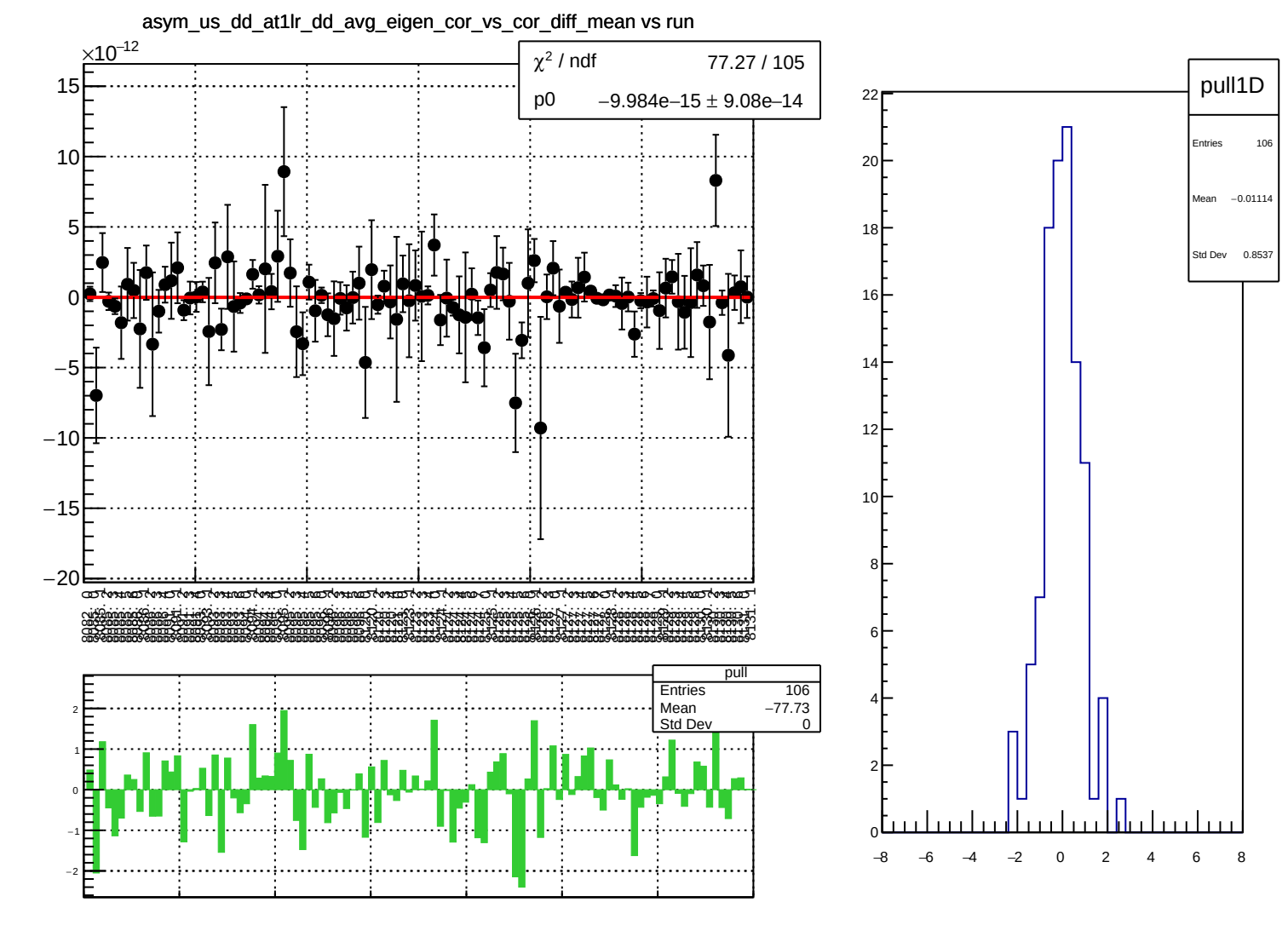

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.504e+04 / 104
p0 0.006931 ± 4.977e−06
0.01
0.009
0.008
0.007
0.006
0.005

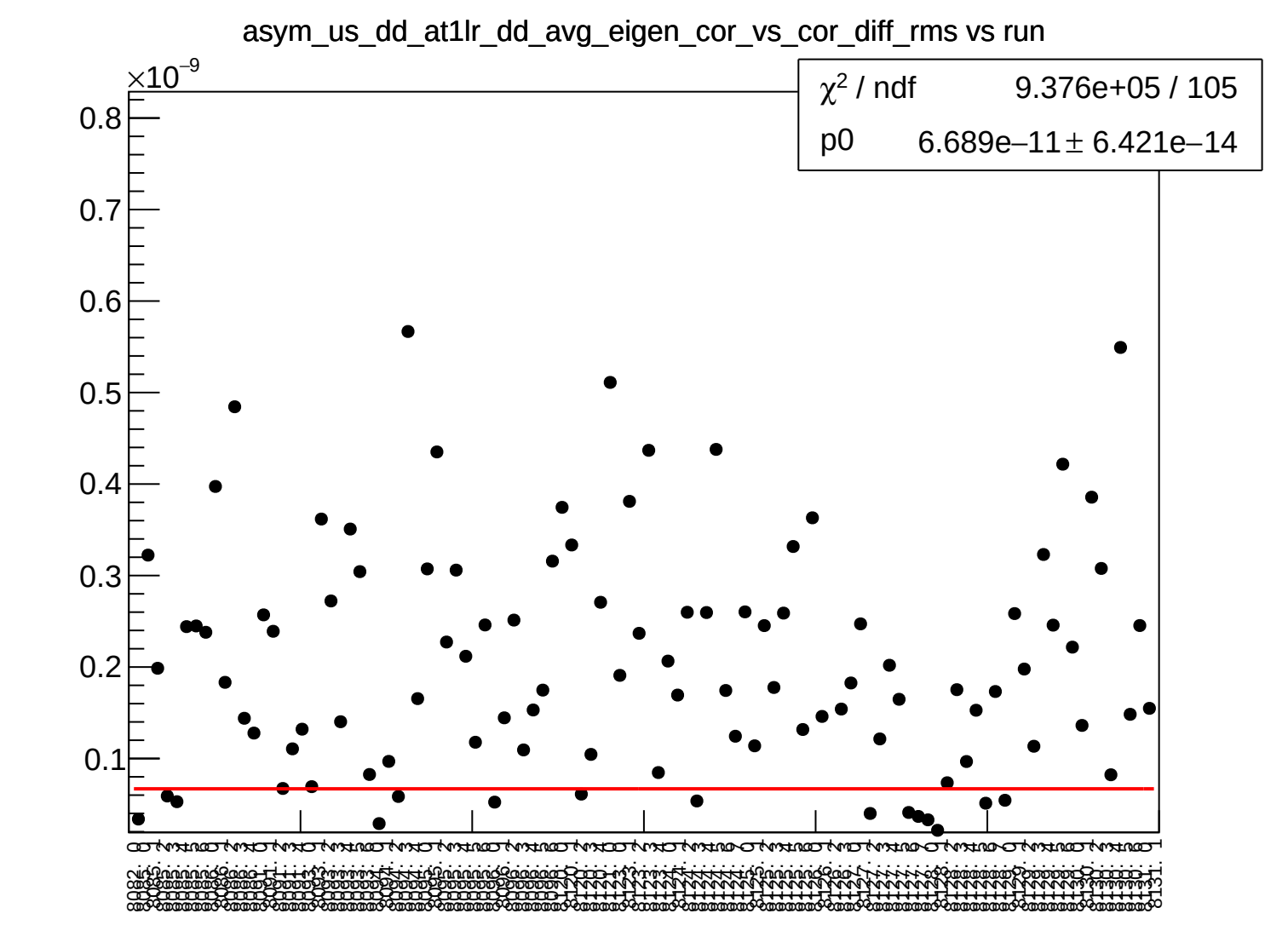

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 88.53 / 105
p0 0.04129 ± 0.06464
pull
Entries 106
Mean 43.4
Std Dev 33.77
pull1D
Entries 106
Mean −0.04826
Std Dev 0.9126

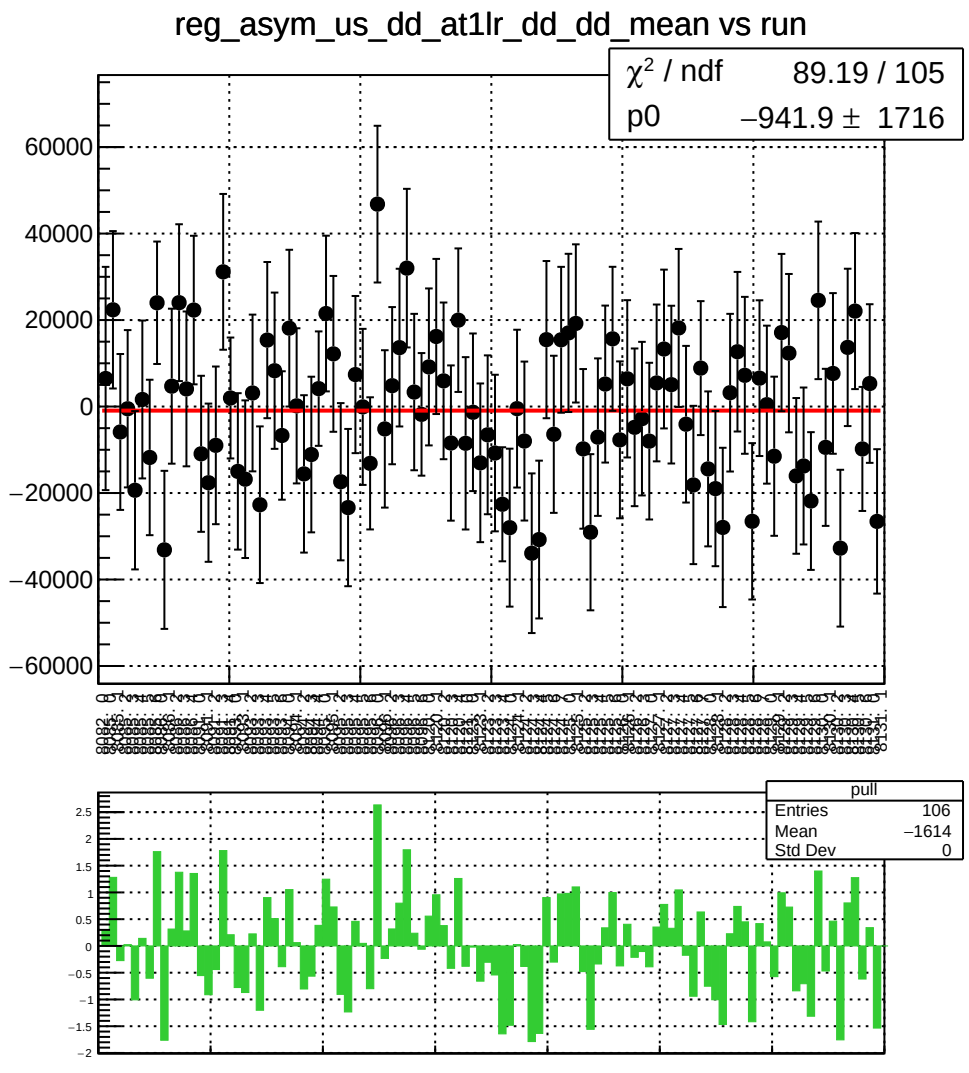

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.322e+05 / 105
p0 53.91 ± 0.04571
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

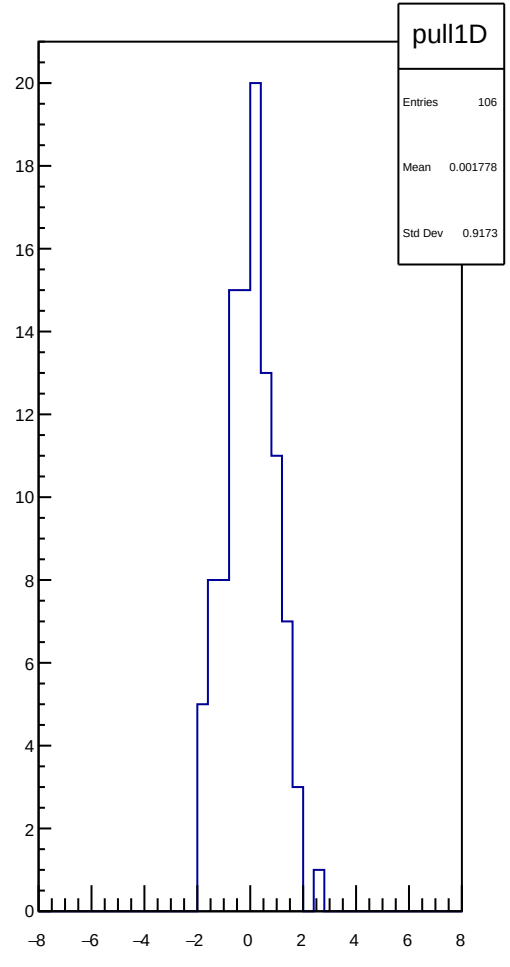

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 88.53 / 105
p0 0.04129 ± 0.06464
pull
Entries 106
Mean 43.4
Std Dev 33.77
pull1D
Entries 106
Mean −0.04826
Std Dev 0.9126

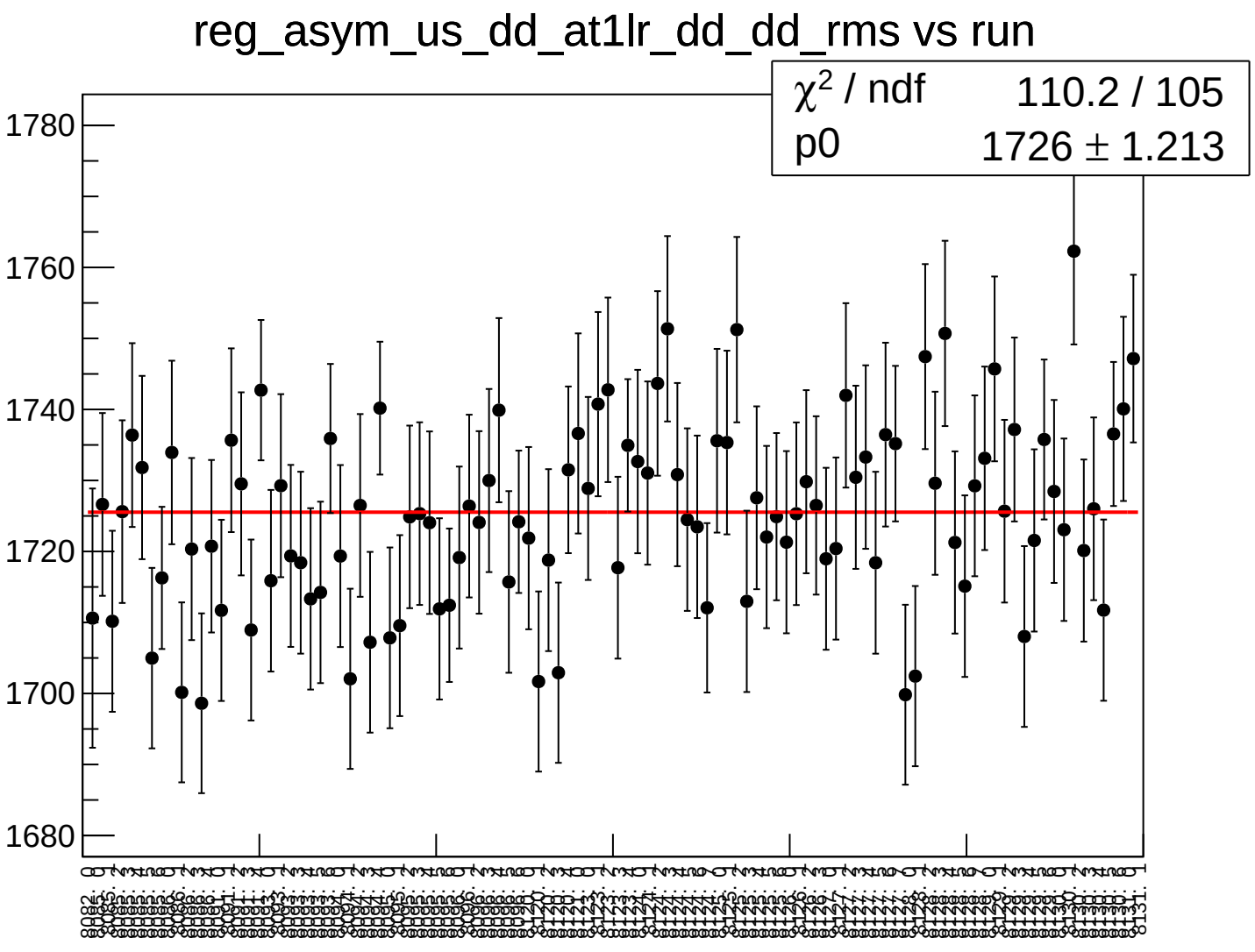

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.322e+05 / 105
p0 53.91 ± 0.04571
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

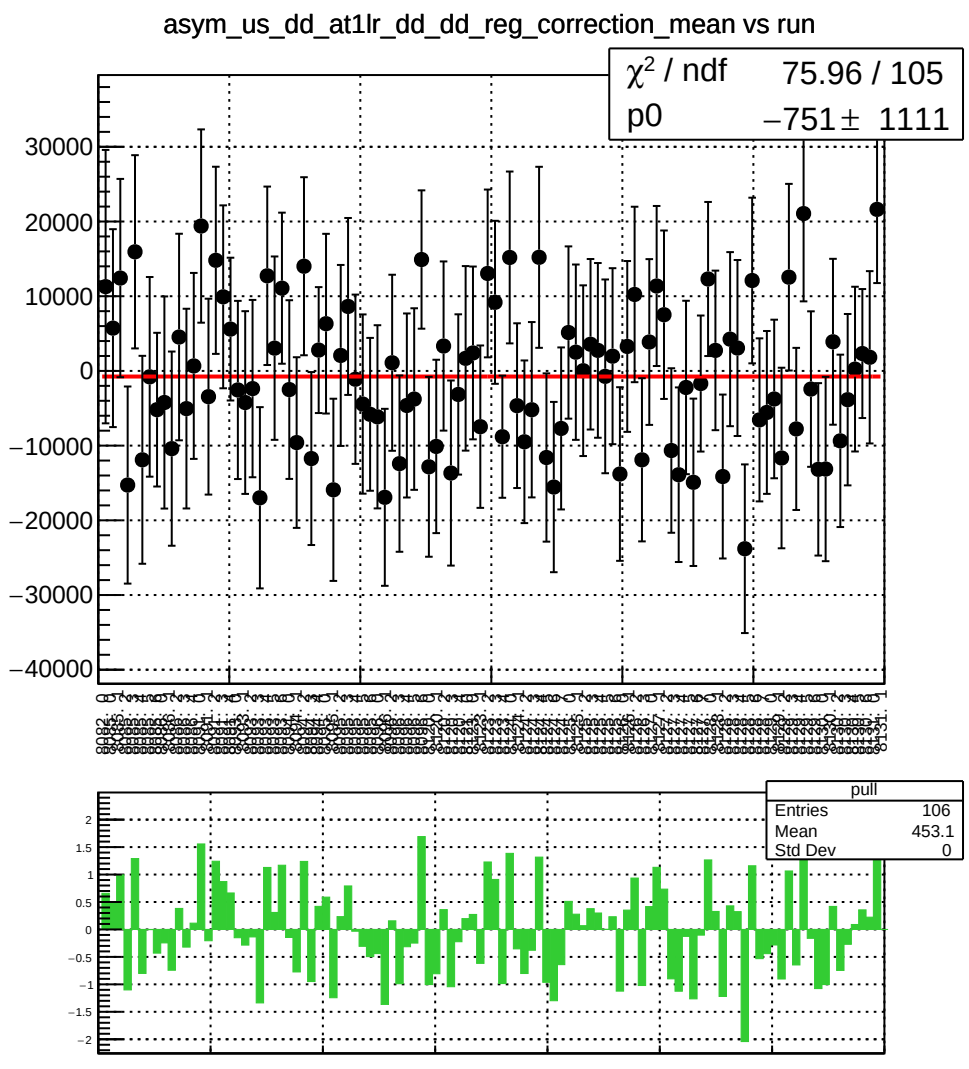

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.27 / 105
p0 −9.984e−15 ± 9.08e−14
pull
Entries 106
Mean −77.73
Std Dev 0
pull1D
Entries 106
Mean −0.01114
Std Dev 0.8537

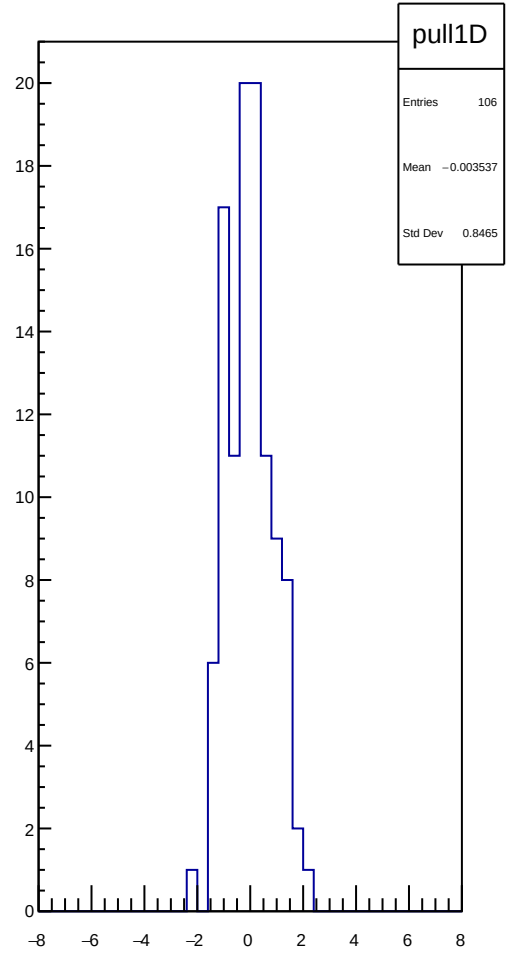

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
χ² / ndf 9.376e+05 / 105
p0 6.689e−11 ± 6.421e−14

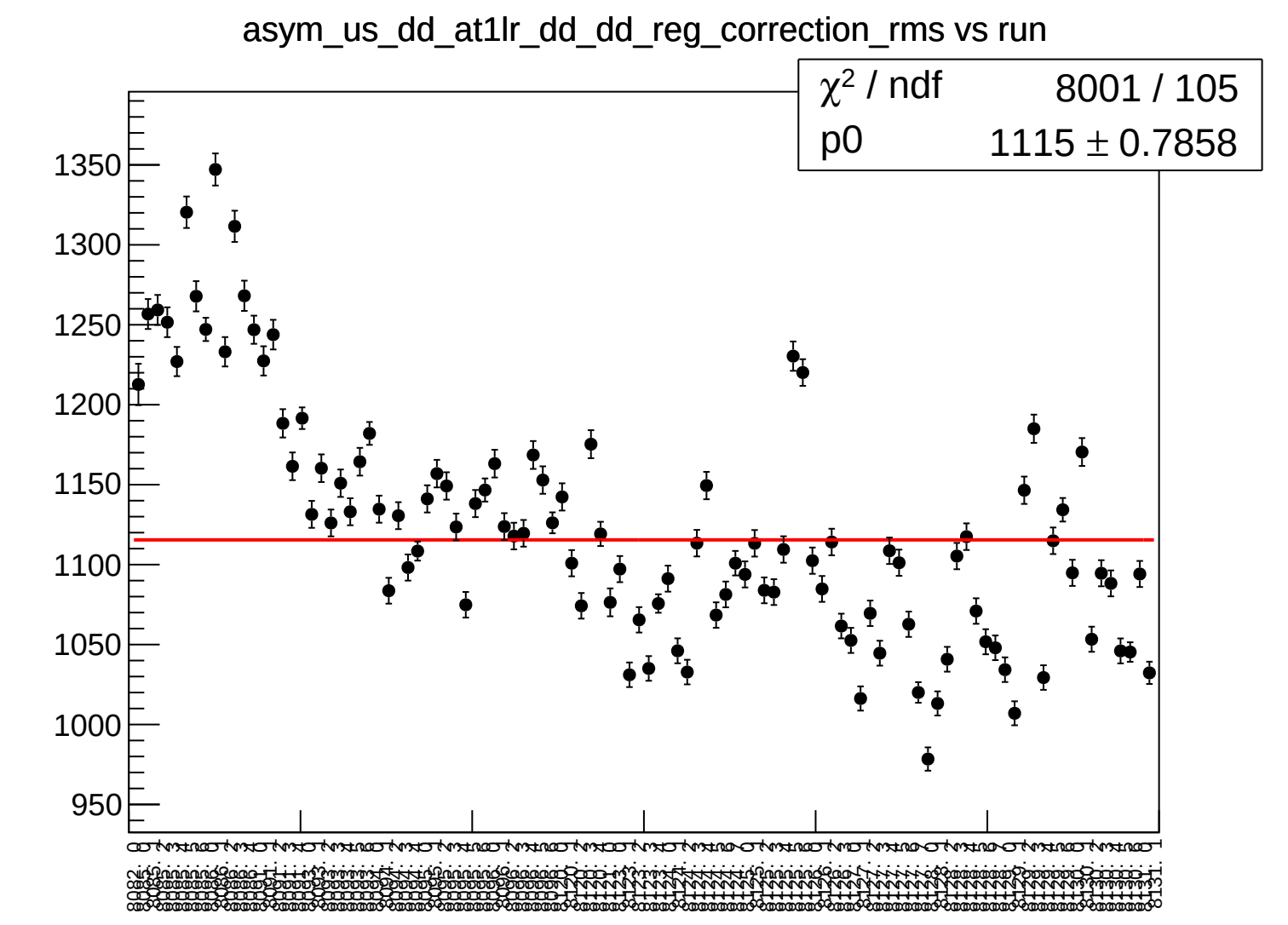

reg_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 89.19 / 105
p0 −941.9 ± 1716
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean −1614
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

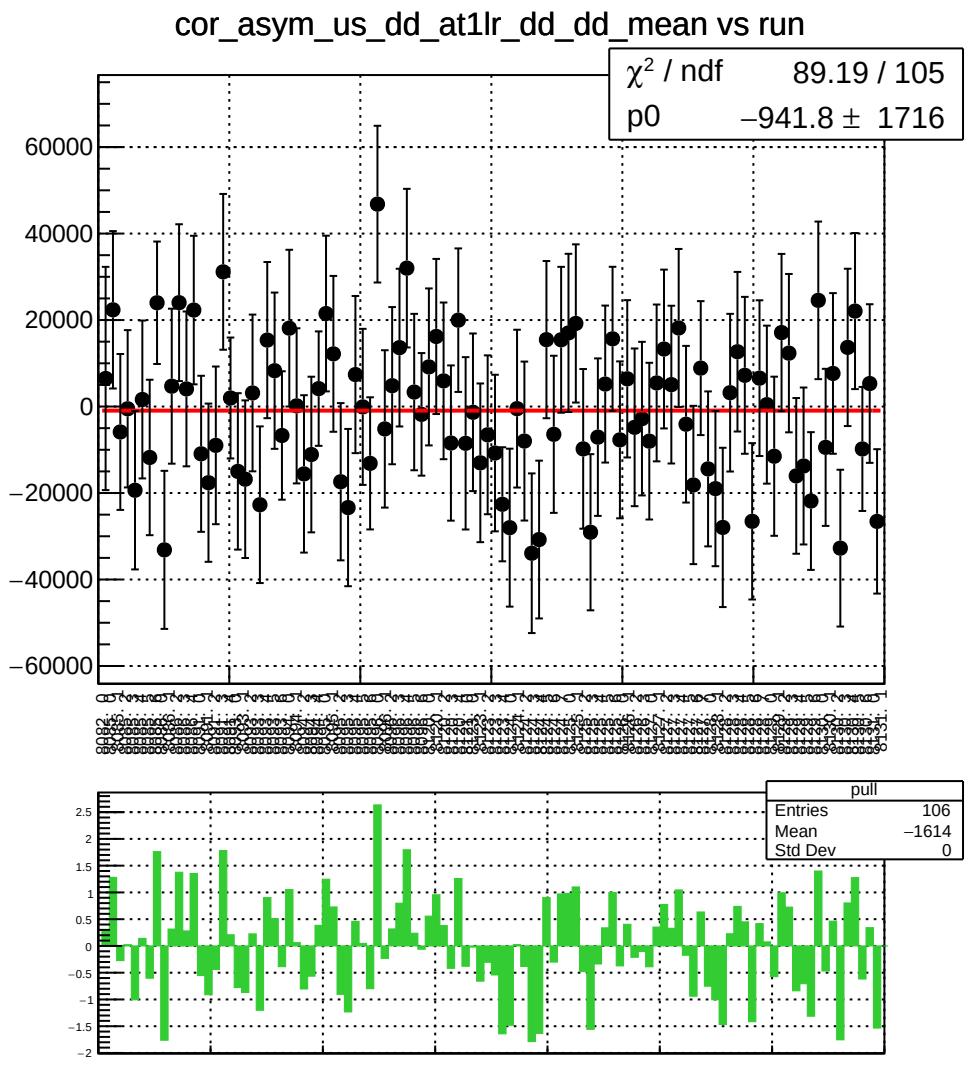

pull1D
Entries 106
Mean 0.001778
Std Dev 0.9173
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

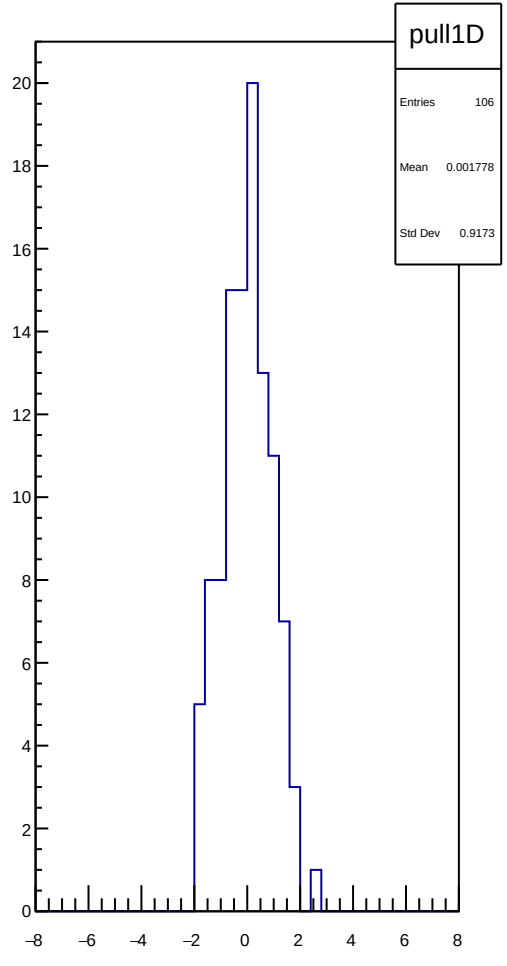

reg_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 110.2 / 105
p0 1726 ± 1.213
1780
1760
1740
1720
1700
1680

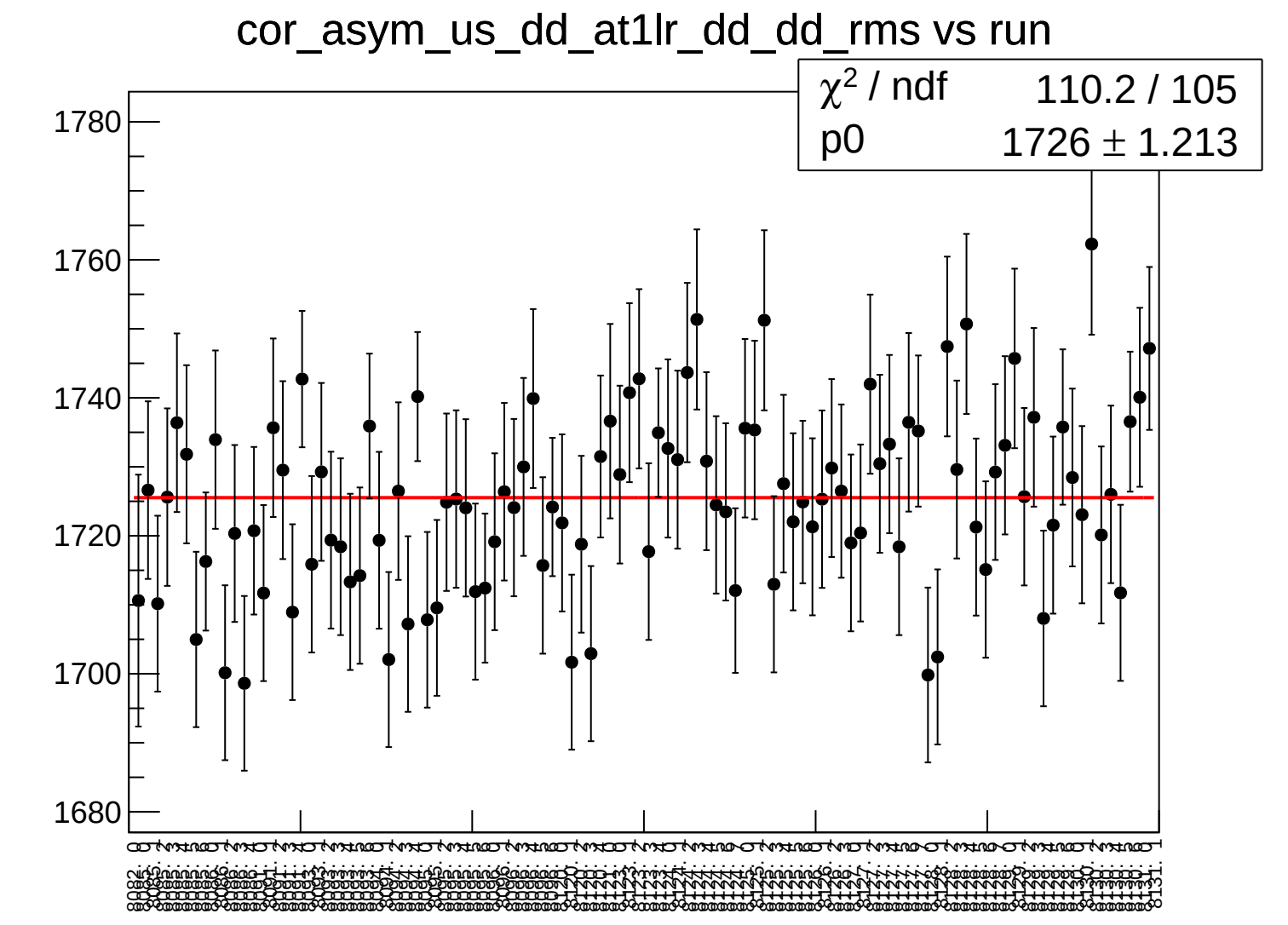

asym_us_dd_at1lr_dd_dd_reg_correction_mean vs run
χ² / ndf 75.96 / 105
p0 −751 ± 1111
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 106
Mean 453.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

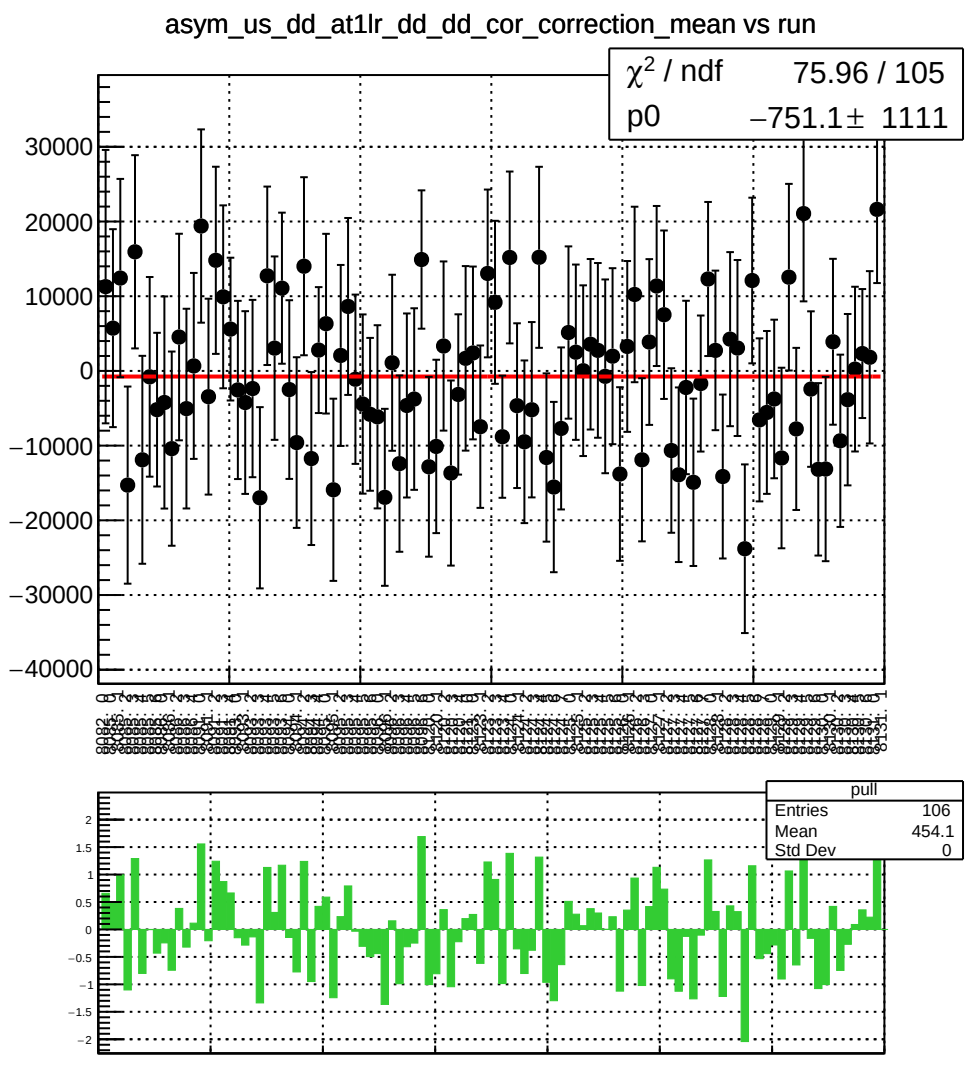

pull1D
Entries 106
Mean −0.003537
Std Dev 0.8465
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

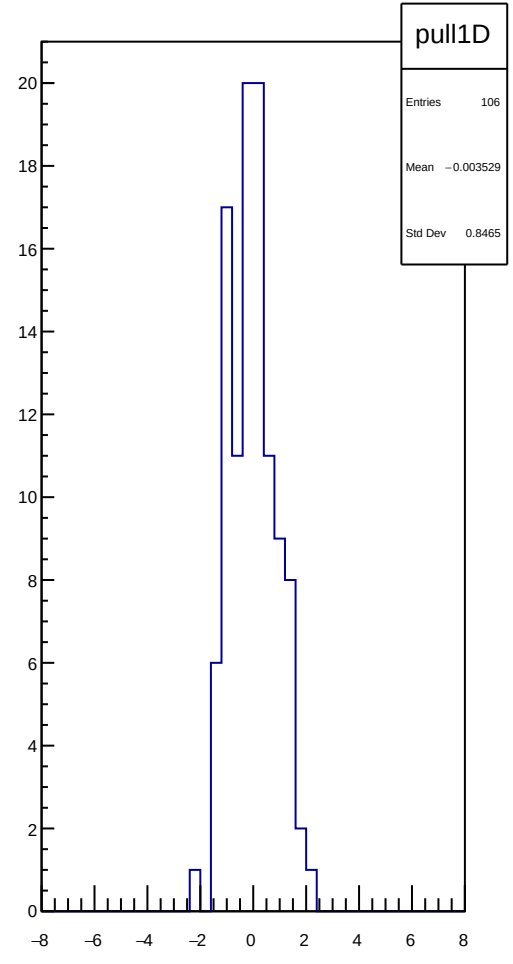

asym_us_dd_at1lr_dd_dd_reg_correction_rms vs run
χ² / ndf 8001 / 105
p0 1115 ± 0.7858
1350
1300
1250
1200
1150
1100
1050
1000
950

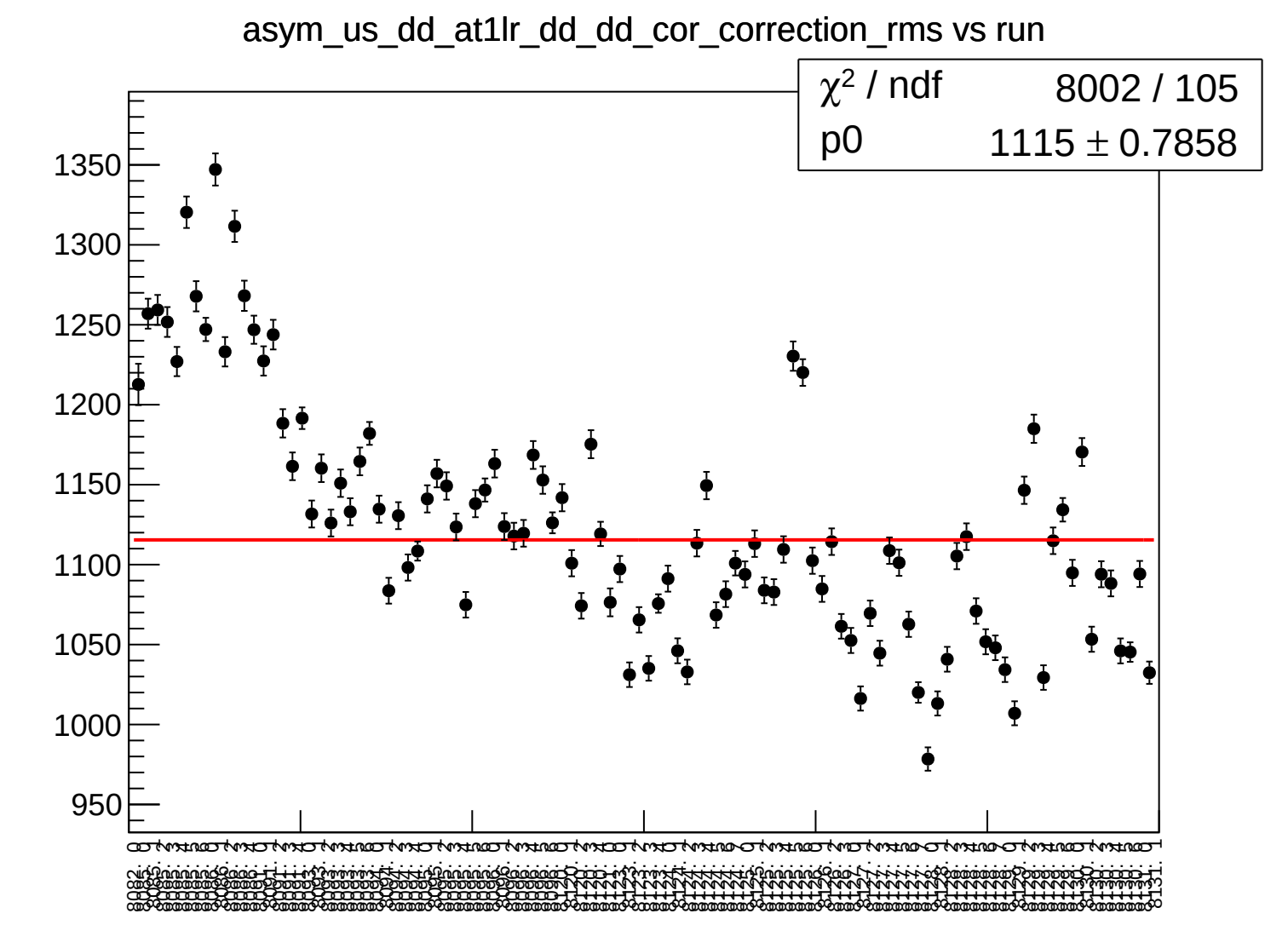

cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 89.19 / 105
p0 −941.8 ± 1716
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean −1614
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

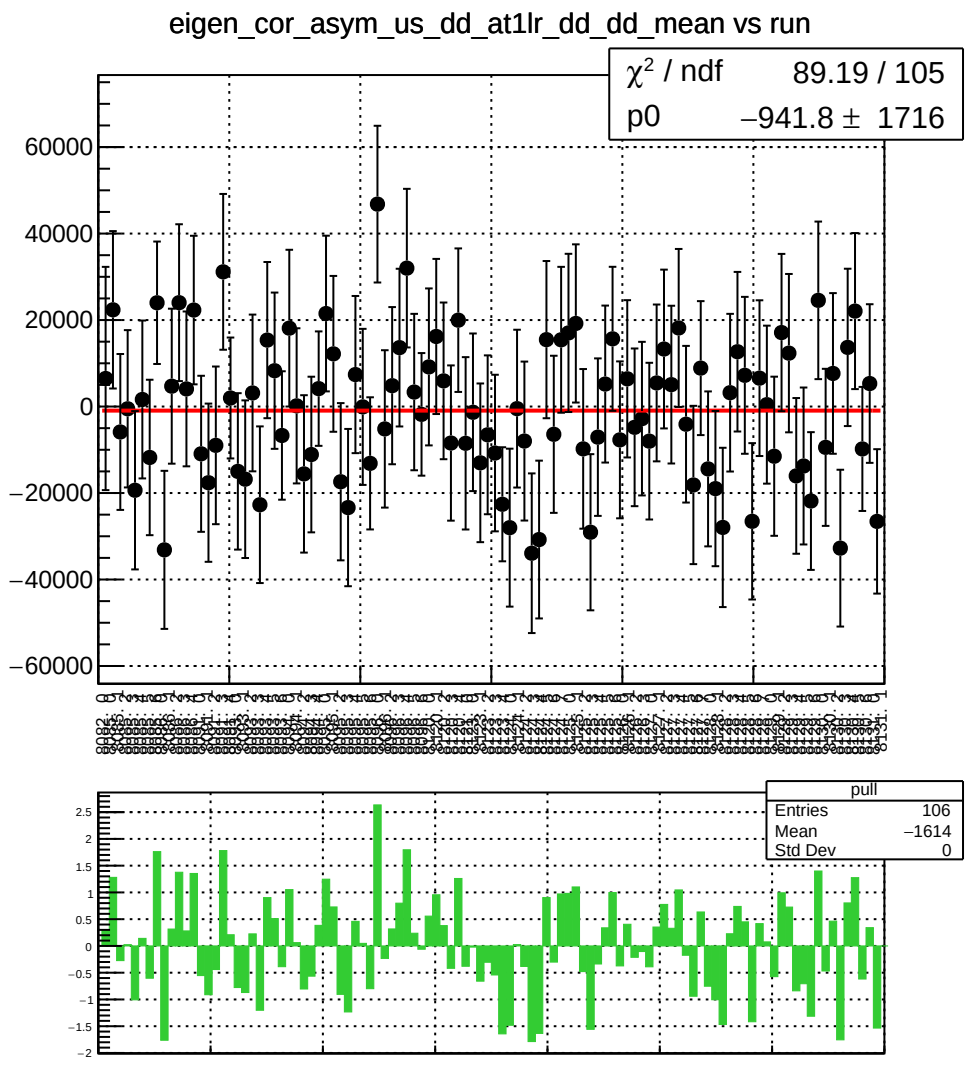

pull1D
Entries 106
Mean 0.001778
Std Dev 0.9173
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

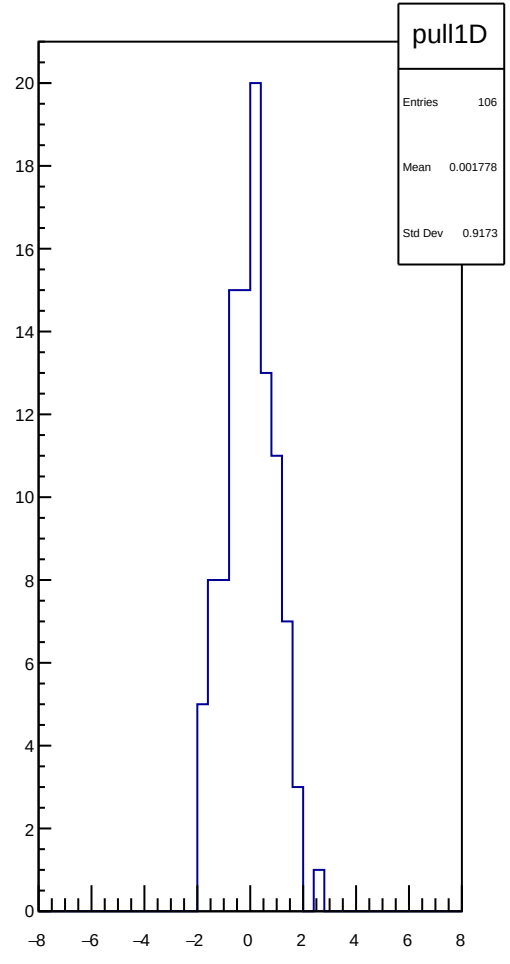

cor_asym_us_dd_at1lr_dd_dd_rms vs run
$\chi^2$ / ndf 110.2 / 105
p0 1726 ± 1.213
1780
1760
1740
1720
1700
1680

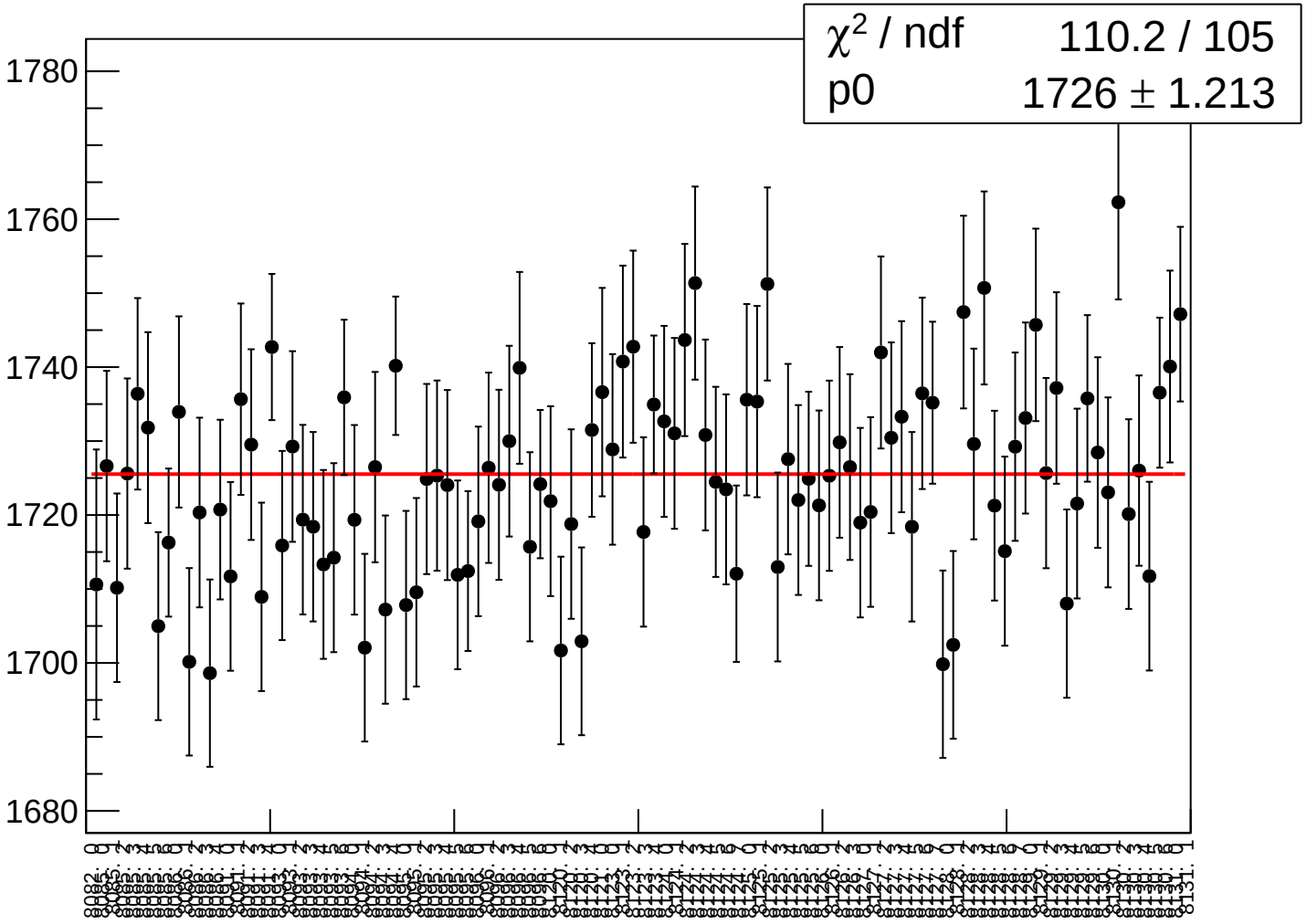

asym_us_dd_at1lr_dd_dd_cor_correction_mean vs run
χ² / ndf 75.96 / 105
p0 −751.1± 1111
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 106
Mean 454.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

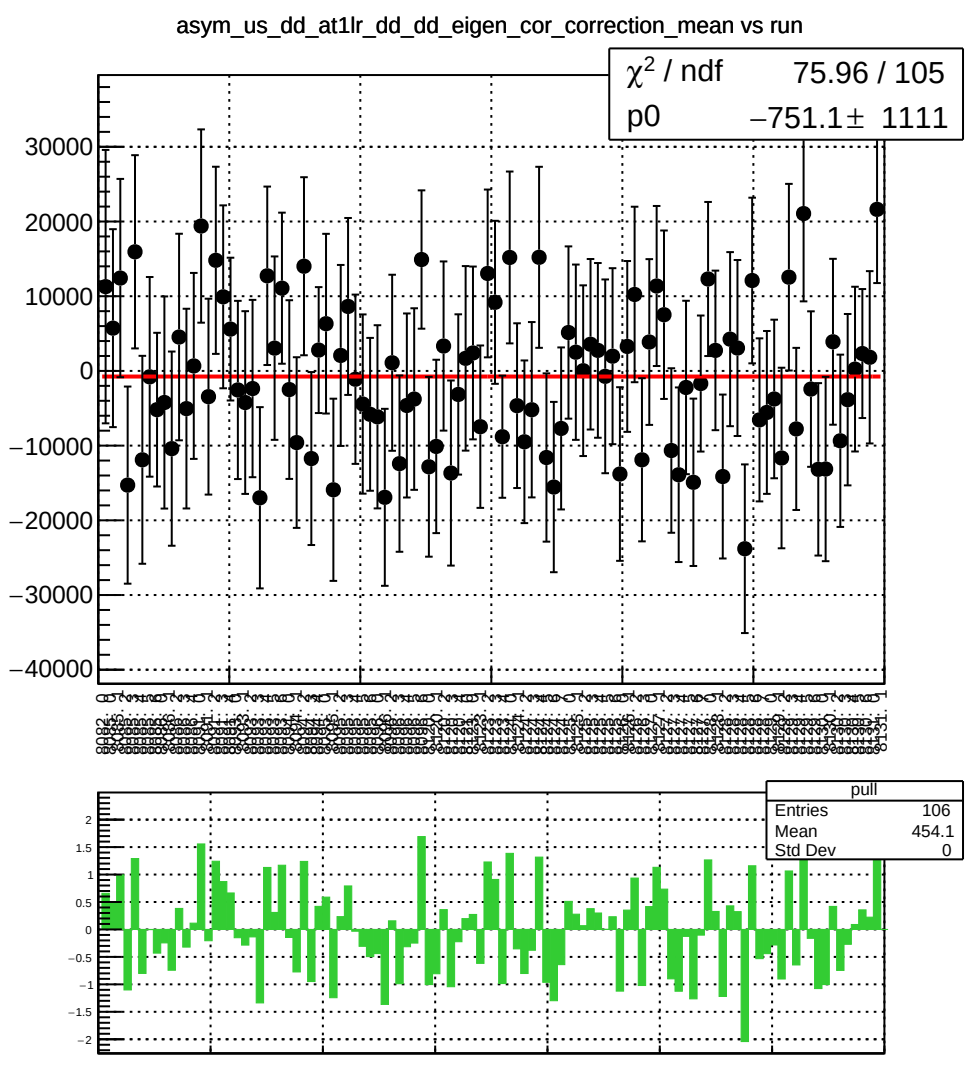

pull1D
Entries 106
Mean −0.003529
Std Dev 0.8465
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

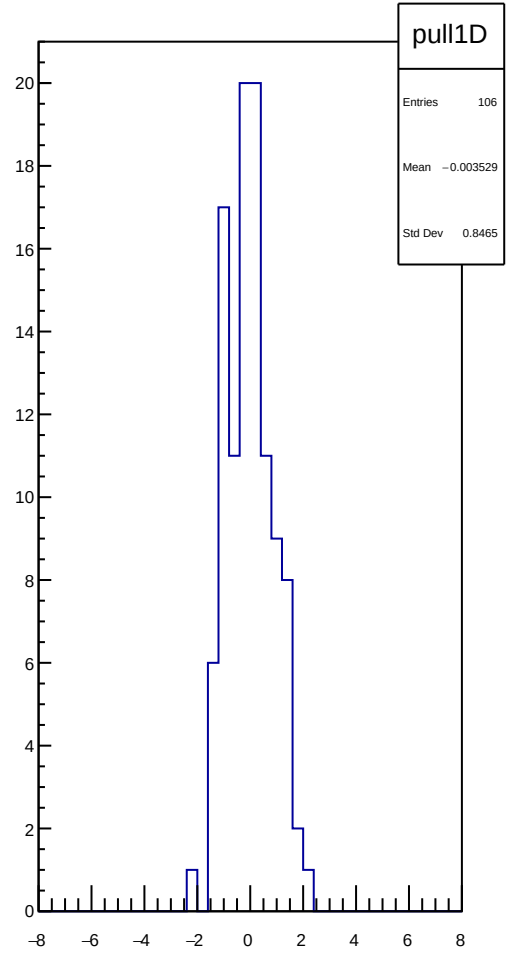

asym_us_dd_at1lr_dd_dd_cor_correction_rms vs run
χ² / ndf 8002 / 105
p0 1115 ± 0.7858
1350
1300
1250
1200
1150
1100
1050
1000
950

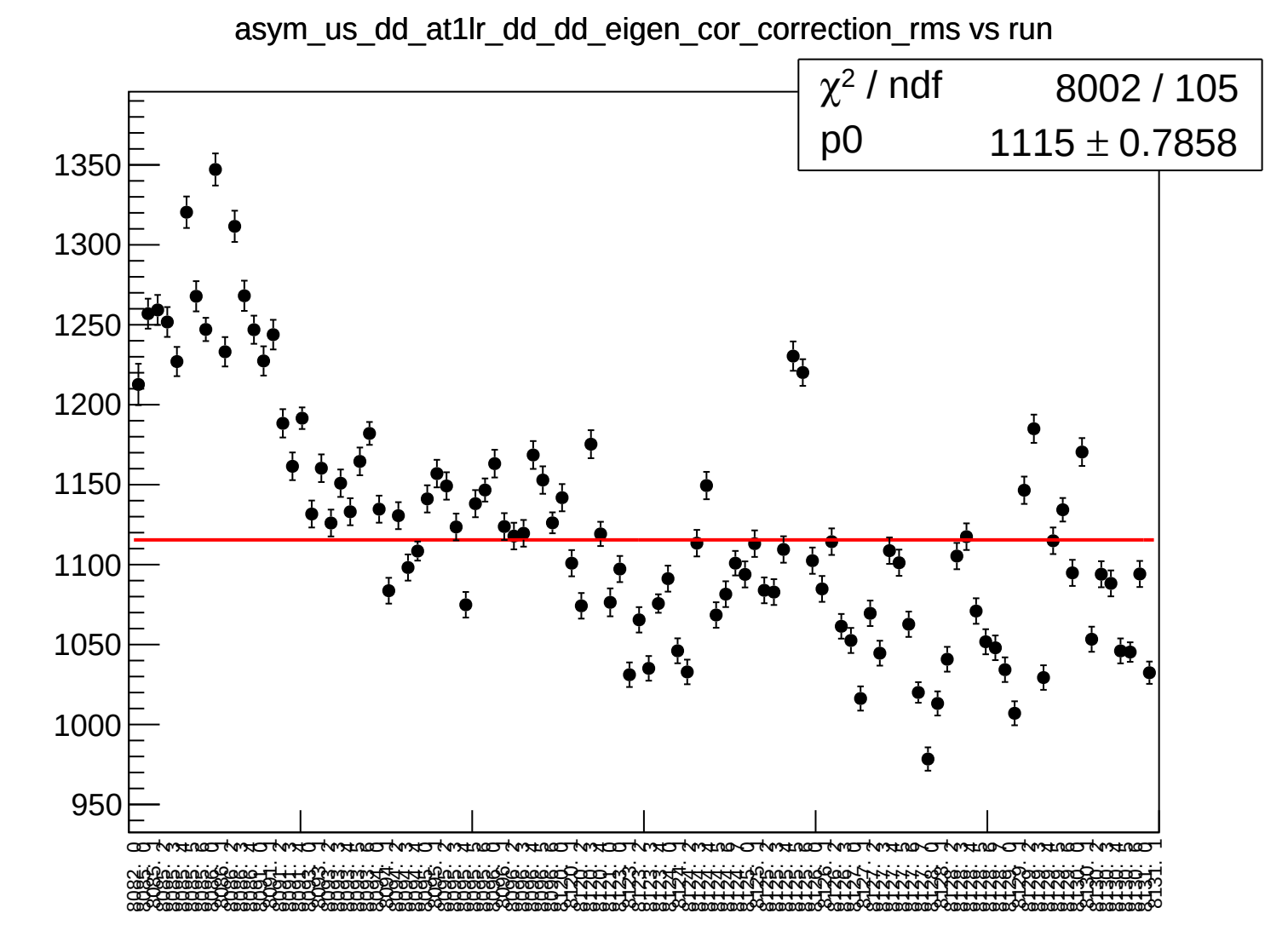

eigen_cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 89.19 / 105
p0 −941.8 ± 1716
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean −1614
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

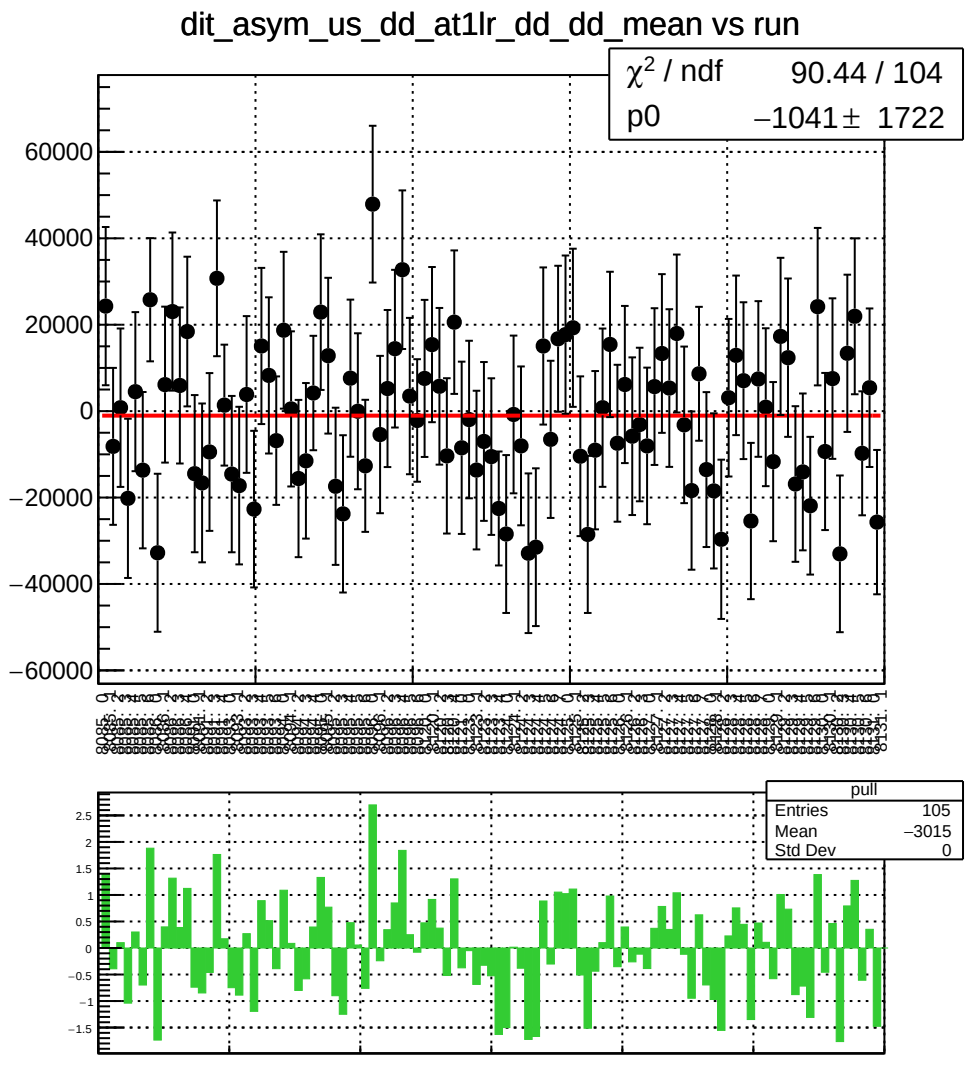

pull1D
Entries 106
Mean 0.001778
Std Dev 0.9173
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

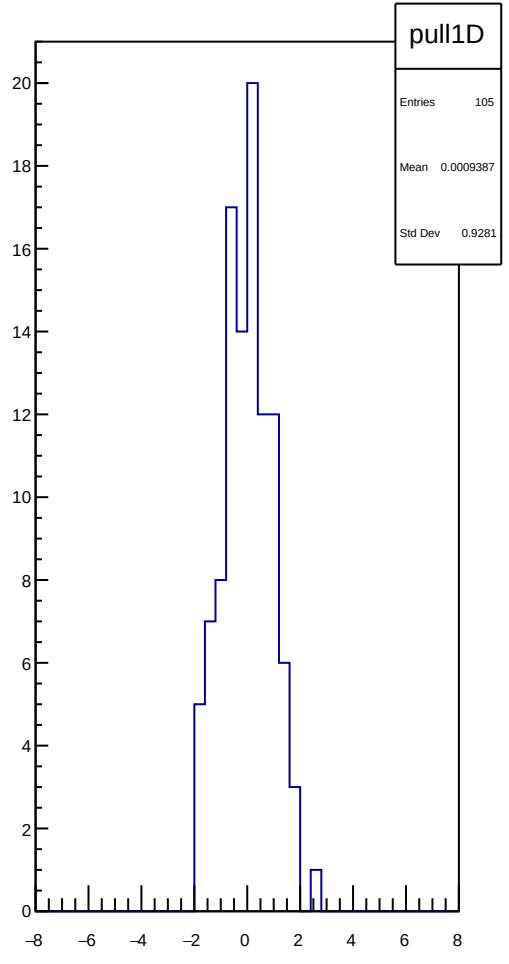

eigen_cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 110.2 / 105
p0 1726 ± 1.213
1780
1760
1740
1720
1700
1680

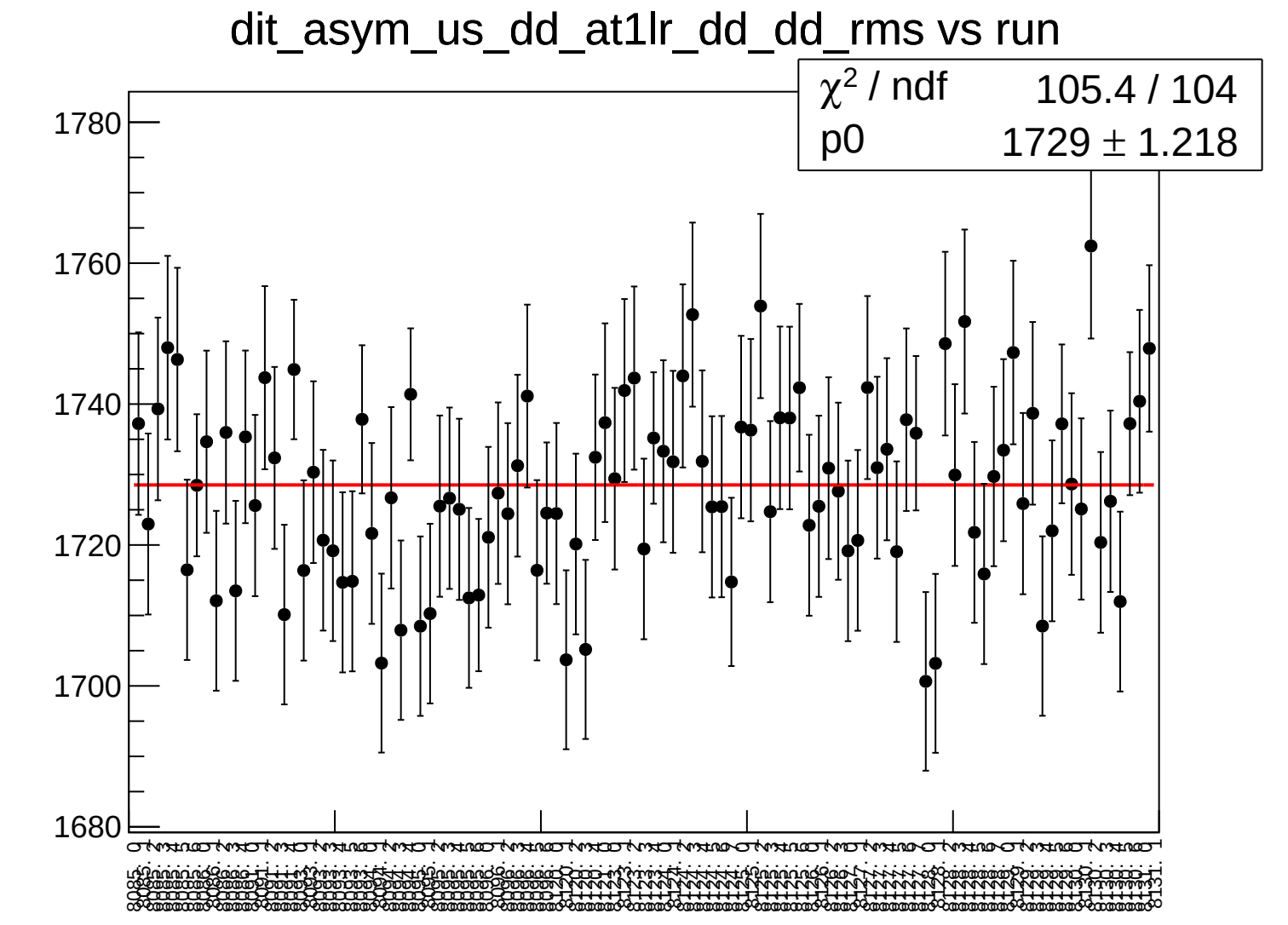

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 75.96 / 105
p0 −751.1± 1111
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 106
Mean 454.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

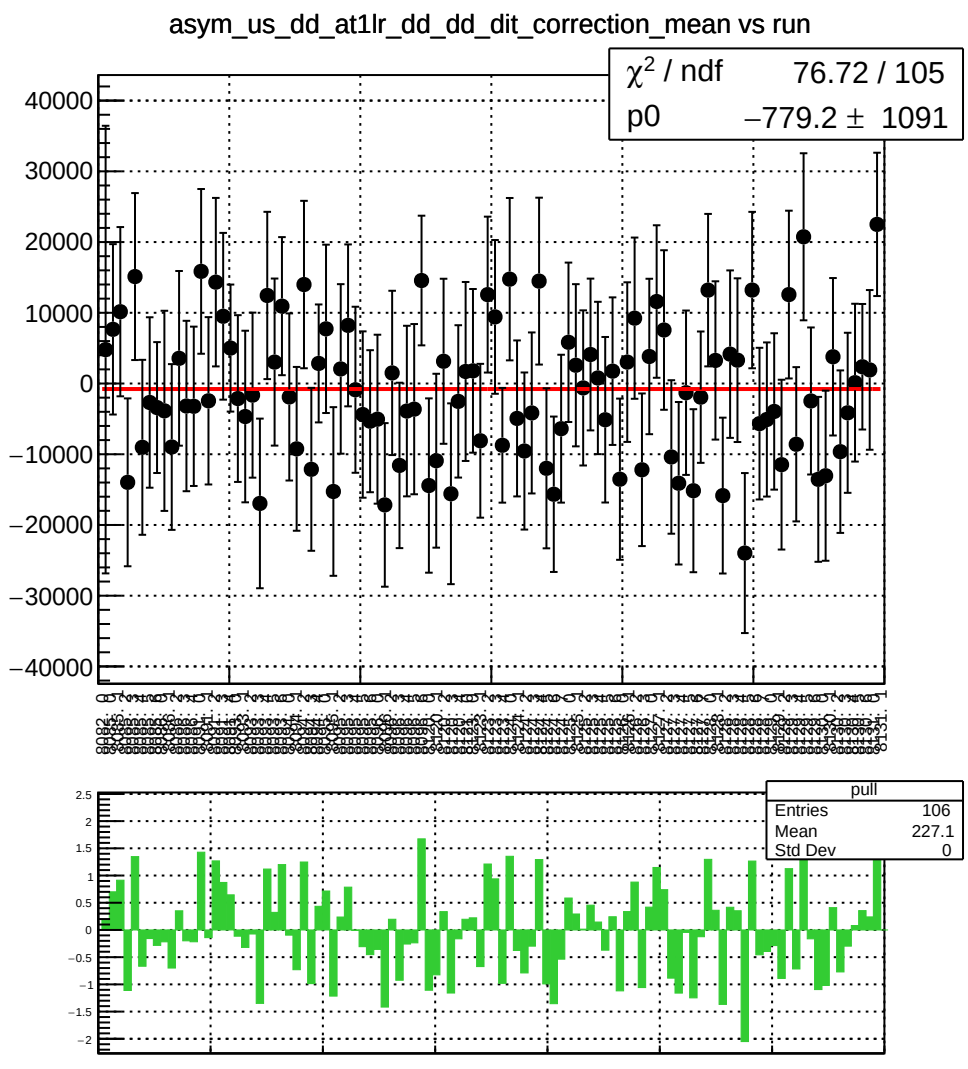

pull1D
Entries 106
Mean −0.003529
Std Dev 0.8465
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

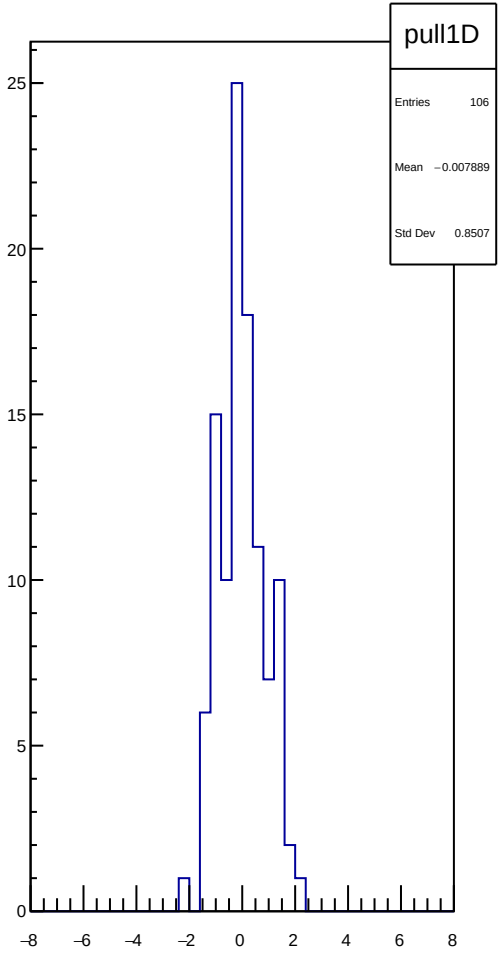

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 8002 / 105
p0 1115 ± 0.7858
1350
1300
1250
1200
1150
1100
1050
1000
950

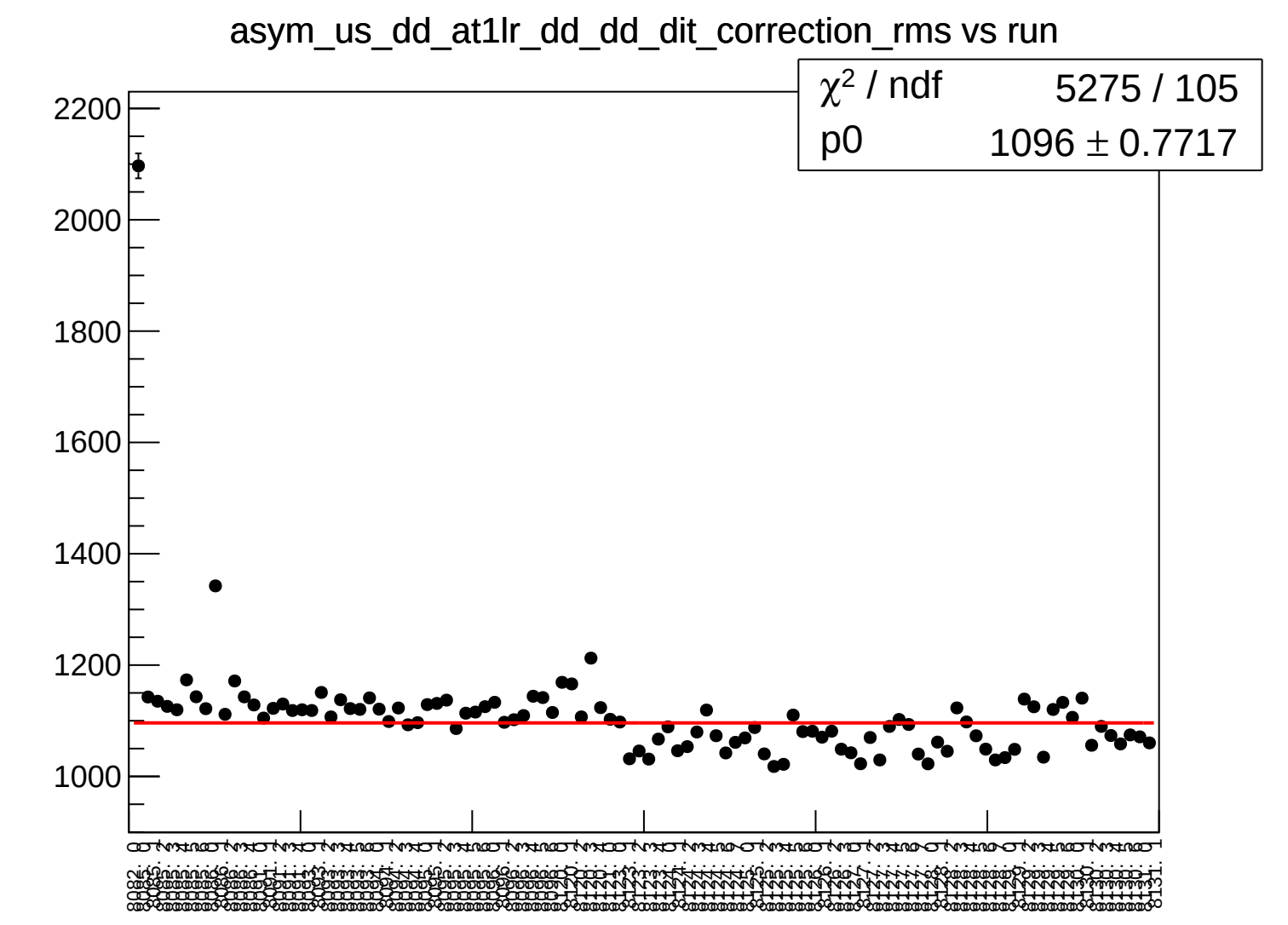

dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 90.44 / 104
p0 −1041 ± 1722
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean −3015
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

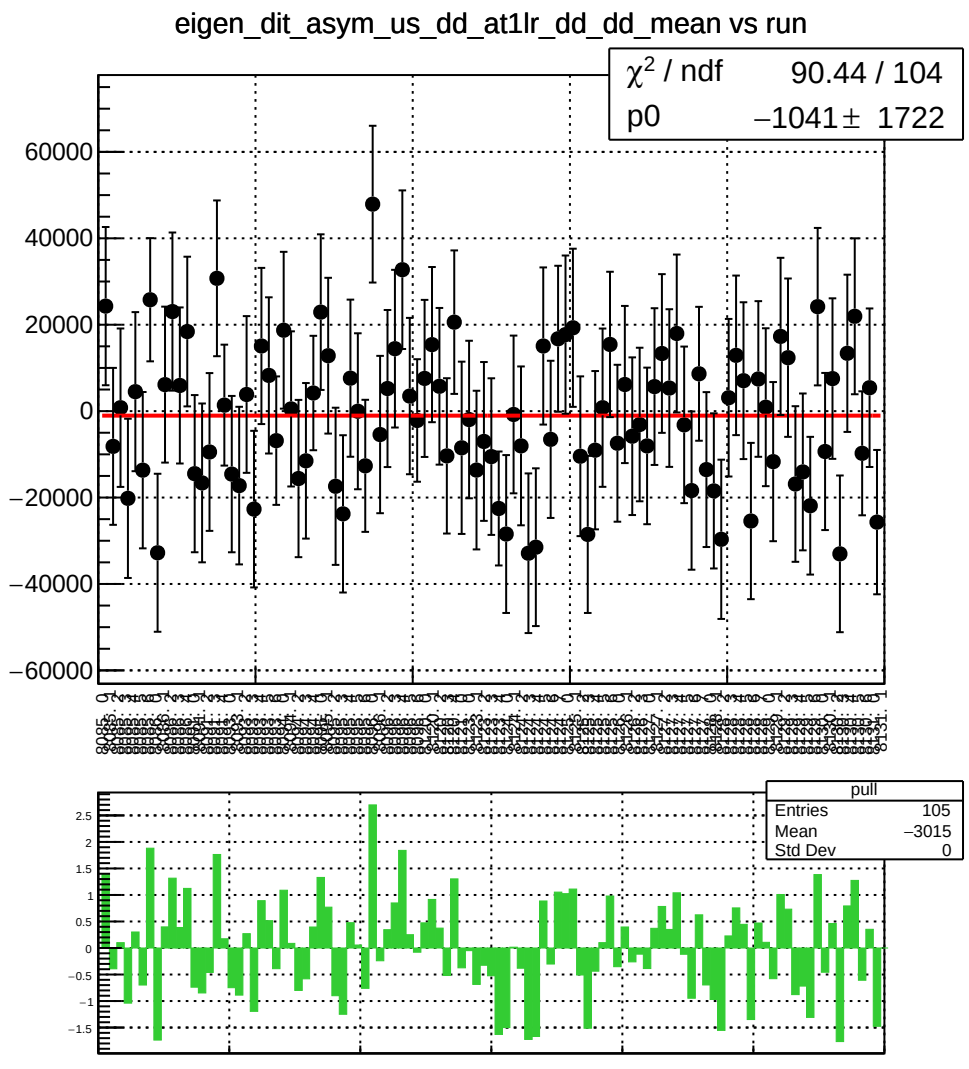

pull1D
Entries 105
Mean 0.0009387
Std Dev 0.9281
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

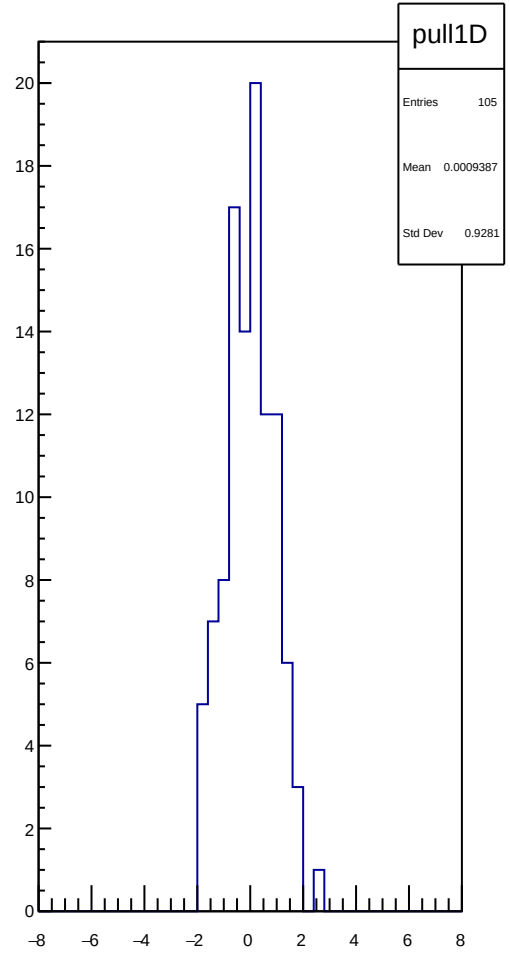

dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 105.4 / 104
p0 1729 ± 1.218
1780
1760
1740
1720
1700
1680

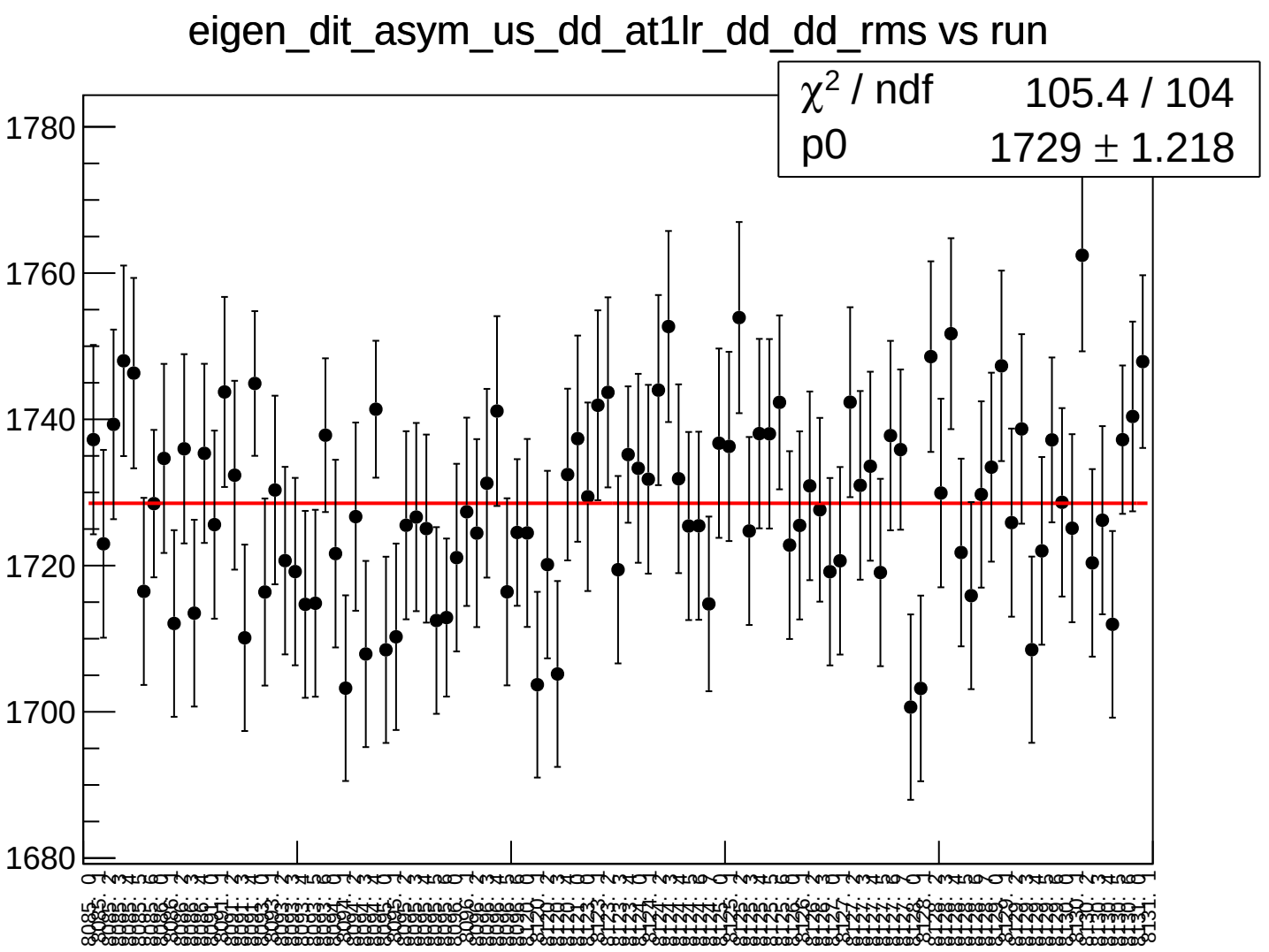

asym_us_dd_at1lr_dd_dd_dit_correction_mean vs run
χ² / ndf 76.72 / 105
p0 −779.2 ± 1091
pull
Entries 106
Mean 227.1
Std Dev 0

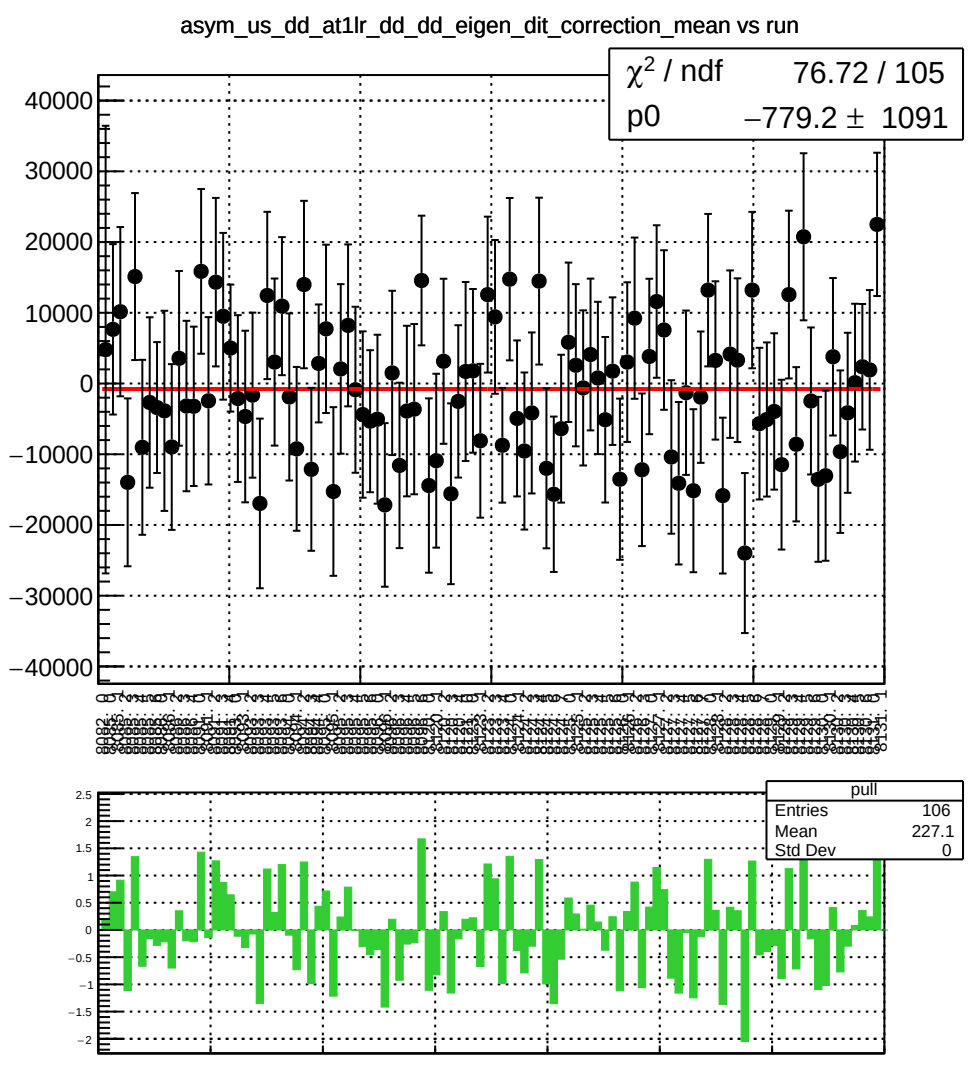

pull1D
Entries 106
Mean −0.007889
Std Dev 0.8507

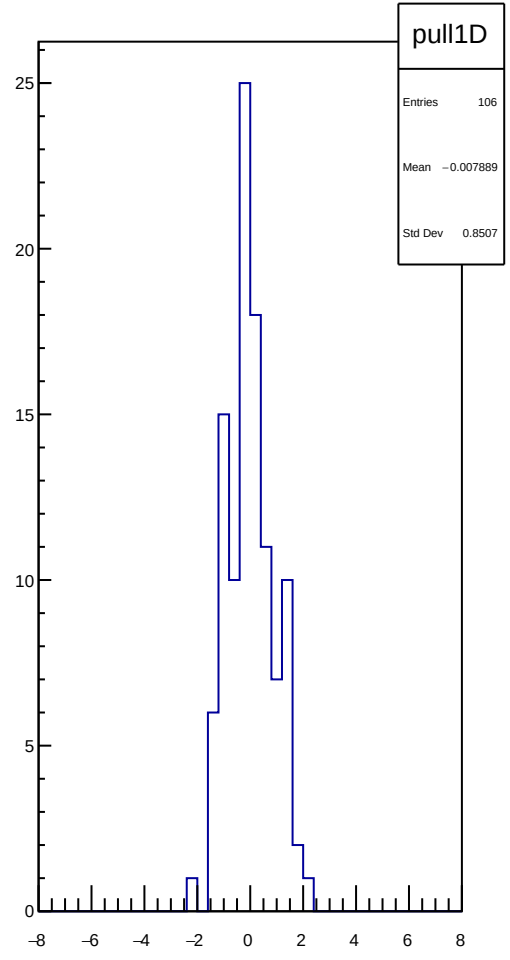

asym_us_dd_at1lr_dd_dd_dit_correction_rms vs run
χ² / ndf 5275 / 105
p0 1096 ± 0.7717
2200
2000
1800
1600
1400
1200
1000

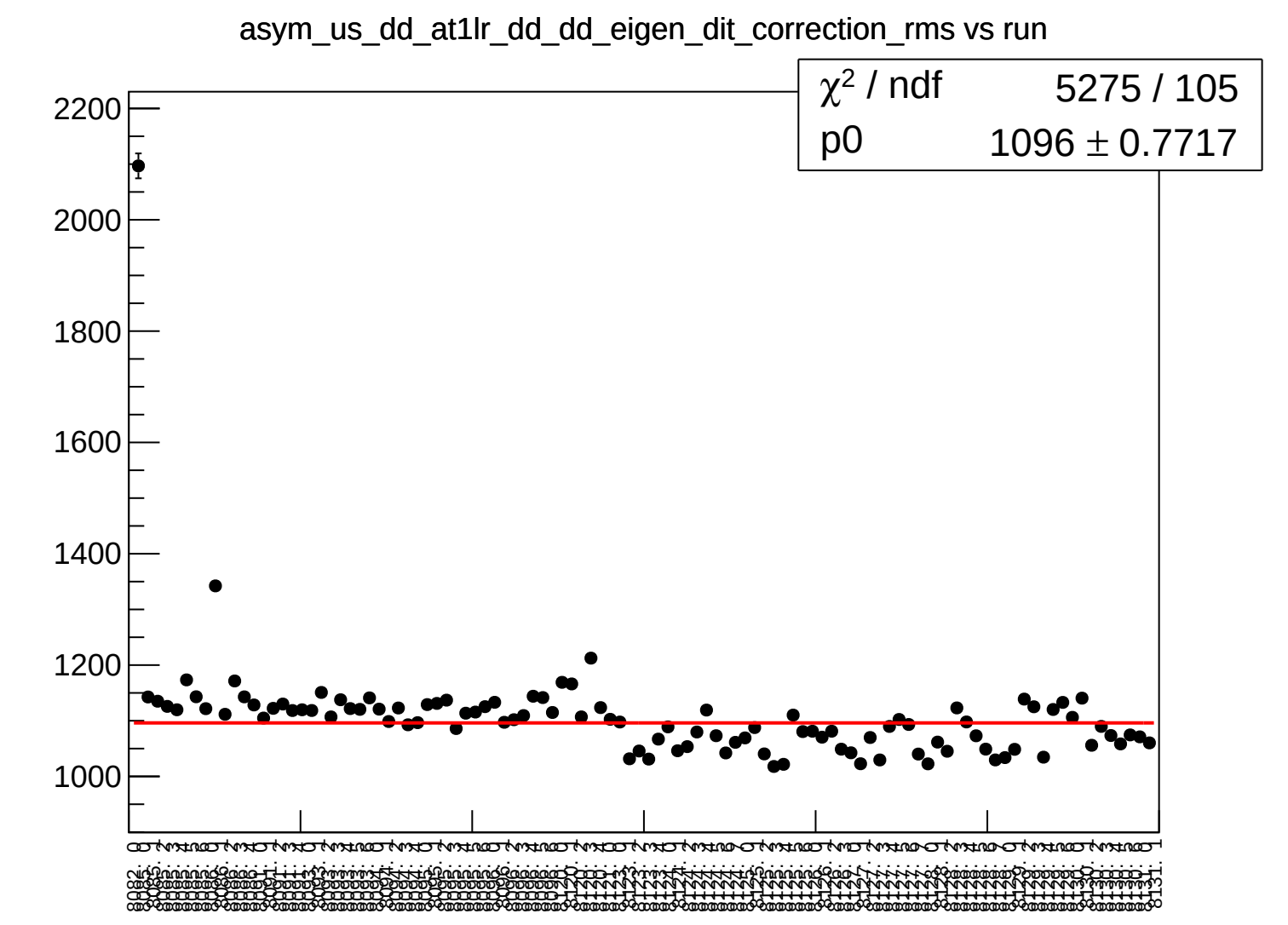

eigen_dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 90.44 / 104
p0 −1041 ± 1722
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean −3015
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

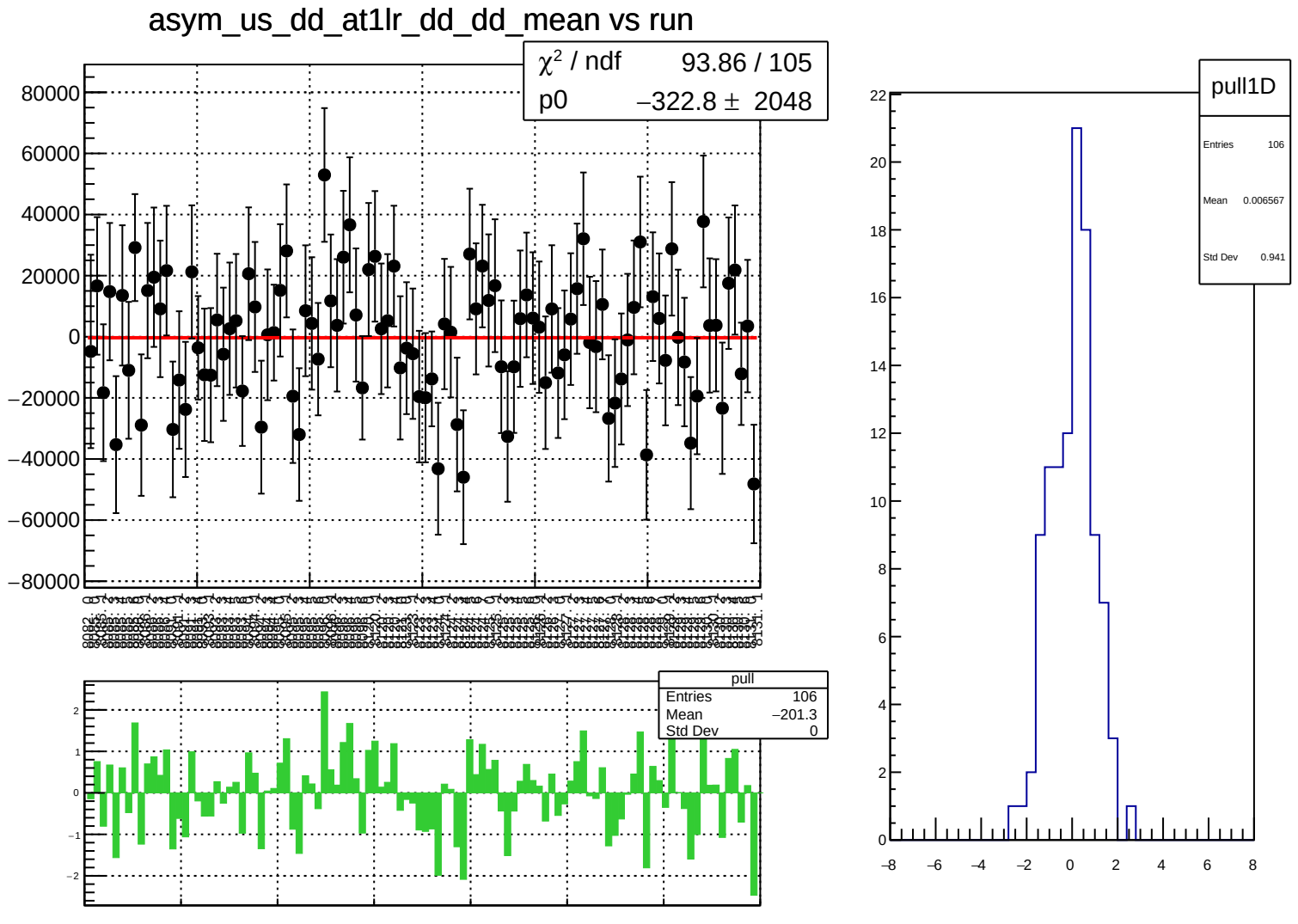

pull1D
Entries 105
Mean 0.0009387
Std Dev 0.9281
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

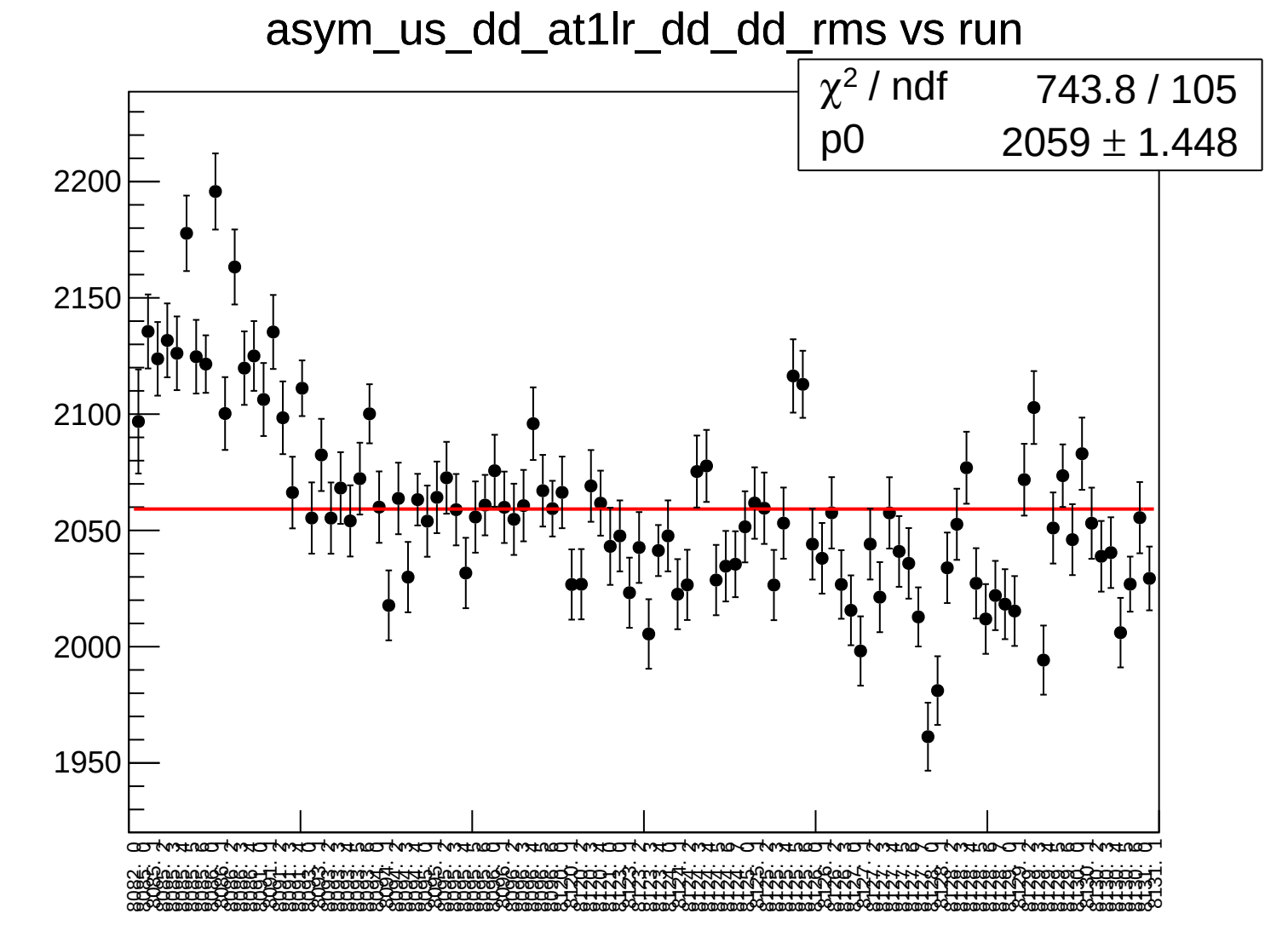

eigen_dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 105.4 / 104
p0 1729 ± 1.218
1780
1760
1740
1720
1700
1680

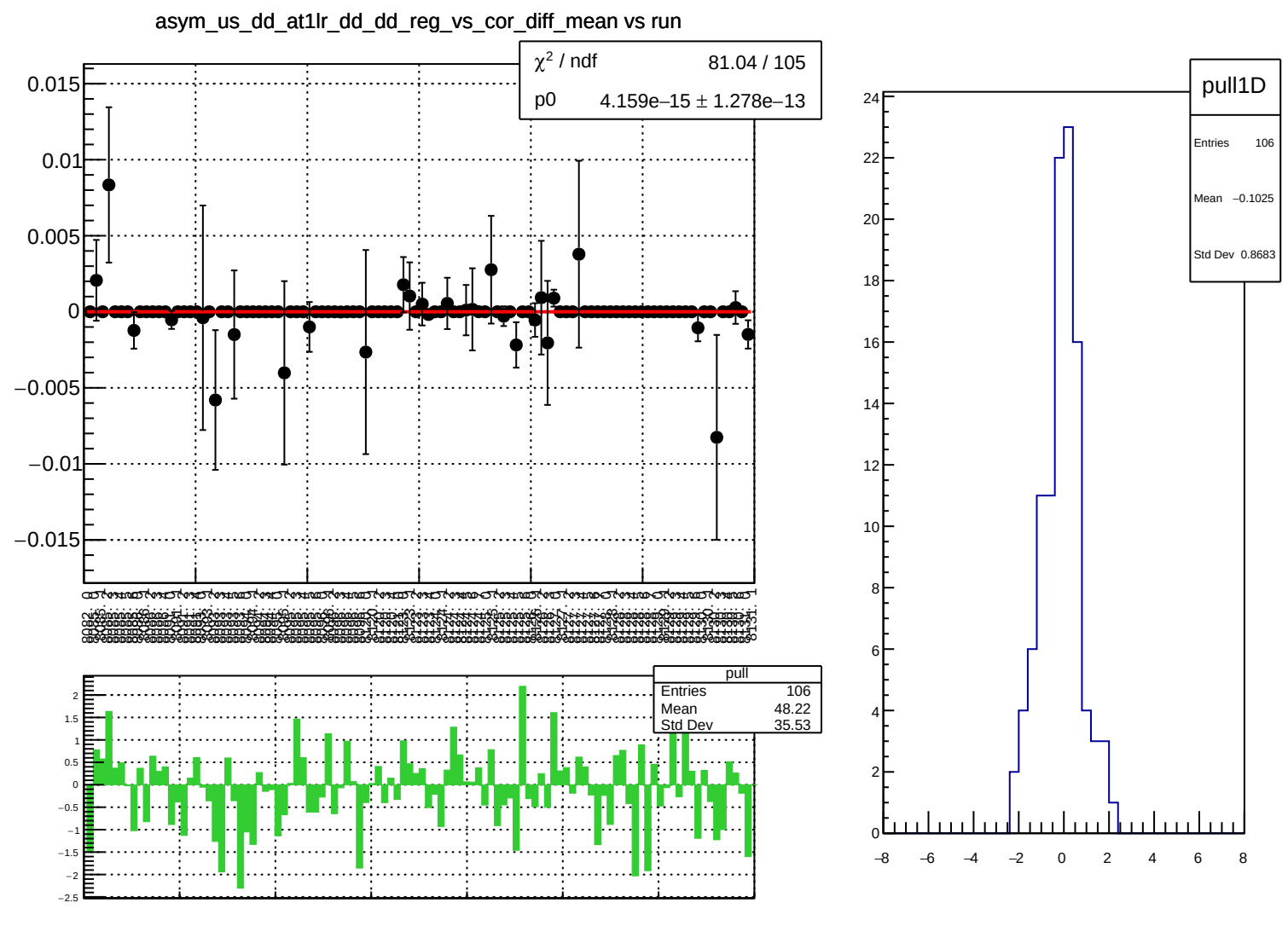

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 76.72 / 105
p0 −779.2 ± 1091
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 106
Mean 227.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

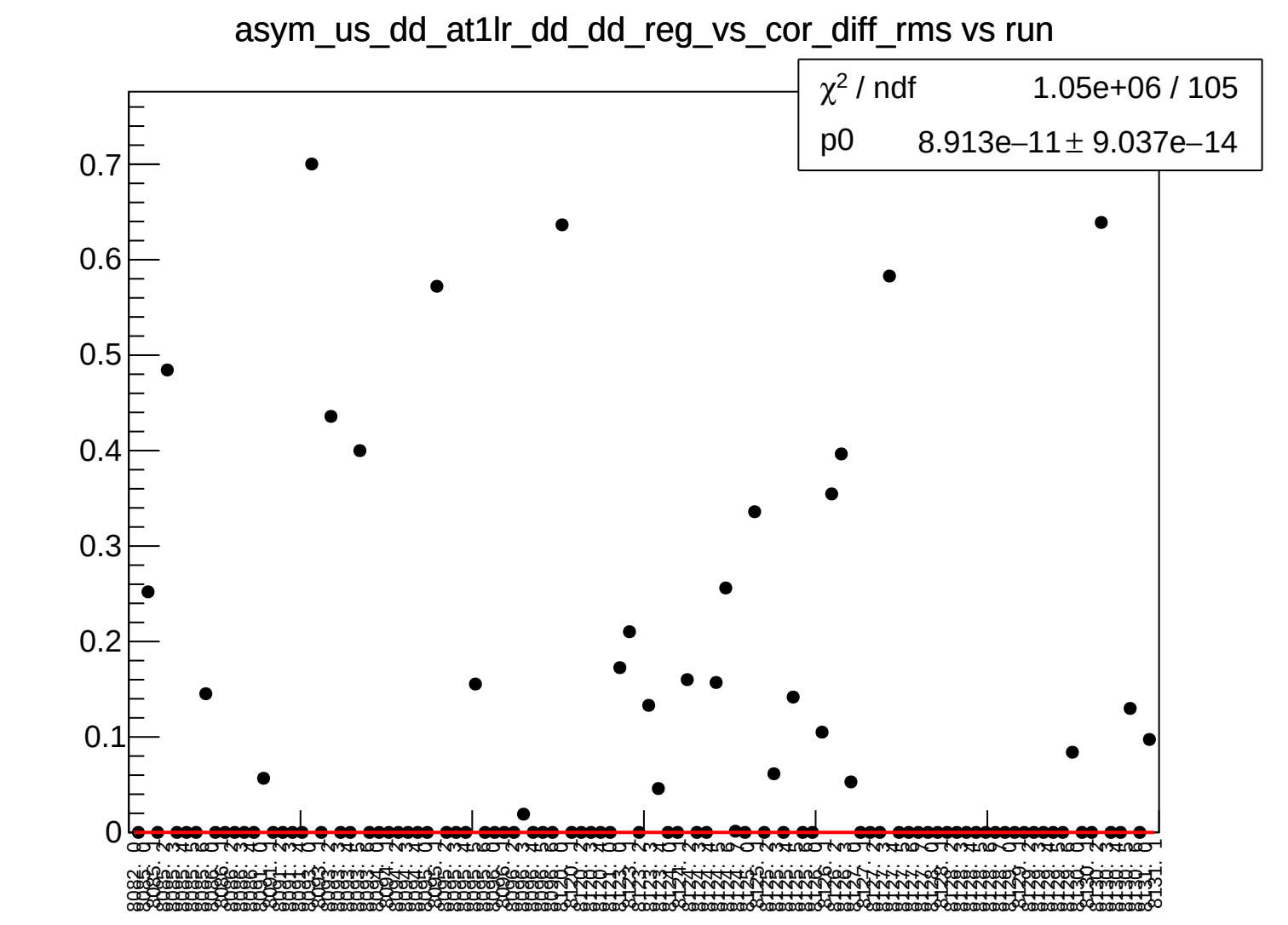

pull1D
Entries 106
Mean −0.007889
Std Dev 0.8507
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

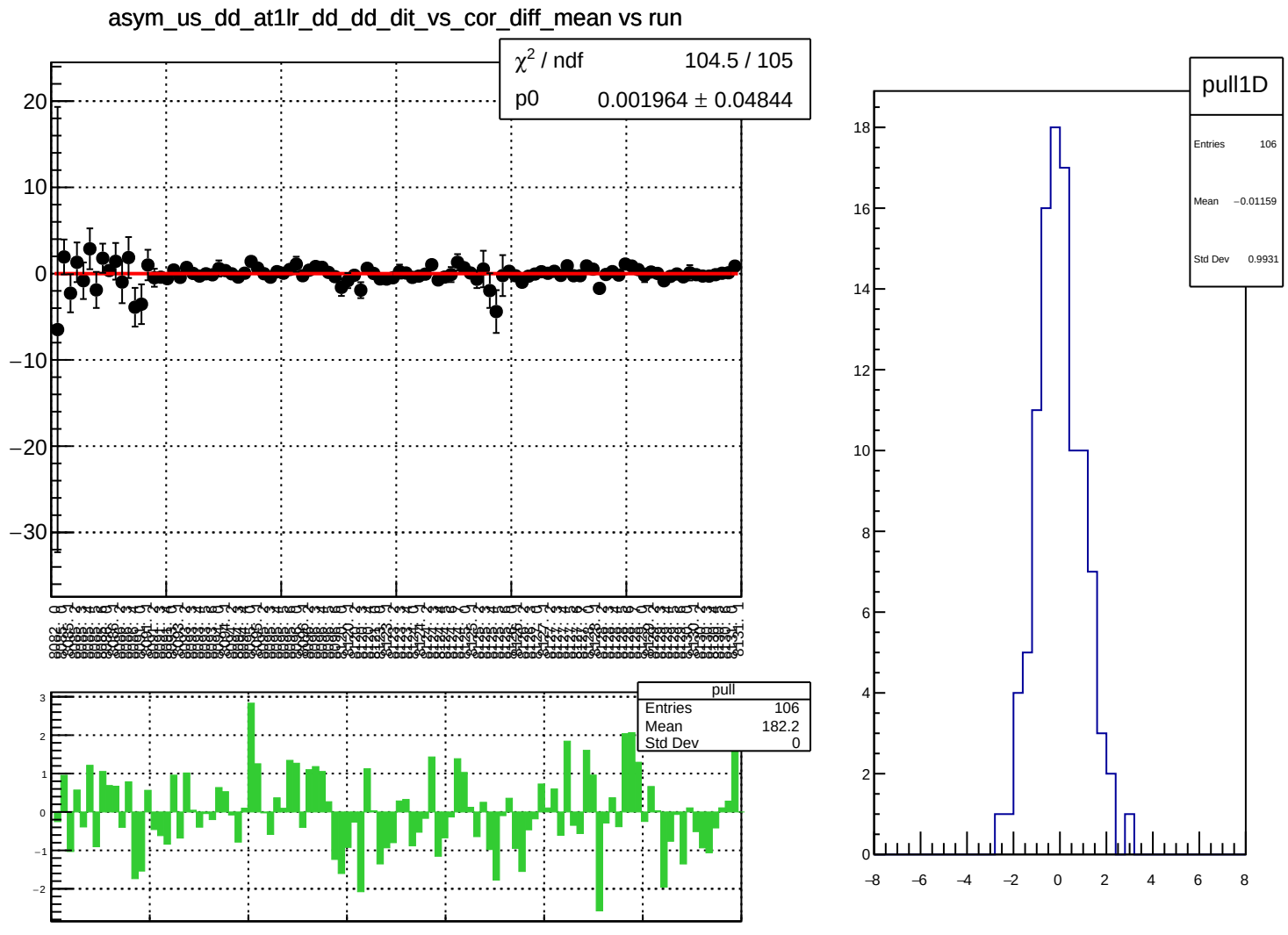

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 5275 / 105
p0 1096 ± 0.7717
2200
2000
1800
1600
1400
1200
1000

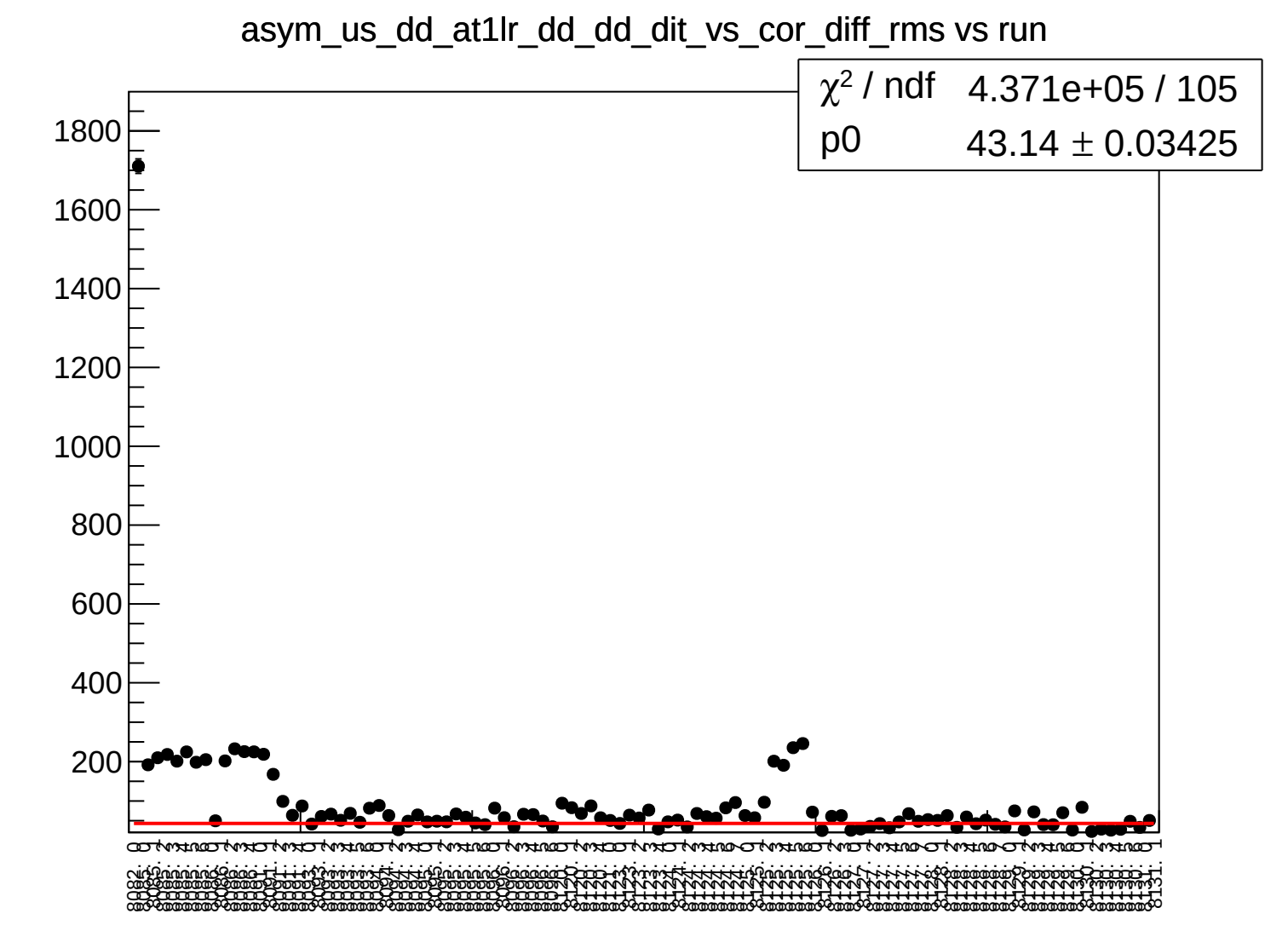

asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 93.86 / 105
p0 −322.8 ± 2048
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 106
Mean −201.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 106
Mean 0.006567
Std Dev 0.941
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

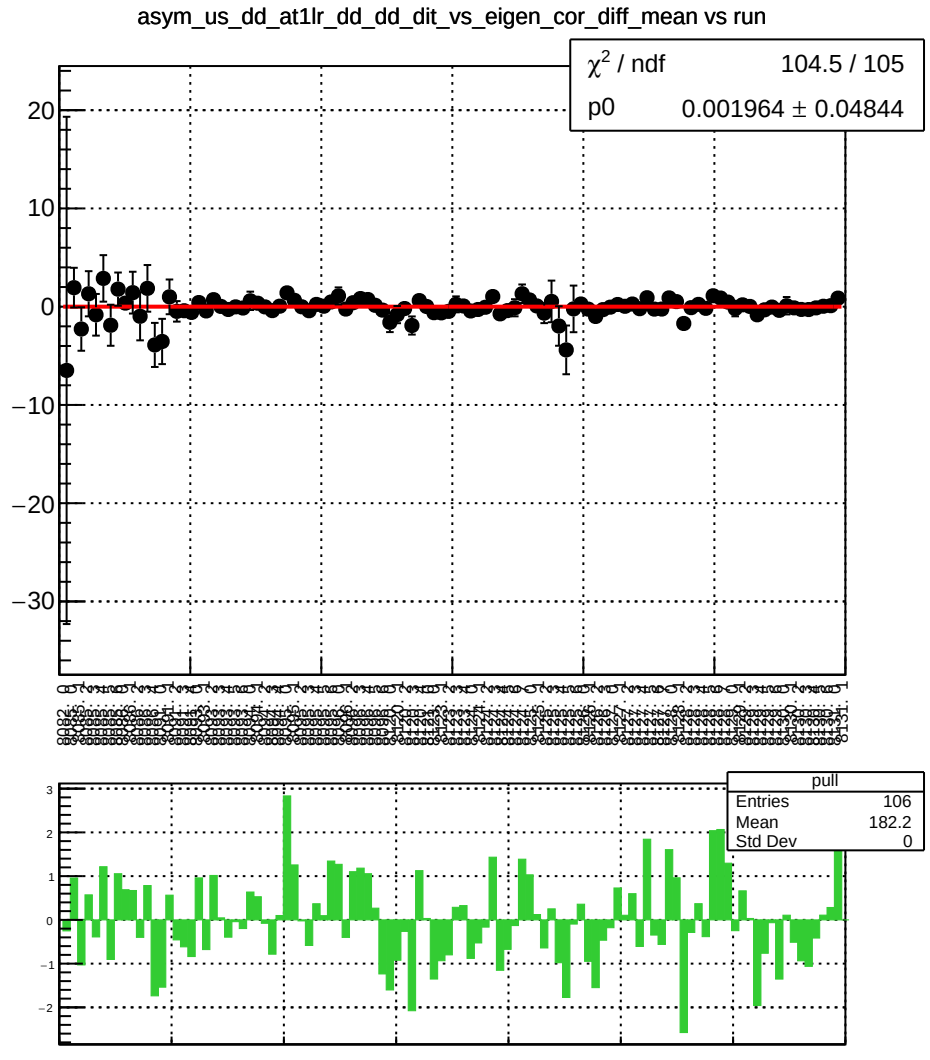

asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 743.8 / 105
p0 2059 ± 1.448
2200
2150
2100
2050
2000
1950

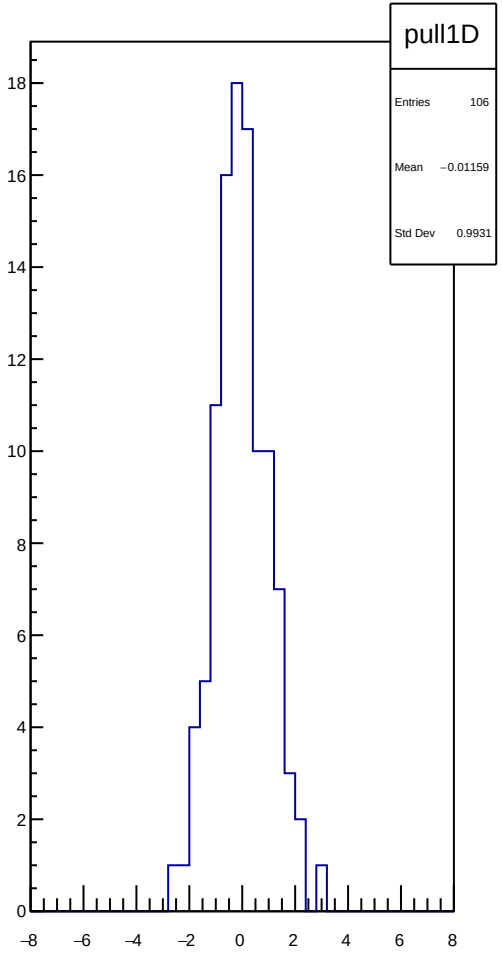

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 81.04 / 105
p0 4.159e−15 ± 1.278e−13
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 106
Mean 48.22
Std Dev 35.53
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 106
Mean −0.1025
Std Dev 0.8683
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

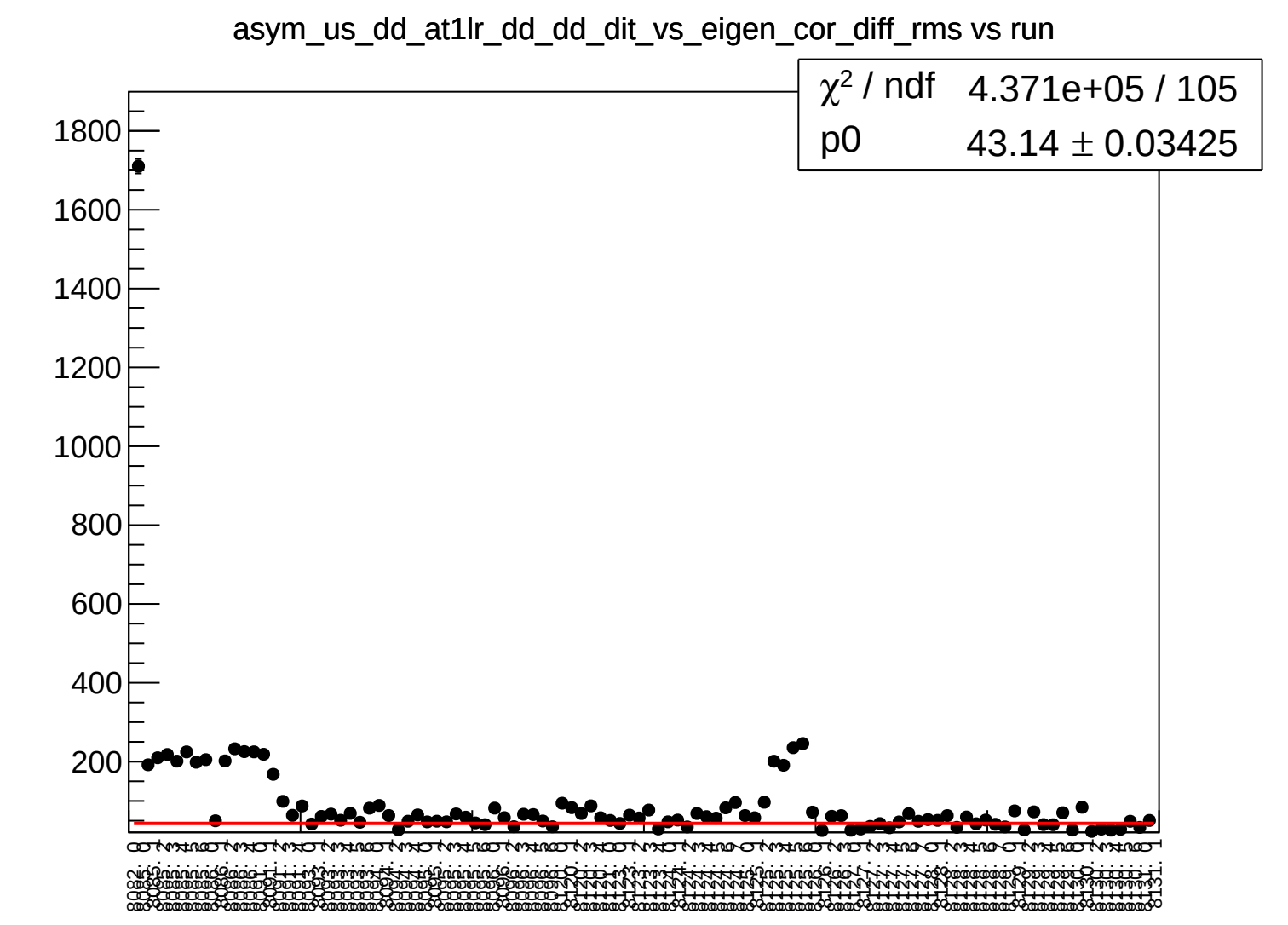

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.05e+06 / 105
p0 8.913e−11 ± 9.037e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

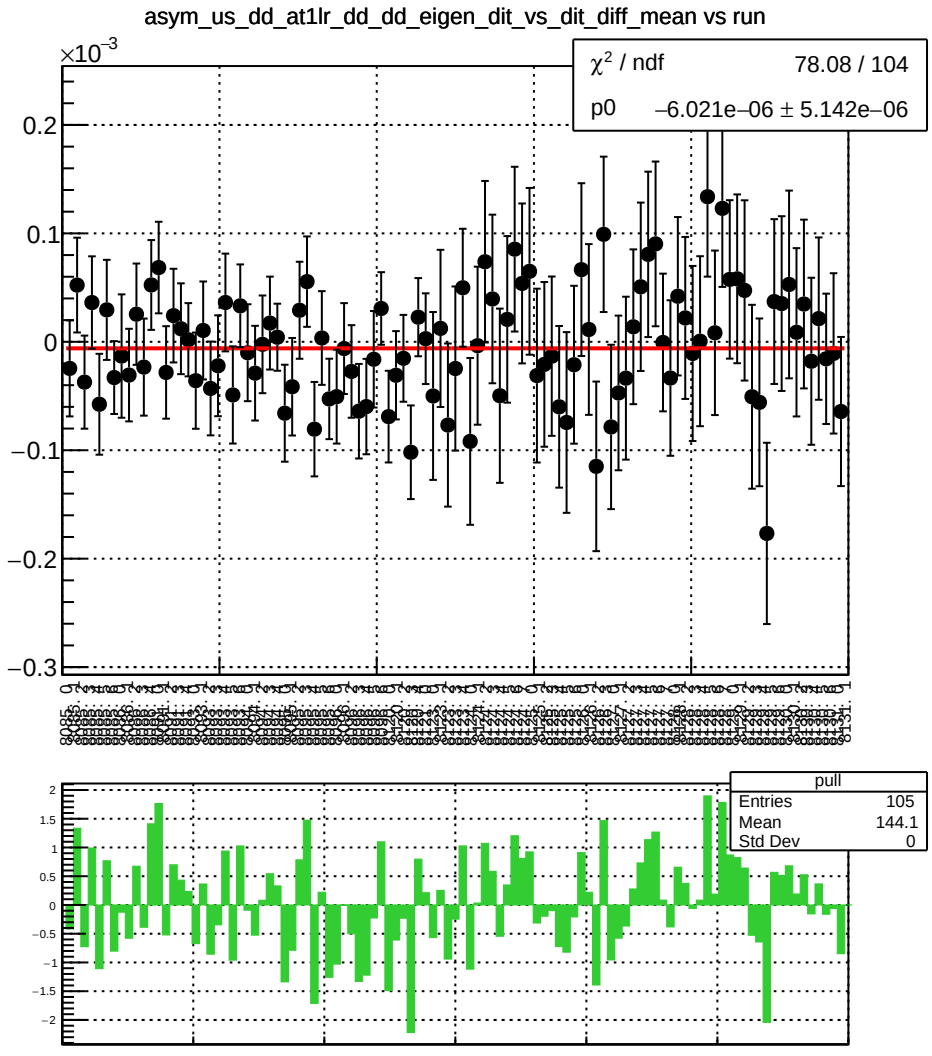

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 104.5 / 105
p0 0.001964 ± 0.04844
pull
Entries 106
Mean 182.2
Std Dev 0
pull1D
Entries 106
Mean −0.01159
Std Dev 0.9931

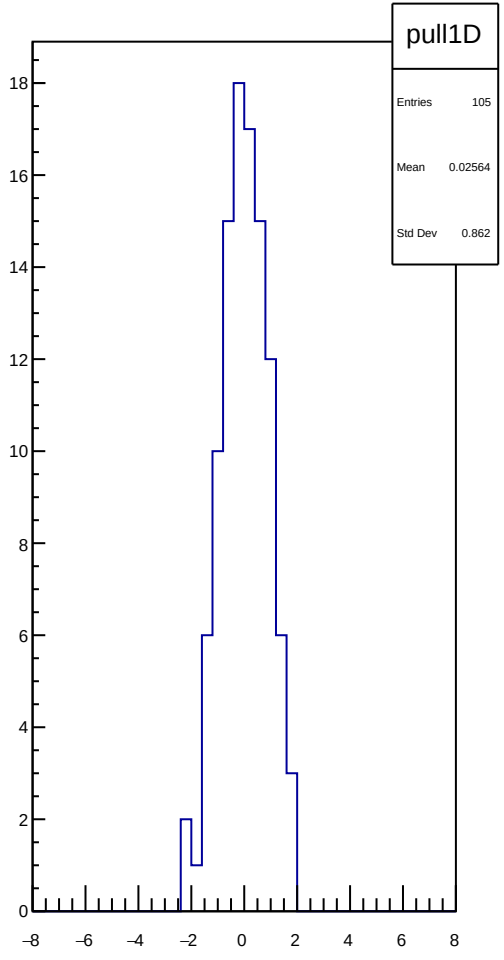

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.371e+05 / 105
p0 43.14 ± 0.03425
1800
1600
1400
1200
1000
800
600
400
200

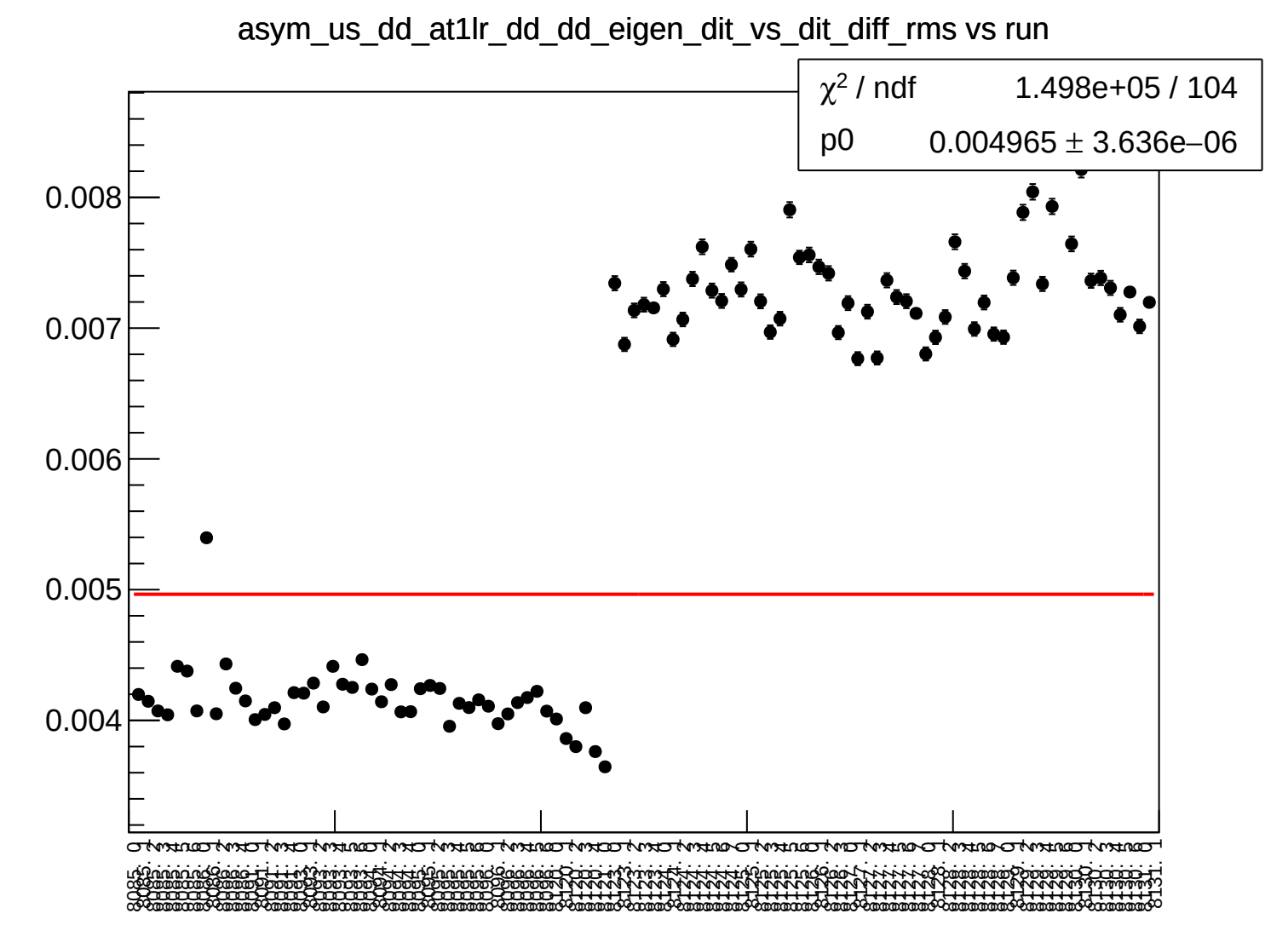

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.5 / 105
p0 0.001964 ± 0.04844
pull
Entries 106
Mean 182.2
Std Dev 0

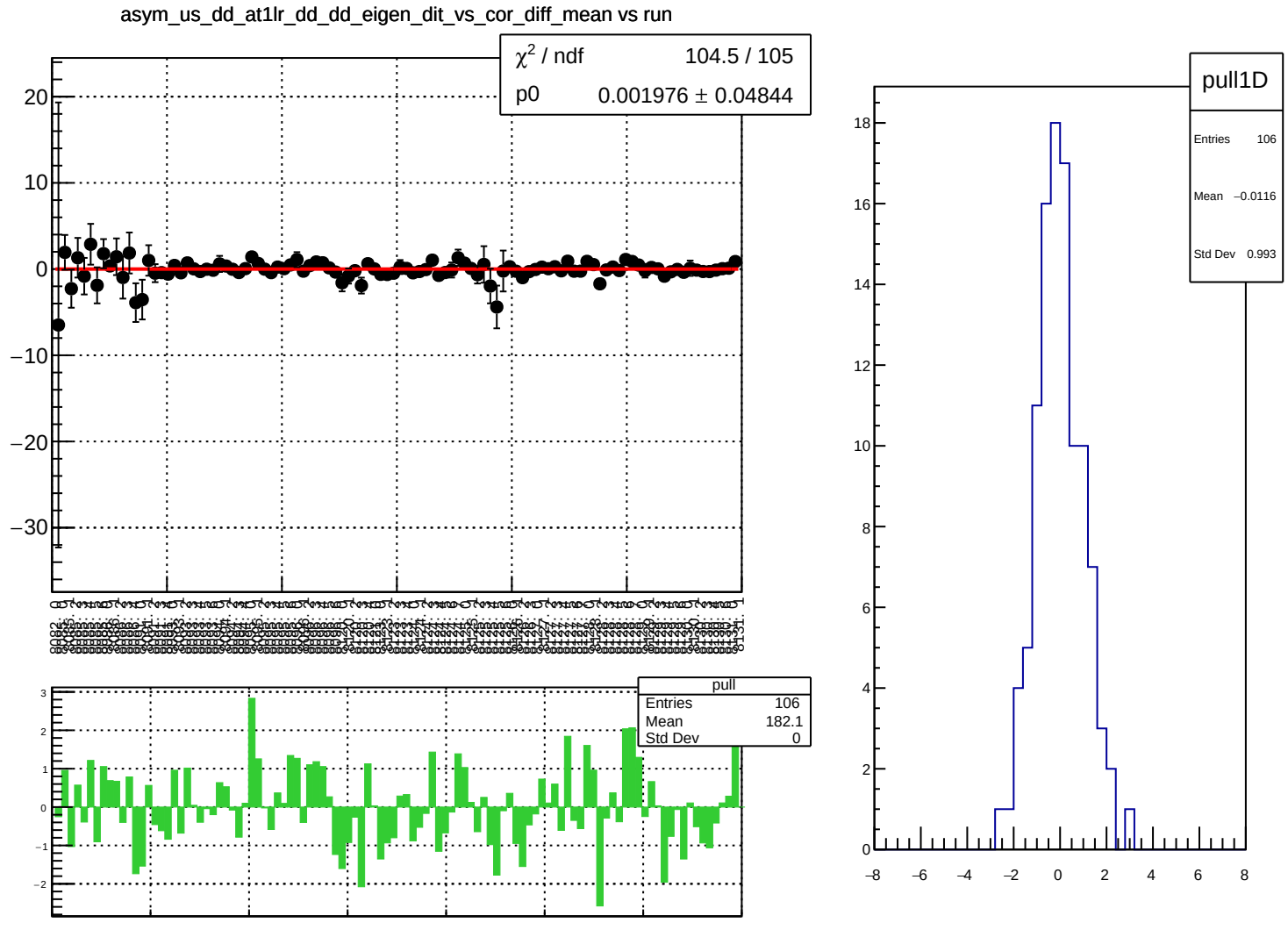

pull1D
Entries 106
Mean −0.01159
Std Dev 0.9931

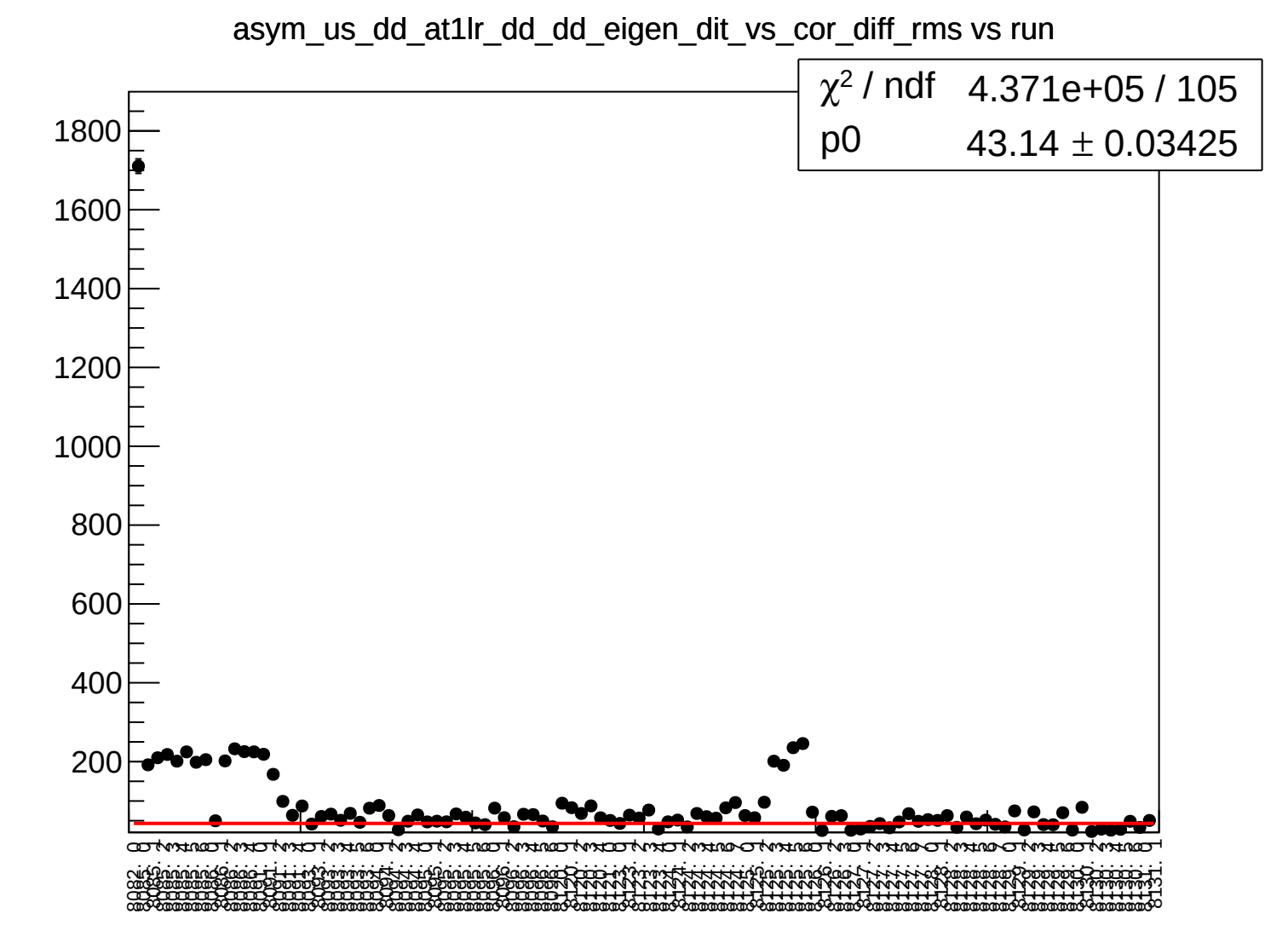

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.371e+05 / 105
p0 43.14 ± 0.03425
1800
1600
1400
1200
1000
800
600
400
200

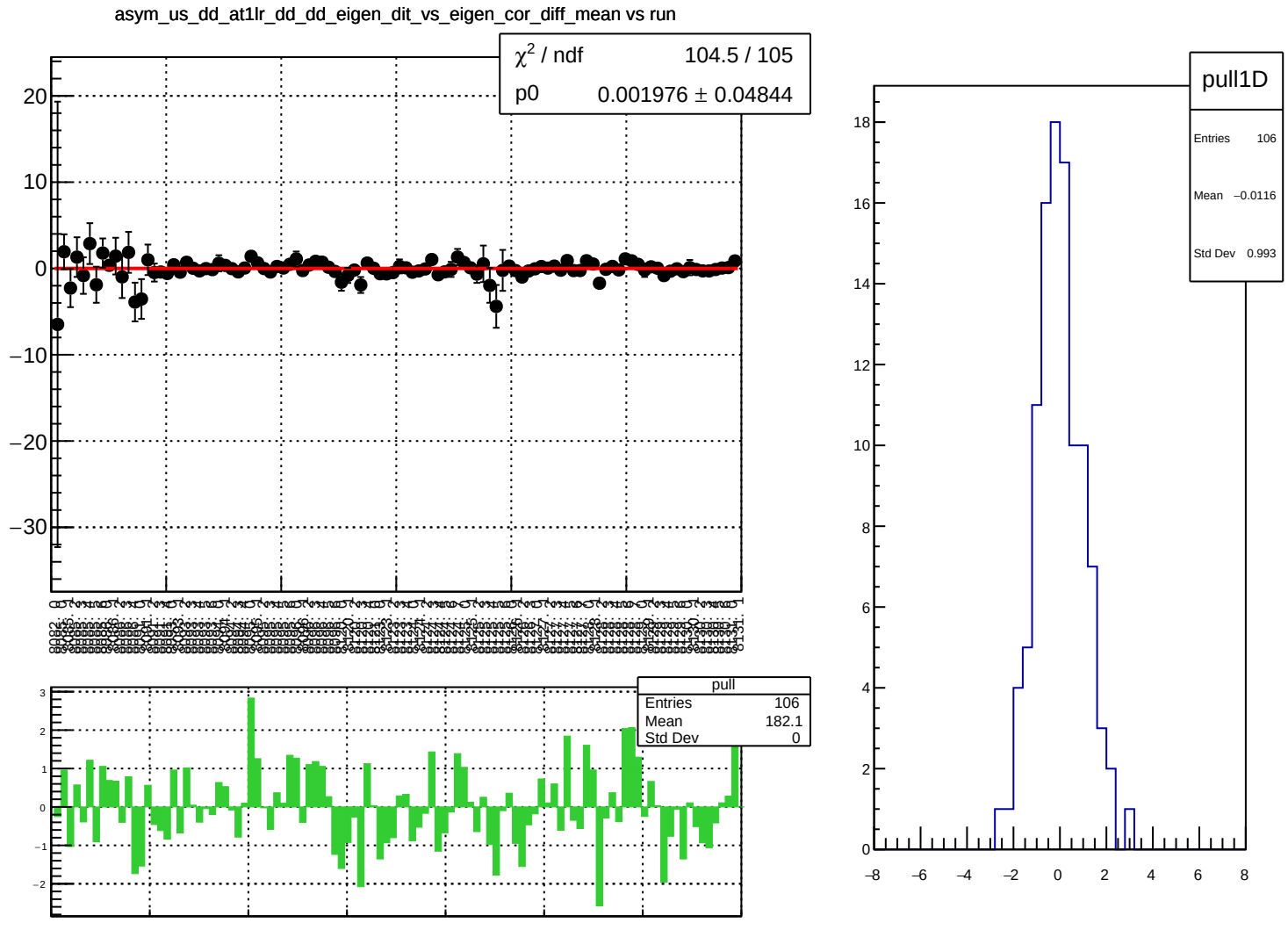

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 78.08 / 104
p0 −6.021e−06 ± 5.142e−06
pull
Entries 105
Mean 144.1
Std Dev 0

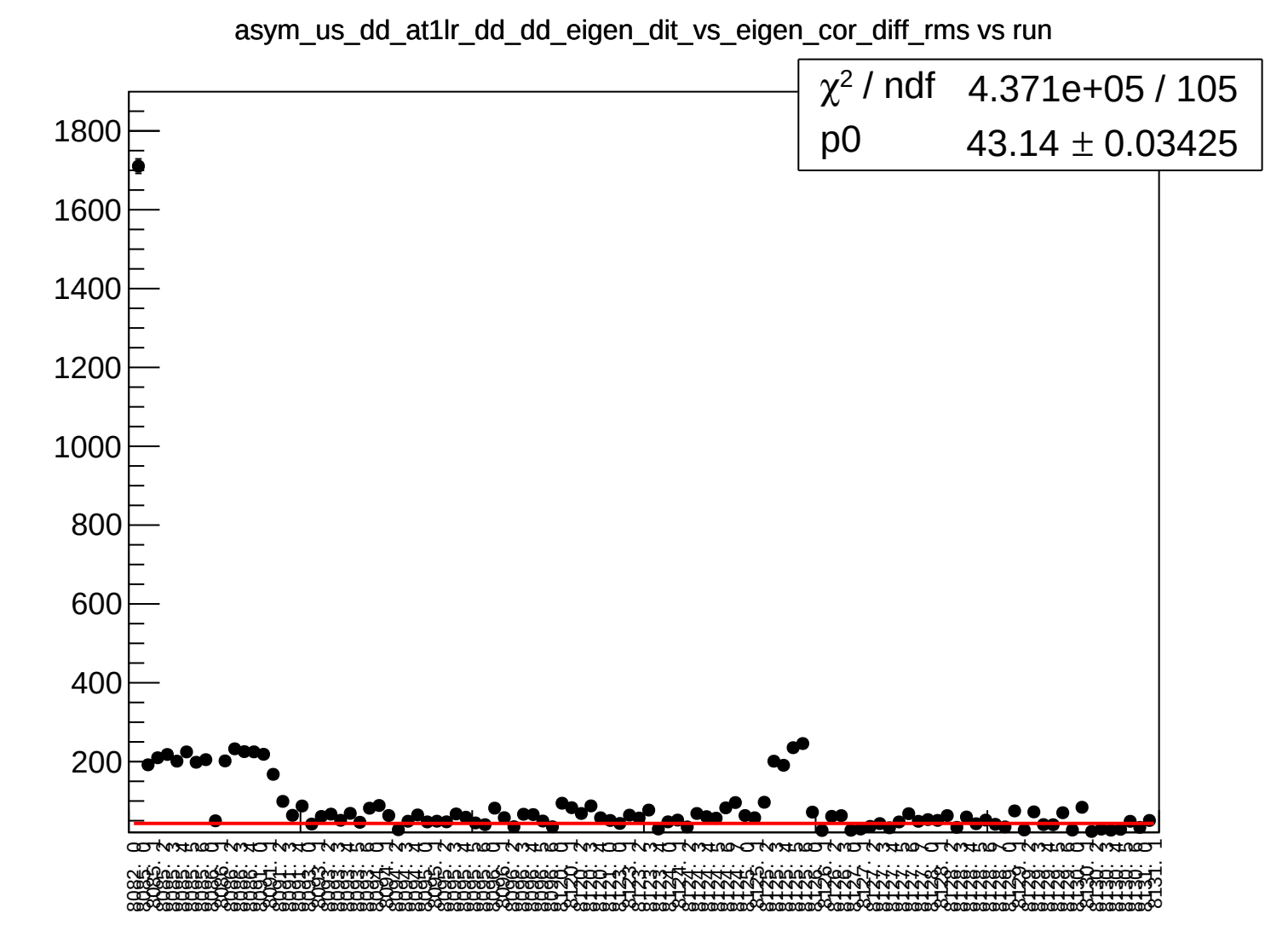

pull1D
Entries 105
Mean 0.02564
Std Dev 0.862

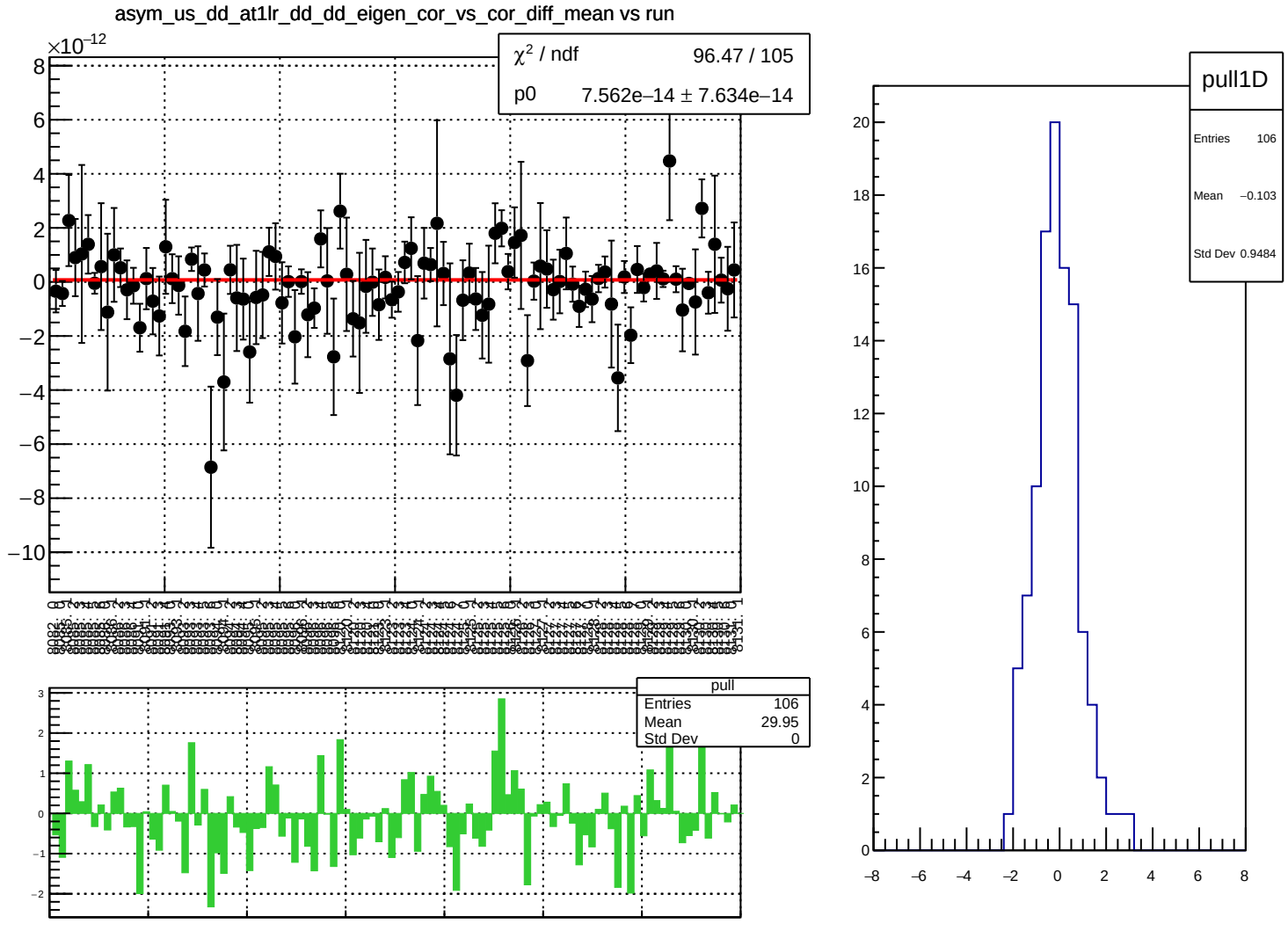

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.498e+05 / 104
p0 0.004965 ± 3.636e−06
0.008
0.007
0.006
0.005
0.004

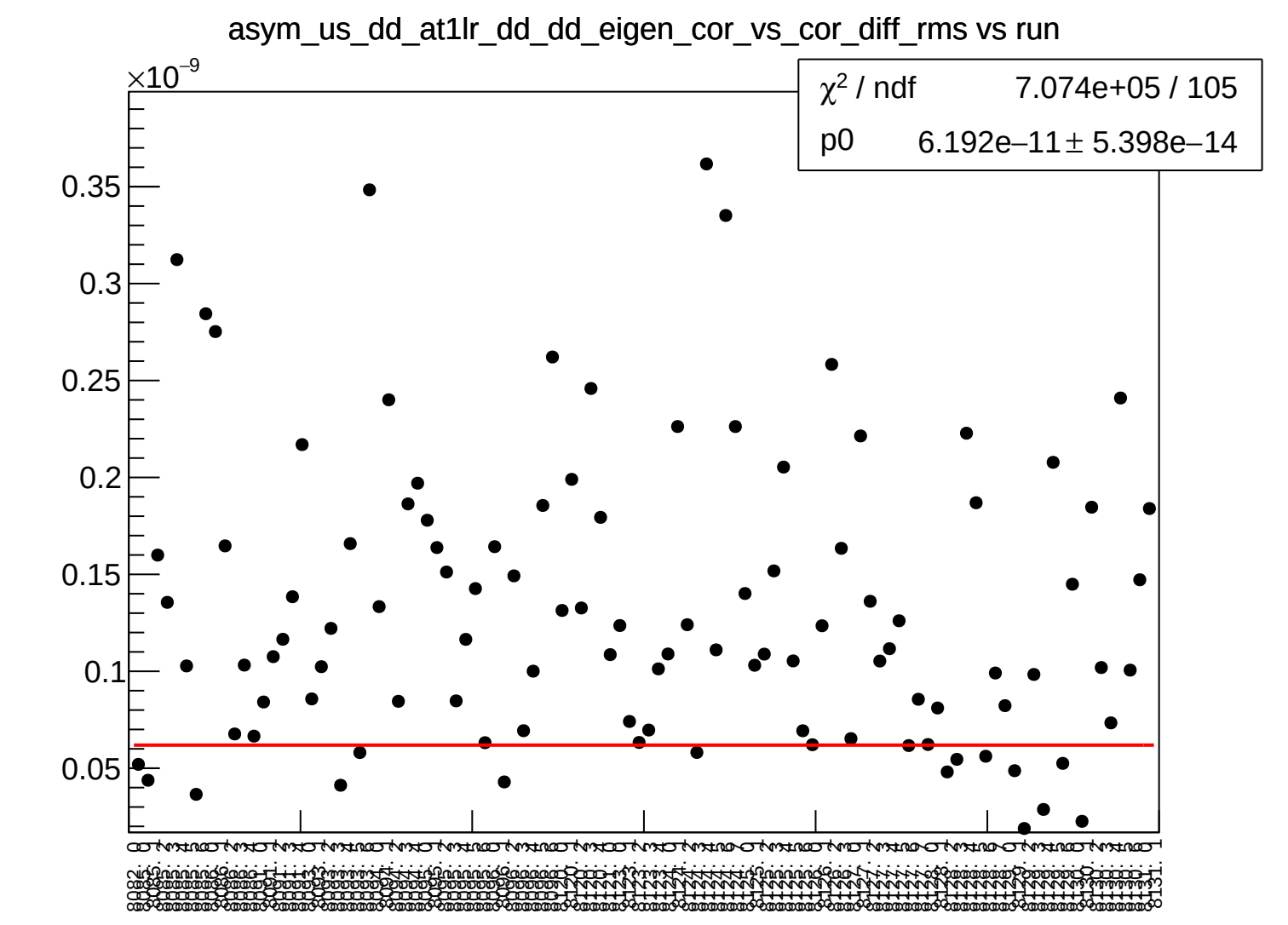

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 104.5 / 105
p0 0.001976 ± 0.04844
pull
Entries 106
Mean 182.1
Std Dev 0
pull1D
Entries 106
Mean −0.0116
Std Dev 0.993

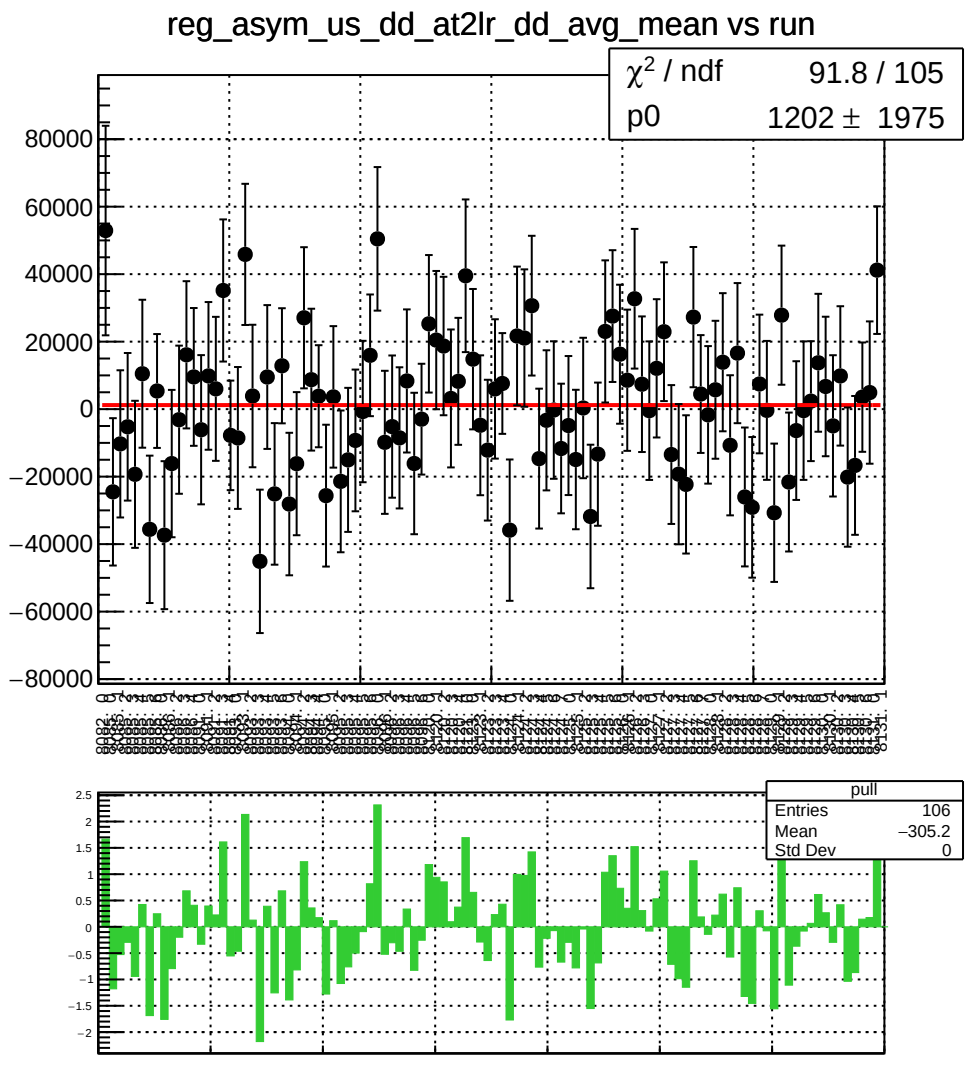

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.371e+05 / 105
p0 43.14 ± 0.03425
1800
1600
1400
1200
1000
800
600
400
200

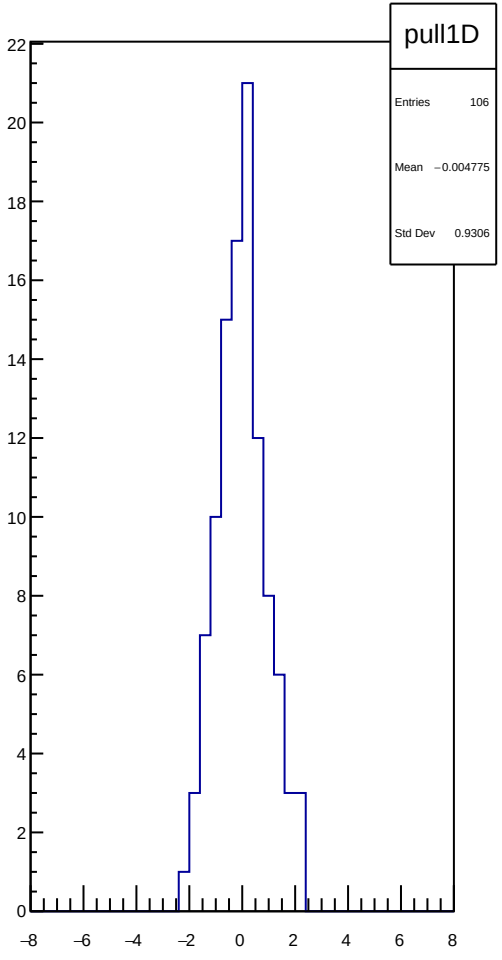

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.5 / 105
p0 0.001976 ± 0.04844
pull
Entries 106
Mean 182.1
Std Dev 0
pull1D
Entries 106
Mean −0.0116
Std Dev 0.993

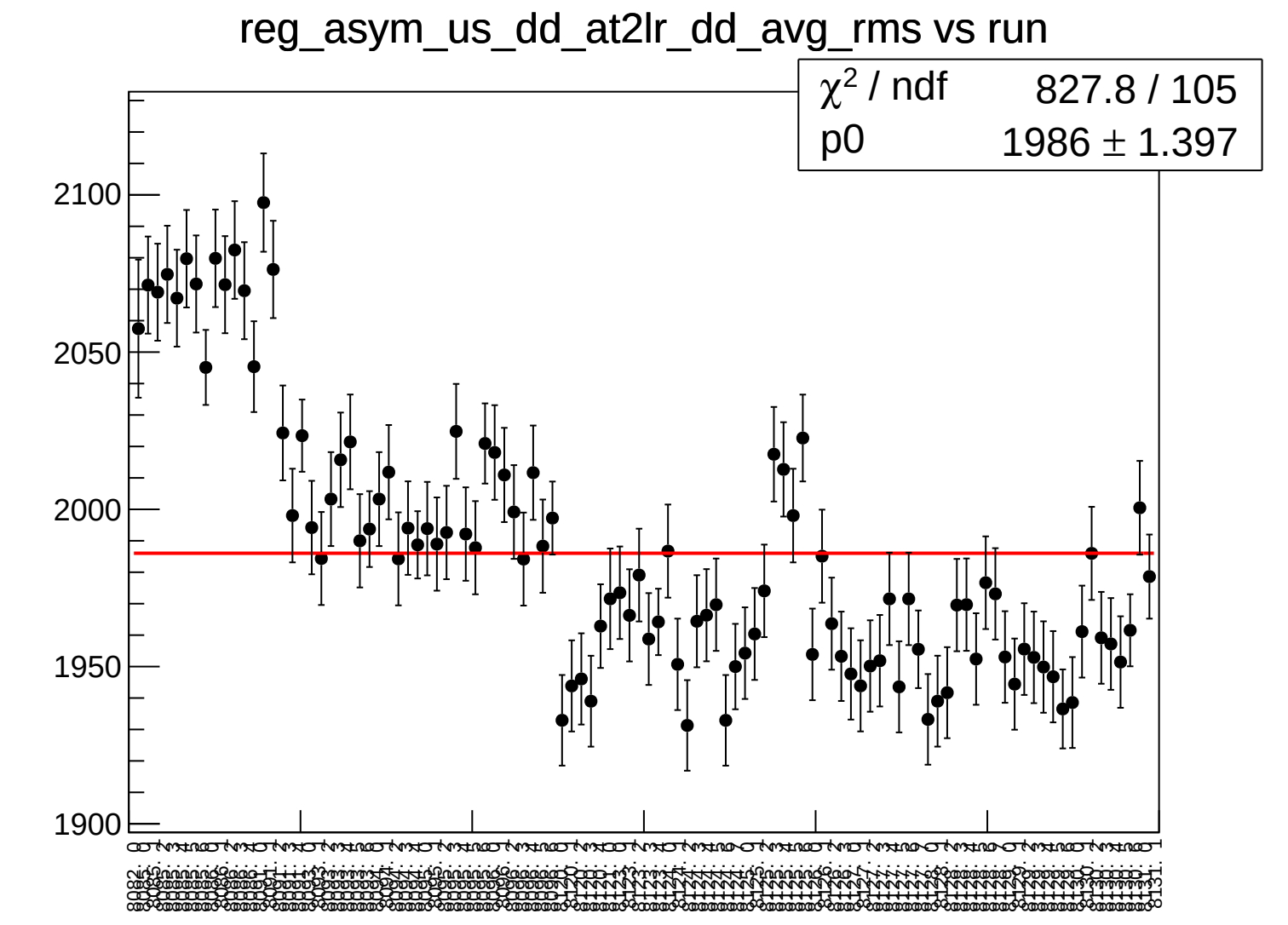

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.371e+05 / 105
p0 43.14 ± 0.03425
1800
1600
1400
1200
1000
800
600
400
200

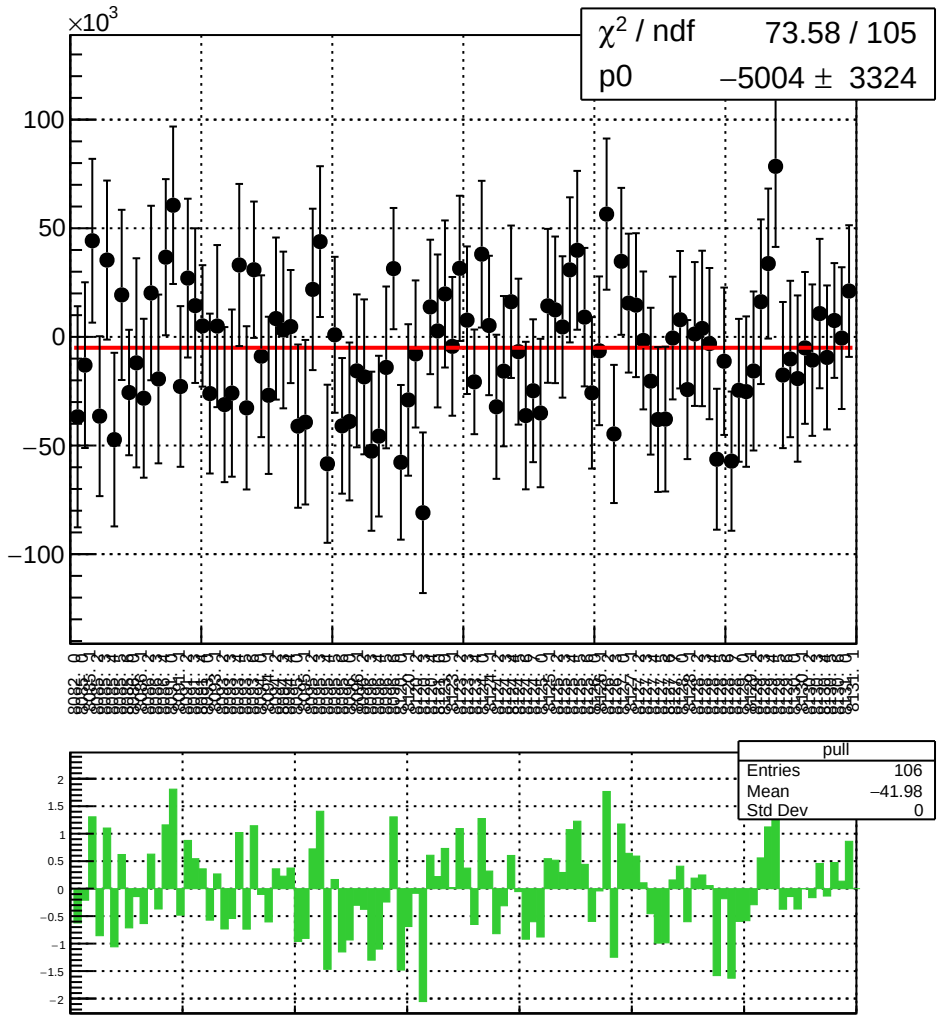

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 96.47 / 105
p0 7.562e−14 ± 7.634e−14
pull
Entries 106
Mean 29.95
Std Dev 0
pull1D
Entries 106
Mean −0.103
Std Dev 0.9484

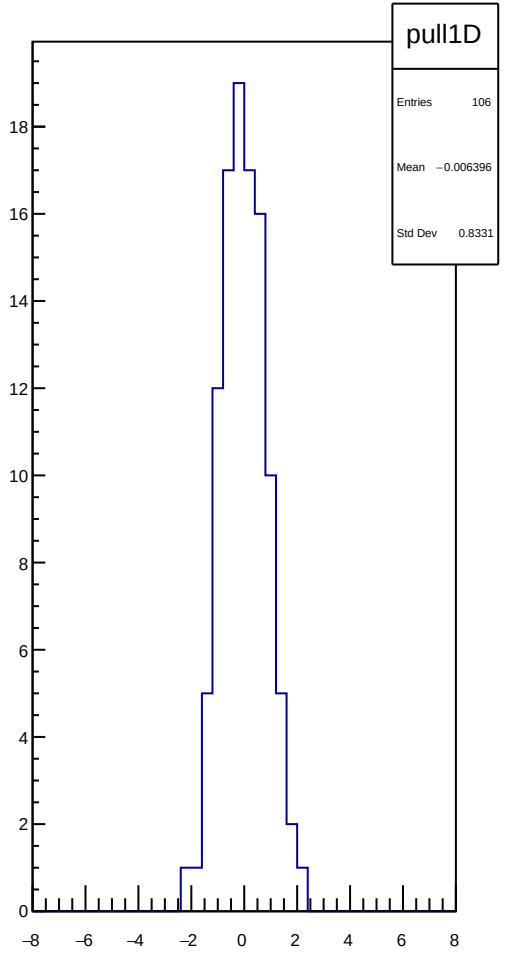

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.074e+05 / 105
p0 6.192e−11 ± 5.398e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

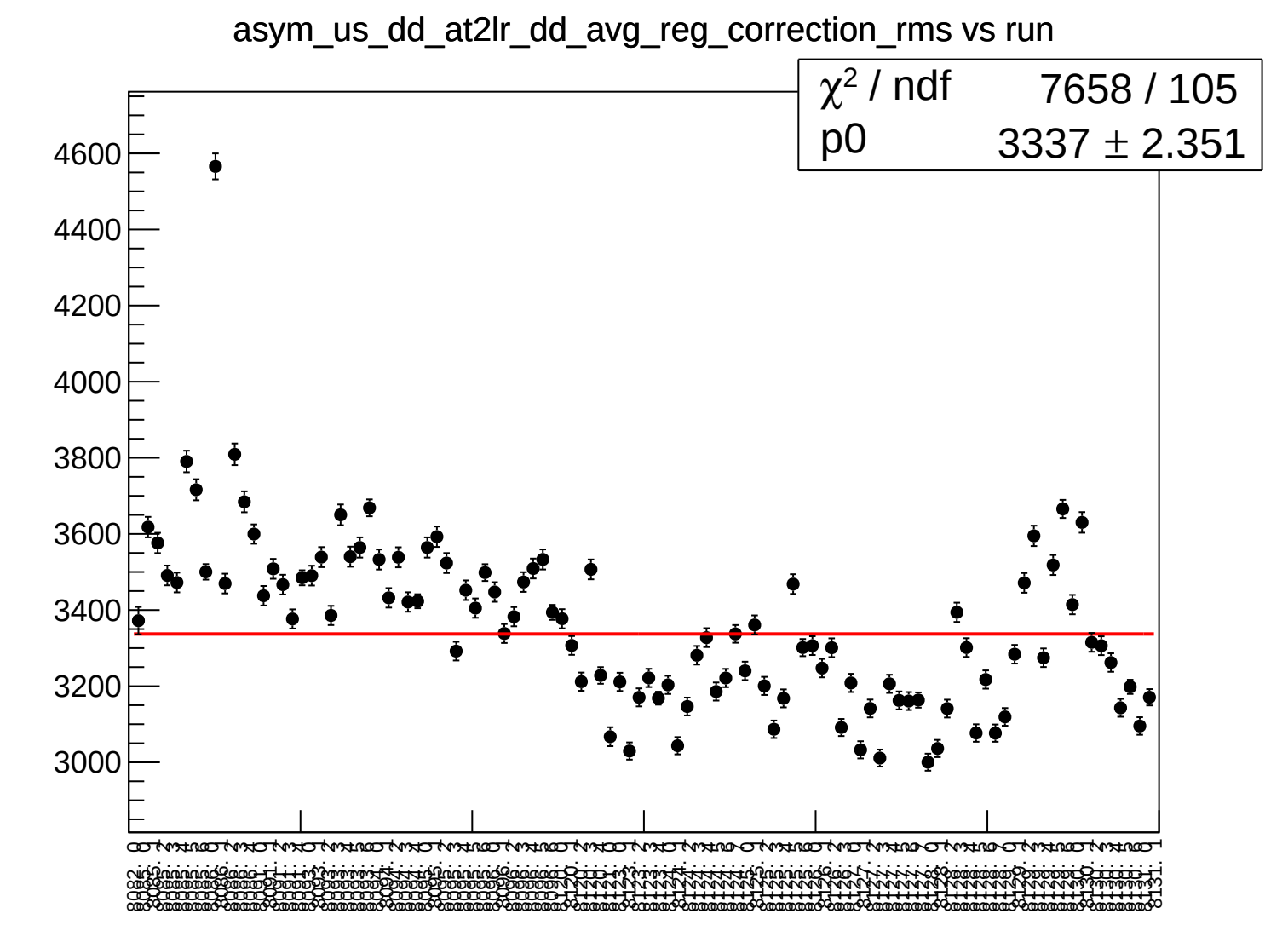

reg_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 91.8 / 105
p0 1202 ± 1975
pull
Entries 106
Mean −305.2
Std Dev 0

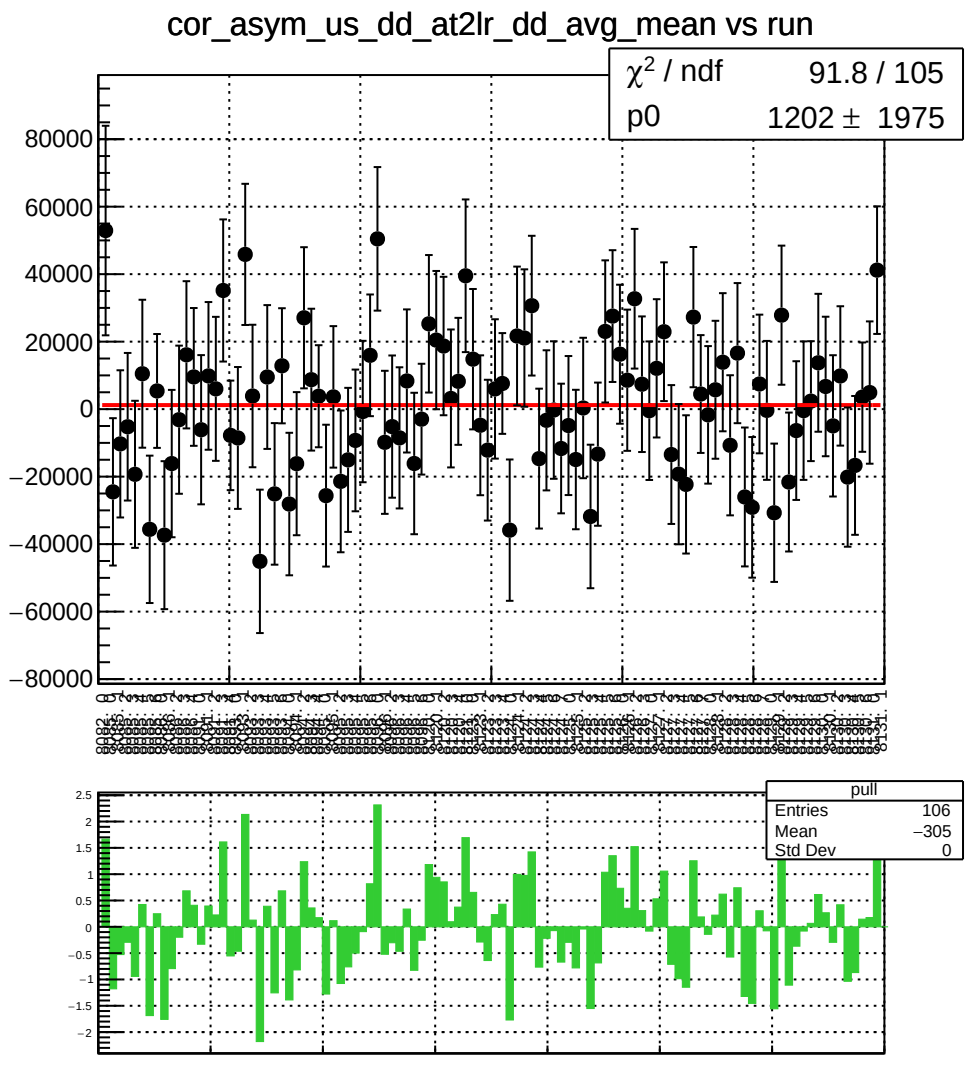

pull1D
Entries 106
Mean −0.004775
Std Dev 0.9306

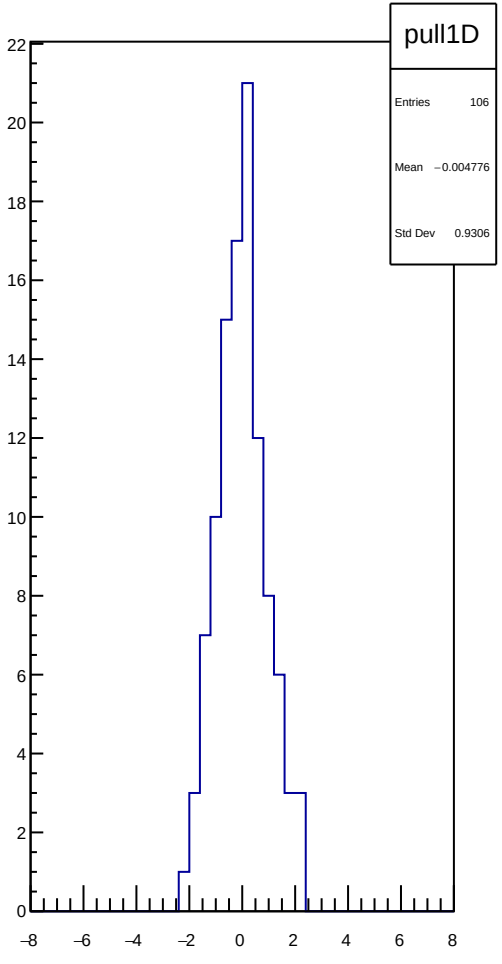

reg_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 827.8 / 105
p0 1986 ± 1.397
2100
2050
2000
1950
1900

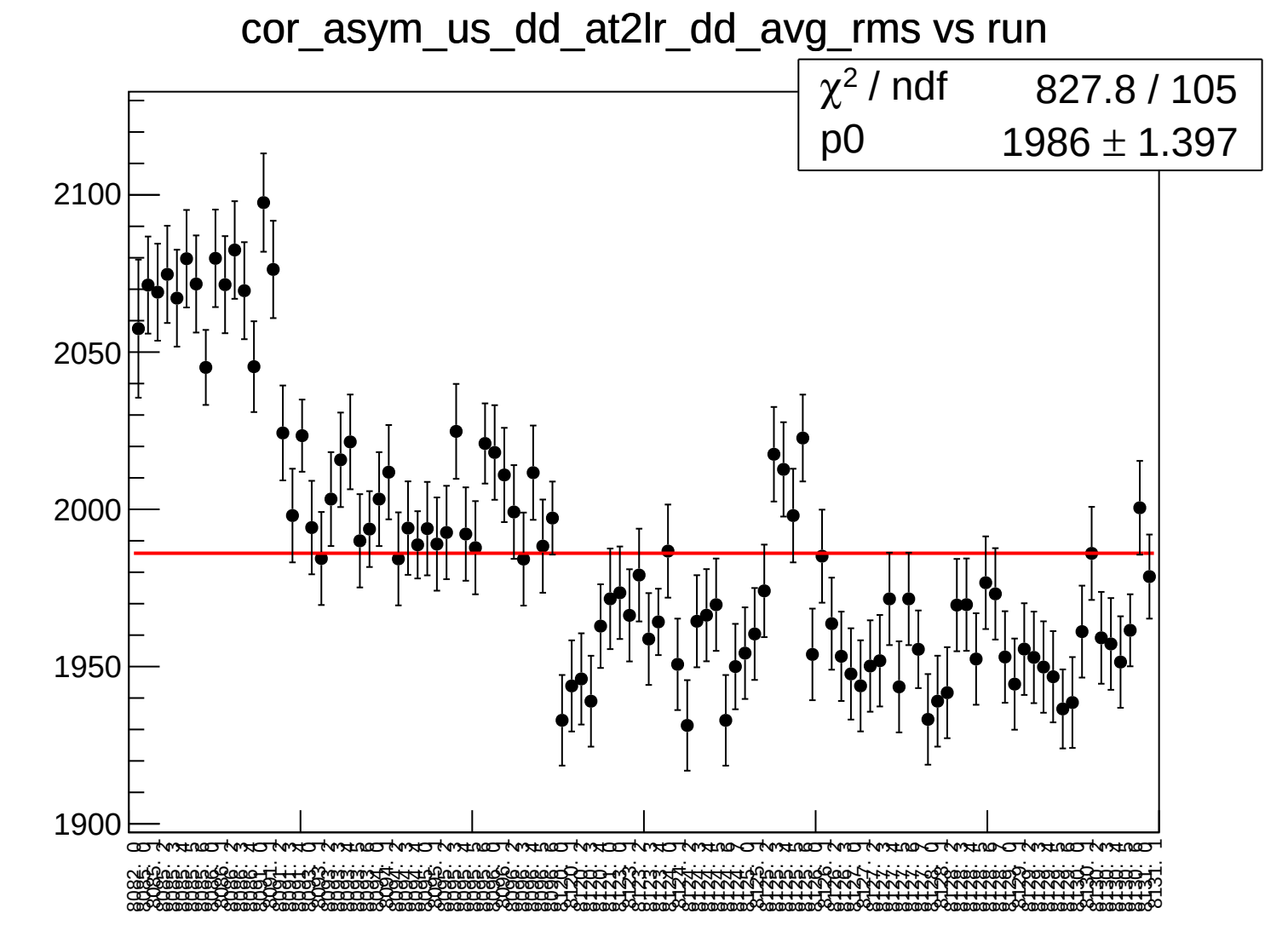

asym_us_dd_at2lr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 73.58 / 105
p0 −5004 ± 3324
100
50
0
−50
−100
pull
Entries 106
Mean −41.98
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

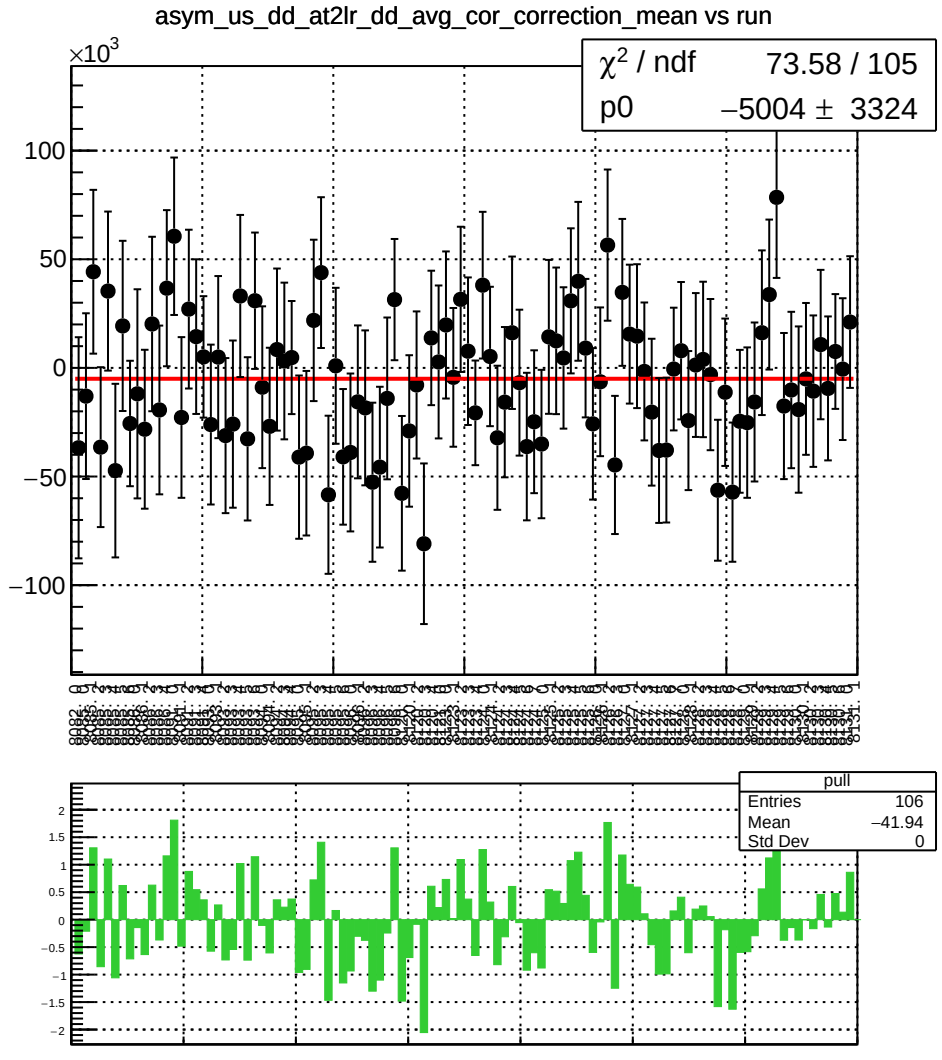

pull1D
Entries 106
Mean −0.006396
Std Dev 0.8331
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

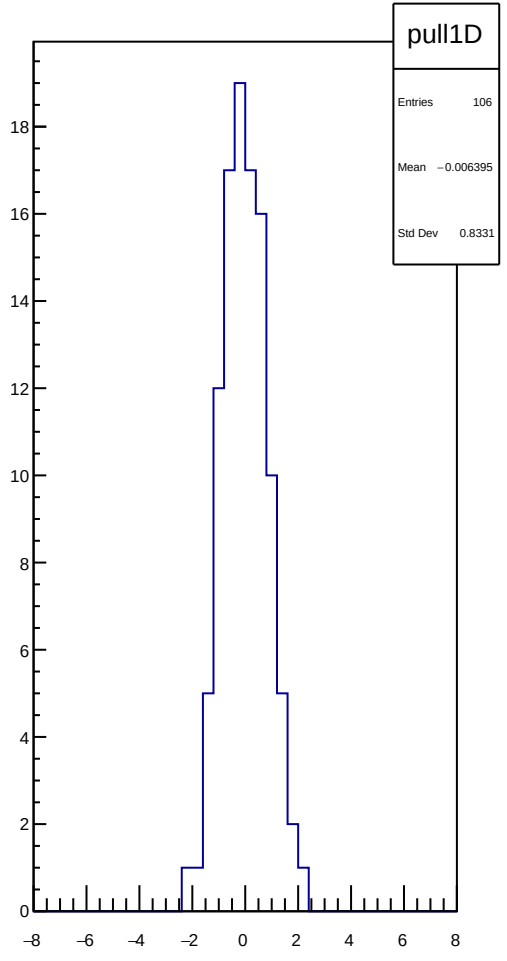

asym_us_dd_at2lr_dd_avg_reg_correction_rms vs run
χ² / ndf 7658 / 105
p0 3337 ± 2.351
4600
4400
4200
4000
3800
3600
3400
3200
3000

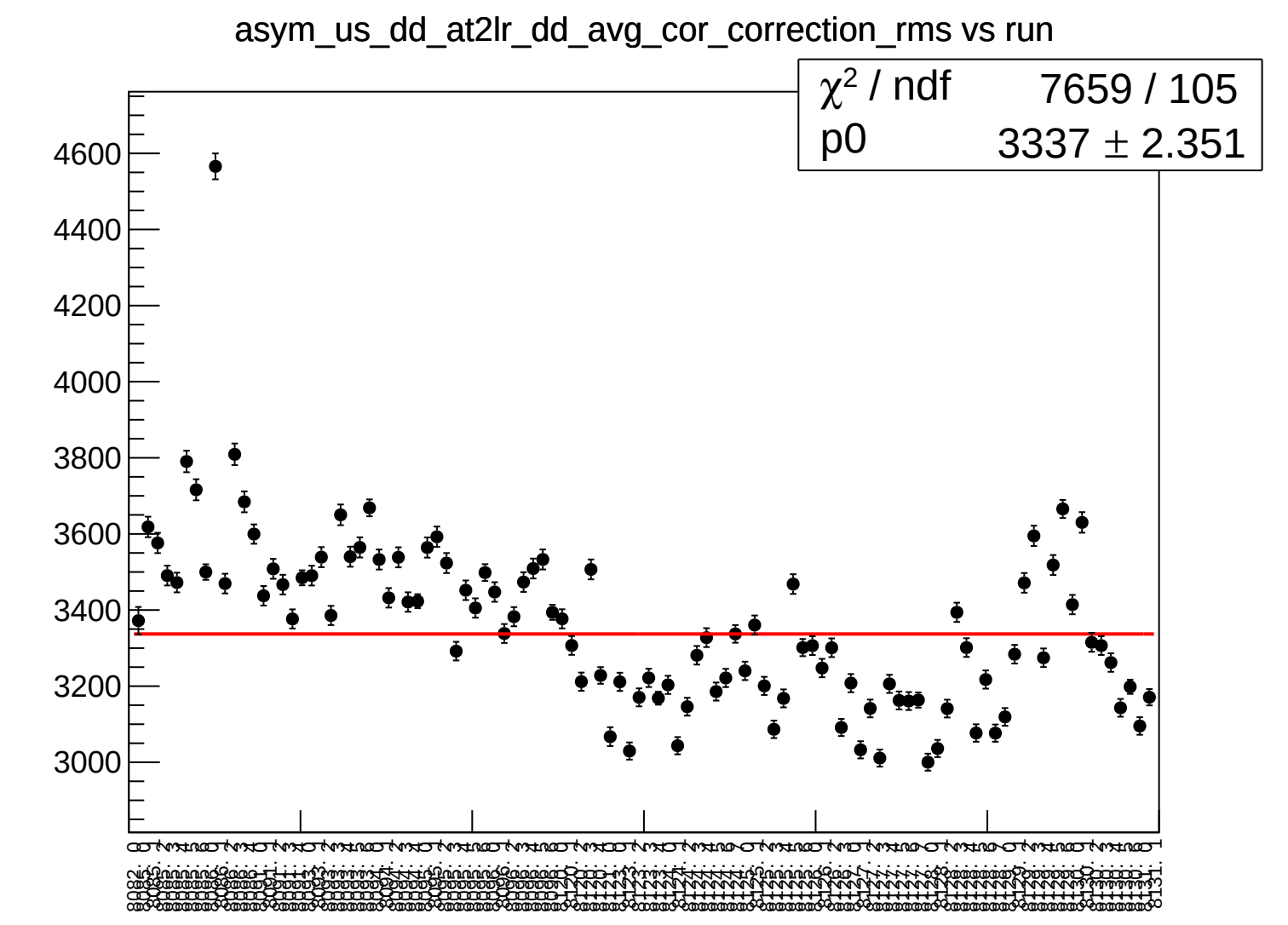

cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 91.8 / 105
p0 1202 ± 1975
pull
Entries 106
Mean −305
Std Dev 0

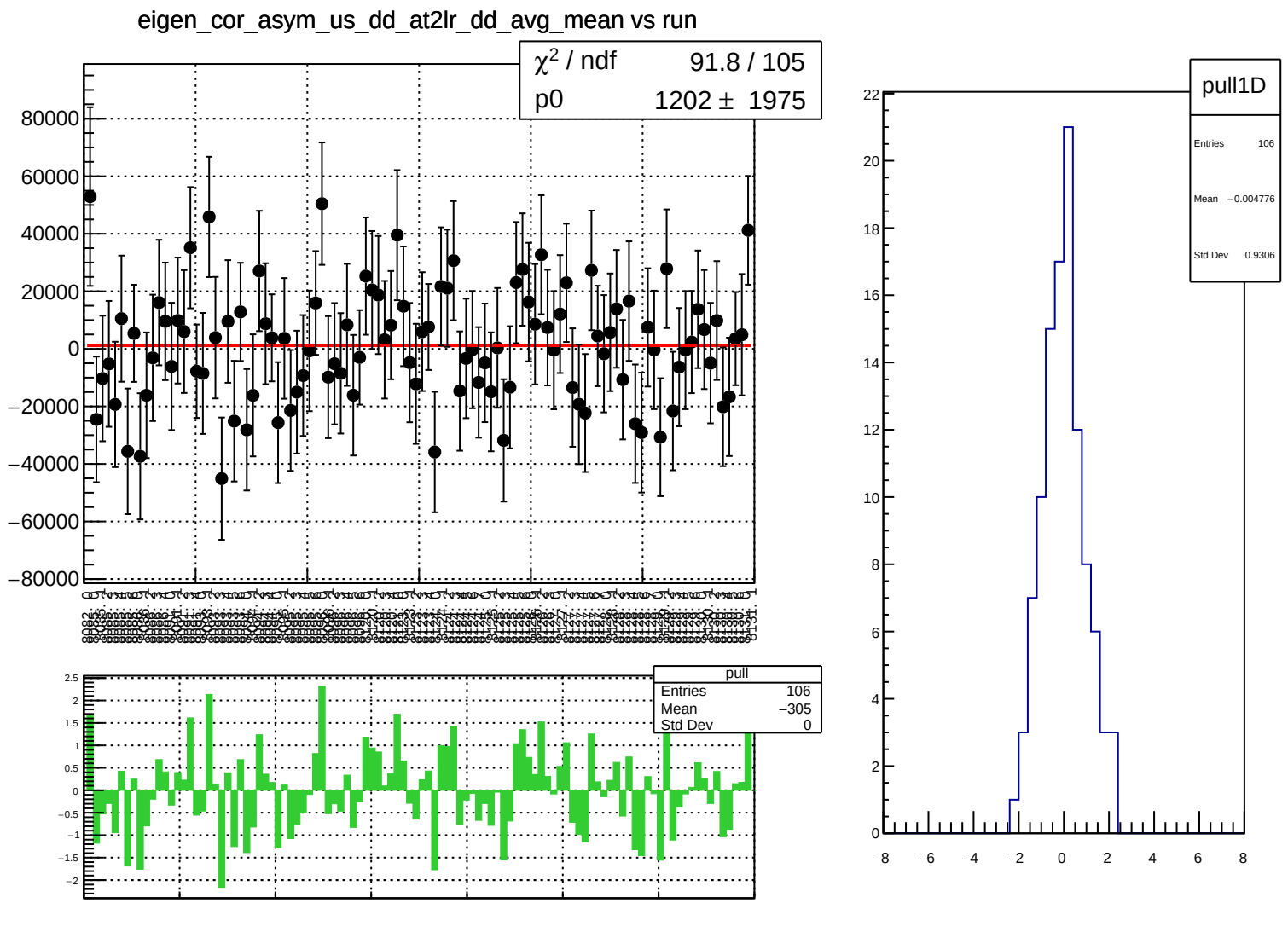

pull1D
Entries 106
Mean −0.004776
Std Dev 0.9306

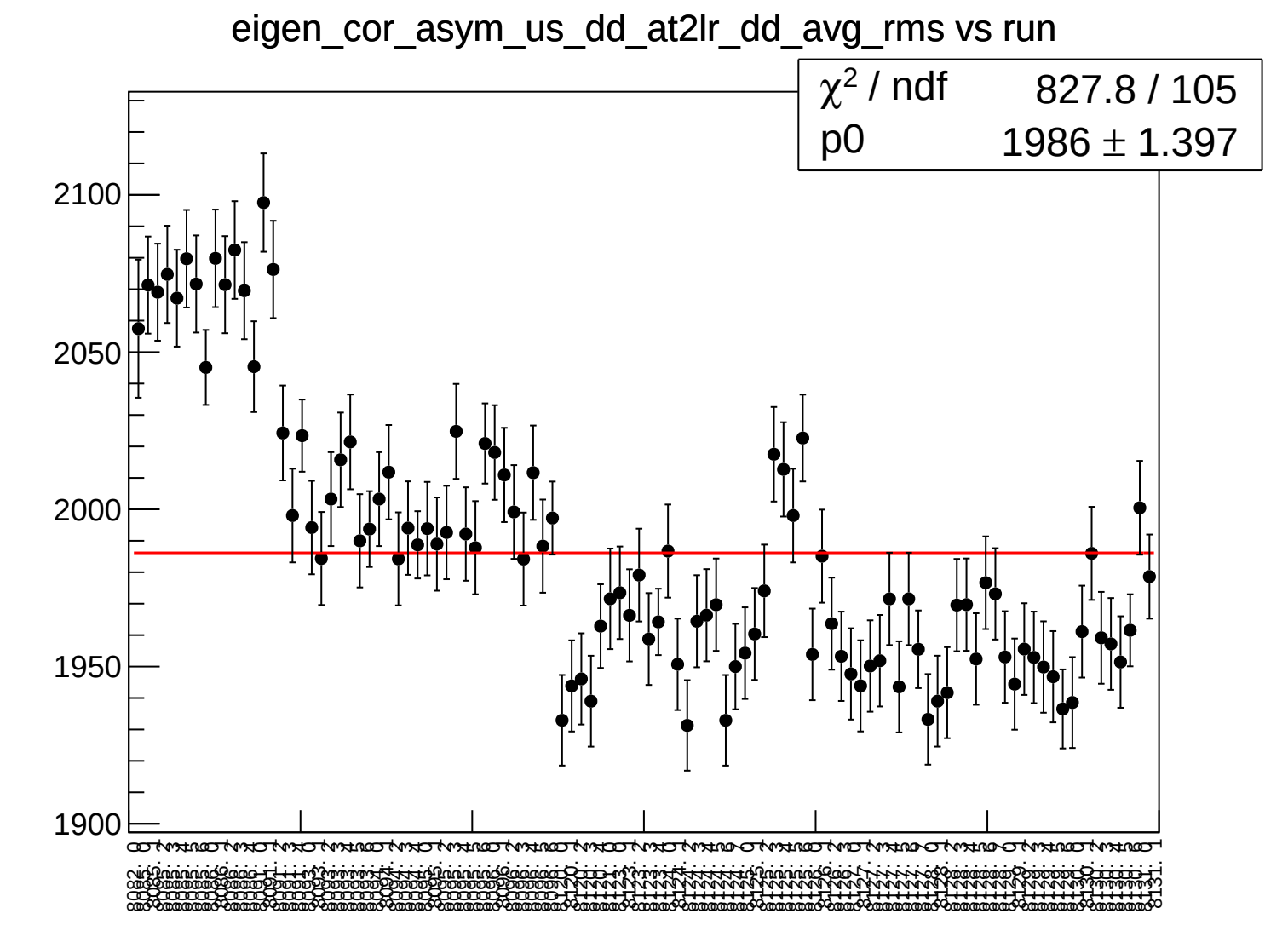

cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 827.8 / 105
p0 1986 ± 1.397
2100
2050
2000
1950
1900

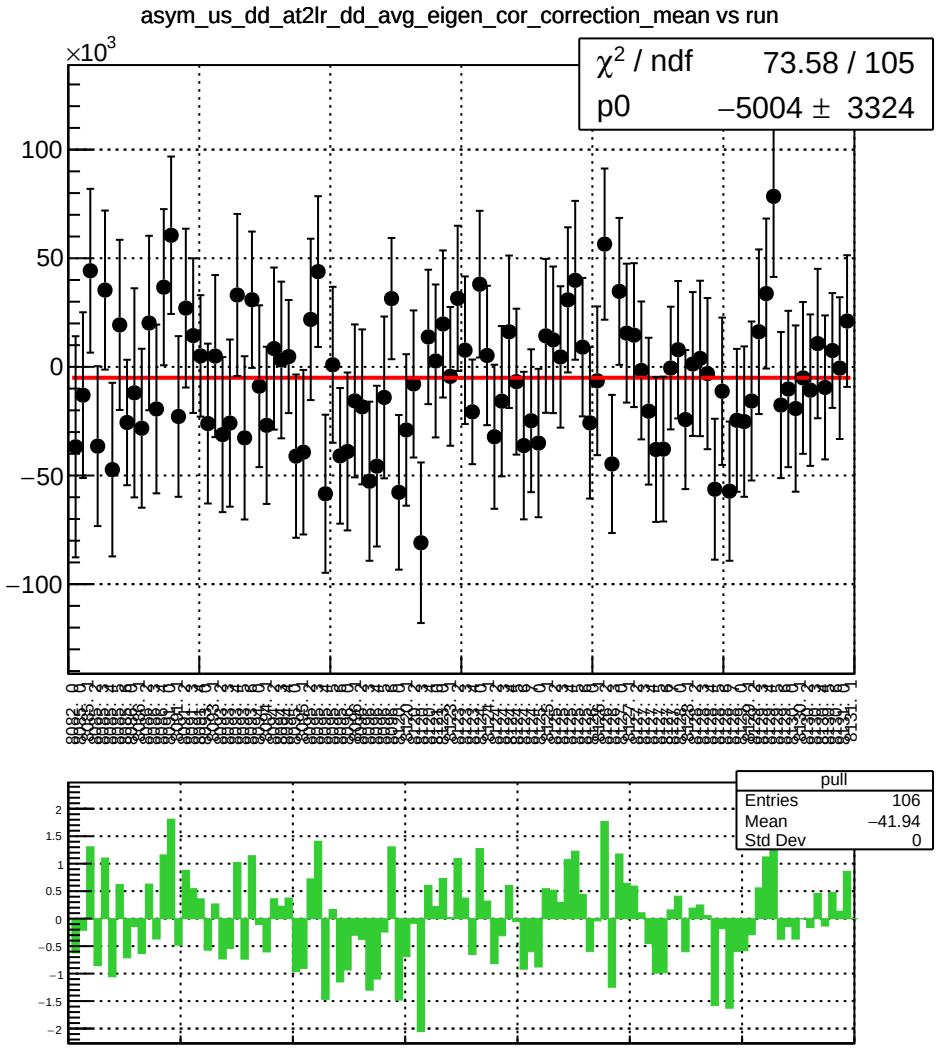

asym_us_dd_at2lr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 73.58 / 105
p0 −5004 ± 3324
100
50
0
−50
−100
pull
Entries 106
Mean −41.94
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

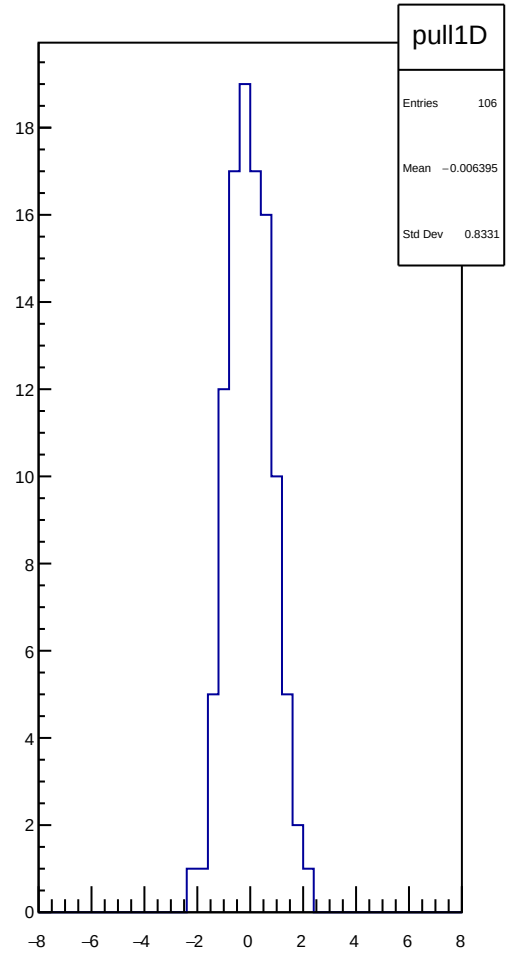

pull1D
Entries 106
Mean −0.006395
Std Dev 0.8331
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

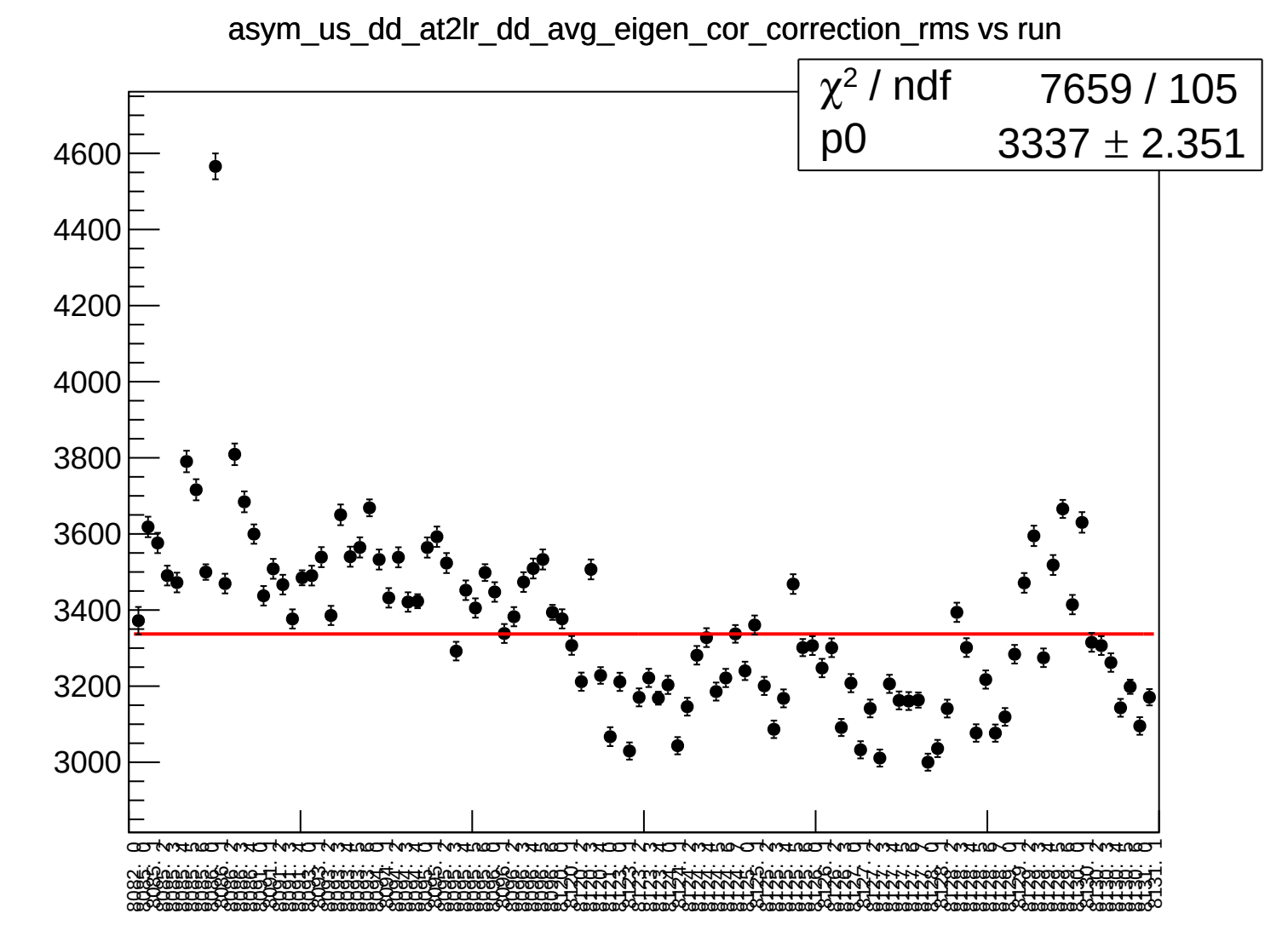

asym_us_dd_at2lr_dd_avg_cor_correction_rms vs run
χ² / ndf 7659 / 105
p0 3337 ± 2.351
4600
4400
4200
4000
3800
3600
3400
3200
3000

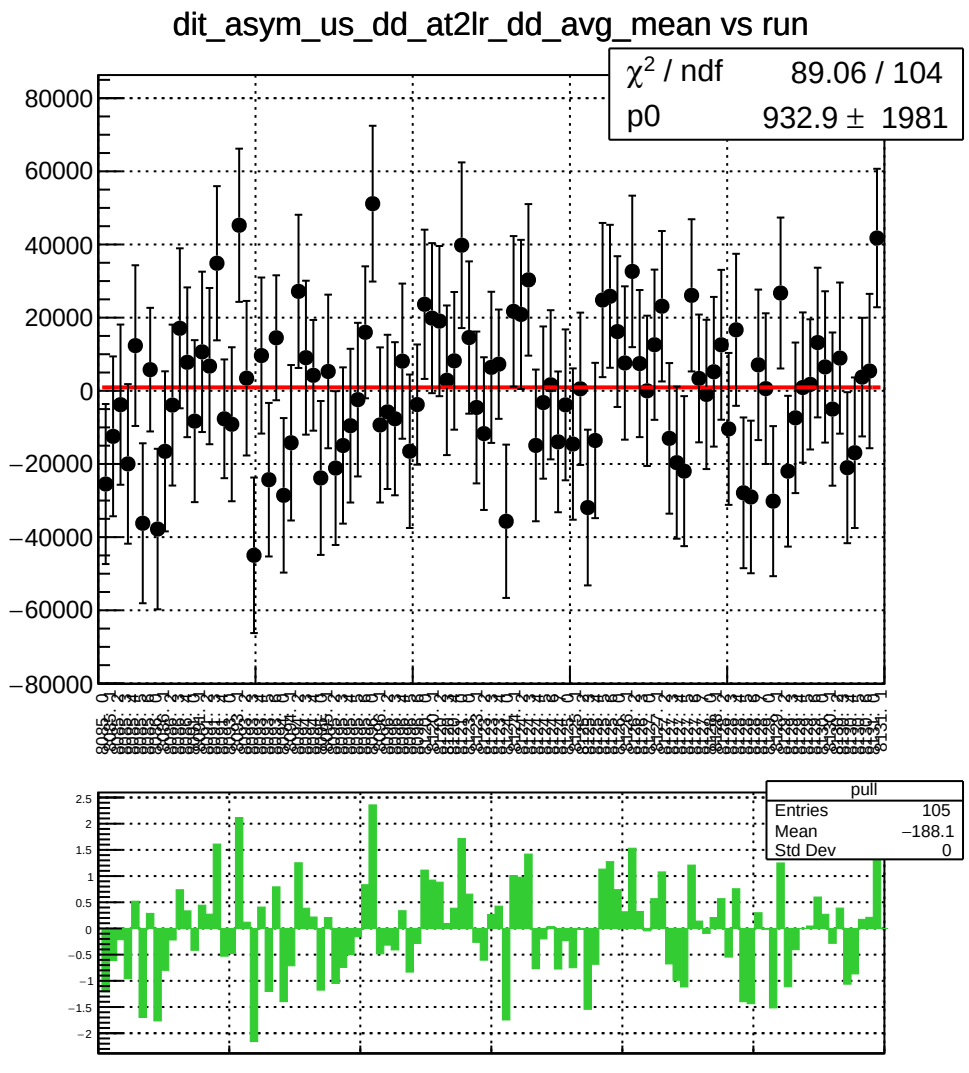

eigen_cor_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 91.8 / 105
p0 1202 ± 1975
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 106
Mean −305
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 106
Mean −0.004776
Std Dev 0.9306
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

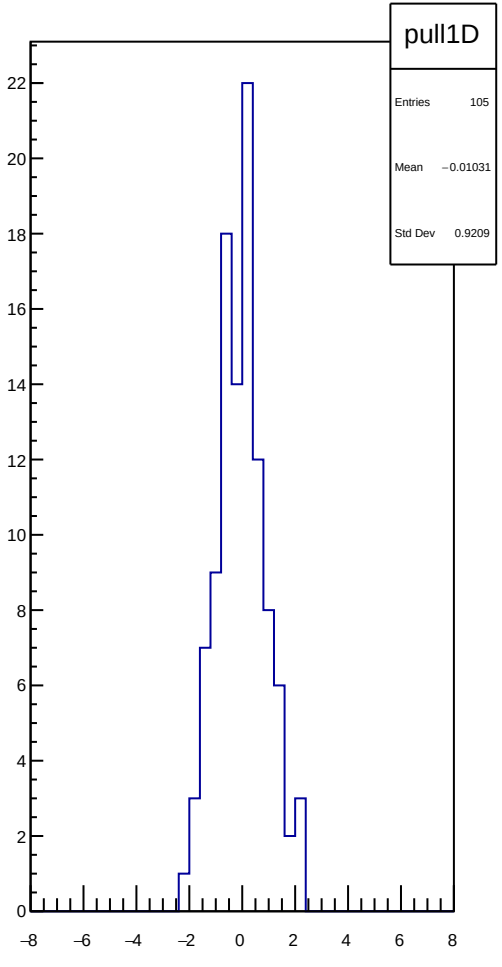

eigen_cor_asym_us_dd_at2lr_dd_avg_rms vs run
$\chi^2$ / ndf 827.8 / 105
p0 1986 ± 1.397
2100
2050
2000
1950
1900

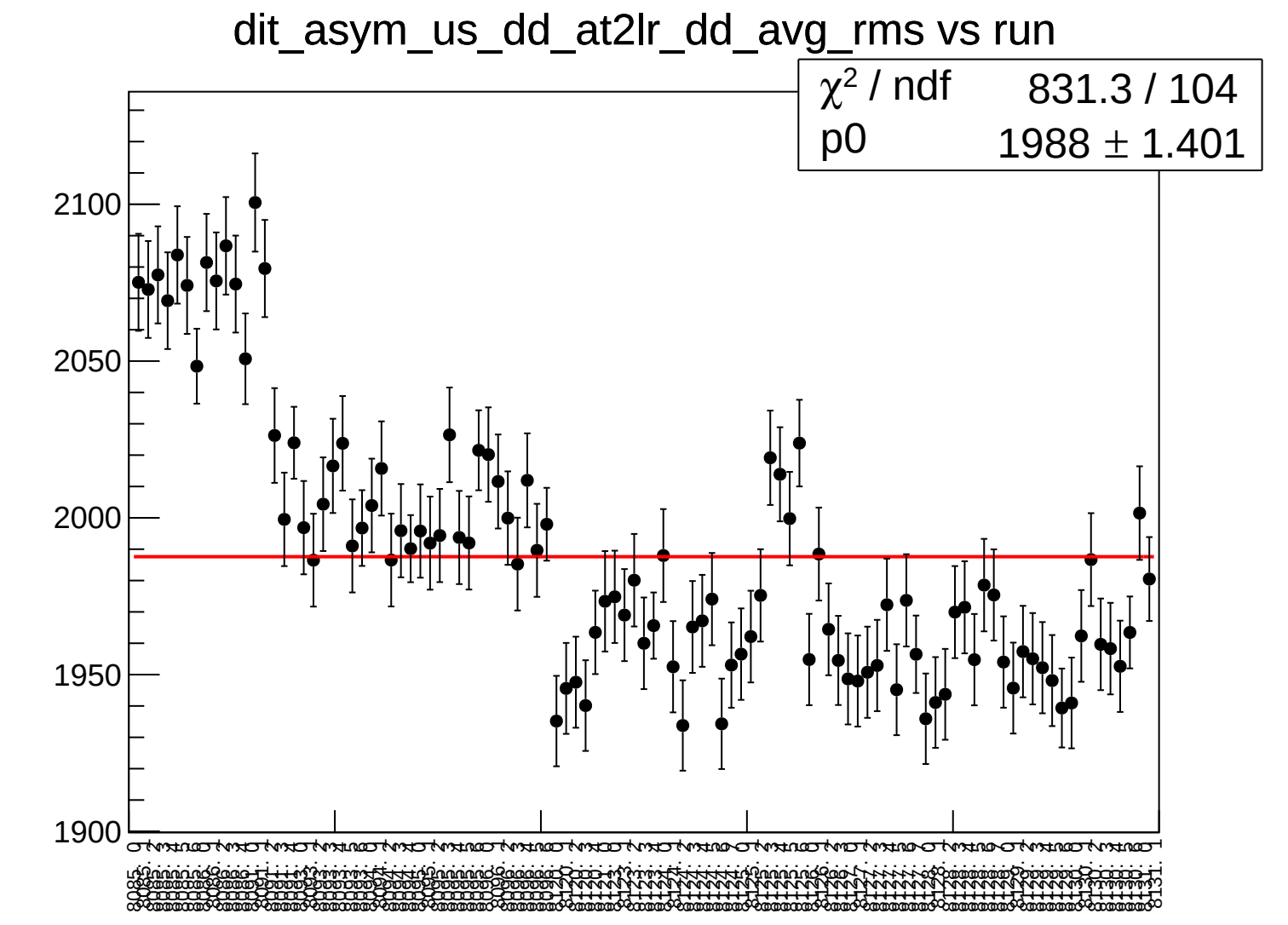

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 73.58 / 105
p0 −5004 ± 3324
100
50
0
−50
−100
pull
Entries 106
Mean −41.94
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

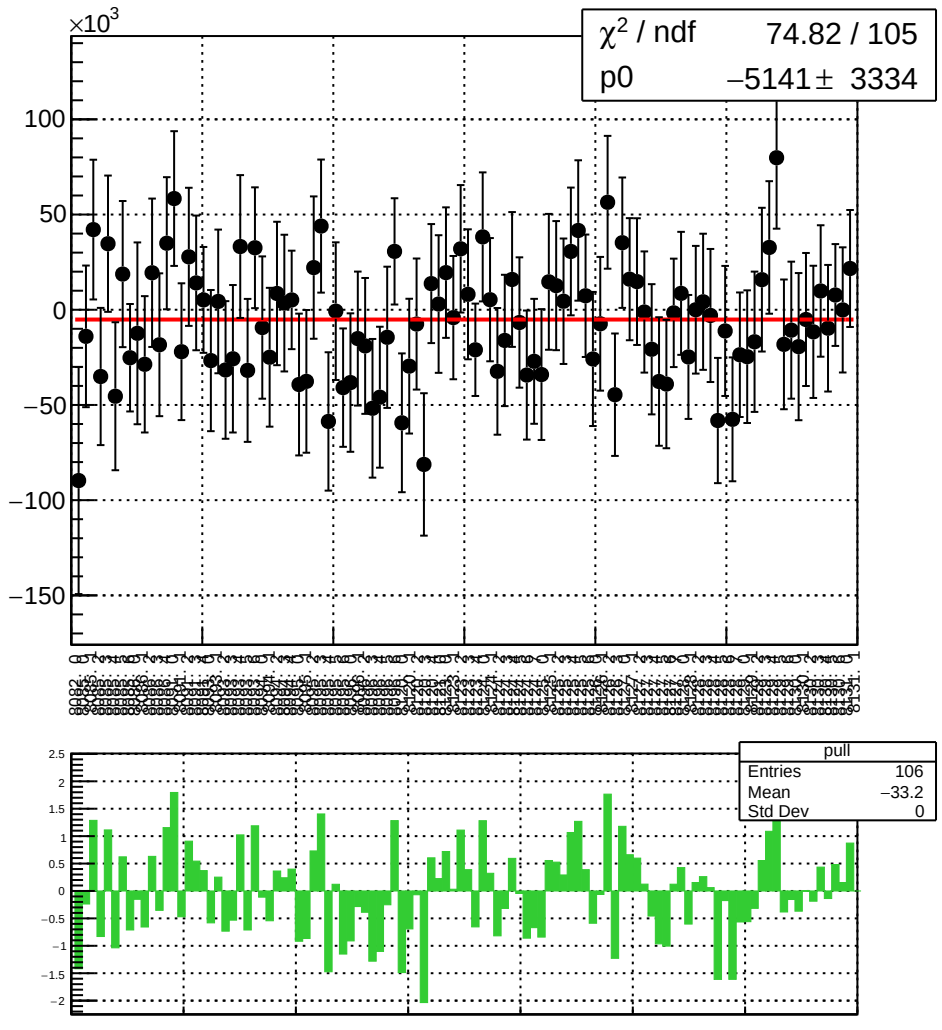

pull1D
Entries 106
Mean −0.006395
Std Dev 0.8331
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

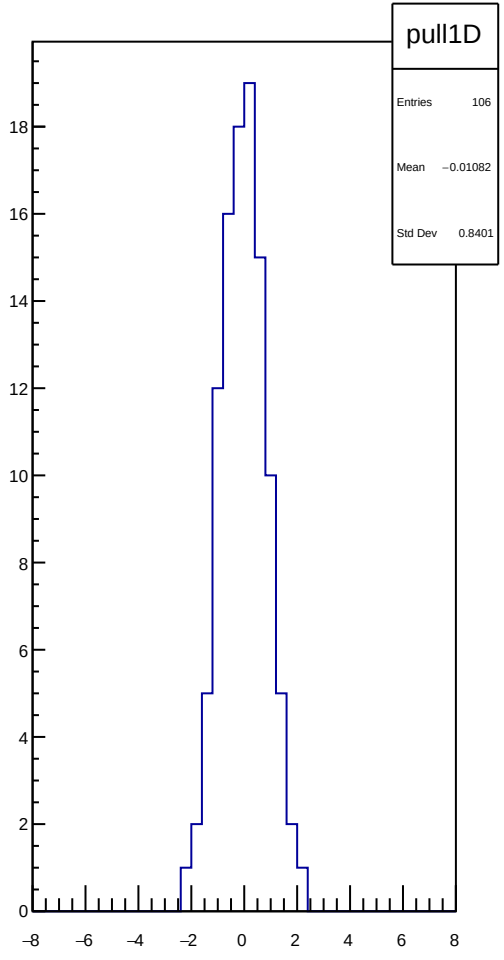

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 7659 / 105
p0 3337 ± 2.351
4600
4400
4200
4000
3800
3600
3400
3200
3000

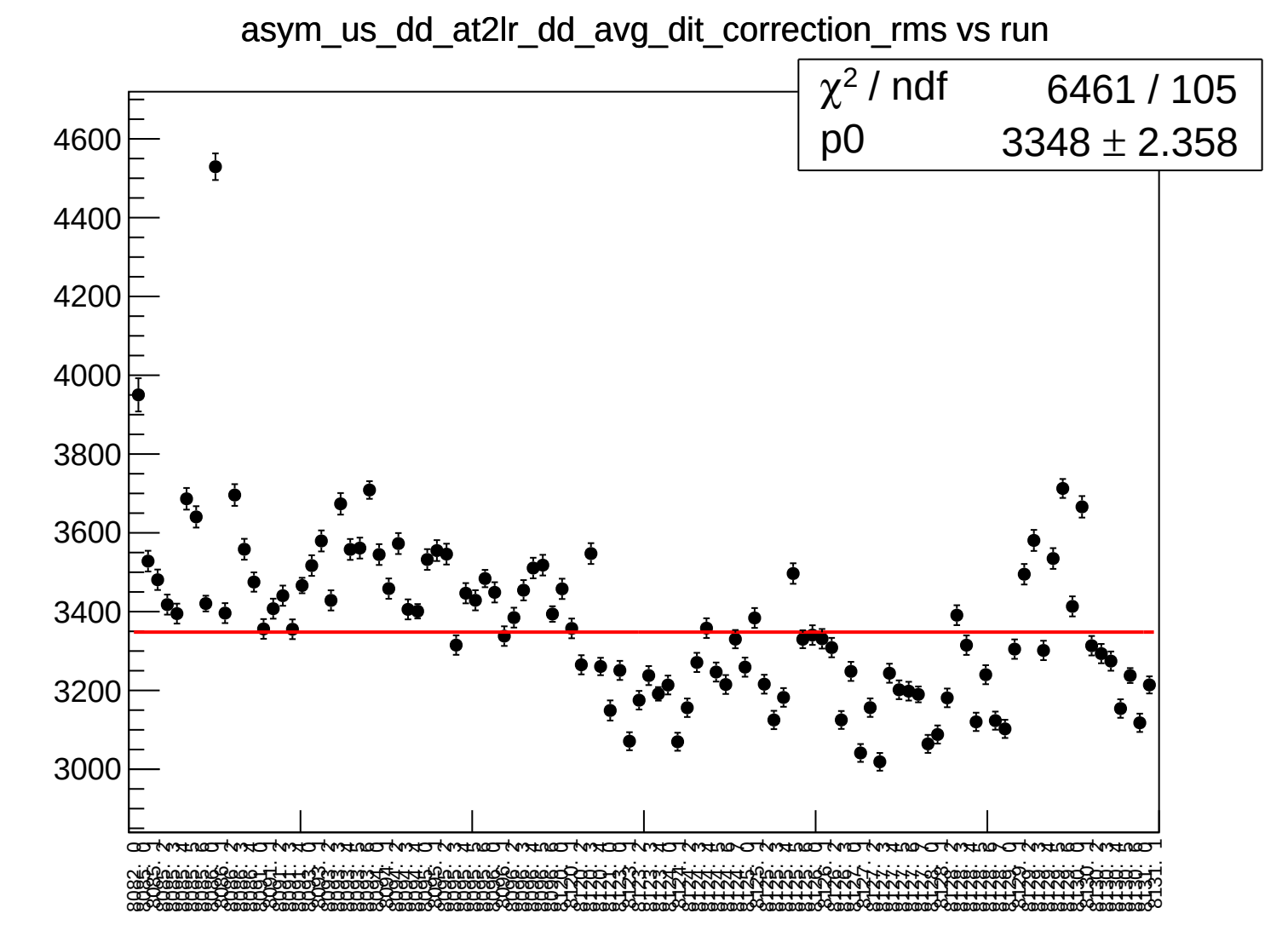

dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 89.06 / 104
p0 932.9 ± 1981
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 105
Mean −188.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

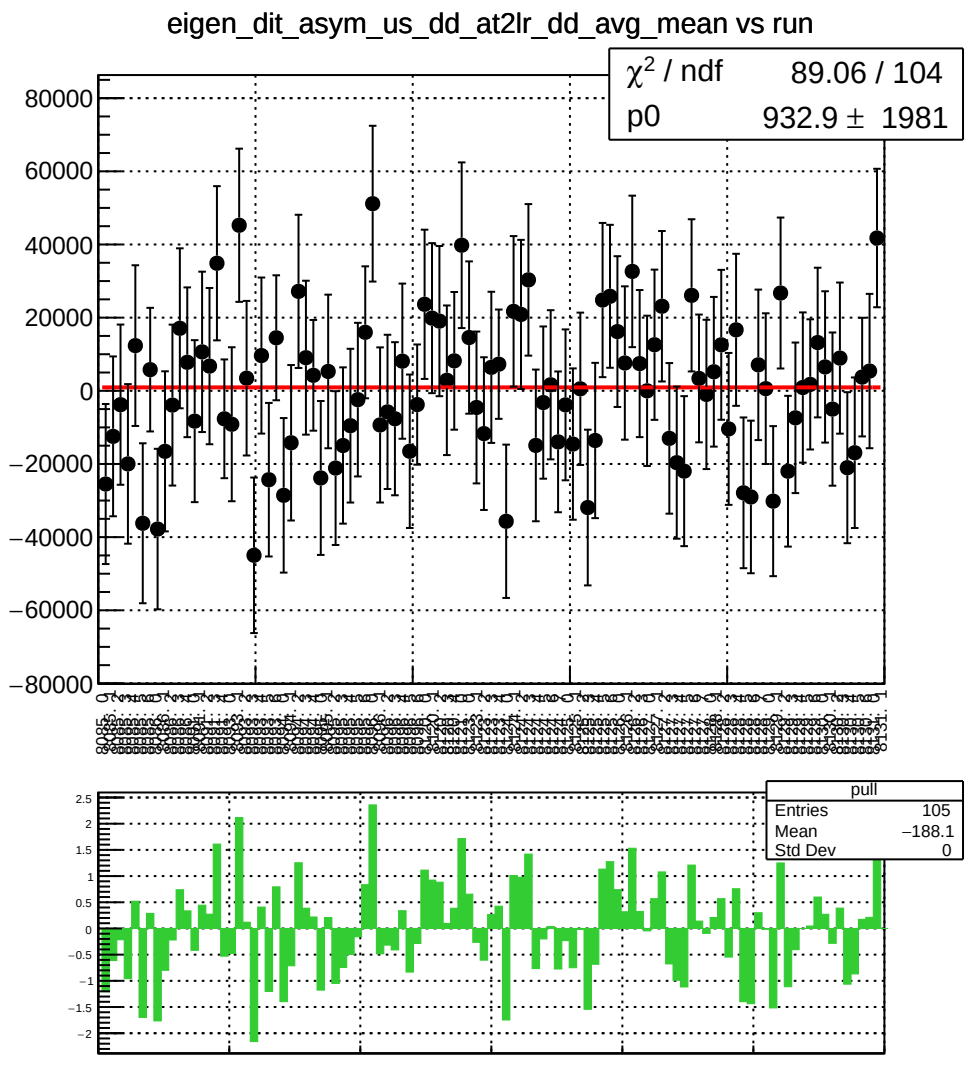

pull1D
Entries 105
Mean −0.01031
Std Dev 0.9209
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

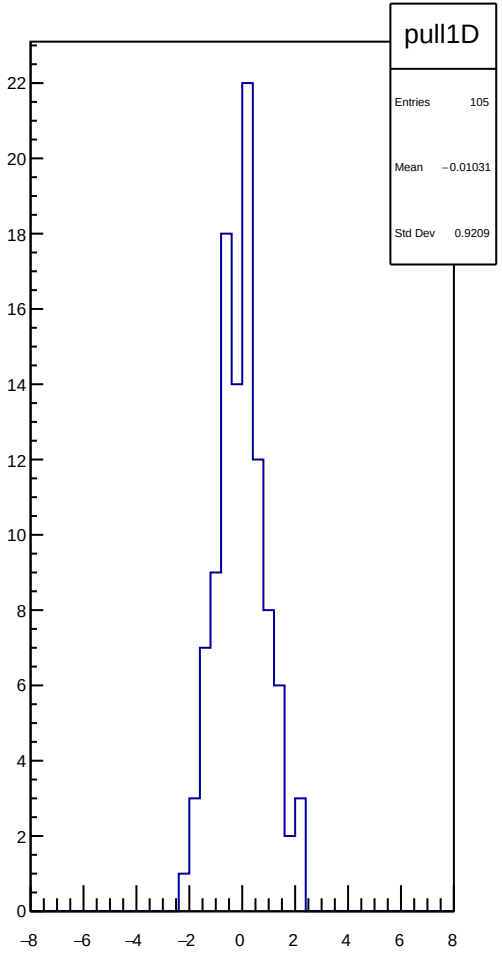

dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 831.3 / 104
p0 1988 ± 1.401
2100
2050
2000
1950
1900

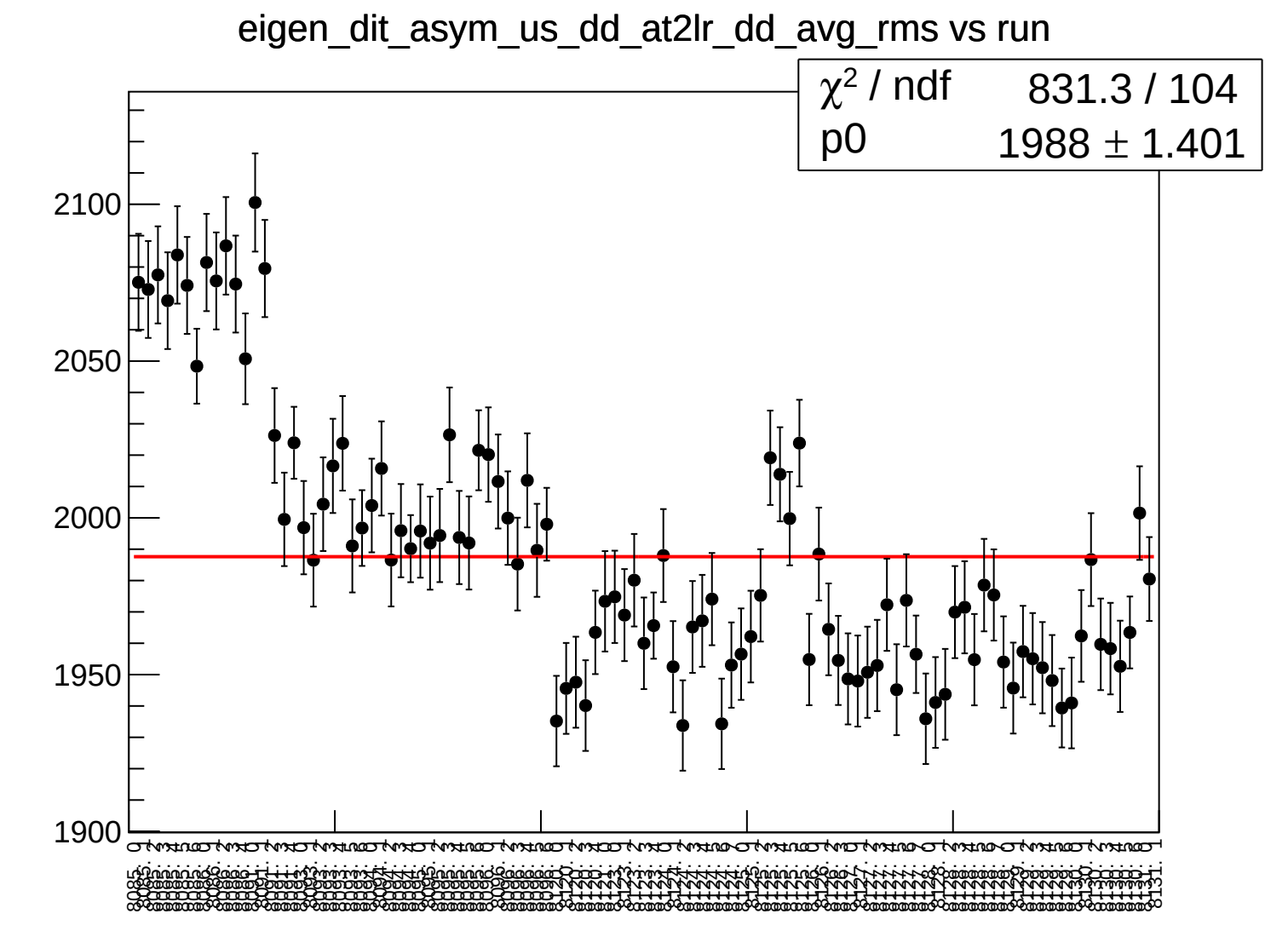

asym_us_dd_at2lr_dd_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 74.82 / 105
p0 −5141 ± 3334
100
50
0
−50
−100
−150
pull
Entries 106
Mean −33.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

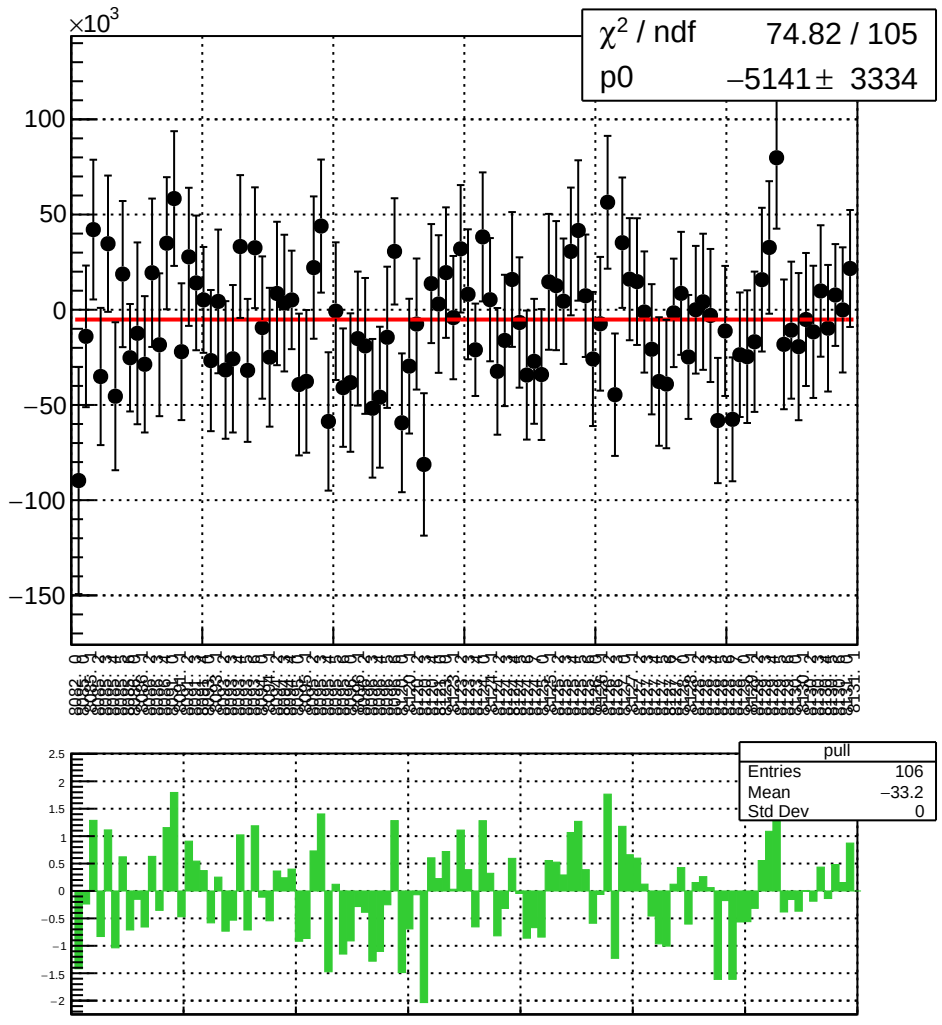

pull1D
Entries 106
Mean −0.01082
Std Dev 0.8401
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

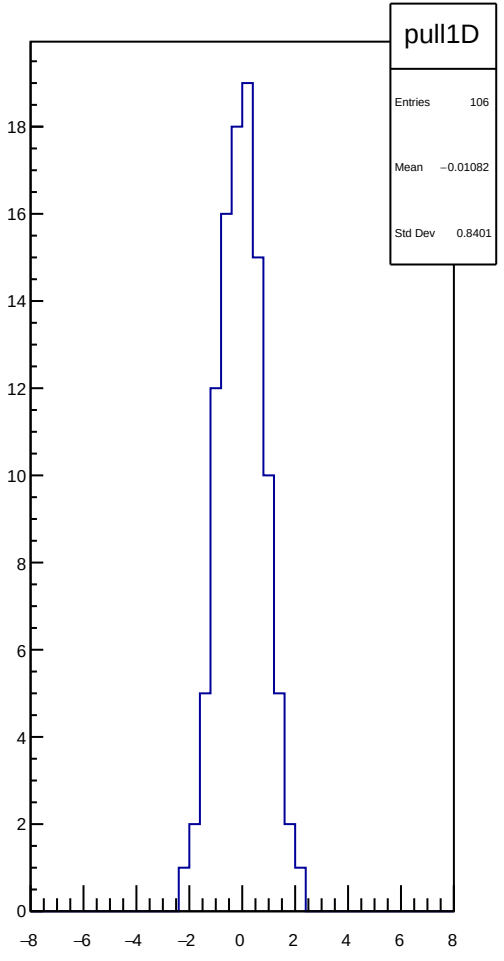

asym_us_dd_at2lr_dd_avg_dit_correction_rms vs run
χ² / ndf 6461 / 105
p0 3348 ± 2.358
4600
4400
4200
4000
3800
3600
3400
3200
3000

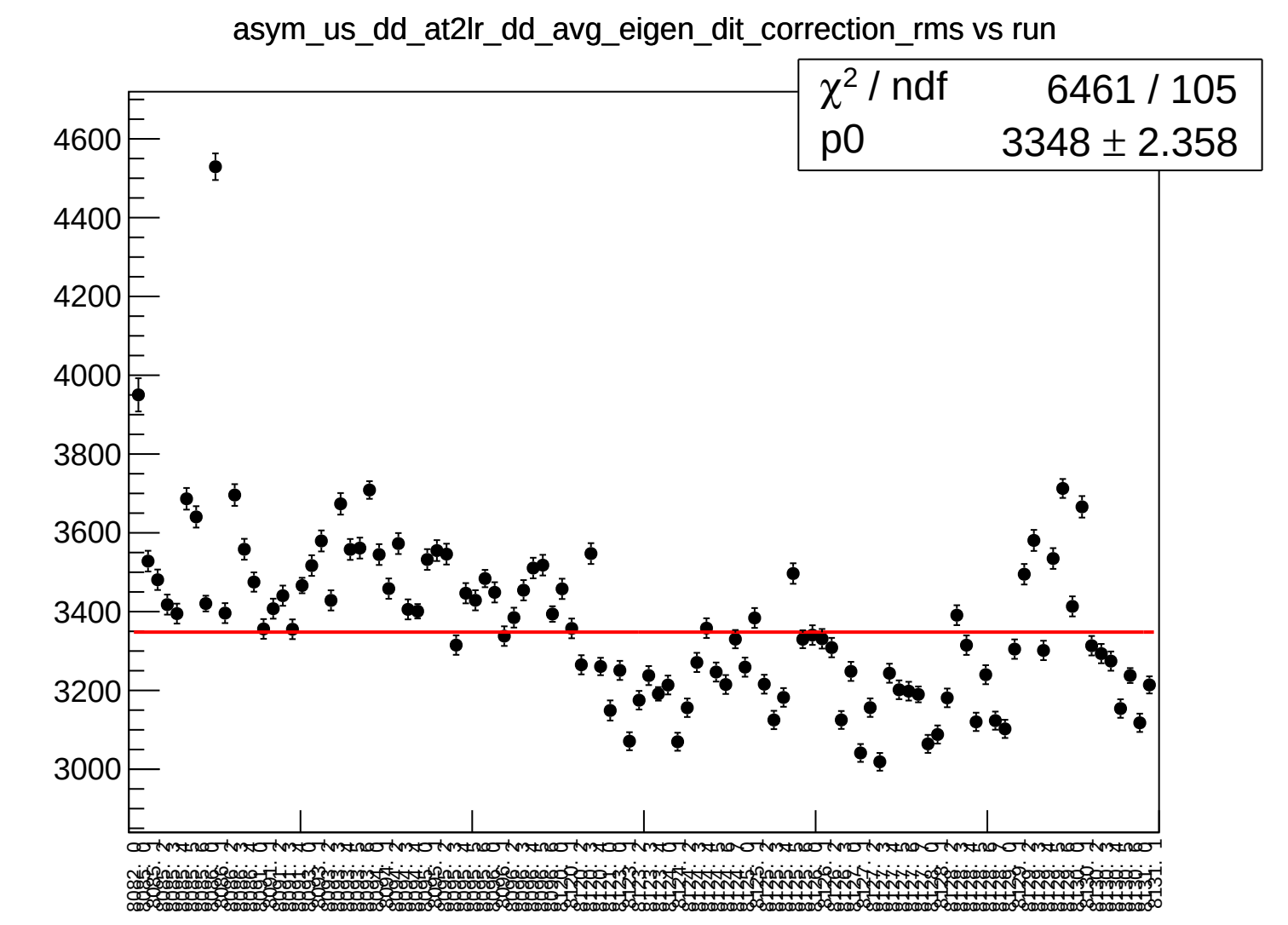

eigen_dit_asym_us_dd_at2lr_dd_avg_mean vs run
χ² / ndf 89.06 / 104
p0 932.9 ± 1981
pull
Entries 105
Mean −188.1
Std Dev 0

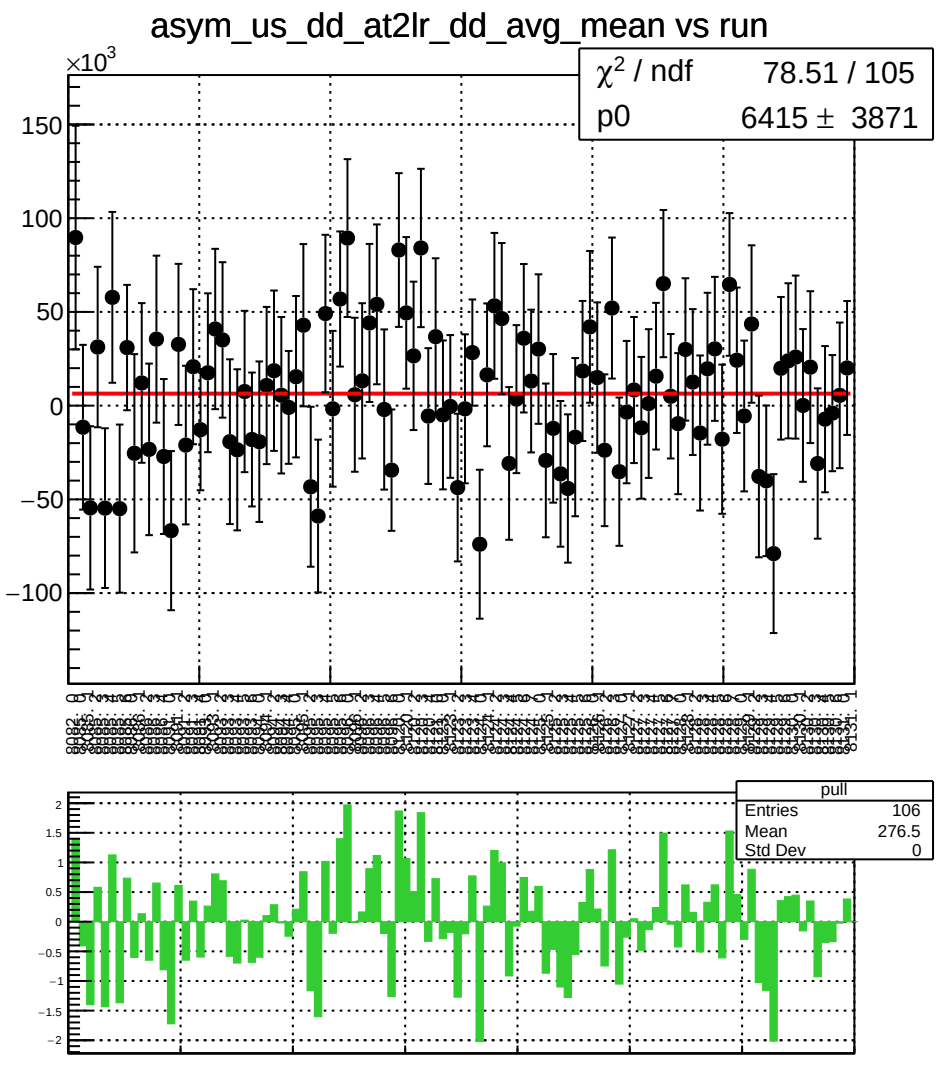

pull1D
Entries 105
Mean −0.01031
Std Dev 0.9209

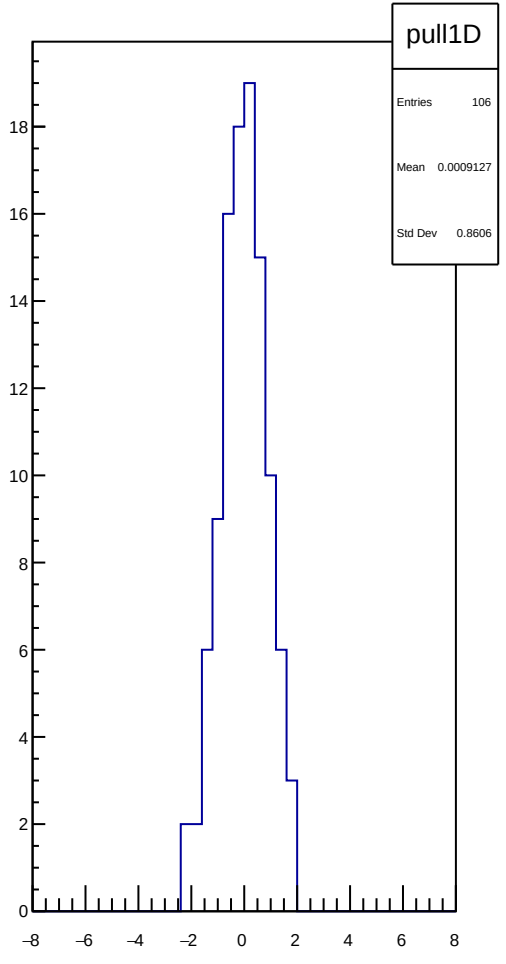

eigen_dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 831.3 / 104
p0 1988 ± 1.401
2100
2050
2000
1950
1900

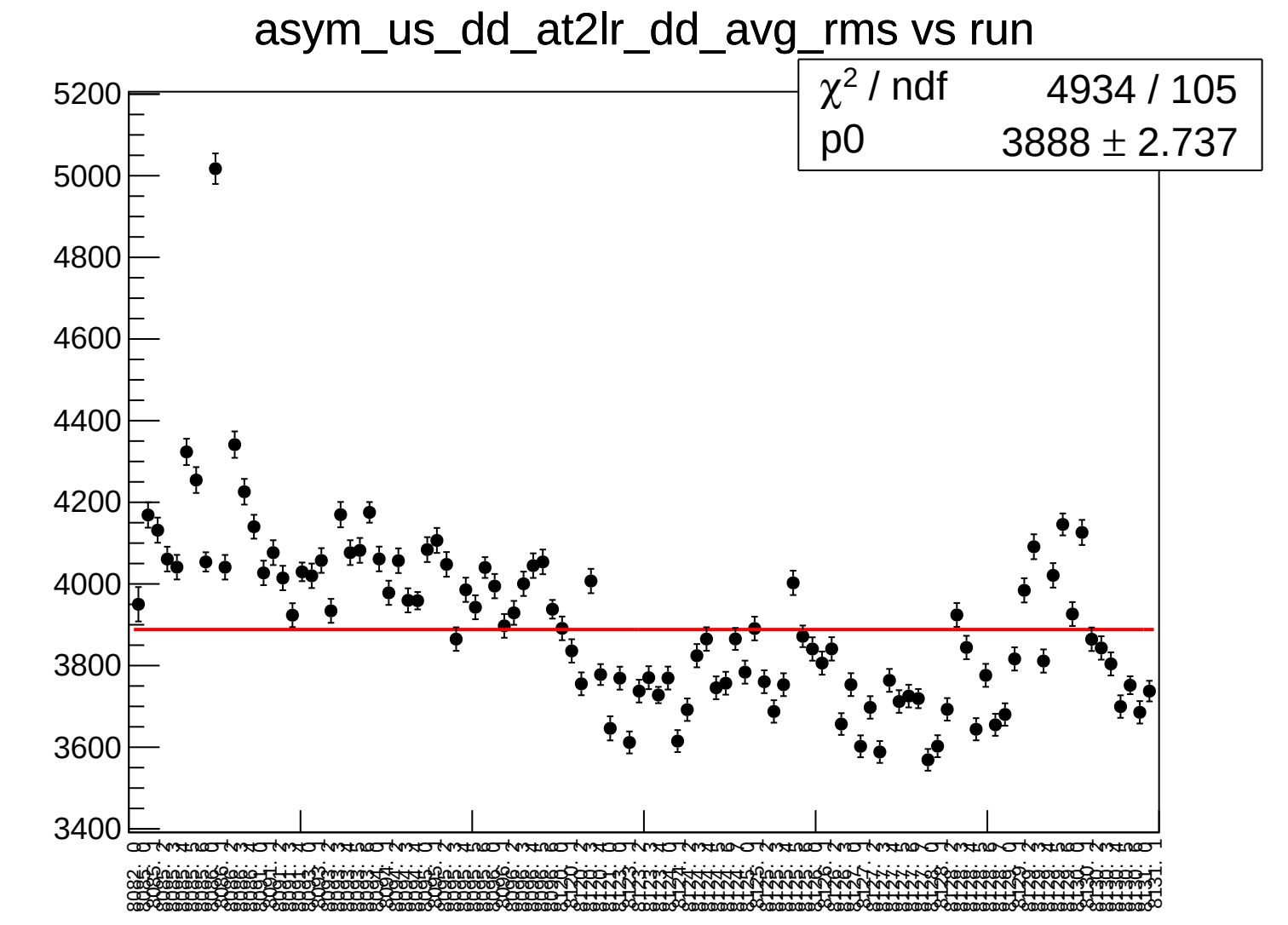

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 74.82 / 105
p0 −5141 ± 3334
100
50
0
−50
−100
−150
pull
Entries 106
Mean −33.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

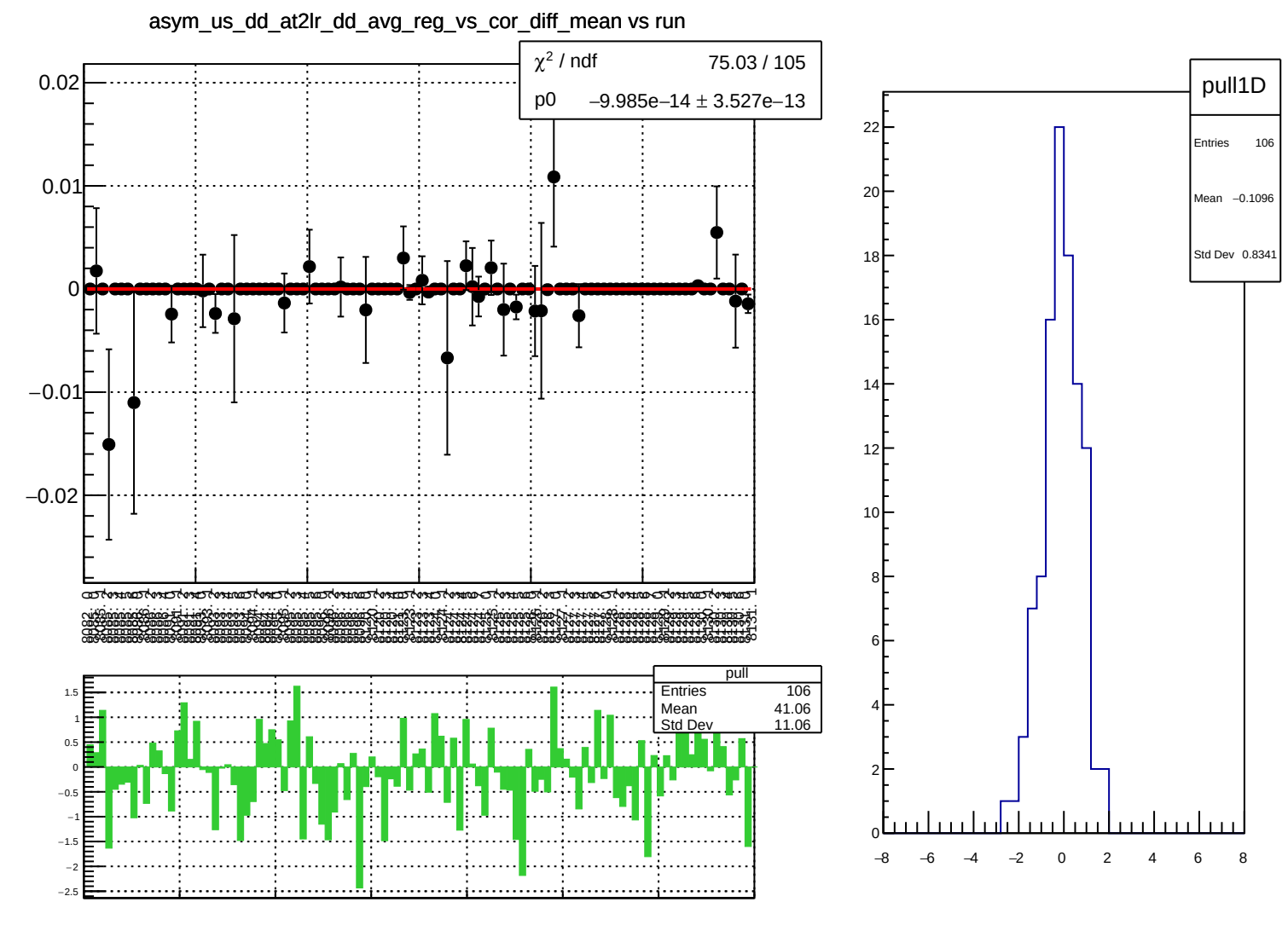

pull1D
Entries 106
Mean −0.01082
Std Dev 0.8401
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

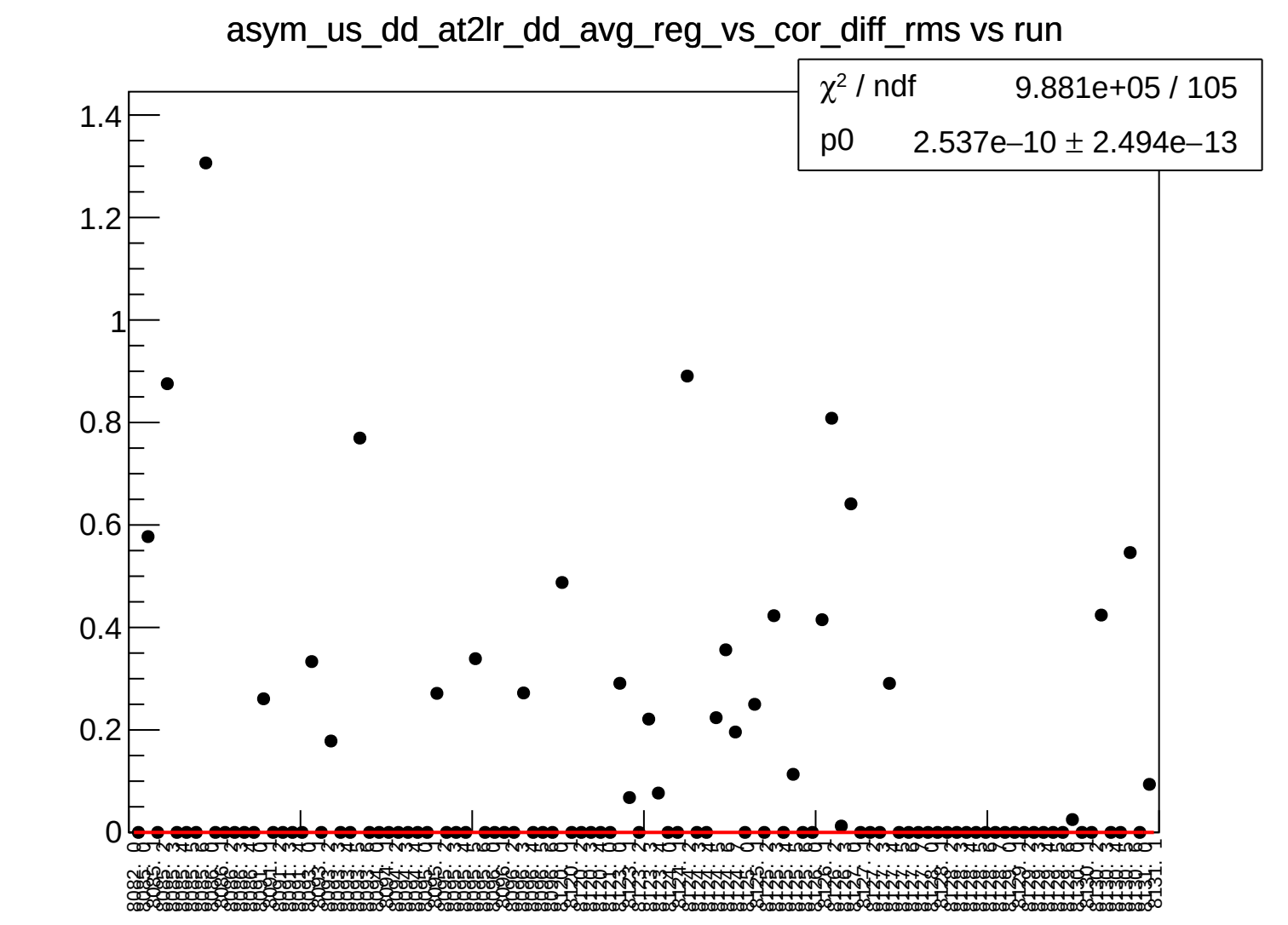

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 6461 / 105
p0 3348 ± 2.358
4600
4400
4200
4000
3800
3600
3400
3200
3000

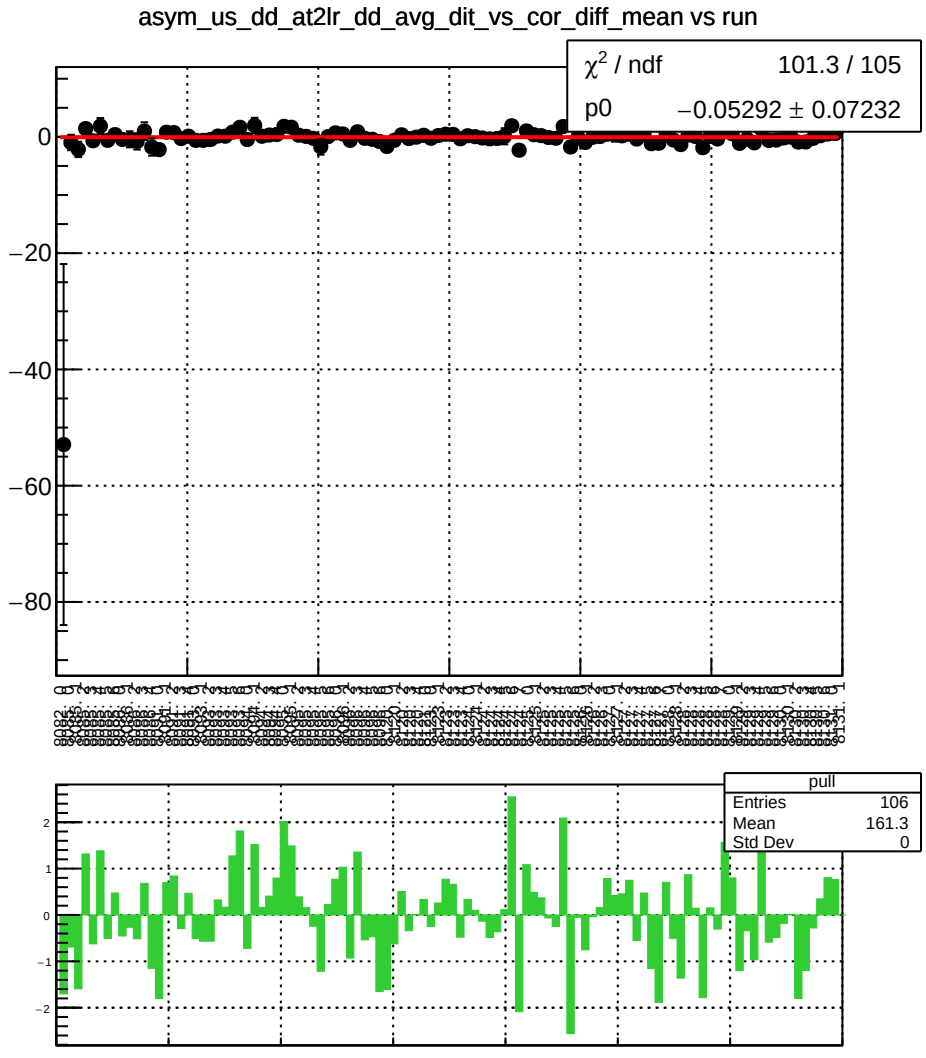

asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 78.51 / 105
p0 6415 ± 3871
150
100
50
0
−50
−100
pull
Entries 106
Mean 276.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

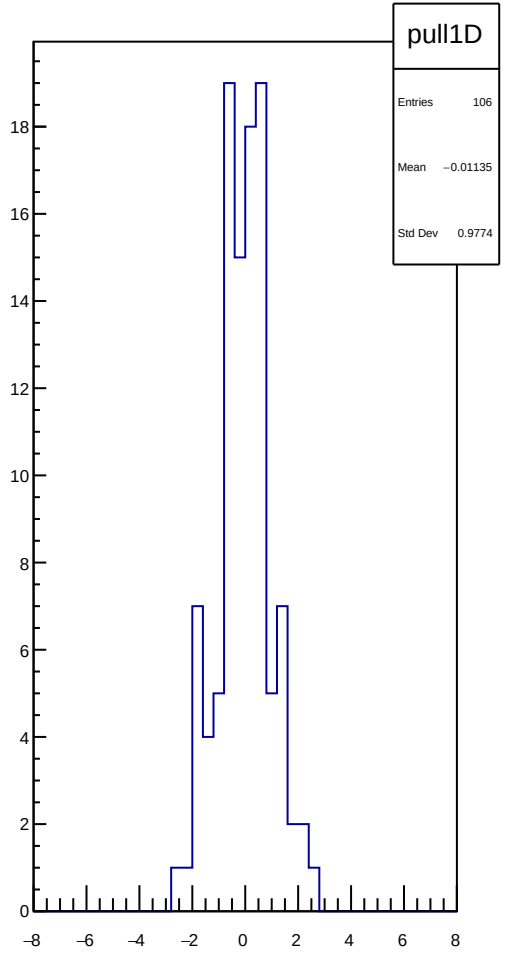

pull1D
Entries 106
Mean 0.0009127
Std Dev 0.8606
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

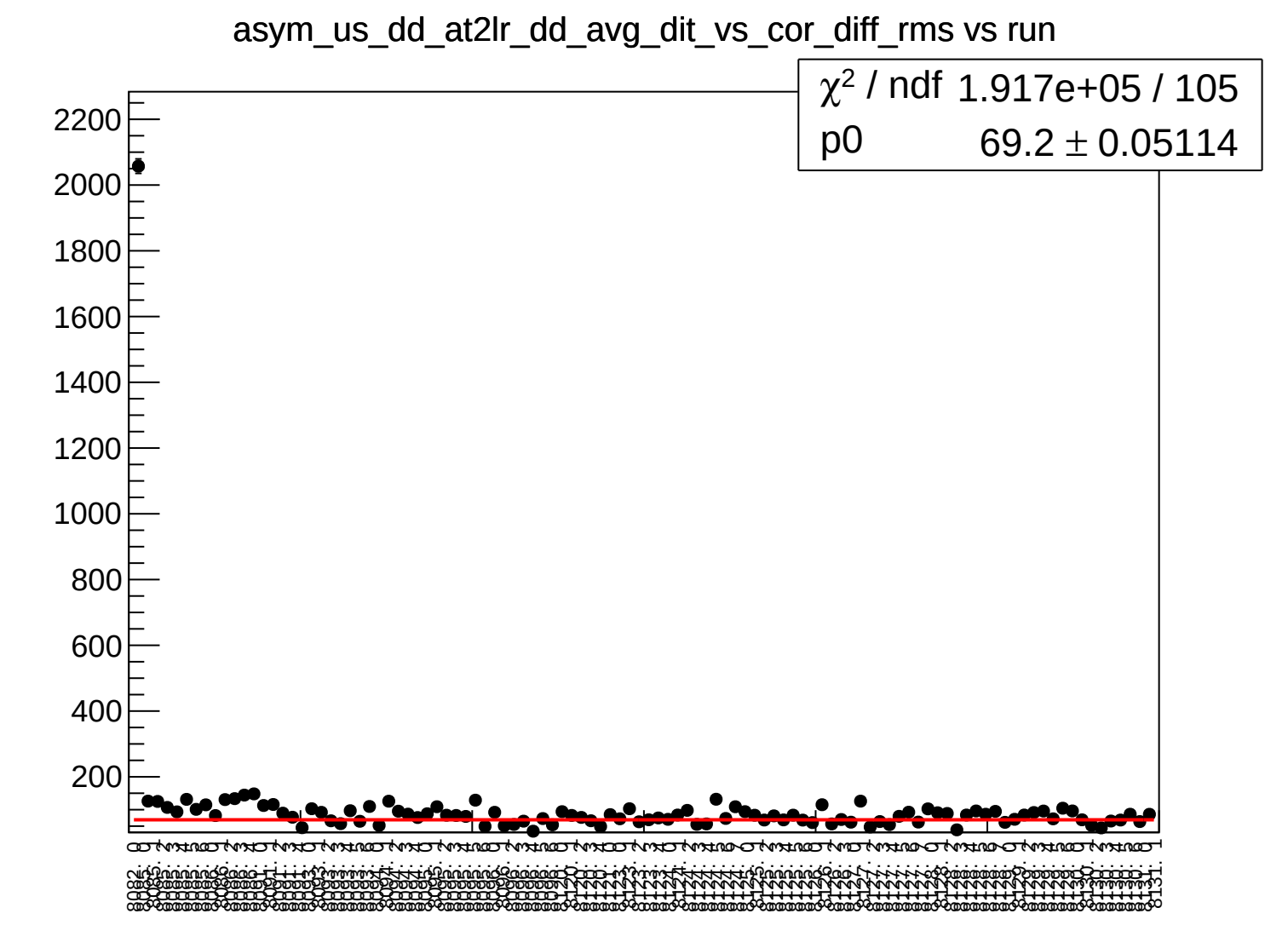

asym_us_dd_at2lr_dd_avg_rms vs run
$\chi^2$ / ndf 4934 / 105
p0 3888 ± 2.737
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400

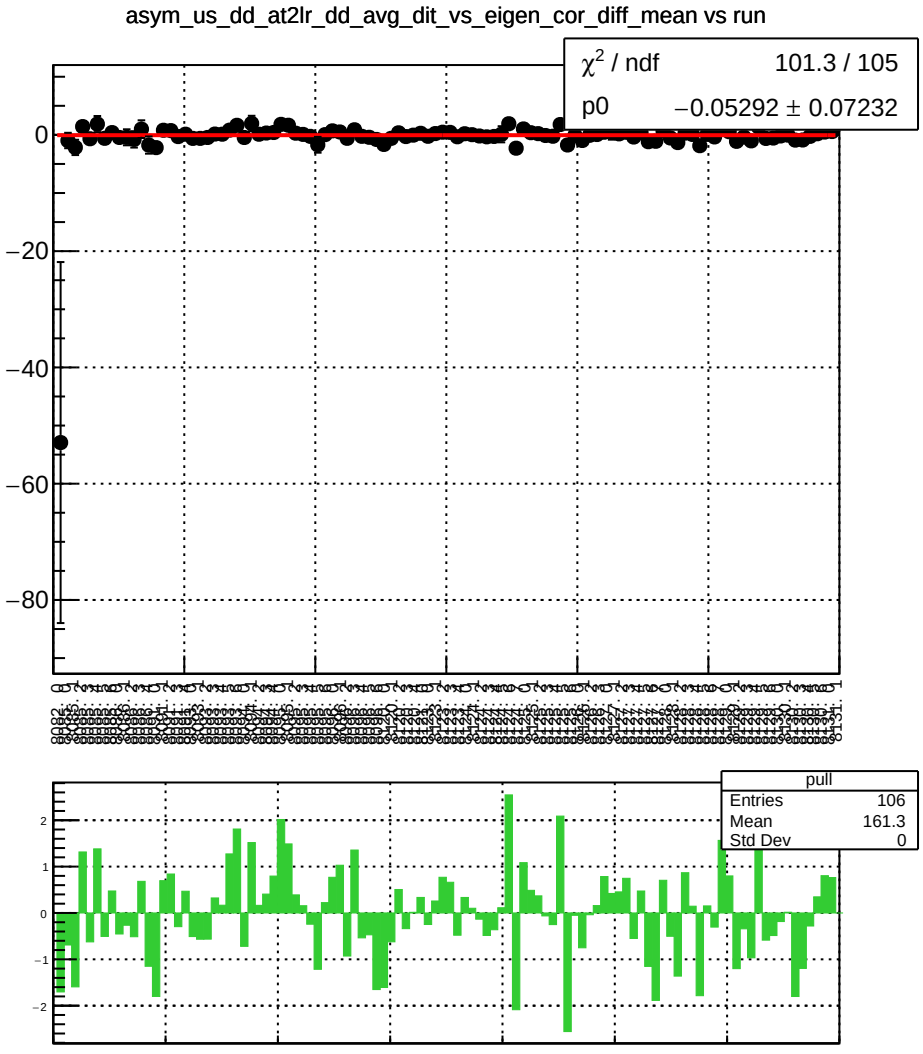

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 75.03 / 105
p0 −9.985e−14 ± 3.527e−13
pull
Entries 106
Mean 41.06
Std Dev 11.06
pull1D
Entries 106
Mean −0.1096
Std Dev 0.8341

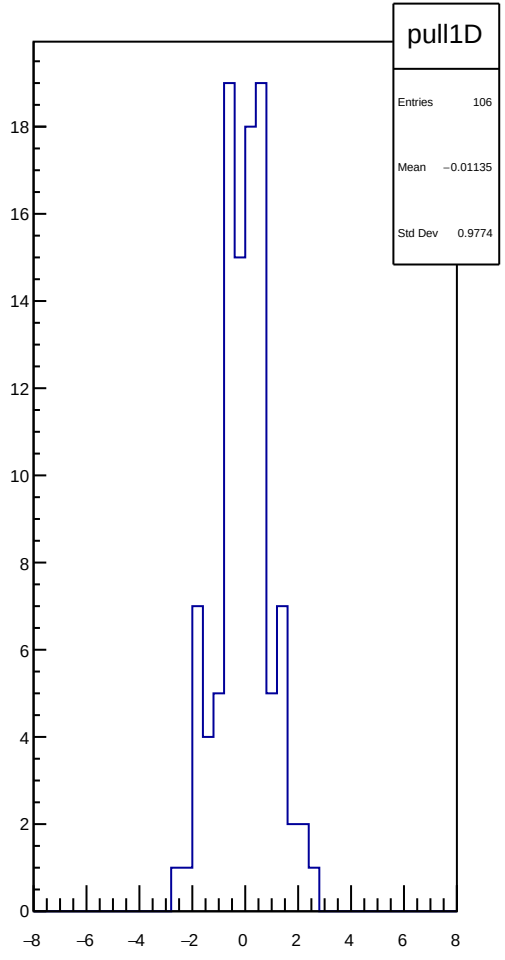

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.881e+05 / 105
p0 2.537e−10 ± 2.494e−13
1.4
1.2
1
0.8
0.6
0.4
0.2
0

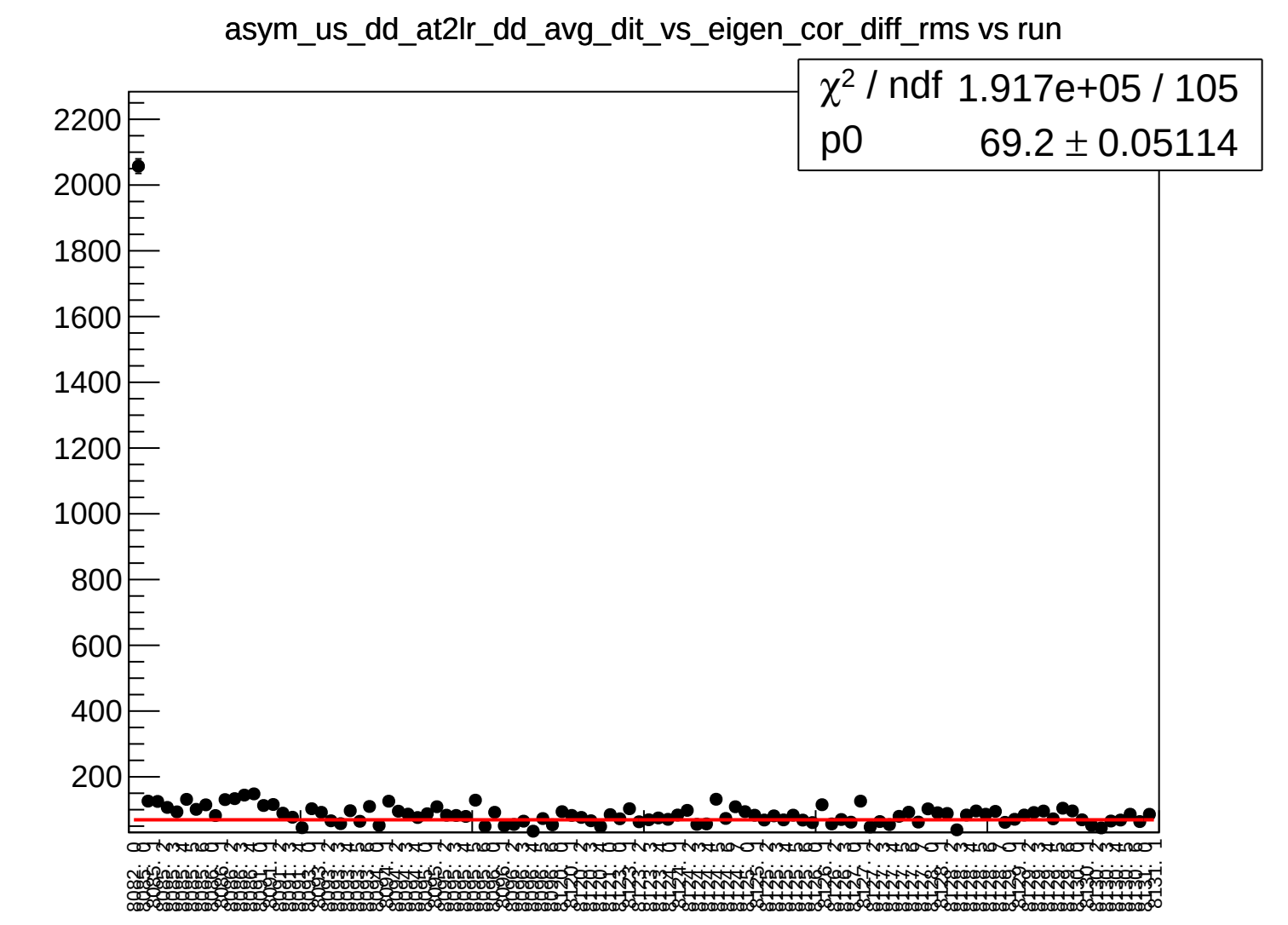

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 101.3 / 105
p0 −0.05292 ± 0.07232
0
−20
−40
−60
−80
pull
Entries 106
Mean 161.3
Std Dev 0
2
1
0
−1
−2

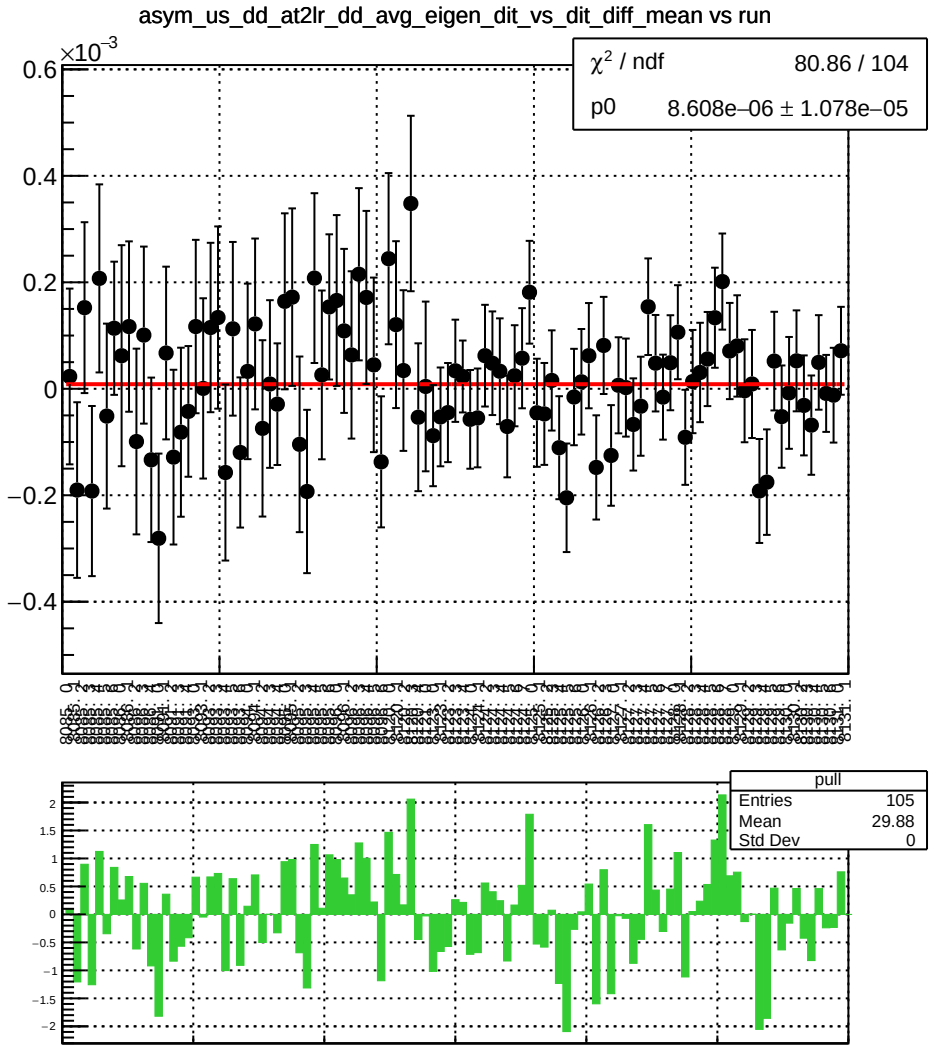

pull1D
Entries 106
Mean −0.01135
Std Dev 0.9774
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

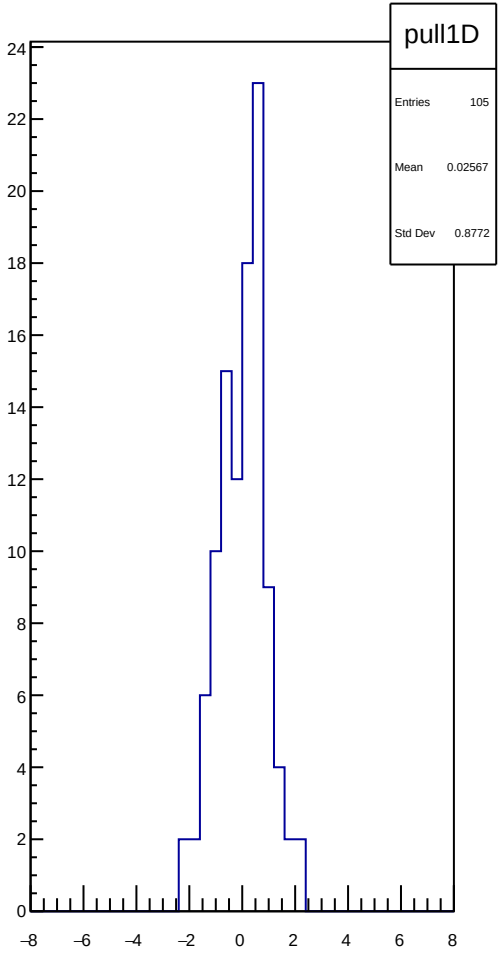

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.917e+05 / 105
p0 69.2 ± 0.05114
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

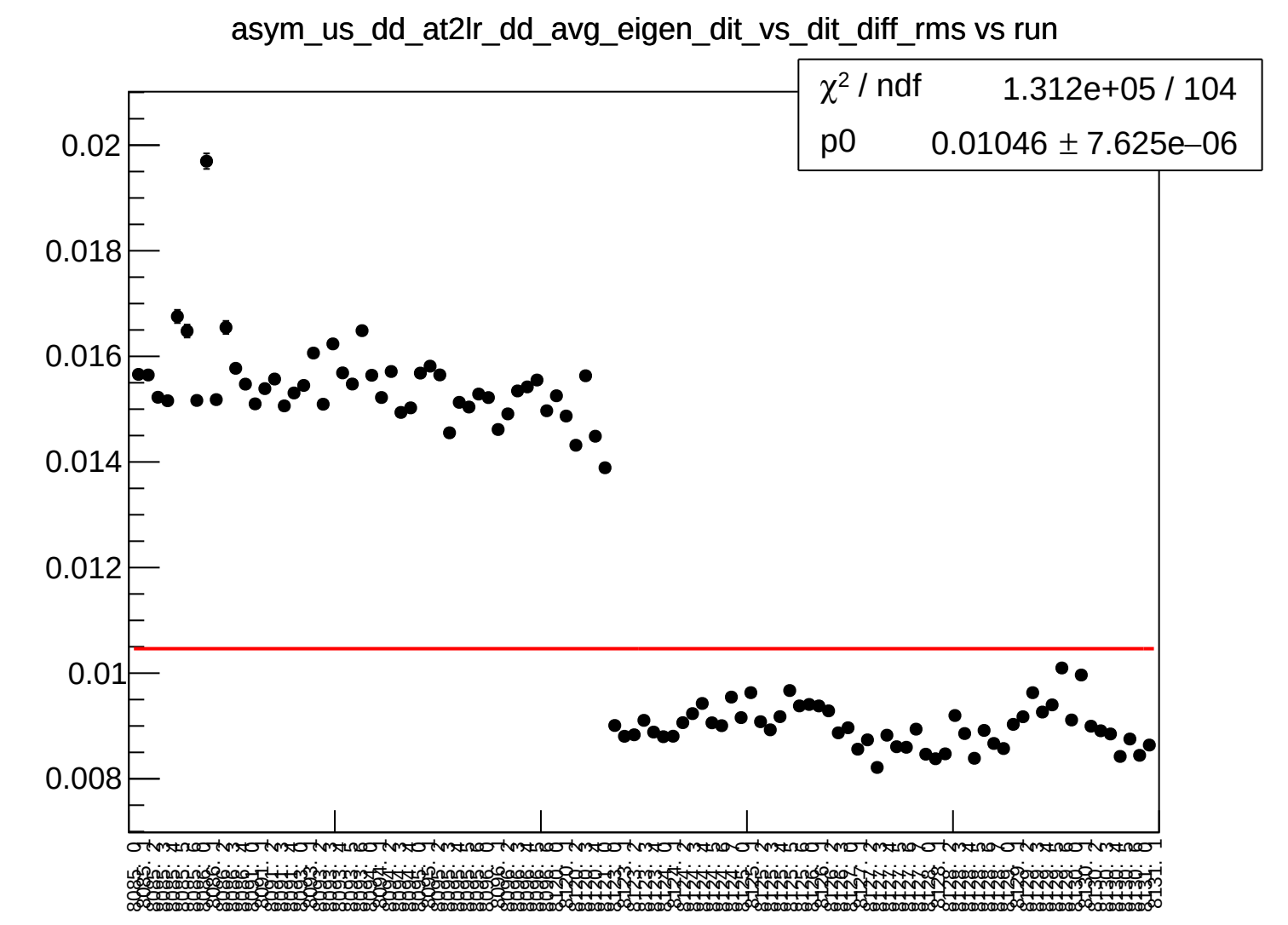

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.3 / 105
p0 −0.05292 ± 0.07232
0
−20
−40
−60
−80
pull
Entries 106
Mean 161.3
Std Dev 0
2
1
0
−1
−2

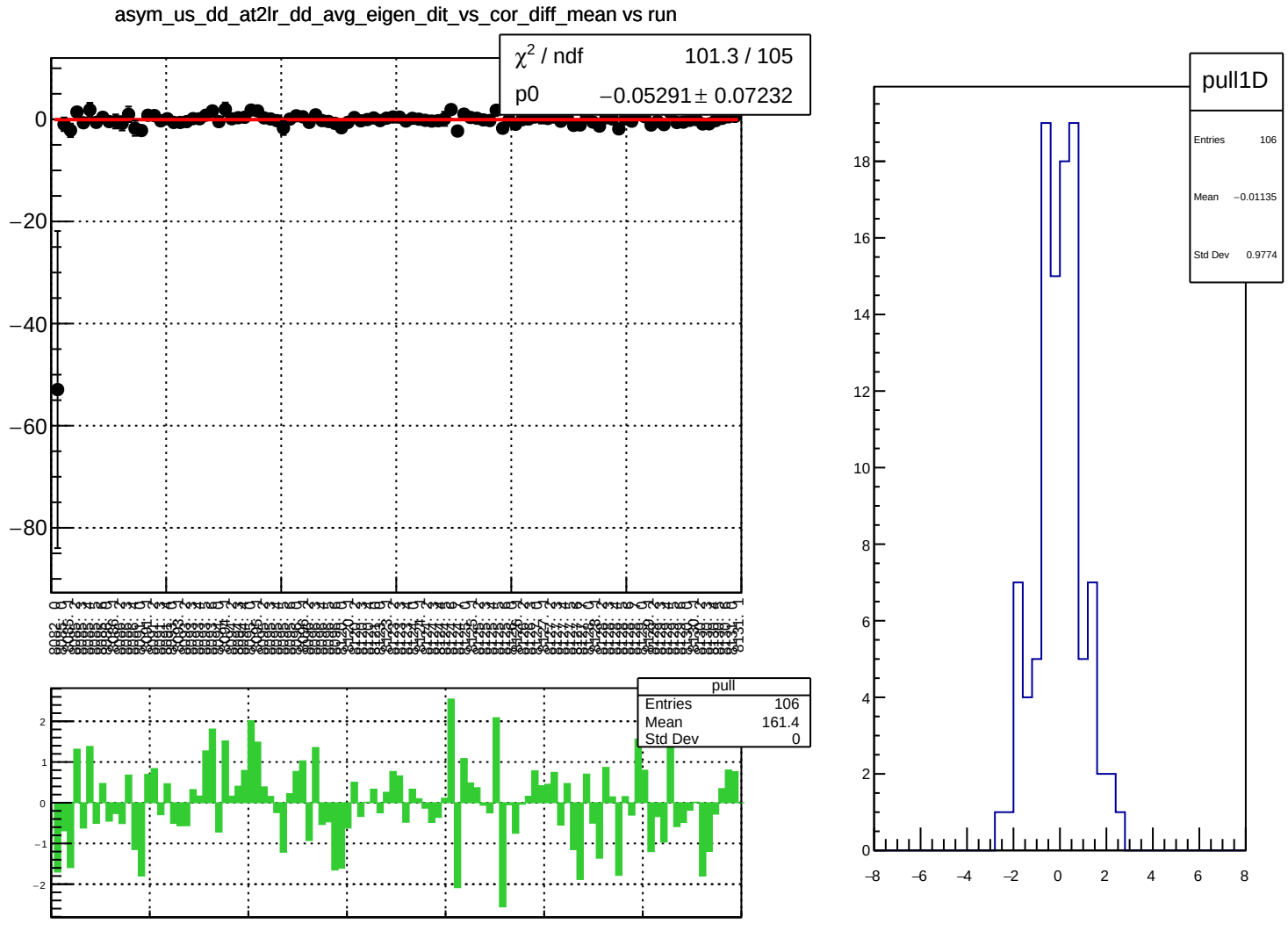

pull1D
Entries 106
Mean −0.01135
Std Dev 0.9774
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

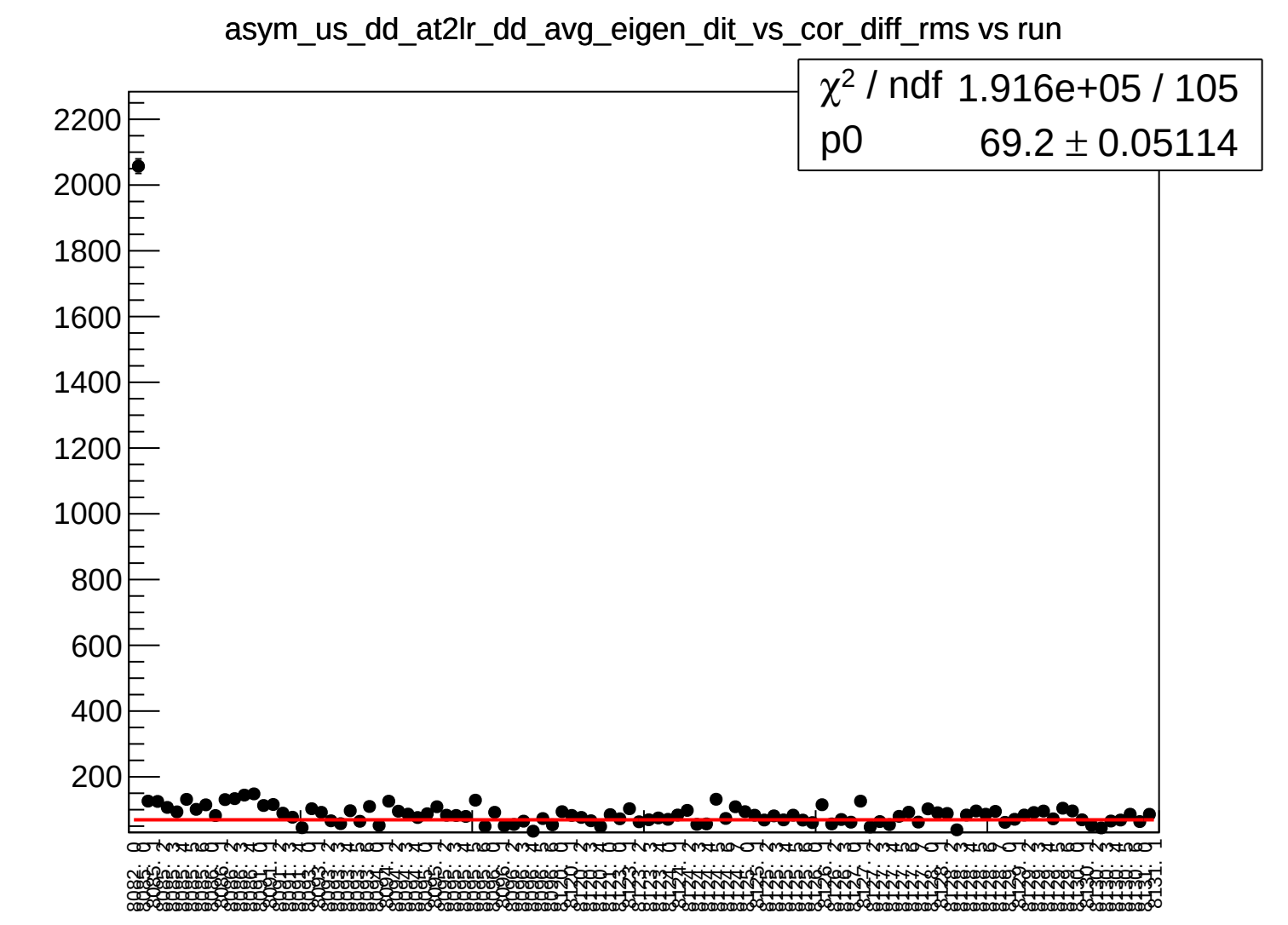

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.917e+05 / 105
p0 69.2 ± 0.05114
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

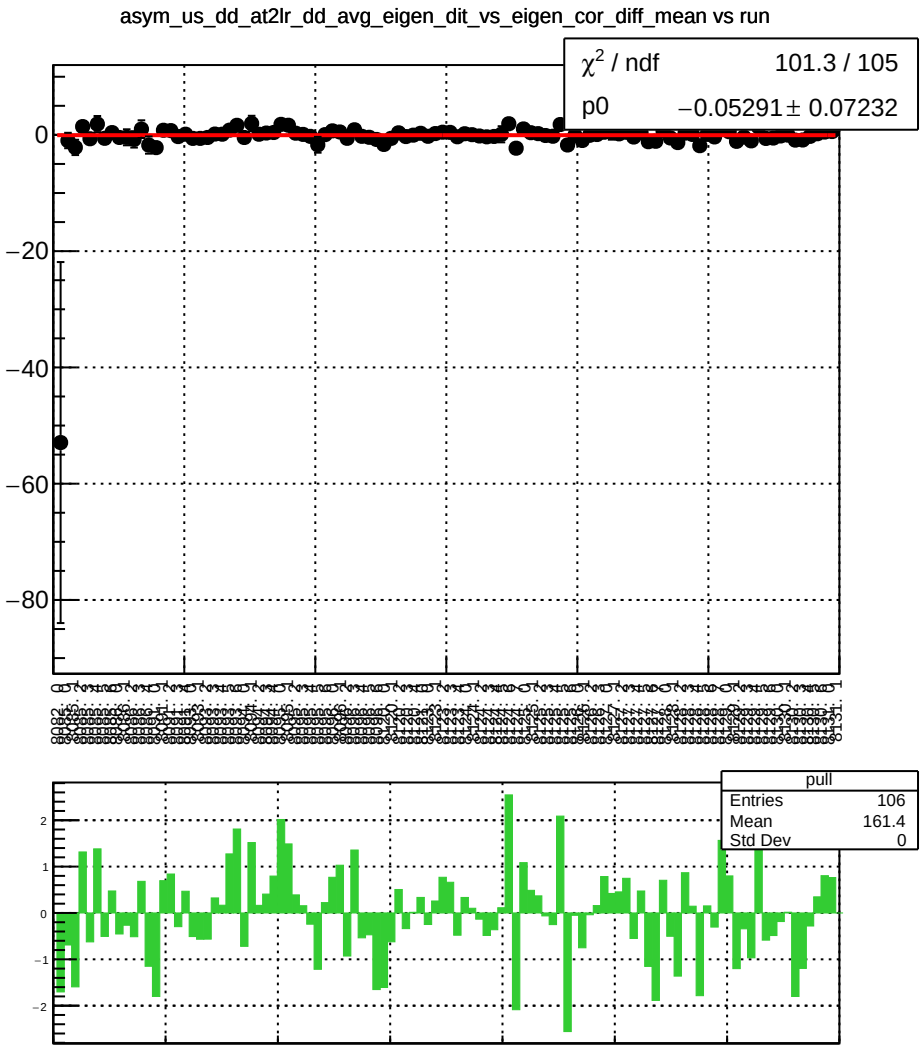

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 80.86 / 104
p0 8.608e−06 ± 1.078e−05
pull
Entries 105
Mean 29.88
Std Dev 0

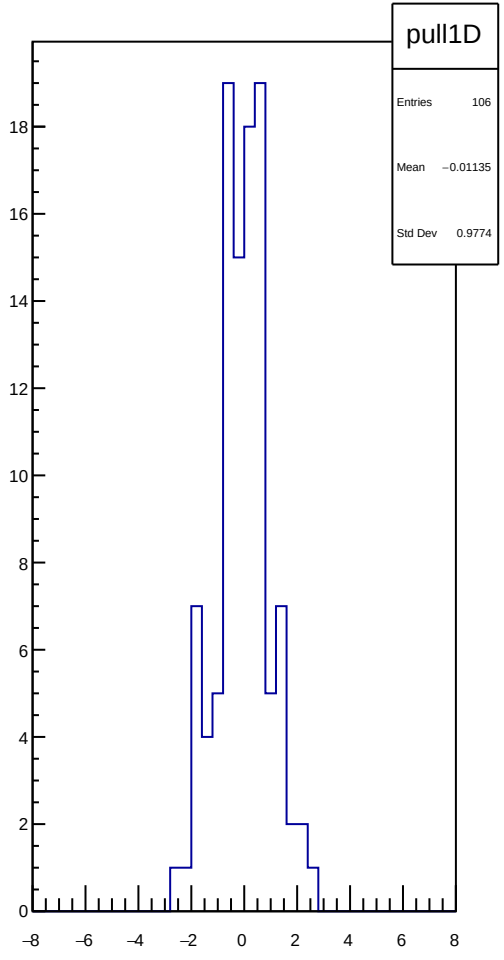

pull1D
Entries 105
Mean 0.02567
Std Dev 0.8772

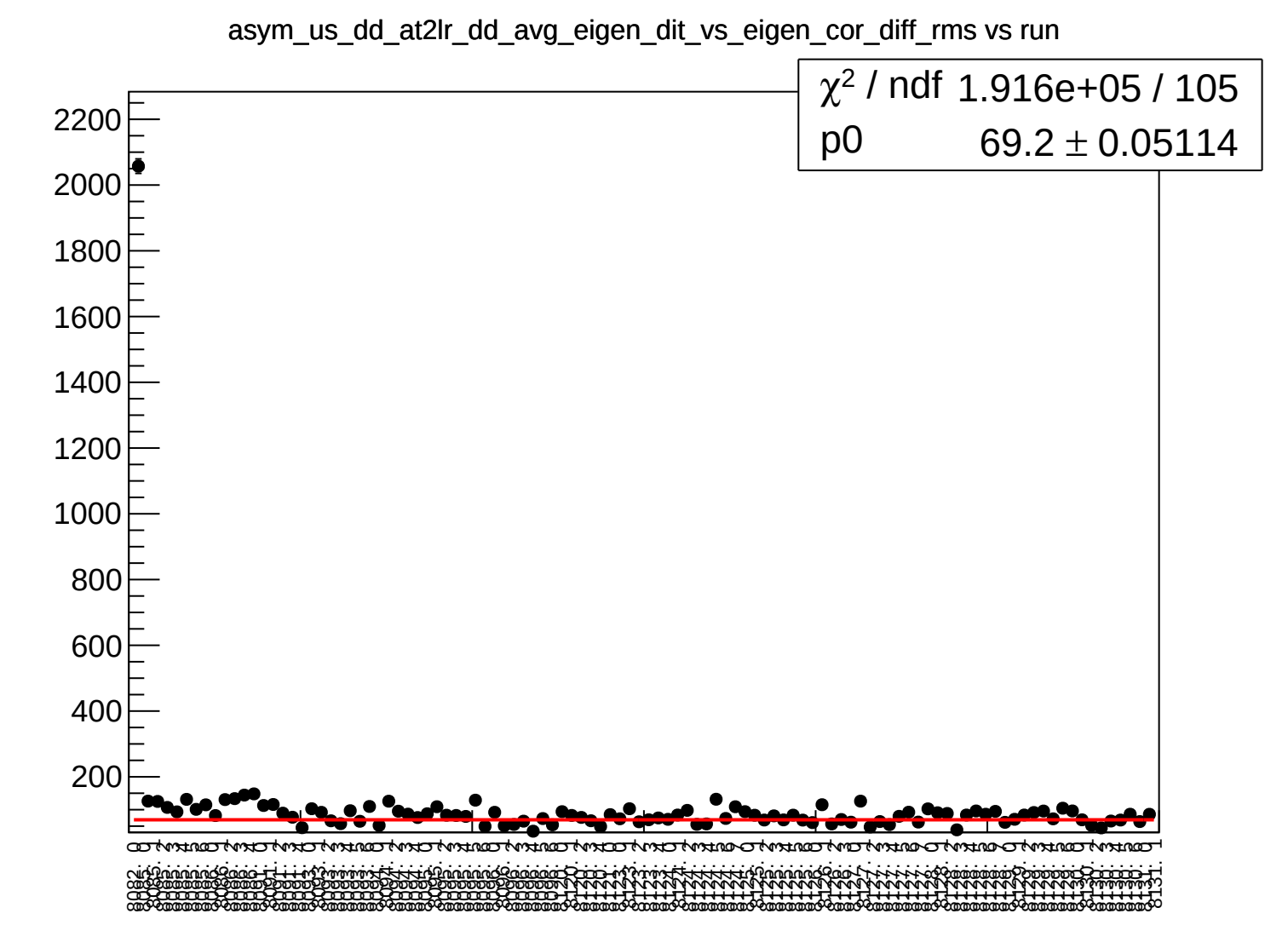

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.312e+05 / 104
p0 0.01046 ± 7.625e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008

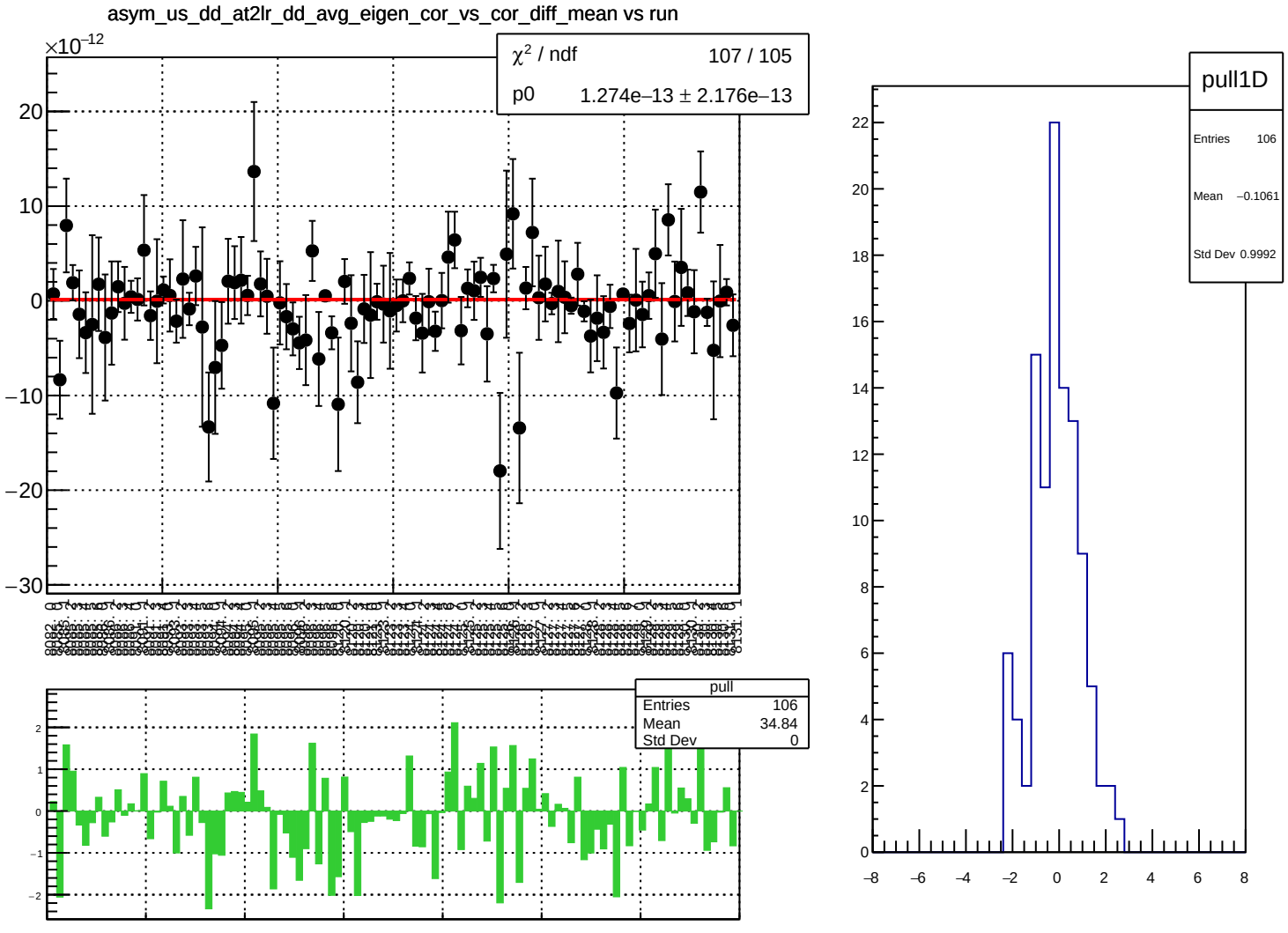

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 101.3 / 105
p0 −0.05291 ± 0.07232
0
−20
−40
−60
−80
pull
Entries 106
Mean 161.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 106
Mean −0.01135
Std Dev 0.9774
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

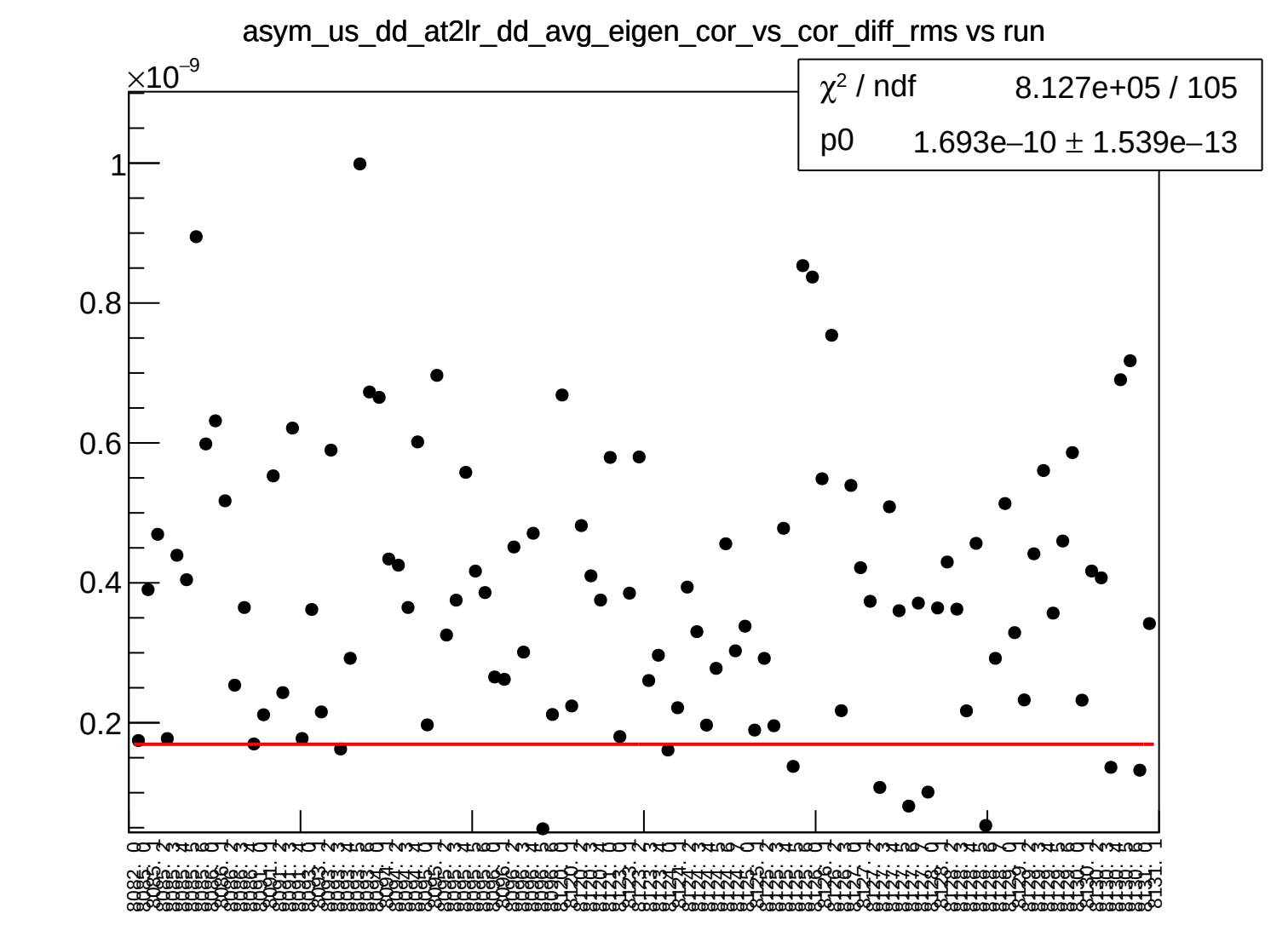

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.916e+05 / 105
p0 69.2 ± 0.05114
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

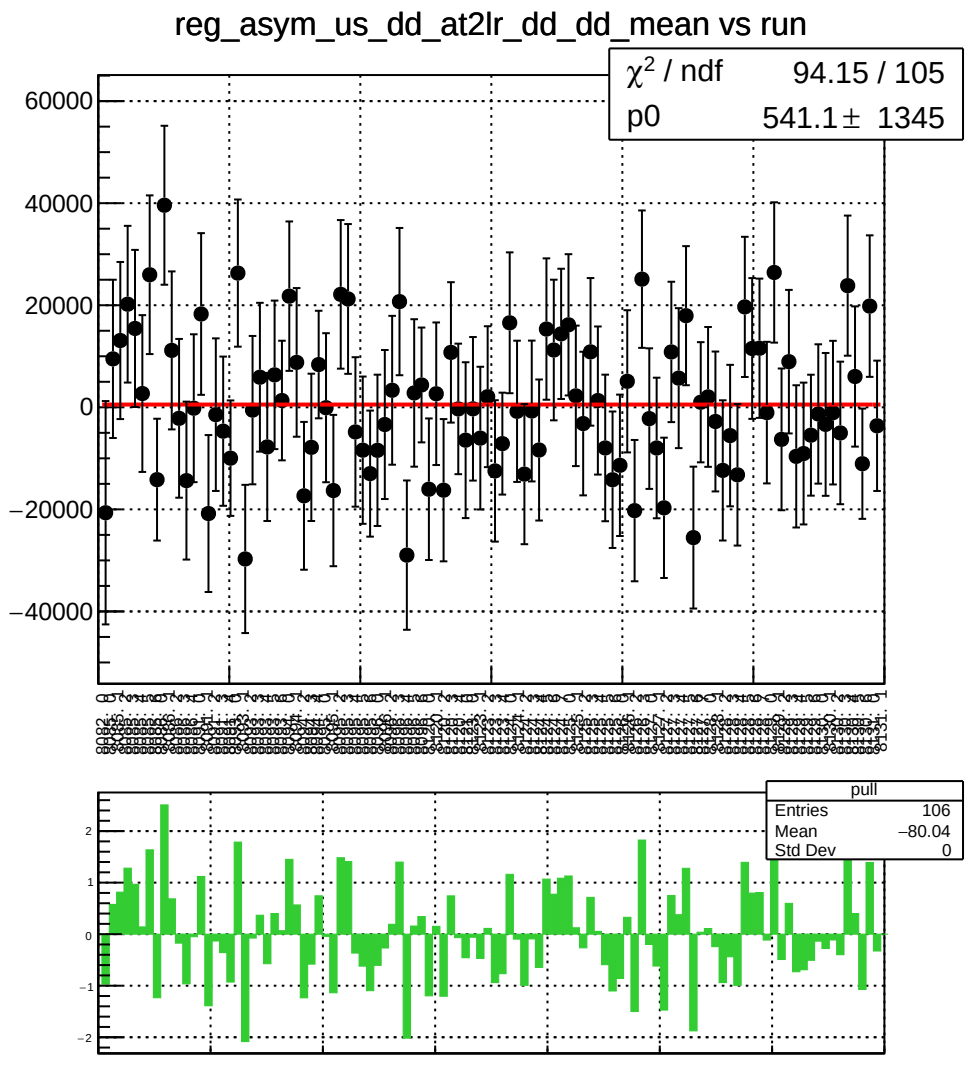

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.3 / 105
p0 −0.05291 ± 0.07232
0
−20
−40
−60
−80
pull
Entries 106
Mean 161.4
Std Dev 0
2
1
0
−1
−2

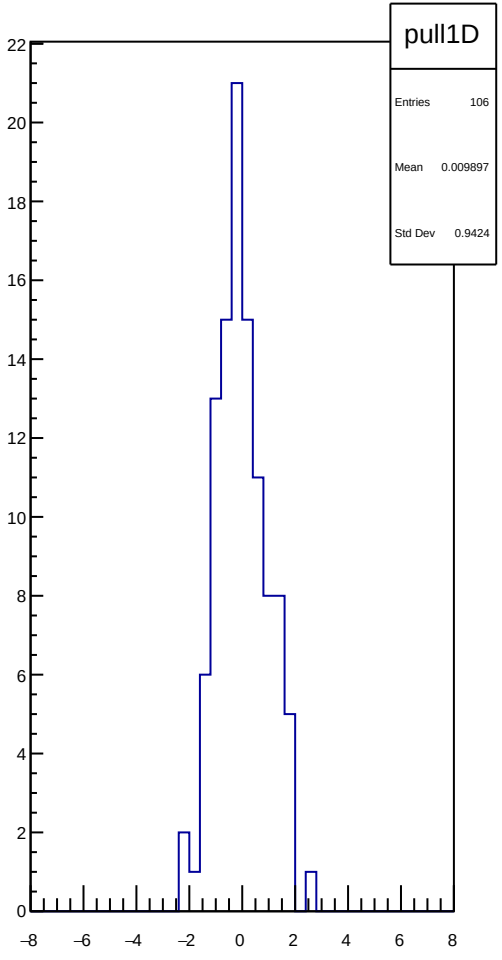

pull1D
Entries 106
Mean −0.01135
Std Dev 0.9774
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

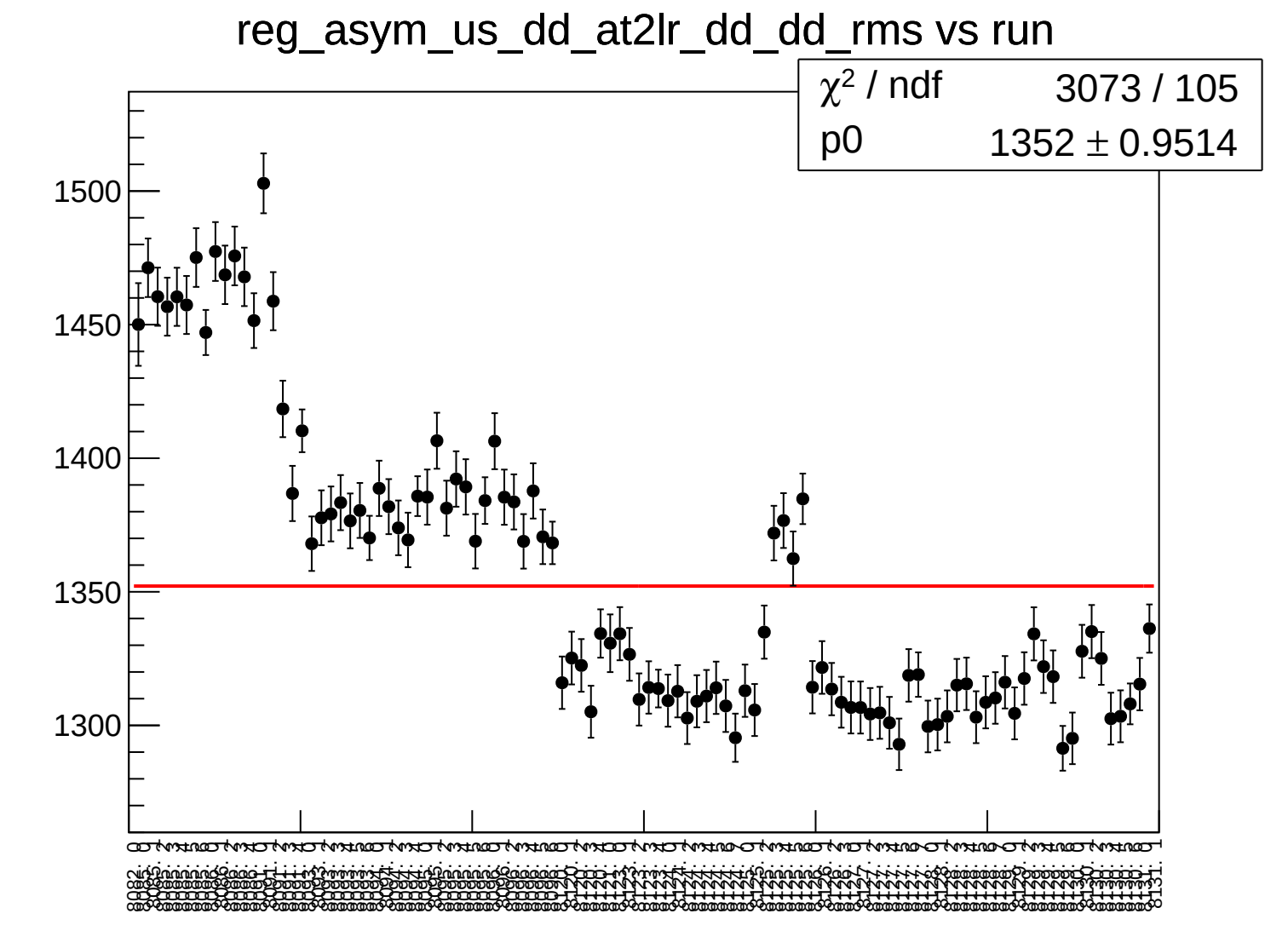

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.916e+05 / 105
p0 69.2 ± 0.05114
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

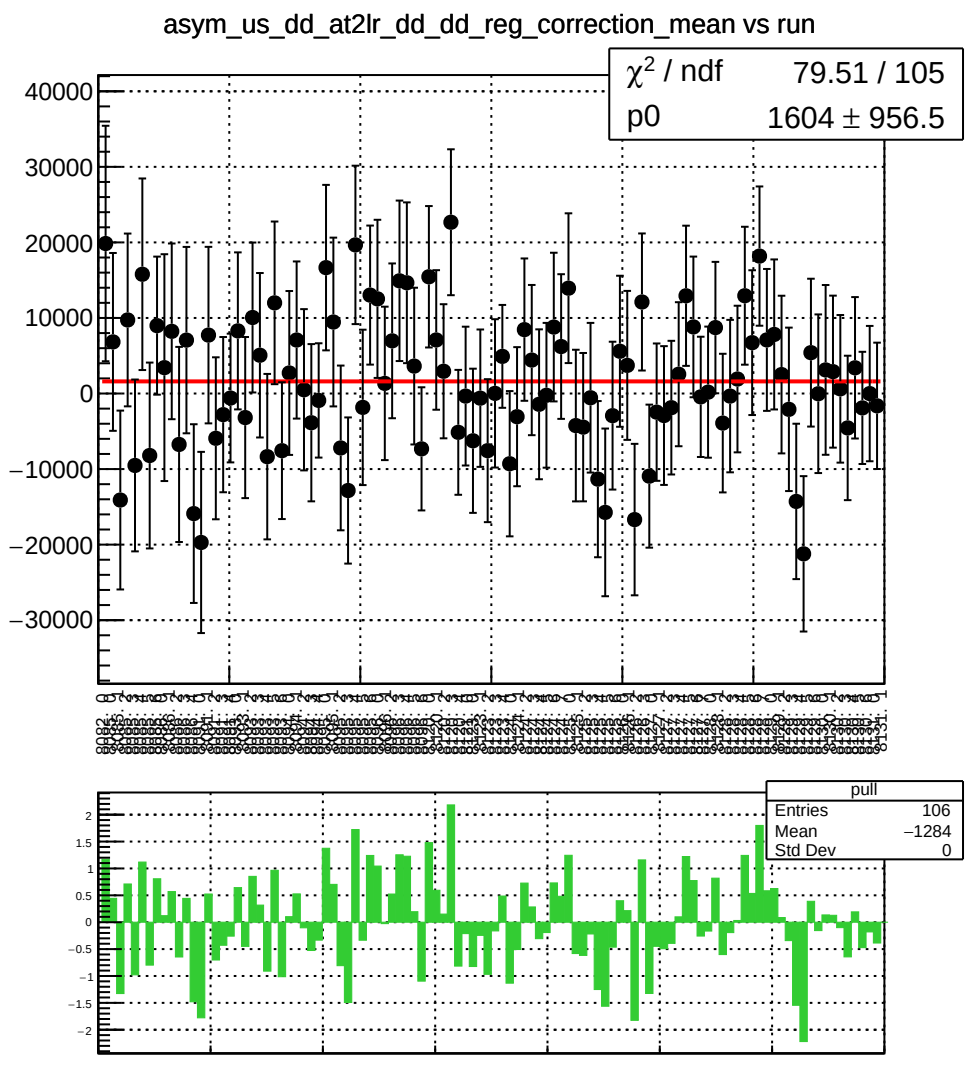

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 107 / 105
p0 1.274e−13 ± 2.176e−13
pull
Entries 106
Mean 34.84
Std Dev 0
pull1D
Entries 106
Mean −0.1061
Std Dev 0.9992

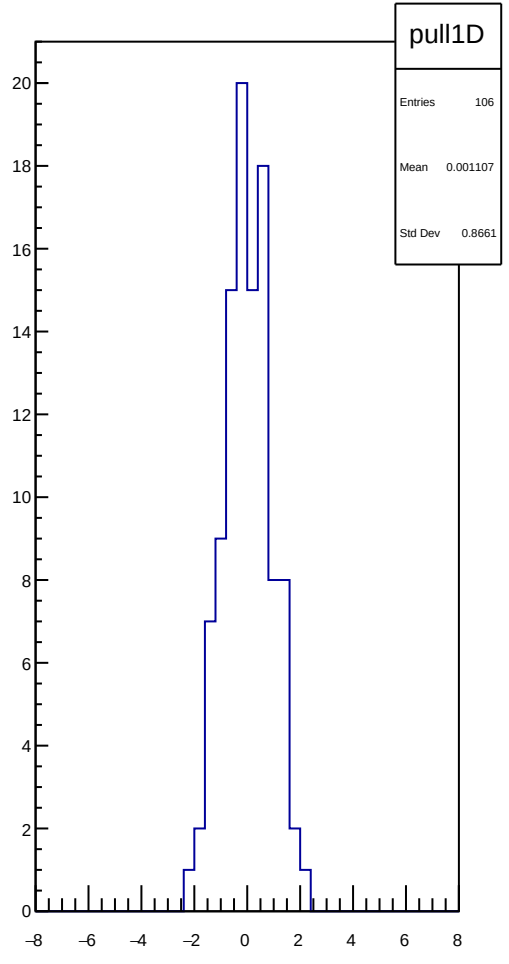

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.127e+05 / 105
p0 1.693e−10 ± 1.539e−13
1
0.8
0.6
0.4
0.2

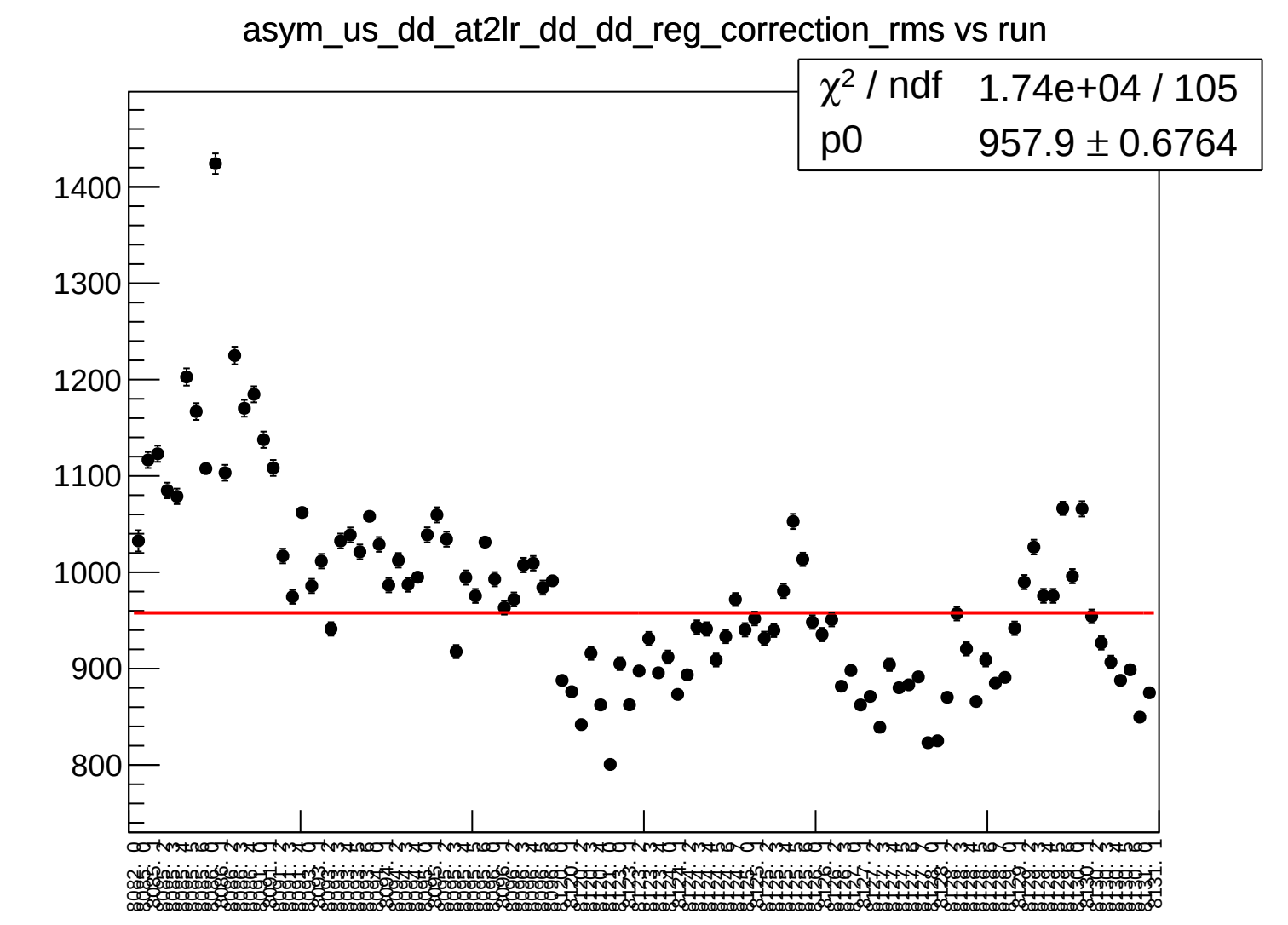

reg_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 94.15 / 105
p0 541.1 ± 1345
60000
40000
20000
0
−20000
−40000
pull
Entries 106
Mean −80.04
Std Dev 0
2
1
0
−1
−2

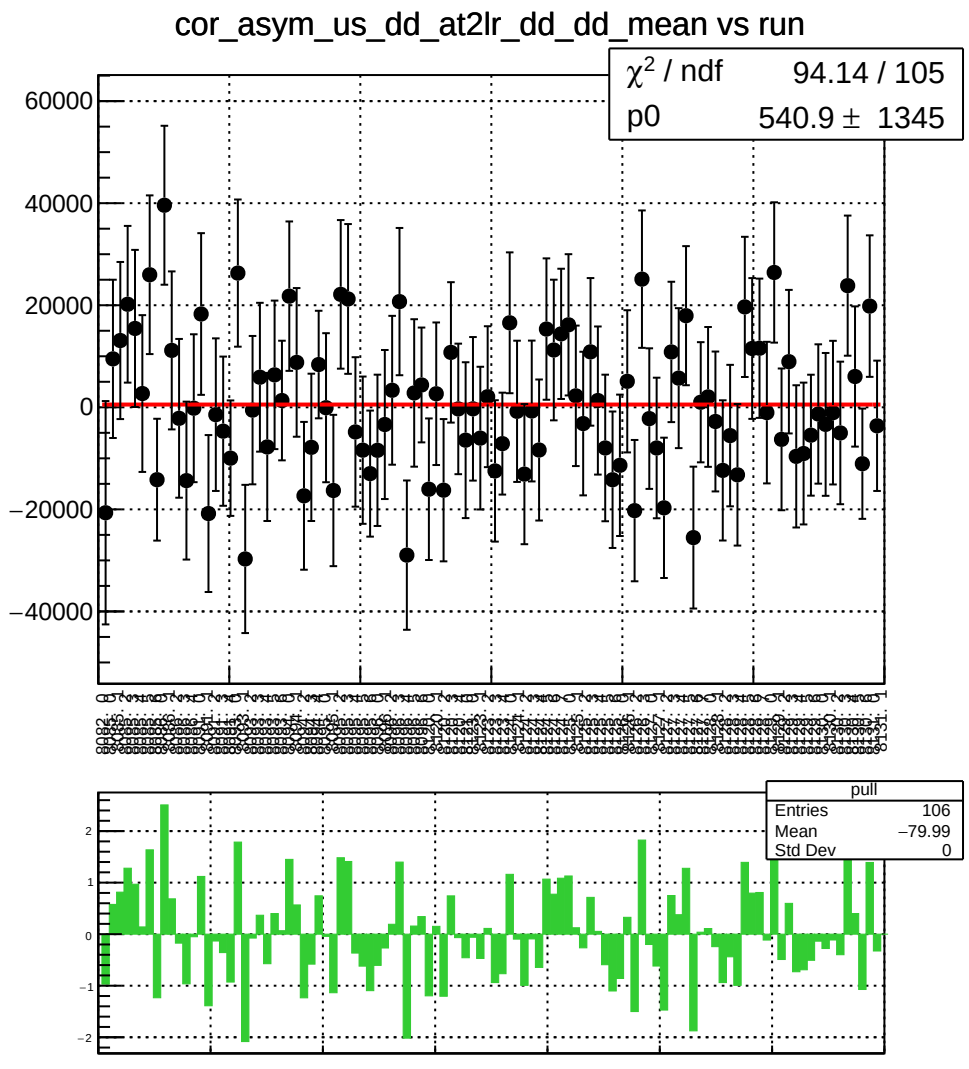

pull1D
Entries 106
Mean 0.009897
Std Dev 0.9424
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

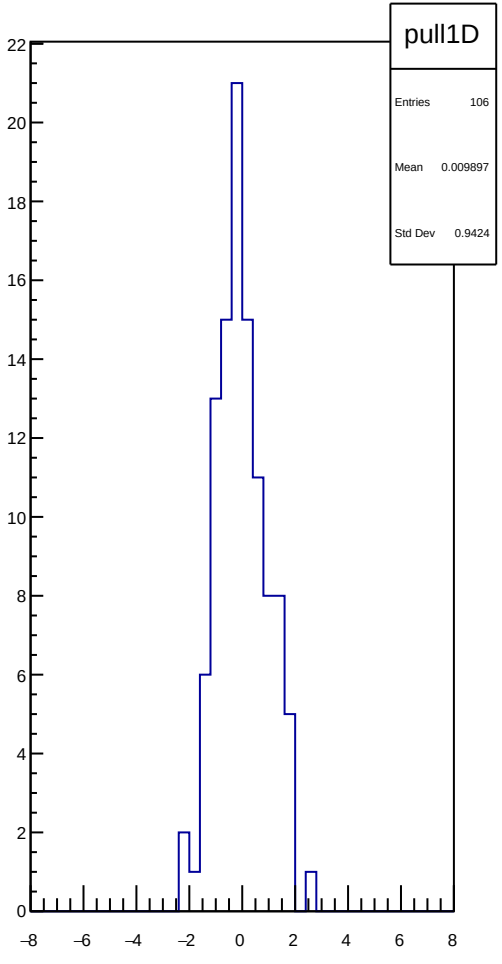

reg_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 3073 / 105
p0 1352 ± 0.9514
1500
1450
1400
1350
1300

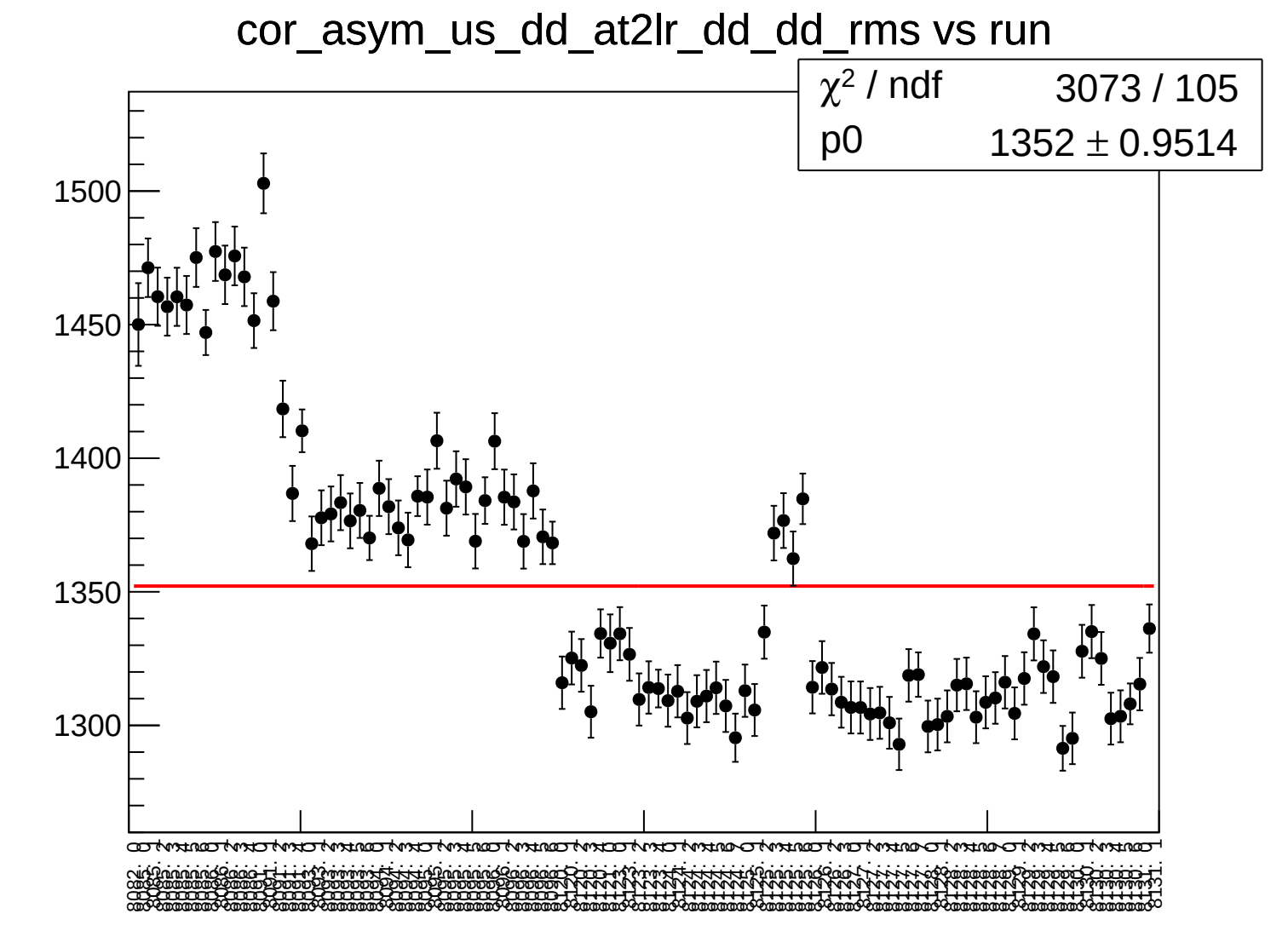

asym_us_dd_at2lr_dd_dd_reg_correction_mean vs run
χ² / ndf 79.51 / 105
p0 1604 ± 956.5
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 106
Mean −1284
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

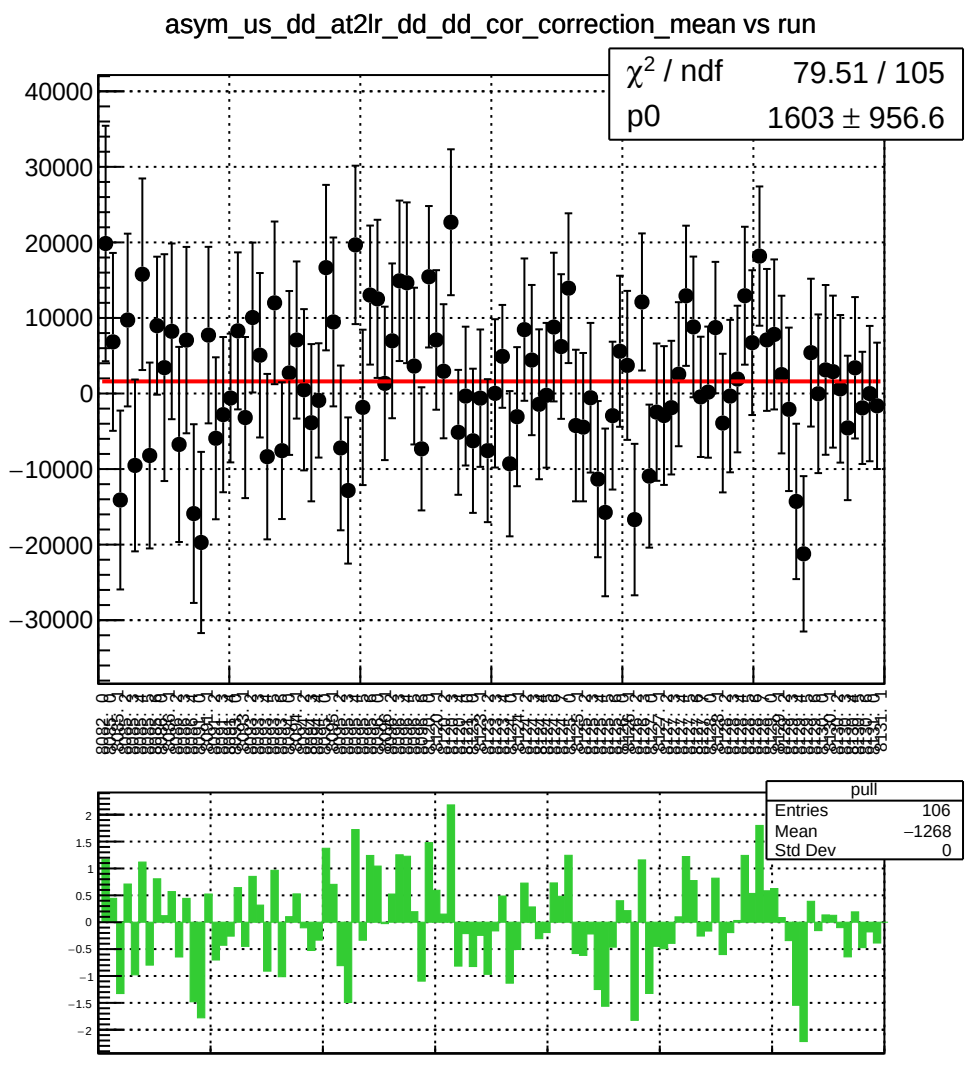

pull1D
Entries 106
Mean 0.001107
Std Dev 0.8661
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

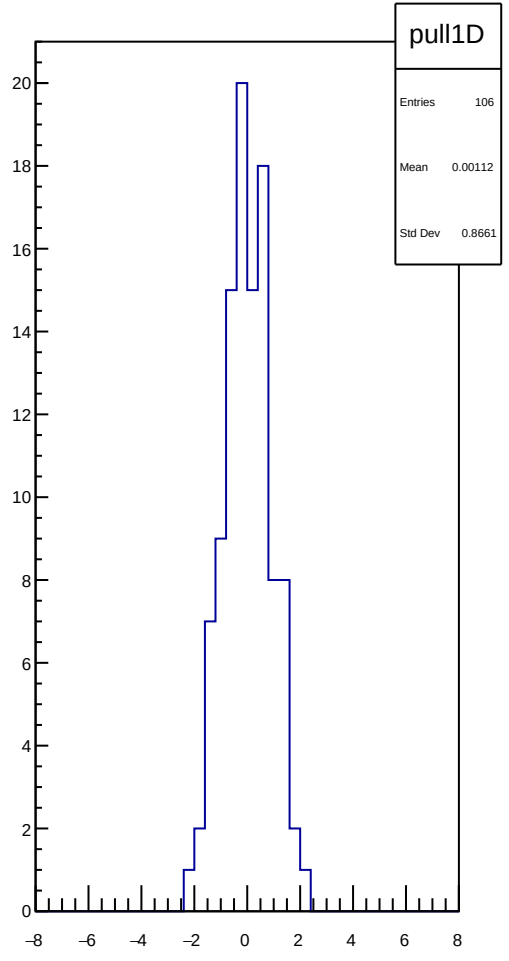

asym_us_dd_at2lr_dd_dd_reg_correction_rms vs run
χ² / ndf 1.74e+04 / 105
p0 957.9 ± 0.6764
1400
1300
1200
1100
1000
900
800

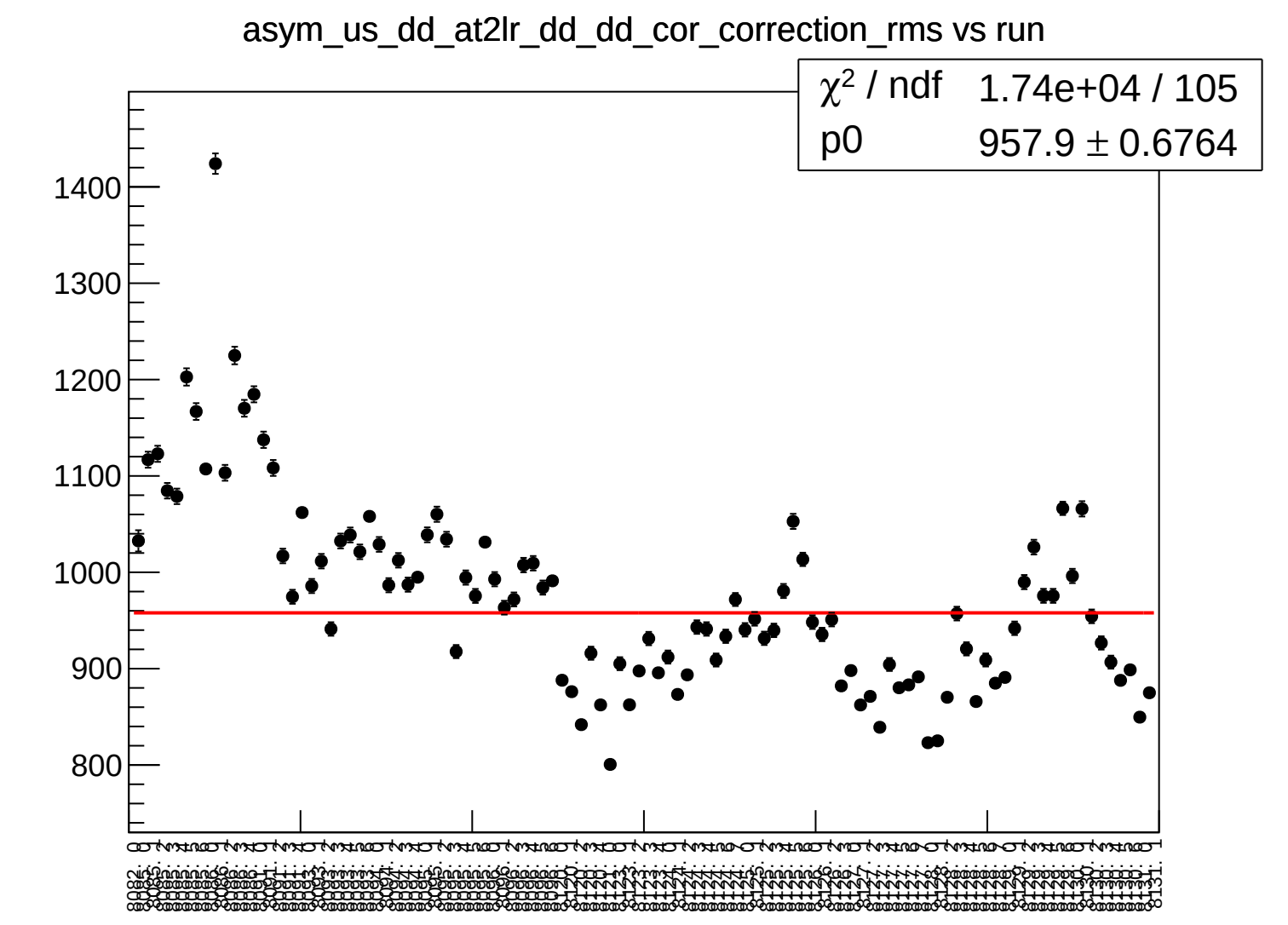

cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 94.14 / 105
p0 540.9 ± 1345
60000
40000
20000
0
−20000
−40000
pull
Entries 106
Mean −79.99
Std Dev 0
2
1
0
−1
−2

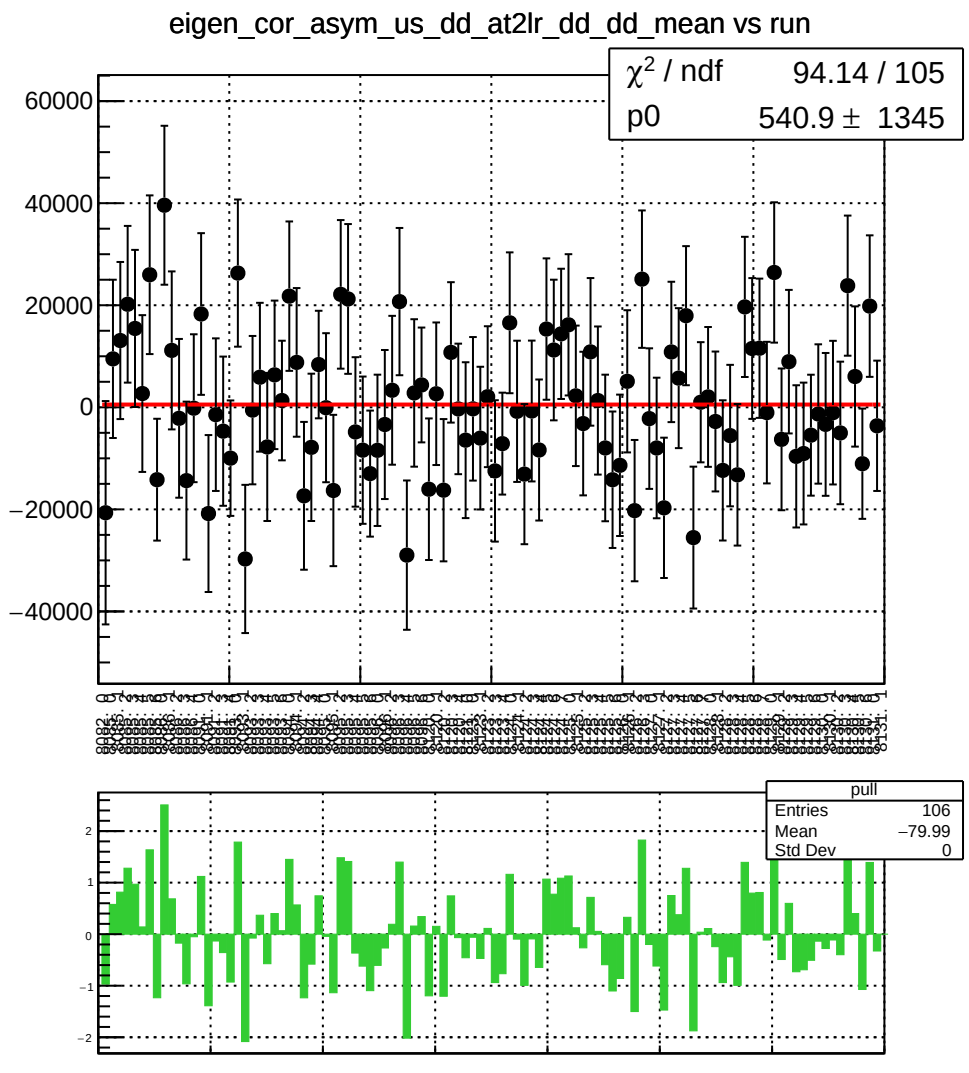

pull1D
Entries 106
Mean 0.009897
Std Dev 0.9424
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

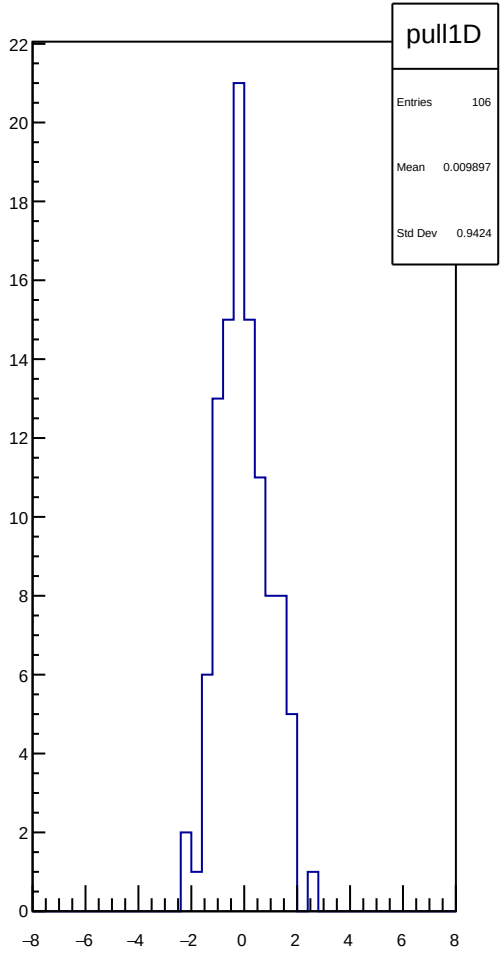

cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 3073 / 105
p0 1352 ± 0.9514
1500
1450
1400
1350
1300

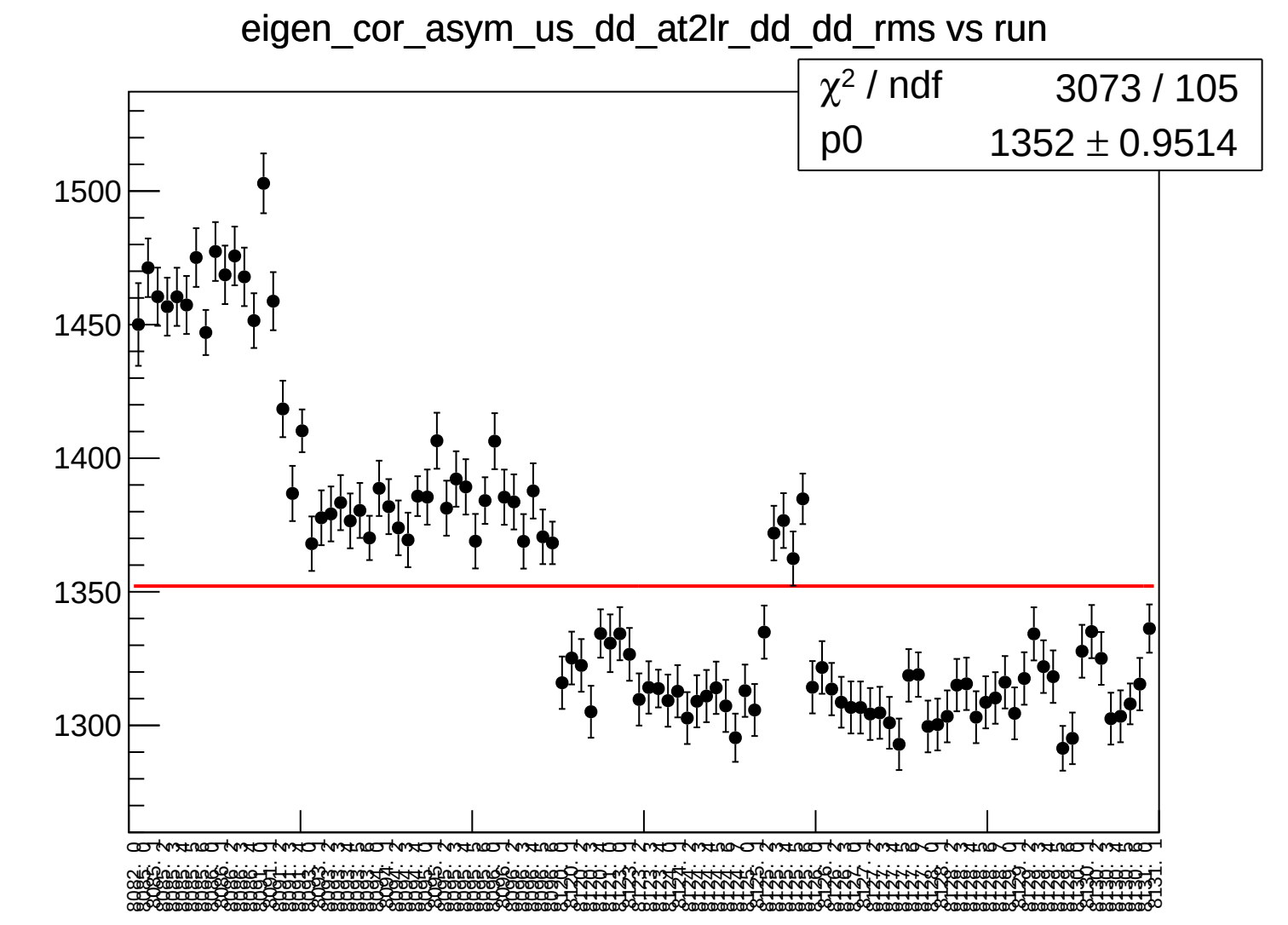

asym_us_dd_at2lr_dd_dd_cor_correction_mean vs run
χ² / ndf 79.51 / 105
p0 1603 ± 956.6
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 106
Mean −1268
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

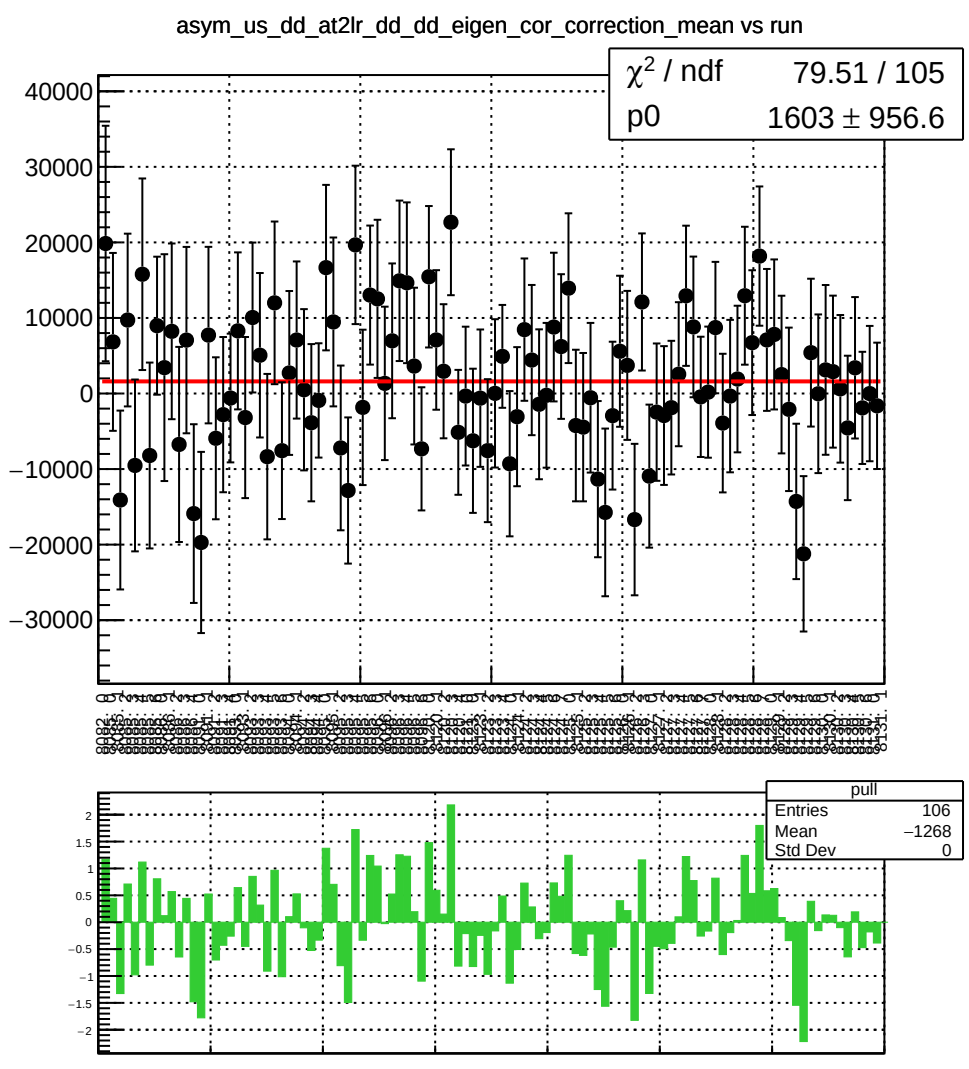

pull1D
Entries 106
Mean 0.00112
Std Dev 0.8661
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

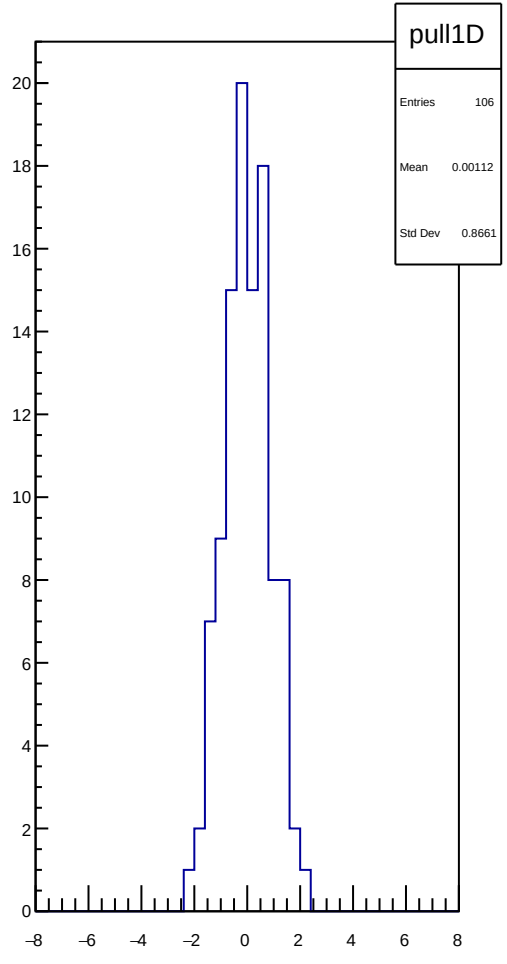

asym_us_dd_at2lr_dd_dd_cor_correction_rms vs run
χ² / ndf 1.74e+04 / 105
p0 957.9 ± 0.6764
1400
1300
1200
1100
1000
900
800

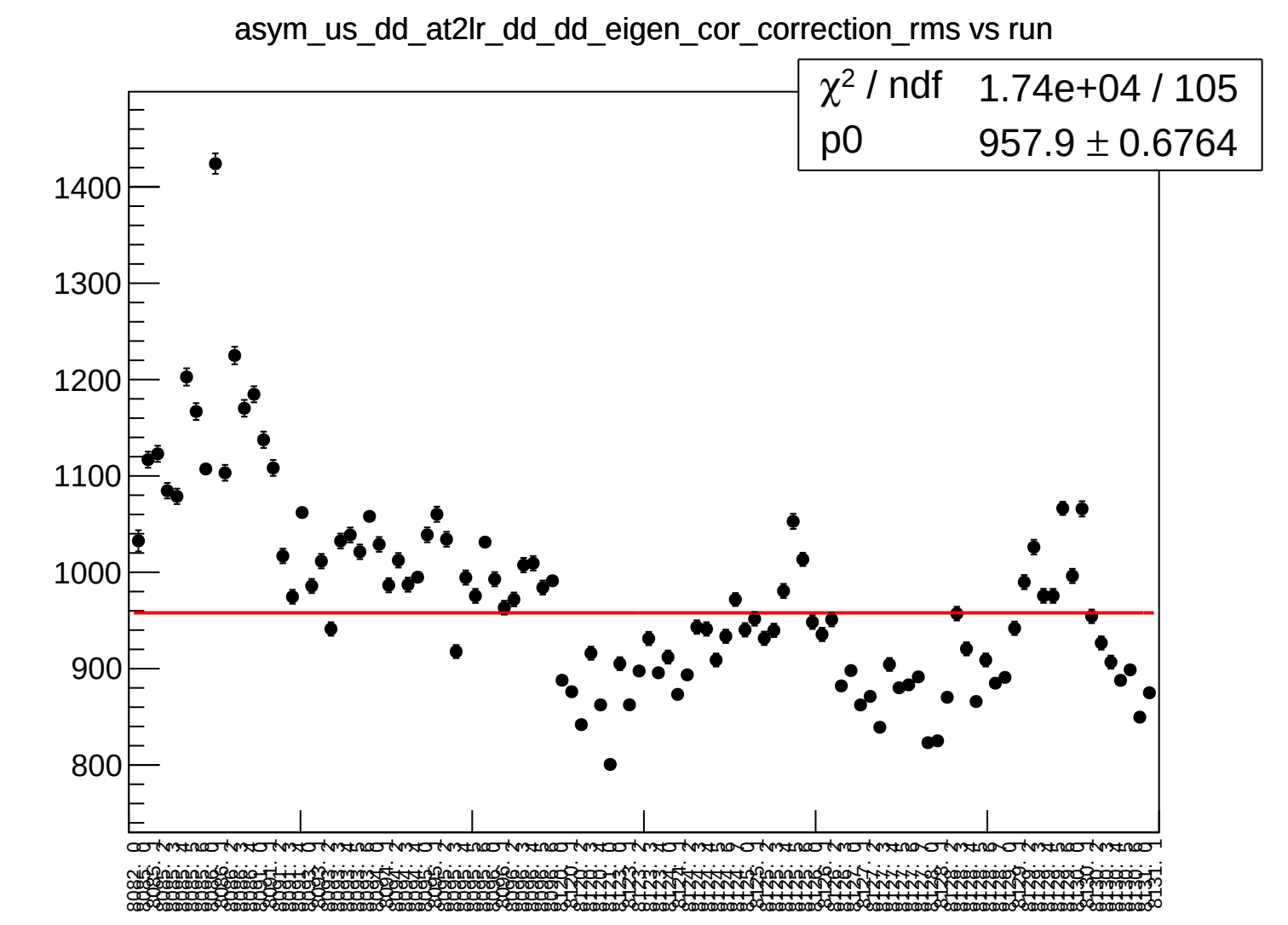

eigen_cor_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 94.14 / 105
p0 540.9 ± 1345
60000
40000
20000
0
−20000
−40000
pull
Entries 106
Mean −79.99
Std Dev 0
2
1
0
−1
−2

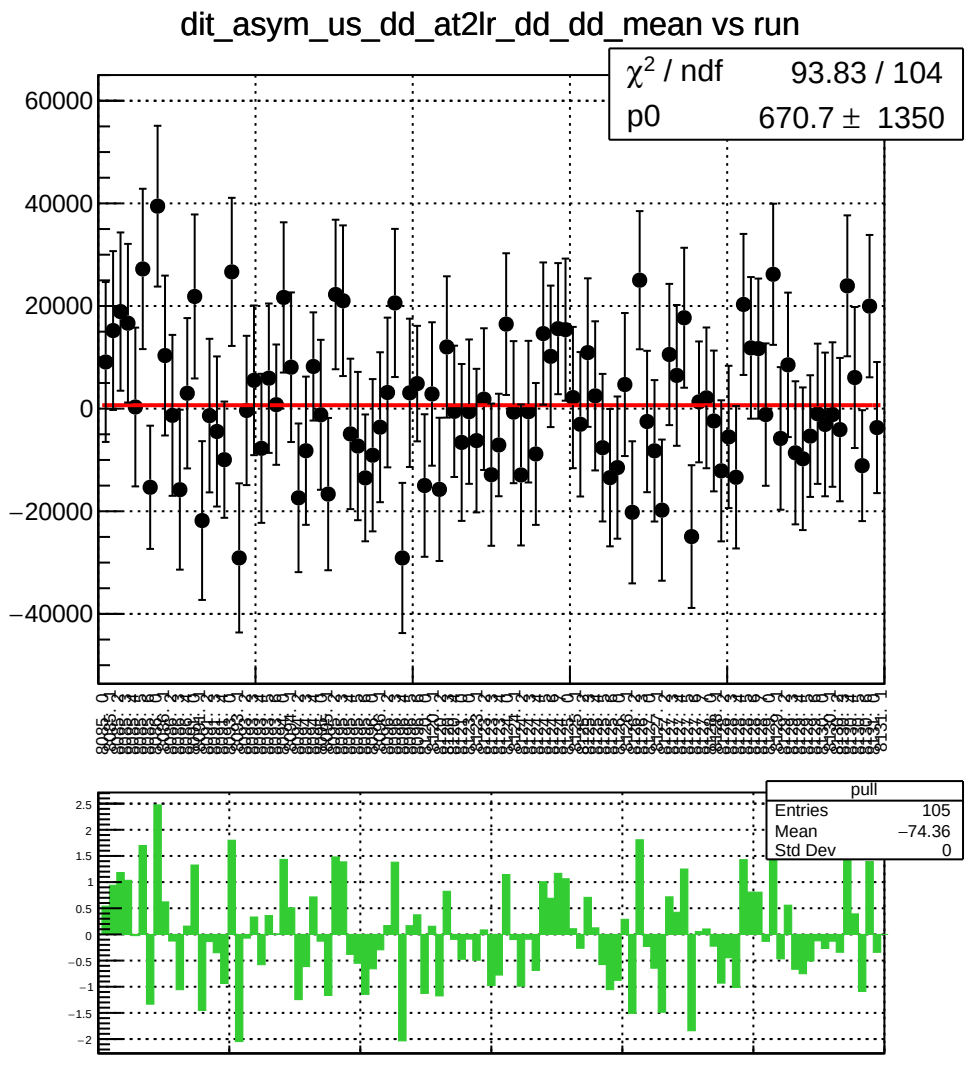

pull1D
Entries 106
Mean 0.009897
Std Dev 0.9424
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

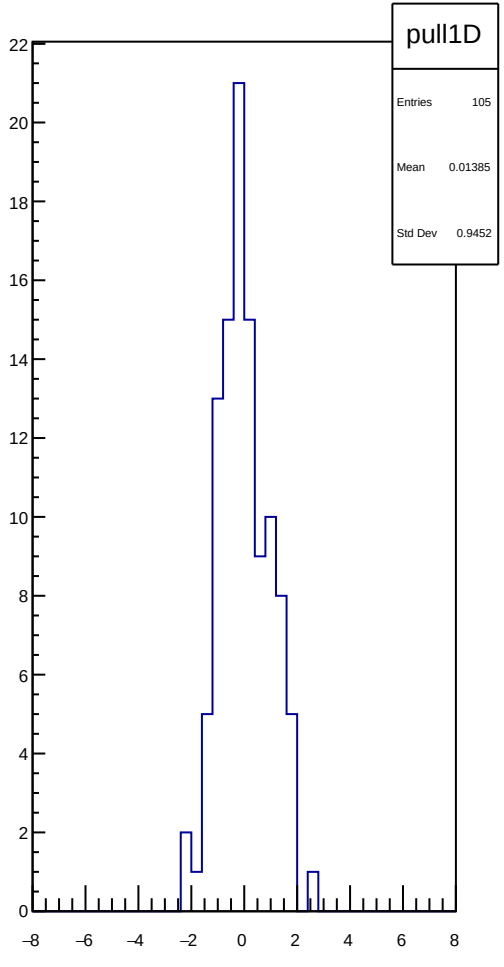

eigen_cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 3073 / 105
p0 1352 ± 0.9514
1500
1450
1400
1350
1300

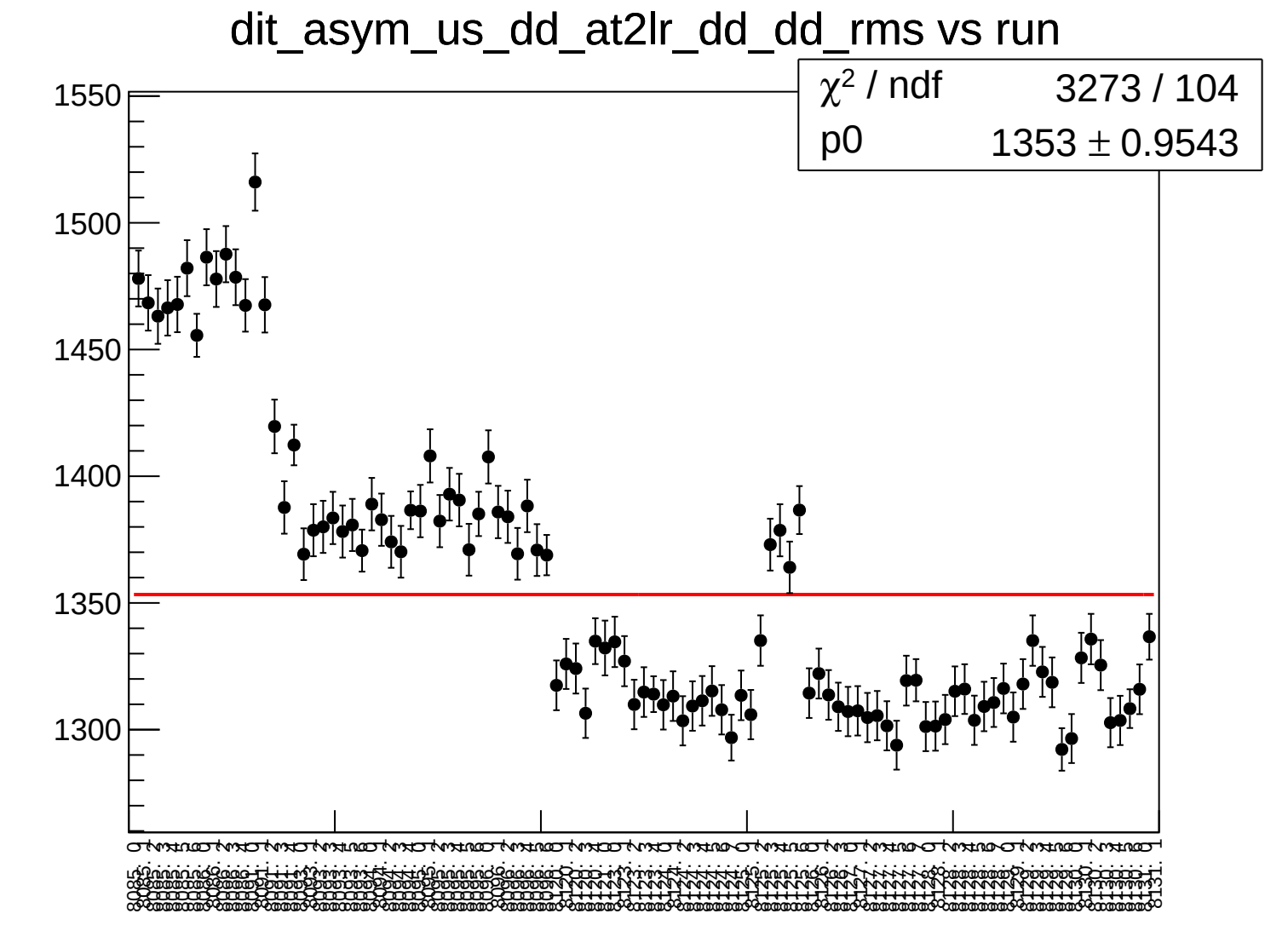

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 79.51 / 105
p0 1603 ± 956.6
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 106
Mean −1268
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

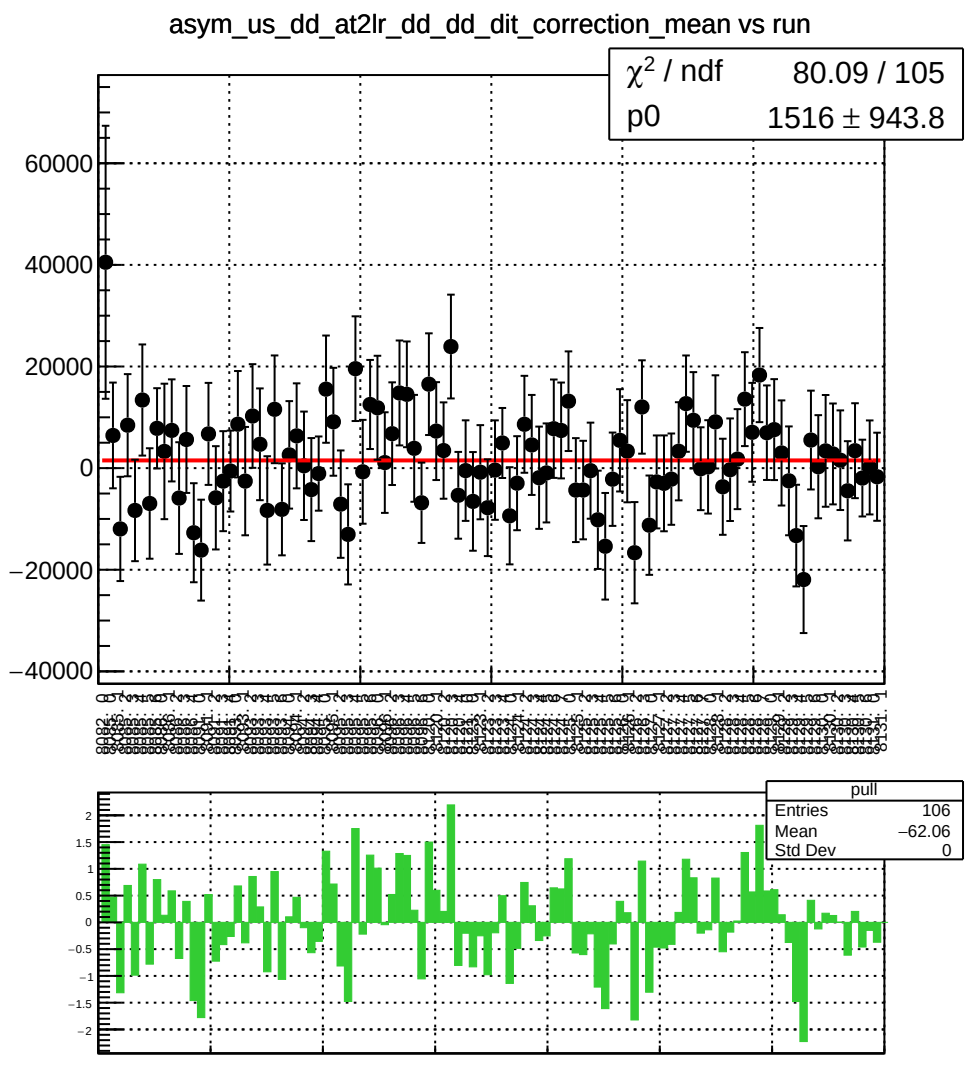

pull1D
Entries 106
Mean 0.00112
Std Dev 0.8661
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

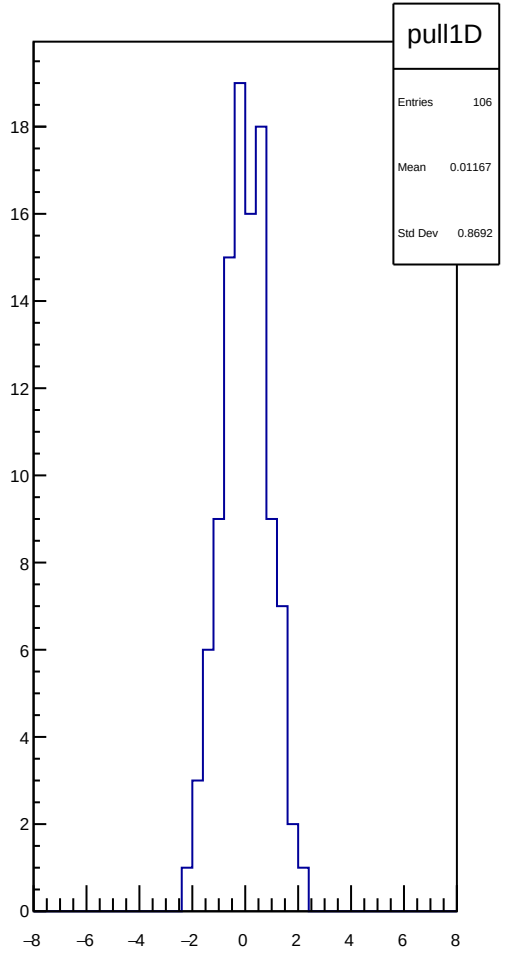

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.74e+04 / 105
p0 957.9 ± 0.6764
1400
1300
1200
1100
1000
900
800

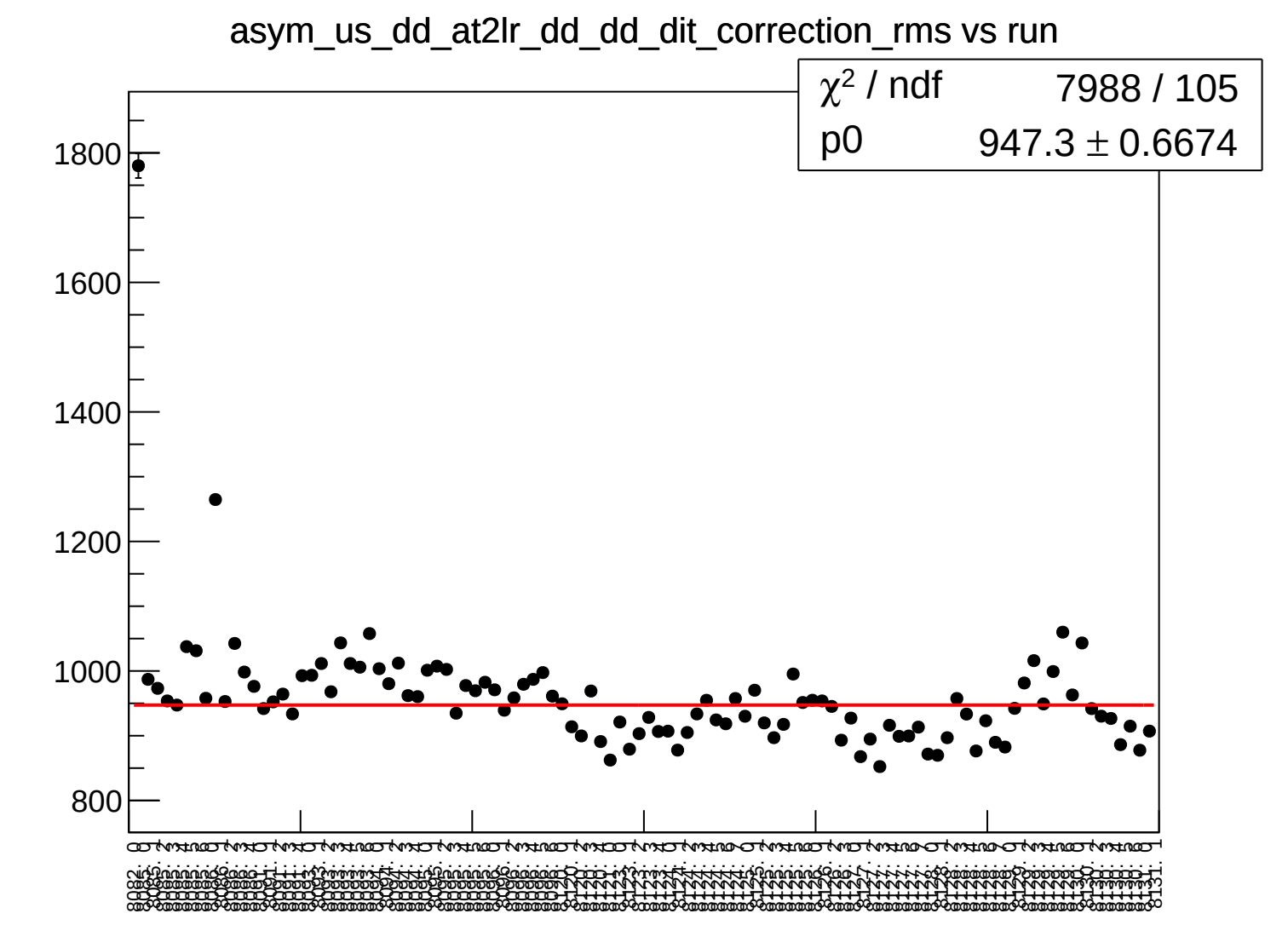

dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 93.83 / 104
p0 670.7 ± 1350
60000
40000
20000
0
−20000
−40000
pull
Entries 105
Mean −74.36
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

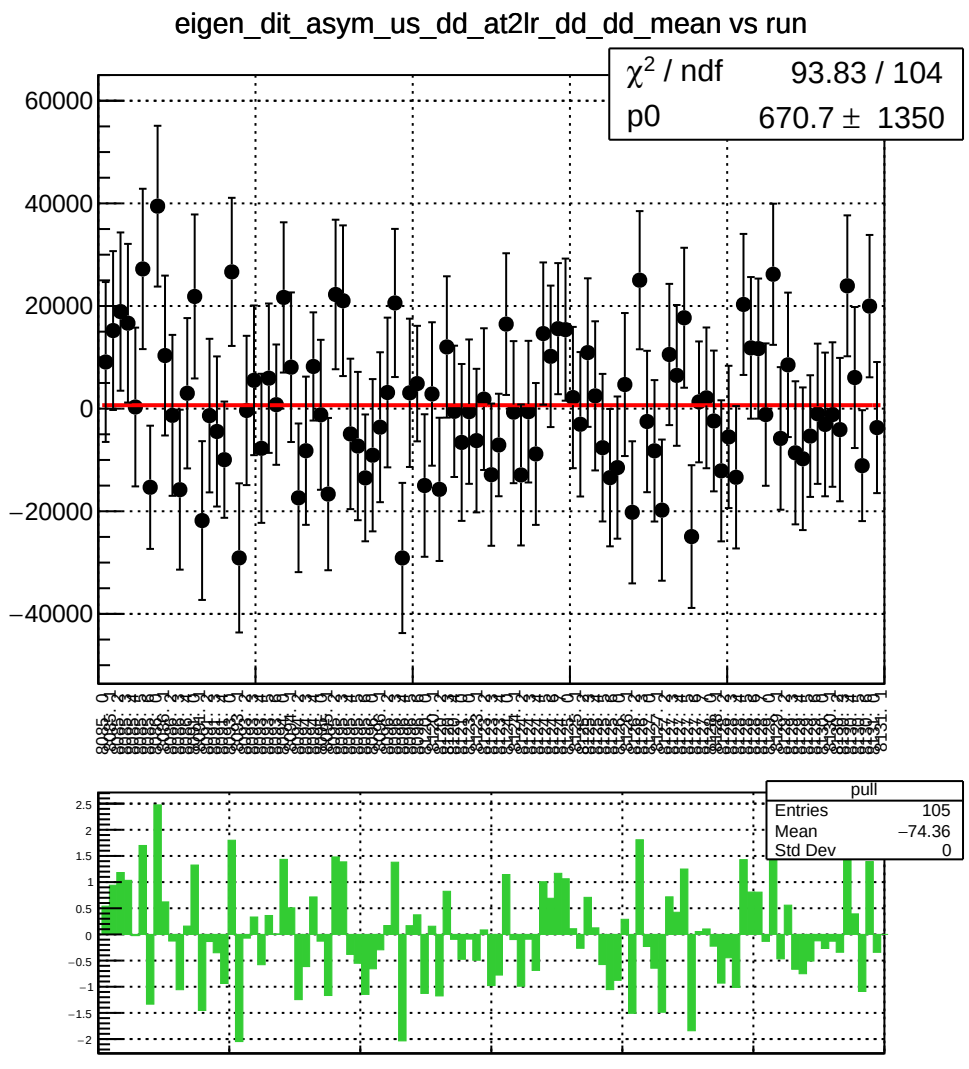

pull1D
Entries 105
Mean 0.01385
Std Dev 0.9452
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

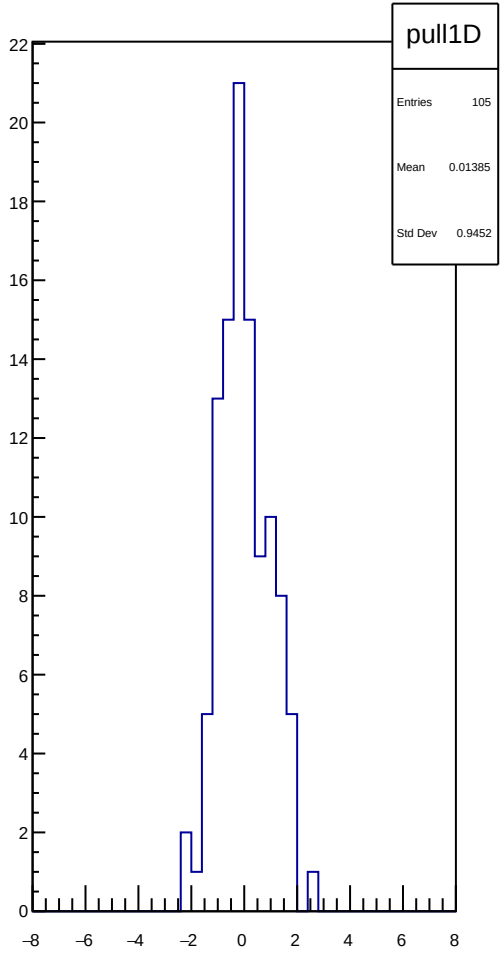

dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 3273 / 104
p0 1353 ± 0.9543
1550
1500
1450
1400
1350
1300

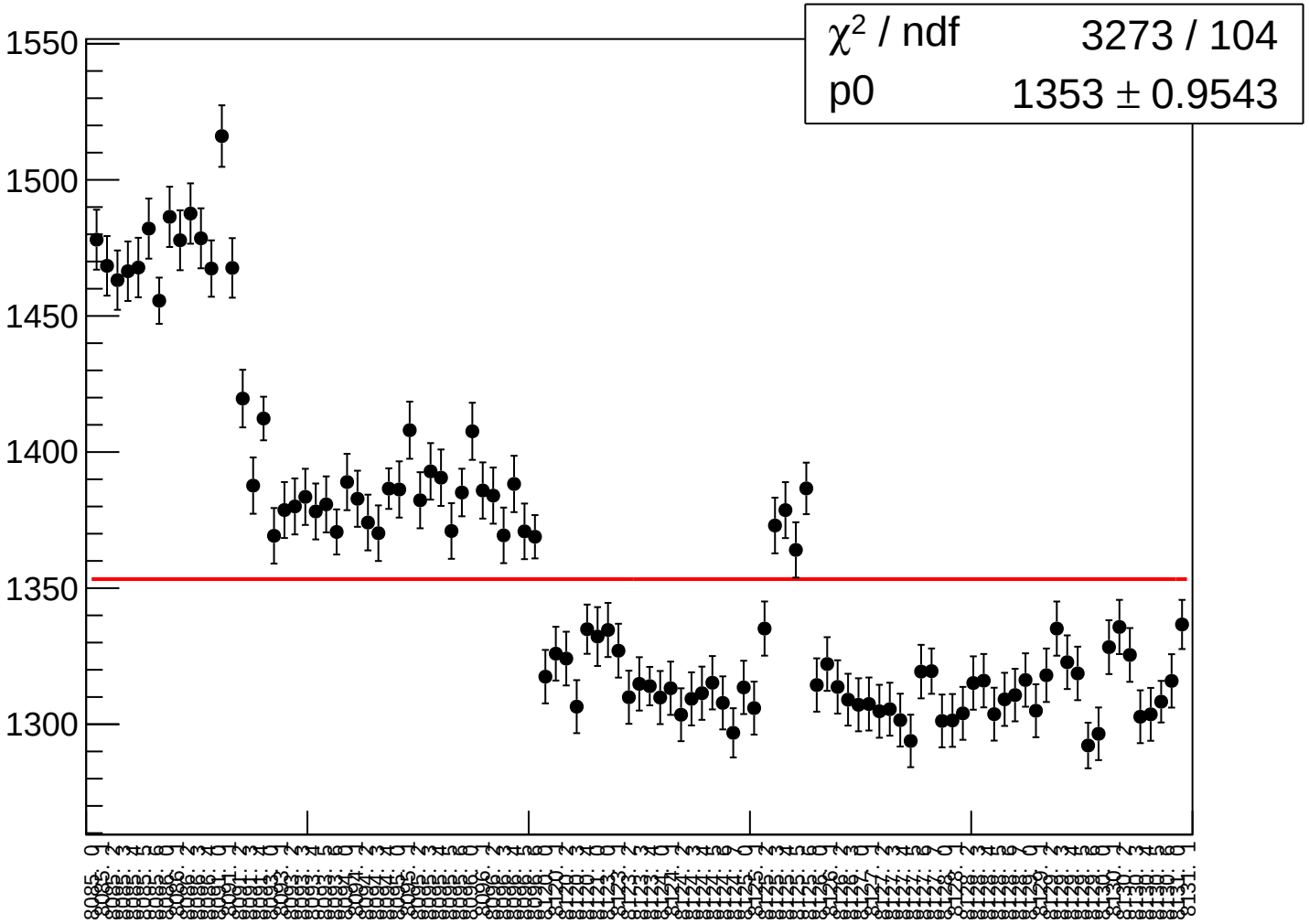

asym_us_dd_at2lr_dd_dd_dit_correction_mean vs run
χ² / ndf 80.09 / 105
p0 1516 ± 943.8
60000
40000
20000
0
−20000
−40000
pull
Entries 106
Mean −62.06
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

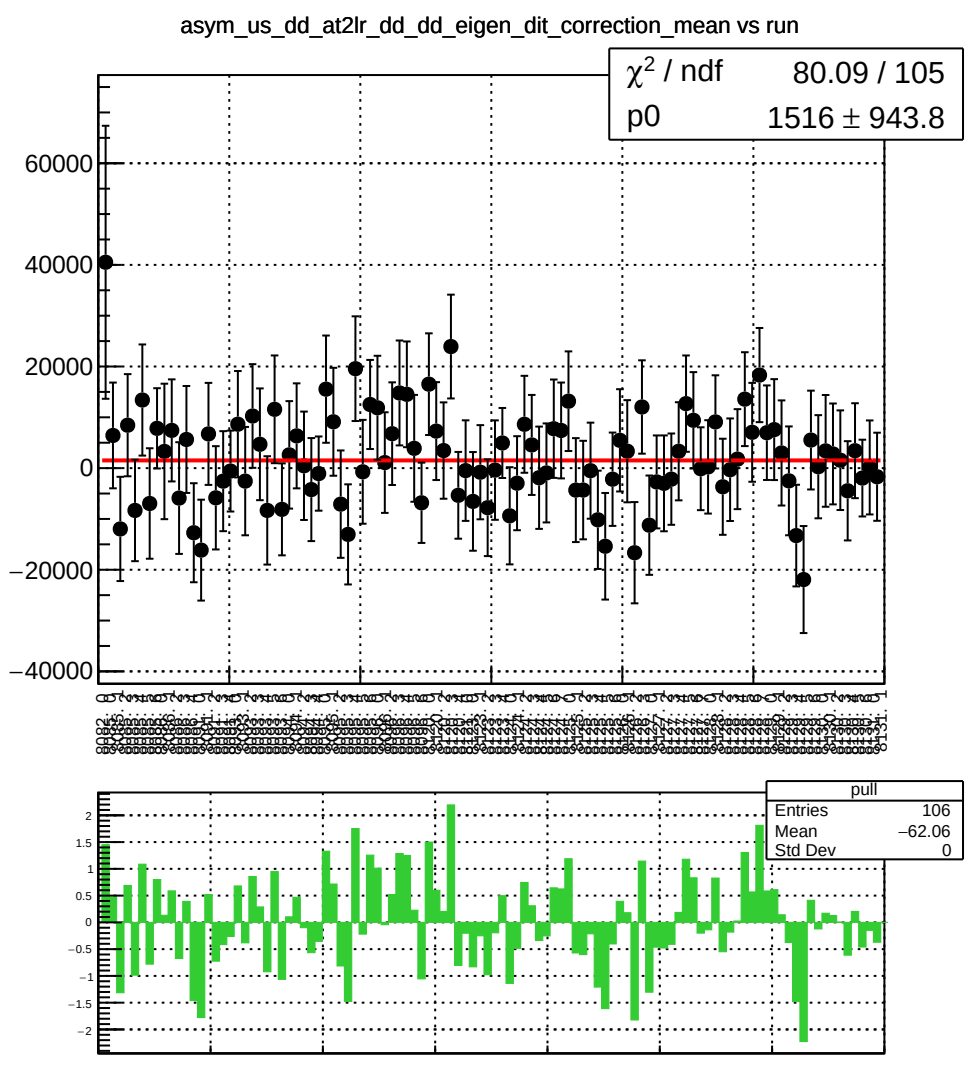

pull1D
Entries 106
Mean 0.01167
Std Dev 0.8692
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

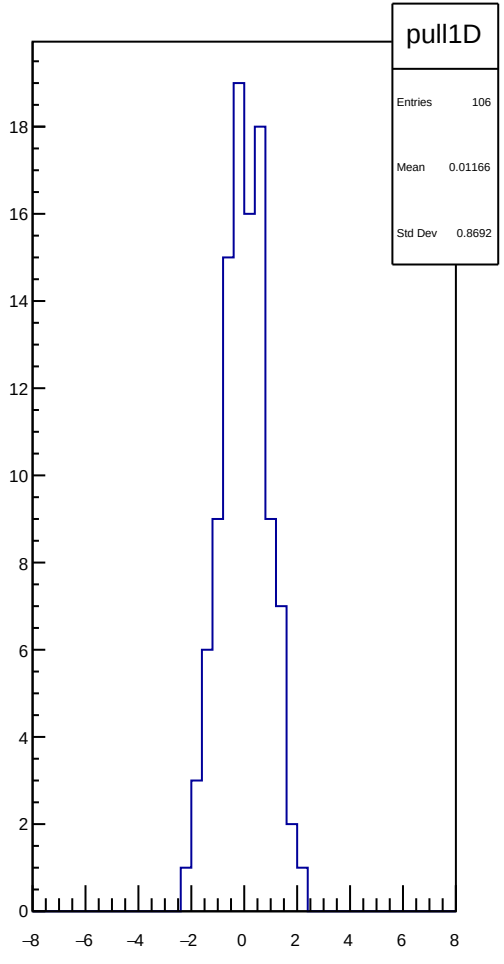

asym_us_dd_at2lr_dd_dd_dit_correction_rms vs run
χ² / ndf 7988 / 105
p0 947.3 ± 0.6674
1800
1600
1400
1200
1000
800

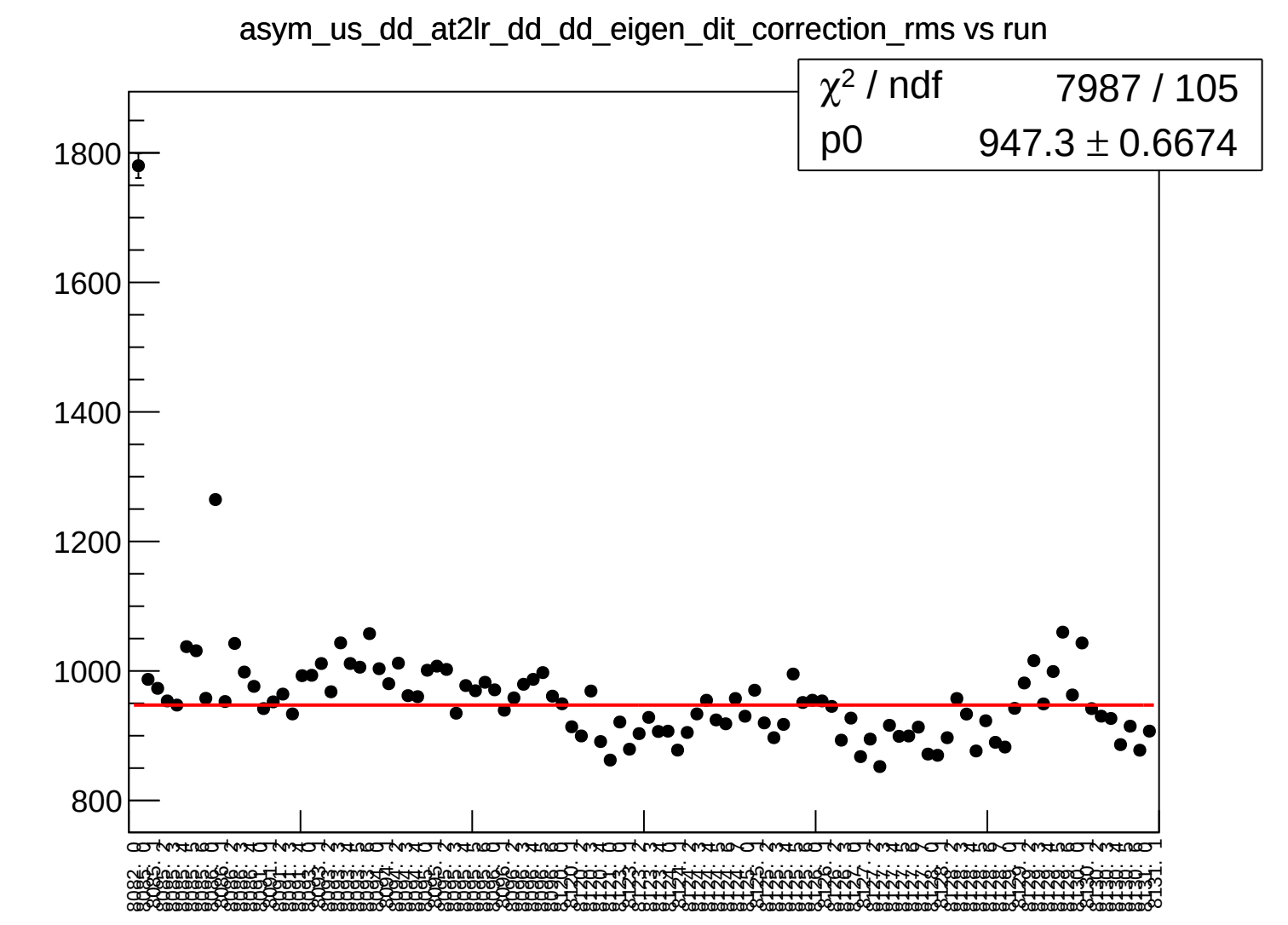

eigen_dit_asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 93.83 / 104
p0 670.7 ± 1350
60000
40000
20000
0
−20000
−40000
pull
Entries 105
Mean −74.36
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

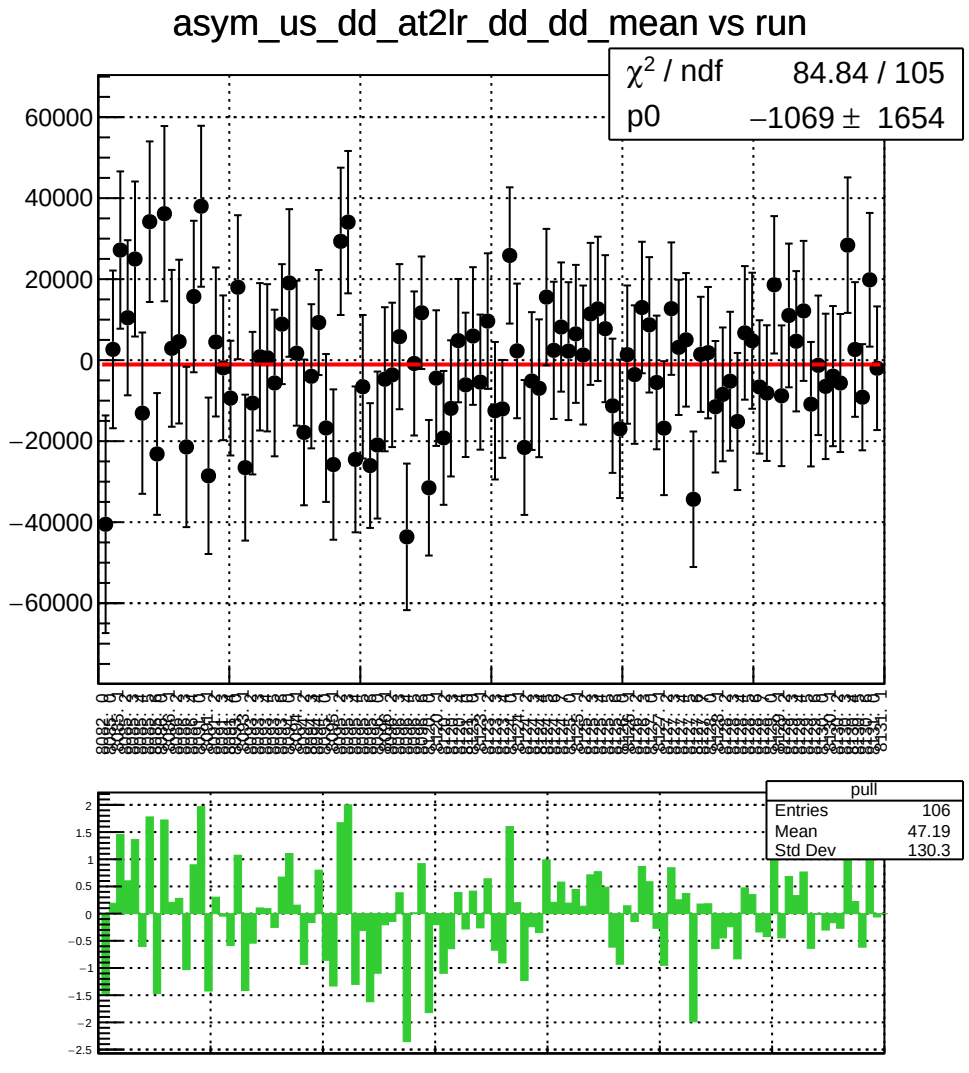

pull1D
Entries 105
Mean 0.01385
Std Dev 0.9452
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

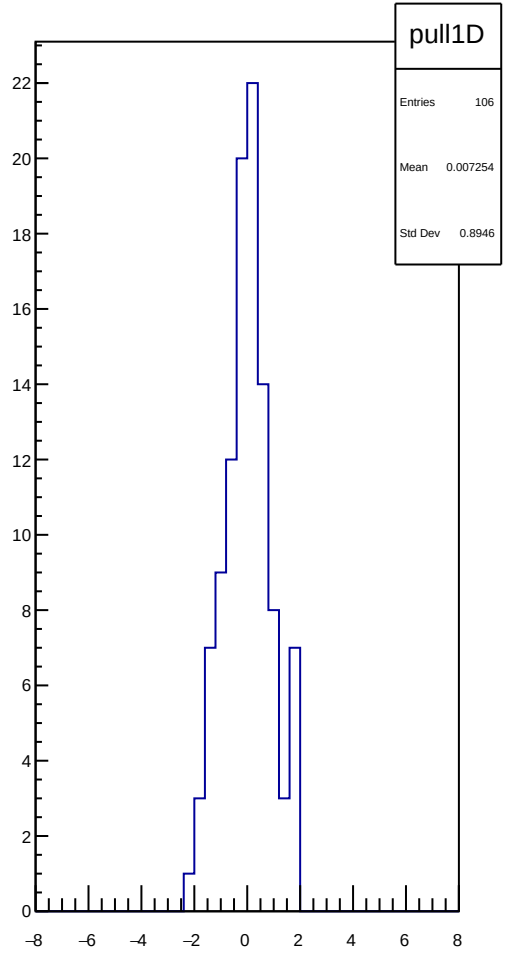

eigen_dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 3273 / 104
p0 1353 ± 0.9543
1550
1500
1450
1400
1350
1300

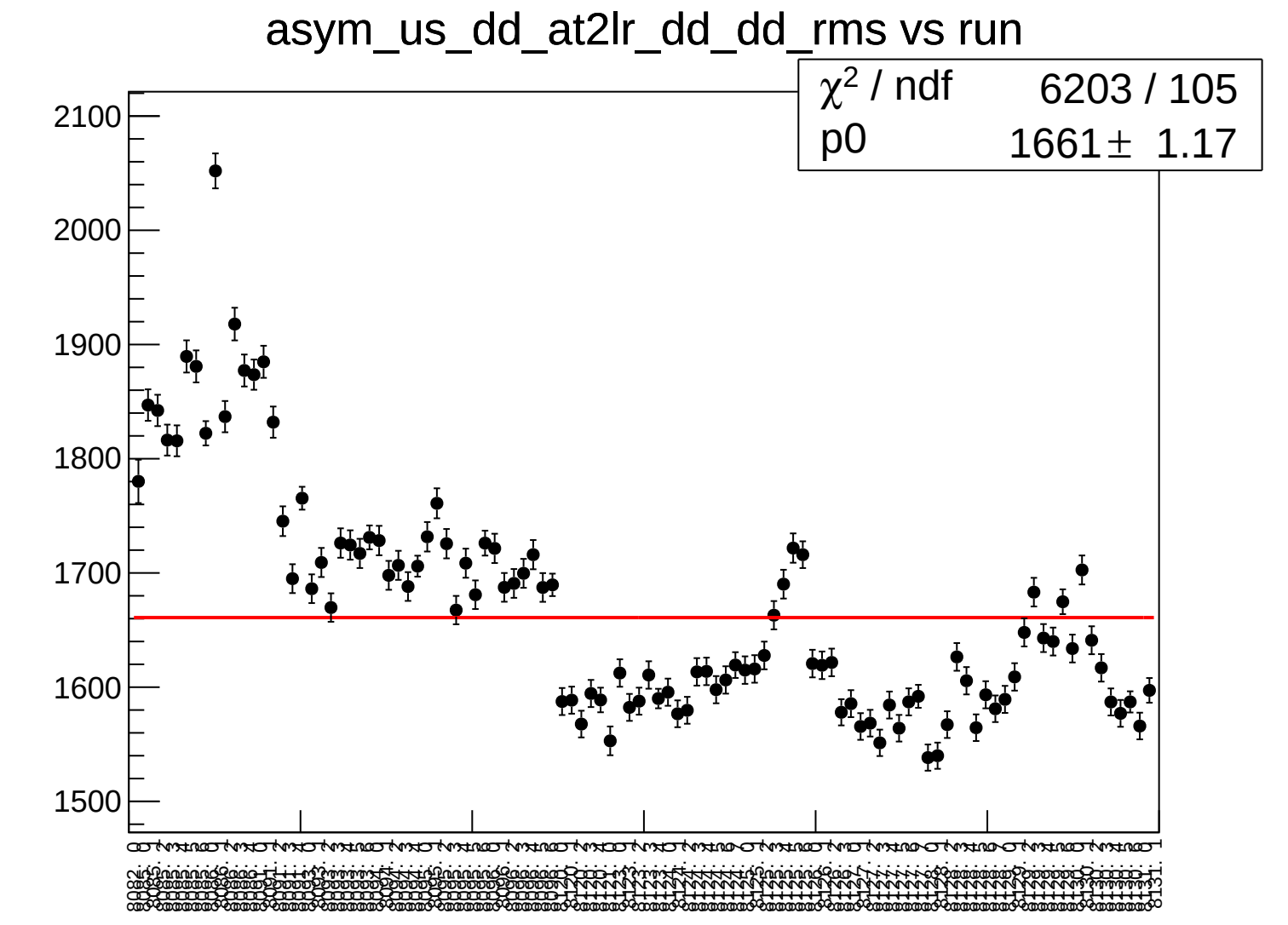

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 80.09 / 105
p0 1516 ± 943.8
60000
40000
20000
0
−20000
−40000
pull
Entries 106
Mean −62.06
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

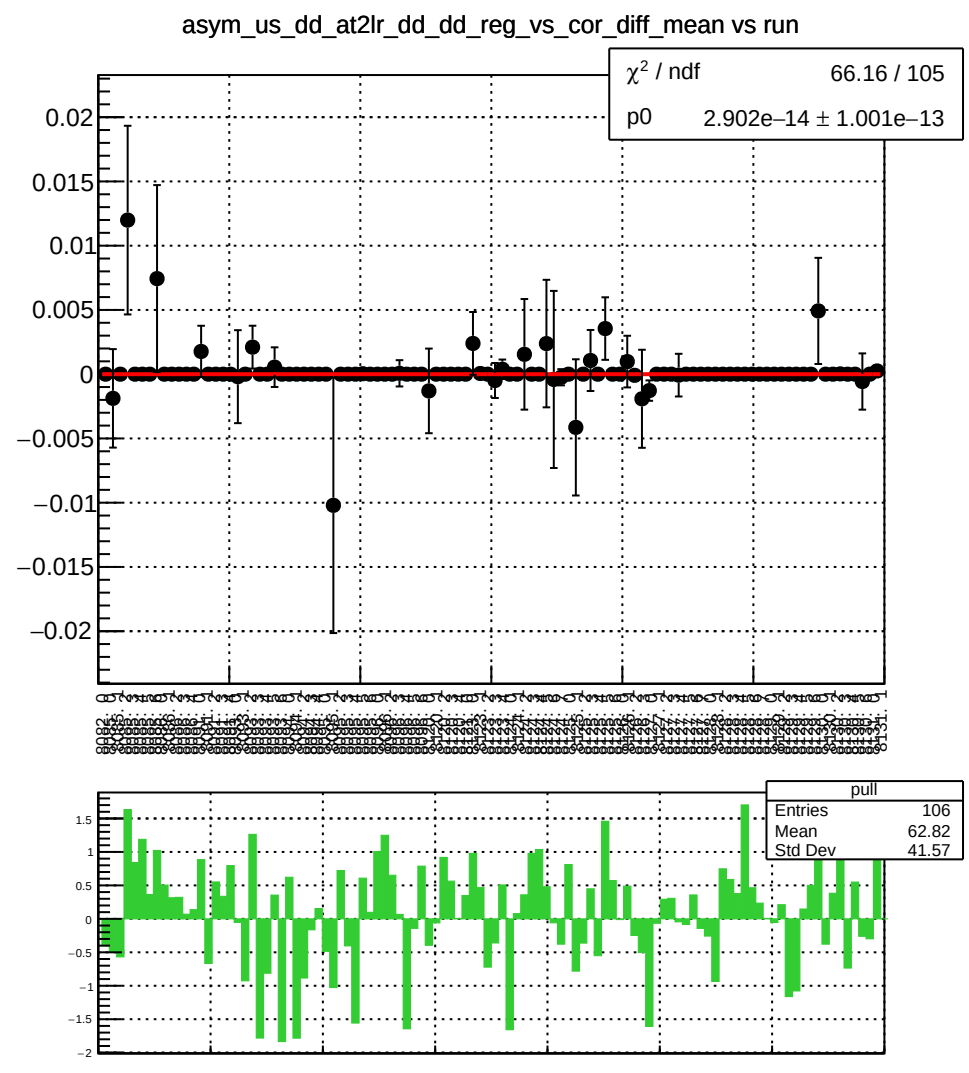

pull1D
Entries 106
Mean 0.01166
Std Dev 0.8692
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

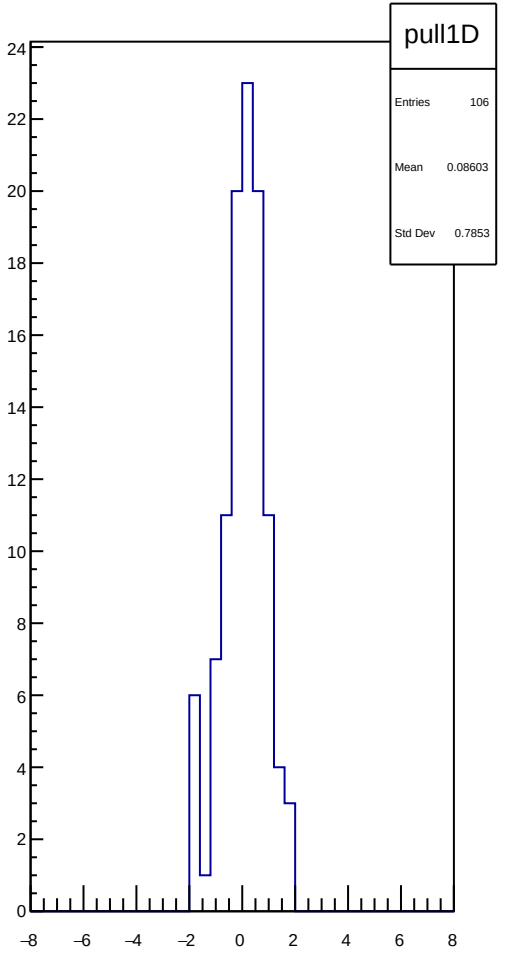

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 7987 / 105
p0 947.3 ± 0.6674
1800
1600
1400
1200
1000
800

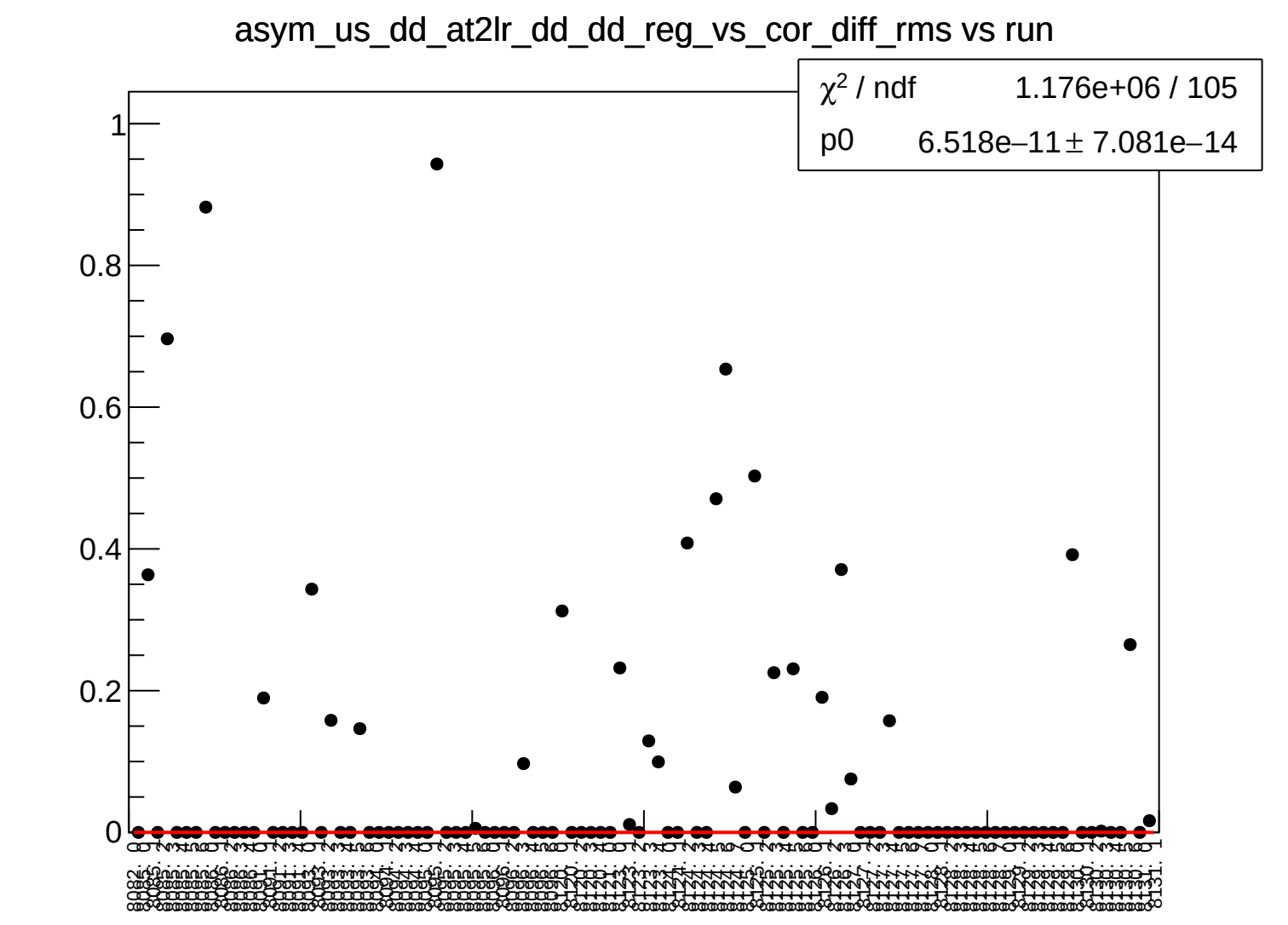

asym_us_dd_at2lr_dd_dd_mean vs run
χ² / ndf 84.84 / 105
p0 −1069 ± 1654
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean 47.19
Std Dev 130.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

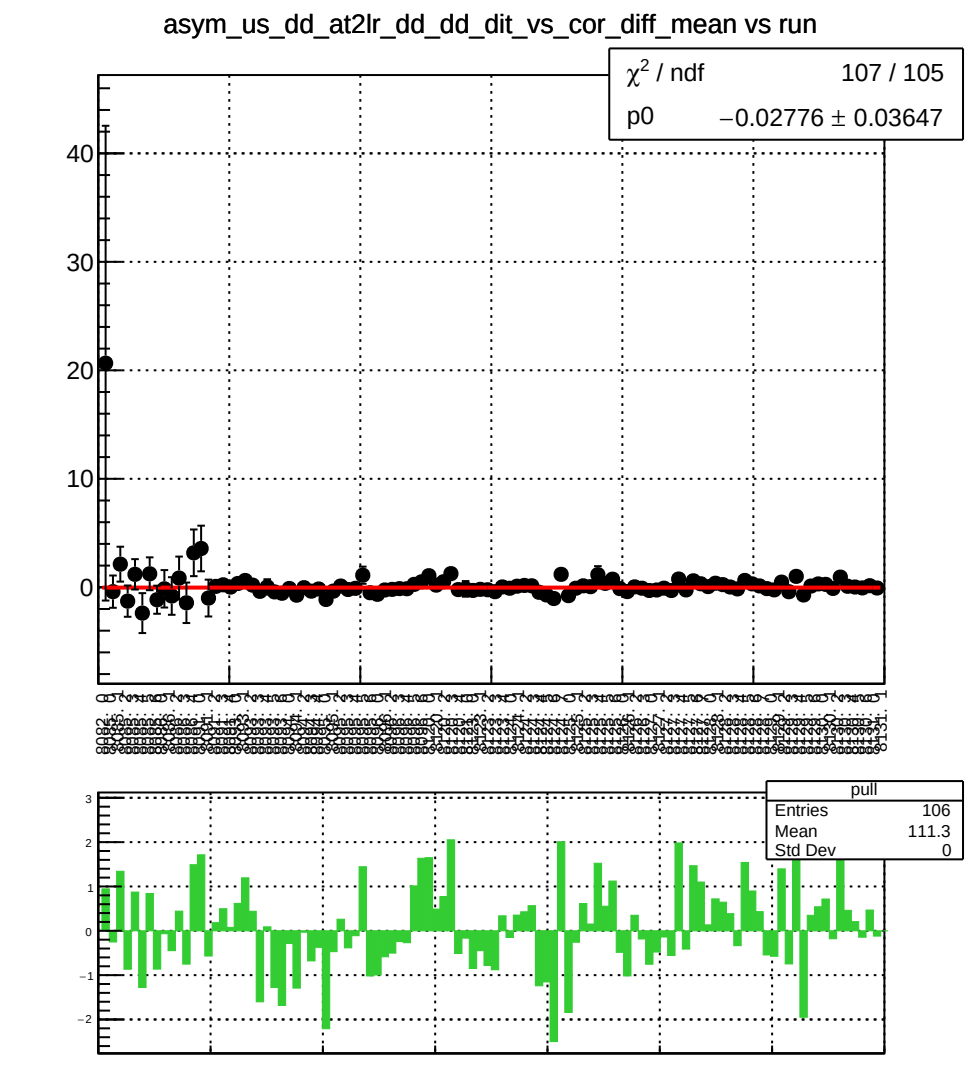

pull1D
Entries 106
Mean 0.007254
Std Dev 0.8946
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

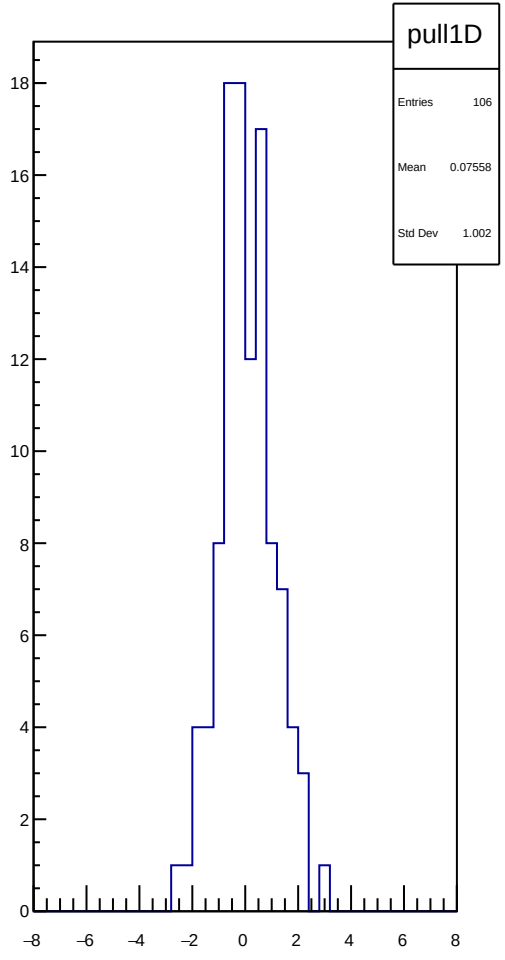

asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 6203 / 105
p0 1661 ± 1.17
2100
2000
1900
1800
1700
1600
1500

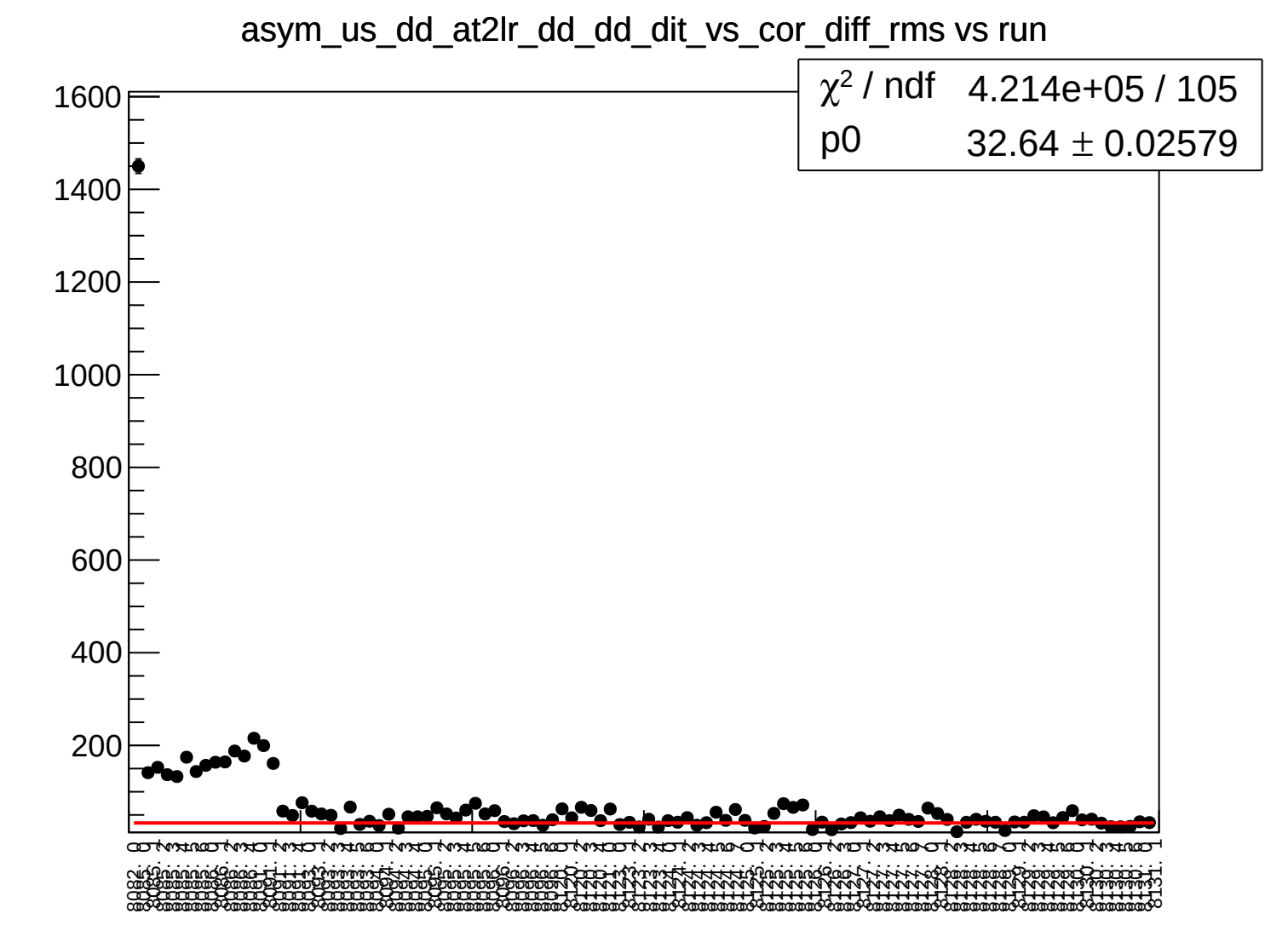

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 66.16 / 105
p0 2.902e−14 ± 1.001e−13
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
−0.02
pull
Entries 106
Mean 62.82
Std Dev 41.57
1.5
1
0.5
0
−0.5
−1
−1.5
−2

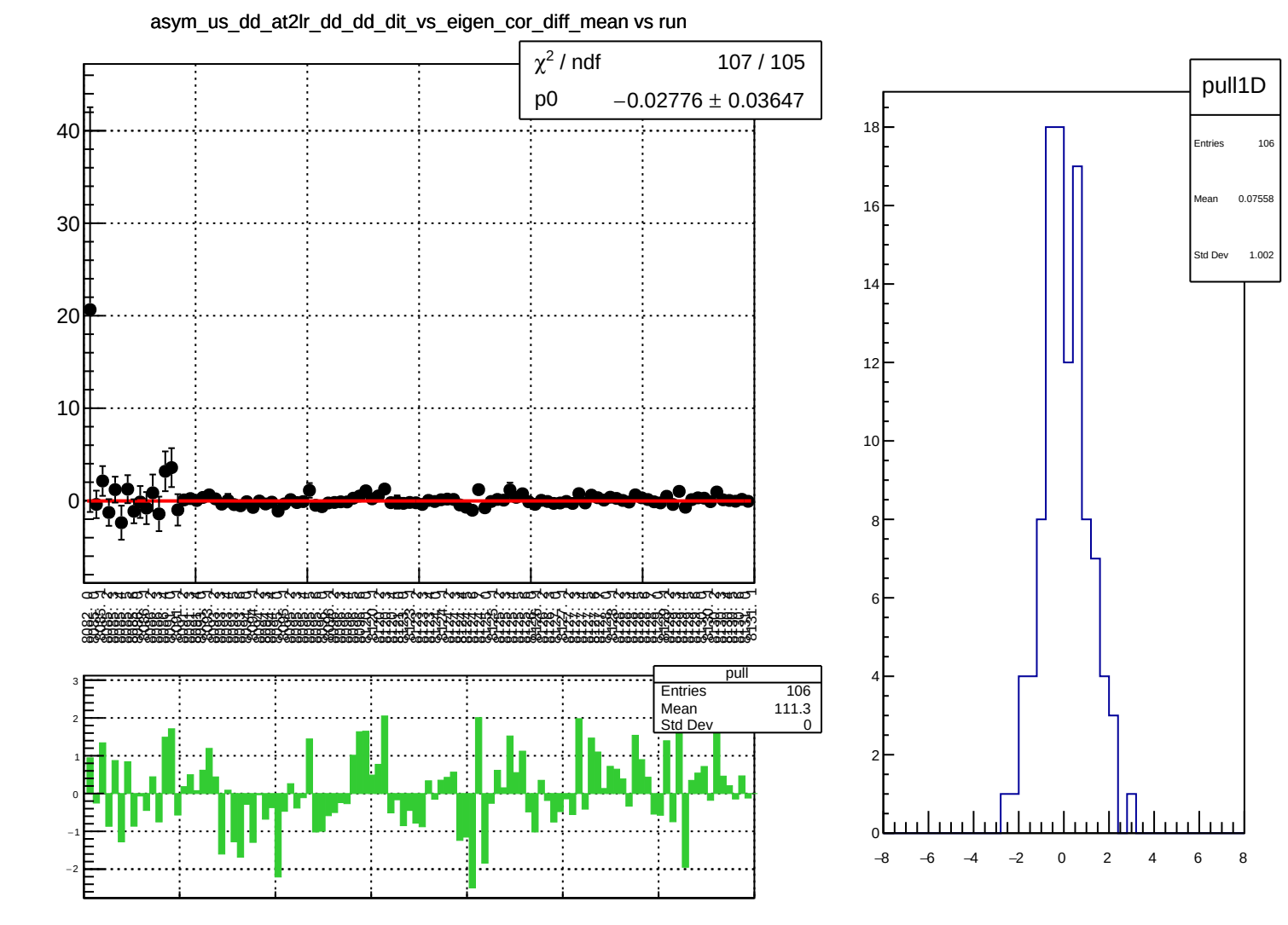

pull1D
Entries 106
Mean 0.08603
Std Dev 0.7853
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

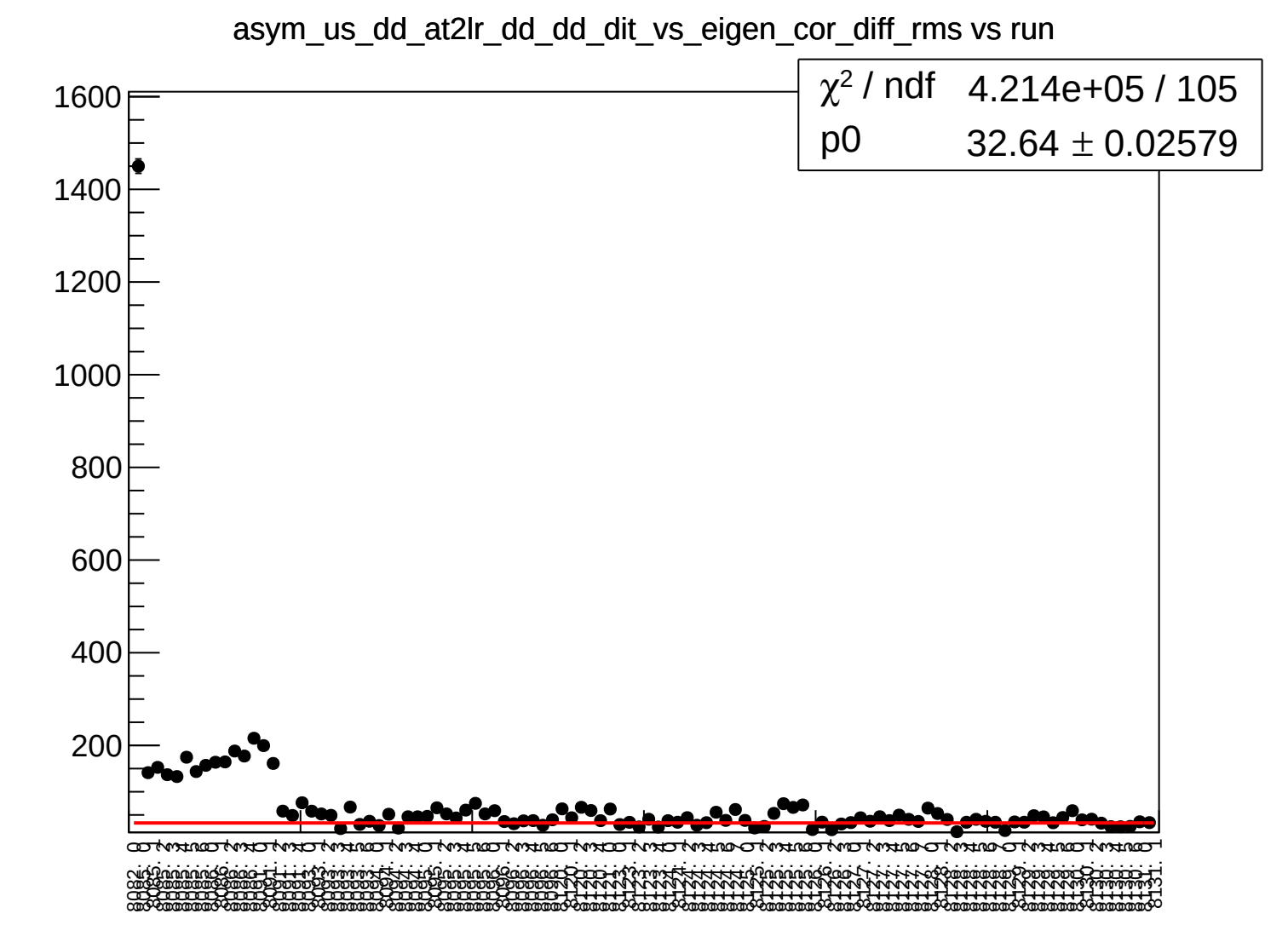

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.176e+06 / 105
p0 6.518e−11 ± 7.081e−14
1
0.8
0.6
0.4
0.2
0

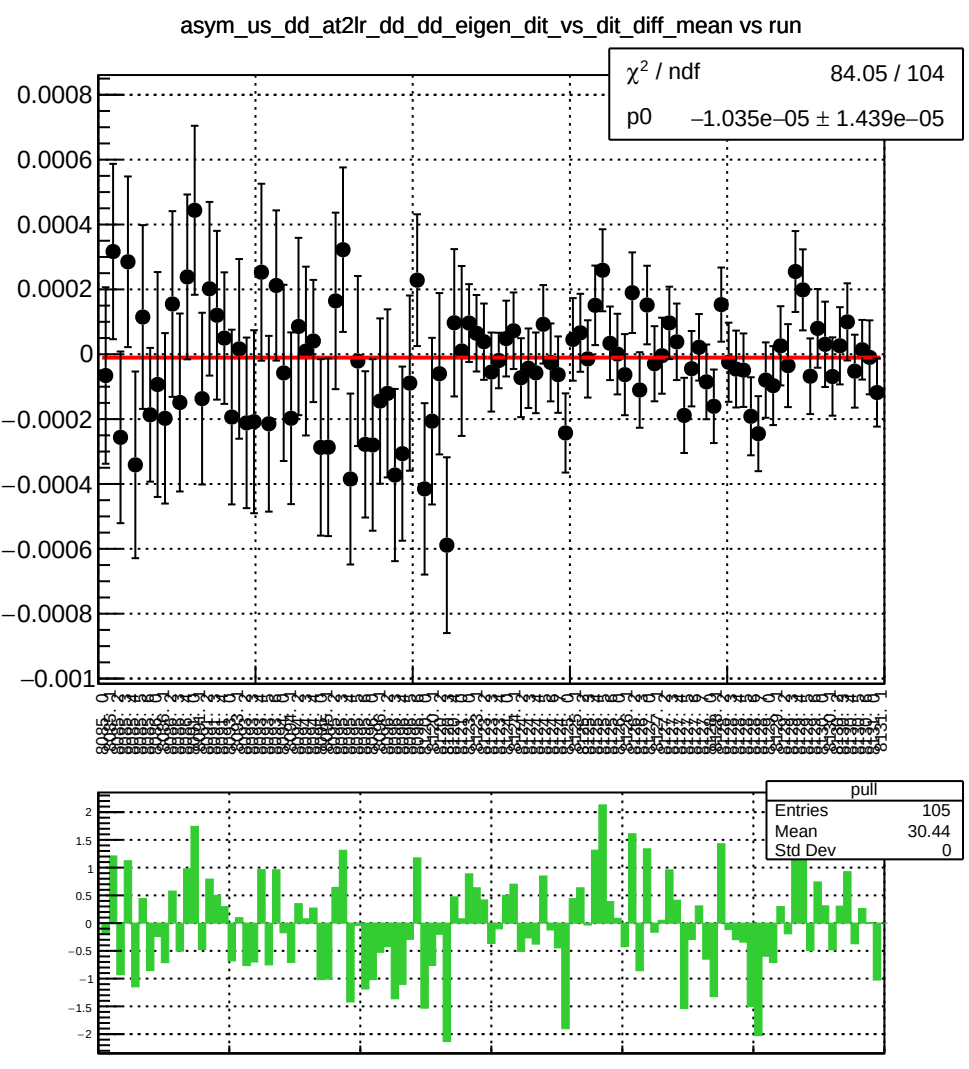

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 107 / 105
p0 −0.02776 ± 0.03647
pull
Entries 106
Mean 111.3
Std Dev 0

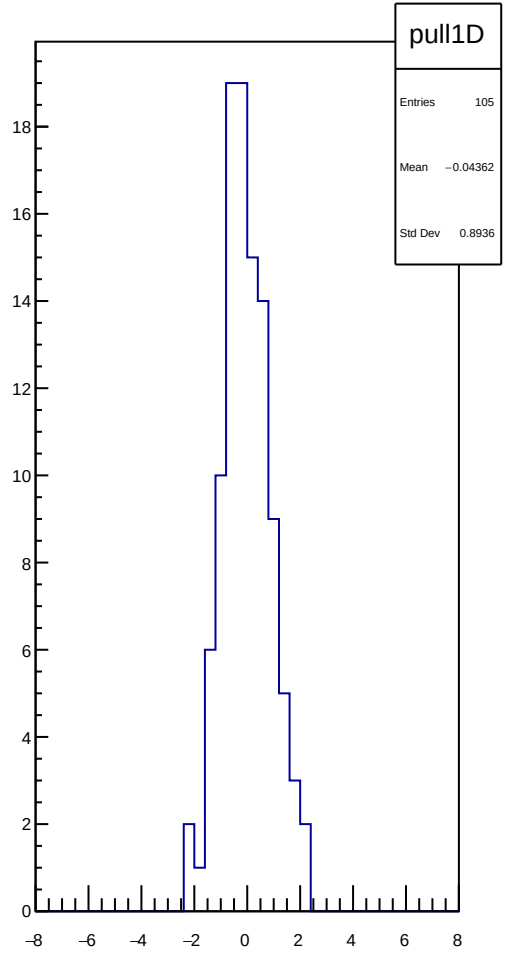

pull1D
Entries 106
Mean 0.07558
Std Dev 1.002

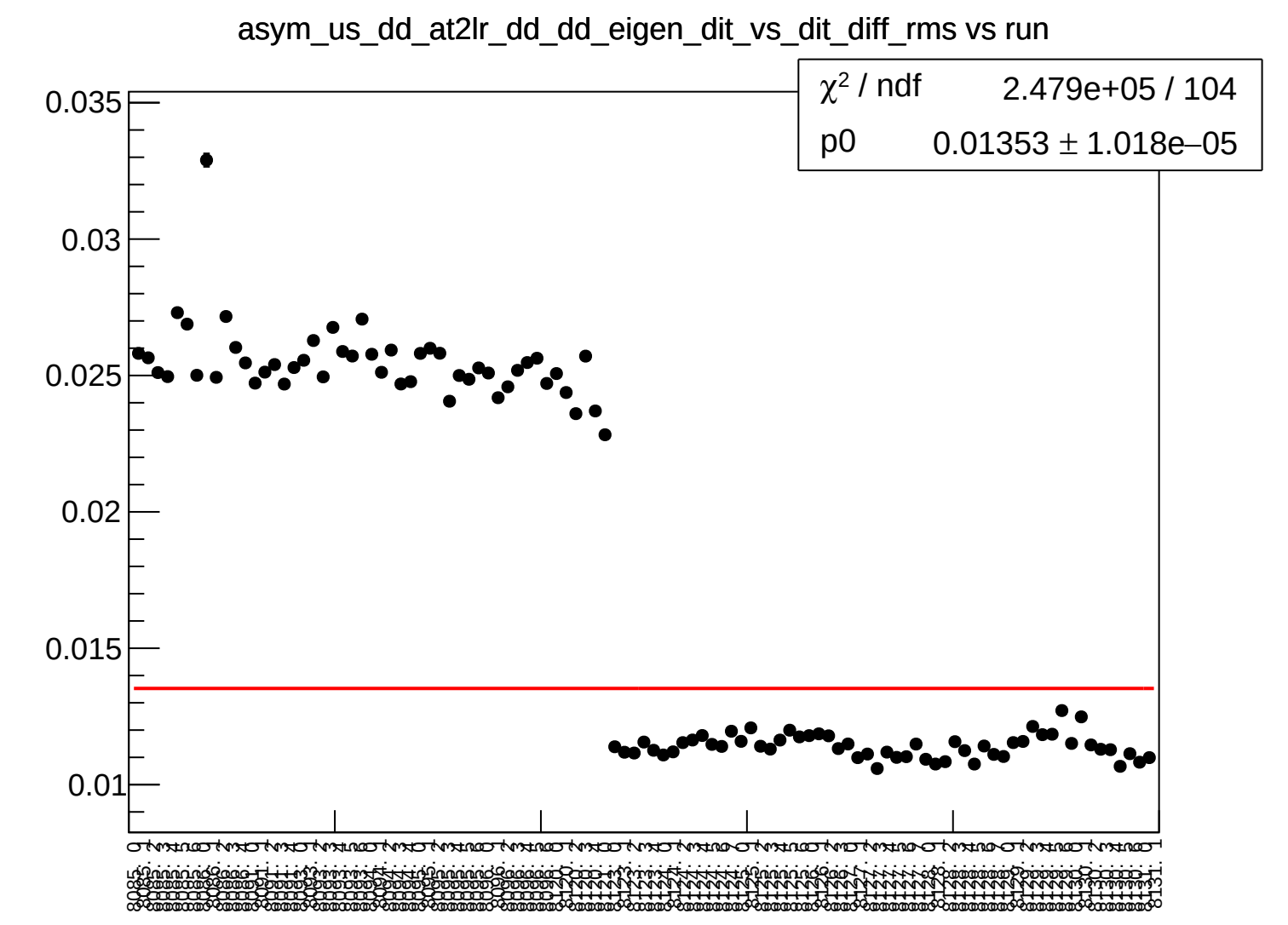

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.214e+05 / 105
p0 32.64 ± 0.02579
1600
1400
1200
1000
800
600
400
200

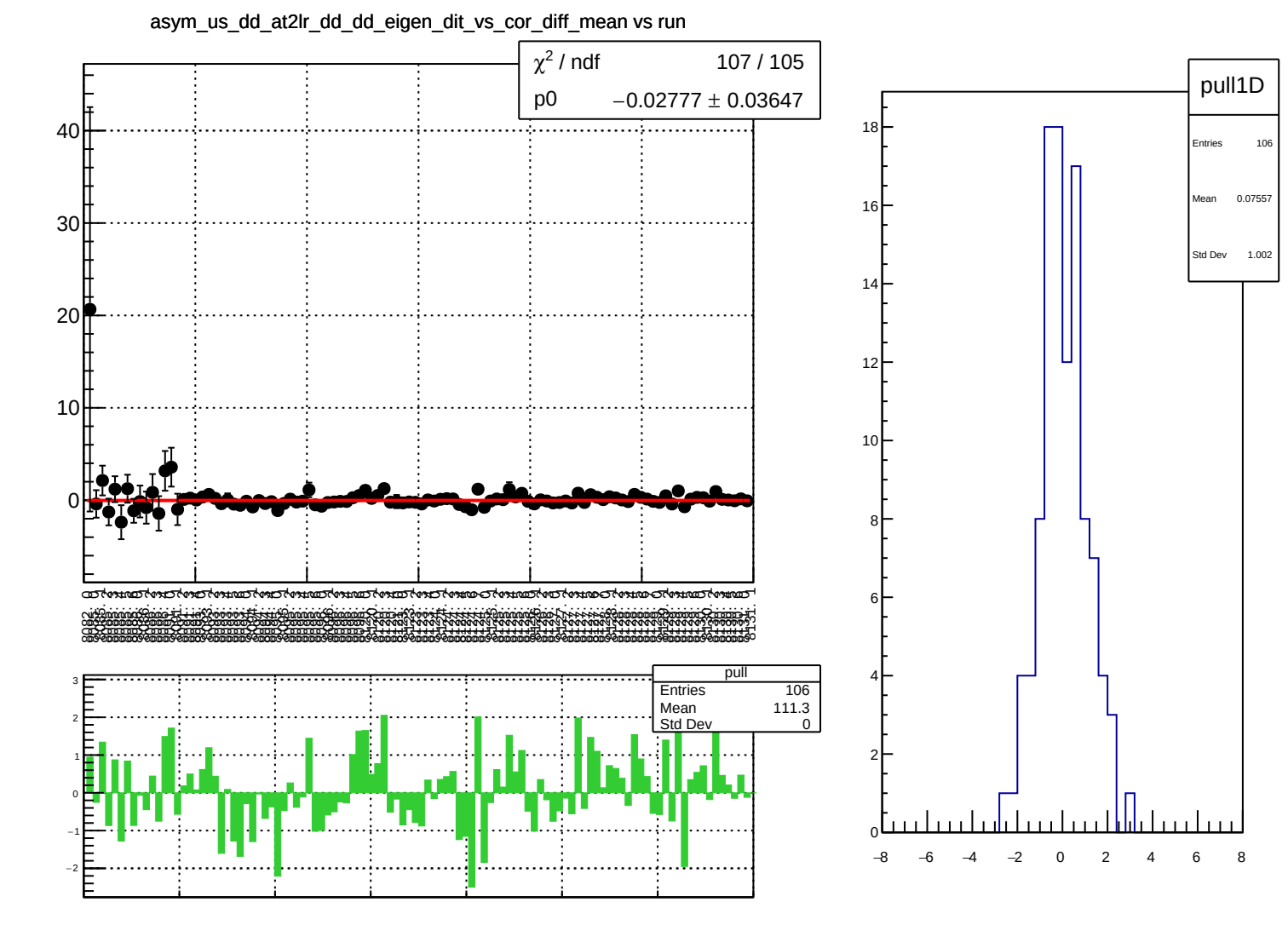

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107 / 105
p0 −0.02776 ± 0.03647
pull
Entries 106
Mean 111.3
Std Dev 0
pull1D
Entries 106
Mean 0.07558
Std Dev 1.002

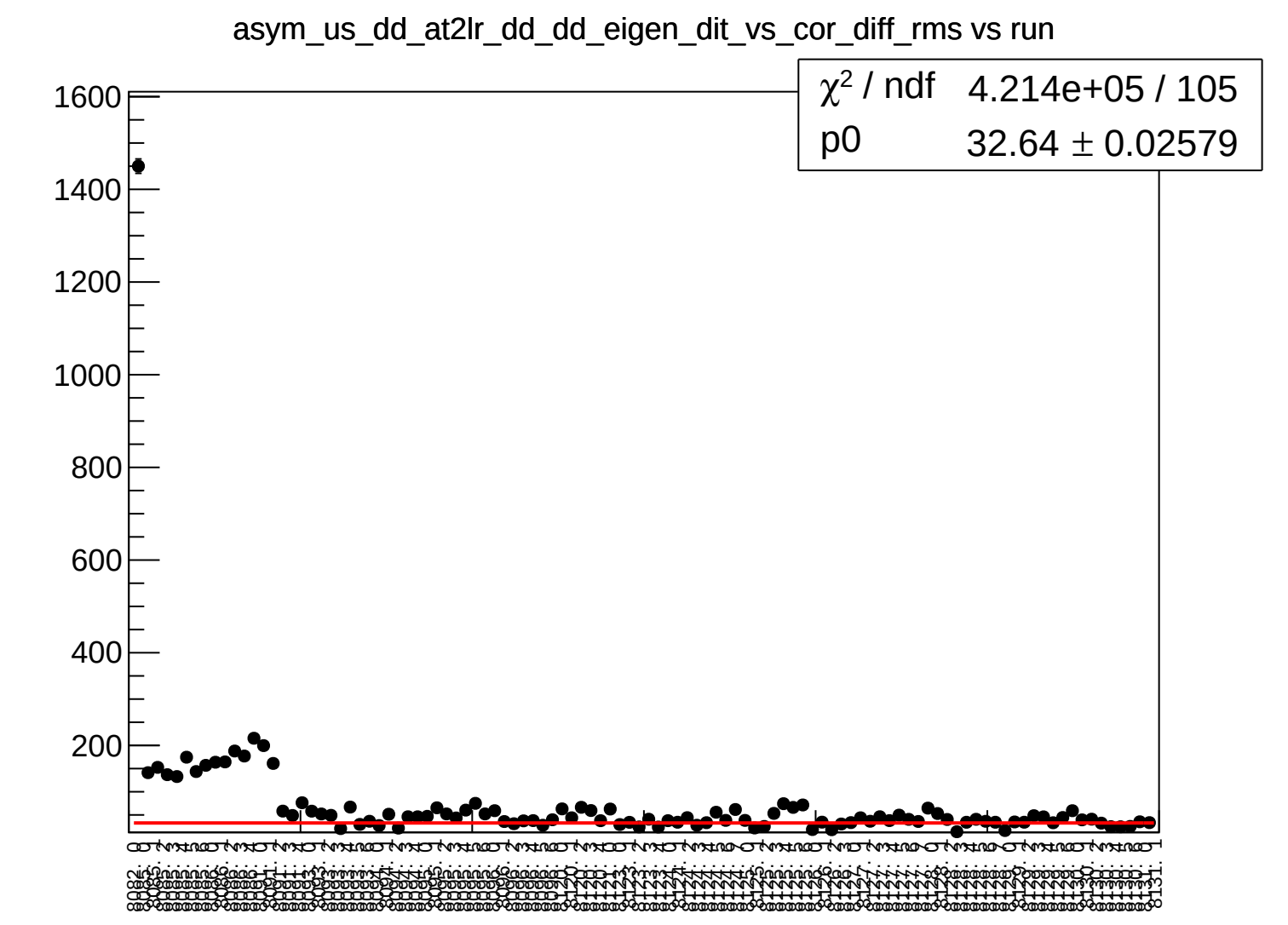

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.214e+05 / 105
p0 32.64 ± 0.02579
1600
1400
1200
1000
800
600
400
200

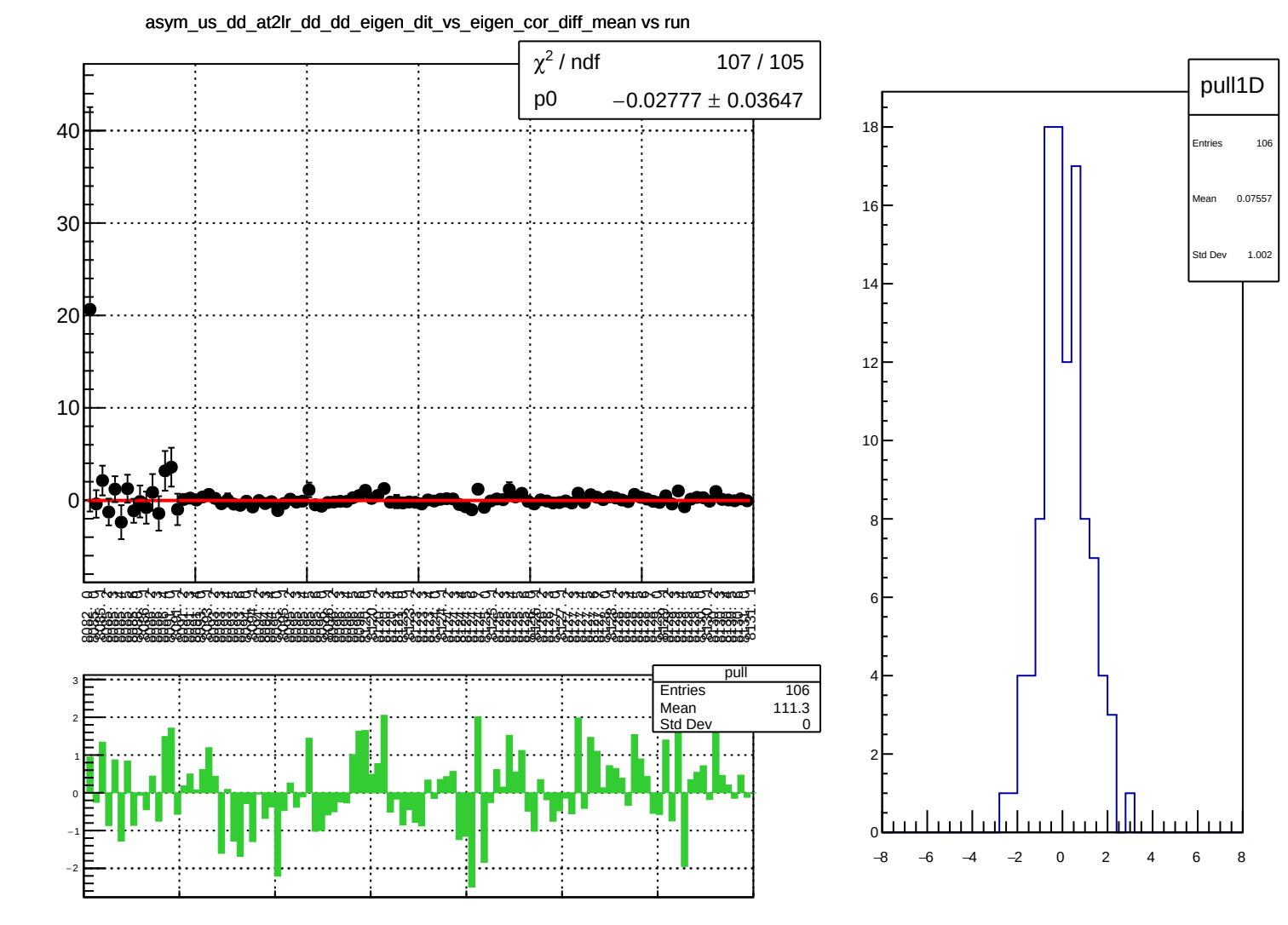

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 84.05 / 104
p0 −1.035e−05 ± 1.439e−05
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 105
Mean 30.44
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

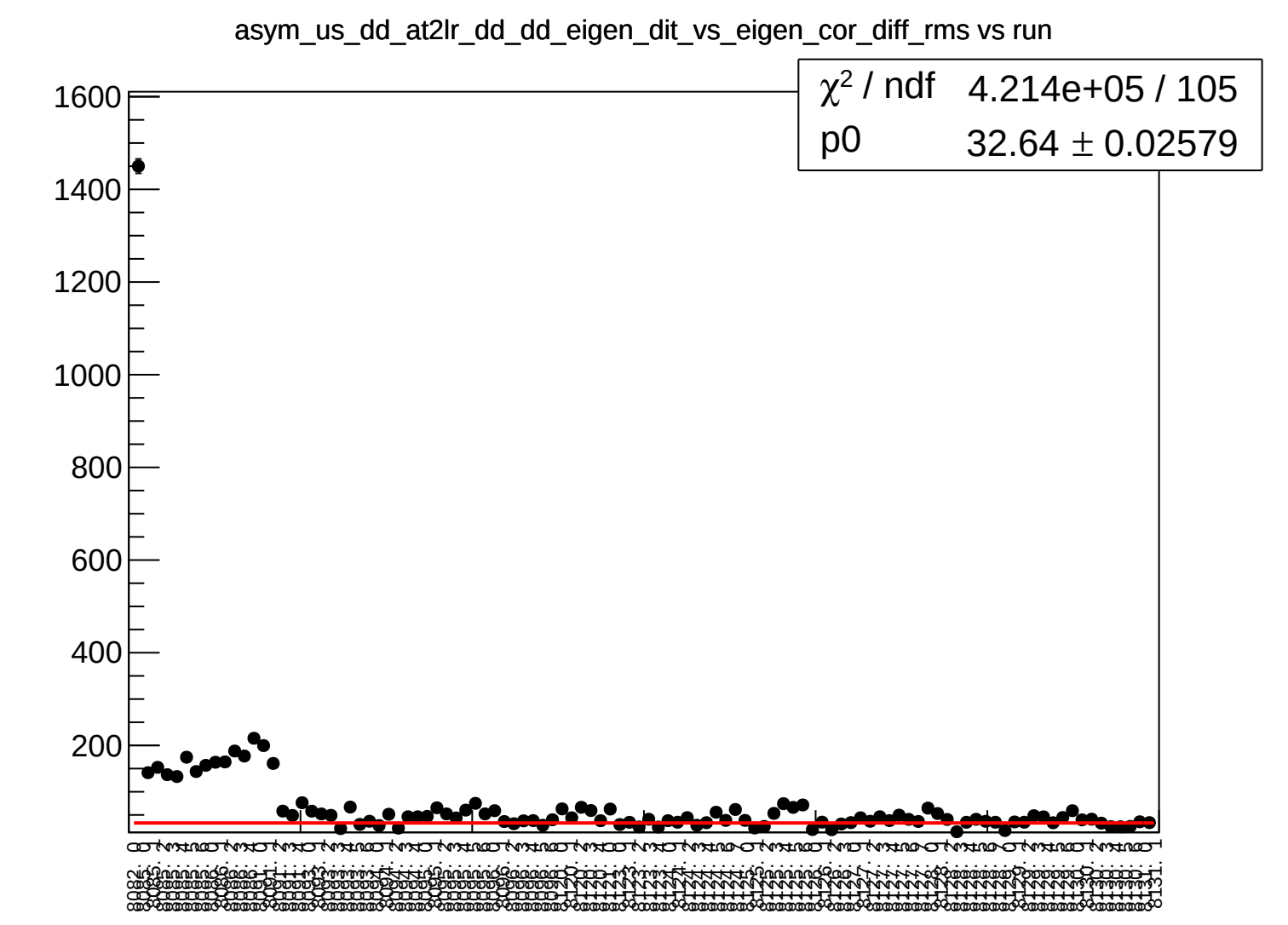

pull1D
Entries 105
Mean −0.04362
Std Dev 0.8936
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

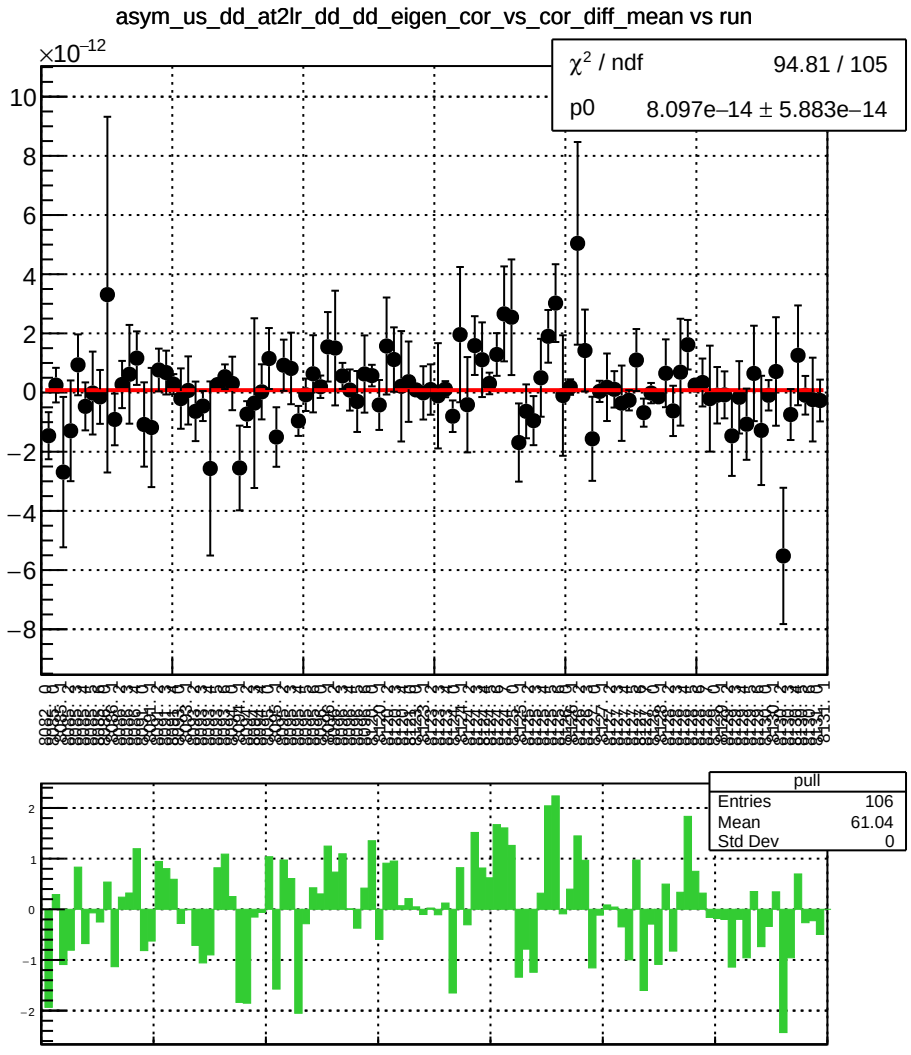

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.479e+05 / 104
p0 0.01353 ± 1.018e−05
0.035
0.03
0.025
0.02
0.015
0.01

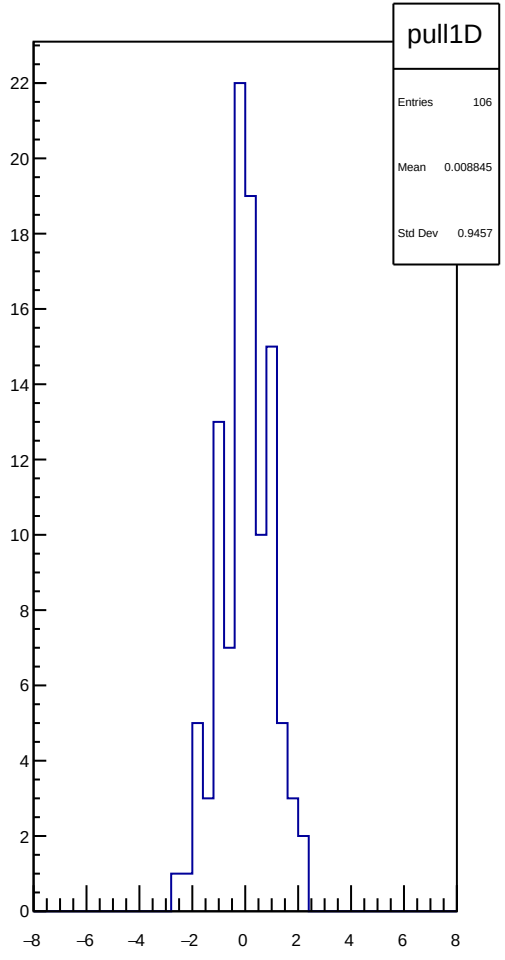

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 107 / 105
p0 −0.02777 ± 0.03647
pull
Entries 106
Mean 111.3
Std Dev 0
pull1D
Entries 106
Mean 0.07557
Std Dev 1.002

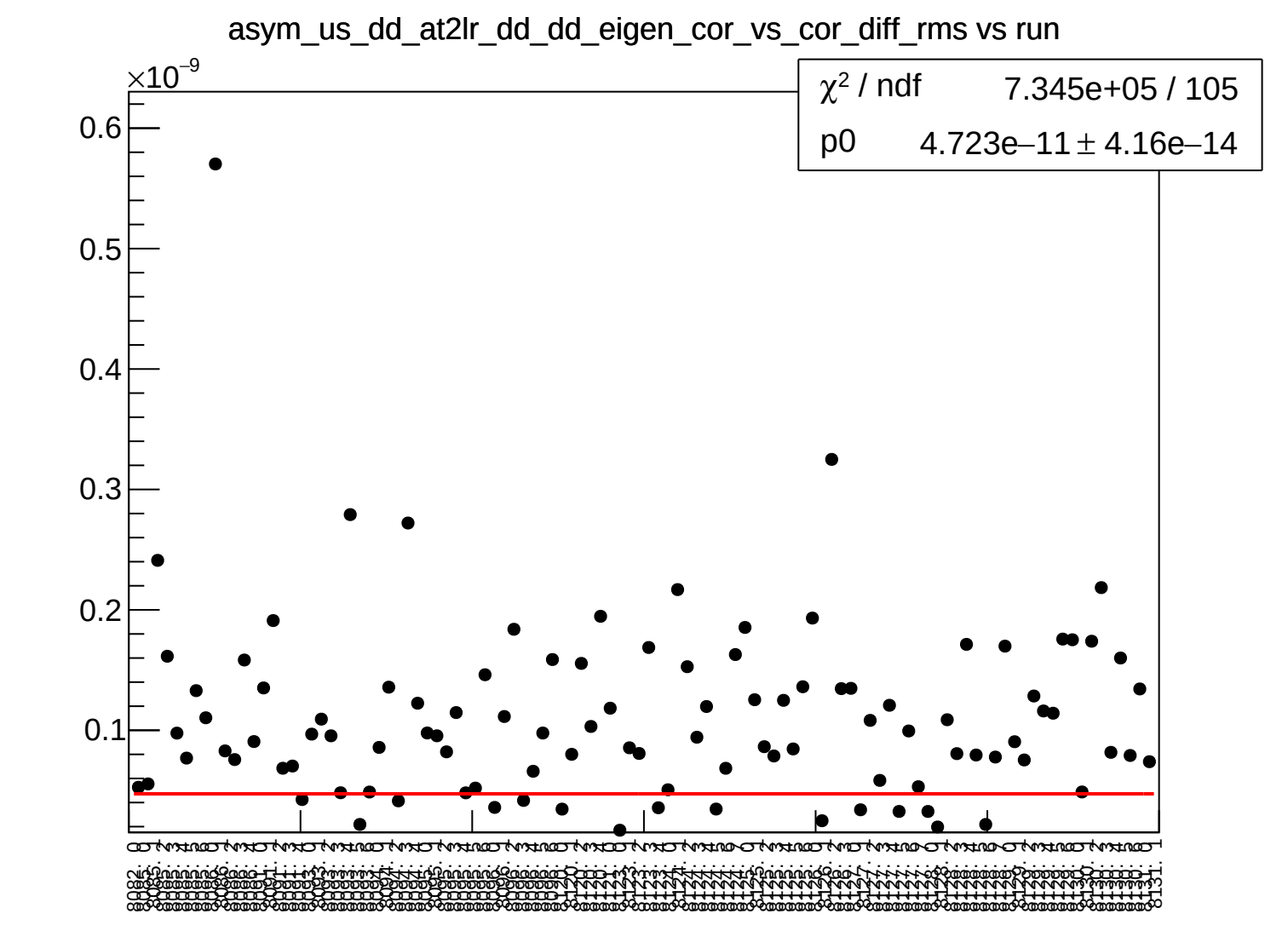

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.214e+05 / 105
p0 32.64 ± 0.02579
1600
1400
1200
1000
800
600
400
200

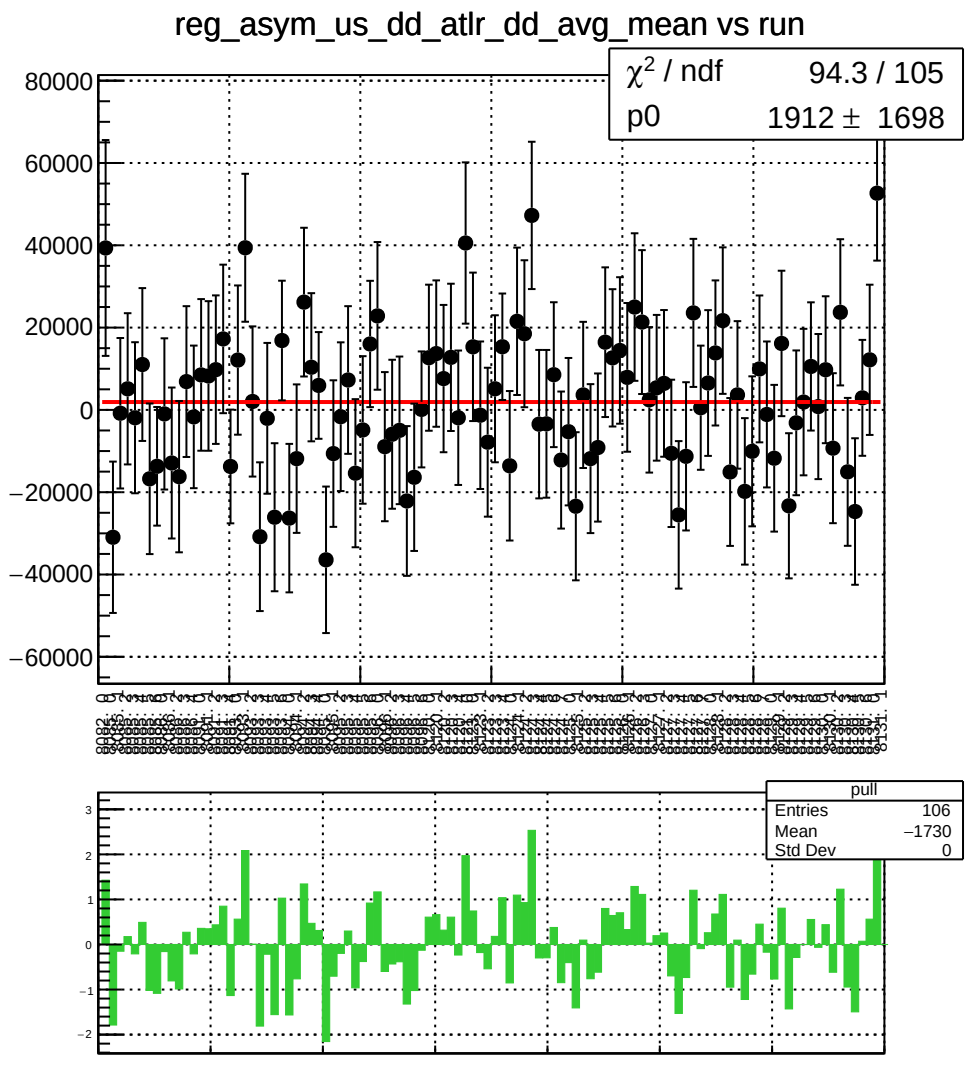

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107 / 105
p0 −0.02777 ± 0.03647
40
30
20
10
0
pull
Entries 106
Mean 111.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 106
Mean 0.07557
Std Dev 1.002
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

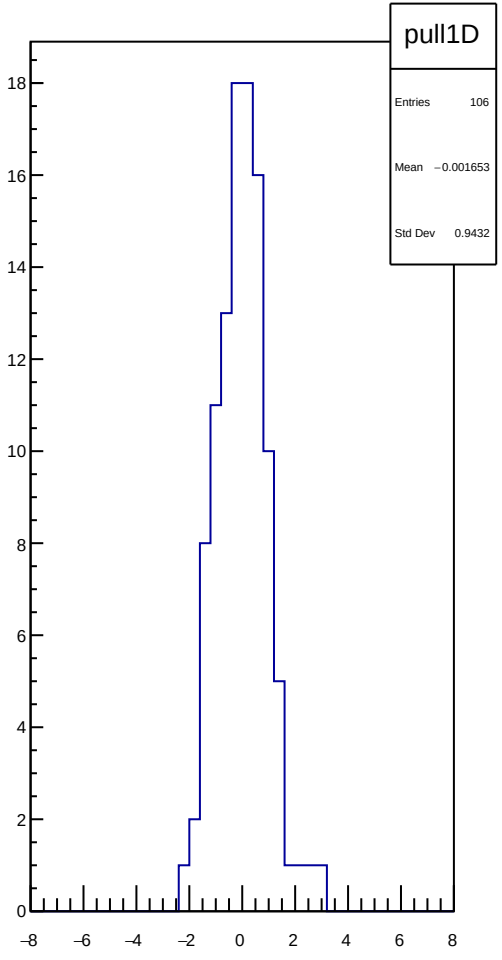

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.214e+05 / 105
p0 32.64 ± 0.02579
1600
1400
1200
1000
800
600
400
200

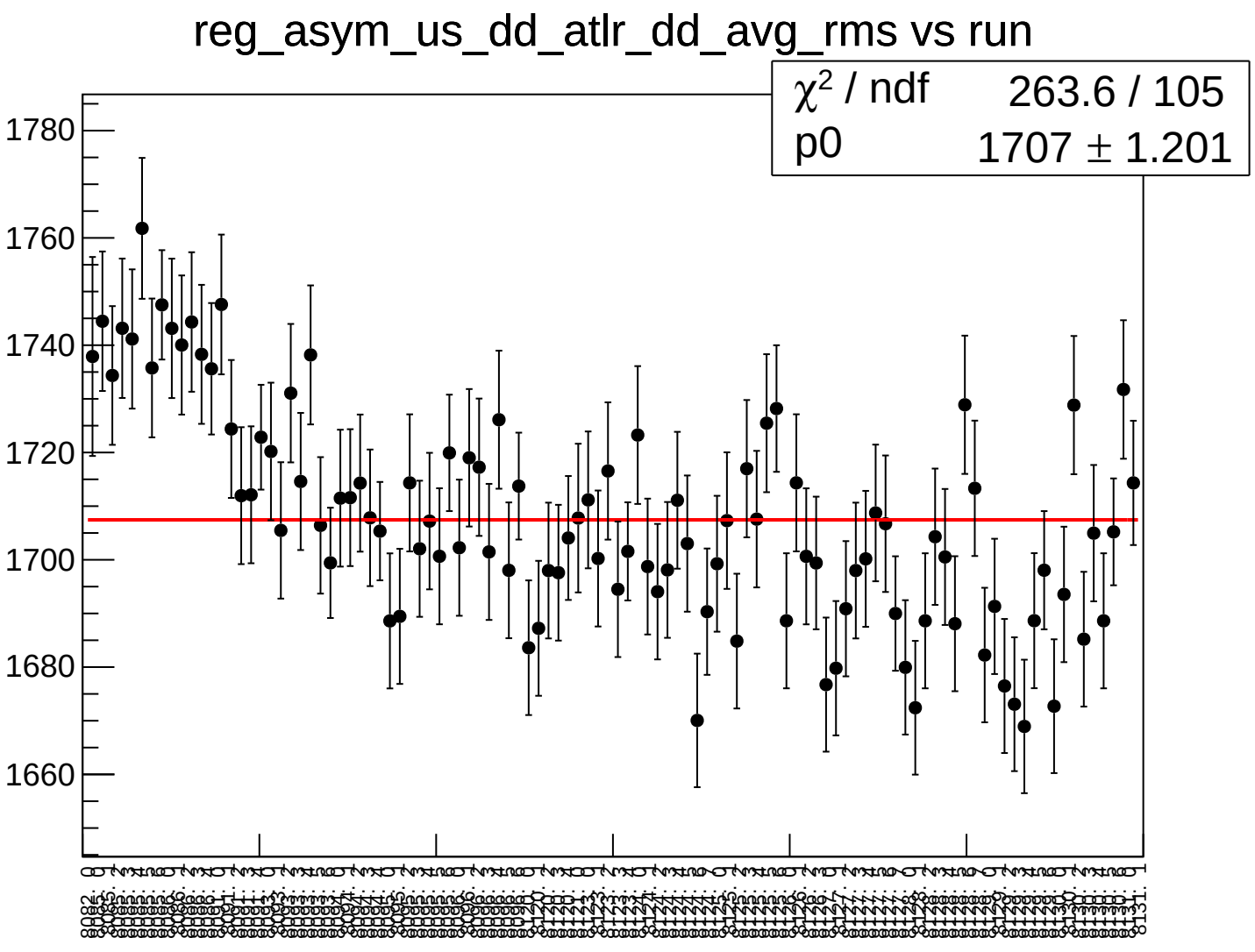

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.81 / 105
p0 8.097e−14 ± 5.883e−14
pull
Entries 106
Mean 61.04
Std Dev 0

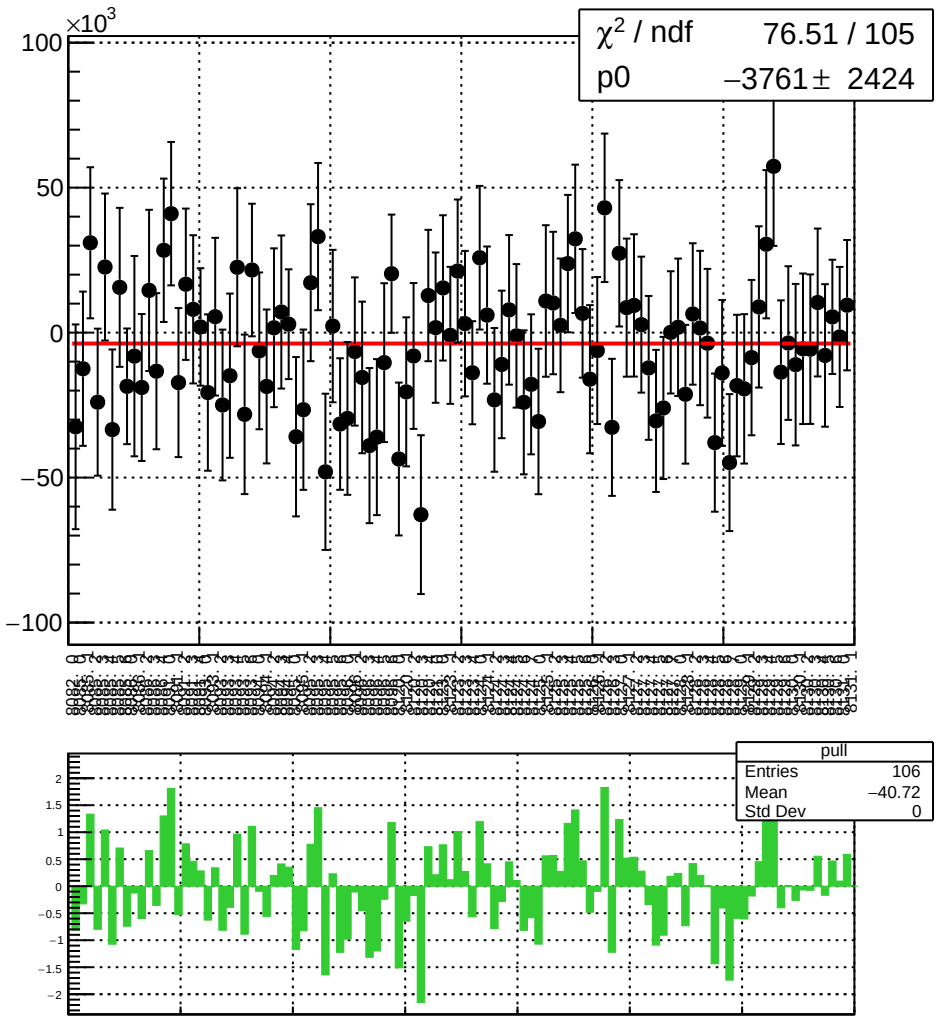

pull1D
Entries 106
Mean 0.008845
Std Dev 0.9457

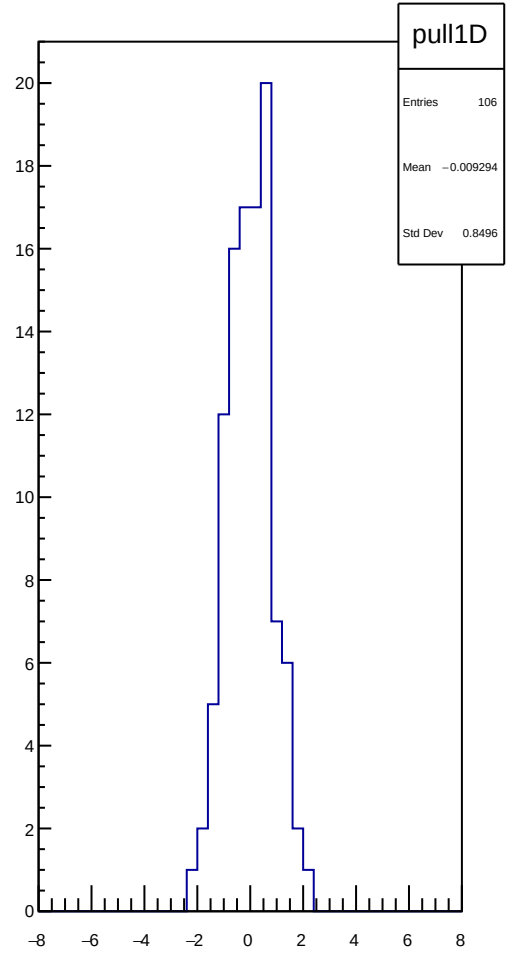

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.345e+05 / 105
p0 4.723e−11 ± 4.16e−14
0.6
0.5
0.4
0.3
0.2
0.1

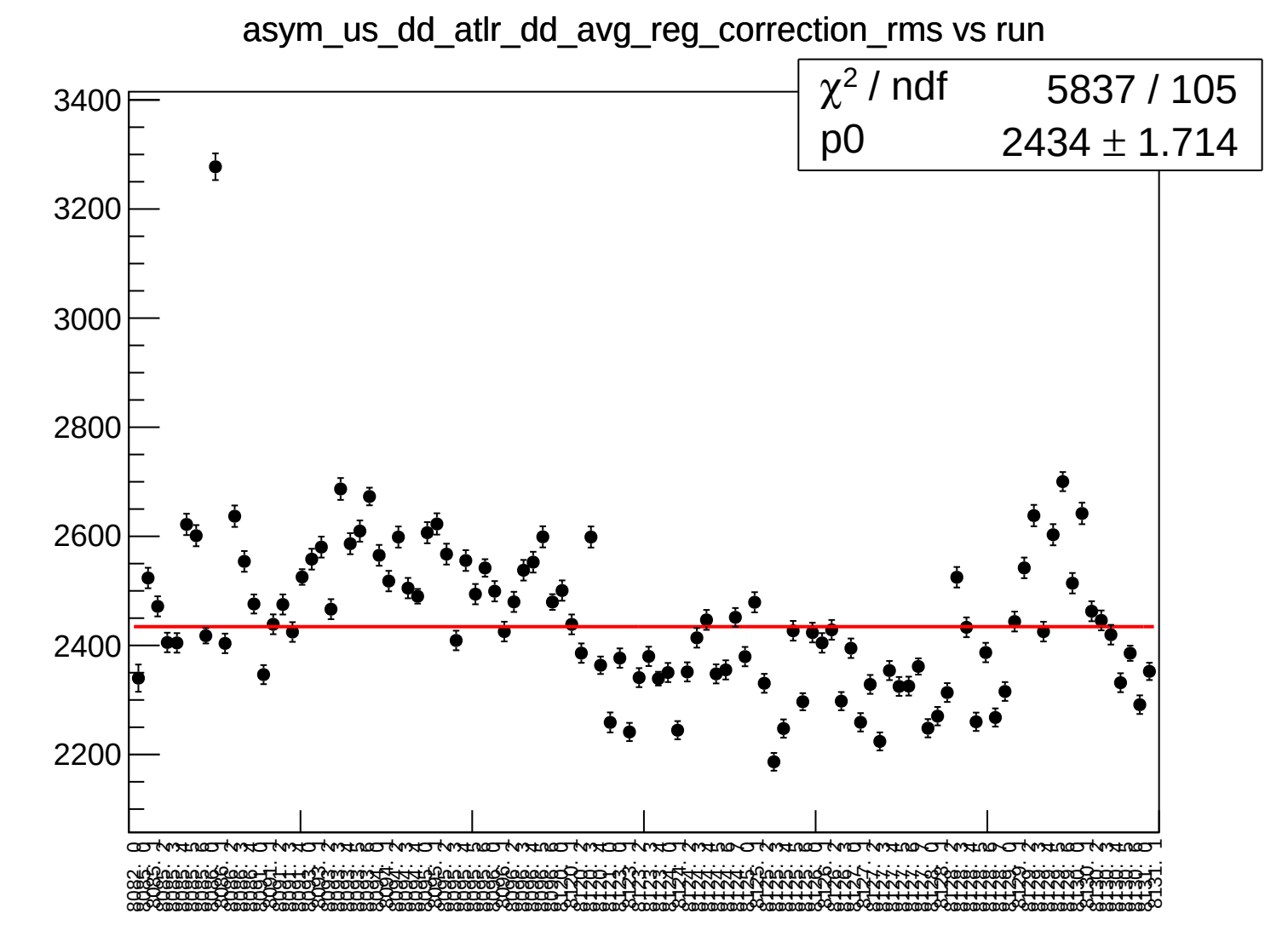

reg_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 94.3 / 105
p0 1912 ± 1698
pull
Entries 106
Mean −1730
Std Dev 0

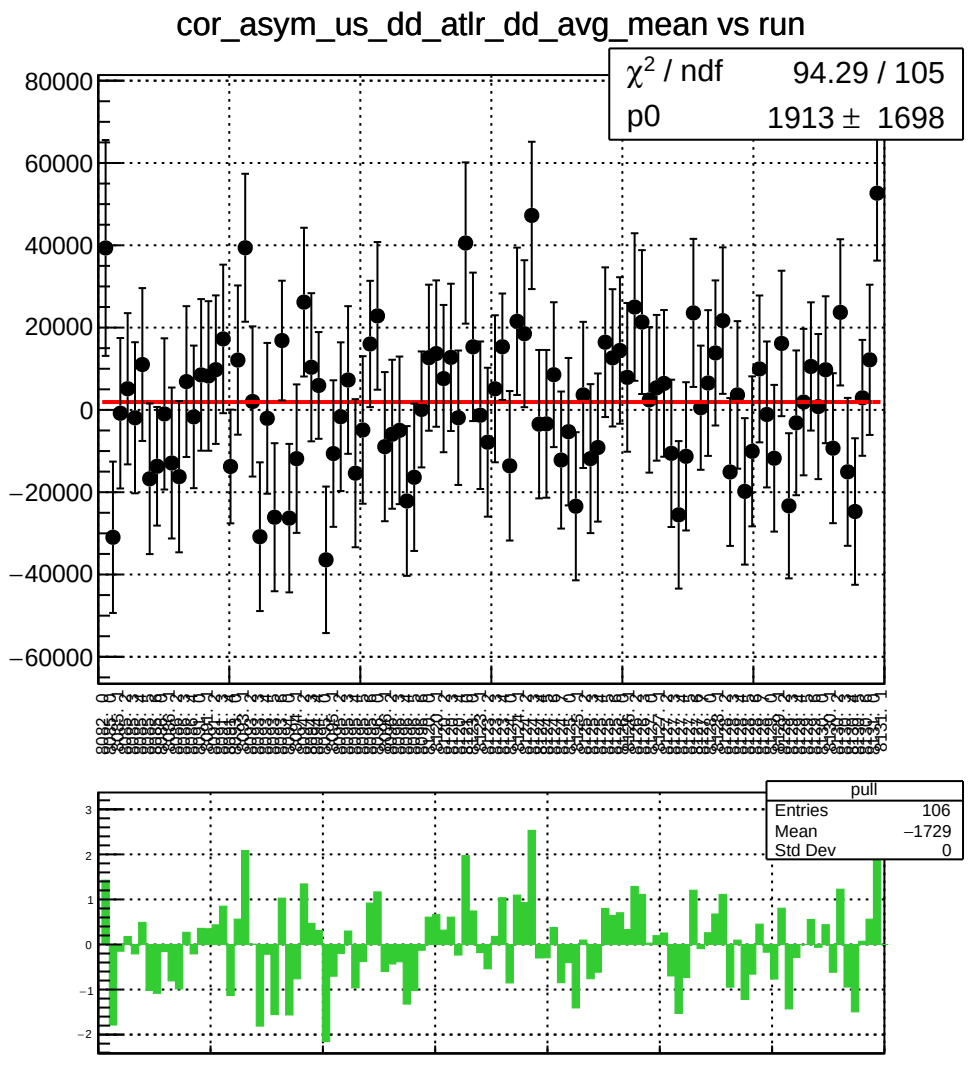

pull1D
Entries 106
Mean −0.001653
Std Dev 0.9432

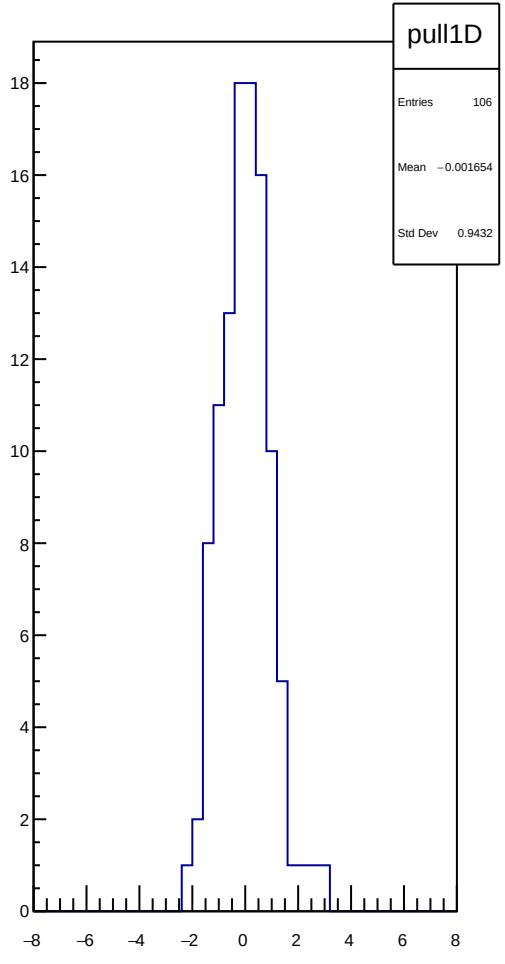

reg_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 263.6 / 105
p0 1707 ± 1.201
1780
1760
1740
1720
1700
1680
1660

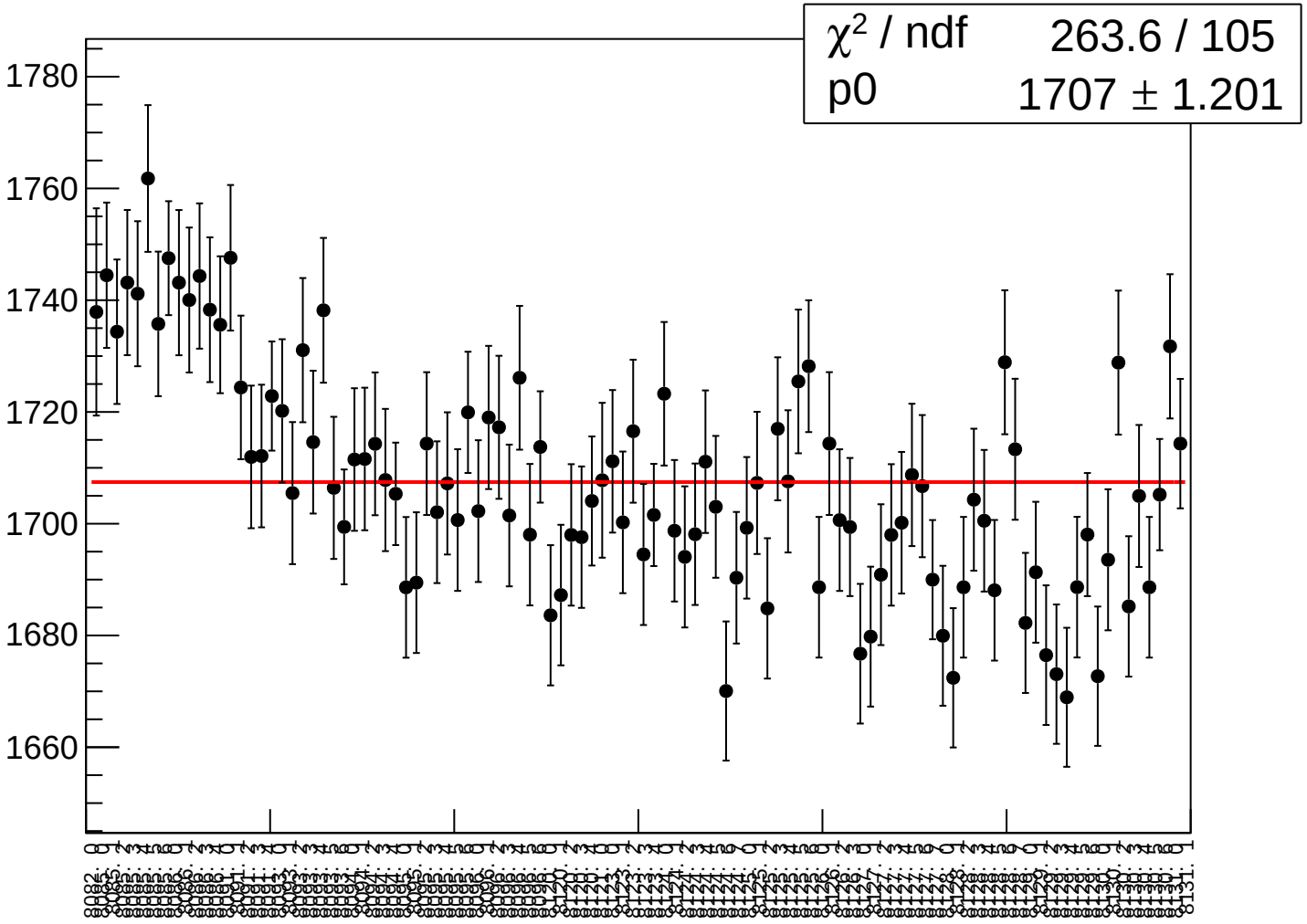

asym_us_dd_atlr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 76.51 / 105
p0 −3761 ± 2424
pull
Entries 106
Mean −40.72
Std Dev 0

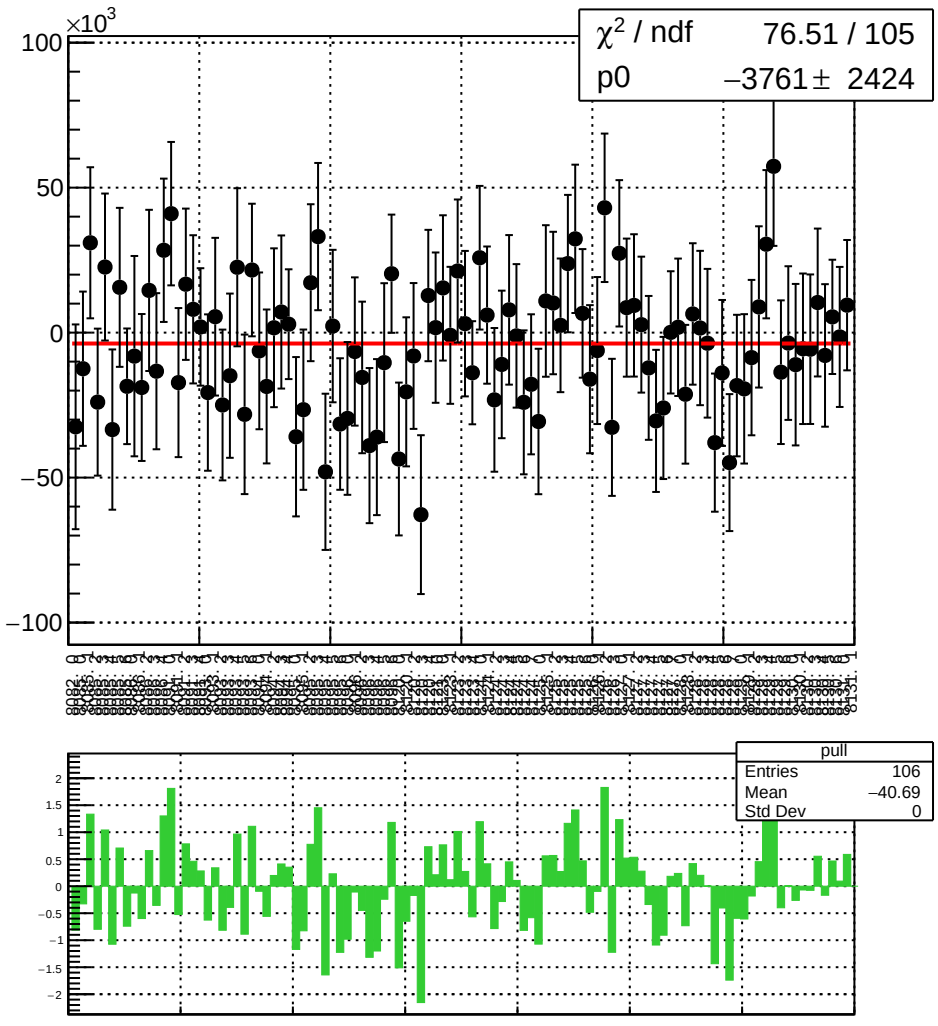

pull1D
Entries 106
Mean −0.009294
Std Dev 0.8496

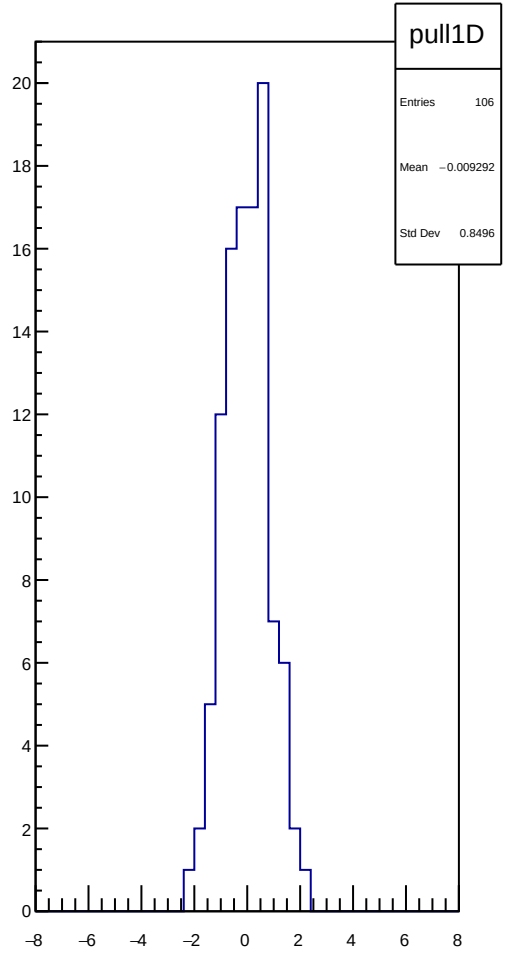

asym_us_dd_atlr_dd_avg_reg_correction_rms vs run
χ² / ndf 5837 / 105
p0 2434 ± 1.714
3400
3200
3000
2800
2600
2400
2200

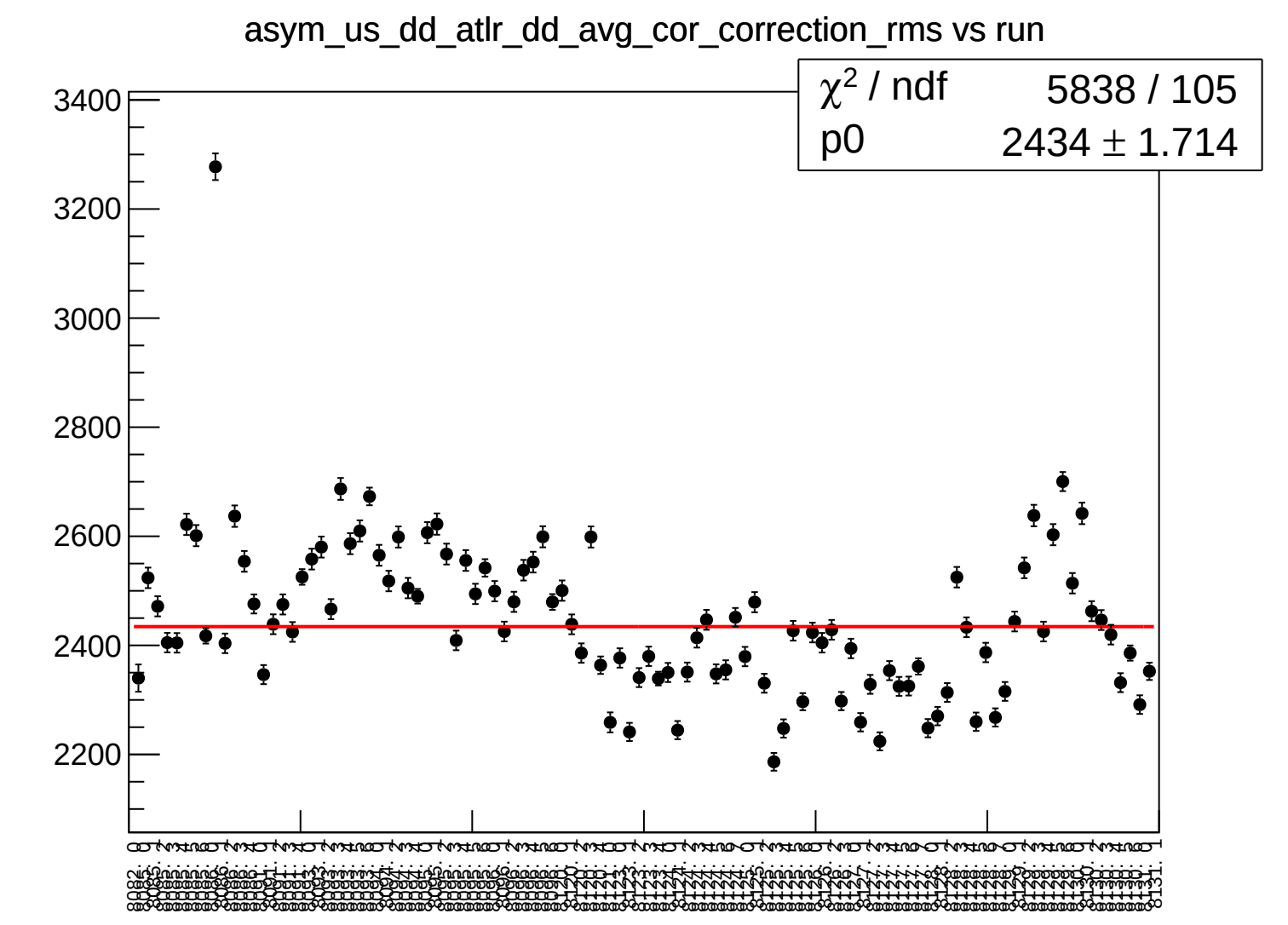

cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 94.29 / 105
p0 1913 ± 1698
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean −1729
Std Dev 0
3
2
1
0
−1
−2

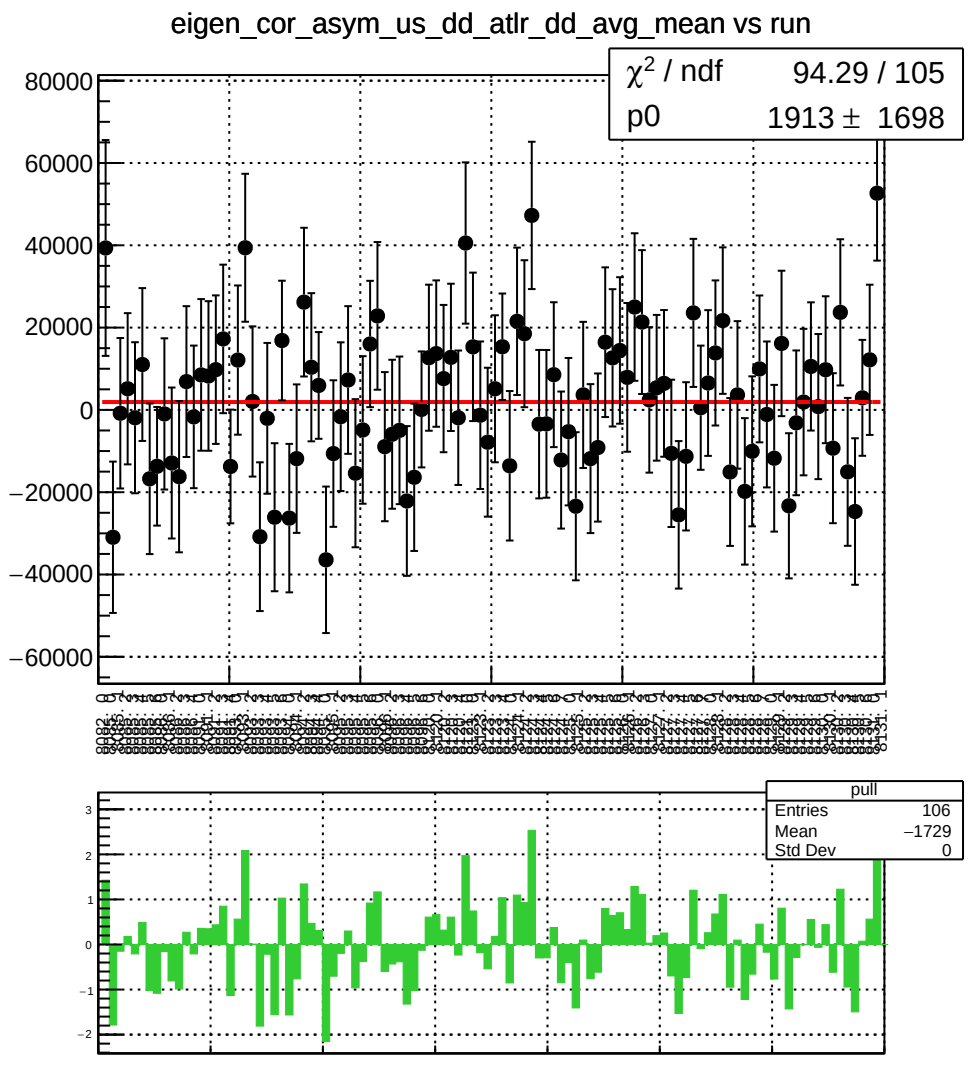

pull1D
Entries 106
Mean −0.001654
Std Dev 0.9432
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

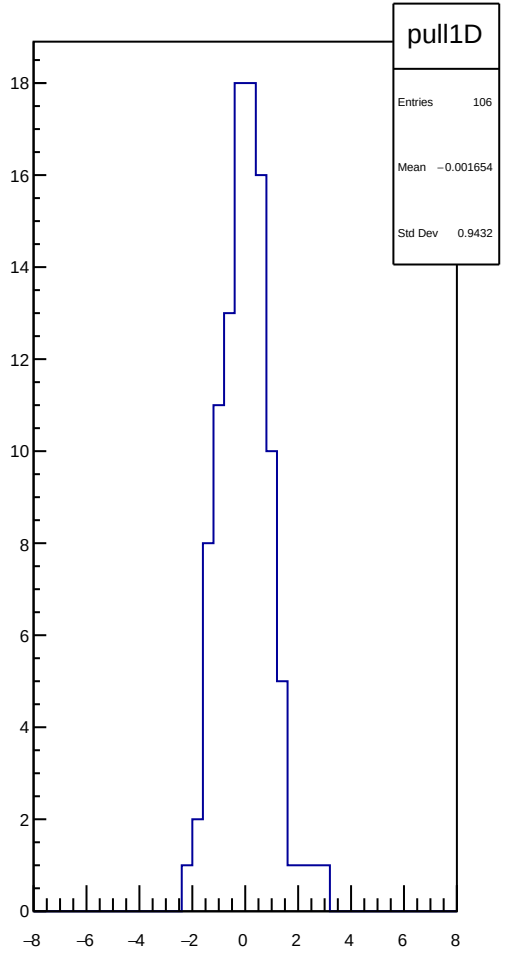

cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 263.6 / 105
p0 1707 ± 1.201
1780
1760
1740
1720
1700
1680
1660

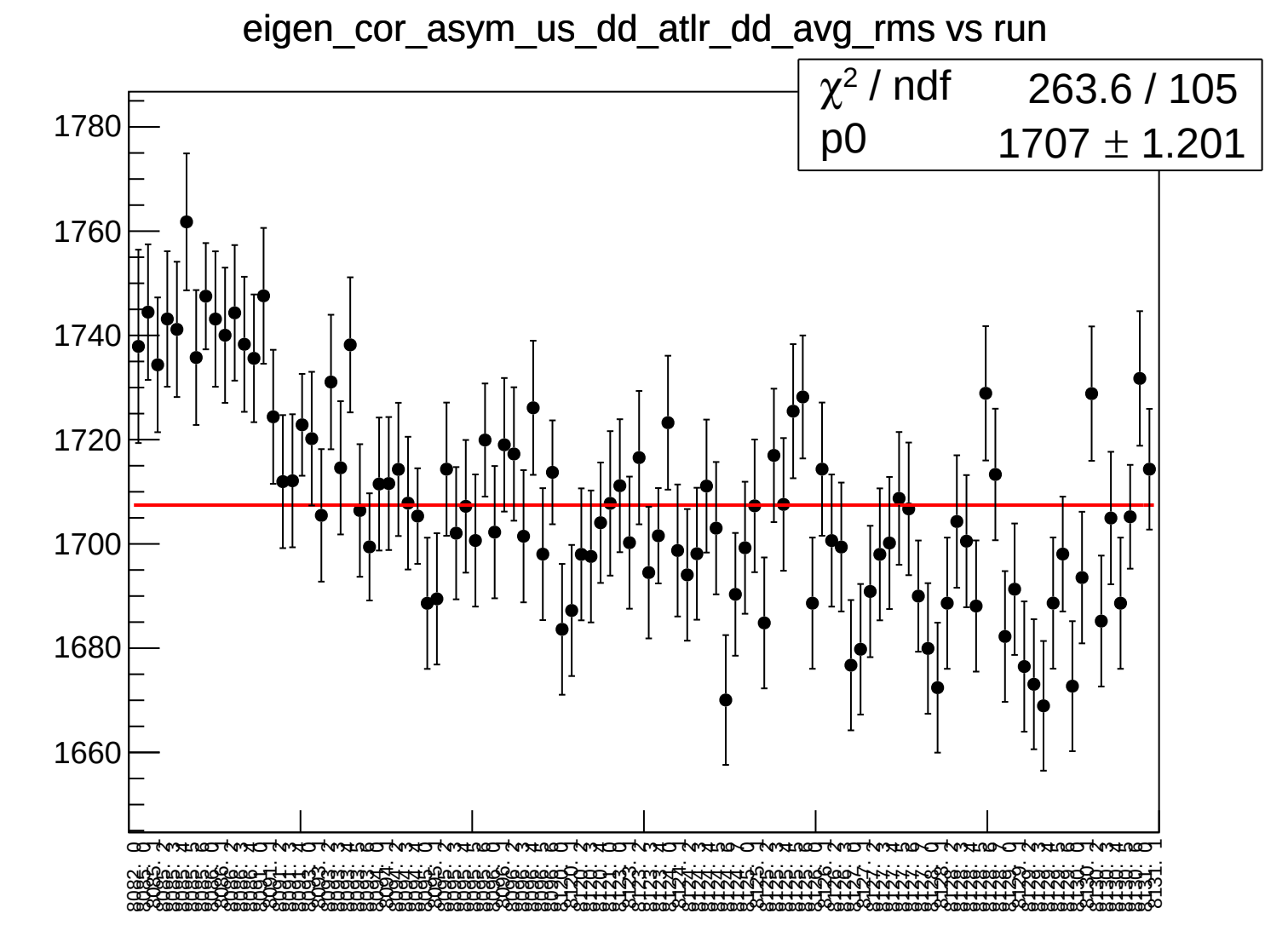

asym_us_dd_atlr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 76.51 / 105
p0 −3761 ± 2424
100
50
0
−50
−100
pull
Entries 106
Mean −40.69
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

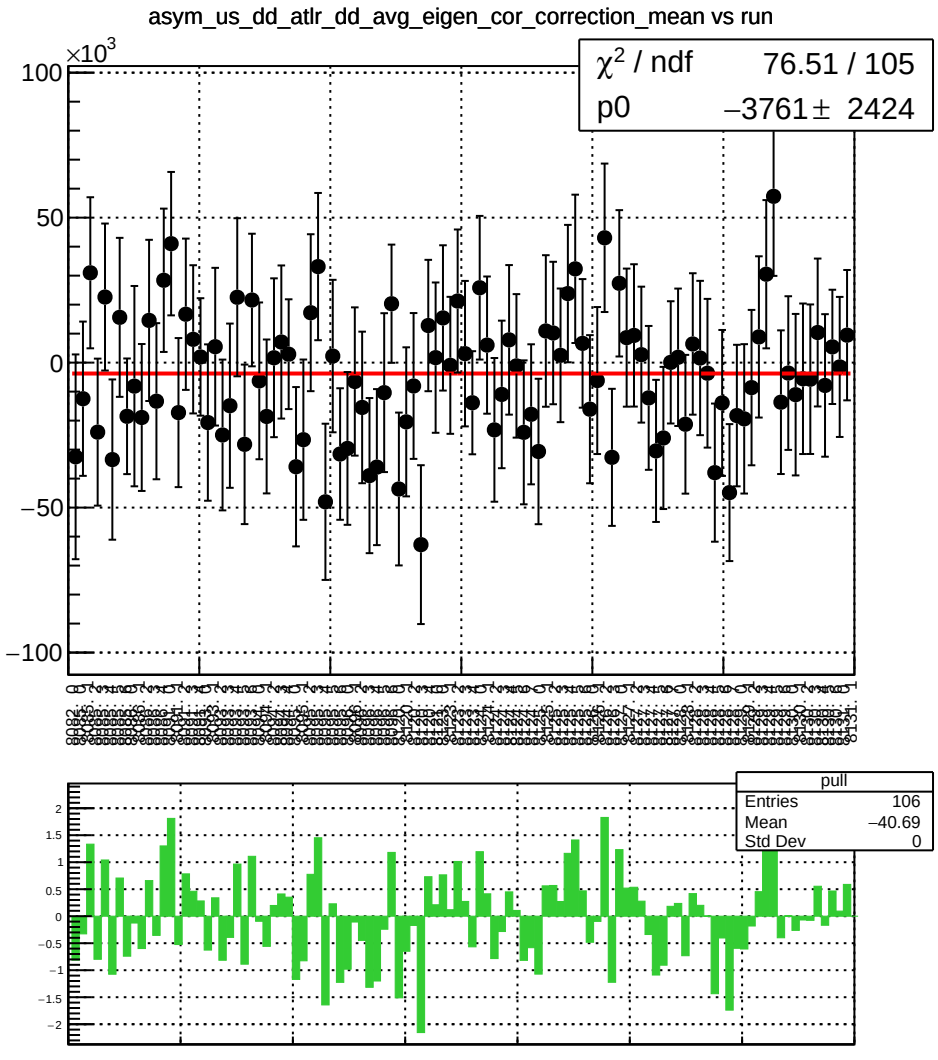

pull1D
Entries 106
Mean −0.009292
Std Dev 0.8496
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

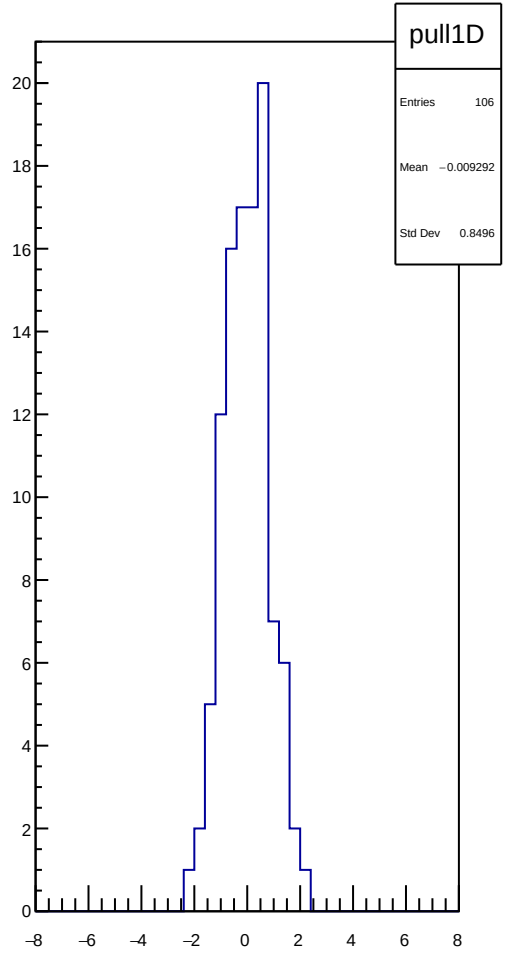

asym_us_dd_atlr_dd_avg_cor_correction_rms vs run
χ² / ndf 5838 / 105
p0 2434 ± 1.714
3400
3200
3000
2800
2600
2400
2200

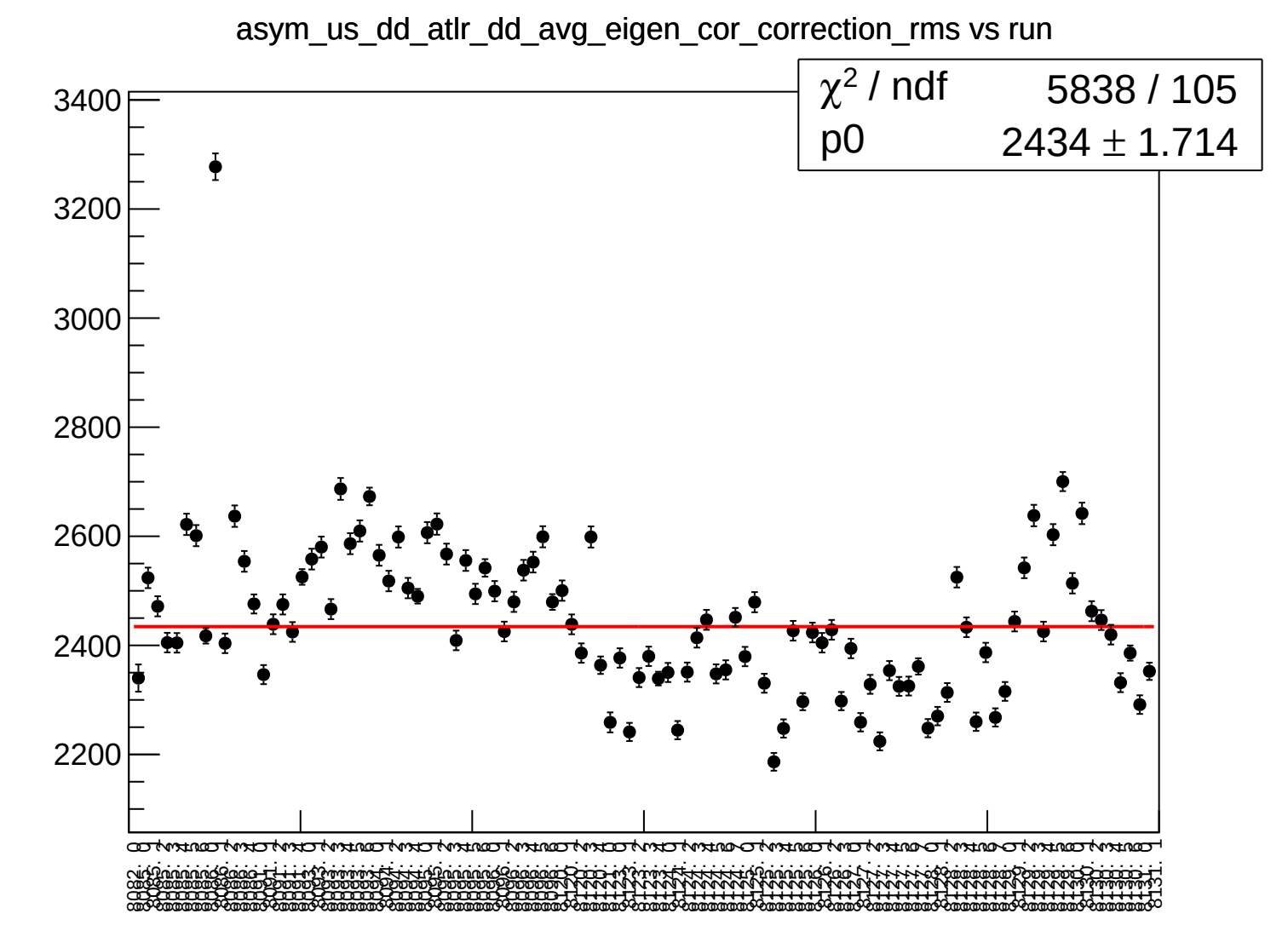

eigen_cor_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 94.29 / 105
p0 1913 ± 1698
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean −1729
Std Dev 0
3
2
1
0
−1
−2

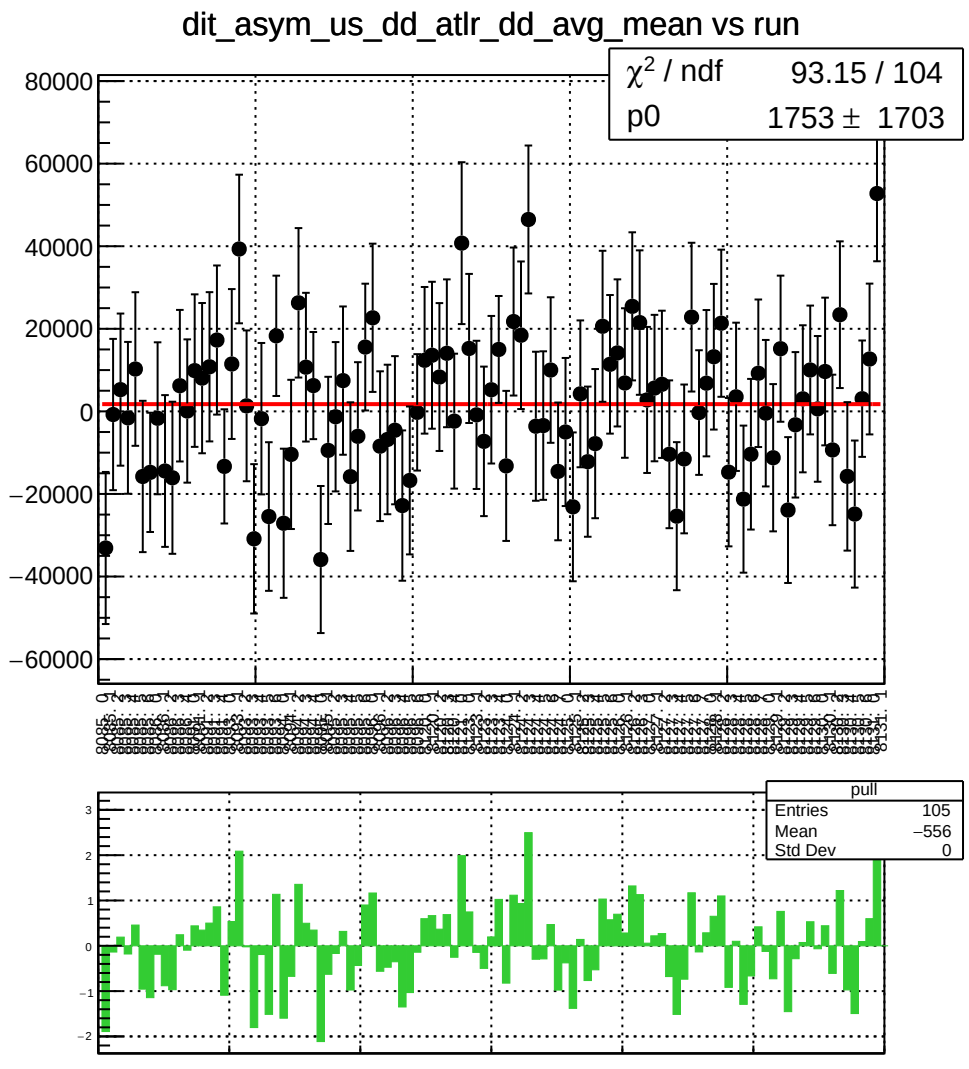

pull1D
Entries 106
Mean −0.001654
Std Dev 0.9432
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

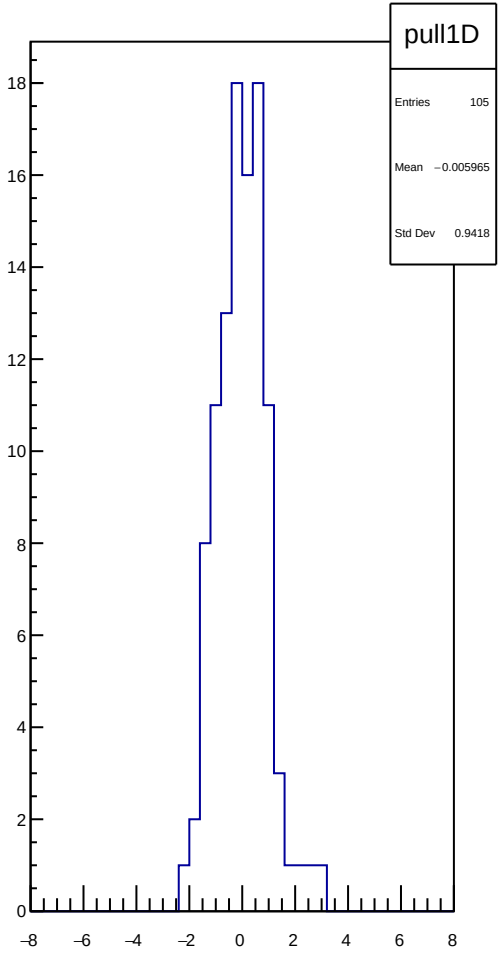

eigen_cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 263.6 / 105
p0 1707 ± 1.201
1780
1760
1740
1720
1700
1680
1660

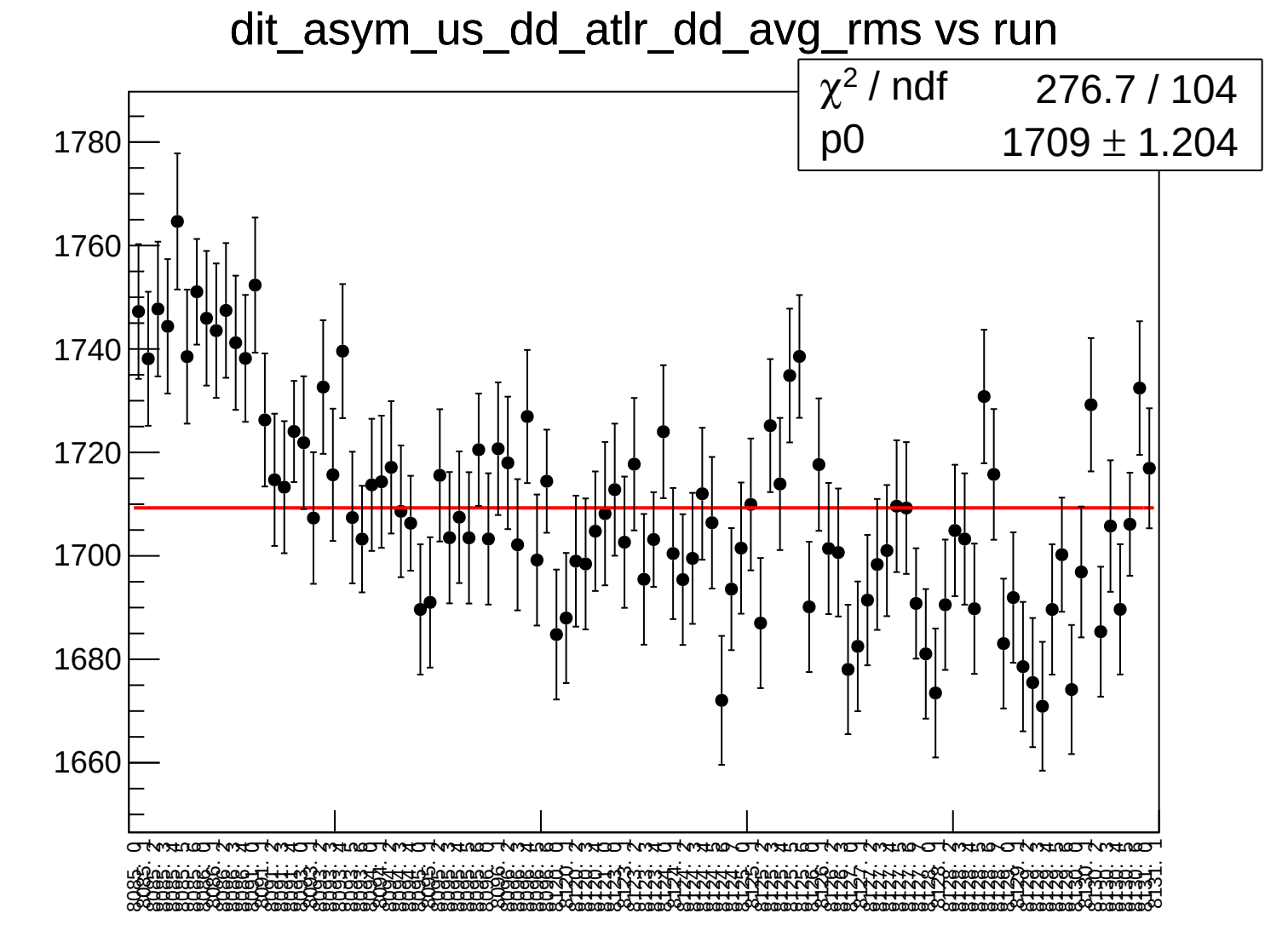

asym_us_dd_atlr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 76.51 / 105
p0 −3761 ± 2424
100
50
0
−50
−100
pull
Entries 106
Mean −40.69
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

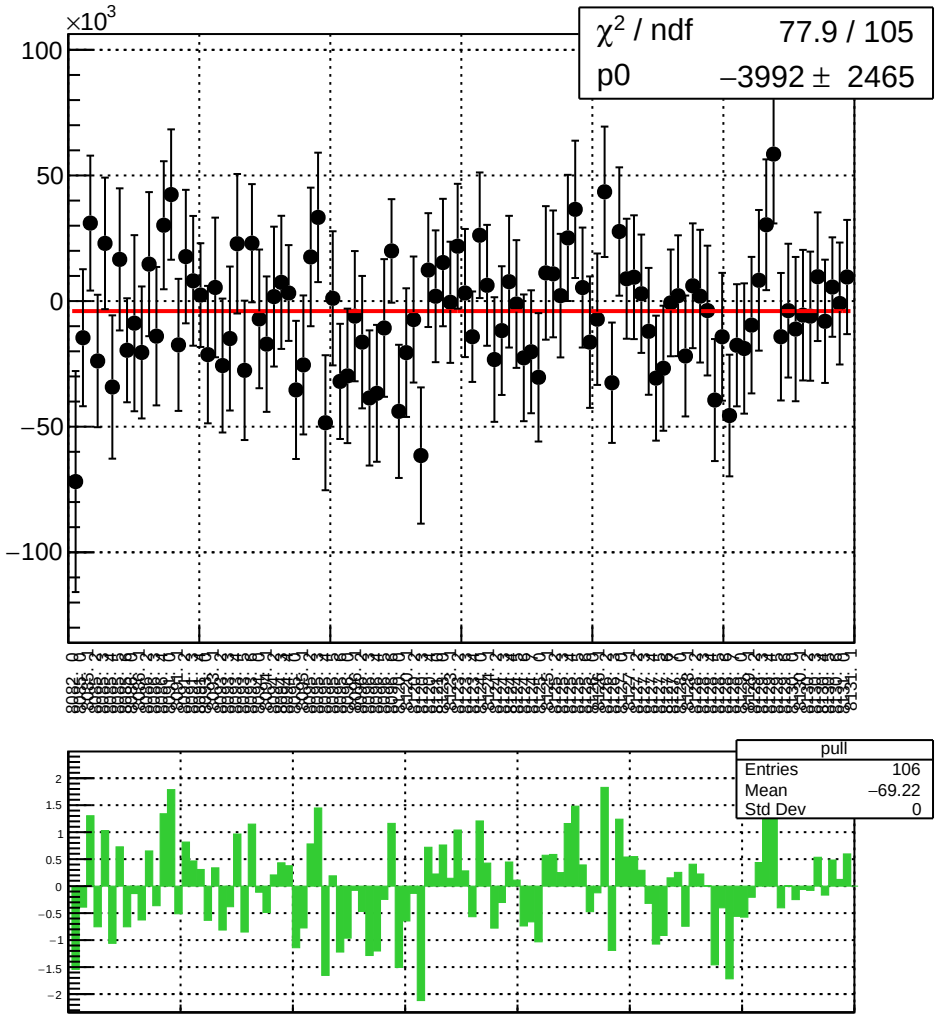

pull1D
Entries 106
Mean −0.009292
Std Dev 0.8496
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

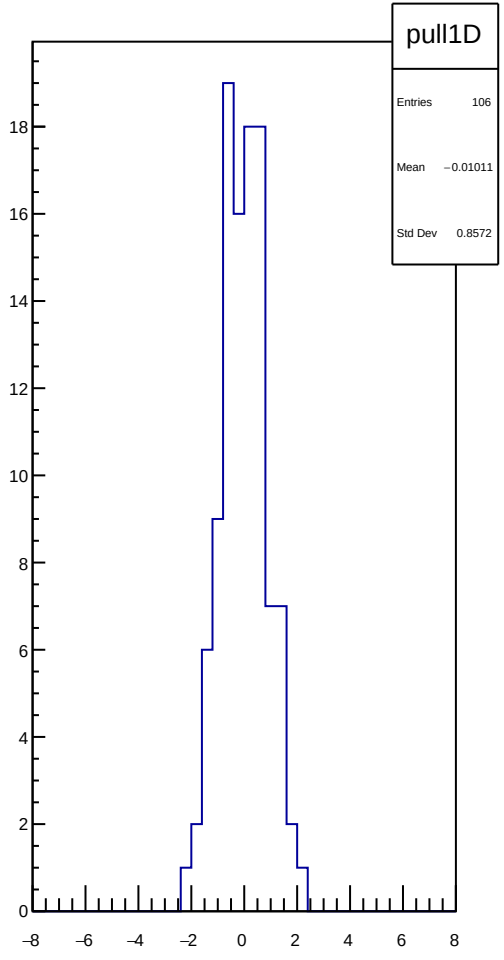

asym_us_dd_atlr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 5838 / 105
p0 2434 ± 1.714
3400
3200
3000
2800
2600
2400
2200

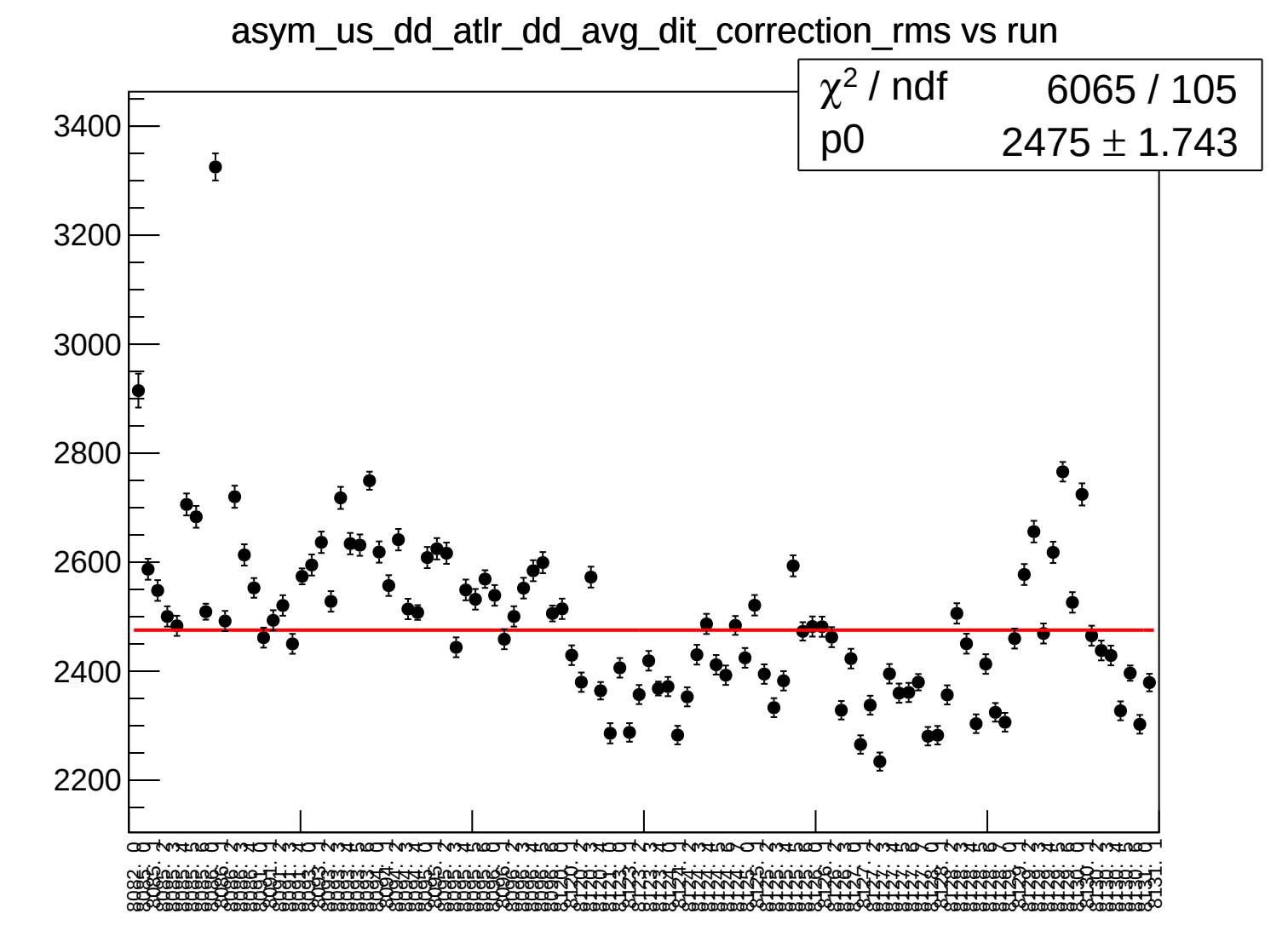

dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 93.15 / 104
p0 1753 ± 1703
pull
Entries 105
Mean −556
Std Dev 0

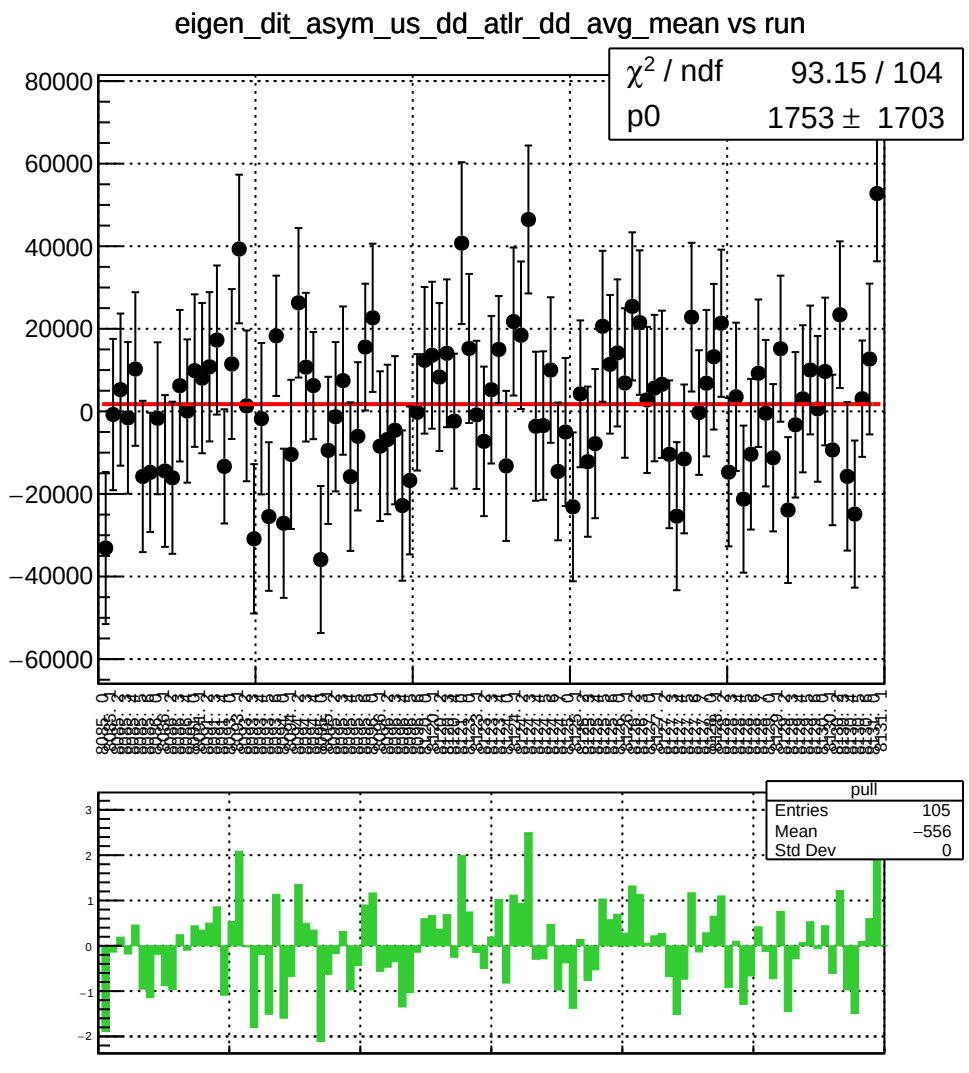

pull1D
Entries 105
Mean −0.005965
Std Dev 0.9418

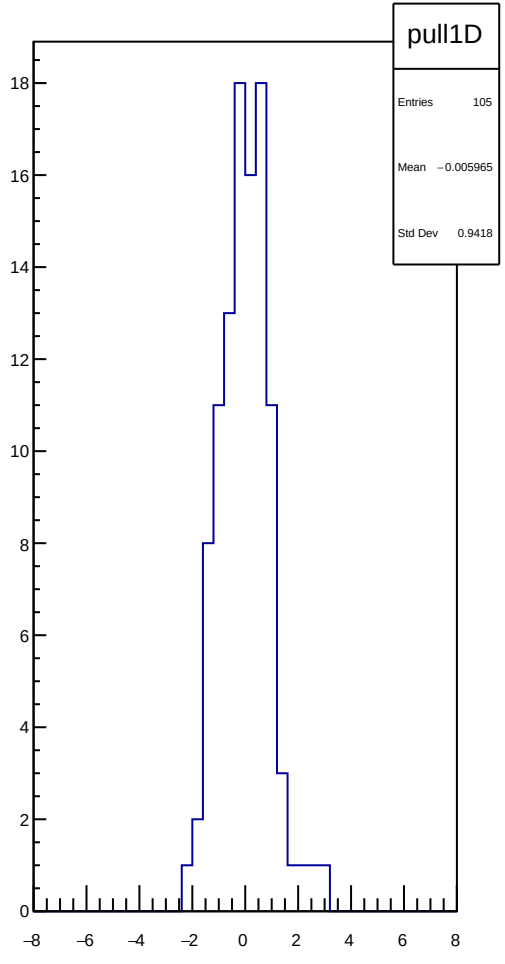

dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 276.7 / 104
p0 1709 ± 1.204
1780
1760
1740
1720
1700
1680
1660

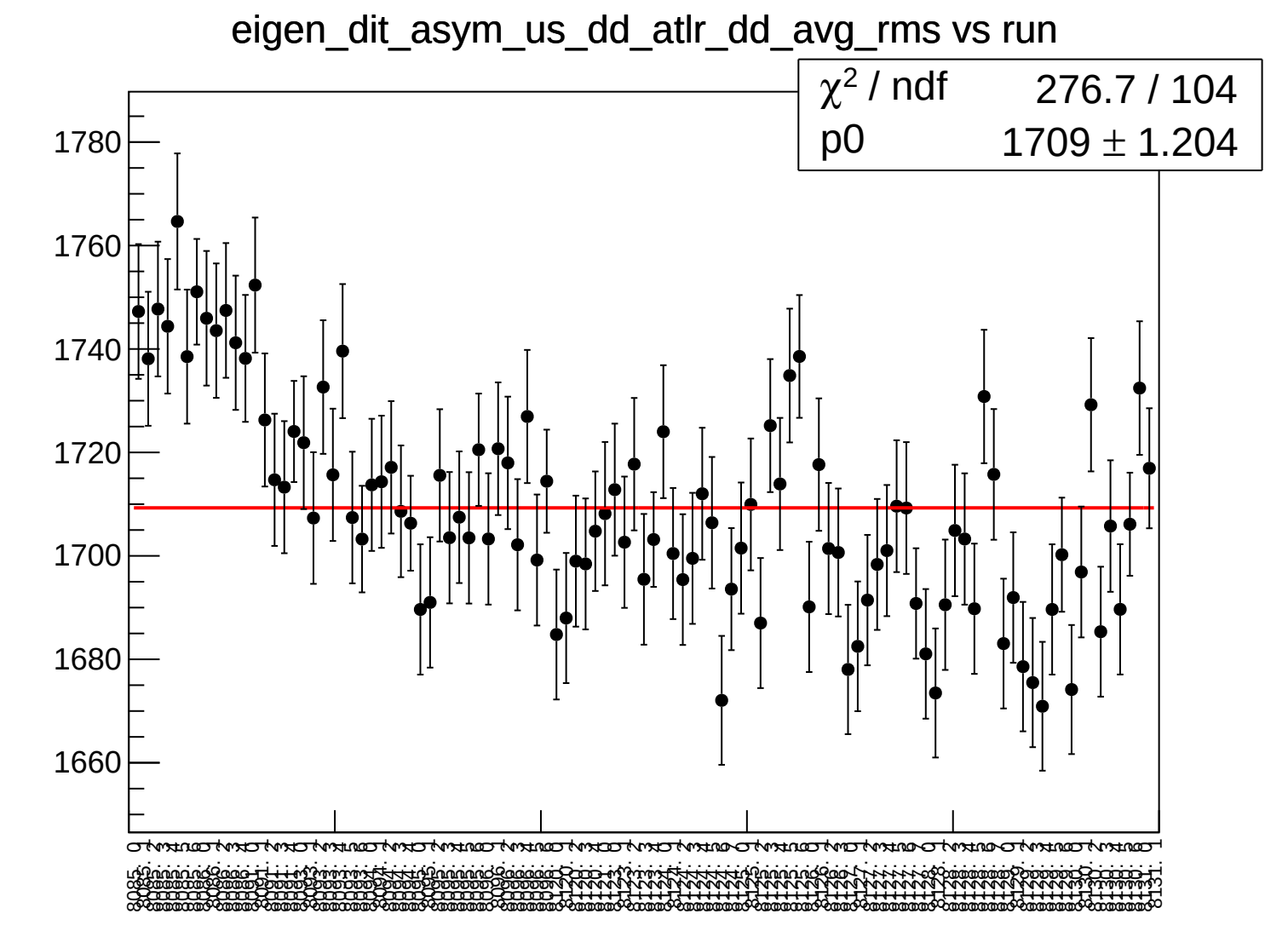

asym_us_dd_atlr_dd_avg_dit_correction_mean vs run
×10^3
χ² / ndf 77.9 / 105
p0 −3992 ± 2465
100
50
0
−50
−100
pull
Entries 106
Mean −69.22
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

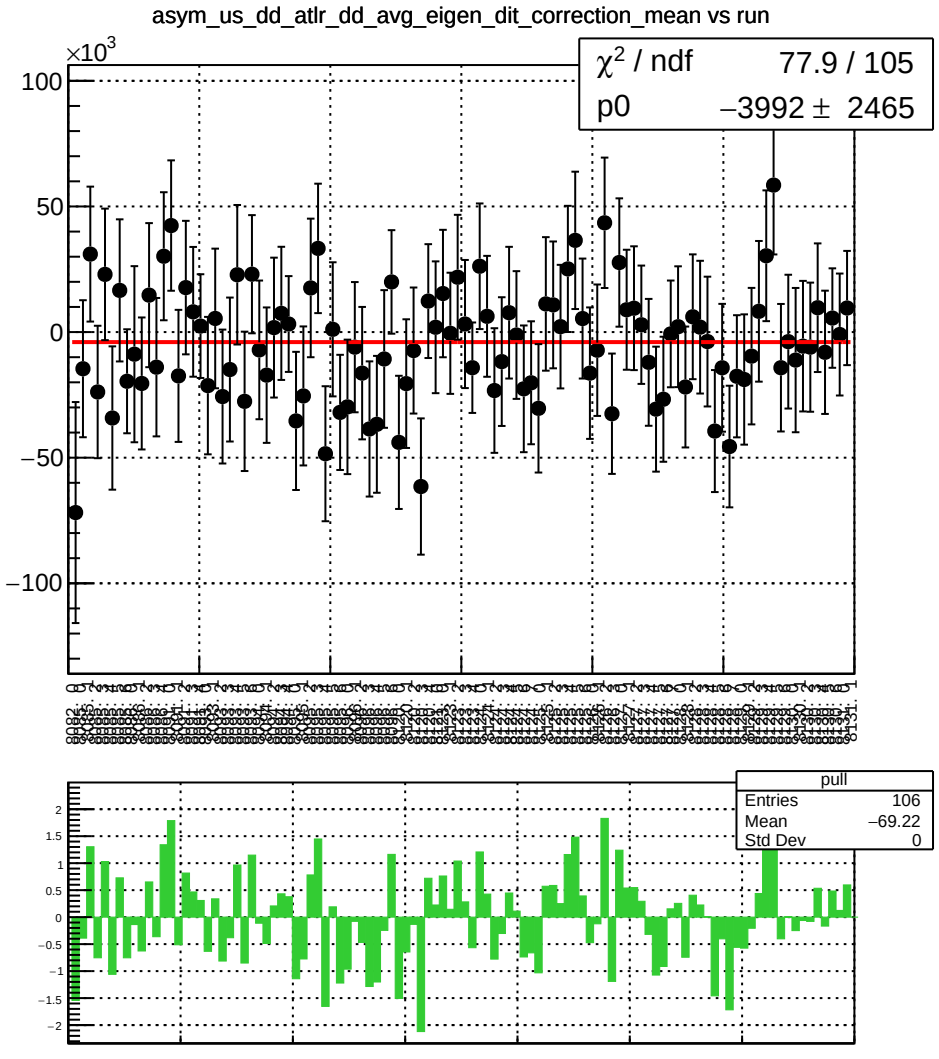

pull1D
Entries 106
Mean −0.01011
Std Dev 0.8572
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

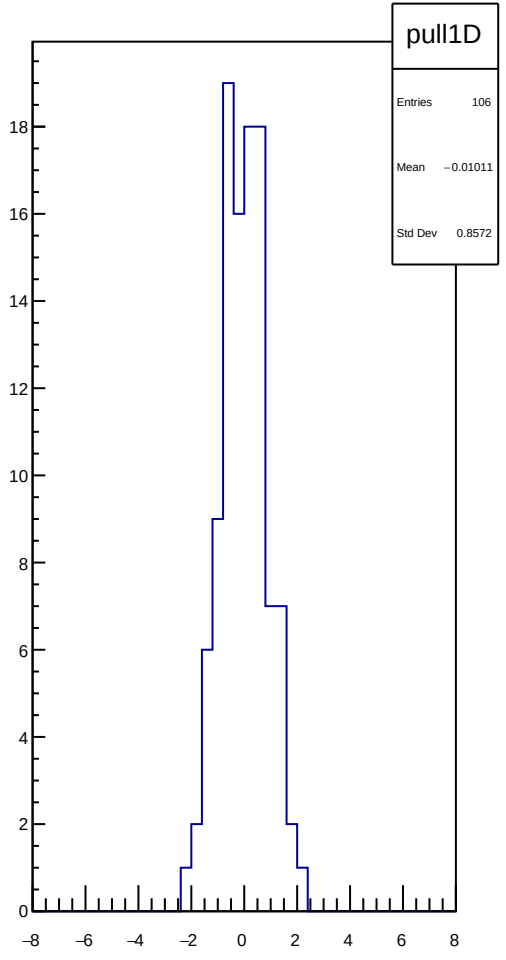

asym_us_dd_atlr_dd_avg_dit_correction_rms vs run
χ² / ndf 6065 / 105
p0 2475 ± 1.743
3400
3200
3000
2800
2600
2400
2200

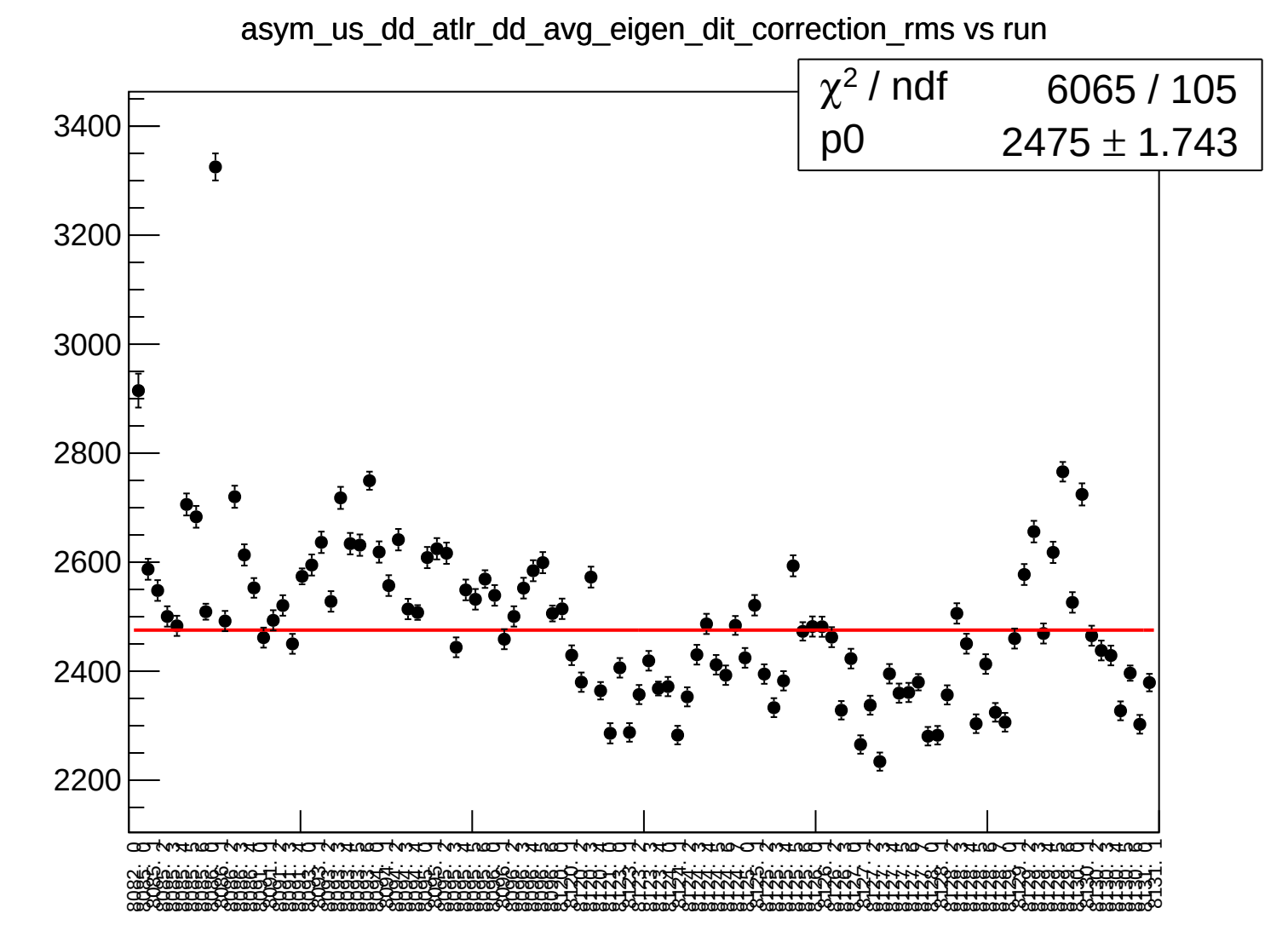

eigen_dit_asym_us_dd_atlr_dd_avg_mean vs run
χ² / ndf 93.15 / 104
p0 1753 ± 1703
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean −556
Std Dev 0
3
2
1
0
−1
−2

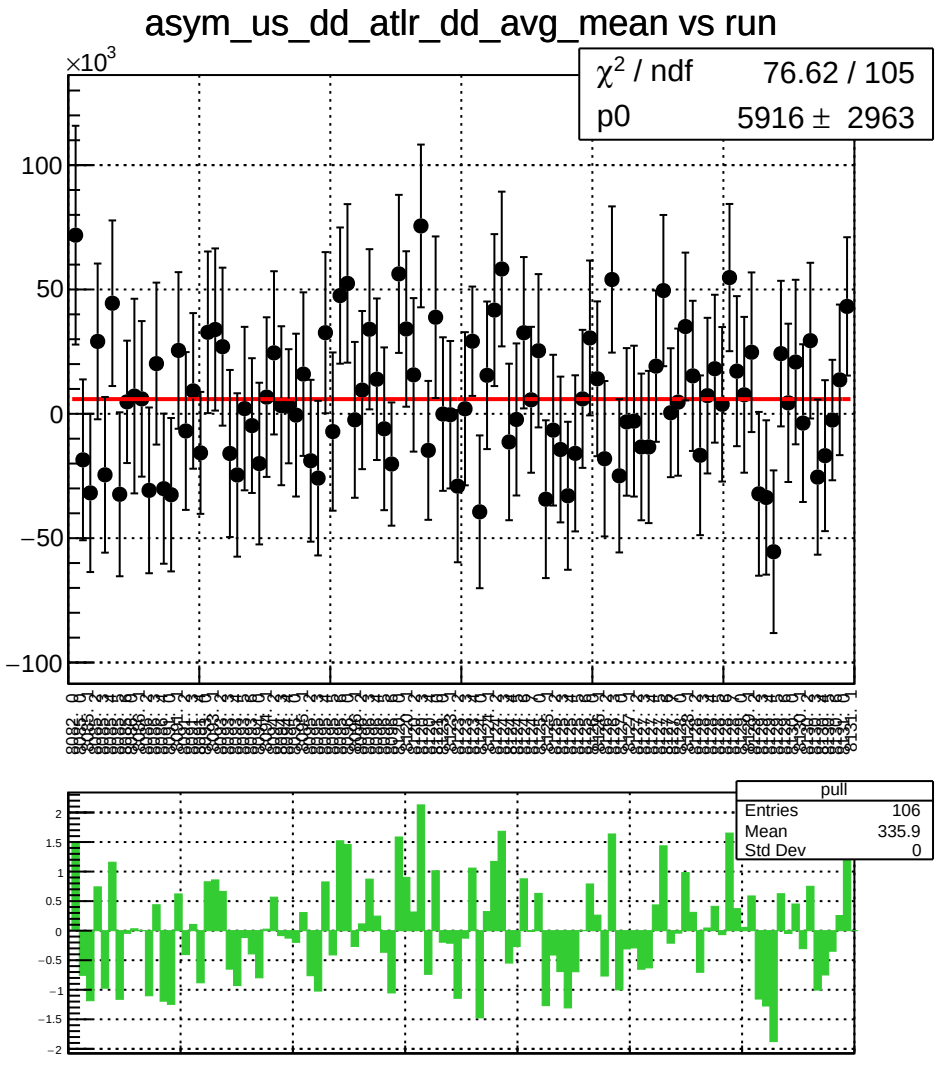

pull1D
Entries 105
Mean −0.005965
Std Dev 0.9418
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

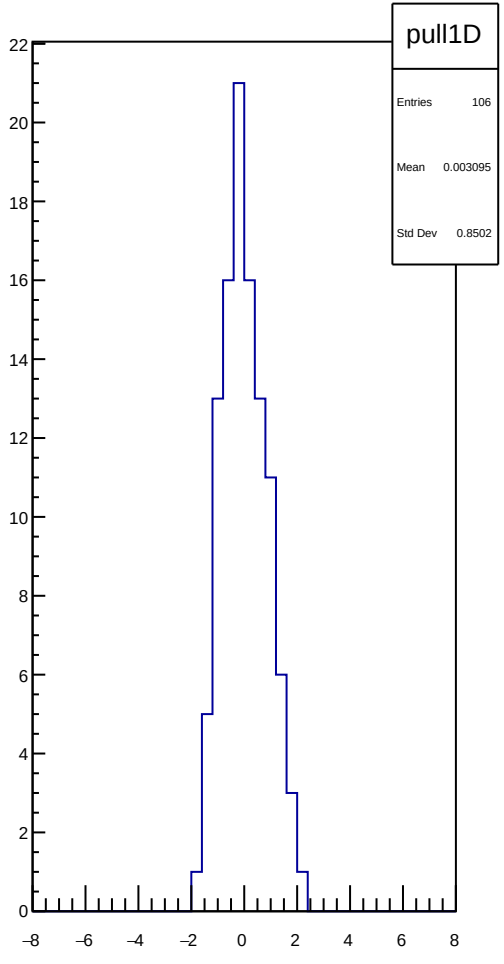

eigen_dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 276.7 / 104
p0 1709 ± 1.204
1780
1760
1740
1720
1700
1680
1660

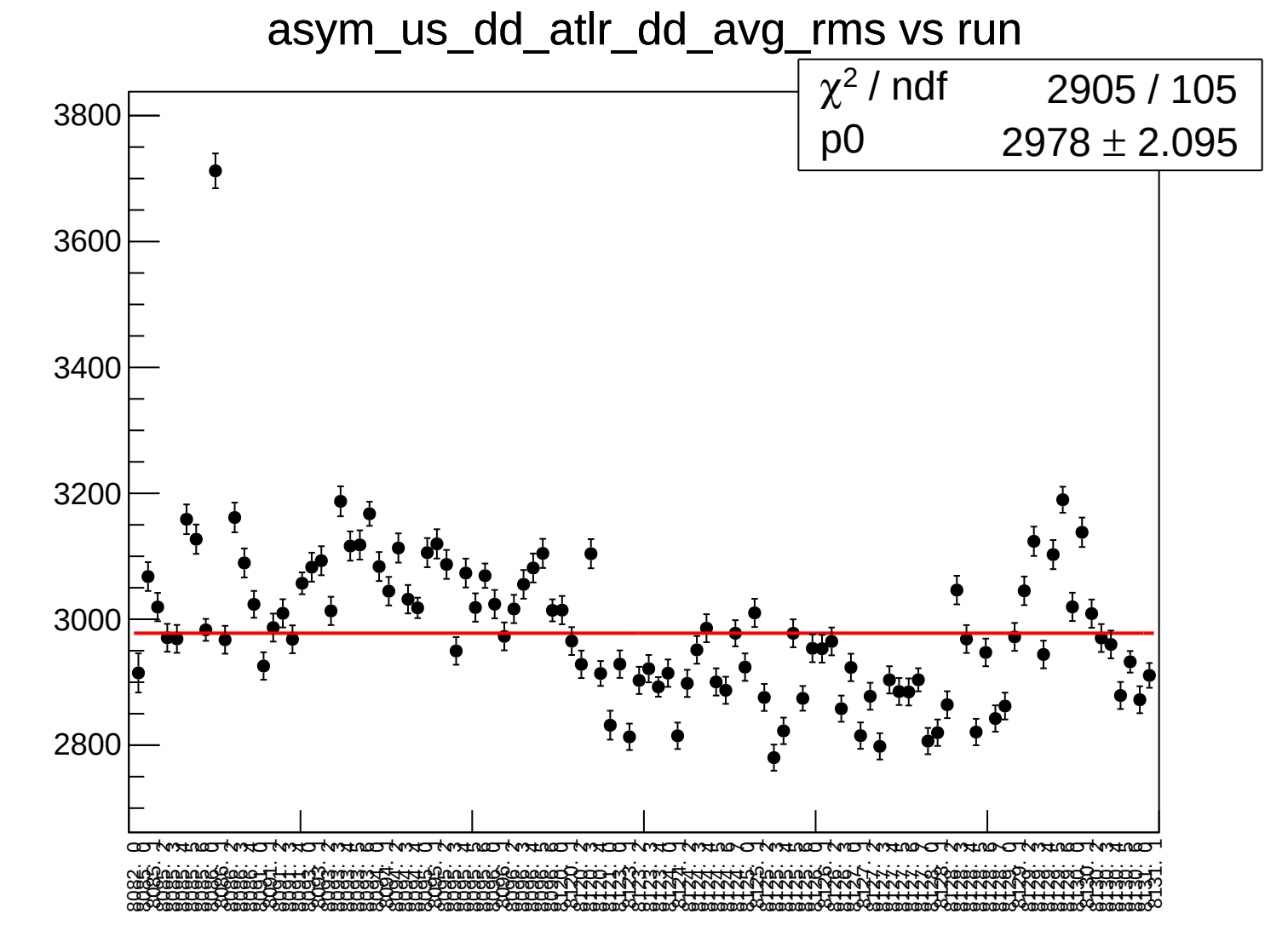

asym_us_dd_atlr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 77.9 / 105
p0 −3992 ± 2465
100
50
0
−50
−100
pull
Entries 106
Mean −69.22
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

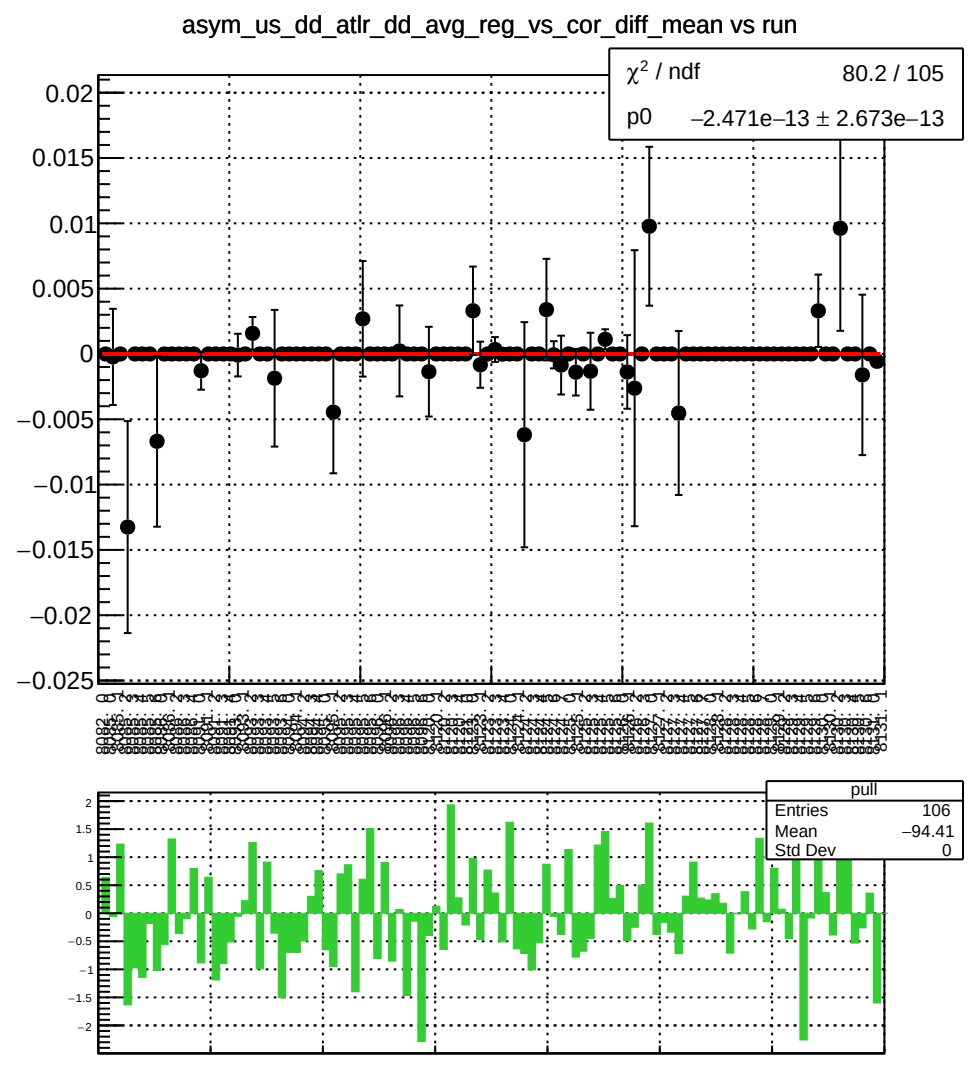

pull1D
Entries 106
Mean −0.01011
Std Dev 0.8572
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

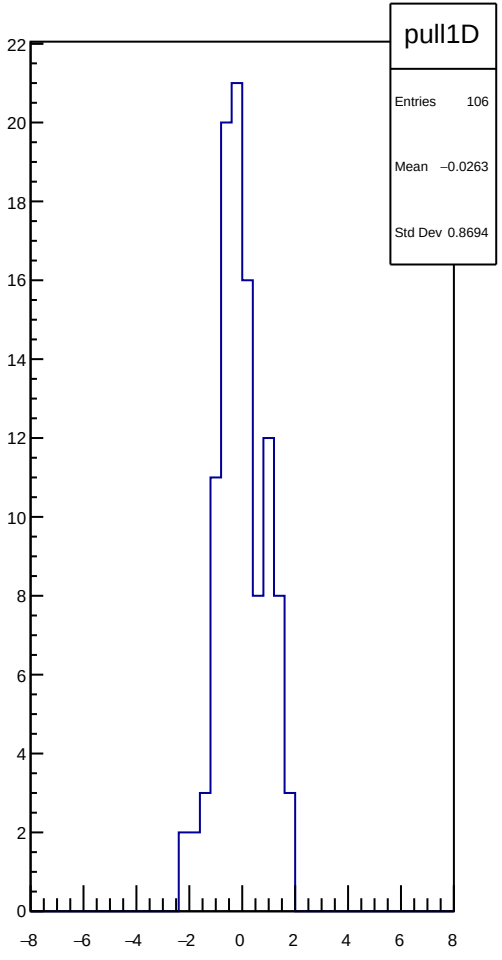

asym_us_dd_atlr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 6065 / 105
p0 2475 ± 1.743
3400
3200
3000
2800
2600
2400
2200

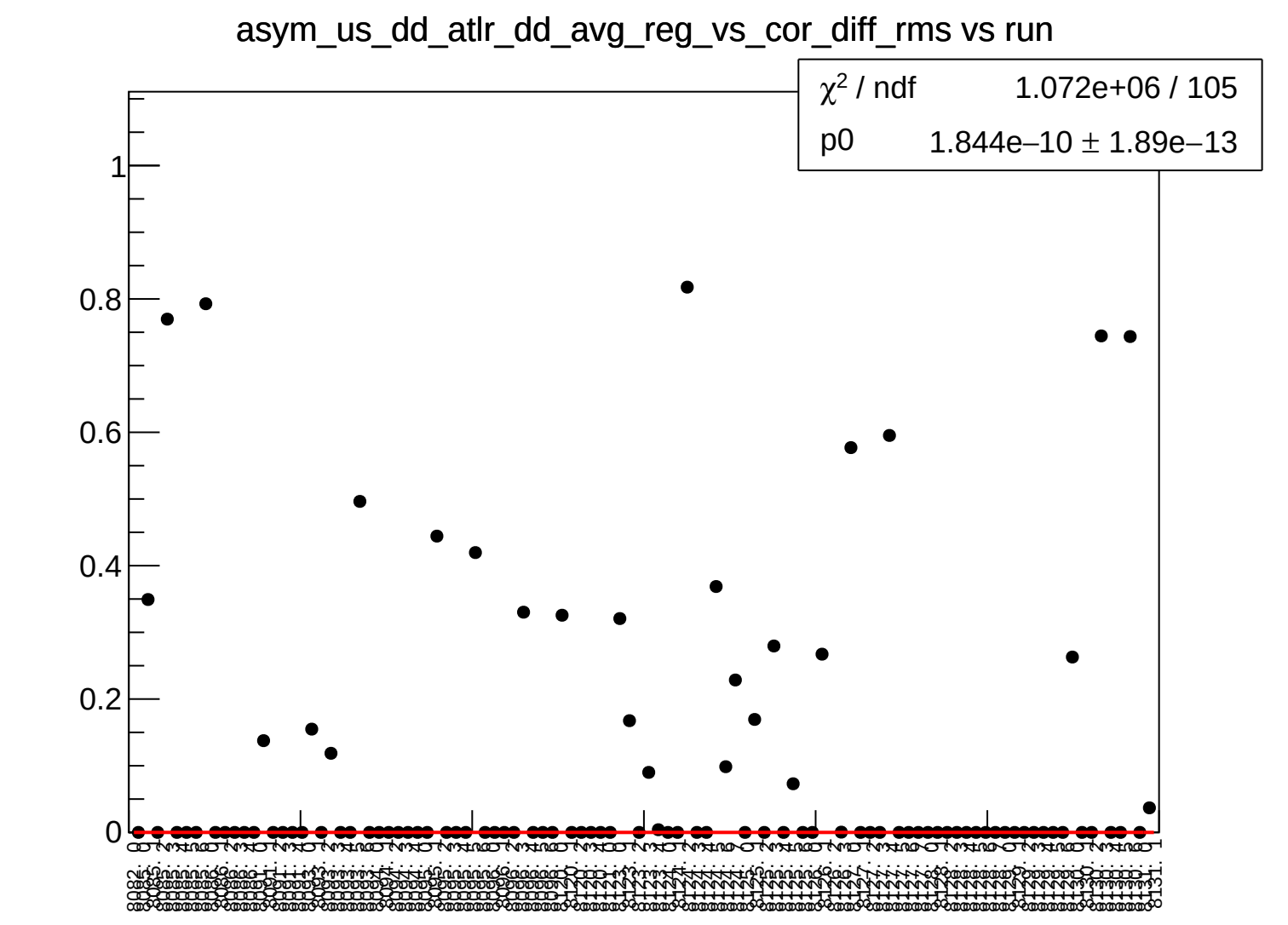

asym_us_dd_atlr_dd_avg_mean vs run
×10^3
χ^2 / ndf 76.62 / 105
p0 5916 ± 2963
100
50
0
−50
−100
pull
Entries 106
Mean 335.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

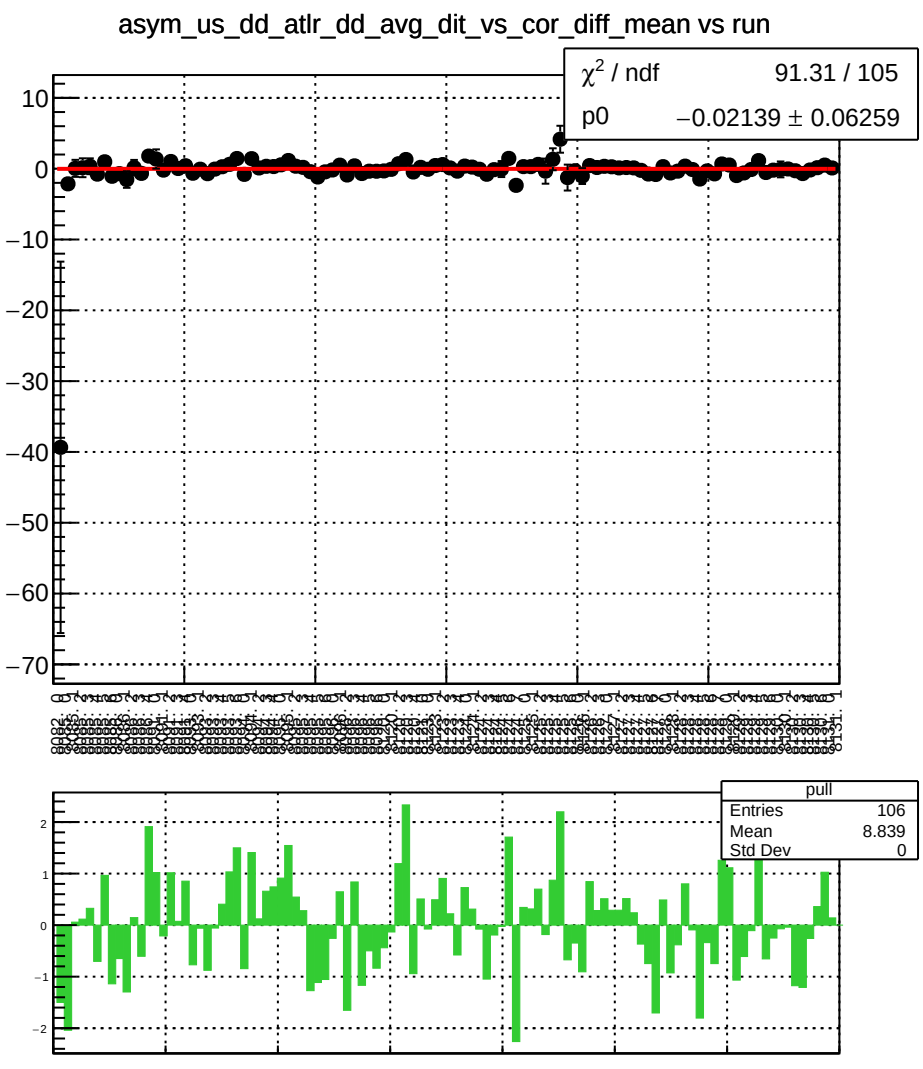

pull1D
Entries 106
Mean 0.003095
Std Dev 0.8502
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

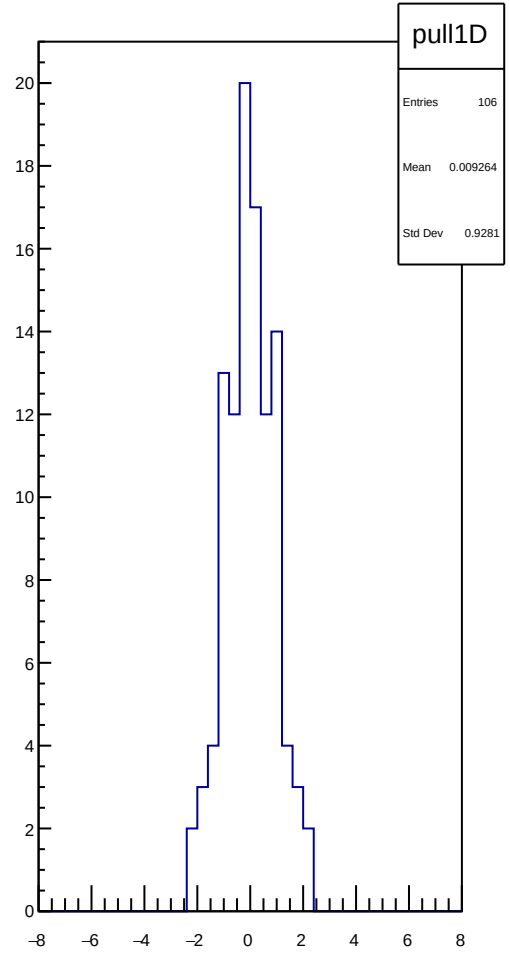

asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 2905 / 105
p0 2978 ± 2.095
3800
3600
3400
3200
3000
2800

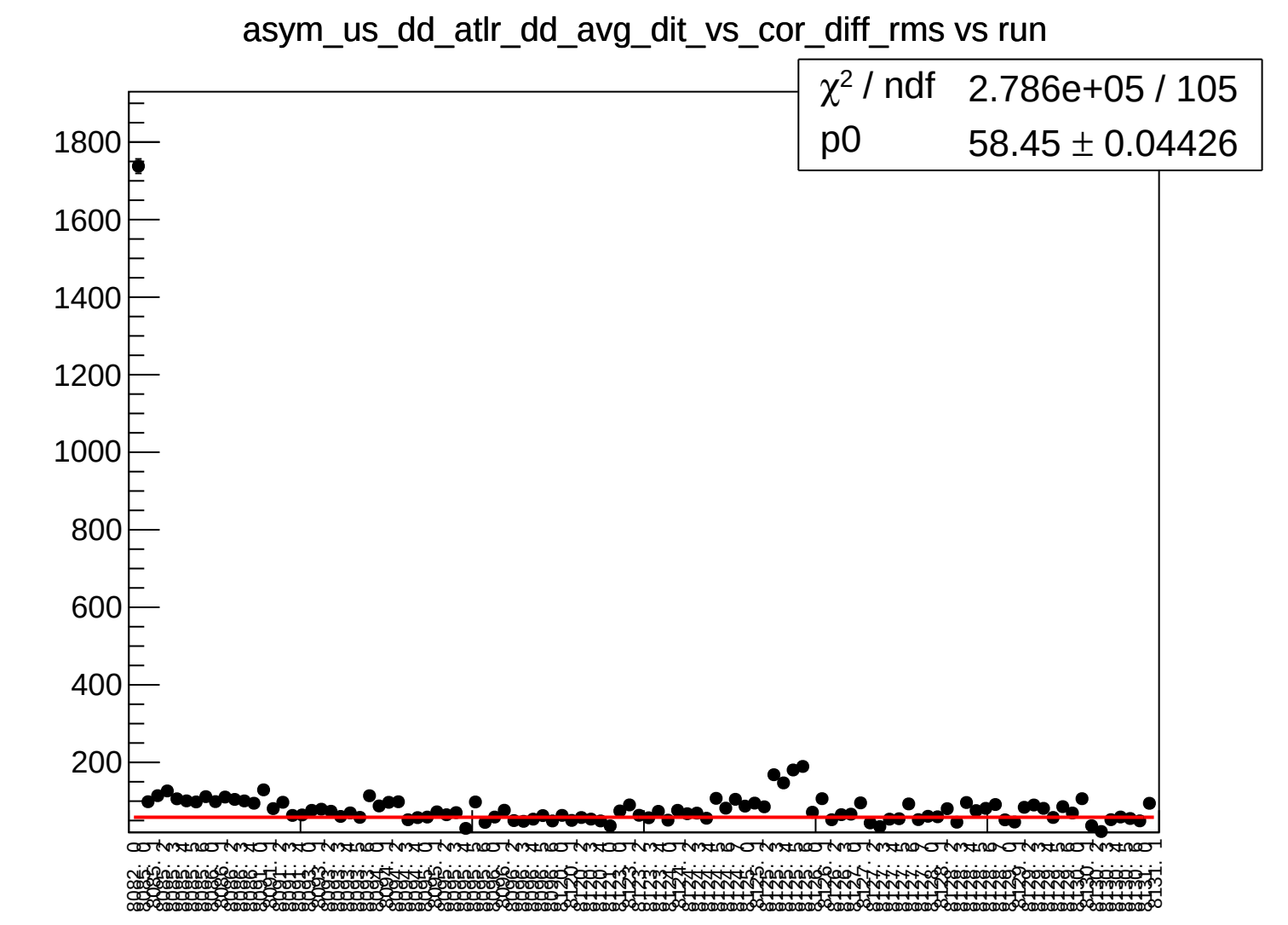

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 80.2 / 105
p0 −2.471e−13 ± 2.673e−13
pull
Entries 106
Mean −94.41
Std Dev 0

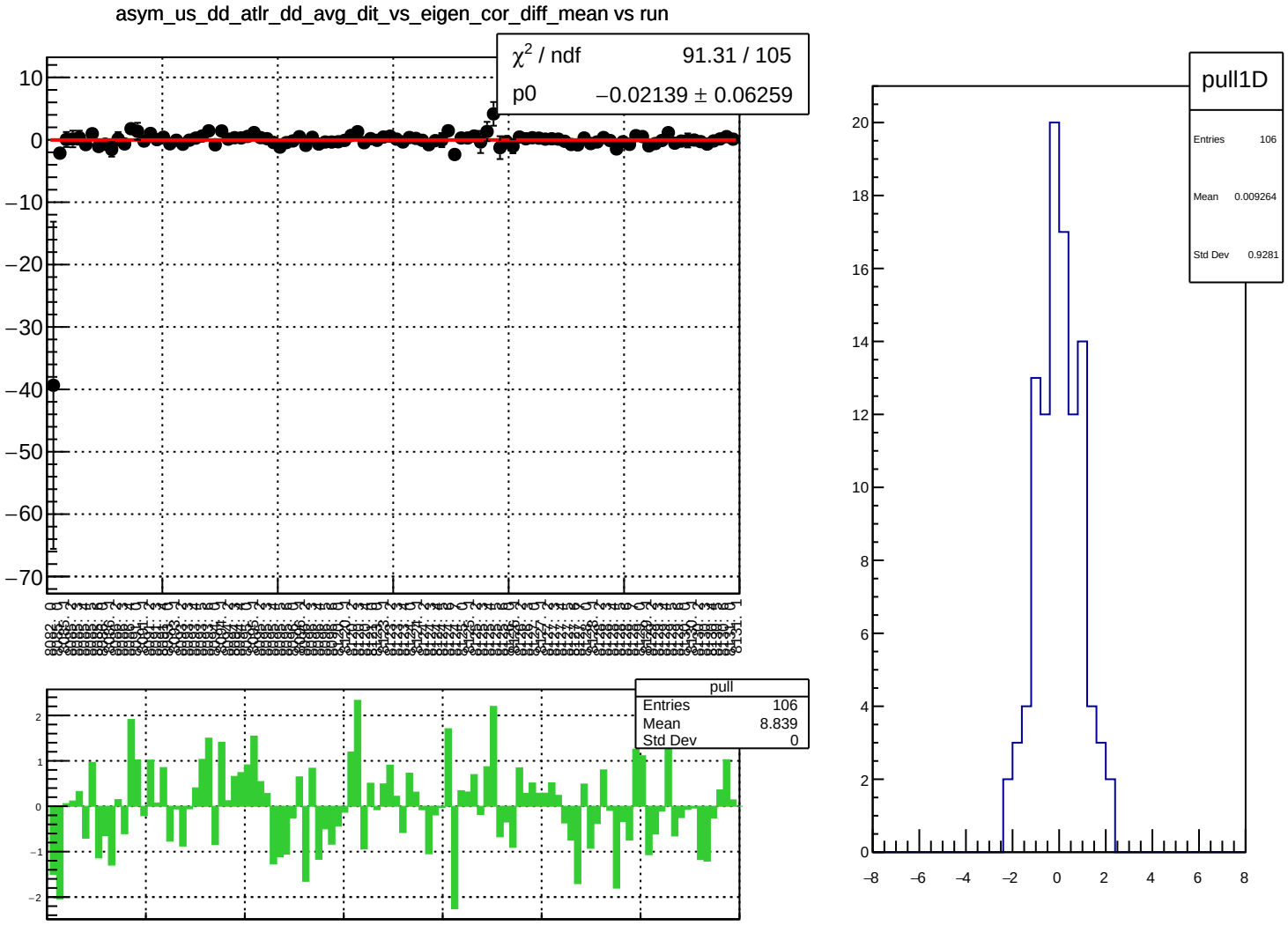

pull1D
Entries 106
Mean −0.0263
Std Dev 0.8694

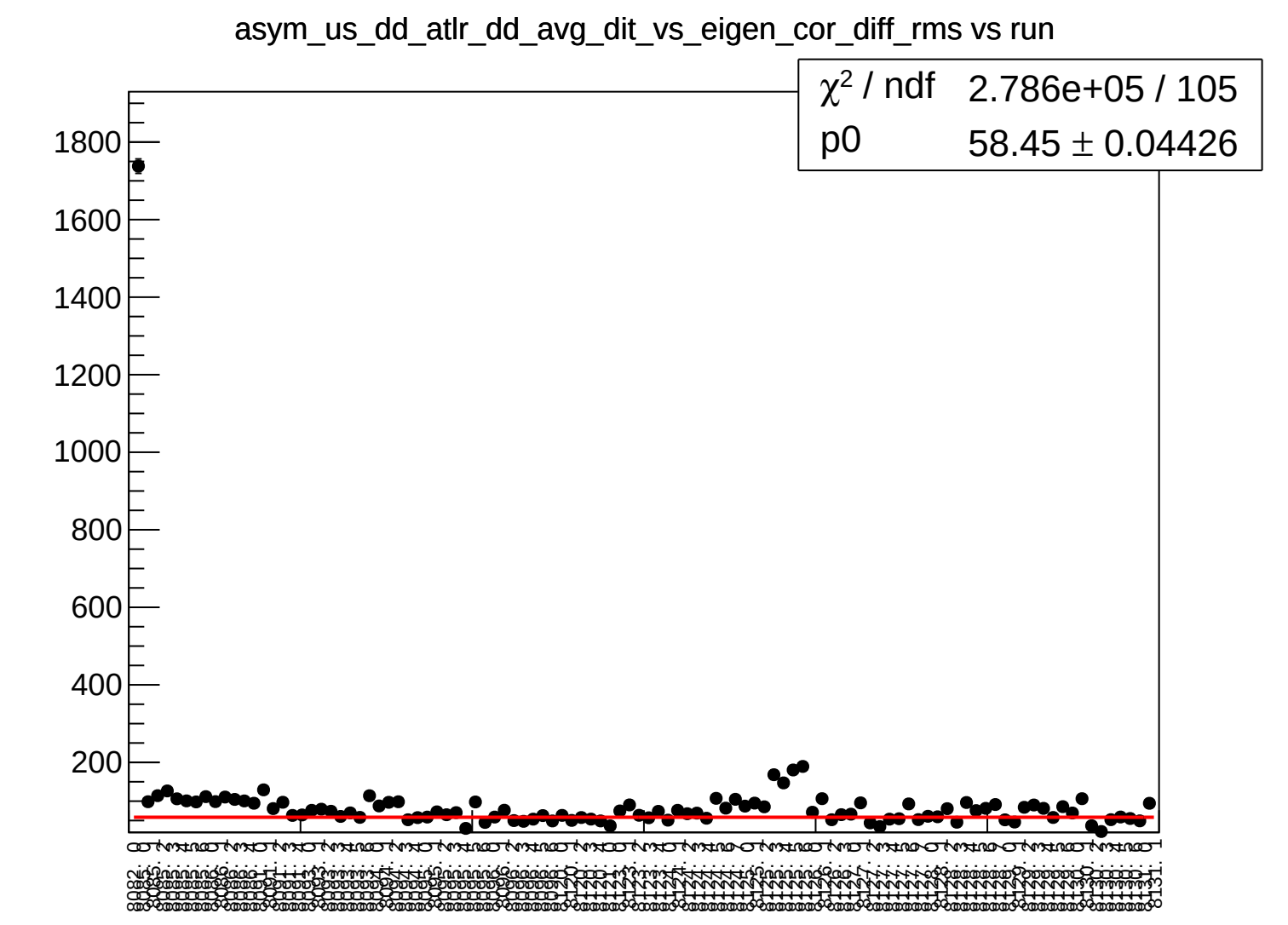

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.072e+06 / 105
p0 1.844e−10 ± 1.89e−13
1
0.8
0.6
0.4
0.2
0

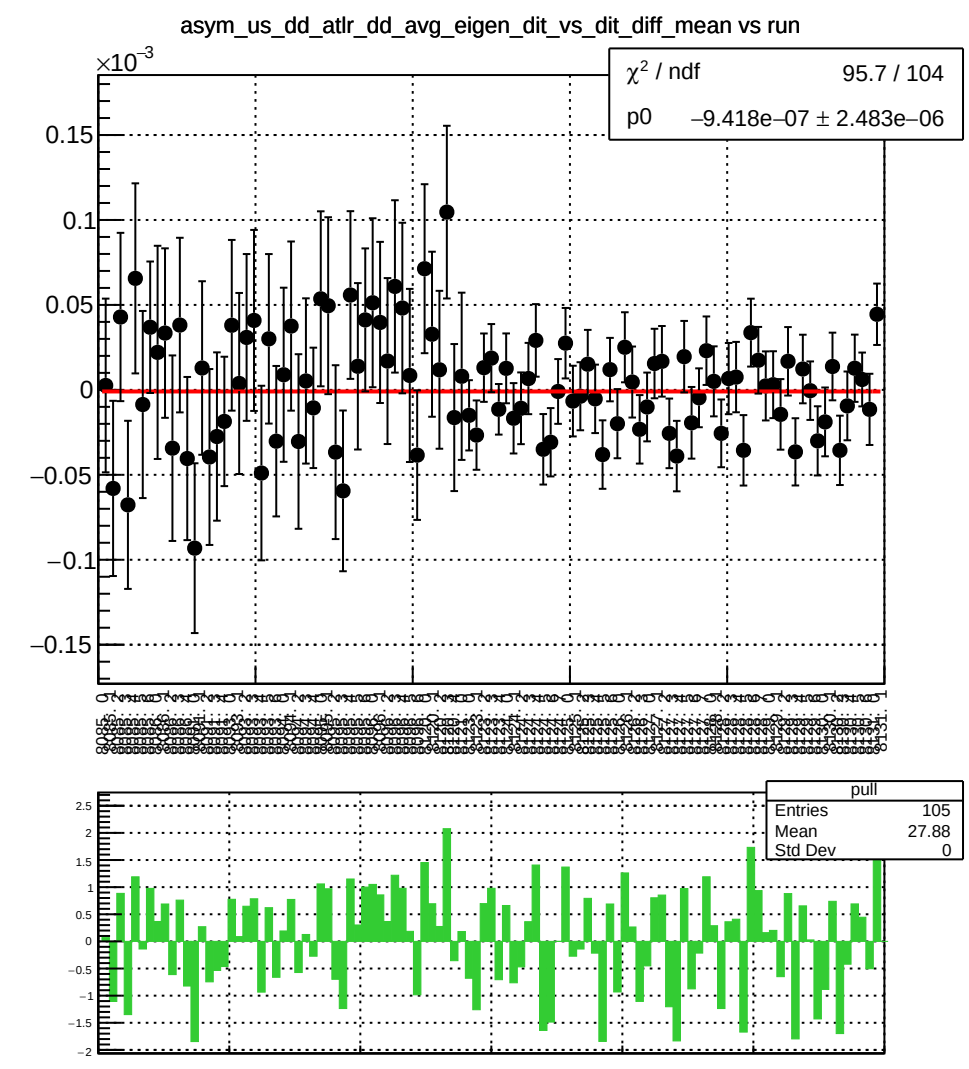

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 91.31 / 105
p0 −0.02139 ± 0.06259
pull
Entries 106
Mean 8.839
Std Dev 0

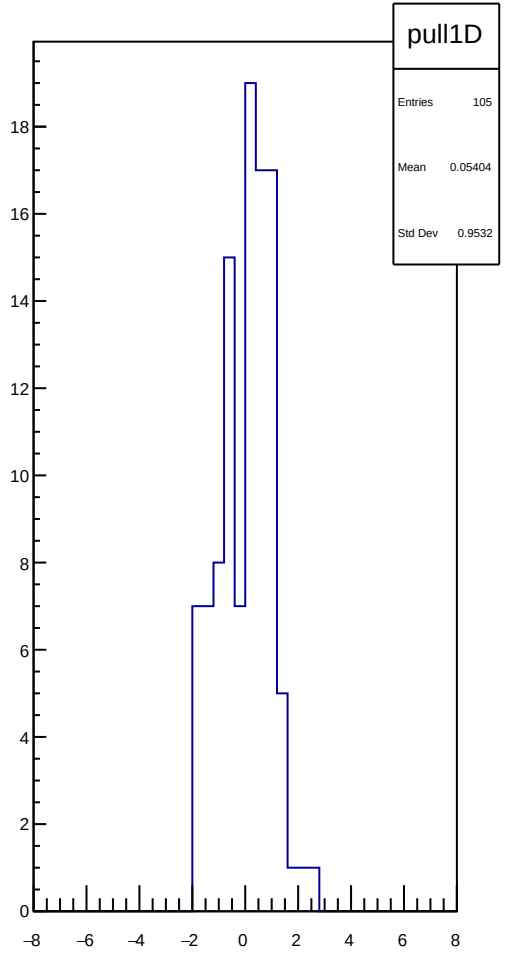

pull1D
Entries 106
Mean 0.009264
Std Dev 0.9281

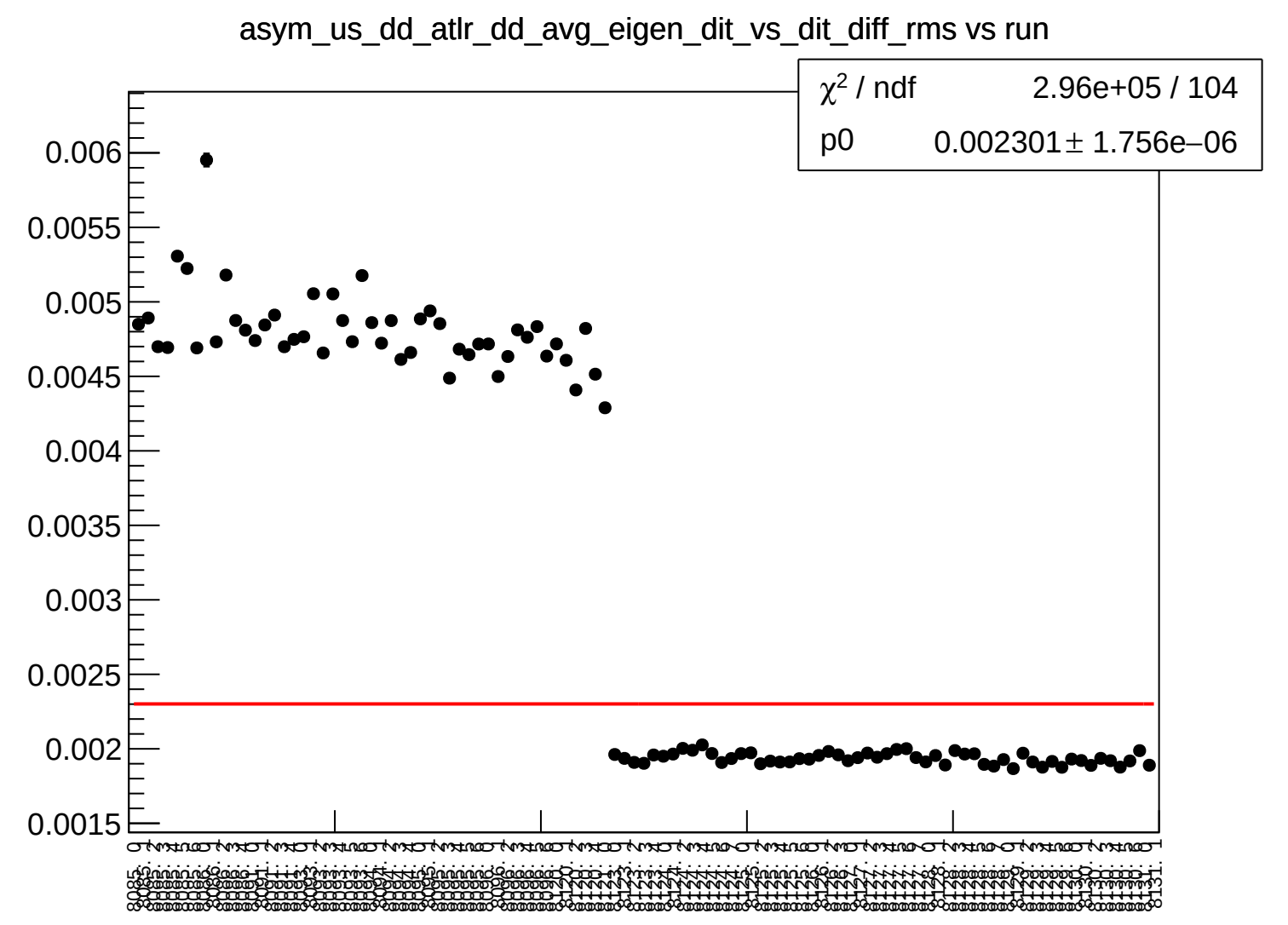

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.786e+05 / 105
p0 58.45 ± 0.04426
1800
1600
1400
1200
1000
800
600
400
200

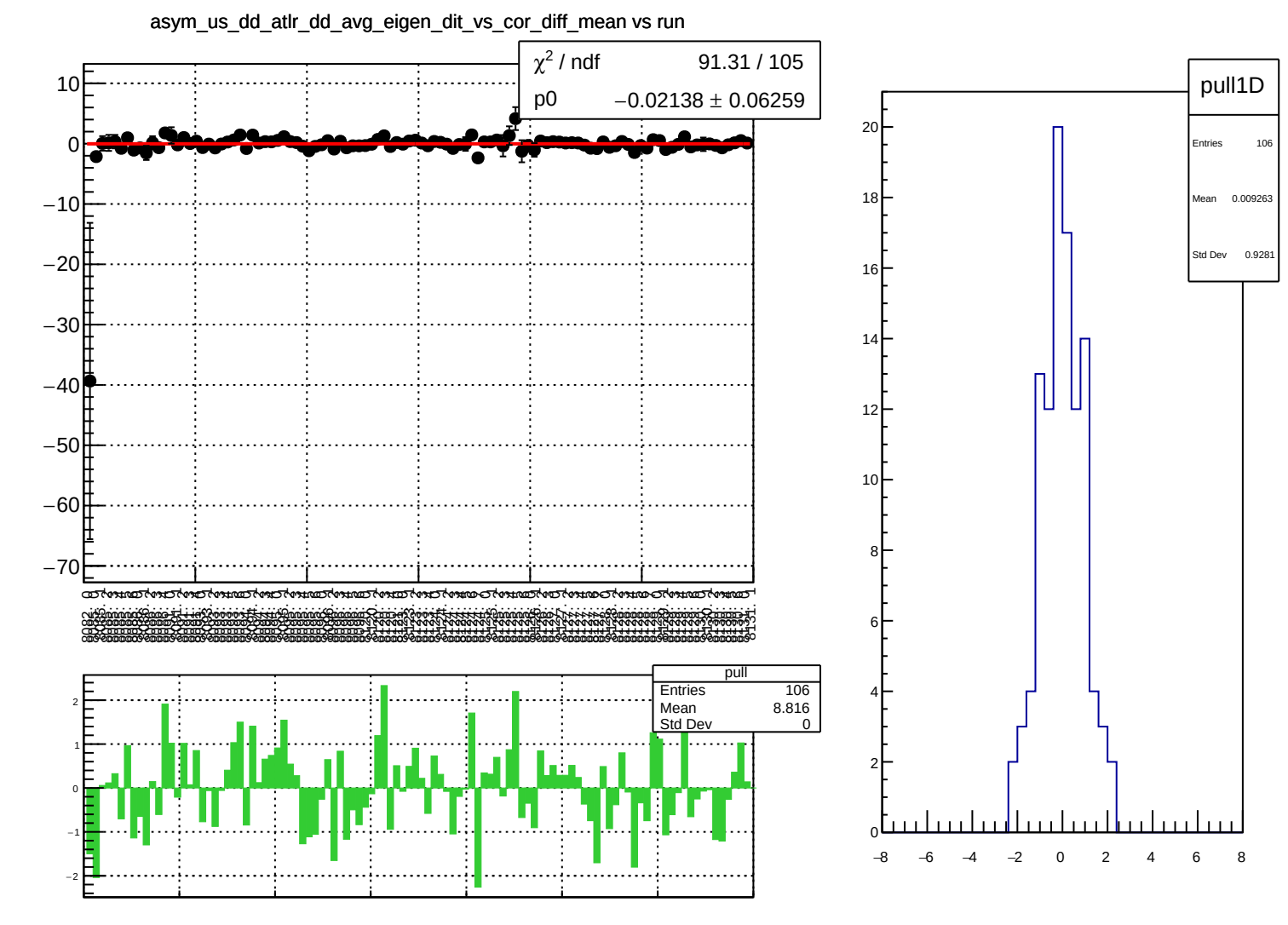

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.31 / 105
p0 −0.02139 ± 0.06259
pull
Entries 106
Mean 8.839
Std Dev 0
pull1D
Entries 106
Mean 0.009264
Std Dev 0.9281

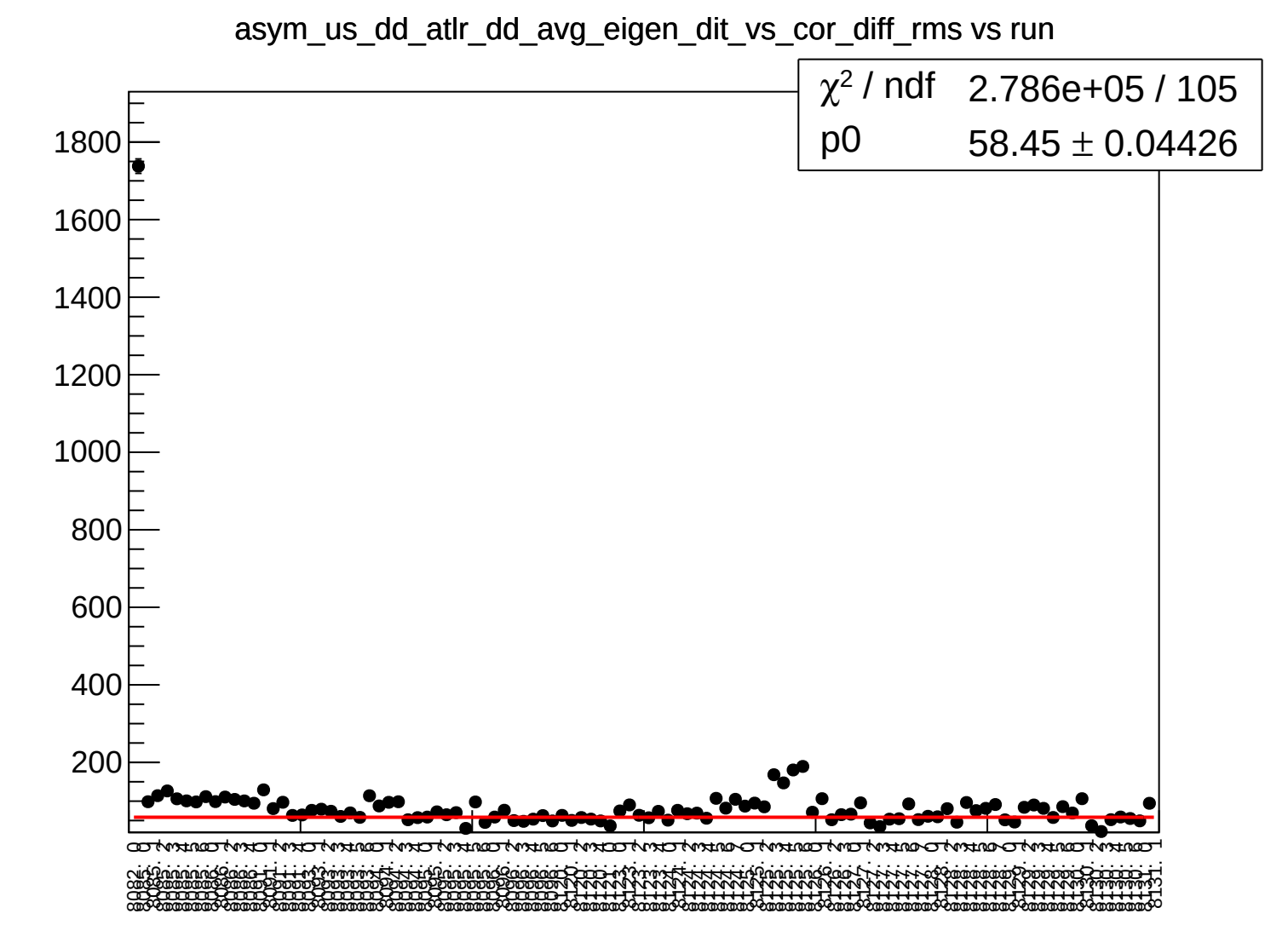

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.786e+05 / 105
p0 58.45 ± 0.04426
1800
1600
1400
1200
1000
800
600
400
200

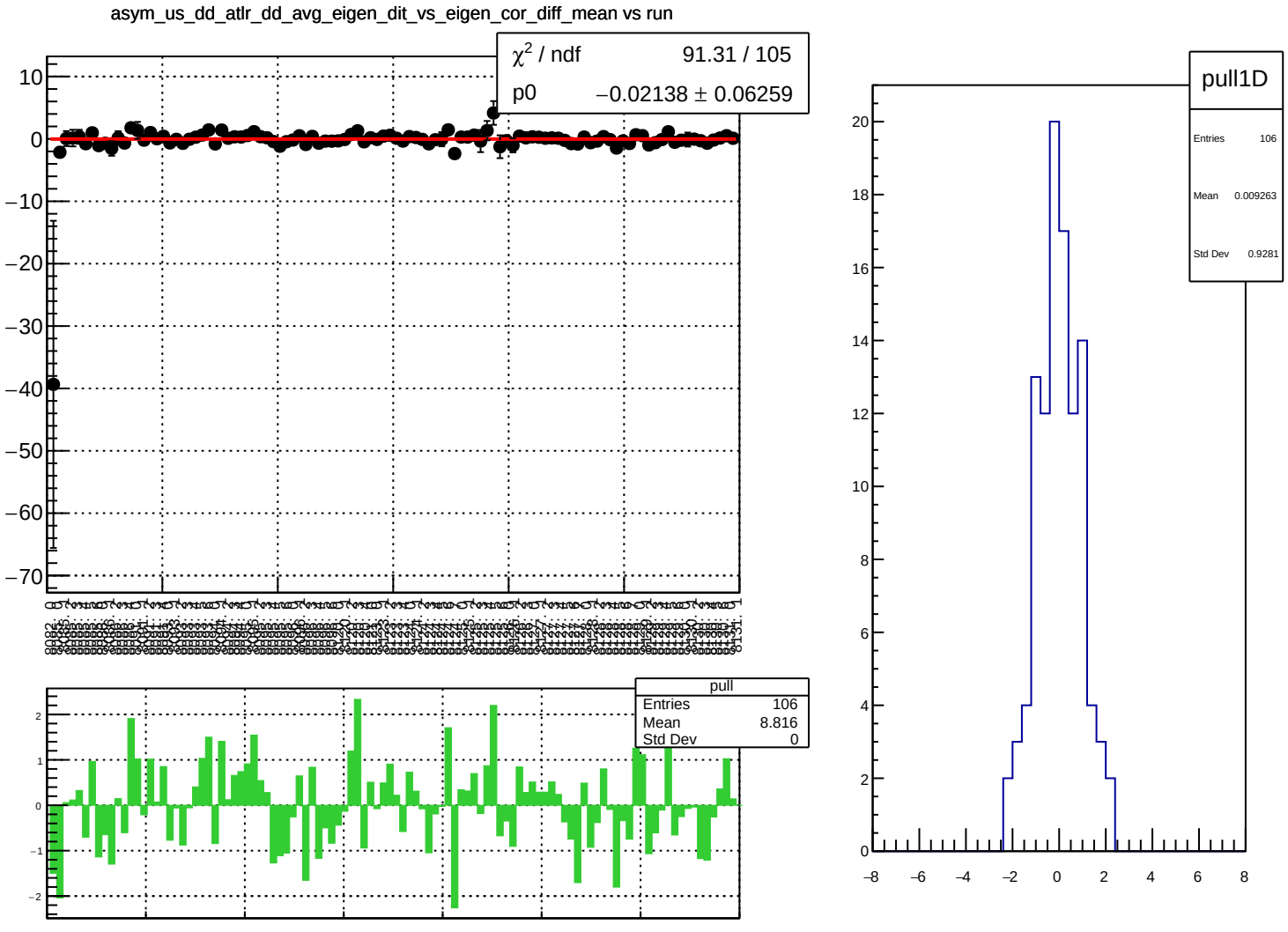

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 95.7 / 104
p0 −9.418e−07 ± 2.483e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 105
Mean 27.88
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

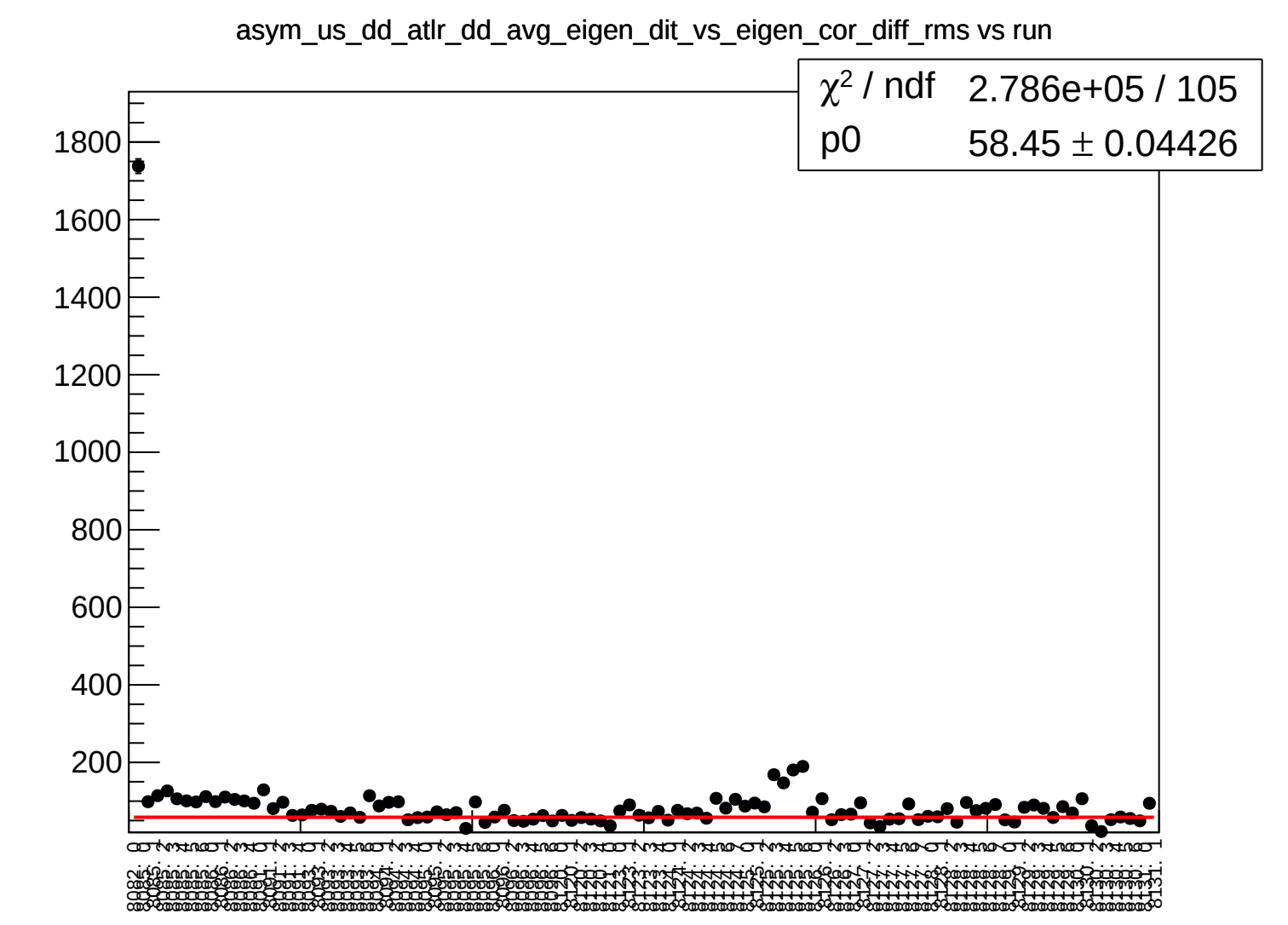

pull1D
Entries 105
Mean 0.05404
Std Dev 0.9532
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

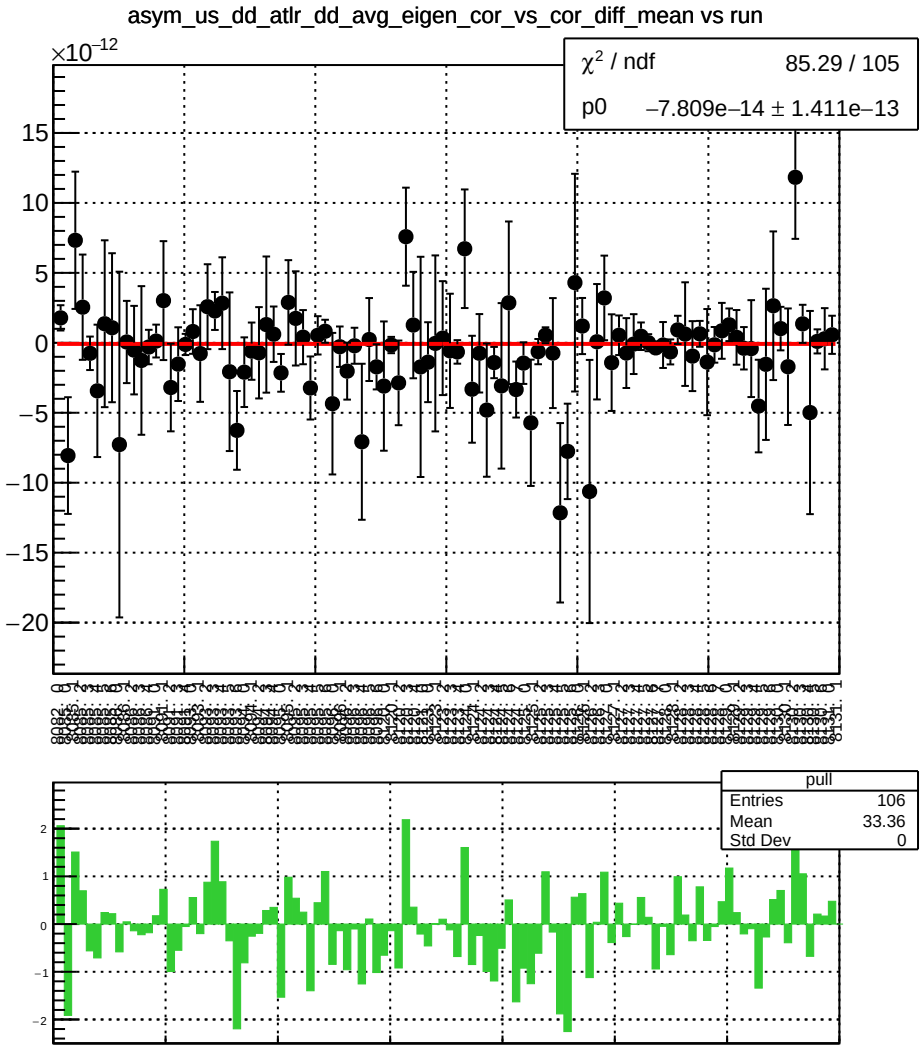

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.96e+05 / 104
p0 0.002301 ± 1.756e−06
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015

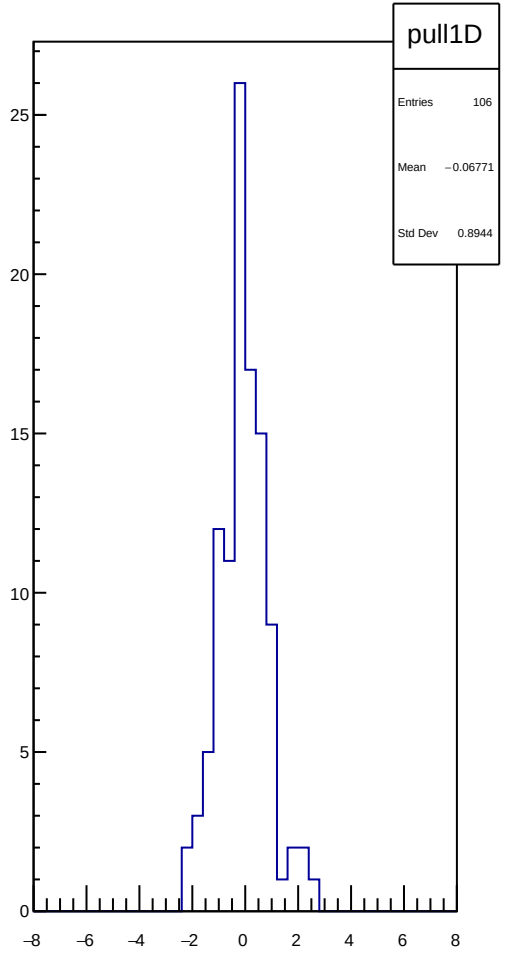

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.31 / 105
p0 −0.02138 ± 0.06259
pull
Entries 106
Mean 8.816
Std Dev 0
pull1D
Entries 106
Mean 0.009263
Std Dev 0.9281

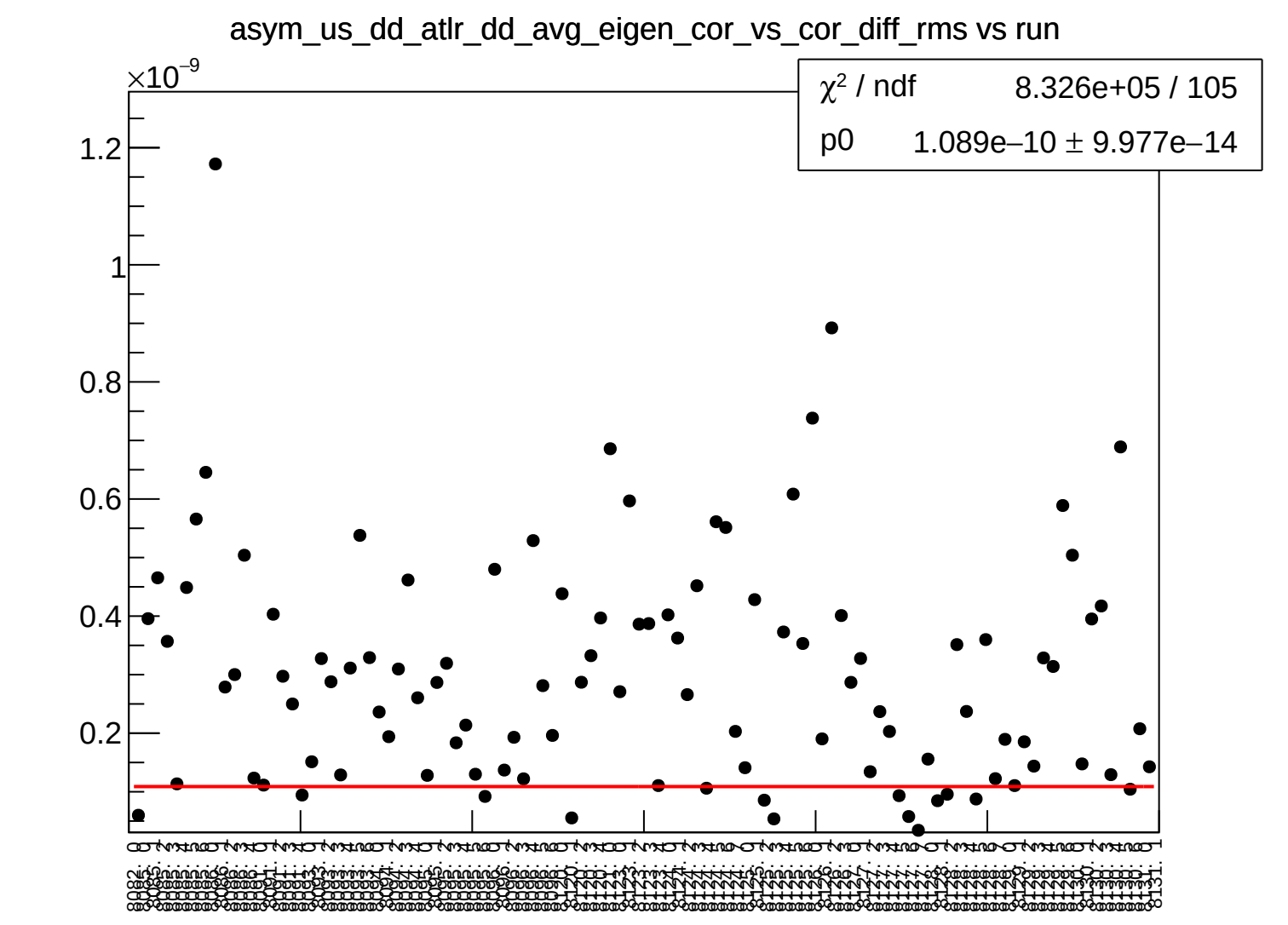

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.786e+05 / 105
p0 58.45 ± 0.04426
1800
1600
1400
1200
1000
800
600
400
200

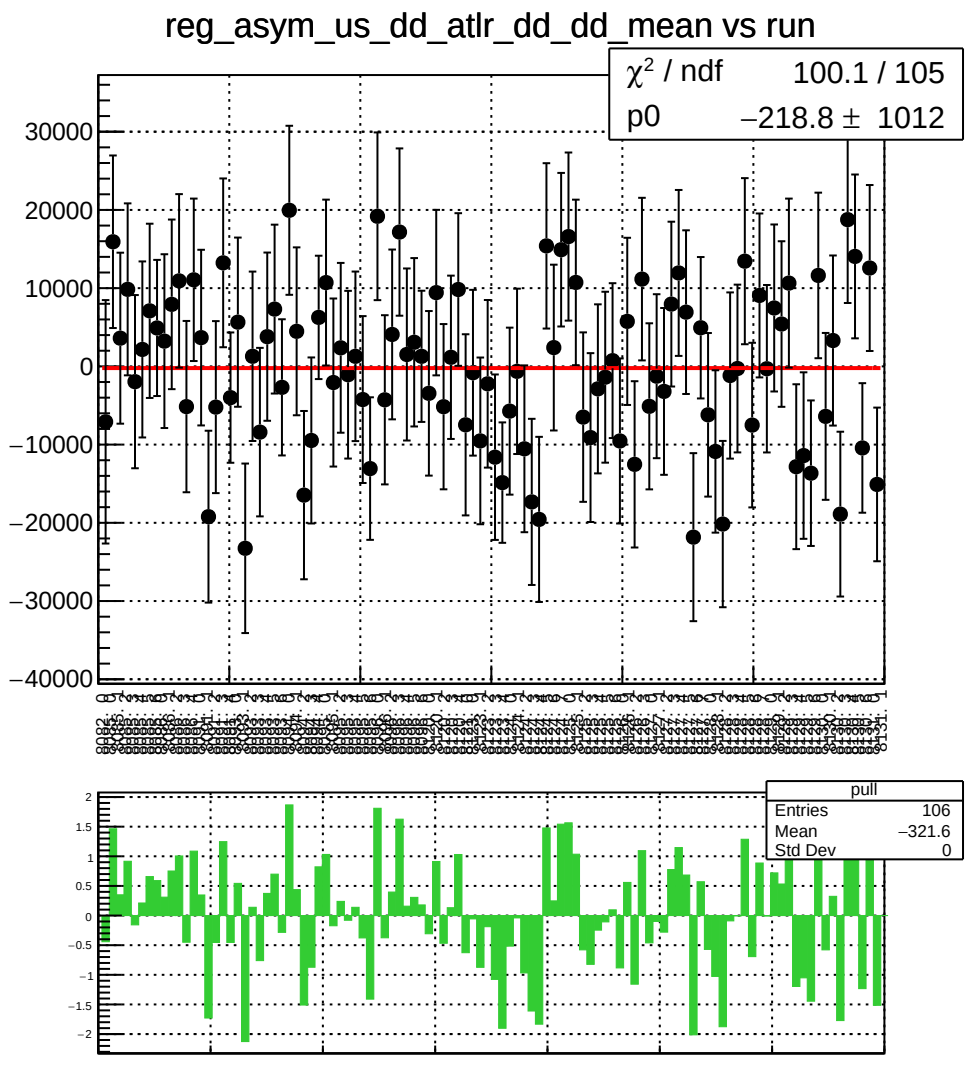

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.31 / 105
p0 −0.02138 ± 0.06259
pull
Entries 106
Mean 8.816
Std Dev 0
pull1D
Entries 106
Mean 0.009263
Std Dev 0.9281

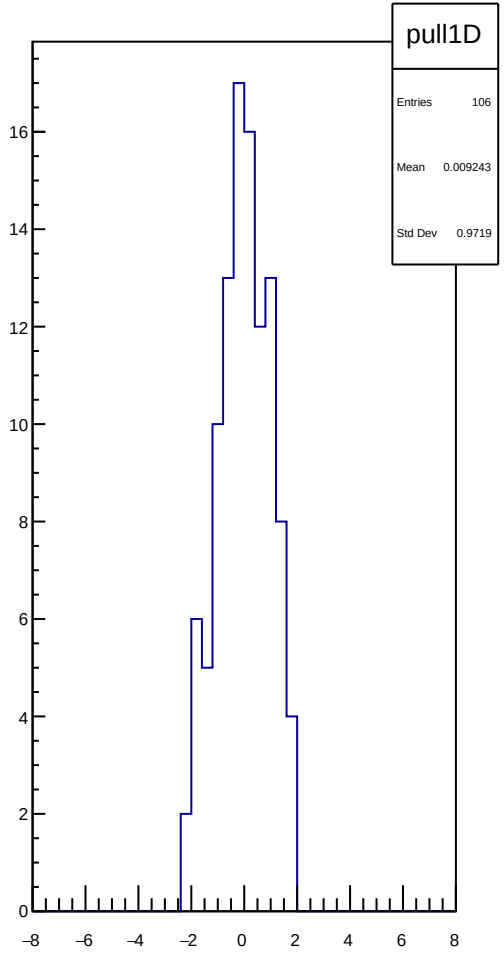

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.786e+05 / 105
p0 58.45 ± 0.04426
1800
1600
1400
1200
1000
800
600
400
200

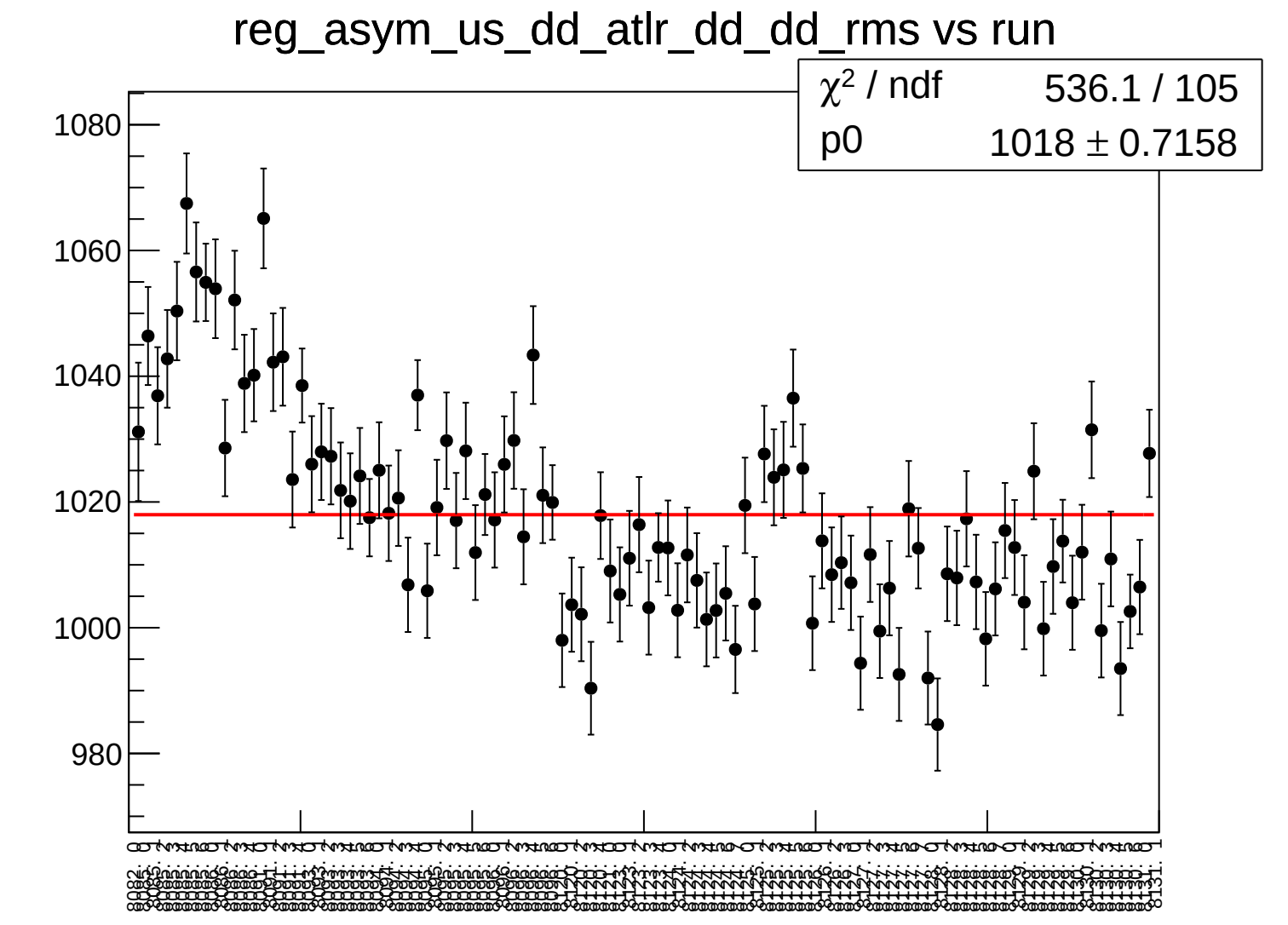

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.29 / 105
p0 −7.809e−14 ± 1.411e−13
15
10
5
0
−5
−10
−15
−20
pull
Entries 106
Mean 33.36
Std Dev 0
2
1
0
−1
−2

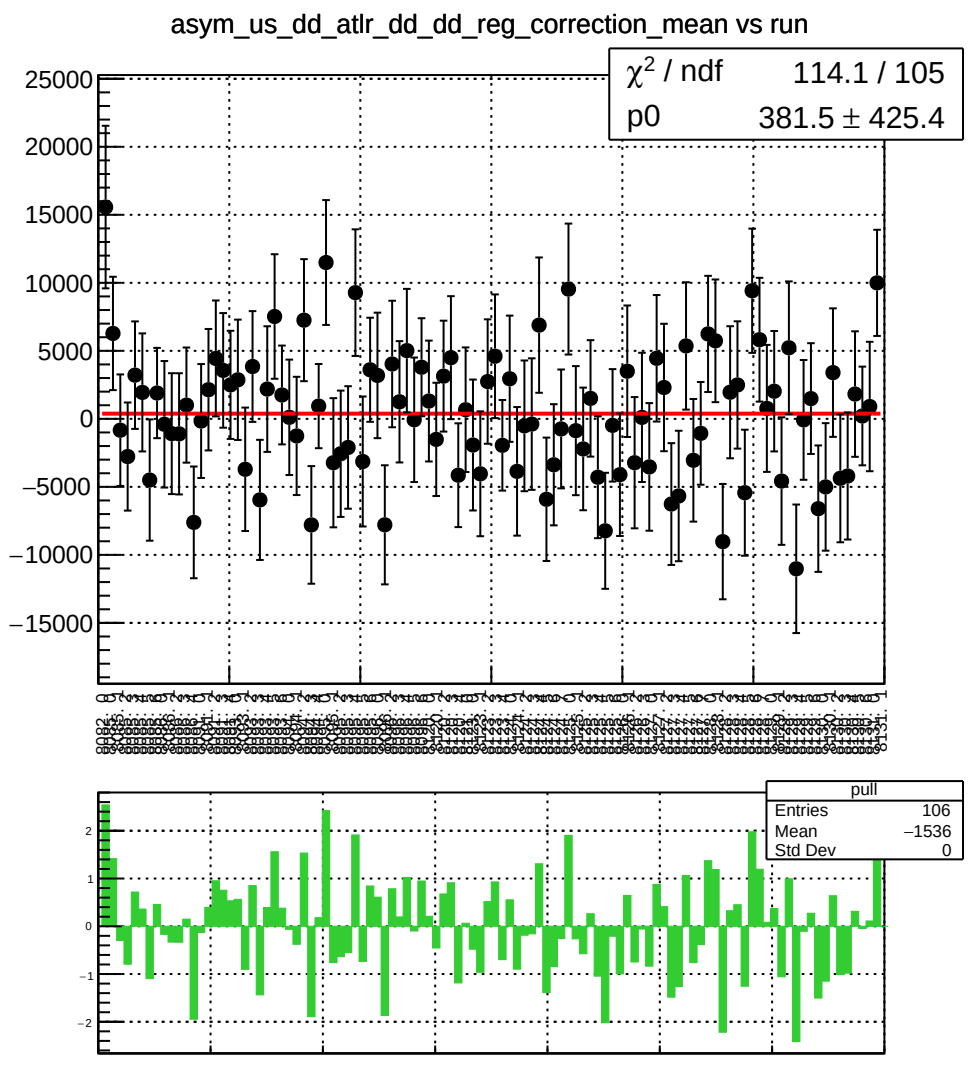

pull1D
Entries 106
Mean −0.06771
Std Dev 0.8944
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

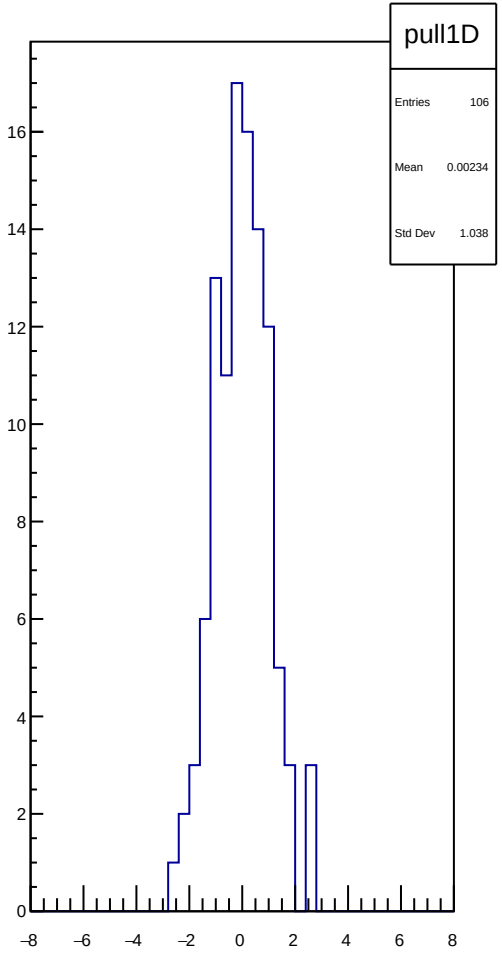

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.326e+05 / 105
p0 1.089e−10 ± 9.977e−14
1.2
1
0.8
0.6
0.4
0.2

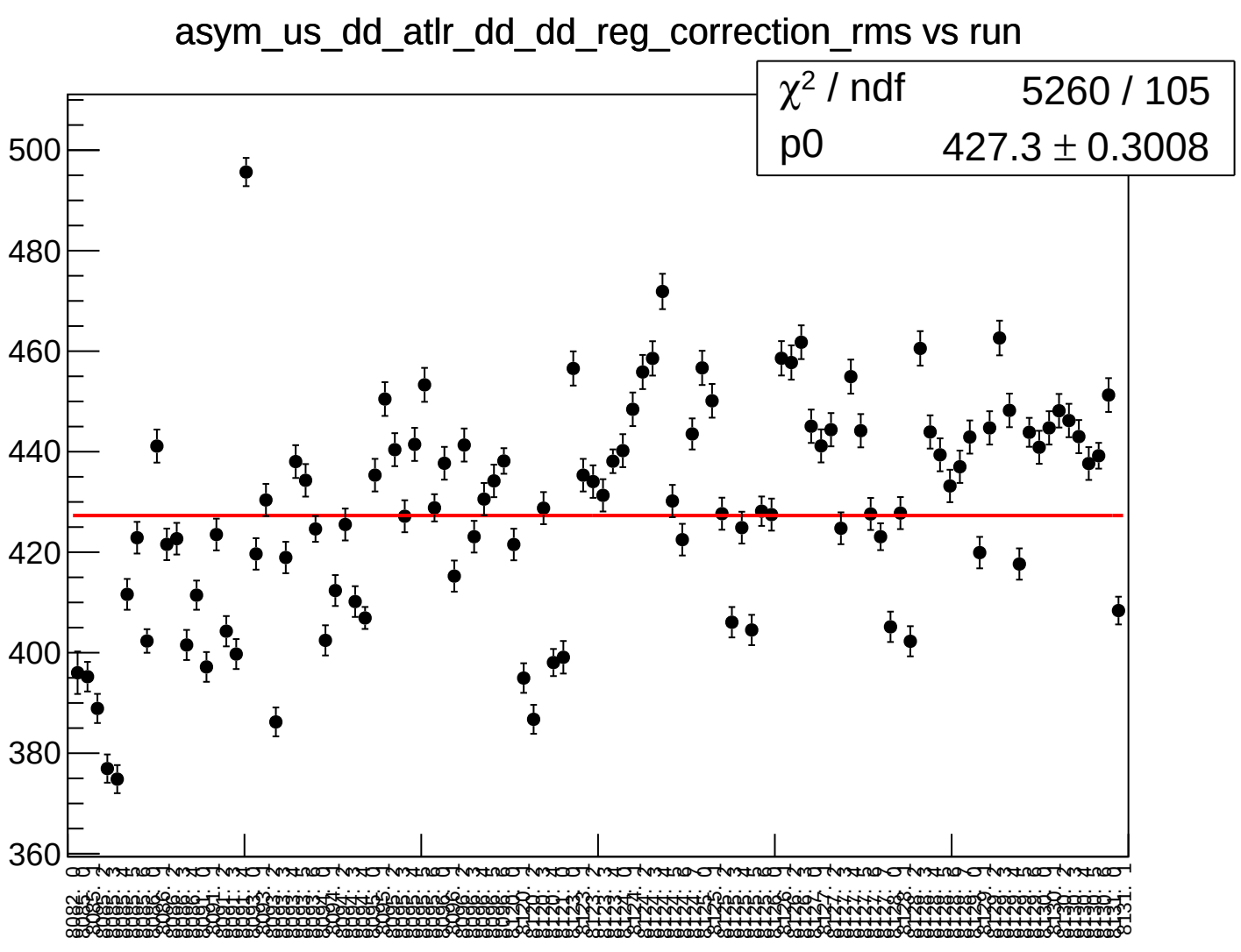

reg_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 100.1 / 105
p0 −218.8 ± 1012
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 106
Mean −321.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

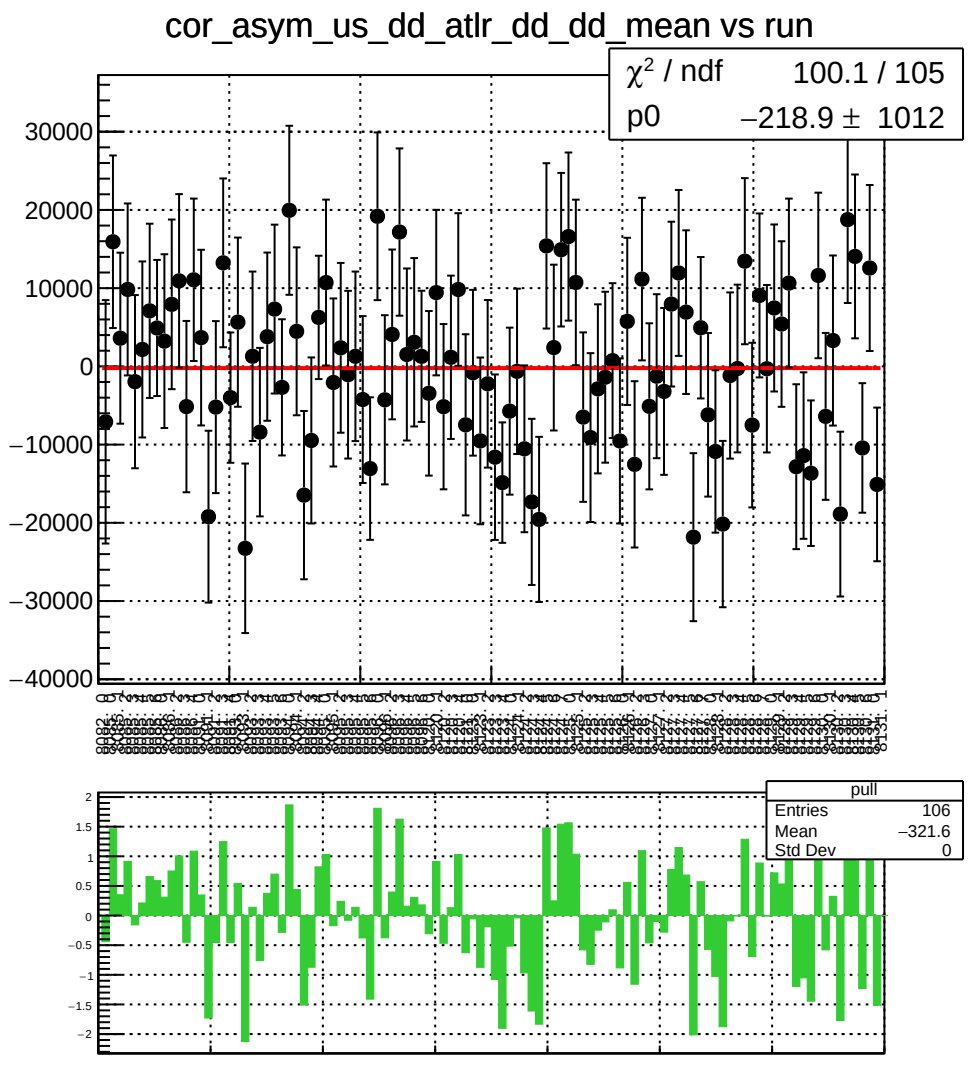

pull1D
Entries 106
Mean 0.009243
Std Dev 0.9719
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

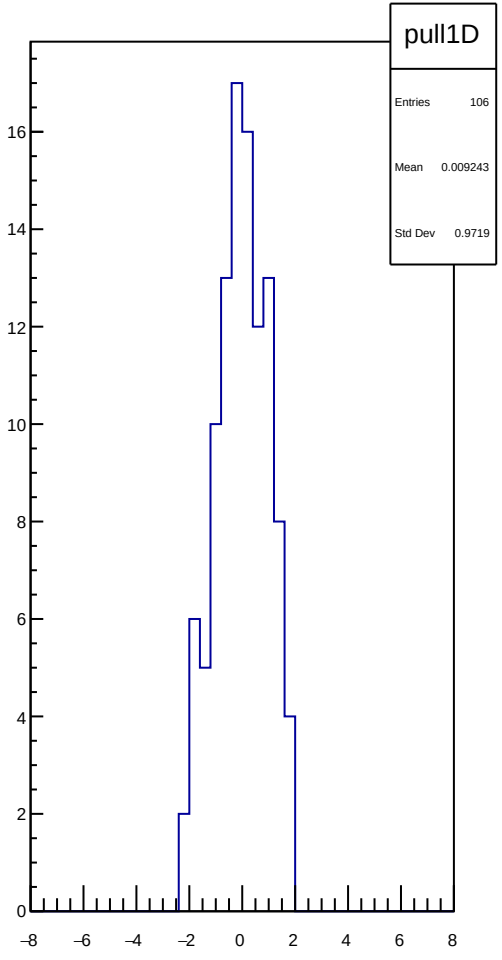

reg_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 536.1 / 105
p0 1018 ± 0.7158
1080
1060
1040
1020
1000
980

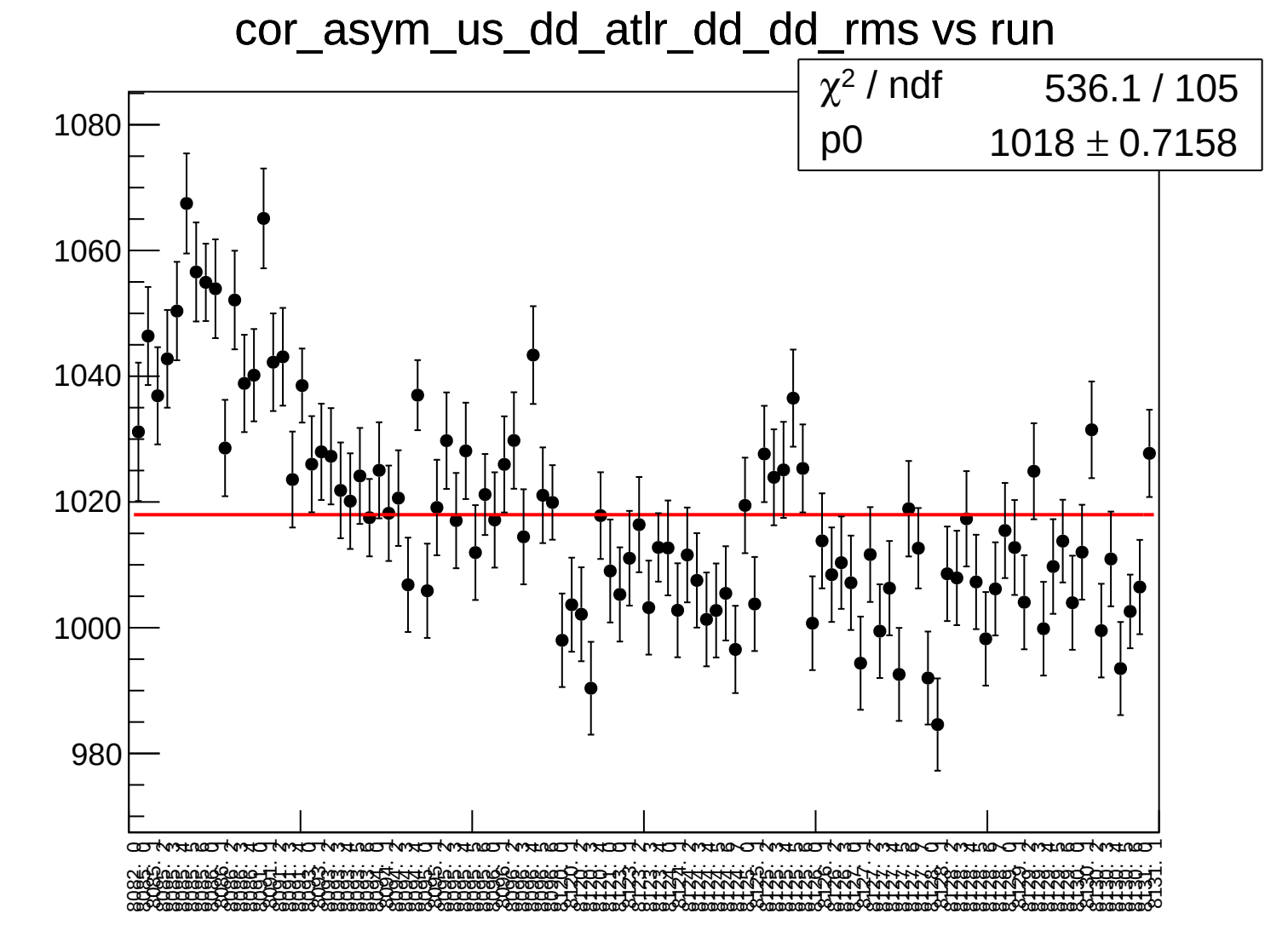

asym_us_dd_atlr_dd_dd_reg_correction_mean vs run
χ² / ndf 114.1 / 105
p0 381.5 ± 425.4
pull
Entries 106
Mean −1536
Std Dev 0

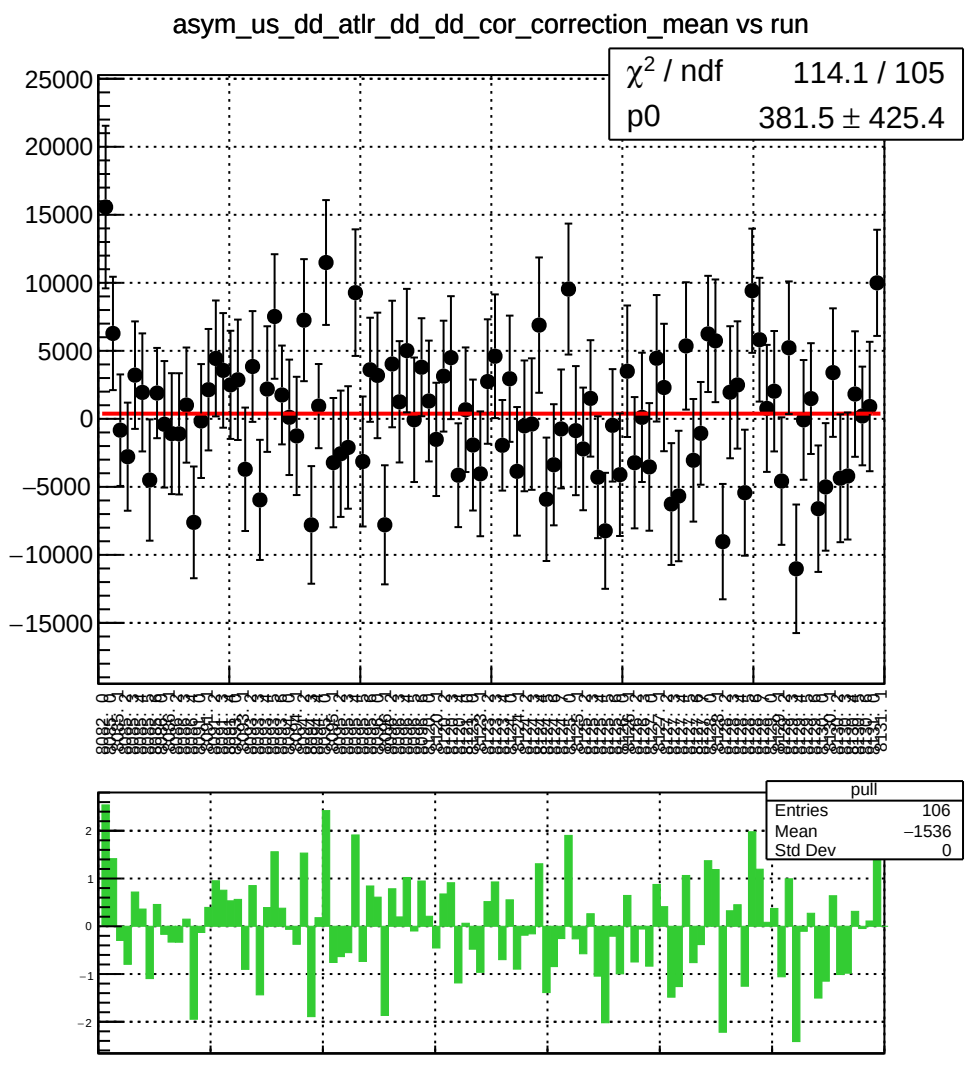

pull1D
Entries 106
Mean 0.00234
Std Dev 1.038

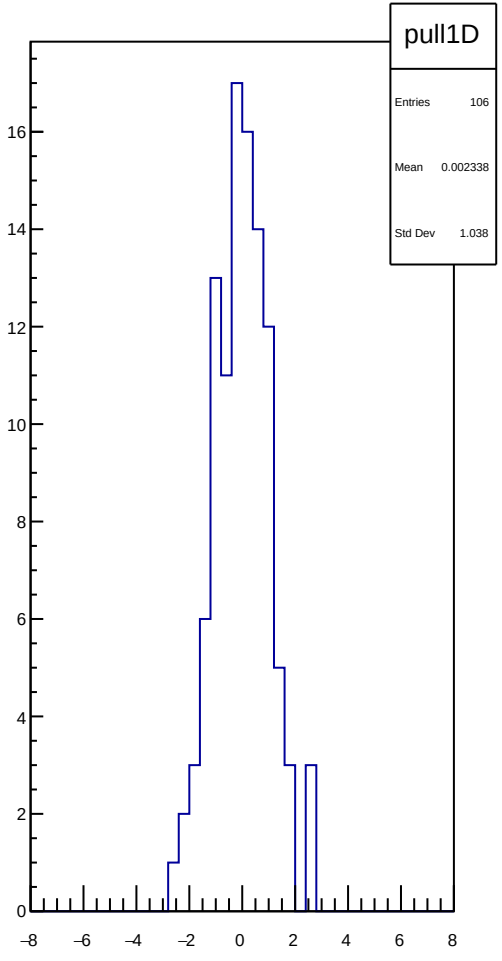

asym_us_dd_atlr_dd_dd_reg_correction_rms vs run
χ² / ndf 5260 / 105
p0 427.3 ± 0.3008
500
480
460
440
420
400
380
360

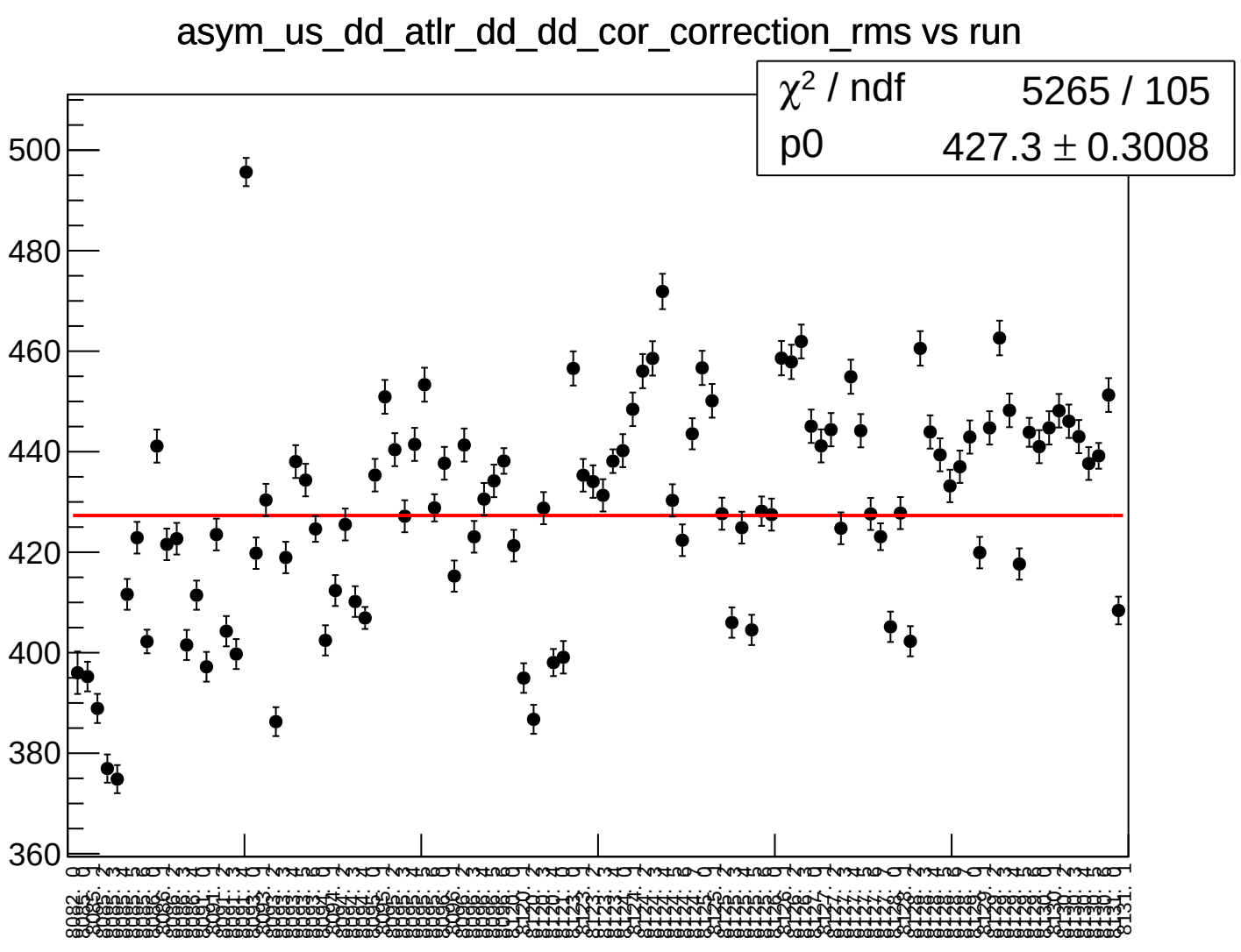

cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 100.1 / 105
p0 −218.9 ± 1012
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 106
Mean −321.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

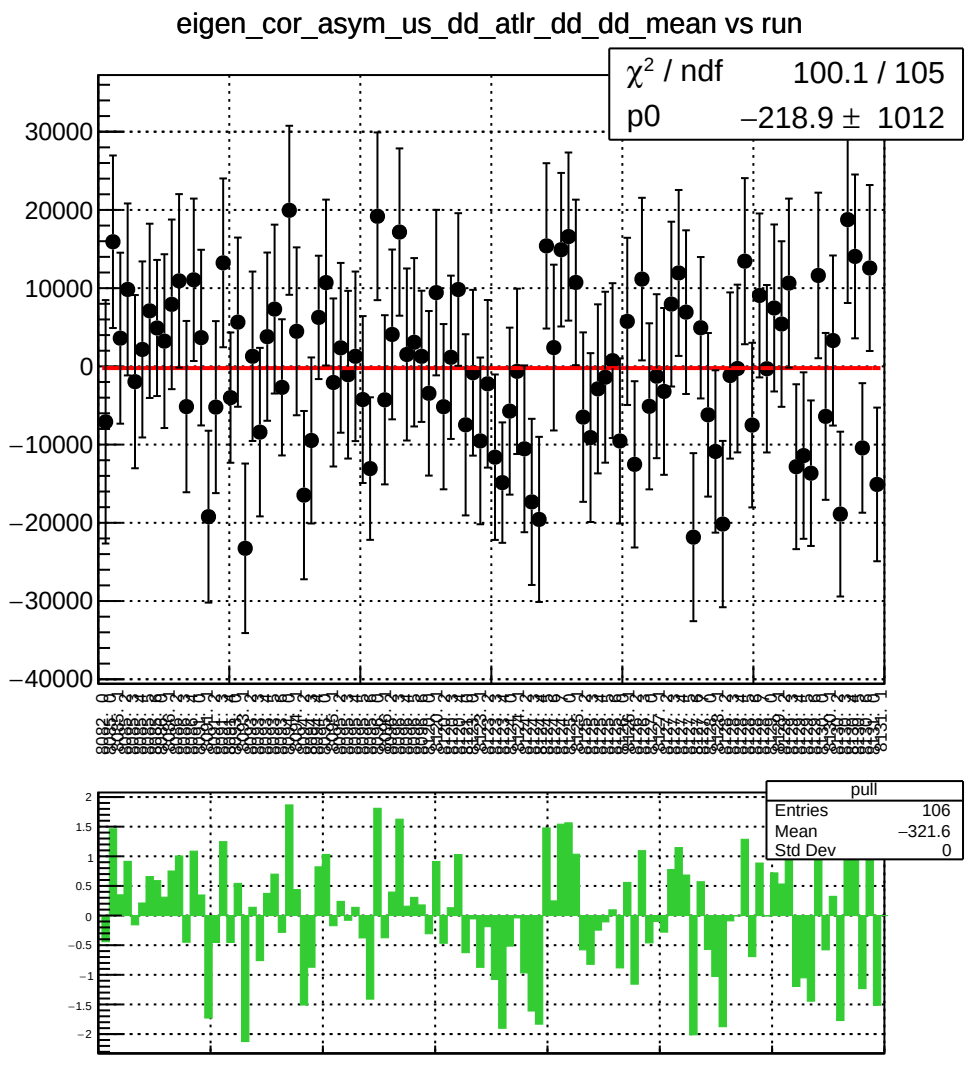

pull1D
Entries 106
Mean 0.009243
Std Dev 0.9719
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

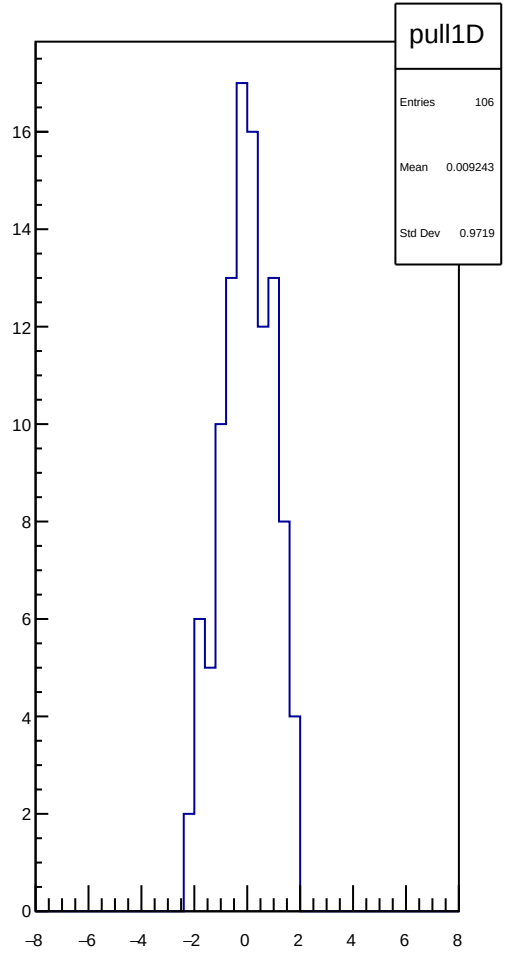

cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 536.1 / 105
p0 1018 ± 0.7158
1080
1060
1040
1020
1000
980

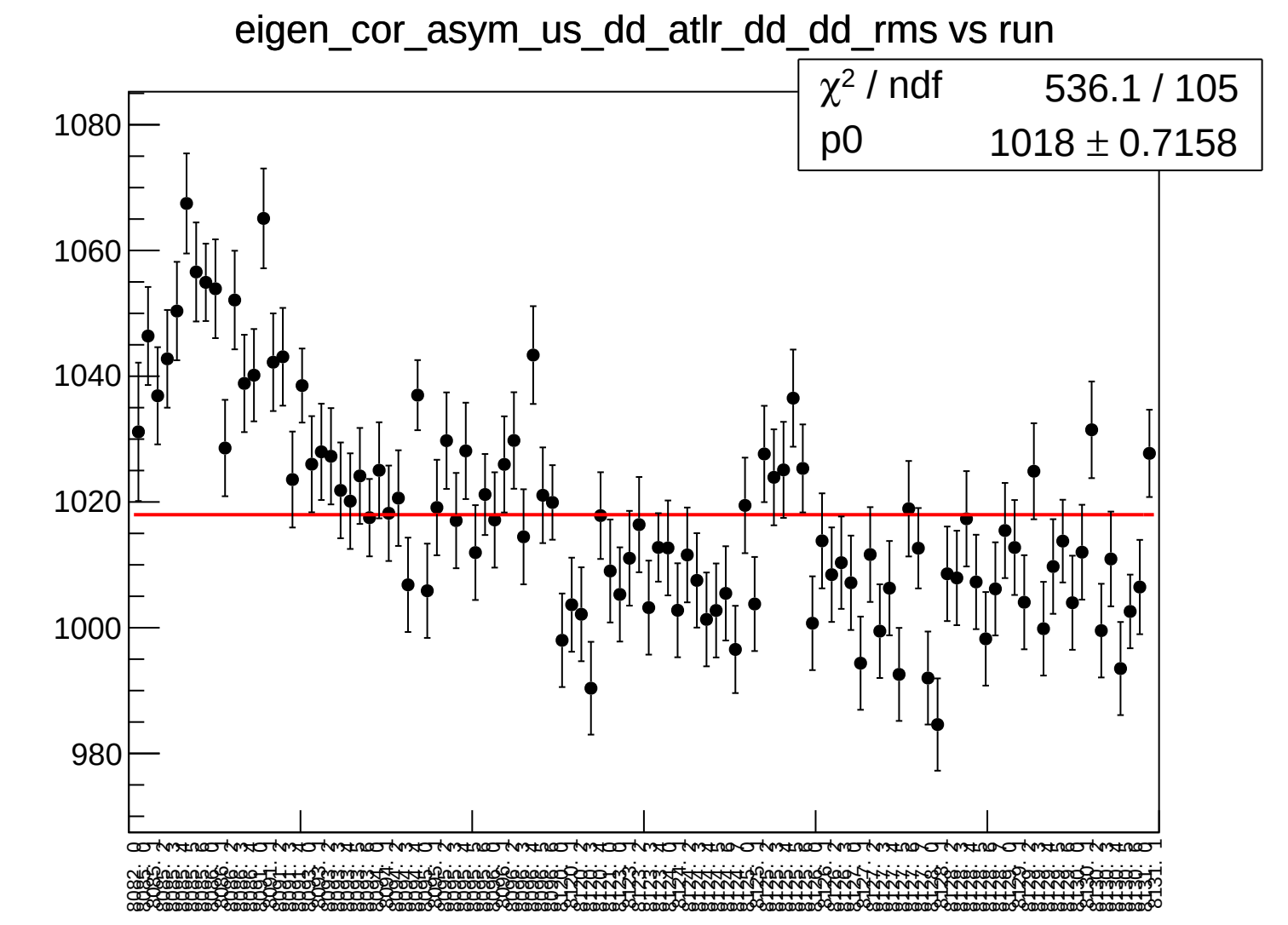

asym_us_dd_atlr_dd_dd_cor_correction_mean vs run
χ² / ndf 114.1 / 105
p0 381.5 ± 425.4
pull
Entries 106
Mean −1536
Std Dev 0

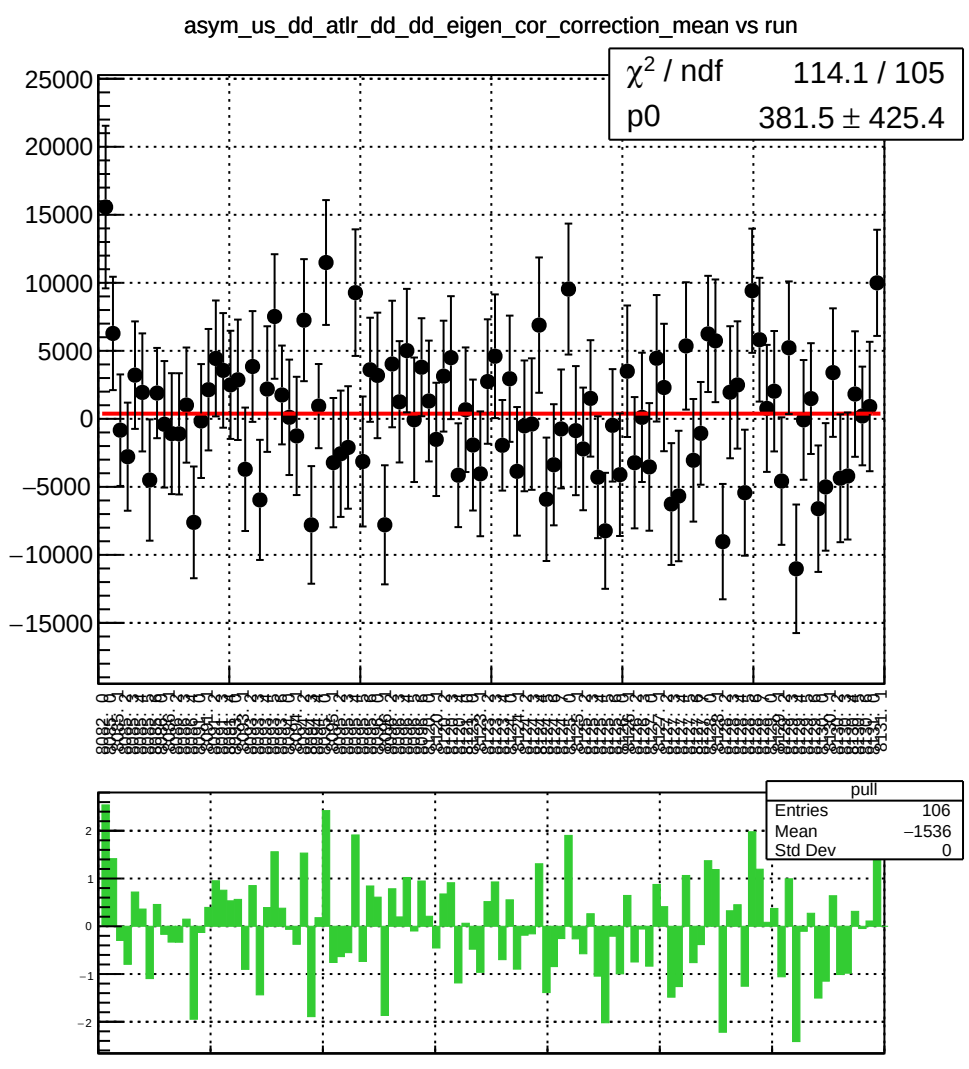

pull1D
Entries 106
Mean 0.002338
Std Dev 1.038

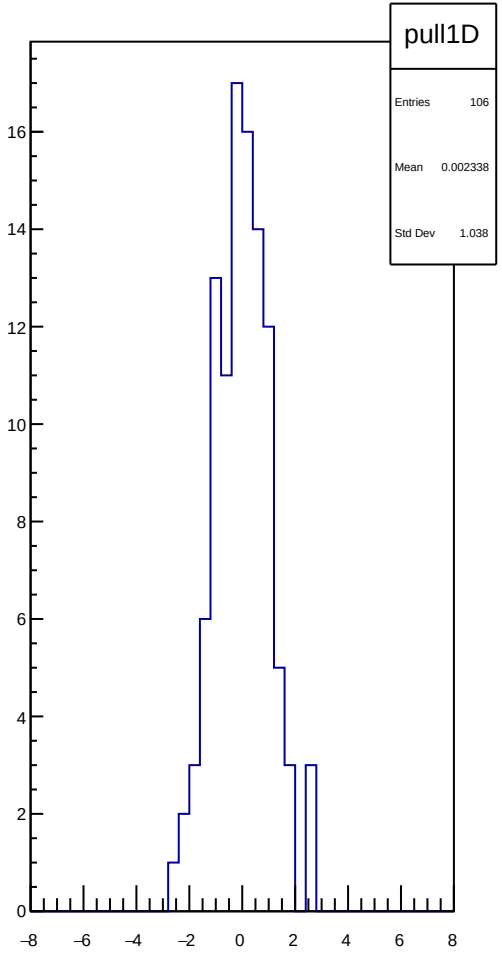

asym_us_dd_atlr_dd_dd_cor_correction_rms vs run
χ² / ndf 5265 / 105
p0 427.3 ± 0.3008
500
480
460
440
420
400
380
360

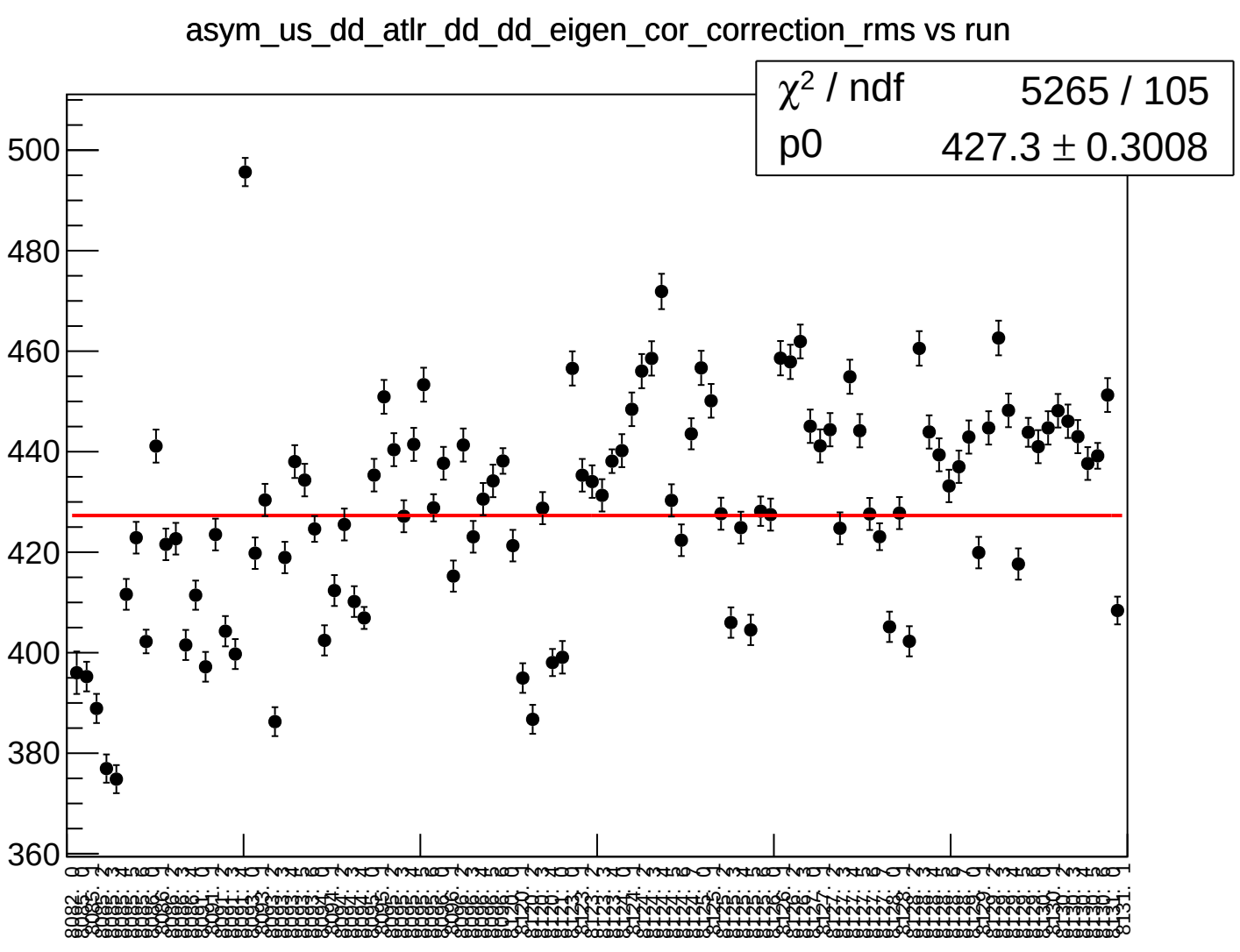

eigen_cor_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 100.1 / 105
p0 −218.9 ± 1012
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 106
Mean −321.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

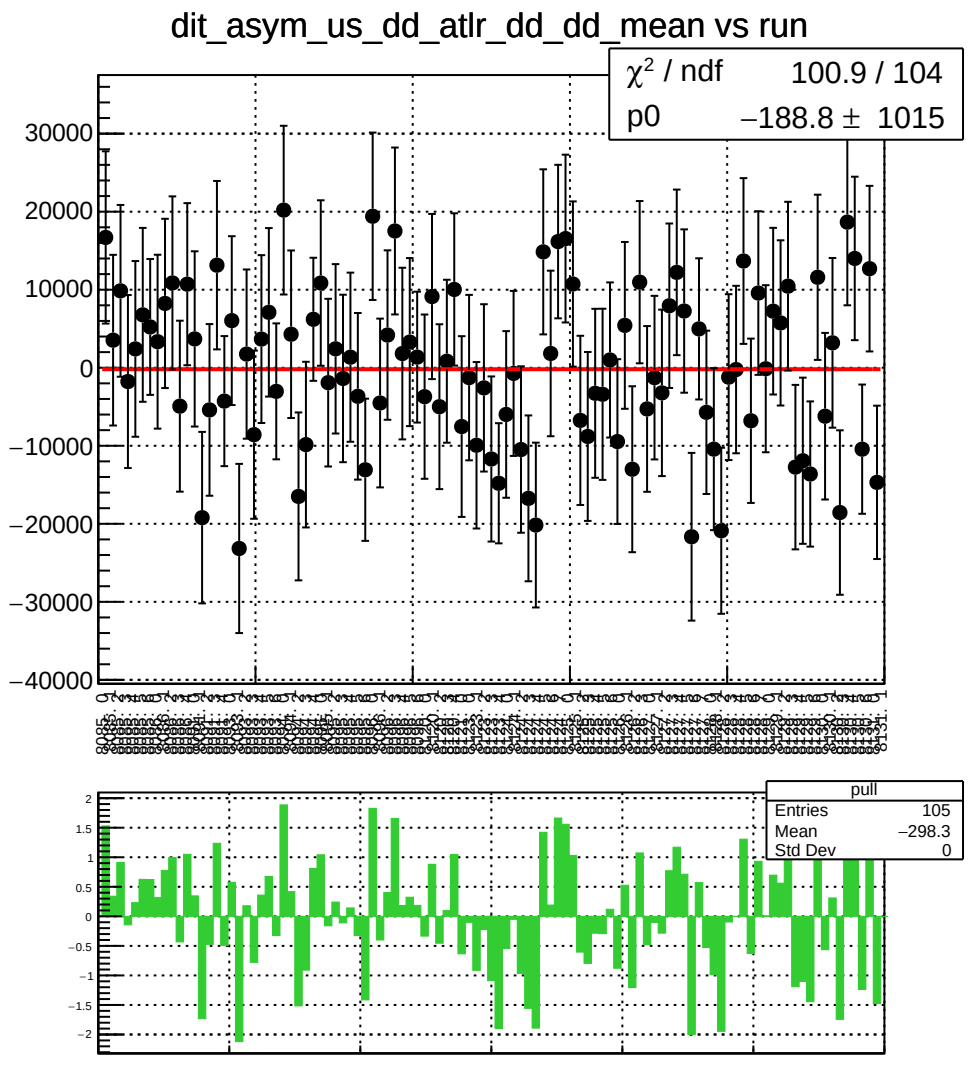

pull1D
Entries 106
Mean 0.009243
Std Dev 0.9719
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

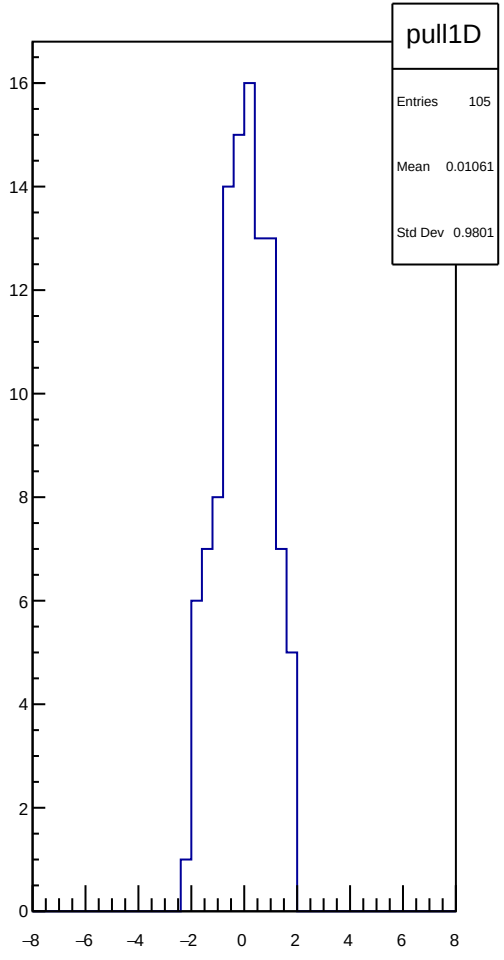

eigen_cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 536.1 / 105
p0 1018 ± 0.7158
1080
1060
1040
1020
1000
980

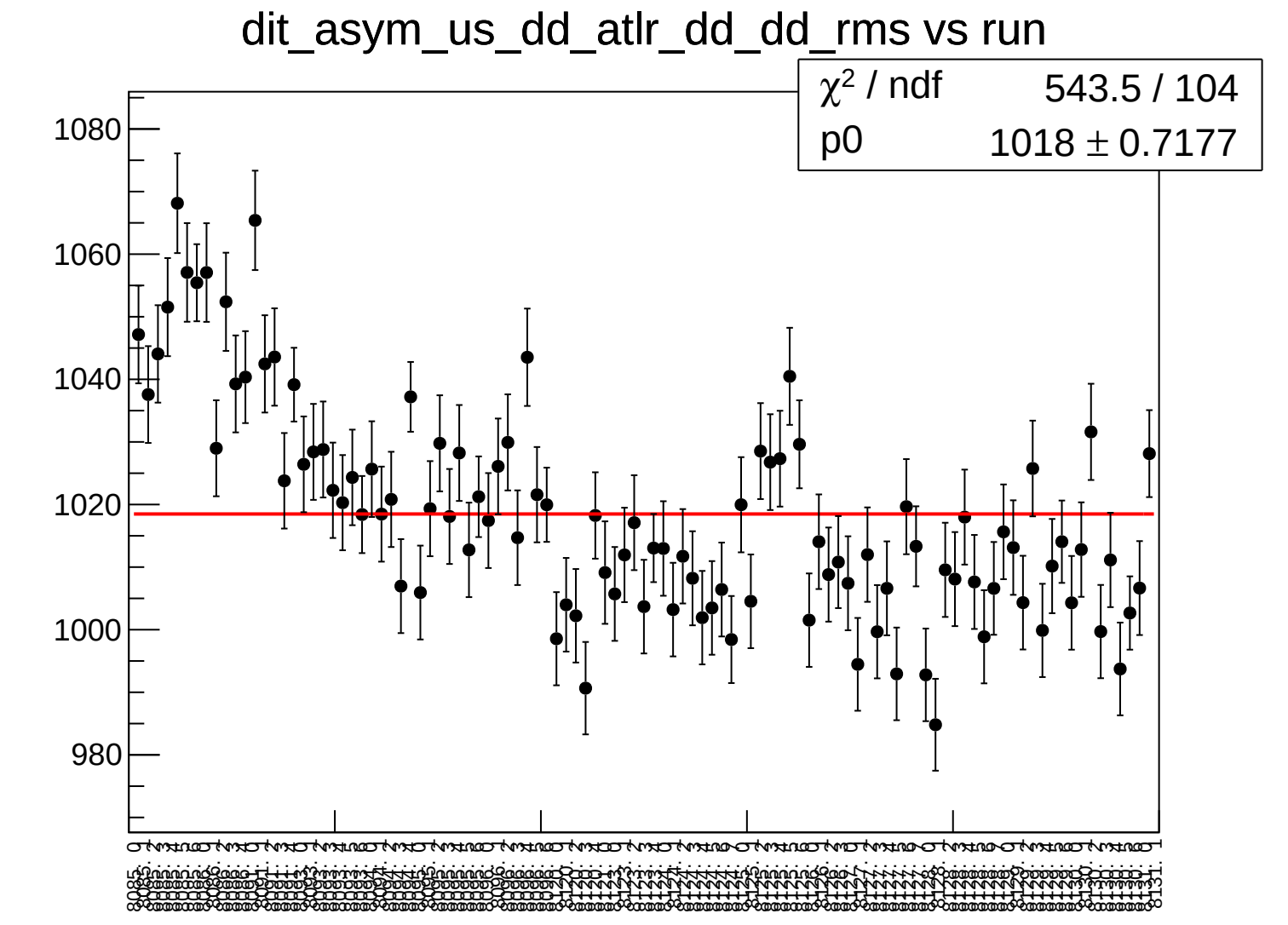

asym_us_dd_atlr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 114.1 / 105
p0 381.5 ± 425.4
25000
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 106
Mean −1536
Std Dev 0
2
1
0
−1
−2

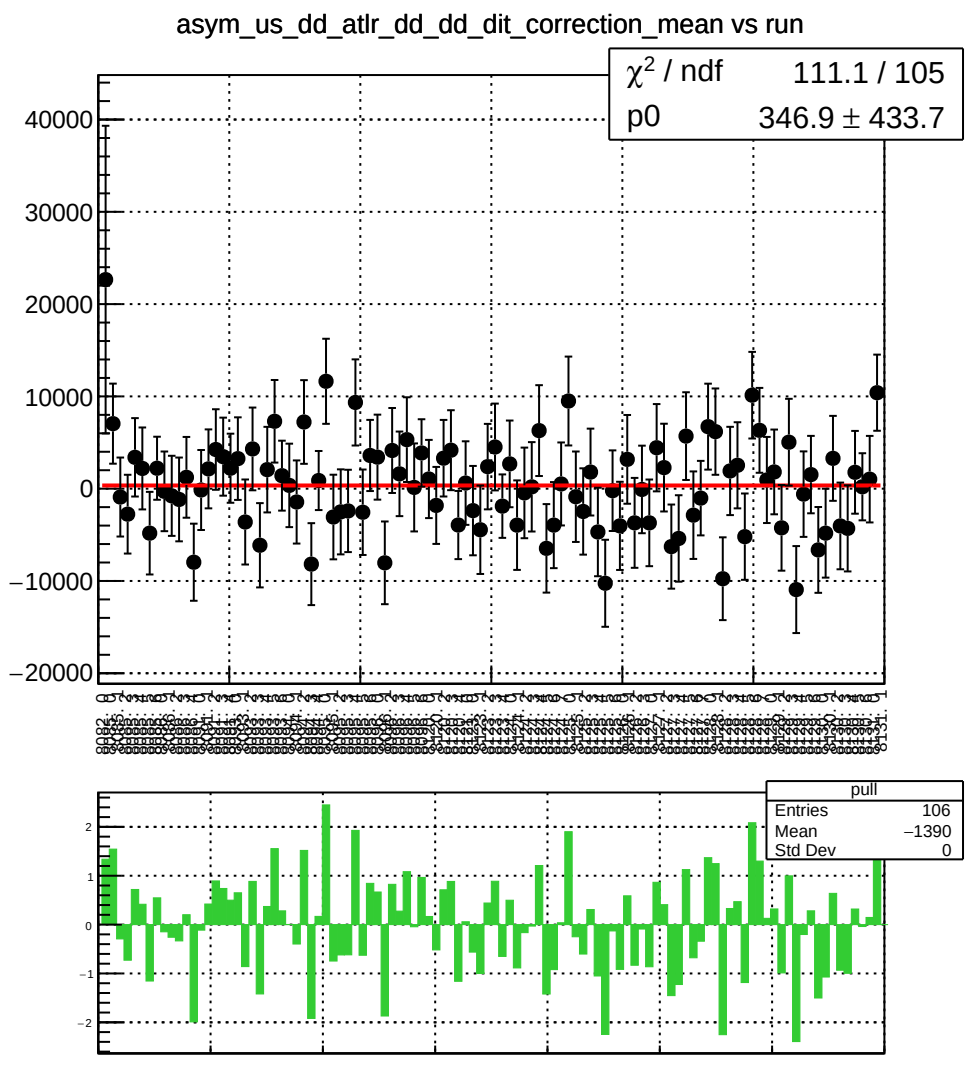

pull1D
Entries 106
Mean 0.002338
Std Dev 1.038
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

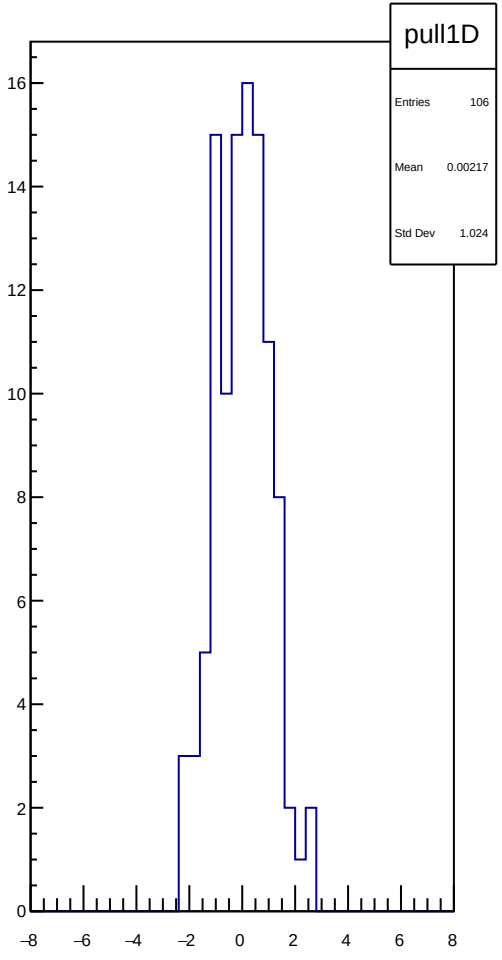

asym_us_dd_atlr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 5265 / 105
p0 427.3 ± 0.3008
500
480
460
440
420
400
380
360

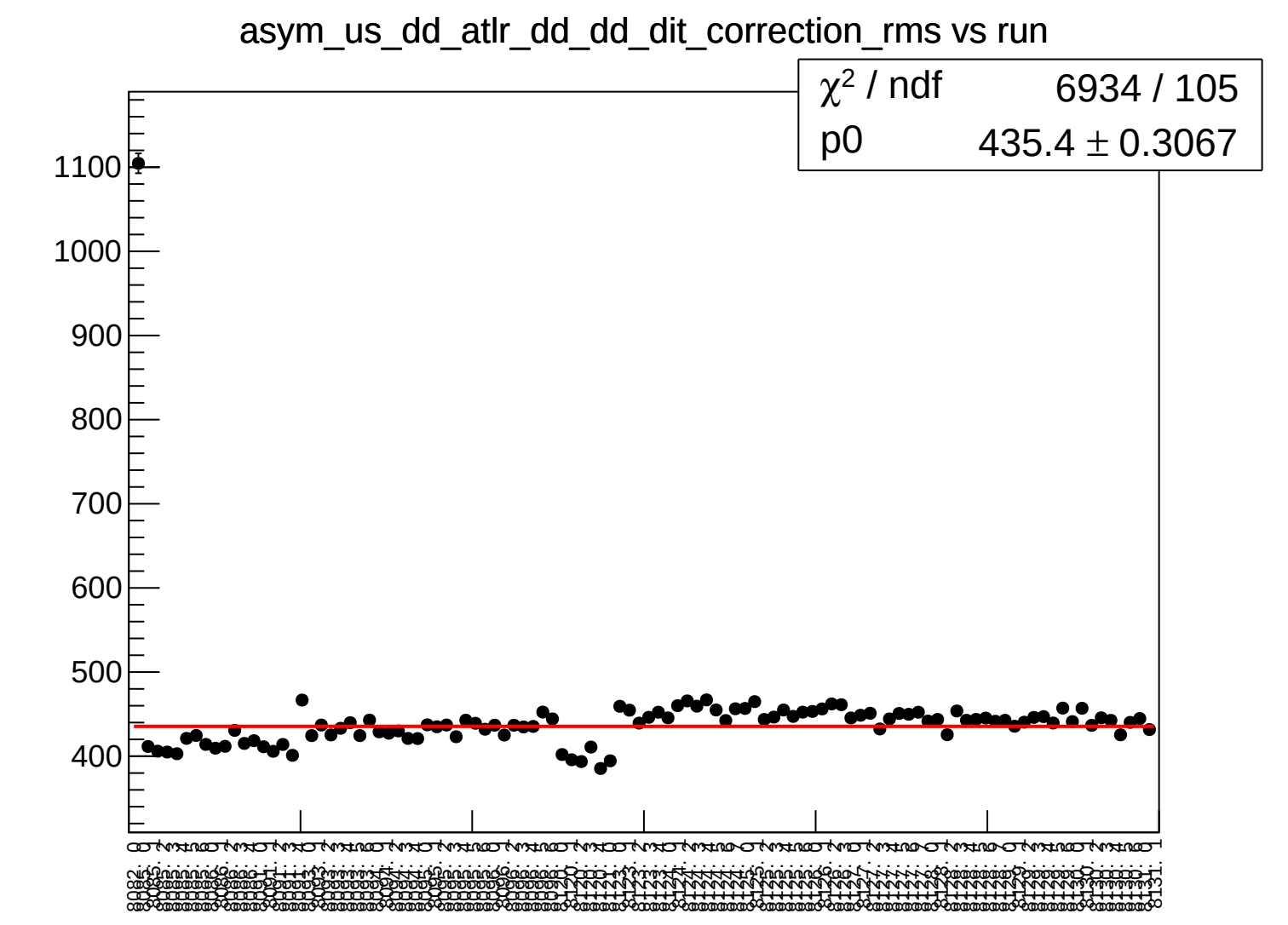

dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 100.9 / 104
p0 −188.8 ± 1015
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 105
Mean −298.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

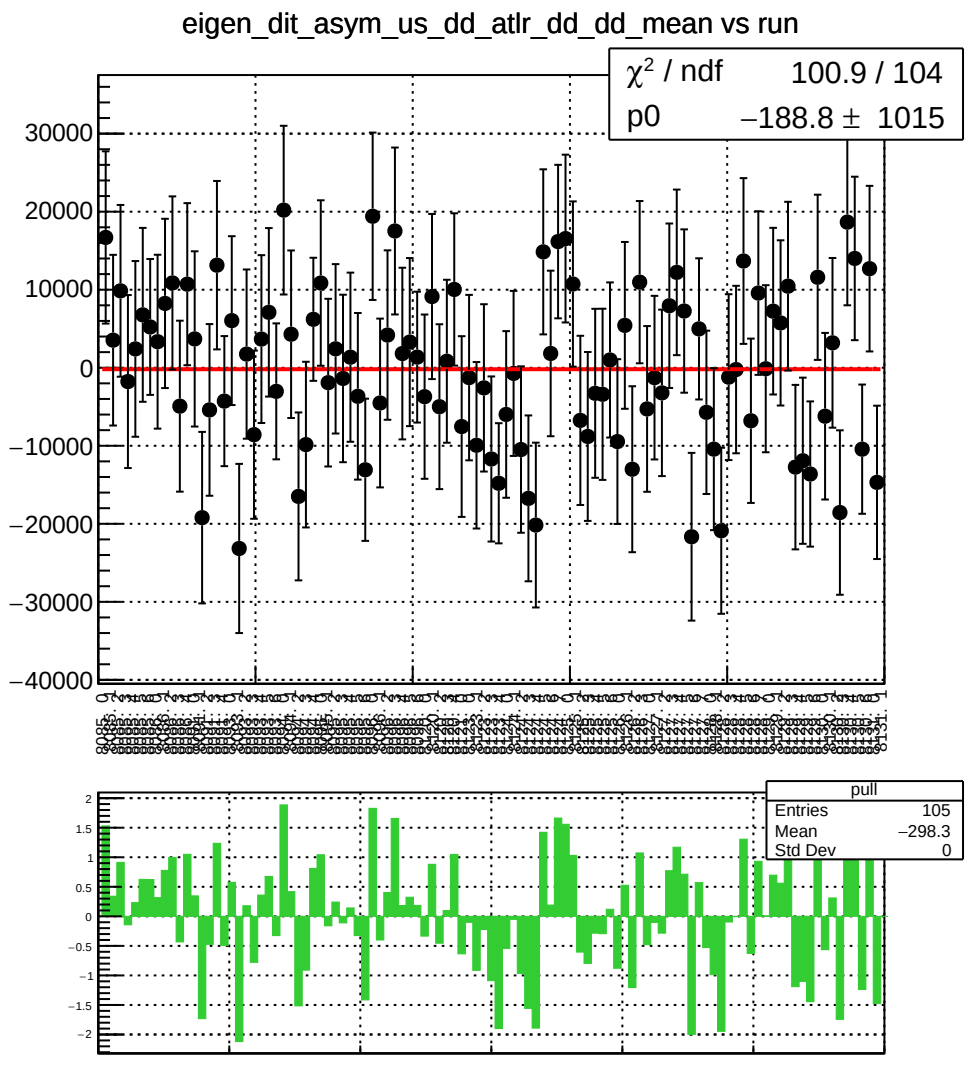

pull1D
Entries 105
Mean 0.01061
Std Dev 0.9801
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

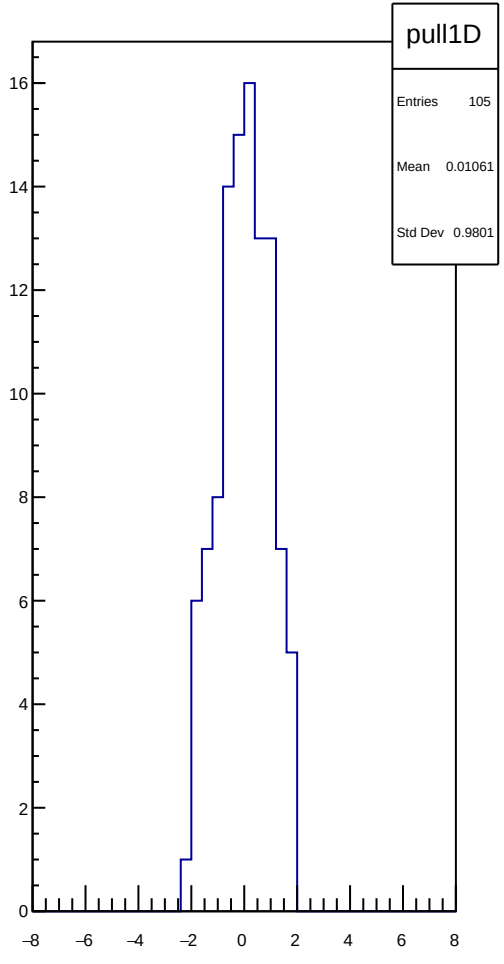

dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 543.5 / 104
p0 1018 ± 0.7177
1080
1060
1040
1020
1000
980

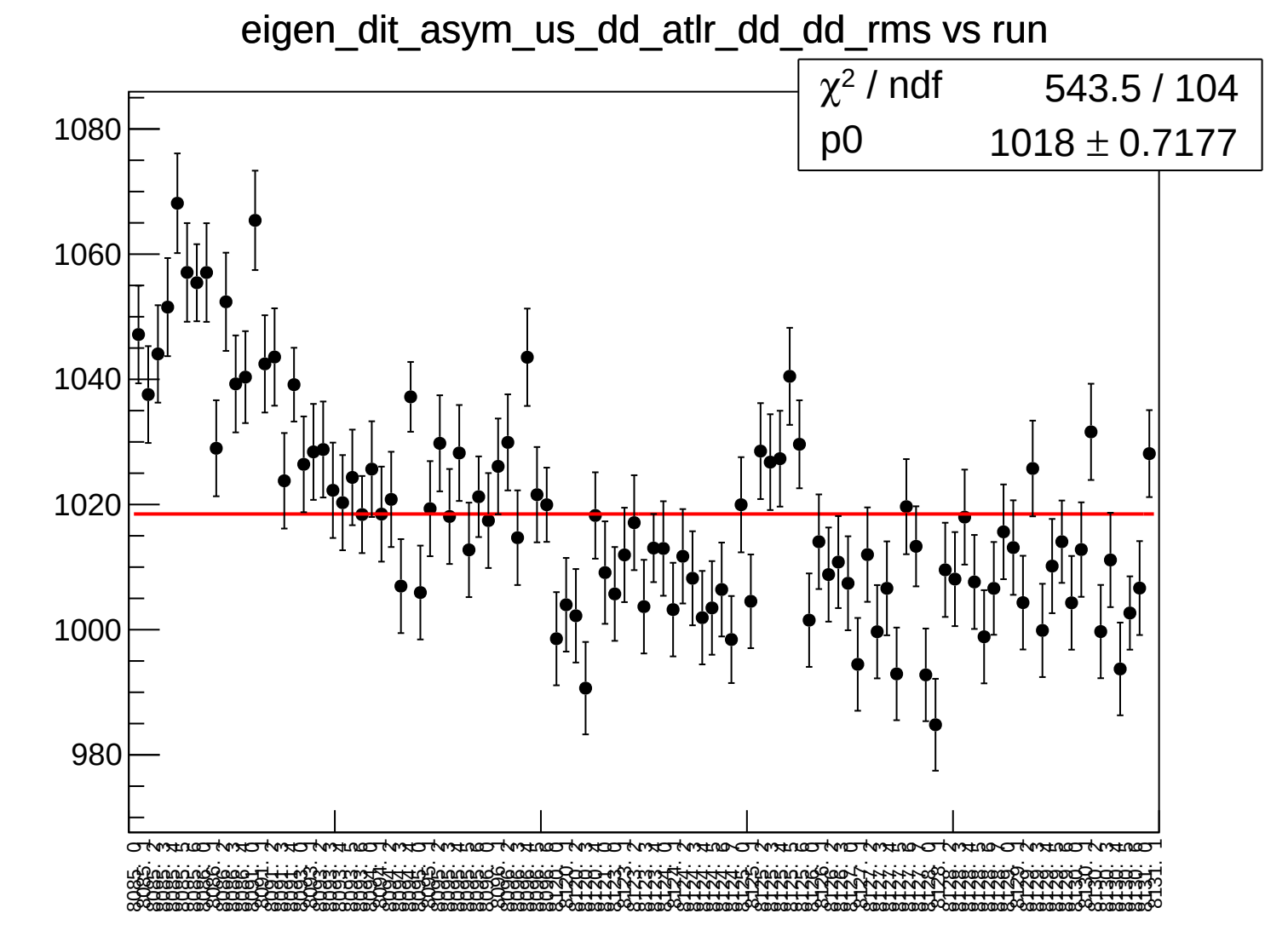

asym_us_dd_atlr_dd_dd_dit_correction_mean vs run
χ² / ndf 111.1 / 105
p0 346.9 ± 433.7
40000
30000
20000
10000
0
−10000
−20000
pull
Entries 106
Mean −1390
Std Dev 0
2
1
0
−1
−2

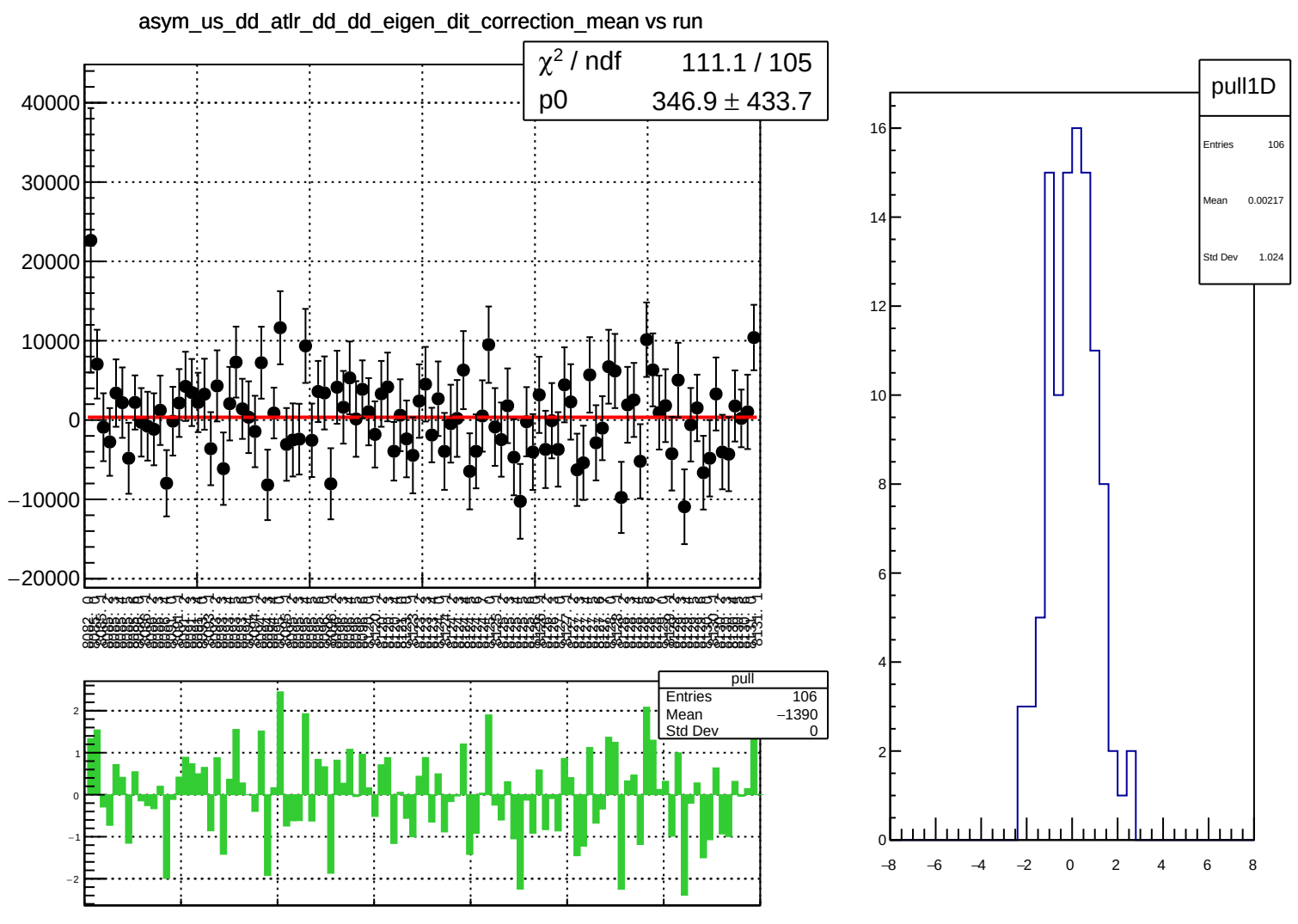

pull1D
Entries 106
Mean 0.00217
Std Dev 1.024
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

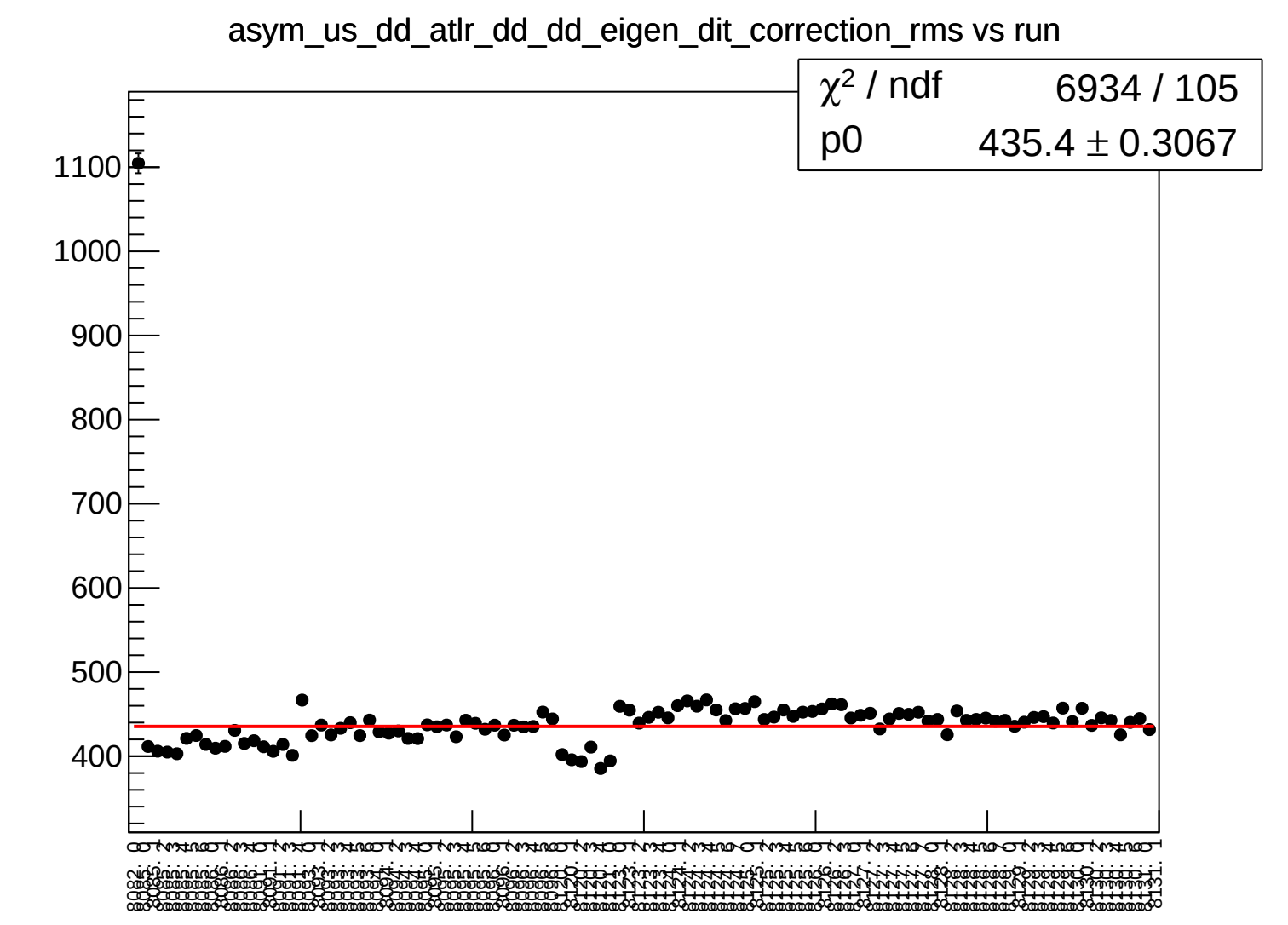

asym_us_dd_atlr_dd_dd_dit_correction_rms vs run
χ² / ndf 6934 / 105
p0 435.4 ± 0.3067
1100
1000
900
800
700
600
500
400

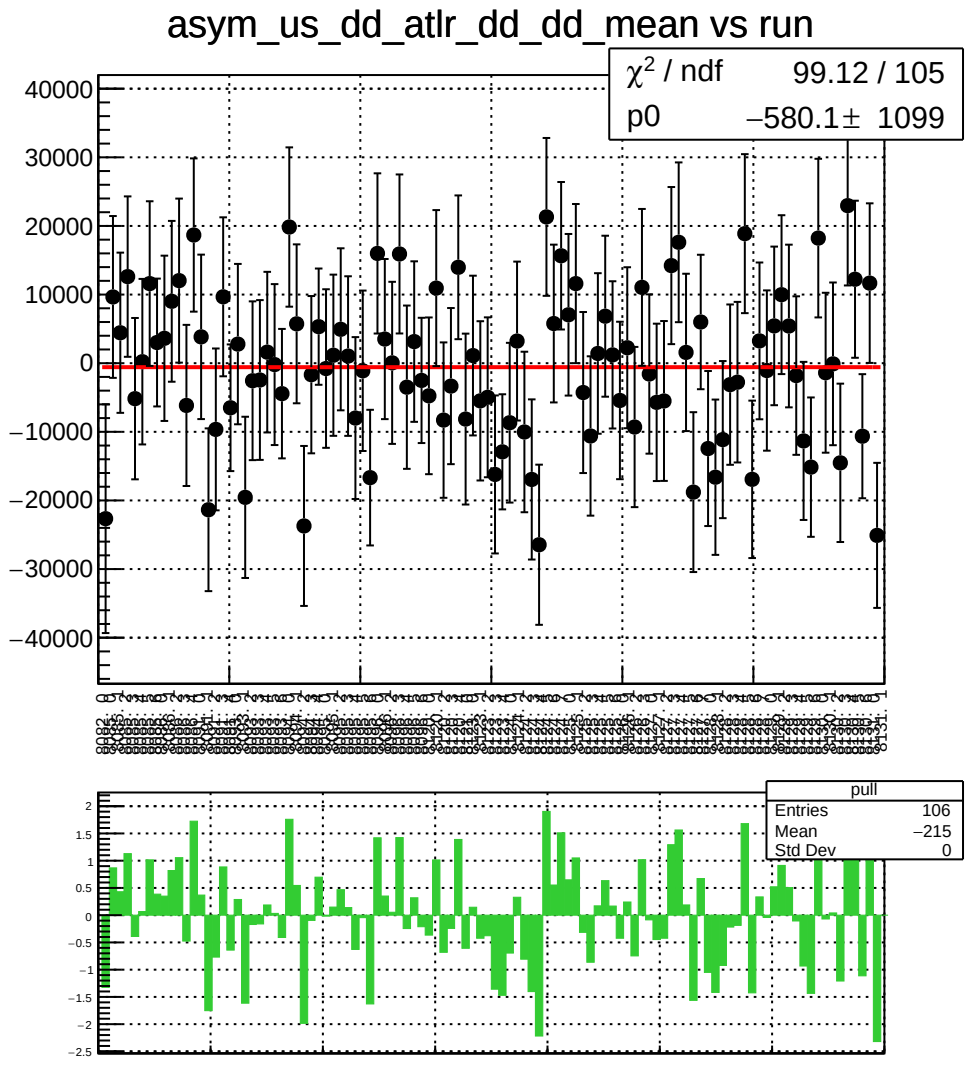

eigen_dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 100.9 / 104
p0 −188.8 ± 1015
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 105
Mean −298.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

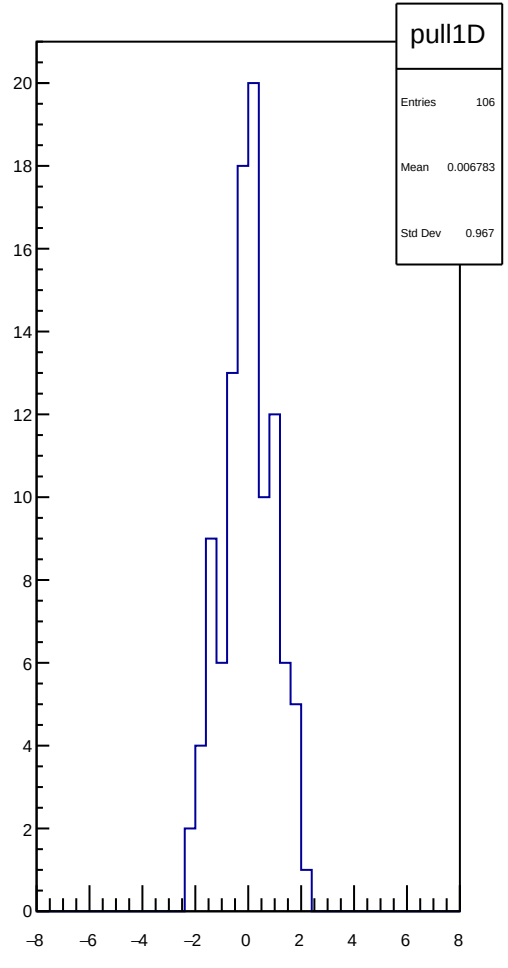

pull1D
Entries 105
Mean 0.01061
Std Dev 0.9801
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

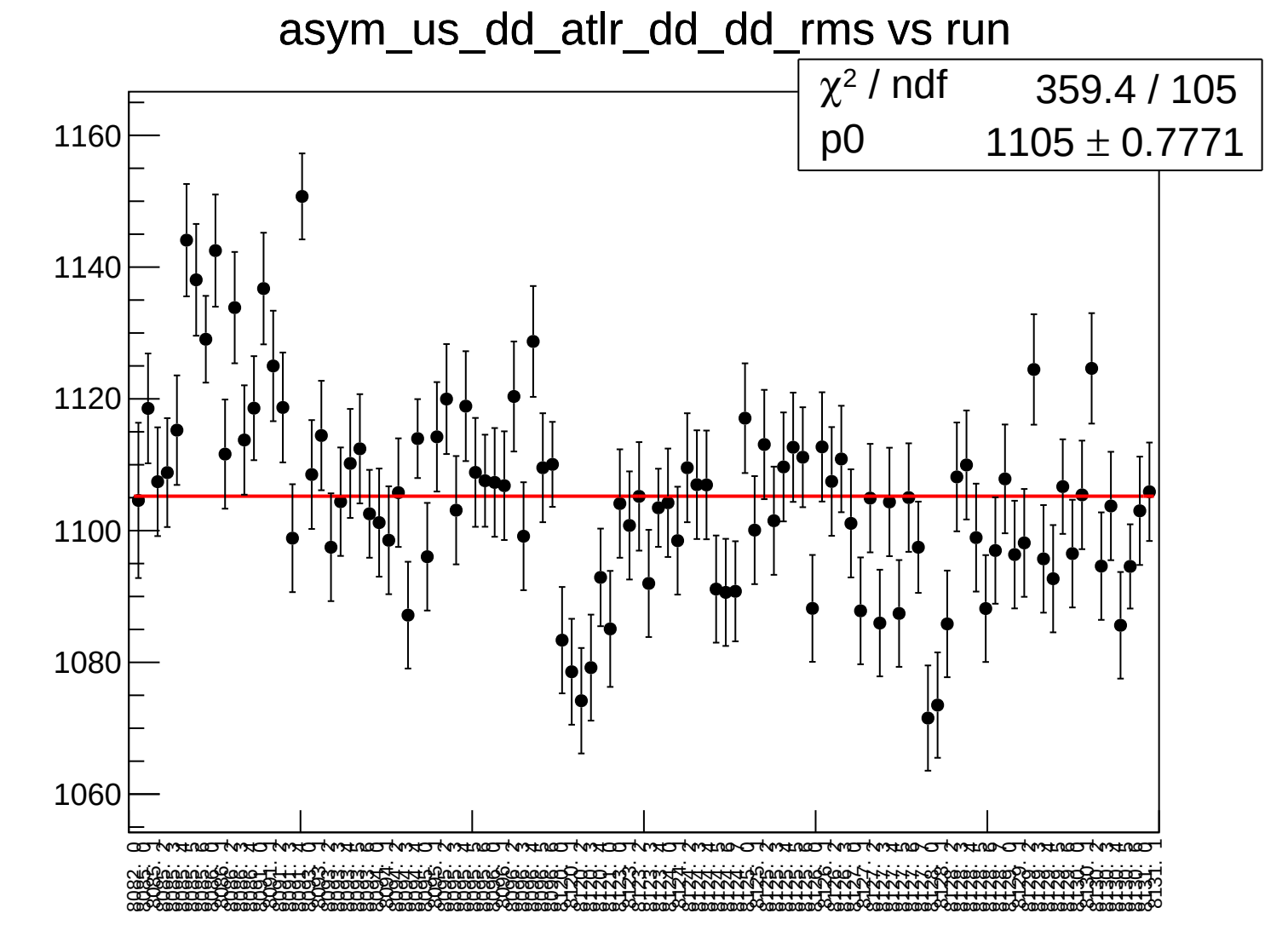

eigen_dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 543.5 / 104
p0 1018 ± 0.7177
1080
1060
1040
1020
1000
980

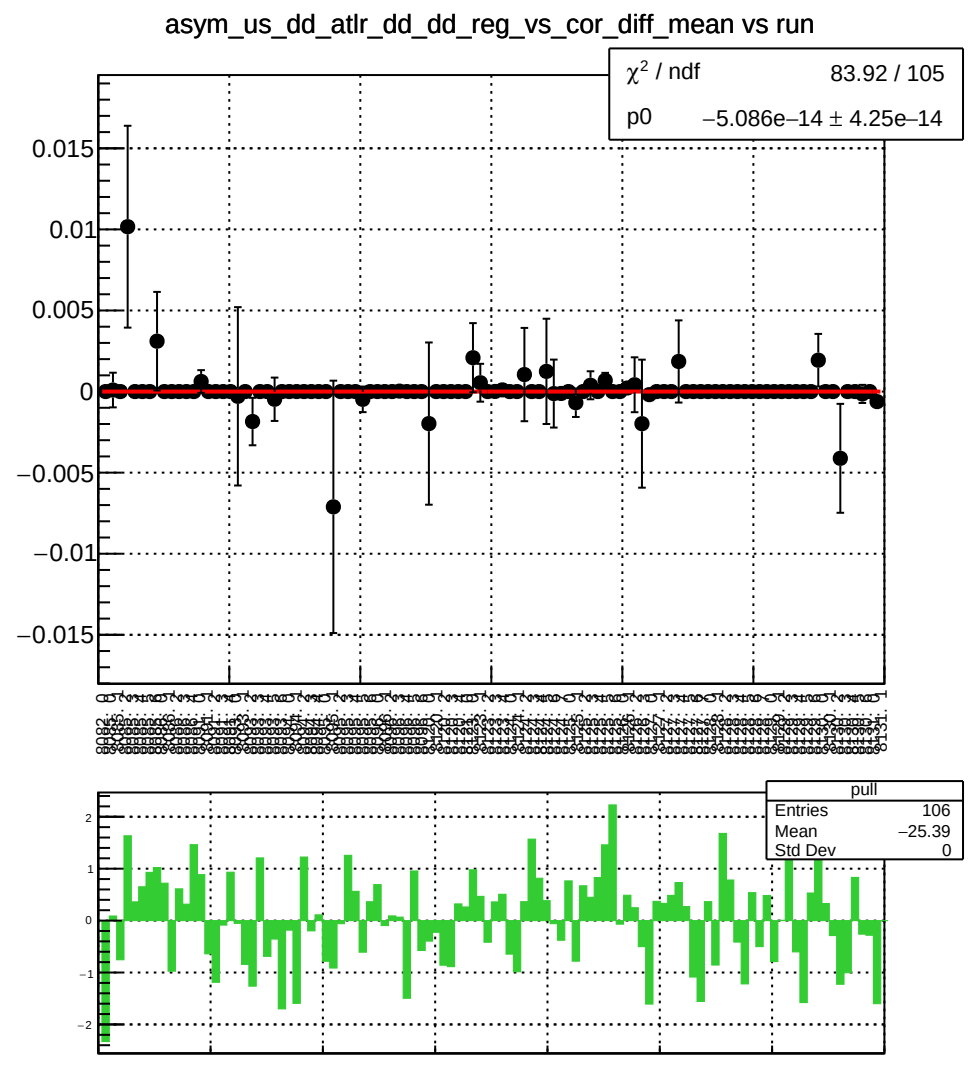

asym_us_dd_atlr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 111.1 / 105
p0 346.9 ± 433.7
40000
30000
20000
10000
0
−10000
−20000
pull
Entries 106
Mean −1390
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 106
Mean 0.00217
Std Dev 1.024
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

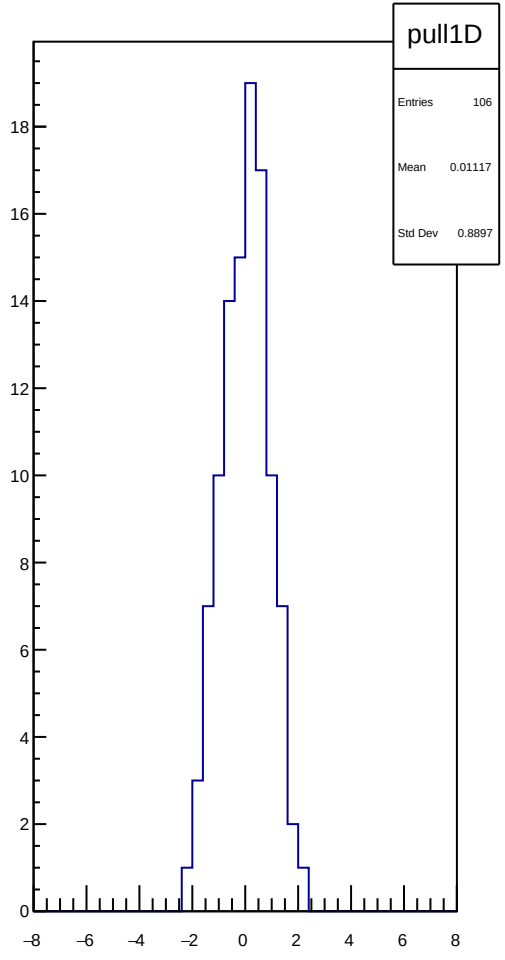

asym_us_dd_atlr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 6934 / 105
p0 435.4 ± 0.3067
1100
1000
900
800
700
600
500
400

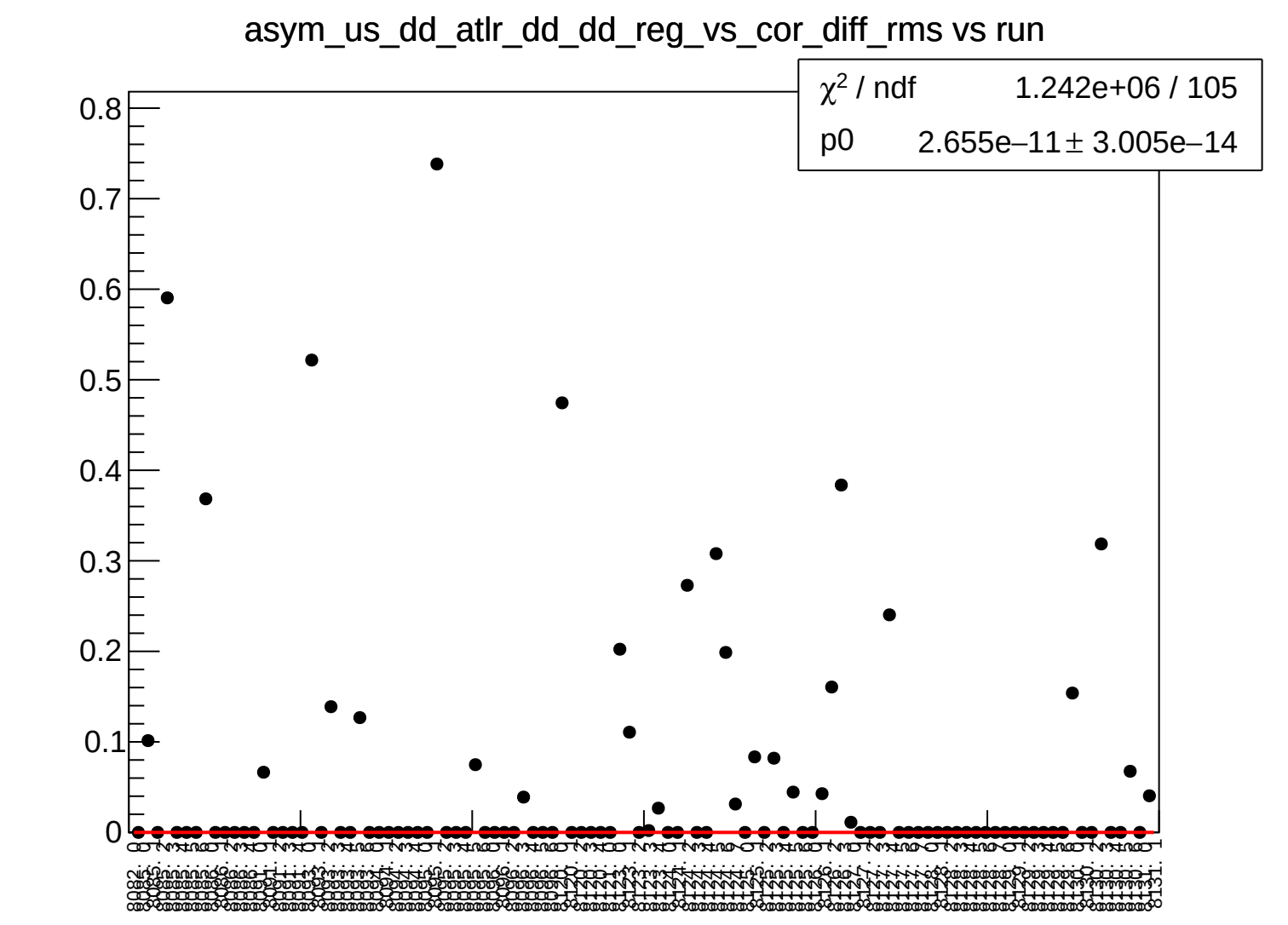

asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 99.12 / 105
p0 −580.1± 1099
pull
Entries 106
Mean −215
Std Dev 0

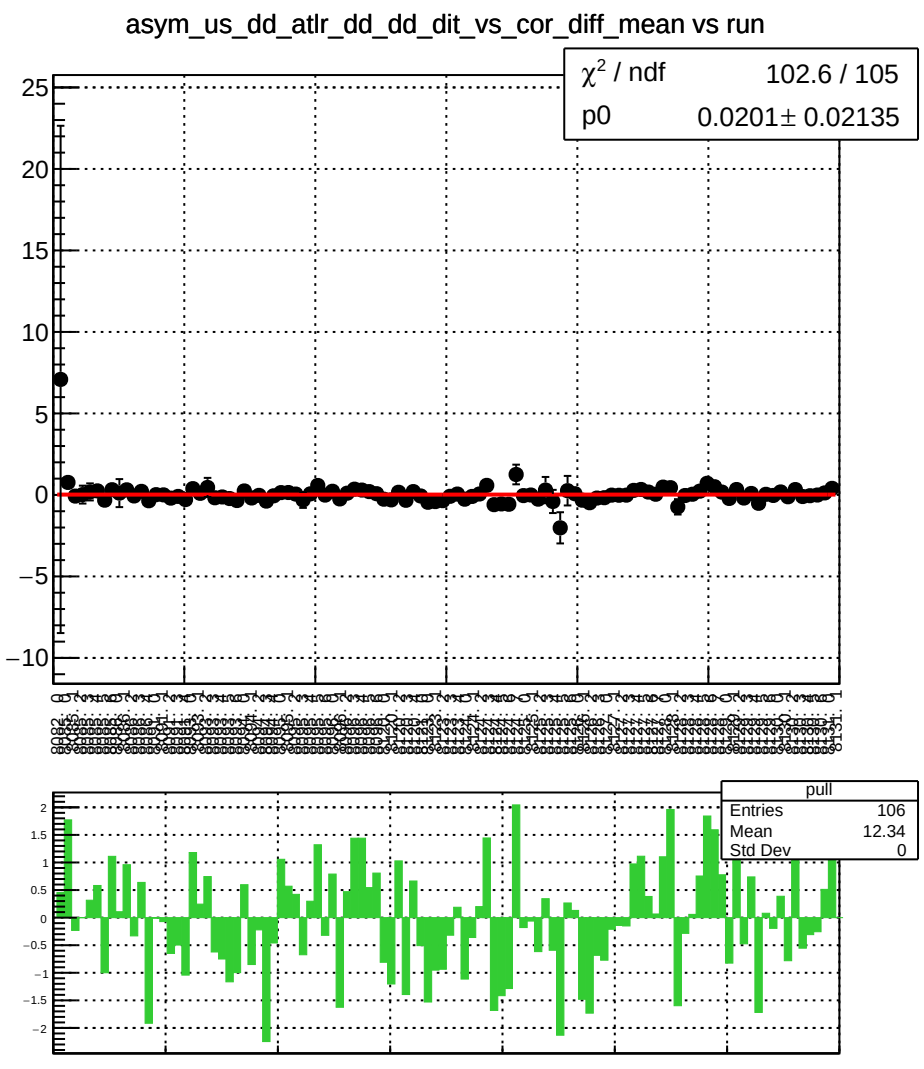

pull1D
Entries 106
Mean 0.006783
Std Dev 0.967

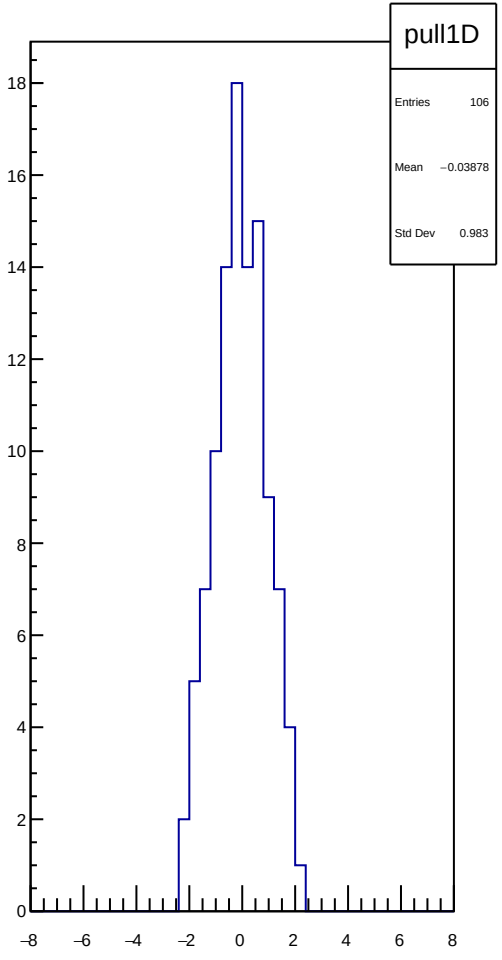

asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 359.4 / 105
p0 1105 ± 0.7771
1160
1140
1120
1100
1080
1060

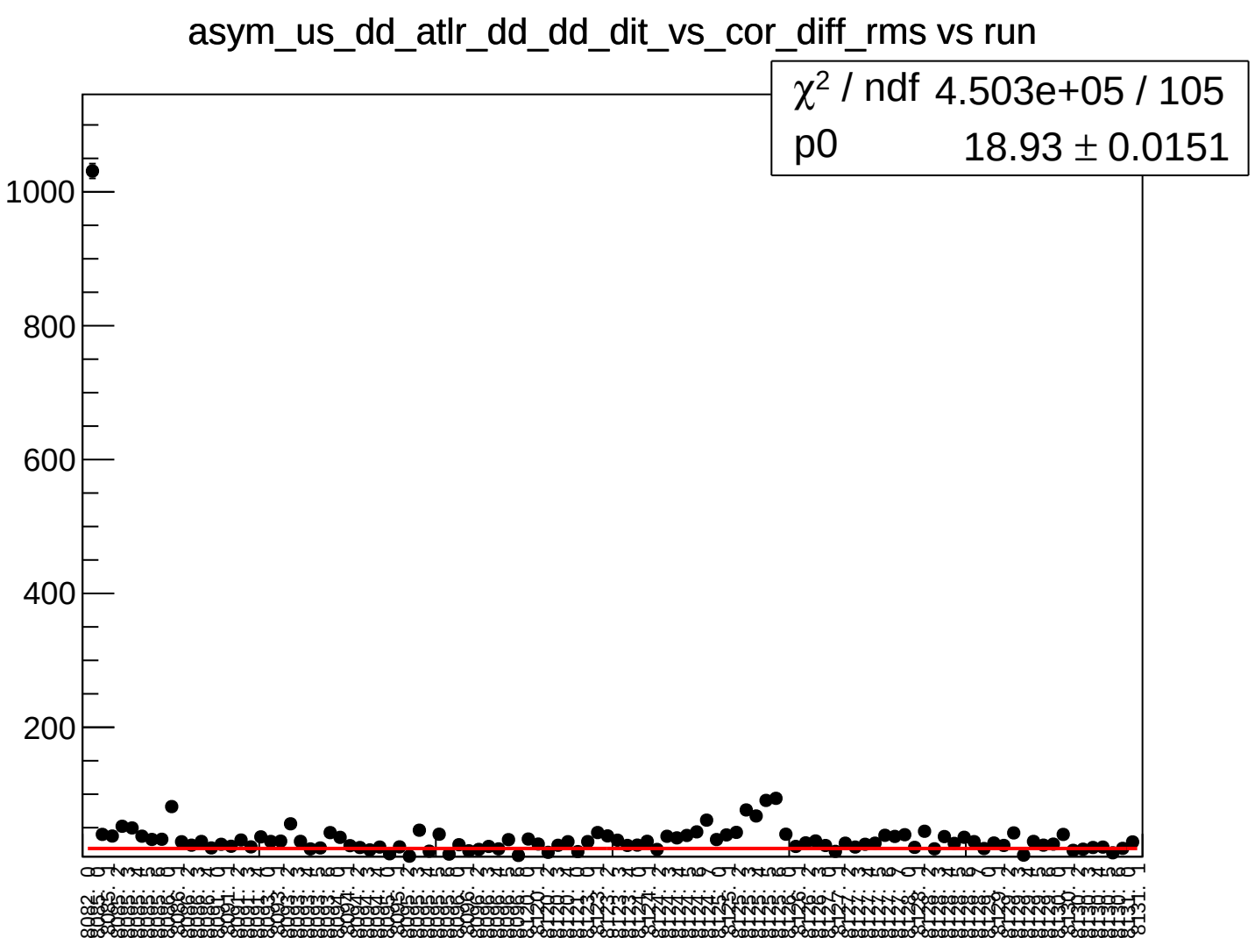

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 83.92 / 105
p0 −5.086e−14 ± 4.25e−14
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 106
Mean −25.39
Std Dev 0
2
1
0
−1
−2

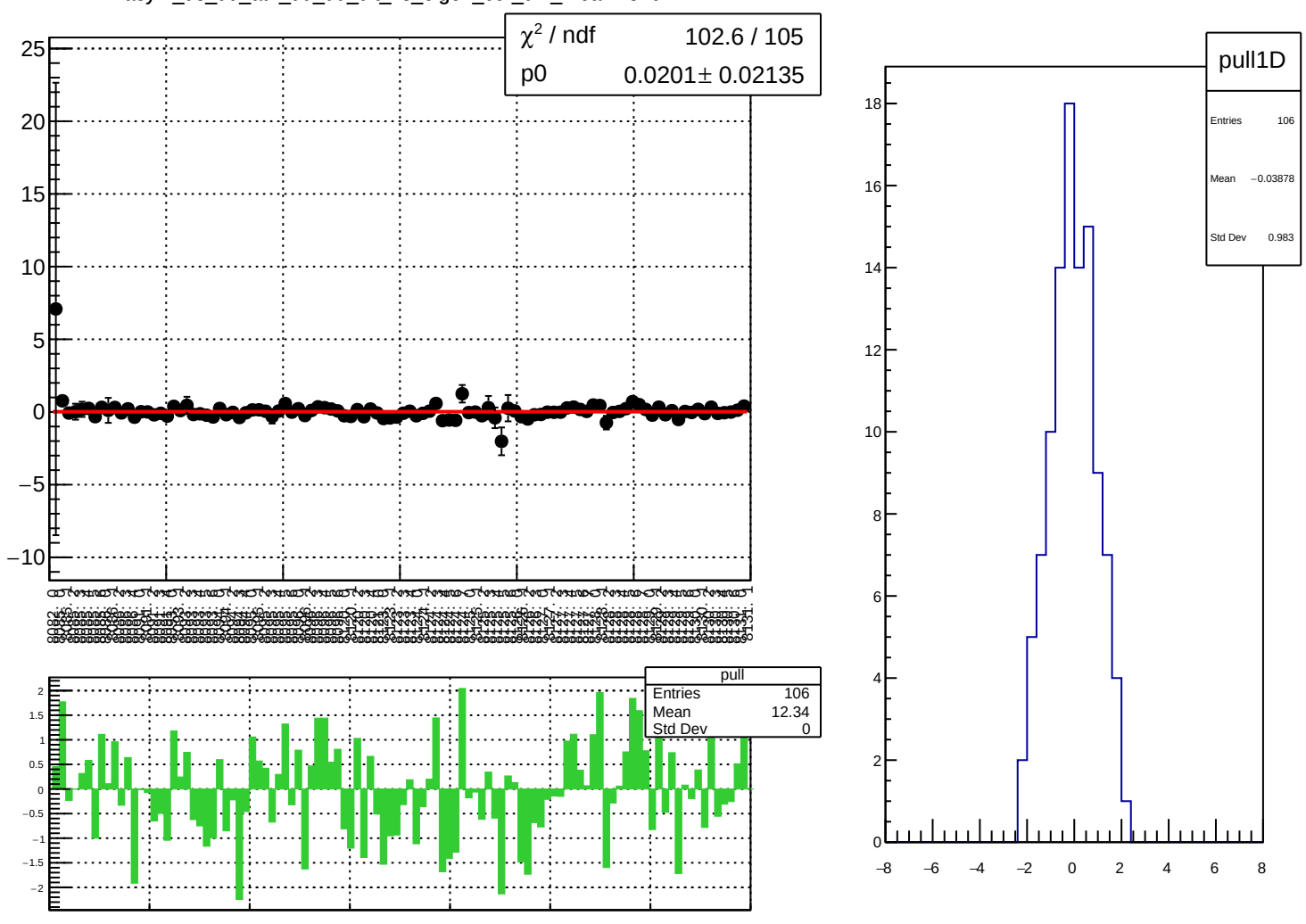

pull1D
Entries 106
Mean 0.01117
Std Dev 0.8897
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

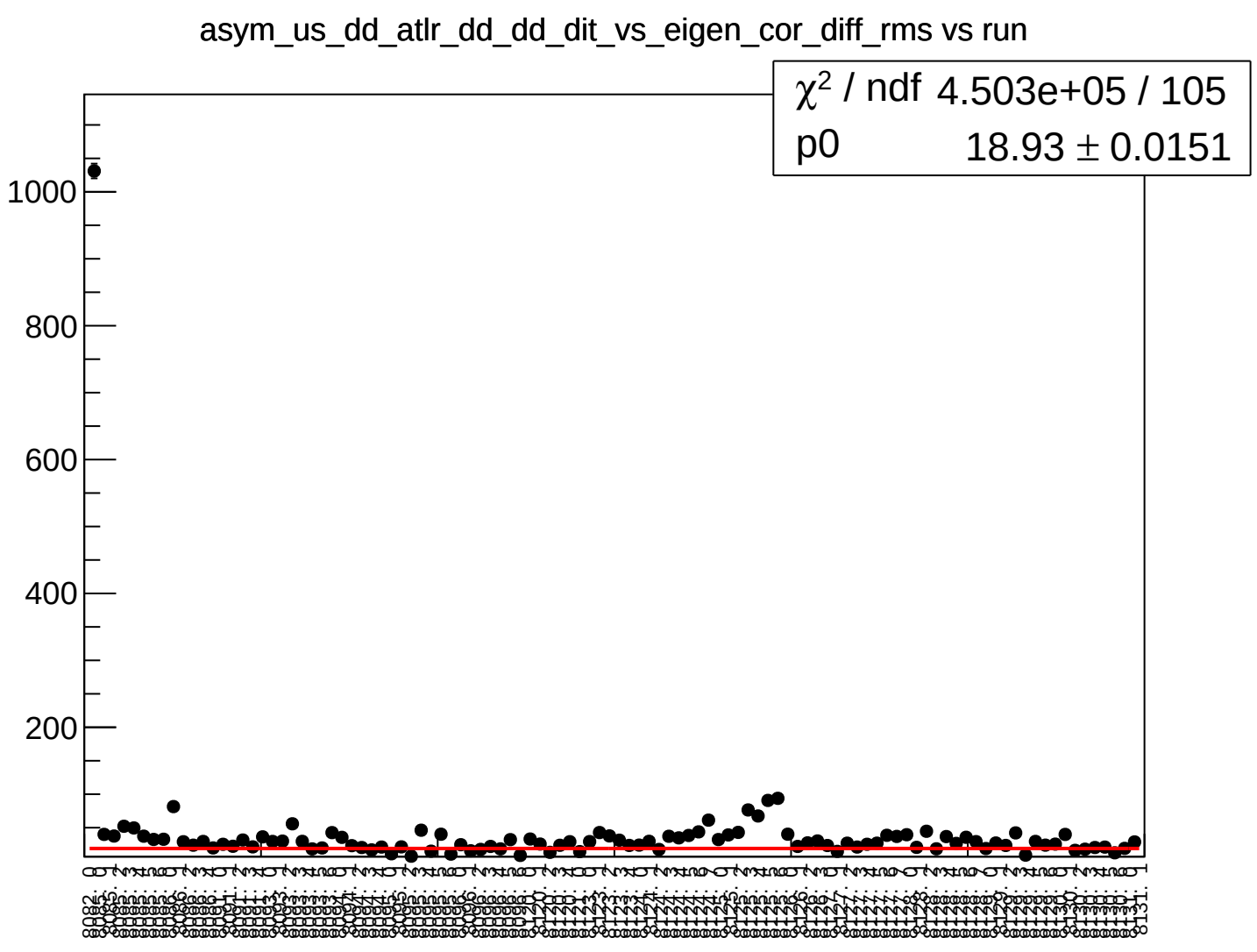

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.242e+06 / 105
p0 2.655e−11 ± 3.005e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

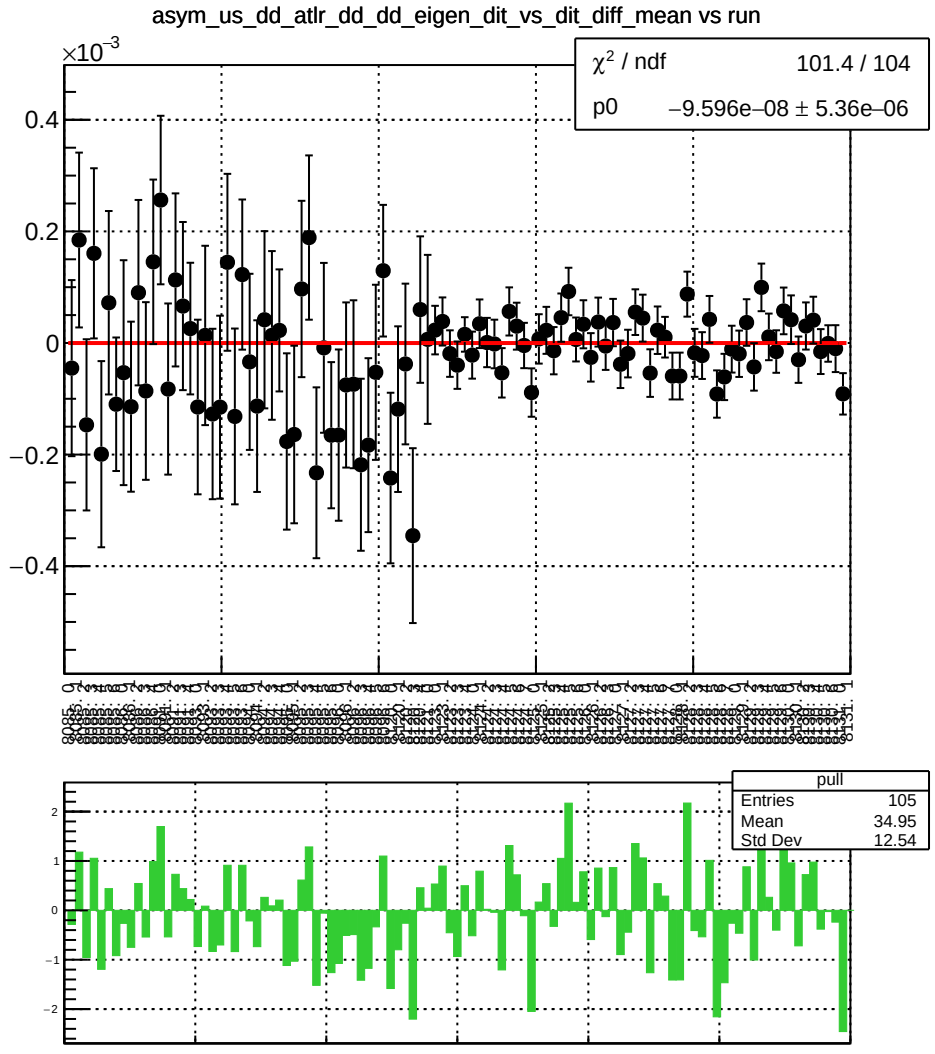

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 102.6 / 105
p0 0.0201± 0.02135
pull
Entries 106
Mean 12.34
Std Dev 0

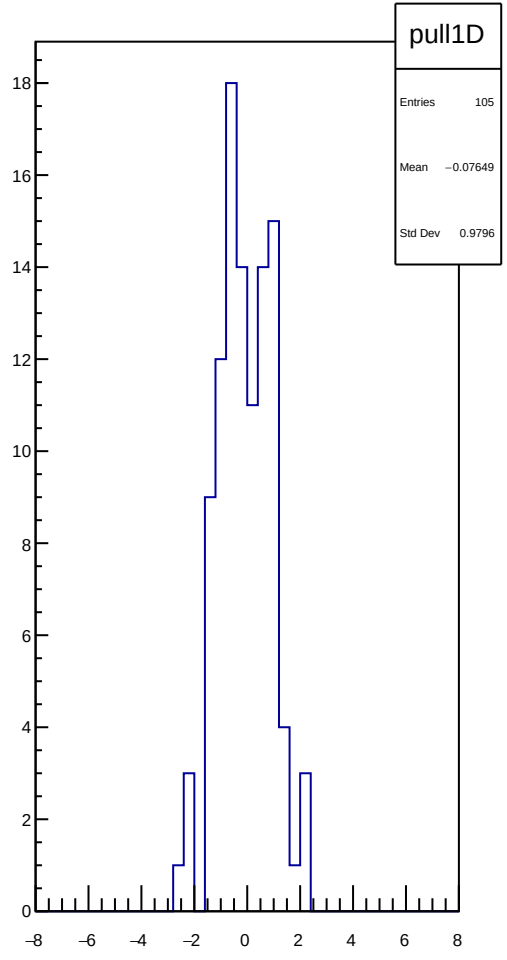

pull1D
Entries 106
Mean −0.03878
Std Dev 0.983

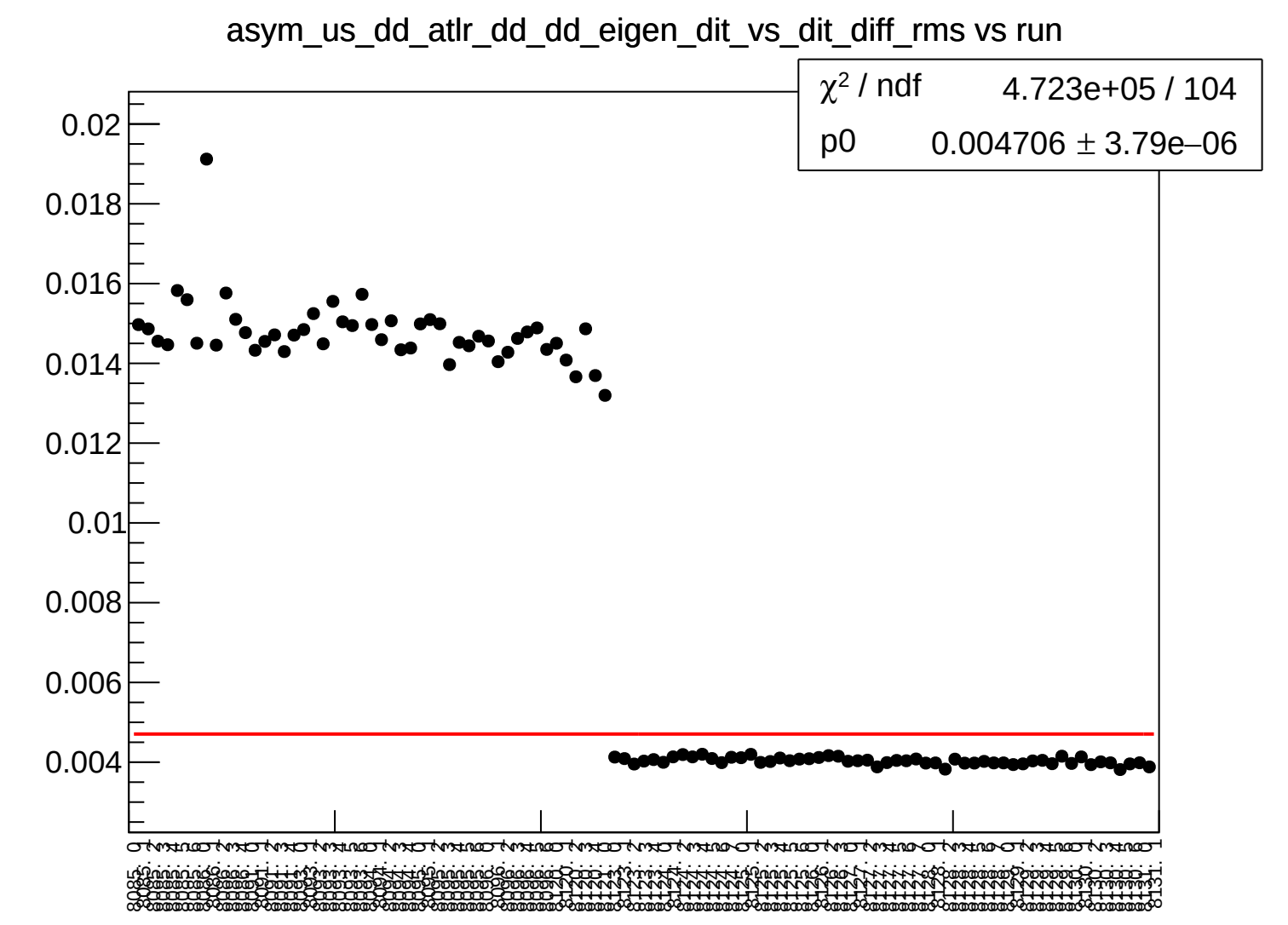

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 4.503e+05 / 105
p0 18.93 ± 0.0151
1000
800
600
400
200

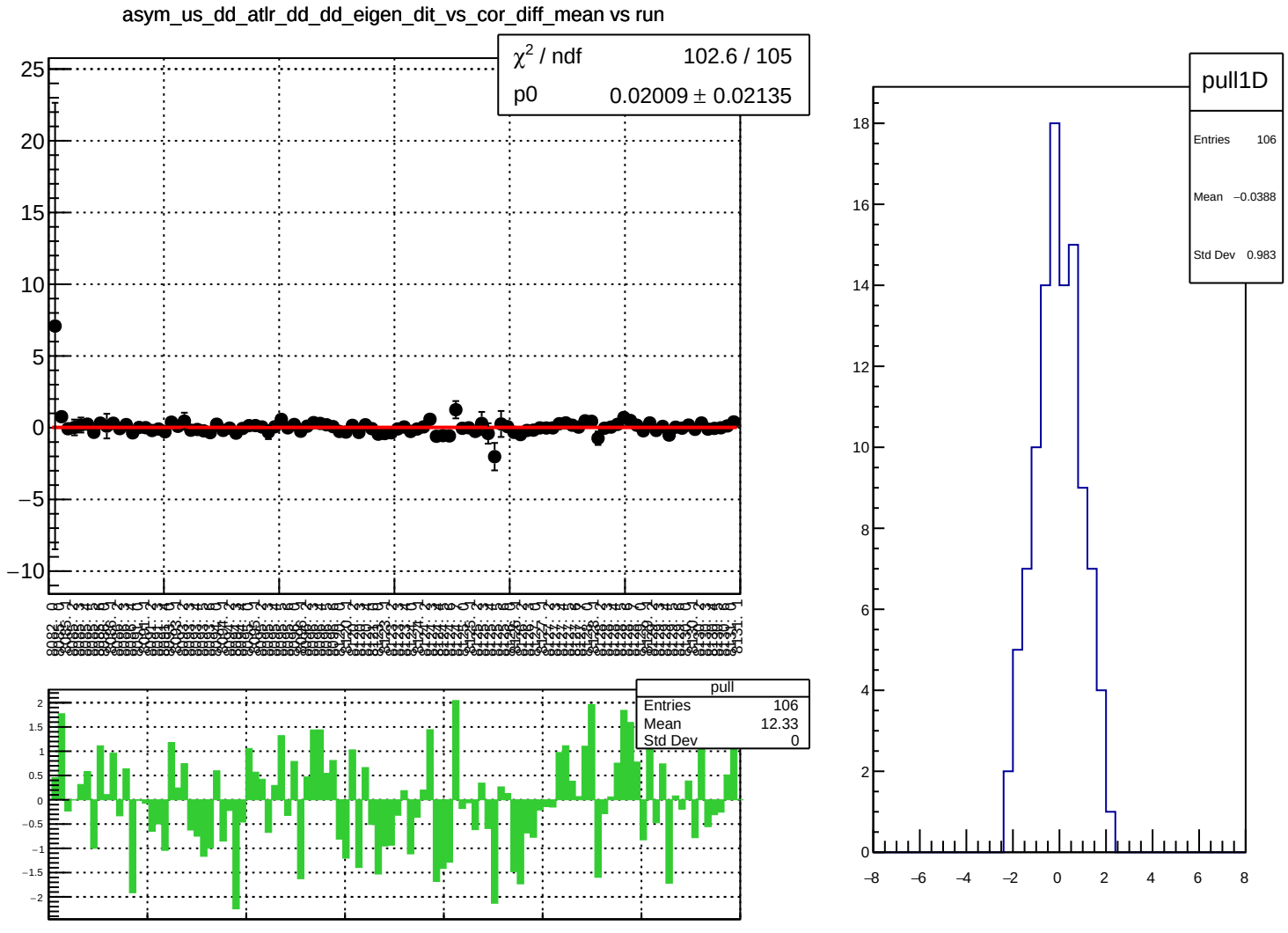

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.6 / 105
p0 0.0201± 0.02135
pull
Entries 106
Mean 12.34
Std Dev 0
pull1D
Entries 106
Mean −0.03878
Std Dev 0.983

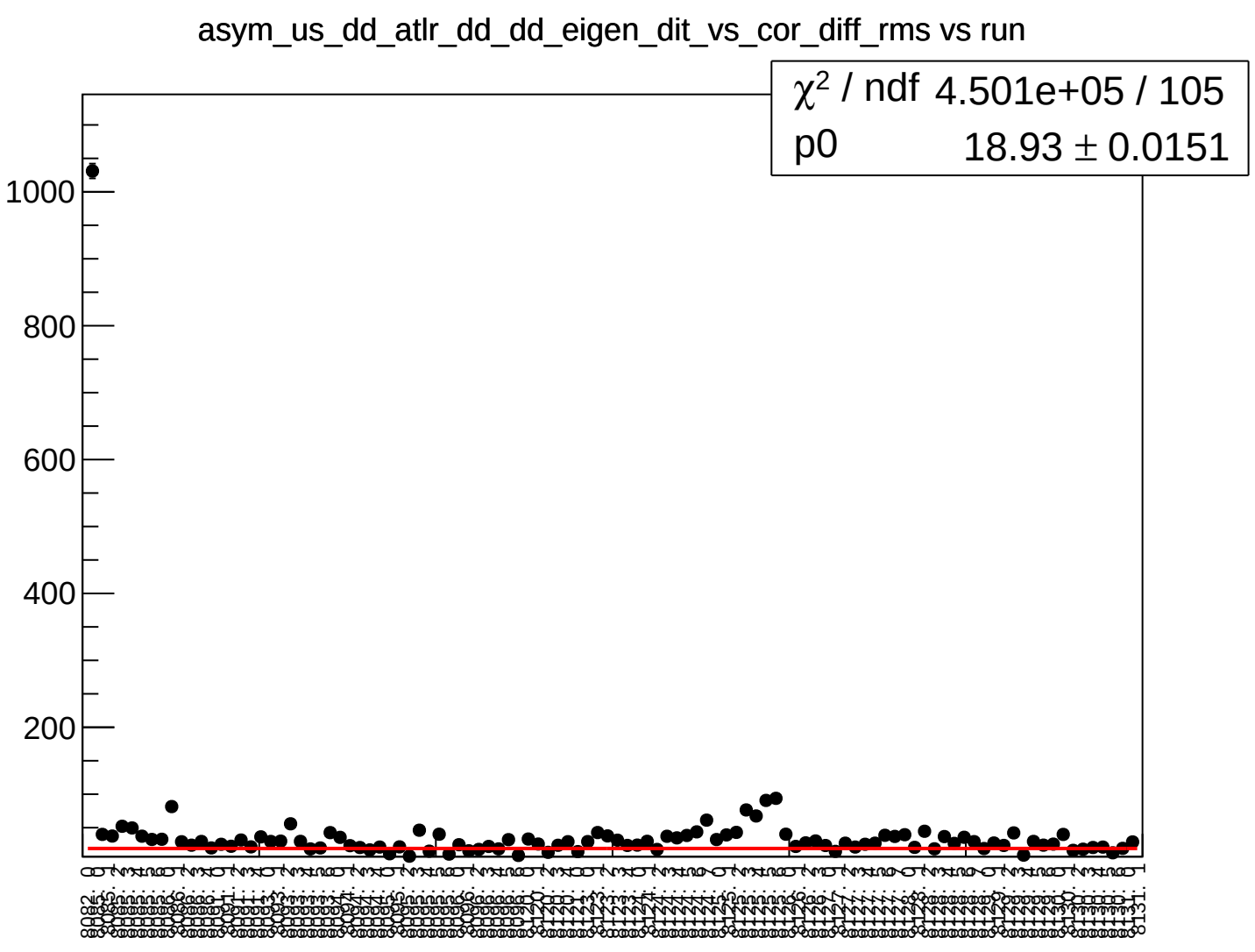

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.503e+05 / 105
p0 18.93 ± 0.0151
1000
800
600
400
200

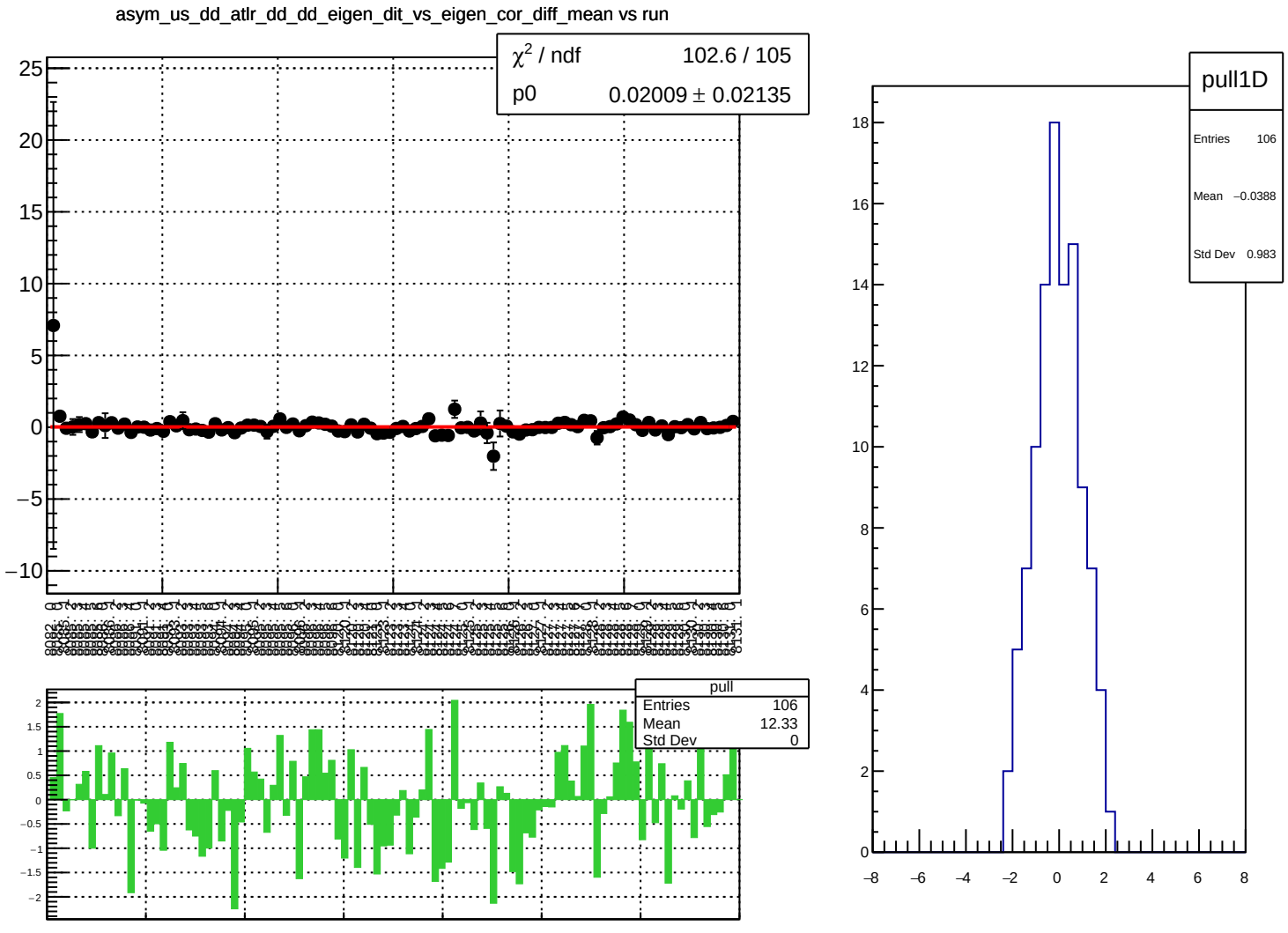

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 101.4 / 104
p0 −9.596e−08 ± 5.36e−06
0.4
0.2
0
−0.2
−0.4
pull
Entries 105
Mean 34.95
Std Dev 12.54
2
1
0
−1
−2

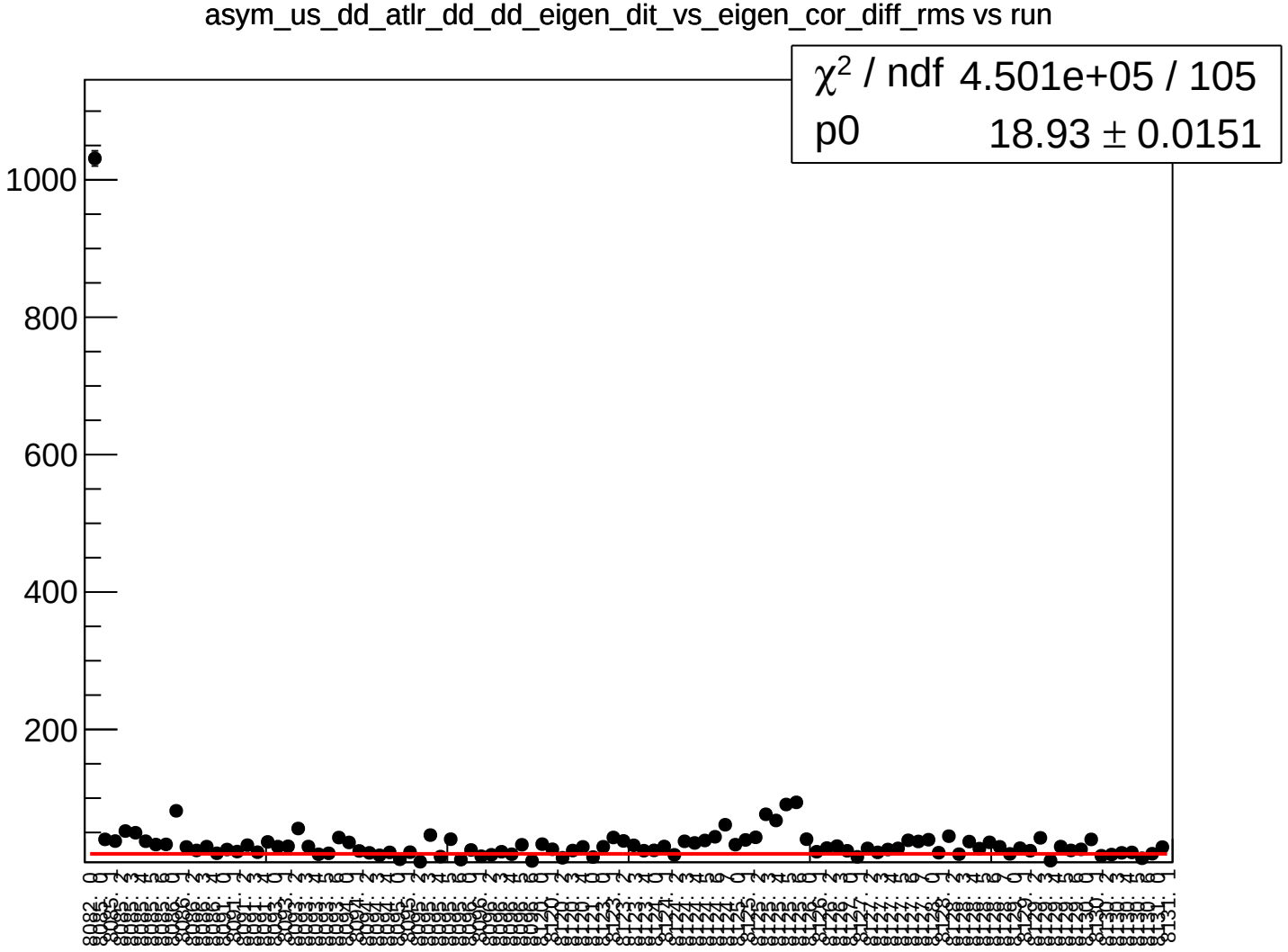

pull1D
Entries 105
Mean −0.07649
Std Dev 0.9796
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

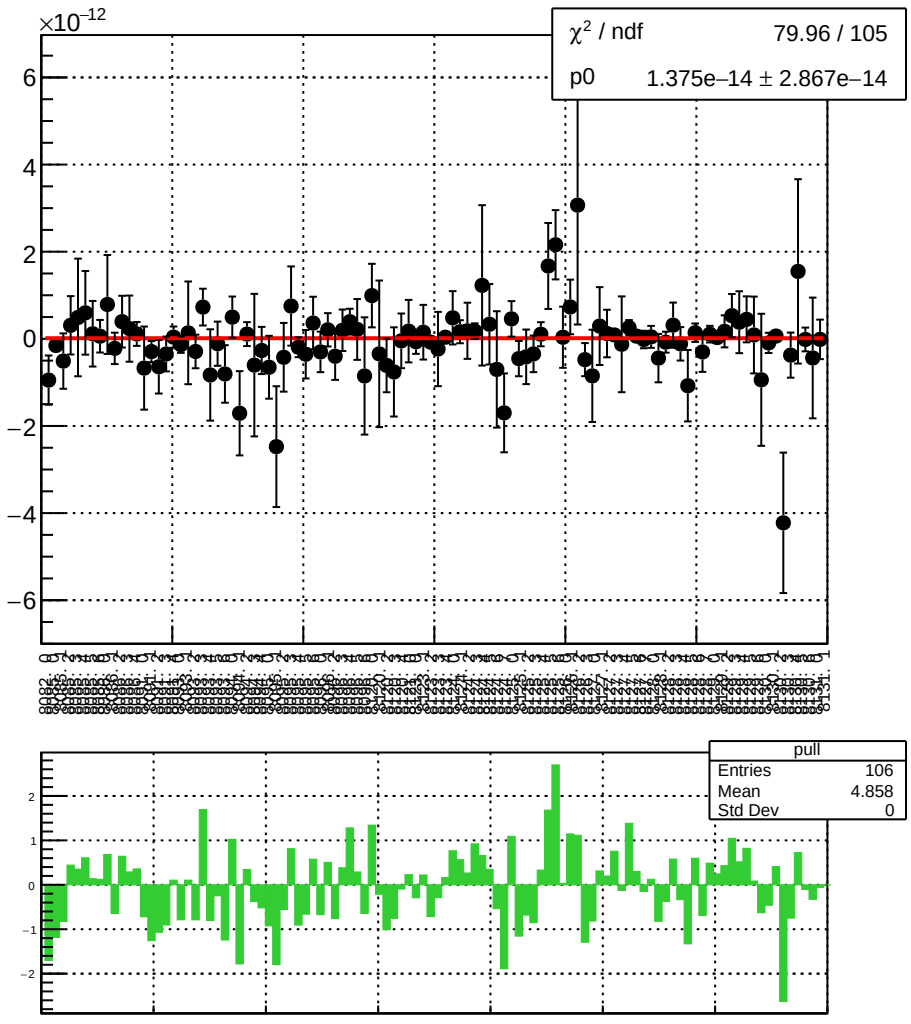

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.723e+05 / 104
p0 0.004706 ± 3.79e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

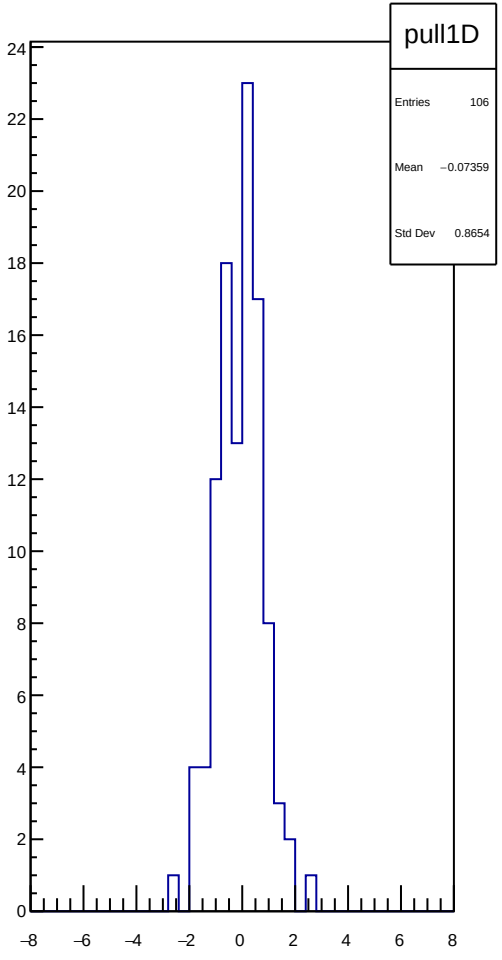

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 102.6 / 105
p0 0.02009 ± 0.02135
pull
Entries 106
Mean 12.33
Std Dev 0
pull1D
Entries 106
Mean −0.0388
Std Dev 0.983

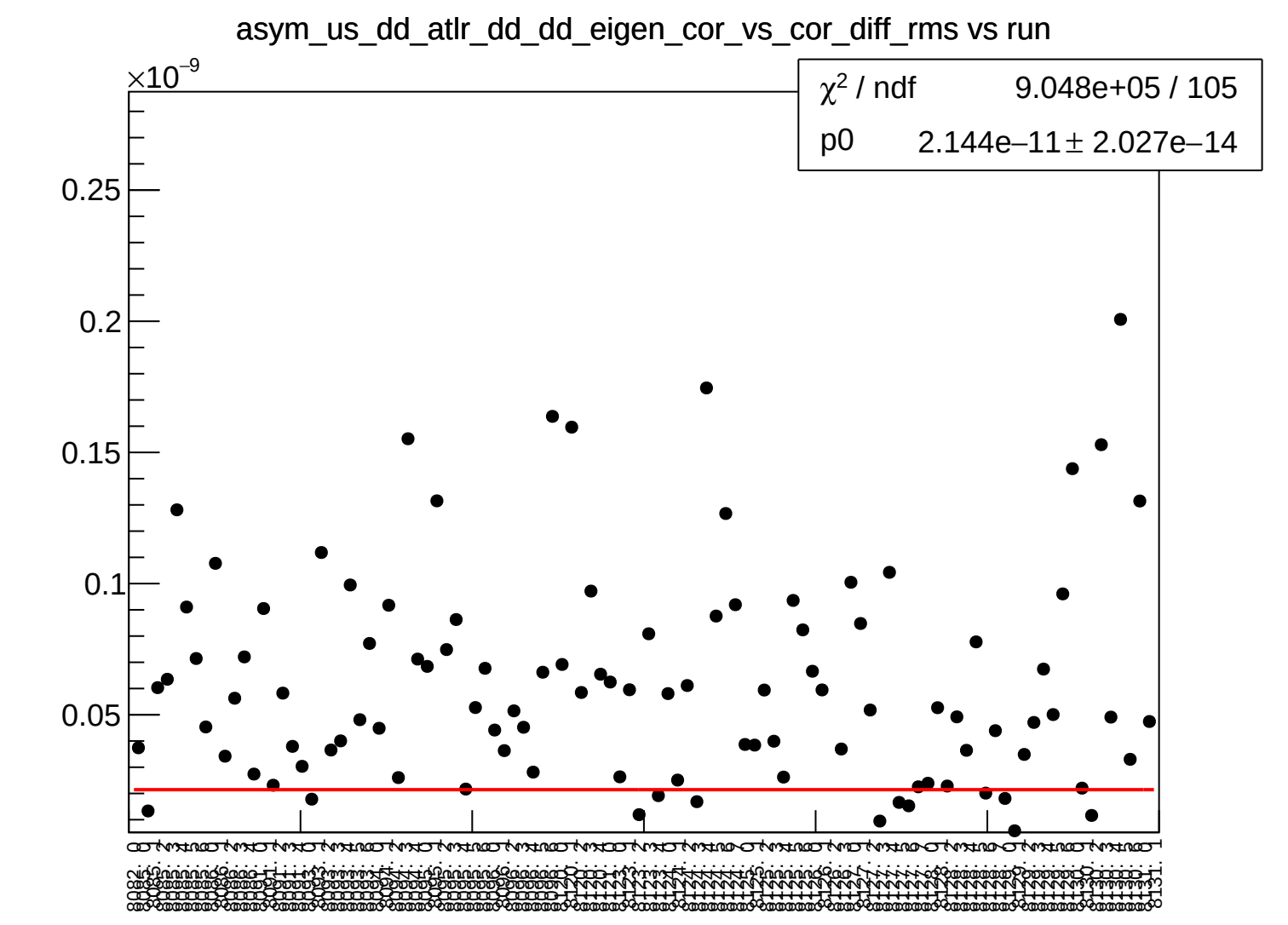

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 4.501e+05 / 105
p0 18.93 ± 0.0151
1000
800
600
400
200

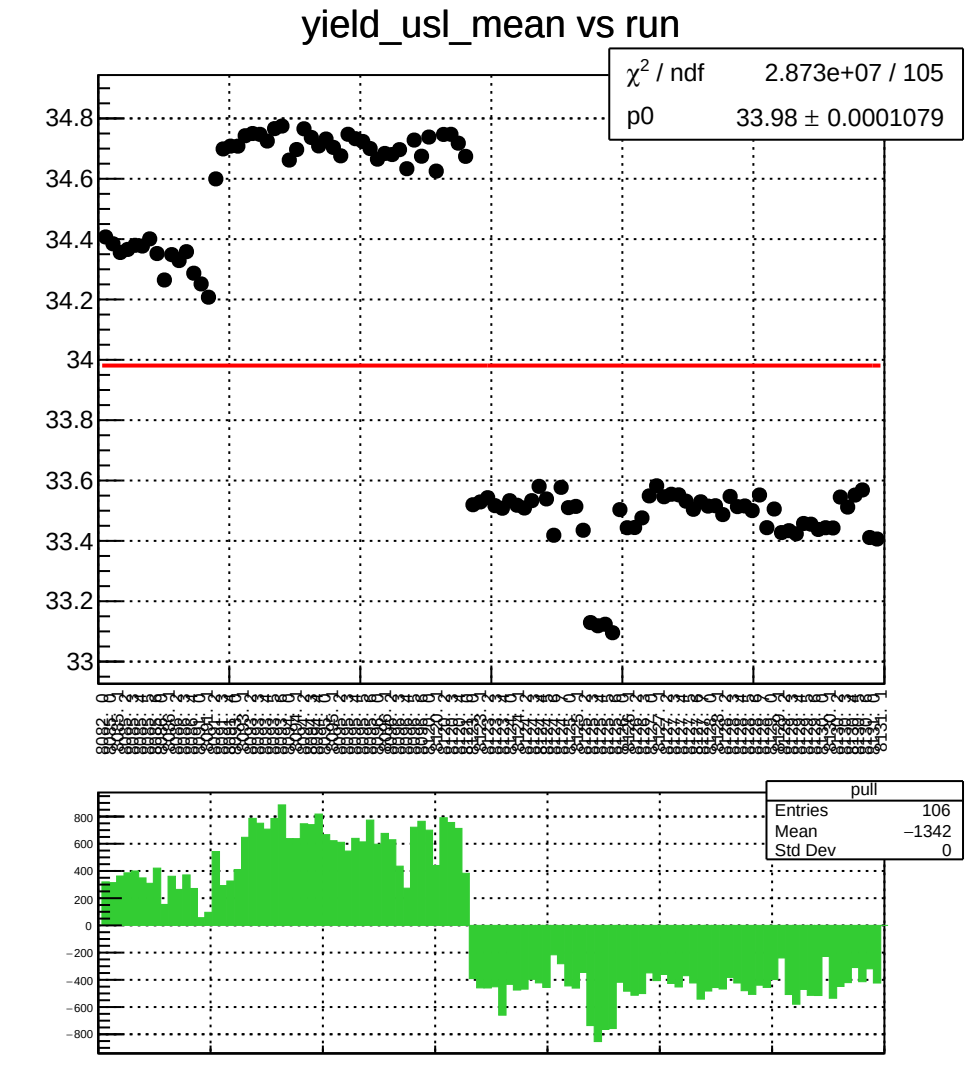

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.6 / 105
p0 0.02009 ± 0.02135
pull
Entries 106
Mean 12.33
Std Dev 0
pull1D
Entries 106
Mean −0.0388
Std Dev 0.983

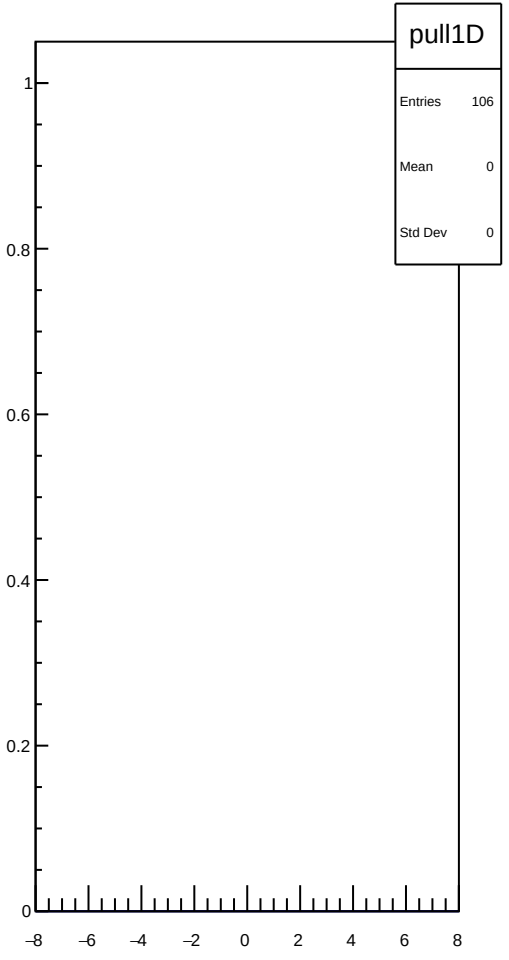

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.501e+05 / 105
p0 18.93 ± 0.0151
1000
800
600
400
200

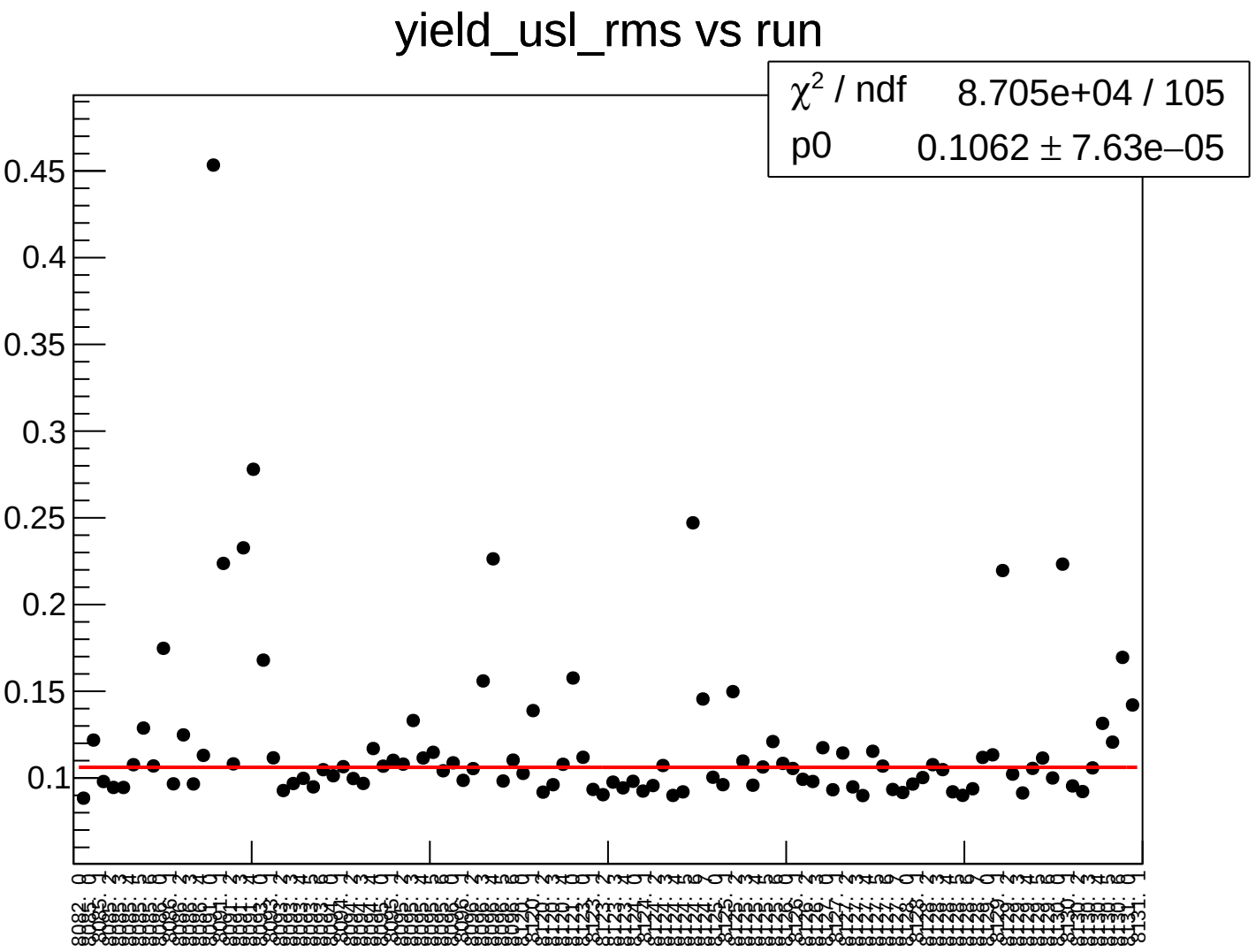

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 79.96 / 105
p0 1.375e−14 ± 2.867e−14
pull
Entries 106
Mean 4.858
Std Dev 0

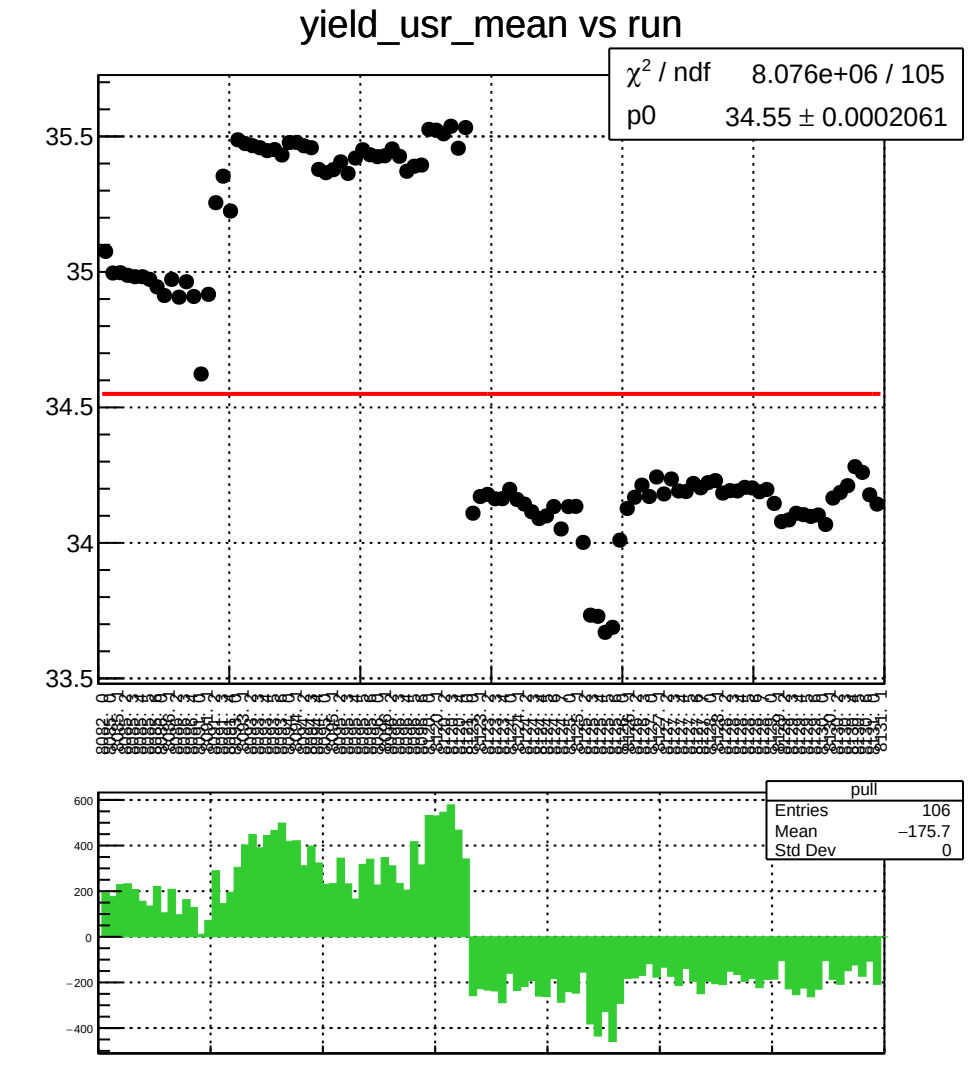

pull1D
Entries 106
Mean −0.07359
Std Dev 0.8654

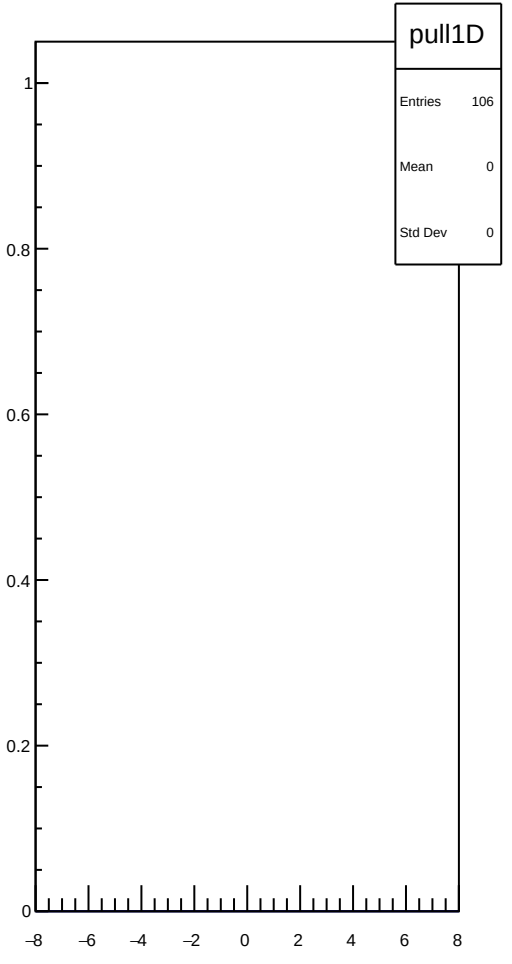

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.048e+05 / 105
p0 2.144e−11 ± 2.027e−14
0.25
0.2
0.15
0.1
0.05

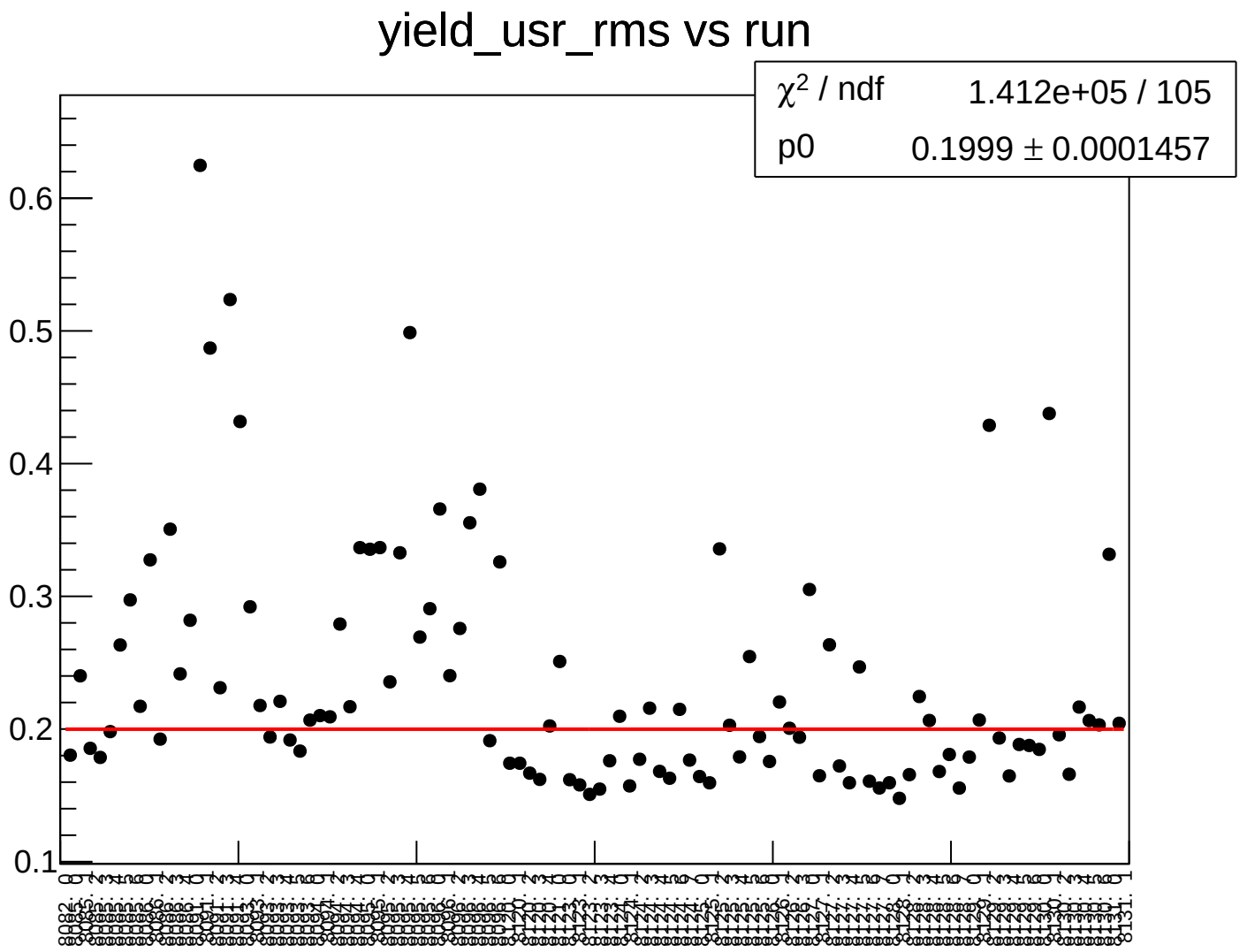

yield_usl_mean vs run
χ² / ndf 2.873e+07 / 105
p0 33.98 ± 0.0001079
34.8
34.6
34.4
34.2
34
33.8
33.6
33.4
33.2
33
pull
Entries 106
Mean −1342
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800

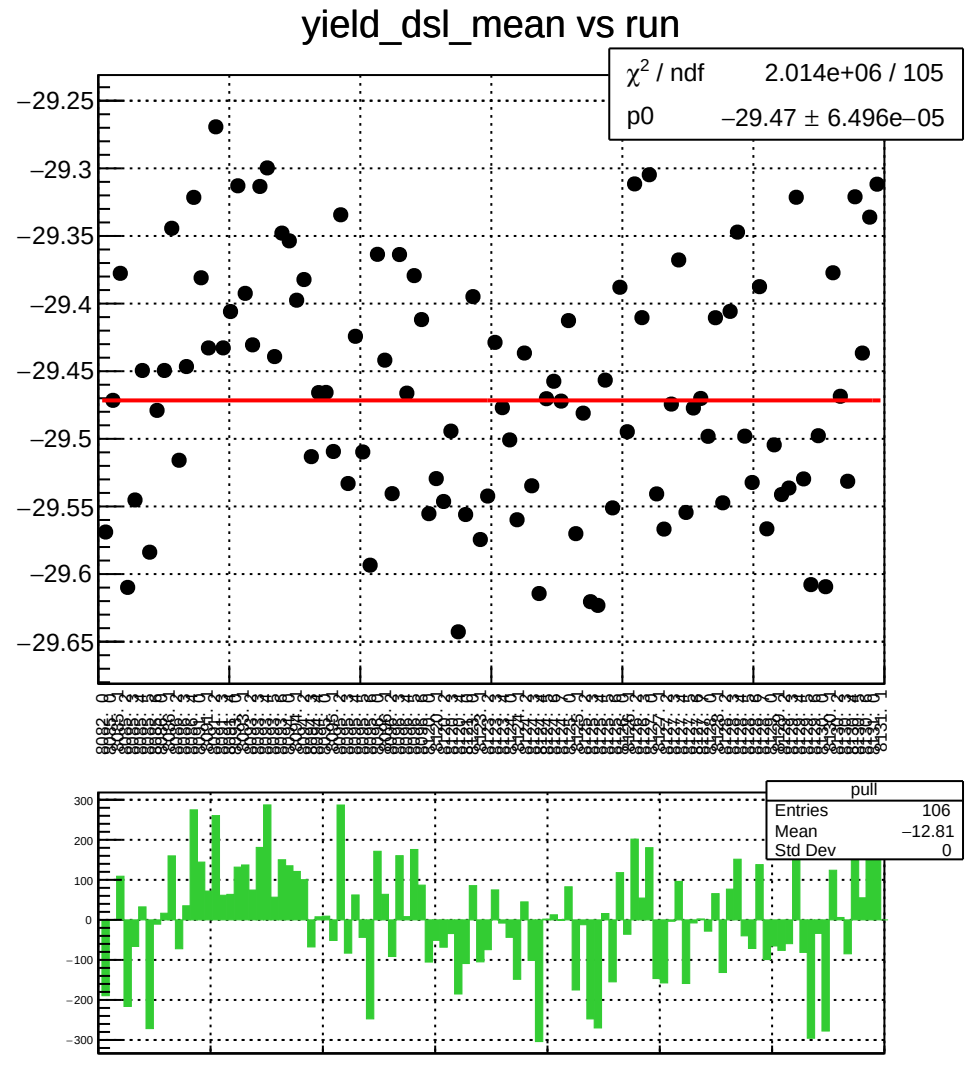

pull1D
Entries 106
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

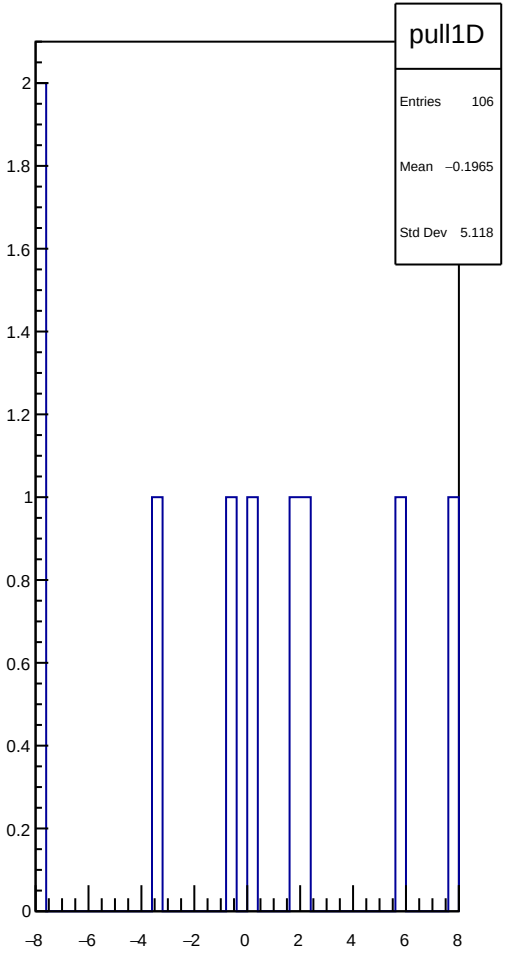

yield_usl_rms vs run
χ² / ndf 8.705e+04 / 105
p0 0.1062 ± 7.63e−05
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1

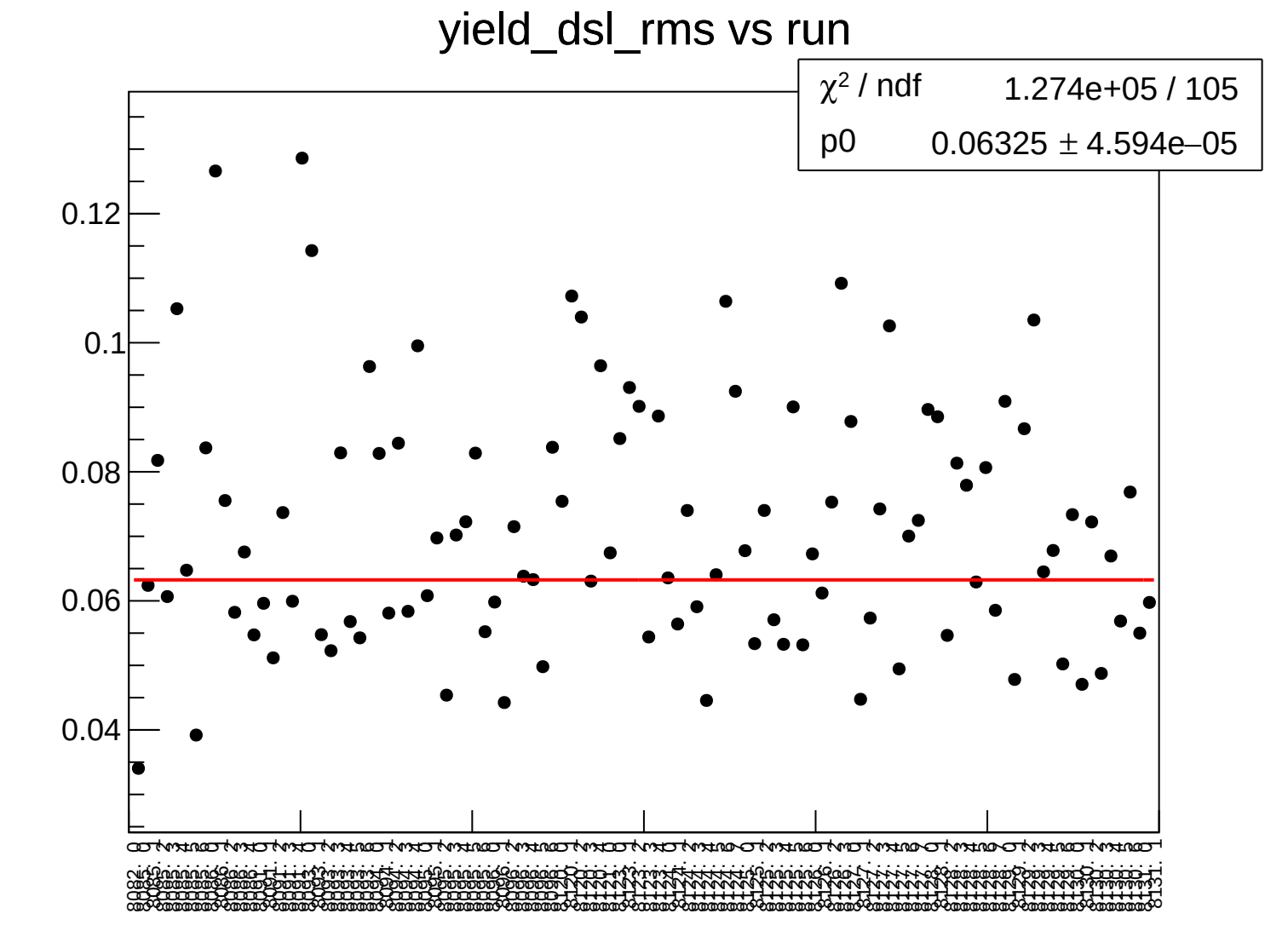

yield_usr_mean vs run
χ² / ndf 8.076e+06 / 105
p0 34.55 ± 0.0002061
35.5
35
34.5
34
33.5
pull
Entries 106
Mean −175.7
Std Dev 0
600
400
200
0
−200
−400

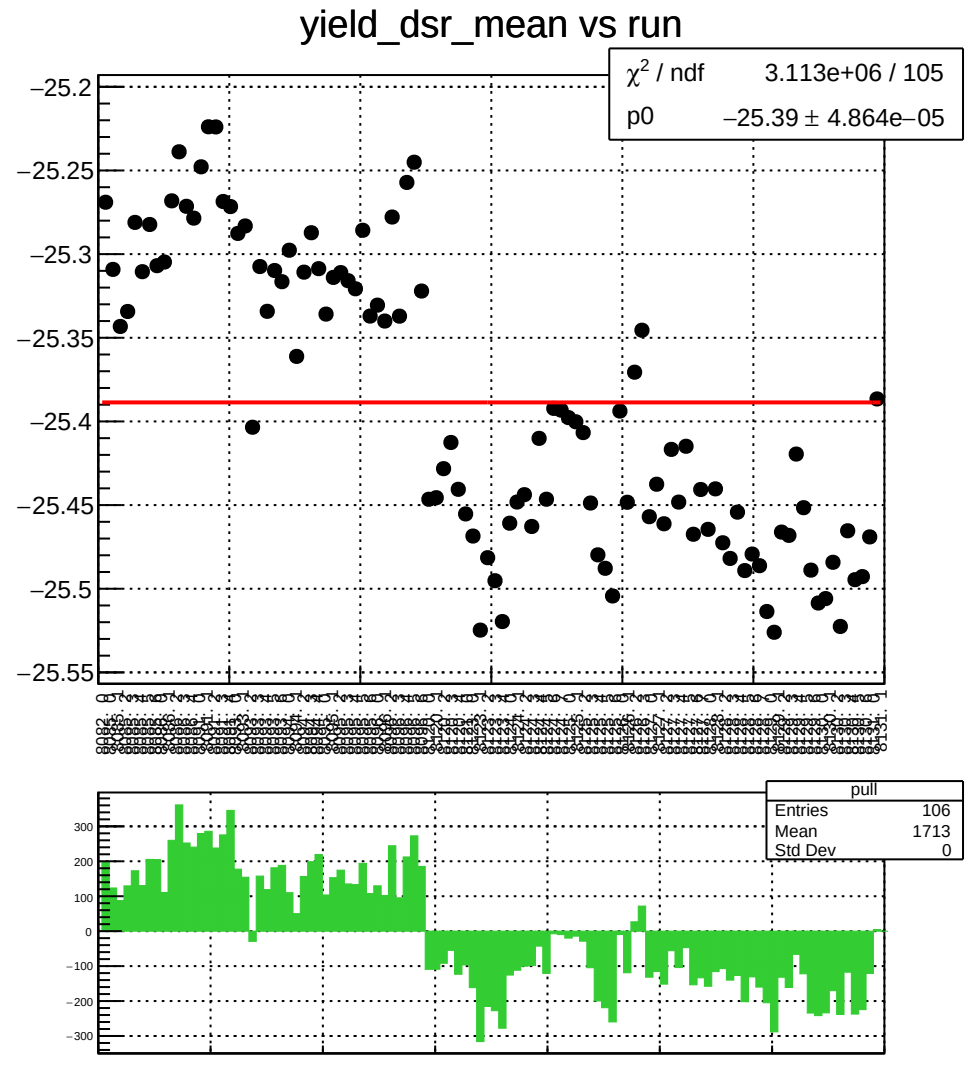

pull1D
Entries 106
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

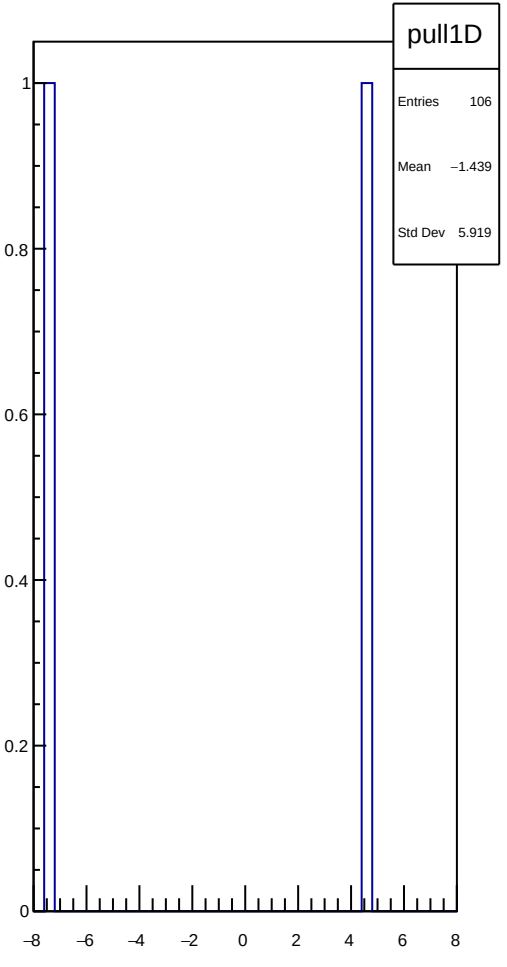

yield_usr_rms vs run
$\chi^2$ / ndf 1.412e+05 / 105
p0 0.1999 ± 0.0001457
0.6
0.5
0.4
0.3
0.2
0.1

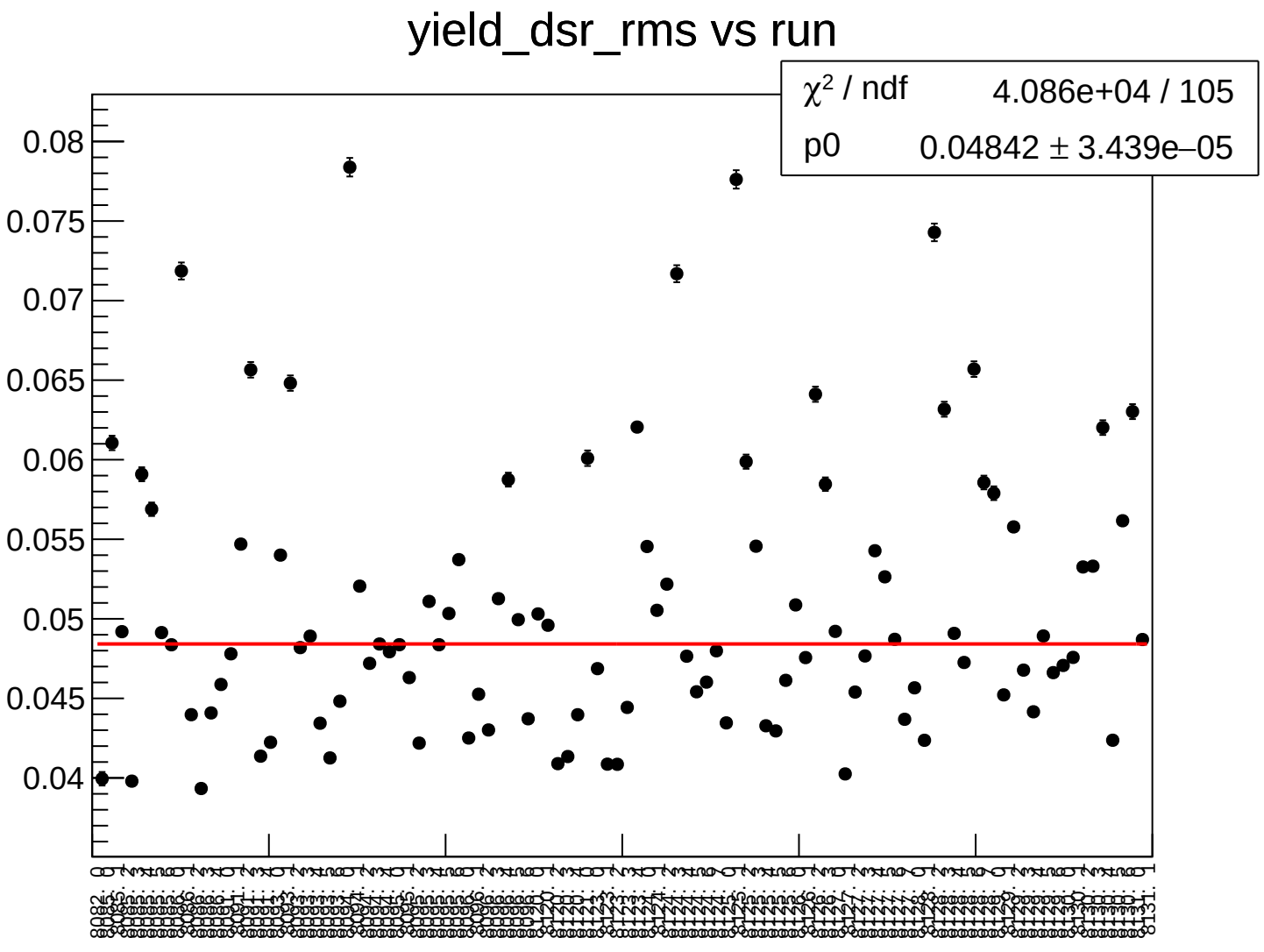

yield_dsl_mean vs run
χ² / ndf 2.014e+06 / 105
p0 −29.47 ± 6.496e−05
−29.25
−29.3
−29.35
−29.4
−29.45
−29.5
−29.55
−29.6
−29.65
pull
Entries 106
Mean −12.81
Std Dev 0
300
200
100
0
−100
−200
−300

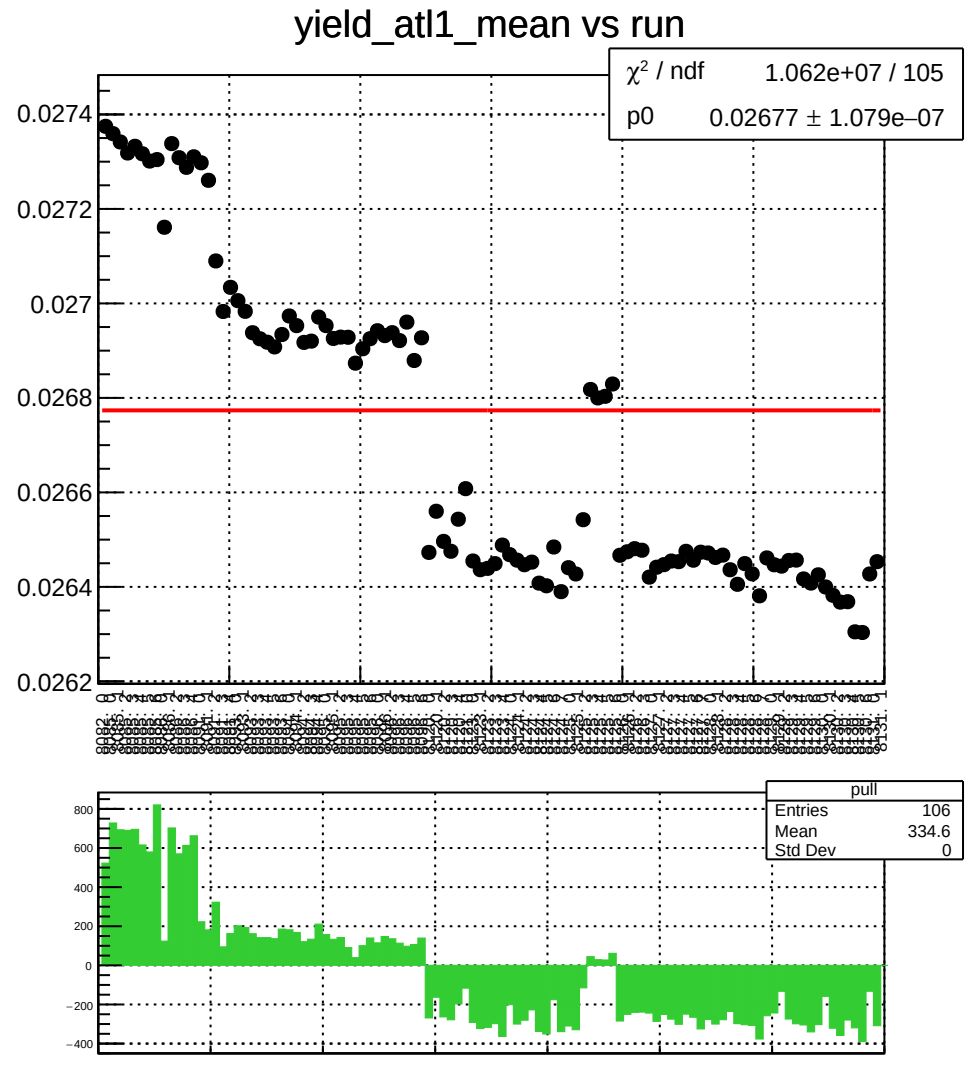

pull1D
Entries 106
Mean −0.1965
Std Dev 5.118
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

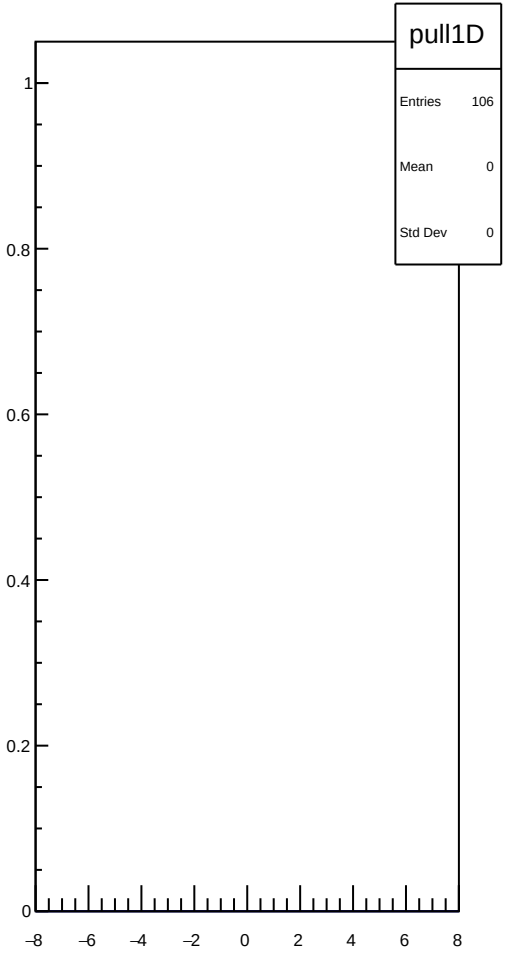

yield_dsl_rms vs run
χ² / ndf 1.274e+05 / 105
p0 0.06325 ± 4.594e−05
0.12
0.1
0.08
0.06
0.04

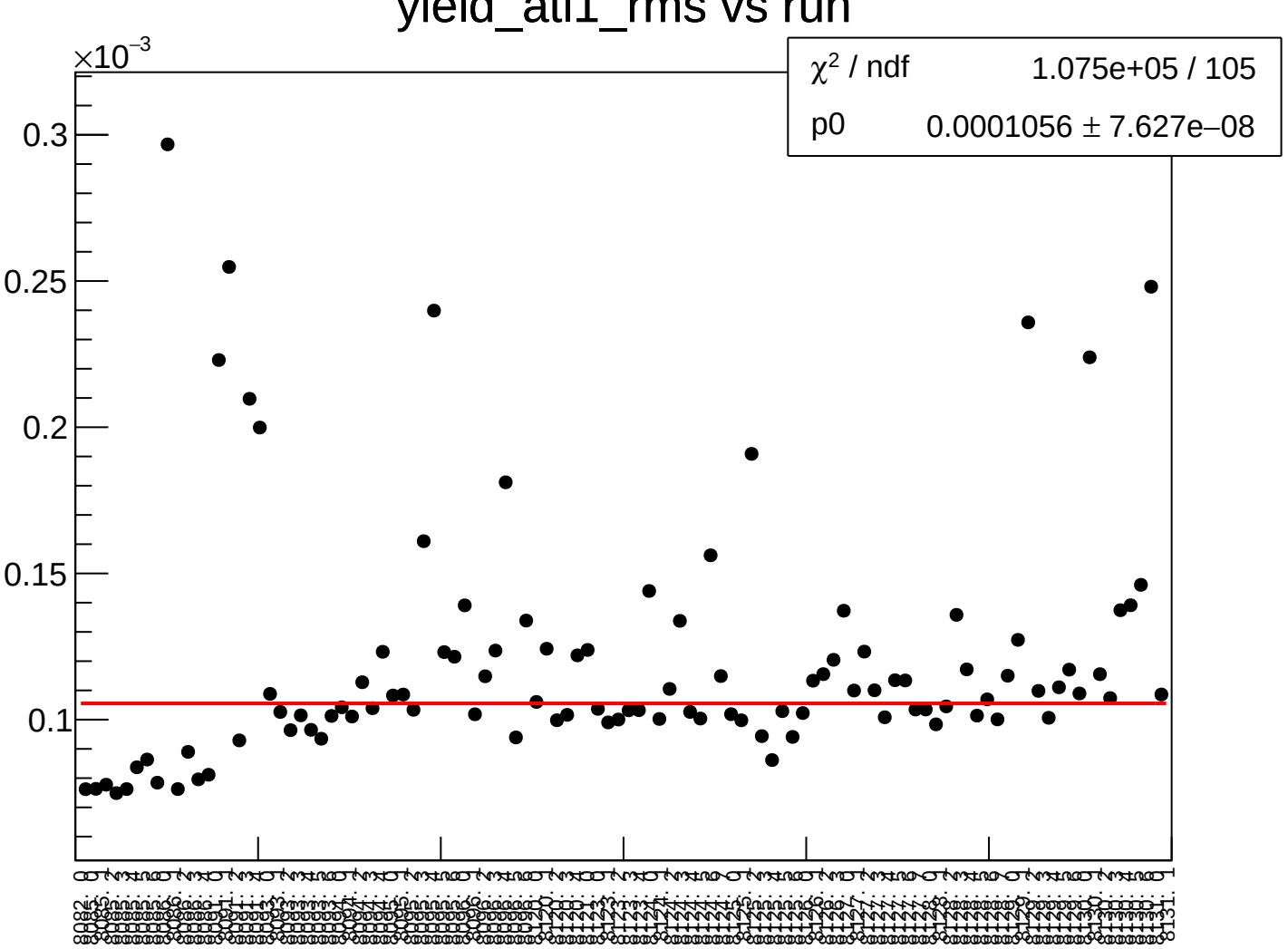

yield_dsr_mean vs run
χ² / ndf 3.113e+06 / 105
p0 −25.39 ± 4.864e−05
−25.2
−25.25
−25.3
−25.35
−25.4
−25.45
−25.5
−25.55
pull
Entries 106
Mean 1713
Std Dev 0
300
200
100
0
−100
−200
−300

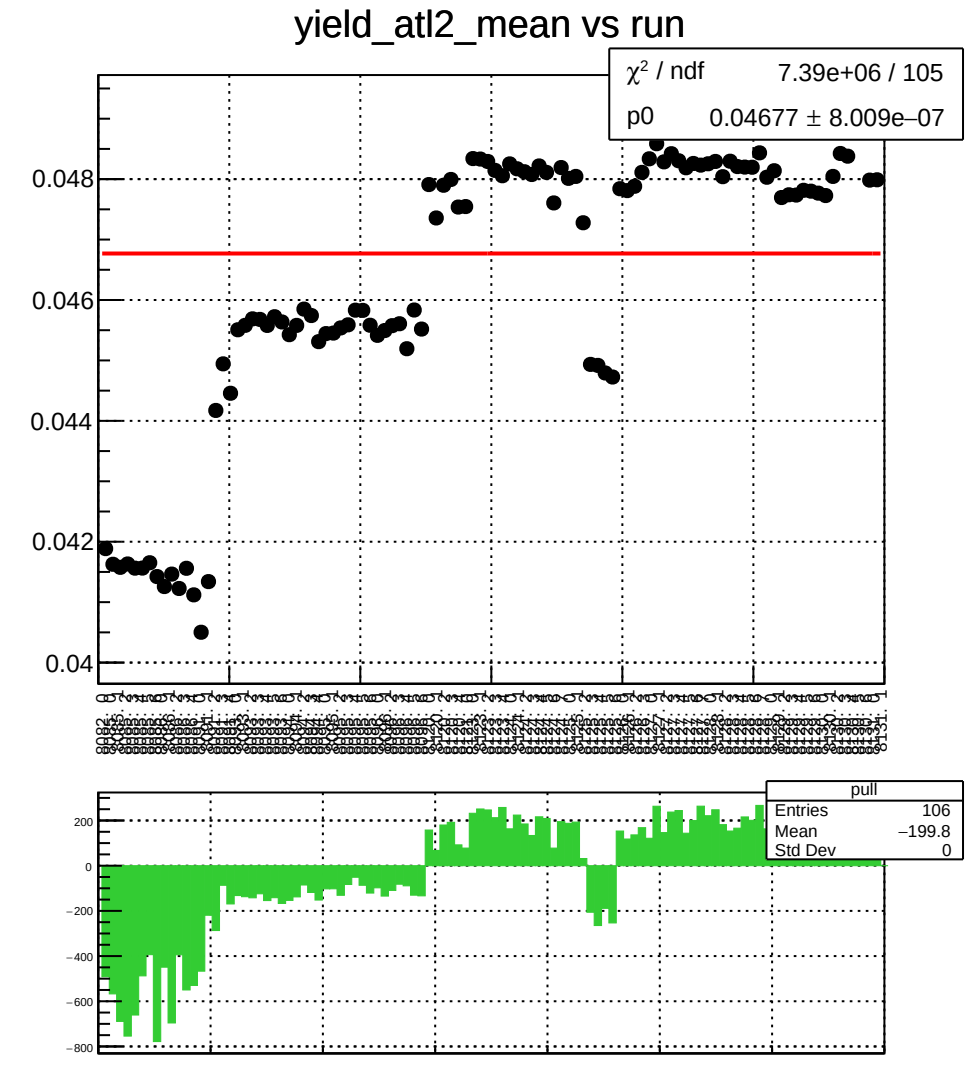

pull1D
Entries 106
Mean −1.439
Std Dev 5.919
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

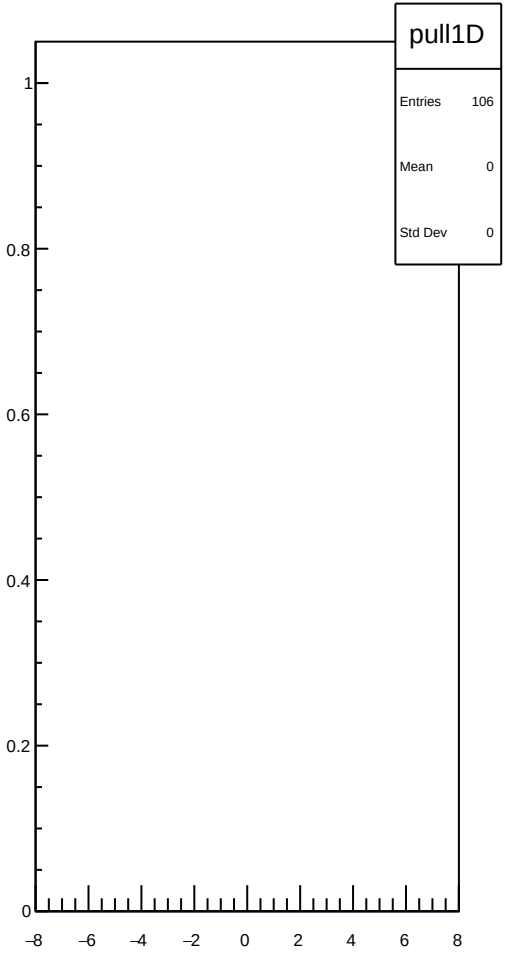

yield_dsr_rms vs run
χ² / ndf 4.086e+04 / 105
p0 0.04842 ± 3.439e−05
0.08
0.075
0.07
0.065
0.06
0.055
0.05
0.045
0.04

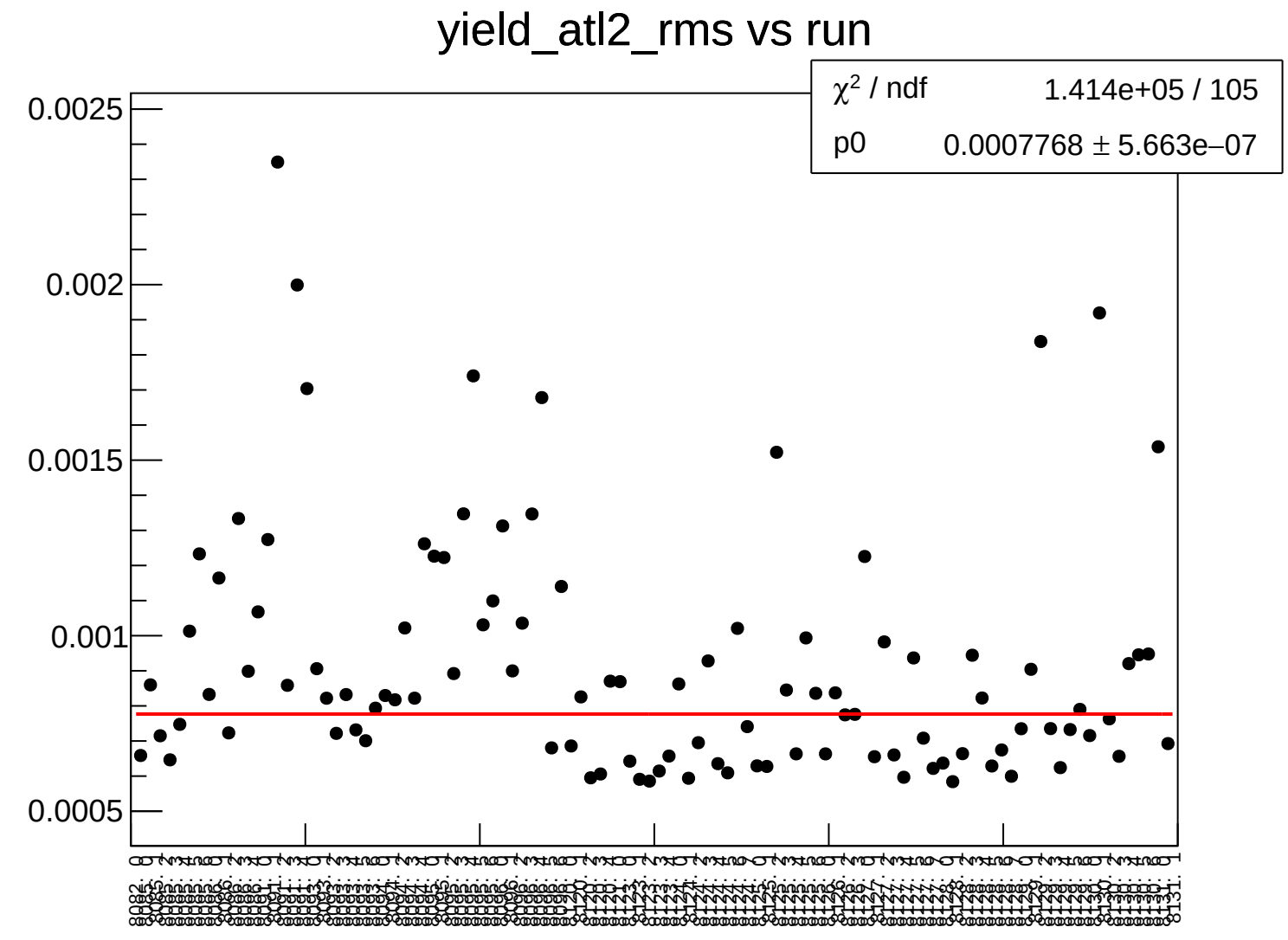

yield_atl1_mean vs run
χ² / ndf 1.062e+07 / 105
p0 0.02677 ± 1.079e−07
0.0274
0.0272
0.027
0.0268
0.0266
0.0264
0.0262
pull
Entries 106
Mean 334.6
Std Dev 0
800
600
400
200
0
−200
−400

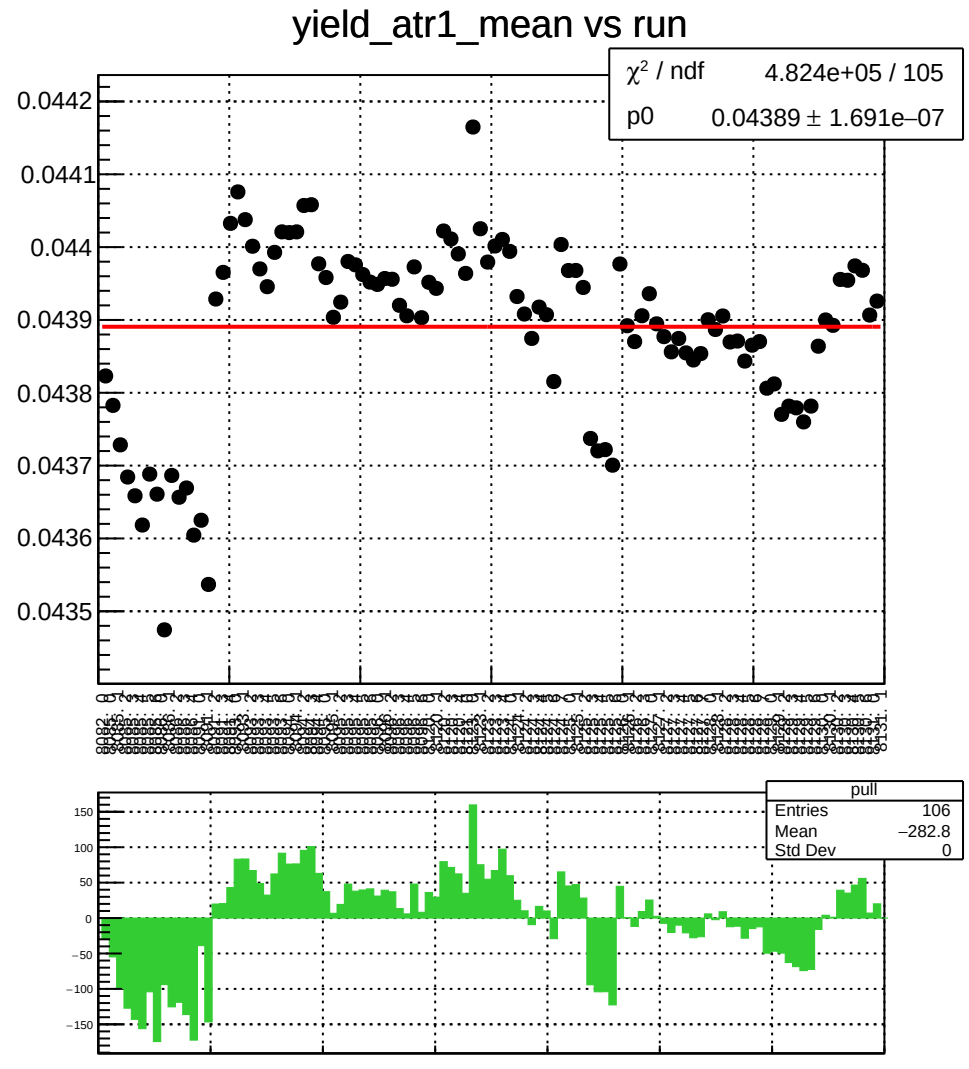

pull1D
Entries 106
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

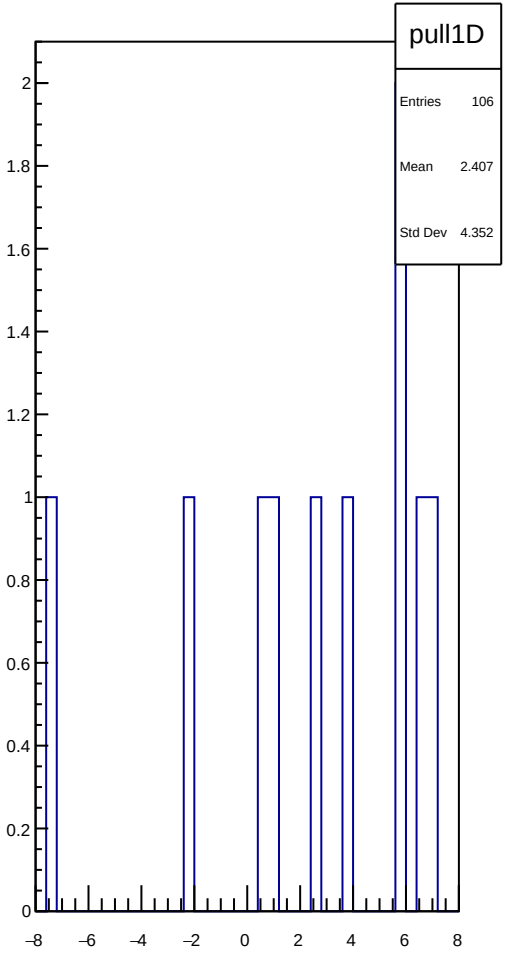

yield_atl1_rms vs run
×10⁻³
χ² / ndf 1.075e+05 / 105
p0 0.0001056 ± 7.627e−08
0.3
0.25
0.2
0.15
0.1

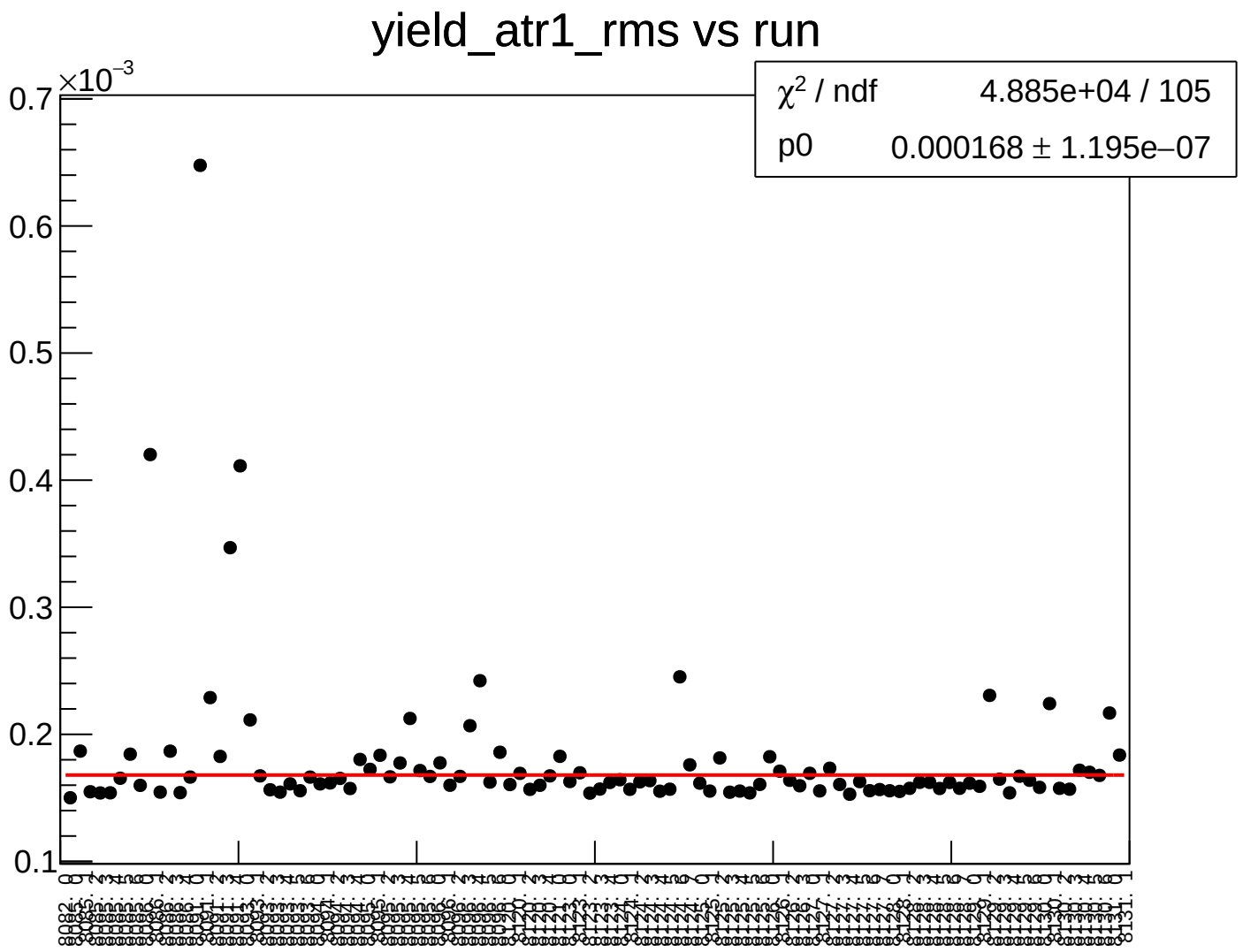

yield_atl2_mean vs run
χ² / ndf 7.39e+06 / 105
p0 0.04677 ± 8.009e−07
0.048
0.046
0.044
0.042
0.04
pull
Entries 106
Mean −199.8
Std Dev 0
200
0
−200
−400
−600
−800

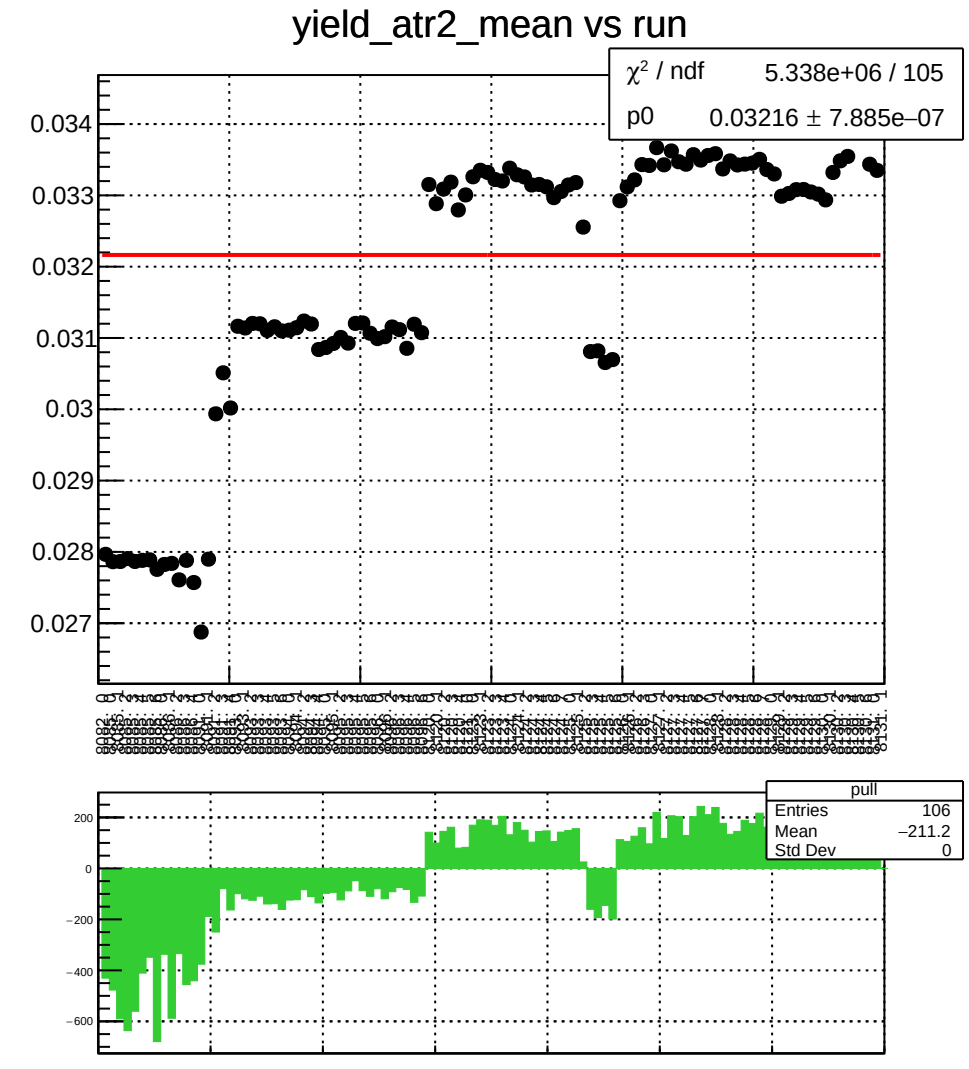

pull1D
Entries 106
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

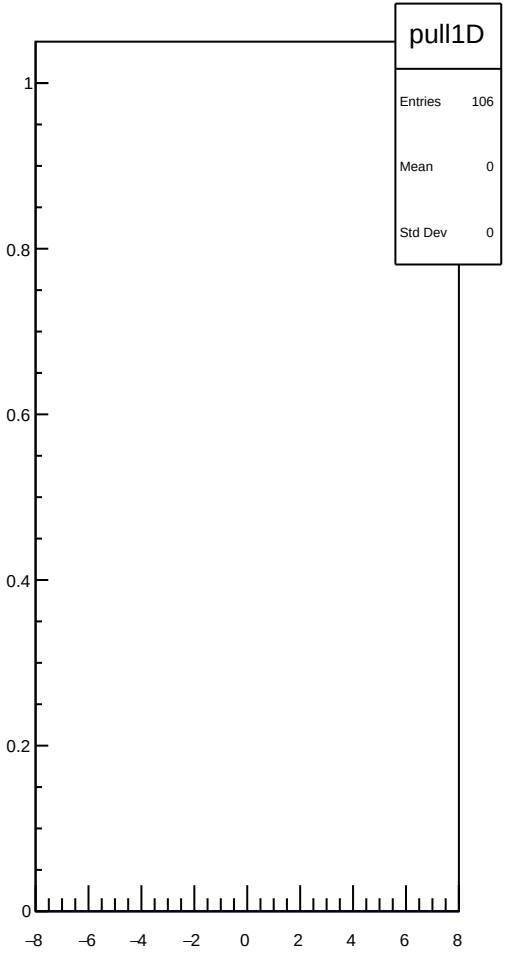

yield_atl2_rms vs run
χ² / ndf 1.414e+05 / 105
p0 0.0007768 ± 5.663e−07
0.0025
0.002
0.0015
0.001
0.0005

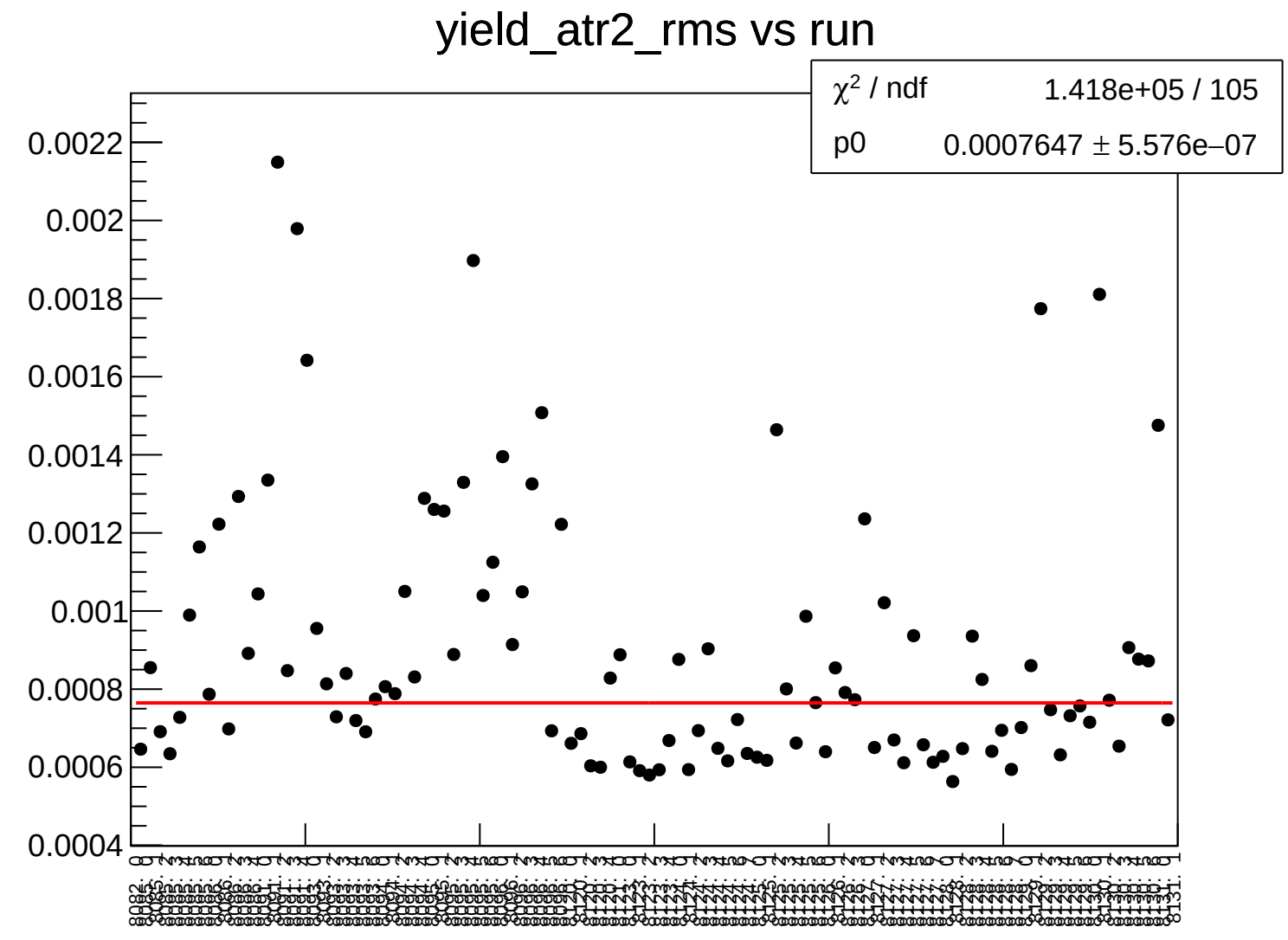

yield_atr1_mean vs run
χ² / ndf 4.824e+05 / 105
p0 0.04389 ± 1.691e−07
0.0442
0.0441
0.044
0.0439
0.0438
0.0437
0.0436
0.0435
pull
Entries 106
Mean −282.8
Std Dev 0
150
100
50
0
−50
−100
−150

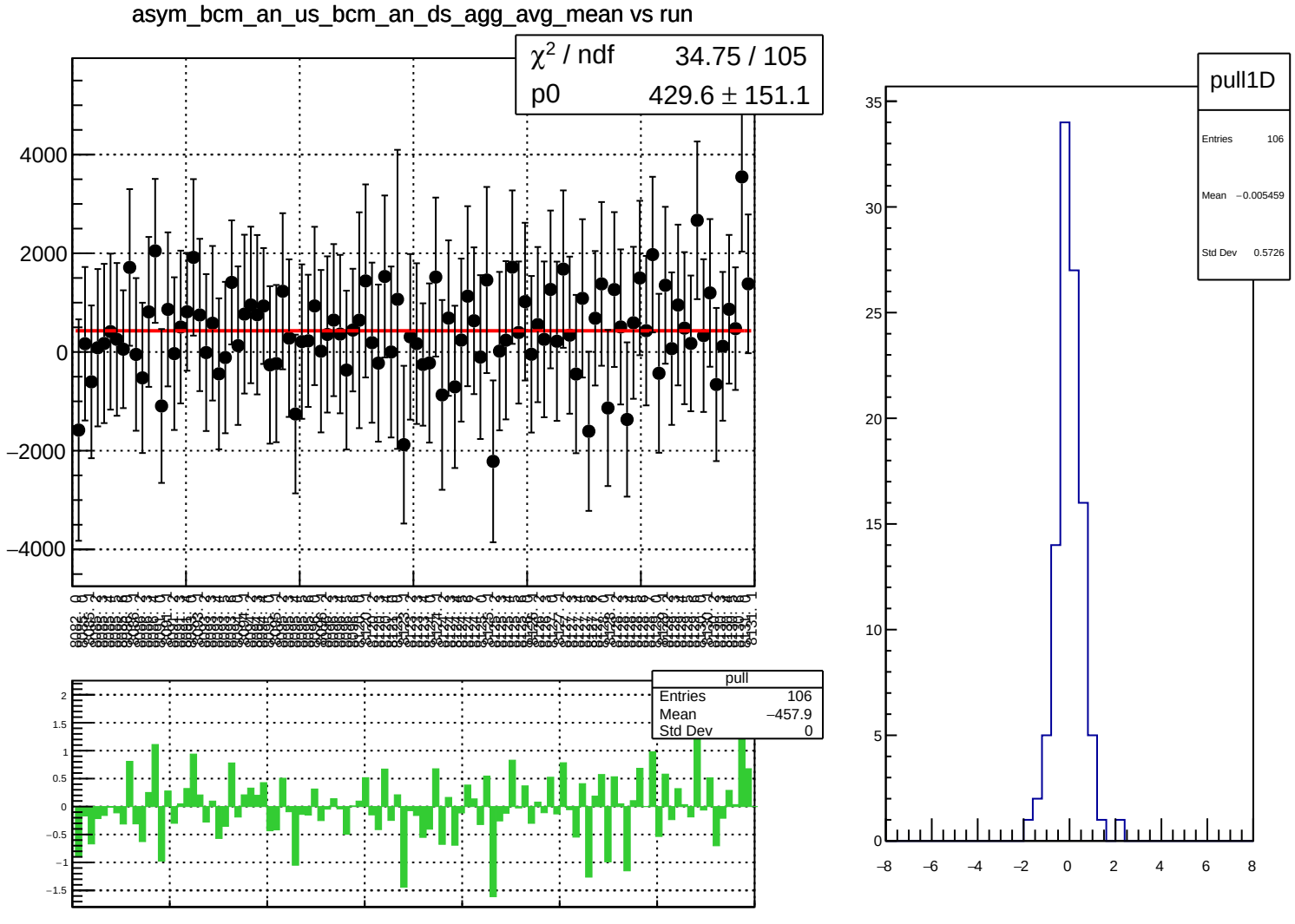

pull1D
Entries 106
Mean 2.407
Std Dev 4.352
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

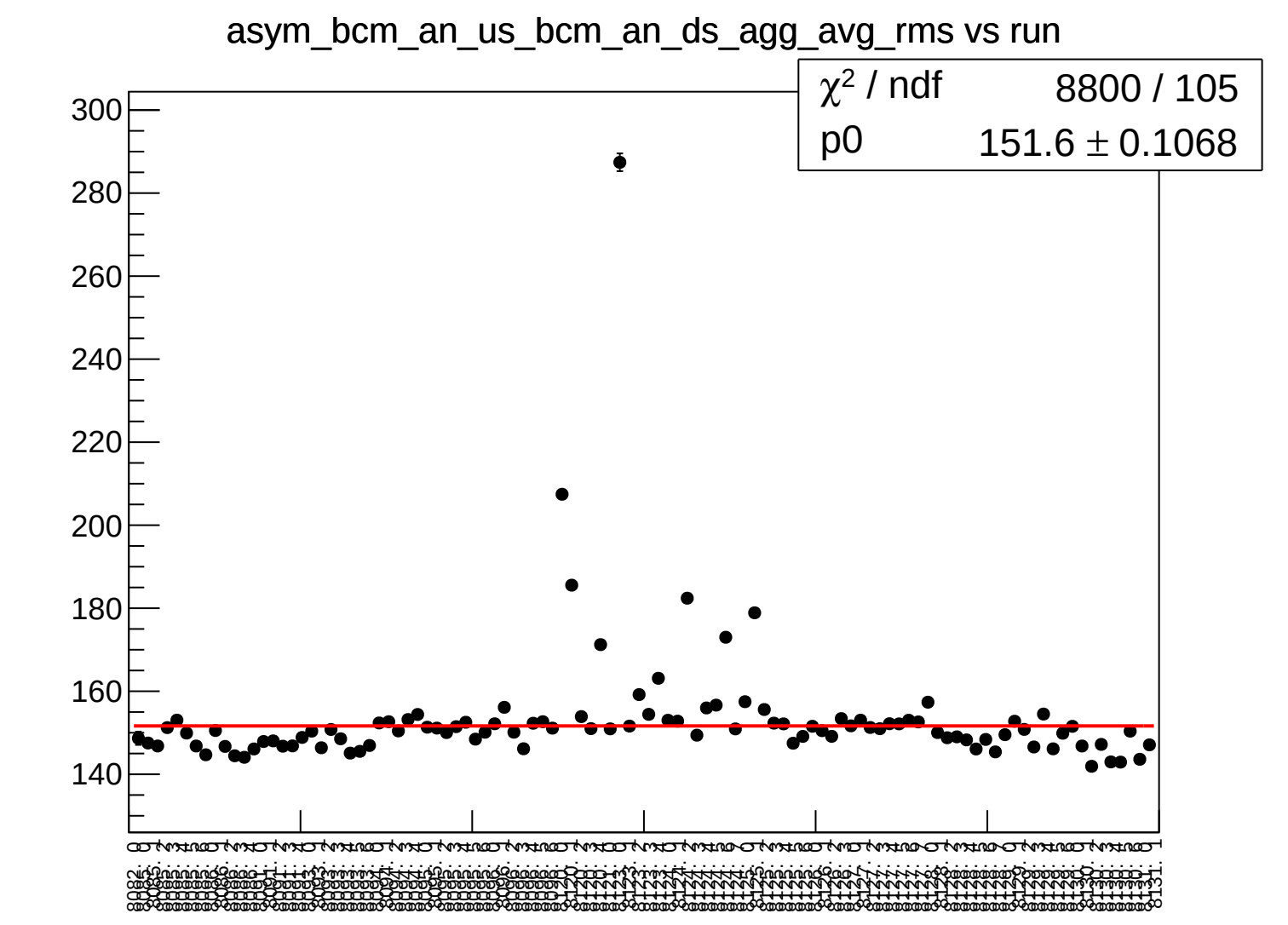

yield_atr1_rms vs run
×10⁻³
0.7
0.6
0.5
0.4
0.3
0.2
0.1
χ² / ndf 4.885e+04 / 105
p0 0.000168 ± 1.195e−07

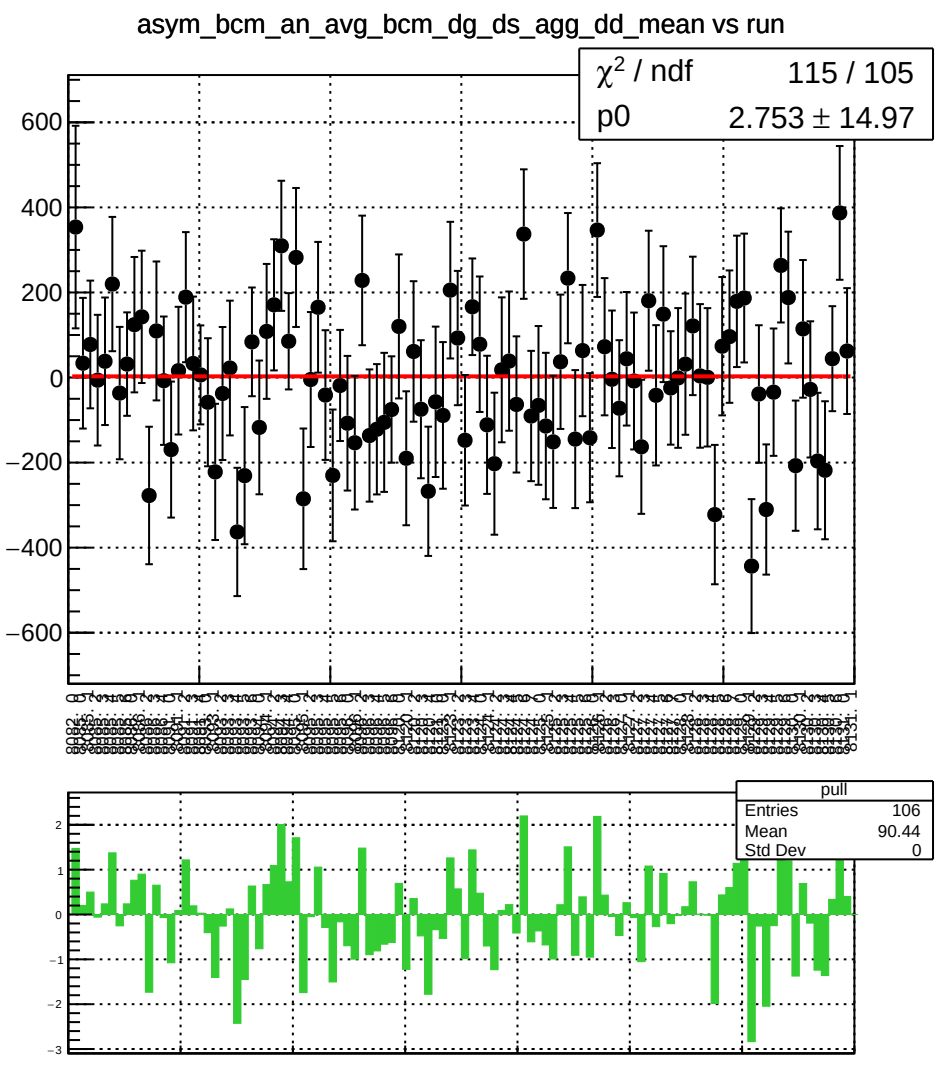

yield_atr2_mean vs run
χ² / ndf 5.338e+06 / 105
p0 0.03216 ± 7.885e−07
0.034
0.033
0.032
0.031
0.03
0.029
0.028
0.027
pull
Entries 106
Mean −211.2
Std Dev 0
200
0
−200
−400
−600

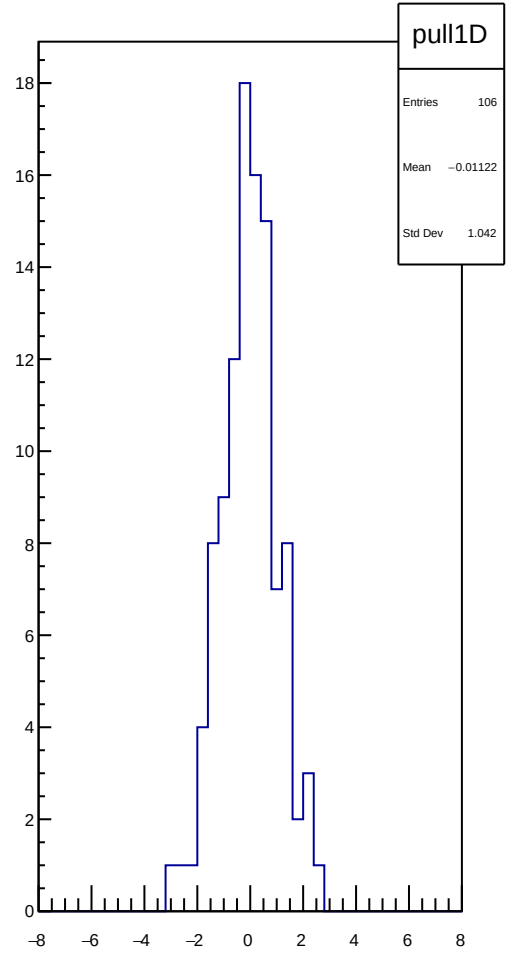

pull1D
Entries 106
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

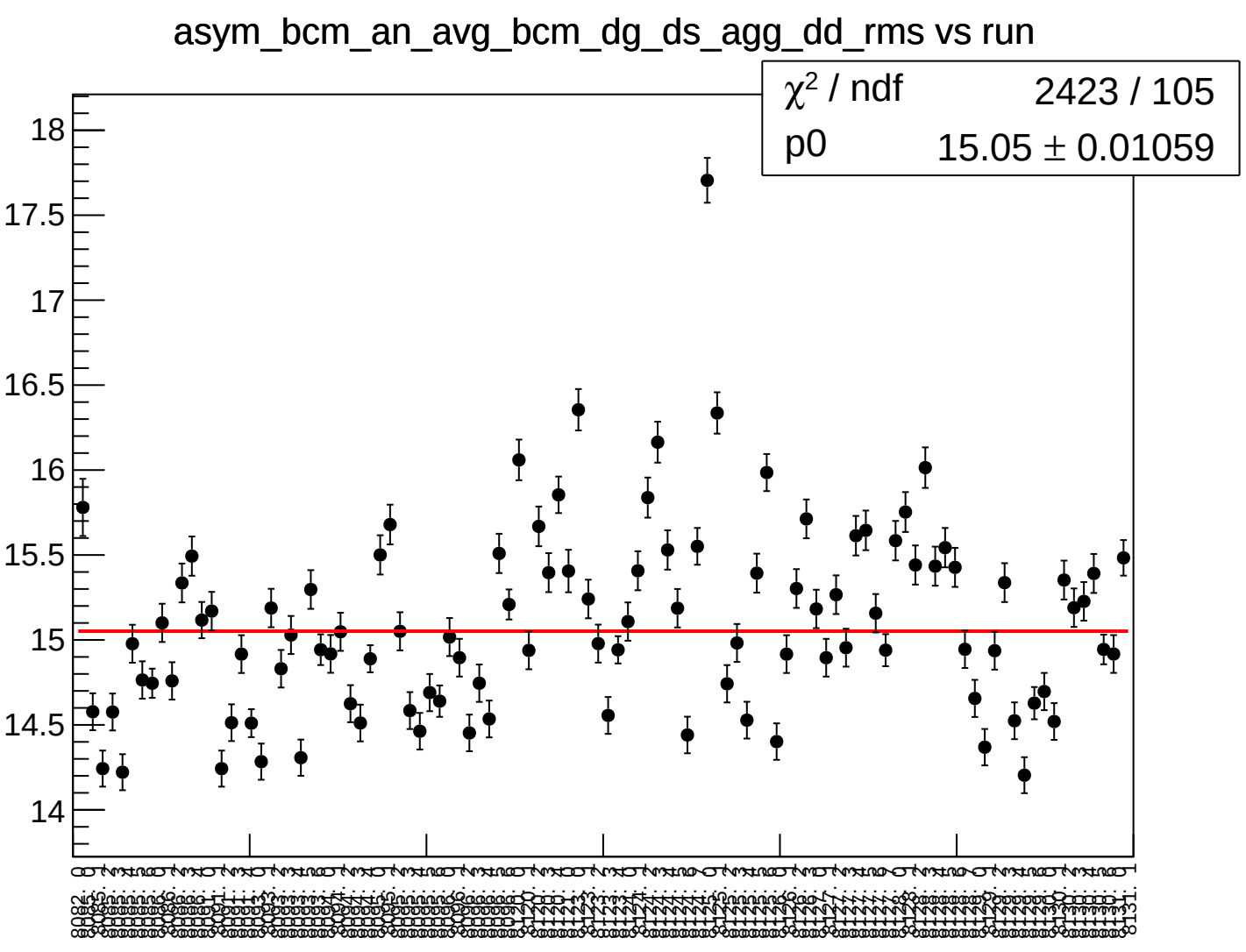

yield_atr2_rms vs run
χ² / ndf 1.418e+05 / 105
p0 0.0007647 ± 5.576e−07
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004

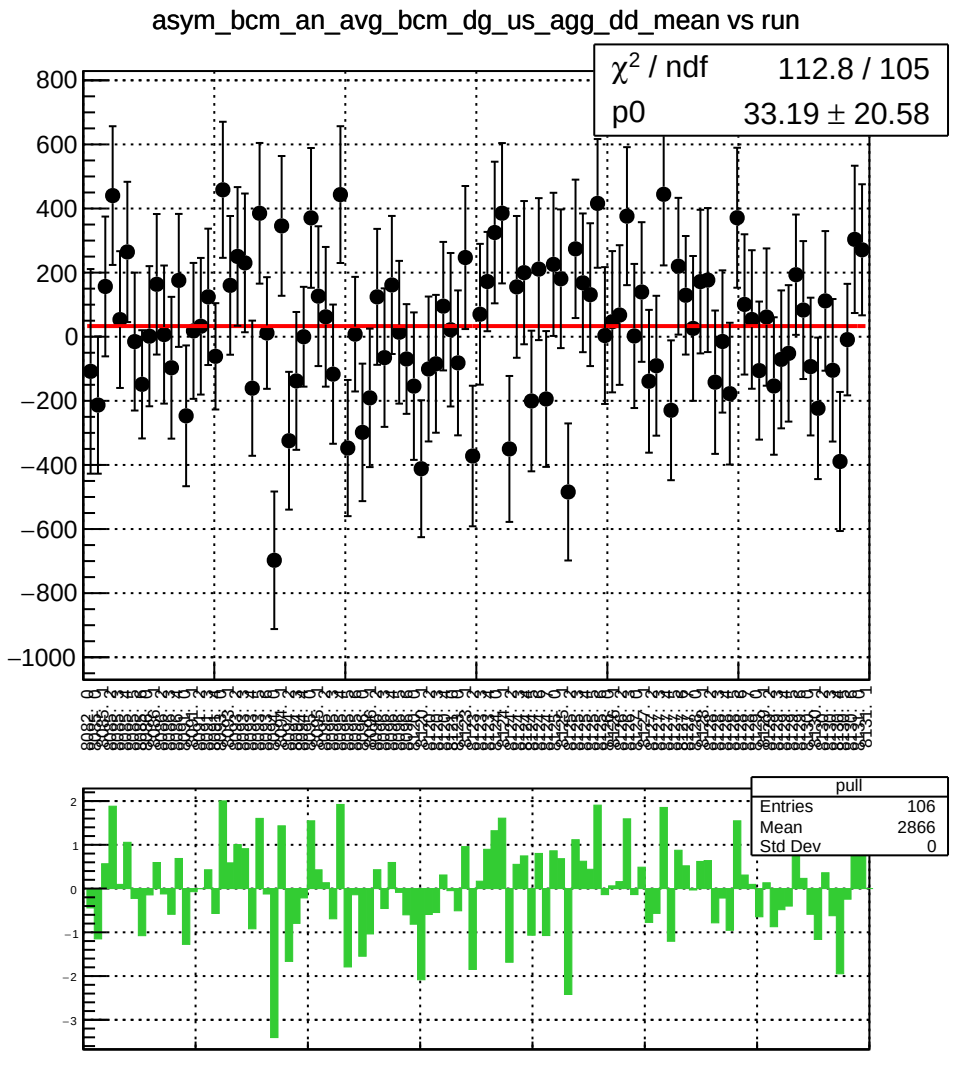

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 34.75 / 105
p0 429.6 ± 151.1
4000
2000
0
−2000
−4000
pull
Entries 106
Mean −457.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 106
Mean −0.005459
Std Dev 0.5726
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

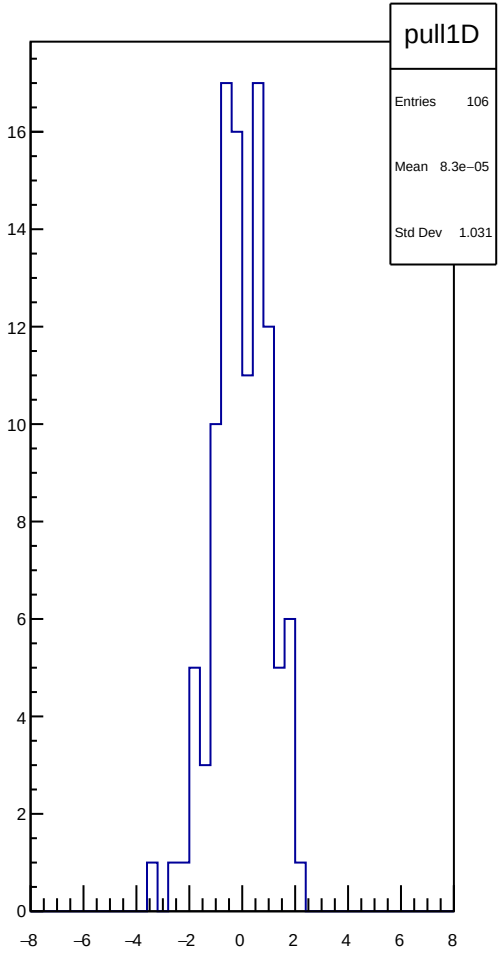

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 8800 / 105
p0 151.6 ± 0.1068
300
280
260
240
220
200
180
160
140

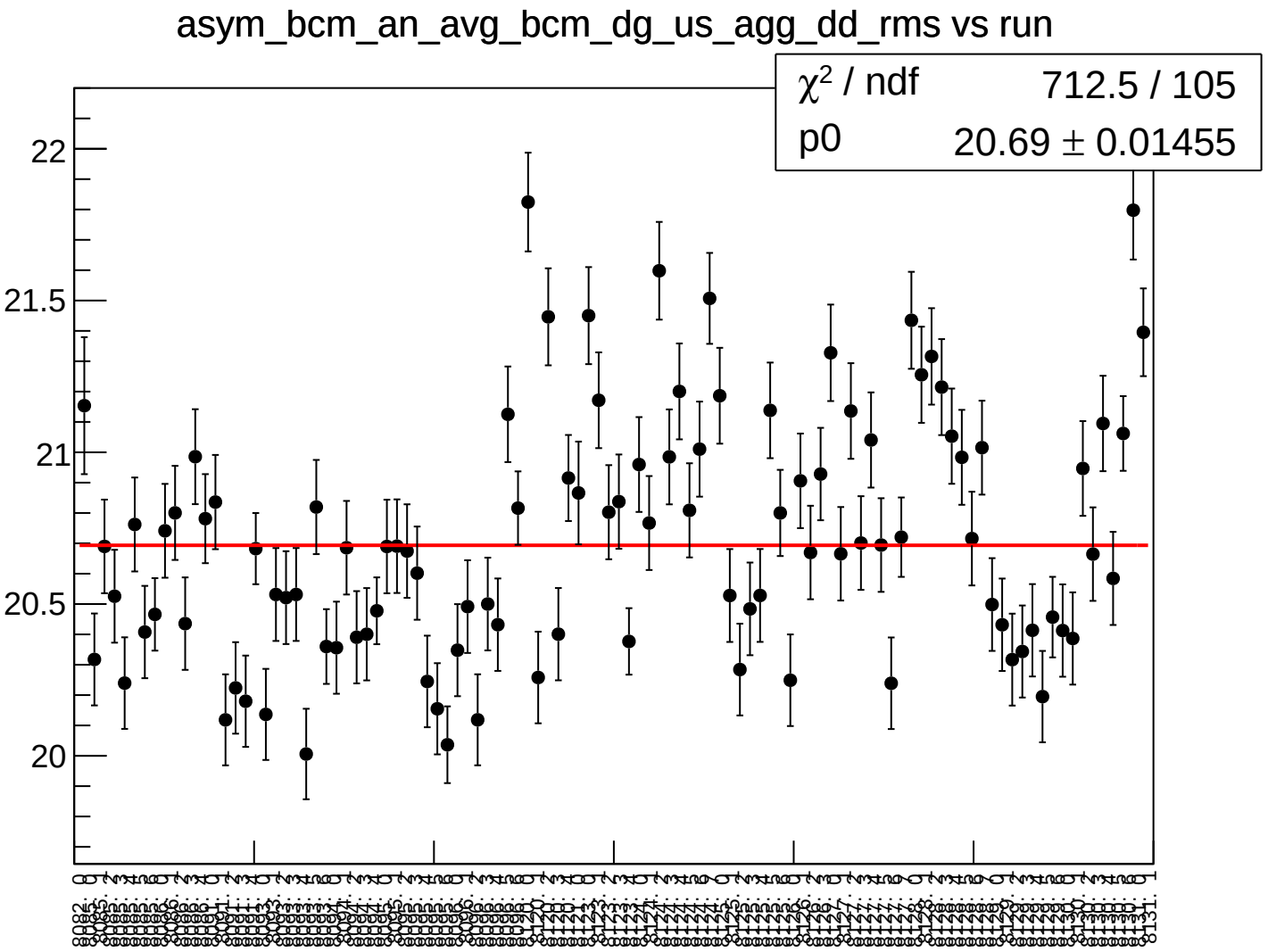

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 115 / 105
p0 2.753 ± 14.97
pull
Entries 106
Mean 90.44
Std Dev 0

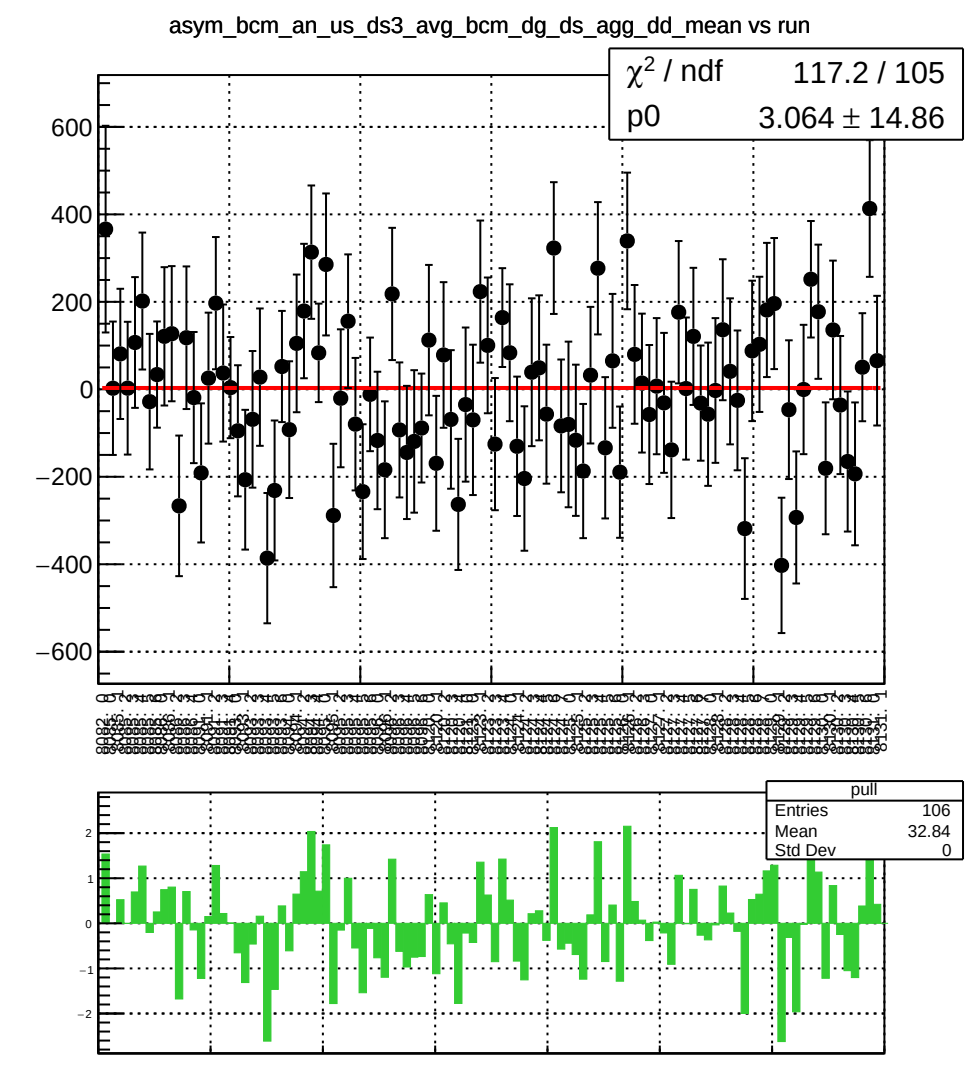

pull1D
Entries 106
Mean −0.01122
Std Dev 1.042

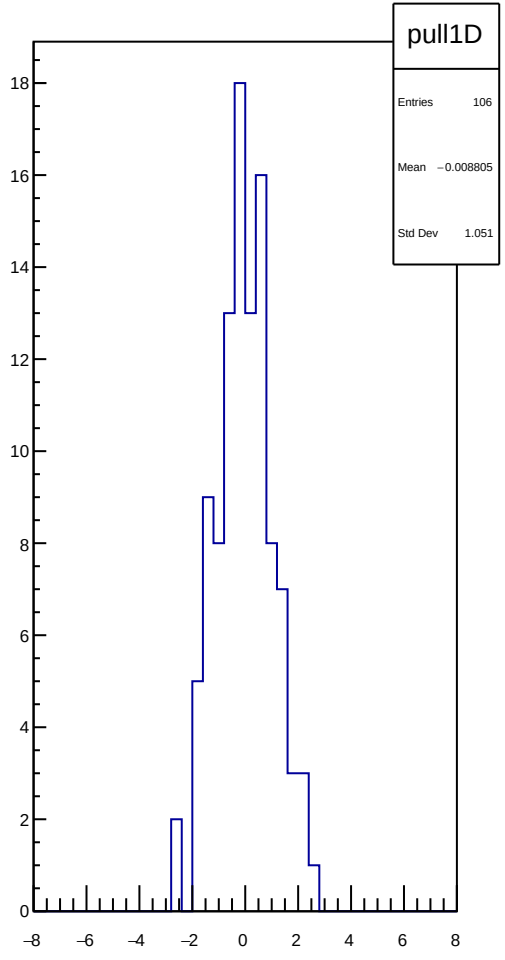

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2423 / 105
p0 15.05 ± 0.01059
18
17.5
17
16.5
16
15.5
15
14.5
14

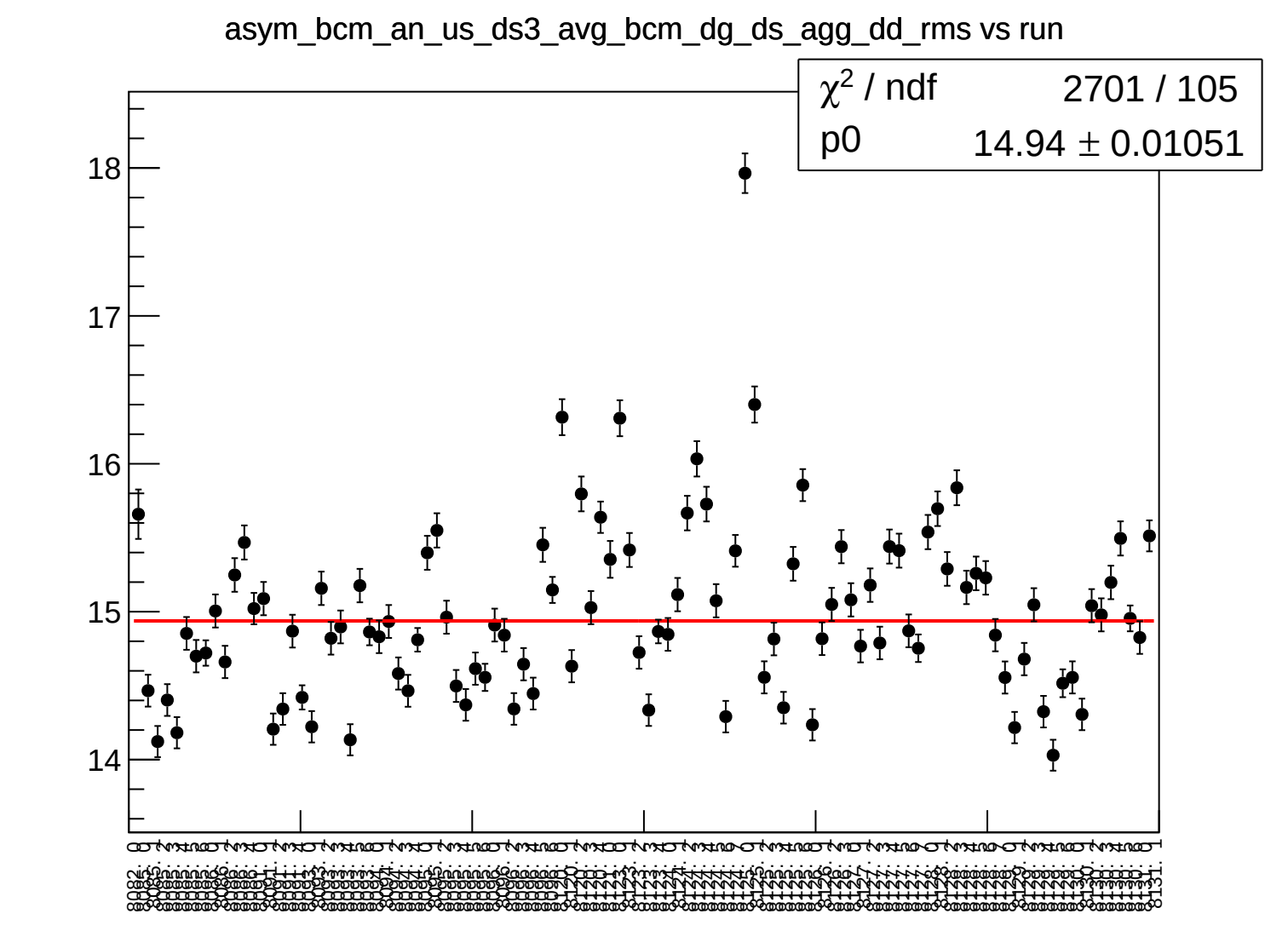

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 112.8 / 105
p0 33.19 ± 20.58
pull
Entries 106
Mean 2866
Std Dev 0

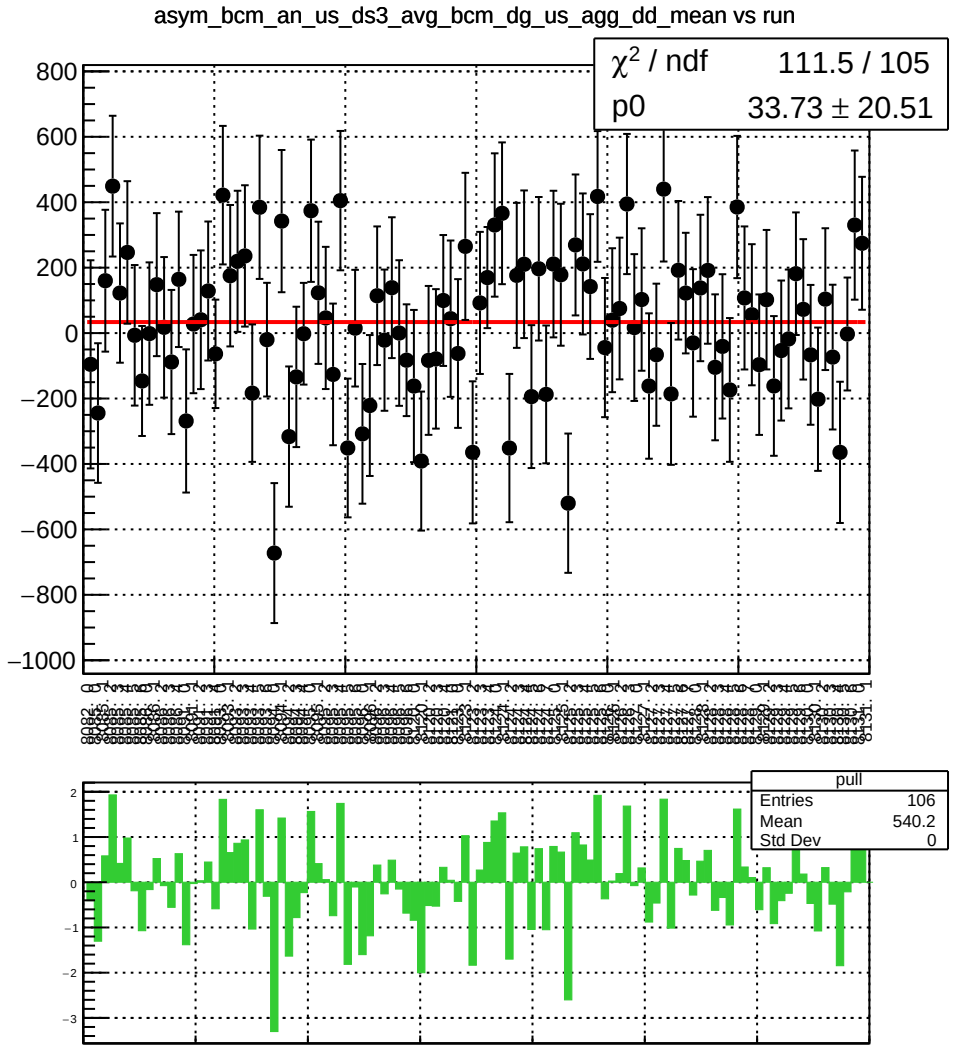

pull1D
Entries 106
Mean 8.3e−05
Std Dev 1.031

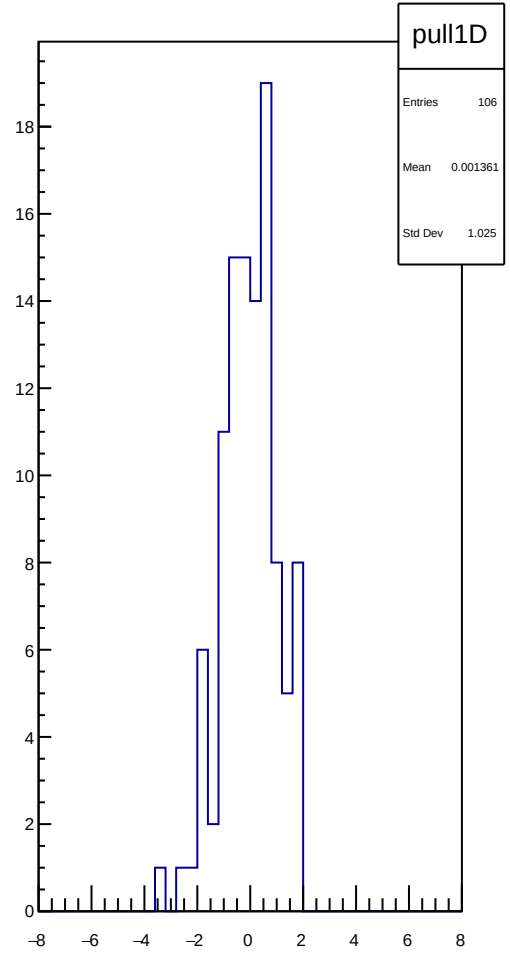

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 712.5 / 105
p0 20.69 ± 0.01455
22
21.5
21
20.5
20

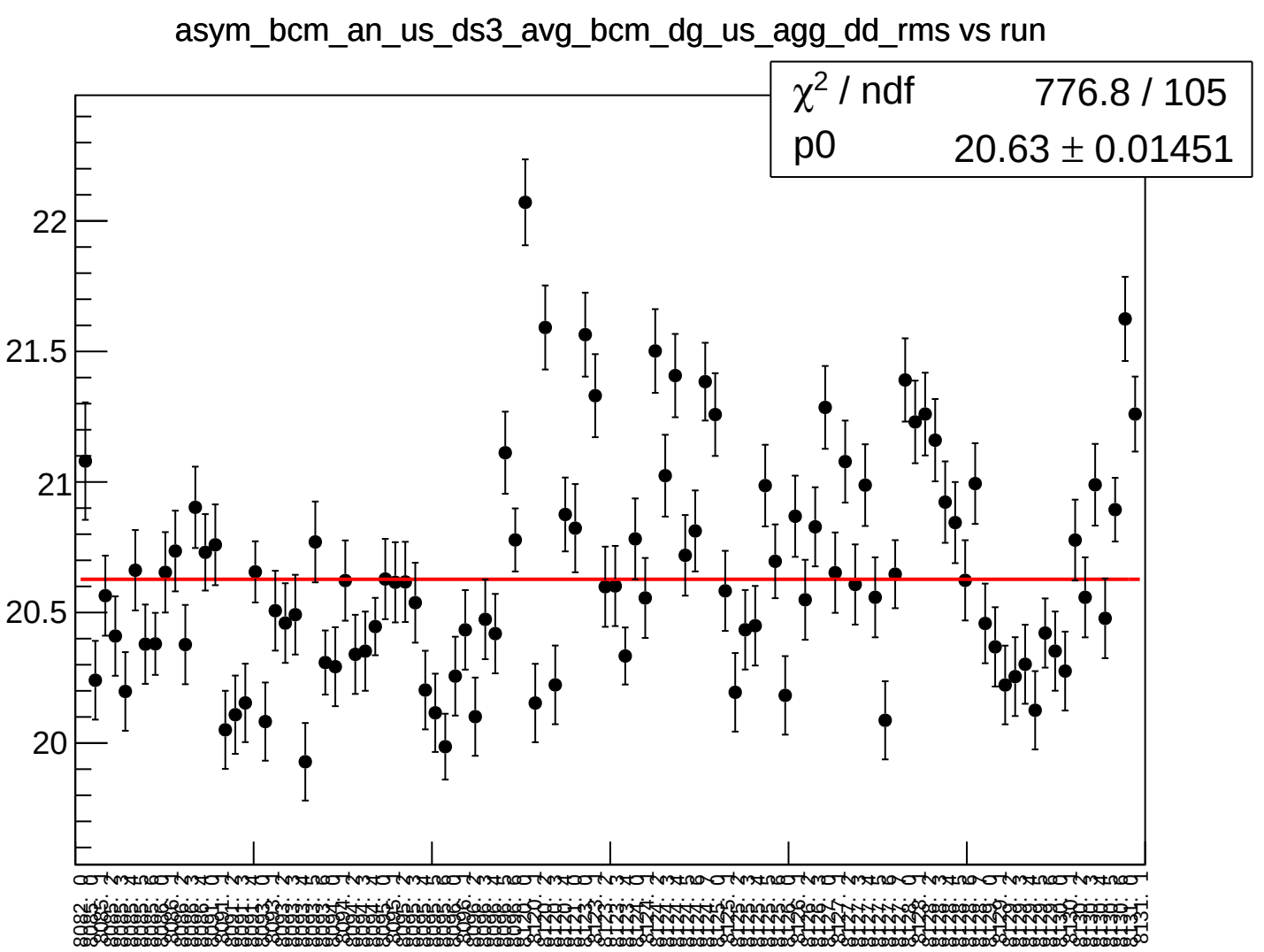

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 117.2 / 105
p0 3.064 ± 14.86
pull
Entries 106
Mean 32.84
Std Dev 0

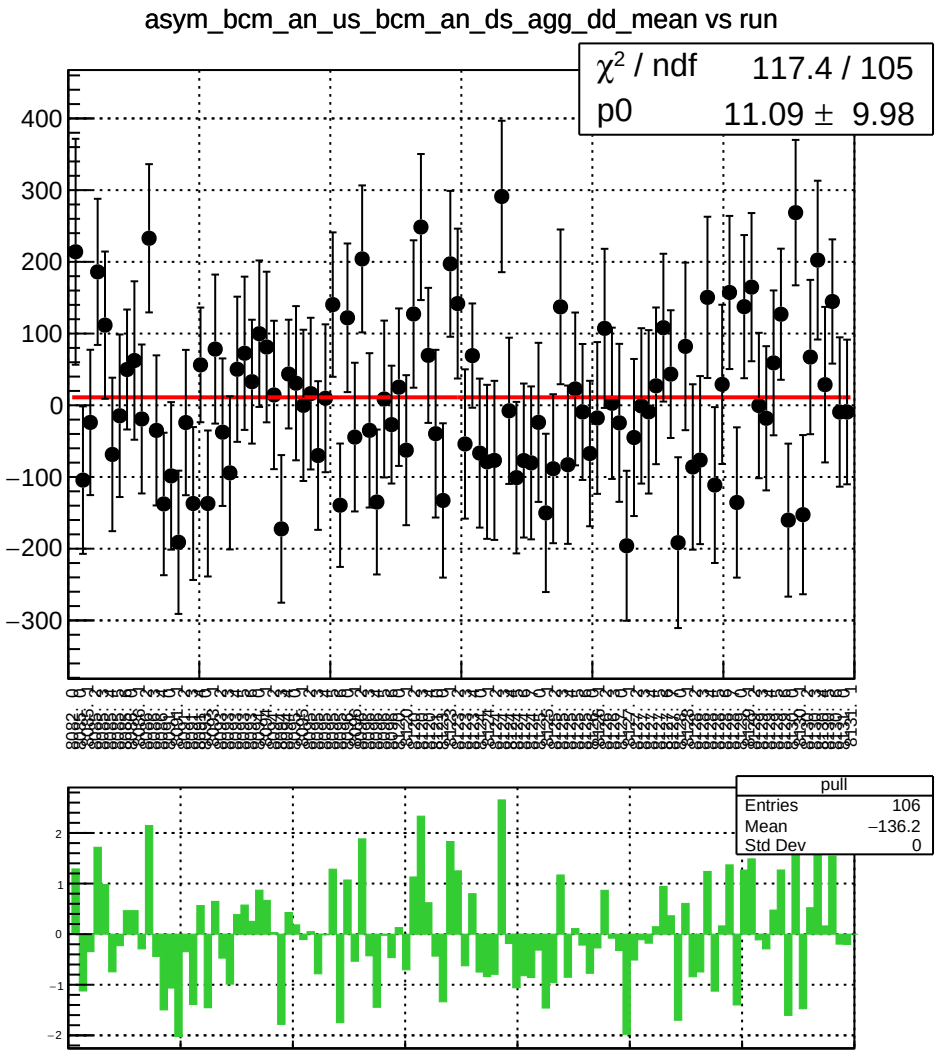

pull1D
Entries 106
Mean −0.008805
Std Dev 1.051

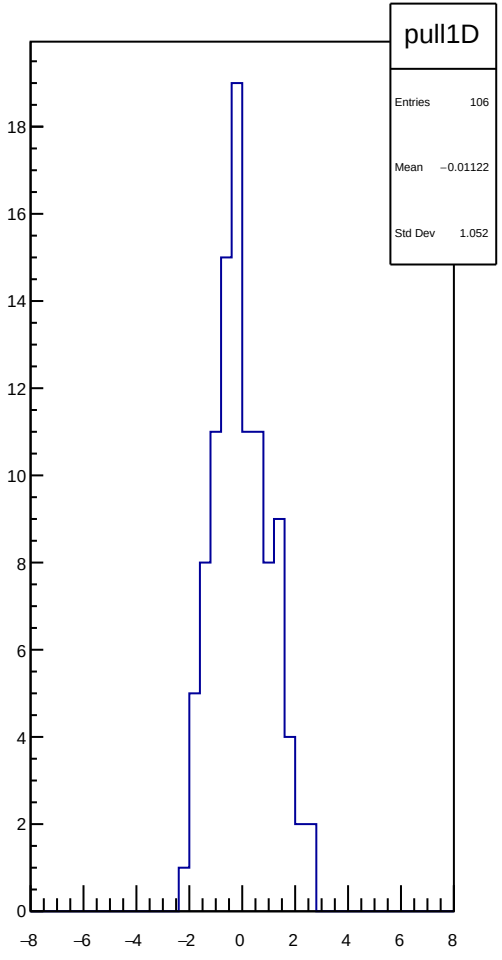

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2701 / 105
p0 14.94 ± 0.01051
18
17
16
15
14

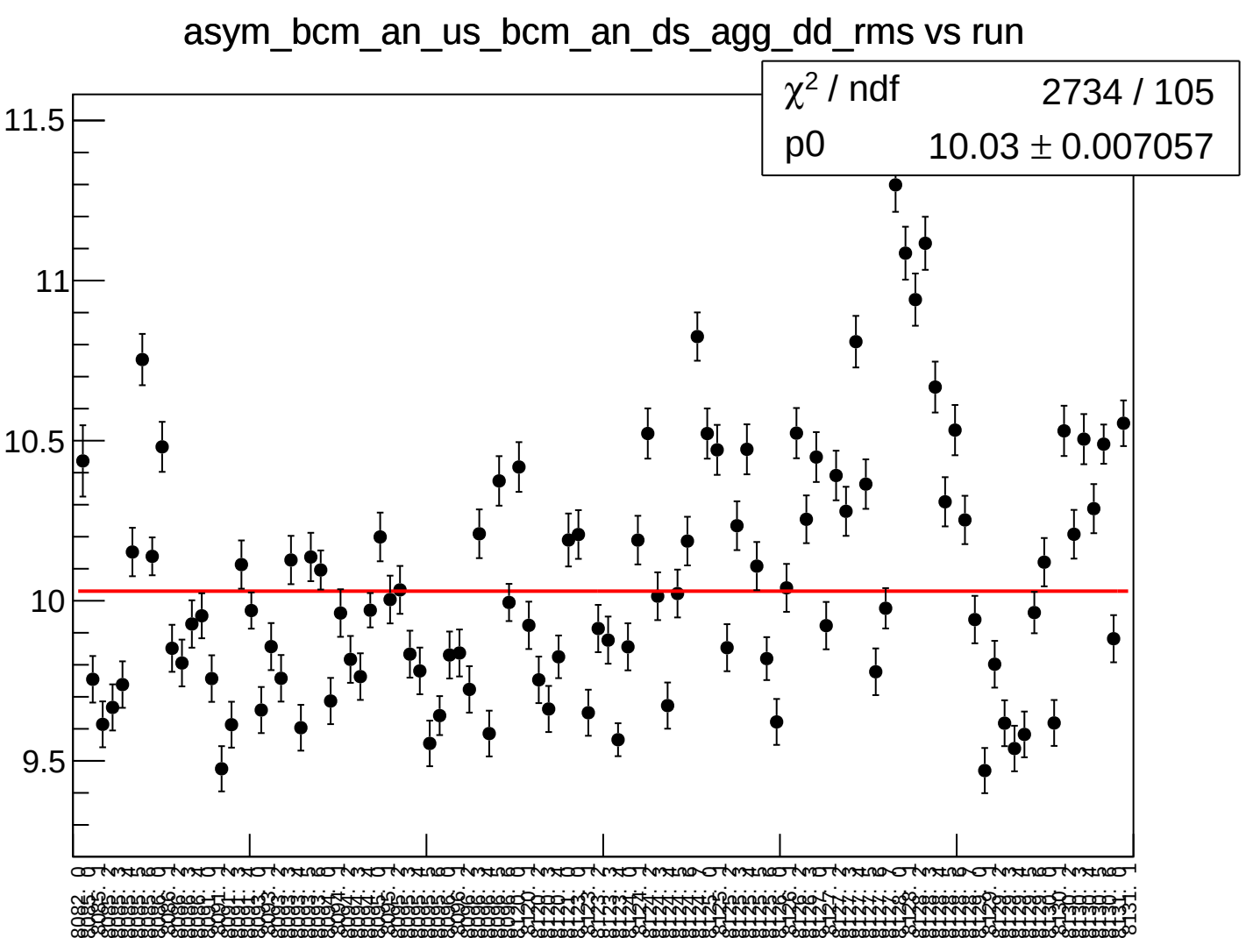

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 111.5 / 105
p0 33.73 ± 20.51
pull
Entries 106
Mean 540.2
Std Dev 0

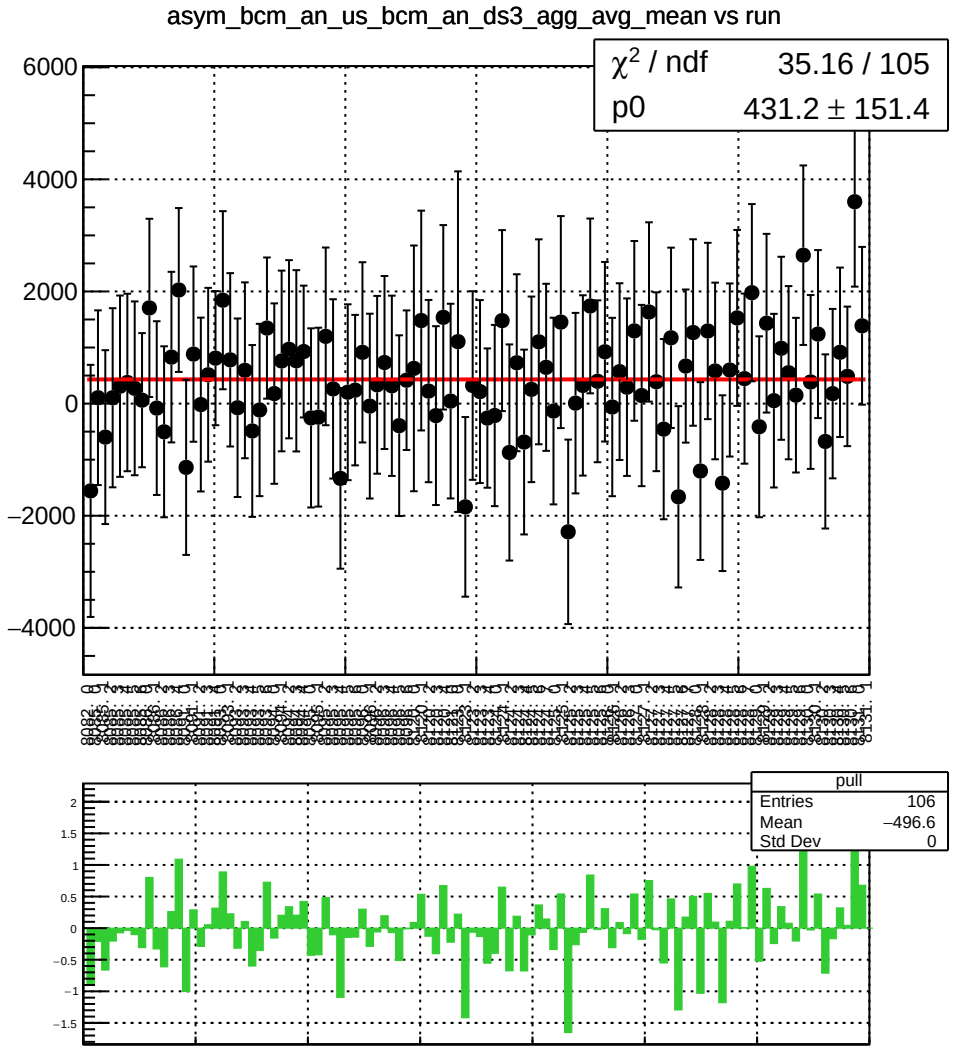

pull1D
Entries 106
Mean 0.001361
Std Dev 1.025

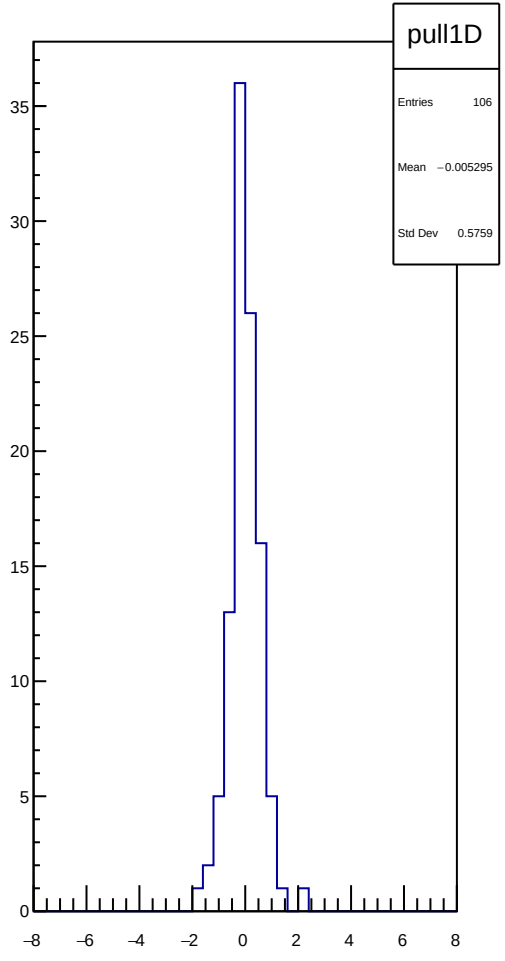

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ2 / ndf 776.8 / 105
p0 20.63 ± 0.01451
22
21.5
21
20.5
20

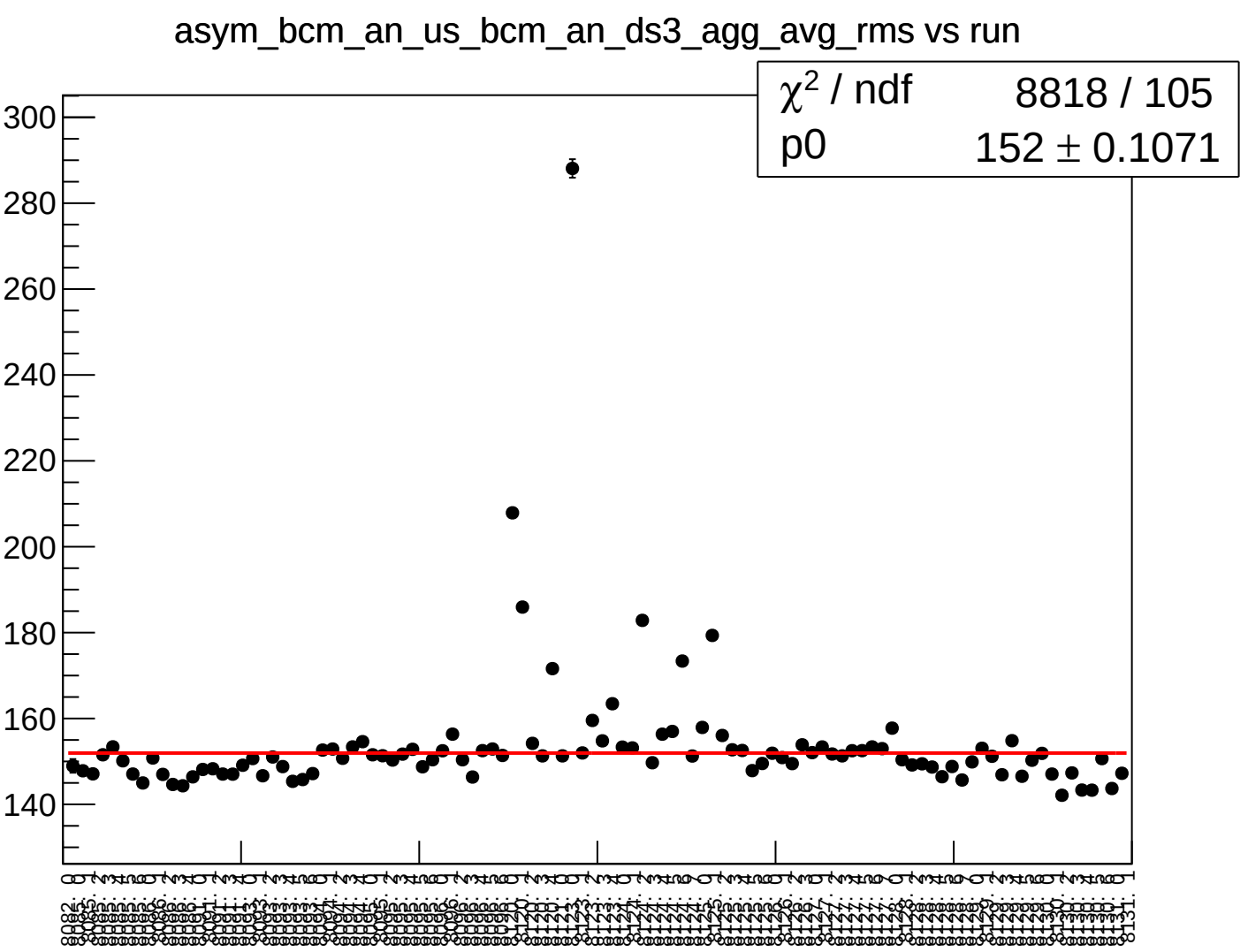

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 117.4 / 105
p0 11.09 ± 9.98
pull
Entries 106
Mean −136.2
Std Dev 0

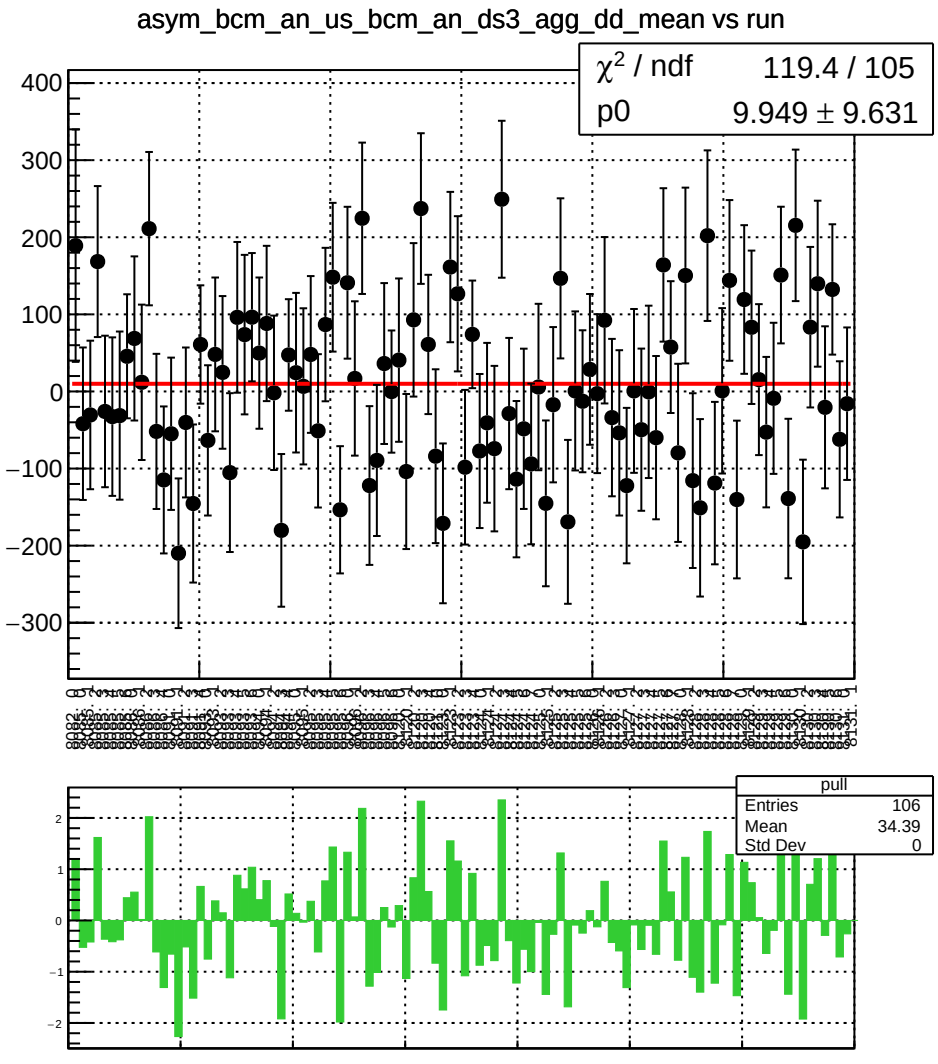

pull1D
Entries 106
Mean −0.01122
Std Dev 1.052

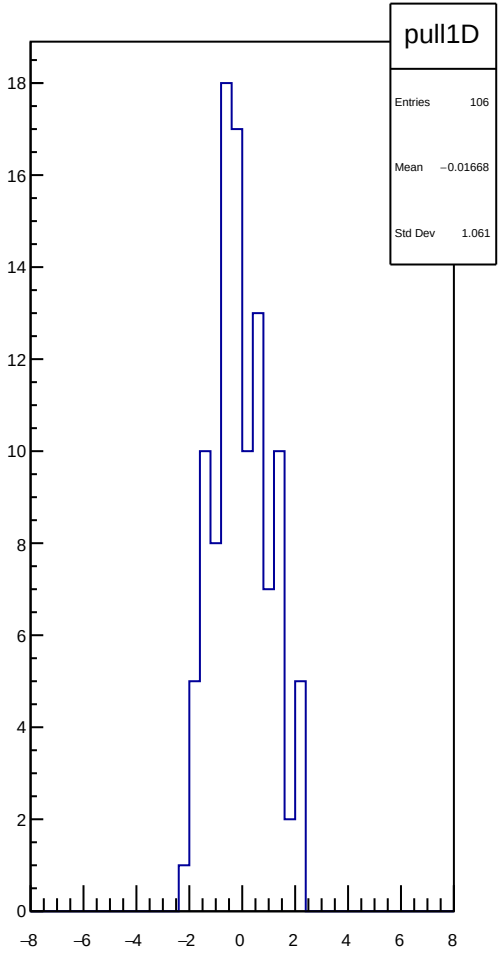

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2734 / 105
p0 10.03 ± 0.007057
11.5
11
10.5
10
9.5

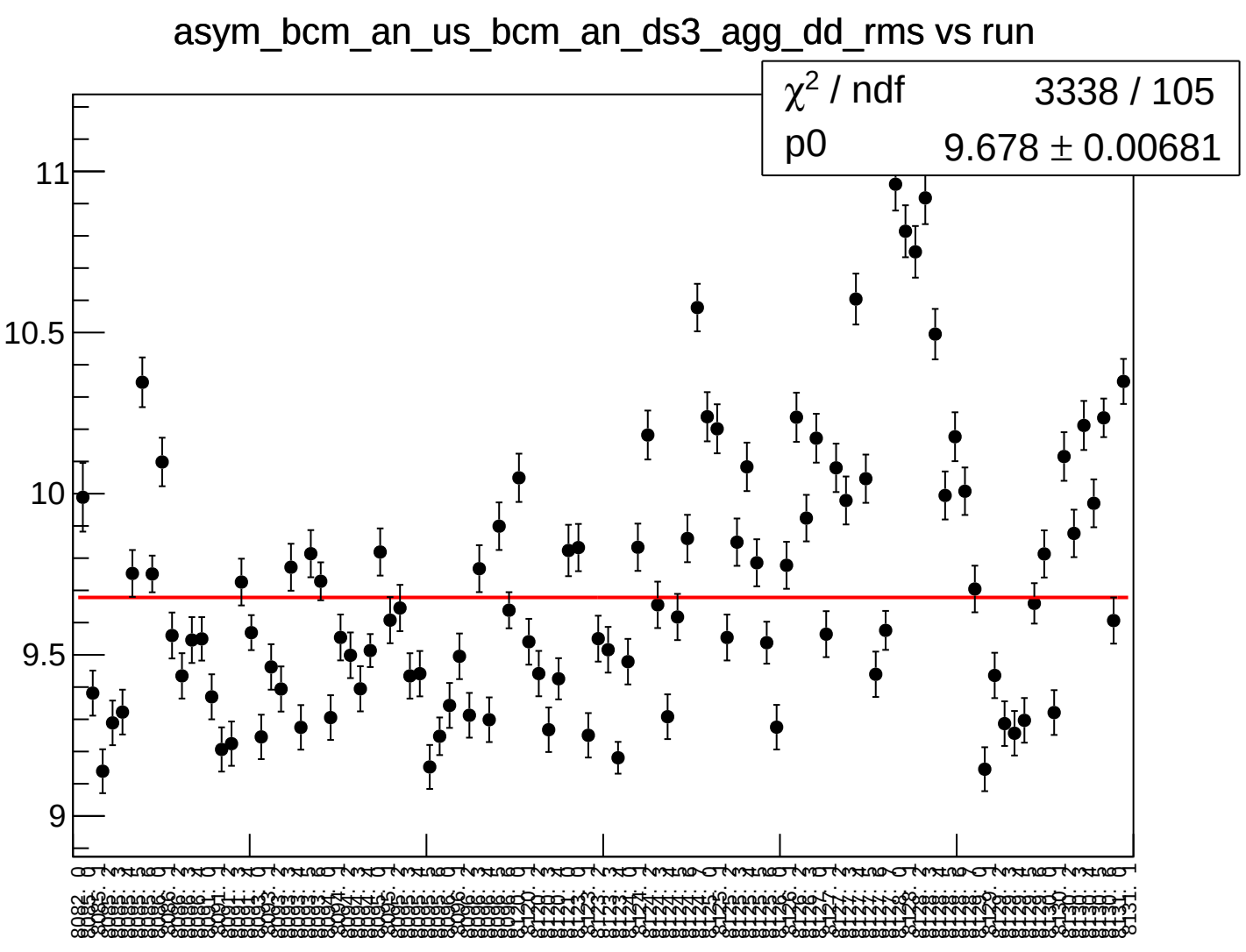

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 35.16 / 105
p0 431.2 ± 151.4
6000
4000
2000
0
−2000
−4000
pull
Entries 106
Mean −496.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

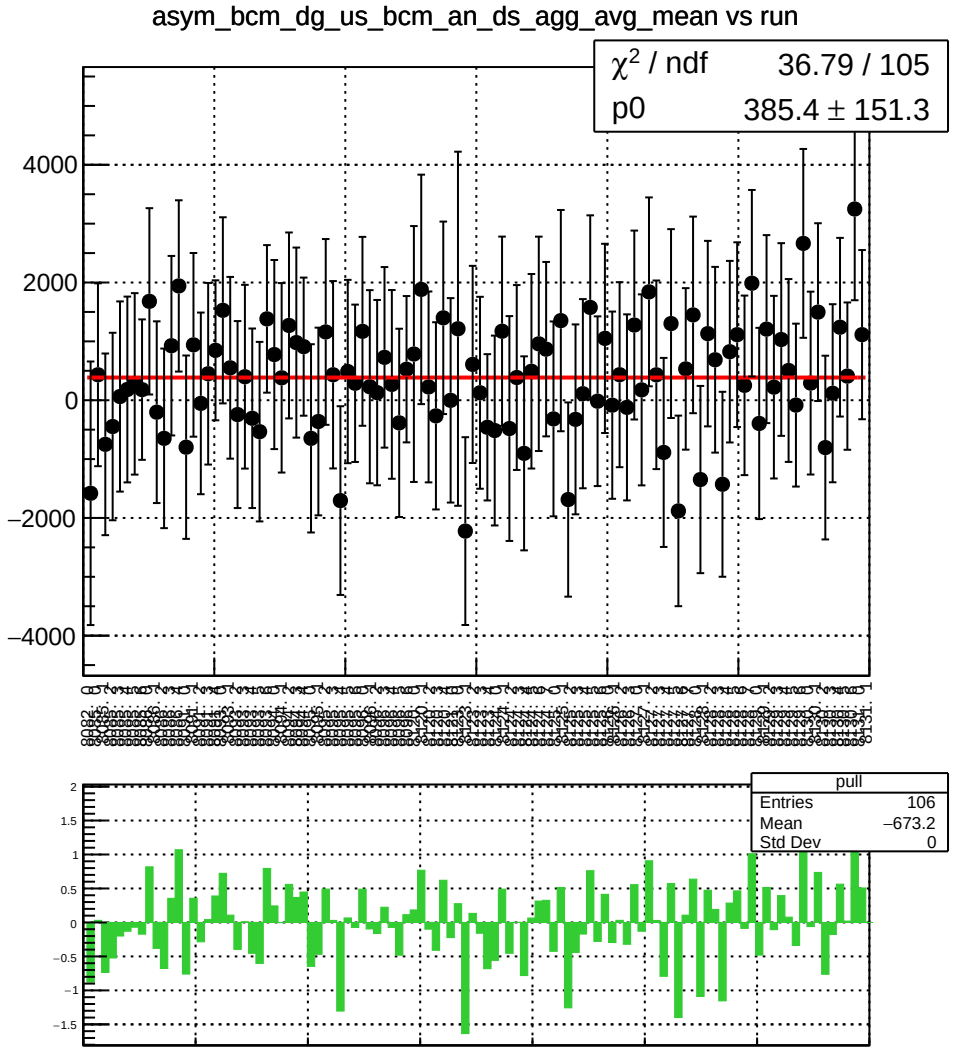

pull1D
Entries 106
Mean −0.005295
Std Dev 0.5759
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

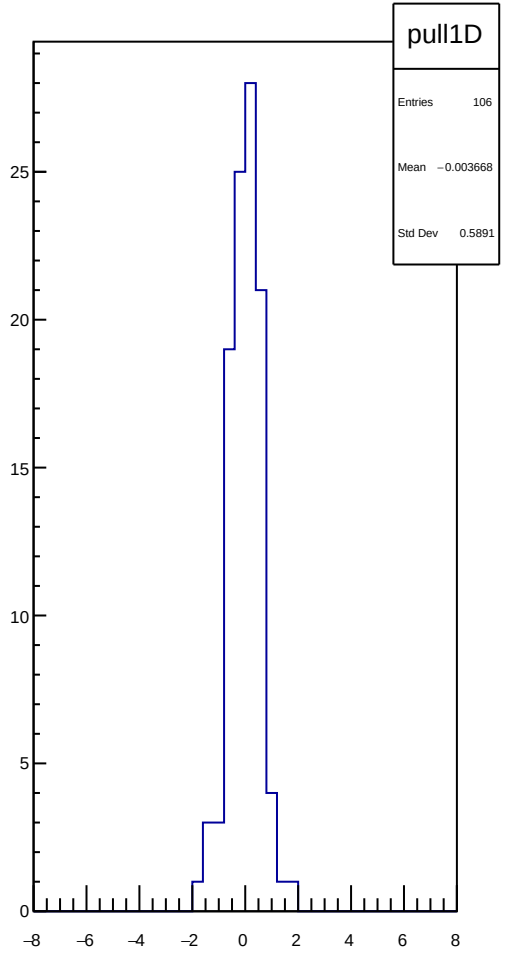

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 8818 / 105
p0 152 ± 0.1071
300
280
260
240
220
200
180
160
140

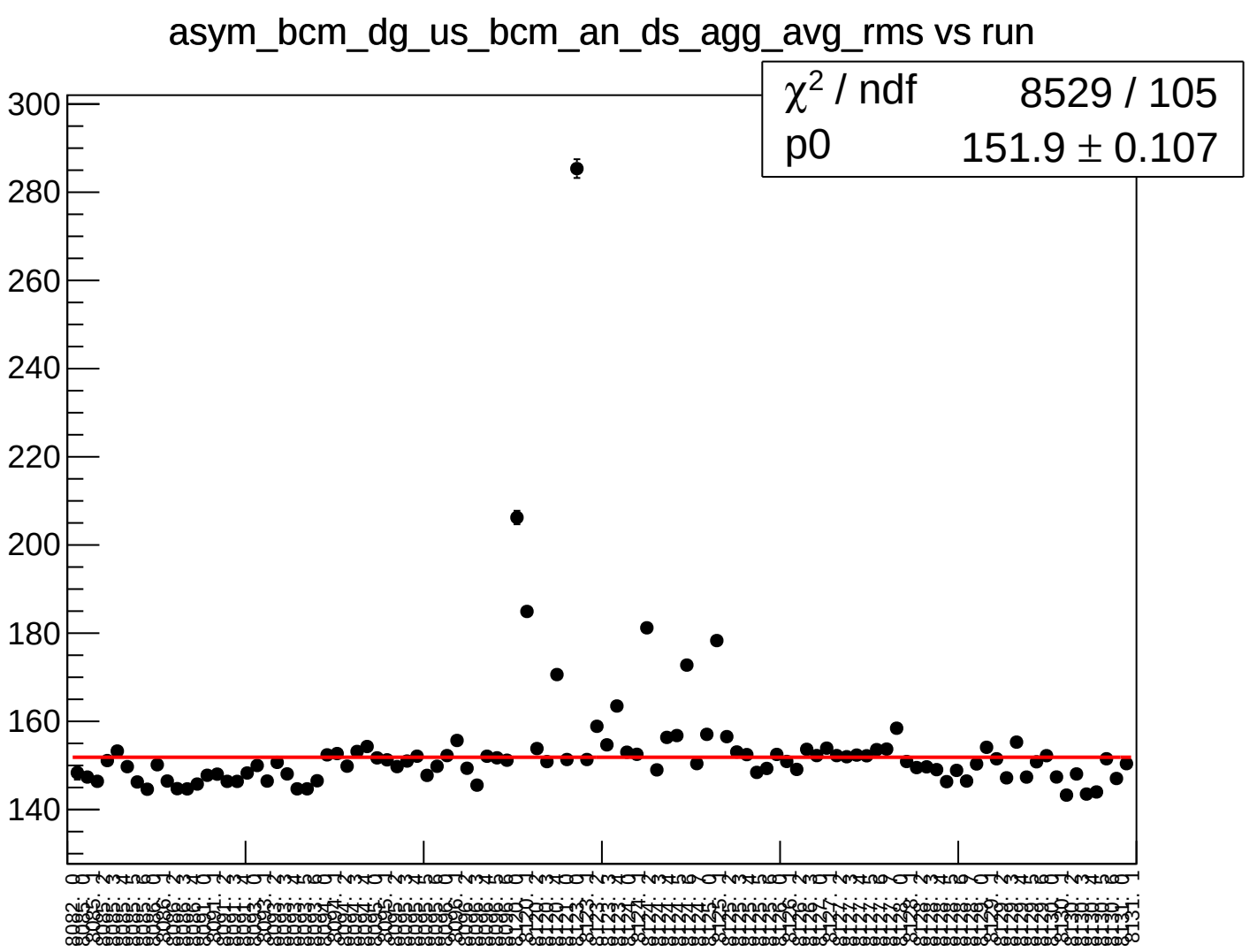

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 119.4 / 105
p0 9.949 ± 9.631
pull
Entries 106
Mean 34.39
Std Dev 0

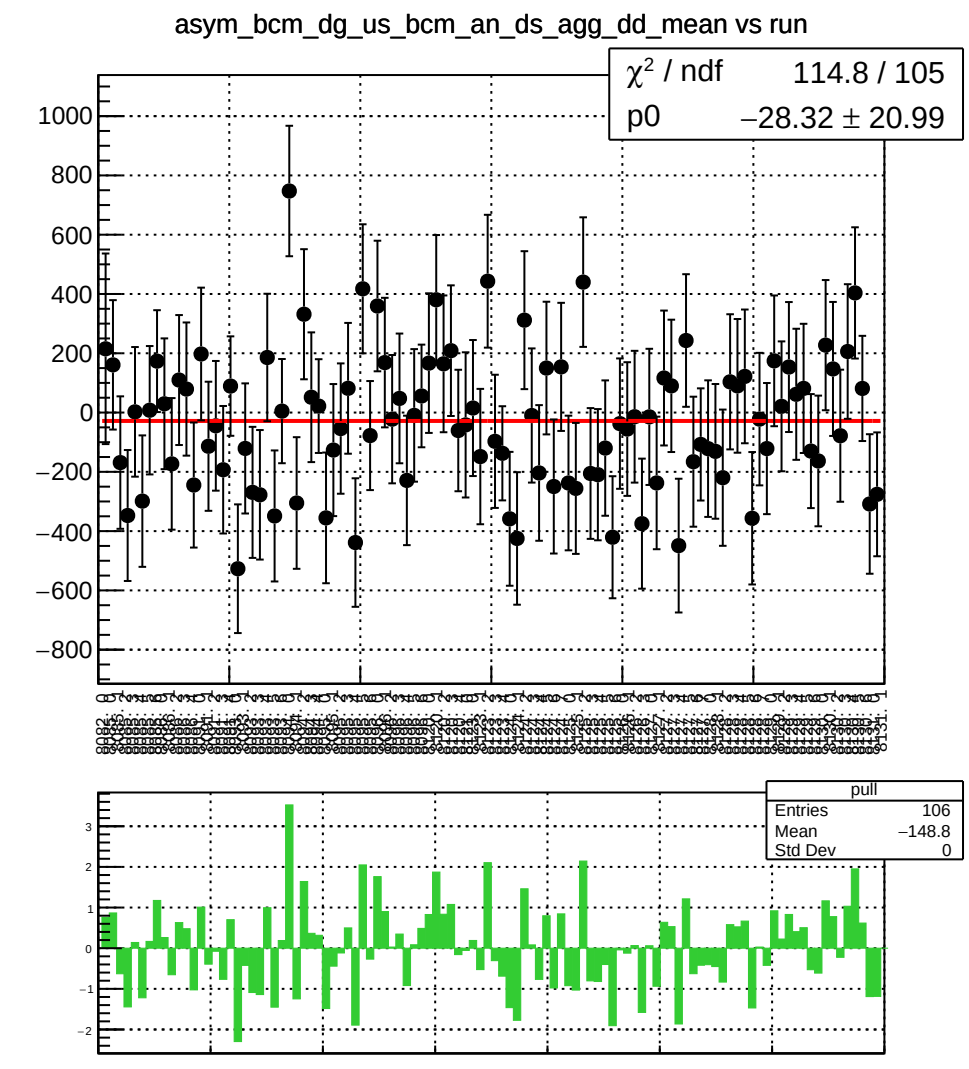

pull1D
Entries 106
Mean −0.01668
Std Dev 1.061

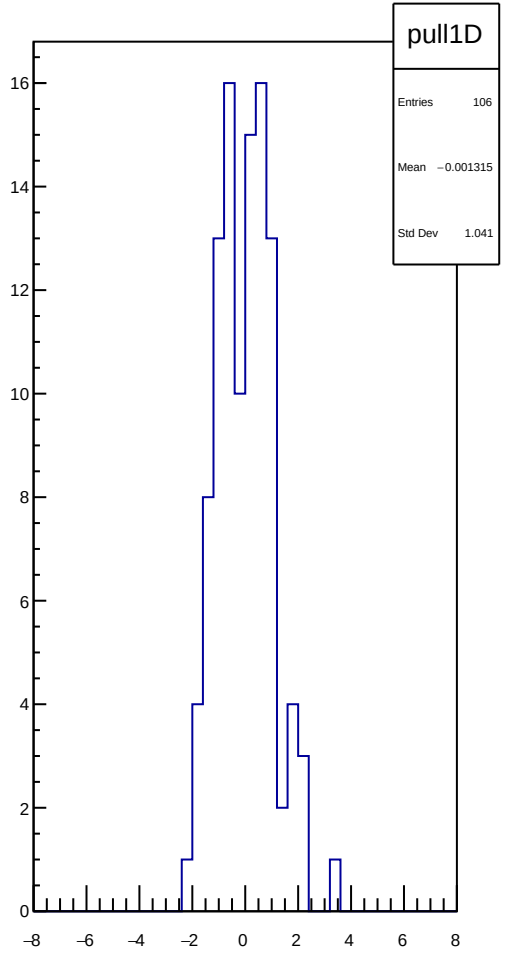

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
$\chi^2$ / ndf 3338 / 105
p0 9.678 ± 0.00681
11
10.5
10
9.5
9

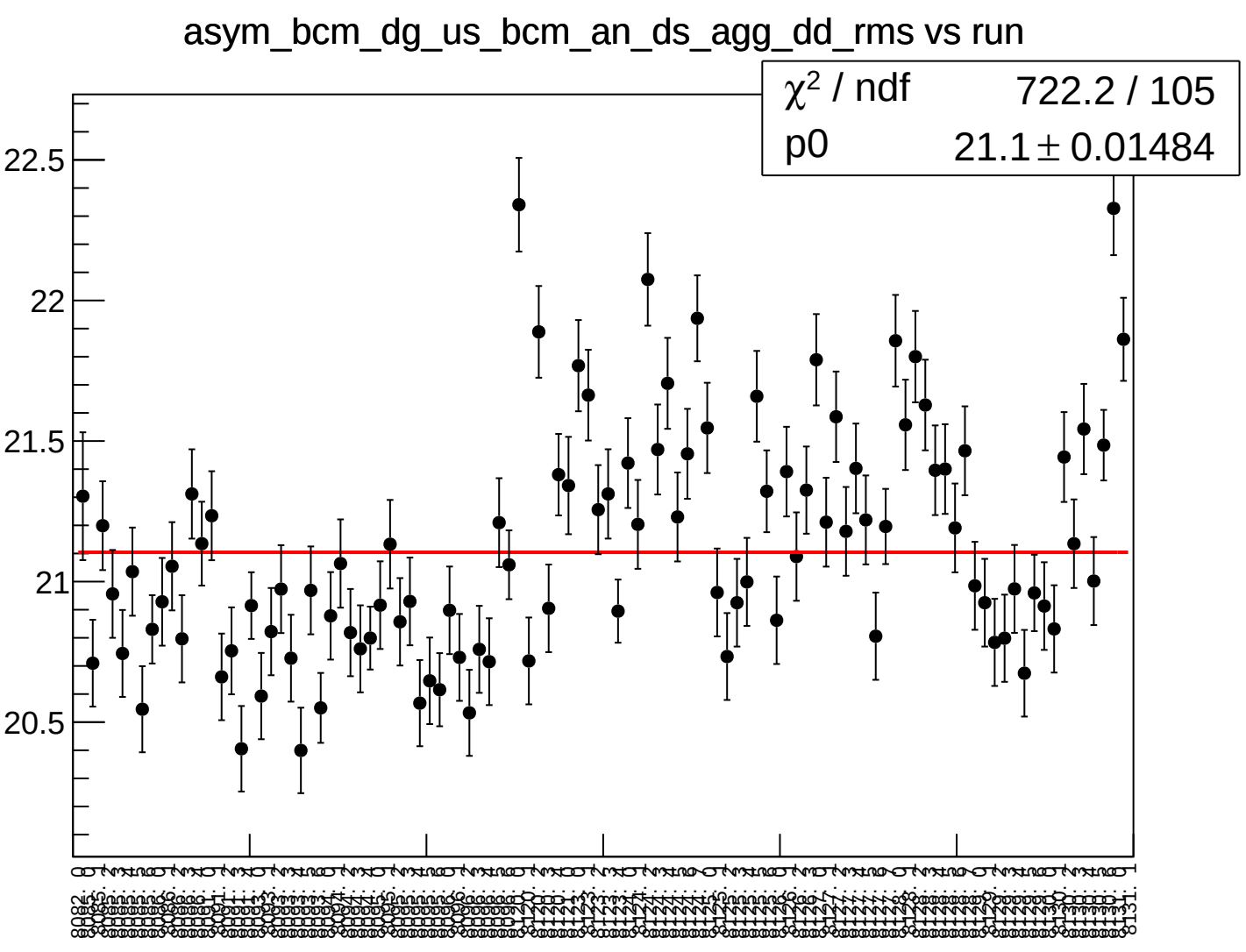

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 36.79 / 105
p0 385.4 ± 151.3
4000
2000
0
−2000
−4000
pull
Entries 106
Mean −673.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

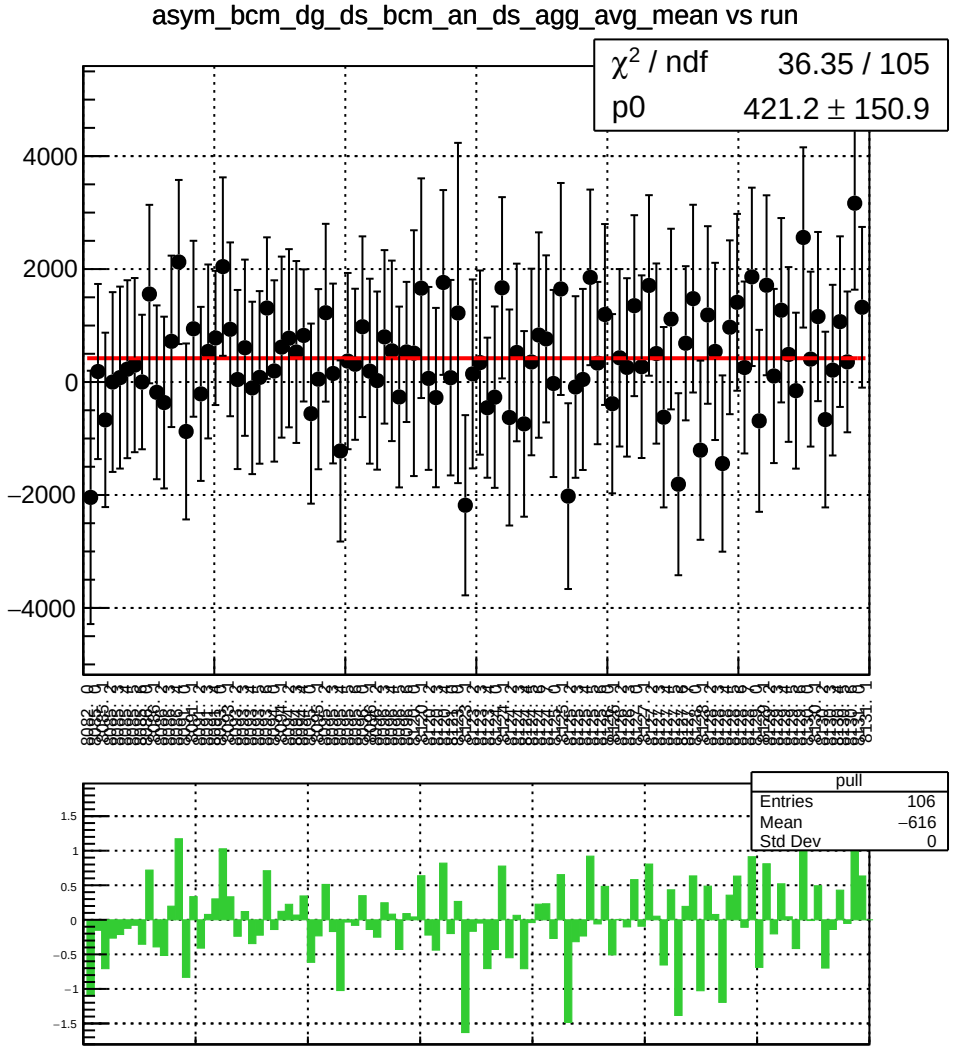

pull1D
Entries 106
Mean −0.003668
Std Dev 0.5891
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

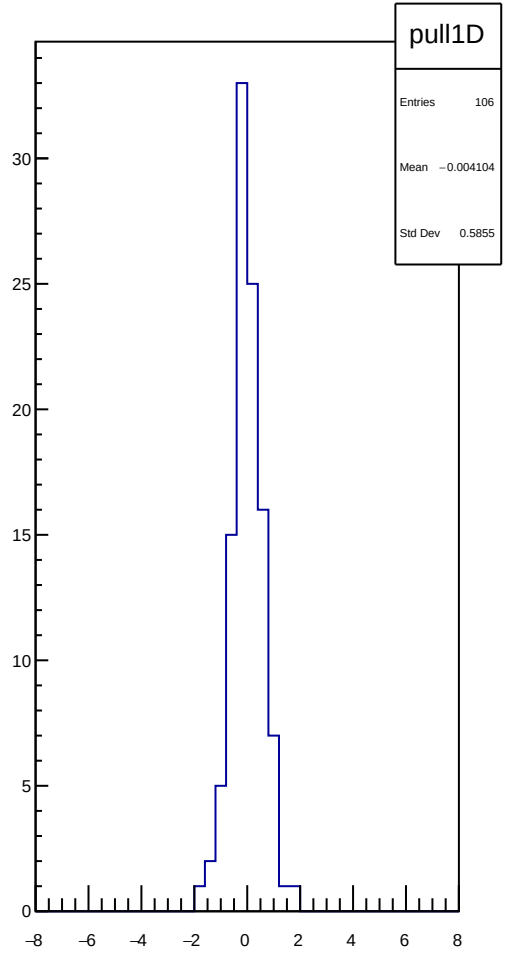

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 8529 / 105
p0 151.9 ± 0.107
300
280
260
240
220
200
180
160
140

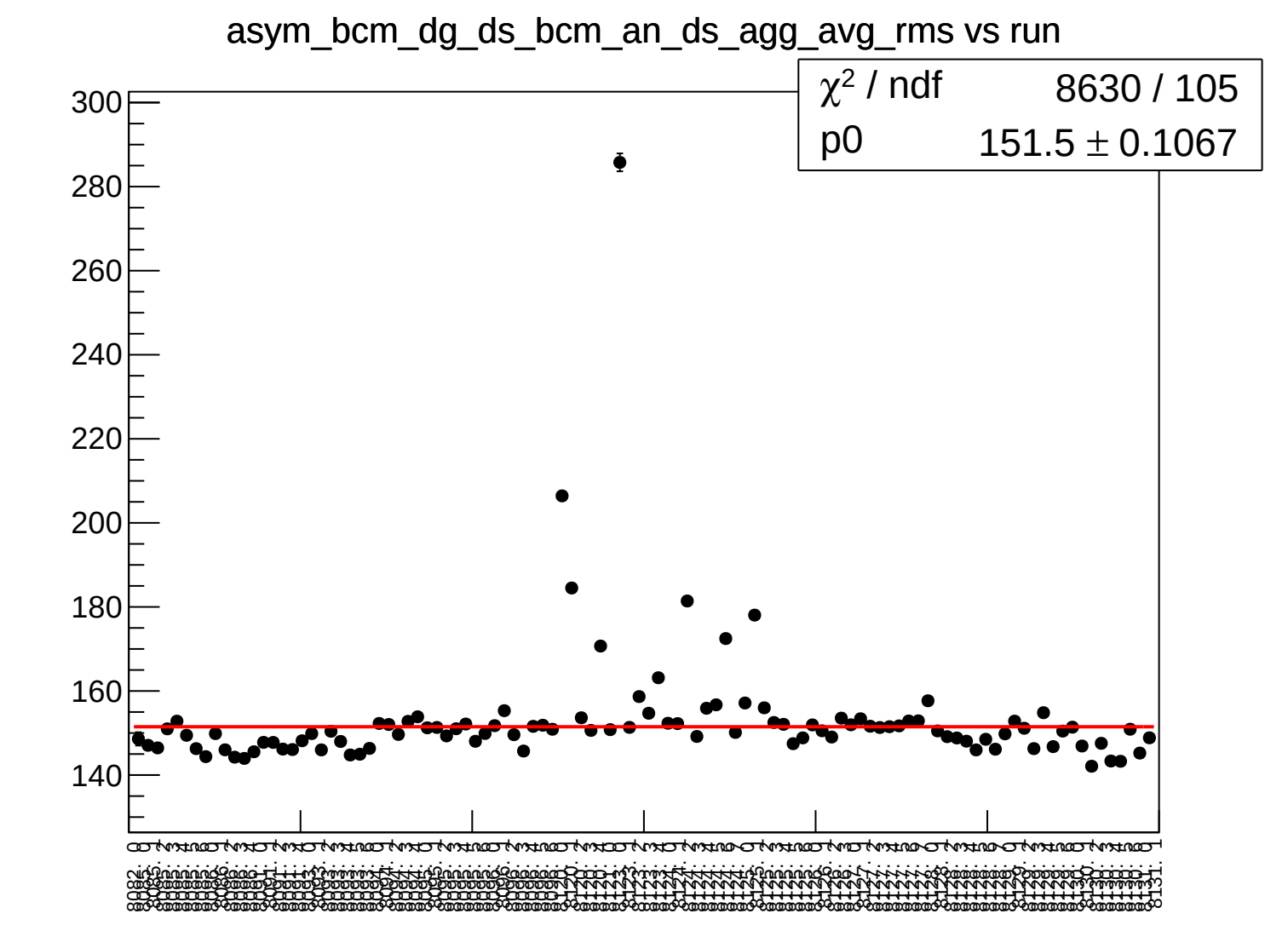

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 114.8 / 105
p0 −28.32 ± 20.99
1000
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 106
Mean −148.8
Std Dev 0
3
2
1
0
−1
−2

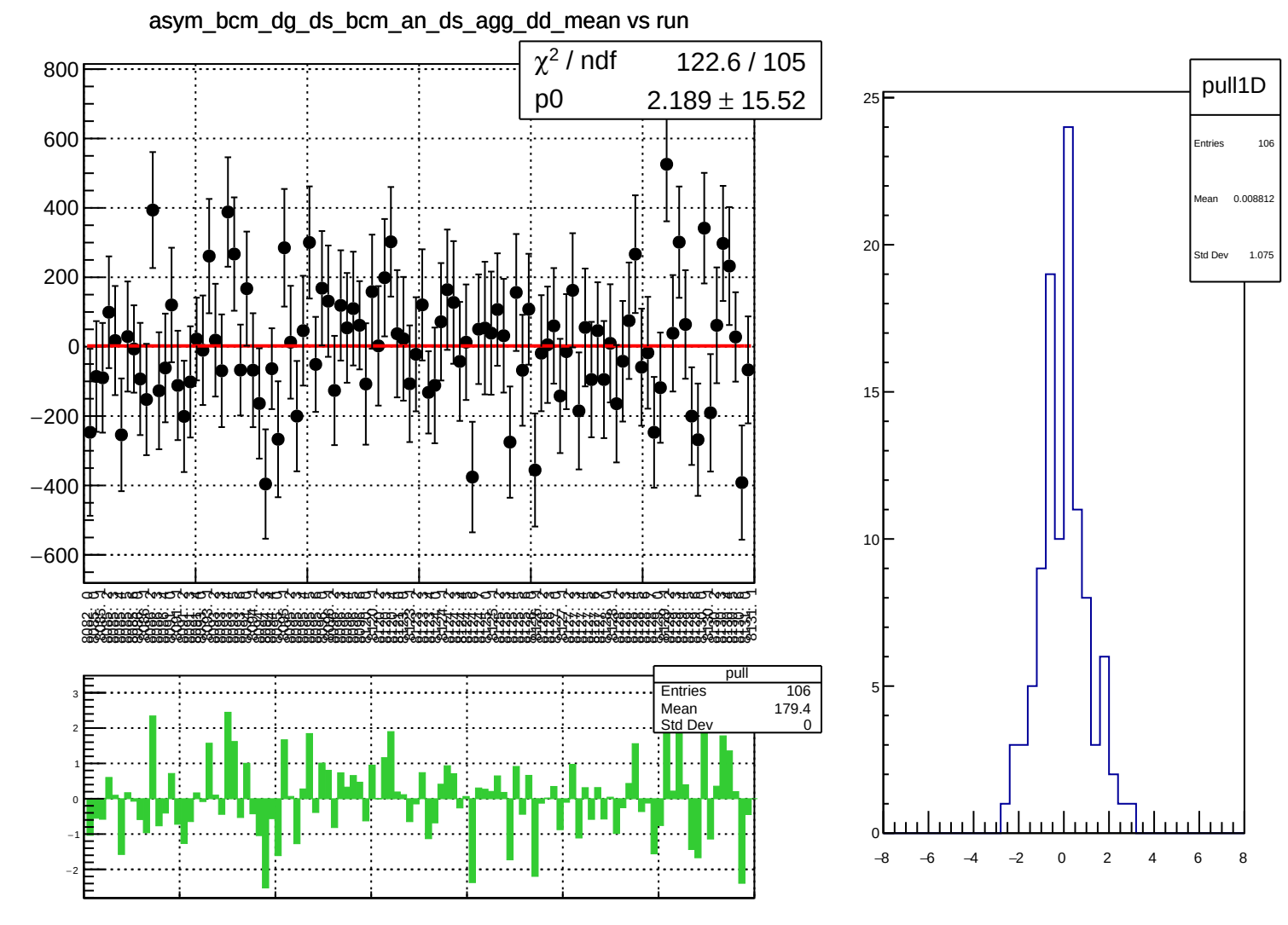

pull1D
Entries 106
Mean −0.001315
Std Dev 1.041
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

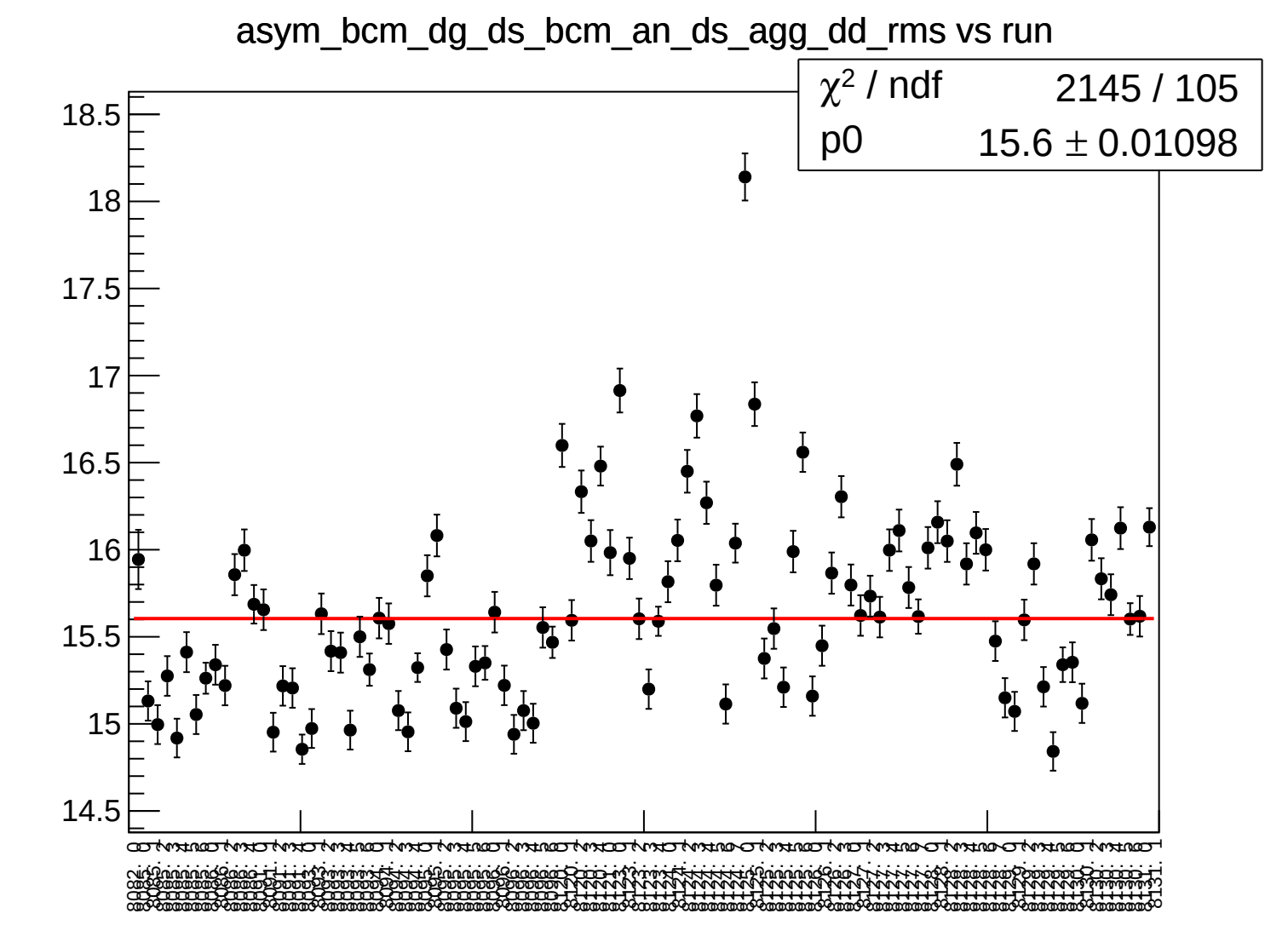

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 722.2 / 105
p0 21.1 ± 0.01484
22.5
22
21.5
21
20.5

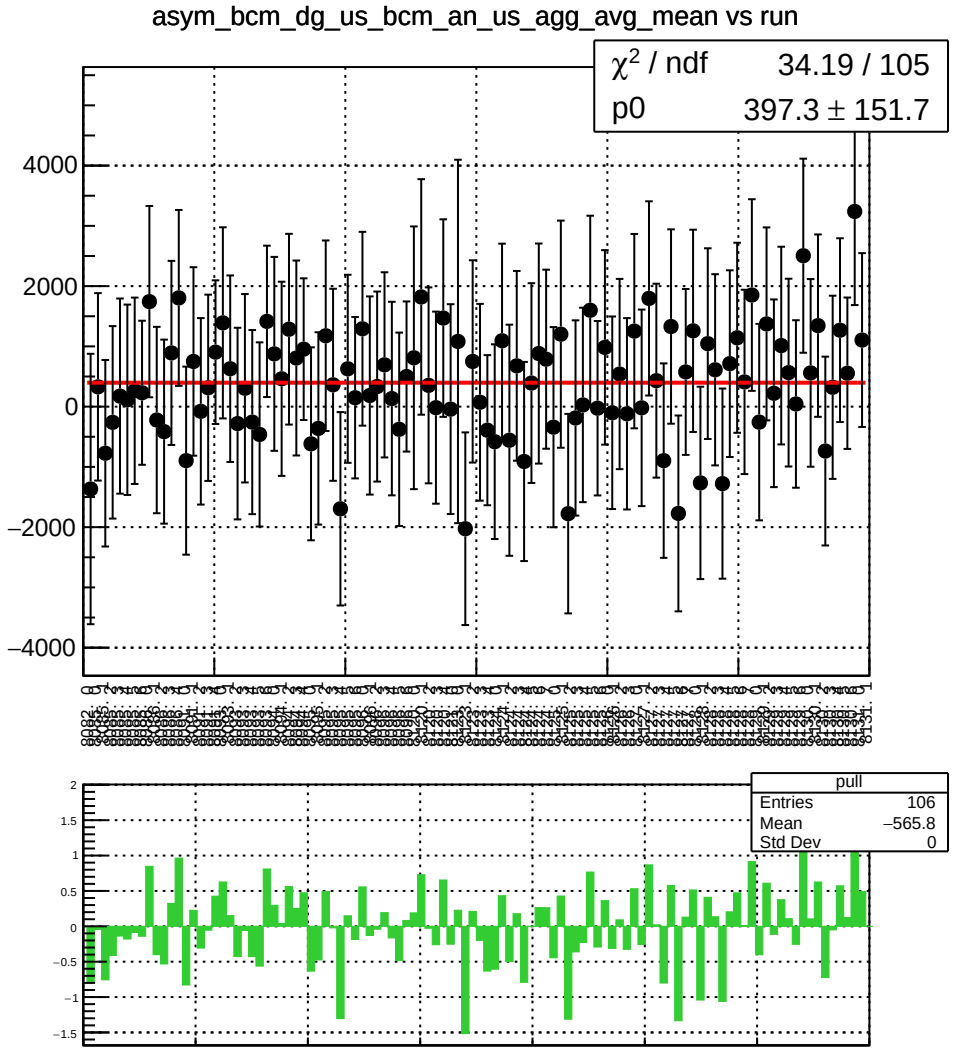

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 36.35 / 105
p0 421.2 ± 150.9
4000
2000
0
−2000
−4000
pull
Entries 106
Mean −616
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

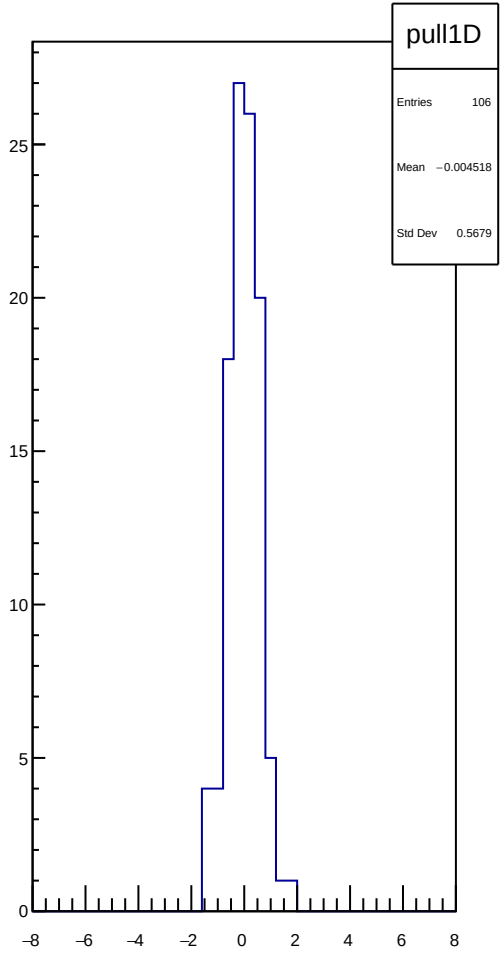

pull1D
Entries 106
Mean −0.004104
Std Dev 0.5855
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

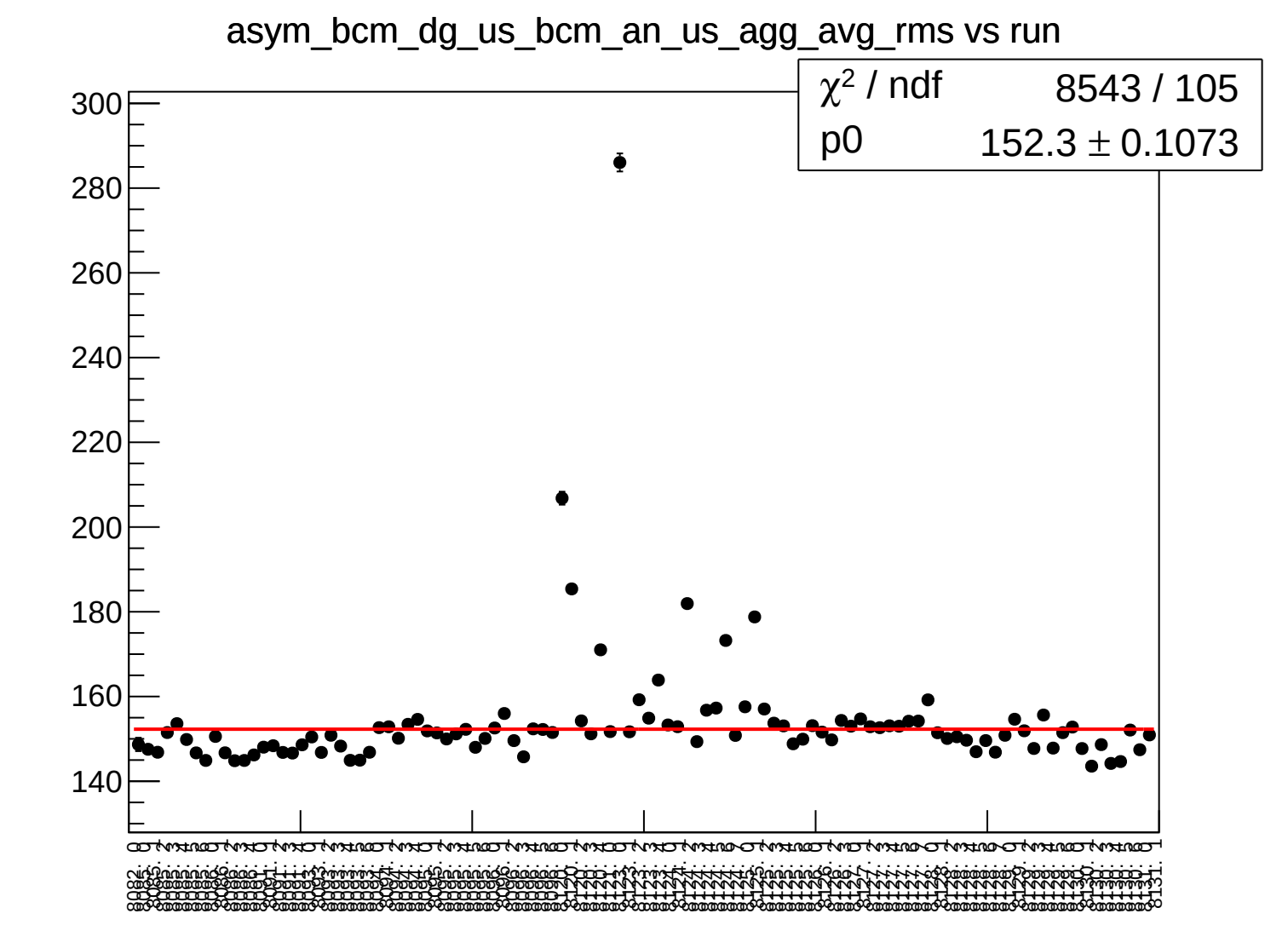

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 8630 / 105
p0 151.5 ± 0.1067
300
280
260
240
220
200
180
160
140

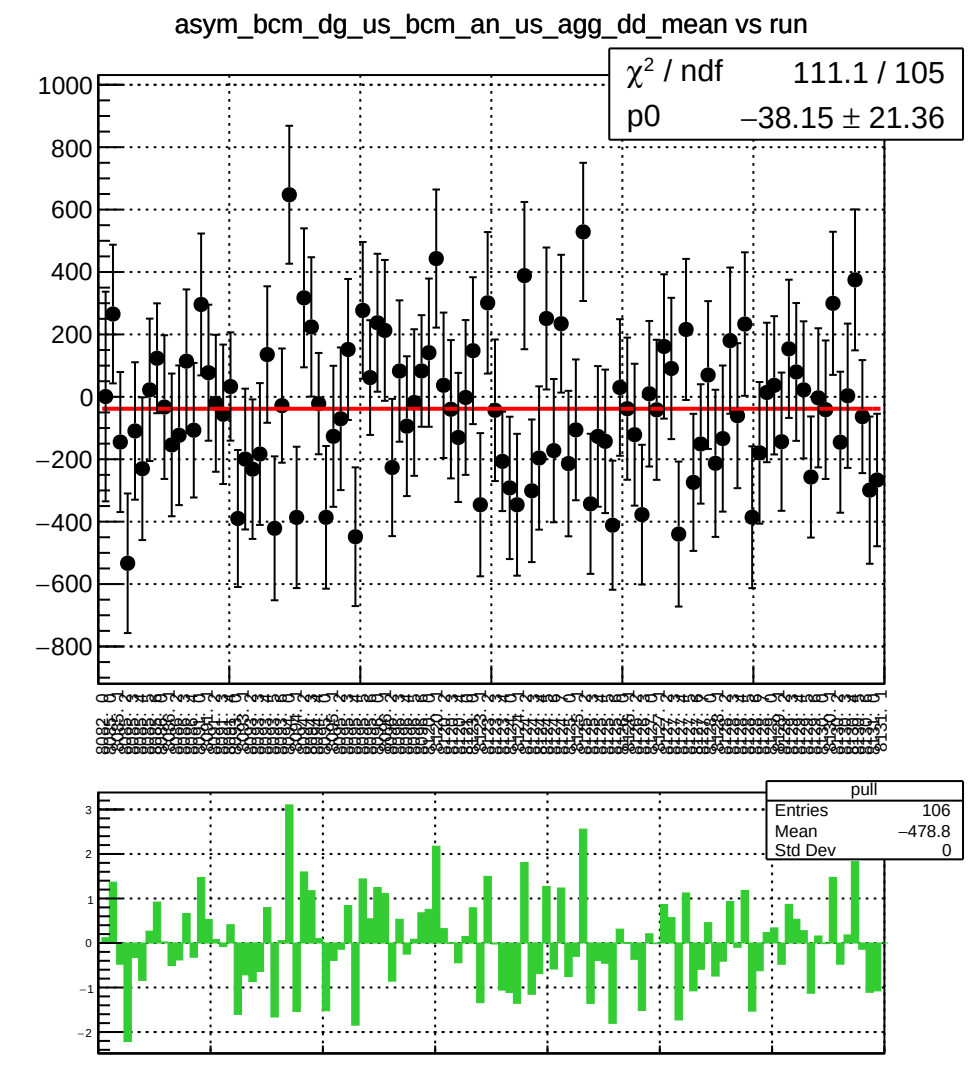

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 122.6 / 105
p0 2.189 ± 15.52
800
600
400
200
0
−200
−400
−600
pull
Entries 106
Mean 179.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 106
Mean 0.008812
Std Dev 1.075
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

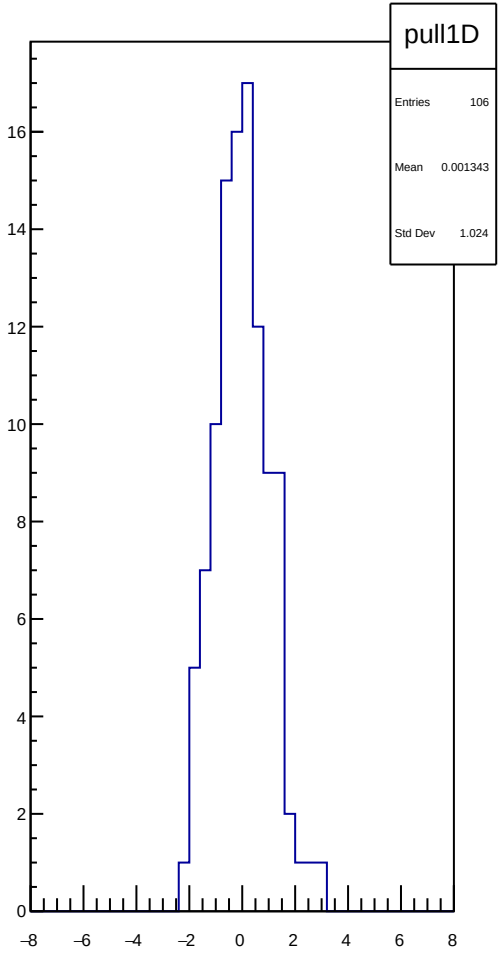

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2145 / 105
p0 15.6 ± 0.01098
18.5
18
17.5
17
16.5
16
15.5
15
14.5

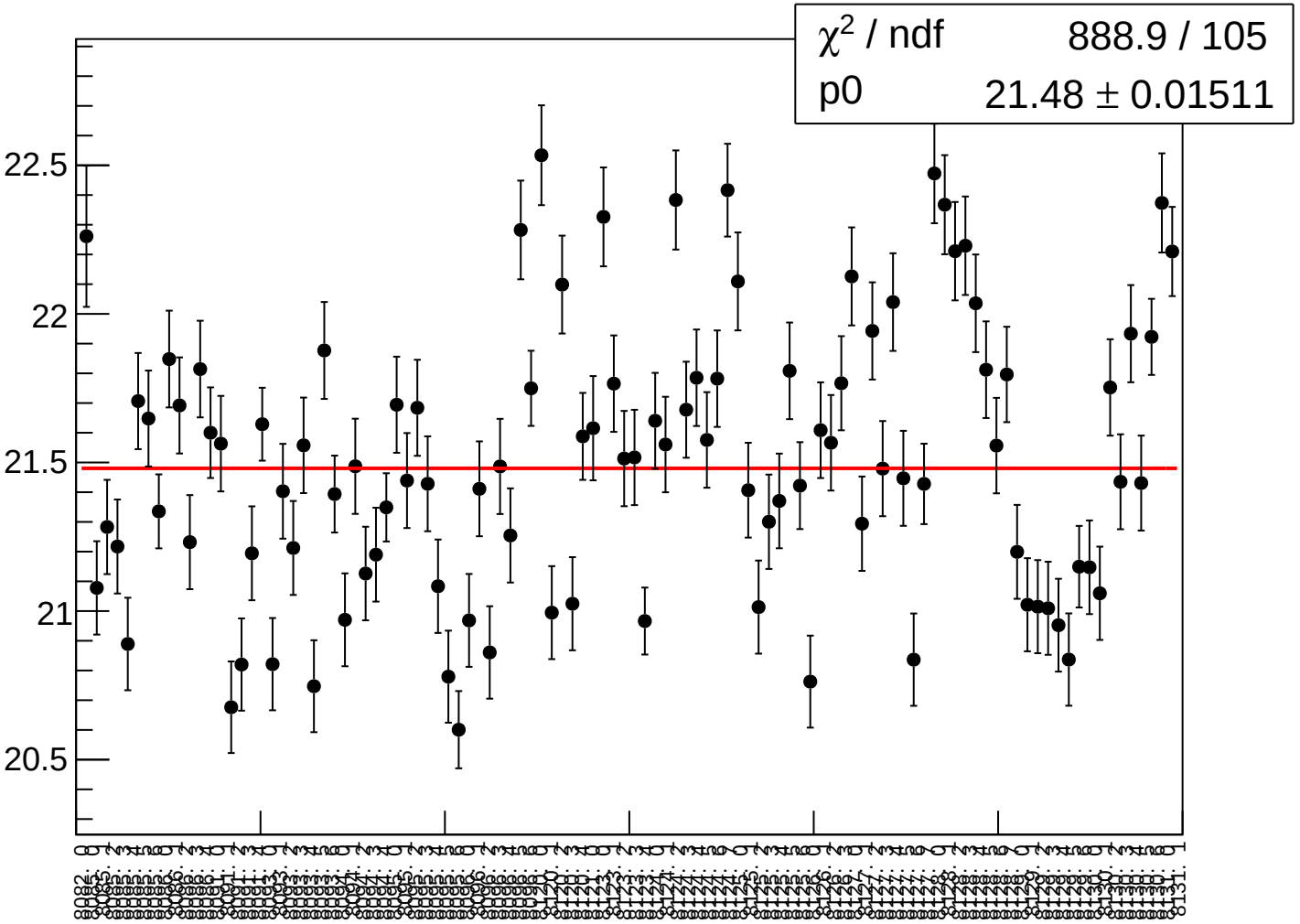

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 34.19 / 105
p0 397.3 ± 151.7
4000
2000
0
−2000
−4000
pull
Entries 106
Mean −565.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

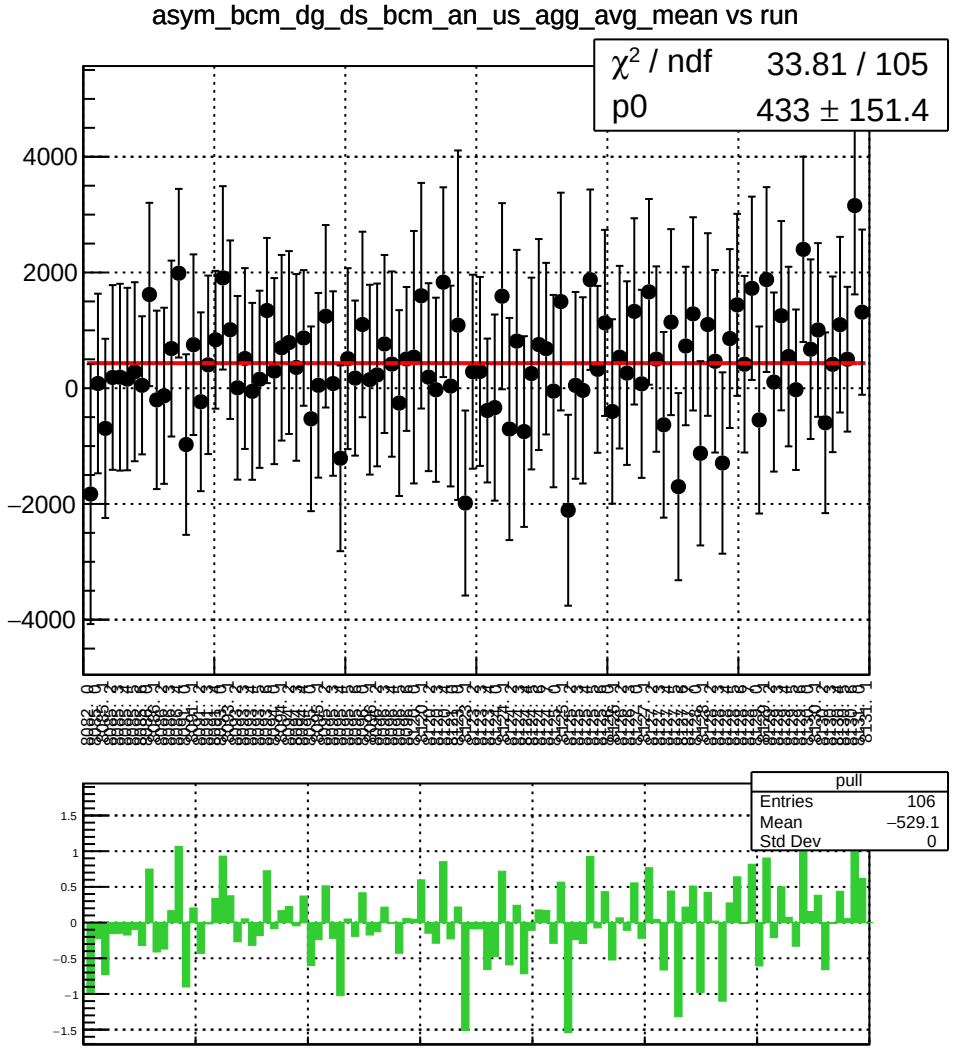

pull1D
Entries 106
Mean −0.004518
Std Dev 0.5679
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

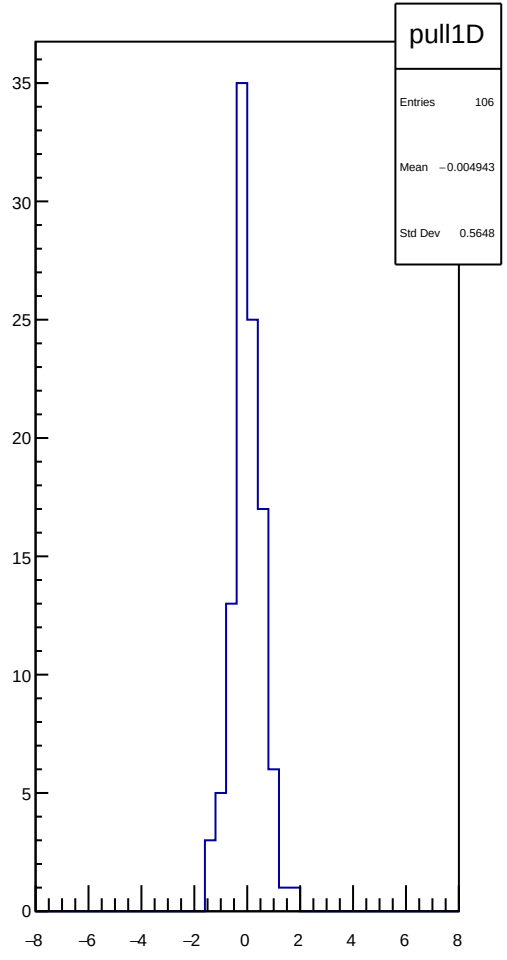

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 8543 / 105
p0 152.3 ± 0.1073
300
280
260
240
220
200
180
160
140

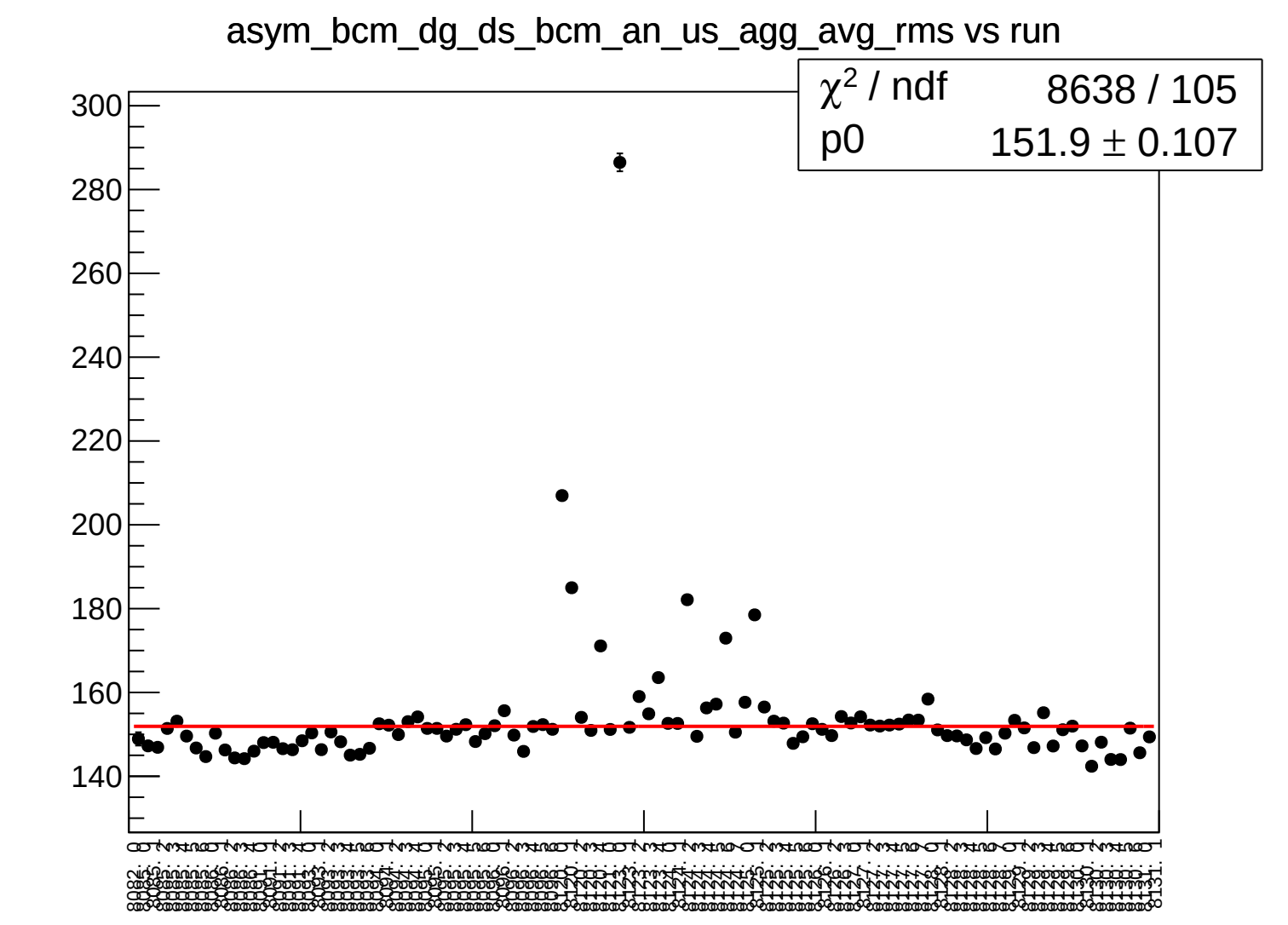

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 111.1 / 105
p0 −38.15 ± 21.36
pull
Entries 106
Mean −478.8
Std Dev 0

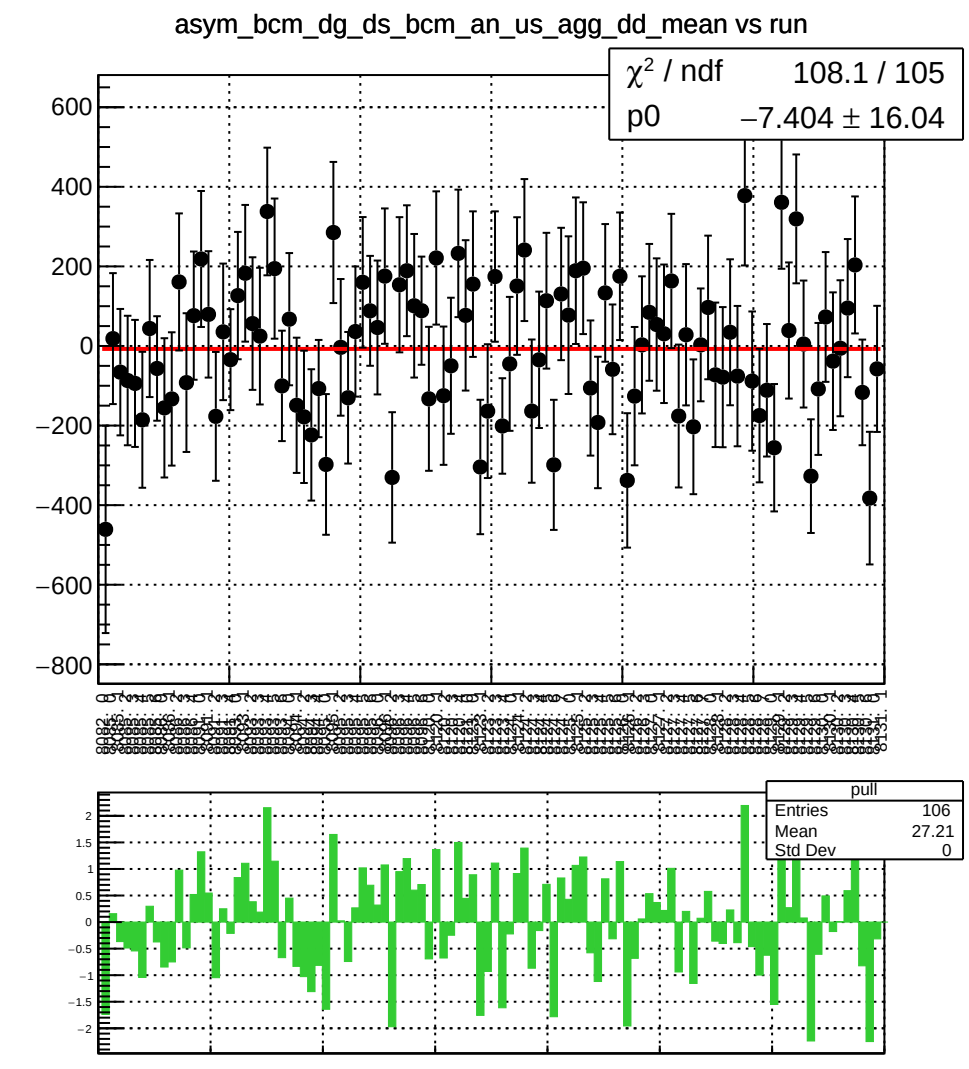

pull1D
Entries 106
Mean 0.001343
Std Dev 1.024

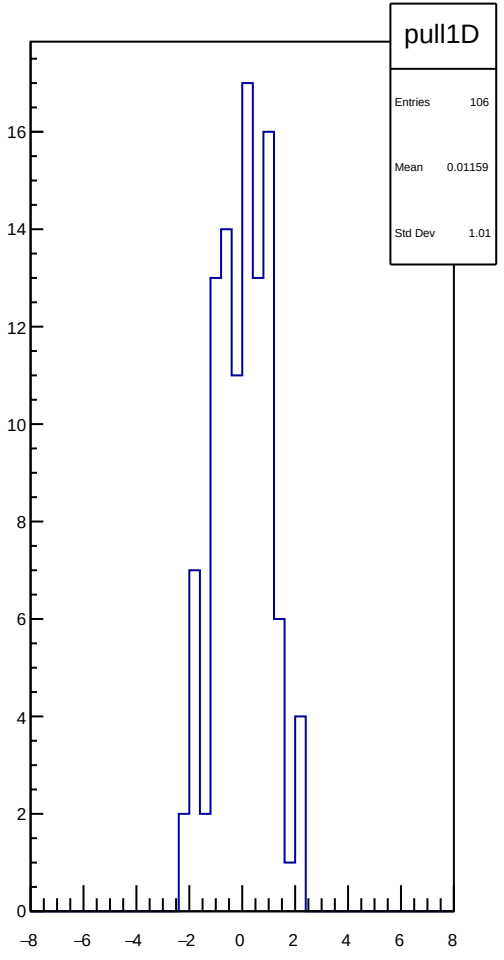

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 888.9 / 105
p0 21.48 ± 0.01511
22.5
22
21.5
21
20.5

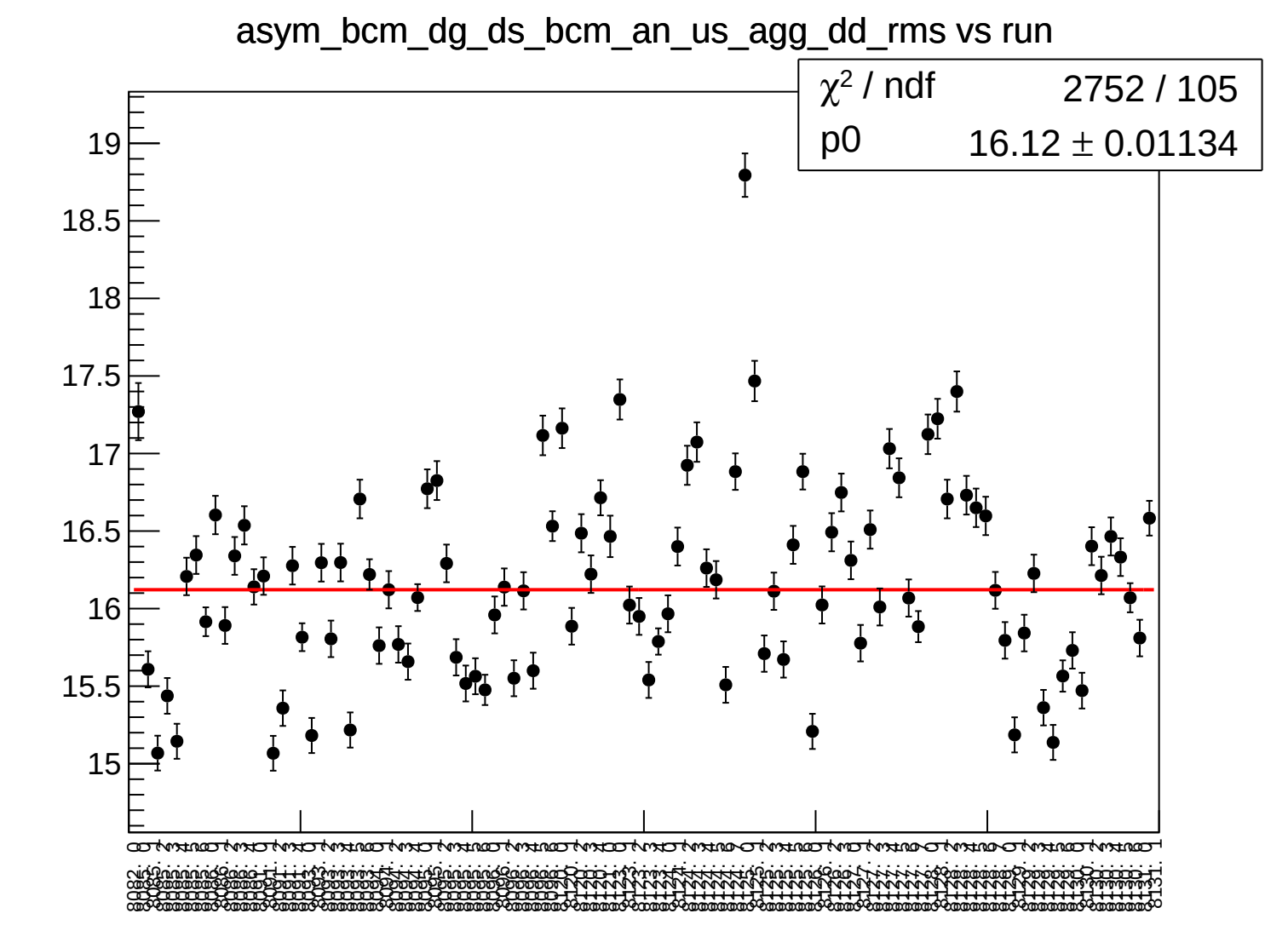

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 33.81 / 105
p0 433 ± 151.4
4000
2000
0
−2000
−4000
pull
Entries 106
Mean −529.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

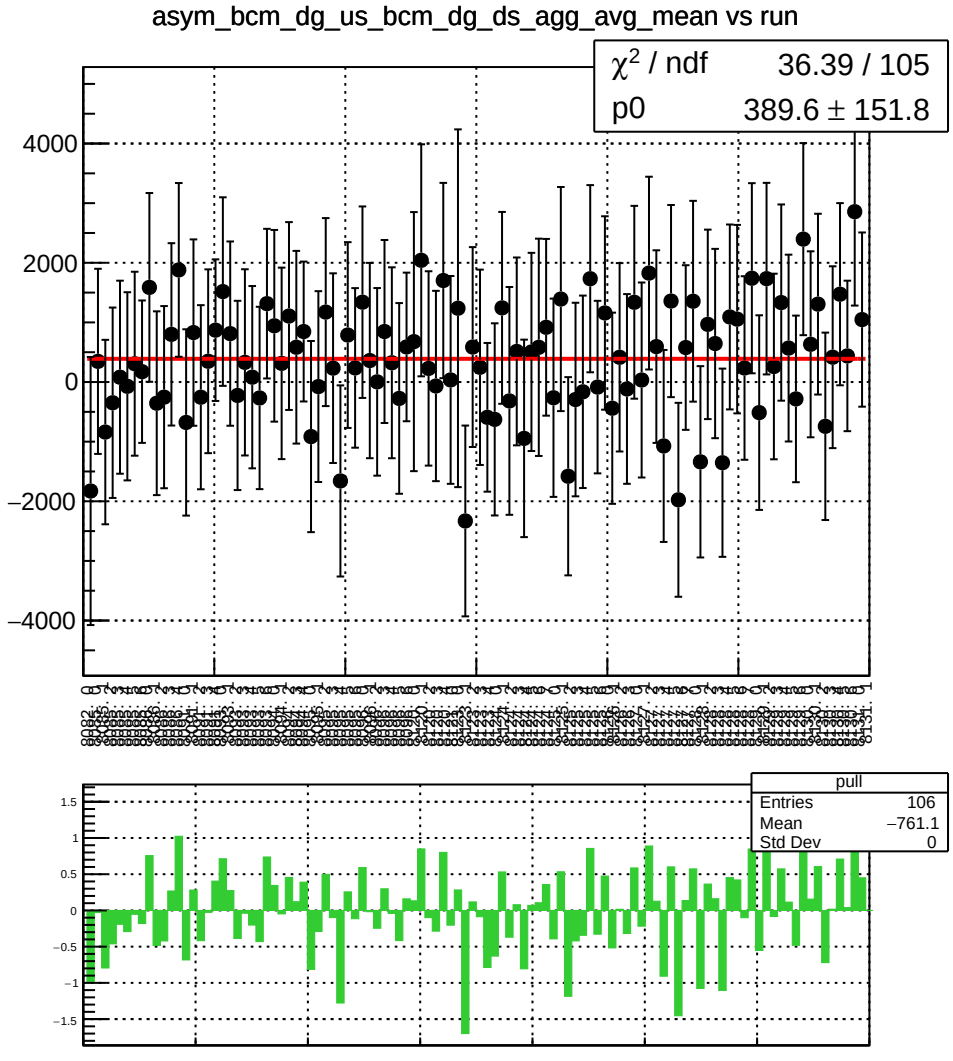

pull1D
Entries 106
Mean −0.004943
Std Dev 0.5648
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

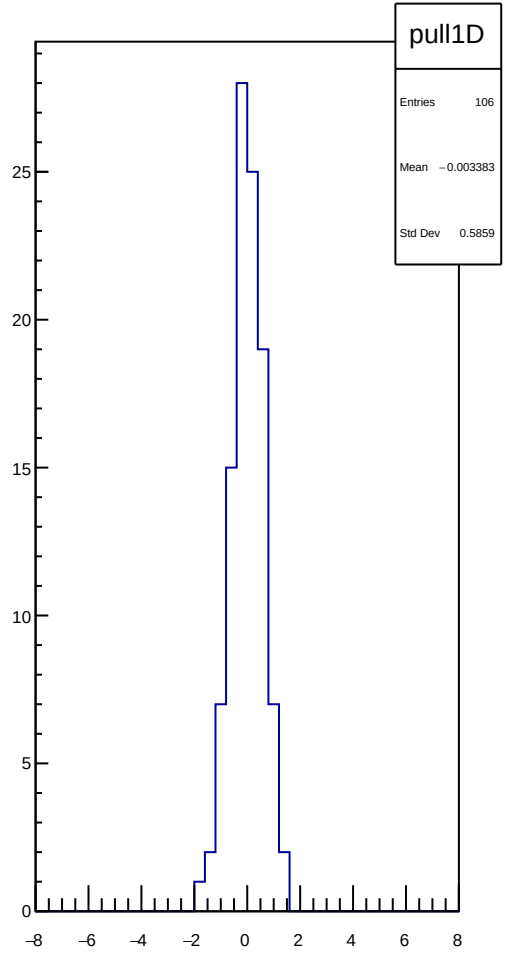

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 8638 / 105
p0 151.9 ± 0.107
300
280
260
240
220
200
180
160
140

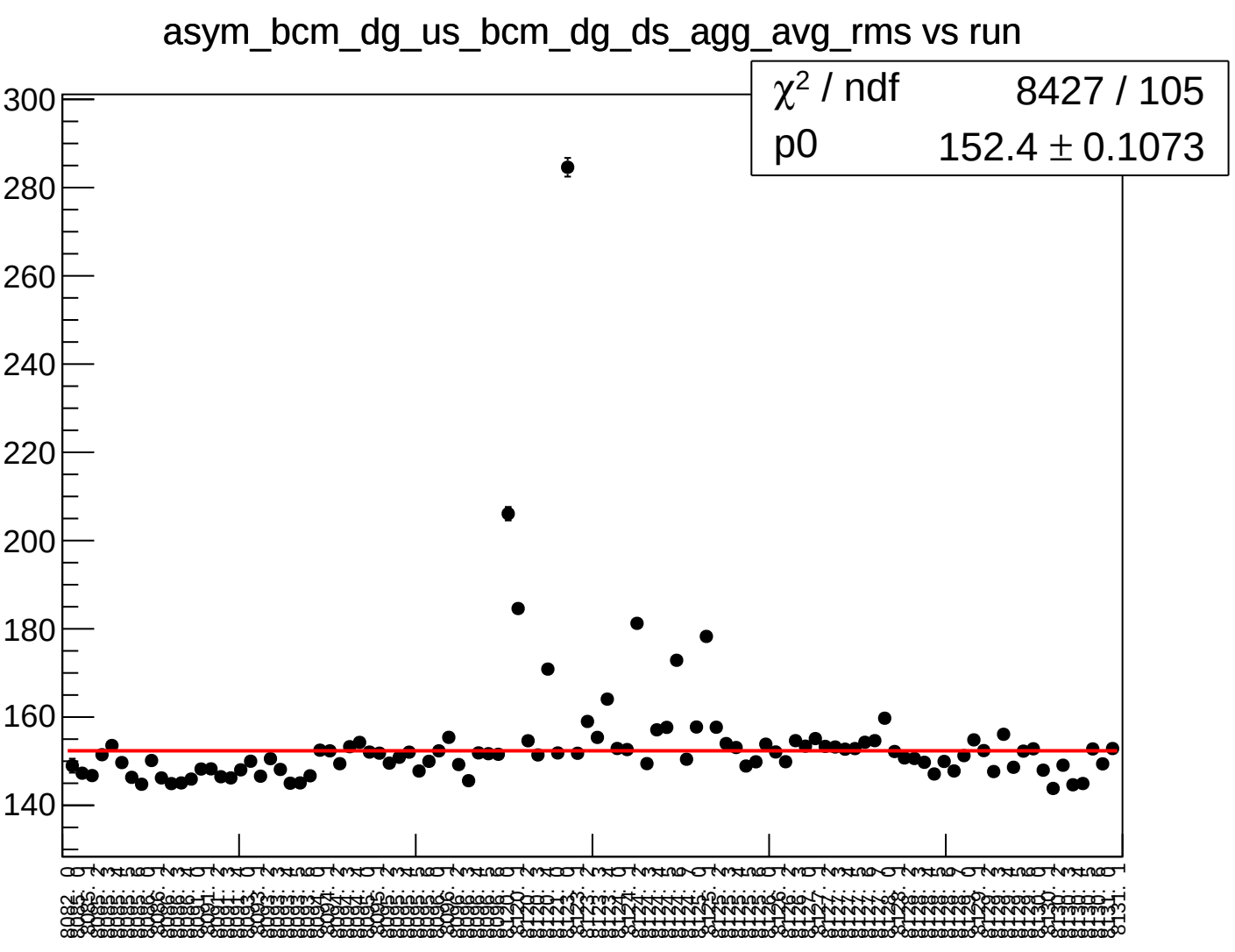

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 108.1 / 105
p0 −7.404 ± 16.04
600
400
200
0
−200
−400
−600
−800
pull
Entries 106
Mean 27.21
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

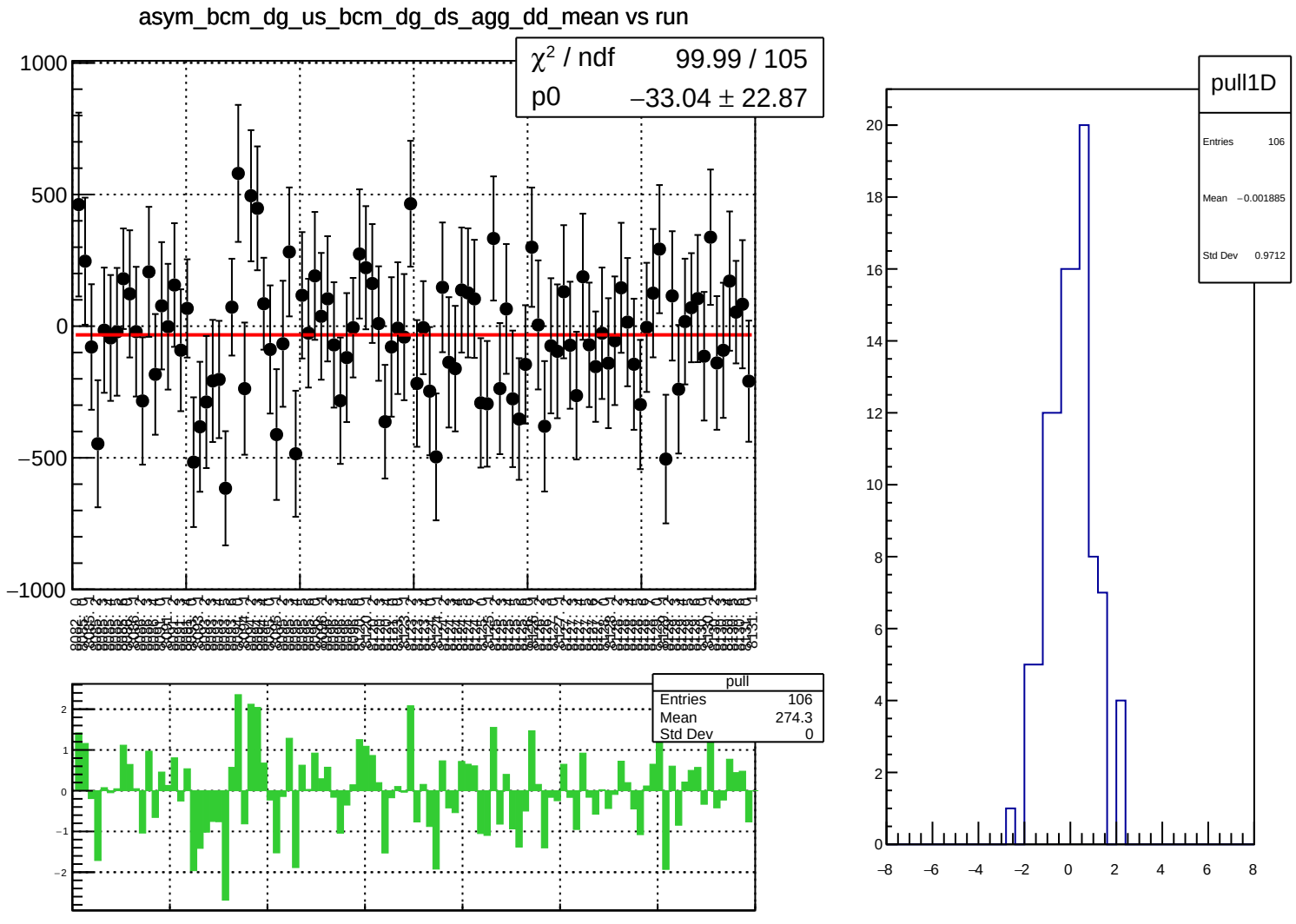

pull1D
Entries 106
Mean 0.01159
Std Dev 1.01
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

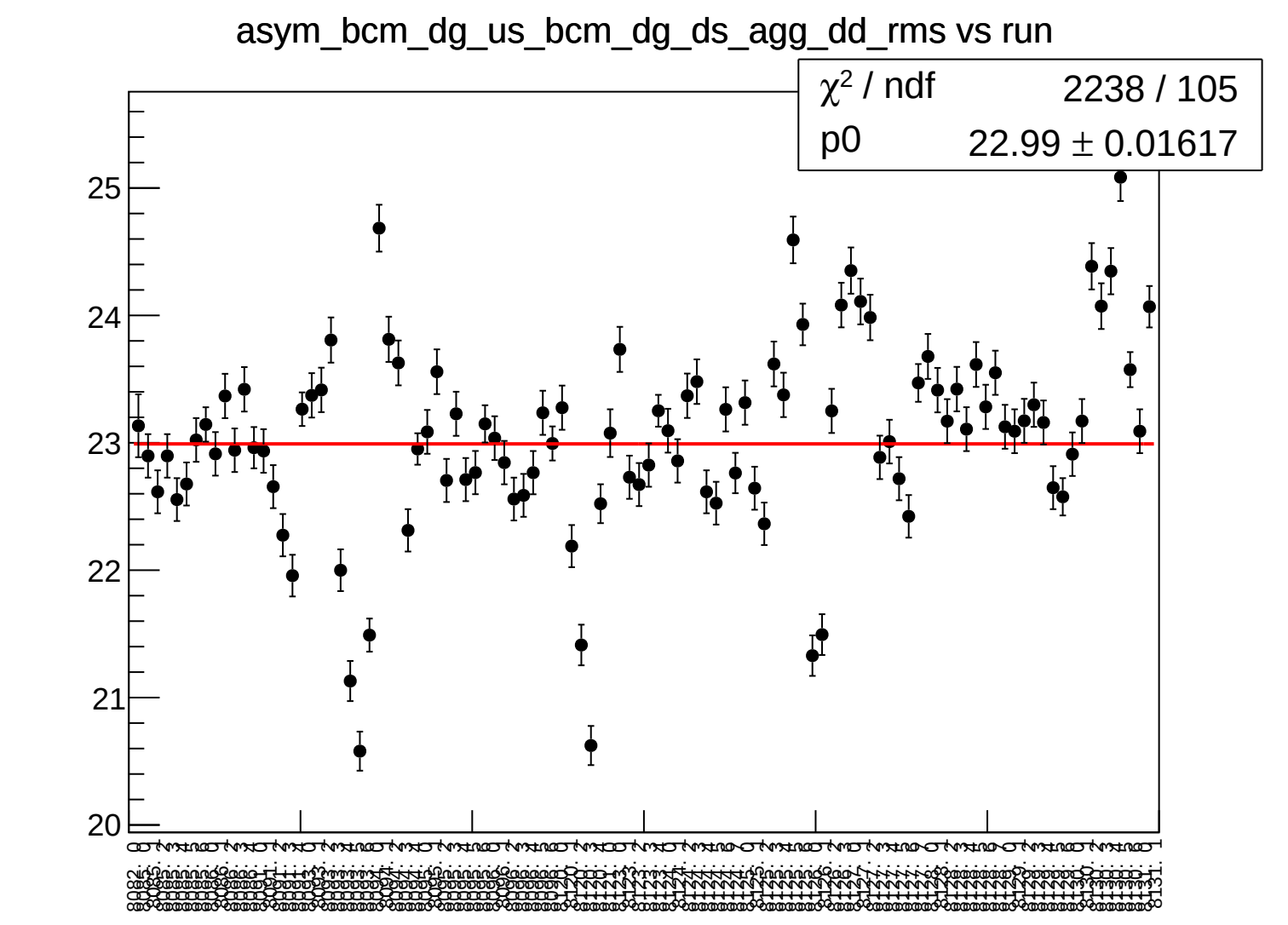

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2752 / 105
p0 16.12 ± 0.01134
19
18.5
18
17.5
17
16.5
16
15.5
15

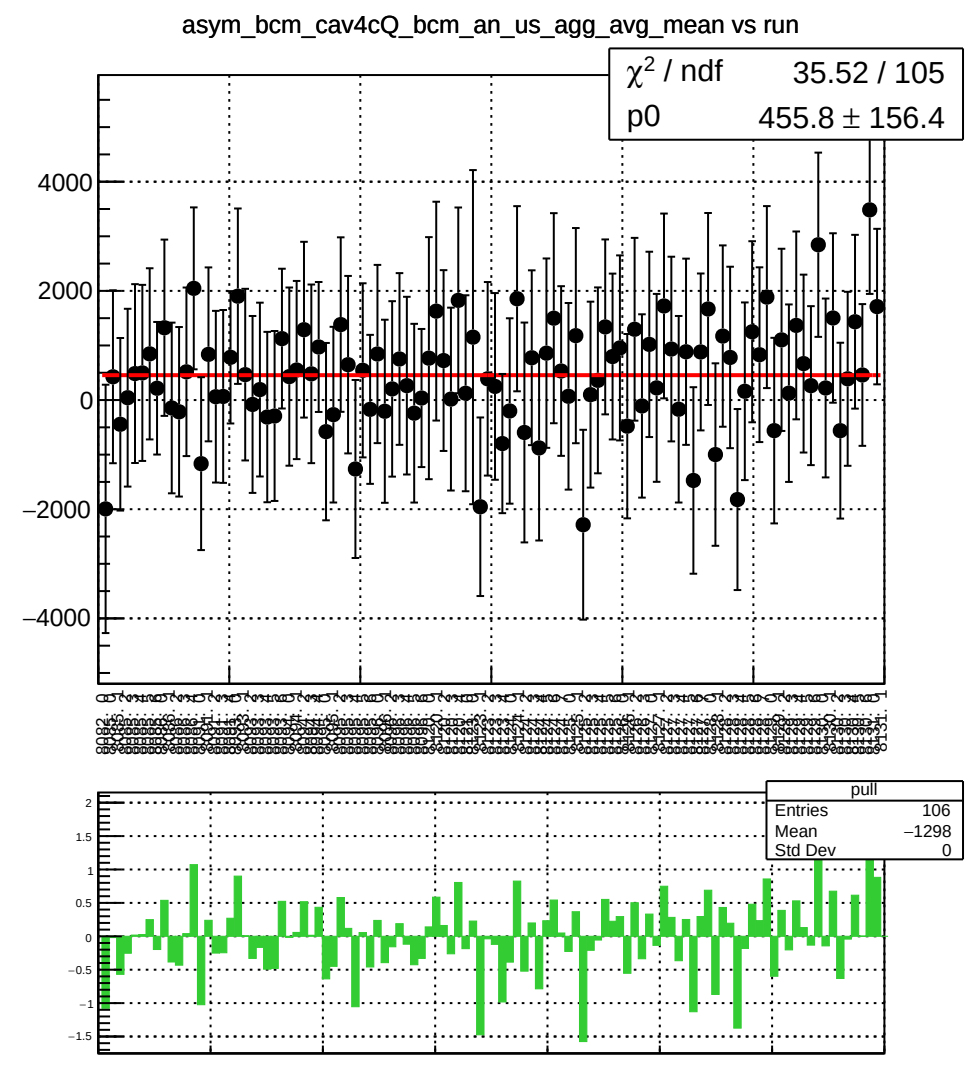

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 36.39 / 105
p0 389.6 ± 151.8
4000
2000
0
−2000
−4000
pull
Entries 106
Mean −761.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

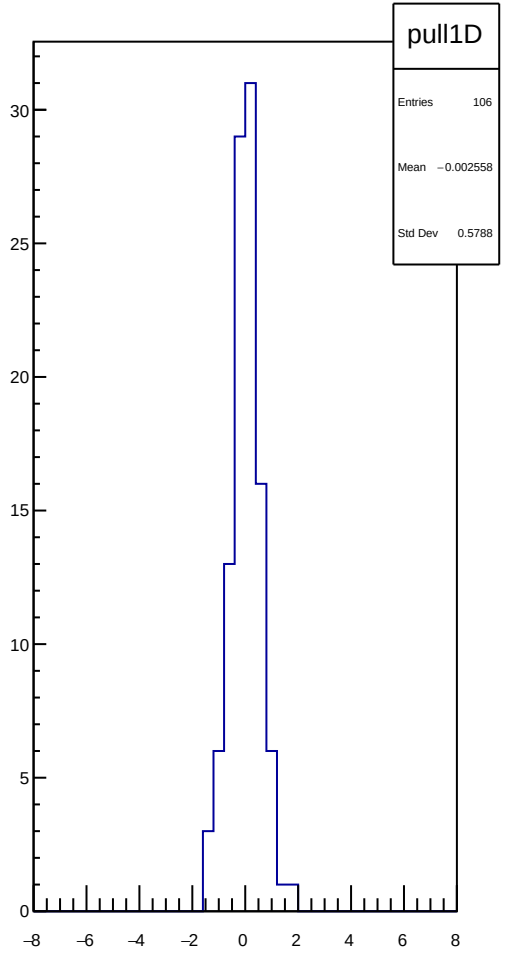

pull1D
Entries 106
Mean −0.003383
Std Dev 0.5859
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

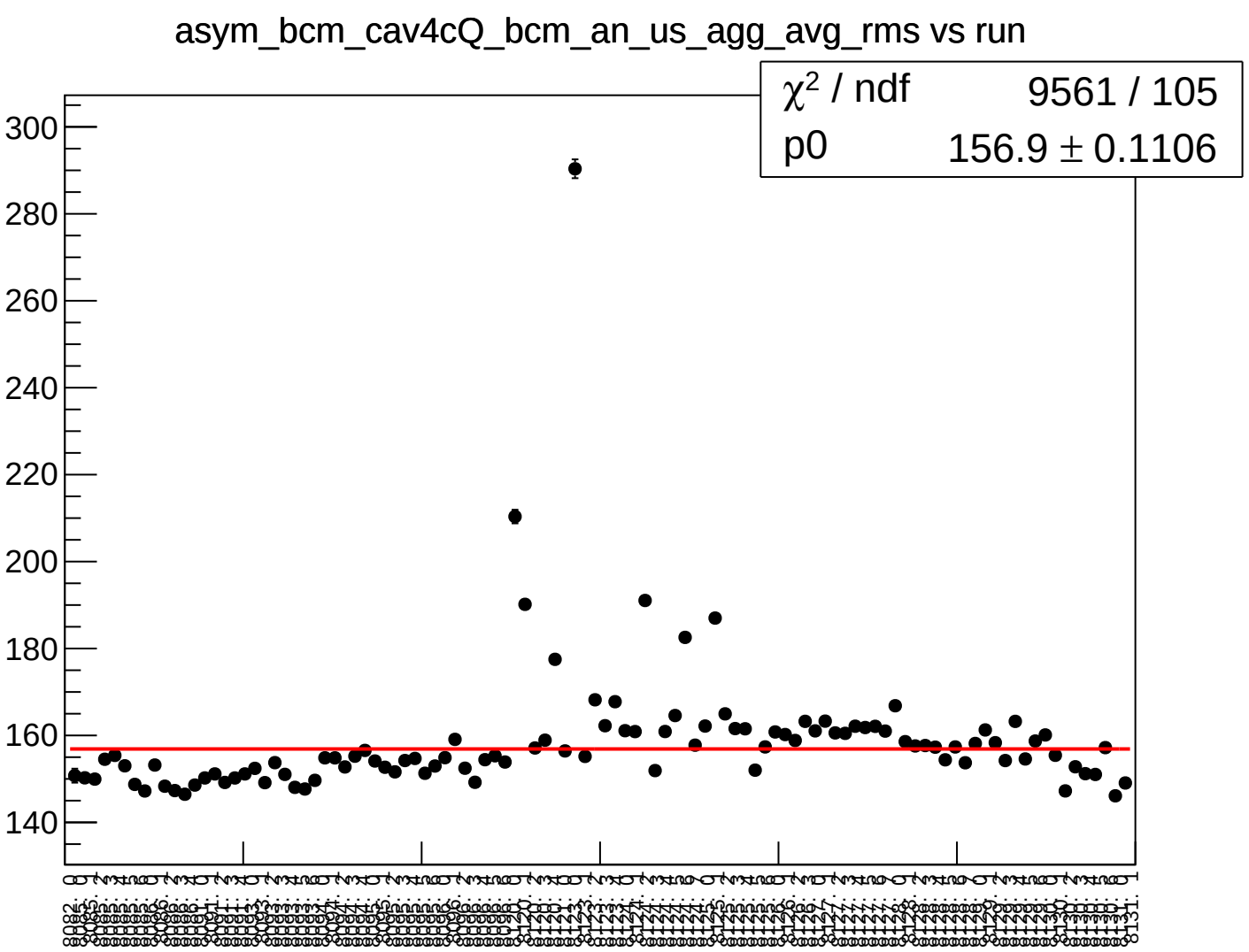

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 8427 / 105
p0 152.4 ± 0.1073
300
280
260
240
220
200
180
160
140

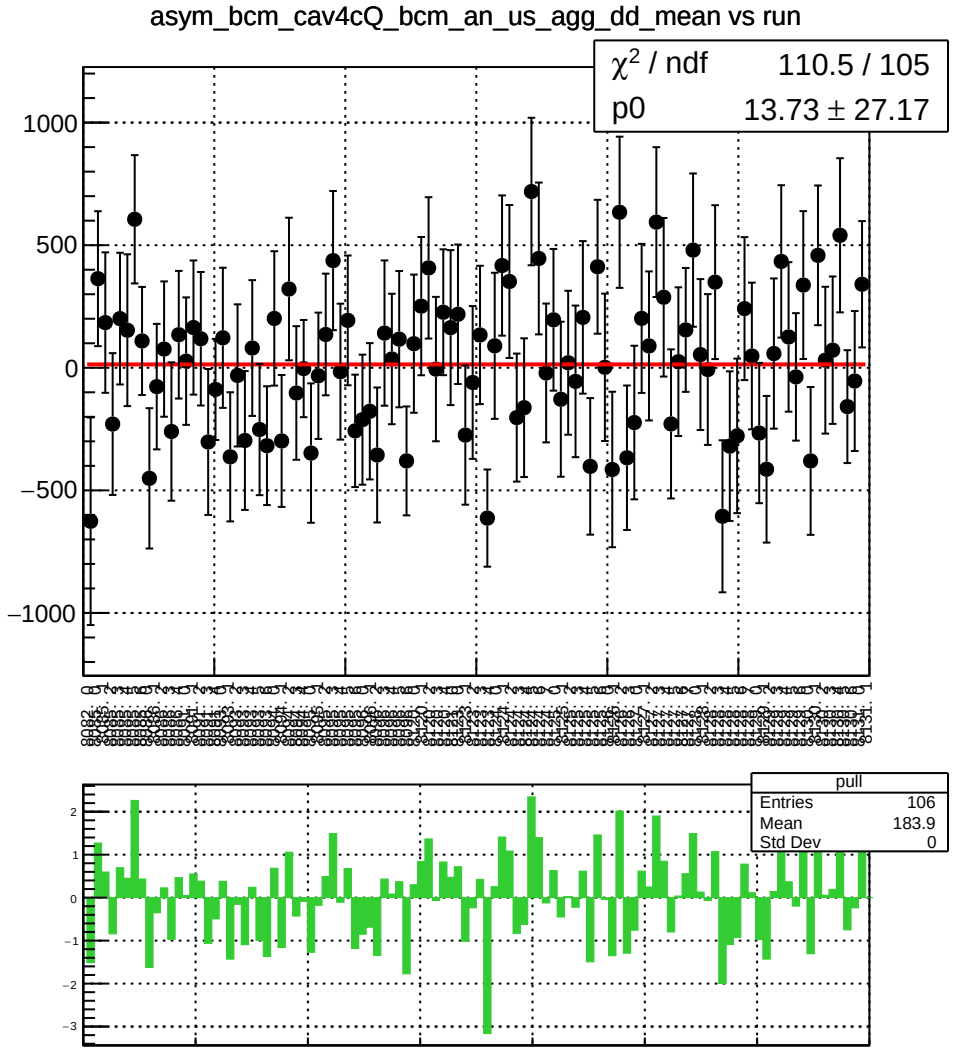

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 99.99 / 105
p0 −33.04 ± 22.87
1000
500
0
−500
−1000
pull
Entries 106
Mean 274.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 106
Mean −0.001885
Std Dev 0.9712
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

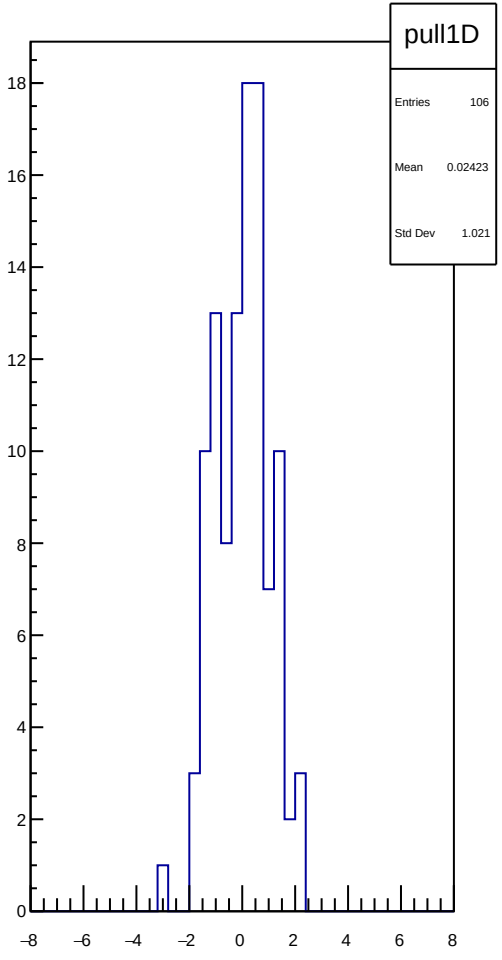

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2238 / 105
p0 22.99 ± 0.01617
25
24
23
22
21
20

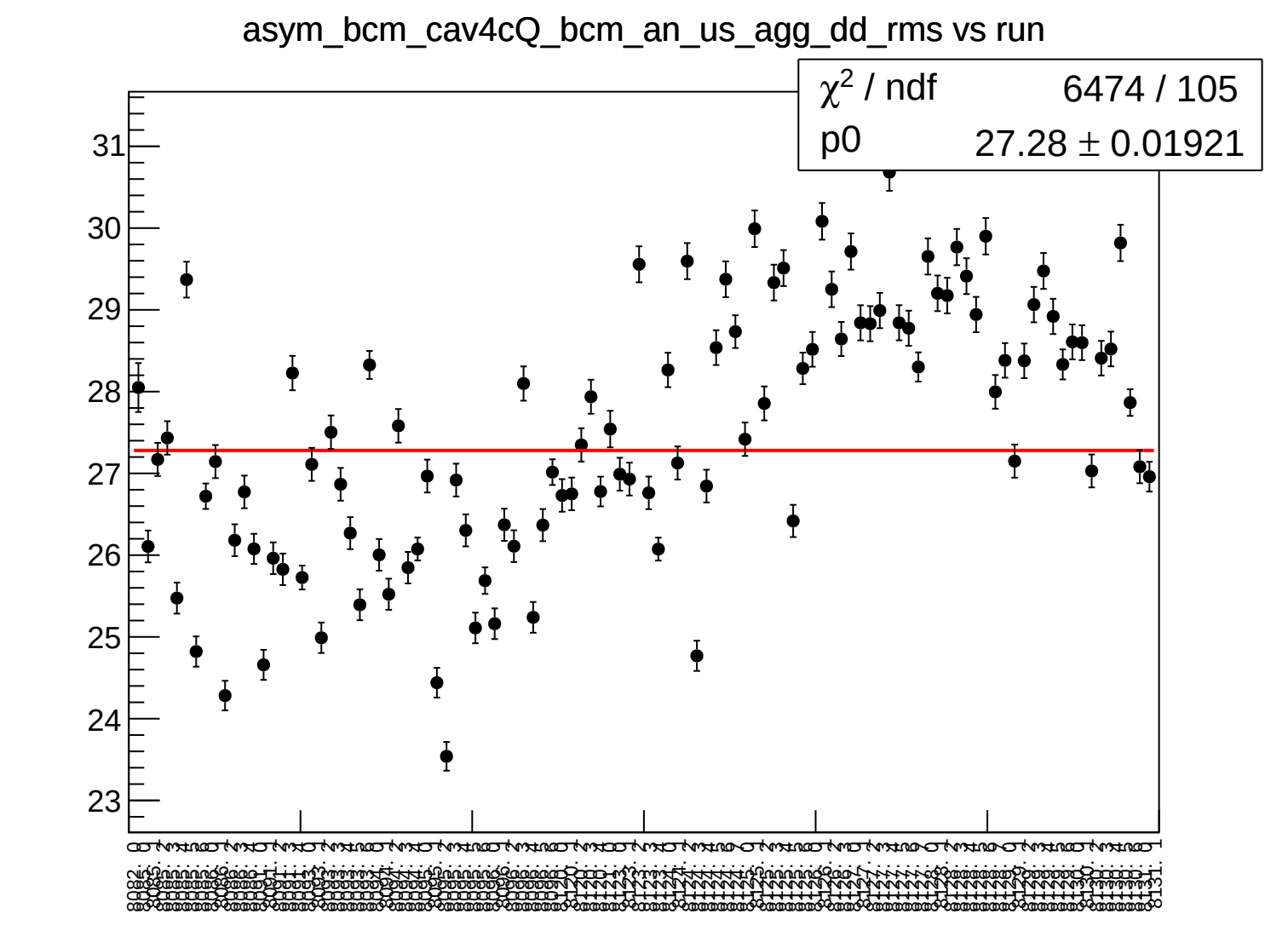

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 35.52 / 105
p0 455.8 ± 156.4
4000
2000
0
−2000
−4000
pull
Entries 106
Mean −1298
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

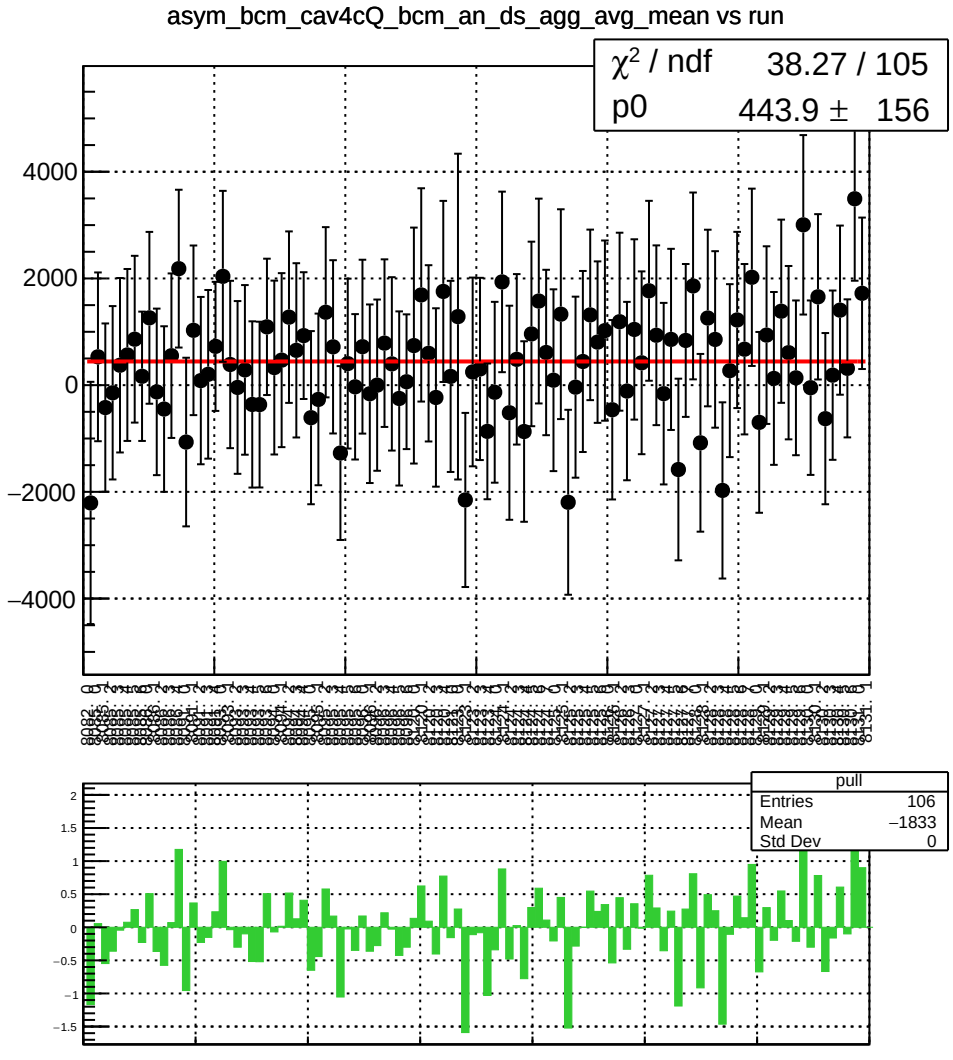

pull1D
Entries 106
Mean −0.002558
Std Dev 0.5788
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

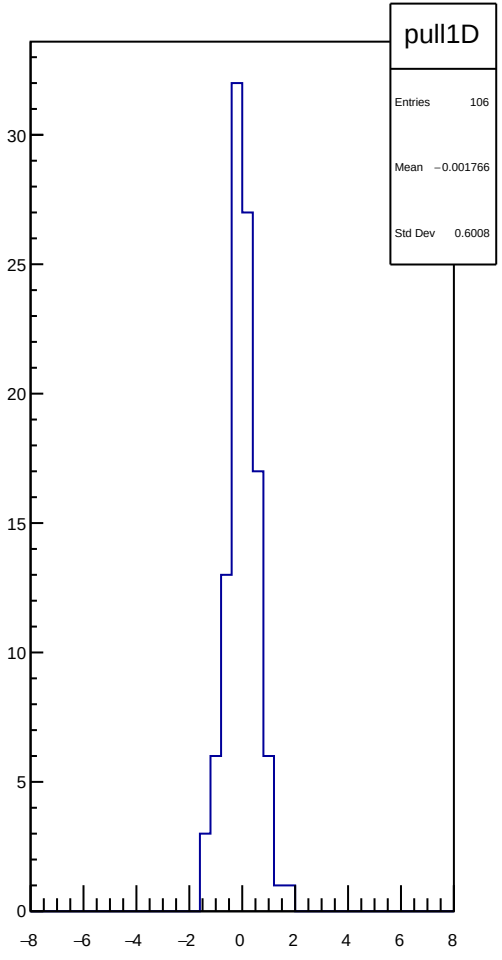

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 9561 / 105
p0 156.9 ± 0.1106
300
280
260
240
220
200
180
160
140

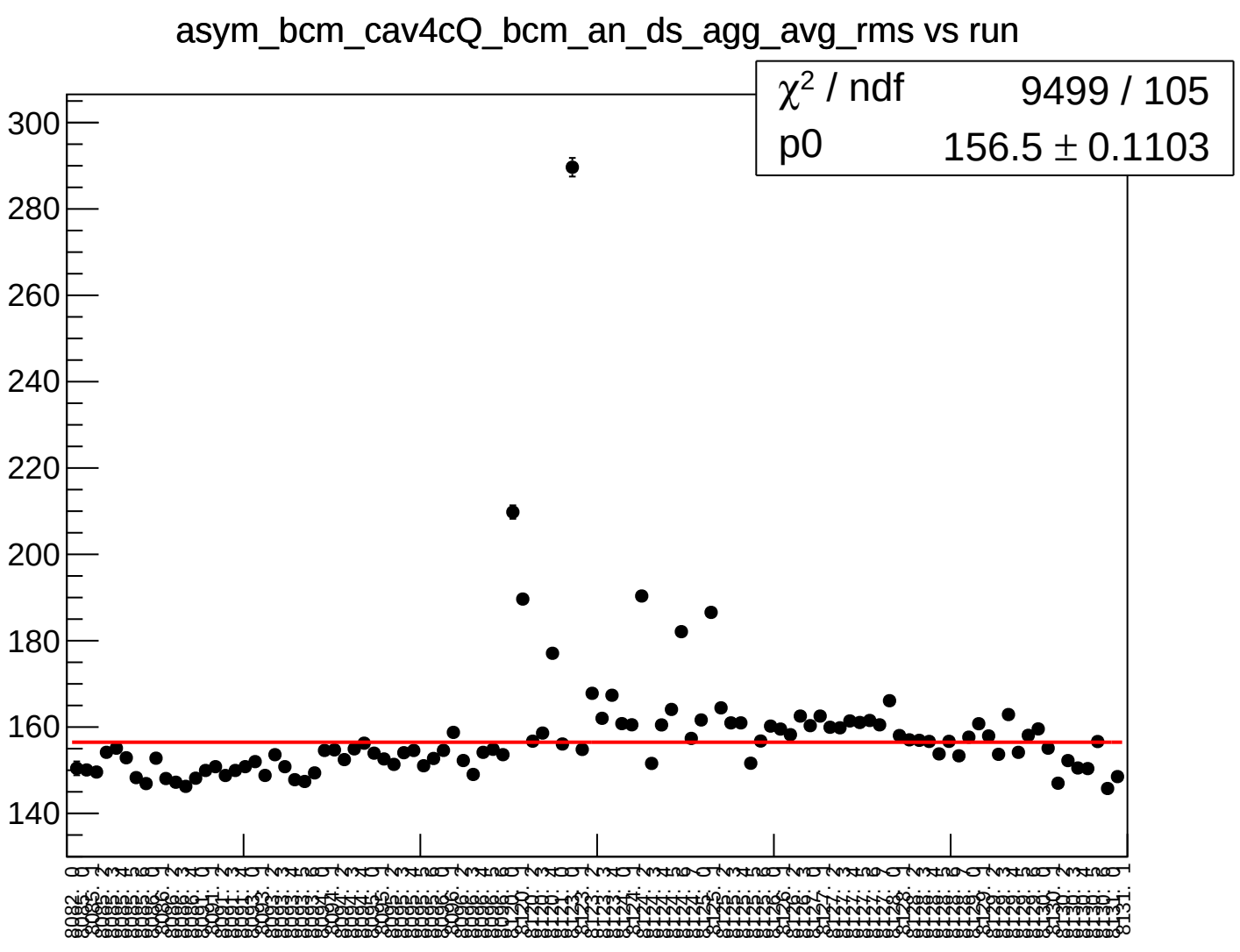

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 110.5 / 105
p0 13.73 ± 27.17
1000
500
0
−500
−1000
pull
Entries 106
Mean 183.9
Std Dev 0
2
1
0
−1
−2
−3

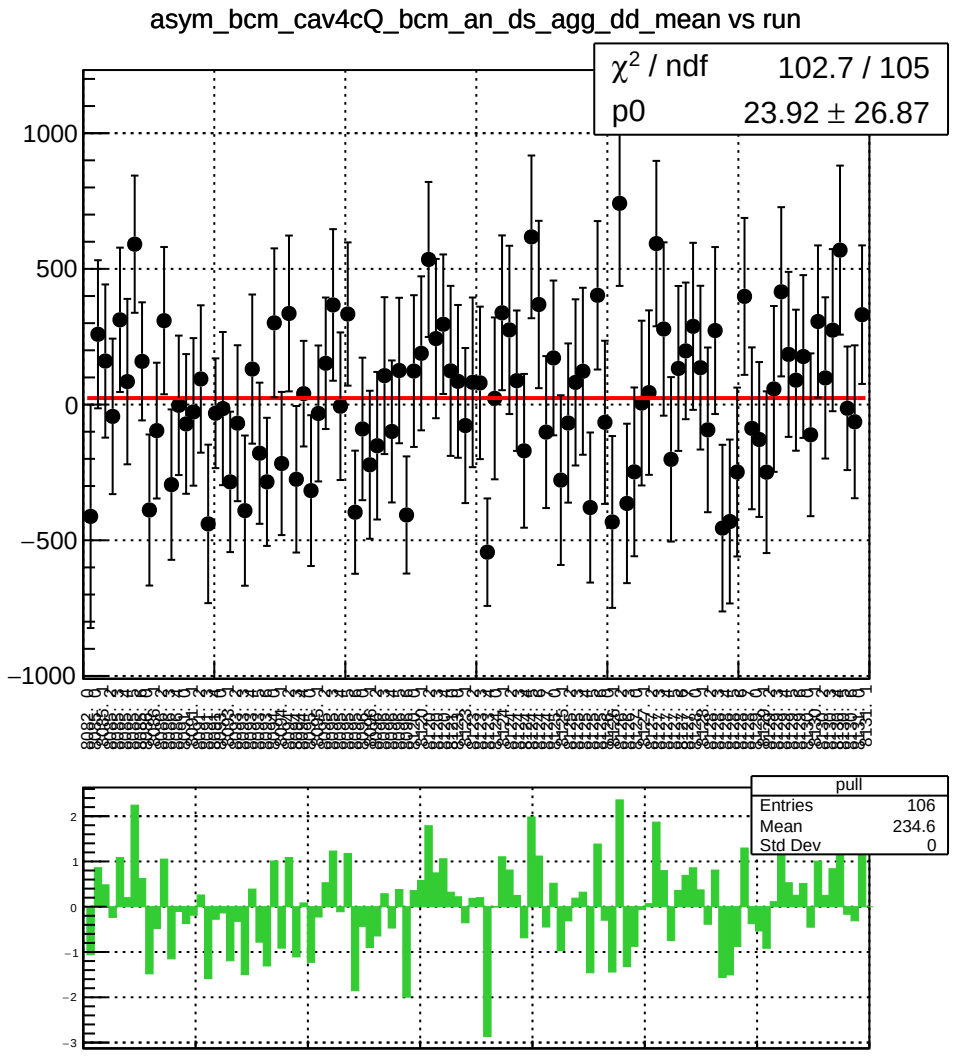

pull1D
Entries 106
Mean 0.02423
Std Dev 1.021
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

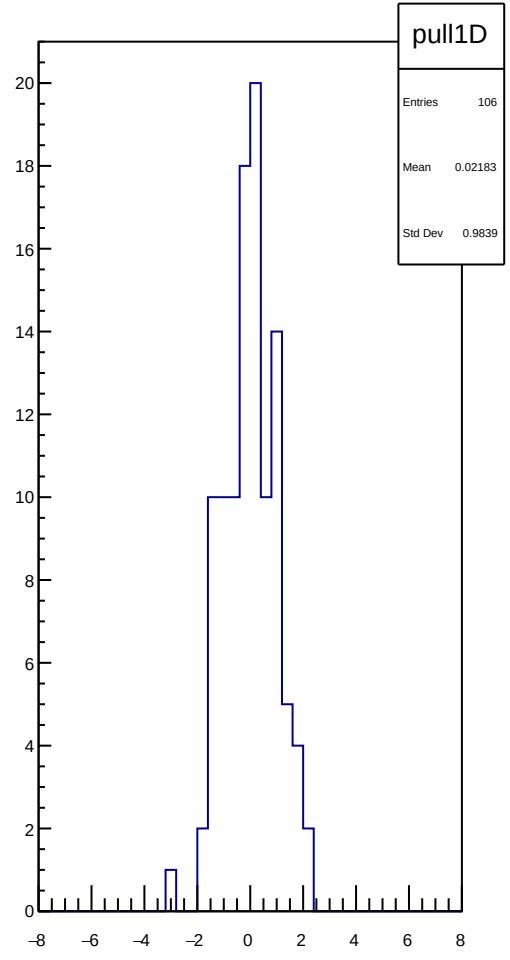

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 6474 / 105
p0 27.28 ± 0.01921
31
30
29
28
27
26
25
24
23

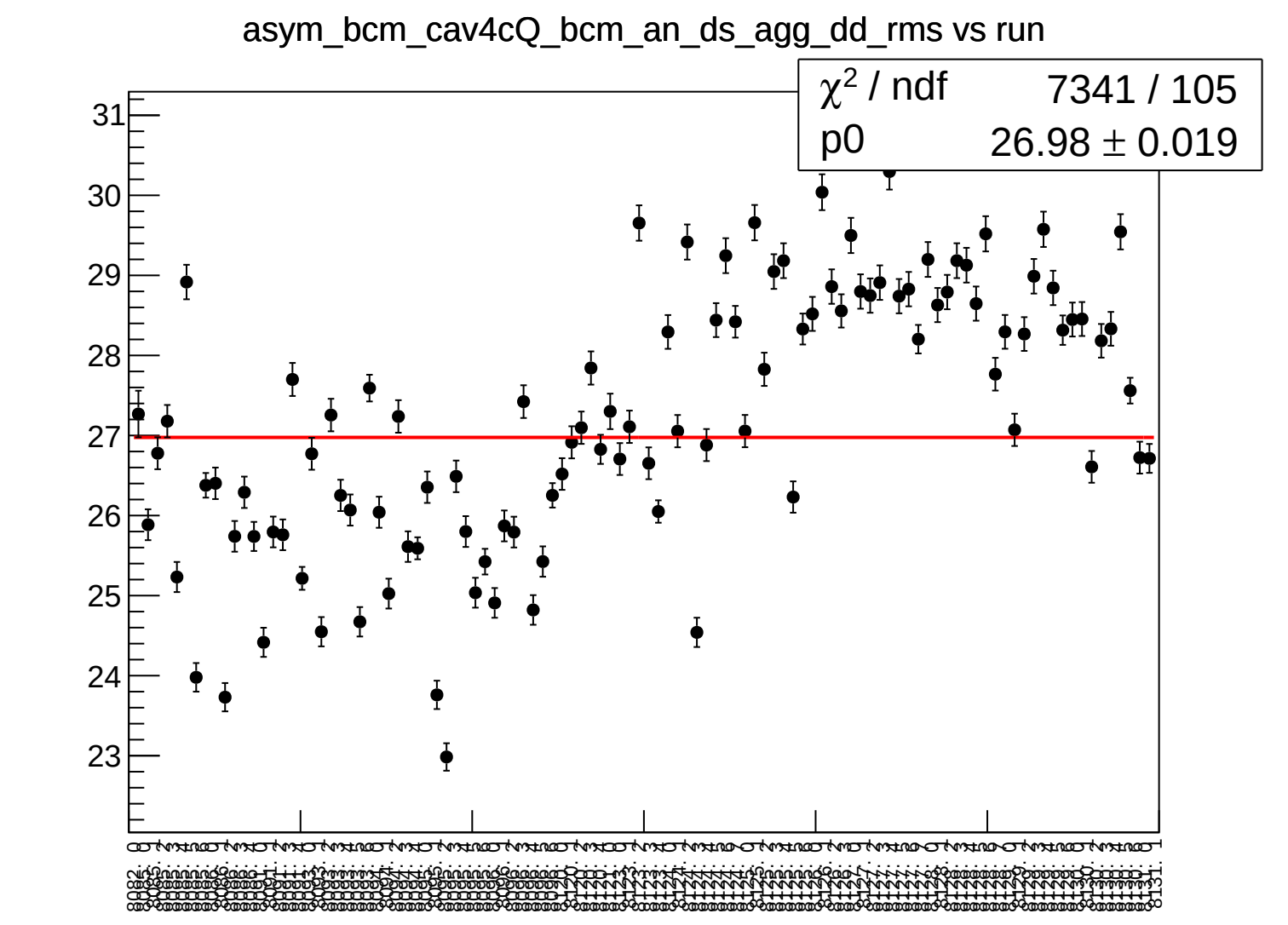

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 38.27 / 105
p0 443.9 ± 156
4000
2000
0
−2000
−4000
pull
Entries 106
Mean −1833
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

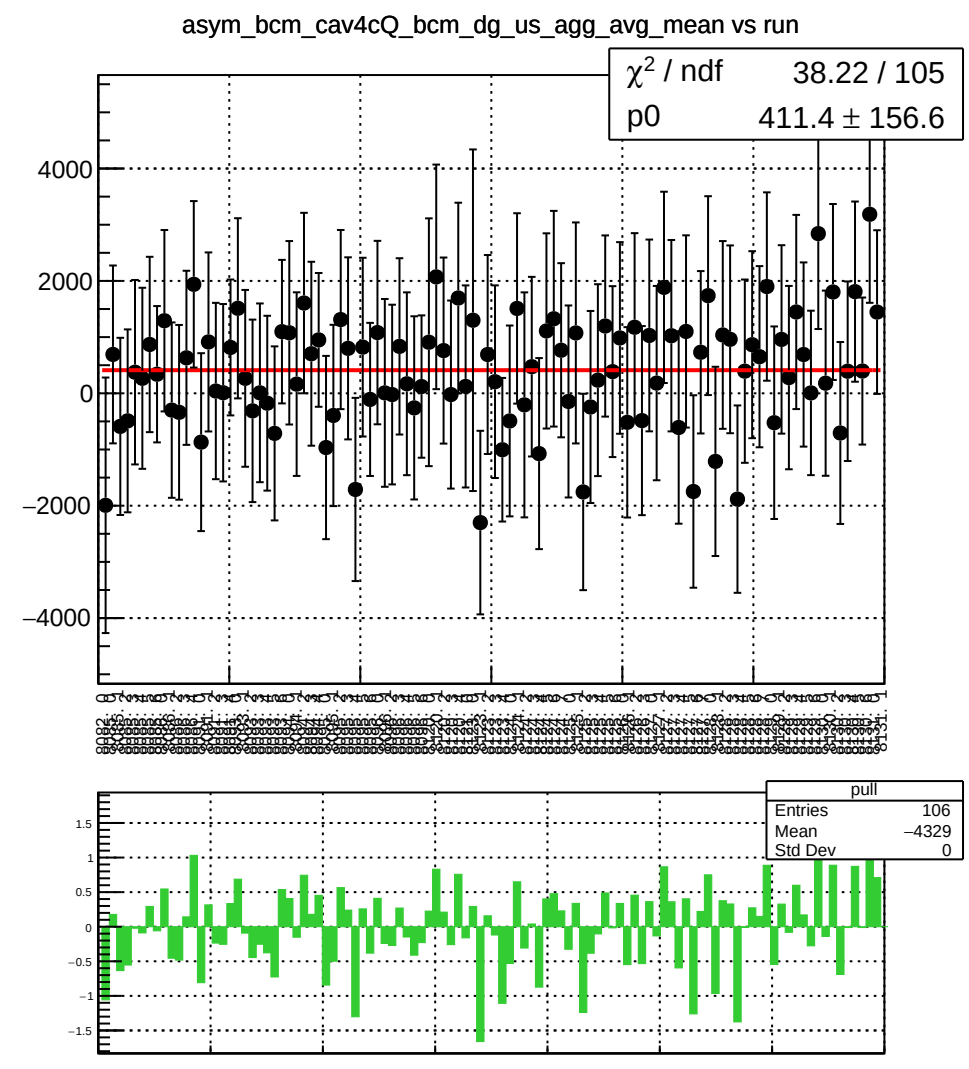

pull1D
Entries 106
Mean −0.001766
Std Dev 0.6008
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

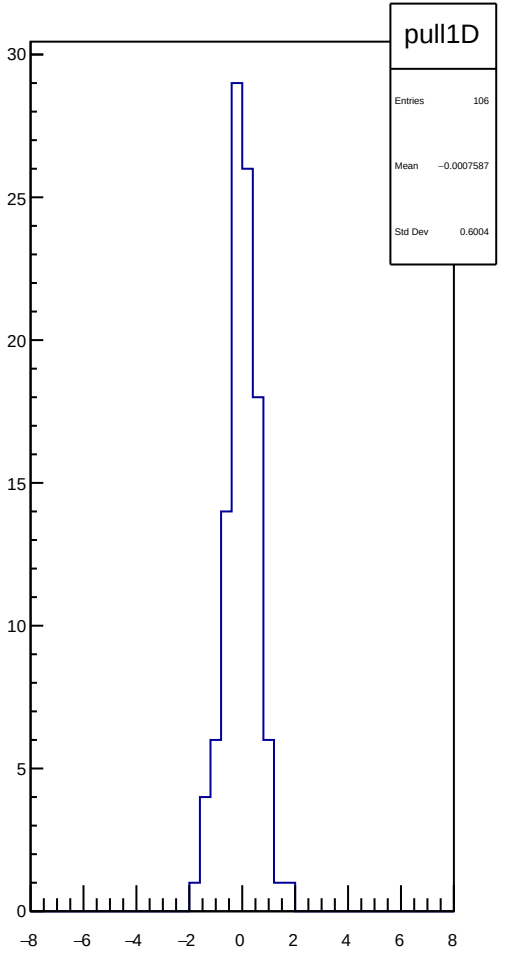

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 9499 / 105
p0 156.5 ± 0.1103
300
280
260
240
220
200
180
160
140

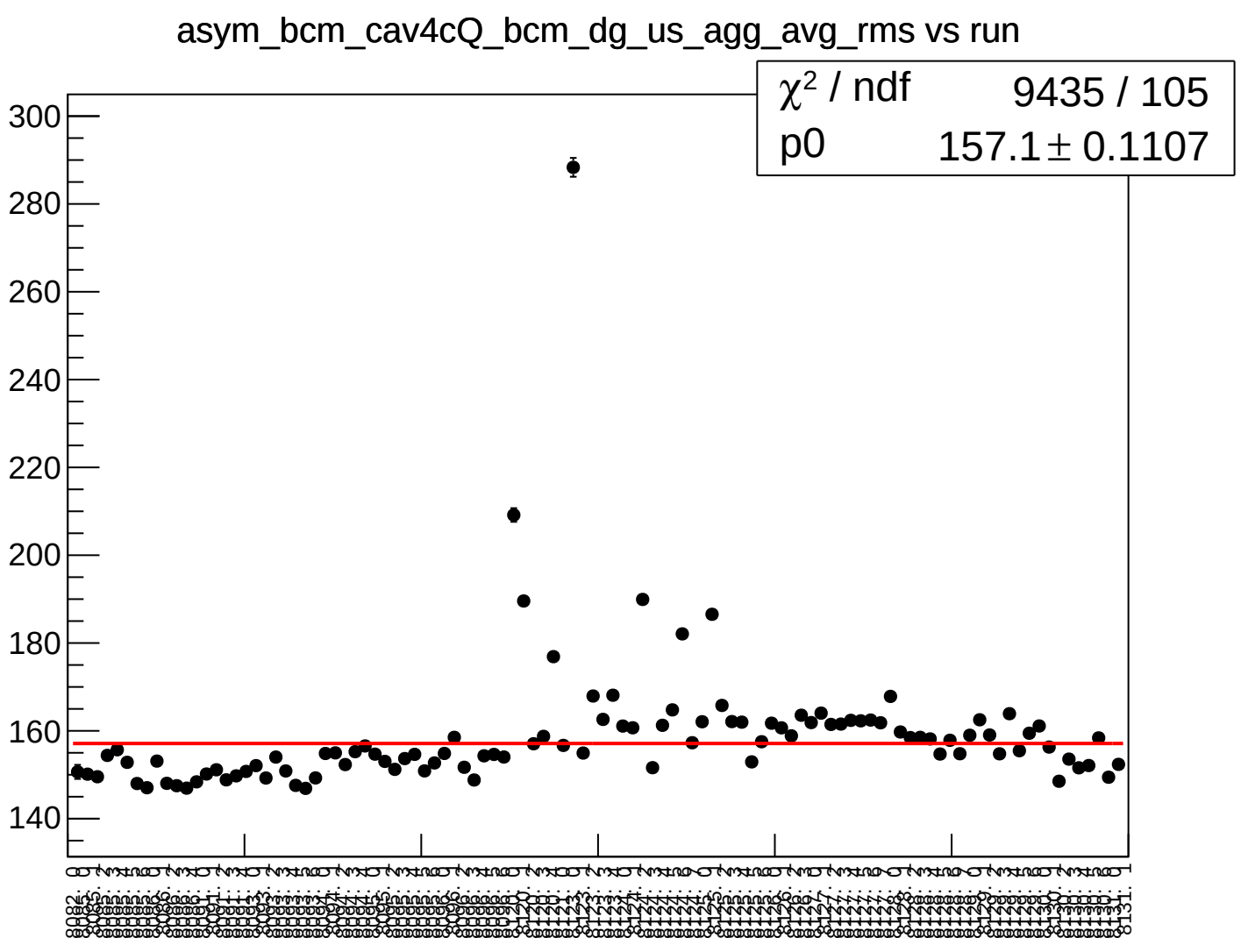

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 102.7 / 105
p0 23.92 ± 26.87
1000
500
0
−500
−1000
pull
Entries 106
Mean 234.6
Std Dev 0
2
1
0
−1
−2
−3

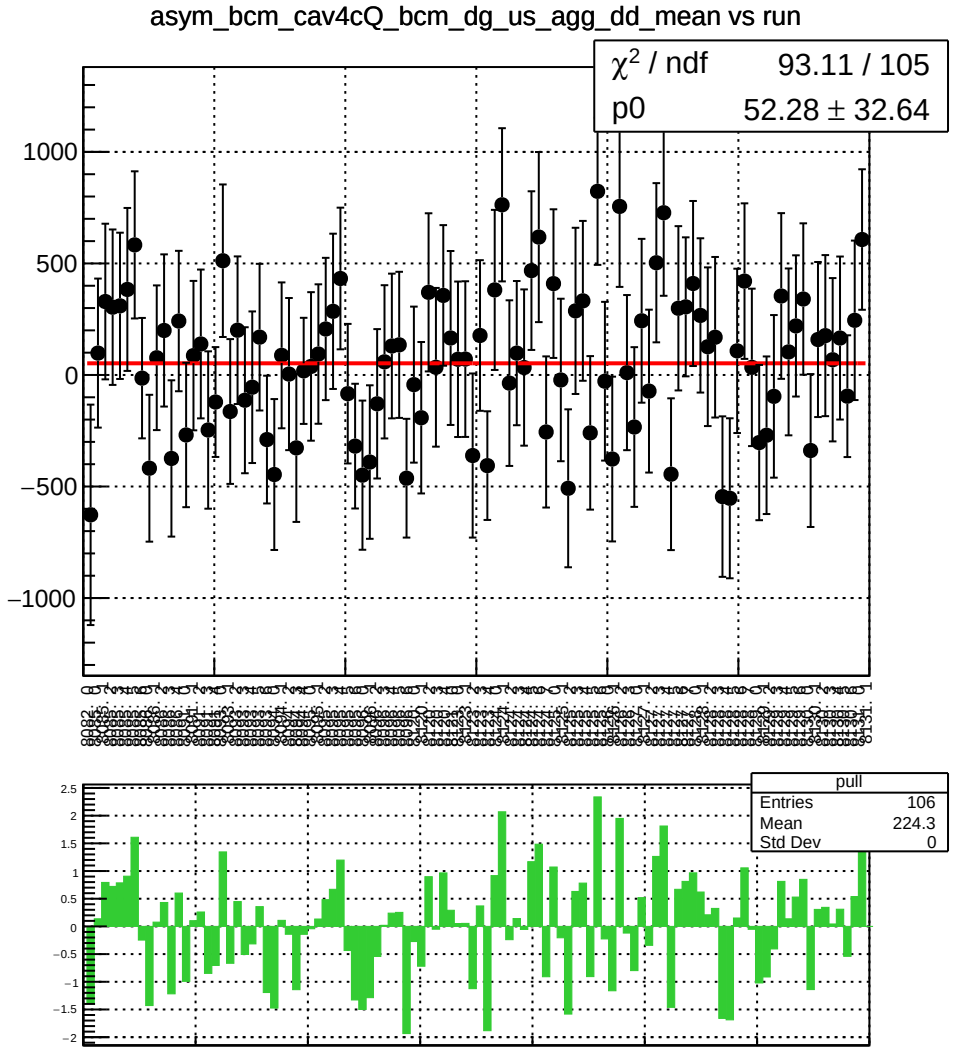

pull1D
Entries 106
Mean 0.02183
Std Dev 0.9839
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

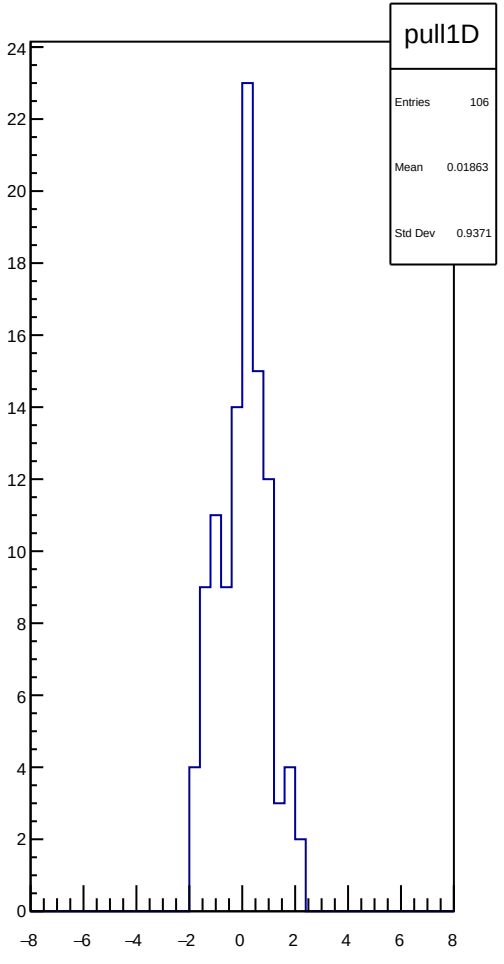

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 7341 / 105
p0 26.98 ± 0.019
31
30
29
28
27
26
25
24
23

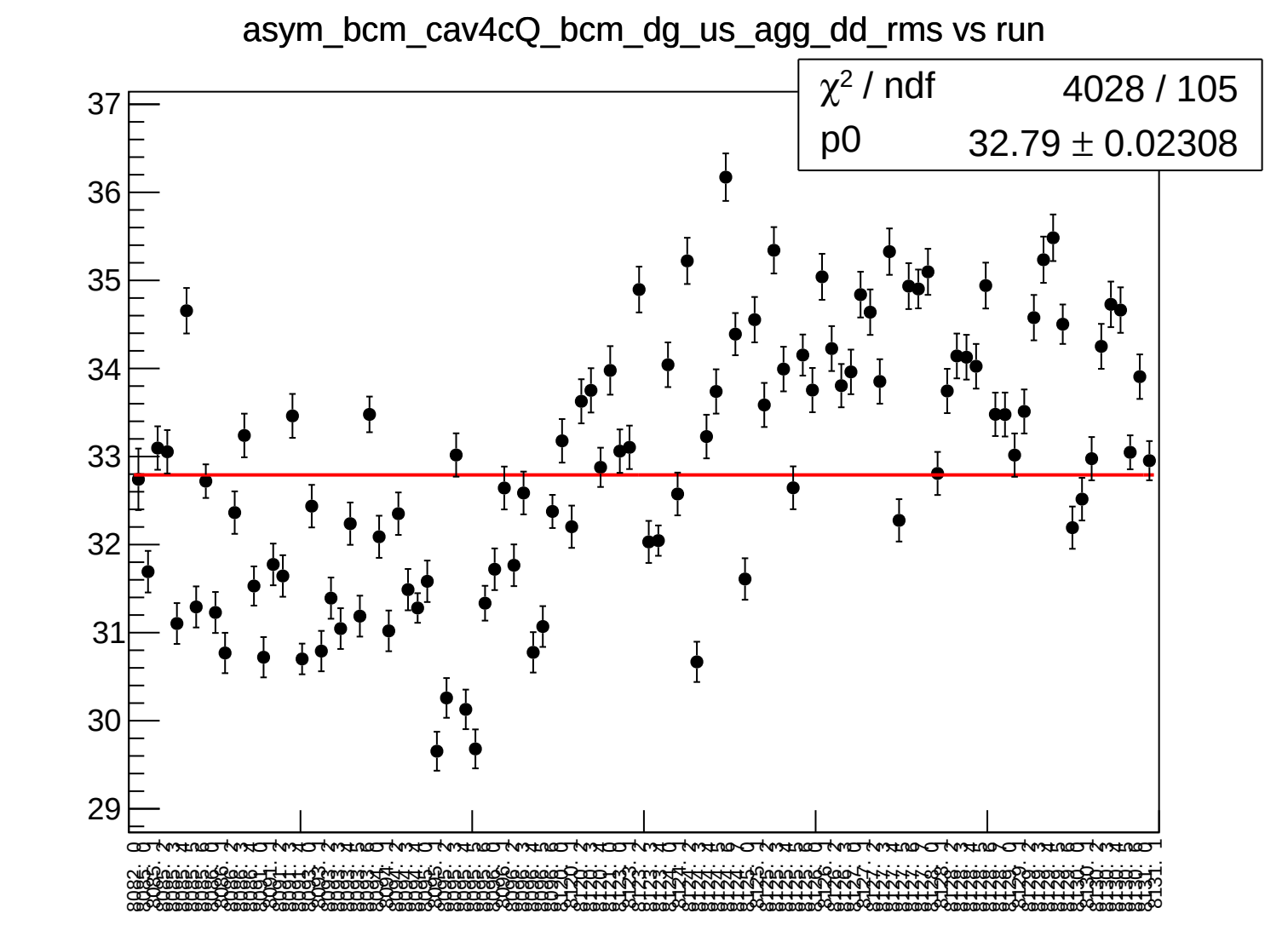

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 38.22 / 105
p0 411.4 ± 156.6
4000
2000
0
−2000
−4000
pull
Entries 106
Mean −4329
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

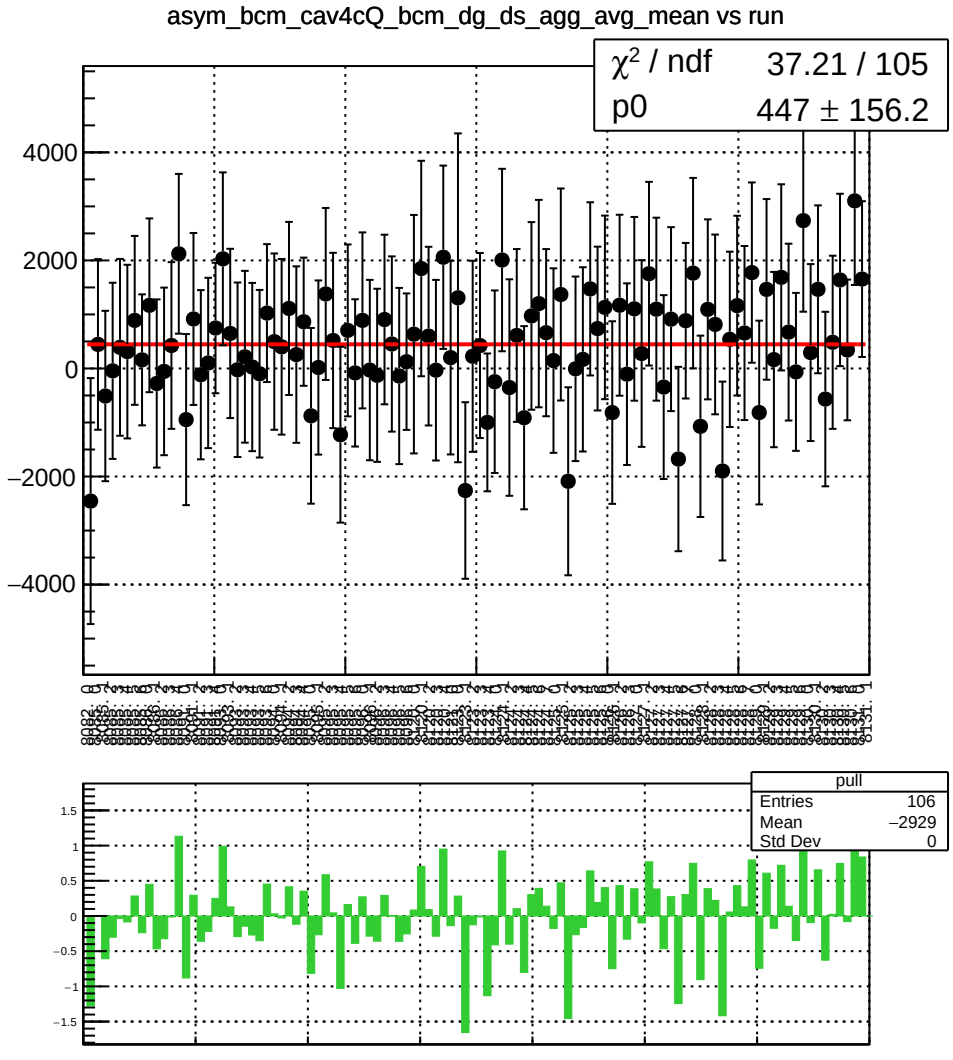

pull1D
Entries 106
Mean −0.0007587
Std Dev 0.6004
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

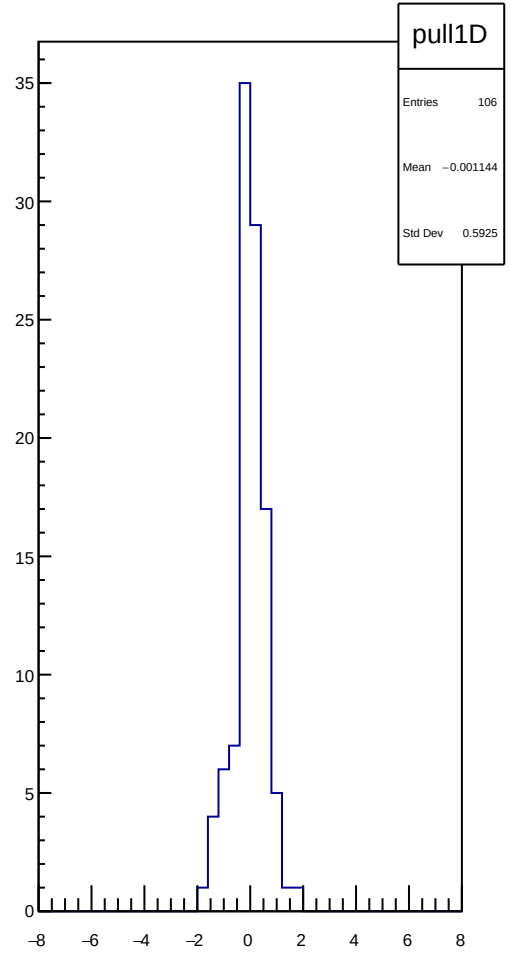

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 9435 / 105
p0 157.1 ± 0.1107
300
280
260
240
220
200
180
160
140

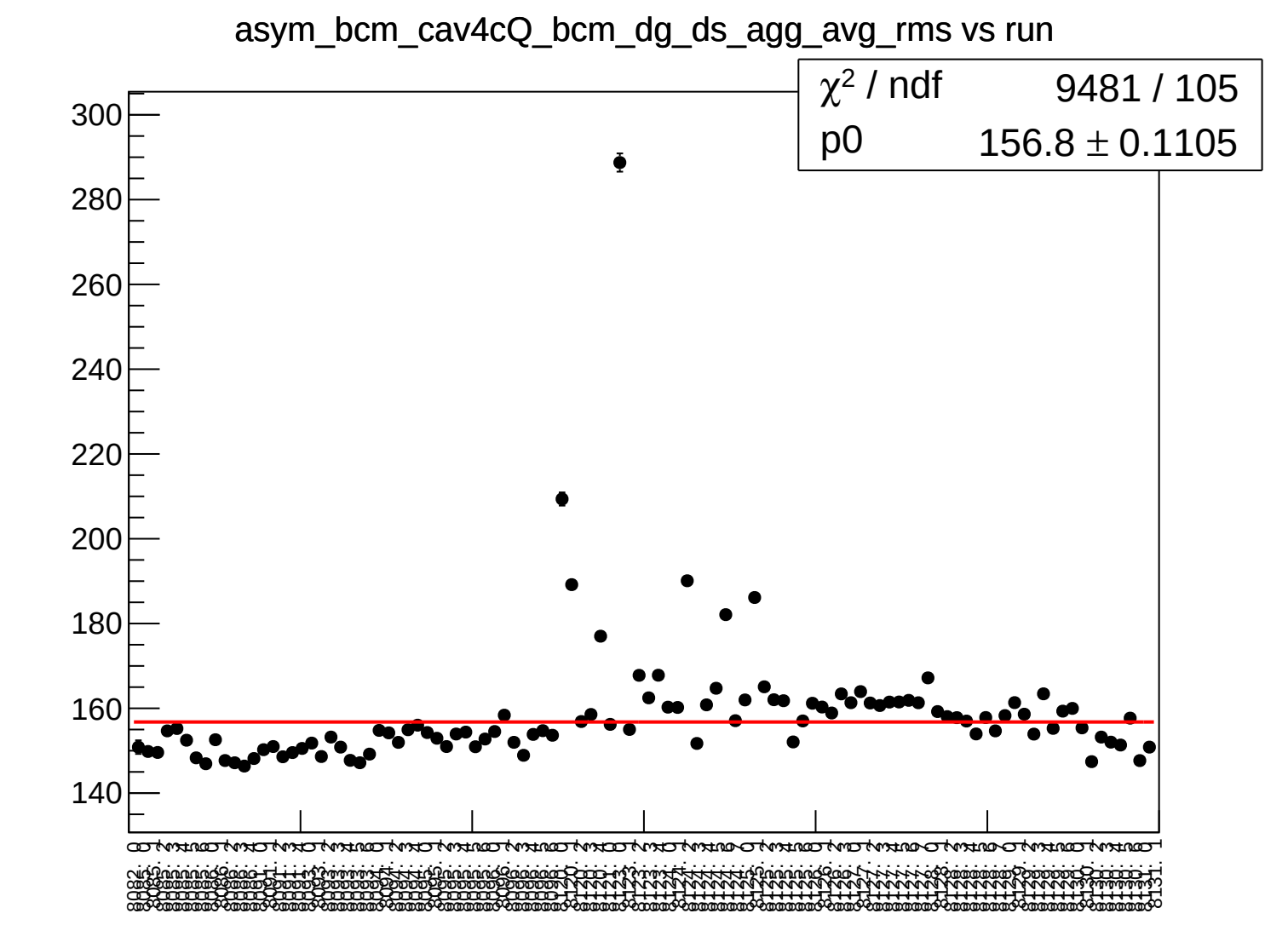

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 93.11 / 105
p0 52.28 ± 32.64
1000
500
0
−500
−1000
pull
Entries 106
Mean 224.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

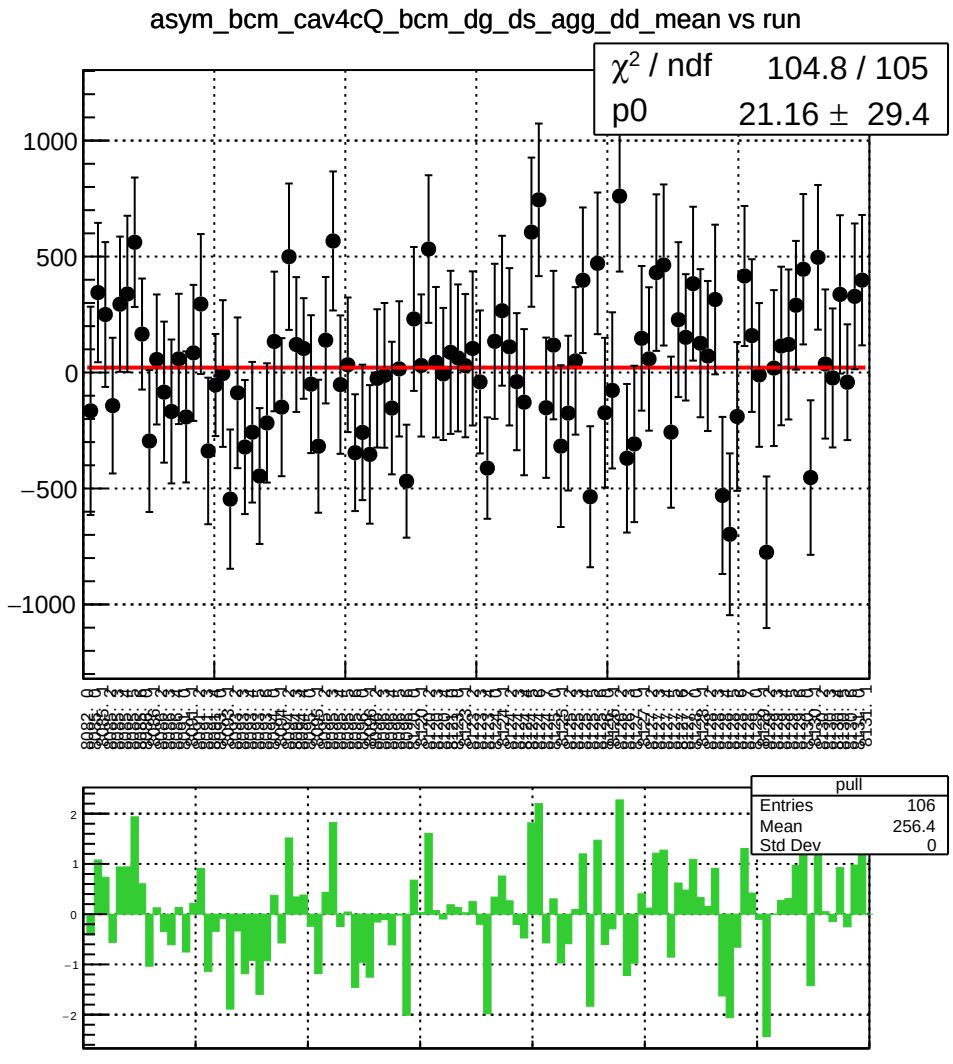

pull1D
Entries 106
Mean 0.01863
Std Dev 0.9371
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

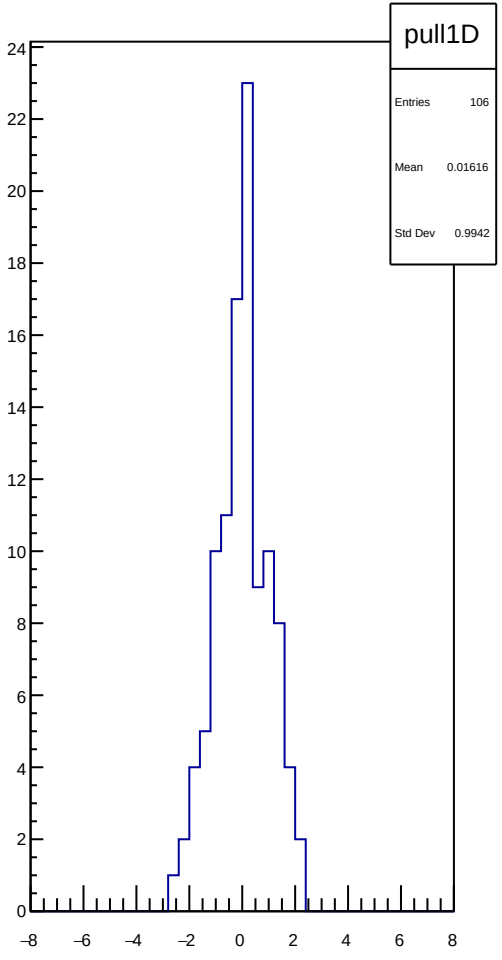

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 4028 / 105
p0 32.79 ± 0.02308
37
36
35
34
33
32
31
30
29

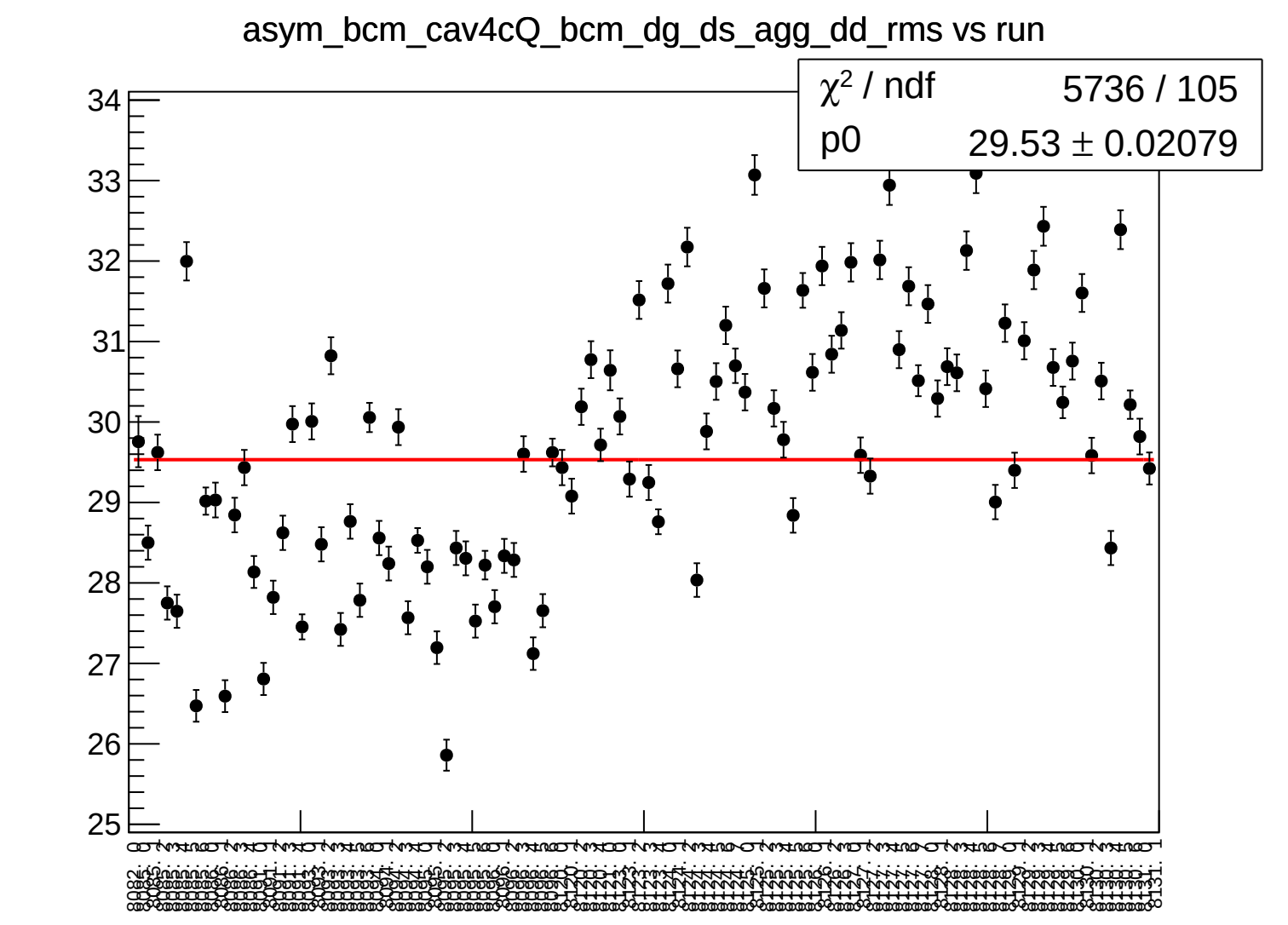

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 37.21 / 105
p0 447 ± 156.2
4000
2000
0
−2000
−4000
pull
Entries 106
Mean −2929
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

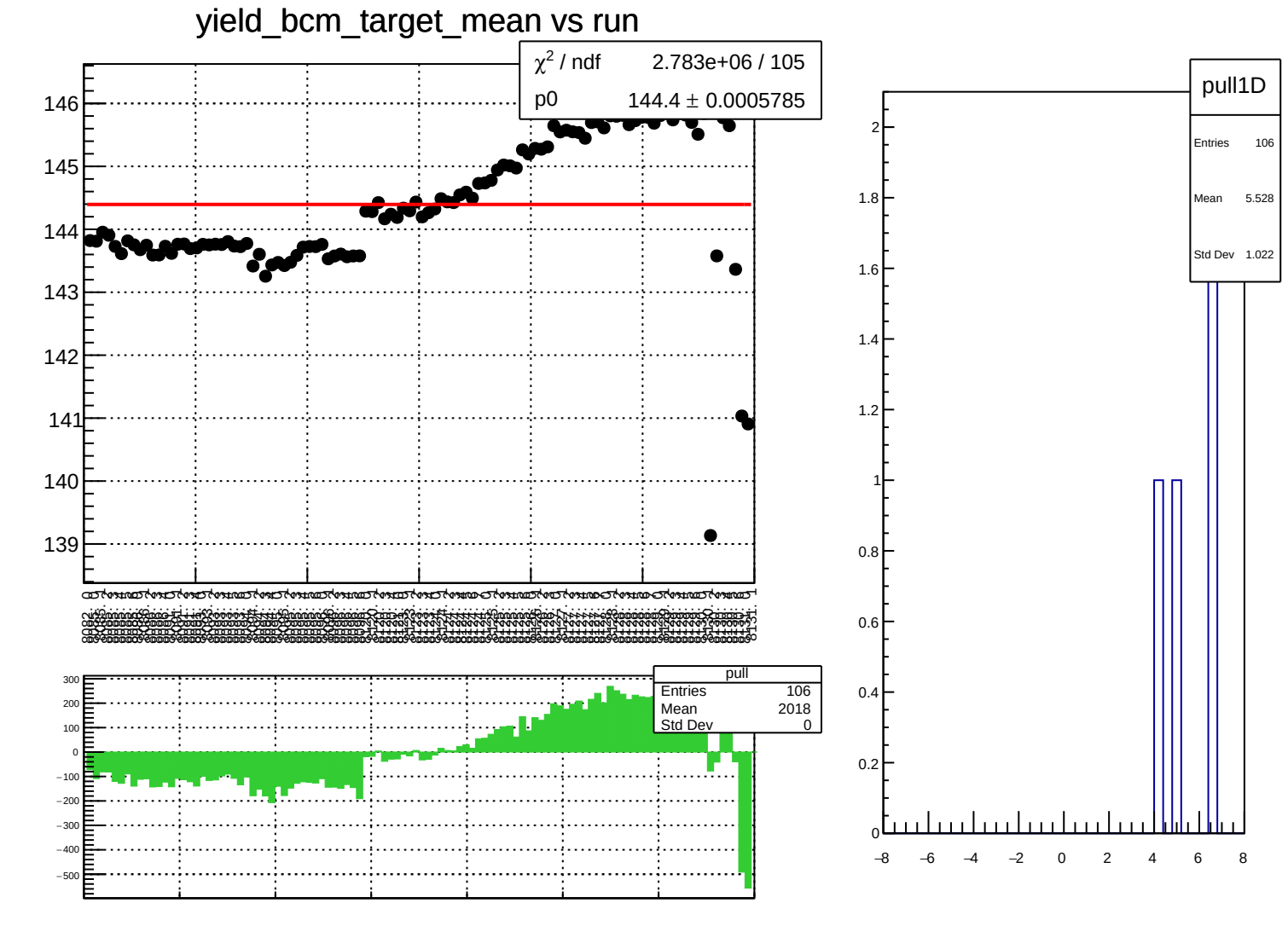

pull1D
Entries 106
Mean −0.001144
Std Dev 0.5925
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

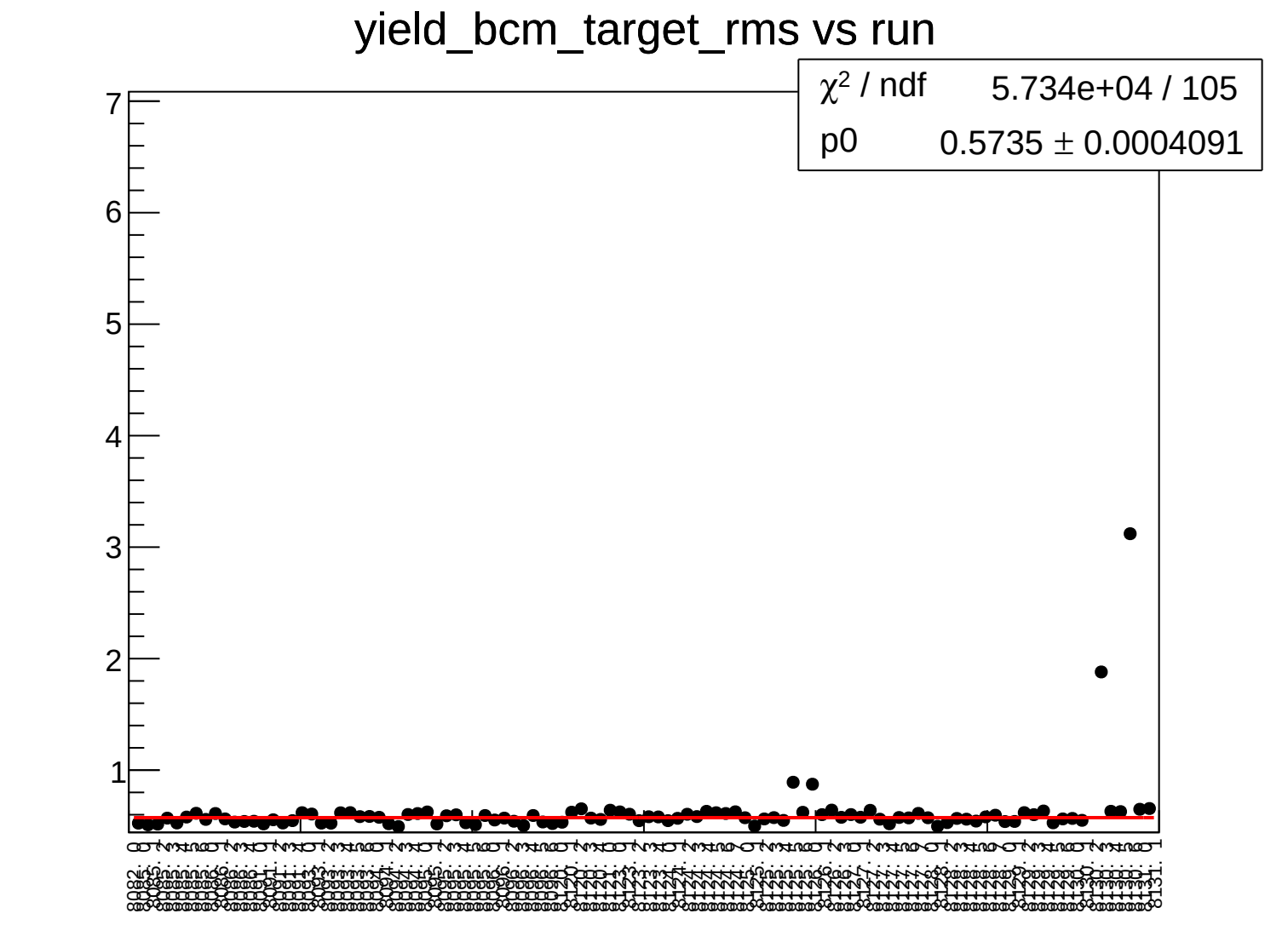

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 9481 / 105
p0 156.8 ± 0.1105
300
280
260
240
220
200
180
160
140

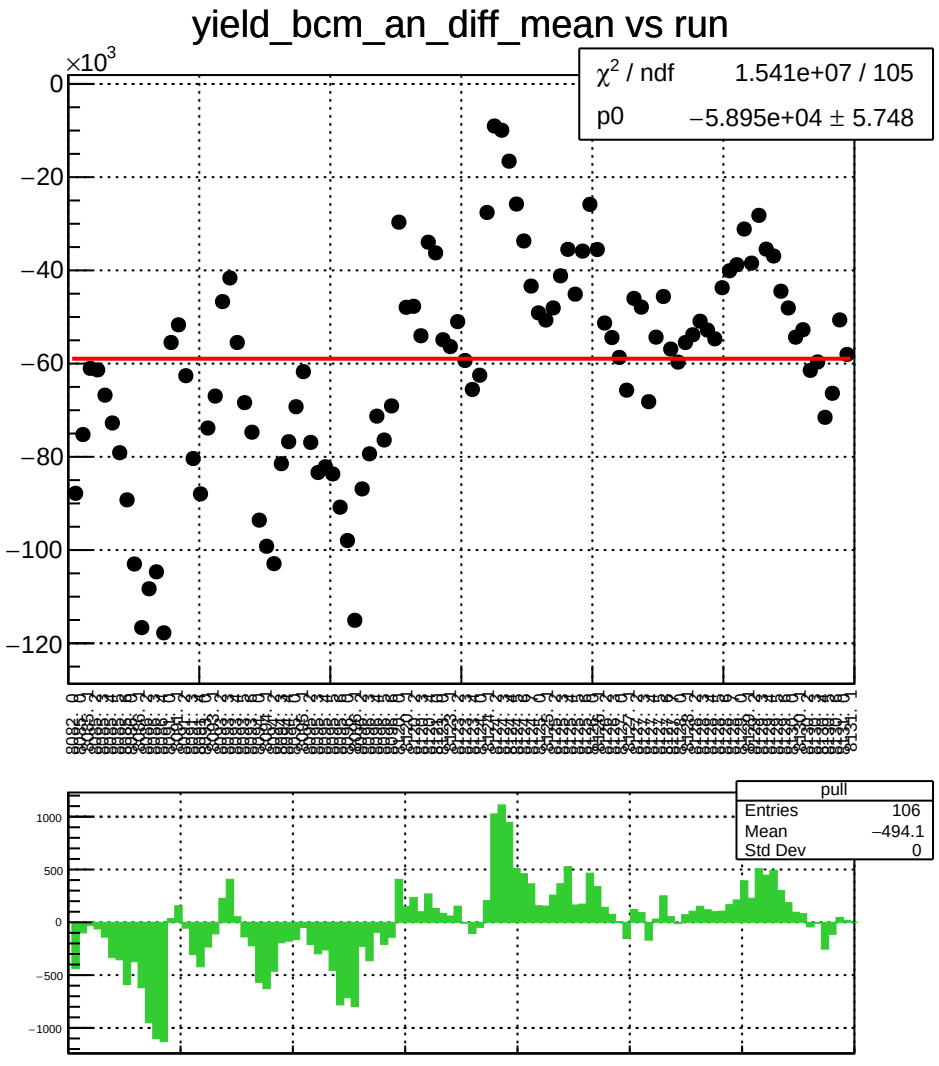

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 104.8 / 105
p0 21.16 ± 29.4
1000
500
0
−500
−1000
pull
Entries 106
Mean 256.4
Std Dev 0
2
1
0
−1
−2

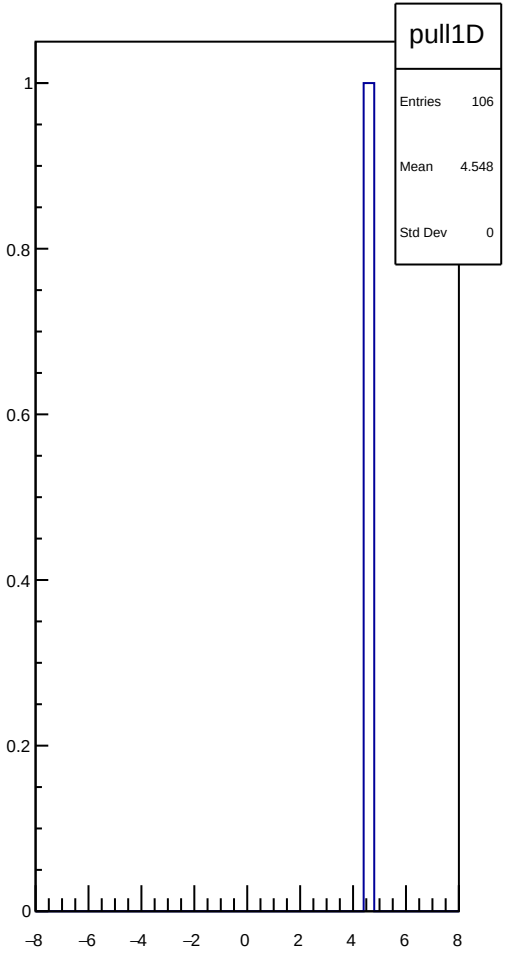

pull1D
Entries 106
Mean 0.01616
Std Dev 0.9942
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

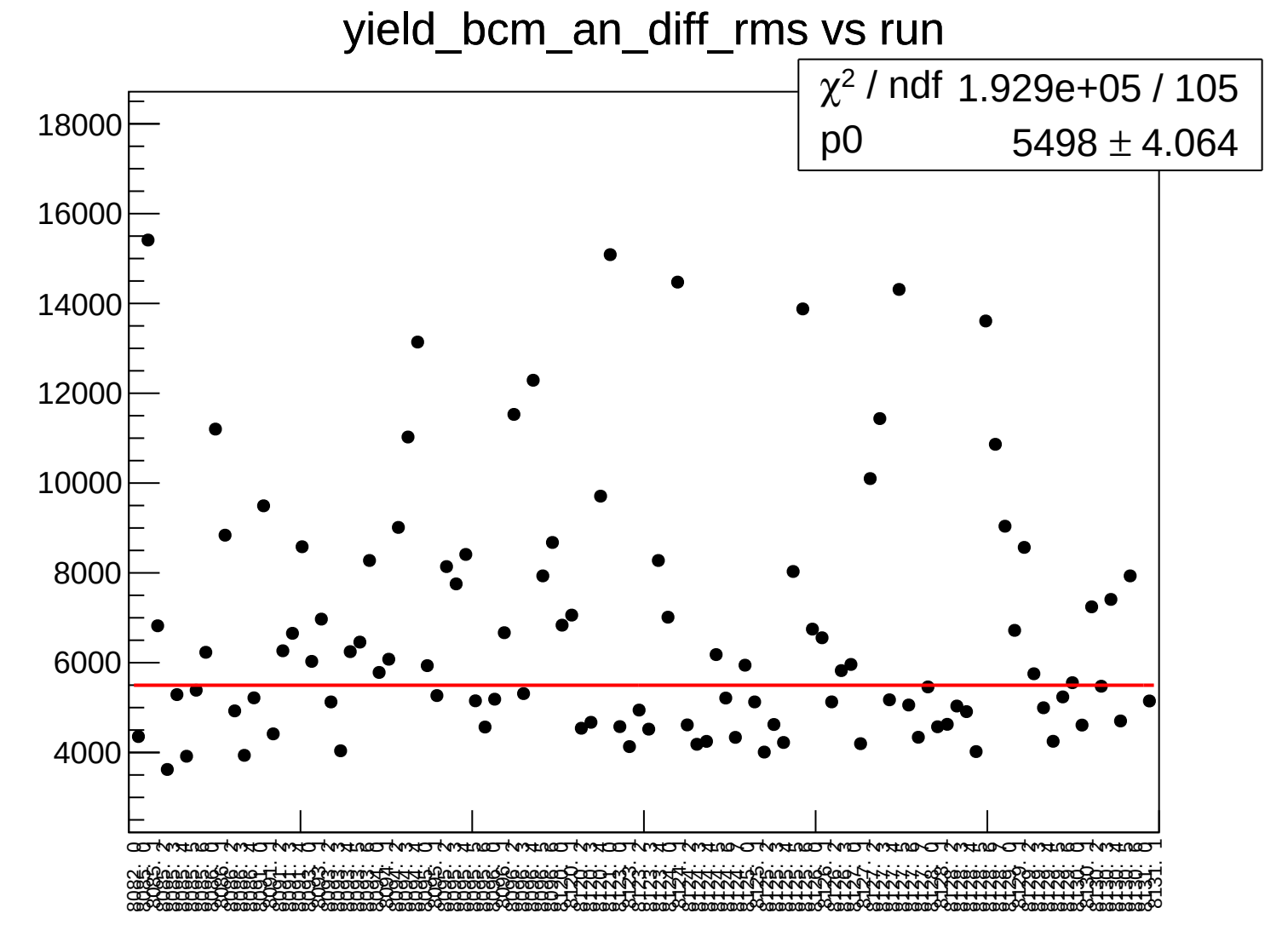

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 5736 / 105
p0 29.53 ± 0.02079
34
33
32
31
30
29
28
27
26
25

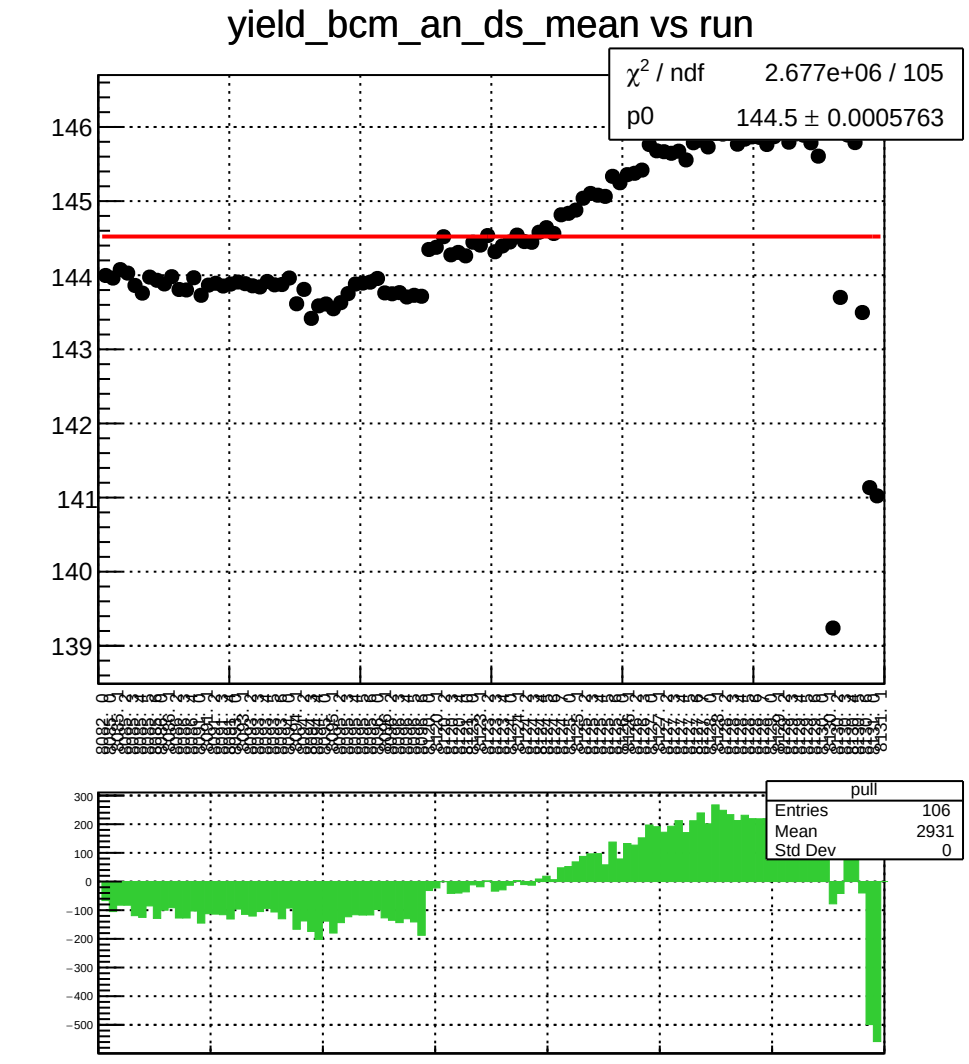

yield_bcm_target_mean vs run
χ² / ndf 2.783e+06 / 105
p0 144.4 ± 0.0005785
146
145
144
143
142
141
140
139
pull
Entries 106
Mean 2018
Std Dev 0
300
200
100
0
−100
−200
−300
−400
−500
pull1D
Entries 106
Mean 5.528
Std Dev 1.022
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

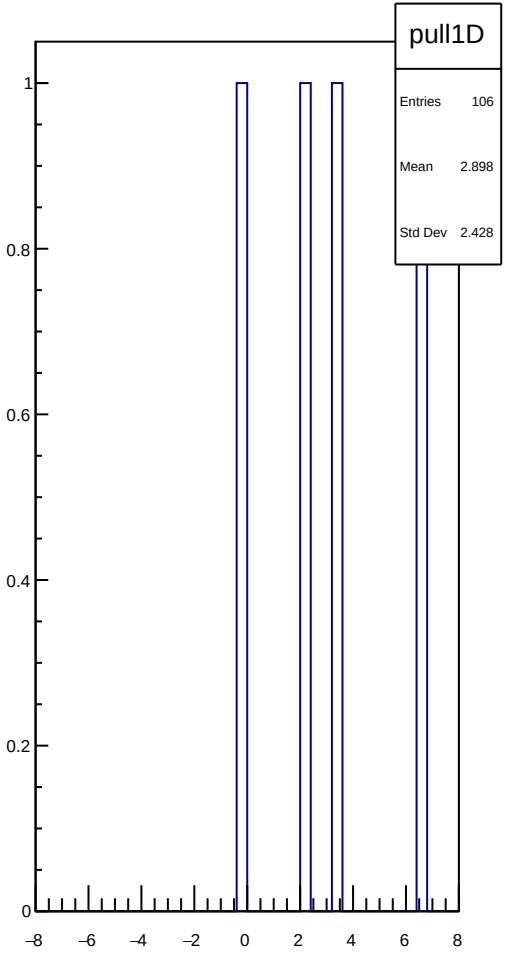

yield_bcm_target_rms vs run
χ² / ndf 5.734e+04 / 105
p0 0.5735 ± 0.0004091
7
6
5
4
3
2
1

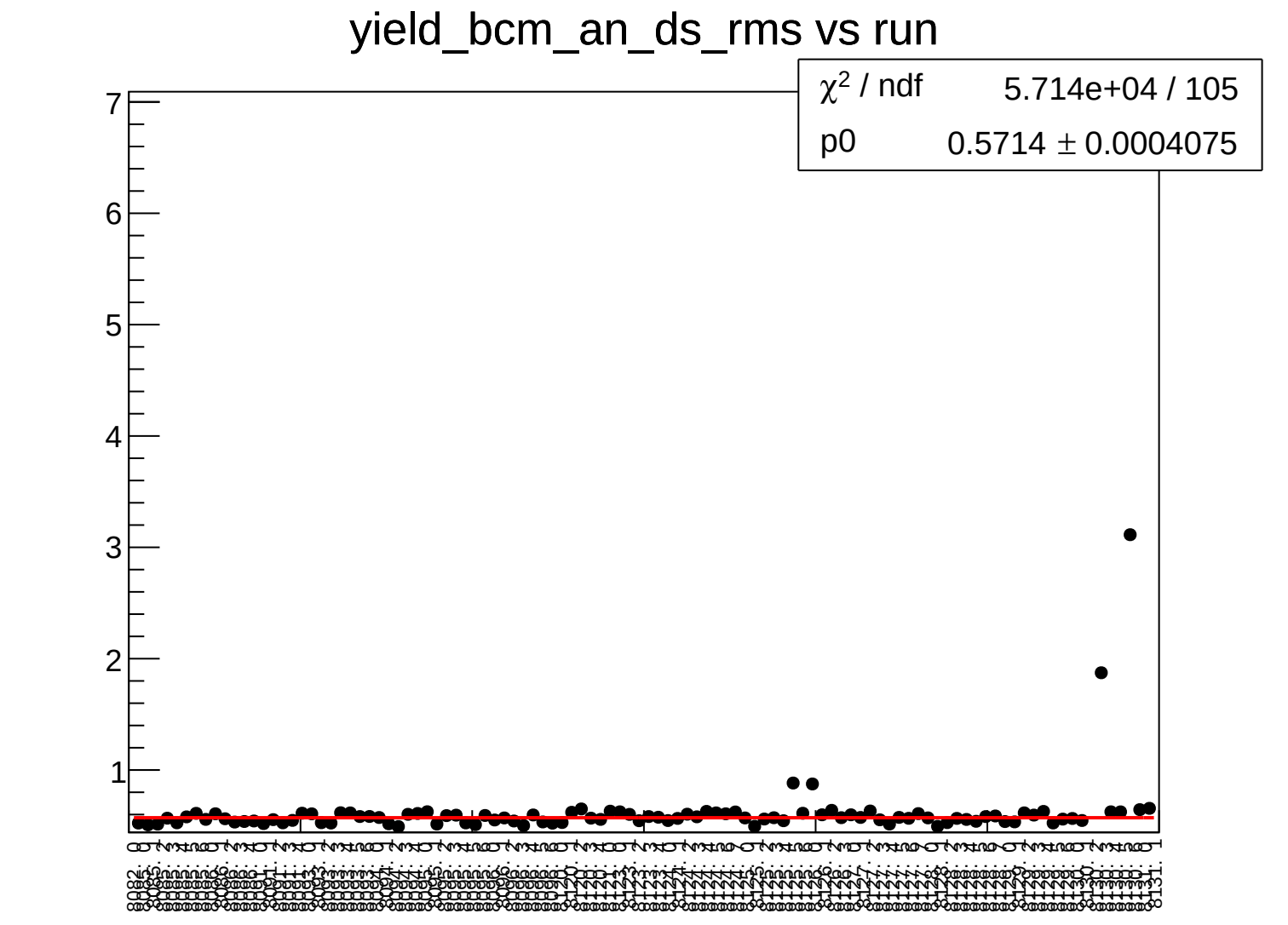

yield_bcm_an_diff_mean vs run
×10^3
χ² / ndf 1.541e+07 / 105
p0 −5.895e+04 ± 5.748
0
−20
−40
−60
−80
−100
−120
pull
Entries 106
Mean −494.1
Std Dev 0
1000
500
0
−500
−1000

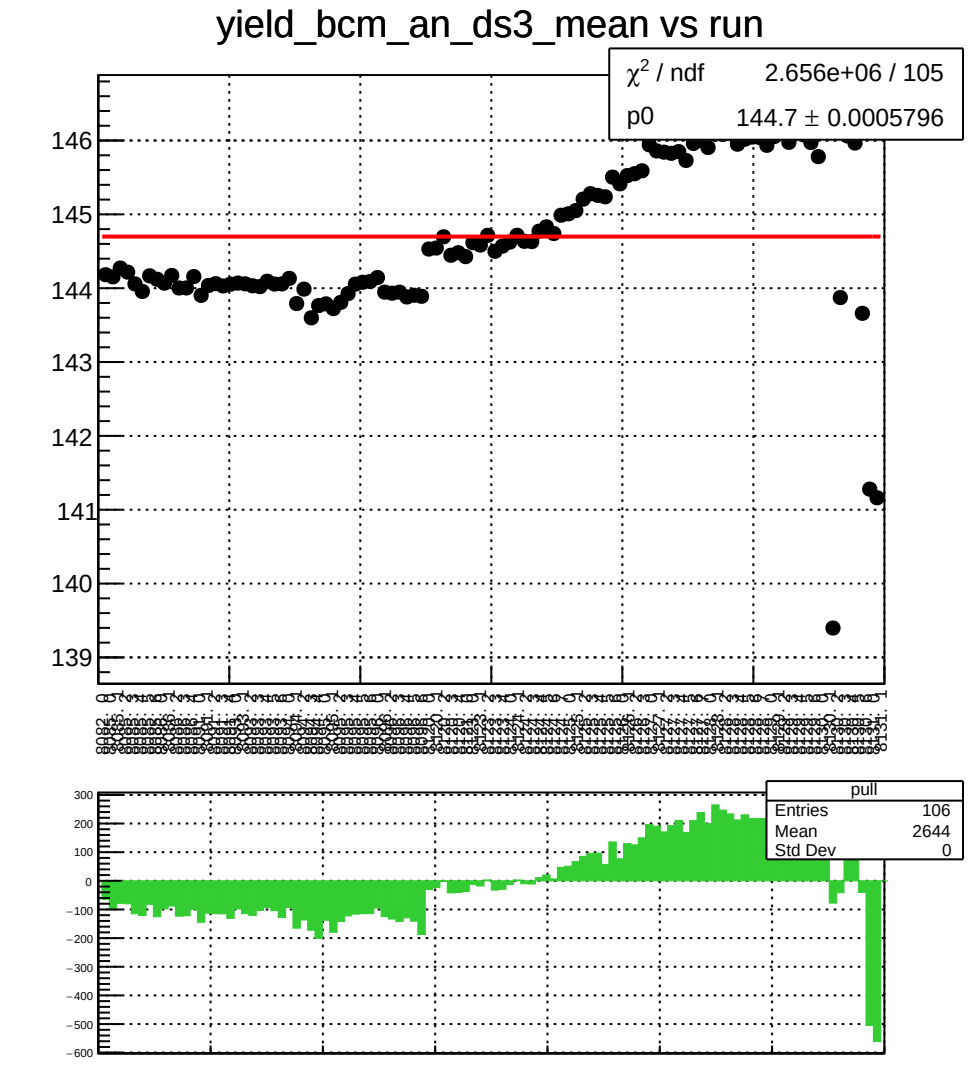

pull1D
Entries 106
Mean 4.548
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

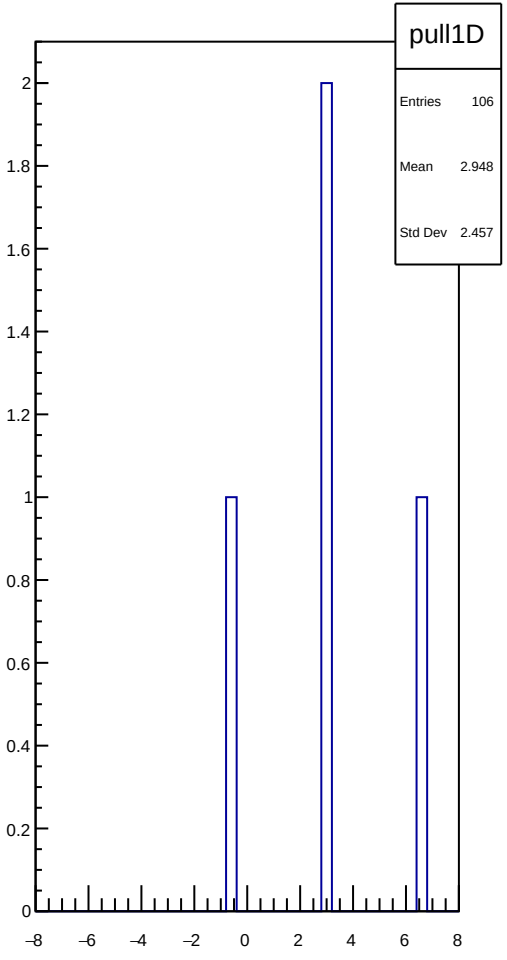

yield_bcm_an_diff_rms vs run
χ² / ndf 1.929e+05 / 105
p0 5498 ± 4.064
18000
16000
14000
12000
10000
8000
6000
4000

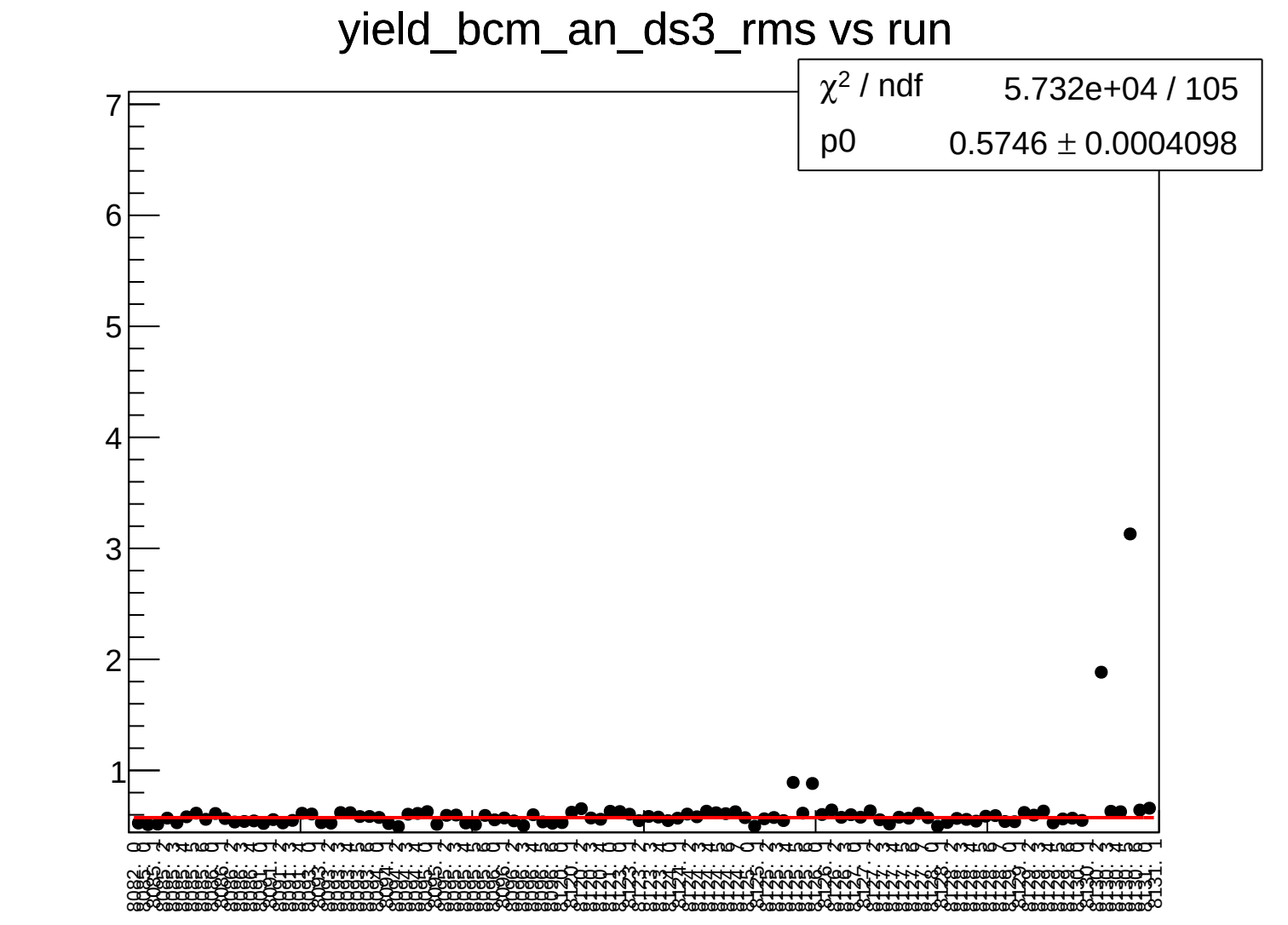

yield_bcm_an_ds_mean vs run
χ² / ndf 2.677e+06 / 105
p0 144.5 ± 0.0005763
146
145
144
143
142
141
140
139
pull
Entries 106
Mean 2931
Std Dev 0
300
200
100
0
−100
−200
−300
−400
−500

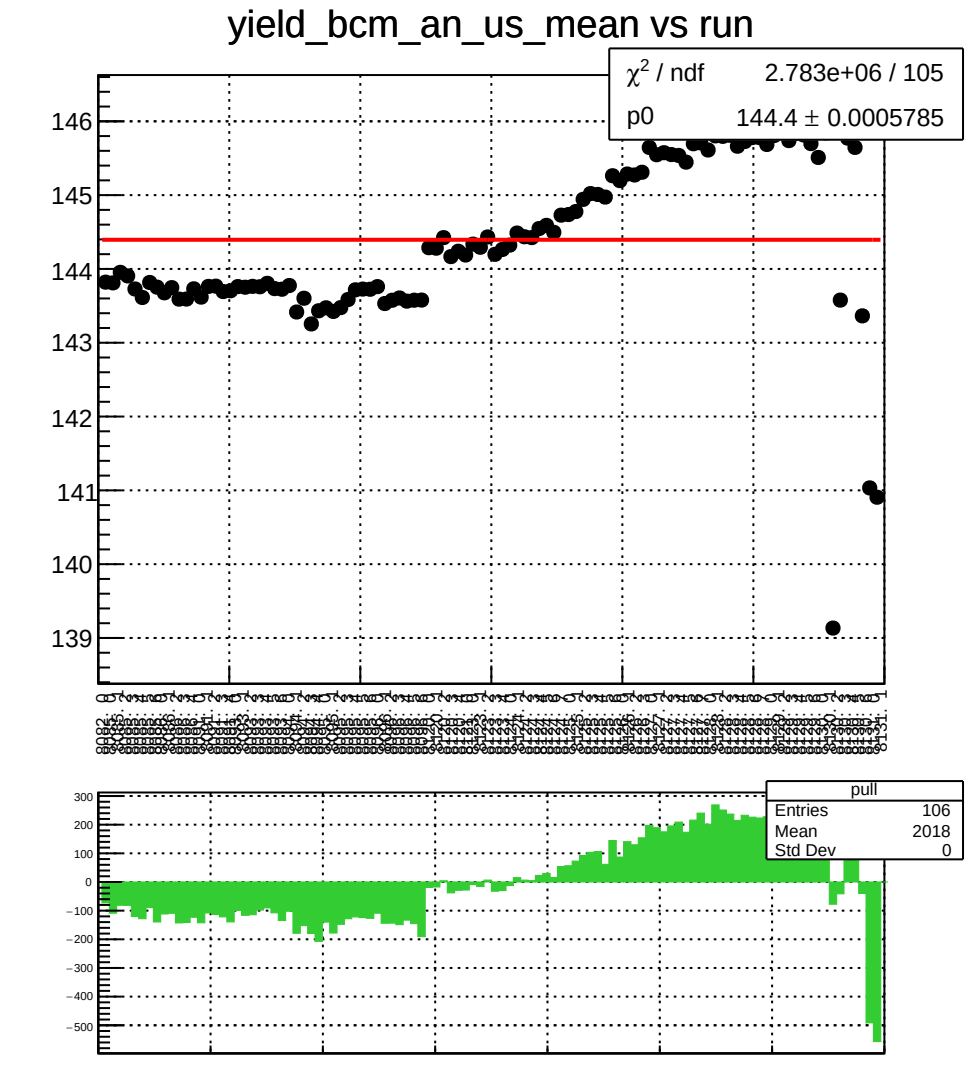

pull1D
Entries 106
Mean 2.898
Std Dev 2.428
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

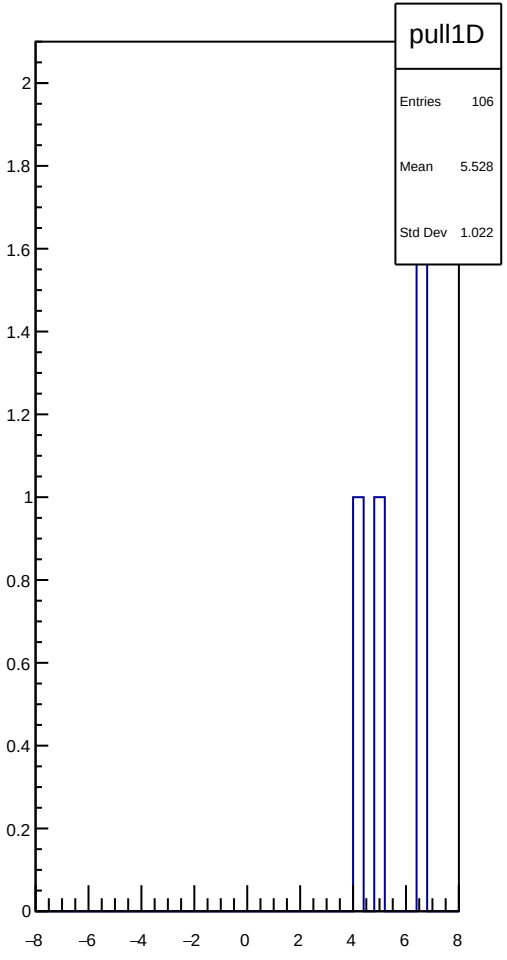

yield_bcm_an_ds_rms vs run
χ² / ndf 5.714e+04 / 105
p0 0.5714 ± 0.0004075
7
6
5
4
3
2
1

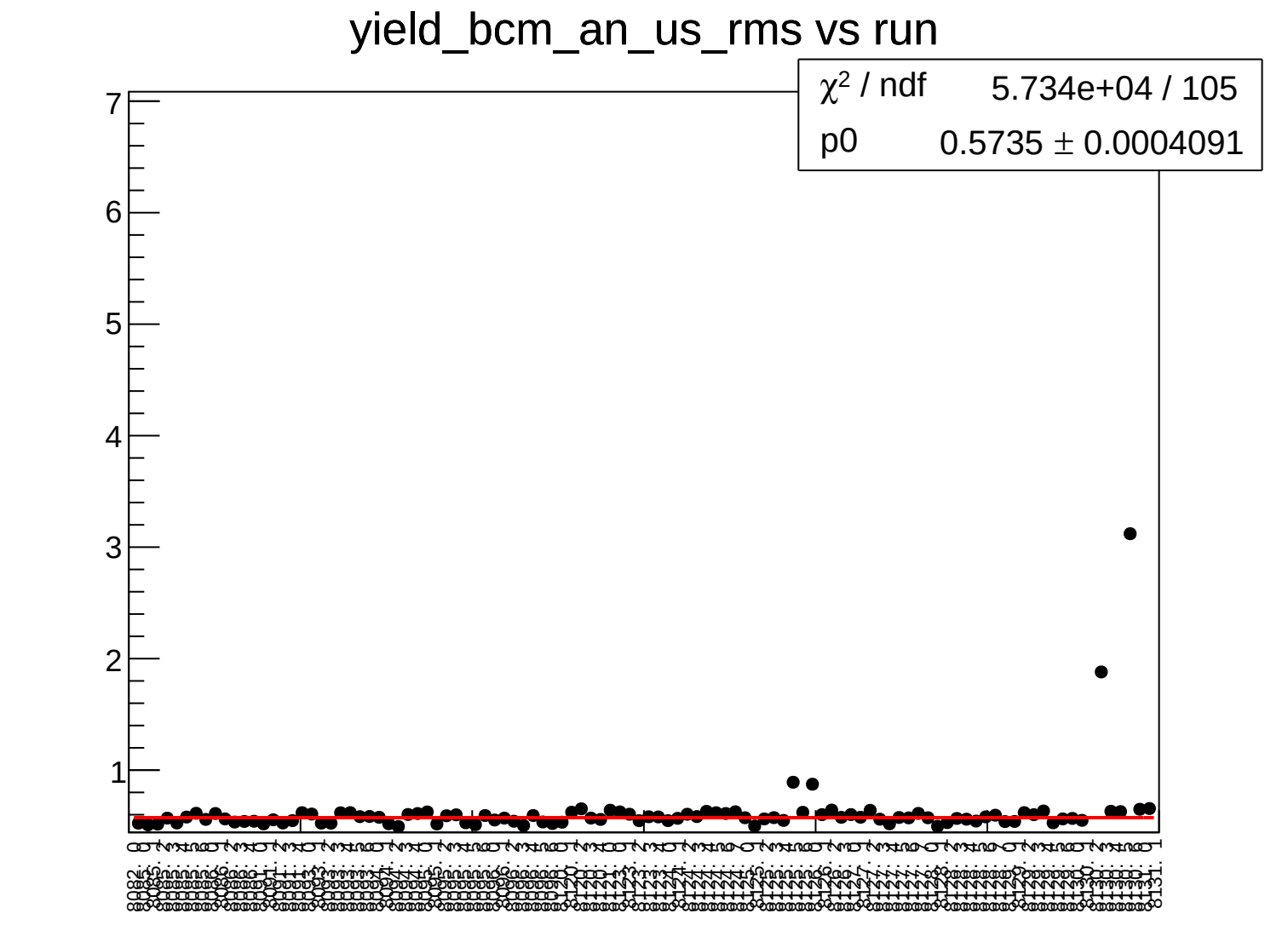

yield_bcm_an_ds3_mean vs run
χ² / ndf 2.656e+06 / 105
p0 144.7 ± 0.0005796
146
145
144
143
142
141
140
139
pull
Entries 106
Mean 2644
Std Dev 0
300
200
100
0
−100
−200
−300
−400
−500
−600

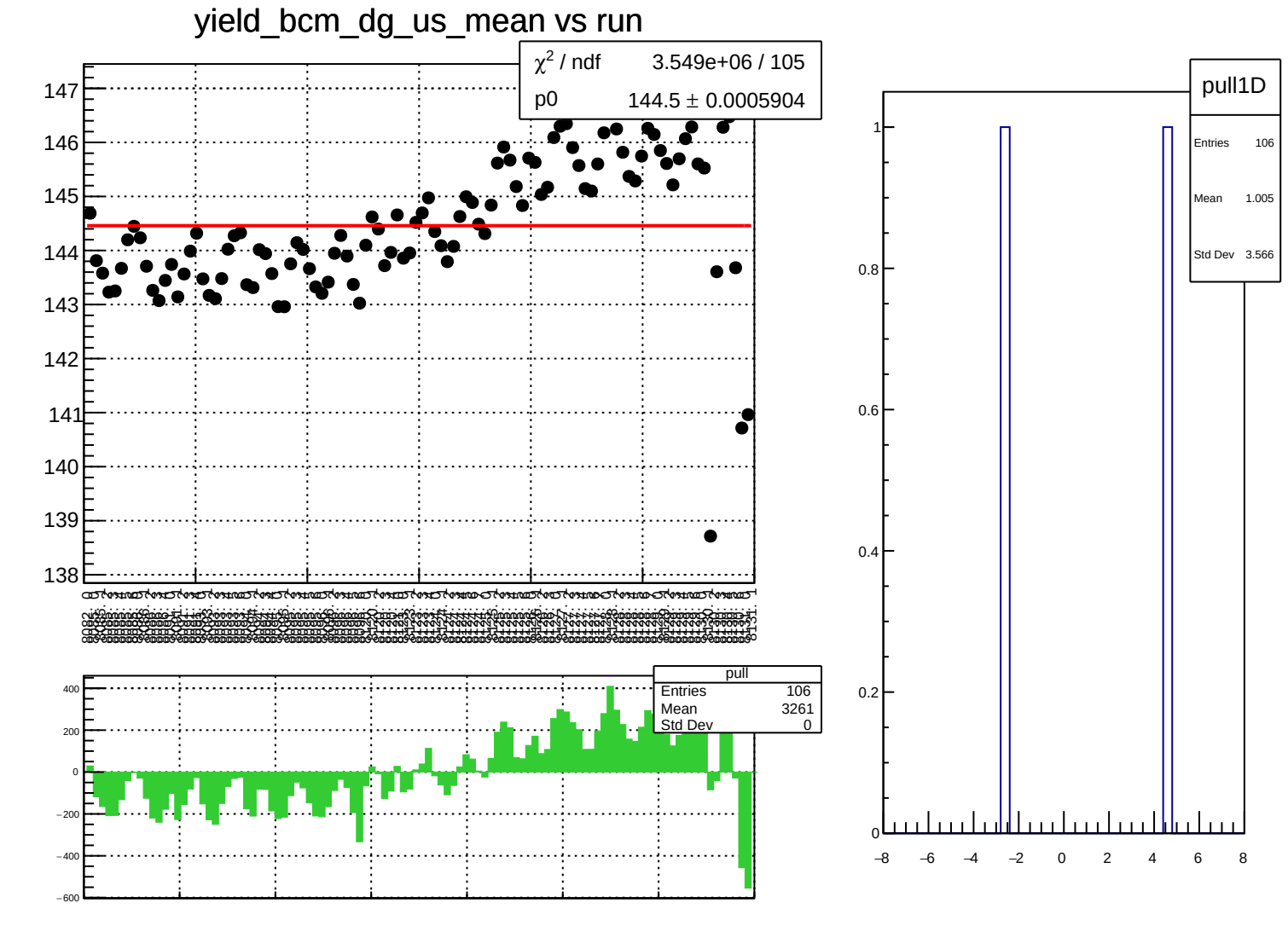

pull1D
Entries 106
Mean 2.948
Std Dev 2.457
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

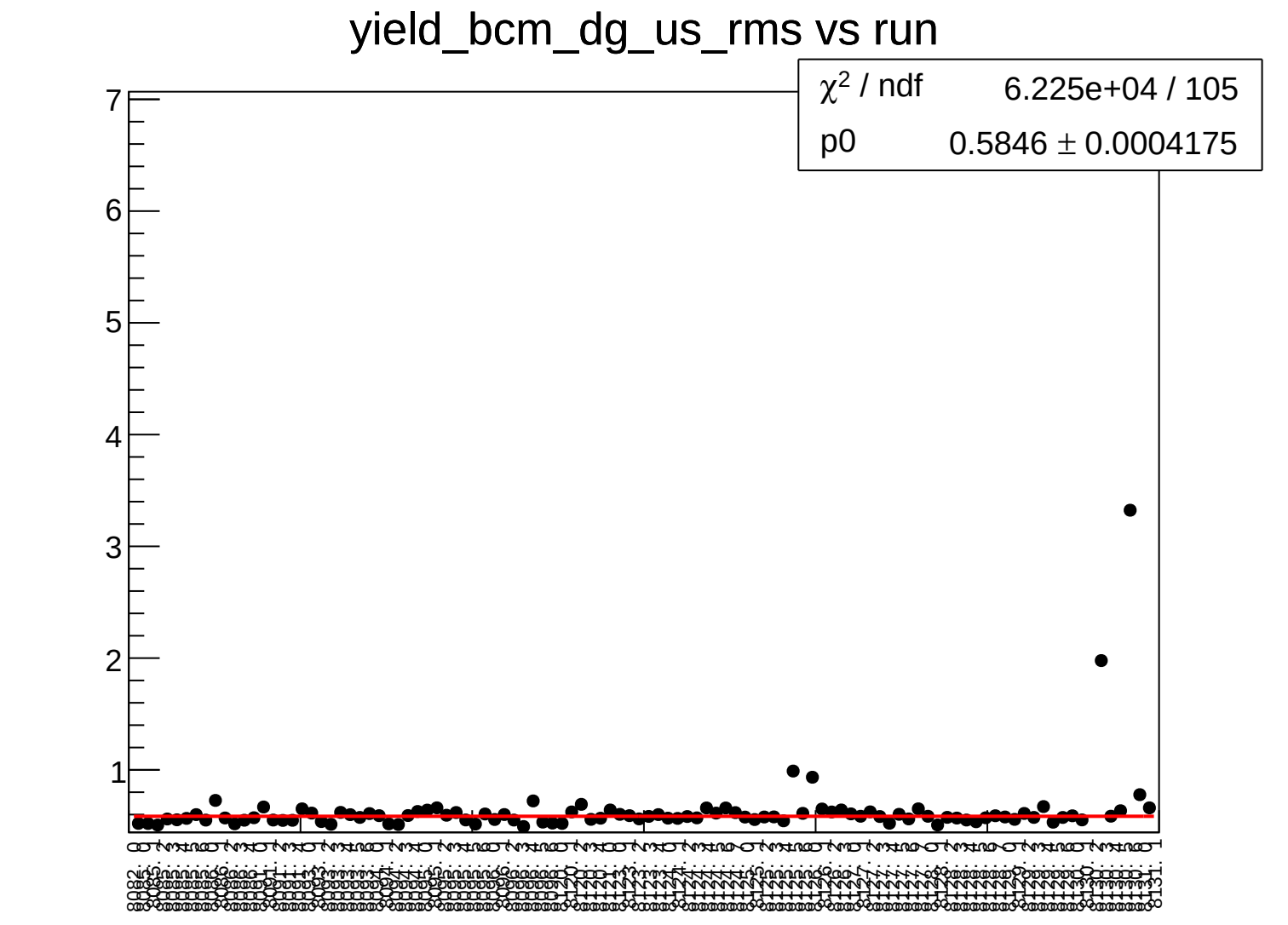

yield_bcm_an_ds3_rms vs run
χ² / ndf 5.732e+04 / 105
p0 0.5746 ± 0.0004098
7
6
5
4
3
2
1

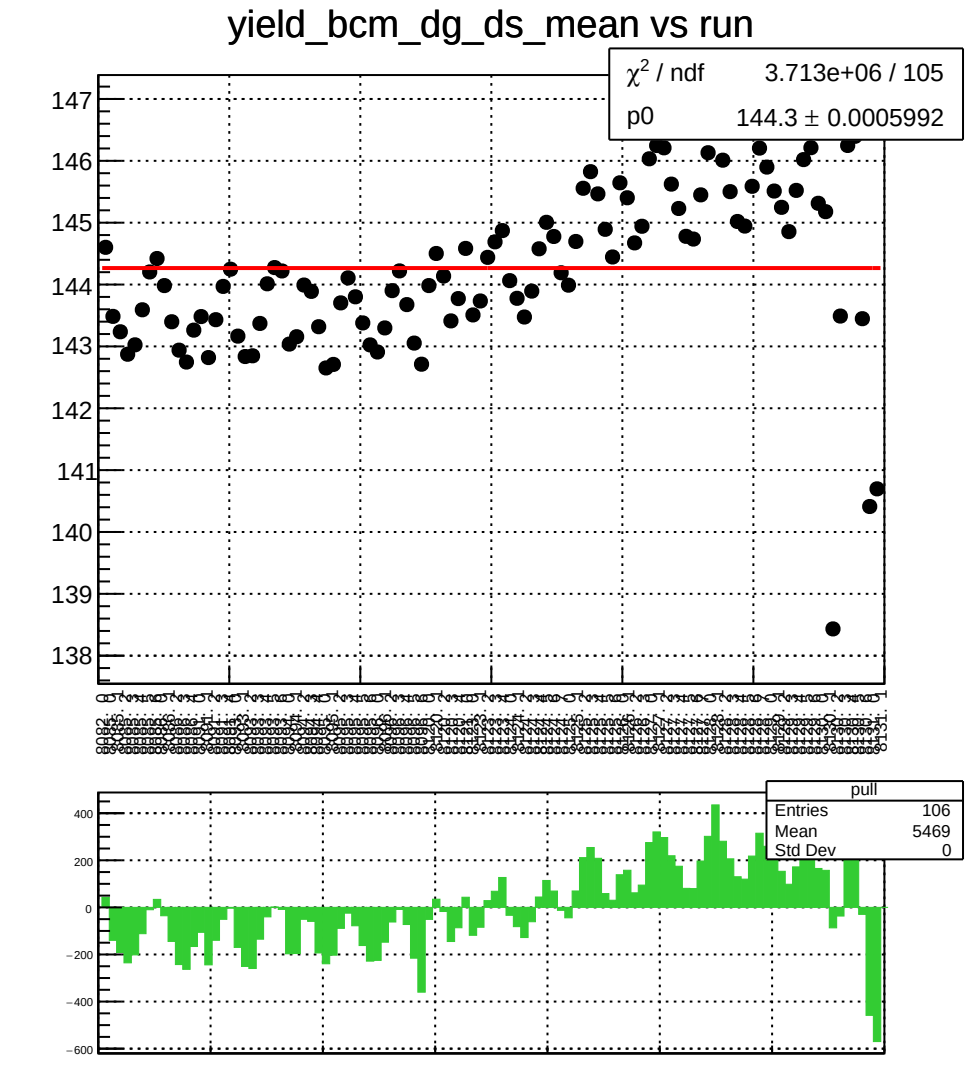

yield_bcm_an_us_mean vs run
χ² / ndf 2.783e+06 / 105
p0 144.4 ± 0.0005785
146
145
144
143
142
141
140
139
pull
Entries 106
Mean 2018
Std Dev 0
300
200
100
0
−100
−200
−300
−400
−500

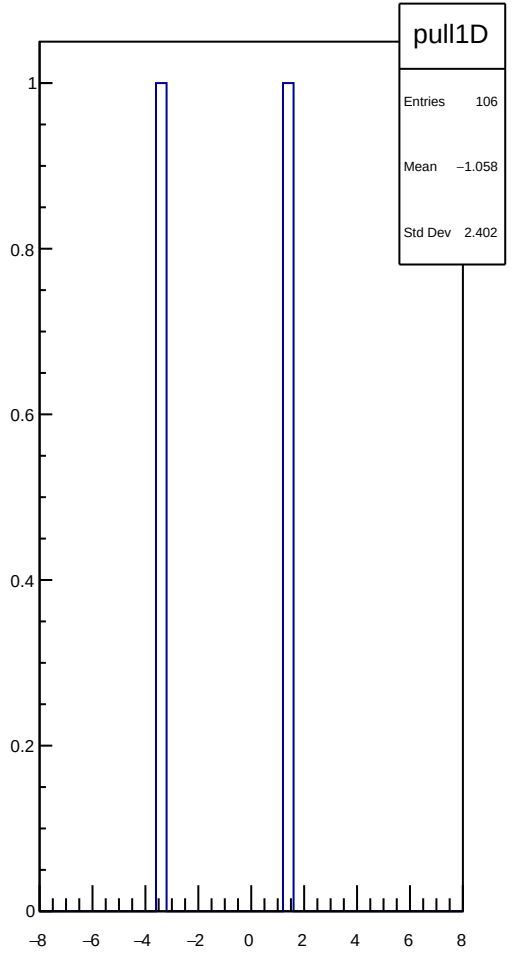

pull1D
Entries 106
Mean 5.528
Std Dev 1.022
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

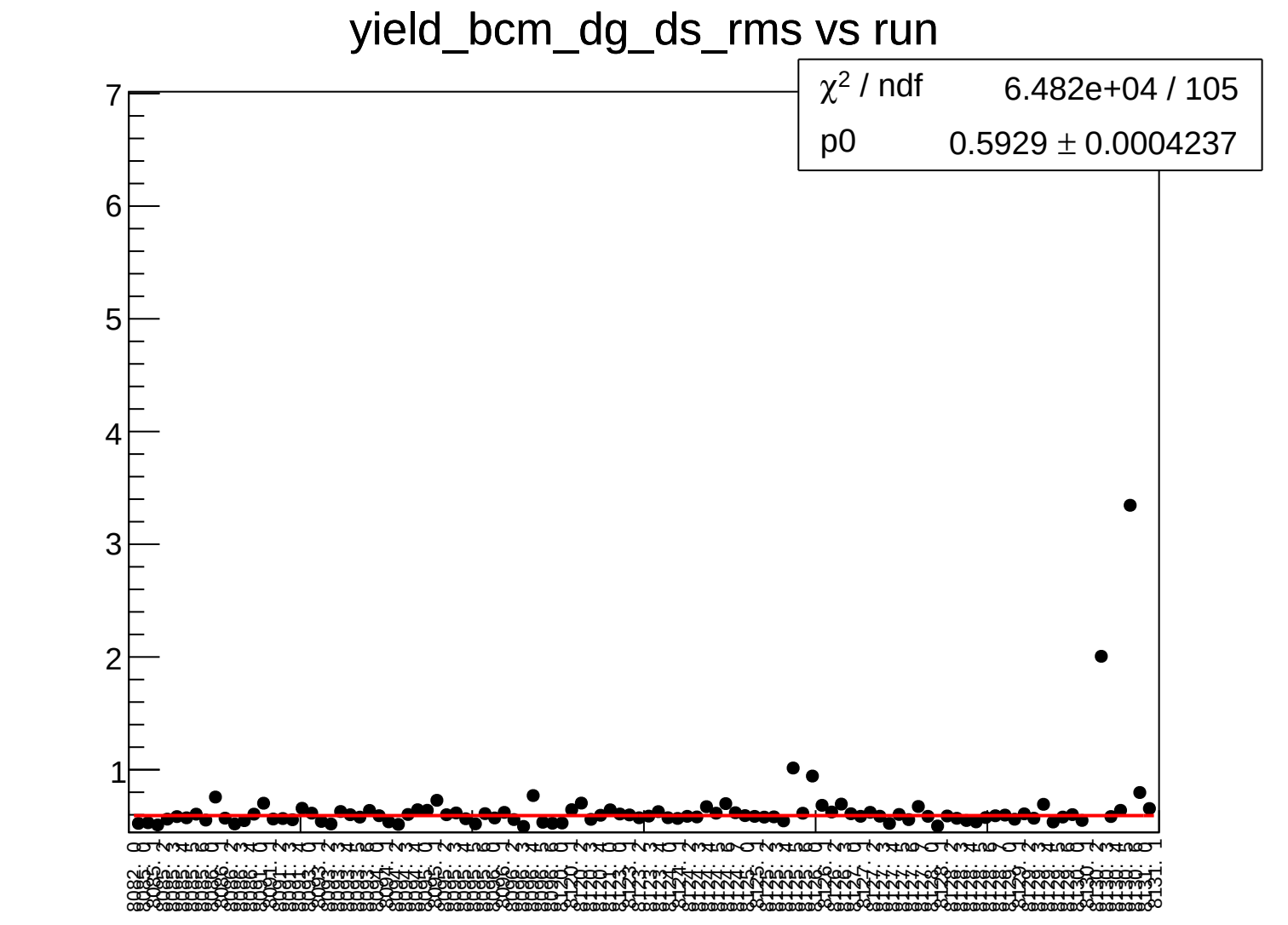

yield_bcm_an_us_rms vs run
$\chi^2$ / ndf 5.734e+04 / 105
p0 0.5735 ± 0.0004091
7
6
5
4
3
2
1

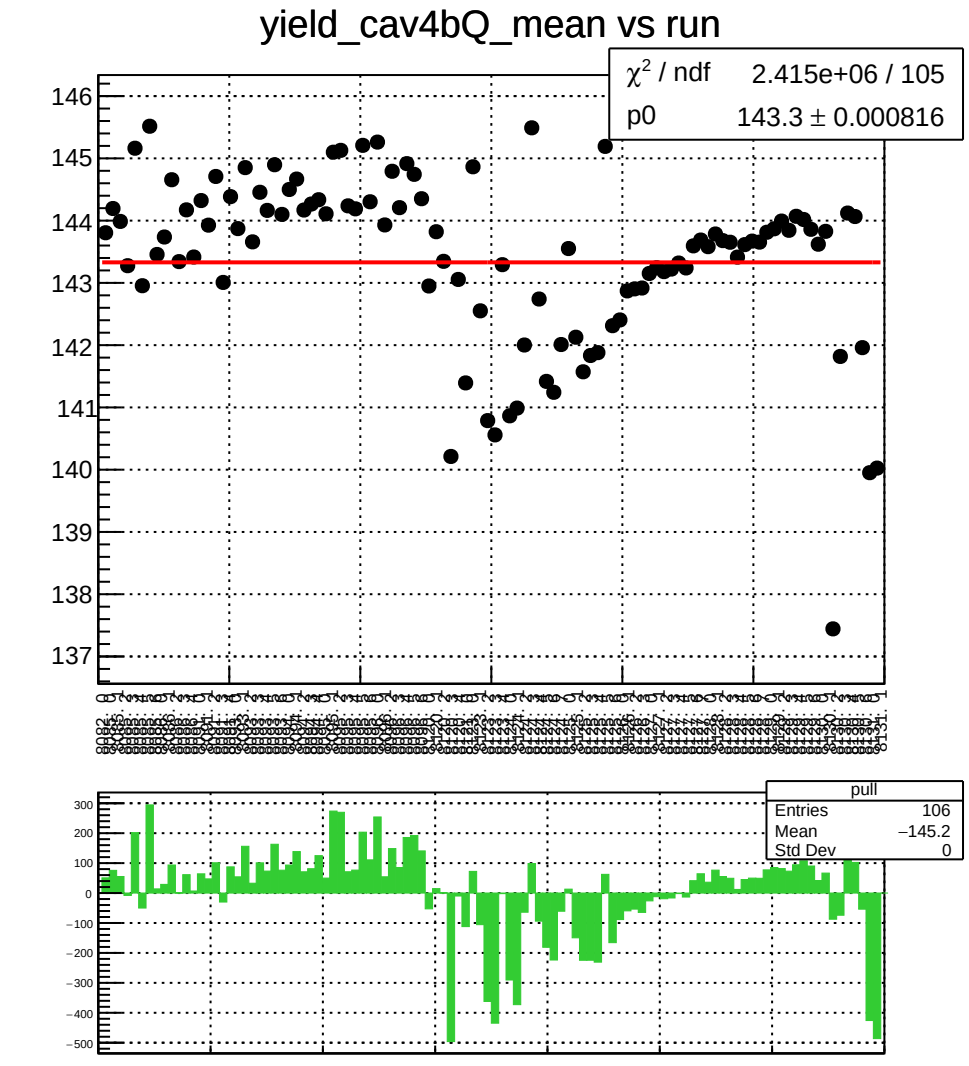

yield_bcm_dg_us_mean vs run
χ² / ndf 3.549e+06 / 105
p0 144.5 ± 0.0005904
147
146
145
144
143
142
141
140
139
138
pull
Entries 106
Mean 3261
Std Dev 0
400
200
0
−200
−400
−600
pull1D
Entries 106
Mean 1.005
Std Dev 3.566
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

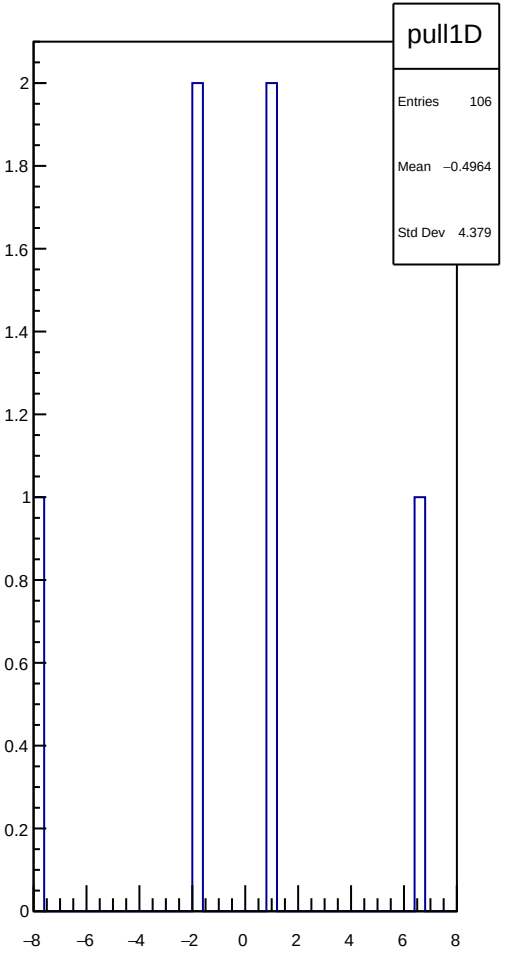

yield_bcm_dg_us_rms vs run
χ² / ndf 6.225e+04 / 105
p0 0.5846 ± 0.0004175
7
6
5
4
3
2
1

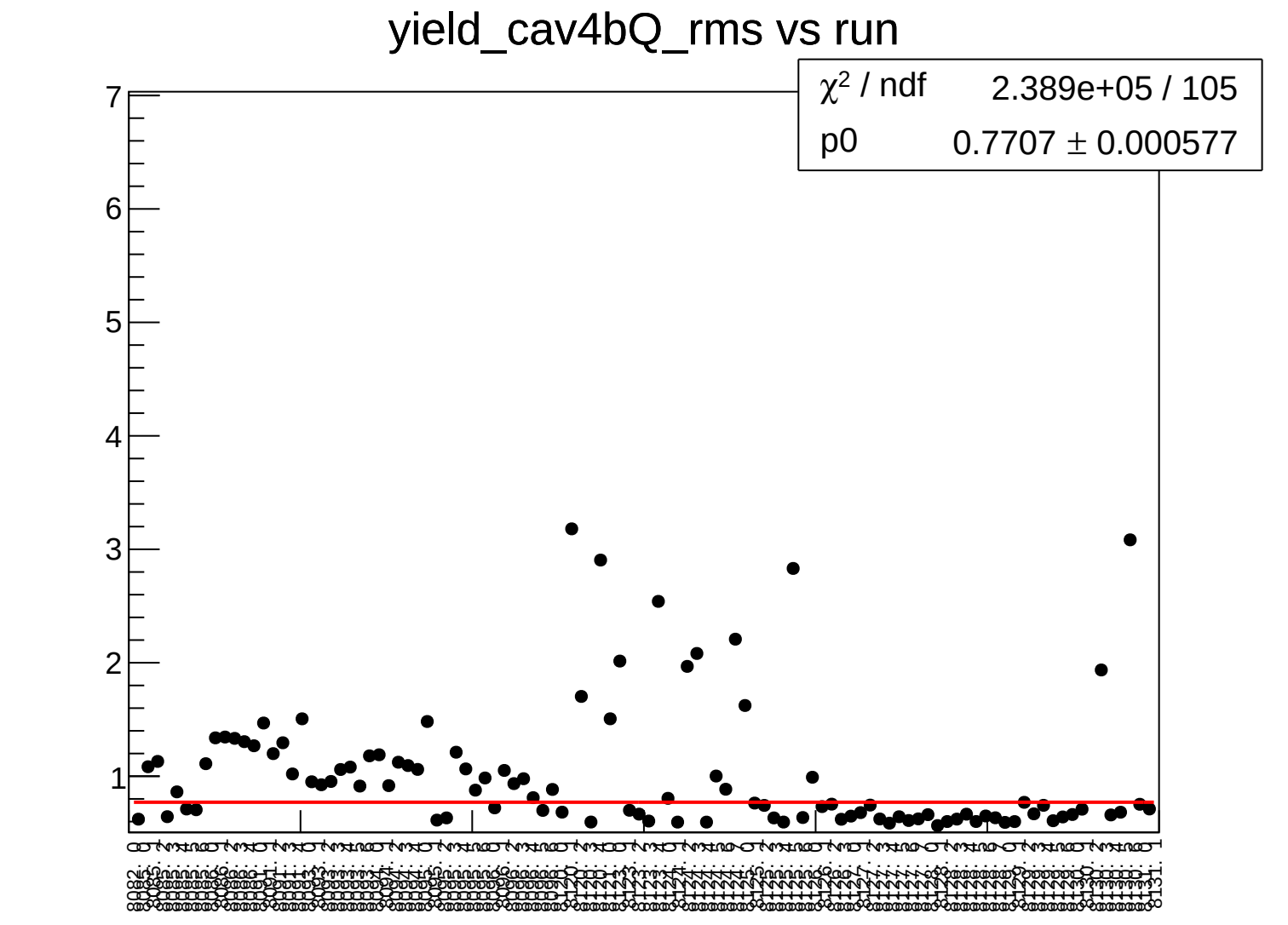

yield_bcm_dg_ds_mean vs run
χ² / ndf 3.713e+06 / 105
p0 144.3 ± 0.0005992
147
146
145
144
143
142
141
140
139
138
pull
Entries 106
Mean 5469
Std Dev 0
400
200
0
−200
−400
−600

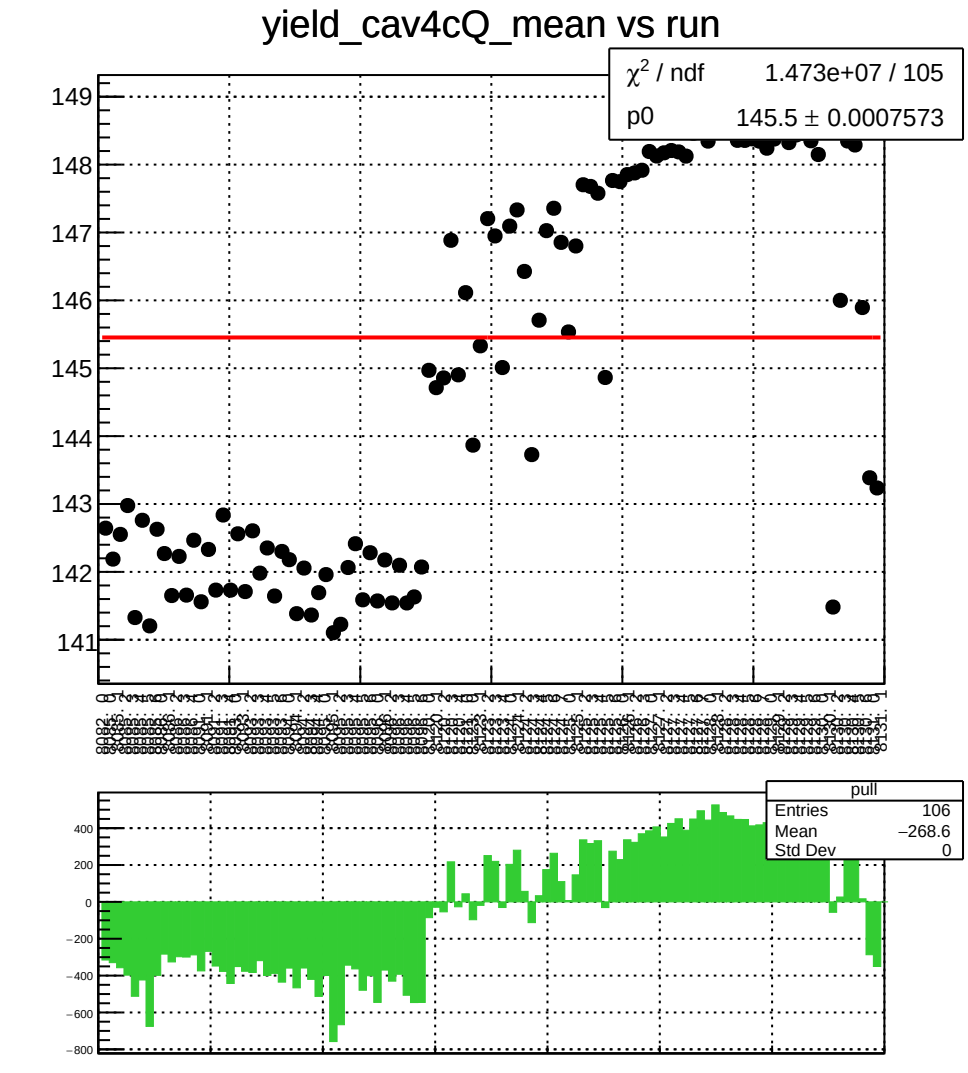

pull1D
Entries 106
Mean −1.058
Std Dev 2.402
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

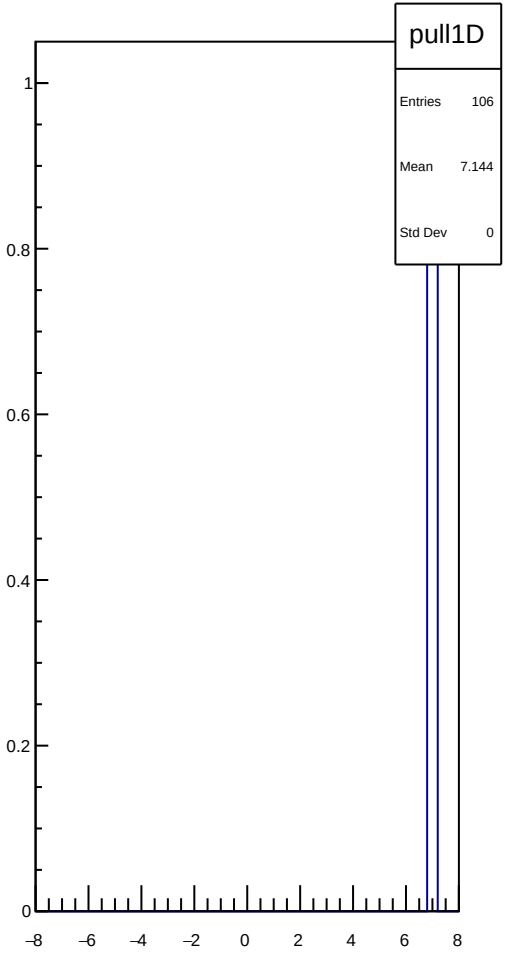

yield_bcm_dg_ds_rms vs run
$\chi^2$ / ndf 6.482e+04 / 105
p0 0.5929 ± 0.0004237
7
6
5
4
3
2
1

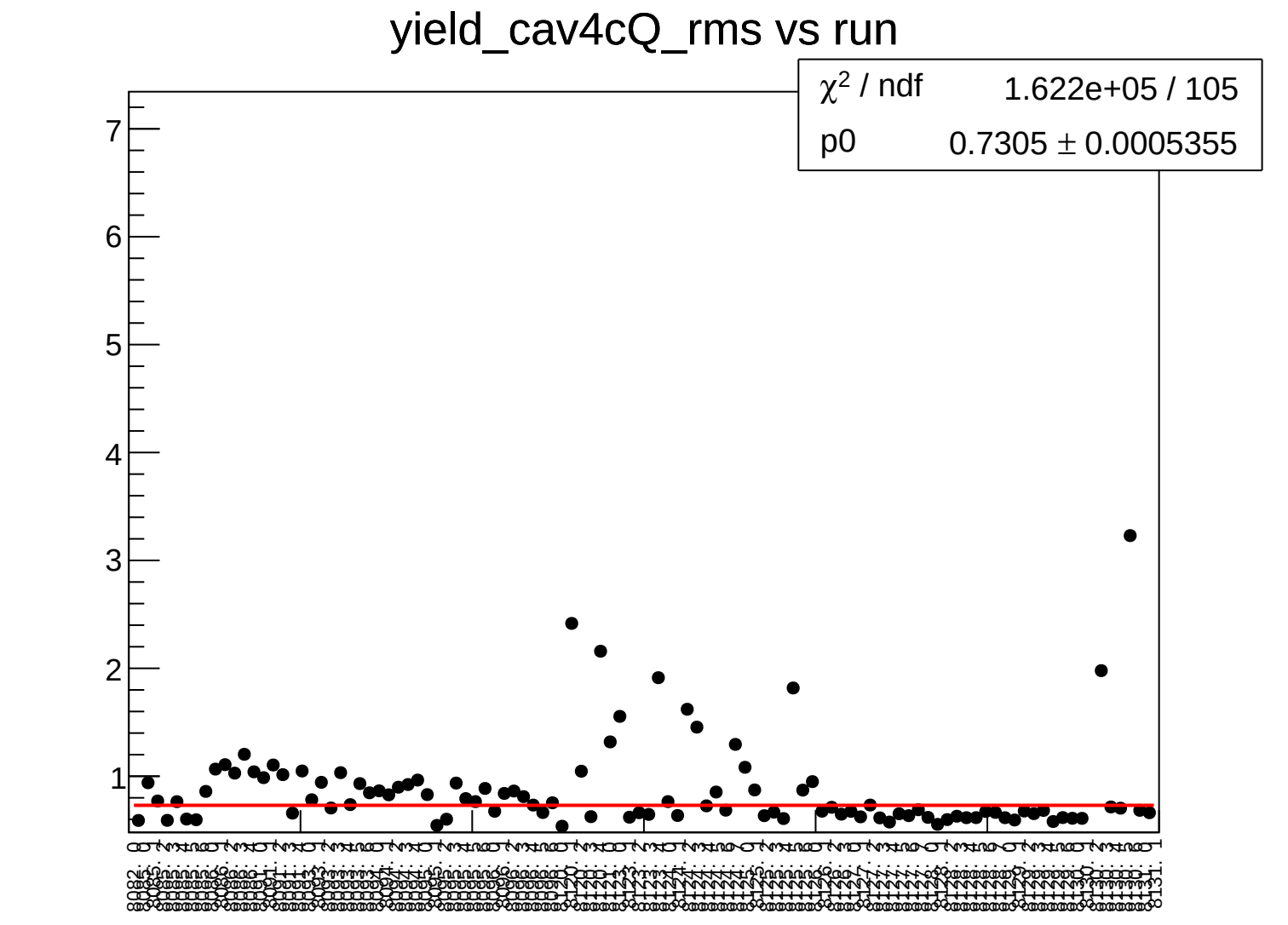

yield_cav4bQ_mean vs run
χ² / ndf 2.415e+06 / 105
p0 143.3 ± 0.000816
pull
Entries 106
Mean −145.2
Std Dev 0

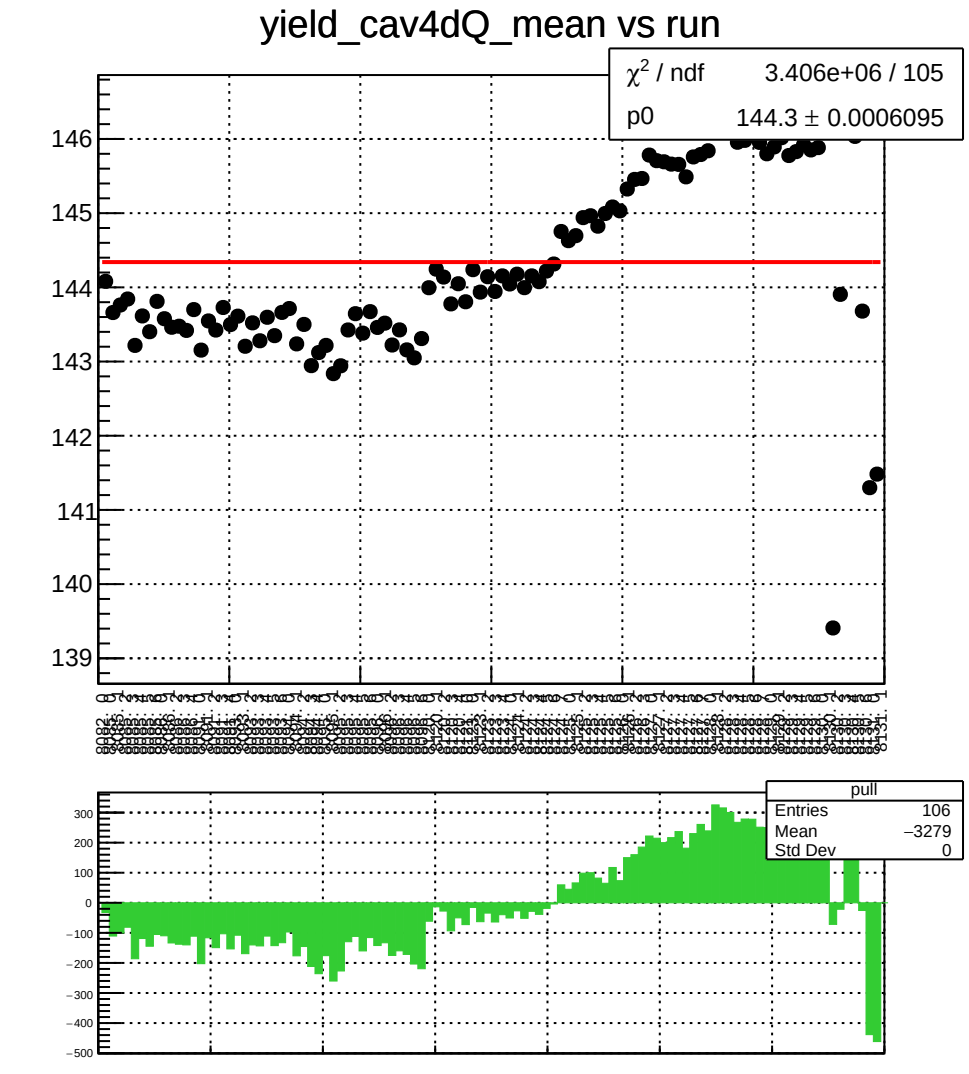

pull1D
Entries 106
Mean −0.4964
Std Dev 4.379

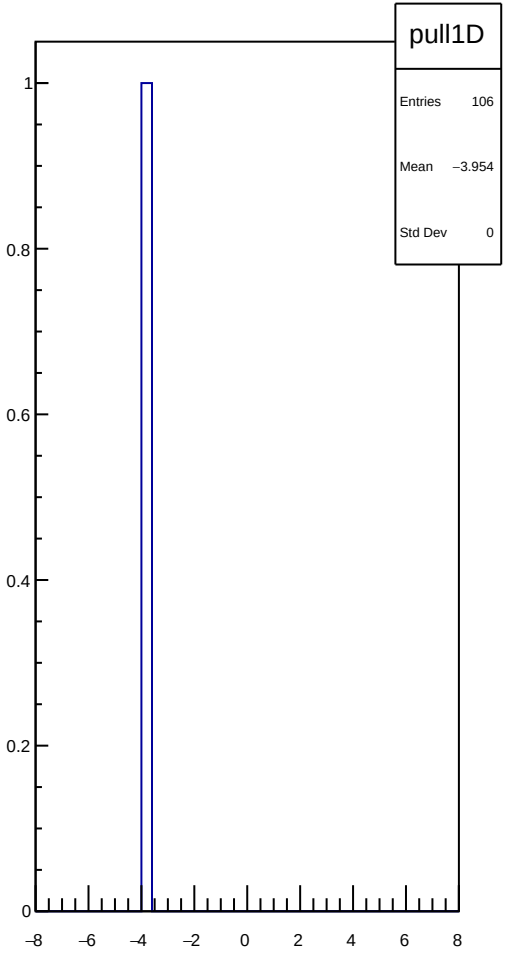

yield_cav4bQ_rms vs run
χ² / ndf 2.389e+05 / 105
p0 0.7707 ± 0.000577
7
6
5
4
3
2
1

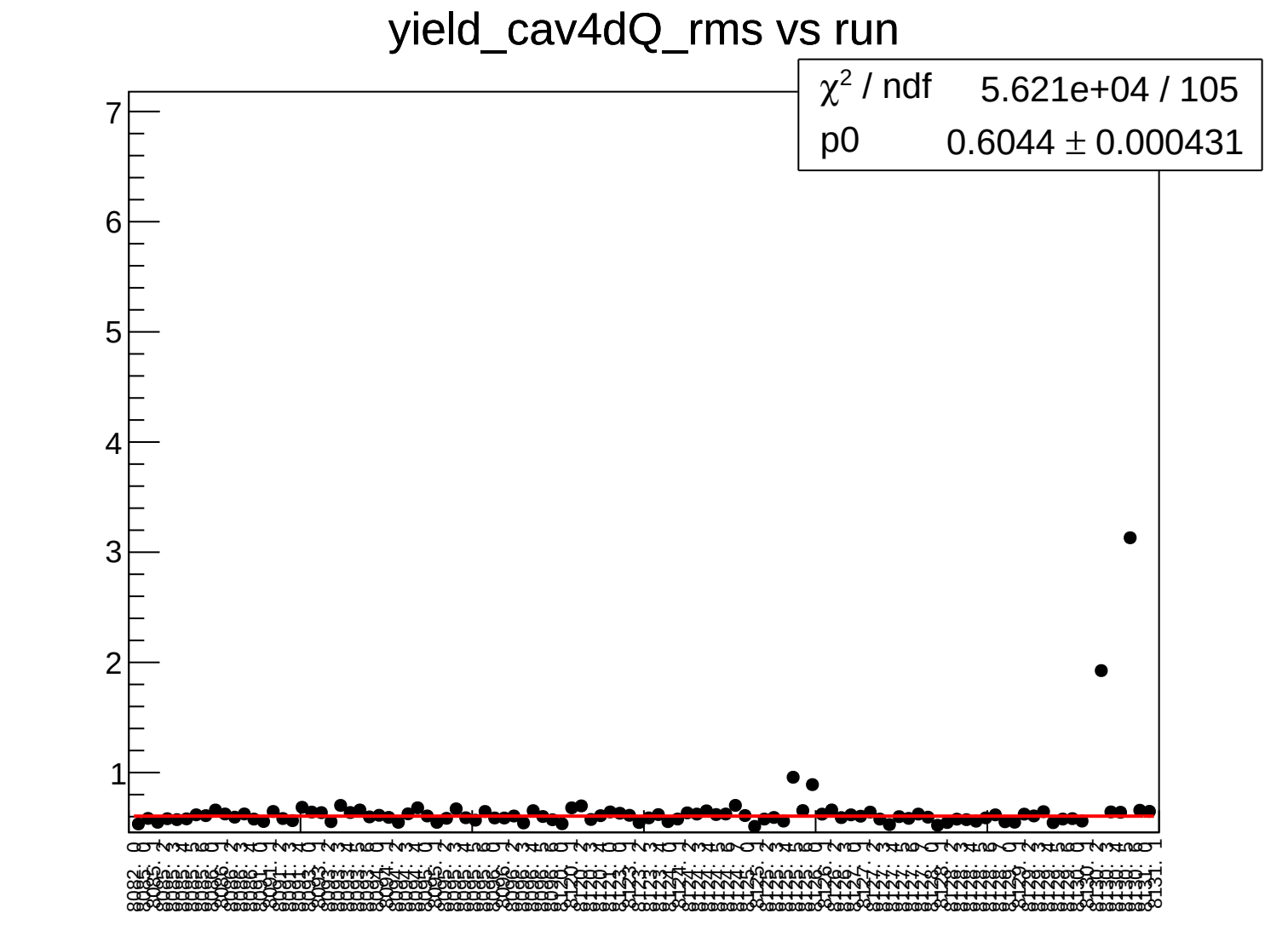

yield_cav4cQ_mean vs run
χ² / ndf 1.473e+07 / 105
p0 145.5 ± 0.0007573
149
148
147
146
145
144
143
142
141
pull
Entries 106
Mean −268.6
Std Dev 0
400
200
0
−200
−400
−600
−800

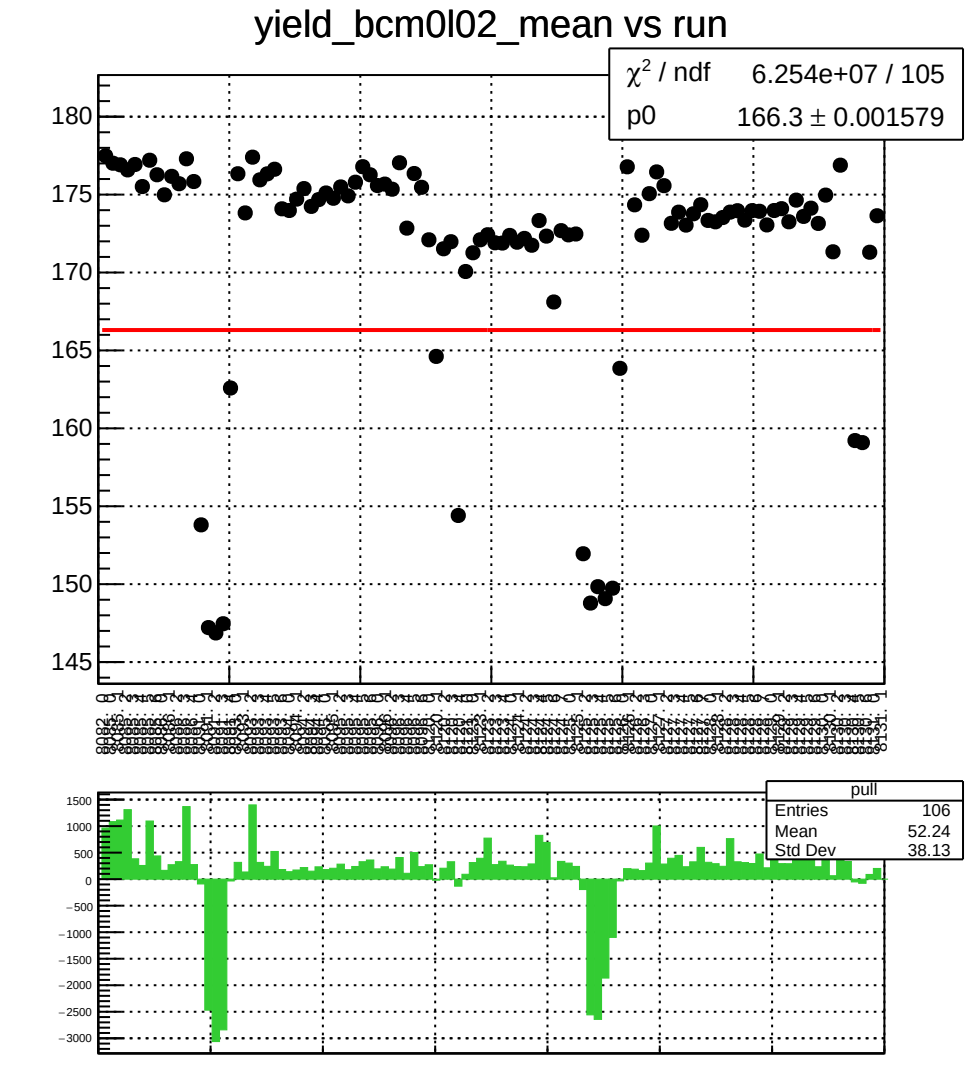

pull1D
Entries 106
Mean 7.144
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

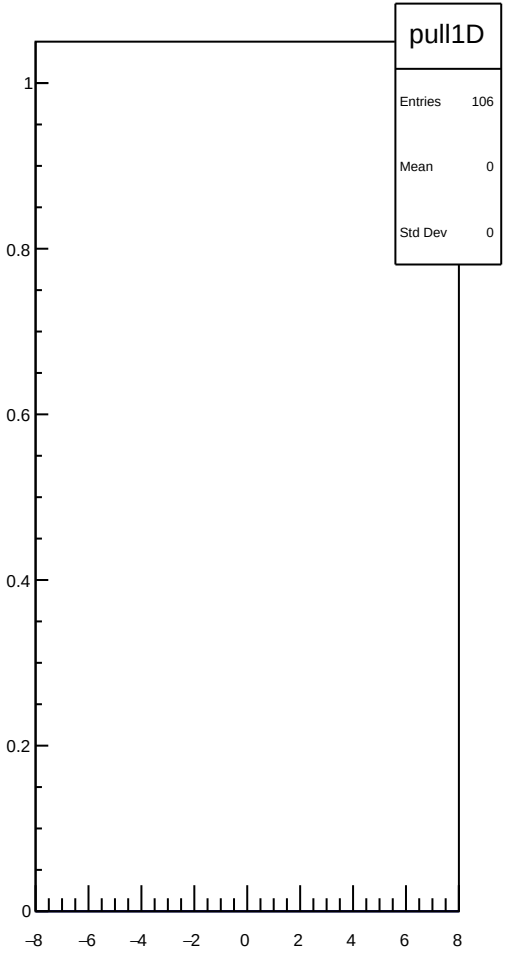

yield_cav4cQ_rms vs run
χ² / ndf 1.622e+05 / 105
p0 0.7305 ± 0.0005355
7
6
5
4
3
2
1

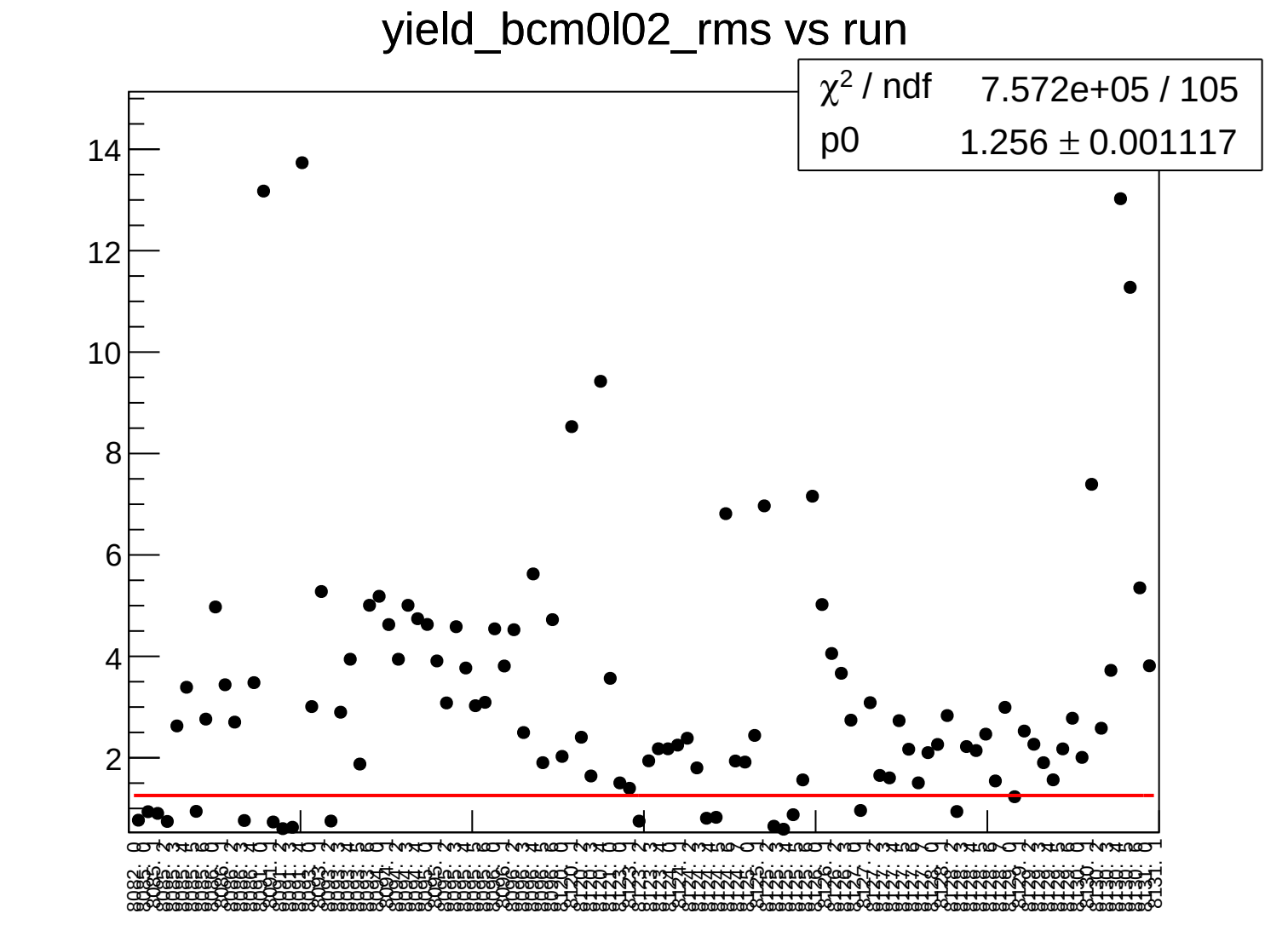

yield_cav4dQ_mean vs run
χ² / ndf 3.406e+06 / 105
p0 144.3 ± 0.0006095
146
145
144
143
142
141
140
139
pull
Entries 106
Mean −3279
Std Dev 0
300
200
100
0
−100
−200
−300
−400
−500

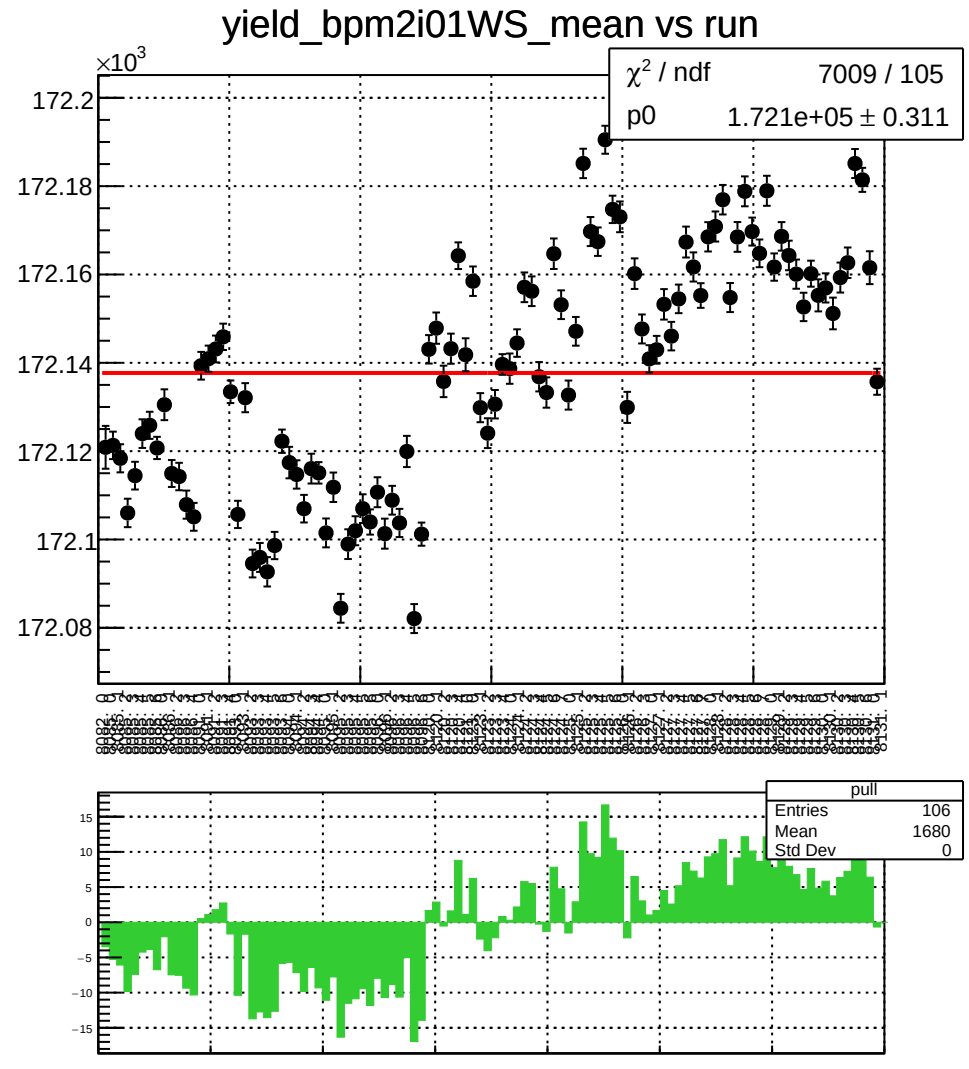

pull1D
Entries 106
Mean −3.954
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

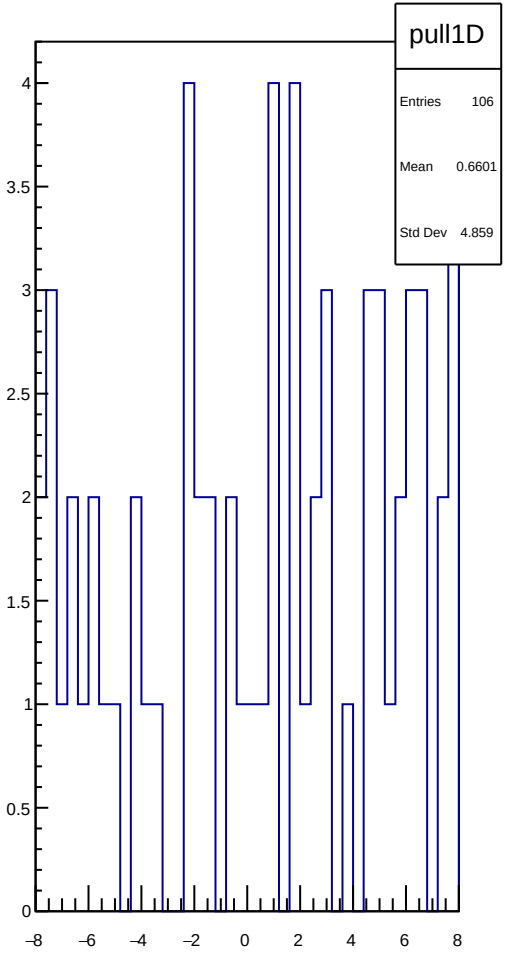

yield_cav4dQ_rms vs run
$\chi^2$ / ndf 5.621e+04 / 105
p0 0.6044 ± 0.000431
7
6
5
4
3
2
1

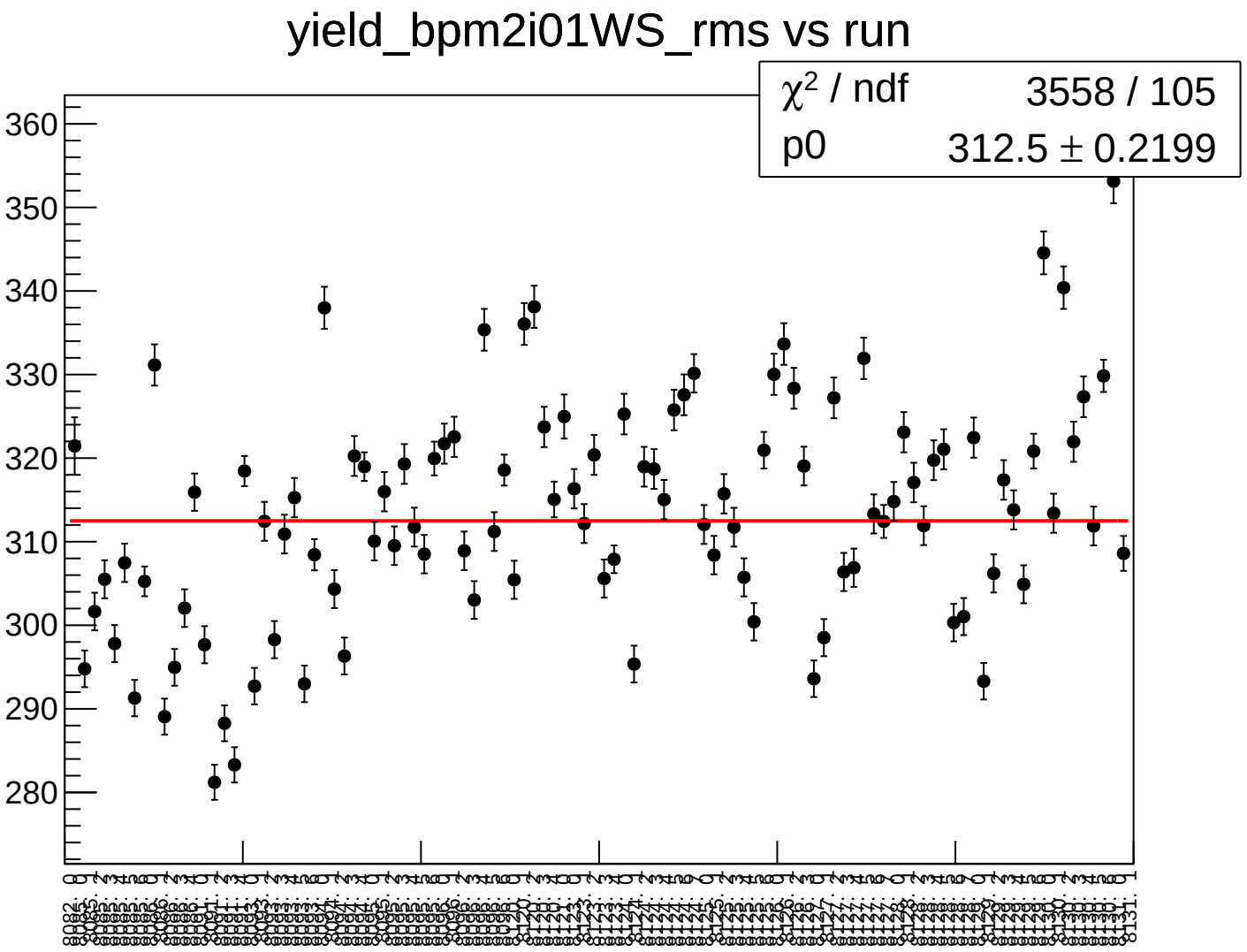

yield_bcm0l02_mean vs run
χ² / ndf 6.254e+07 / 105
p0 166.3 ± 0.001579
180
175
170
165
160
155
150
145
pull
Entries 106
Mean 52.24
Std Dev 38.13
1500
1000
500
0
−500
−1000
−1500
−2000
−2500
−3000

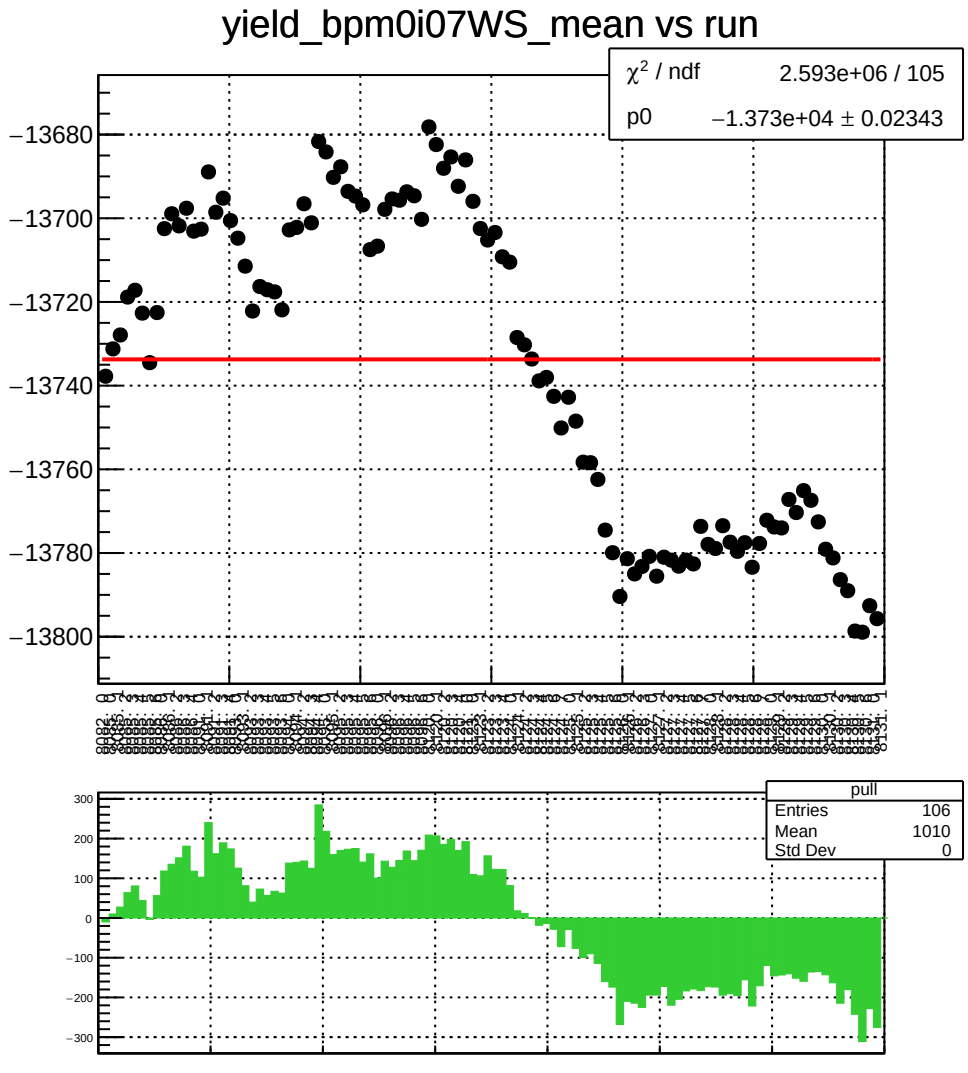

pull1D
Entries 106
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

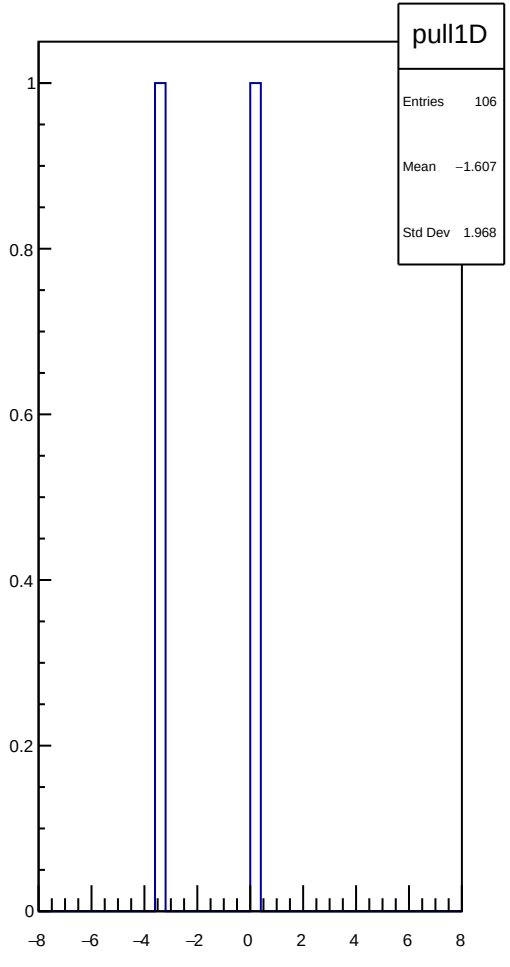

yield_bcm0l02_rms vs run
$\chi^2$ / ndf 7.572e+05 / 105
p0 1.256 ± 0.001117
14
12
10
8
6
4
2

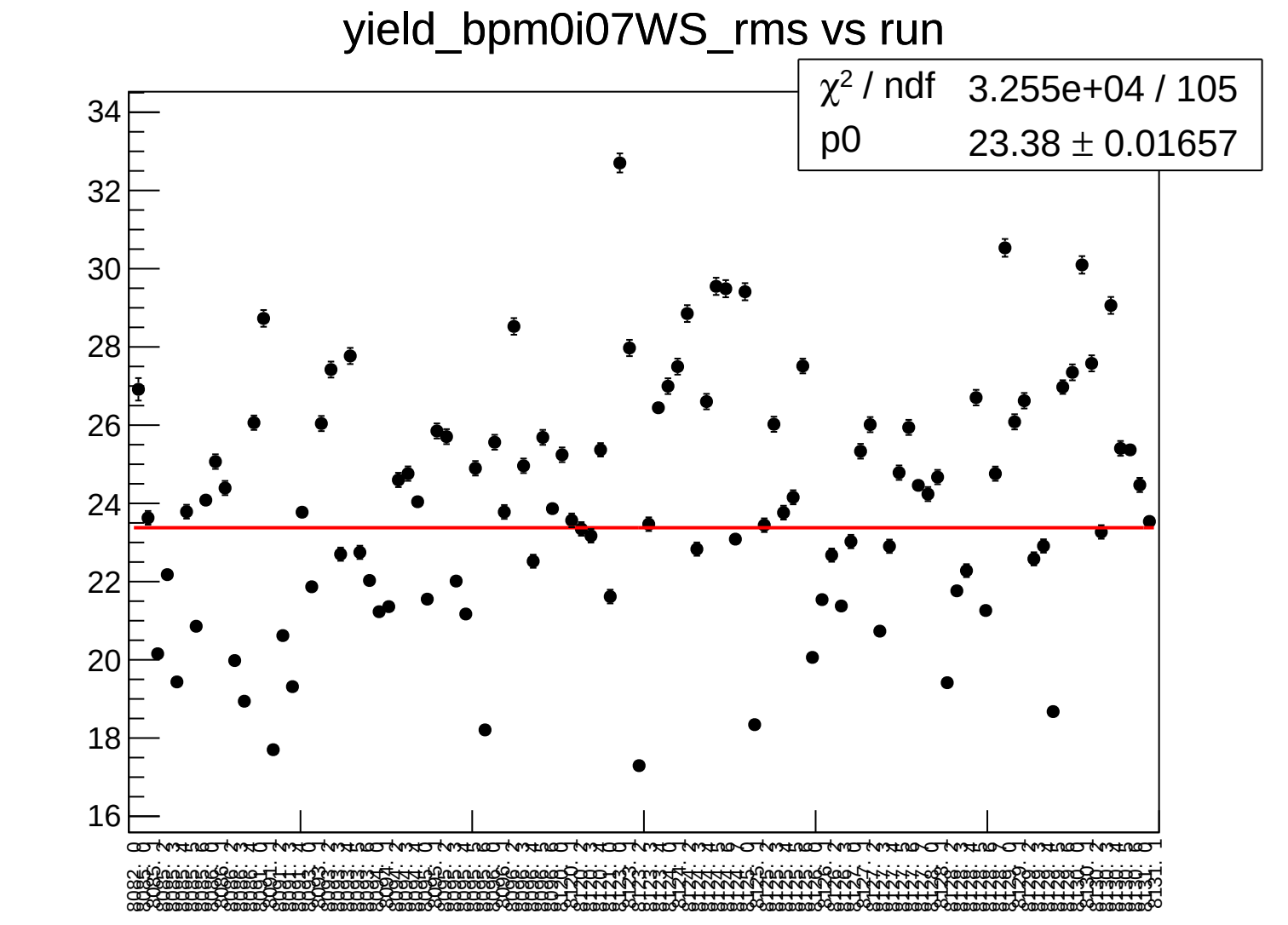

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 7009 / 105
p0 1.721e+05 ± 0.311
172.2
172.18
172.16
172.14
172.12
172.1
172.08
pull
Entries 106
Mean 1680
Std Dev 0
15
10
5
0
−5
−10
−15

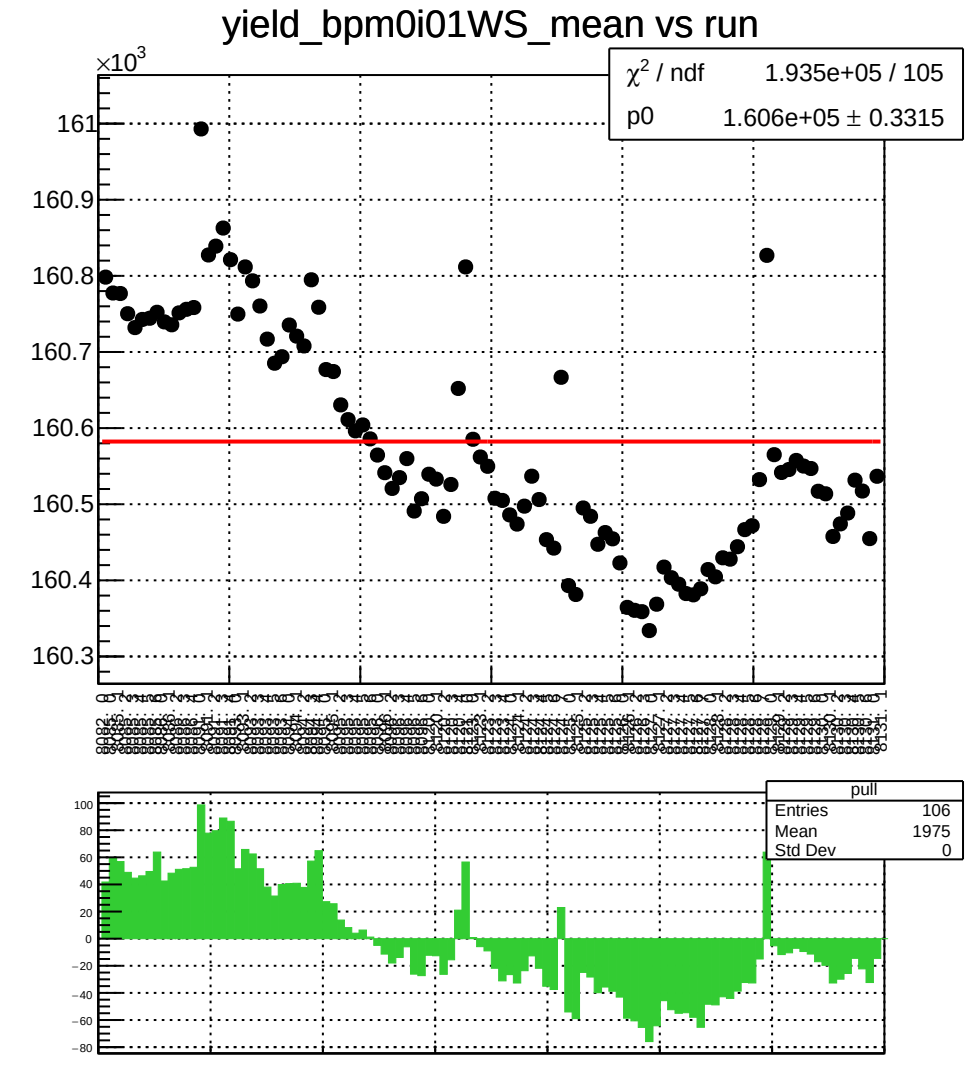

pull1D
Entries 106
Mean 0.6601
Std Dev 4.859
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

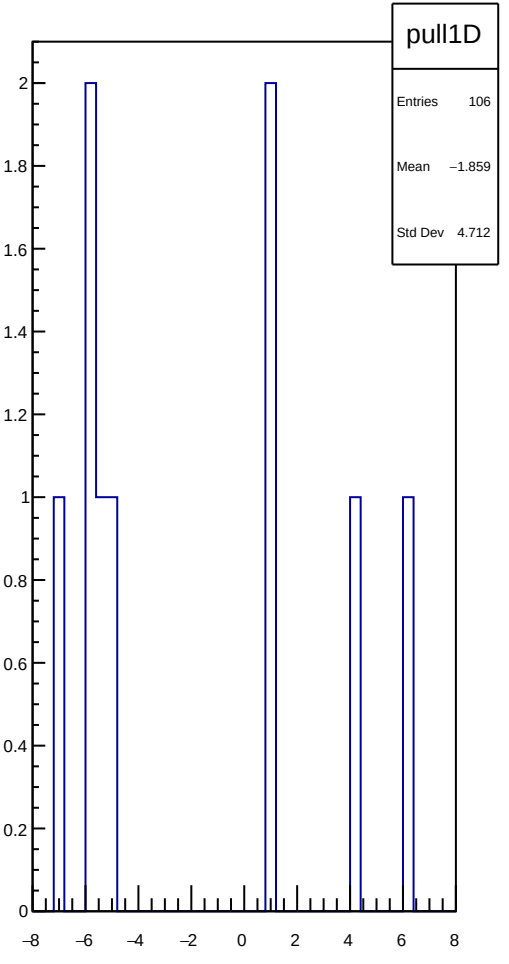

yield_bpm2i01WS_rms vs run
χ² / ndf 3558 / 105
p0 312.5 ± 0.2199
360
350
340
330
320
310
300
290
280

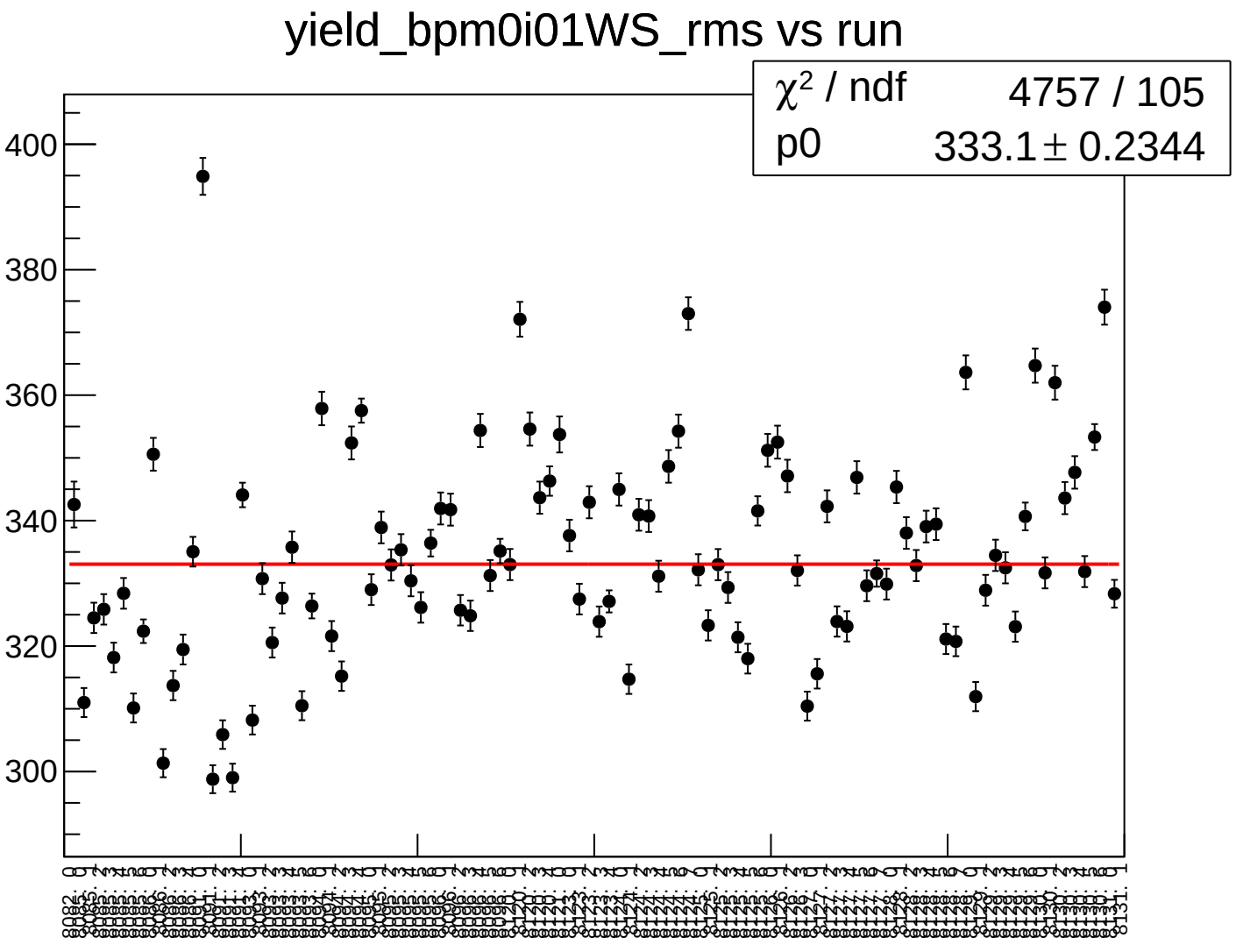

yield_bpm0i07WS_mean vs run
χ² / ndf 2.593e+06 / 105
p0 −1.373e+04 ± 0.02343
−13680
−13700
−13720
−13740
−13760
−13780
−13800
pull
Entries 106
Mean 1010
Std Dev 0
300
200
100
0
−100
−200
−300

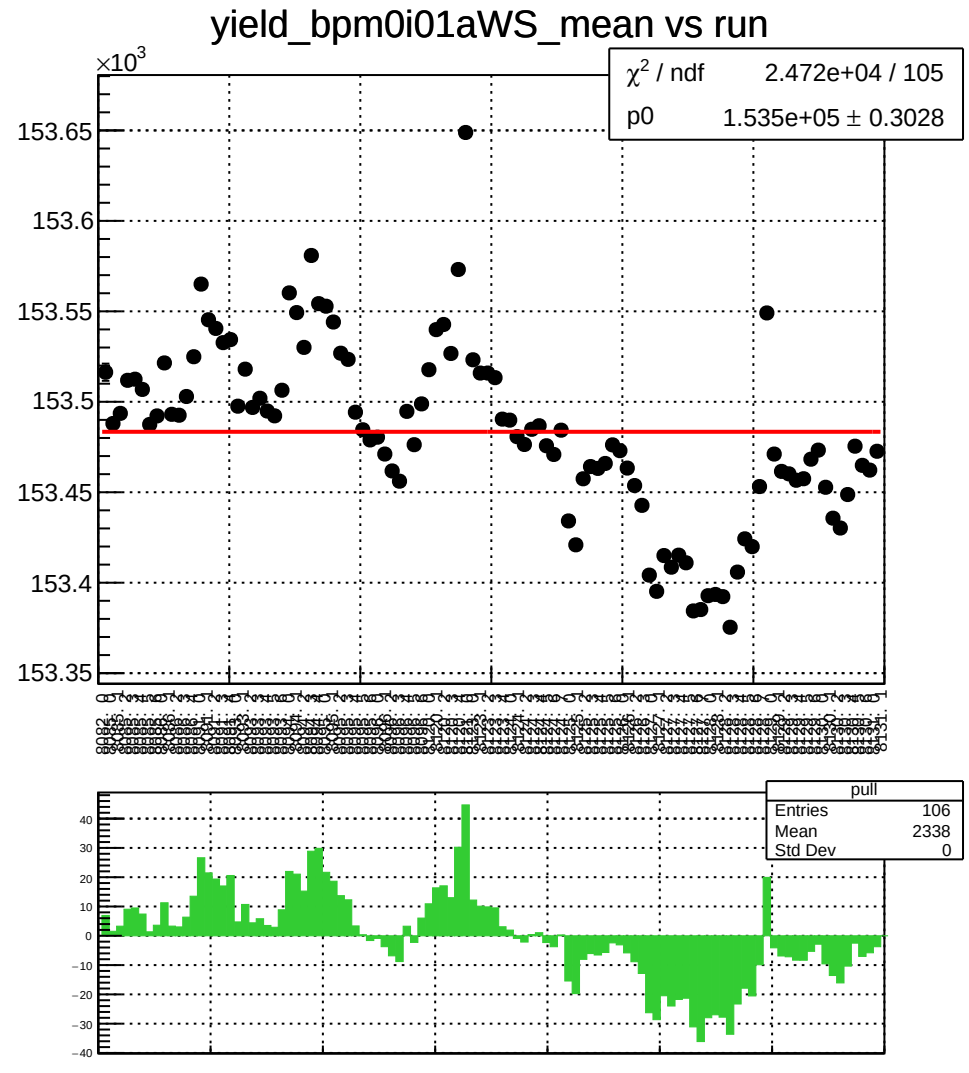

pull1D
Entries 106
Mean −1.607
Std Dev 1.968
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

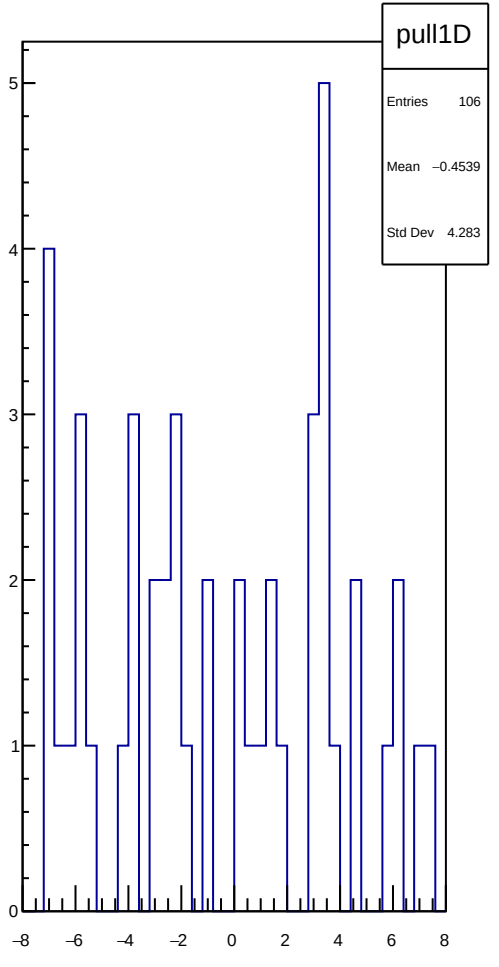

yield_bpm0i07WS_rms vs run
χ² / ndf 3.255e+04 / 105
p0 23.38 ± 0.01657
34
32
30
28
26
24
22
20
18
16

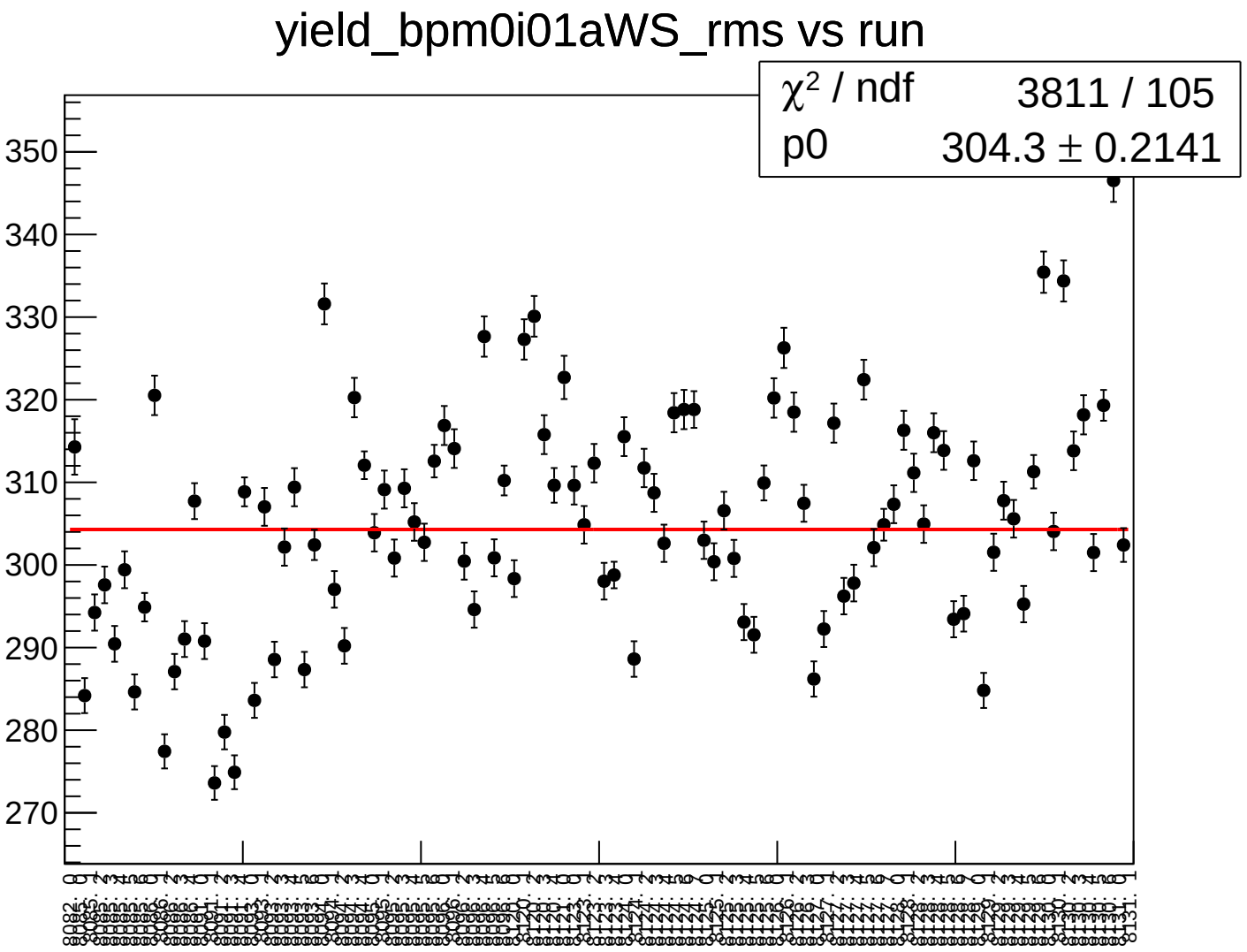

yield_bpm0i01WS_mean vs run
×10^3
χ² / ndf 1.935e+05 / 105
p0 1.606e+05 ± 0.3315
161
160.9
160.8
160.7
160.6
160.5
160.4
160.3
pull
Entries 106
Mean 1975
Std Dev 0
100
80
60
40
20
0
−20
−40
−60
−80

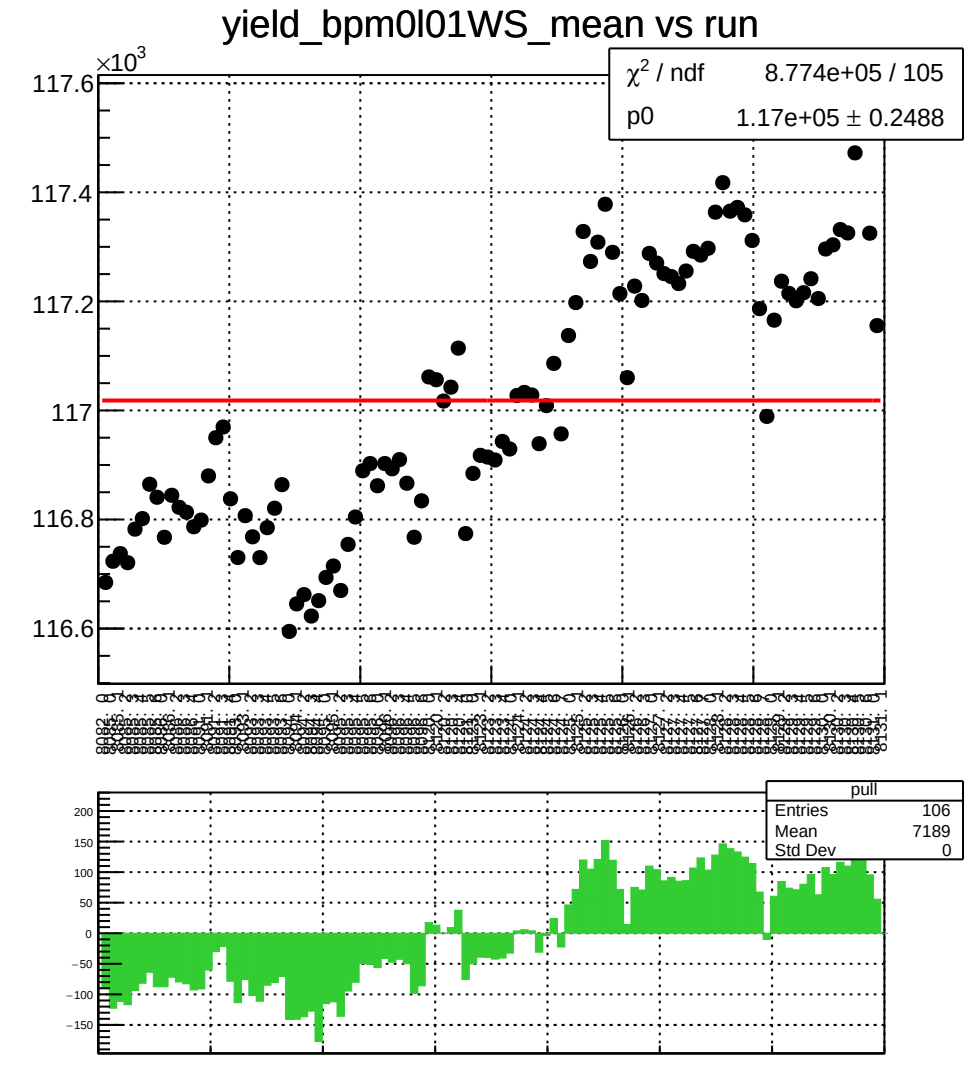

pull1D
Entries 106
Mean −1.859
Std Dev 4.712
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

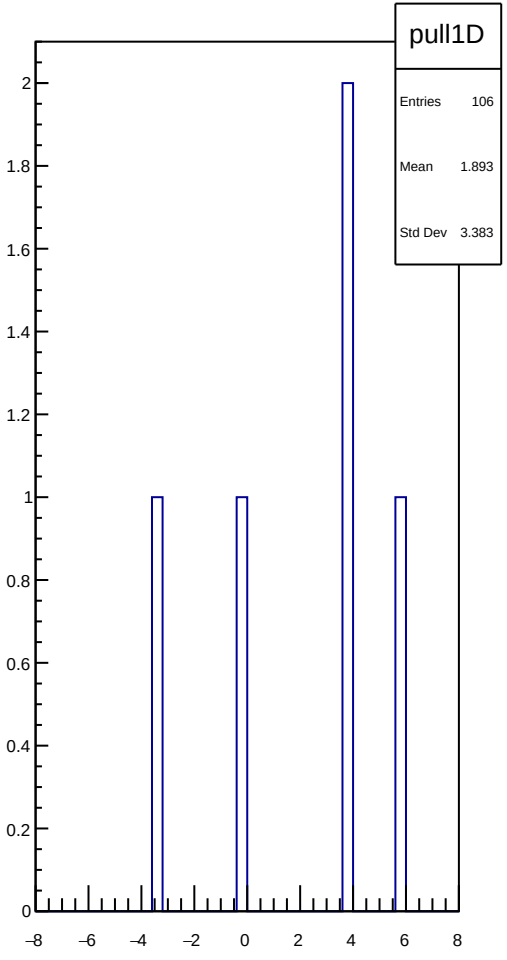

yield_bpm0i01WS_rms vs run
χ² / ndf 4757 / 105
p0 333.1 ± 0.2344
400
380
360
340
320
300

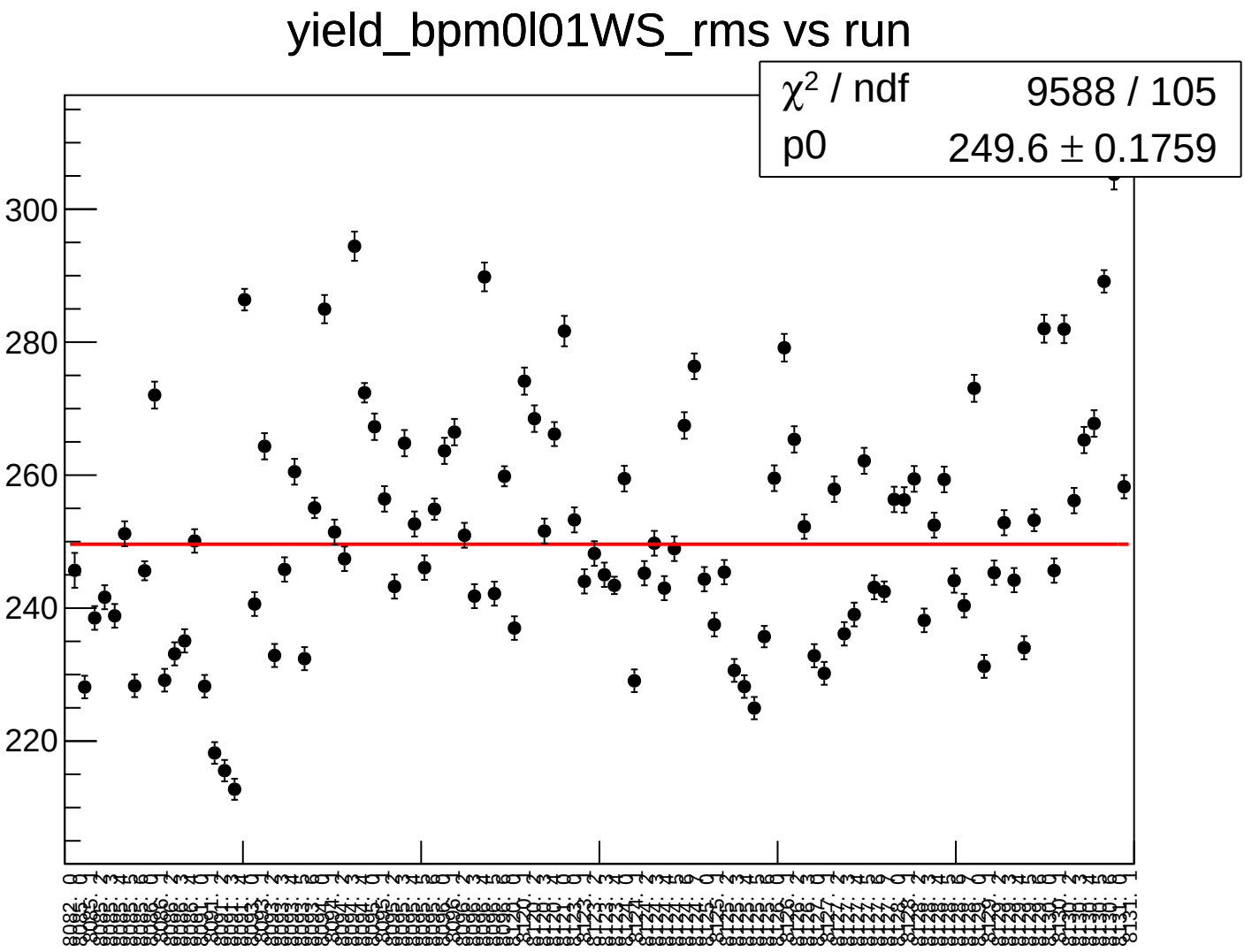

yield_bpm0i01aWS_mean vs run
×10^3
χ² / ndf 2.472e+04 / 105
p0 1.535e+05 ± 0.3028
153.65
153.6
153.55
153.5
153.45
153.4
153.35
pull
Entries 106
Mean 2338
Std Dev 0
40
30
20
10
0
−10
−20
−30
−40

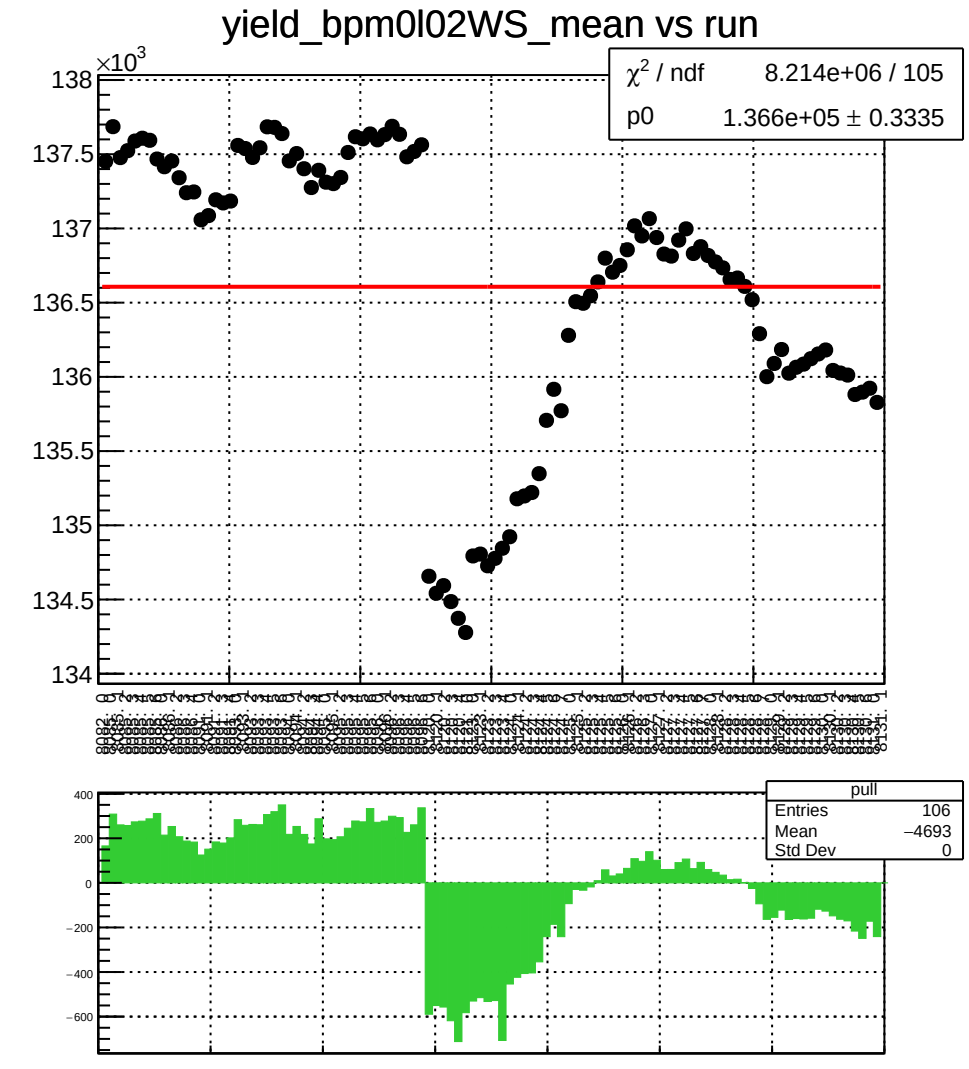

pull1D
Entries 106
Mean −0.4539
Std Dev 4.283
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

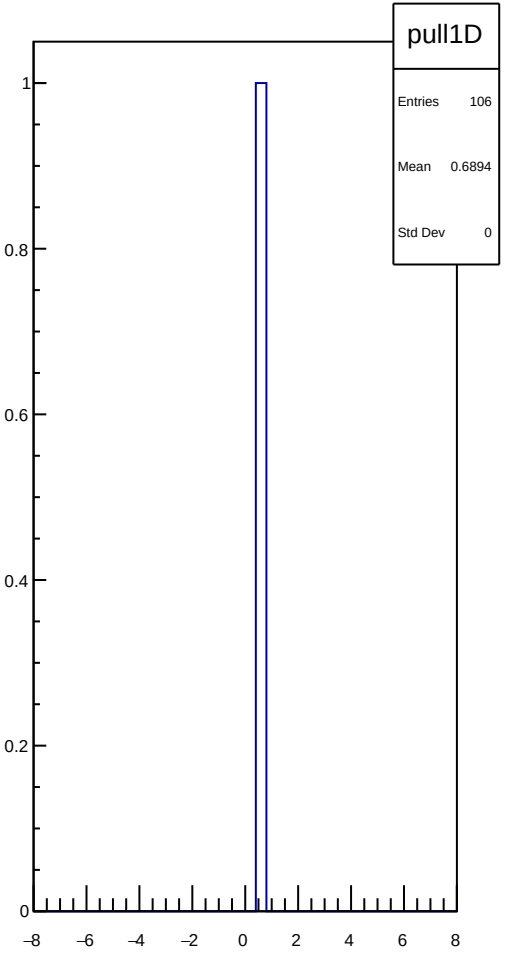

yield_bpm0i01aWS_rms vs run
χ² / ndf 3811 / 105
p0 304.3 ± 0.2141
350
340
330
320
310
300
290
280
270

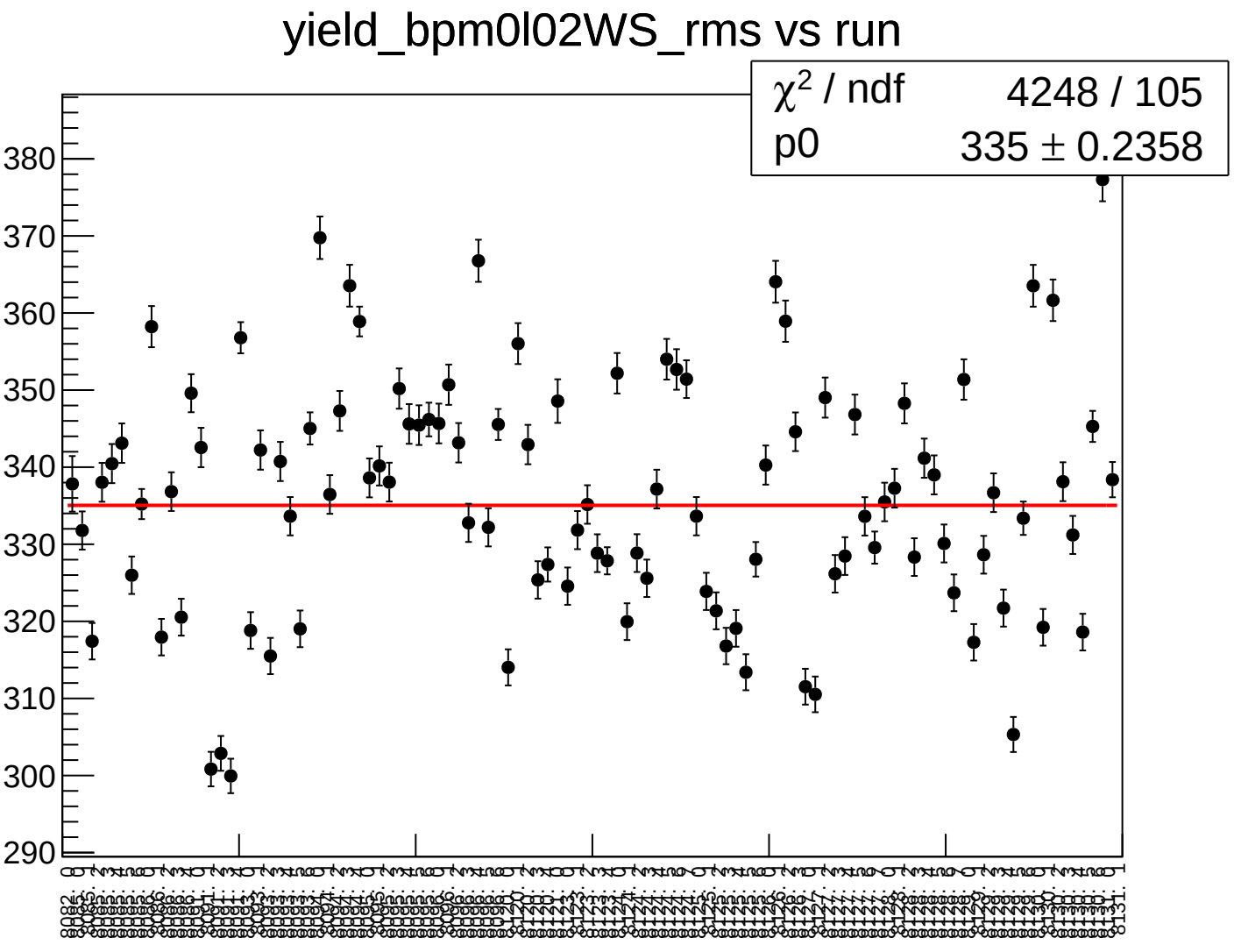

yield_bpm0l01WS_mean vs run
×10^3
χ^2 / ndf 8.774e+05 / 105
p0 1.17e+05 ± 0.2488
117.6
117.4
117.2
117
116.8
116.6
pull
Entries 106
Mean 7189
Std Dev 0
200
150
100
50
0
−50
−100
−150

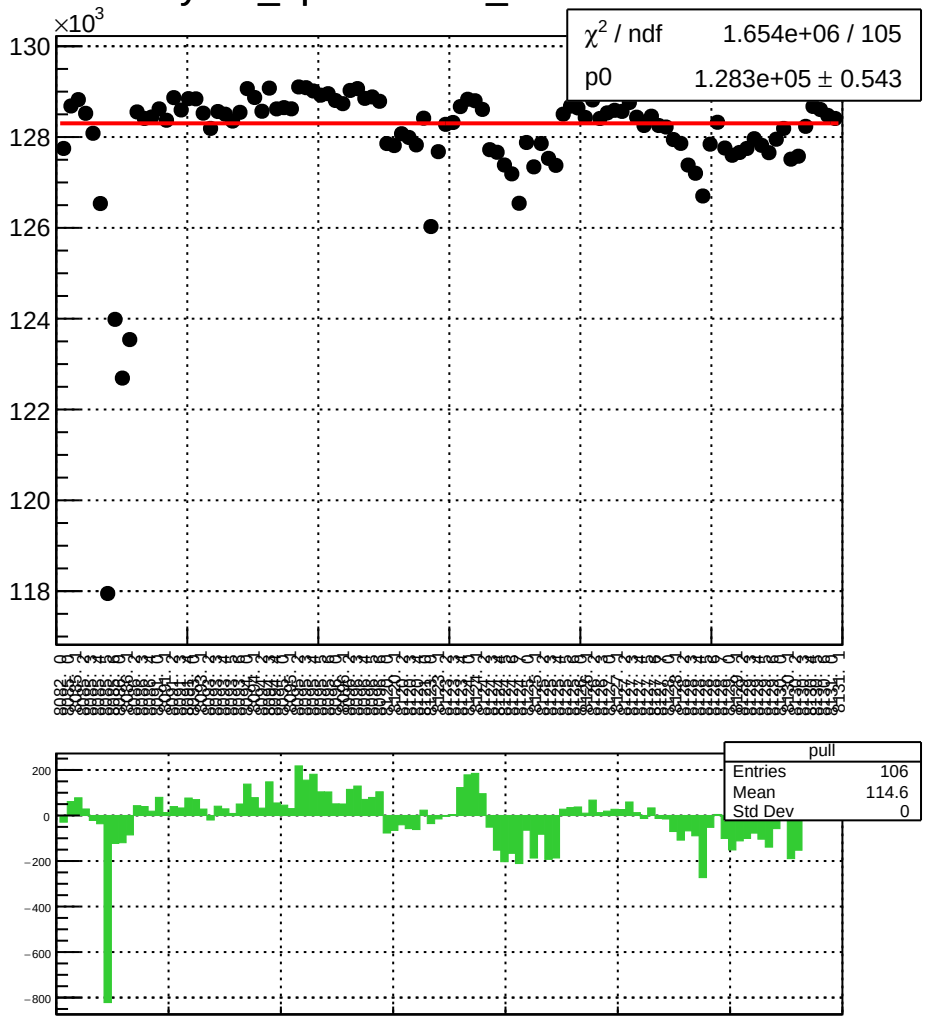

pull1D
Entries 106
Mean 1.893
Std Dev 3.383
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

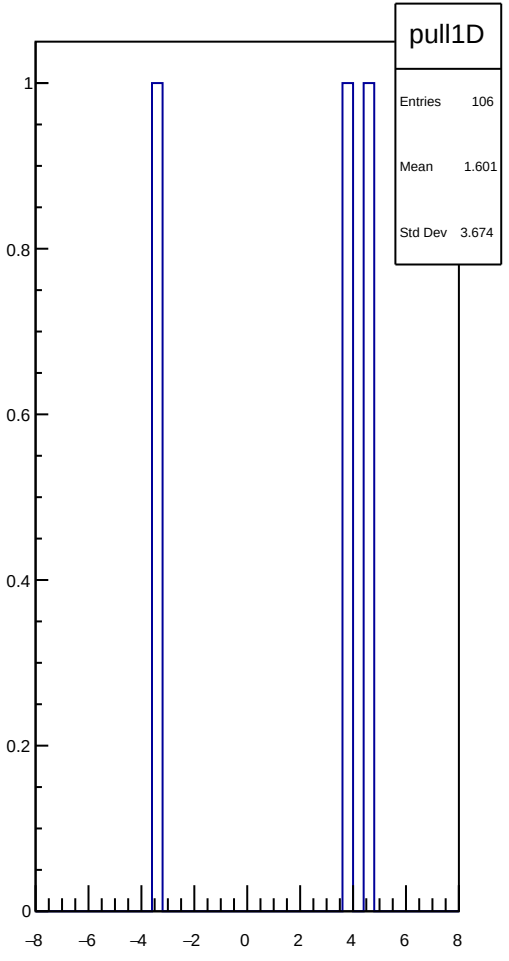

yield_bpm0l01WS_rms vs run
χ² / ndf 9588 / 105
p0 249.6 ± 0.1759
300
280
260
240
220

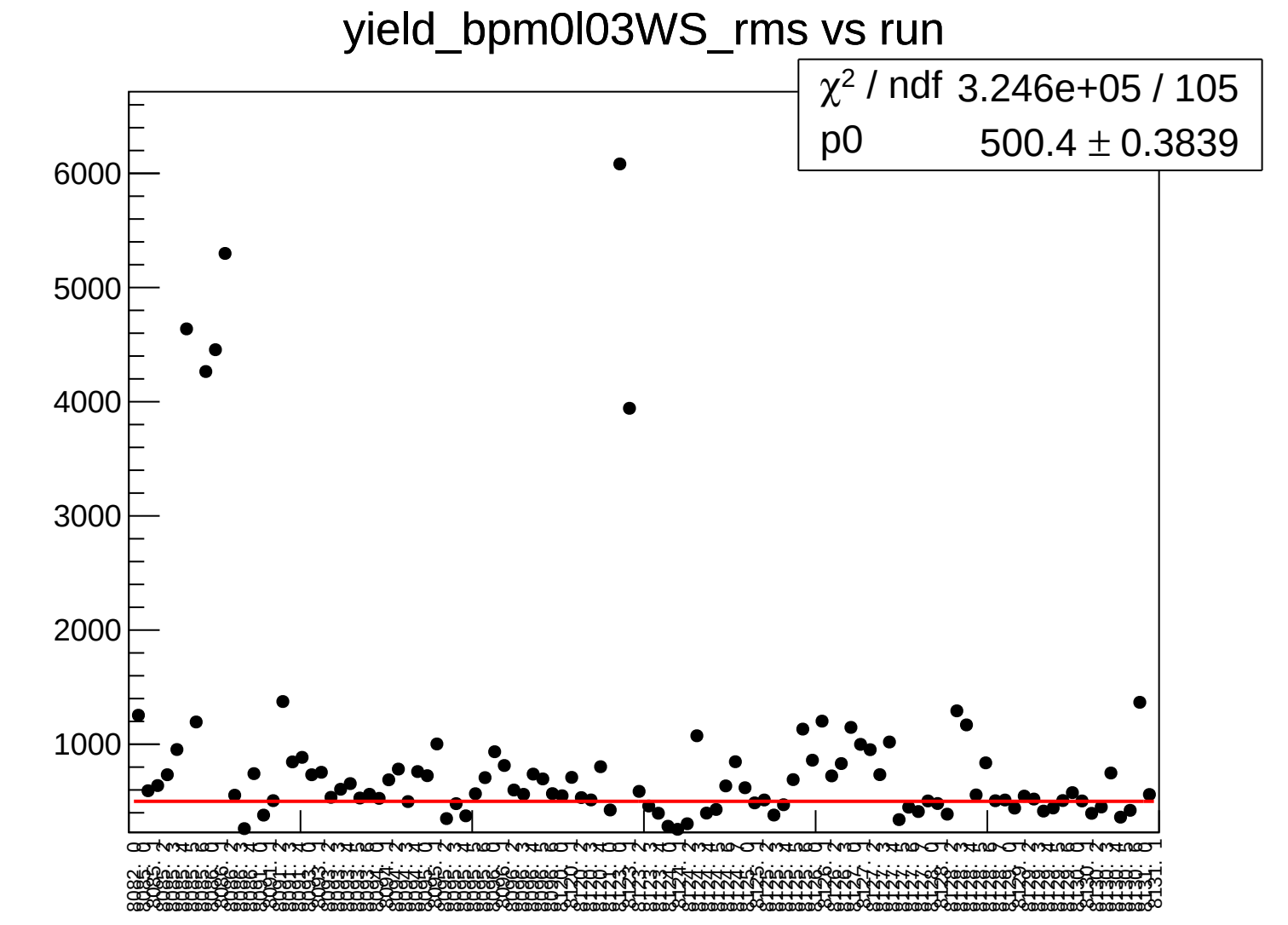

yield_bpm0l02WS_mean vs run
×10^3
138
137.5
137
136.5
136
135.5
135
134.5
134
χ² / ndf 8.214e+06 / 105
p0 1.366e+05 ± 0.3335
pull
Entries 106
Mean −4693
Std Dev 0
400
200
0
−200
−400
−600

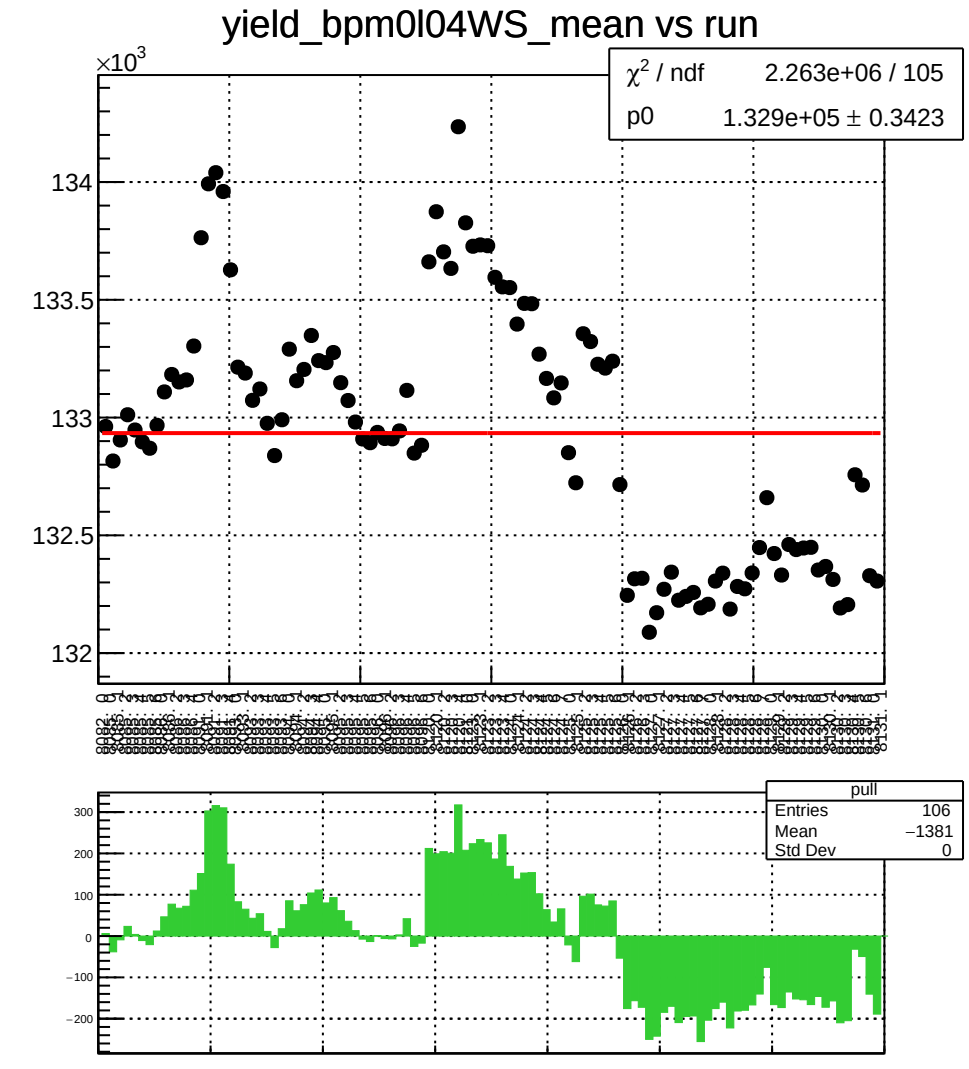

pull1D
Entries 106
Mean 0.6894
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

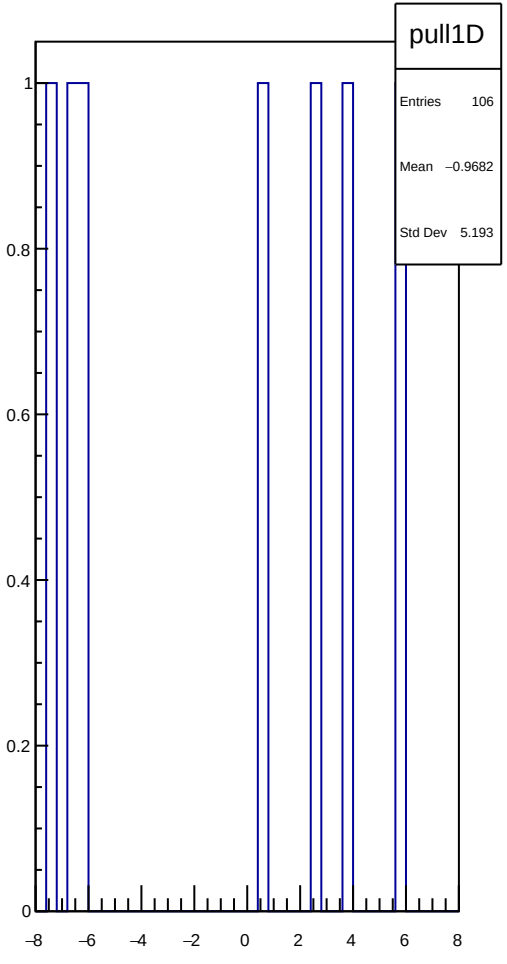

yield_bpm0l02WS_rms vs run
χ² / ndf 4248 / 105
p0 335 ± 0.2358
380
370
360
350
340
330
320
310
300
290

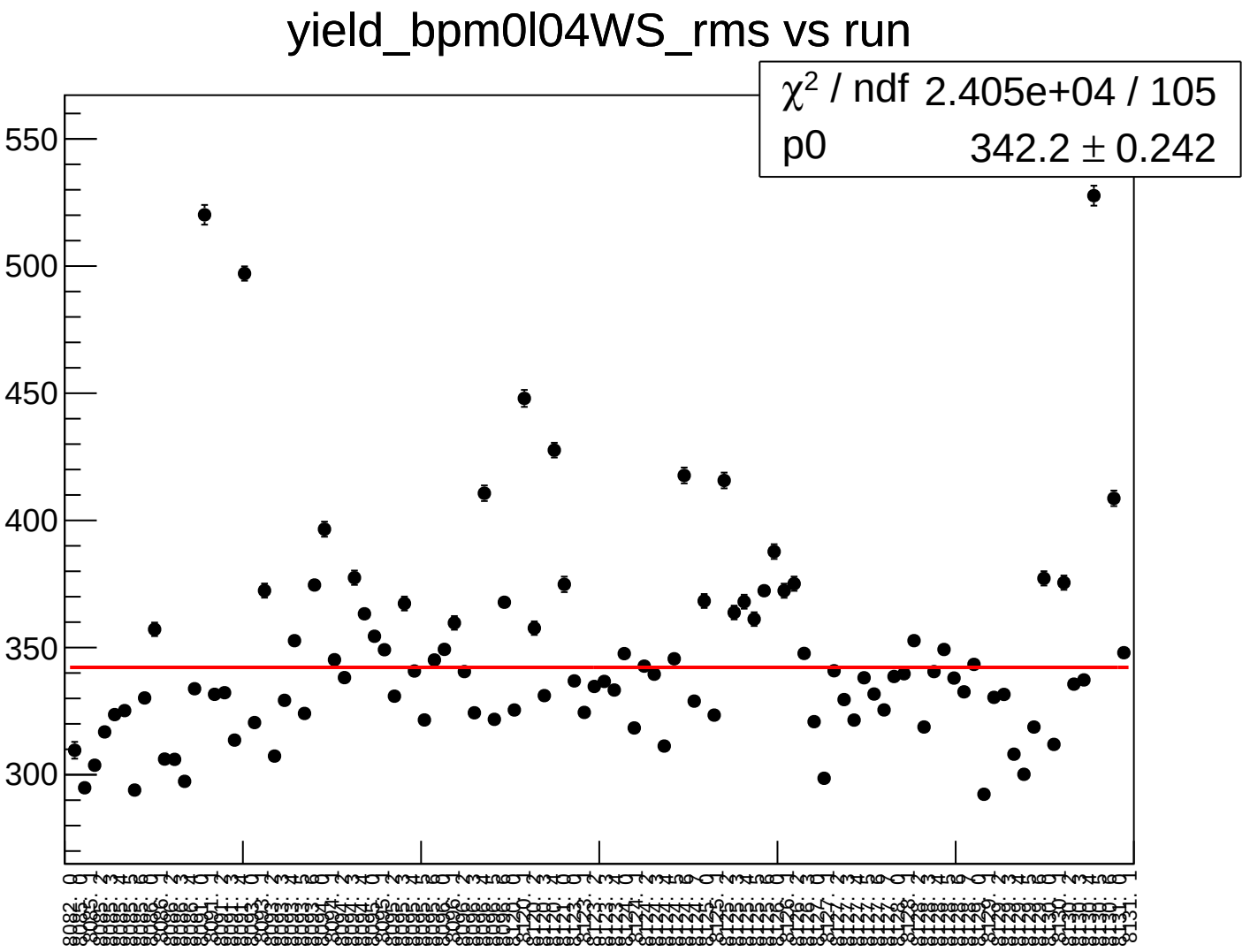

yield_bpm0l03WS_mean vs run
×10^3
130
128
126
124
122
120
118
χ² / ndf 1.654e+06 / 105
p0 1.283e+05 ± 0.543
pull
Entries 106
Mean 114.6
Std Dev 0
200
0
−200
−400
−600
−800

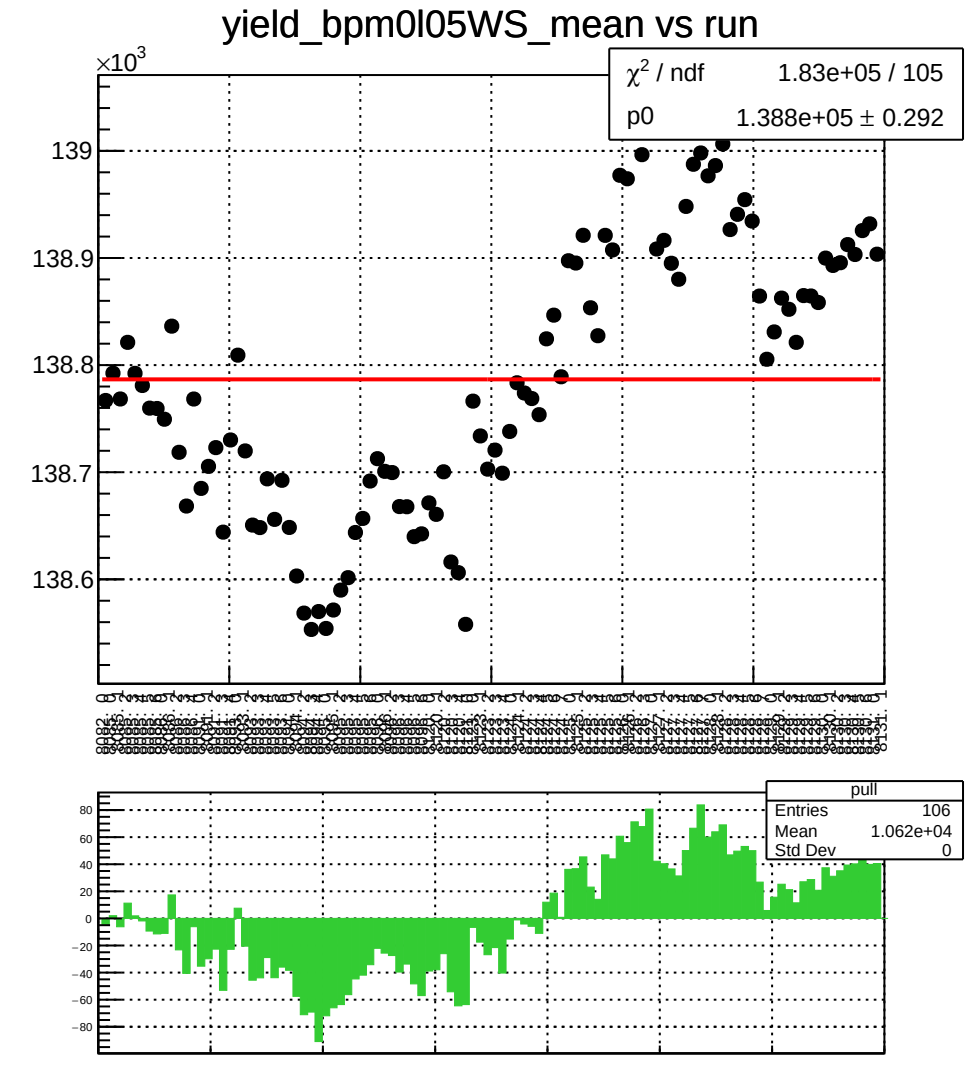

pull1D
Entries 106
Mean 1.601
Std Dev 3.674
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

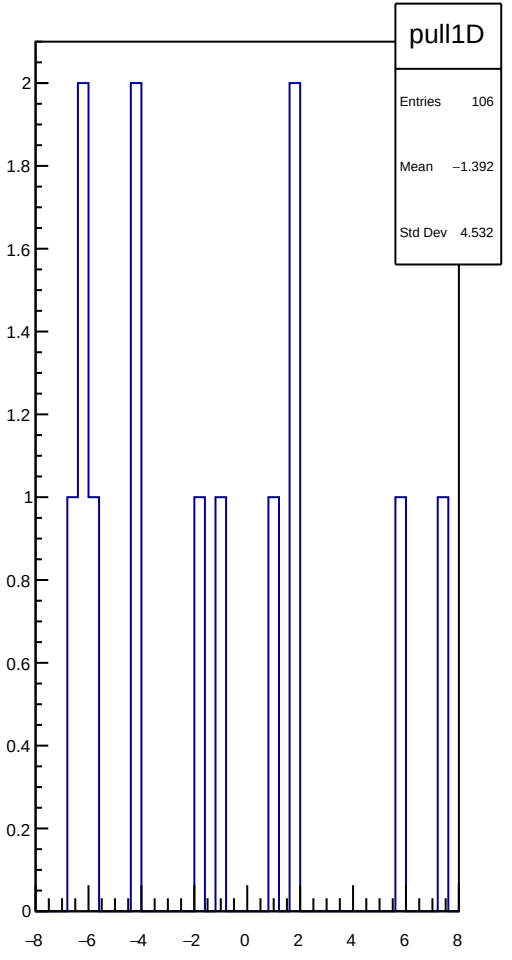

yield_bpm0l03WS_rms vs run
χ² / ndf 3.246e+05 / 105
p0 500.4 ± 0.3839
6000
5000
4000
3000
2000
1000

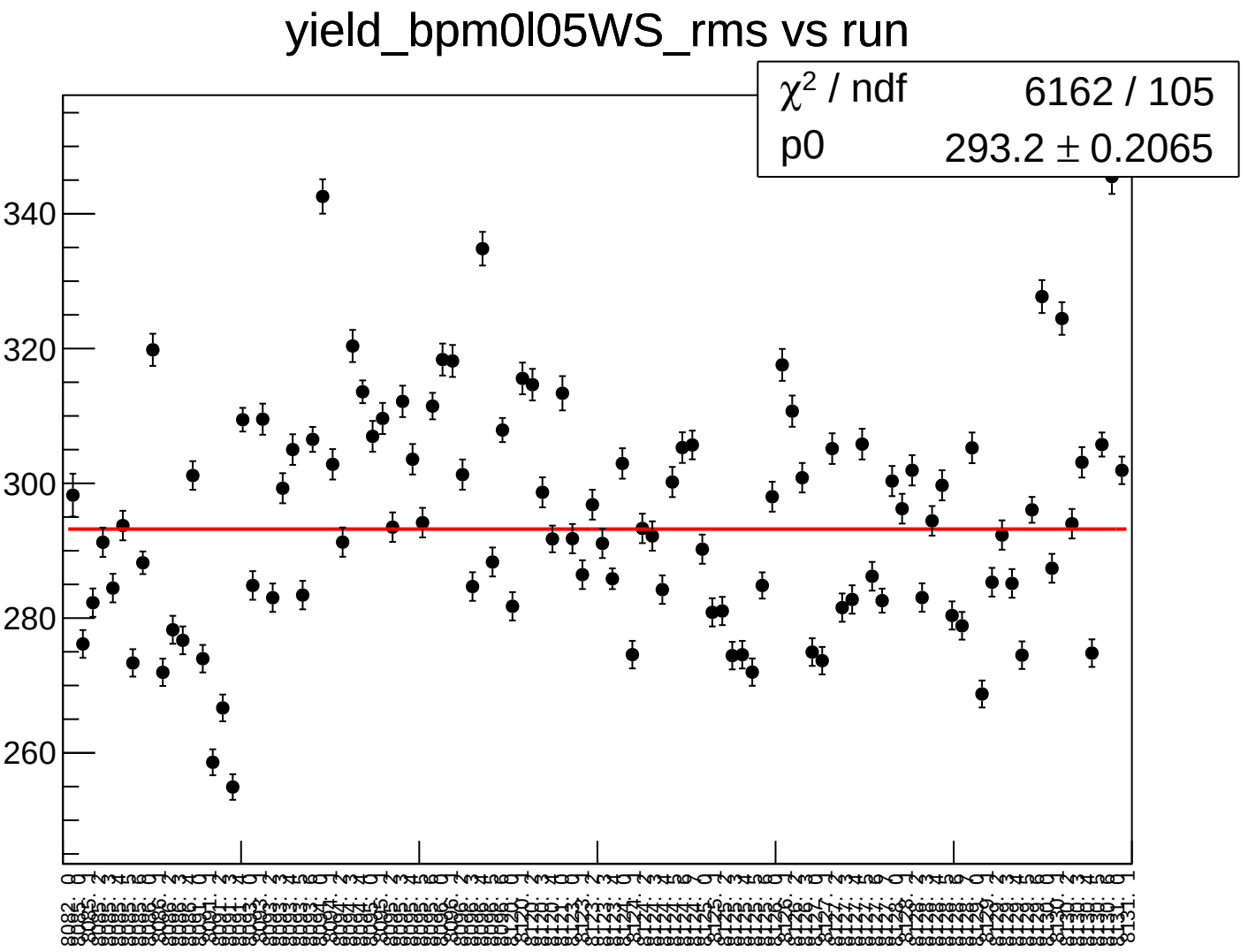

yield_bpm0l04WS_mean vs run
×10^3
χ² / ndf 2.263e+06 / 105
p0 1.329e+05 ± 0.3423
134
133.5
133
132.5
132
pull
Entries 106
Mean −1381
Std Dev 0
300
200
100
0
−100
−200

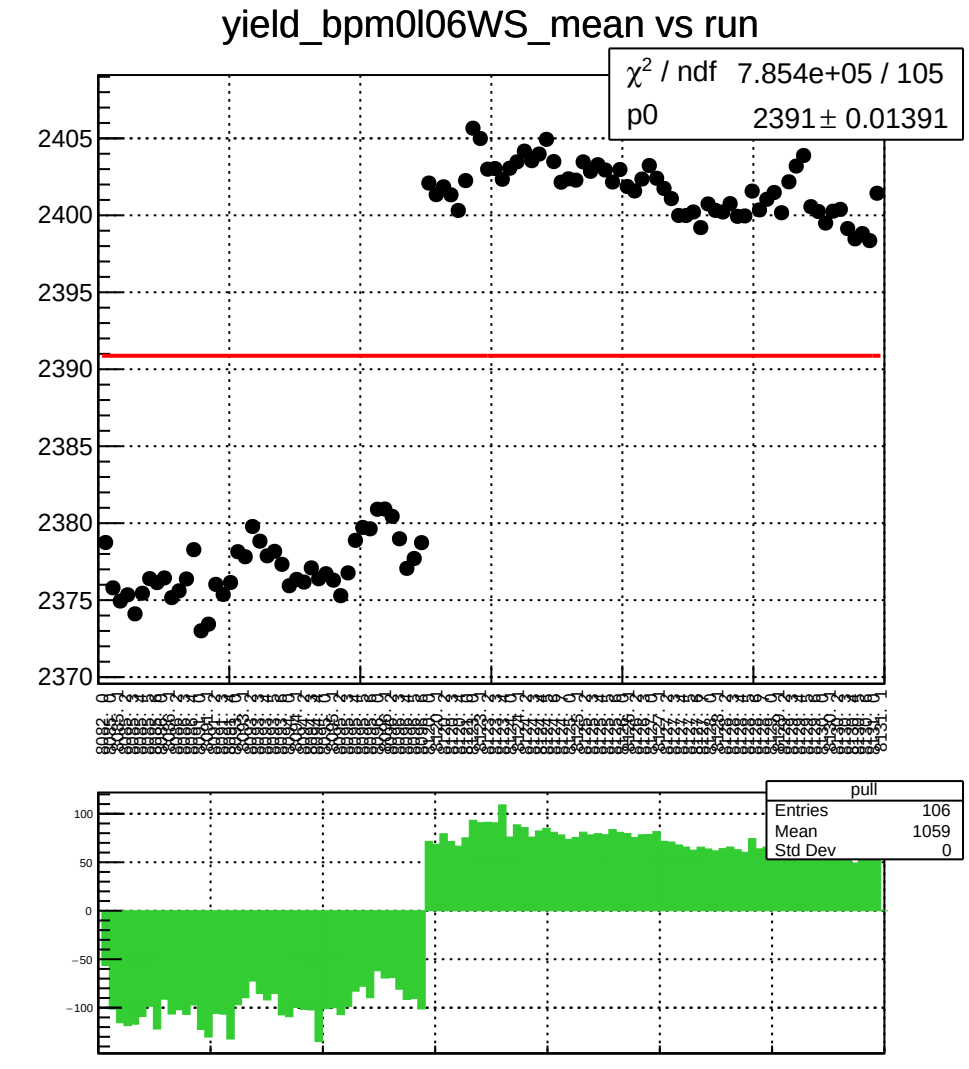

pull1D
Entries 106
Mean −0.9682
Std Dev 5.193
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

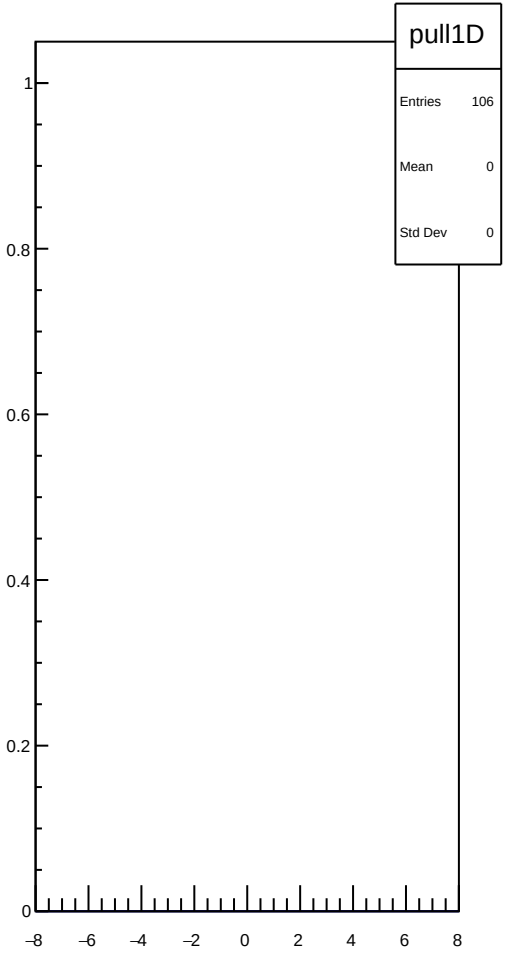

yield_bpm0l04WS_rms vs run
χ² / ndf 2.405e+04 / 105
p0 342.2 ± 0.242
550
500
450
400
350
300

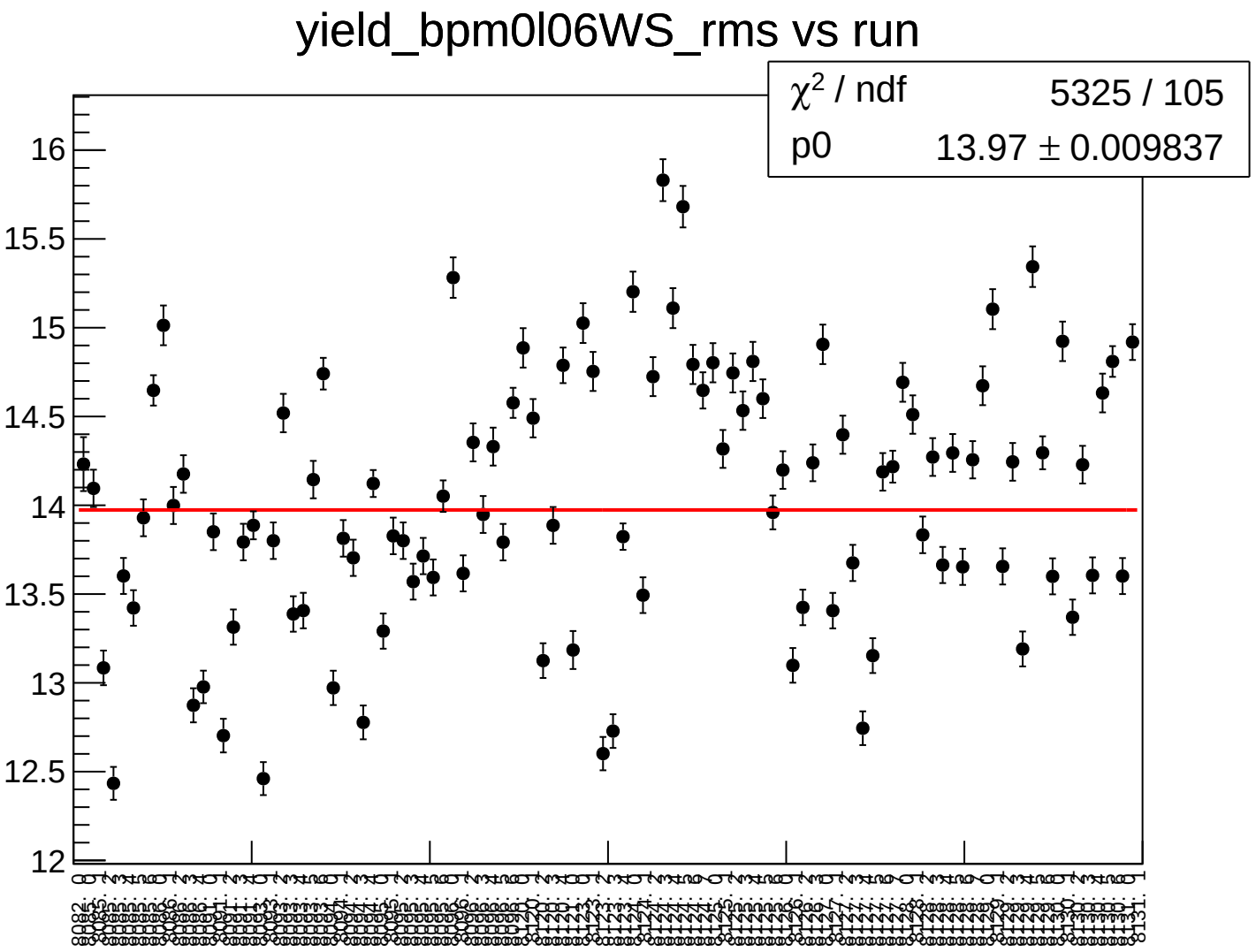

yield_bpm0l05WS_mean vs run
×10^3
χ² / ndf 1.83e+05 / 105
p0 1.388e+05 ± 0.292
139
138.9
138.8
138.7
138.6
pull
Entries 106
Mean 1.062e+04
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80

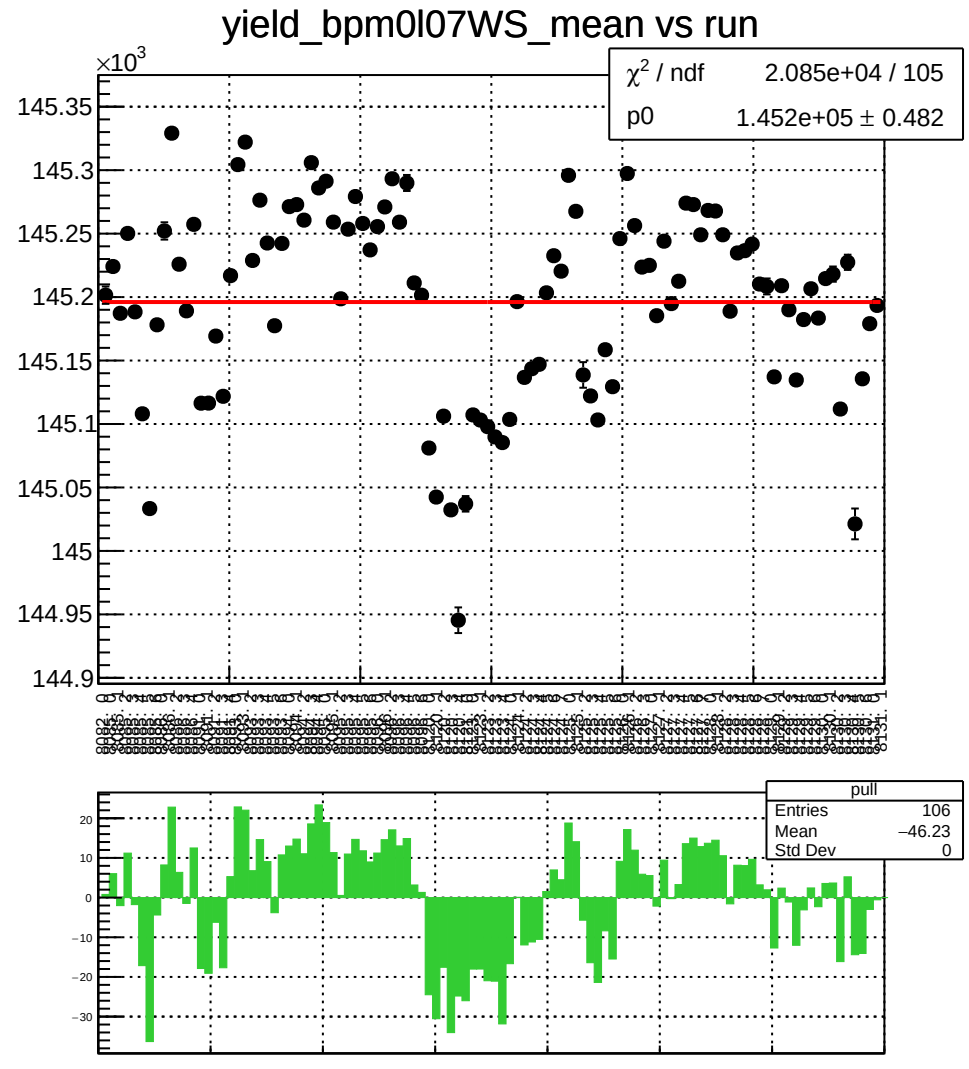

pull1D
Entries 106
Mean −1.392
Std Dev 4.532
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

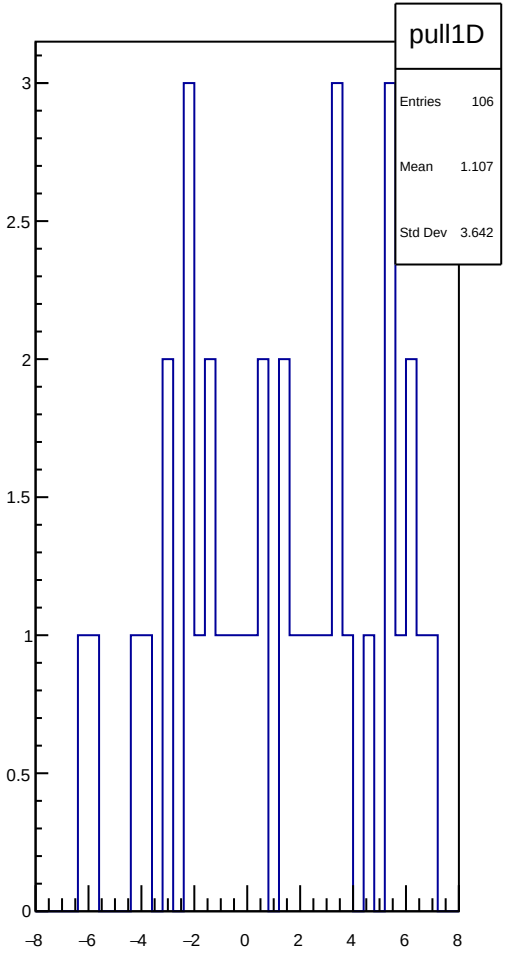

yield_bpm0l05WS_rms vs run
χ² / ndf 6162 / 105
p0 293.2 ± 0.2065
340
320
300
280
260

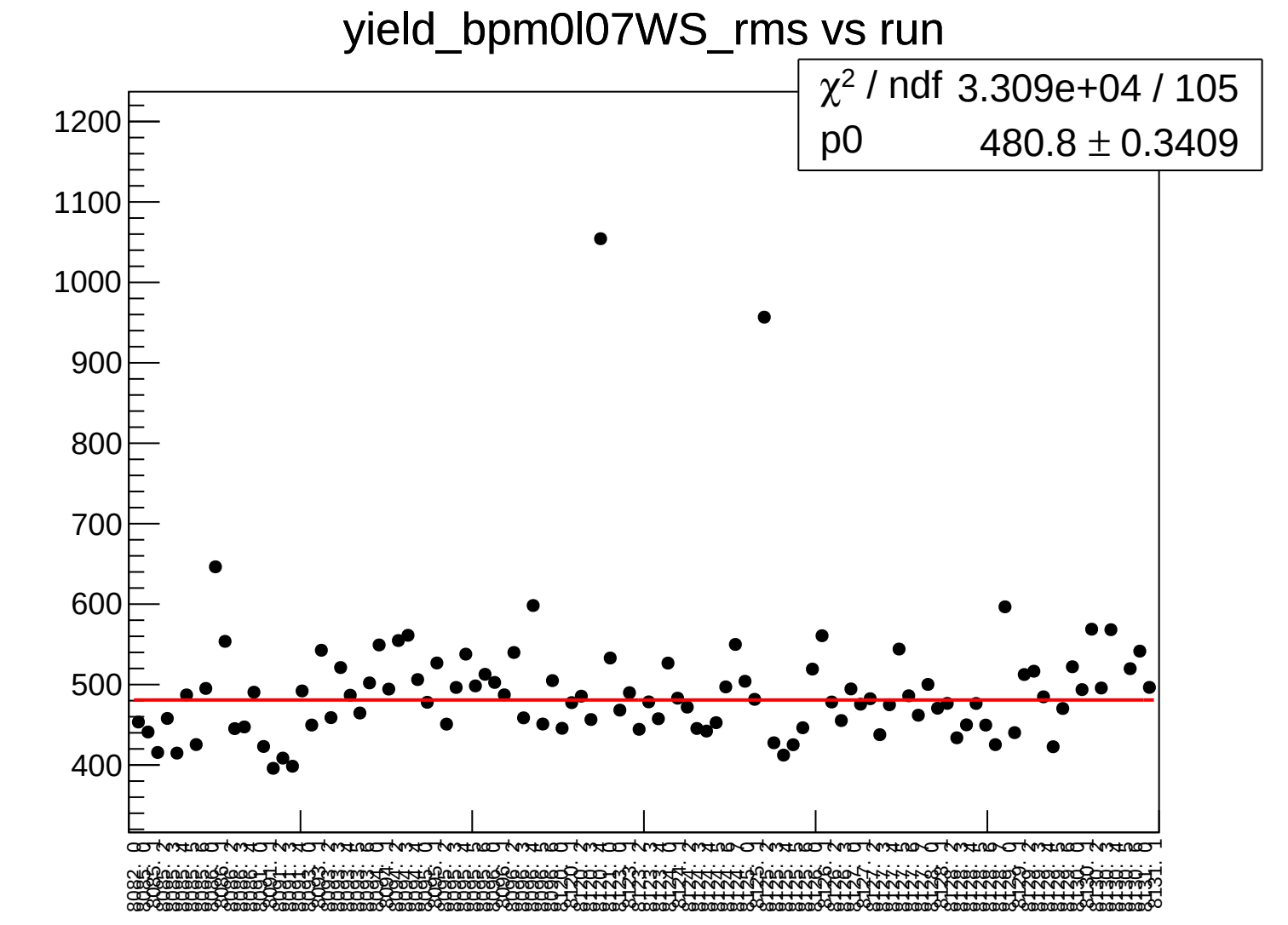

yield_bpm0l06WS_mean vs run
χ² / ndf 7.854e+05 / 105
p0 2391 ± 0.01391
2405
2400
2395
2390
2385
2380
2375
2370
pull
Entries 106
Mean 1059
Std Dev 0
100
50
0
−50
−100

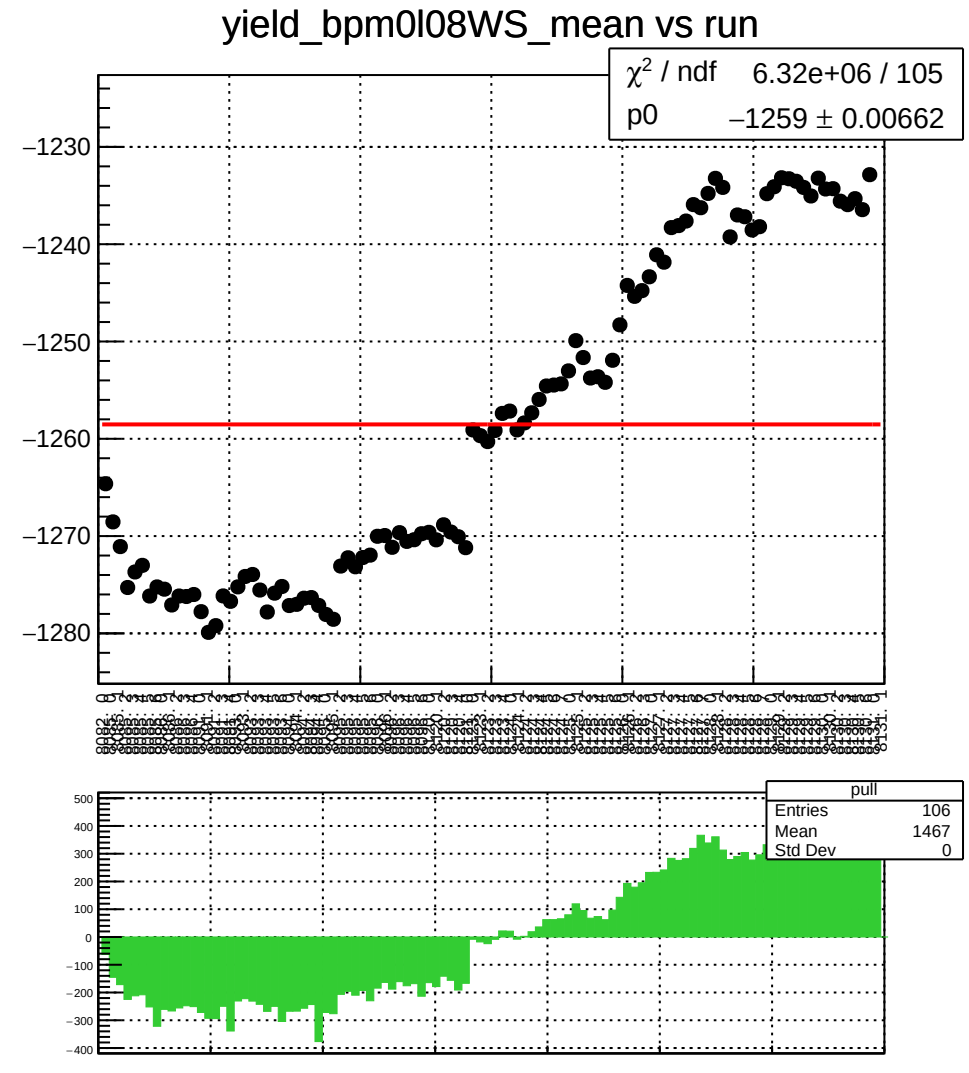

pull1D
Entries 106
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

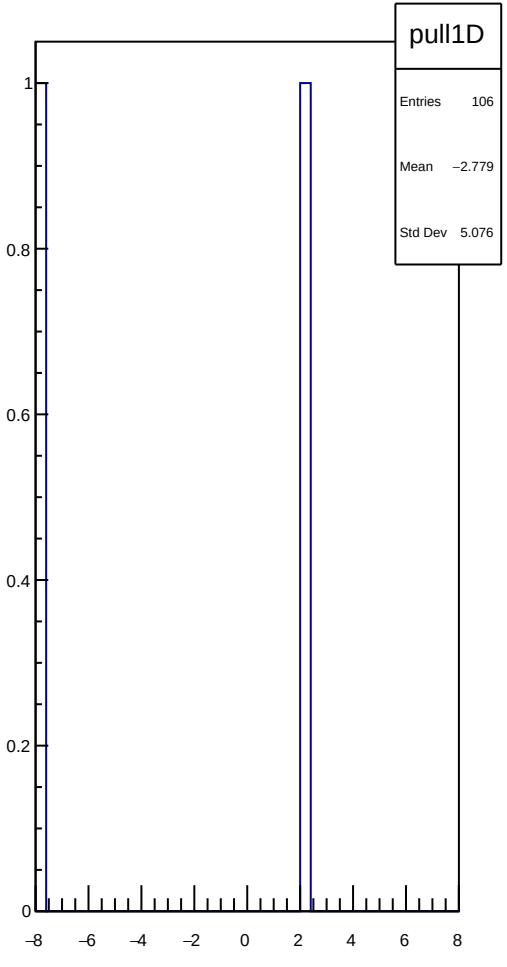

yield_bpm0l06WS_rms vs run
χ² / ndf 5325 / 105
p0 13.97 ± 0.009837
16
15.5
15
14.5
14
13.5
13
12.5
12

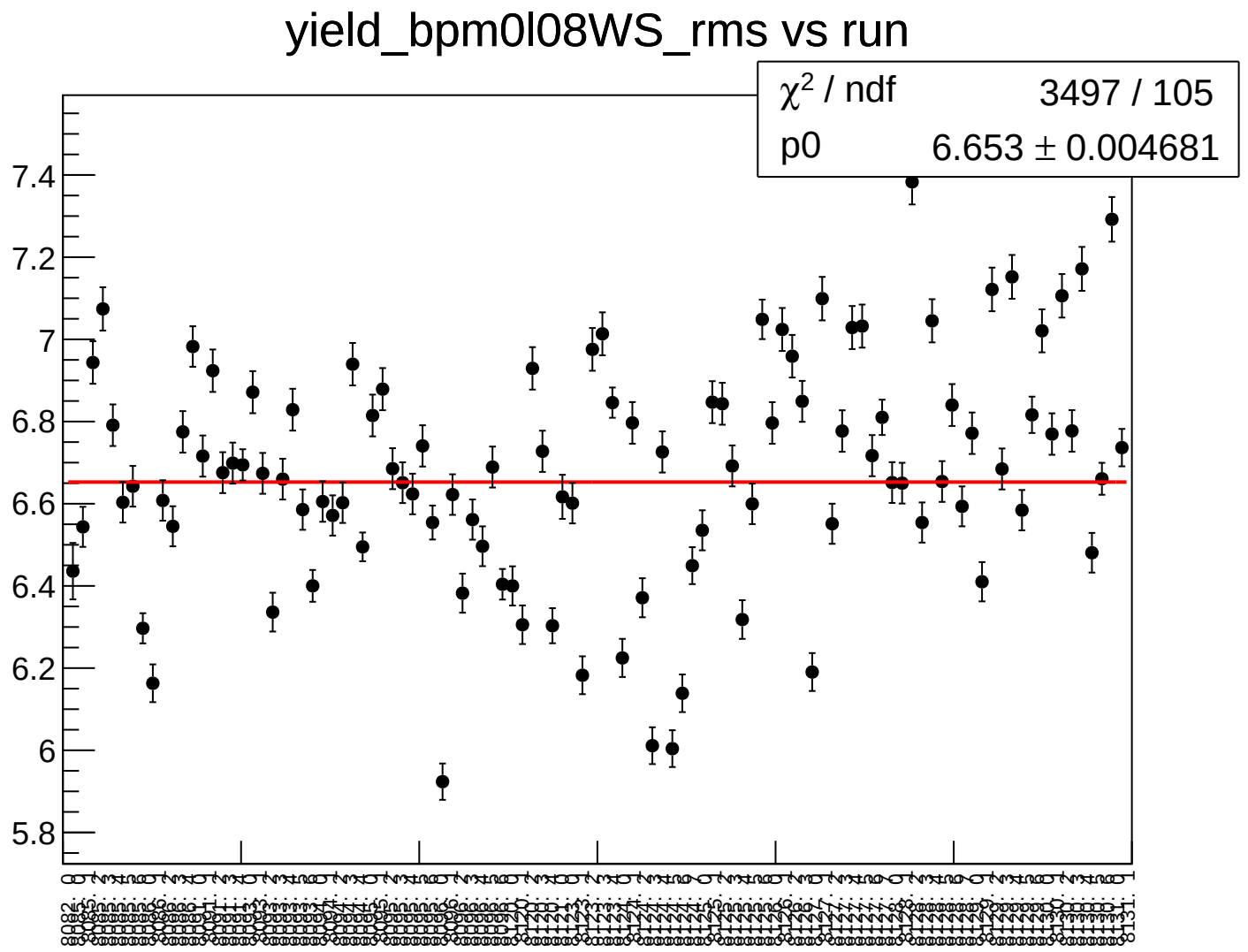

yield_bpm0l07WS_mean vs run
×10^3
χ² / ndf 2.085e+04 / 105
p0 1.452e+05 ± 0.482
145.35
145.3
145.25
145.2
145.15
145.1
145.05
145
144.95
144.9
pull
Entries 106
Mean −46.23
Std Dev 0
20
10
0
−10
−20
−30

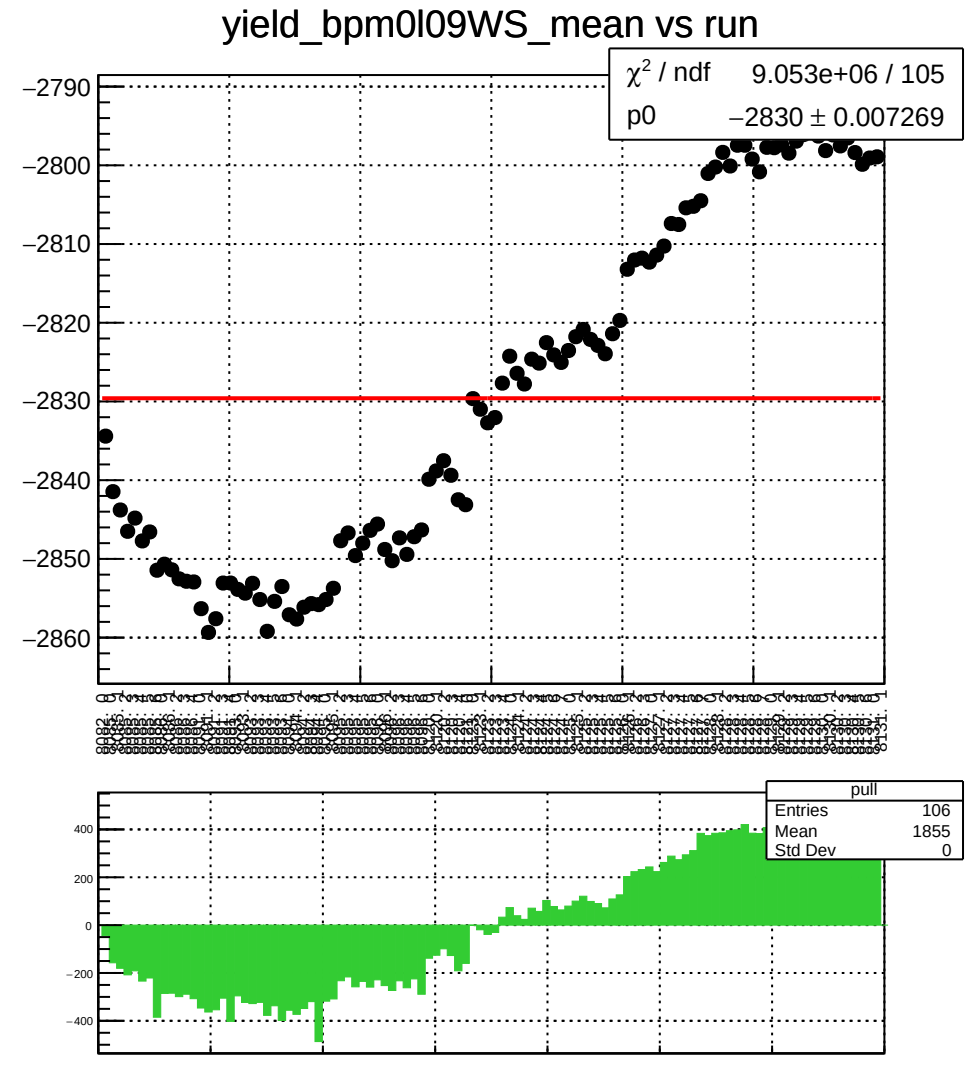

pull1D
Entries 106
Mean 1.107
Std Dev 3.642
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

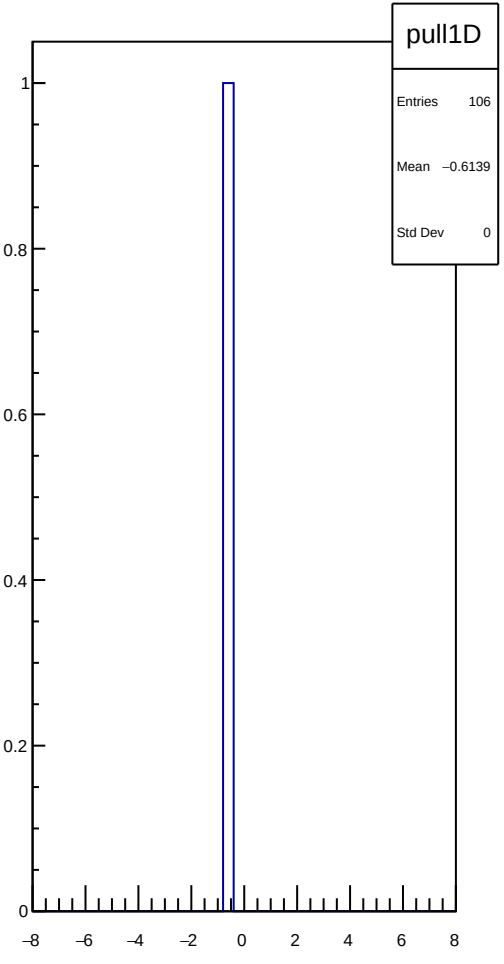

yield_bpm0l07WS_rms vs run
χ² / ndf 3.309e+04 / 105
p0 480.8 ± 0.3409
1200
1100
1000
900
800
700
600
500
400

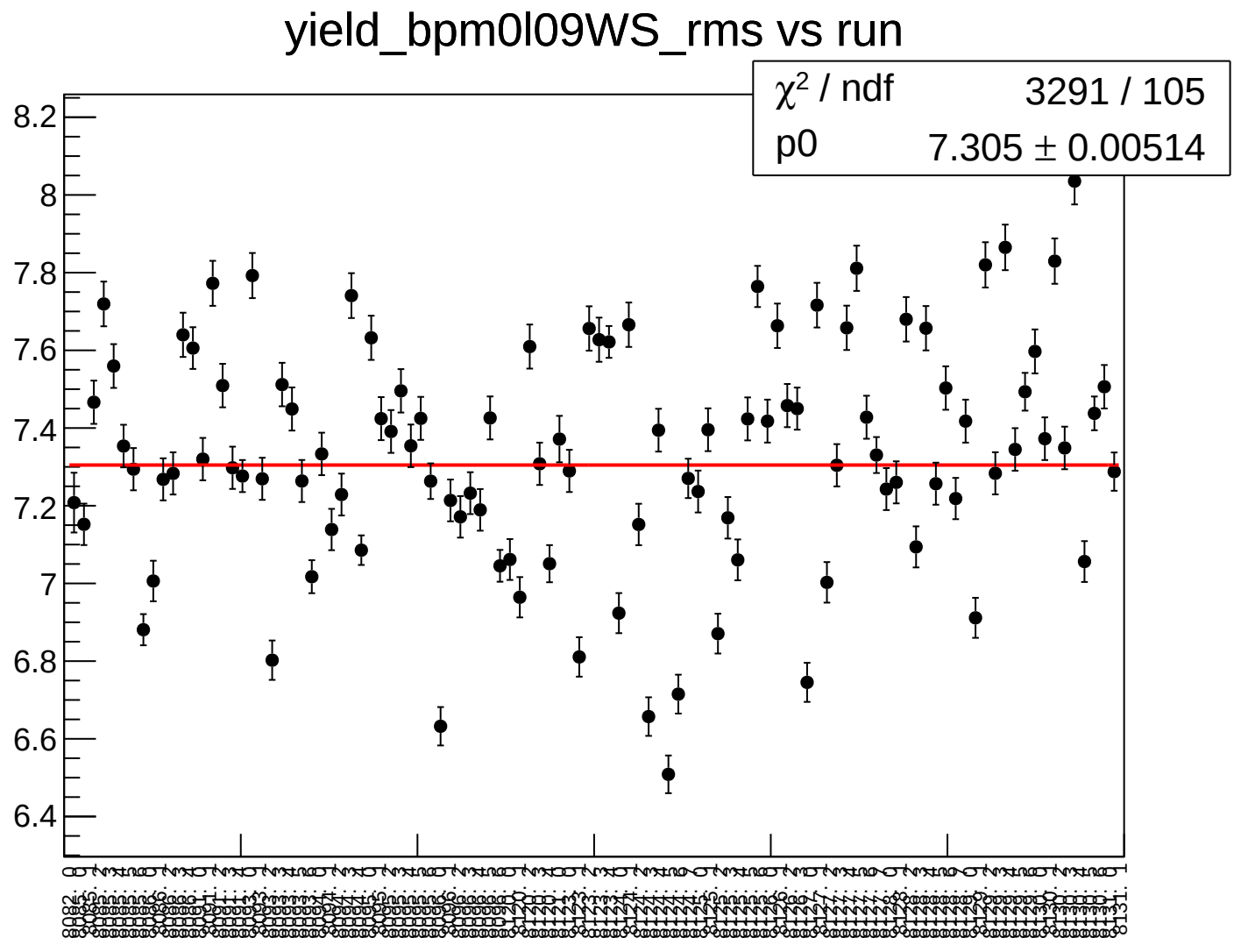

yield_bpm0l08WS_mean vs run
χ² / ndf 6.32e+06 / 105
p0 −1259 ± 0.00662
−1230
−1240
−1250
−1260
−1270
−1280
pull
Entries 106
Mean 1467
Std Dev 0
500
400
300
200
100
0
−100
−200
−300
−400

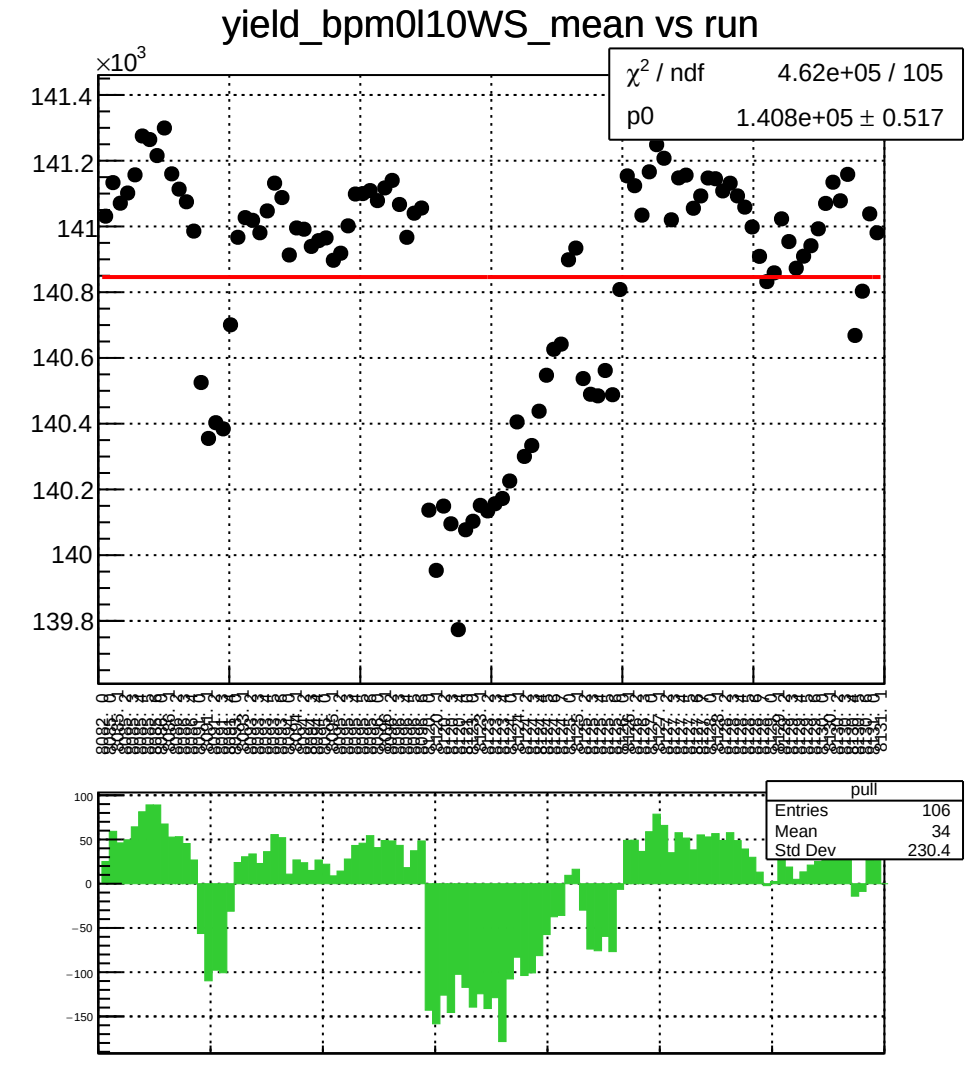

pull1D
Entries 106
Mean −2.779
Std Dev 5.076
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

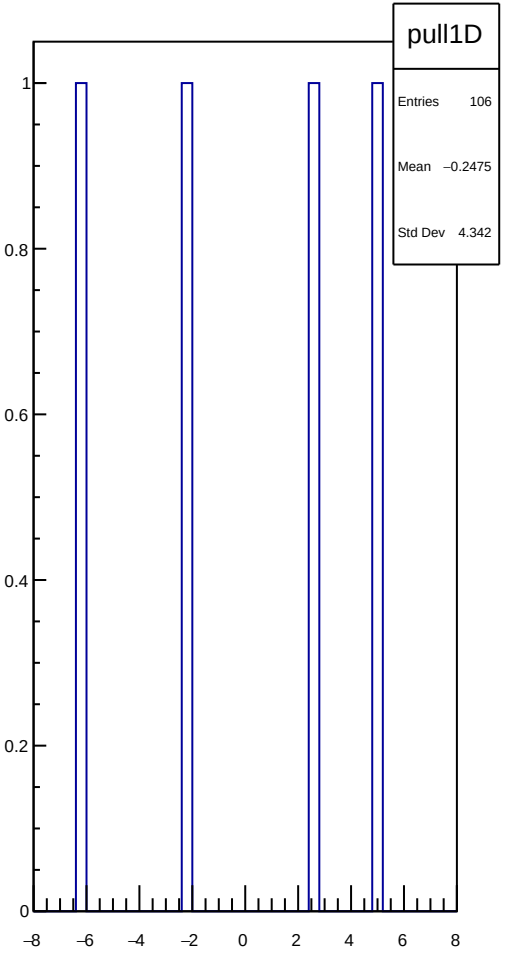

yield_bpm0l08WS_rms vs run
χ² / ndf 3497 / 105
p0 6.653 ± 0.004681
7.4
7.2
7
6.8
6.6
6.4
6.2
6
5.8

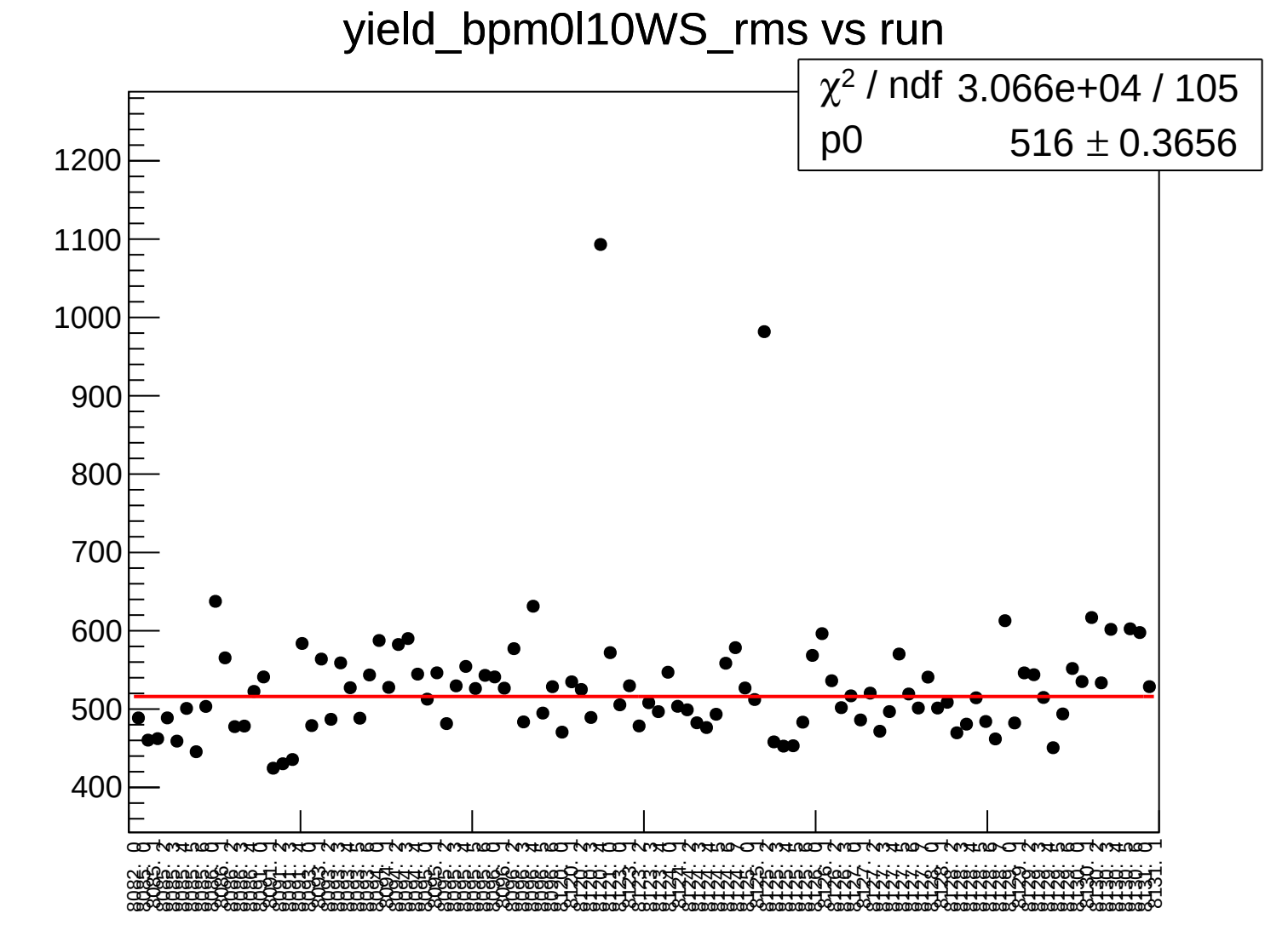

yield_bpm0l09WS_mean vs run
χ² / ndf 9.053e+06 / 105
p0 −2830 ± 0.007269
−2790
−2800
−2810
−2820
−2830
−2840
−2850
−2860
pull
Entries 106
Mean 1855
Std Dev 0
400
200
0
−200
−400

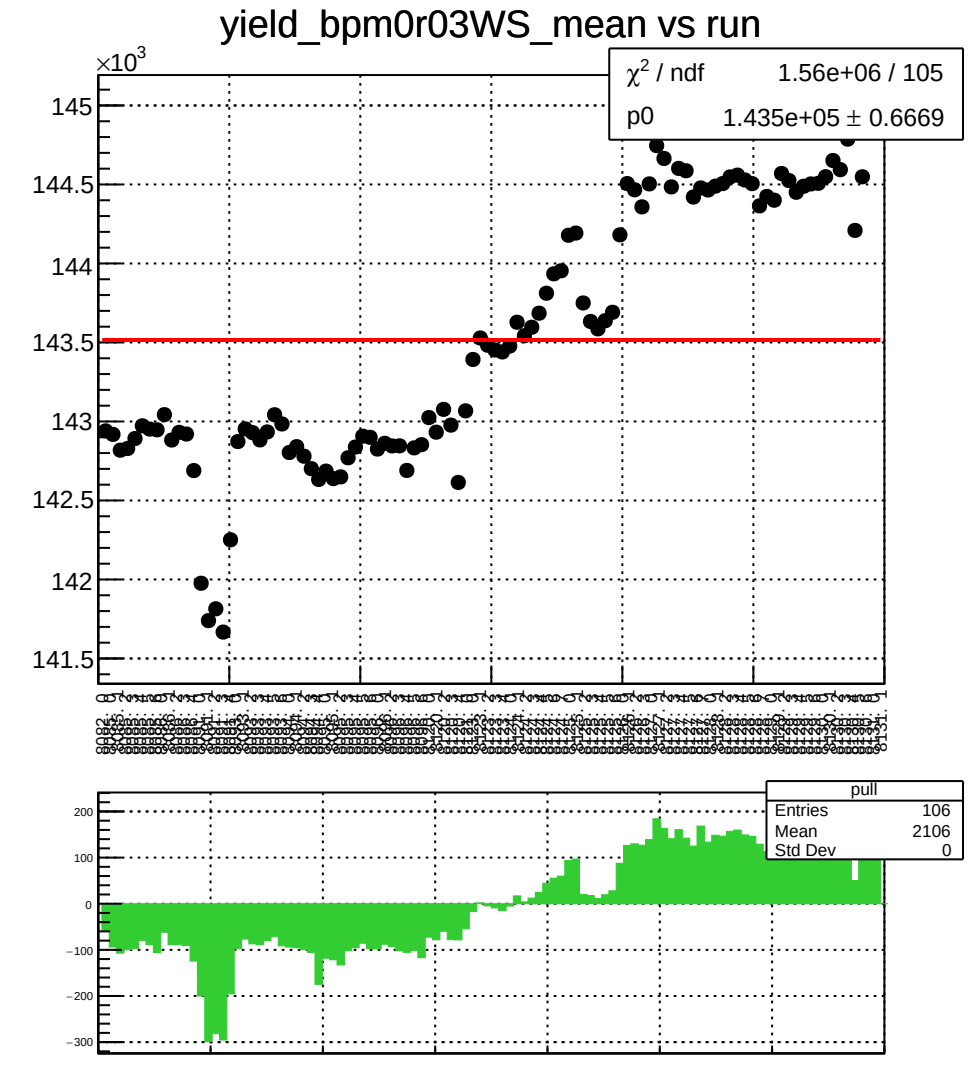

pull1D
Entries 106
Mean −0.6139
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

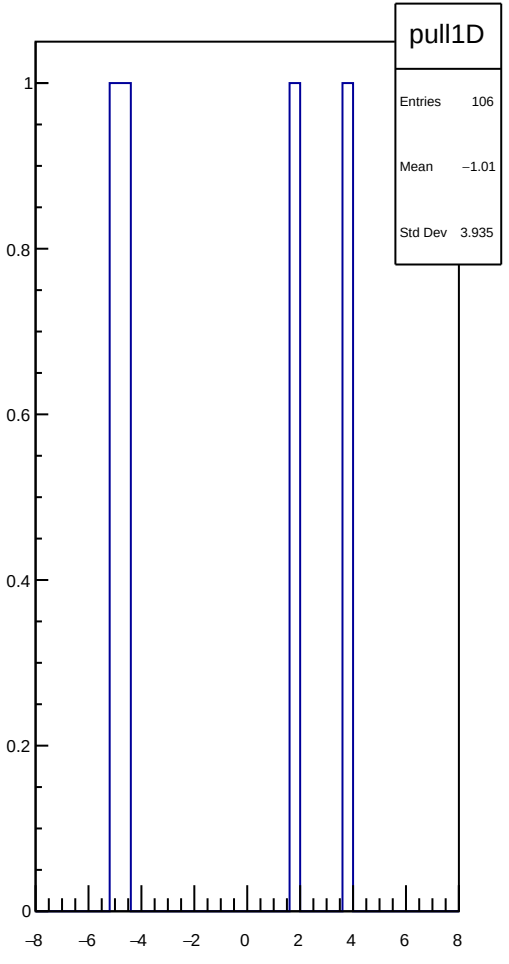

yield_bpm0l09WS_rms vs run
χ² / ndf 3291 / 105
p0 7.305 ± 0.00514
8.2
8
7.8
7.6
7.4
7.2
7
6.8
6.6
6.4

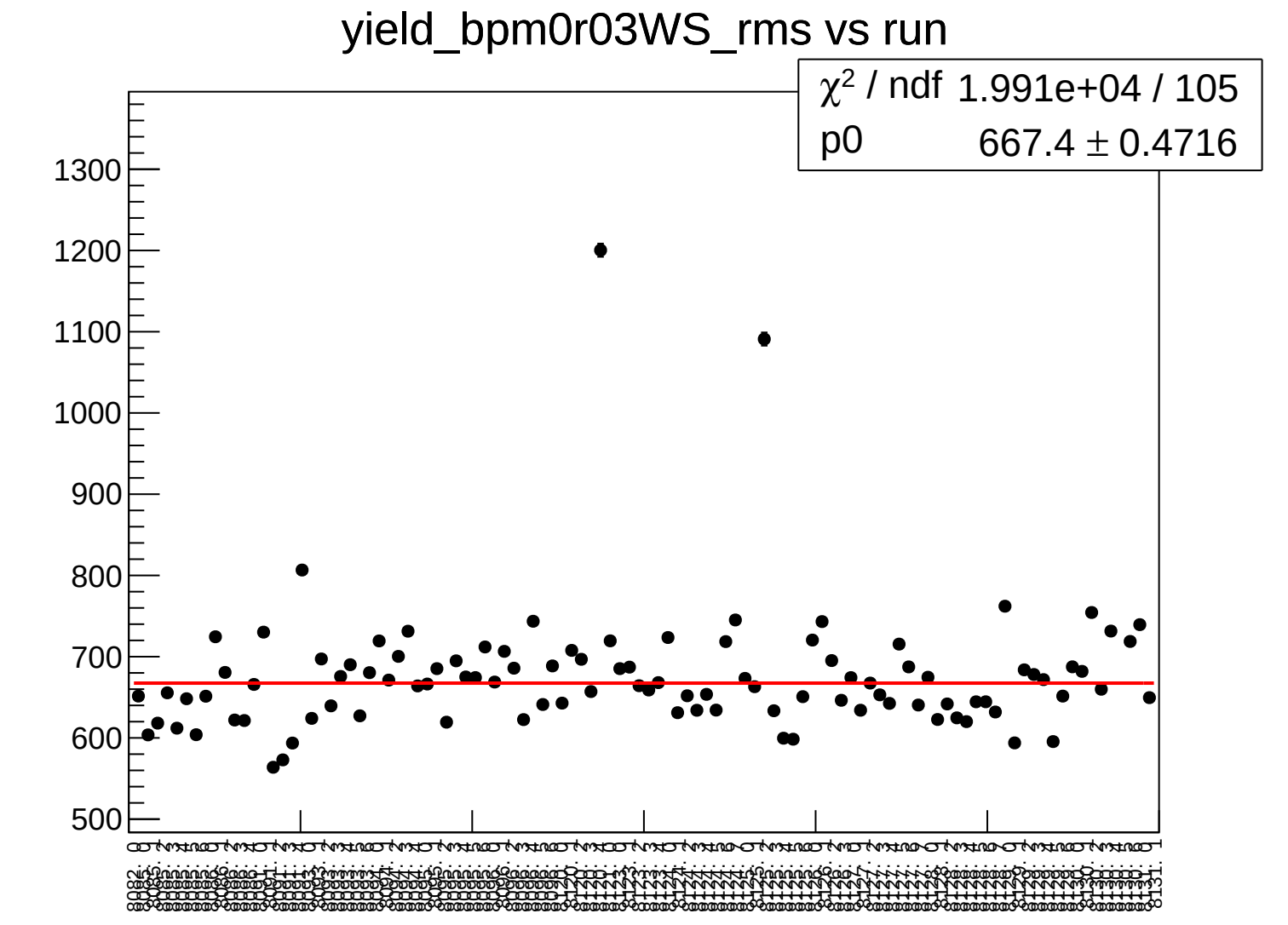

yield_bpm0l10WS_mean vs run
×10^3
χ² / ndf 4.62e+05 / 105
p0 1.408e+05 ± 0.517
141.4
141.2
141
140.8
140.6
140.4
140.2
140
139.8
pull
Entries 106
Mean 34
Std Dev 230.4
100
50
0
−50
−100
−150

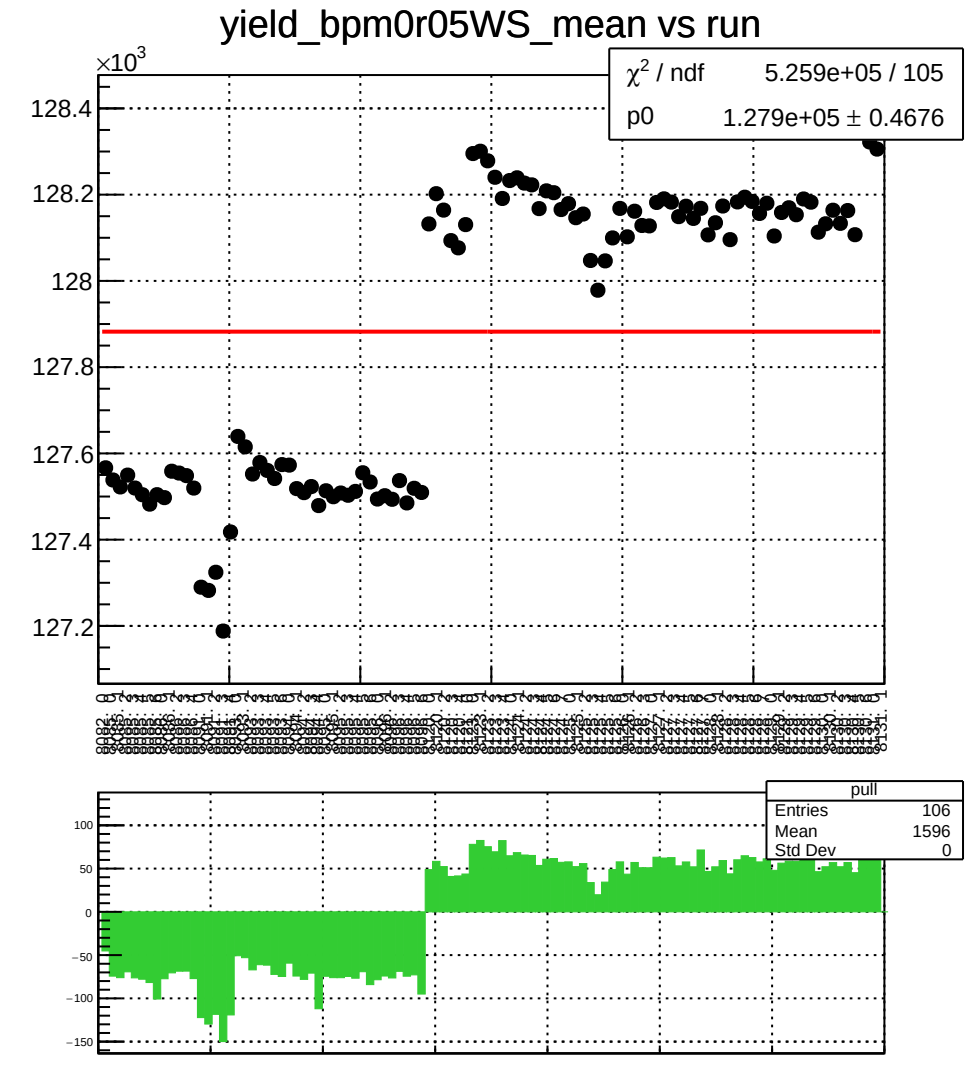

pull1D
Entries 106
Mean −0.2475
Std Dev 4.342
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

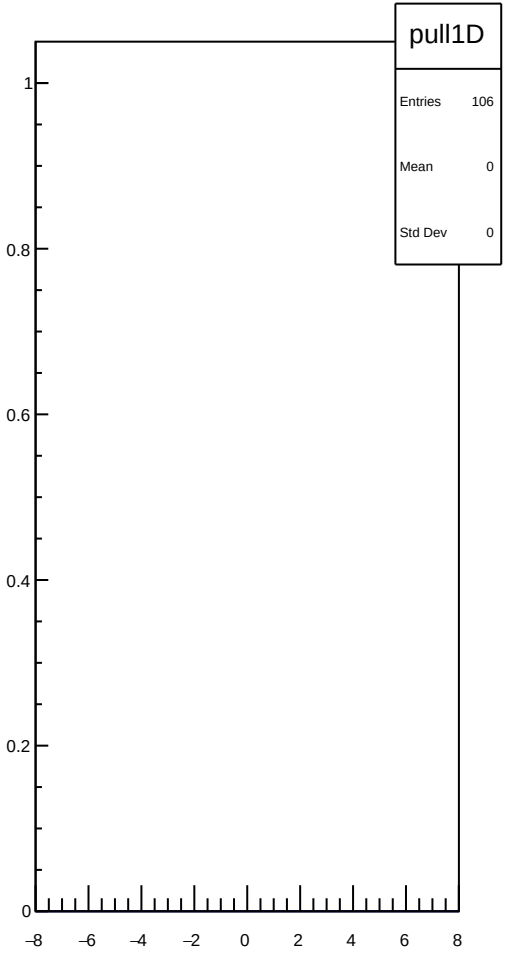

yield_bpm0l10WS_rms vs run
χ² / ndf 3.066e+04 / 105
p0 516 ± 0.3656
1200
1100
1000
900
800
700
600
500
400

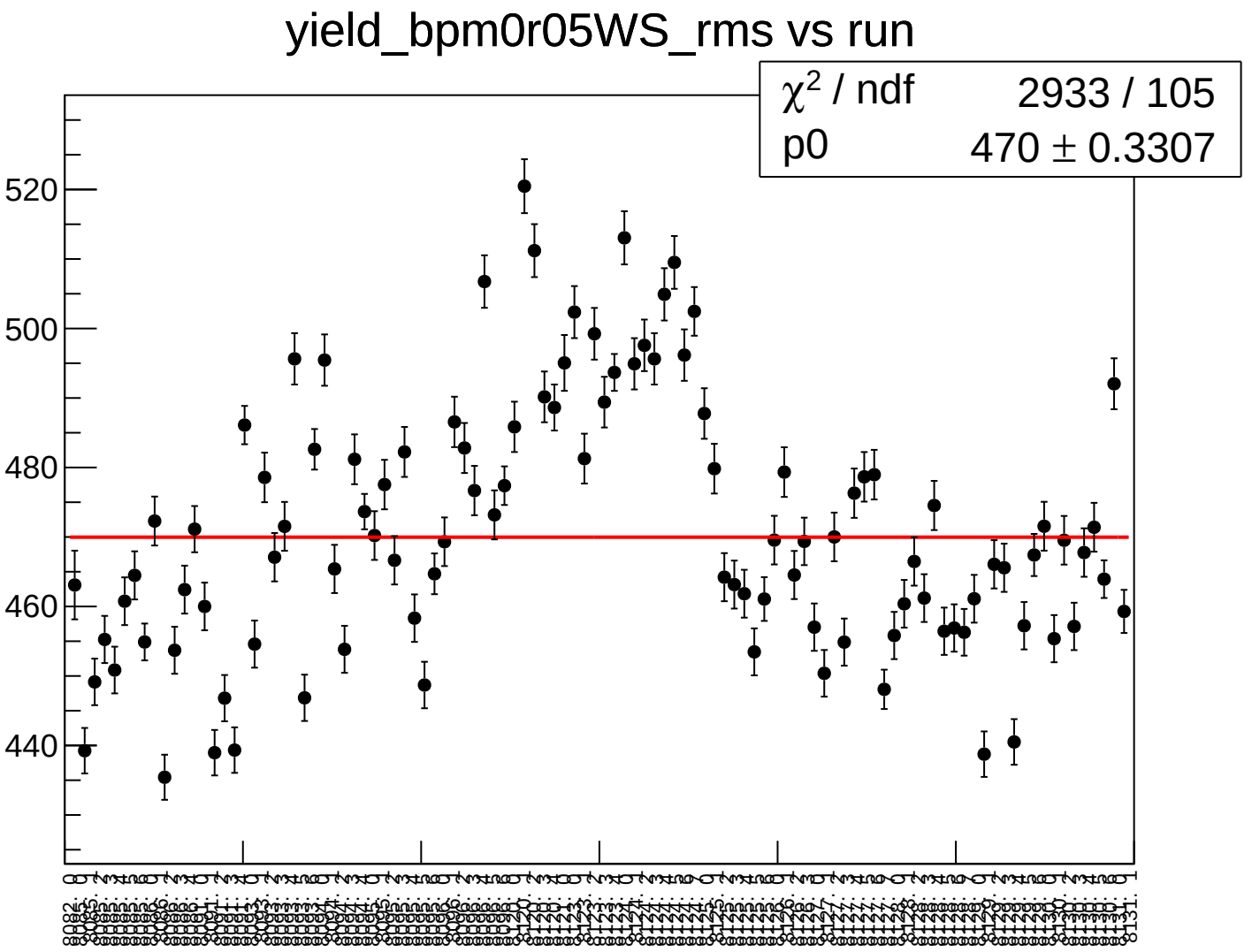

yield_bpm0r03WS_mean vs run
×10^3
χ² / ndf 1.56e+06 / 105
p0 1.435e+05 ± 0.6669
145
144.5
144
143.5
143
142.5
142
141.5
pull
Entries 106
Mean 2106
Std Dev 0
200
100
0
−100
−200
−300

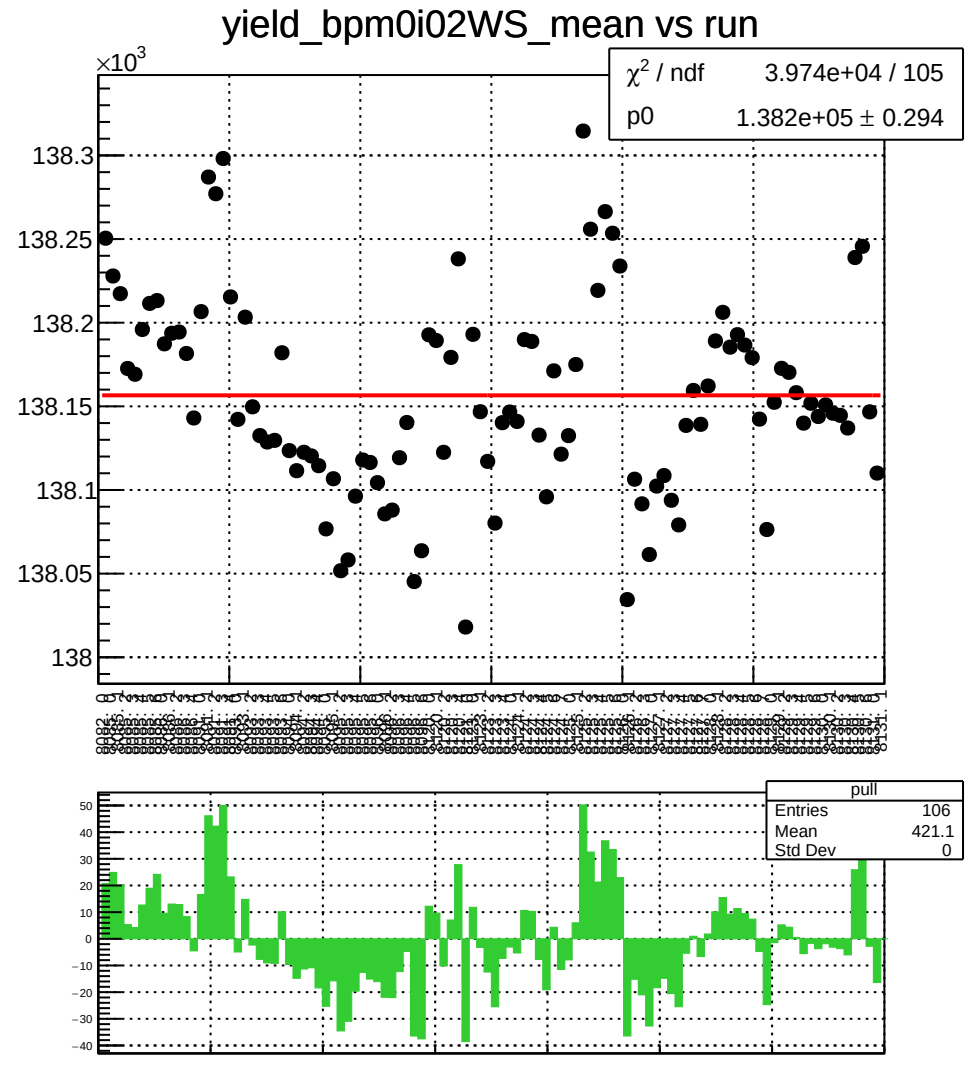

pull1D
Entries 106
Mean −1.01
Std Dev 3.935
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

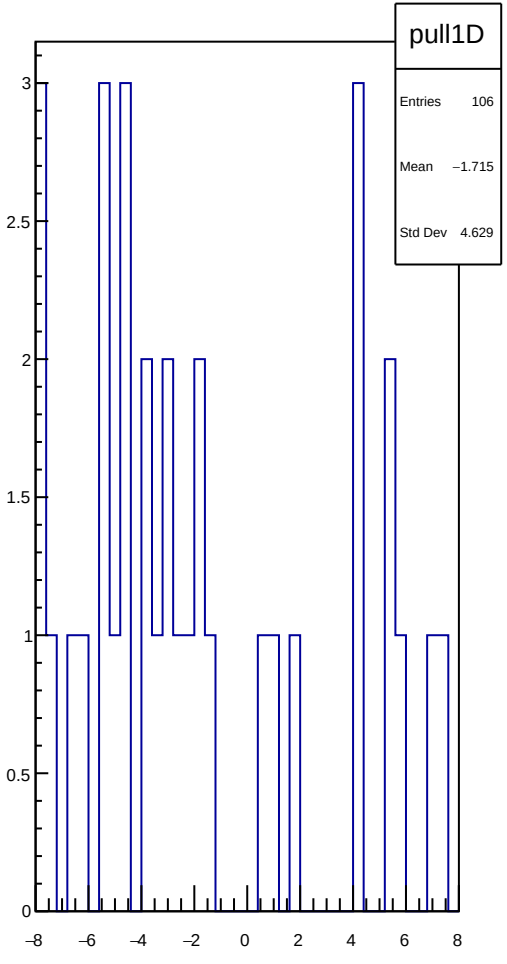

yield_bpm0r03WS_rms vs run
χ² / ndf 1.991e+04 / 105
p0 667.4 ± 0.4716
1300
1200
1100
1000
900
800
700
600
500

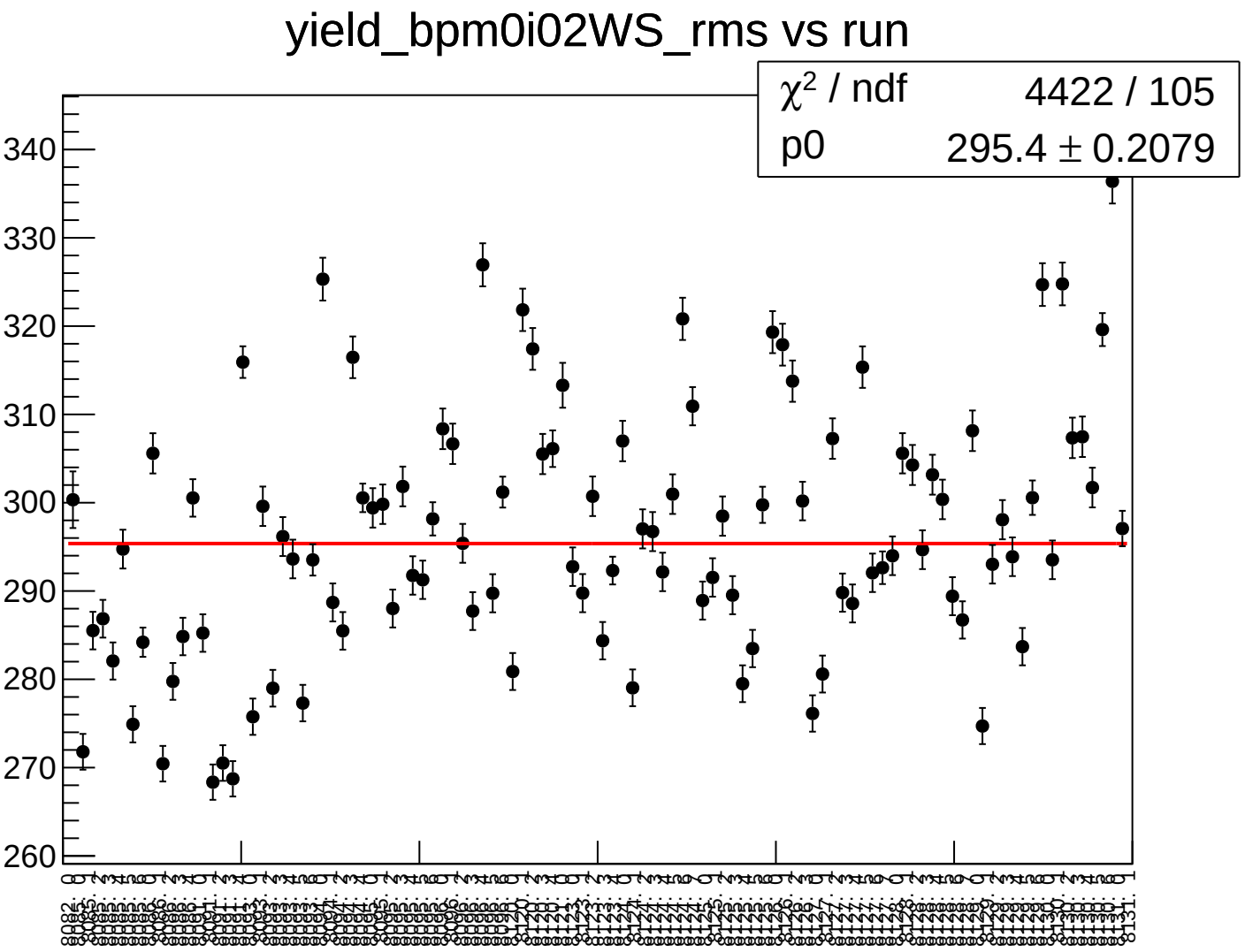

yield_bpm0r05WS_mean vs run
×10^3
χ² / ndf 5.259e+05 / 105
p0 1.279e+05 ± 0.4676
128.4
128.2
128
127.8
127.6
127.4
127.2
pull
Entries 106
Mean 1596
Std Dev 0
100
50
0
−50
−100
−150

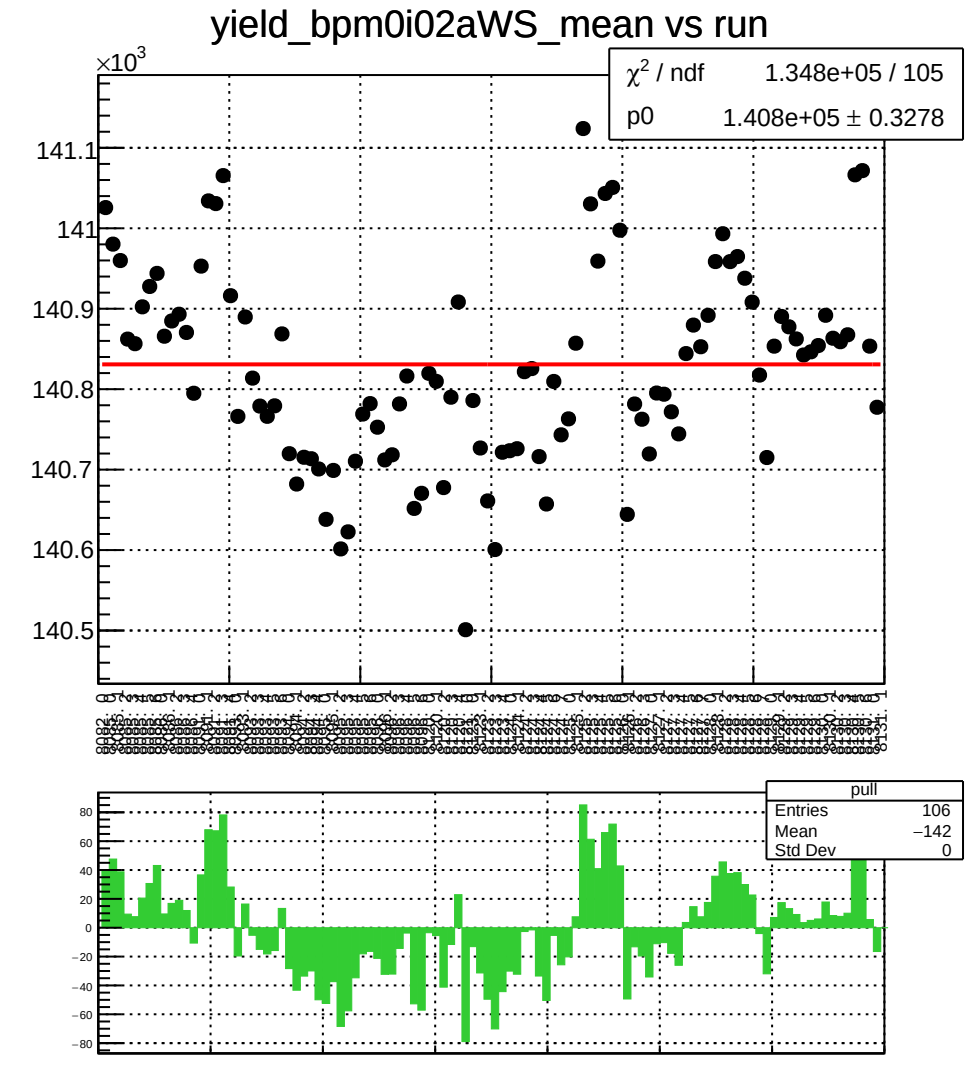

pull1D
Entries 106
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

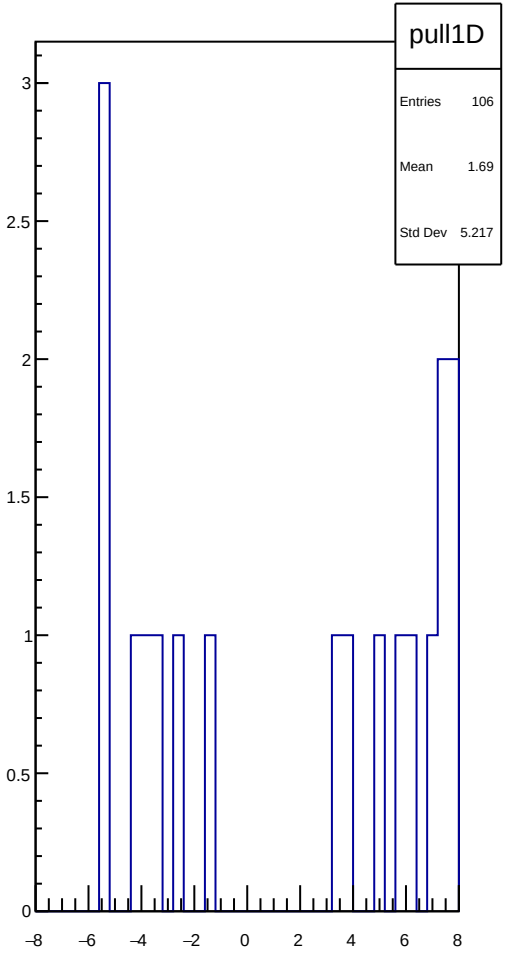

yield_bpm0r05WS_rms vs run
$\chi^2$ / ndf 2933 / 105
p0 470 ± 0.3307
520
500
480
460
440

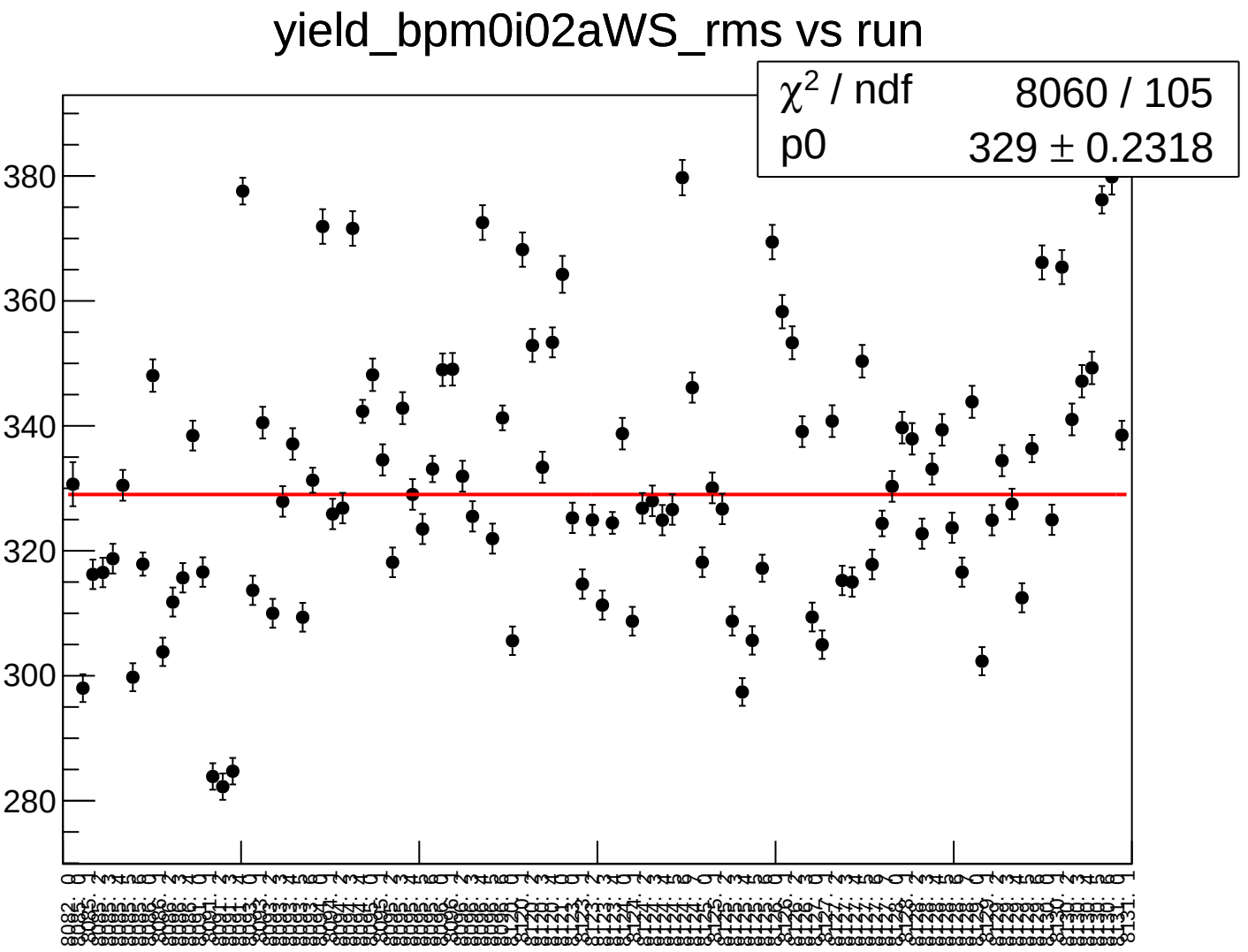

yield_bpm0i02WS_mean vs run
×10^3
χ^2 / ndf 3.974e+04 / 105
p0 1.382e+05 ± 0.294
138.3
138.25
138.2
138.15
138.1
138.05
138
pull
Entries 106
Mean 421.1
Std Dev 0
50
40
30
20
10
0
−10
−20
−30
−40

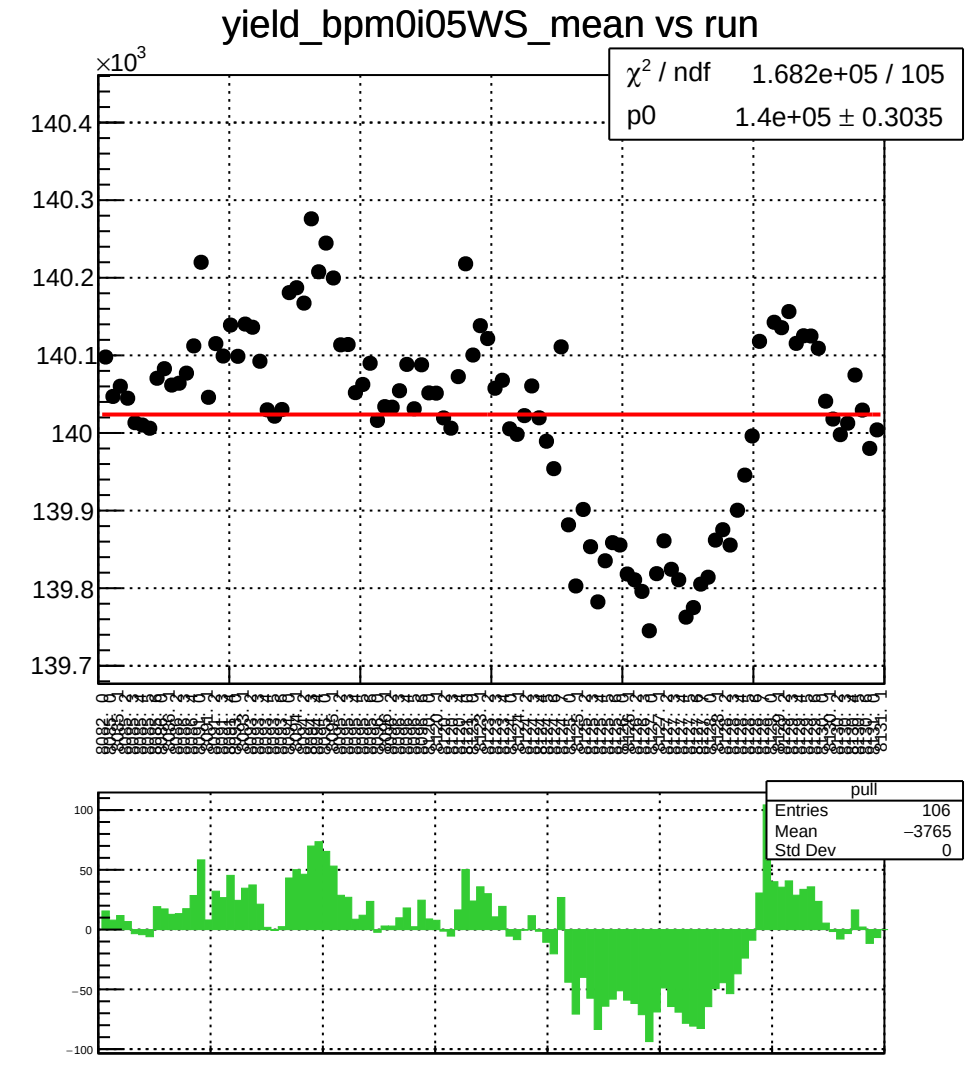

pull1D
Entries 106
Mean −1.715
Std Dev 4.629
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

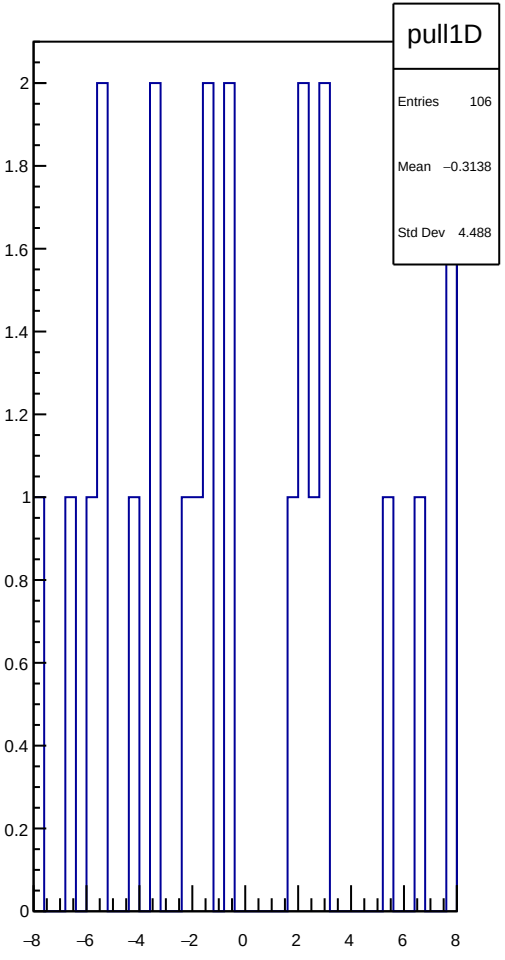

yield_bpm0i02WS_rms vs run
χ² / ndf 4422 / 105
p0 295.4 ± 0.2079
340
330
320
310
300
290
280
270
260

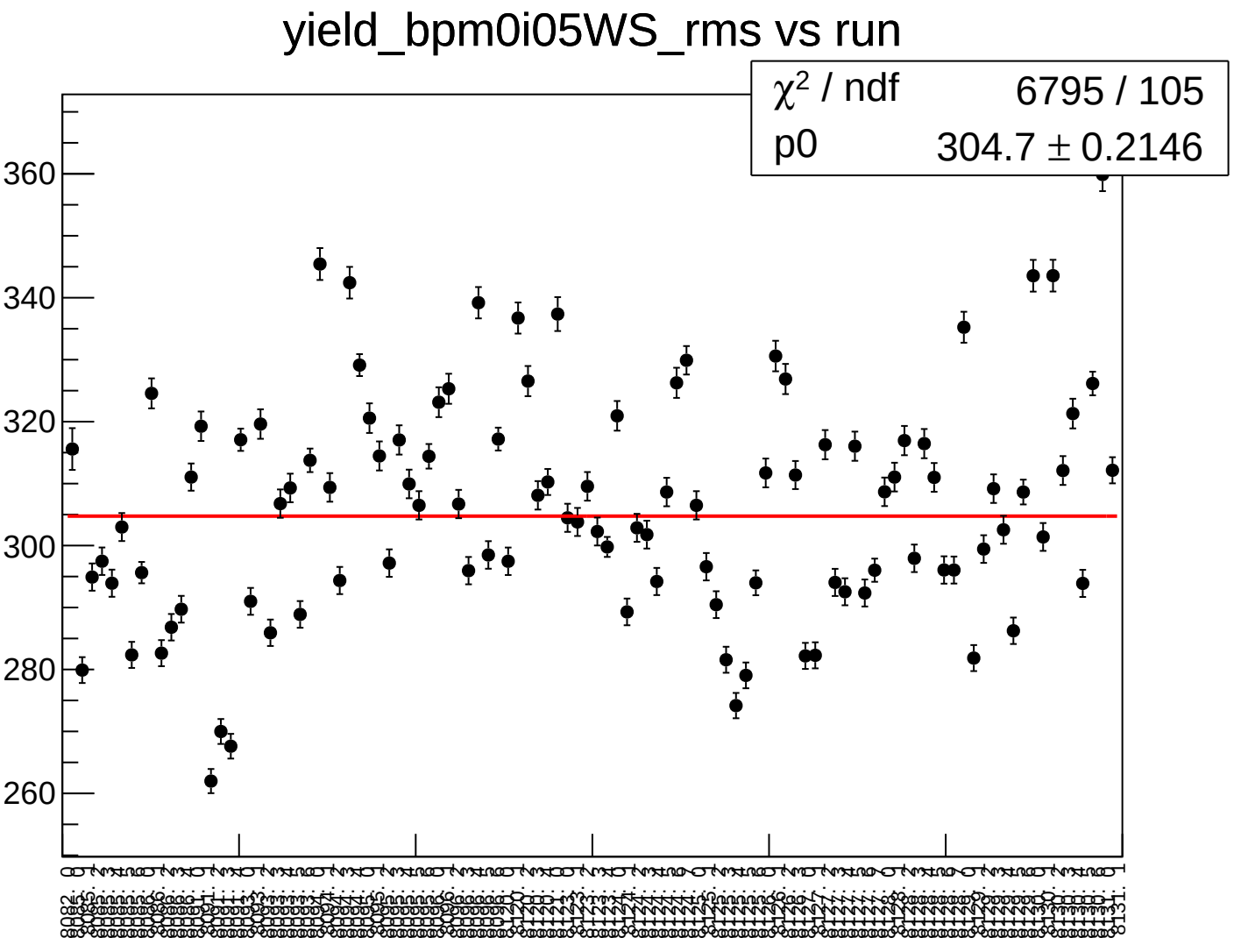

yield_bpm0i02aWS_mean vs run
×10^3
χ² / ndf 1.348e+05 / 105
p0 1.408e+05 ± 0.3278
141.1
141
140.9
140.8
140.7
140.6
140.5
pull
Entries 106
Mean −142
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80

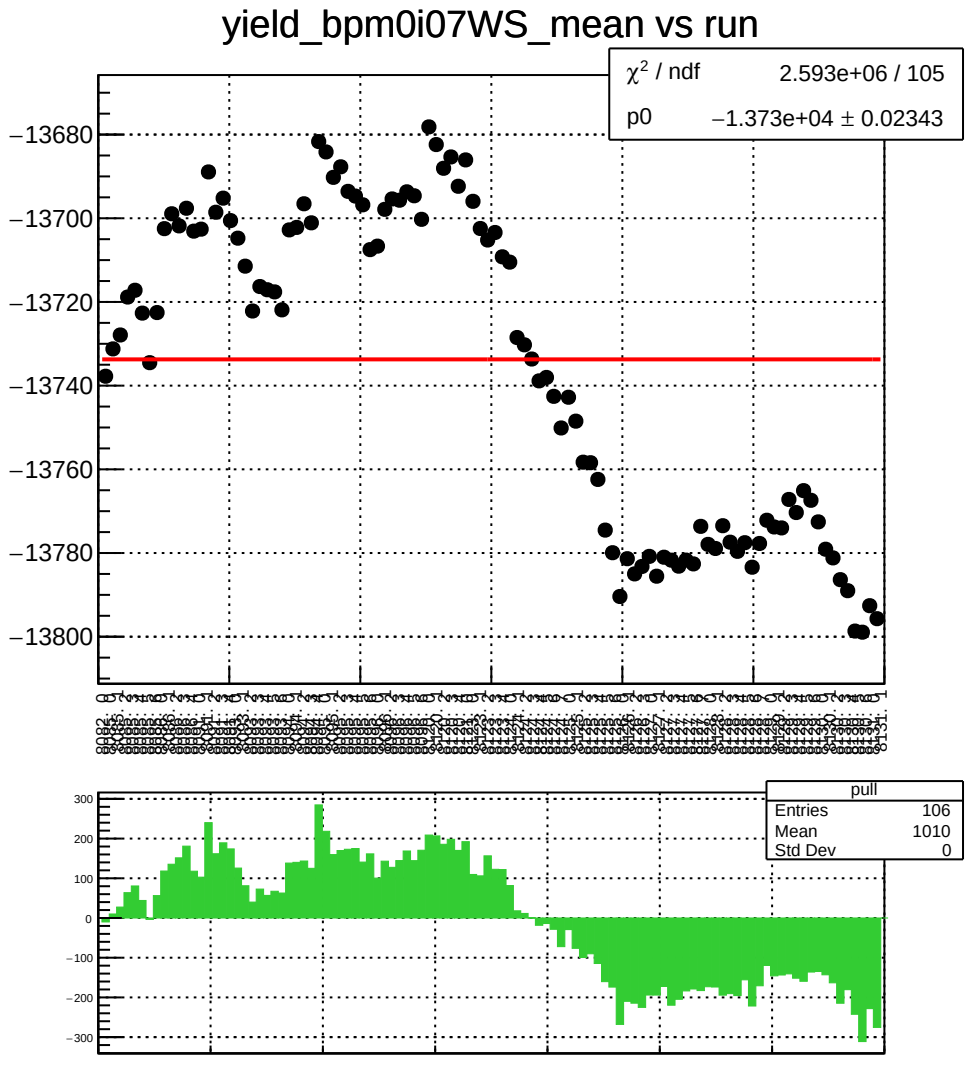

pull1D
Entries 106
Mean 1.69
Std Dev 5.217
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

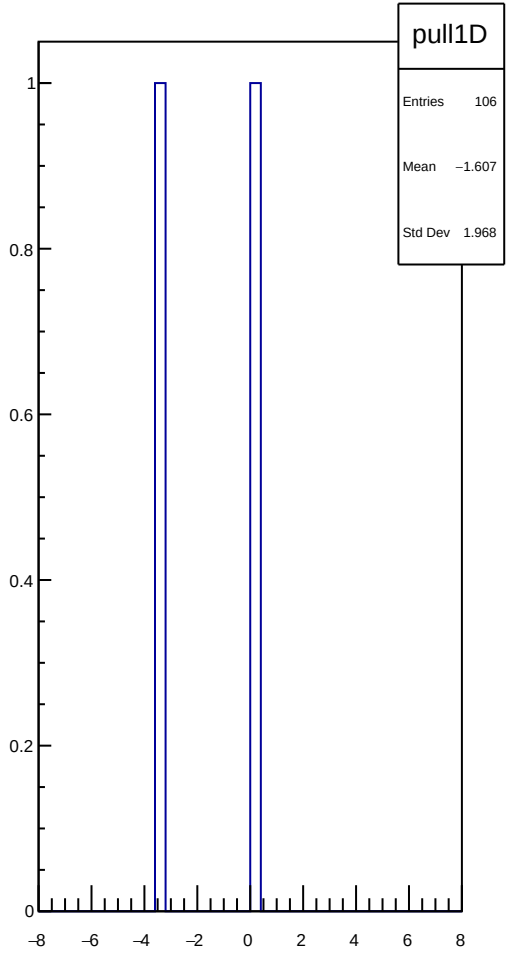

yield_bpm0i02aWS_rms vs run
χ² / ndf 8060 / 105
p0 329 ± 0.2318
380
360
340
320
300
280

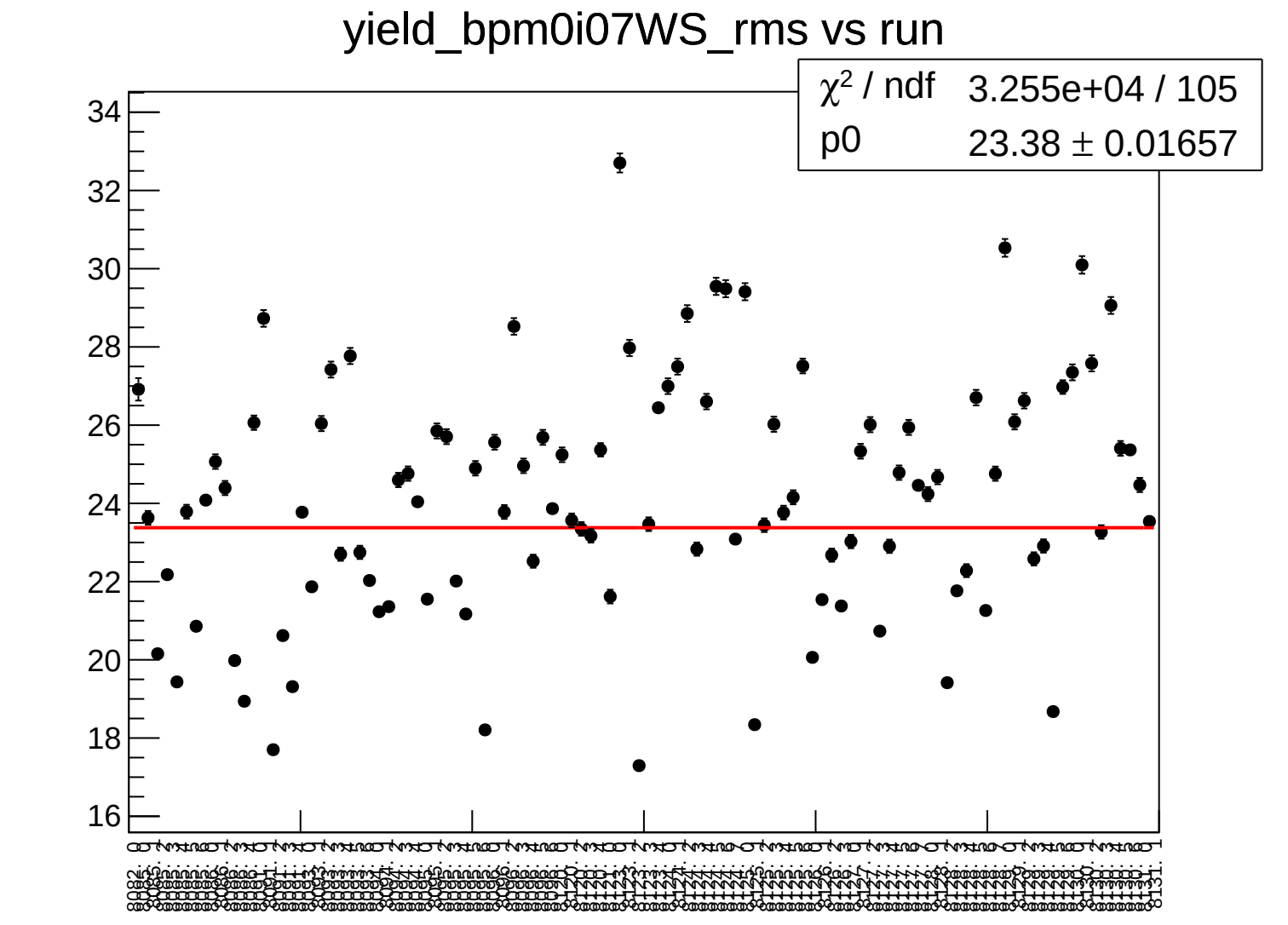

yield_bpm0i05WS_mean vs run
χ² / ndf 1.682e+05 / 105
p0 1.4e+05 ± 0.3035
×10³
140.4
140.3
140.2
140.1
140
139.9
139.8
139.7
pull
Entries 106
Mean −3765
Std Dev 0
100
50
0
−50
−100

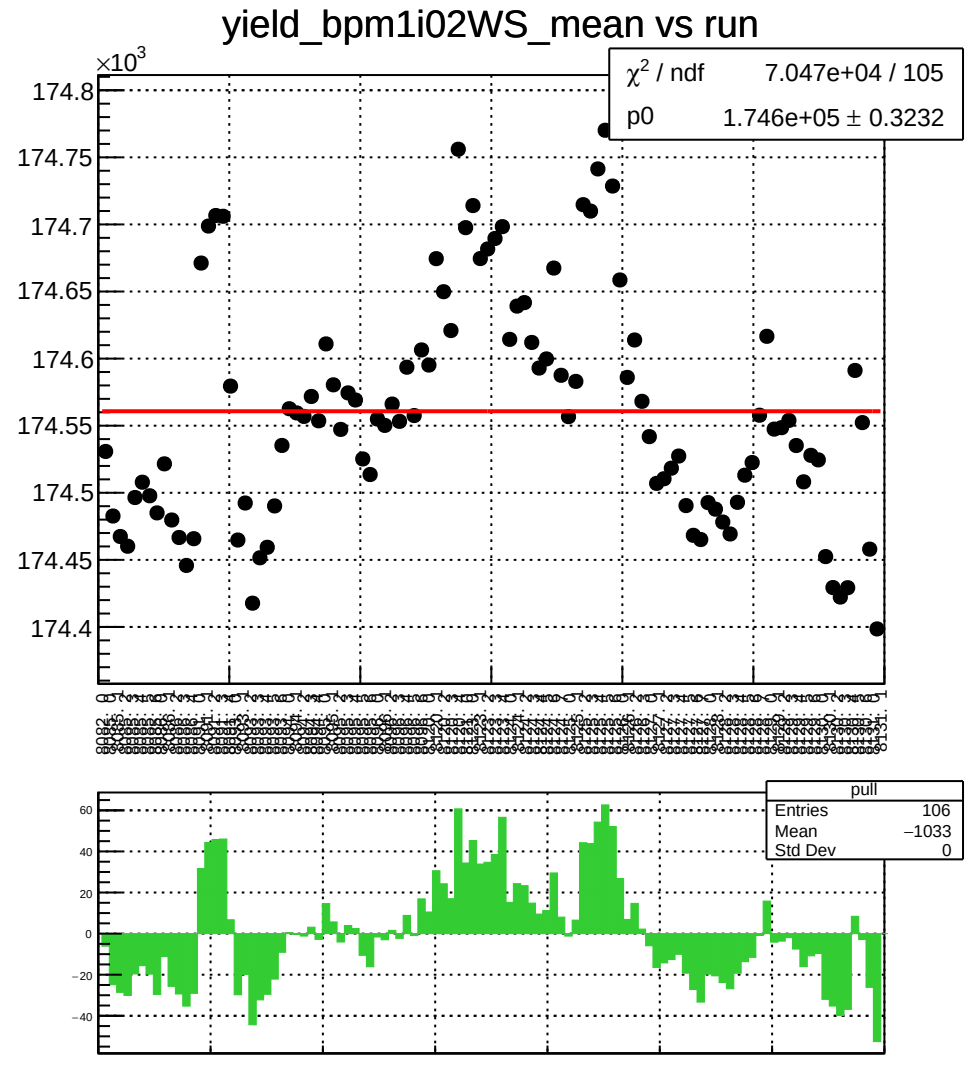

pull1D
Entries 106
Mean −0.3138
Std Dev 4.488
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

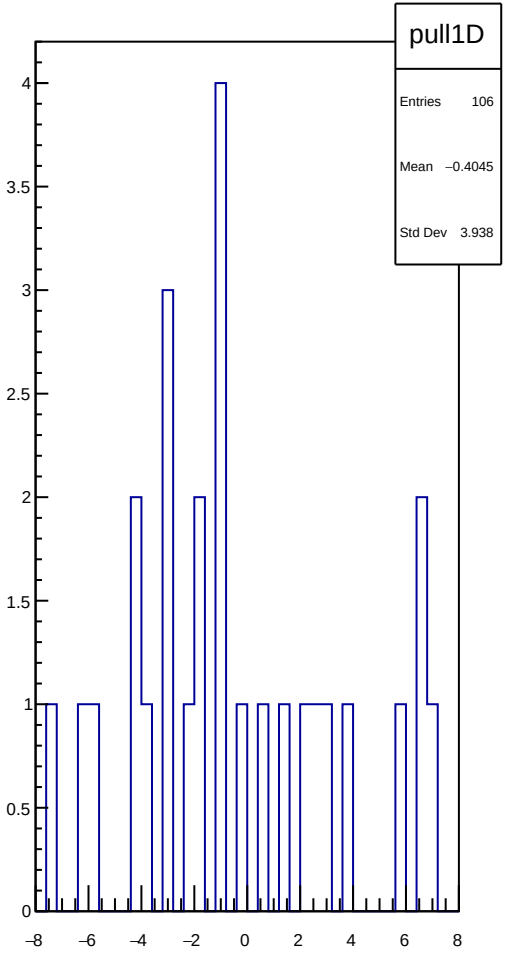

yield_bpm0i05WS_rms vs run
χ² / ndf 6795 / 105
p0 304.7 ± 0.2146
360
340
320
300
280
260

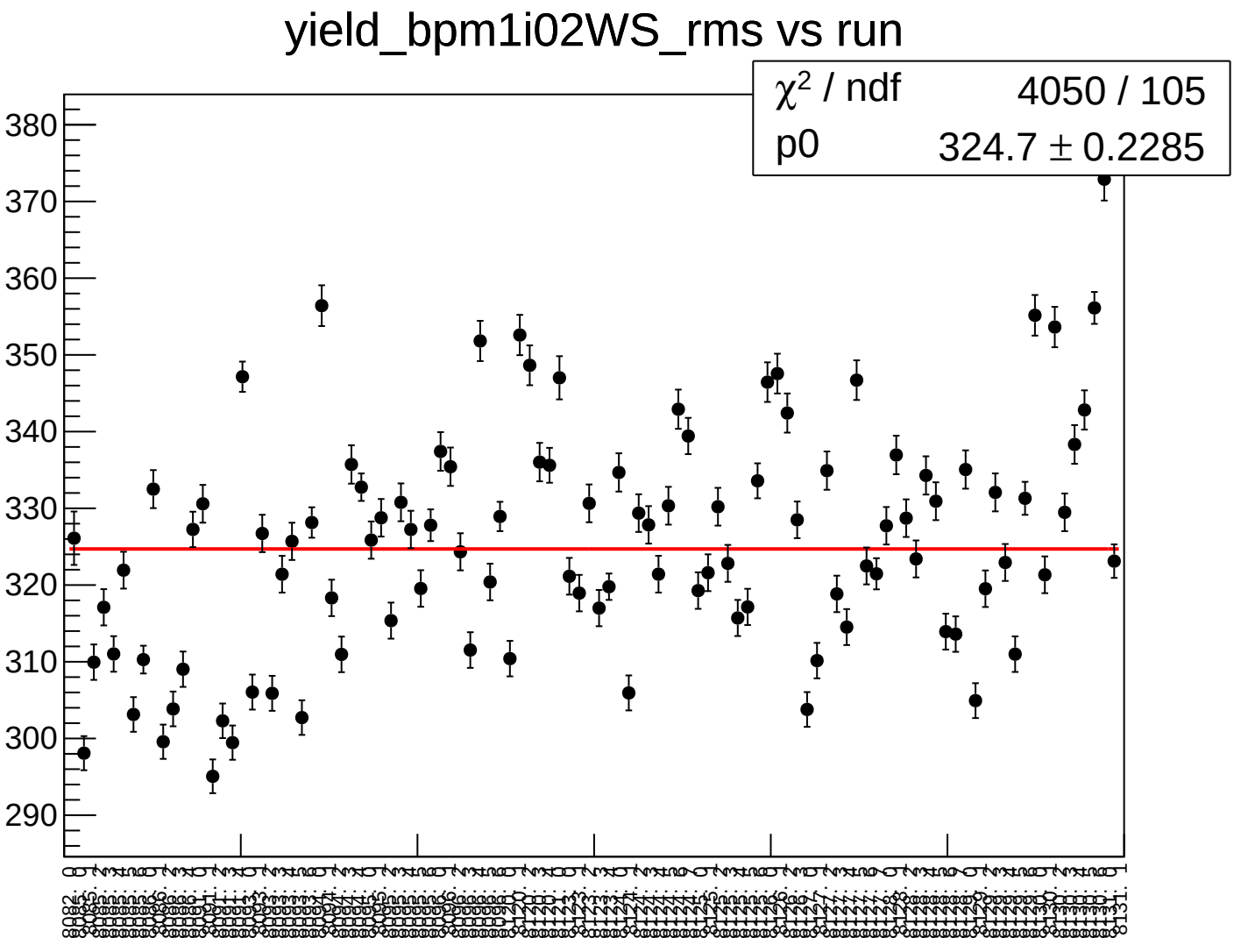

yield_bpm0i07WS_mean vs run
χ² / ndf 2.593e+06 / 105
p0 −1.373e+04 ± 0.02343
−13680
−13700
−13720
−13740
−13760
−13780
−13800
pull
Entries 106
Mean 1010
Std Dev 0
300
200
100
0
−100
−200
−300

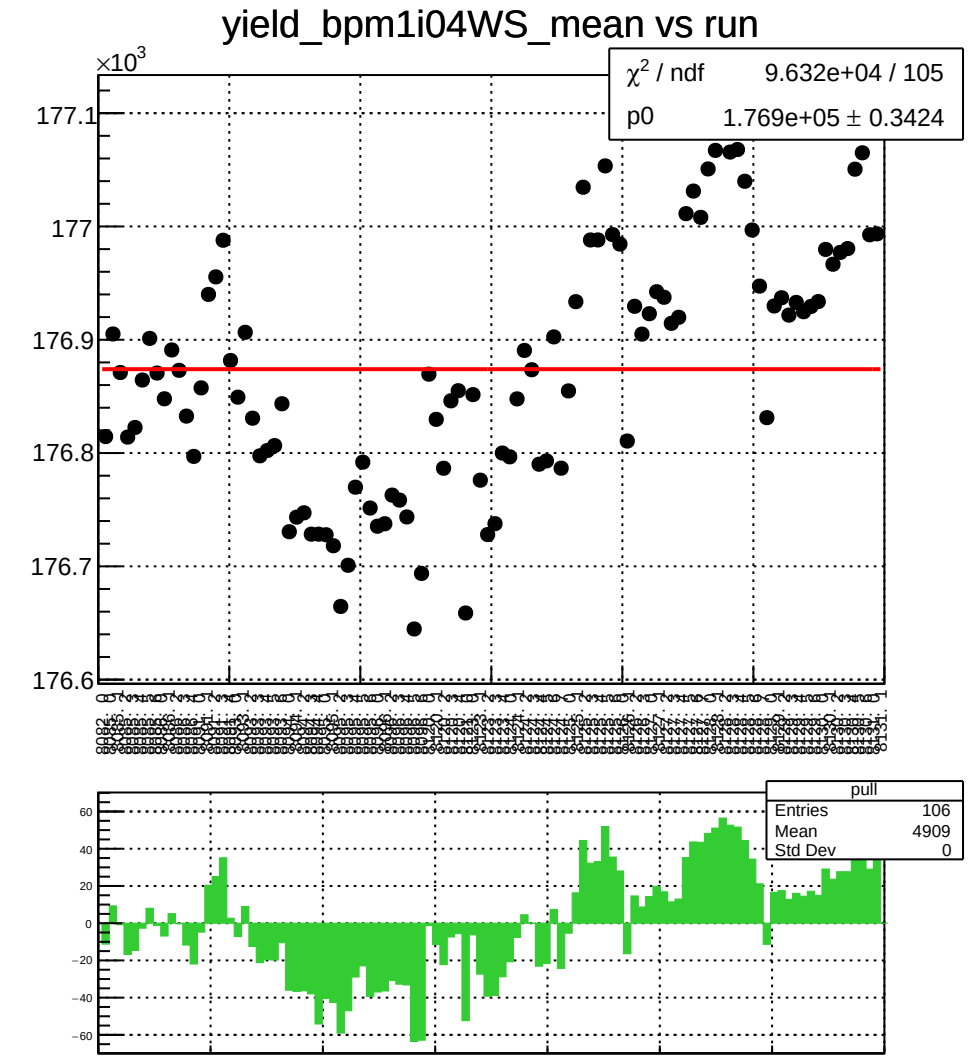

pull1D
Entries 106
Mean −1.607
Std Dev 1.968
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

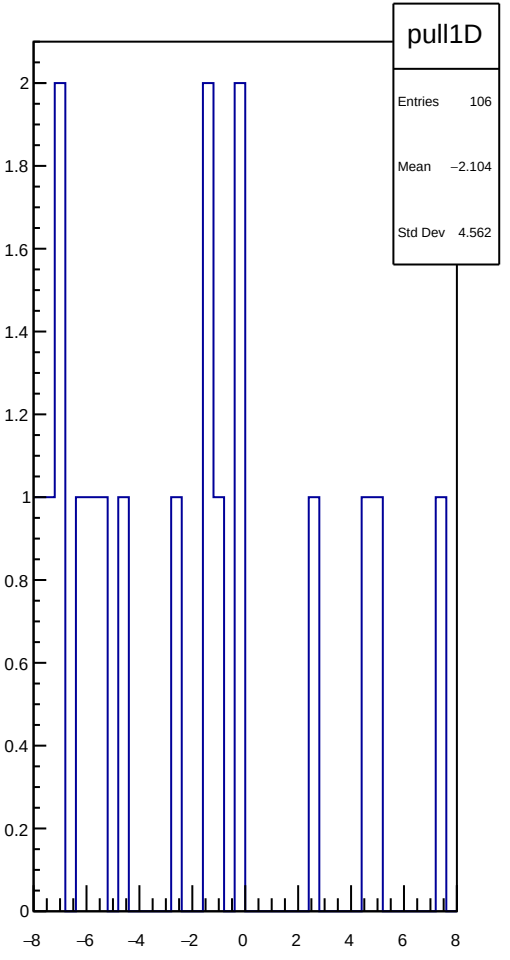

yield_bpm0i07WS_rms vs run
χ² / ndf 3.255e+04 / 105
p0 23.38 ± 0.01657
34
32
30
28
26
24
22
20
18
16

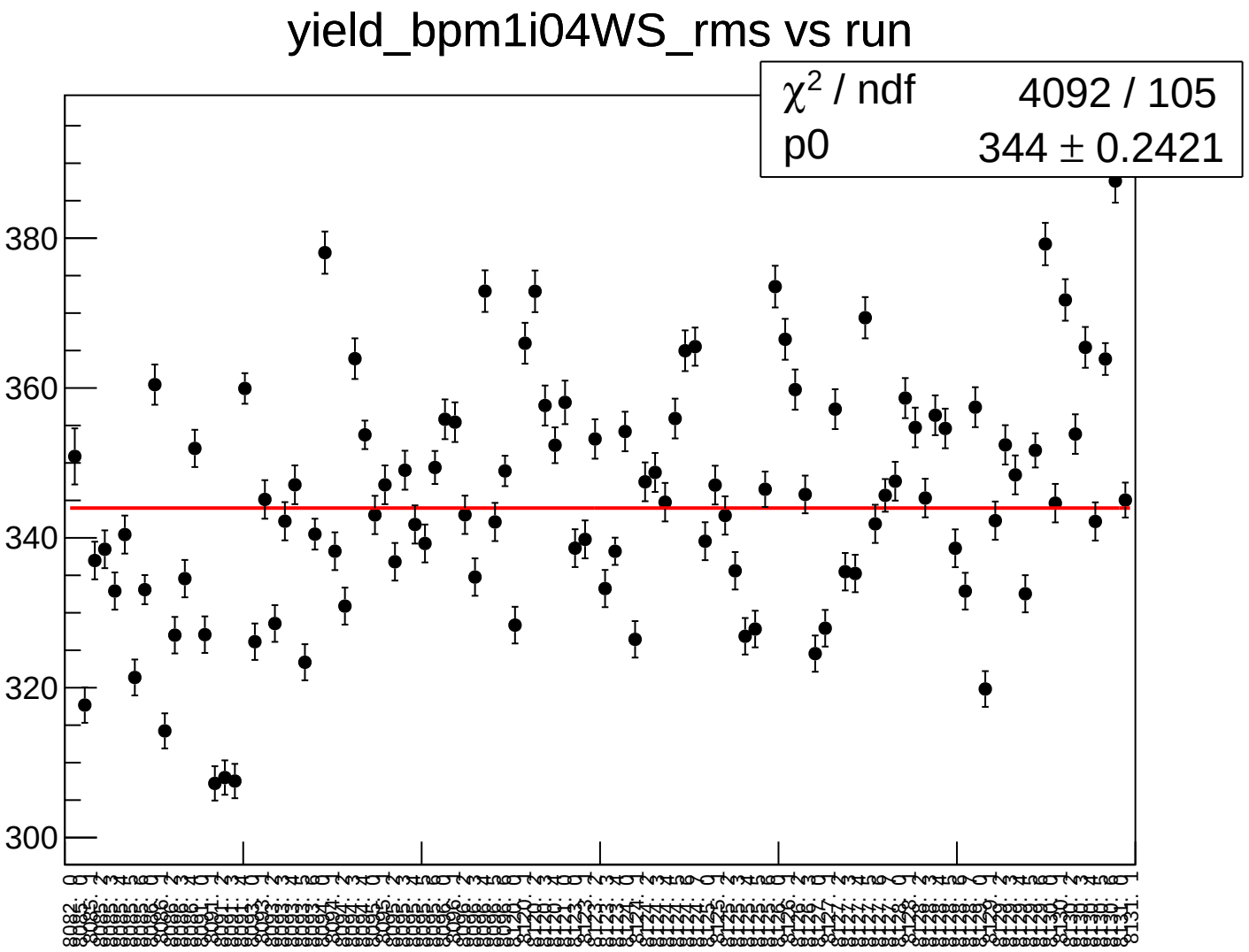

yield_bpm1i02WS_mean vs run
×10^3
χ² / ndf 7.047e+04 / 105
p0 1.746e+05 ± 0.3232
174.8
174.75
174.7
174.65
174.6
174.55
174.5
174.45
174.4
pull
Entries 106
Mean −1033
Std Dev 0
60
40
20
0
−20
−40

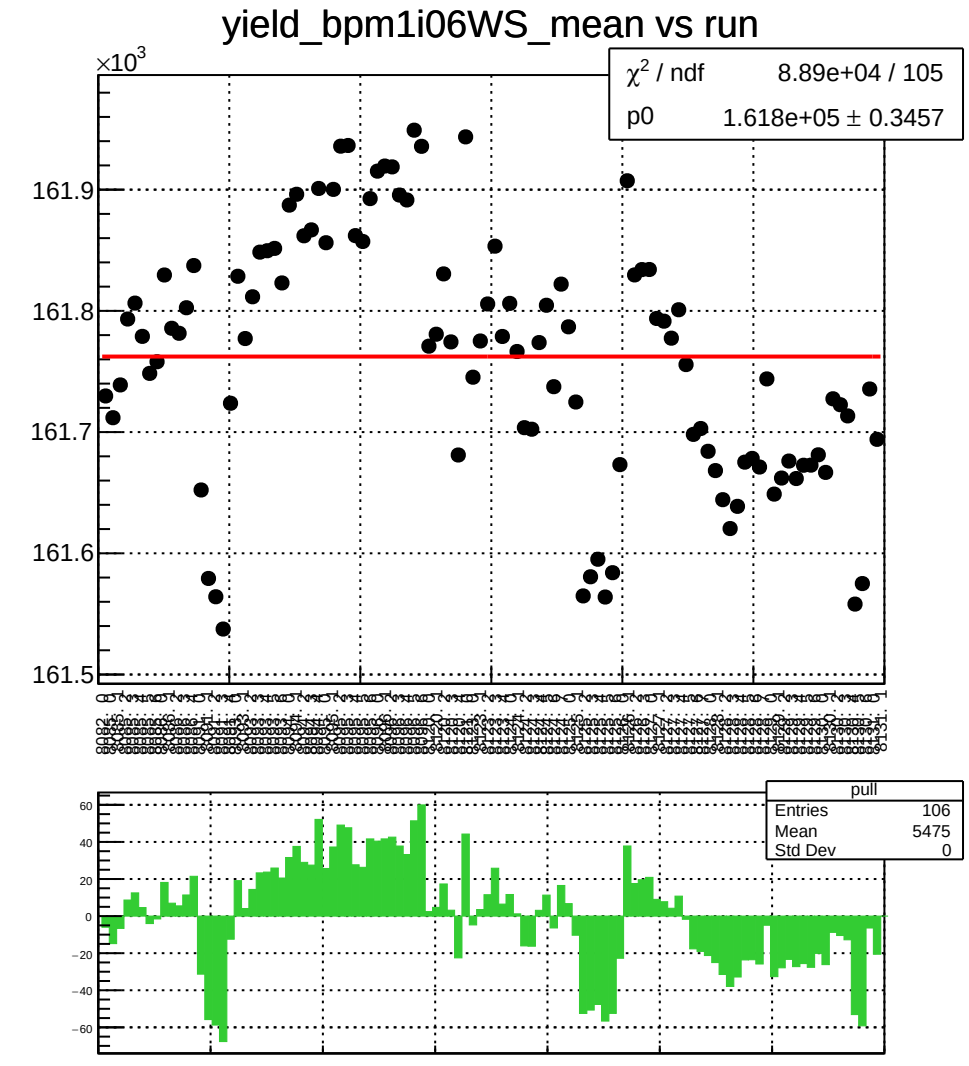

pull1D
Entries 106
Mean −0.4045
Std Dev 3.938
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

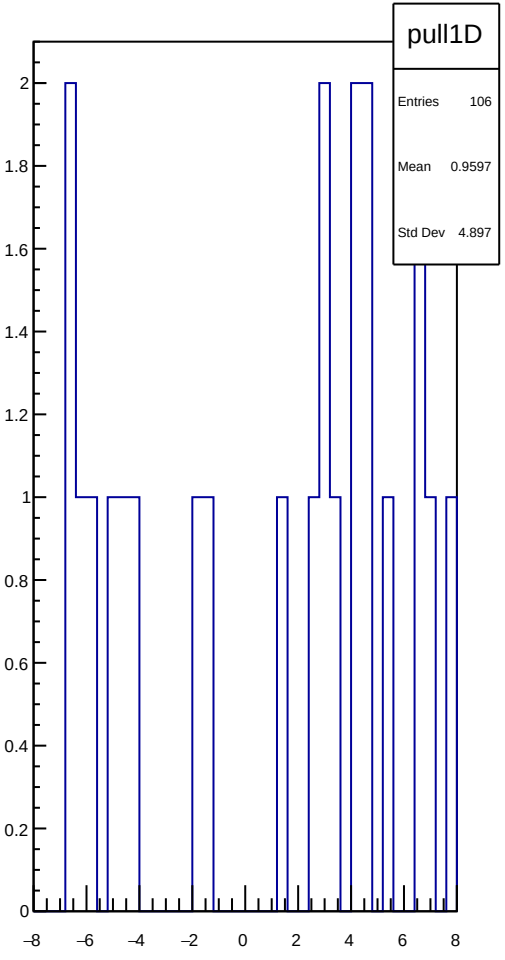

yield_bpm1i02WS_rms vs run
χ² / ndf 4050 / 105
p0 324.7 ± 0.2285
380
370
360
350
340
330
320
310
300
290

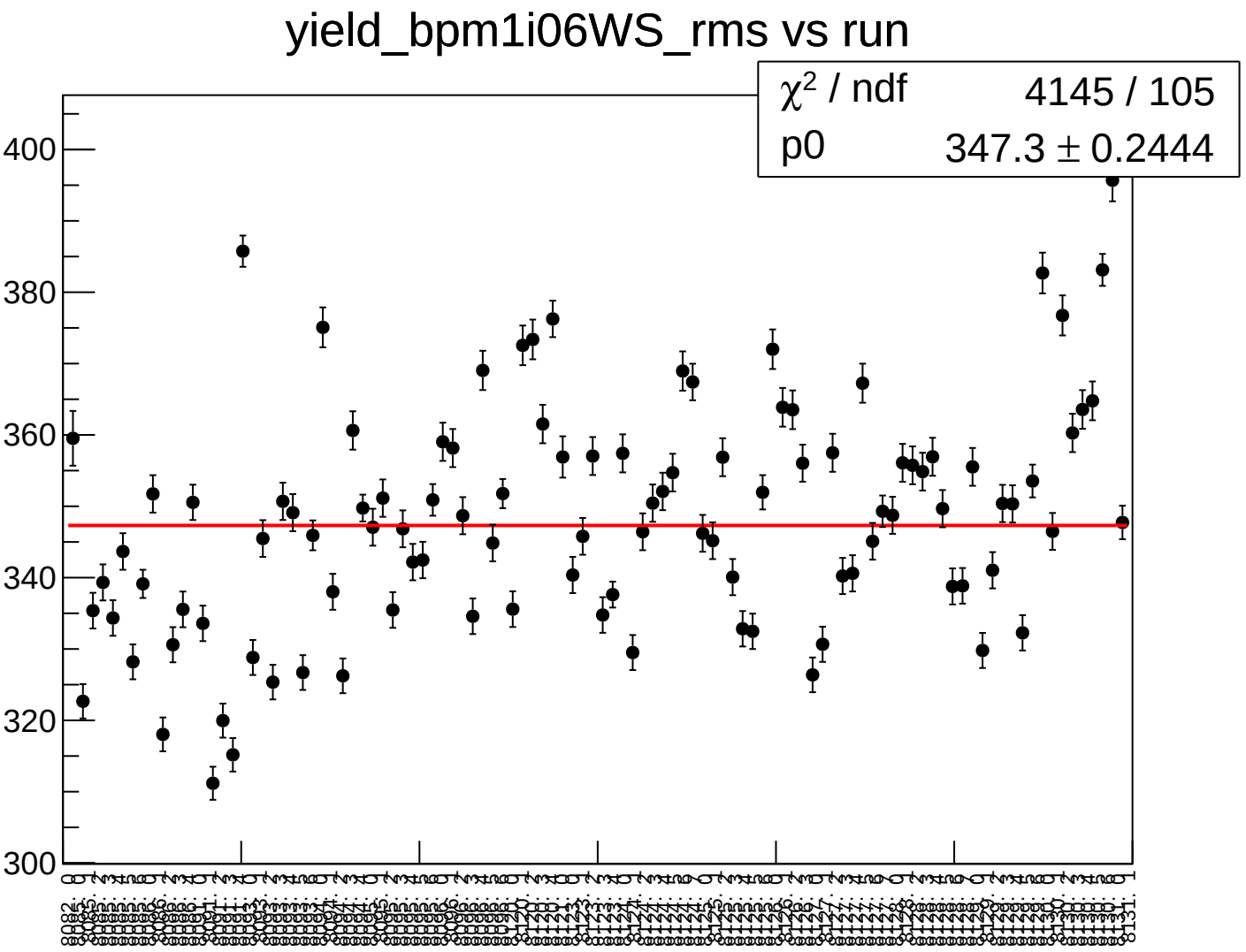

yield_bpm1i04WS_mean vs run
×10^3
χ² / ndf 9.632e+04 / 105
p0 1.769e+05 ± 0.3424
177.1
177
176.9
176.8
176.7
176.6
pull
Entries 106
Mean 4909
Std Dev 0
60
40
20
0
−20
−40
−60

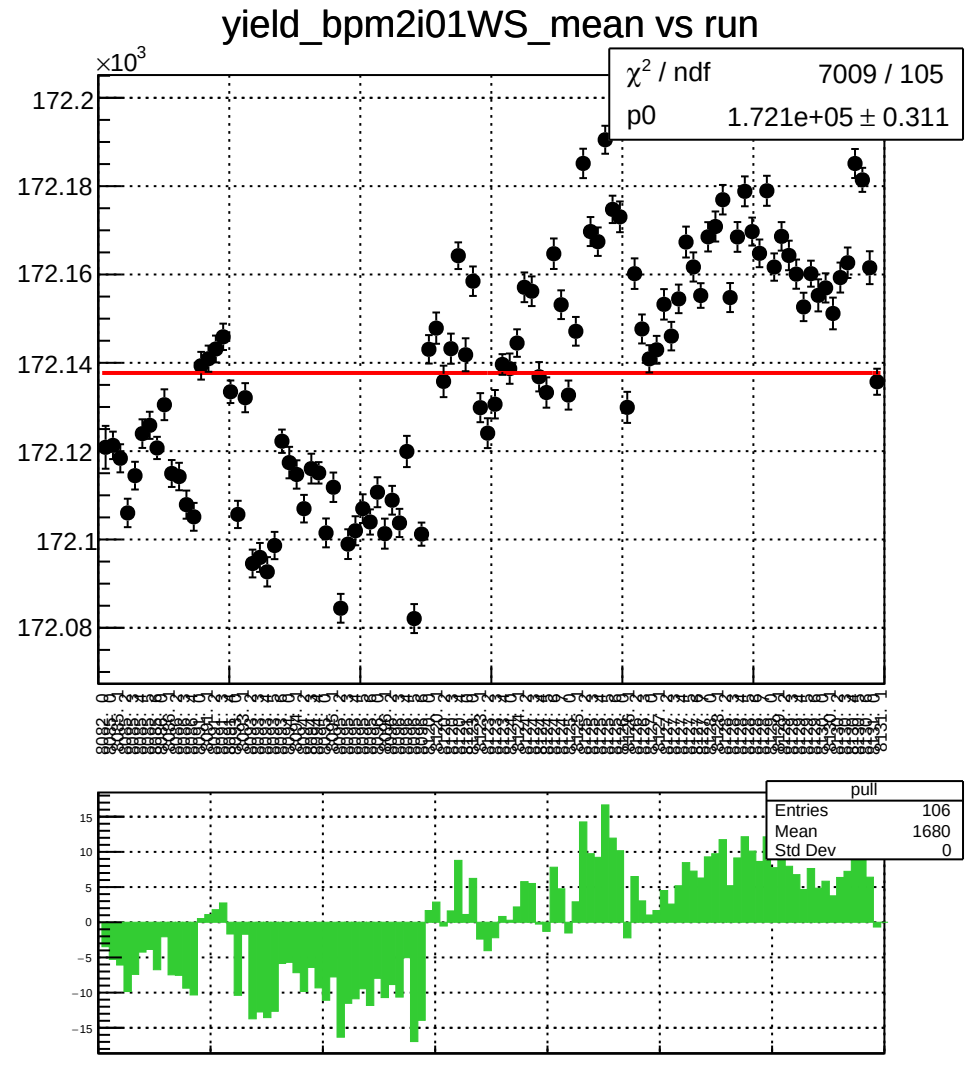

pull1D
Entries 106
Mean −2.104
Std Dev 4.562
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

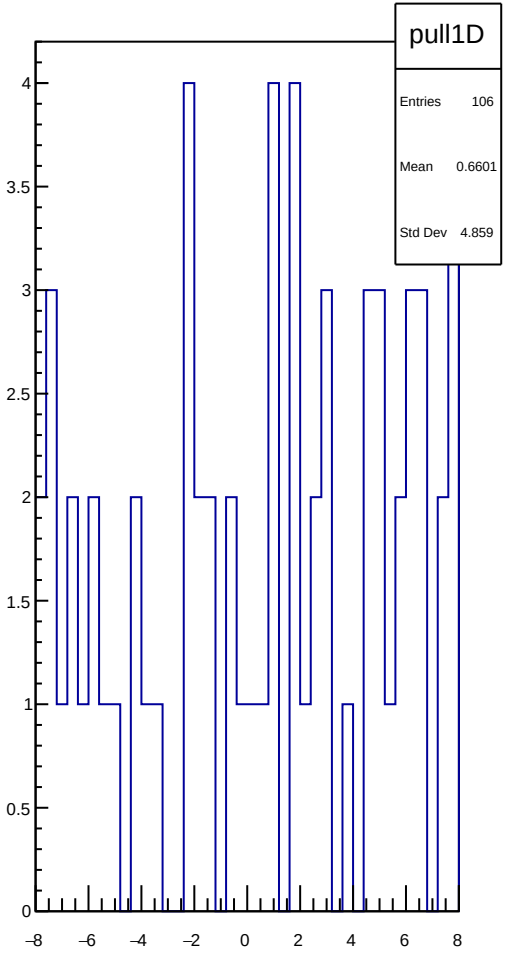

yield_bpm1i04WS_rms vs run
χ² / ndf 4092 / 105
p0 344 ± 0.2421
380
360
340
320
300

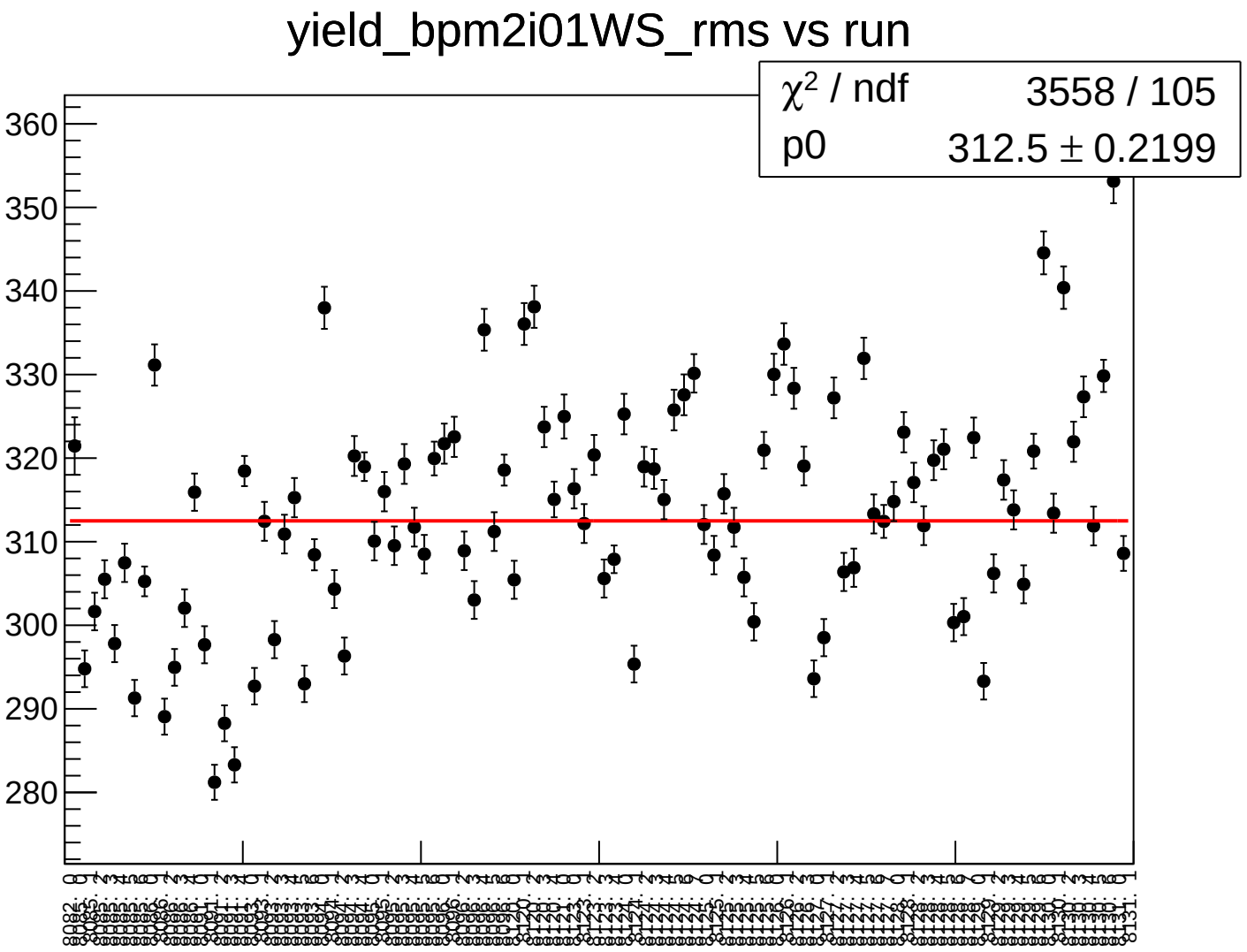

yield_bpm1i06WS_mean vs run
×10^3
χ² / ndf 8.89e+04 / 105
p0 1.618e+05 ± 0.3457
161.9
161.8
161.7
161.6
161.5
pull
Entries 106
Mean 5475
Std Dev 0
60
40
20
0
−20
−40
−60

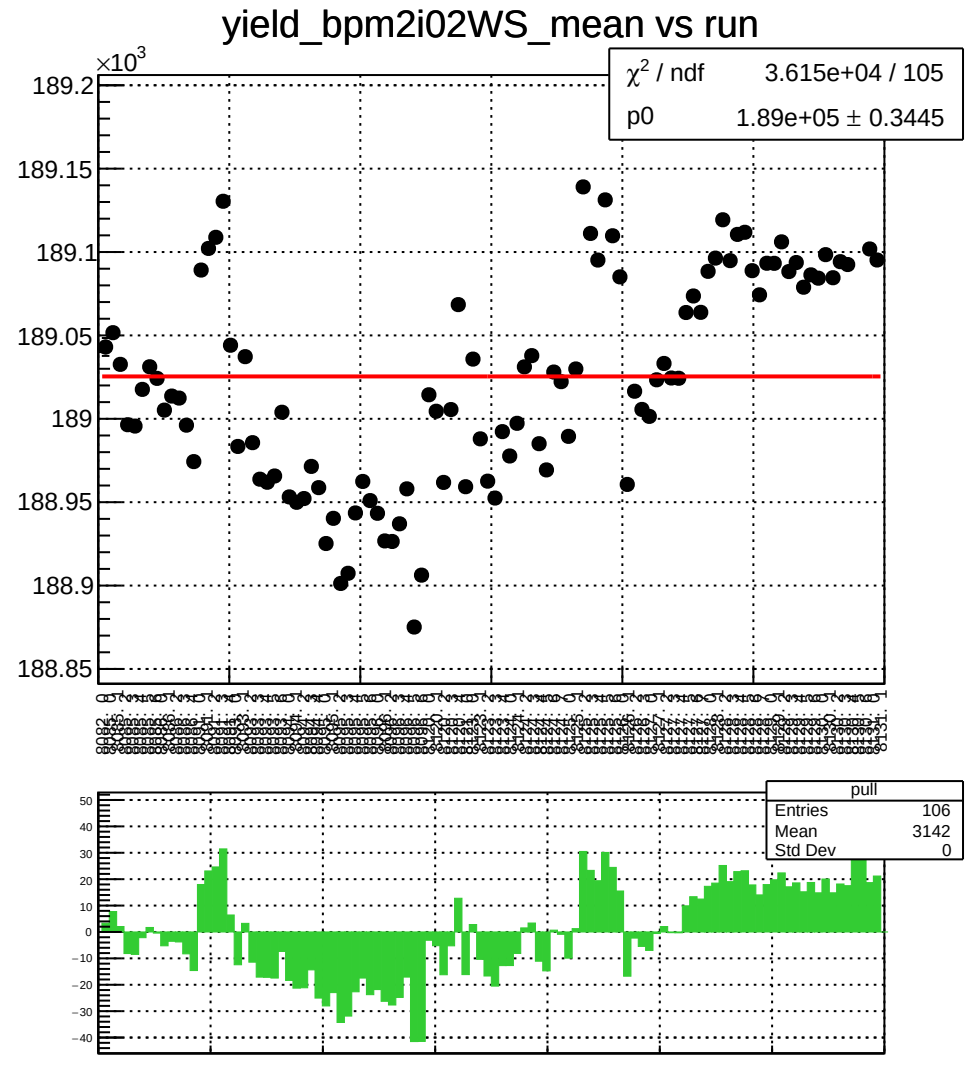

pull1D
Entries 106
Mean 0.9597
Std Dev 4.897
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

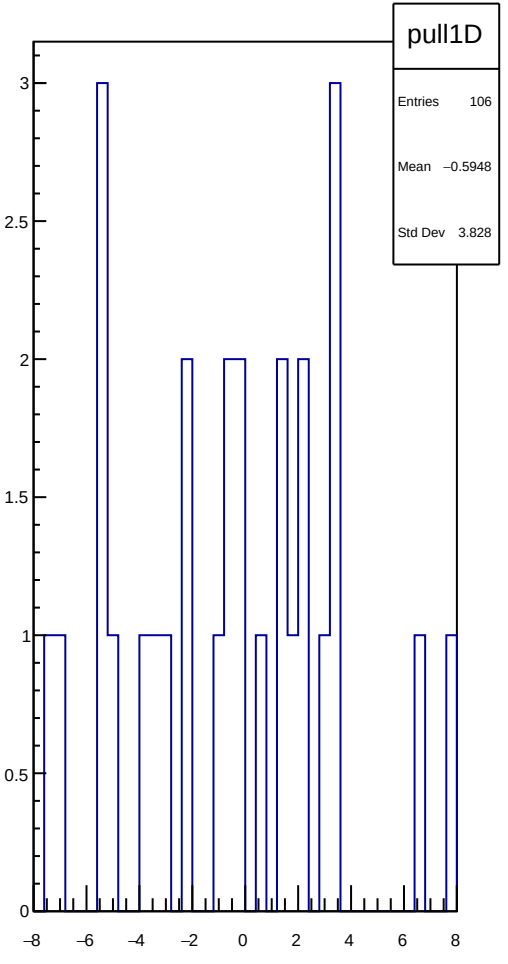

yield_bpm1i06WS_rms vs run
χ² / ndf 4145 / 105
p0 347.3 ± 0.2444
400
380
360
340
320
300

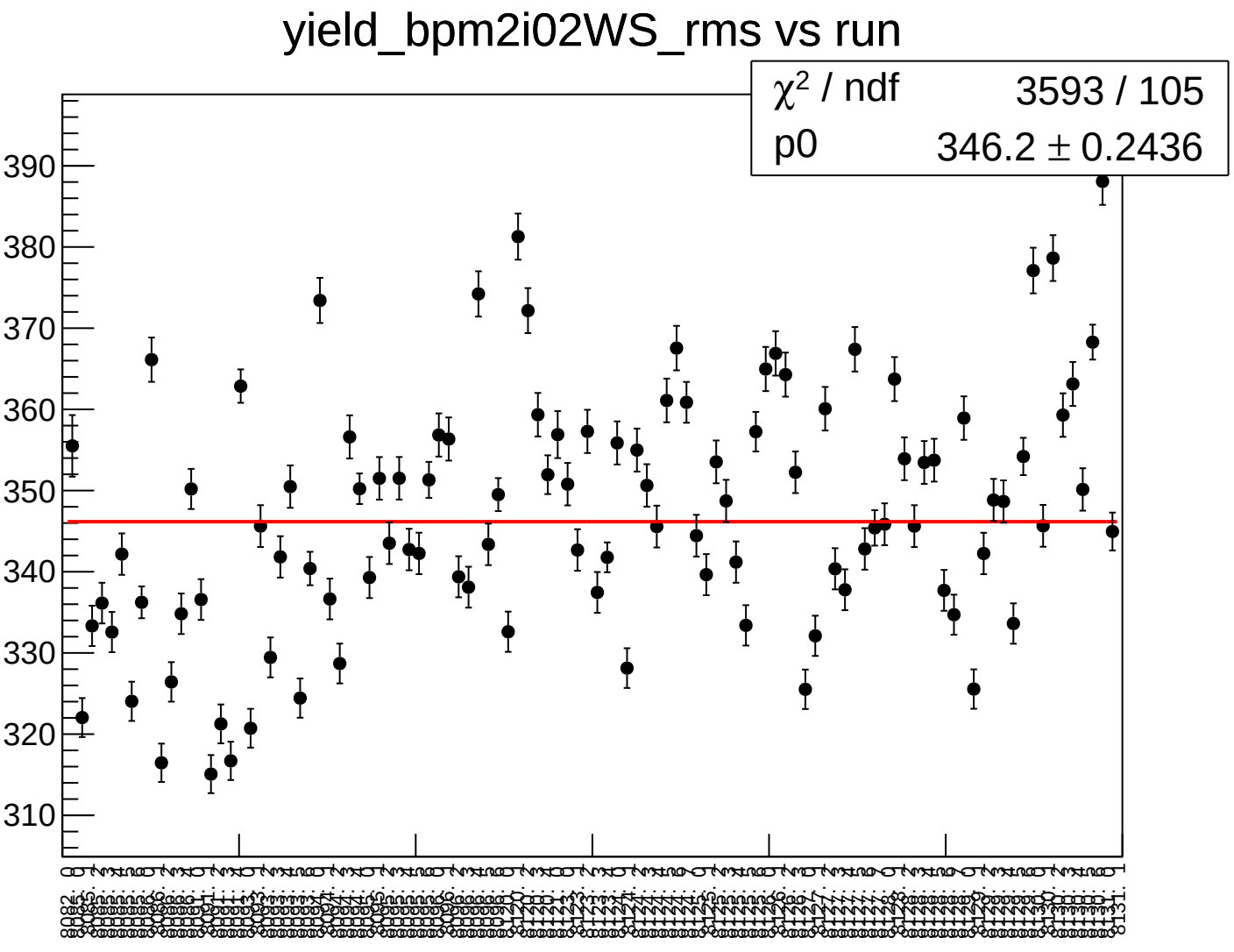

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 7009 / 105
p0 1.721e+05 ± 0.311
172.2
172.18
172.16
172.14
172.12
172.1
172.08
pull
Entries 106
Mean 1680
Std Dev 0
15
10
5
0
−5
−10
−15

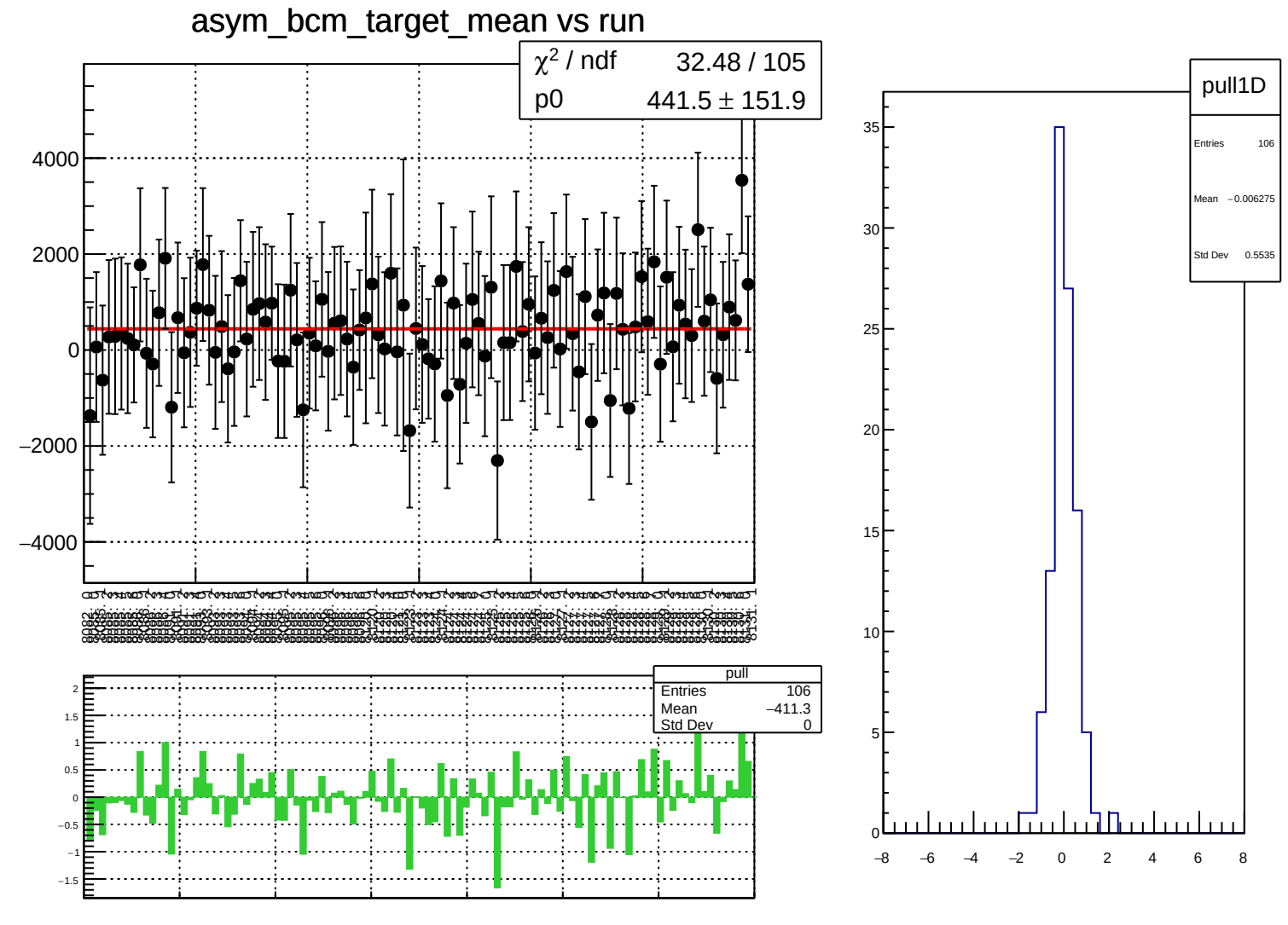

pull1D
Entries 106
Mean 0.6601
Std Dev 4.859
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

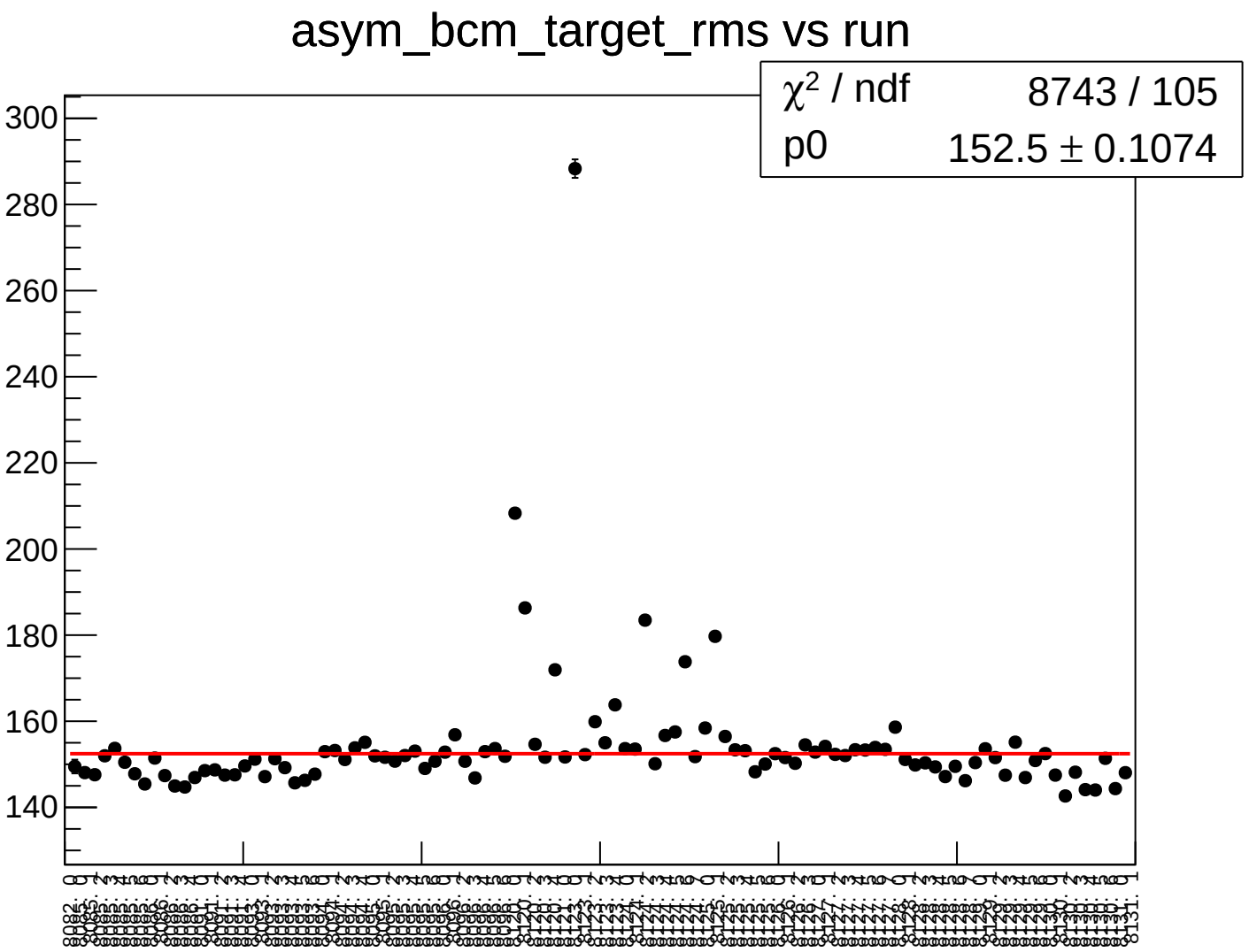

yield_bpm2i01WS_rms vs run
χ² / ndf 3558 / 105
p0 312.5 ± 0.2199
360
350
340
330
320
310
300
290
280

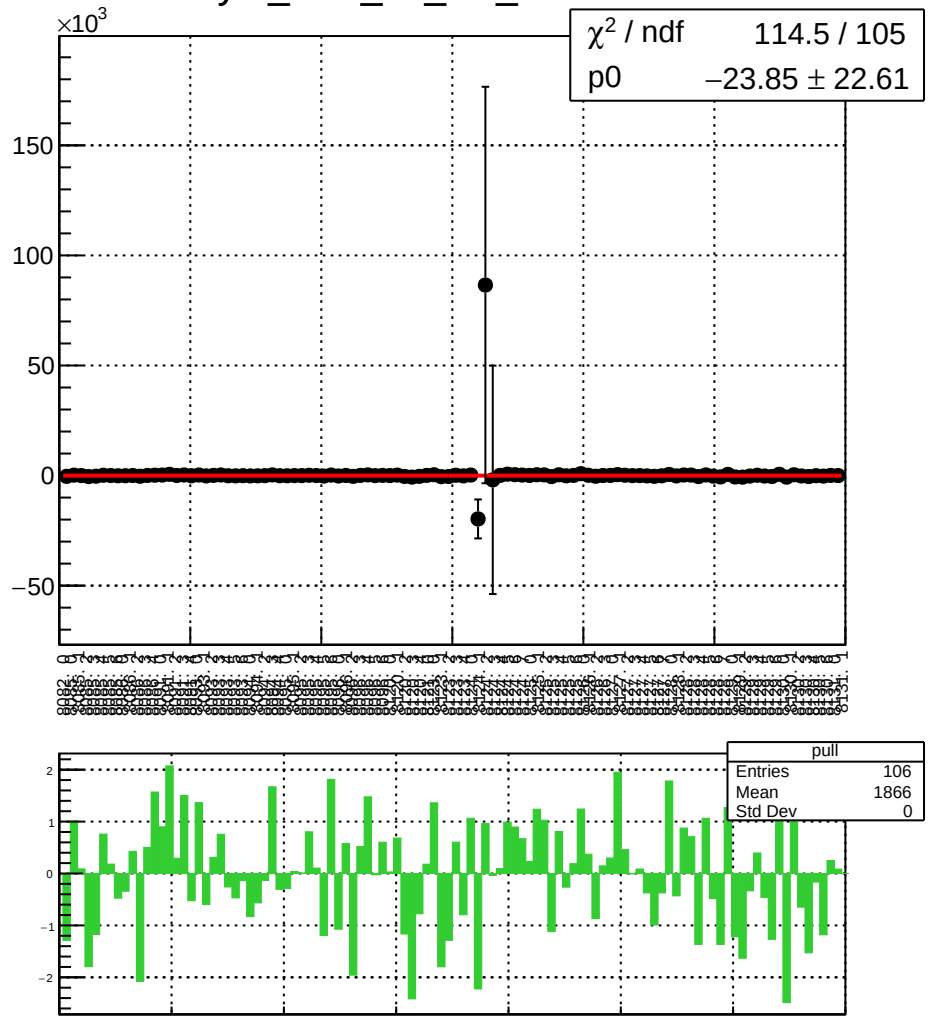

yield_bpm2i02WS_mean vs run
×10^3
189.2
189.15
189.1
189.05
189
188.95
188.9
188.85
χ² / ndf 3.615e+04 / 105
p0 1.89e+05 ± 0.3445
pull
Entries 106
Mean 3142
Std Dev 0
50
40
30
20
10
0
−10
−20
−30
−40

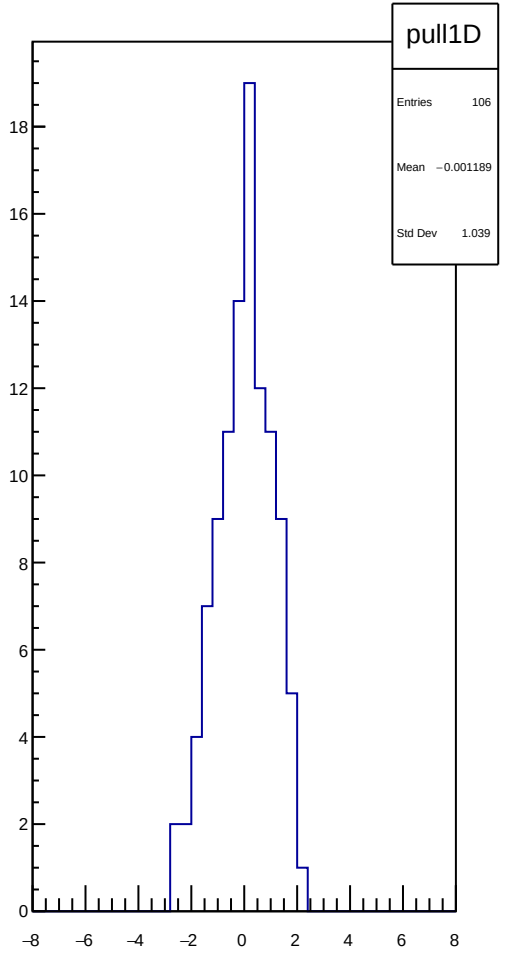

pull1D
Entries 106
Mean −0.5948
Std Dev 3.828
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8


yield_bpm2i02WS_rms vs run
χ² / ndf 3593 / 105
p0 346.2 ± 0.2436
390
380
370
360
350
340
330
320
310


asym_bcm_target_mean vs run
χ² / ndf 32.48 / 105
p0 441.5 ± 151.9
4000
2000
0
−2000
−4000
pull
Entries 106
Mean −411.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 106
Mean −0.006275
Std Dev 0.5535
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 8743 / 105
p0 152.5 ± 0.1074
300
280
260
240
220
200
180
160
140


asym_bcm_an_diff_mean vs run
×10^3
χ² / ndf 114.5 / 105
p0 −23.85 ± 22.61
150
100
50
0
−50
pull
Entries 106
Mean 1866
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 106
Mean −0.001189
Std Dev 1.039
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
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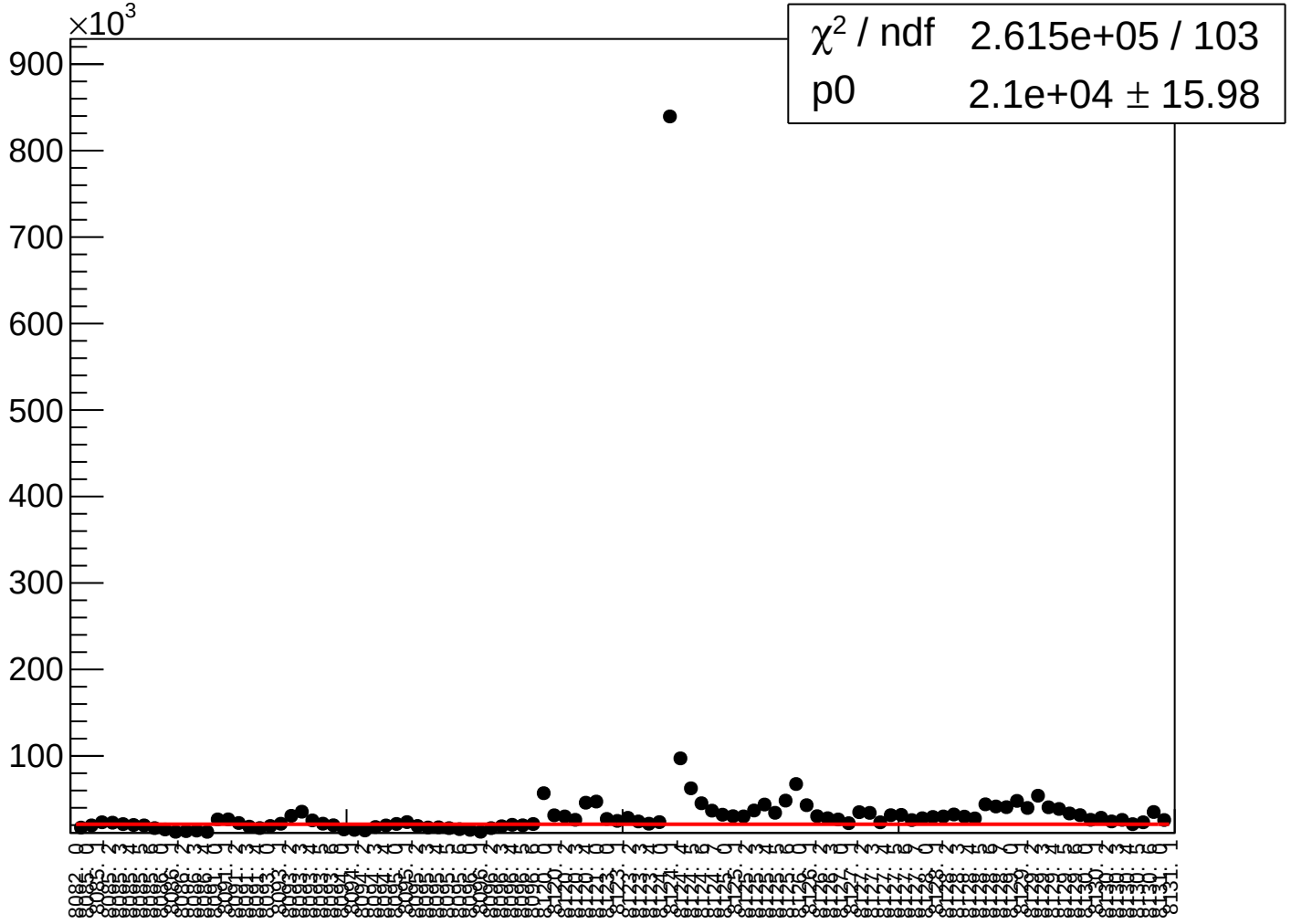
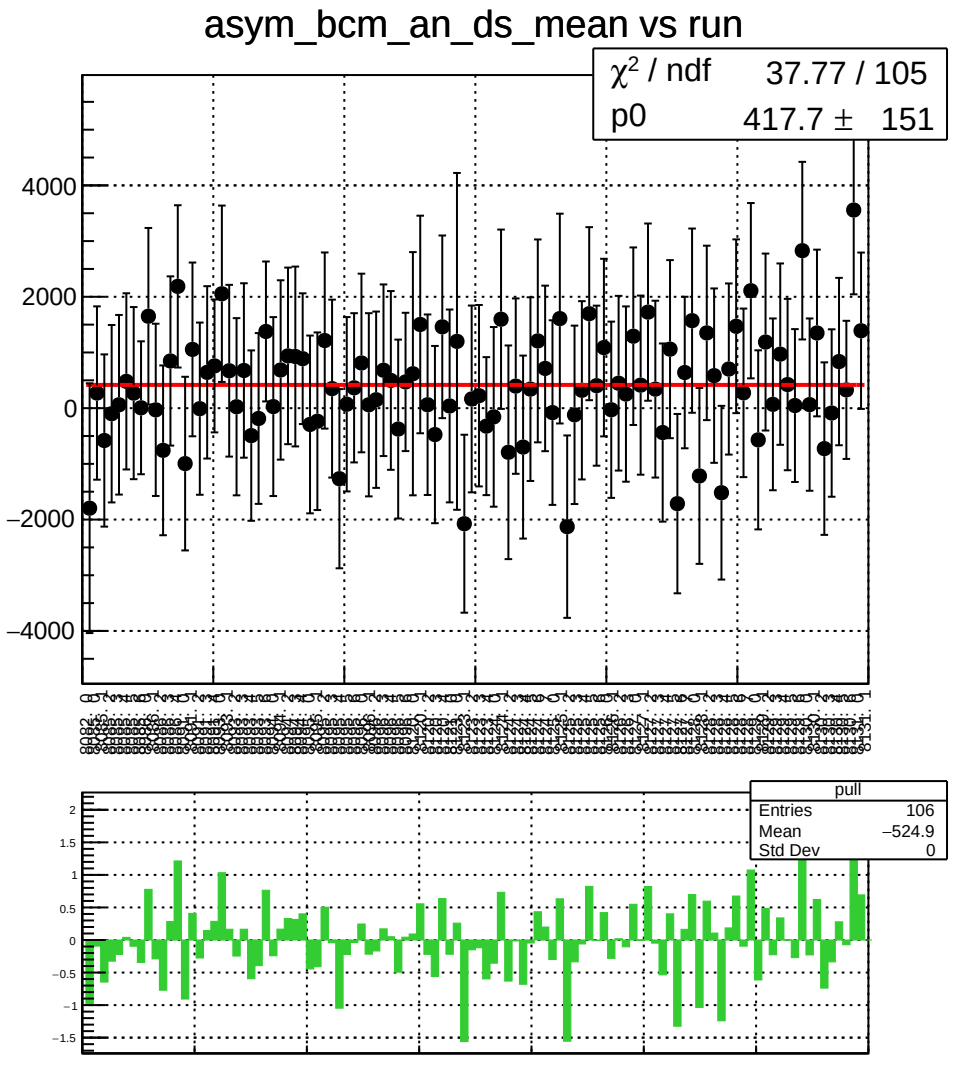
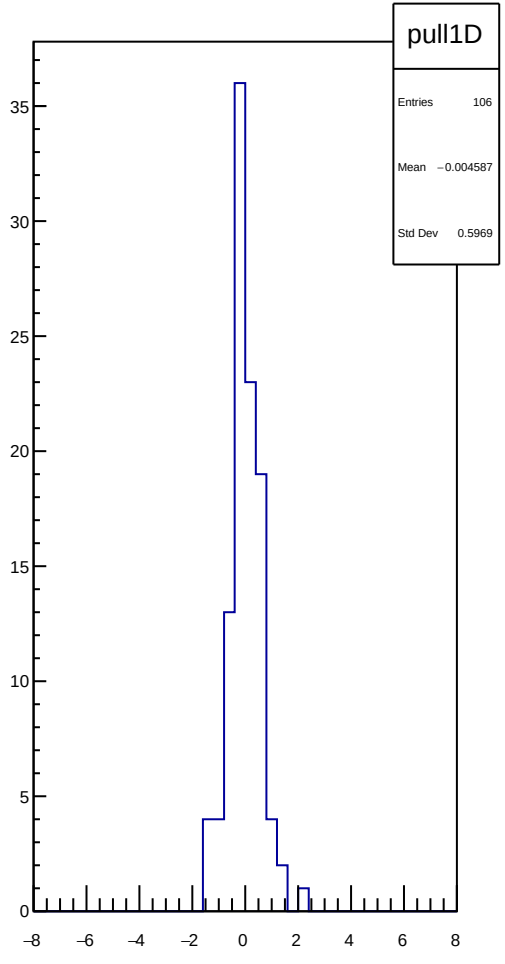
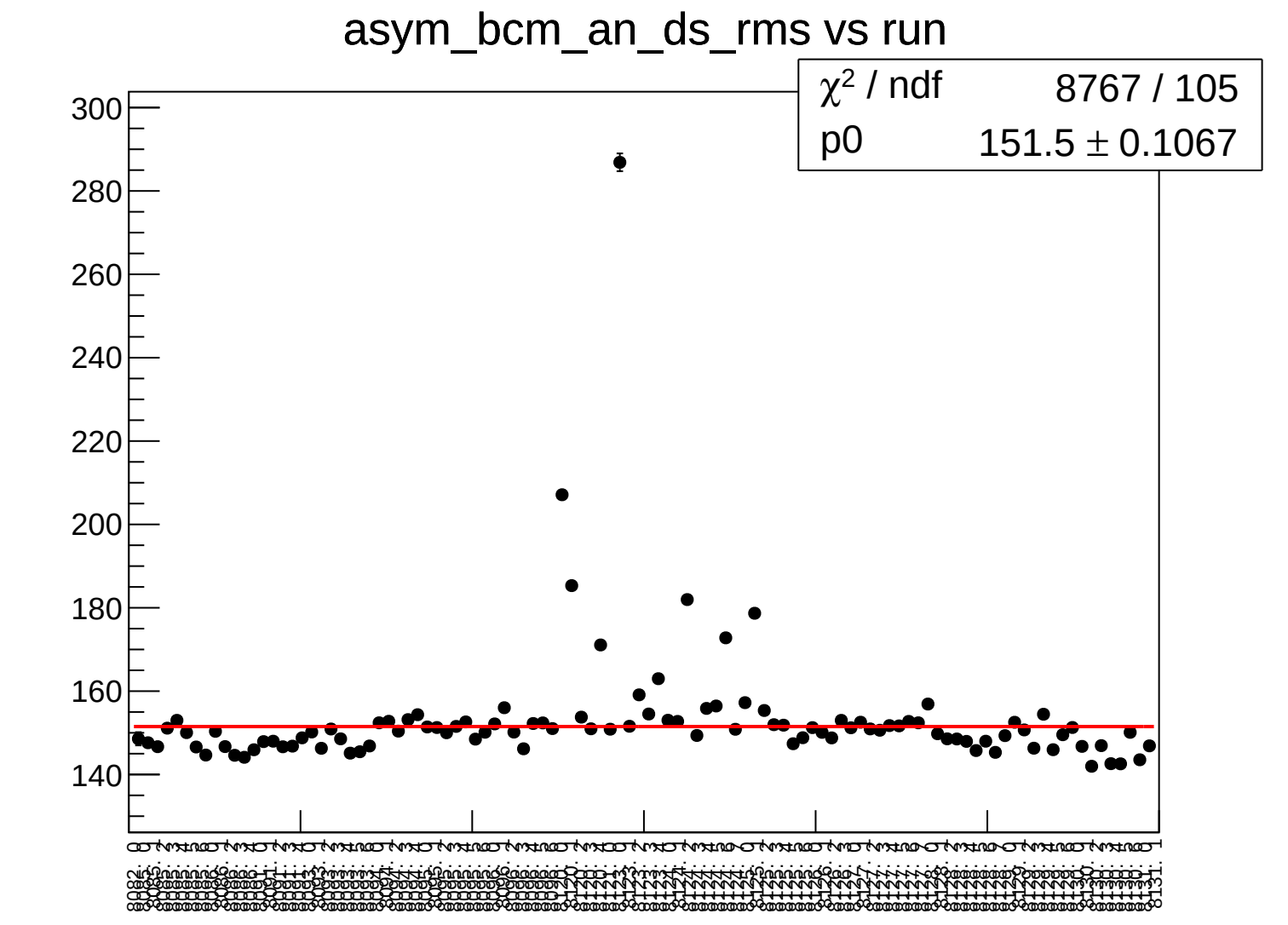
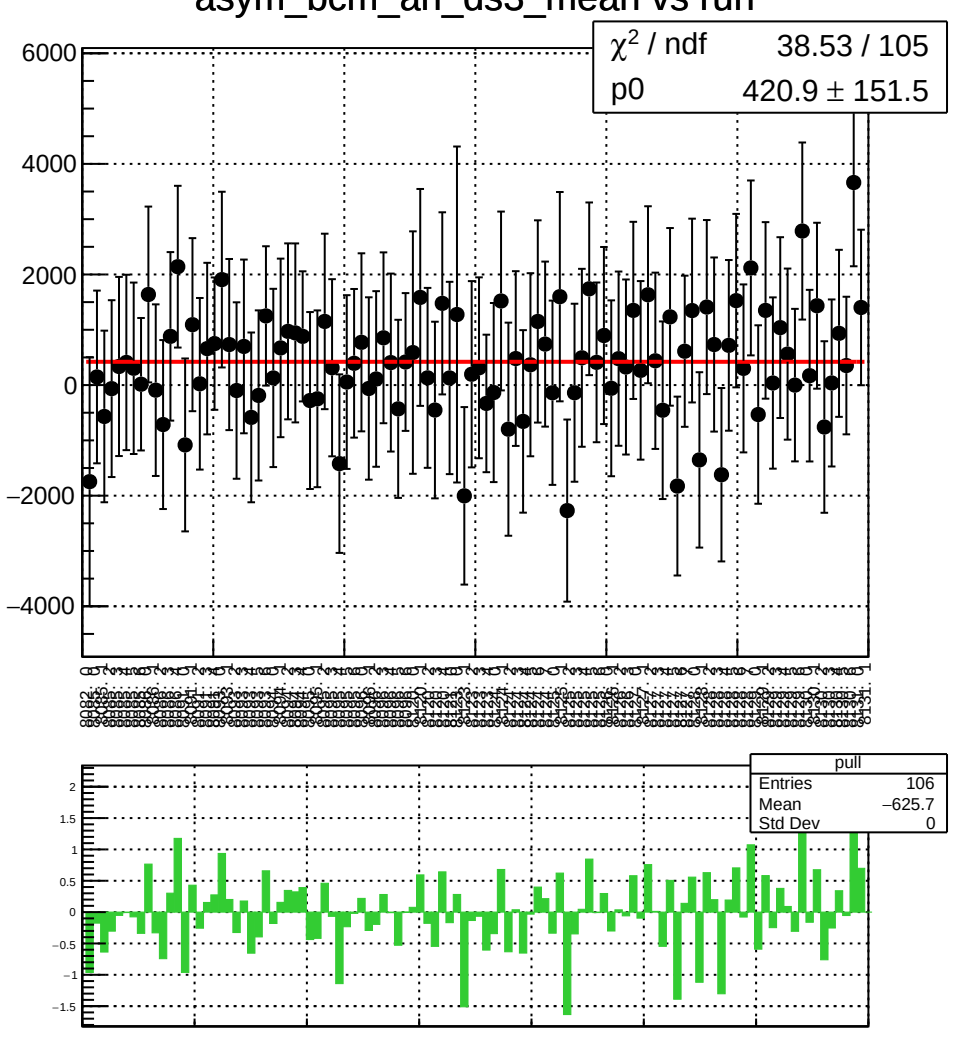
0
2
4
6
8

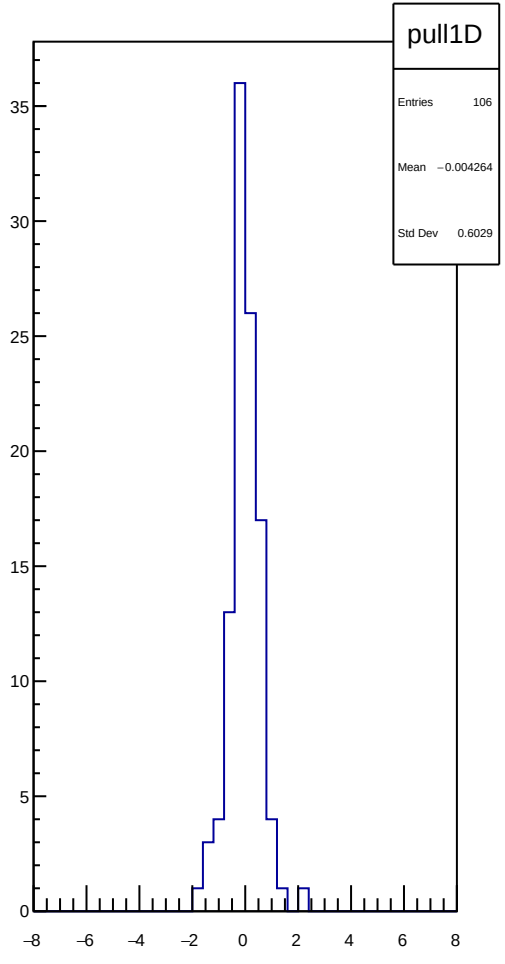

asym_bcm_an_diff_rms vs run
×10^3
900
800
700
600
500
400
300
200
100
χ² / ndf 2.615e+05 / 103
p0 2.1e+04 ± 15.98


asym_bcm_an_ds_mean vs run
χ² / ndf 37.77 / 105
p0 417.7 ± 151
4000
2000
0
−2000
−4000
pull
Entries 106
Mean −524.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 106
Mean −0.004587
Std Dev 0.5969
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 8767 / 105
p0 151.5 ± 0.1067
300
280
260
240
220
200
180
160
140


asym_bcm_an_ds3_mean vs run
χ² / ndf 38.53 / 105
p0 420.9 ± 151.5
6000
4000
2000
0
−2000
−4000
pull
Entries 106
Mean −625.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 106
Mean −0.004264
Std Dev 0.6029
35
30
25
20
15
10
5
0
−8
−6
−4
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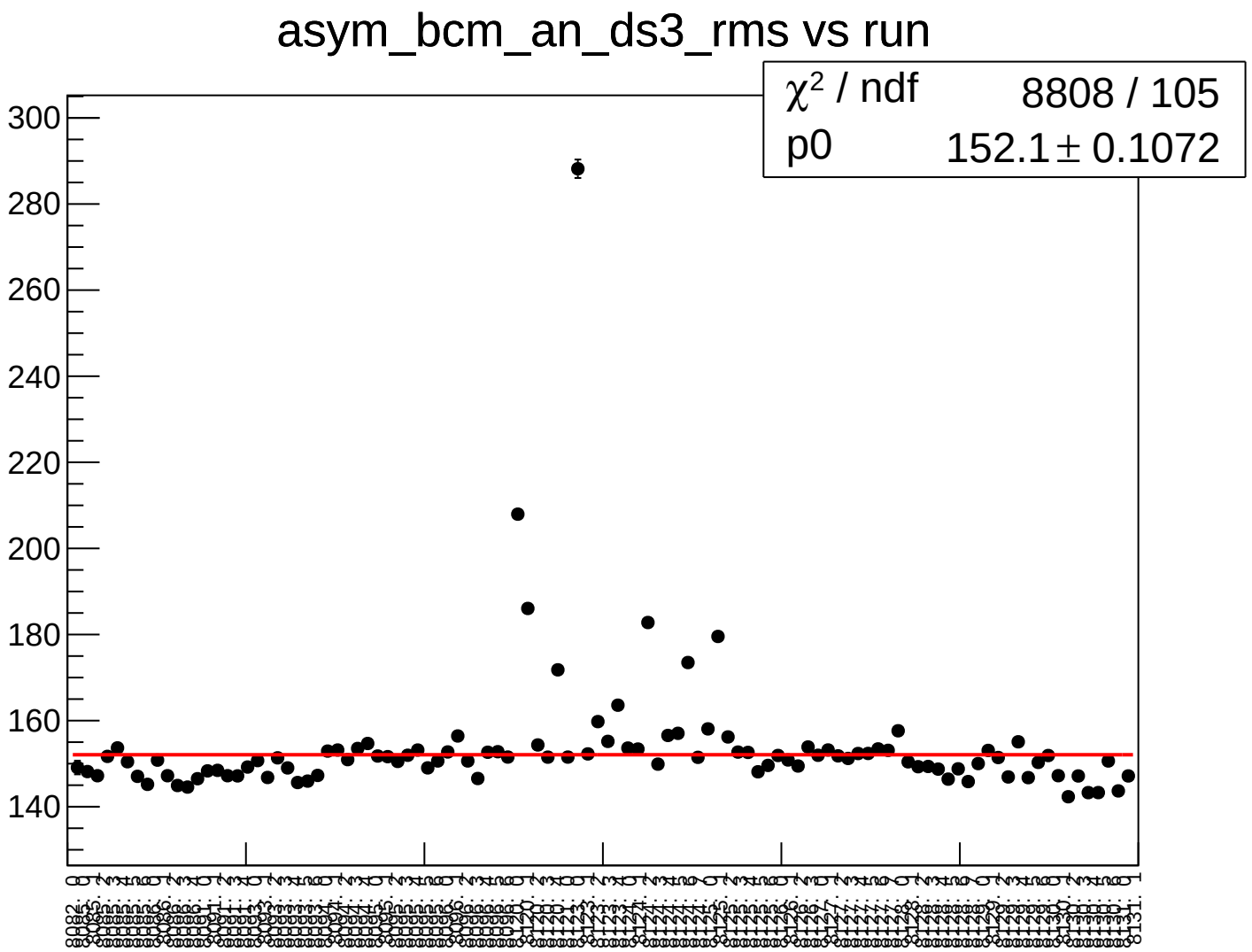
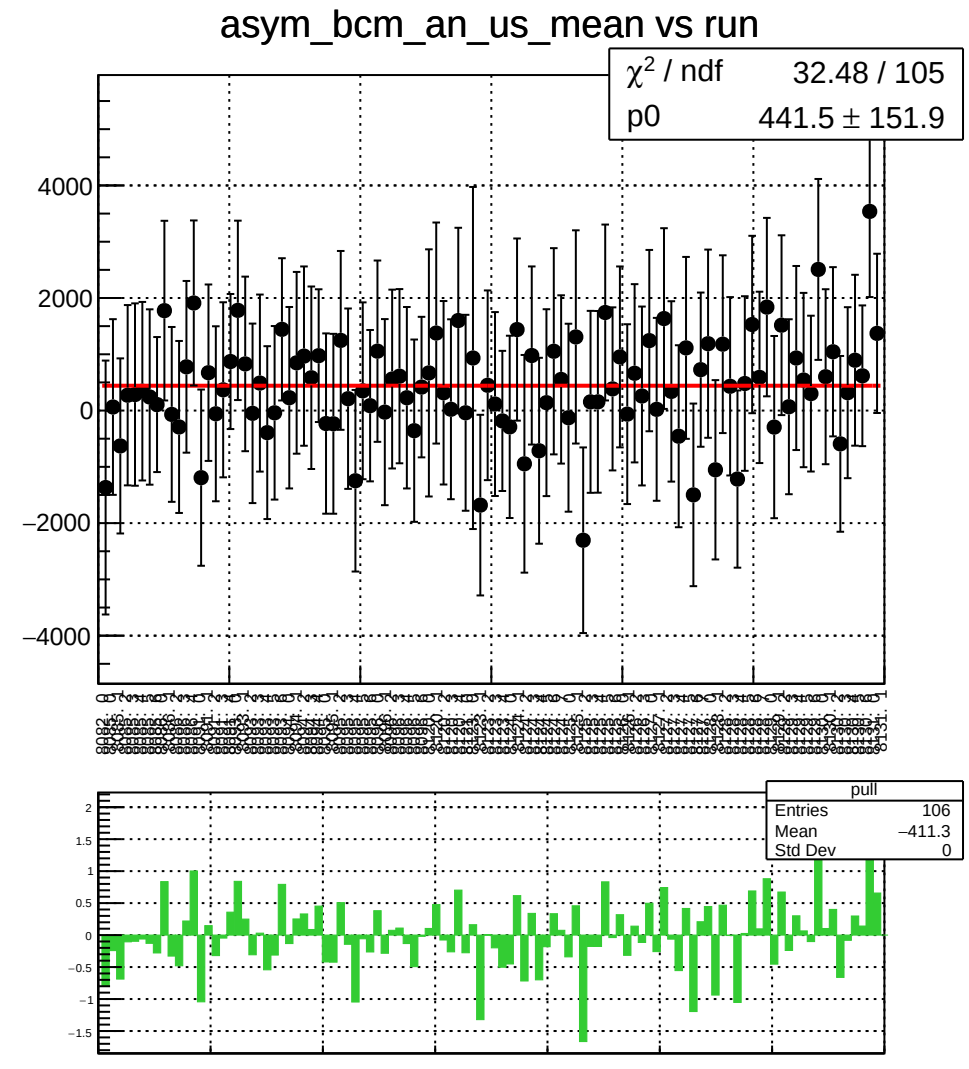
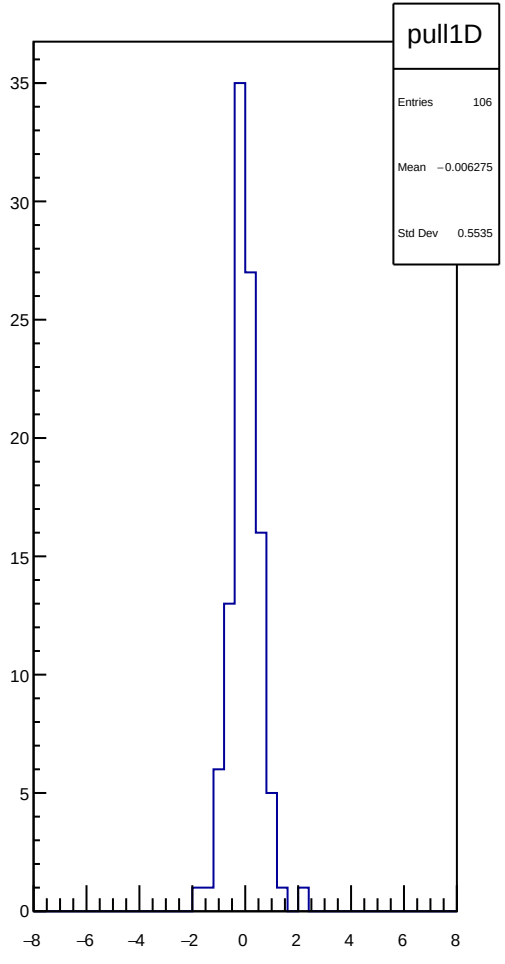
0
2
4
6
8


asym_bcm_an_ds3_rms vs run
χ² / ndf 8808 / 105
p0 152.1 ± 0.1072
300
280
260
240
220
200
180
160
140


asym_bcm_an_us_mean vs run
χ² / ndf 32.48 / 105
p0 441.5 ± 151.9
4000
2000
0
−2000
−4000
pull
Entries 106
Mean −411.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 106
Mean −0.006275
Std Dev 0.5535
35
30
25
20
15
10
5
0
−8
−6
−4
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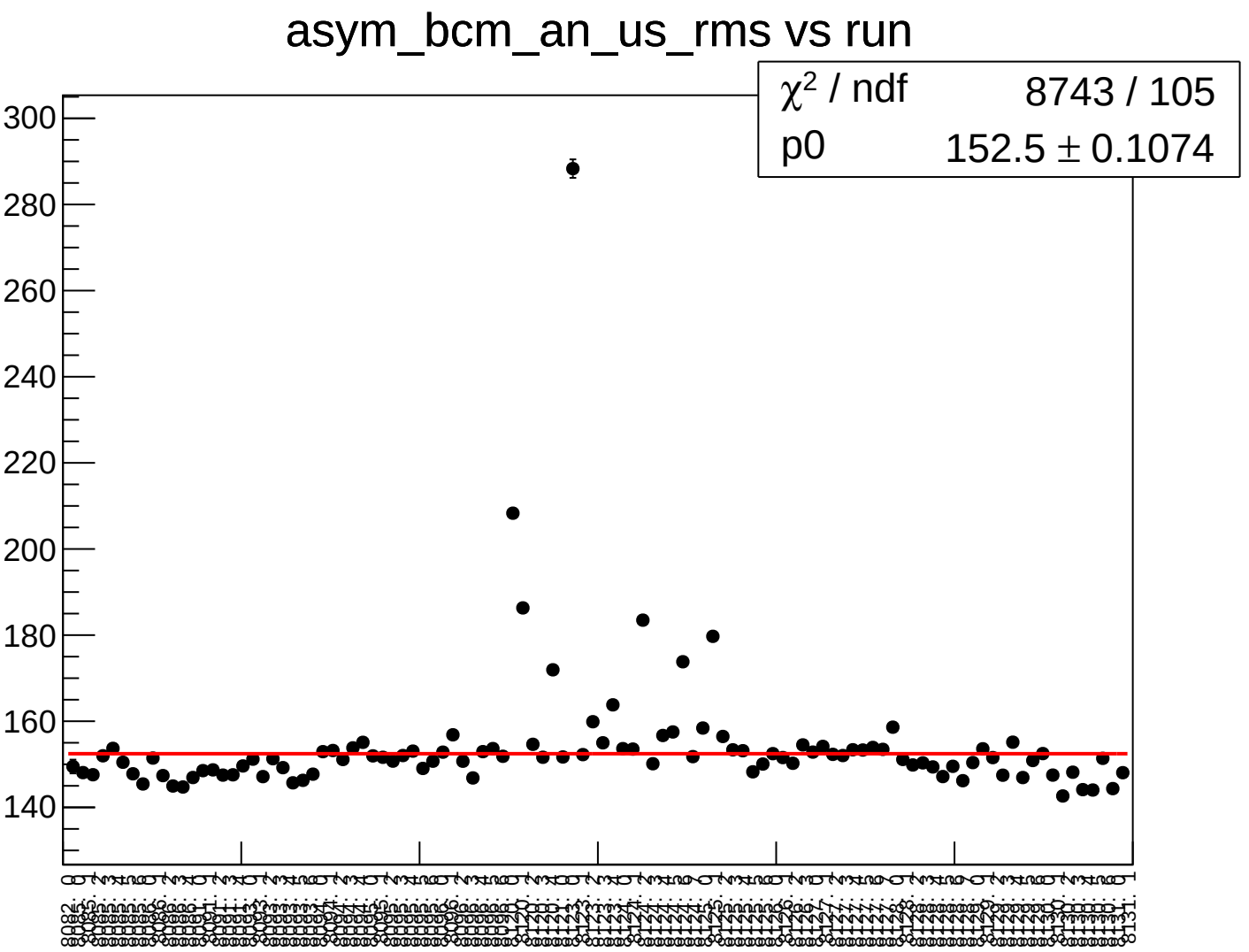
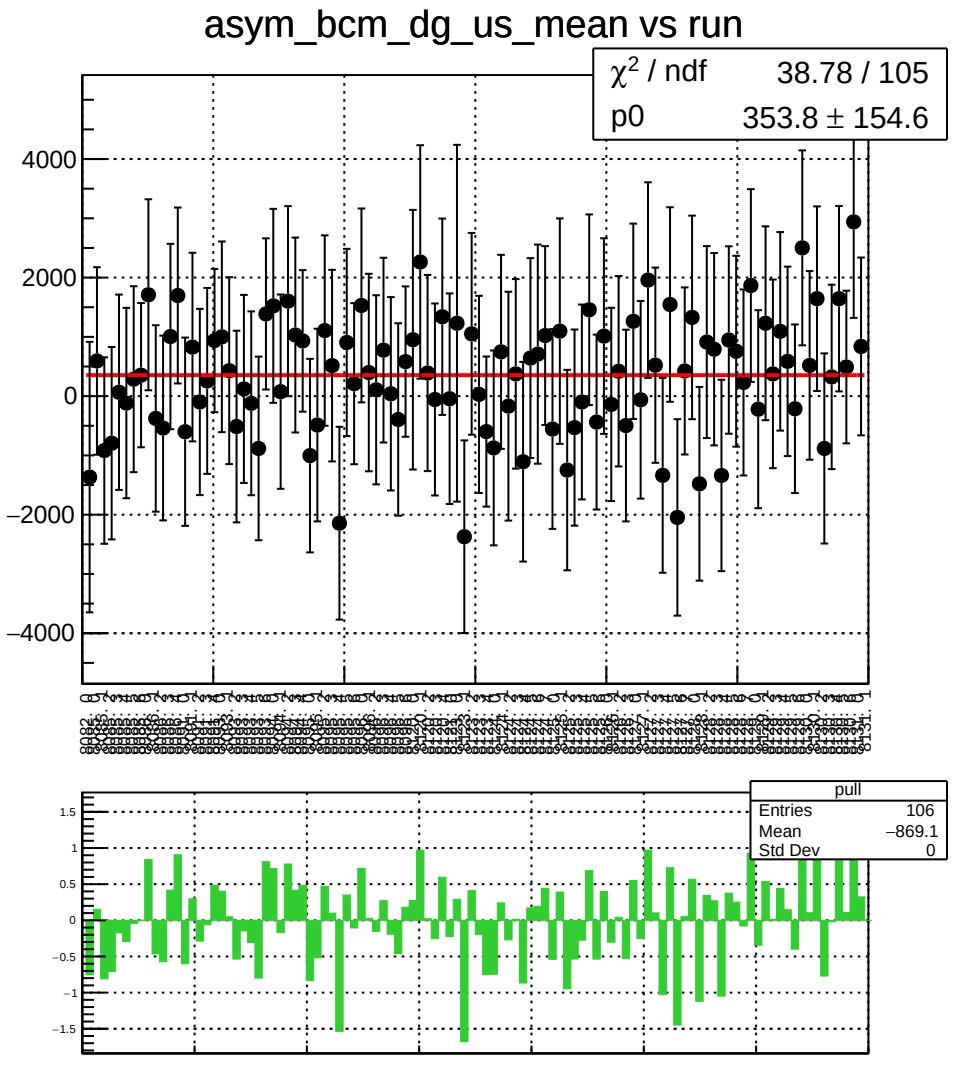
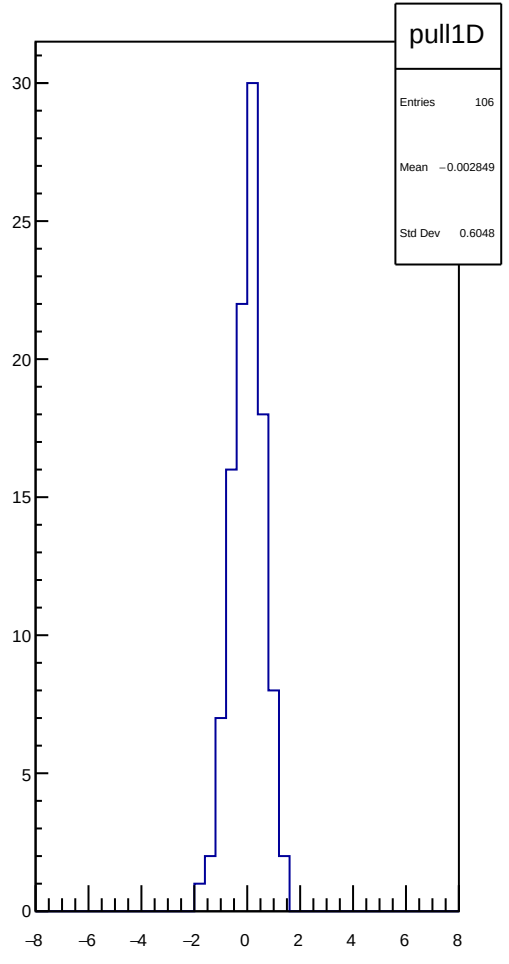
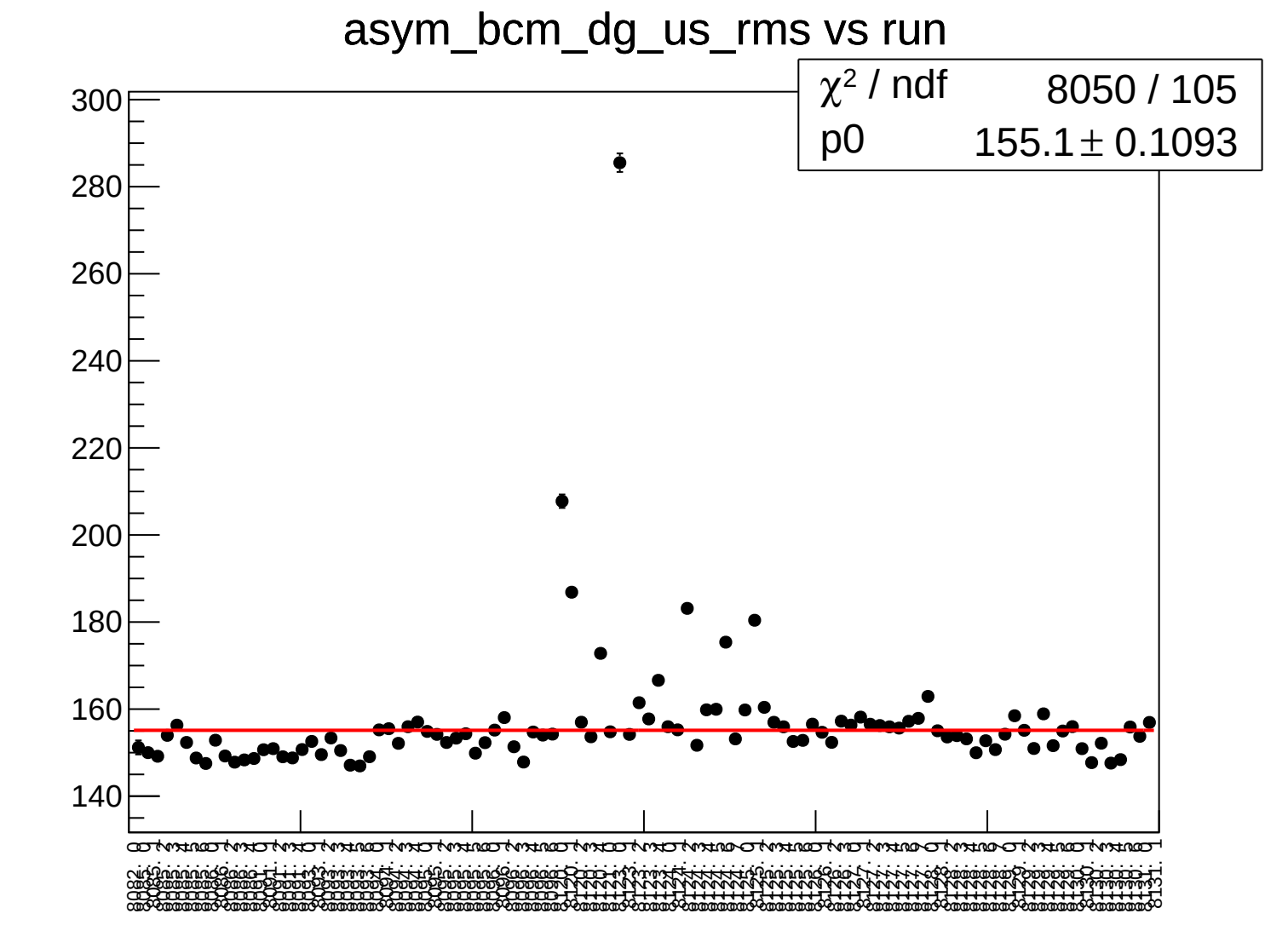
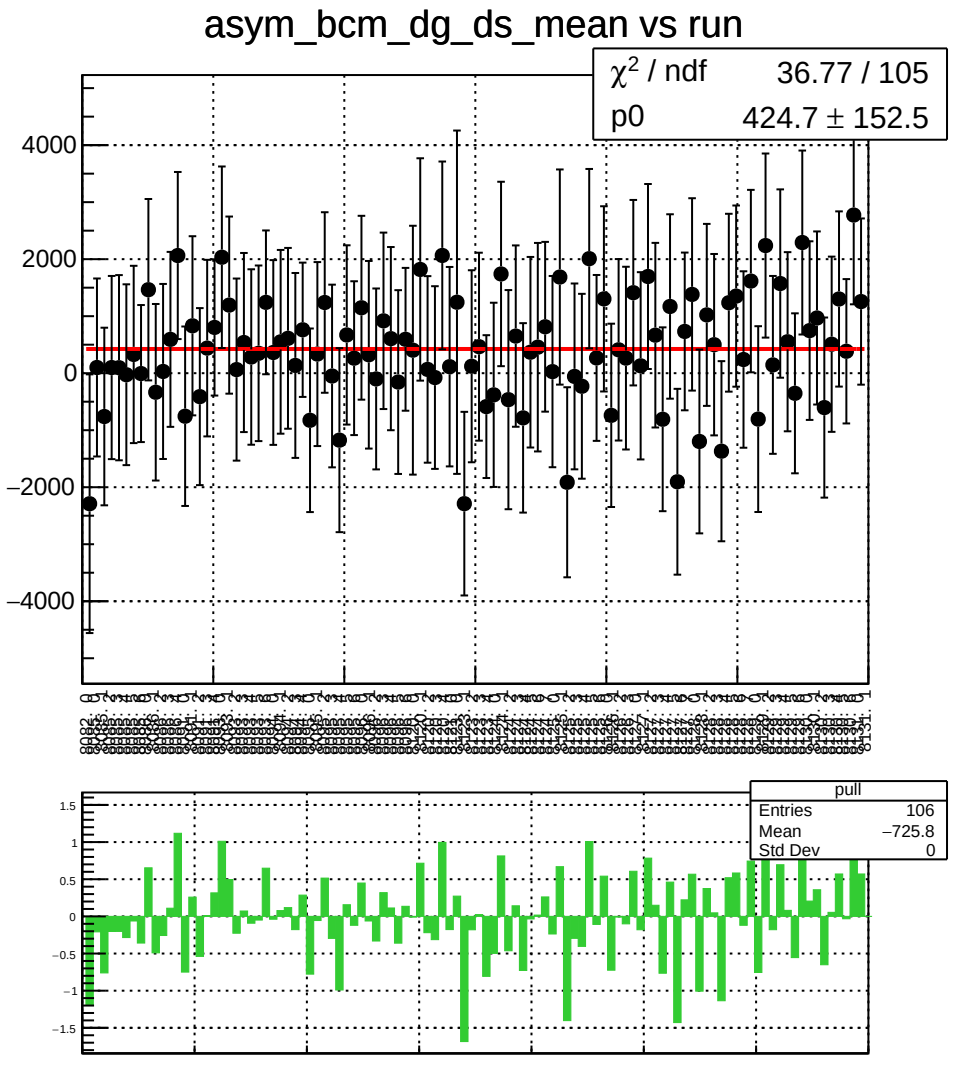
0
2
4
6
8

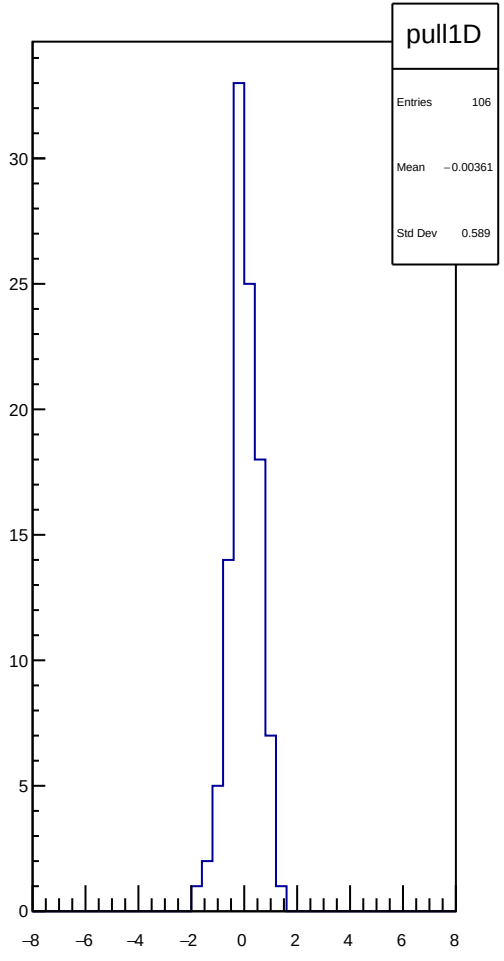

asym_bcm_an_us_rms vs run
χ² / ndf 8743 / 105
p0 152.5 ± 0.1074
300
280
260
240
220
200
180
160
140

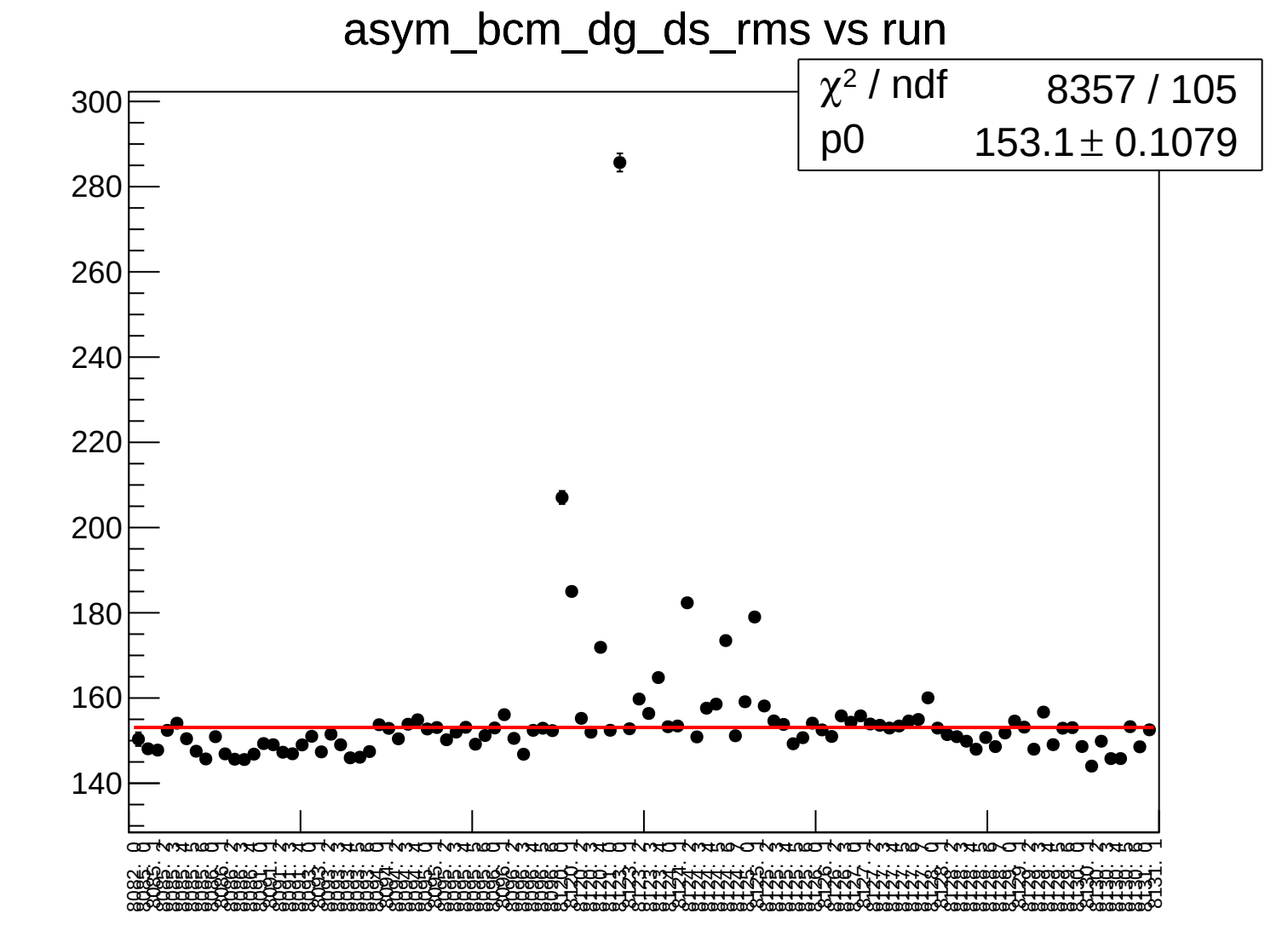

asym_bcm_dg_us_mean vs run
χ² / ndf 38.78 / 105
p0 353.8 ± 154.6
4000
2000
0
−2000
−4000
pull
Entries 106
Mean −869.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

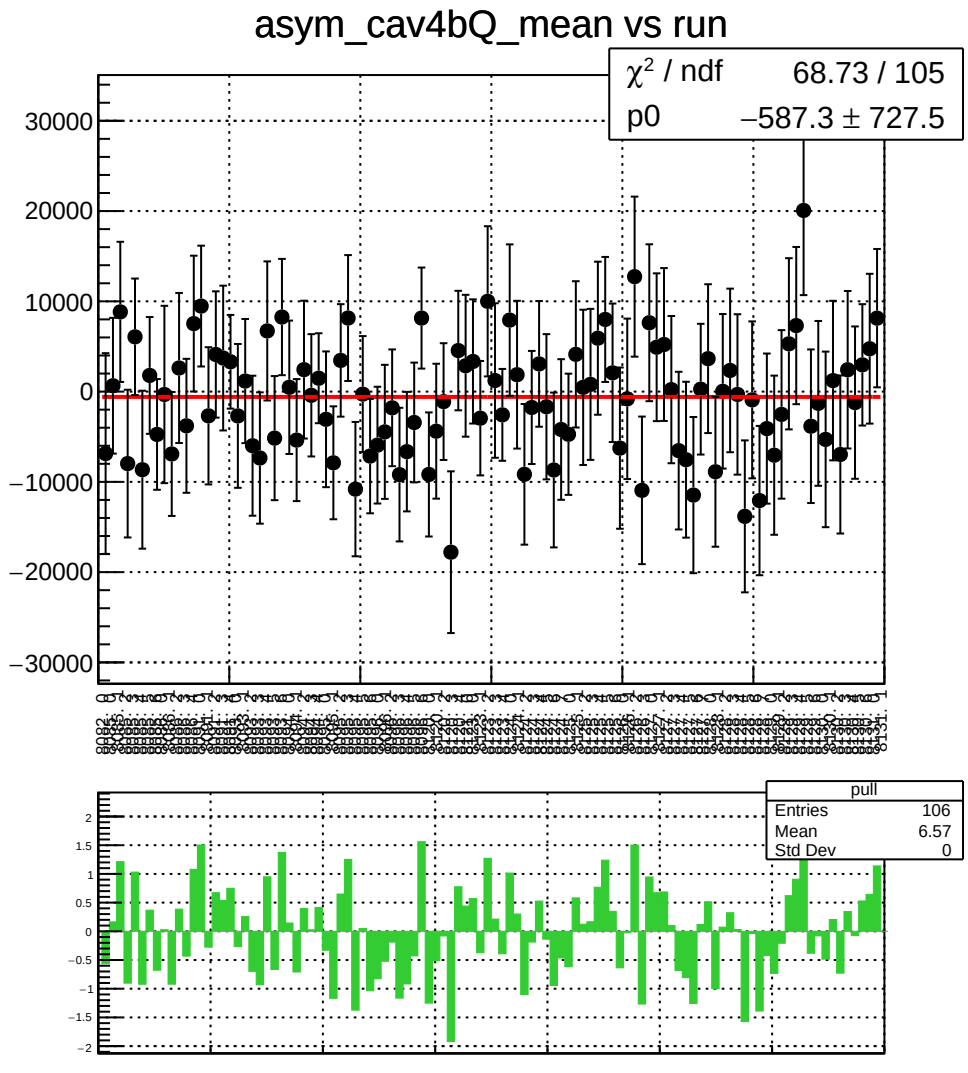

pull1D
Entries 106
Mean −0.002849
Std Dev 0.6048
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

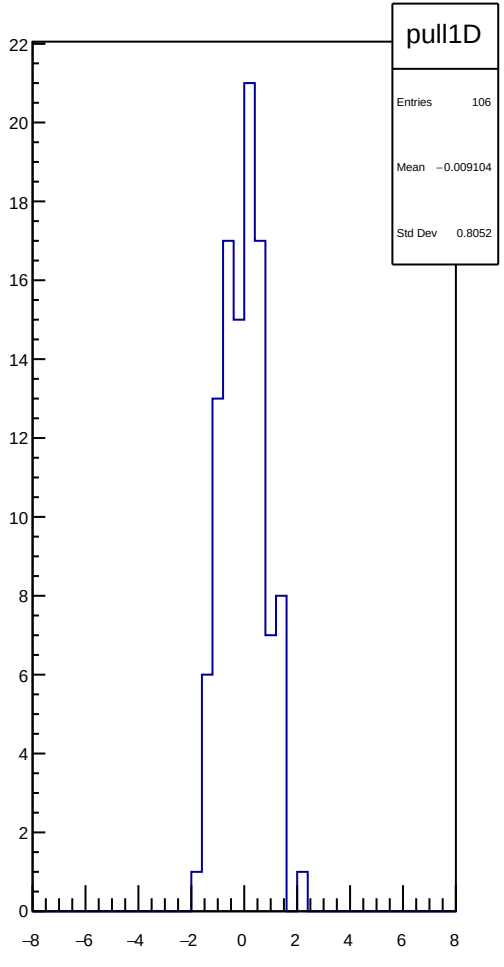

asym_bcm_dg_us_rms vs run
χ² / ndf 8050 / 105
p0 155.1 ± 0.1093
300
280
260
240
220
200
180
160
140

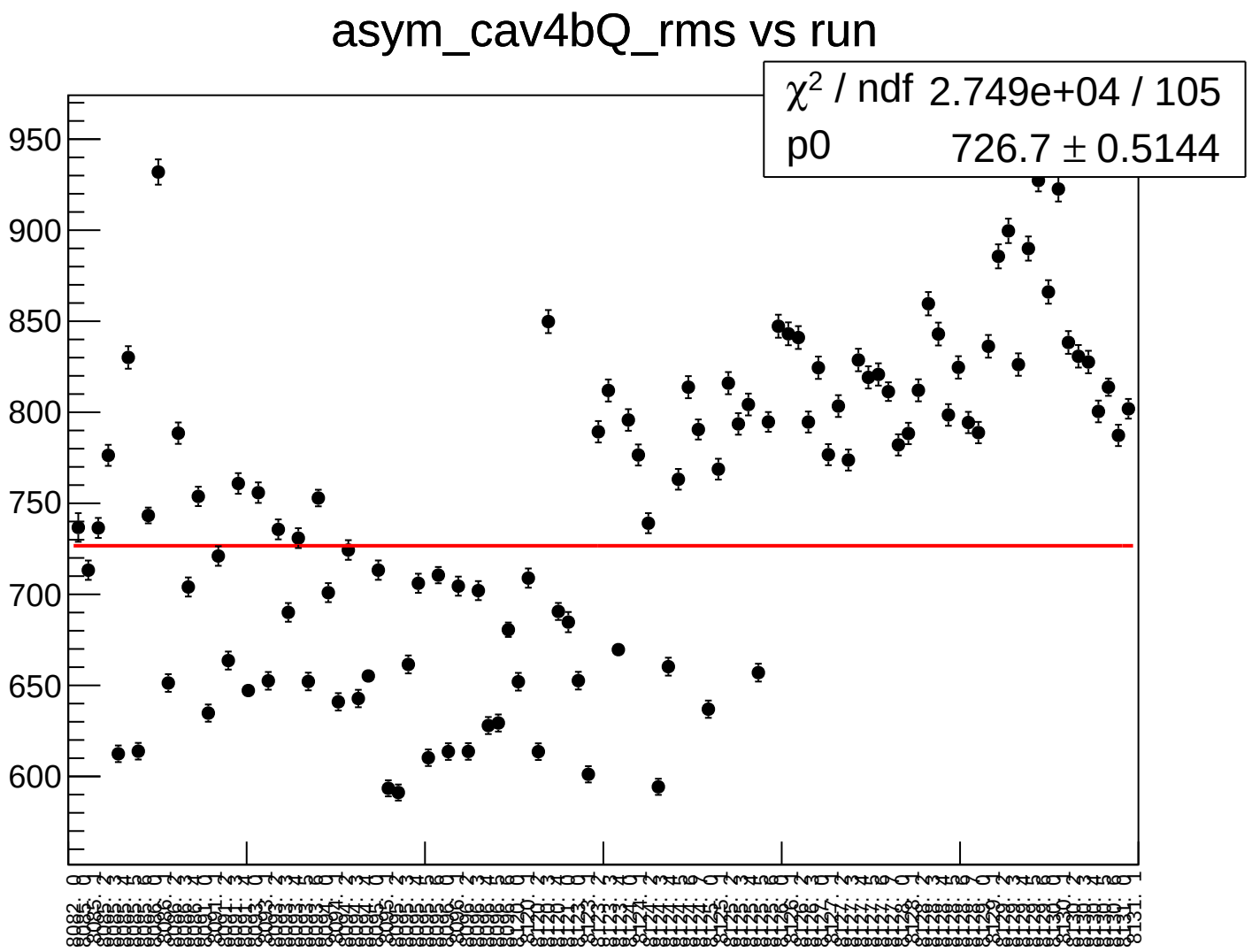

asym_bcm_dg_ds_mean vs run
χ² / ndf 36.77 / 105
p0 424.7 ± 152.5
4000
2000
0
−2000
−4000
pull
Entries 106
Mean −725.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

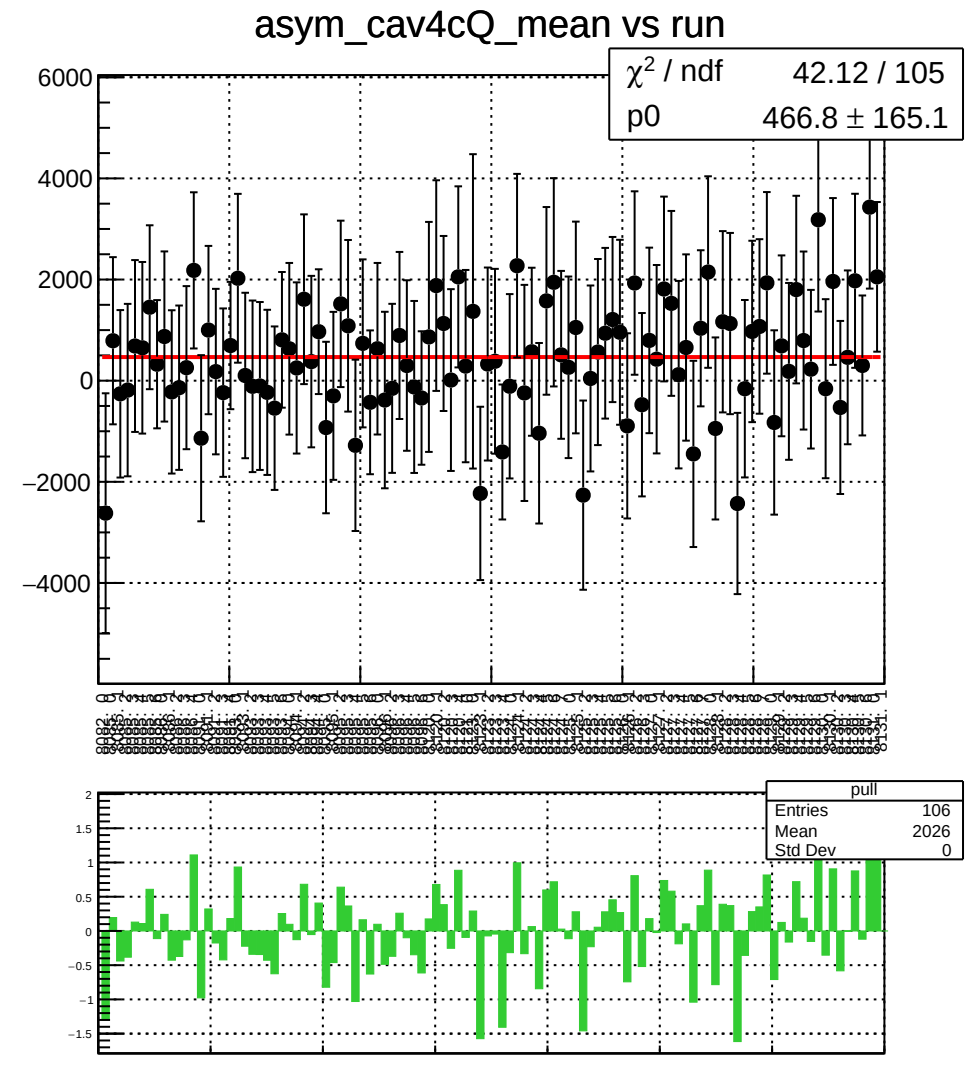

pull1D
Entries 106
Mean −0.00361
Std Dev 0.589
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

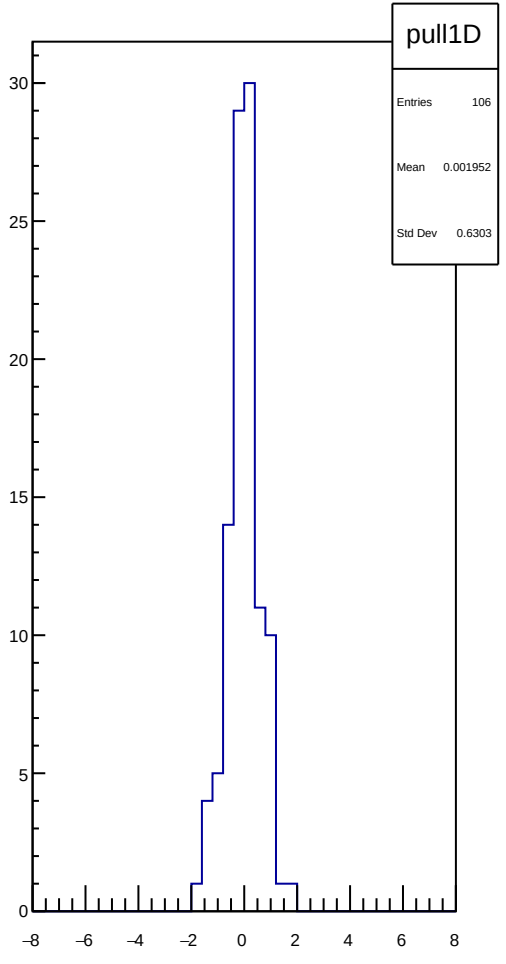

asym_bcm_dg_ds_rms vs run
χ² / ndf 8357 / 105
p0 153.1 ± 0.1079
300
280
260
240
220
200
180
160
140

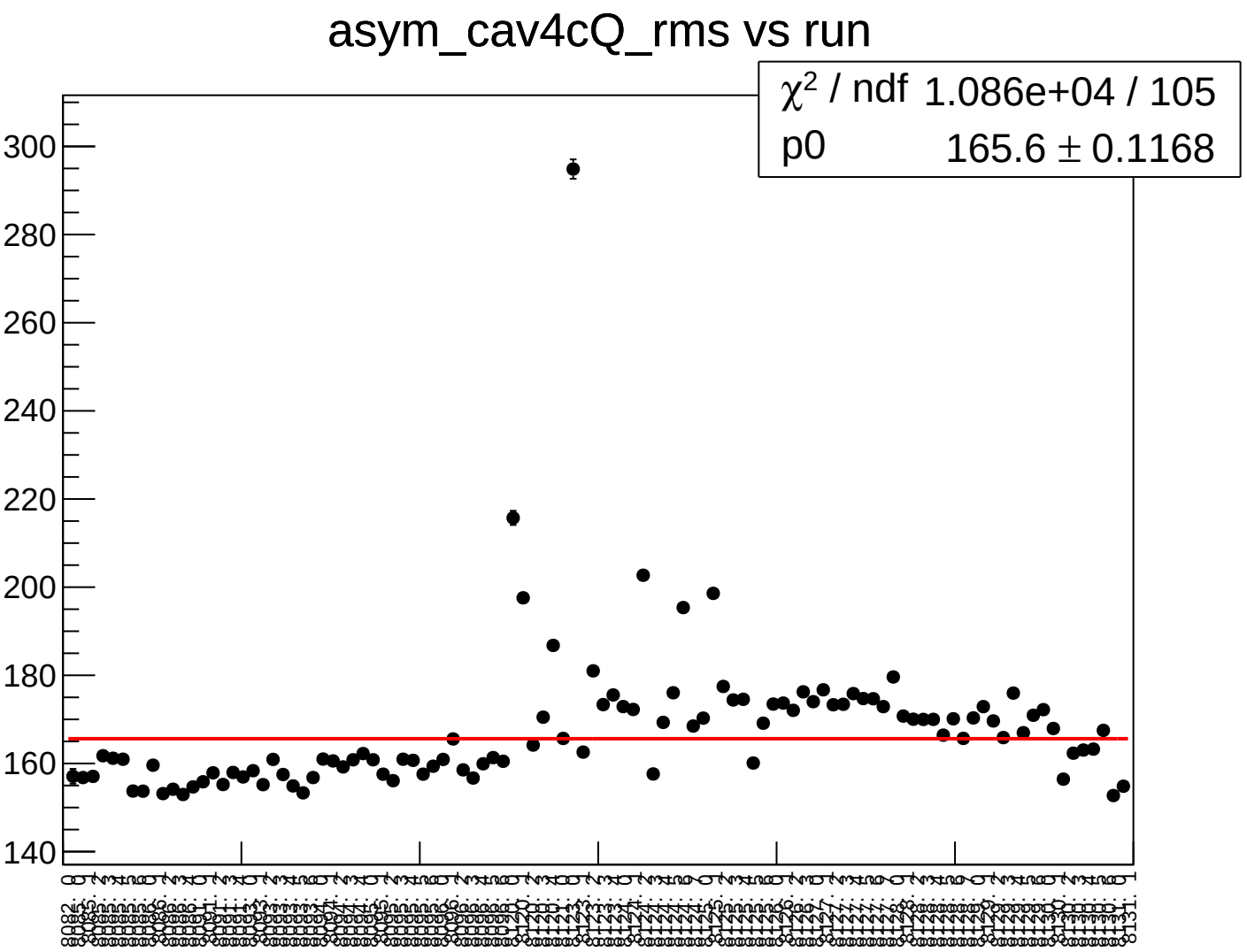

asym_cav4bQ_mean vs run
χ² / ndf 68.73 / 105
p0 −587.3 ± 727.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 106
Mean 6.57
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

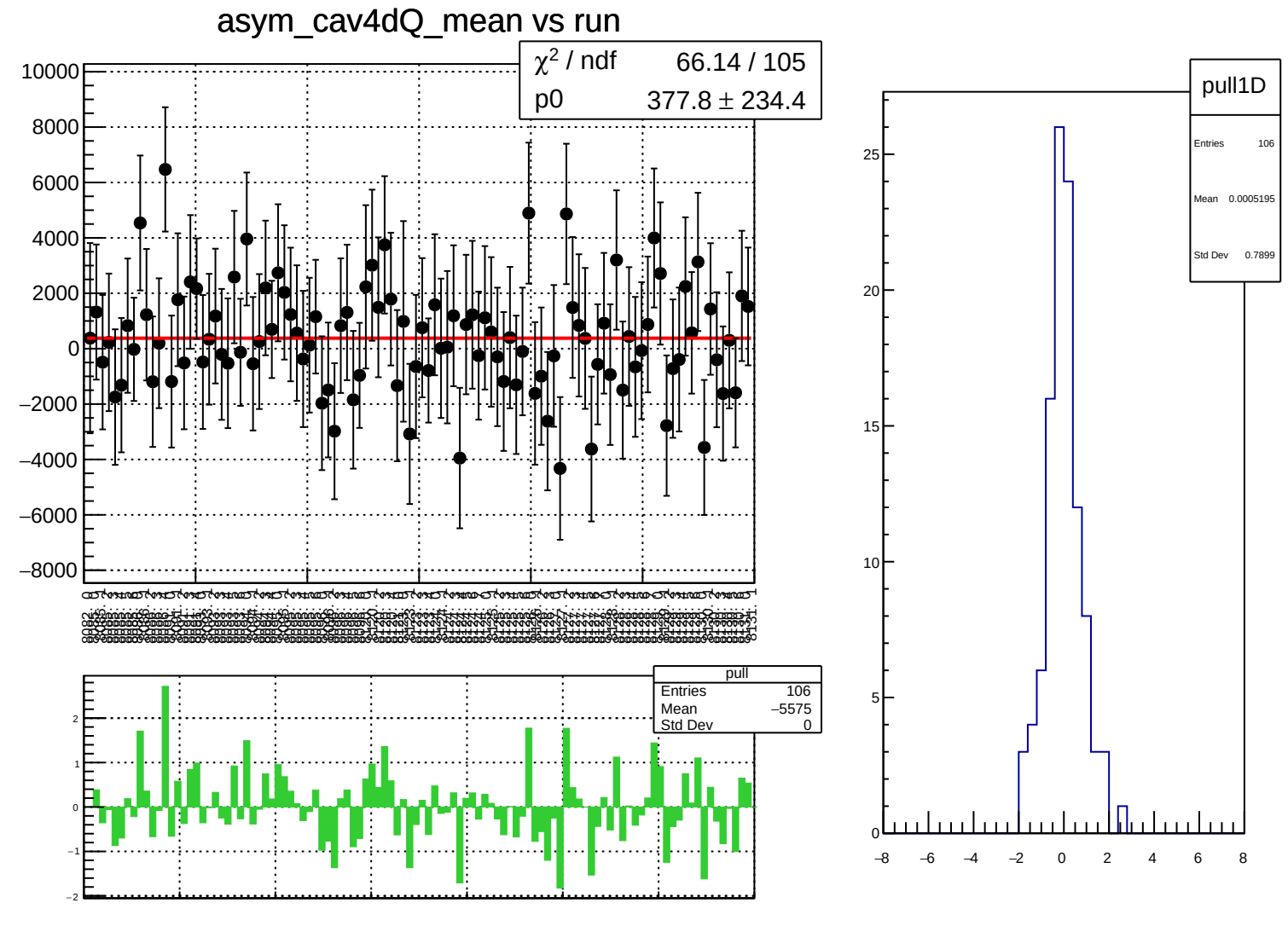

pull1D
Entries 106
Mean −0.009104
Std Dev 0.8052
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

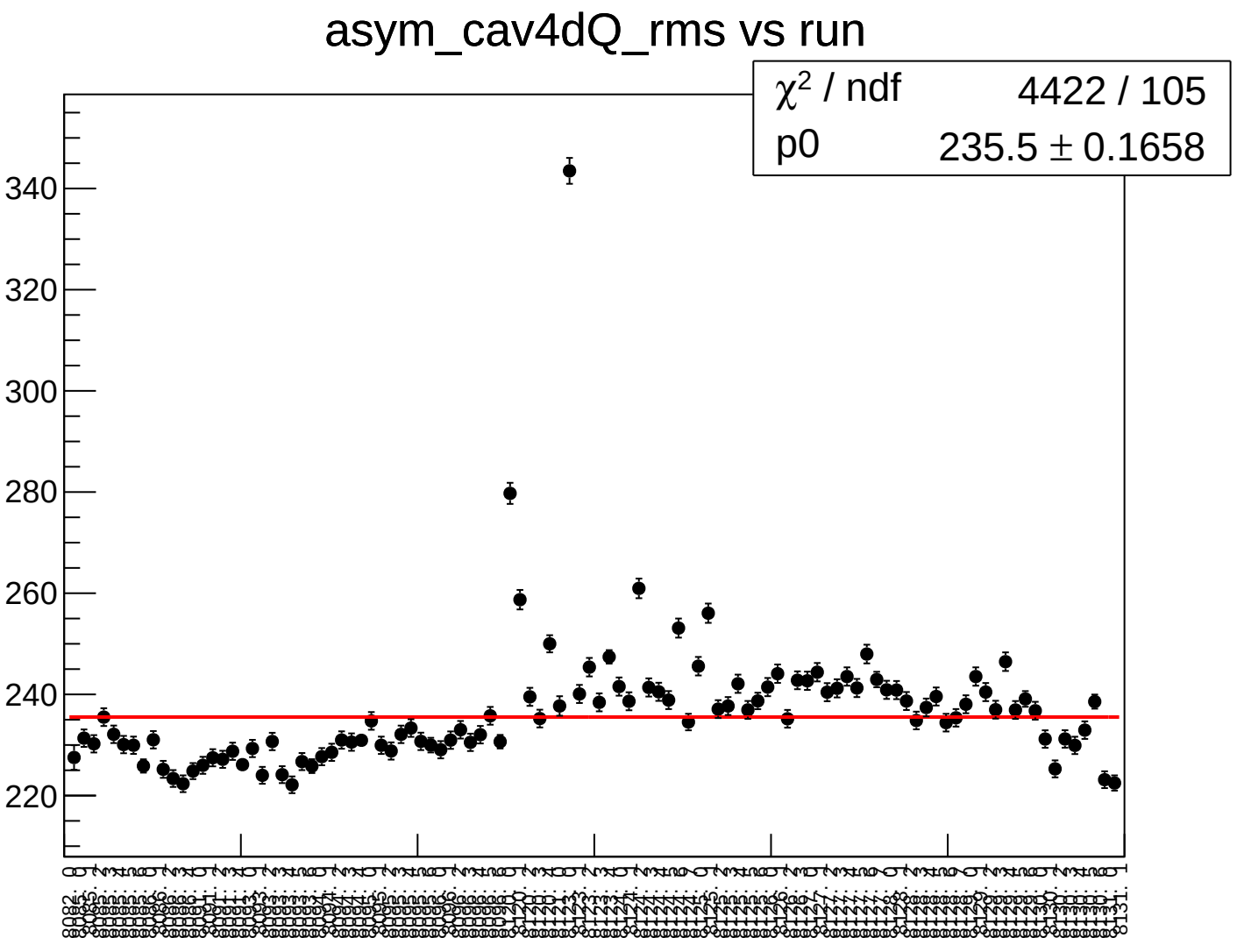

asym_cav4bQ_rms vs run
χ² / ndf 2.749e+04 / 105
p0 726.7 ± 0.5144
950
900
850
800
750
700
650
600

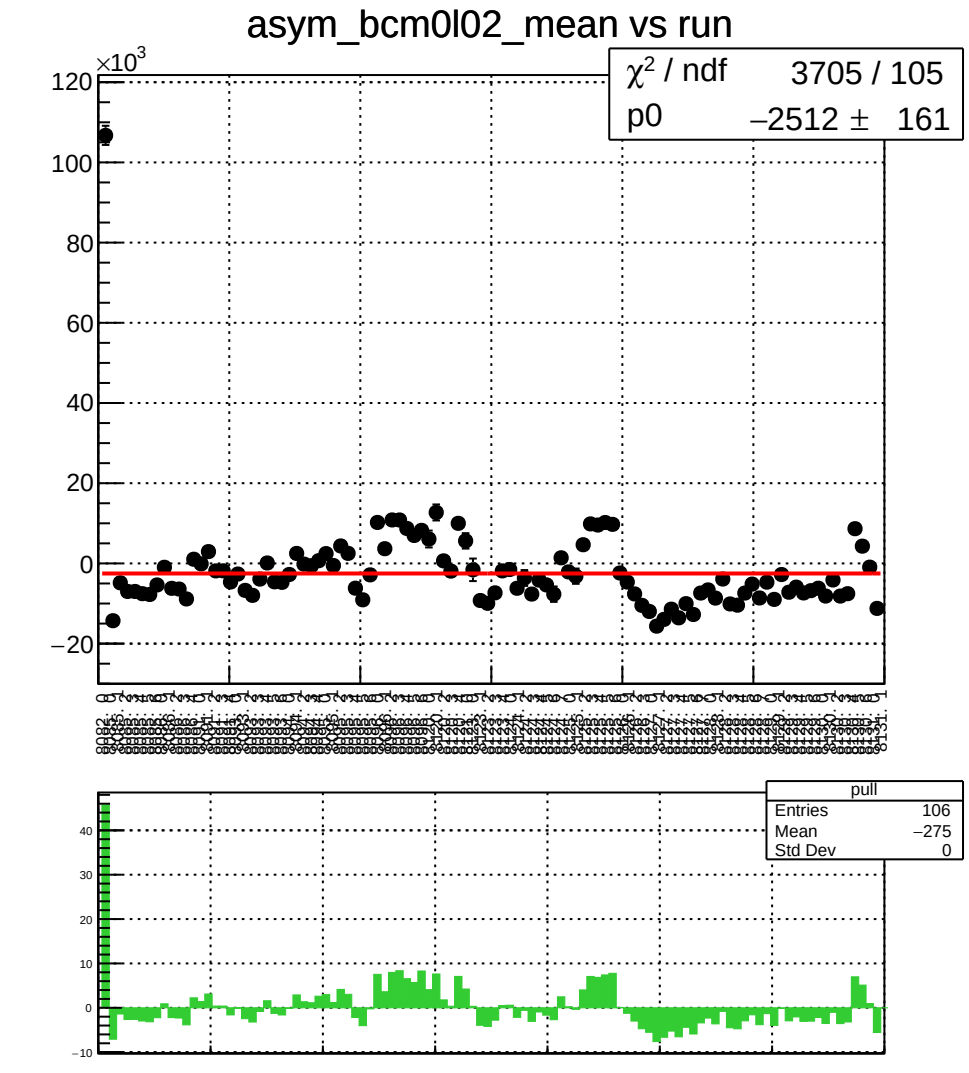

asym_cav4cQ_mean vs run
χ² / ndf 42.12 / 105
p0 466.8 ± 165.1
6000
4000
2000
0
−2000
−4000
pull
Entries 106
Mean 2026
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

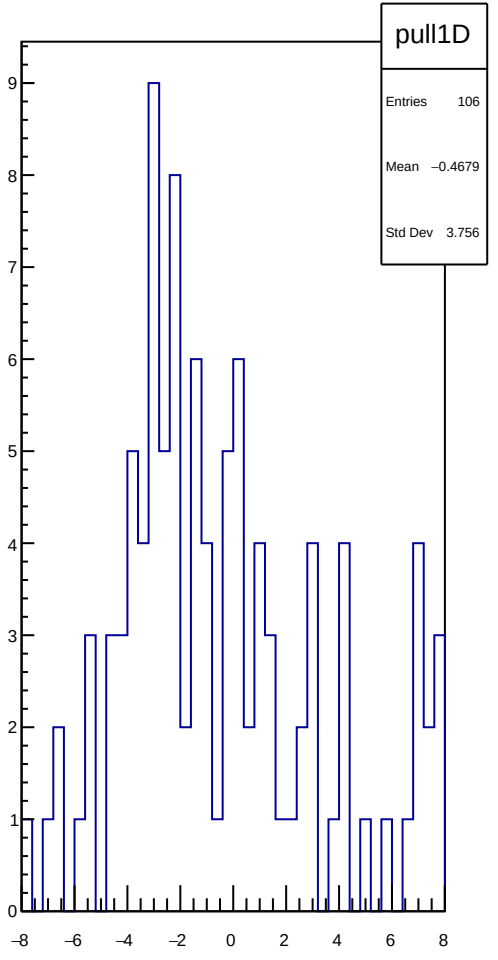

pull1D
Entries 106
Mean 0.001952
Std Dev 0.6303
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

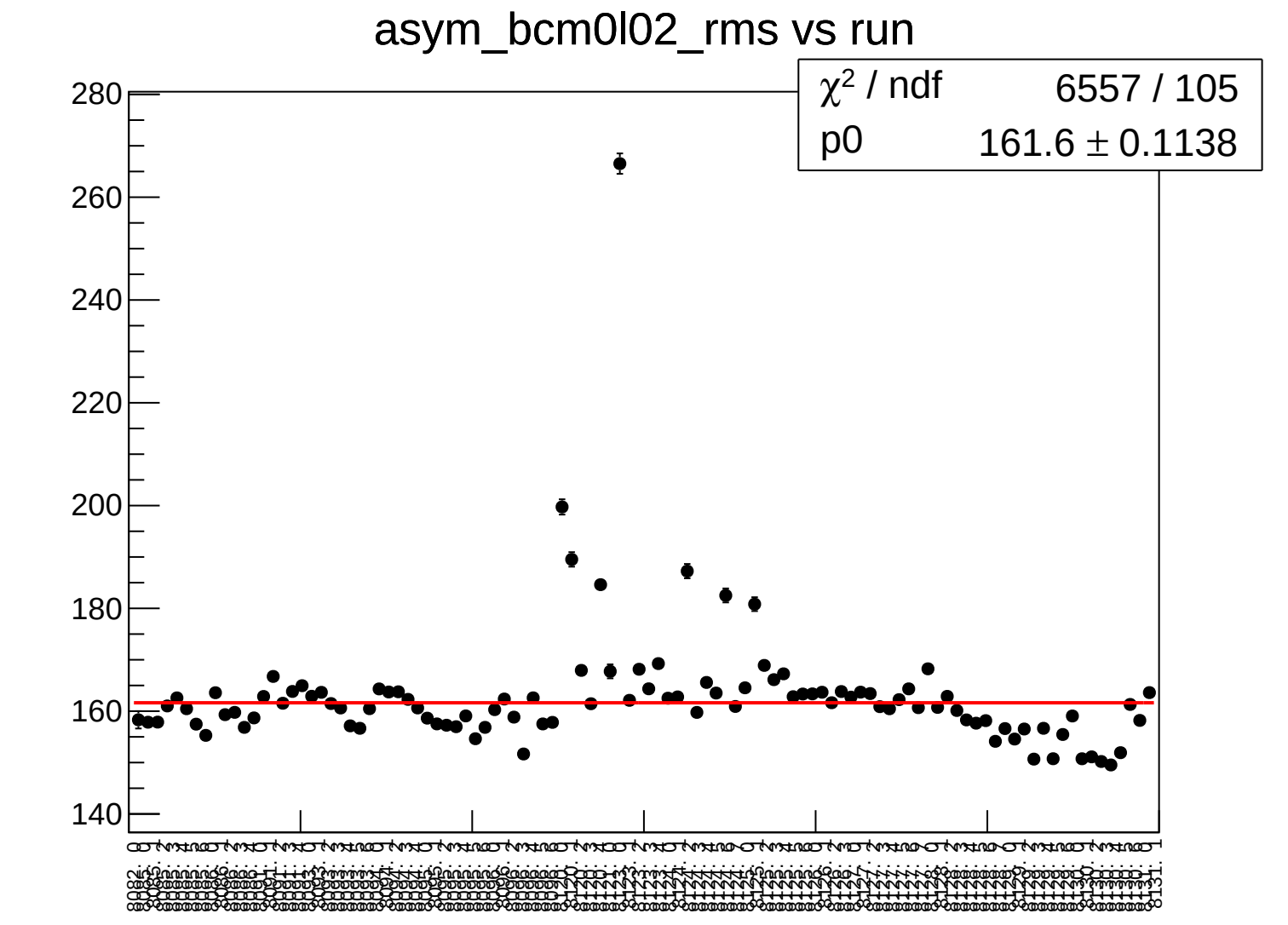

asym_cav4cQ_rms vs run
χ² / ndf 1.086e+04 / 105
p0 165.6 ± 0.1168
300
280
260
240
220
200
180
160
140

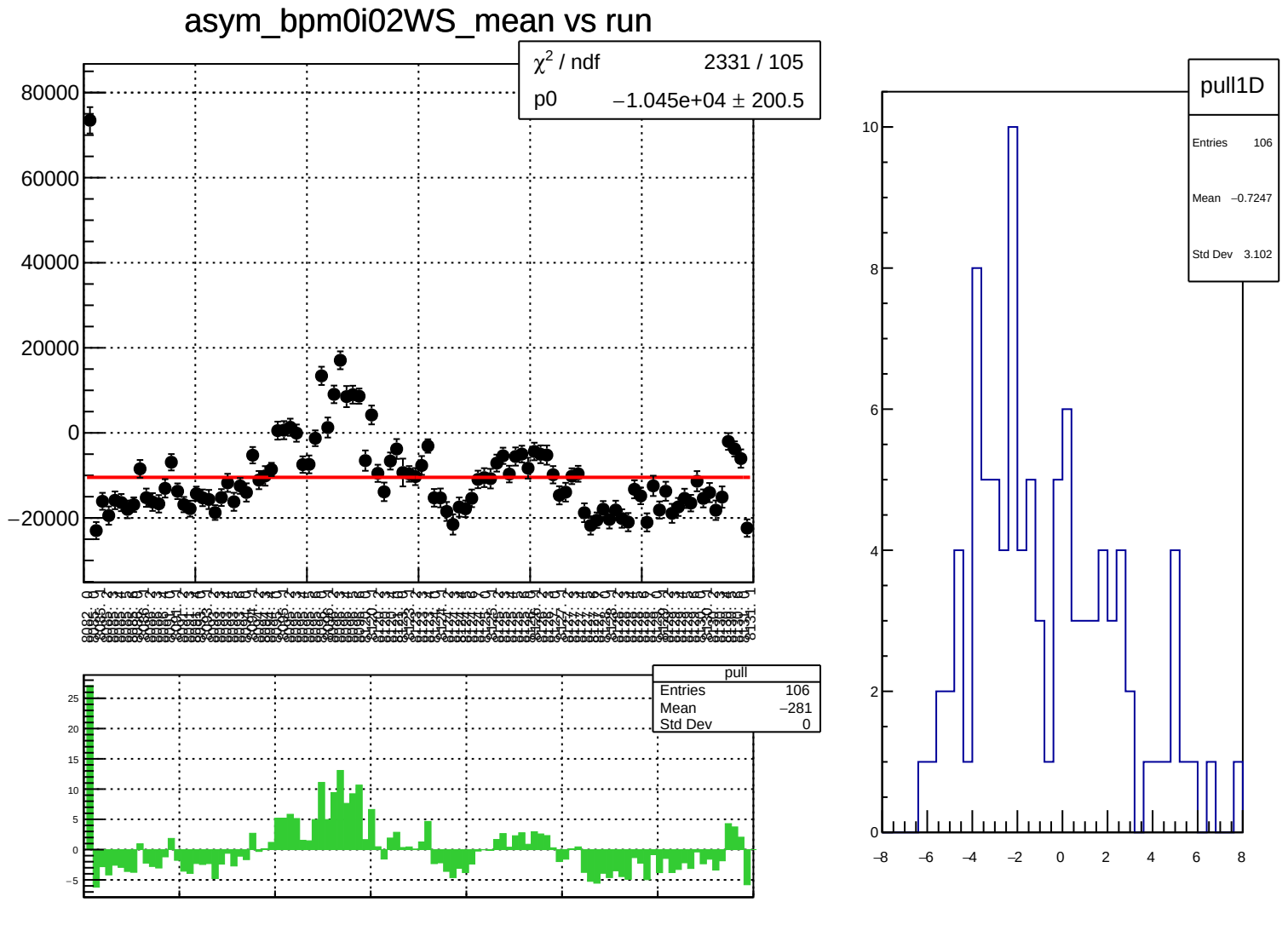

asym_cav4dQ_mean vs run
χ² / ndf 66.14 / 105
p0 377.8 ± 234.4
pull
Entries 106
Mean −5575
Std Dev 0
pull1D
Entries 106
Mean 0.0005195
Std Dev 0.7899

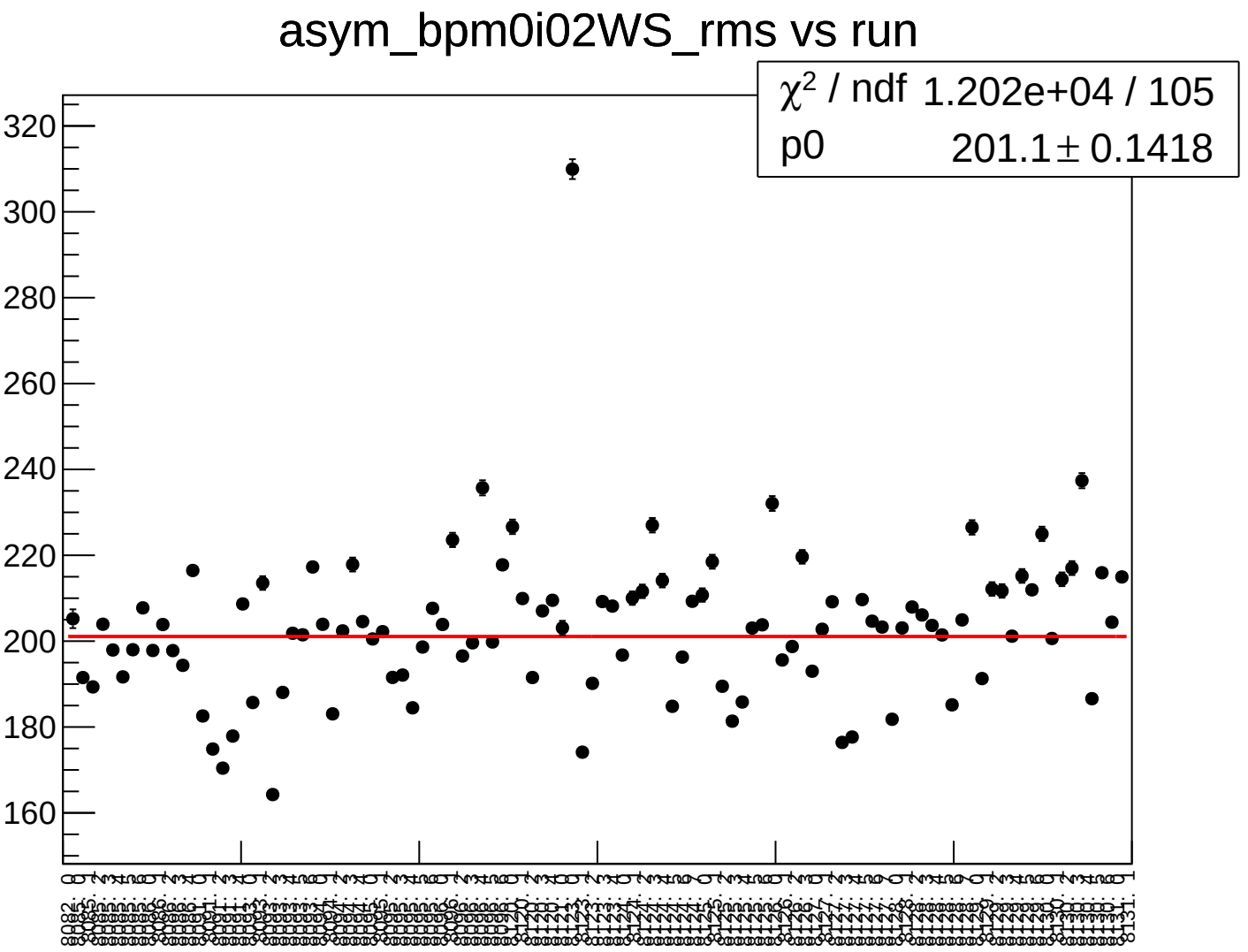

asym_cav4dQ_rms vs run
χ² / ndf 4422 / 105
p0 235.5 ± 0.1658
340
320
300
280
260
240
220

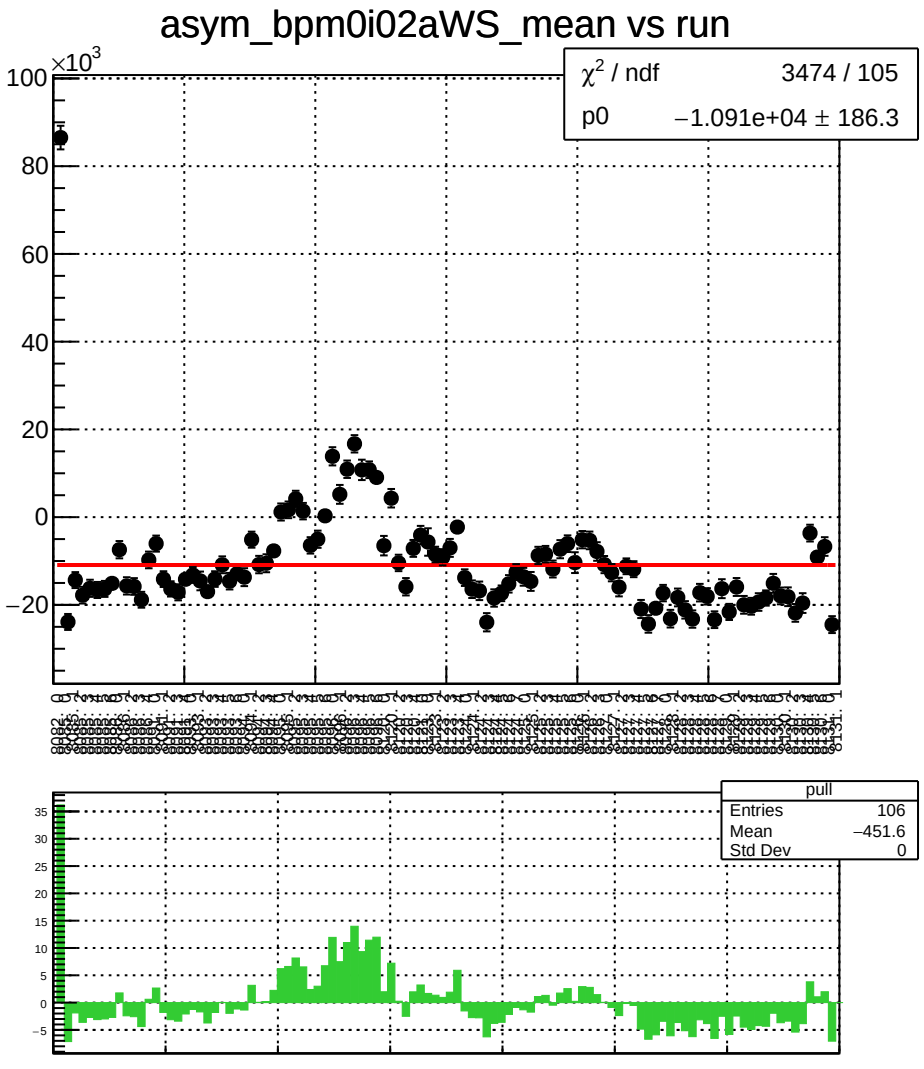

asym_bcm0l02_mean vs run
×10^3
χ^2 / ndf 3705 / 105
p0 −2512 ± 161
pull
Entries 106
Mean −275
Std Dev 0

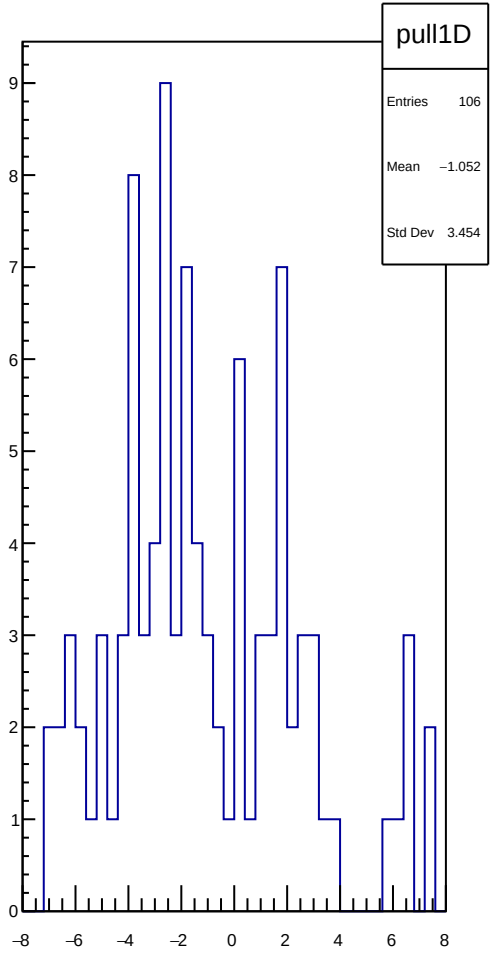

pull1D
Entries 106
Mean −0.4679
Std Dev 3.756

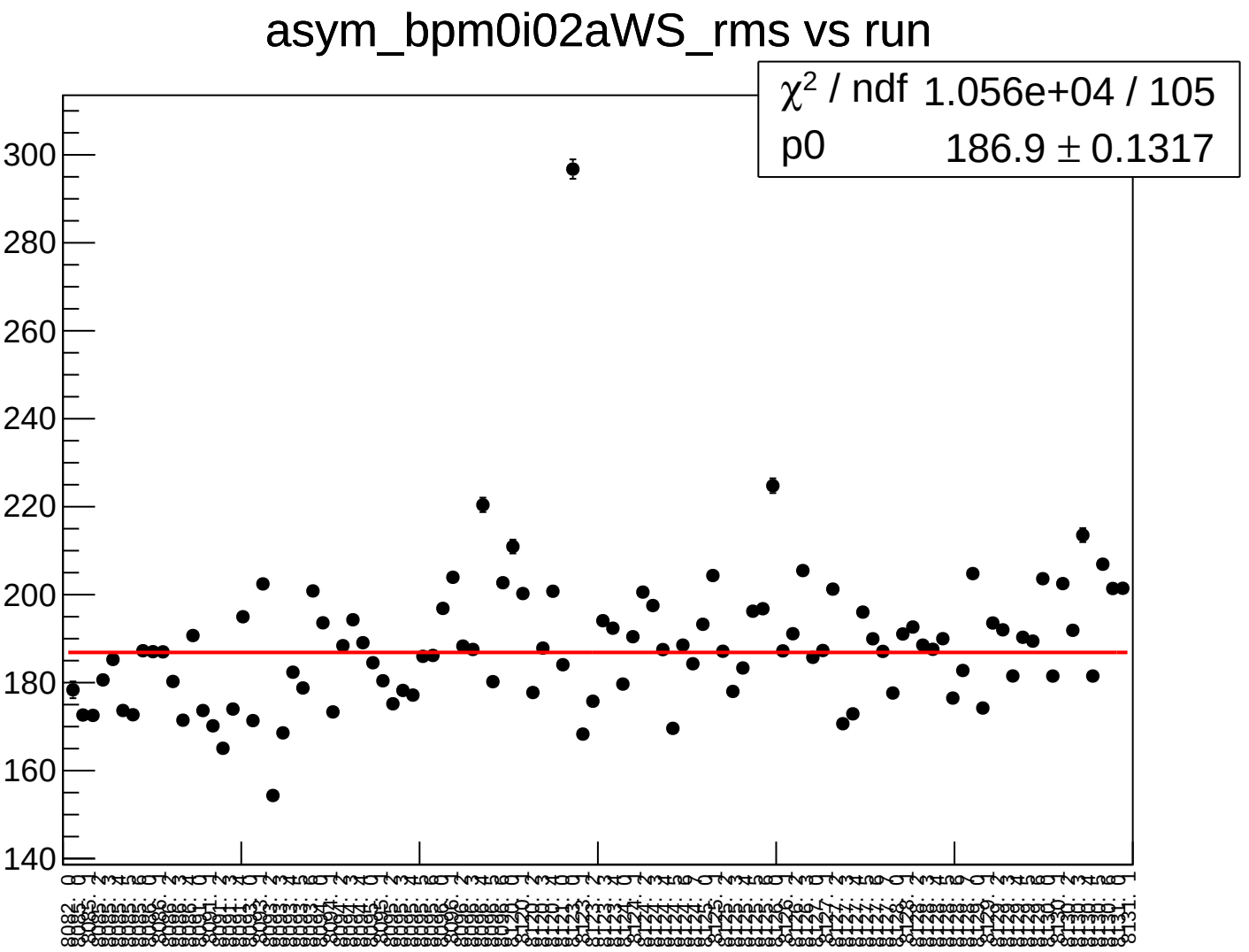

asym_bcm0l02_rms vs run
$\chi^2$ / ndf 6557 / 105
p0 161.6 ± 0.1138
280
260
240
220
200
180
160
140

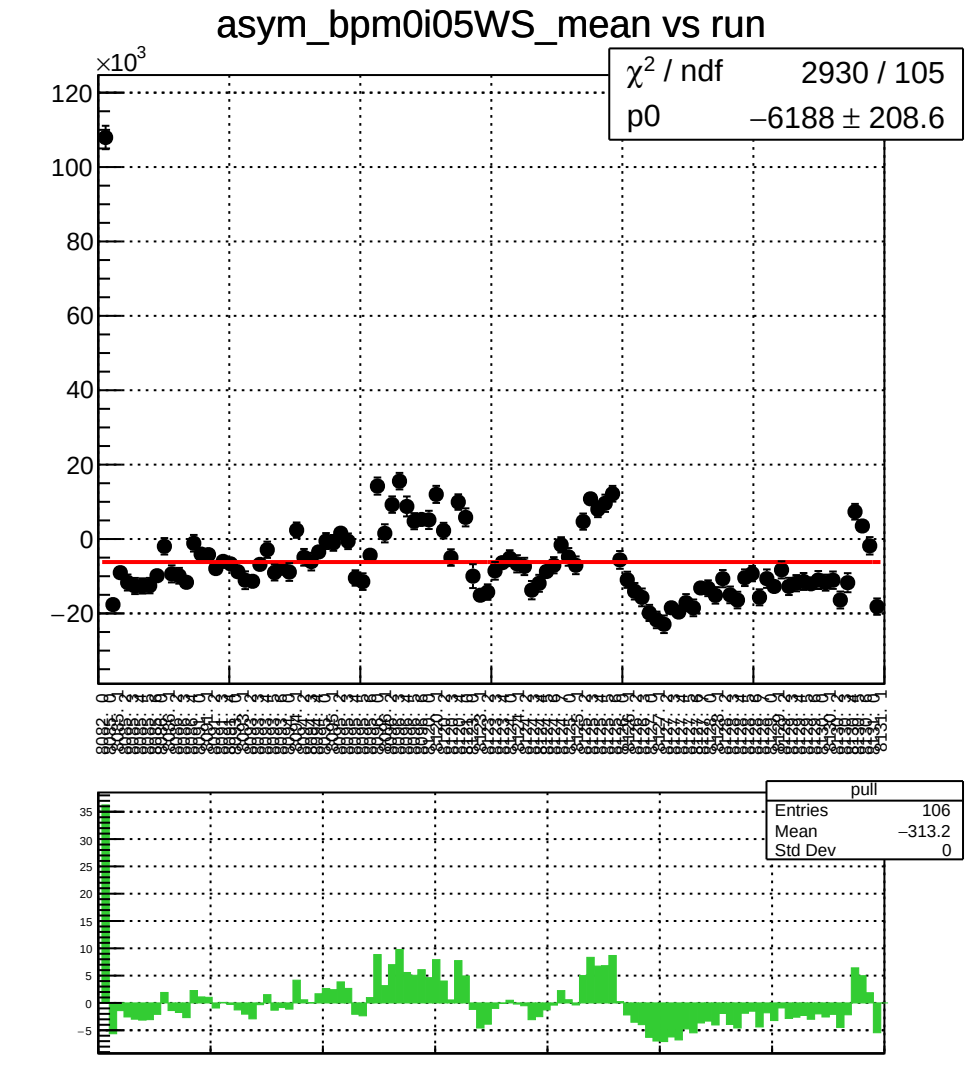

asym_bpm0i02WS_mean vs run
χ² / ndf 2331 / 105
p0 −1.045e+04 ± 200.5
80000
60000
40000
20000
0
−20000
pull
Entries 106
Mean −281
Std Dev 0
25
20
15
10
5
0
−5
pull1D
Entries 106
Mean −0.7247
Std Dev 3.102
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

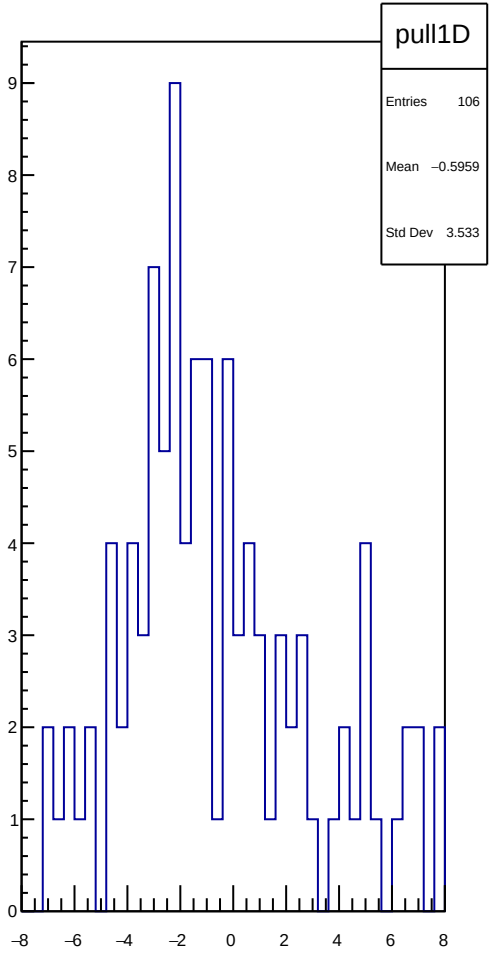

asym_bpm0i02WS_rms vs run
χ² / ndf 1.202e+04 / 105
p0 201.1 ± 0.1418
320
300
280
260
240
220
200
180
160

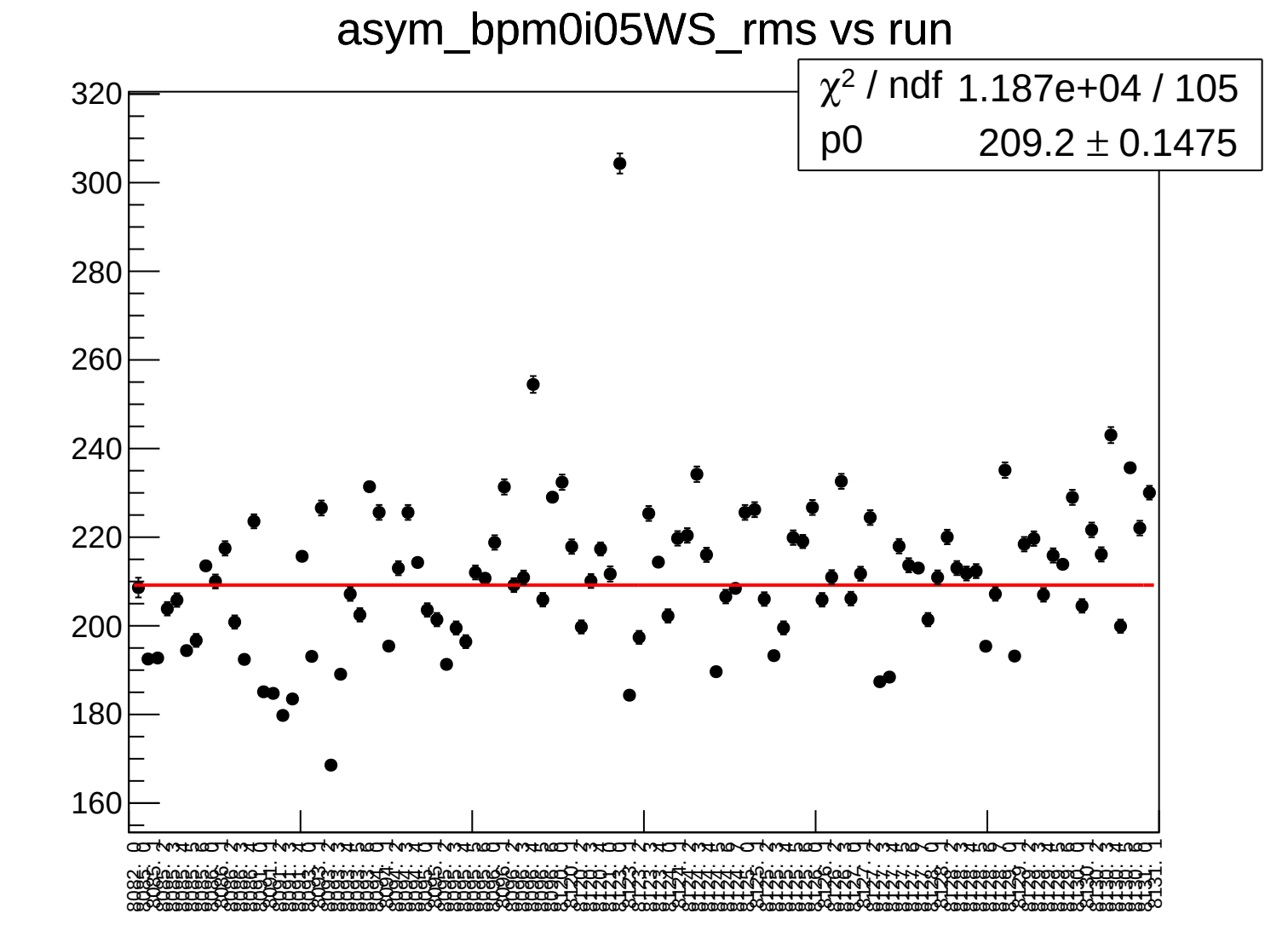

asym_bpm0i02aWS_mean vs run
×10^3
χ² / ndf 3474 / 105
p0 −1.091e+04 ± 186.3
pull
Entries 106
Mean −451.6
Std Dev 0

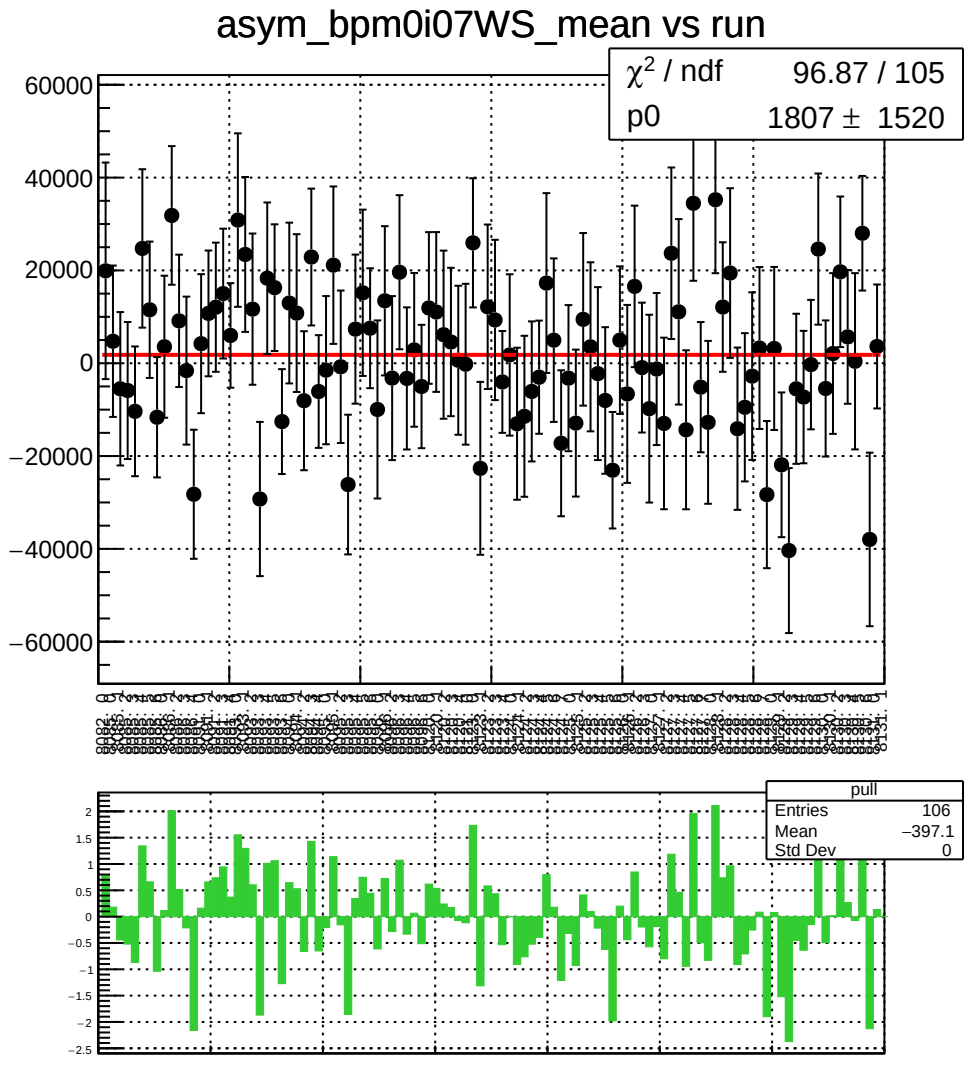

pull1D
Entries 106
Mean −1.052
Std Dev 3.454

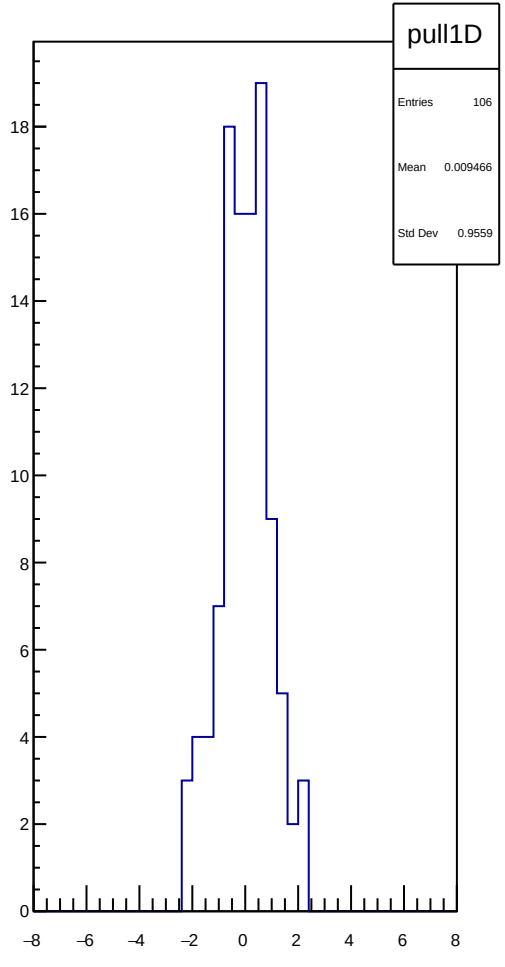

asym_bpm0i02aWS_rms vs run
$\chi^2$ / ndf 1.056e+04 / 105
p0 186.9 ± 0.1317
300
280
260
240
220
200
180
160
140

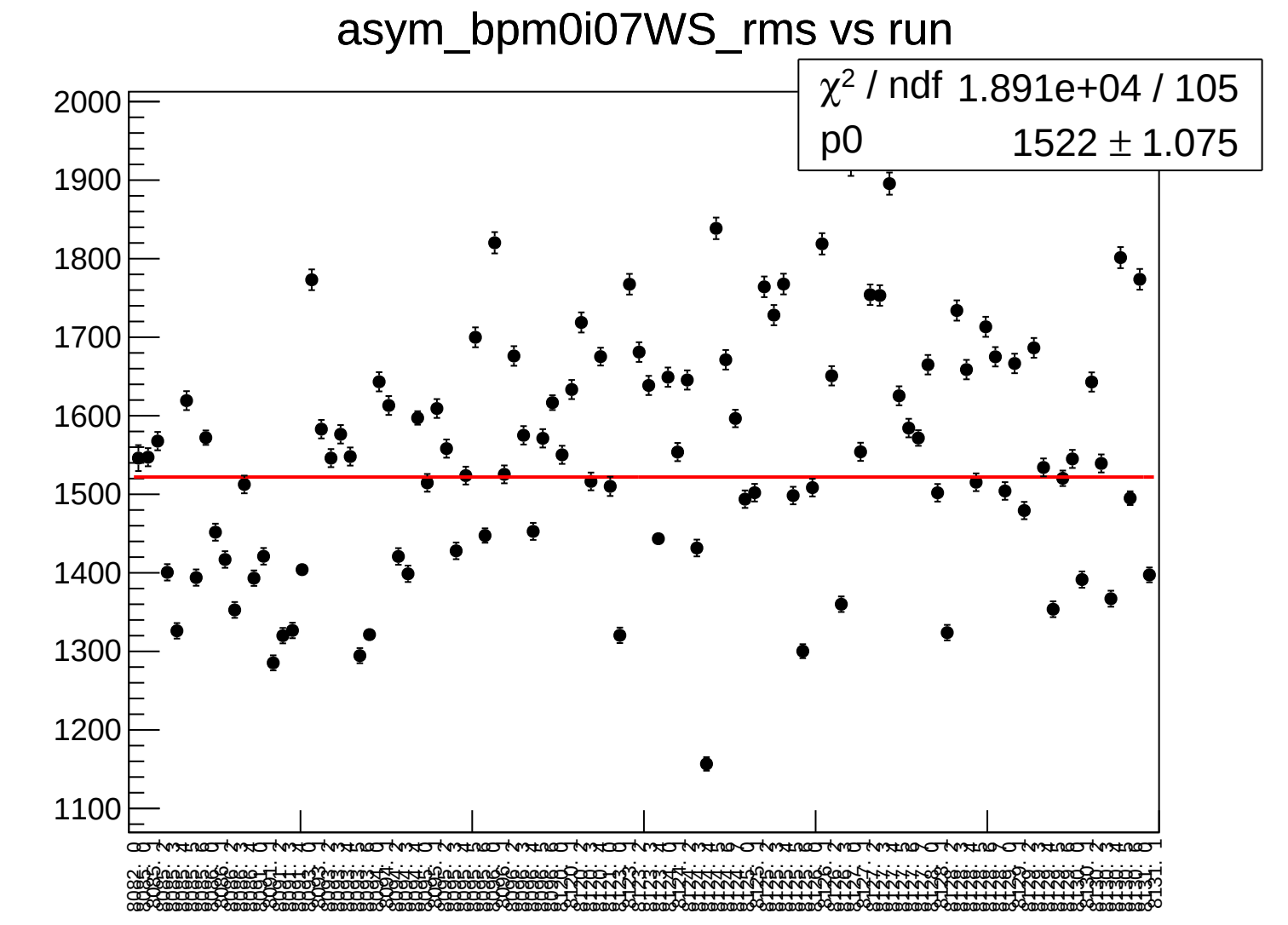

asym_bpm0i05WS_mean vs run
×10^3
χ^2 / ndf 2930 / 105
p0 −6188 ± 208.6
120
100
80
60
40
20
0
−20
pull
Entries 106
Mean −313.2
Std Dev 0
35
30
25
20
15
10
5
0
−5

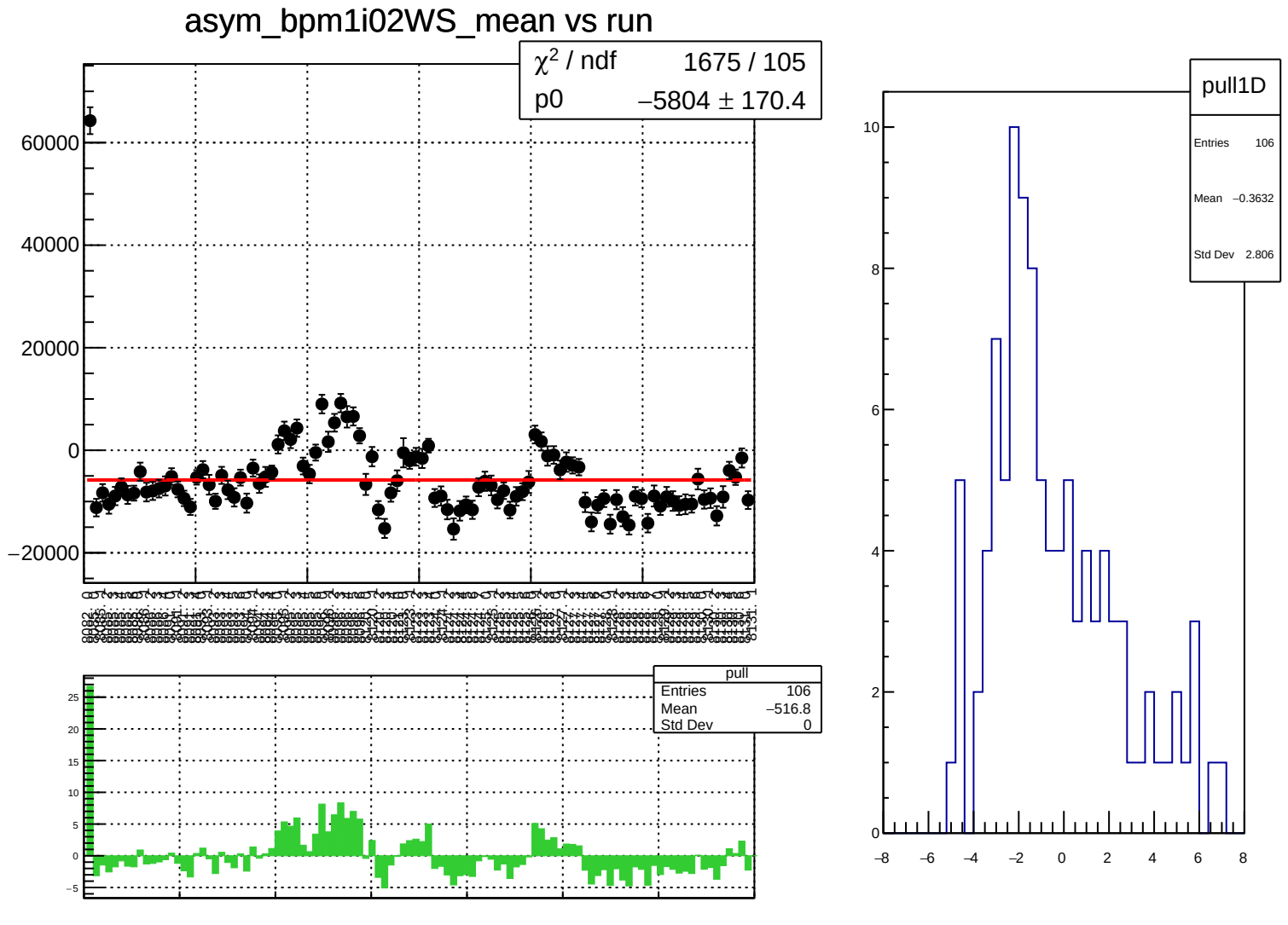

pull1D
Entries 106
Mean −0.5959
Std Dev 3.533
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

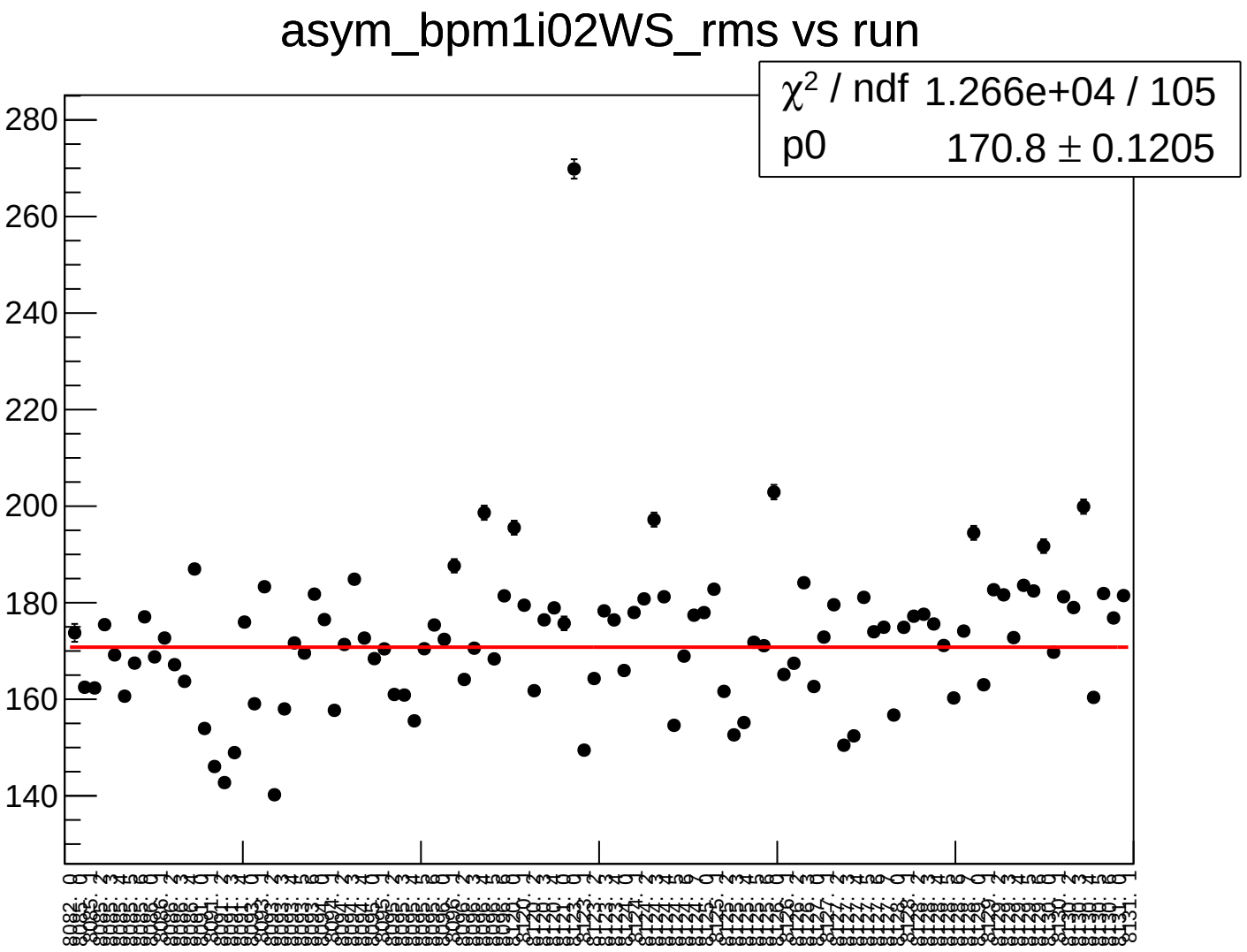

asym_bpm0i05WS_rms vs run
$\chi^2$ / ndf 1.187e+04 / 105
p0 209.2 ± 0.1475
320
300
280
260
240
220
200
180
160

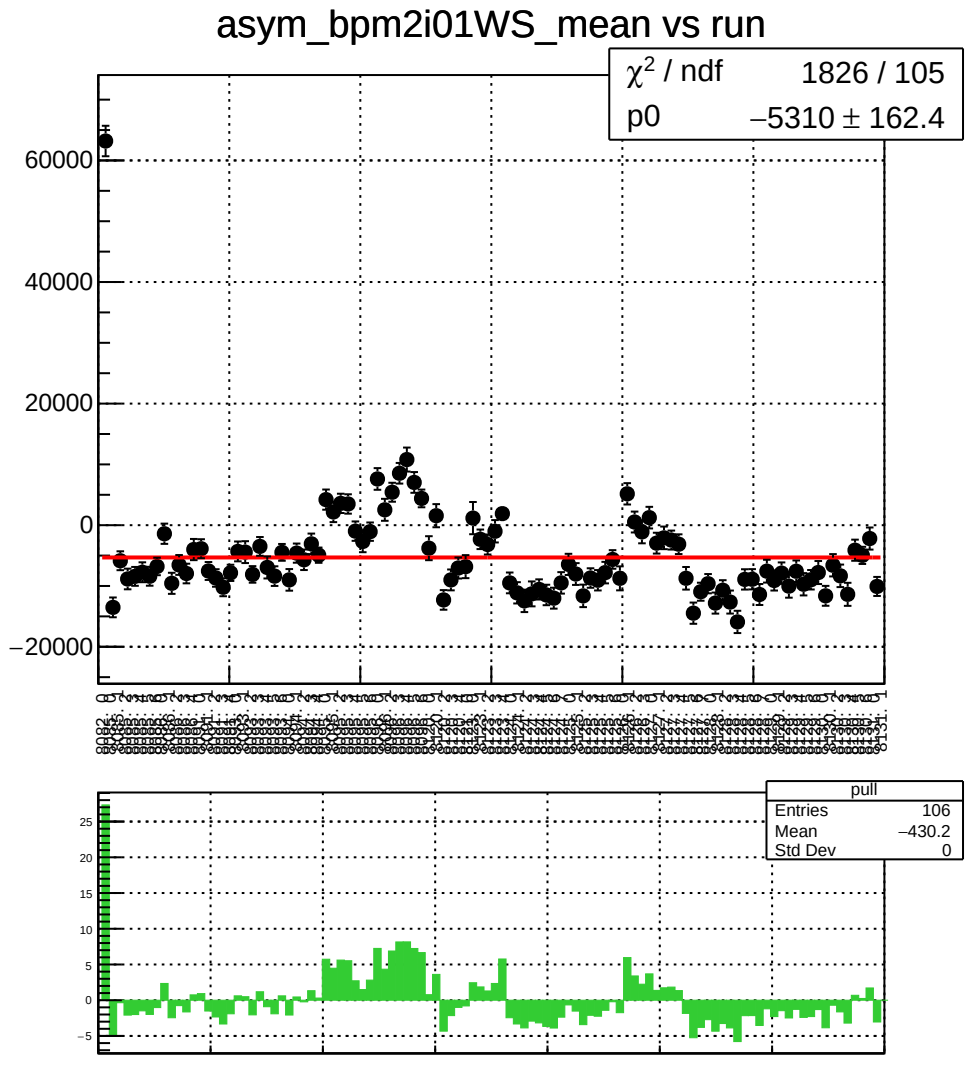

asym_bpm0i07WS_mean vs run
χ² / ndf 96.87 / 105
p0 1807 ± 1520
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean −397.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

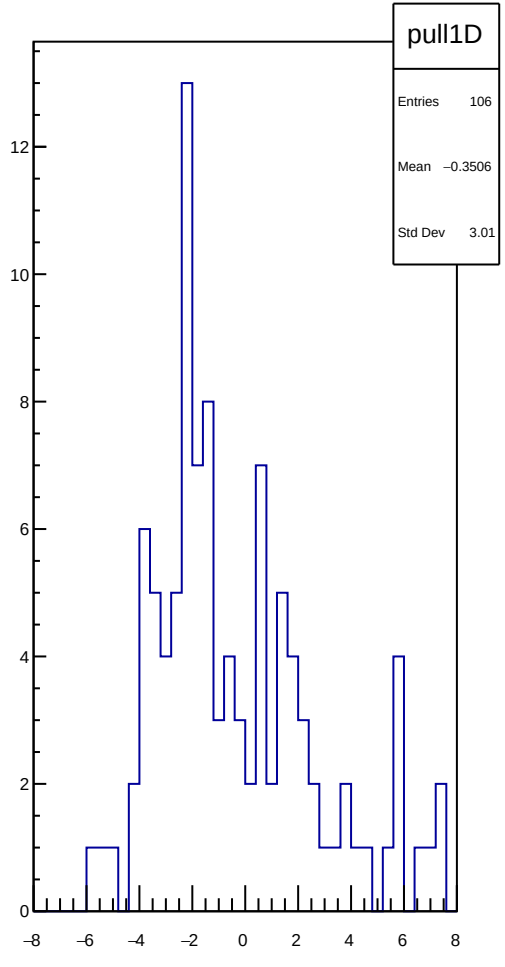

pull1D
Entries 106
Mean 0.009466
Std Dev 0.9559
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

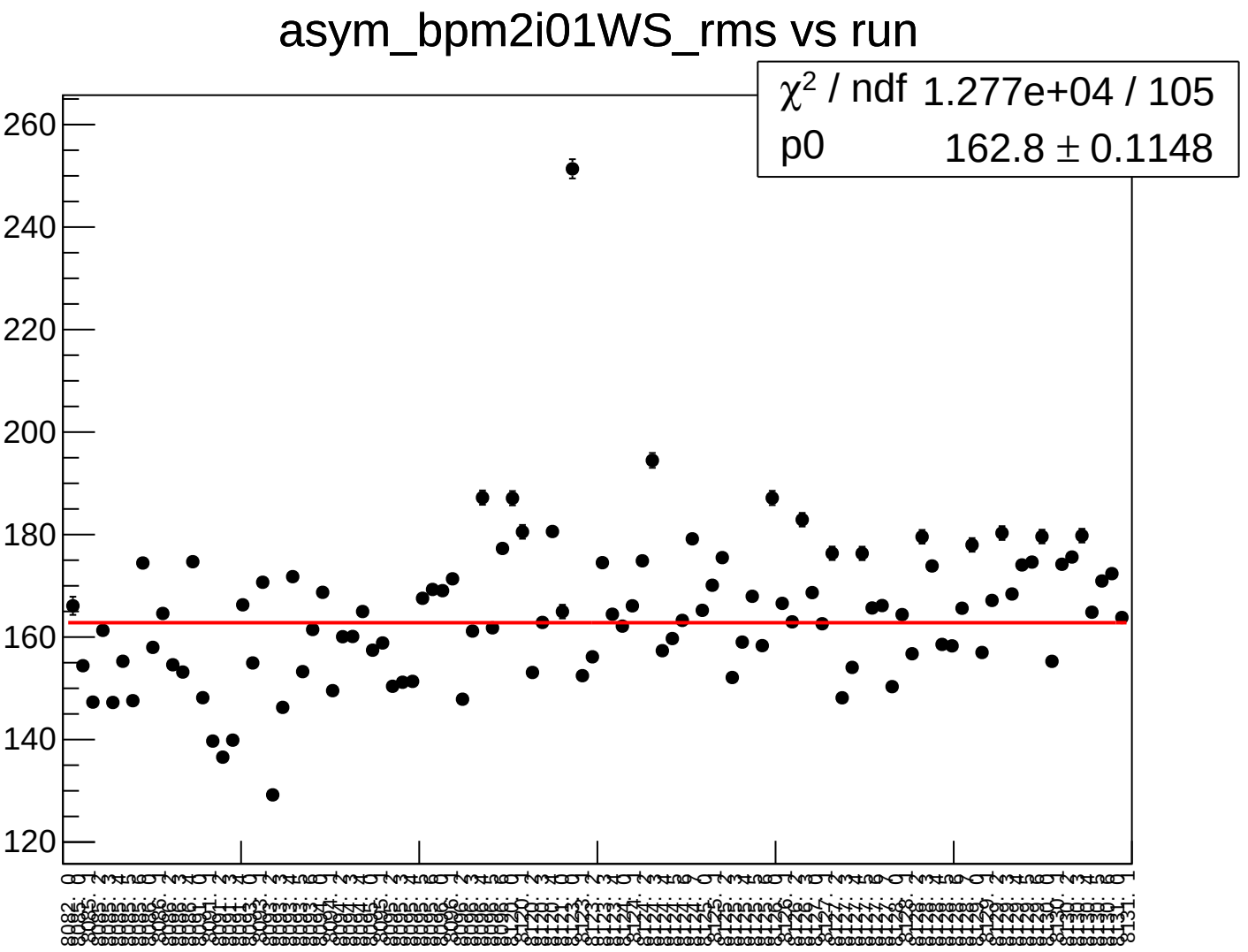

asym_bpm0i07WS_rms vs run
$\chi^2$ / ndf 1.891e+04 / 105
p0 1522 ± 1.075
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100

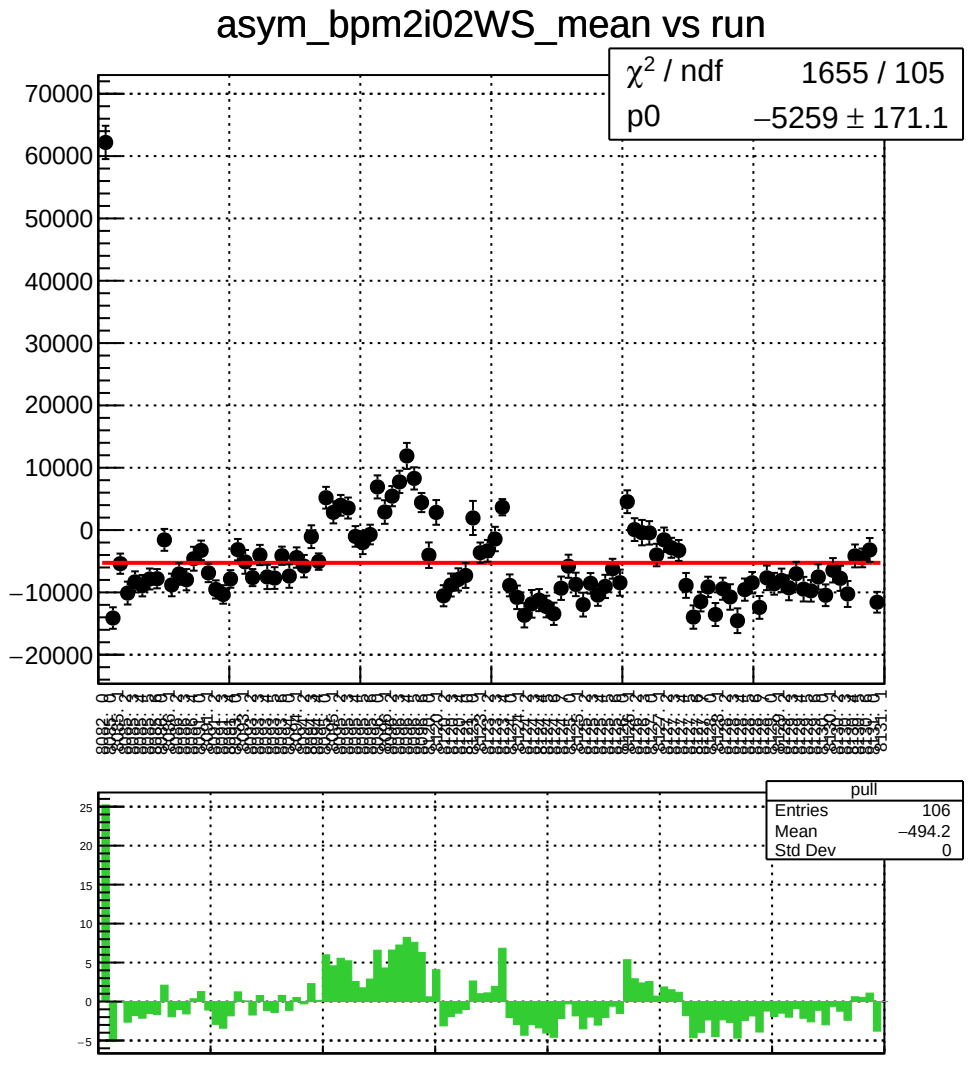

asym_bpm1i02WS_mean vs run
χ² / ndf 1675 / 105
p0 −5804 ± 170.4
60000
40000
20000
0
−20000
pull
Entries 106
Mean −516.8
Std Dev 0
25
20
15
10
5
0
−5
pull1D
Entries 106
Mean −0.3632
Std Dev 2.806
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

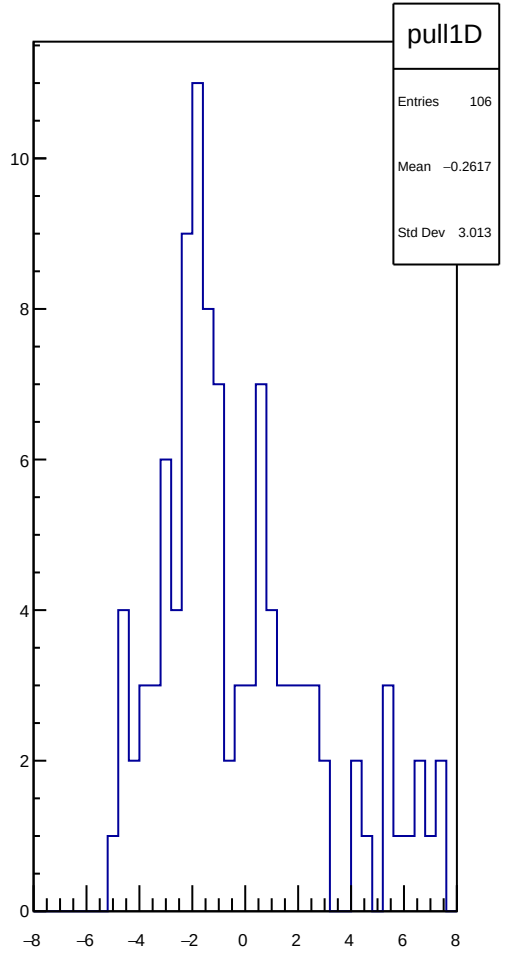

asym_bpm1i02WS_rms vs run
$\chi^2$ / ndf 1.266e+04 / 105
p0 170.8 ± 0.1205
280
260
240
220
200
180
160
140

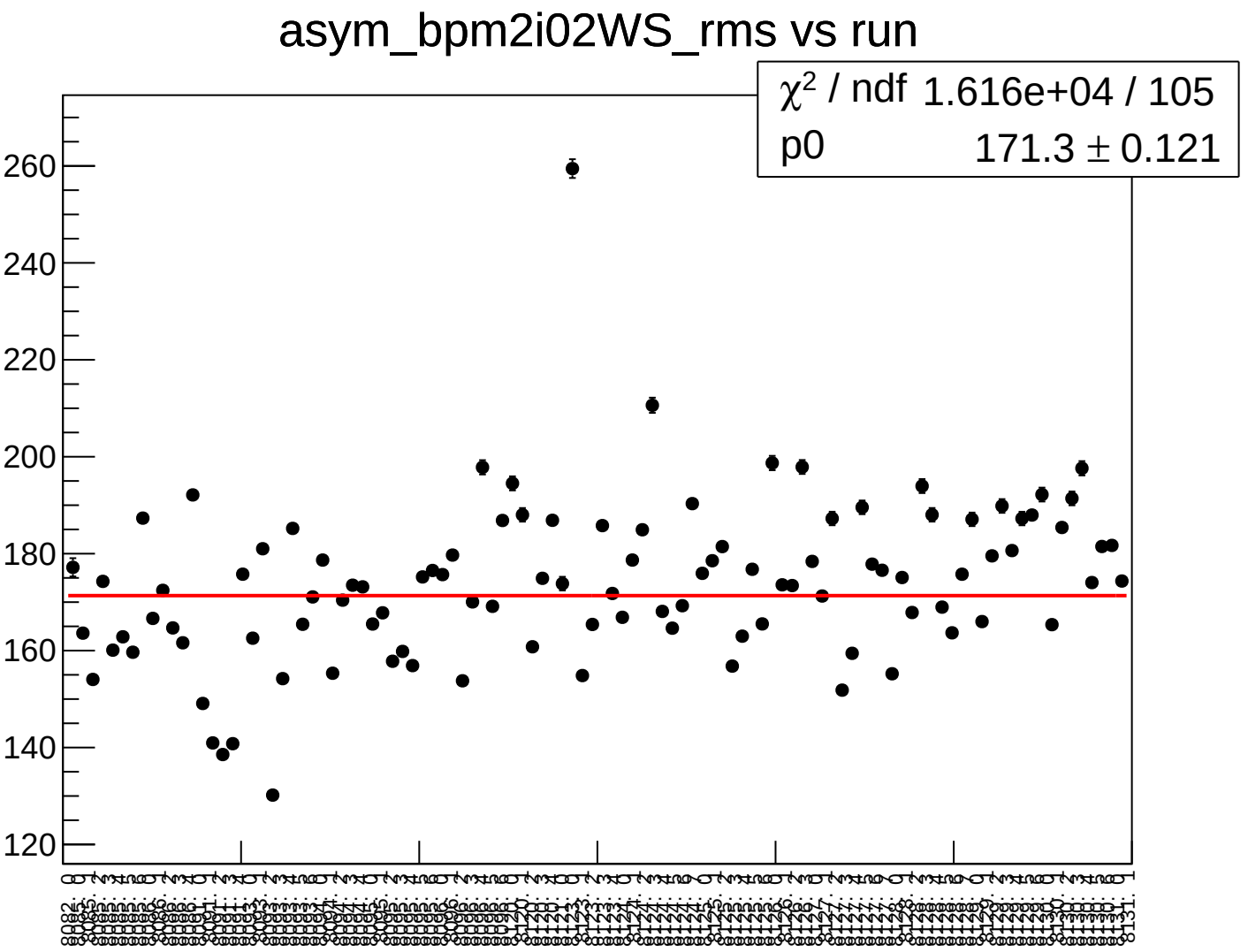

asym_bpm2i01WS_mean vs run
χ² / ndf 1826 / 105
p0 −5310 ± 162.4
60000
40000
20000
0
−20000
pull
Entries 106
Mean −430.2
Std Dev 0
25
20
15
10
5
0
−5

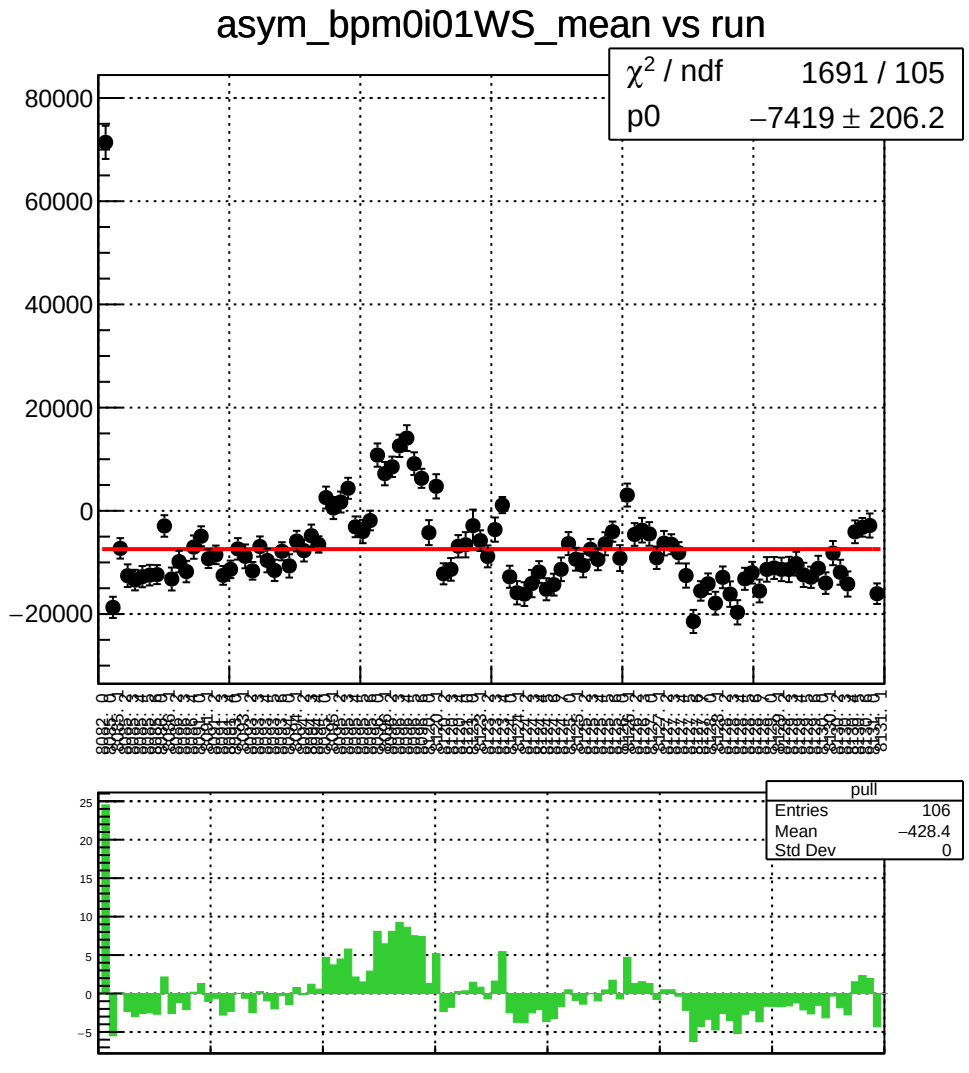

pull1D
Entries 106
Mean −0.3506
Std Dev 3.01
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

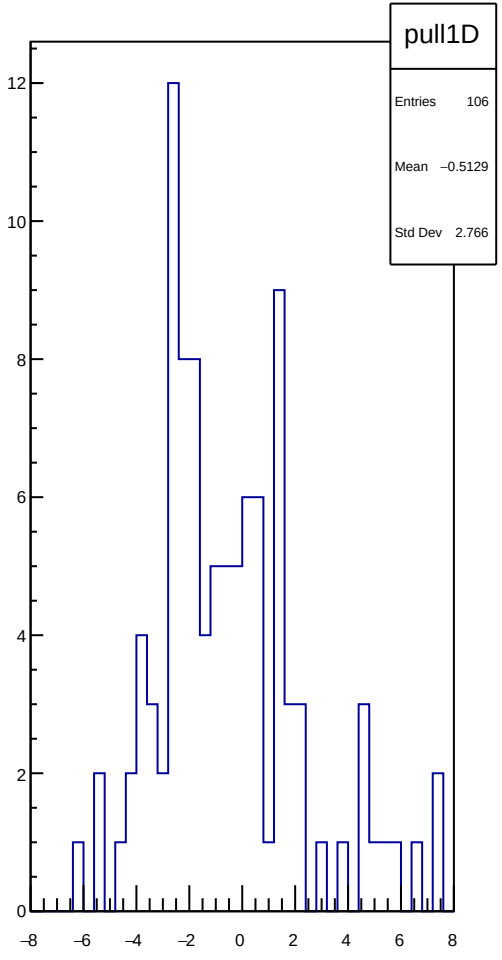

asym_bpm2i01WS_rms vs run
χ² / ndf 1.277e+04 / 105
p0 162.8 ± 0.1148
260
240
220
200
180
160
140
120

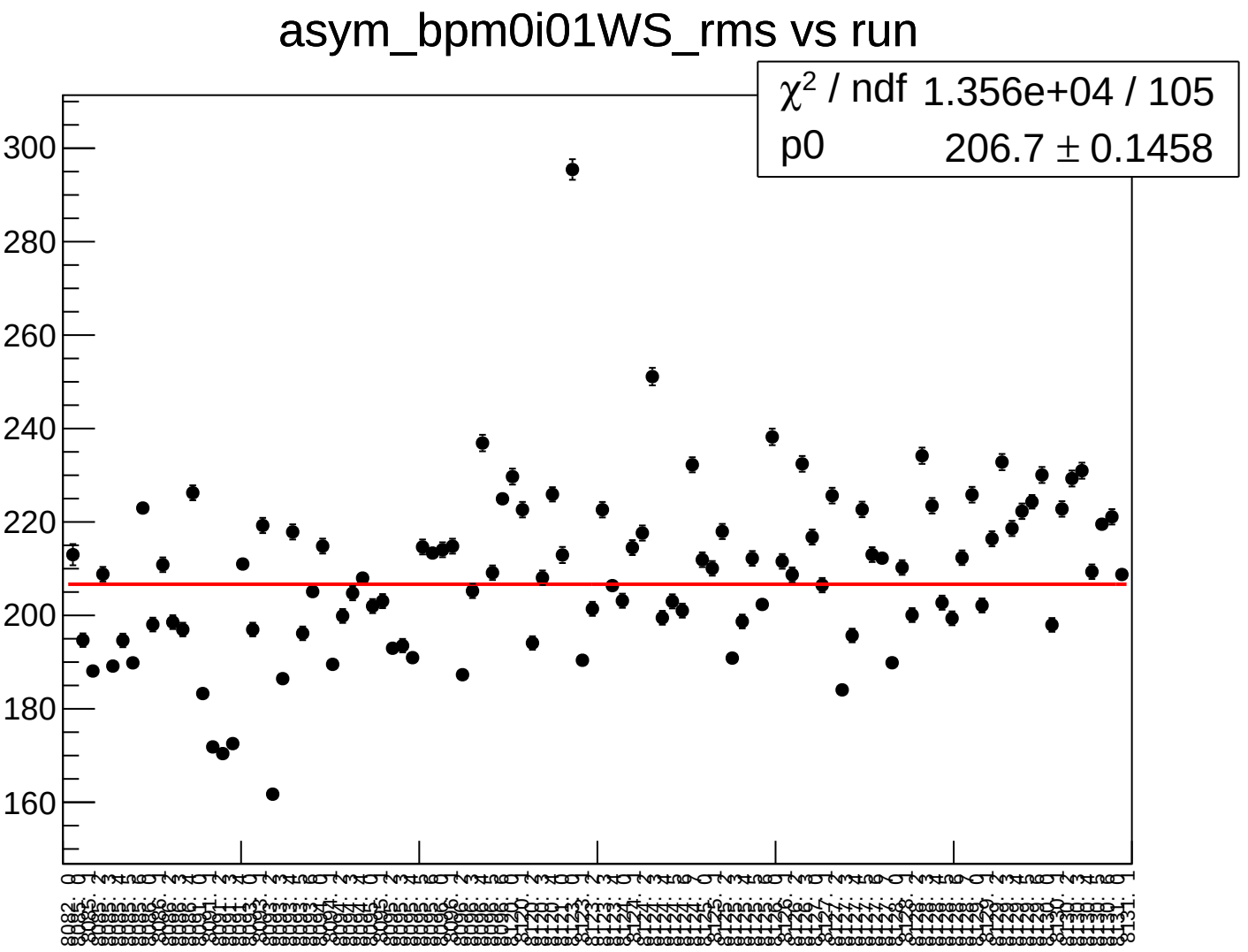

asym_bpm2i02WS_mean vs run
χ² / ndf 1655 / 105
p0 −5259 ± 171.1
70000
60000
50000
40000
30000
20000
10000
0
−10000
−20000
pull
Entries 106
Mean −494.2
Std Dev 0
25
20
15
10
5
0
−5

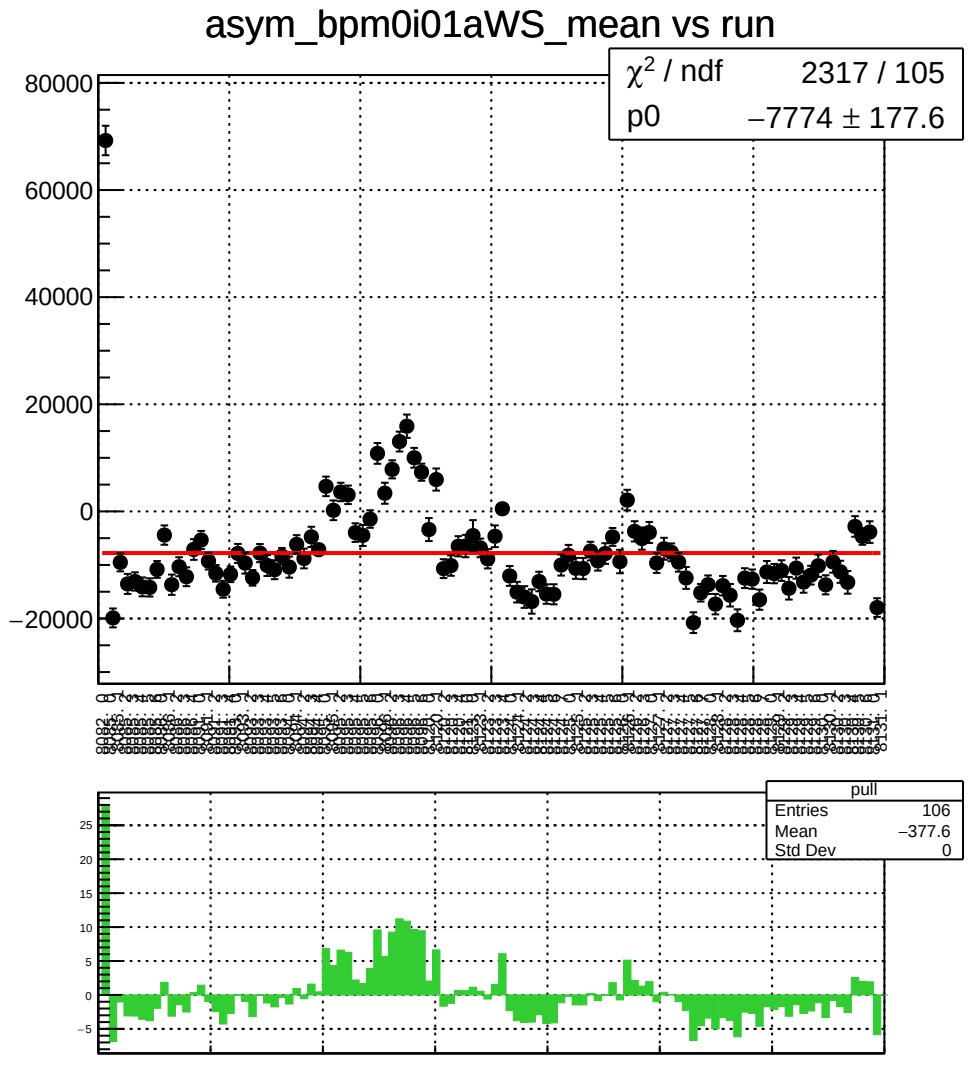

pull1D
Entries 106
Mean −0.2617
Std Dev 3.013
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

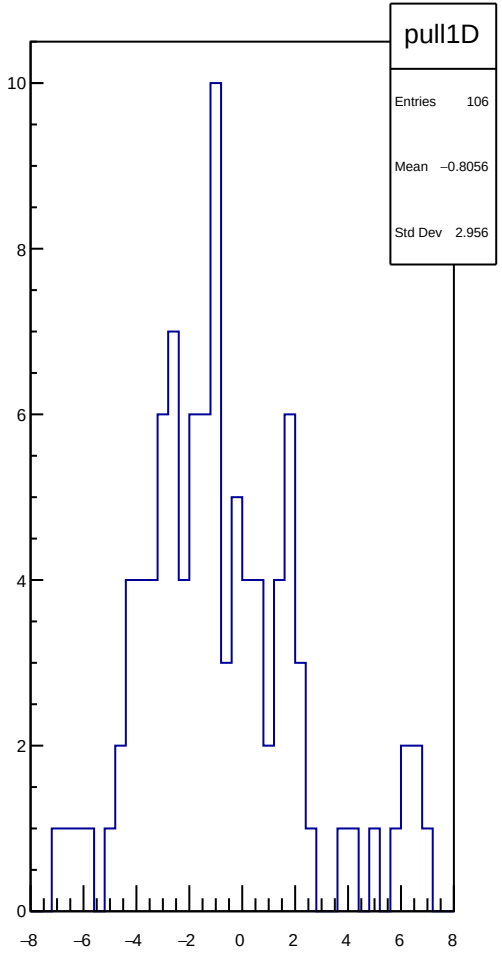

asym_bpm2i02WS_rms vs run
χ² / ndf 1.616e+04 / 105
p0 171.3 ± 0.121
260
240
220
200
180
160
140
120

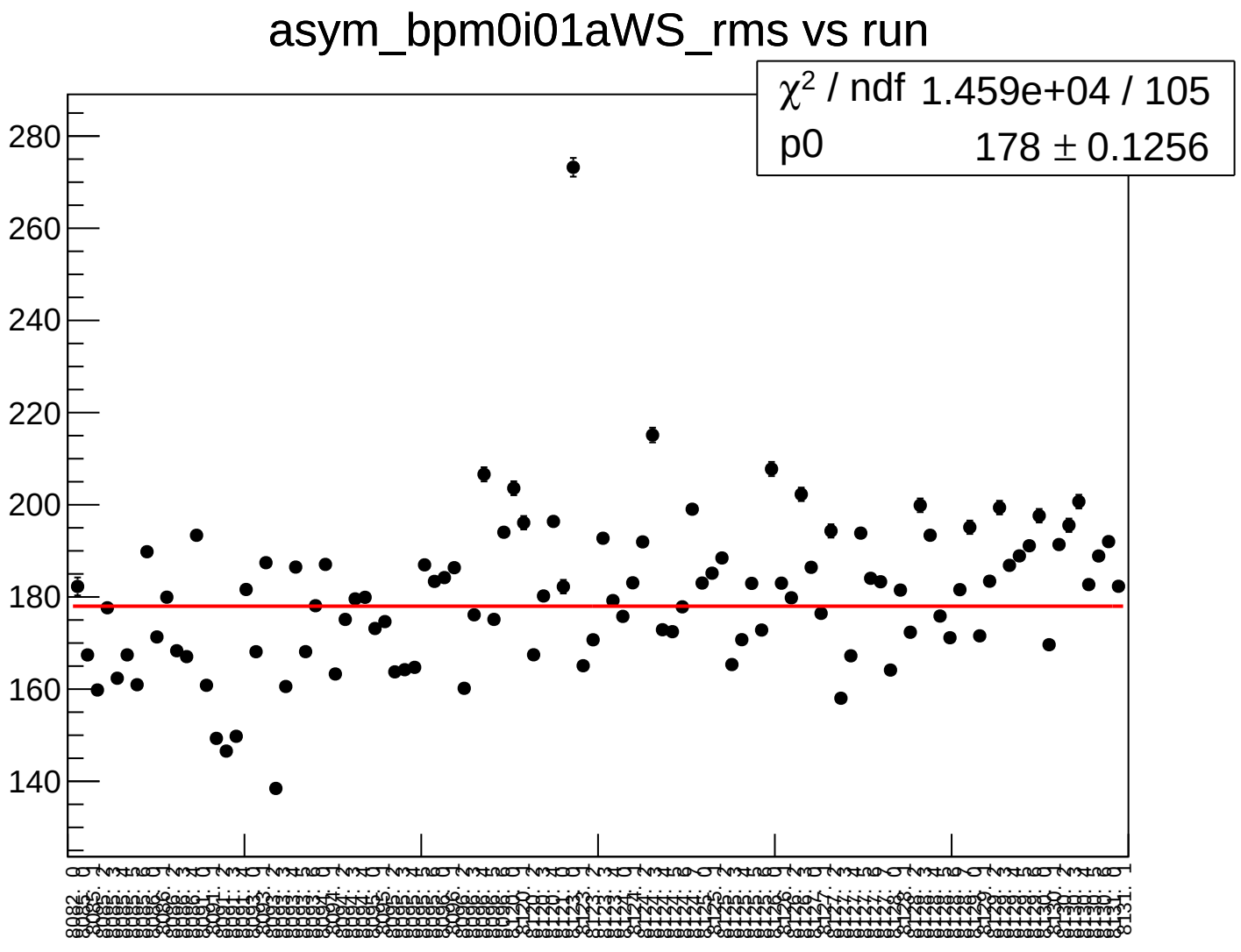

asym_bpm0i01WS_mean vs run
χ² / ndf 1691 / 105
p0 −7419 ± 206.2
80000
60000
40000
20000
0
−20000
pull
Entries 106
Mean −428.4
Std Dev 0
25
20
15
10
5
0
−5

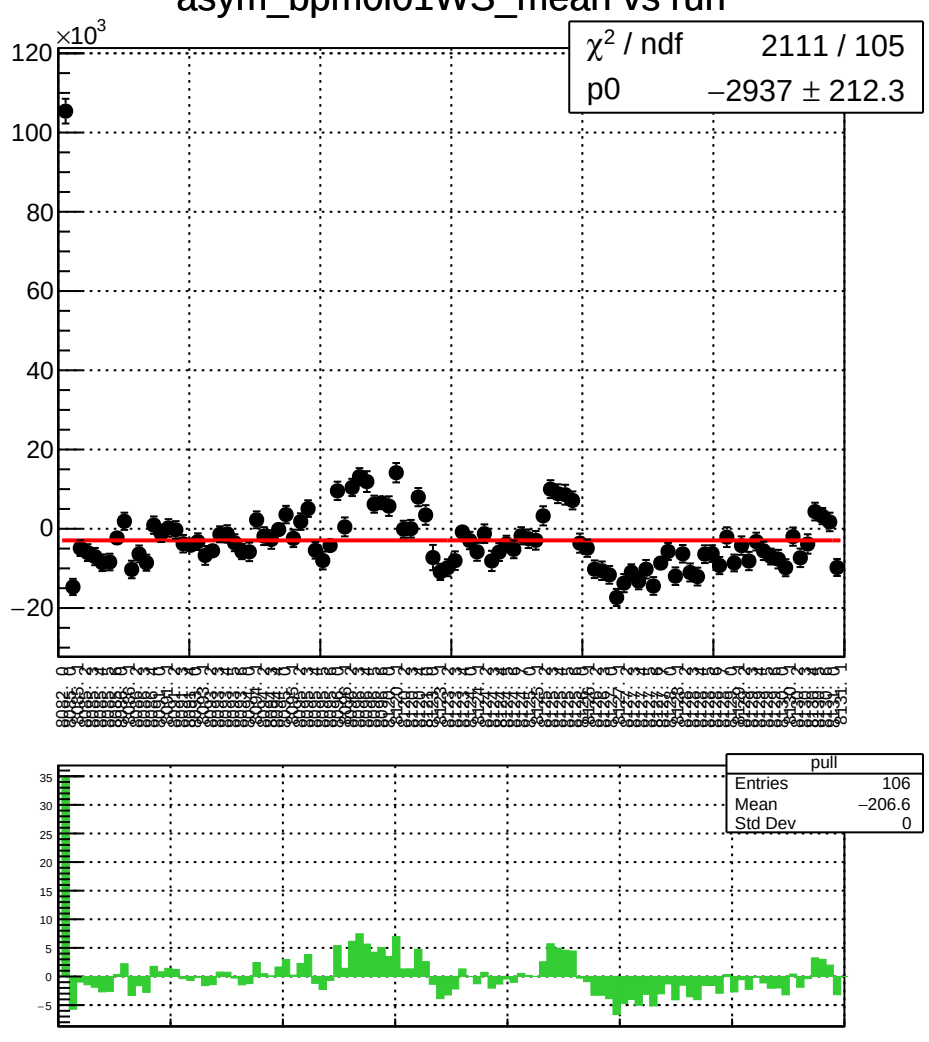

pull1D
Entries 106
Mean −0.5129
Std Dev 2.766
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

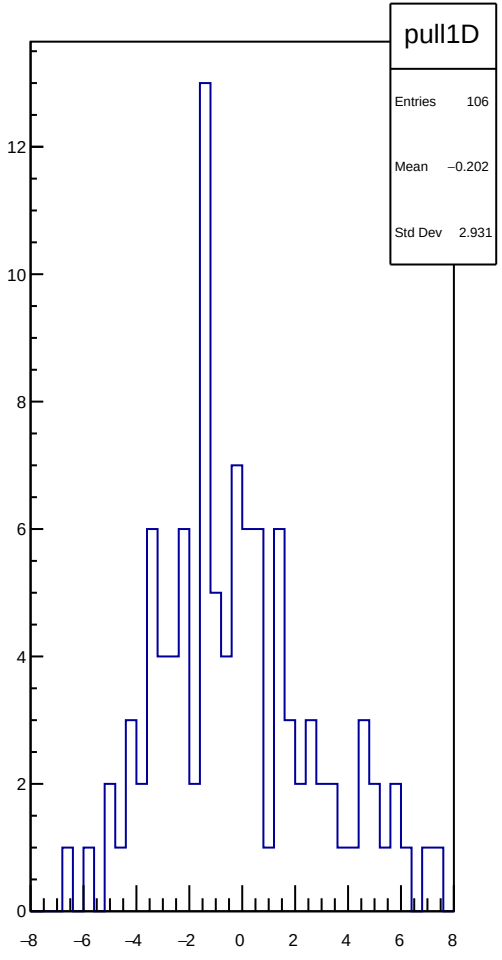

asym_bpm0i01WS_rms vs run
χ² / ndf 1.356e+04 / 105
p0 206.7 ± 0.1458
300
280
260
240
220
200
180
160

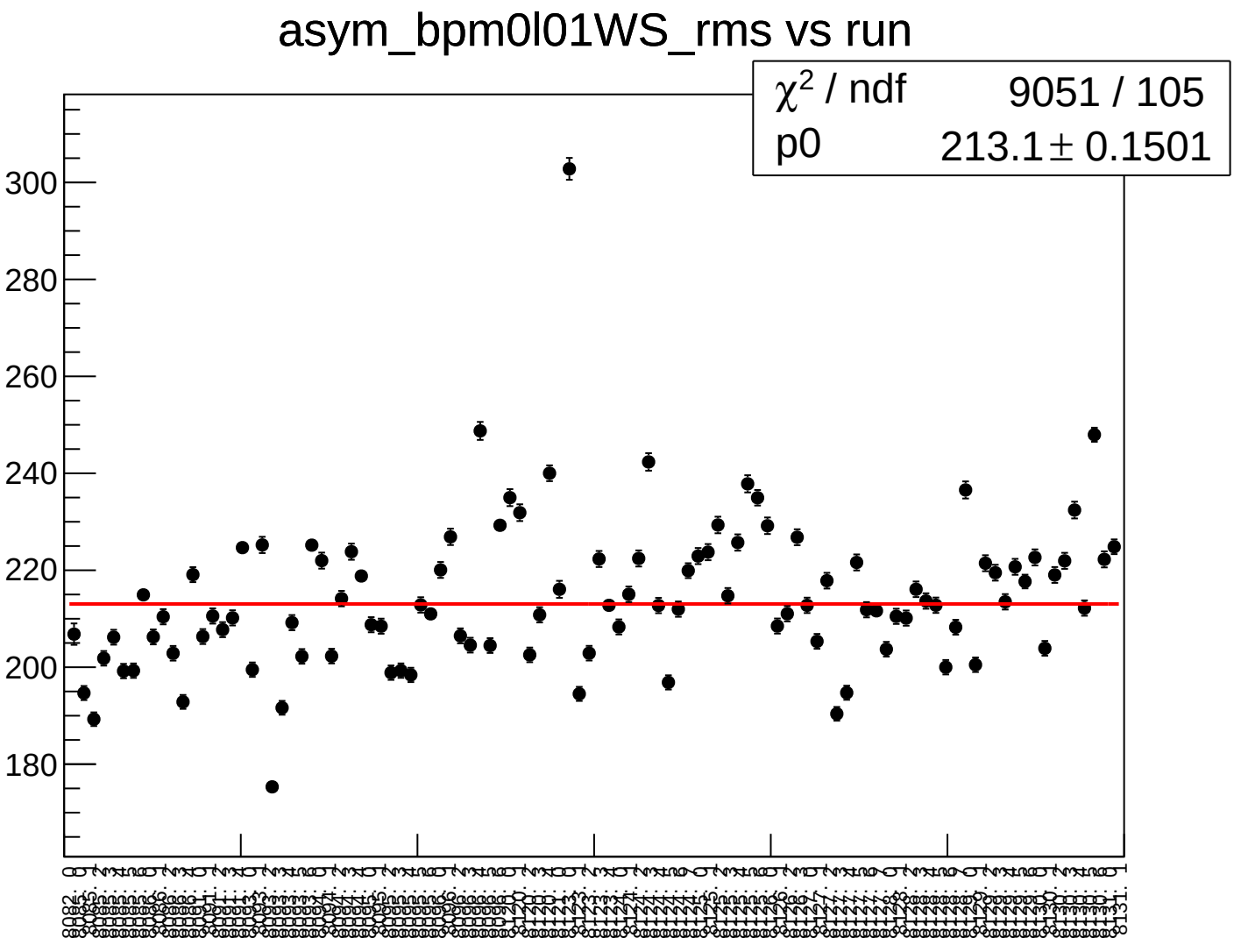

asym_bpm0i01aWS_mean vs run
χ² / ndf 2317 / 105
p0 −7774 ± 177.6
80000
60000
40000
20000
0
−20000
pull
Entries 106
Mean −377.6
Std Dev 0
25
20
15
10
5
0
−5

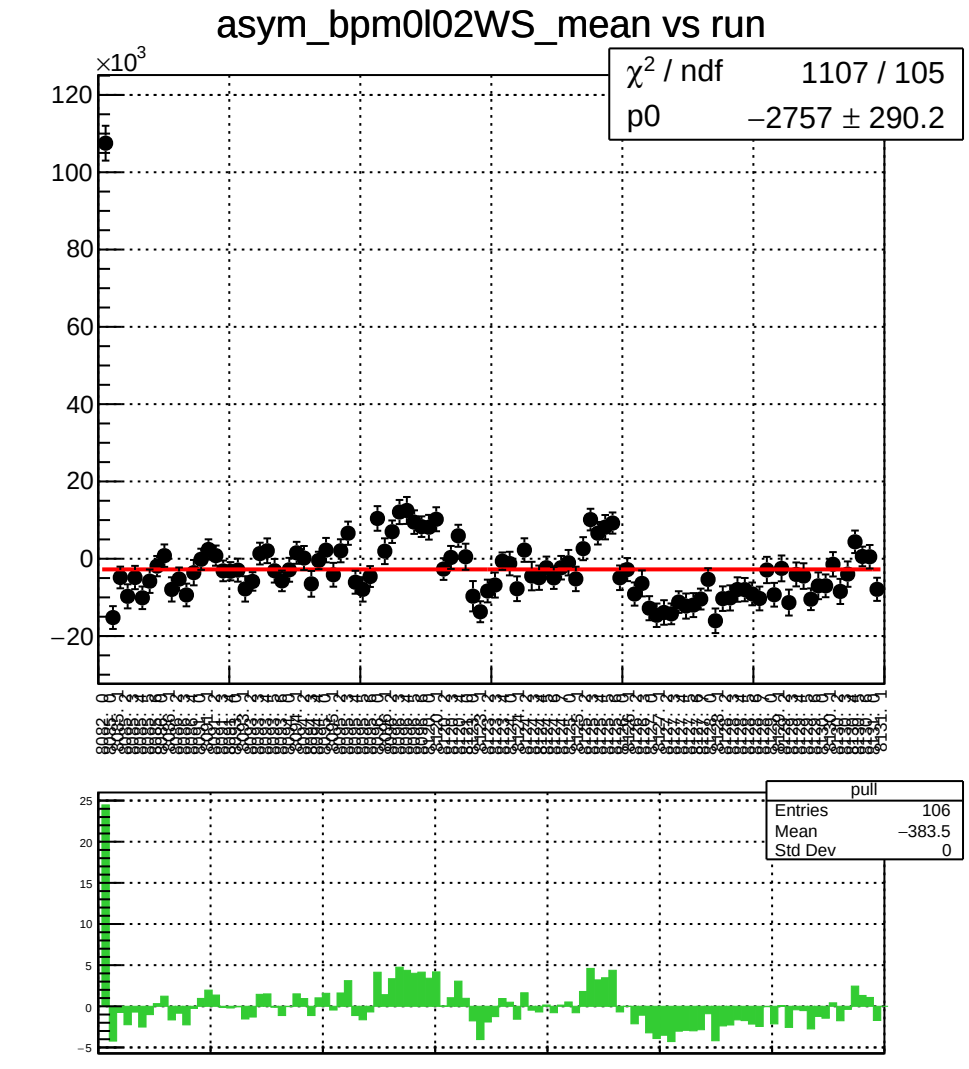

pull1D
Entries 106
Mean −0.8056
Std Dev 2.956
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

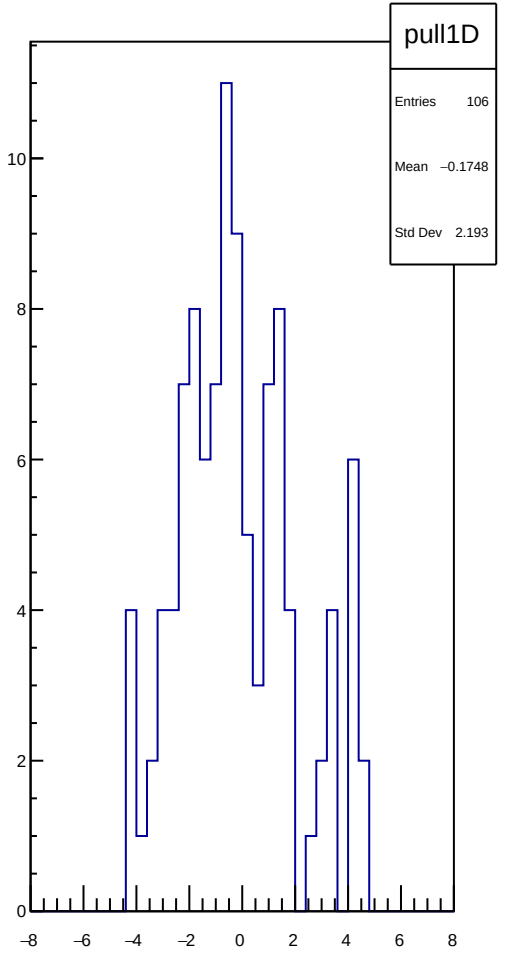

asym_bpm0i01aWS_rms vs run
$\chi^2$ / ndf 1.459e+04 / 105
p0 178 ± 0.1256
280
260
240
220
200
180
160
140

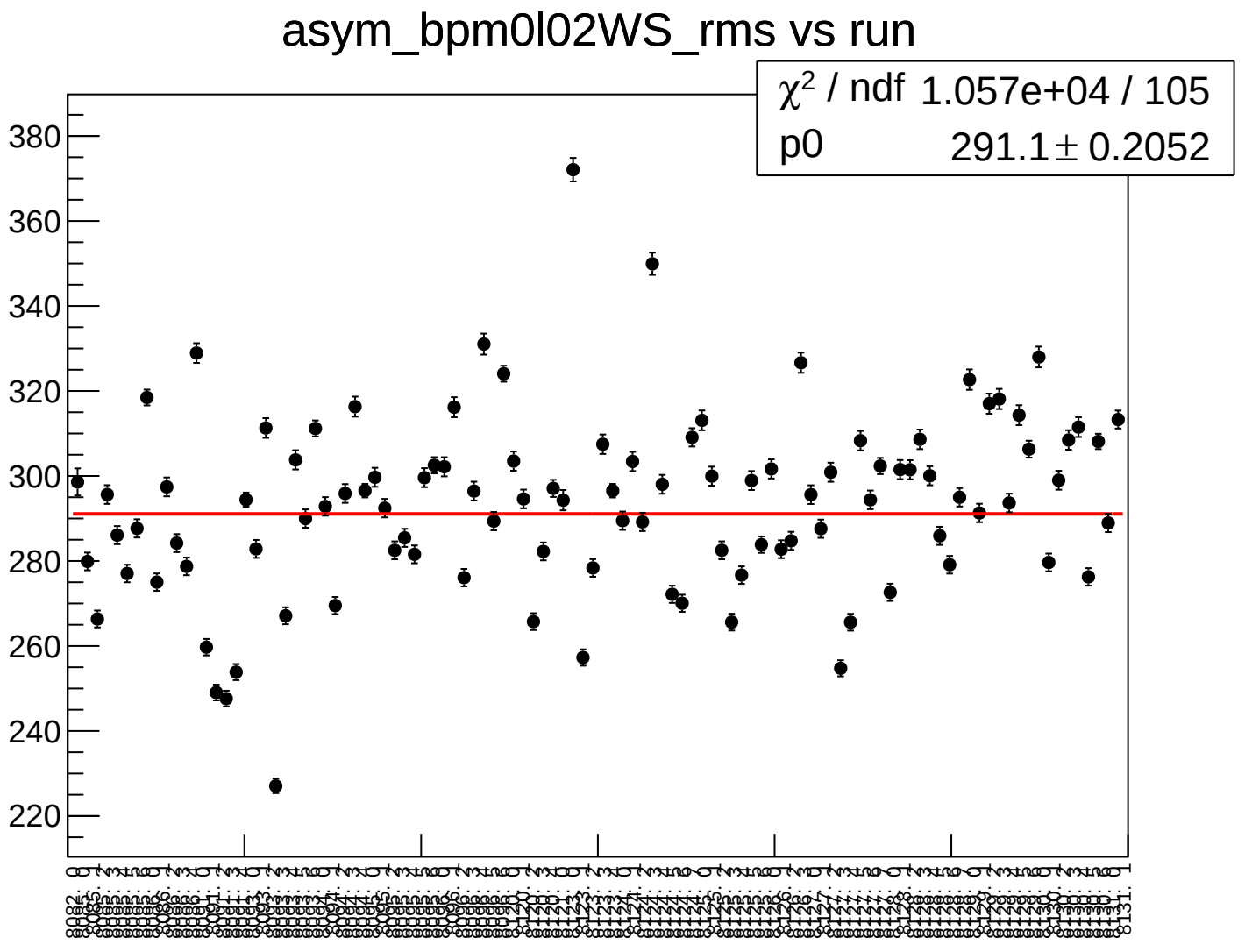

asym_bpm0l01WS_mean vs run
×10^3
χ^2 / ndf 2111 / 105
p0 −2937 ± 212.3
pull
Entries 106
Mean −206.6
Std Dev 0

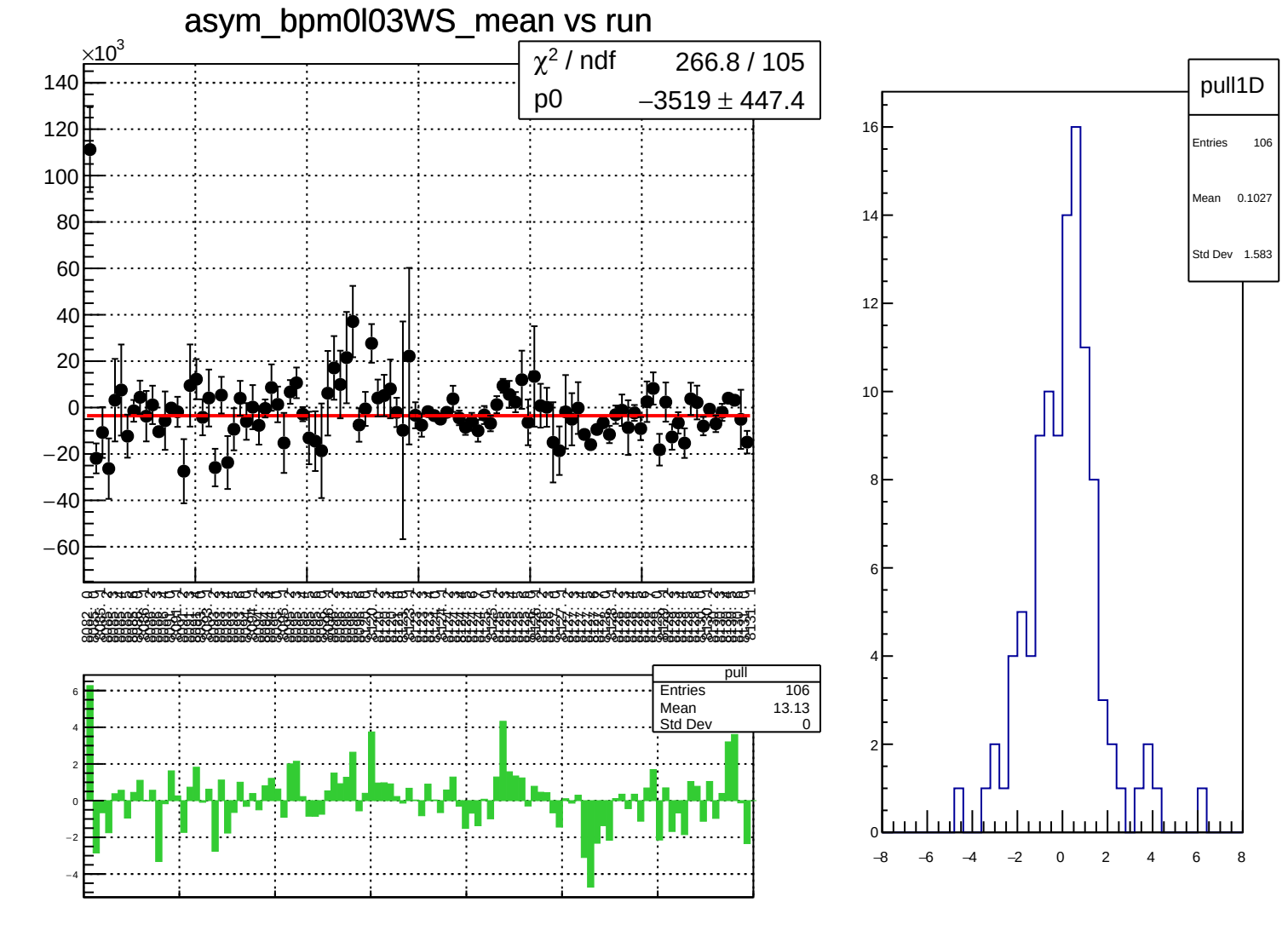

pull1D
Entries 106
Mean −0.202
Std Dev 2.931

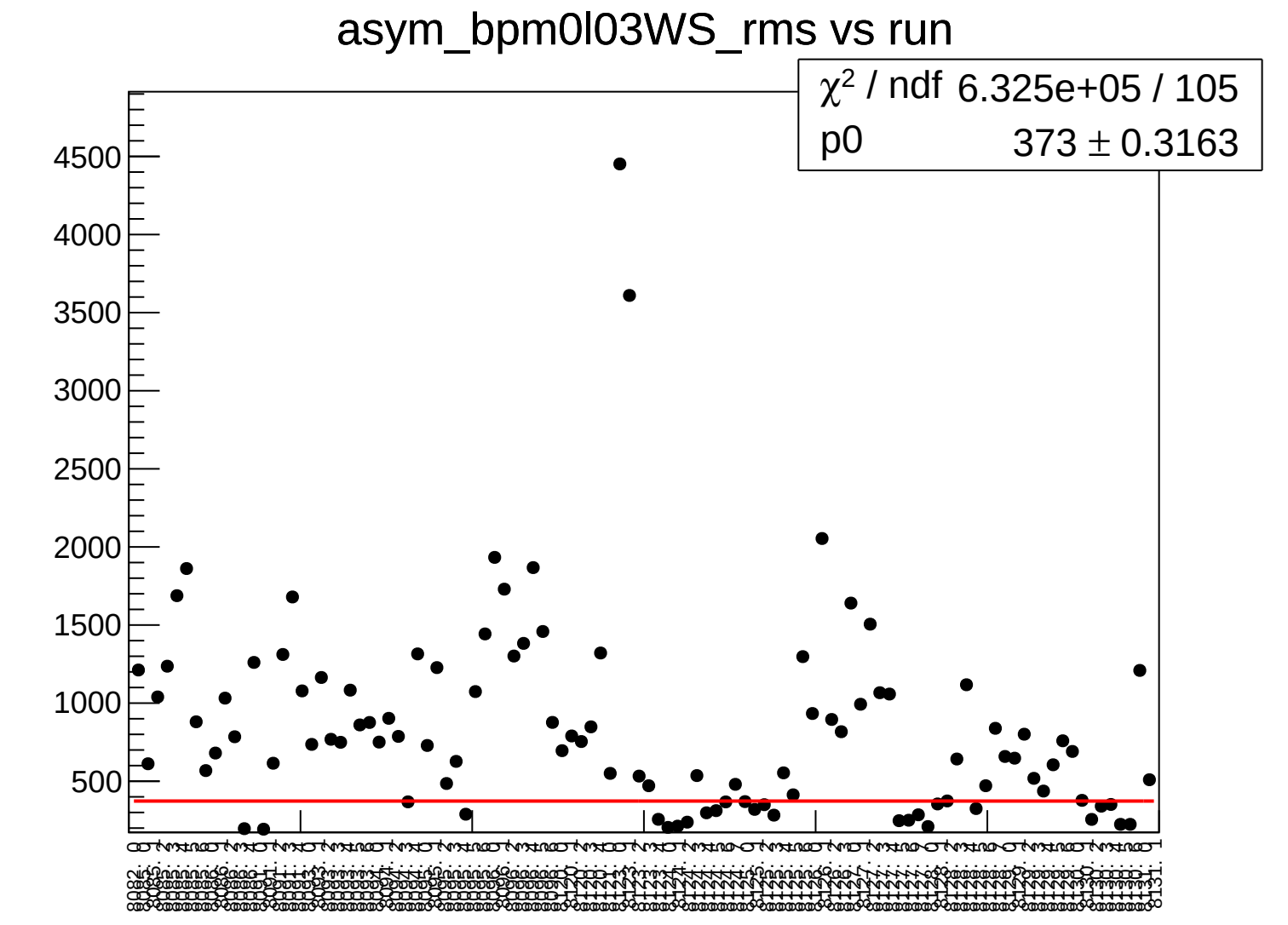

asym_bpm0l01WS_rms vs run
$\chi^2$ / ndf 9051 / 105
p0 213.1 ± 0.1501
300
280
260
240
220
200
180

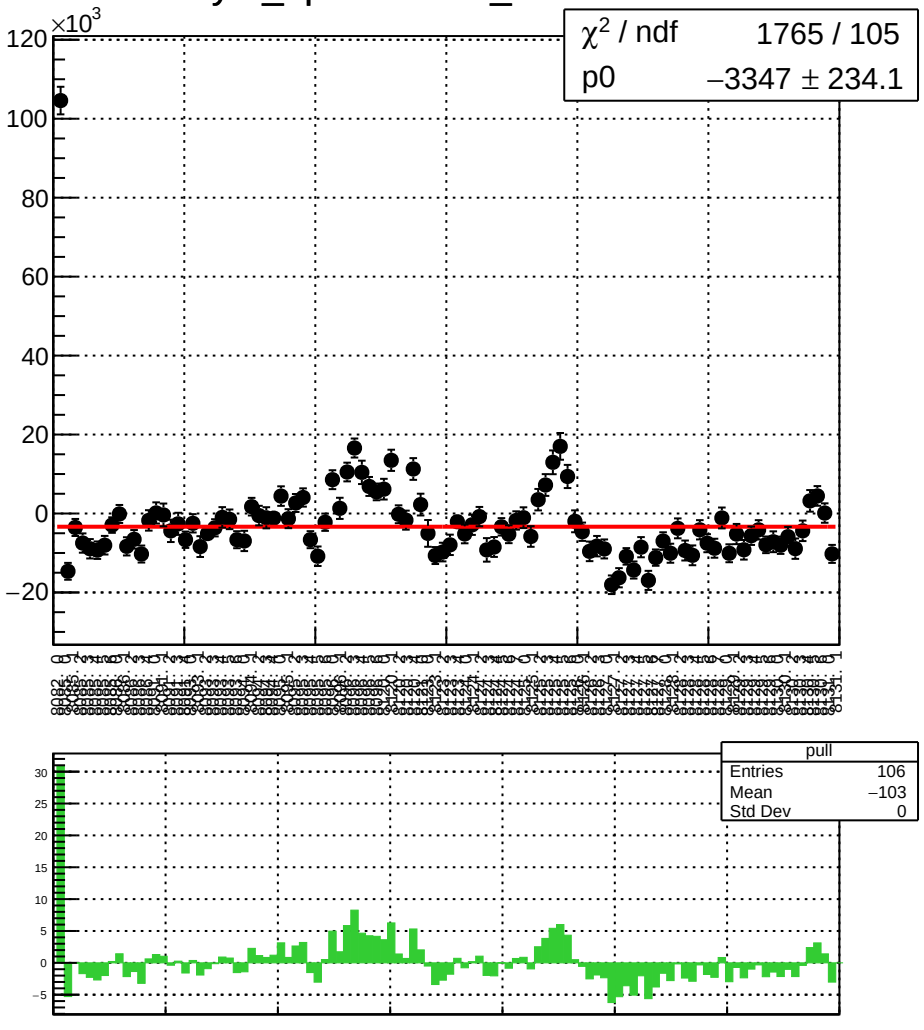

asym_bpm0l02WS_mean vs run
×10^3
χ^2 / ndf 1107 / 105
p0 −2757 ± 290.2
120
100
80
60
40
20
0
−20
pull
Entries 106
Mean −383.5
Std Dev 0
25
20
15
10
5
0
−5

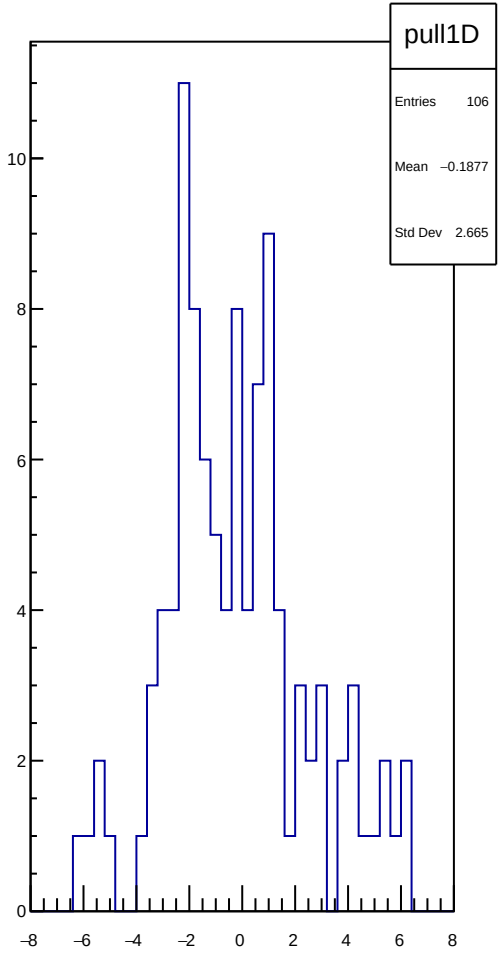

pull1D
Entries 106
Mean −0.1748
Std Dev 2.193
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

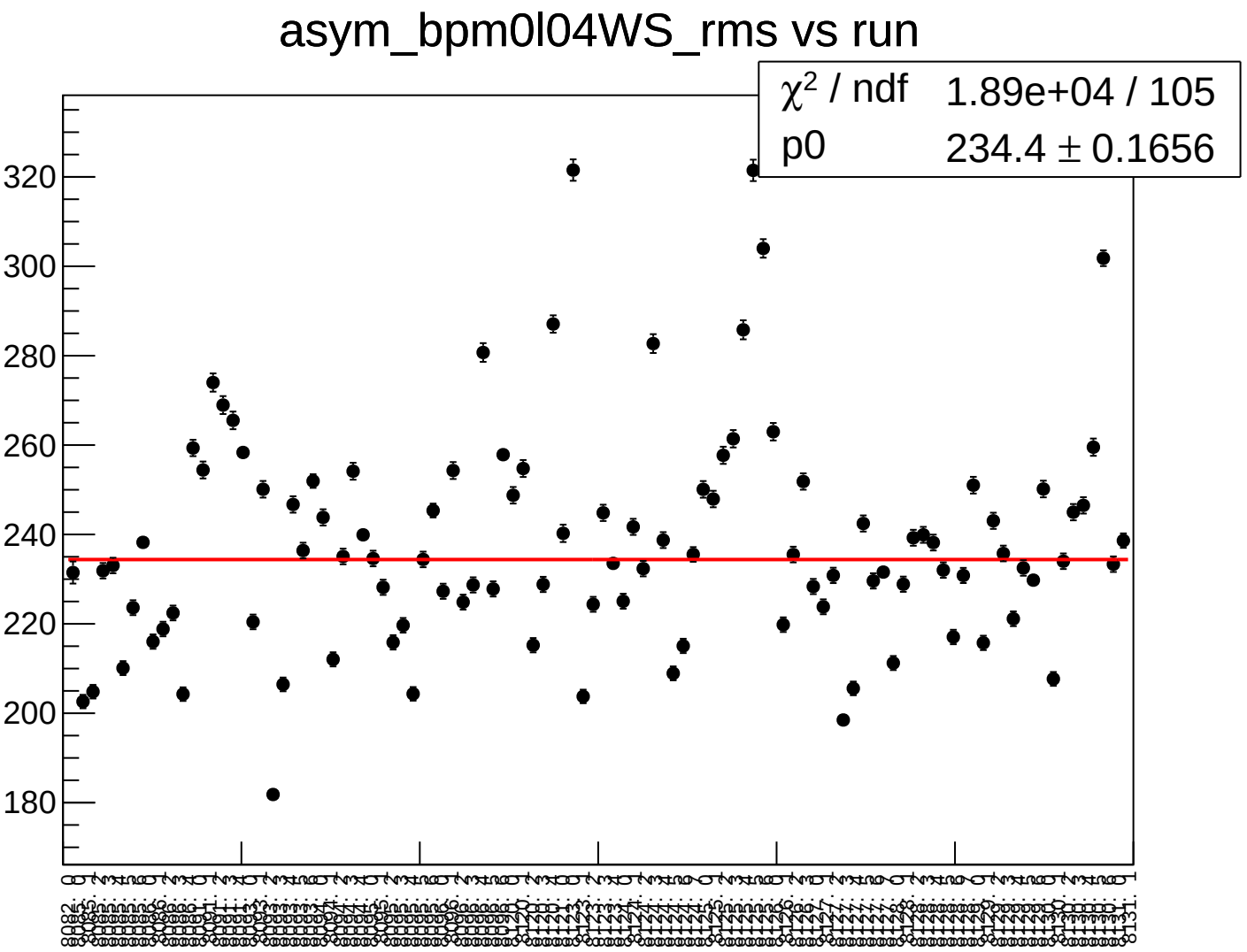

asym_bpm0l02WS_rms vs run
χ² / ndf 1.057e+04 / 105
p0 291.1 ± 0.2052
380
360
340
320
300
280
260
240
220

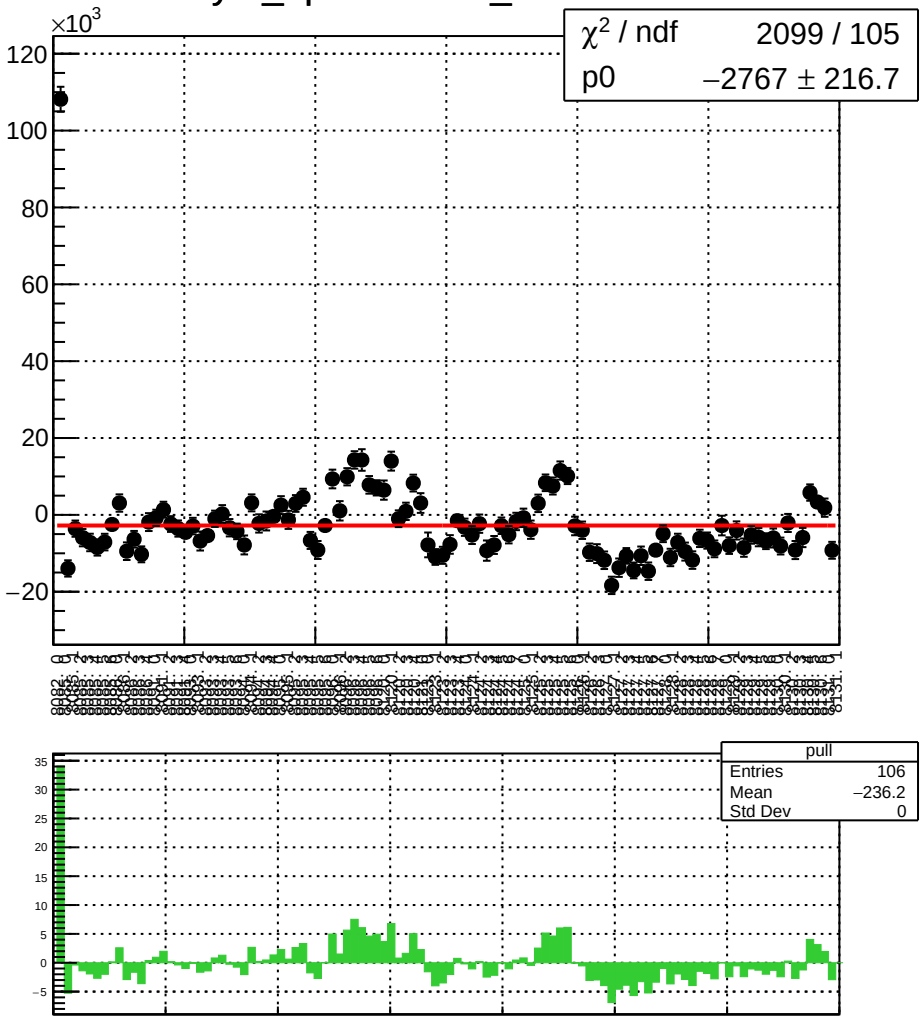

asym_bpm0l03WS_mean vs run
×10^3
χ^2 / ndf 266.8 / 105
p0 −3519 ± 447.4
pull
Entries 106
Mean 13.13
Std Dev 0
pull1D
Entries 106
Mean 0.1027
Std Dev 1.583

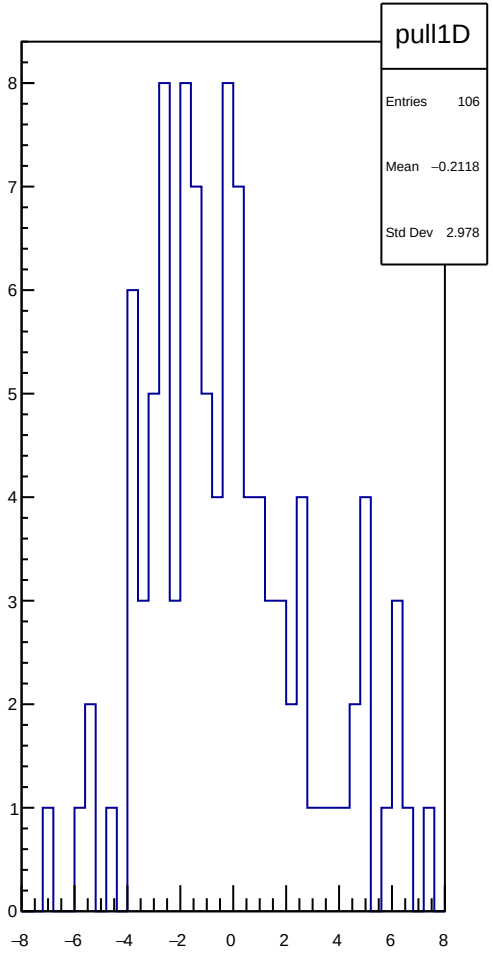

asym_bpm0l03WS_rms vs run
$\chi^2$ / ndf 6.325e+05 / 105
p0 373 ± 0.3163
4500
4000
3500
3000
2500
2000
1500
1000
500

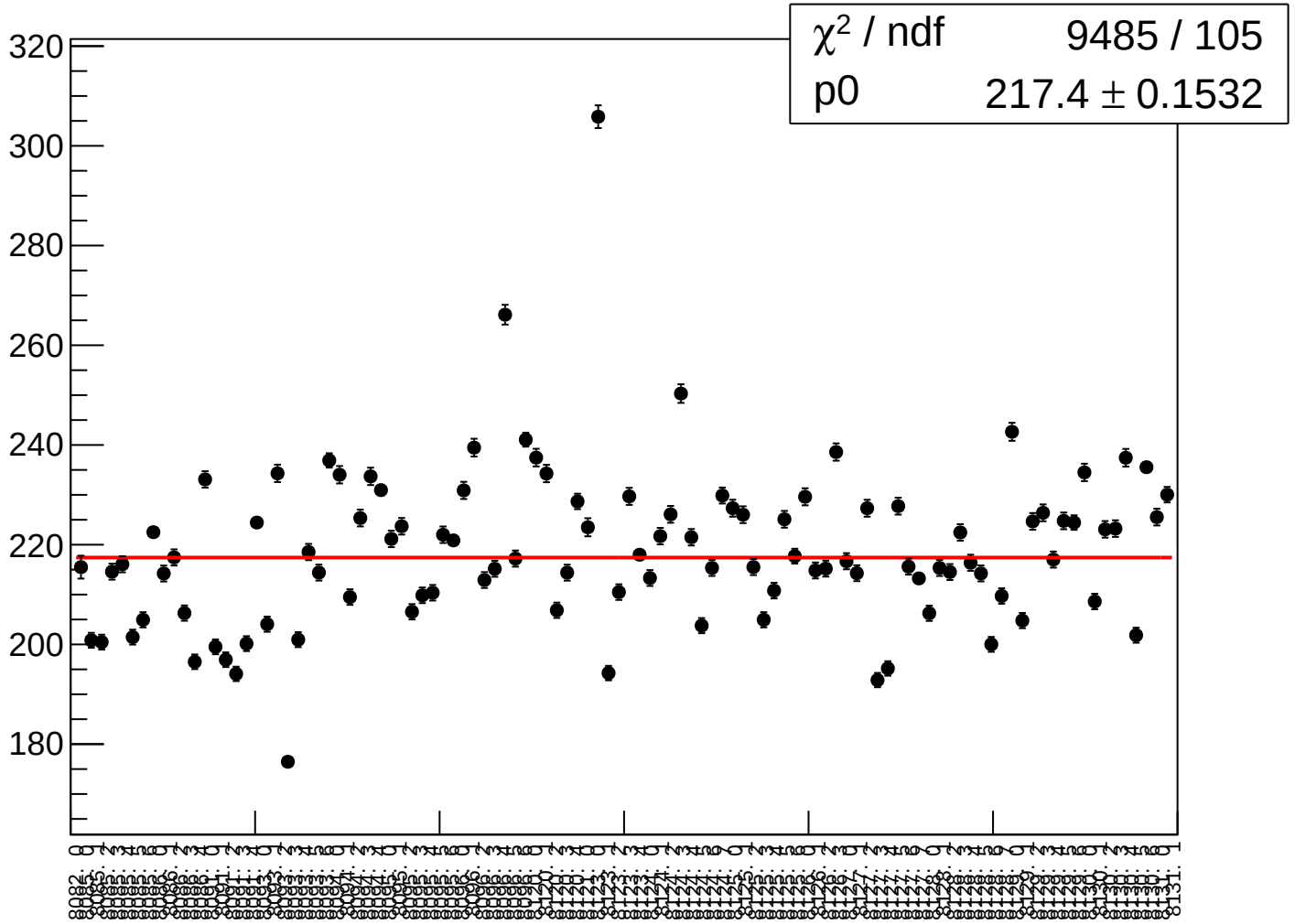

asym_bpm0l04WS_mean vs run
×10^3
χ² / ndf 1765 / 105
p0 −3347 ± 234.1
120
100
80
60
40
20
0
−20
pull
Entries 106
Mean −103
Std Dev 0
30
25
20
15
10
5
0
−5

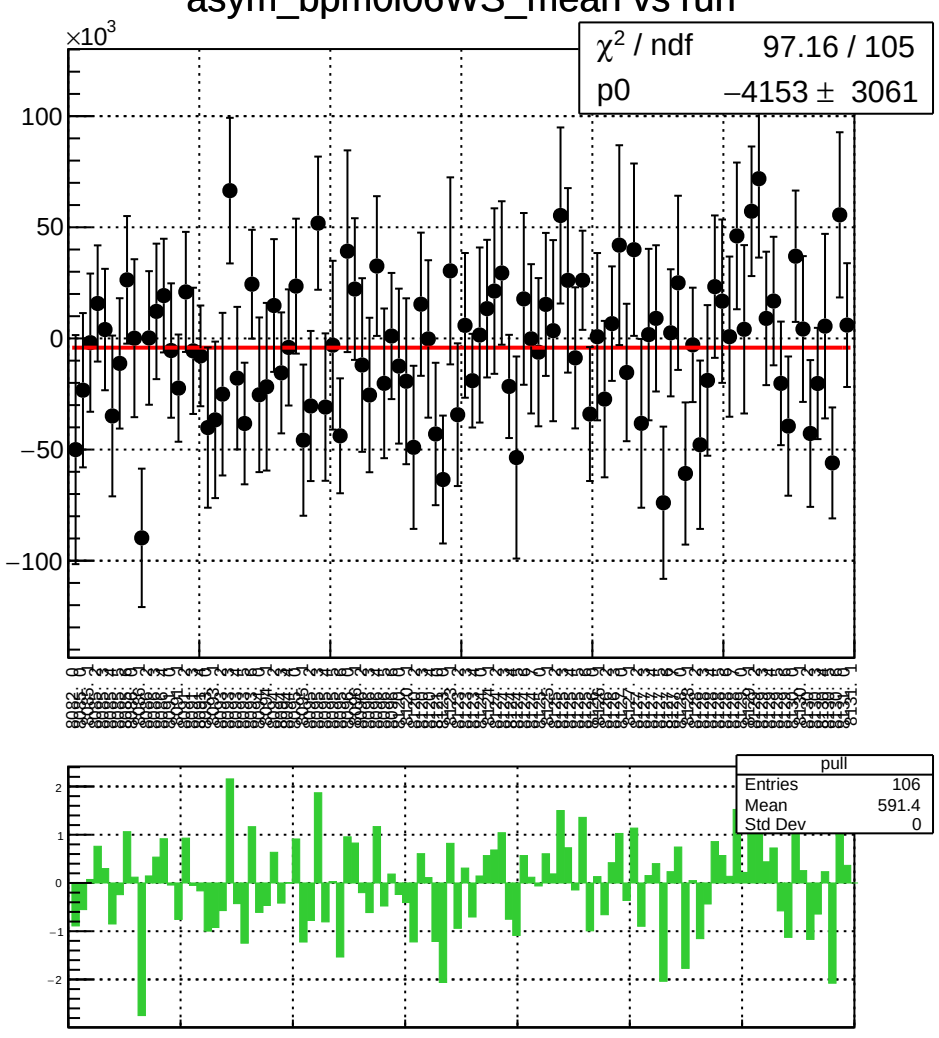

pull1D
Entries 106
Mean −0.1877
Std Dev 2.665
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

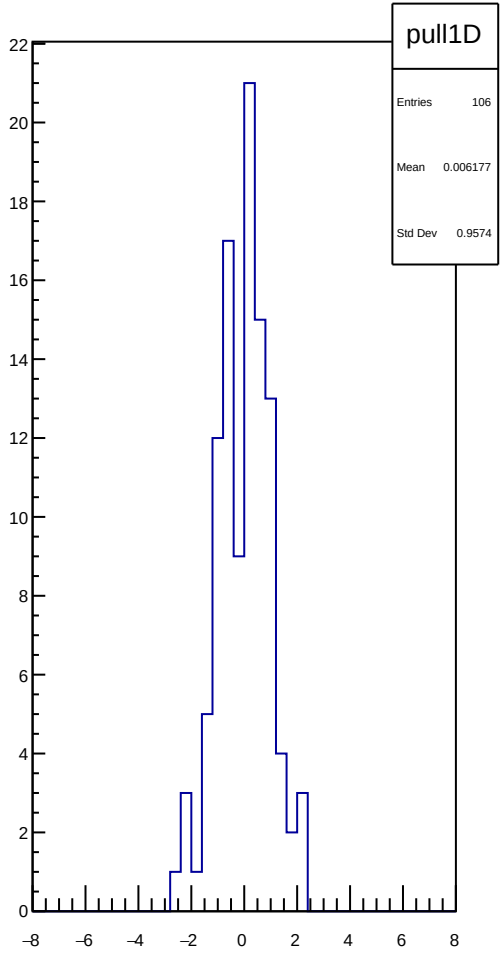

asym_bpm0l04WS_rms vs run
χ² / ndf 1.89e+04 / 105
p0 234.4 ± 0.1656
320
300
280
260
240
220
200
180

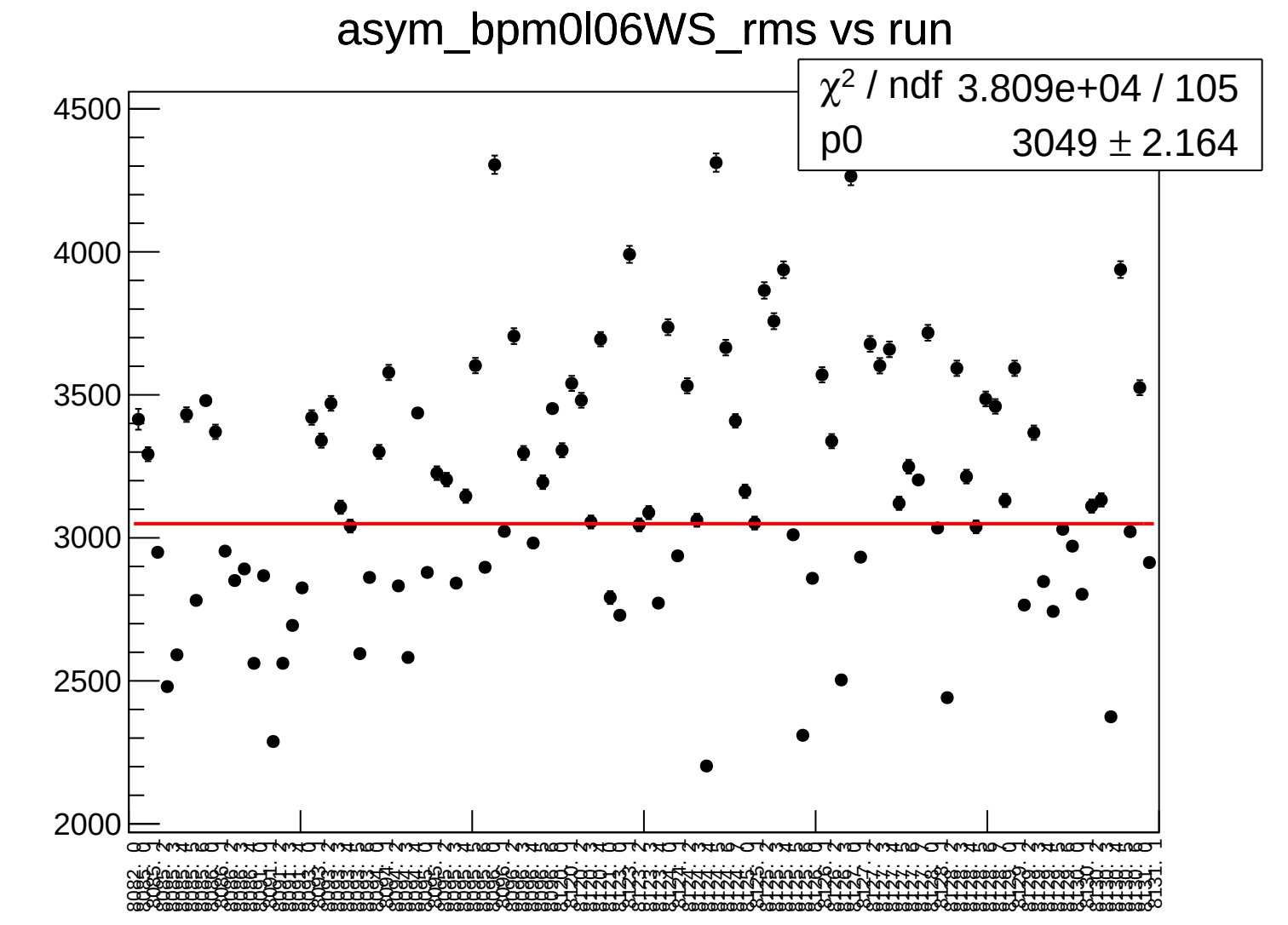

asym_bpm0l05WS_mean vs run
×10^3
χ^2 / ndf 2099 / 105
p0 −2767 ± 216.7
pull
Entries 106
Mean −236.2
Std Dev 0

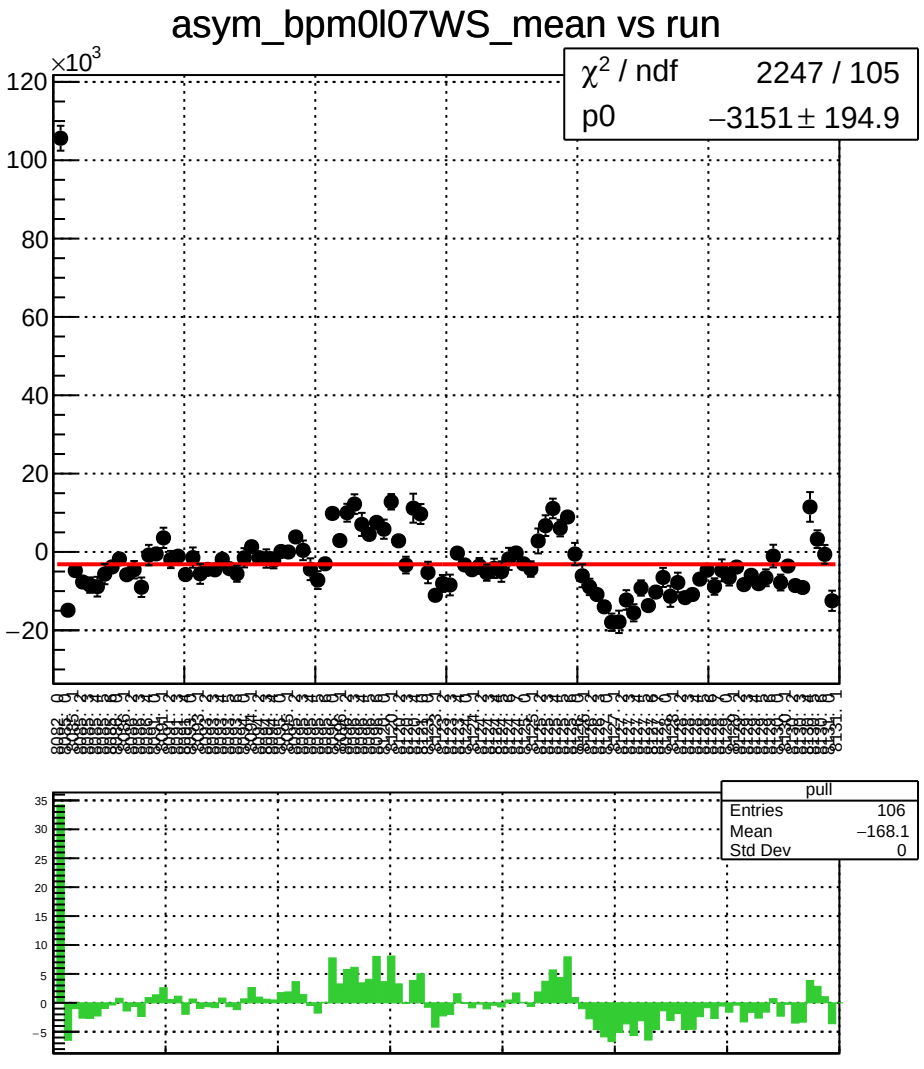

pull1D
Entries 106
Mean −0.2118
Std Dev 2.978

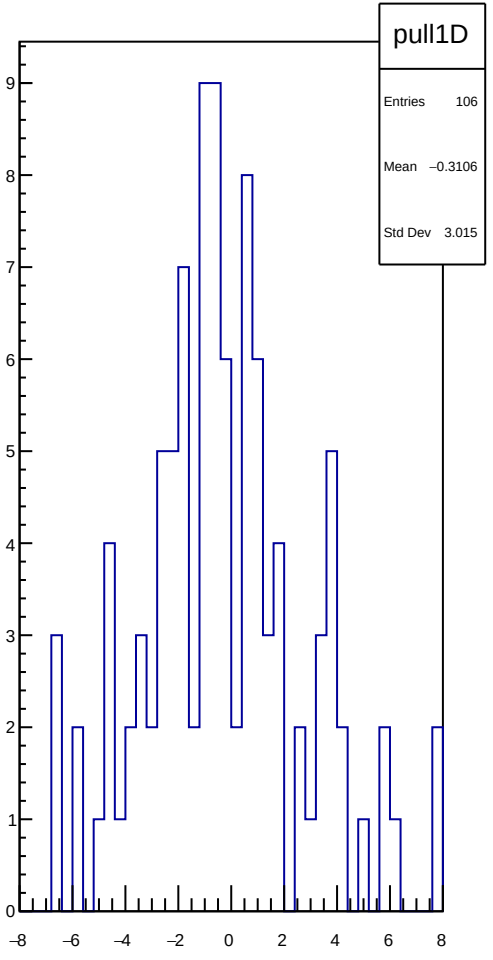

asym_bpm0l05WS_rms vs run
$\chi^2$ / ndf 9485 / 105
p0 217.4 ± 0.1532
320
300
280
260
240
220
200
180

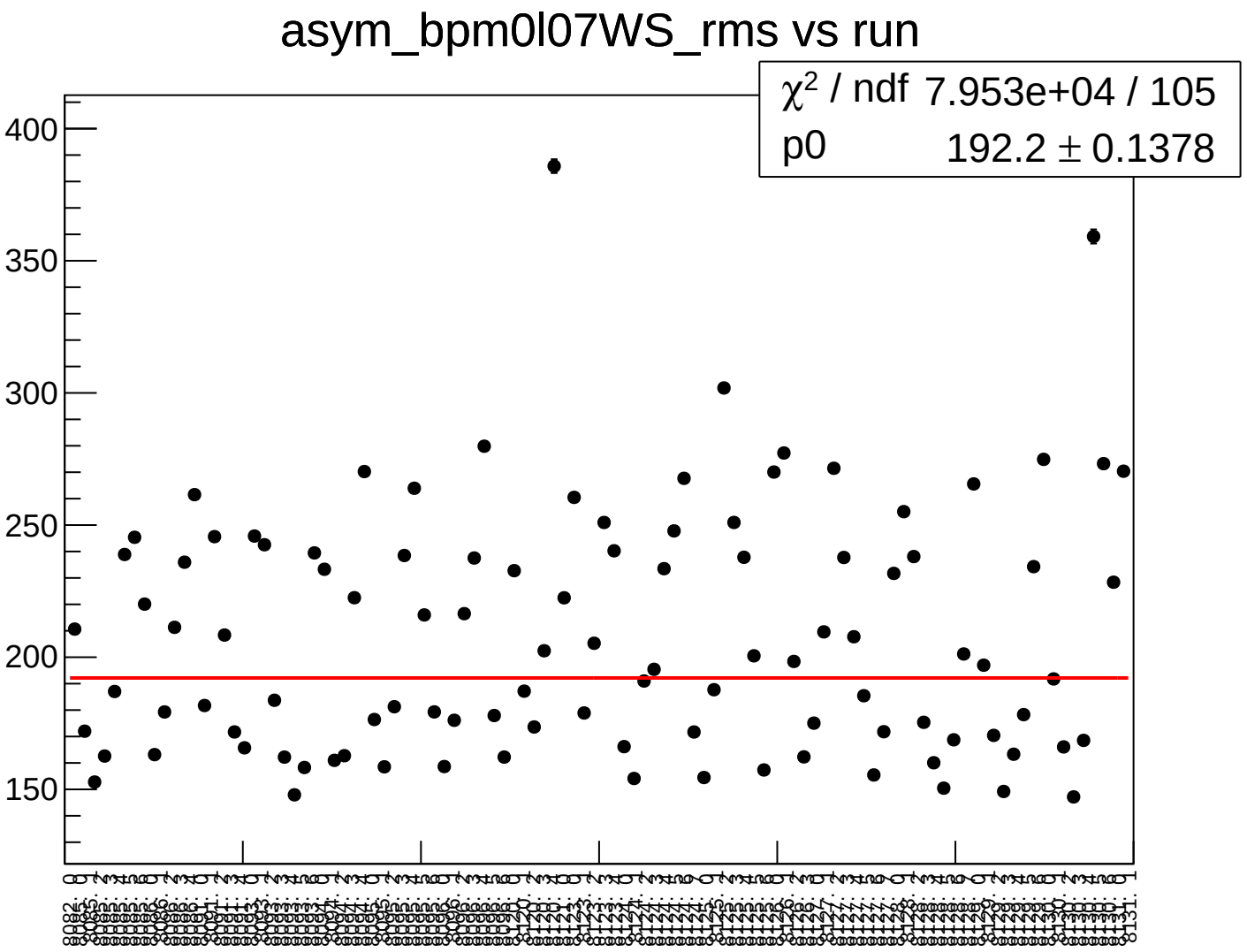

asym_bpm0l06WS_mean vs run
×10^3
χ^2 / ndf 97.16 / 105
p0 −4153 ± 3061
100
50
0
−50
−100
pull
Entries 106
Mean 591.4
Std Dev 0
2
1
0
−1
−2

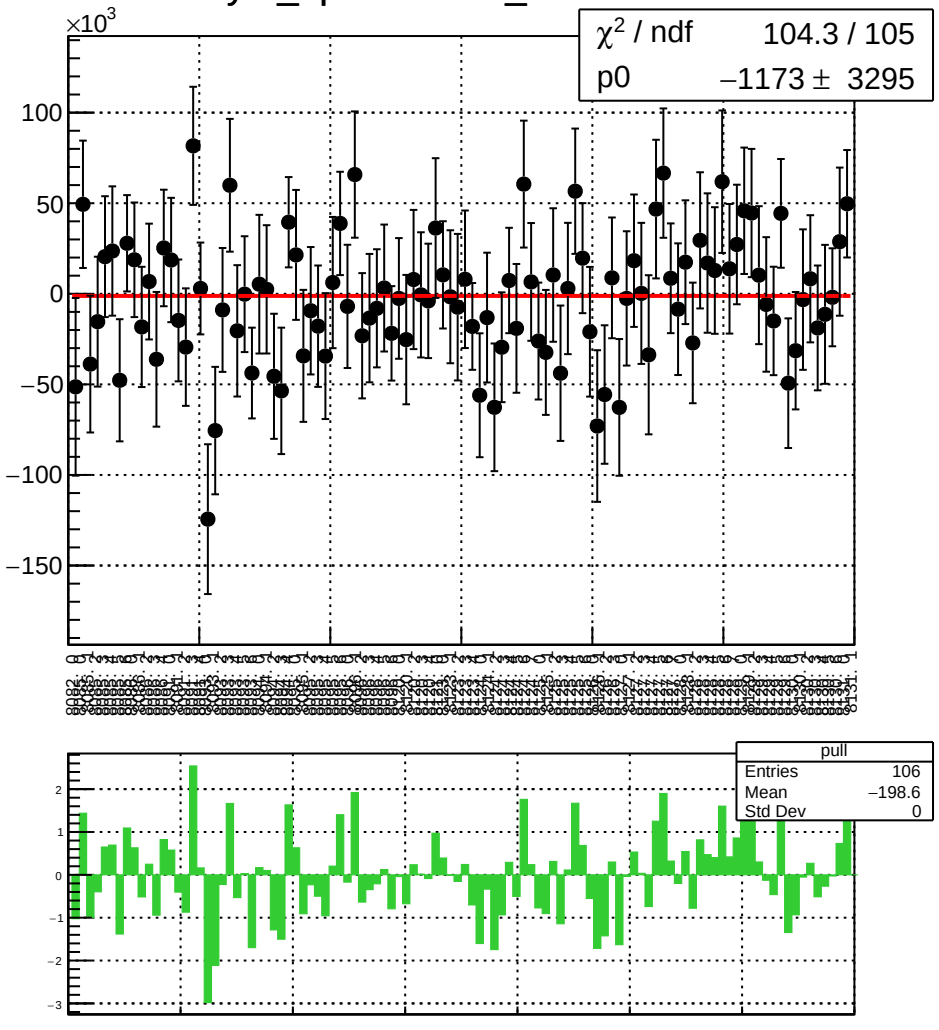

pull1D
Entries 106
Mean 0.006177
Std Dev 0.9574
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

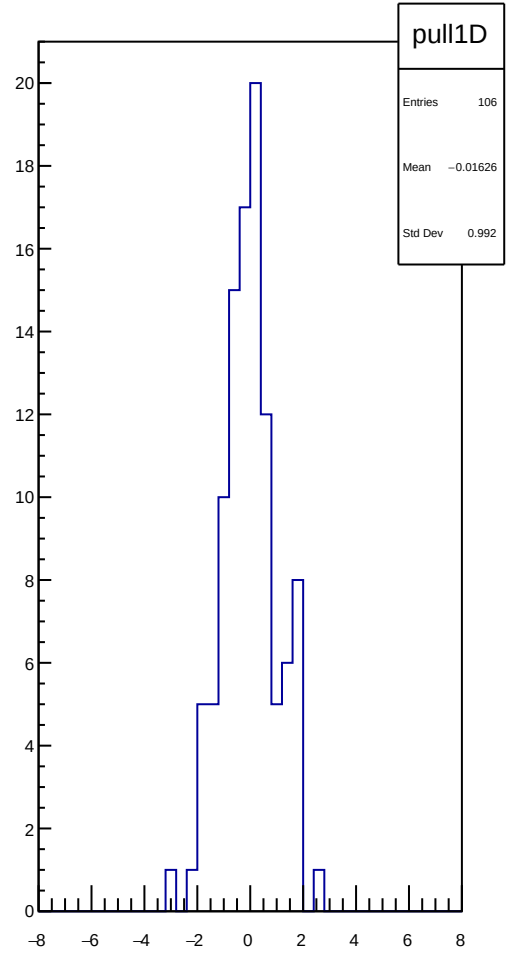

asym_bpm0l06WS_rms vs run
$\chi^2$ / ndf 3.809e+04 / 105
p0 3049 ± 2.164
4500
4000
3500
3000
2500
2000

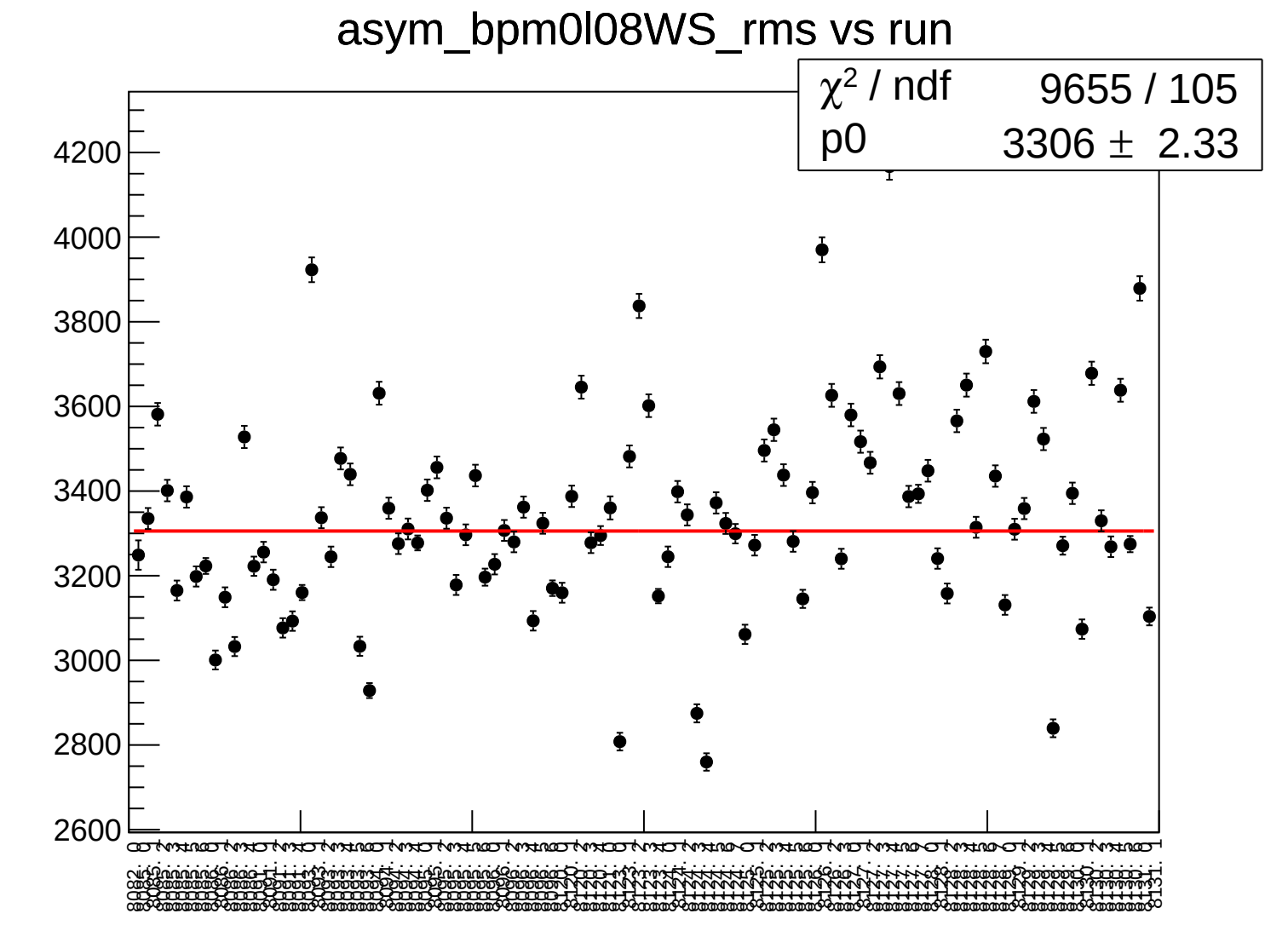

asym_bpm0l07WS_mean vs run
×10^3
χ^2 / ndf 2247 / 105
p0 −3151 ± 194.9
pull
Entries 106
Mean −168.1
Std Dev 0

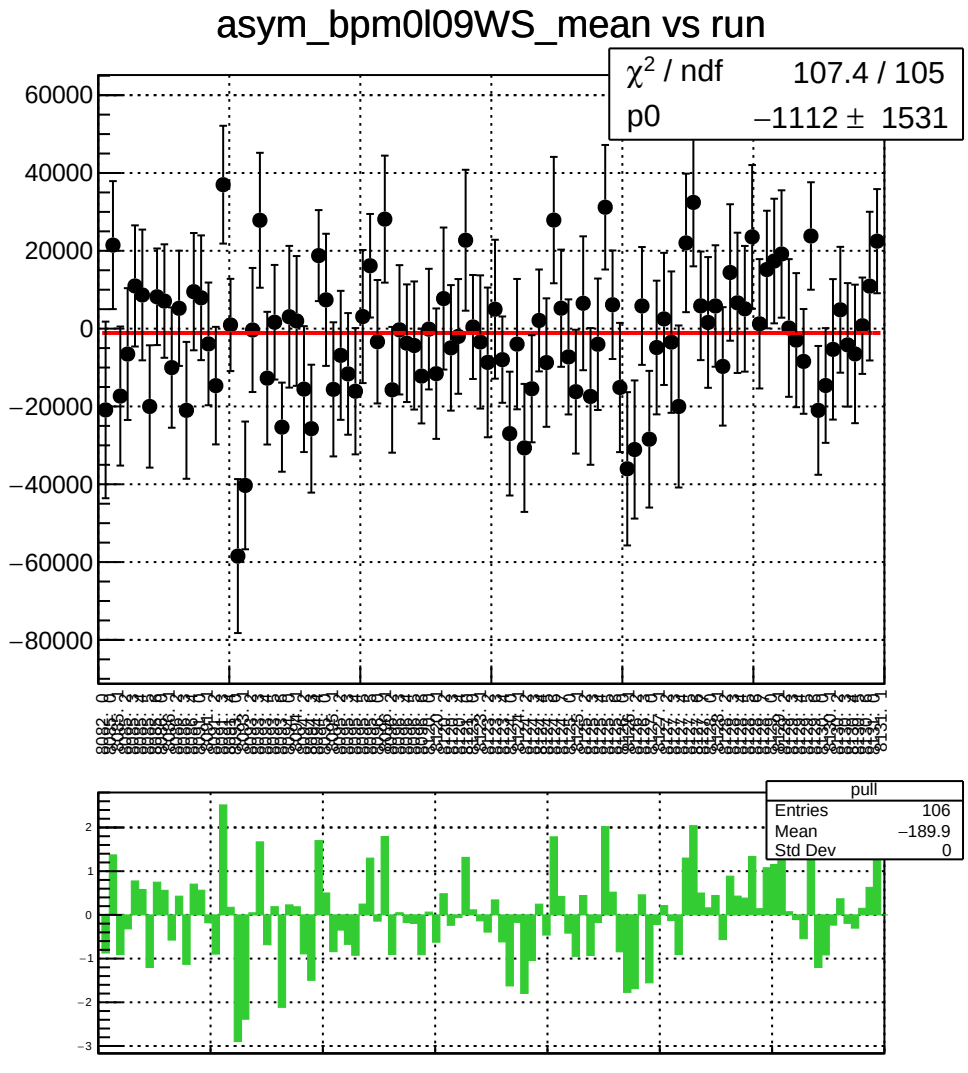

pull1D
Entries 106
Mean −0.3106
Std Dev 3.015

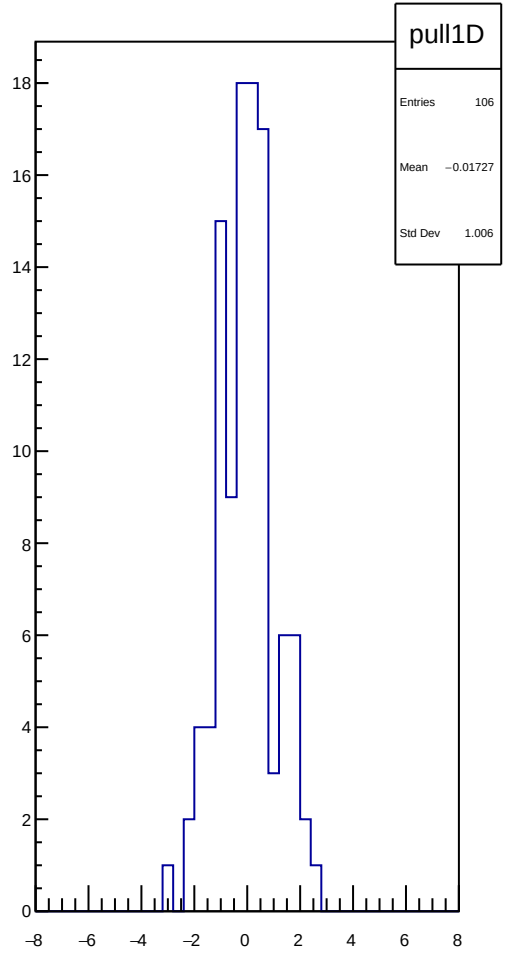

asym_bpm0l07WS_rms vs run
χ² / ndf 7.953e+04 / 105
p0 192.2 ± 0.1378
400
350
300
250
200
150

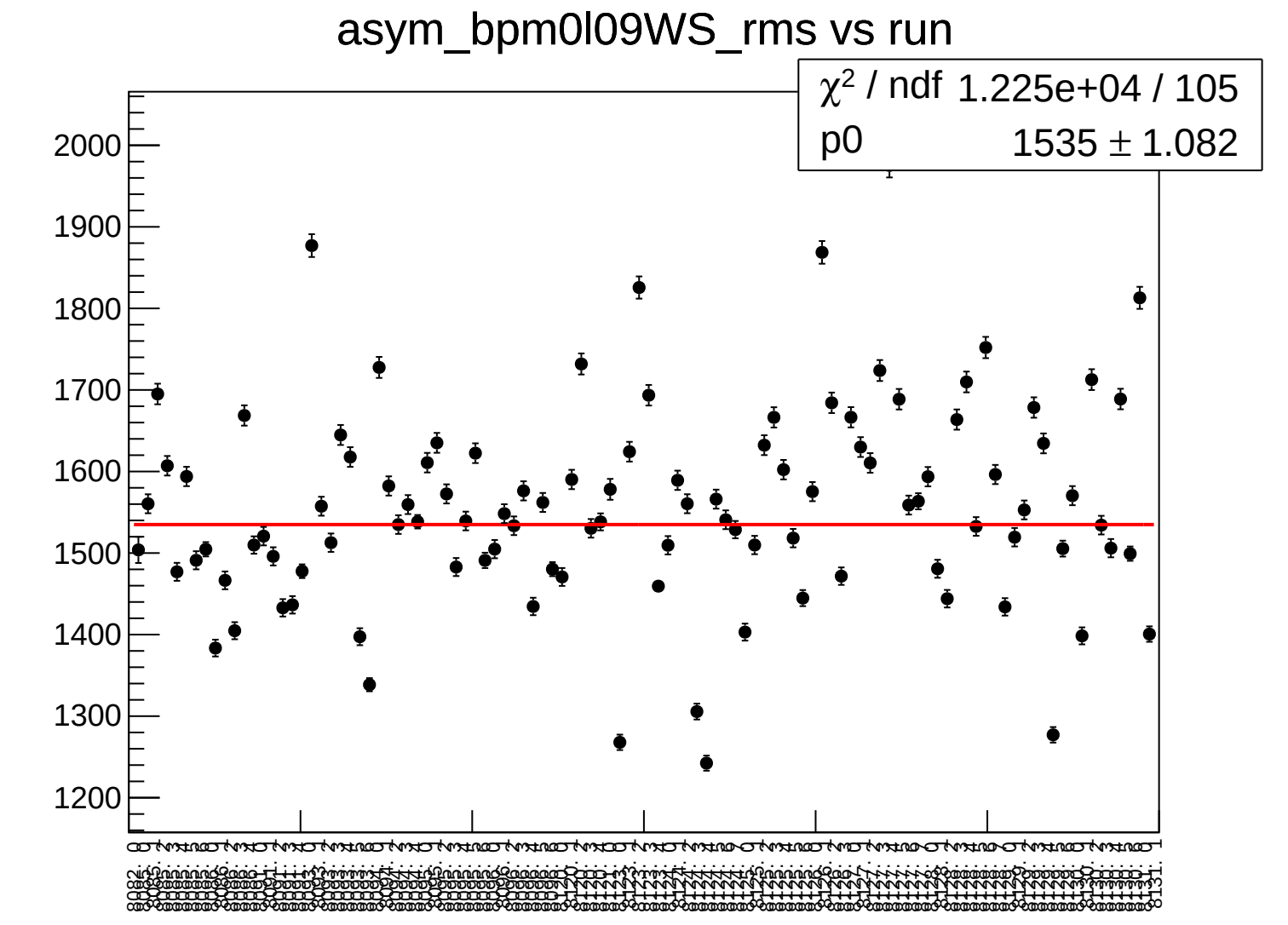

asym_bpm0l08WS_mean vs run
×10^3
χ^2 / ndf 104.3 / 105
p0 −1173 ± 3295
100
50
0
−50
−100
−150
pull
Entries 106
Mean −198.6
Std Dev 0
2
1
0
−1
−2
−3

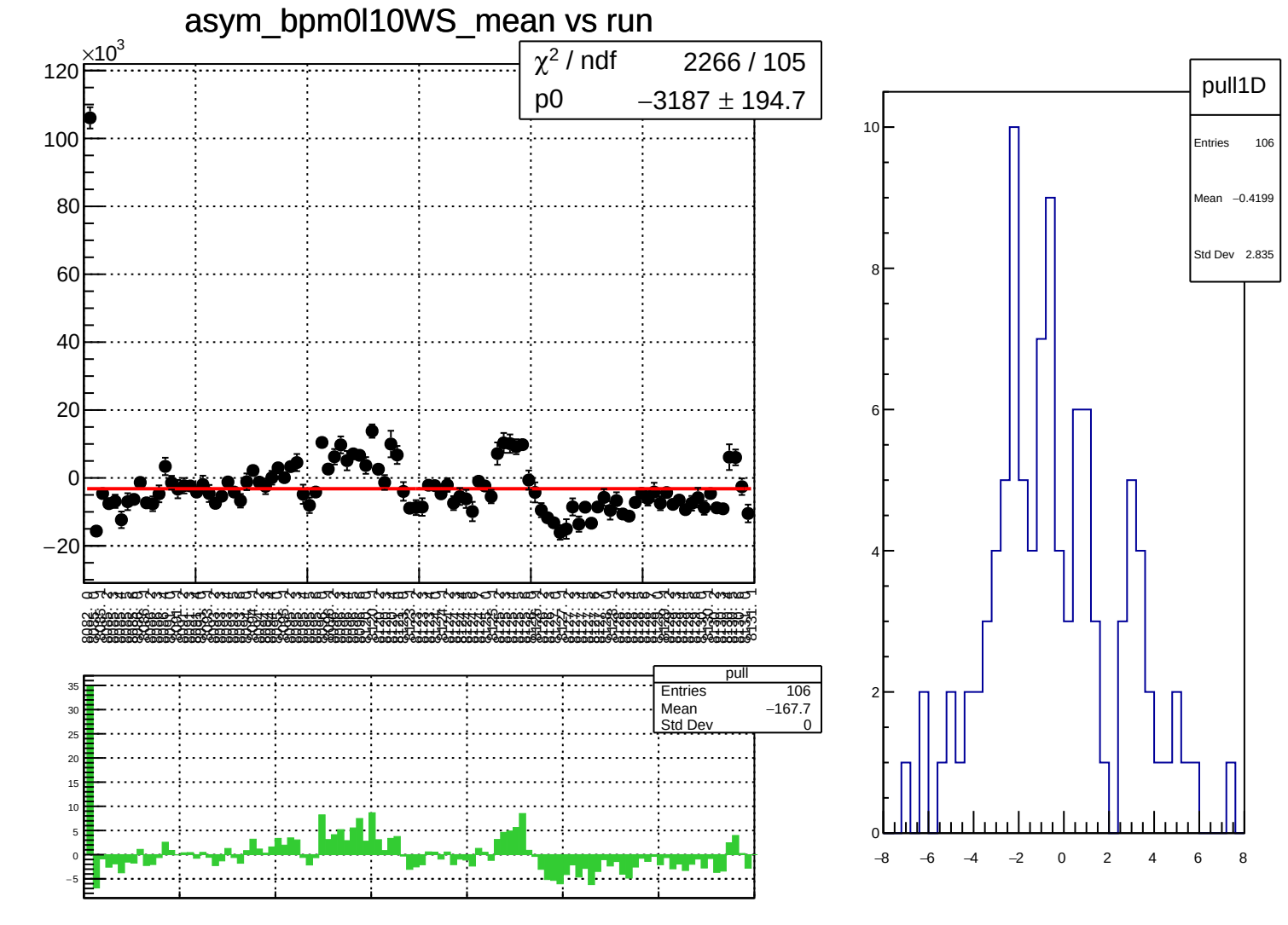

pull1D
Entries 106
Mean −0.01626
Std Dev 0.992
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

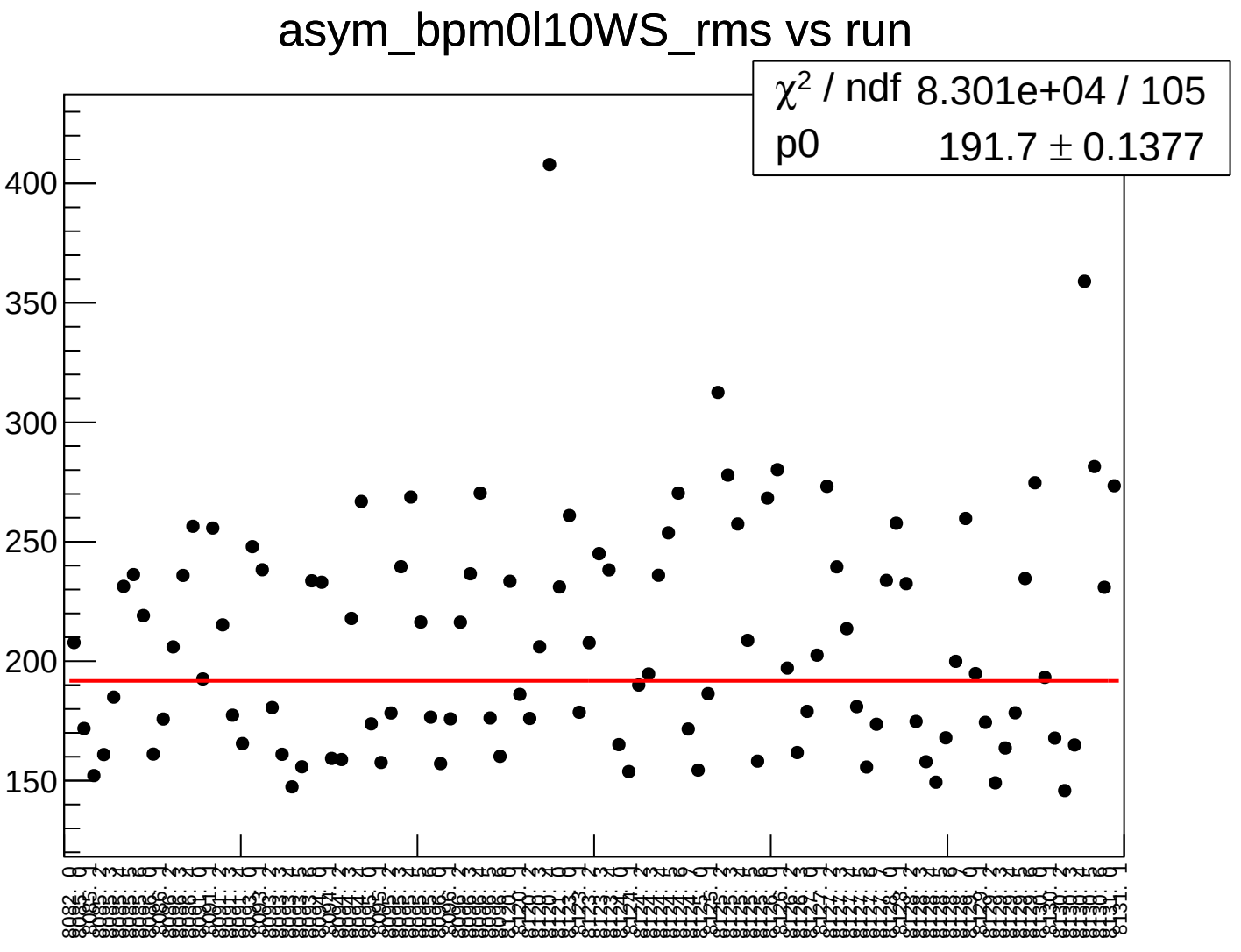

asym_bpm0l08WS_rms vs run
χ² / ndf 9655 / 105
p0 3306 ± 2.33
4200
4000
3800
3600
3400
3200
3000
2800
2600

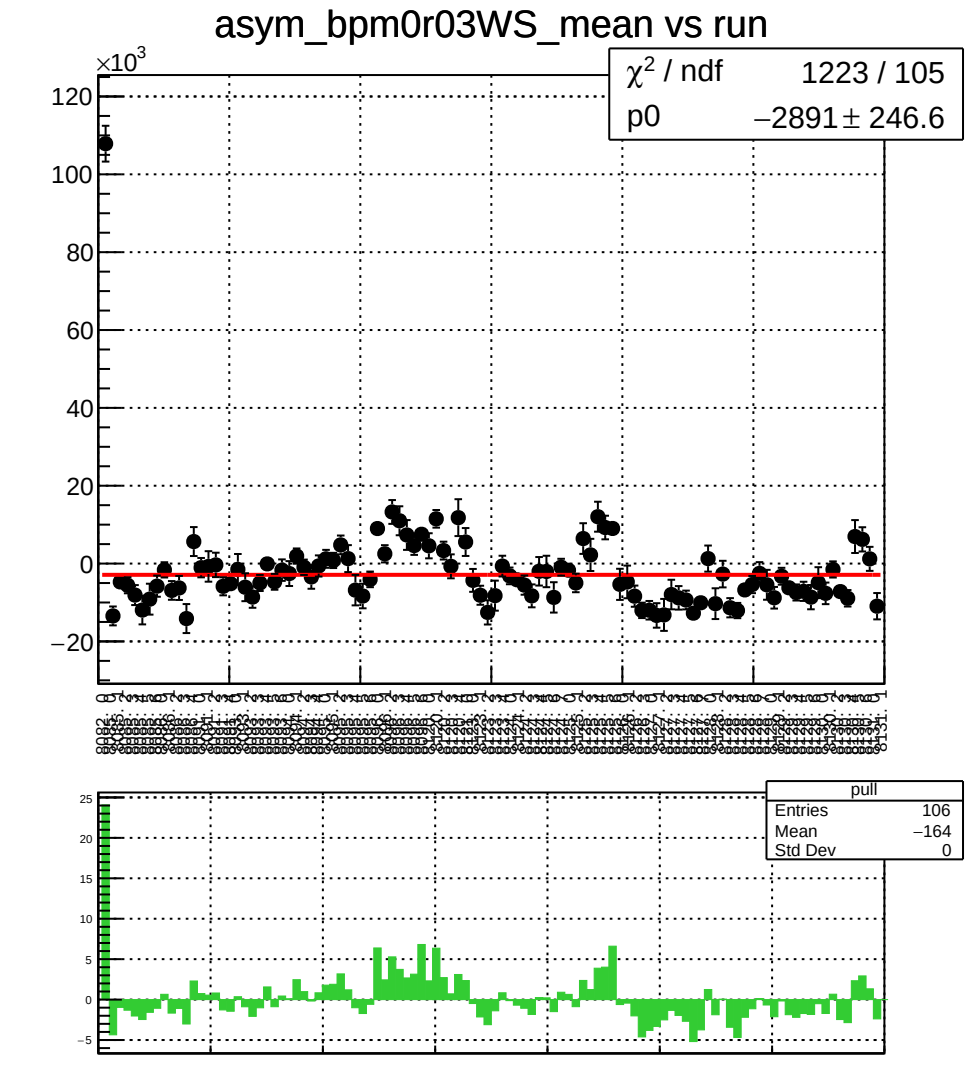

asym_bpm0l09WS_mean vs run
χ² / ndf 107.4 / 105
p0 −1112 ± 1531
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 106
Mean −189.9
Std Dev 0
2
1
0
−1
−2
−3

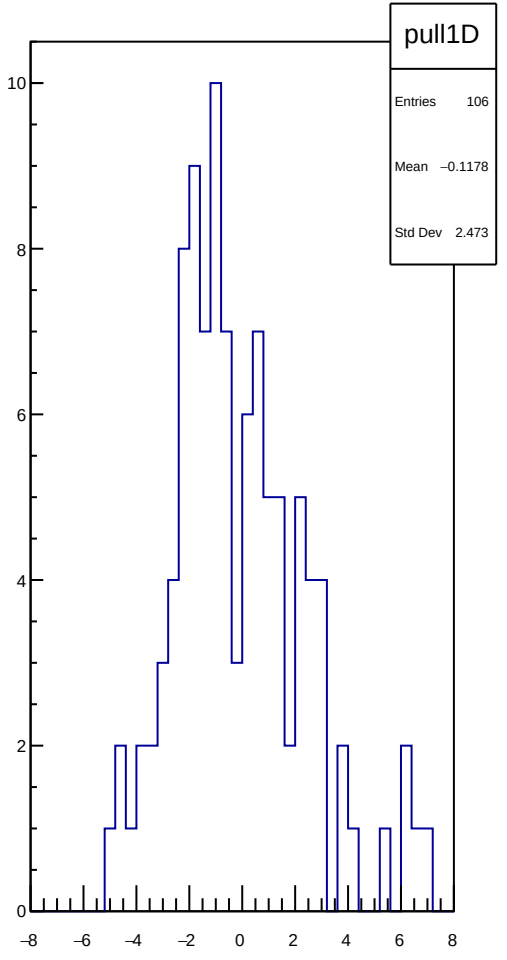

pull1D
Entries 106
Mean −0.01727
Std Dev 1.006
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

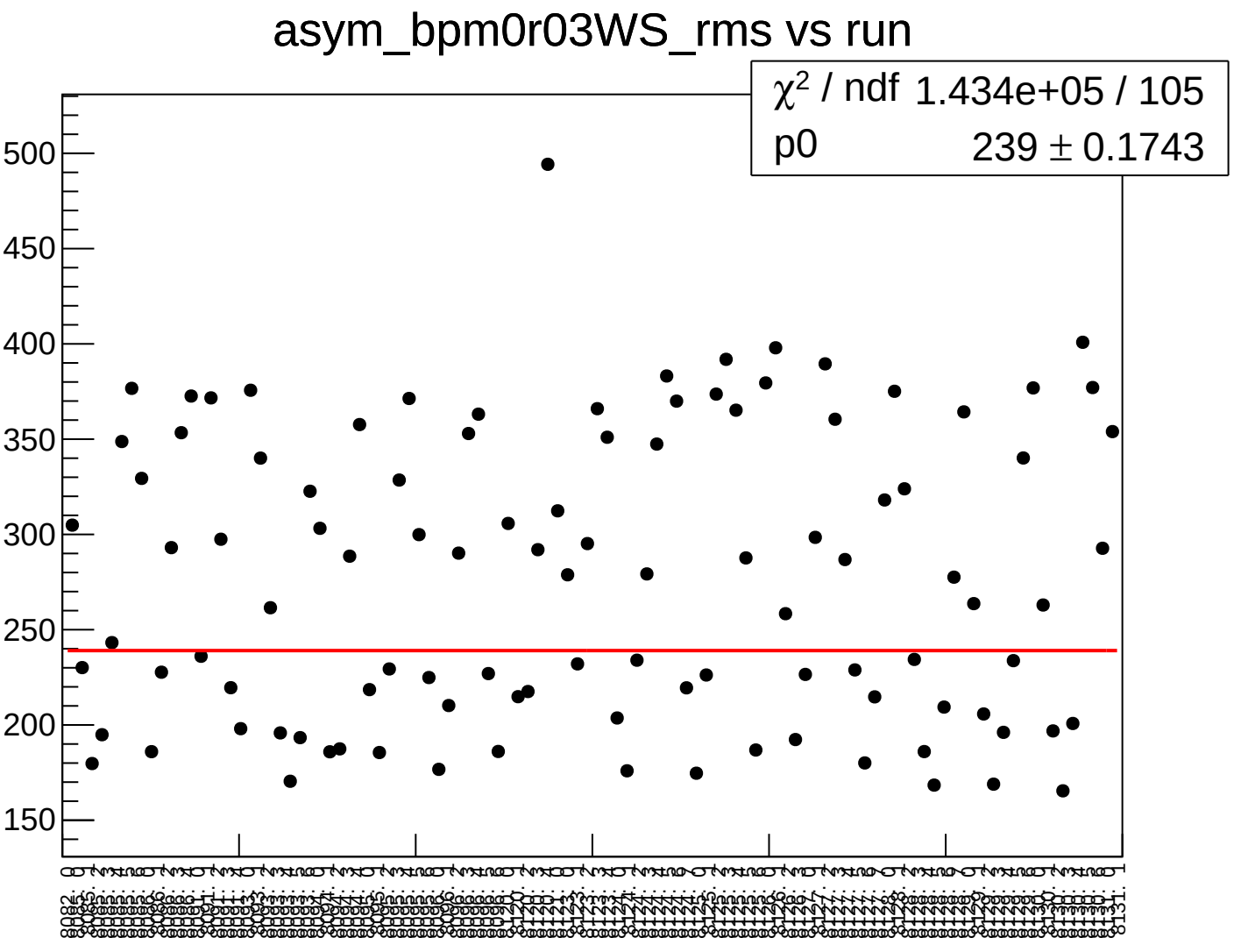

asym_bpm0l09WS_rms vs run
χ² / ndf 1.225e+04 / 105
p0 1535 ± 1.082
2000
1900
1800
1700
1600
1500
1400
1300
1200

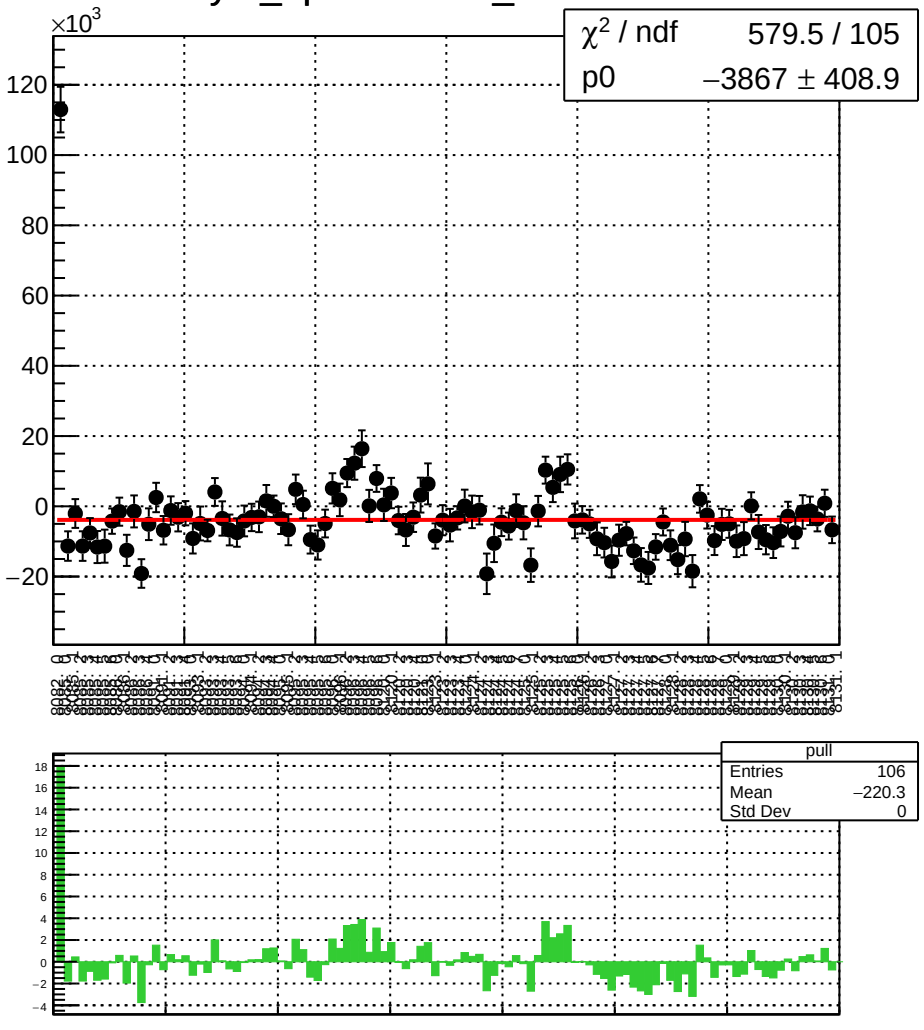

asym_bpm0l10WS_mean vs run
×10^3
χ^2 / ndf 2266 / 105
p0 −3187 ± 194.7
120
100
80
60
40
20
0
−20
pull
Entries 106
Mean −167.7
Std Dev 0
35
30
25
20
15
10
5
0
−5
pull1D
Entries 106
Mean −0.4199
Std Dev 2.835
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

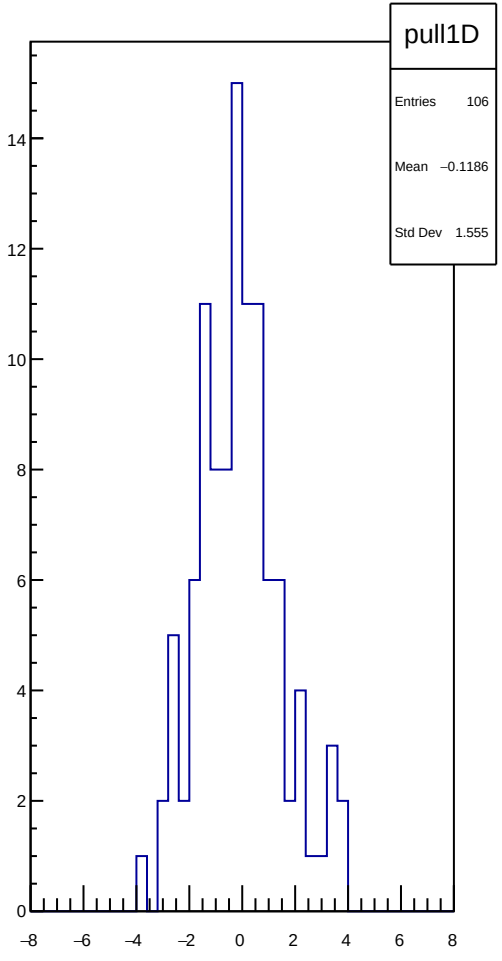

asym_bpm0l10WS_rms vs run
χ² / ndf 8.301e+04 / 105
p0 191.7 ± 0.1377
400
350
300
250
200
150

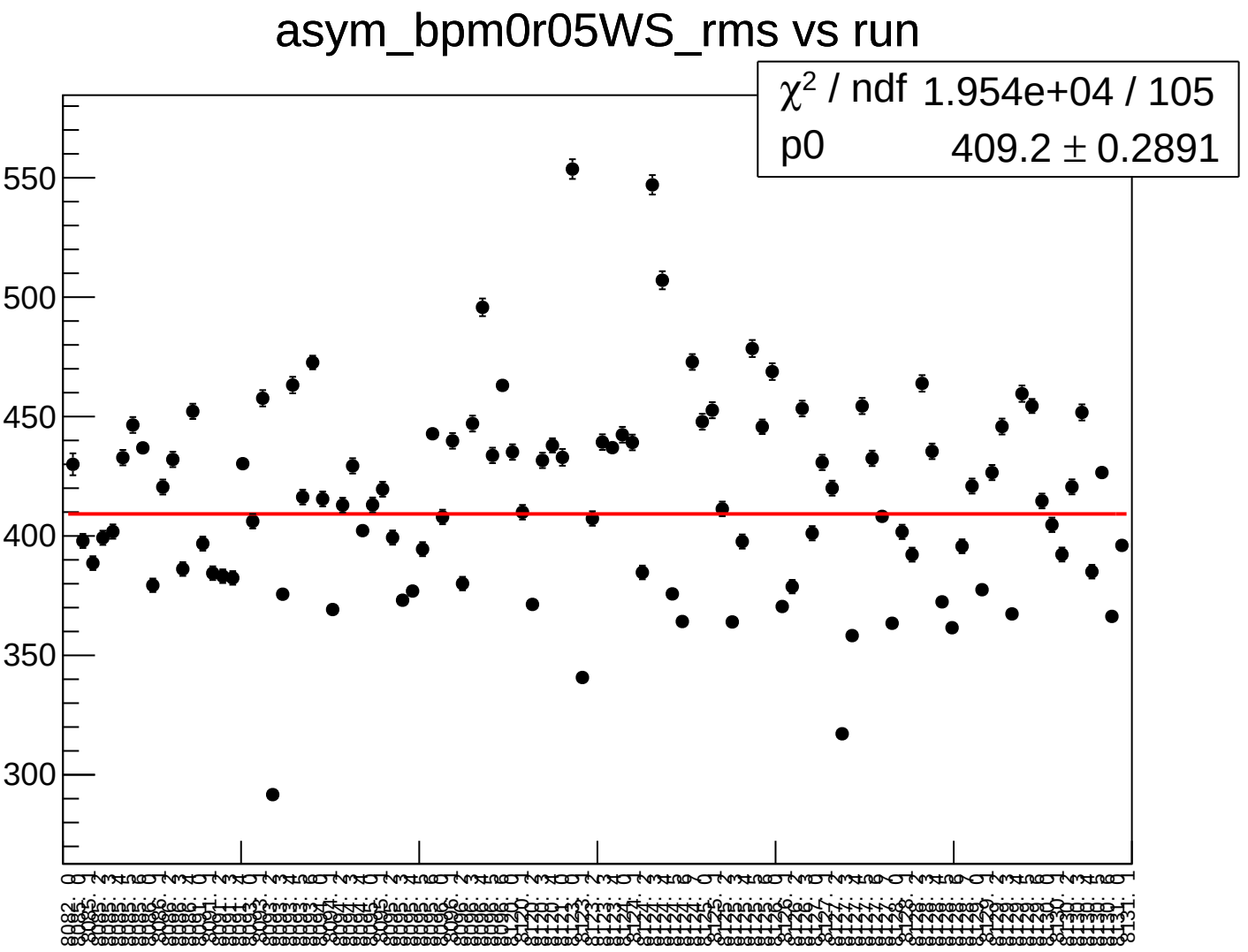

asym_bpm0r03WS_mean vs run
×10^3
χ^2 / ndf 1223 / 105
p0 −2891 ± 246.6
pull
Entries 106
Mean −164
Std Dev 0

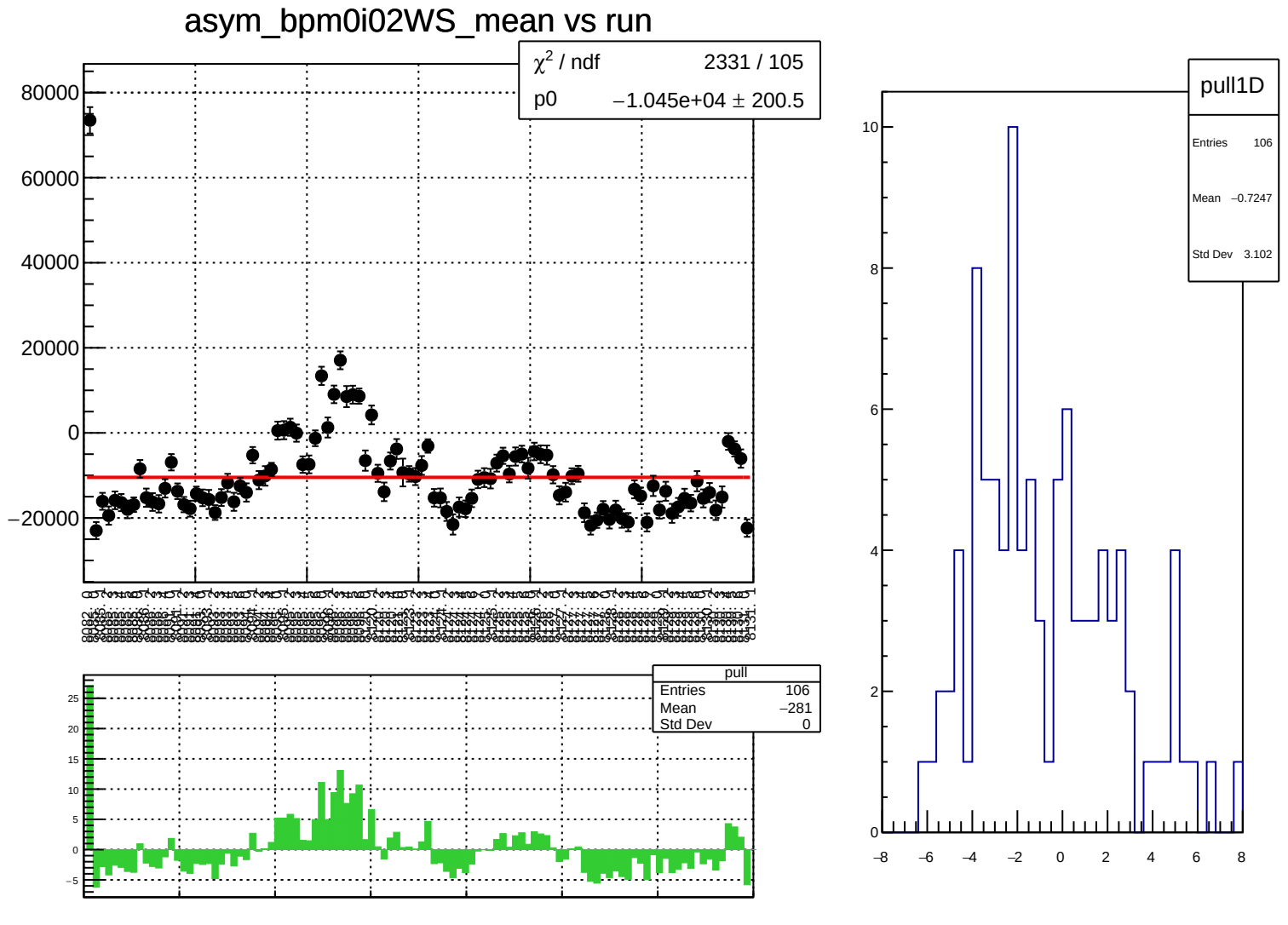

pull1D
Entries 106
Mean −0.1178
Std Dev 2.473

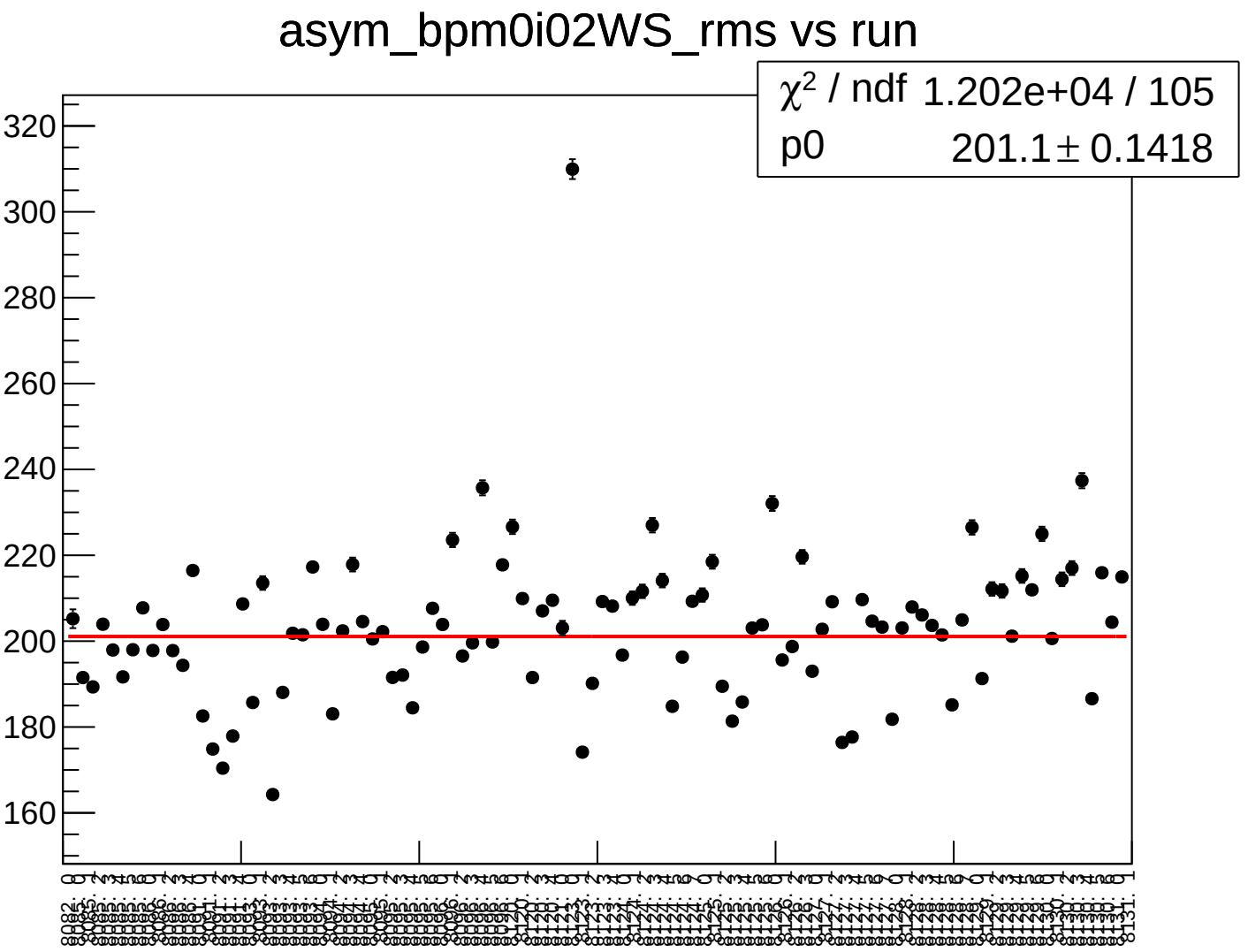

asym_bpm0r03WS_rms vs run
$\chi^2$ / ndf 1.434e+05 / 105
p0 239 ± 0.1743
500
450
400
350
300
250
200
150

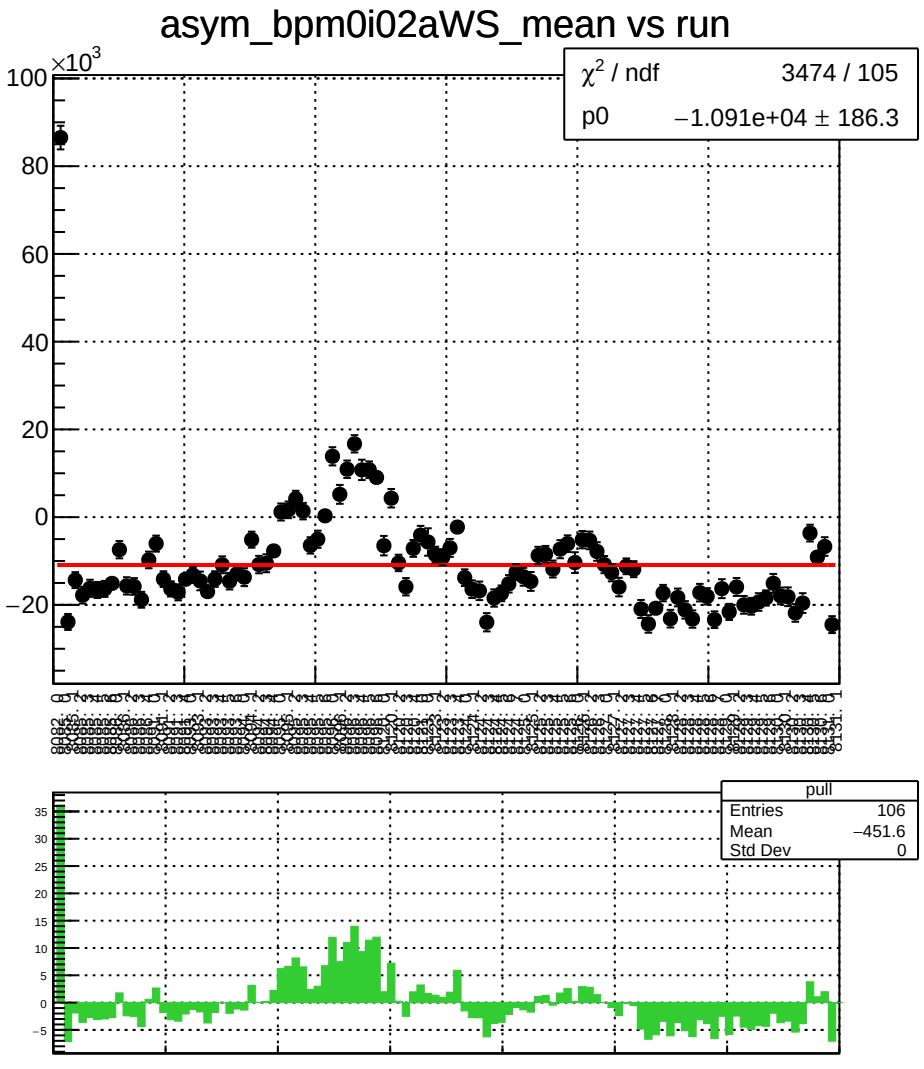

asym_bpm0r05WS_mean vs run
×10^3
χ^2 / ndf 579.5 / 105
p0 −3867 ± 408.9
120
100
80
60
40
20
0
−20
pull
Entries 106
Mean −220.3
Std Dev 0
18
16
14
12
10
8
6
4
2
0
−2
−4

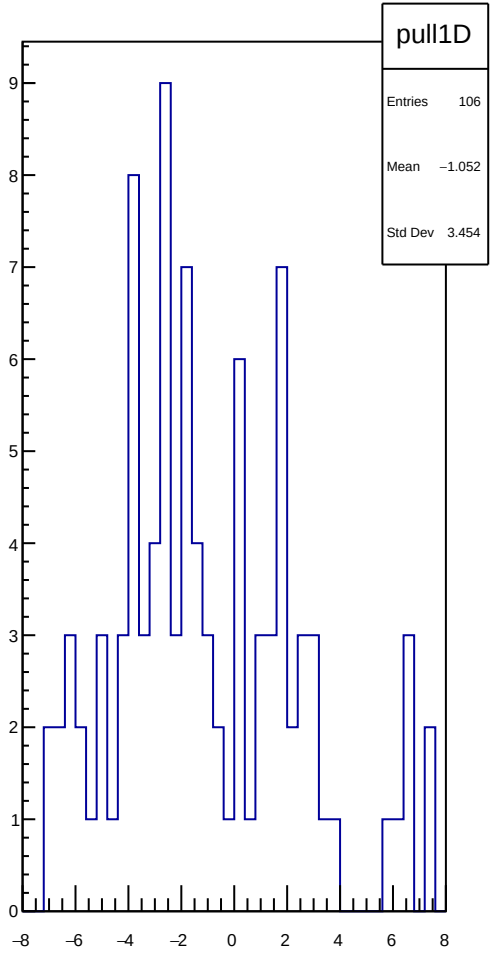

pull1D
Entries 106
Mean −0.1186
Std Dev 1.555
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

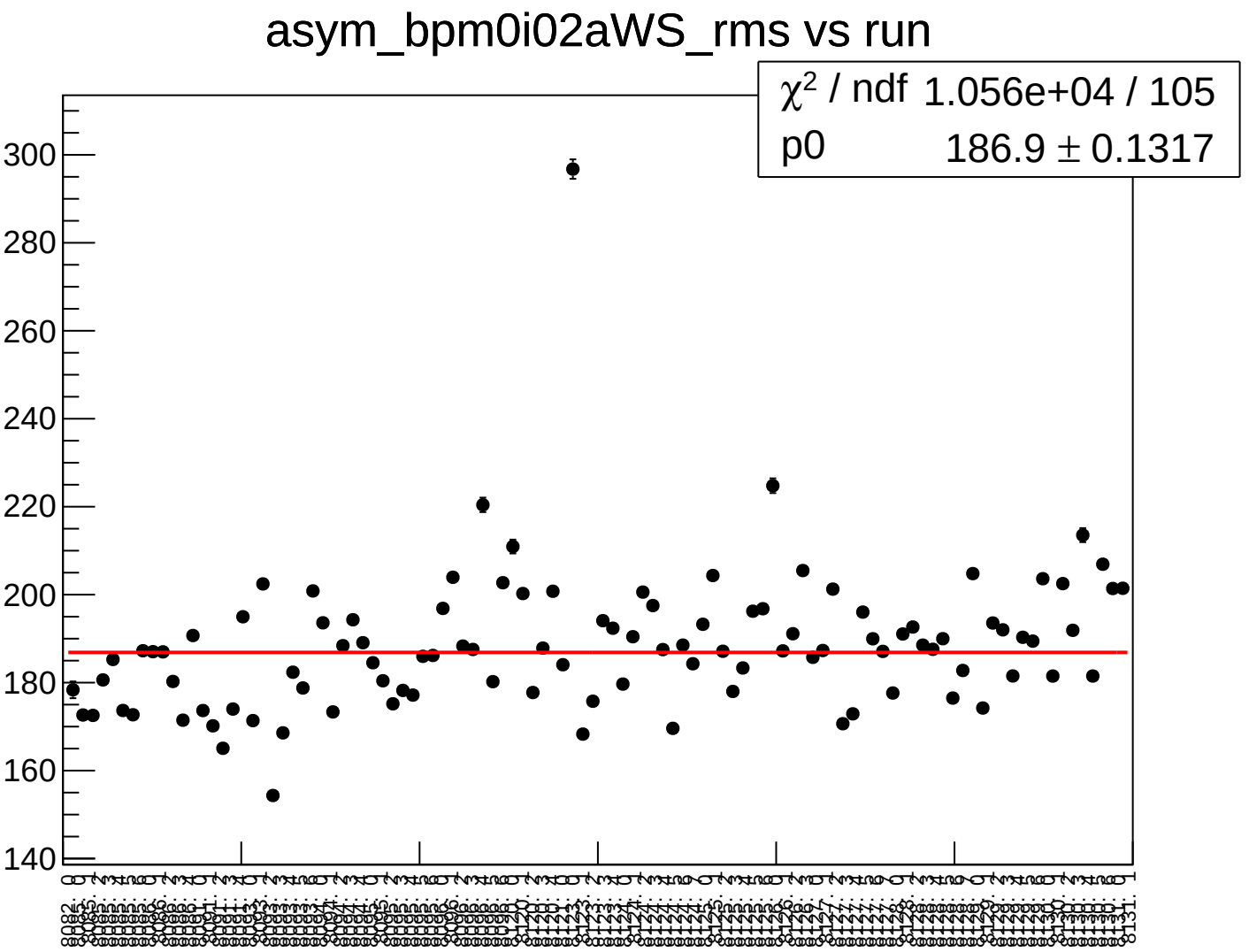

asym_bpm0r05WS_rms vs run
$\chi^2$ / ndf 1.954e+04 / 105
p0 409.2 ± 0.2891
550
500
450
400
350
300

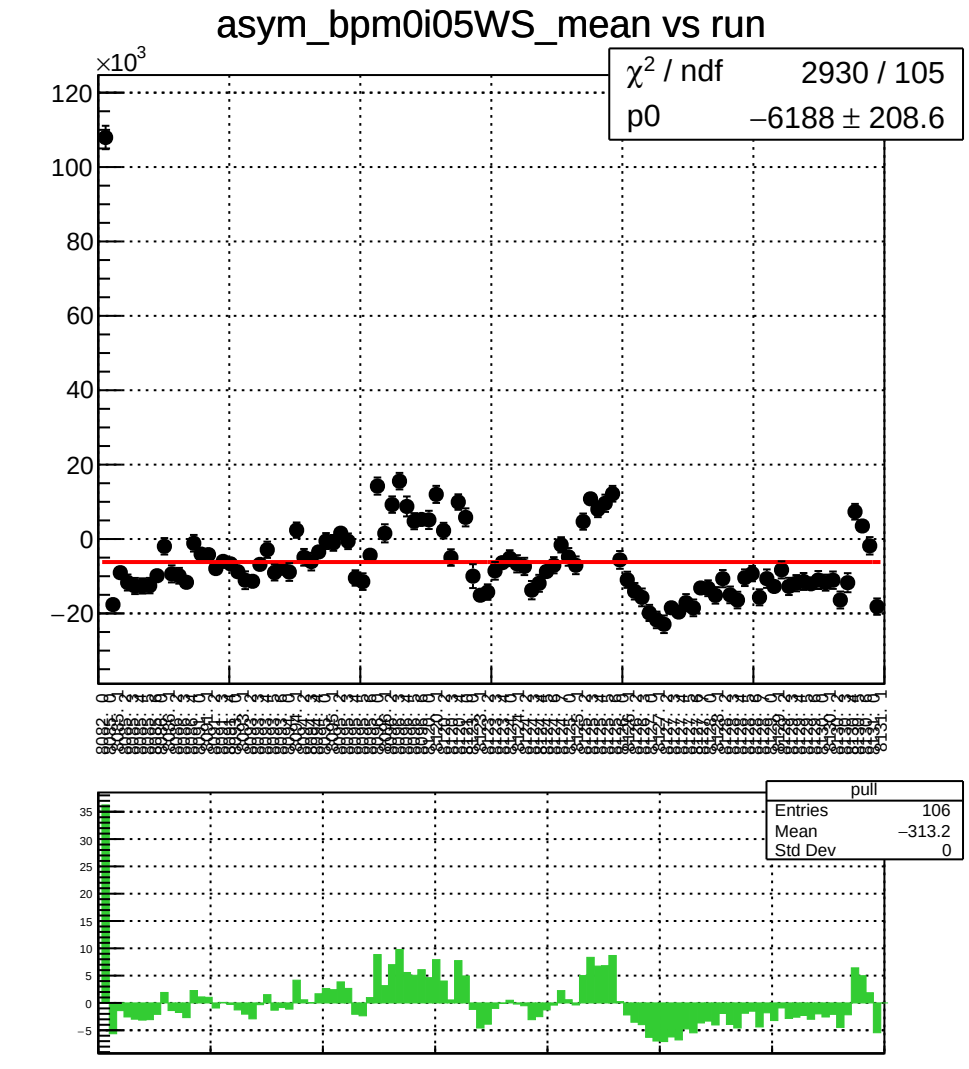

asym_bpm0i02WS_mean vs run
χ² / ndf 2331 / 105
p0 −1.045e+04 ± 200.5
80000
60000
40000
20000
0
−20000
pull
Entries 106
Mean −281
Std Dev 0
25
20
15
10
5
0
−5
pull1D
Entries 106
Mean −0.7247
Std Dev 3.102
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

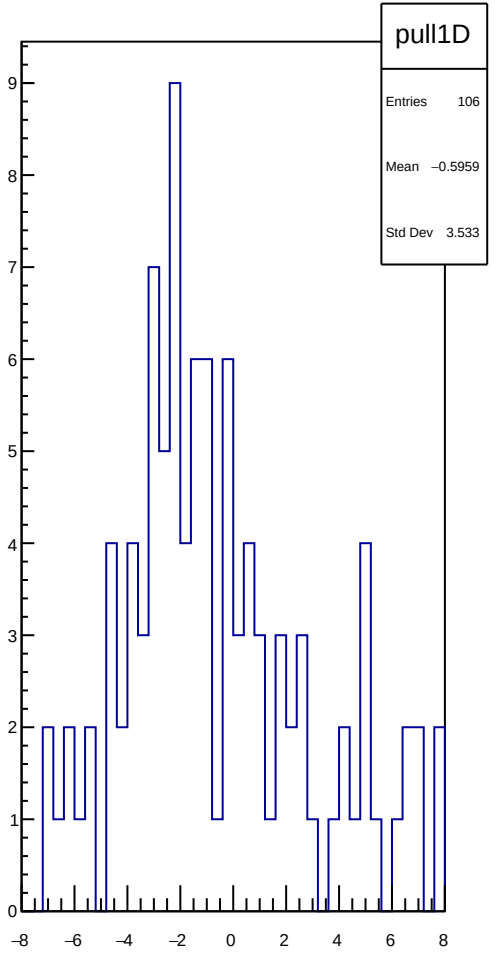

asym_bpm0i02WS_rms vs run
χ² / ndf 1.202e+04 / 105
p0 201.1 ± 0.1418
320
300
280
260
240
220
200
180
160

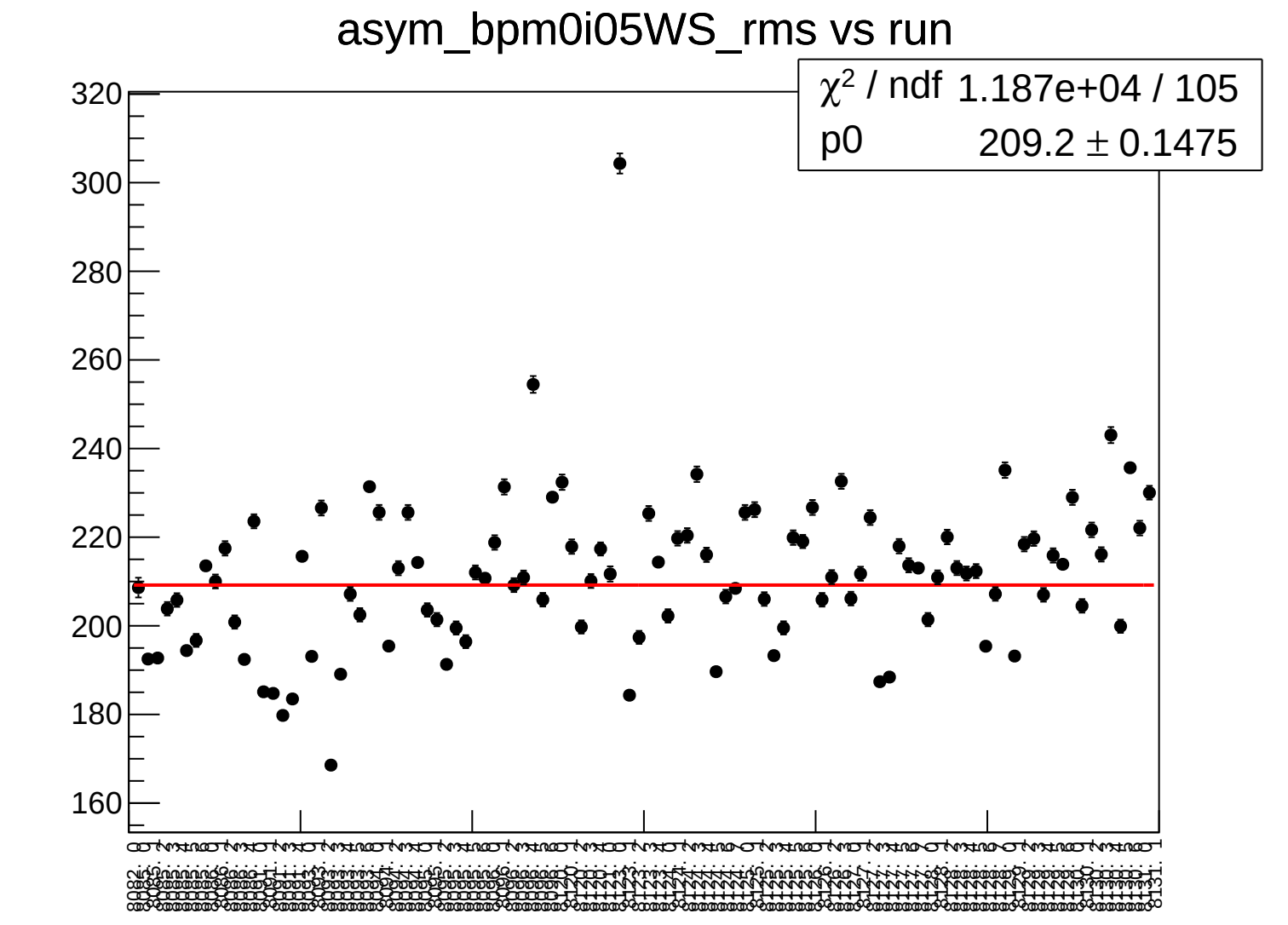

asym_bpm0i02aWS_mean vs run
×10^3
χ² / ndf 3474 / 105
p0 −1.091e+04 ± 186.3
pull
Entries 106
Mean −451.6
Std Dev 0

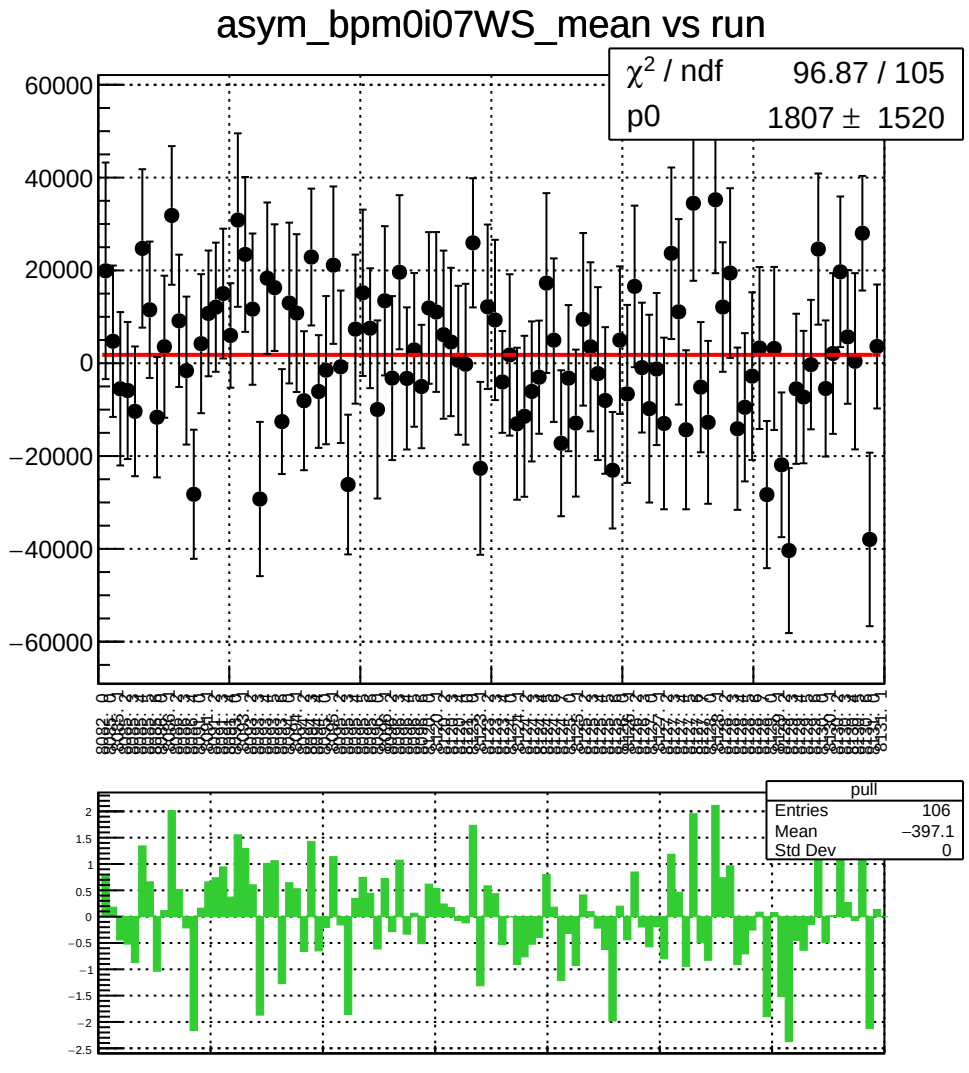

pull1D
Entries 106
Mean −1.052
Std Dev 3.454

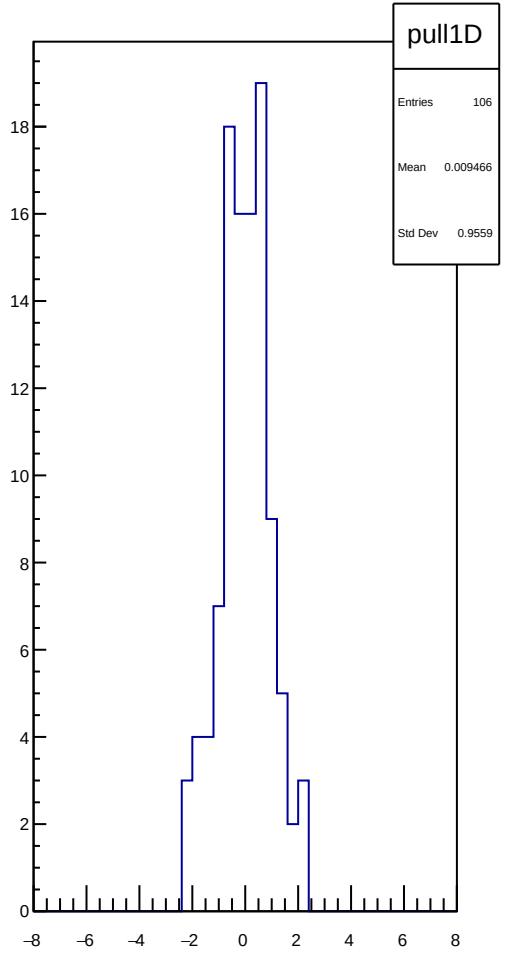

asym_bpm0i02aWS_rms vs run
$\chi^2$ / ndf 1.056e+04 / 105
p0 186.9 ± 0.1317
300
280
260
240
220
200
180
160
140

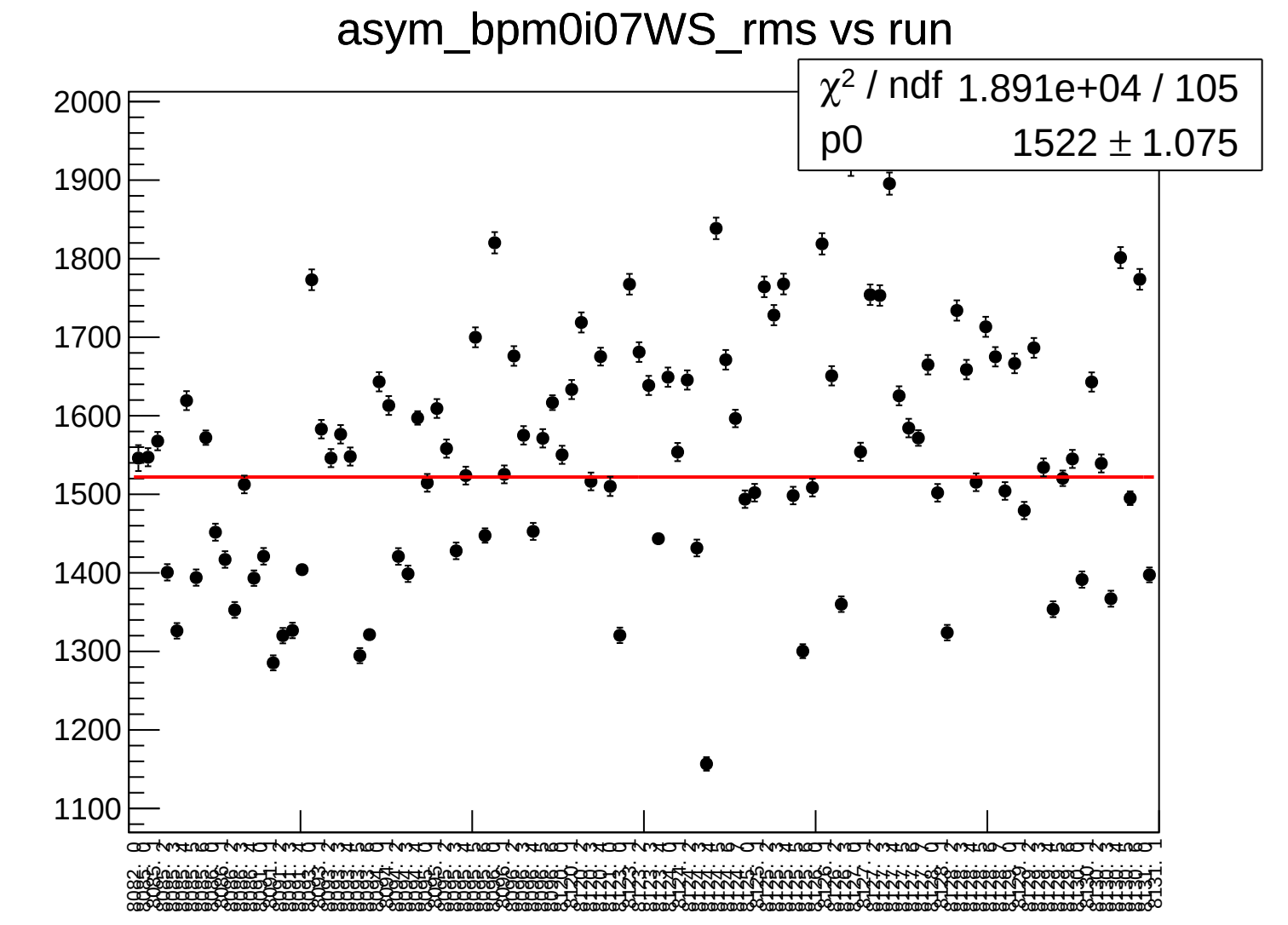

asym_bpm0i05WS_mean vs run
×10^3
χ^2 / ndf 2930 / 105
p0 −6188 ± 208.6
120
100
80
60
40
20
0
−20
pull
Entries 106
Mean −313.2
Std Dev 0
35
30
25
20
15
10
5
0
−5

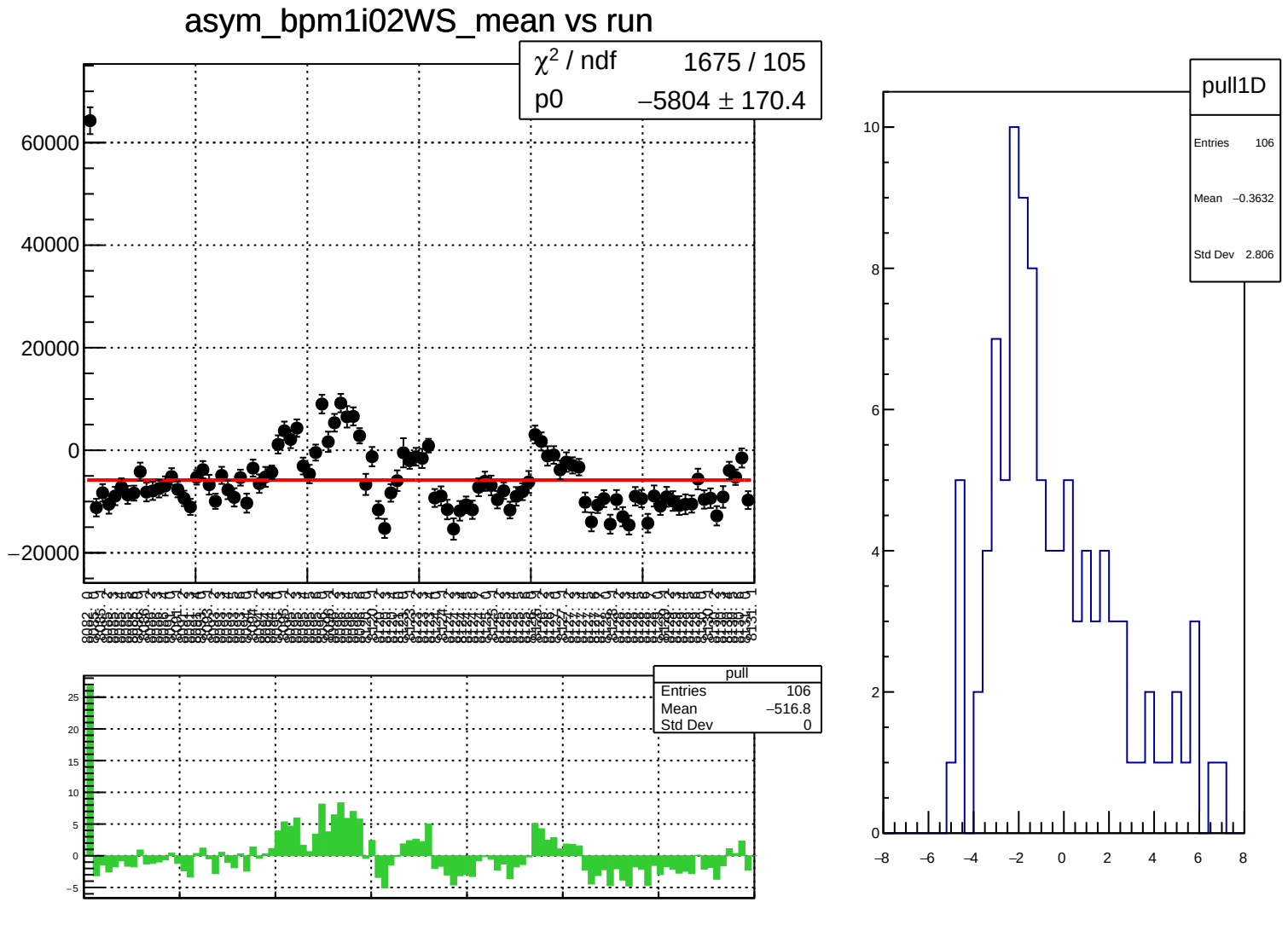

pull1D
Entries 106
Mean −0.5959
Std Dev 3.533
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

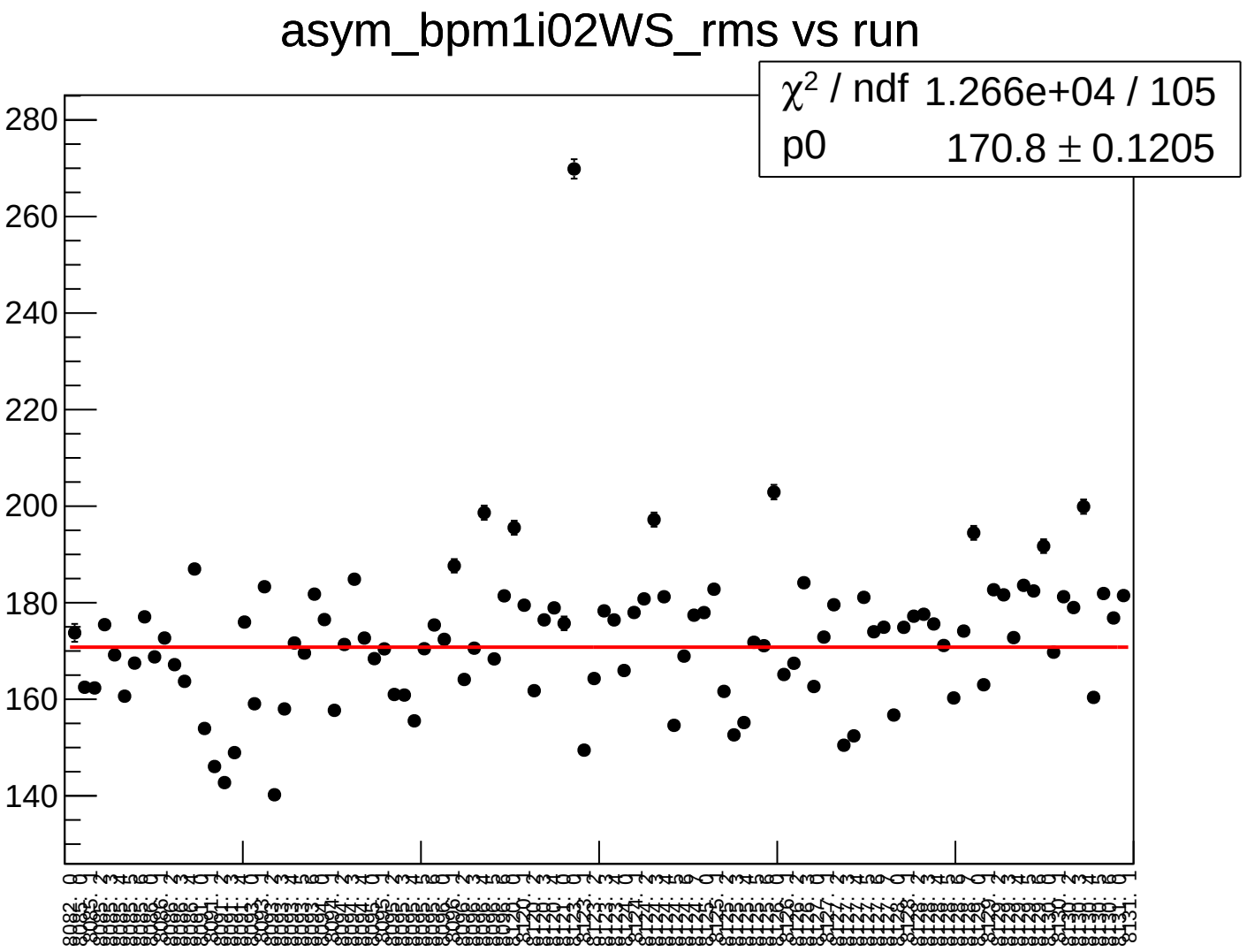

asym_bpm0i05WS_rms vs run
$\chi^2$ / ndf 1.187e+04 / 105
p0 209.2 ± 0.1475
320
300
280
260
240
220
200
180
160

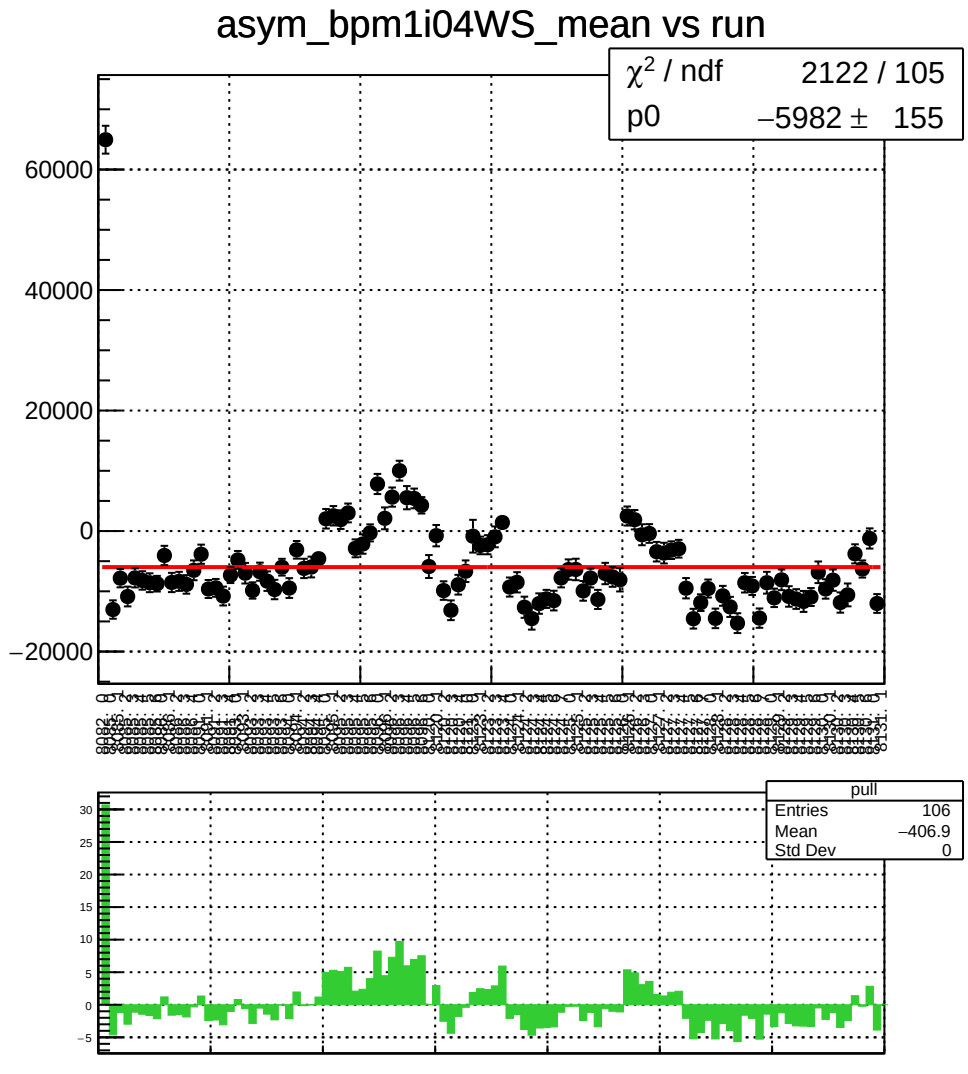

asym_bpm0i07WS_mean vs run
χ² / ndf 96.87 / 105
p0 1807 ± 1520
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean −397.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

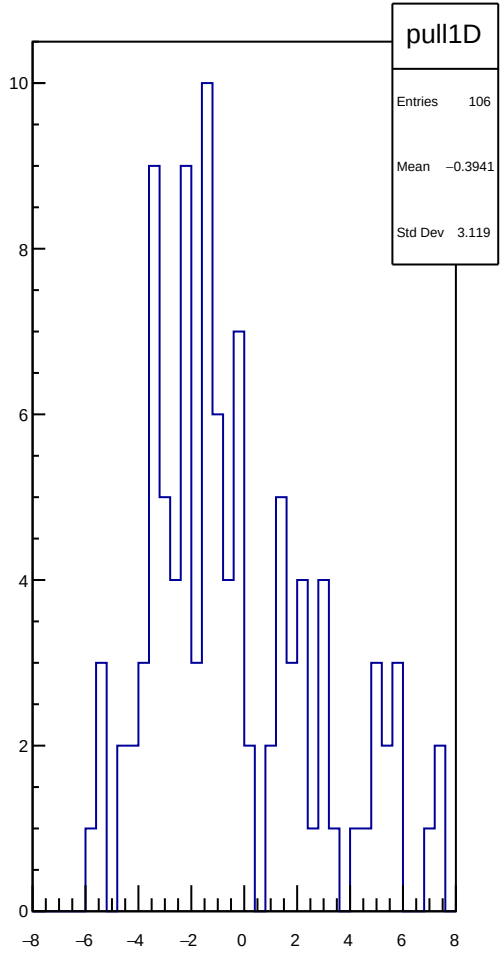

pull1D
Entries 106
Mean 0.009466
Std Dev 0.9559
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

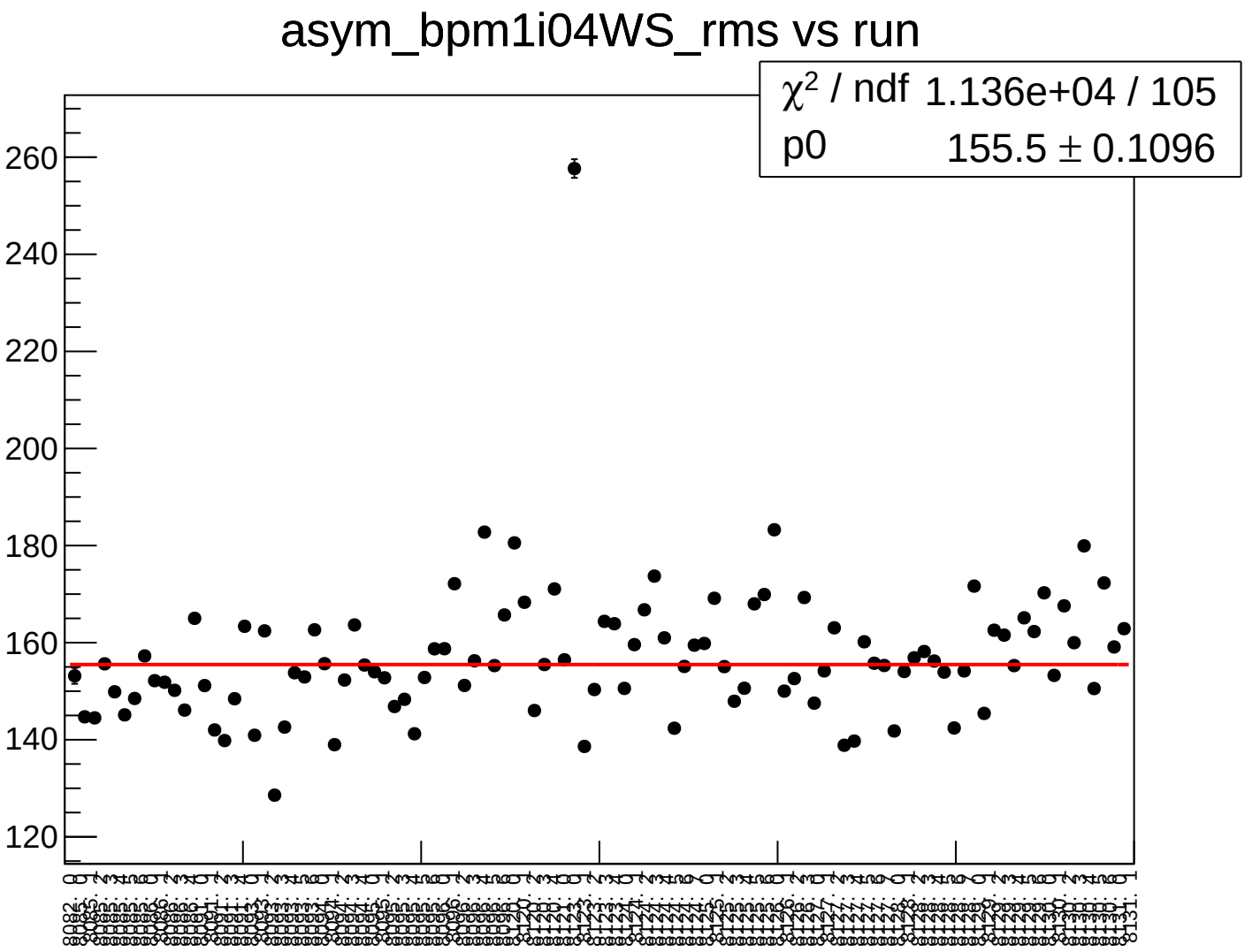

asym_bpm0i07WS_rms vs run
$\chi^2$ / ndf 1.891e+04 / 105
p0 1522 ± 1.075
2000
1900
1800
1700
1600
1500
1400
1300
1200
1100

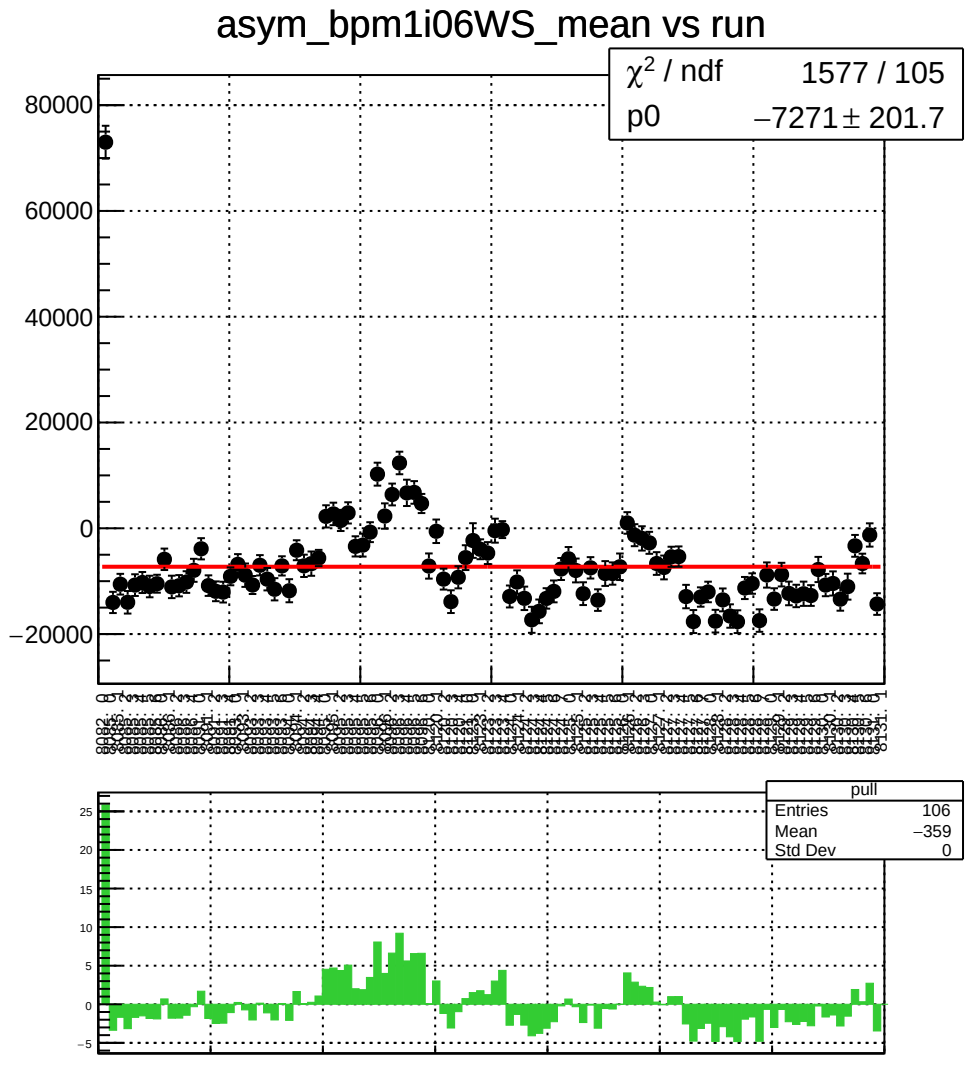

asym_bpm1i02WS_mean vs run
χ² / ndf 1675 / 105
p0 −5804 ± 170.4
60000
40000
20000
0
−20000
pull
Entries 106
Mean −516.8
Std Dev 0
25
20
15
10
5
0
−5
pull1D
Entries 106
Mean −0.3632
Std Dev 2.806
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

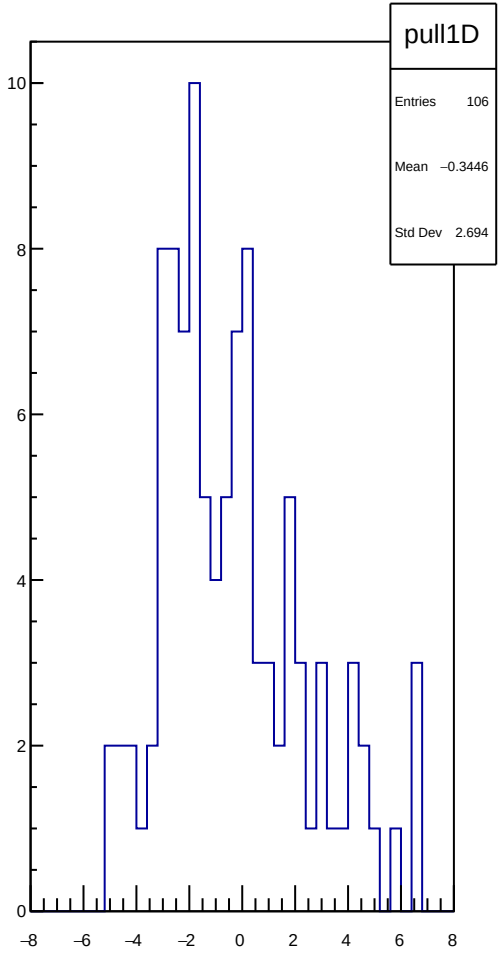

asym_bpm1i02WS_rms vs run
$\chi^2$ / ndf 1.266e+04 / 105
p0 170.8 ± 0.1205
280
260
240
220
200
180
160
140

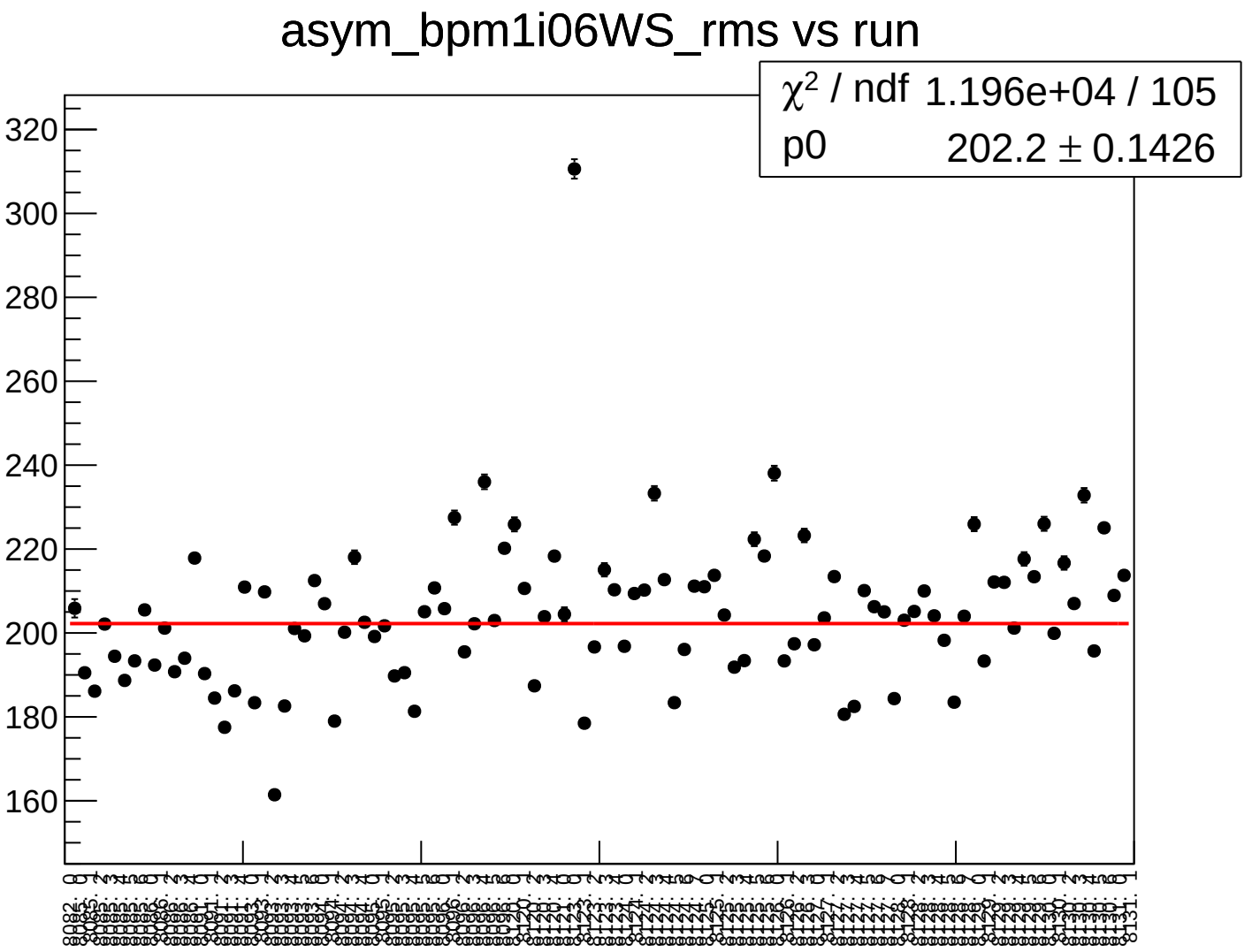

asym_bpm1i04WS_mean vs run
χ² / ndf 2122 / 105
p0 −5982 ± 155
60000
40000
20000
0
−20000
pull
Entries 106
Mean −406.9
Std Dev 0
30
25
20
15
10
5
0
−5

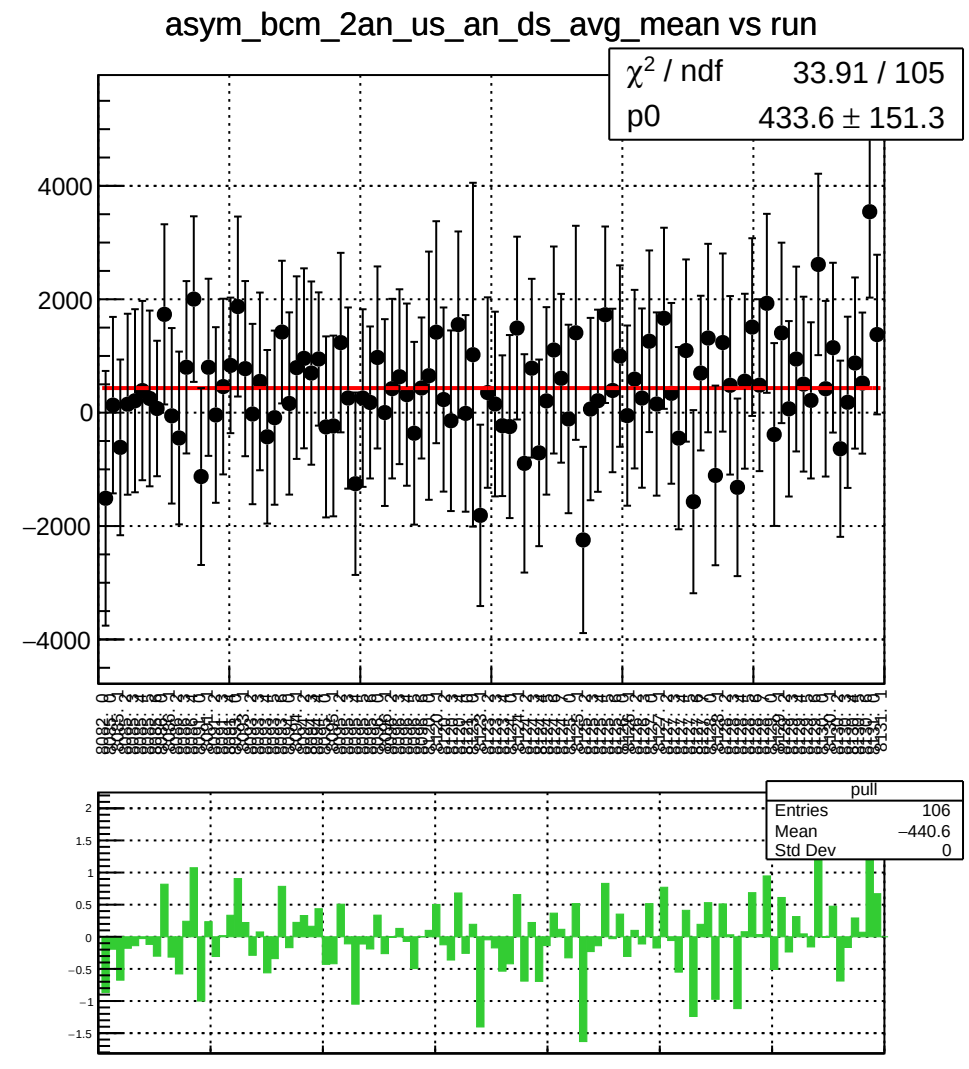

pull1D
Entries 106
Mean −0.3941
Std Dev 3.119
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

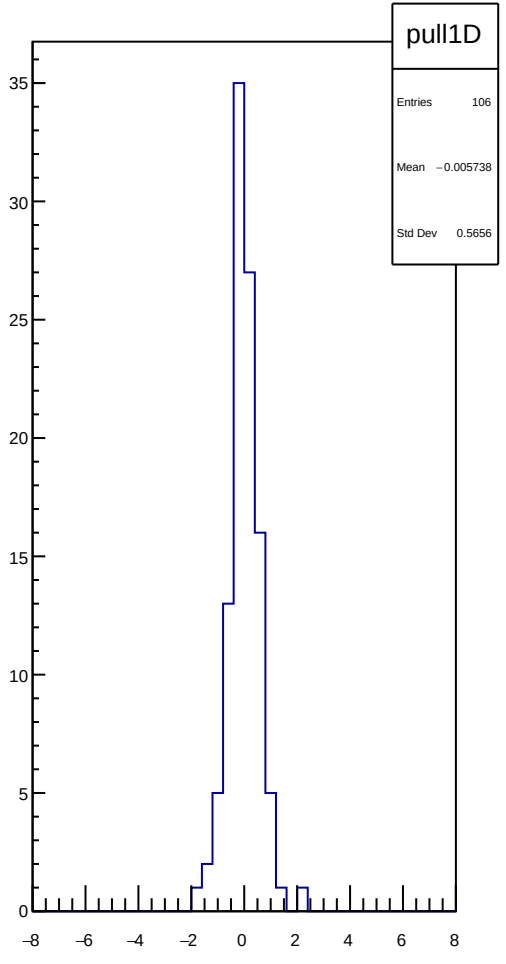

asym_bpm1i04WS_rms vs run
$\chi^2$ / ndf 1.136e+04 / 105
p0 155.5 ± 0.1096
260
240
220
200
180
160
140
120

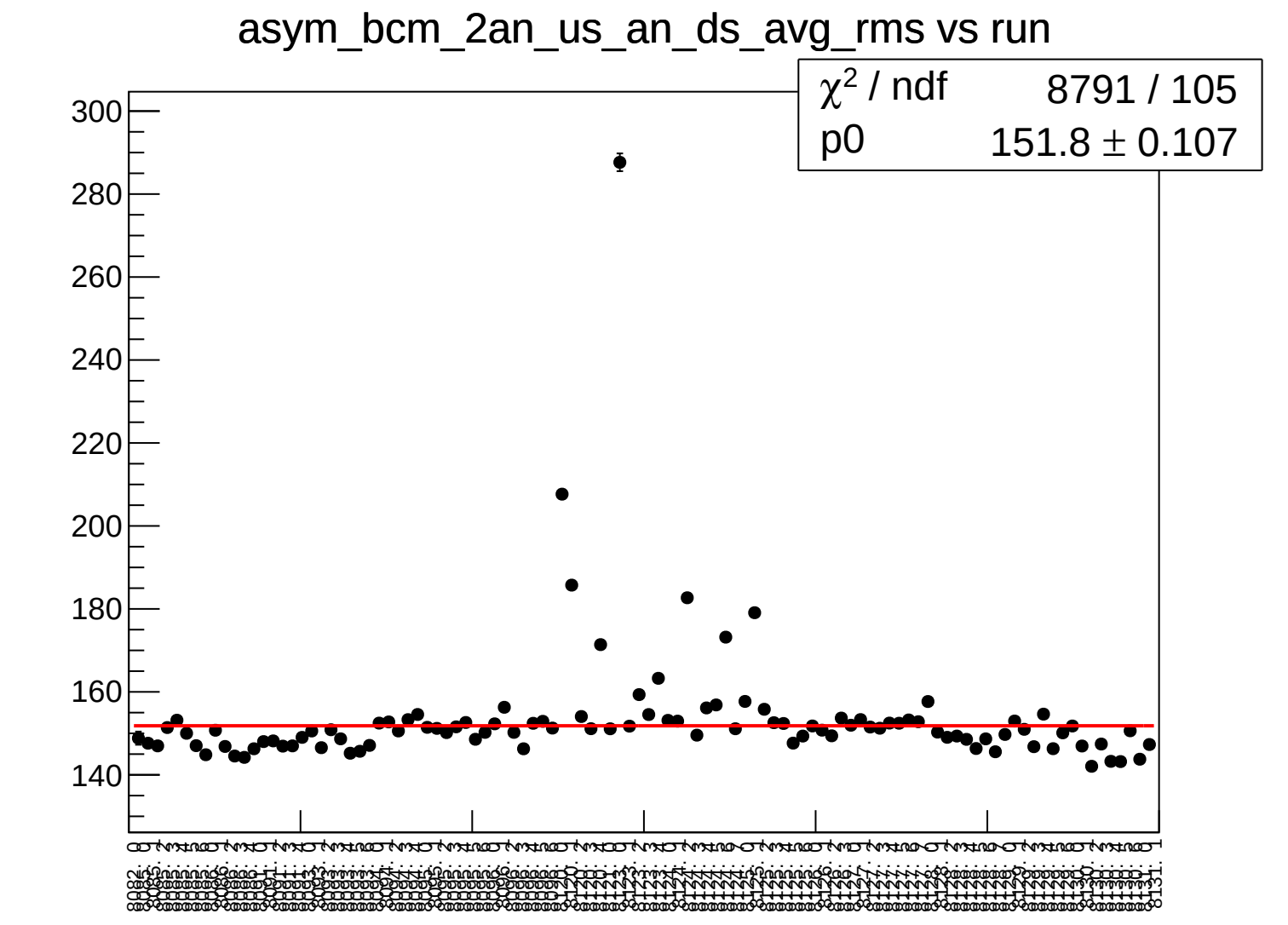

asym_bpm1i06WS_mean vs run
χ² / ndf 1577 / 105
p0 −7271 ± 201.7
80000
60000
40000
20000
0
−20000
pull
Entries 106
Mean −359
Std Dev 0
25
20
15
10
5
0
−5

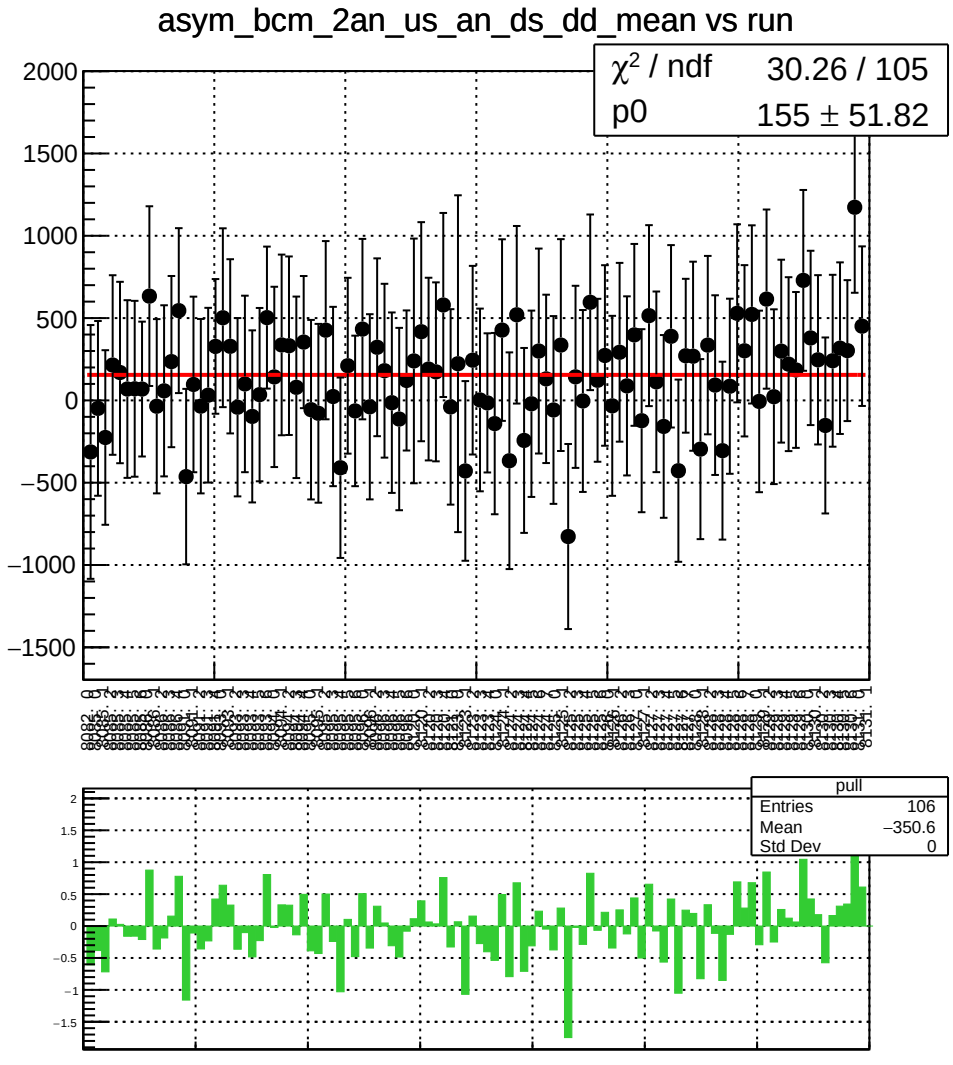

pull1D
Entries 106
Mean −0.3446
Std Dev 2.694
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

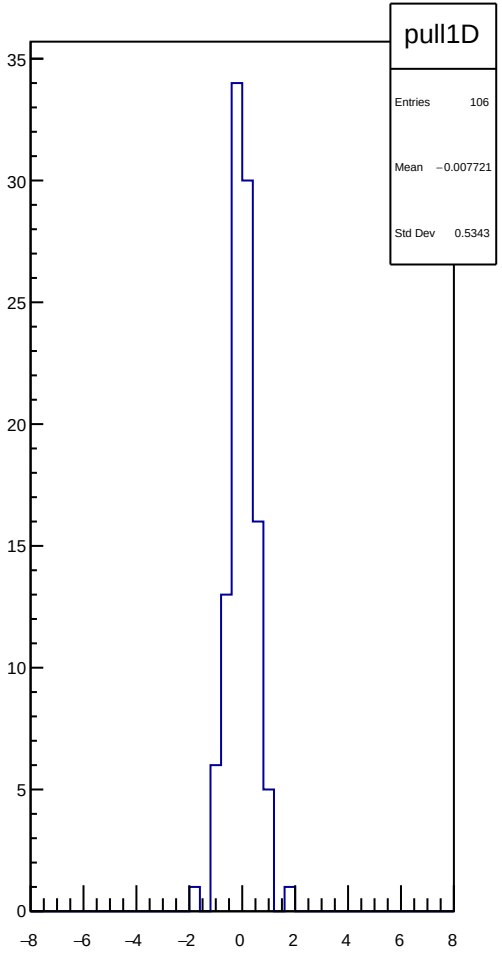

asym_bpm1i06WS_rms vs run
$\chi^2$ / ndf 1.196e+04 / 105
p0 202.2 ± 0.1426
320
300
280
260
240
220
200
180
160

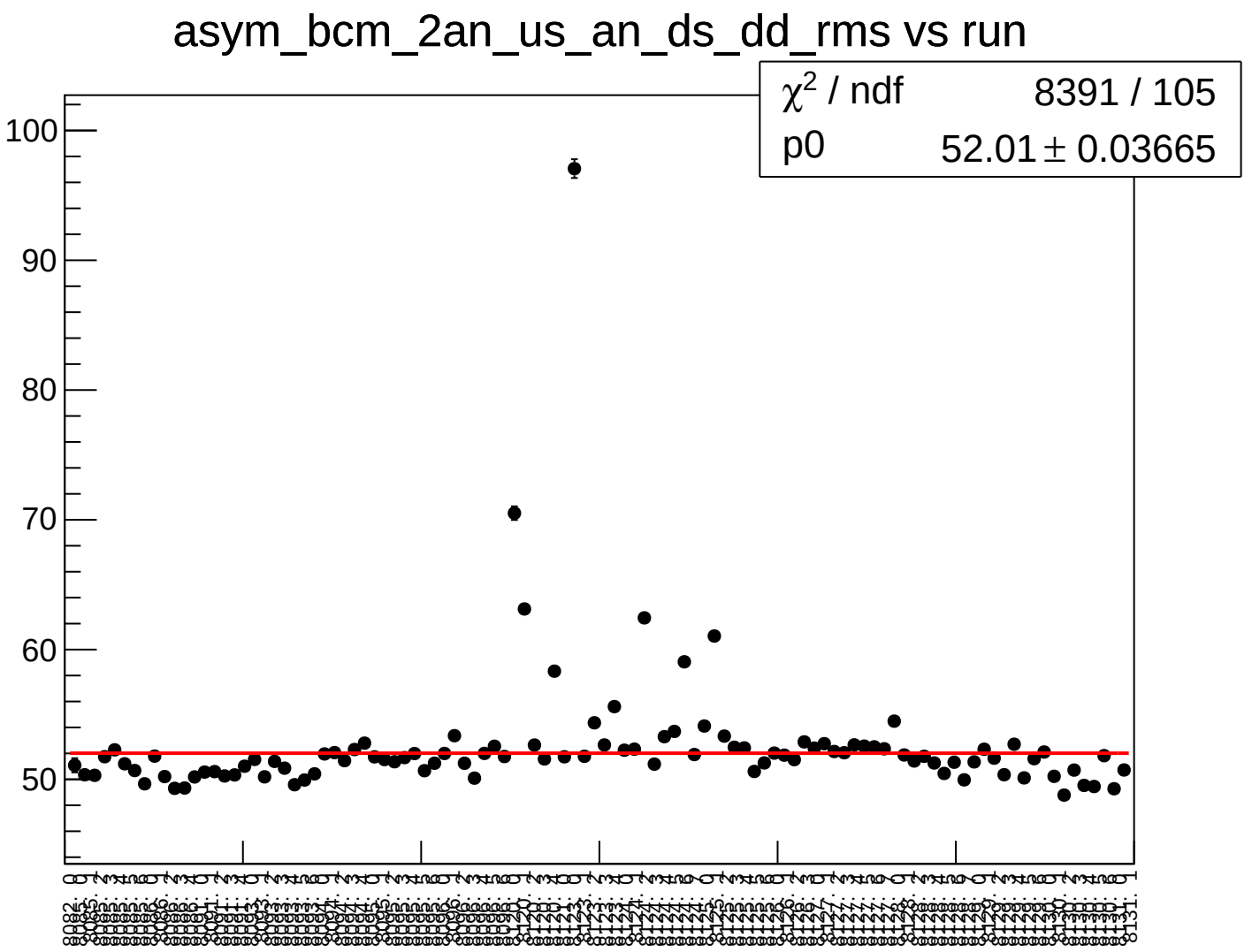

asym_bcm_2an_us_an_ds_avg_mean vs run
χ² / ndf 33.91 / 105
p0 433.6 ± 151.3
4000
2000
0
−2000
−4000
pull
Entries 106
Mean −440.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

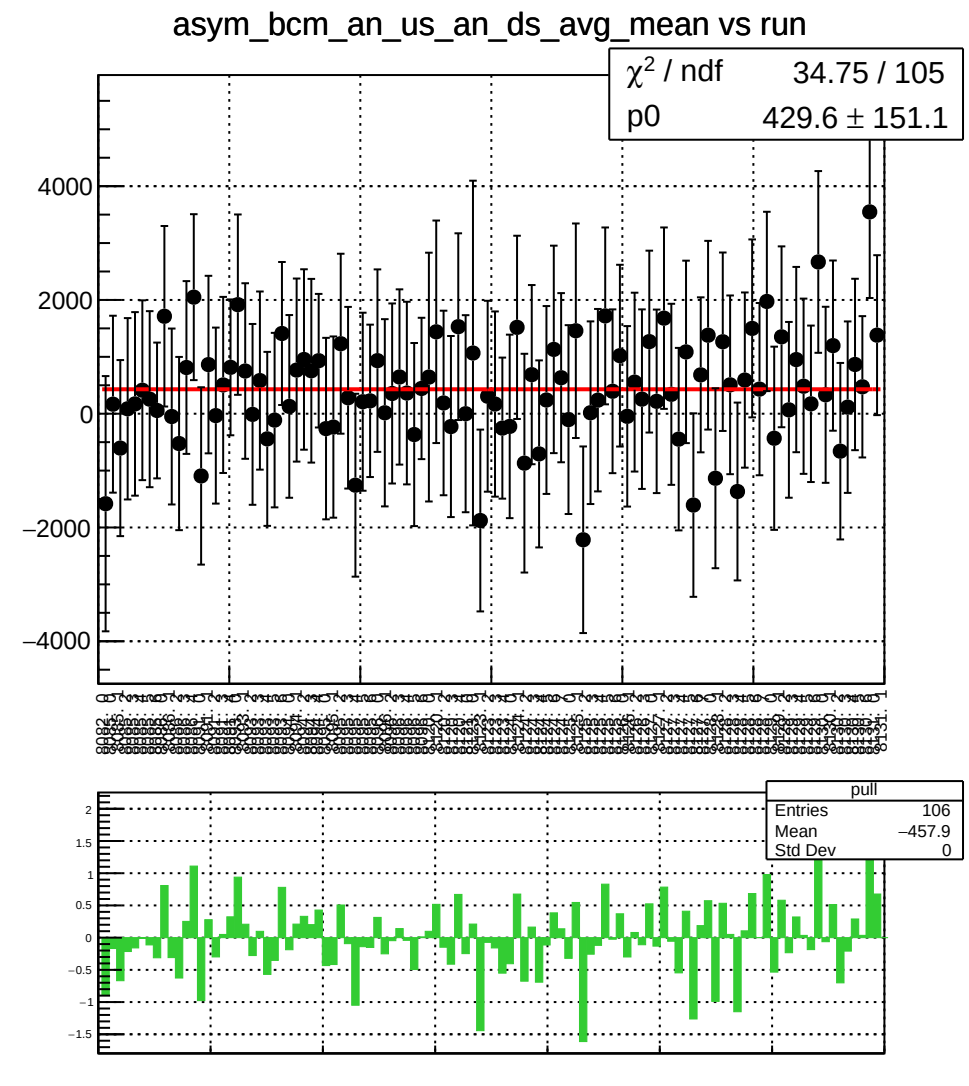

pull1D
Entries 106
Mean −0.005738
Std Dev 0.5656
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

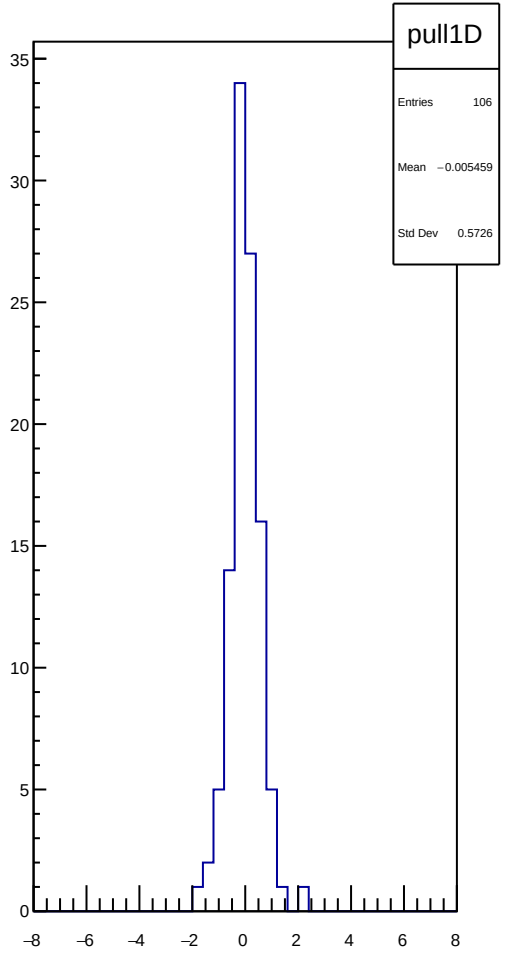

asym_bcm_2an_us_an_ds_avg_rms vs run
χ² / ndf 8791 / 105
p0 151.8 ± 0.107
300
280
260
240
220
200
180
160
140


asym_bcm_2an_us_an_ds_dd_mean vs run
χ² / ndf 30.26 / 105
p0 155 ± 51.82
pull
Entries 106
Mean −350.6
Std Dev 0


pull1D
Entries 106
Mean −0.007721
Std Dev 0.5343


asym_bcm_2an_us_an_ds_dd_rms vs run
$\chi^2$ / ndf 8391 / 105
p0 52.01 ± 0.03665
100
90
80
70
60
50


asym_bcm_an_us_an_ds_avg_mean vs run
χ² / ndf 34.75 / 105
p0 429.6 ± 151.1
4000
2000
0
−2000
−4000
pull
Entries 106
Mean −457.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 106
Mean −0.005459
Std Dev 0.5726
35
30
25
20
15
10
5
0
−8
−6
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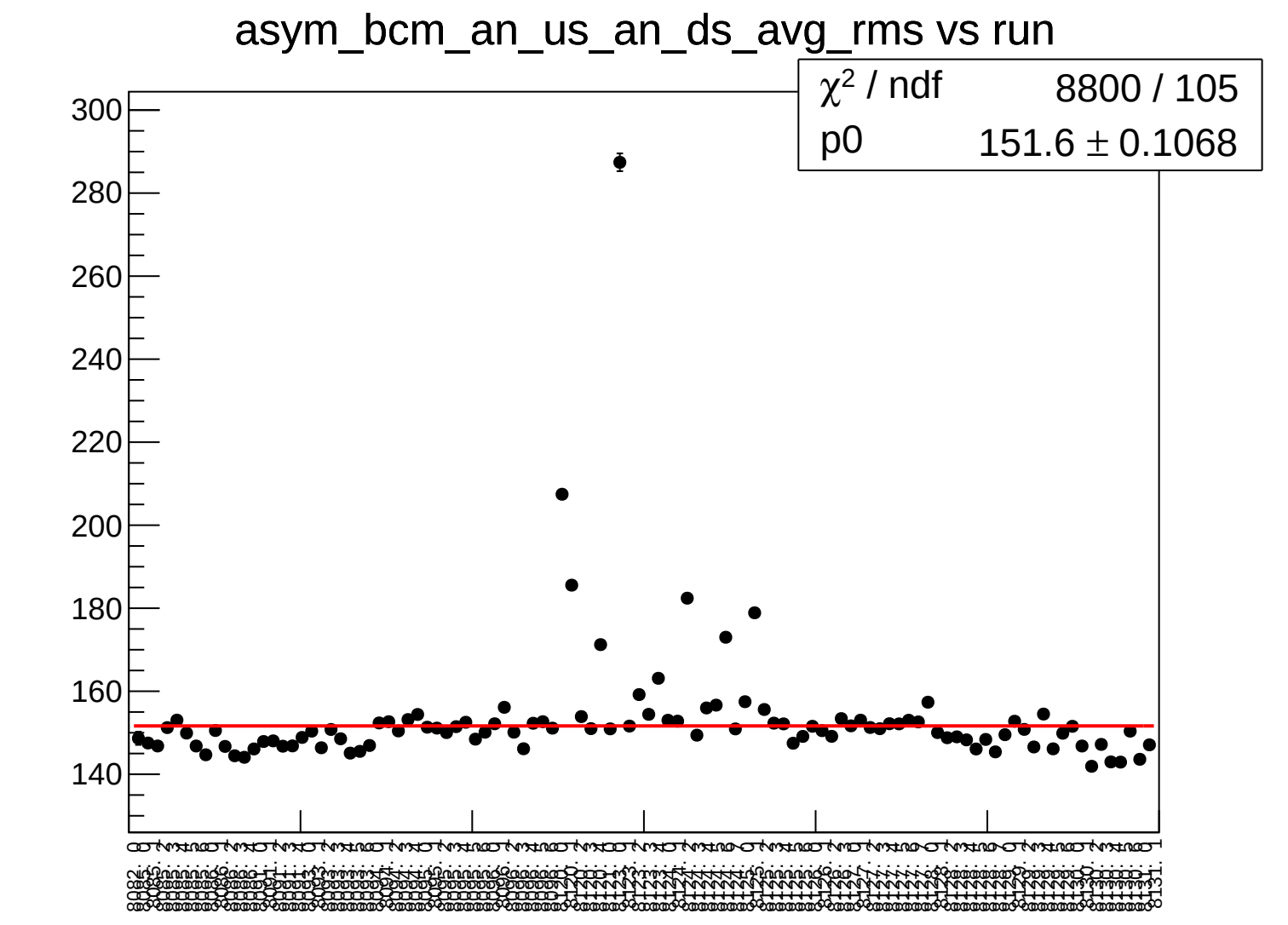
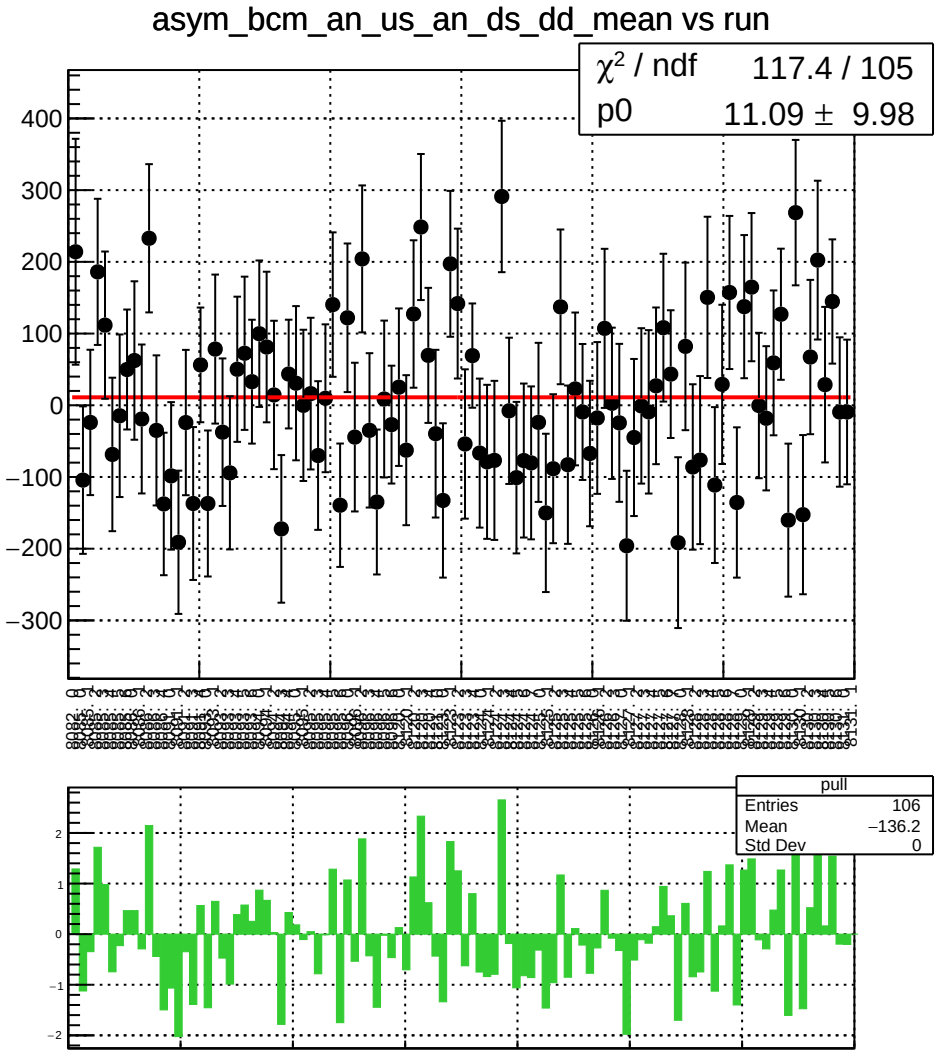
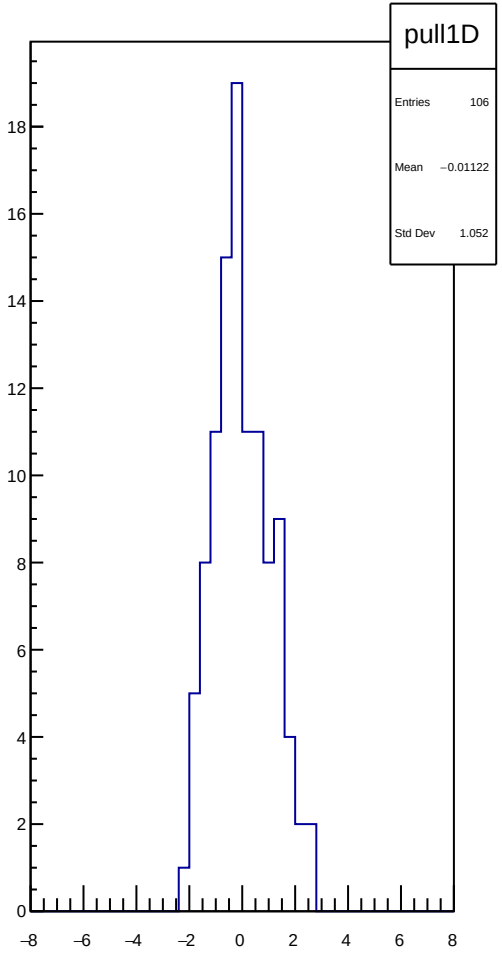
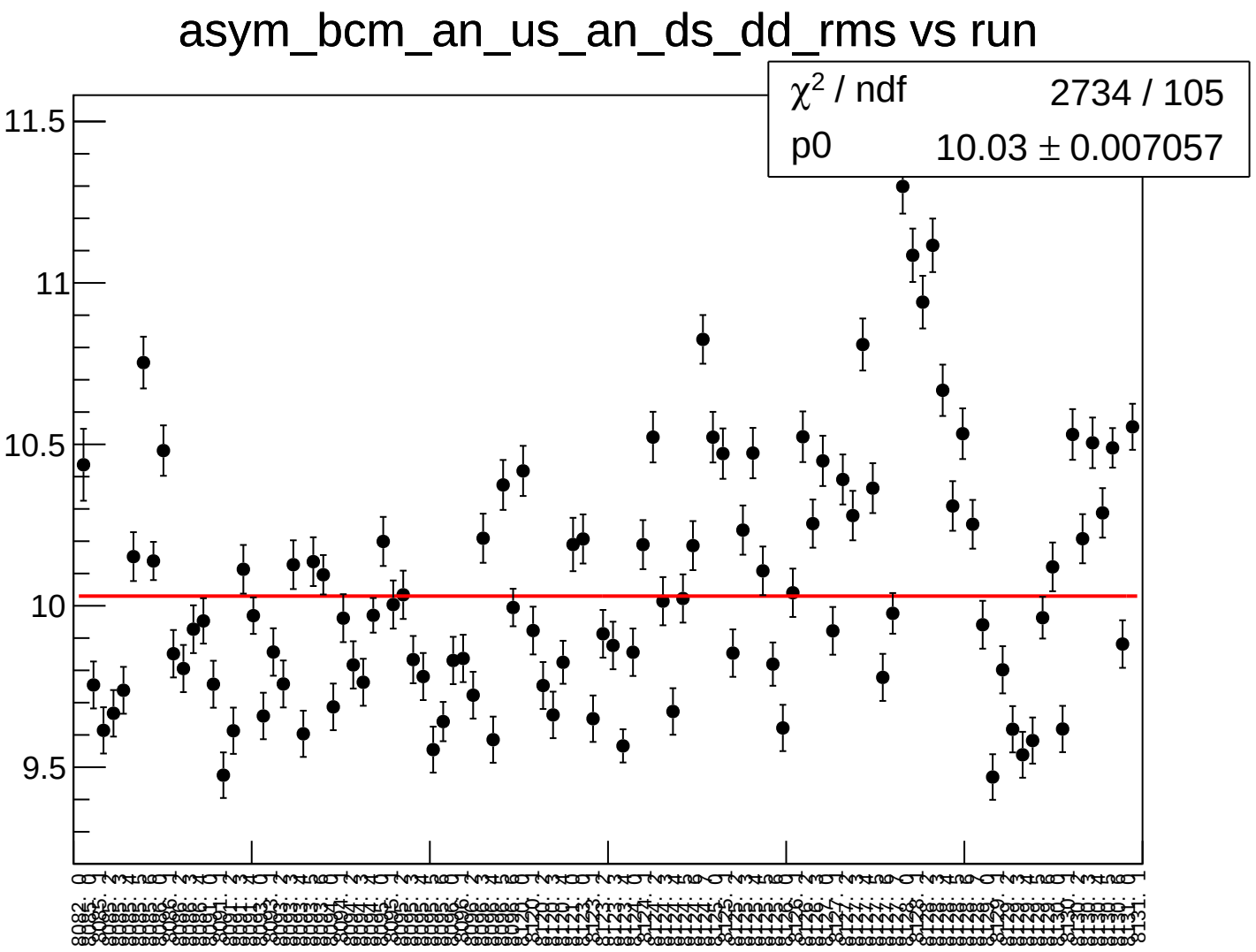
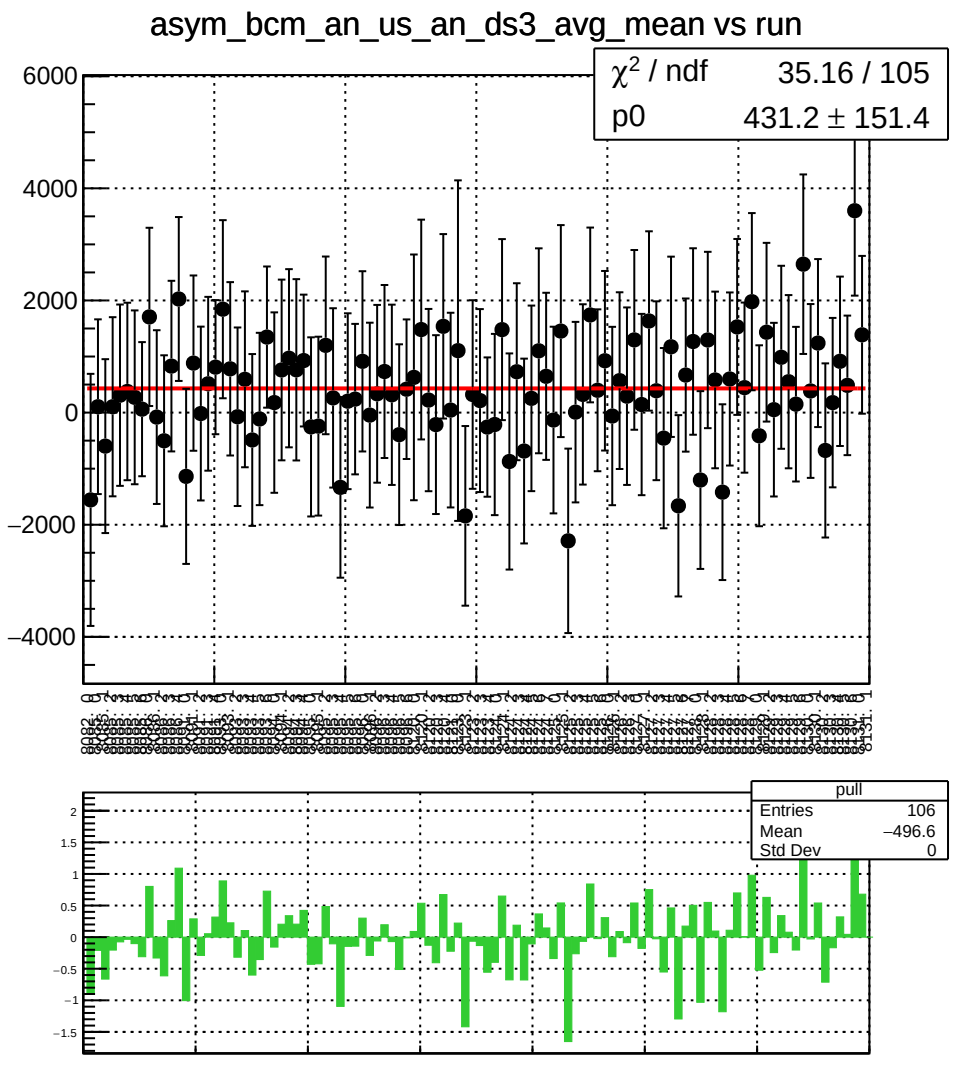
0
2
4
6
8

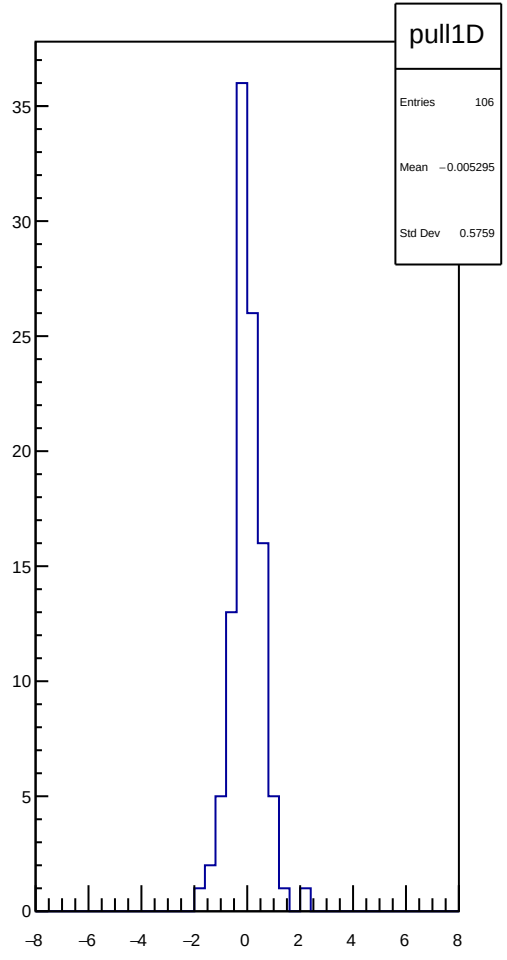

asym_bcm_an_us_an_ds_avg_rms vs run
χ² / ndf 8800 / 105
p0 151.6 ± 0.1068
300
280
260
240
220
200
180
160
140


asym_bcm_an_us_an_ds_dd_mean vs run
χ² / ndf 117.4 / 105
p0 11.09 ± 9.98
pull
Entries 106
Mean −136.2
Std Dev 0


pull1D
Entries 106
Mean −0.01122
Std Dev 1.052


asym_bcm_an_us_an_ds_dd_rms vs run
χ² / ndf 2734 / 105
p0 10.03 ± 0.007057
11.5
11
10.5
10
9.5


asym_bcm_an_us_an_ds3_avg_mean vs run
χ² / ndf 35.16 / 105
p0 431.2 ± 151.4
6000
4000
2000
0
−2000
−4000
pull
Entries 106
Mean −496.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 106
Mean −0.005295
Std Dev 0.5759
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25
20
15
10
5
0
−8
−6
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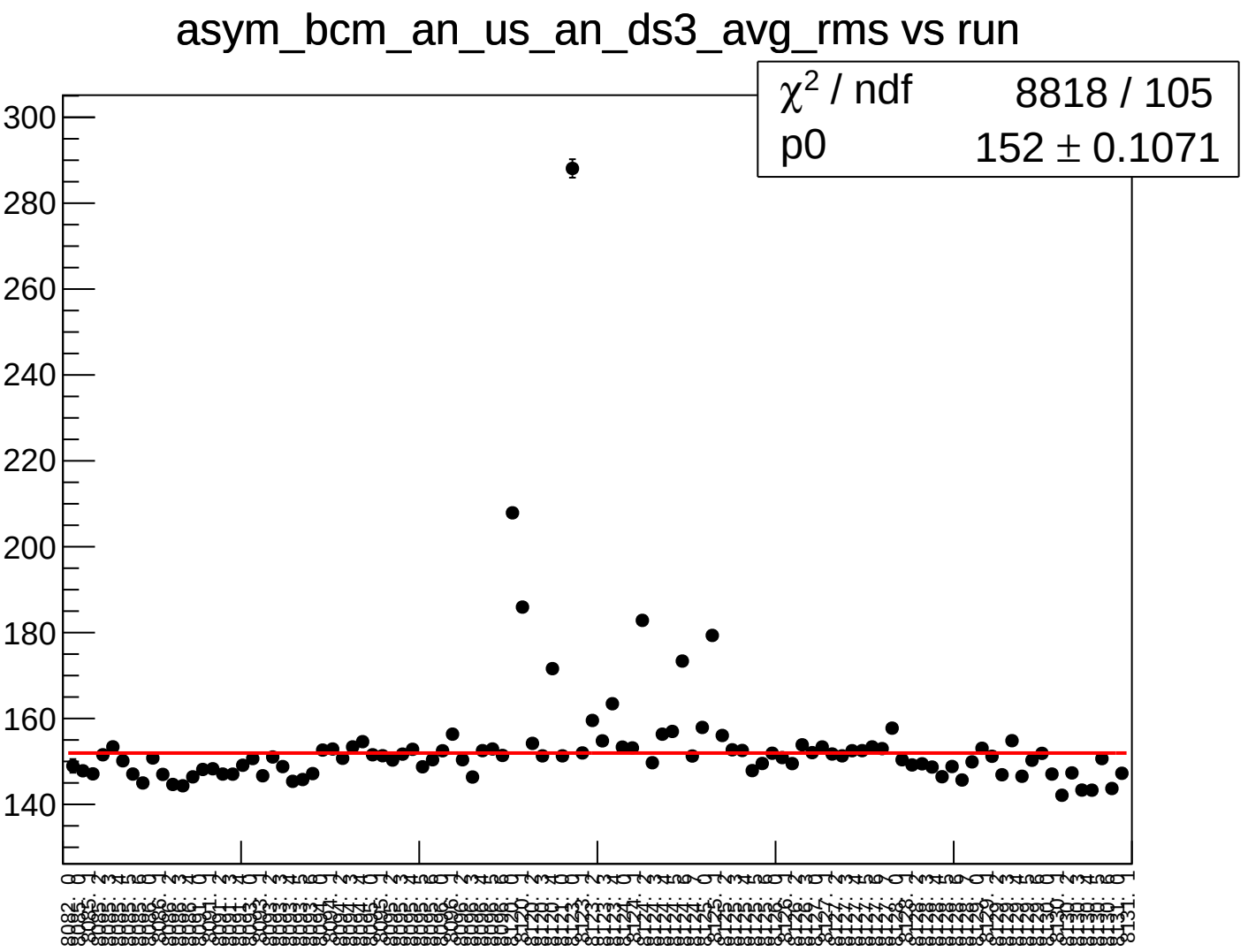
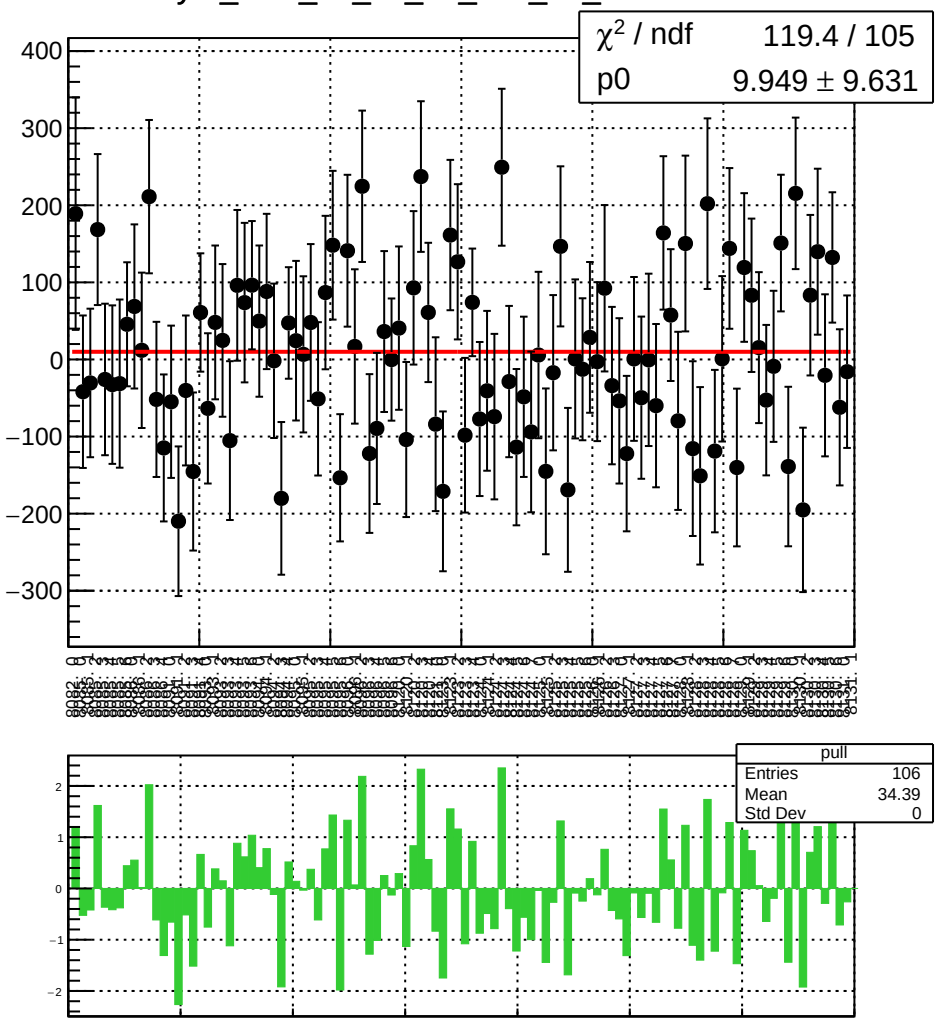
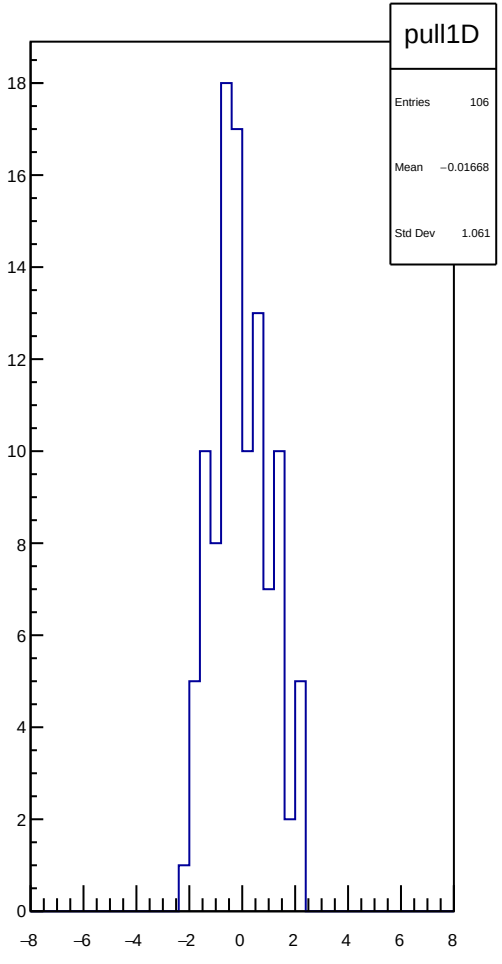
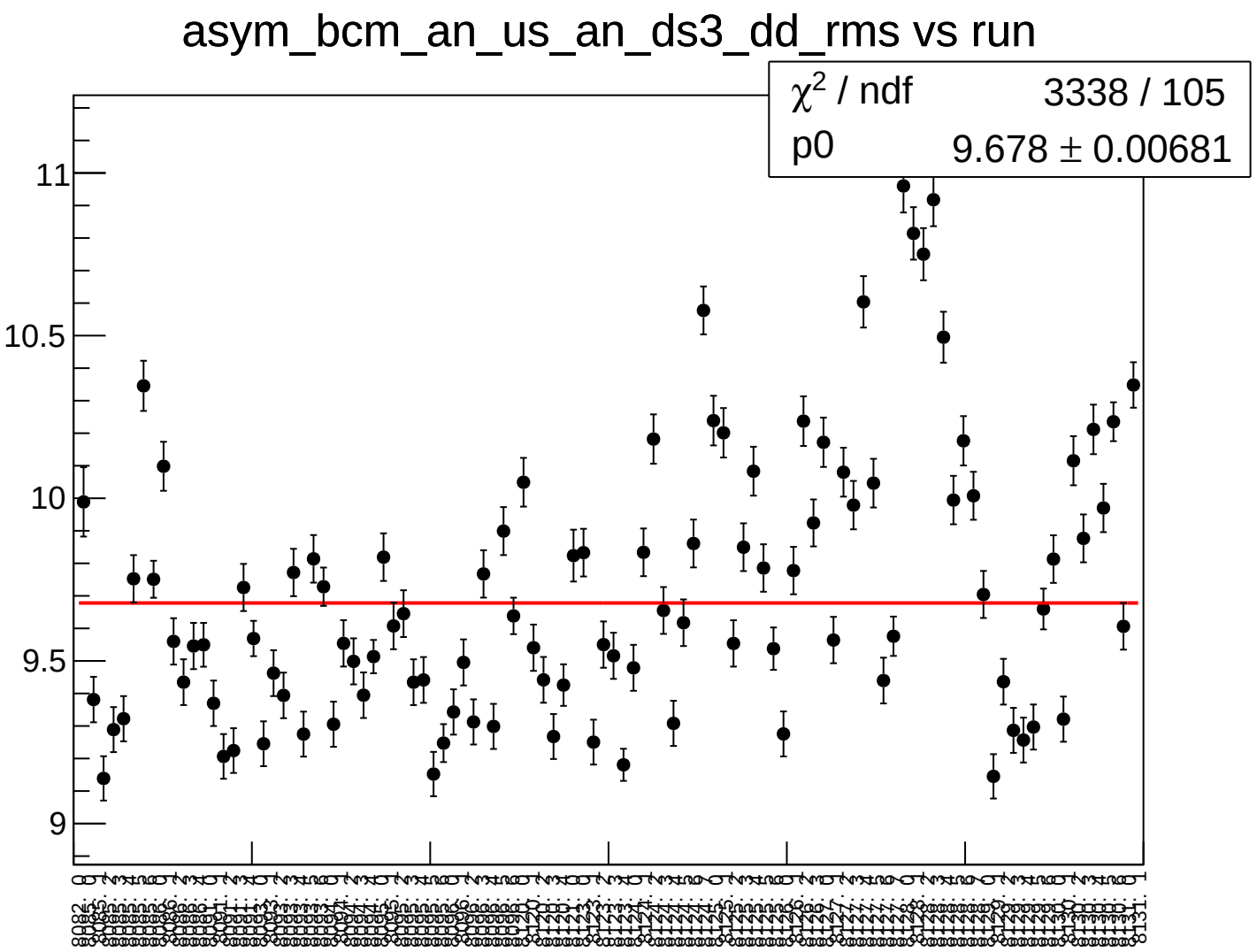
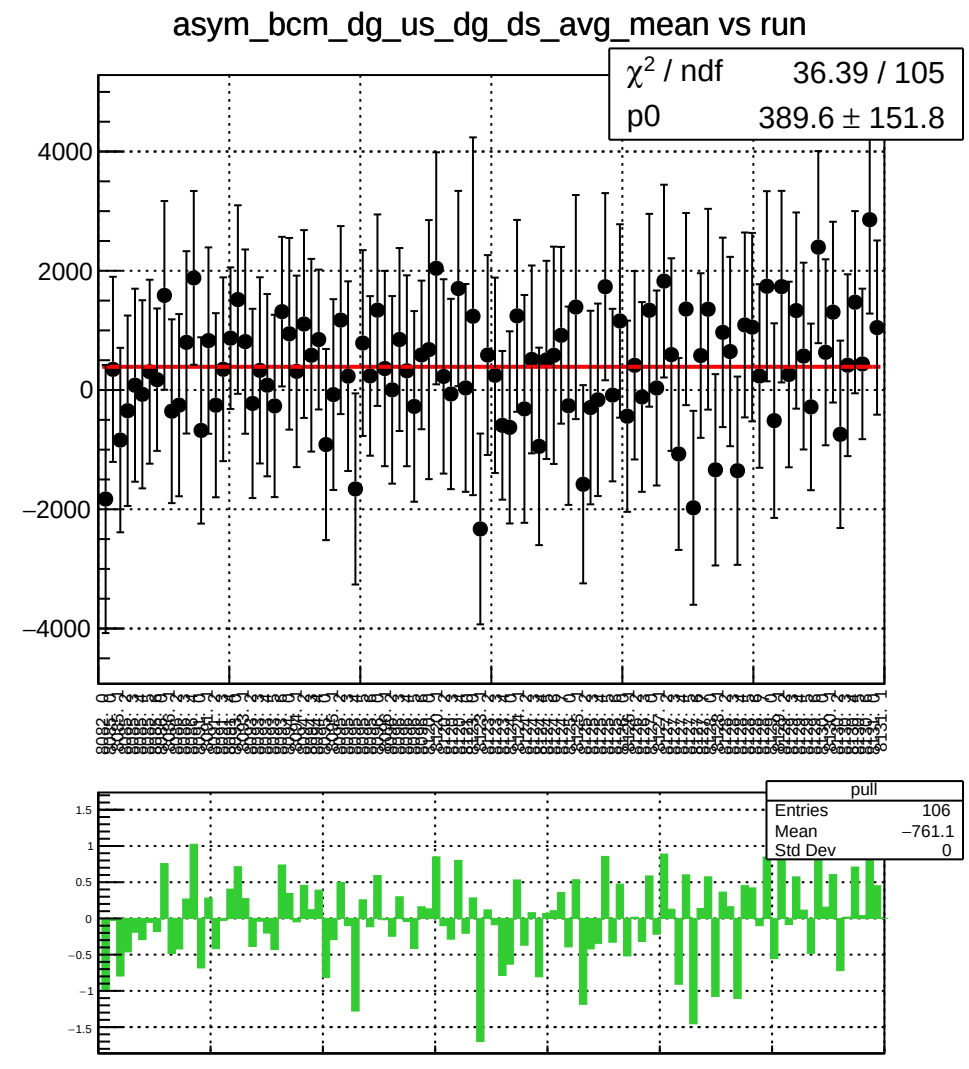
0
2
4
6
8

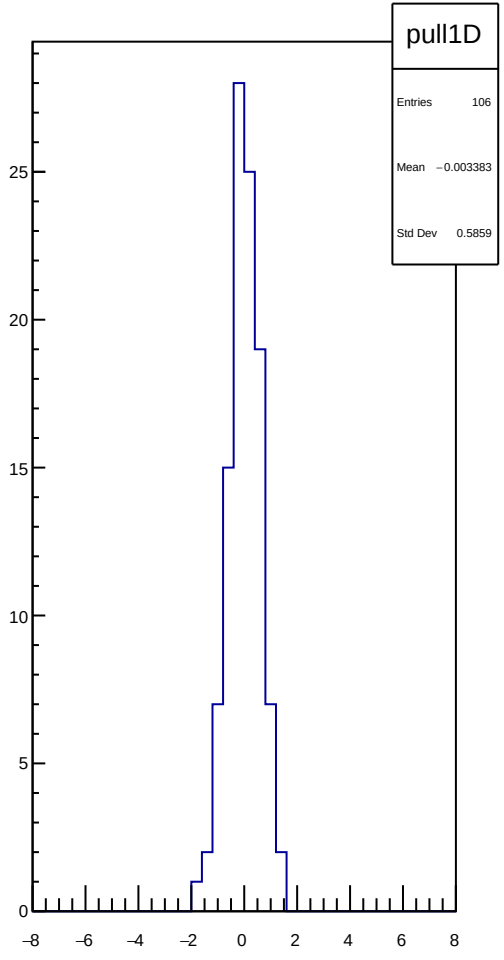

asym_bcm_an_us_an_ds3_avg_rms vs run
$\chi^2$ / ndf 8818 / 105
p0 152 ± 0.1071
300
280
260
240
220
200
180
160
140

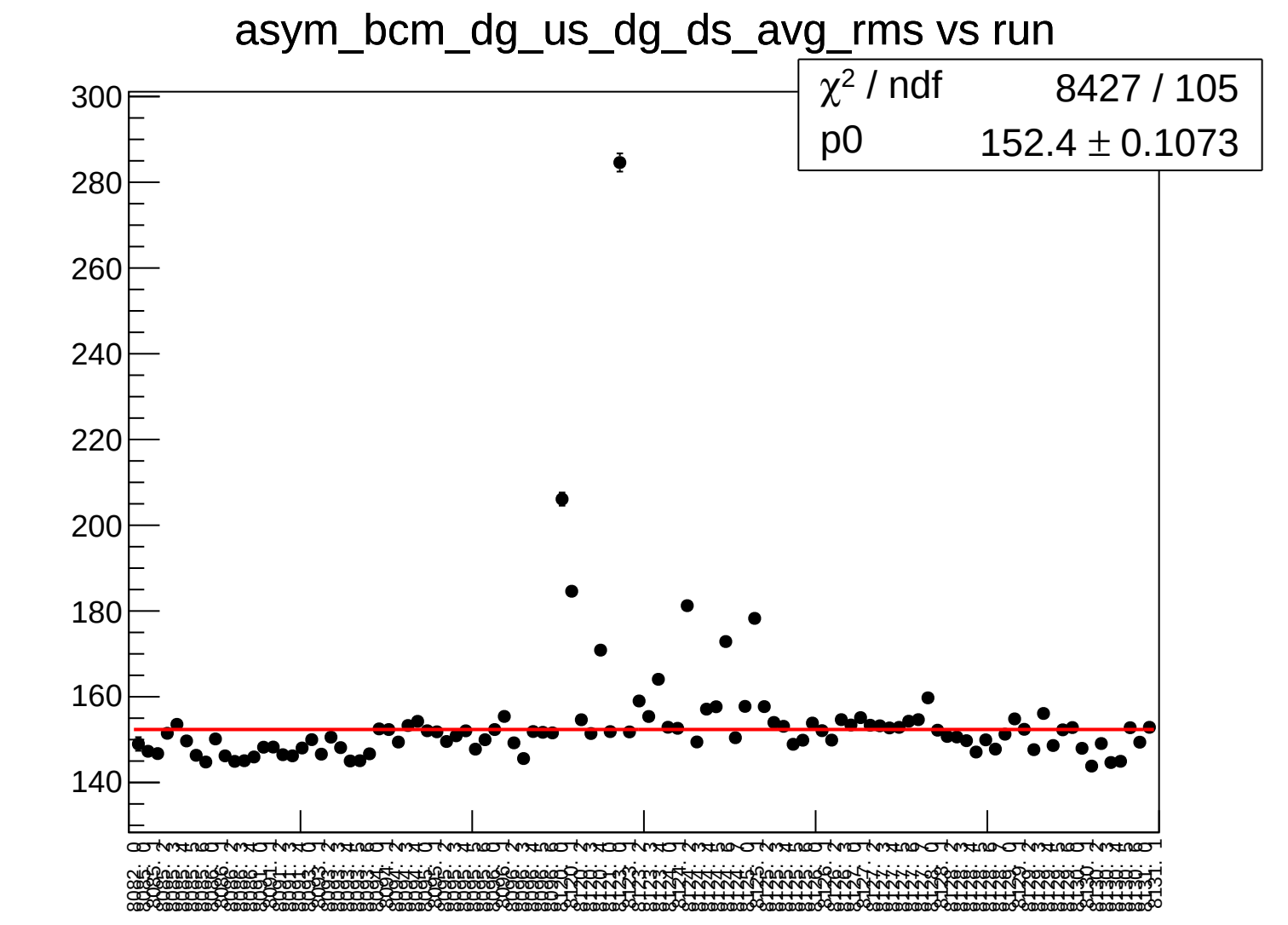

asym_bcm_an_us_an_ds3_dd_mean vs run
χ² / ndf 119.4 / 105
p0 9.949 ± 9.631
pull
Entries 106
Mean 34.39
Std Dev 0

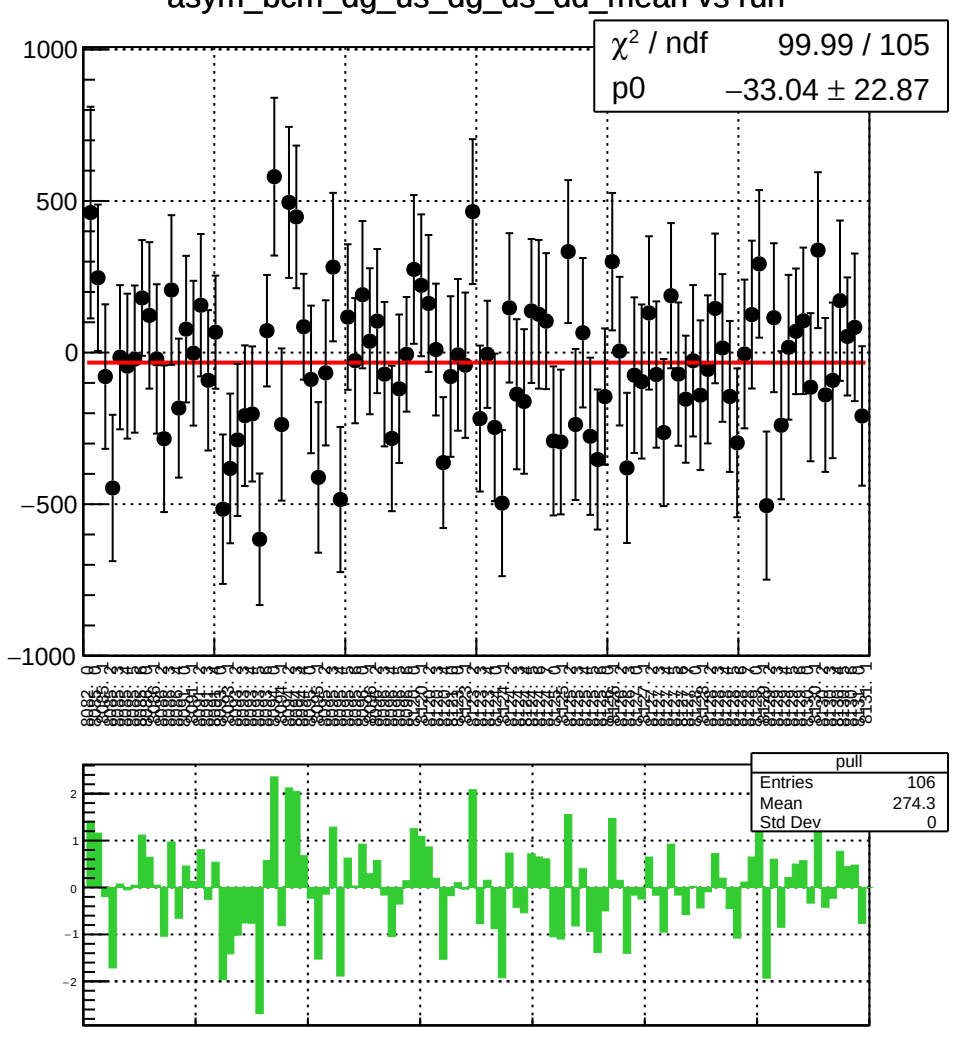

pull1D
Entries 106
Mean −0.01668
Std Dev 1.061

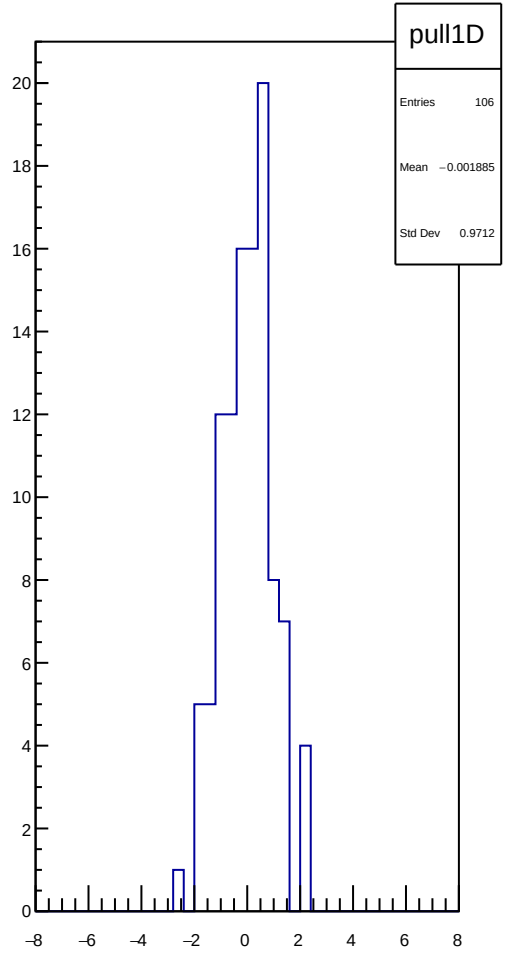

asym_bcm_an_us_an_ds3_dd_rms vs run
χ² / ndf 3338 / 105
p0 9.678 ± 0.00681
11
10.5
10
9.5
9

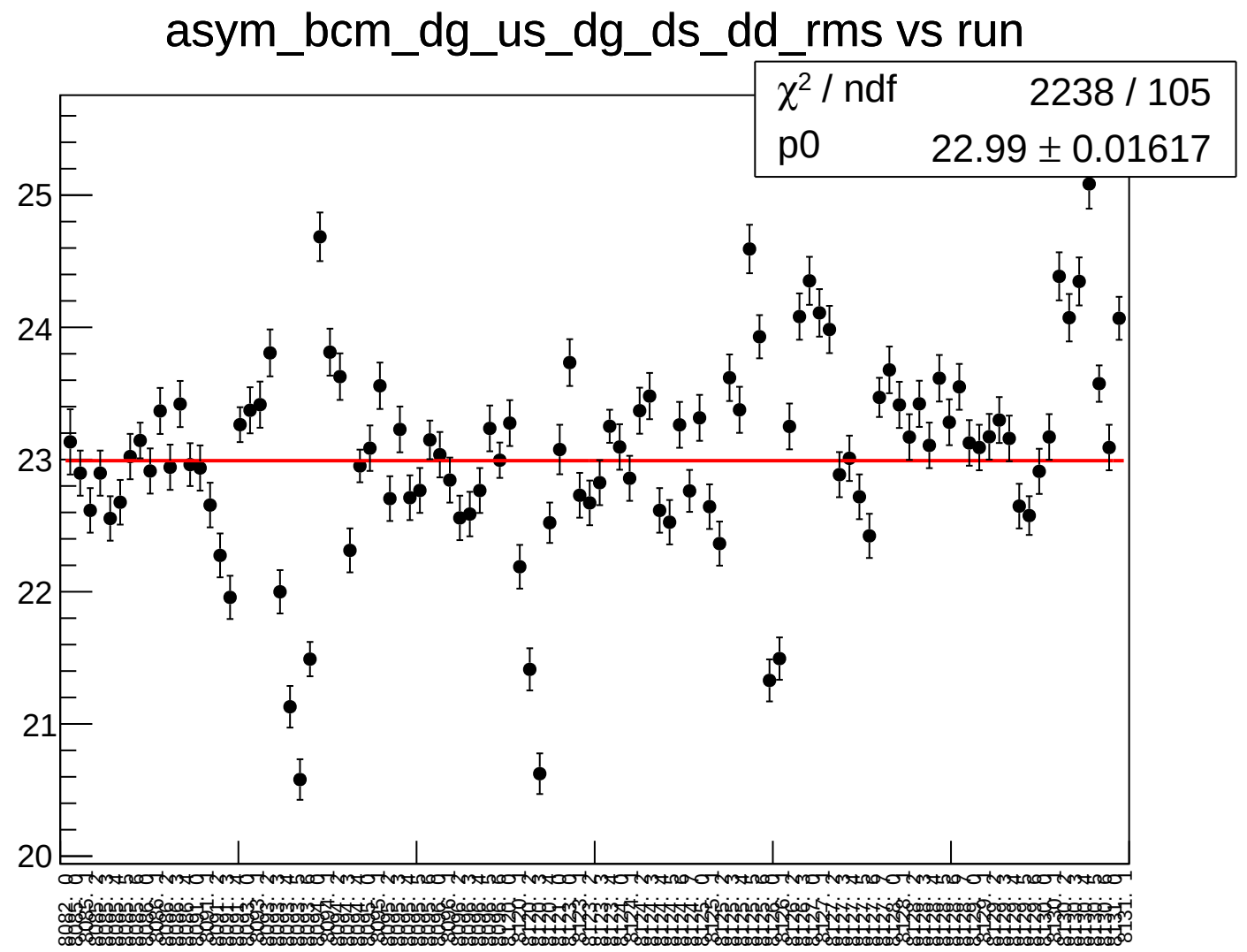

asym_bcm_dg_us_dg_ds_avg_mean vs run
χ² / ndf 36.39 / 105
p0 389.6 ± 151.8
4000
2000
0
−2000
−4000
pull
Entries 106
Mean −761.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

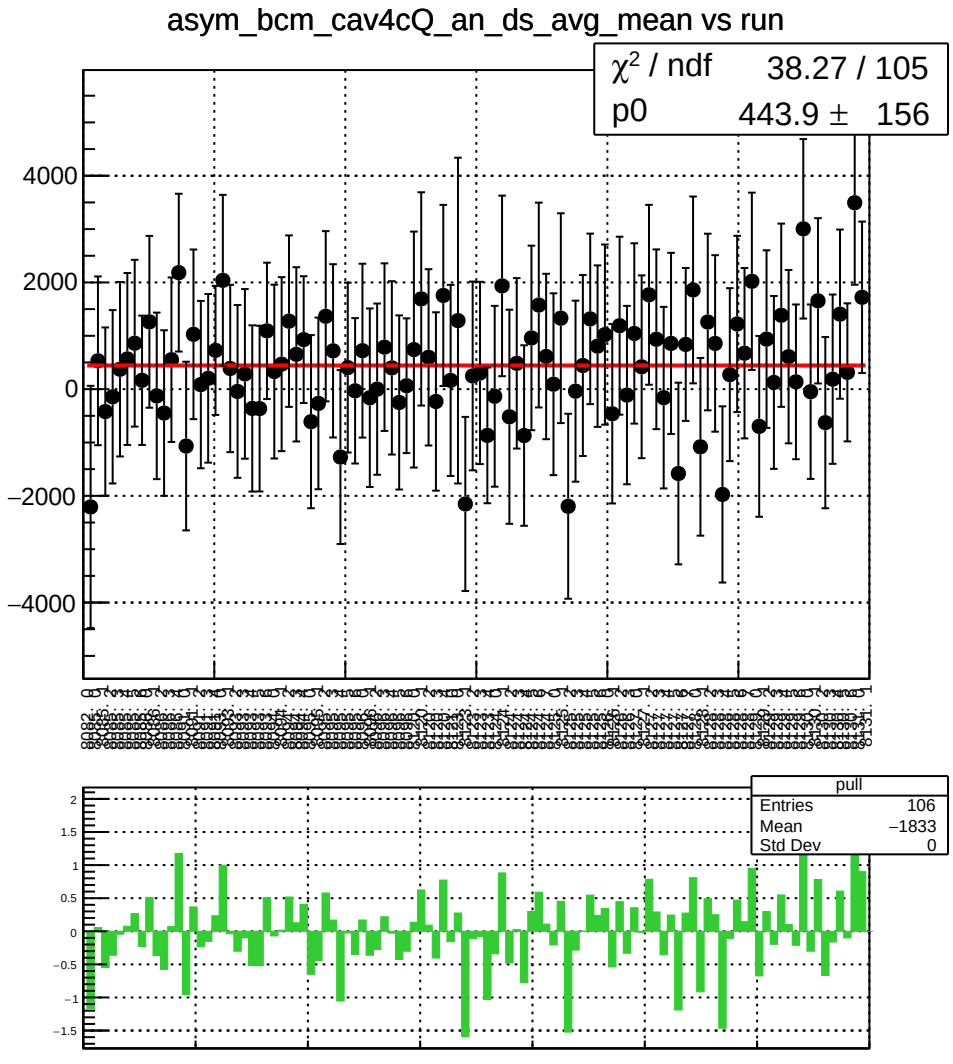

pull1D
Entries 106
Mean −0.003383
Std Dev 0.5859
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

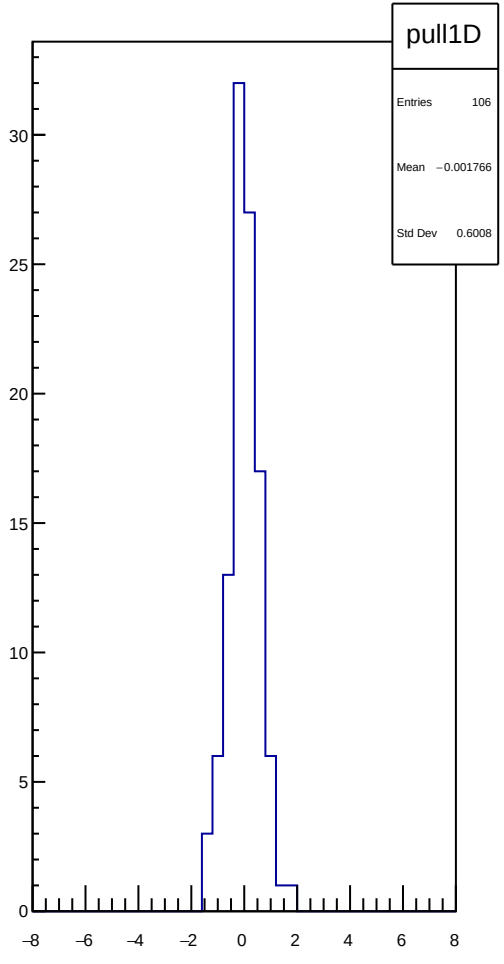

asym_bcm_dg_us_dg_ds_avg_rms vs run
χ² / ndf 8427 / 105
p0 152.4 ± 0.1073
300
280
260
240
220
200
180
160
140

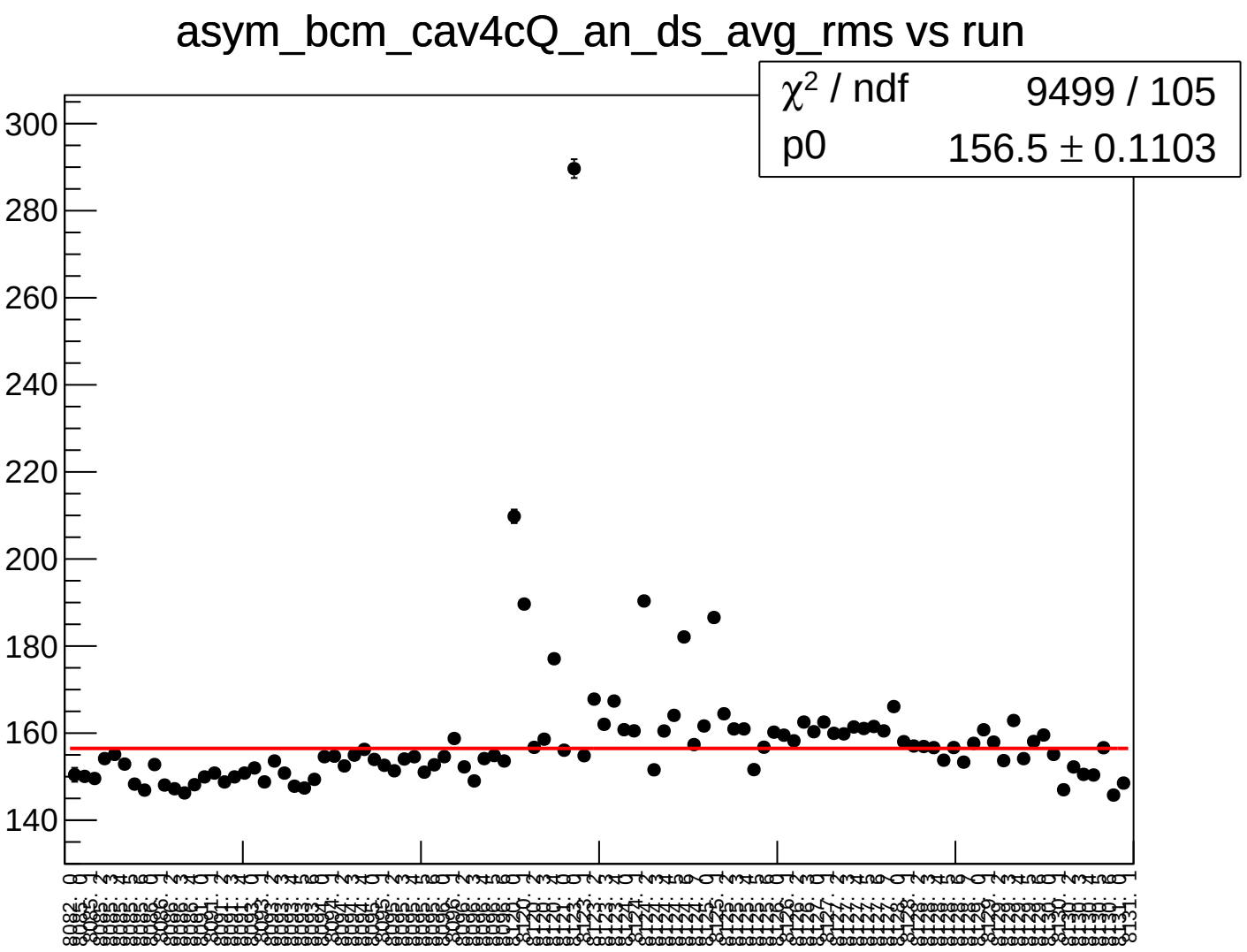

asym_bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 99.99 / 105
p0 −33.04 ± 22.87
1000
500
0
−500
−1000
pull
Entries 106
Mean 274.3
Std Dev 0
2
1
0
−1
−2

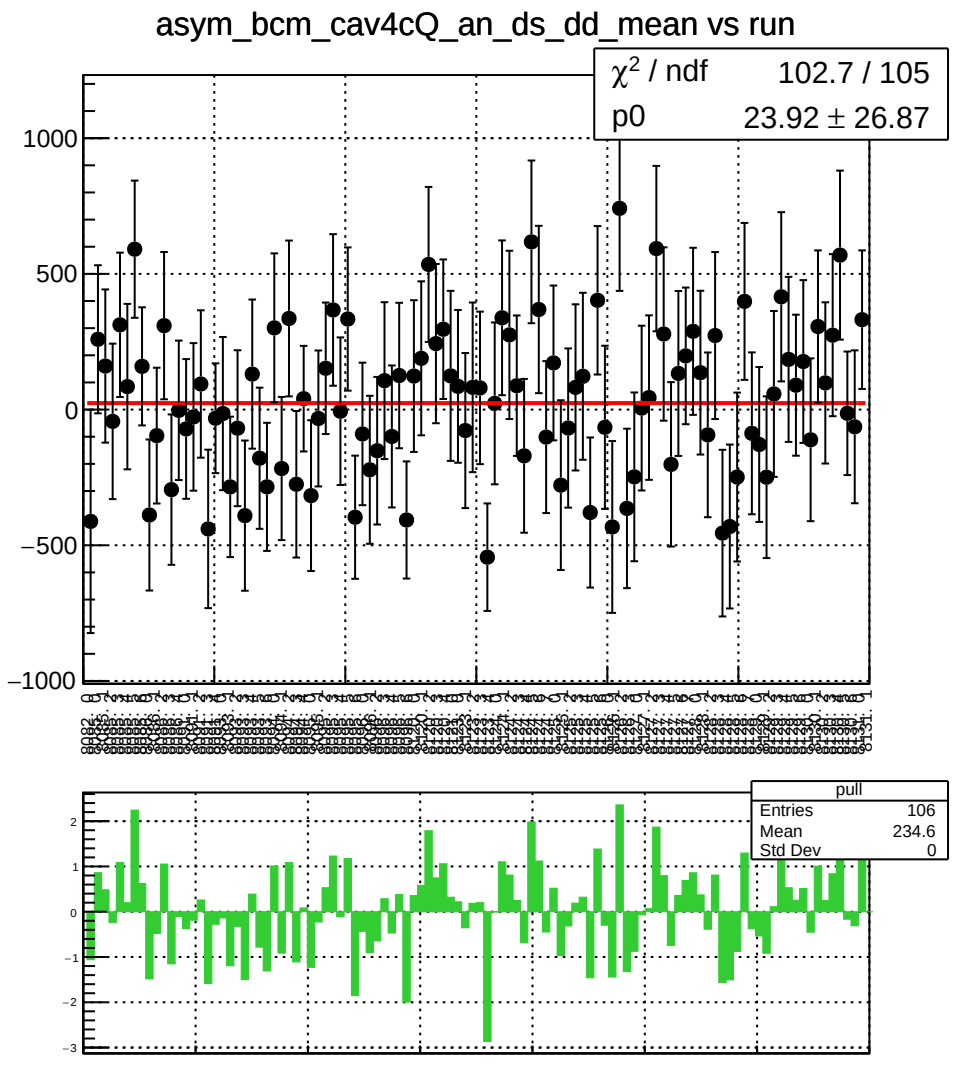

pull1D
Entries 106
Mean −0.001885
Std Dev 0.9712
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

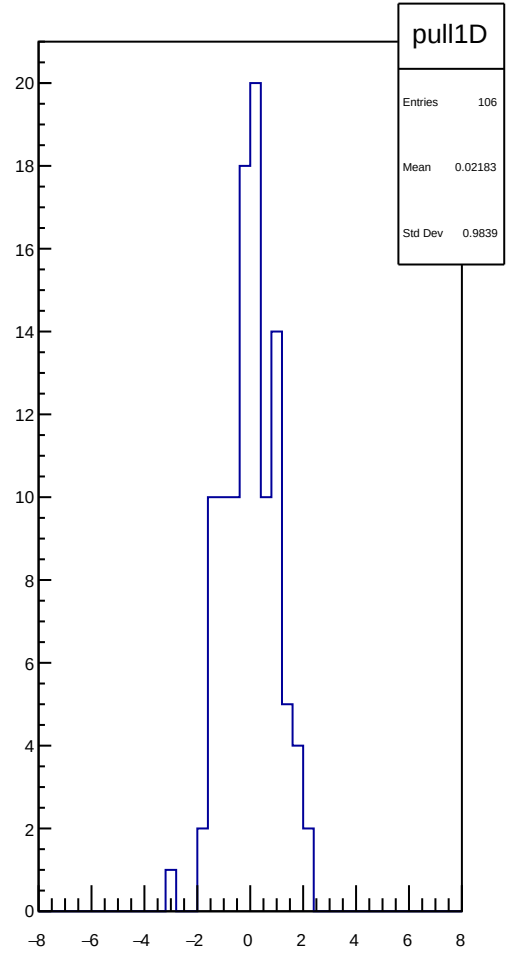

asym_bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 2238 / 105
p0 22.99 ± 0.01617
25
24
23
22
21
20

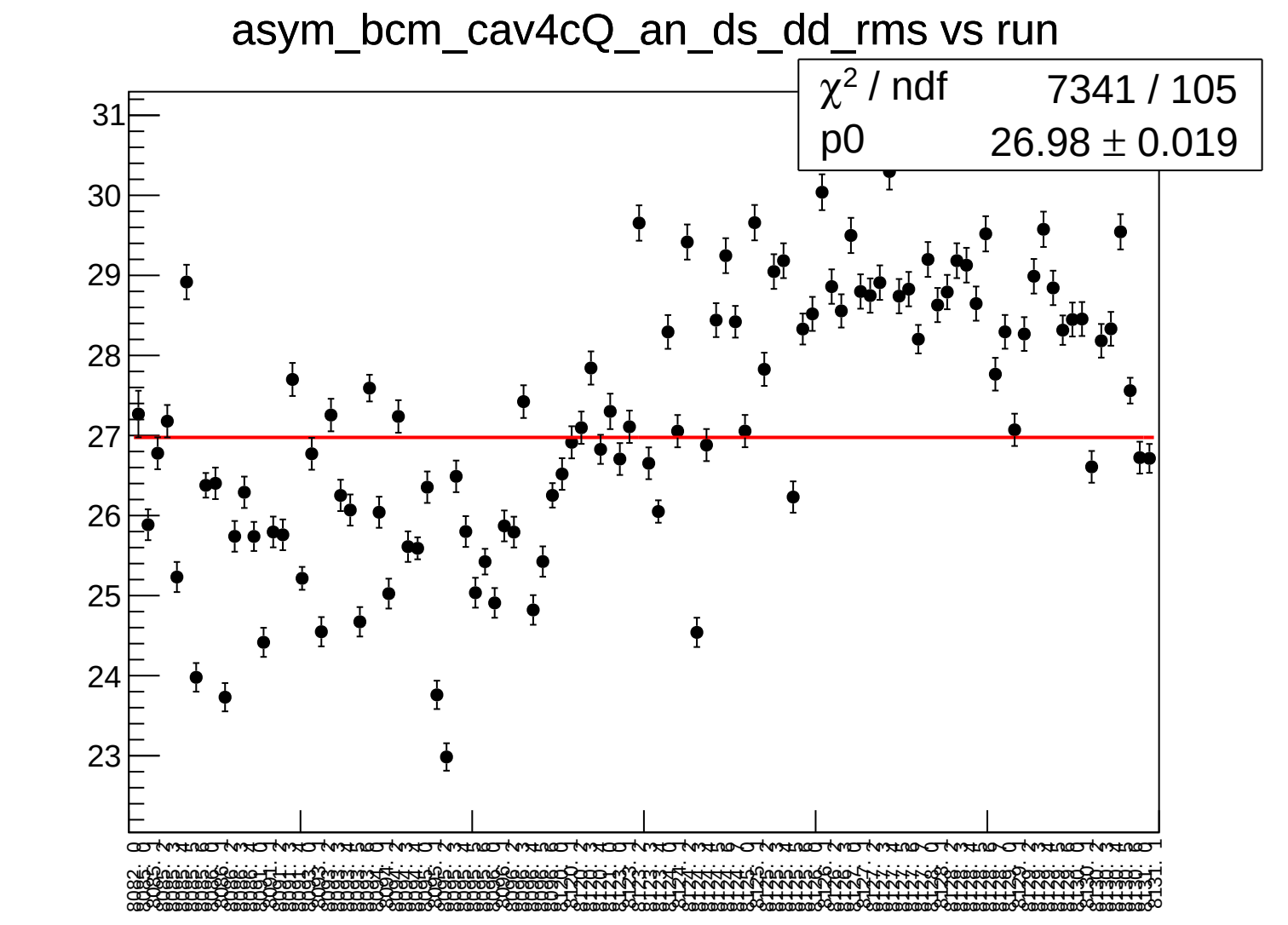

asym_bcm_cav4cQ_an_ds_avg_mean vs run
χ² / ndf 38.27 / 105
p0 443.9 ± 156
4000
2000
0
−2000
−4000
pull
Entries 106
Mean −1833
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

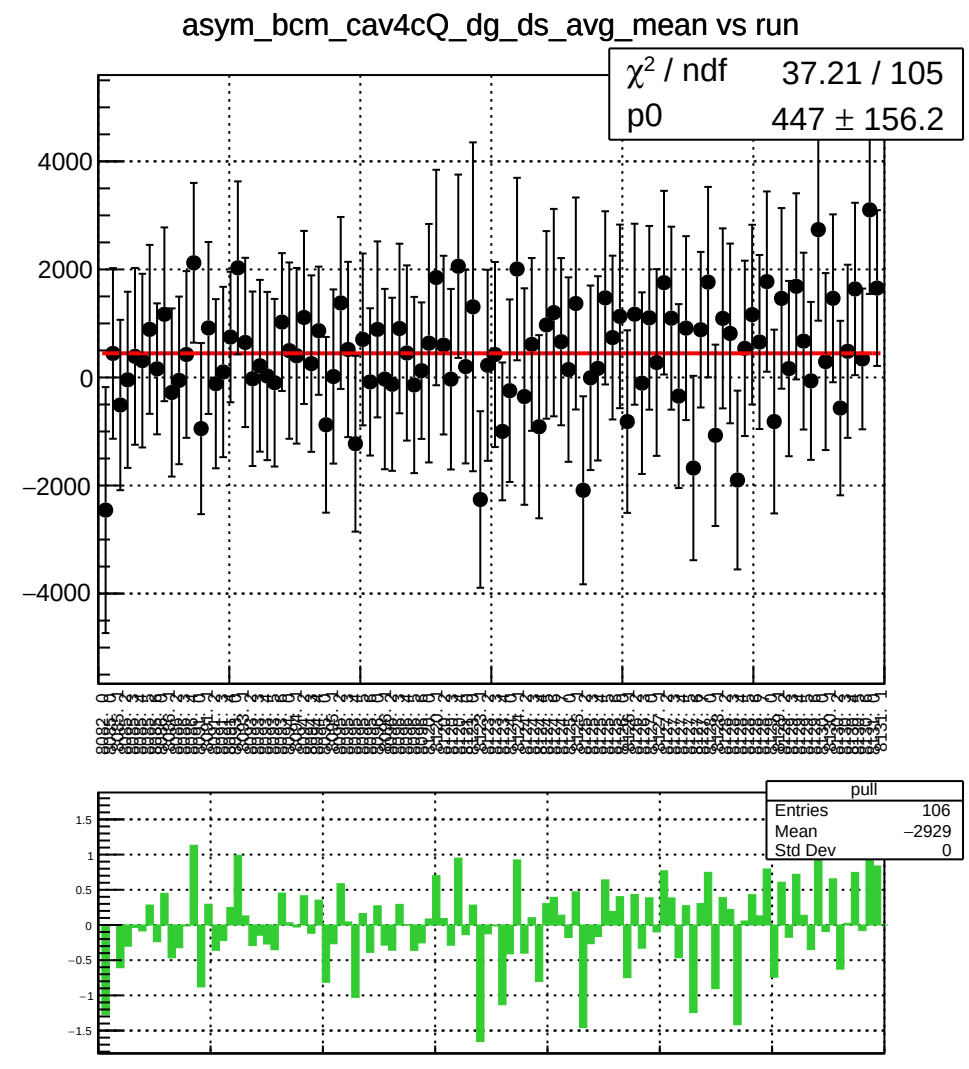

pull1D
Entries 106
Mean −0.001766
Std Dev 0.6008
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

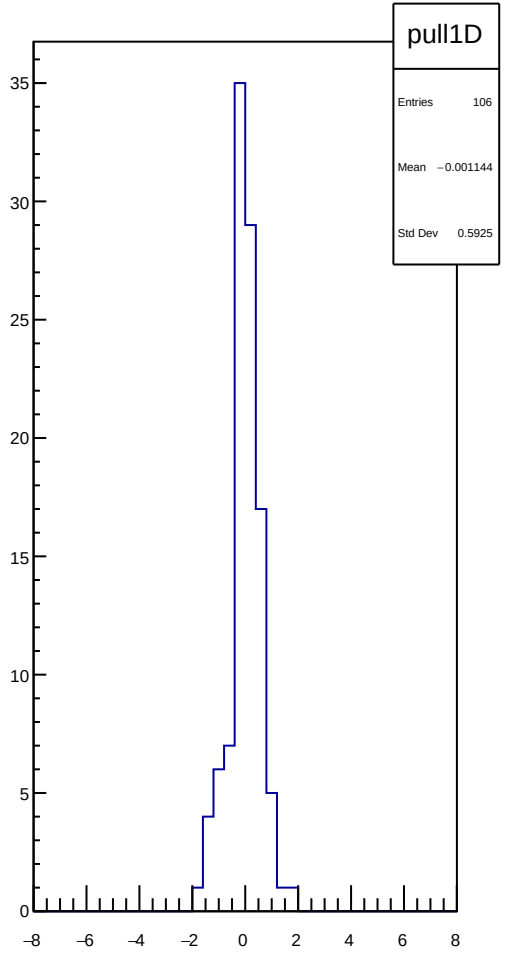

asym_bcm_cav4cQ_an_ds_avg_rms vs run
χ² / ndf 9499 / 105
p0 156.5 ± 0.1103
300
280
260
240
220
200
180
160
140

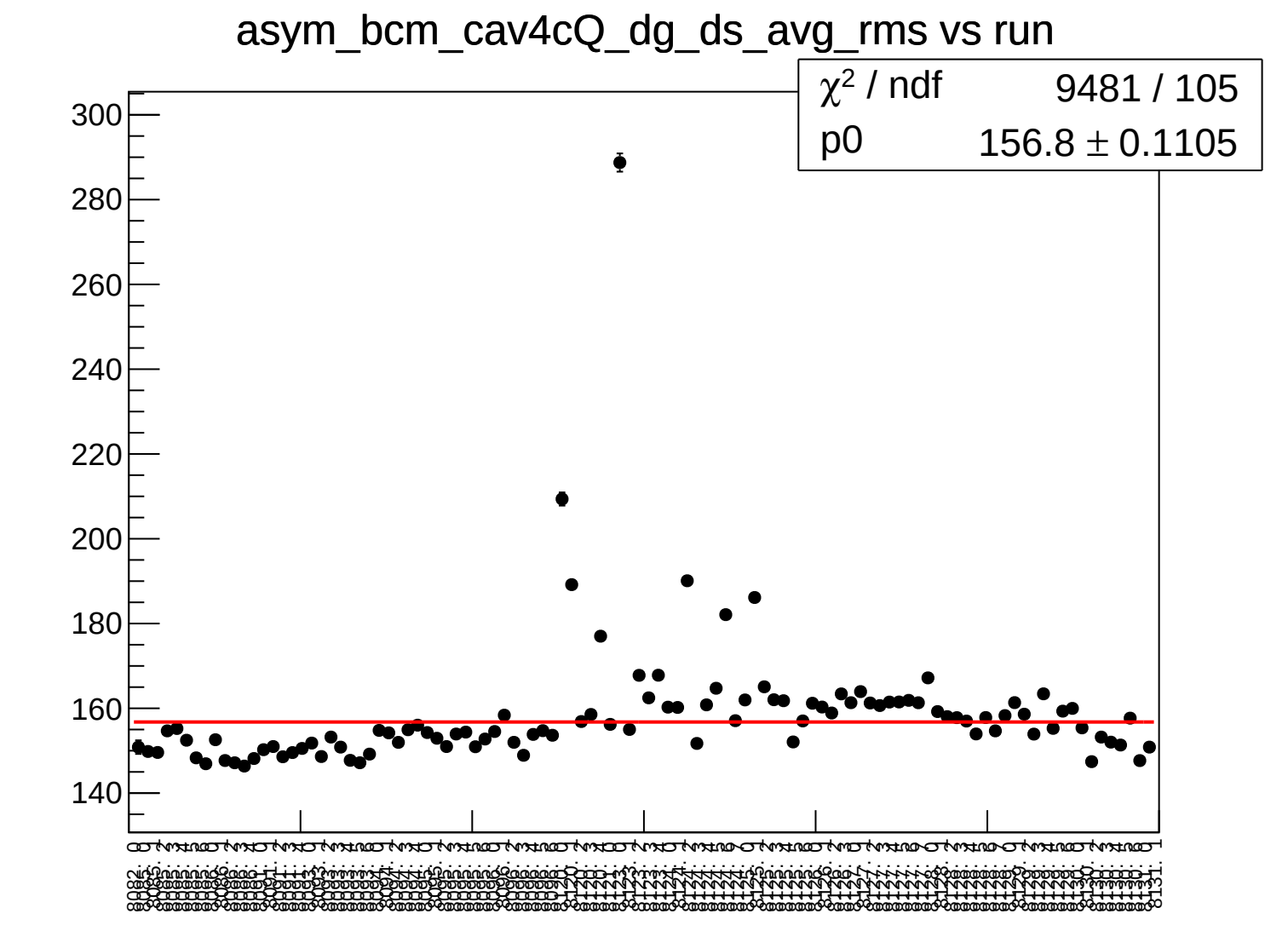

asym_bcm_cav4cQ_an_ds_dd_mean vs run
χ² / ndf 102.7 / 105
p0 23.92 ± 26.87
1000
500
0
−500
−1000
pull
Entries 106
Mean 234.6
Std Dev 0
2
1
0
−1
−2
−3

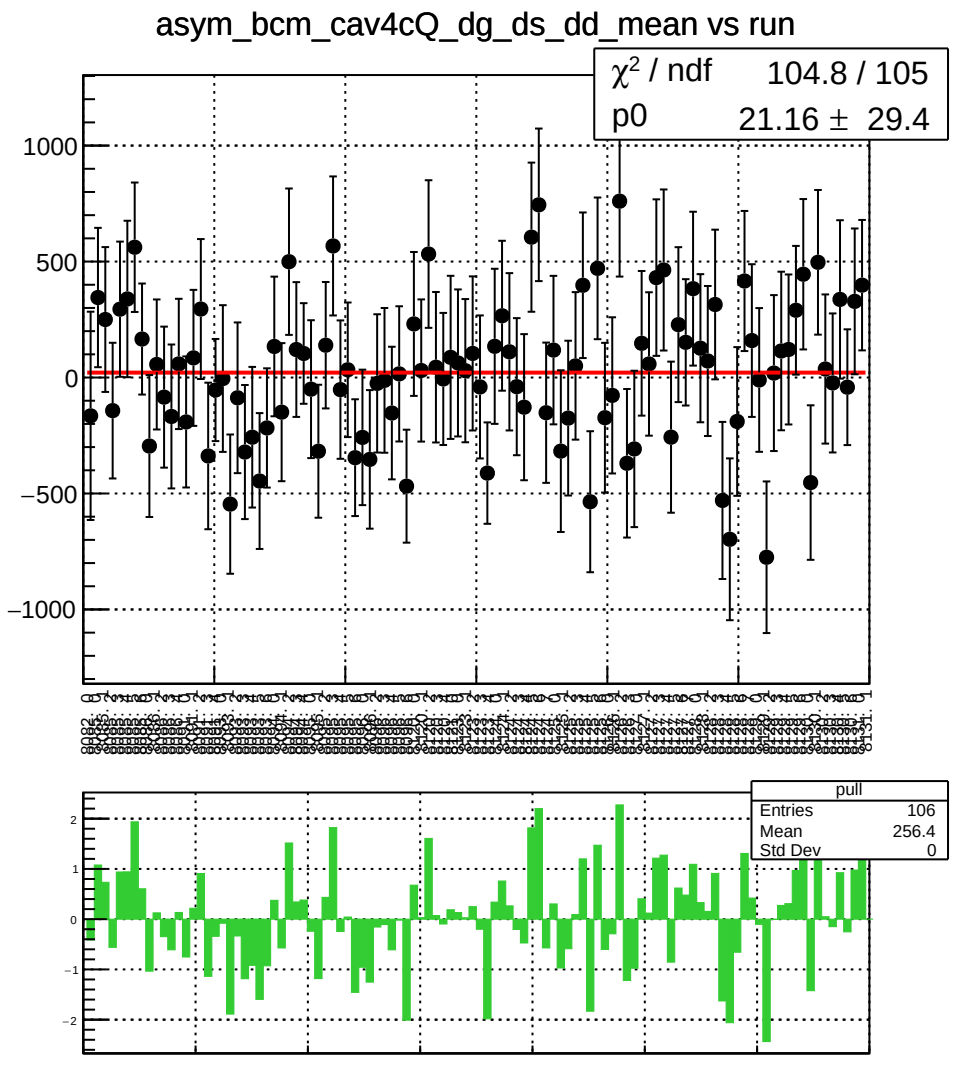

pull1D
Entries 106
Mean 0.02183
Std Dev 0.9839
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

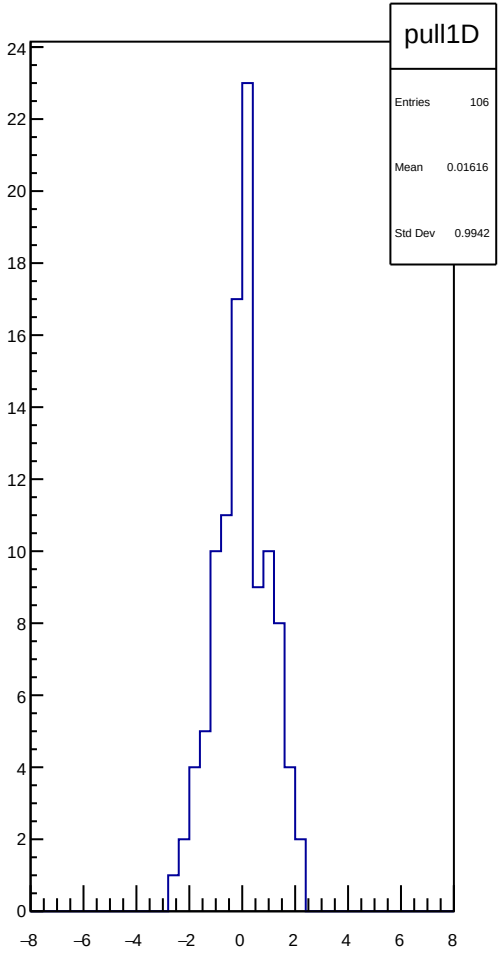

asym_bcm_cav4cQ_an_ds_dd_rms vs run
χ² / ndf 7341 / 105
p0 26.98 ± 0.019
31
30
29
28
27
26
25
24
23

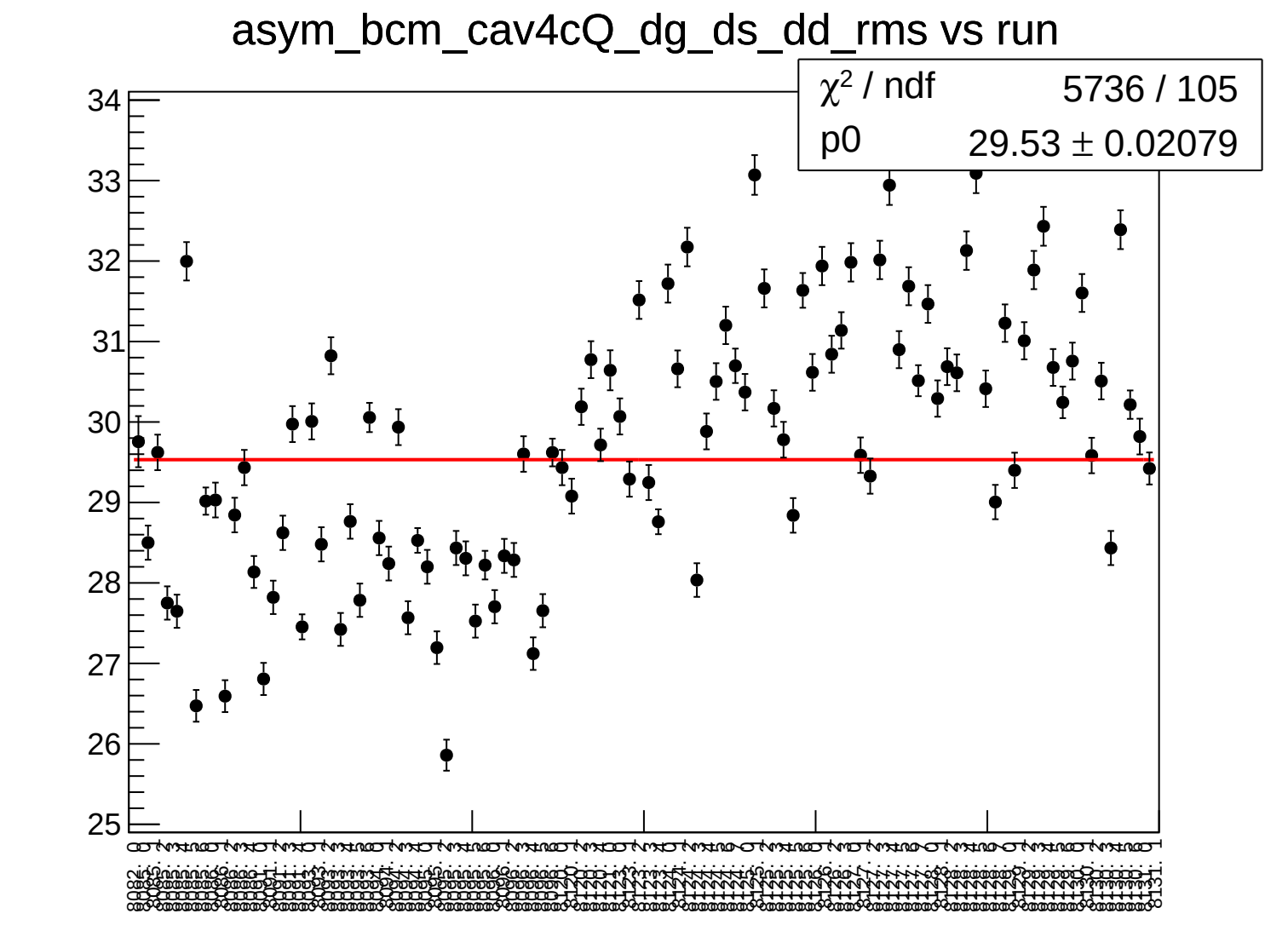

asym_bcm_cav4cQ_dg_ds_avg_mean vs run
χ² / ndf 37.21 / 105
p0 447 ± 156.2
4000
2000
0
−2000
−4000
pull
Entries 106
Mean −2929
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 106
Mean −0.001144
Std Dev 0.5925
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 9481 / 105
p0 156.8 ± 0.1105
300
280
260
240
220
200
180
160
140


asym_bcm_cav4cQ_dg_ds_dd_mean vs run
χ² / ndf 104.8 / 105
p0 21.16 ± 29.4
1000
500
0
−500
−1000
pull
Entries 106
Mean 256.4
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 106
Mean 0.01616
Std Dev 0.9942
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_dg_ds_dd_rms vs run
χ² / ndf 5736 / 105
p0 29.53 ± 0.02079
34
33
32
31
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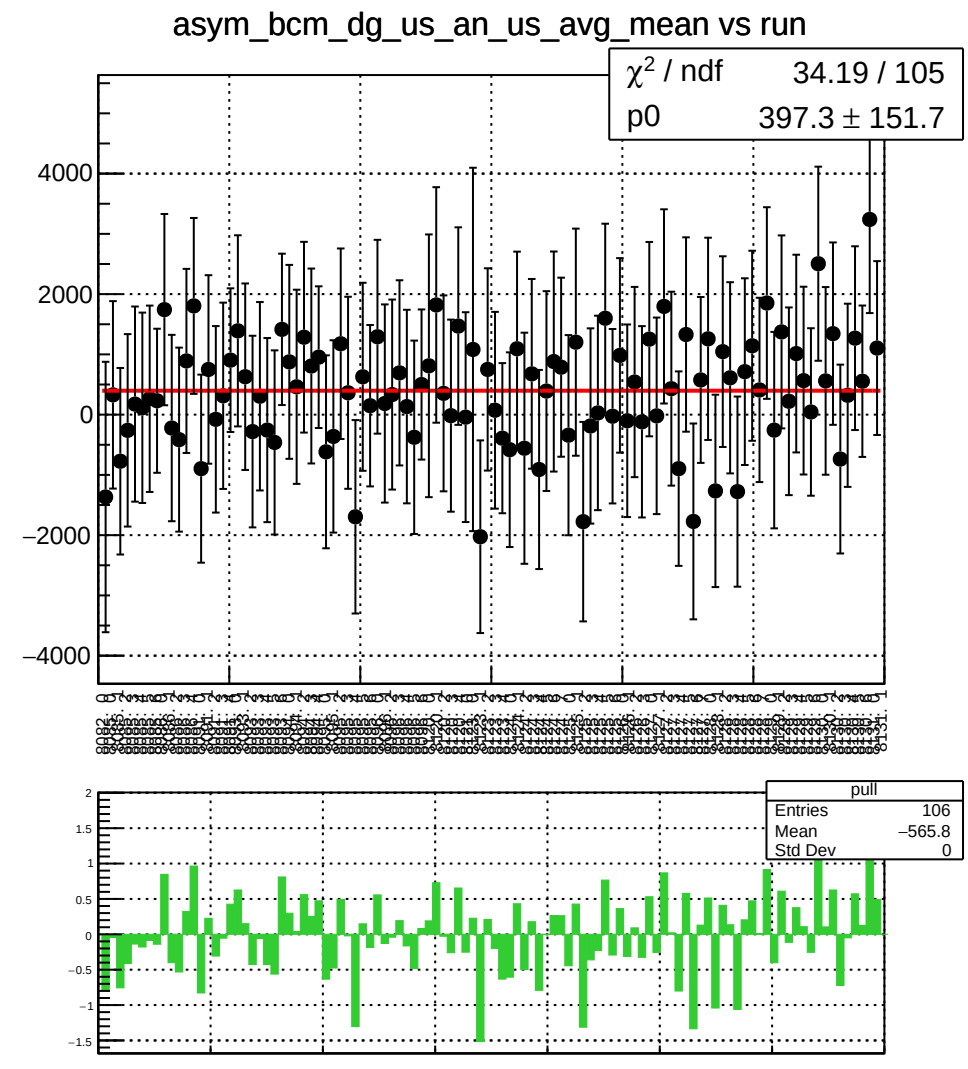
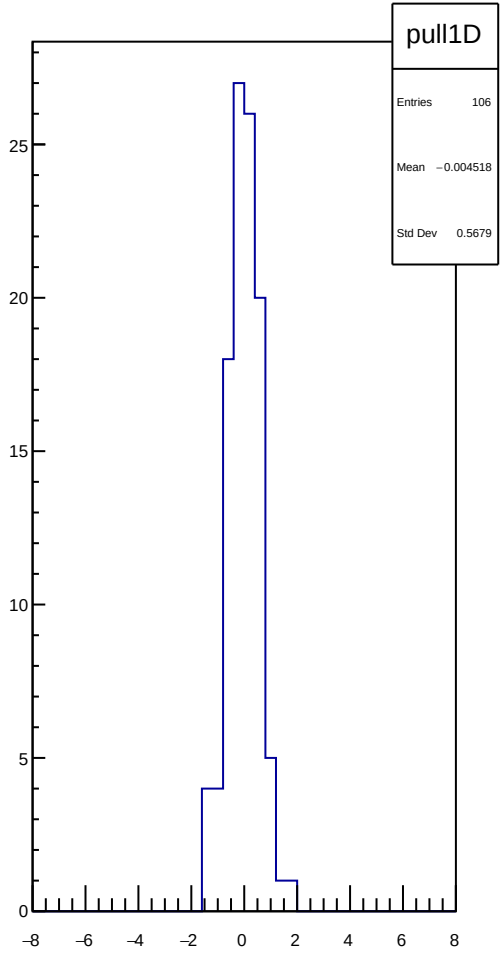
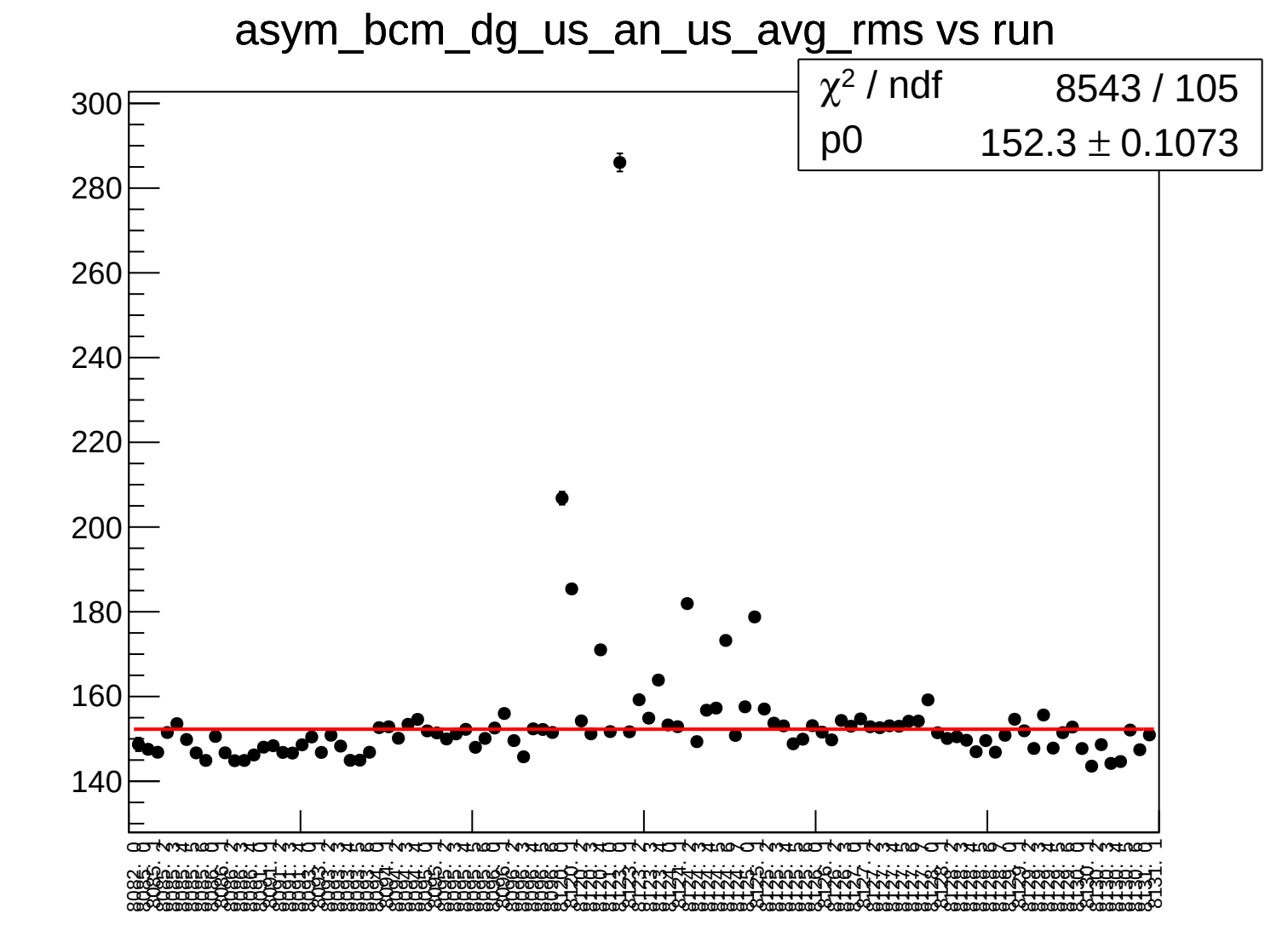
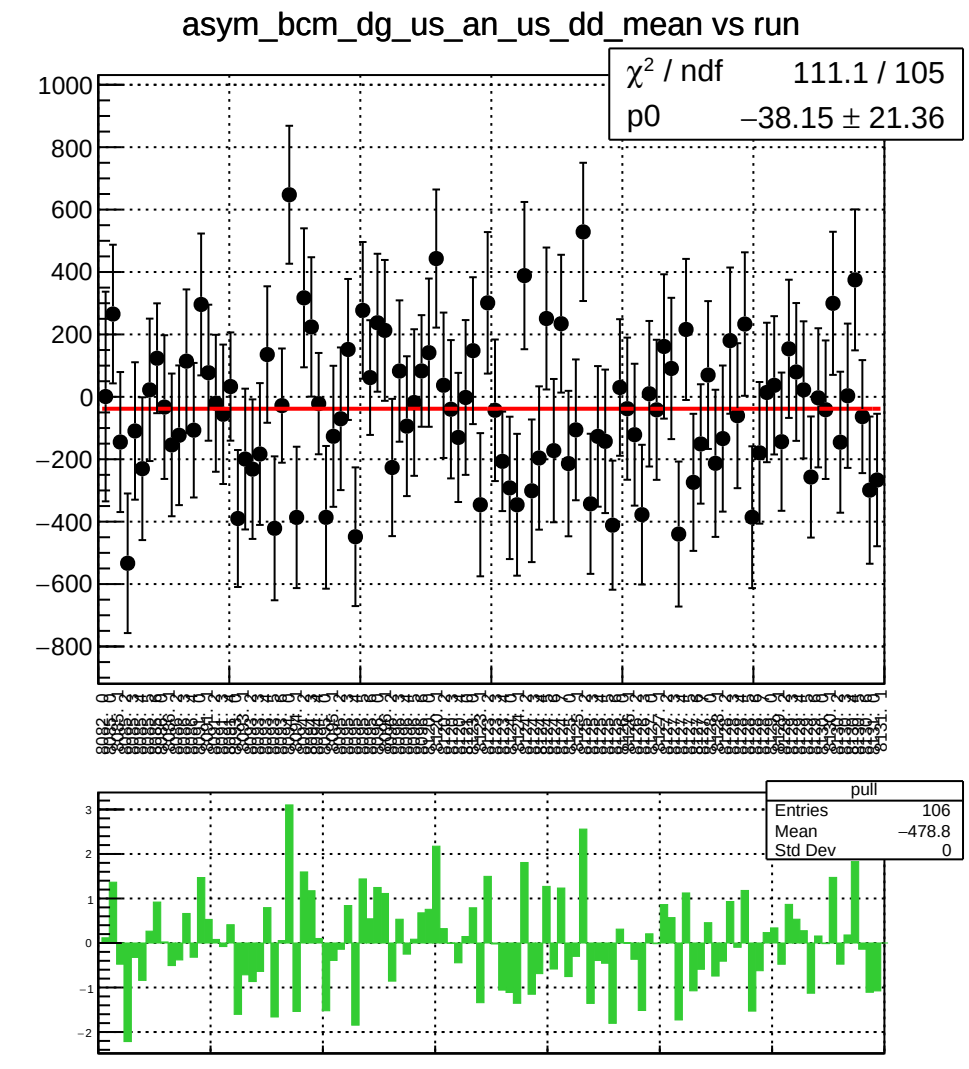
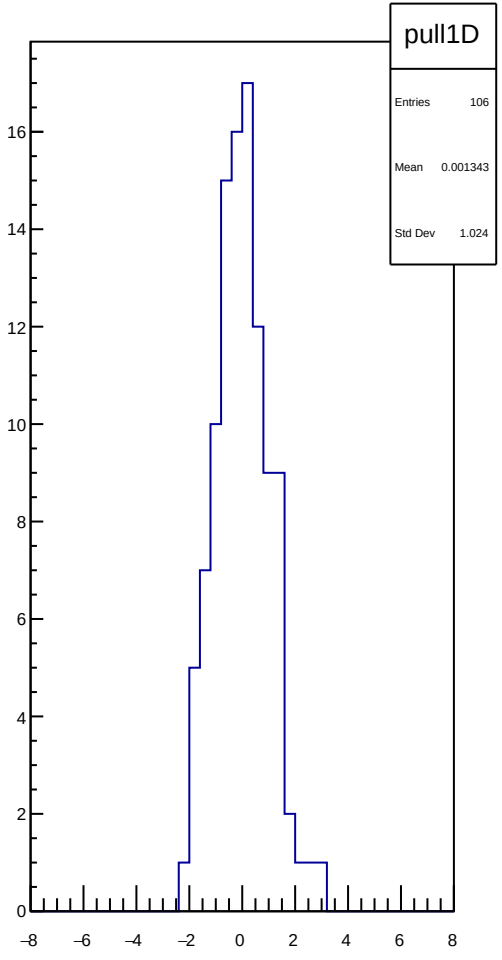
29
28
27
26
25

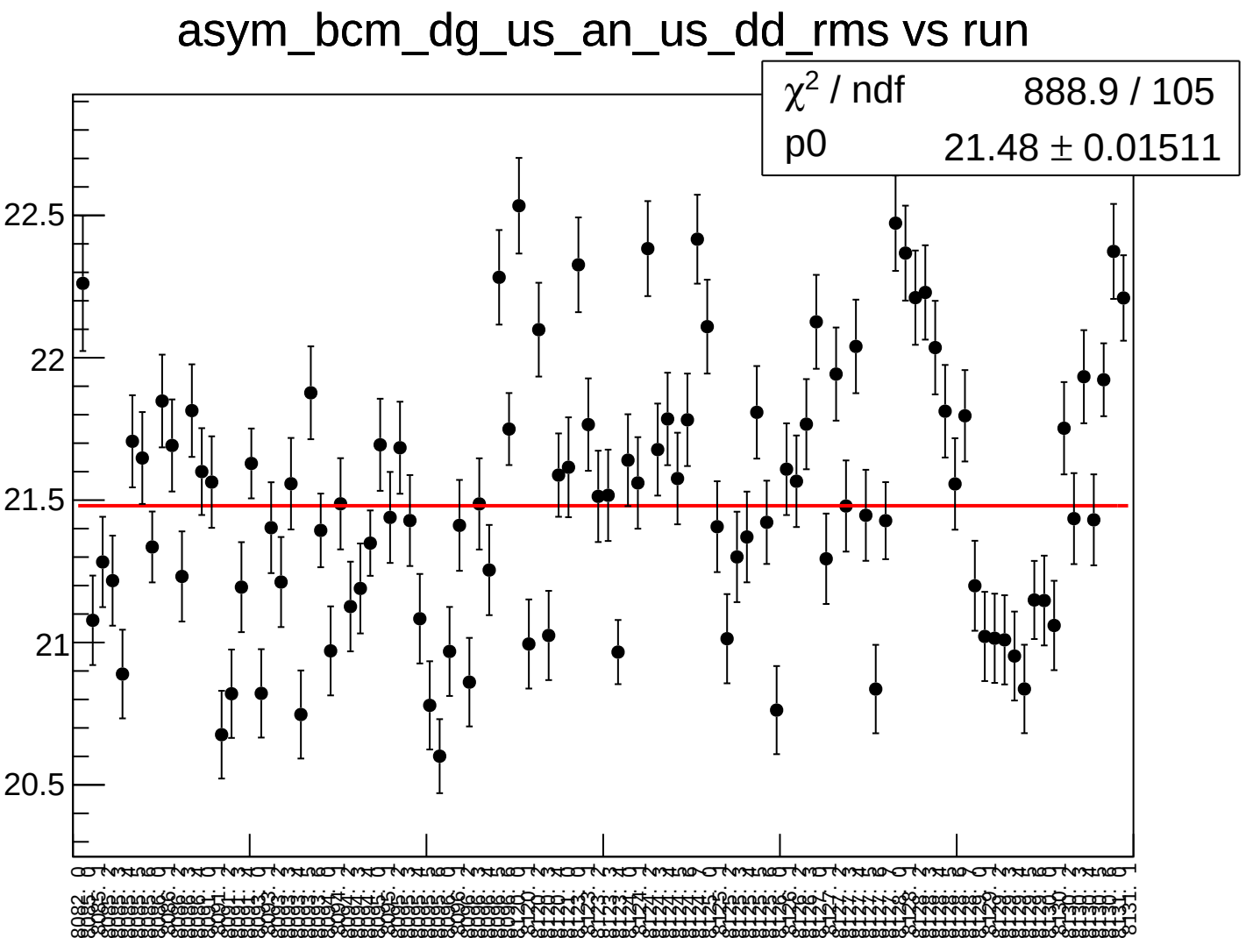

asym_bcm_dg_us_an_us_avg_mean vs run
χ² / ndf 34.19 / 105
p0 397.3 ± 151.7
4000
2000
0
−2000
−4000
pull
Entries 106
Mean −565.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

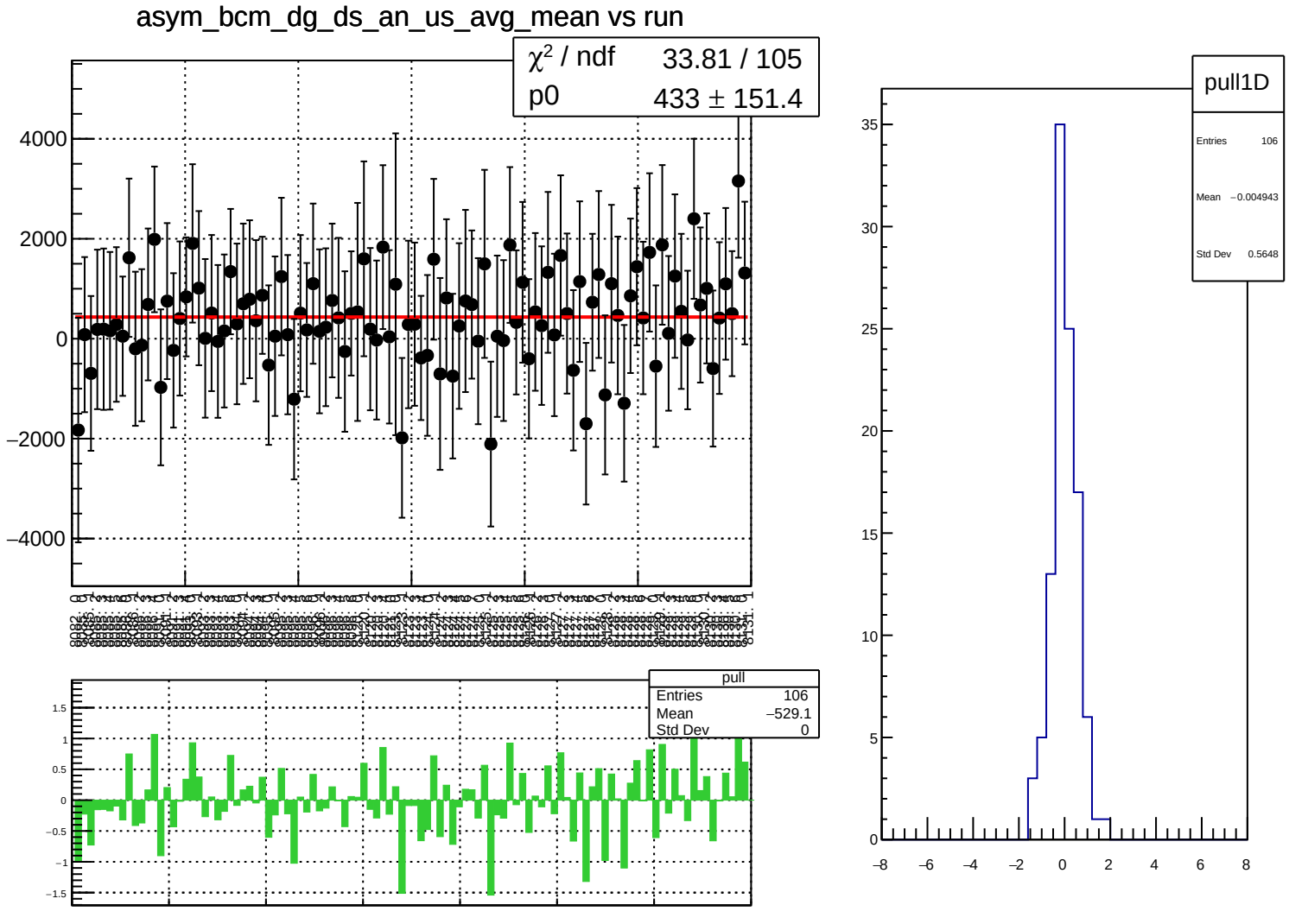

pull1D
Entries 106
Mean −0.004518
Std Dev 0.5679
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

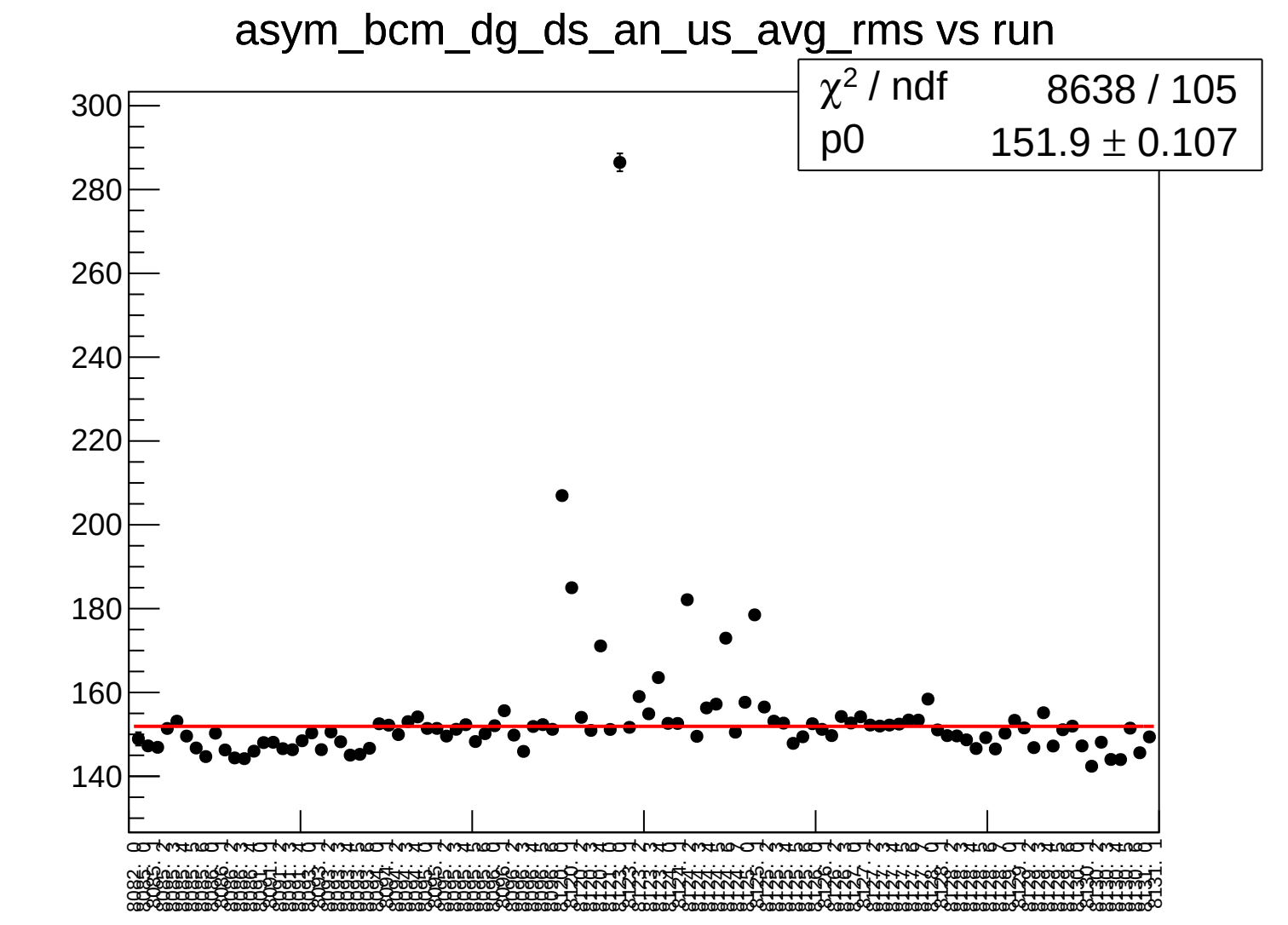

asym_bcm_dg_us_an_us_avg_rms vs run
χ² / ndf 8543 / 105
p0 152.3 ± 0.1073
300
280
260
240
220
200
180
160
140

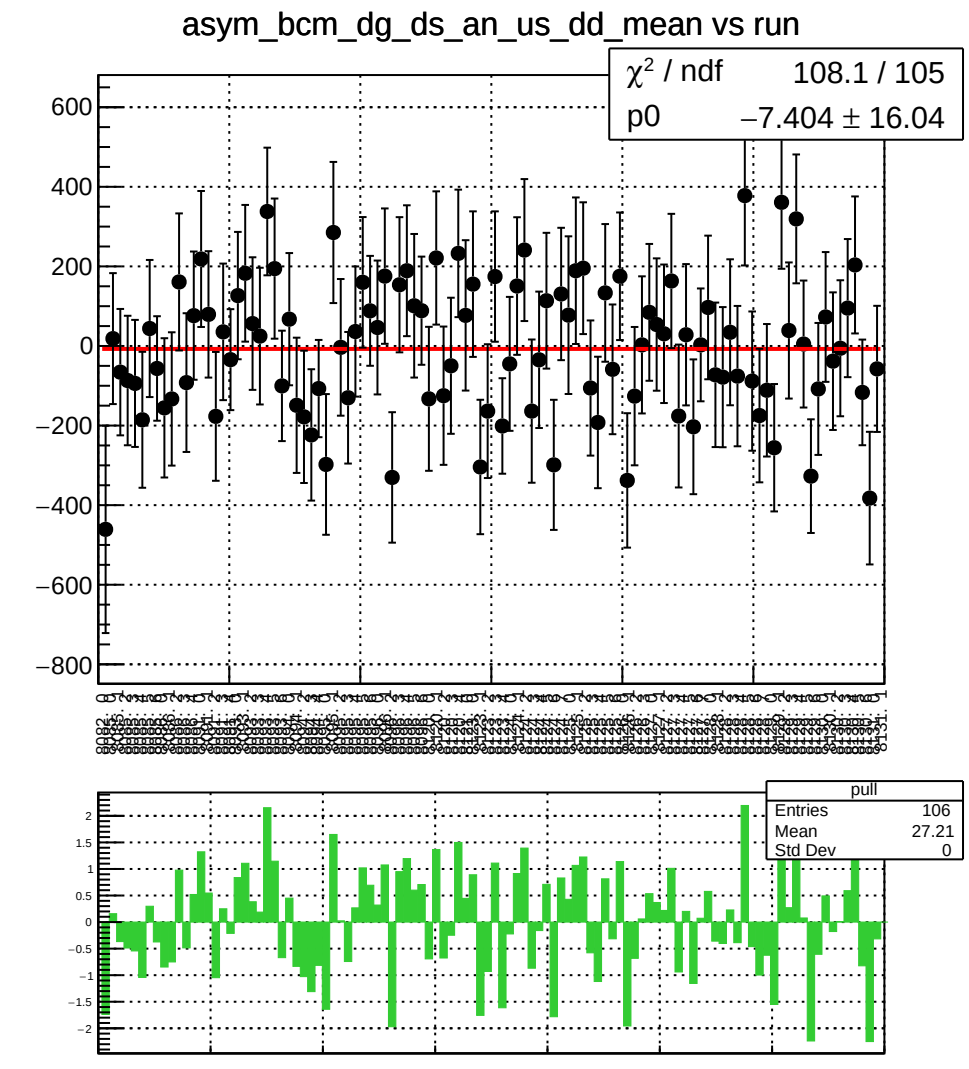

asym_bcm_dg_us_an_us_dd_mean vs run
χ² / ndf 111.1 / 105
p0 −38.15 ± 21.36
pull
Entries 106
Mean −478.8
Std Dev 0

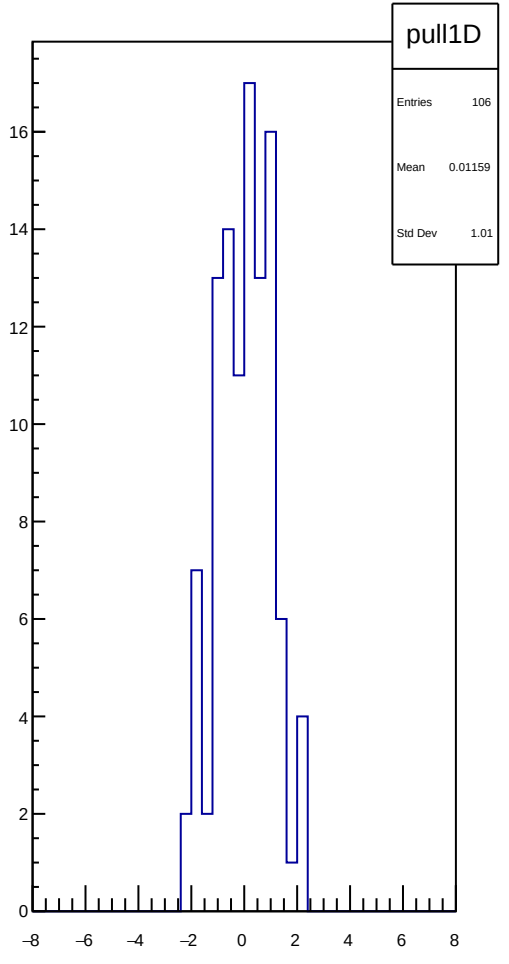

pull1D
Entries 106
Mean 0.001343
Std Dev 1.024

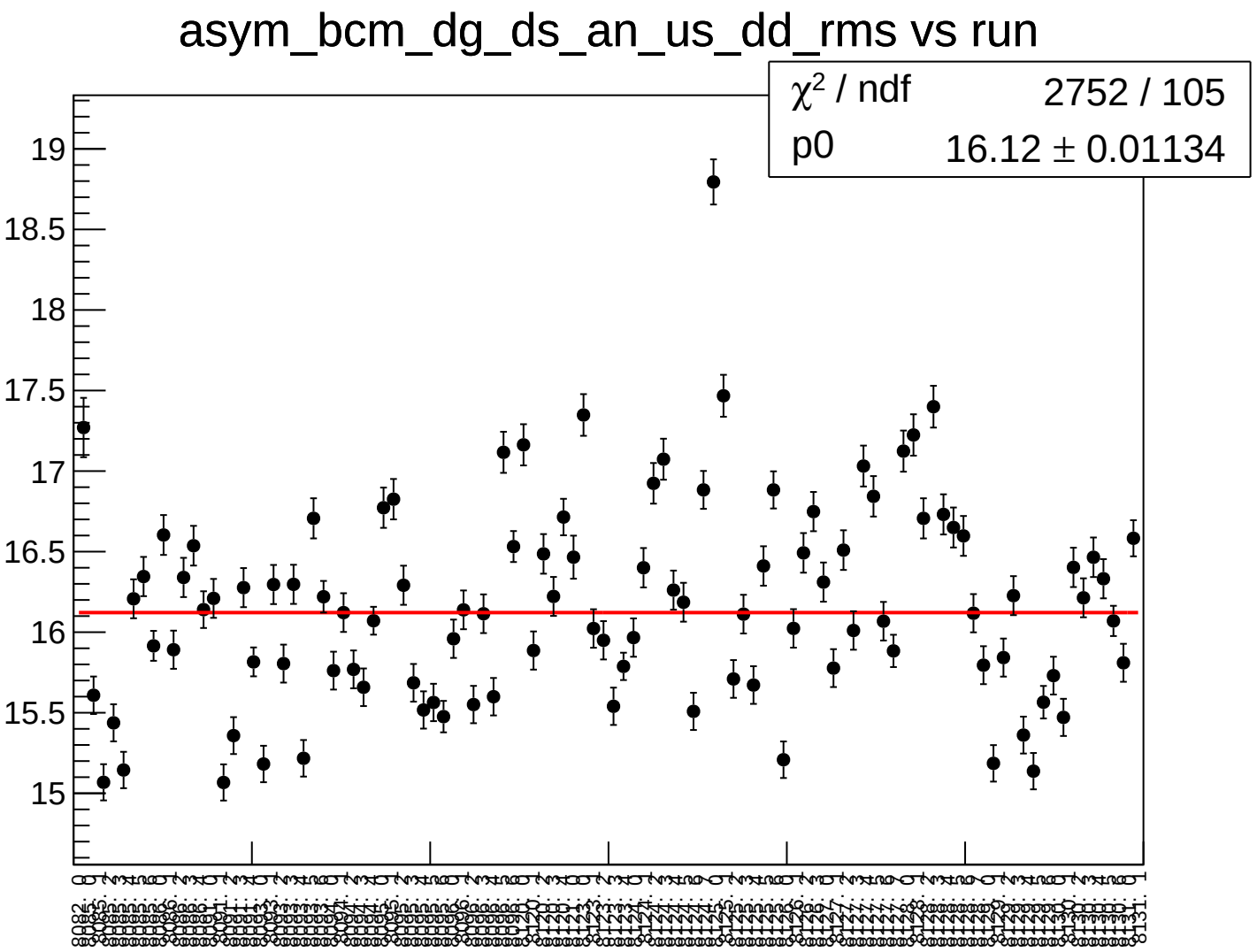

asym_bcm_dg_us_an_us_dd_rms vs run
χ² / ndf 888.9 / 105
p0 21.48 ± 0.01511
22.5
22
21.5
21
20.5

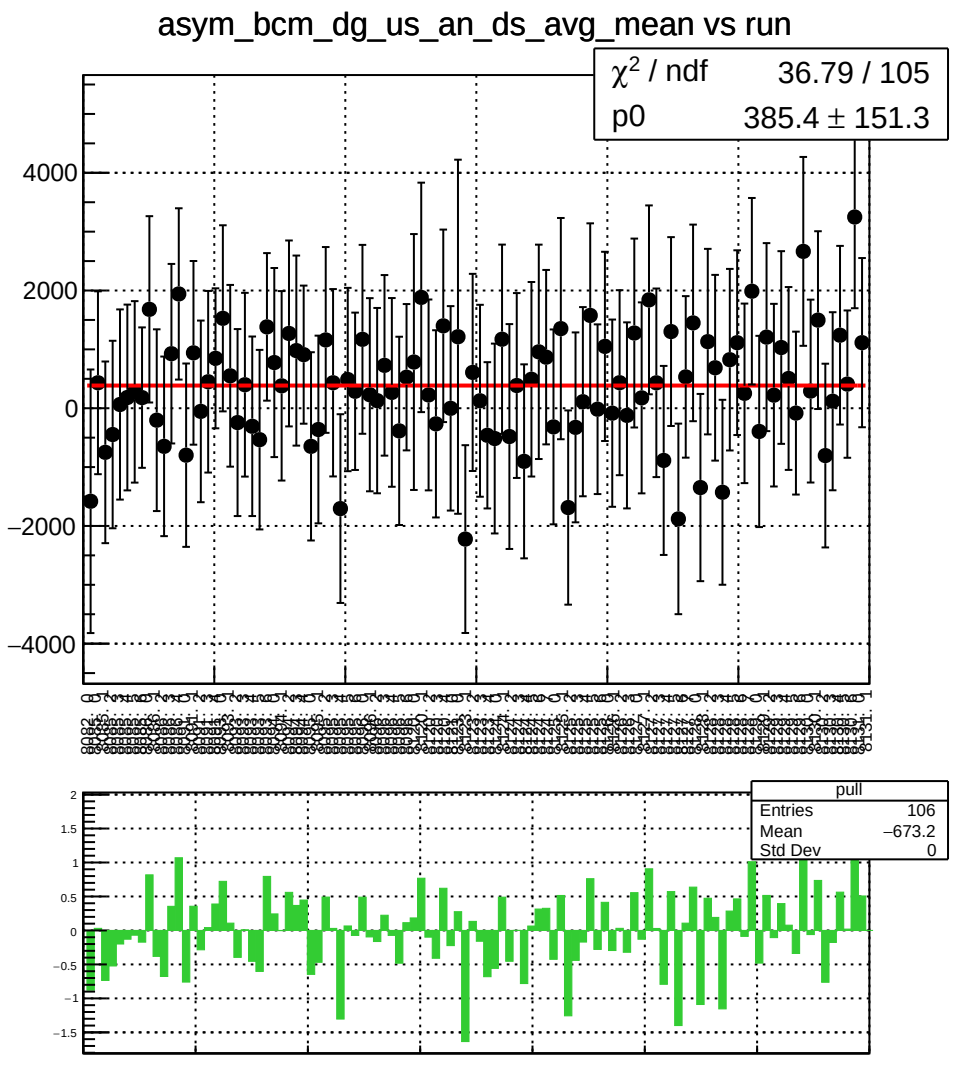

asym_bcm_dg_ds_an_us_avg_mean vs run
χ² / ndf 33.81 / 105
p0 433 ± 151.4
4000
2000
0
−2000
−4000
pull
Entries 106
Mean −529.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 106
Mean −0.004943
Std Dev 0.5648
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

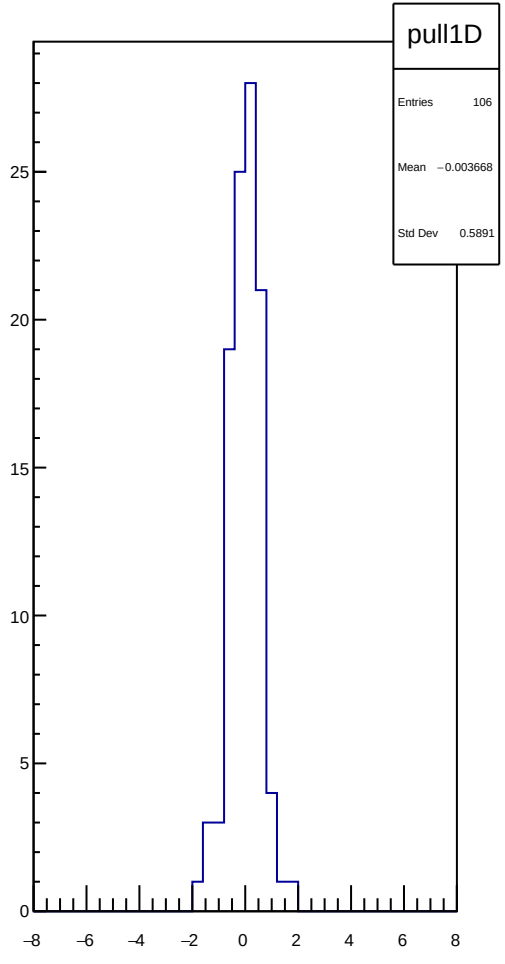

asym_bcm_dg_ds_an_us_avg_rms vs run
$\chi^2$ / ndf 8638 / 105
p0 151.9 ± 0.107
300
280
260
240
220
200
180
160
140

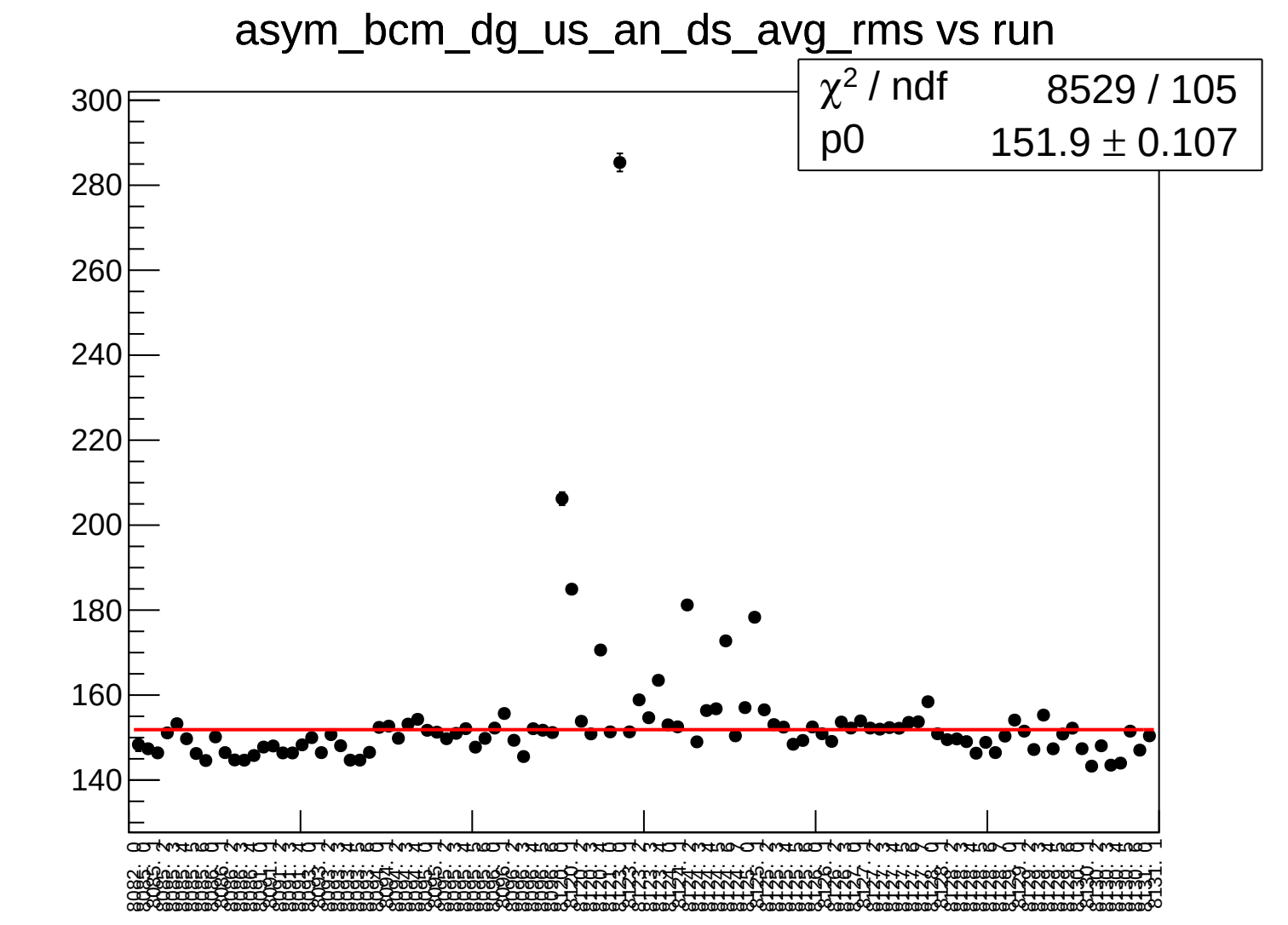

asym_bcm_dg_ds_an_us_dd_mean vs run
χ² / ndf 108.1 / 105
p0 −7.404 ± 16.04
600
400
200
0
−200
−400
−600
−800
pull
Entries 106
Mean 27.21
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

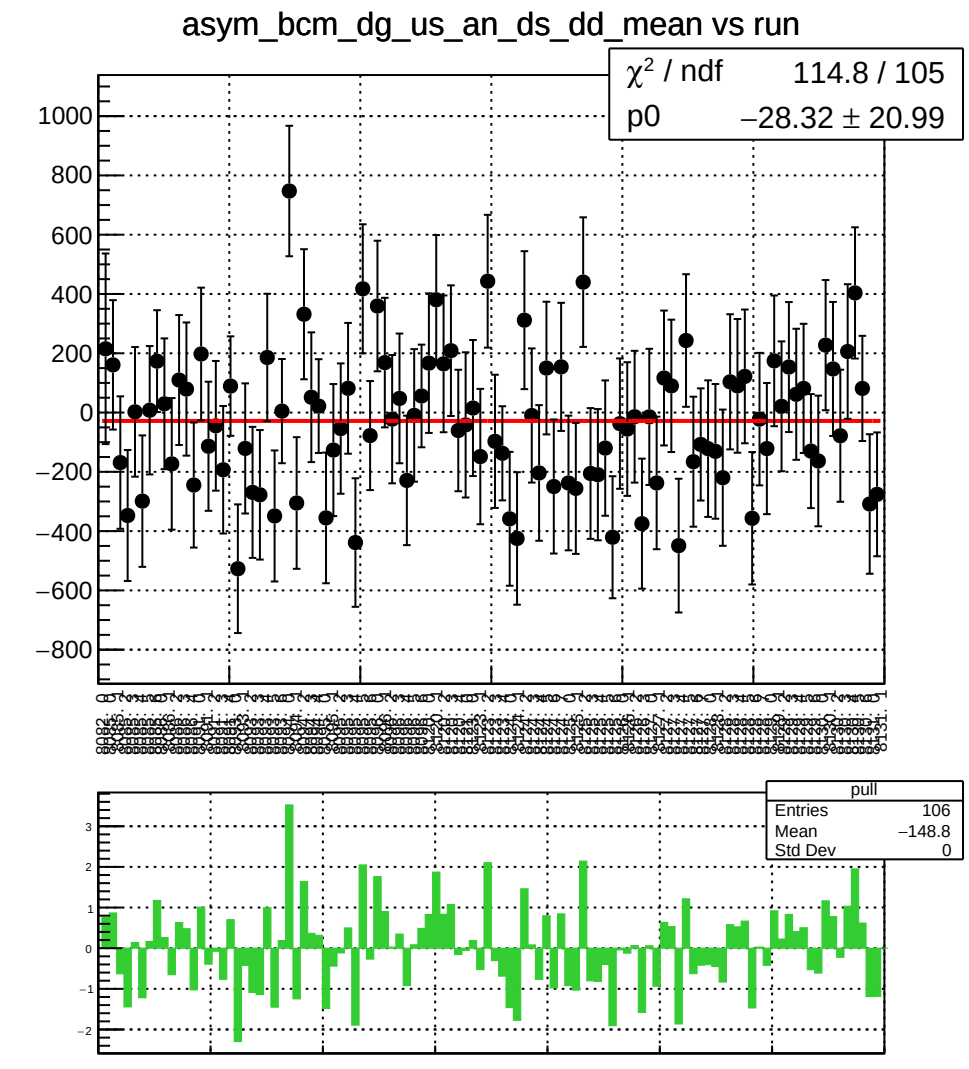

pull1D
Entries 106
Mean 0.01159
Std Dev 1.01
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

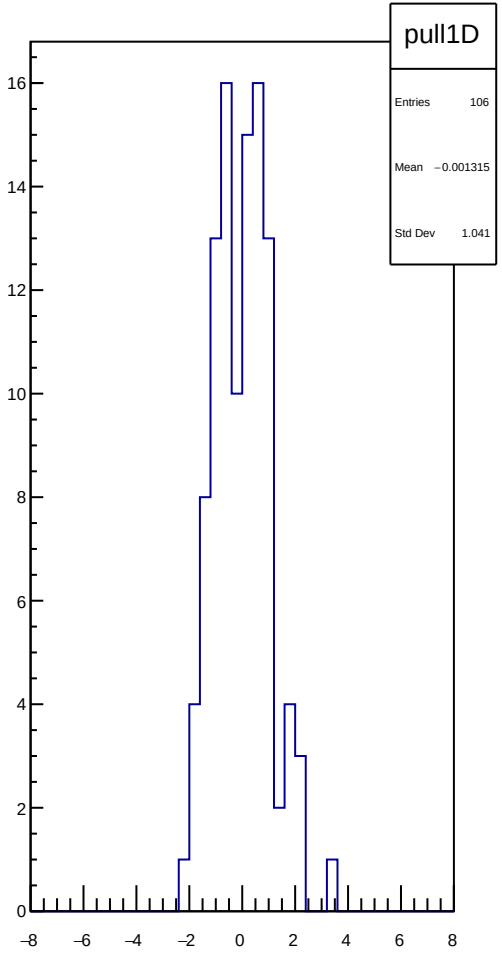

asym_bcm_dg_ds_an_us_dd_rms vs run
χ² / ndf 2752 / 105
p0 16.12 ± 0.01134
19
18.5
18
17.5
17
16.5
16
15.5
15

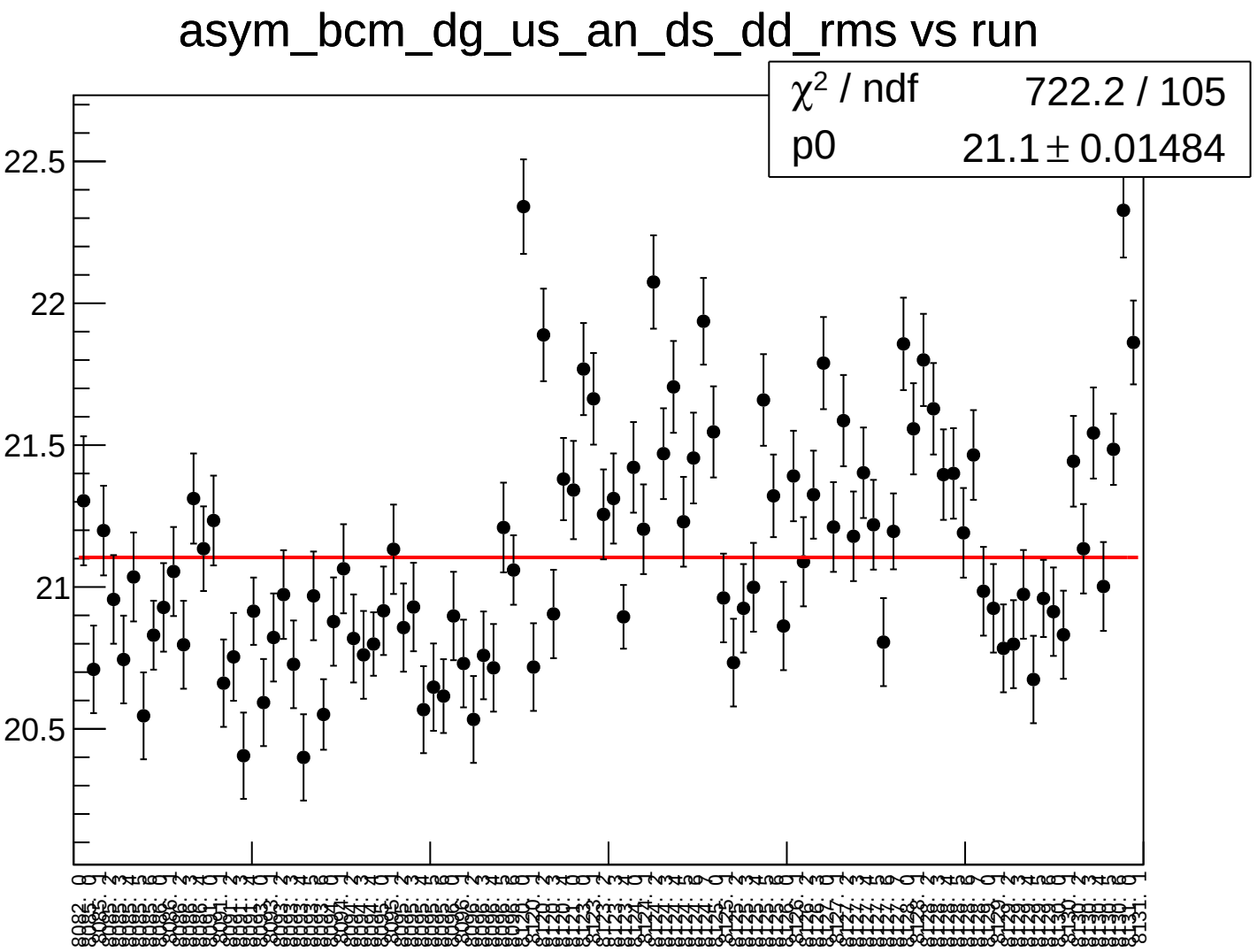

asym_bcm_dg_us_an_ds_avg_mean vs run
χ² / ndf 36.79 / 105
p0 385.4 ± 151.3
4000
2000
0
−2000
−4000
pull
Entries 106
Mean −673.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

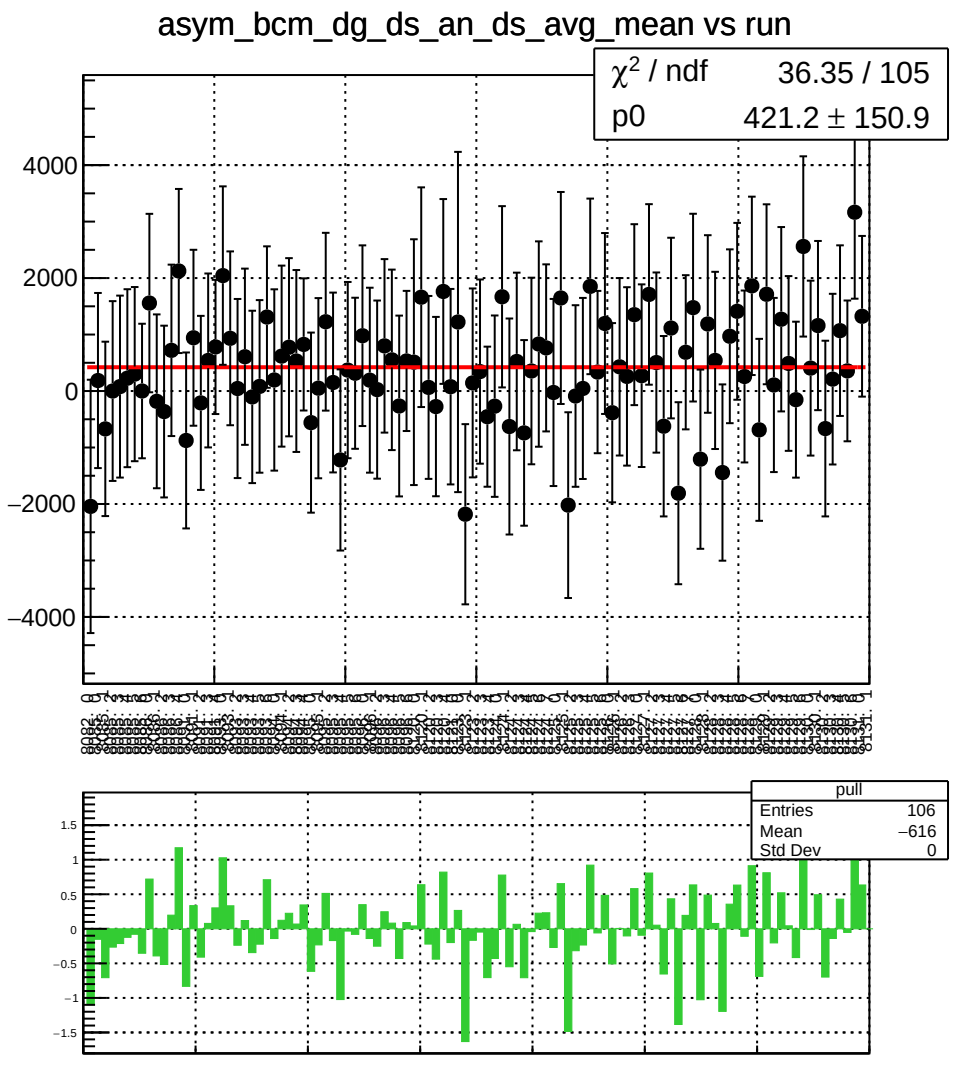

pull1D
Entries 106
Mean −0.003668
Std Dev 0.5891
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

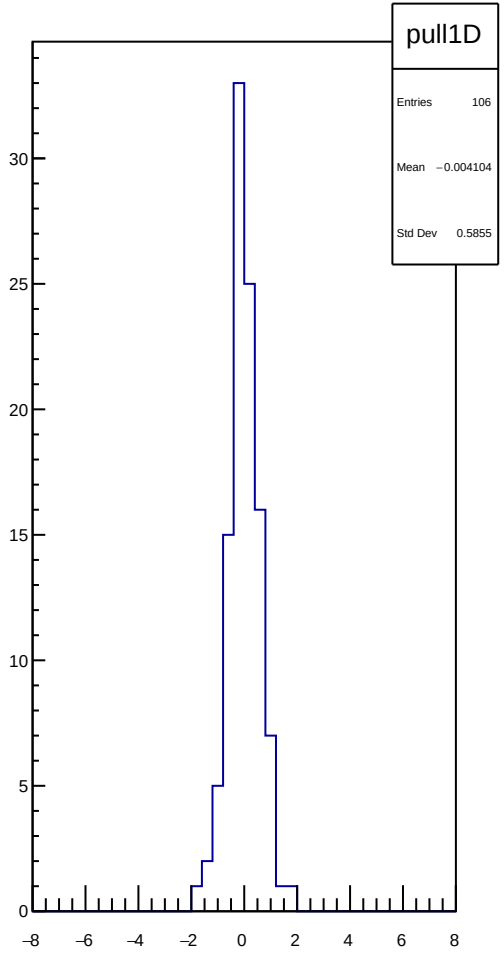

asym_bcm_dg_us_an_ds_avg_rms vs run
χ² / ndf 8529 / 105
p0 151.9 ± 0.107
300
280
260
240
220
200
180
160
140

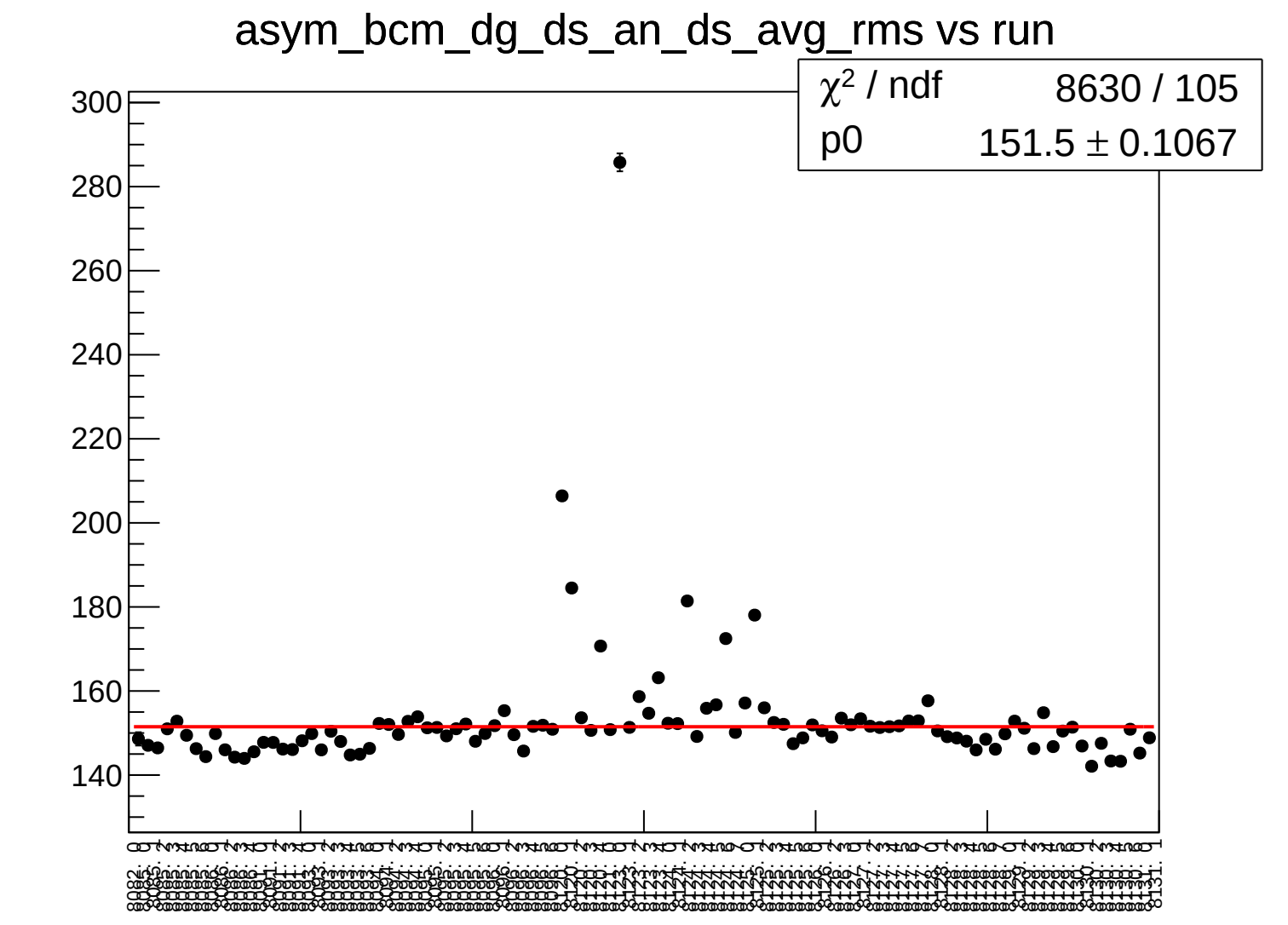

asym_bcm_dg_us_an_ds_dd_mean vs run
χ² / ndf 114.8 / 105
p0 −28.32 ± 20.99
pull
Entries 106
Mean −148.8
Std Dev 0

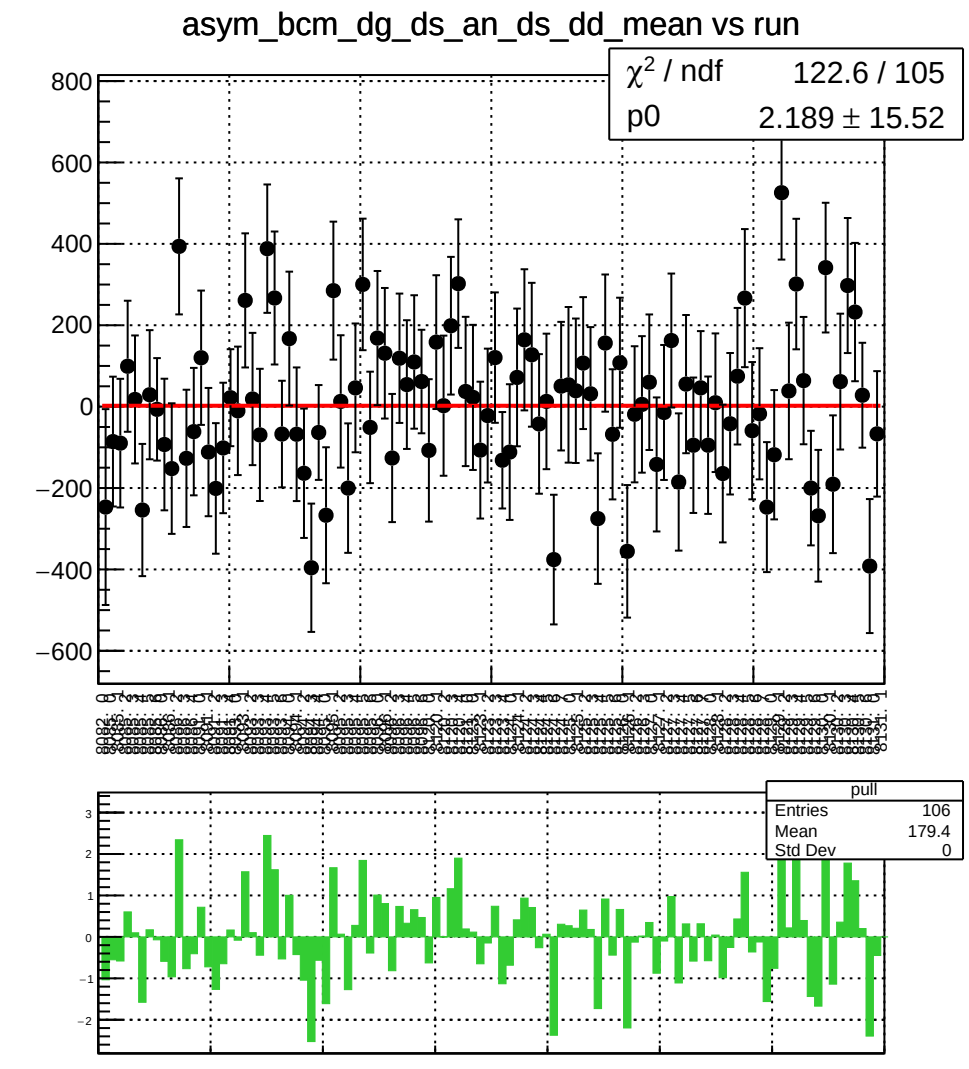

pull1D
Entries 106
Mean −0.001315
Std Dev 1.041

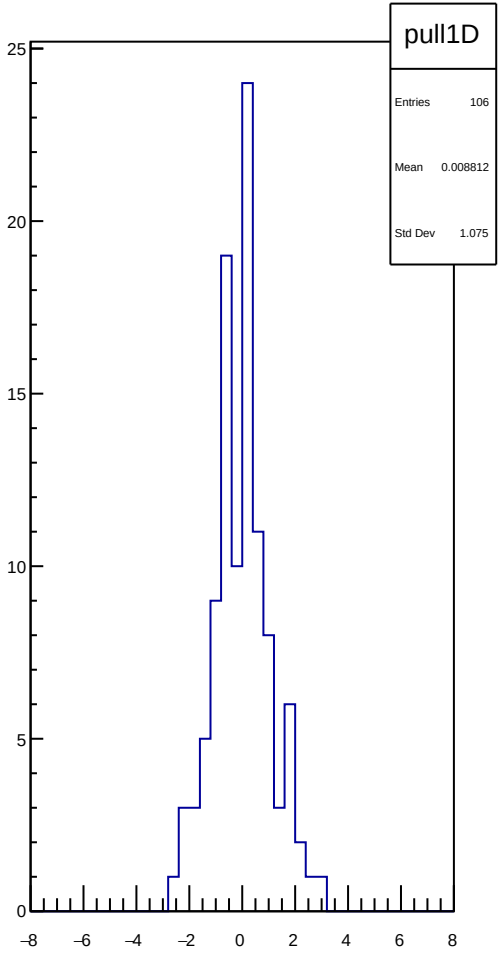

asym_bcm_dg_us_an_ds_dd_rms vs run
χ² / ndf 722.2 / 105
p0 21.1 ± 0.01484
22.5
22
21.5
21
20.5

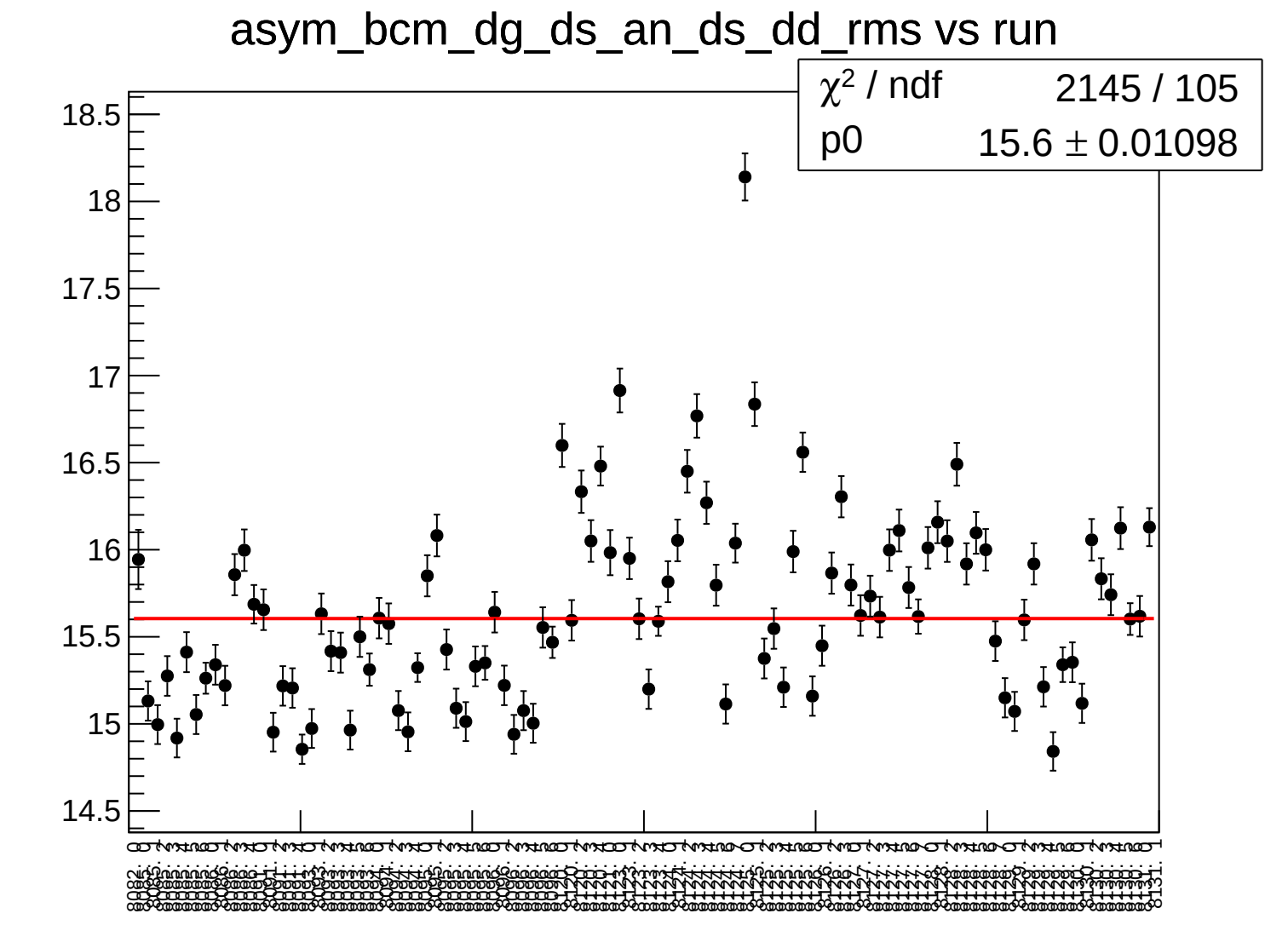

asym_bcm_dg_ds_an_ds_avg_mean vs run
χ² / ndf 36.35 / 105
p0 421.2 ± 150.9
4000
2000
0
−2000
−4000
pull
Entries 106
Mean −616
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

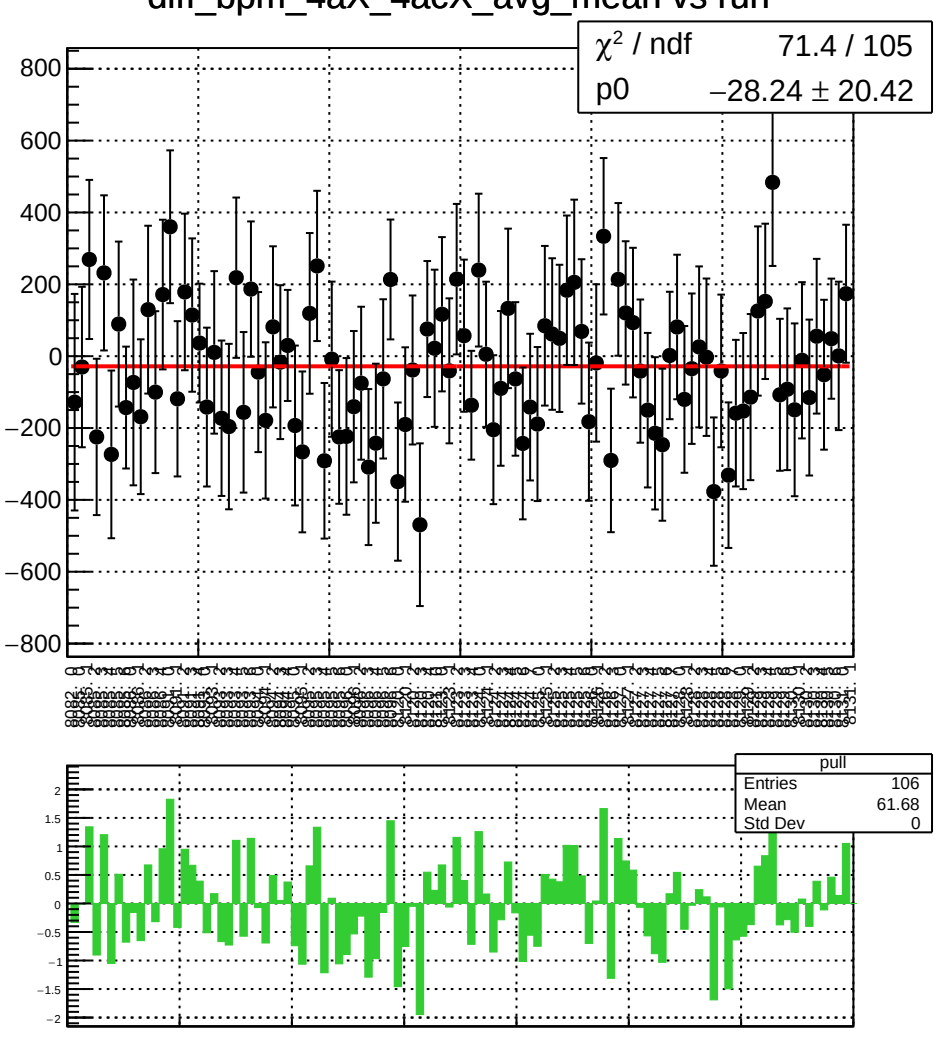

pull1D
Entries 106
Mean −0.004104
Std Dev 0.5855
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

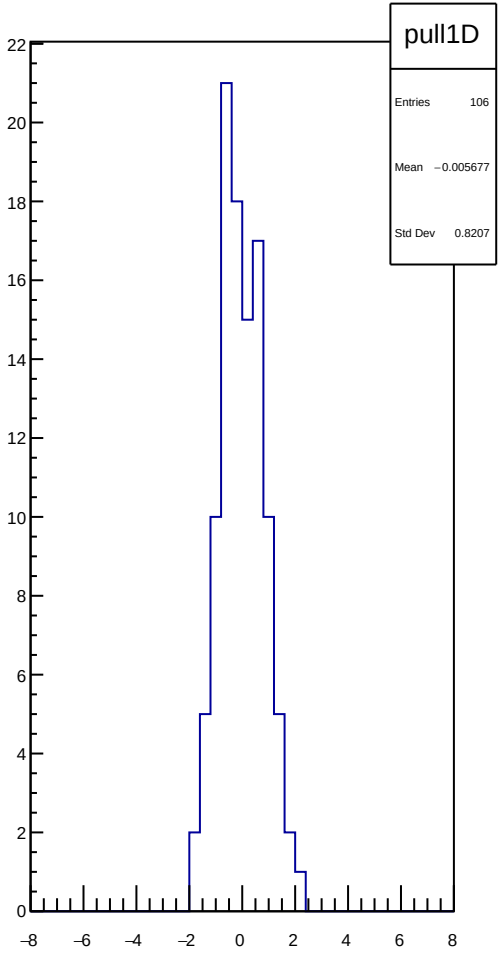

asym_bcm_dg_ds_an_ds_avg_rms vs run
χ² / ndf 8630 / 105
p0 151.5 ± 0.1067
300
280
260
240
220
200
180
160
140

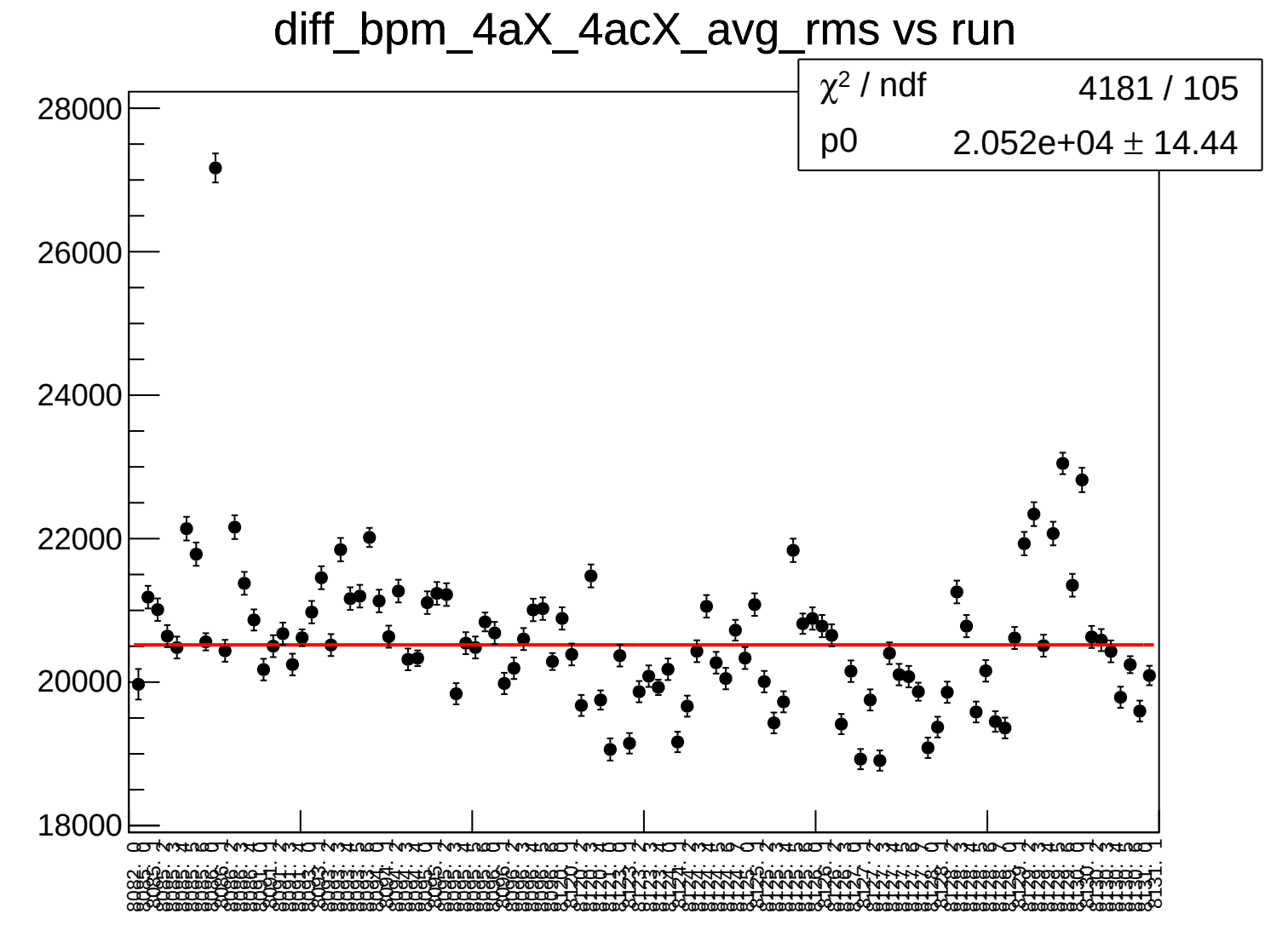

asym_bcm_dg_ds_an_ds_dd_mean vs run
χ² / ndf 122.6 / 105
p0 2.189 ± 15.52
800
600
400
200
0
−200
−400
−600
pull
Entries 106
Mean 179.4
Std Dev 0
3
2
1
0
−1
−2

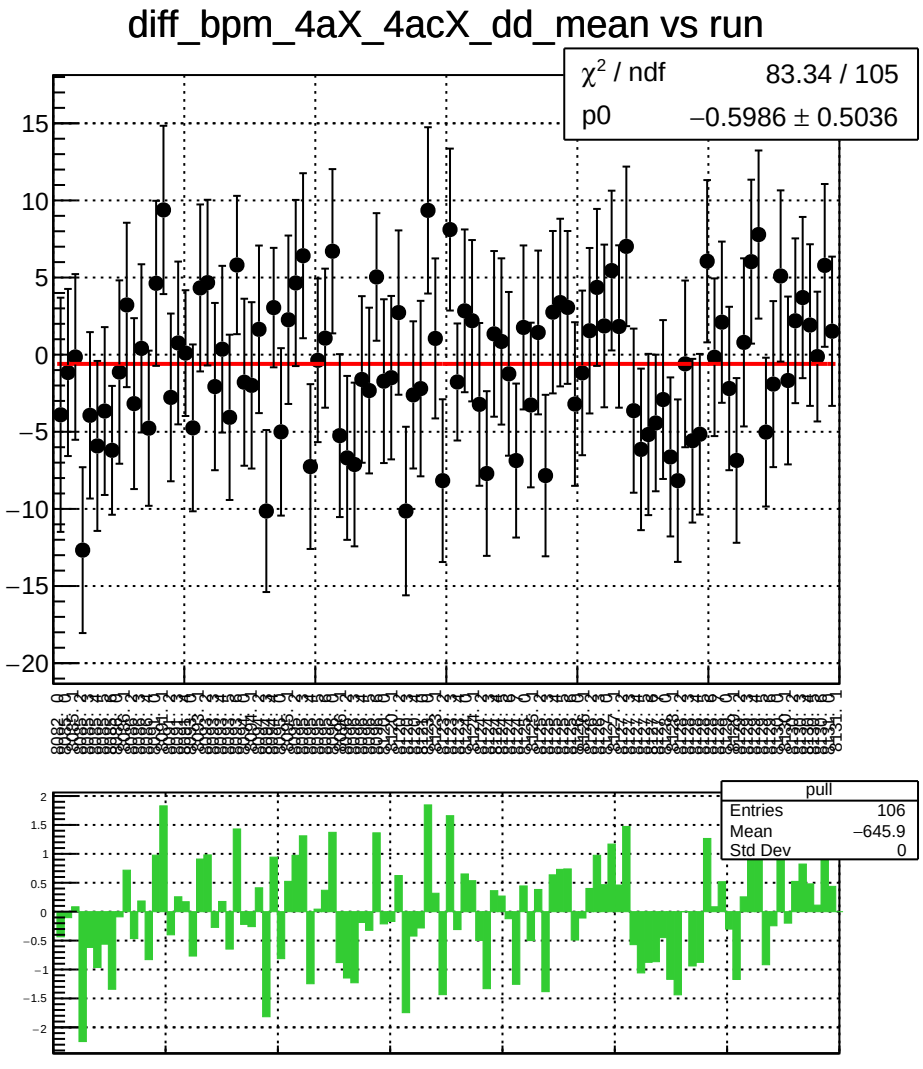

pull1D
Entries 106
Mean 0.008812
Std Dev 1.075
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

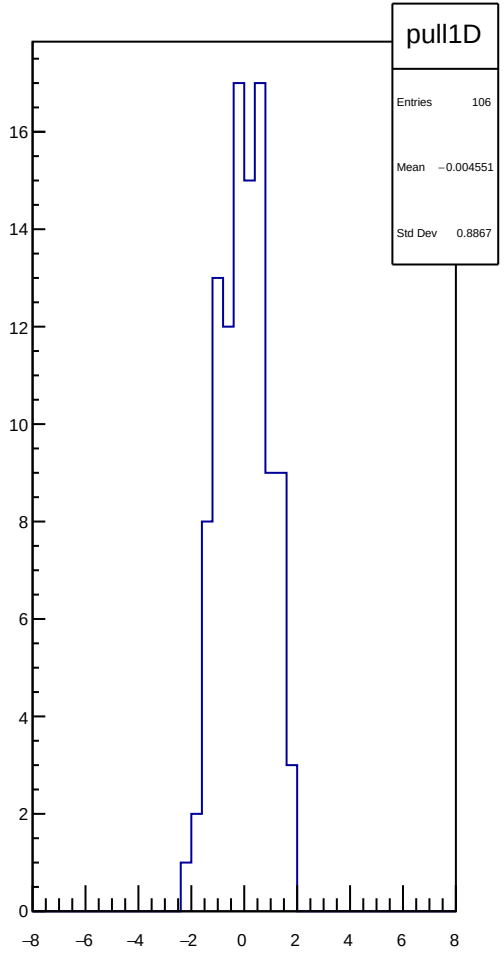

asym_bcm_dg_ds_an_ds_dd_rms vs run
χ² / ndf 2145 / 105
p0 15.6 ± 0.01098
18.5
18
17.5
17
16.5
16
15.5
15
14.5

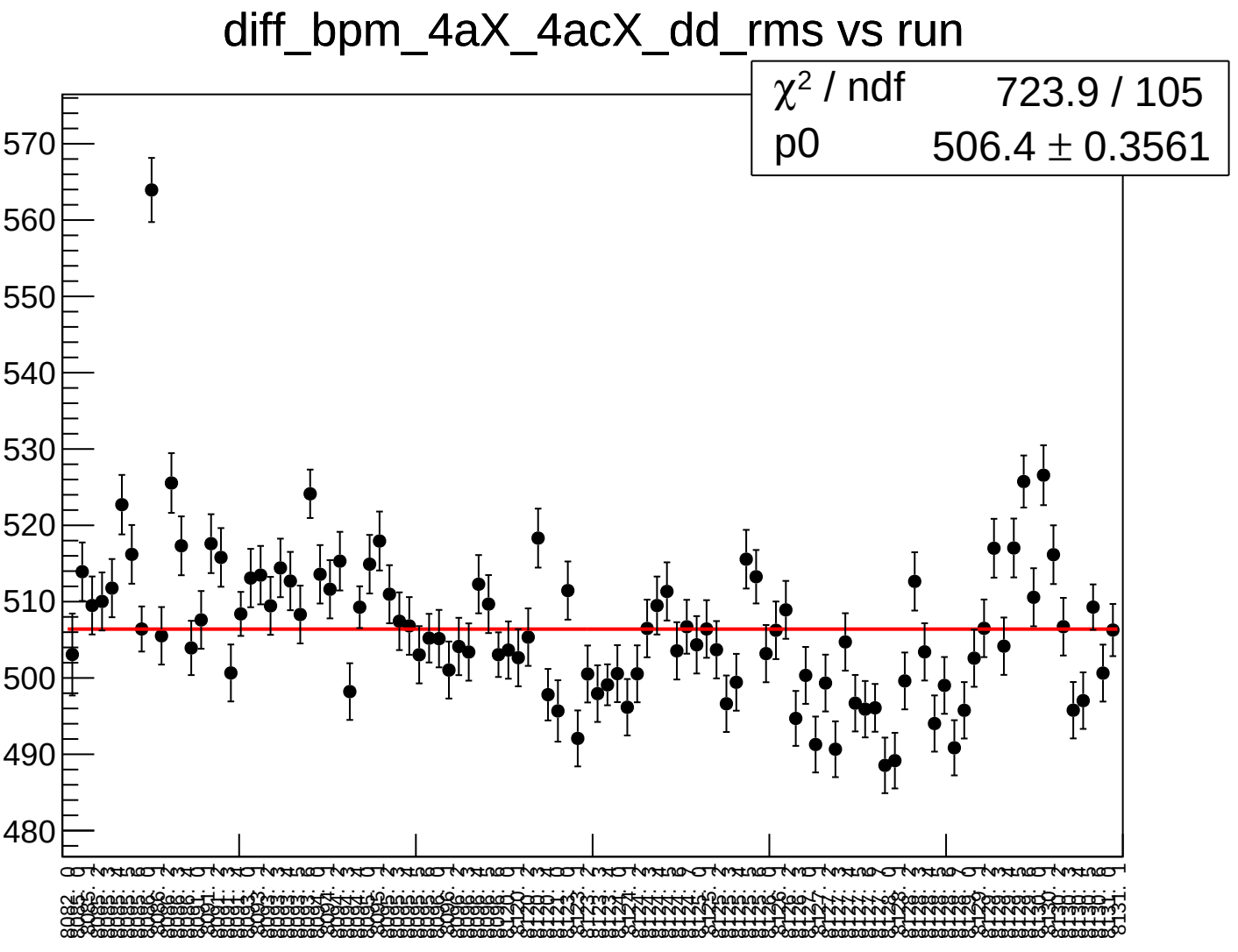

diff_bpm_4aX_4acX_avg_mean vs run
χ² / ndf 71.4 / 105
p0 −28.24 ± 20.42
pull
Entries 106
Mean 61.68
Std Dev 0

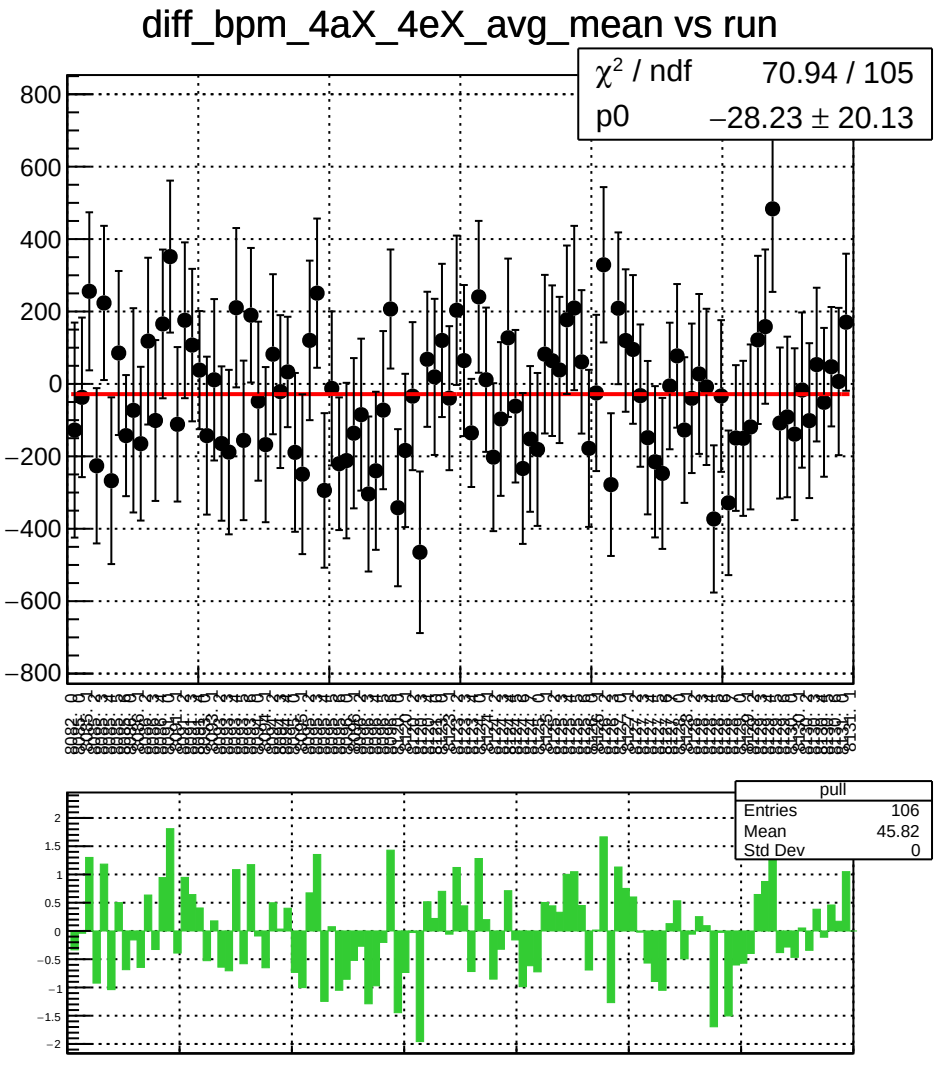

pull1D
Entries 106
Mean −0.005677
Std Dev 0.8207

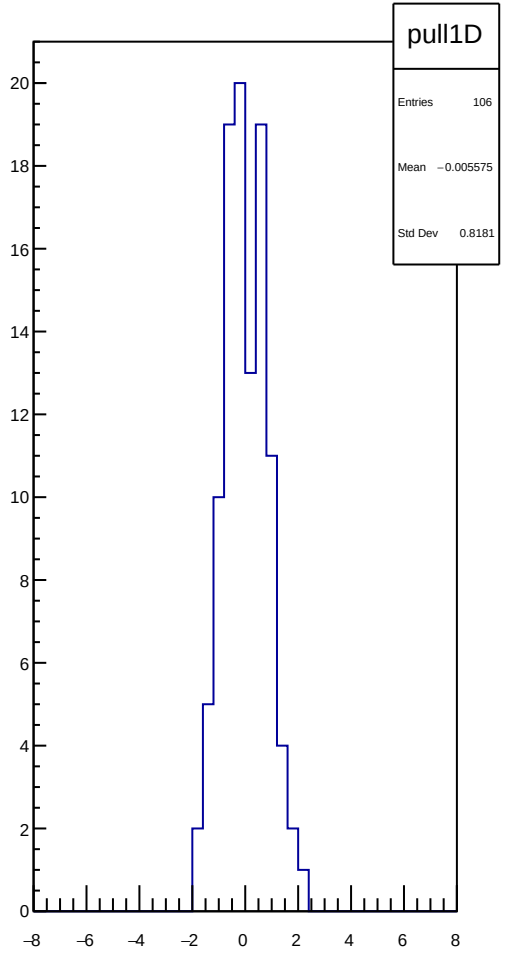

diff_bpm_4aX_4acX_avg_rms vs run
χ² / ndf 4181 / 105
p0 2.052e+04 ± 14.44
28000
26000
24000
22000
20000
18000

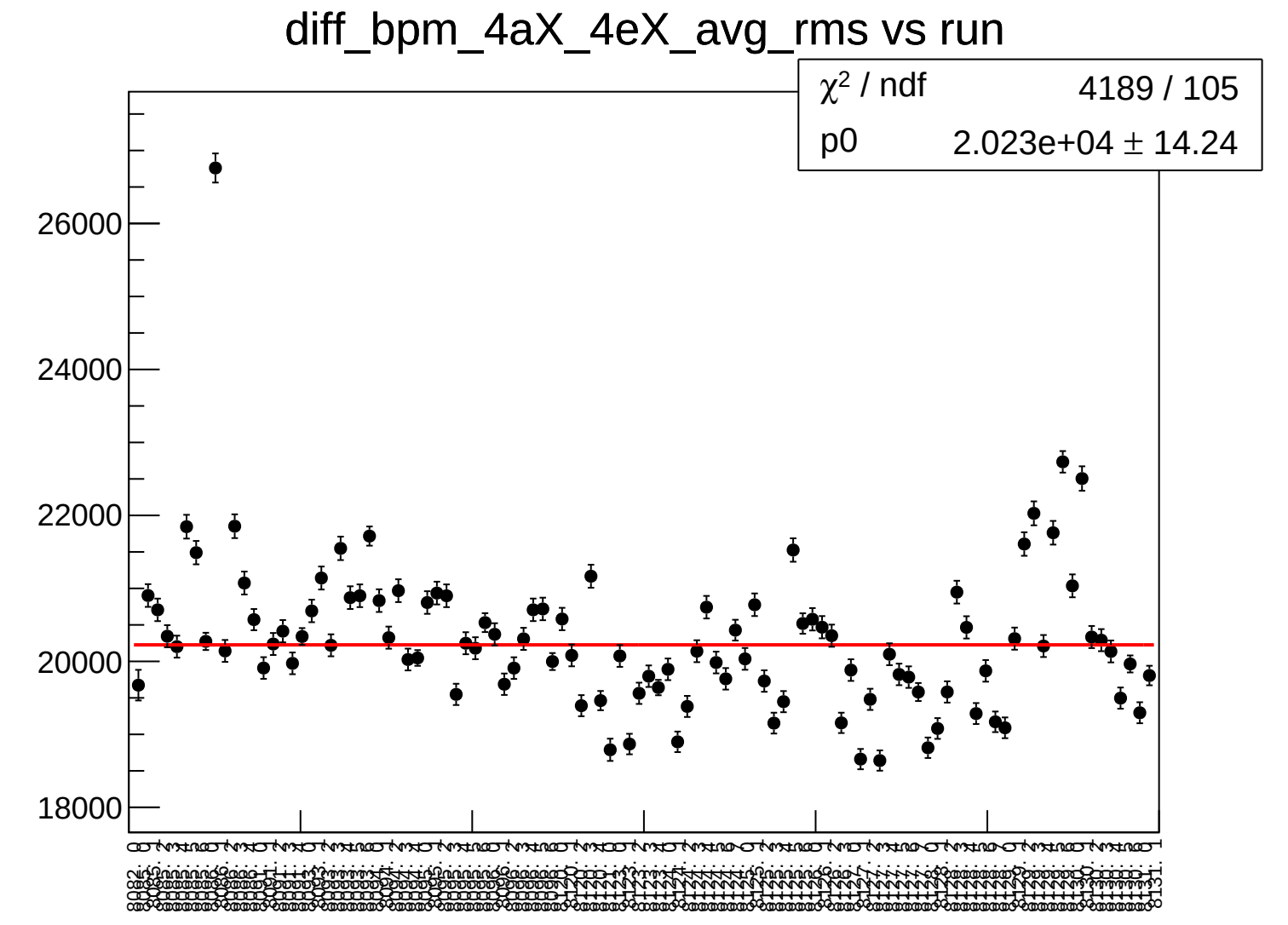

diff_bpm_4aX_4acX_dd_mean vs run
χ² / ndf 83.34 / 105
p0 −0.5986 ± 0.5036
pull
Entries 106
Mean −645.9
Std Dev 0

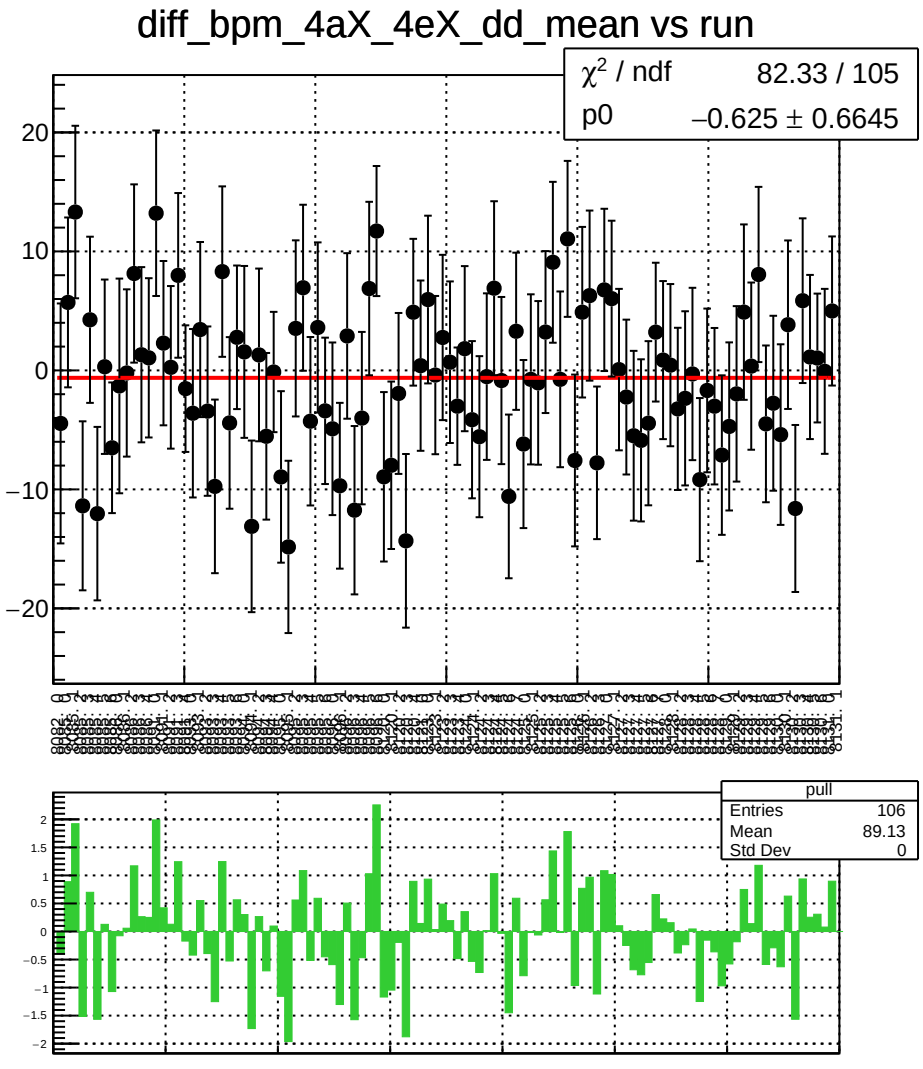

pull1D
Entries 106
Mean −0.004551
Std Dev 0.8867

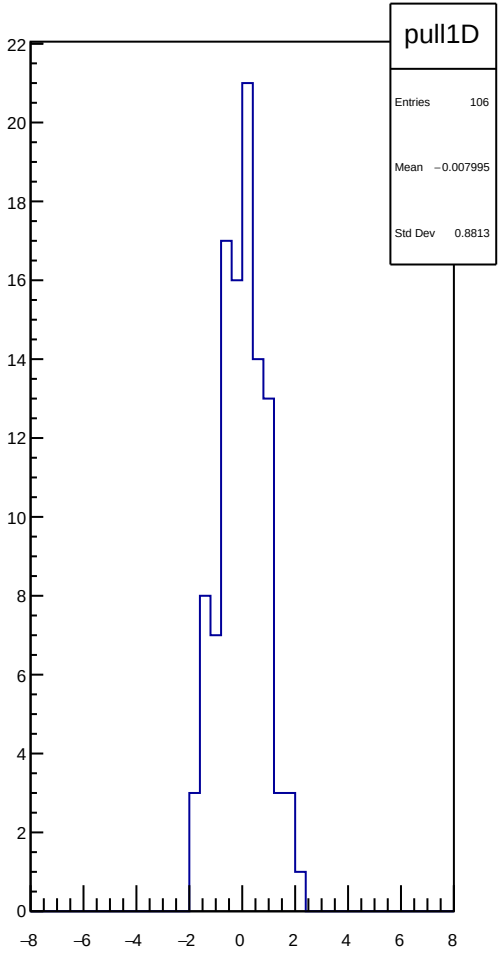

diff_bpm_4aX_4acX_dd_rms vs run
χ² / ndf 723.9 / 105
p0 506.4 ± 0.3561
570
560
550
540
530
520
510
500
490
480

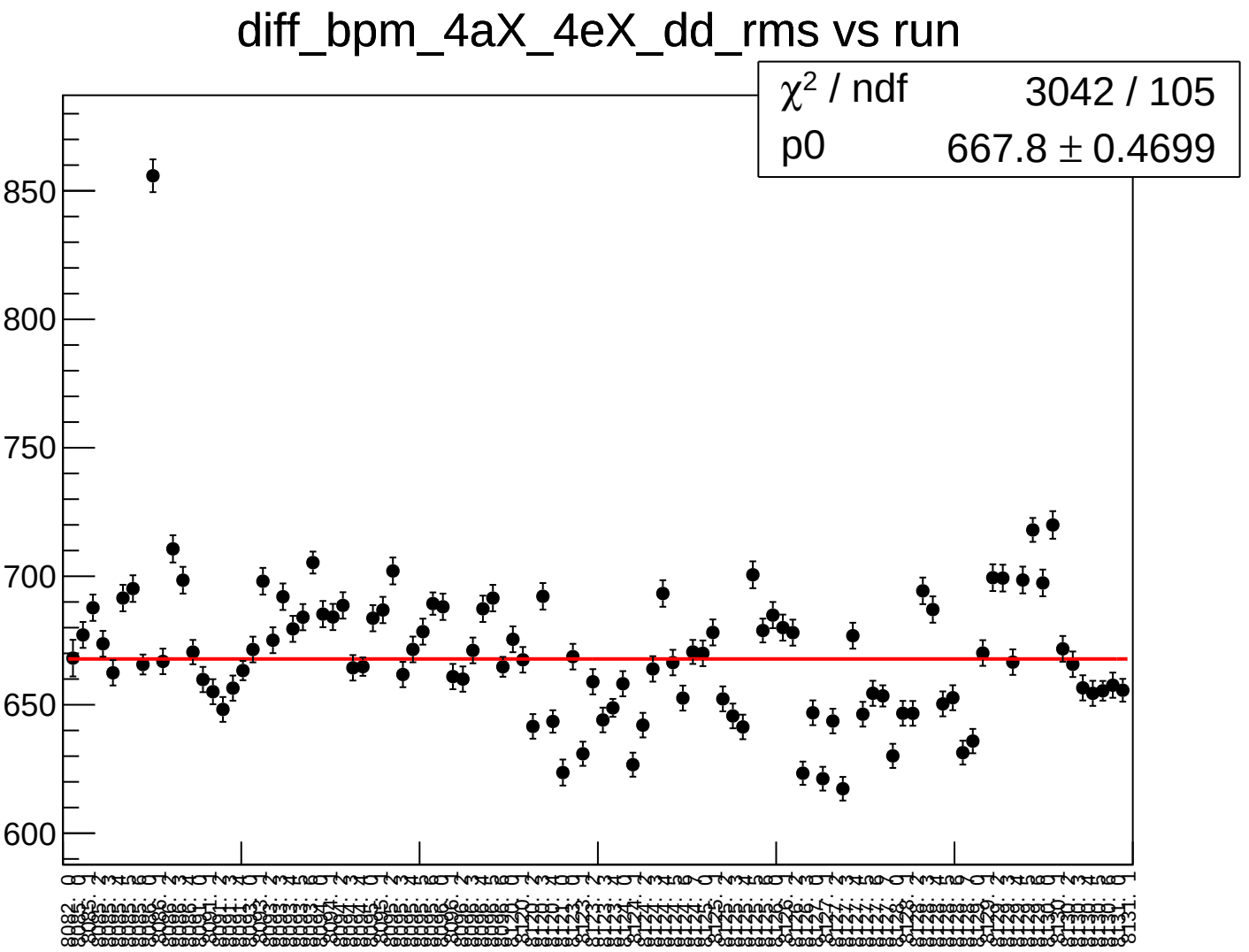

diff_bpm_4aX_4eX_avg_mean vs run
χ² / ndf 70.94 / 105
p0 −28.23 ± 20.13
pull
Entries 106
Mean 45.82
Std Dev 0

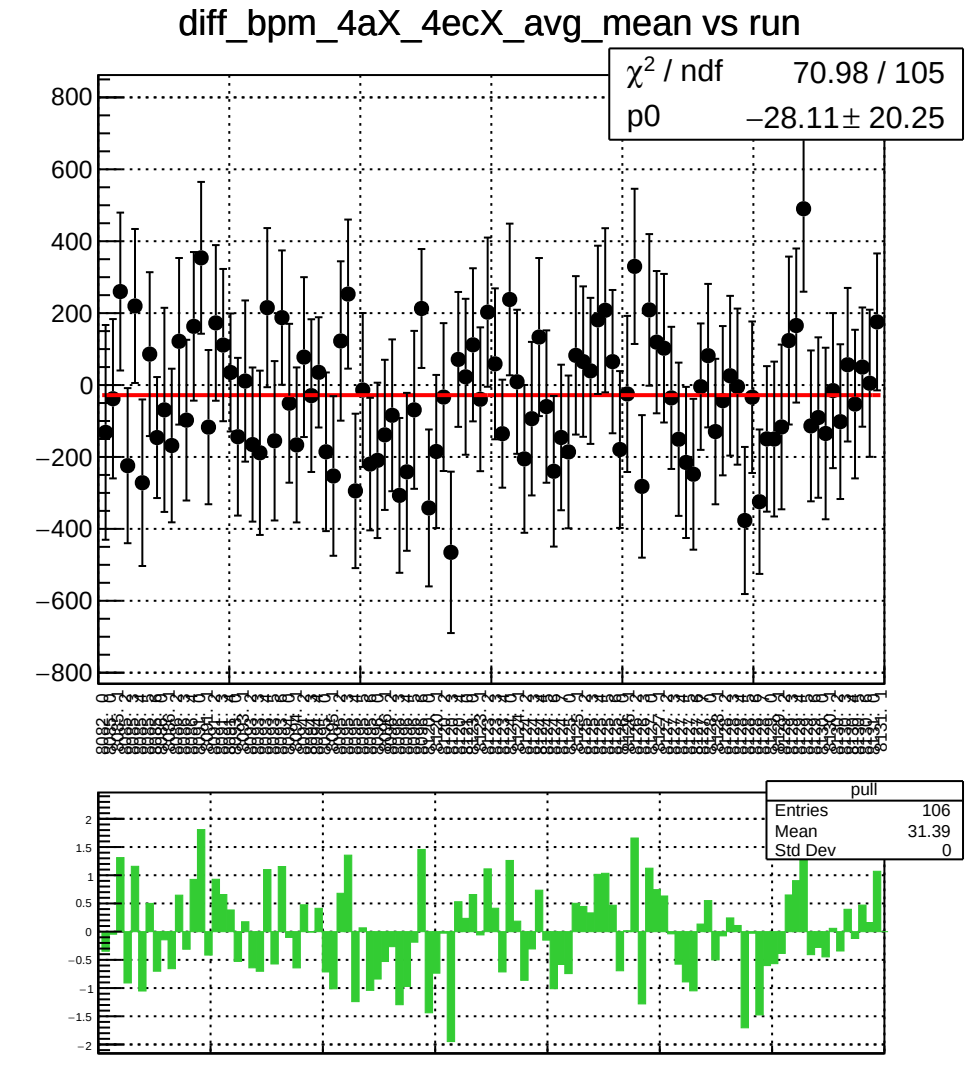

pull1D
Entries 106
Mean −0.005575
Std Dev 0.8181

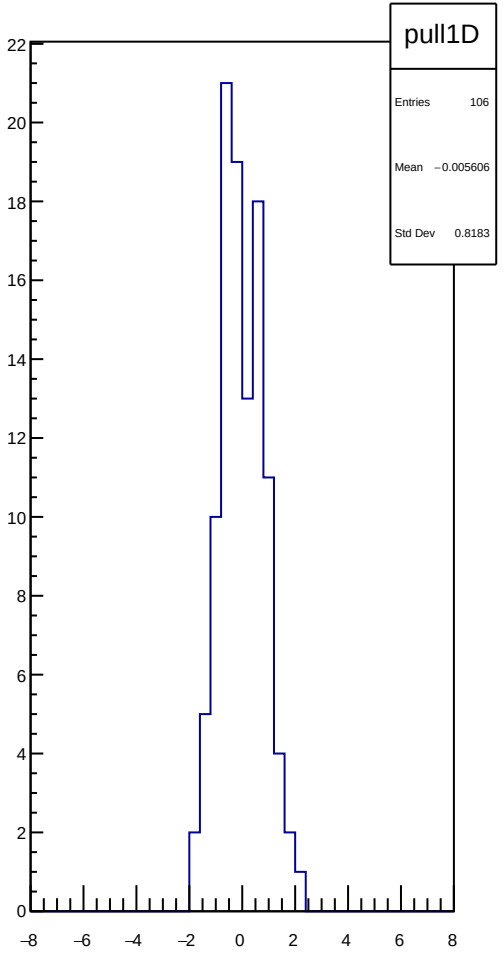

diff_bpm_4aX_4eX_avg_rms vs run
χ² / ndf 4189 / 105
p0 2.023e+04 ± 14.24
26000
24000
22000
20000
18000

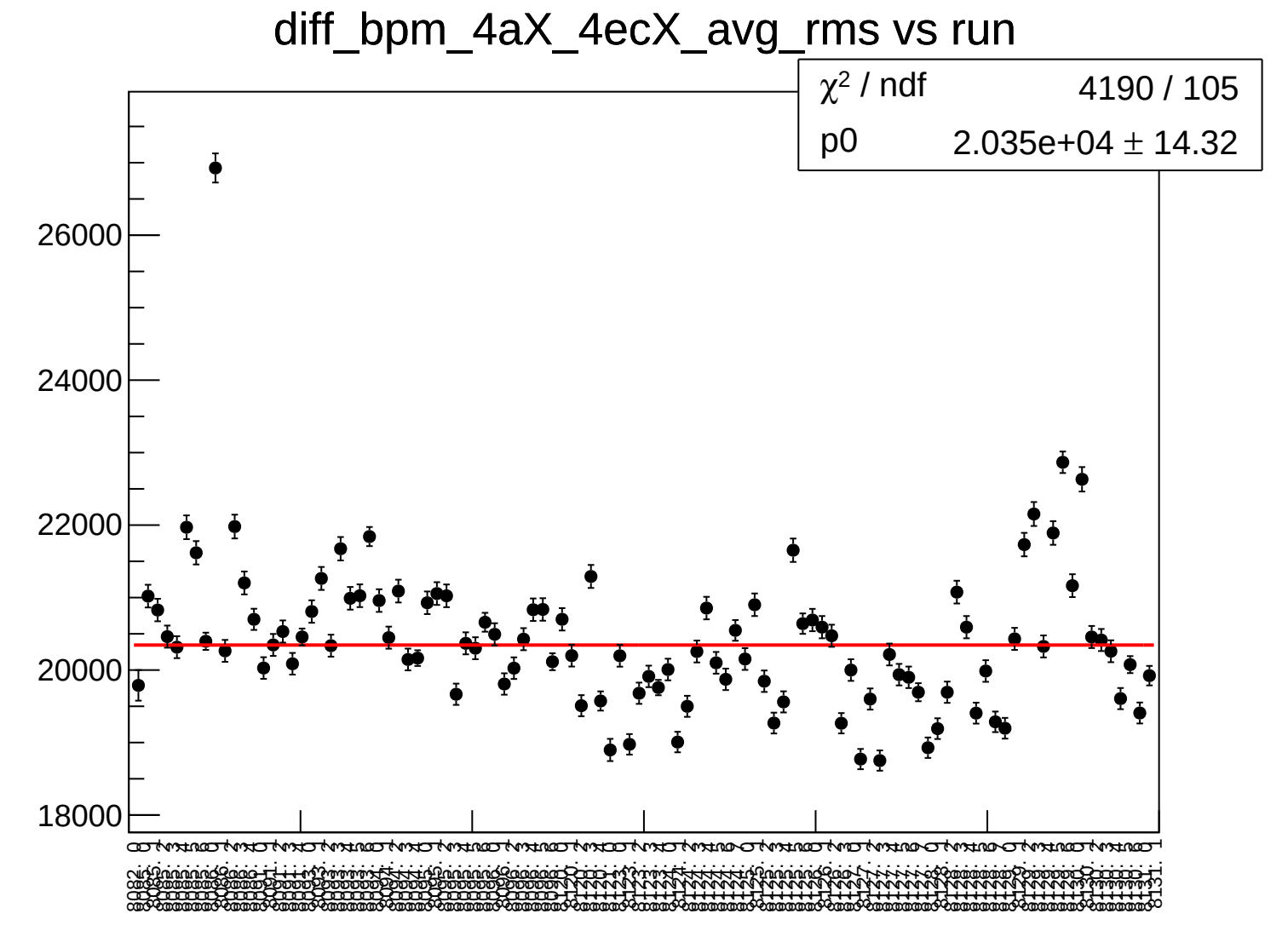

diff_bpm_4aX_4eX_dd_mean vs run
χ² / ndf 82.33 / 105
p0 −0.625 ± 0.6645
pull
Entries 106
Mean 89.13
Std Dev 0

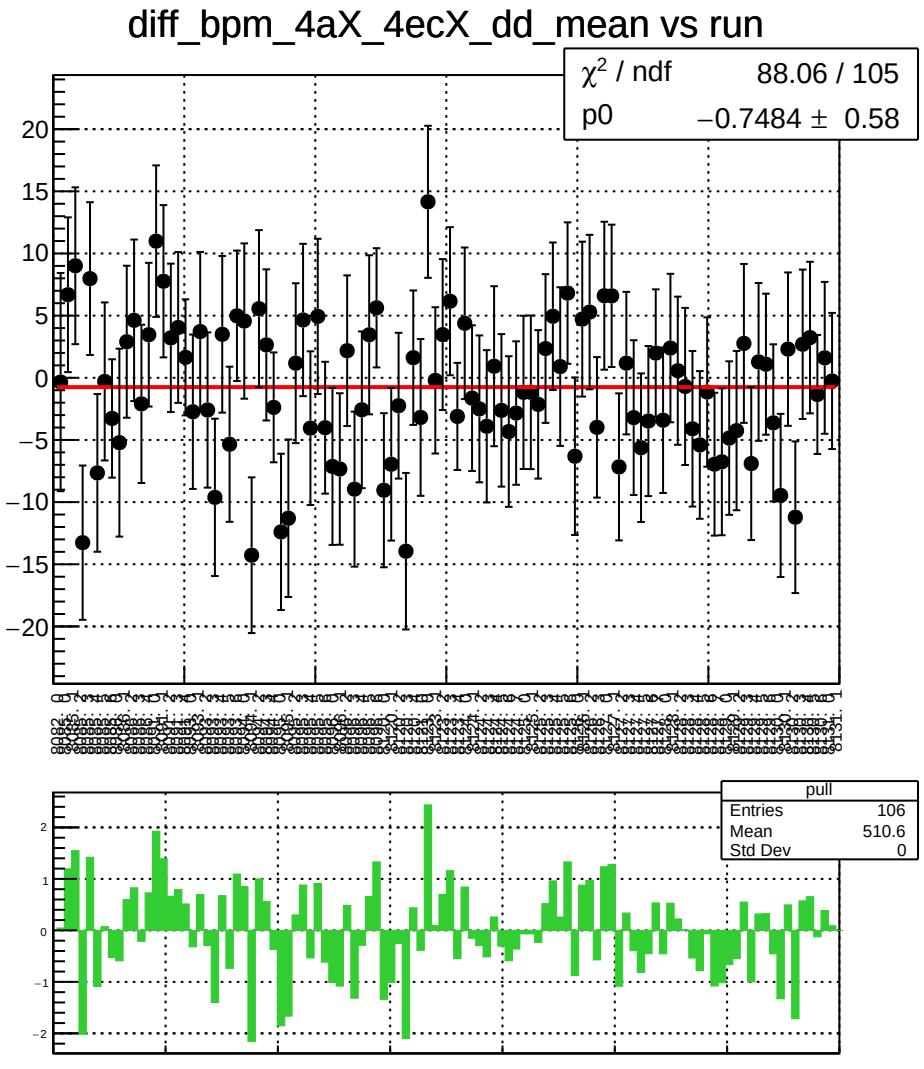

pull1D
Entries 106
Mean −0.007995
Std Dev 0.8813

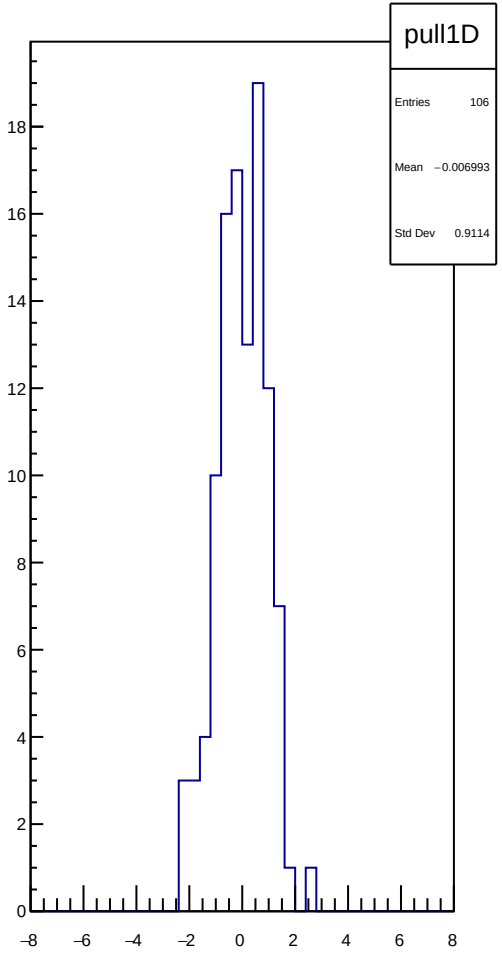

diff_bpm_4aX_4eX_dd_rms vs run
χ² / ndf 3042 / 105
p0 667.8 ± 0.4699
850
800
750
700
650
600

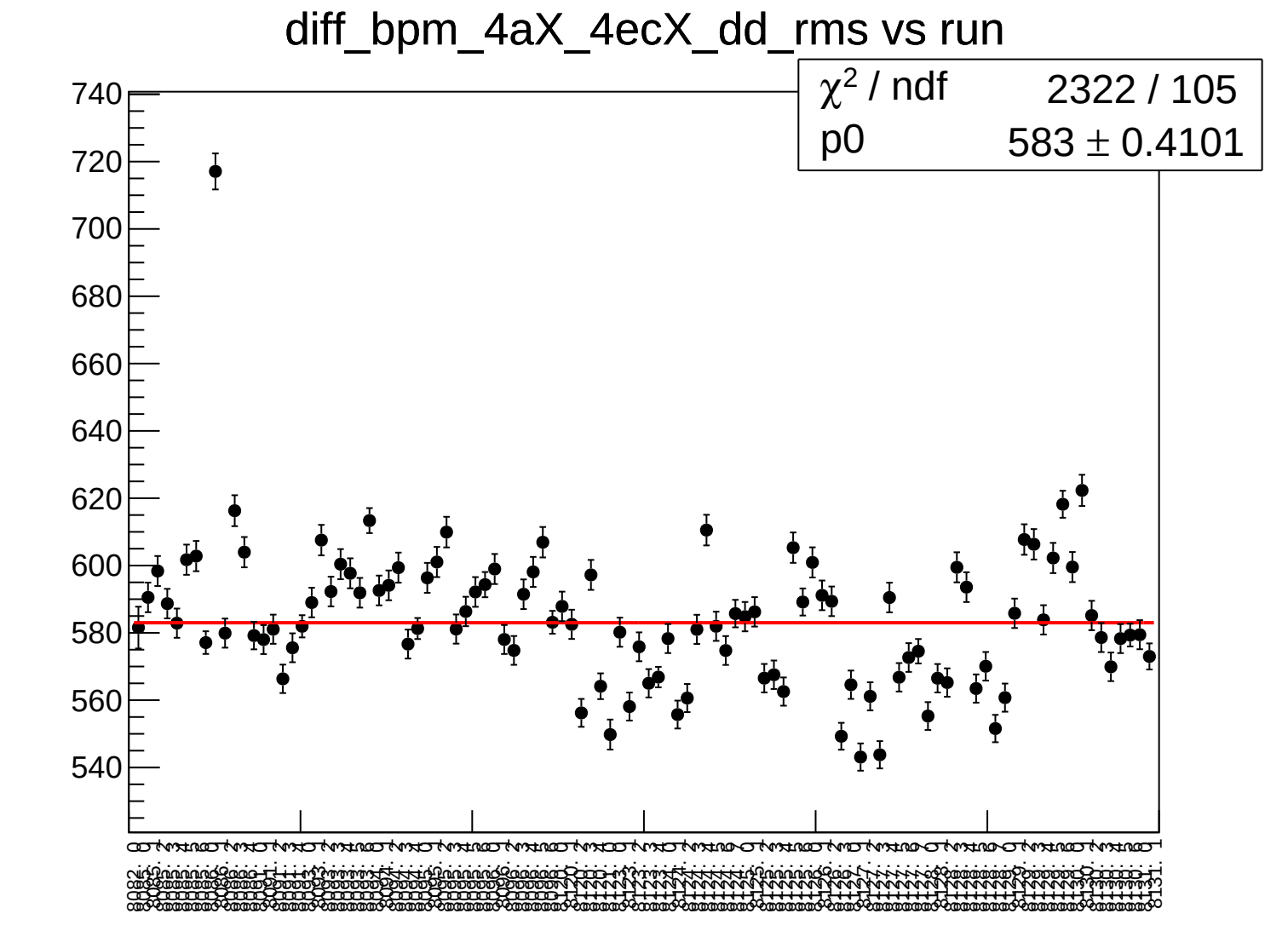

diff_bpm_4aX_4ecX_avg_mean vs run
χ² / ndf 70.98 / 105
p0 −28.11± 20.25
pull
Entries 106
Mean 31.39
Std Dev 0

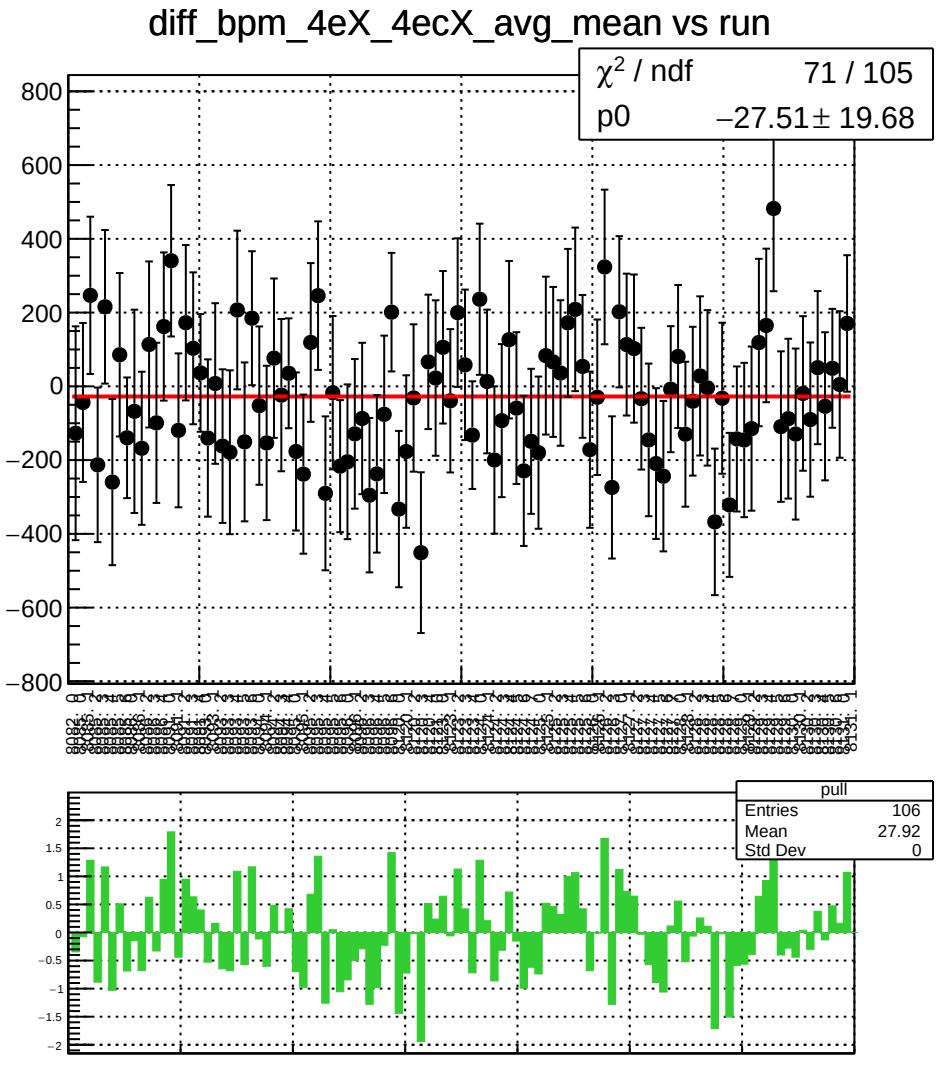

pull1D
Entries 106
Mean −0.005606
Std Dev 0.8183

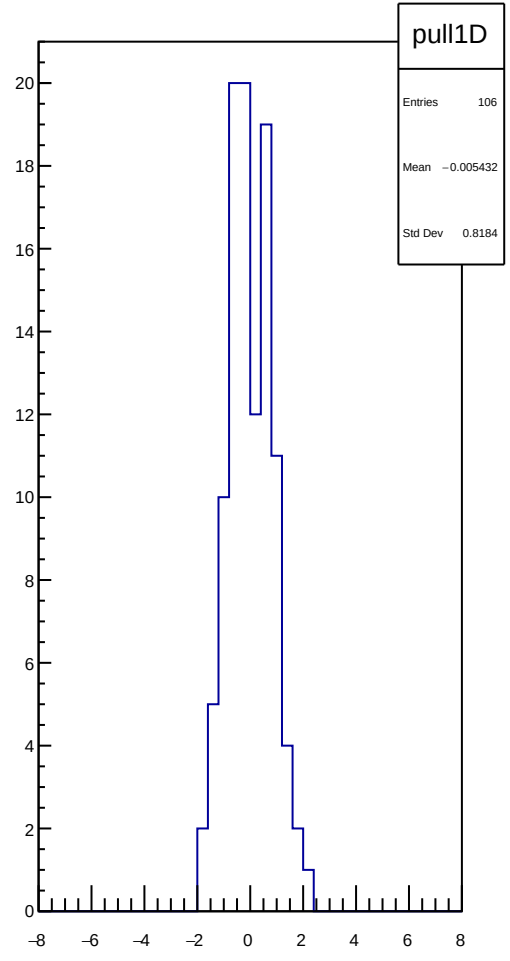

diff_bpm_4aX_4ecX_avg_rms vs run
χ² / ndf 4190 / 105
p0 2.035e+04 ± 14.32
26000
24000
22000
20000
18000

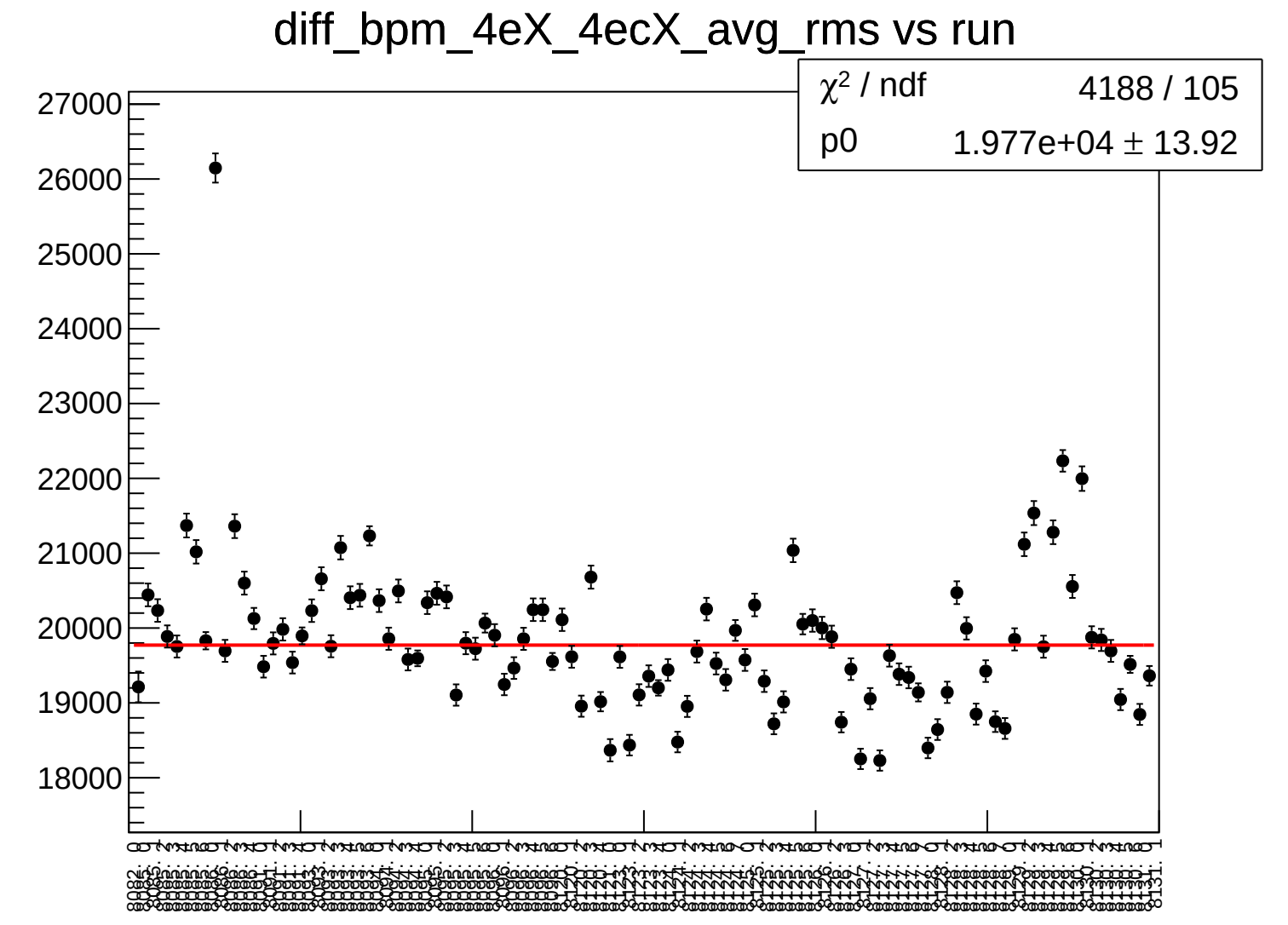

diff_bpm_4aX_4ecX_dd_mean vs run
χ² / ndf 88.06 / 105
p0 −0.7484 ± 0.58
pull
Entries 106
Mean 510.6
Std Dev 0

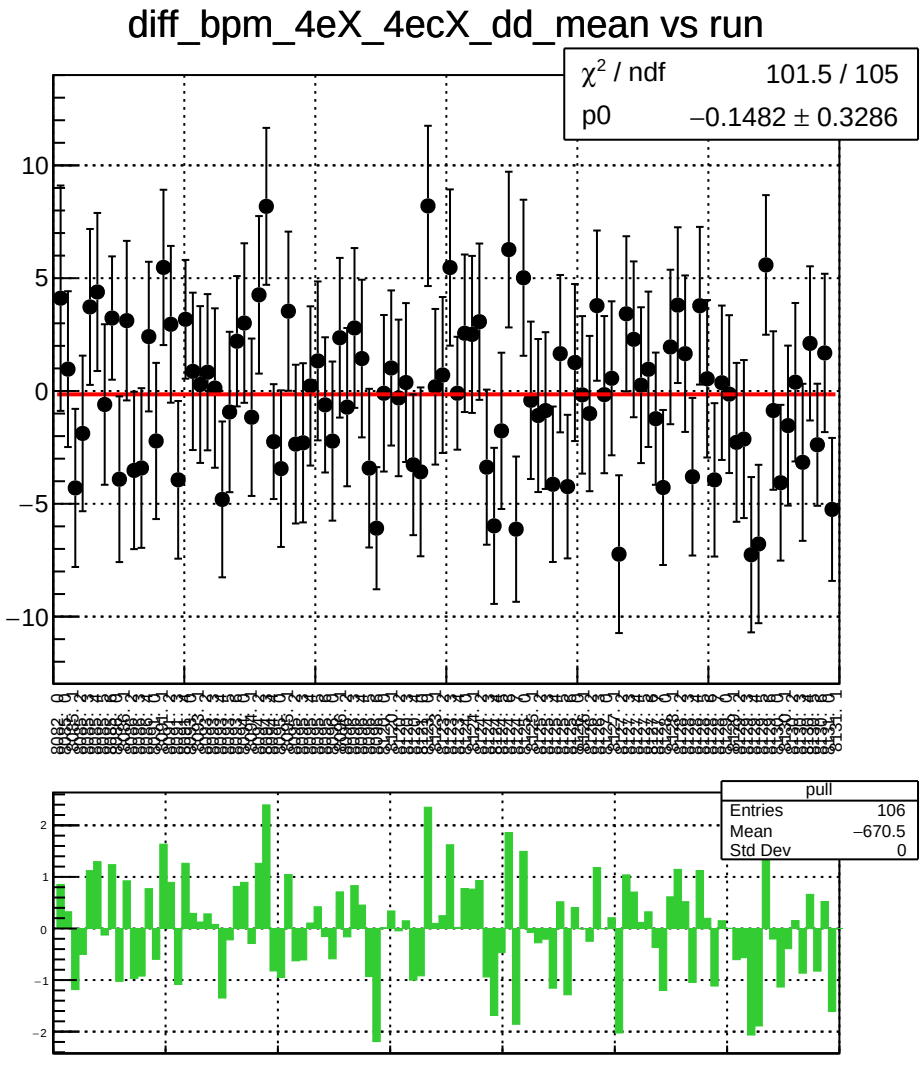

pull1D
Entries 106
Mean −0.006993
Std Dev 0.9114

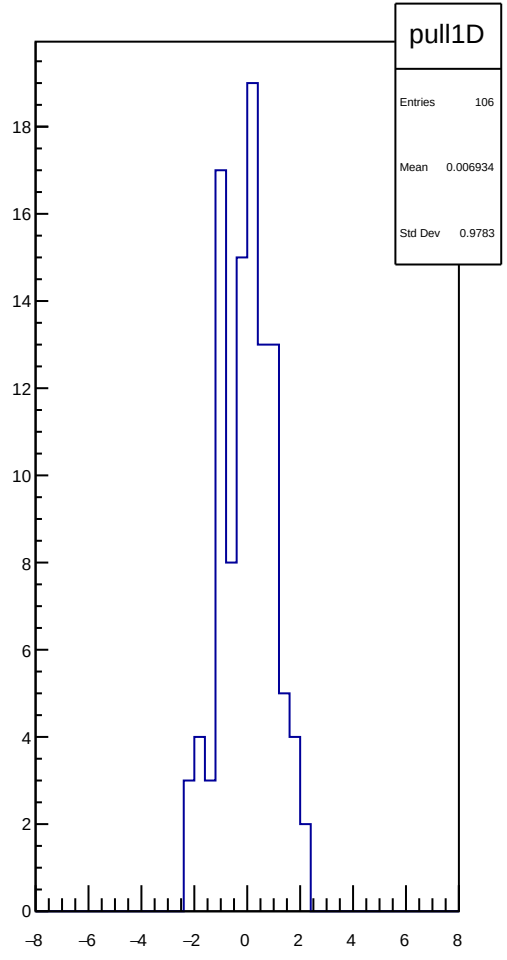

diff_bpm_4aX_4ecX_dd_rms vs run
$\chi^2$ / ndf 2322 / 105
p0 583 ± 0.4101
740
720
700
680
660
640
620
600
580
560
540

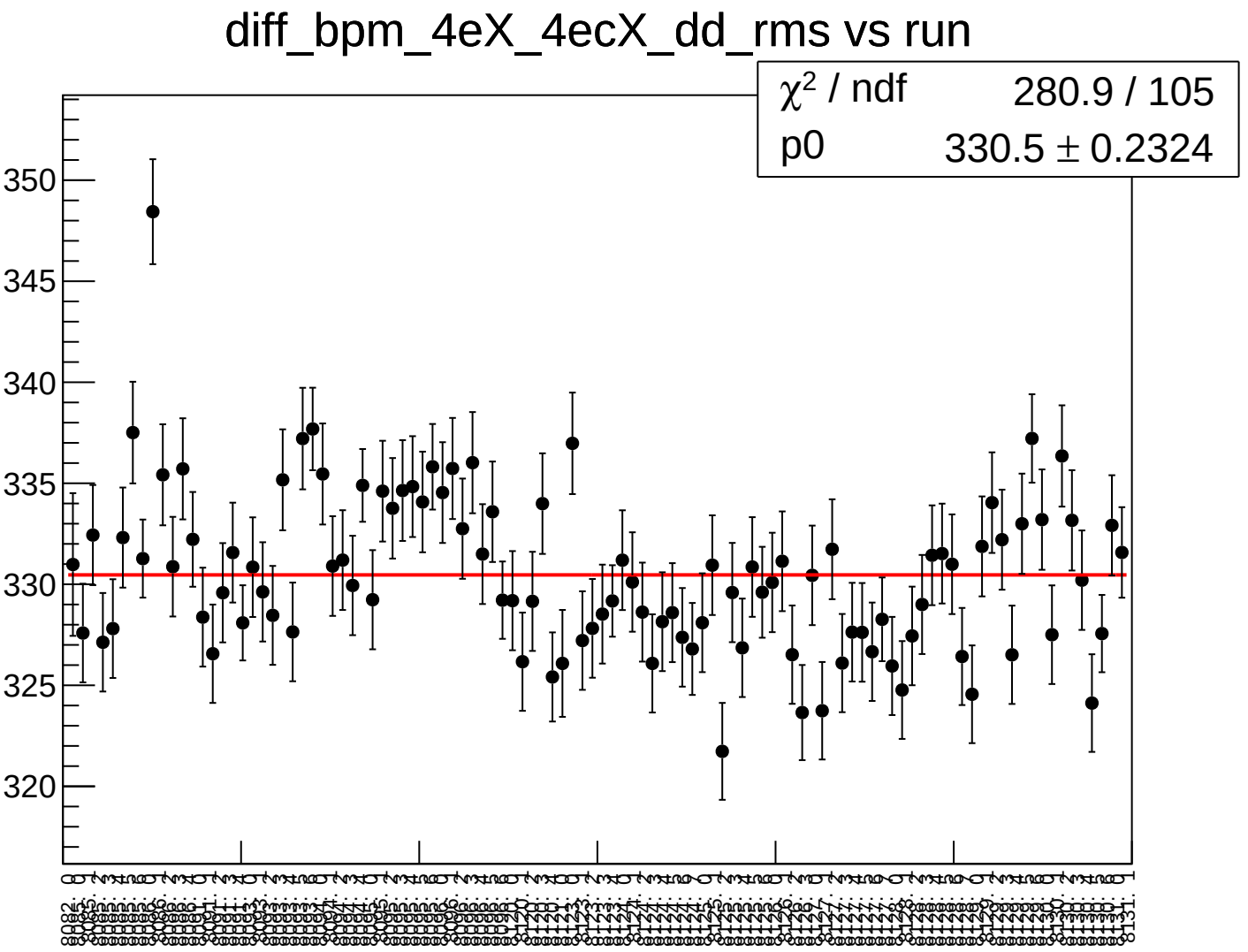

diff_bpm_4eX_4ecX_avg_mean vs run
χ² / ndf 71 / 105
p0 −27.51± 19.68
pull
Entries 106
Mean 27.92
Std Dev 0

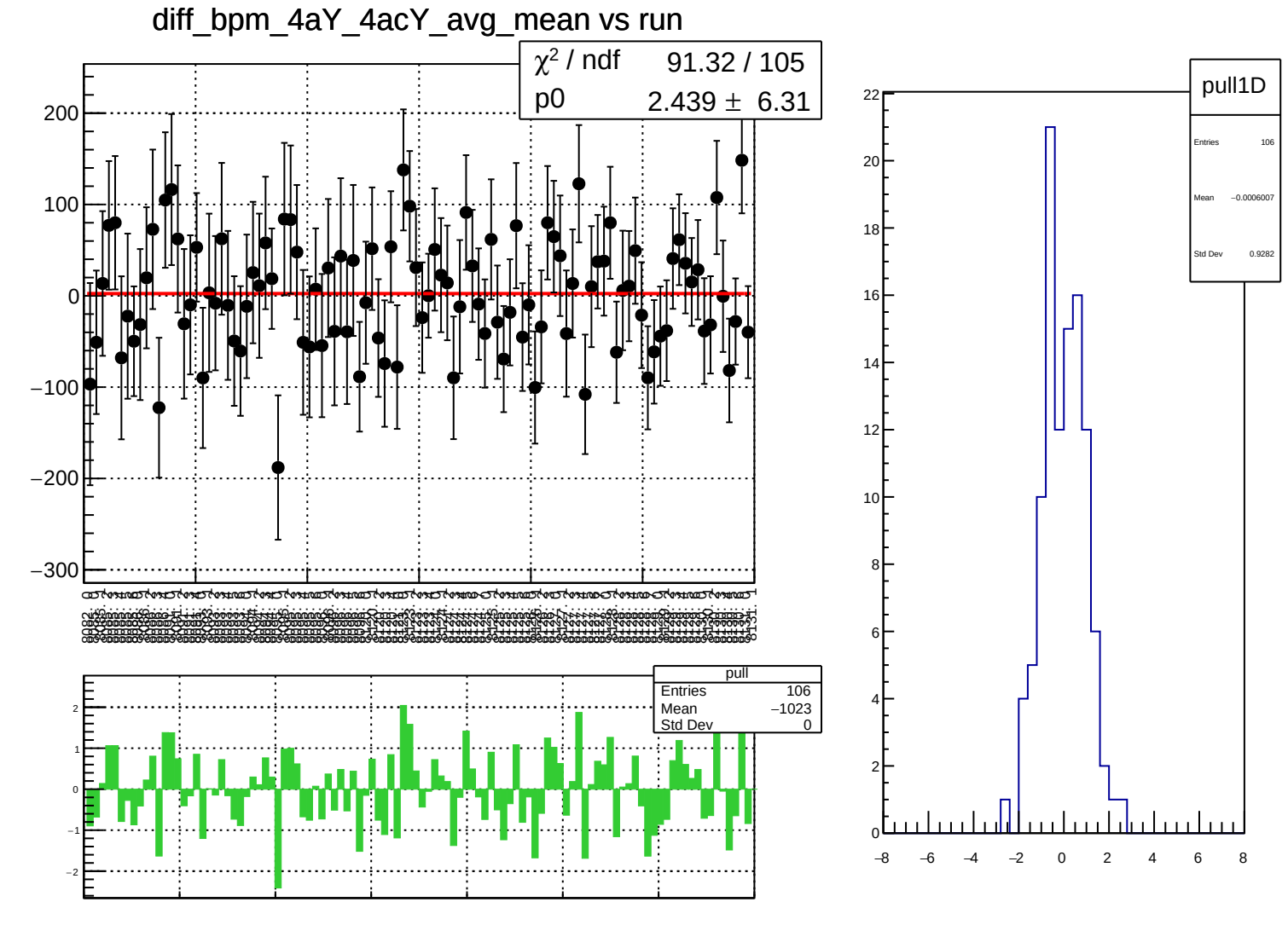

pull1D
Entries 106
Mean −0.005432
Std Dev 0.8184

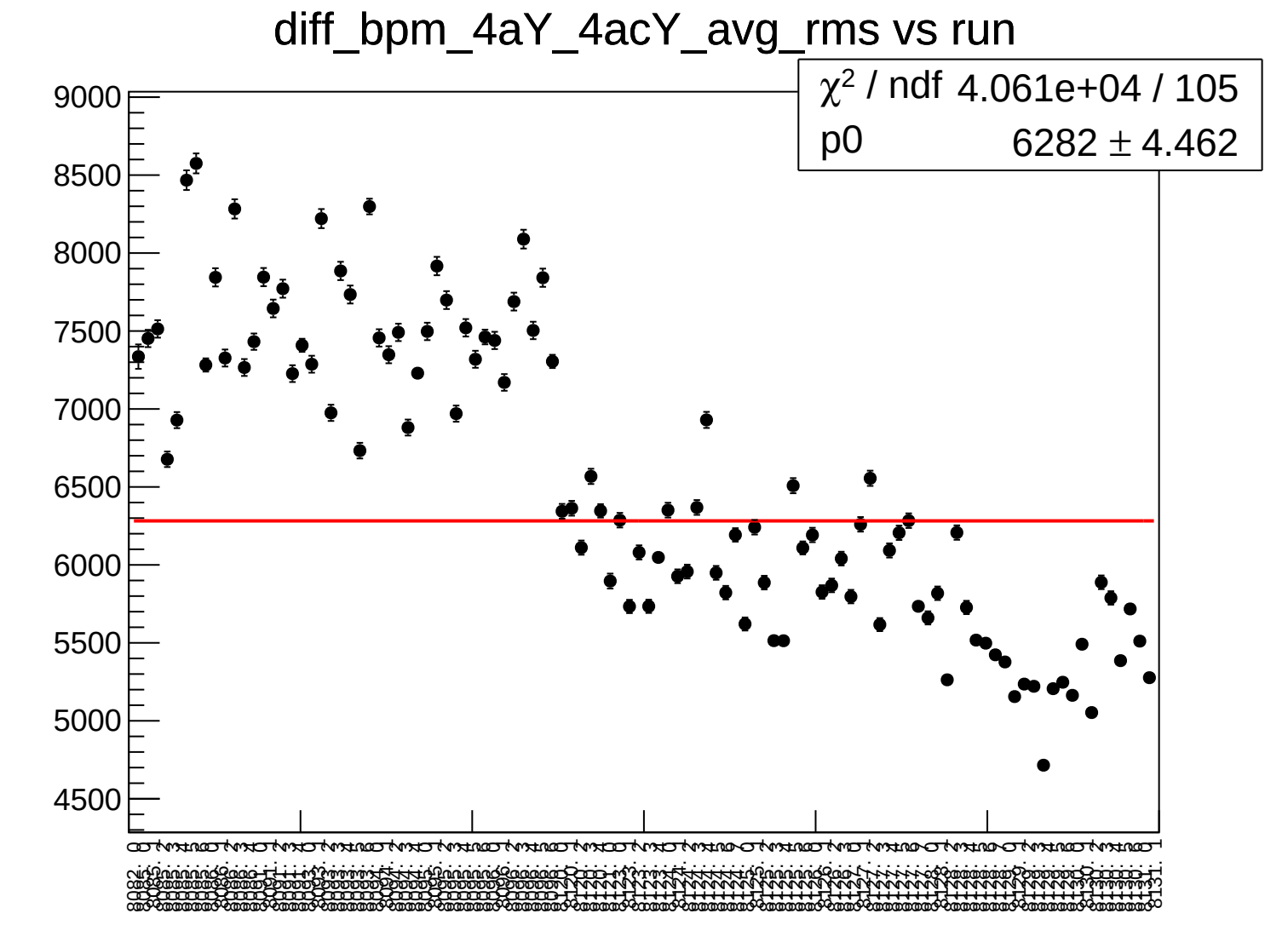

diff_bpm_4eX_4ecX_avg_rms vs run
χ² / ndf 4188 / 105
p0 1.977e+04 ± 13.92
27000
26000
25000
24000
23000
22000
21000
20000
19000
18000

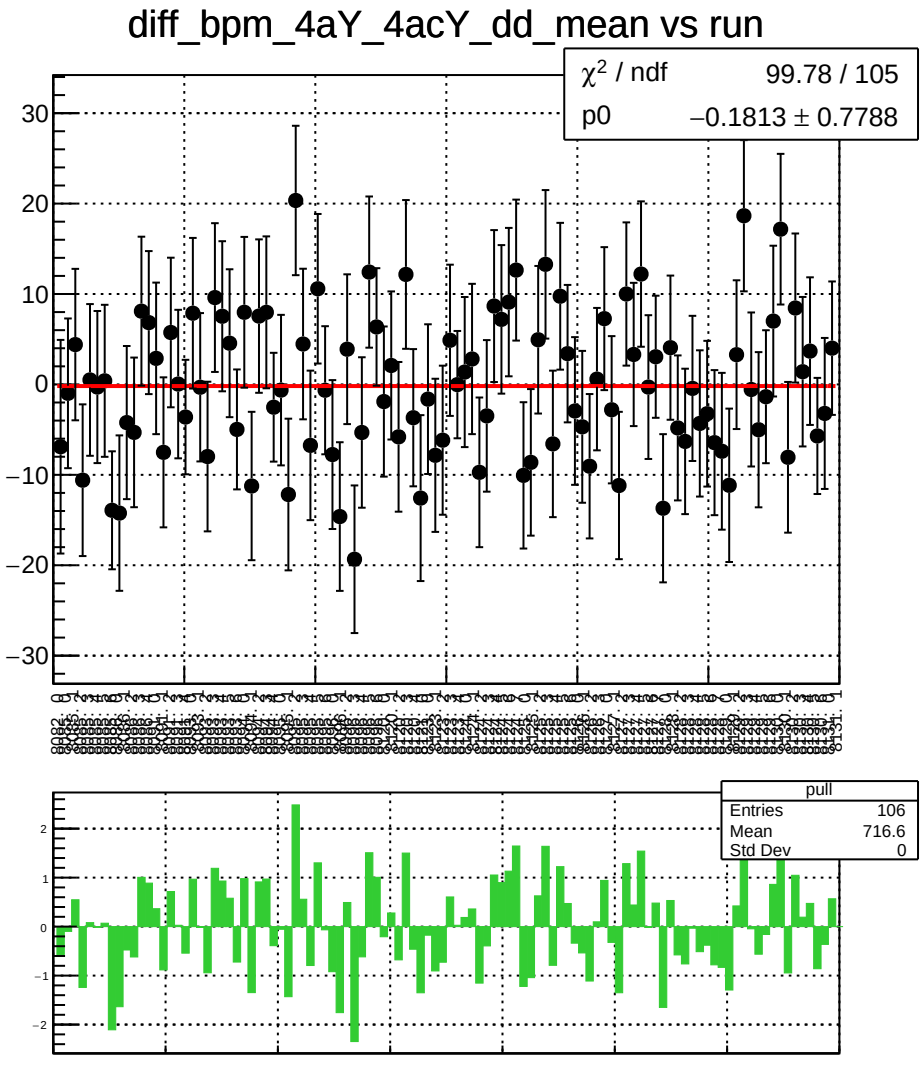

diff_bpm_4eX_4ecX_dd_mean vs run
χ² / ndf 101.5 / 105
p0 −0.1482 ± 0.3286
10
5
0
−5
−10
pull
Entries 106
Mean −670.5
Std Dev 0
2
1
0
−1
−2

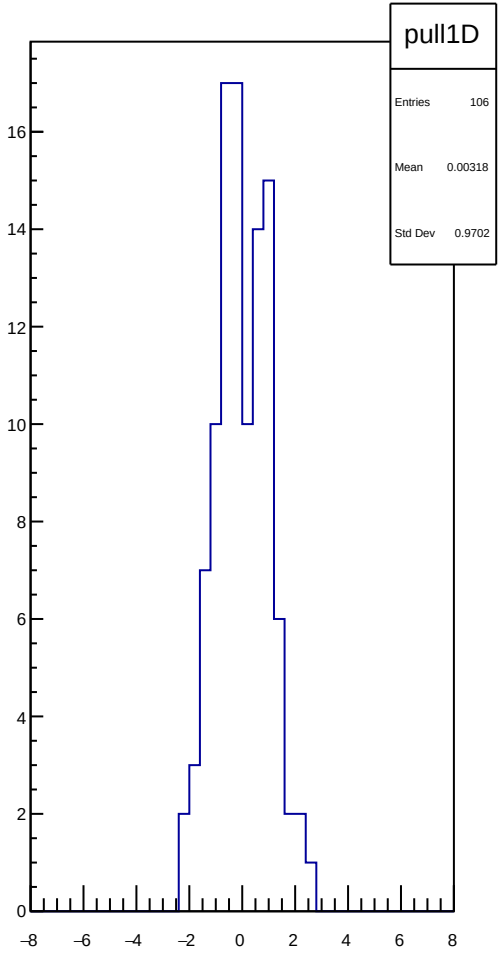

pull1D
Entries 106
Mean 0.006934
Std Dev 0.9783
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

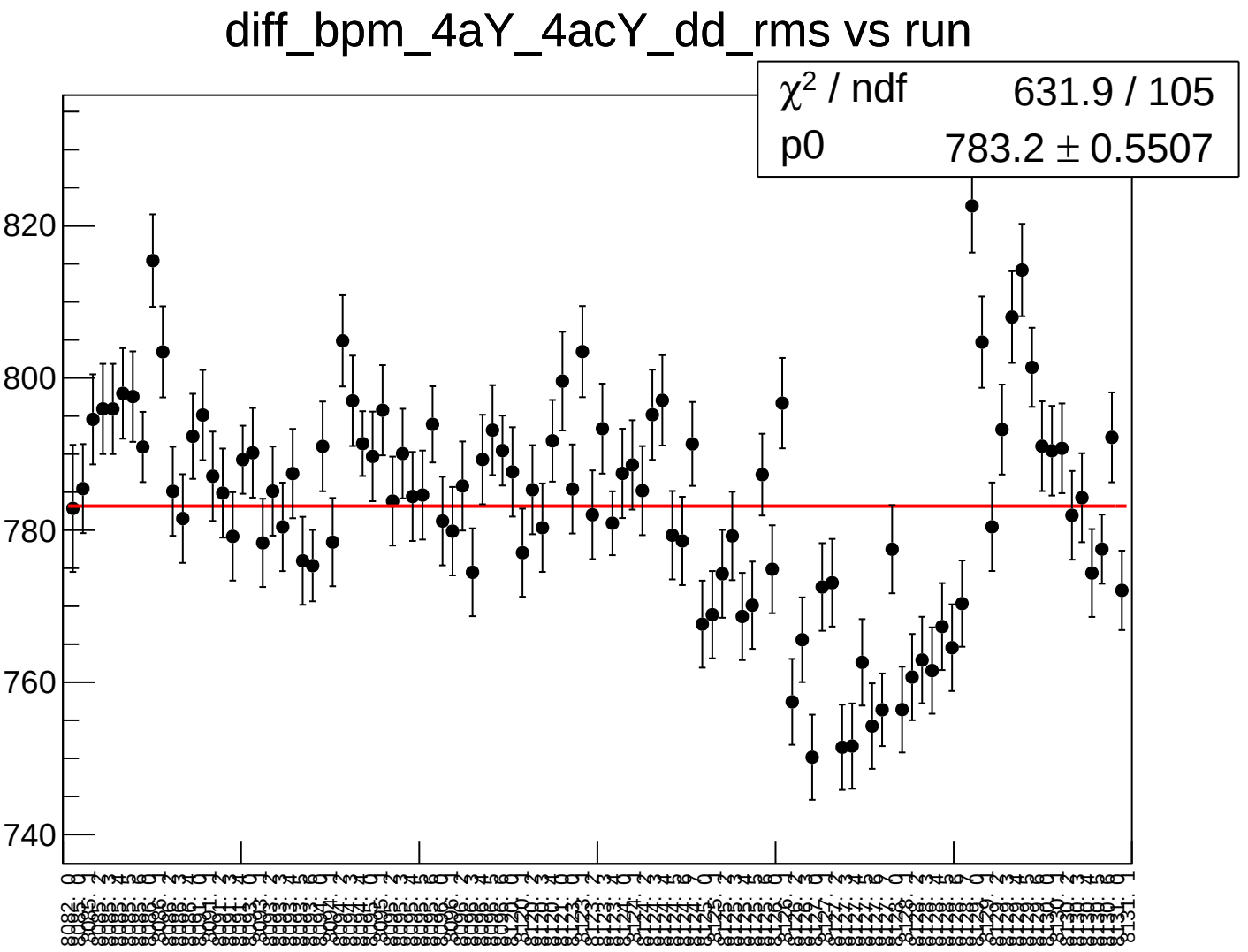

diff_bpm_4eX_4ecX_dd_rms vs run
χ² / ndf 280.9 / 105
p0 330.5 ± 0.2324
350
345
340
335
330
325
320

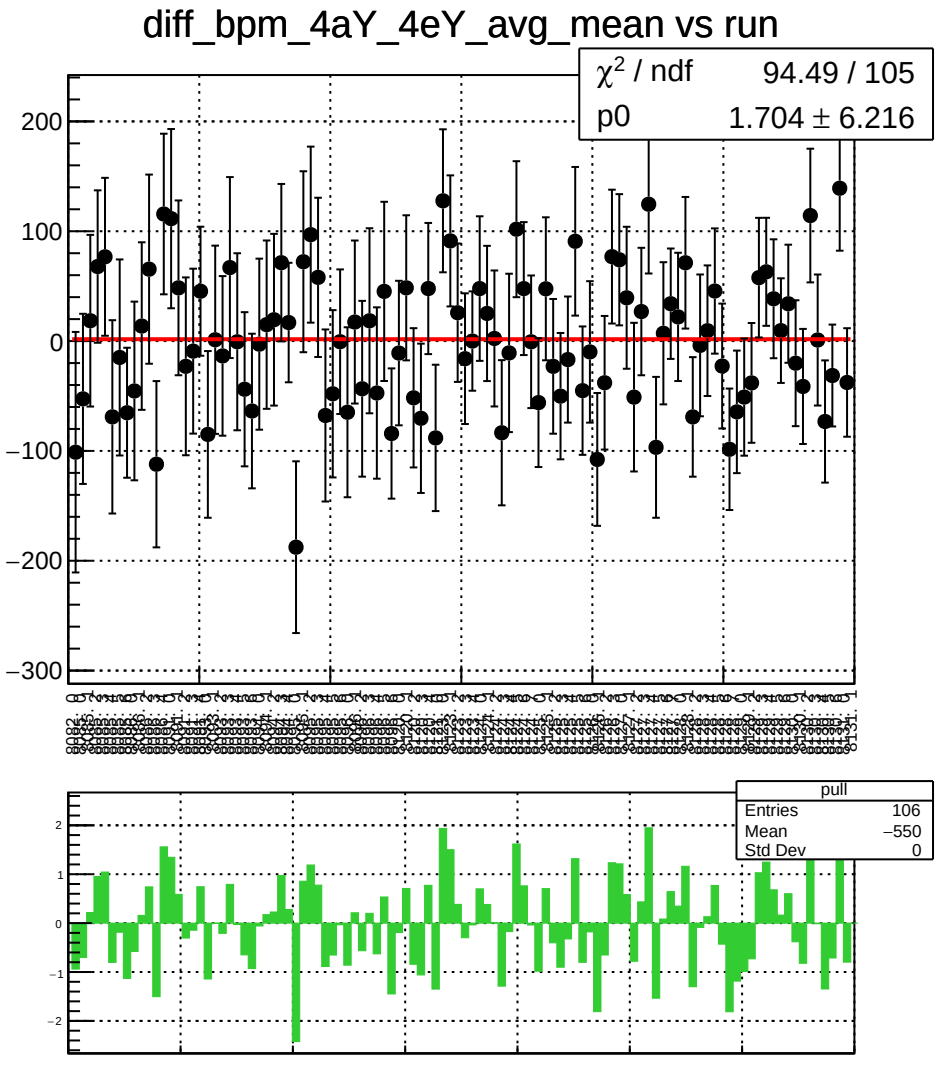

diff_bpm_4aY_4acY_avg_mean vs run
χ² / ndf 91.32 / 105
p0 2.439 ± 6.31
200
100
0
−100
−200
−300
pull
Entries 106
Mean −1023
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 106
Mean −0.0006007
Std Dev 0.9282
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

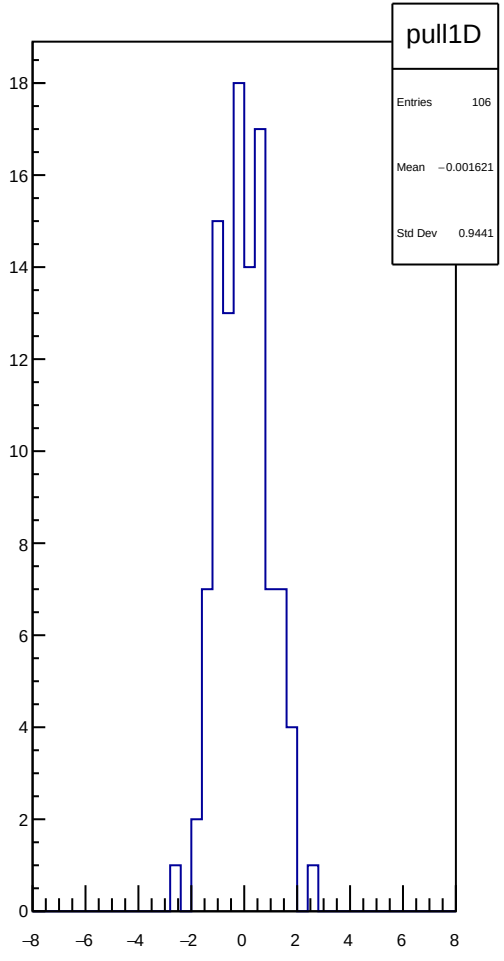

diff_bpm_4aY_4acY_avg_rms vs run
χ² / ndf 4.061e+04 / 105
p0 6282 ± 4.462
9000
8500
8000
7500
7000
6500
6000
5500
5000
4500

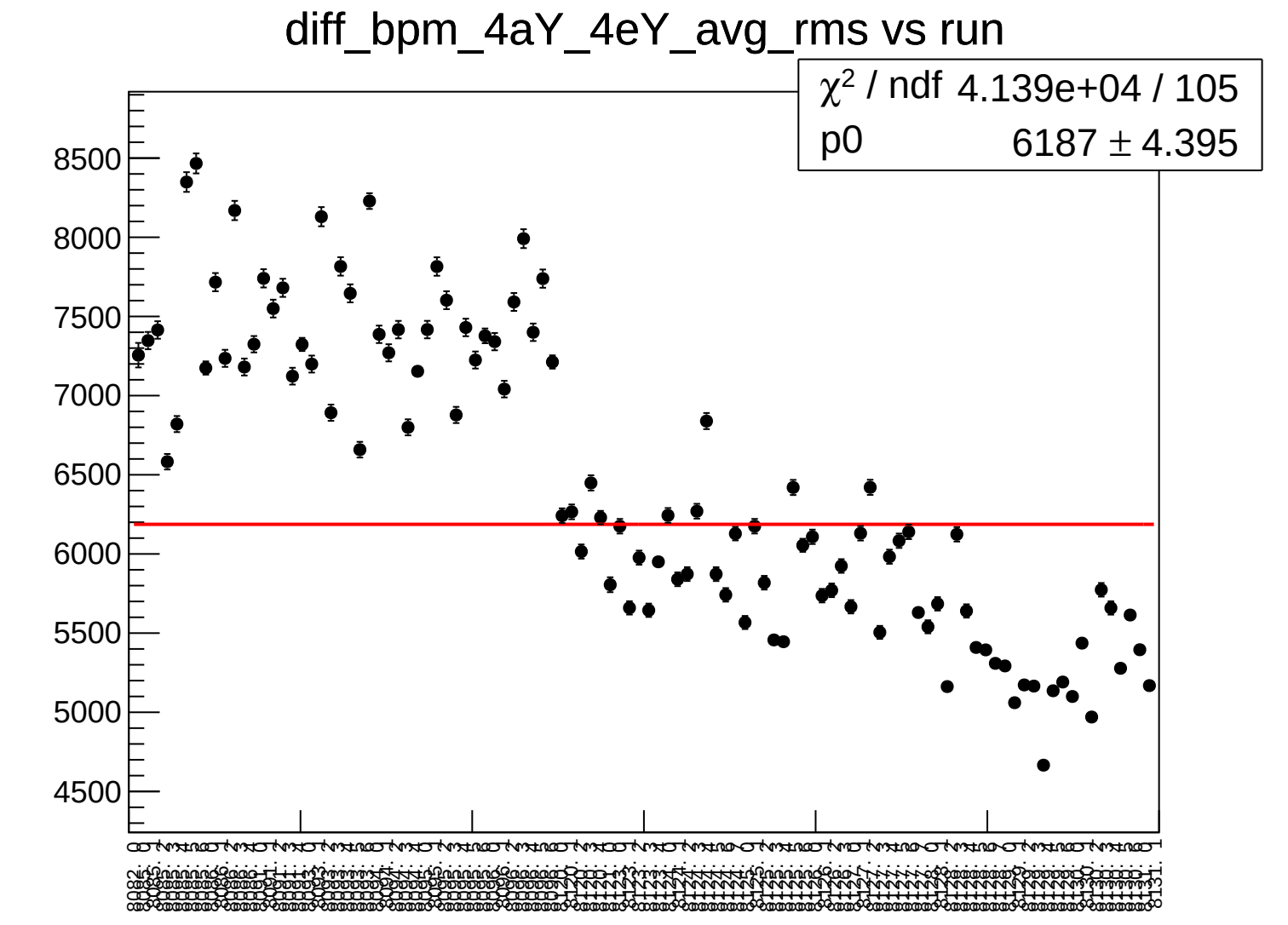

diff_bpm_4aY_4acY_dd_mean vs run
χ² / ndf 99.78 / 105
p0 −0.1813 ± 0.7788
pull
Entries 106
Mean 716.6
Std Dev 0

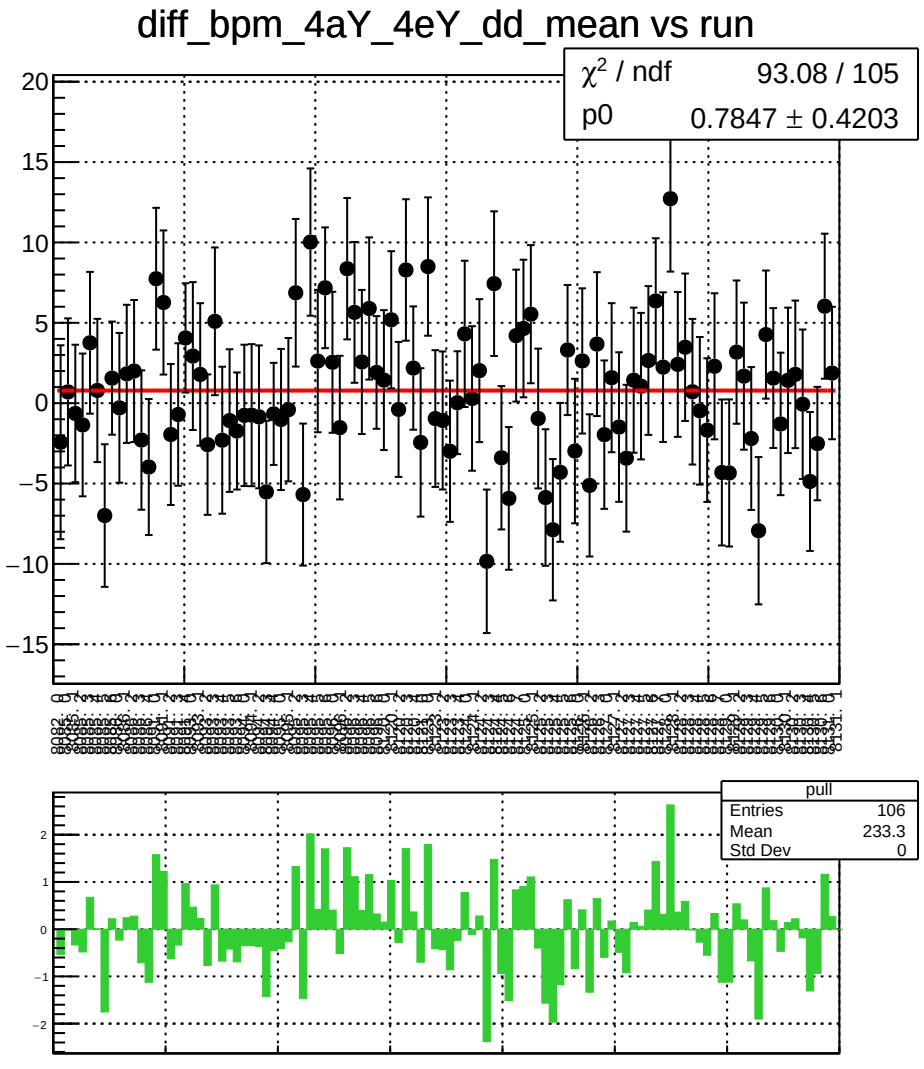

pull1D
Entries 106
Mean 0.00318
Std Dev 0.9702

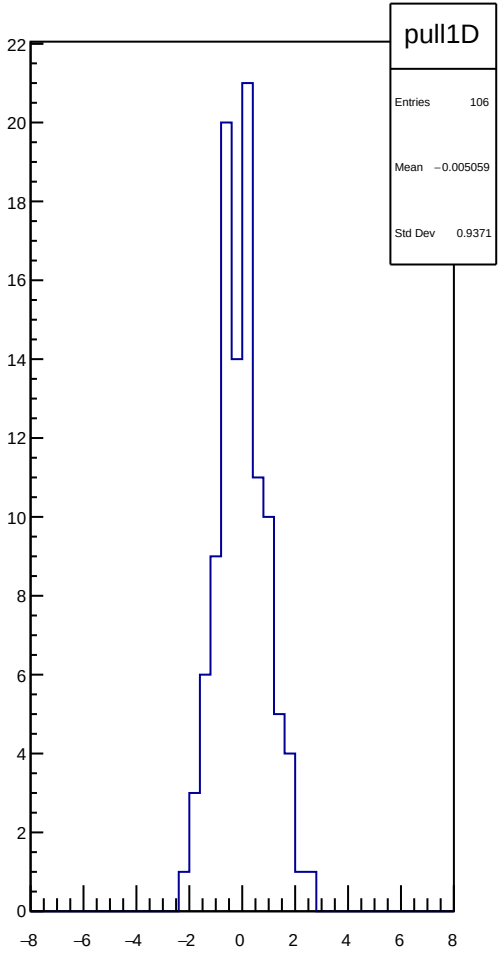

diff_bpm_4aY_4acY_dd_rms vs run
χ² / ndf 631.9 / 105
p0 783.2 ± 0.5507
820
800
780
760
740

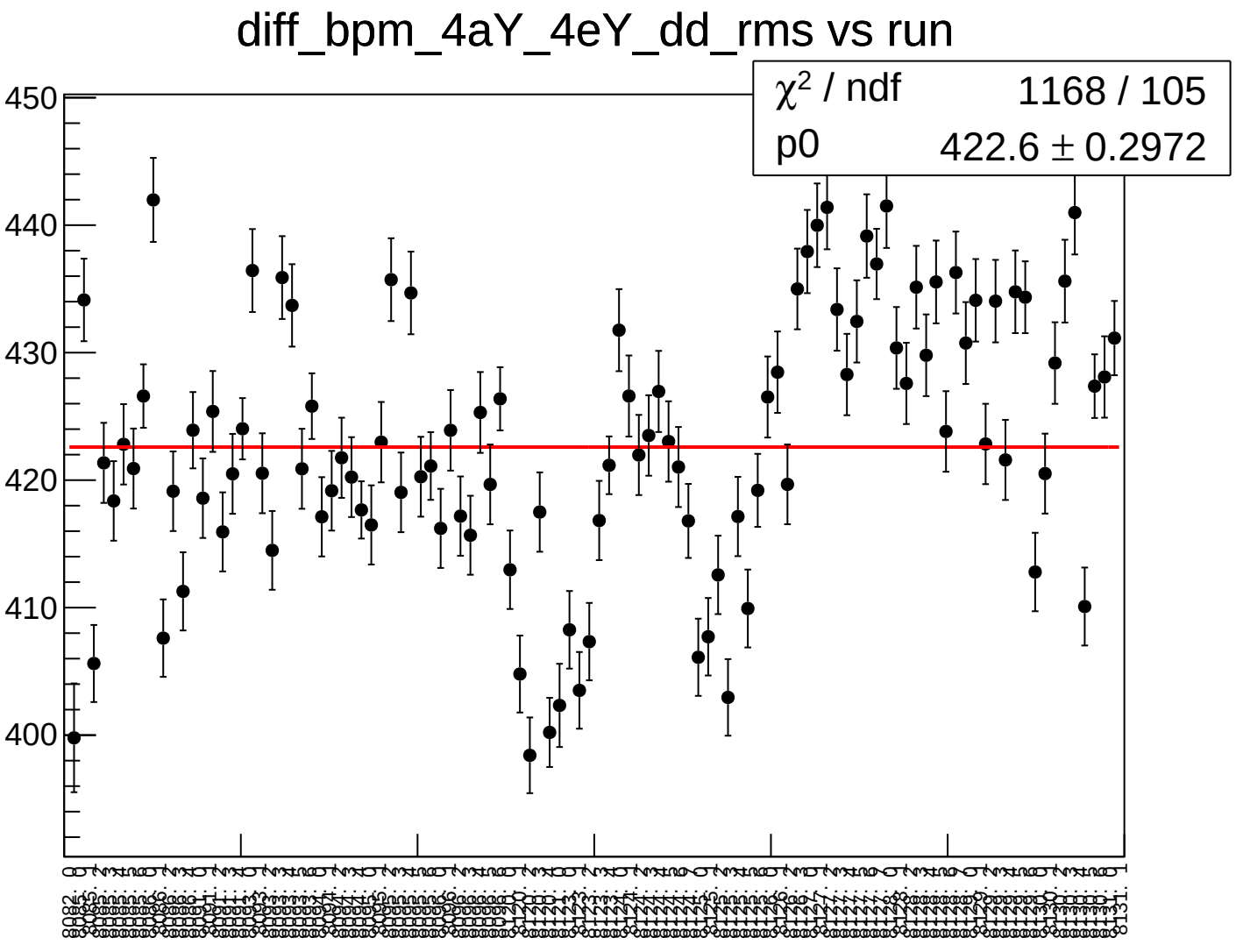

diff_bpm_4aY_4eY_avg_mean vs run
χ² / ndf 94.49 / 105
p0 1.704 ± 6.216
200
100
0
−100
−200
−300
pull
Entries 106
Mean −550
Std Dev 0
2
1
0
−1
−2

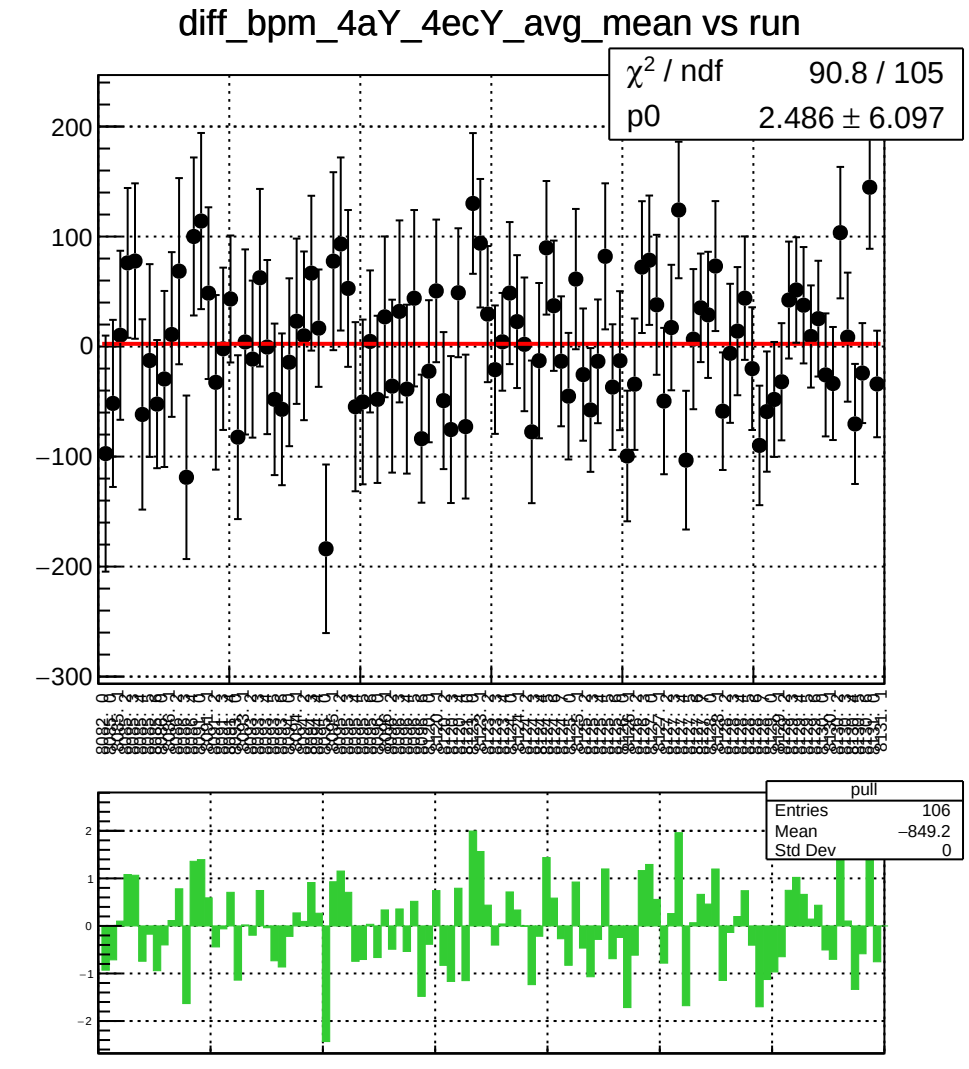

pull1D
Entries 106
Mean −0.001621
Std Dev 0.9441
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

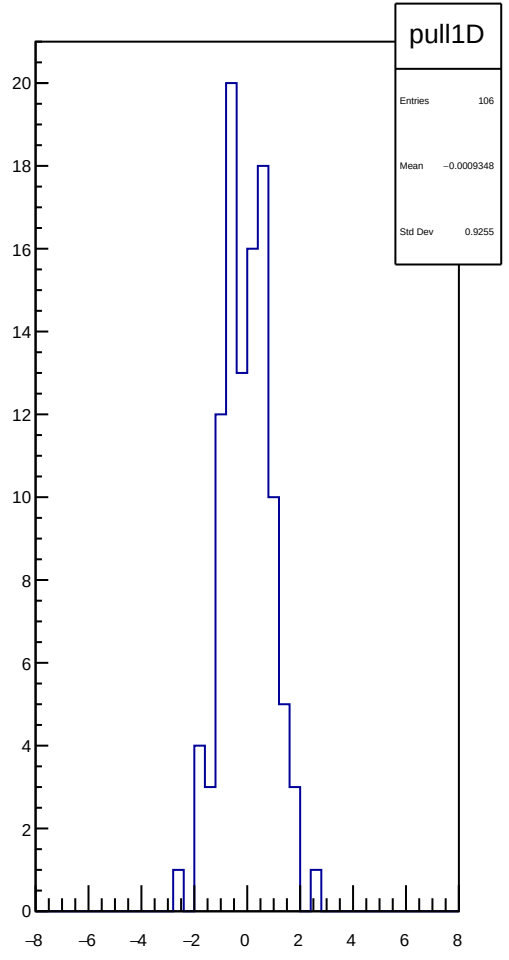

diff_bpm_4aY_4eY_avg_rms vs run
χ² / ndf 4.139e+04 / 105
p0 6187 ± 4.395
8500
8000
7500
7000
6500
6000
5500
5000
4500

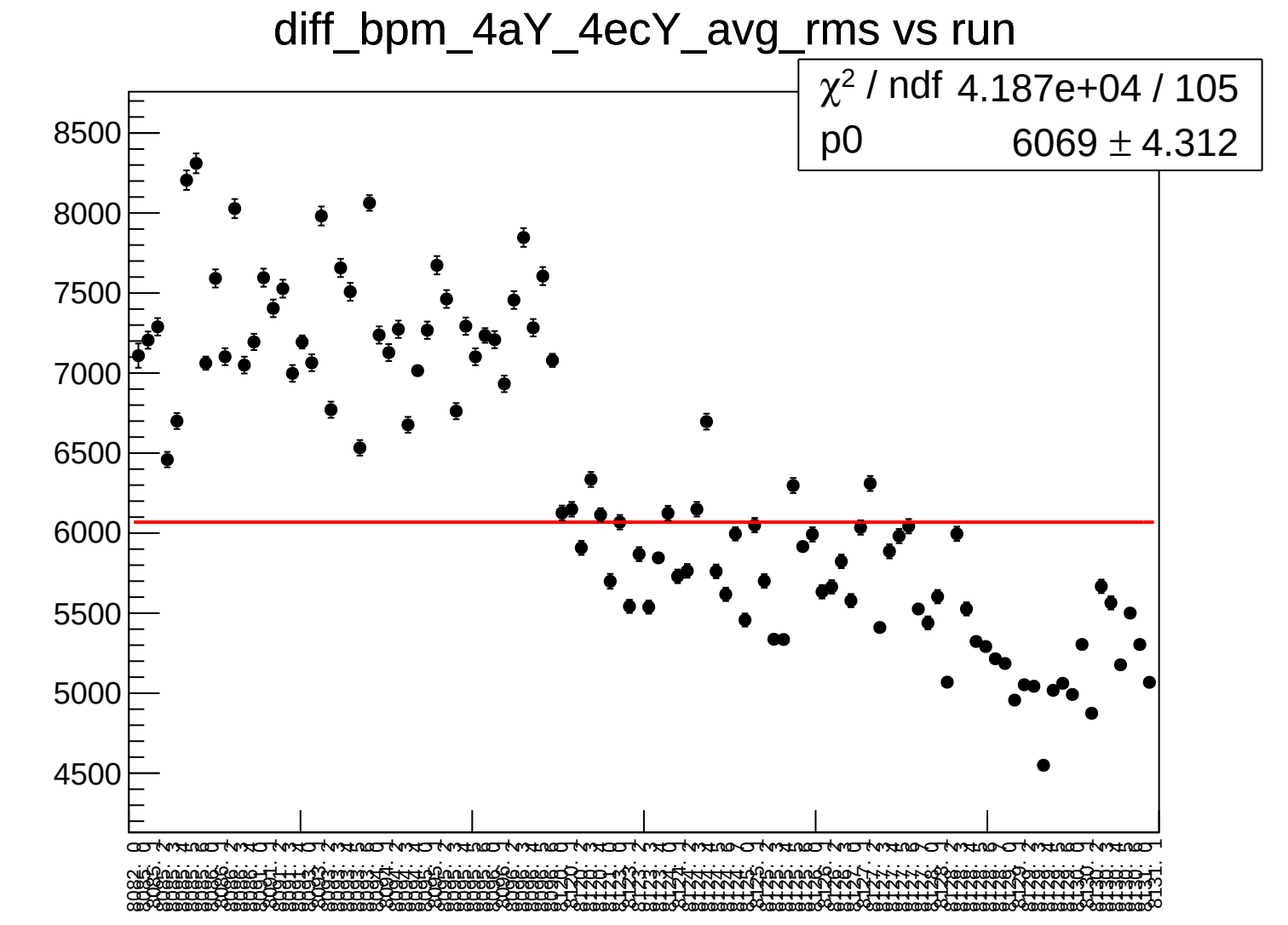

diff_bpm_4aY_4eY_dd_mean vs run
χ² / ndf 93.08 / 105
p0 0.7847 ± 0.4203
pull
Entries 106
Mean 233.3
Std Dev 0

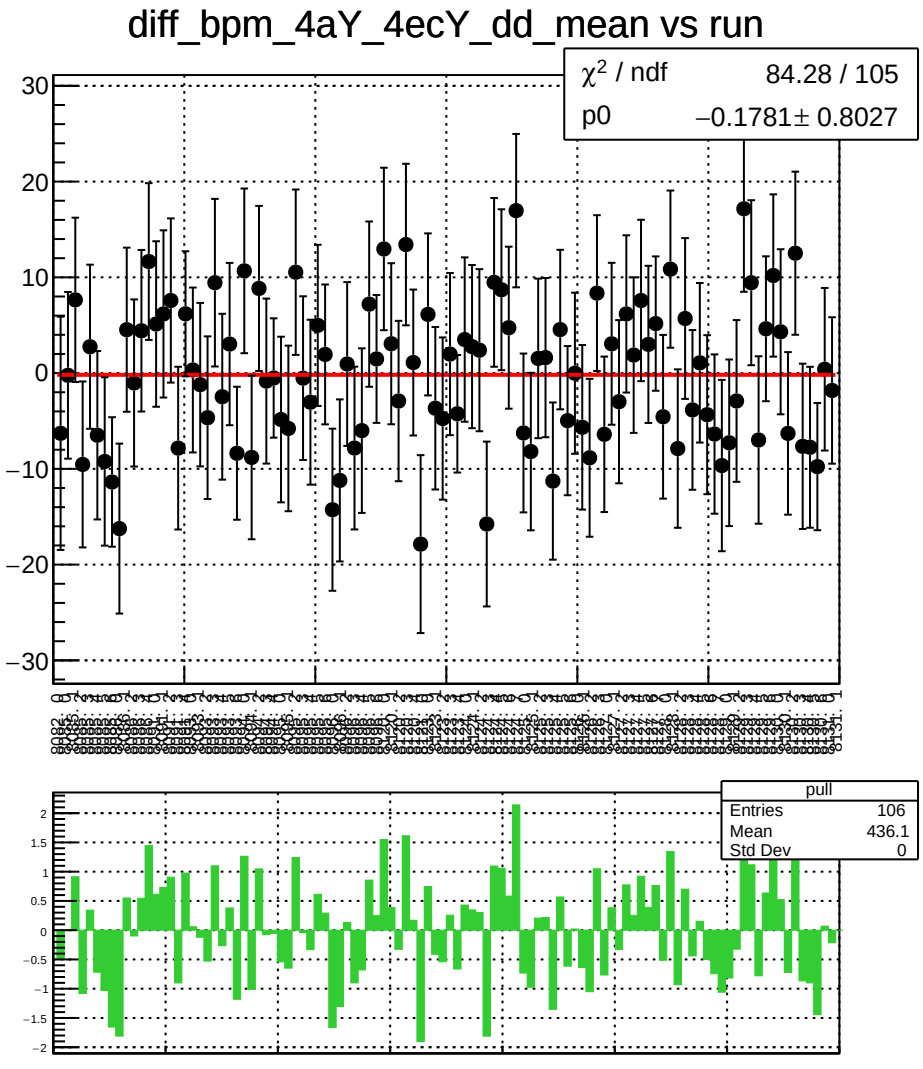

pull1D
Entries 106
Mean −0.005059
Std Dev 0.9371

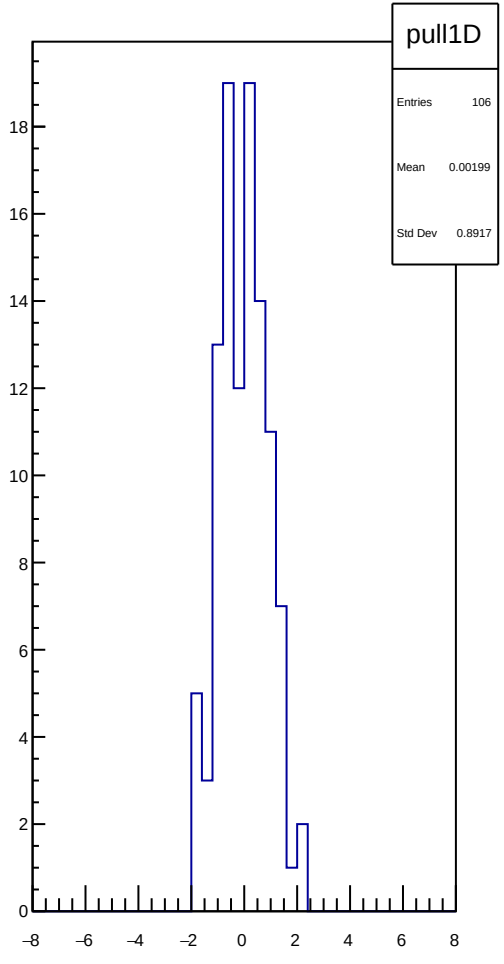

diff_bpm_4aY_4eY_dd_rms vs run
χ² / ndf 1168 / 105
p0 422.6 ± 0.2972
450
440
430
420
410
400

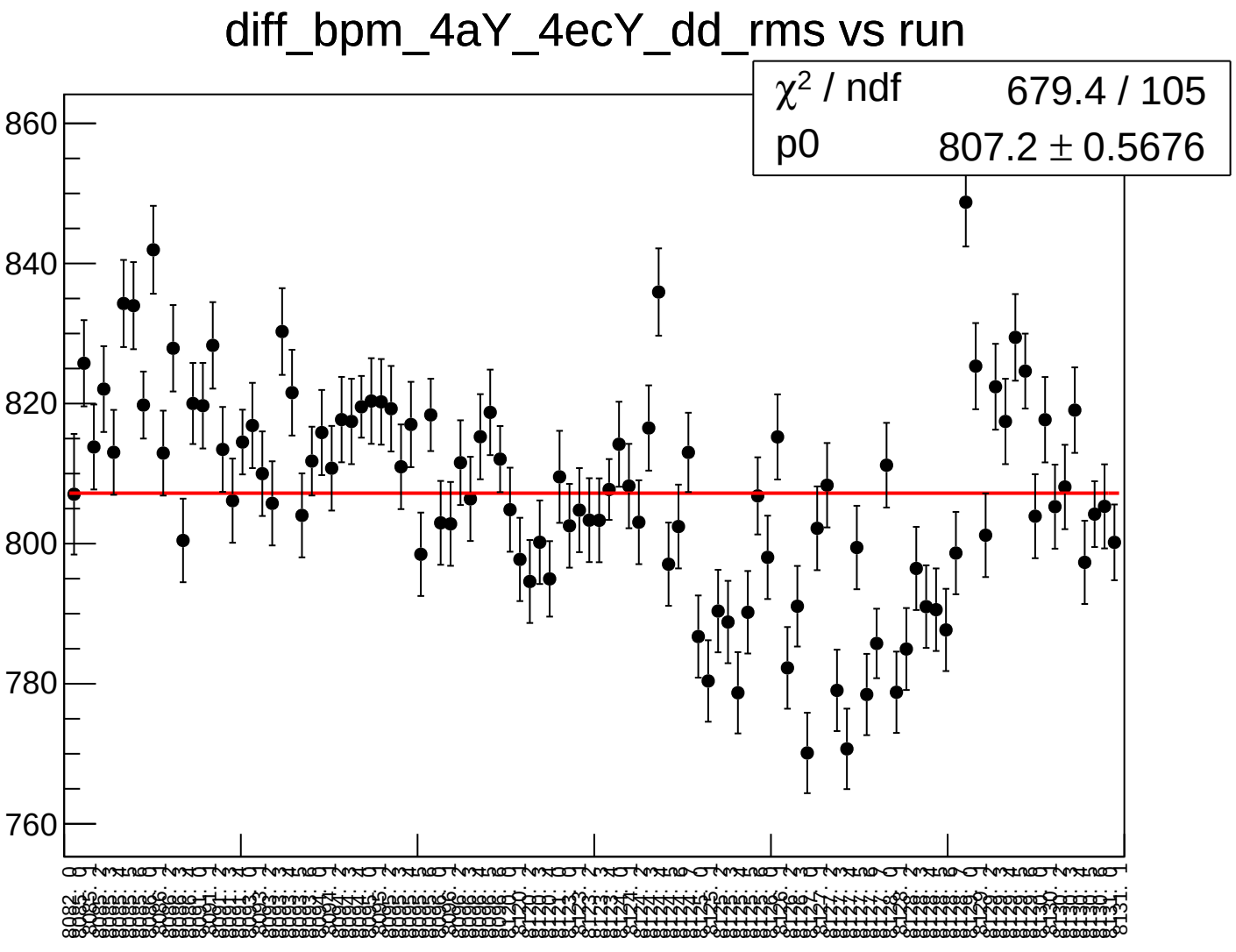

diff_bpm_4aY_4ecY_avg_mean vs run
χ² / ndf 90.8 / 105
p0 2.486 ± 6.097
200
100
0
−100
−200
−300
pull
Entries 106
Mean −849.2
Std Dev 0
2
1
0
−1
−2

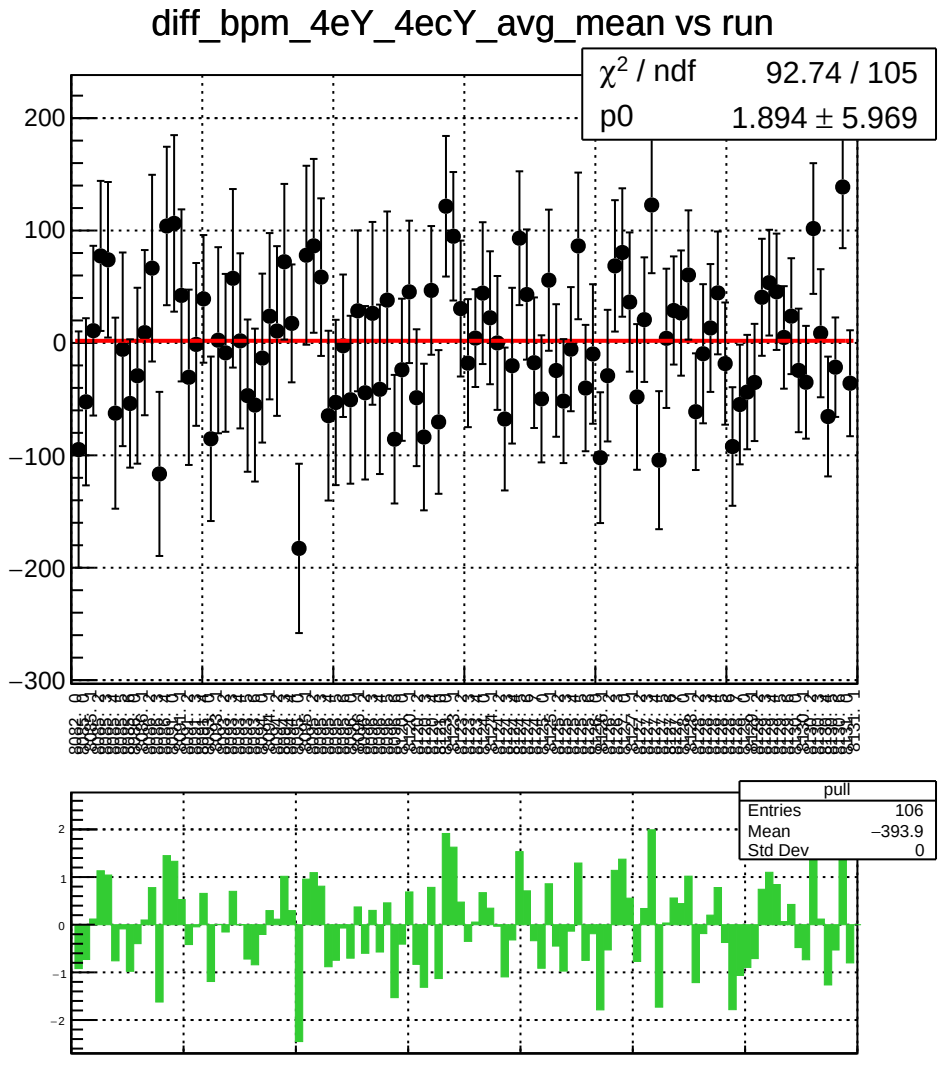

pull1D
Entries 106
Mean −0.0009348
Std Dev 0.9255
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

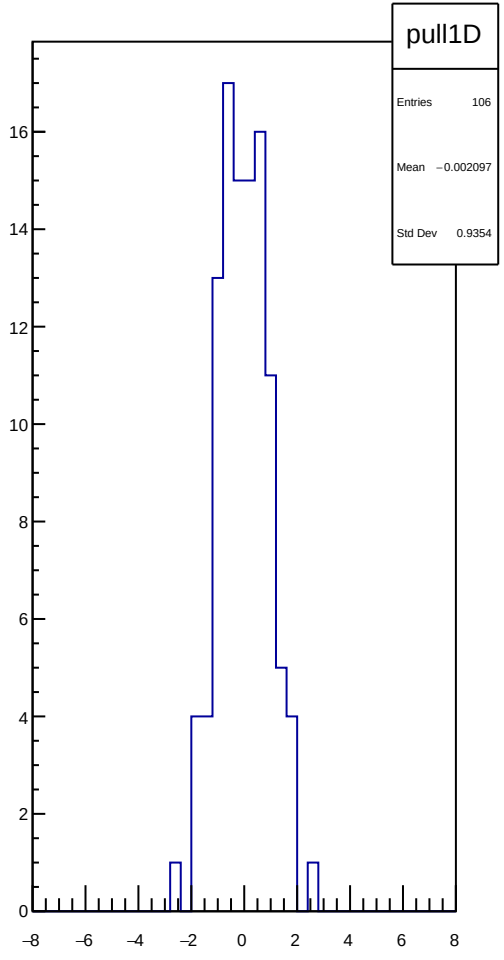

diff_bpm_4aY_4ecY_avg_rms vs run
χ² / ndf 4.187e+04 / 105
p0 6069 ± 4.312
8500
8000
7500
7000
6500
6000
5500
5000
4500

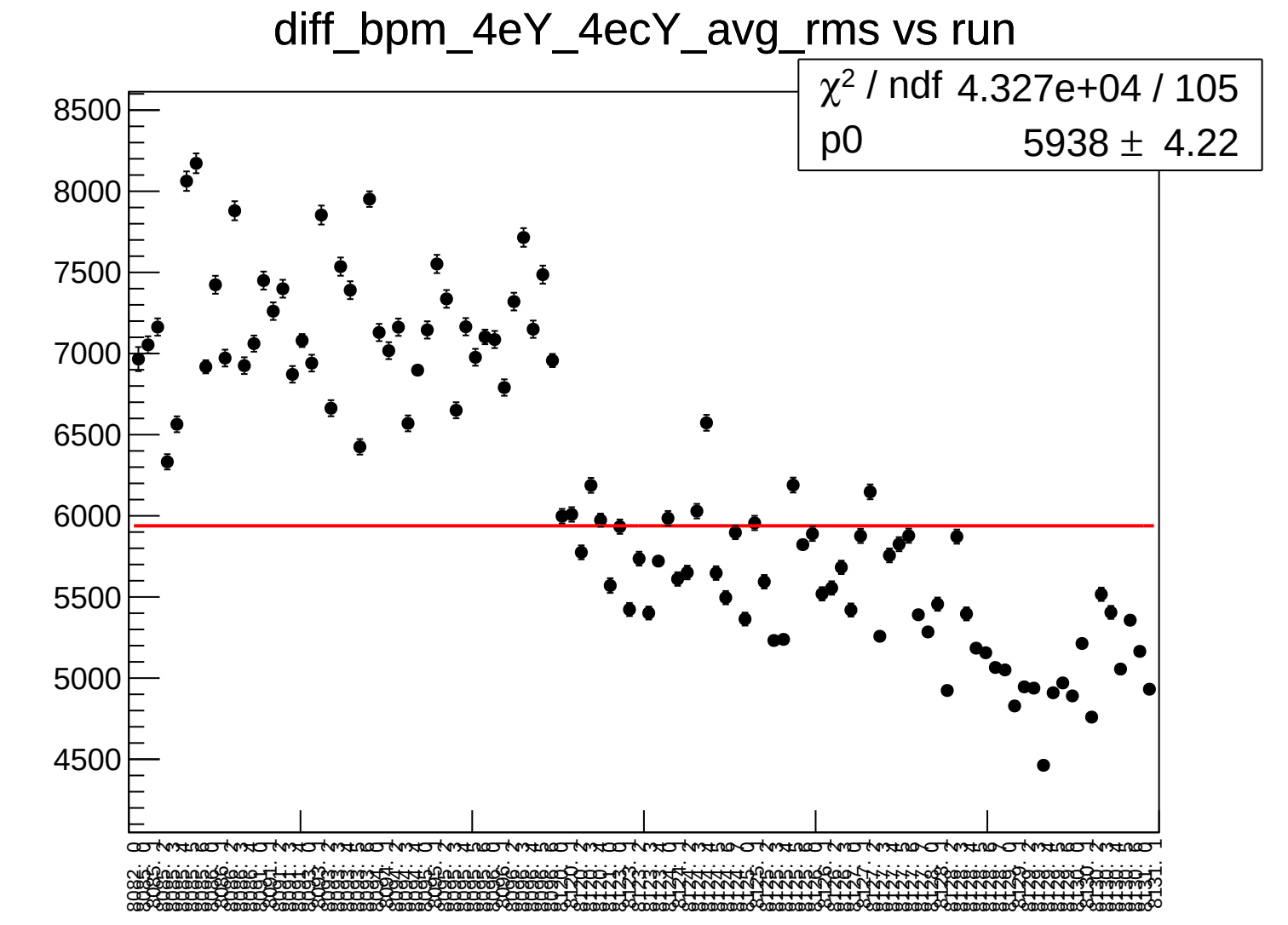

diff_bpm_4aY_4ecY_dd_mean vs run
χ² / ndf 84.28 / 105
p0 −0.1781± 0.8027
pull
Entries 106
Mean 436.1
Std Dev 0

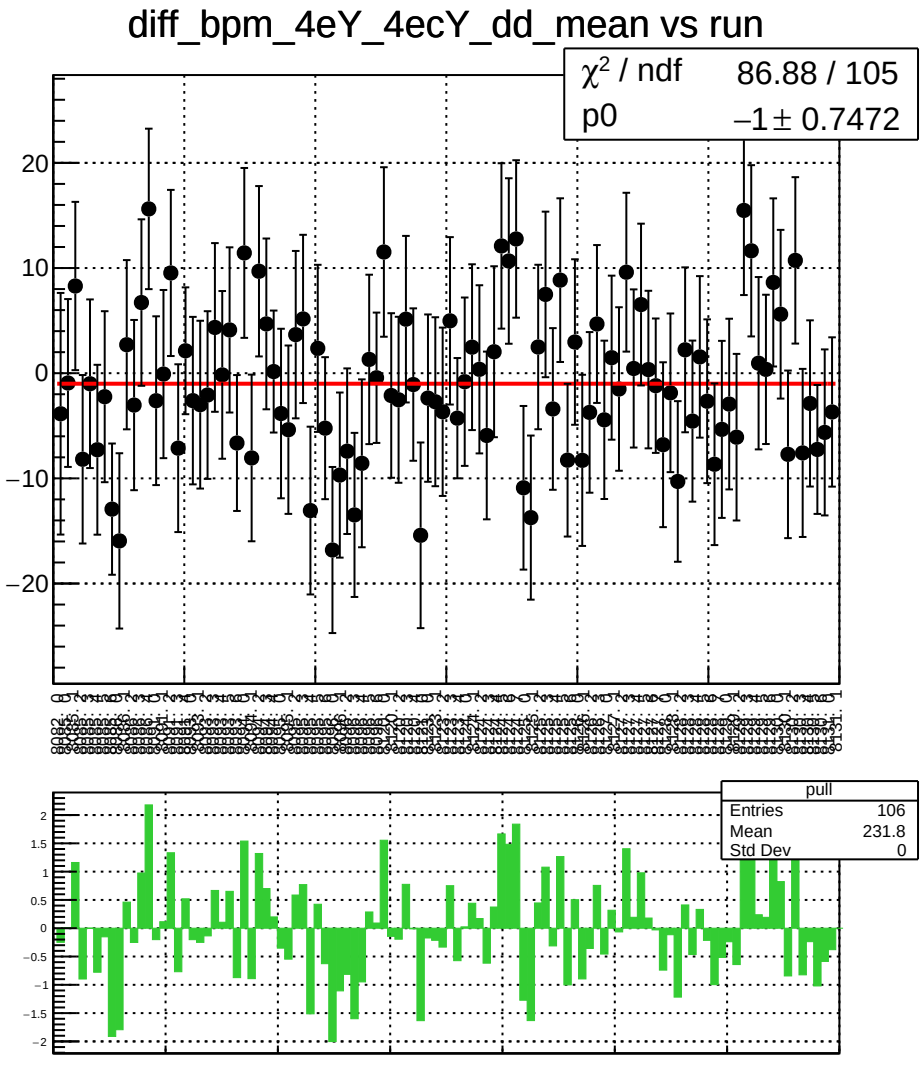

pull1D
Entries 106
Mean 0.00199
Std Dev 0.8917

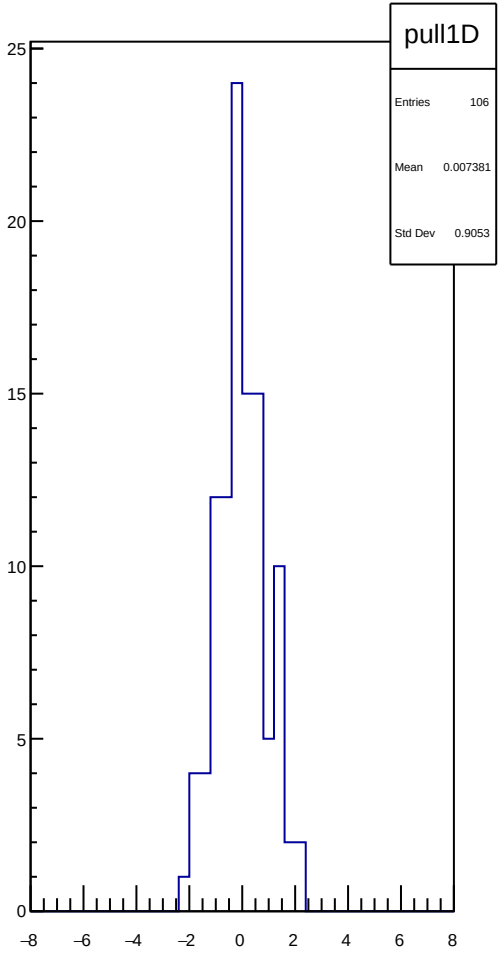

diff_bpm_4aY_4ecY_dd_rms vs run
χ² / ndf 679.4 / 105
p0 807.2 ± 0.5676
860
840
820
800
780
760

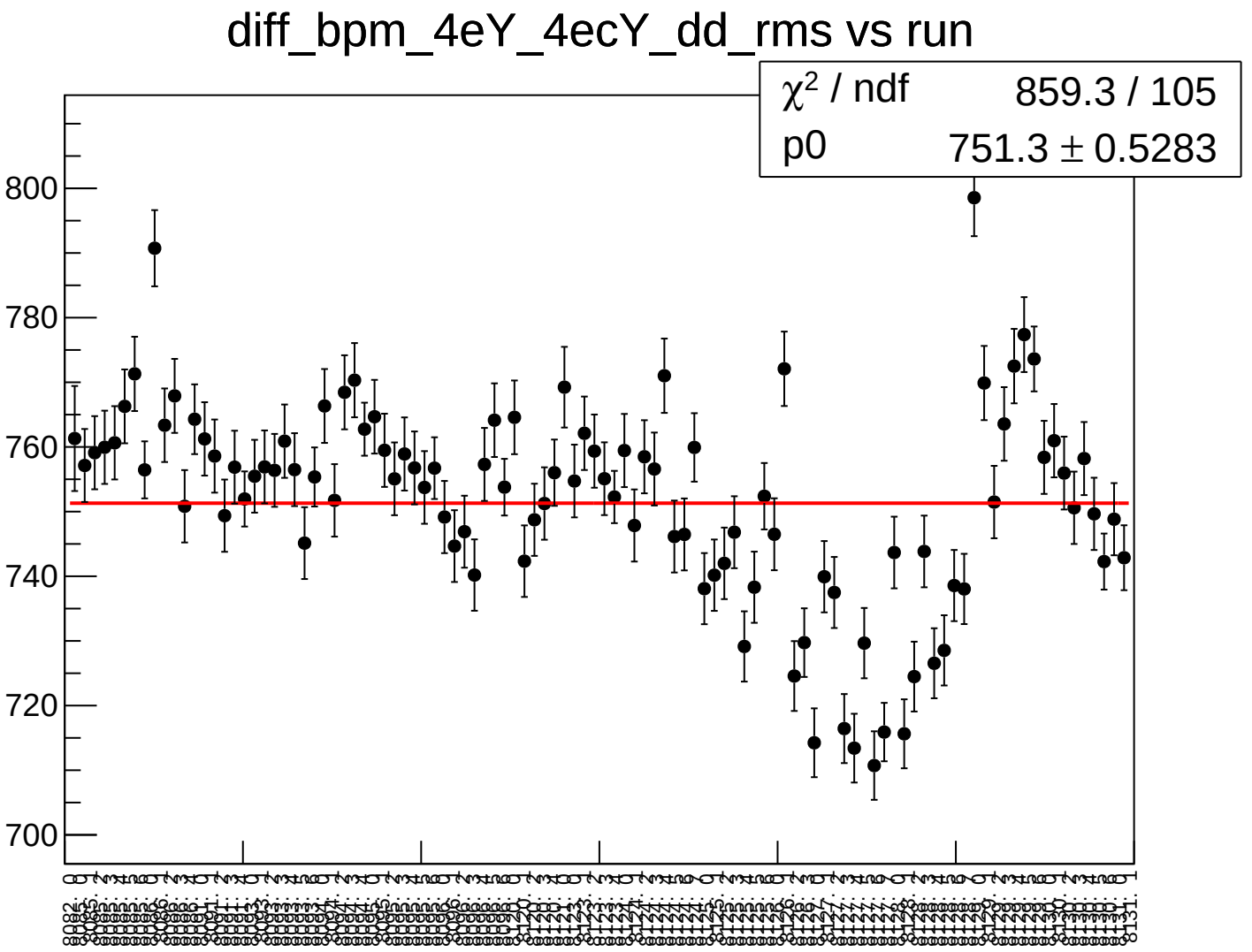

diff_bpm_4eY_4ecY_avg_mean vs run
$\chi^2$ / ndf 92.74 / 105
p0 1.894 ± 5.969
200
100
0
−100
−200
−300
pull
Entries 106
Mean −393.9
Std Dev 0
2
1
0
−1
−2

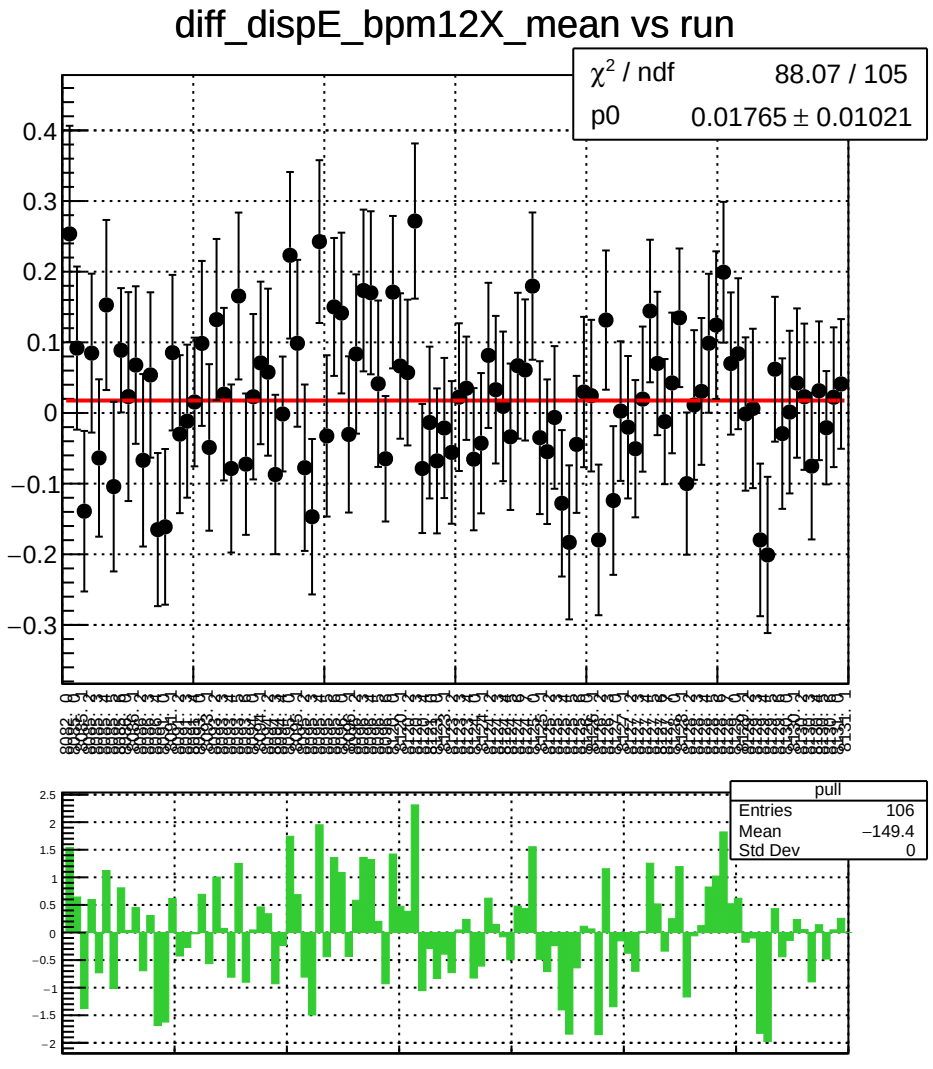

pull1D
Entries 106
Mean −0.002097
Std Dev 0.9354
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

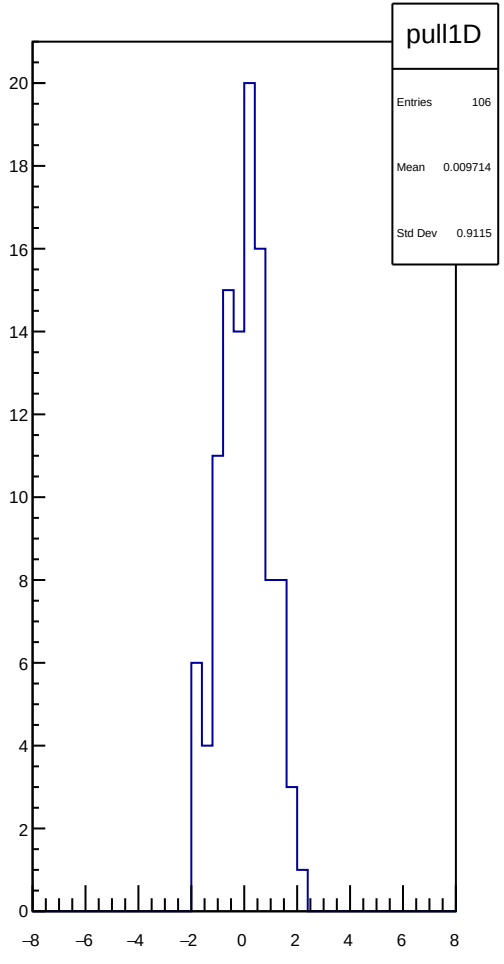

diff_bpm_4eY_4ecY_avg_rms vs run
χ² / ndf 4.327e+04 / 105
p0 5938 ± 4.22
8500
8000
7500
7000
6500
6000
5500
5000
4500

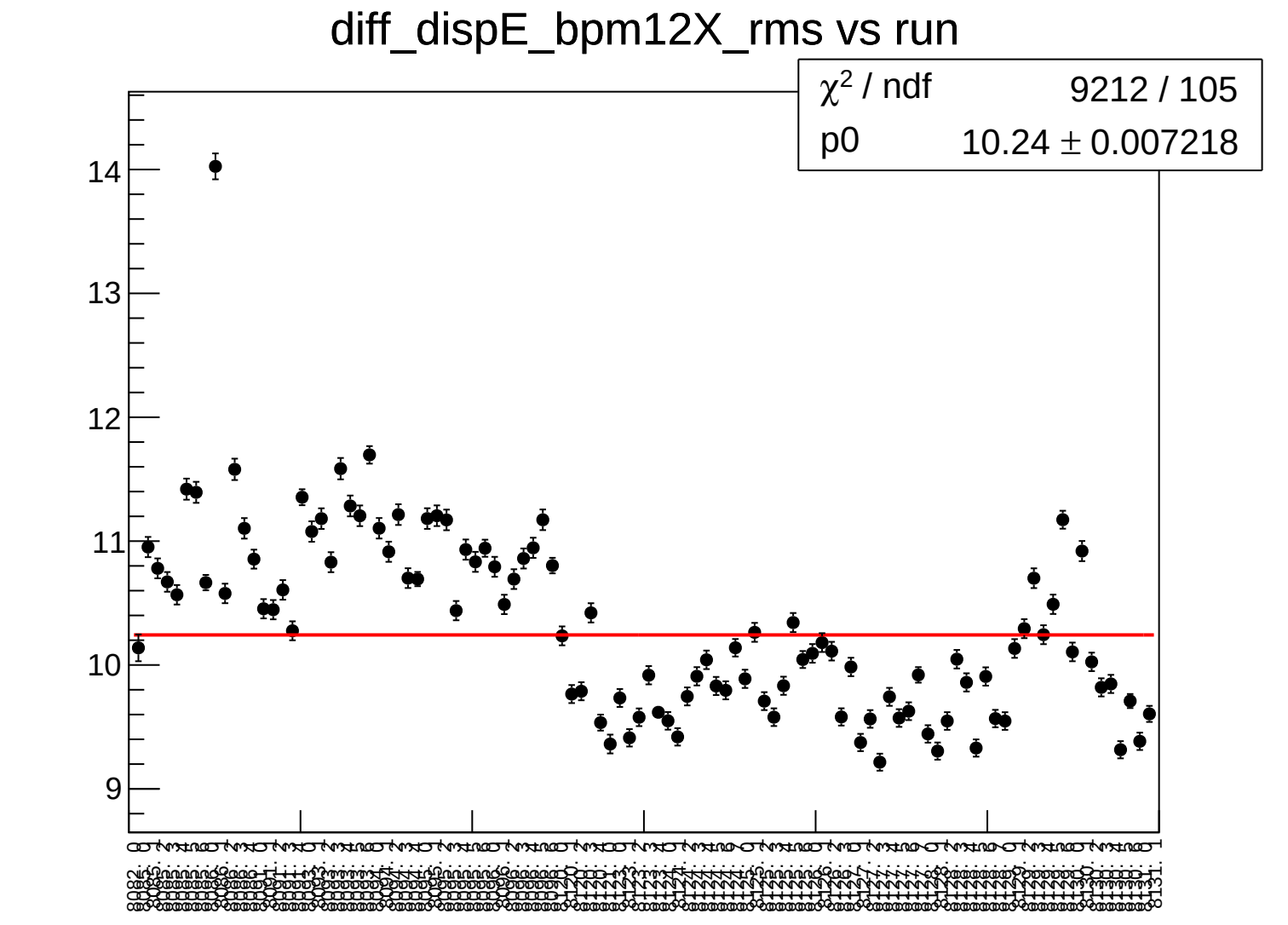

diff_bpm_4eY_4ecY_dd_mean vs run
χ² / ndf 86.88 / 105
p0 −1 ± 0.7472
pull
Entries 106
Mean 231.8
Std Dev 0

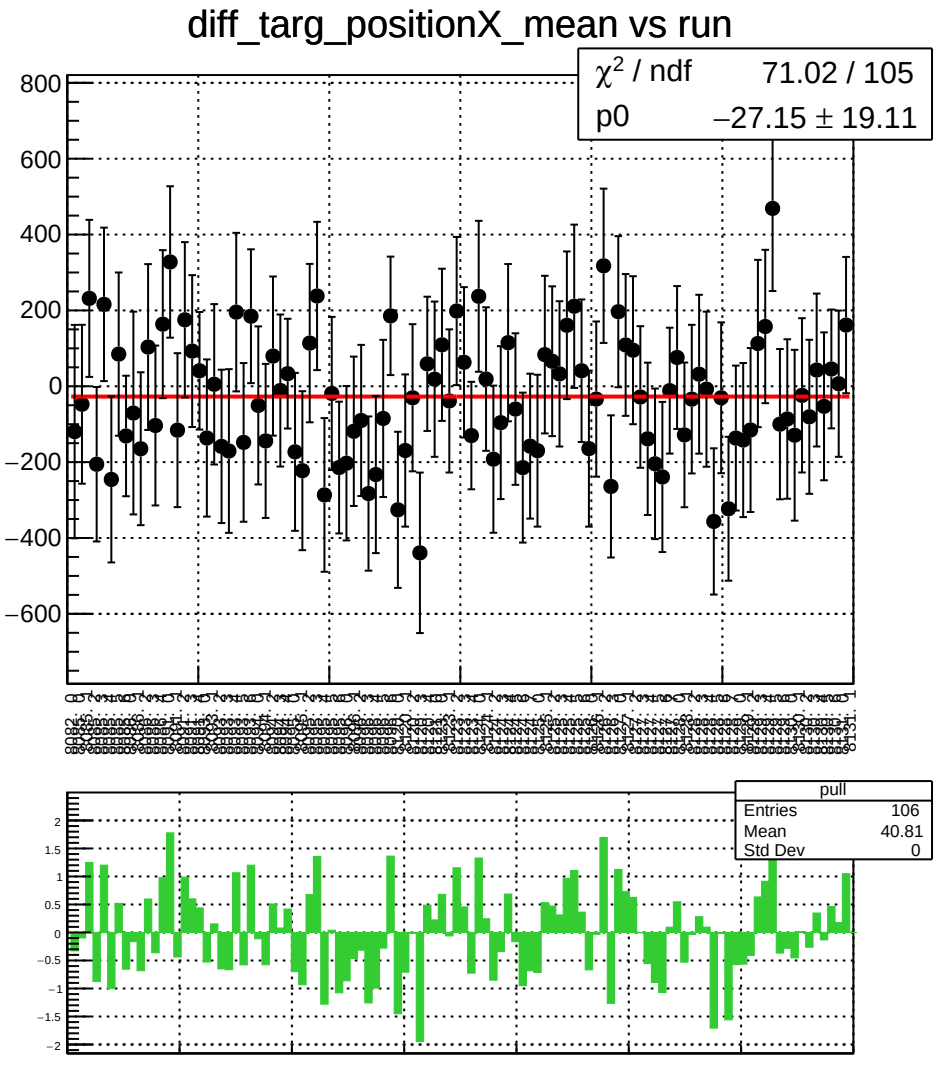

pull1D
Entries 106
Mean 0.007381
Std Dev 0.9053

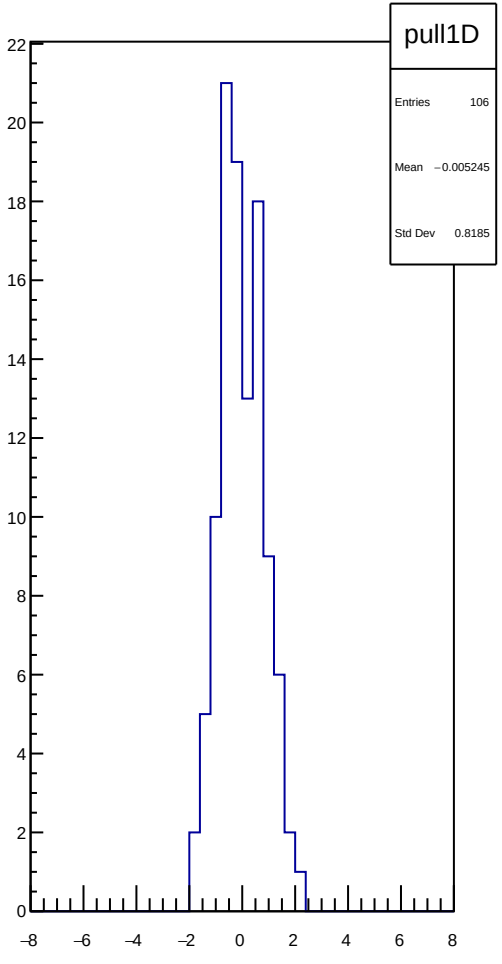

diff_bpm_4eY_4ecY_dd_rms vs run
χ² / ndf 859.3 / 105
p0 751.3 ± 0.5283
800
780
760
740
720
700

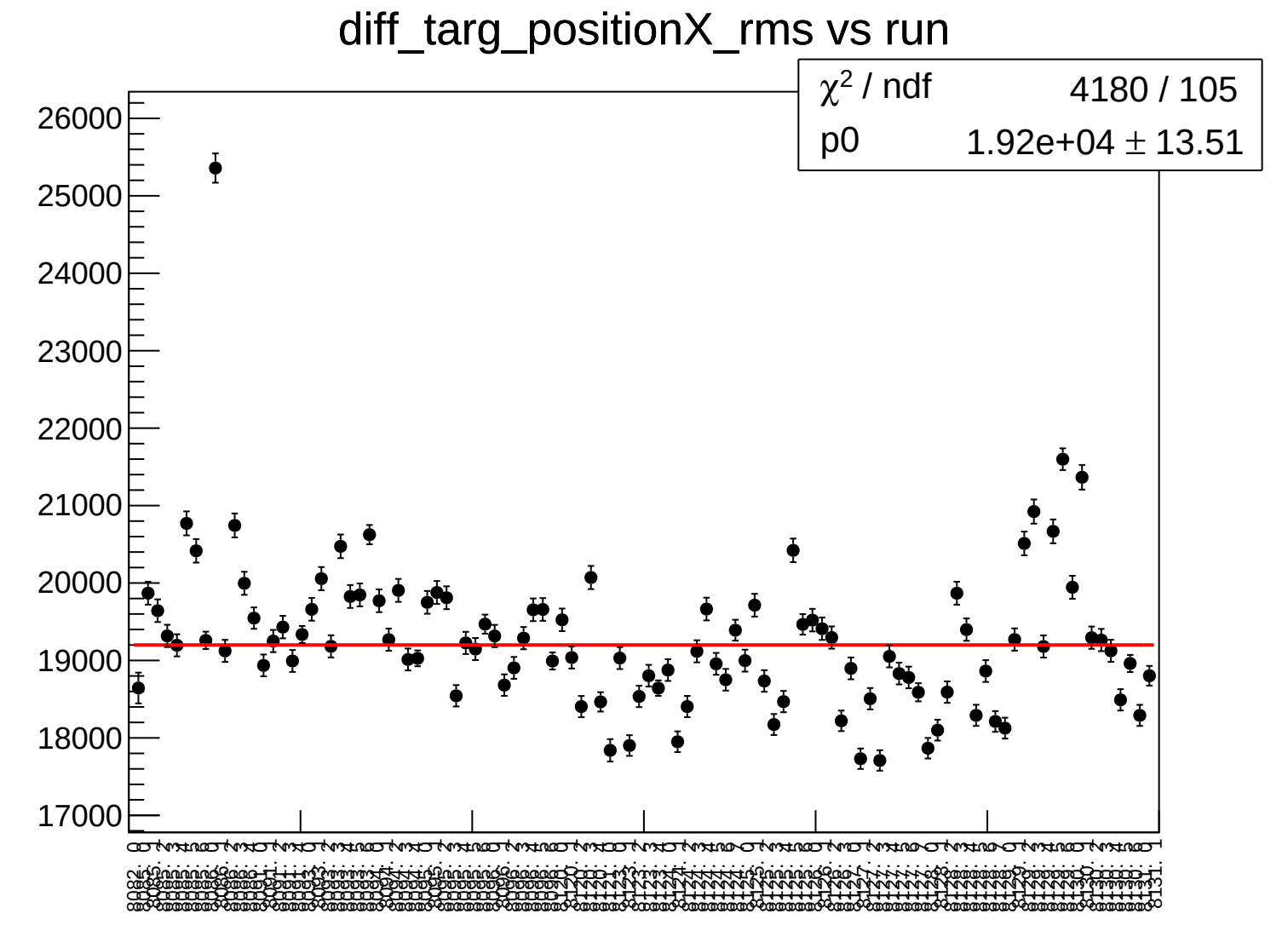

diff_dispE_bpm12X_mean vs run
$\chi^2$ / ndf 88.07 / 105
p0 0.01765 ± 0.01021
pull
Entries 106
Mean −149.4
Std Dev 0

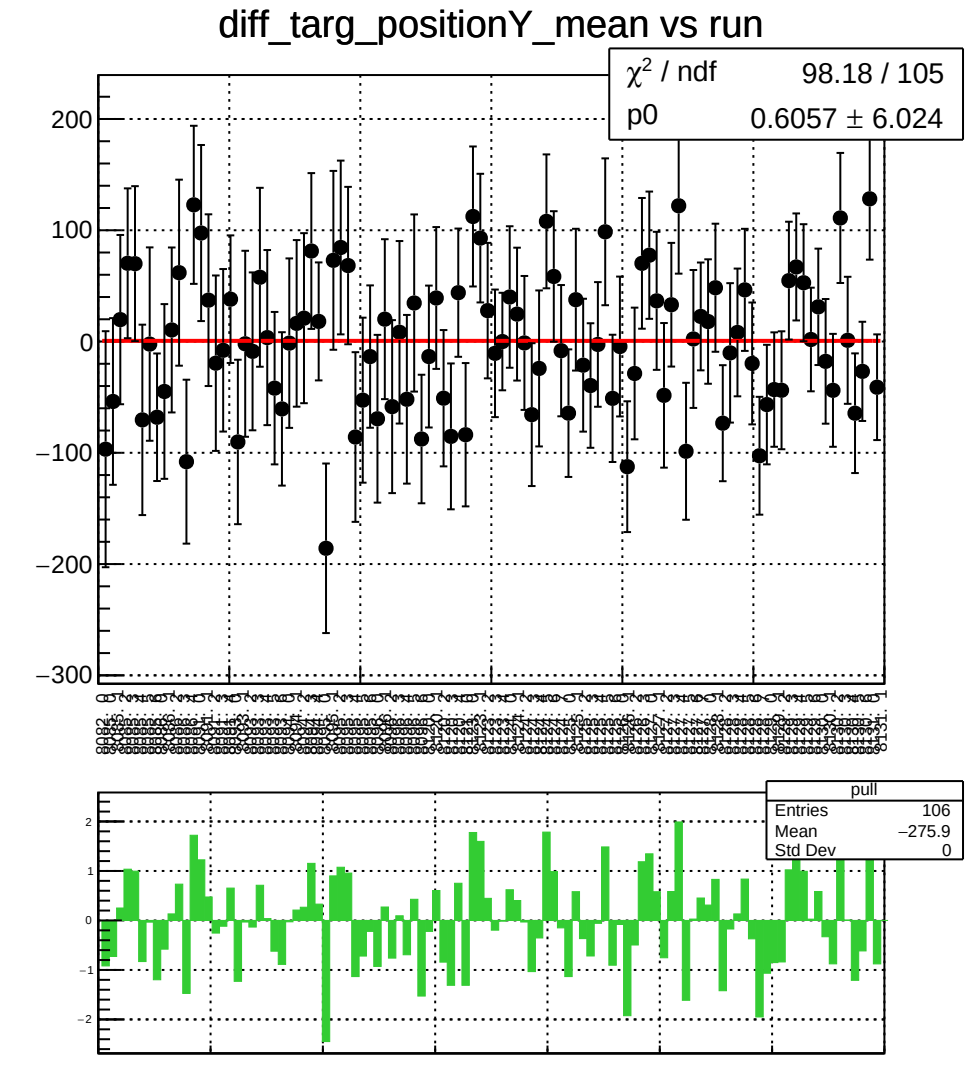

pull1D
Entries 106
Mean 0.009714
Std Dev 0.9115

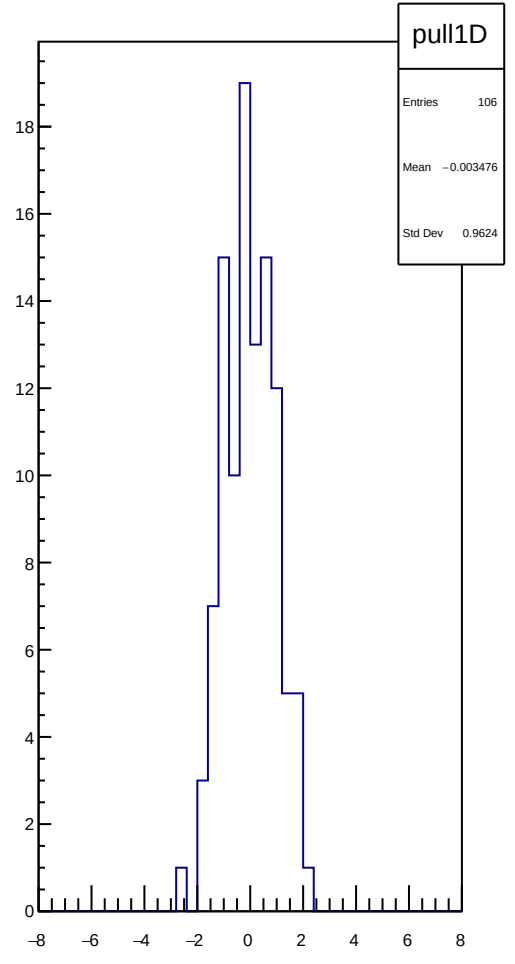

diff_dispE_bpm12X_rms vs run
$\chi^2$ / ndf 9212 / 105
p0 10.24 ± 0.007218
14
13
12
11
10
9

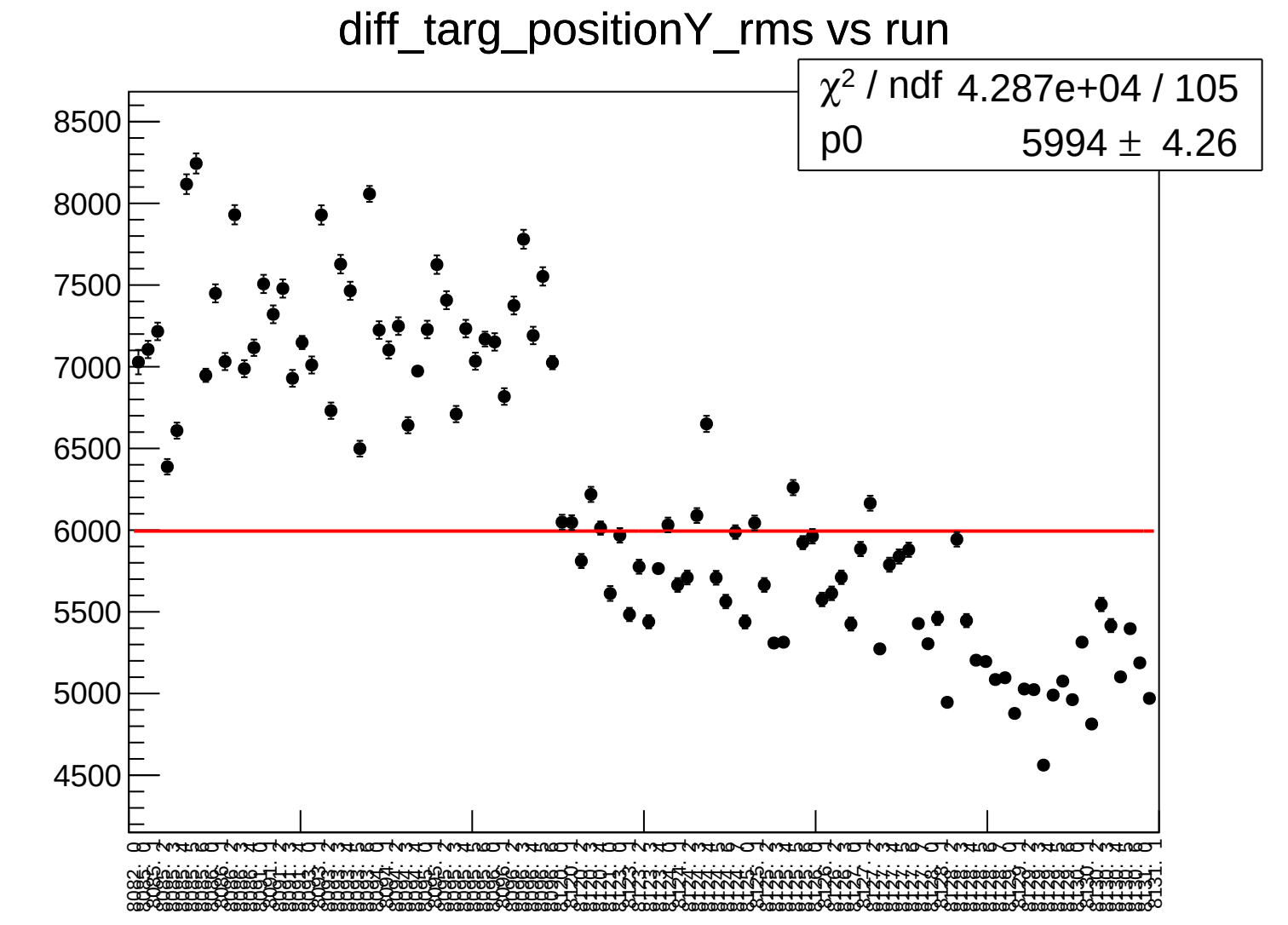

diff_targ_positionX_mean vs run
χ² / ndf 71.02 / 105
p0 −27.15 ± 19.11
pull
Entries 106
Mean 40.81
Std Dev 0

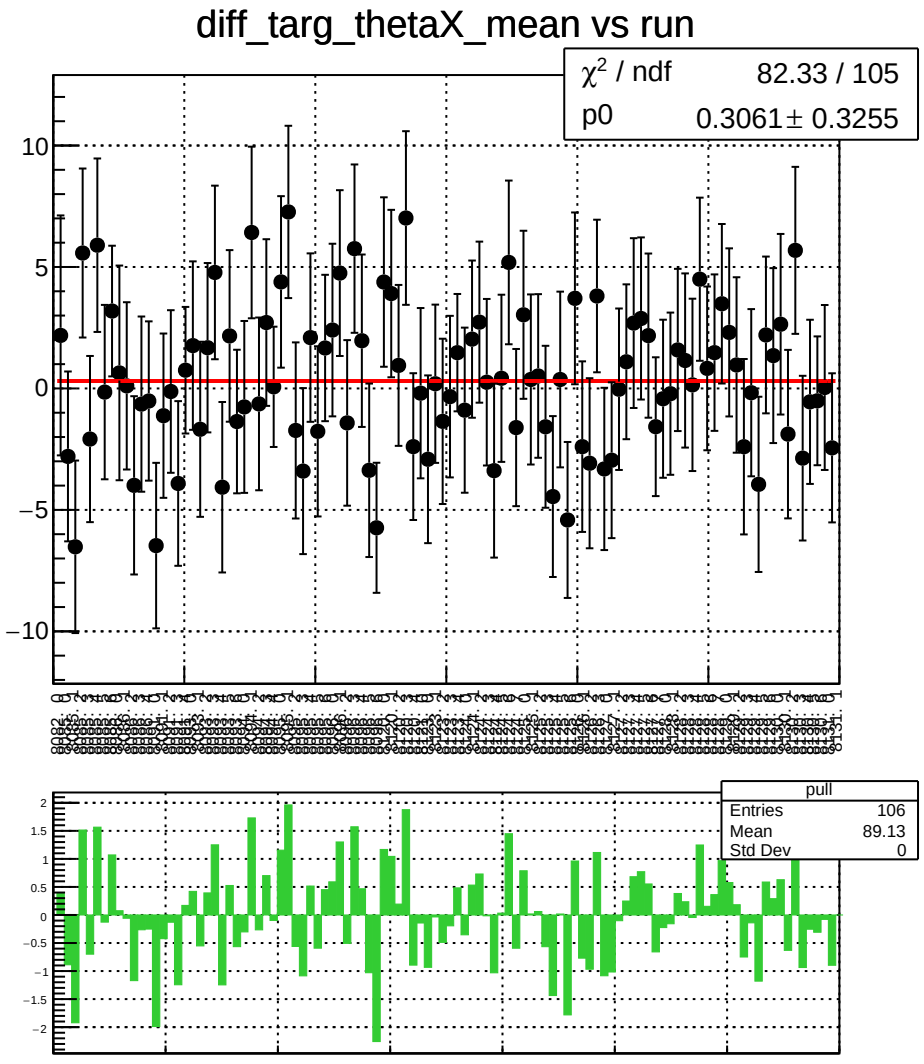

pull1D
Entries 106
Mean −0.005245
Std Dev 0.8185

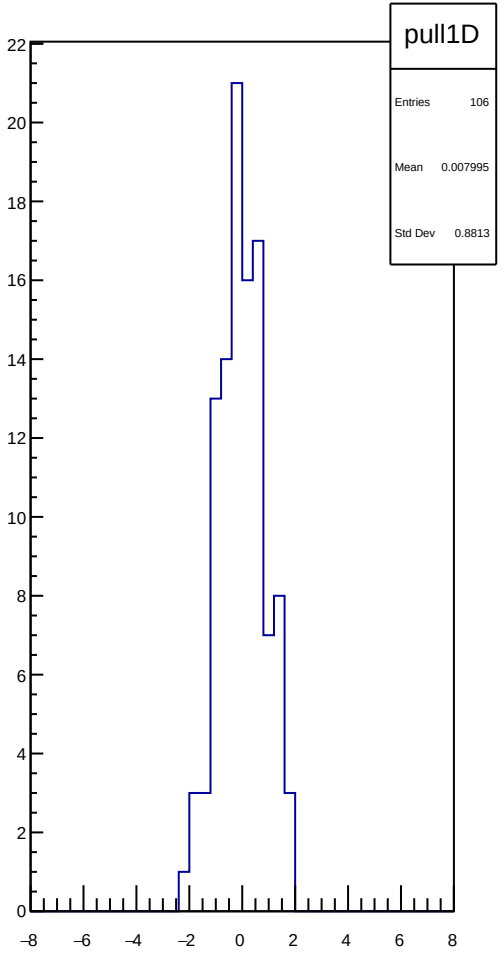

diff_targ_positionX_rms vs run
χ² / ndf 4180 / 105
p0 1.92e+04 ± 13.51
26000
25000
24000
23000
22000
21000
20000
19000
18000
17000

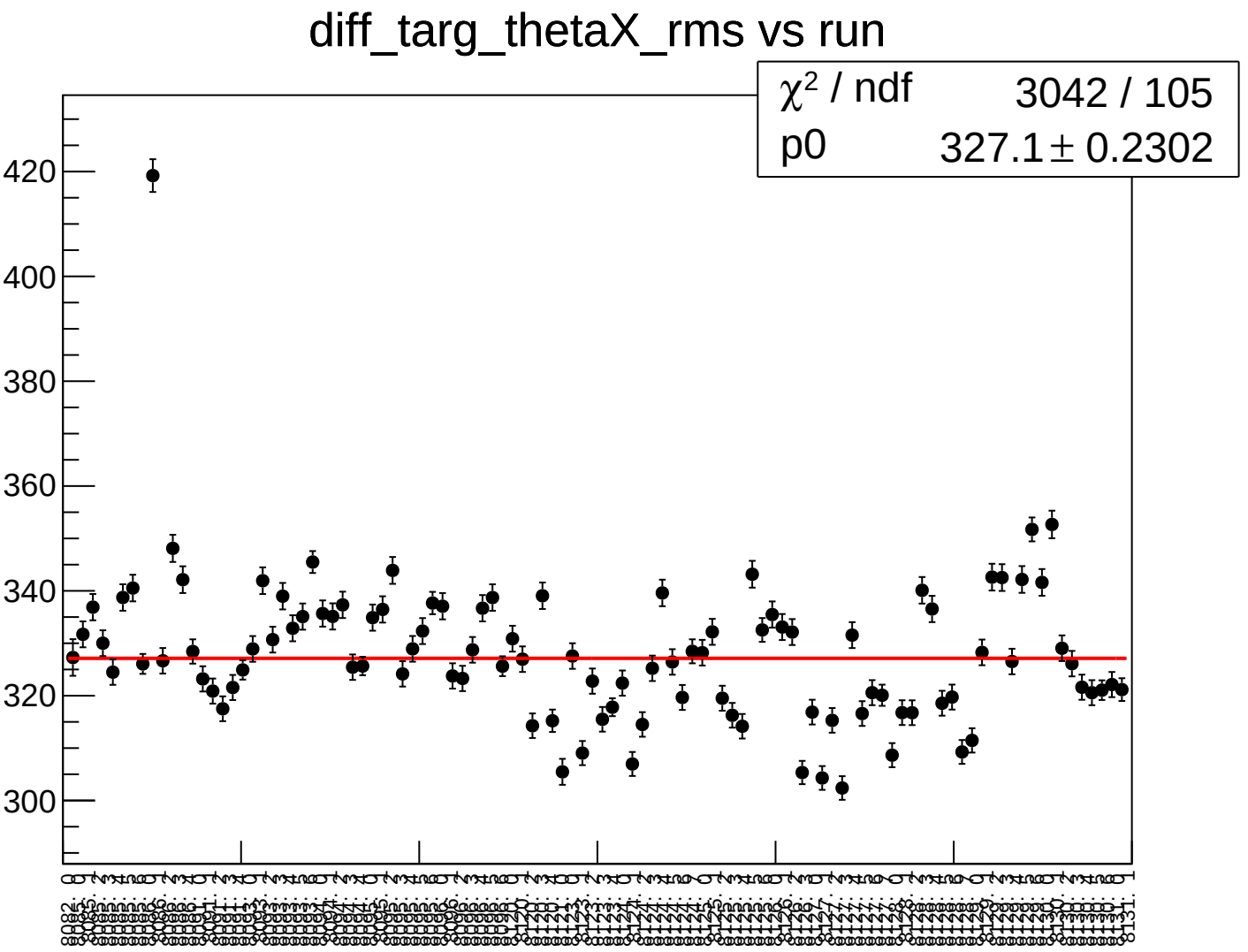

diff_targ_positionY_mean vs run
χ² / ndf 98.18 / 105
p0 0.6057 ± 6.024
pull
Entries 106
Mean −275.9
Std Dev 0

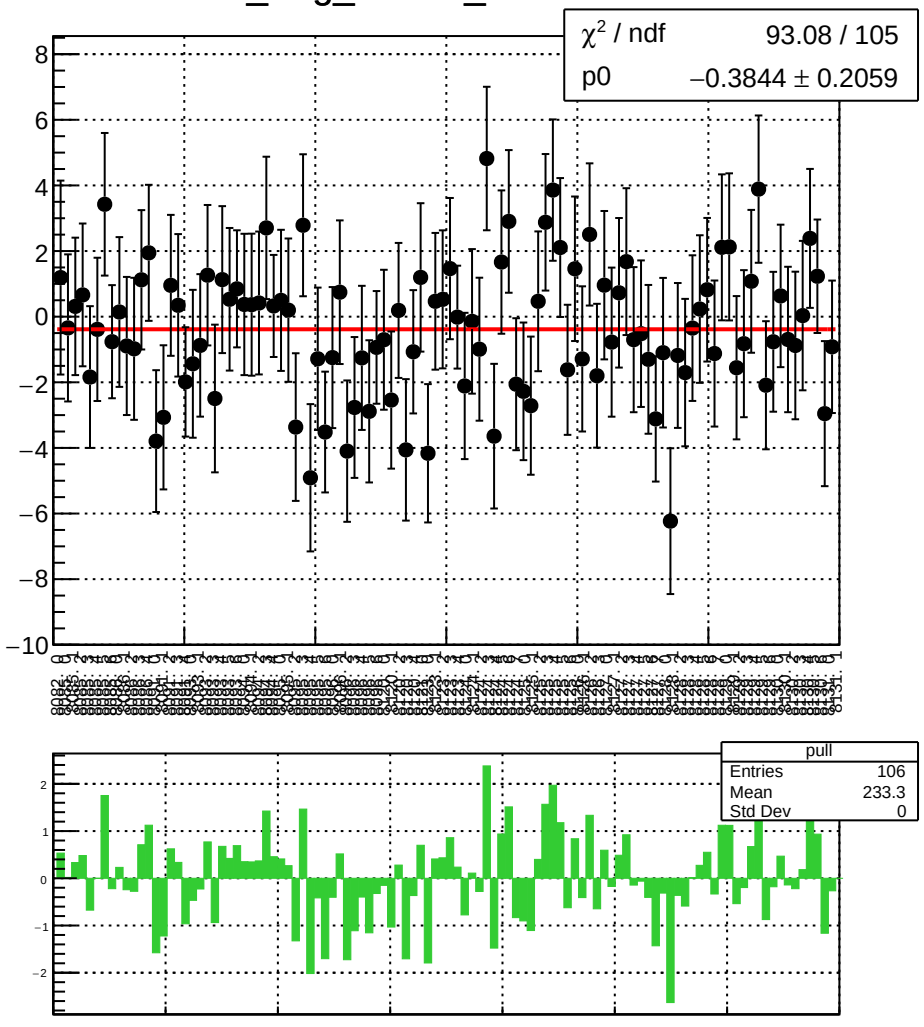

pull1D
Entries 106
Mean −0.003476
Std Dev 0.9624

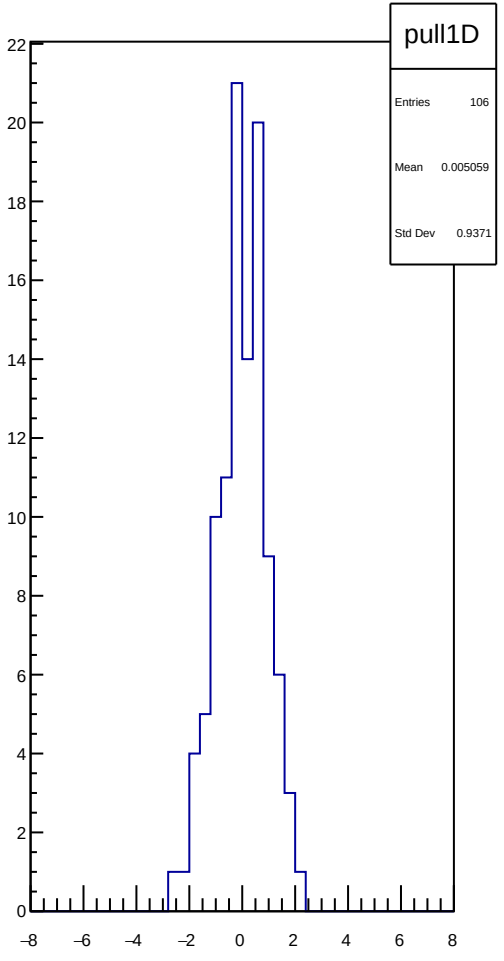

diff_targ_positionY_rms vs run
χ² / ndf 4.287e+04 / 105
p0 5994 ± 4.26
8500
8000
7500
7000
6500
6000
5500
5000
4500

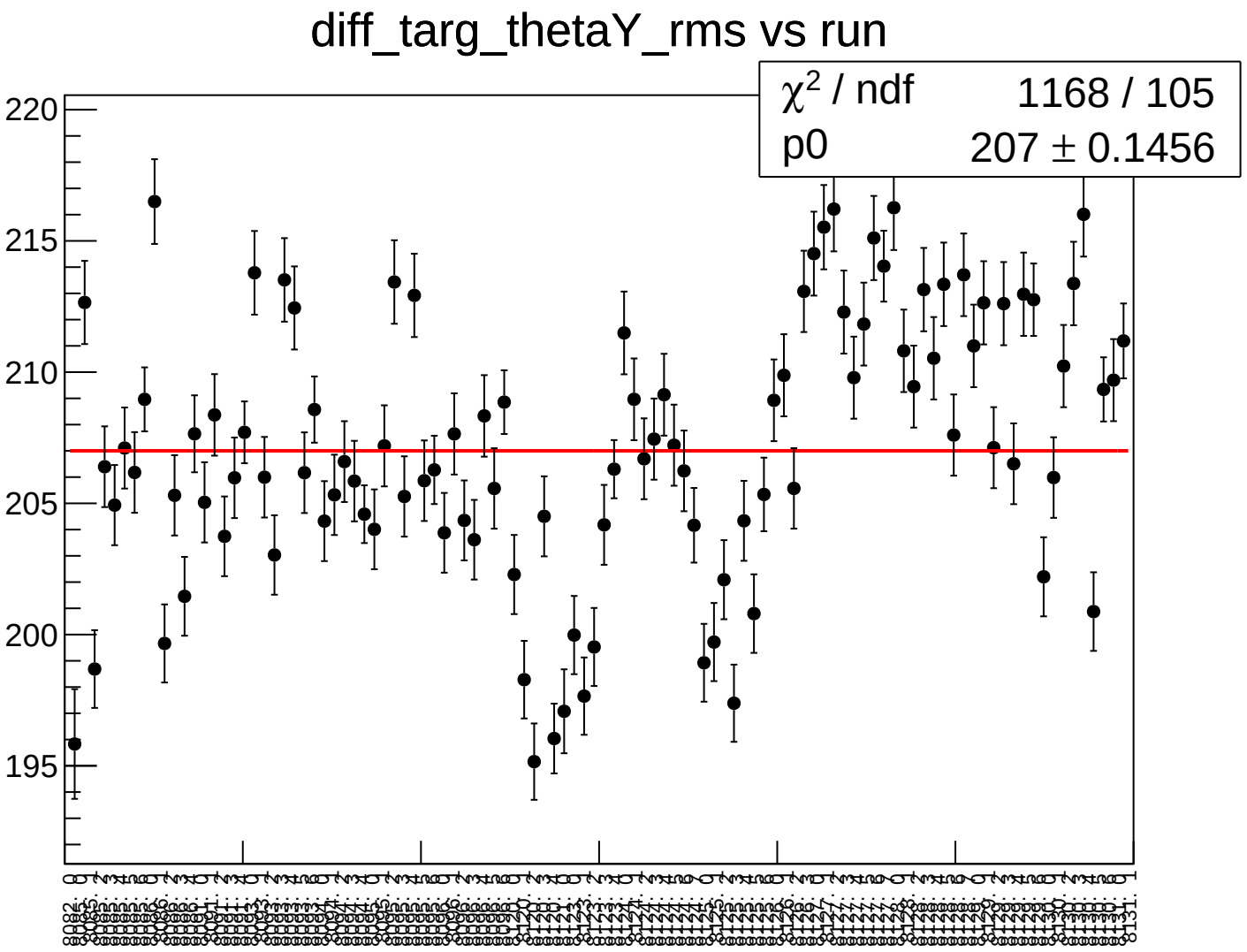

diff_targ_thetaX_mean vs run
χ² / ndf 82.33 / 105
p0 0.3061 ± 0.3255
pull
Entries 106
Mean 89.13
Std Dev 0

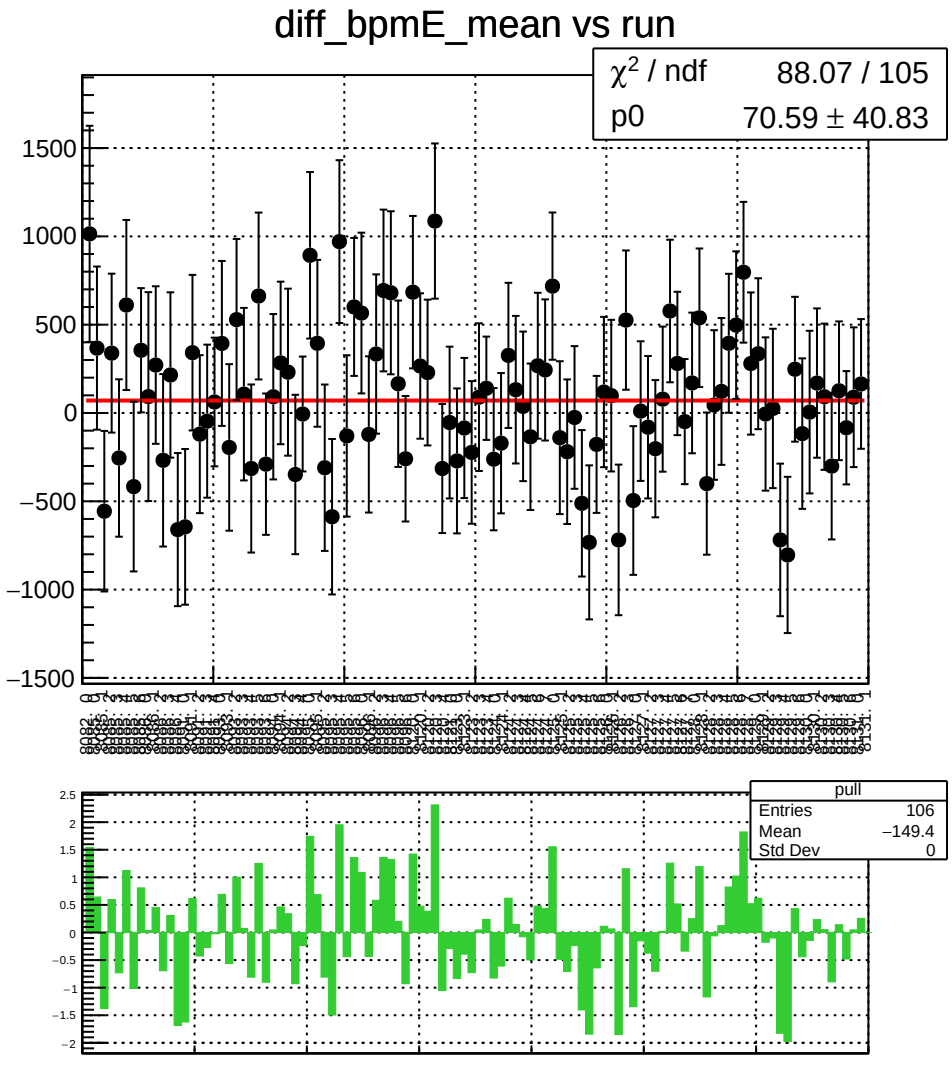

pull1D
Entries 106
Mean 0.007995
Std Dev 0.8813

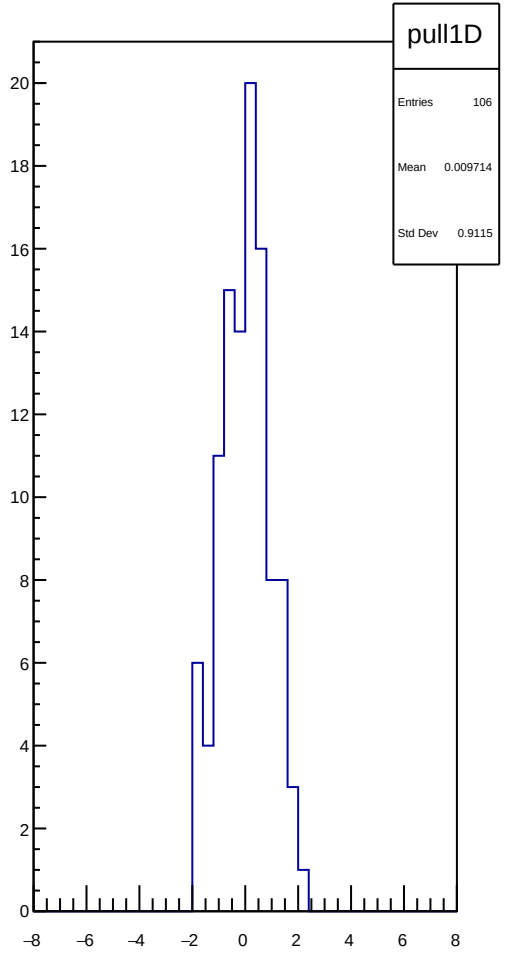

diff_targ_thetaX_rms vs run
χ² / ndf 3042 / 105
p0 327.1 ± 0.2302
420
400
380
360
340
320
300

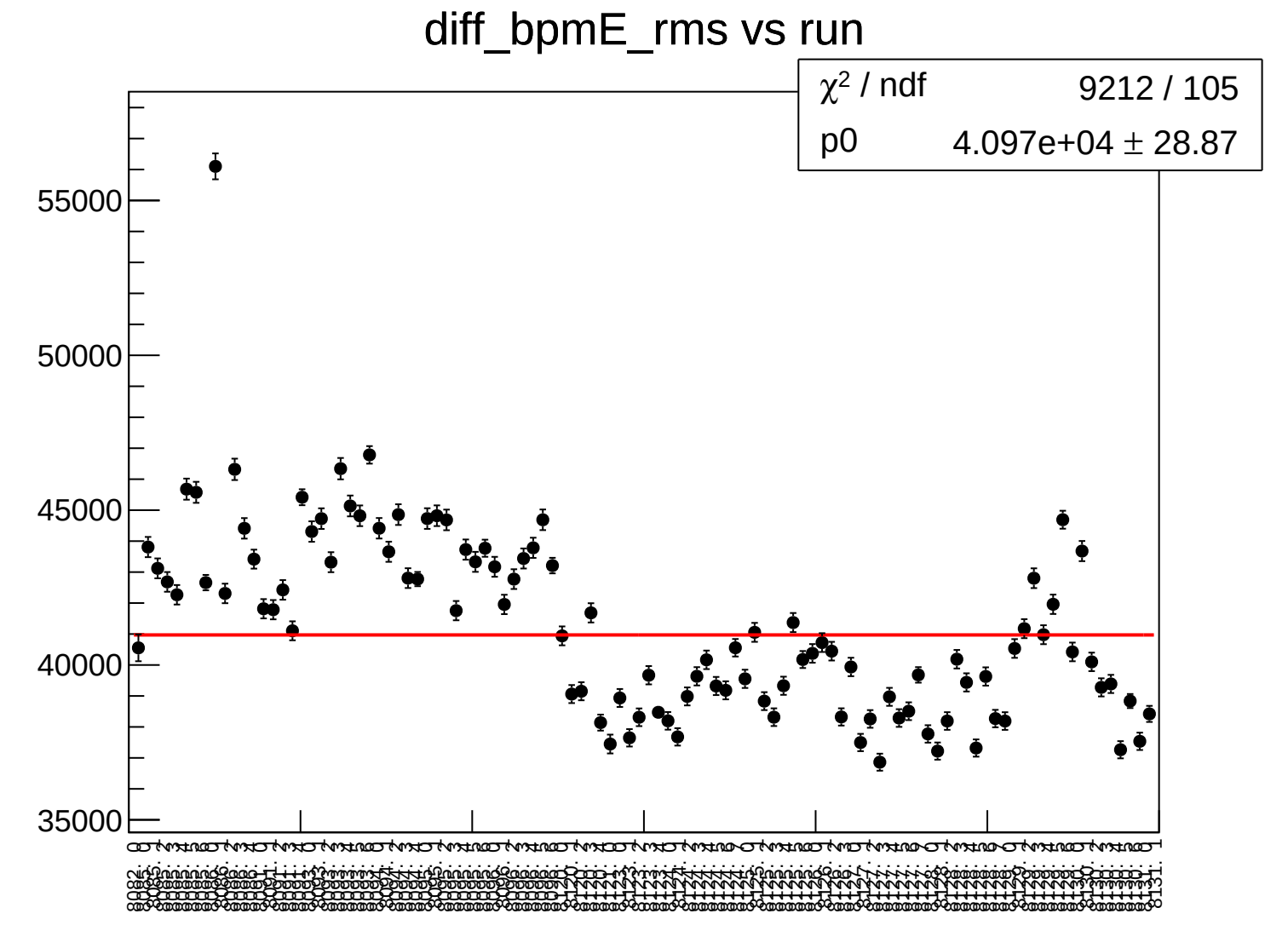

diff_targ_thetaY_mean vs run
χ² / ndf 93.08 / 105
p0 −0.3844 ± 0.2059
pull
Entries 106
Mean 233.3
Std Dev 0

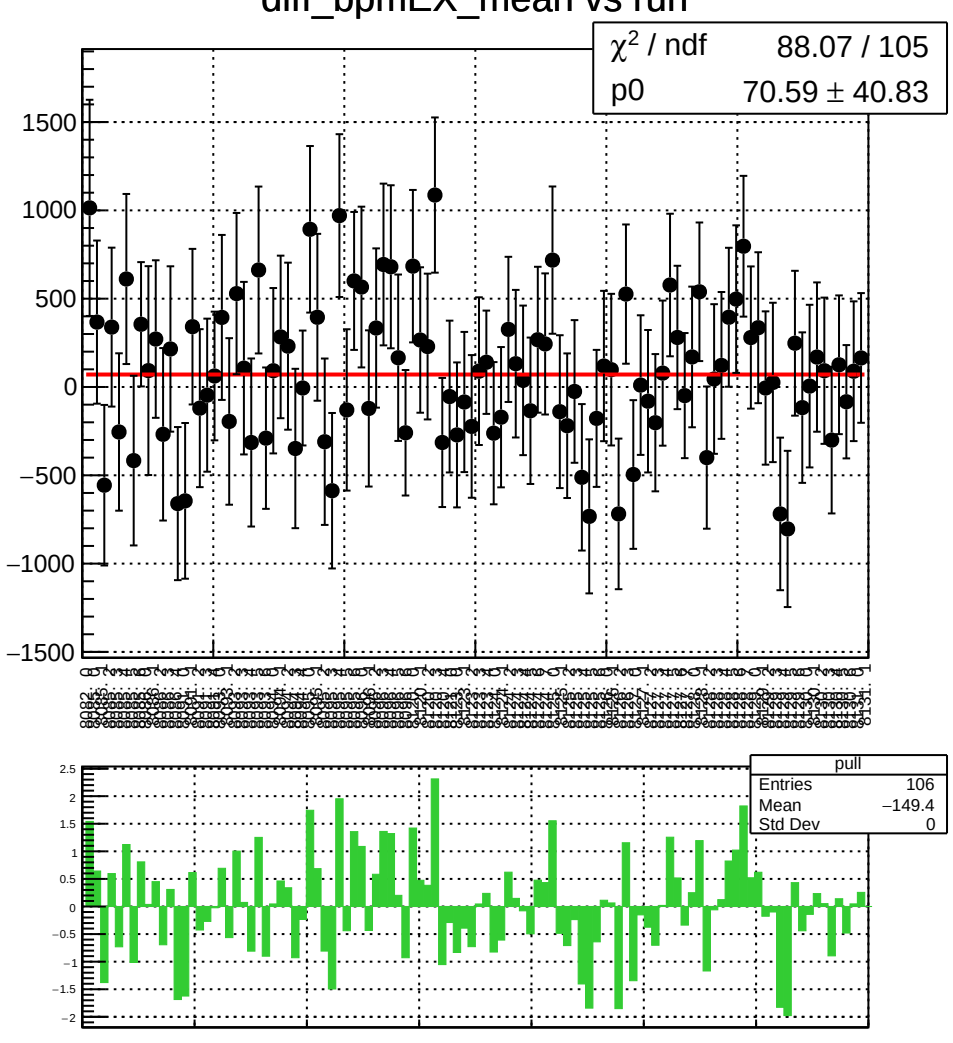

pull1D
Entries 106
Mean 0.005059
Std Dev 0.9371

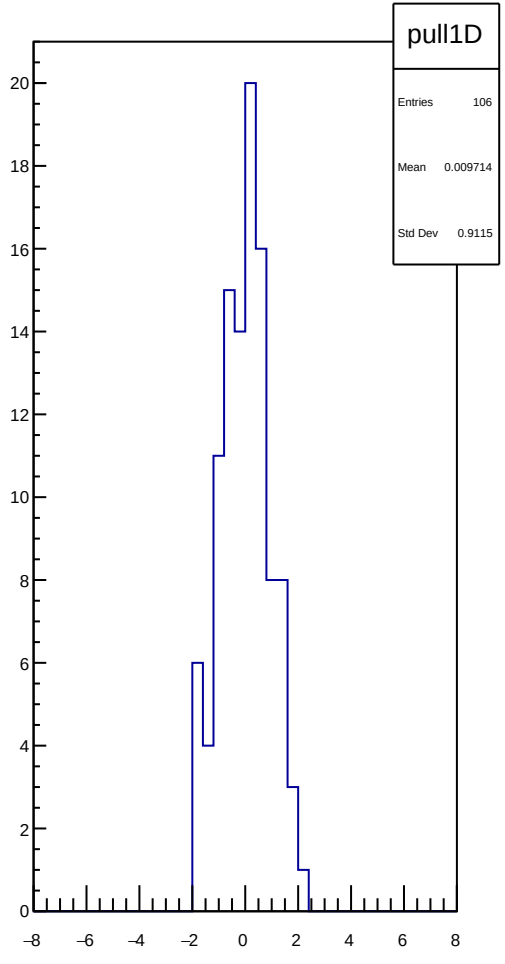

diff_targ_thetaY_rms vs run
χ² / ndf 1168 / 105
p0 207 ± 0.1456
220
215
210
205
200
195

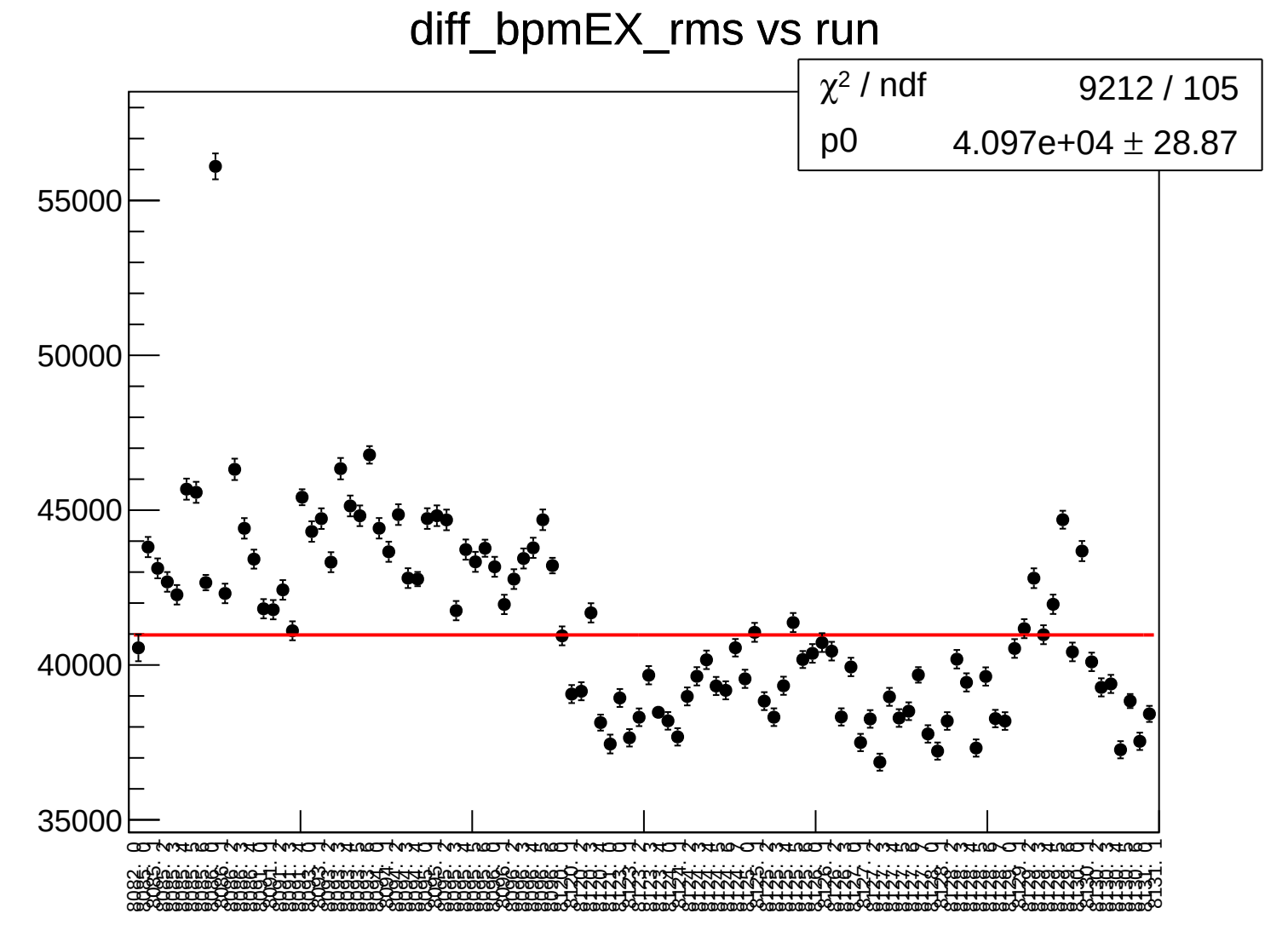

diff_bpmE_mean vs run
$\chi^2$ / ndf 88.07 / 105
p0 70.59 ± 40.83
1500
1000
500
0
−500
−1000
−1500
pull
Entries 106
Mean −149.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

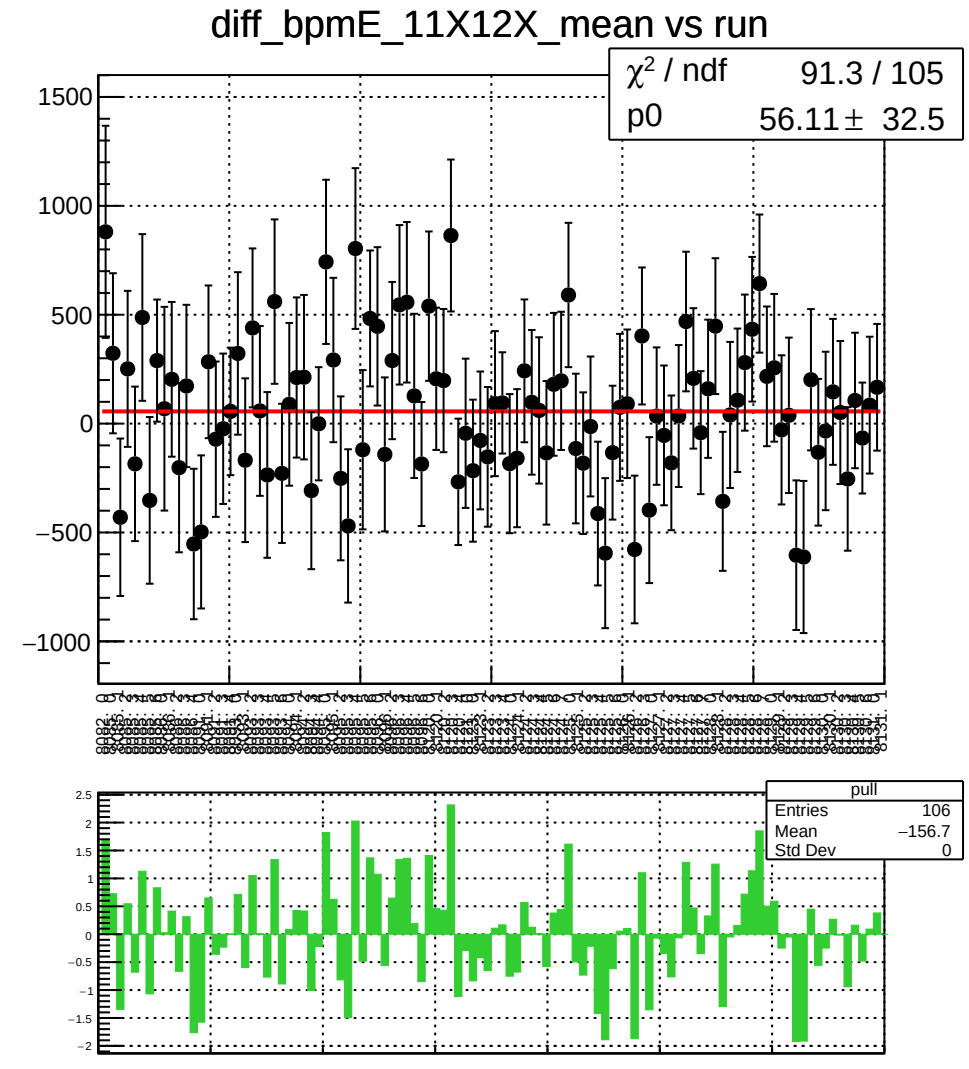

pull1D
Entries 106
Mean 0.009714
Std Dev 0.9115
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

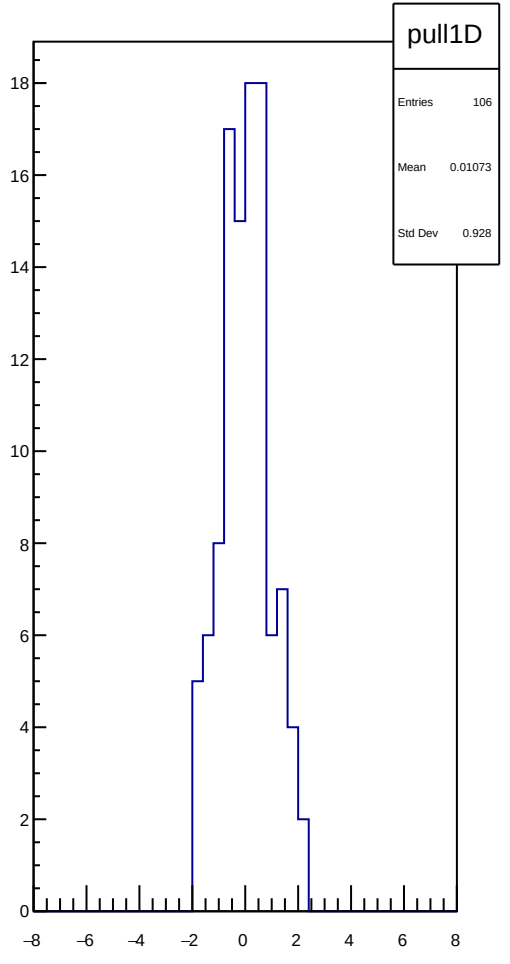

diff_bpmE_rms vs run
χ² / ndf 9212 / 105
p0 4.097e+04 ± 28.87
55000
50000
45000
40000
35000

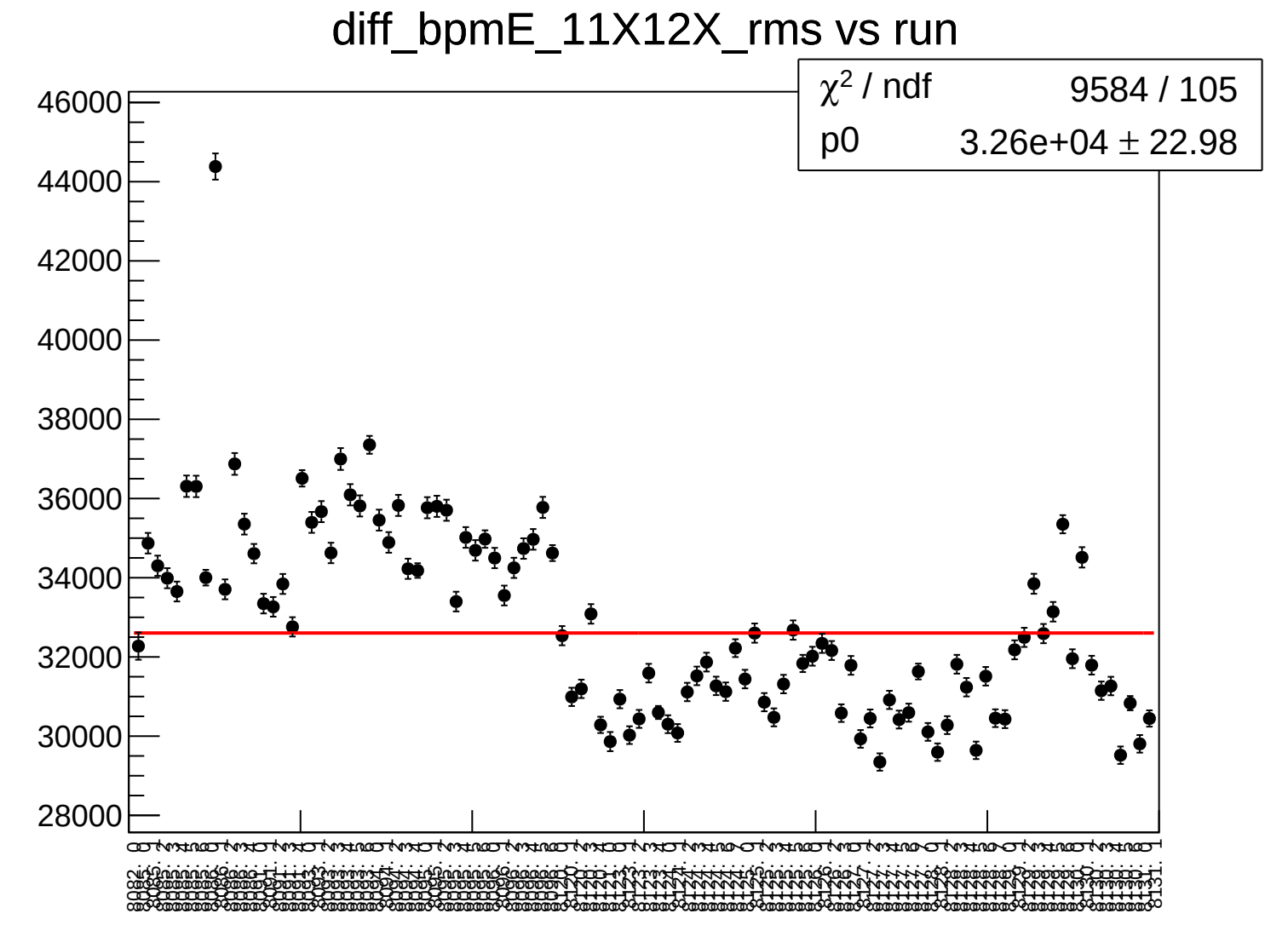

diff_bpmEX_mean vs run
$\chi^2$ / ndf 88.07 / 105
p0 70.59 ± 40.83
1500
1000
500
0
−500
−1000
−1500
pull
Entries 106
Mean −149.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

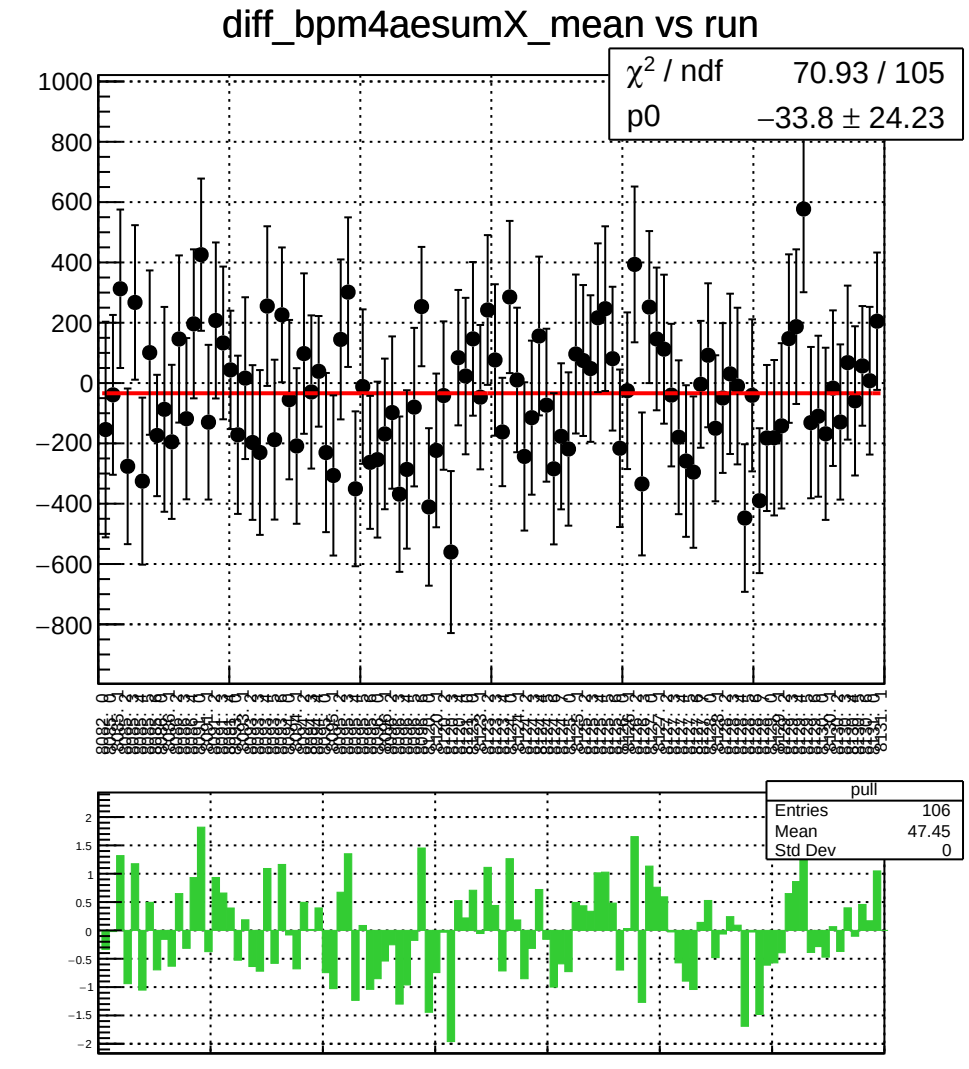

pull1D
Entries 106
Mean 0.009714
Std Dev 0.9115
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

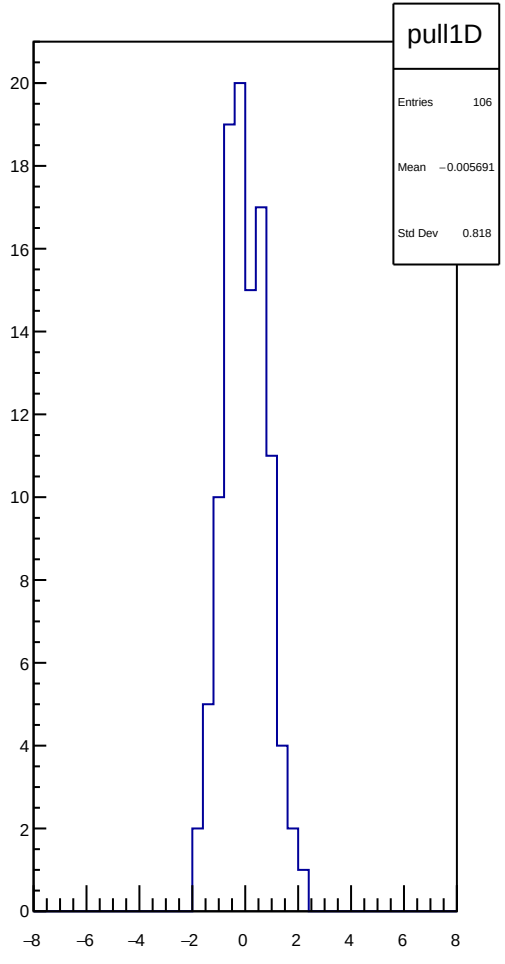

diff_bpmEX_rms vs run
χ² / ndf 9212 / 105
p0 4.097e+04 ± 28.87
55000
50000
45000
40000
35000

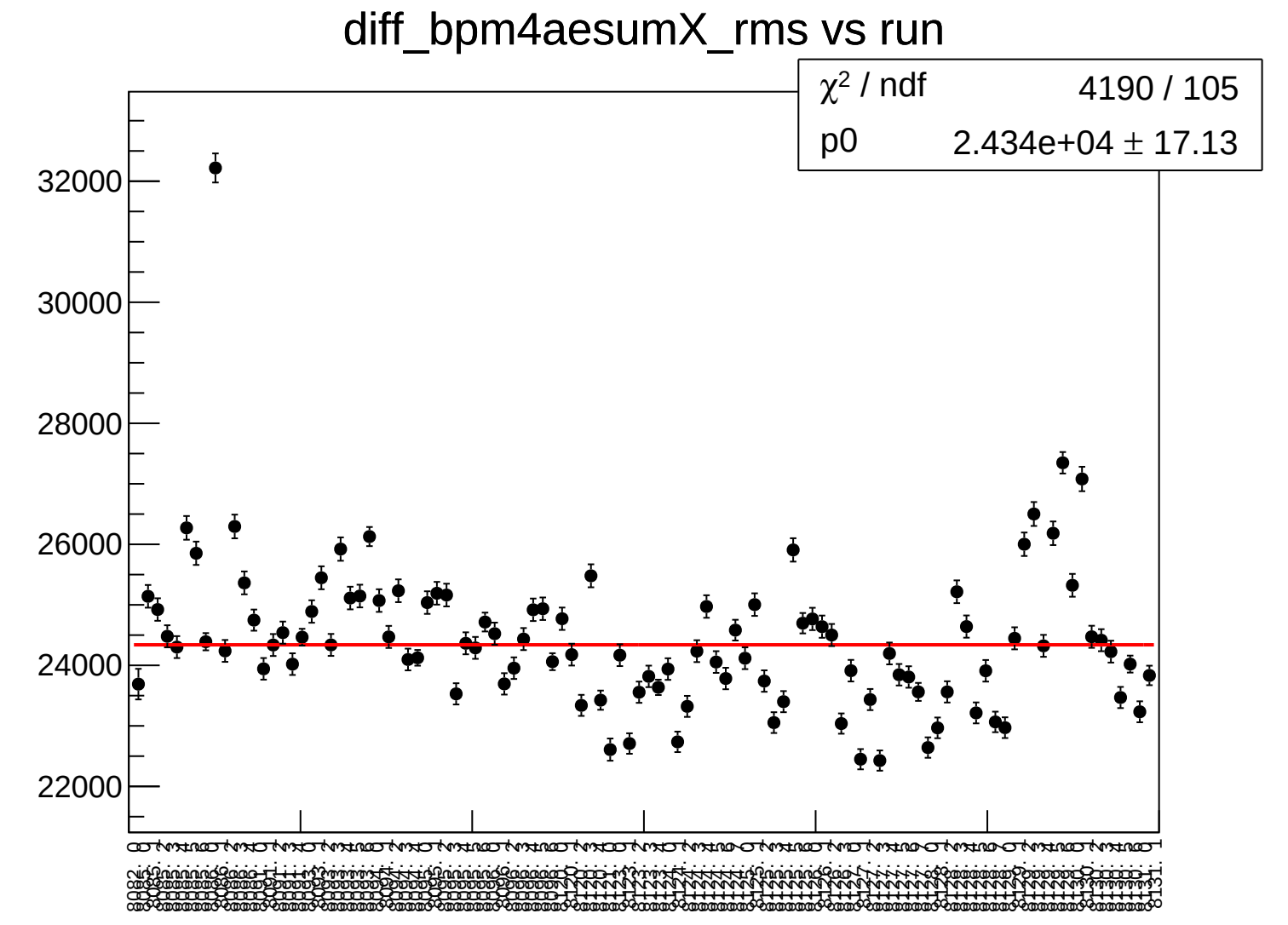

diff_bpmE_11X12X_mean vs run
χ² / ndf 91.3 / 105
p0 56.11 ± 32.5
1500
1000
500
0
−500
−1000
pull
Entries 106
Mean −156.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

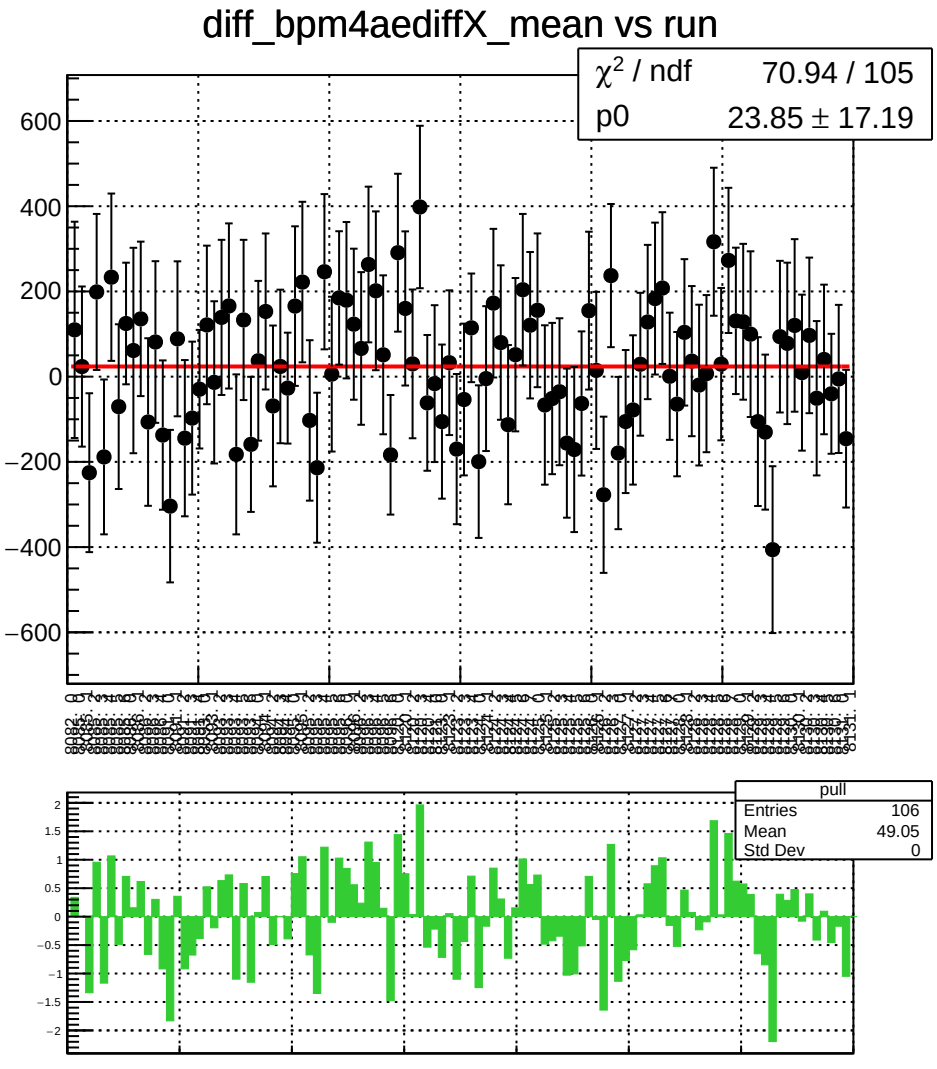

pull1D
Entries 106
Mean 0.01073
Std Dev 0.928
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

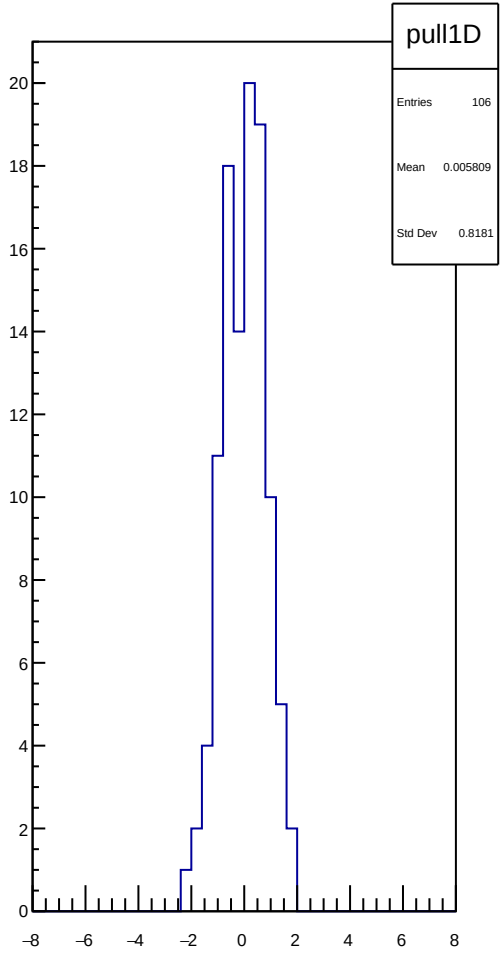

diff_bpmE_11X12X_rms vs run
χ² / ndf 9584 / 105
p0 3.26e+04 ± 22.98
46000
44000
42000
40000
38000
36000
34000
32000
30000
28000

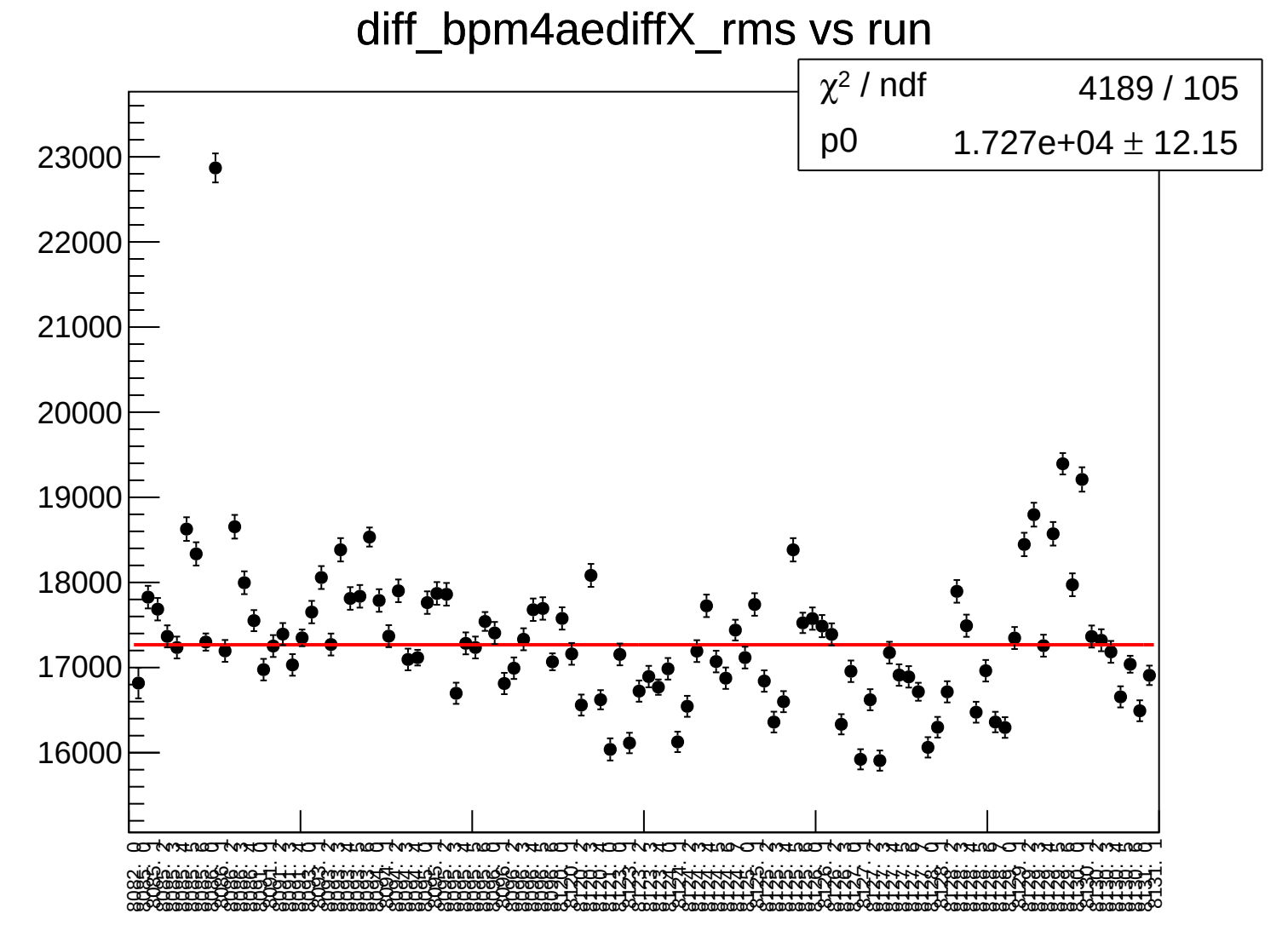

diff_bpm4aesumX_mean vs run
χ² / ndf 70.93 / 105
p0 −33.8 ± 24.23
pull
Entries 106
Mean 47.45
Std Dev 0

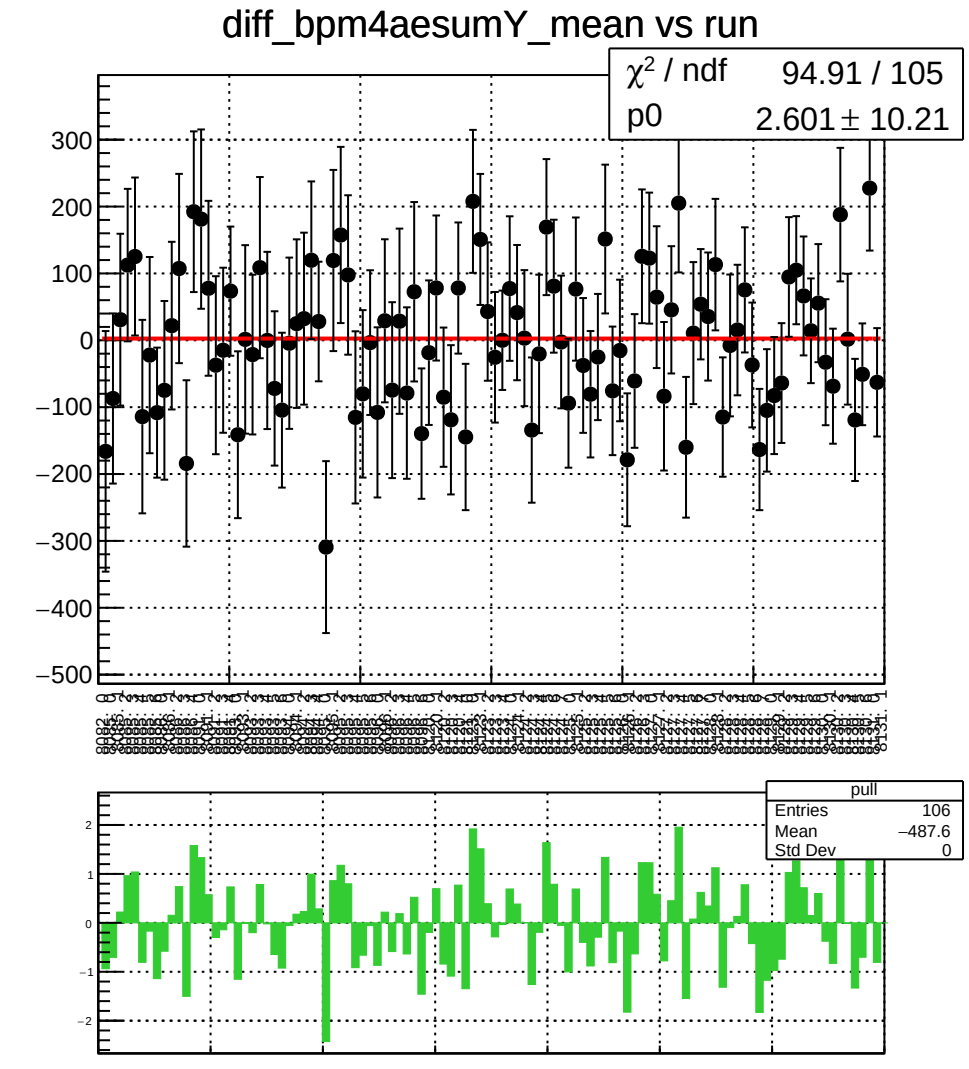

pull1D
Entries 106
Mean −0.005691
Std Dev 0.818

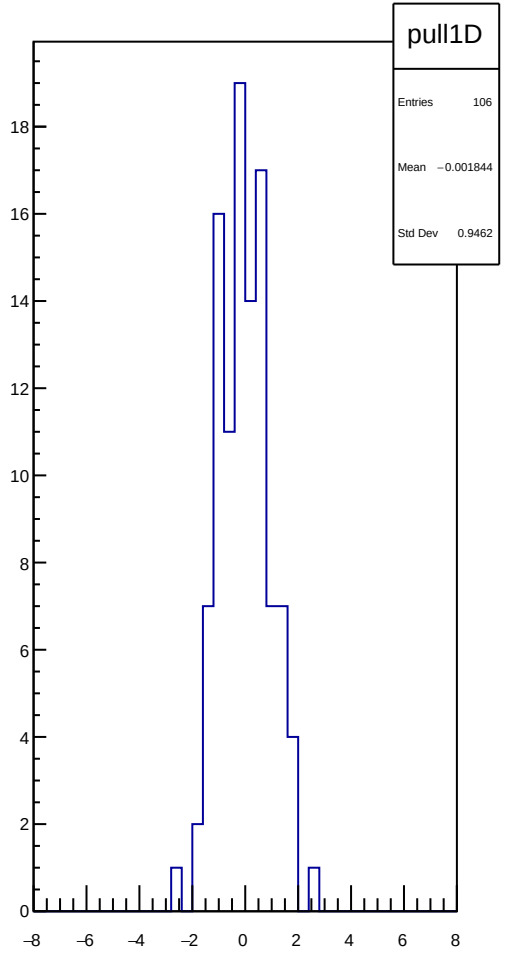

diff_bpm4aesumX_rms vs run
χ² / ndf 4190 / 105
p0 2.434e+04 ± 17.13
32000
30000
28000
26000
24000
22000

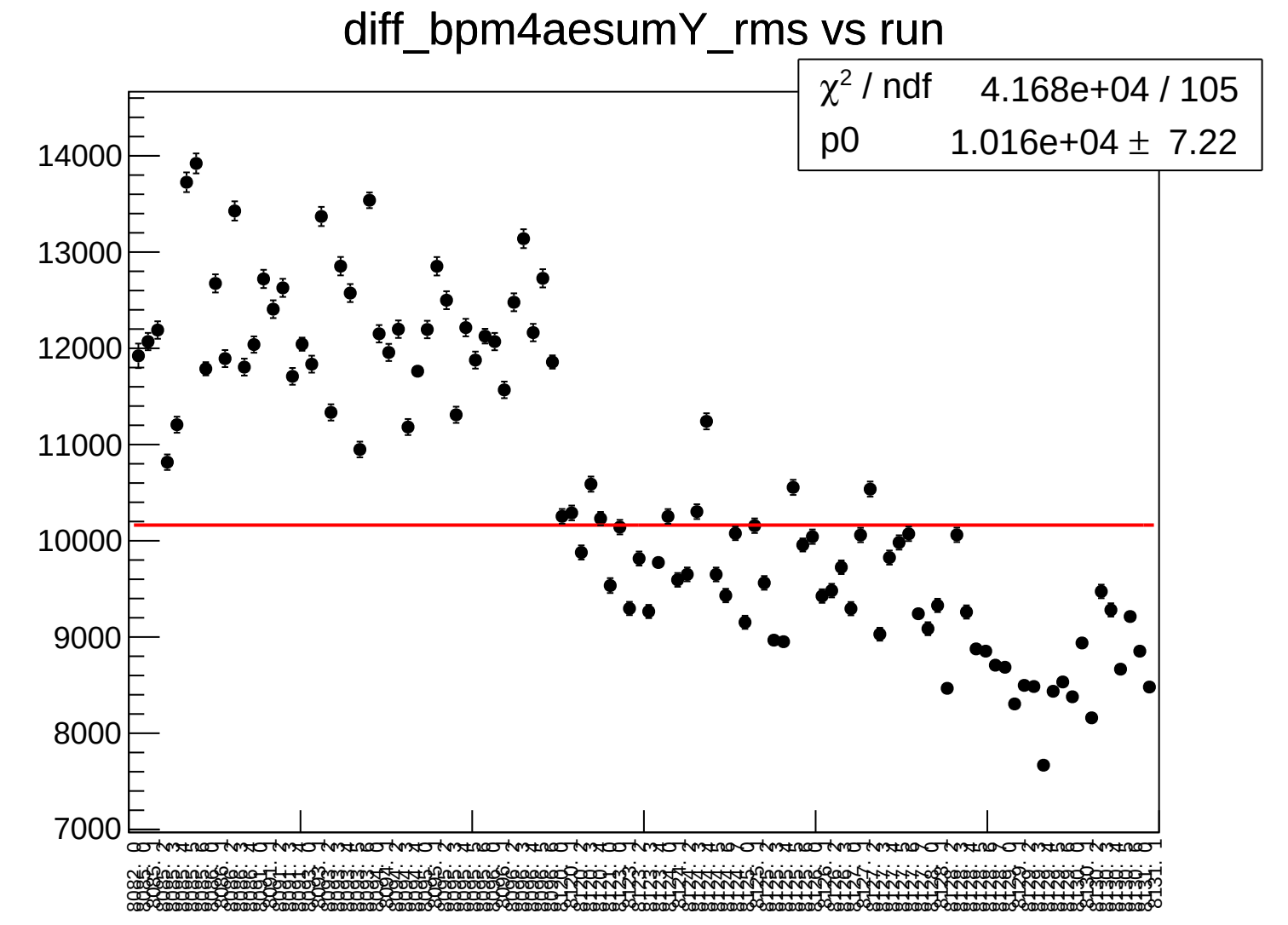

diff_bpm4aediffX_mean vs run
χ² / ndf 70.94 / 105
p0 23.85 ± 17.19
pull
Entries 106
Mean 49.05
Std Dev 0

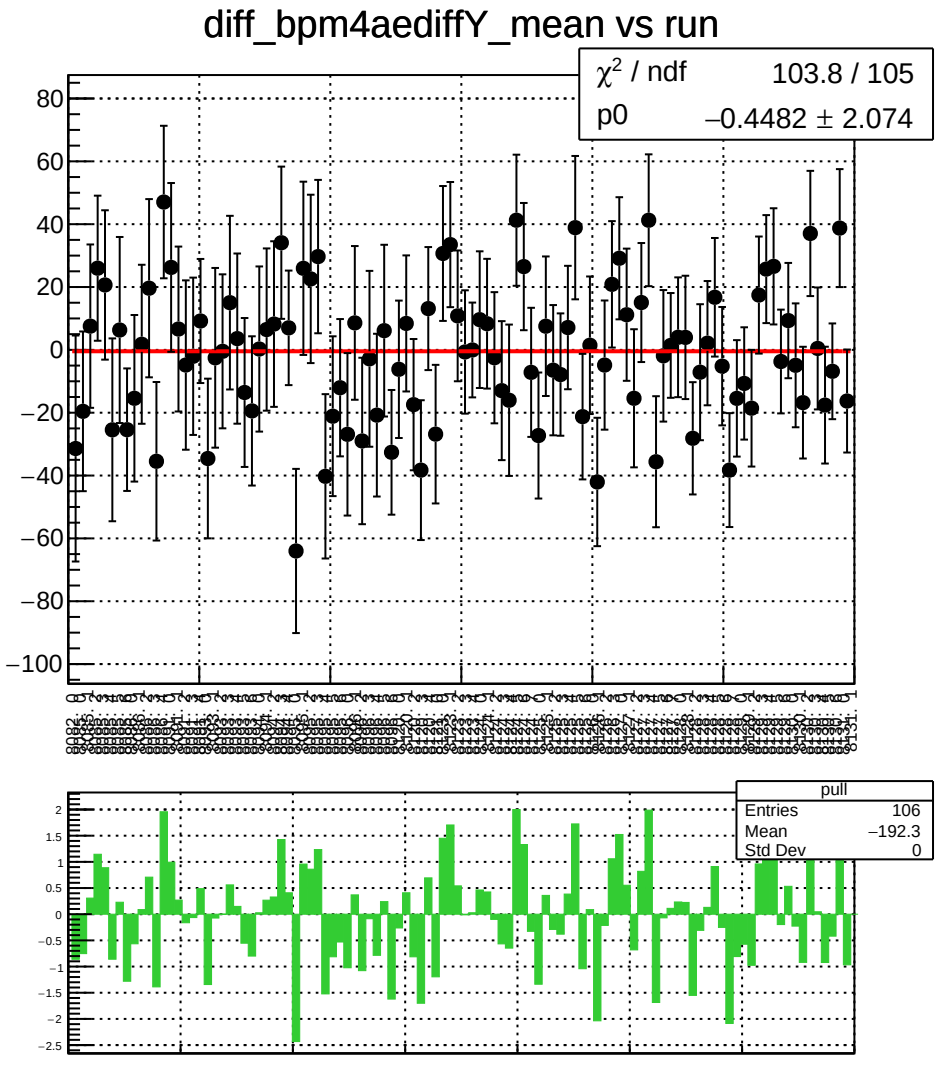

pull1D
Entries 106
Mean 0.005809
Std Dev 0.8181

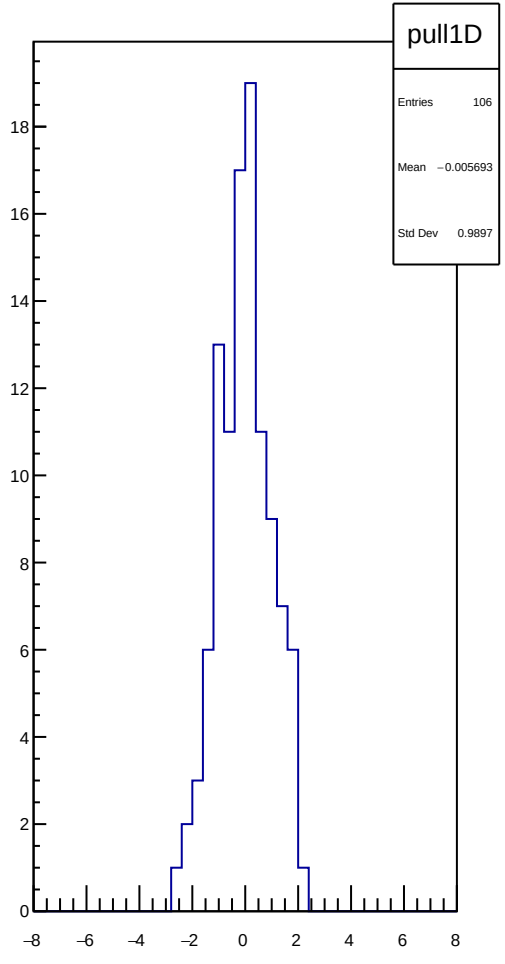

diff_bpm4aediffX_rms vs run
χ² / ndf 4189 / 105
p0 1.727e+04 ± 12.15
23000
22000
21000
20000
19000
18000
17000
16000

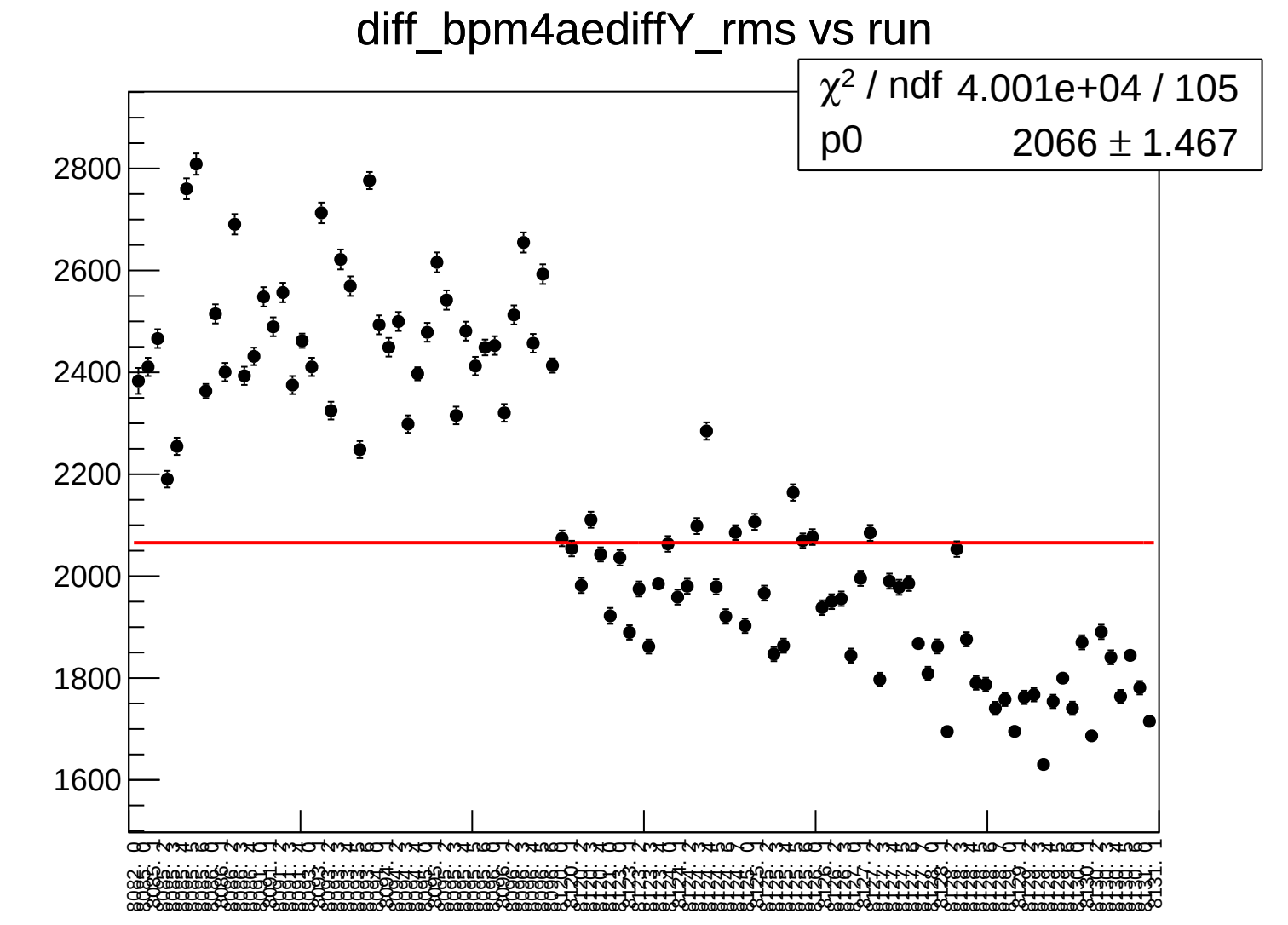

diff_bpm4aesumY_mean vs run
χ² / ndf 94.91 / 105
p0 2.601 ± 10.21
pull
Entries 106
Mean −487.6
Std Dev 0

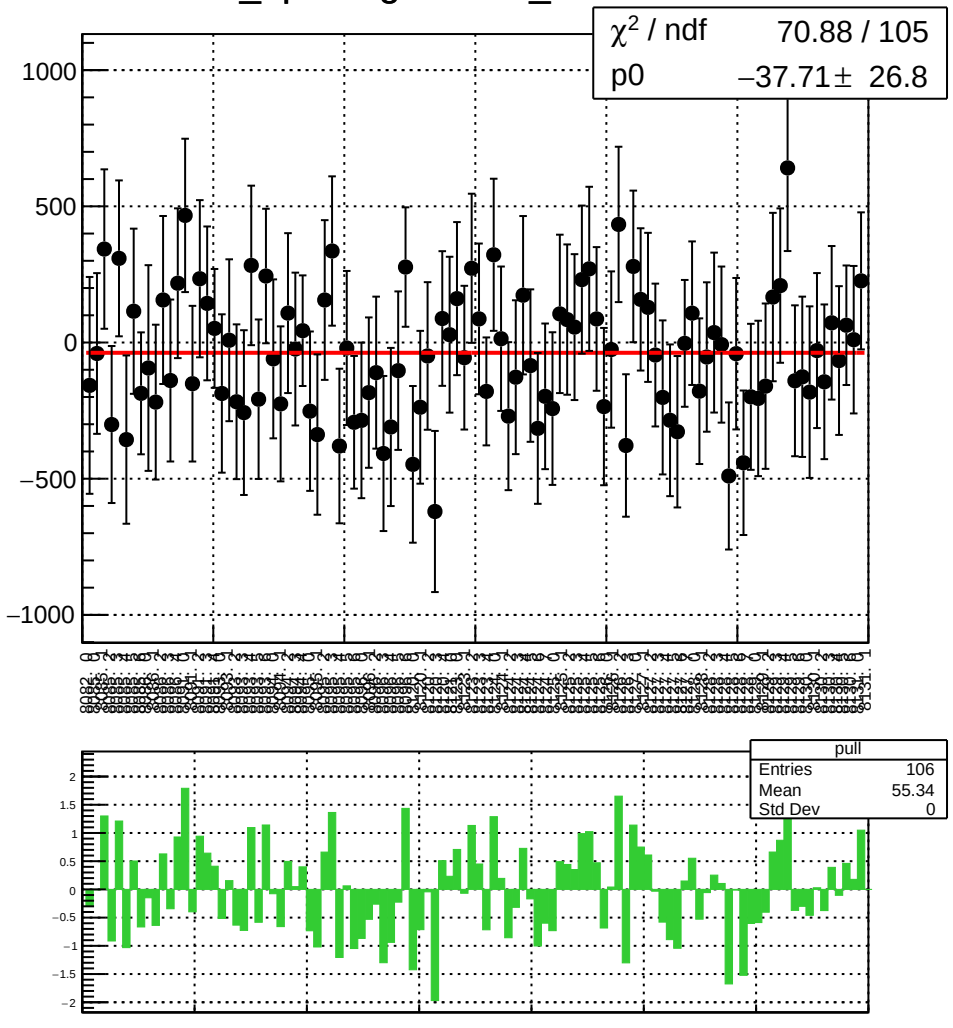

pull1D
Entries 106
Mean −0.001844
Std Dev 0.9462

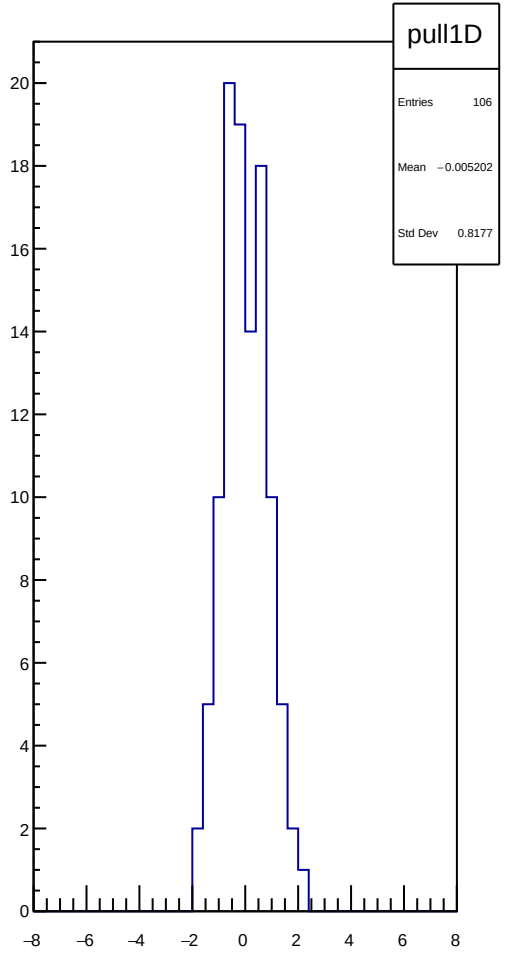

diff_bpm4aesumY_rms vs run
χ² / ndf 4.168e+04 / 105
p0 1.016e+04 ± 7.22
14000
13000
12000
11000
10000
9000
8000
7000

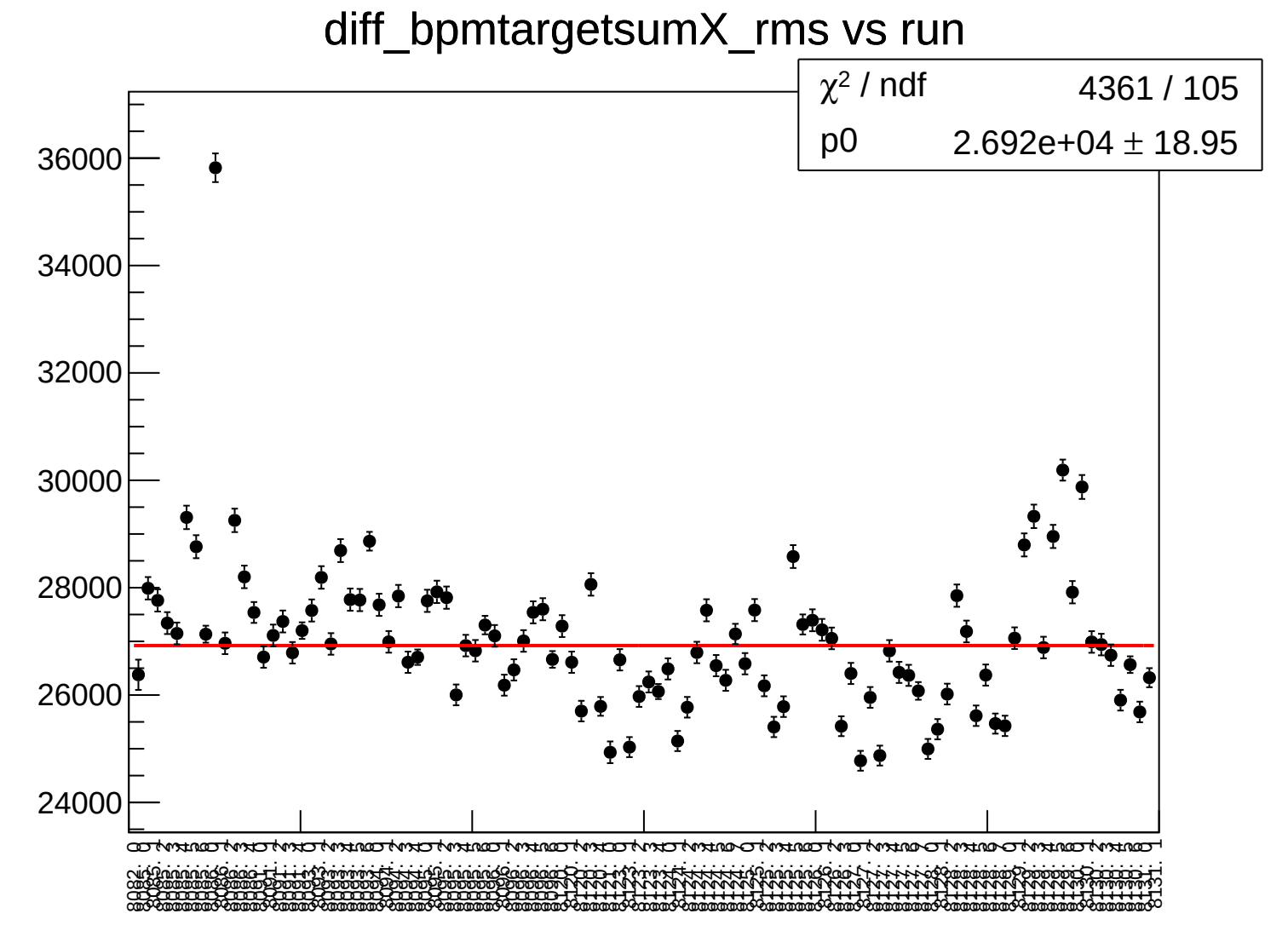

diff_bpm4aediffY_mean vs run
χ² / ndf 103.8 / 105
p0 −0.4482 ± 2.074
pull
Entries 106
Mean −192.3
Std Dev 0

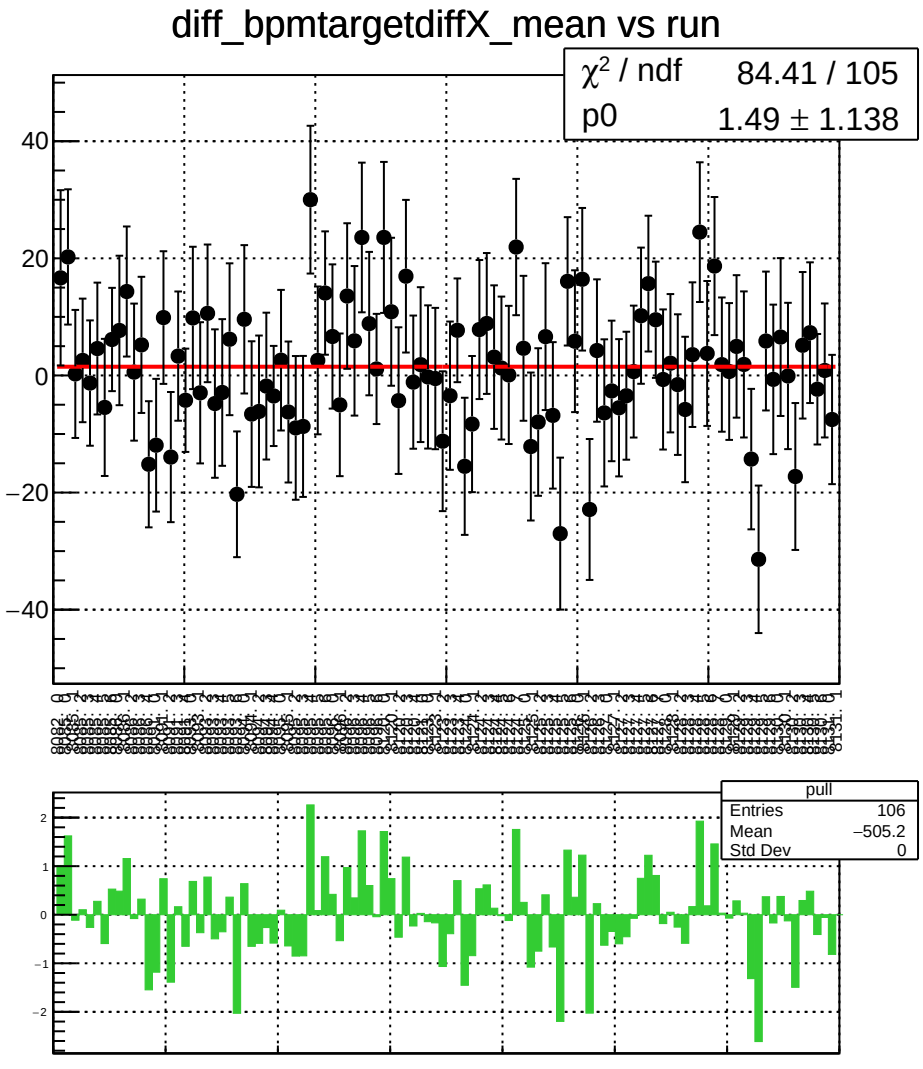

pull1D
Entries 106
Mean −0.005693
Std Dev 0.9897

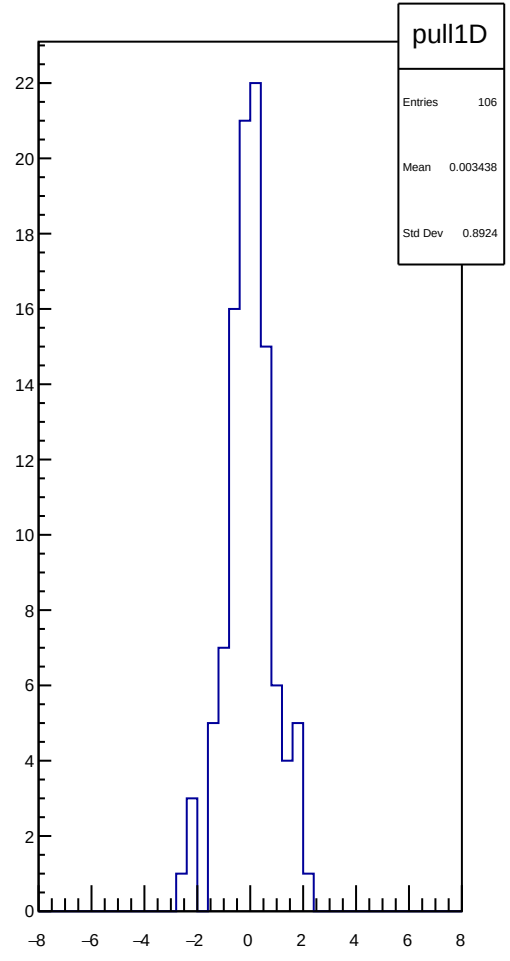

diff_bpm4aediffY_rms vs run
χ² / ndf 4.001e+04 / 105
p0 2066 ± 1.467
2800
2600
2400
2200
2000
1800
1600

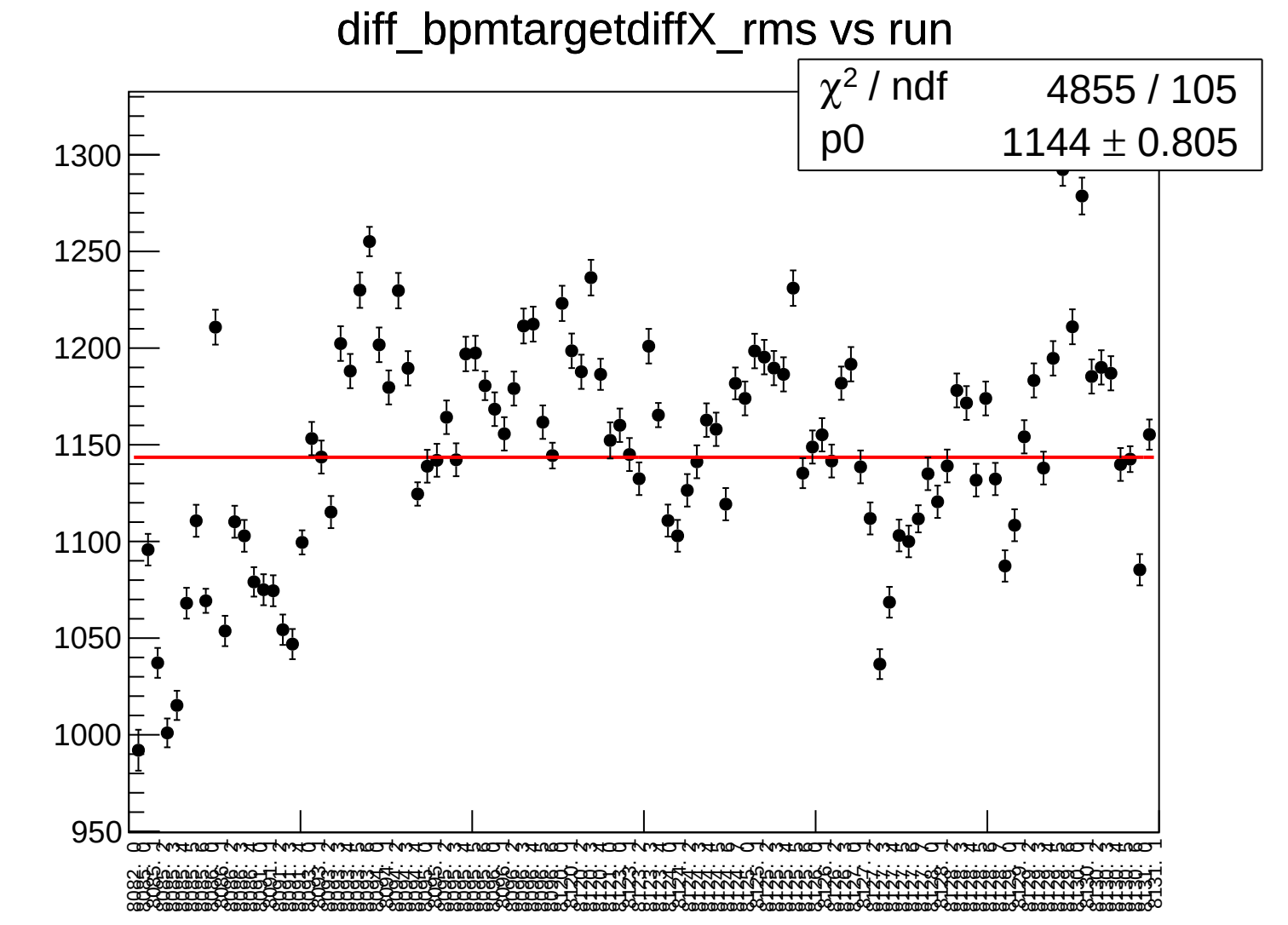

diff_bpmtargetsumX_mean vs run
χ² / ndf 70.88 / 105
p0 −37.71 ± 26.8
1000
500
0
−500
−1000
pull
Entries 106
Mean 55.34
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

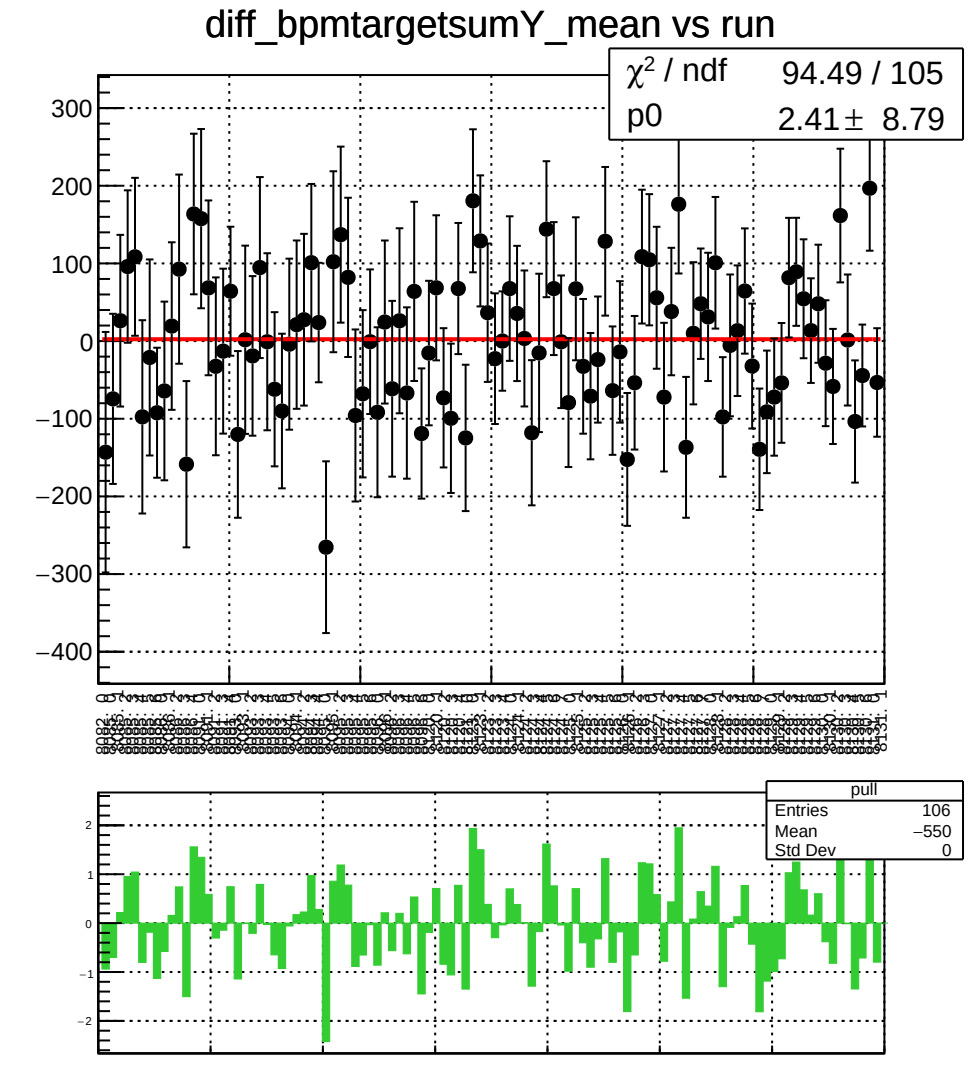

pull1D
Entries 106
Mean −0.005202
Std Dev 0.8177
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

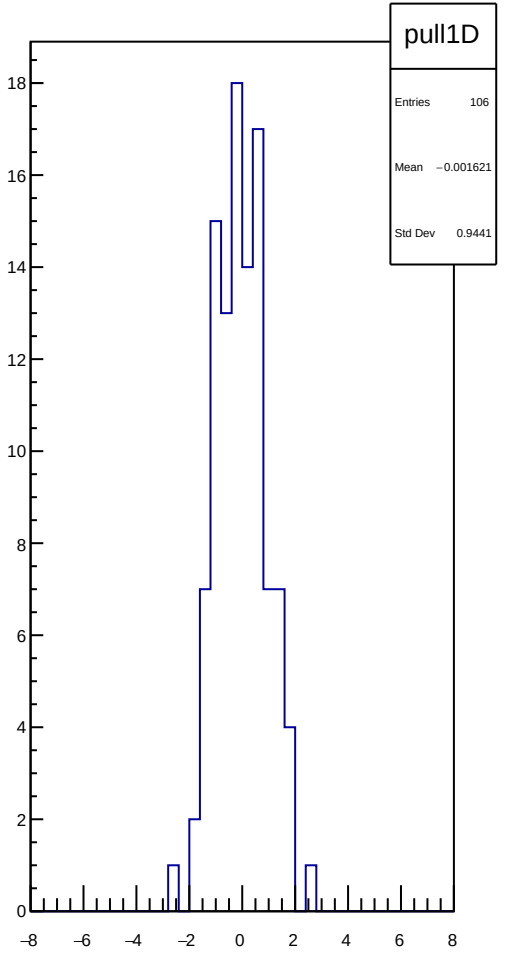

diff_bpmtargetsumX_rms vs run
χ² / ndf 4361 / 105
p0 2.692e+04 ± 18.95
36000
34000
32000
30000
28000
26000
24000

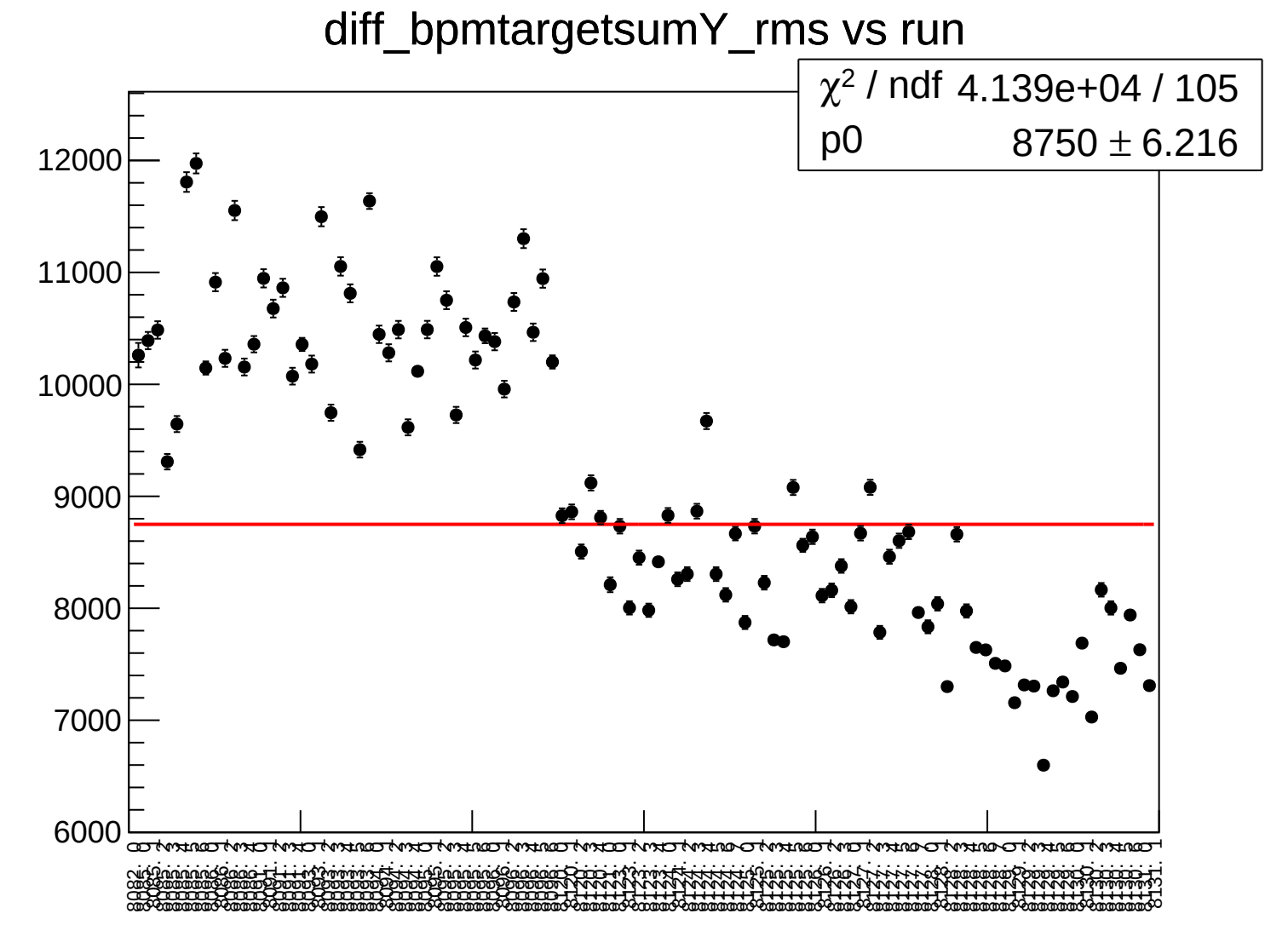

diff_bpmtargetdiffX_mean vs run
χ² / ndf 84.41 / 105
p0 1.49 ± 1.138
pull
Entries 106
Mean −505.2
Std Dev 0

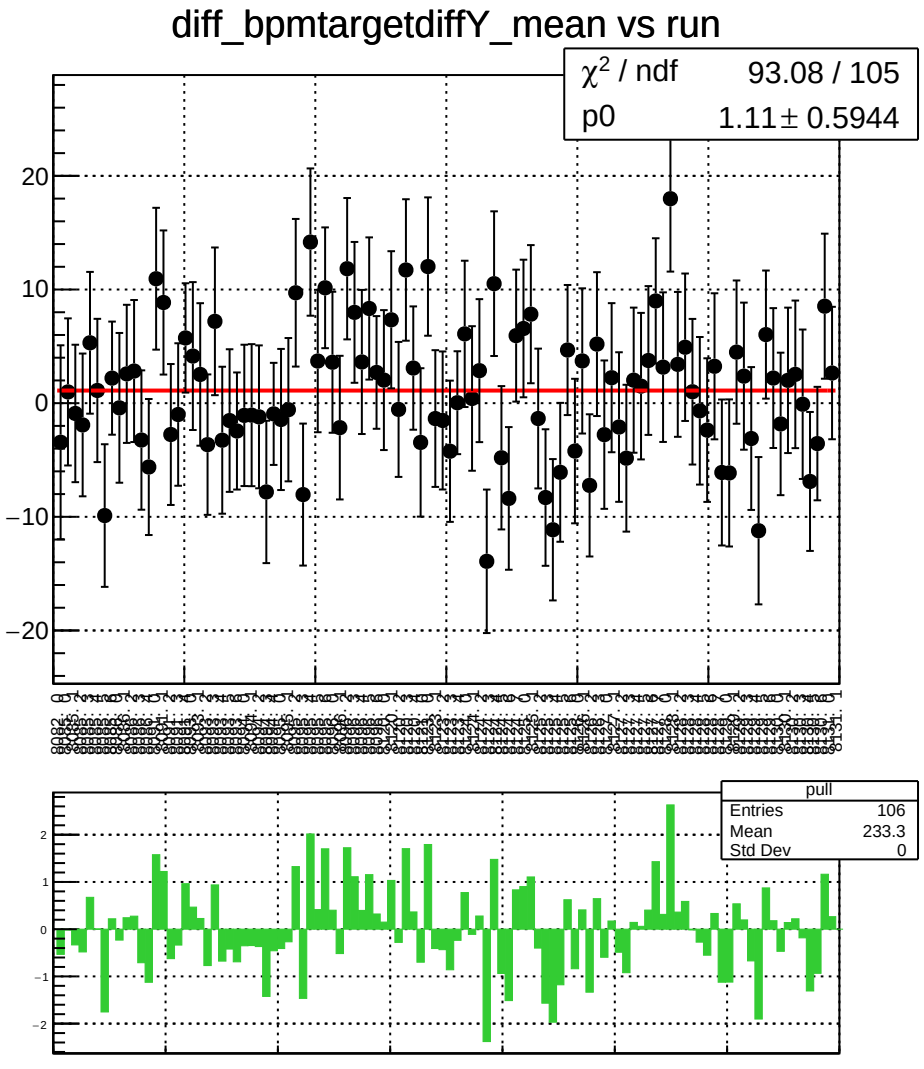

pull1D
Entries 106
Mean 0.003438
Std Dev 0.8924

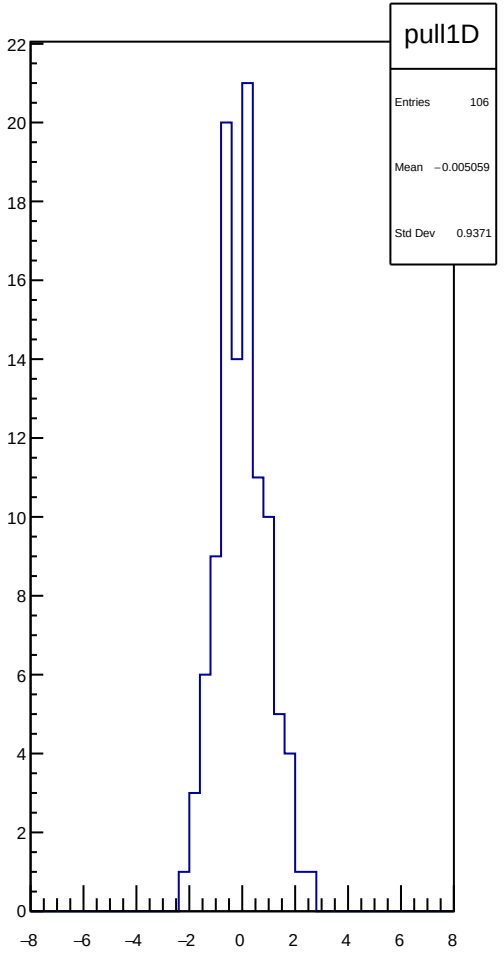

diff_bpmtargetdiffX_rms vs run
χ² / ndf 4855 / 105
p0 1144 ± 0.805
1300
1250
1200
1150
1100
1050
1000
950

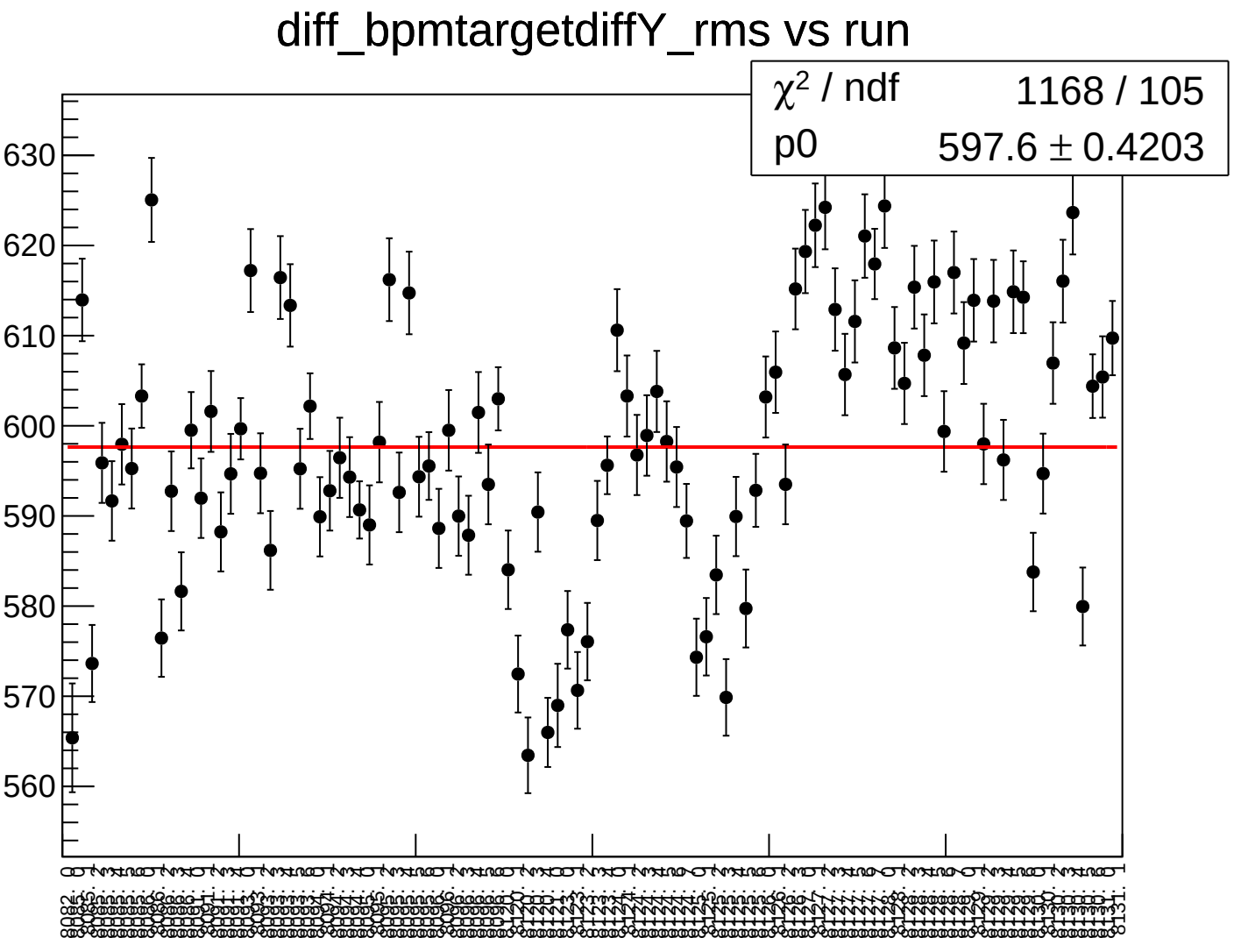

diff_bpmtargetsumY_mean vs run
χ² / ndf 94.49 / 105
p0 2.41 ± 8.79
300
200
100
0
−100
−200
−300
−400
pull
Entries 106
Mean −550
Std Dev 0
2
1
0
−1
−2

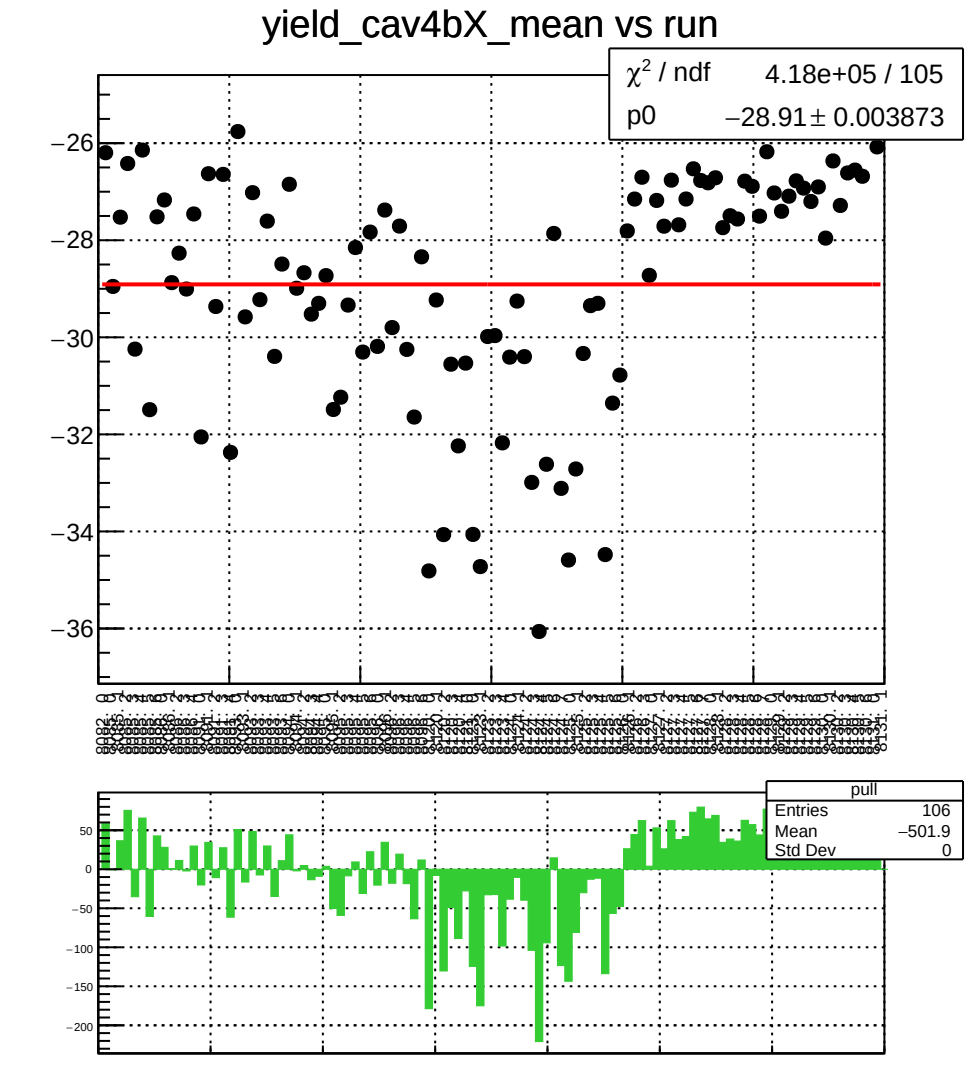

pull1D
Entries 106
Mean −0.001621
Std Dev 0.9441
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

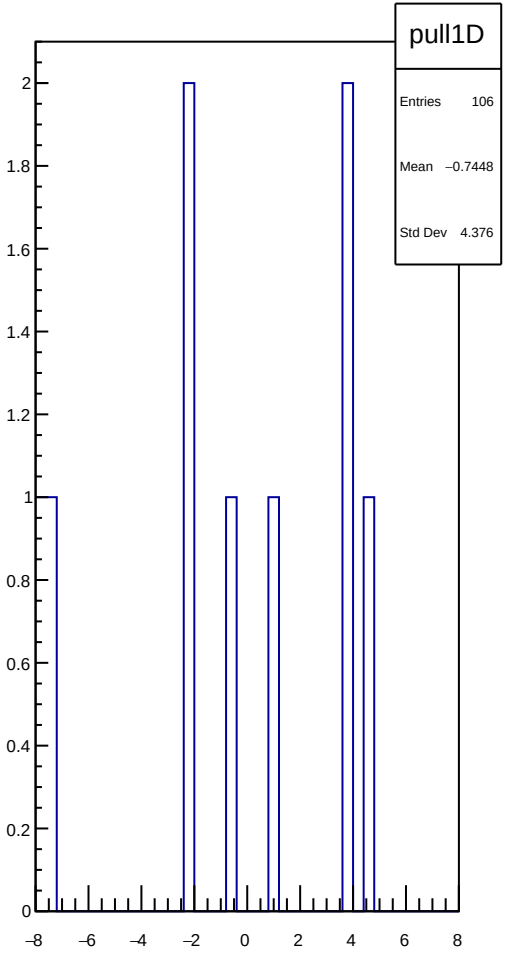

diff_bpmtargetsumY_rms vs run
χ² / ndf 4.139e+04 / 105
p0 8750 ± 6.216
12000
11000
10000
9000
8000
7000
6000

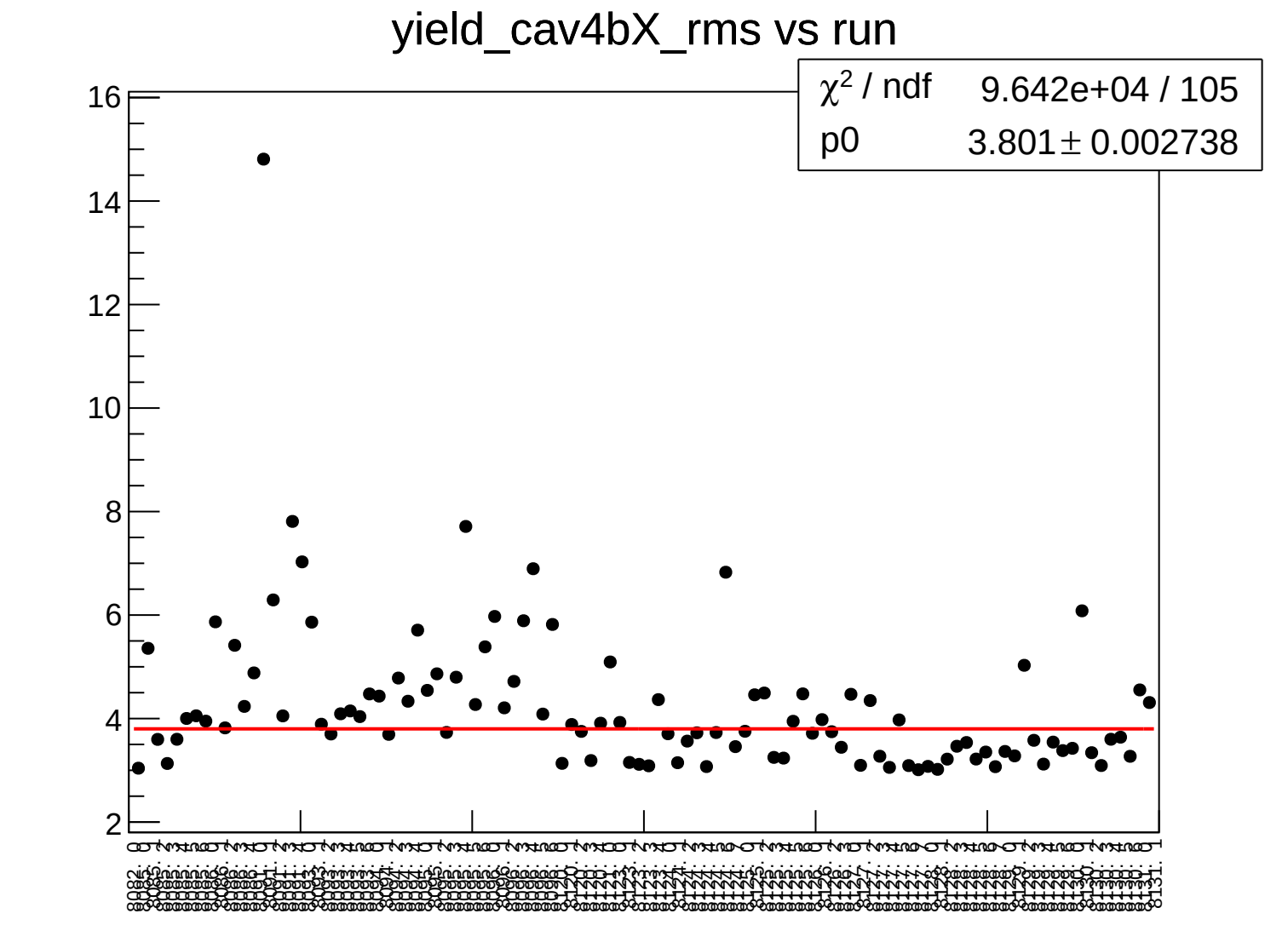

diff_bpmtargetdiffY_mean vs run
χ² / ndf 93.08 / 105
p0 1.11 ± 0.5944
20
10
0
−10
−20
pull
Entries 106
Mean 233.3
Std Dev 0
2
1
0
−1
−2

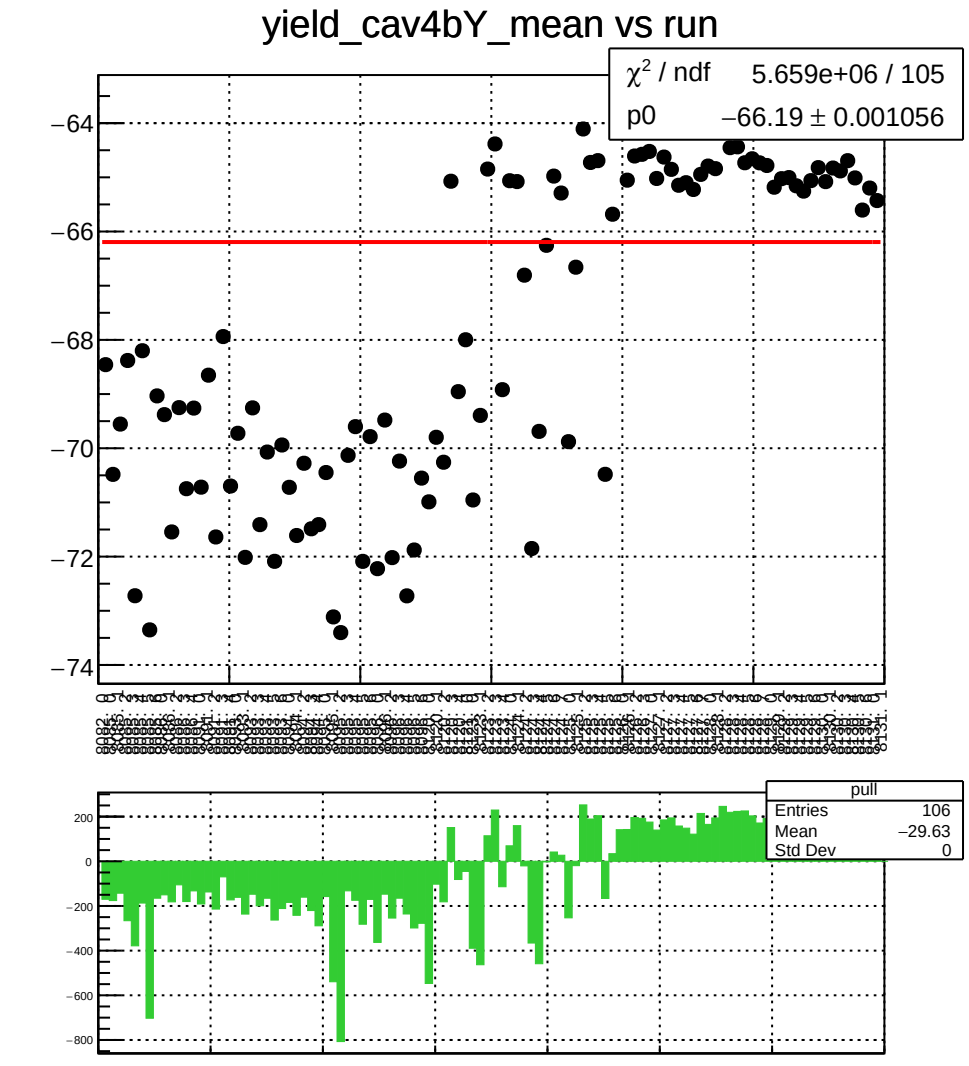

pull1D
Entries 106
Mean −0.005059
Std Dev 0.9371
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

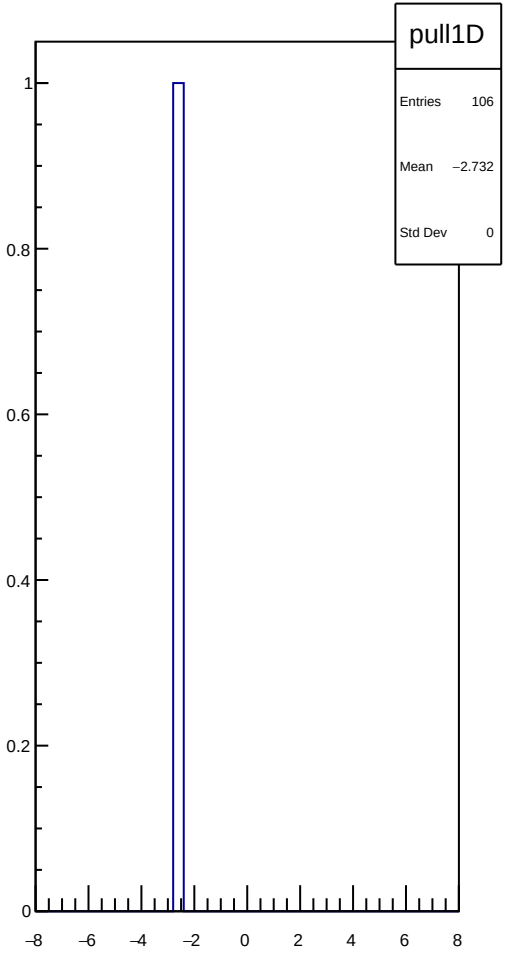

diff_bpmtargetdiffY_rms vs run
χ² / ndf 1168 / 105
p0 597.6 ± 0.4203
630
620
610
600
590
580
570
560

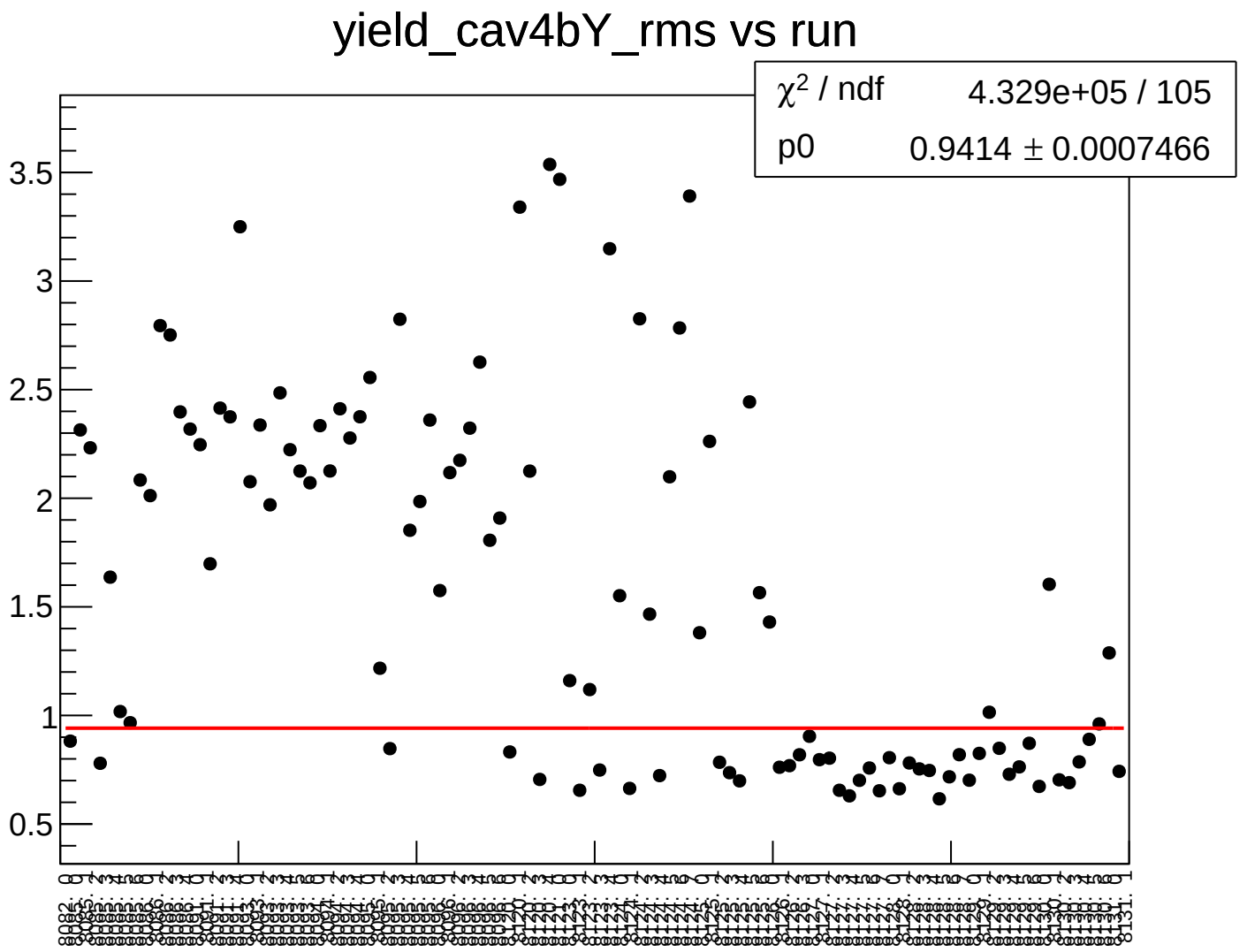

yield_cav4bX_mean vs run
χ² / ndf 4.18e+05 / 105
p0 −28.91 ± 0.003873
−26
−28
−30
−32
−34
−36
pull
Entries 106
Mean −501.9
Std Dev 0
50
0
−50
−100
−150
−200

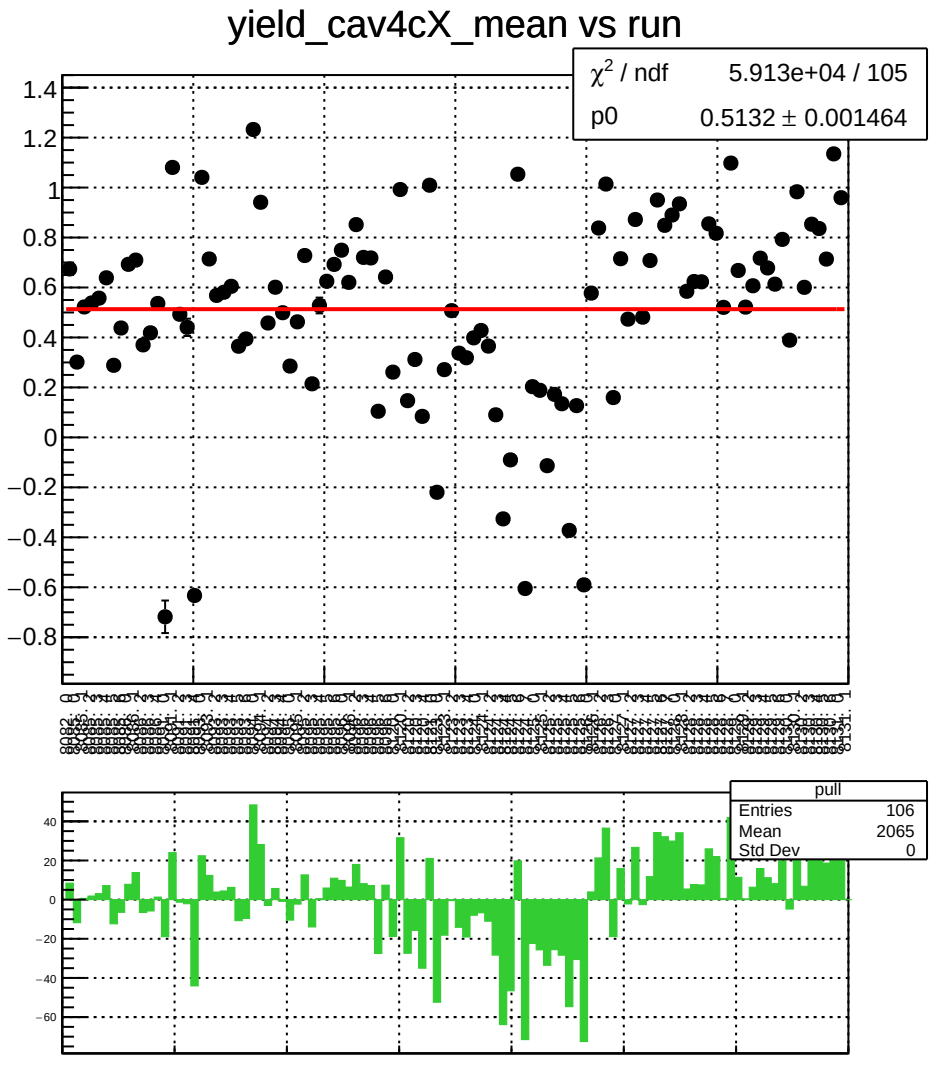

pull1D
Entries 106
Mean −0.7448
Std Dev 4.376
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

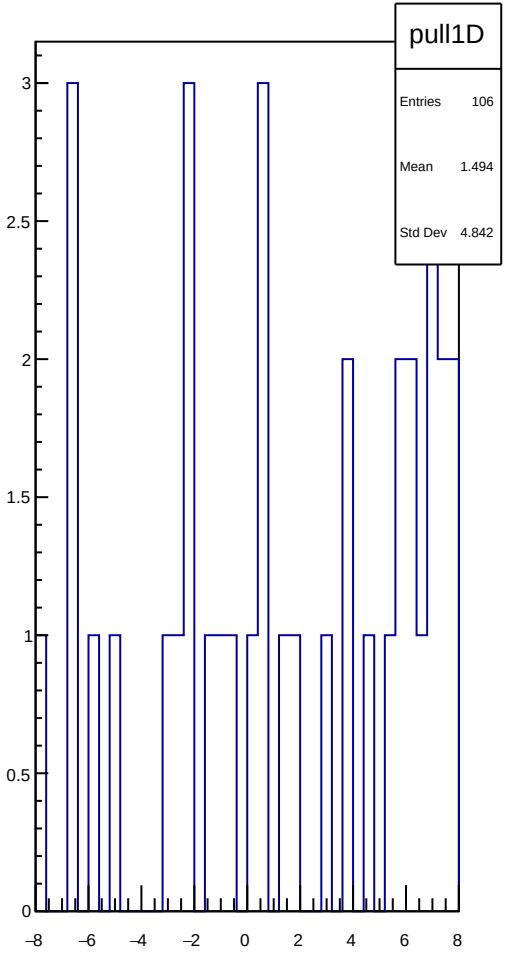

yield_cav4bX_rms vs run
$\chi^2$ / ndf 9.642e+04 / 105
p0 3.801 ± 0.002738
16
14
12
10
8
6
4
2

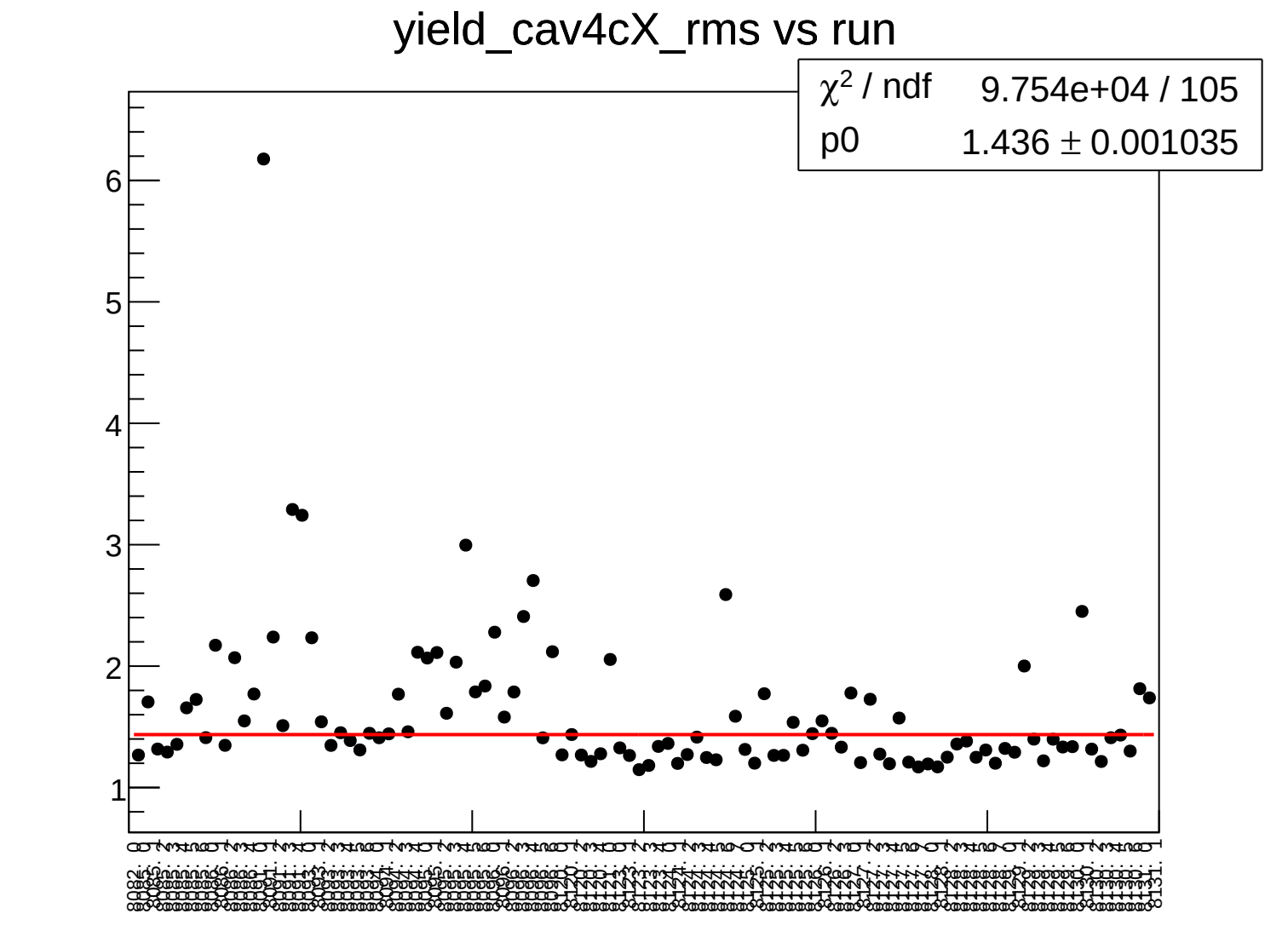

yield_cav4bY_mean vs run
χ² / ndf 5.659e+06 / 105
p0 −66.19 ± 0.001056
−64
−66
−68
−70
−72
−74
pull
Entries 106
Mean −29.63
Std Dev 0
200
0
−200
−400
−600
−800

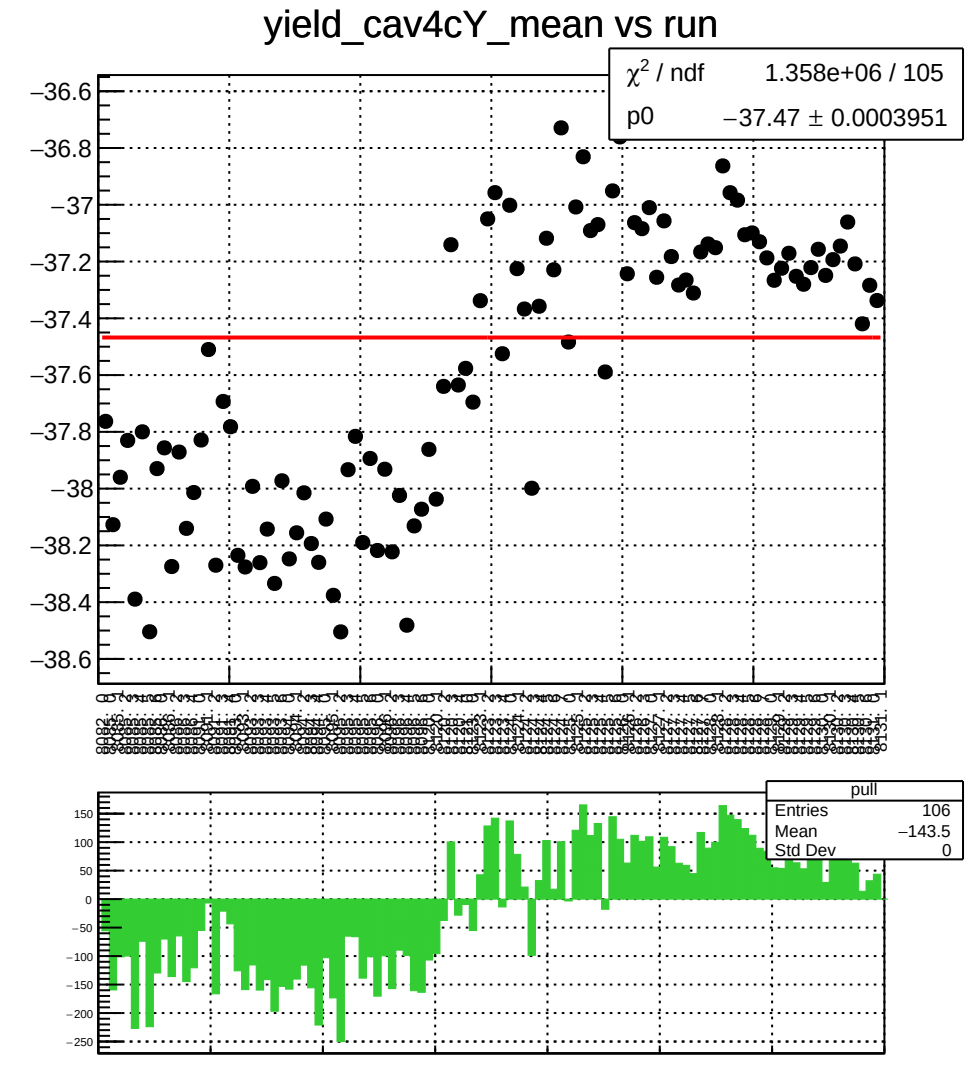

pull1D
Entries 106
Mean −2.732
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

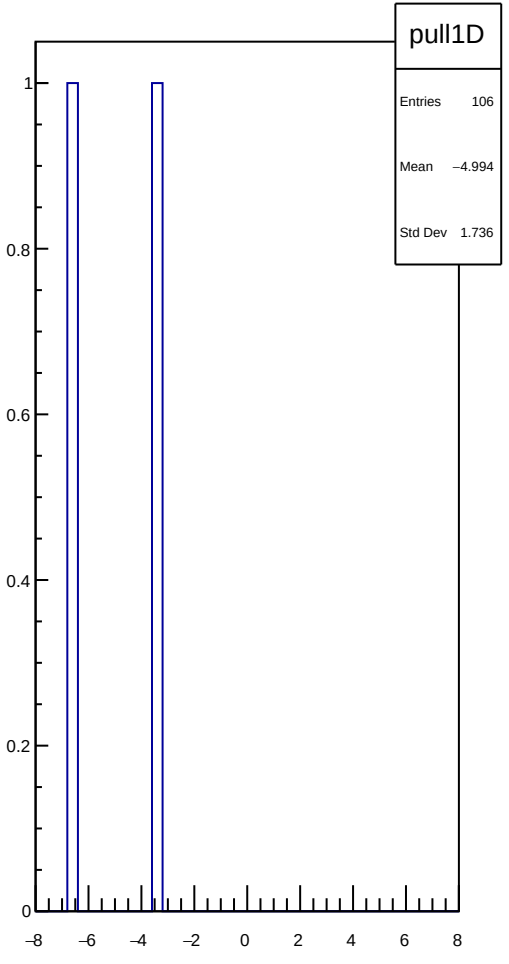

yield_cav4bY_rms vs run
χ² / ndf 4.329e+05 / 105
p0 0.9414 ± 0.0007466
3.5
3
2.5
2
1.5
1
0.5

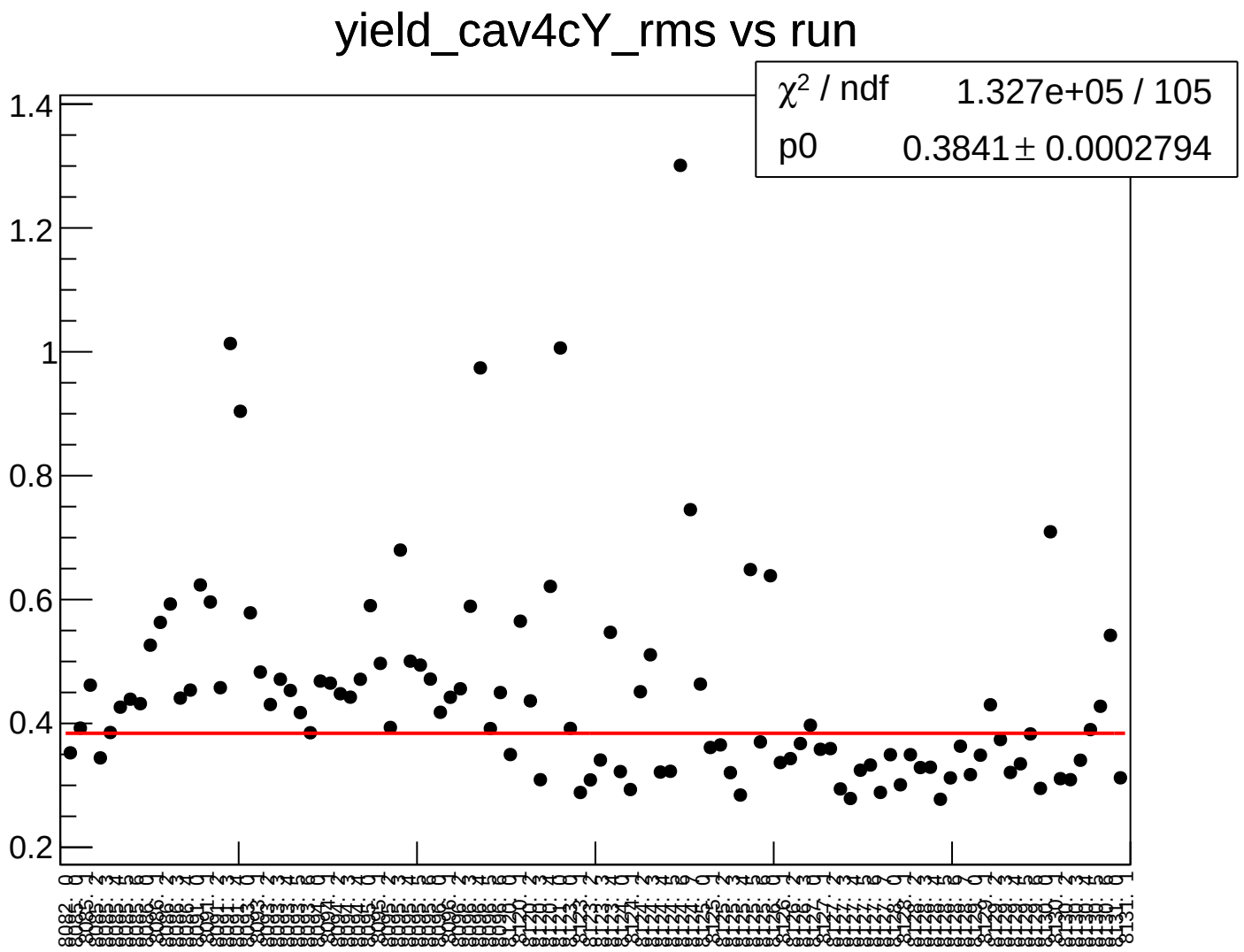

yield_cav4cX_mean vs run
χ² / ndf 5.913e+04 / 105
p0 0.5132 ± 0.001464
pull
Entries 106
Mean 2065
Std Dev 0

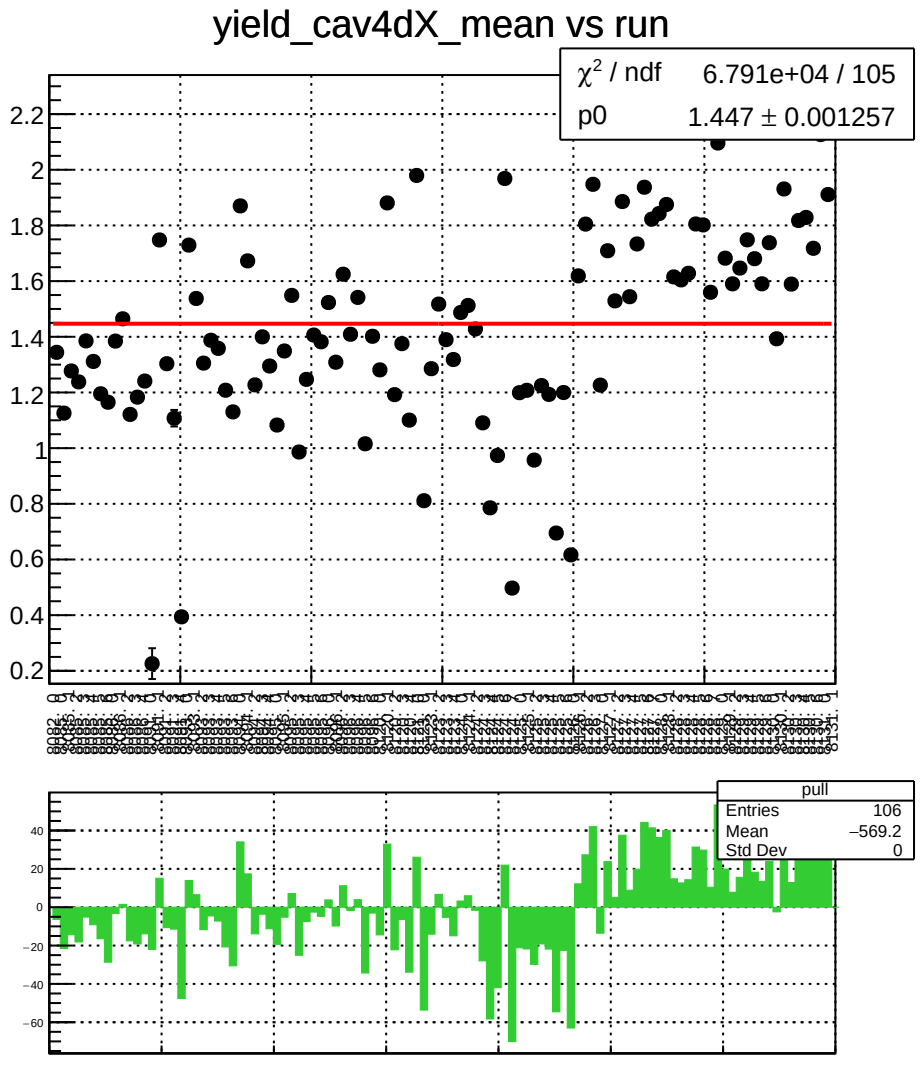

pull1D
Entries 106
Mean 1.494
Std Dev 4.842

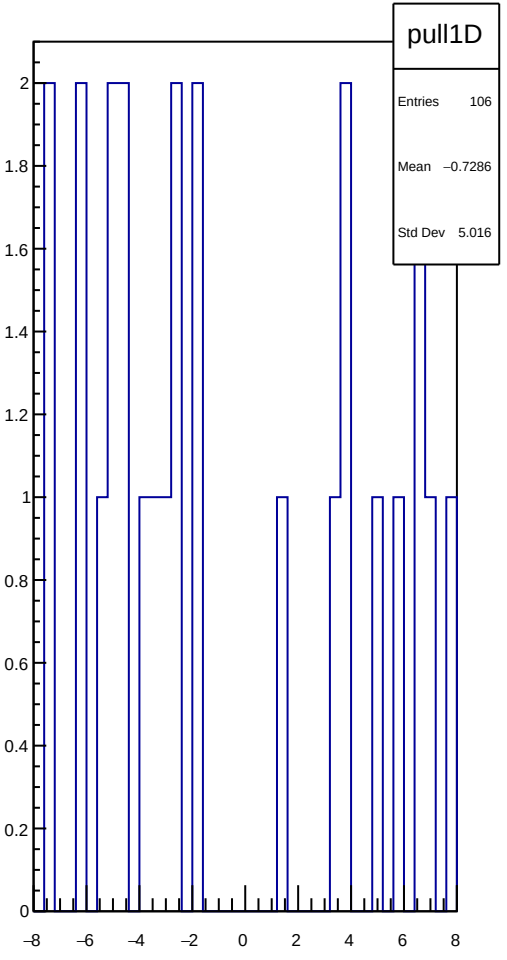

yield_cav4cX_rms vs run
$\chi^2$ / ndf 9.754e+04 / 105
p0 1.436 ± 0.001035
6
5
4
3
2
1

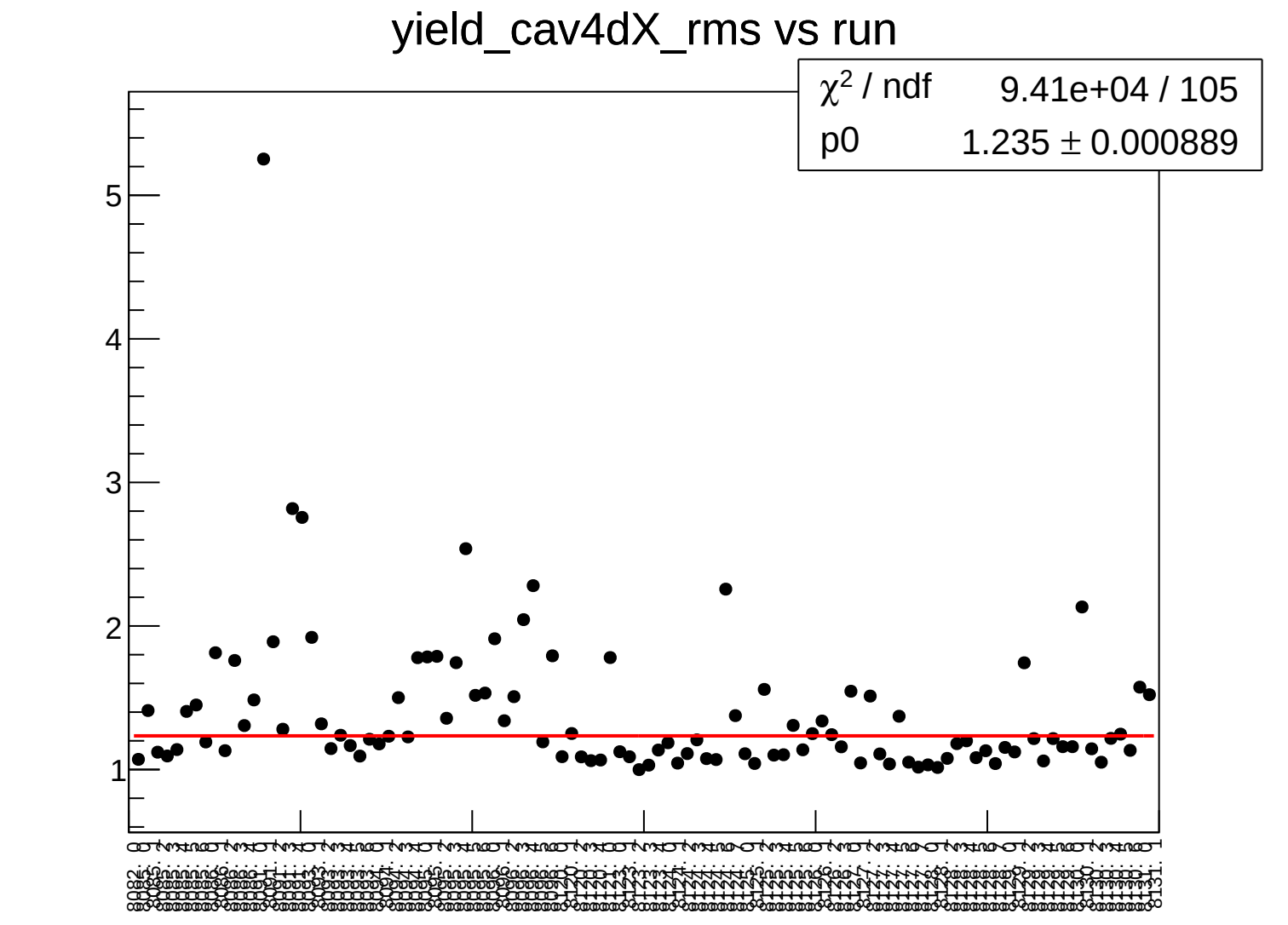

yield_cav4cY_mean vs run
χ² / ndf 1.358e+06 / 105
p0 −37.47 ± 0.0003951
−36.6
−36.8
−37
−37.2
−37.4
−37.6
−37.8
−38
−38.2
−38.4
−38.6
pull
Entries 106
Mean −143.5
Std Dev 0
150
100
50
0
−50
−100
−150
−200
−250

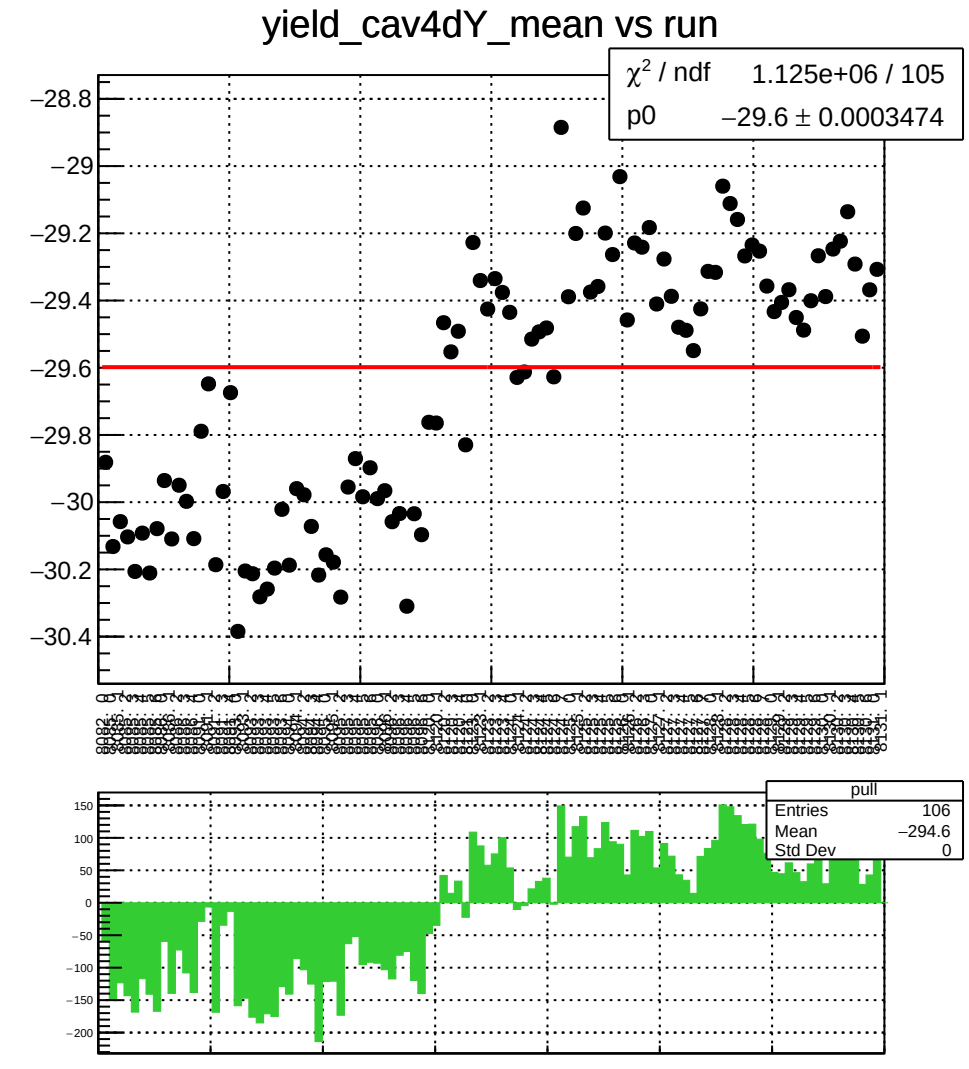

pull1D
Entries 106
Mean −4.994
Std Dev 1.736
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

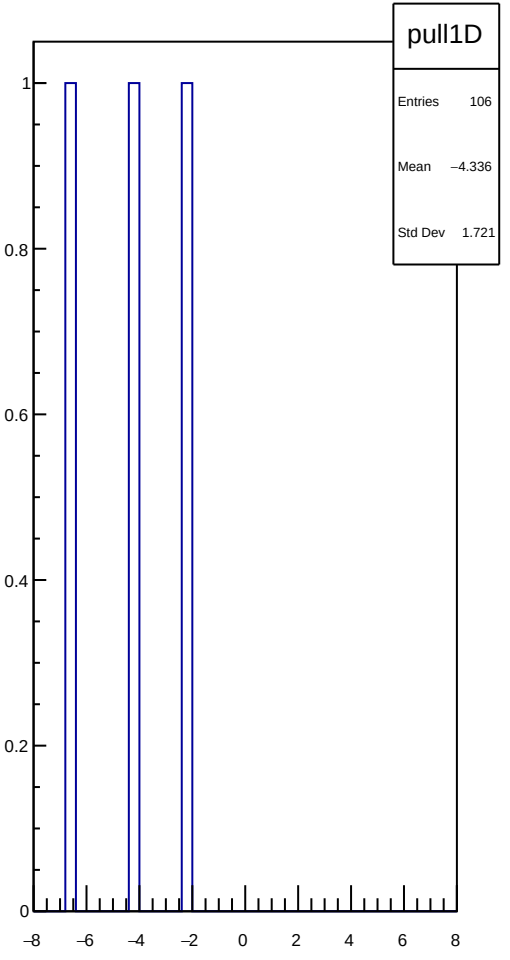

yield_cav4cY_rms vs run
χ² / ndf 1.327e+05 / 105
p0 0.3841 ± 0.0002794
1.4
1.2
1
0.8
0.6
0.4
0.2

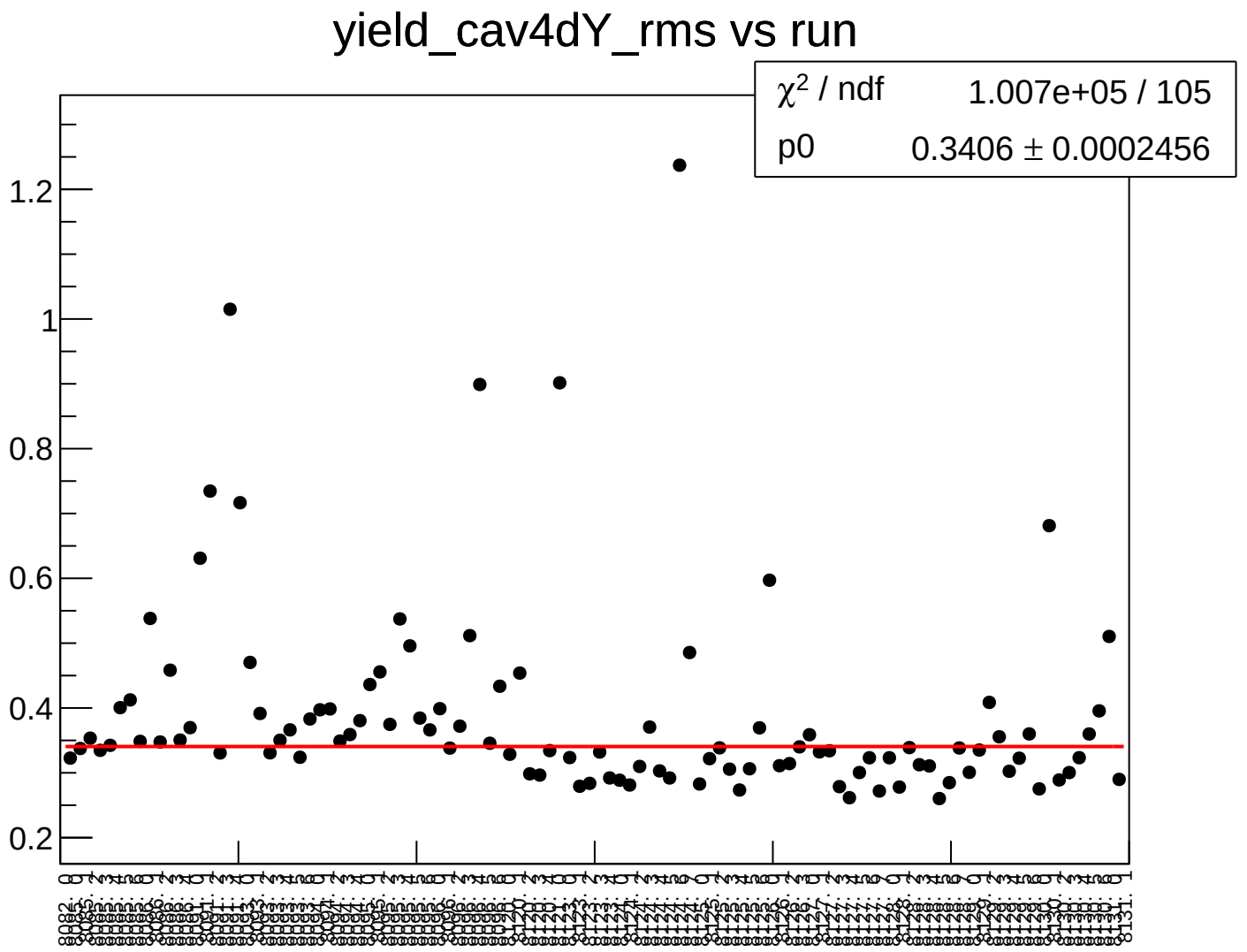

yield_cav4dX_mean vs run
χ² / ndf 6.791e+04 / 105
p0 1.447 ± 0.001257
pull
Entries 106
Mean −569.2
Std Dev 0

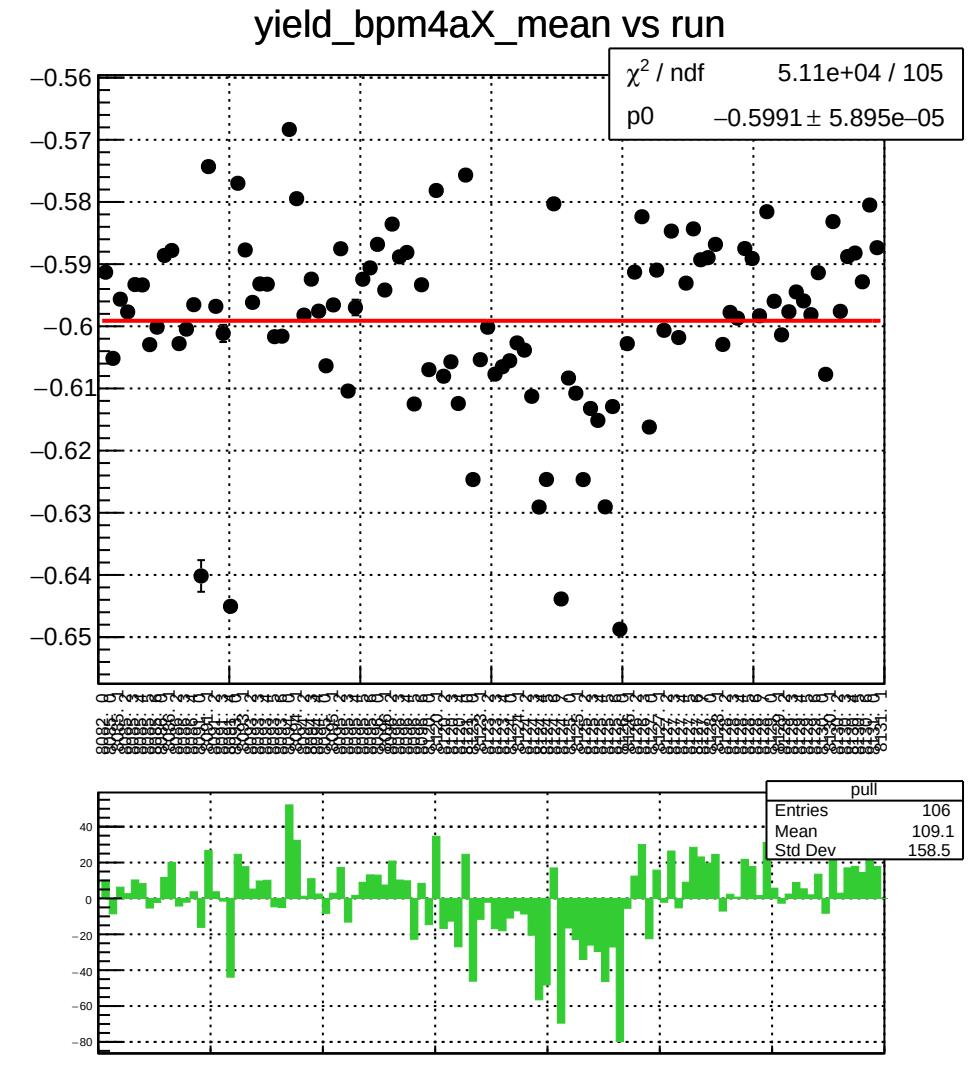

pull1D
Entries 106
Mean −0.7286
Std Dev 5.016

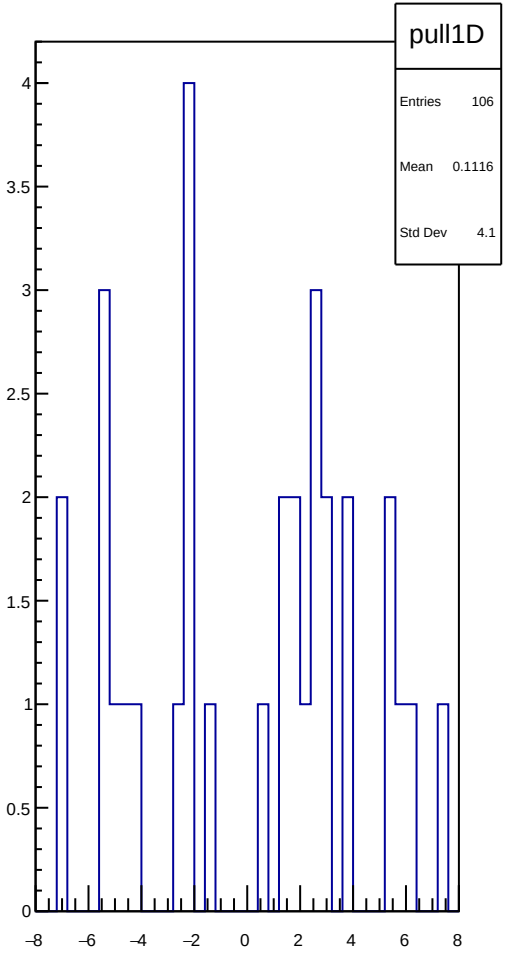

yield_cav4dX_rms vs run
$\chi^2$ / ndf 9.41e+04 / 105
p0 1.235 ± 0.000889
5
4
3
2
1

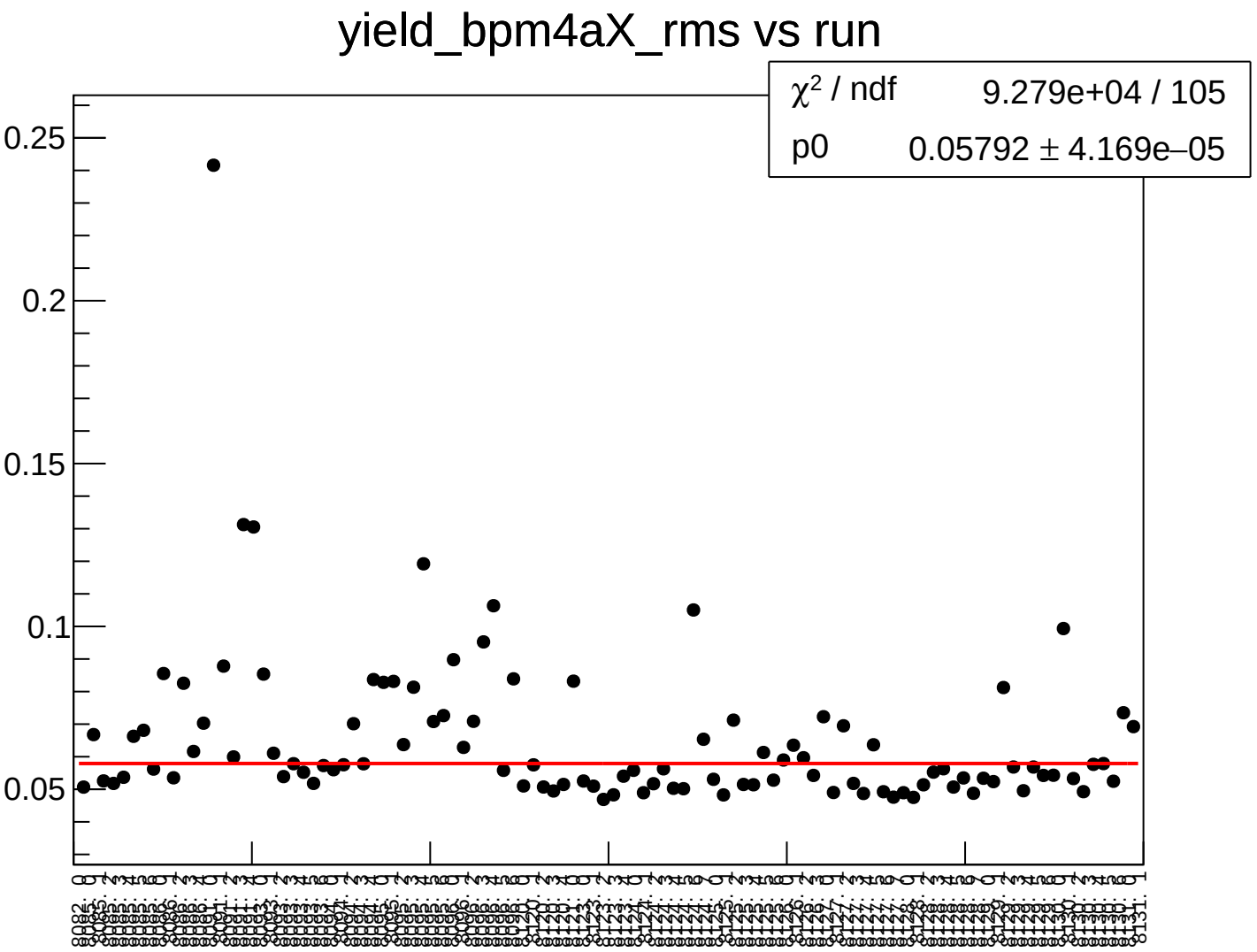

yield_cav4dY_mean vs run
χ² / ndf 1.125e+06 / 105
p0 −29.6 ± 0.0003474
−28.8
−29
−29.2
−29.4
−29.6
−29.8
−30
−30.2
−30.4
pull
Entries 106
Mean −294.6
Std Dev 0
150
100
50
0
−50
−100
−150
−200

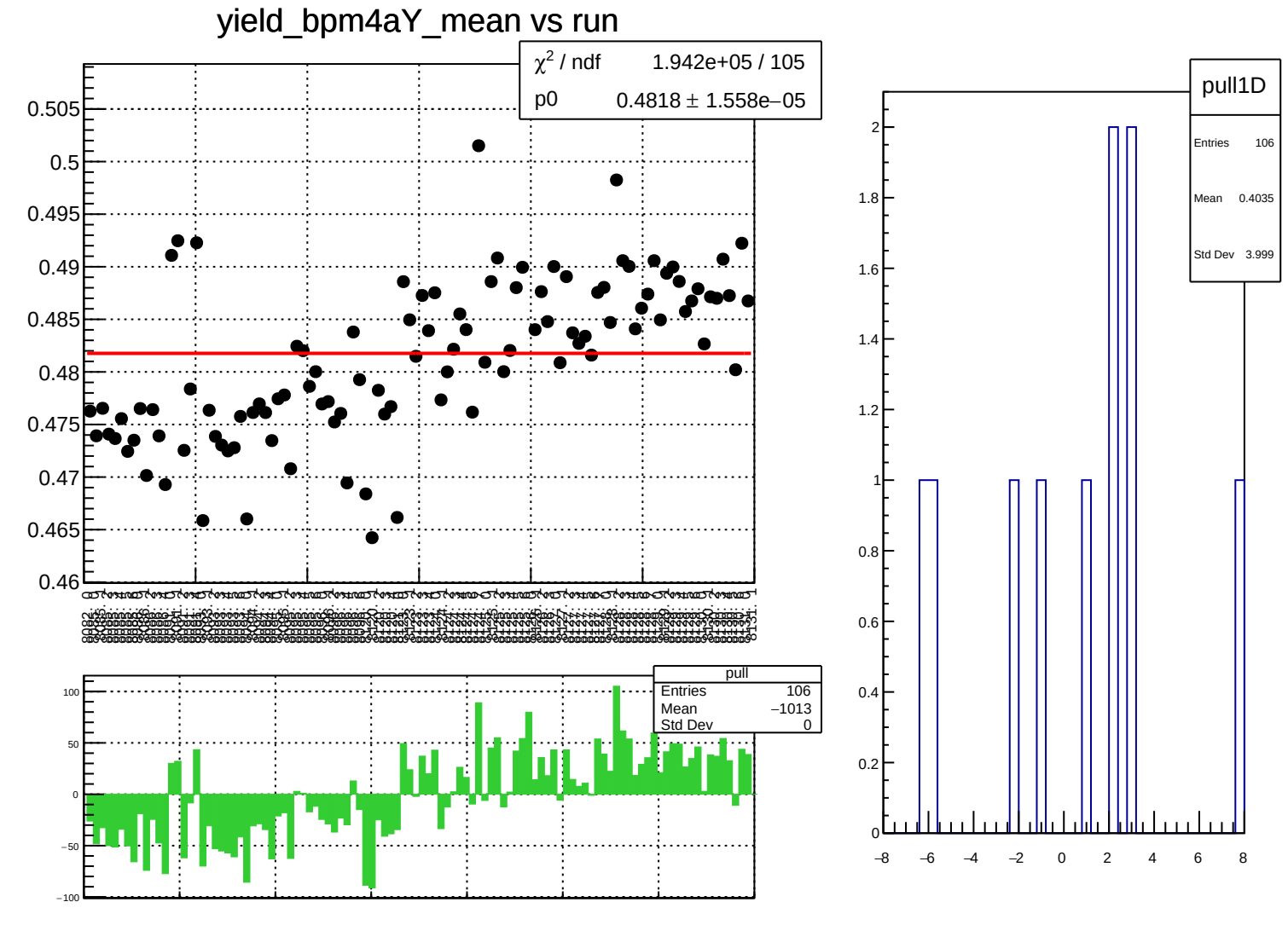

pull1D
Entries 106
Mean −4.336
Std Dev 1.721
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

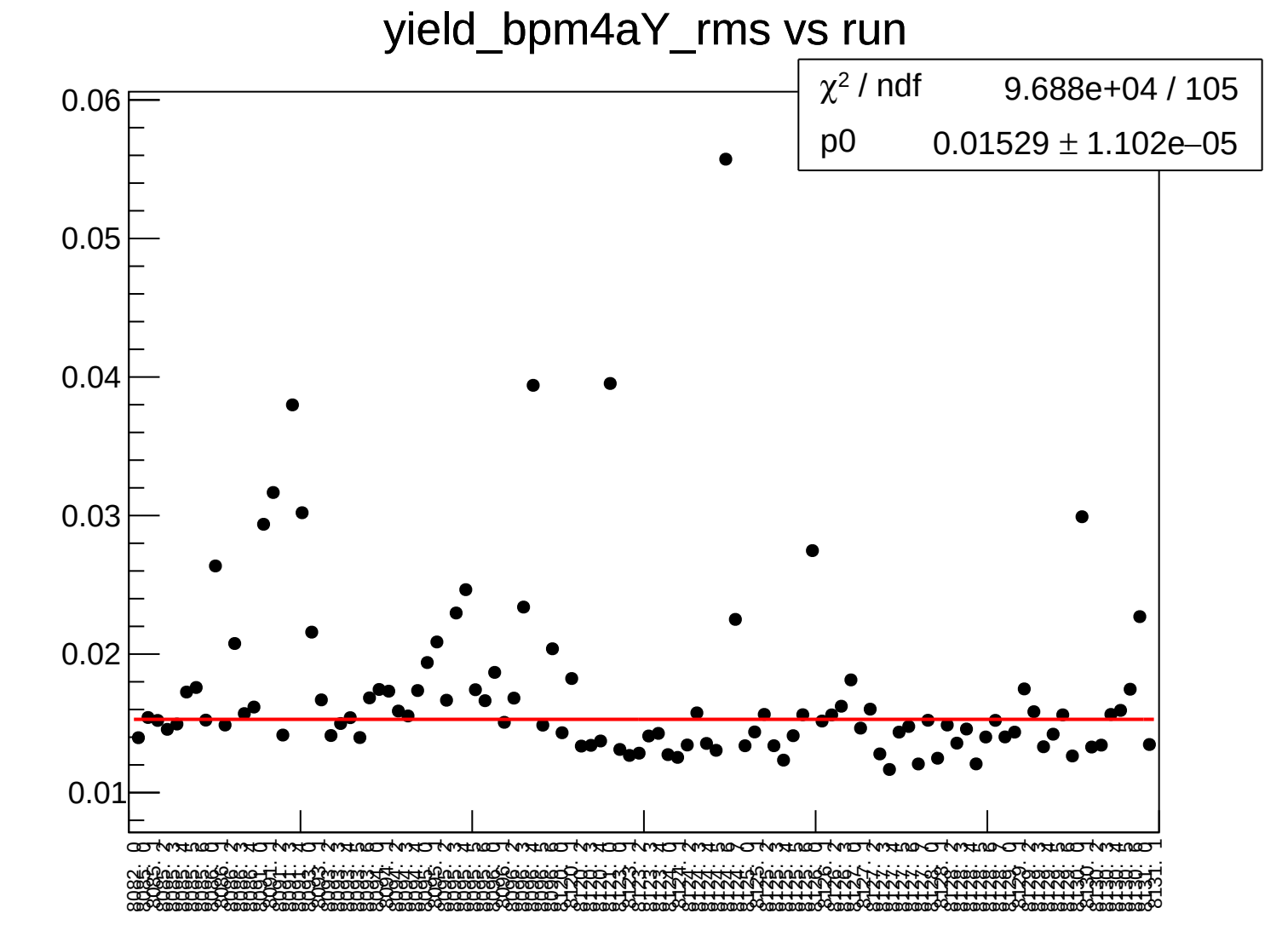

yield_cav4dY_rms vs run
χ² / ndf 1.007e+05 / 105
p0 0.3406 ± 0.0002456
1.2
1
0.8
0.6
0.4
0.2

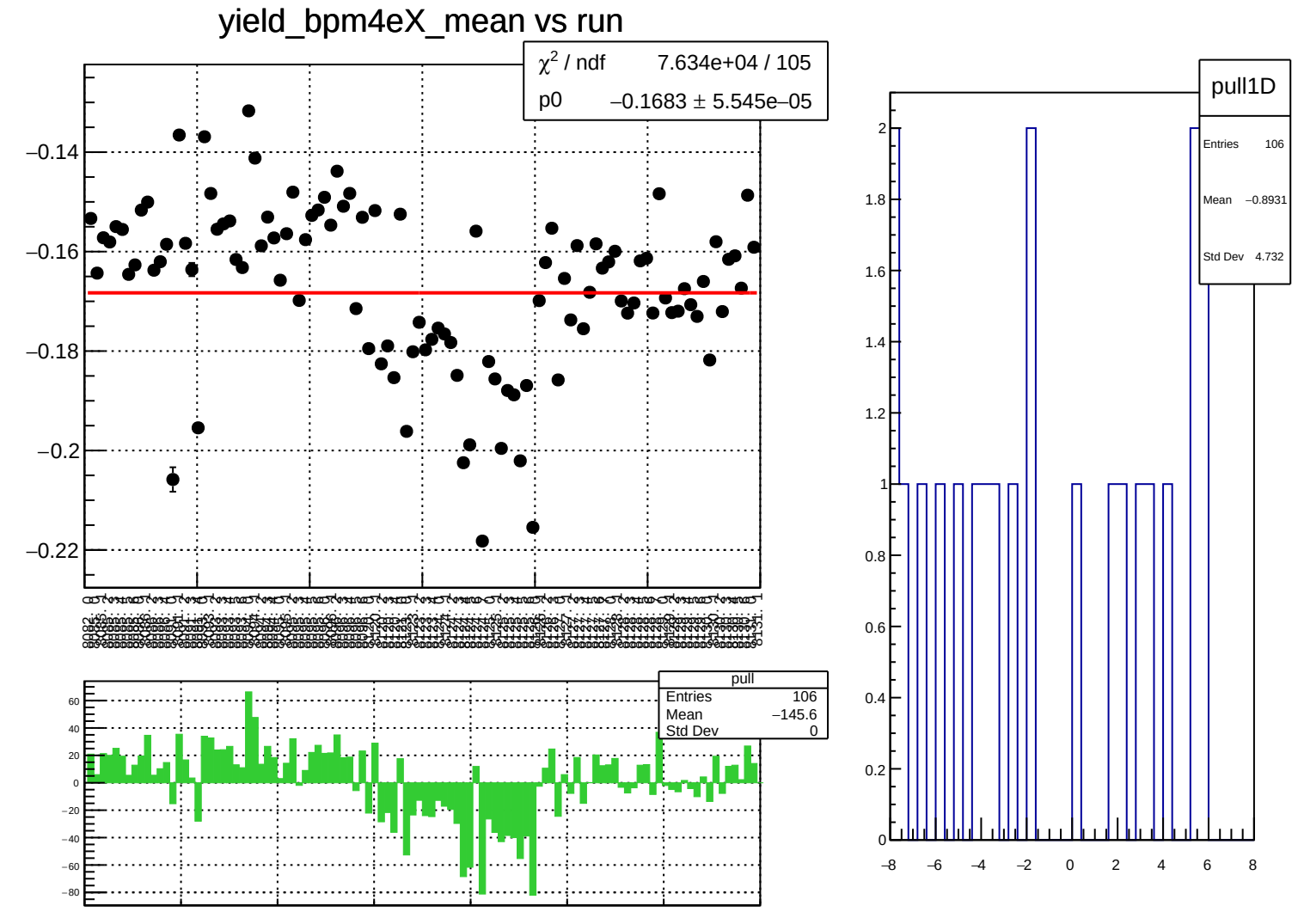

yield_bpm4aX_mean vs run
χ² / ndf 5.11e+04 / 105
p0 −0.5991 ± 5.895e−05
−0.56
−0.57
−0.58
−0.59
−0.6
−0.61
−0.62
−0.63
−0.64
−0.65
pull
Entries 106
Mean 109.1
Std Dev 158.5
40
20
0
−20
−40
−60
−80

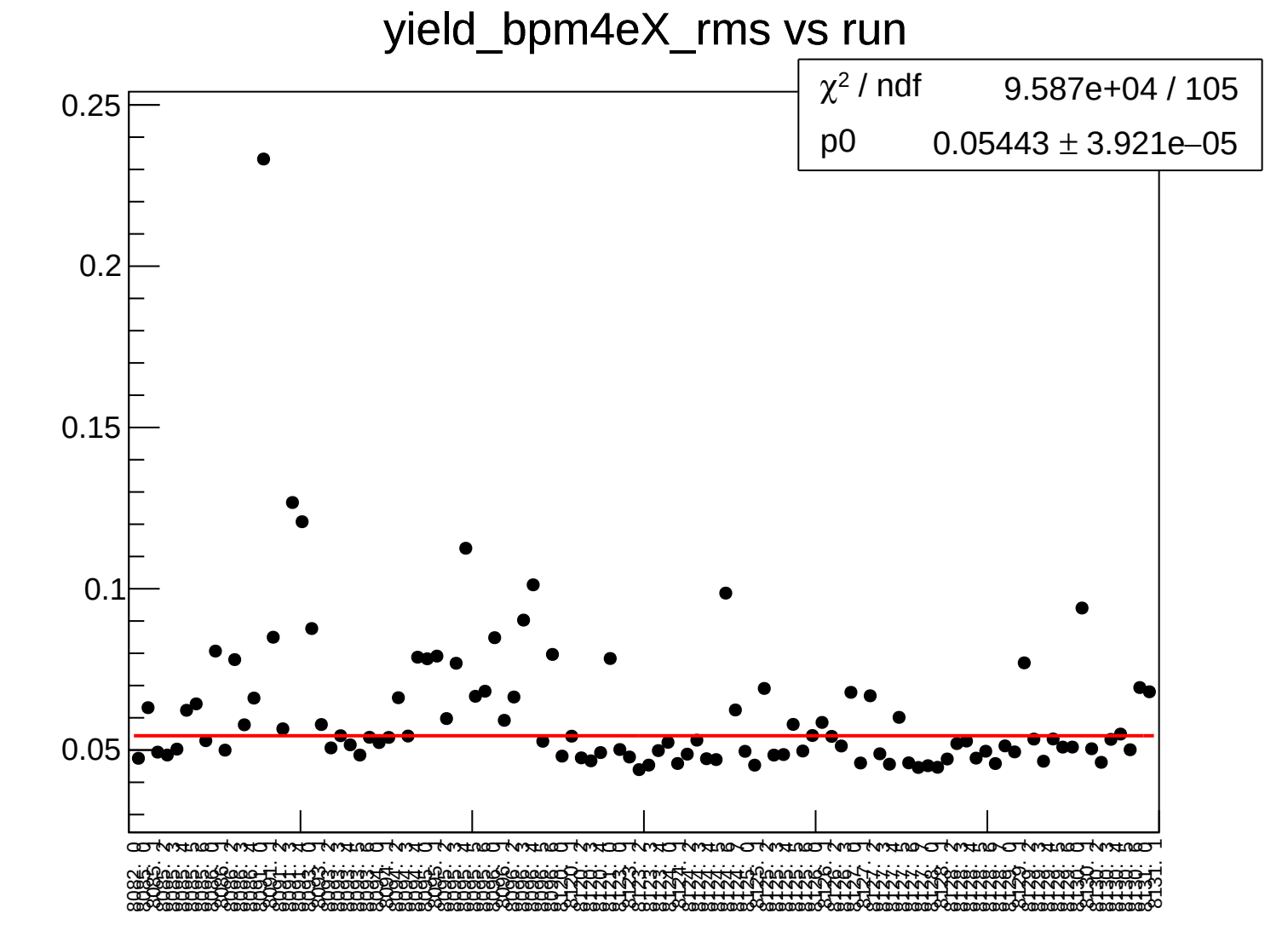

pull1D
Entries 106
Mean 0.1116
Std Dev 4.1
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

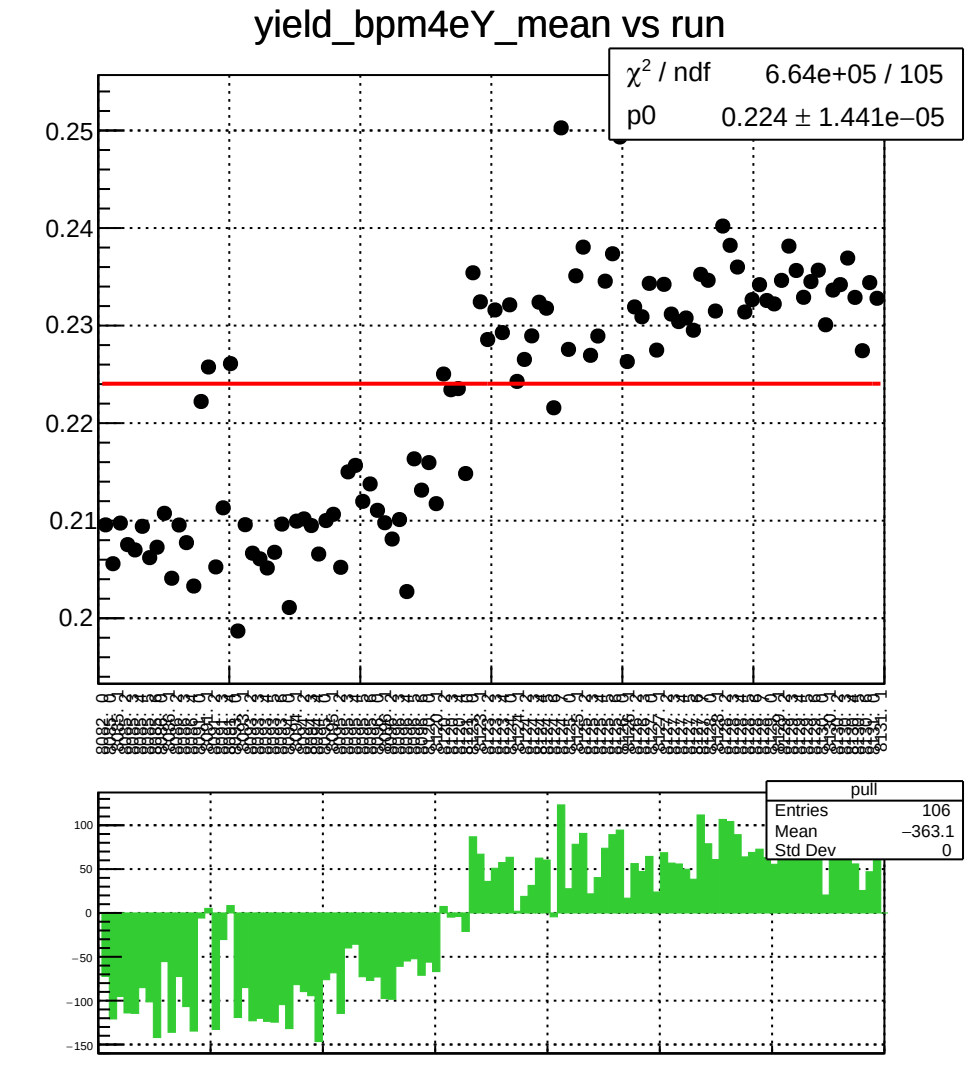

yield_bpm4aX_rms vs run
χ² / ndf 9.279e+04 / 105
p0 0.05792 ± 4.169e–05
0.25
0.2
0.15
0.1
0.05

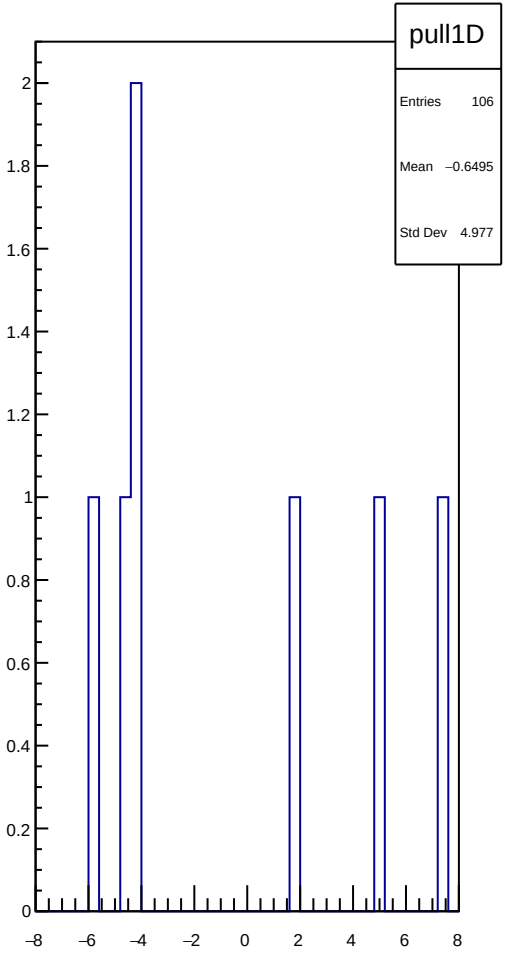

yield_bpm4aY_mean vs run
χ² / ndf 1.942e+05 / 105
p0 0.4818 ± 1.558e−05
pull
Entries 106
Mean −1013
Std Dev 0
pull1D
Entries 106
Mean 0.4035
Std Dev 3.999

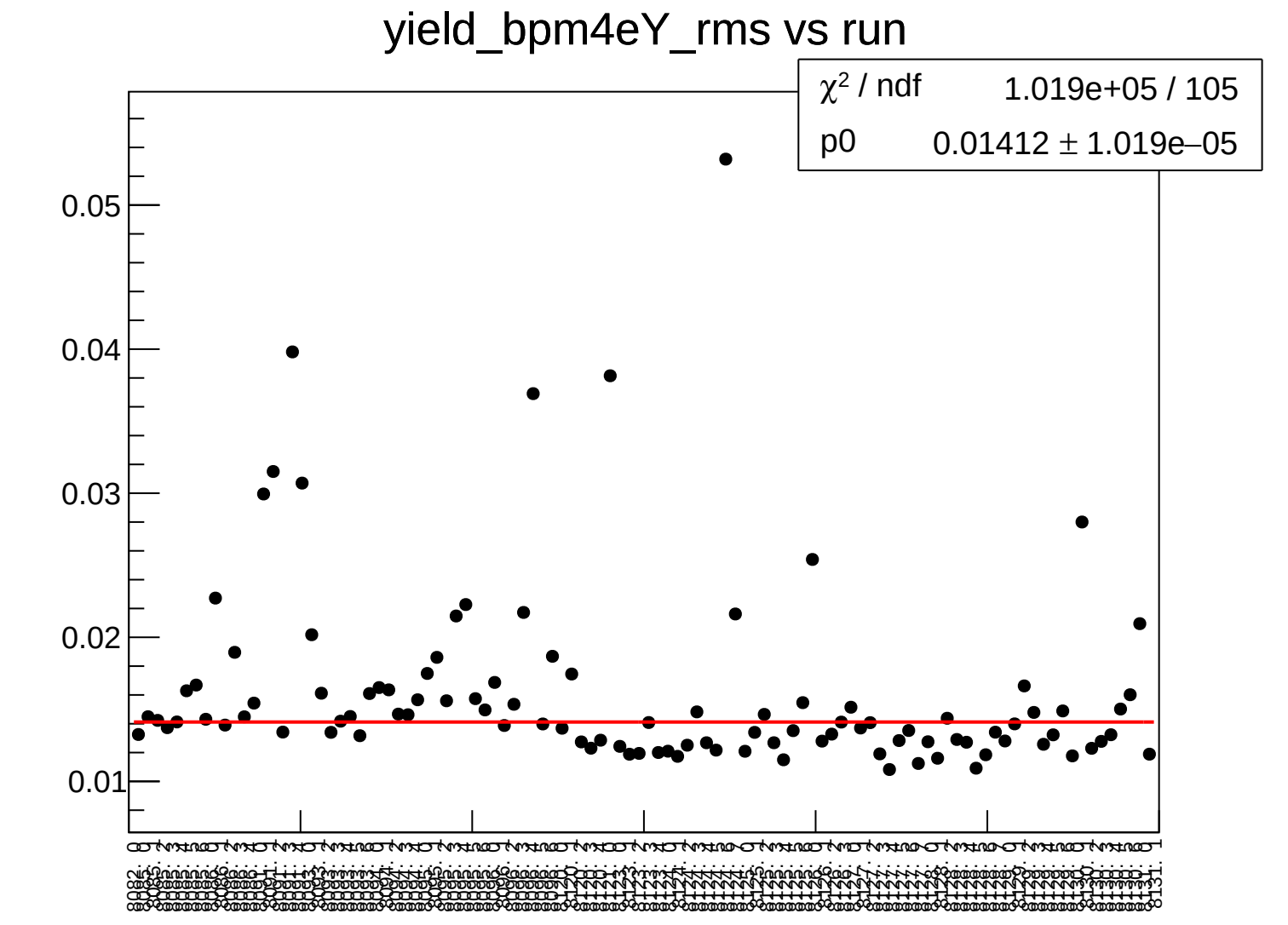

yield_bpm4aY_rms vs run
χ² / ndf 9.688e+04 / 105
p0 0.01529 ± 1.102e–05
0.06
0.05
0.04
0.03
0.02
0.01

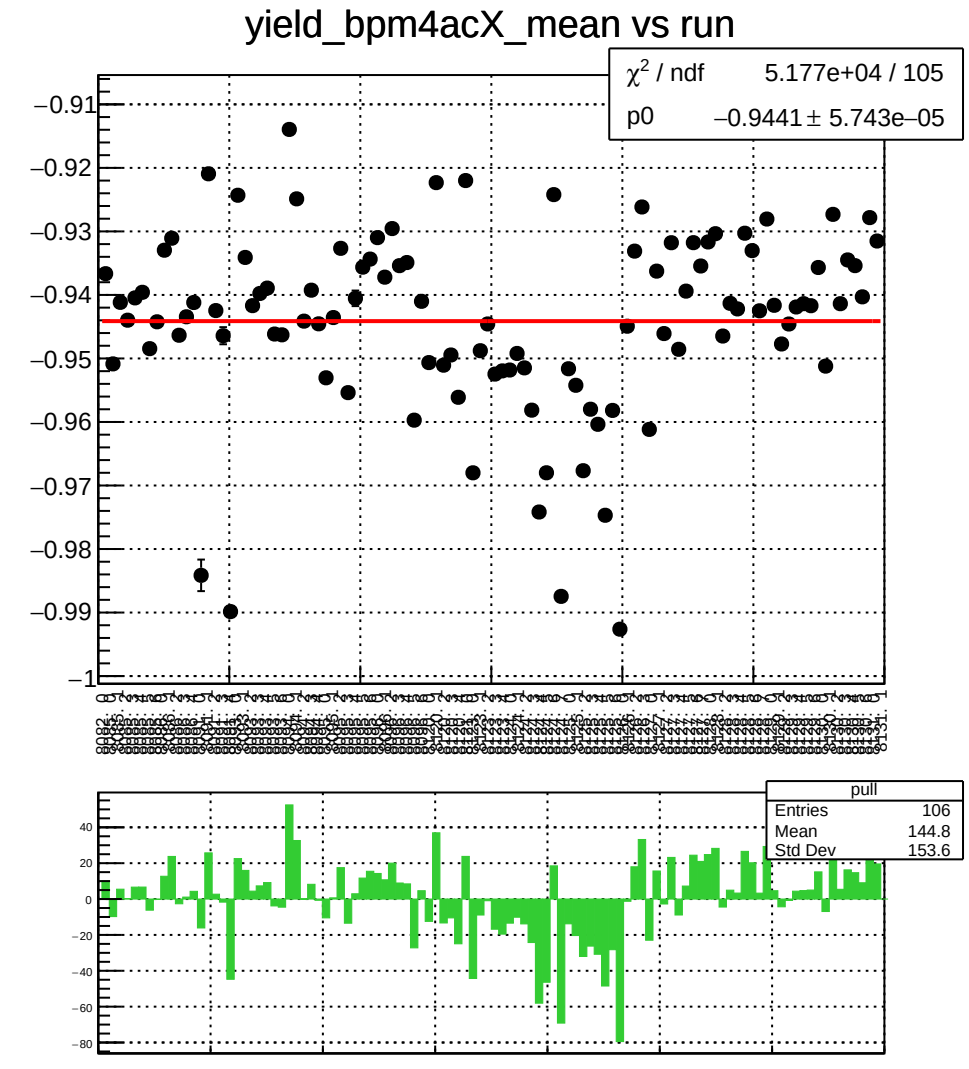

yield_bpm4eX_mean vs run
χ² / ndf 7.634e+04 / 105
p0 −0.1683 ± 5.545e−05
−0.14
−0.16
−0.18
−0.2
−0.22
pull
Entries 106
Mean −145.6
Std Dev 0
60
40
20
0
−20
−40
−60
−80
pull1D
Entries 106
Mean −0.8931
Std Dev 4.732
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

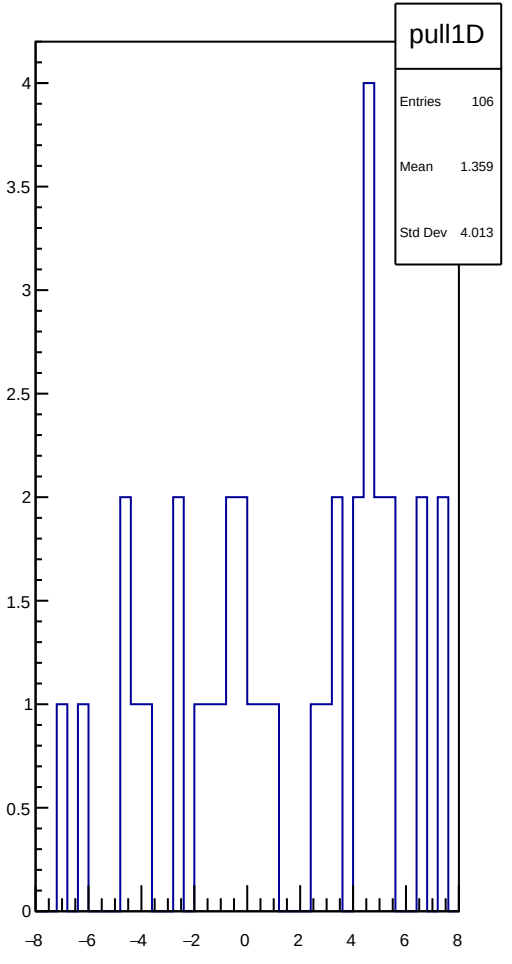

yield_bpm4eX_rms vs run
χ² / ndf 9.587e+04 / 105
p0 0.05443 ± 3.921e–05
0.25
0.2
0.15
0.1
0.05

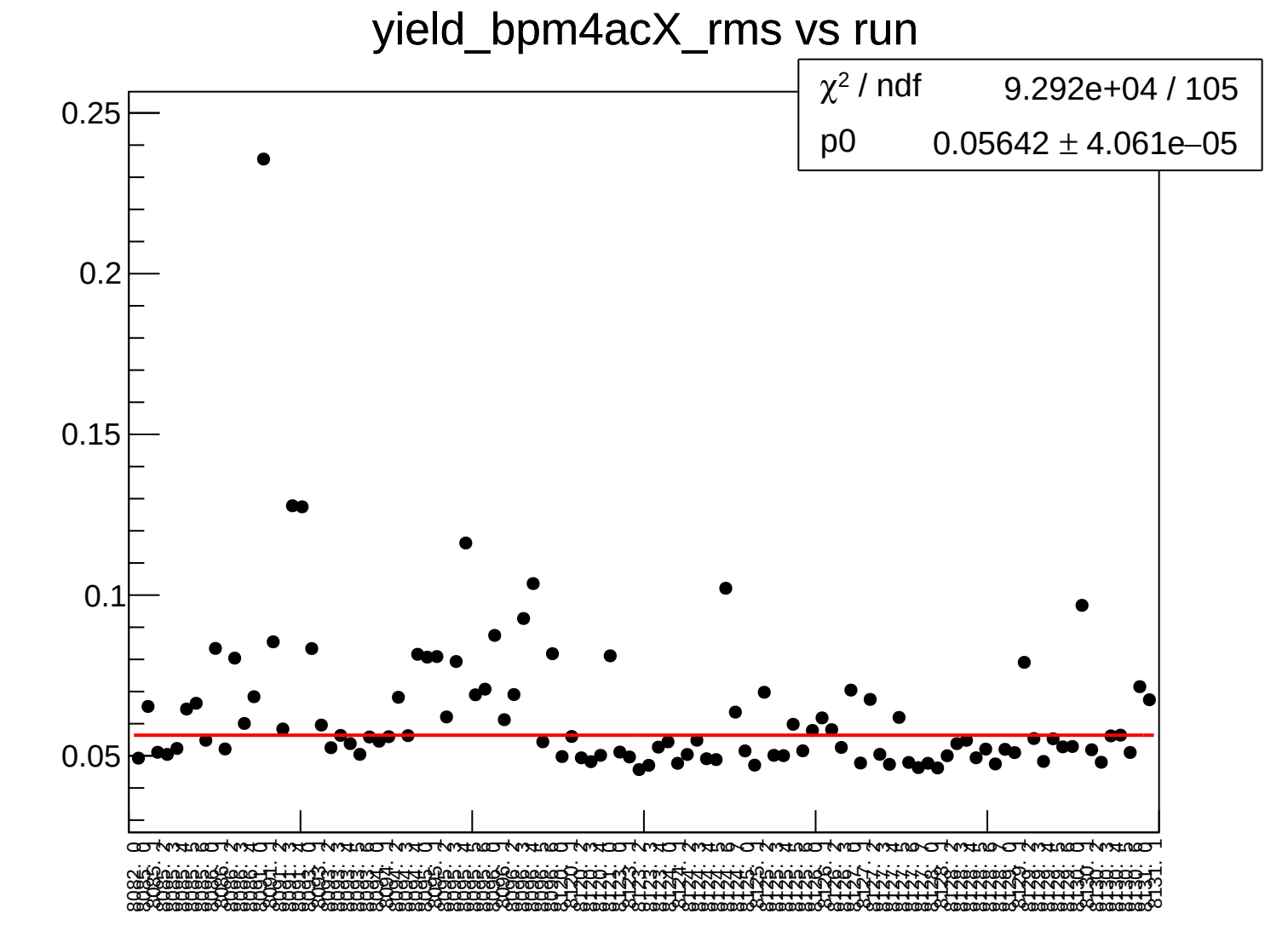

yield_bpm4eY_mean vs run
χ² / ndf 6.64e+05 / 105
p0 0.224 ± 1.441e−05
0.25
0.24
0.23
0.22
0.21
0.2
pull
Entries 106
Mean −363.1
Std Dev 0
100
50
0
−50
−100
−150

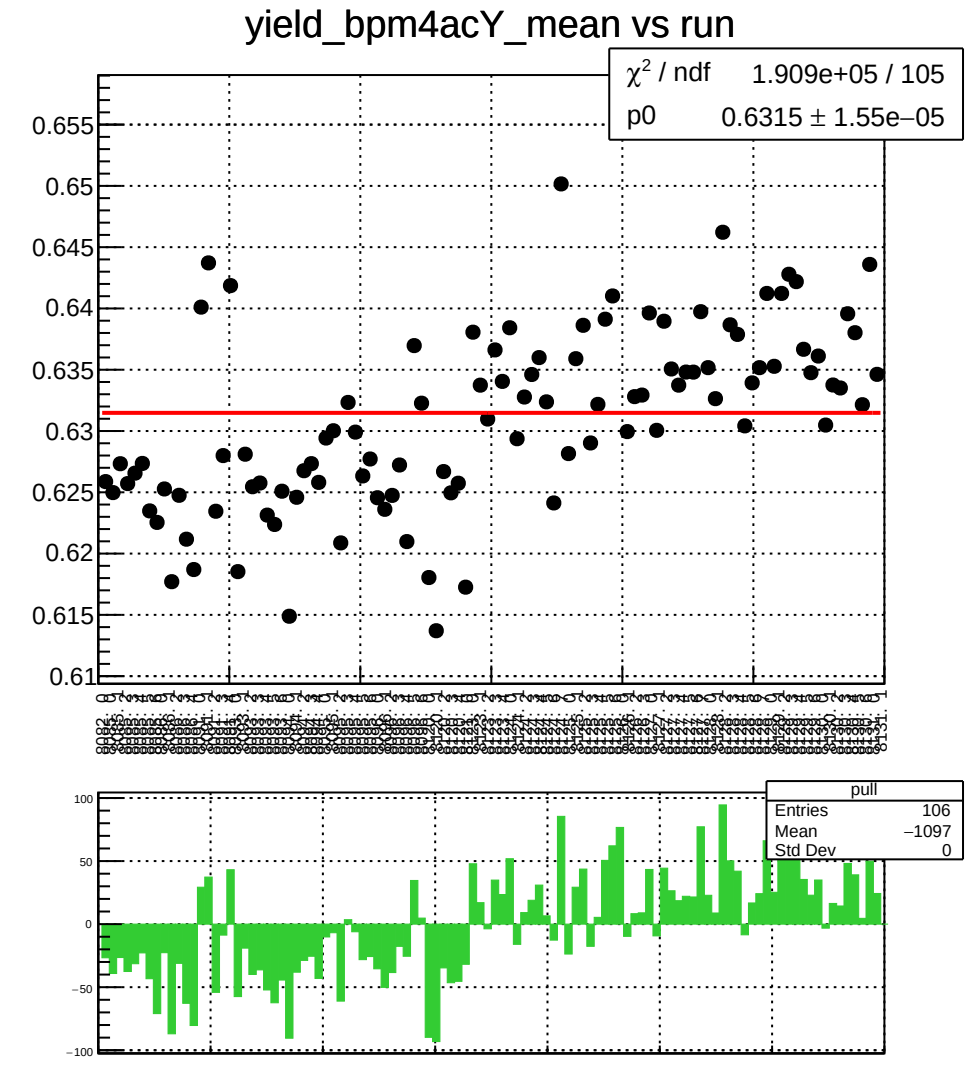

pull1D
Entries 106
Mean −0.6495
Std Dev 4.977
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

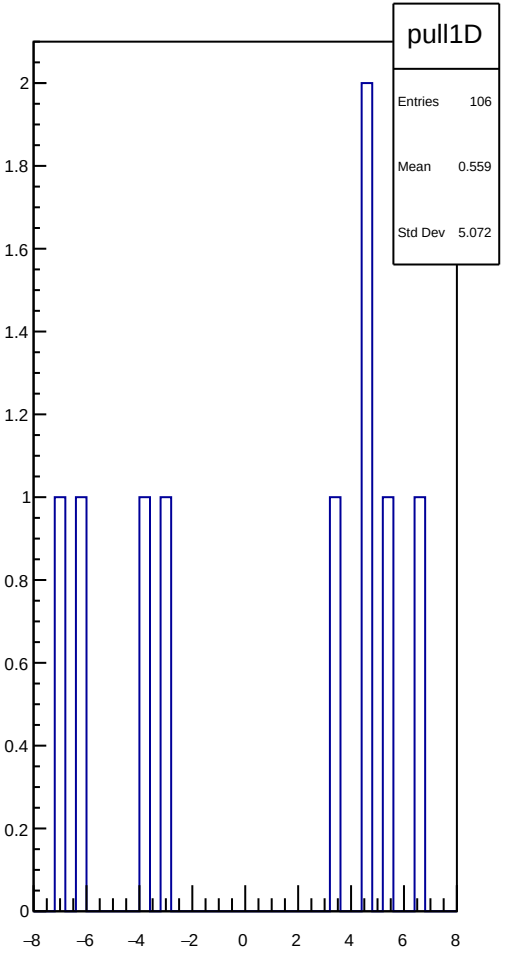

yield_bpm4eY_rms vs run
χ² / ndf 1.019e+05 / 105
p0 0.01412 ± 1.019e–05
0.05
0.04
0.03
0.02
0.01

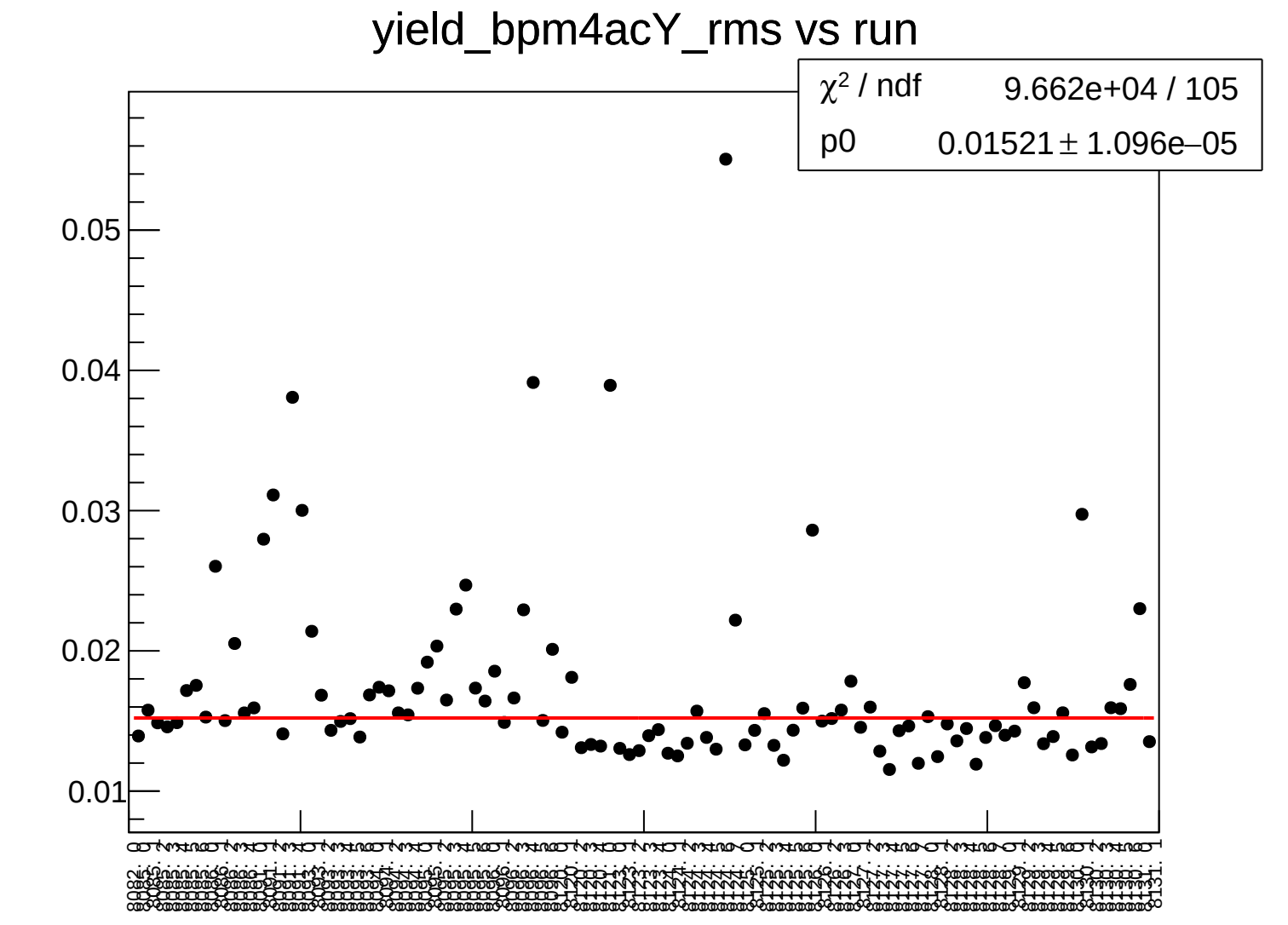

yield_bpm4acX_mean vs run
χ² / ndf 5.177e+04 / 105
p0 −0.9441 ± 5.743e−05
−0.91
−0.92
−0.93
−0.94
−0.95
−0.96
−0.97
−0.98
−0.99
−1
pull
Entries 106
Mean 144.8
Std Dev 153.6
40
20
0
−20
−40
−60
−80

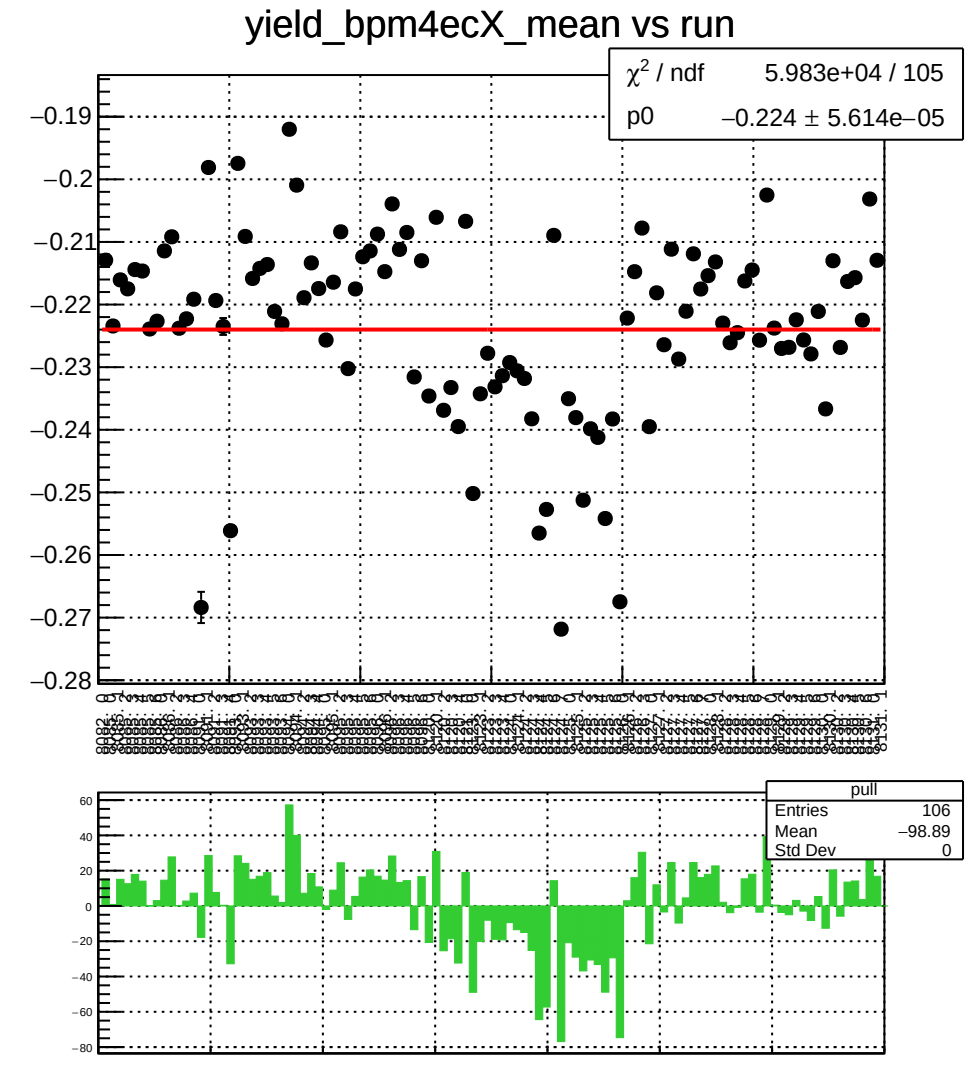

pull1D
Entries 106
Mean 1.359
Std Dev 4.013
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

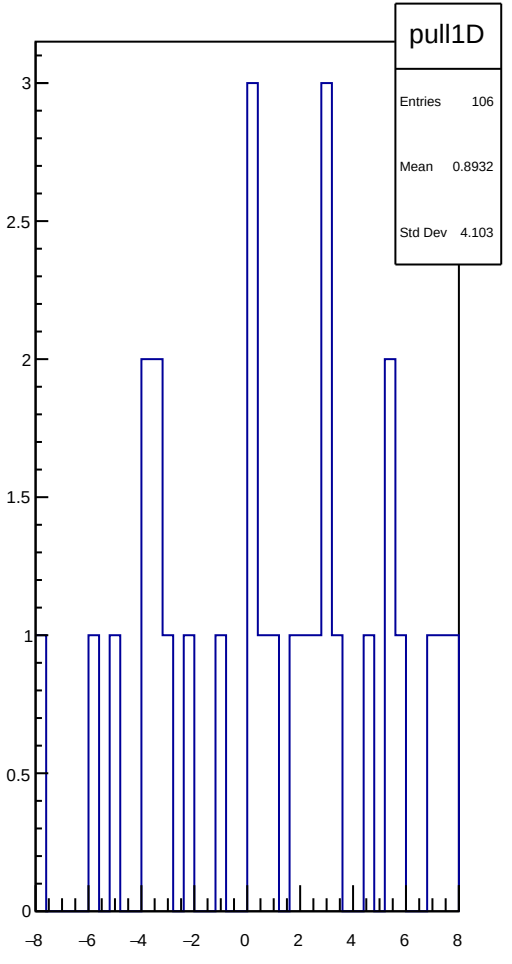

yield_bpm4acX_rms vs run
χ² / ndf 9.292e+04 / 105
p0 0.05642 ± 4.061e−05
0.25
0.2
0.15
0.1
0.05

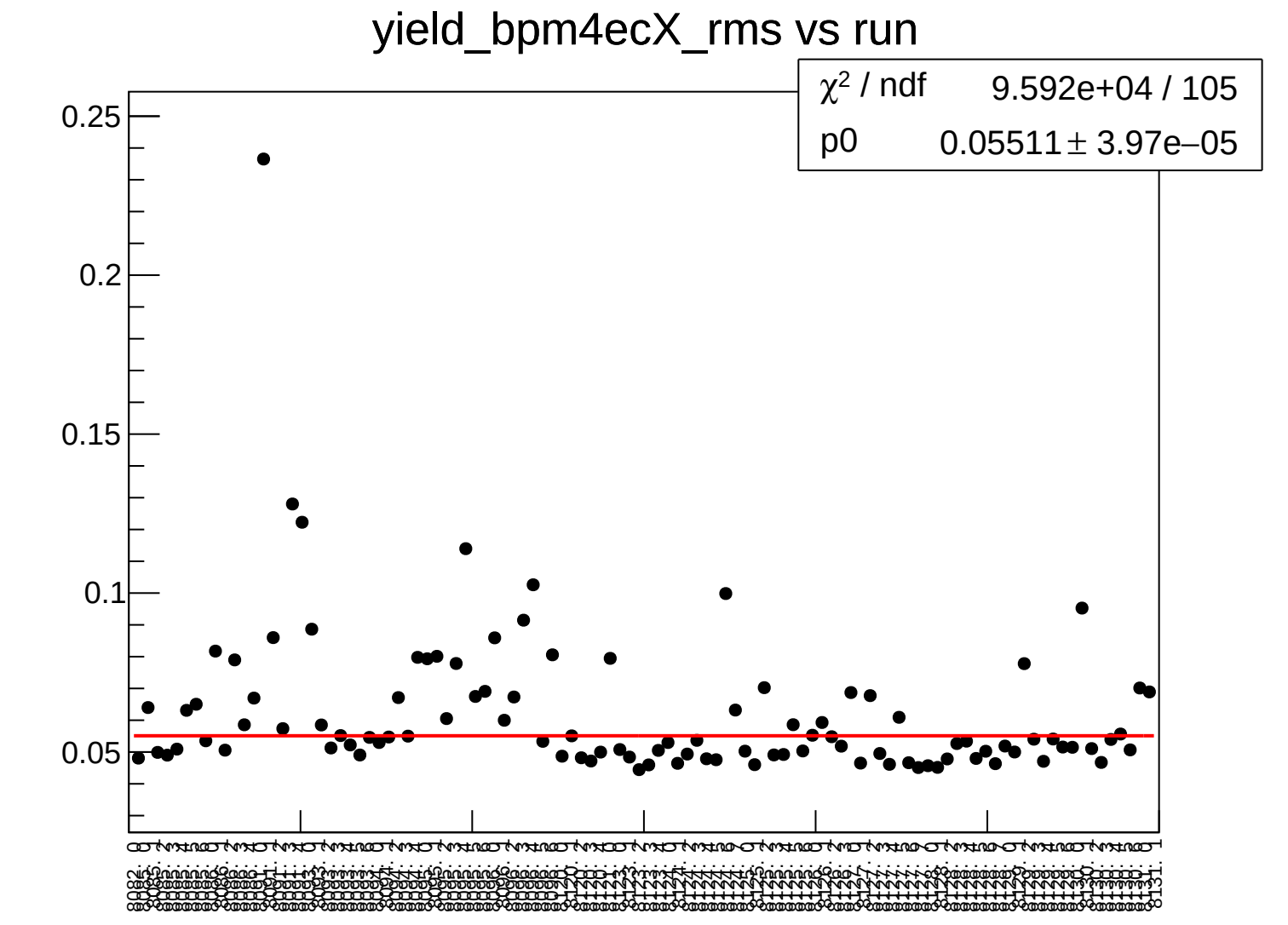

yield_bpm4acY_mean vs run
χ² / ndf 1.909e+05 / 105
p0 0.6315 ± 1.55e−05
0.655
0.65
0.645
0.64
0.635
0.63
0.625
0.62
0.615
0.61
pull
Entries 106
Mean −1097
Std Dev 0
100
50
0
−50
−100

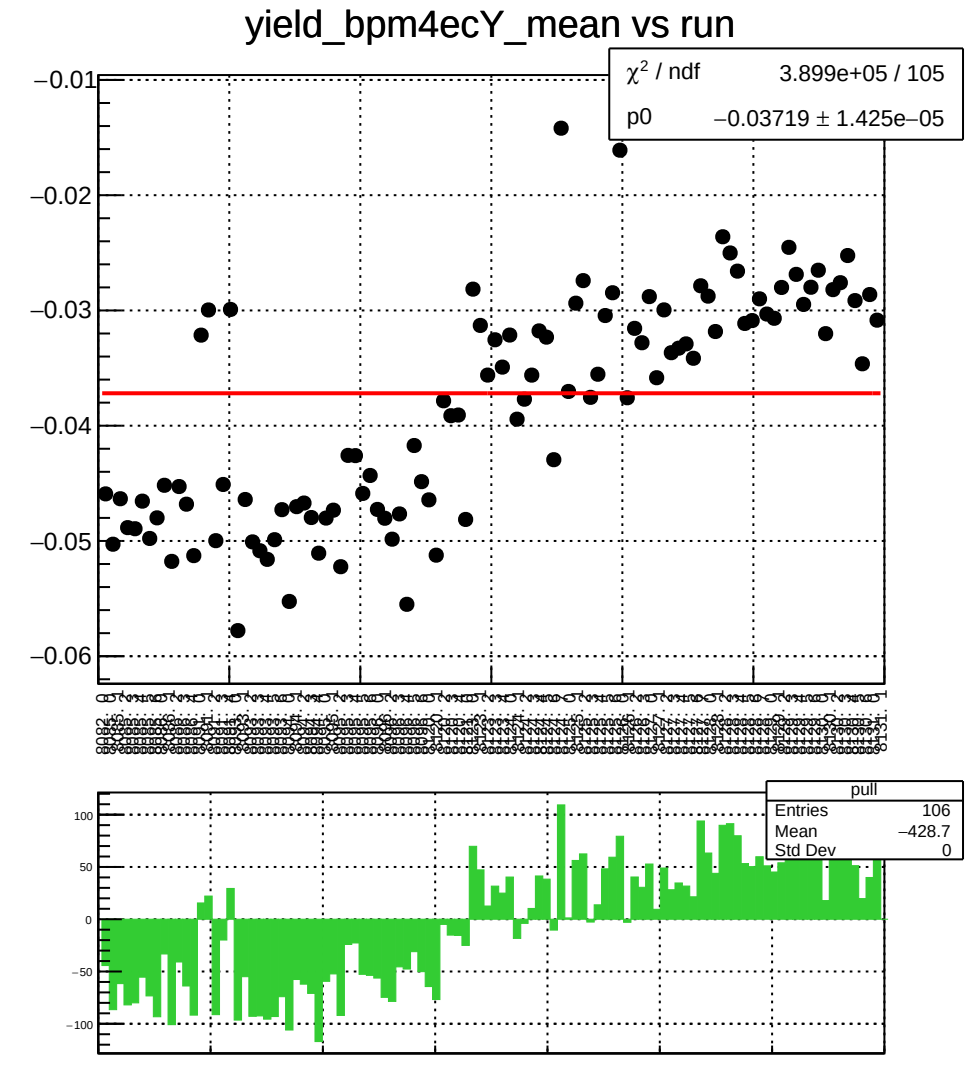

pull1D
Entries 106
Mean 0.559
Std Dev 5.072
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

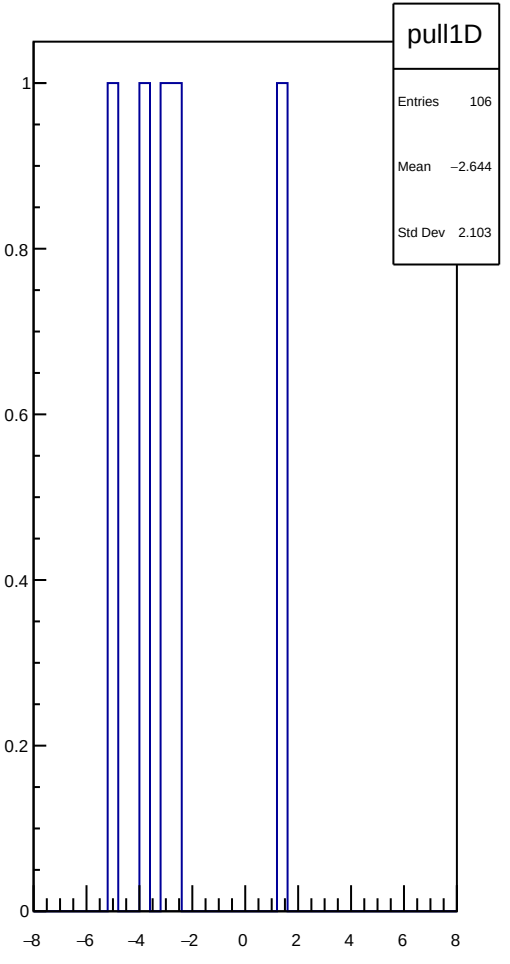

yield_bpm4acY_rms vs run
χ² / ndf 9.662e+04 / 105
p0 0.01521 ± 1.096e−05
0.05
0.04
0.03
0.02
0.01

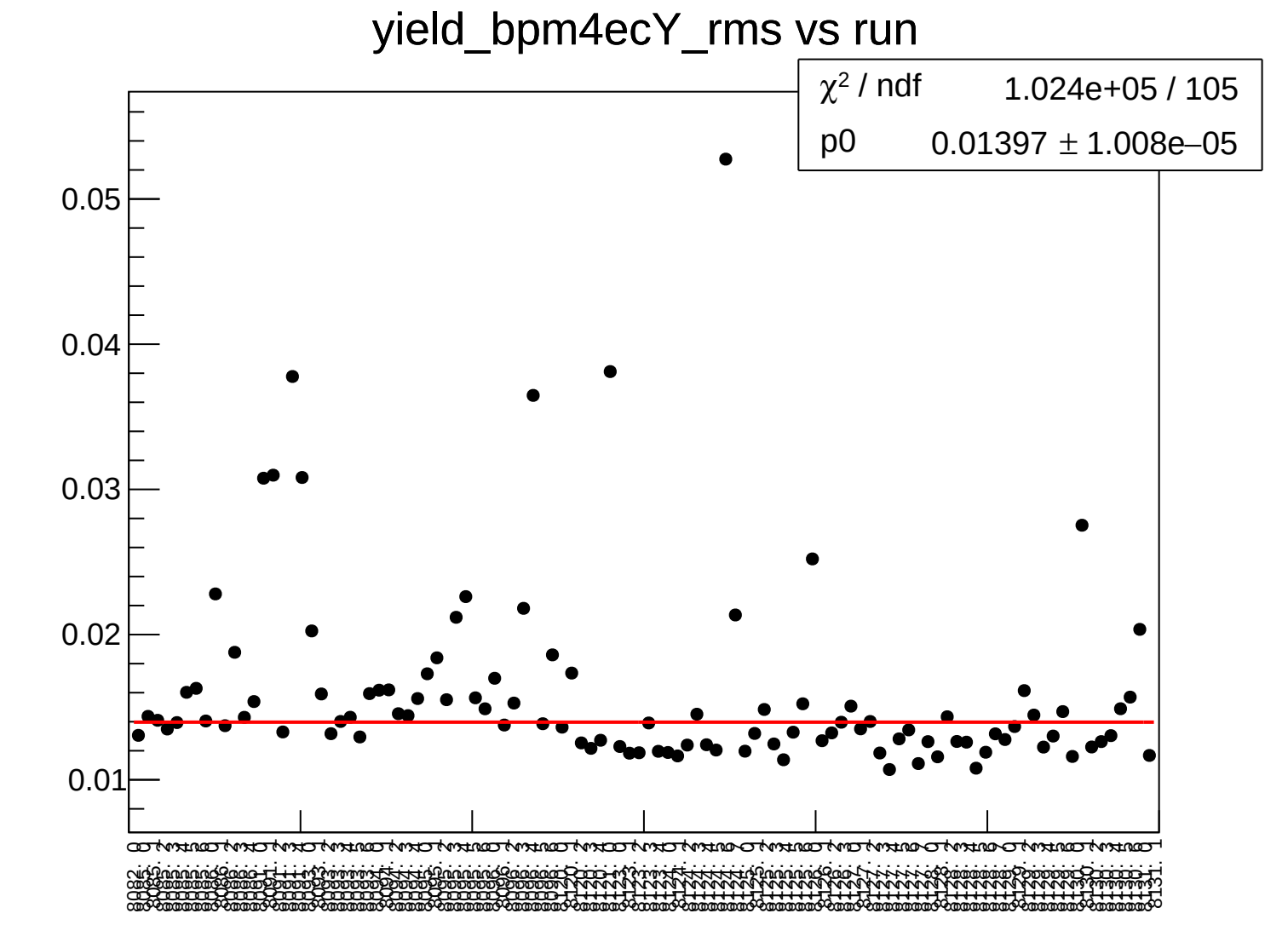

yield_bpm4ecX_mean vs run
χ² / ndf 5.983e+04 / 105
p0 −0.224 ± 5.614e−05
−0.19
−0.2
−0.21
−0.22
−0.23
−0.24
−0.25
−0.26
−0.27
−0.28
pull
Entries 106
Mean −98.89
Std Dev 0
60
40
20
0
−20
−40
−60
−80

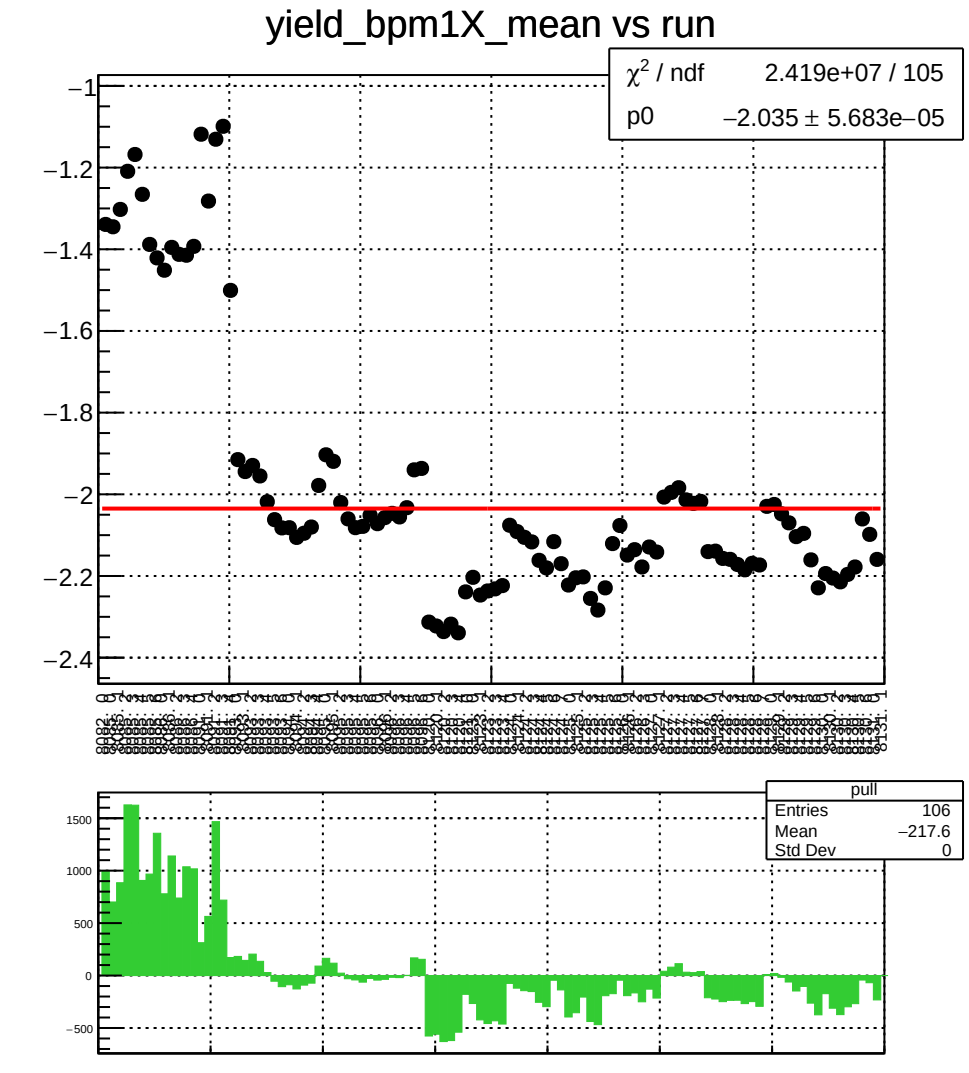

pull1D
Entries 106
Mean 0.8932
Std Dev 4.103
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

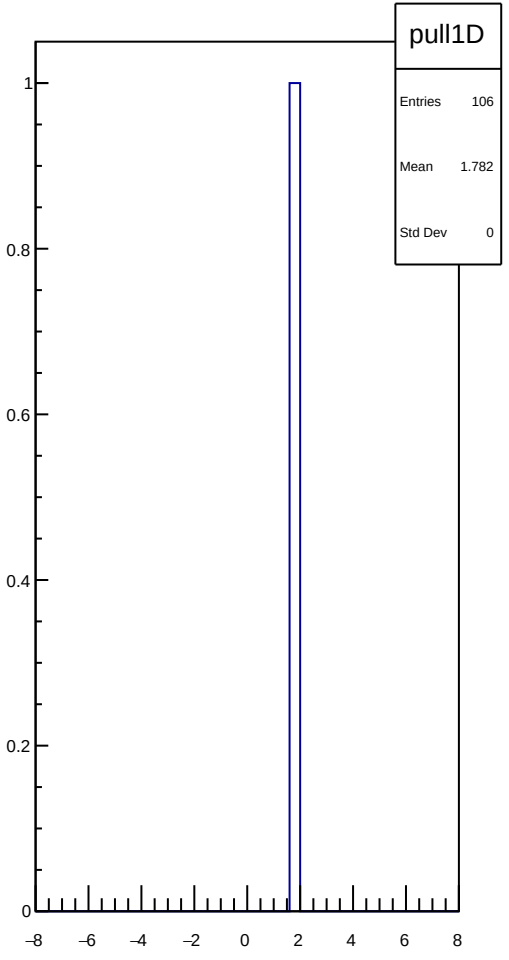

yield_bpm4ecX_rms vs run
χ² / ndf 9.592e+04 / 105
p0 0.05511 ± 3.97e−05
0.25
0.2
0.15
0.1
0.05

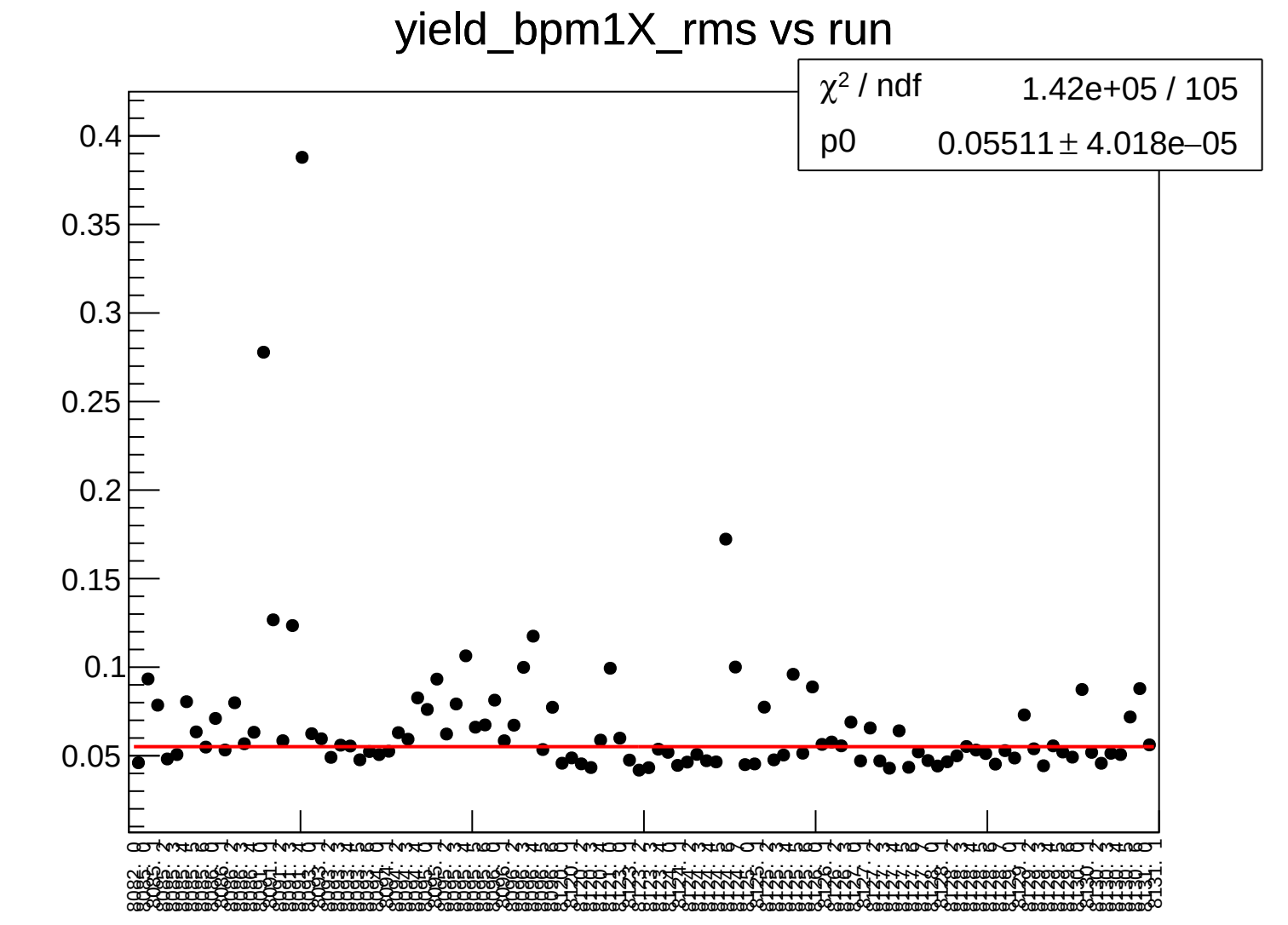

yield_bpm4ecY_mean vs run
χ² / ndf 3.899e+05 / 105
p0 −0.03719 ± 1.425e−05
−0.01
−0.02
−0.03
−0.04
−0.05
−0.06
pull
Entries 106
Mean −428.7
Std Dev 0
100
50
0
−50
−100

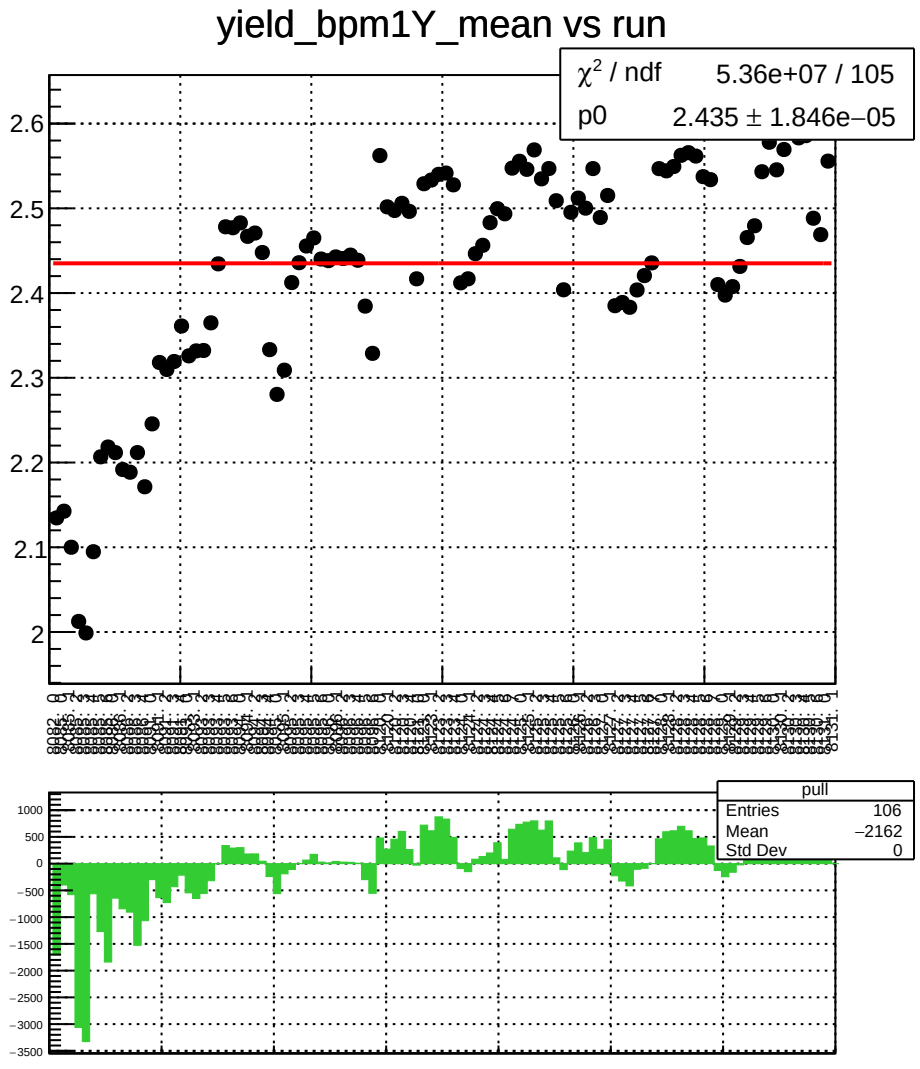

pull1D
Entries 106
Mean −2.644
Std Dev 2.103
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

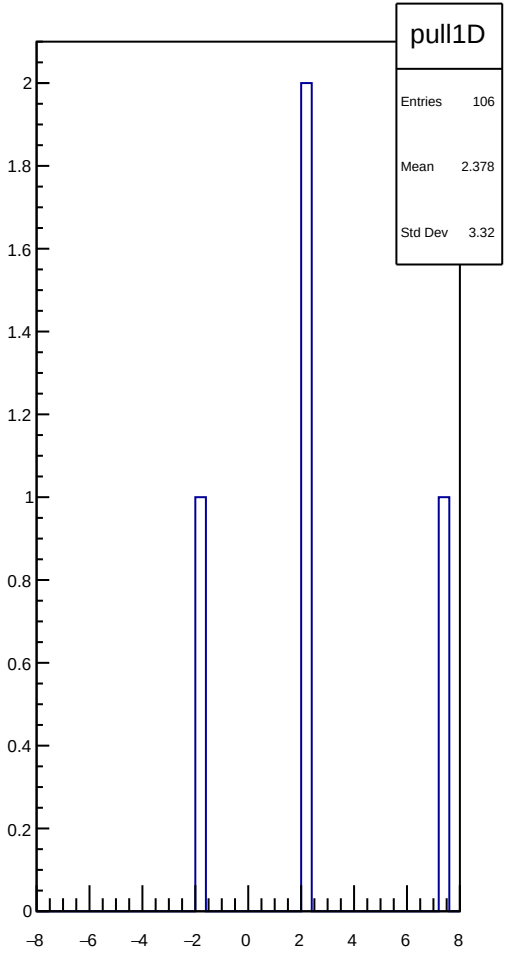

yield_bpm4ecY_rms vs run
χ² / ndf 1.024e+05 / 105
p0 0.01397 ± 1.008e–05
0.05
0.04
0.03
0.02
0.01

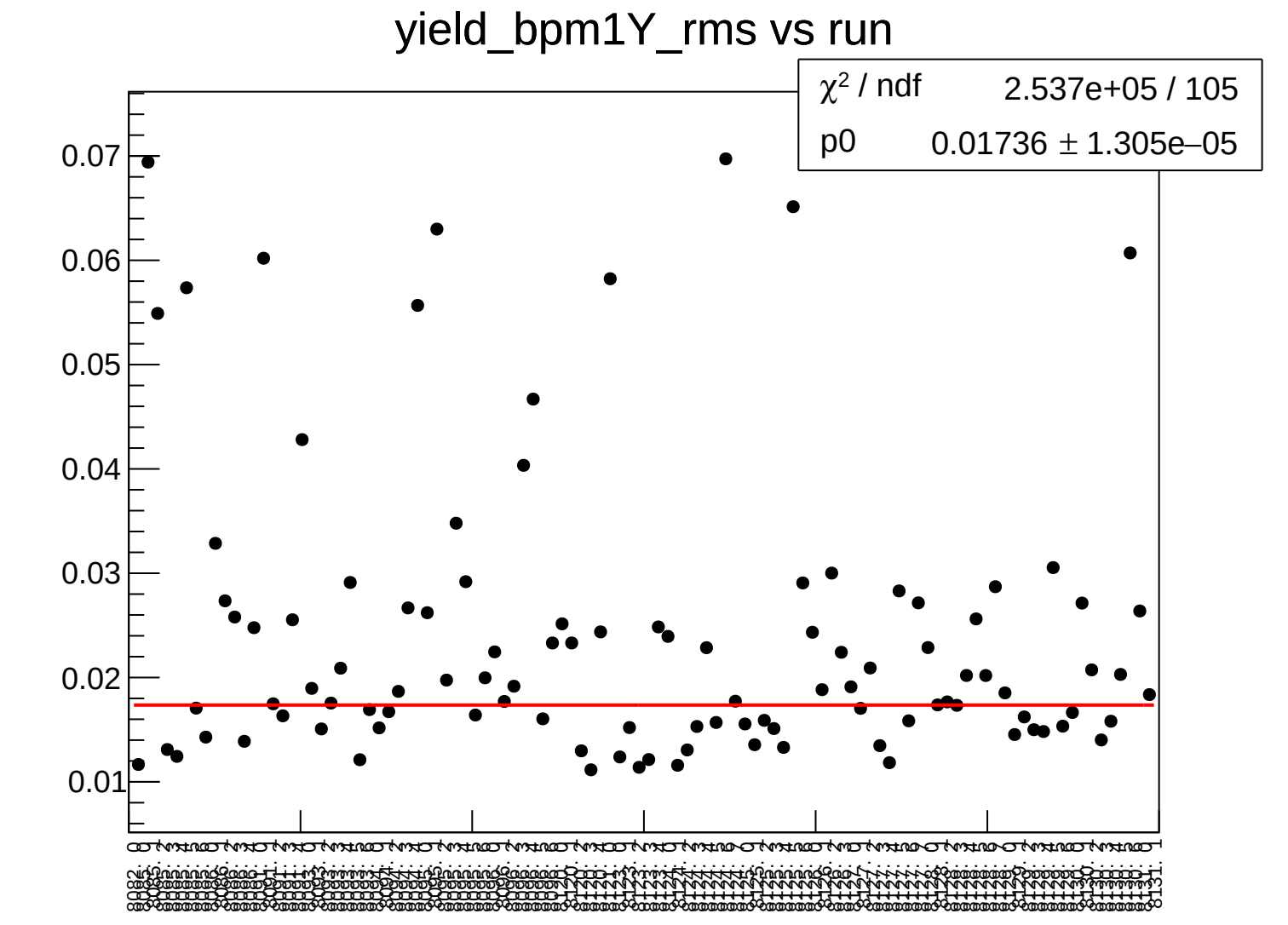

yield_bpm1X_mean vs run
χ² / ndf 2.419e+07 / 105
p0 −2.035 ± 5.683e−05
−1
−1.2
−1.4
−1.6
−1.8
−2
−2.2
−2.4
pull
Entries 106
Mean −217.6
Std Dev 0
1500
1000
500
0
−500

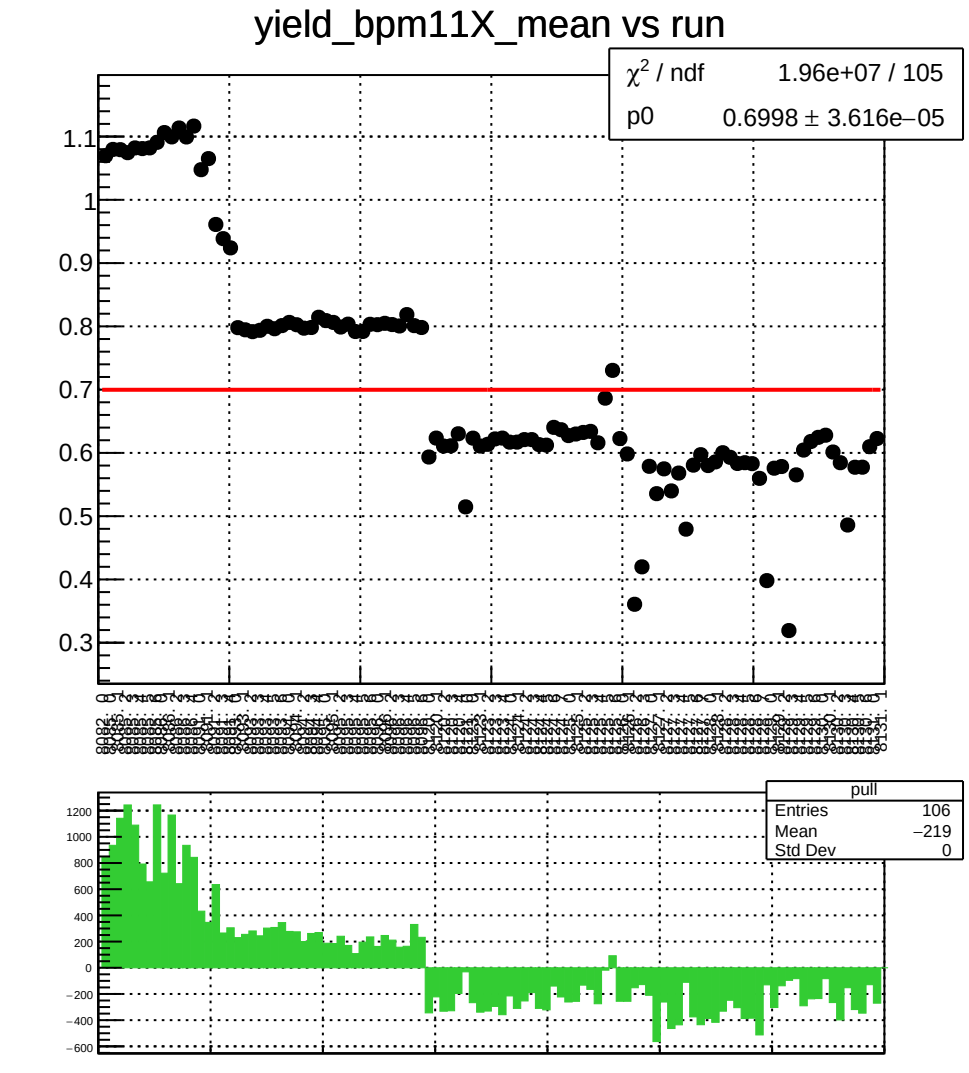

pull1D
Entries 106
Mean 1.782
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

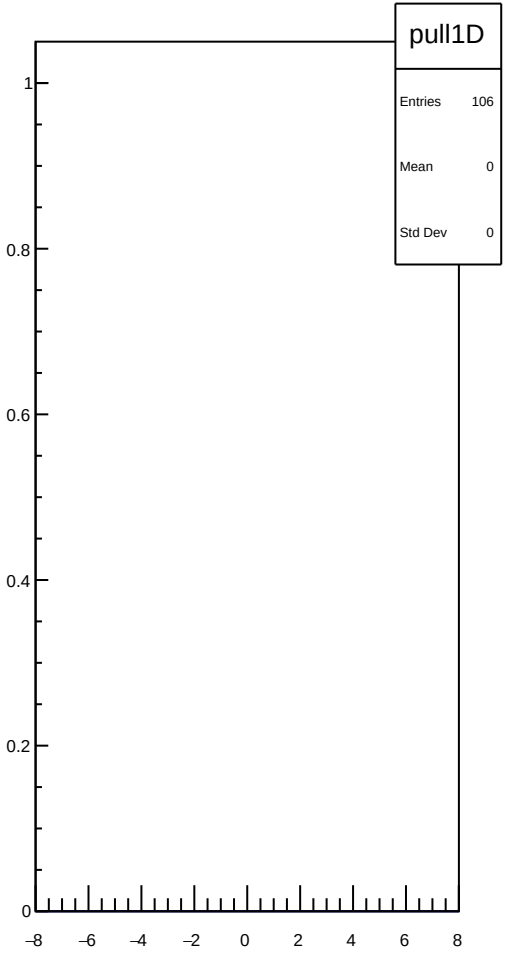

yield_bpm1X_rms vs run
χ² / ndf 1.42e+05 / 105
p0 0.05511 ± 4.018e–05
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

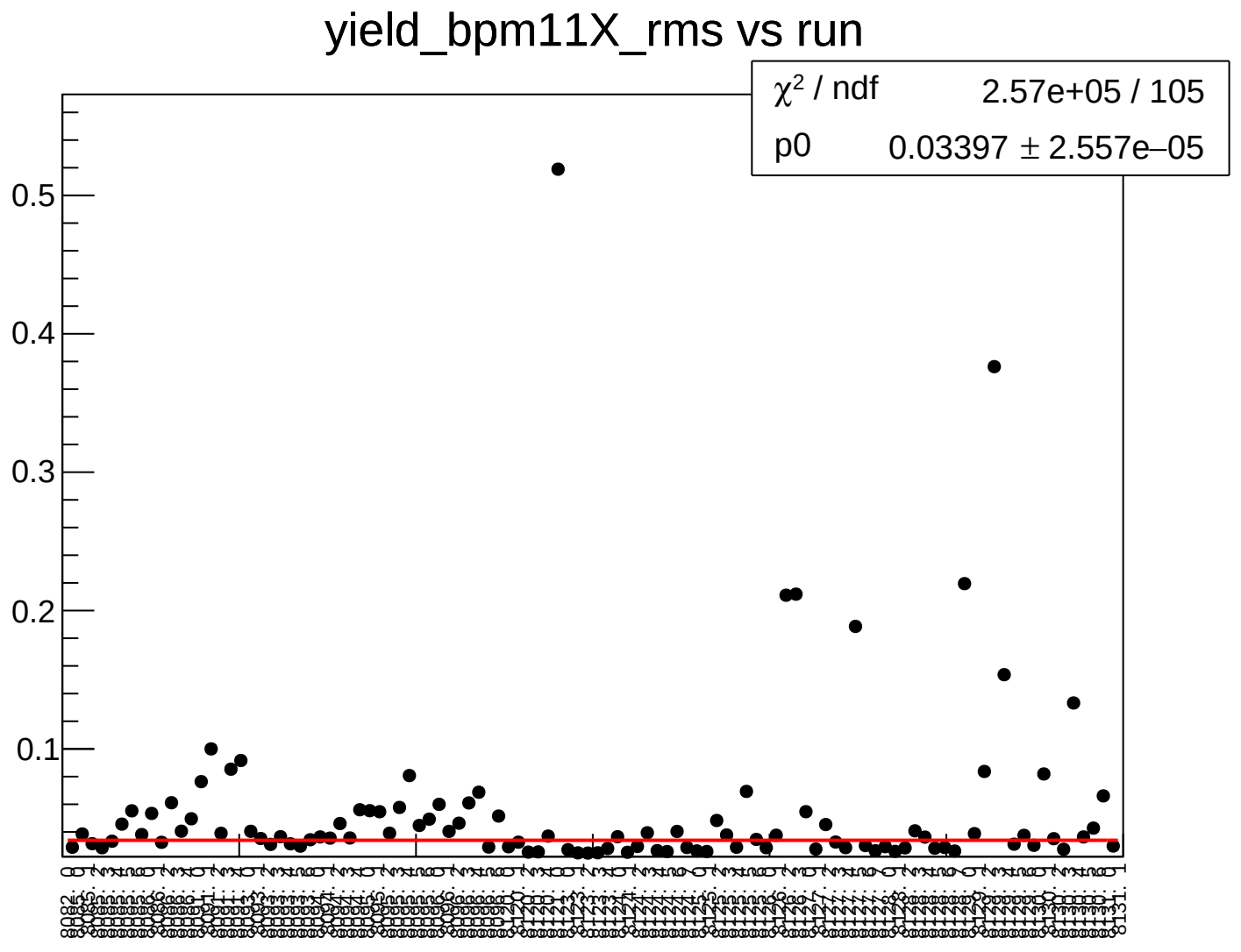

yield_bpm1Y_mean vs run
χ² / ndf 5.36e+07 / 105
p0 2.435 ± 1.846e−05
pull
Entries 106
Mean −2162
Std Dev 0

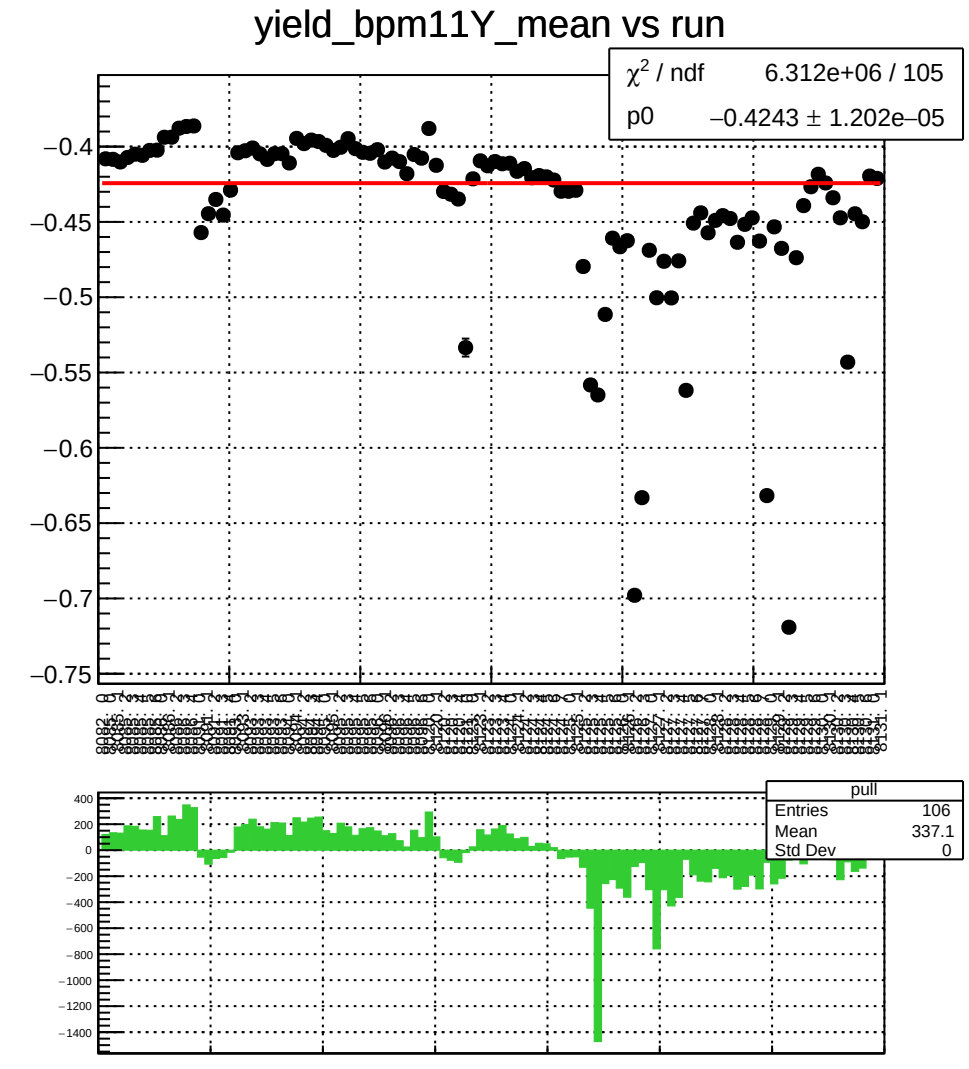

pull1D
Entries 106
Mean 2.378
Std Dev 3.32

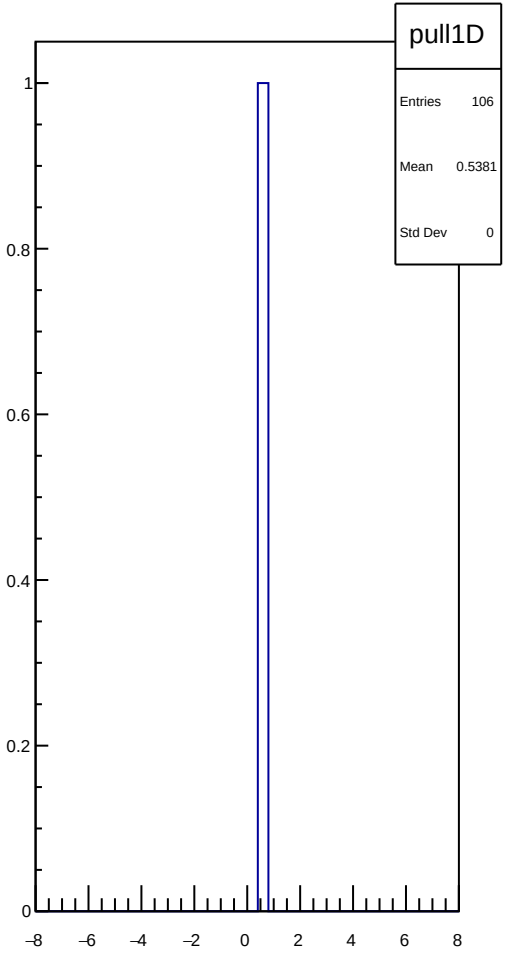

yield_bpm1Y_rms vs run
χ² / ndf 2.537e+05 / 105
p0 0.01736 ± 1.305e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

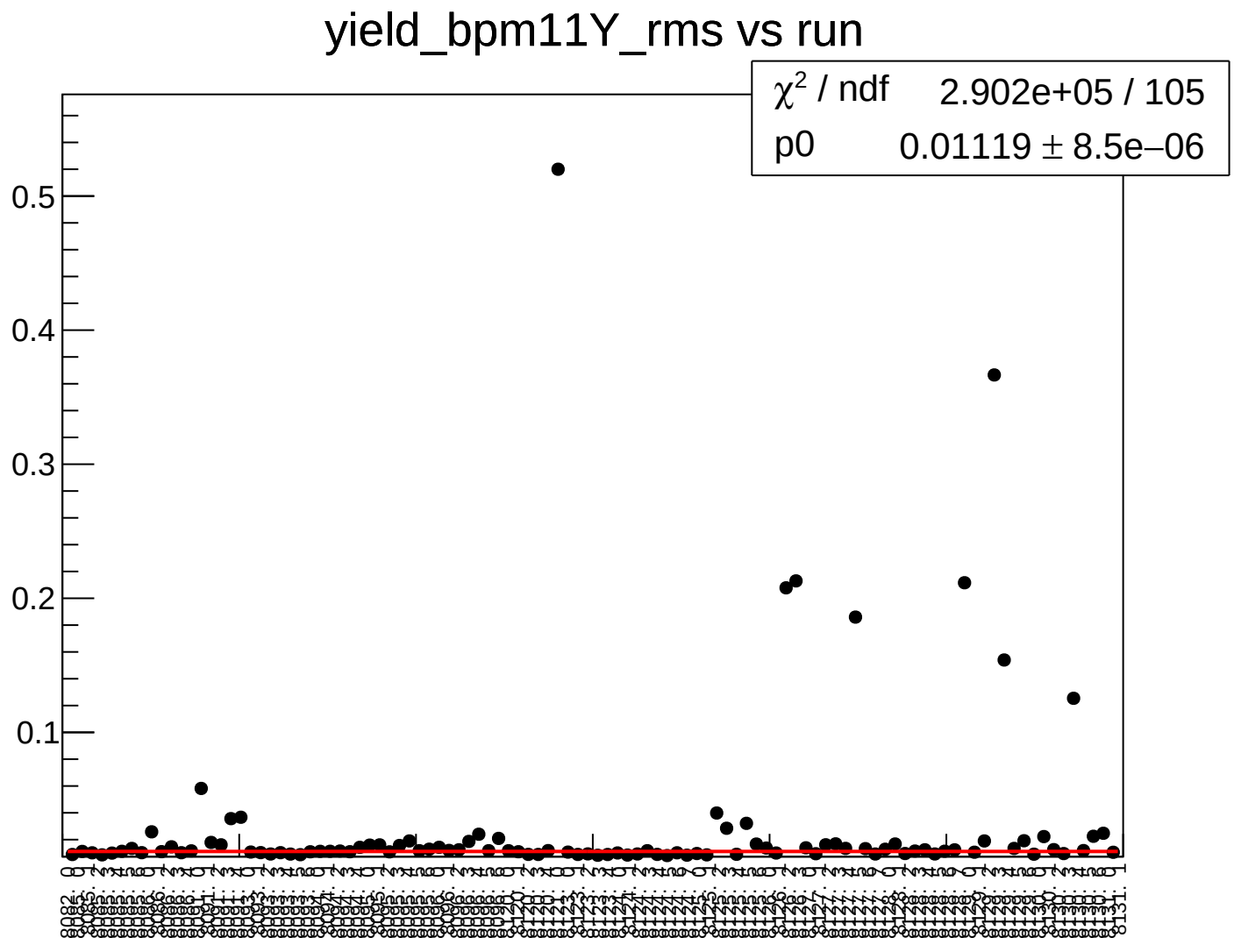

yield_bpm11X_mean vs run
χ² / ndf 1.96e+07 / 105
p0 0.6998 ± 3.616e−05
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
pull
Entries 106
Mean −219
Std Dev 0
1200
1000
800
600
400
200
0
−200
−400
−600

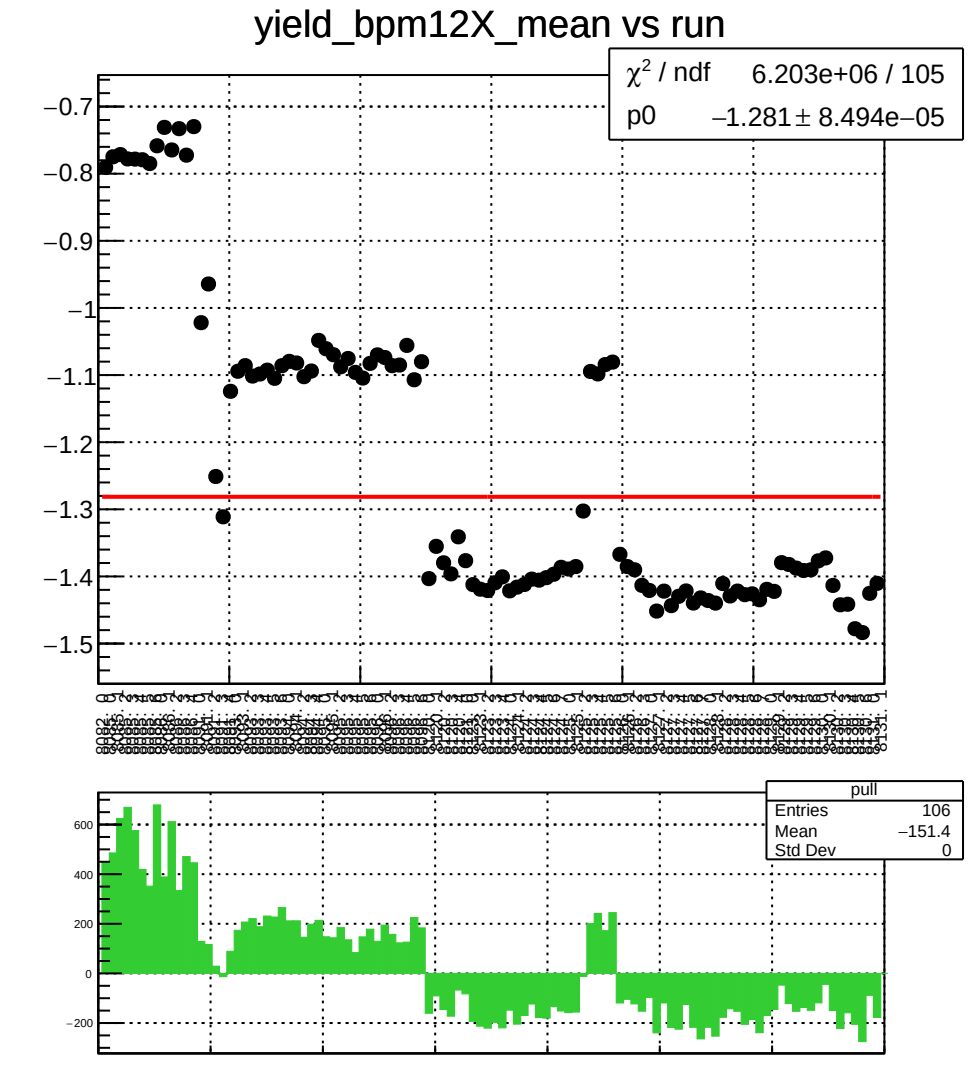

pull1D
Entries 106
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

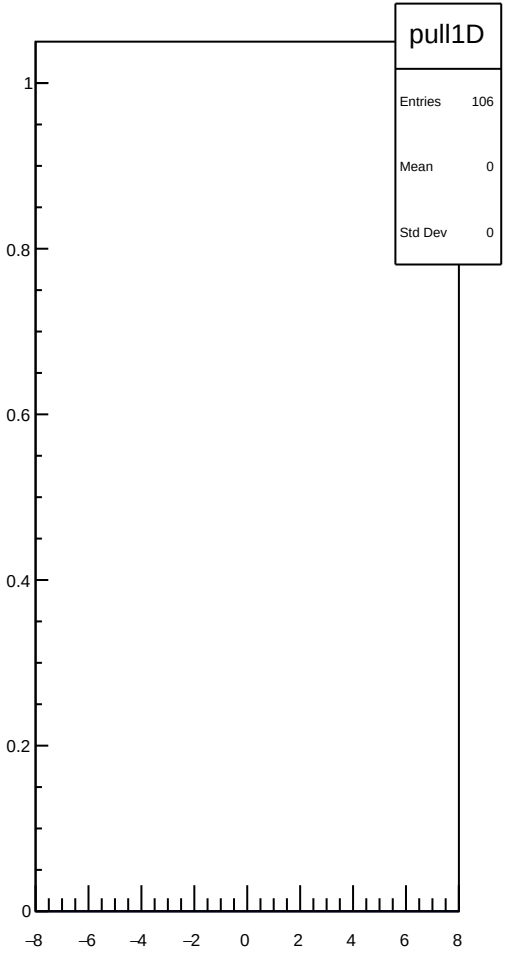

yield_bpm11X_rms vs run
χ² / ndf 2.57e+05 / 105
p0 0.03397 ± 2.557e–05
0.5
0.4
0.3
0.2
0.1

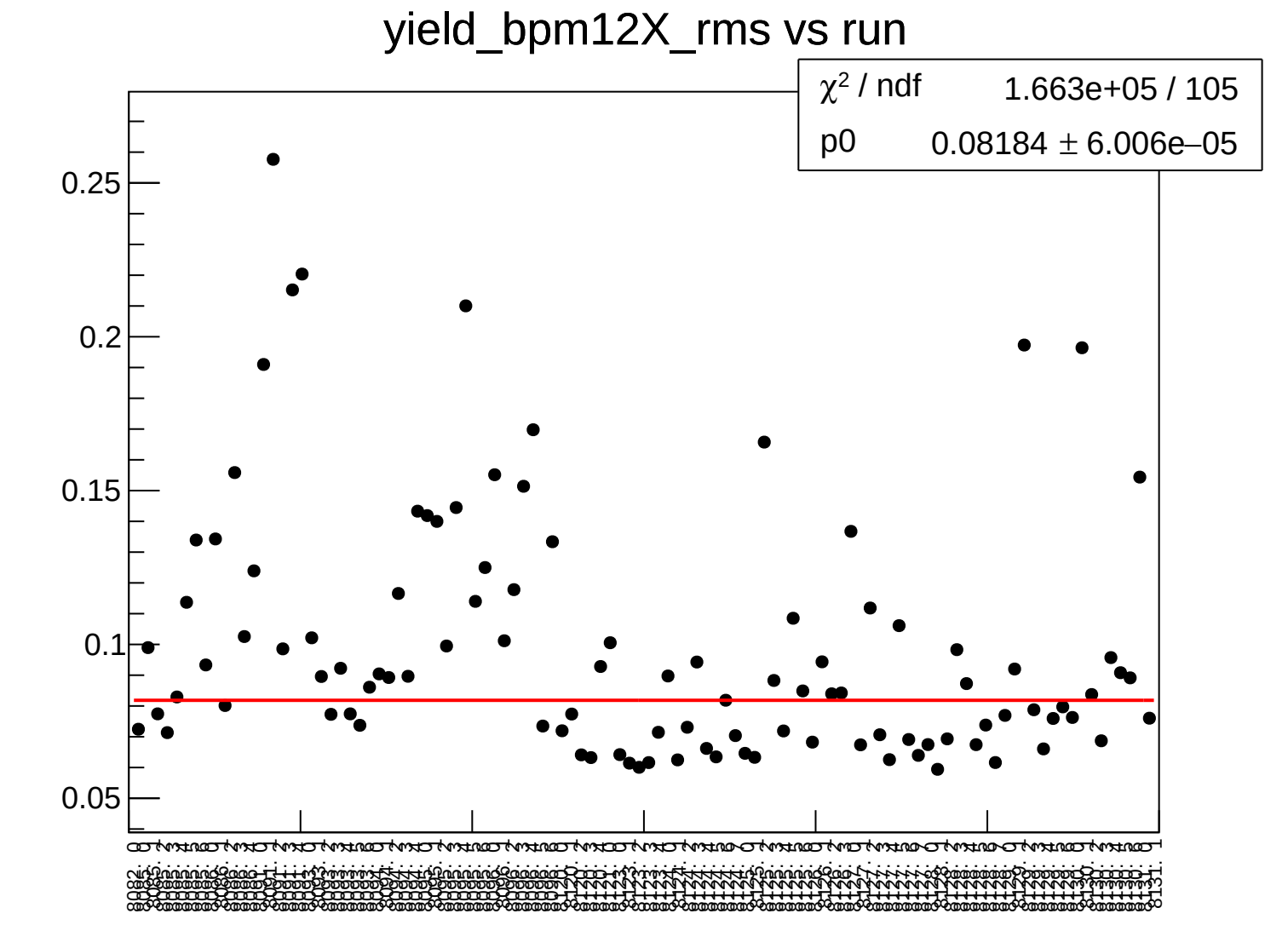

yield_bpm11Y_mean vs run
χ² / ndf 6.312e+06 / 105
p0 −0.4243 ± 1.202e−05
−0.4
−0.45
−0.5
−0.55
−0.6
−0.65
−0.7
−0.75
pull
Entries 106
Mean 337.1
Std Dev 0
400
200
0
−200
−400
−600
−800
−1000
−1200
−1400

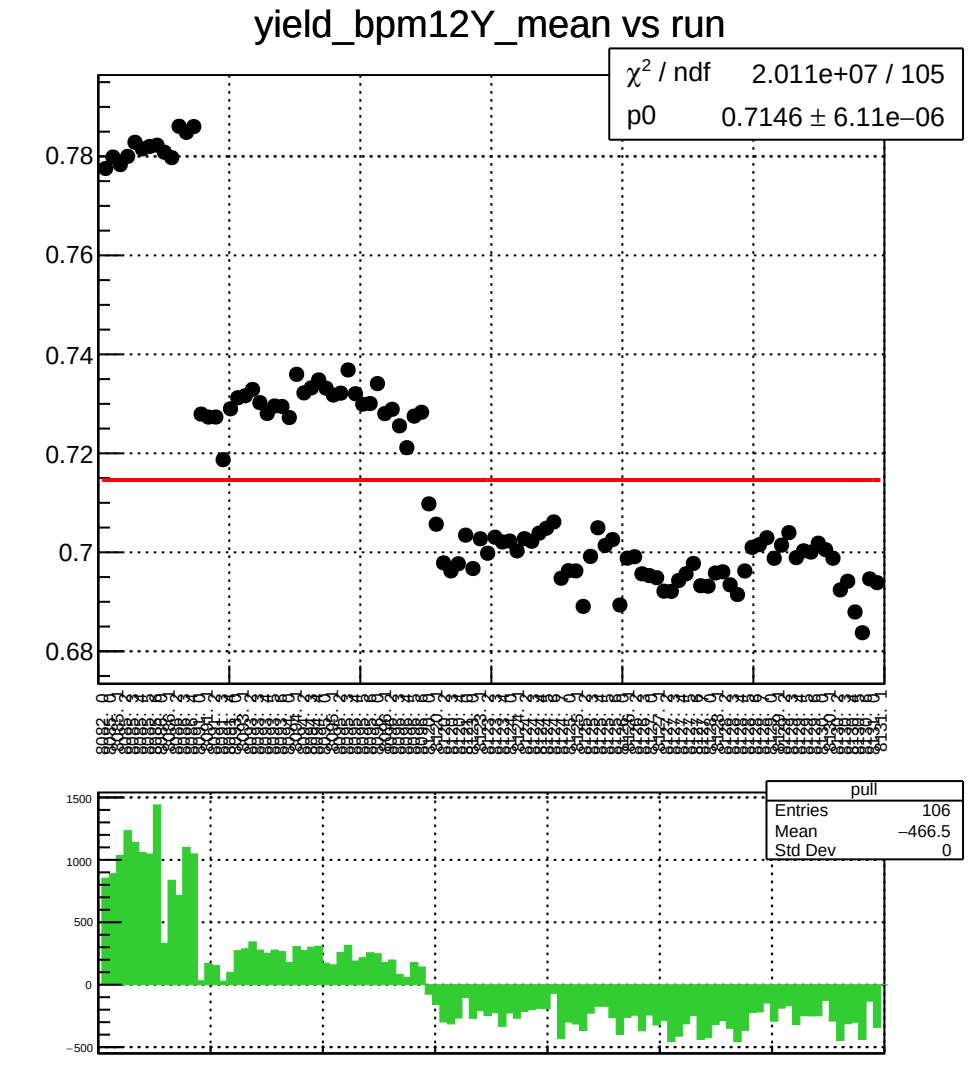

pull1D
Entries 106
Mean 0.5381
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

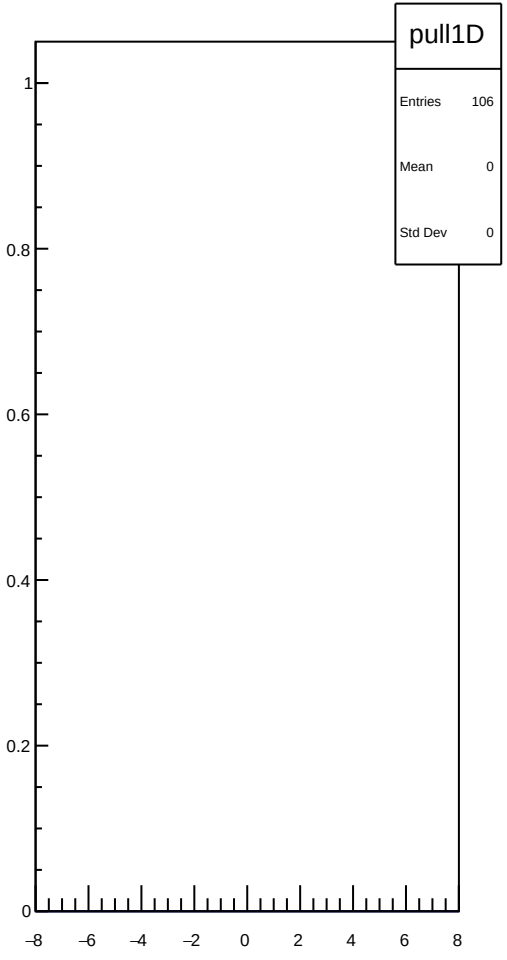

yield_bpm11Y_rms vs run
χ² / ndf 2.902e+05 / 105
p0 0.01119 ± 8.5e−06
0.5
0.4
0.3
0.2
0.1

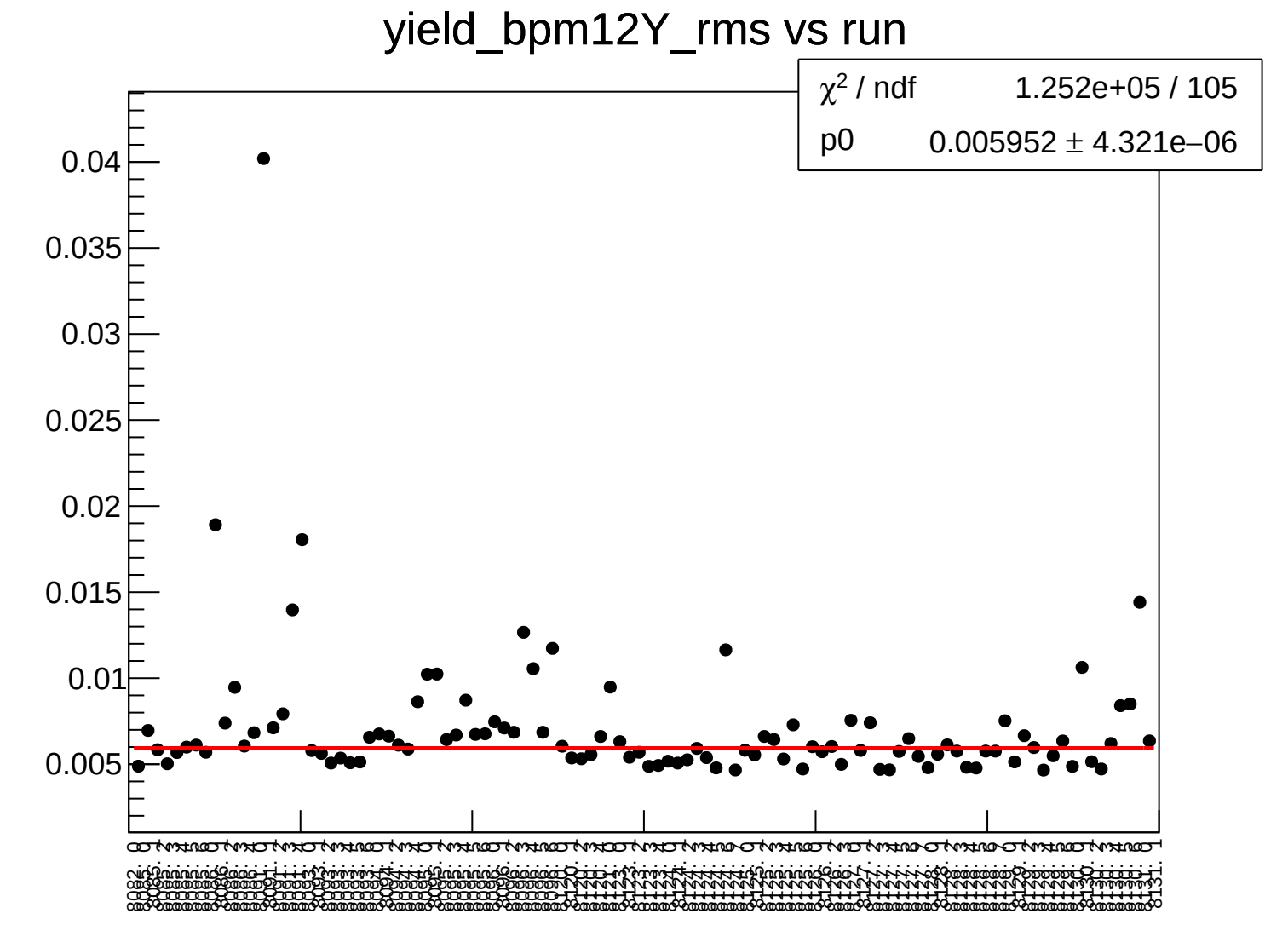

yield_bpm12X_mean vs run
χ² / ndf 6.203e+06 / 105
p0 −1.281 ± 8.494e−05
−0.7
−0.8
−0.9
−1
−1.1
−1.2
−1.3
−1.4
−1.5
pull
Entries 106
Mean −151.4
Std Dev 0
600
400
200
0
−200

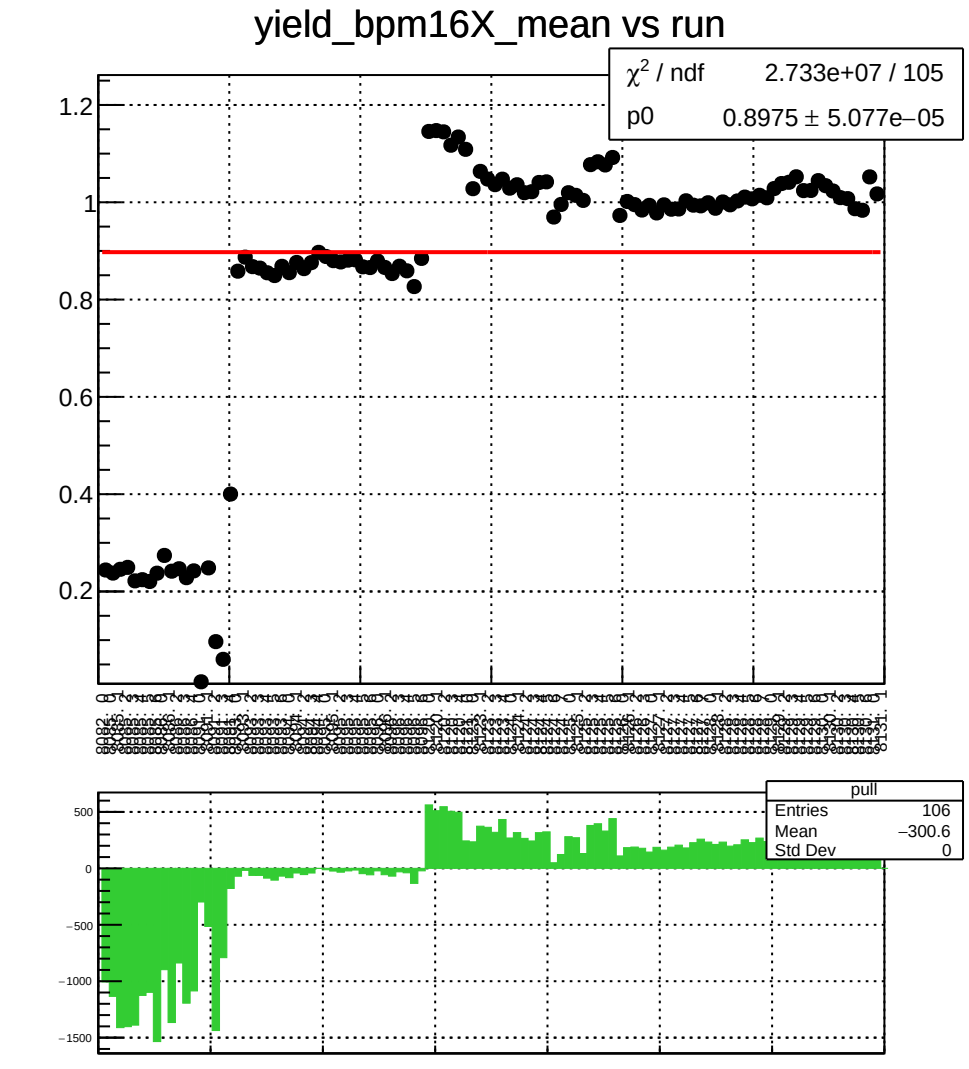

pull1D
Entries 106
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

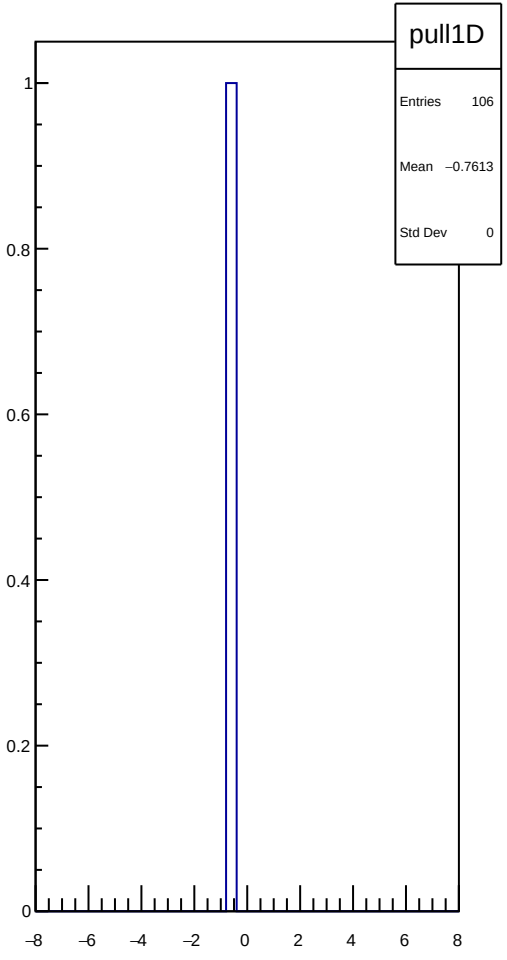

yield_bpm12X_rms vs run
χ² / ndf 1.663e+05 / 105
p0 0.08184 ± 6.006e–05
0.25
0.2
0.15
0.1
0.05

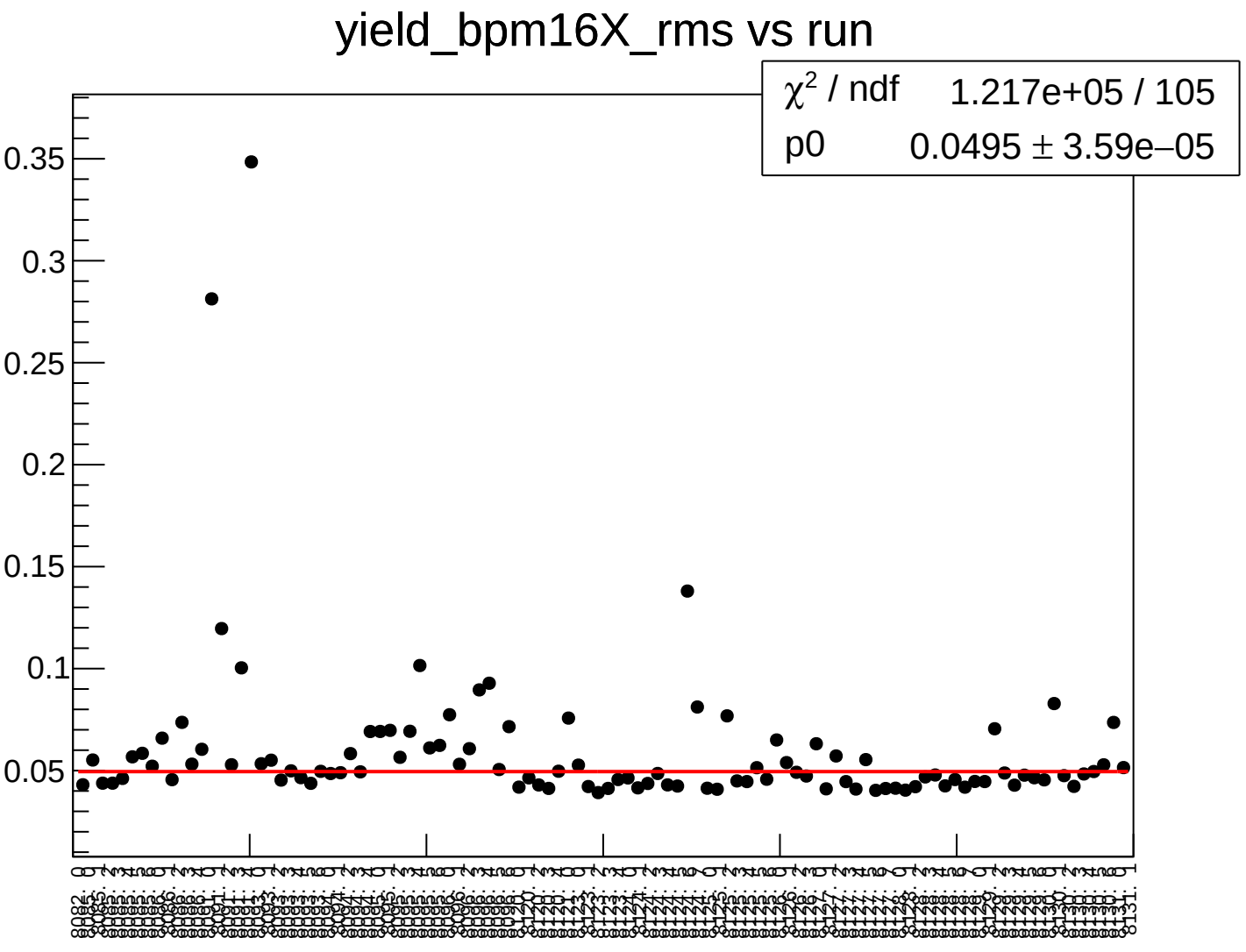

yield_bpm12Y_mean vs run
χ² / ndf 2.011e+07 / 105
p0 0.7146 ± 6.11e−06
0.78
0.76
0.74
0.72
0.7
0.68
pull
Entries 106
Mean −466.5
Std Dev 0
1500
1000
500
0
−500

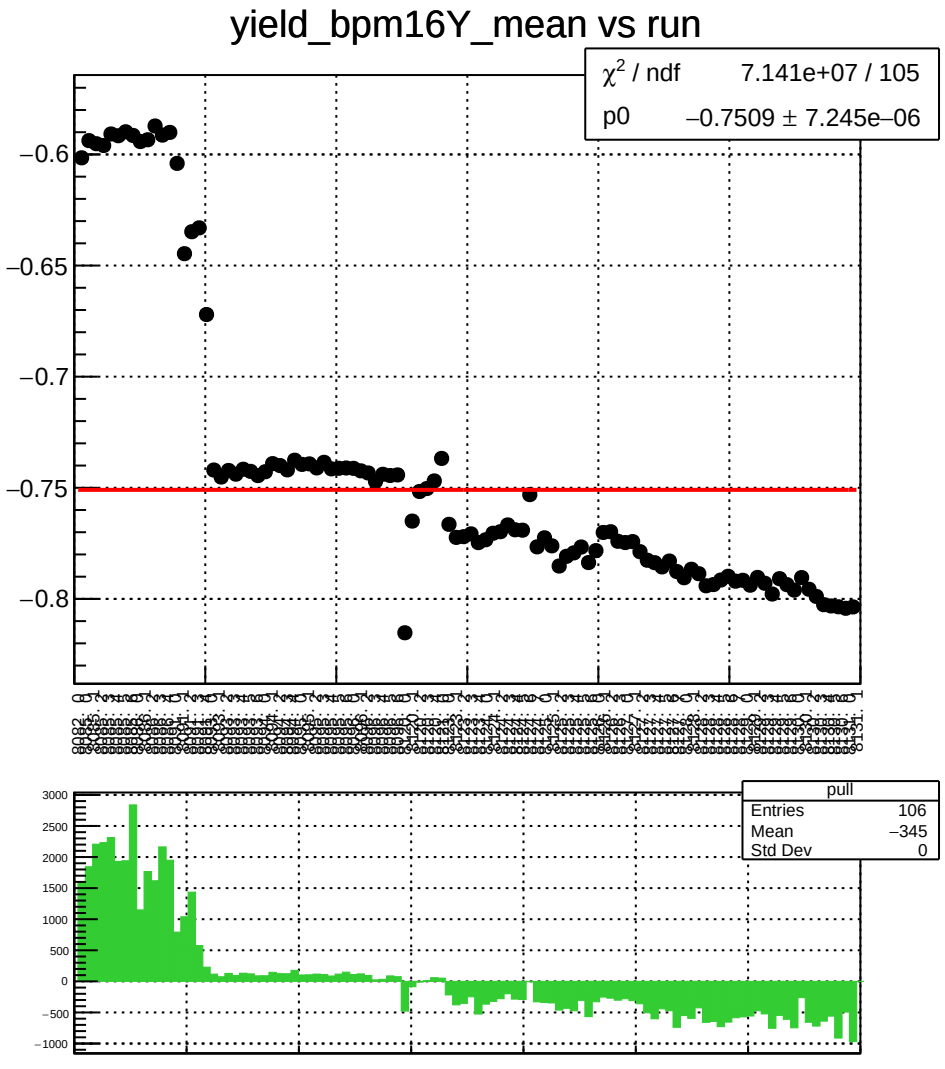

pull1D
Entries 106
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

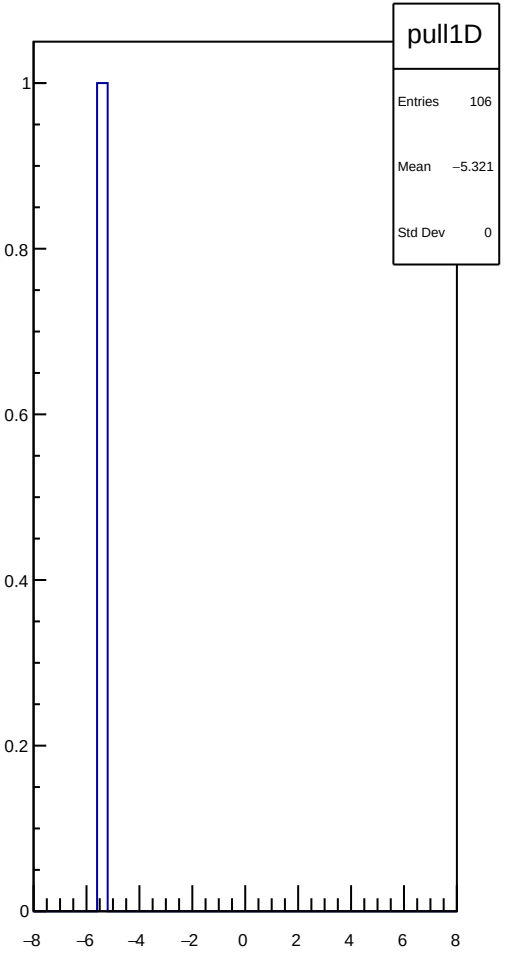

yield_bpm12Y_rms vs run
$\chi^2$ / ndf 1.252e+05 / 105
p0 0.005952 ± 4.321e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

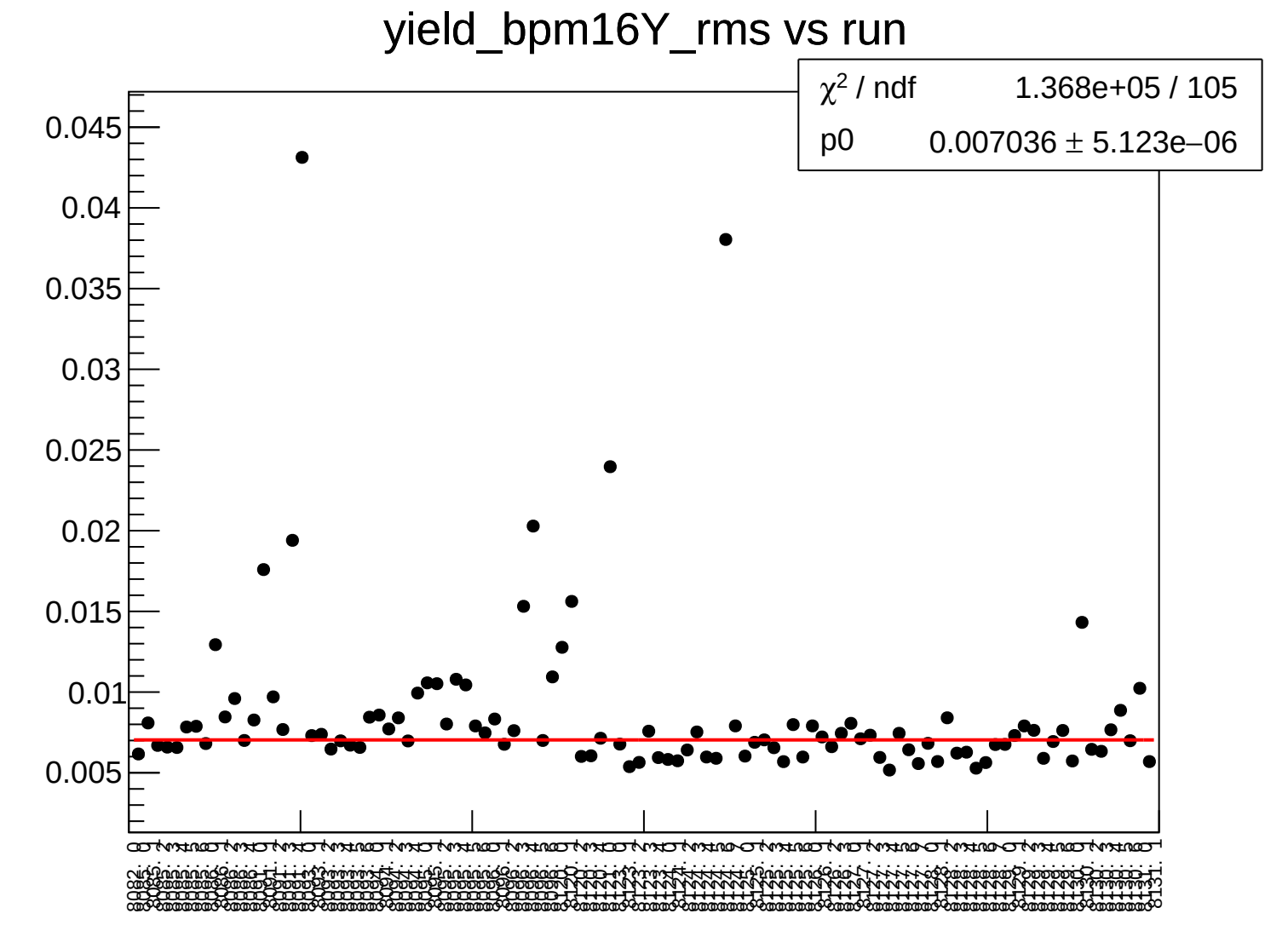

yield_bpm16X_mean vs run
χ² / ndf 2.733e+07 / 105
p0 0.8975 ± 5.077e−05
1.2
1
0.8
0.6
0.4
0.2
pull
Entries 106
Mean −300.6
Std Dev 0
500
0
−500
−1000
−1500

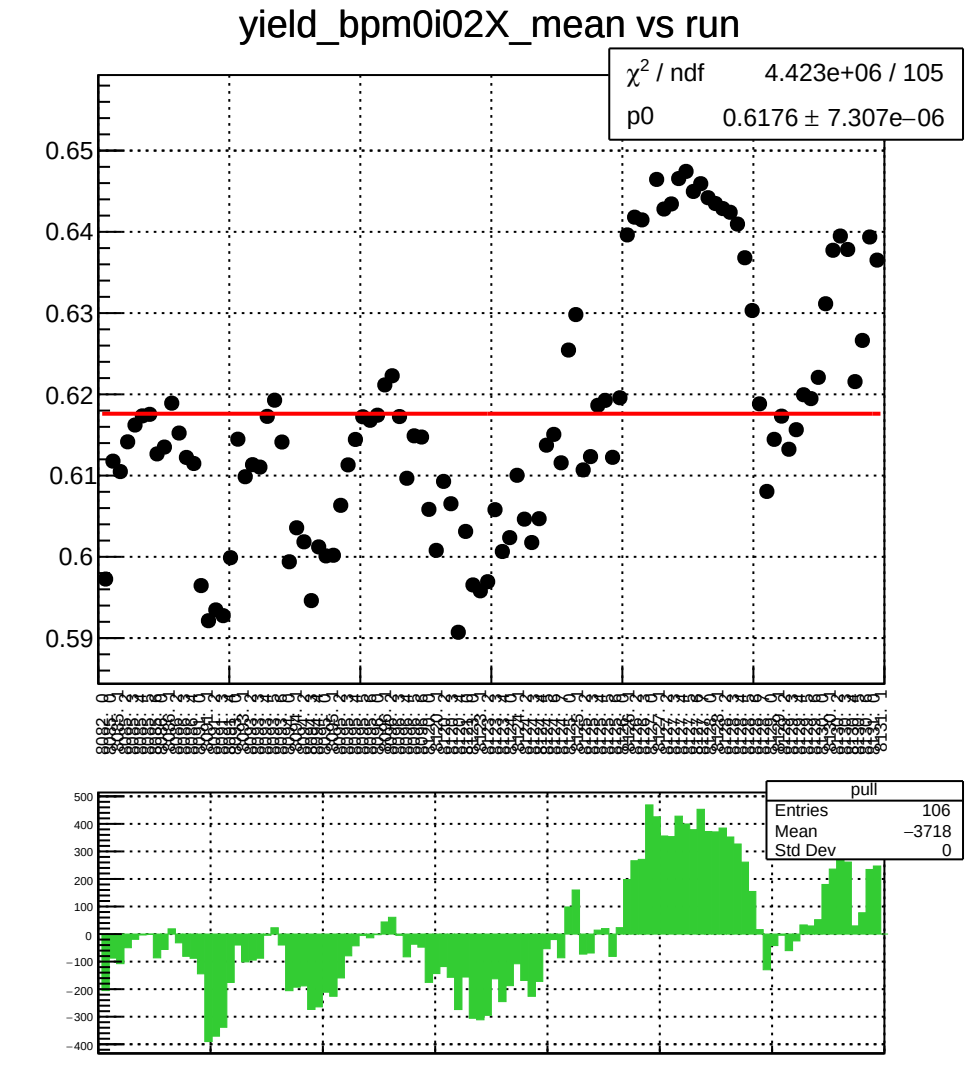

pull1D
Entries 106
Mean −0.7613
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

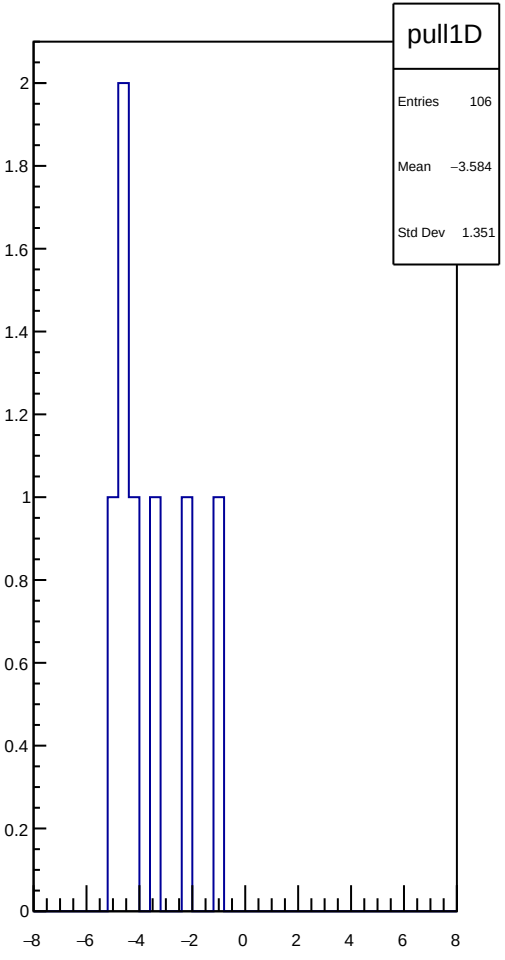

yield_bpm16X_rms vs run
χ² / ndf 1.217e+05 / 105
p0 0.0495 ± 3.59e−05
0.35
0.3
0.25
0.2
0.15
0.1
0.05

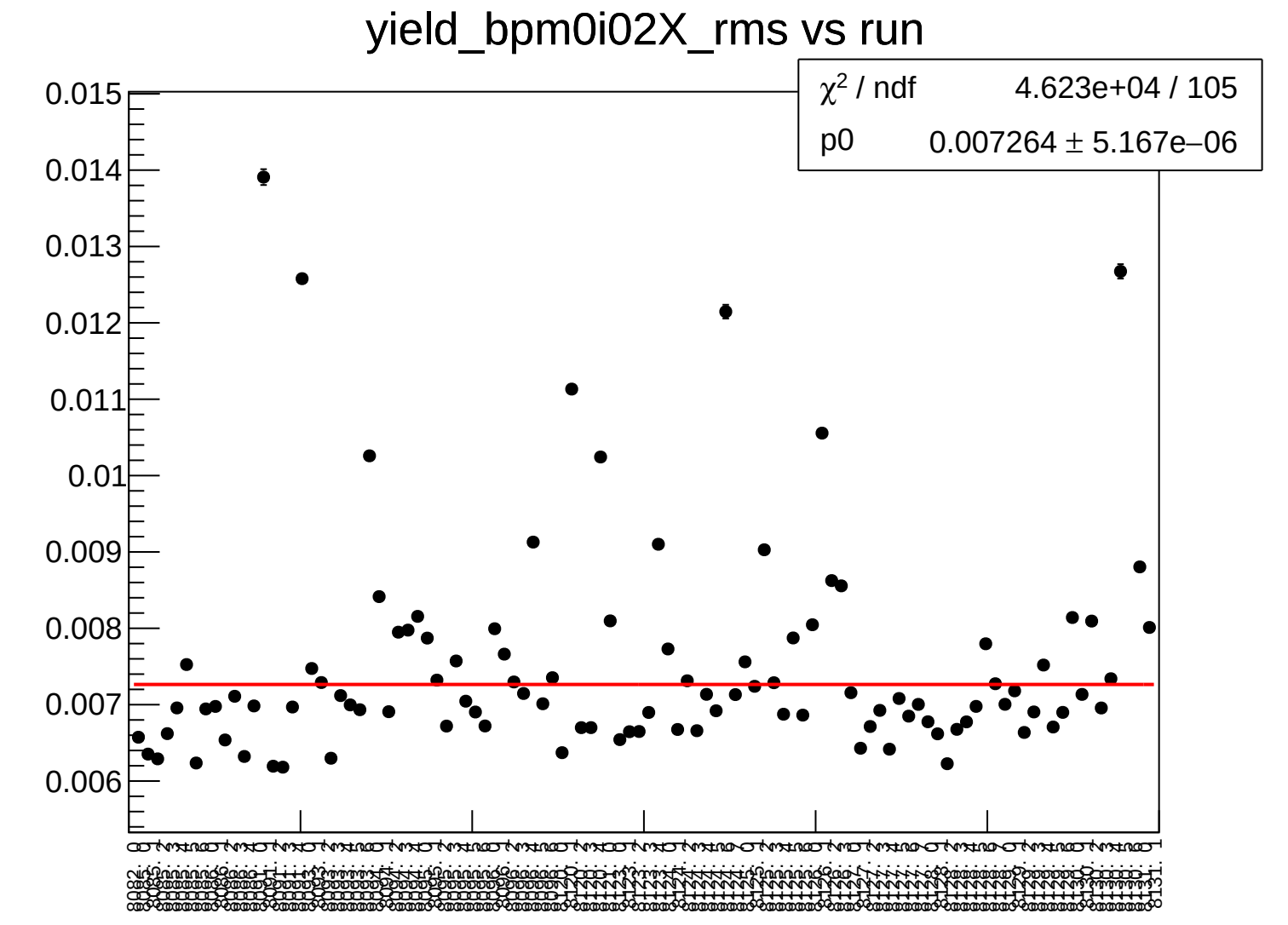

yield_bpm16Y_mean vs run
χ² / ndf 7.141e+07 / 105
p0 −0.7509 ± 7.245e−06
−0.6
−0.65
−0.7
−0.75
−0.8
pull
Entries 106
Mean −345
Std Dev 0
3000
2500
2000
1500
1000
500
0
−500
−1000

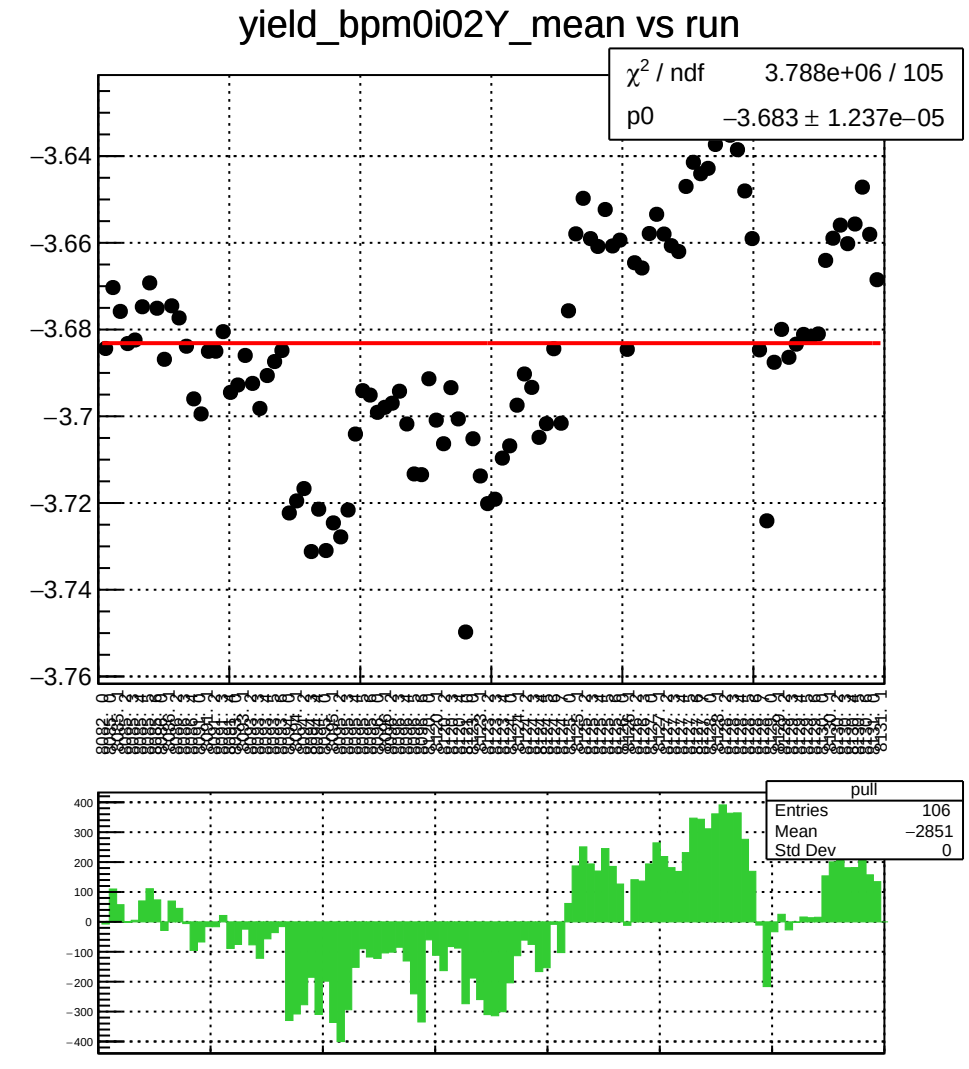

pull1D
Entries 106
Mean −5.321
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

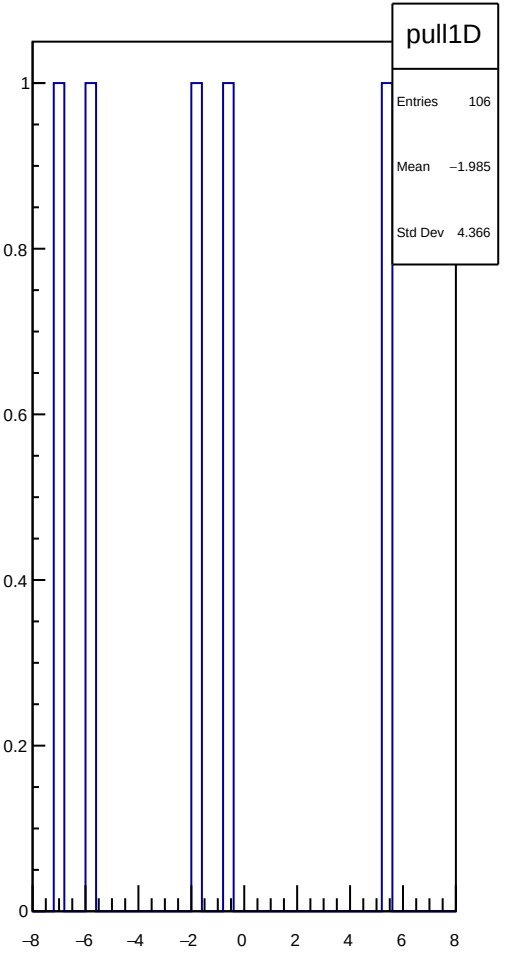

yield_bpm16Y_rms vs run
χ² / ndf 1.368e+05 / 105
p0 0.007036 ± 5.123e−06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

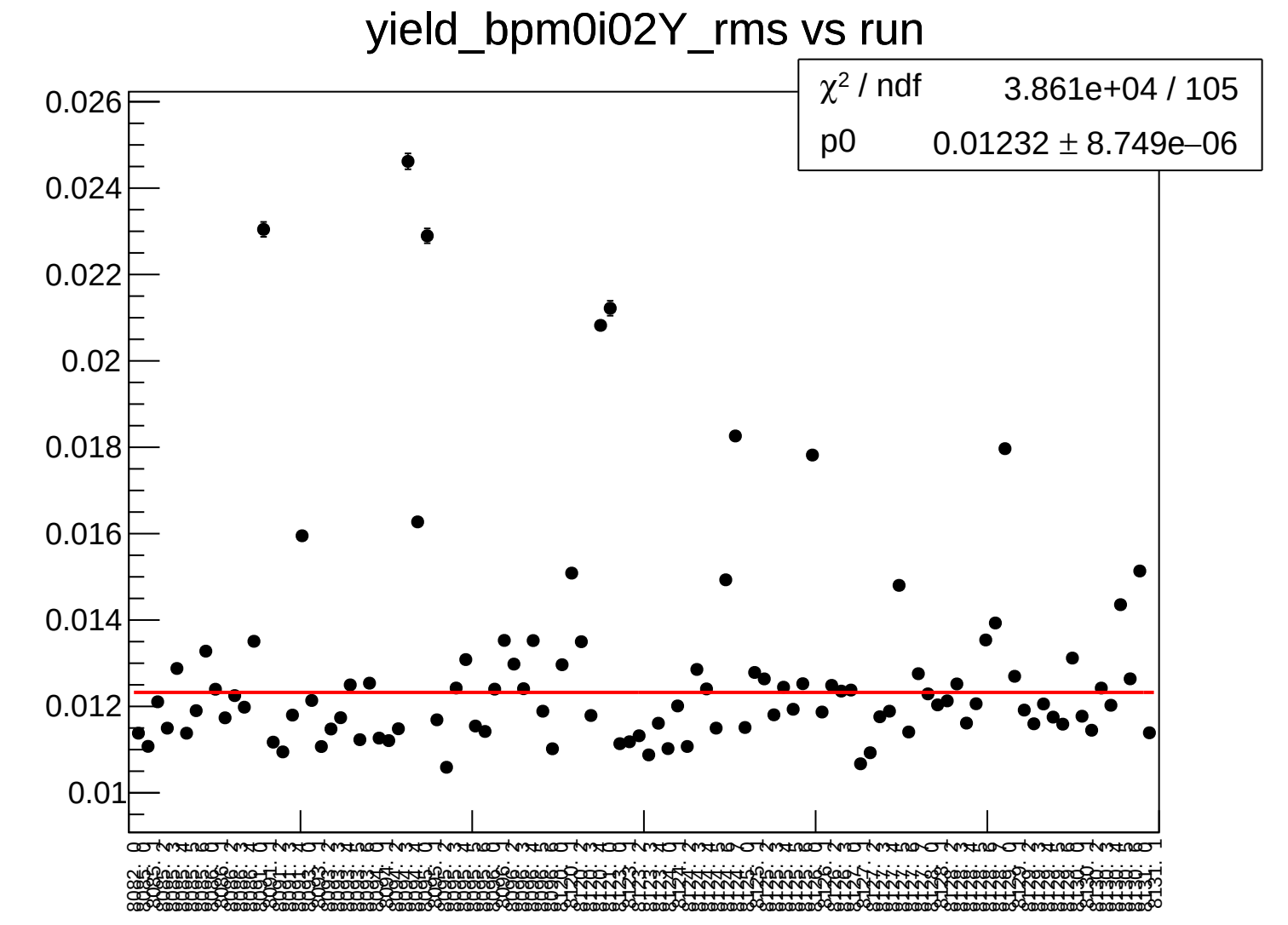

yield_bpm0i02X_mean vs run
χ² / ndf 4.423e+06 / 105
p0 0.6176 ± 7.307e−06
0.65
0.64
0.63
0.62
0.61
0.6
0.59
pull
Entries 106
Mean −3718
Std Dev 0
500
400
300
200
100
0
−100
−200
−300
−400

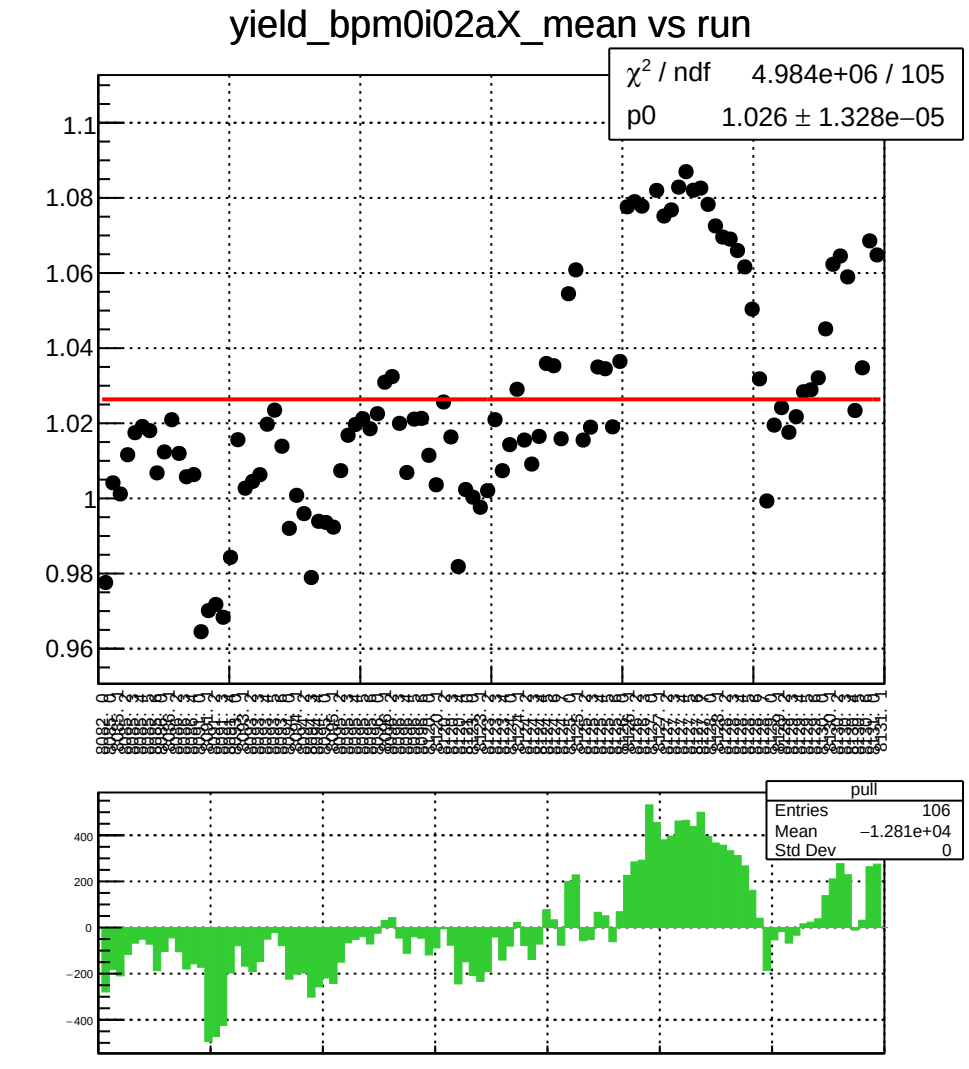

pull1D
Entries 106
Mean −3.584
Std Dev 1.351
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

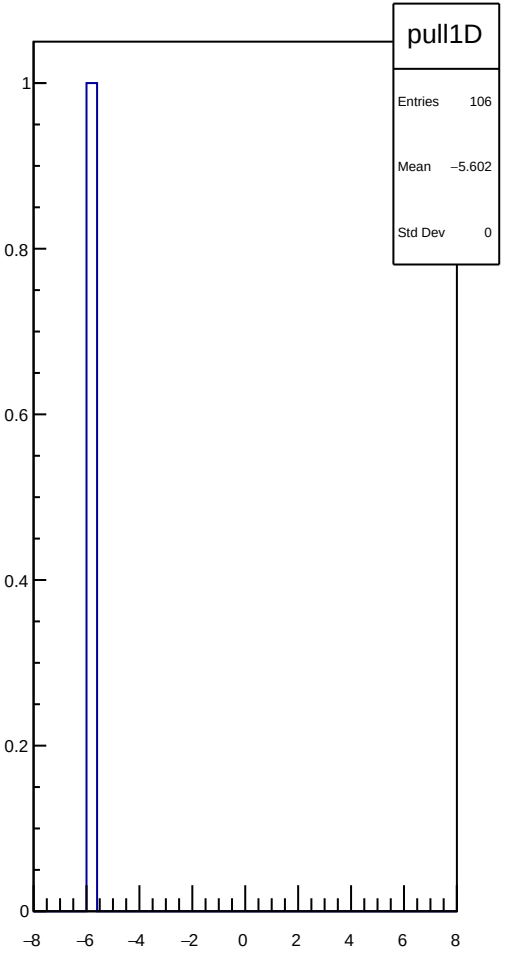

yield_bpm0i02X_rms vs run
χ² / ndf 4.623e+04 / 105
p0 0.007264 ± 5.167e−06
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006

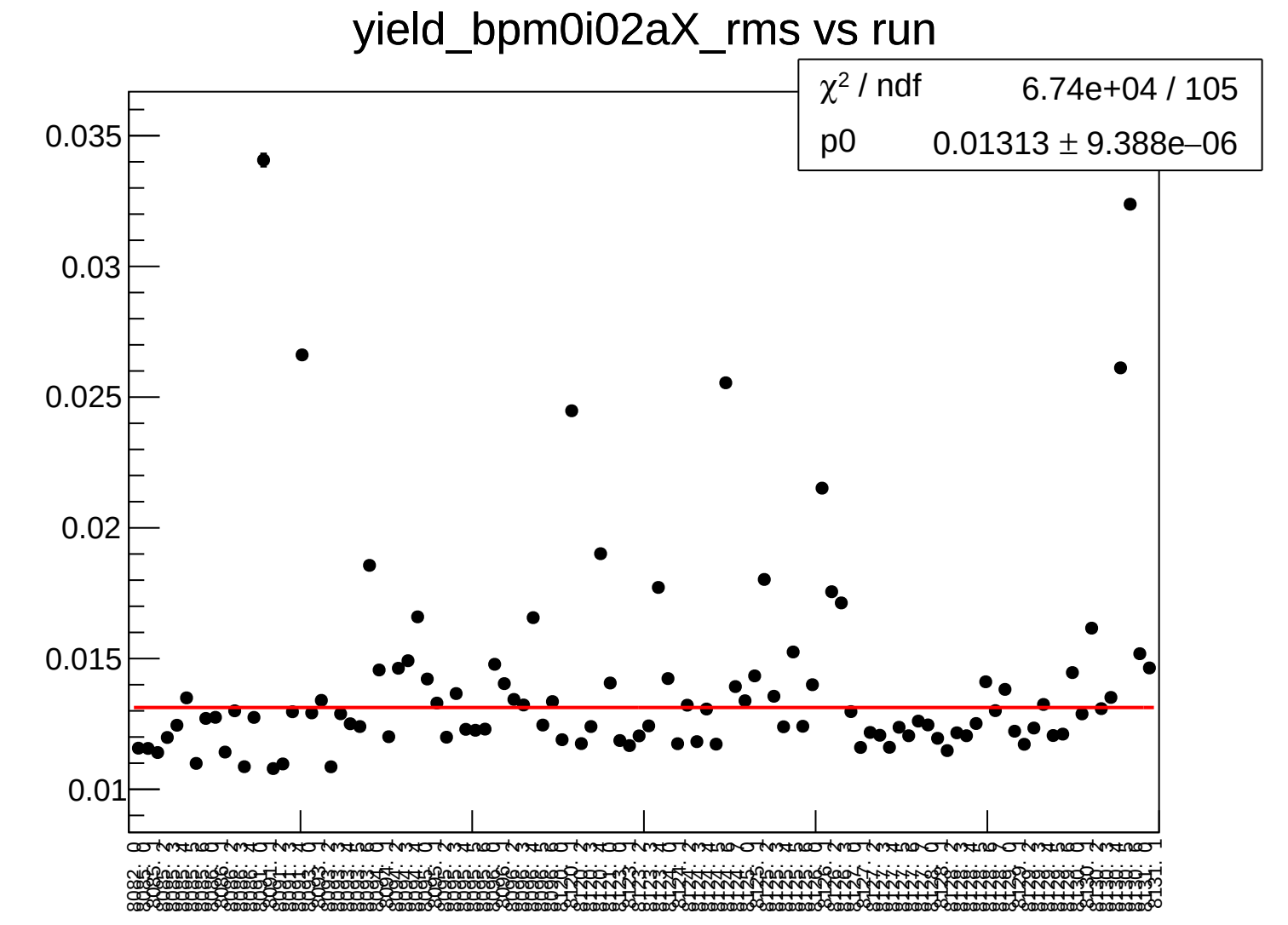

yield_bpm0i02Y_mean vs run
χ² / ndf 3.788e+06 / 105
p0 −3.683 ± 1.237e−05
−3.64
−3.66
−3.68
−3.7
−3.72
−3.74
−3.76
pull
Entries 106
Mean −2851
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400

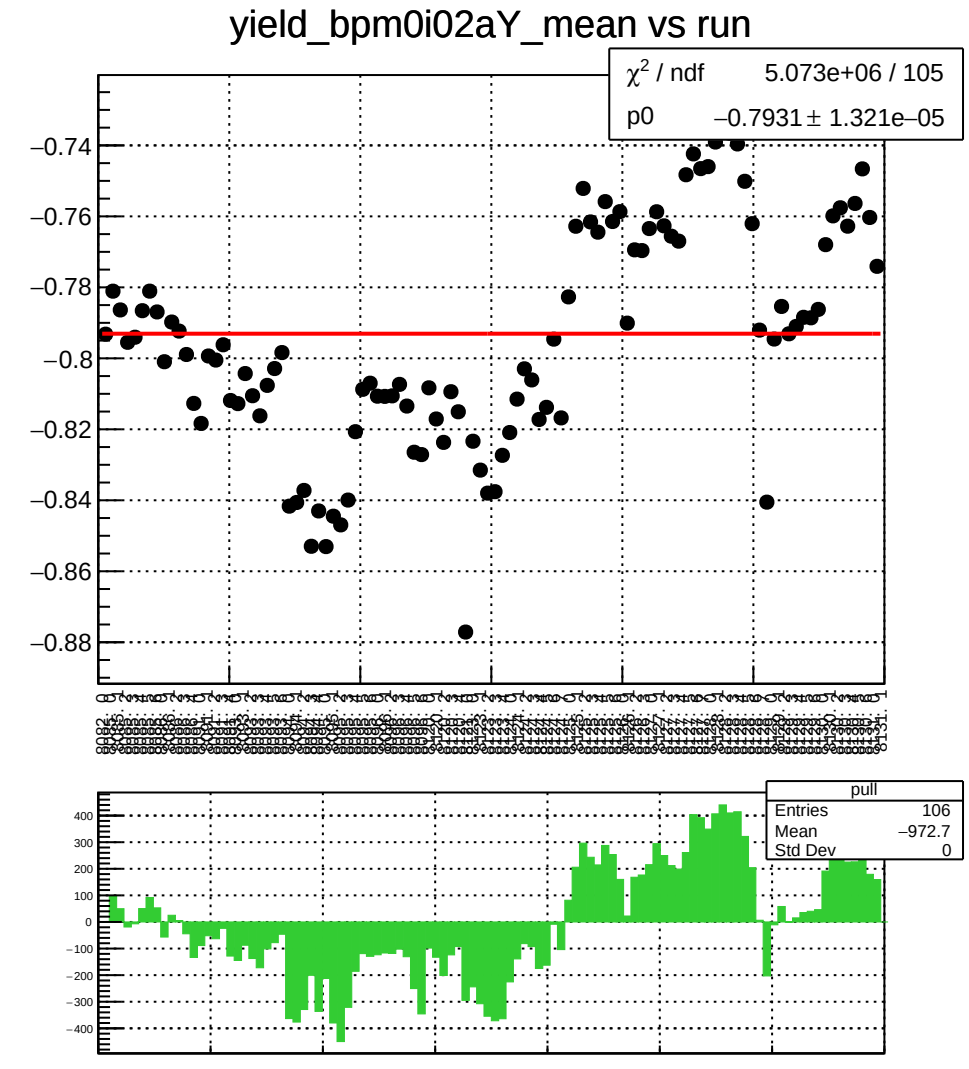

pull1D
Entries 106
Mean −1.985
Std Dev 4.366
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

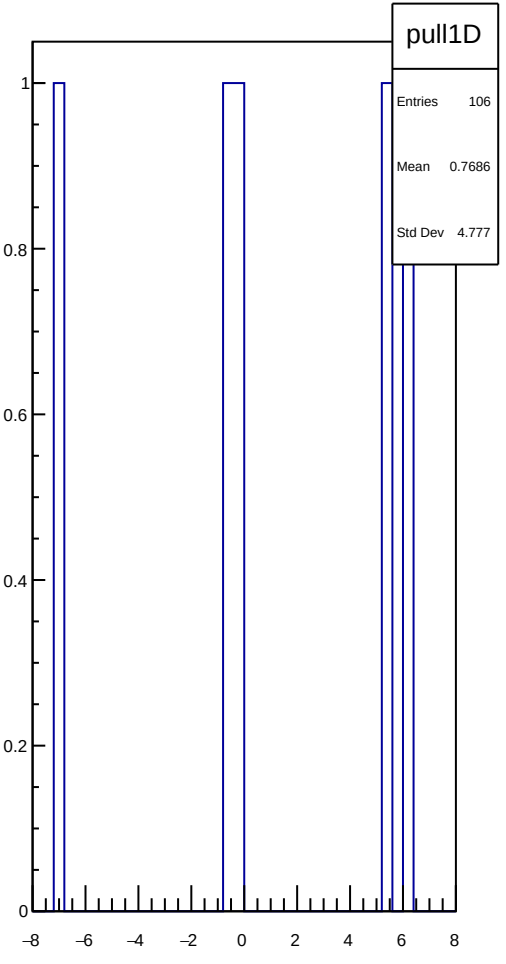

yield_bpm0i02Y_rms vs run
χ² / ndf 3.861e+04 / 105
p0 0.01232 ± 8.749e–06
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

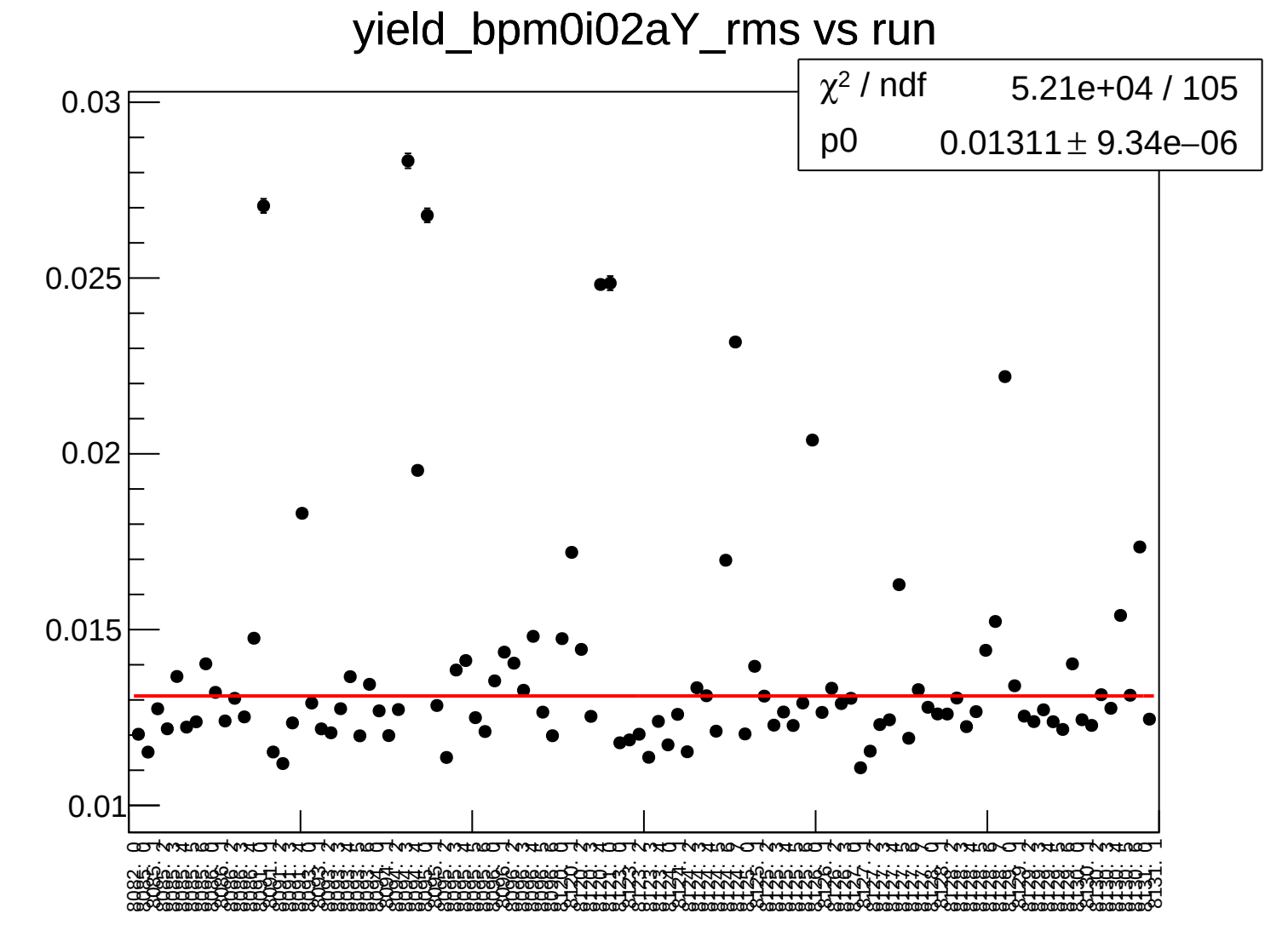

yield_bpm0i02aX_mean vs run
χ² / ndf 4.984e+06 / 105
p0 1.026 ± 1.328e−05
1.1
1.08
1.06
1.04
1.02
1
0.98
0.96
pull
Entries 106
Mean −1.281e+04
Std Dev 0
400
200
0
−200
−400

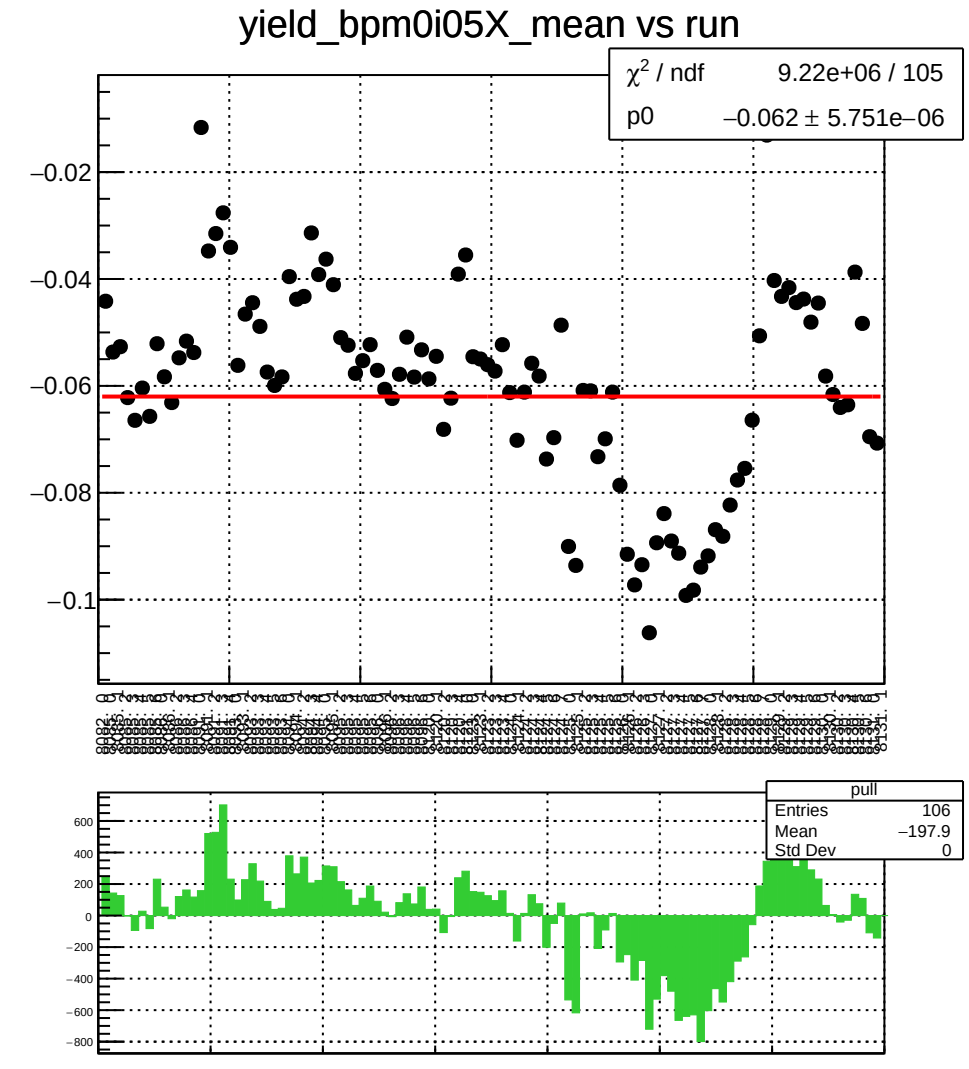

pull1D
Entries 106
Mean −5.602
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

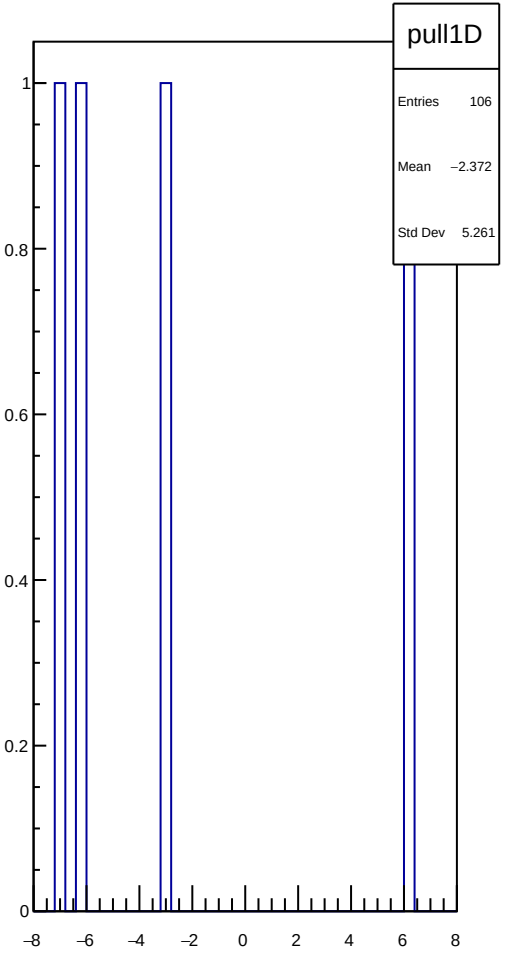

yield_bpm0i02aX_rms vs run
χ² / ndf 6.74e+04 / 105
p0 0.01313 ± 9.388e–06
0.035
0.03
0.025
0.02
0.015
0.01

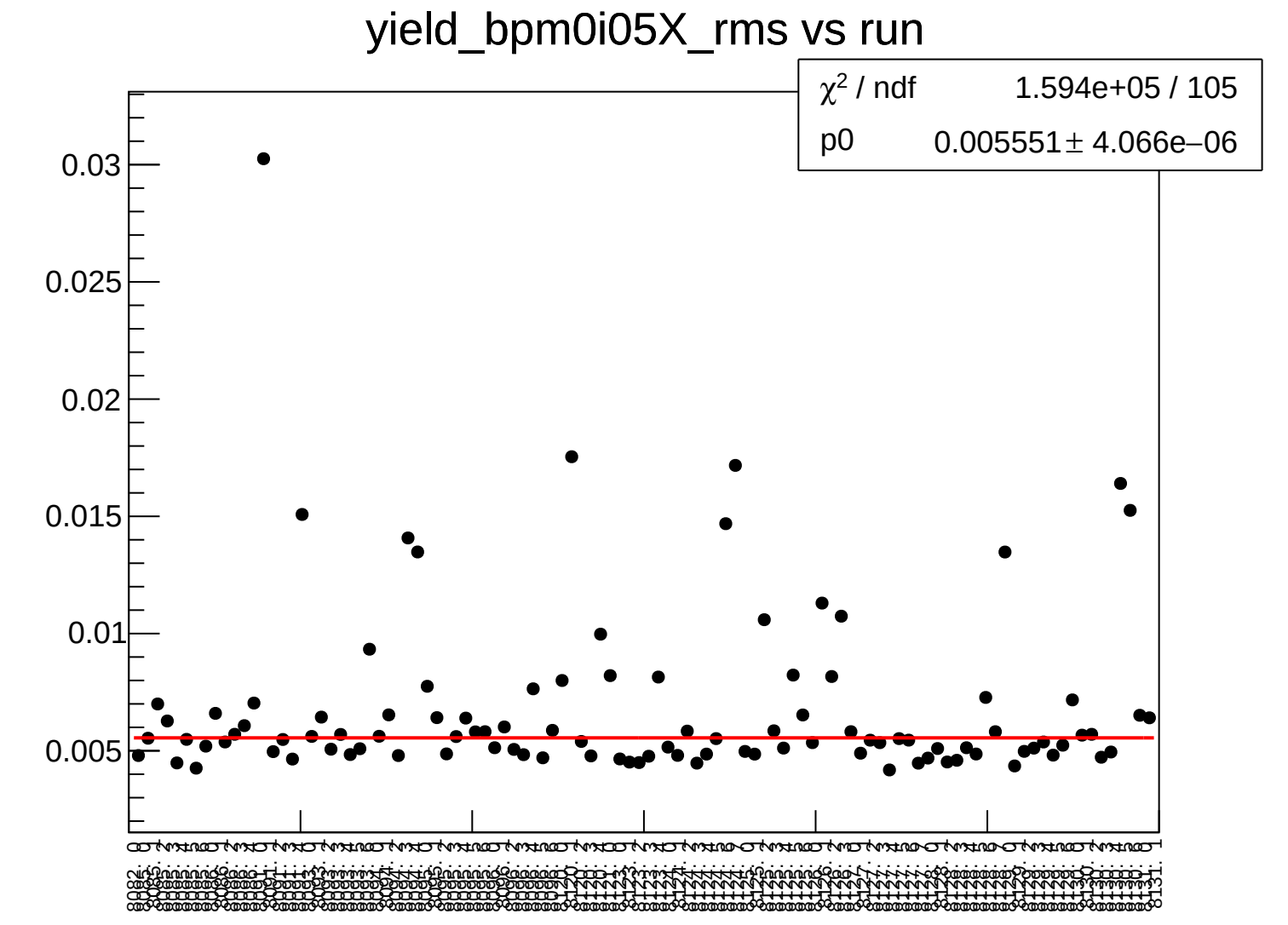

yield_bpm0i02aY_mean vs run
χ² / ndf 5.073e+06 / 105
p0 −0.7931 ± 1.321e−05
−0.74
−0.76
−0.78
−0.8
−0.82
−0.84
−0.86
−0.88
pull
Entries 106
Mean −972.7
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400

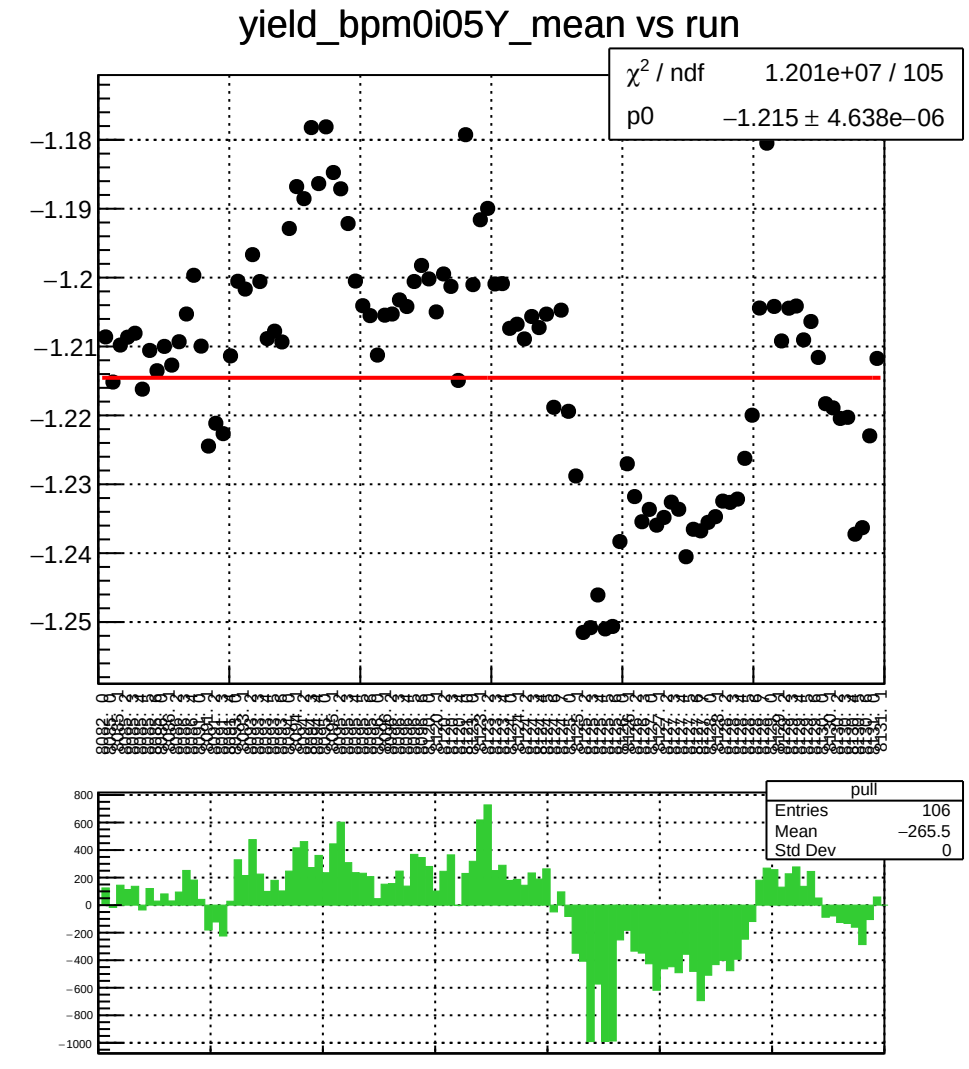

pull1D
Entries 106
Mean 0.7686
Std Dev 4.777
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

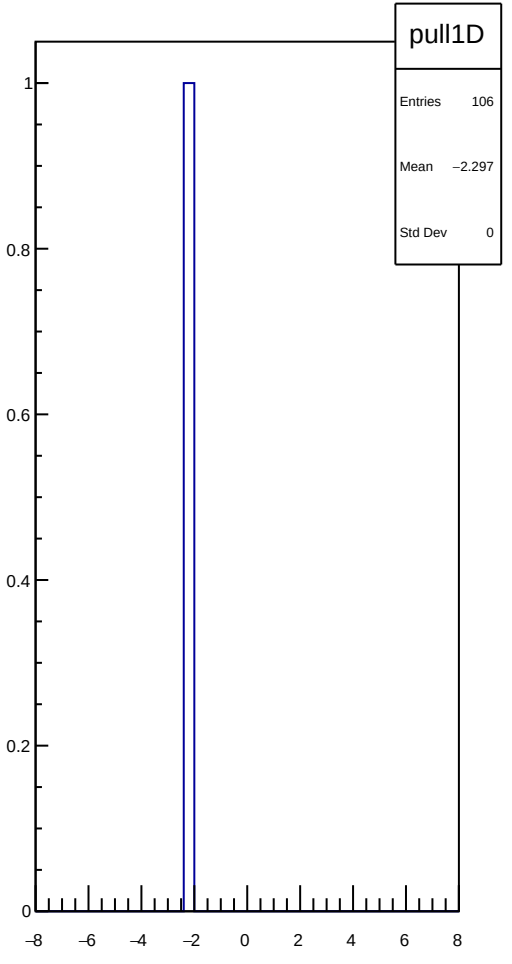

yield_bpm0i02aY_rms vs run
χ² / ndf 5.21e+04 / 105
p0 0.01311 ± 9.34e–06
0.03
0.025
0.02
0.015
0.01

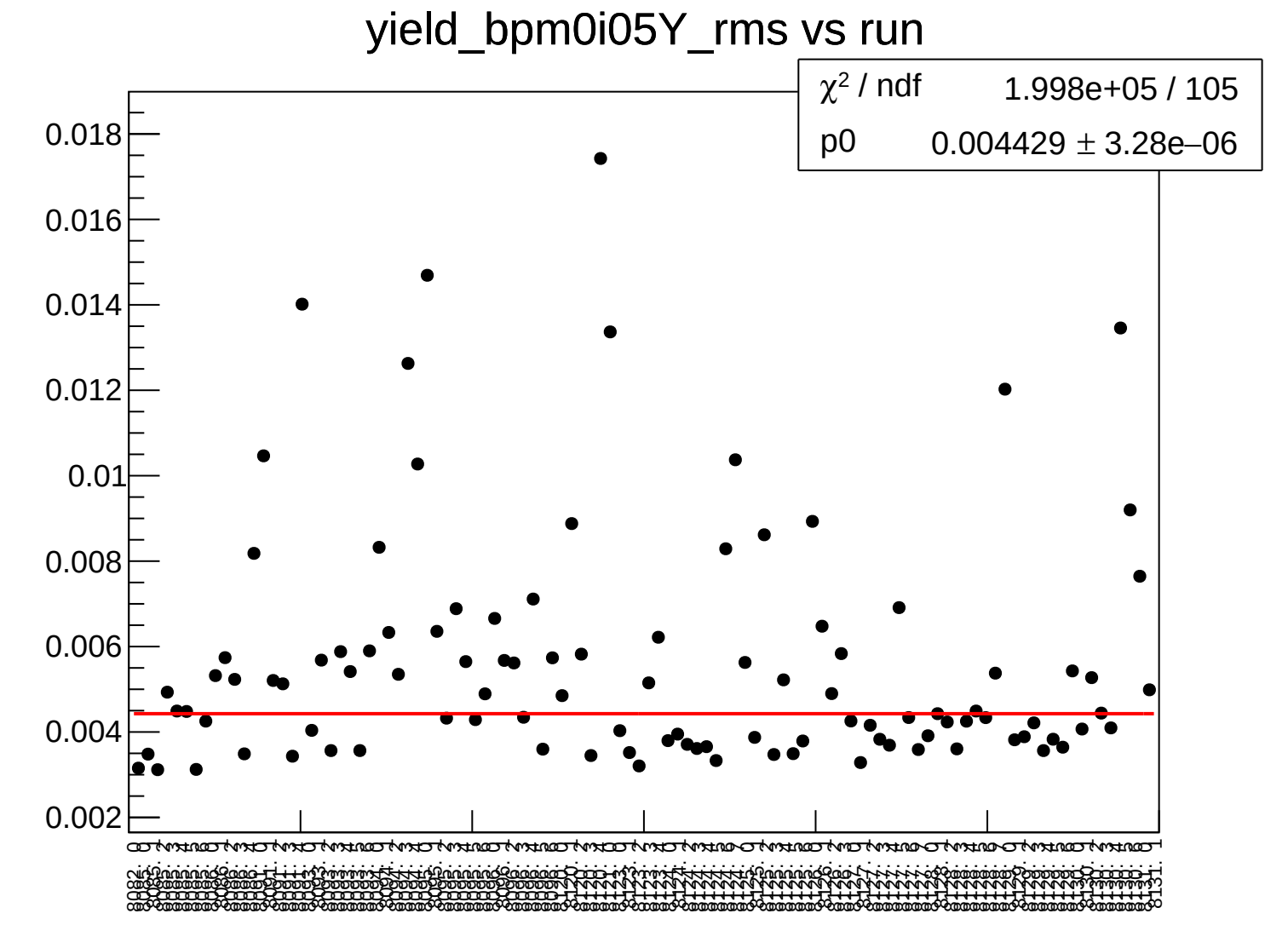

yield_bpm0i05X_mean vs run
χ² / ndf 9.22e+06 / 105
p0 −0.062 ± 5.751e−06
−0.02
−0.04
−0.06
−0.08
−0.1
pull
Entries 106
Mean −197.9
Std Dev 0
600
400
200
0
−200
−400
−600
−800

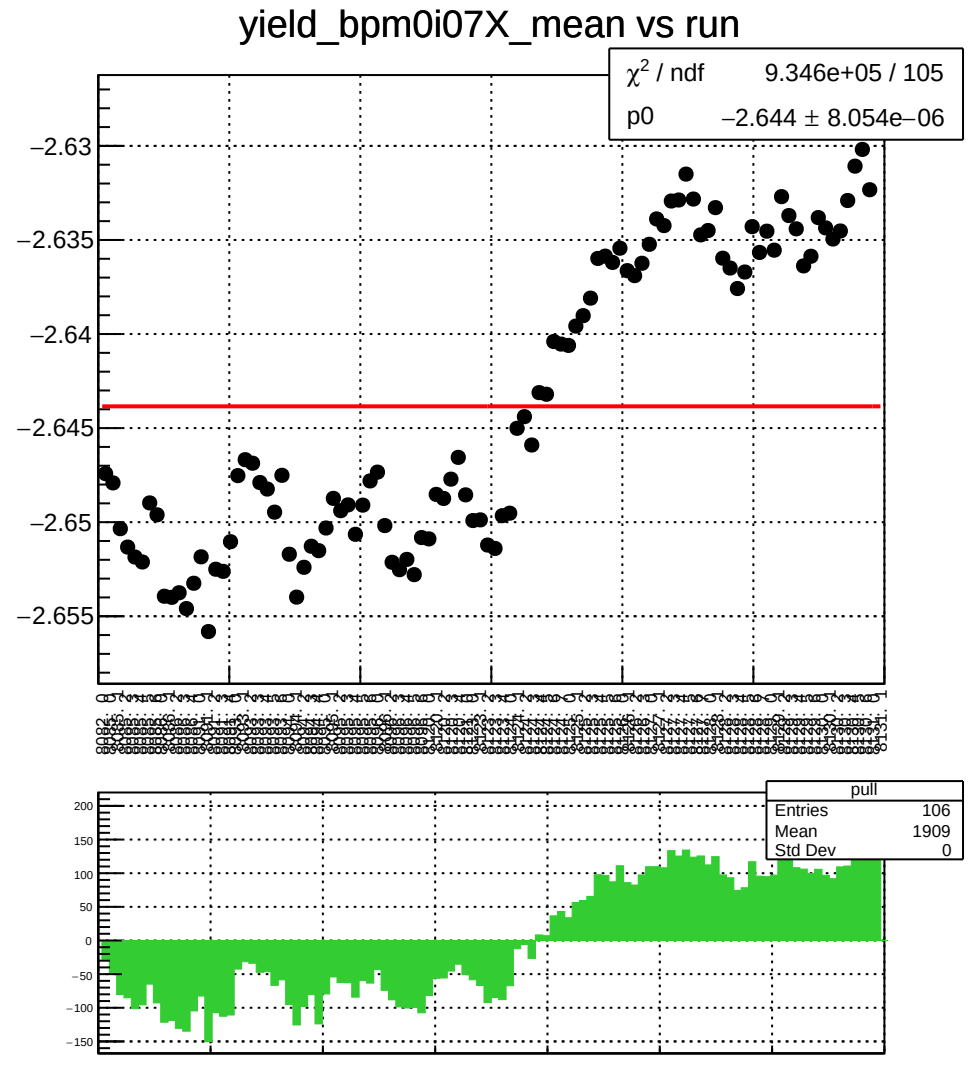

pull1D
Entries 106
Mean −2.372
Std Dev 5.261
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

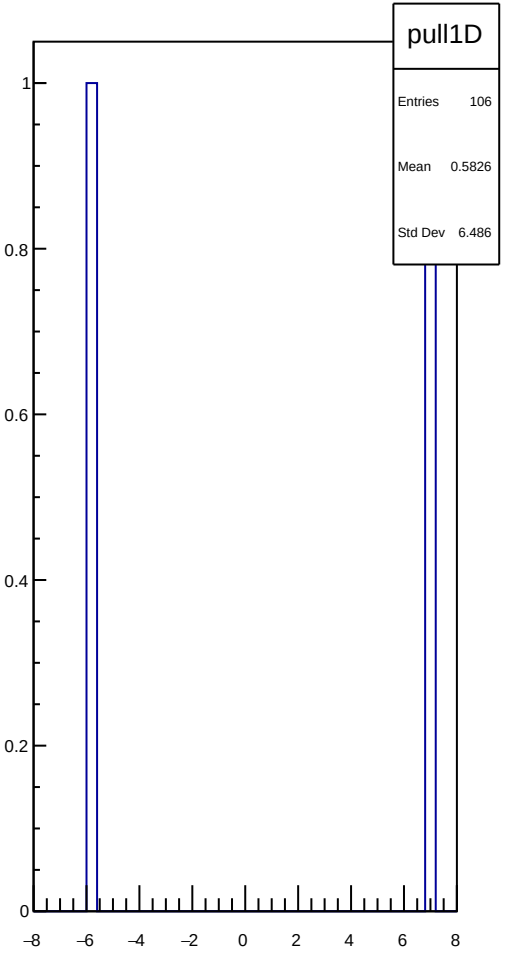

yield_bpm0i05X_rms vs run
$\chi^2$ / ndf 1.594e+05 / 105
p0 0.005551 ± 4.066e−06
0.03
0.025
0.02
0.015
0.01
0.005

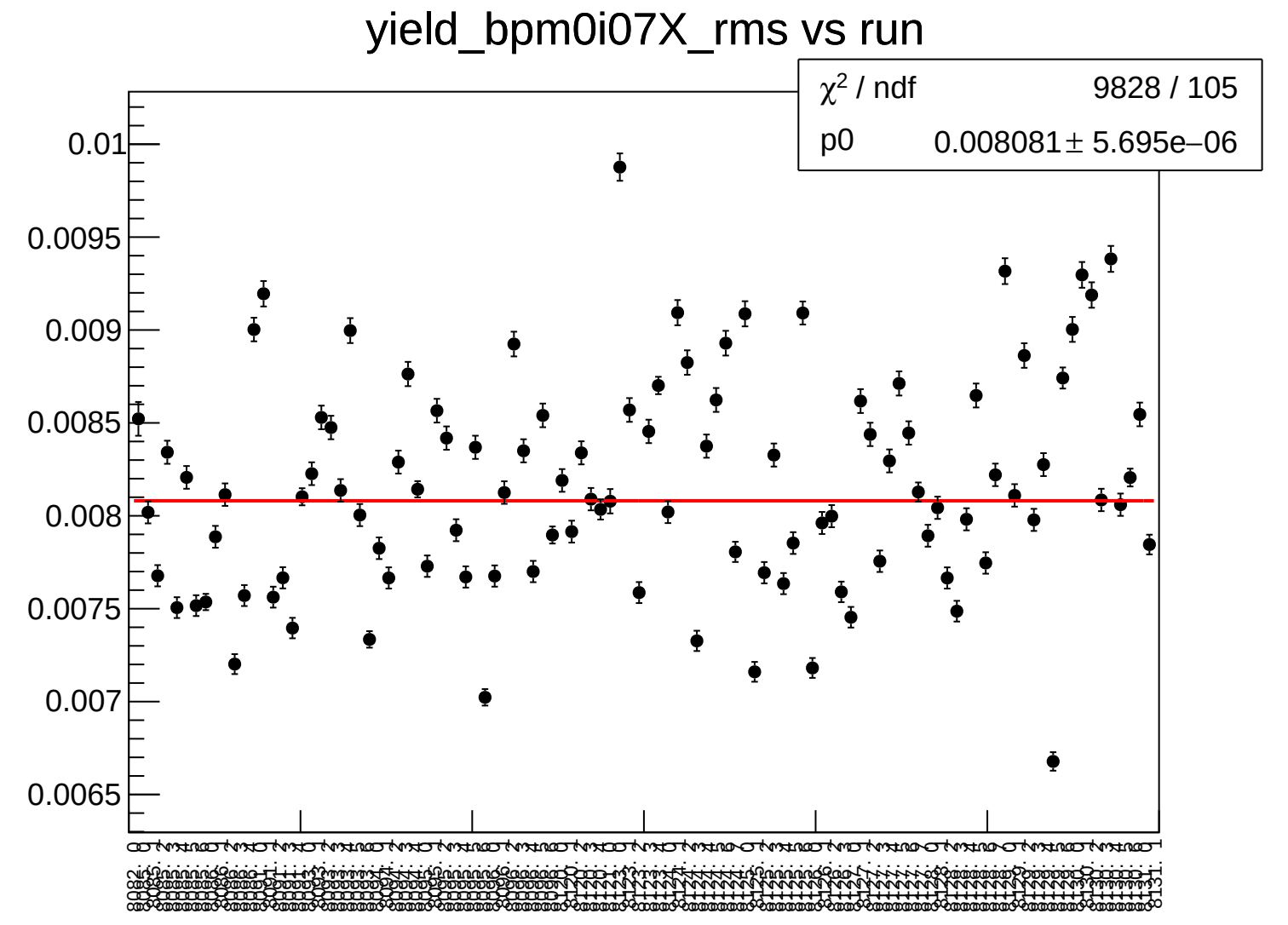

yield_bpm0i05Y_mean vs run
χ² / ndf 1.201e+07 / 105
p0 −1.215 ± 4.638e−06
−1.18
−1.19
−1.2
−1.21
−1.22
−1.23
−1.24
−1.25
pull
Entries 106
Mean −265.5
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800
−1000

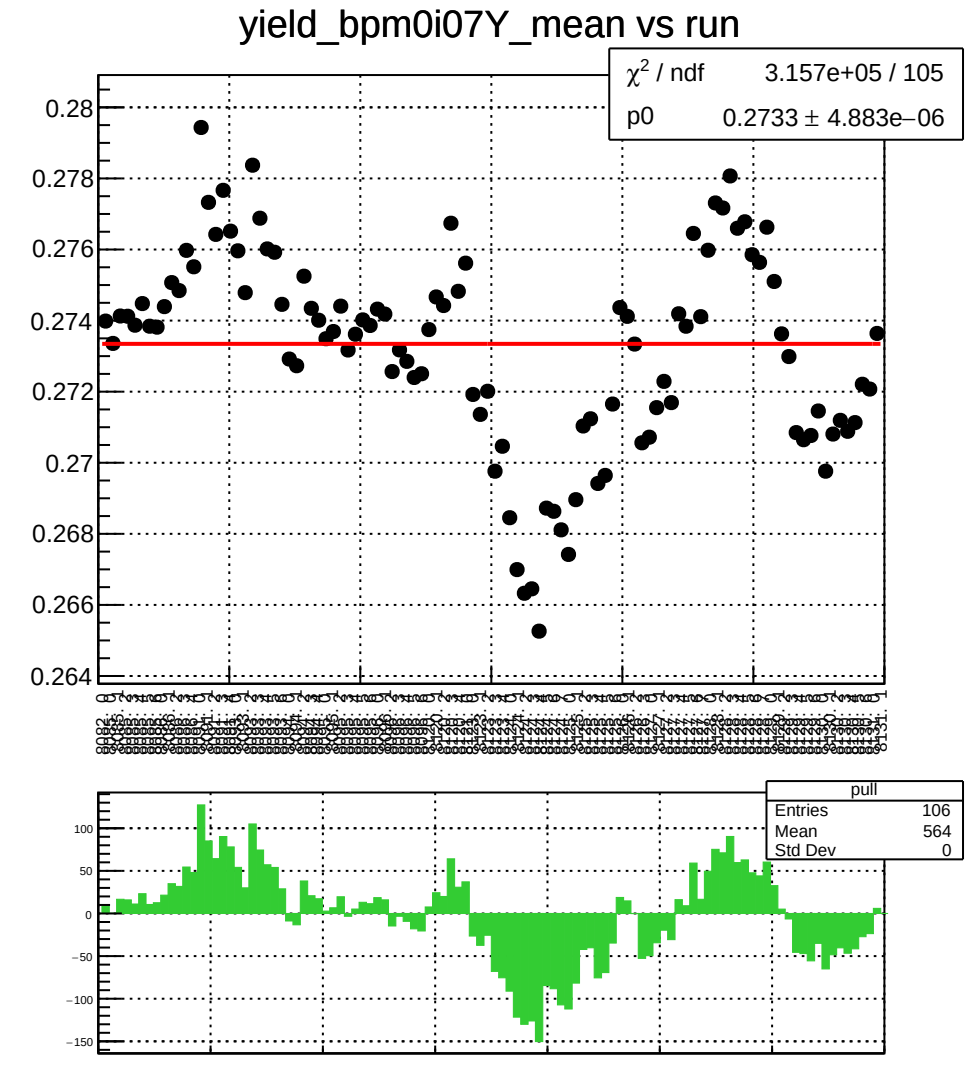

pull1D
Entries 106
Mean −2.297
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

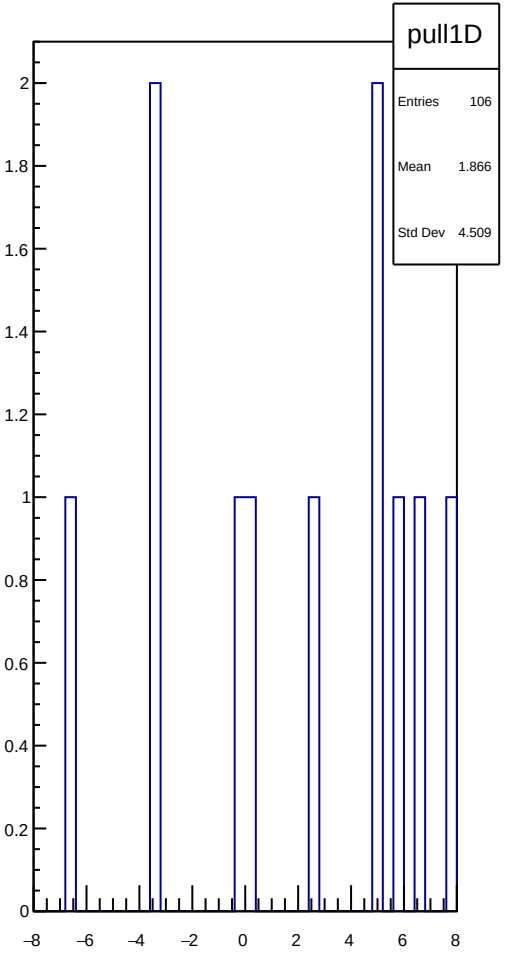

yield_bpm0i05Y_rms vs run
χ² / ndf 1.998e+05 / 105
p0 0.004429 ± 3.28e–06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

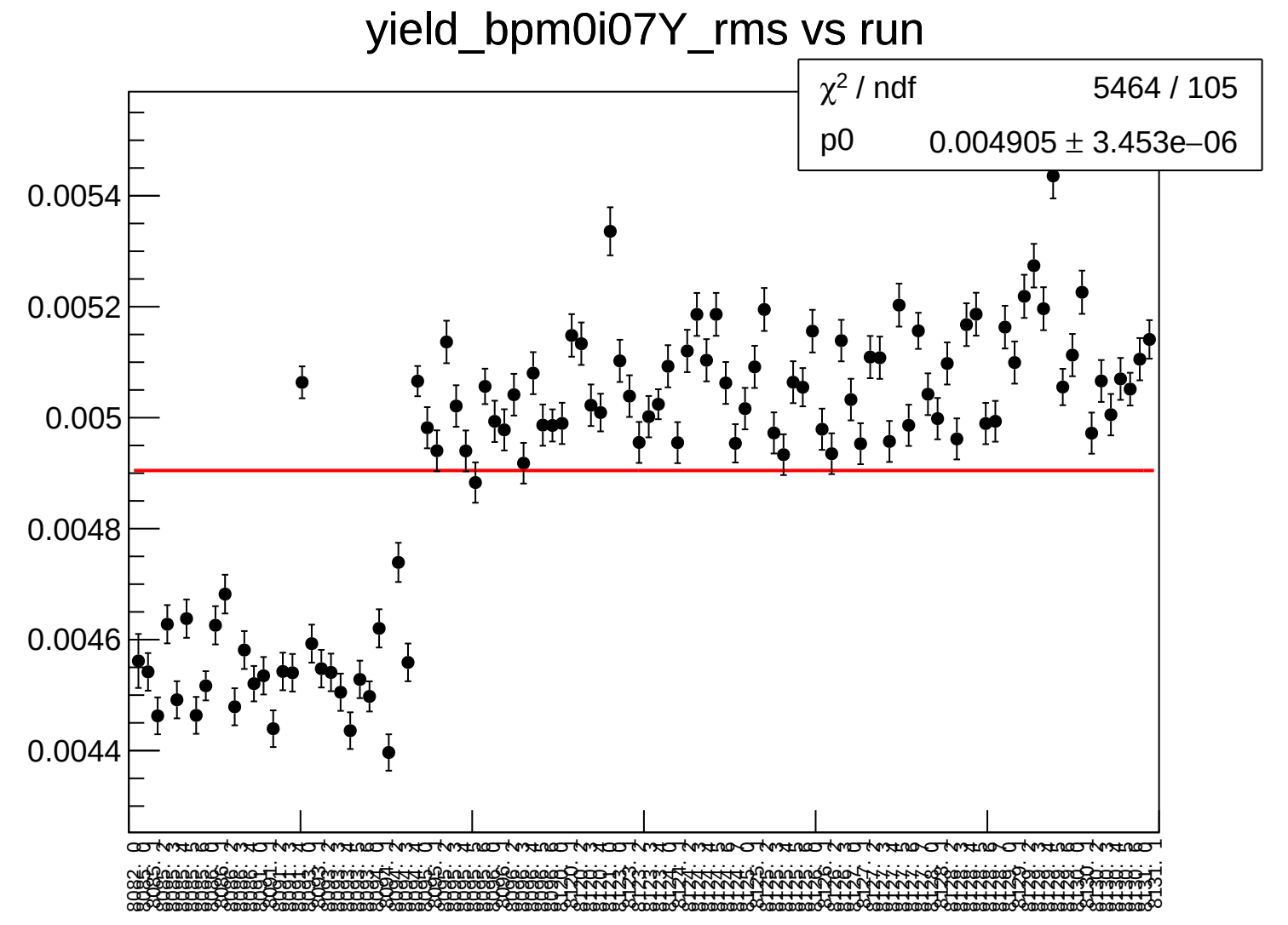

yield_bpm0i07X_mean vs run
χ² / ndf 9.346e+05 / 105
p0 −2.644 ± 8.054e−06
−2.63
−2.635
−2.64
−2.645
−2.65
−2.655
pull
Entries 106
Mean 1909
Std Dev 0
200
150
100
50
0
−50
−100
−150

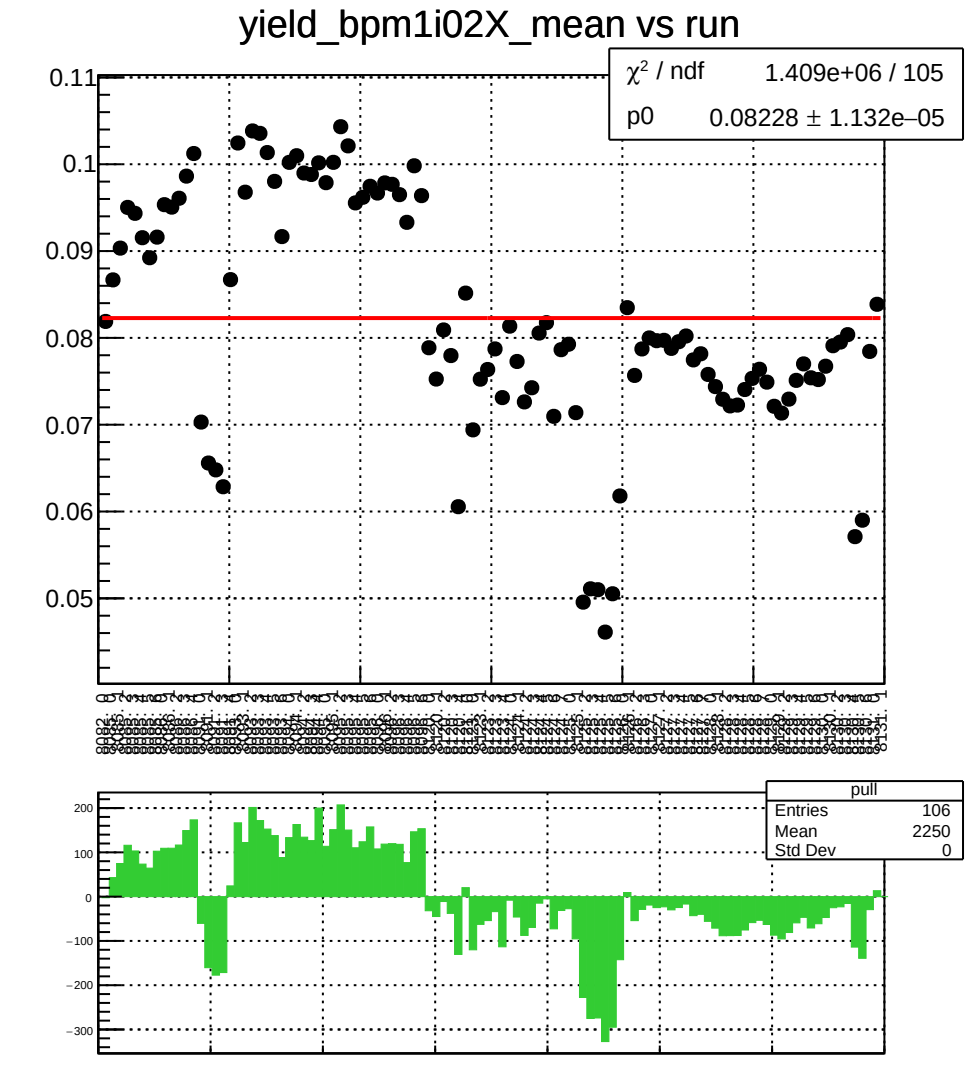

pull1D
Entries 106
Mean 0.5826
Std Dev 6.486
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

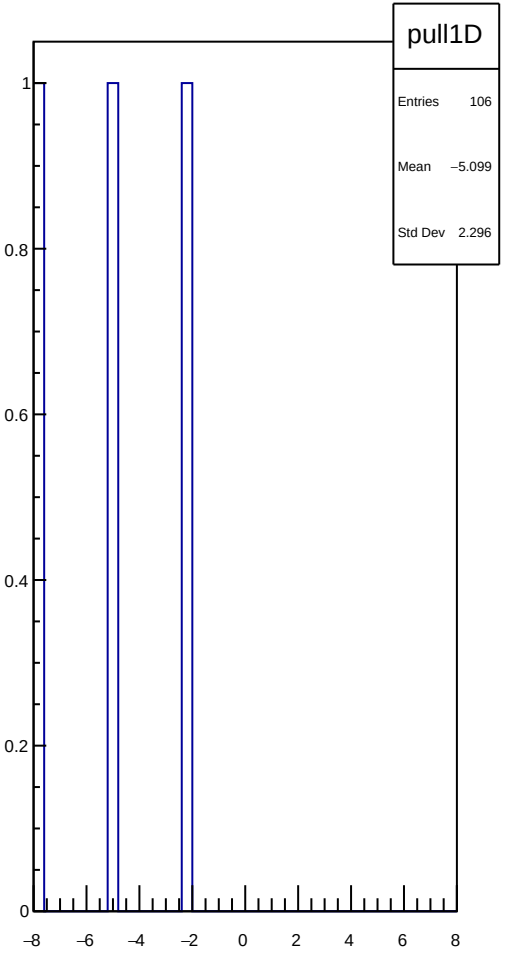

yield_bpm0i07X_rms vs run
χ² / ndf 9828 / 105
p0 0.008081 ± 5.695e−06
0.01
0.0095
0.009
0.0085
0.008
0.0075
0.007
0.0065

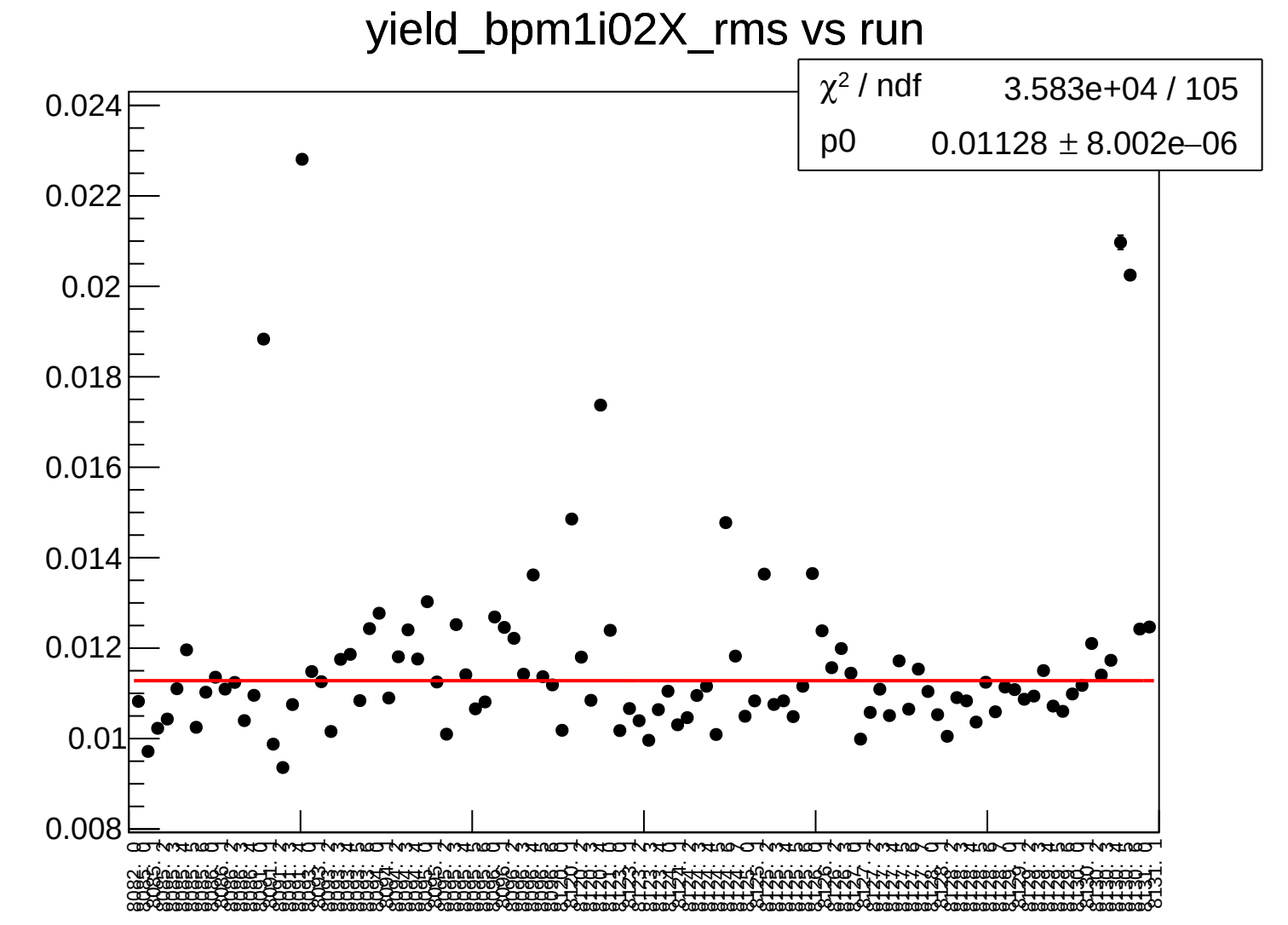

yield_bpm0i07Y_mean vs run
χ² / ndf 3.157e+05 / 105
p0 0.2733 ± 4.883e−06
0.28
0.278
0.276
0.274
0.272
0.27
0.268
0.266
0.264
pull
Entries 106
Mean 564
Std Dev 0
100
50
0
−50
−100
−150

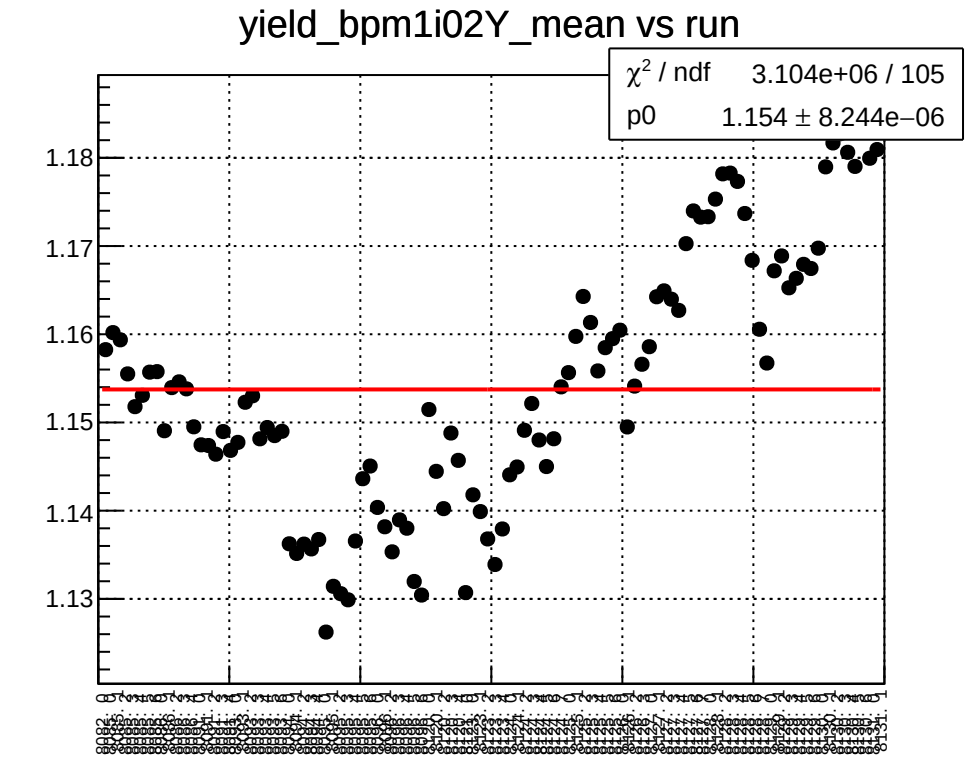

pull1D
Entries 106
Mean 1.866
Std Dev 4.509
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

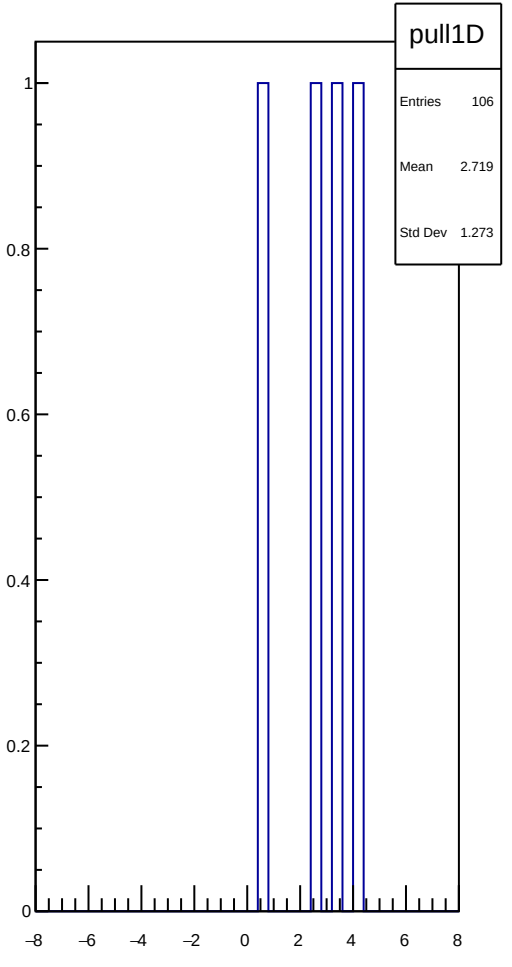

yield_bpm0i07Y_rms vs run
χ² / ndf 5464 / 105
p0 0.004905 ± 3.453e−06
0.0054
0.0052
0.005
0.0048
0.0046
0.0044

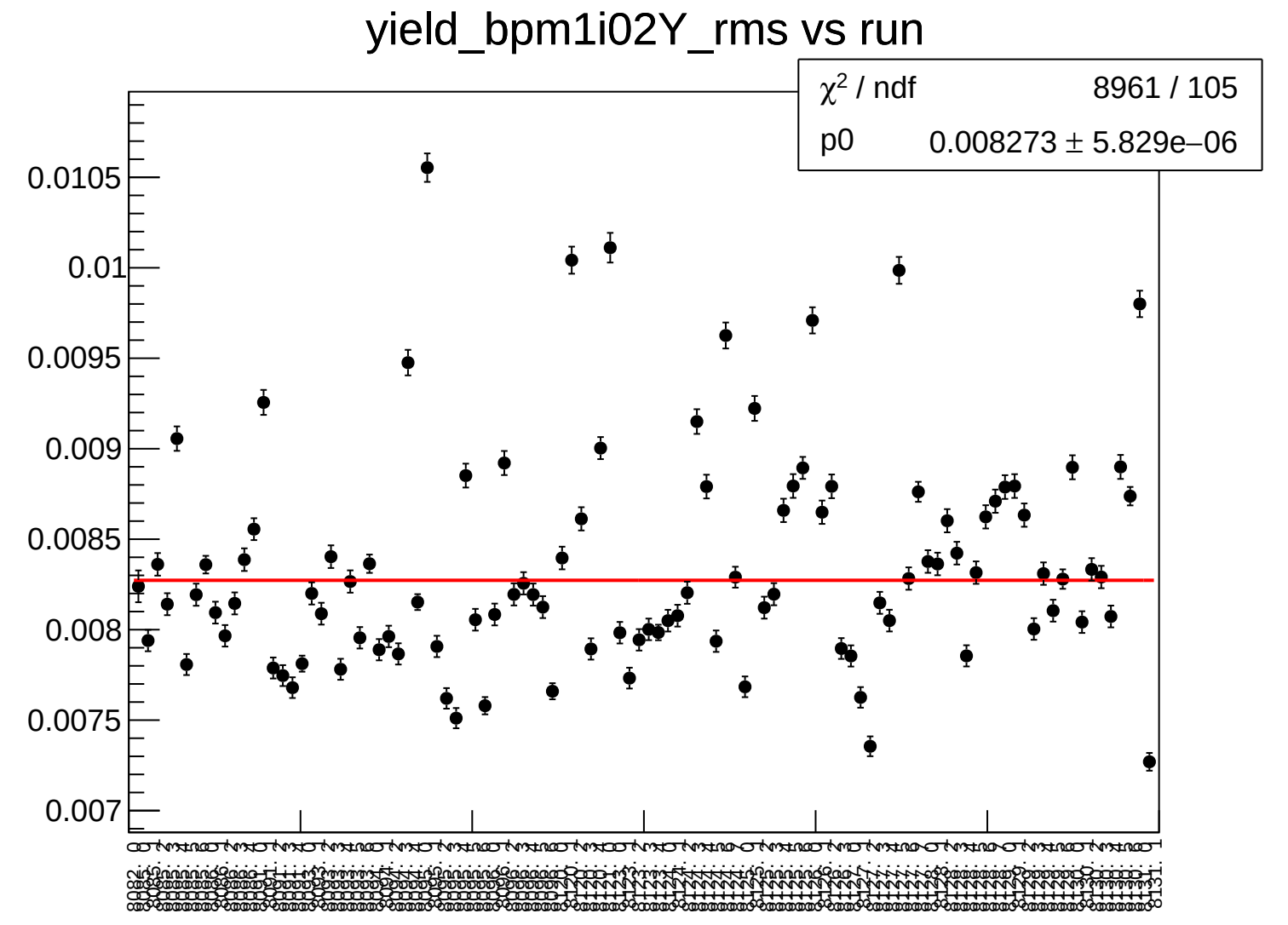

yield_bpm1i02X_mean vs run
χ² / ndf 1.409e+06 / 105
p0 0.08228 ± 1.132e−05
0.11
0.1
0.09
0.08
0.07
0.06
0.05
pull
Entries 106
Mean 2250
Std Dev 0
200
100
0
−100
−200
−300

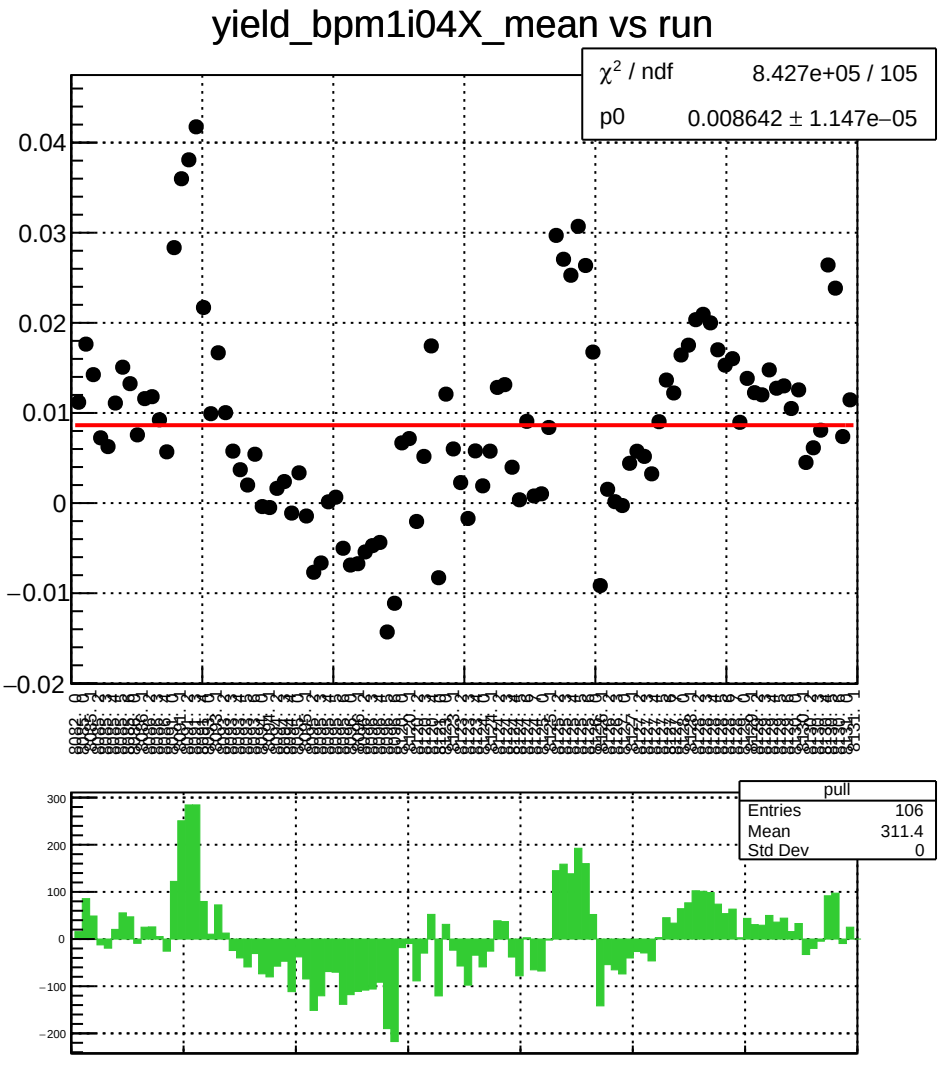

pull1D
Entries 106
Mean −5.099
Std Dev 2.296
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

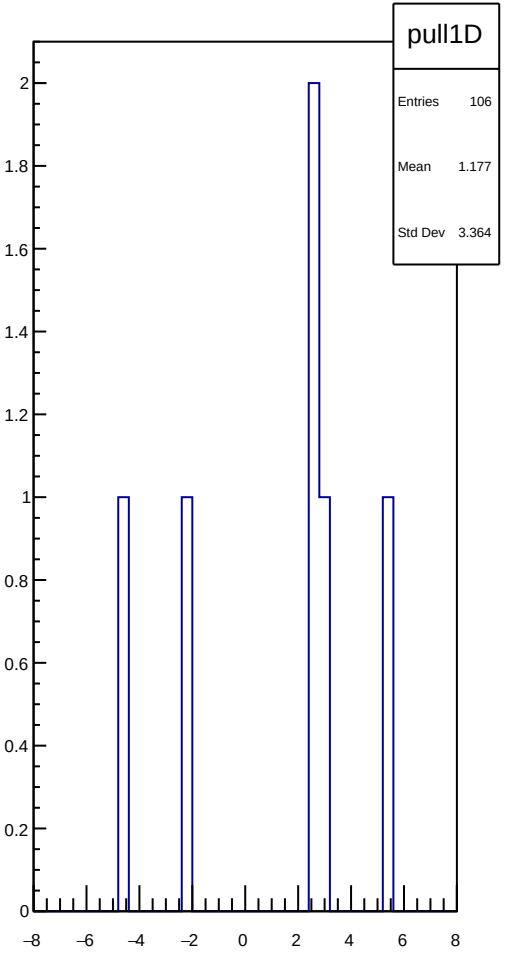

yield_bpm1i02X_rms vs run
χ² / ndf 3.583e+04 / 105
p0 0.01128 ± 8.002e–06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008

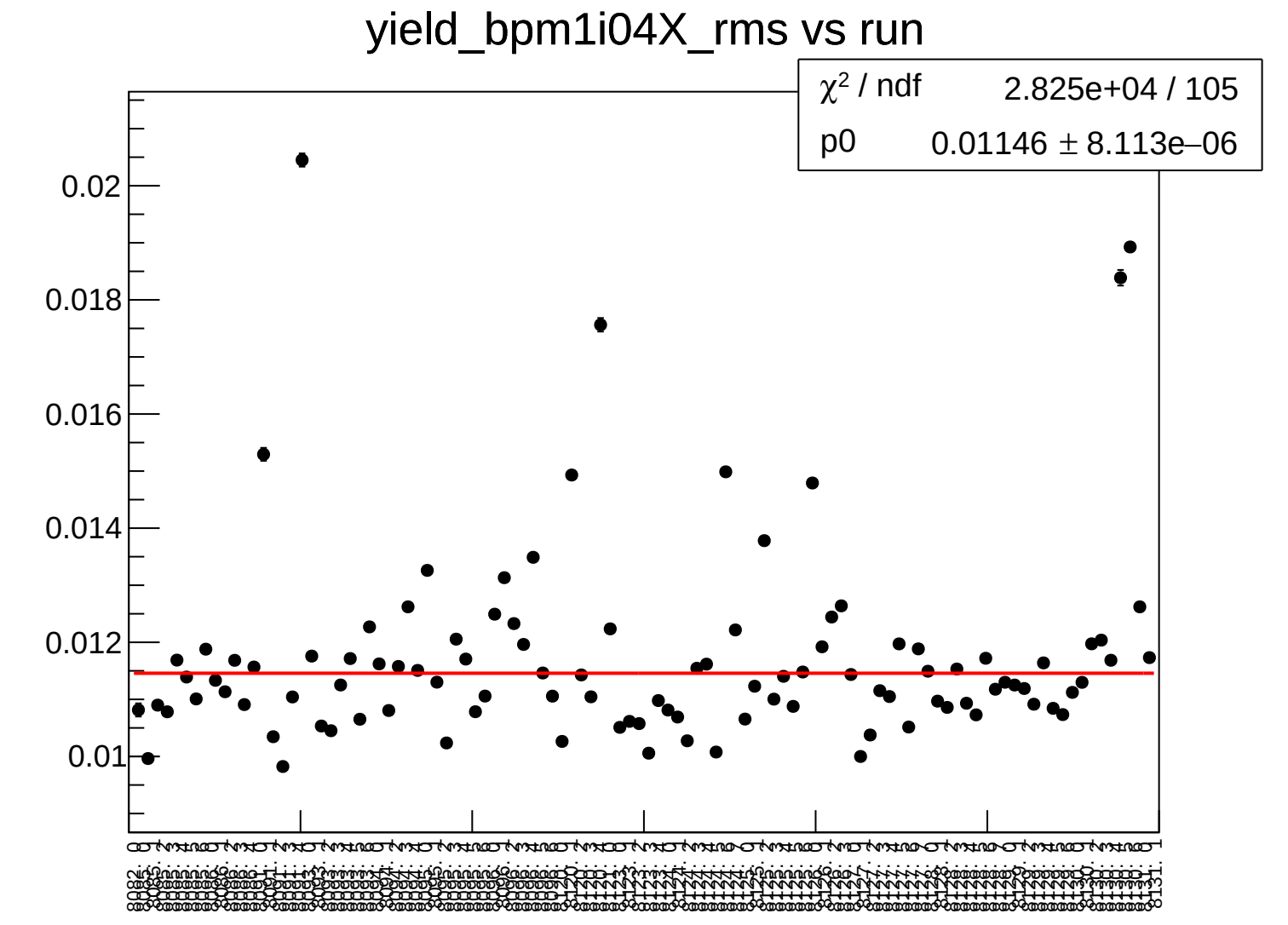

yield_bpm1i02Y_mean vs run
χ² / ndf 3.104e+06 / 105
p0 1.154 ± 8.244e−06
1.18
1.17
1.16
1.15
1.14
1.13
pull
Entries 106
Mean 1281
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400

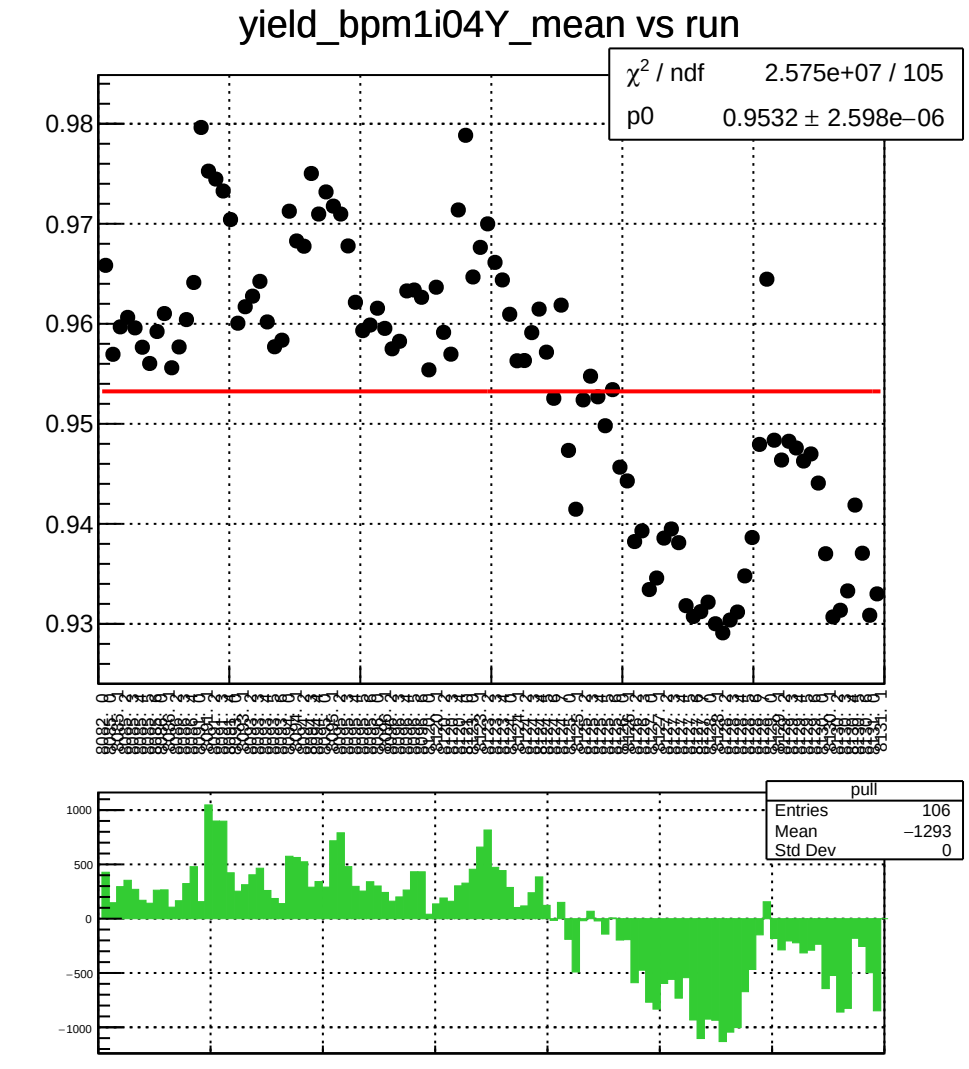

pull1D
Entries 106
Mean 2.719
Std Dev 1.273
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

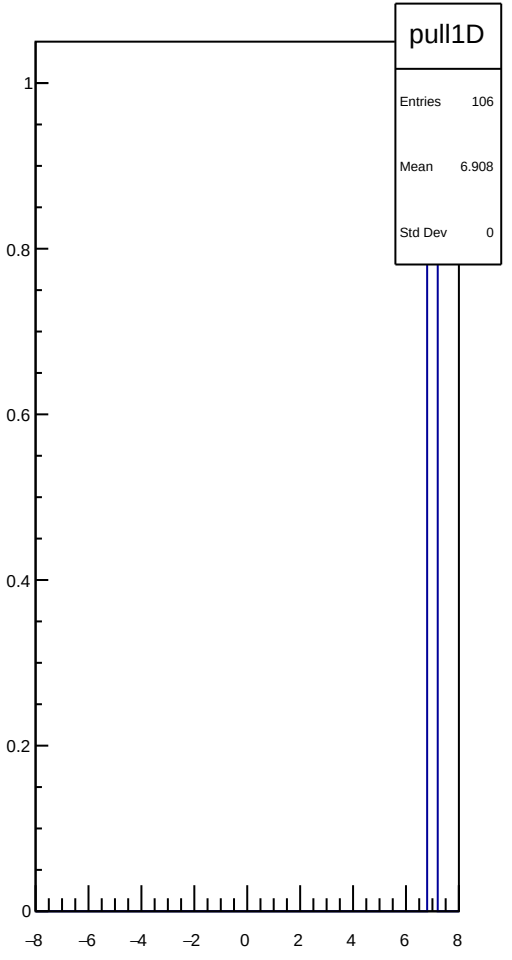

yield_bpm1i02Y_rms vs run
χ² / ndf 8961 / 105
p0 0.008273 ± 5.829e−06
0.0105
0.01
0.0095
0.009
0.0085
0.008
0.0075
0.007

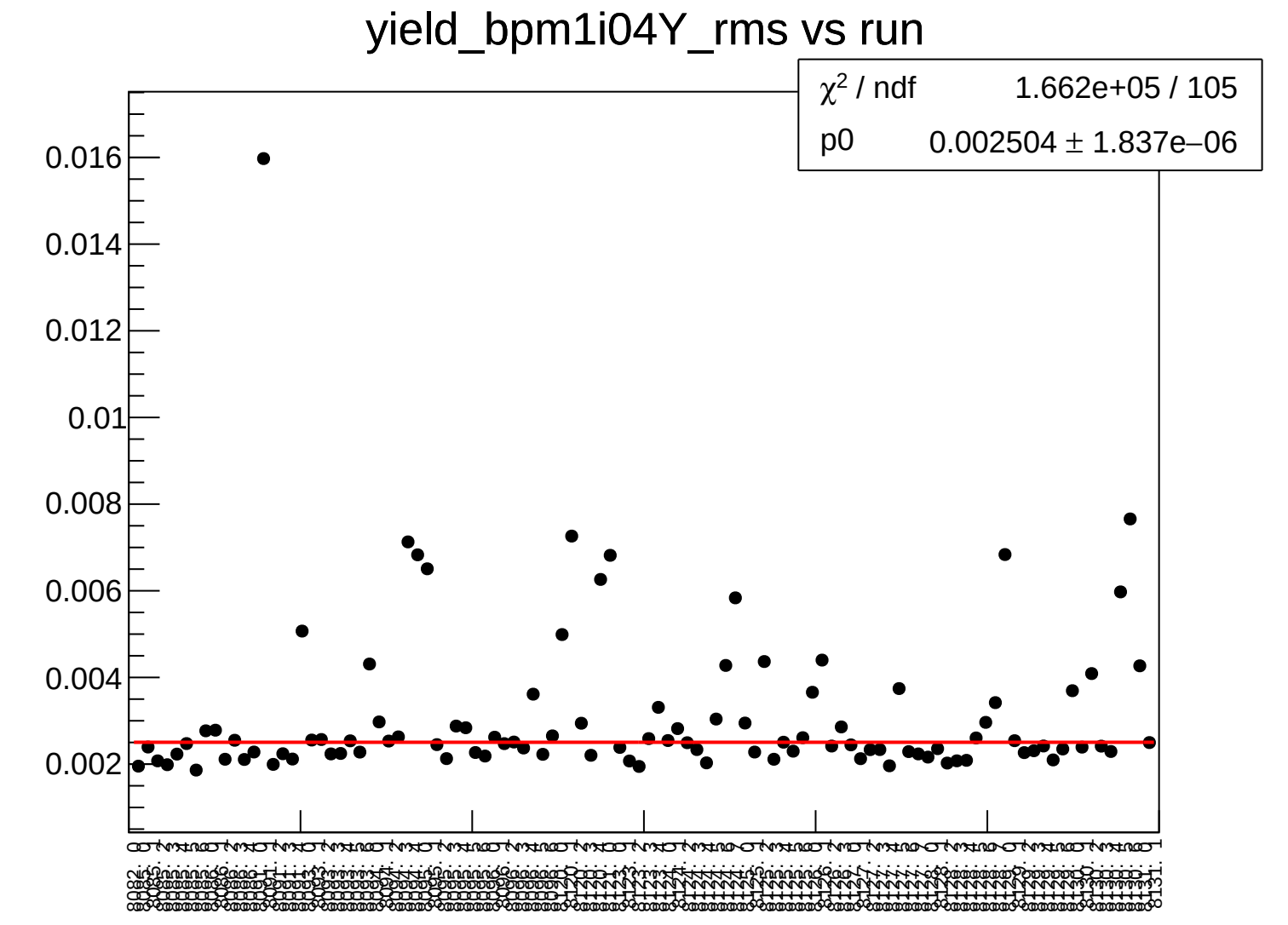

yield_bpm1i04X_mean vs run
χ² / ndf 8.427e+05 / 105
p0 0.008642 ± 1.147e−05
0.04
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 106
Mean 311.4
Std Dev 0
300
200
100
0
−100
−200

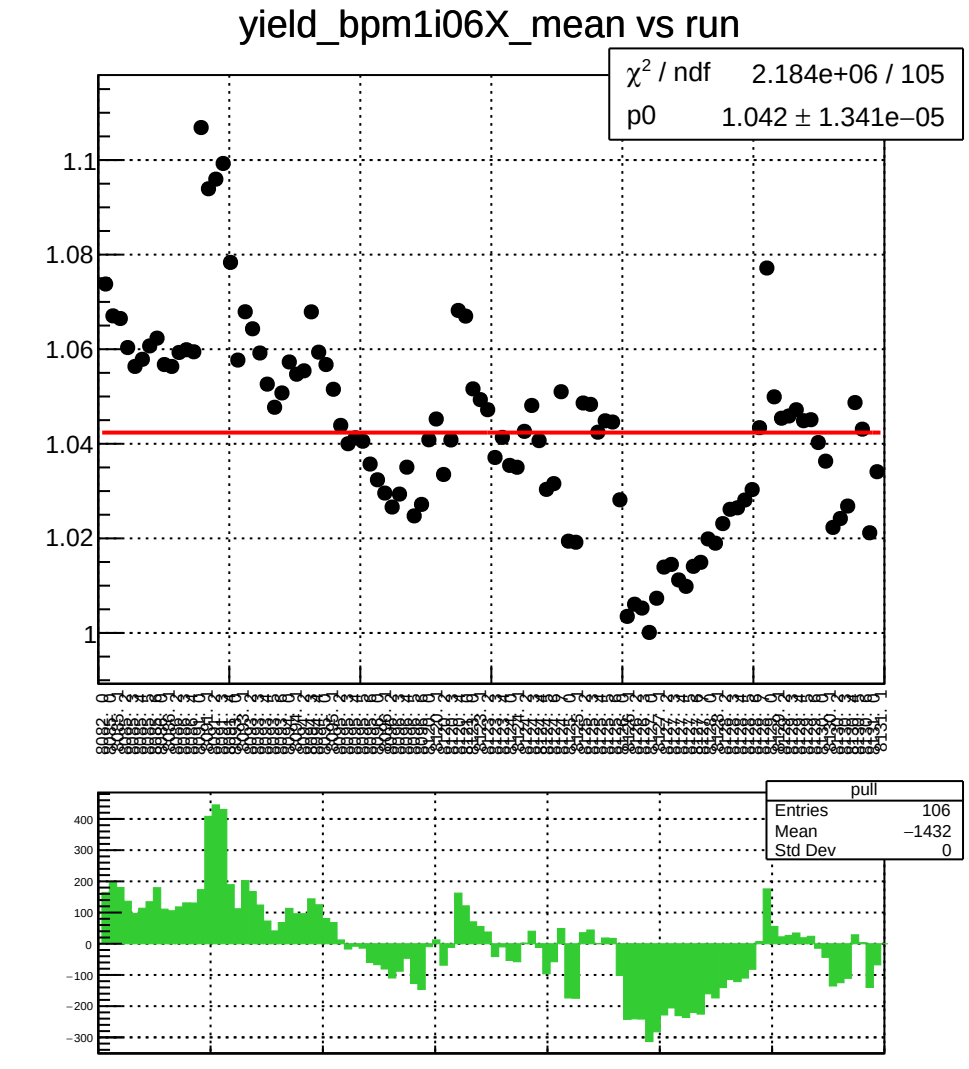

pull1D
Entries 106
Mean 1.177
Std Dev 3.364
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

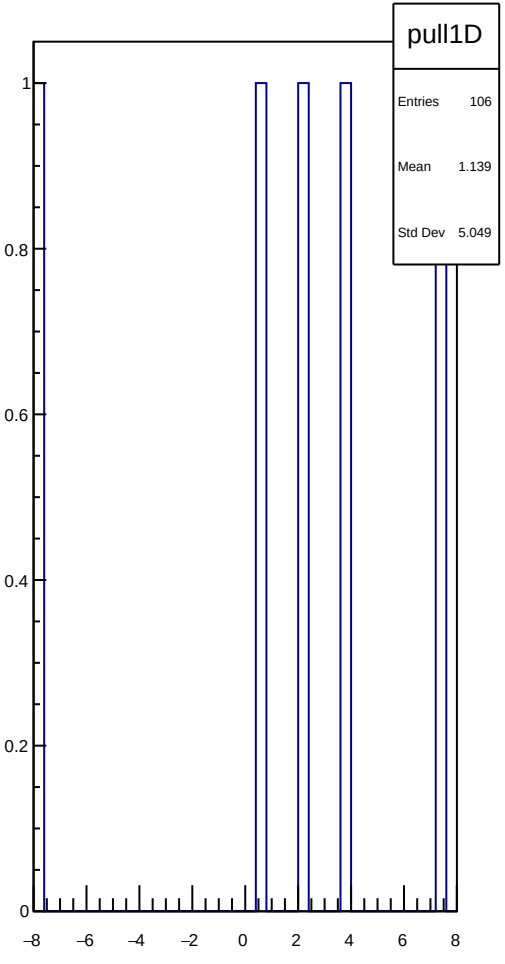

yield_bpm1i04X_rms vs run
χ² / ndf 2.825e+04 / 105
p0 0.01146 ± 8.113e–06
0.02
0.018
0.016
0.014
0.012
0.01

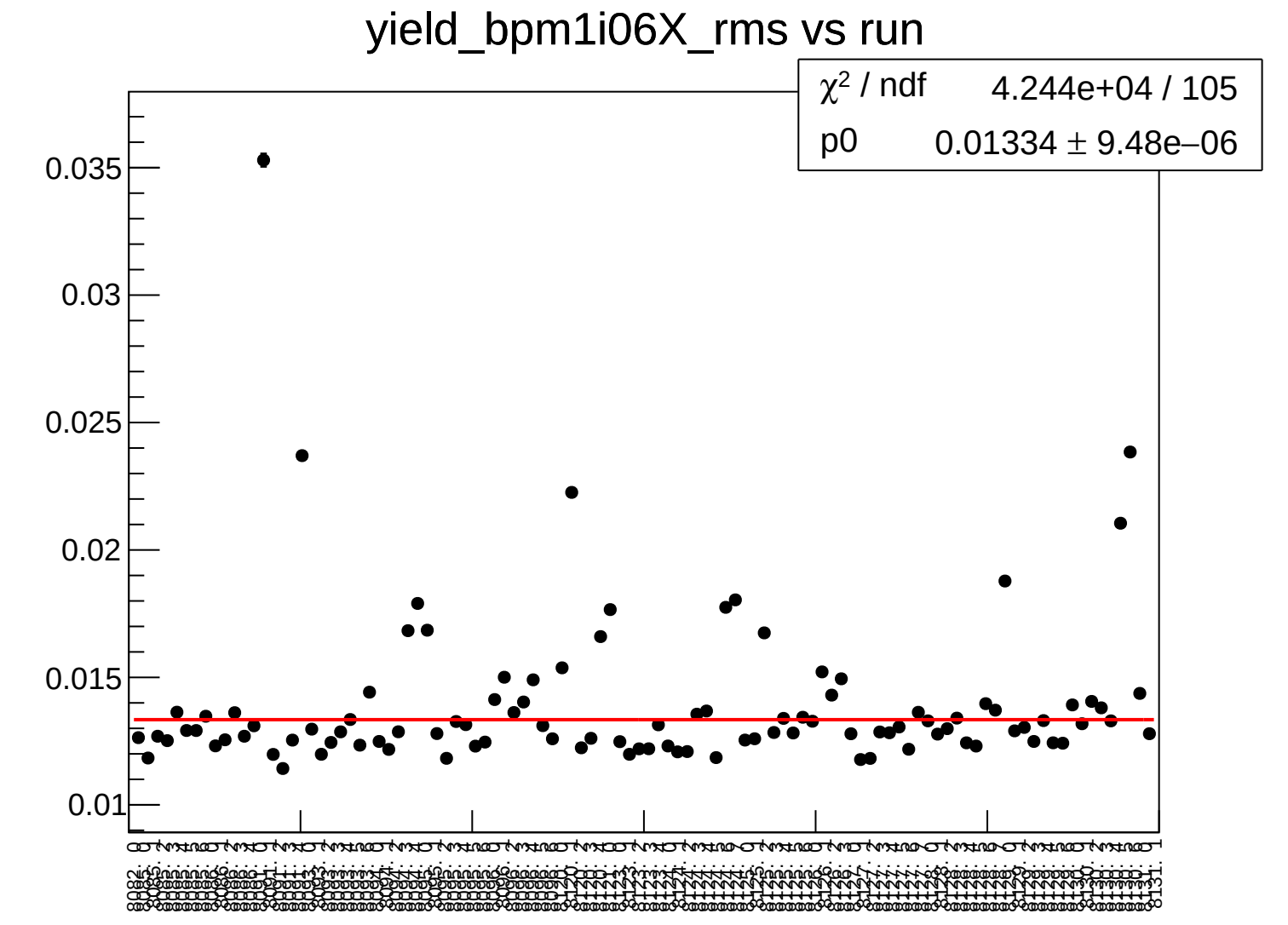

yield_bpm1i04Y_mean vs run
χ² / ndf 2.575e+07 / 105
p0 0.9532 ± 2.598e−06
0.98
0.97
0.96
0.95
0.94
0.93
pull
Entries 106
Mean −1293
Std Dev 0
1000
500
0
−500
−1000

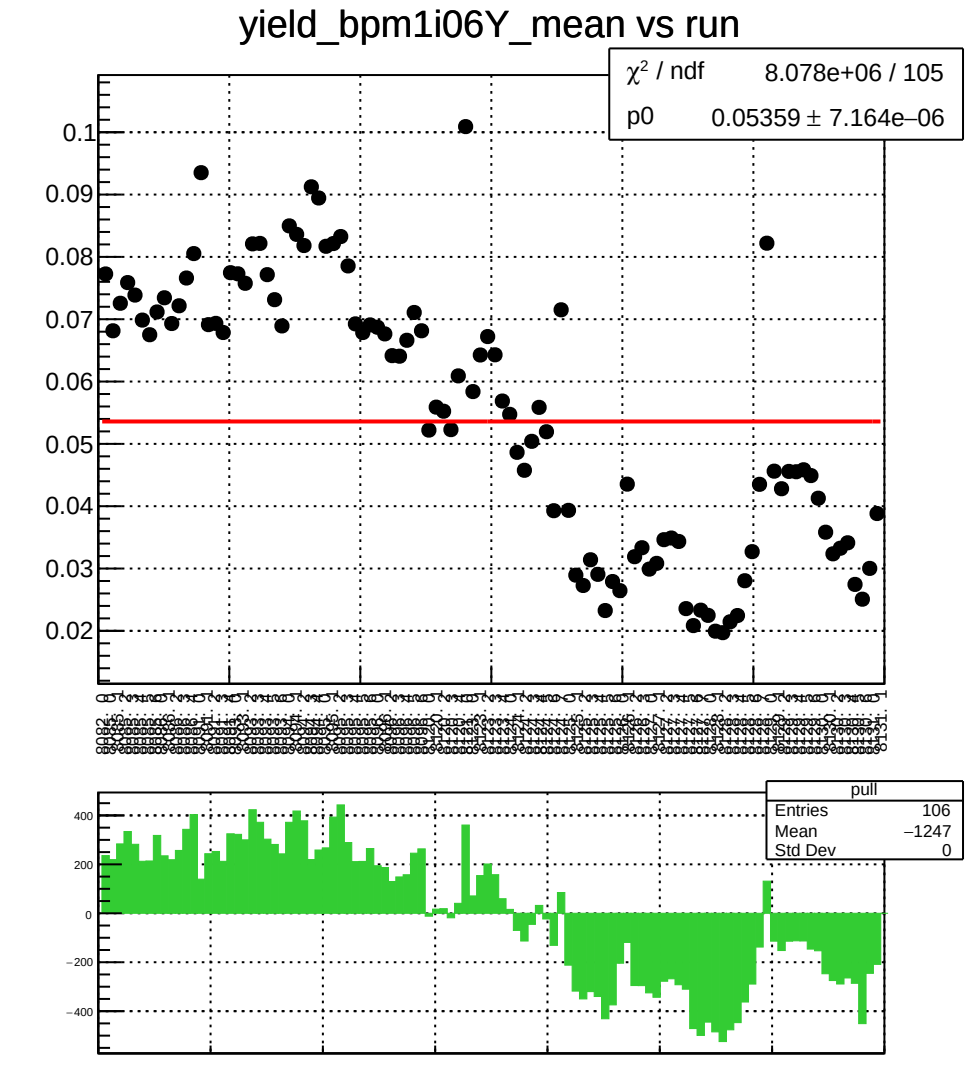

pull1D
Entries 106
Mean 6.908
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

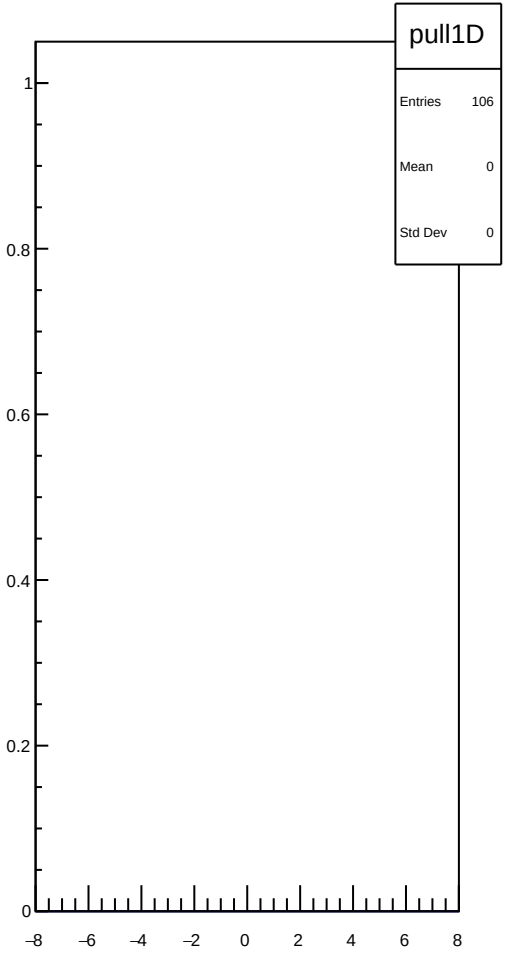

yield_bpm1i04Y_rms vs run
$\chi^2$ / ndf 1.662e+05 / 105
p0 0.002504 ± 1.837e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

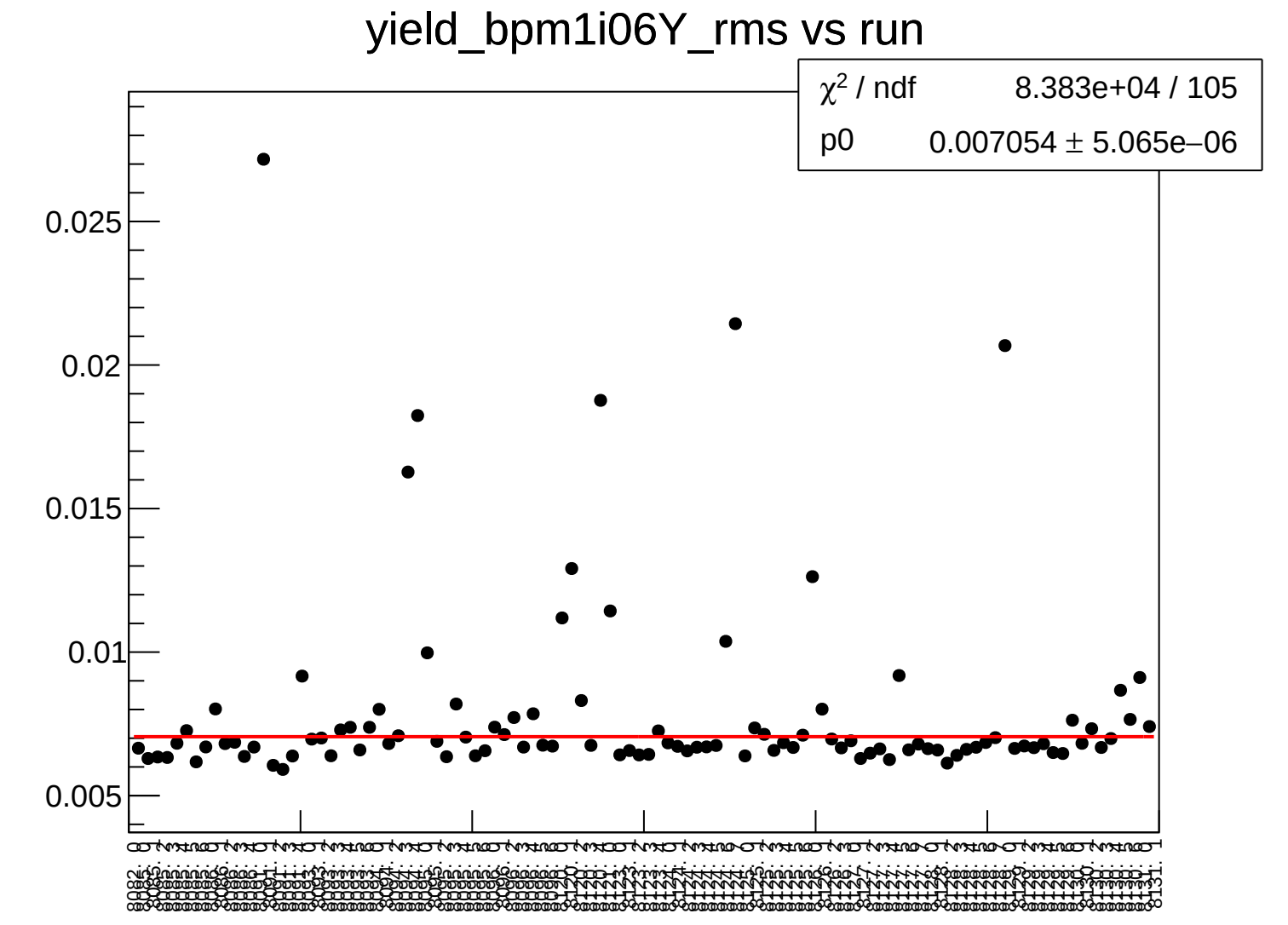

yield_bpm1i06X_mean vs run
χ² / ndf 2.184e+06 / 105
p0 1.042 ± 1.341e−05
1.1
1.08
1.06
1.04
1.02
1
pull
Entries 106
Mean −1432
Std Dev 0
400
300
200
100
0
−100
−200
−300

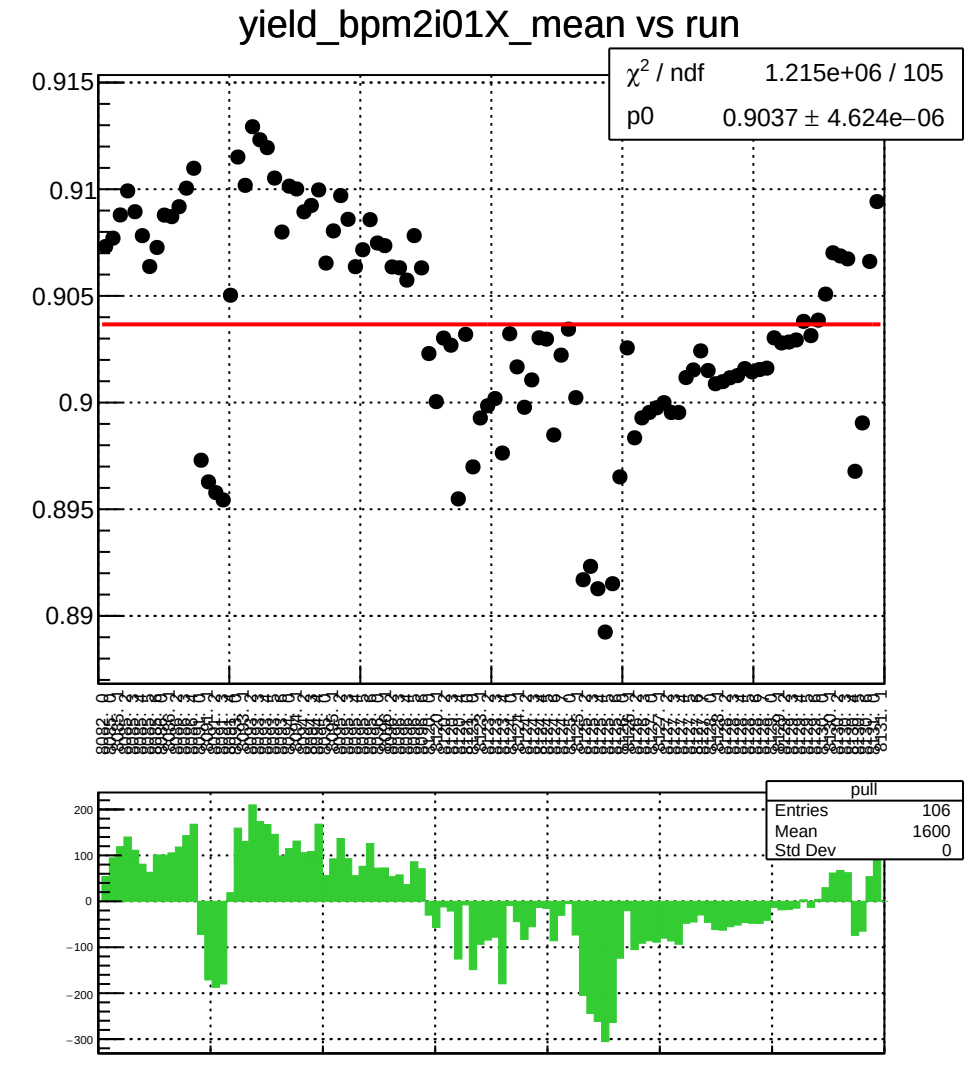

pull1D
Entries 106
Mean 1.139
Std Dev 5.049
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

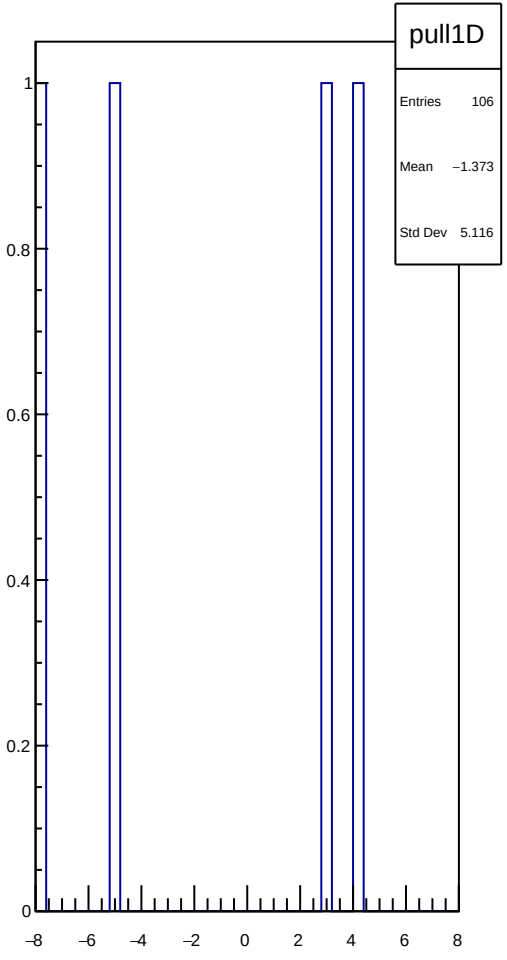

yield_bpm1i06X_rms vs run
χ² / ndf 4.244e+04 / 105
p0 0.01334 ± 9.48e−06
0.035
0.03
0.025
0.02
0.015
0.01

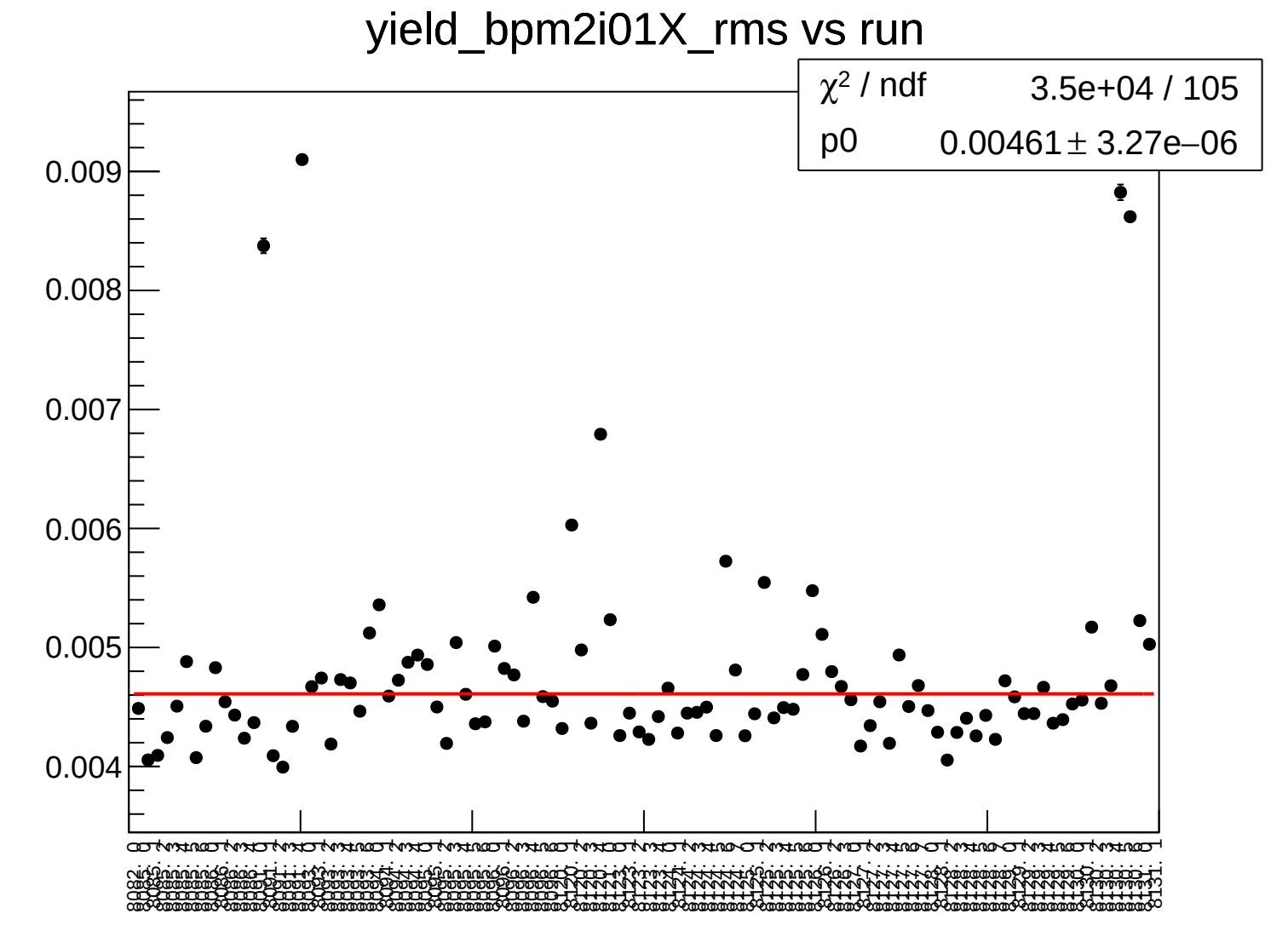

yield_bpm1i06Y_mean vs run
χ² / ndf 8.078e+06 / 105
p0 0.05359 ± 7.164e−06
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
pull
Entries 106
Mean −1247
Std Dev 0
400
200
0
−200
−400

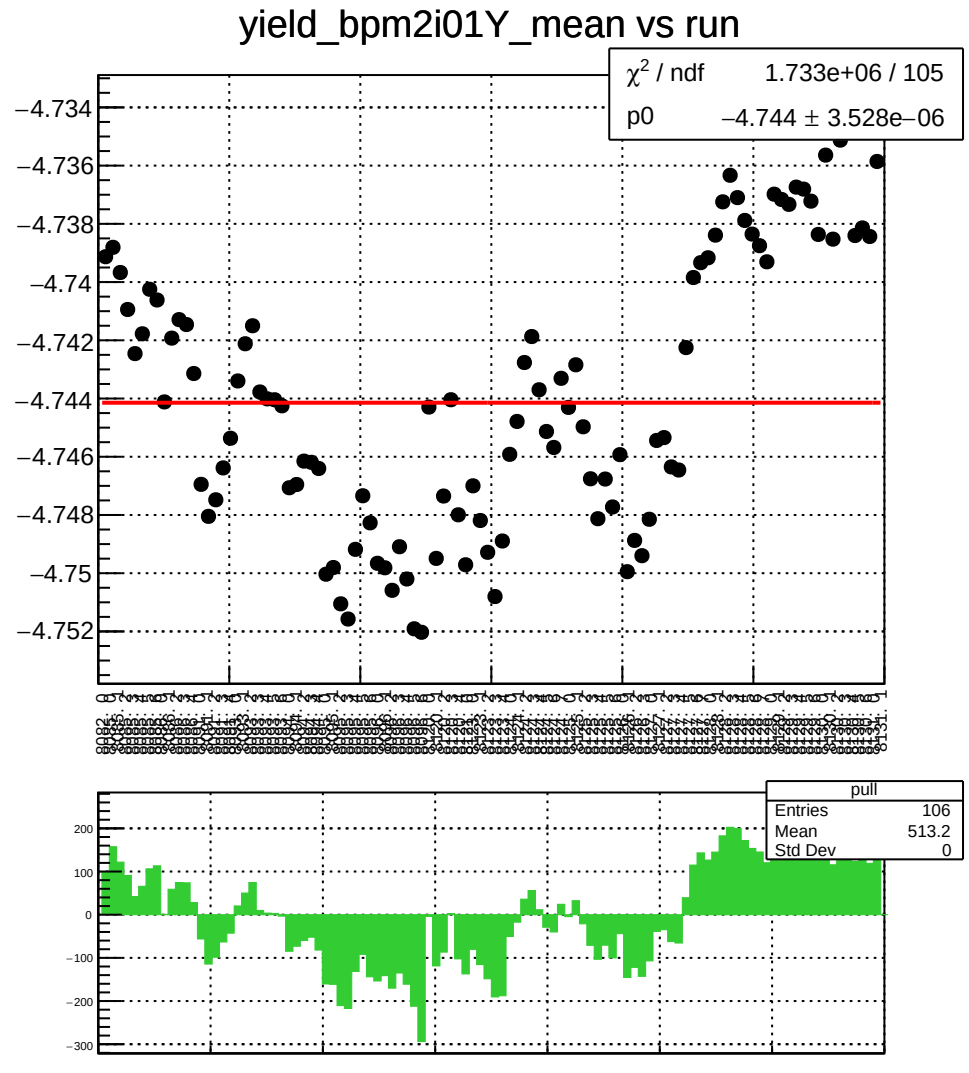

pull1D
Entries 106
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

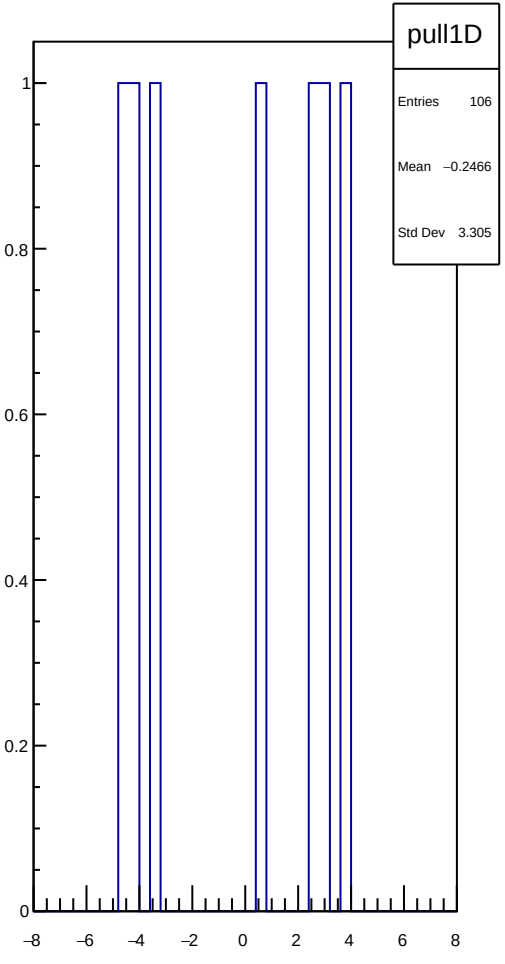

yield_bpm1i06Y_rms vs run
χ² / ndf 8.383e+04 / 105
p0 0.007054 ± 5.065e−06
0.025
0.02
0.015
0.01
0.005

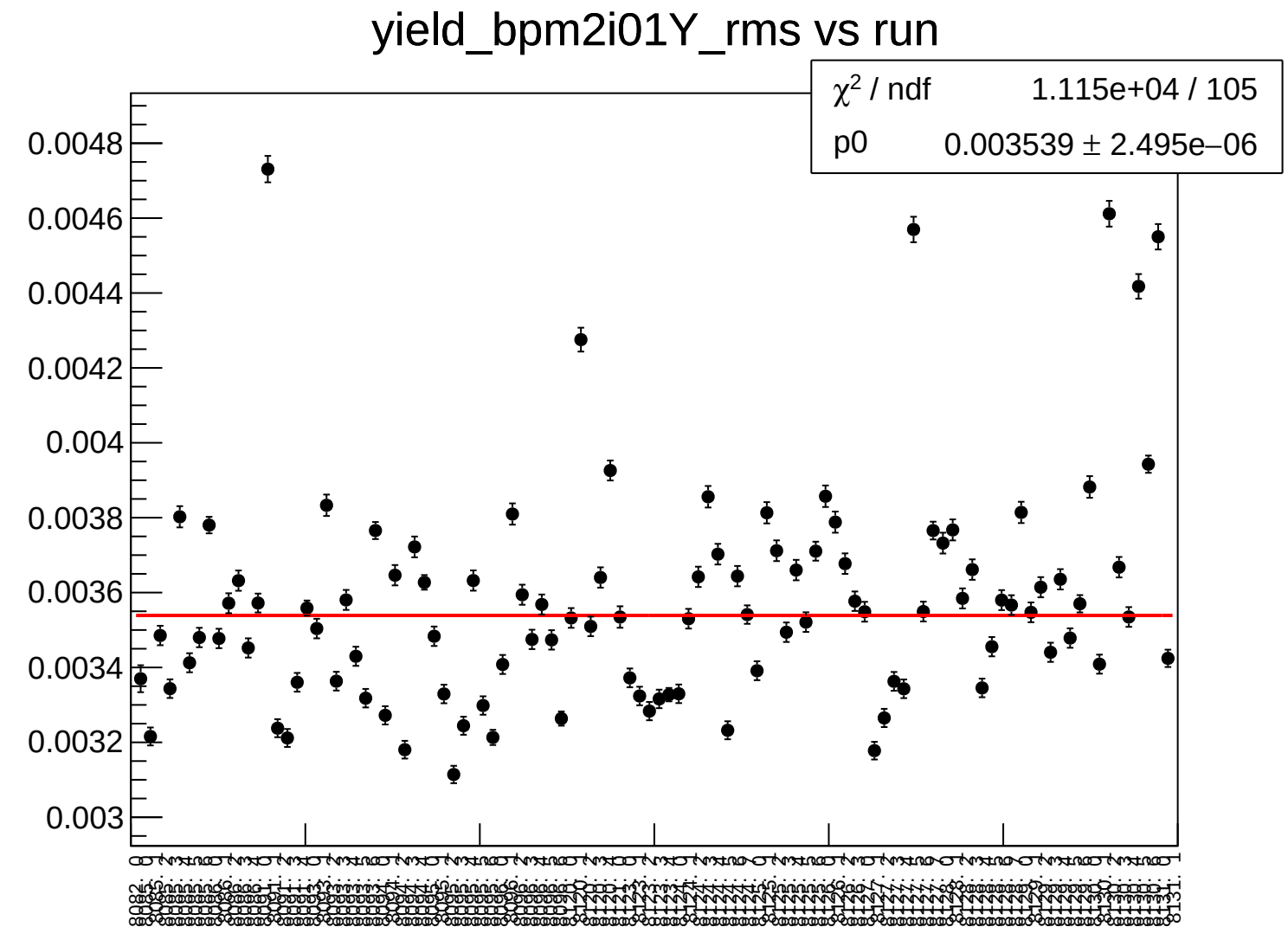

yield_bpm2i01X_mean vs run
χ² / ndf 1.215e+06 / 105
p0 0.9037 ± 4.624e−06
0.915
0.91
0.905
0.9
0.895
0.89
pull
Entries 106
Mean 1600
Std Dev 0
200
100
0
−100
−200
−300

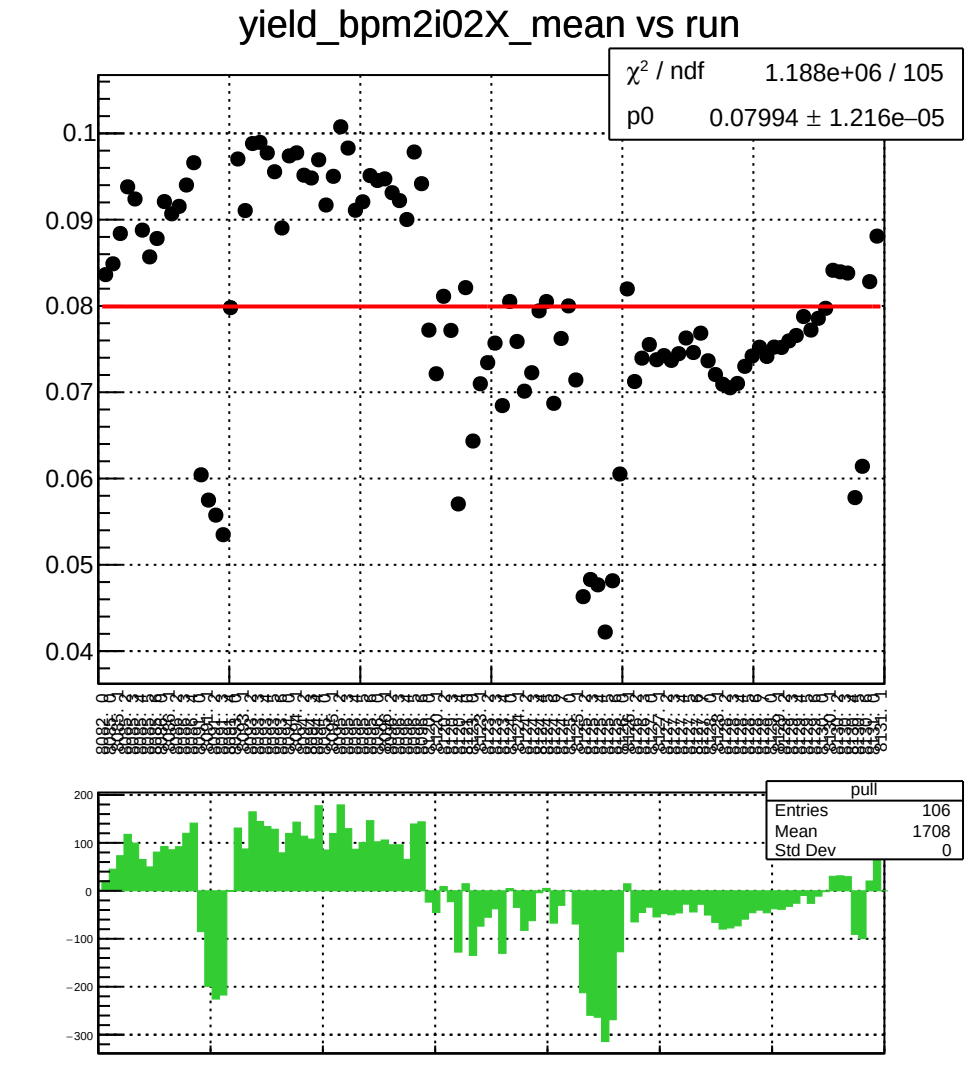

pull1D
Entries 106
Mean −1.373
Std Dev 5.116
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

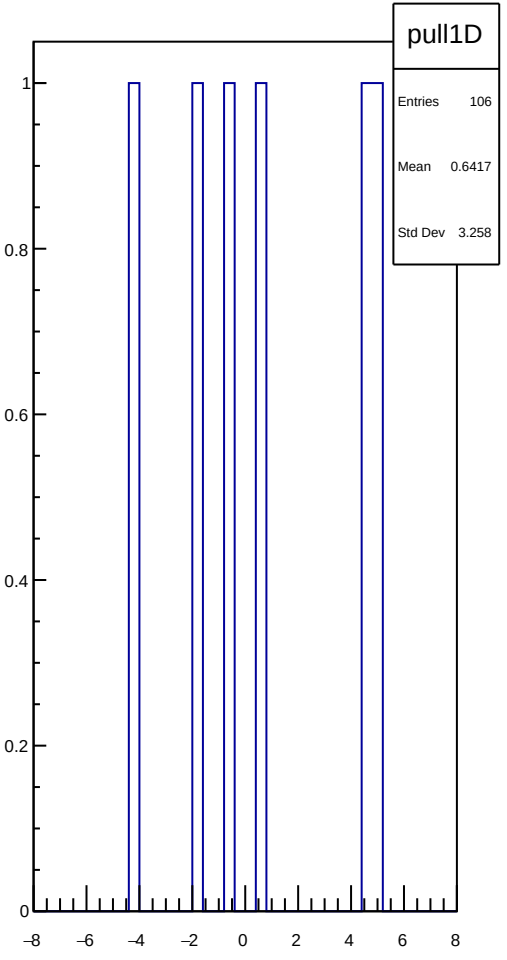

yield_bpm2i01X_rms vs run
χ² / ndf 3.5e+04 / 105
p0 0.00461 ± 3.27e−06
0.009
0.008
0.007
0.006
0.005
0.004

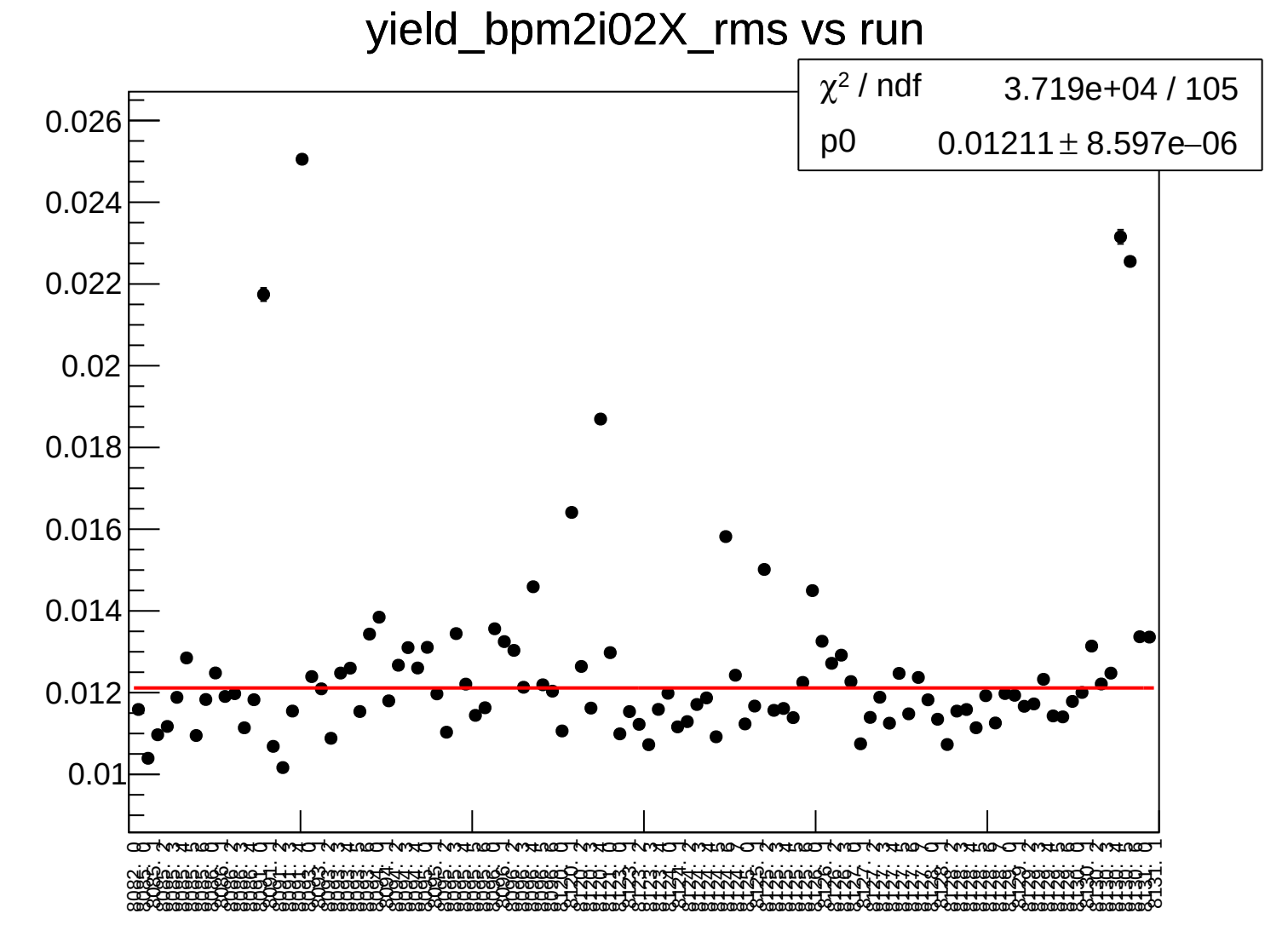

yield_bpm2i01Y_mean vs run
χ² / ndf 1.733e+06 / 105
p0 −4.744 ± 3.528e−06
−4.734
−4.736
−4.738
−4.74
−4.742
−4.744
−4.746
−4.748
−4.75
−4.752
pull
Entries 106
Mean 513.2
Std Dev 0
200
100
0
−100
−200
−300

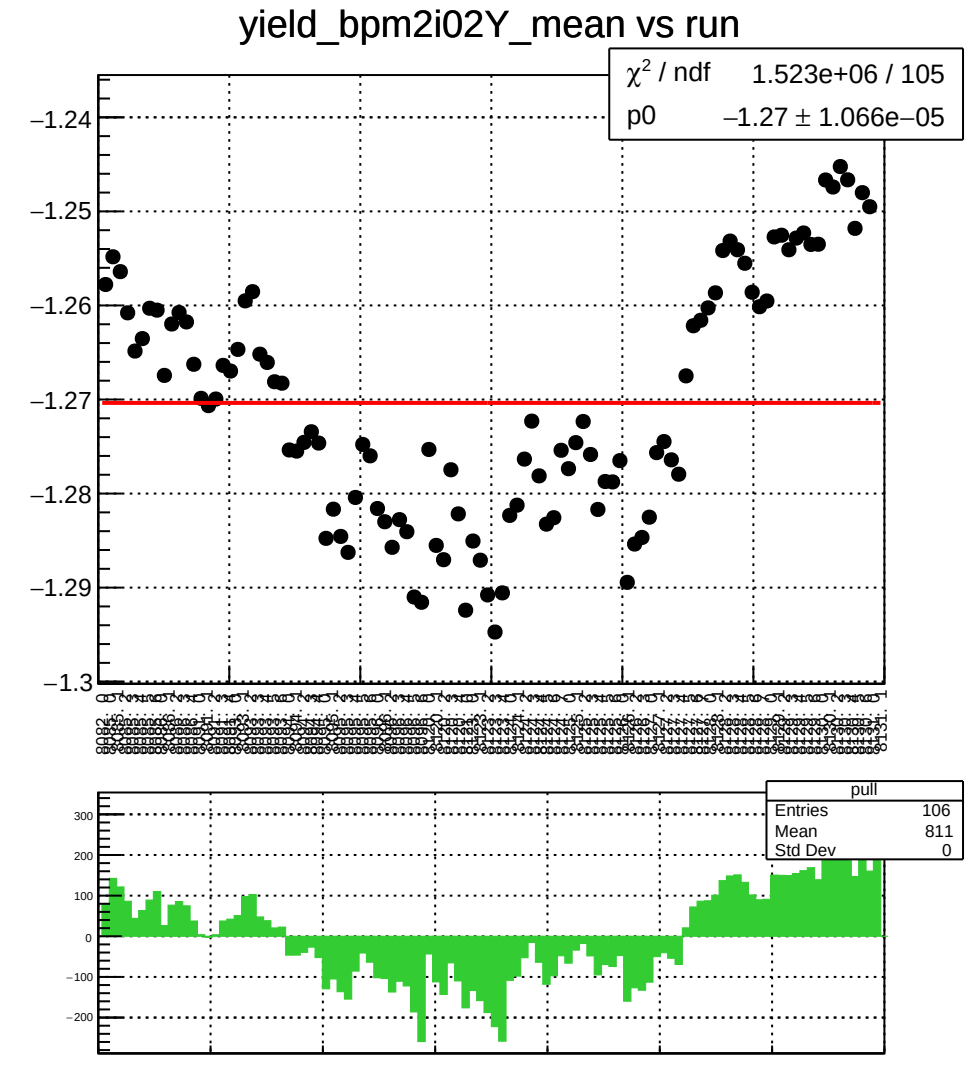

pull1D
Entries 106
Mean −0.2466
Std Dev 3.305
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

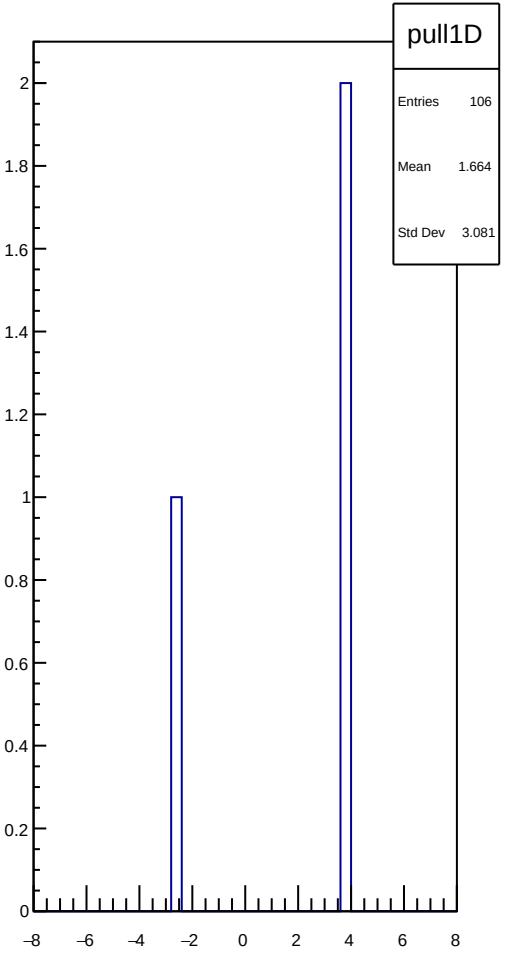

yield_bpm2i01Y_rms vs run
χ² / ndf 1.115e+04 / 105
p0 0.003539 ± 2.495e−06
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003

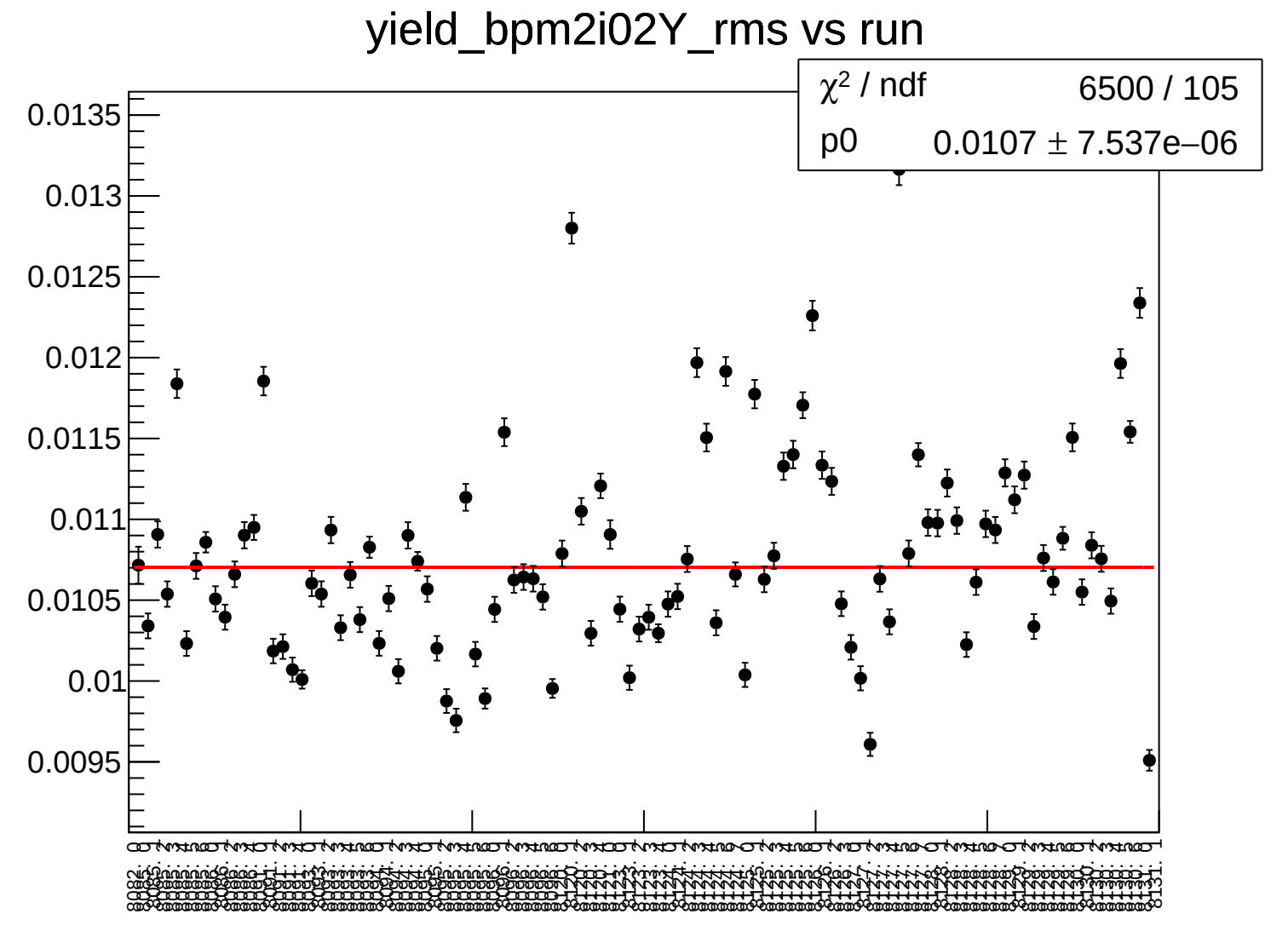

yield_bpm2i02X_mean vs run
χ² / ndf 1.188e+06 / 105
p0 0.07994 ± 1.216e−05
0.1
0.09
0.08
0.07
0.06
0.05
0.04
pull
Entries 106
Mean 1708
Std Dev 0
200
100
0
−100
−200
−300

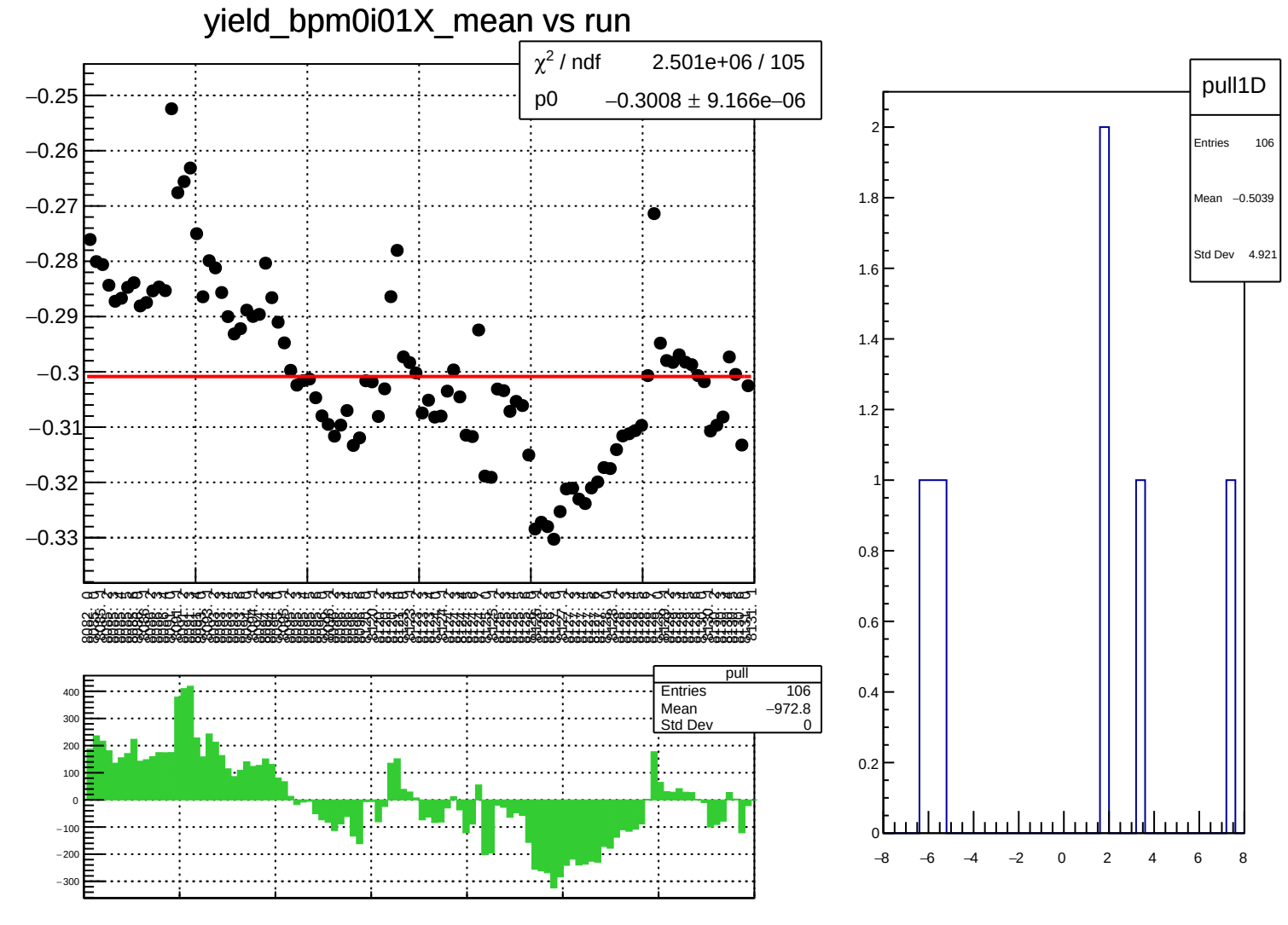

pull1D
Entries 106
Mean 0.6417
Std Dev 3.258
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

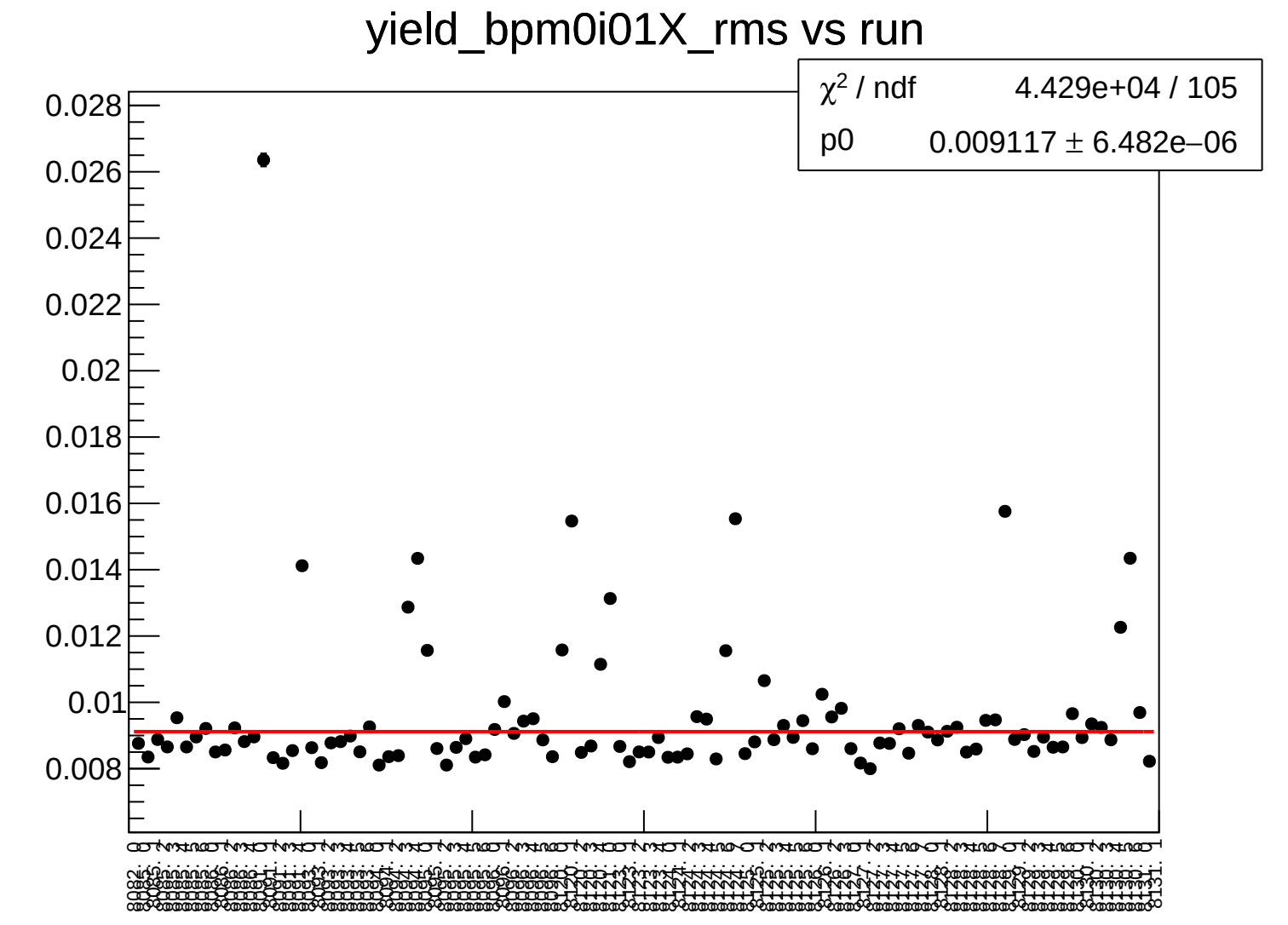

yield_bpm2i02X_rms vs run
χ² / ndf 3.719e+04 / 105
p0 0.01211 ± 8.597e–06
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

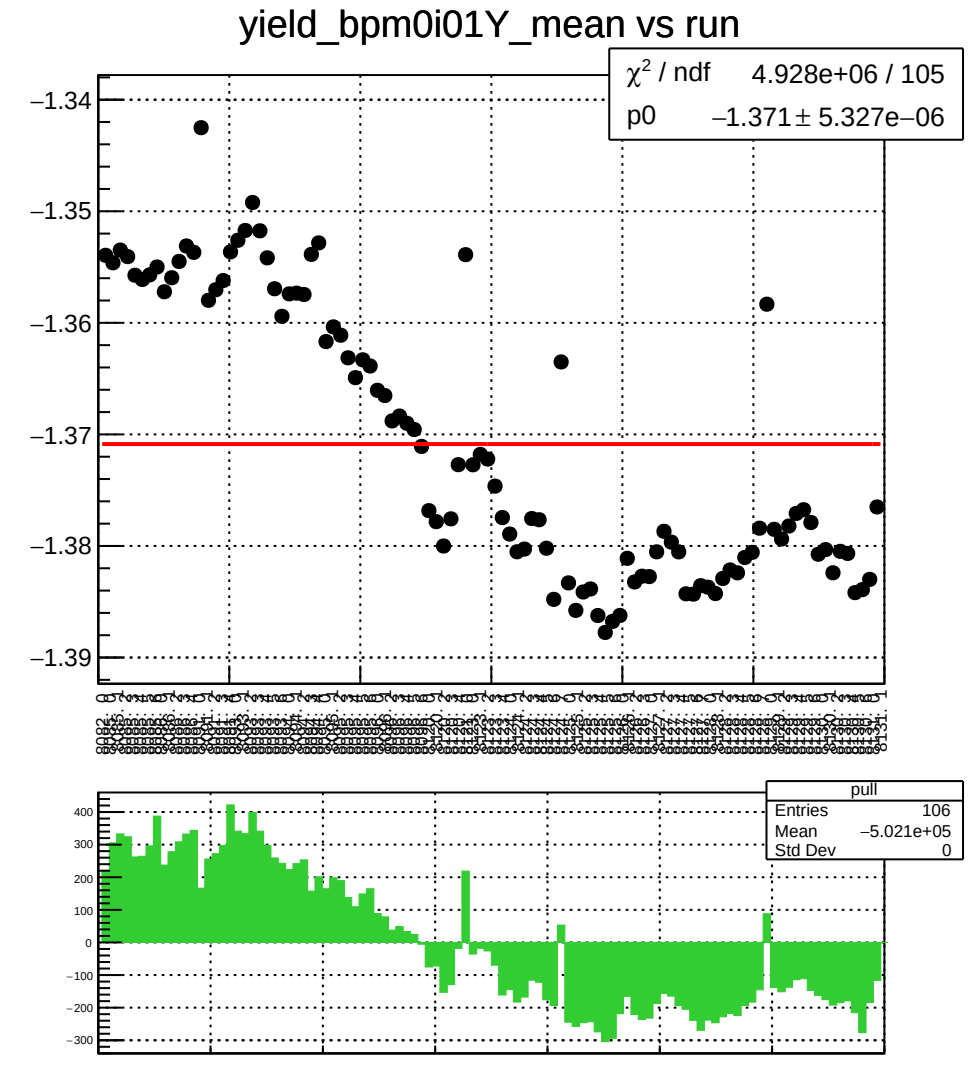

yield_bpm2i02Y_mean vs run
χ² / ndf 1.523e+06 / 105
p0 −1.27 ± 1.066e−05
−1.24
−1.25
−1.26
−1.27
−1.28
−1.29
−1.3
pull
Entries 106
Mean 811
Std Dev 0
300
200
100
0
−100
−200

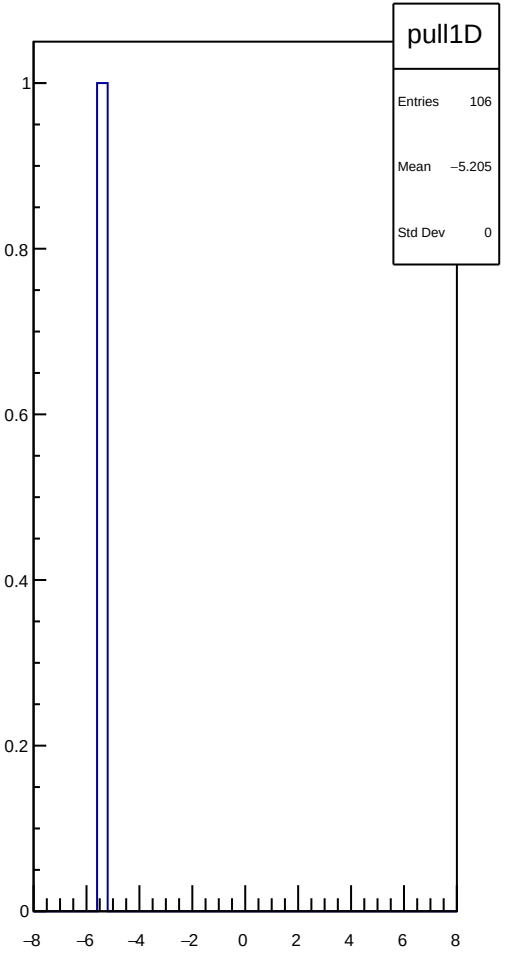

pull1D
Entries 106
Mean 1.664
Std Dev 3.081
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

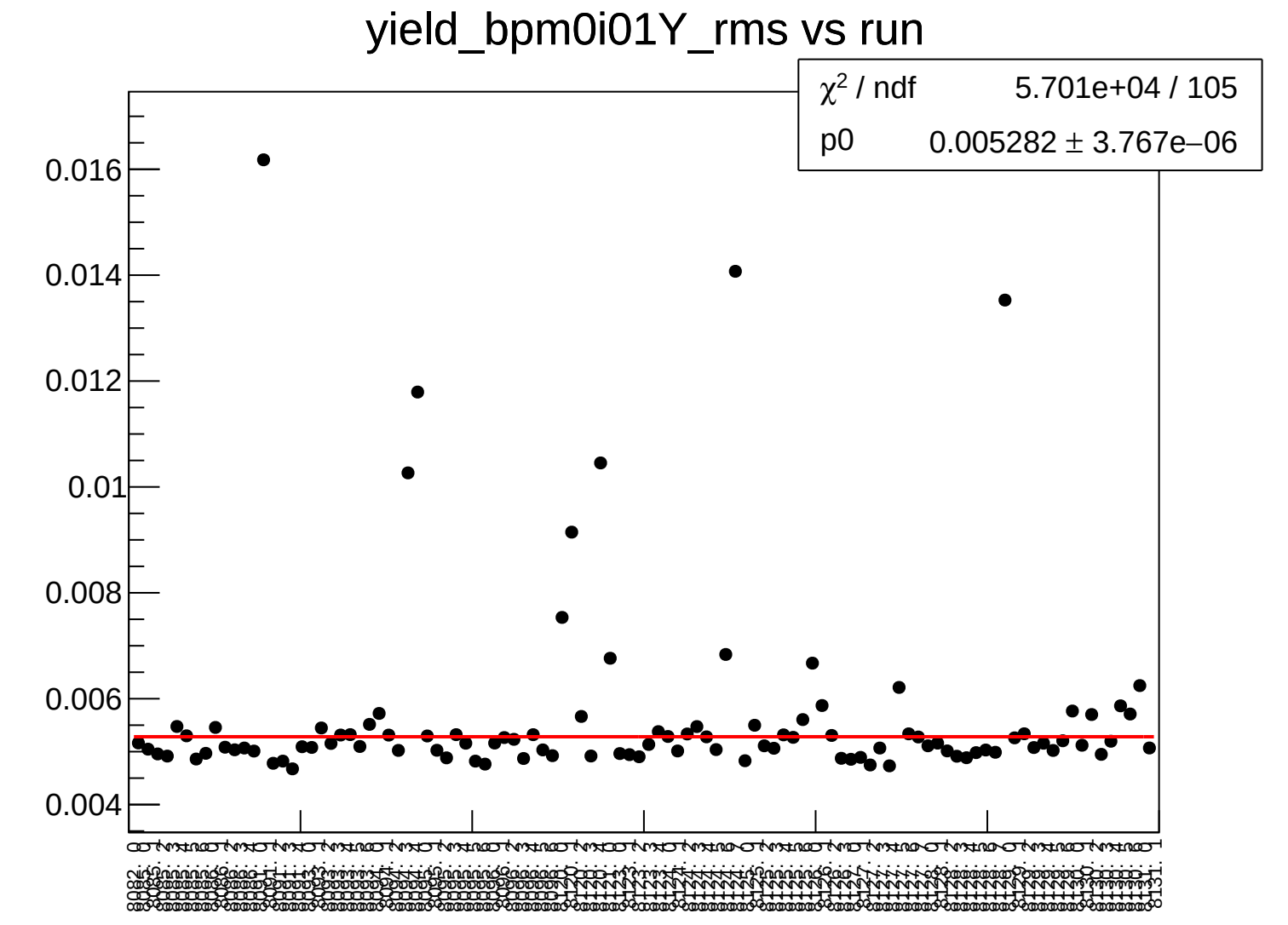

yield_bpm2i02Y_rms vs run
χ² / ndf 6500 / 105
p0 0.0107 ± 7.537e−06
0.0135
0.013
0.0125
0.012
0.0115
0.011
0.0105
0.01
0.0095

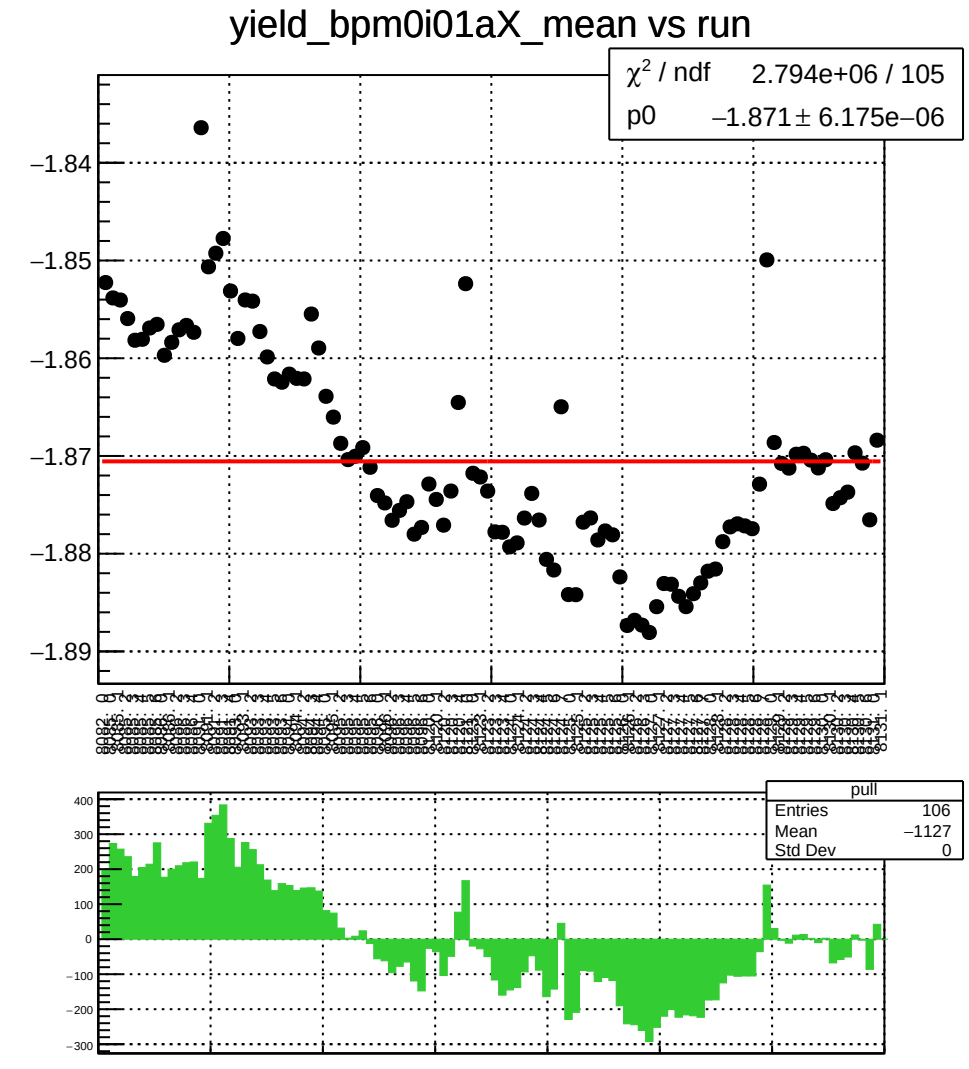

yield_bpm0i01X_mean vs run
χ² / ndf 2.501e+06 / 105
p0 −0.3008 ± 9.166e−06
−0.25
−0.26
−0.27
−0.28
−0.29
−0.3
−0.31
−0.32
−0.33
pull
Entries 106
Mean −972.8
Std Dev 0
400
300
200
100
0
−100
−200
−300
pull1D
Entries 106
Mean −0.5039
Std Dev 4.921
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

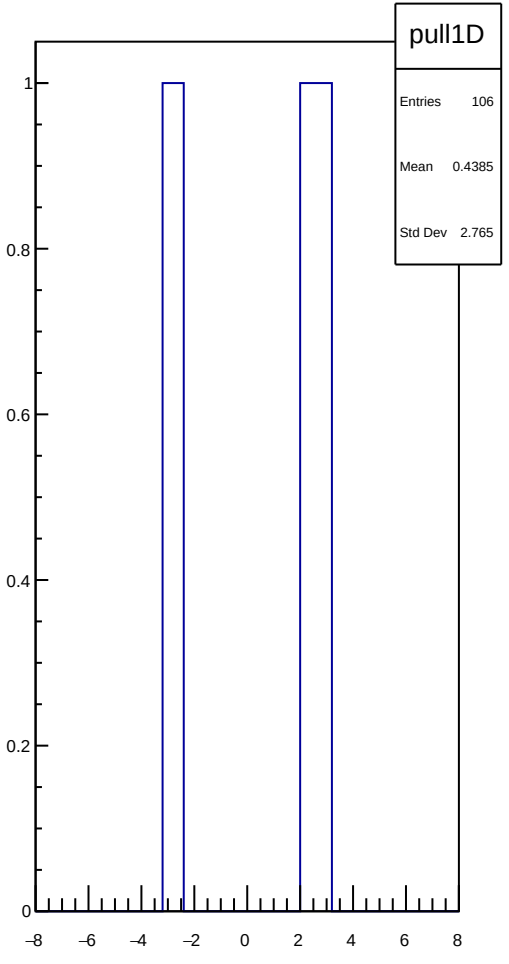

yield_bpm0i01X_rms vs run
χ² / ndf 4.429e+04 / 105
p0 0.009117 ± 6.482e−06
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008

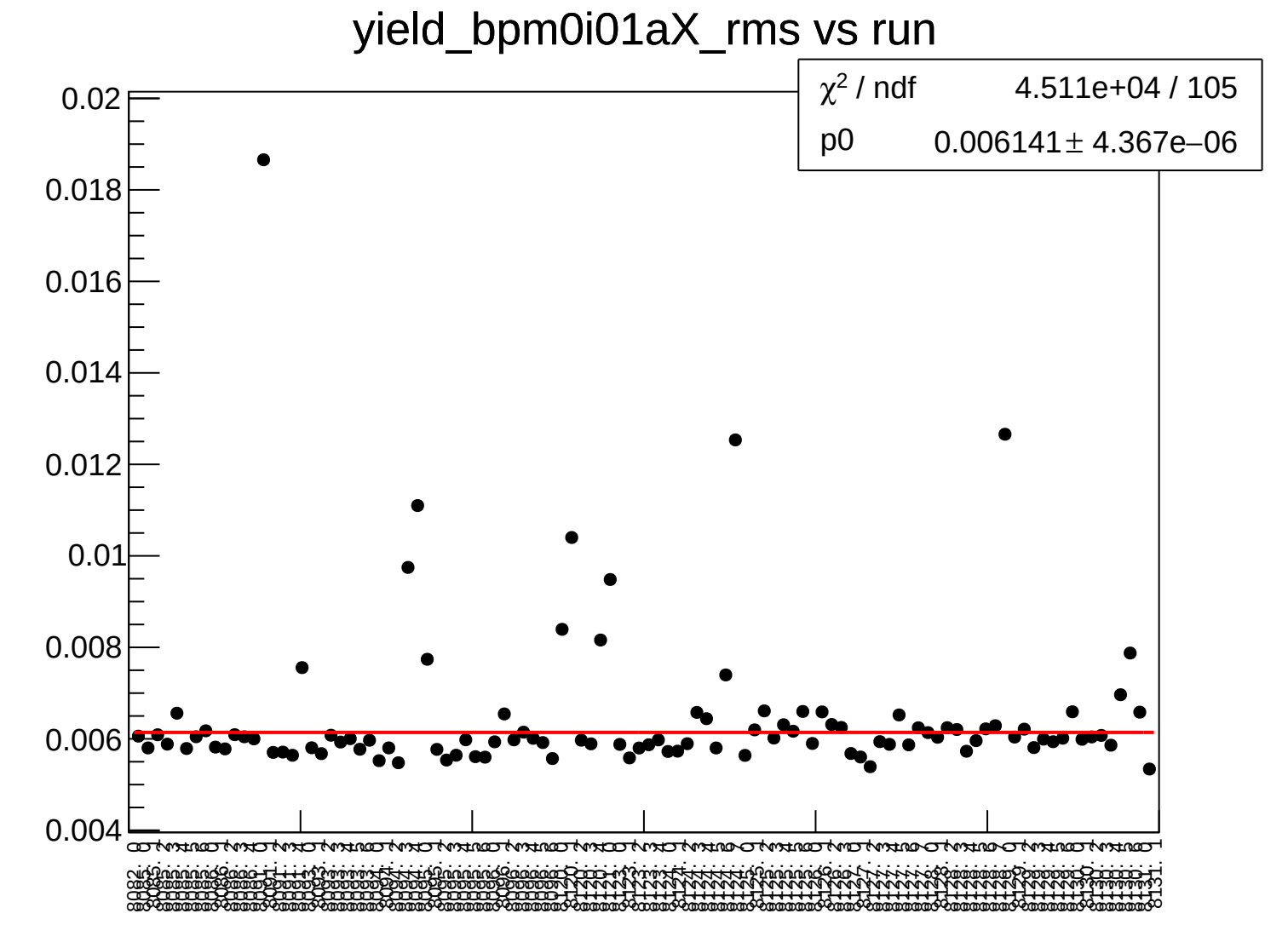

yield_bpm0i01Y_mean vs run
χ² / ndf 4.928e+06 / 105
p0 −1.371 ± 5.327e−06
−1.34
−1.35
−1.36
−1.37
−1.38
−1.39
pull
Entries 106
Mean −5.021e+05
Std Dev 0
400
300
200
100
0
−100
−200
−300

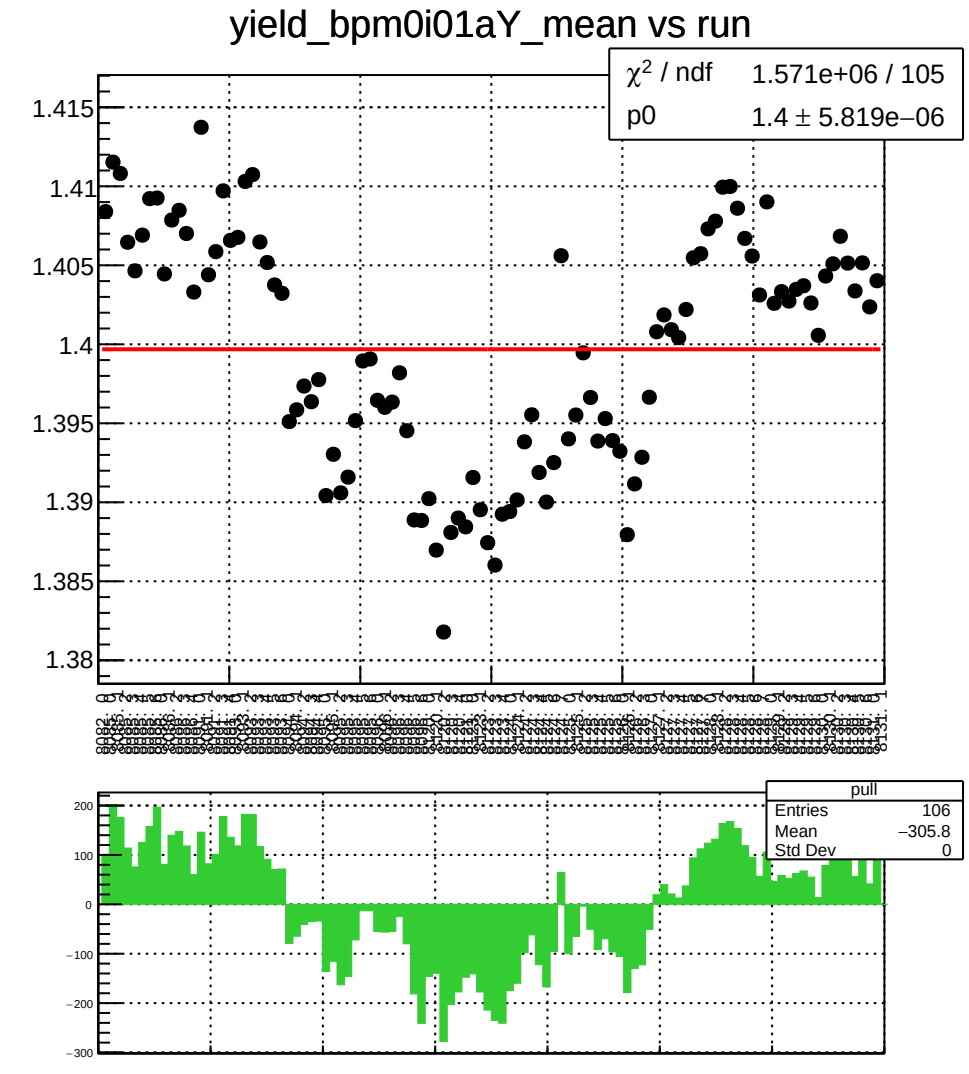

pull1D
Entries 106
Mean −5.205
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

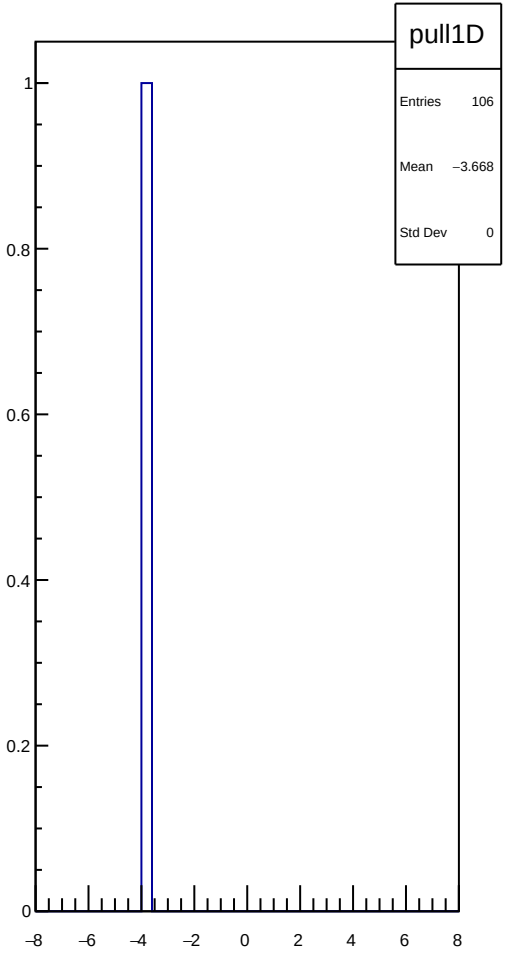

yield_bpm0i01Y_rms vs run
χ² / ndf 5.701e+04 / 105
p0 0.005282 ± 3.767e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004

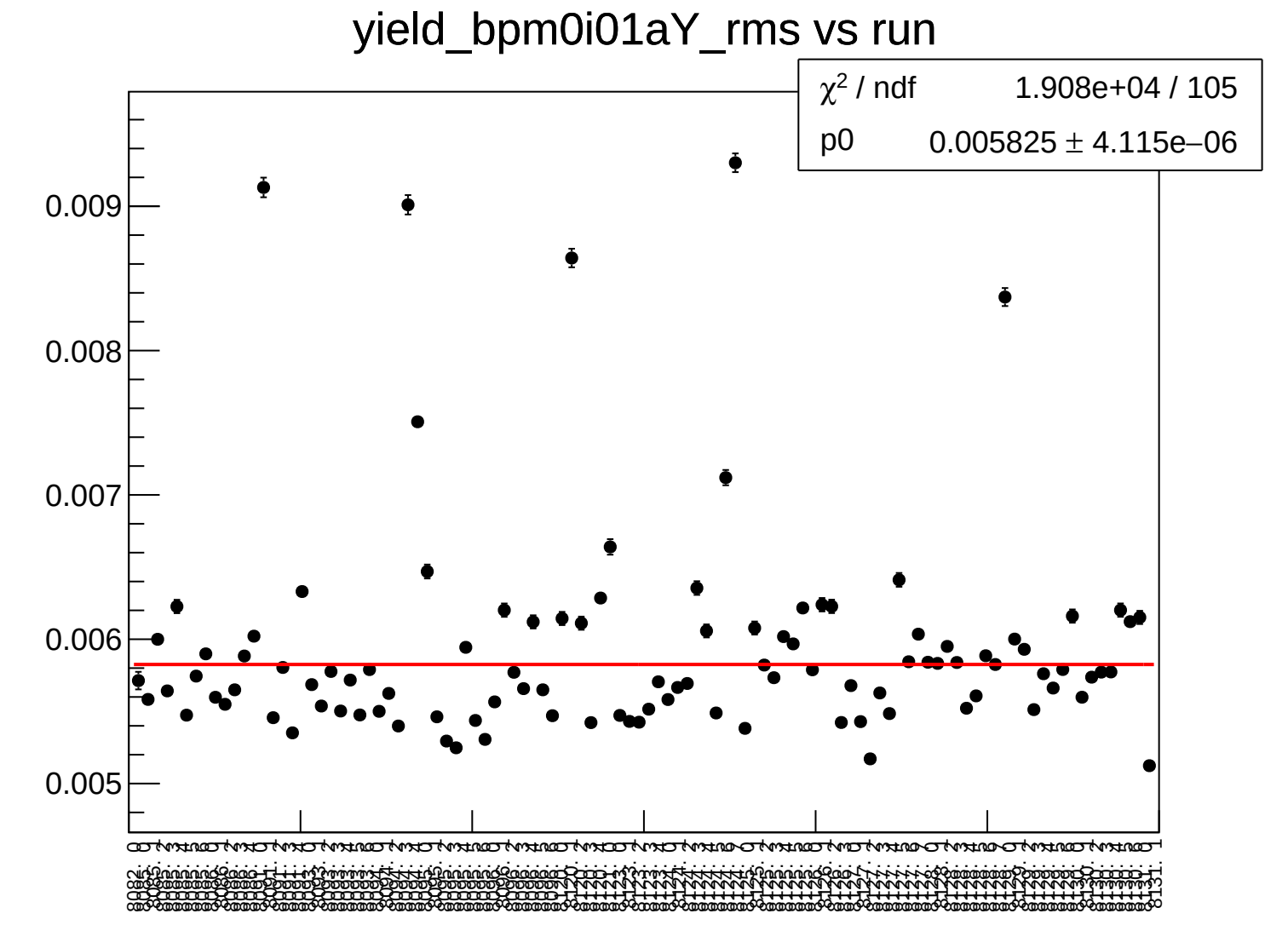

yield_bpm0i01aX_mean vs run
χ² / ndf 2.794e+06 / 105
p0 −1.871 ± 6.175e−06
−1.84
−1.85
−1.86
−1.87
−1.88
−1.89
pull
Entries 106
Mean −1127
Std Dev 0
400
300
200
100
0
−100
−200
−300

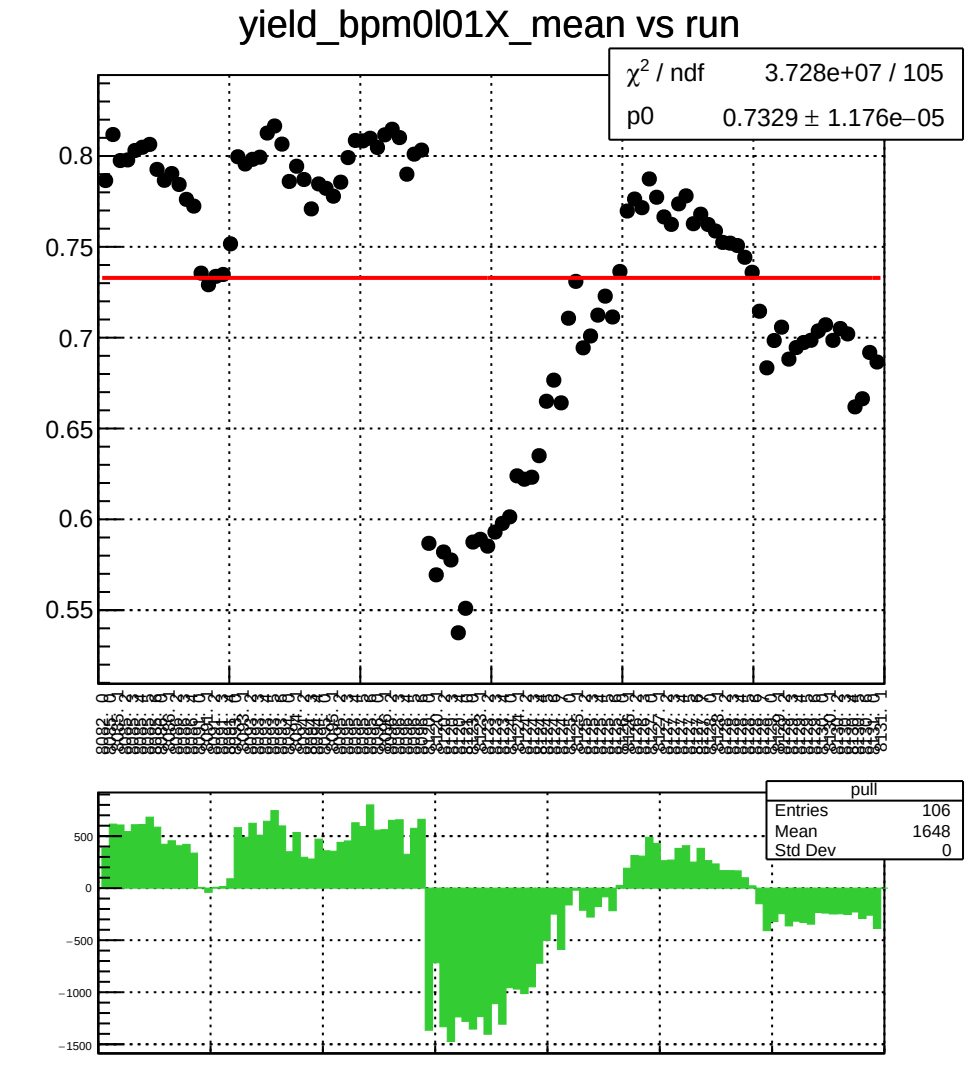

pull1D
Entries 106
Mean 0.4385
Std Dev 2.765
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

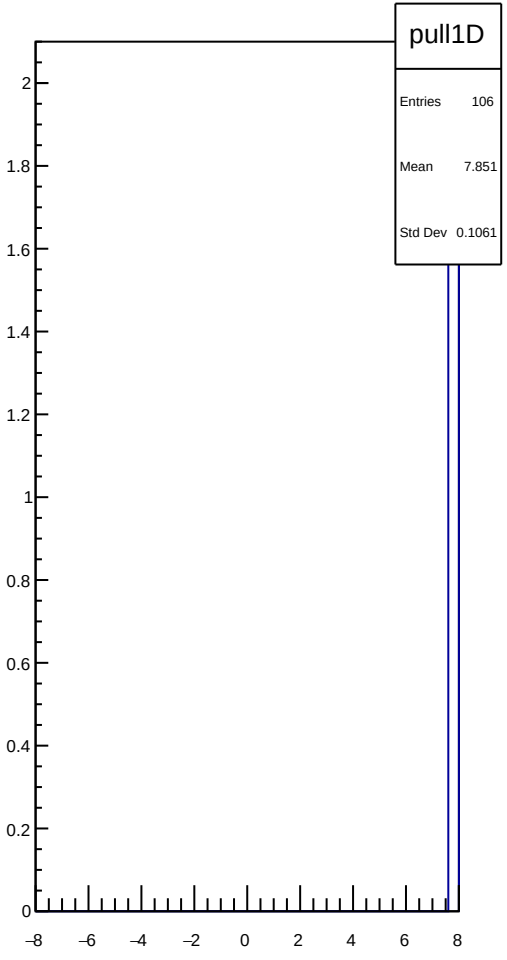

yield_bpm0i01aX_rms vs run
χ² / ndf 4.511e+04 / 105
p0 0.006141 ± 4.367e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

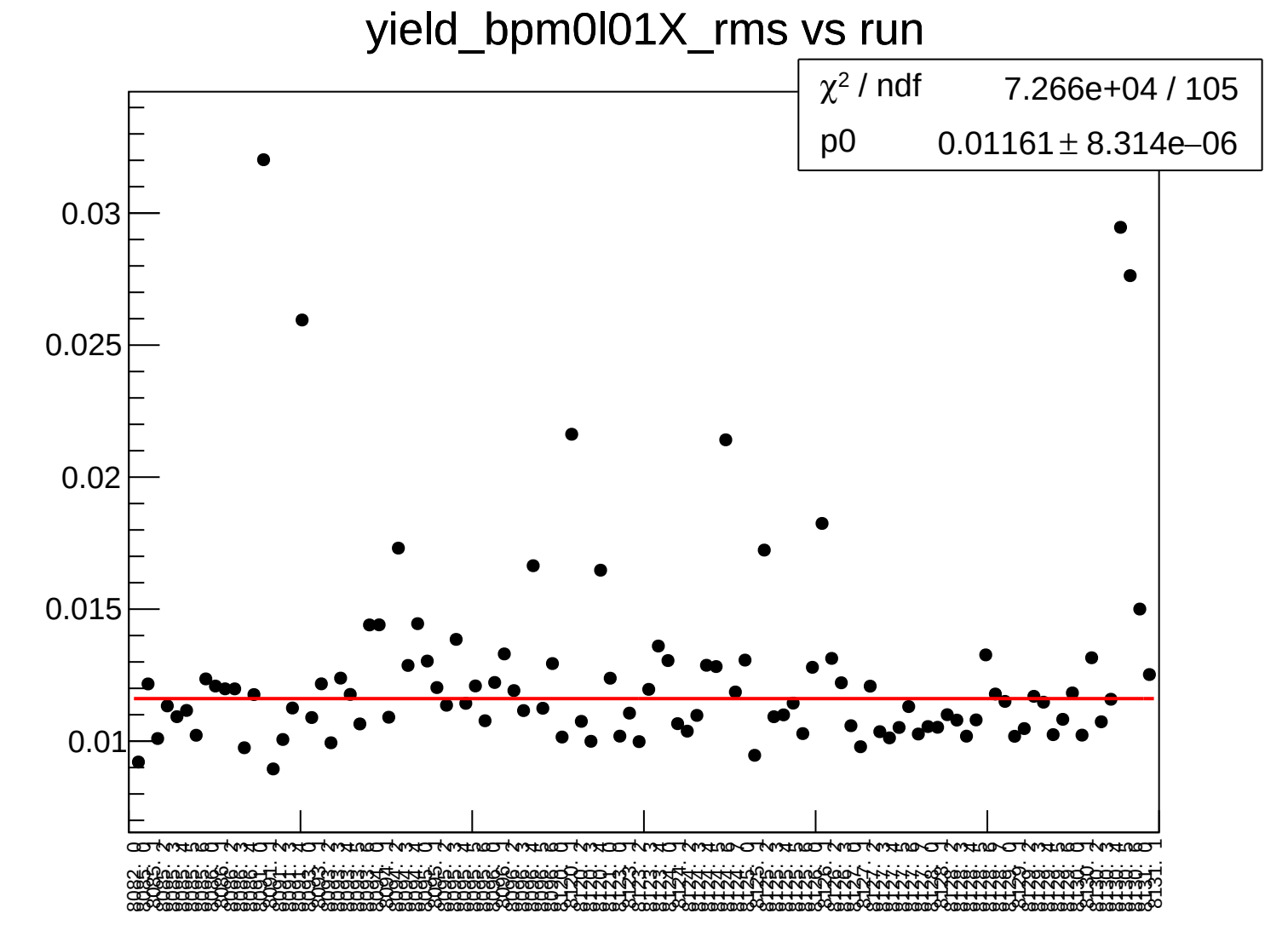

yield_bpm0i01aY_mean vs run
χ² / ndf 1.571e+06 / 105
p0 1.4 ± 5.819e−06
1.415
1.41
1.405
1.4
1.395
1.39
1.385
1.38
pull
Entries 106
Mean −305.8
Std Dev 0
200
100
0
−100
−200
−300

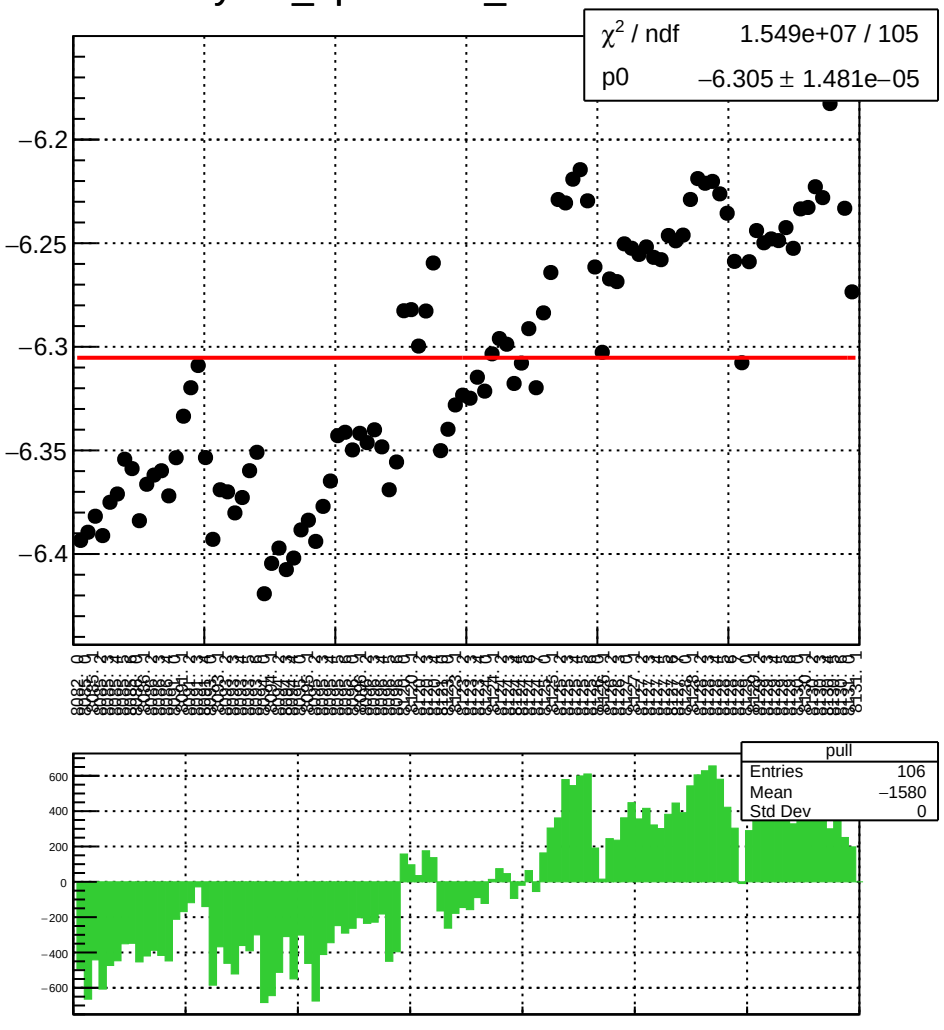

pull1D
Entries 106
Mean −3.668
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

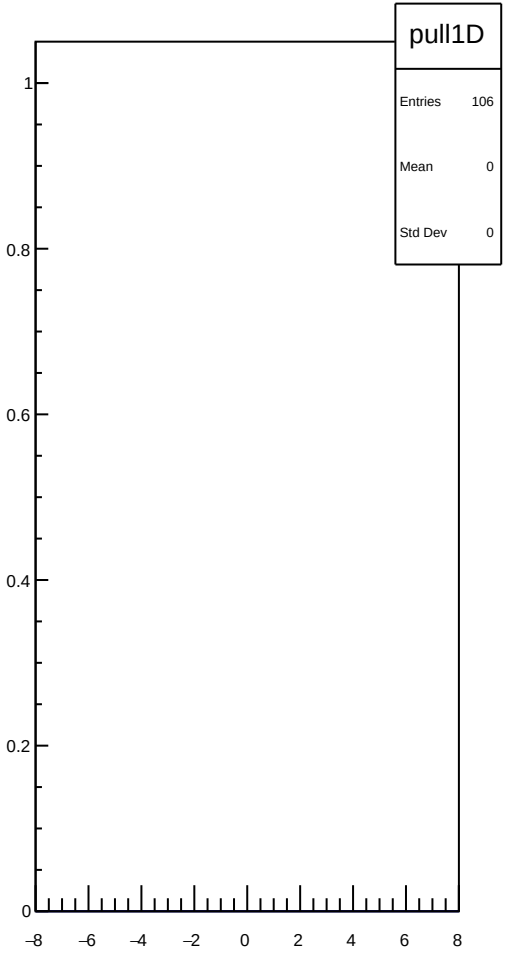

yield_bpm0i01aY_rms vs run
χ² / ndf 1.908e+04 / 105
p0 0.005825 ± 4.115e−06
0.009
0.008
0.007
0.006
0.005

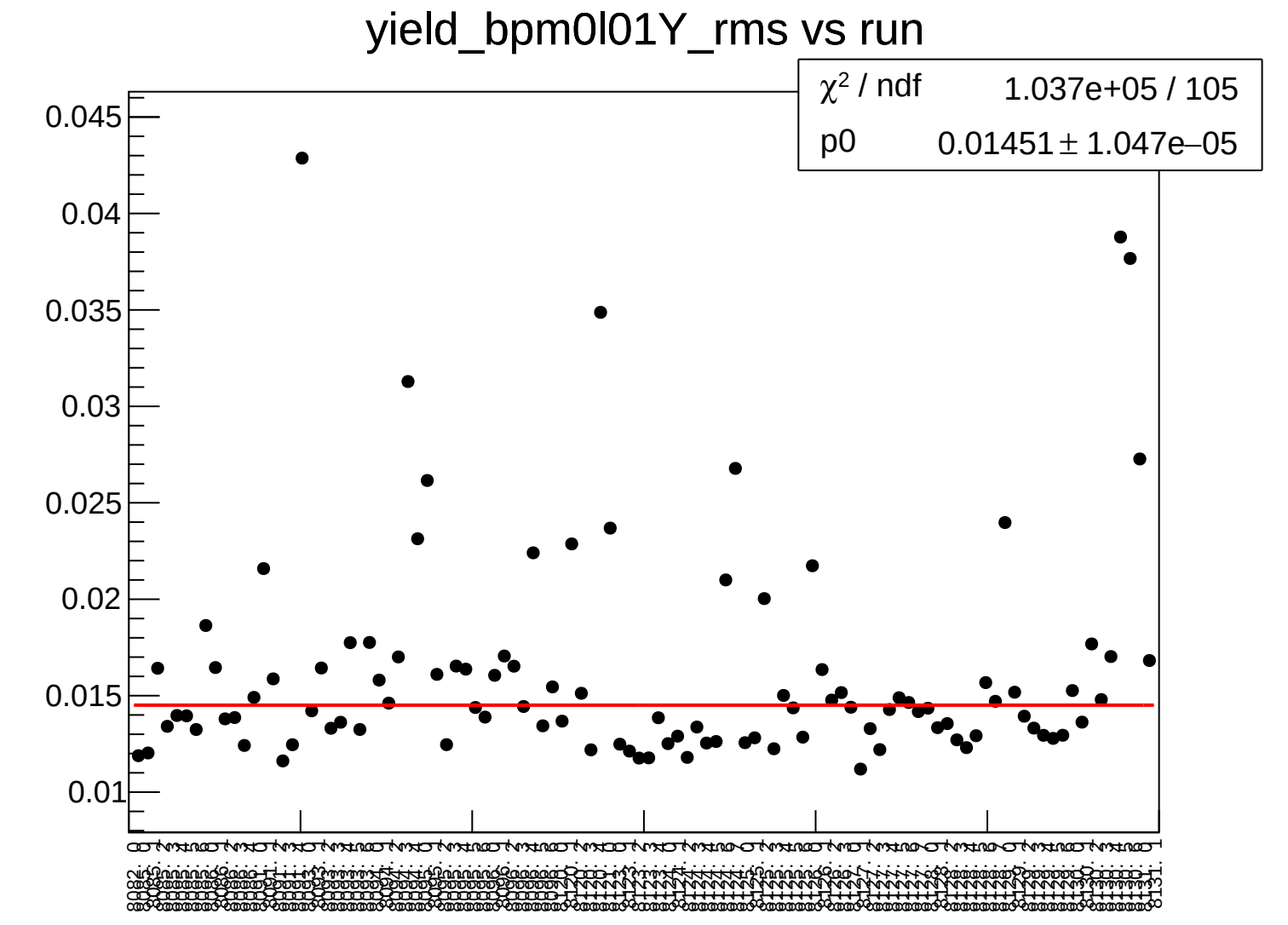

yield_bpm0l01X_mean vs run
χ² / ndf 3.728e+07 / 105
p0 0.7329 ± 1.176e−05
0.8
0.75
0.7
0.65
0.6
0.55
pull
Entries 106
Mean 1648
Std Dev 0
500
0
−500
−1000
−1500

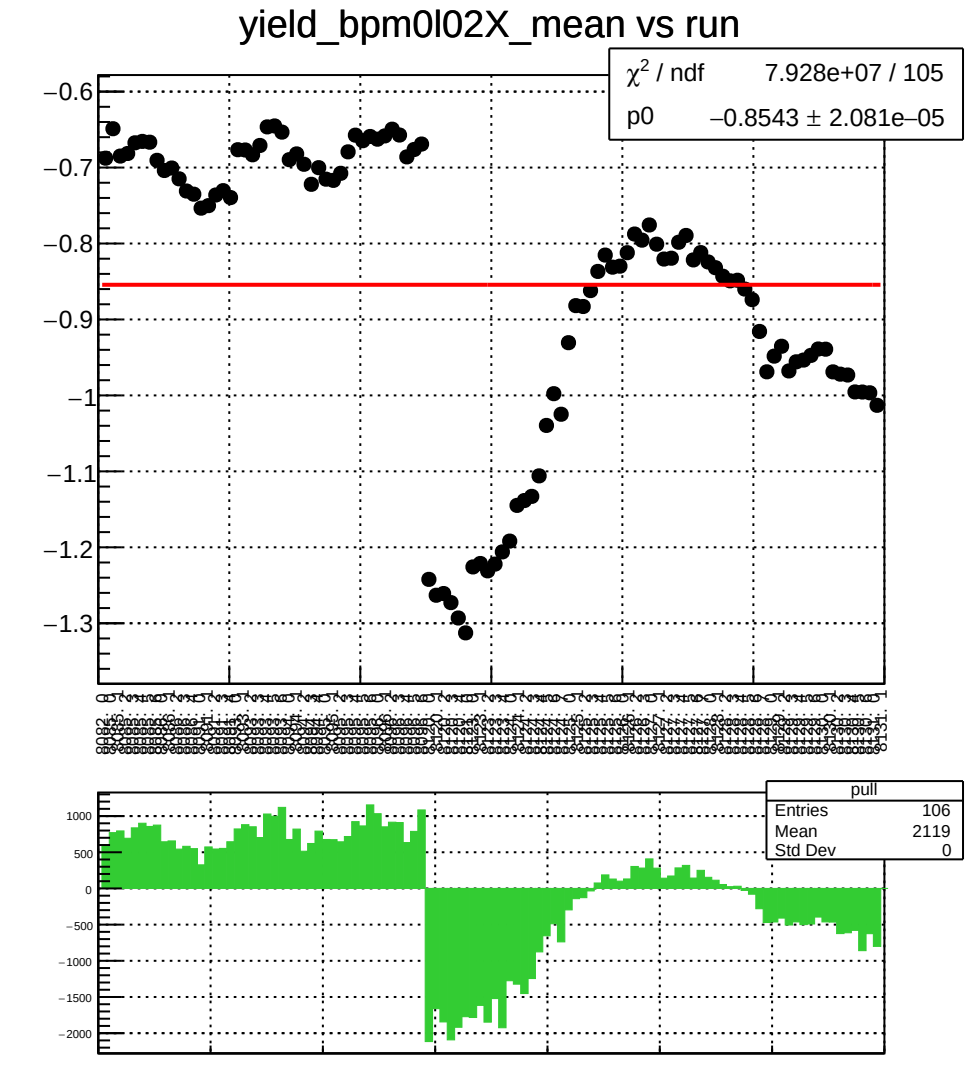

pull1D
Entries 106
Mean 7.851
Std Dev 0.1061
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

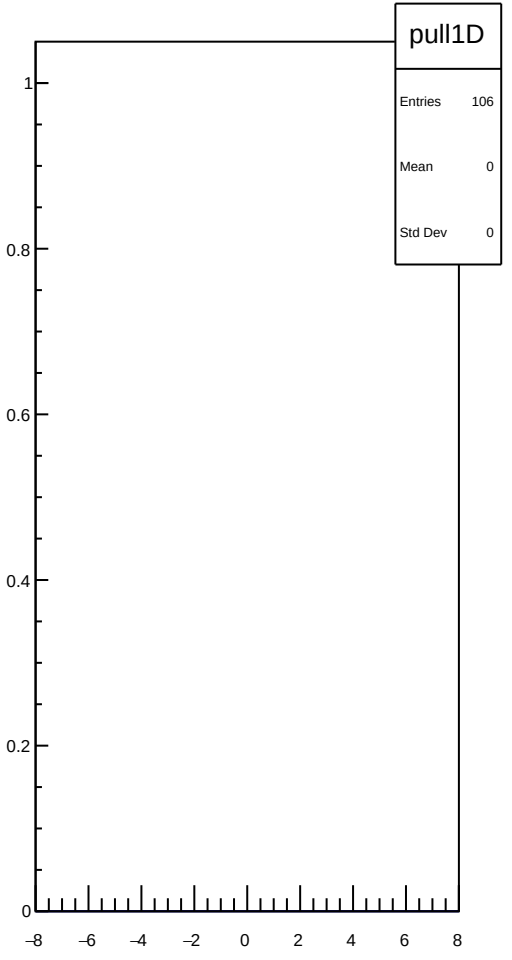

yield_bpm0l01X_rms vs run
χ² / ndf 7.266e+04 / 105
p0 0.01161 ± 8.314e−06
0.03
0.025
0.02
0.015
0.01

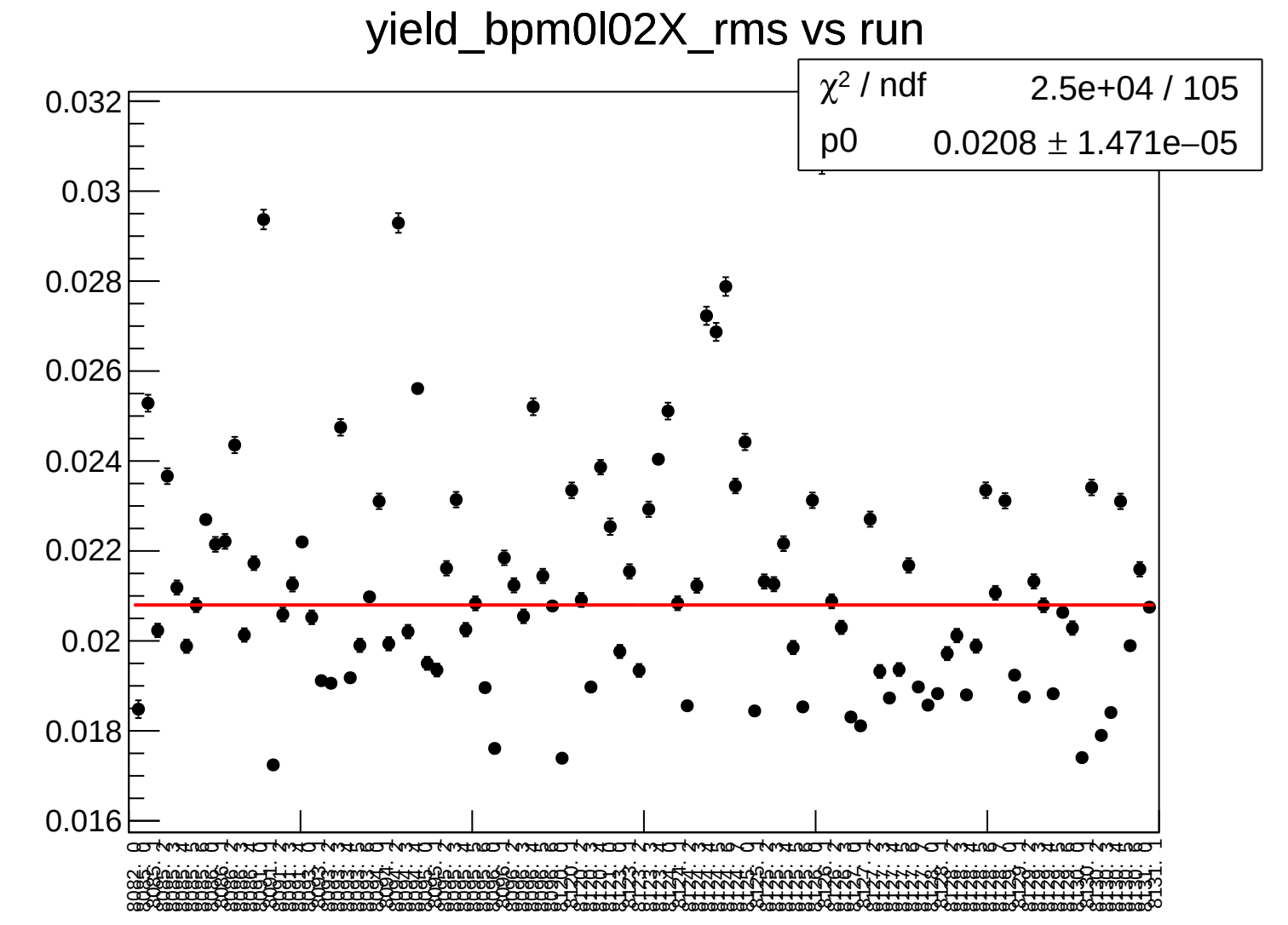

yield_bpm0l01Y_mean vs run
χ² / ndf 1.549e+07 / 105
p0 −6.305 ± 1.481e−05
−6.2
−6.25
−6.3
−6.35
−6.4
pull
Entries 106
Mean −1580
Std Dev 0
600
400
200
0
−200
−400
−600

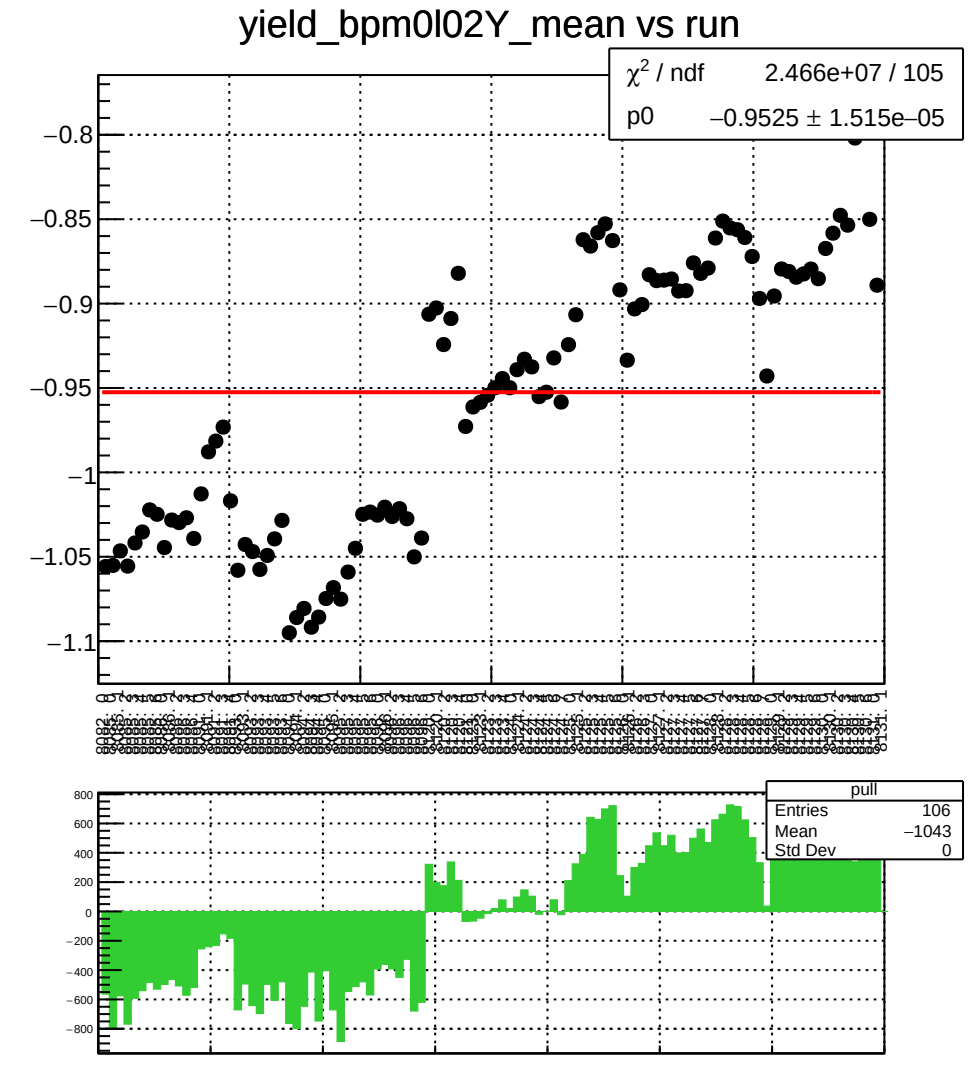

pull1D
Entries 106
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

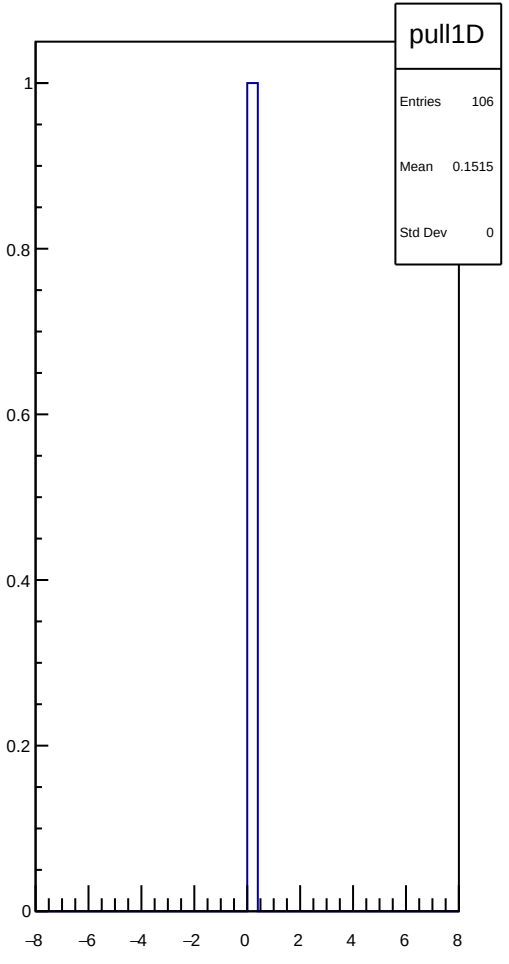

yield_bpm0l01Y_rms vs run
χ² / ndf 1.037e+05 / 105
p0 0.01451 ± 1.047e–05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

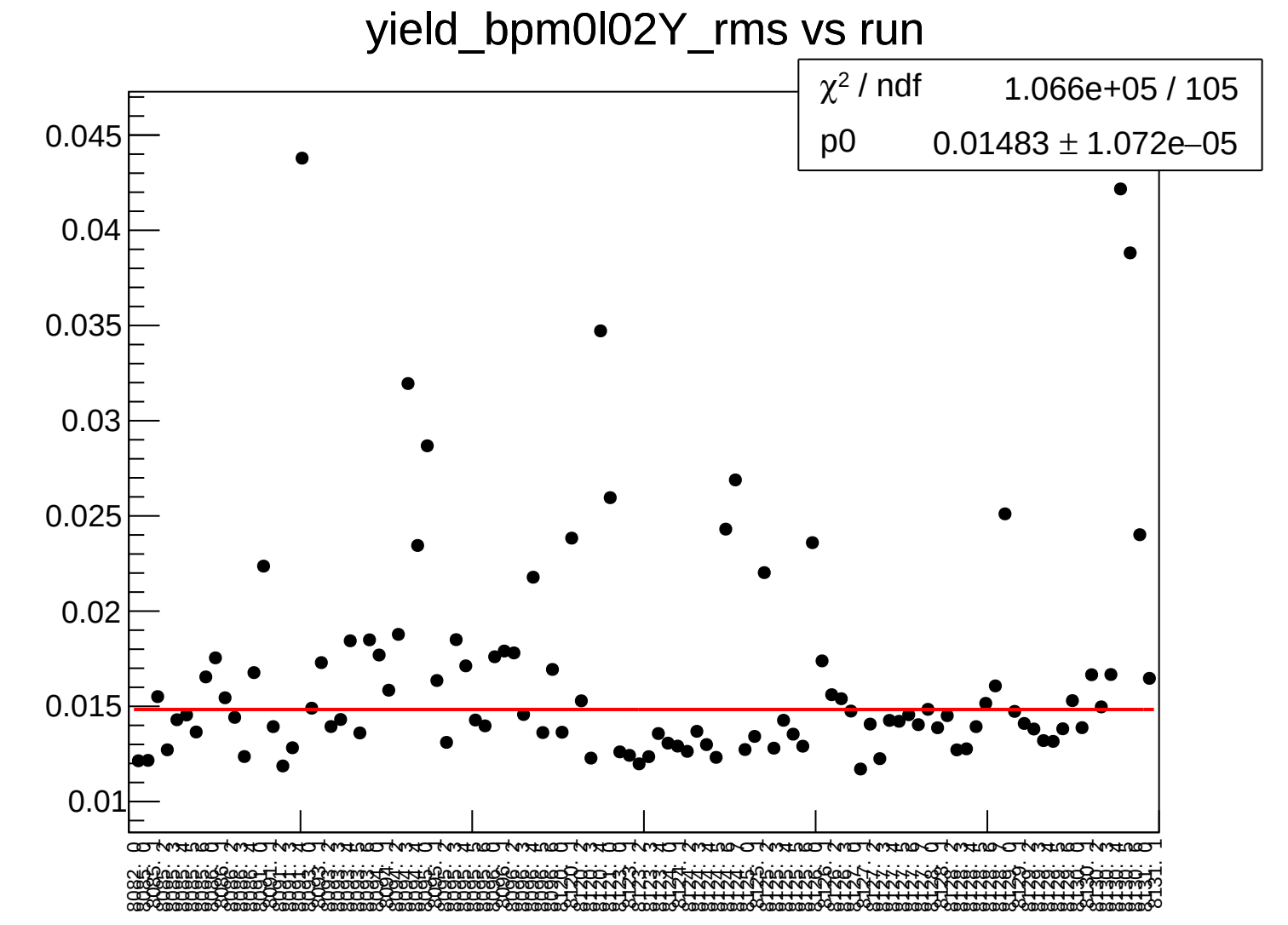

yield_bpm0l02X_mean vs run
χ² / ndf 7.928e+07 / 105
p0 −0.8543 ± 2.081e−05
−0.6
−0.7
−0.8
−0.9
−1
−1.1
−1.2
−1.3
pull
Entries 106
Mean 2119
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000

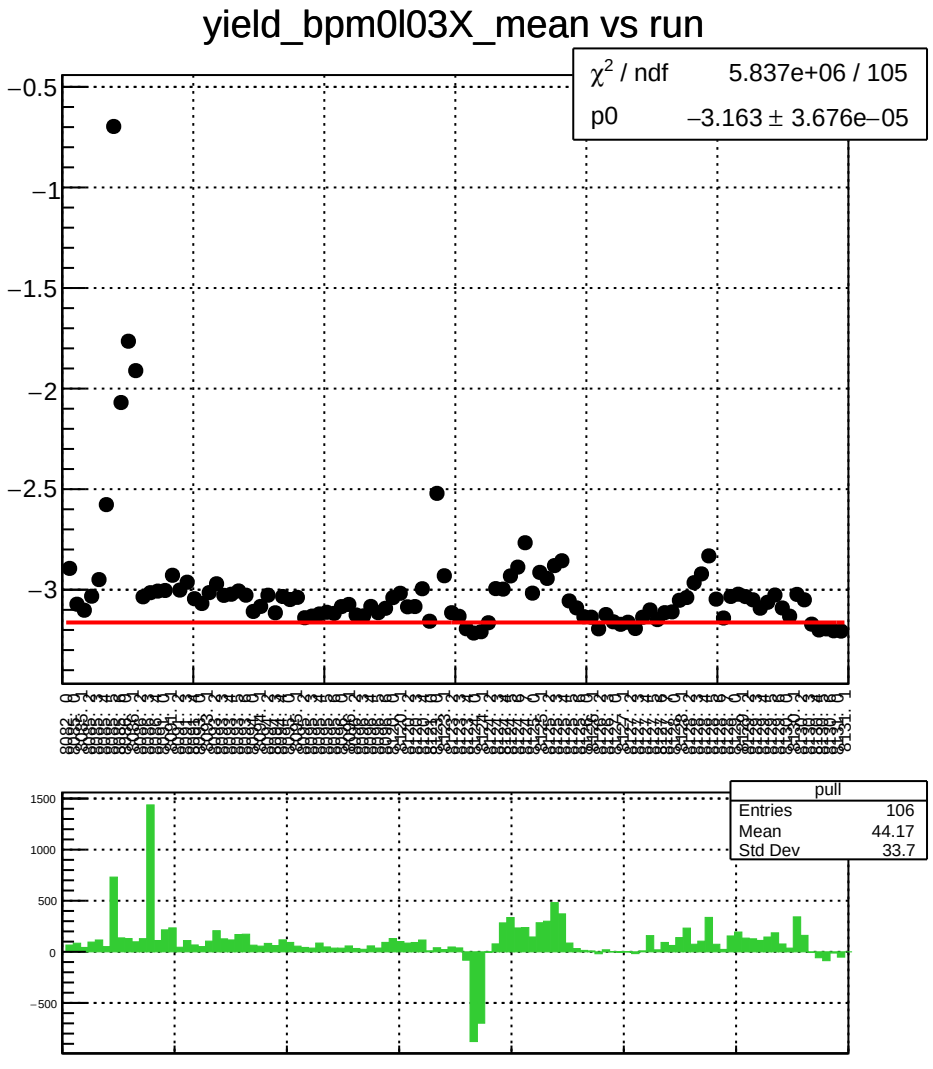

pull1D
Entries 106
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

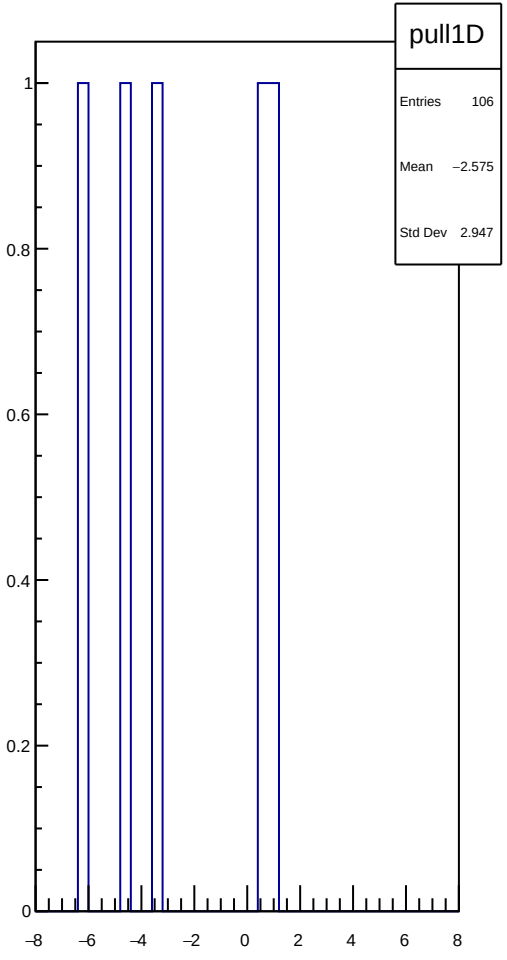

yield_bpm0l02X_rms vs run
χ² / ndf 2.5e+04 / 105
p0 0.0208 ± 1.471e−05
0.032
0.03
0.028
0.026
0.024
0.022
0.02
0.018
0.016

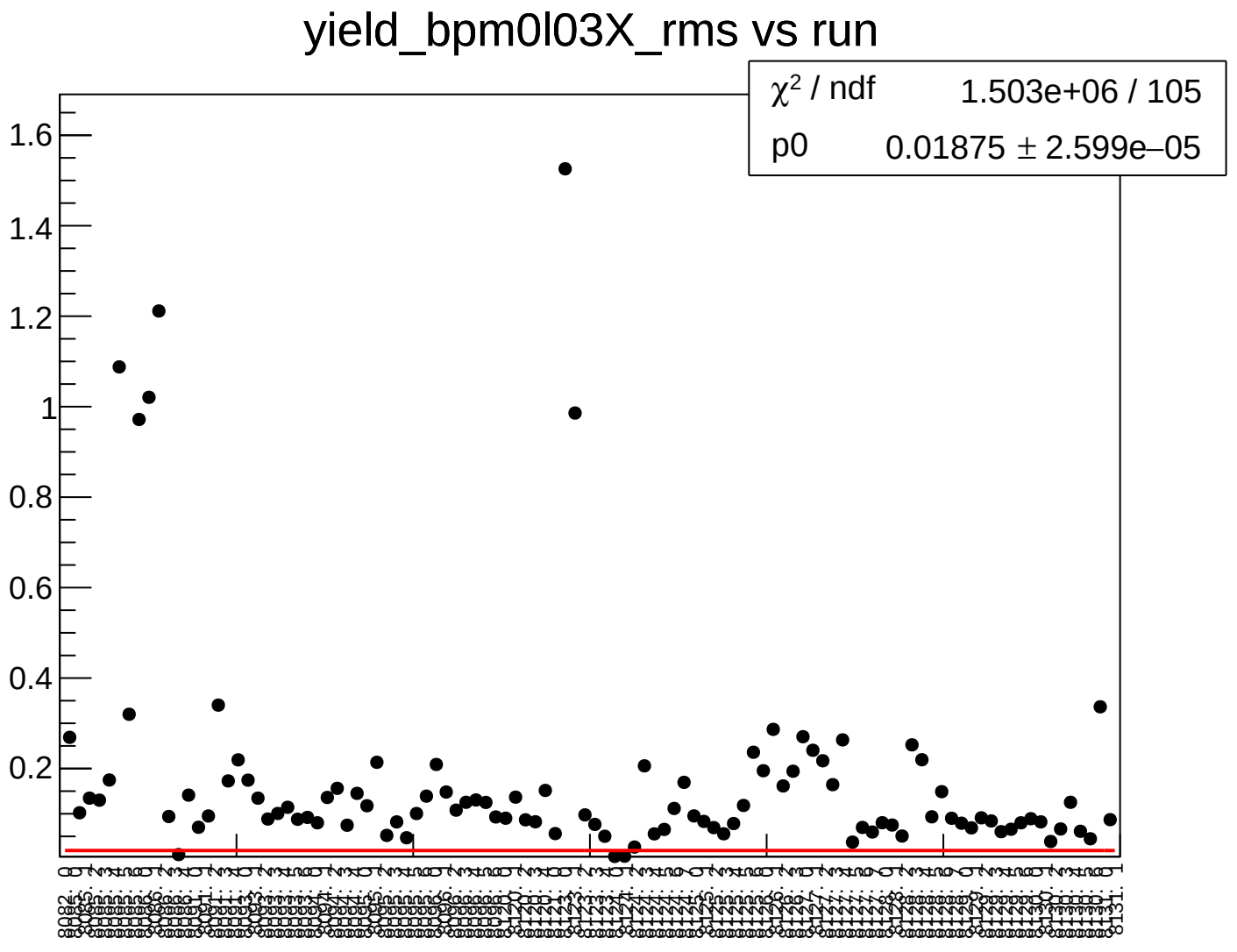

yield_bpm0l02Y_mean vs run
χ² / ndf 2.466e+07 / 105
p0 −0.9525 ± 1.515e−05
−0.8
−0.85
−0.9
−0.95
−1
−1.05
−1.1
pull
Entries 106
Mean −1043
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800

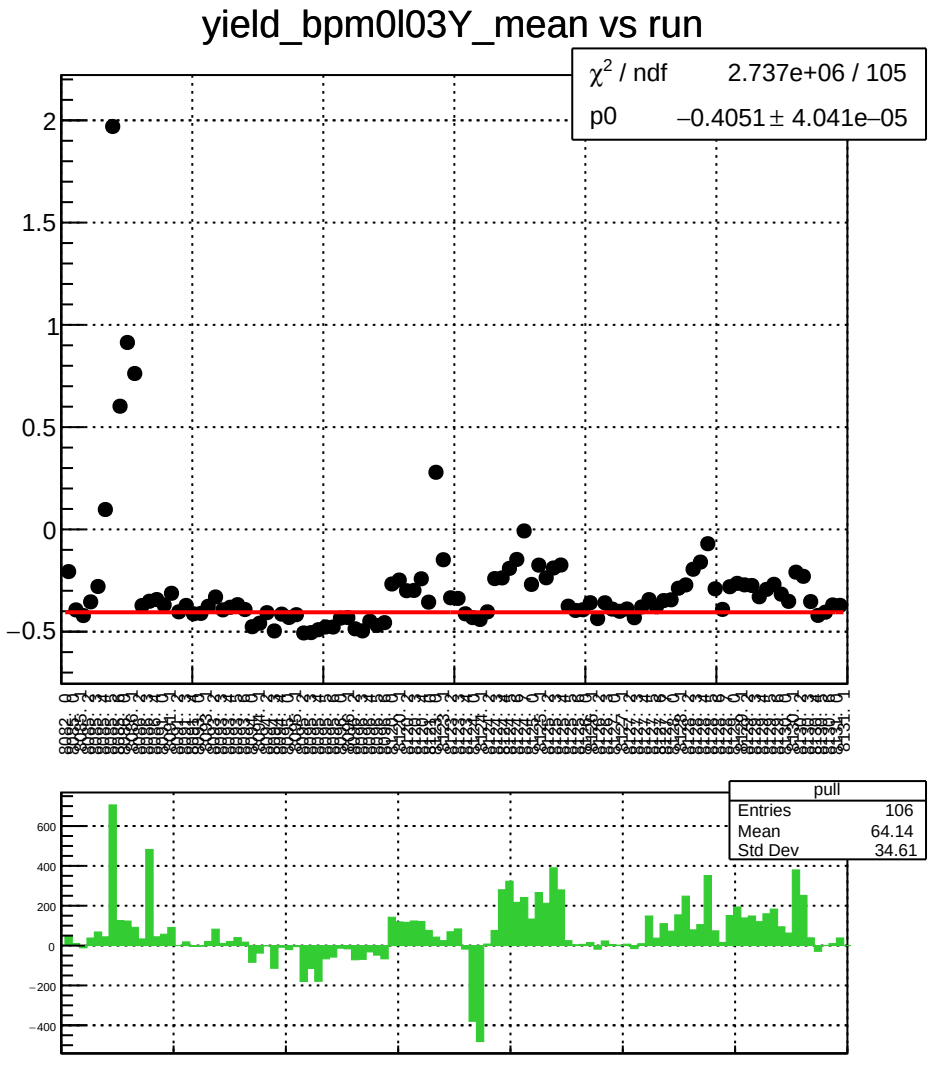

pull1D
Entries 106
Mean 0.1515
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

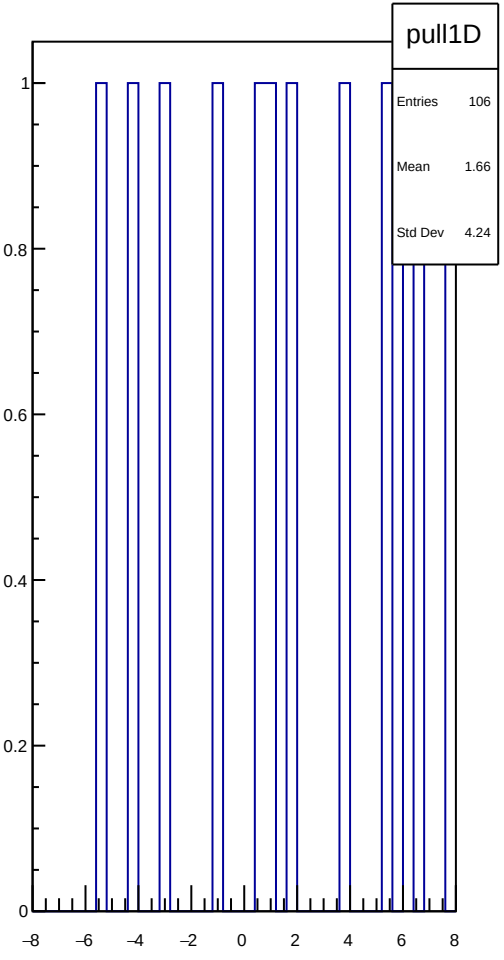

yield_bpm0l02Y_rms vs run
χ² / ndf 1.066e+05 / 105
p0 0.01483 ± 1.072e–05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

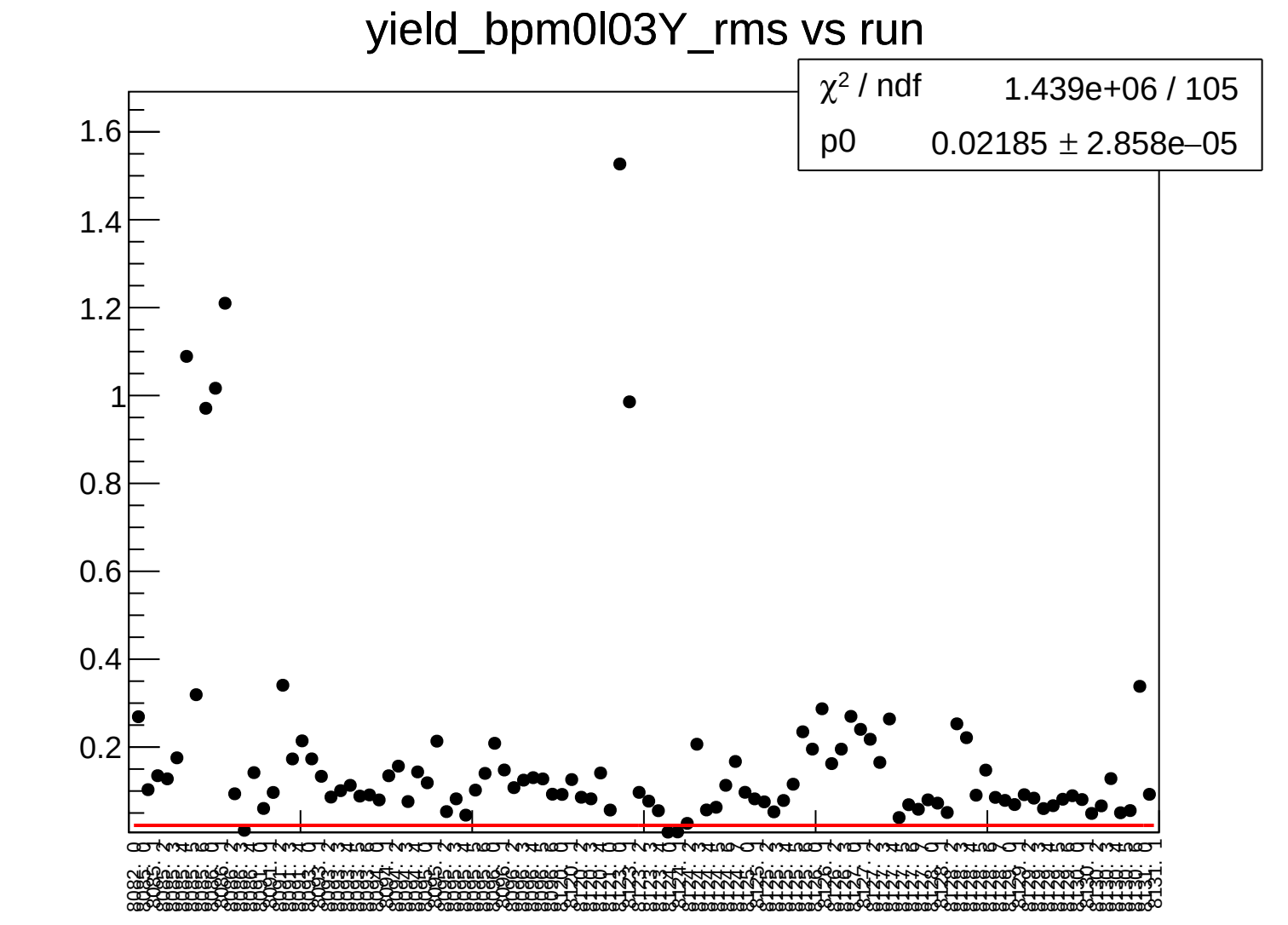

yield_bpm0l03X_mean vs run
χ² / ndf 5.837e+06 / 105
p0 −3.163 ± 3.676e−05
−0.5
−1
−1.5
−2
−2.5
−3
pull
Entries 106
Mean 44.17
Std Dev 33.7
1500
1000
500
0
−500

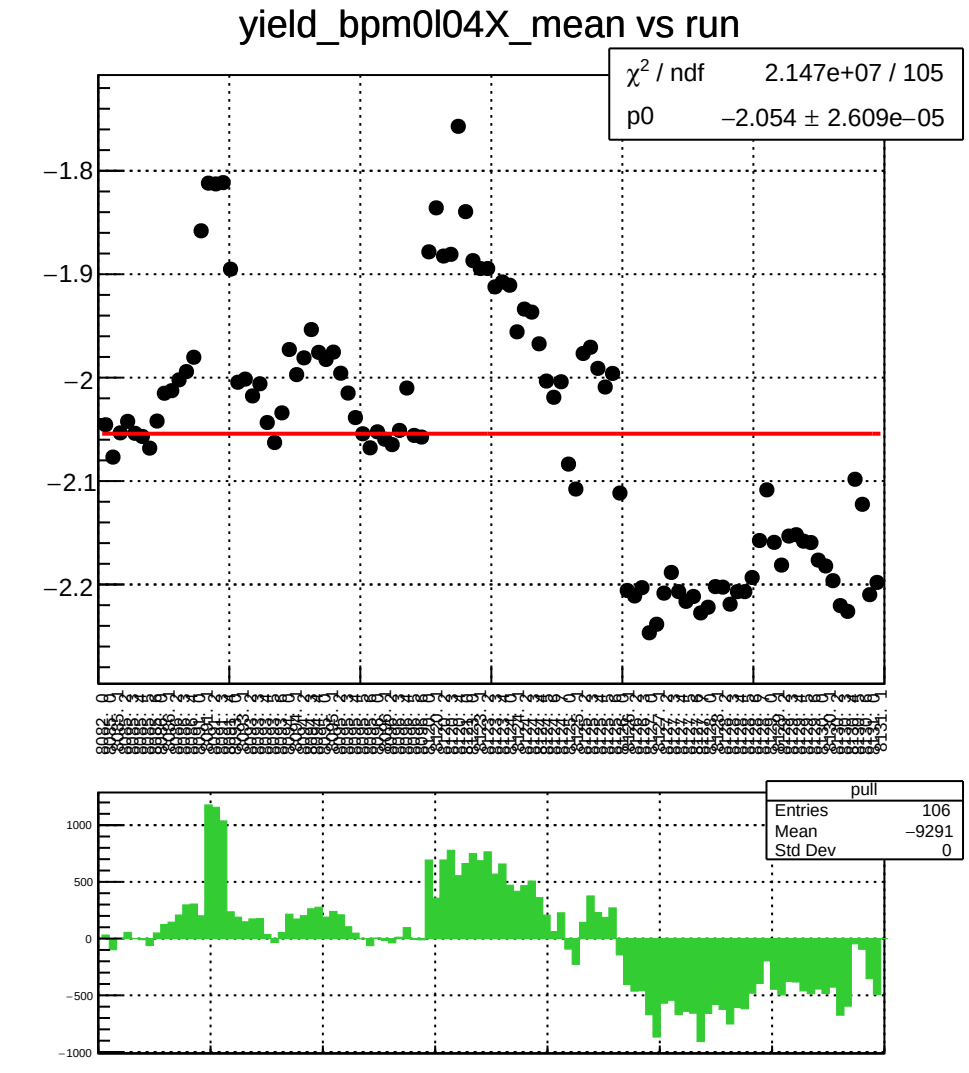

pull1D
Entries 106
Mean −2.575
Std Dev 2.947
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

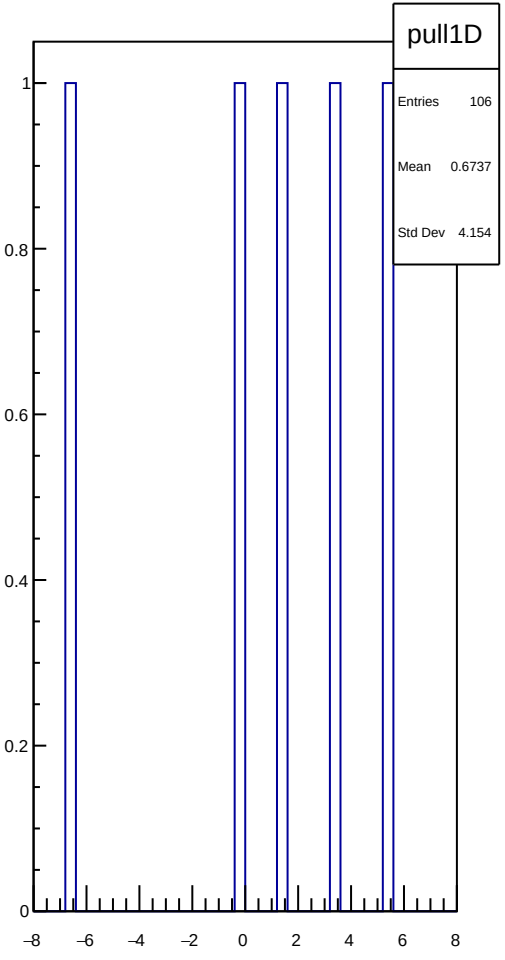

yield_bpm0l03X_rms vs run
χ² / ndf 1.503e+06 / 105
p0 0.01875 ± 2.599e–05
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

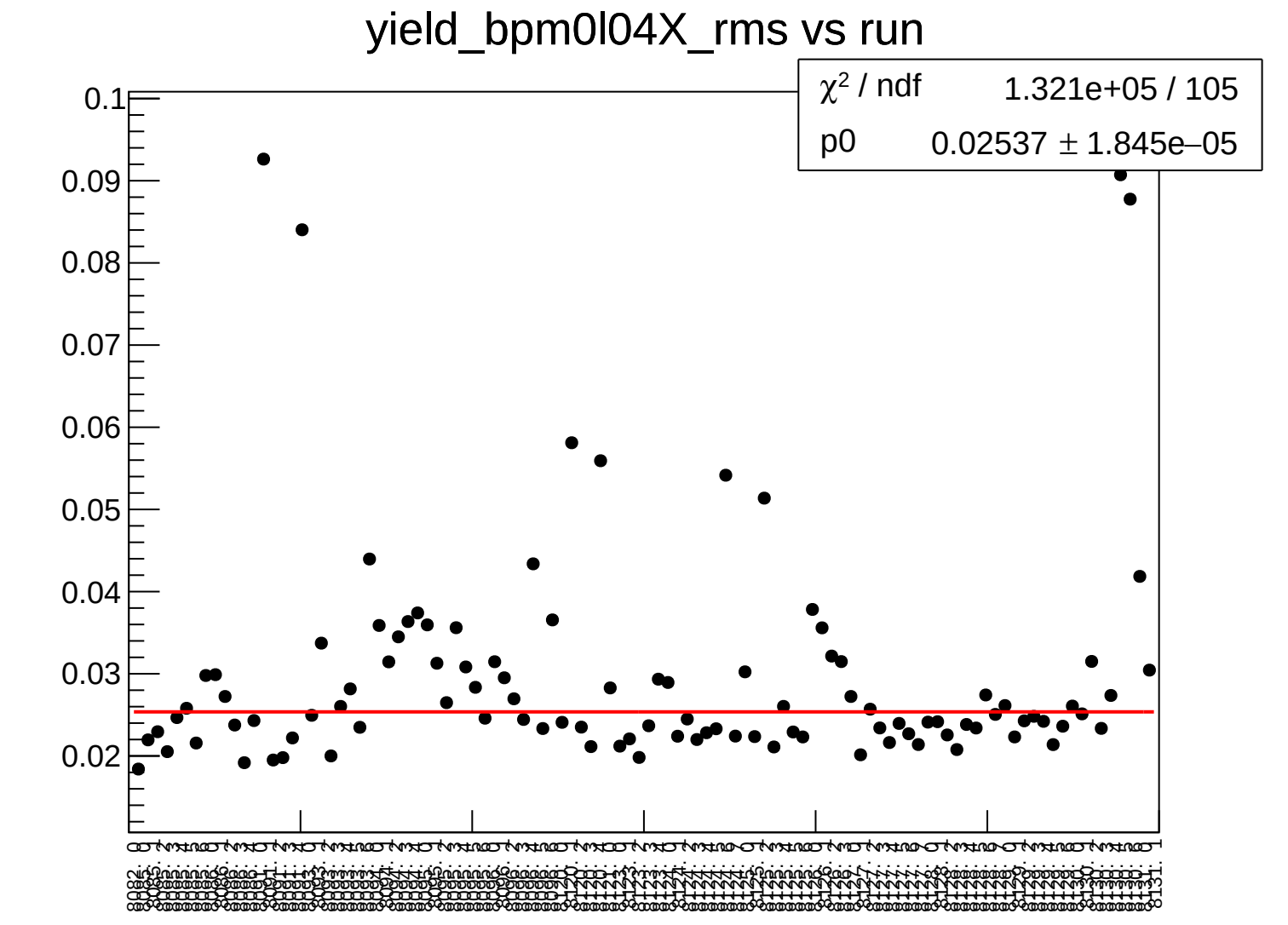

yield_bpm0l03Y_mean vs run
χ² / ndf 2.737e+06 / 105
p0 −0.4051 ± 4.041e−05
pull
Entries 106
Mean 64.14
Std Dev 34.61

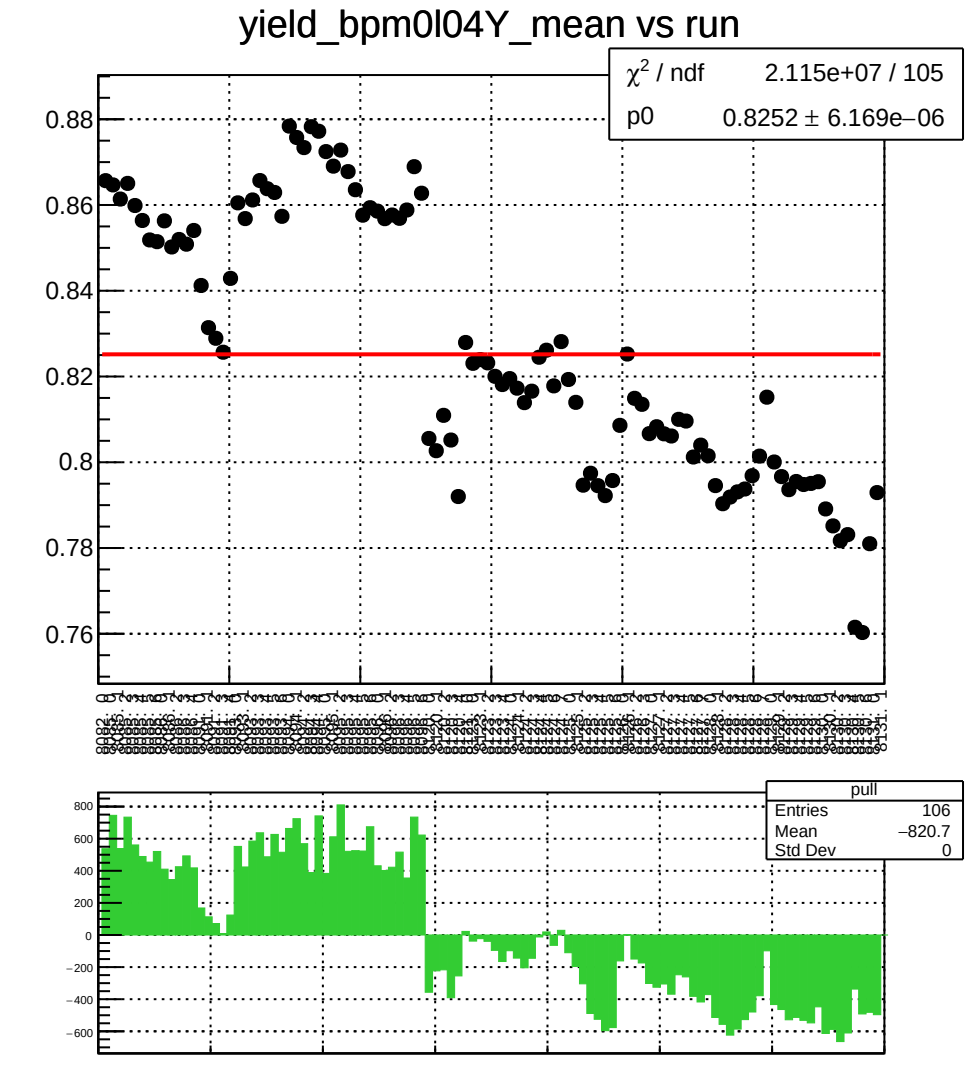

pull1D
Entries 106
Mean 1.66
Std Dev 4.24

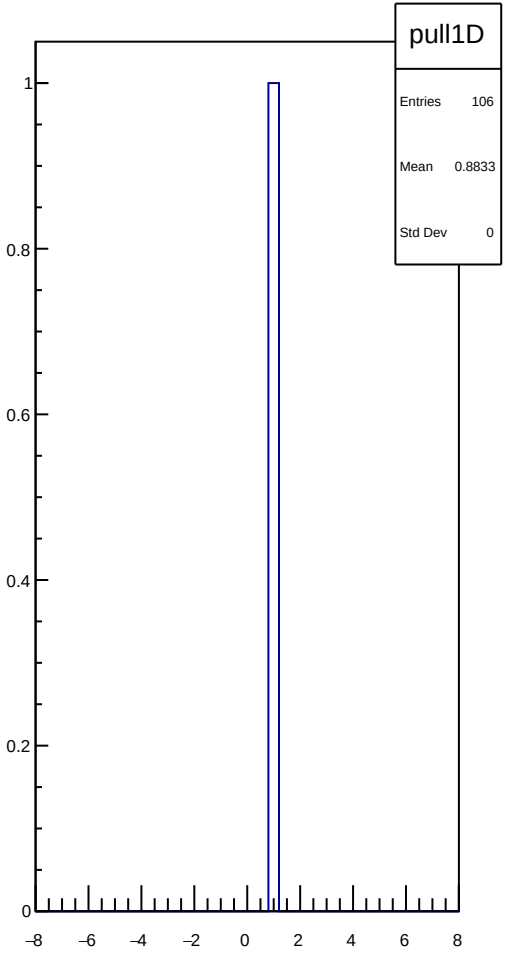

yield_bpm0l03Y_rms vs run
χ² / ndf 1.439e+06 / 105
p0 0.02185 ± 2.858e–05
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

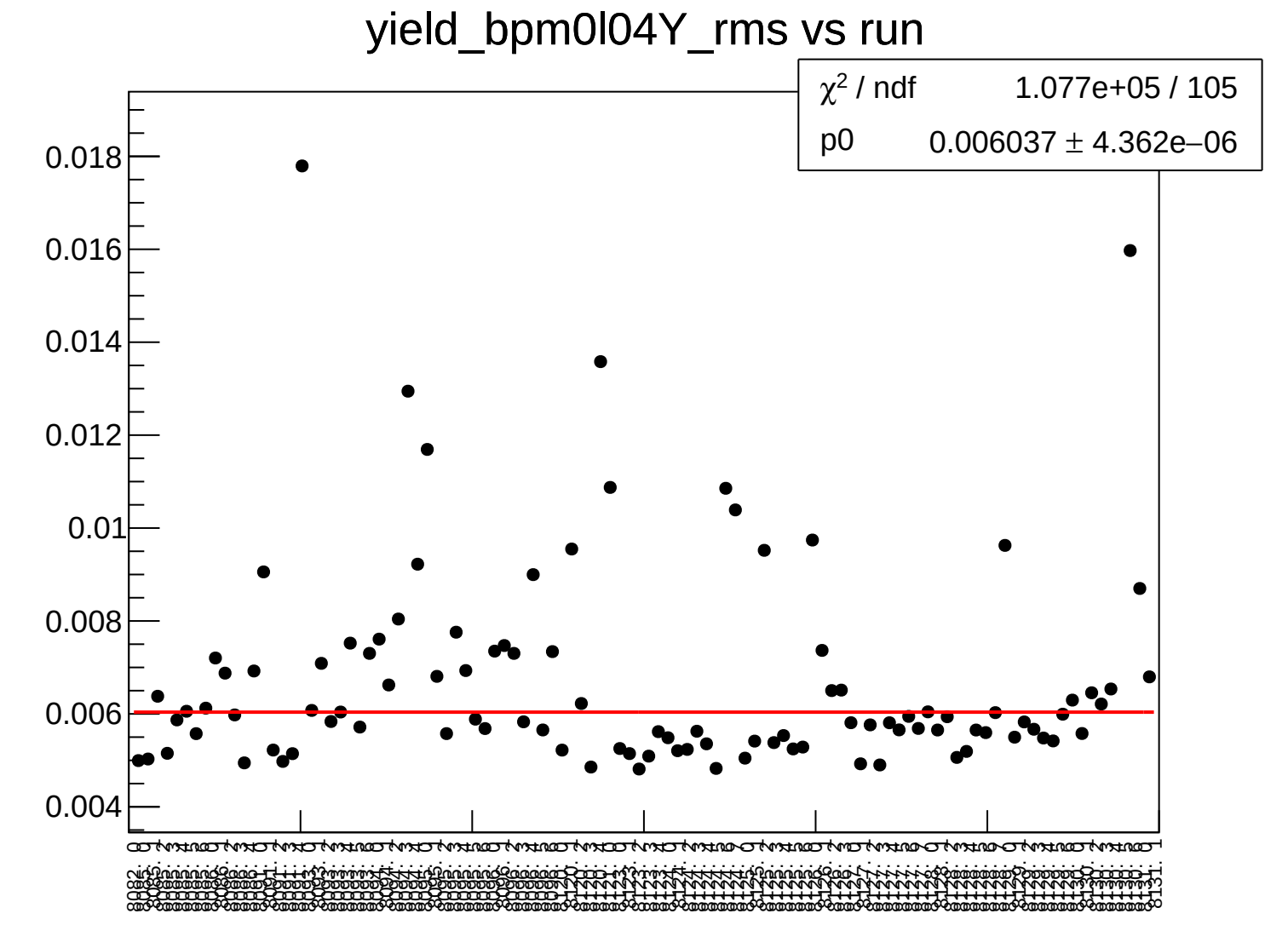

yield_bpm0l04X_mean vs run
χ² / ndf 2.147e+07 / 105
p0 −2.054 ± 2.609e−05
−1.8
−1.9
−2
−2.1
−2.2
pull
Entries 106
Mean −9291
Std Dev 0
1000
500
0
−500
−1000

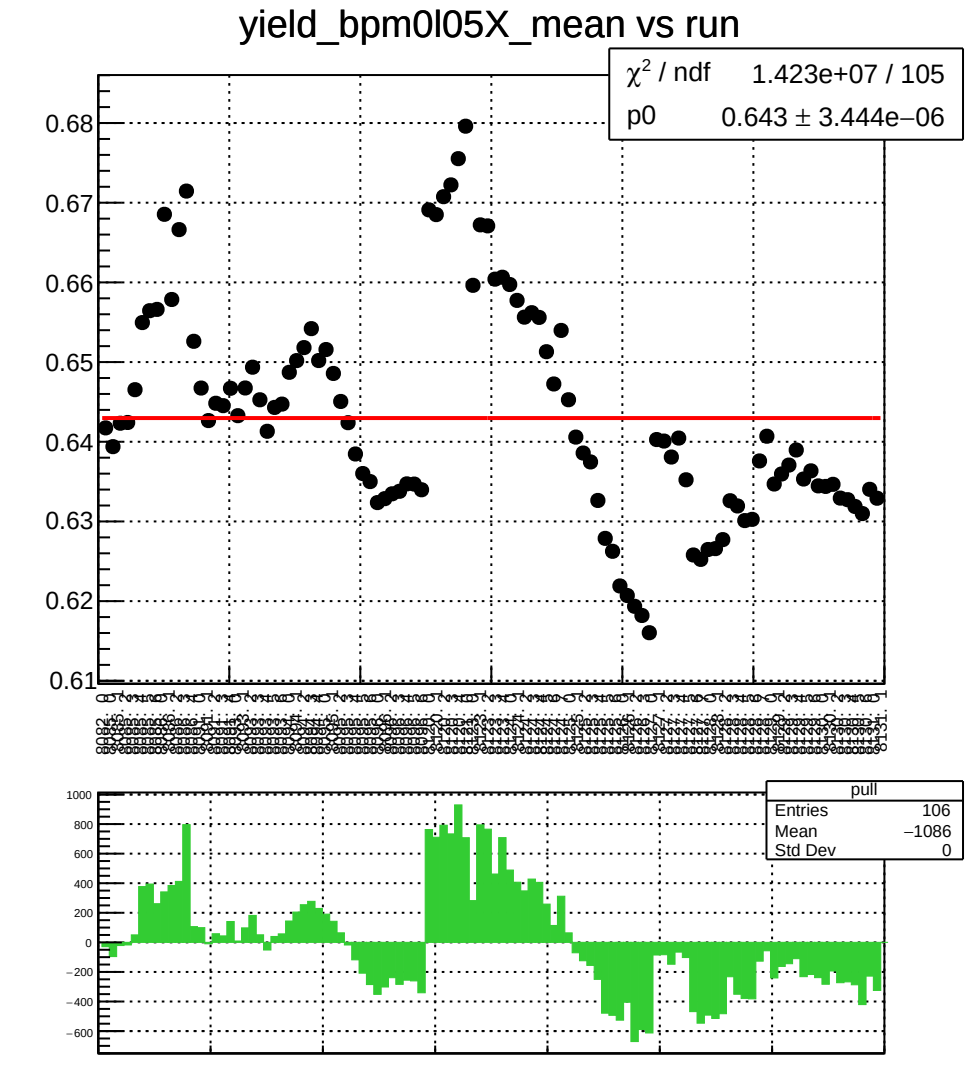

pull1D
Entries 106
Mean 0.6737
Std Dev 4.154
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

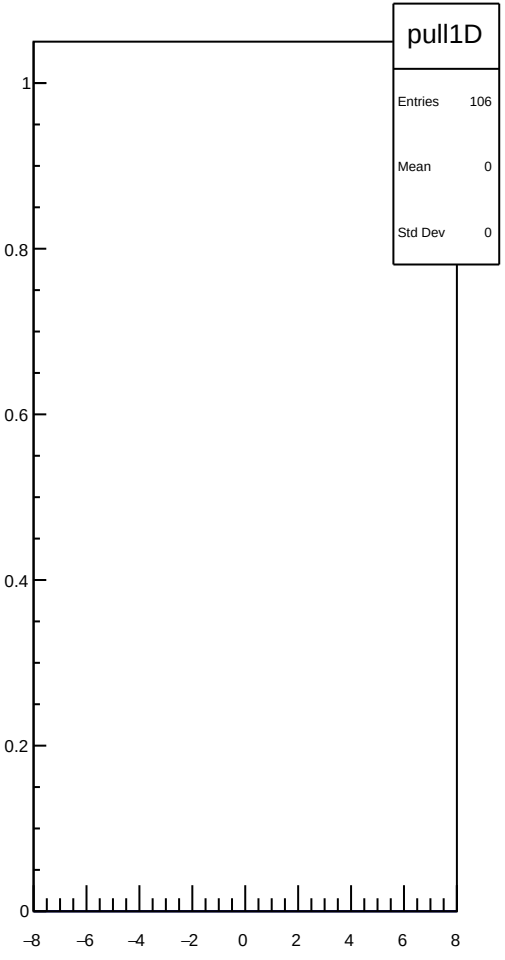

yield_bpm0l04X_rms vs run
χ² / ndf 1.321e+05 / 105
p0 0.02537 ± 1.845e−05
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02

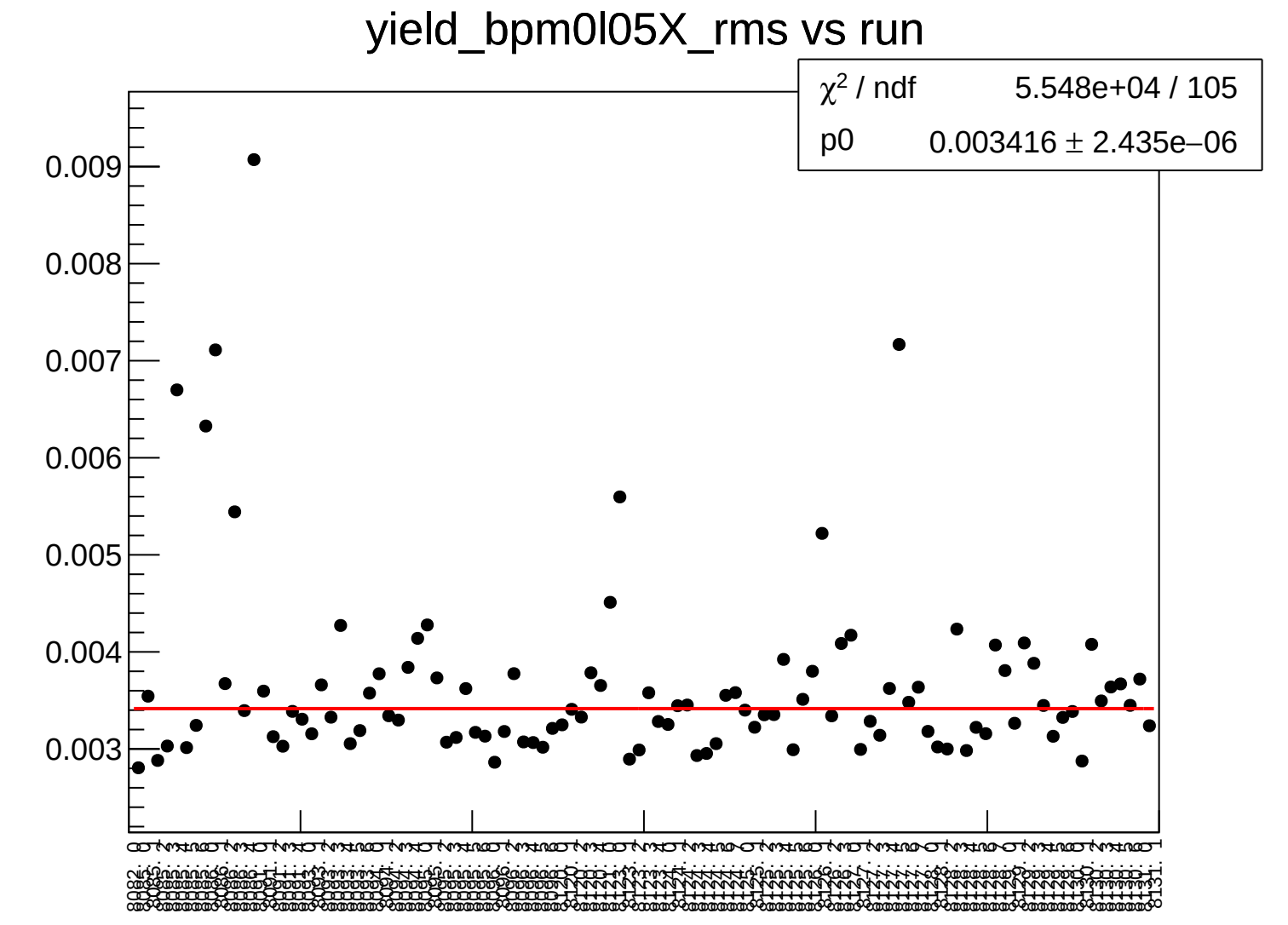

yield_bpm0l04Y_mean vs run
χ² / ndf 2.115e+07 / 105
p0 0.8252 ± 6.169e−06
0.88
0.86
0.84
0.82
0.8
0.78
0.76
pull
Entries 106
Mean −820.7
Std Dev 0
800
600
400
200
0
−200
−400
−600

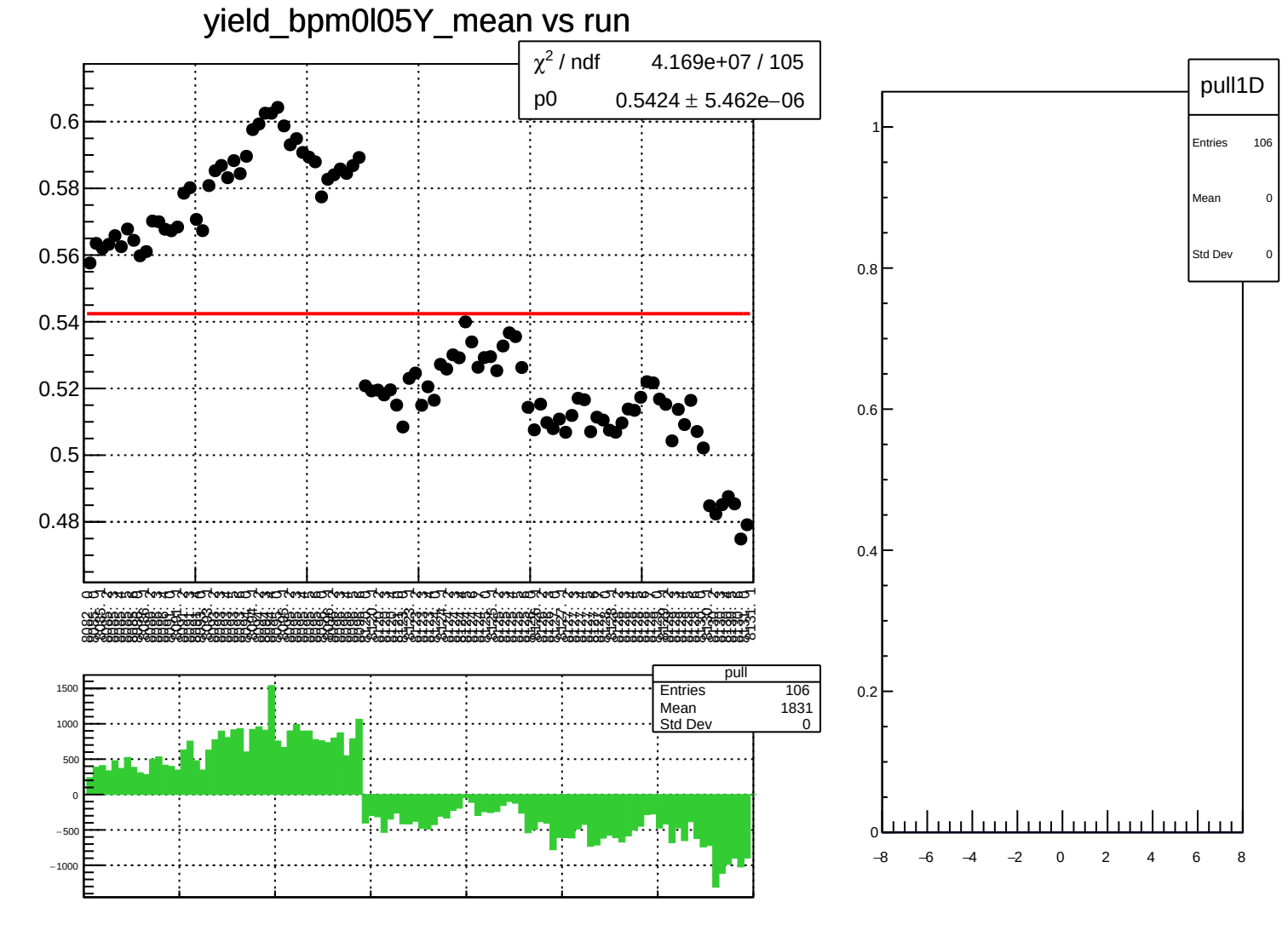

pull1D
Entries 106
Mean 0.8833
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

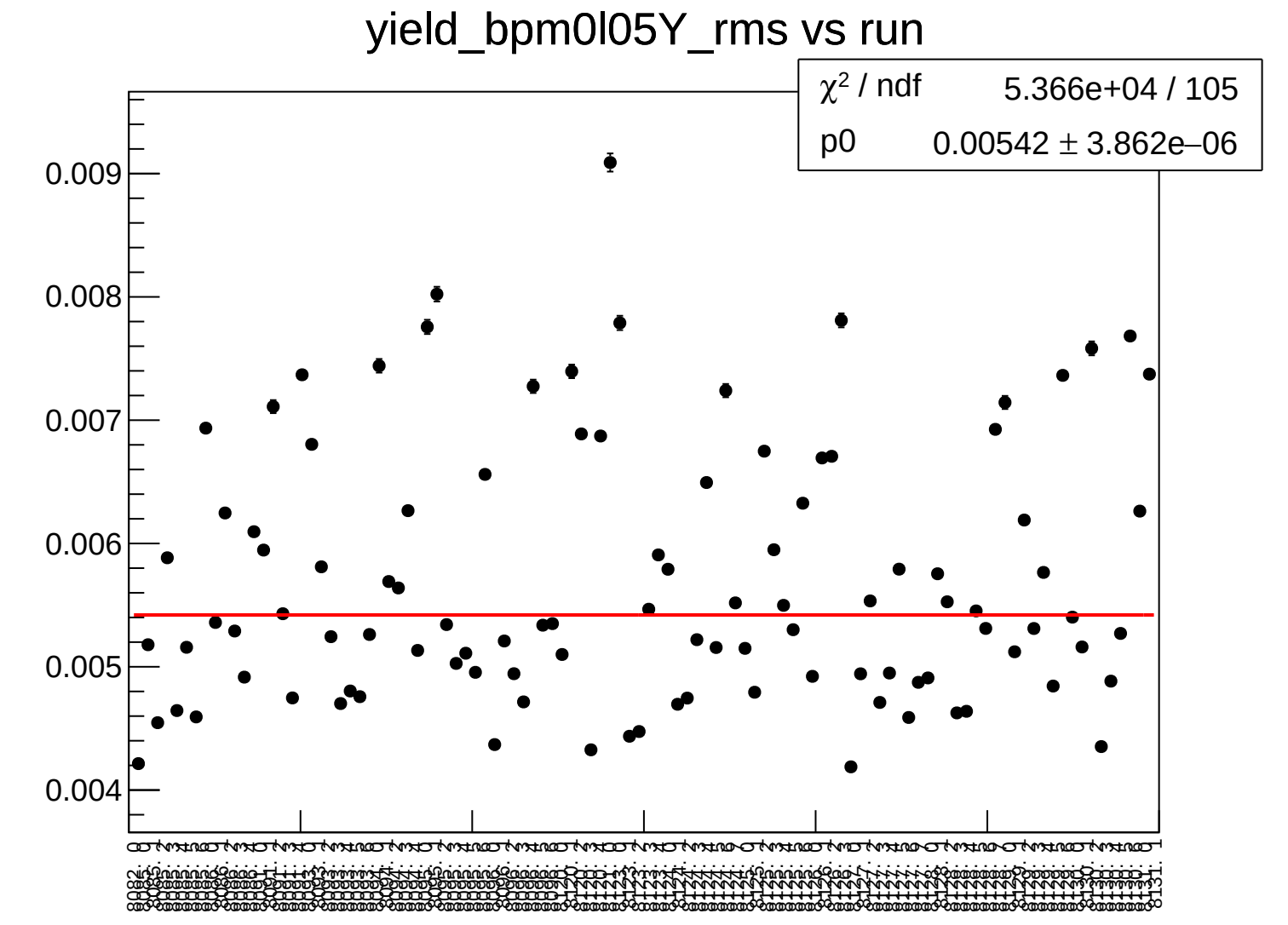

yield_bpm0l04Y_rms vs run
$\chi^2$ / ndf 1.077e+05 / 105
p0 0.006037 ± 4.362e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

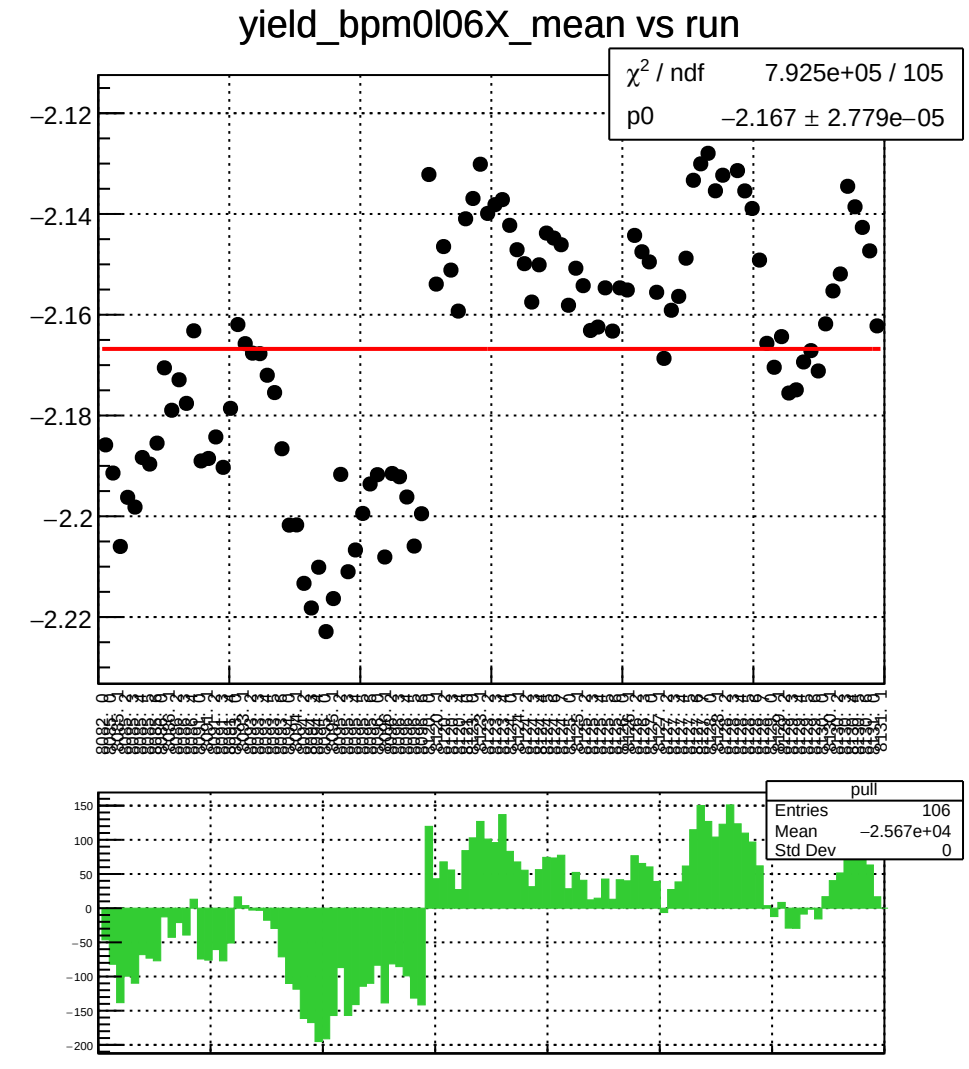

yield_bpm0l05X_mean vs run
χ² / ndf 1.423e+07 / 105
p0 0.643 ± 3.444e−06
0.68
0.67
0.66
0.65
0.64
0.63
0.62
0.61
pull
Entries 106
Mean −1086
Std Dev 0
1000
800
600
400
200
0
−200
−400
−600

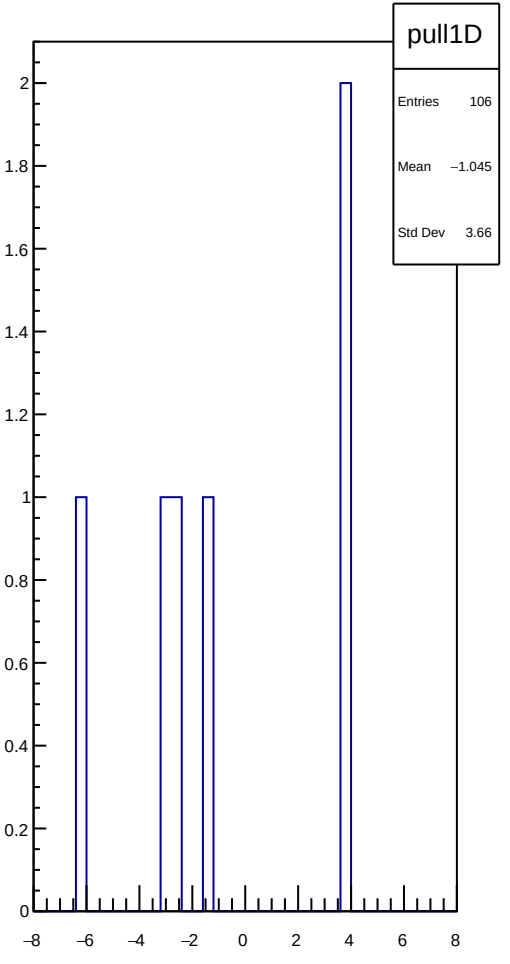

pull1D
Entries 106
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

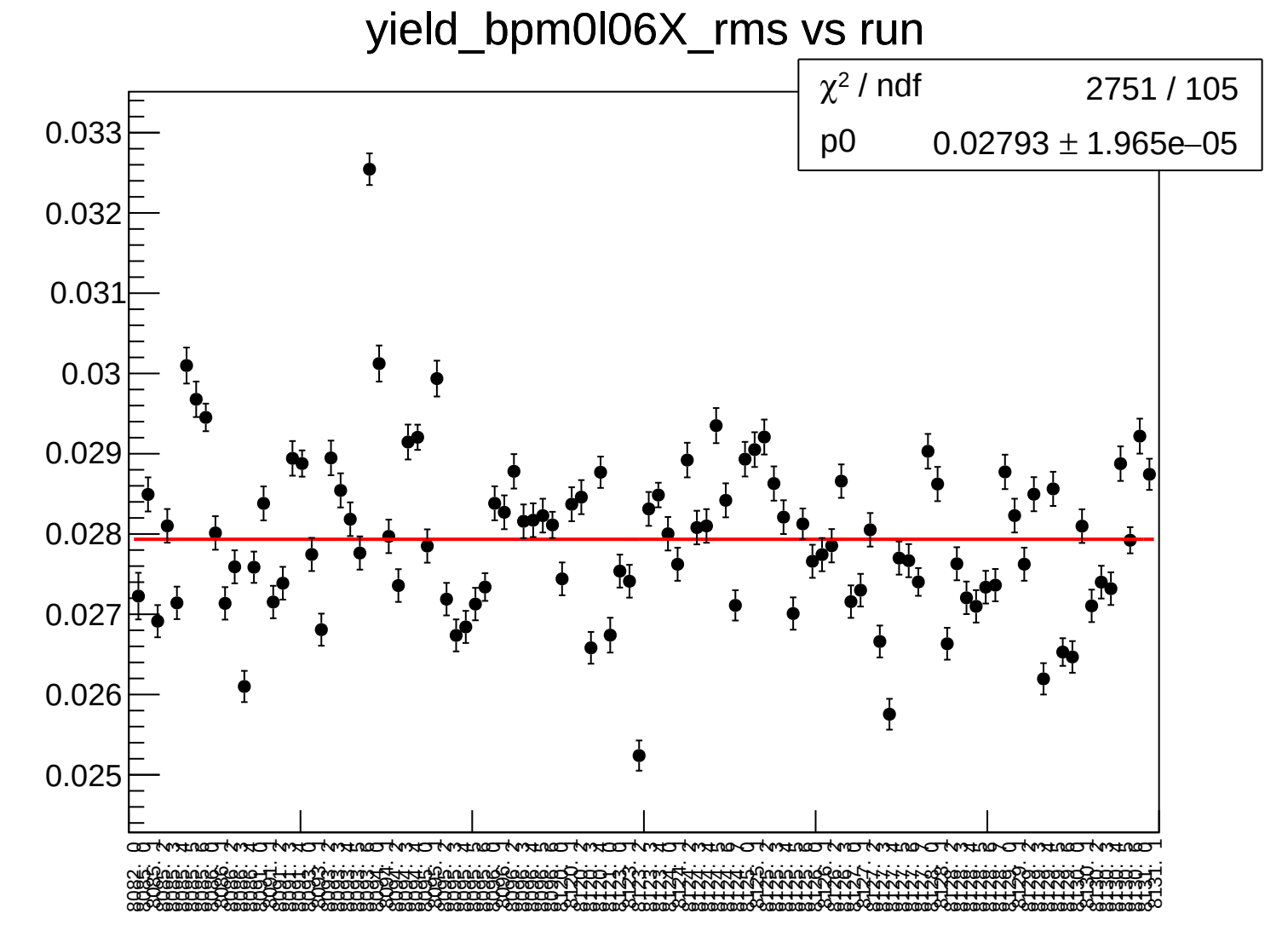

yield_bpm0l05X_rms vs run
χ² / ndf 5.548e+04 / 105
p0 0.003416 ± 2.435e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003

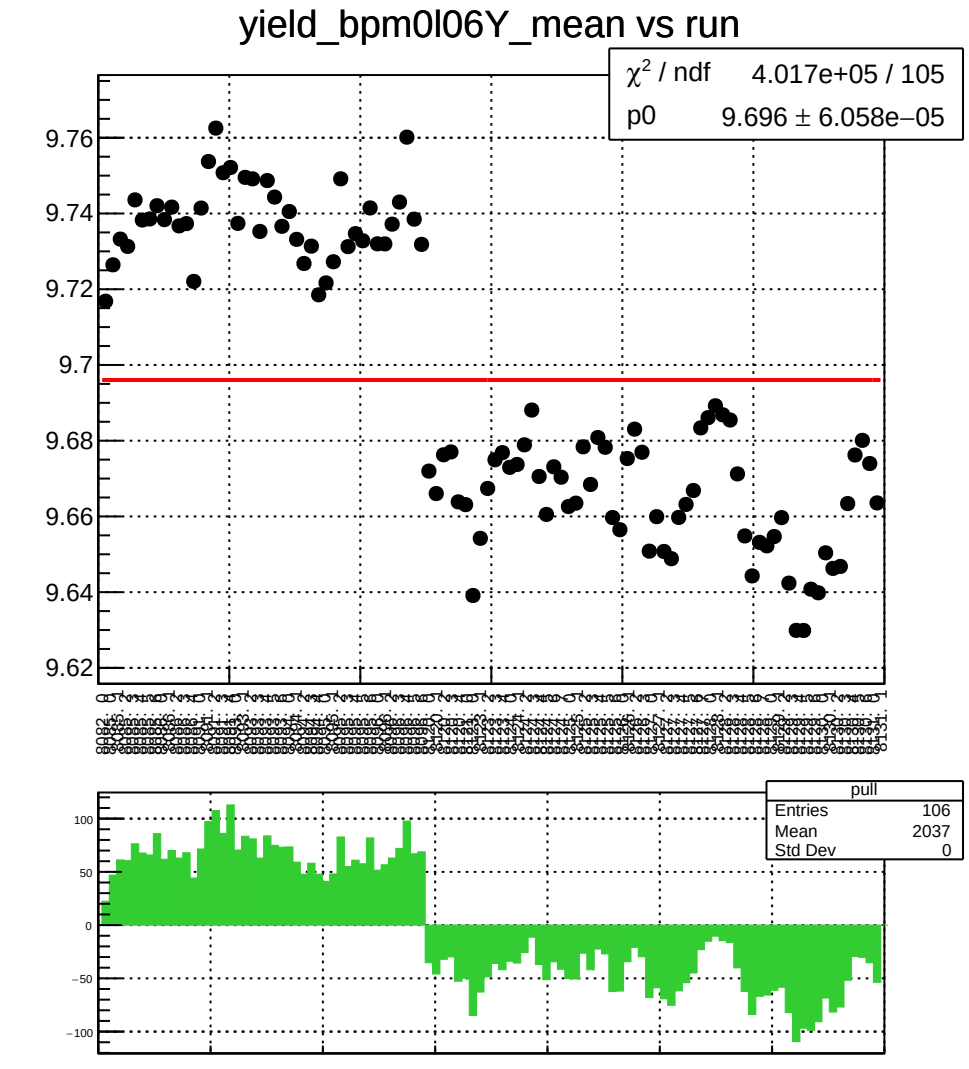

yield_bpm0l05Y_mean vs run
χ² / ndf 4.169e+07 / 105
p0 0.5424 ± 5.462e−06
0.6
0.58
0.56
0.54
0.52
0.5
0.48
pull
Entries 106
Mean 1831
Std Dev 0
1500
1000
500
0
−500
−1000
pull1D
Entries 106
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

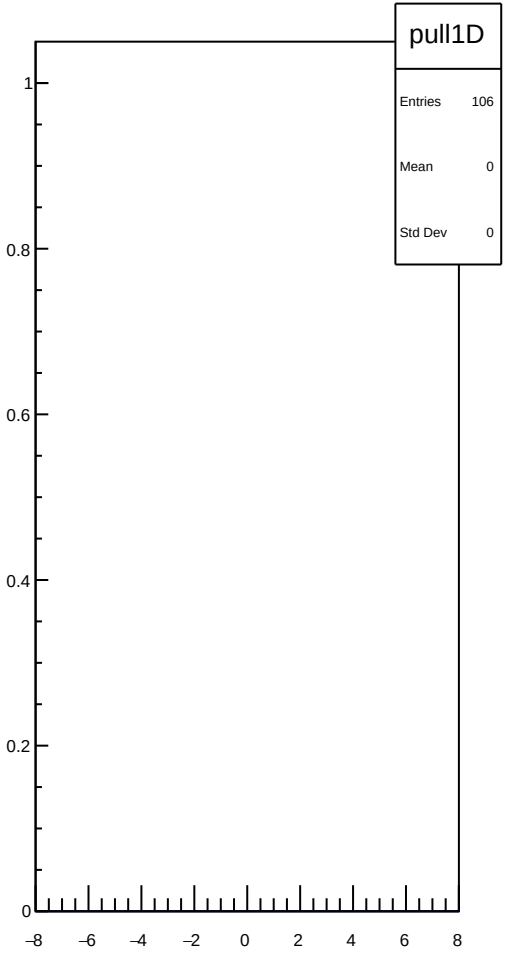

yield_bpm0l05Y_rms vs run
χ² / ndf 5.366e+04 / 105
p0 0.00542 ± 3.862e–06
0.009
0.008
0.007
0.006
0.005
0.004

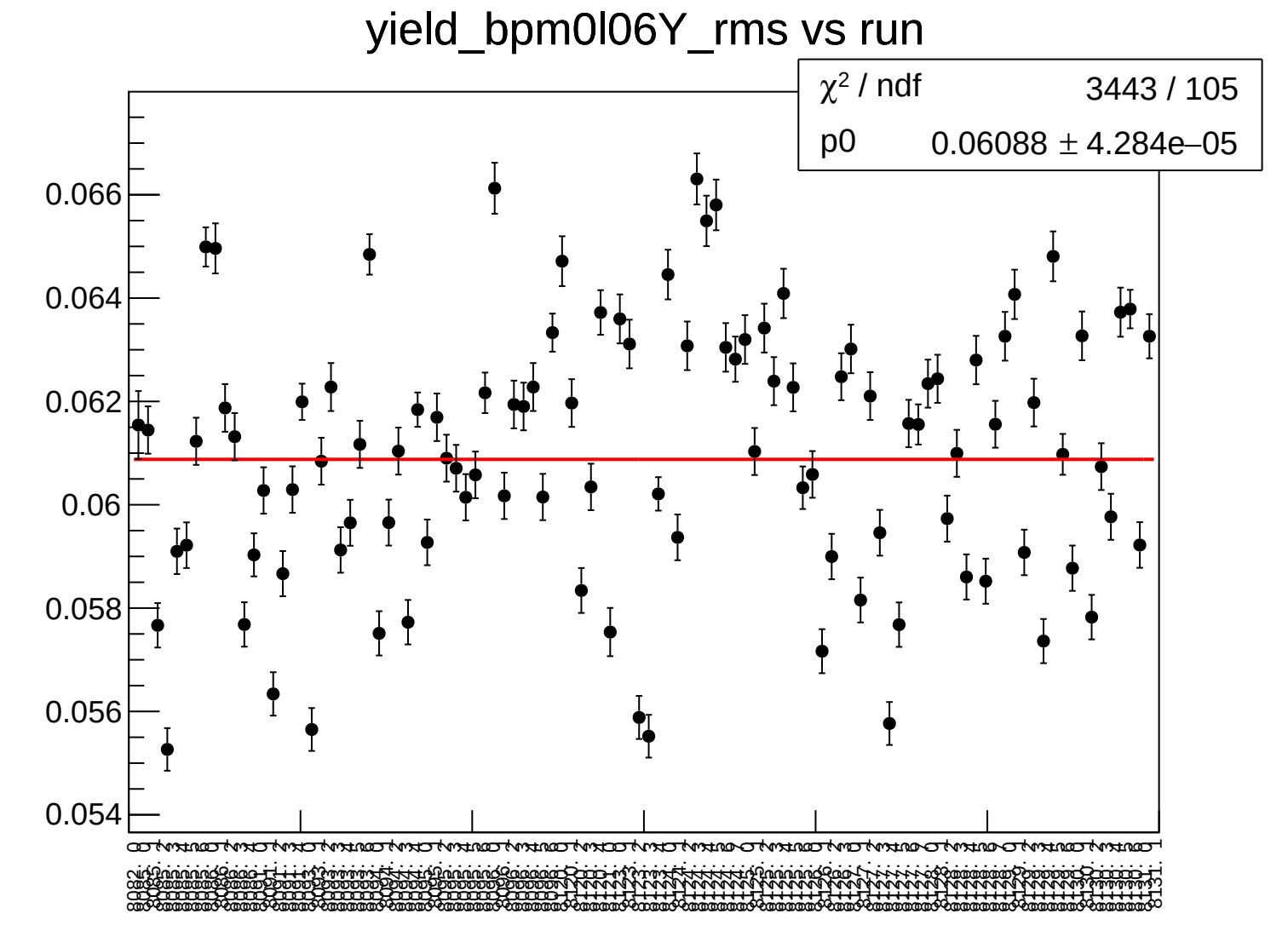

yield_bpm0l06X_mean vs run
χ² / ndf 7.925e+05 / 105
p0 −2.167 ± 2.779e−05
−2.12
−2.14
−2.16
−2.18
−2.2
−2.22
pull
Entries 106
Mean −2.567e+04
Std Dev 0
150
100
50
0
−50
−100
−150
−200

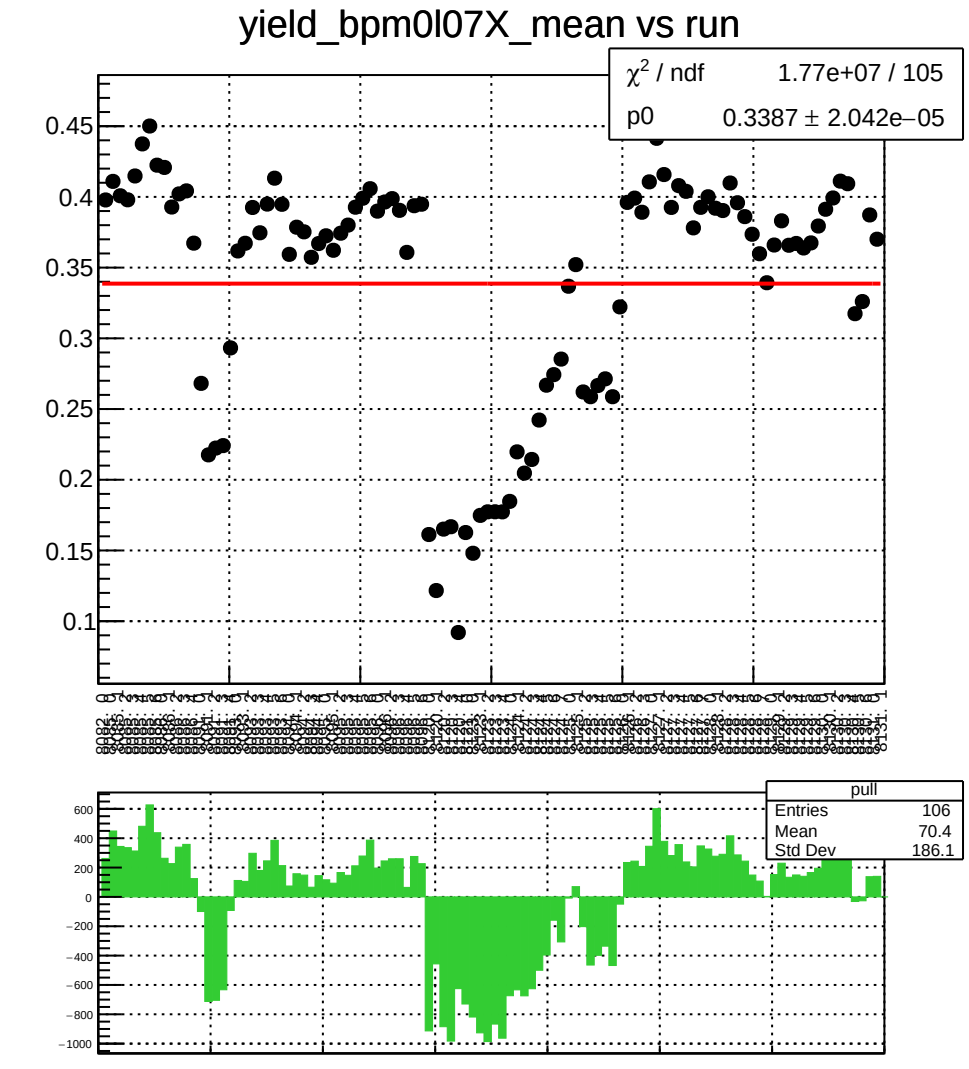

pull1D
Entries 106
Mean −1.045
Std Dev 3.66
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

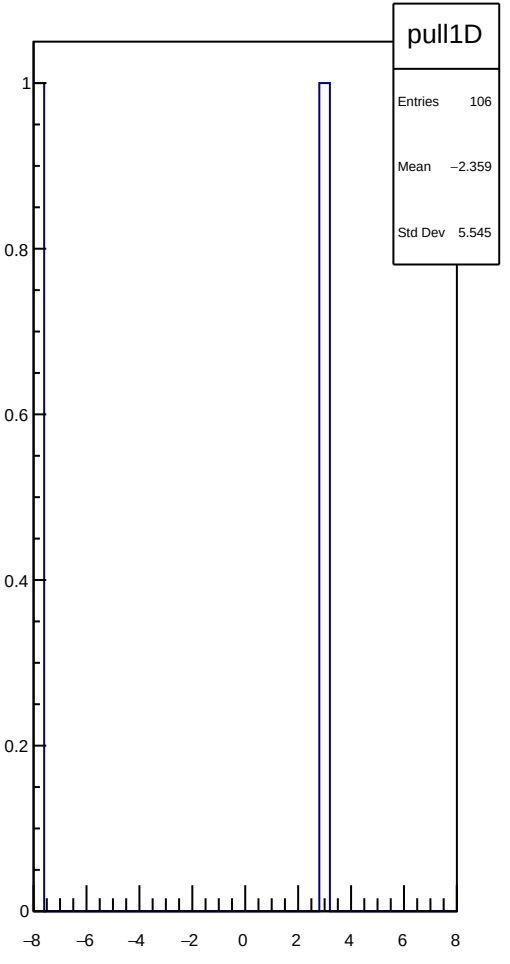

yield_bpm0l06X_rms vs run
χ² / ndf 2751 / 105
p0 0.02793 ± 1.965e−05
0.033
0.032
0.031
0.03
0.029
0.028
0.027
0.026
0.025

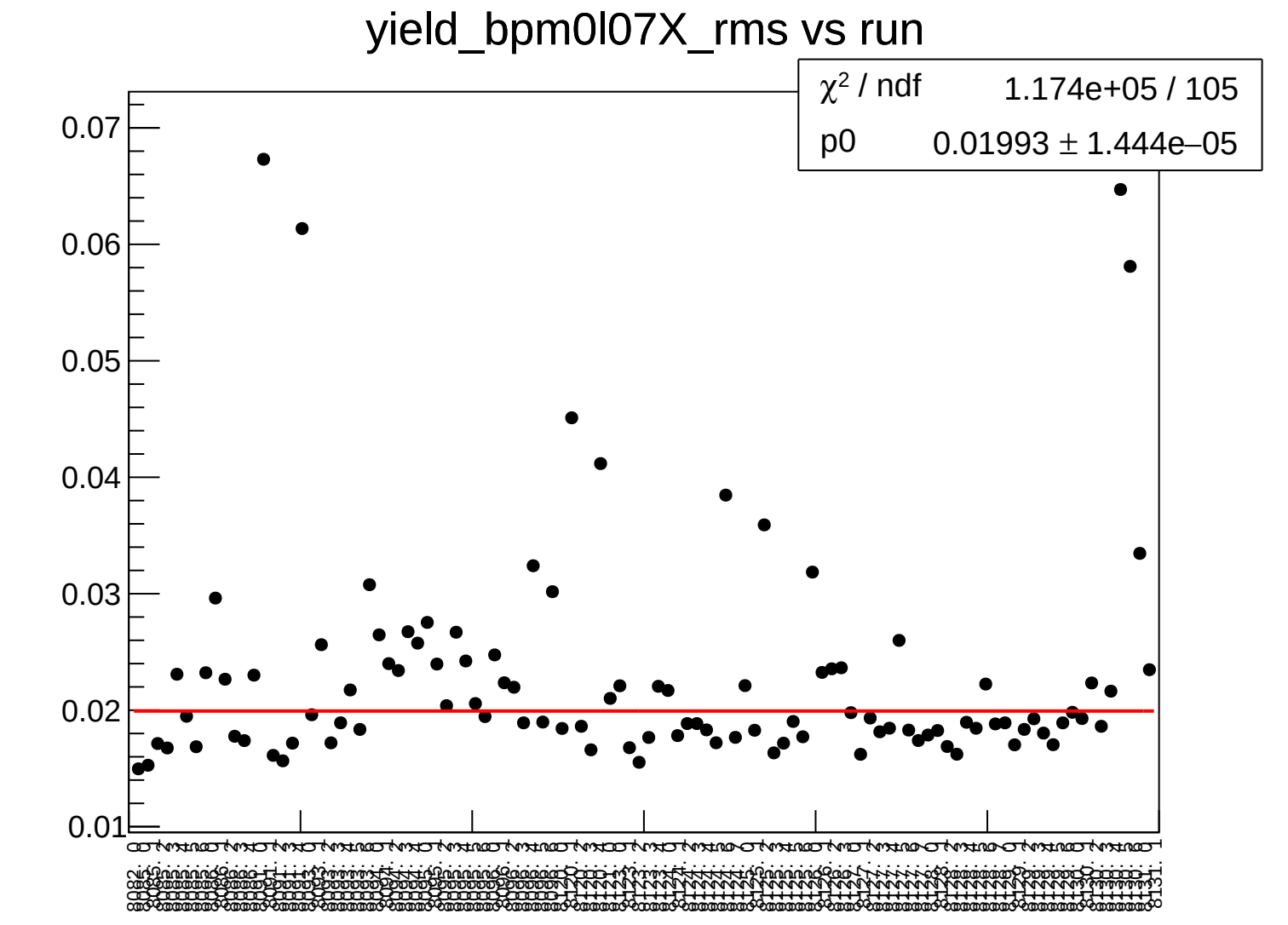

yield_bpm0l06Y_mean vs run
χ² / ndf 4.017e+05 / 105
p0 9.696 ± 6.058e−05
9.76
9.74
9.72
9.7
9.68
9.66
9.64
9.62
pull
Entries 106
Mean 2037
Std Dev 0
100
50
0
−50
−100

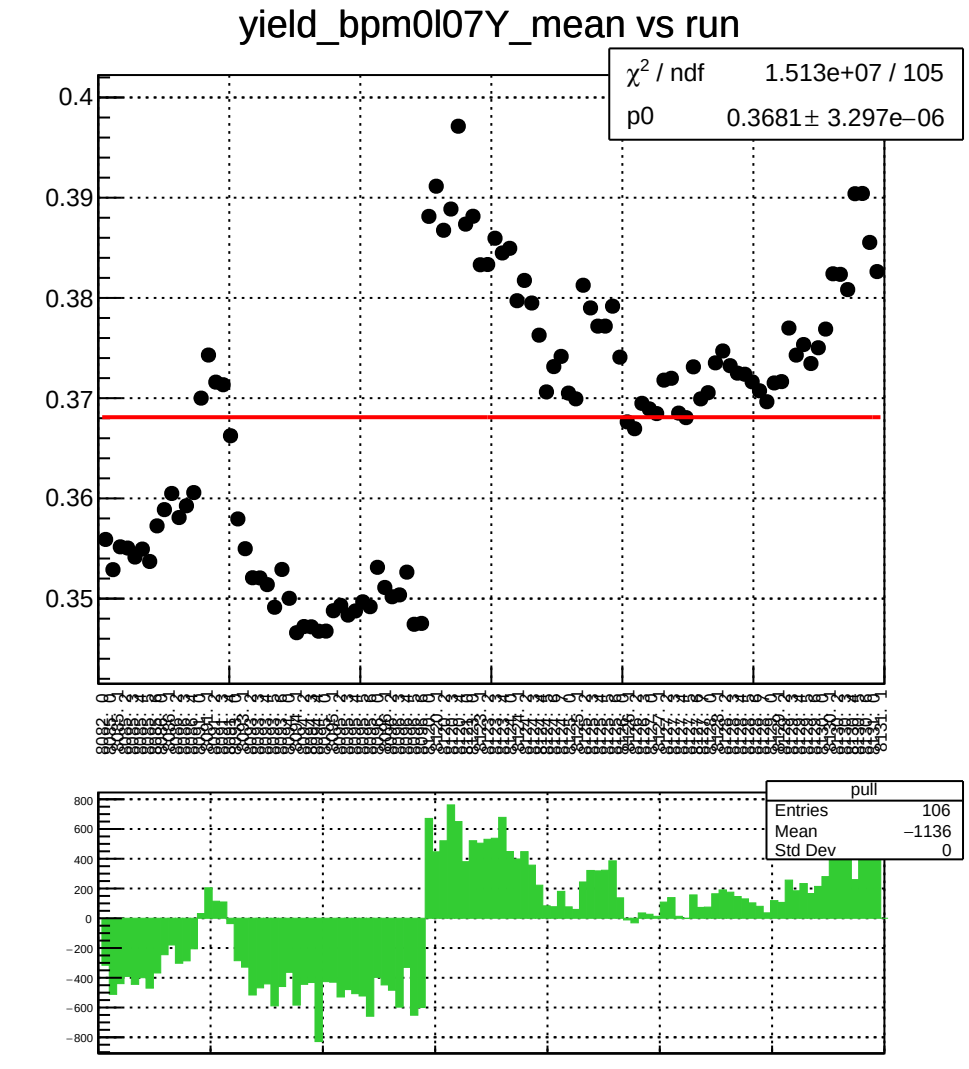

pull1D
Entries 106
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

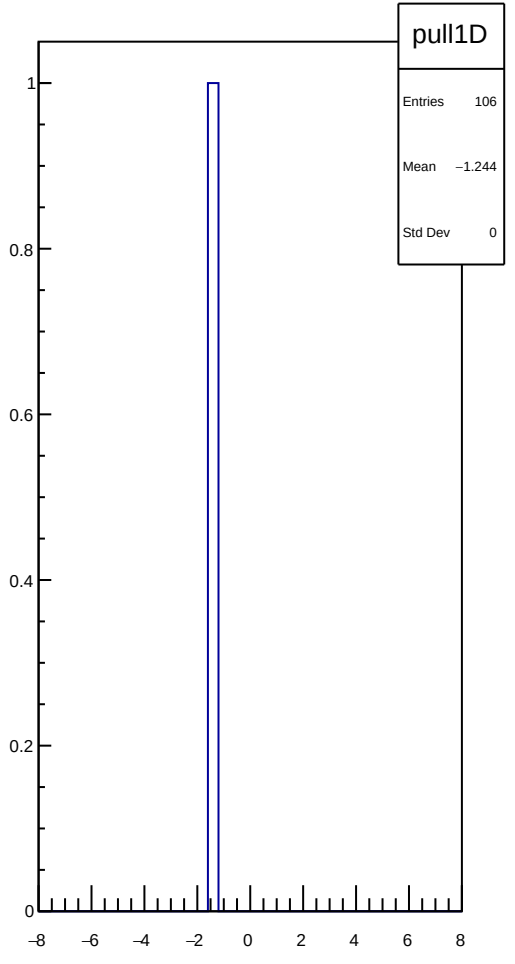

yield_bpm0l06Y_rms vs run
χ² / ndf 3443 / 105
p0 0.06088 ± 4.284e–05
0.066
0.064
0.062
0.06
0.058
0.056
0.054

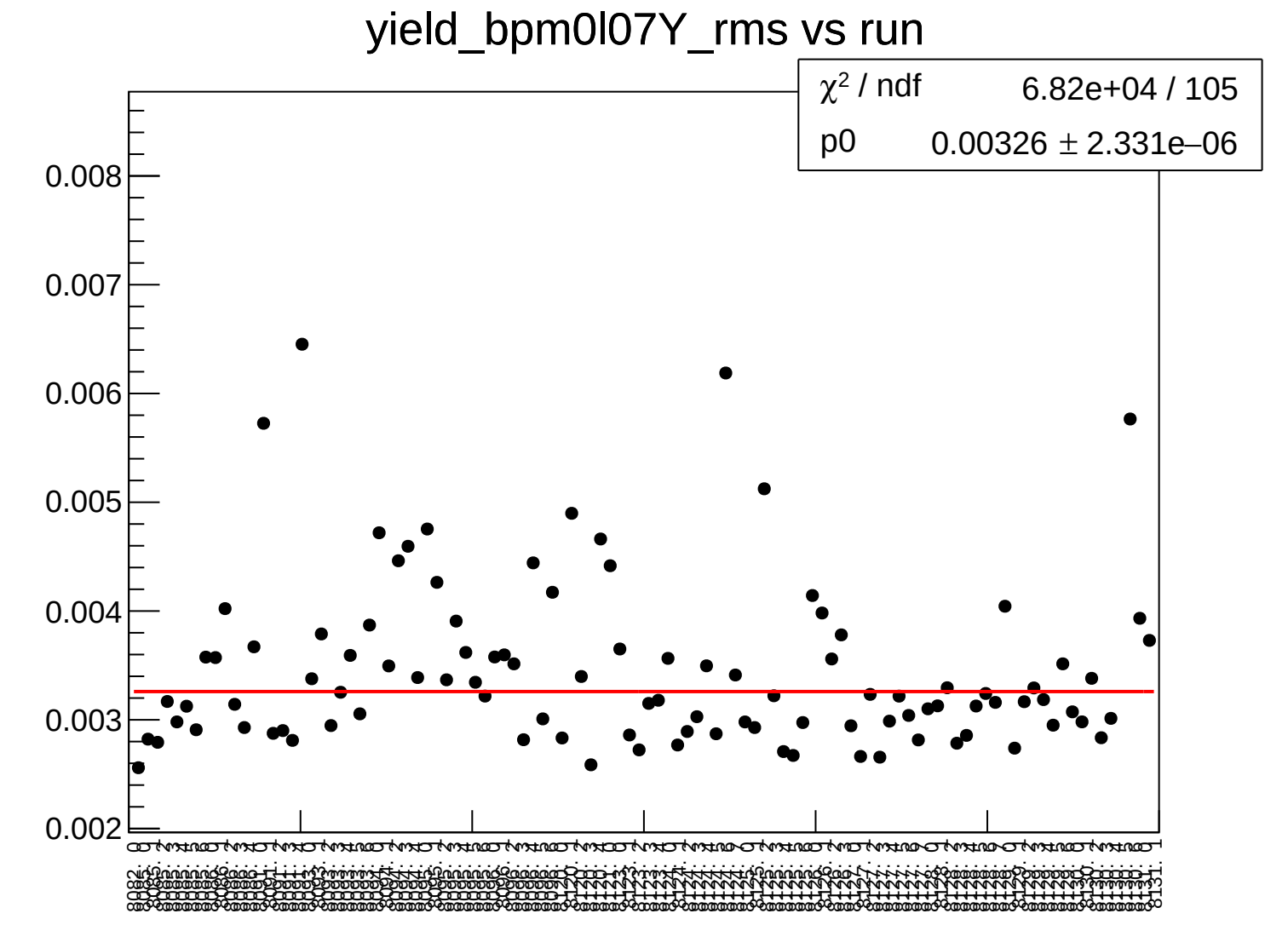

yield_bpm0l07X_mean vs run
χ² / ndf 1.77e+07 / 105
p0 0.3387 ± 2.042e−05
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
pull
Entries 106
Mean 70.4
Std Dev 186.1
600
400
200
0
−200
−400
−600
−800
−1000

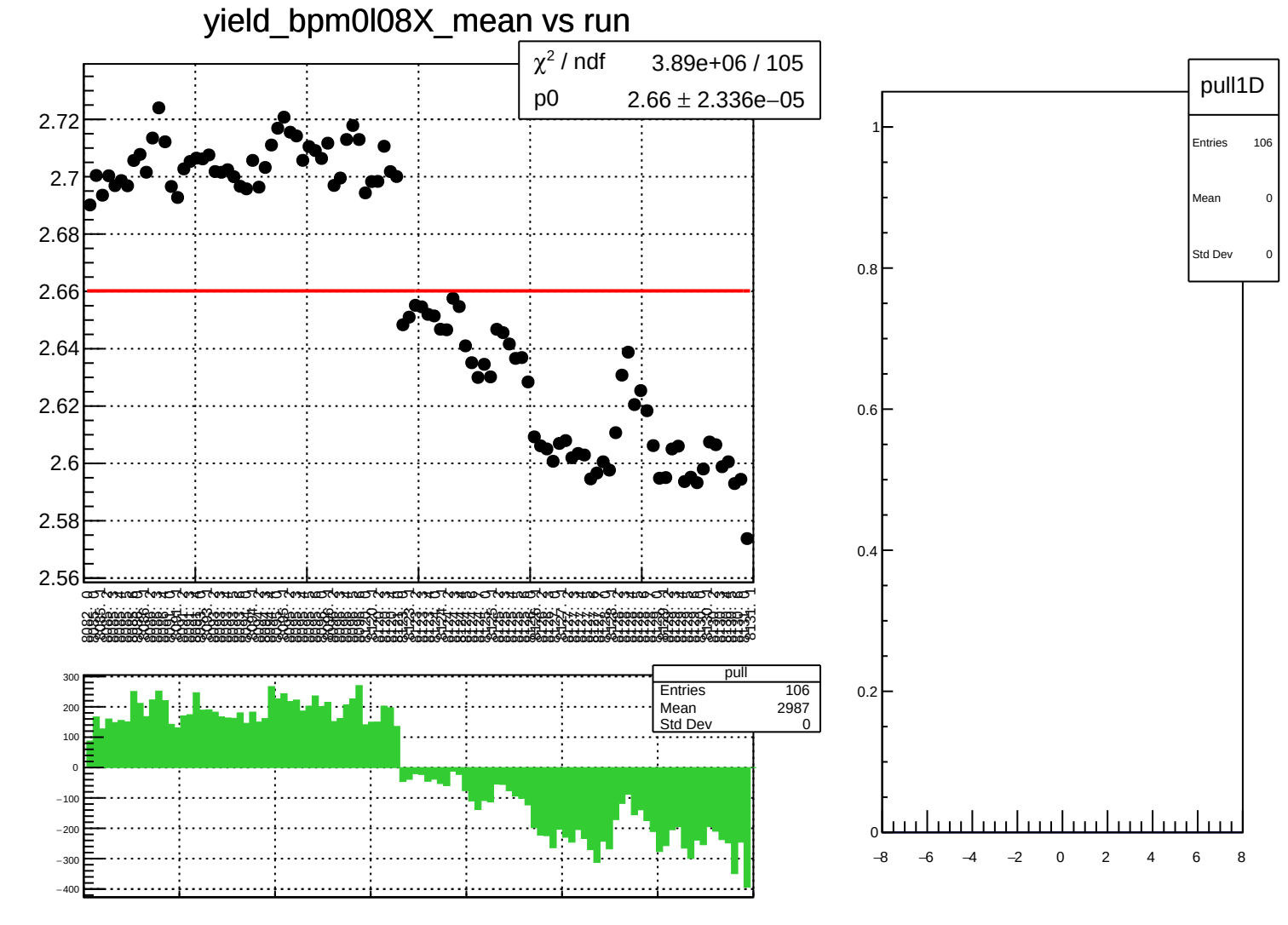

pull1D
Entries 106
Mean −2.359
Std Dev 5.545
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

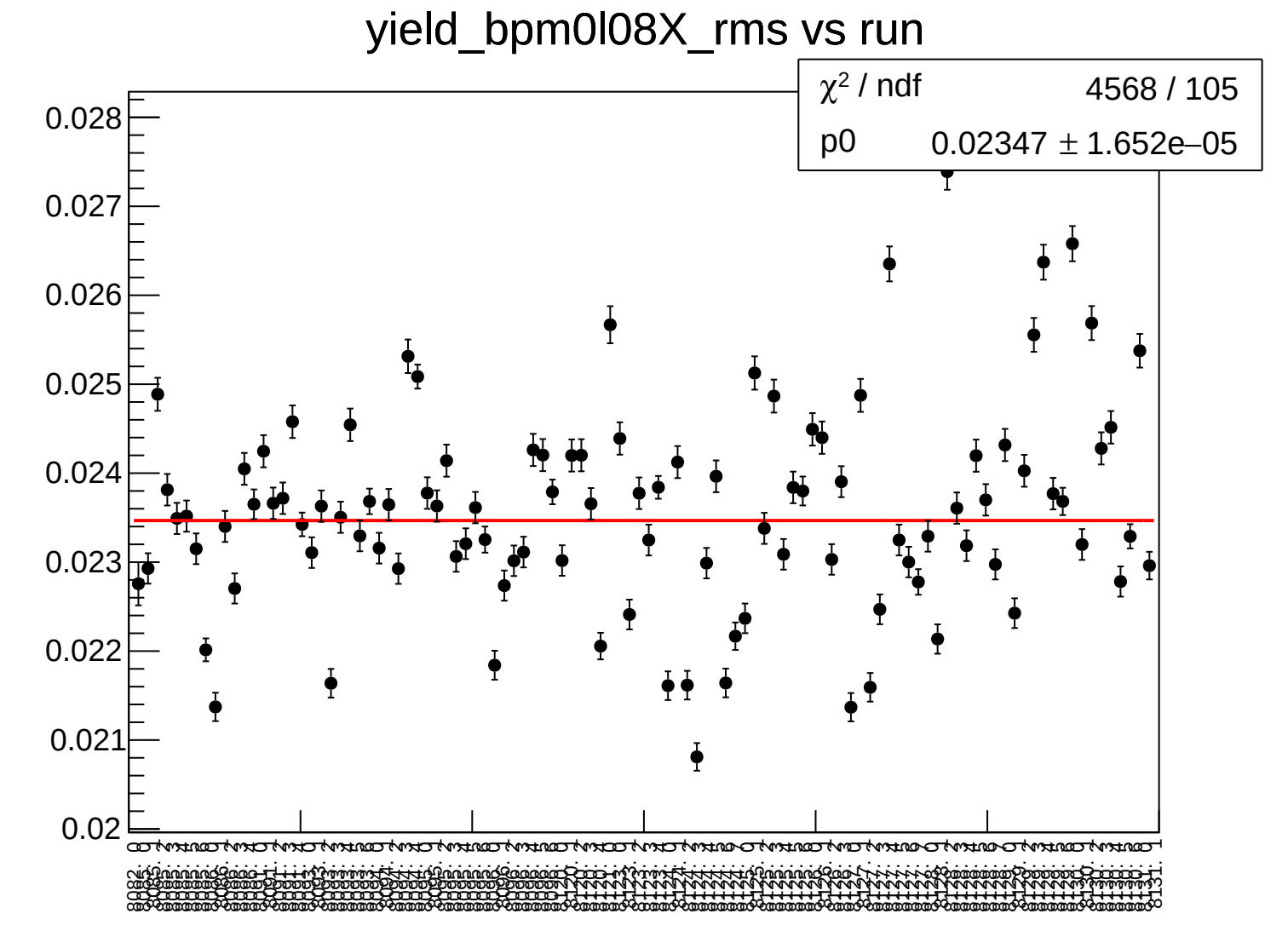

yield_bpm0l07X_rms vs run
χ² / ndf 1.174e+05 / 105
p0 0.01993 ± 1.444e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

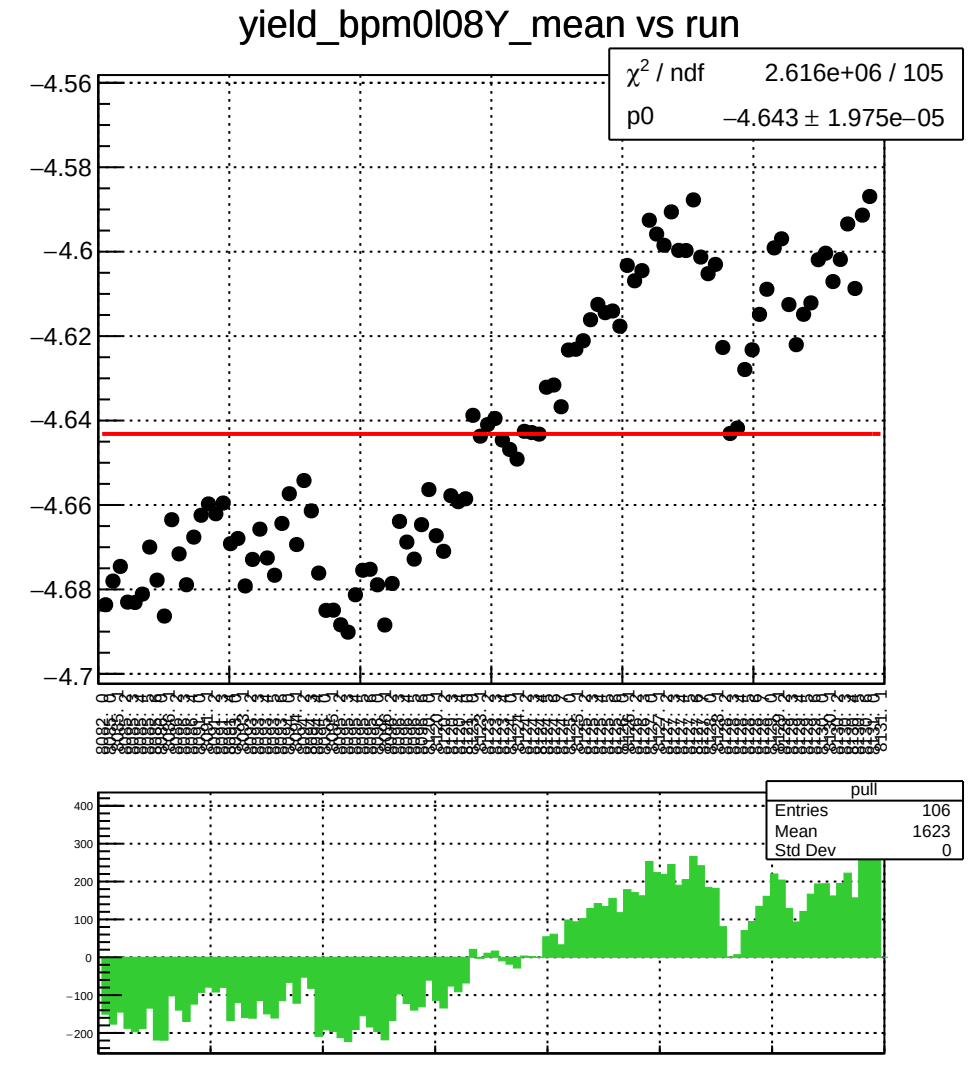

yield_bpm0l07Y_mean vs run
χ² / ndf 1.513e+07 / 105
p0 0.3681 ± 3.297e−06
0.4
0.39
0.38
0.37
0.36
0.35
pull
Entries 106
Mean −1136
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800

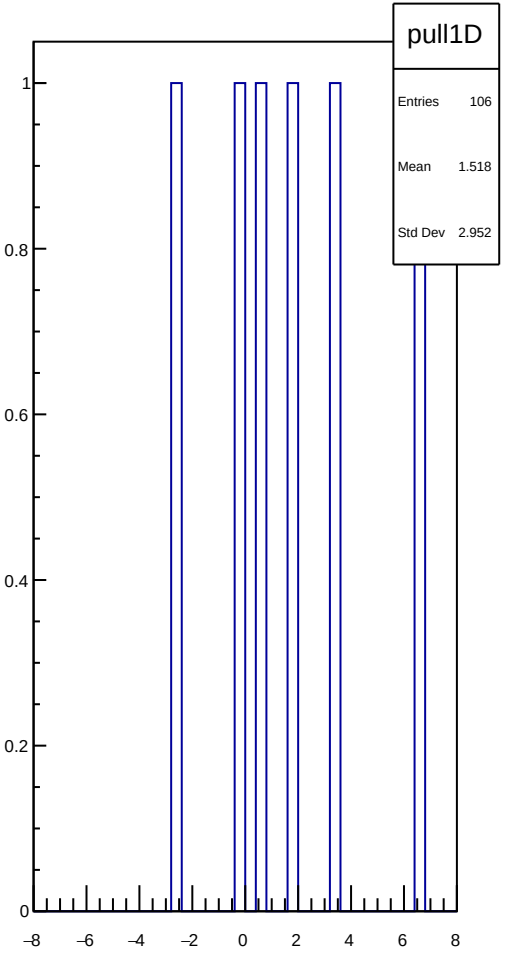

pull1D
Entries 106
Mean −1.244
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

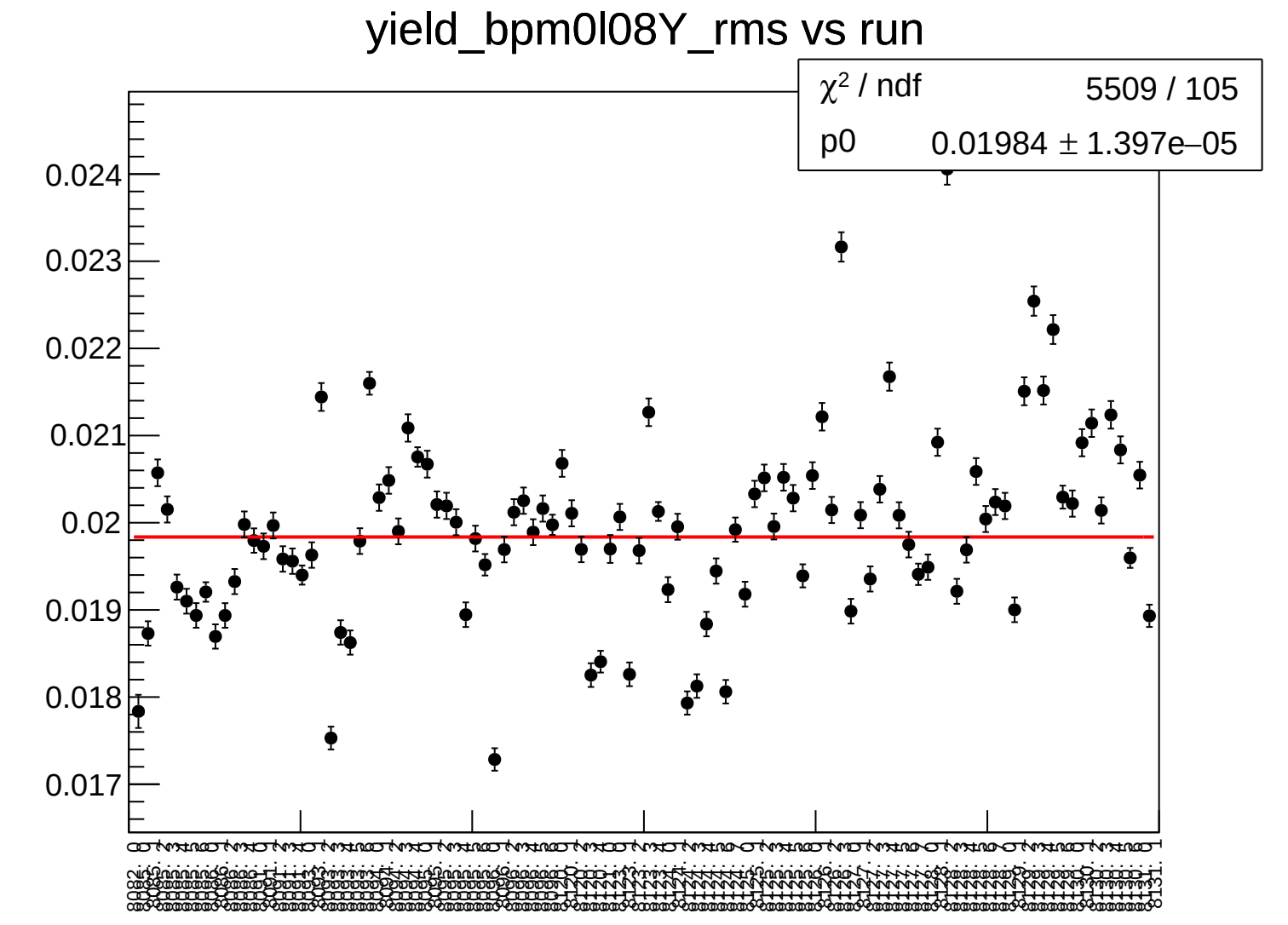

yield_bpm0l07Y_rms vs run
χ² / ndf 6.82e+04 / 105
p0 0.00326 ± 2.331e–06
0.008
0.007
0.006
0.005
0.004
0.003
0.002

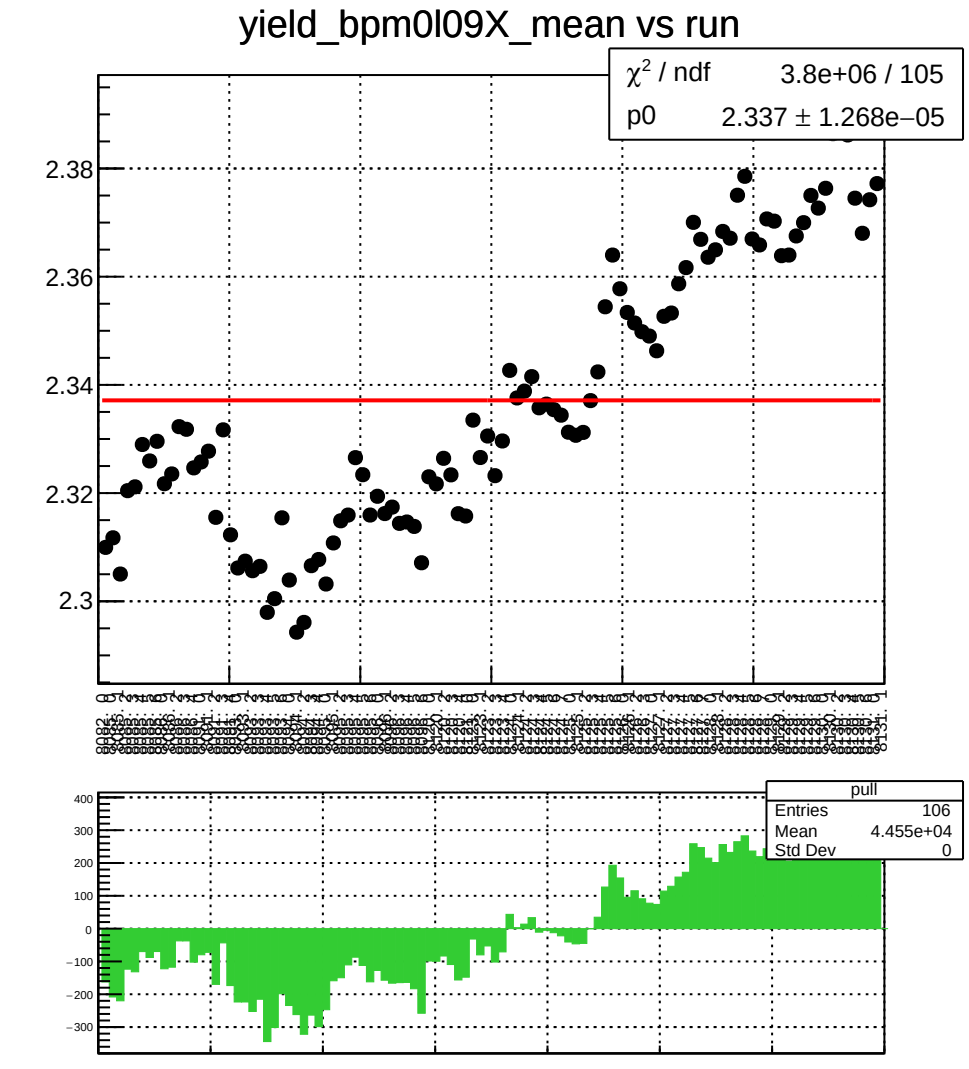

yield_bpm0l08X_mean vs run
χ² / ndf 3.89e+06 / 105
p0 2.66 ± 2.336e−05
2.72
2.7
2.68
2.66
2.64
2.62
2.6
2.58
2.56
pull
Entries 106
Mean 2987
Std Dev 0
300
200
100
0
−100
−200
−300
−400
pull1D
Entries 106
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

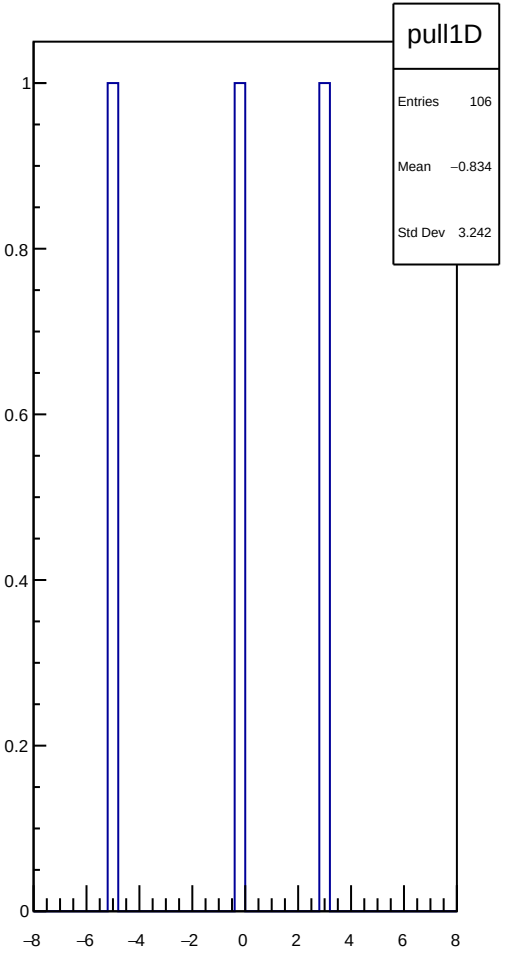

yield_bpm0l08X_rms vs run
χ² / ndf 4568 / 105
p0 0.02347 ± 1.652e–05
0.028
0.027
0.026
0.025
0.024
0.023
0.022
0.021
0.02

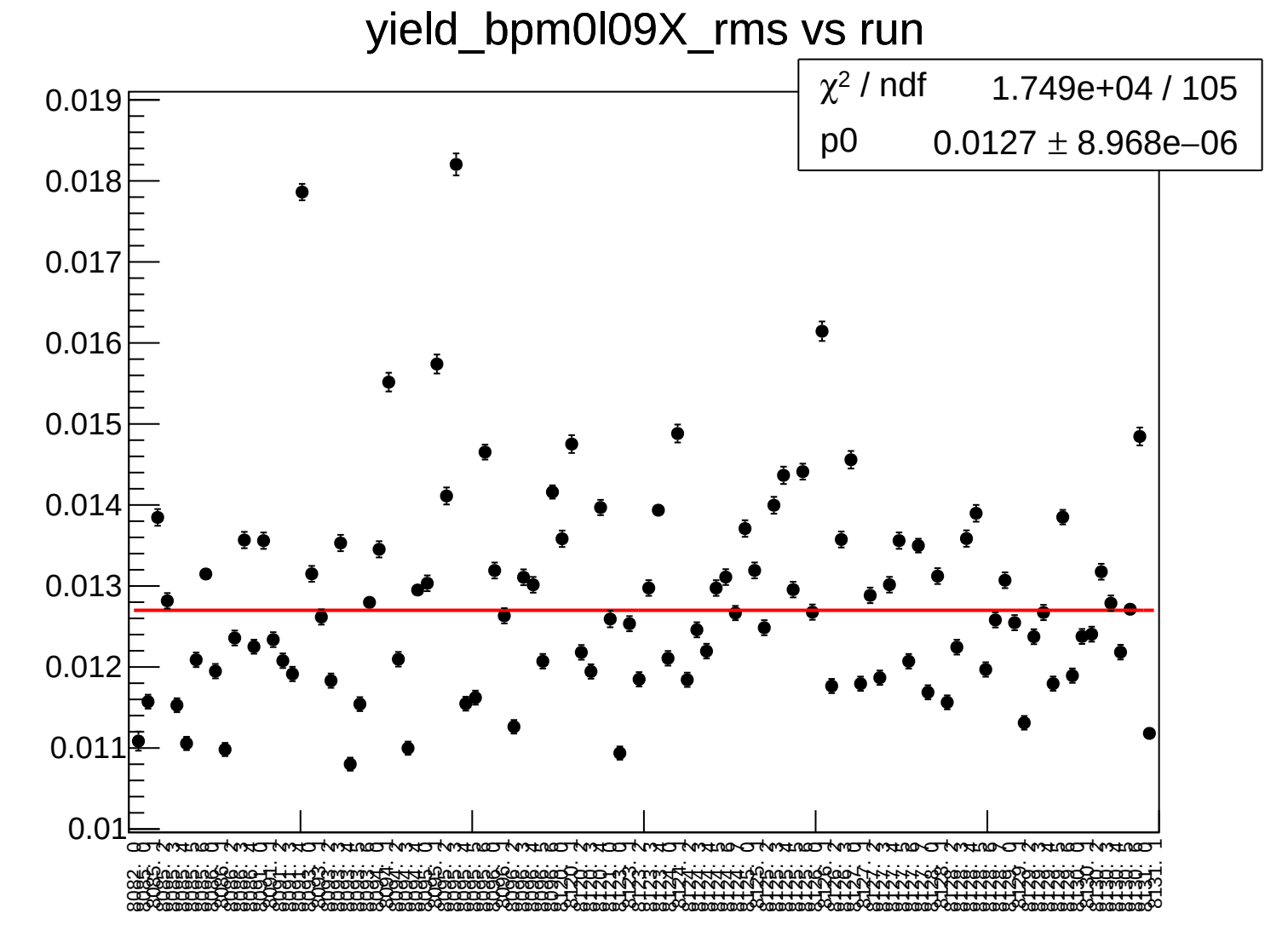

yield_bpm0l08Y_mean vs run
χ² / ndf 2.616e+06 / 105
p0 −4.643 ± 1.975e−05
−4.56
−4.58
−4.6
−4.62
−4.64
−4.66
−4.68
−4.7
pull
Entries 106
Mean 1623
Std Dev 0
400
300
200
100
0
−100
−200

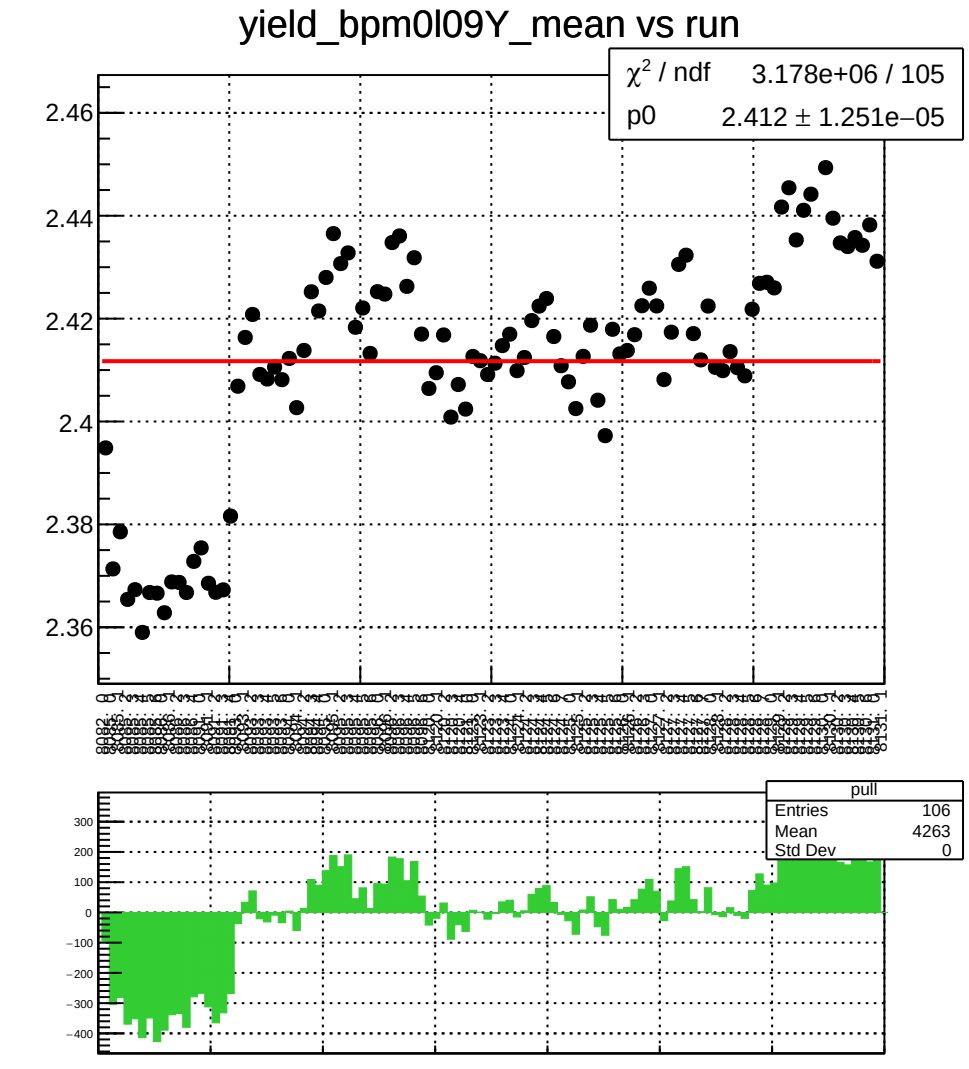

pull1D
Entries 106
Mean 1.518
Std Dev 2.952
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

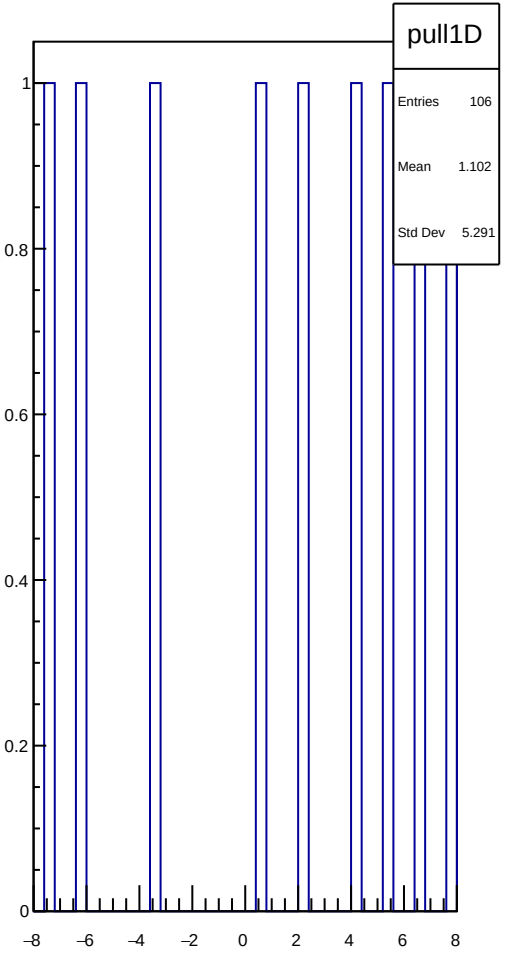

yield_bpm0l08Y_rms vs run
χ² / ndf 5509 / 105
p0 0.01984 ± 1.397e−05
0.024
0.023
0.022
0.021
0.02
0.019
0.018
0.017

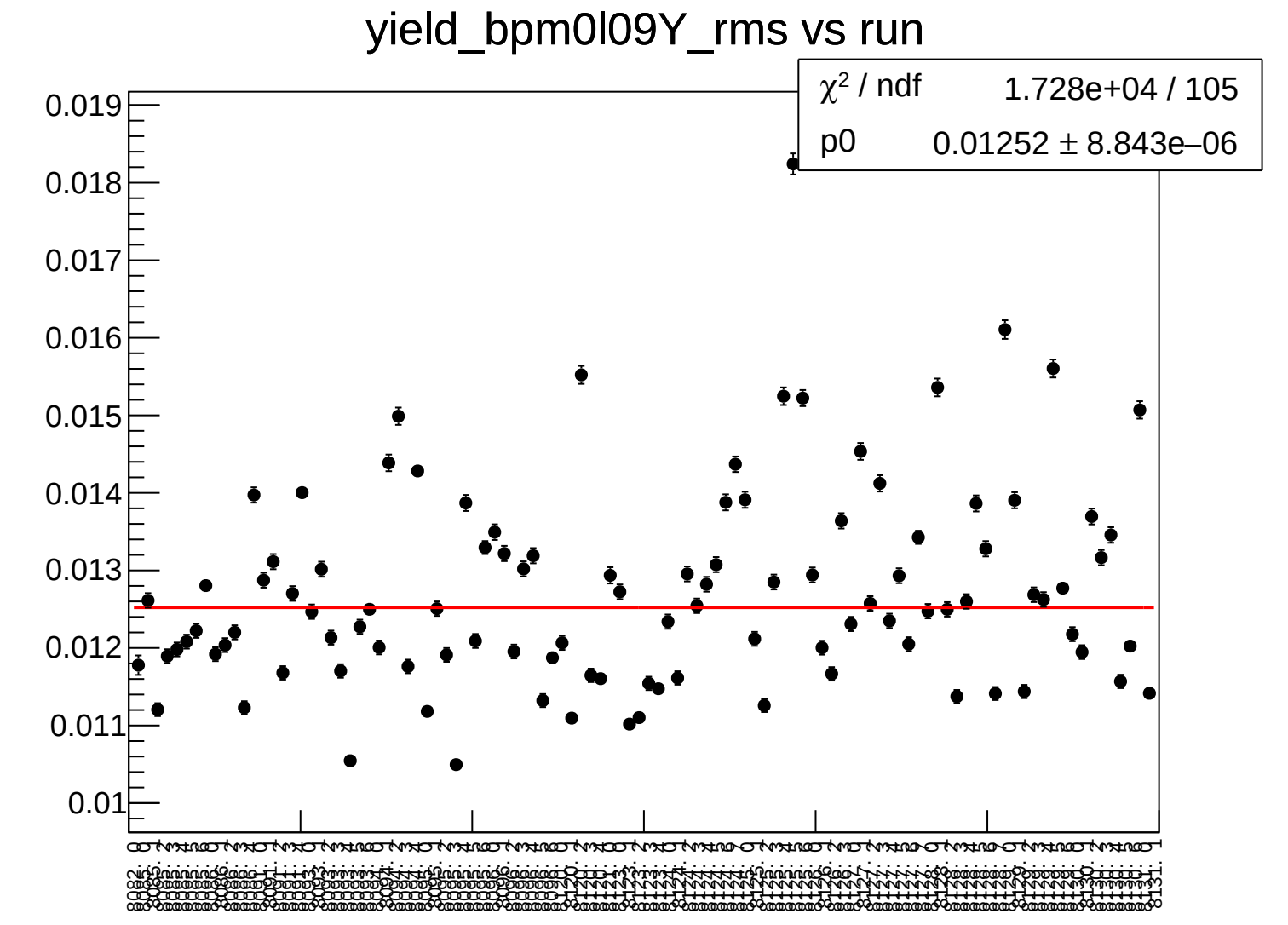

yield_bpm0l09X_mean vs run
χ² / ndf 3.8e+06 / 105
p0 2.337 ± 1.268e−05
2.38
2.36
2.34
2.32
2.3
pull
Entries 106
Mean 4.455e+04
Std Dev 0
400
300
200
100
0
−100
−200
−300

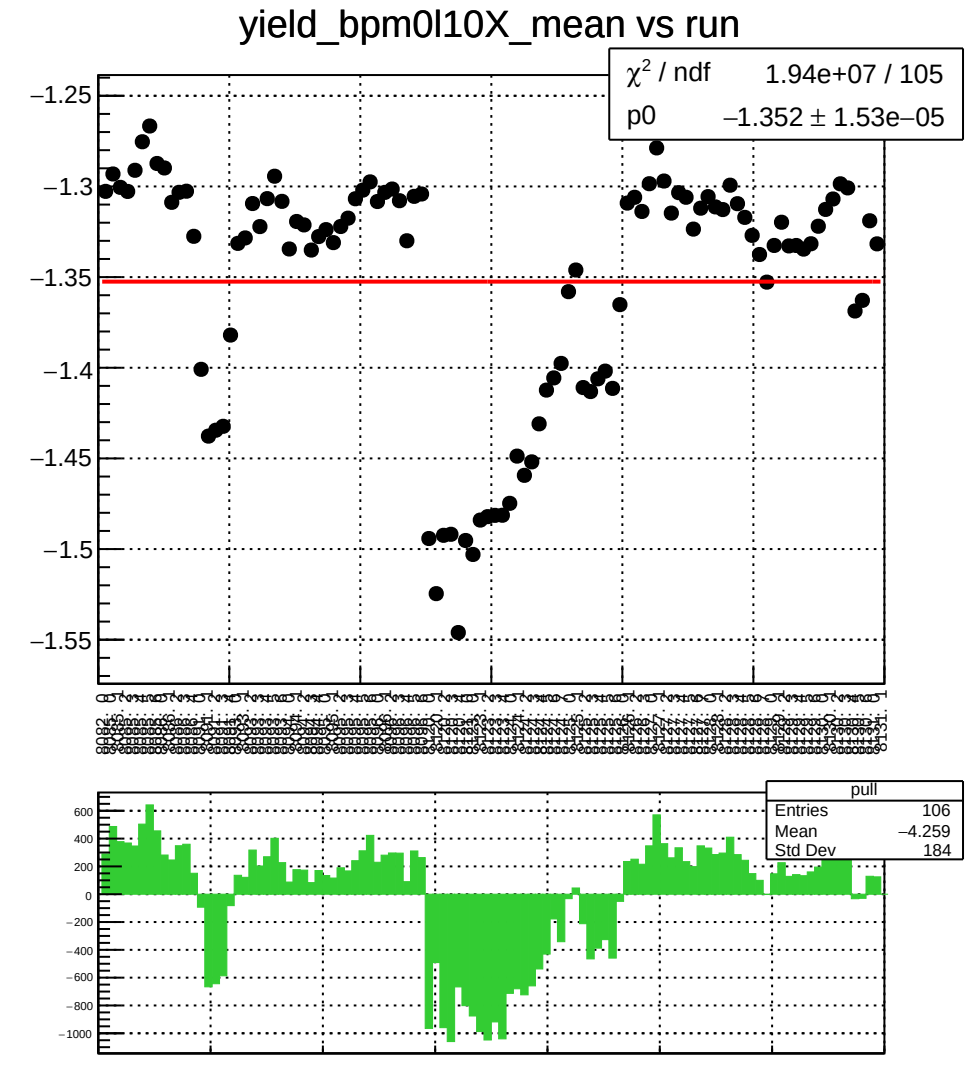

pull1D
Entries 106
Mean −0.834
Std Dev 3.242
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

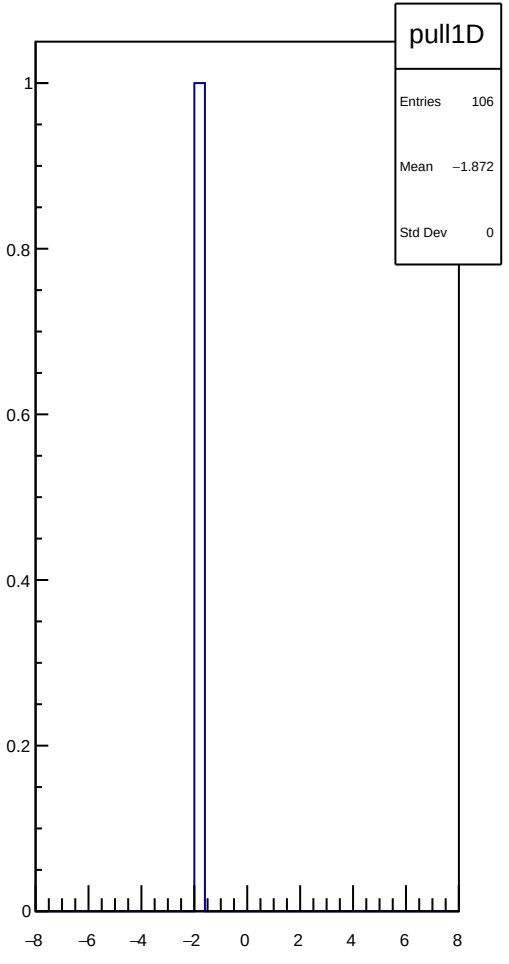

yield_bpm0l09X_rms vs run
χ² / ndf 1.749e+04 / 105
p0 0.0127 ± 8.968e−06
0.019
0.018
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01

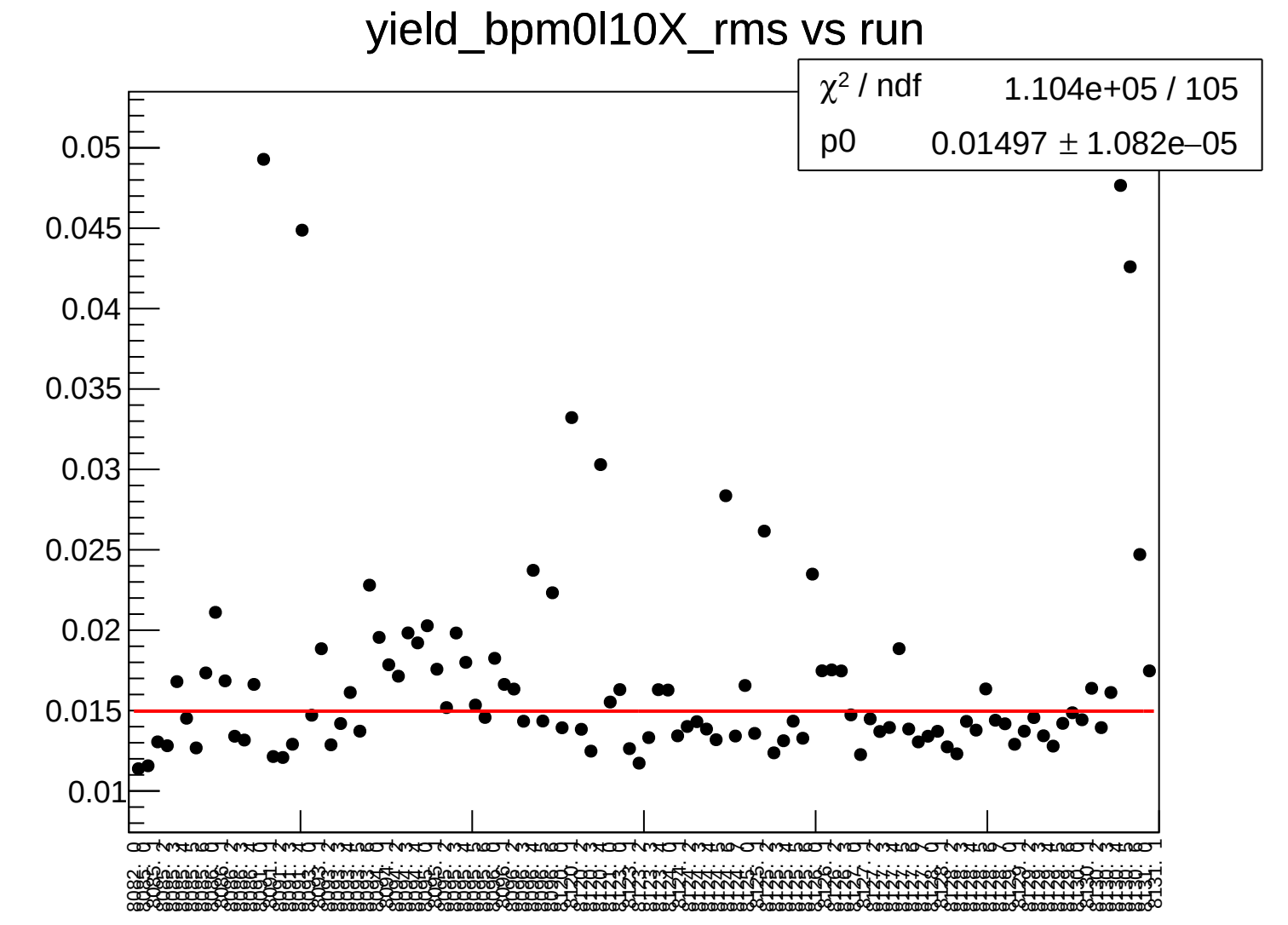

yield_bpm0l09Y_mean vs run
χ² / ndf 3.178e+06 / 105
p0 2.412 ± 1.251e−05
2.46
2.44
2.42
2.4
2.38
2.36
pull
Entries 106
Mean 4263
Std Dev 0
300
200
100
0
−100
−200
−300
−400

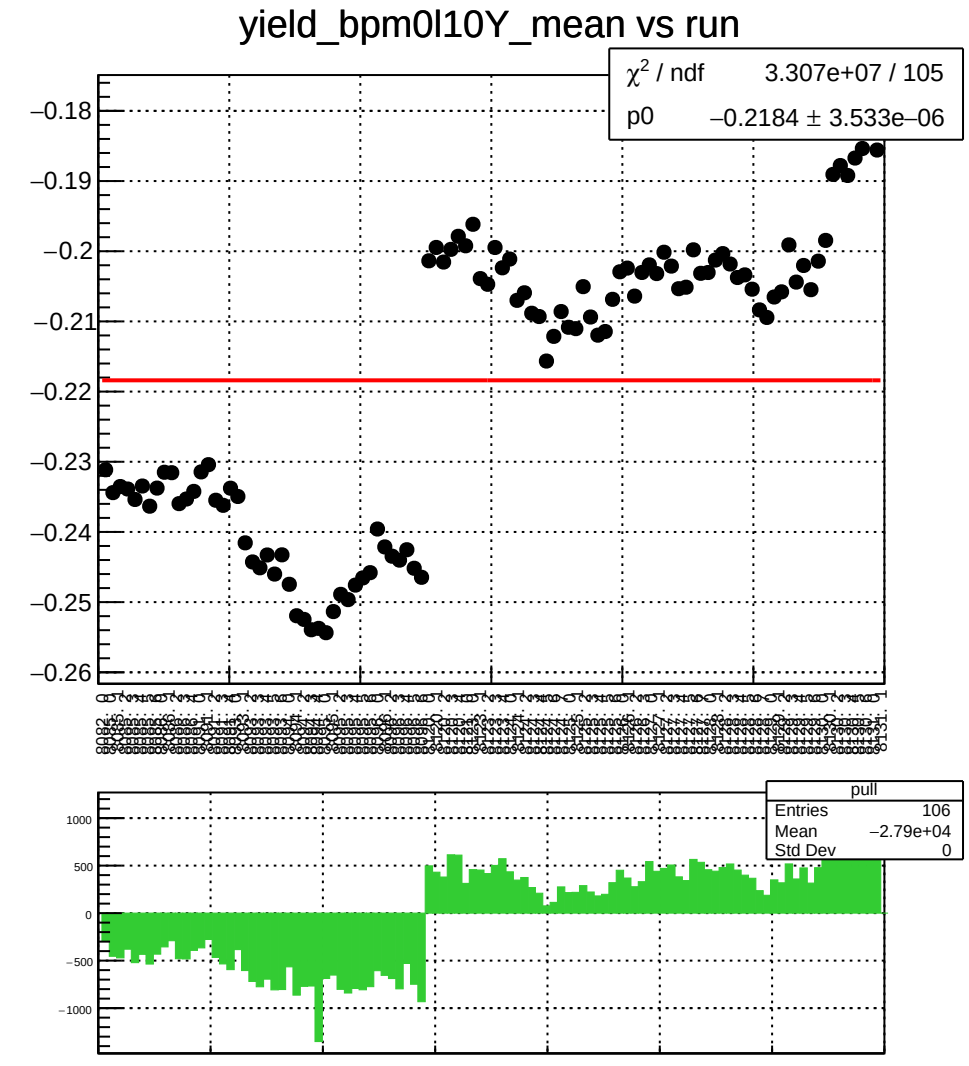

pull1D
Entries 106
Mean 1.102
Std Dev 5.291
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

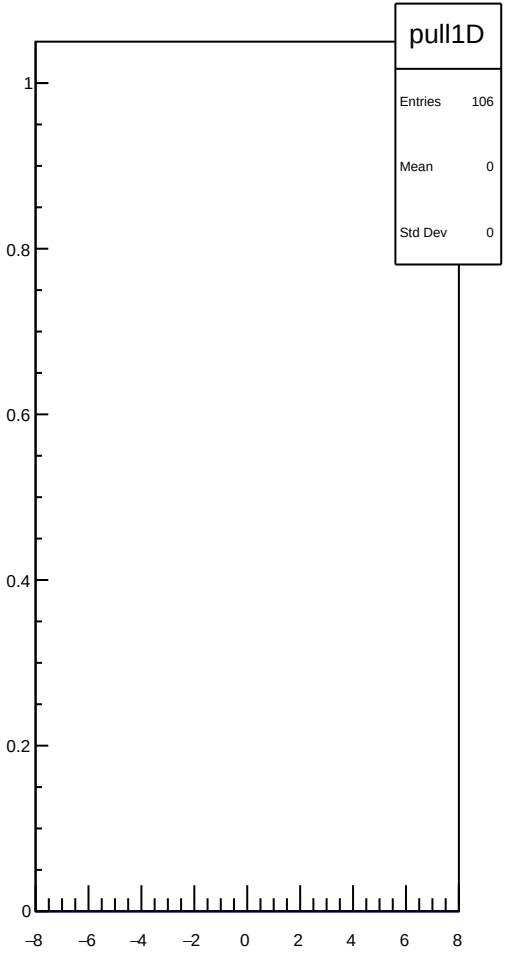

yield_bpm0l09Y_rms vs run
χ² / ndf 1.728e+04 / 105
p0 0.01252 ± 8.843e–06
0.019
0.018
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01

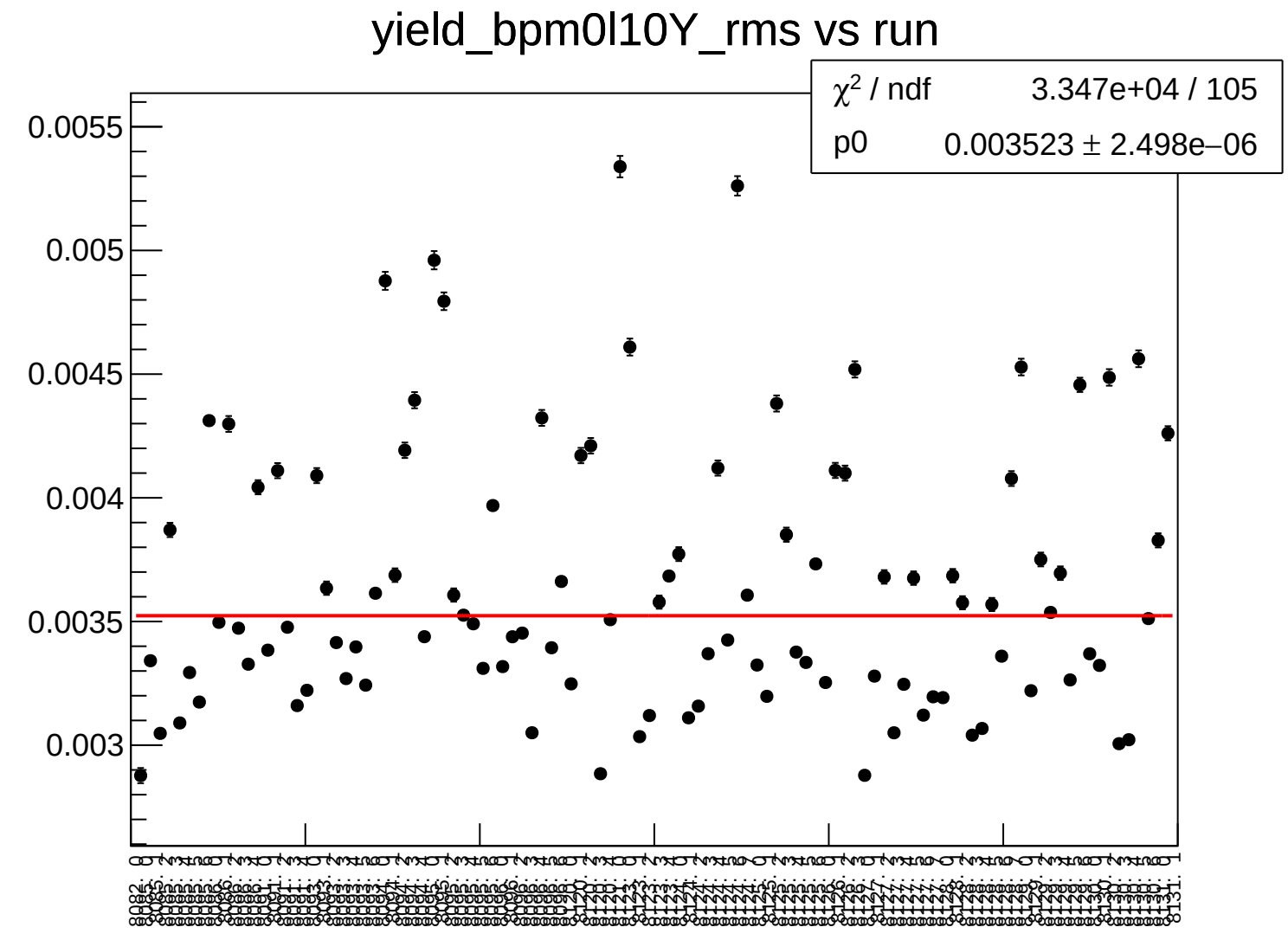

yield_bpm0l10X_mean vs run
χ² / ndf 1.94e+07 / 105
p0 −1.352 ± 1.53e−05
−1.25
−1.3
−1.35
−1.4
−1.45
−1.5
−1.55
pull
Entries 106
Mean −4.259
Std Dev 184
600
400
200
0
−200
−400
−600
−800
−1000

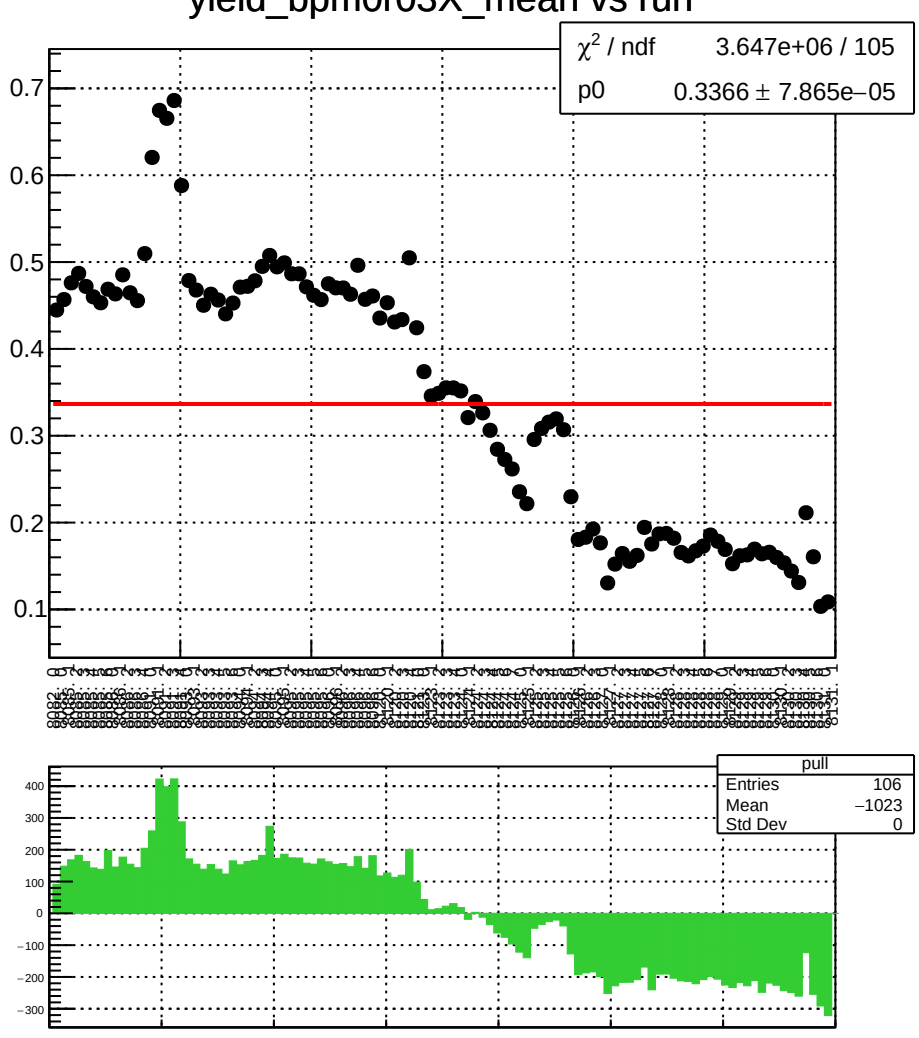

pull1D
Entries 106
Mean −1.872
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

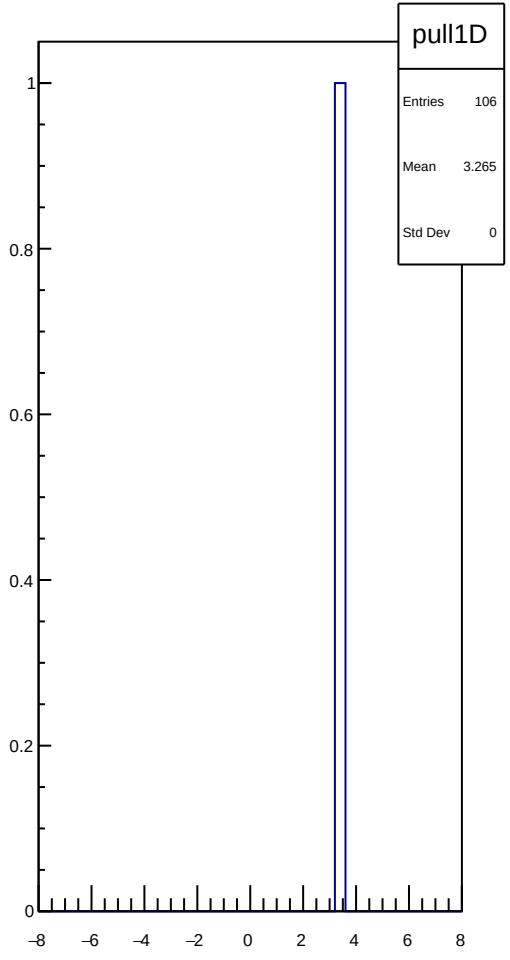

yield_bpm0l10X_rms vs run
χ² / ndf 1.104e+05 / 105
p0 0.01497 ± 1.082e–05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

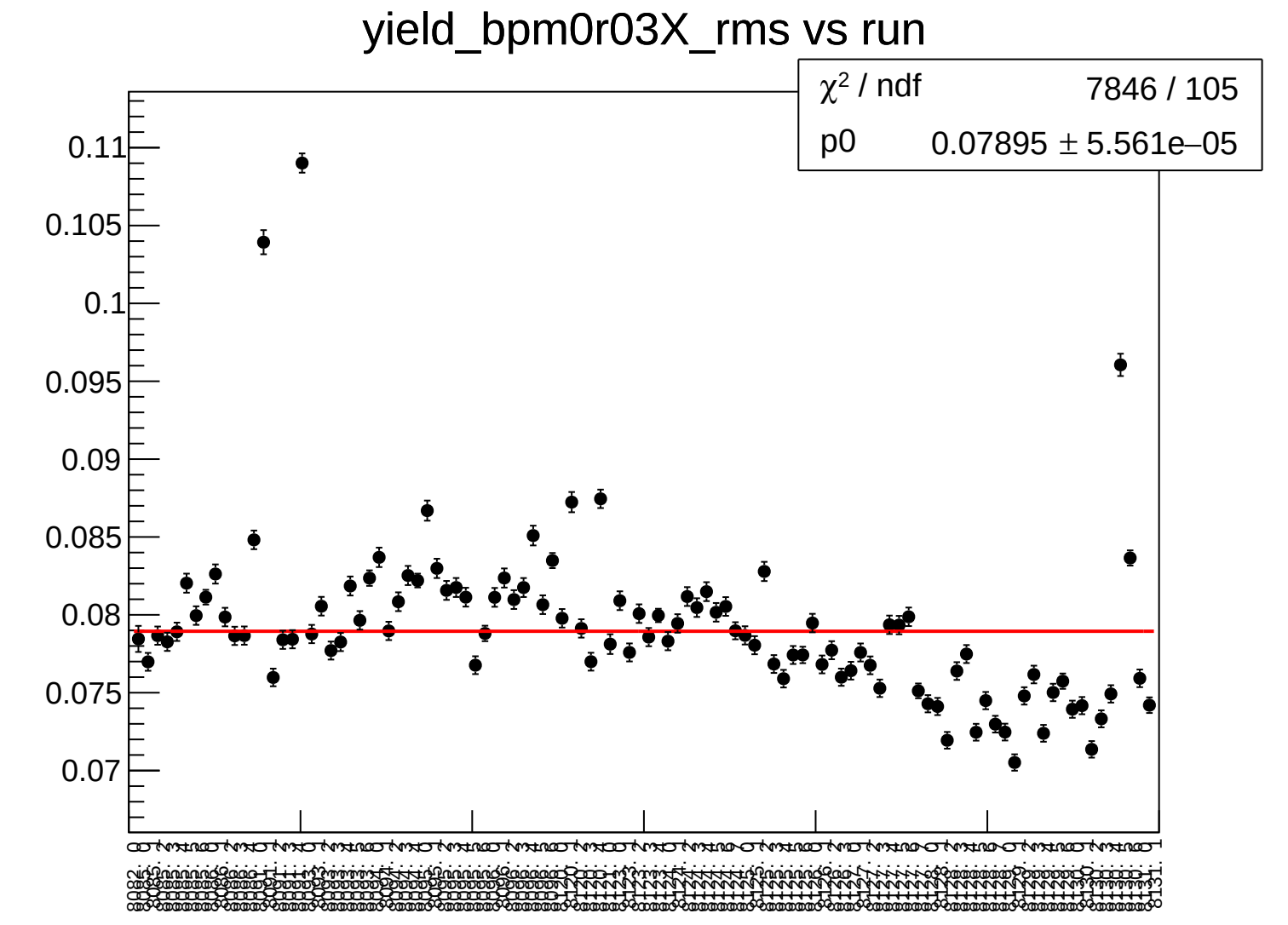

yield_bpm0l10Y_mean vs run
χ² / ndf 3.307e+07 / 105
p0 −0.2184 ± 3.533e−06
−0.18
−0.19
−0.2
−0.21
−0.22
−0.23
−0.24
−0.25
−0.26
pull
Entries 106
Mean −2.79e+04
Std Dev 0
1000
500
0
−500
−1000

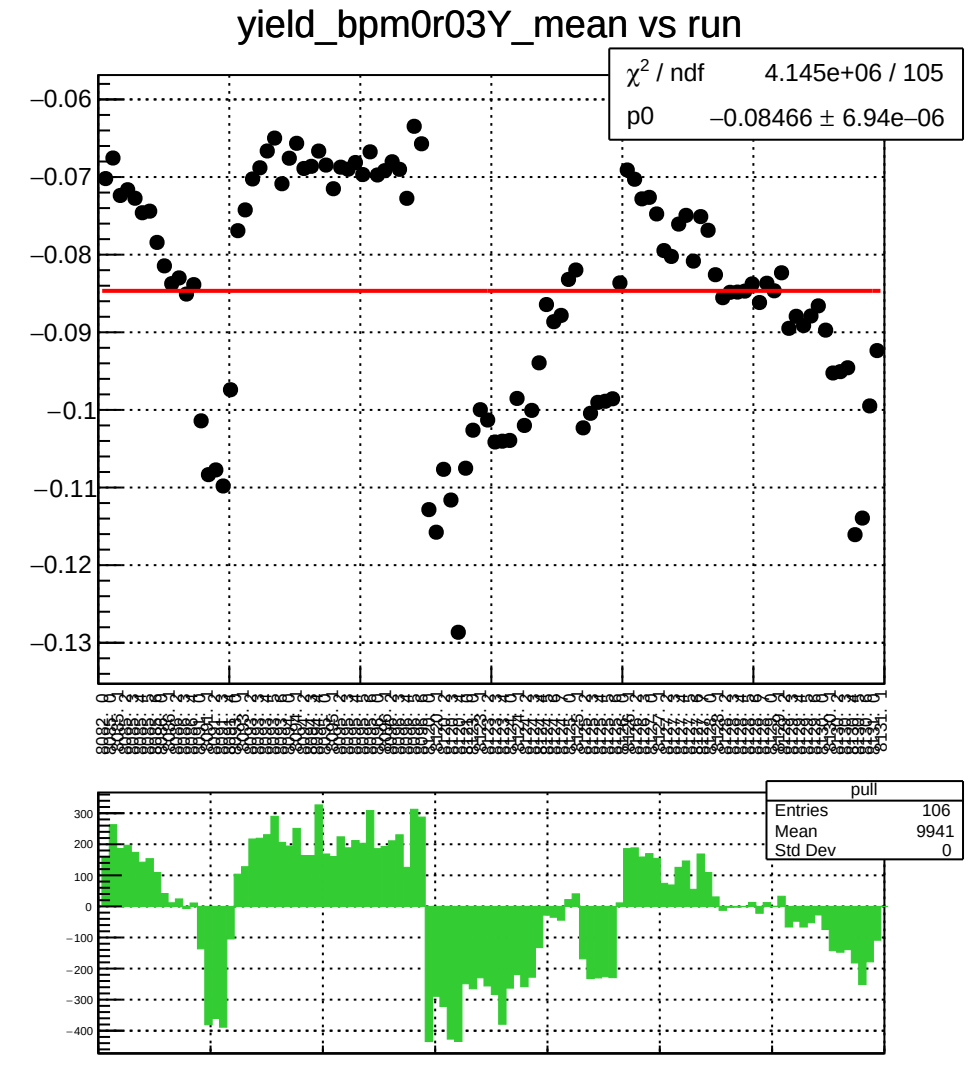

pull1D
Entries 106
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

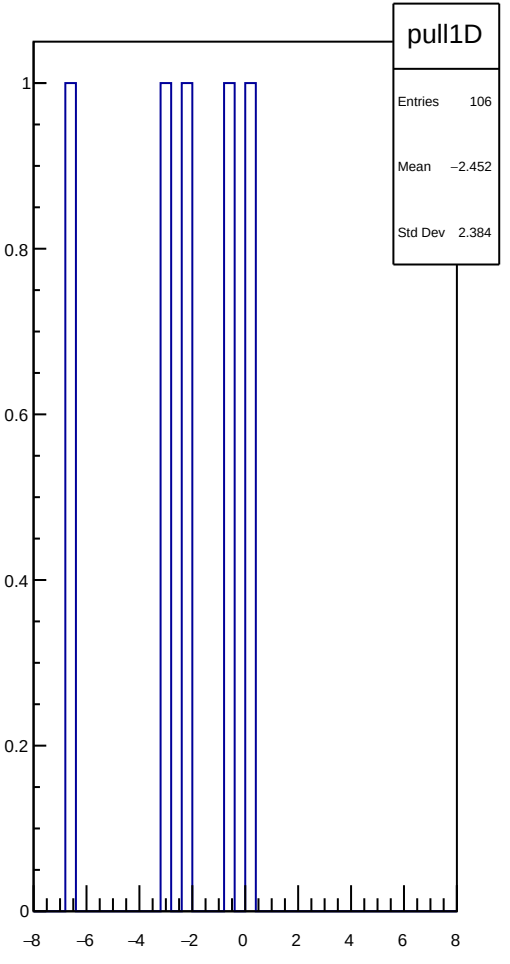

yield_bpm0l10Y_rms vs run
χ² / ndf 3.347e+04 / 105
p0 0.003523 ± 2.498e−06
0.0055
0.005
0.0045
0.004
0.0035
0.003

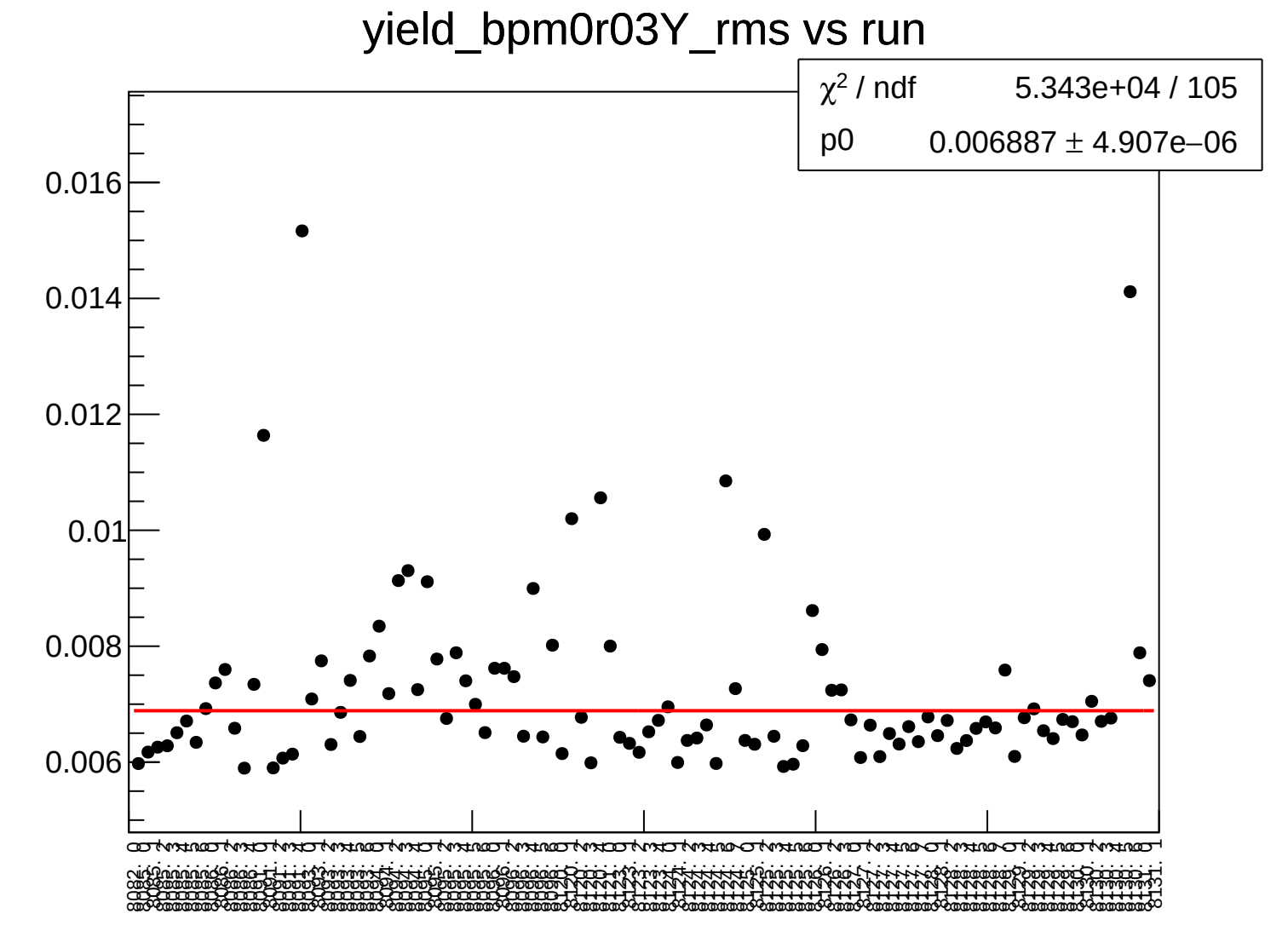

yield_bpm0r03X_mean vs run
χ² / ndf 3.647e+06 / 105
p0 0.3366 ± 7.865e−05
pull
Entries 106
Mean −1023
Std Dev 0

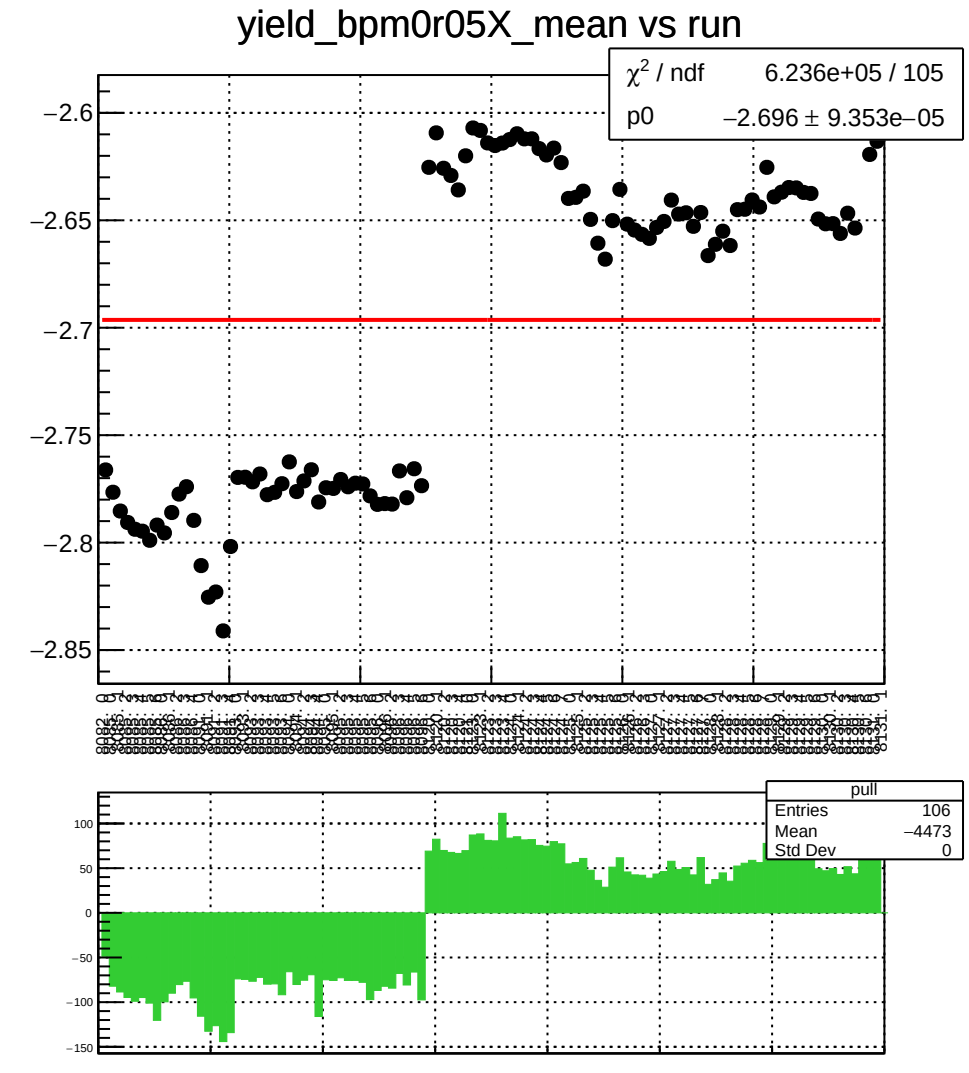

pull1D
Entries 106
Mean 3.265
Std Dev 0

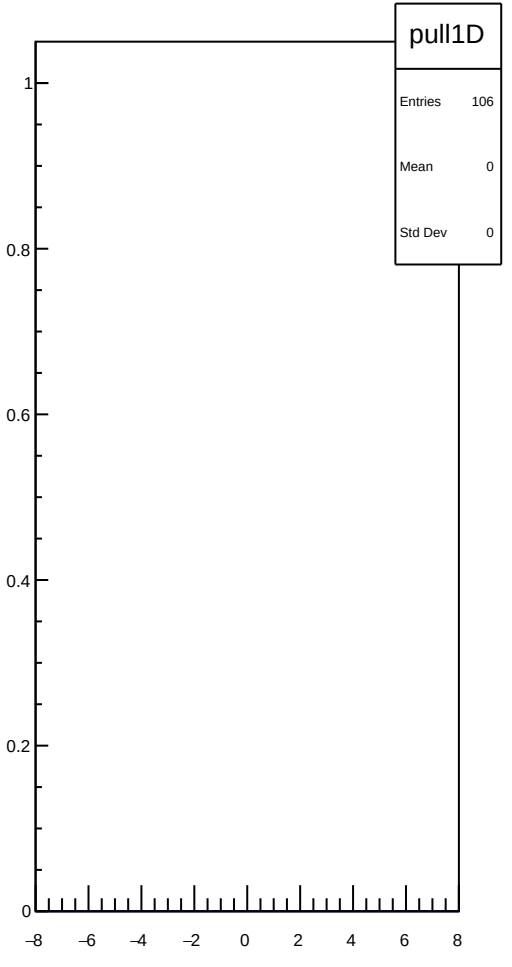

yield_bpm0r03X_rms vs run
χ² / ndf 7846 / 105
p0 0.07895 ± 5.561e–05
0.11
0.105
0.1
0.095
0.09
0.085
0.08
0.075
0.07

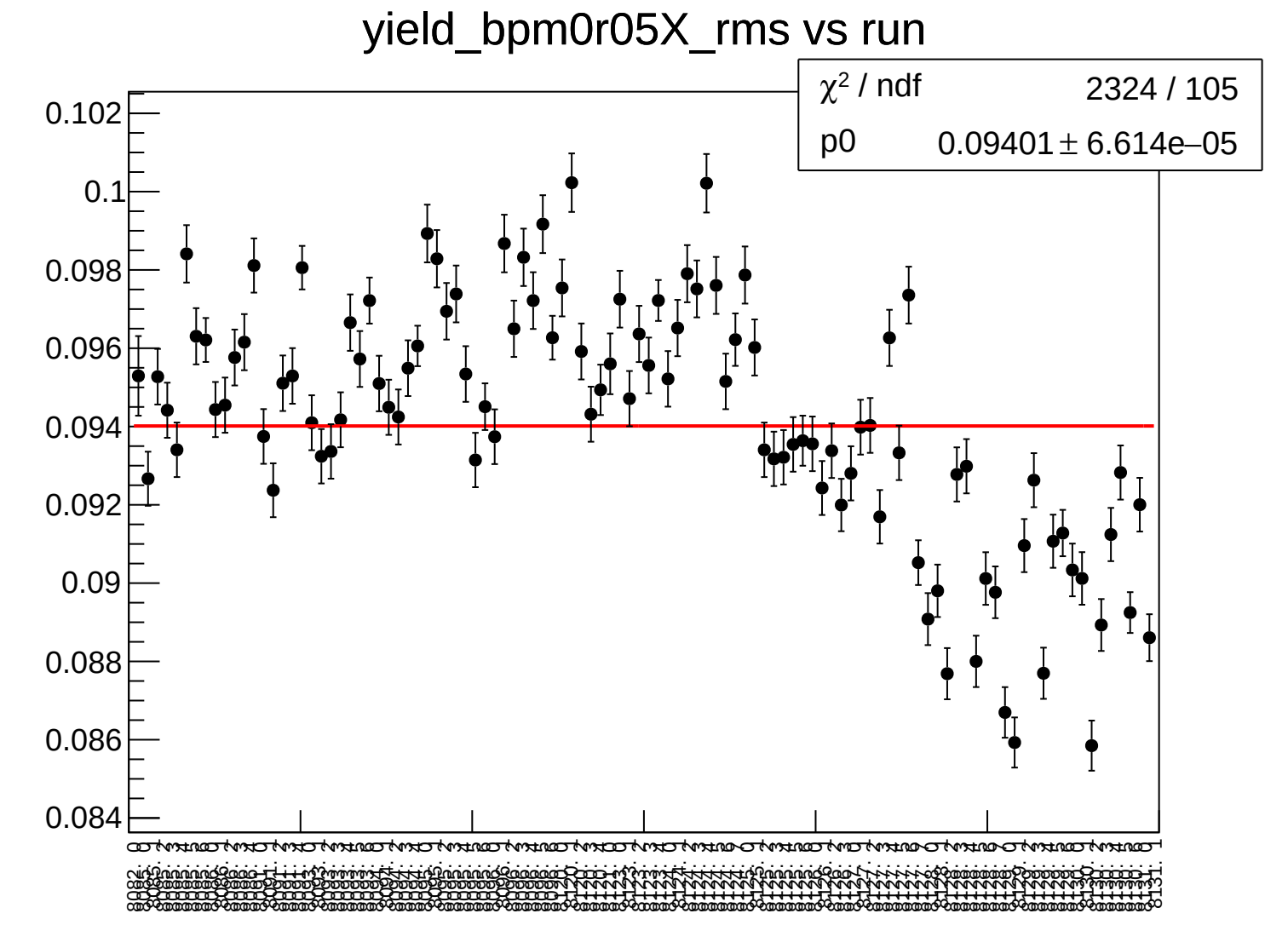

yield_bpm0r03Y_mean vs run
χ² / ndf 4.145e+06 / 105
p0 −0.08466 ± 6.94e−06
−0.06
−0.07
−0.08
−0.09
−0.1
−0.11
−0.12
−0.13
pull
Entries 106
Mean 9941
Std Dev 0
300
200
100
0
−100
−200
−300
−400

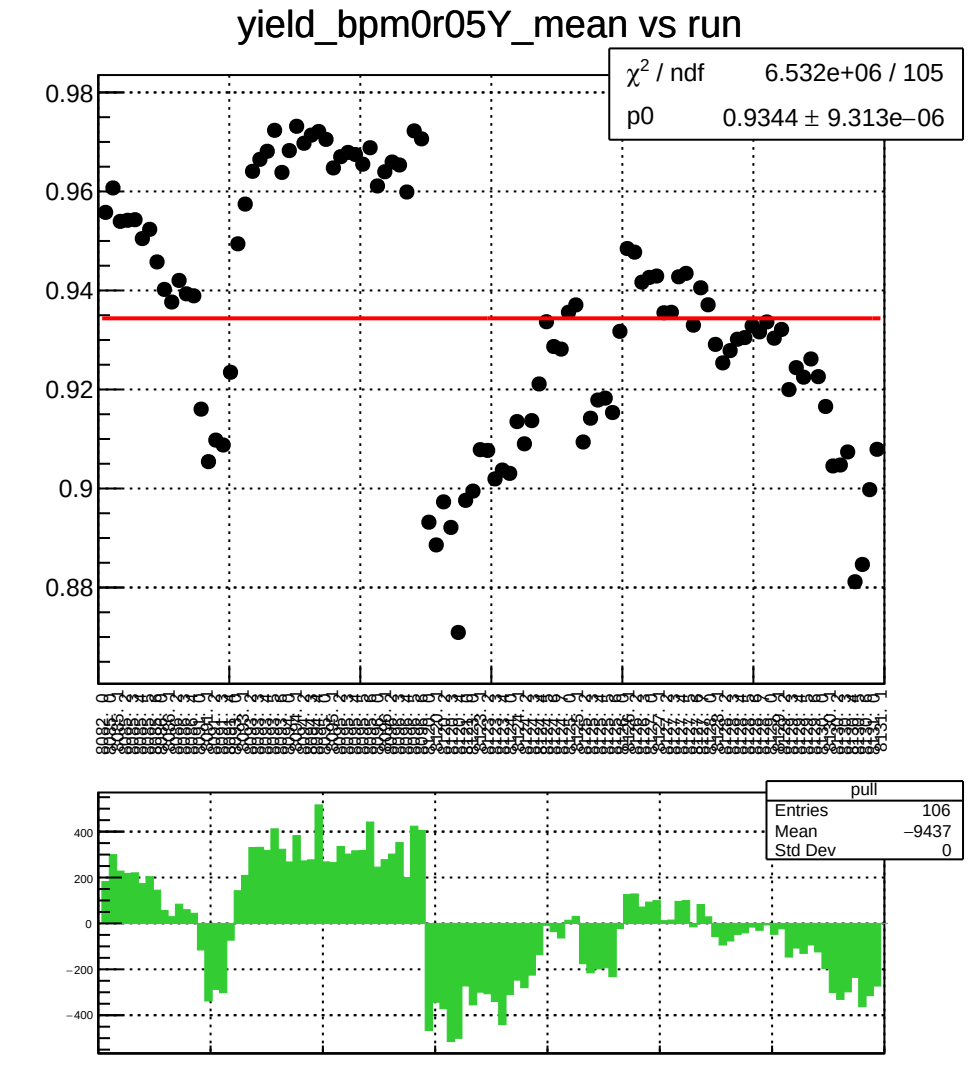

pull1D
Entries 106
Mean −2.452
Std Dev 2.384
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

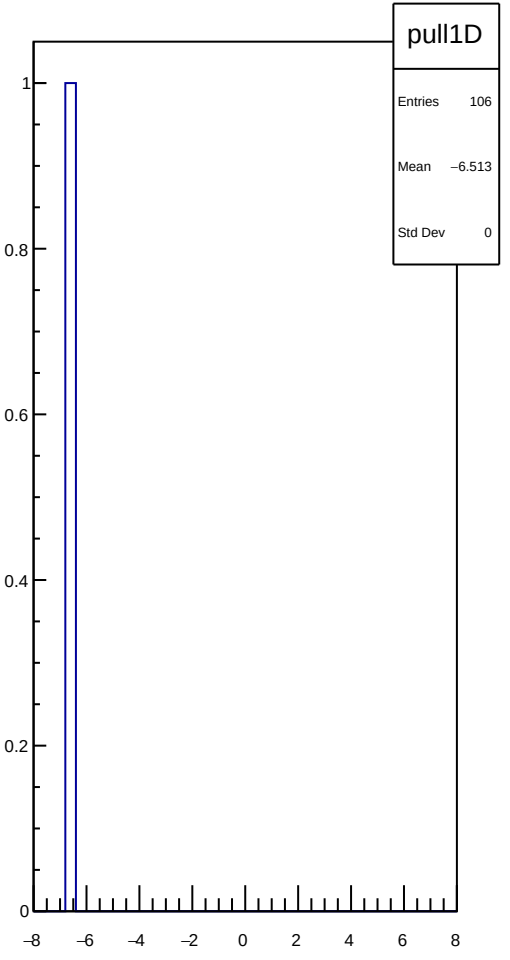

yield_bpm0r03Y_rms vs run
χ² / ndf 5.343e+04 / 105
p0 0.006887 ± 4.907e−06
0.016
0.014
0.012
0.01
0.008
0.006

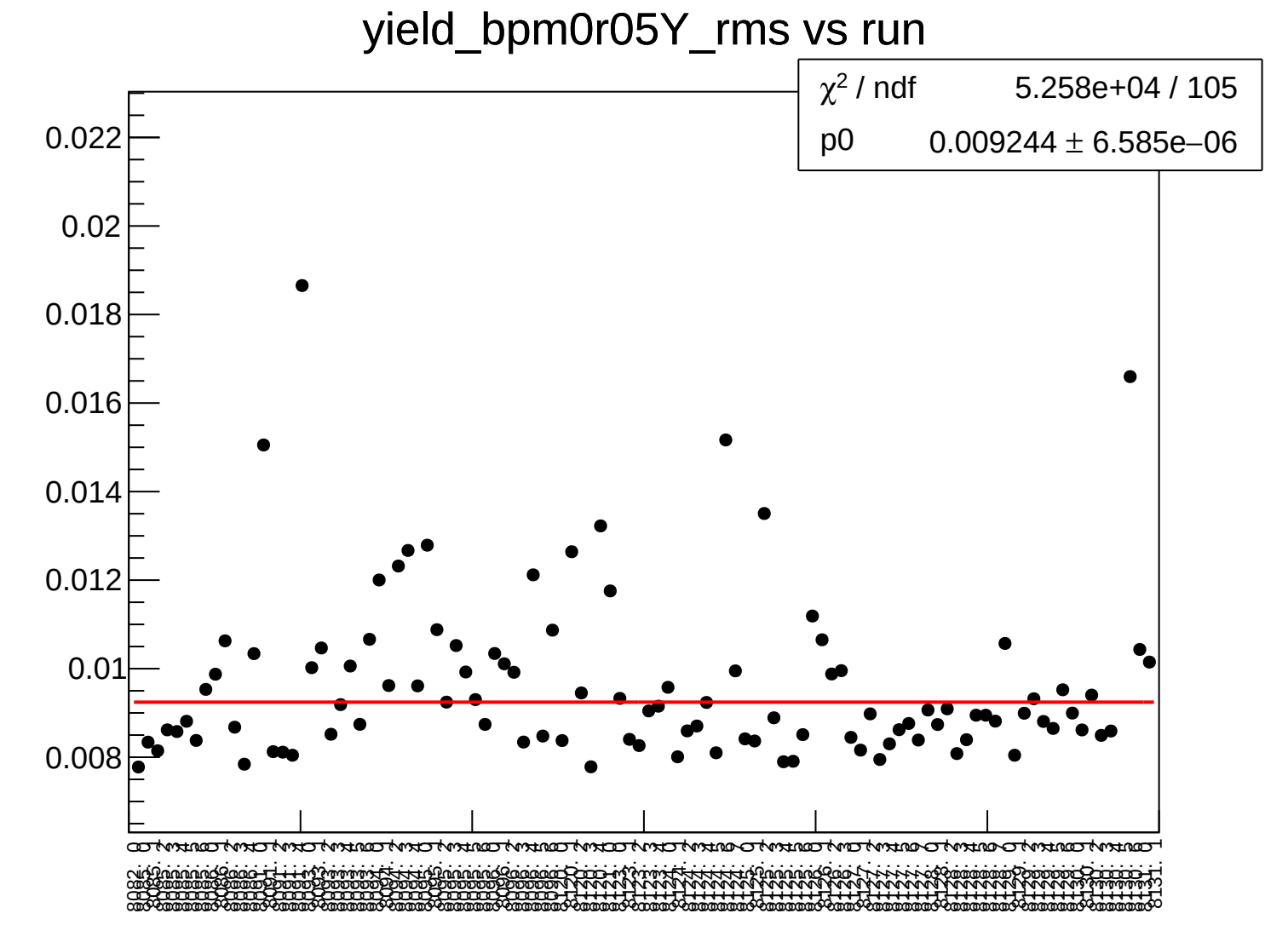

yield_bpm0r05X_mean vs run
χ² / ndf 6.236e+05 / 105
p0 −2.696 ± 9.353e−05
−2.6
−2.65
−2.7
−2.75
−2.8
−2.85
pull
Entries 106
Mean −4473
Std Dev 0
100
50
0
−50
−100
−150

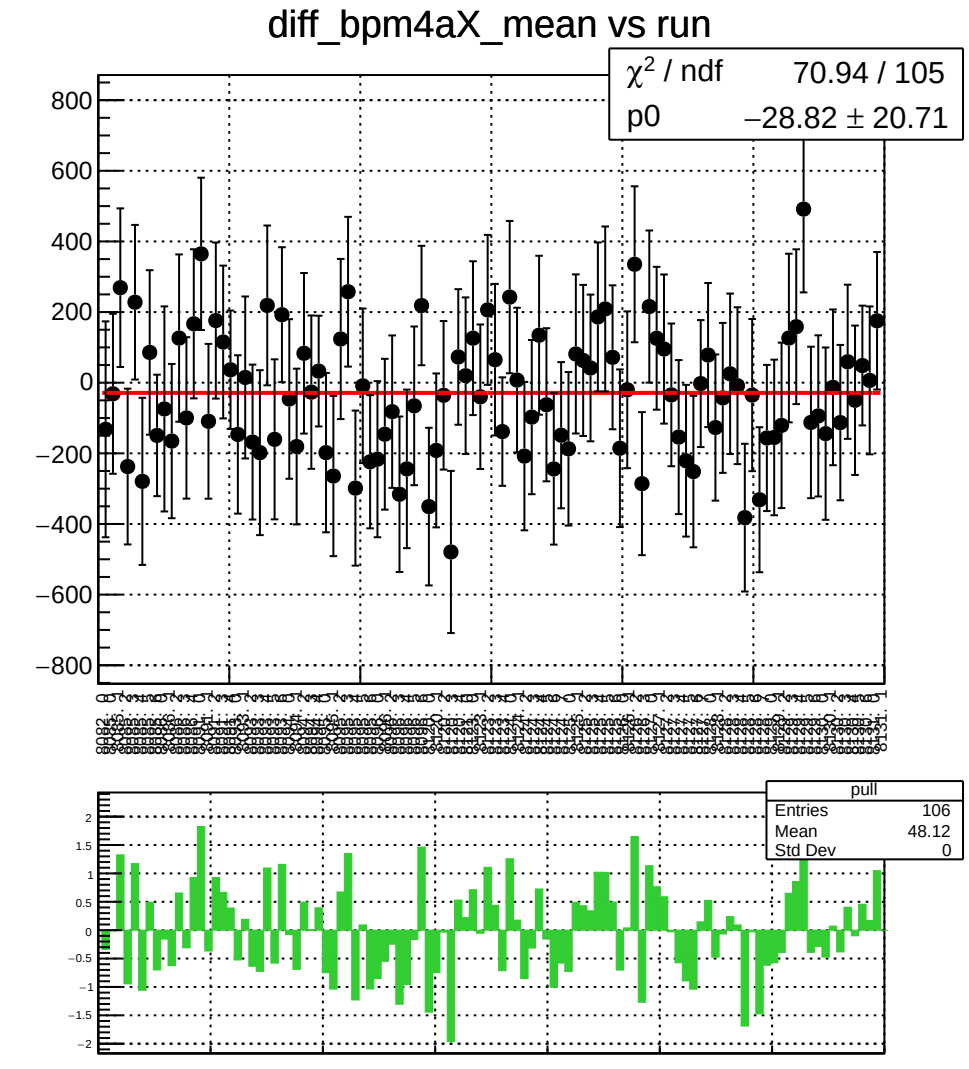

pull1D
Entries 106
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

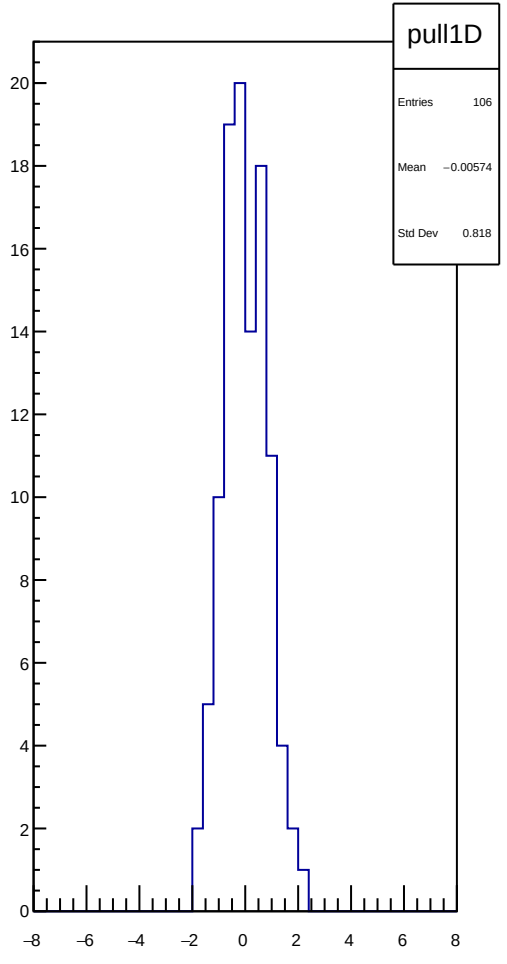

yield_bpm0r05X_rms vs run
χ² / ndf 2324 / 105
p0 0.09401 ± 6.614e–05
0.102
0.1
0.098
0.096
0.094
0.092
0.09
0.088
0.086
0.084

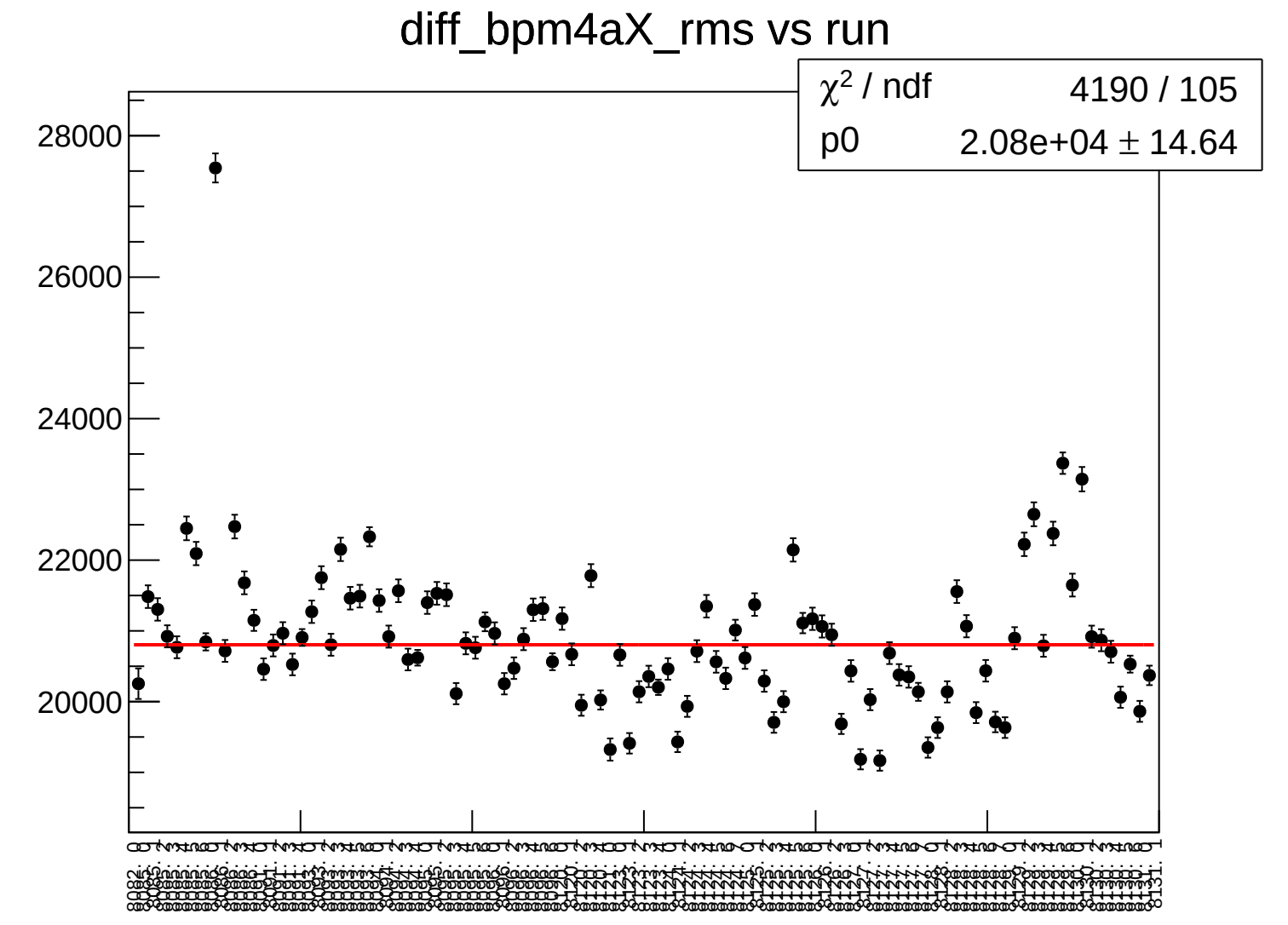

yield_bpm0r05Y_mean vs run
χ² / ndf 6.532e+06 / 105
p0 0.9344 ± 9.313e−06
0.98
0.96
0.94
0.92
0.9
0.88
pull
Entries 106
Mean −9437
Std Dev 0
400
200
0
−200
−400

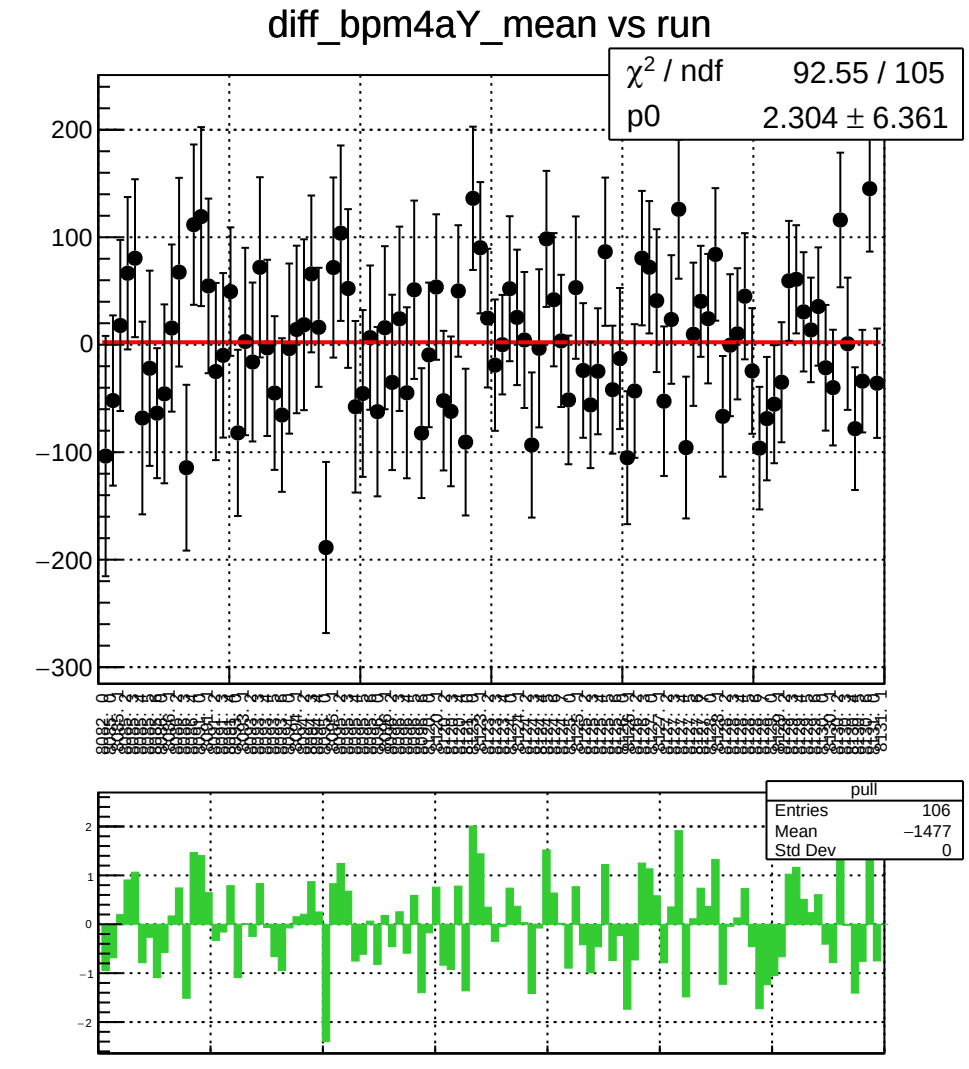

pull1D
Entries 106
Mean −6.513
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

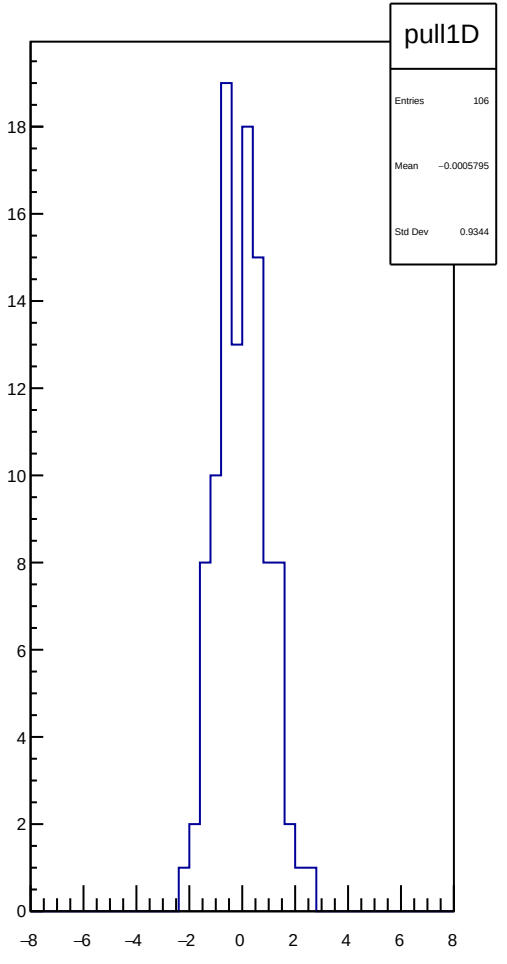

yield_bpm0r05Y_rms vs run
$\chi^2$ / ndf 5.258e+04 / 105
p0 0.009244 ± 6.585e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008

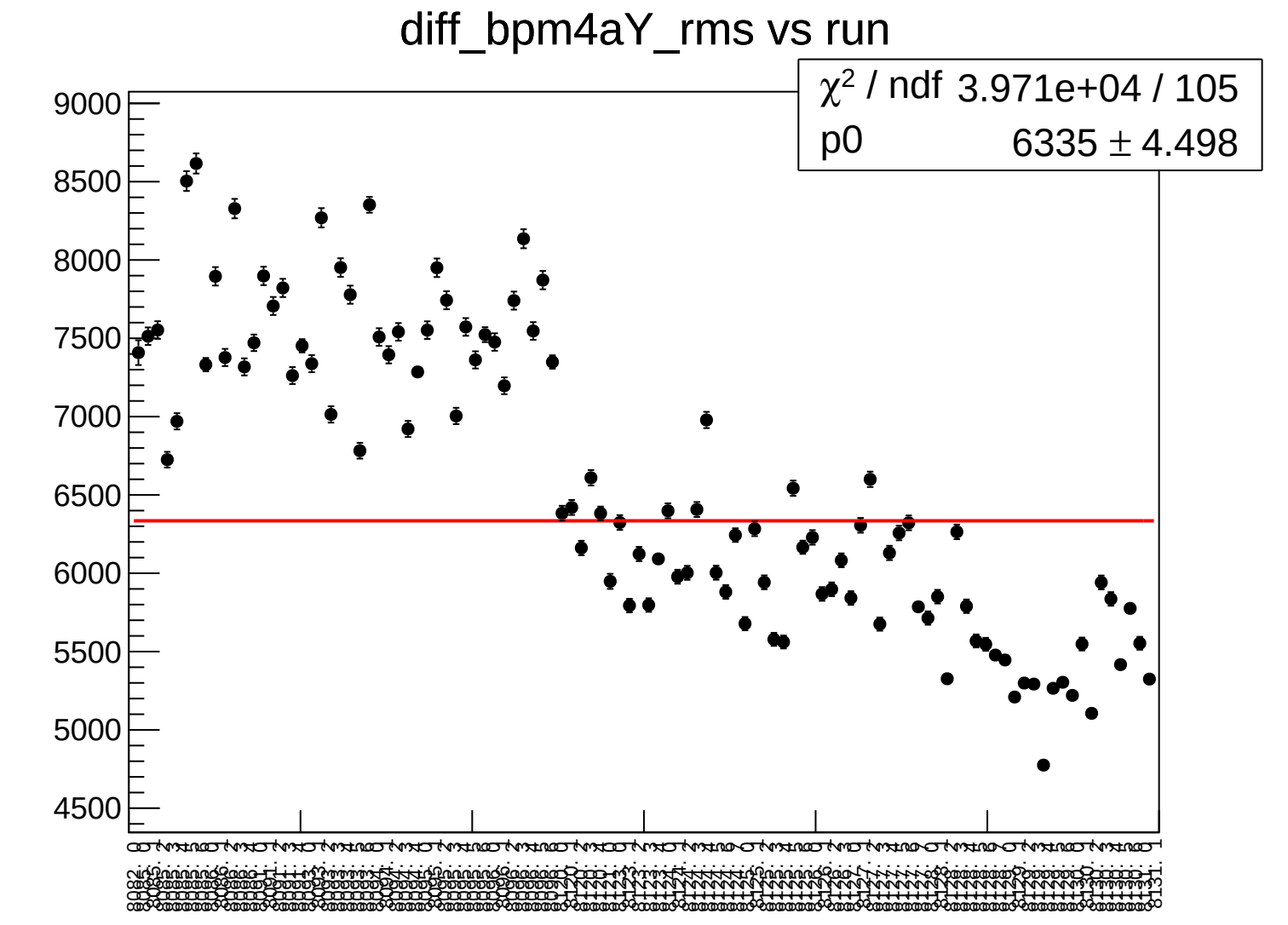

diff_bpm4aX_mean vs run
χ² / ndf 70.94 / 105
p0 −28.82 ± 20.71
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 106
Mean 48.12
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

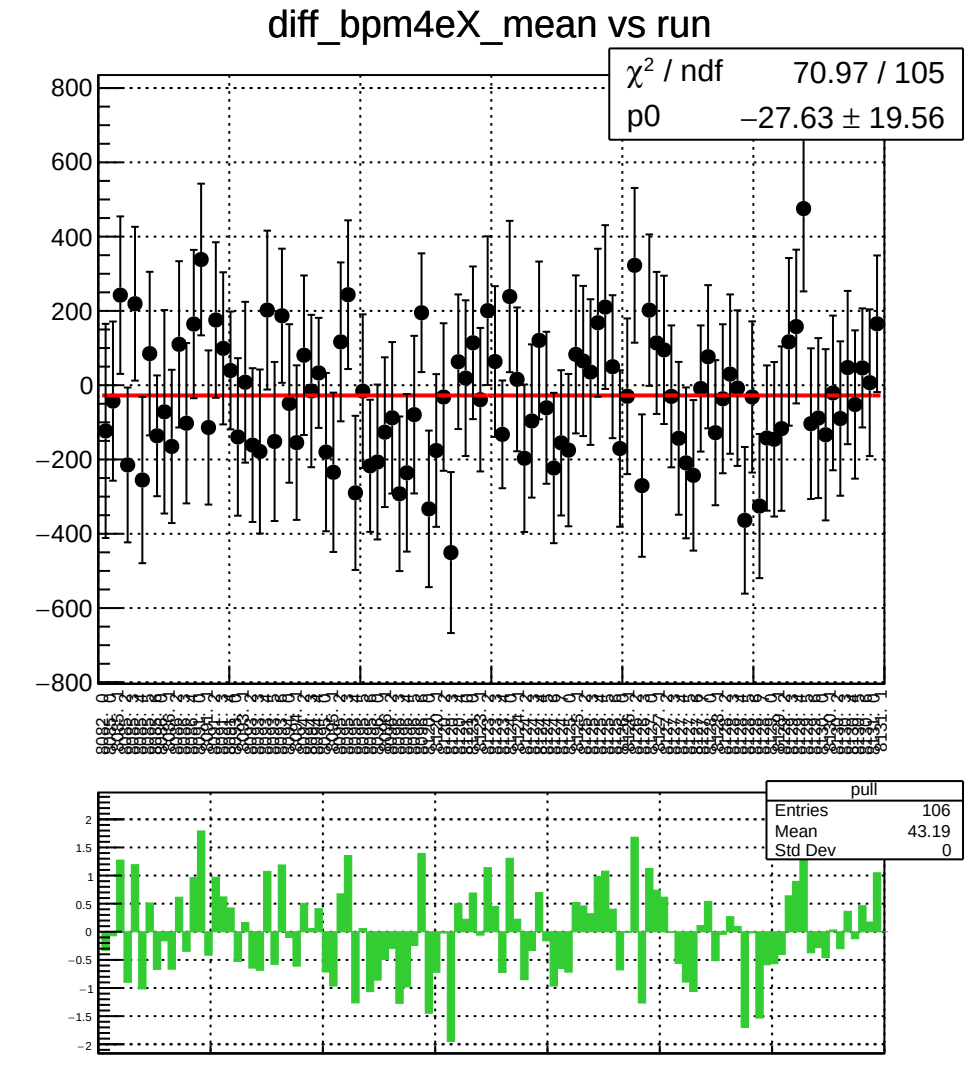

pull1D
Entries 106
Mean −0.00574
Std Dev 0.818
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

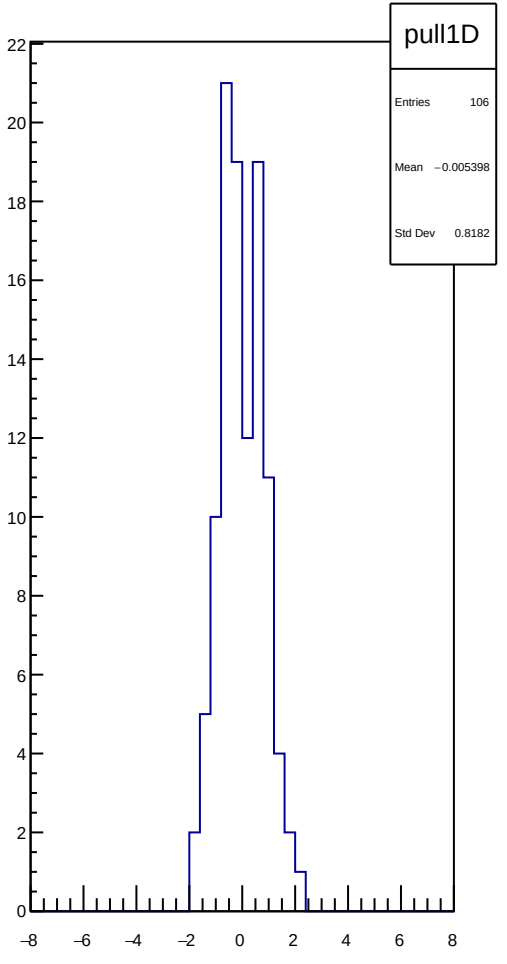

diff_bpm4aX_rms vs run
χ² / ndf 4190 / 105
p0 2.08e+04 ± 14.64
28000
26000
24000
22000
20000

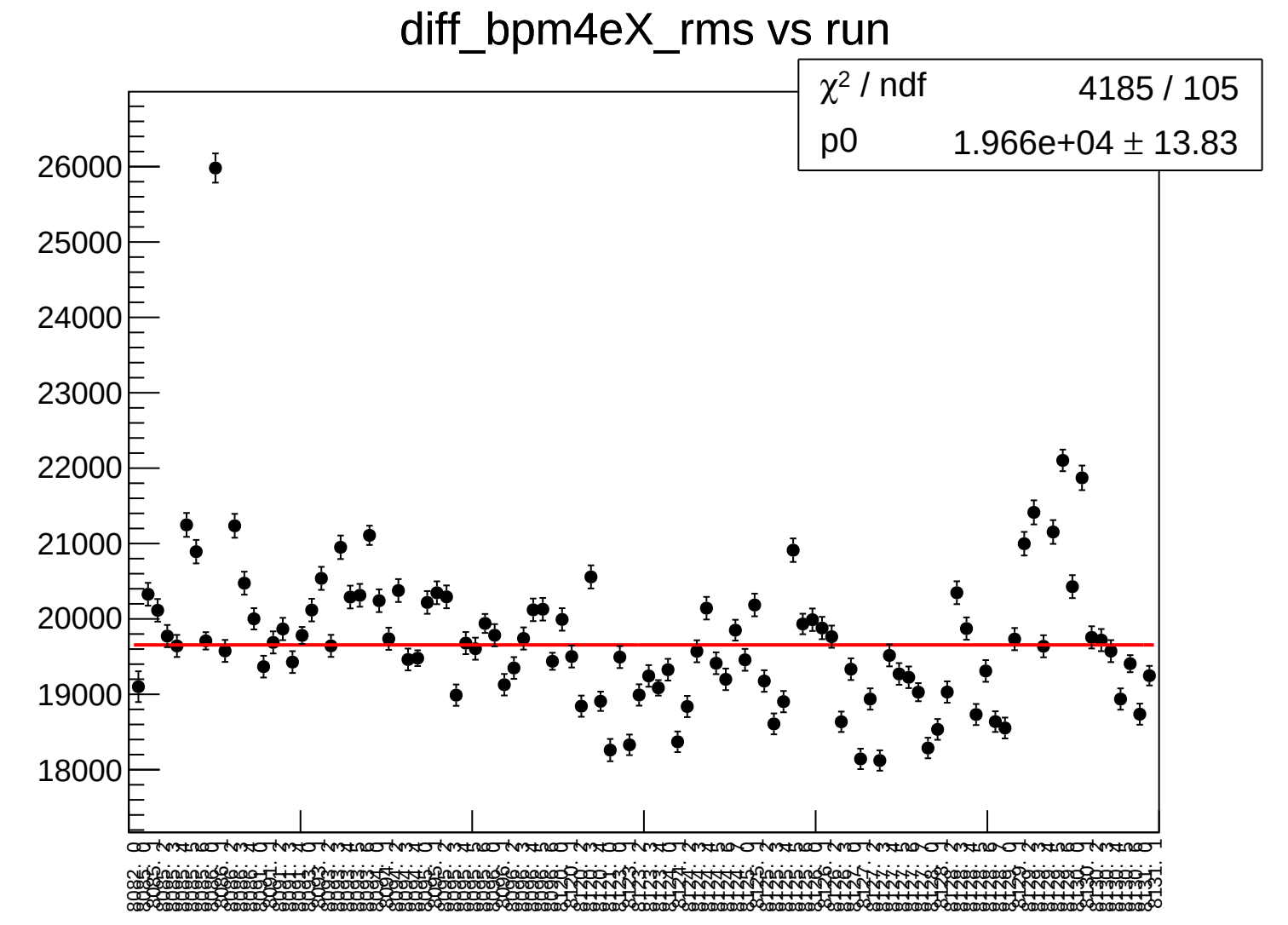

diff_bpm4aY_mean vs run
χ² / ndf 92.55 / 105
p0 2.304 ± 6.361
200
100
0
−100
−200
−300
pull
Entries 106
Mean −1477
Std Dev 0
2
1
0
−1
−2

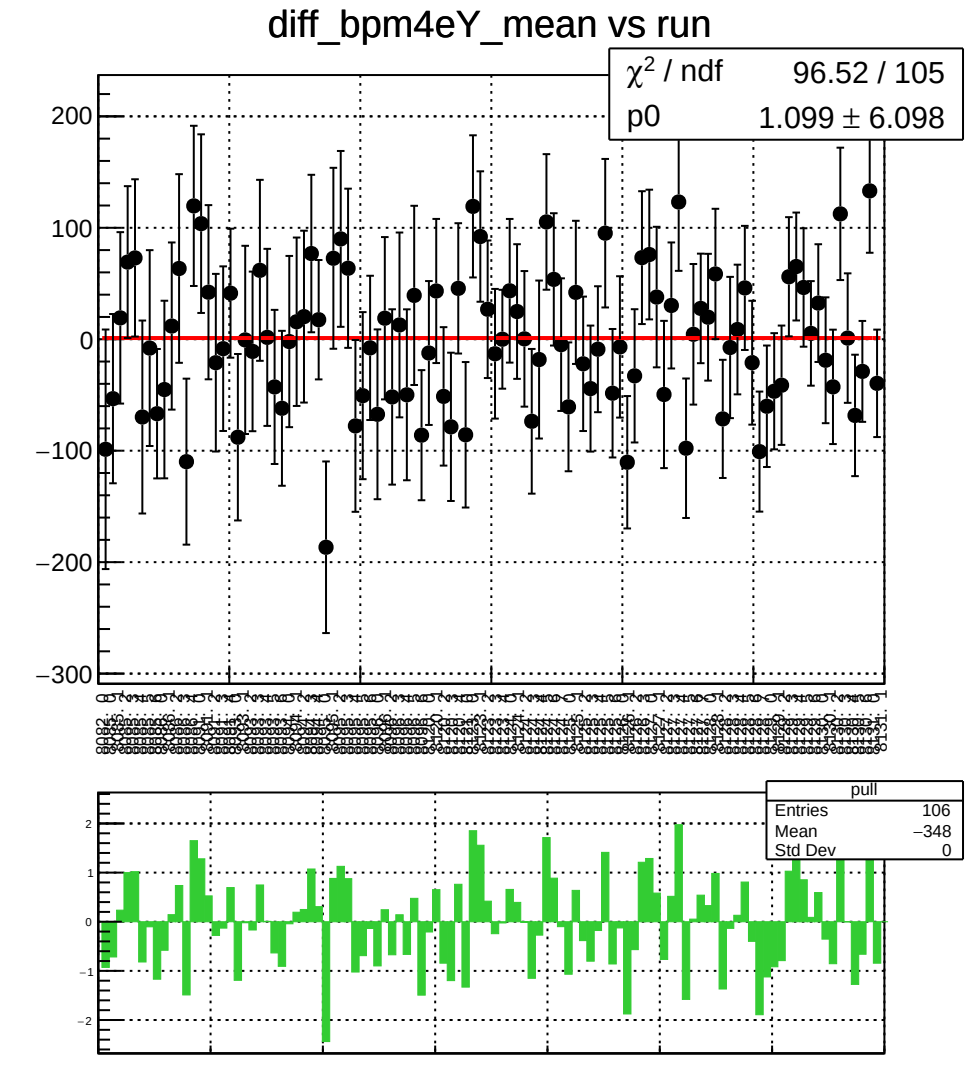

pull1D
Entries 106
Mean −0.0005795
Std Dev 0.9344
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

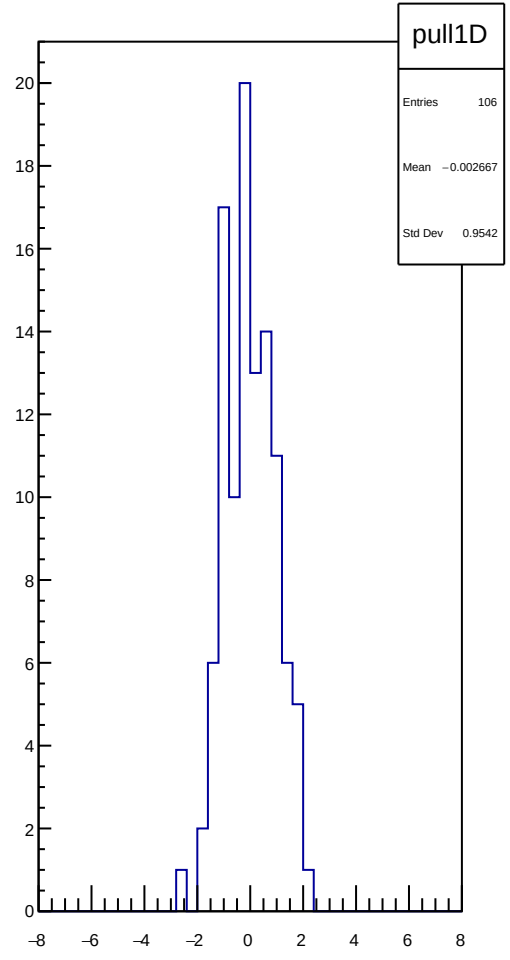

diff_bpm4aY_rms vs run
χ² / ndf 3.971e+04 / 105
p0 6335 ± 4.498
9000
8500
8000
7500
7000
6500
6000
5500
5000
4500

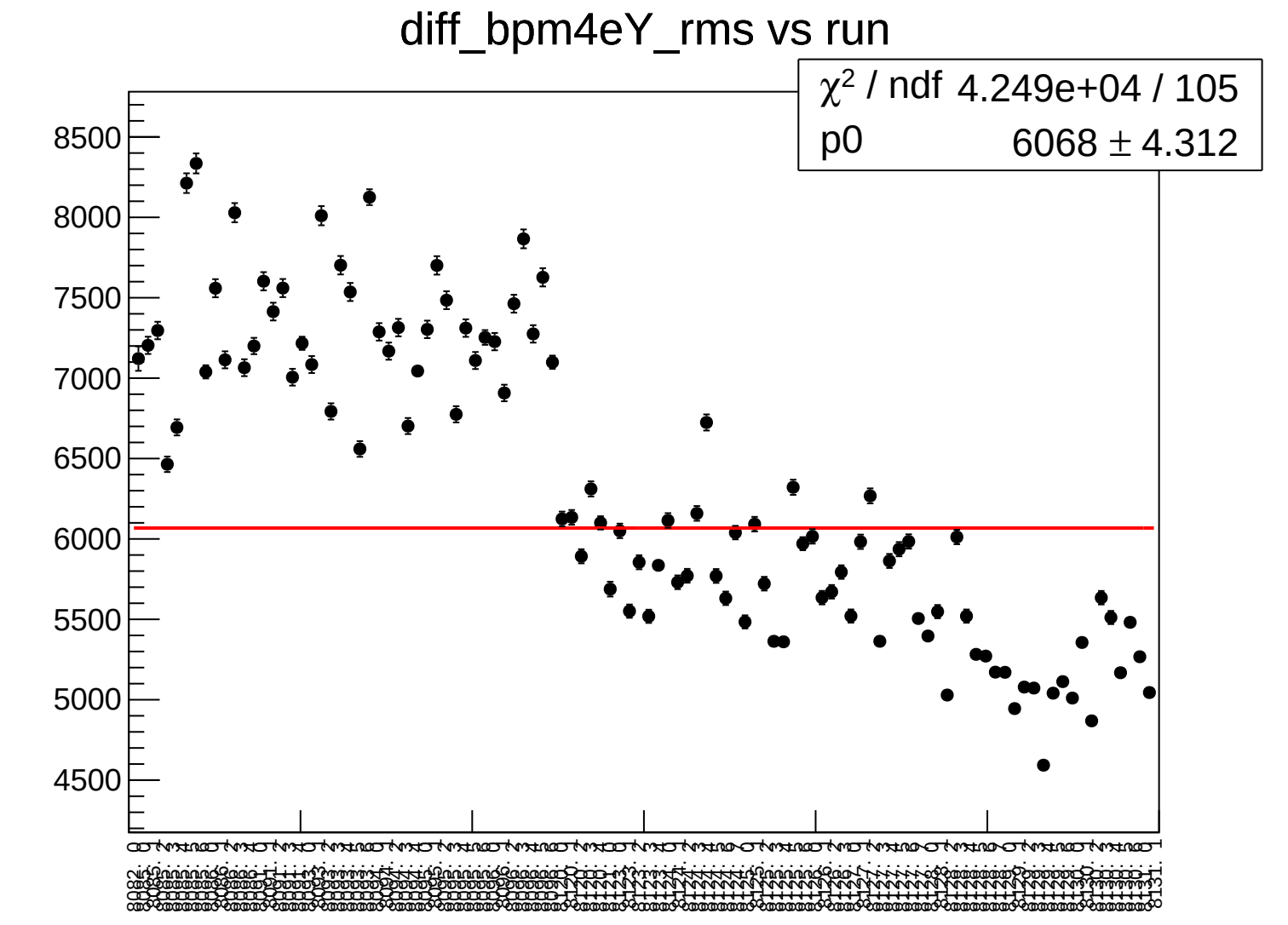

diff_bpm4eX_mean vs run
χ² / ndf 70.97 / 105
p0 −27.63 ± 19.56
pull
Entries 106
Mean 43.19
Std Dev 0

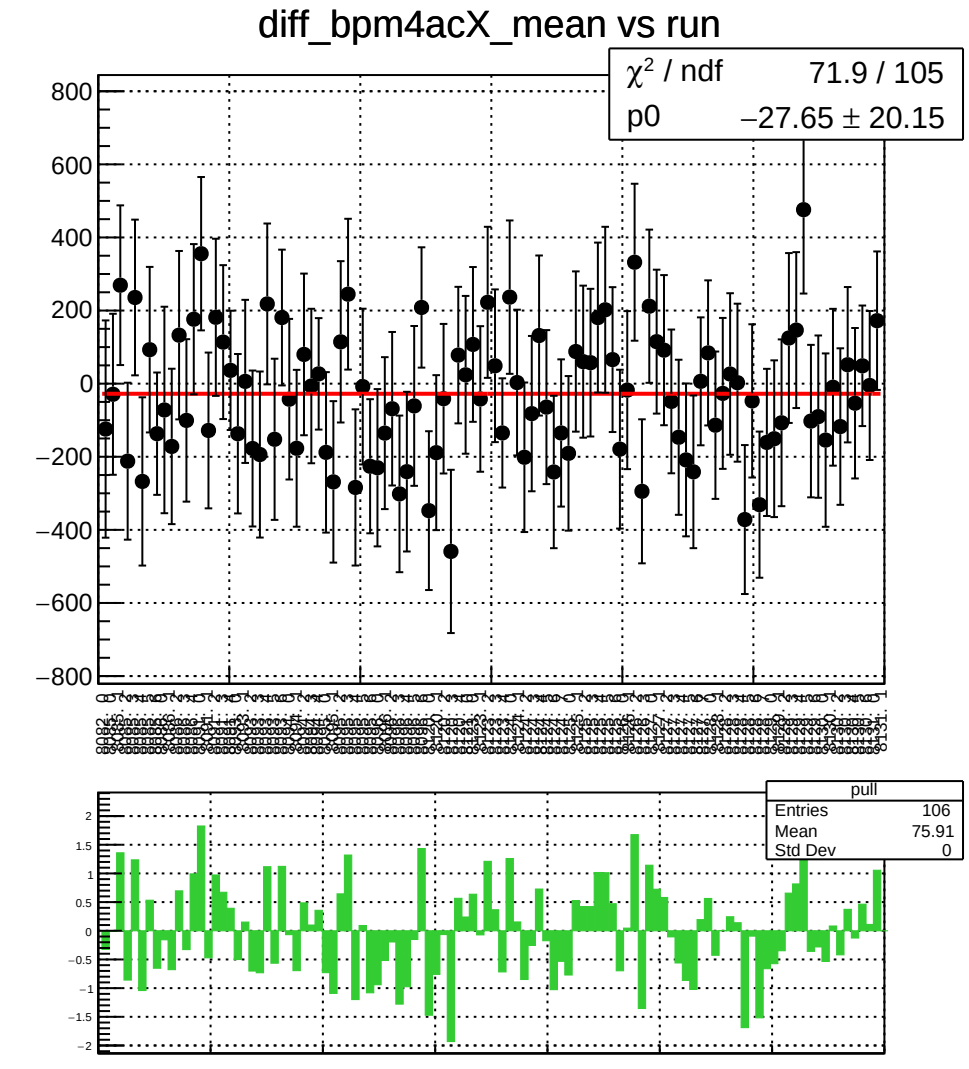

pull1D
Entries 106
Mean −0.005398
Std Dev 0.8182

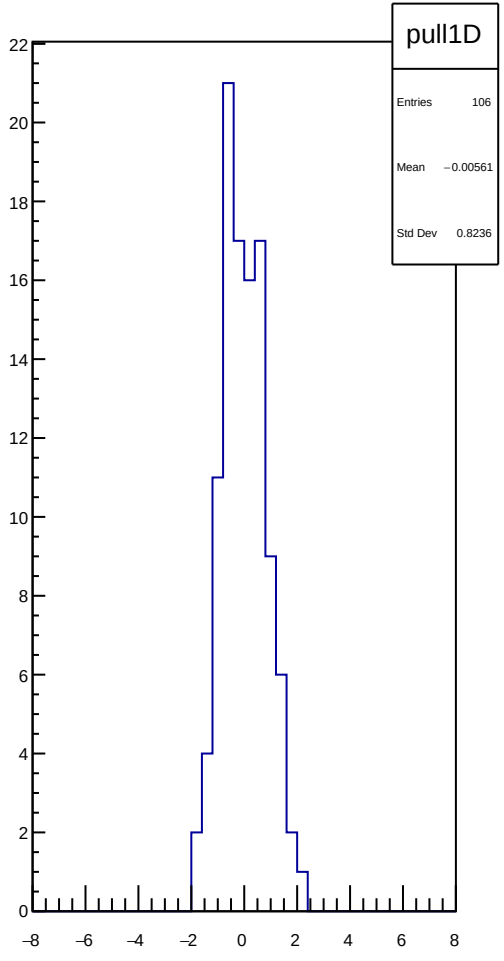

diff_bpm4eX_rms vs run
χ² / ndf 4185 / 105
p0 1.966e+04 ± 13.83
26000
25000
24000
23000
22000
21000
20000
19000
18000

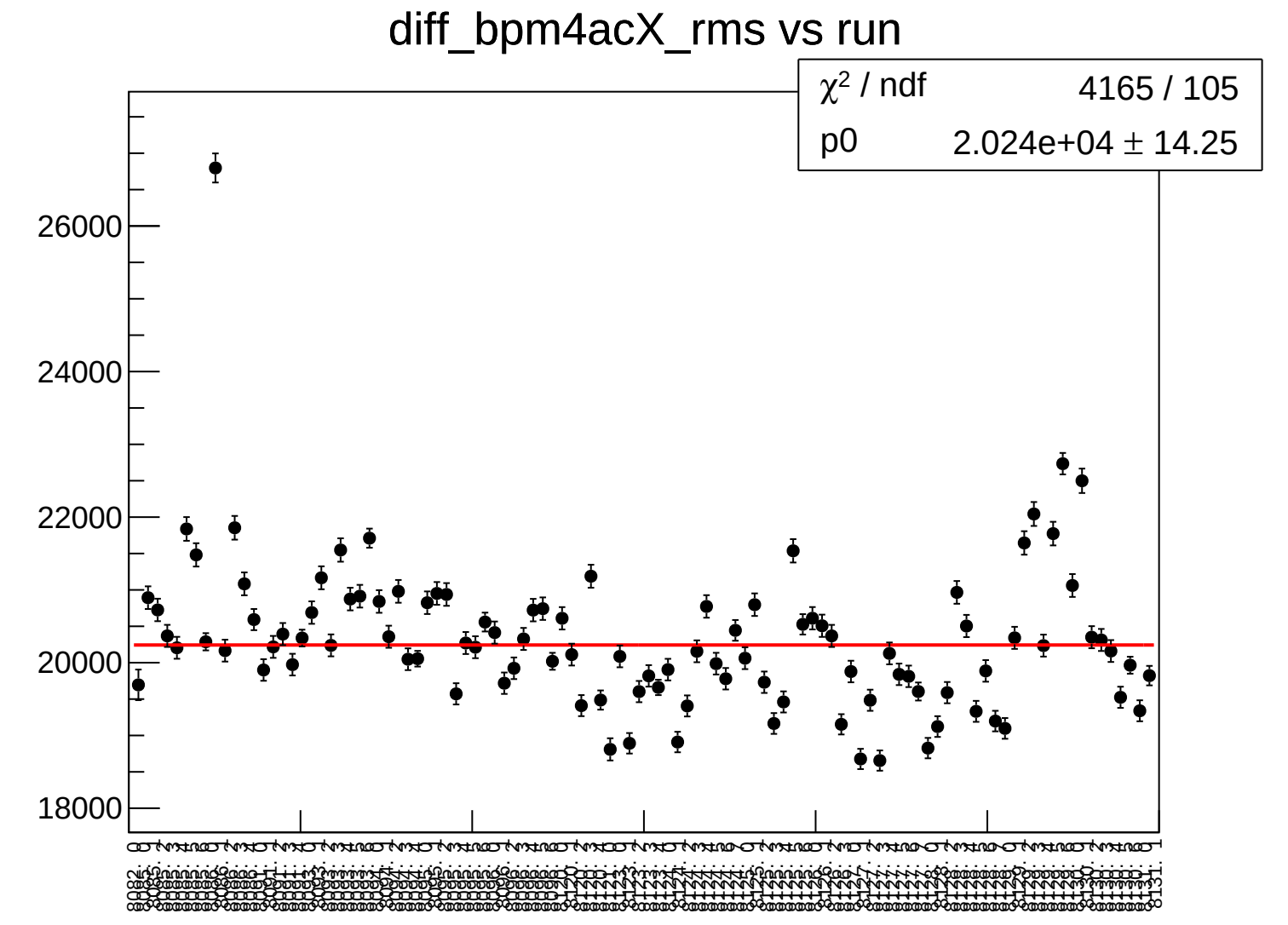

diff_bpm4eY_mean vs run
χ² / ndf 96.52 / 105
p0 1.099 ± 6.098
200
100
0
−100
−200
−300
pull
Entries 106
Mean −348
Std Dev 0
2
1
0
−1
−2

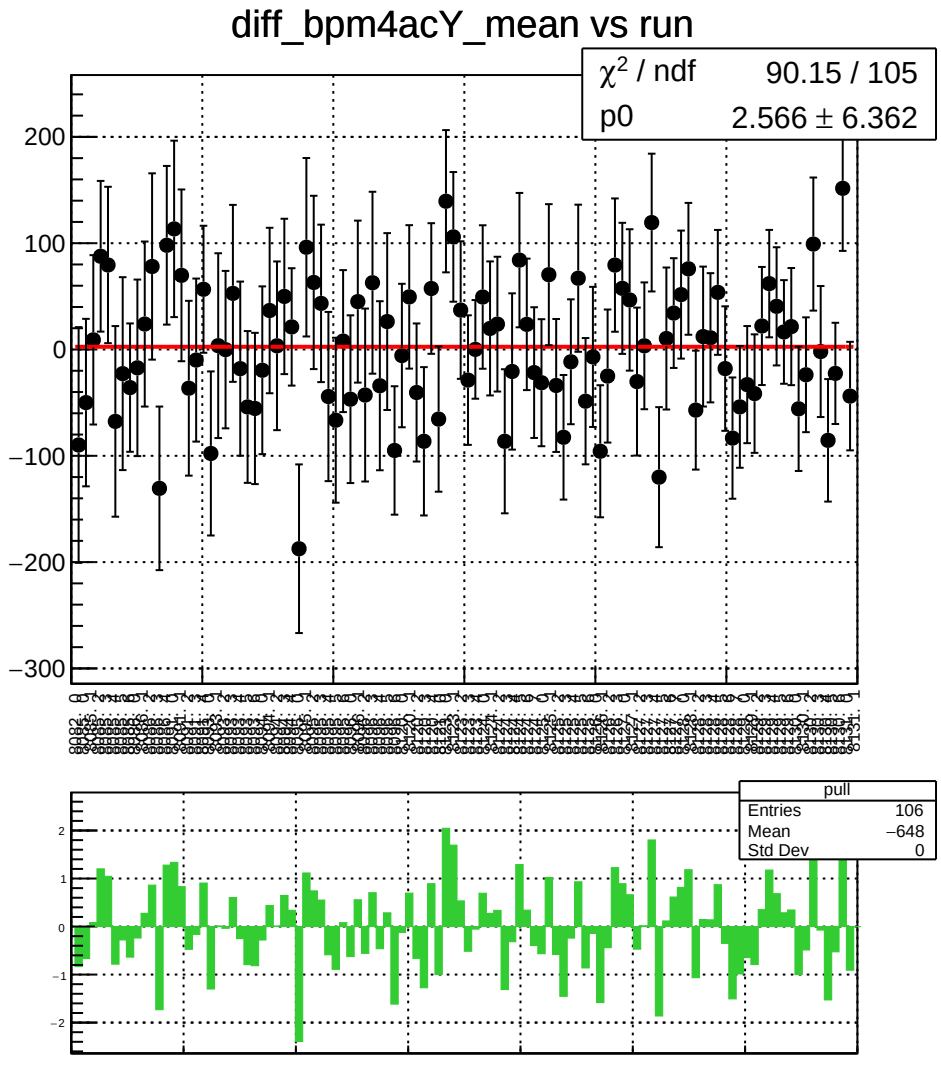

pull1D
Entries 106
Mean −0.002667
Std Dev 0.9542
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

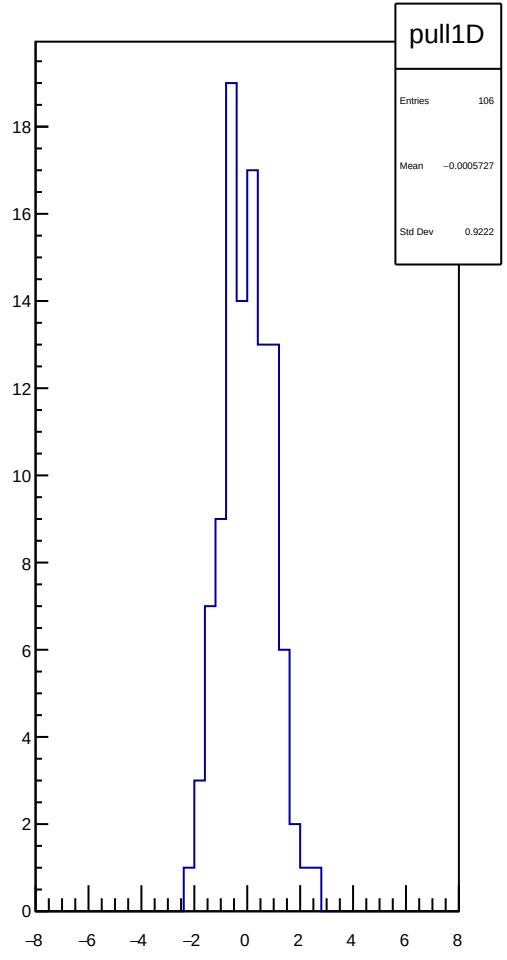

diff_bpm4eY_rms vs run
χ² / ndf 4.249e+04 / 105
p0 6068 ± 4.312
8500
8000
7500
7000
6500
6000
5500
5000
4500

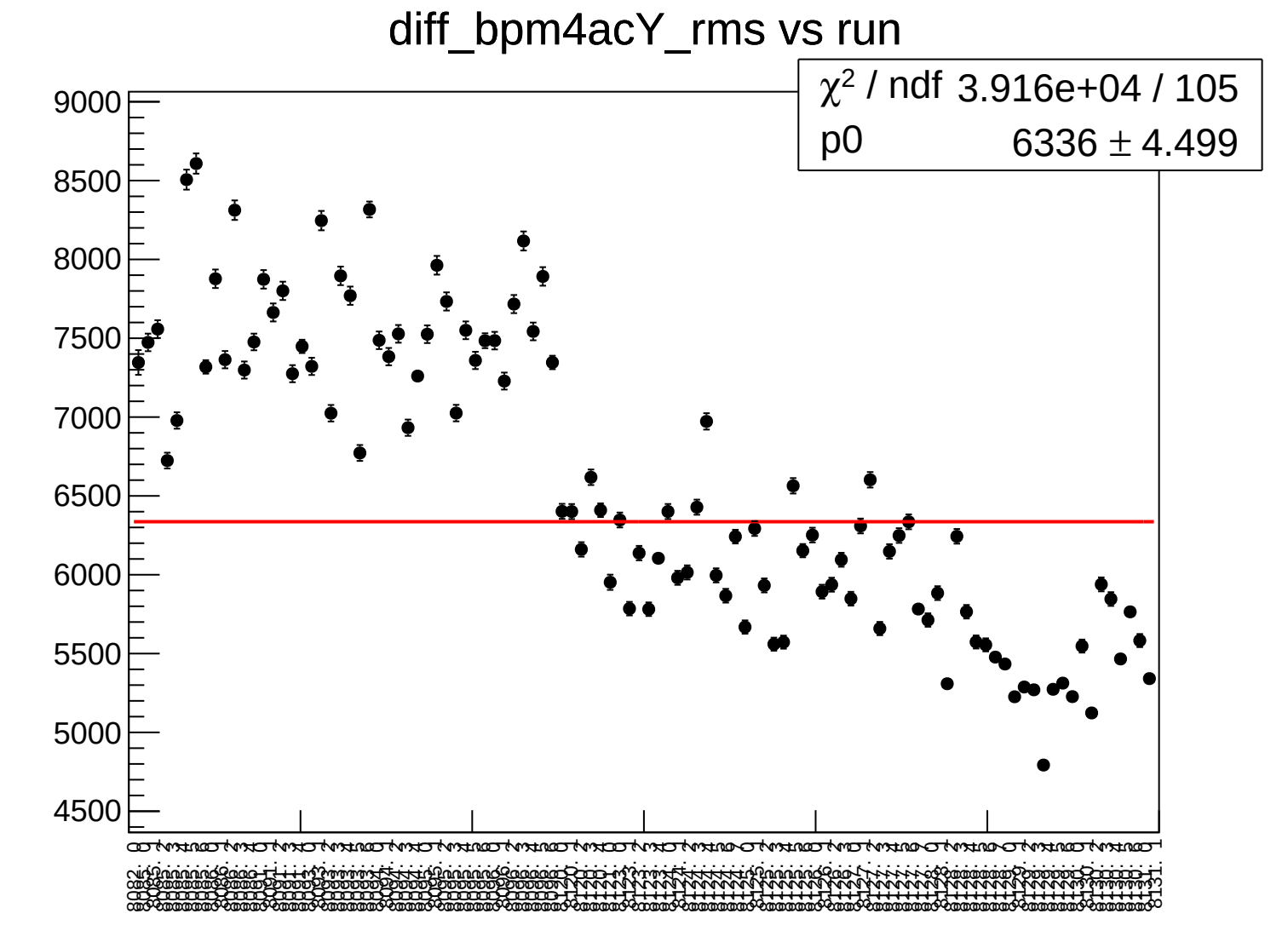

diff_bpm4acX_mean vs run
χ² / ndf 71.9 / 105
p0 −27.65 ± 20.15
pull
Entries 106
Mean 75.91
Std Dev 0

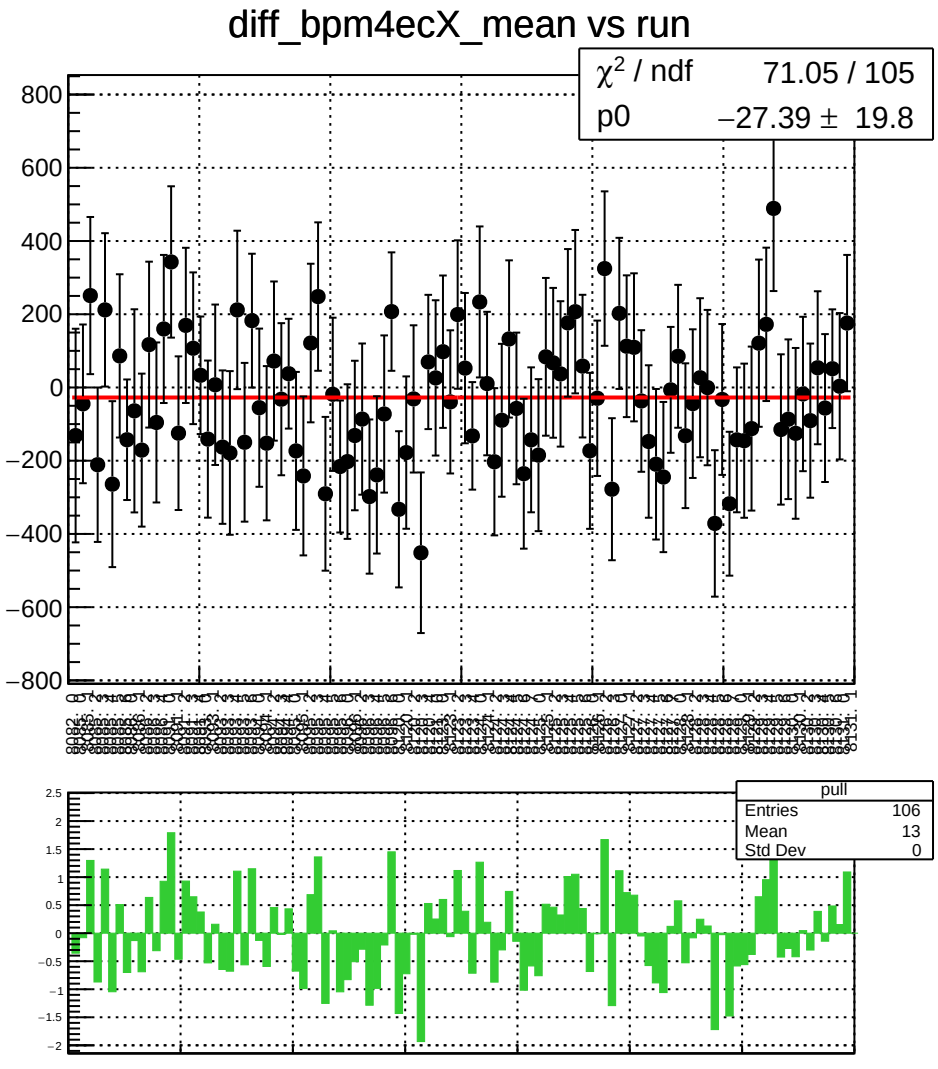

pull1D
Entries 106
Mean −0.00561
Std Dev 0.8236

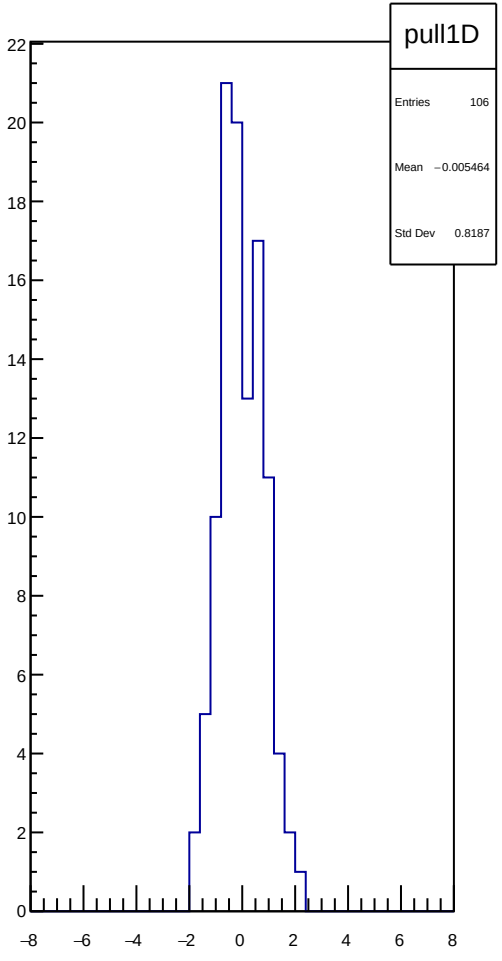

diff_bpm4acX_rms vs run
χ² / ndf 4165 / 105
p0 2.024e+04 ± 14.25
26000
24000
22000
20000
18000

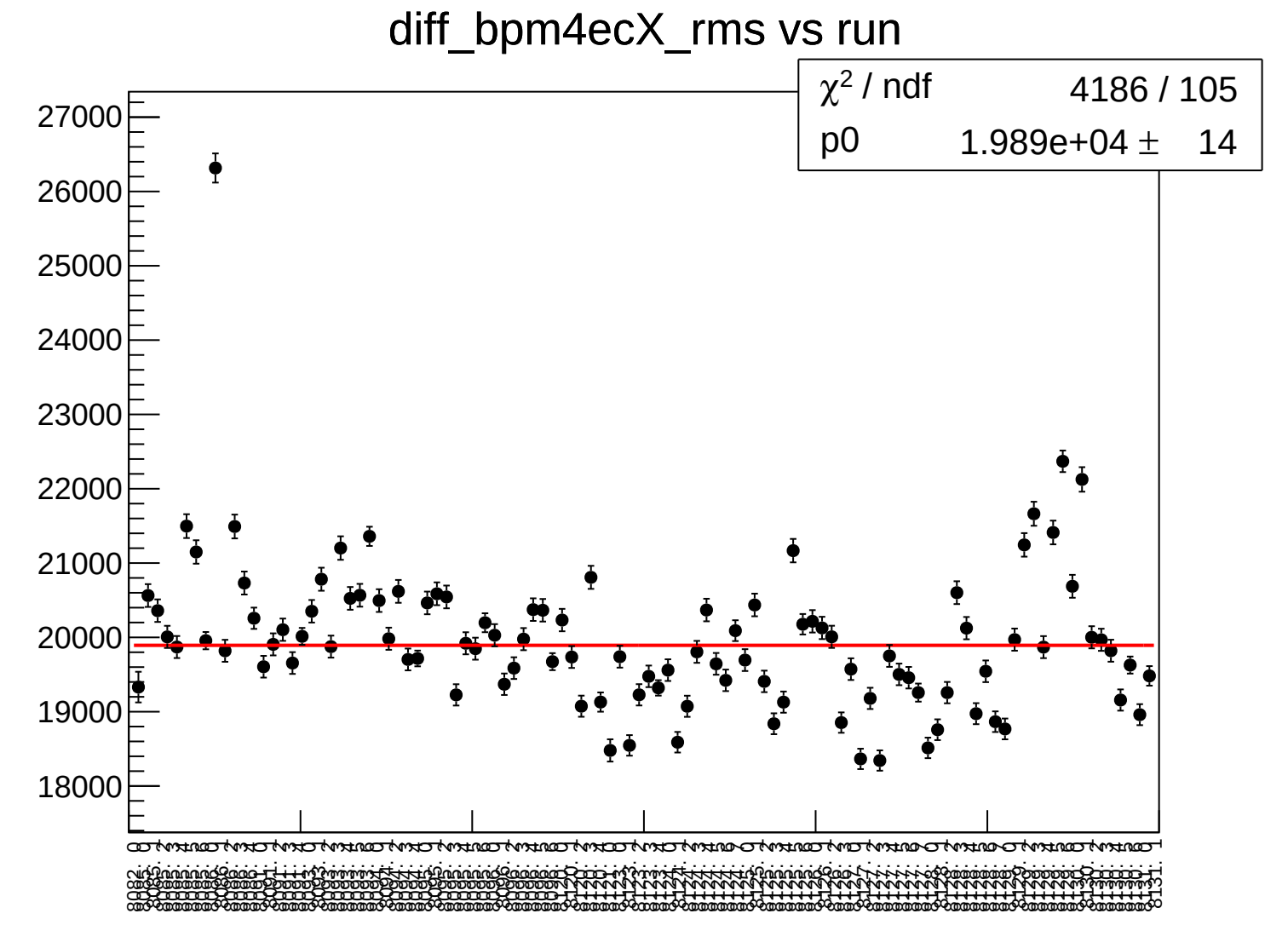

diff_bpm4acY_mean vs run
χ² / ndf 90.15 / 105
p0 2.566 ± 6.362
200
100
0
−100
−200
−300
pull
Entries 106
Mean −648
Std Dev 0
2
1
0
−1
−2

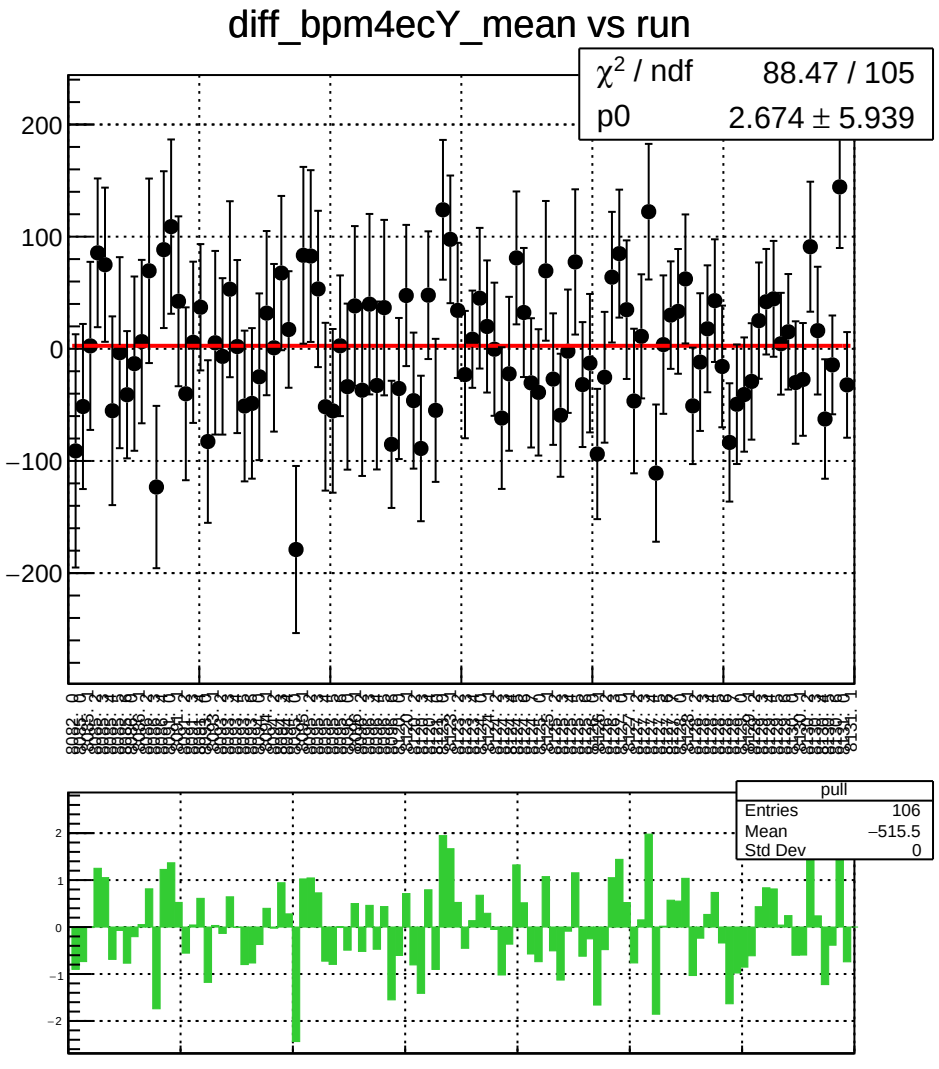

pull1D
Entries 106
Mean −0.0005727
Std Dev 0.9222
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

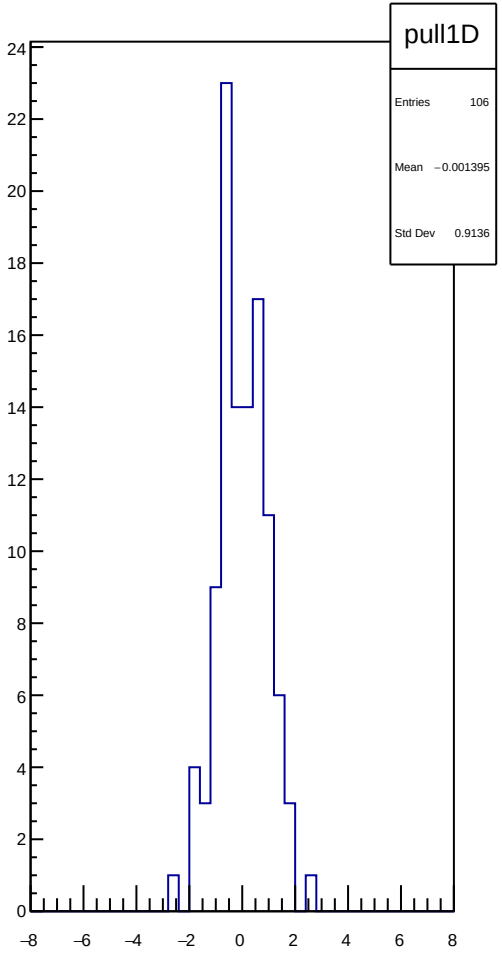

diff_bpm4acY_rms vs run
χ² / ndf 3.916e+04 / 105
p0 6336 ± 4.499
9000
8500
8000
7500
7000
6500
6000
5500
5000
4500

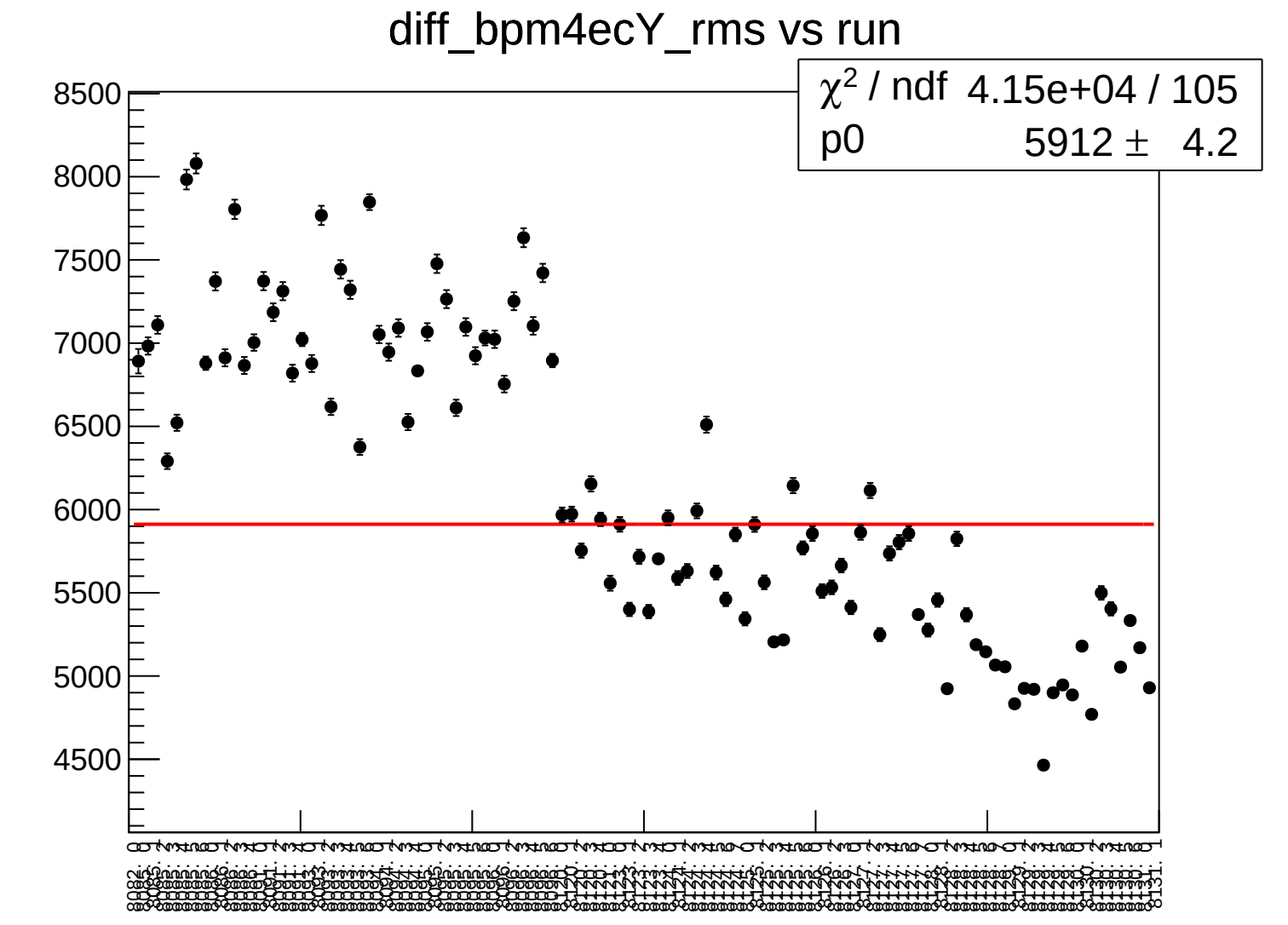

diff_bpm4ecX_mean vs run
χ² / ndf 71.05 / 105
p0 −27.39 ± 19.8
pull
Entries 106
Mean 13
Std Dev 0

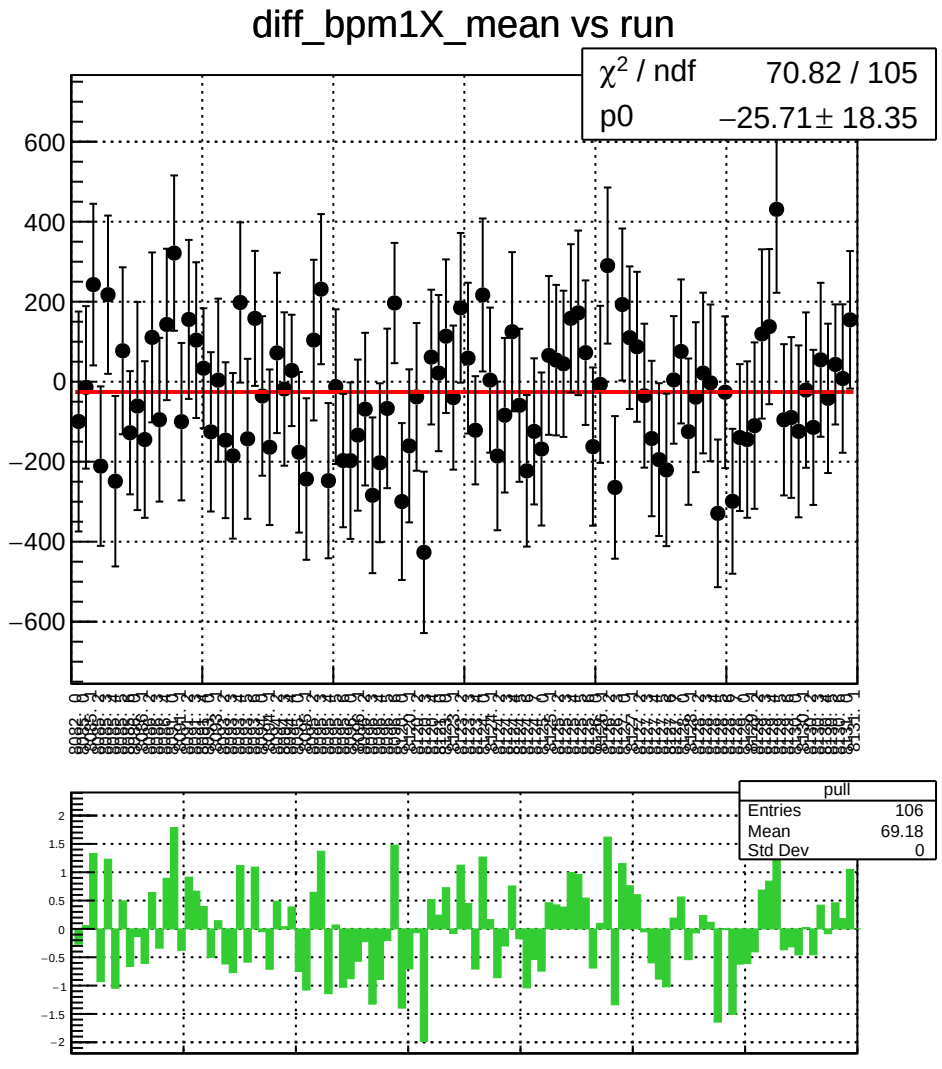

pull1D
Entries 106
Mean −0.005464
Std Dev 0.8187

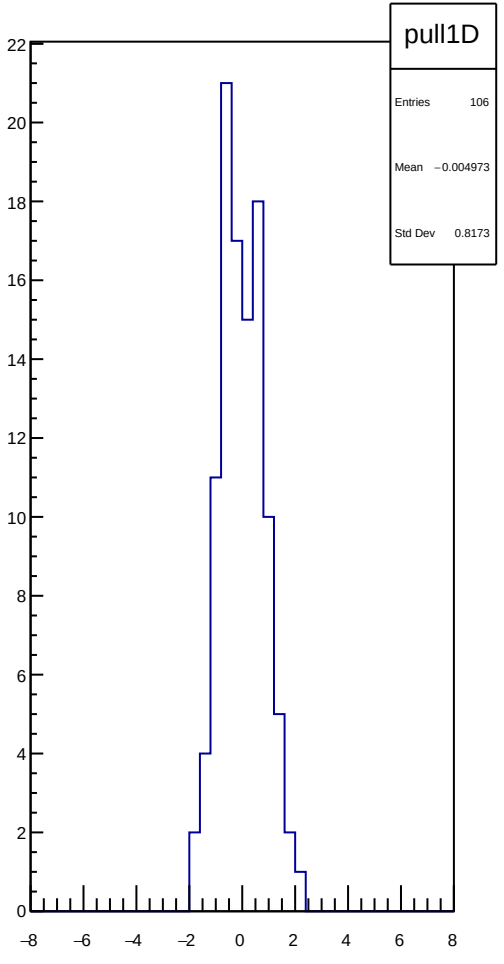

diff_bpm4ecX_rms vs run
χ² / ndf 4186 / 105
p0 1.989e+04 ± 14
27000
26000
25000
24000
23000
22000
21000
20000
19000
18000

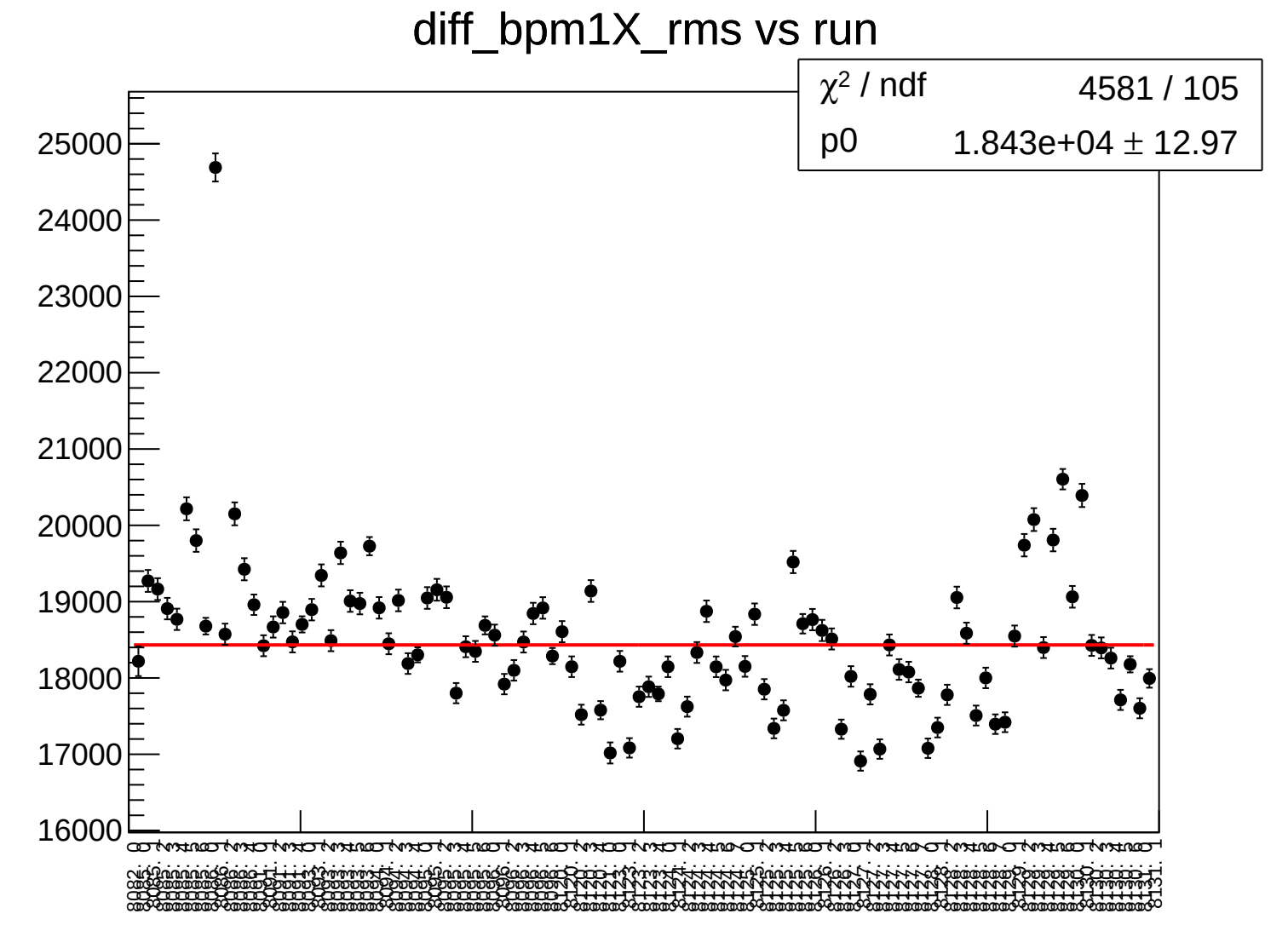

diff_bpm4ecY_mean vs run
χ² / ndf 88.47 / 105
p0 2.674 ± 5.939
200
100
0
−100
−200
pull
Entries 106
Mean −515.5
Std Dev 0
2
1
0
−1
−2

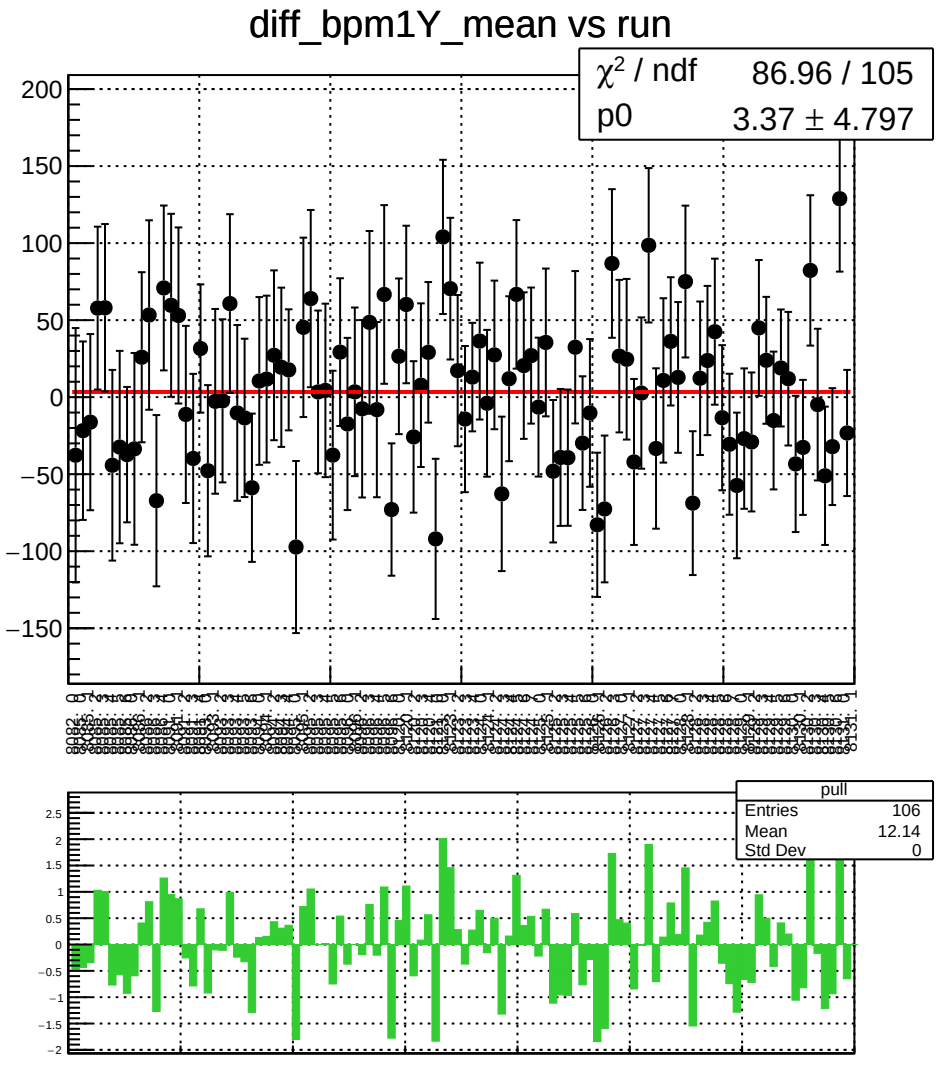

pull1D
Entries 106
Mean −0.001395
Std Dev 0.9136
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

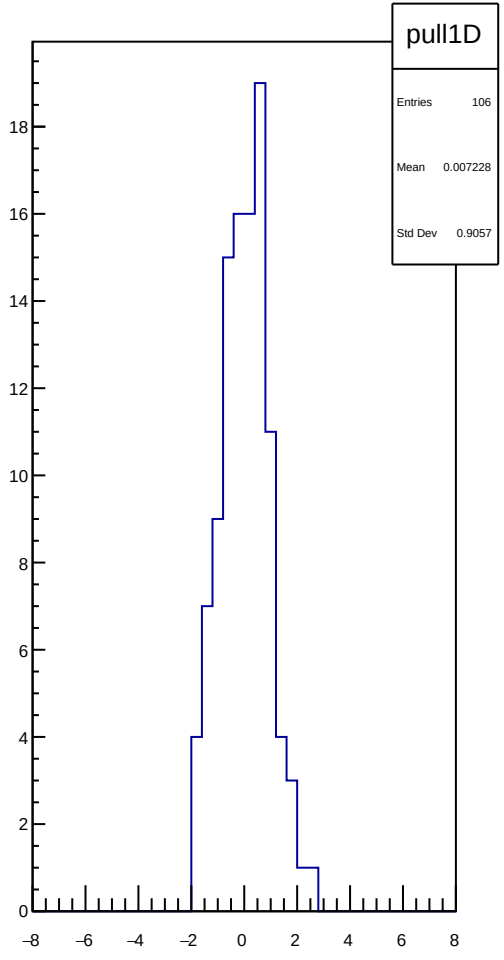

diff_bpm4ecY_rms vs run
χ² / ndf 4.15e+04 / 105
p0 5912 ± 4.2
8500
8000
7500
7000
6500
6000
5500
5000
4500

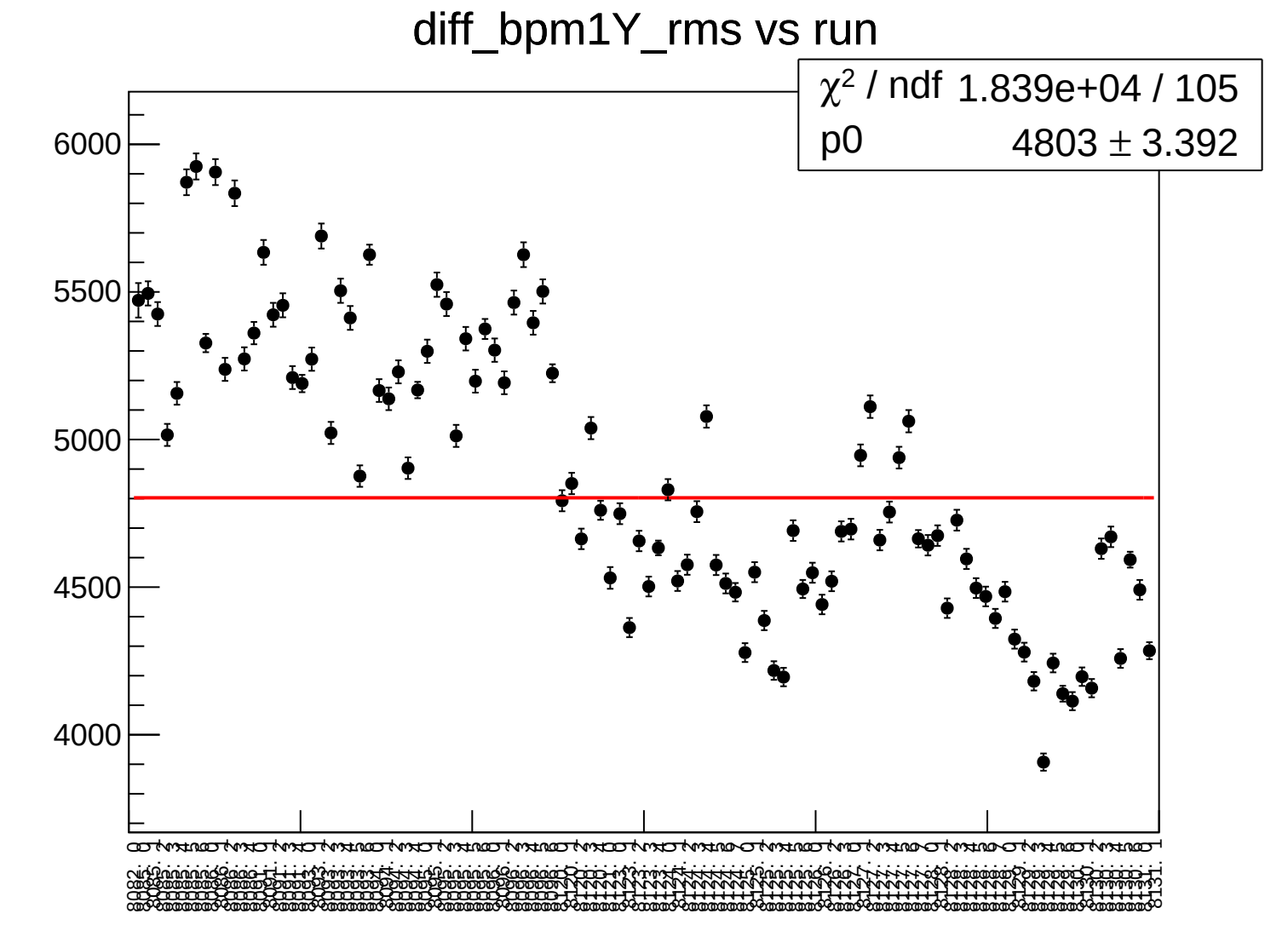

diff_bpm1X_mean vs run
χ² / ndf 70.82 / 105
p0 −25.71 ± 18.35
pull
Entries 106
Mean 69.18
Std Dev 0

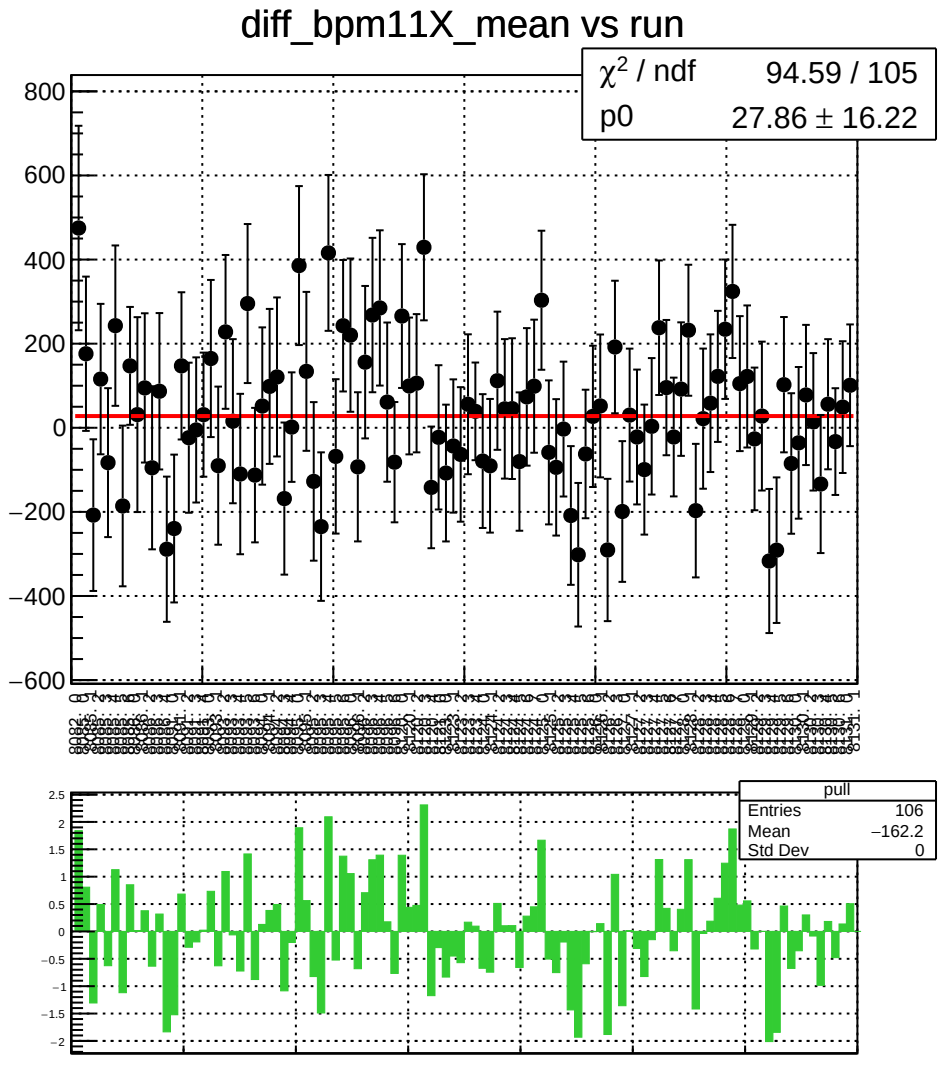

pull1D
Entries 106
Mean −0.004973
Std Dev 0.8173

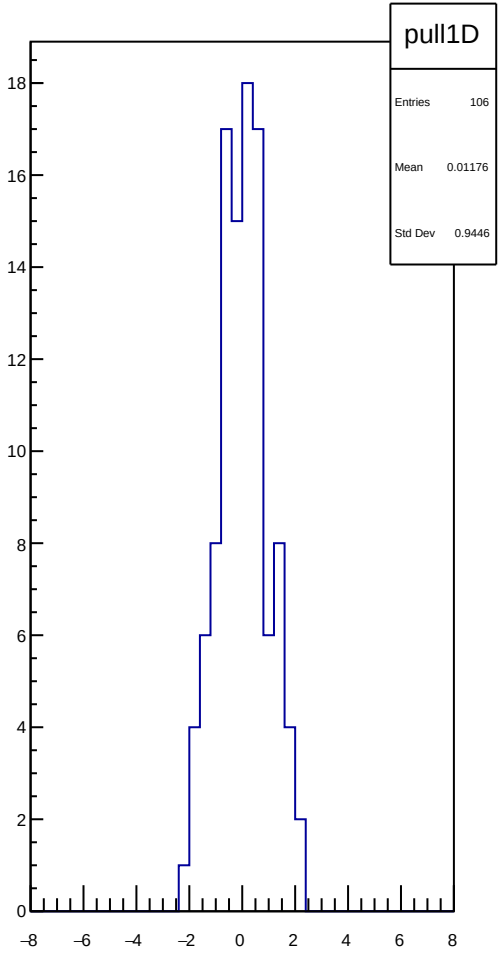

diff_bpm1X_rms vs run
χ² / ndf 4581 / 105
p0 1.843e+04 ± 12.97
25000
24000
23000
22000
21000
20000
19000
18000
17000
16000

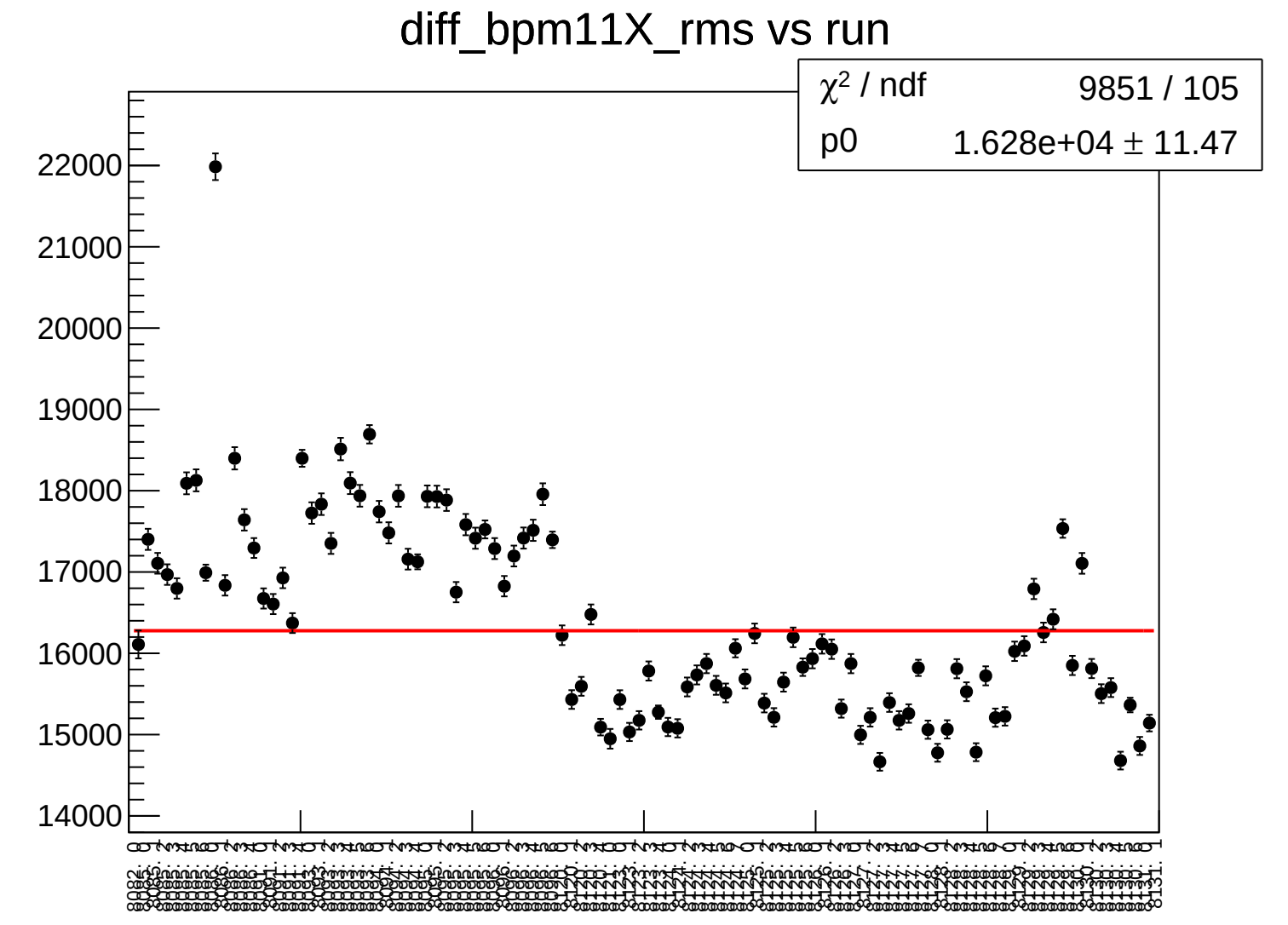

diff_bpm1Y_mean vs run
χ² / ndf 86.96 / 105
p0 3.37 ± 4.797
pull
Entries 106
Mean 12.14
Std Dev 0

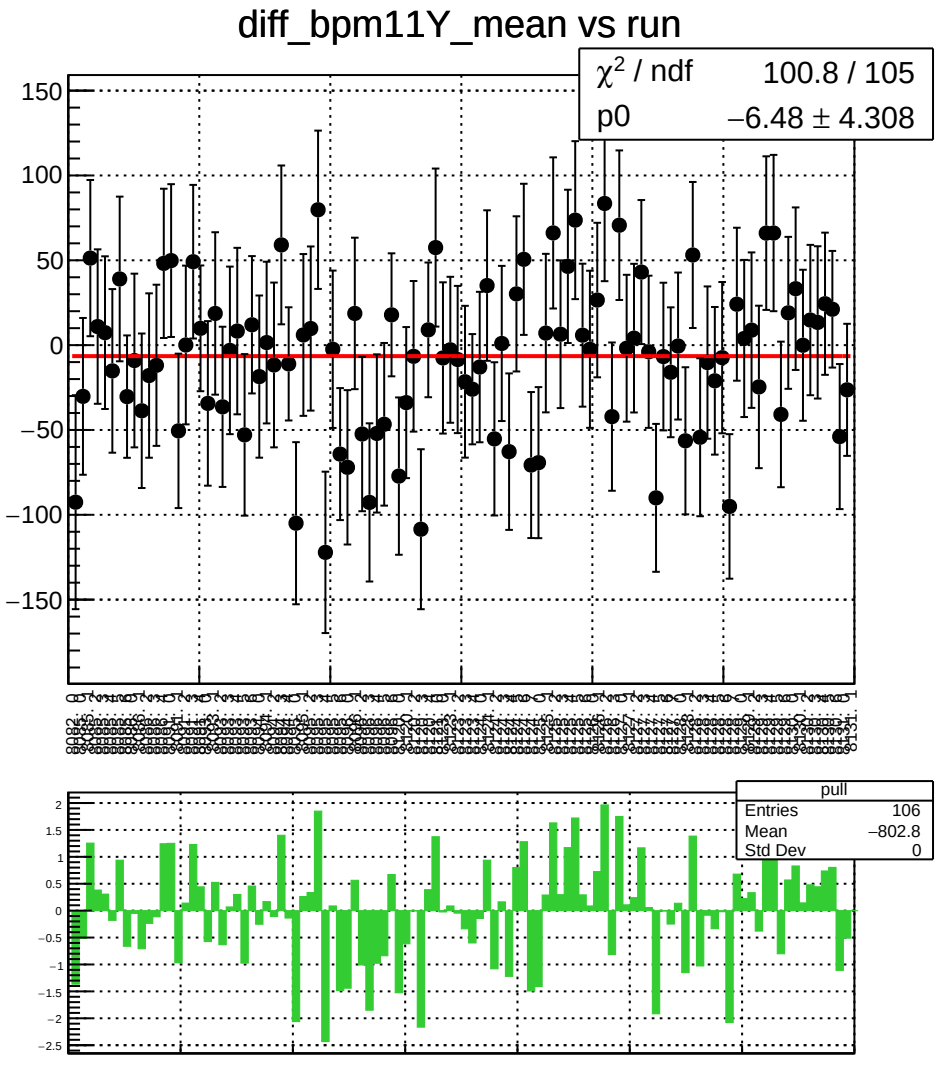

pull1D
Entries 106
Mean 0.007228
Std Dev 0.9057

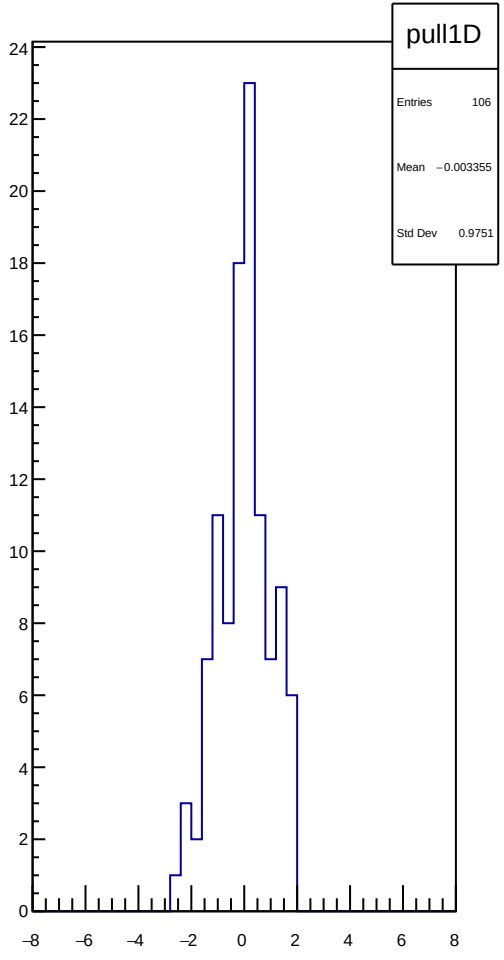

diff_bpm1Y_rms vs run
χ² / ndf 1.839e+04 / 105
p0 4803 ± 3.392
6000
5500
5000
4500
4000

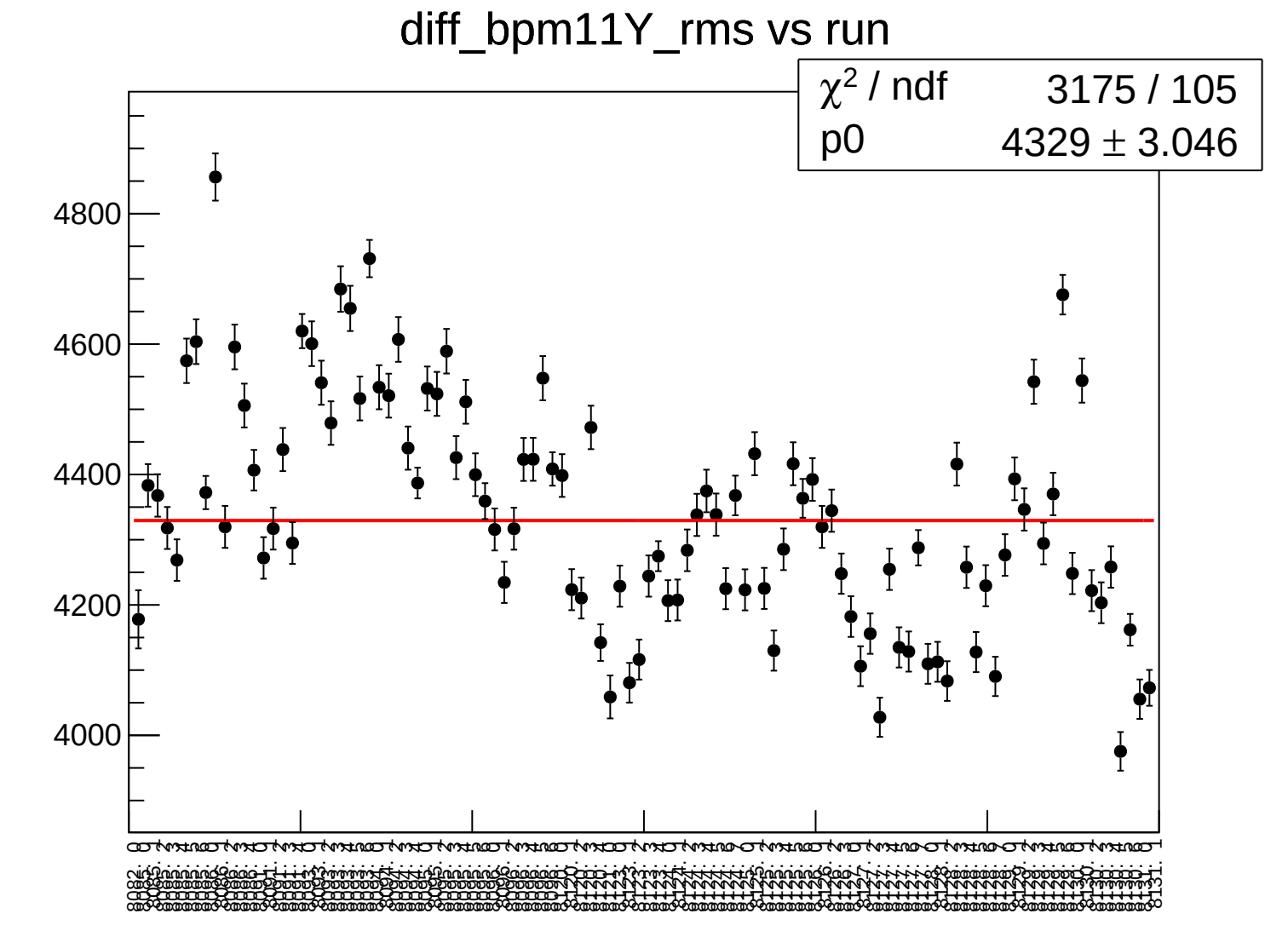

diff_bpm11X_mean vs run
χ² / ndf 94.59 / 105
p0 27.86 ± 16.22
pull
Entries 106
Mean −162.2
Std Dev 0

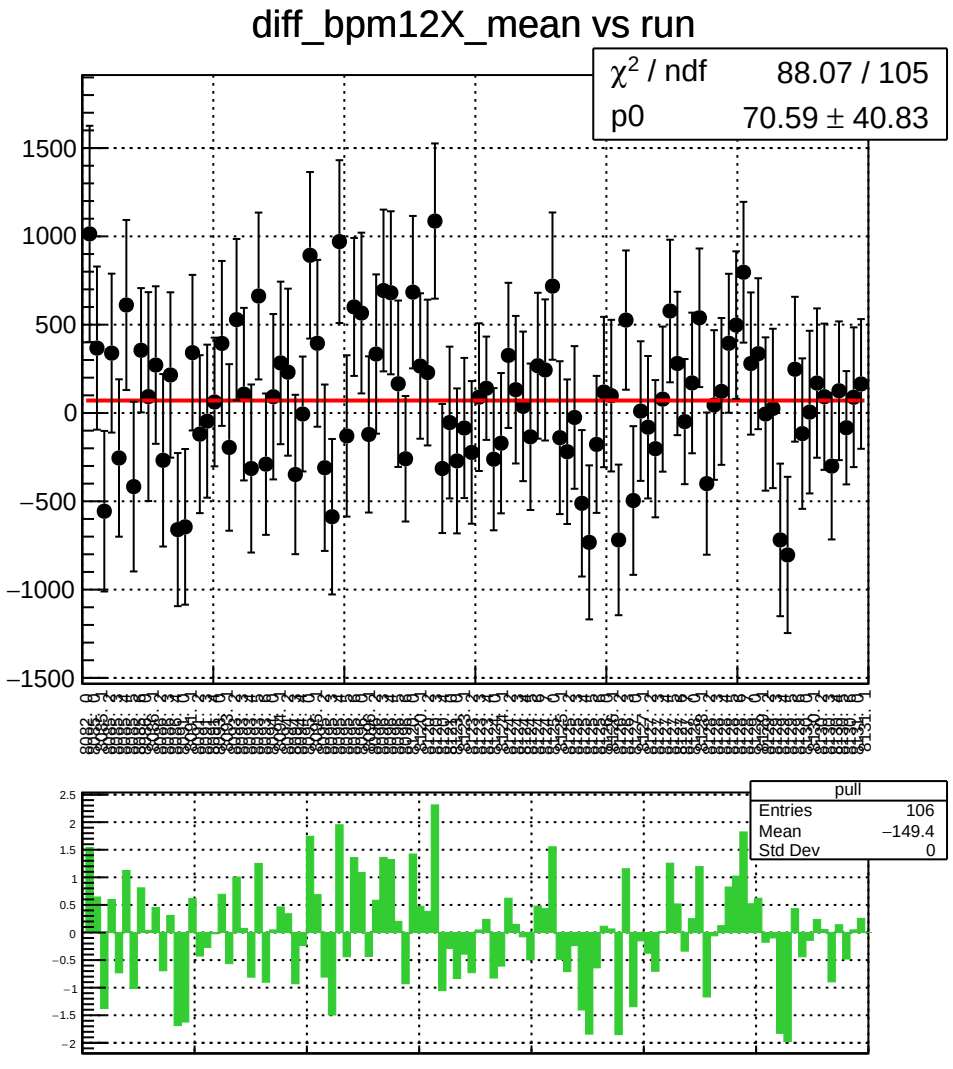

pull1D
Entries 106
Mean 0.01176
Std Dev 0.9446

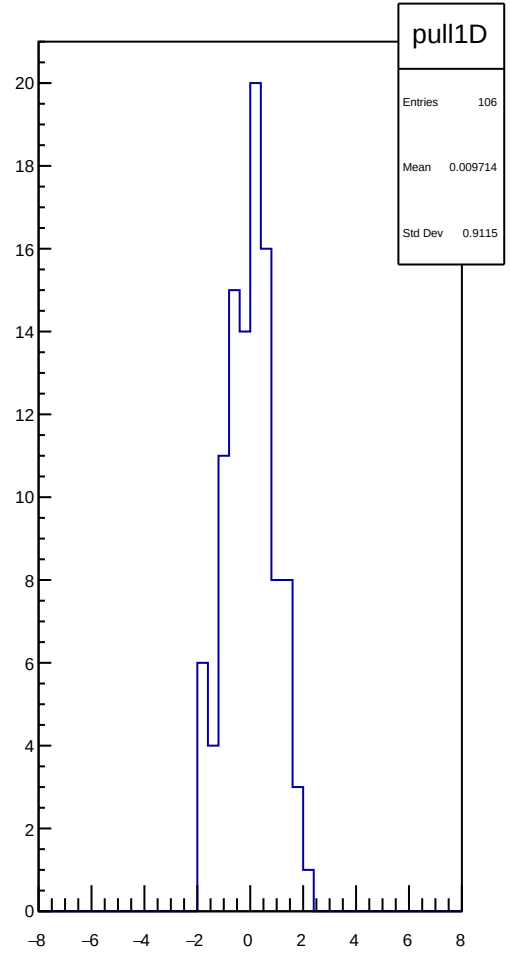

diff_bpm11X_rms vs run
χ² / ndf 9851 / 105
p0 1.628e+04 ± 11.47
22000
21000
20000
19000
18000
17000
16000
15000
14000

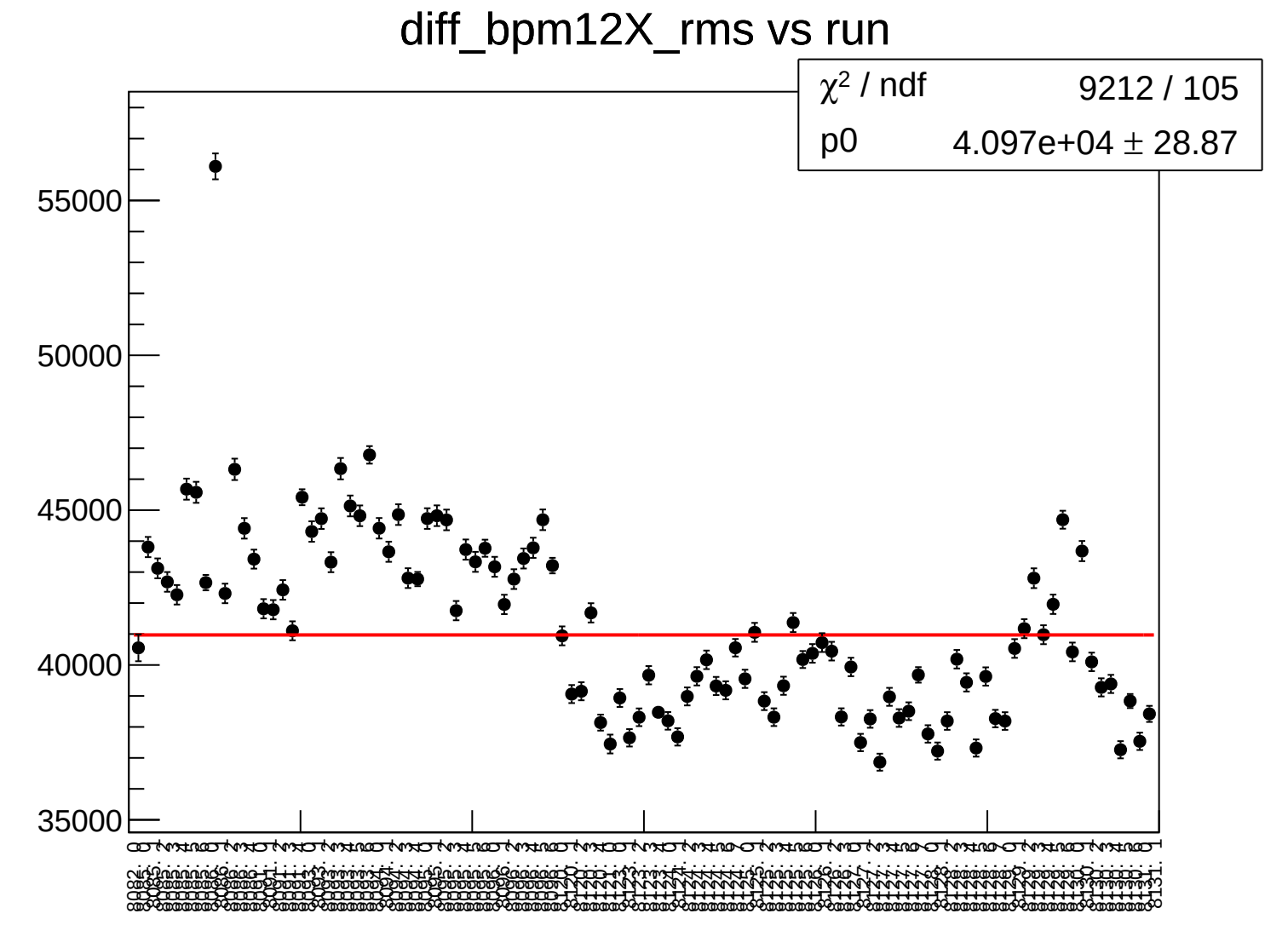

diff_bpm11Y_mean vs run
χ² / ndf 100.8 / 105
p0 −6.48 ± 4.308
150
100
50
0
−50
−100
−150
pull
Entries 106
Mean −802.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

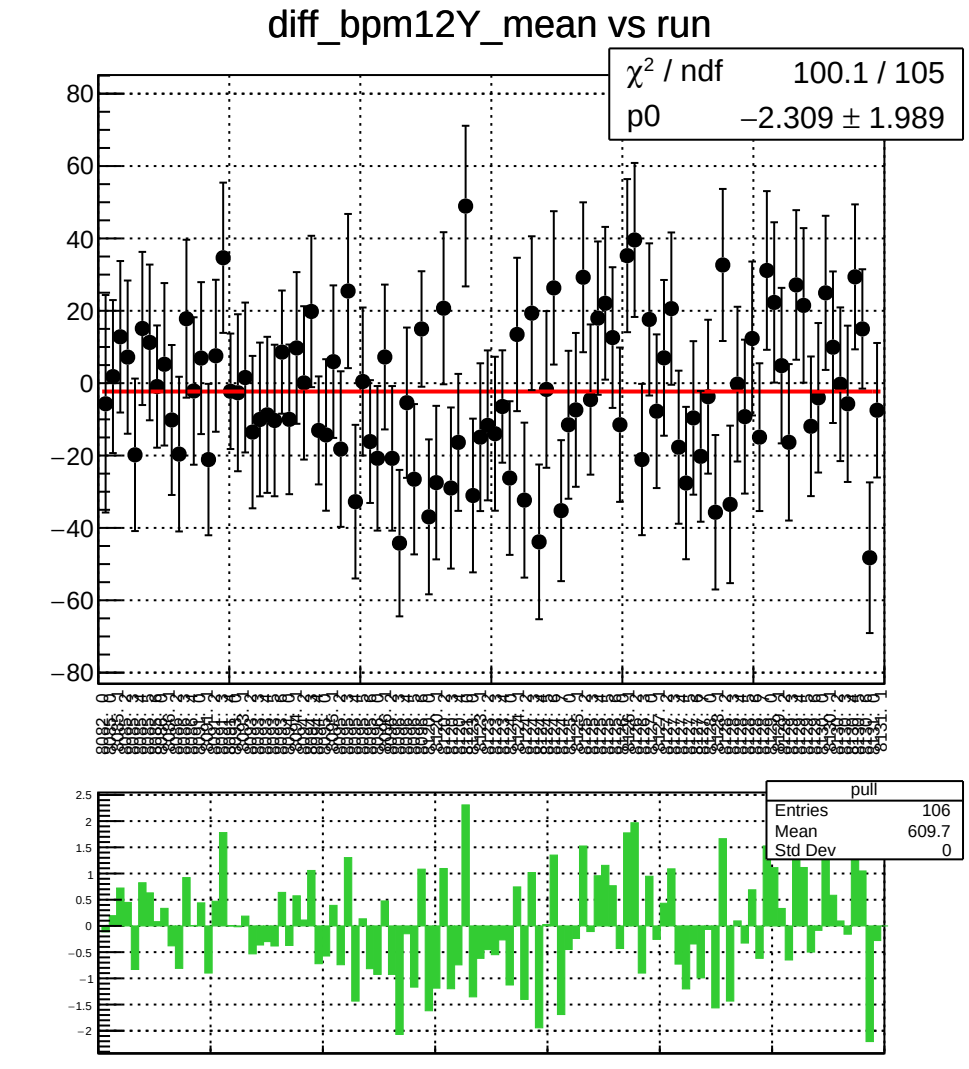

pull1D
Entries 106
Mean −0.003355
Std Dev 0.9751
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

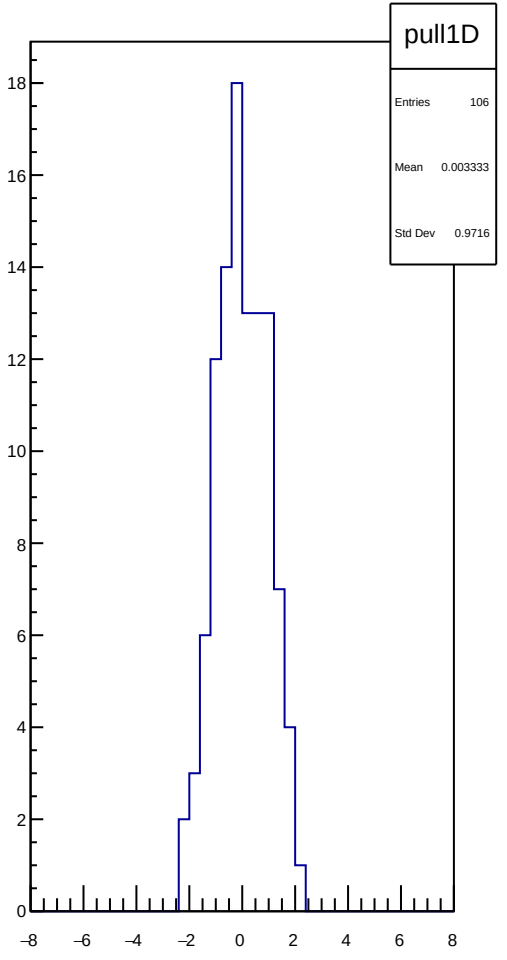

diff_bpm11Y_rms vs run
χ² / ndf 3175 / 105
p0 4329 ± 3.046
4800
4600
4400
4200
4000

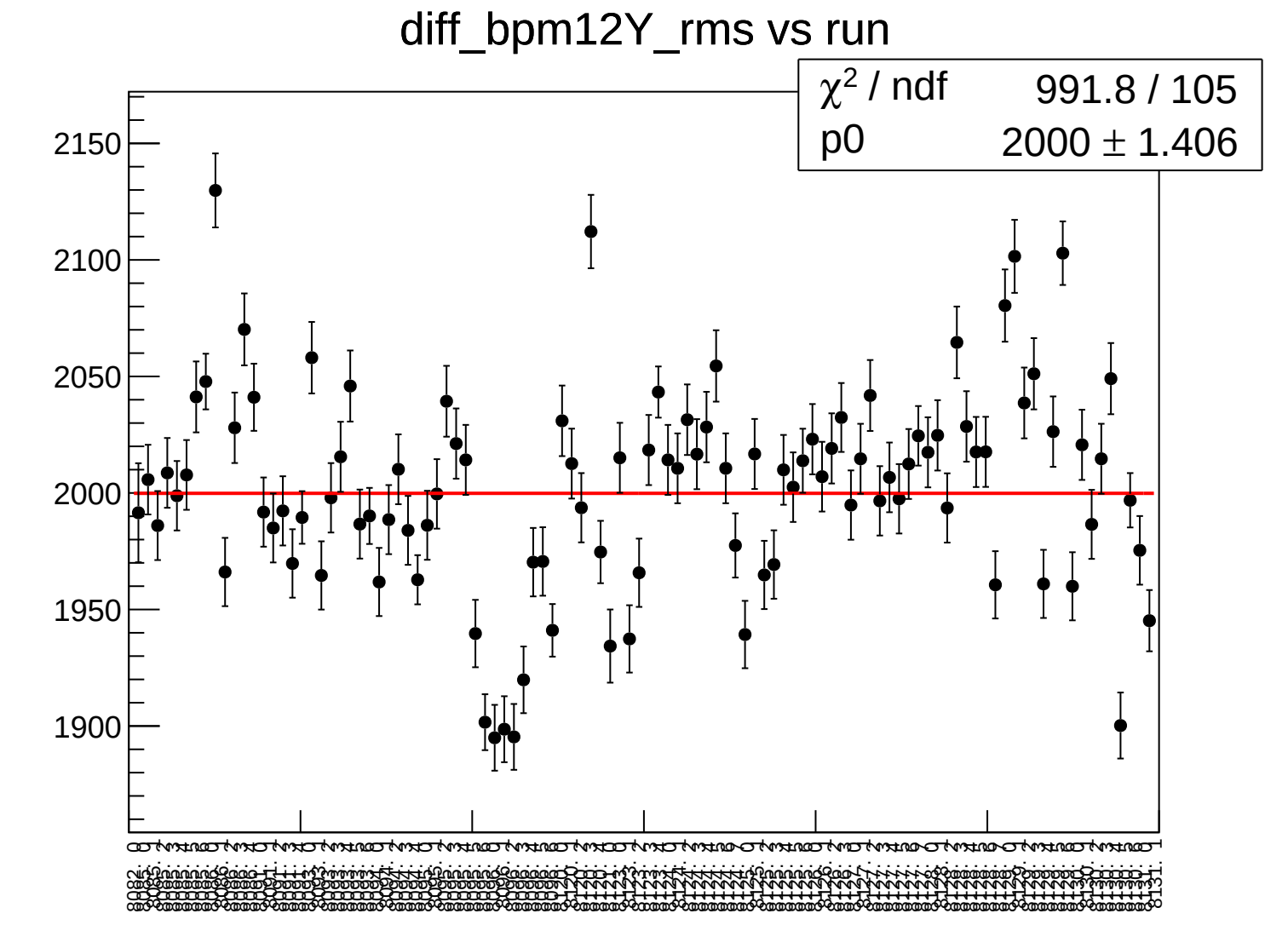

diff_bpm12X_mean vs run
χ² / ndf 88.07 / 105
p0 70.59 ± 40.83
1500
1000
500
0
−500
−1000
−1500
pull
Entries 106
Mean −149.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

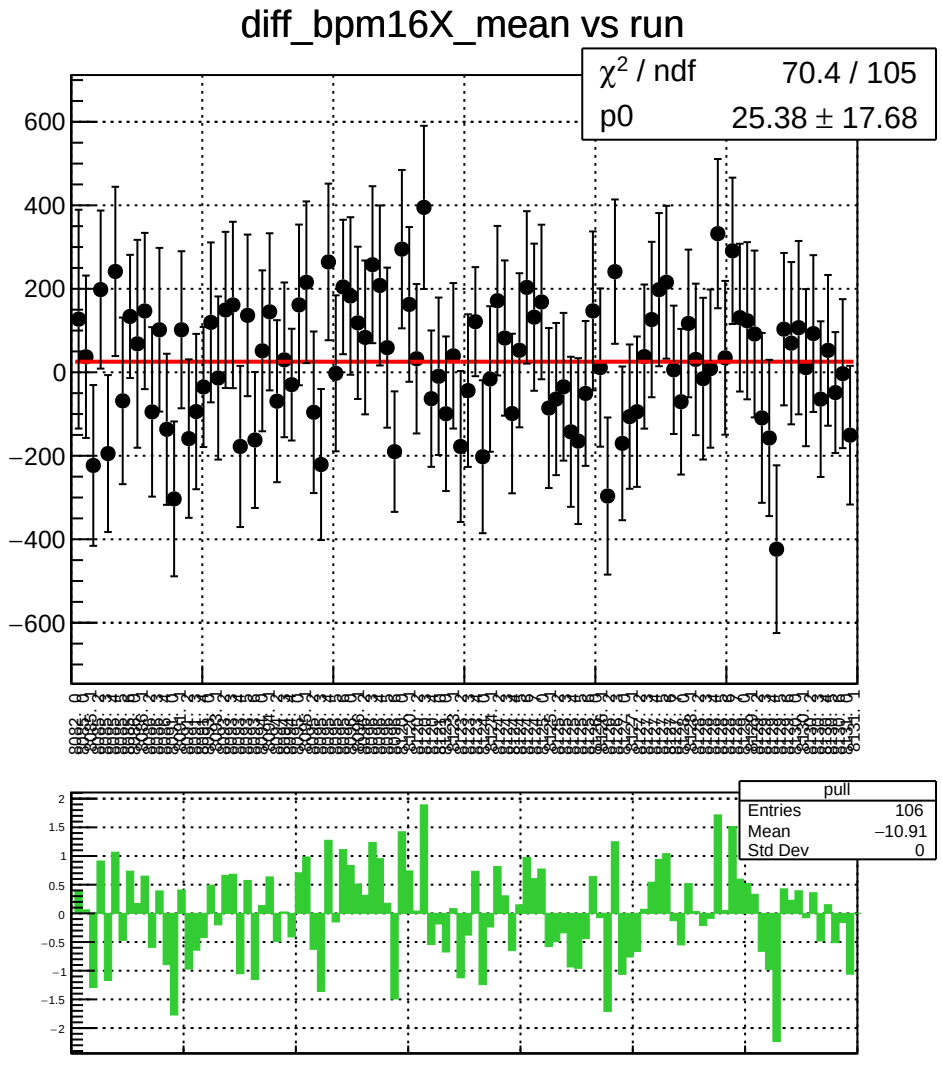

pull1D
Entries 106
Mean 0.009714
Std Dev 0.9115
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

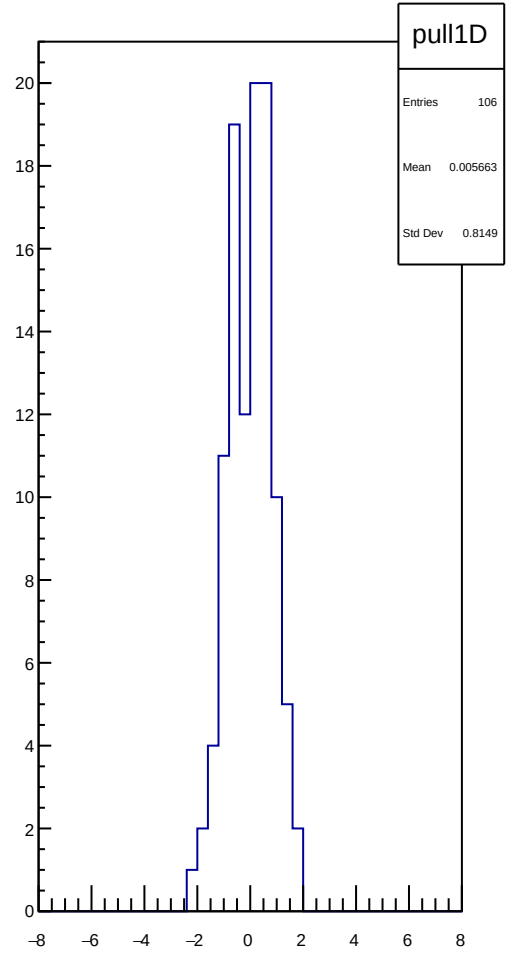

diff_bpm12X_rms vs run
χ² / ndf 9212 / 105
p0 4.097e+04 ± 28.87
55000
50000
45000
40000
35000

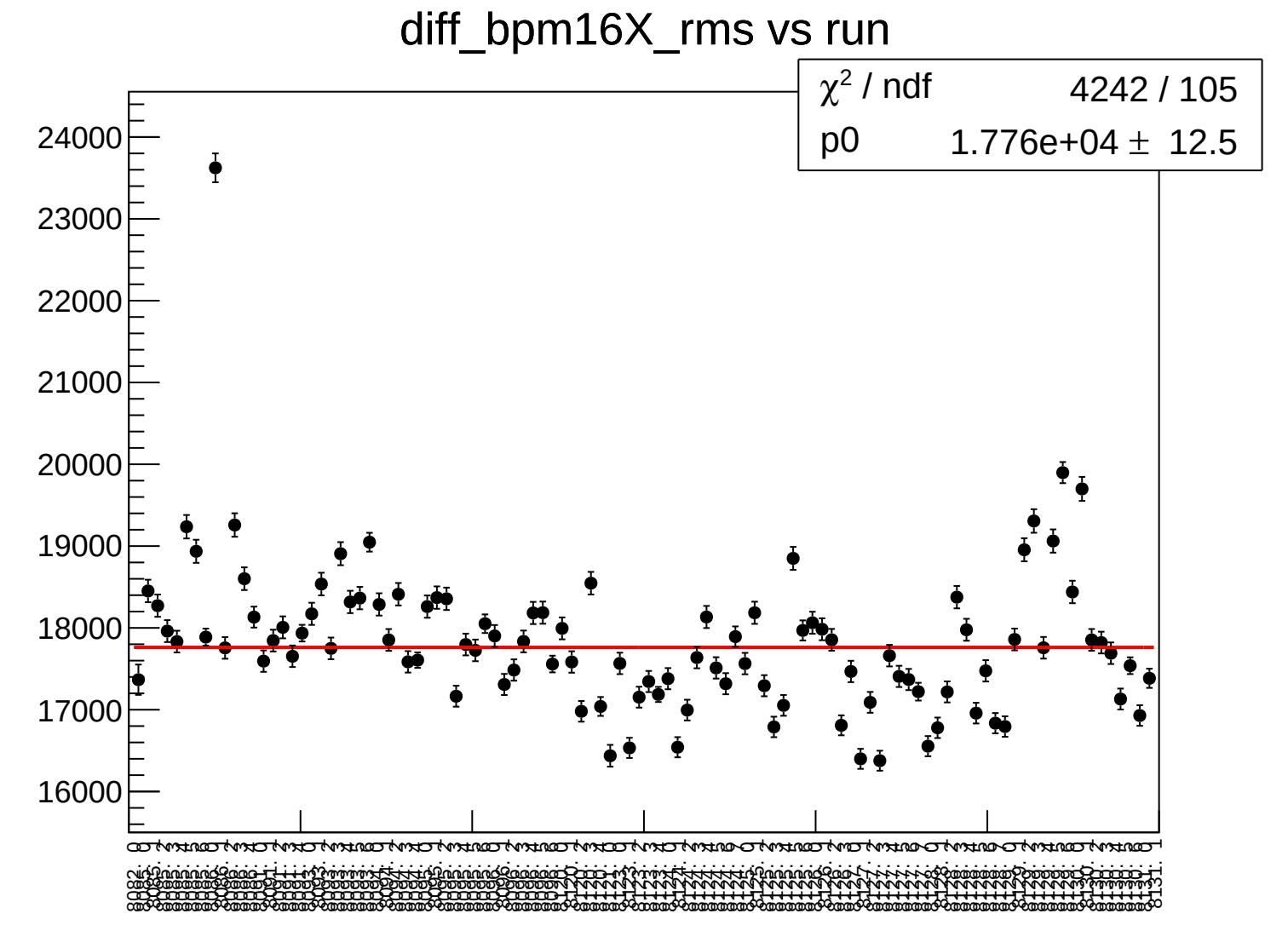

diff_bpm12Y_mean vs run
χ² / ndf 100.1 / 105
p0 −2.309 ± 1.989
pull
Entries 106
Mean 609.7
Std Dev 0

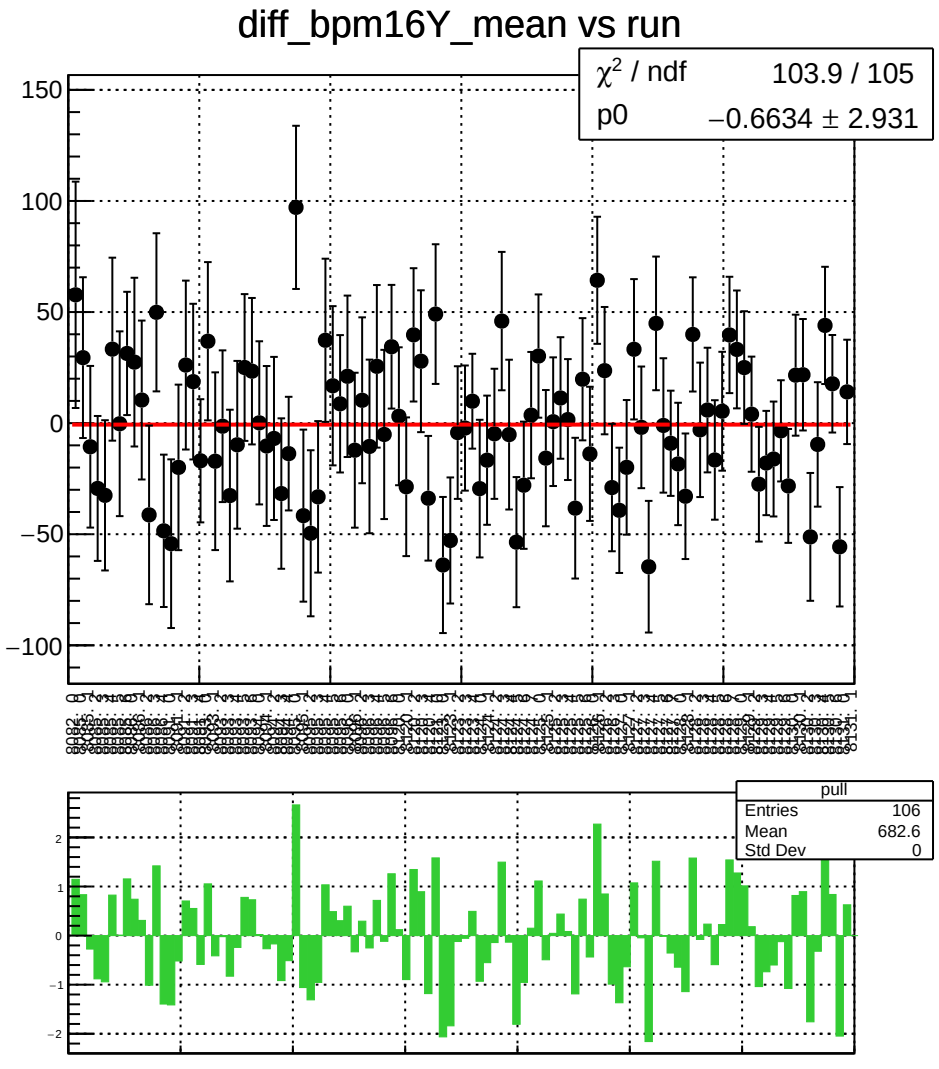

pull1D
Entries 106
Mean 0.003333
Std Dev 0.9716

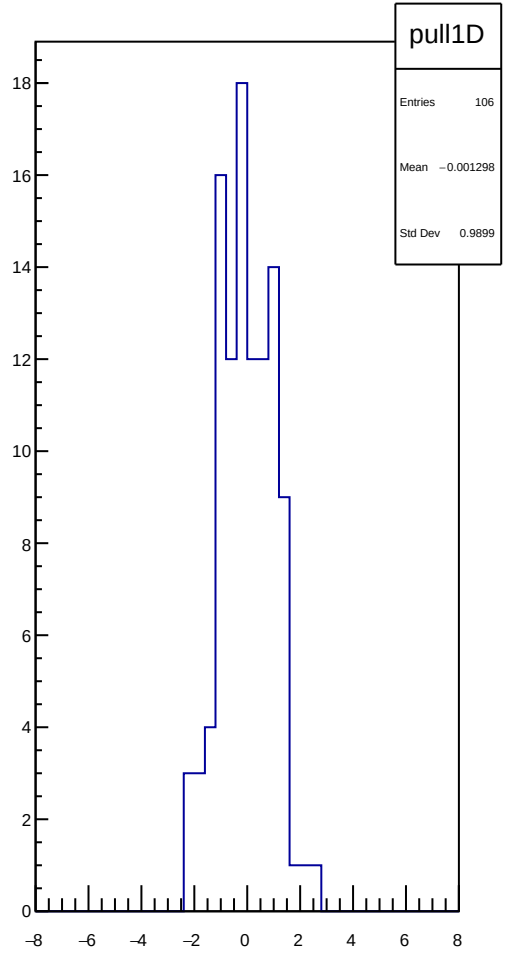

diff_bpm12Y_rms vs run
$\chi^2$ / ndf 991.8 / 105
p0 2000 ± 1.406
2150
2100
2050
2000
1950
1900

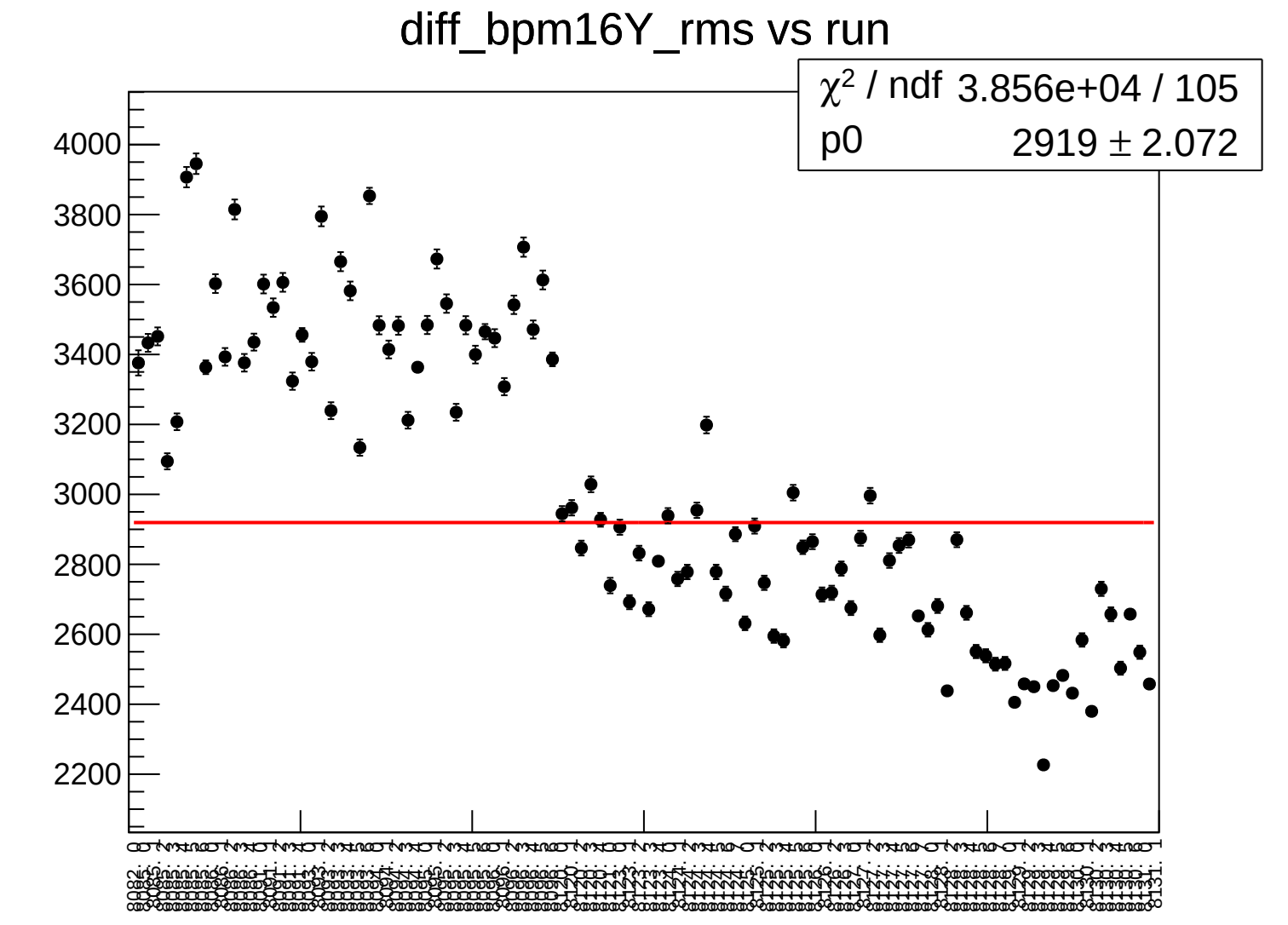

diff_bpm16X_mean vs run
$\chi^2$ / ndf 70.4 / 105
p0 25.38 ± 17.68
pull
Entries 106
Mean −10.91
Std Dev 0

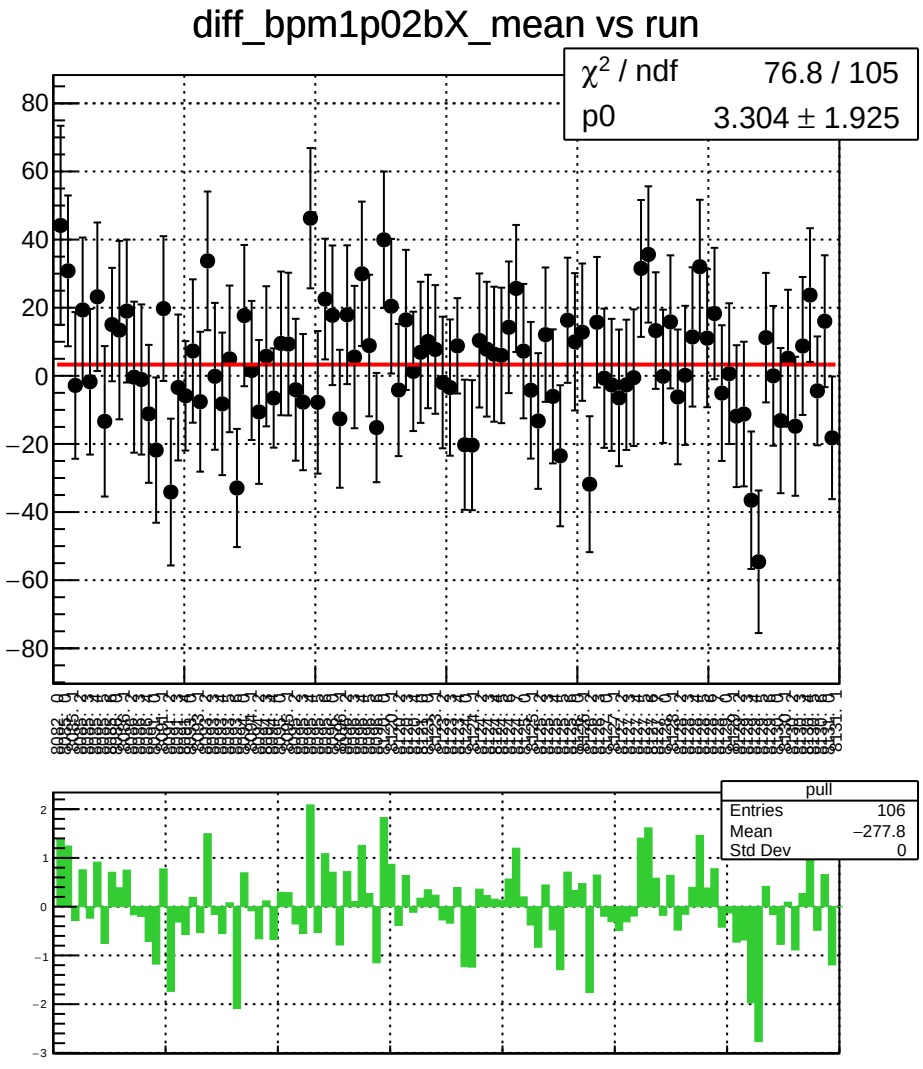

pull1D
Entries 106
Mean 0.005663
Std Dev 0.8149

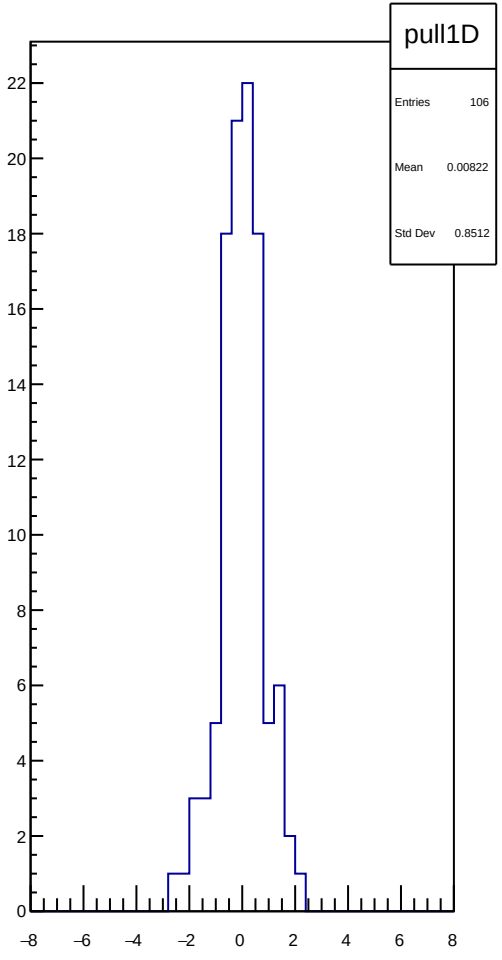

diff_bpm16X_rms vs run
χ² / ndf 4242 / 105
p0 1.776e+04 ± 12.5
24000
23000
22000
21000
20000
19000
18000
17000
16000

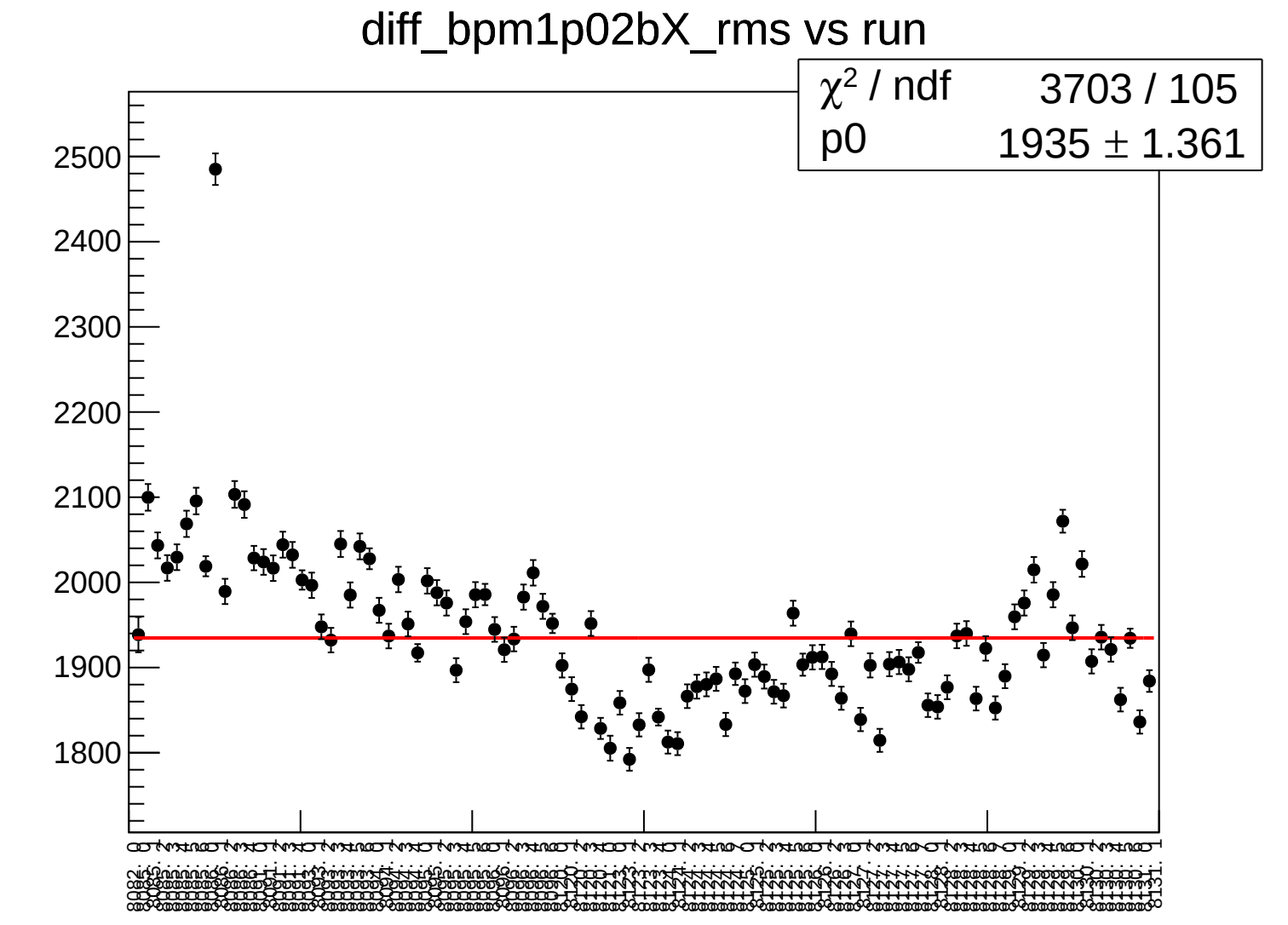

diff_bpm16Y_mean vs run
χ² / ndf 103.9 / 105
p0 −0.6634 ± 2.931
150
100
50
0
−50
−100
pull
Entries 106
Mean 682.6
Std Dev 0
2
1
0
−1
−2

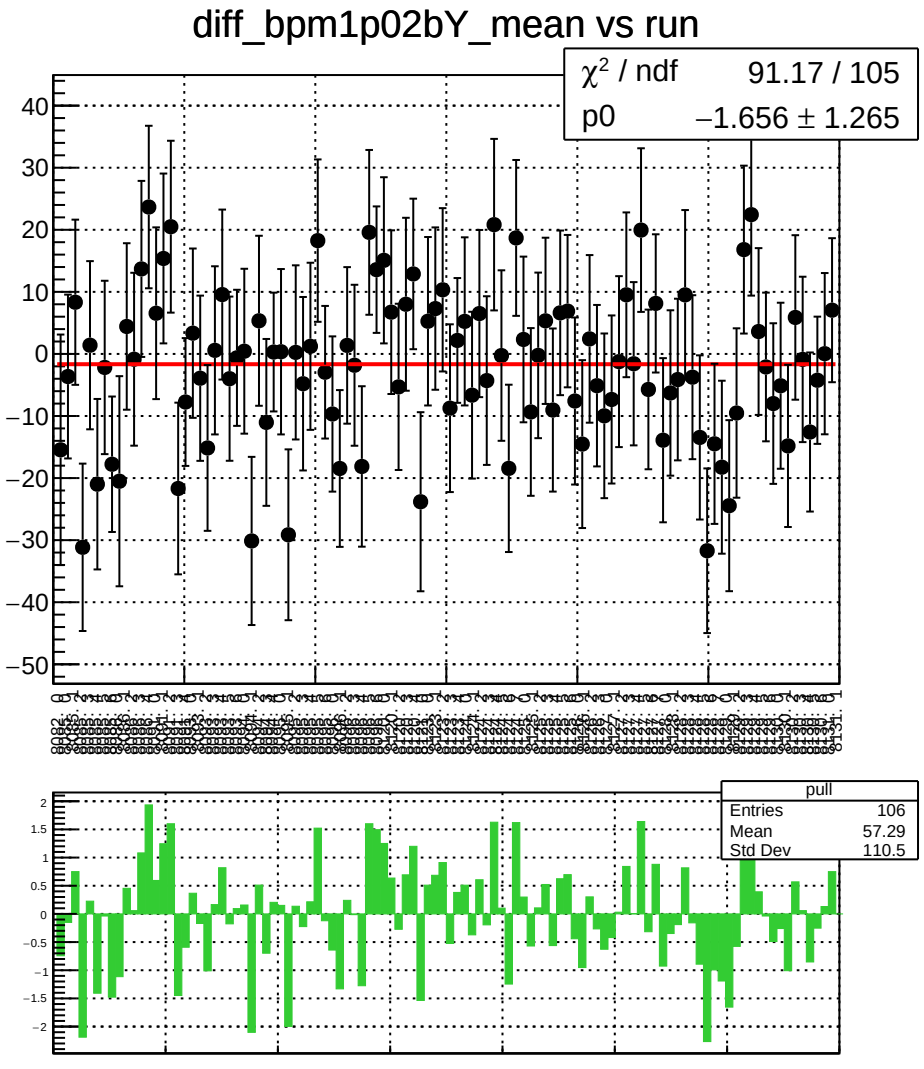

pull1D
Entries 106
Mean −0.001298
Std Dev 0.9899
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

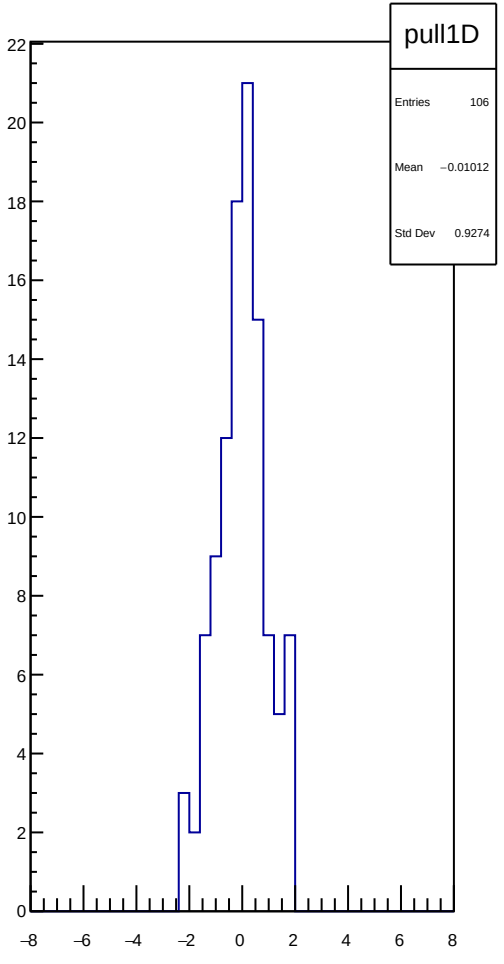

diff_bpm16Y_rms vs run
χ² / ndf 3.856e+04 / 105
p0 2919 ± 2.072
4000
3800
3600
3400
3200
3000
2800
2600
2400
2200

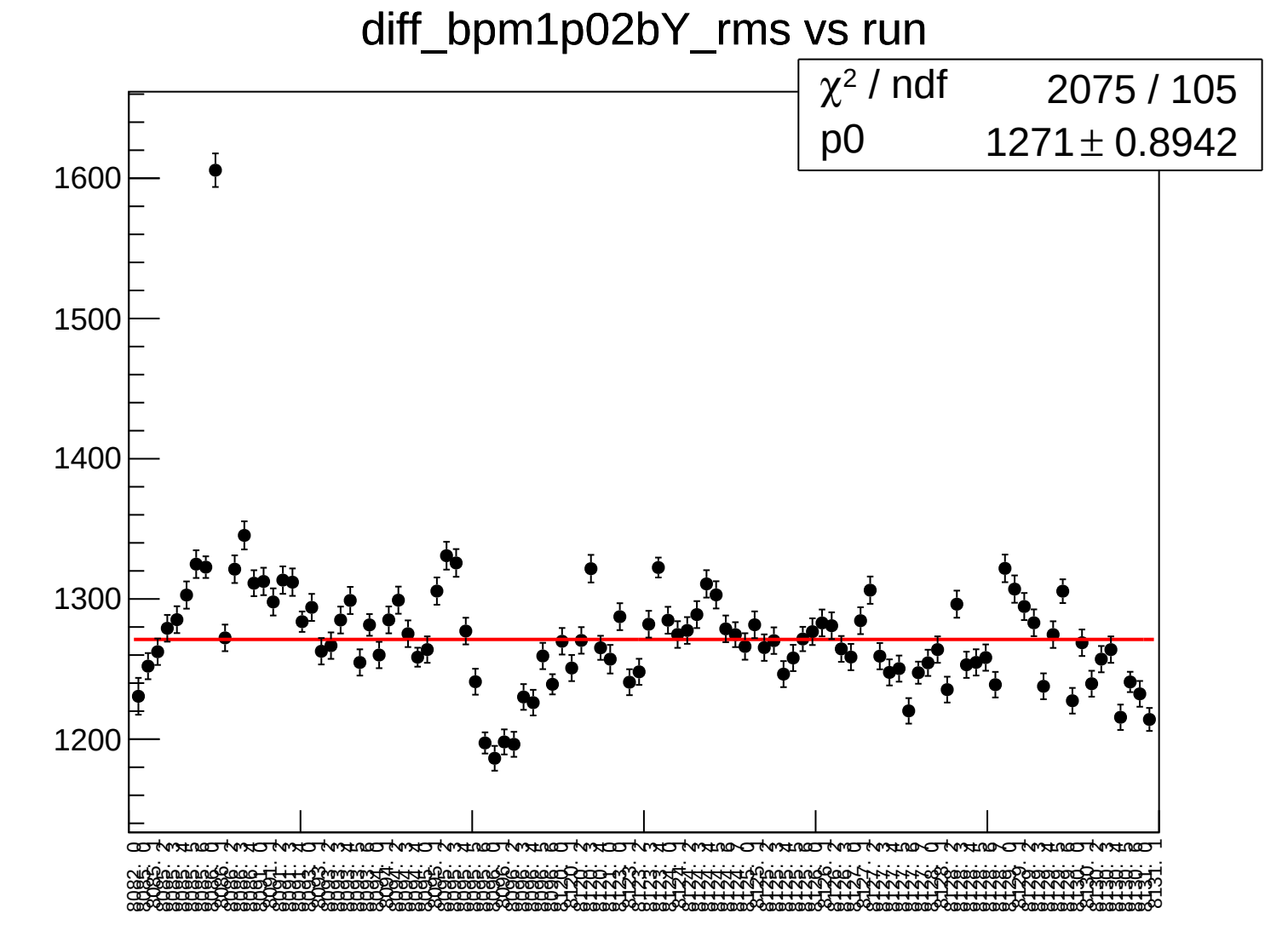

diff_bpm1p02bX_mean vs run
χ² / ndf 76.8 / 105
p0 3.304 ± 1.925
pull
Entries 106
Mean −277.8
Std Dev 0

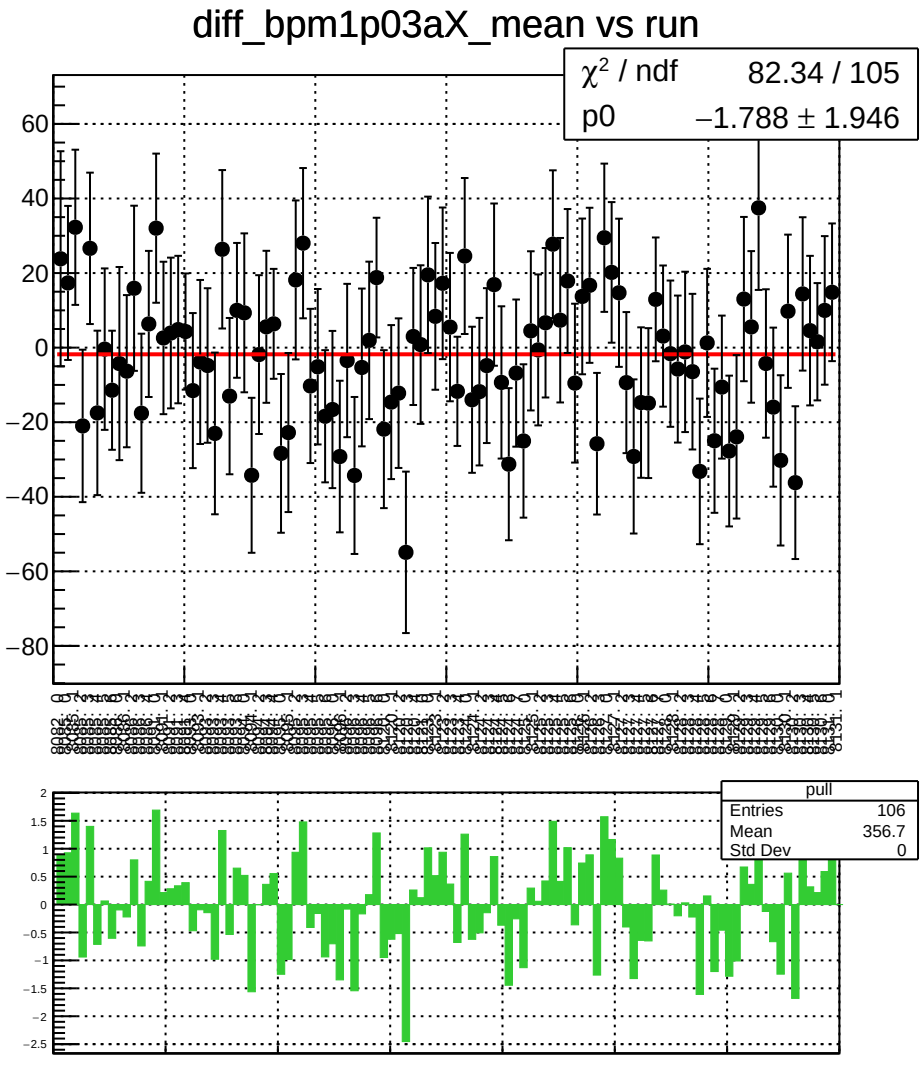

pull1D
Entries 106
Mean 0.00822
Std Dev 0.8512

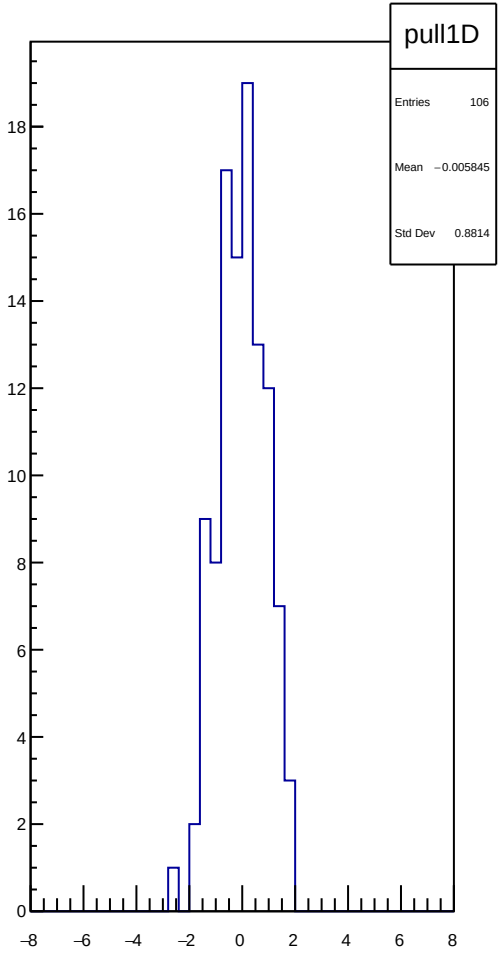

diff_bpm1p02bX_rms vs run
χ² / ndf 3703 / 105
p0 1935 ± 1.361
2500
2400
2300
2200
2100
2000
1900
1800

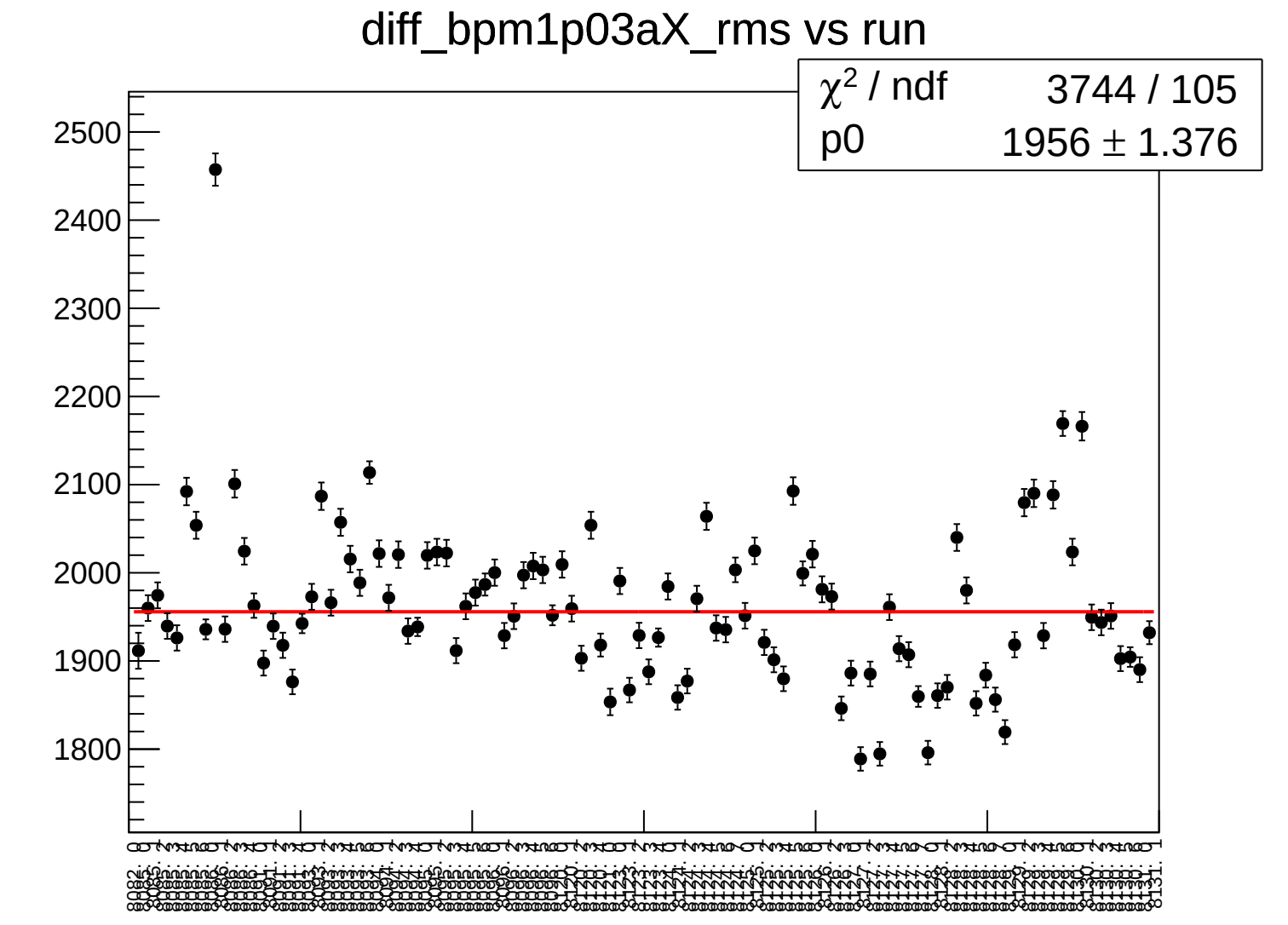

diff_bpm1p02bY_mean vs run
χ² / ndf 91.17 / 105
p0 −1.656 ± 1.265
pull
Entries 106
Mean 57.29
Std Dev 110.5

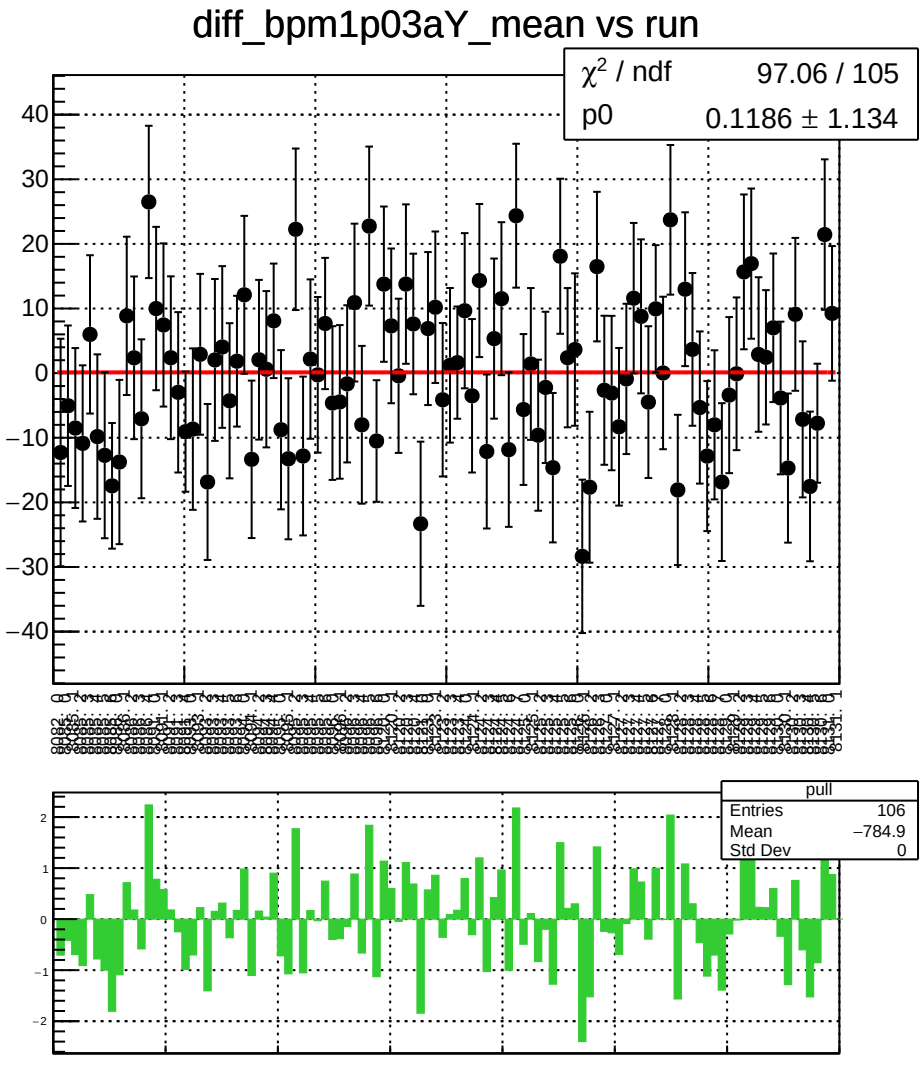

pull1D
Entries 106
Mean −0.01012
Std Dev 0.9274

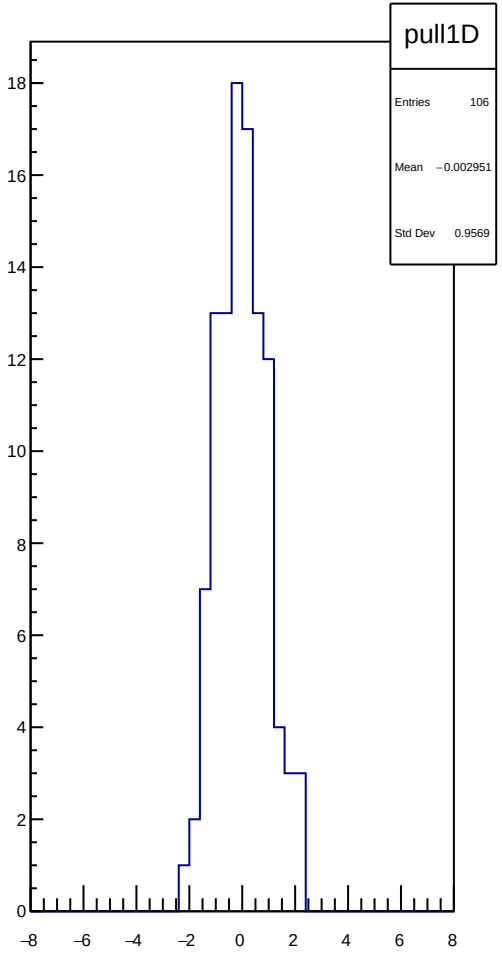

diff_bpm1p02bY_rms vs run
χ² / ndf 2075 / 105
p0 1271 ± 0.8942
1600
1500
1400
1300
1200

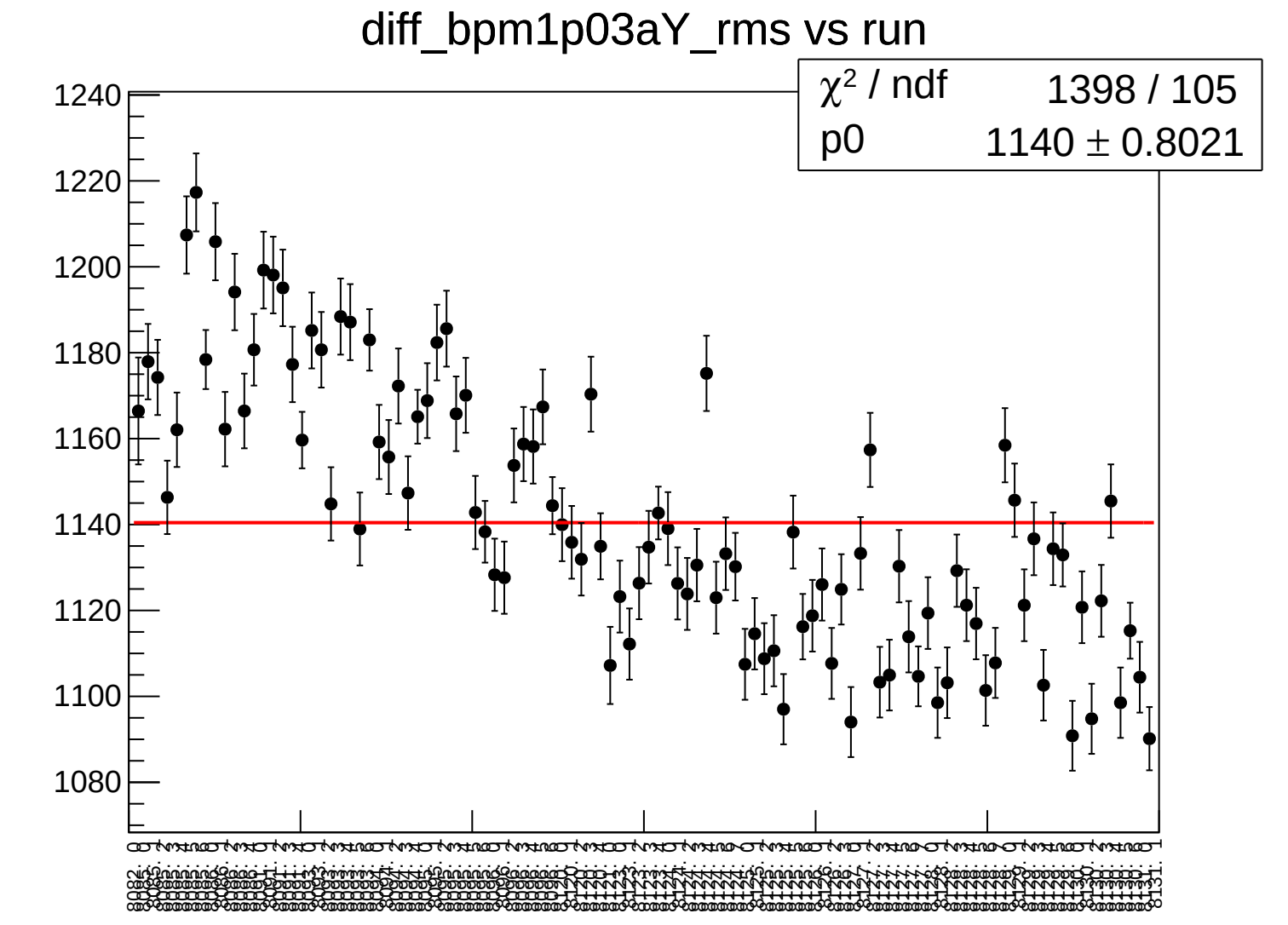

diff_bpm1p03aX_mean vs run
χ² / ndf 82.34 / 105
p0 −1.788 ± 1.946
pull
Entries 106
Mean 356.7
Std Dev 0

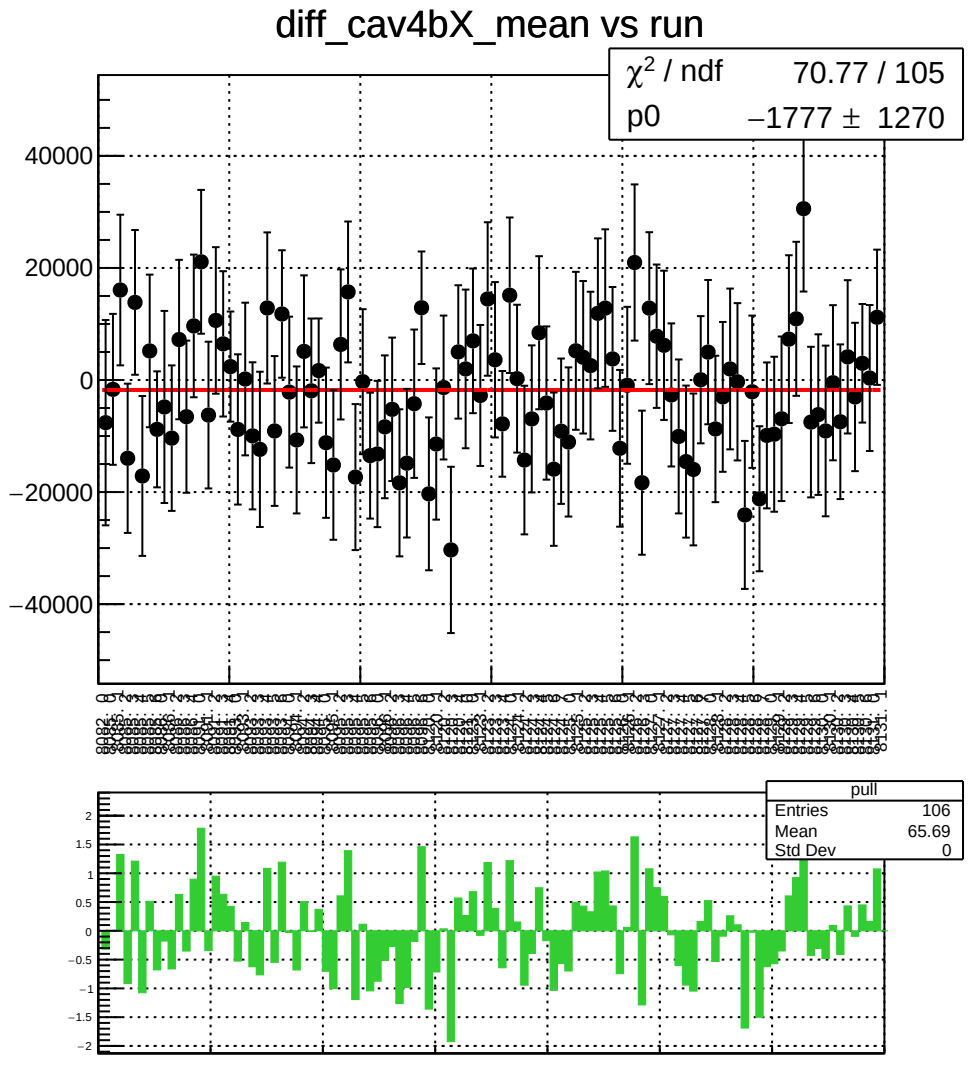

pull1D
Entries 106
Mean −0.005845
Std Dev 0.8814

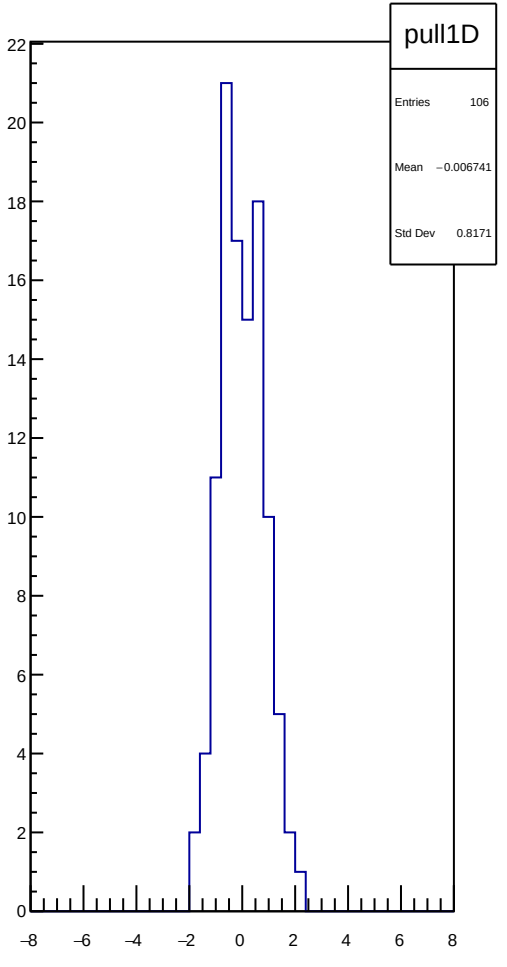

diff_bpm1p03aX_rms vs run
χ² / ndf 3744 / 105
p0 1956 ± 1.376
2500
2400
2300
2200
2100
2000
1900
1800

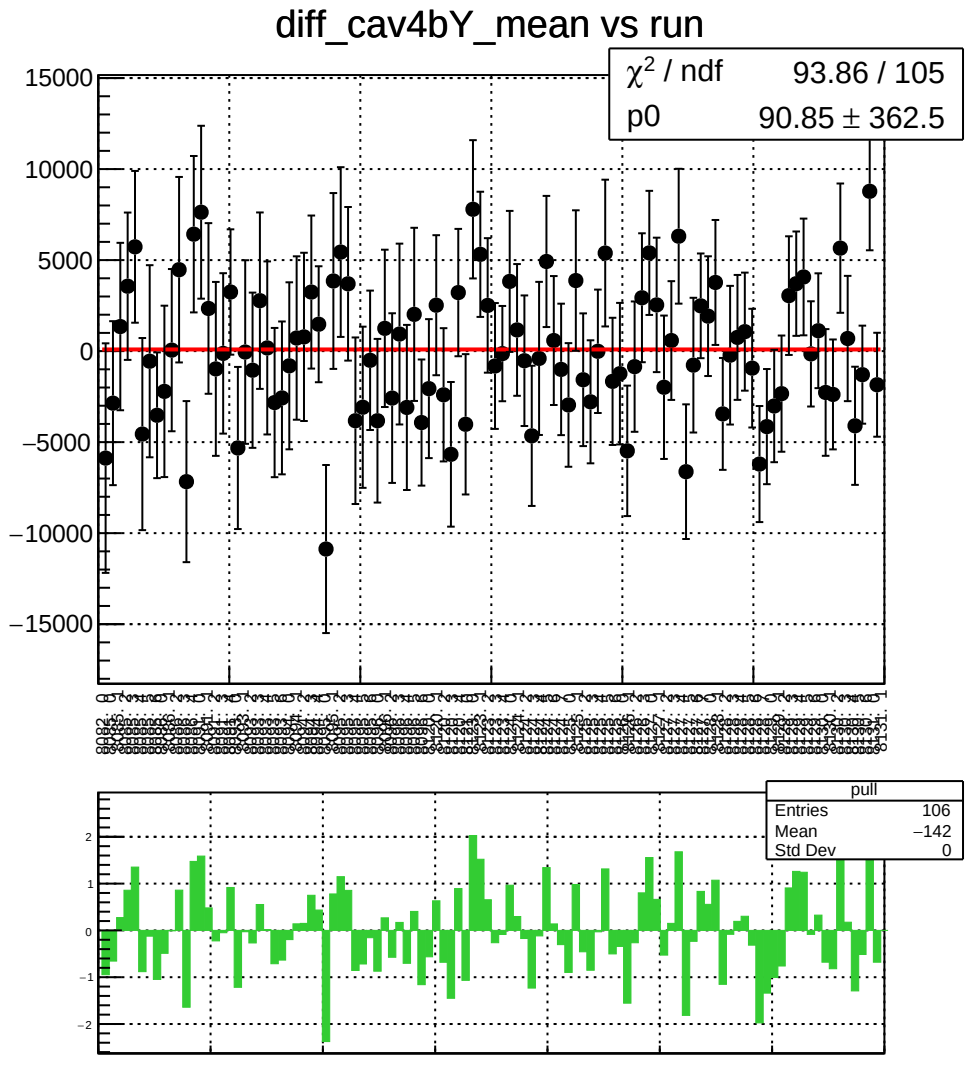

diff_bpm1p03aY_mean vs run
χ² / ndf 97.06 / 105
p0 0.1186 ± 1.134
pull
Entries 106
Mean −784.9
Std Dev 0

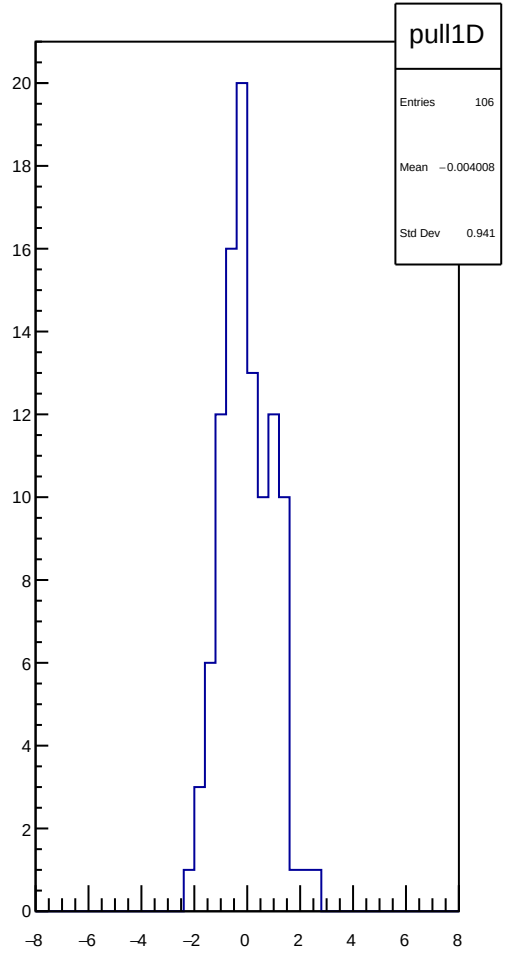

pull1D
Entries 106
Mean −0.002951
Std Dev 0.9569

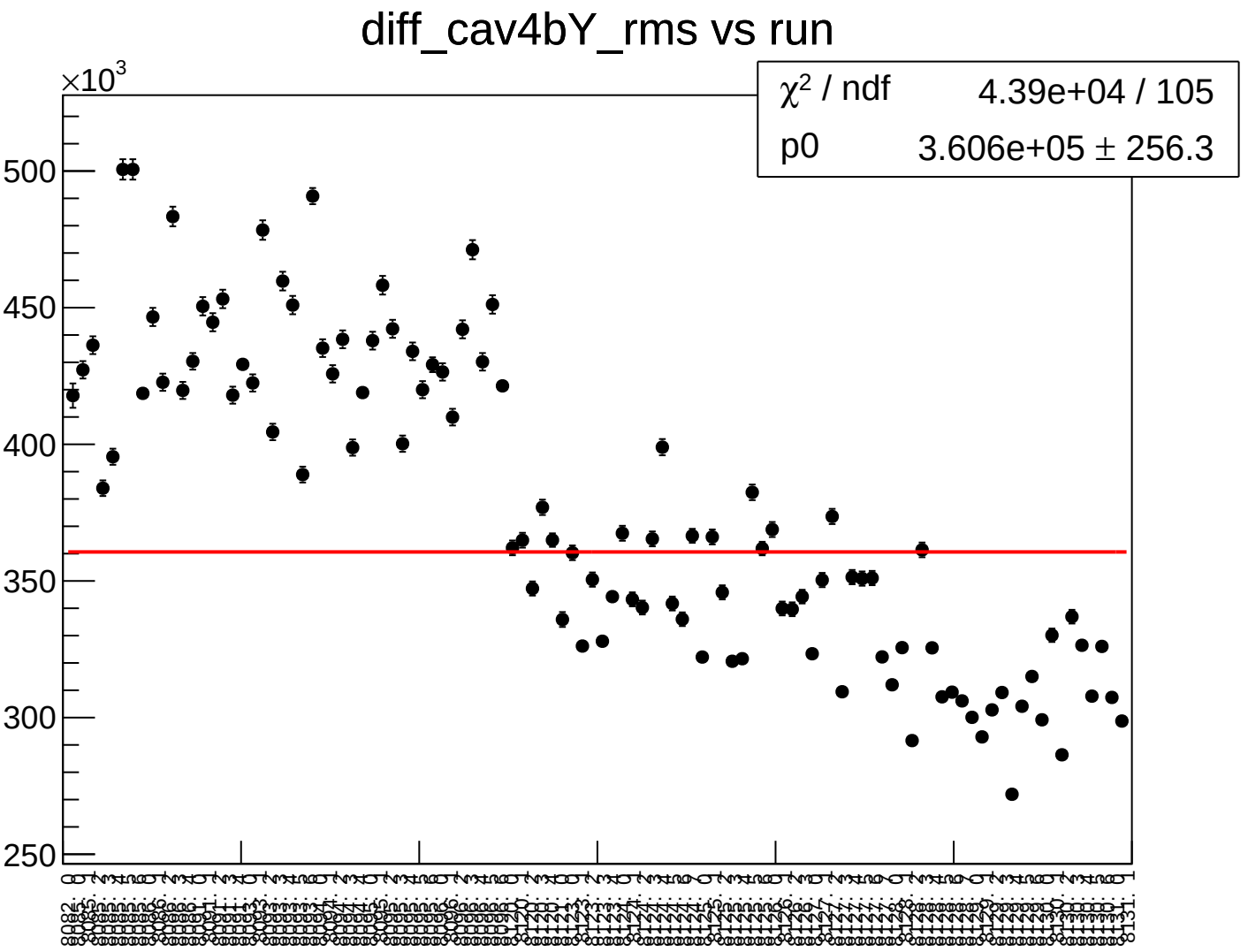

diff_bpm1p03aY_rms vs run
χ² / ndf 1398 / 105
p0 1140 ± 0.8021
1240
1220
1200
1180
1160
1140
1120
1100
1080

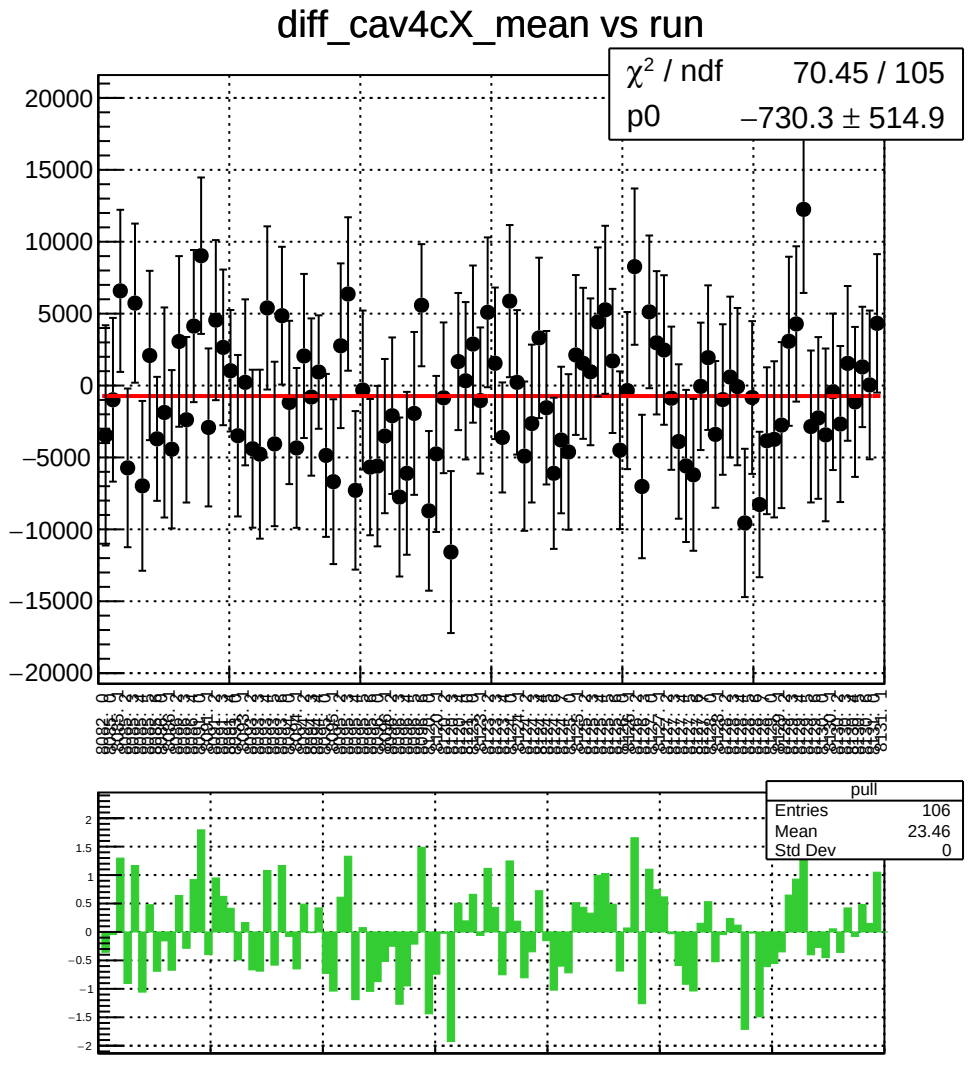

diff_cav4bX_mean vs run
χ² / ndf 70.77 / 105
p0 −1777 ± 1270
40000
20000
0
−20000
−40000
pull
Entries 106
Mean 65.69
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

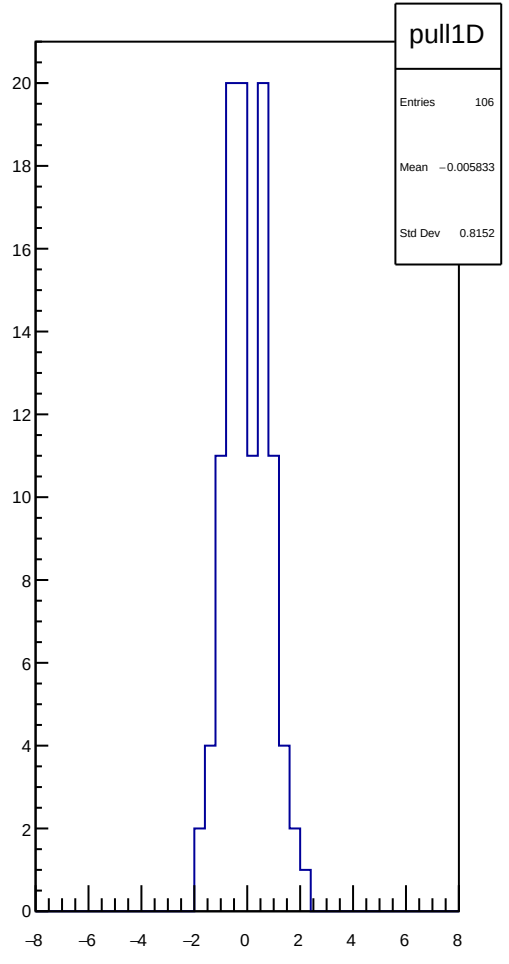

pull1D
Entries 106
Mean −0.006741
Std Dev 0.8171
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

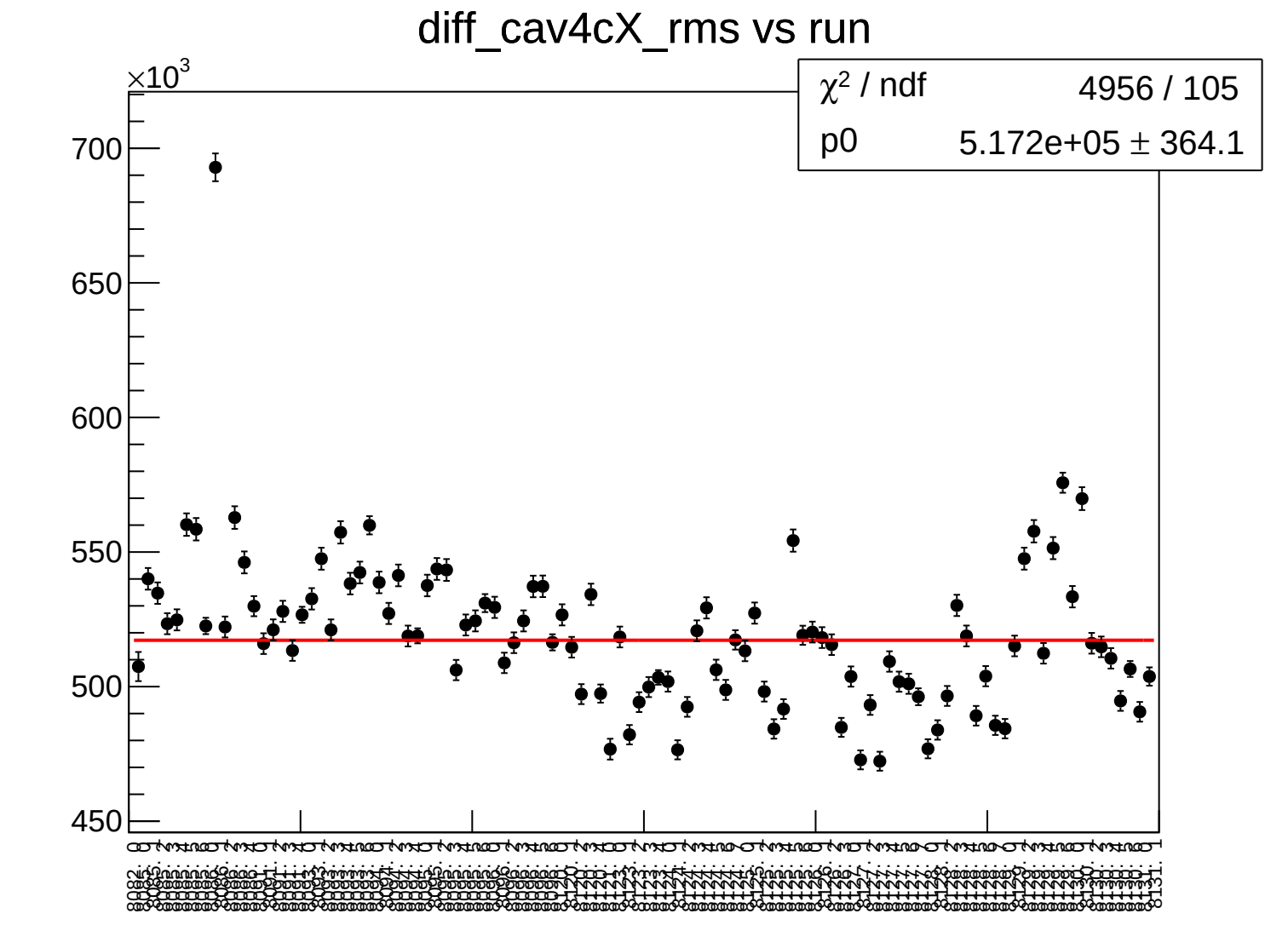

diff_cav4bY_mean vs run
$\chi^2$ / ndf 93.86 / 105
p0 90.85 ± 362.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 106
Mean −142
Std Dev 0
2
1
0
−1
−2

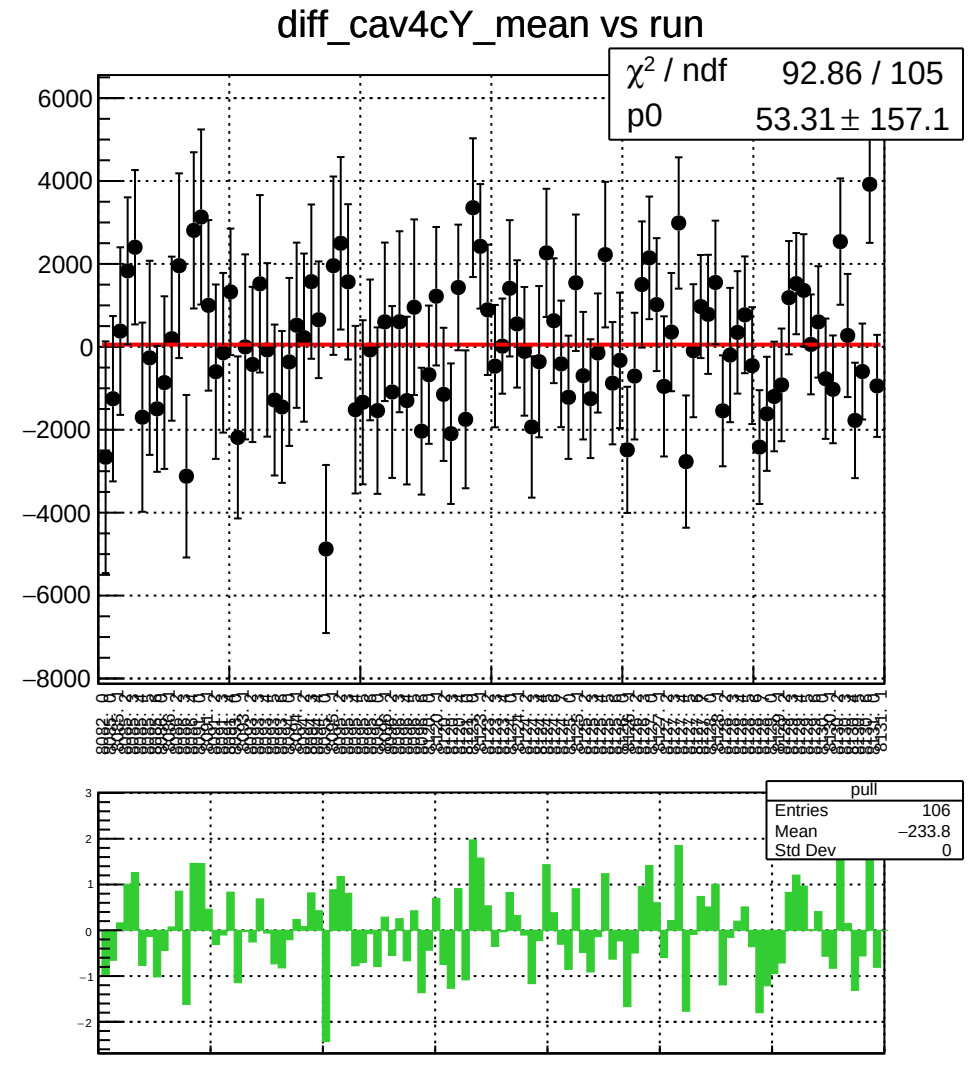

pull1D
Entries 106
Mean −0.004008
Std Dev 0.941
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

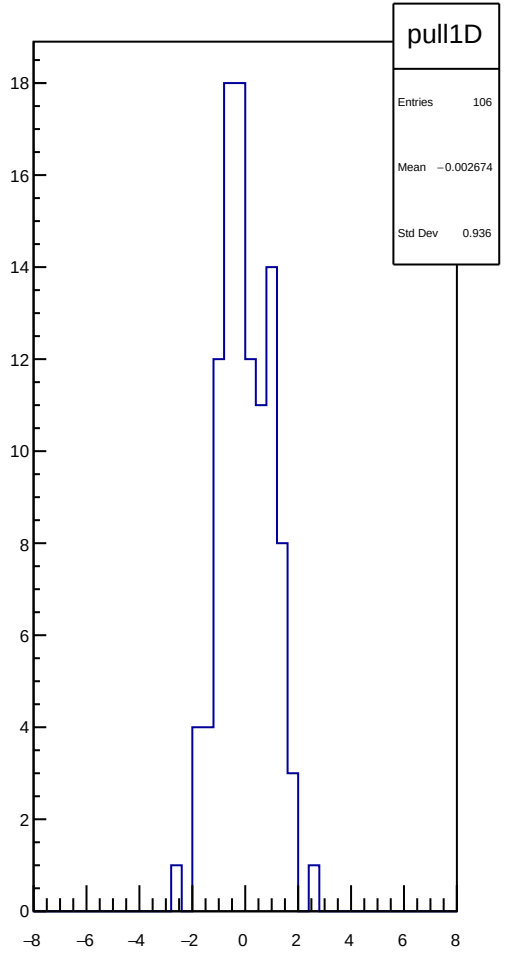

diff_cav4bY_rms vs run
×10^3
χ^2 / ndf 4.39e+04 / 105
p0 3.606e+05 ± 256.3
500
450
400
350
300
250

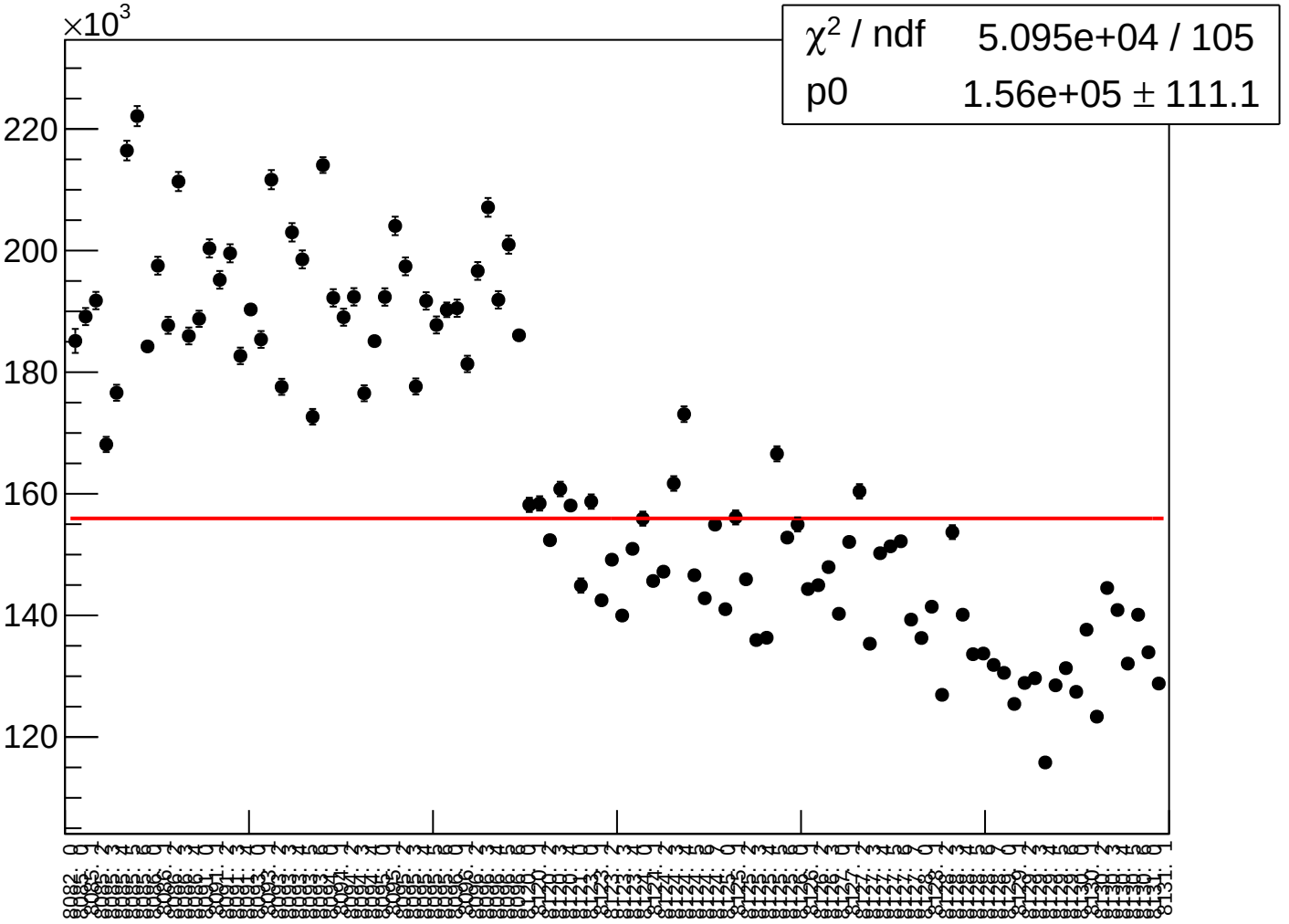

diff_cav4cX_mean vs run
χ² / ndf 70.45 / 105
p0 −730.3 ± 514.9
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 106
Mean 23.46
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

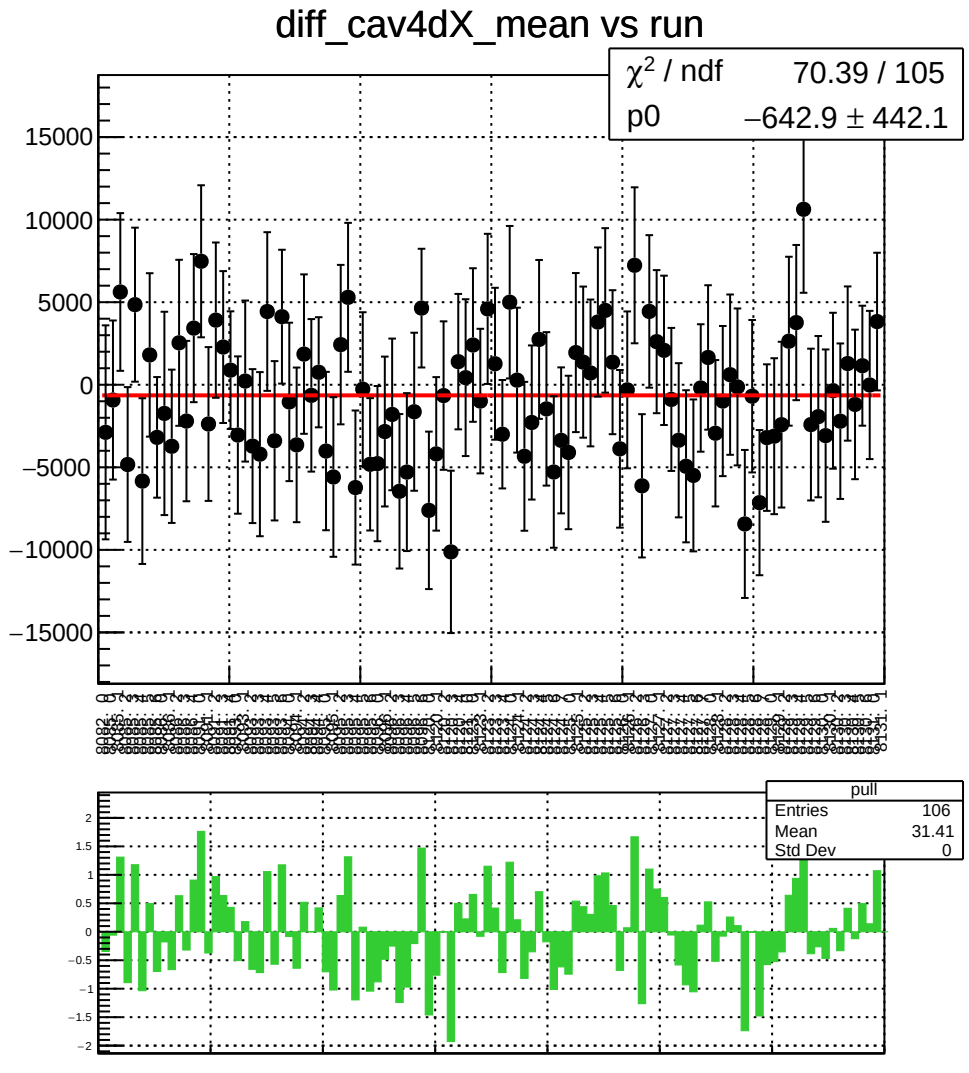

pull1D
Entries 106
Mean −0.005833
Std Dev 0.8152
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

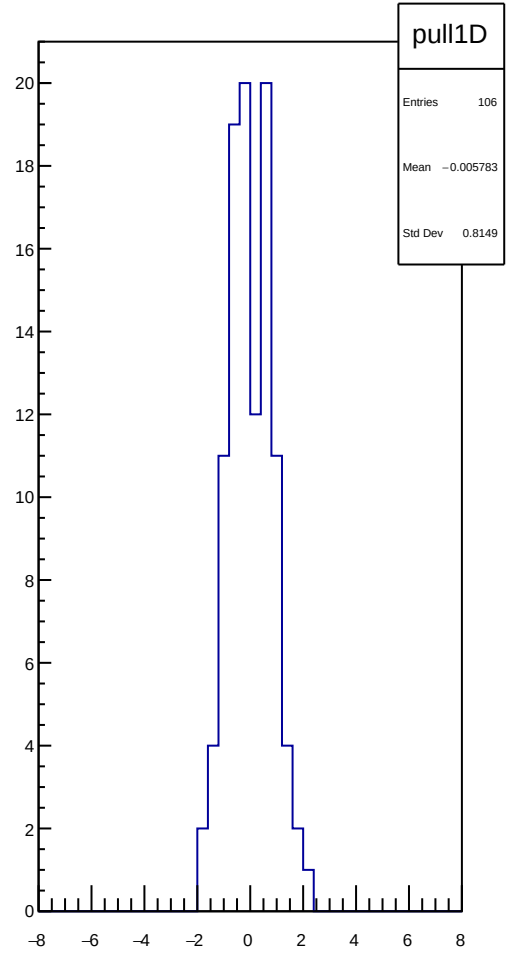

diff_cav4cX_rms vs run
×10^3
χ² / ndf 4956 / 105
p0 5.172e+05 ± 364.1
700
650
600
550
500
450

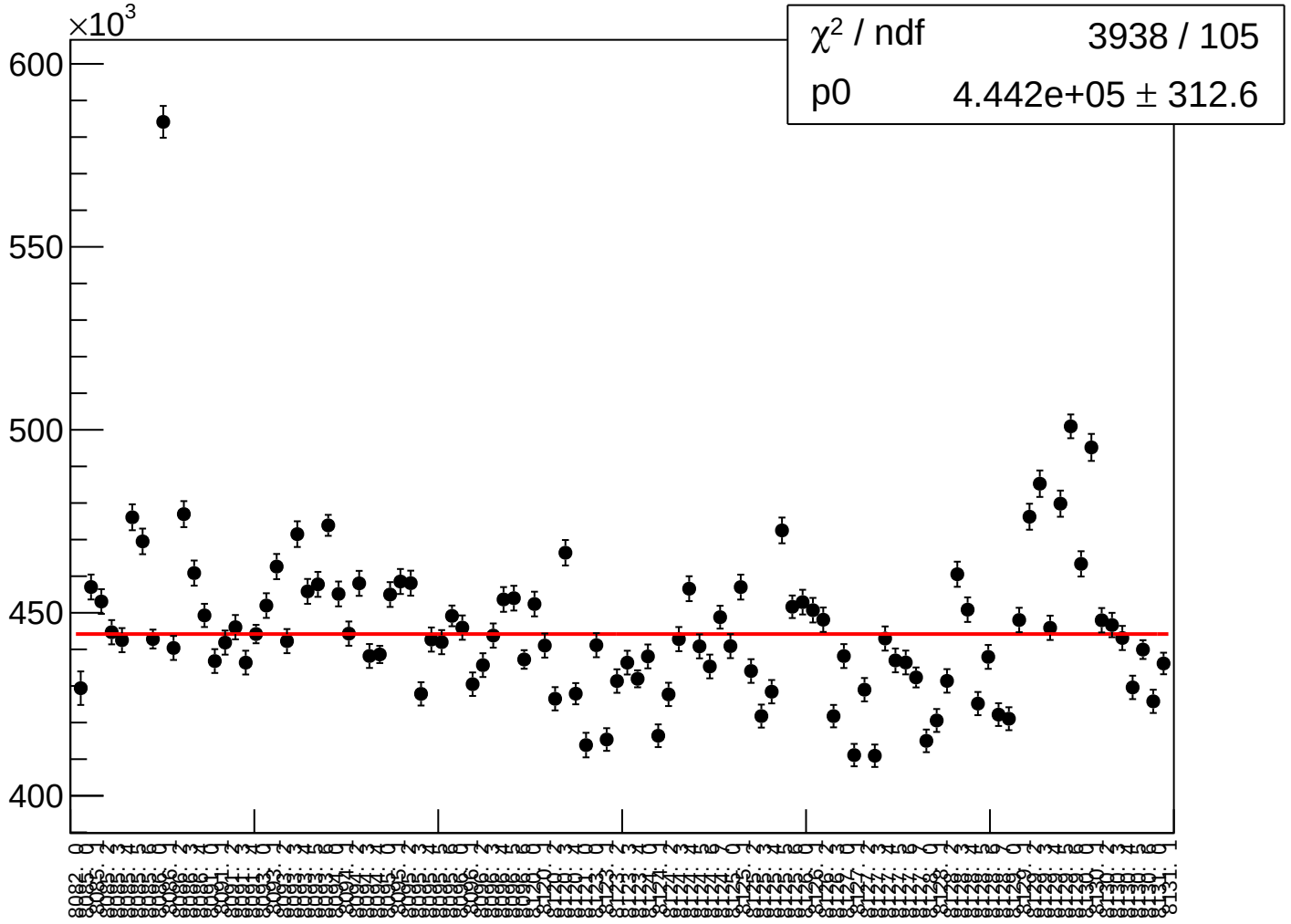

diff_cav4cY_mean vs run
$\chi^2$ / ndf 92.86 / 105
p0 53.31 ± 157.1
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 106
Mean −233.8
Std Dev 0
3
2
1
0
−1
−2

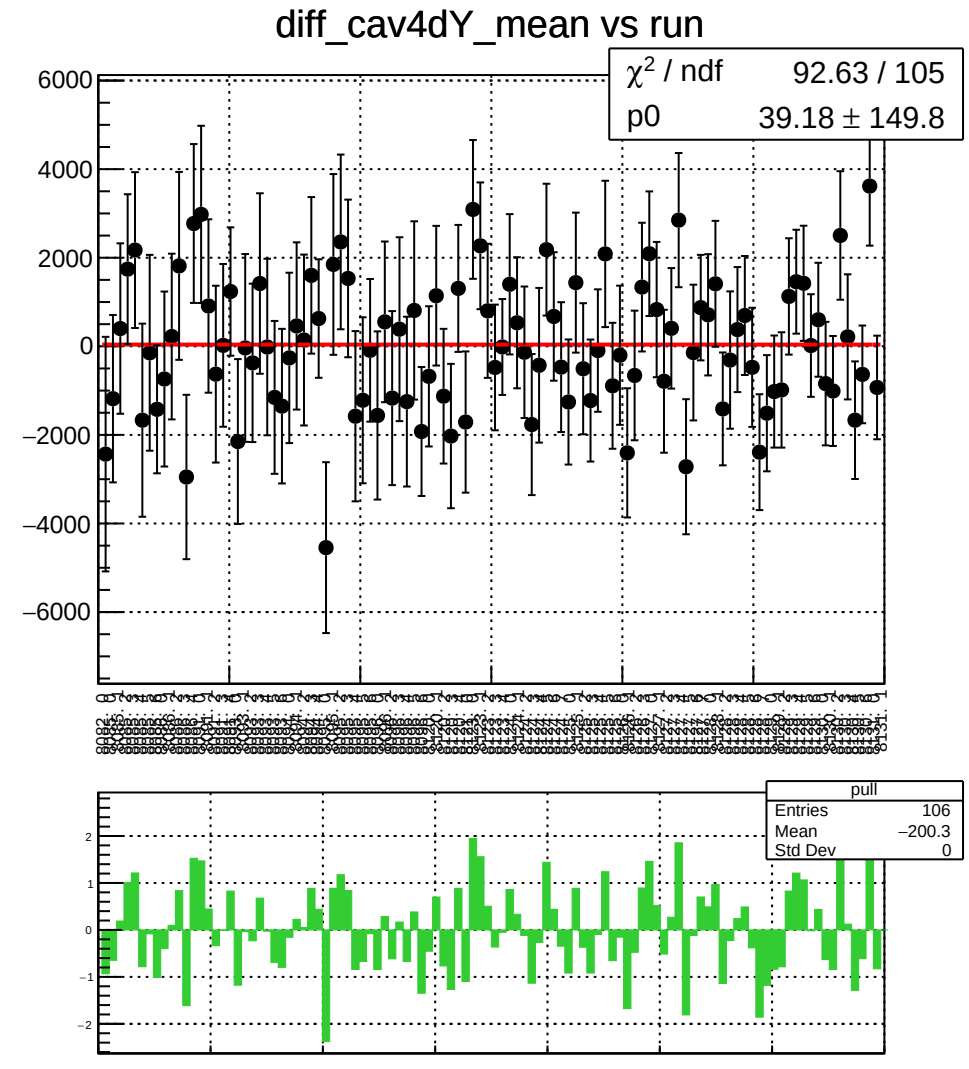

pull1D
Entries 106
Mean −0.002674
Std Dev 0.936
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

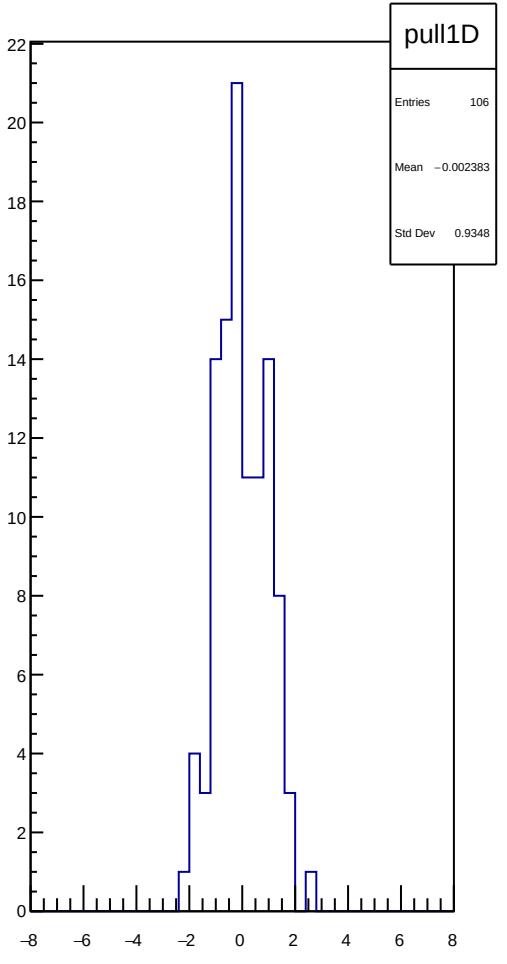

diff_cav4cY_rms vs run
×10^3
220
200
180
160
140
120
χ² / ndf 5.095e+04 / 105
p0 1.56e+05 ± 111.1

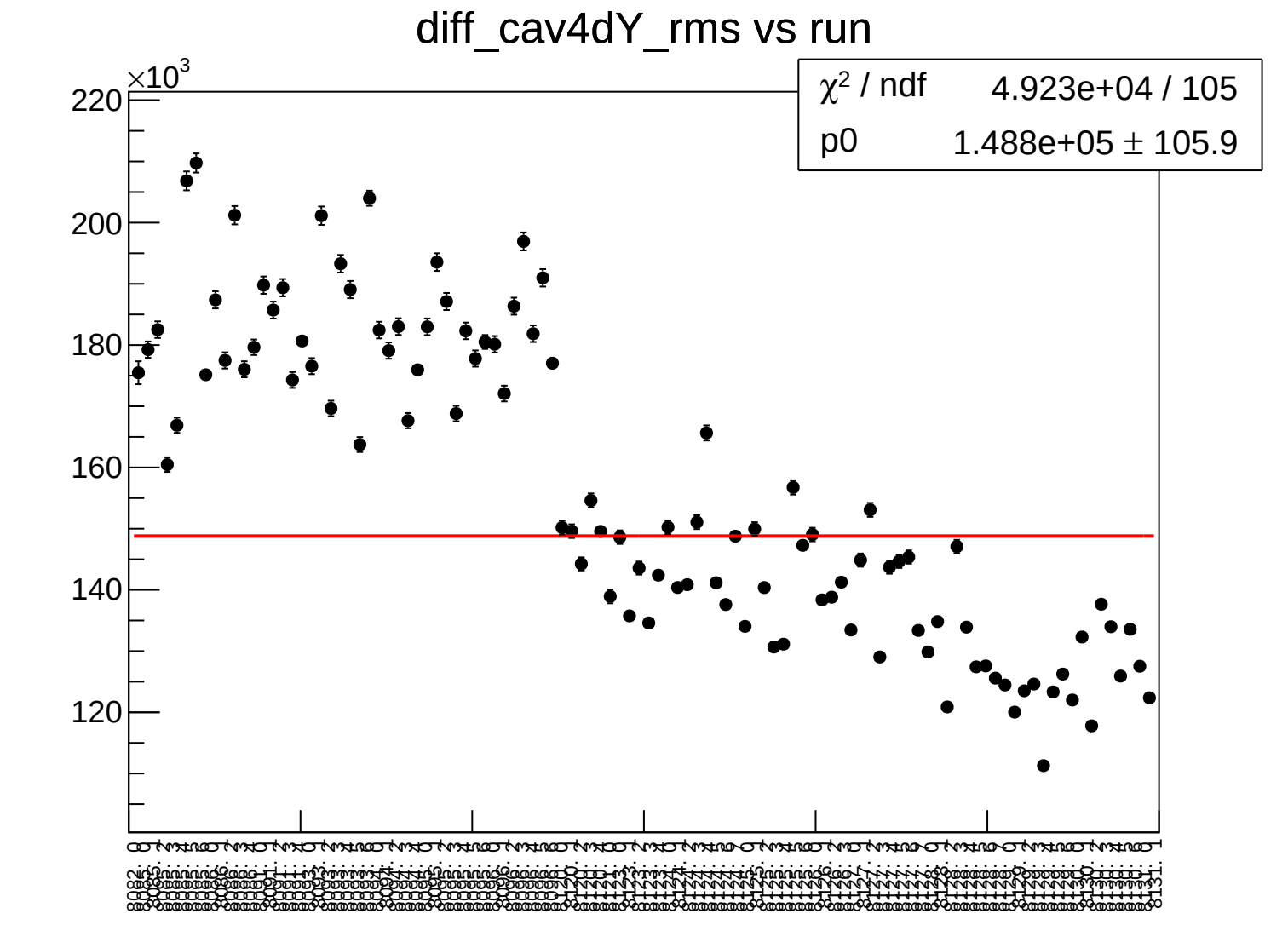

diff_cav4dX_mean vs run
χ² / ndf 70.39 / 105
p0 −642.9 ± 442.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 106
Mean 31.41
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

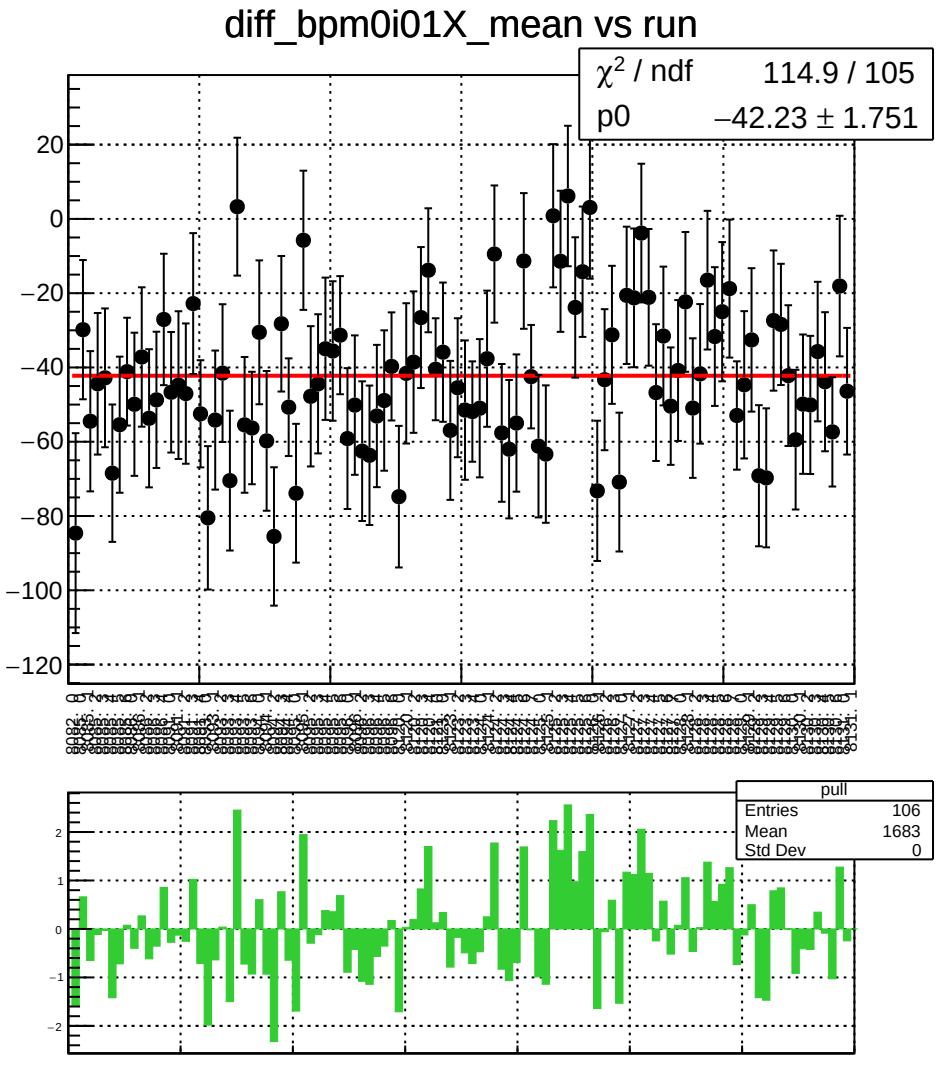

pull1D
Entries 106
Mean −0.005783
Std Dev 0.8149
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

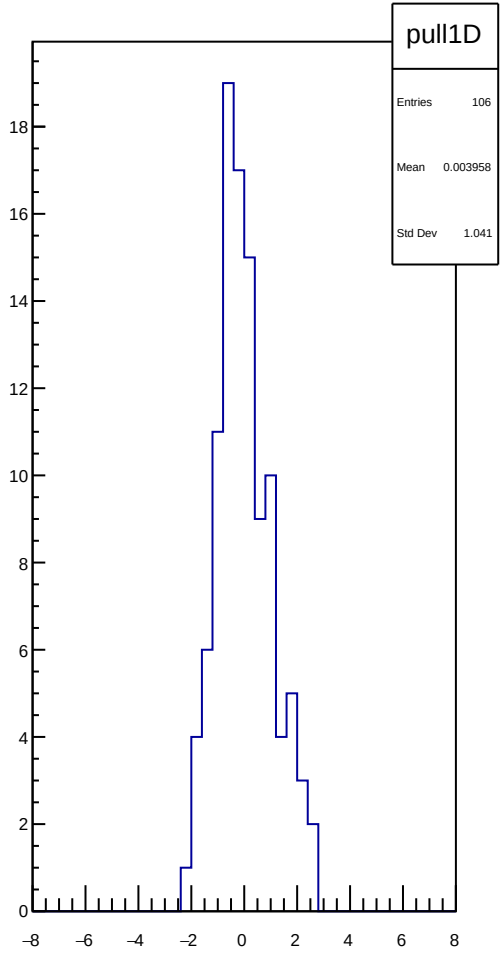

diff_cav4dX_rms vs run
×10^3
600
550
500
450
400
χ² / ndf 3938 / 105
p0 4.442e+05 ± 312.6

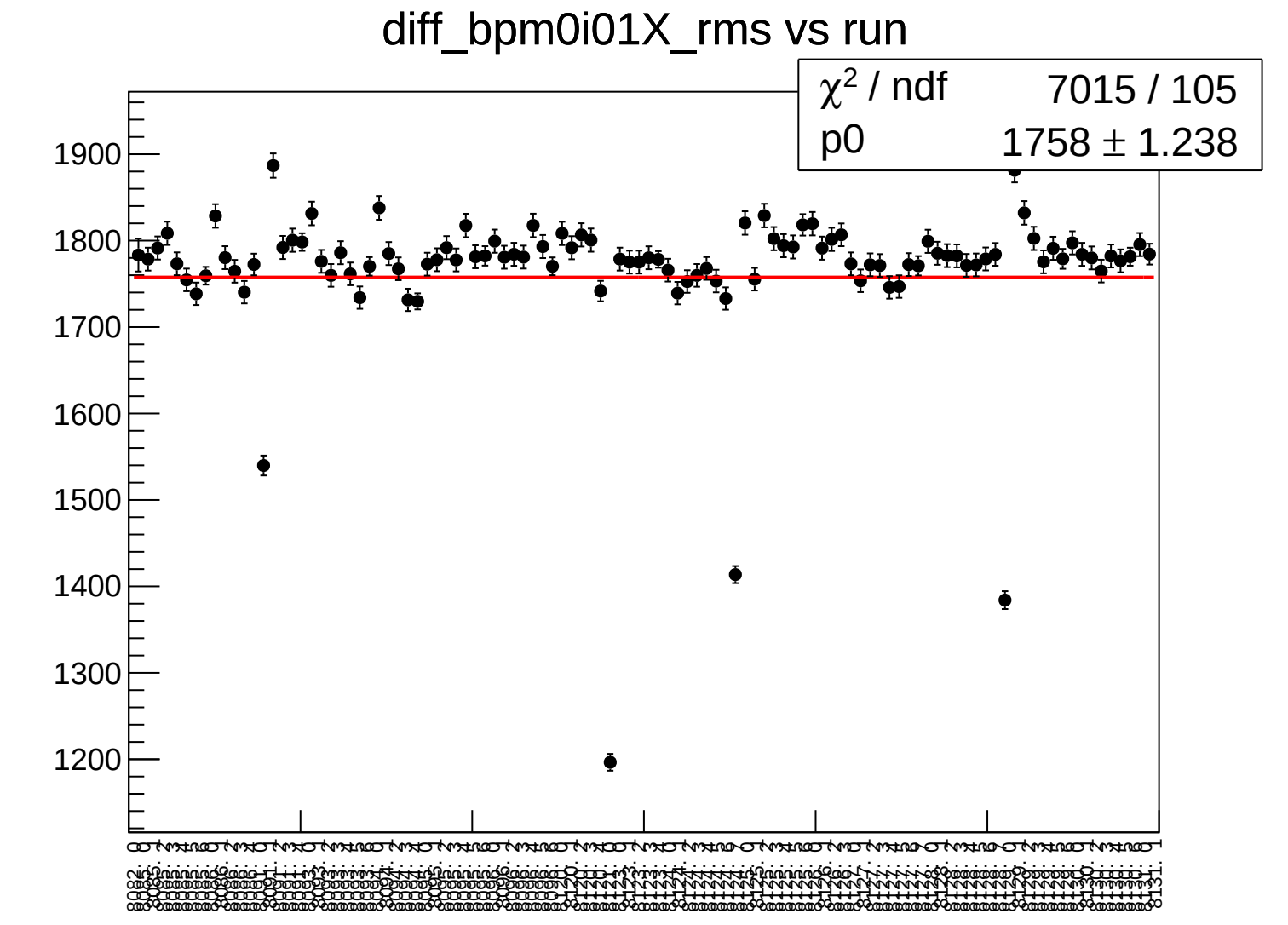

diff_cav4dY_mean vs run
χ² / ndf 92.63 / 105
p0 39.18 ± 149.8
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 106
Mean −200.3
Std Dev 0
2
1
0
−1
−2

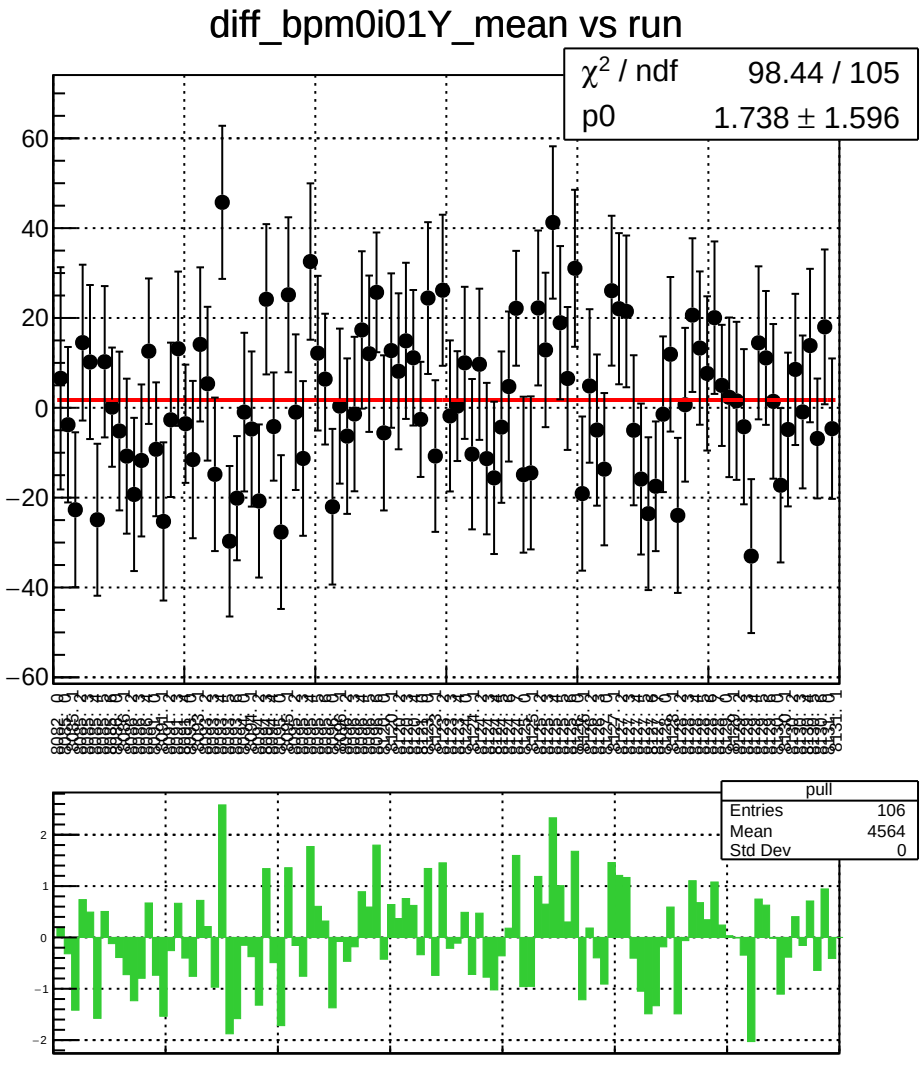

pull1D
Entries 106
Mean −0.002383
Std Dev 0.9348
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

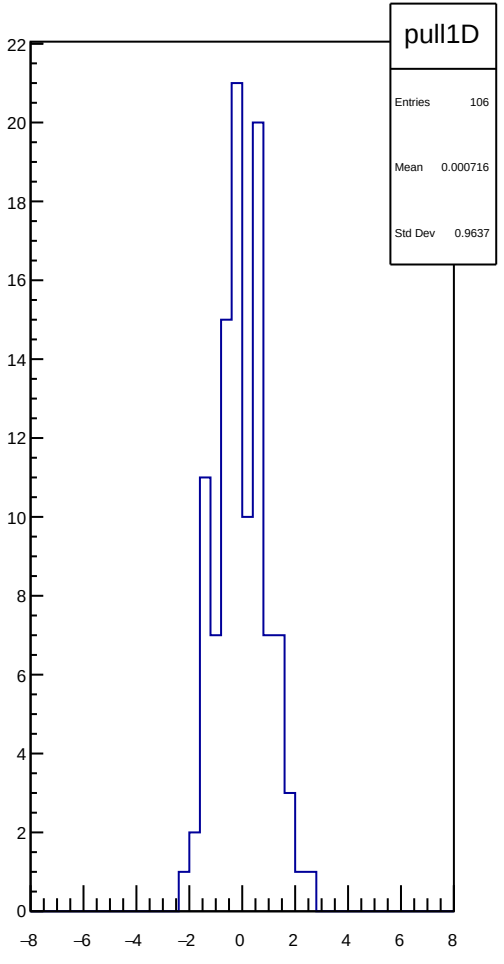

diff_cav4dY_rms vs run
×10^3
220
200
180
160
140
120
χ² / ndf 4.923e+04 / 105
p0 1.488e+05 ± 105.9

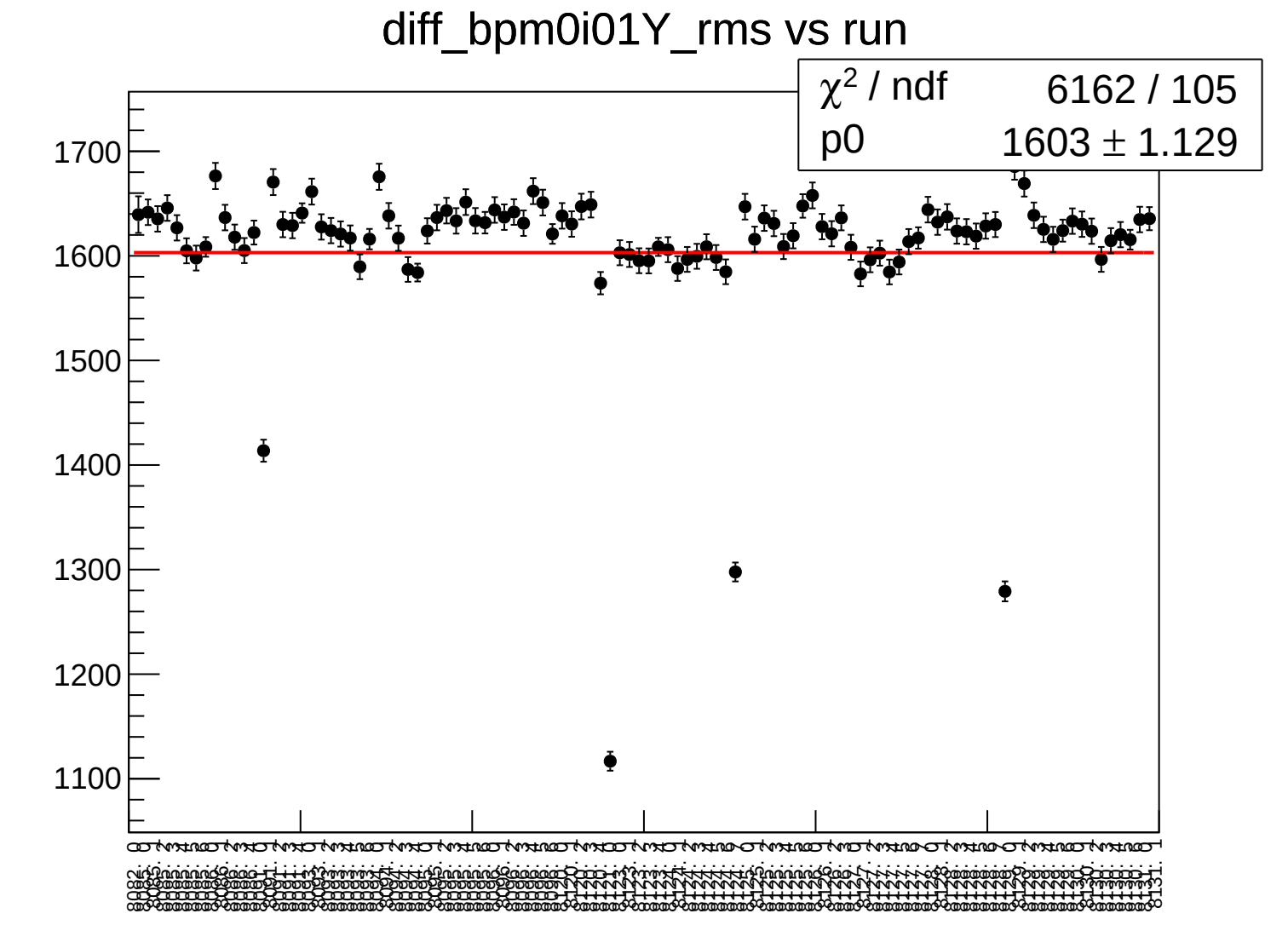

diff_bpm0i01X_mean vs run
χ² / ndf 114.9 / 105
p0 −42.23 ± 1.751
20
0
−20
−40
−60
−80
−100
−120
pull
Entries 106
Mean 1683
Std Dev 0
2
1
0
−1
−2

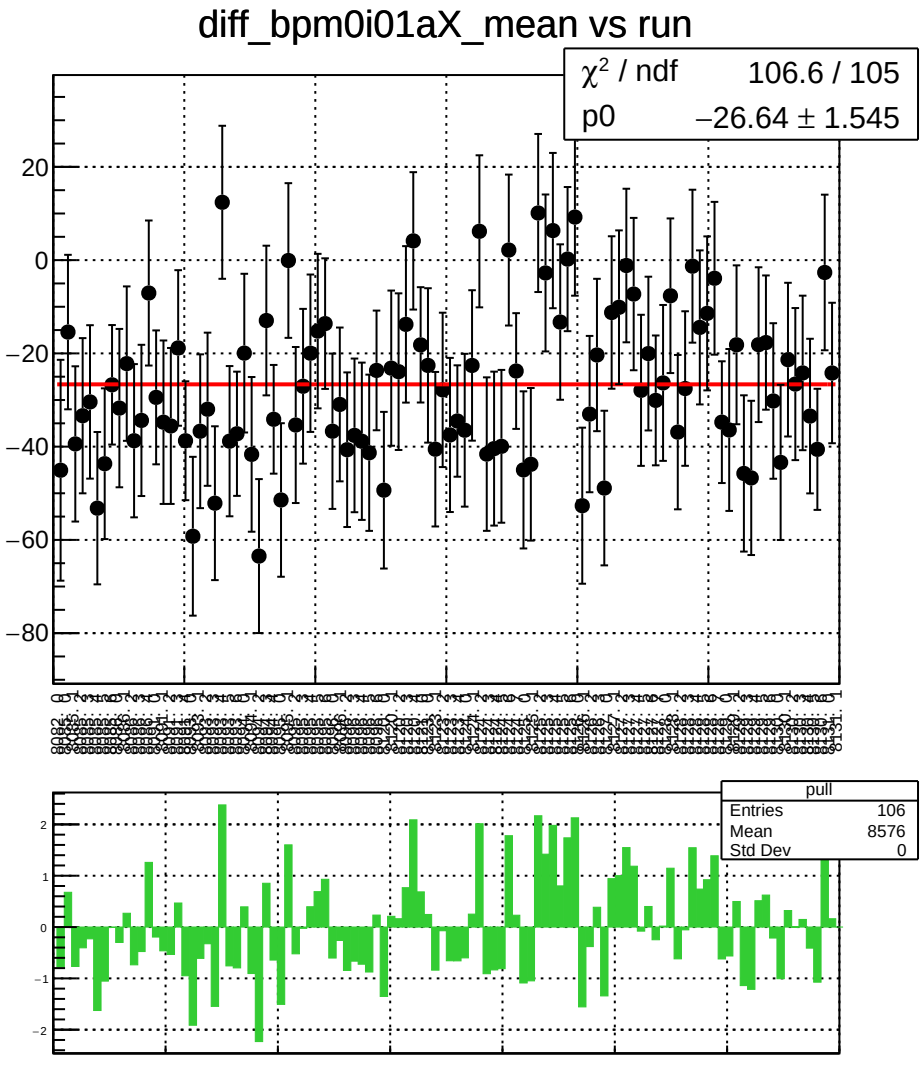

pull1D
Entries 106
Mean 0.003958
Std Dev 1.041
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

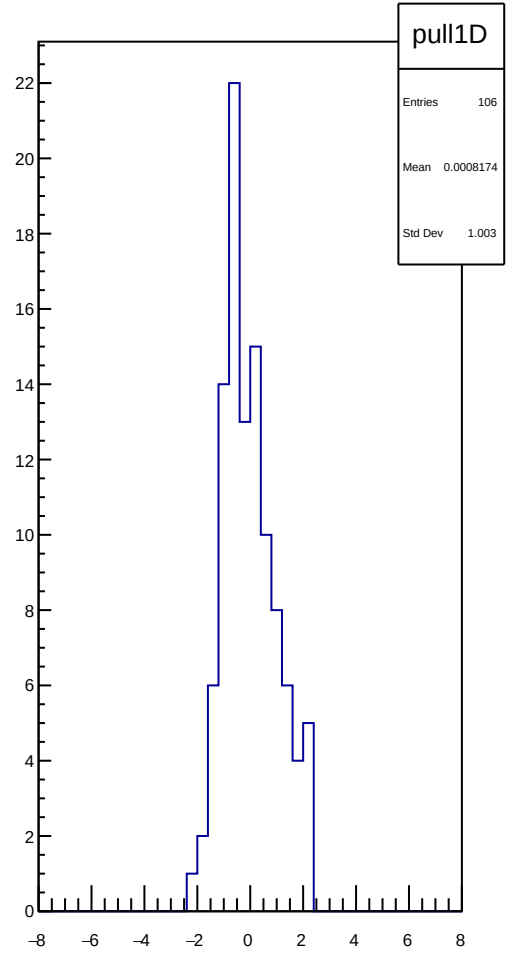

diff_bpm0i01X_rms vs run
χ² / ndf 7015 / 105
p0 1758 ± 1.238
1900
1800
1700
1600
1500
1400
1300
1200

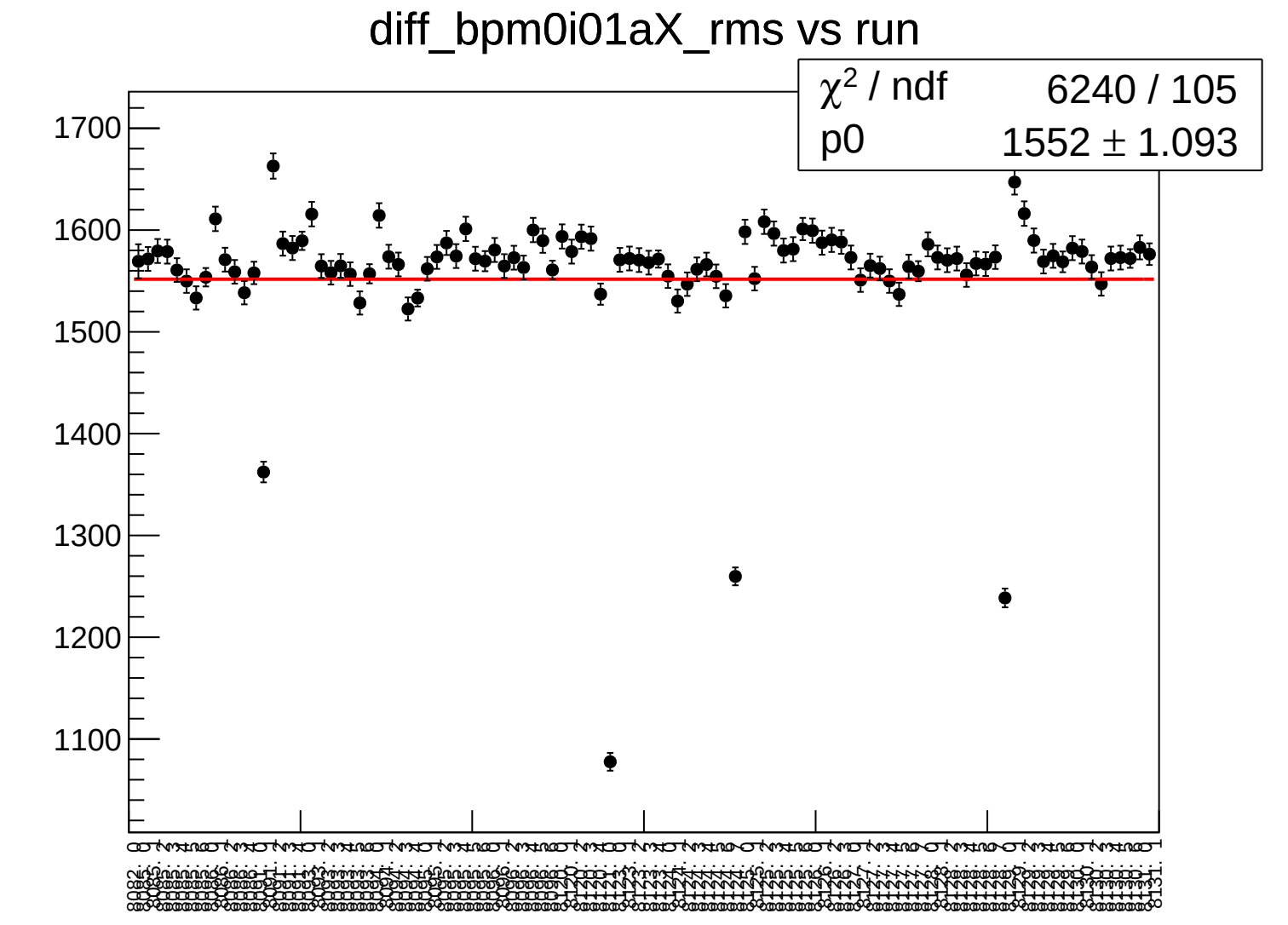

diff_bpm0i01Y_mean vs run
χ² / ndf 98.44 / 105
p0 1.738 ± 1.596
pull
Entries 106
Mean 4564
Std Dev 0

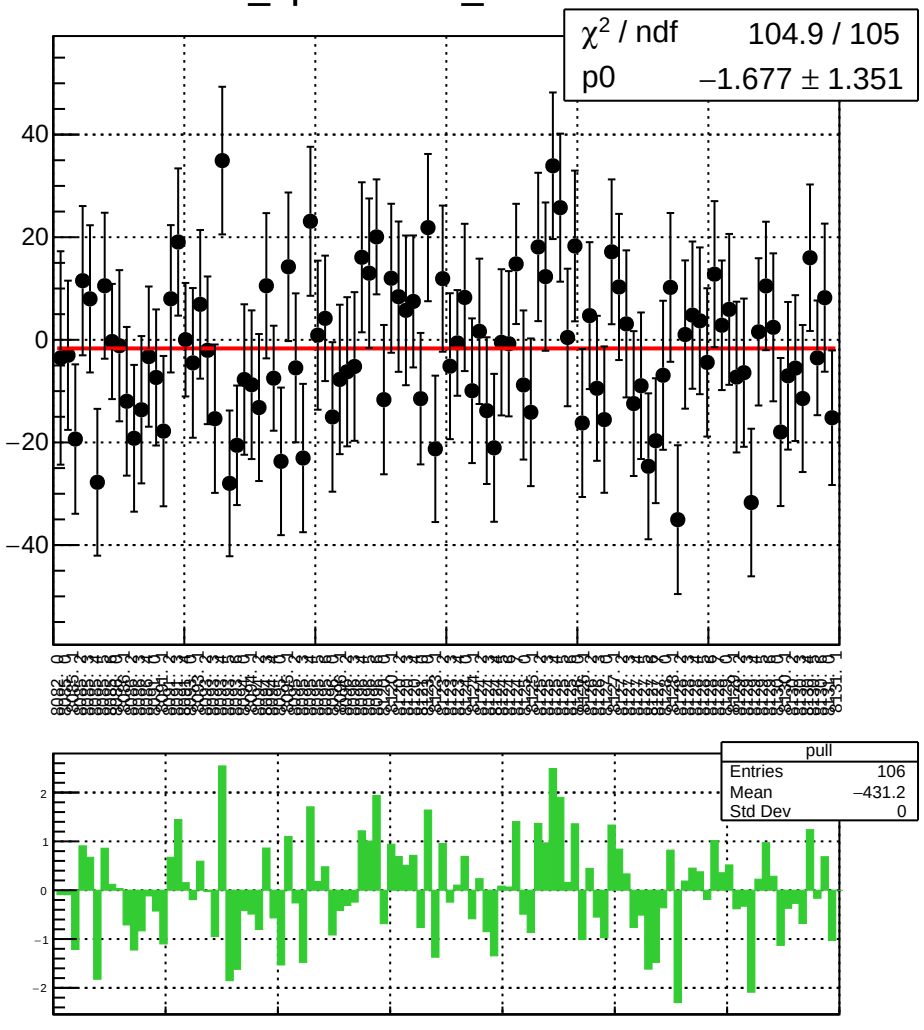

pull1D
Entries 106
Mean 0.000716
Std Dev 0.9637

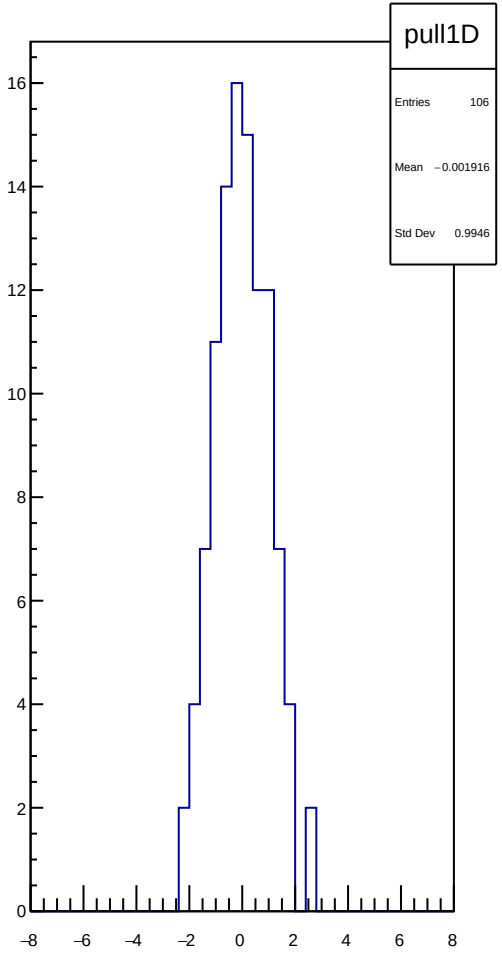

diff_bpm0i01Y_rms vs run
χ² / ndf 6162 / 105
p0 1603 ± 1.129
1700
1600
1500
1400
1300
1200
1100

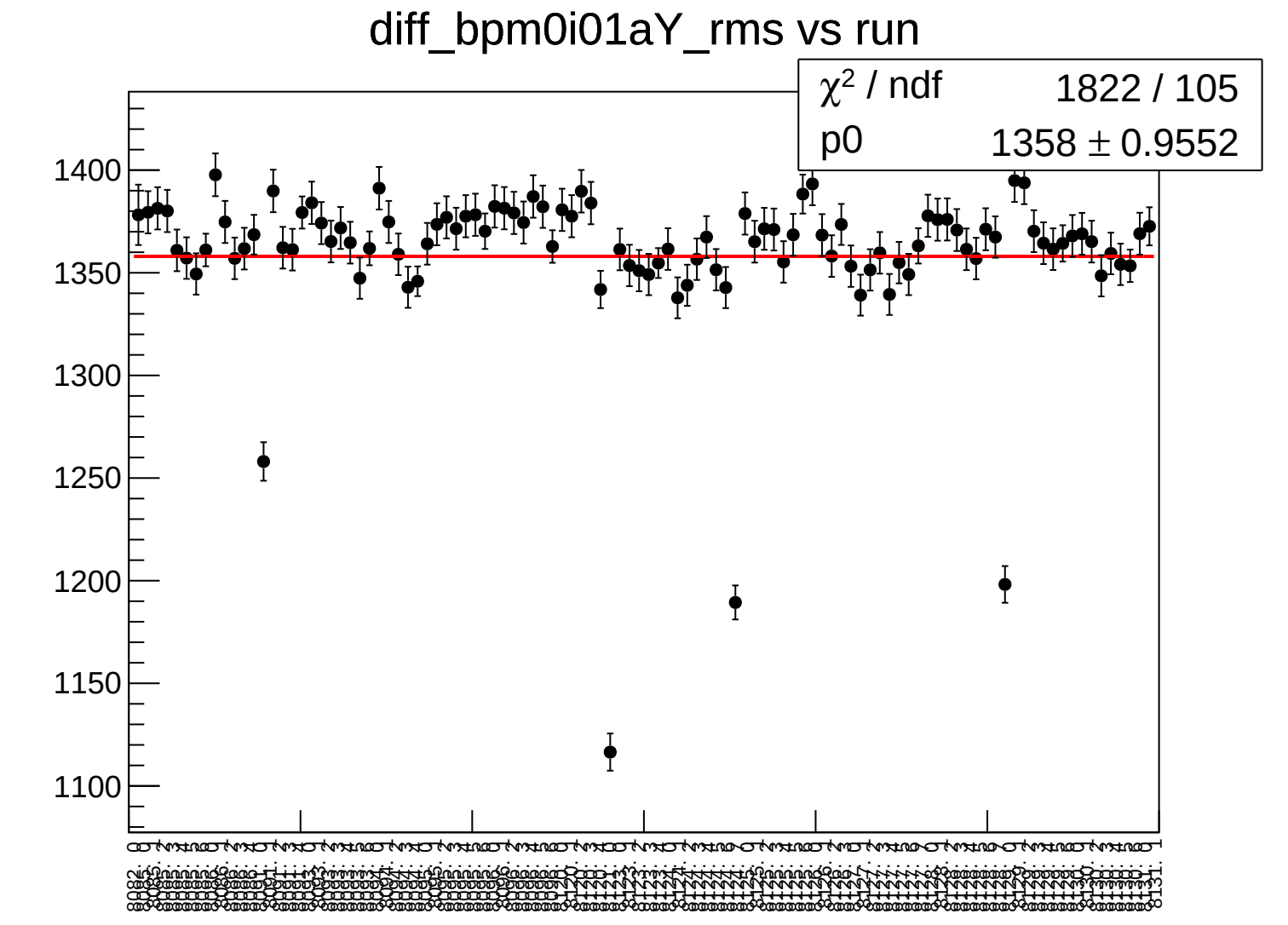

diff_bpm0i01aX_mean vs run
χ² / ndf 106.6 / 105
p0 −26.64 ± 1.545
20
0
−20
−40
−60
−80
pull
Entries 106
Mean 8576
Std Dev 0
2
1
0
−1
−2

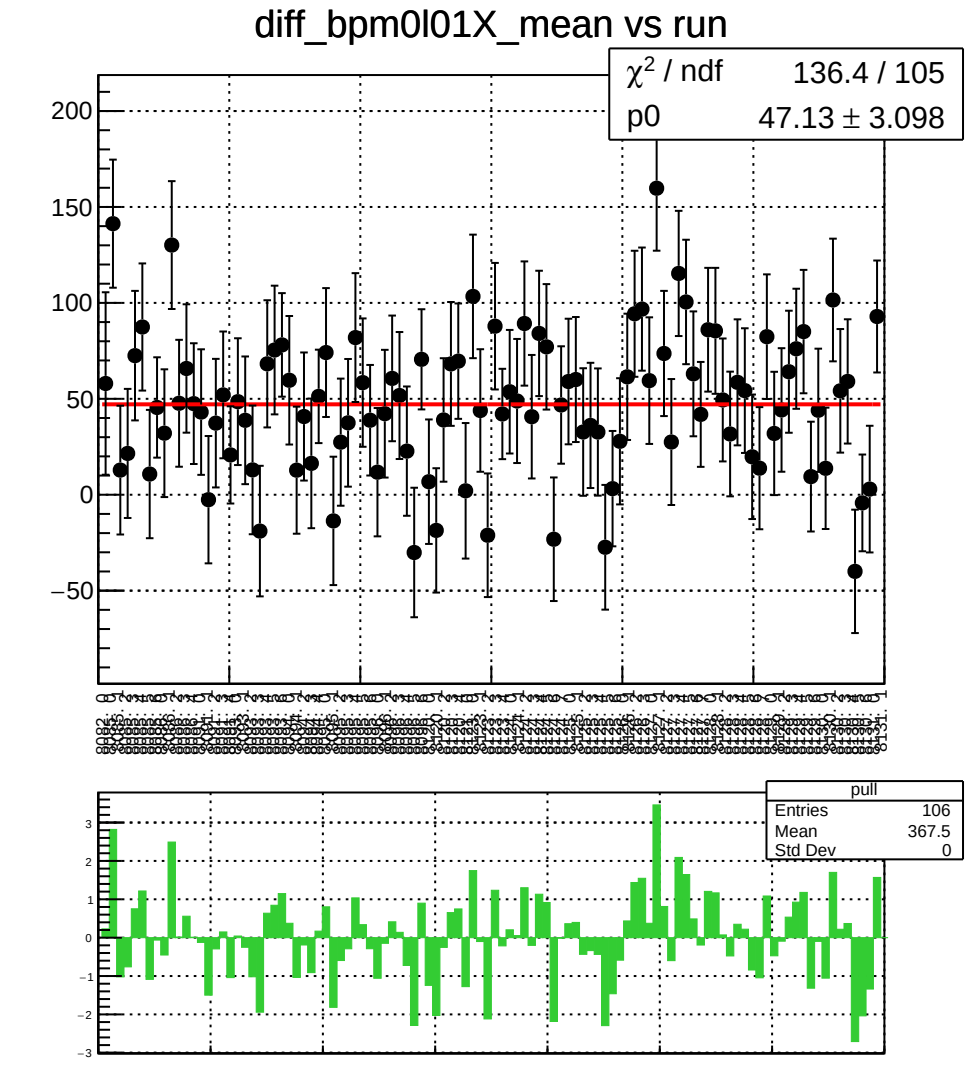

pull1D
Entries 106
Mean 0.0008174
Std Dev 1.003
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

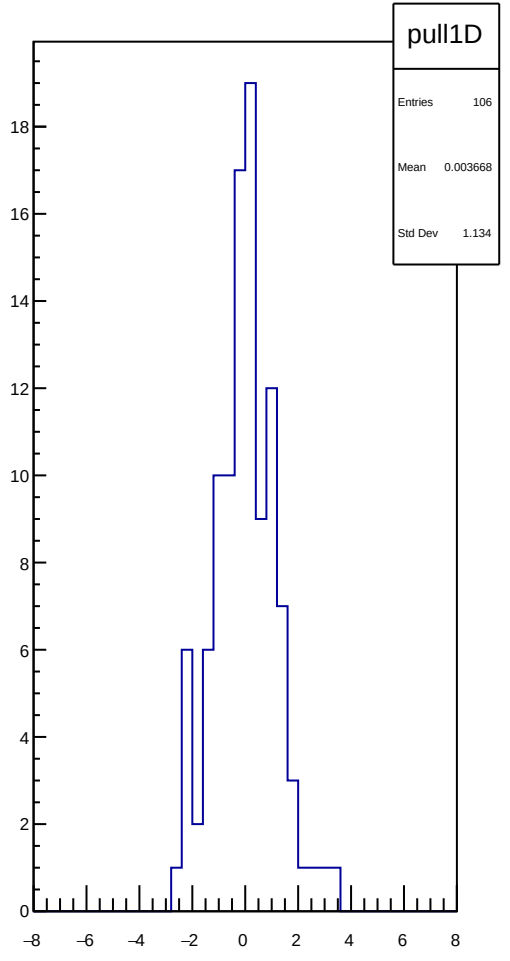

diff_bpm0i01aX_rms vs run
χ² / ndf 6240 / 105
p0 1552 ± 1.093
1700
1600
1500
1400
1300
1200
1100

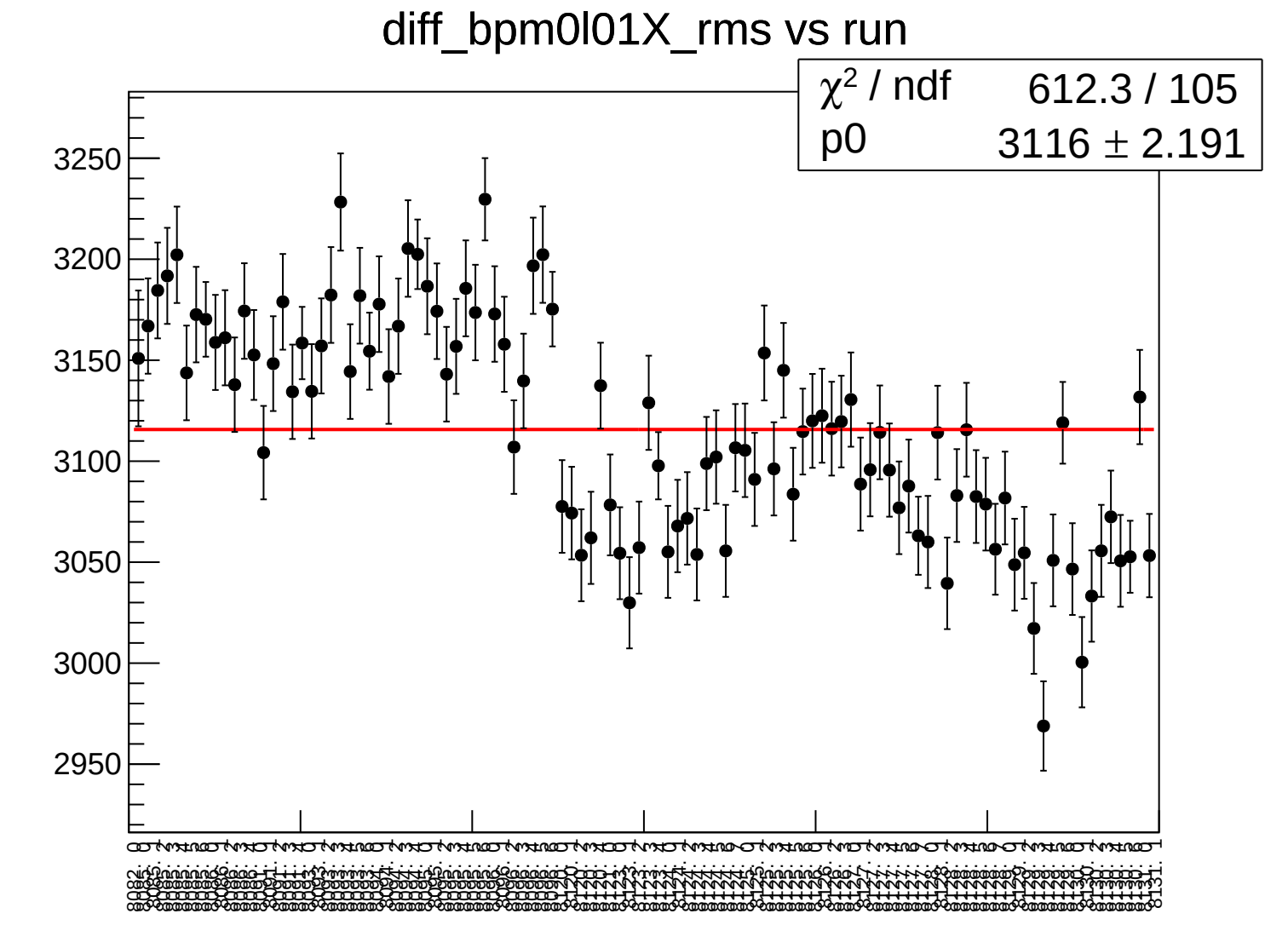

diff_bpm0i01aY_mean vs run
χ² / ndf 104.9 / 105
p0 −1.677 ± 1.351
40
20
0
−20
−40
pull
Entries 106
Mean −431.2
Std Dev 0
2
1
0
−1
−2

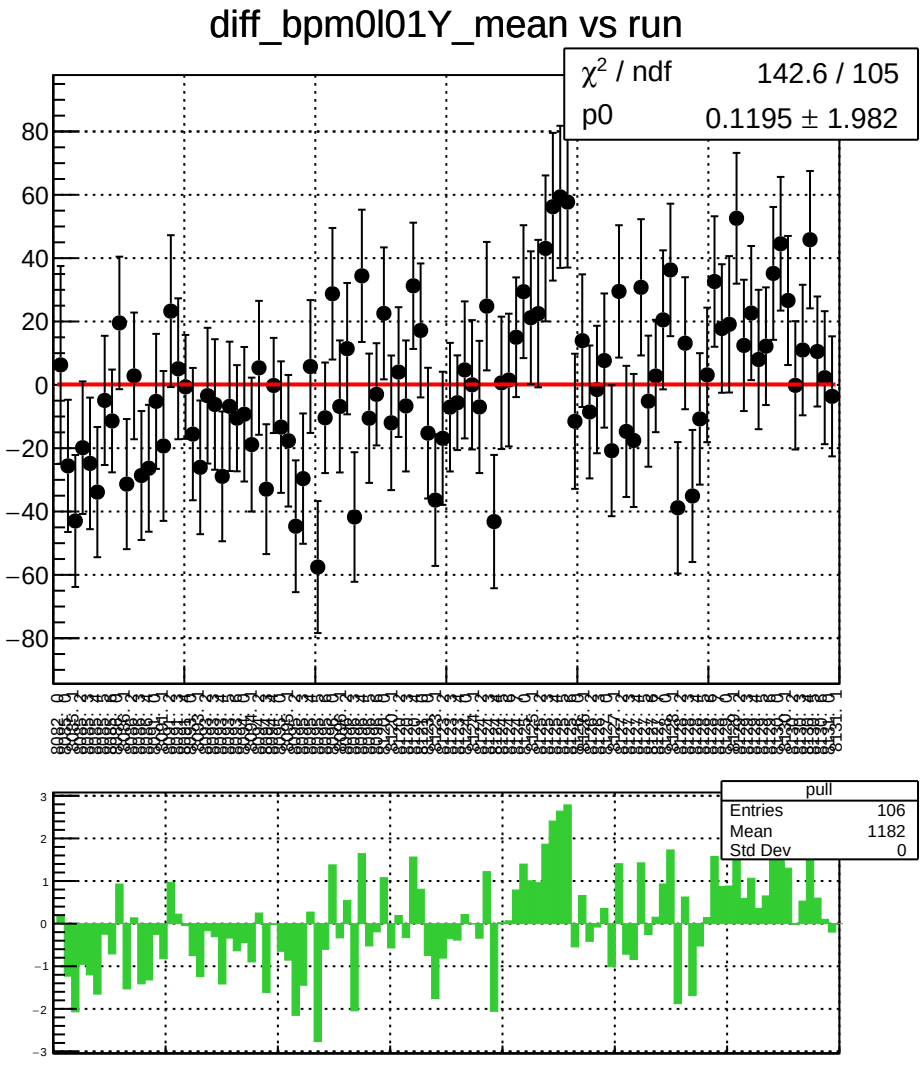

pull1D
Entries 106
Mean −0.001916
Std Dev 0.9946
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

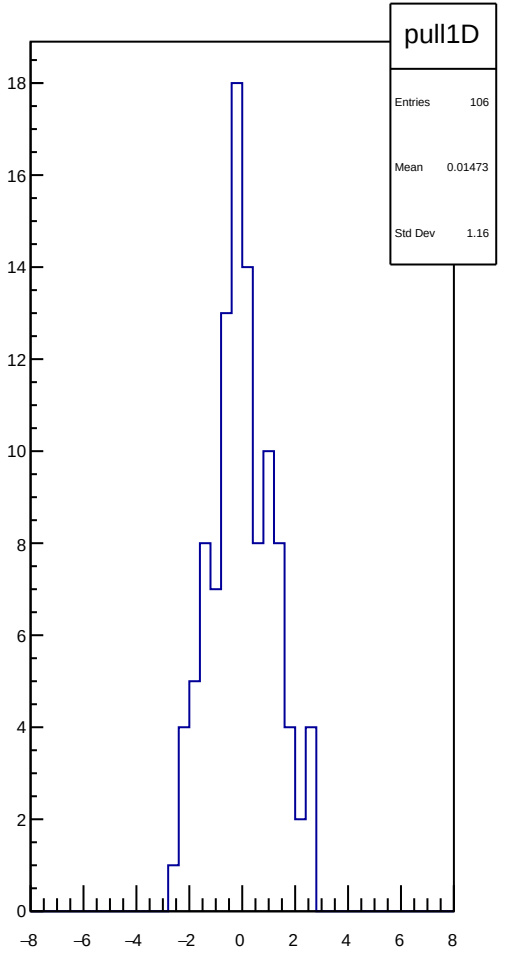

diff_bpm0i01aY_rms vs run
χ² / ndf 1822 / 105
p0 1358 ± 0.9552
1400
1350
1300
1250
1200
1150
1100

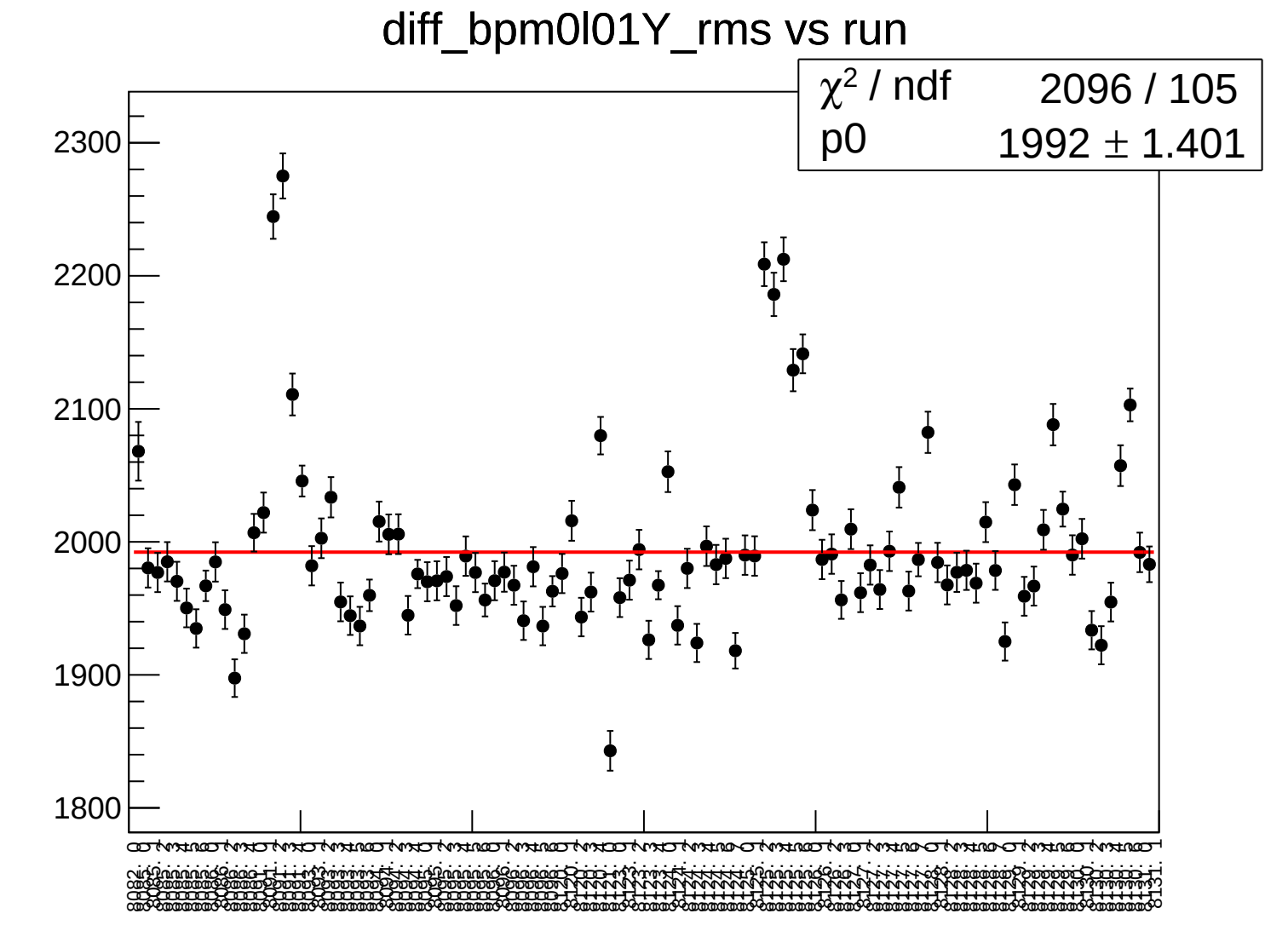

diff_bpm0l01X_mean vs run
χ² / ndf 136.4 / 105
p0 47.13 ± 3.098
200
150
100
50
0
−50
pull
Entries 106
Mean 367.5
Std Dev 0
3
2
1
0
−1
−2
−3

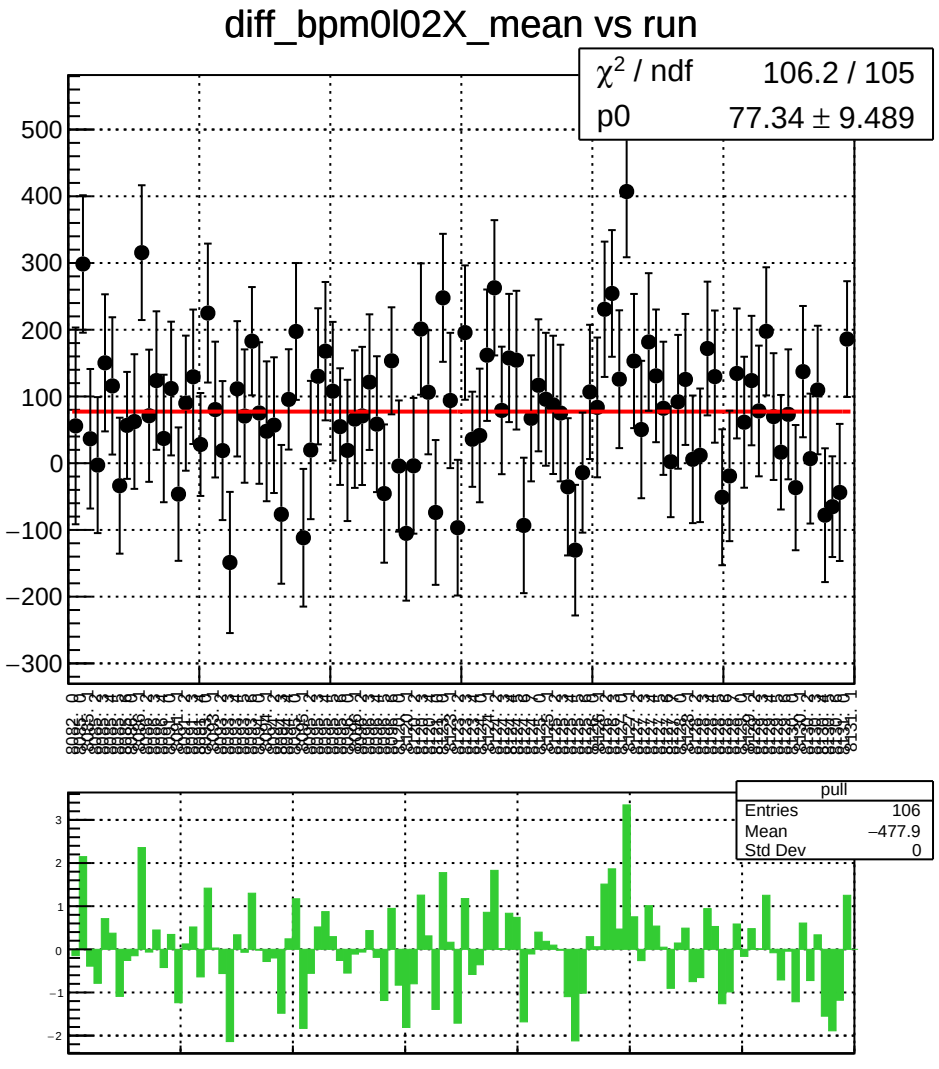

pull1D
Entries 106
Mean 0.003668
Std Dev 1.134
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

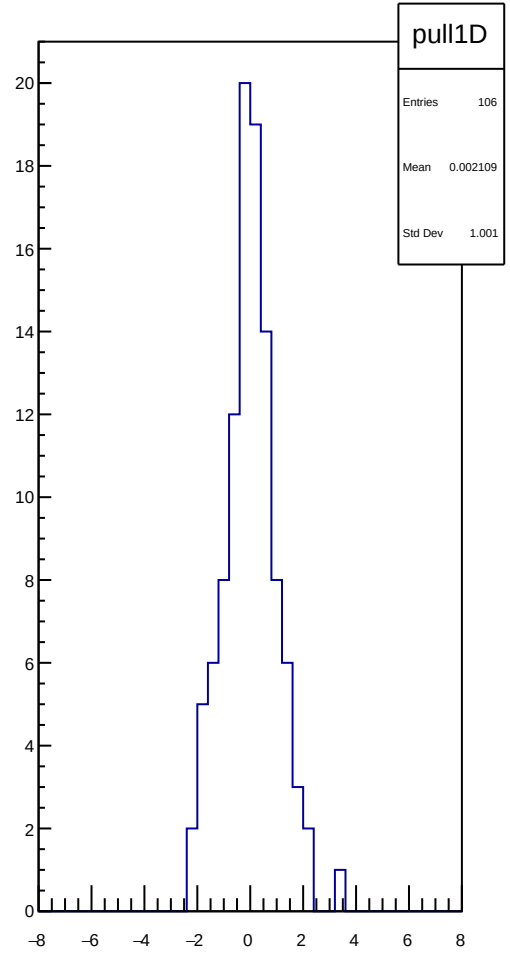

diff_bpm0l01X_rms vs run
χ² / ndf 612.3 / 105
p0 3116 ± 2.191
3250
3200
3150
3100
3050
3000
2950

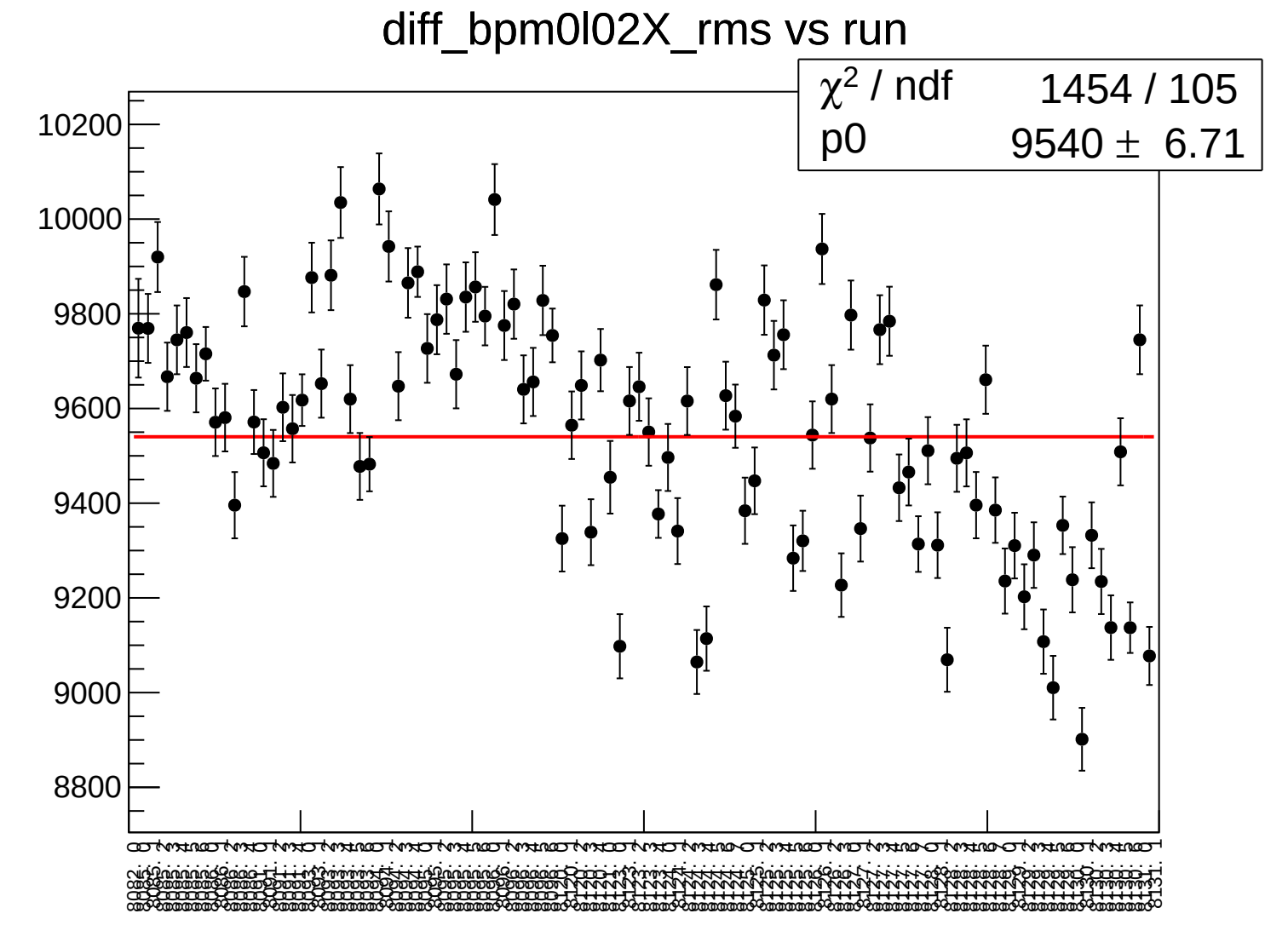

diff_bpm0l01Y_mean vs run
χ² / ndf 142.6 / 105
p0 0.1195 ± 1.982
pull
Entries 106
Mean 1182
Std Dev 0

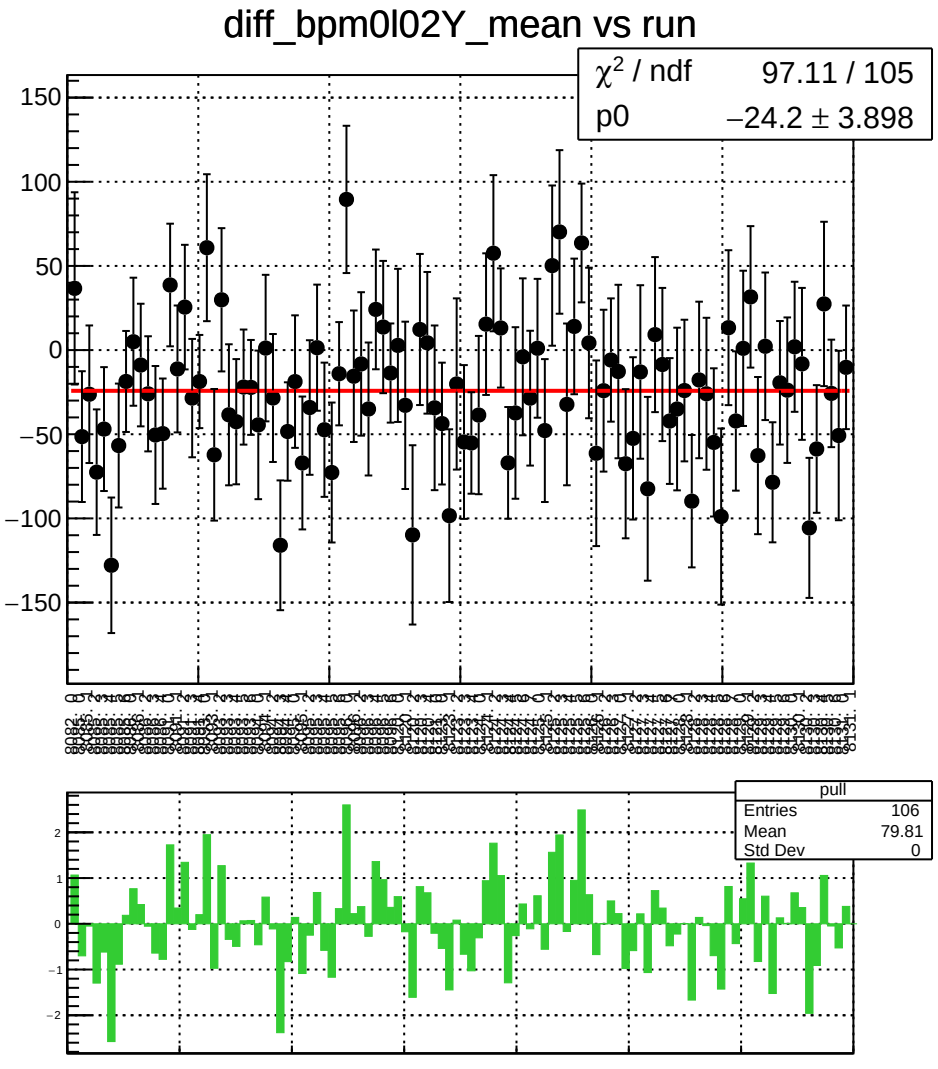

pull1D
Entries 106
Mean 0.01473
Std Dev 1.16

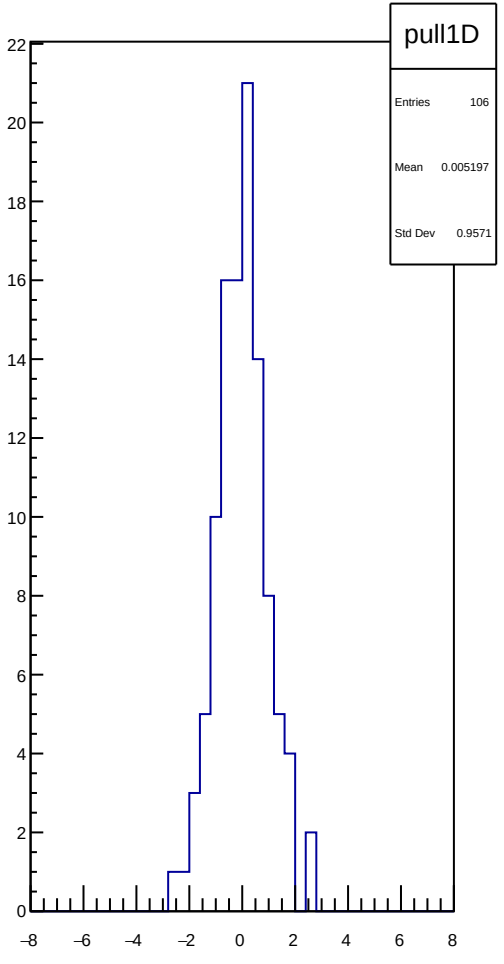

diff_bpm0l01Y_rms vs run
χ² / ndf 2096 / 105
p0 1992 ± 1.401
2300
2200
2100
2000
1900
1800

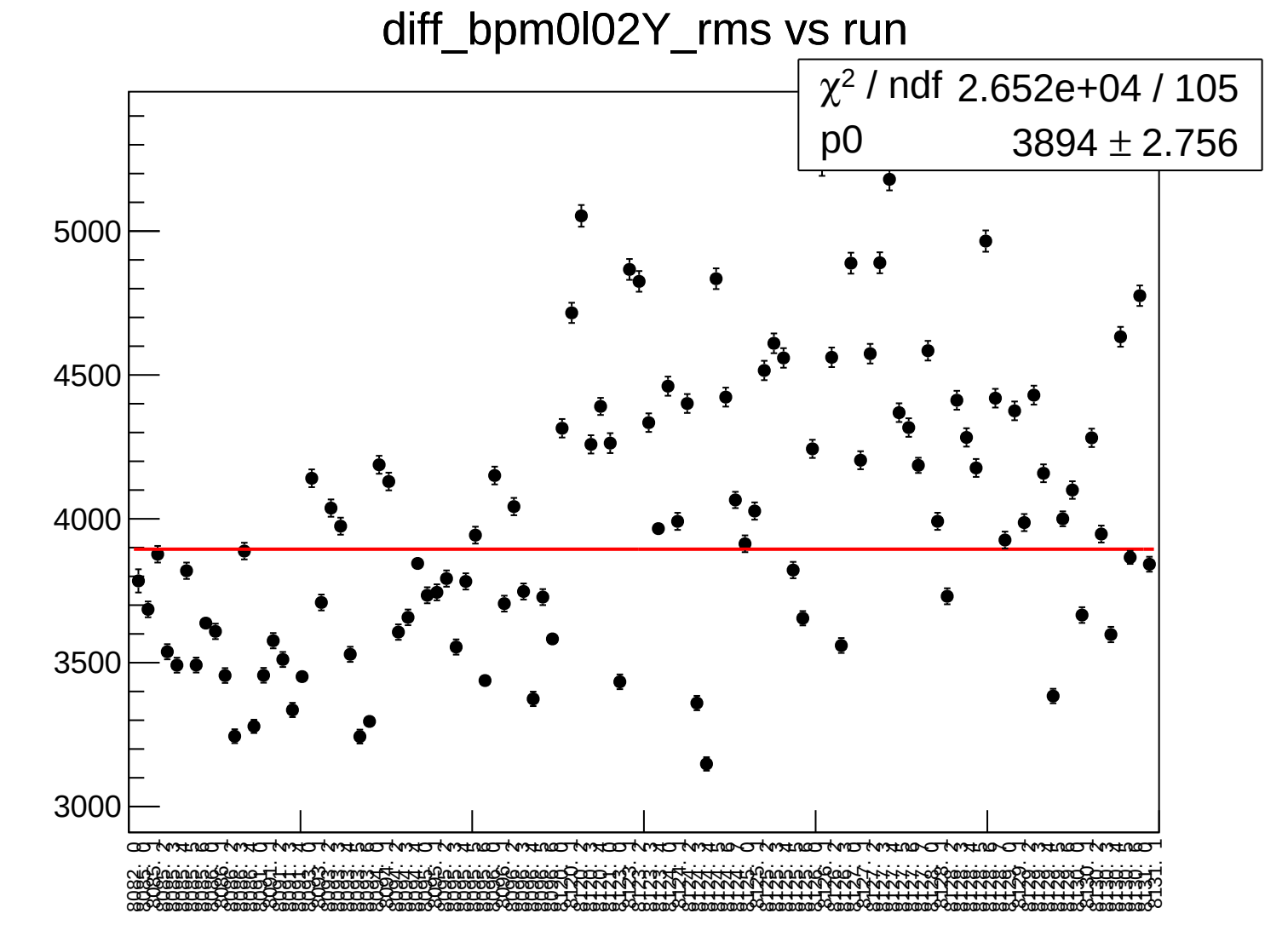

diff_bpm0l02X_mean vs run
$\chi^2$ / ndf 106.2 / 105
p0 77.34 ± 9.489
pull
Entries 106
Mean −477.9
Std Dev 0

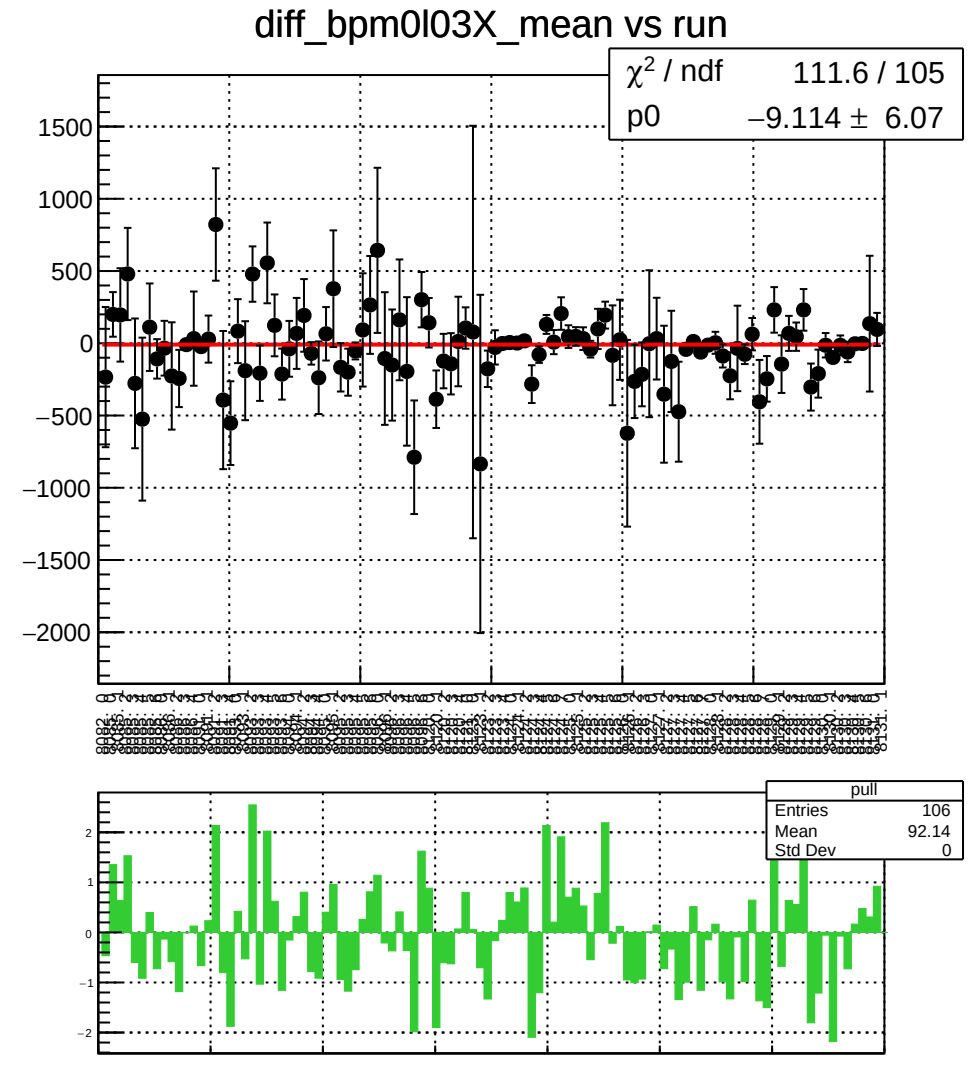

pull1D
Entries 106
Mean 0.002109
Std Dev 1.001

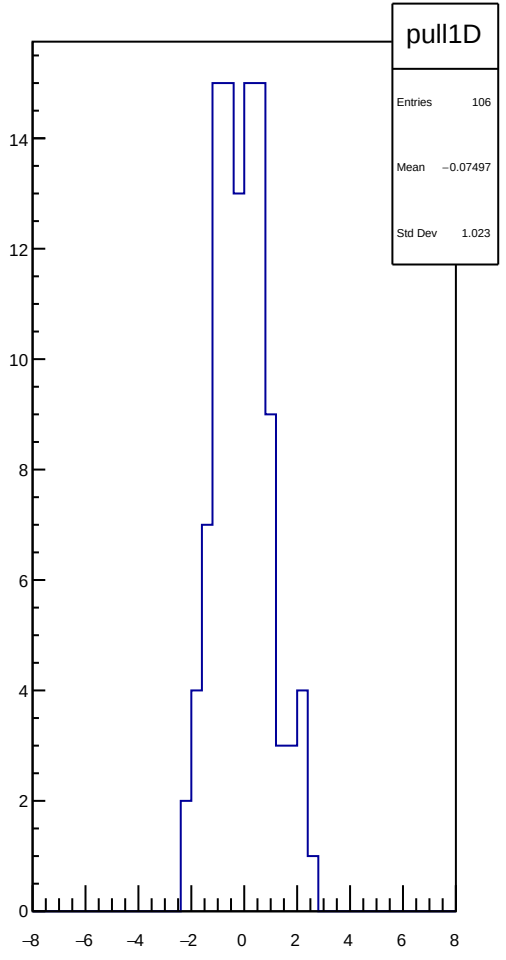

diff_bpm0l02X_rms vs run
χ² / ndf 1454 / 105
p0 9540 ± 6.71
10200
10000
9800
9600
9400
9200
9000
8800

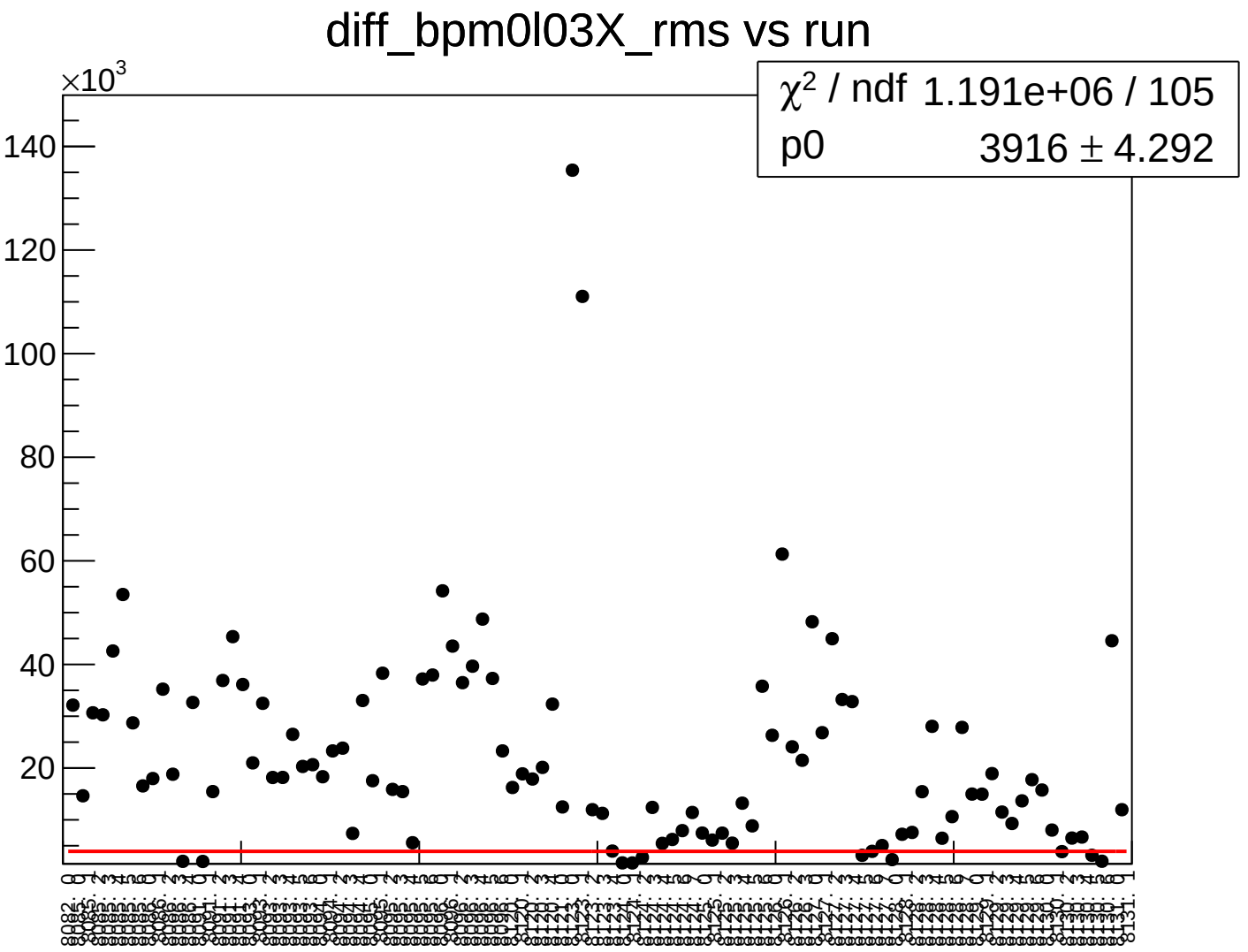

diff_bpm0l02Y_mean vs run
χ² / ndf 97.11 / 105
p0 −24.2 ± 3.898
150
100
50
0
−50
−100
−150
pull
Entries 106
Mean 79.81
Std Dev 0
2
1
0
−1
−2

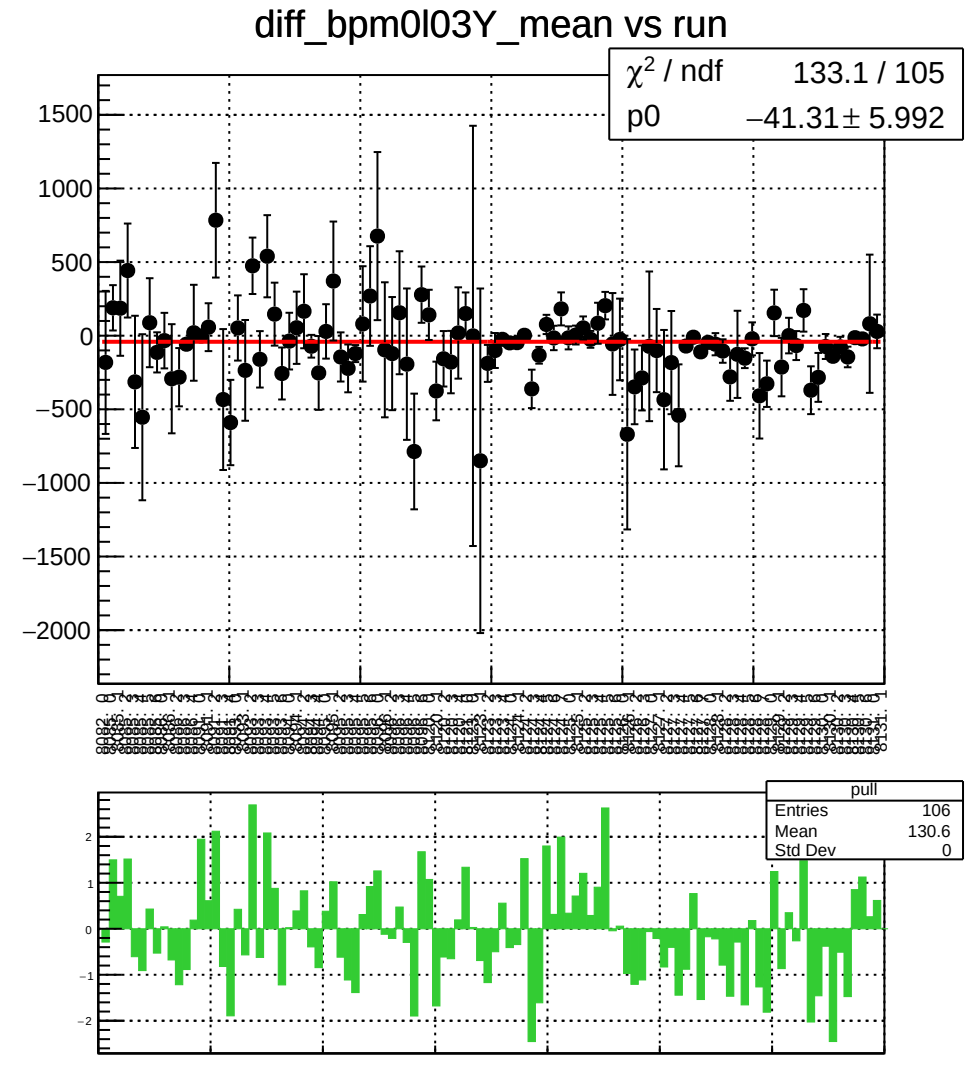

pull1D
Entries 106
Mean 0.005197
Std Dev 0.9571
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

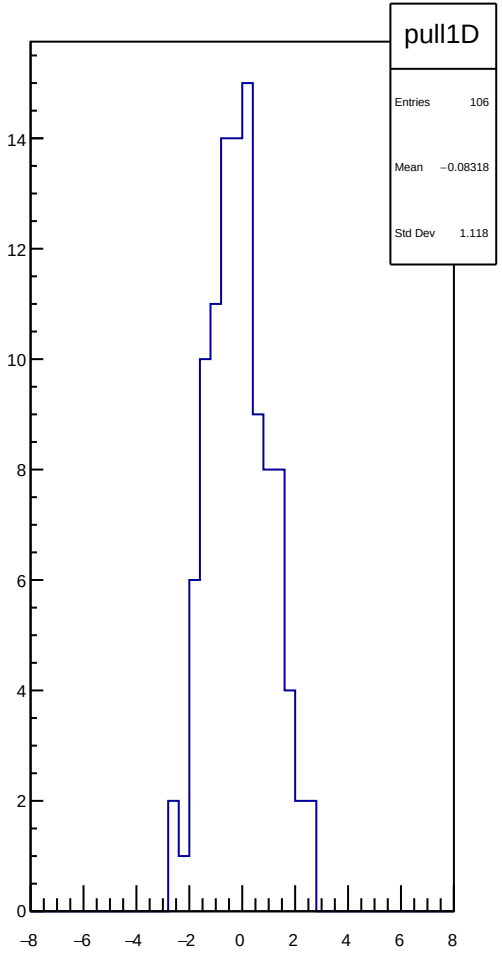

diff_bpm0l02Y_rms vs run
χ² / ndf 2.652e+04 / 105
p0 3894 ± 2.756
5000
4500
4000
3500
3000

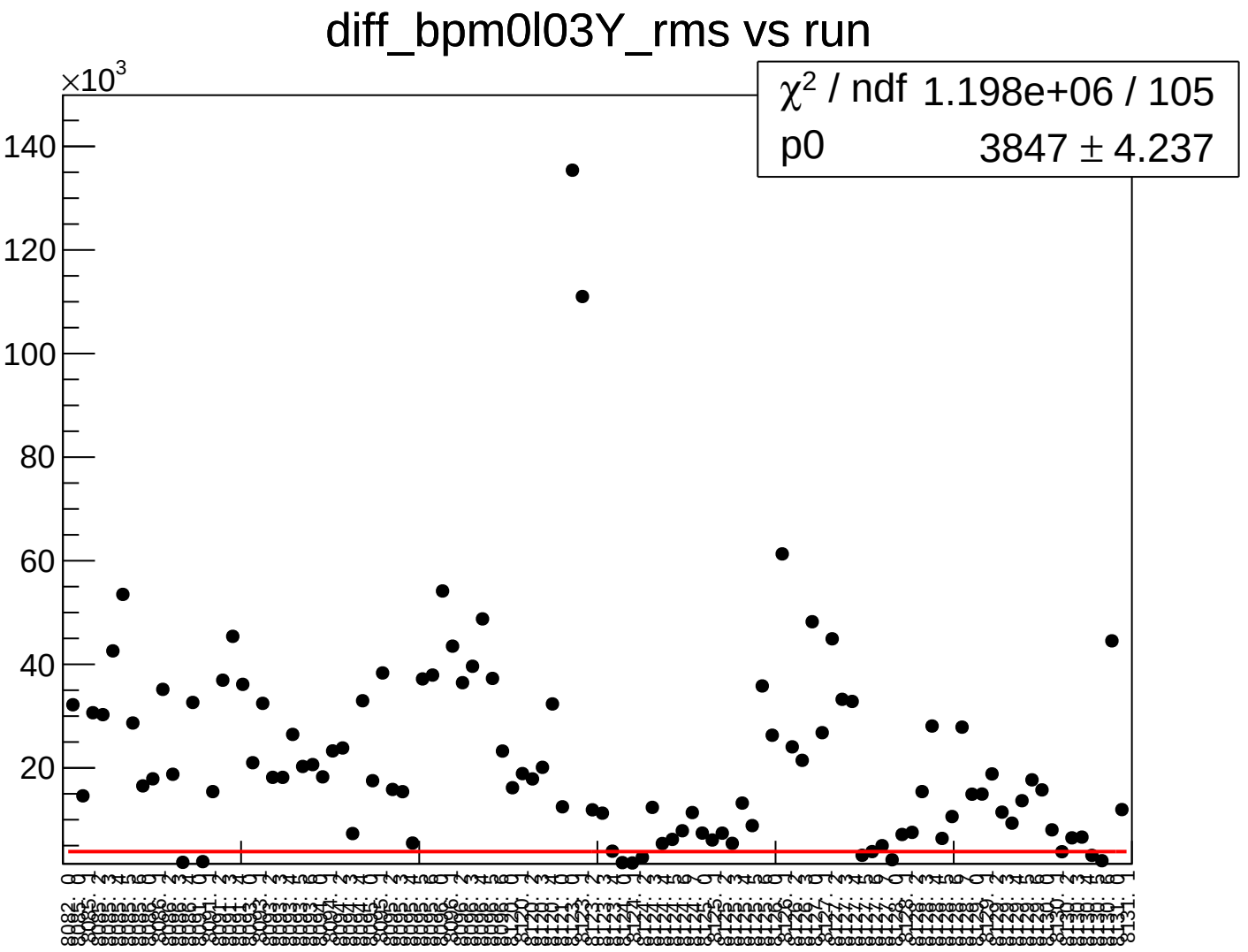

diff_bpm0l03X_mean vs run
χ² / ndf 111.6 / 105
p0 −9.114 ± 6.07
1500
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 106
Mean 92.14
Std Dev 0
2
1
0
−1
−2

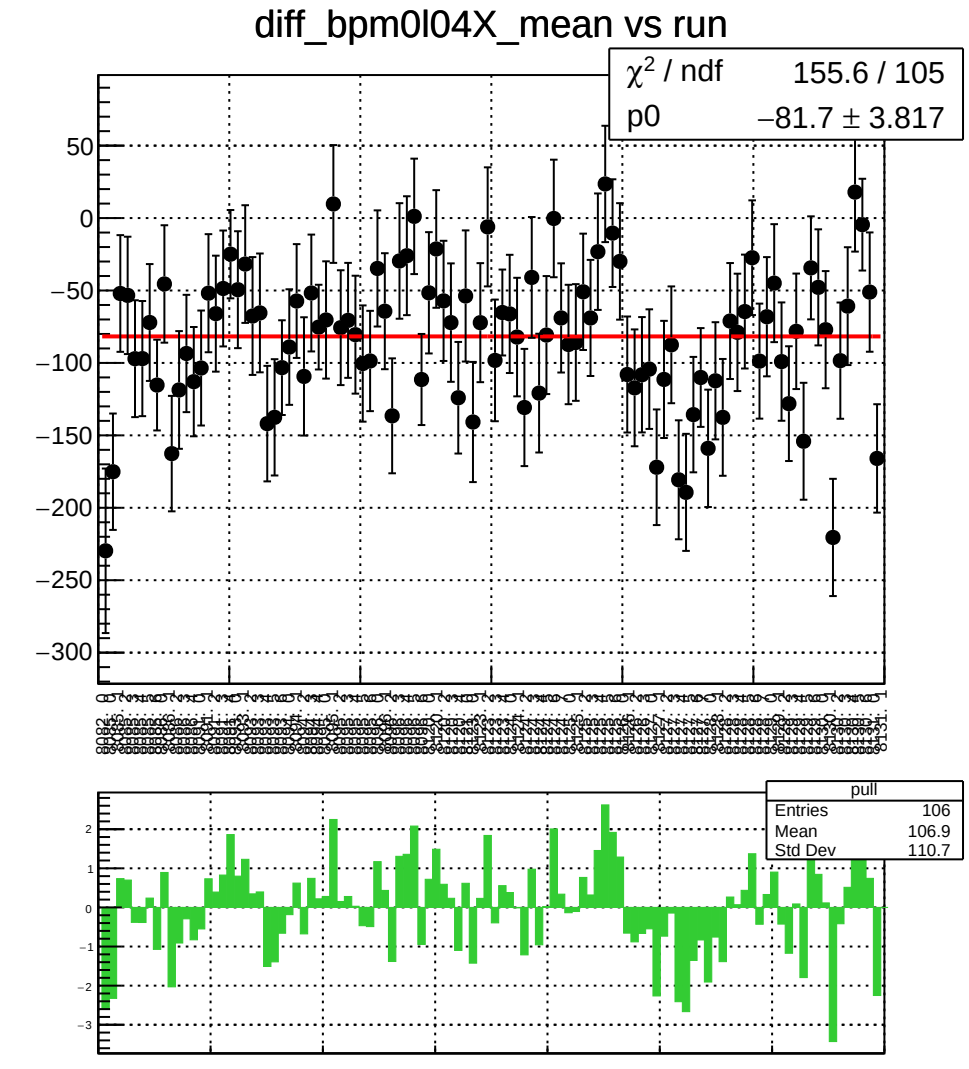

pull1D
Entries 106
Mean −0.07497
Std Dev 1.023
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

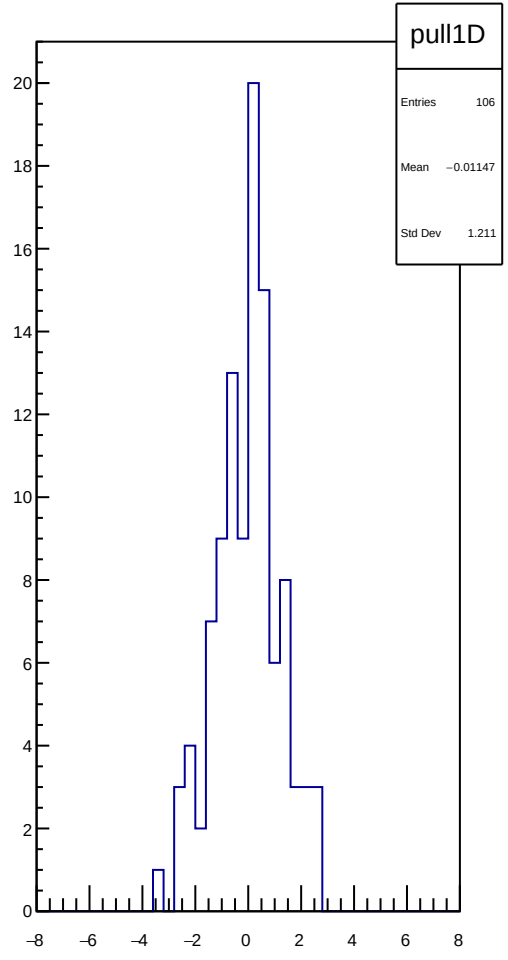

diff_bpm0l03X_rms vs run
×10^3
χ^2 / ndf 1.191e+06 / 105
p0 3916 ± 4.292
140
120
100
80
60
40
20

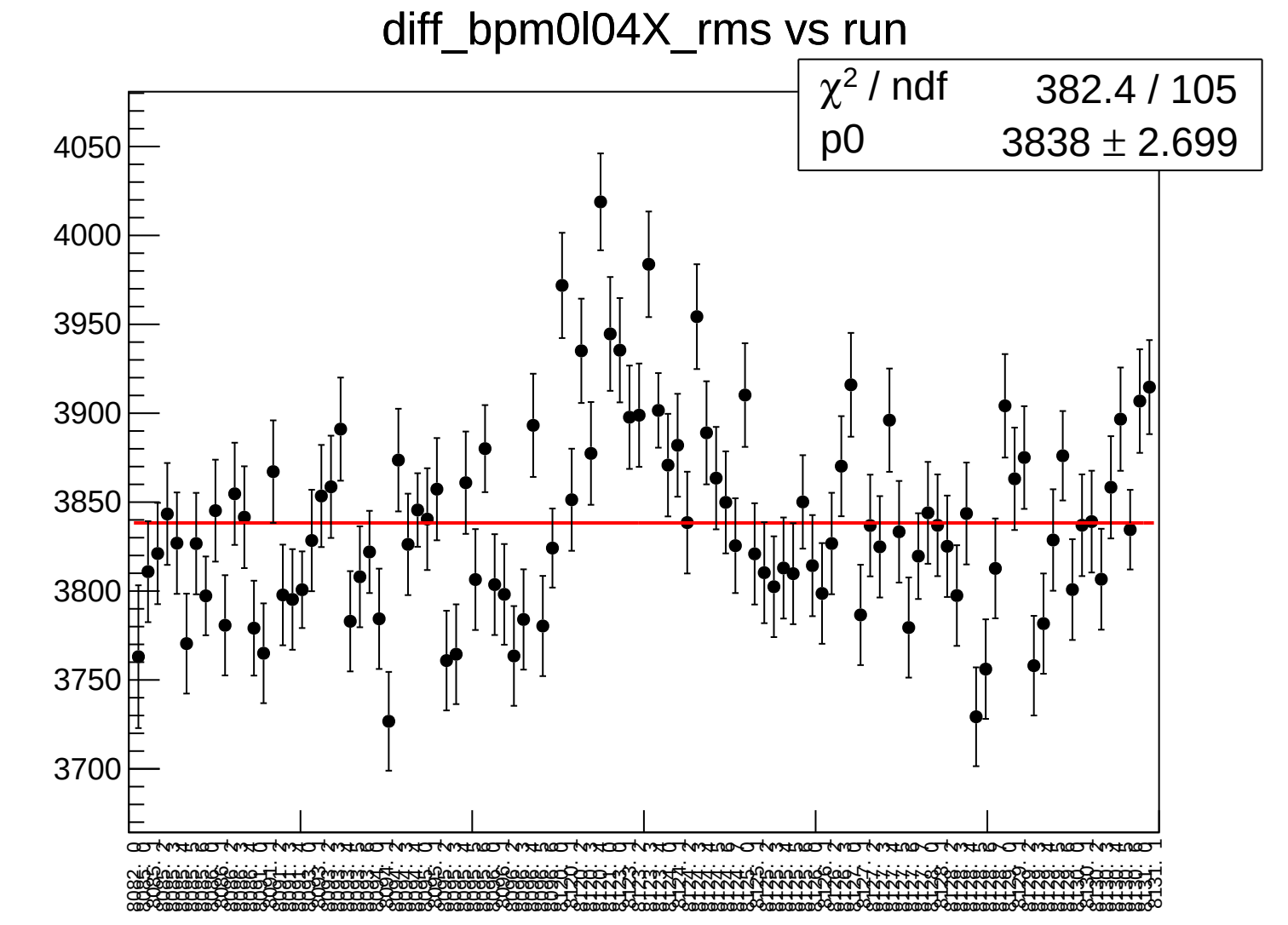

diff_bpm0l03Y_mean vs run
χ² / ndf 133.1 / 105
p0 −41.31 ± 5.992
1500
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 106
Mean 130.6
Std Dev 0
2
1
0
−1
−2

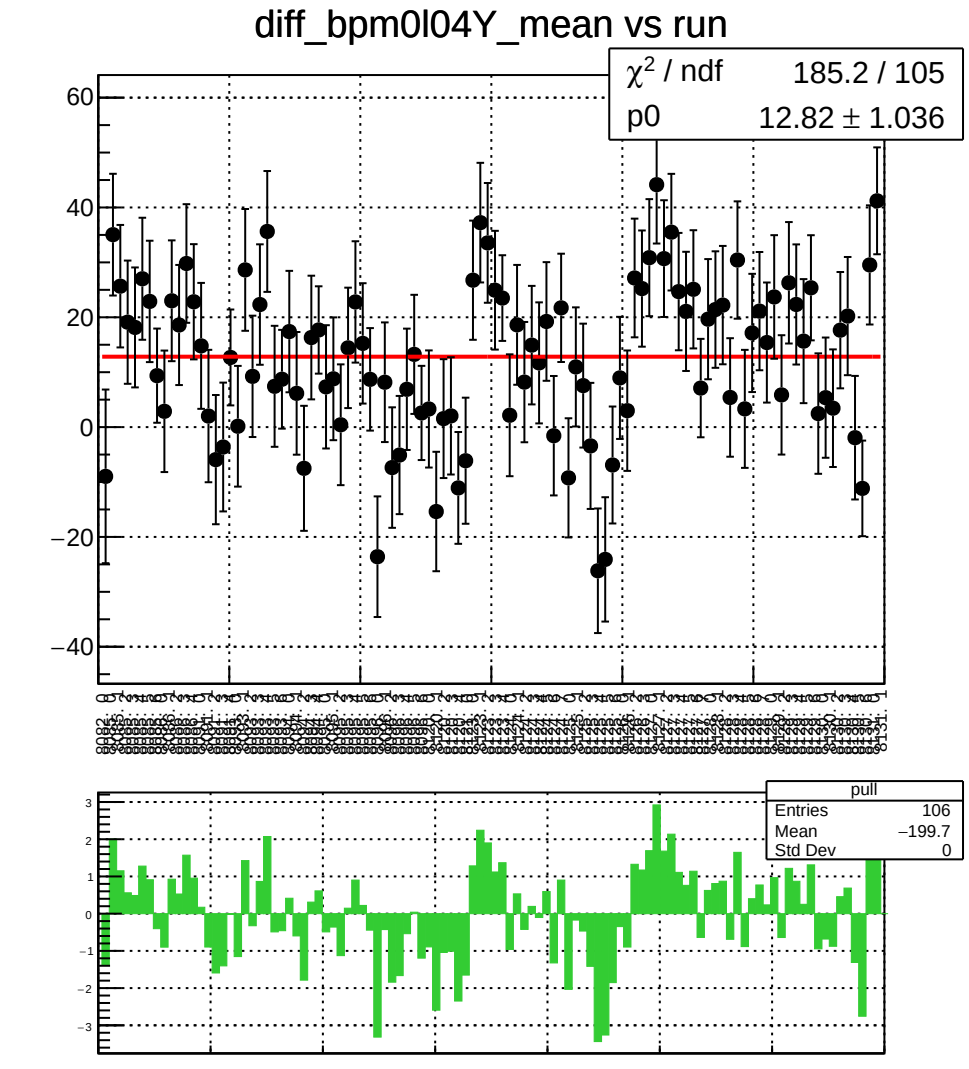

pull1D
Entries 106
Mean −0.08318
Std Dev 1.118
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

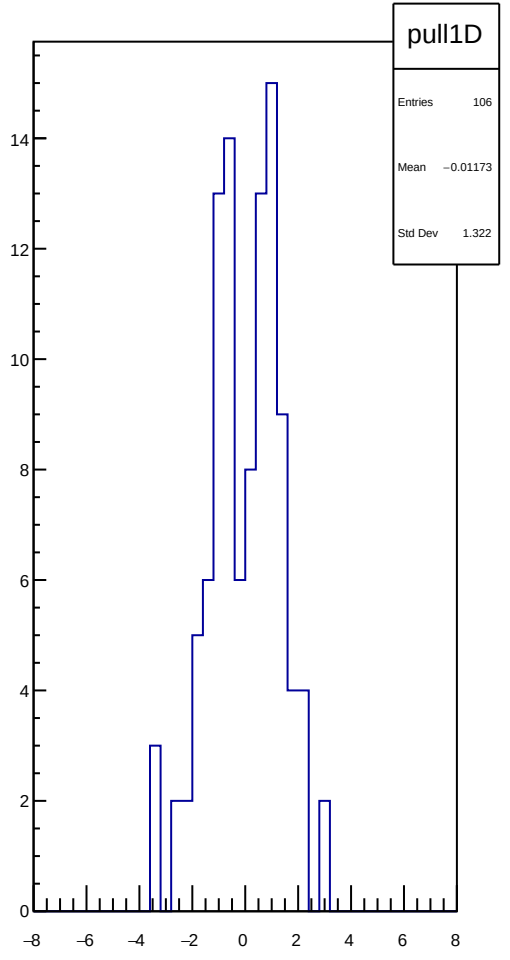

diff_bpm0l03Y_rms vs run
×10^3
χ^2 / ndf 1.198e+06 / 105
p0 3847 ± 4.237
140
120
100
80
60
40
20

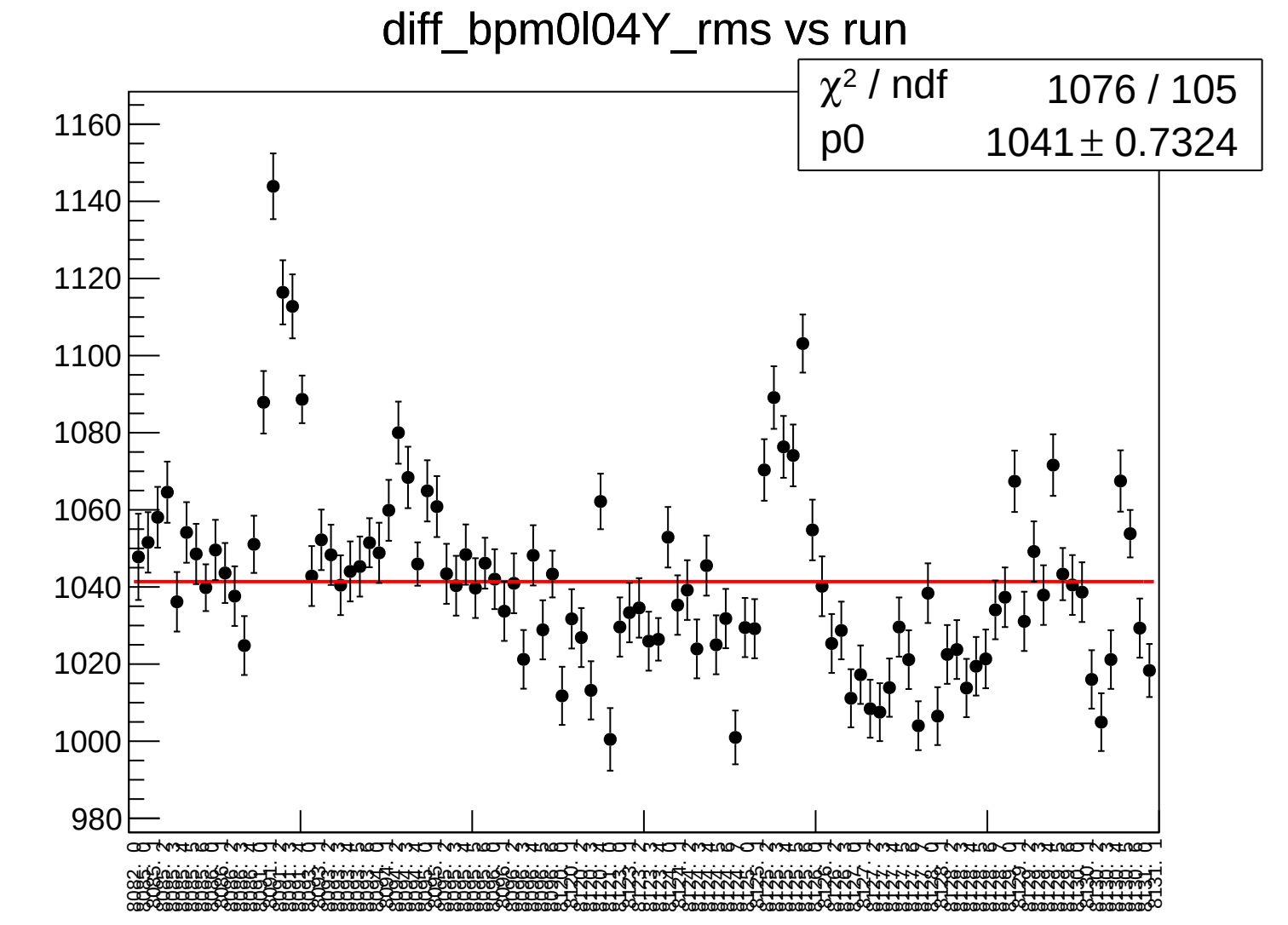

diff_bpm0l04X_mean vs run
χ² / ndf 155.6 / 105
p0 −81.7 ± 3.817
pull
Entries 106
Mean 106.9
Std Dev 110.7

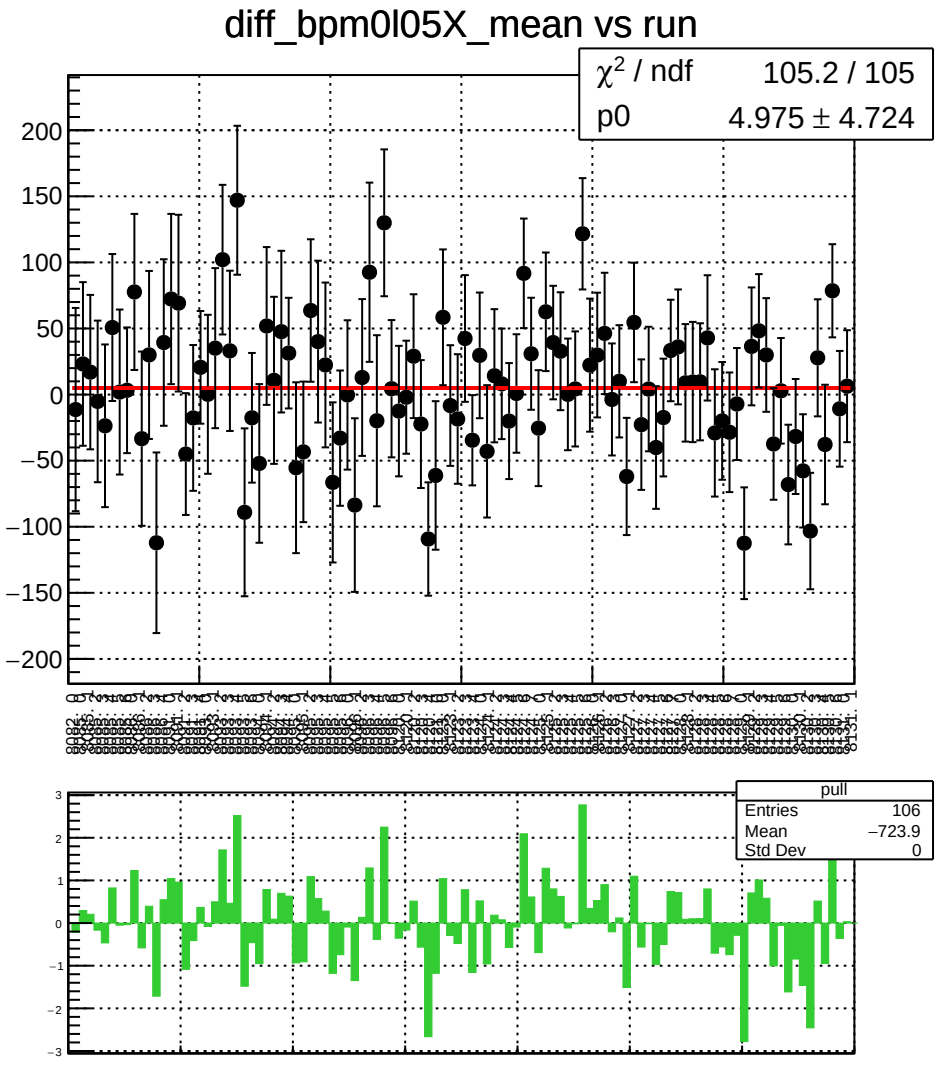

pull1D
Entries 106
Mean −0.01147
Std Dev 1.211

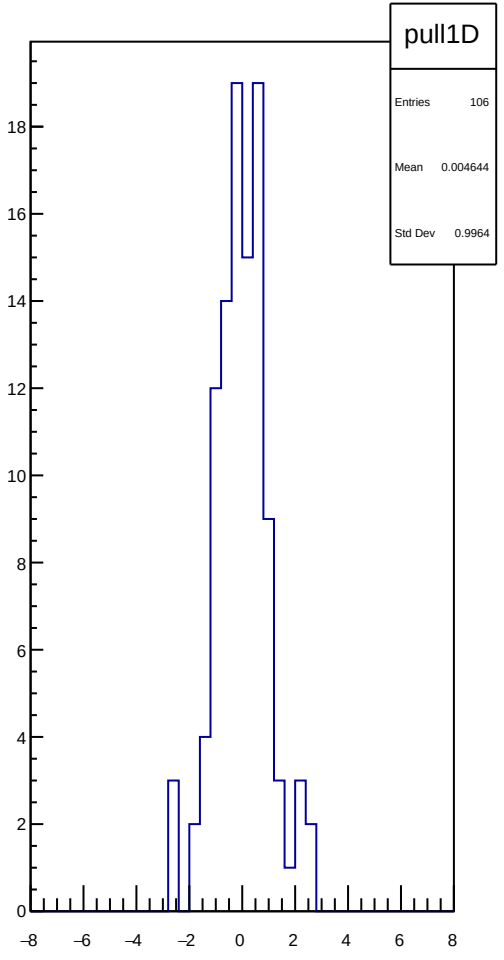

diff_bpm0l04X_rms vs run
χ² / ndf 382.4 / 105
p0 3838 ± 2.699
4050
4000
3950
3900
3850
3800
3750
3700

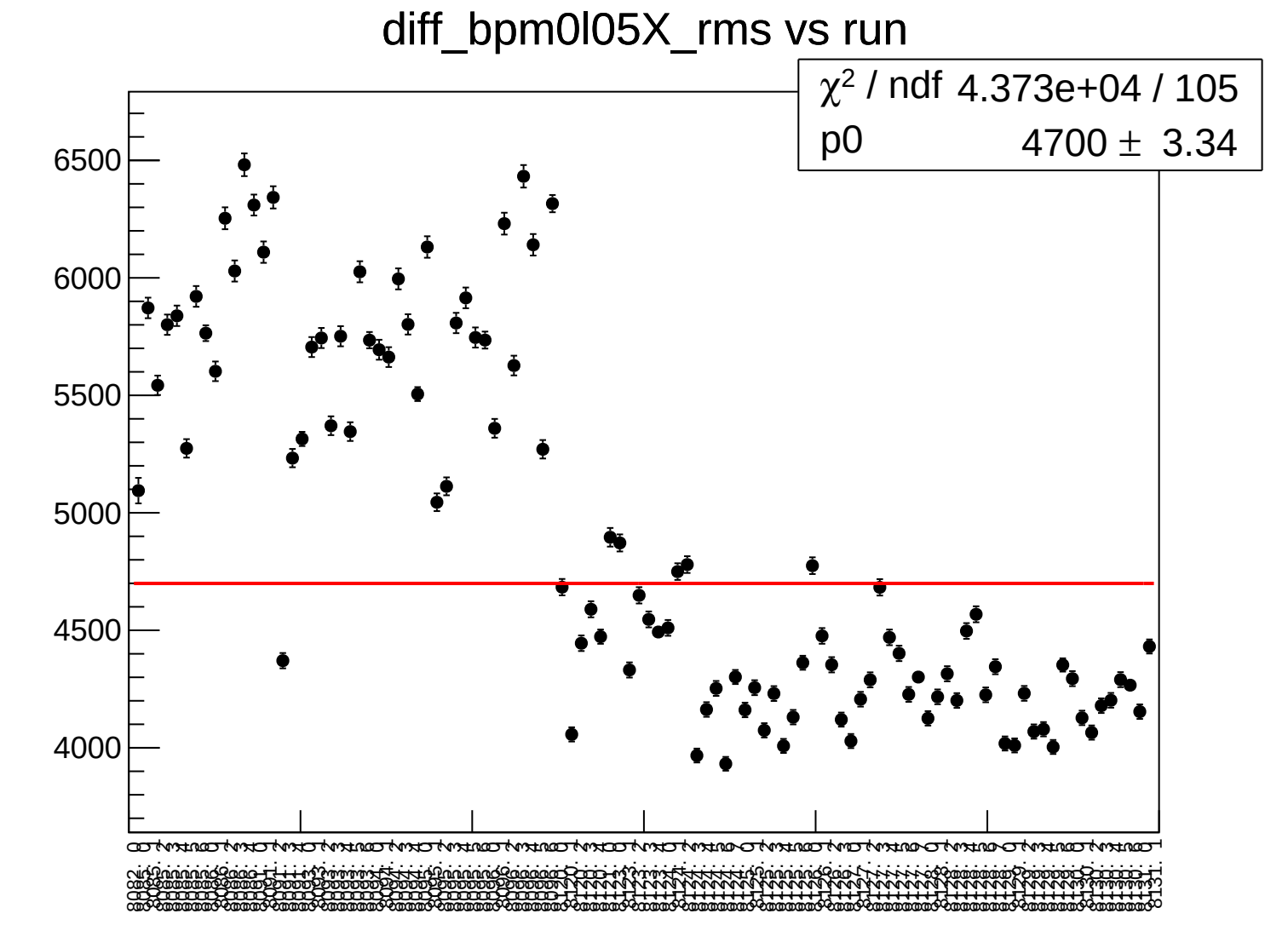

diff_bpm0l04Y_mean vs run
χ² / ndf 185.2 / 105
p0 12.82 ± 1.036
pull
Entries 106
Mean −199.7
Std Dev 0

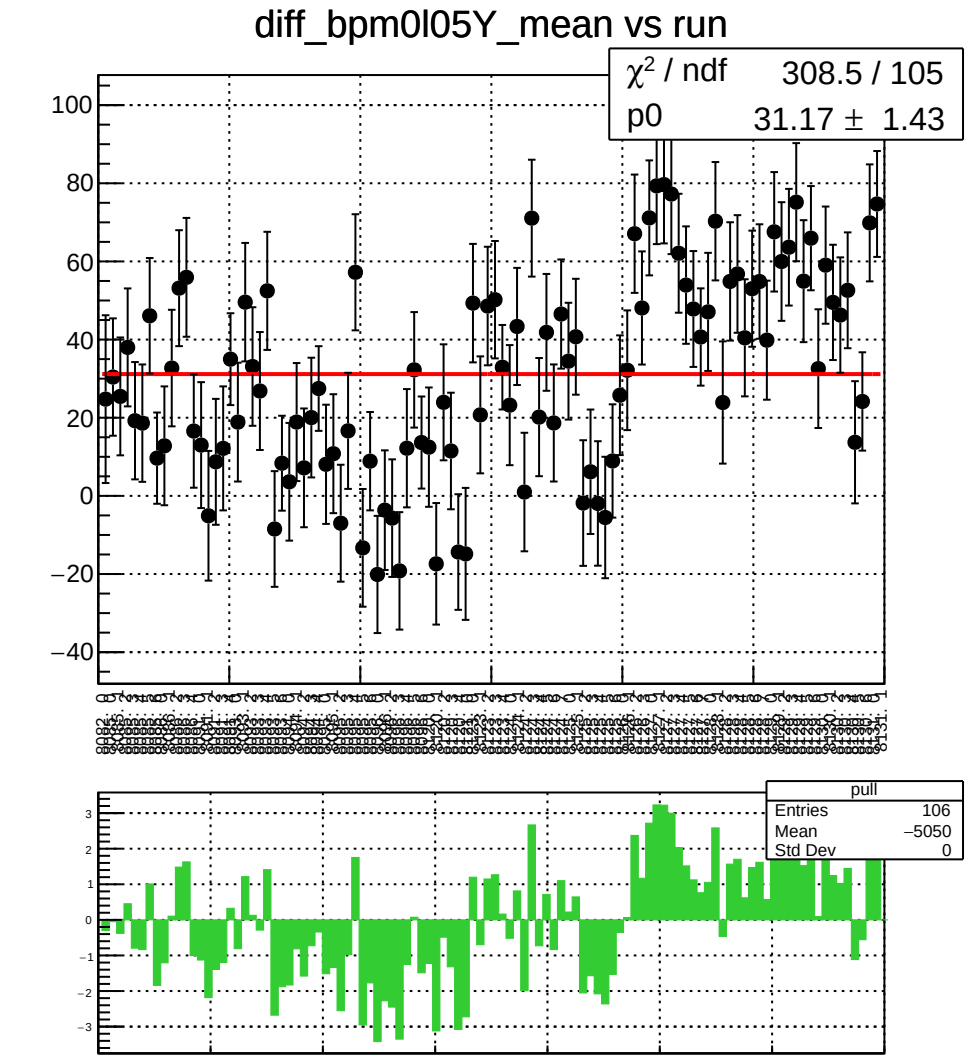

pull1D
Entries 106
Mean −0.01173
Std Dev 1.322

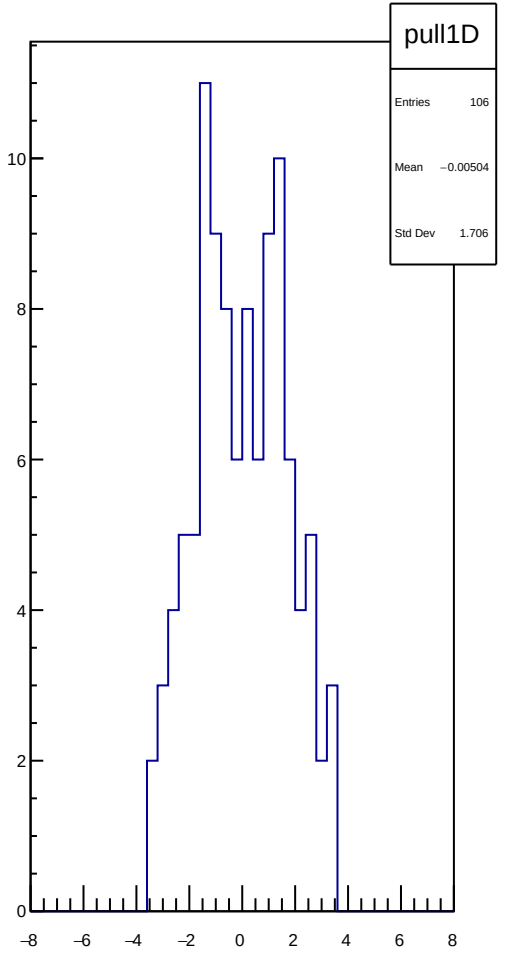

diff_bpm0l04Y_rms vs run
χ² / ndf 1076 / 105
p0 1041 ± 0.7324
1160
1140
1120
1100
1080
1060
1040
1020
1000
980

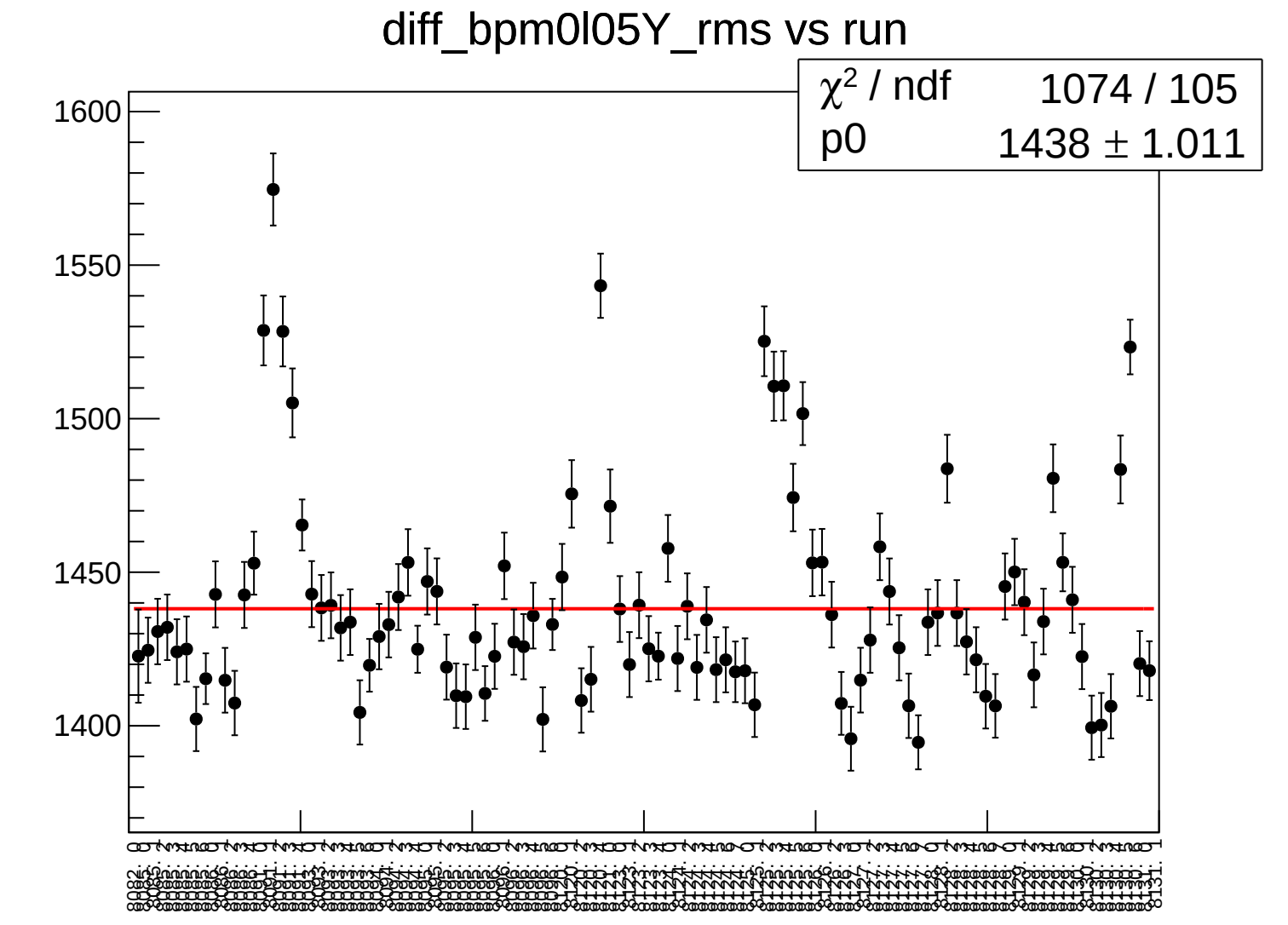

diff_bpm0l05X_mean vs run
χ² / ndf 105.2 / 105
p0 4.975 ± 4.724
pull
Entries 106
Mean −723.9
Std Dev 0

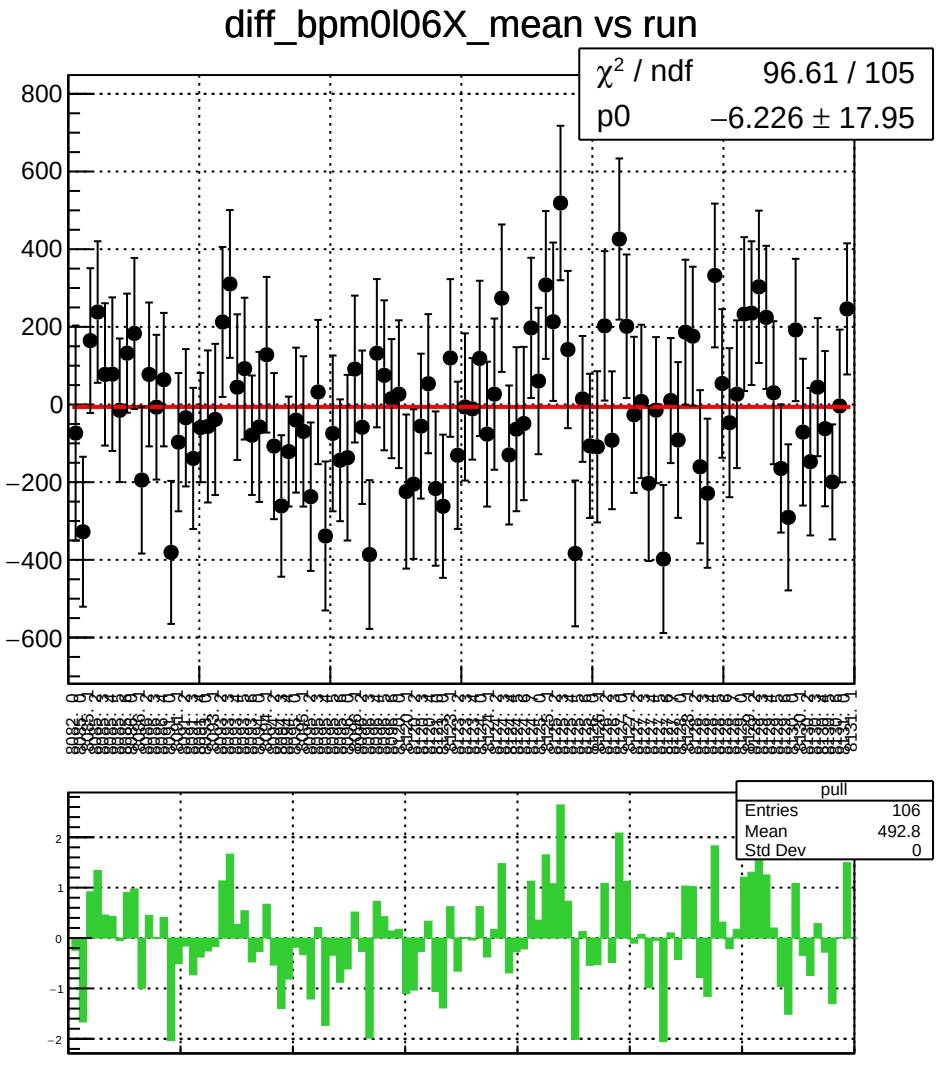

pull1D
Entries 106
Mean 0.004644
Std Dev 0.9964

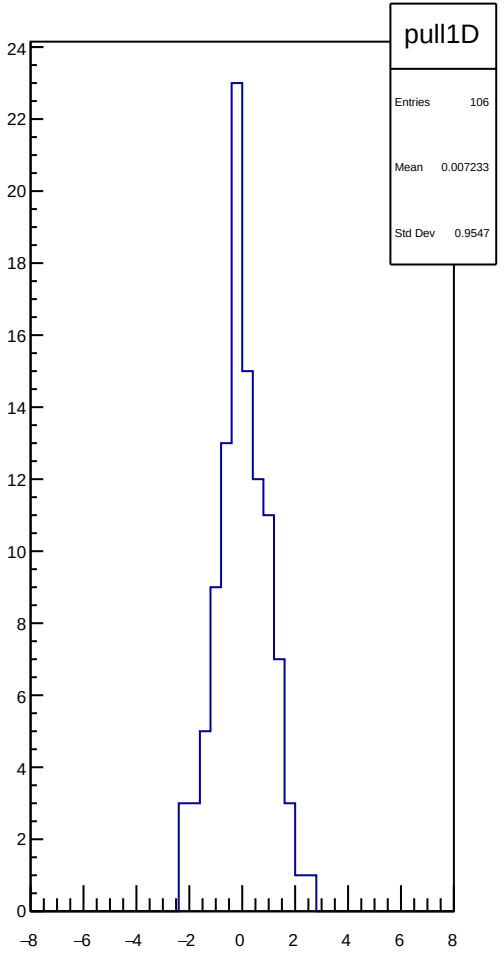

diff_bpm0l05X_rms vs run
χ² / ndf 4.373e+04 / 105
p0 4700 ± 3.34
6500
6000
5500
5000
4500
4000

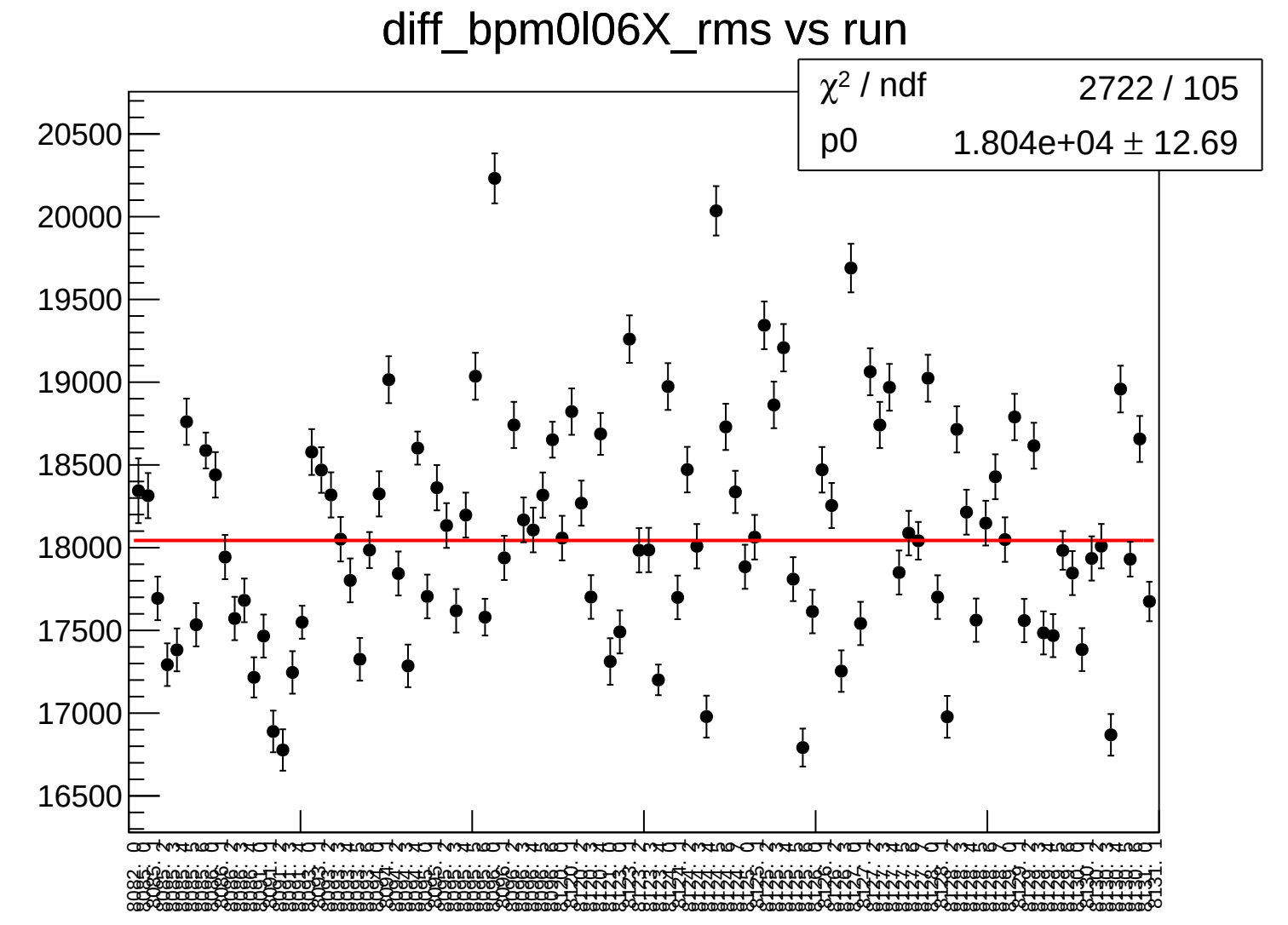

diff_bpm0l05Y_mean vs run
χ² / ndf 308.5 / 105
p0 31.17 ± 1.43
pull
Entries 106
Mean −5050
Std Dev 0

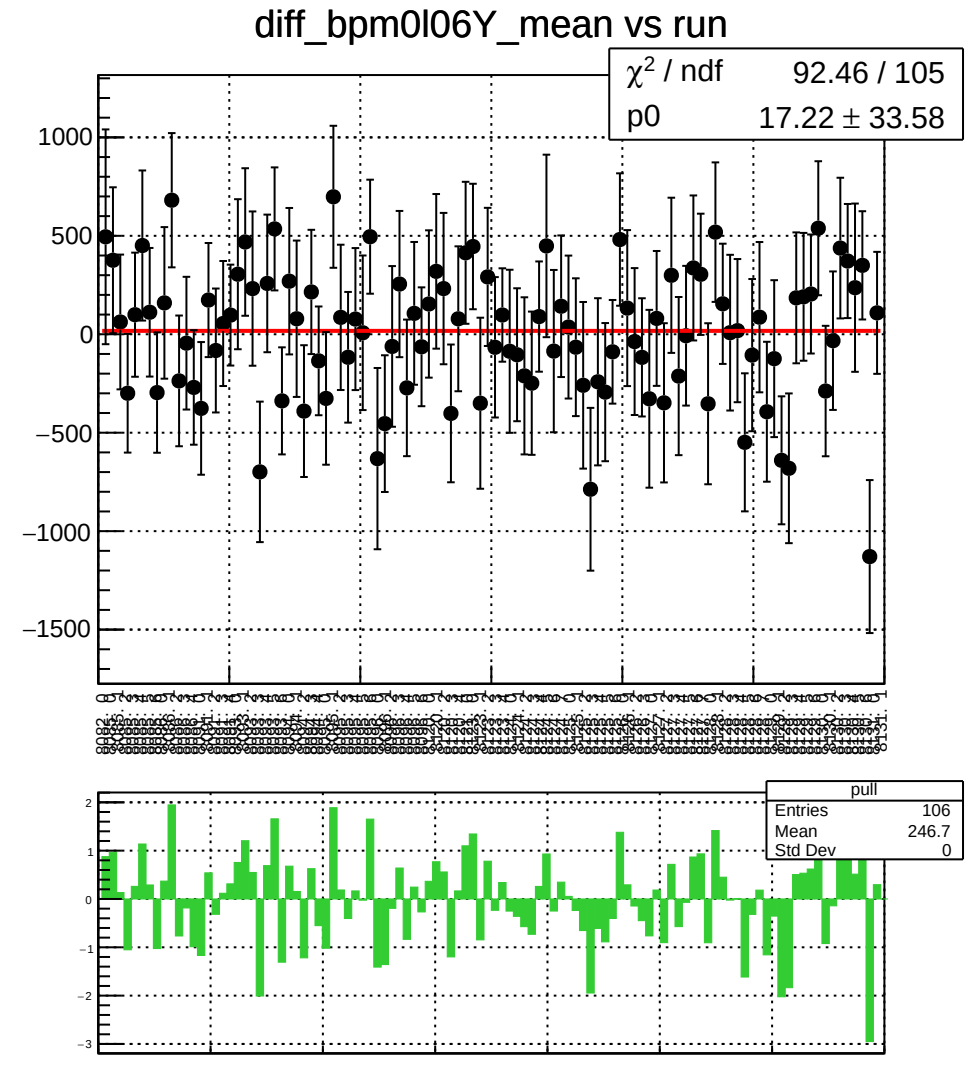

pull1D
Entries 106
Mean −0.00504
Std Dev 1.706

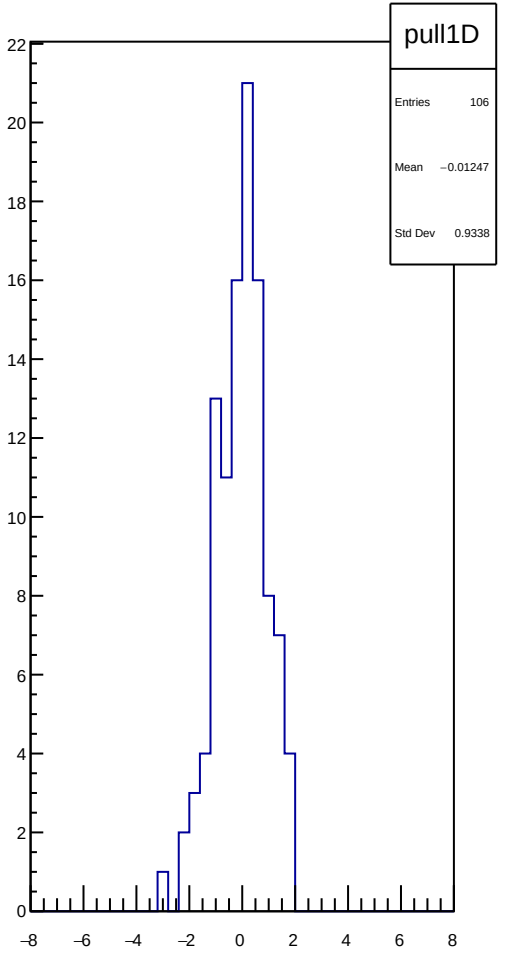

diff_bpm0l05Y_rms vs run
χ² / ndf 1074 / 105
p0 1438 ± 1.011
1600
1550
1500
1450
1400

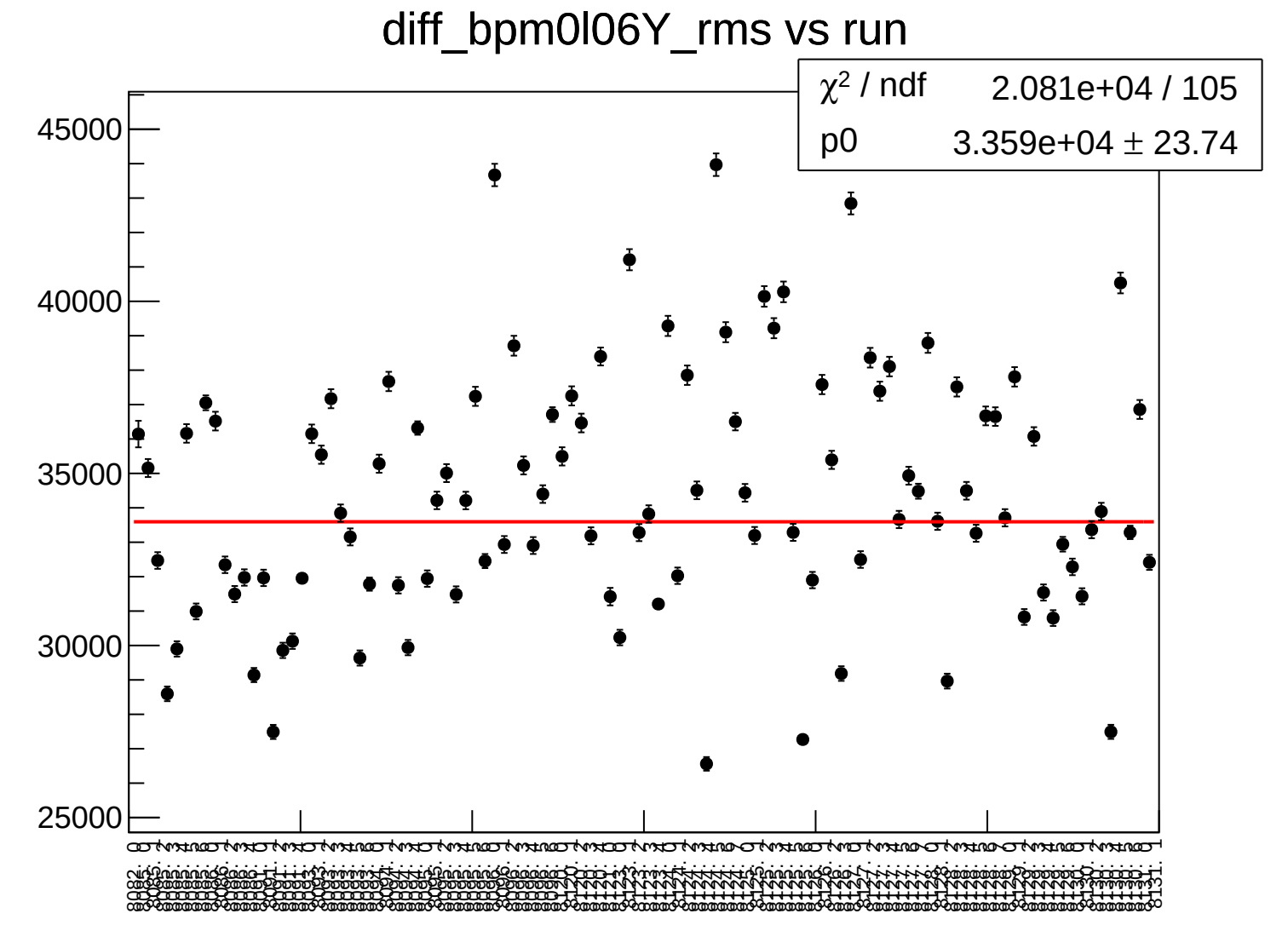

diff_bpm0l06X_mean vs run
χ² / ndf 96.61 / 105
p0 −6.226 ± 17.95
pull
Entries 106
Mean 492.8
Std Dev 0

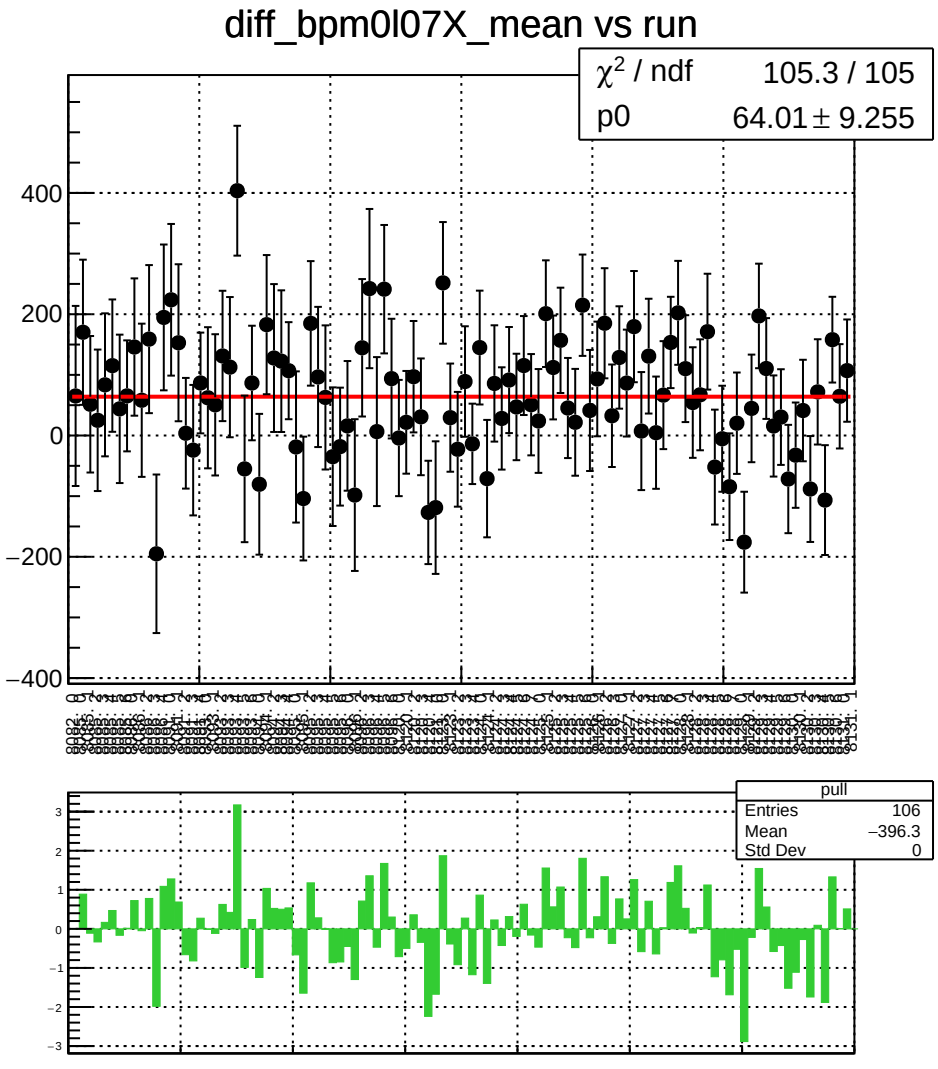

pull1D
Entries 106
Mean 0.007233
Std Dev 0.9547

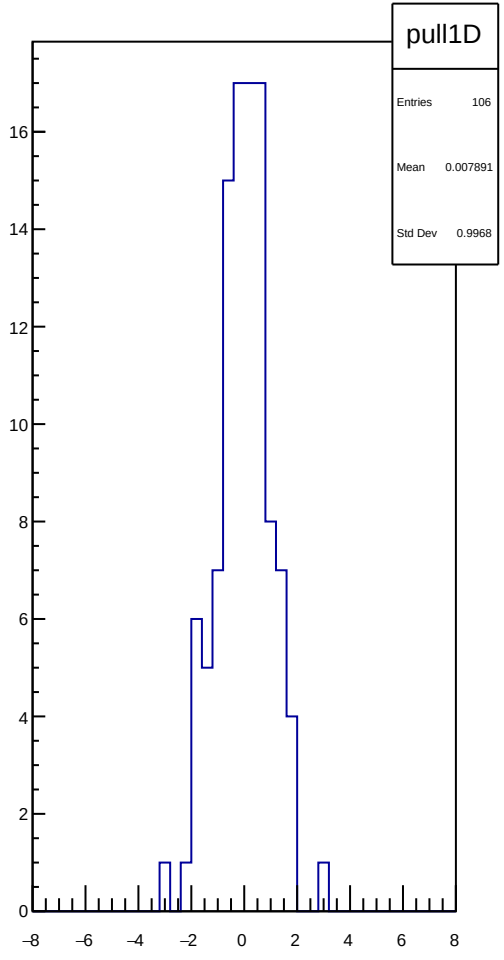

diff_bpm0l06X_rms vs run
χ² / ndf 2722 / 105
p0 1.804e+04 ± 12.69
20500
20000
19500
19000
18500
18000
17500
17000
16500

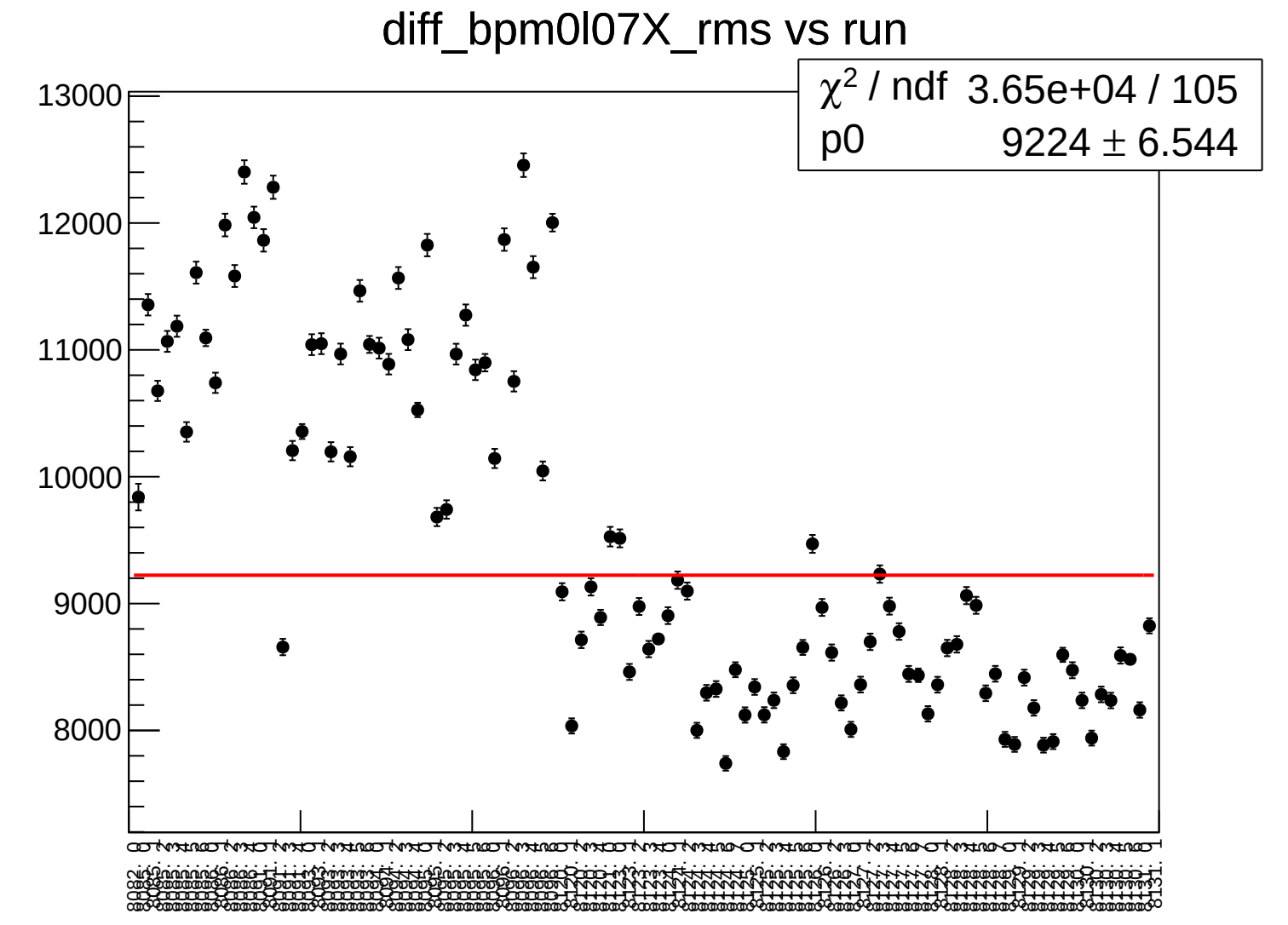

diff_bpm0l06Y_mean vs run
χ² / ndf 92.46 / 105
p0 17.22 ± 33.58
1000
500
0
−500
−1000
−1500
pull
Entries 106
Mean 246.7
Std Dev 0
2
1
0
−1
−2
−3

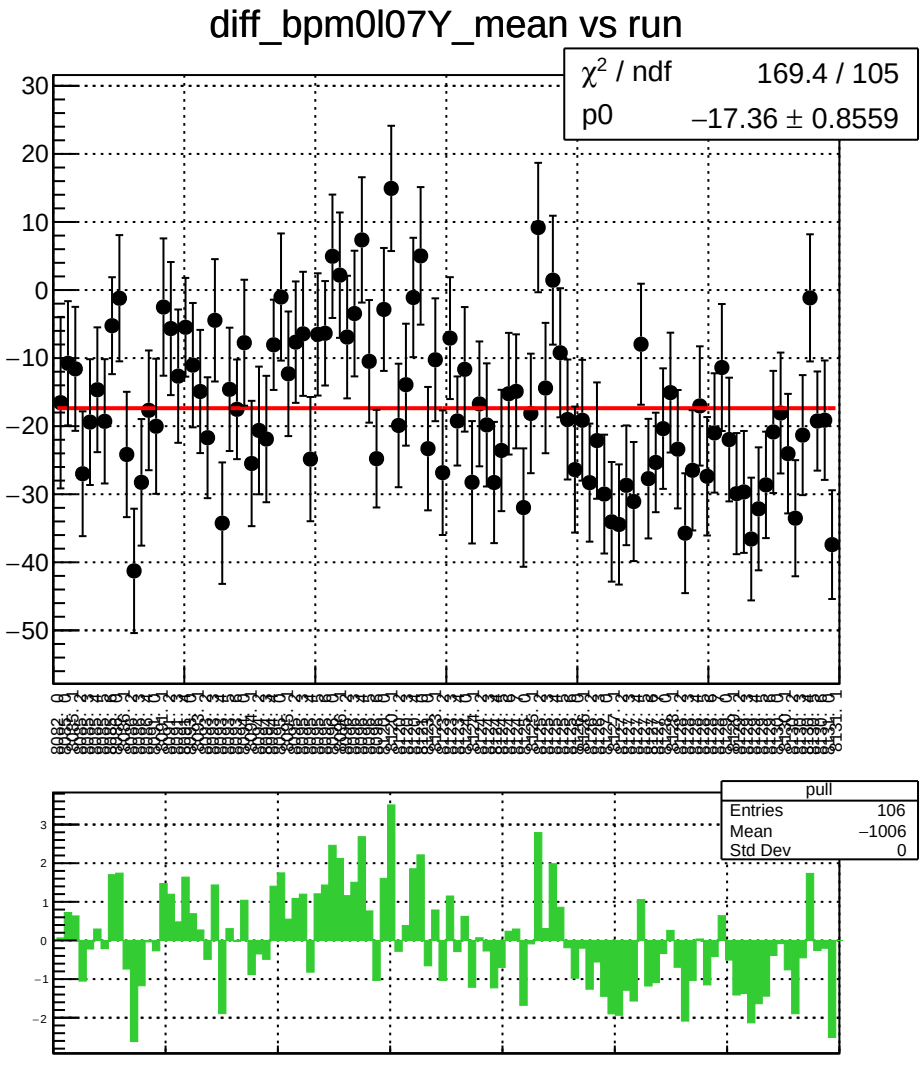

pull1D
Entries 106
Mean −0.01247
Std Dev 0.9338
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

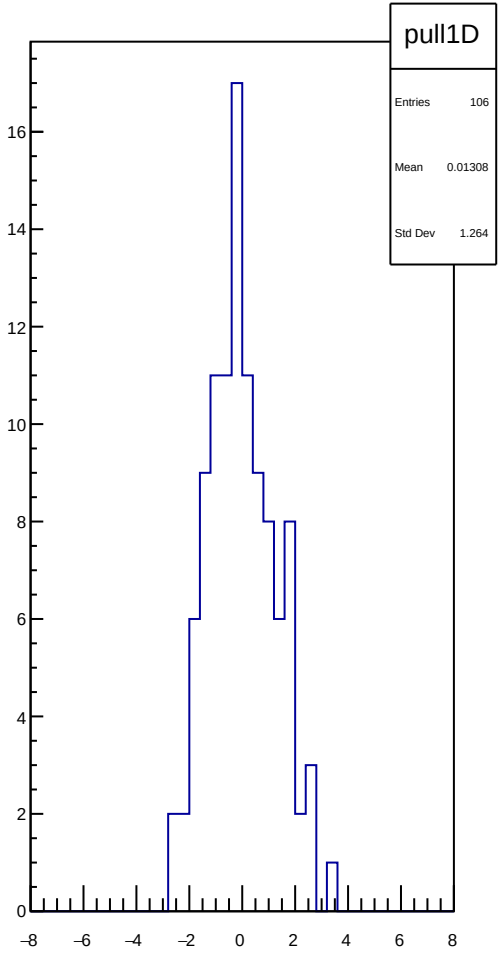

diff_bpm0l06Y_rms vs run
χ² / ndf 2.081e+04 / 105
p0 3.359e+04 ± 23.74
45000
40000
35000
30000
25000

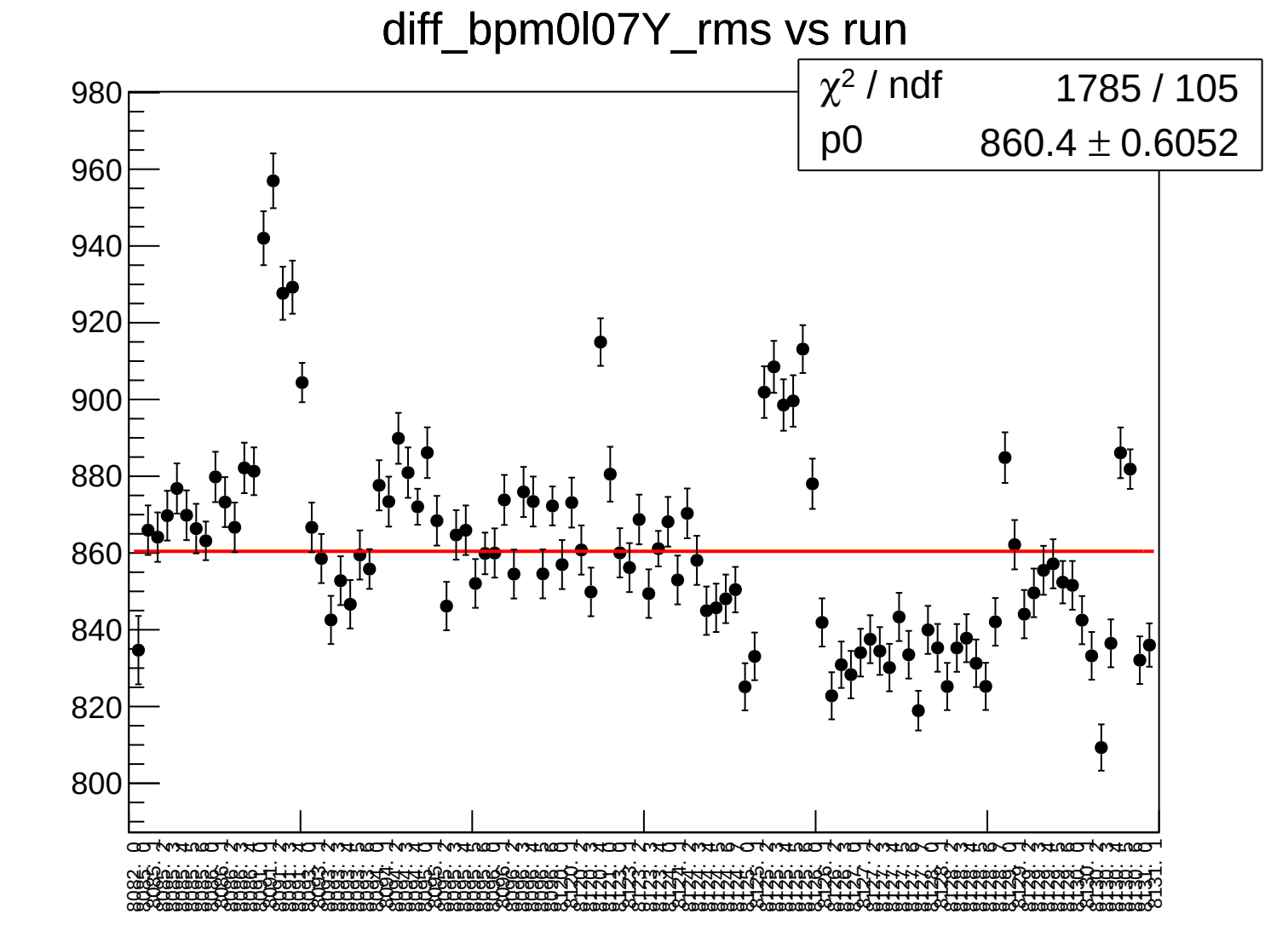

diff_bpm0l07X_mean vs run
χ² / ndf 105.3 / 105
p0 64.01 ± 9.255
400
200
0
−200
−400
pull
Entries 106
Mean −396.3
Std Dev 0
3
2
1
0
−1
−2
−3

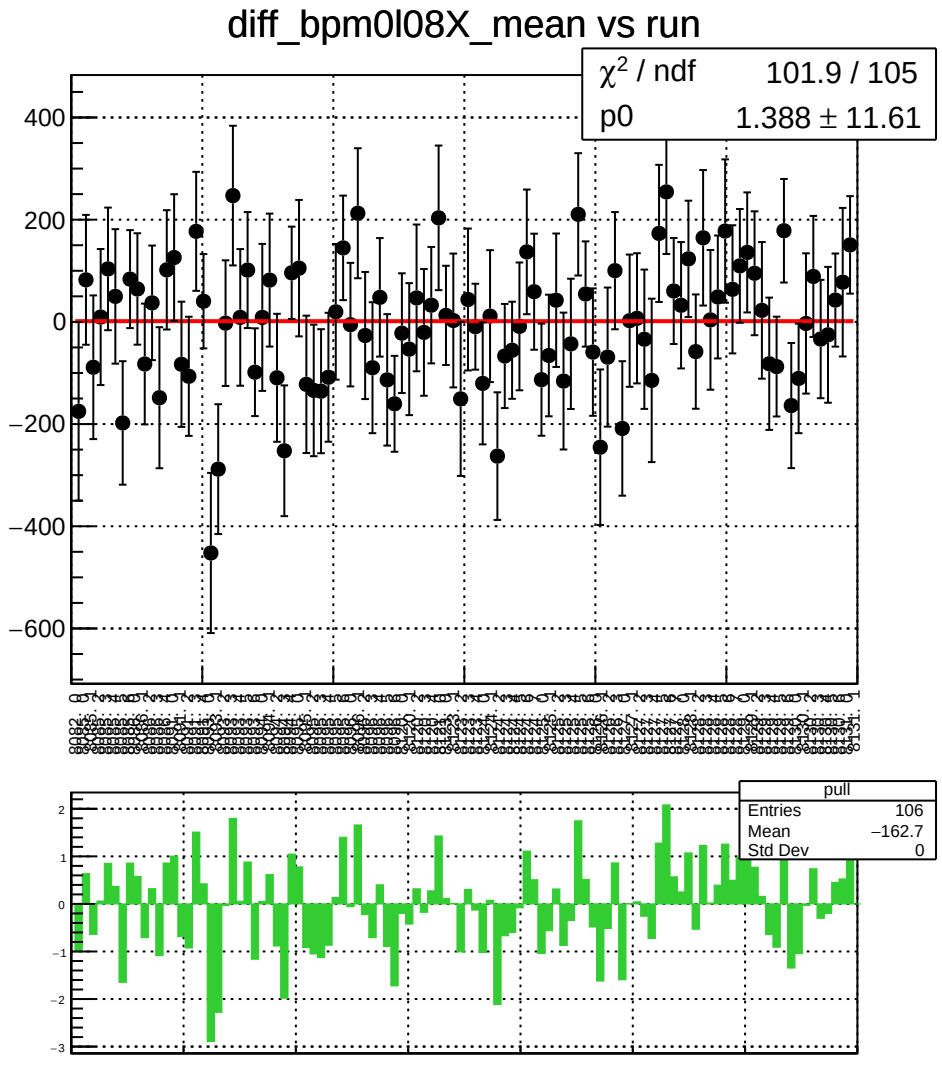

pull1D
Entries 106
Mean 0.007891
Std Dev 0.9968
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

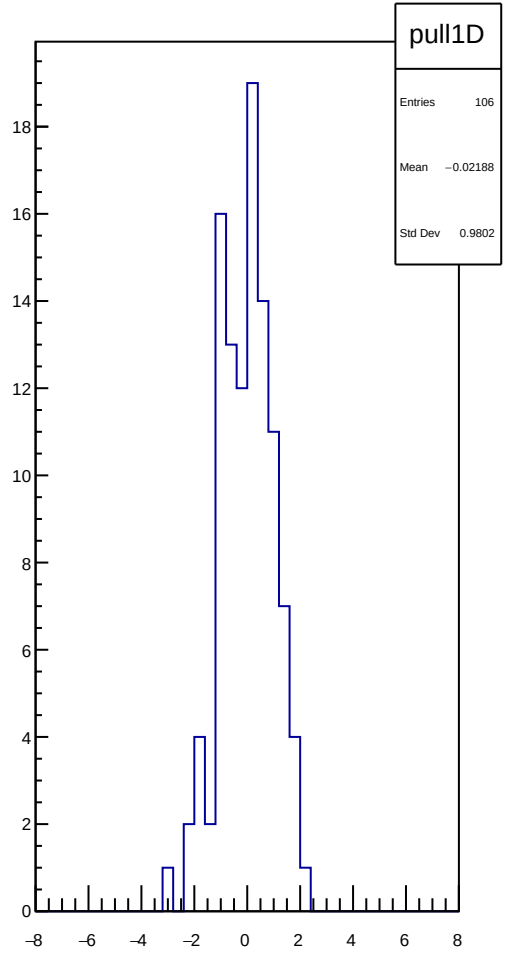

diff_bpm0l07X_rms vs run
χ² / ndf 3.65e+04 / 105
p0 9224 ± 6.544
13000
12000
11000
10000
9000
8000

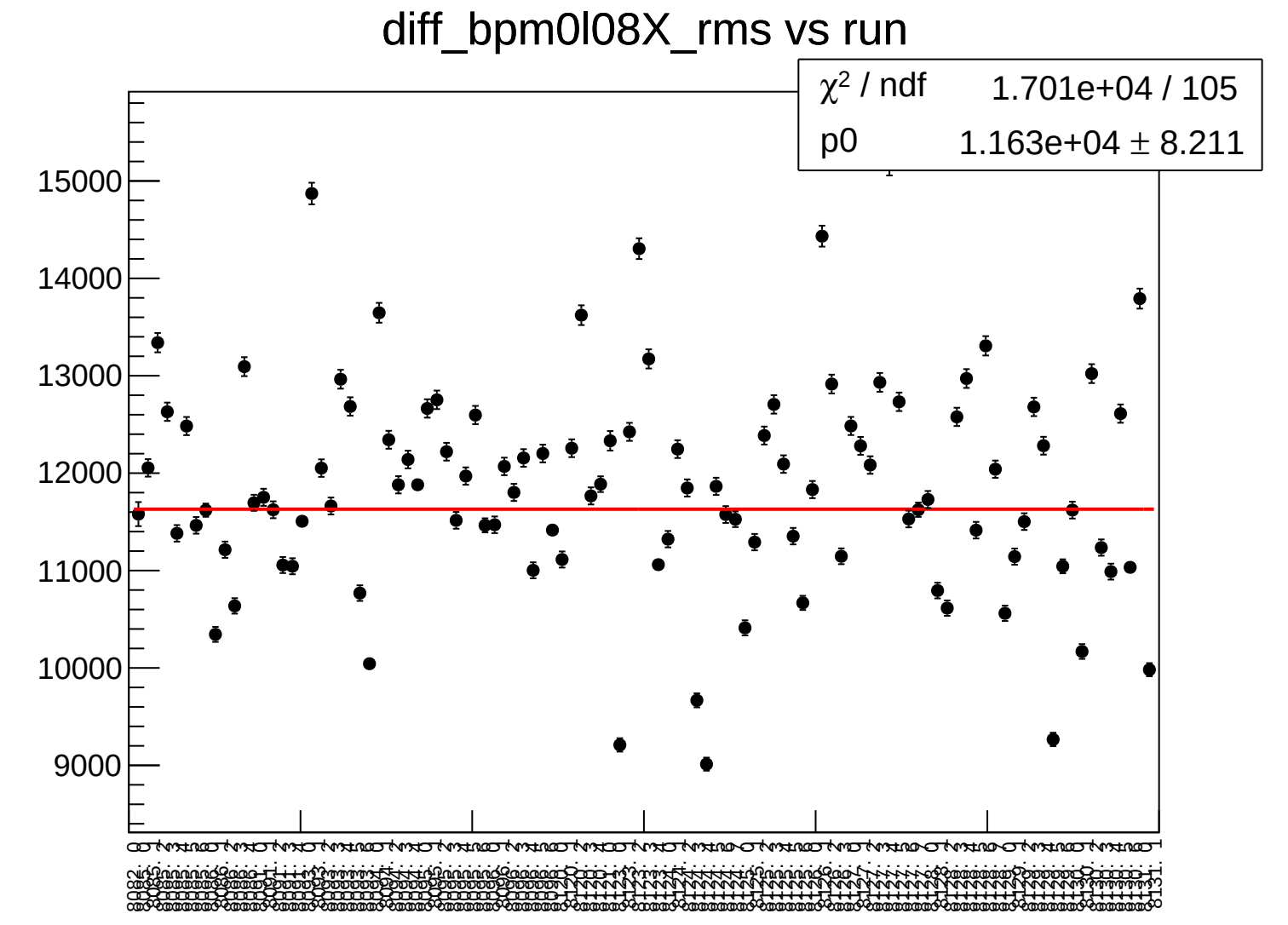

diff_bpm0l07Y_mean vs run
χ² / ndf 169.4 / 105
p0 −17.36 ± 0.8559
pull
Entries 106
Mean −1006
Std Dev 0

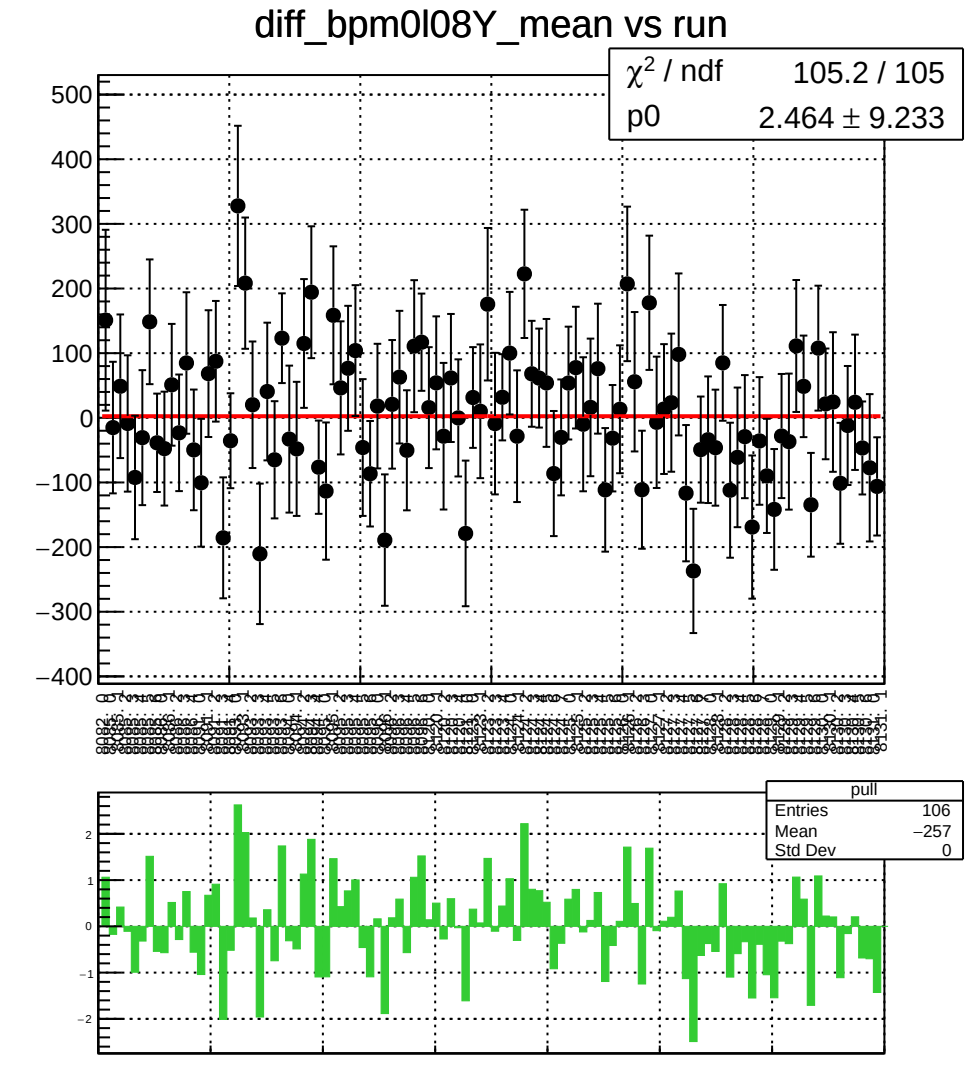

pull1D
Entries 106
Mean 0.01308
Std Dev 1.264

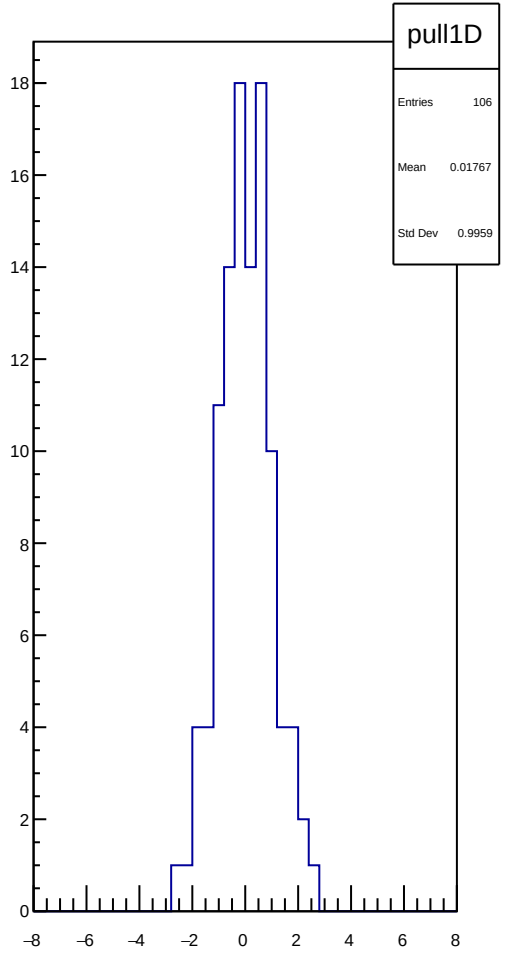

diff_bpm0l07Y_rms vs run
χ² / ndf 1785 / 105
p0 860.4 ± 0.6052
980
960
940
920
900
880
860
840
820
800

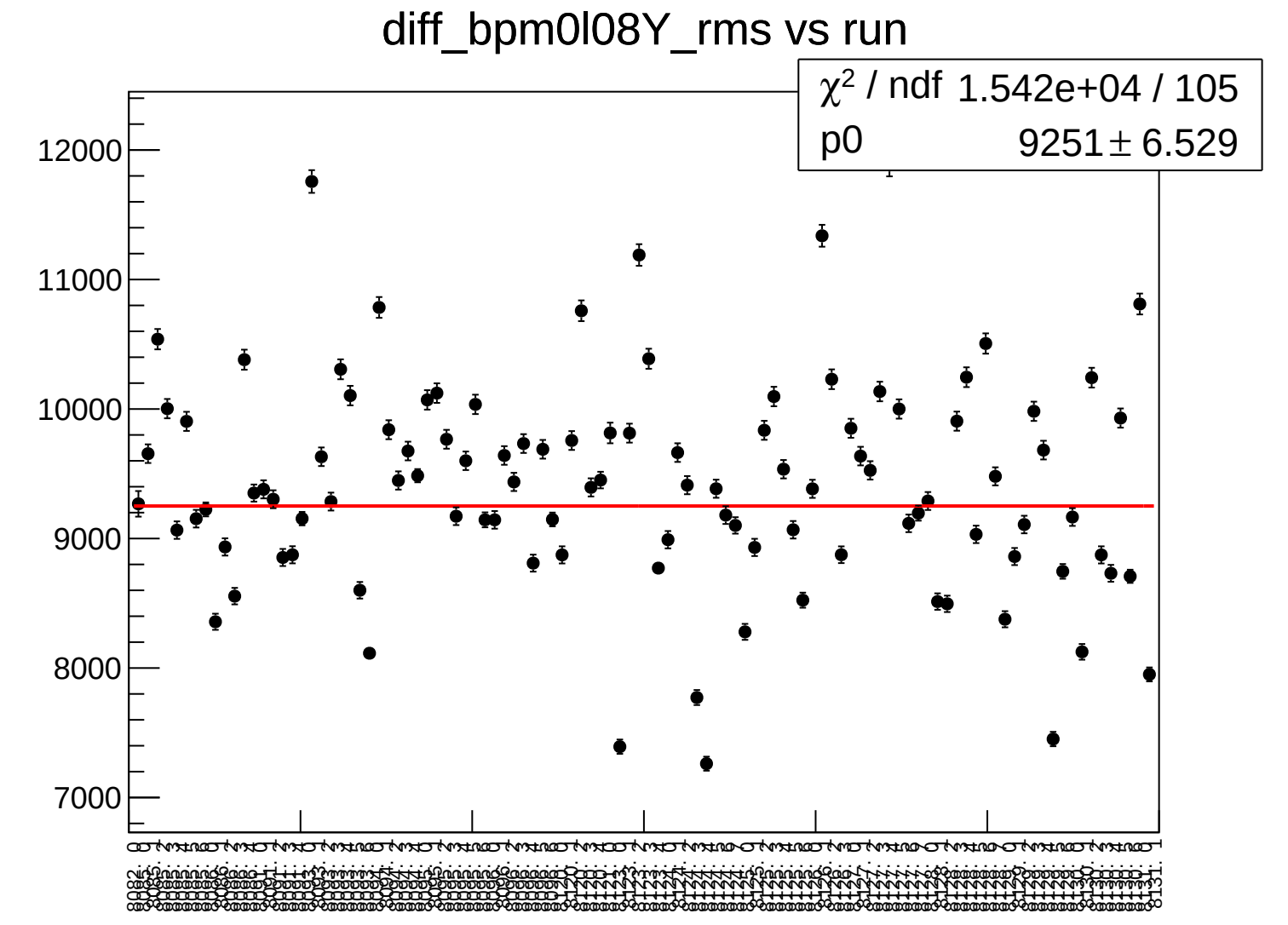

diff_bpm0l08X_mean vs run
$\chi^2$ / ndf 101.9 / 105
p0 1.388 ± 11.61
400
200
0
−200
−400
−600
pull
Entries 106
Mean −162.7
Std Dev 0
2
1
0
−1
−2
−3

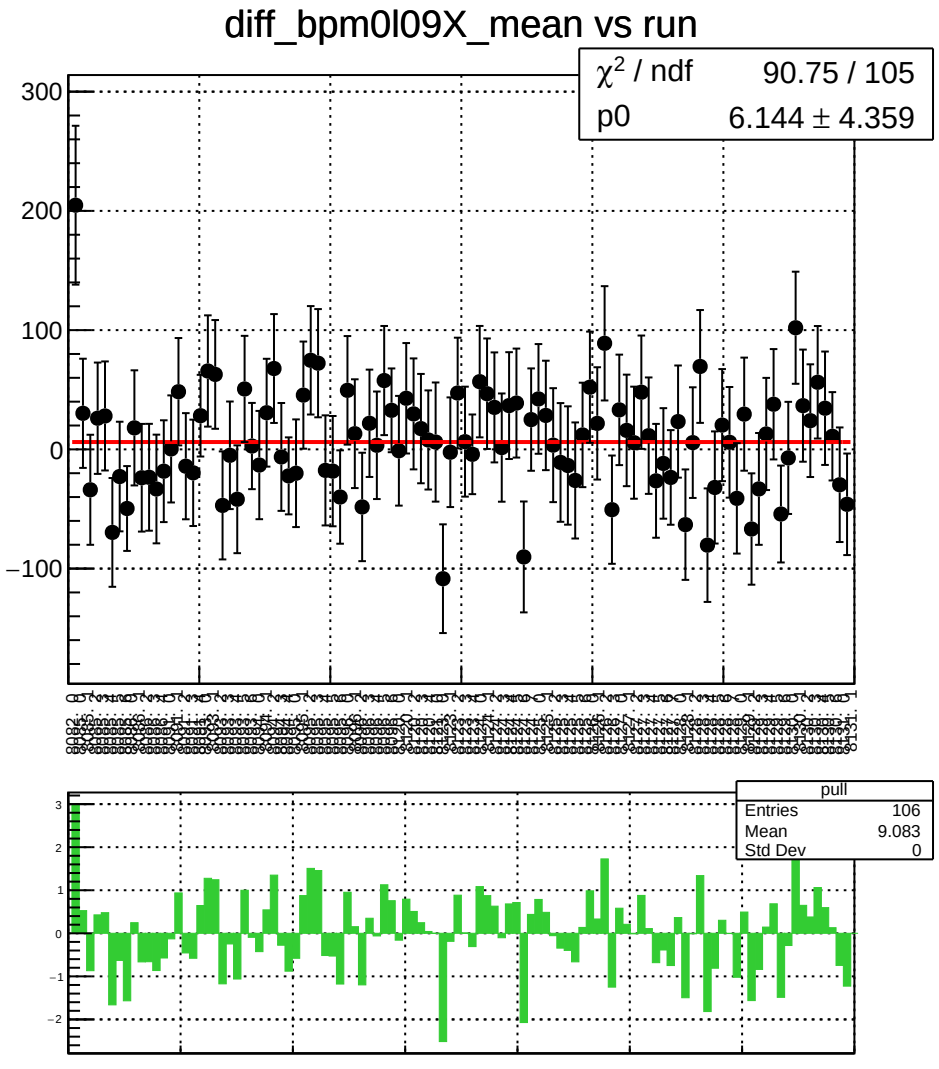

pull1D
Entries 106
Mean −0.02188
Std Dev 0.9802
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

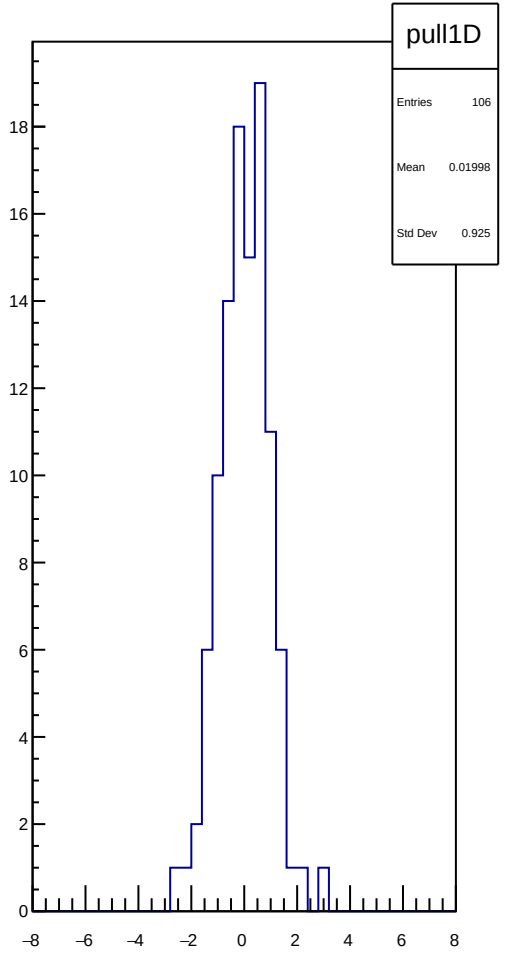

diff_bpm0l08X_rms vs run
χ² / ndf 1.701e+04 / 105
p0 1.163e+04 ± 8.211
15000
14000
13000
12000
11000
10000
9000

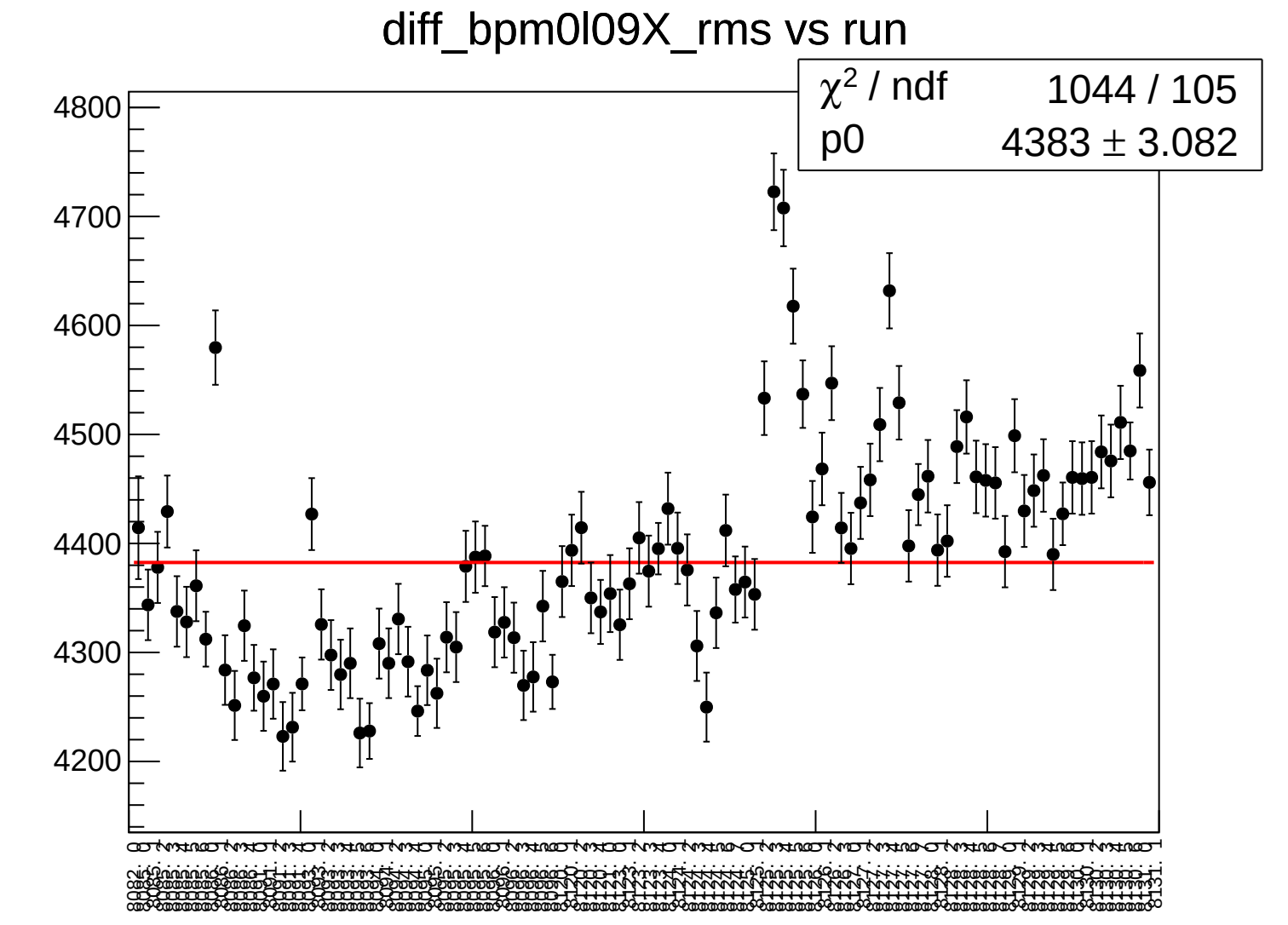

diff_bpm0l08Y_mean vs run
χ² / ndf 105.2 / 105
p0 2.464 ± 9.233
pull
Entries 106
Mean −257
Std Dev 0

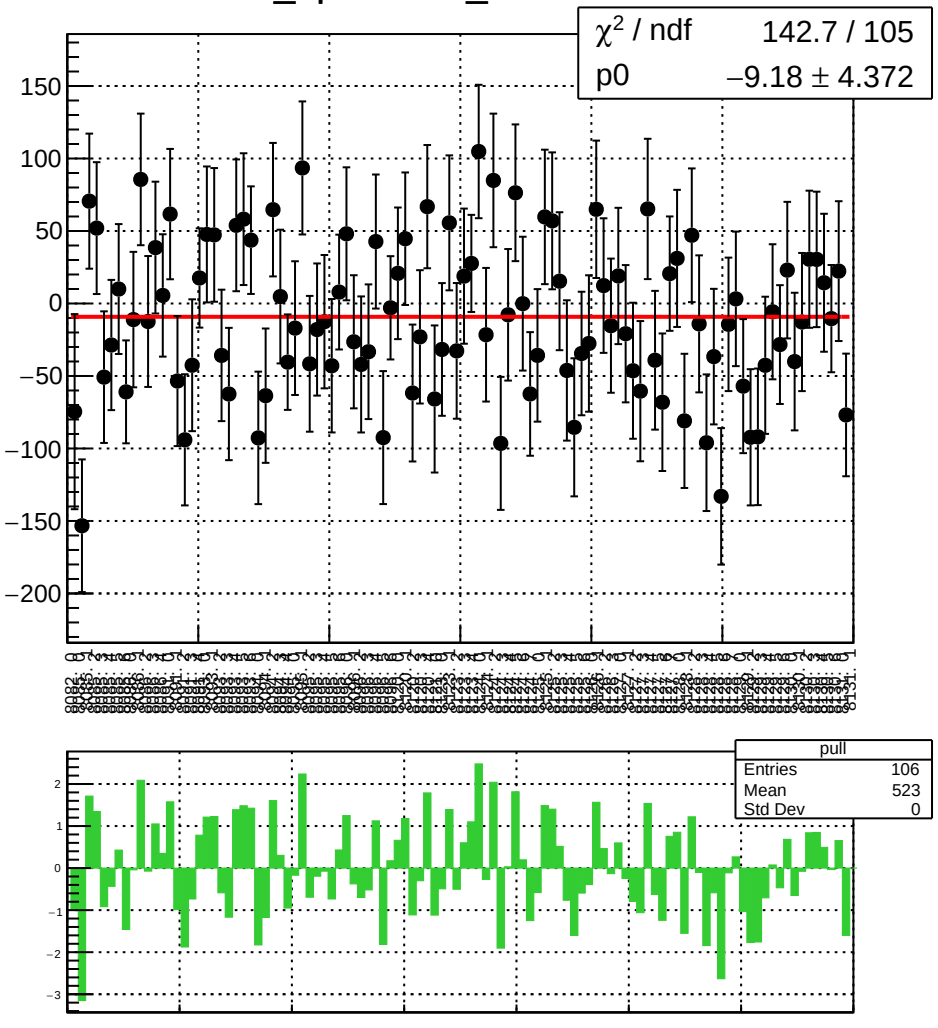

pull1D
Entries 106
Mean 0.01767
Std Dev 0.9959

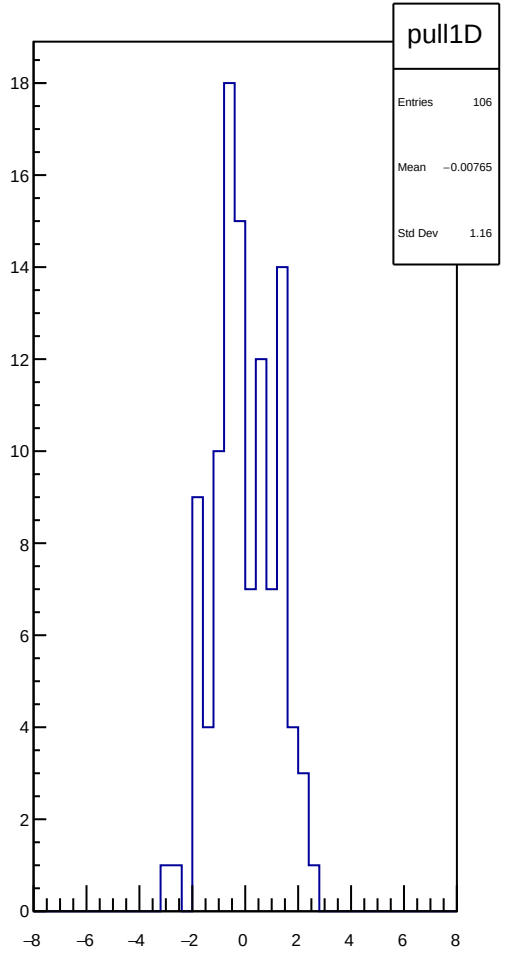

diff_bpm0l08Y_rms vs run
χ² / ndf 1.542e+04 / 105
p0 9251 ± 6.529
12000
11000
10000
9000
8000
7000

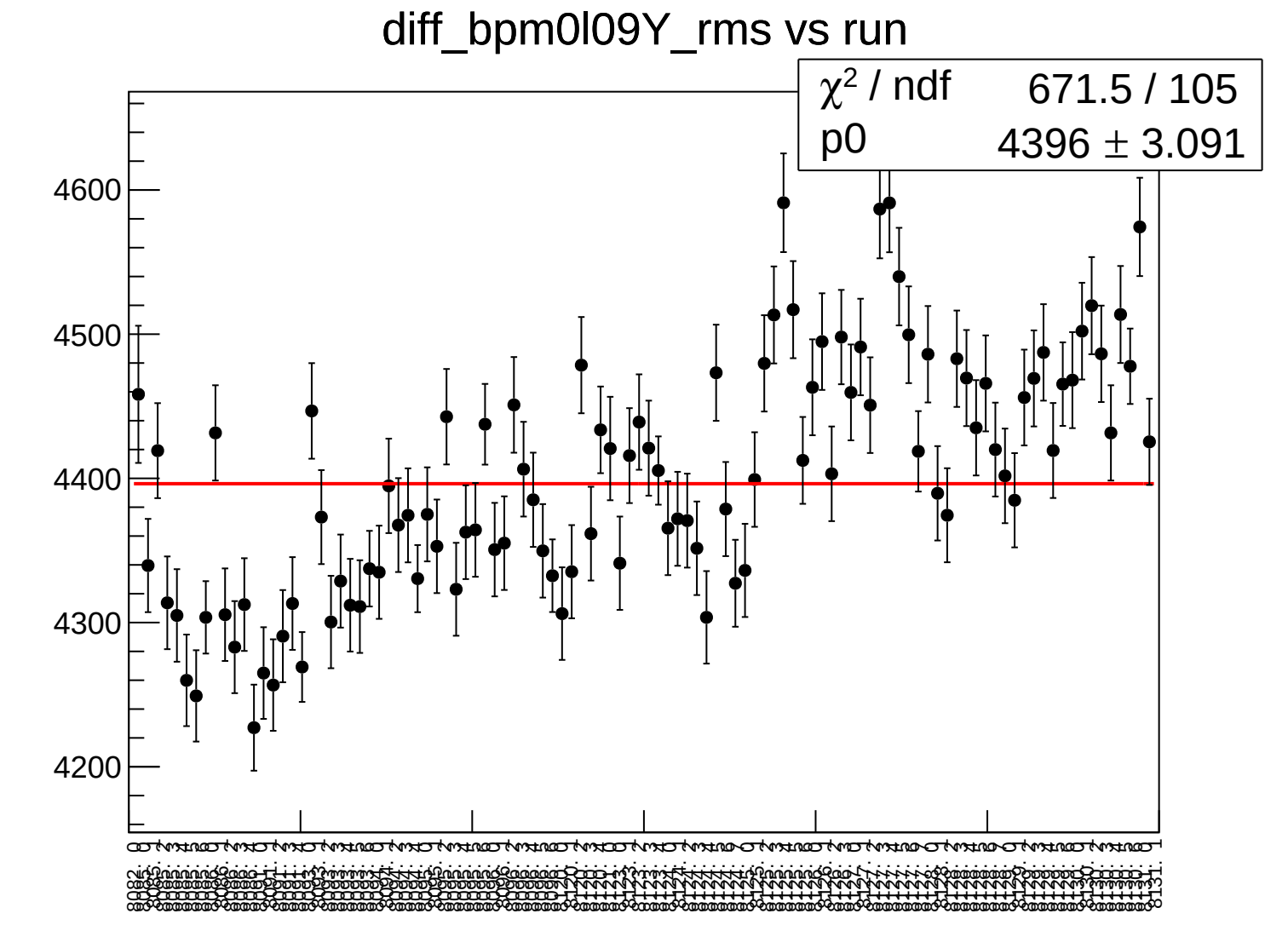

diff_bpm0l09X_mean vs run
χ² / ndf 90.75 / 105
p0 6.144 ± 4.359
300
200
100
0
−100
pull
Entries 106
Mean 9.083
Std Dev 0
3
2
1
0
−1
−2

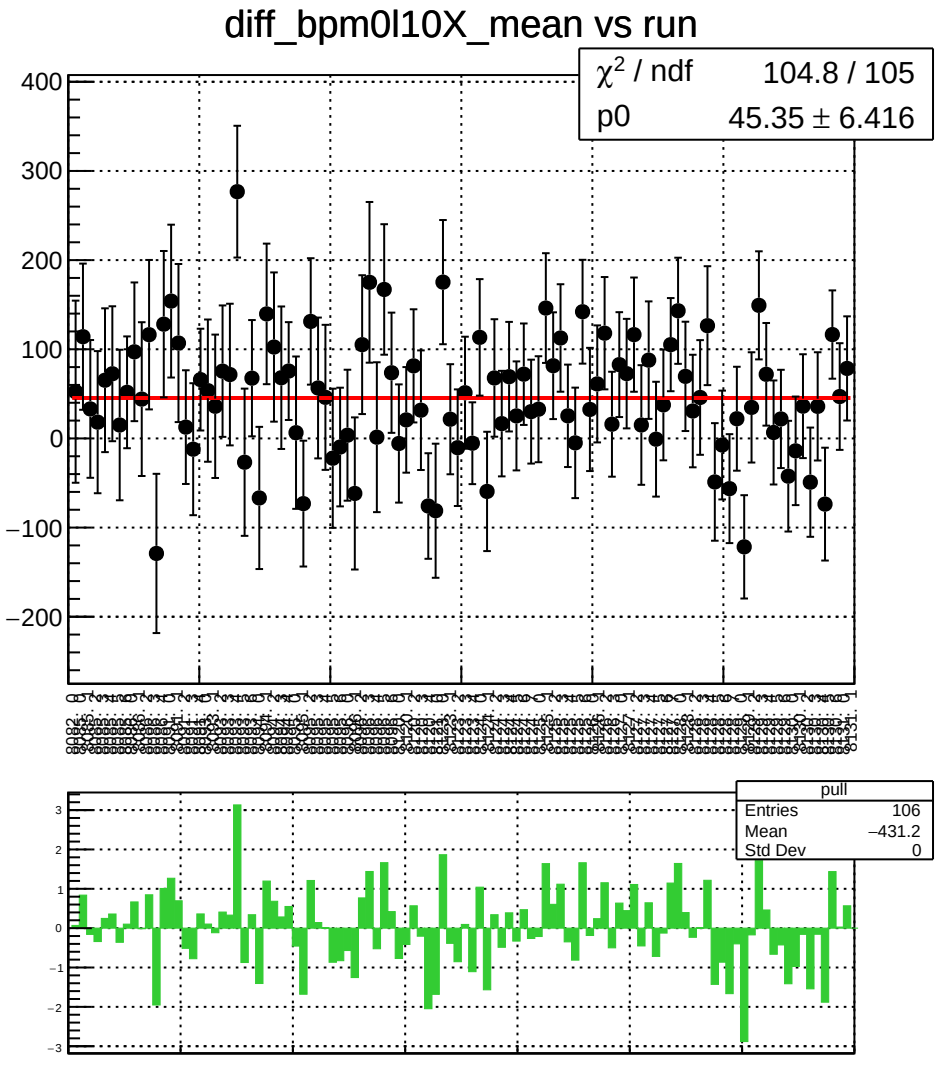

pull1D
Entries 106
Mean 0.01998
Std Dev 0.925
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

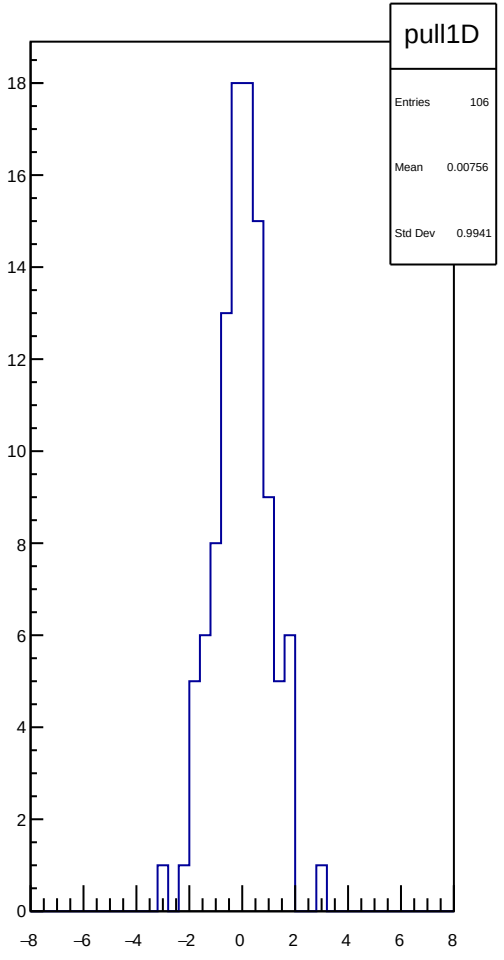

diff_bpm0l09X_rms vs run
χ² / ndf 1044 / 105
p0 4383 ± 3.082
4800
4700
4600
4500
4400
4300
4200

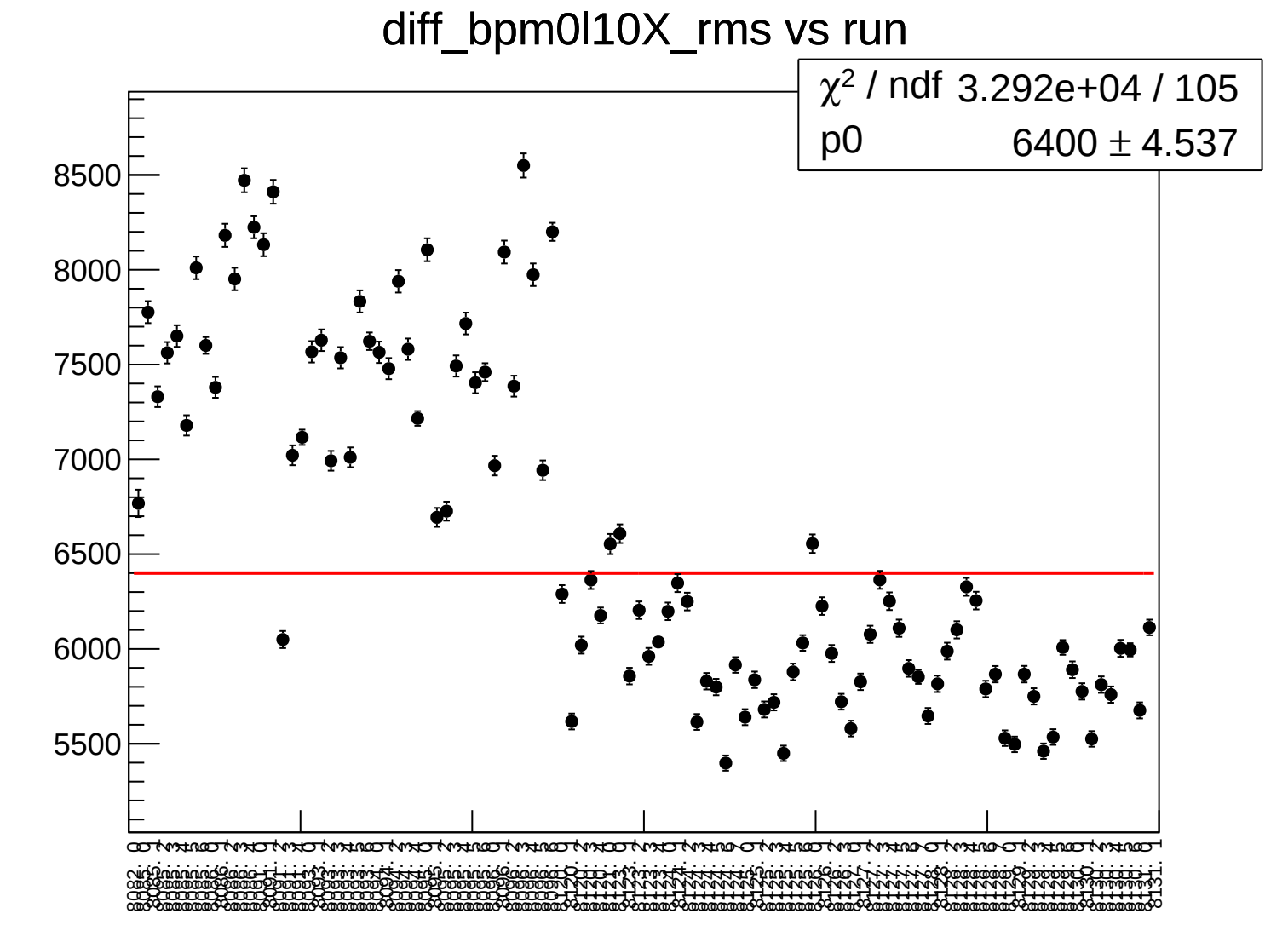

diff_bpm0l09Y_mean vs run
χ² / ndf 142.7 / 105
p0 −9.18 ± 4.372
150
100
50
0
−50
−100
−150
−200
pull
Entries 106
Mean 523
Std Dev 0
2
1
0
−1
−2
−3

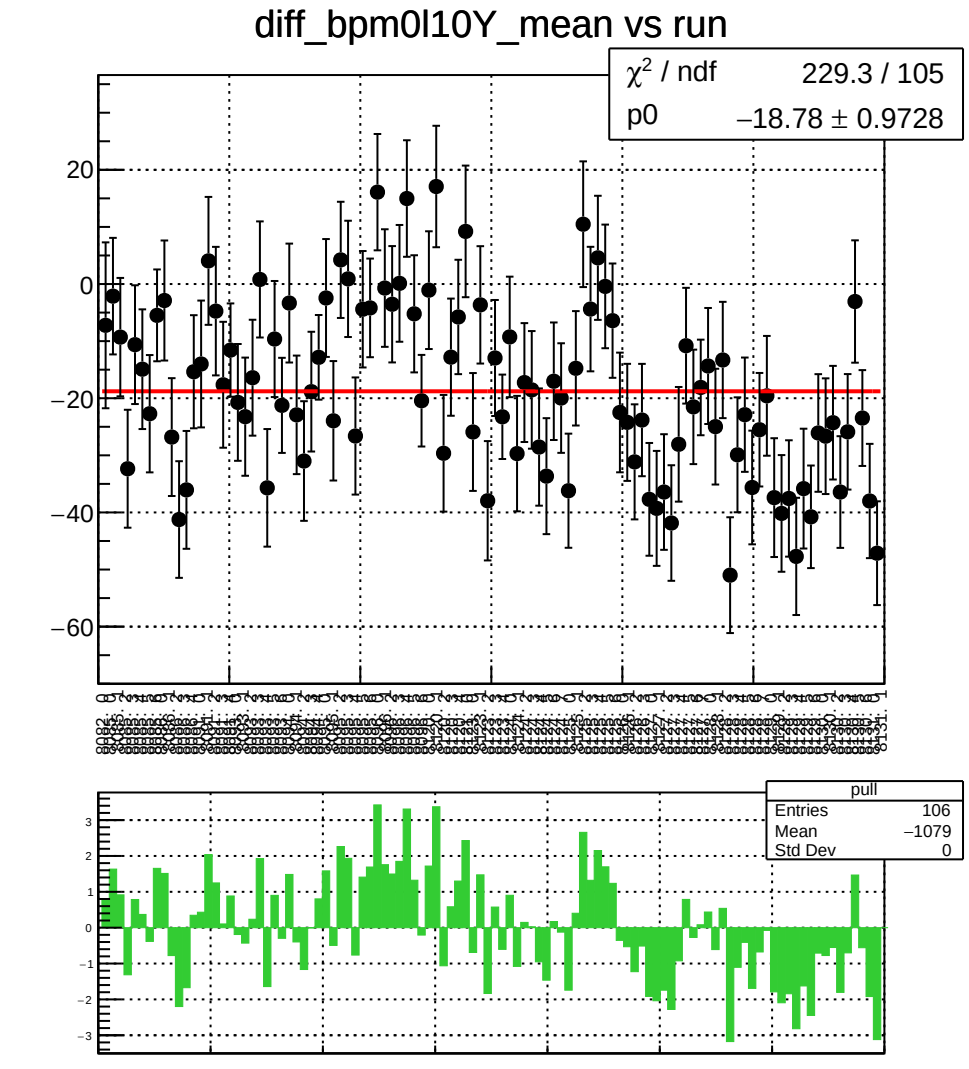

pull1D
Entries 106
Mean −0.00765
Std Dev 1.16
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

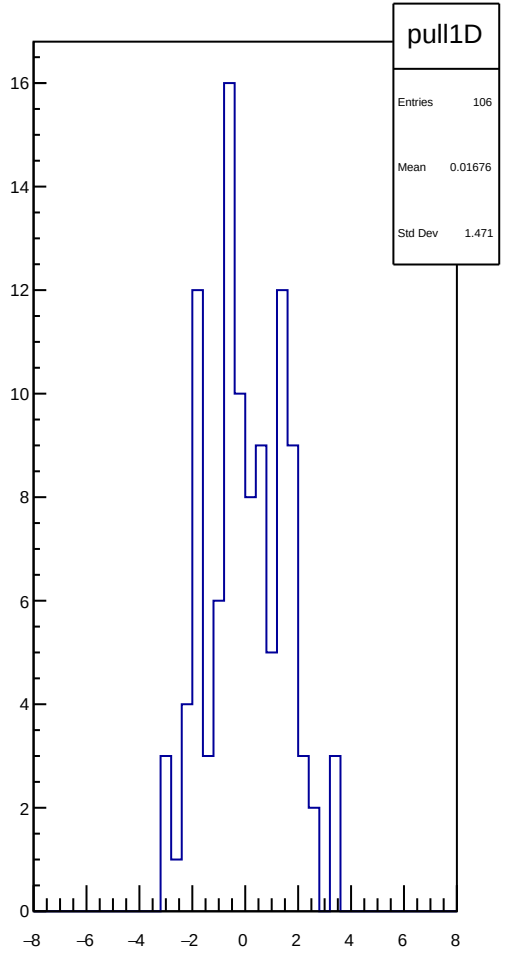

diff_bpm0l09Y_rms vs run
χ² / ndf 671.5 / 105
p0 4396 ± 3.091
4600
4500
4400
4300
4200

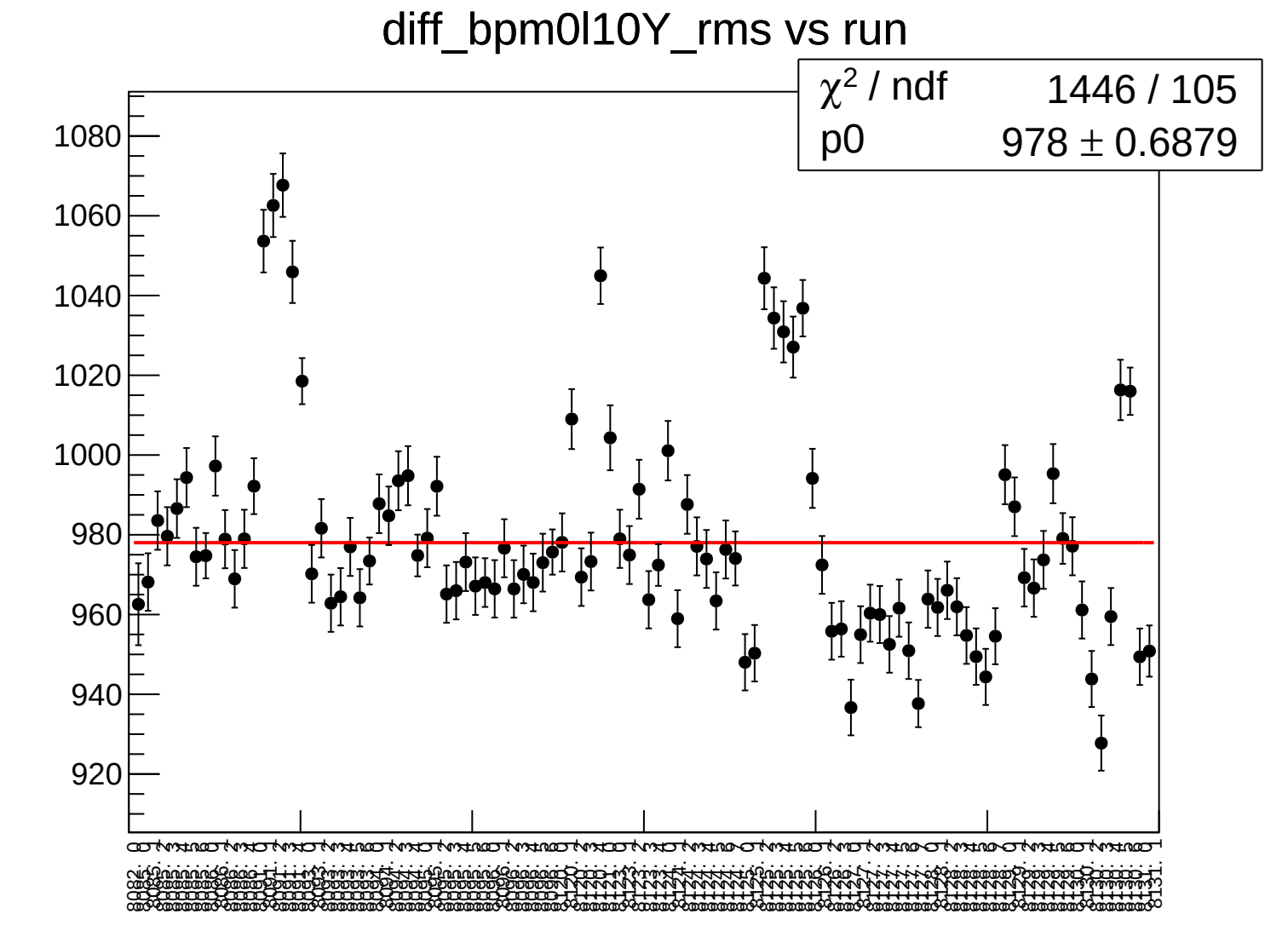

diff_bpm0l10X_mean vs run
χ² / ndf 104.8 / 105
p0 45.35 ± 6.416
pull
Entries 106
Mean −431.2
Std Dev 0

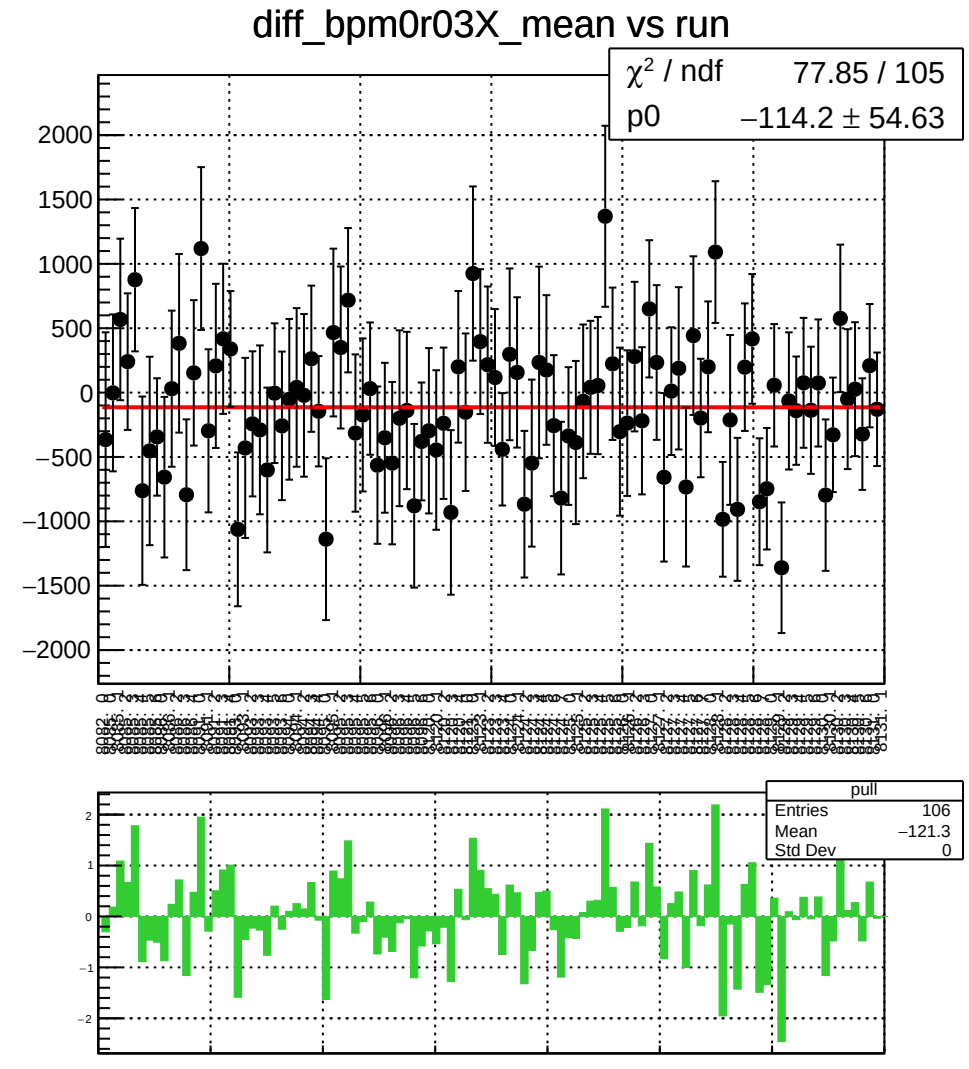

pull1D
Entries 106
Mean 0.00756
Std Dev 0.9941

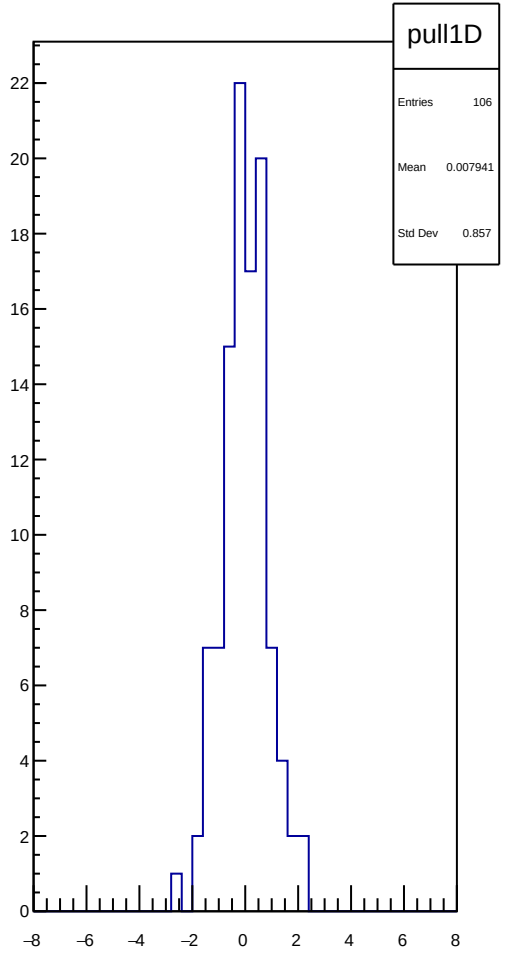

diff_bpm0l10X_rms vs run
χ² / ndf 3.292e+04 / 105
p0 6400 ± 4.537
8500
8000
7500
7000
6500
6000
5500

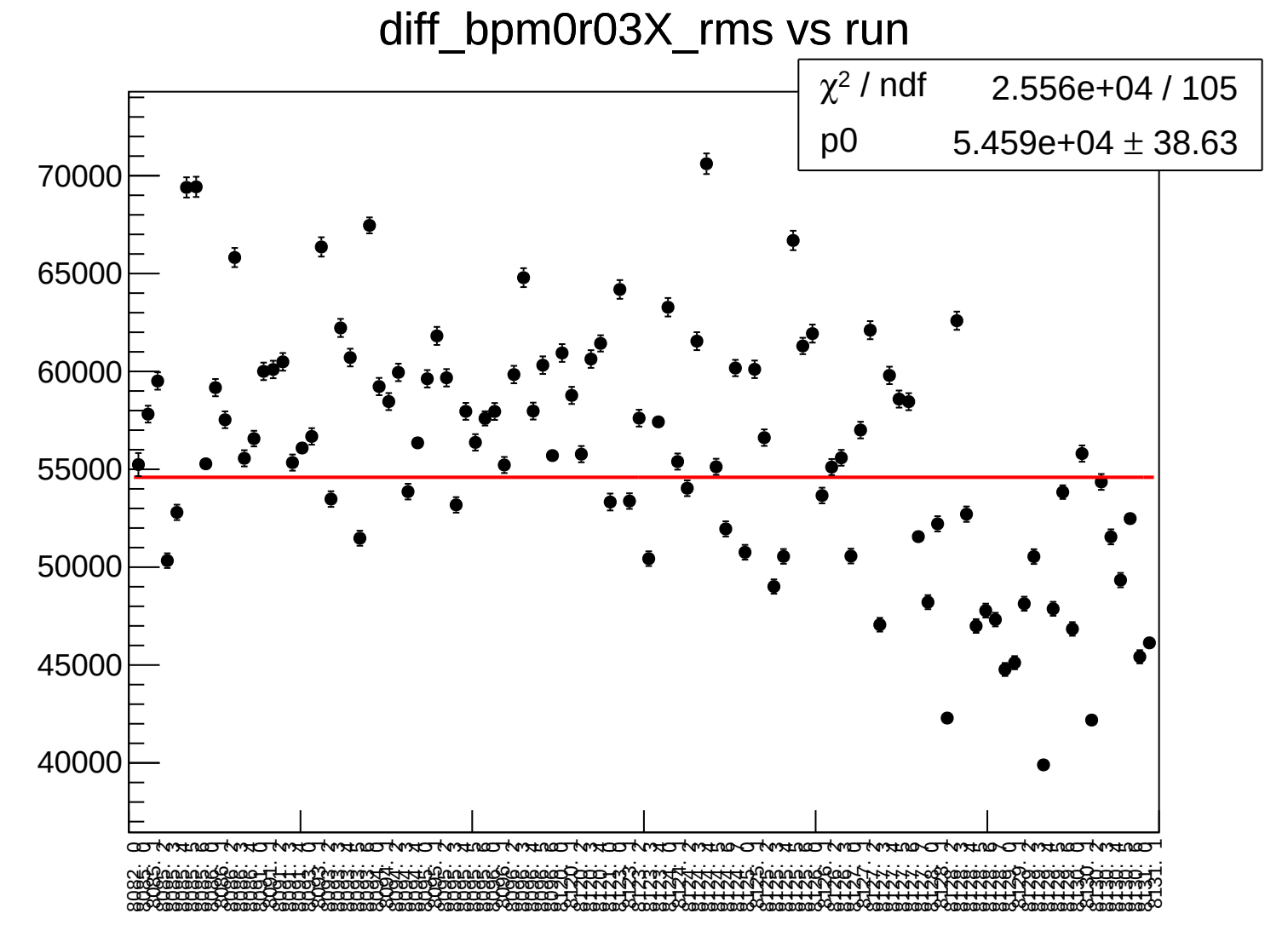

diff_bpm0l10Y_mean vs run
χ² / ndf 229.3 / 105
p0 −18.78 ± 0.9728
20
0
−20
−40
−60
pull
Entries 106
Mean −1079
Std Dev 0
3
2
1
0
−1
−2
−3

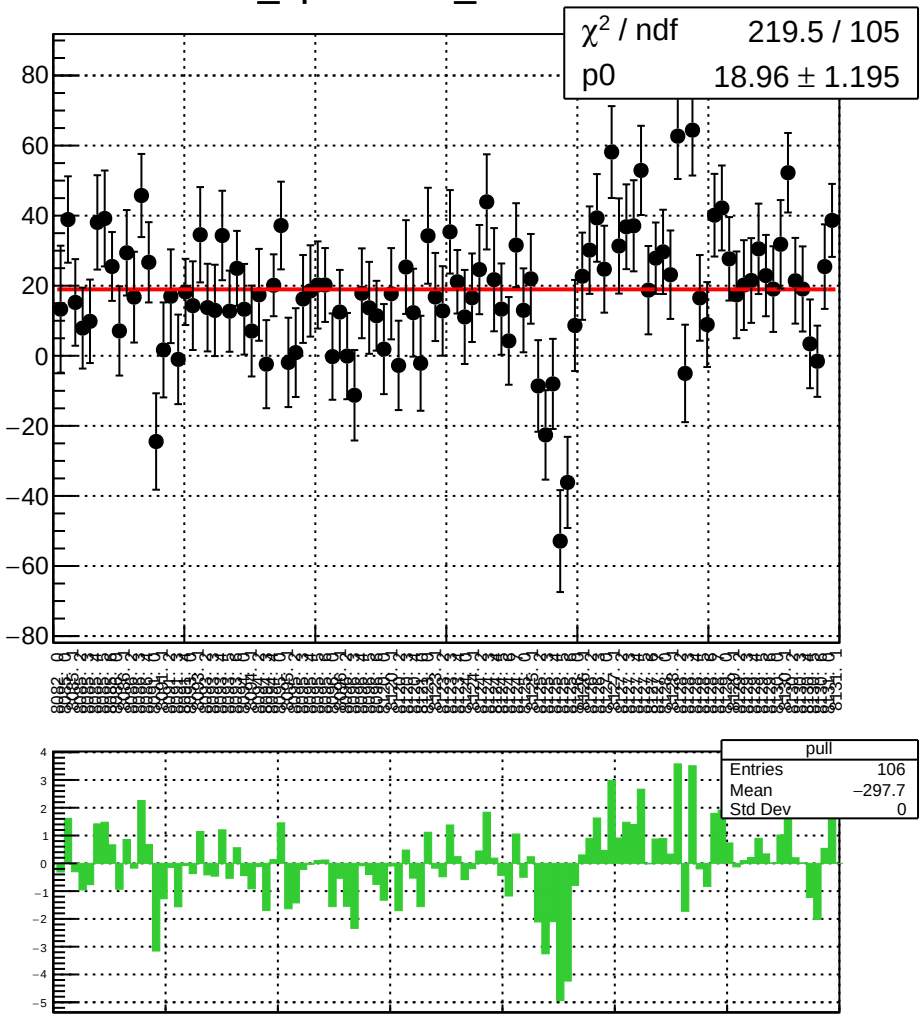

pull1D
Entries 106
Mean 0.01676
Std Dev 1.471
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

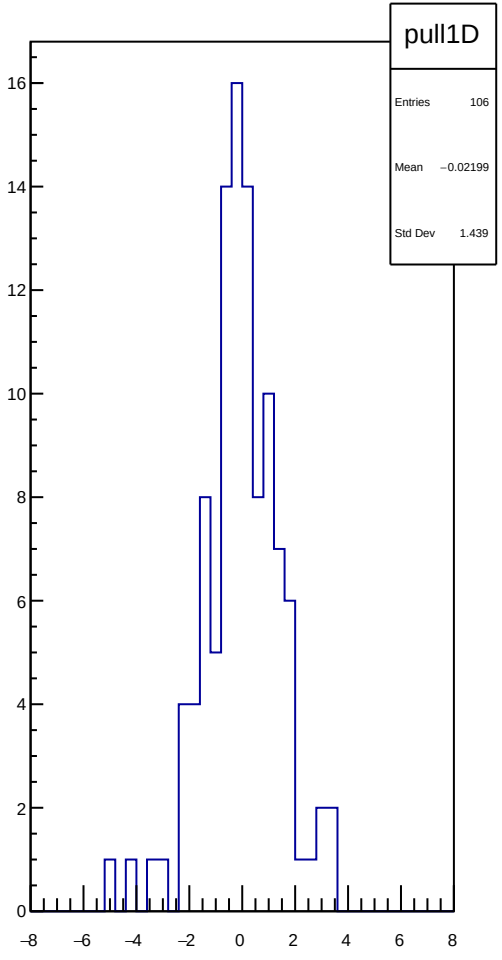

diff_bpm0l10Y_rms vs run
χ² / ndf 1446 / 105
p0 978 ± 0.6879
1080
1060
1040
1020
1000
980
960
940
920

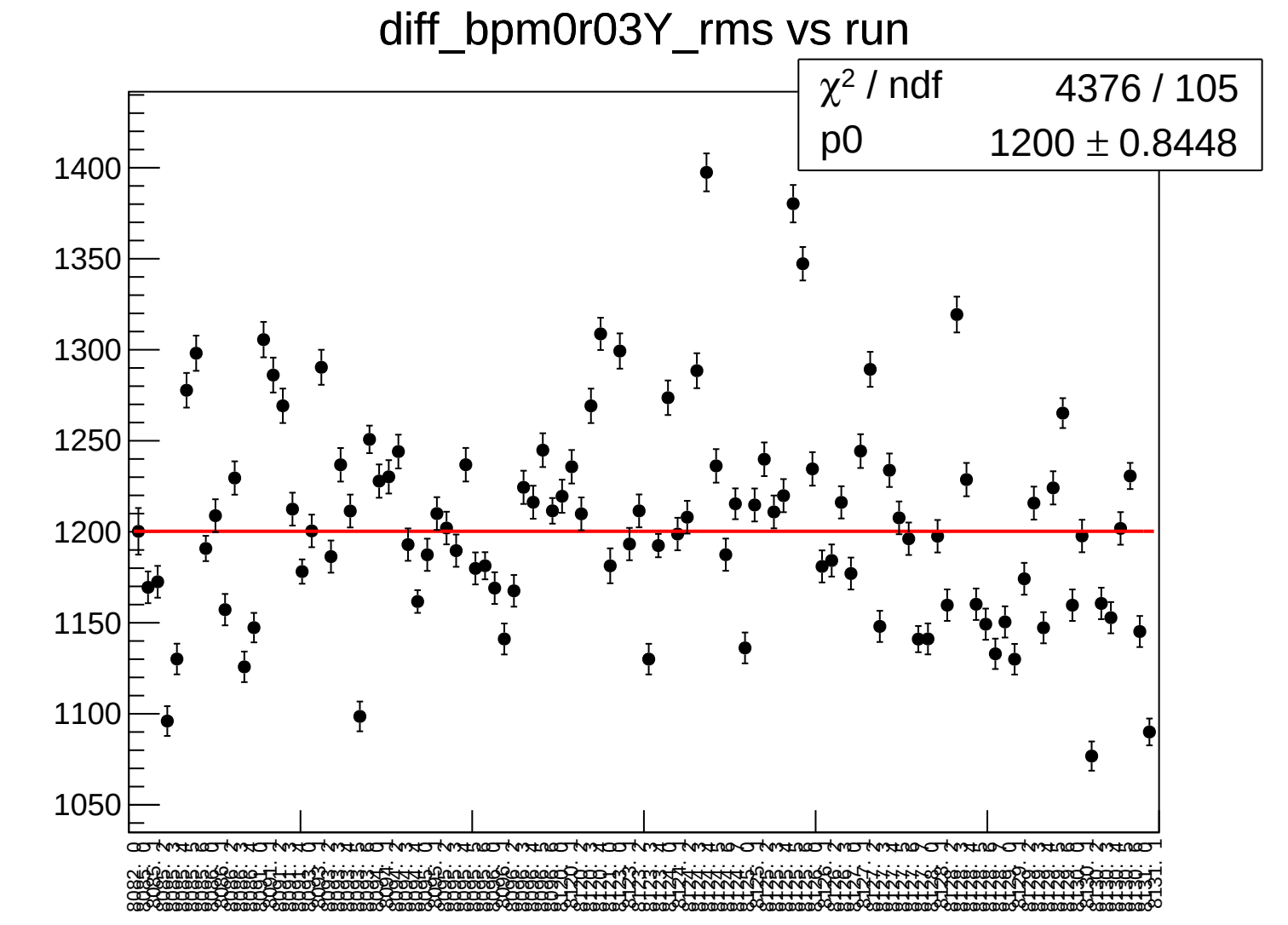

diff_bpm0r03X_mean vs run
χ² / ndf 77.85 / 105
p0 −114.2 ± 54.63
2000
1500
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 106
Mean −121.3
Std Dev 0
2
1
0
−1
−2

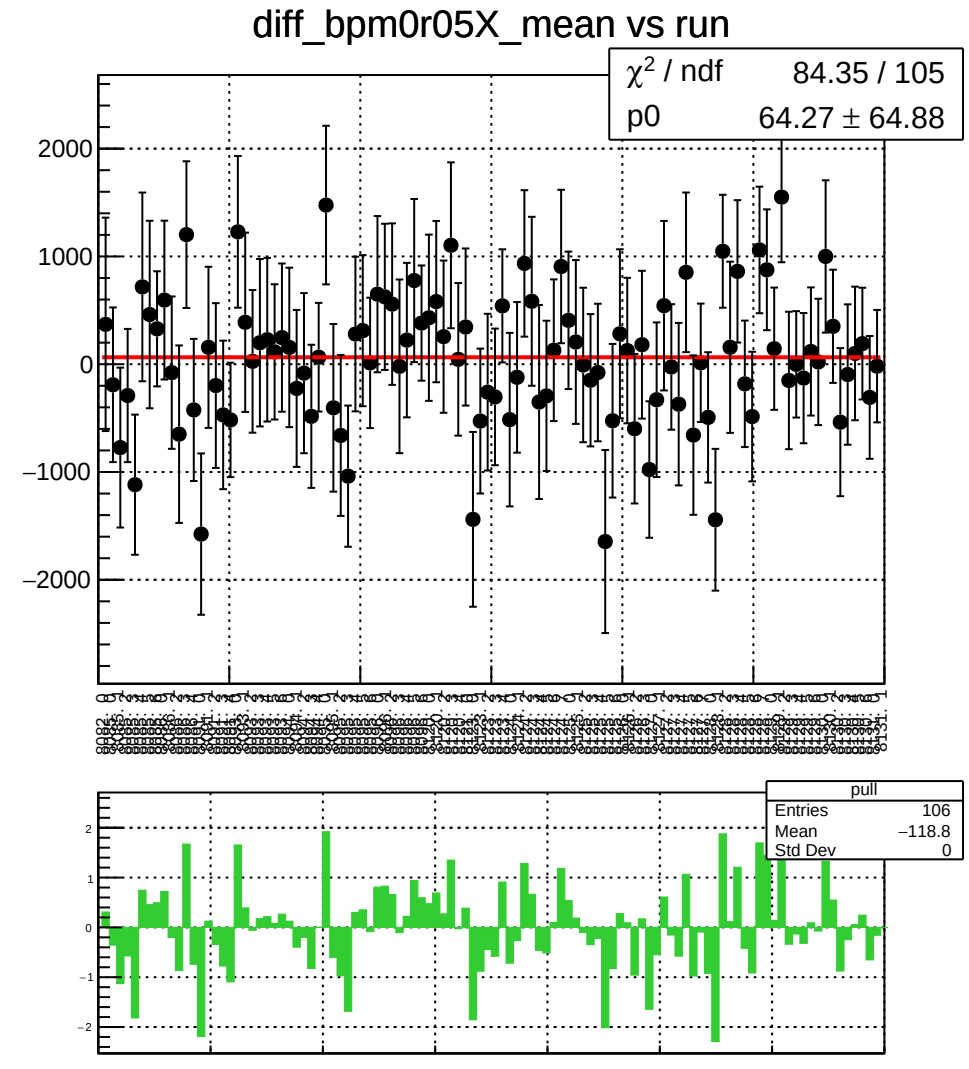

pull1D
Entries 106
Mean 0.007941
Std Dev 0.857
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

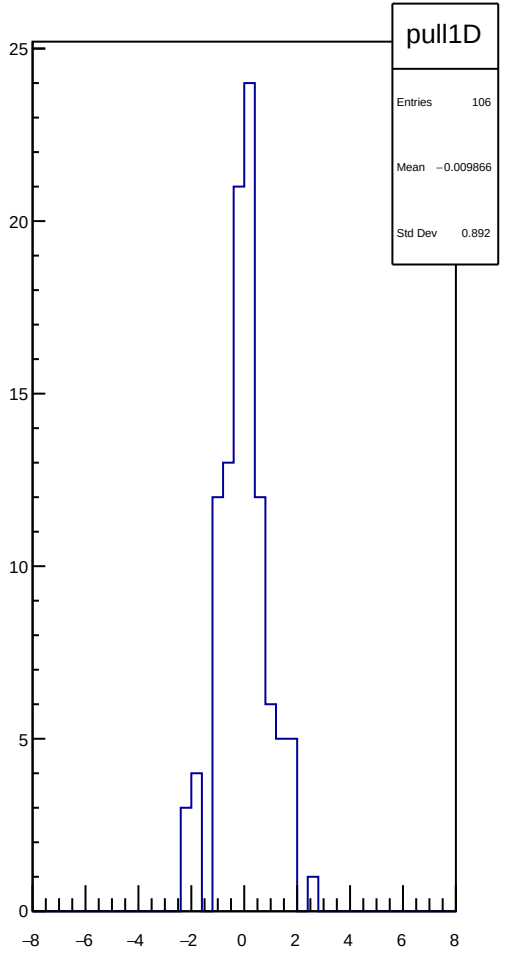

diff_bpm0r03X_rms vs run
χ² / ndf 2.556e+04 / 105
p0 5.459e+04 ± 38.63
70000
65000
60000
55000
50000
45000
40000

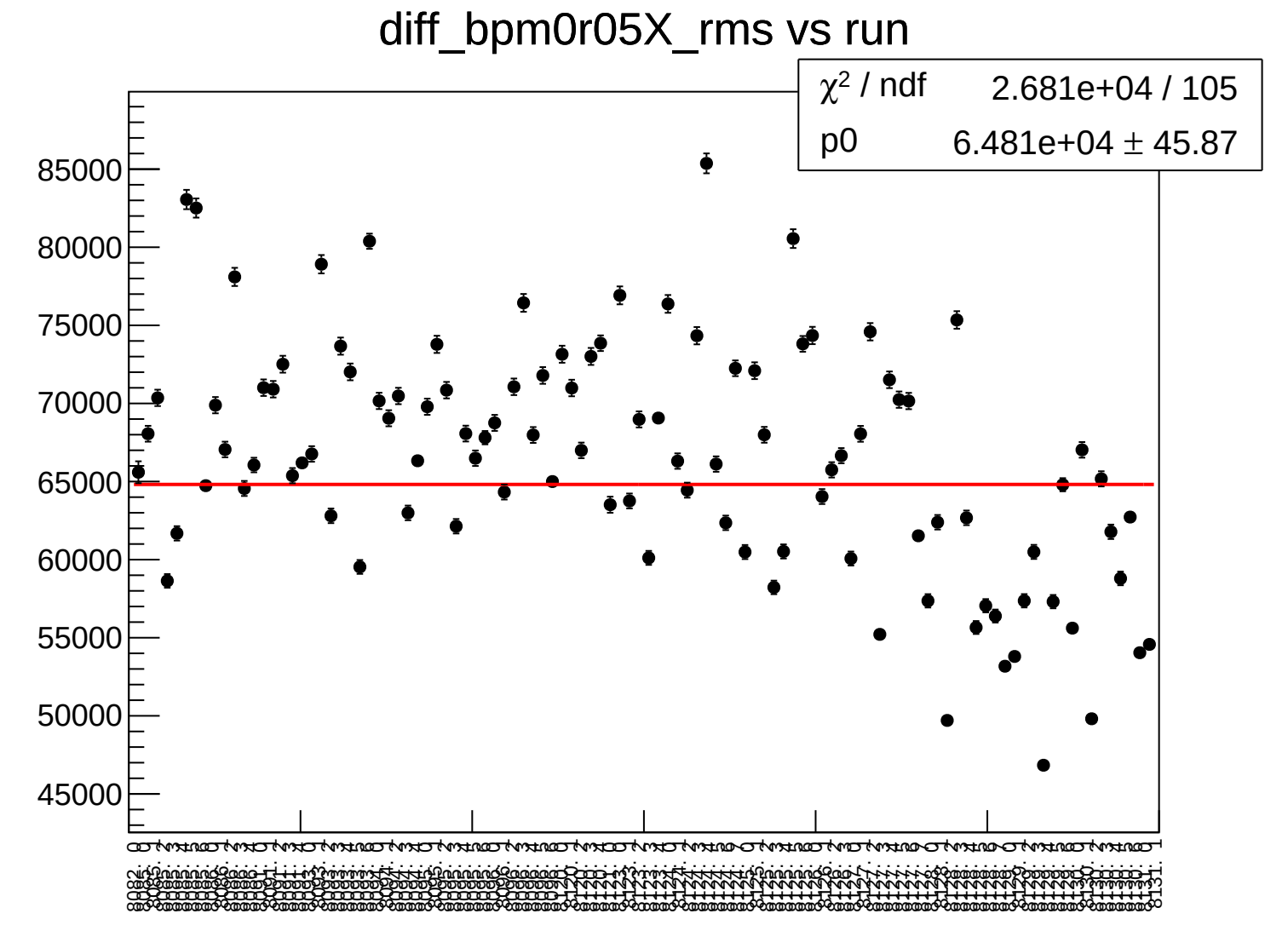

diff_bpm0r03Y_mean vs run
χ² / ndf 219.5 / 105
p0 18.96 ± 1.195
pull
Entries 106
Mean −297.7
Std Dev 0

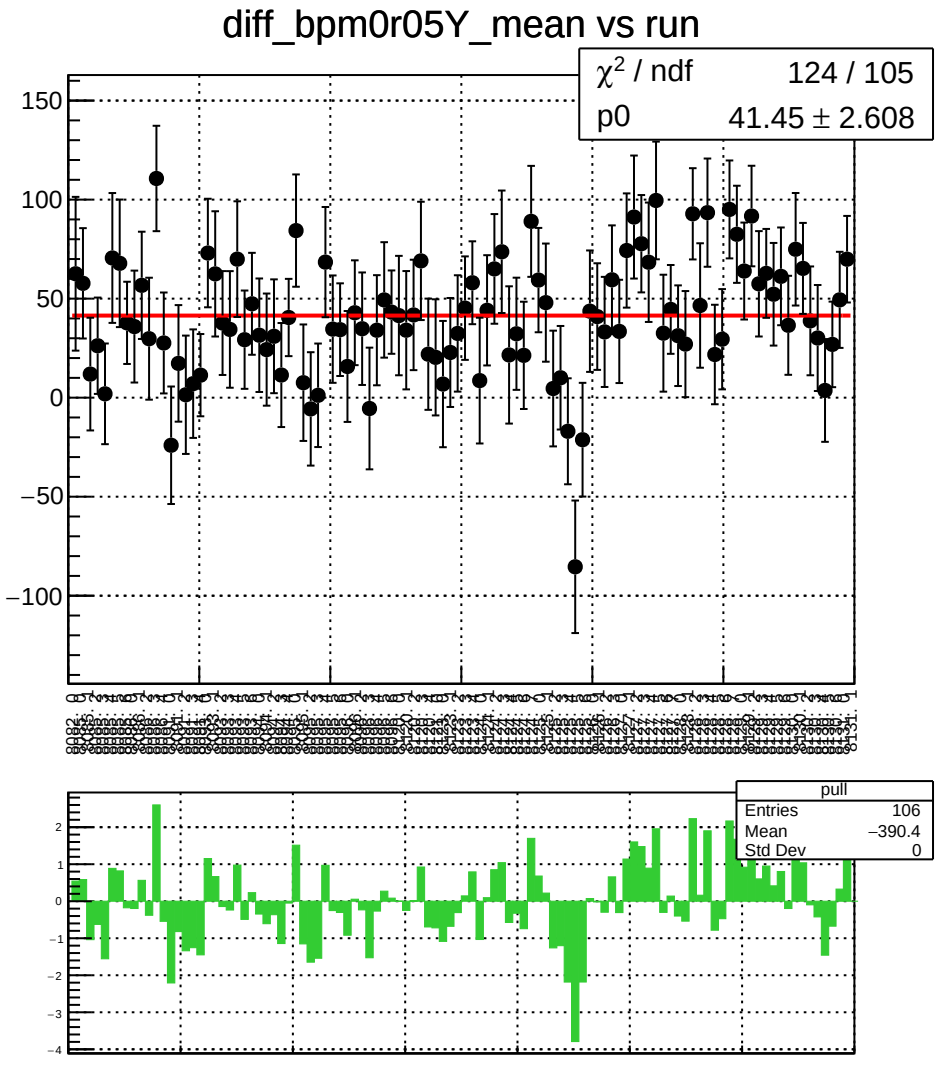

pull1D
Entries 106
Mean −0.02199
Std Dev 1.439

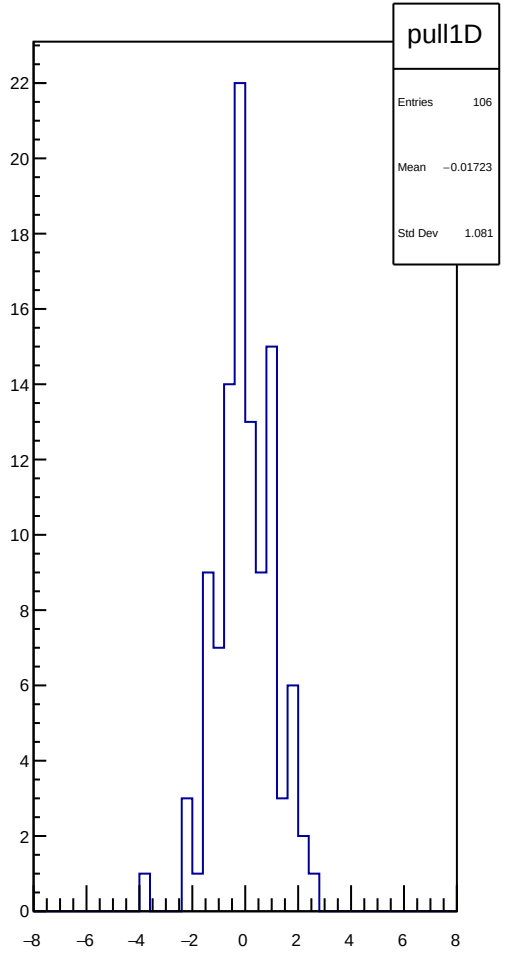

diff_bpm0r03Y_rms vs run
χ² / ndf 4376 / 105
p0 1200 ± 0.8448
1400
1350
1300
1250
1200
1150
1100
1050

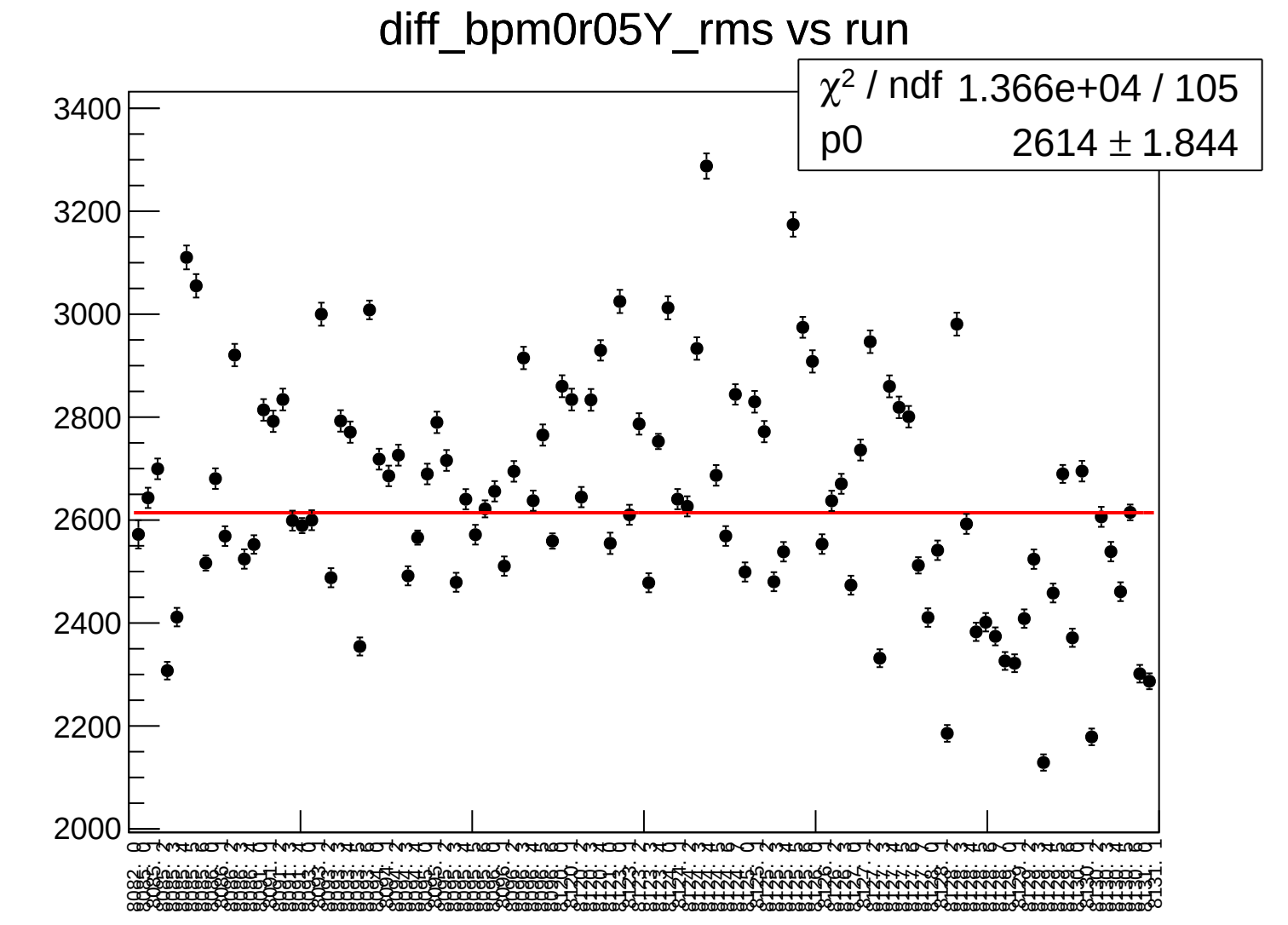

diff_bpm0r05X_mean vs run
χ² / ndf 84.35 / 105
p0 64.27 ± 64.88
2000
1000
0
−1000
−2000
pull
Entries 106
Mean −118.8
Std Dev 0
2
1
0
−1
−2

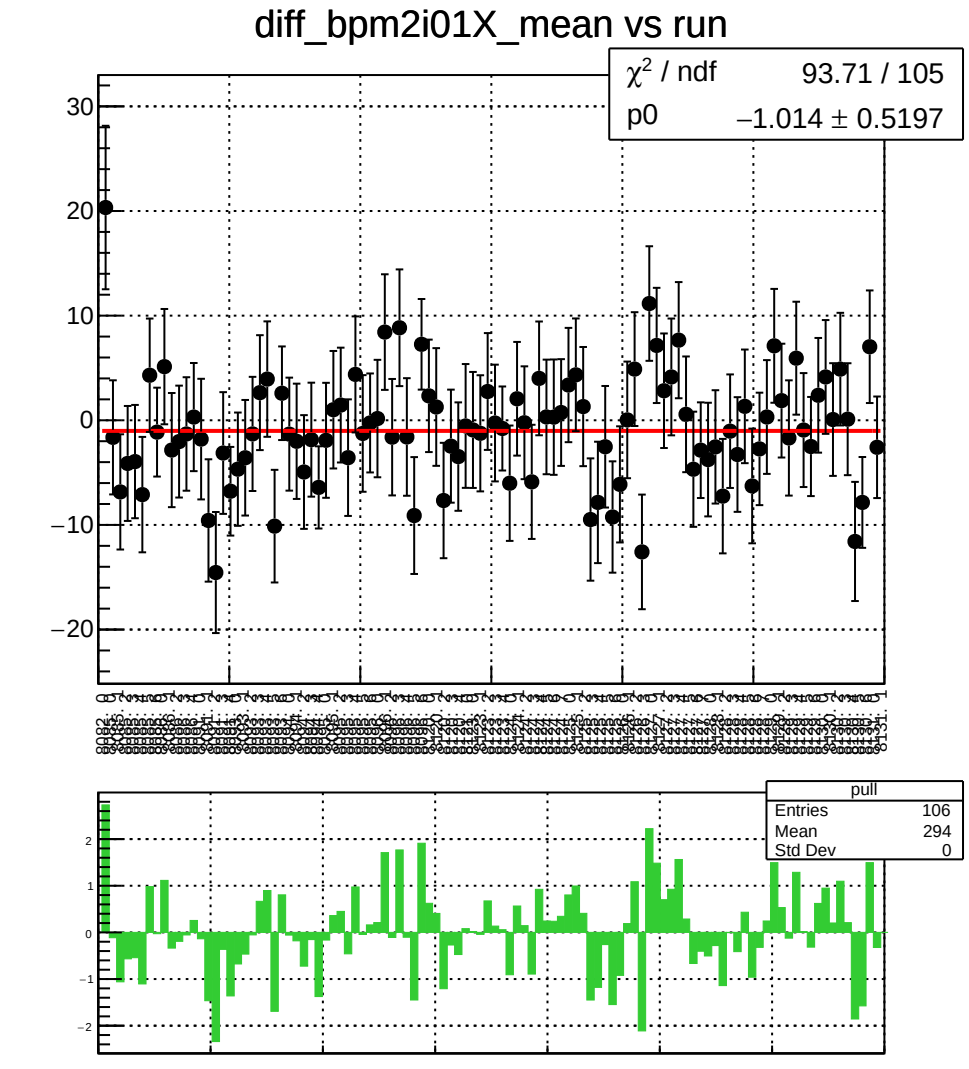

pull1D
Entries 106
Mean −0.009866
Std Dev 0.892
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

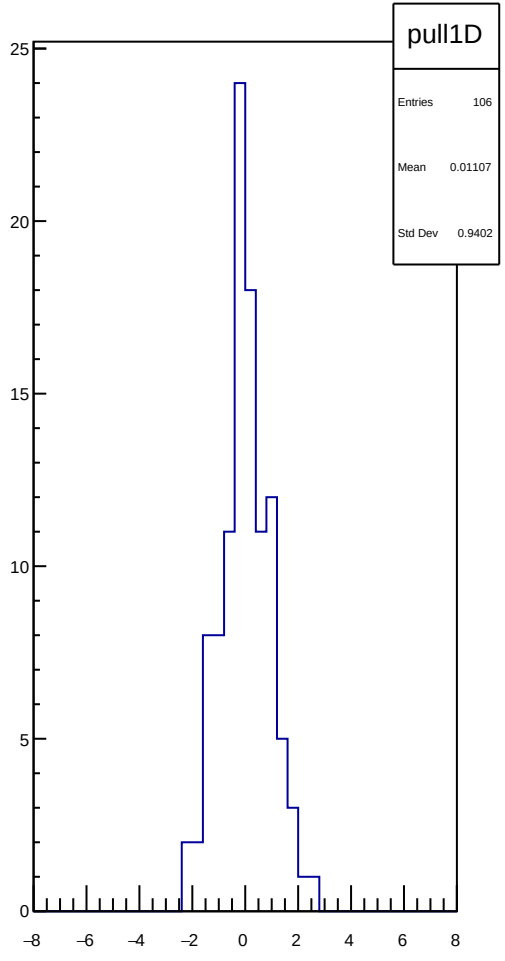

diff_bpm0r05X_rms vs run
χ² / ndf 2.681e+04 / 105
p0 6.481e+04 ± 45.87
85000
80000
75000
70000
65000
60000
55000
50000
45000

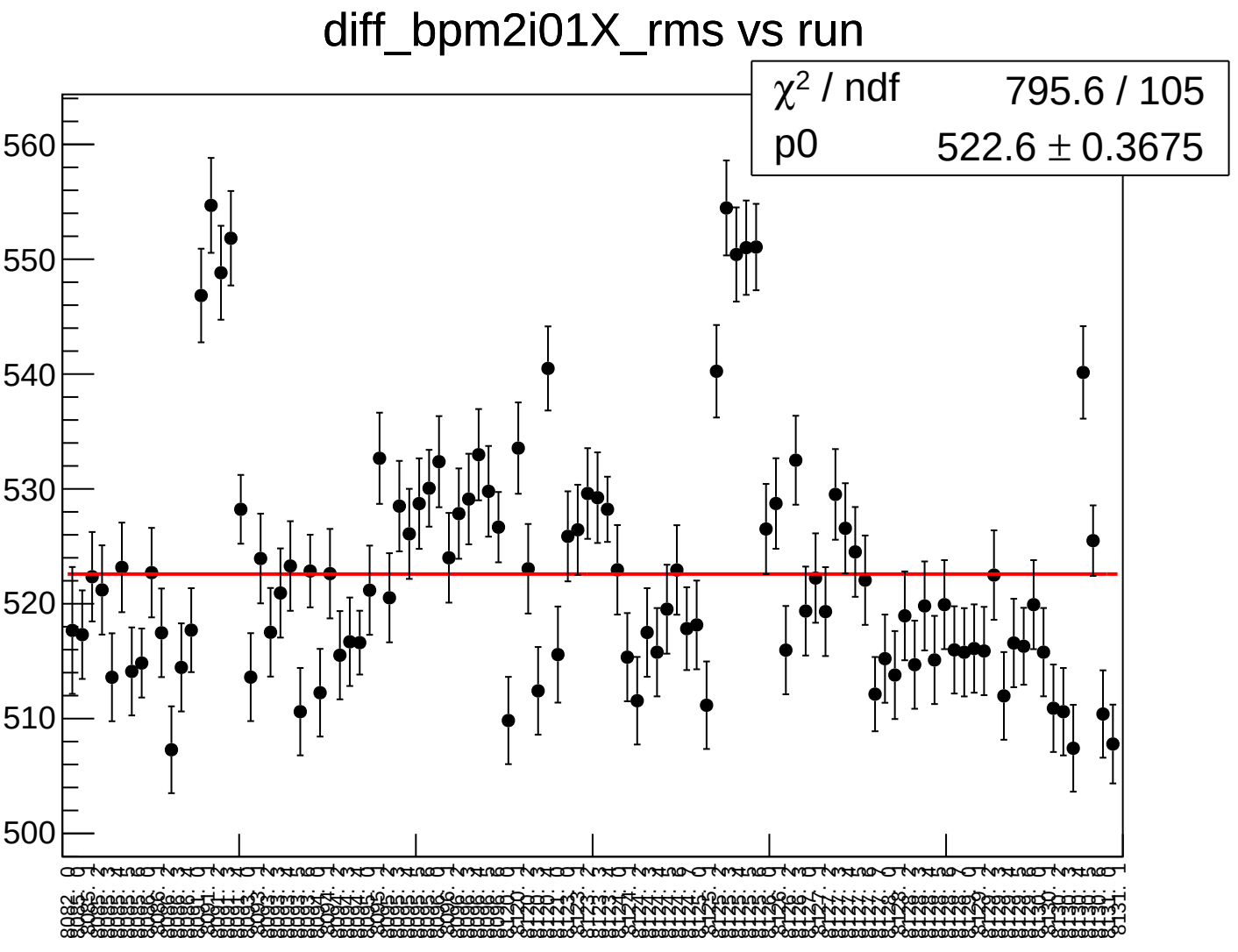

diff_bpm0r05Y_mean vs run
χ² / ndf 124 / 105
p0 41.45 ± 2.608
150
100
50
0
−50
−100
pull
Entries 106
Mean −390.4
Std Dev 0
2
1
0
−1
−2
−3
−4

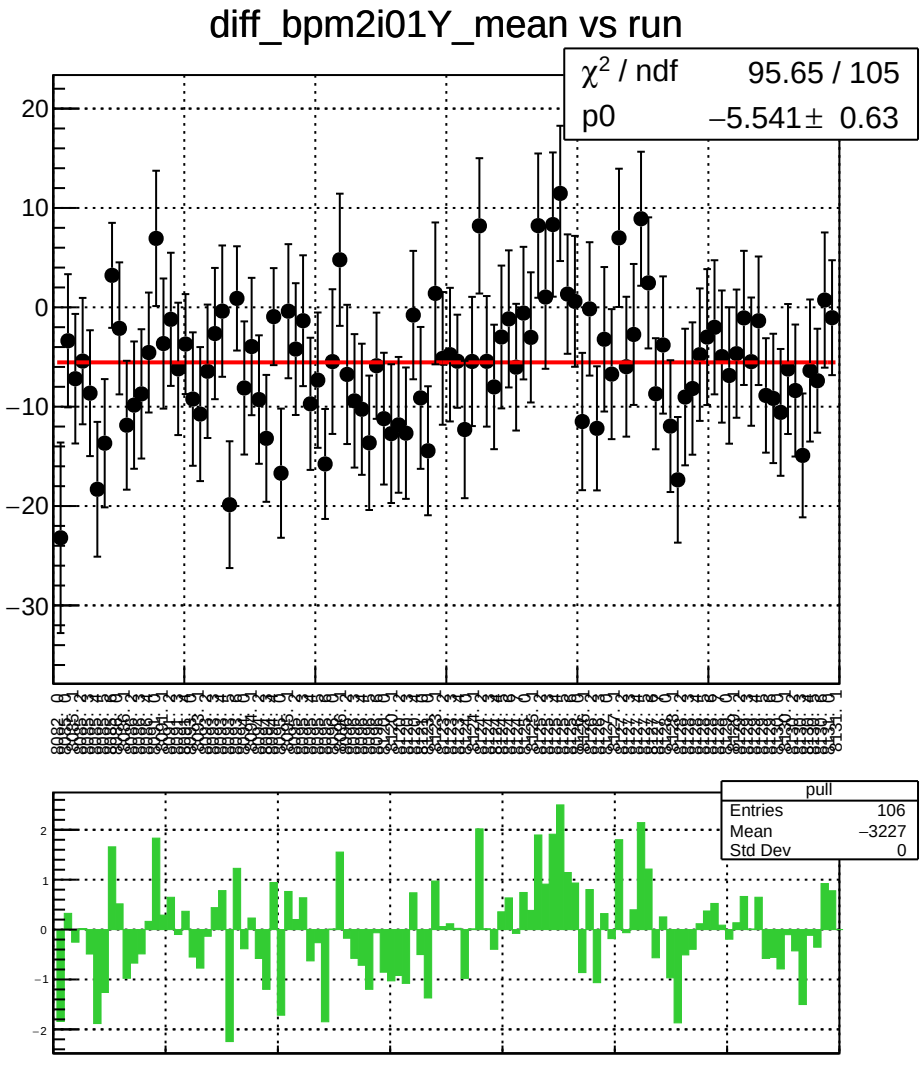

pull1D
Entries 106
Mean −0.01723
Std Dev 1.081
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

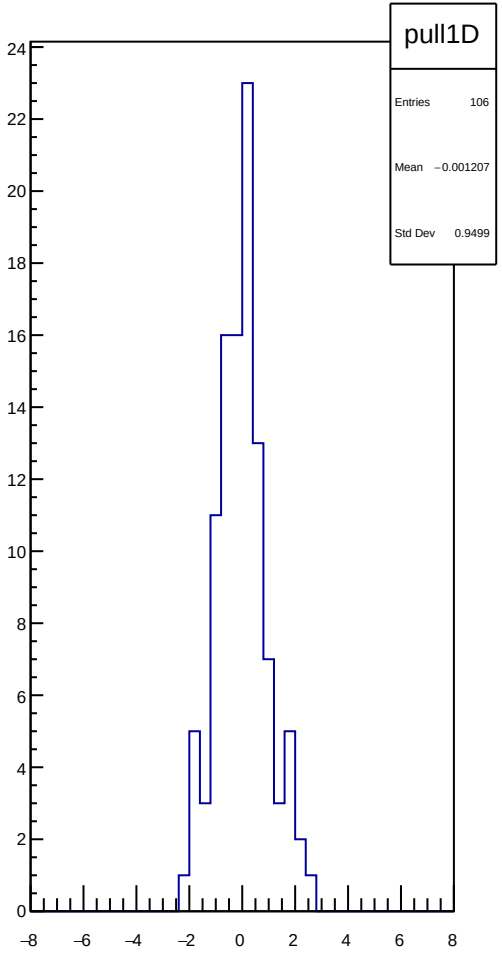

diff_bpm0r05Y_rms vs run
χ² / ndf 1.366e+04 / 105
p0 2614 ± 1.844
3400
3200
3000
2800
2600
2400
2200
2000

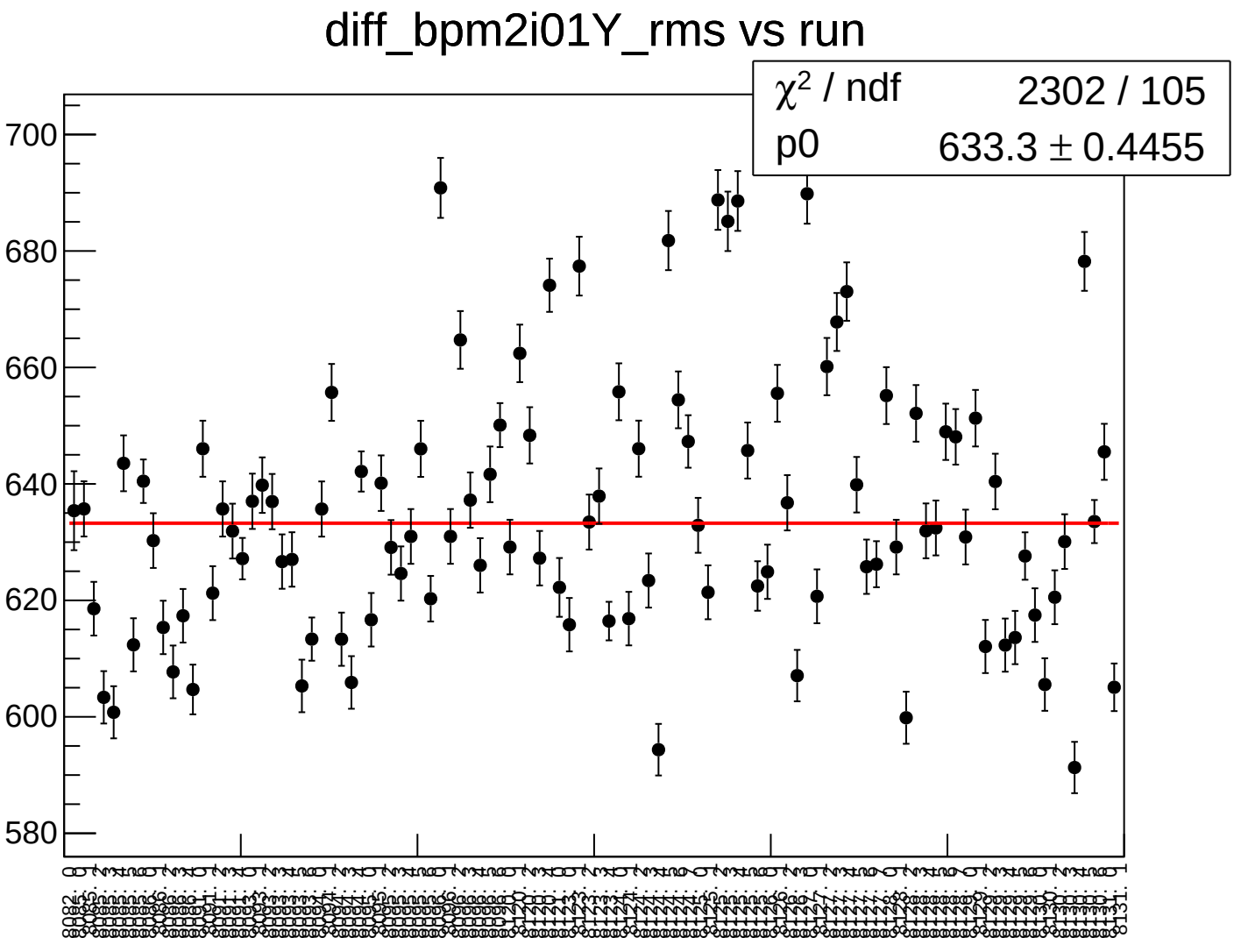

diff_bpm2i01X_mean vs run
χ² / ndf 93.71 / 105
p0 −1.014 ± 0.5197
30
20
10
0
−10
−20
pull
Entries 106
Mean 294
Std Dev 0
2
1
0
−1
−2

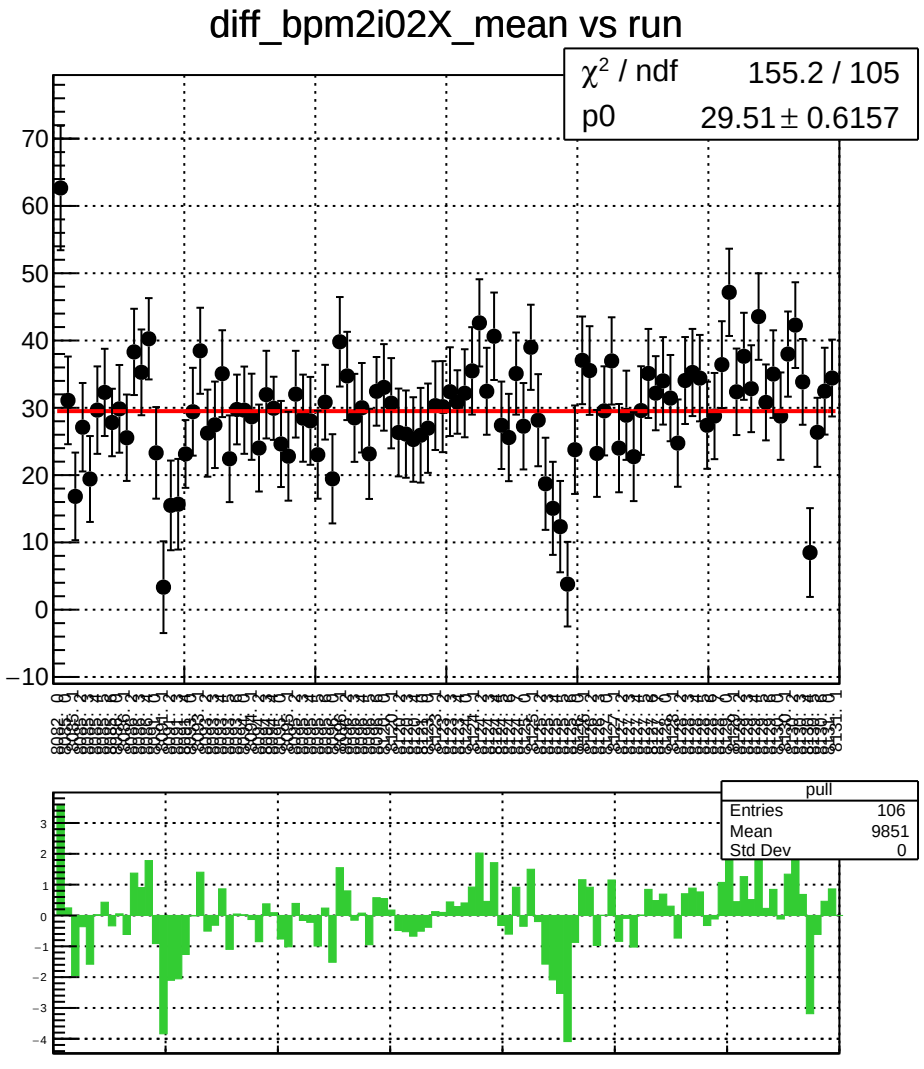

pull1D
Entries 106
Mean 0.01107
Std Dev 0.9402
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

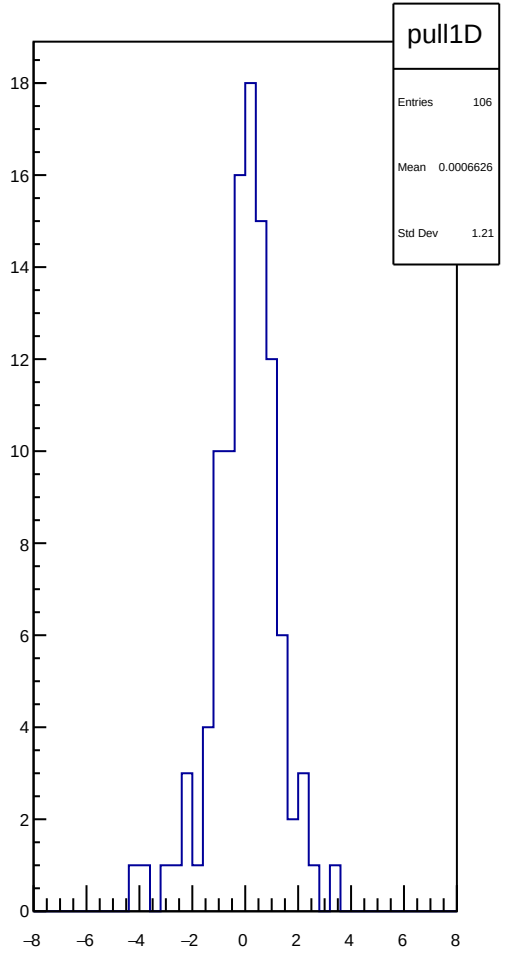

diff_bpm2i01X_rms vs run
χ² / ndf 795.6 / 105
p0 522.6 ± 0.3675
560
550
540
530
520
510
500

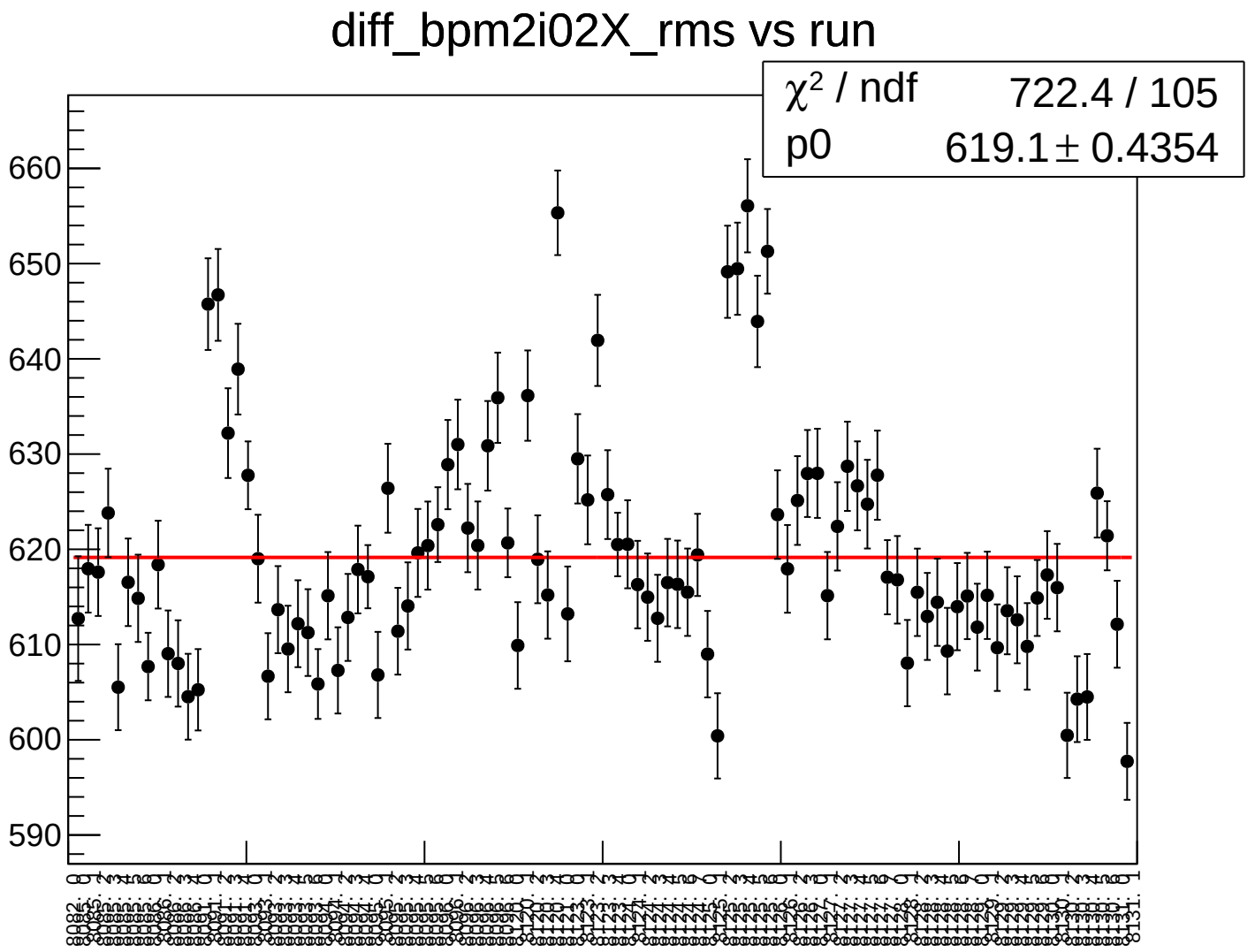

diff_bpm2i01Y_mean vs run
χ² / ndf 95.65 / 105
p0 −5.541 ± 0.63
pull
Entries 106
Mean −3227
Std Dev 0

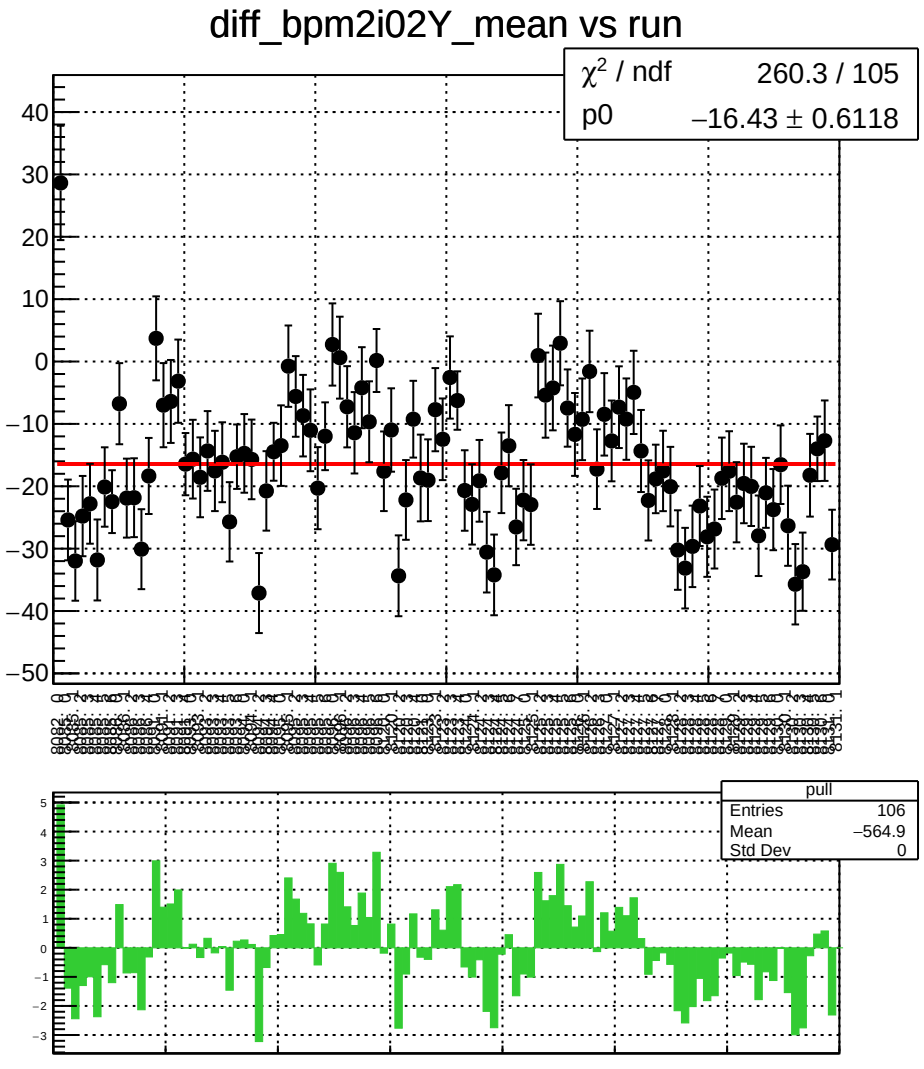

pull1D
Entries 106
Mean −0.001207
Std Dev 0.9499

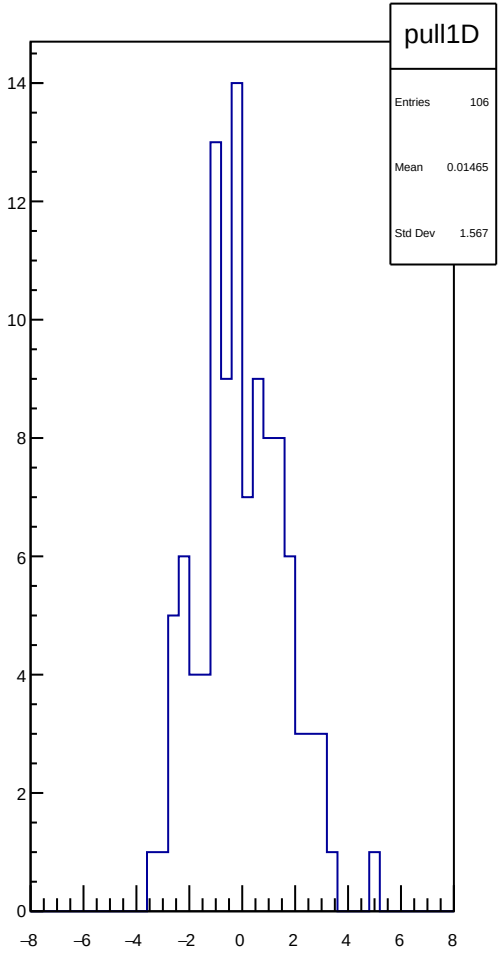

diff_bpm2i01Y_rms vs run
χ² / ndf 2302 / 105
p0 633.3 ± 0.4455
700
680
660
640
620
600
580

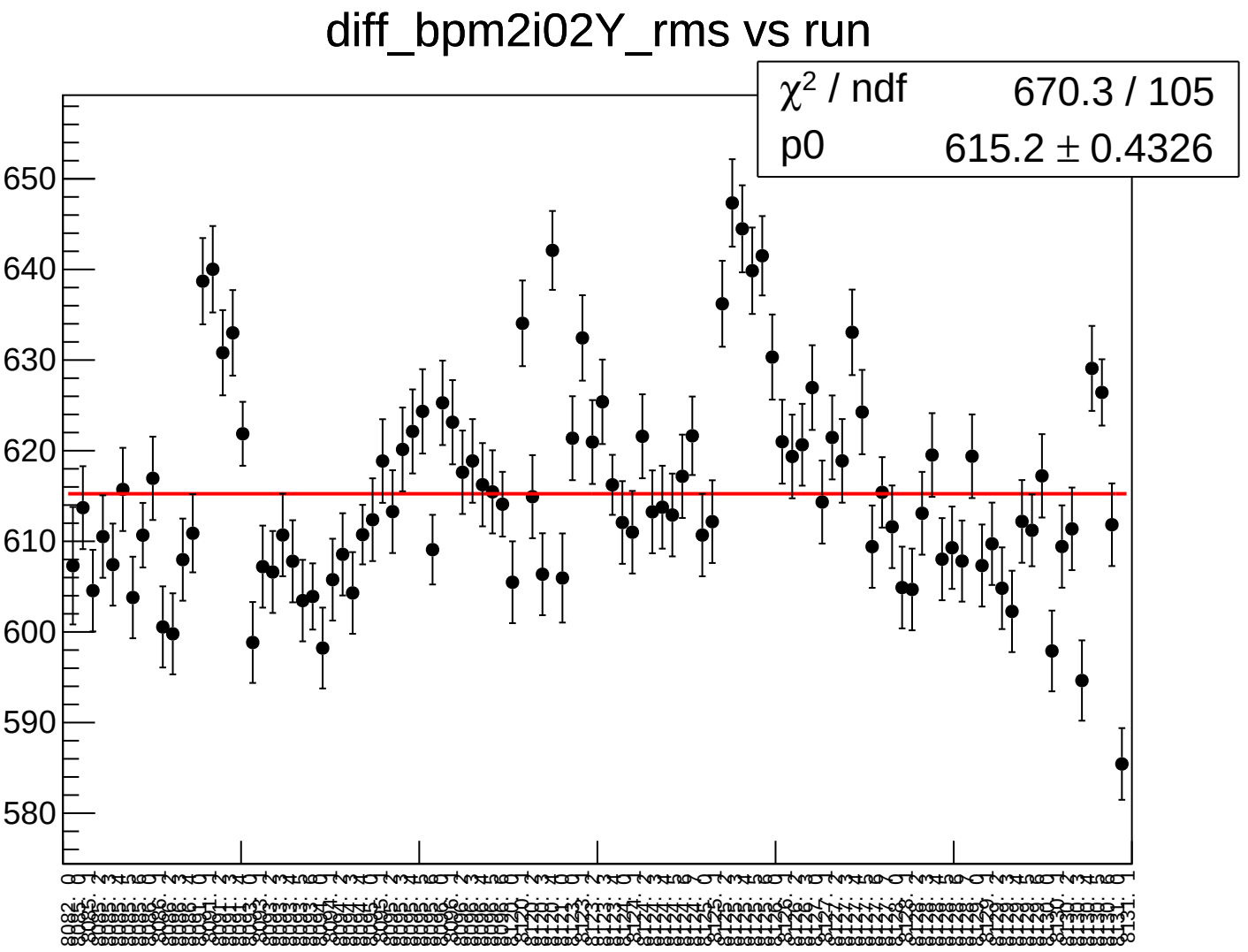

diff_bpm2i02X_mean vs run
χ² / ndf 155.2 / 105
p0 29.51 ± 0.6157
pull
Entries 106
Mean 9851
Std Dev 0

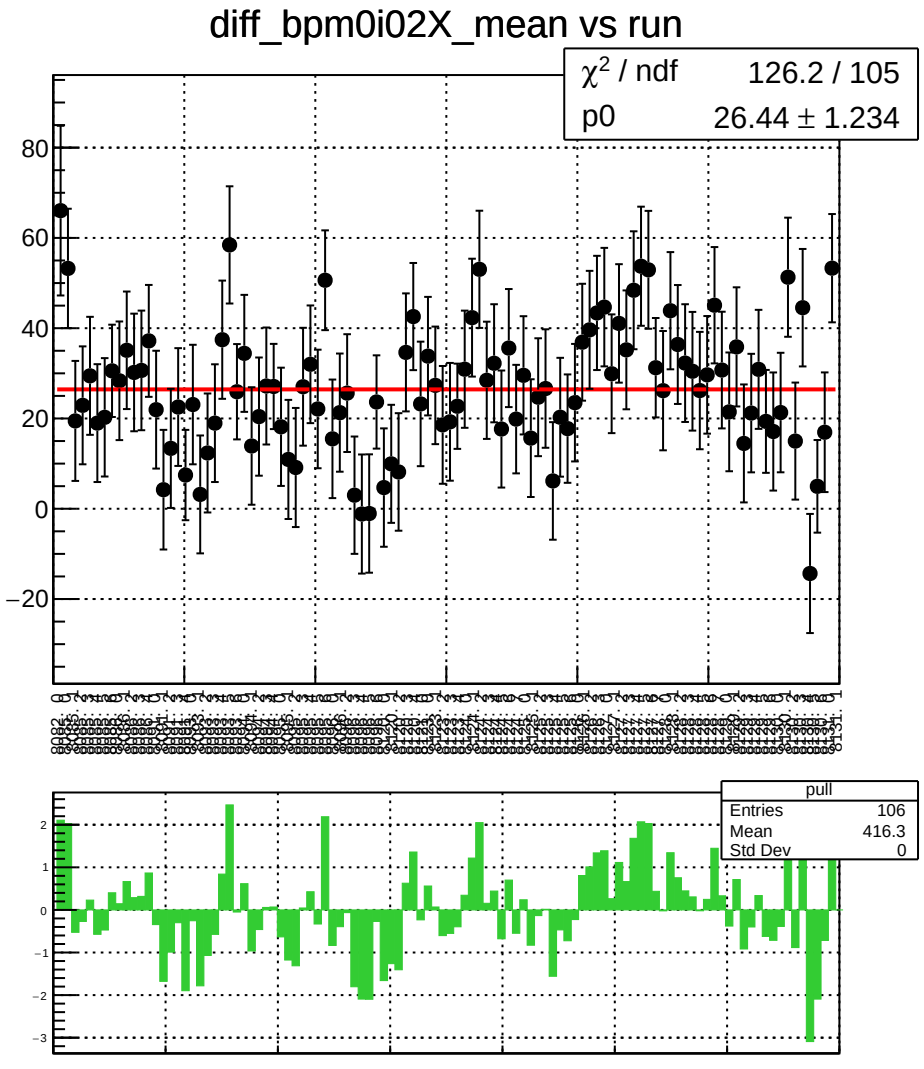

pull1D
Entries 106
Mean 0.0006626
Std Dev 1.21

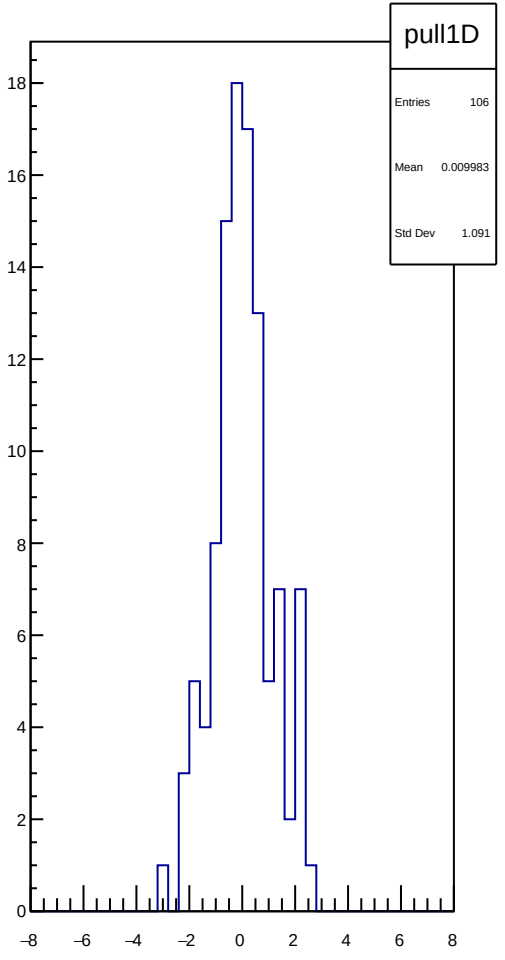

diff_bpm2i02X_rms vs run
χ² / ndf 722.4 / 105
p0 619.1 ± 0.4354
660
650
640
630
620
610
600
590

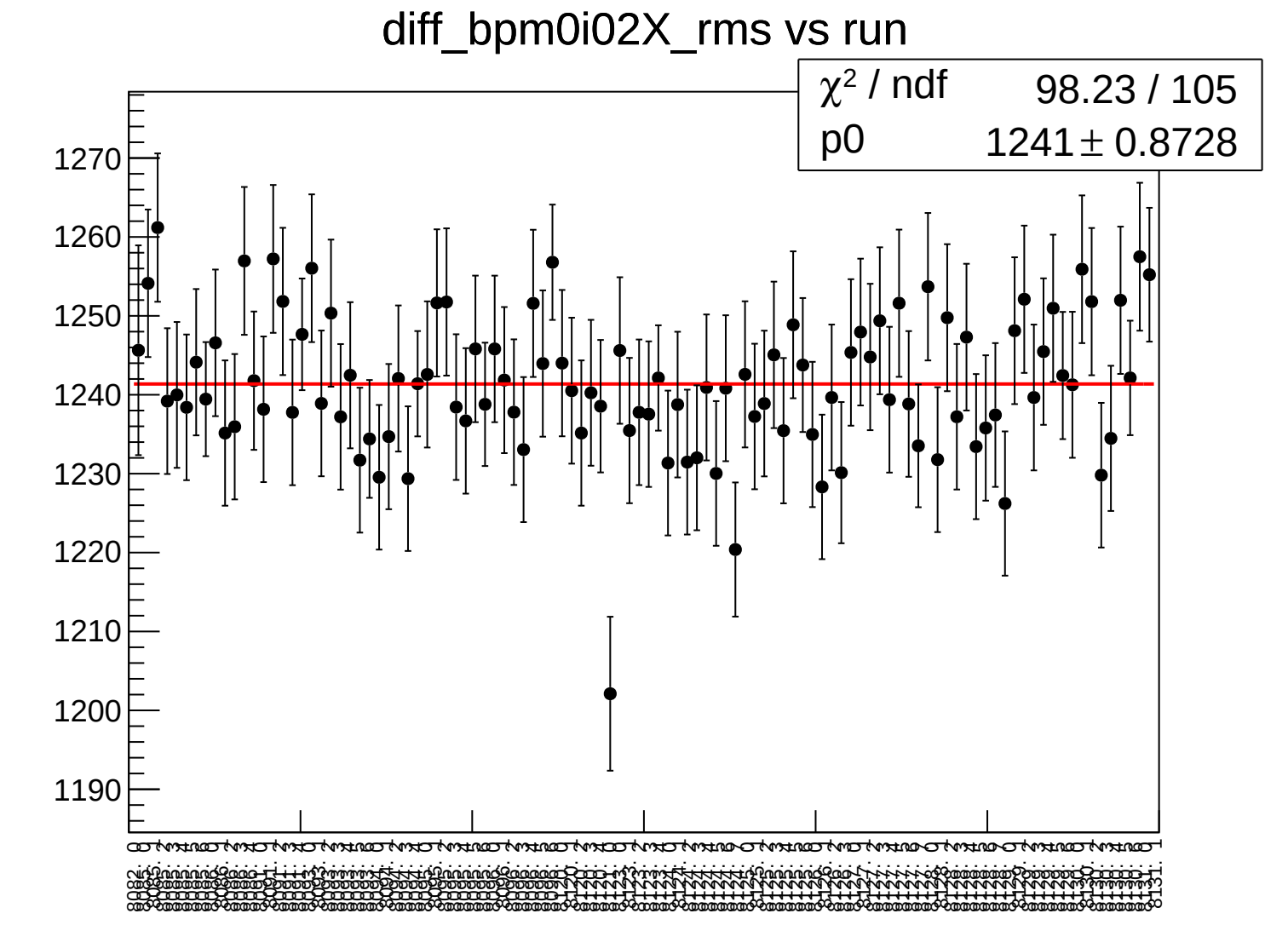

diff_bpm2i02Y_mean vs run
χ² / ndf 260.3 / 105
p0 −16.43 ± 0.6118
pull
Entries 106
Mean −564.9
Std Dev 0

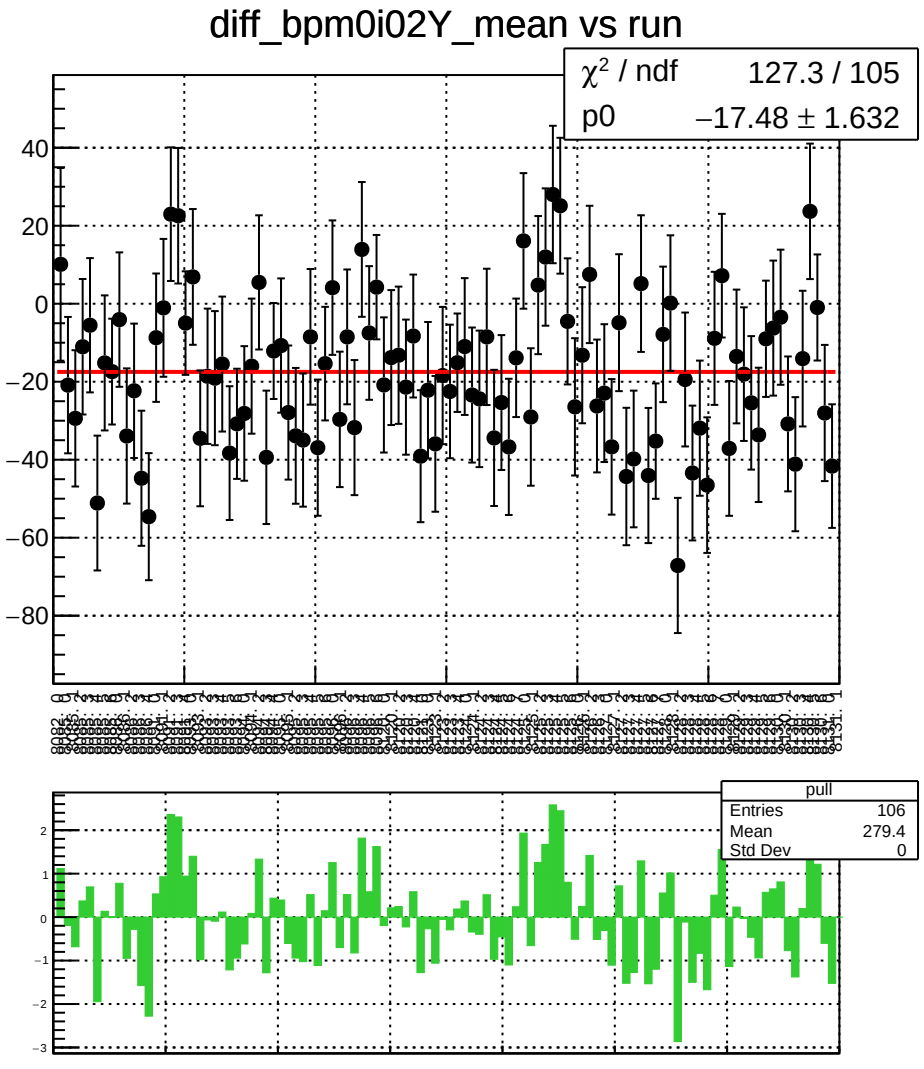

pull1D
Entries 106
Mean 0.01465
Std Dev 1.567

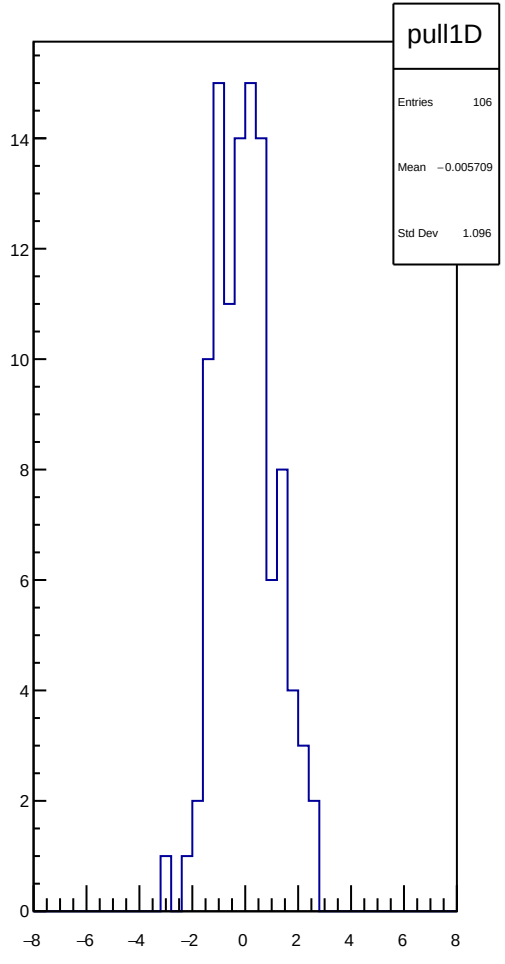

diff_bpm2i02Y_rms vs run
χ² / ndf 670.3 / 105
p0 615.2 ± 0.4326
650
640
630
620
610
600
590
580

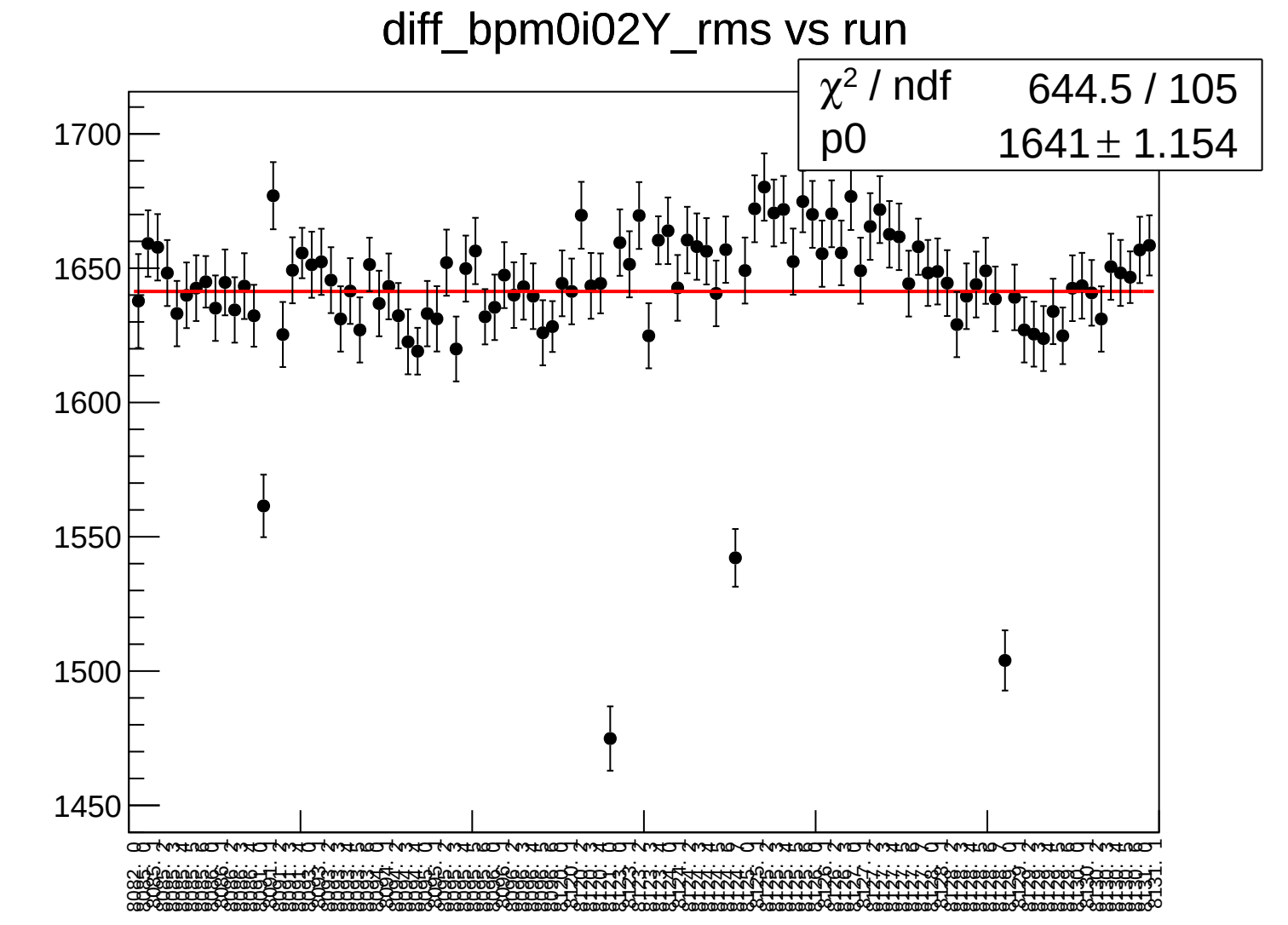

diff_bpm0i02X_mean vs run
χ² / ndf 126.2 / 105
p0 26.44 ± 1.234
pull
Entries 106
Mean 416.3
Std Dev 0

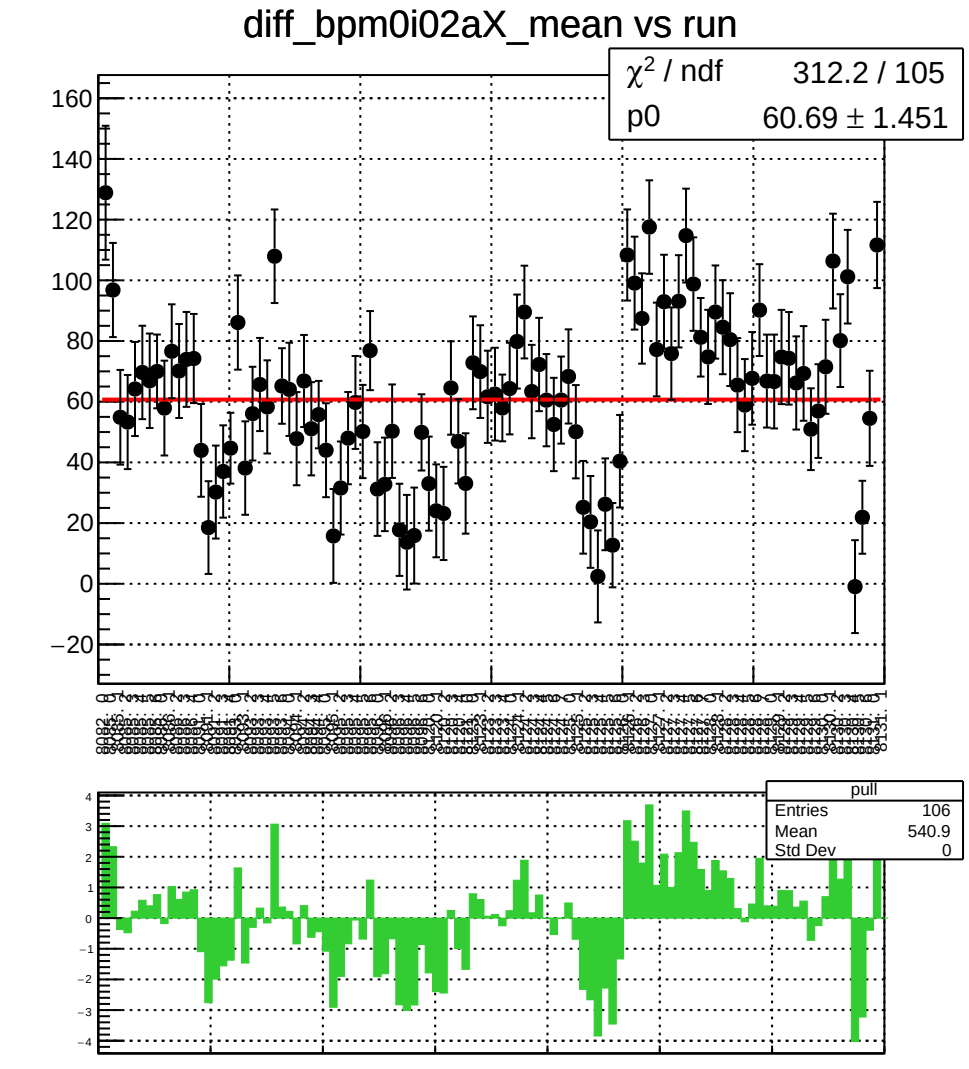

pull1D
Entries 106
Mean 0.009983
Std Dev 1.091

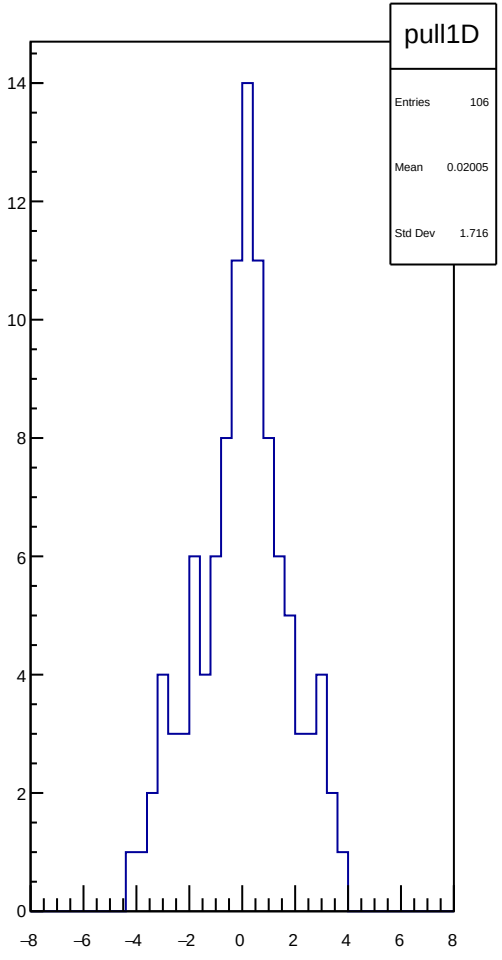

diff_bpm0i02X_rms vs run
χ² / ndf 98.23 / 105
p0 1241 ± 0.8728
1270
1260
1250
1240
1230
1220
1210
1200
1190

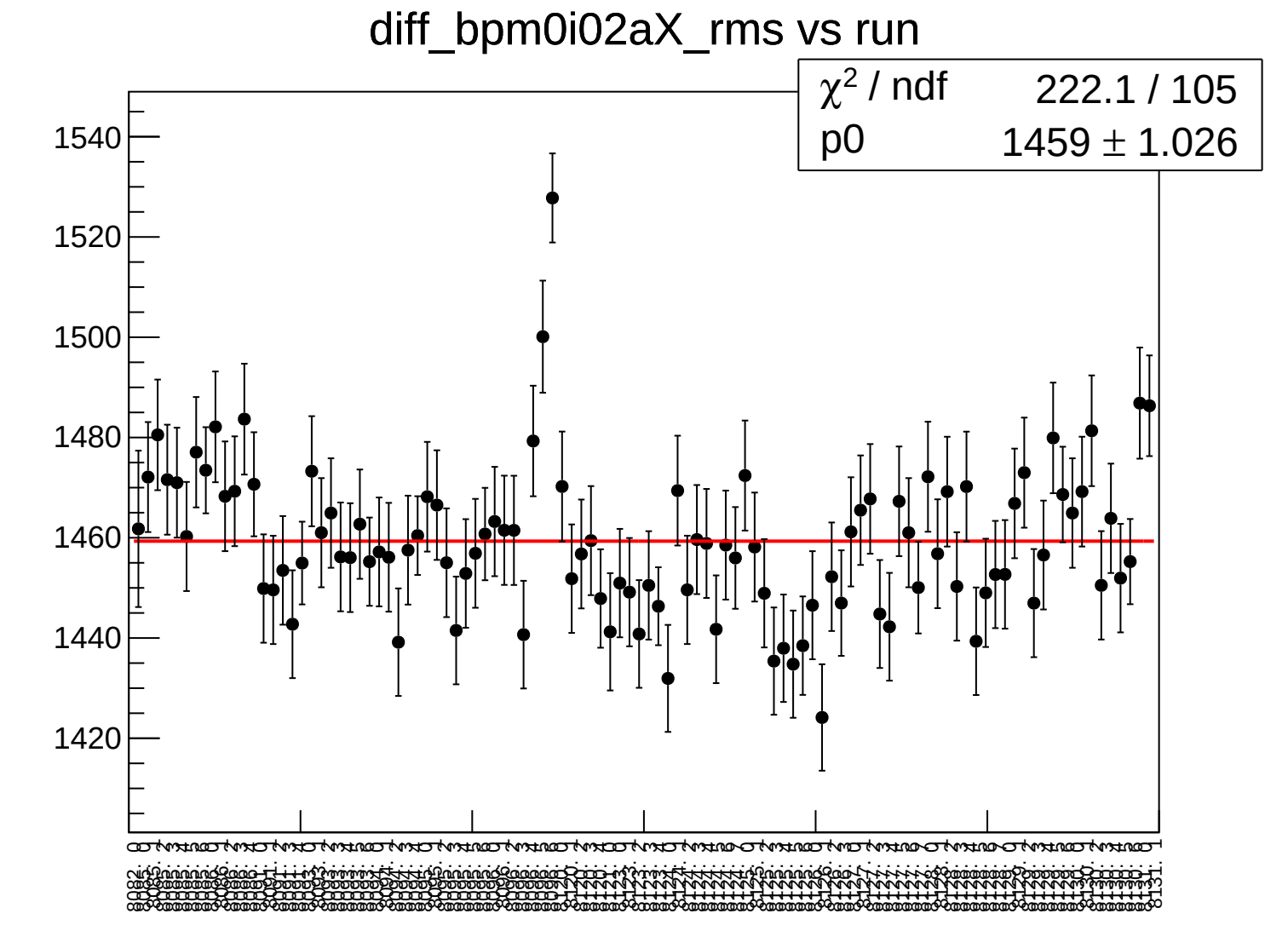

diff_bpm0i02Y_mean vs run
χ² / ndf 127.3 / 105
p0 −17.48 ± 1.632
40
20
0
−20
−40
−60
−80
pull
Entries 106
Mean 279.4
Std Dev 0
2
1
0
−1
−2
−3

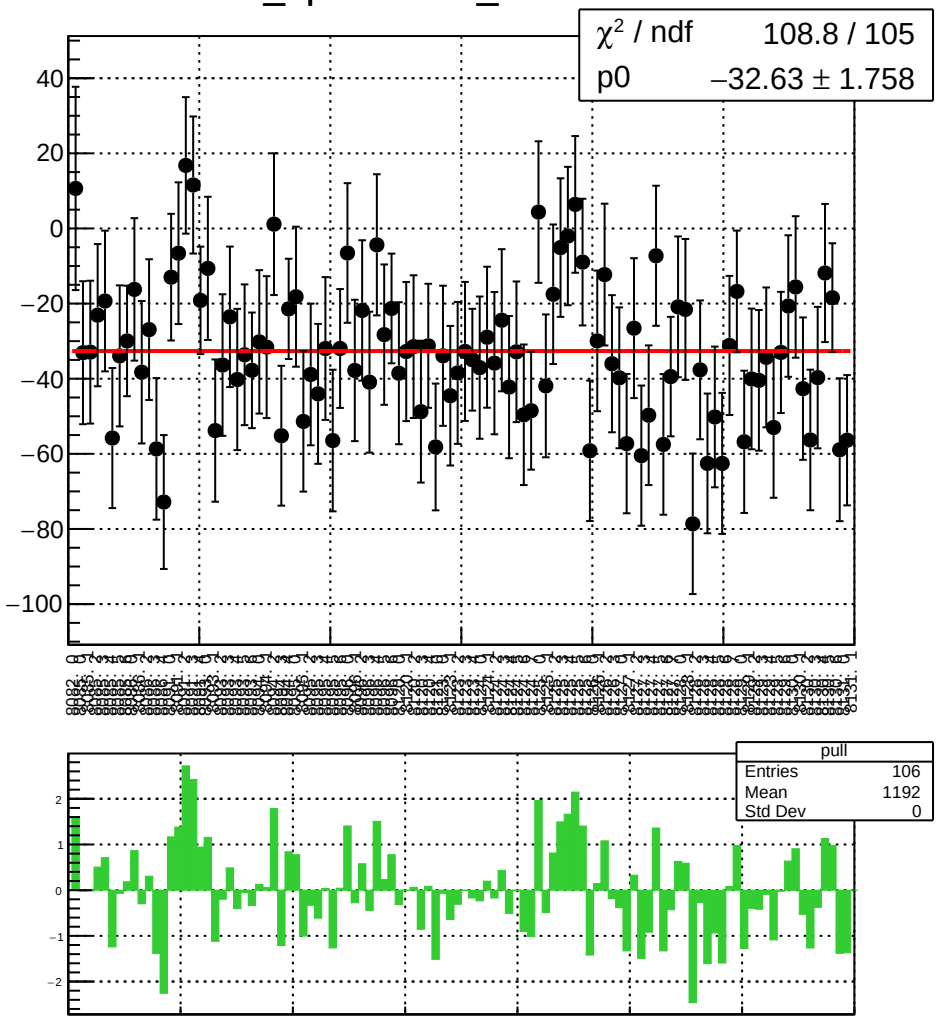

pull1D
Entries 106
Mean −0.005709
Std Dev 1.096
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

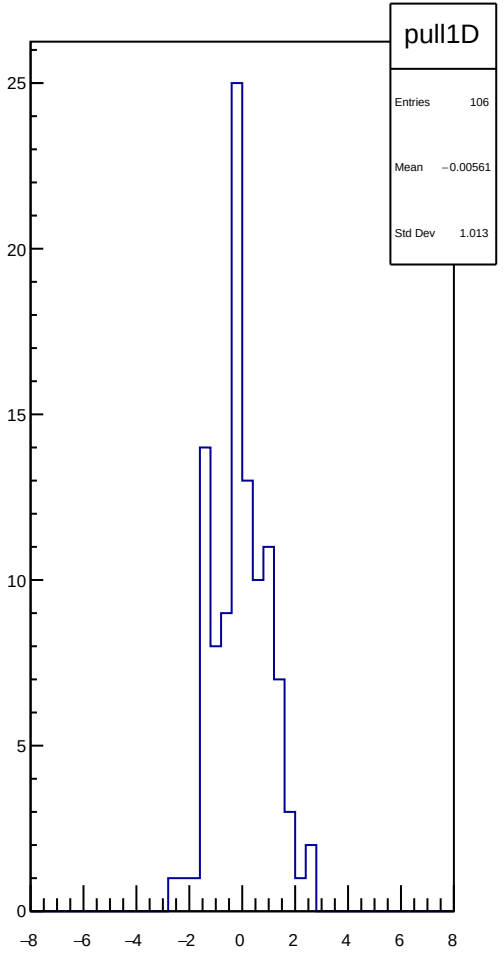

diff_bpm0i02Y_rms vs run
χ² / ndf 644.5 / 105
p0 1641 ± 1.154
1700
1650
1600
1550
1500
1450

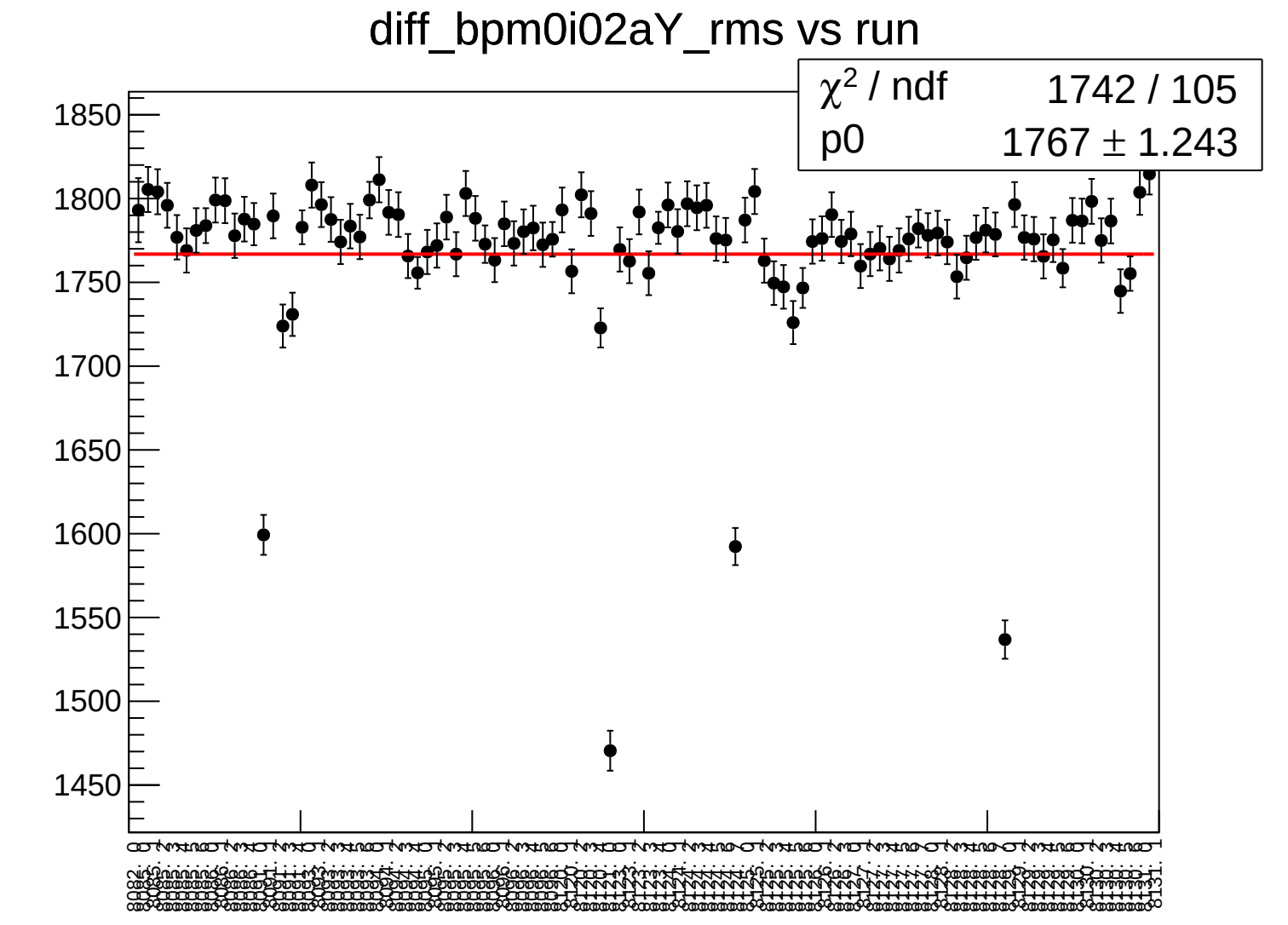

diff_bpm0i02aX_mean vs run
χ² / ndf 312.2 / 105
p0 60.69 ± 1.451
160
140
120
100
80
60
40
20
0
−20
pull
Entries 106
Mean 540.9
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4

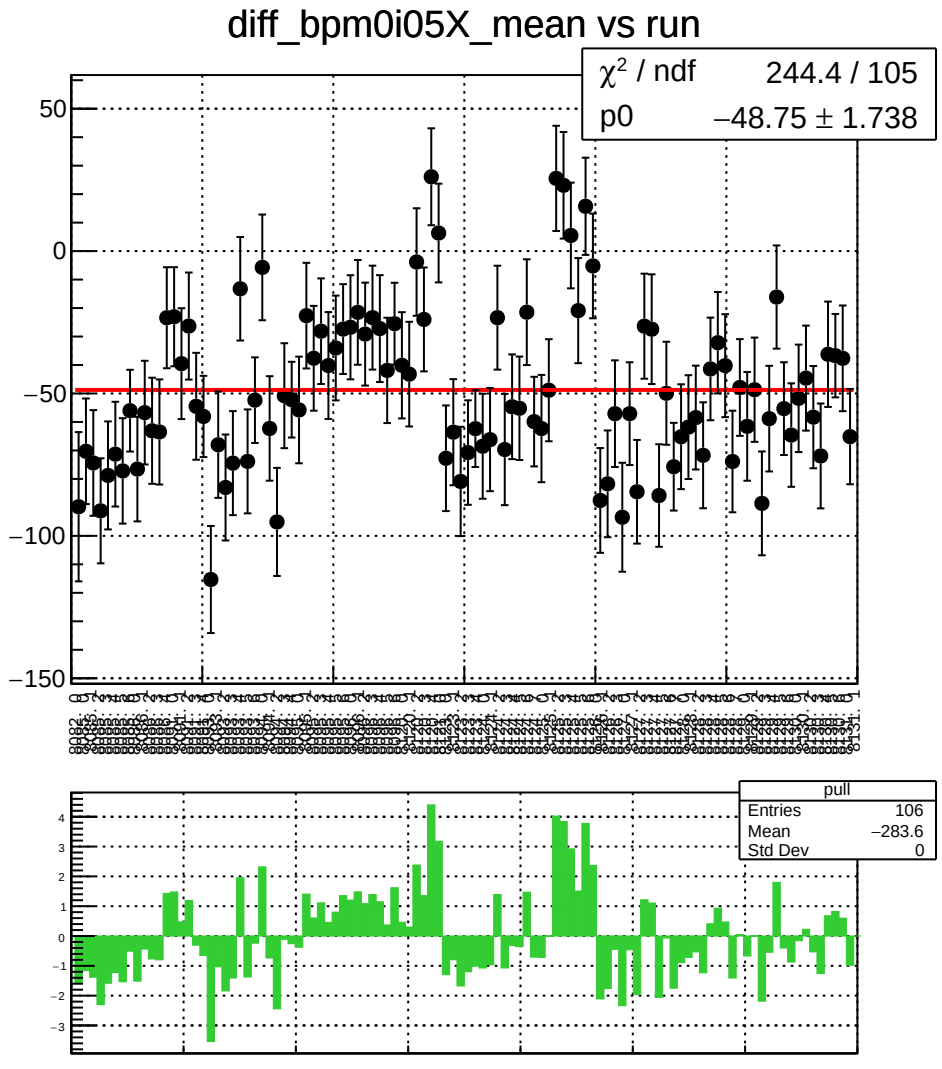

pull1D
Entries 106
Mean 0.02005
Std Dev 1.716
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

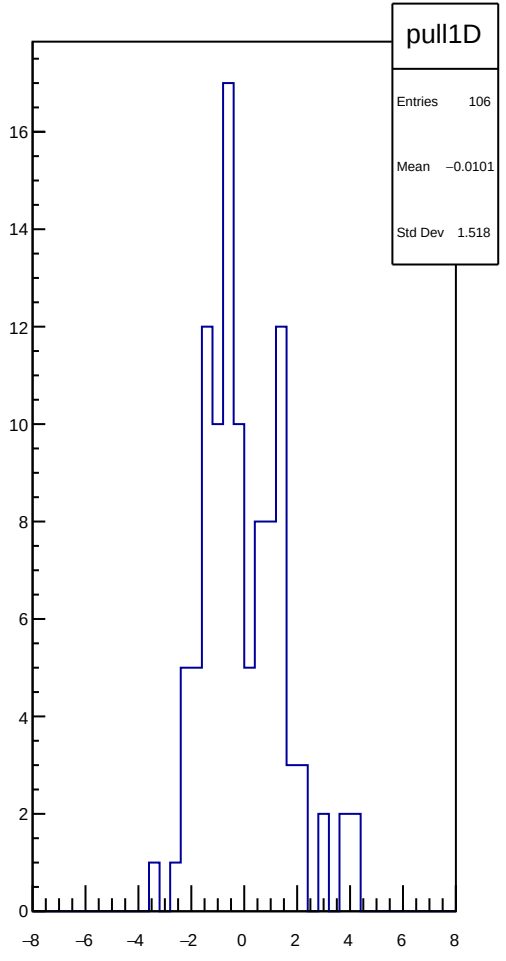

diff_bpm0i02aX_rms vs run
χ² / ndf 222.1 / 105
p0 1459 ± 1.026
1540
1520
1500
1480
1460
1440
1420

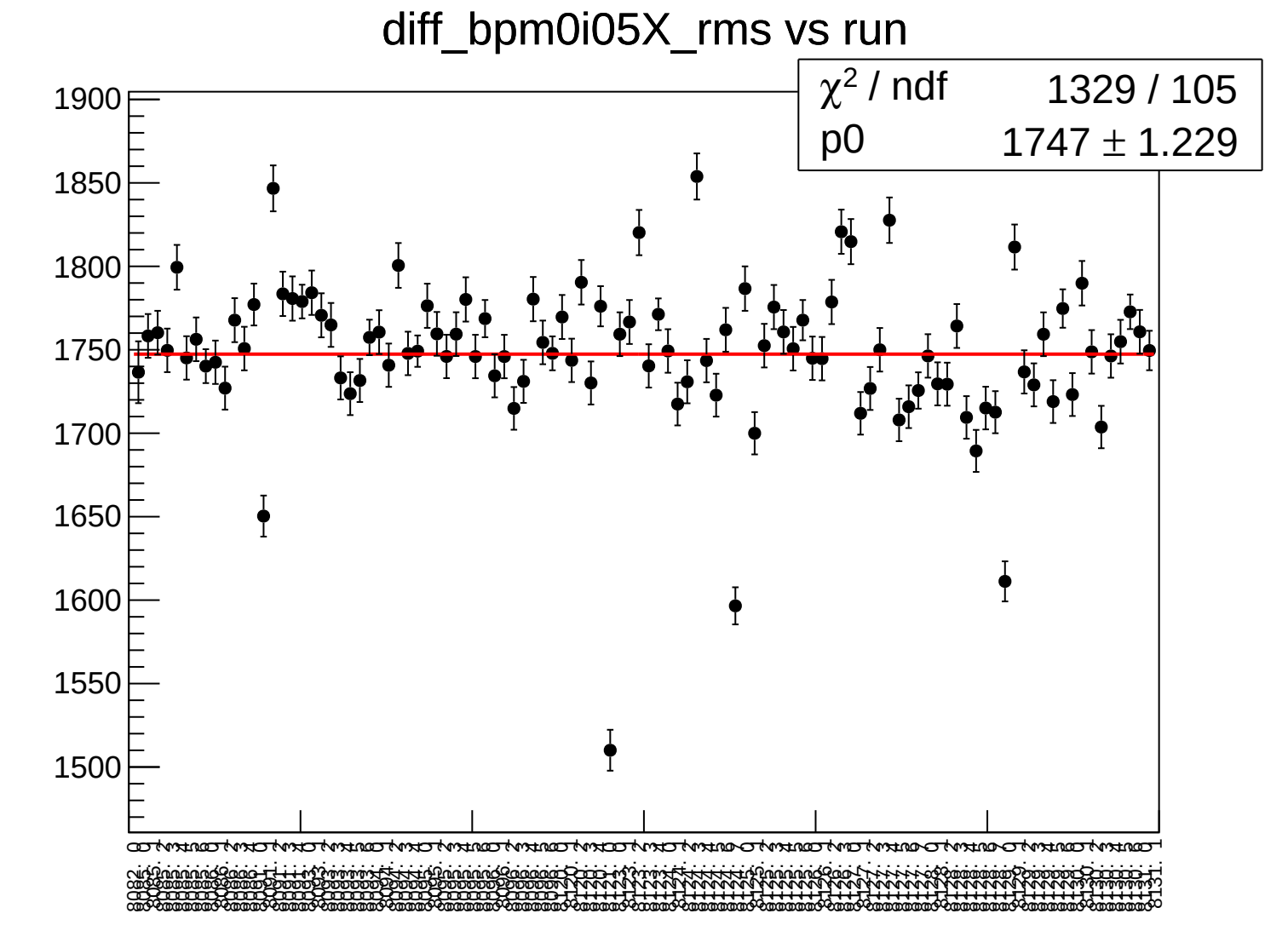

diff_bpm0i02aY_mean vs run
χ² / ndf 108.8 / 105
p0 −32.63 ± 1.758
pull
Entries 106
Mean 1192
Std Dev 0

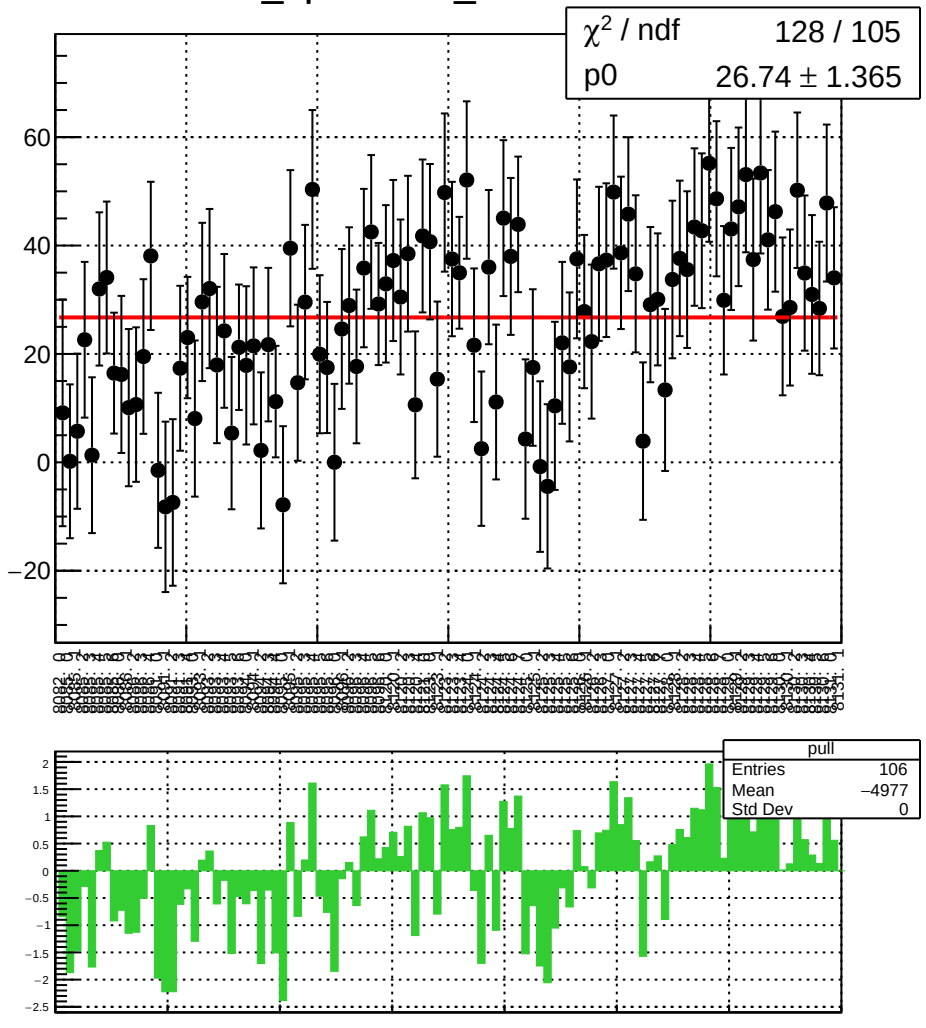

pull1D
Entries 106
Mean −0.00561
Std Dev 1.013

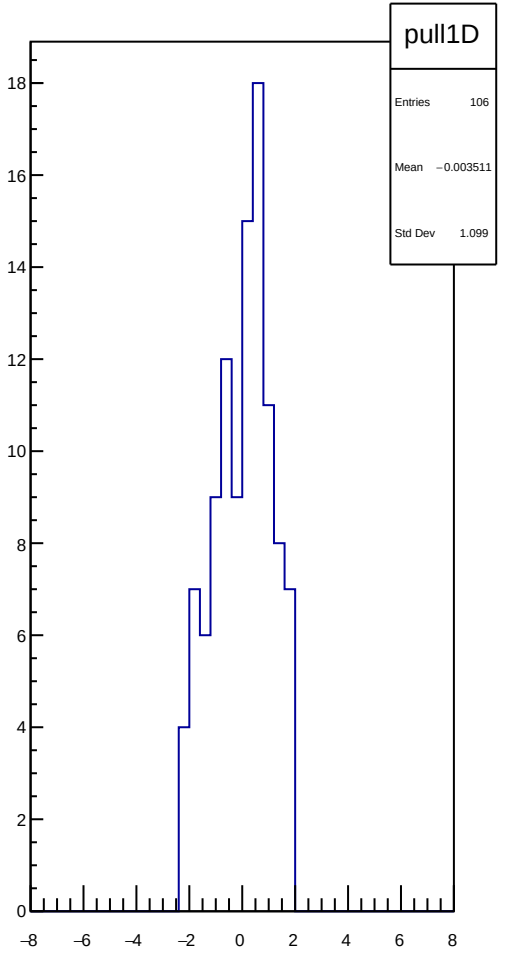

diff_bpm0i02aY_rms vs run
$\chi^2$ / ndf 1742 / 105
p0 1767 ± 1.243
1850
1800
1750
1700
1650
1600
1550
1500
1450

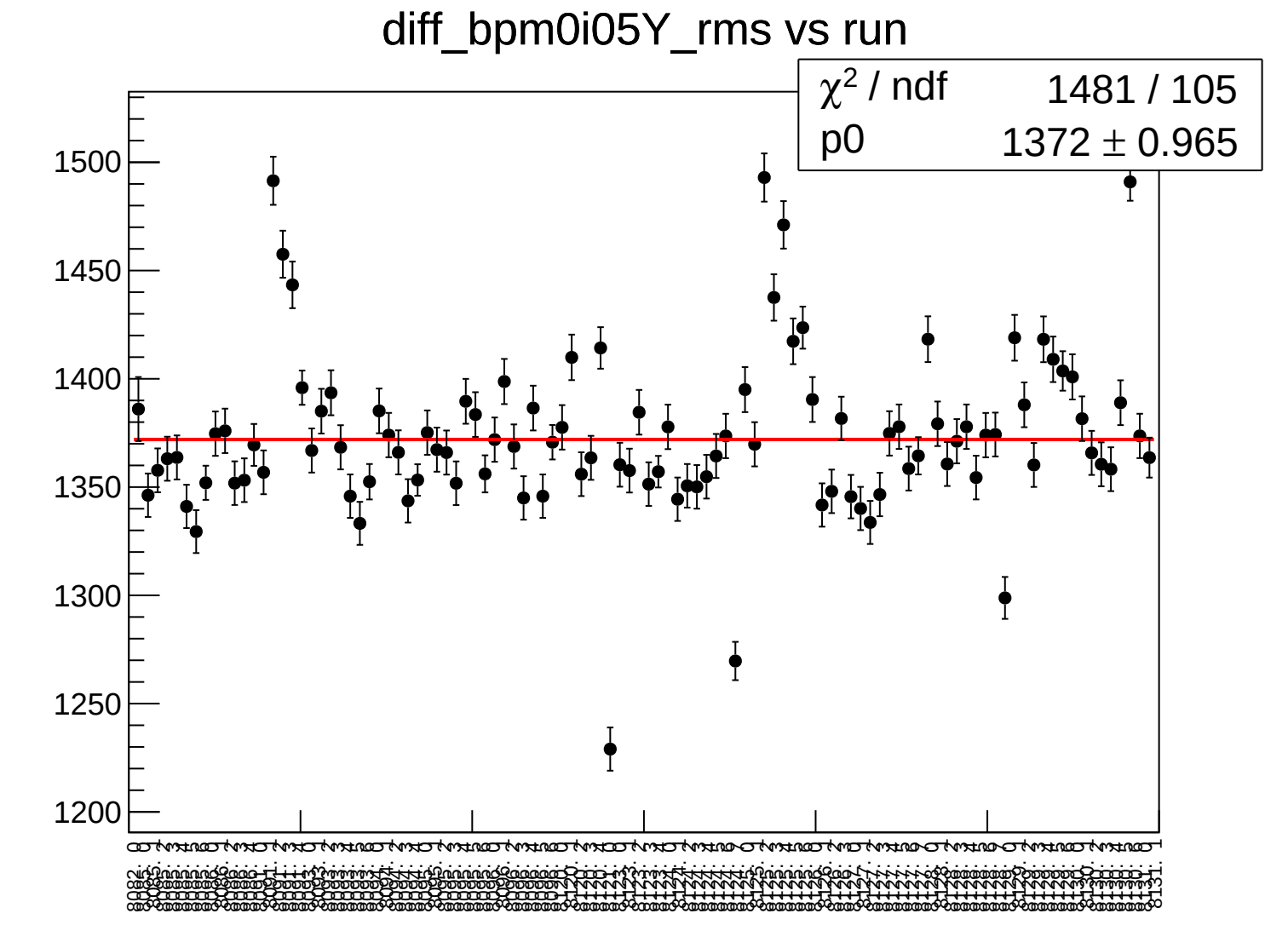

diff_bpm0i05X_mean vs run
χ² / ndf 244.4 / 105
p0 −48.75 ± 1.738
50
0
−50
−100
−150
pull
Entries 106
Mean −283.6
Std Dev 0
4
3
2
1
0
−1
−2
−3

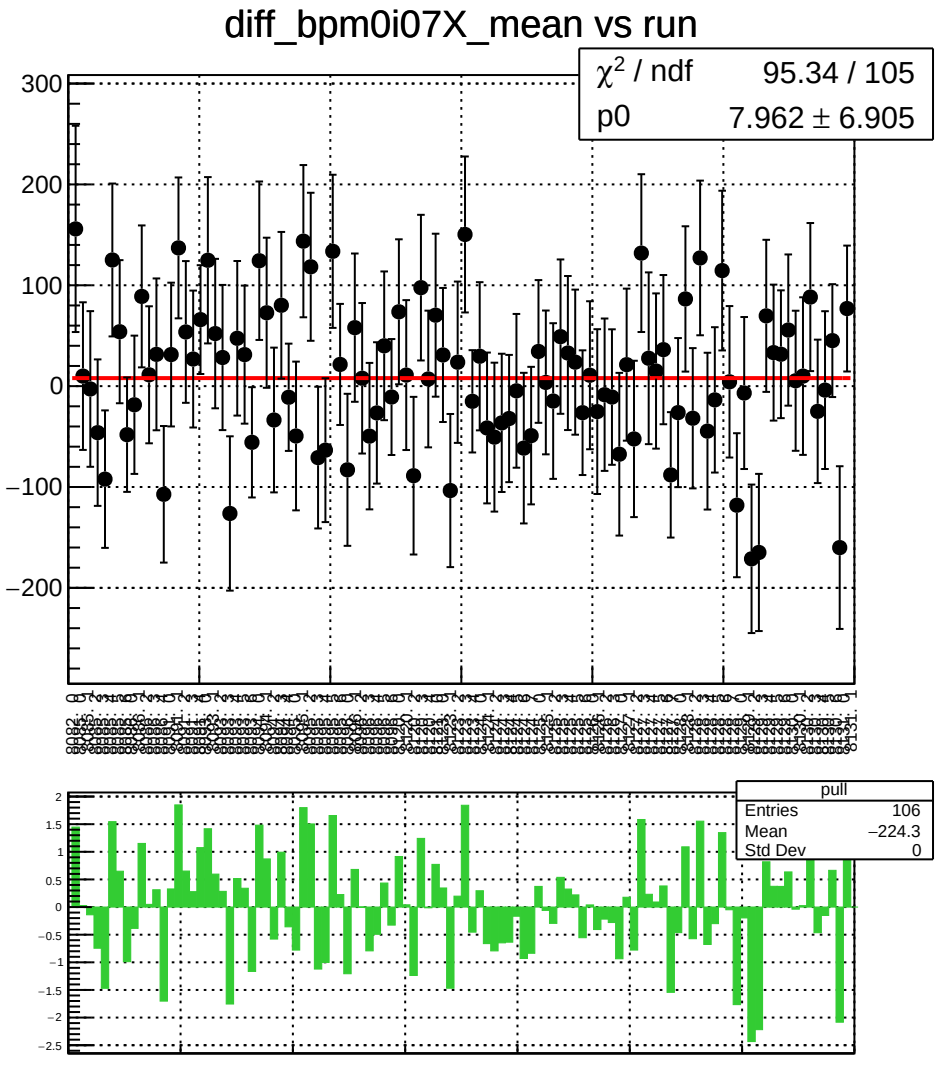

pull1D
Entries 106
Mean −0.0101
Std Dev 1.518
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

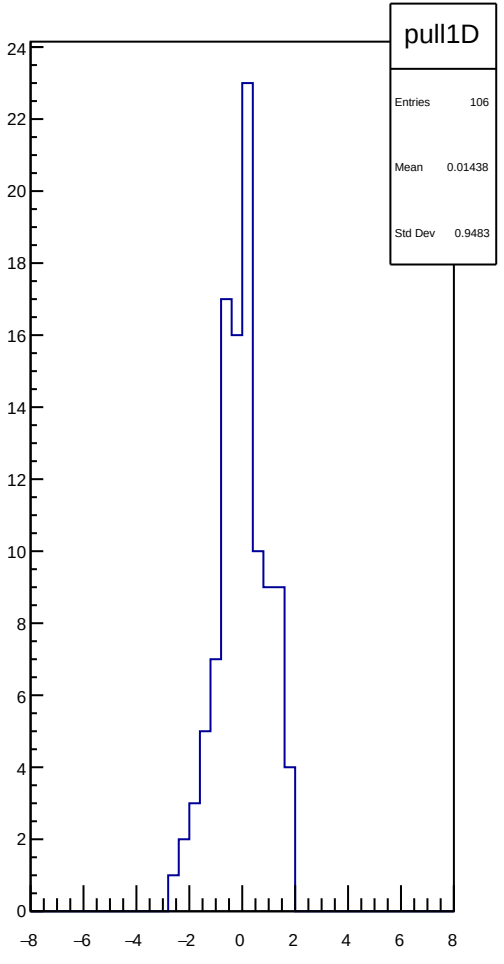

diff_bpm0i05X_rms vs run
χ² / ndf 1329 / 105
p0 1747 ± 1.229
1900
1850
1800
1750
1700
1650
1600
1550
1500

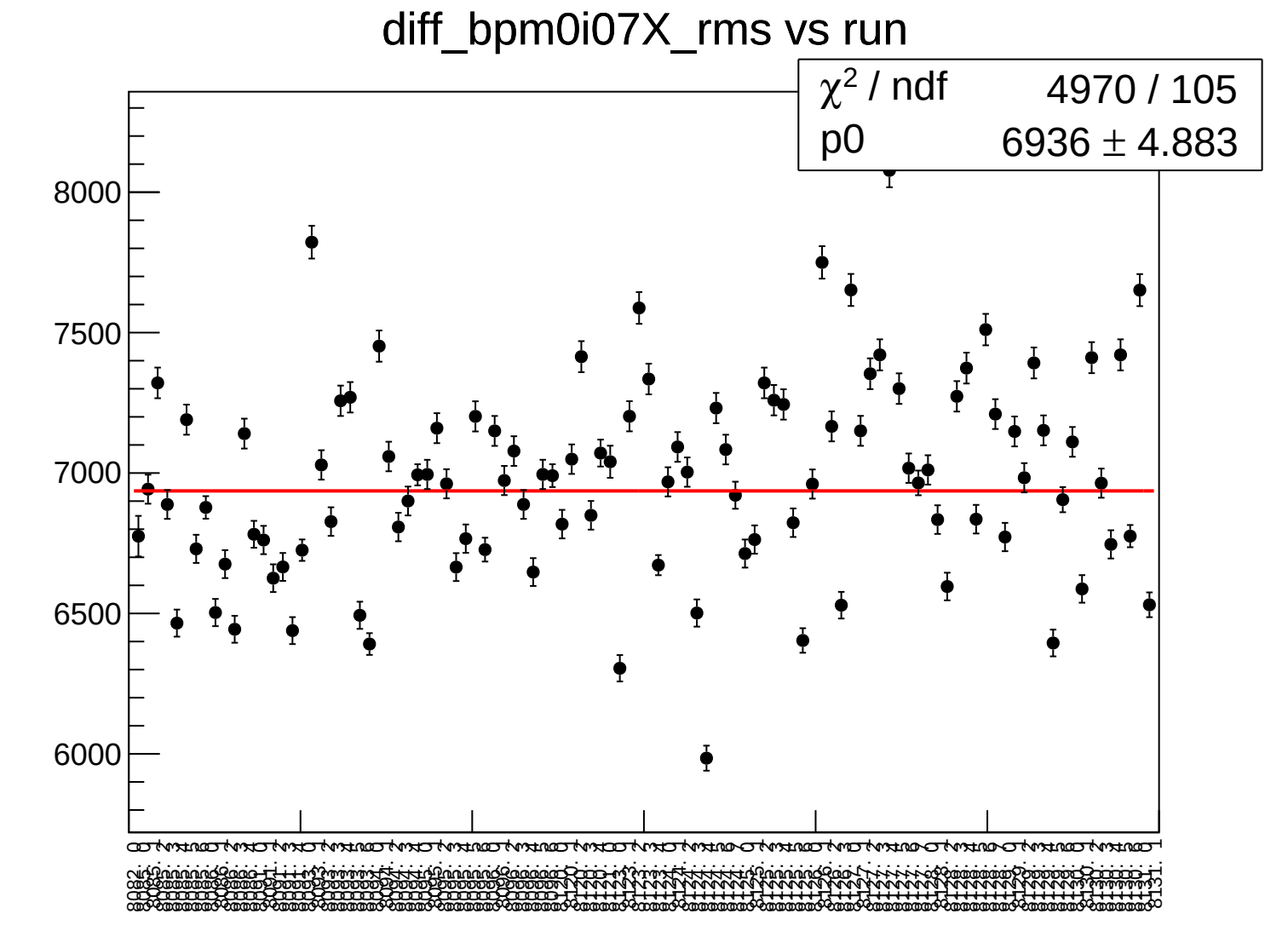

diff_bpm0i05Y_mean vs run
χ² / ndf 128 / 105
p0 26.74 ± 1.365
pull
Entries 106
Mean −4977
Std Dev 0

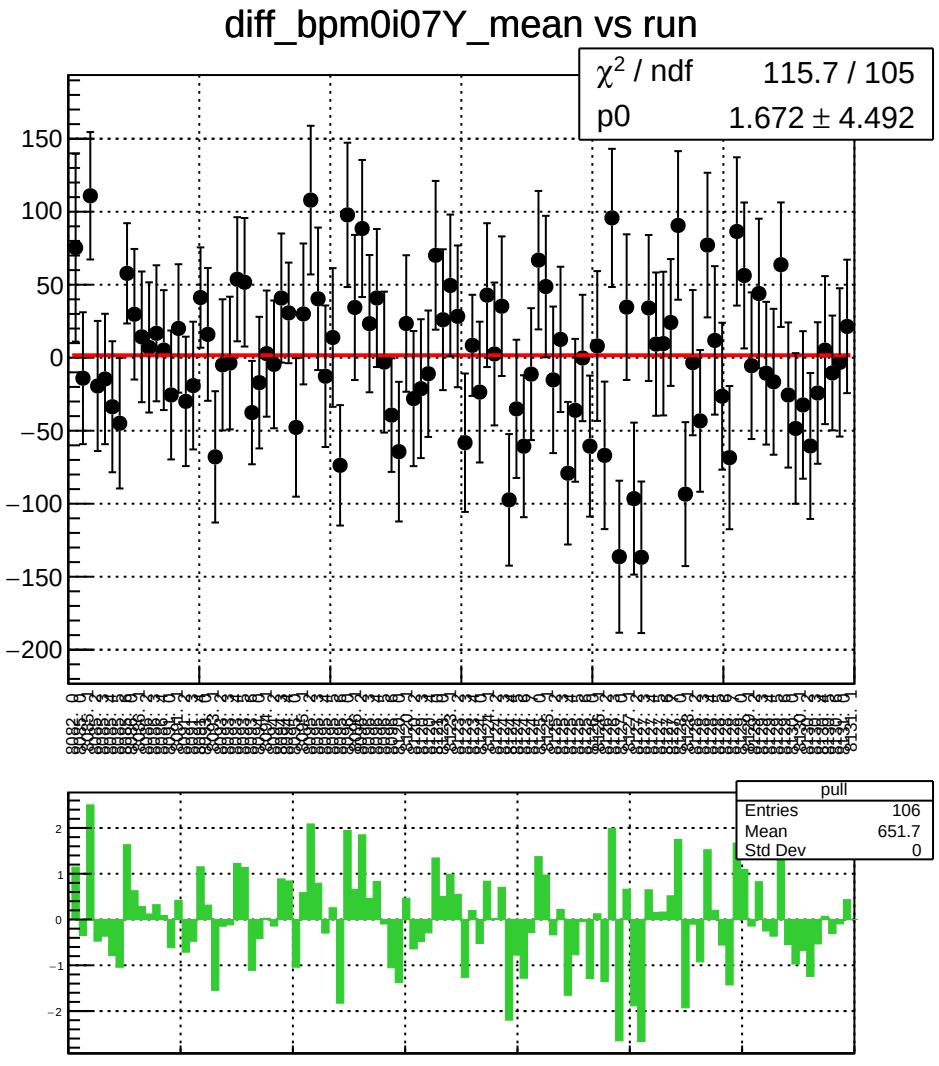

pull1D
Entries 106
Mean −0.003511
Std Dev 1.099

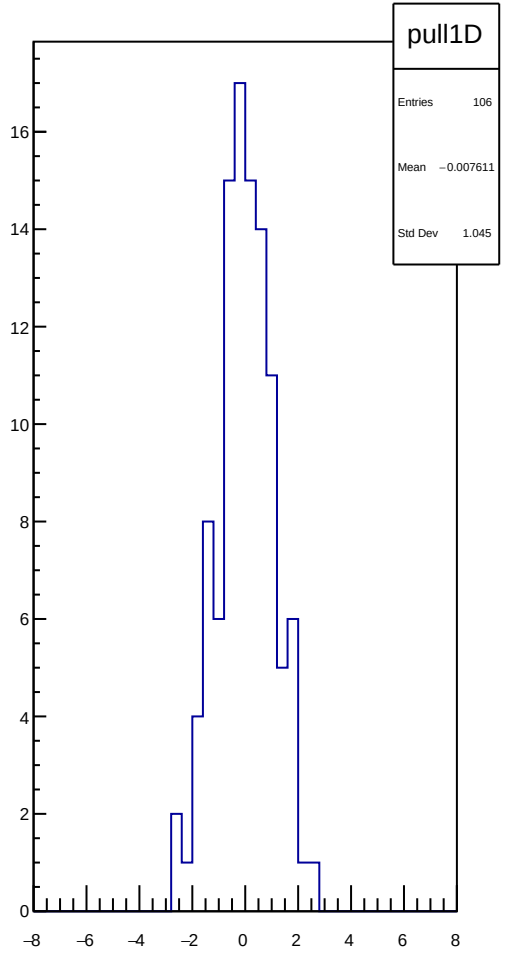

diff_bpm0i05Y_rms vs run
$\chi^2$ / ndf 1481 / 105
p0 1372 ± 0.965
1500
1450
1400
1350
1300
1250
1200

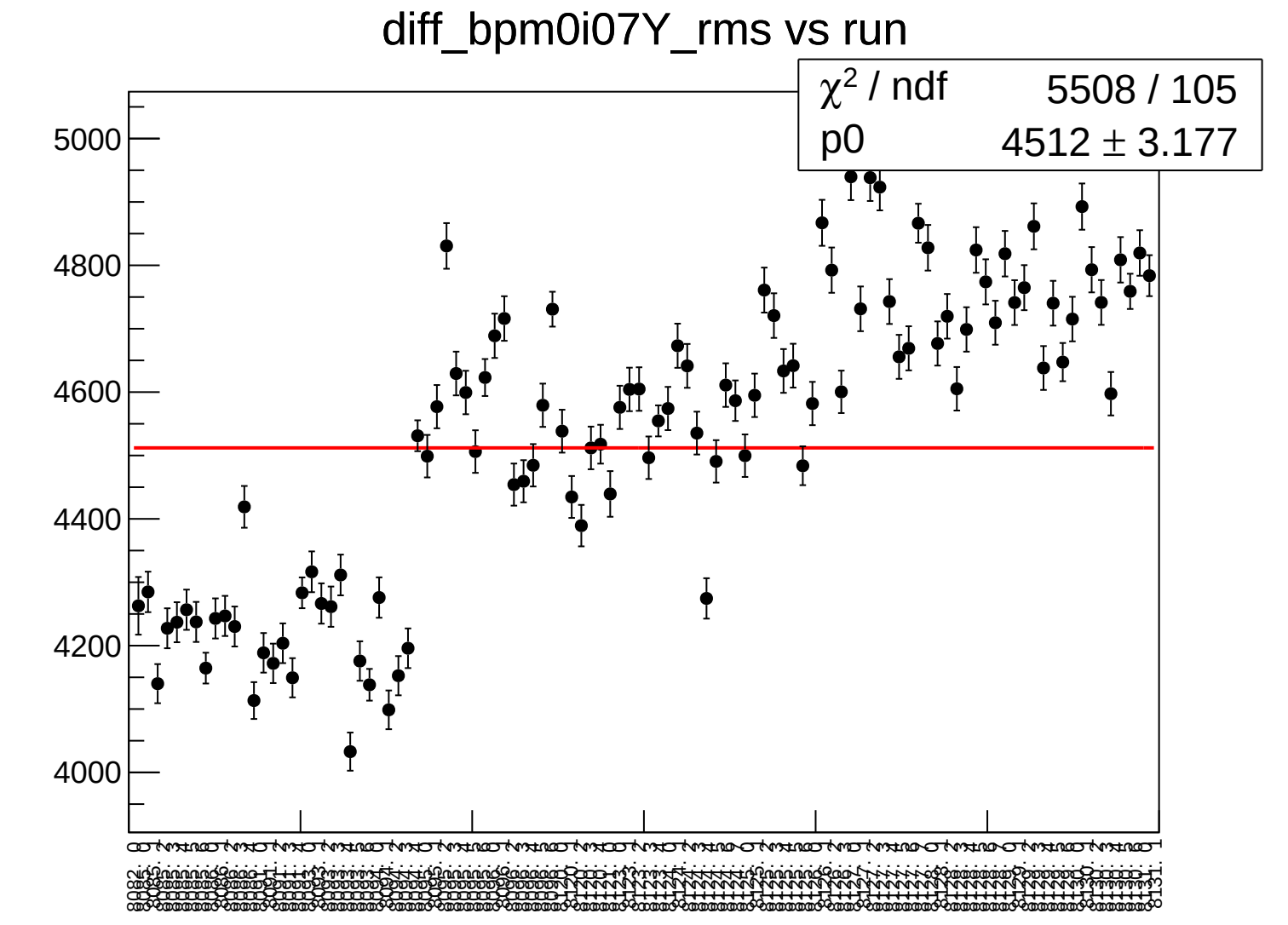

diff_bpm0i07X_mean vs run
χ² / ndf 95.34 / 105
p0 7.962 ± 6.905
pull
Entries 106
Mean −224.3
Std Dev 0

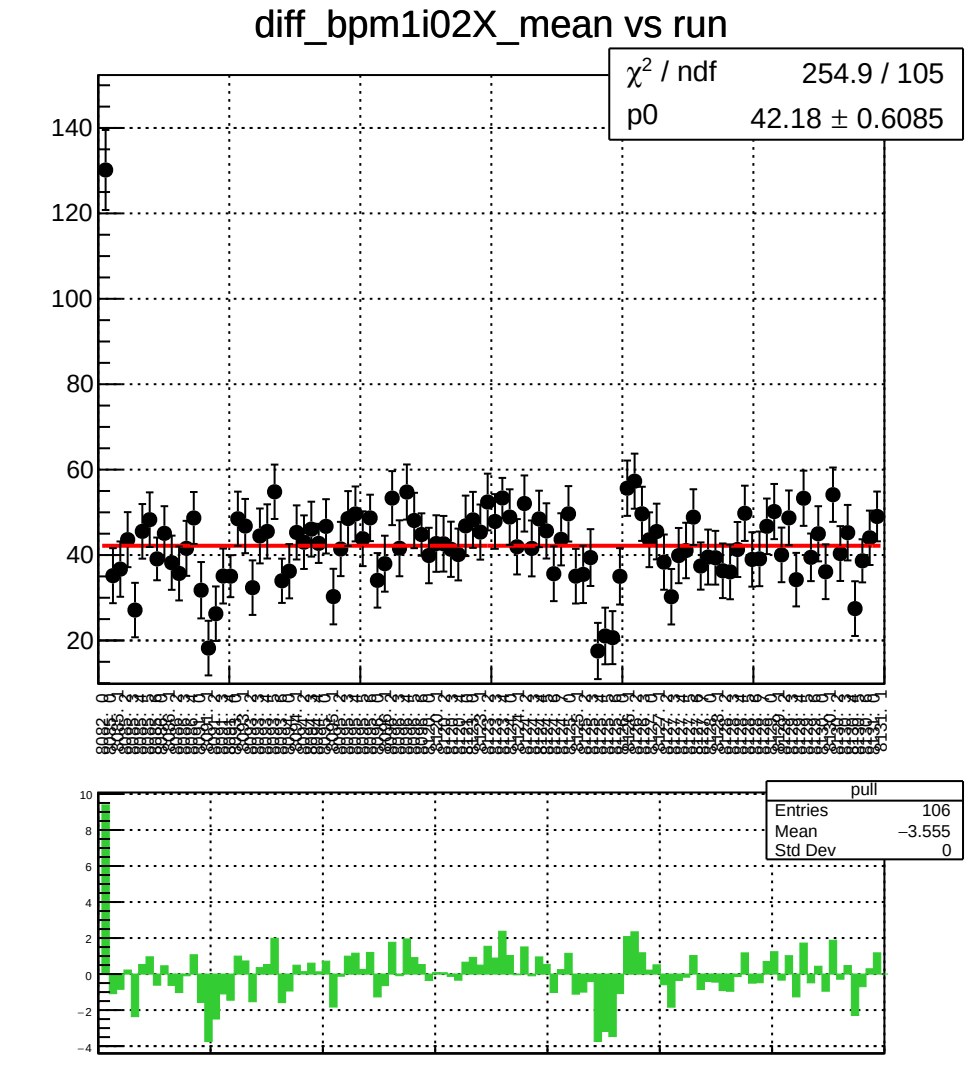

pull1D
Entries 106
Mean 0.01438
Std Dev 0.9483

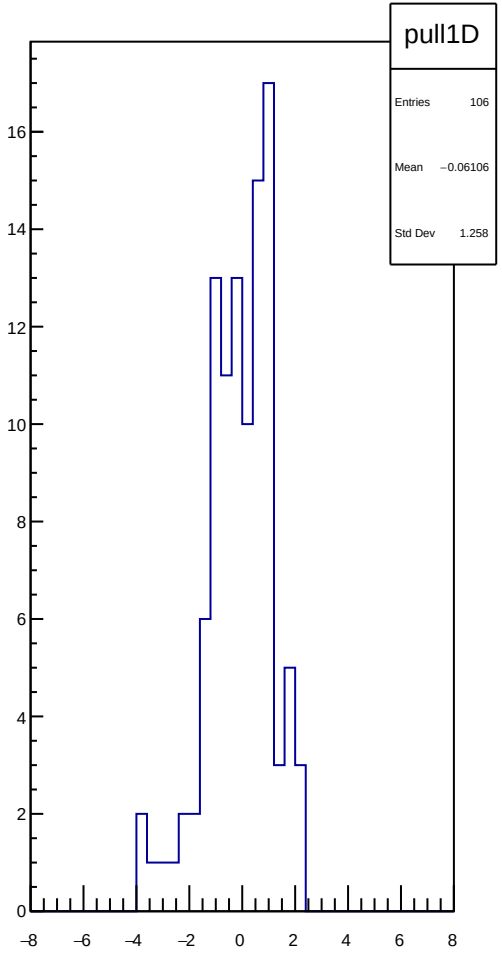

diff_bpm0i07X_rms vs run
χ² / ndf 4970 / 105
p0 6936 ± 4.883
8000
7500
7000
6500
6000

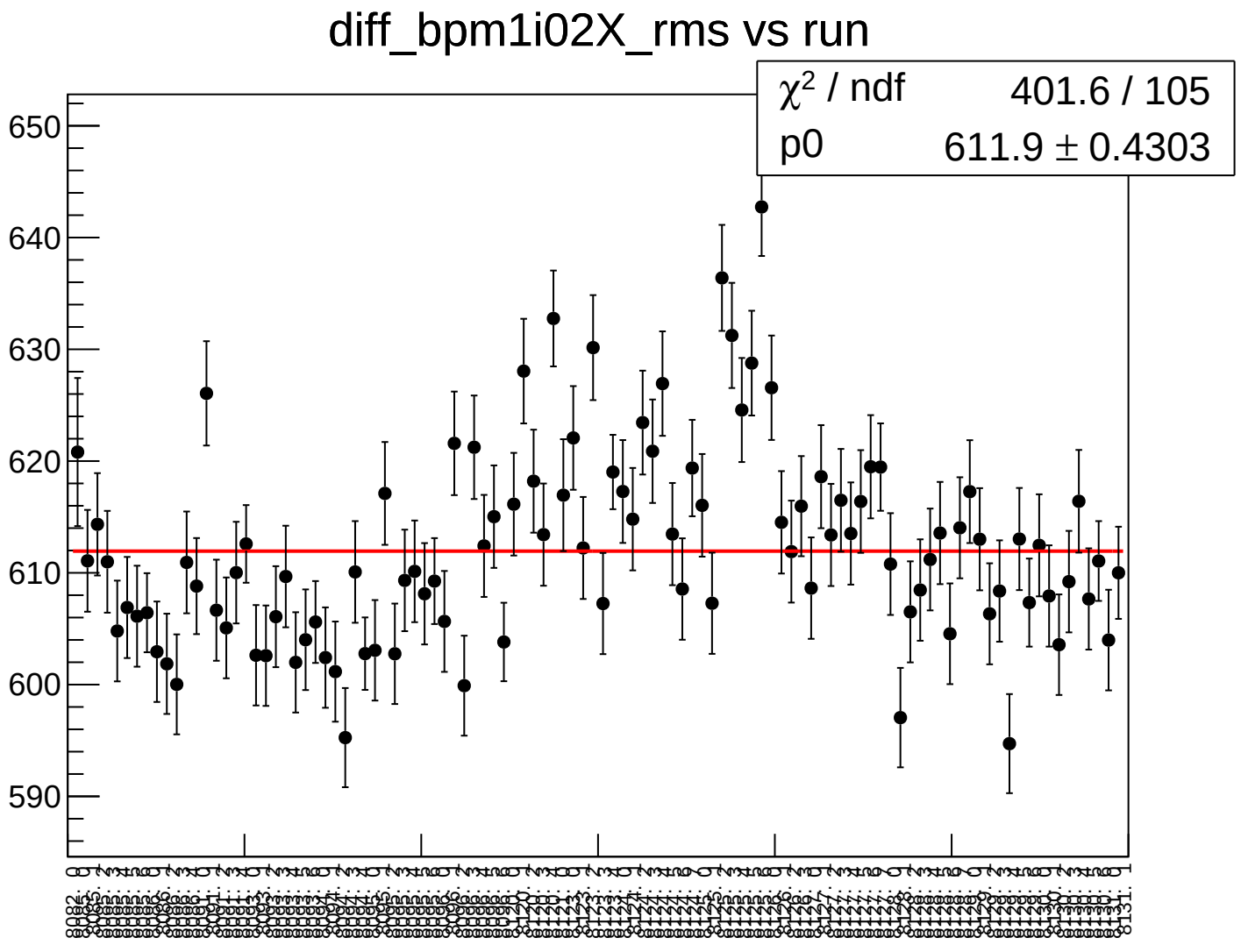

diff_bpm0i07Y_mean vs run
χ² / ndf 115.7 / 105
p0 1.672 ± 4.492
150
100
50
0
−50
−100
−150
−200
pull
Entries 106
Mean 651.7
Std Dev 0
2
1
0
−1
−2

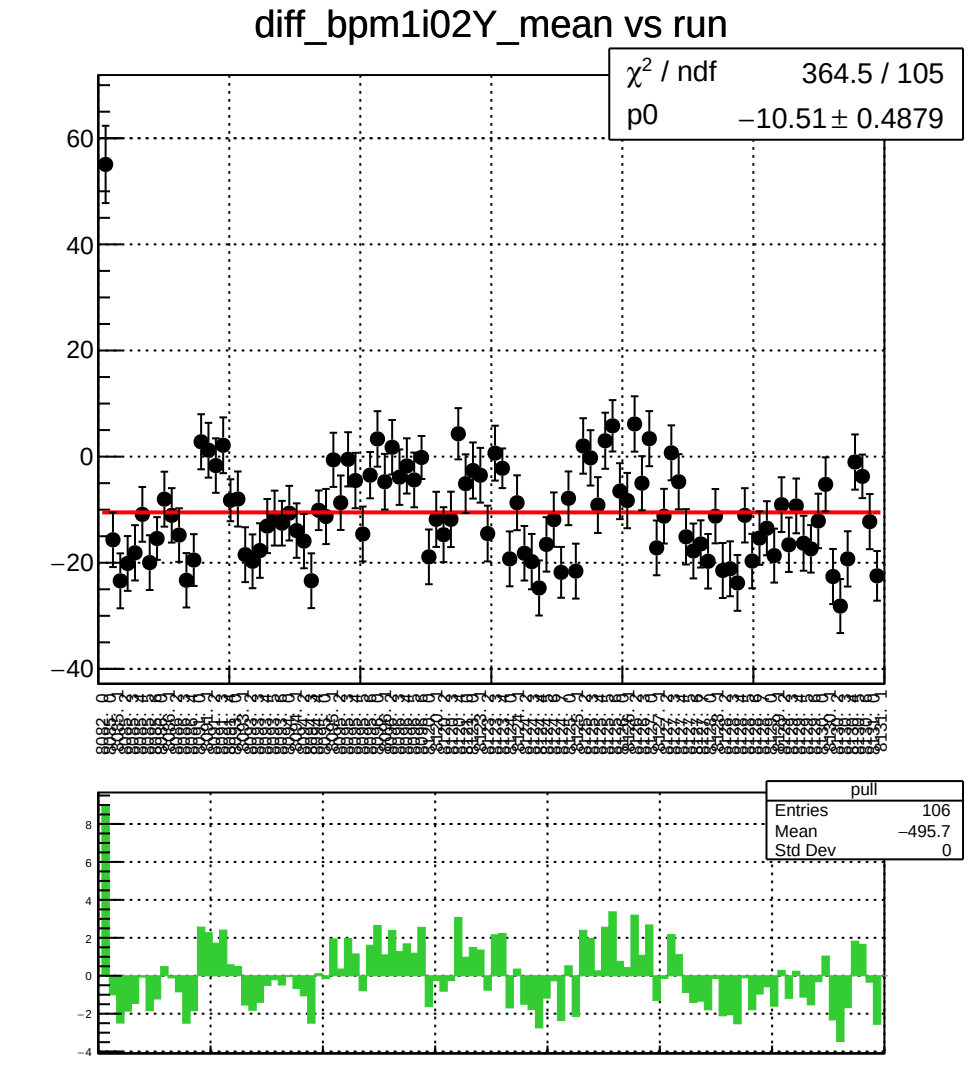

pull1D
Entries 106
Mean −0.007611
Std Dev 1.045
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

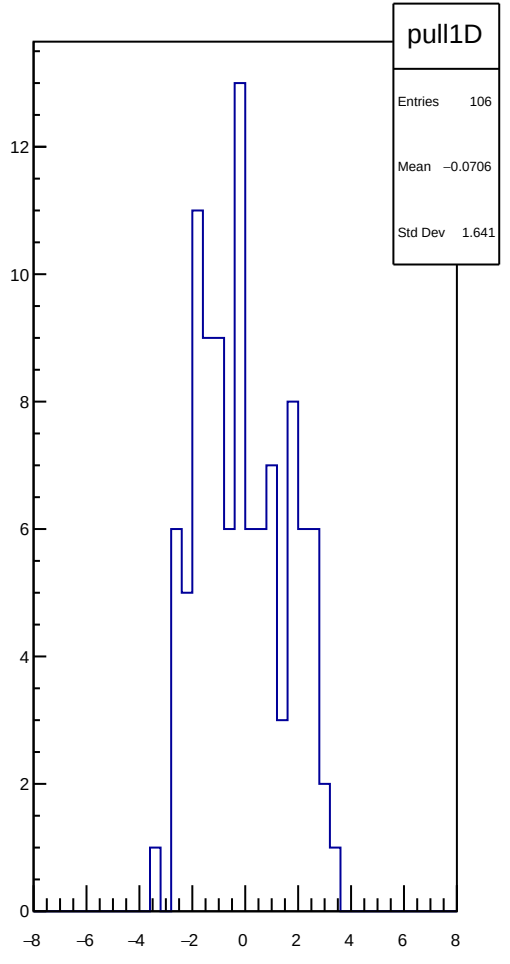

diff_bpm0i07Y_rms vs run
χ² / ndf 5508 / 105
p0 4512 ± 3.177
5000
4800
4600
4400
4200
4000

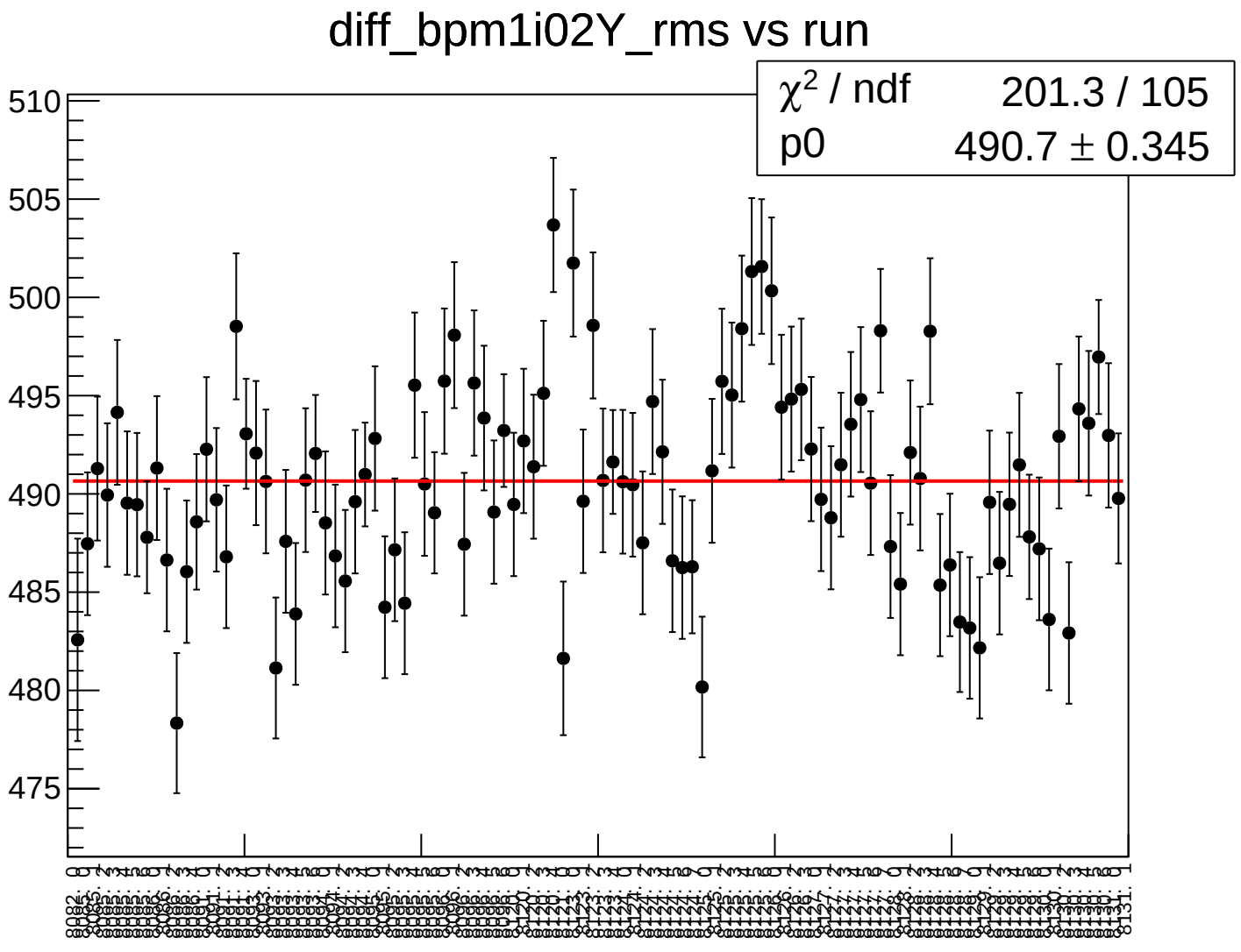

diff_bpm1i02X_mean vs run
χ² / ndf 254.9 / 105
p0 42.18 ± 0.6085
pull
Entries 106
Mean −3.555
Std Dev 0

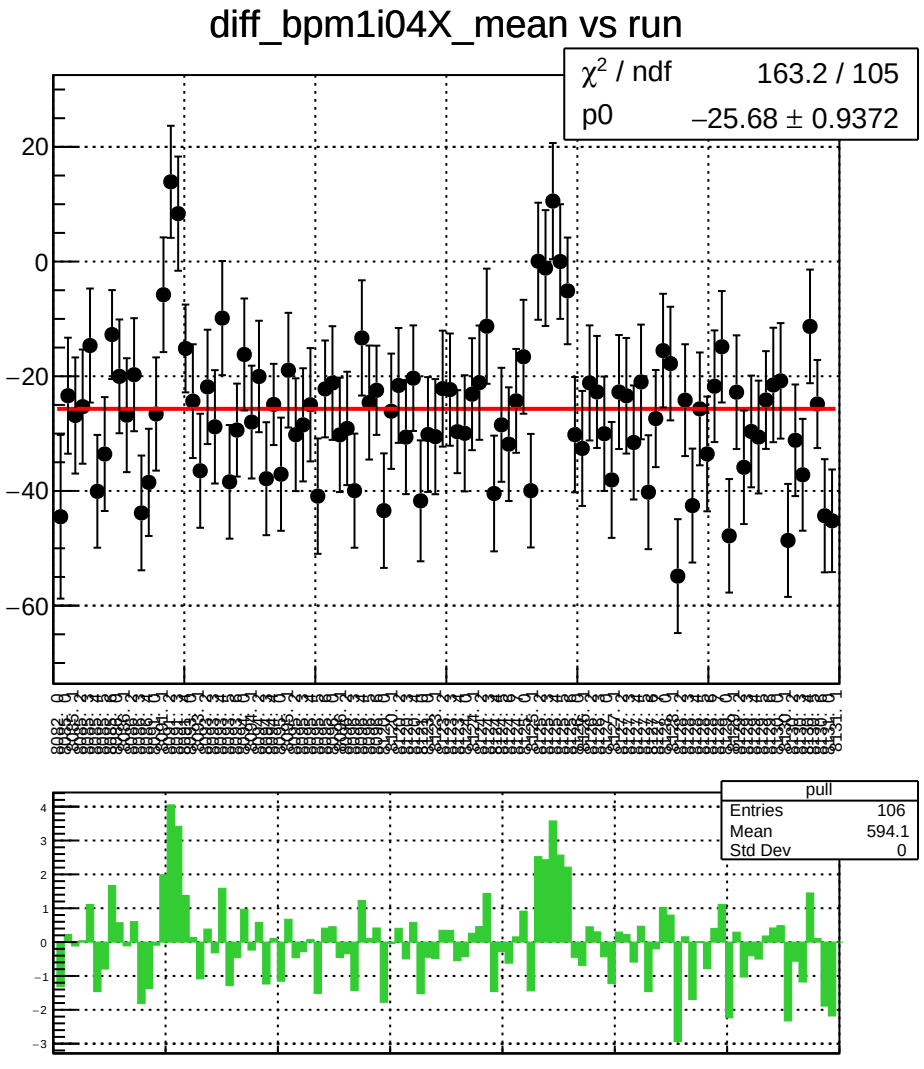

pull1D
Entries 106
Mean −0.06106
Std Dev 1.258

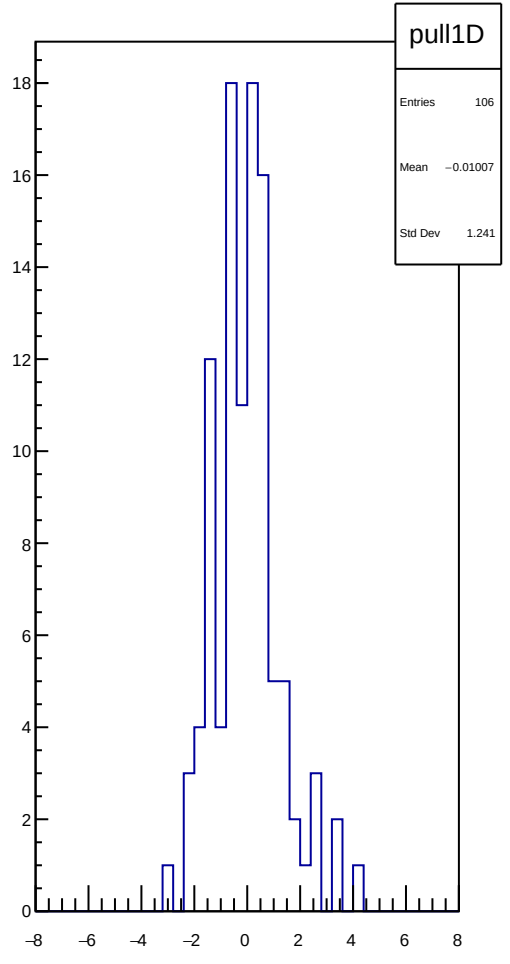

diff_bpm1i02X_rms vs run
χ² / ndf 401.6 / 105
p0 611.9 ± 0.4303
650
640
630
620
610
600
590

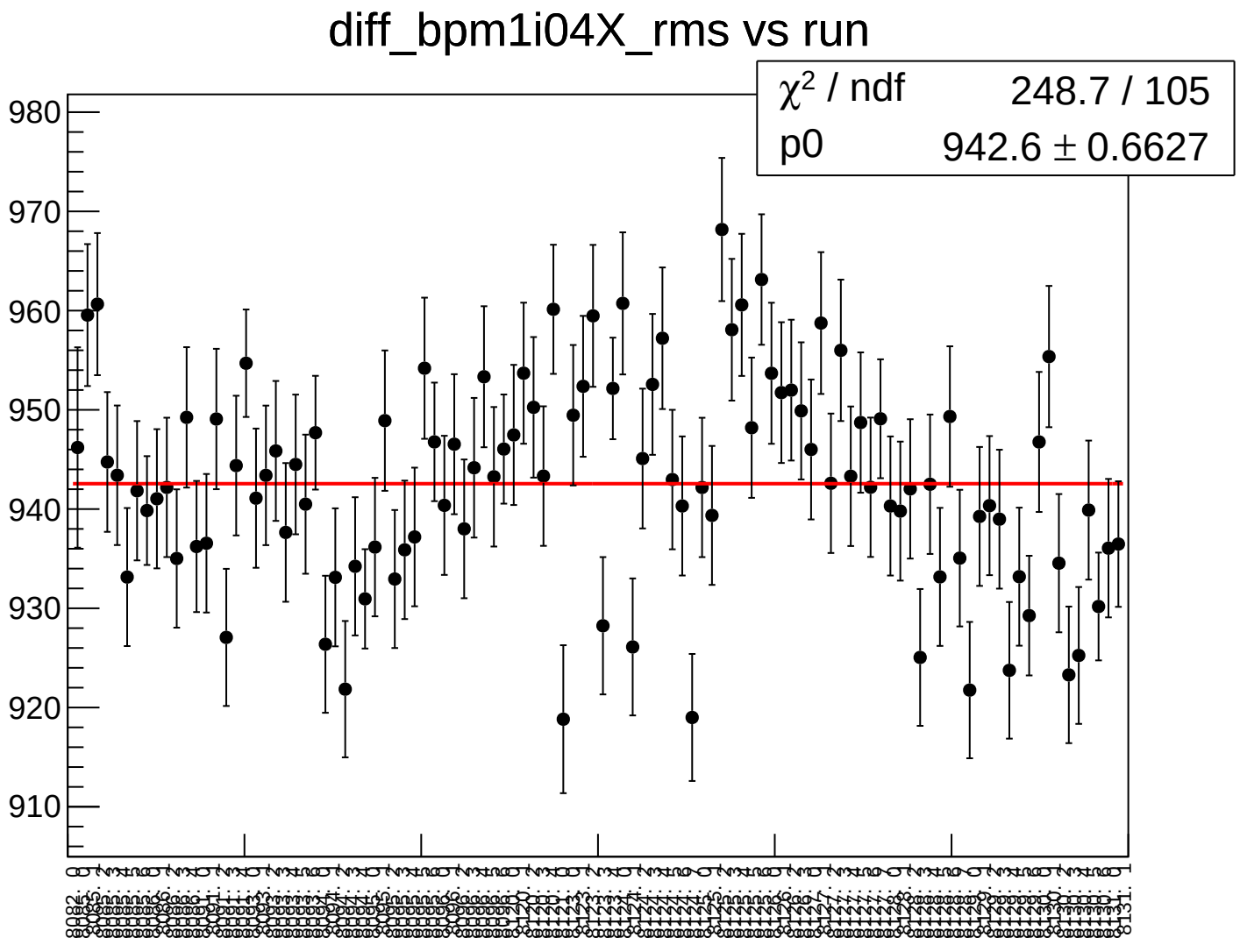

diff_bpm1i02Y_mean vs run
χ² / ndf 364.5 / 105
p0 −10.51 ± 0.4879
60
40
20
0
−20
−40
pull
Entries 106
Mean −495.7
Std Dev 0
8
6
4
2
0
−2
−4

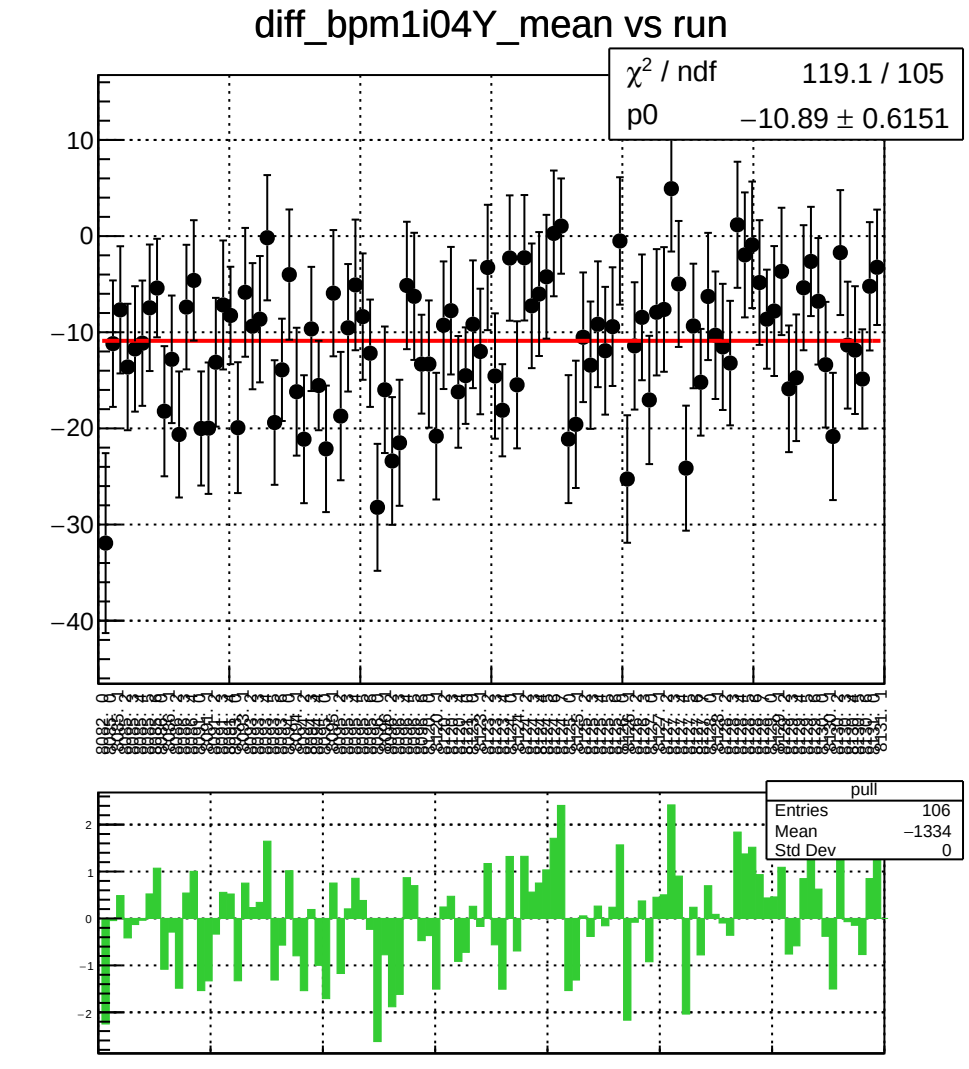

pull1D
Entries 106
Mean −0.0706
Std Dev 1.641
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

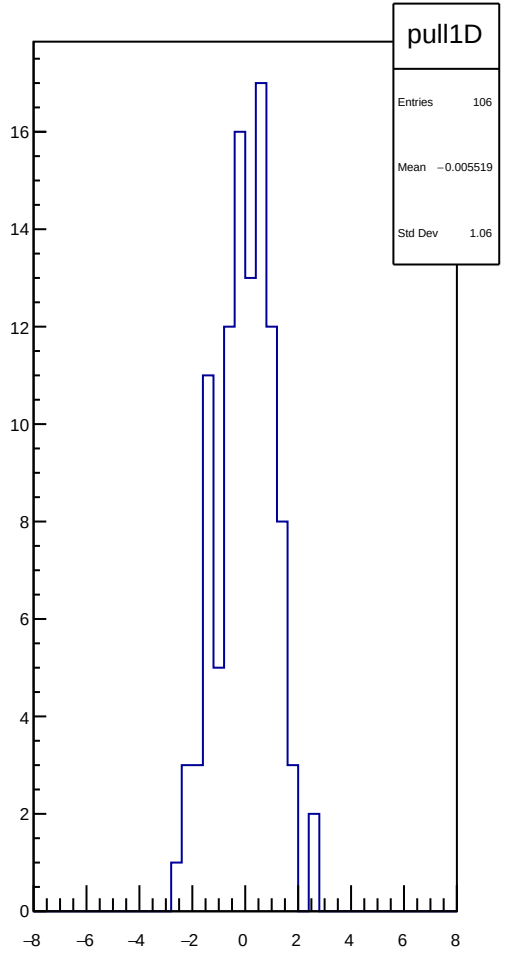

diff_bpm1i02Y_rms vs run
χ² / ndf 201.3 / 105
p0 490.7 ± 0.345
510
505
500
495
490
485
480
475

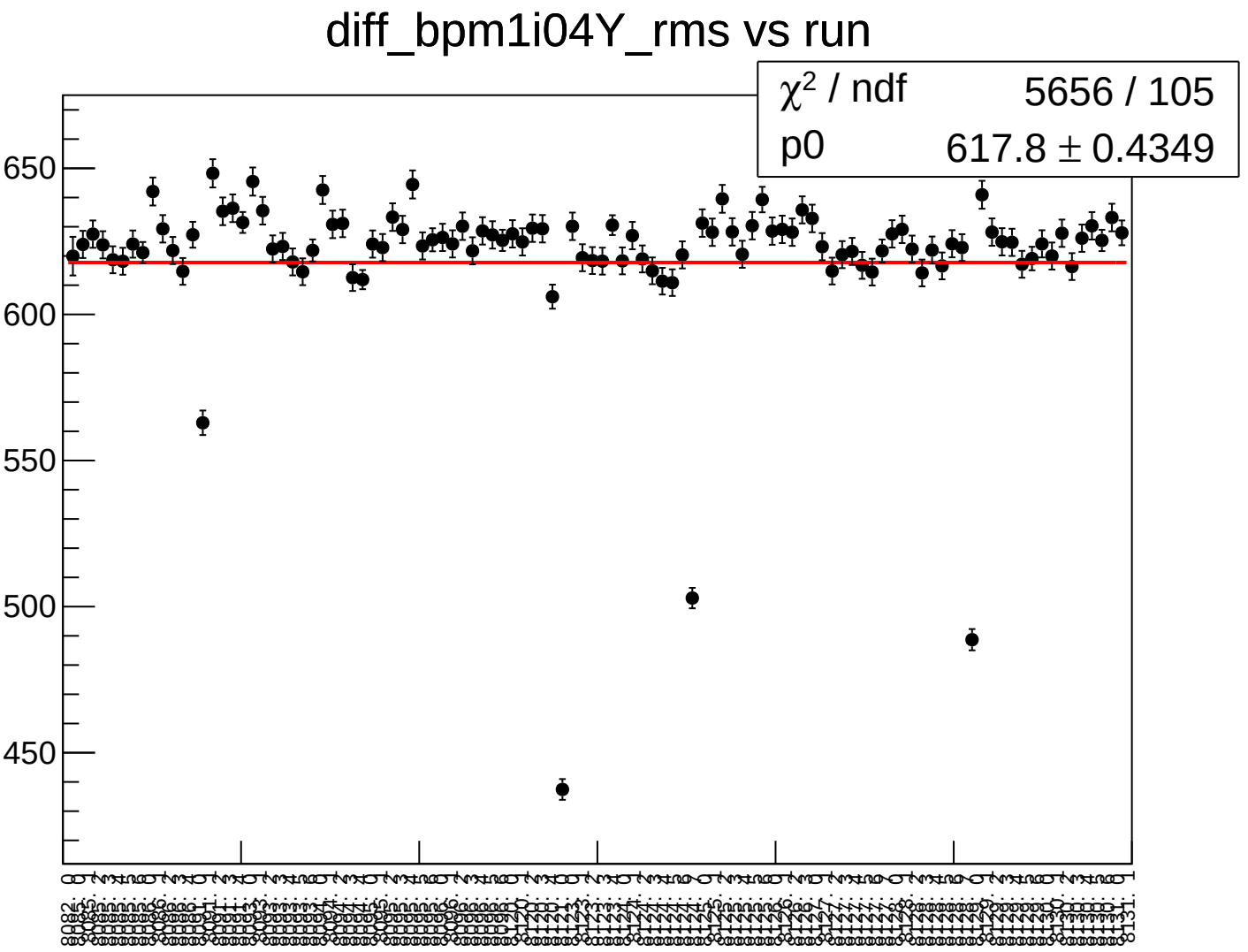

diff_bpm1i04X_mean vs run
χ² / ndf 163.2 / 105
p0 −25.68 ± 0.9372
20
0
−20
−40
−60
pull
Entries 106
Mean 594.1
Std Dev 0
4
3
2
1
0
−1
−2
−3

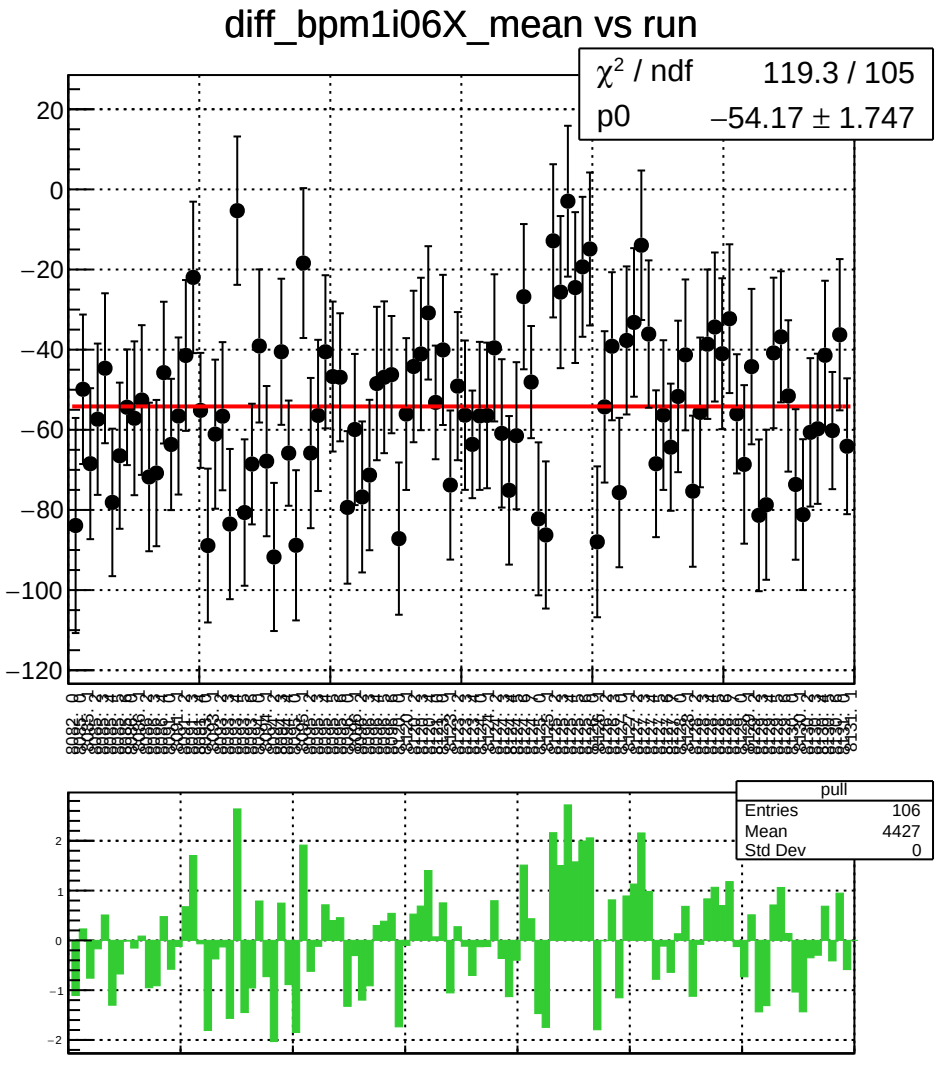

pull1D
Entries 106
Mean −0.01007
Std Dev 1.241
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

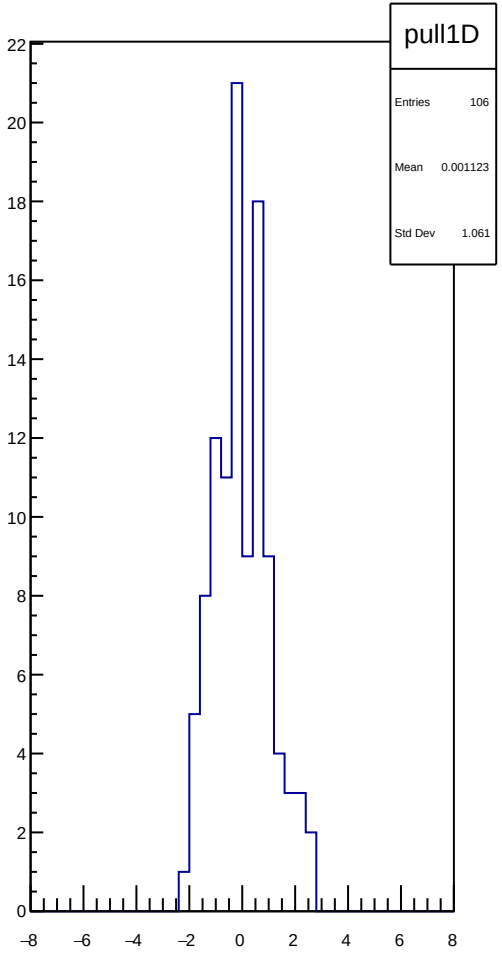

diff_bpm1i04X_rms vs run
χ² / ndf 248.7 / 105
p0 942.6 ± 0.6627
980
970
960
950
940
930
920
910

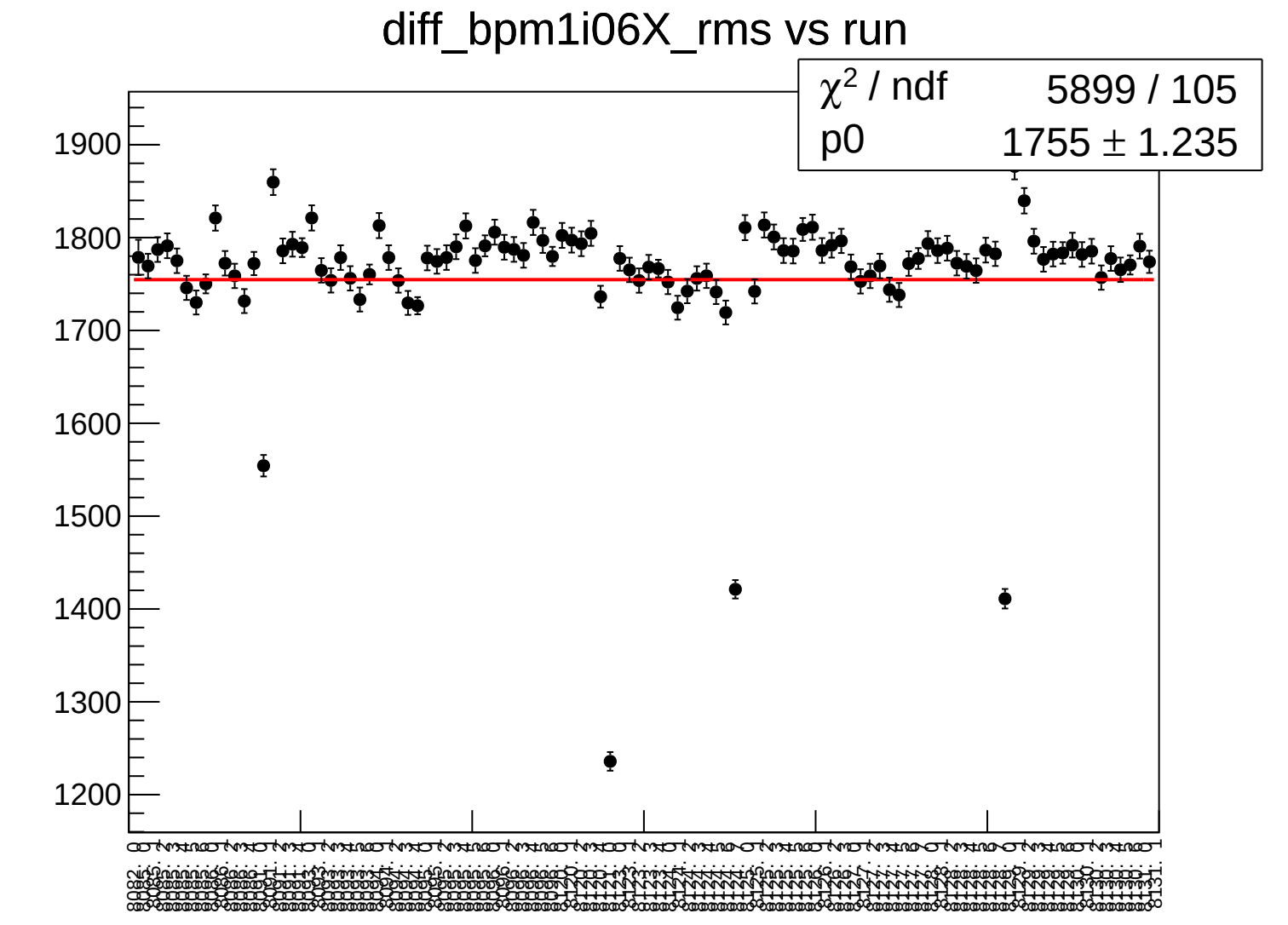

diff_bpm1i04Y_mean vs run
χ² / ndf 119.1 / 105
p0 −10.89 ± 0.6151
pull
Entries 106
Mean −1334
Std Dev 0

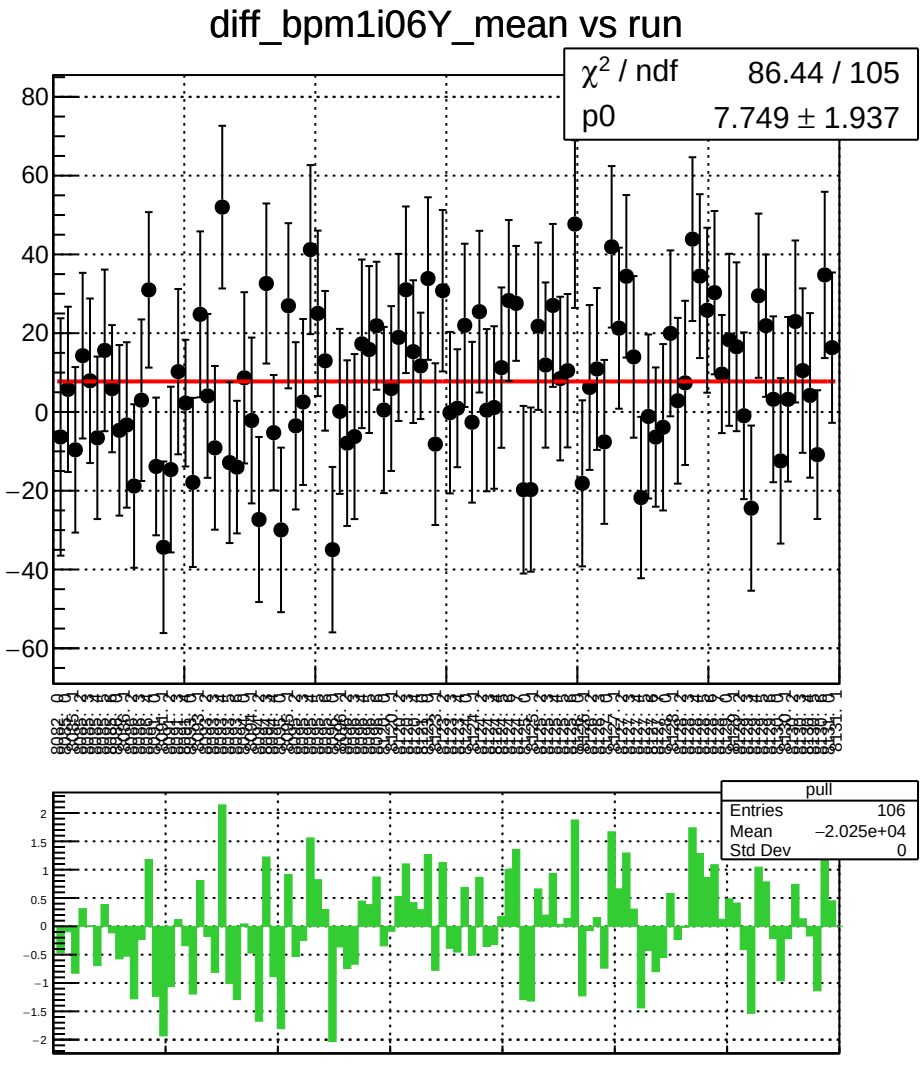

pull1D
Entries 106
Mean −0.005519
Std Dev 1.06

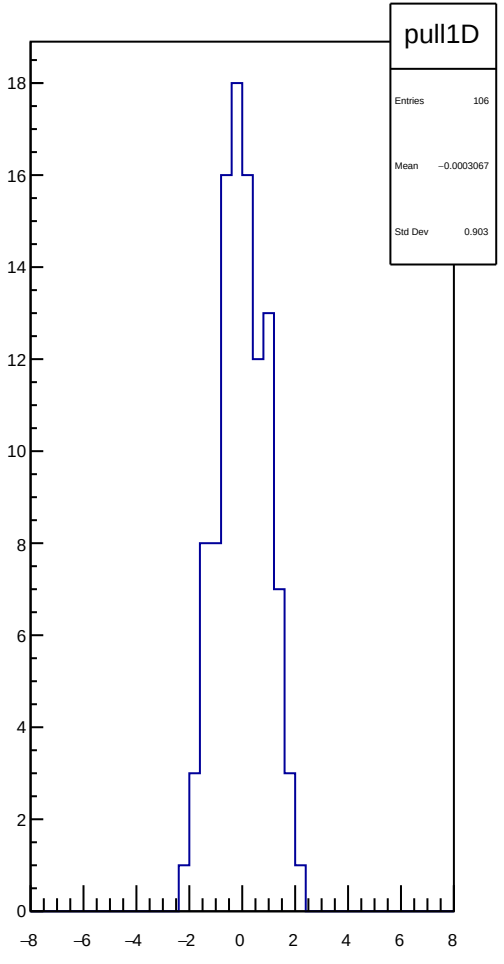

diff_bpm1i04Y_rms vs run
χ² / ndf 5656 / 105
p0 617.8 ± 0.4349
650
600
550
500
450

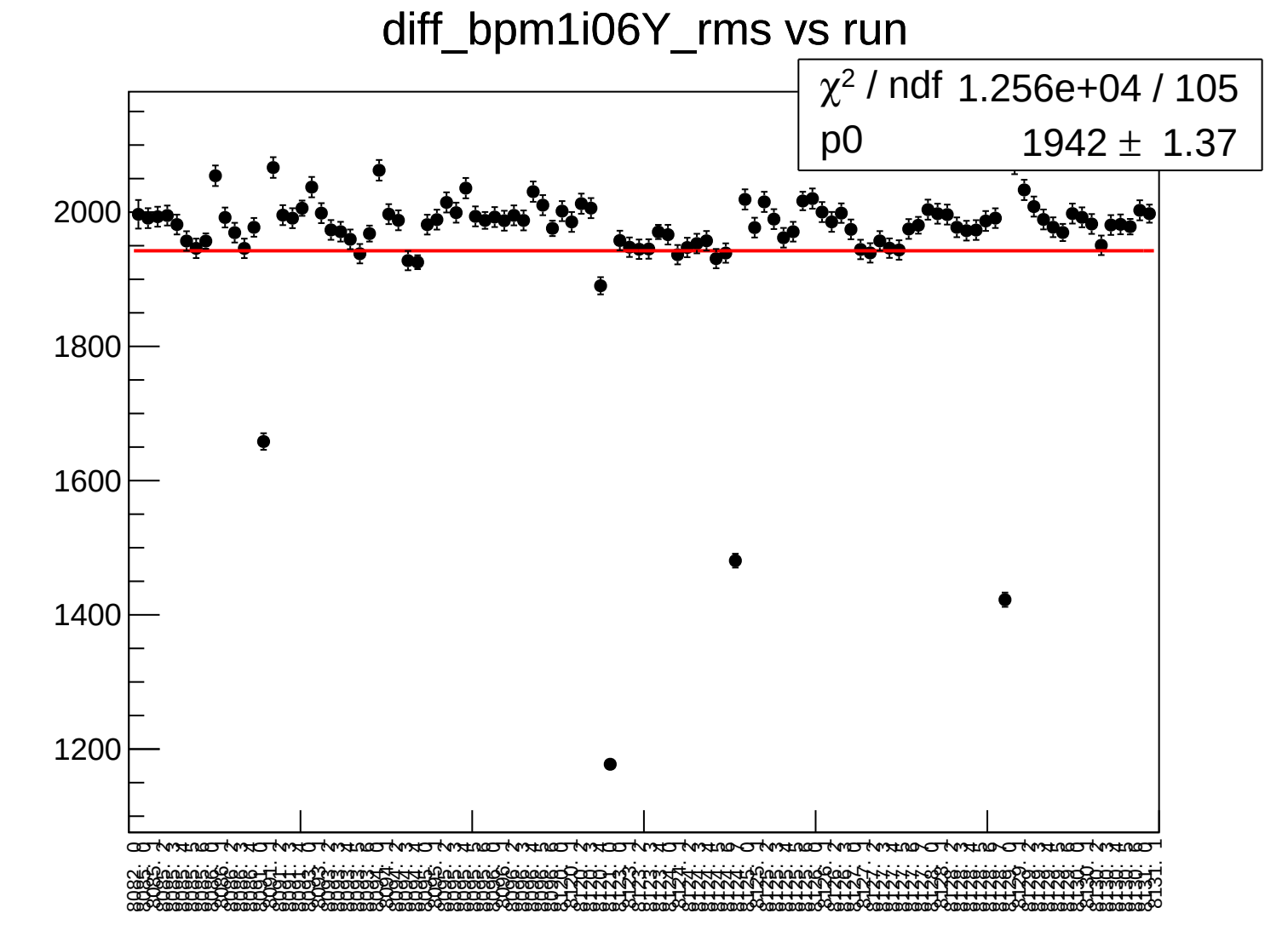

diff_bpm1i06X_mean vs run
χ² / ndf 119.3 / 105
p0 −54.17 ± 1.747
pull
Entries 106
Mean 4427
Std Dev 0

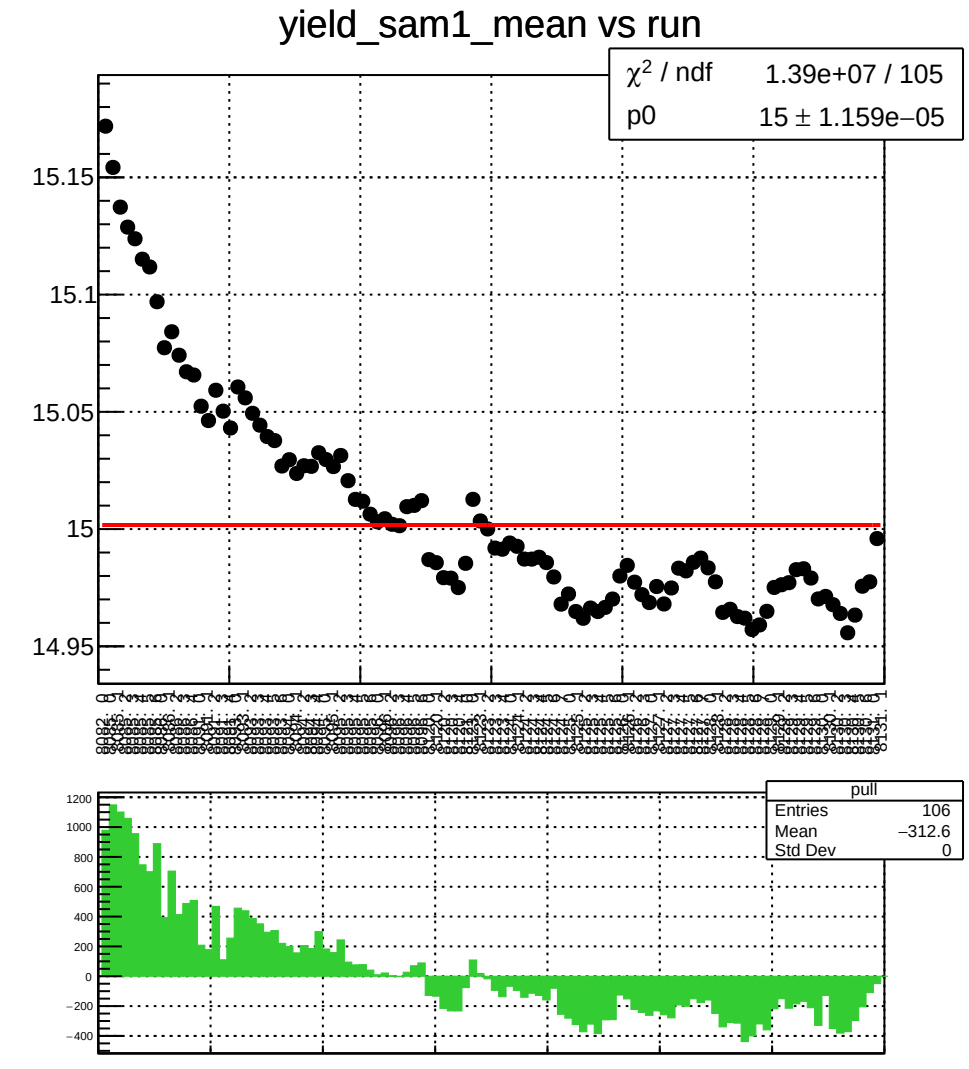

pull1D
Entries 106
Mean 0.001123
Std Dev 1.061

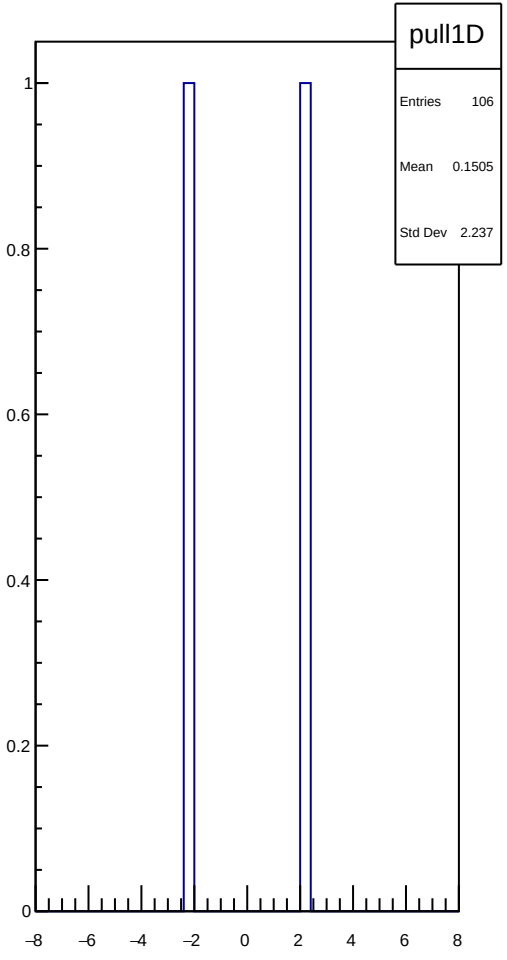

diff_bpm1i06X_rms vs run
$\chi^2$ / ndf 5899 / 105
p0 1755 ± 1.235
1900
1800
1700
1600
1500
1400
1300
1200

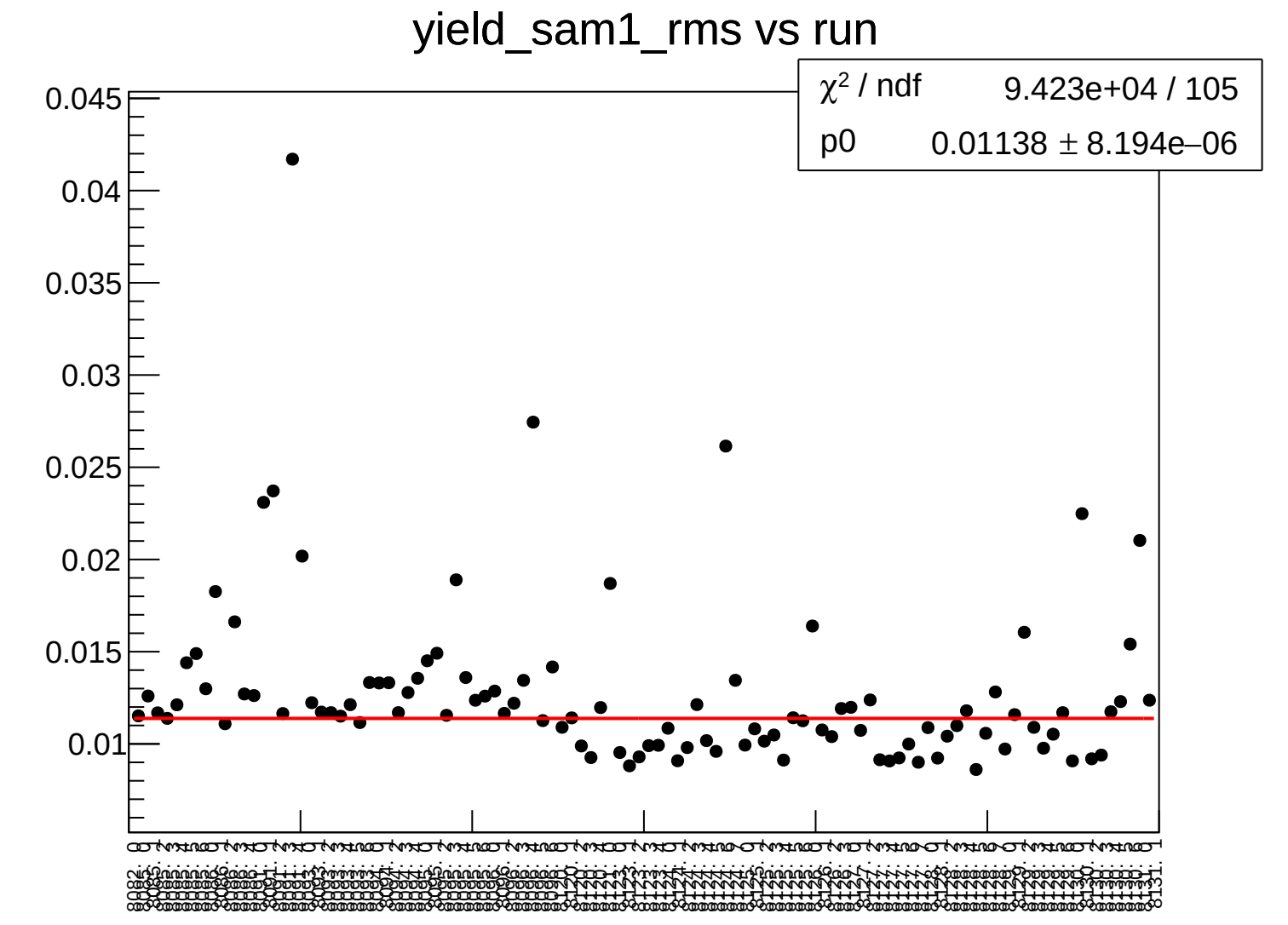

diff_bpm1i06Y_mean vs run
χ² / ndf 86.44 / 105
p0 7.749 ± 1.937
pull
Entries 106
Mean −2.025e+04
Std Dev 0

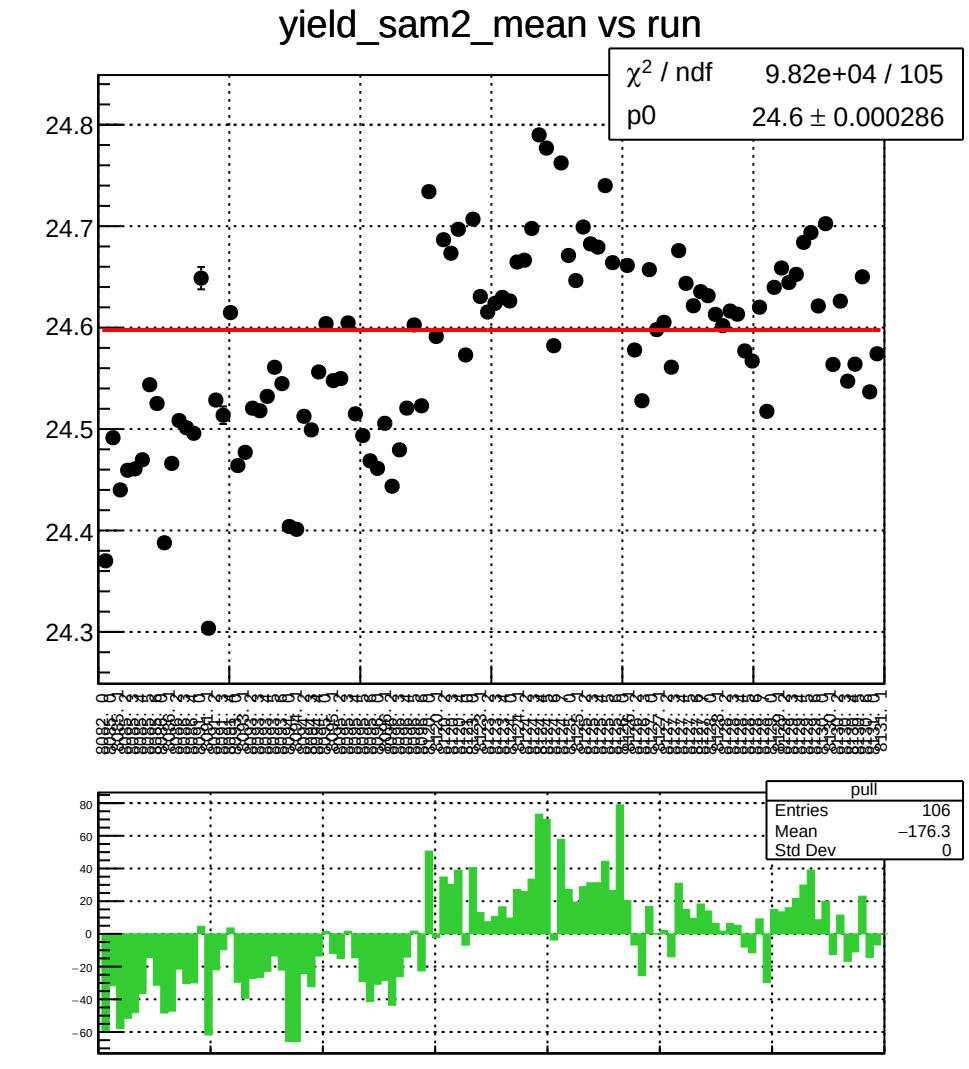

pull1D
Entries 106
Mean −0.0003067
Std Dev 0.903

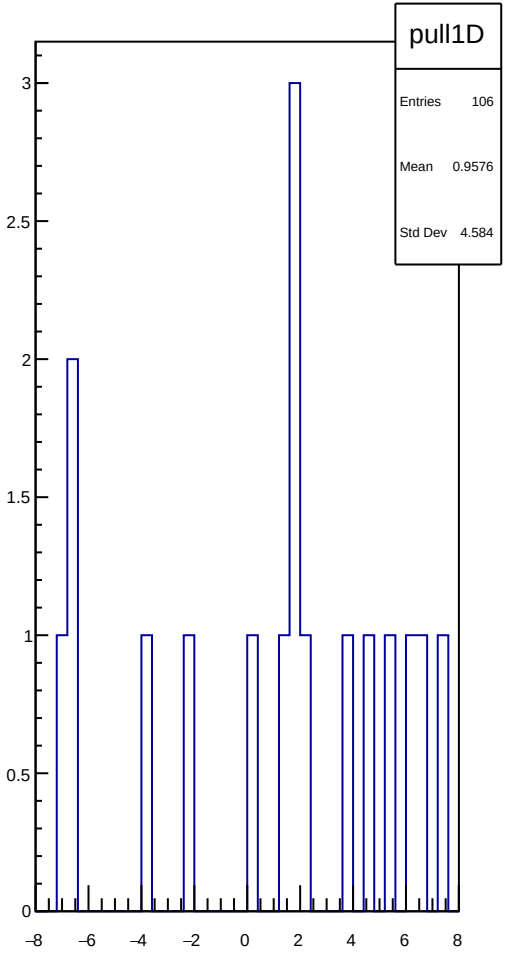

diff_bpm1i06Y_rms vs run
χ² / ndf 1.256e+04 / 105
p0 1942 ± 1.37
2000
1800
1600
1400
1200

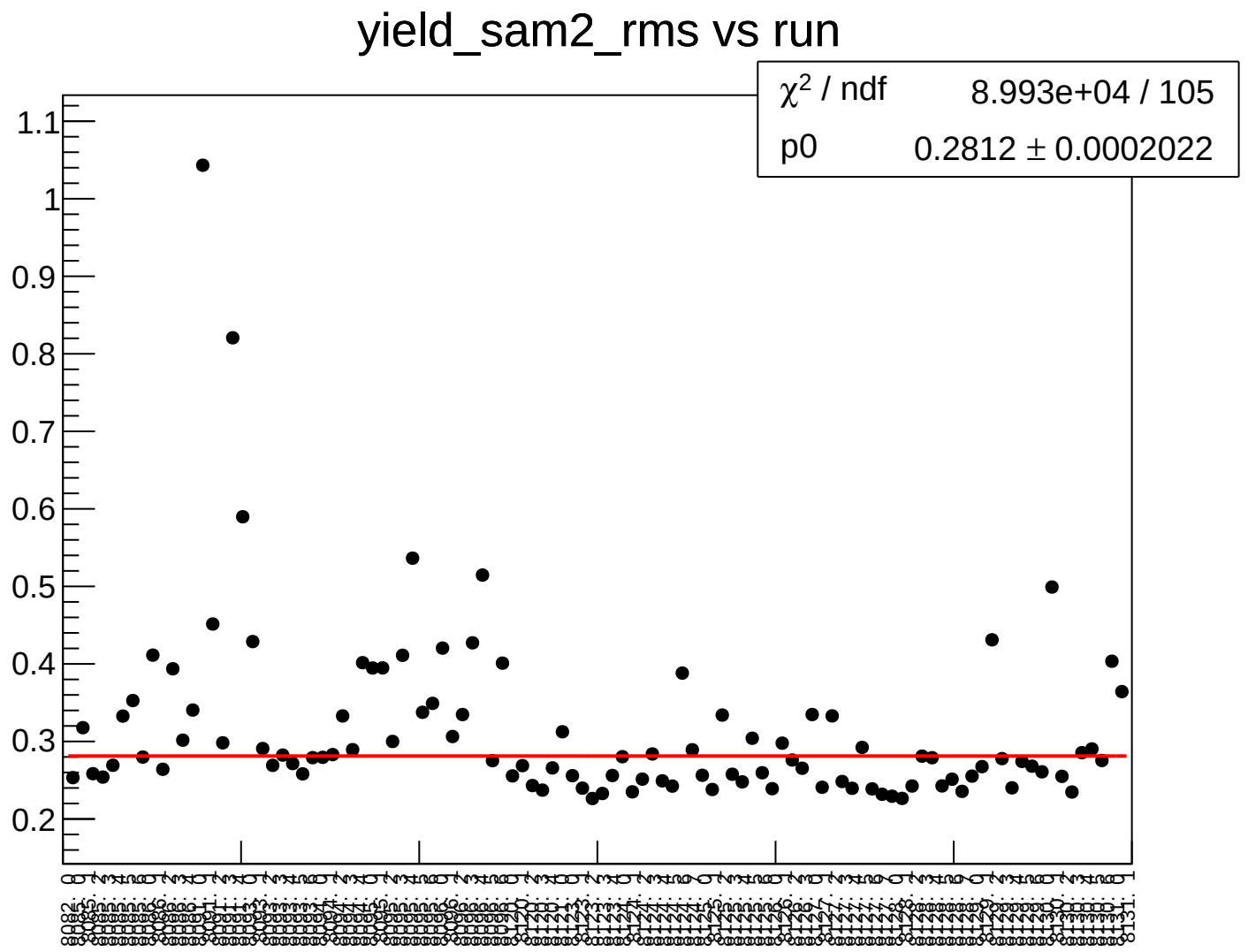

yield_sam1_mean vs run
χ² / ndf 1.39e+07 / 105
p0 15 ± 1.159e−05
15.15
15.1
15.05
15
14.95
pull
Entries 106
Mean −312.6
Std Dev 0
1200
1000
800
600
400
200
0
−200
−400

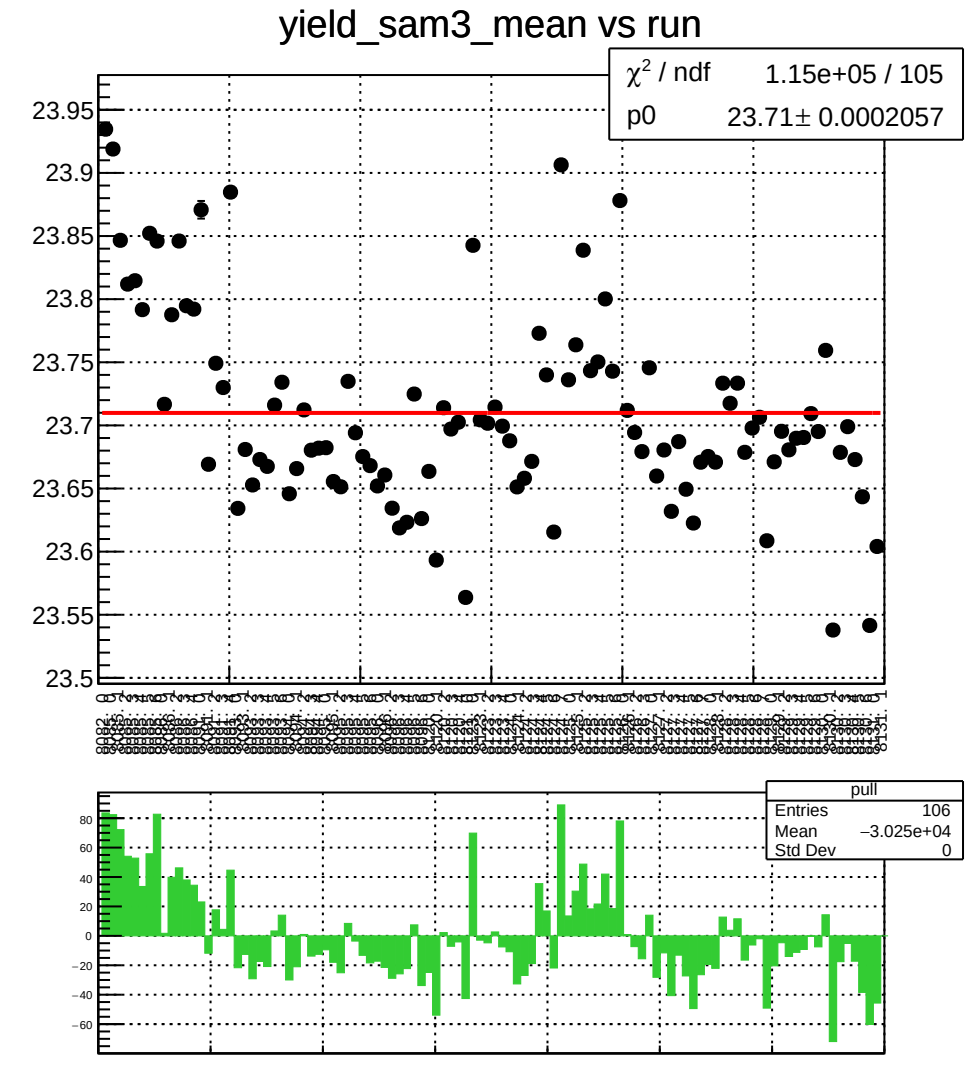

pull1D
Entries 106
Mean 0.1505
Std Dev 2.237
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

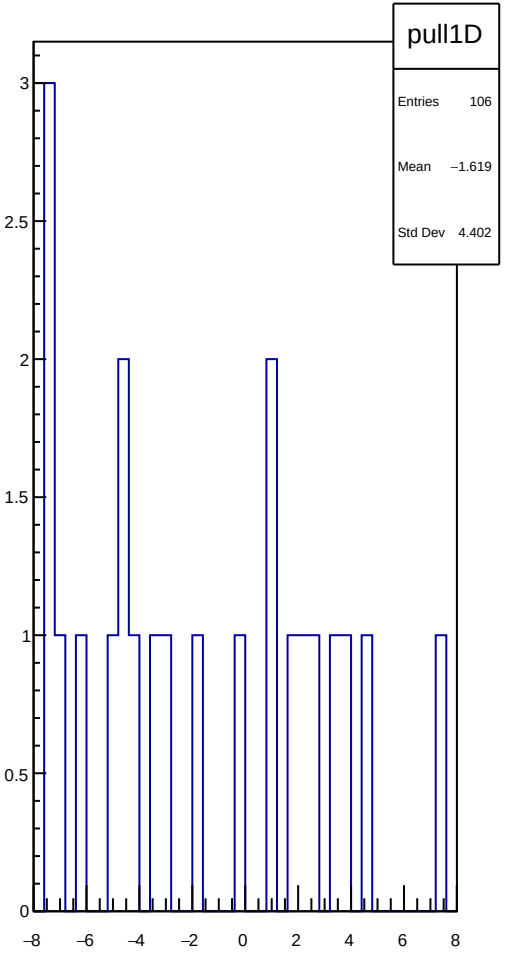

yield_sam1_rms vs run
χ² / ndf 9.423e+04 / 105
p0 0.01138 ± 8.194e–06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

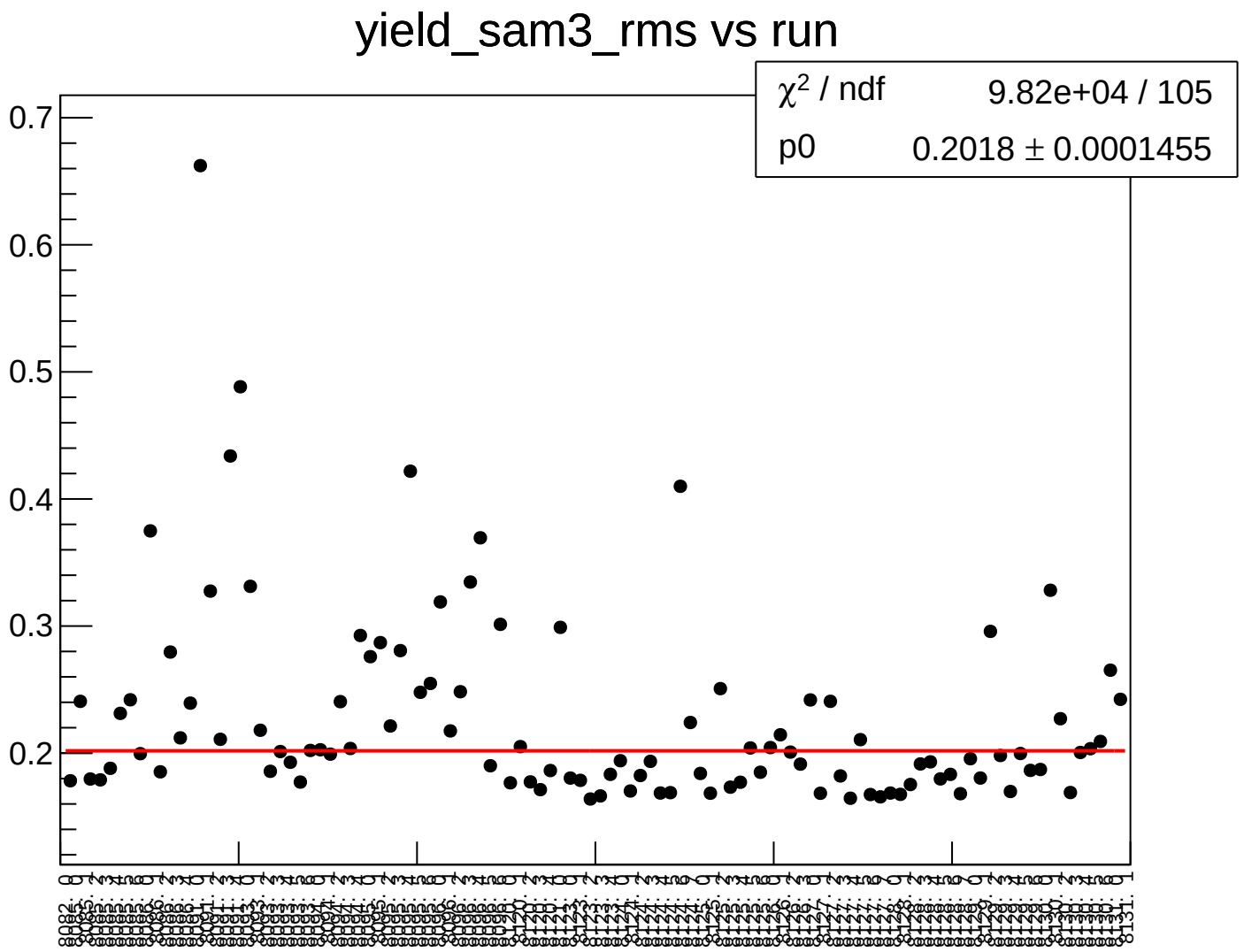

yield_sam2_mean vs run
χ² / ndf 9.82e+04 / 105
p0 24.6 ± 0.000286
24.8
24.7
24.6
24.5
24.4
24.3
pull
Entries 106
Mean −176.3
Std Dev 0
80
60
40
20
0
−20
−40
−60

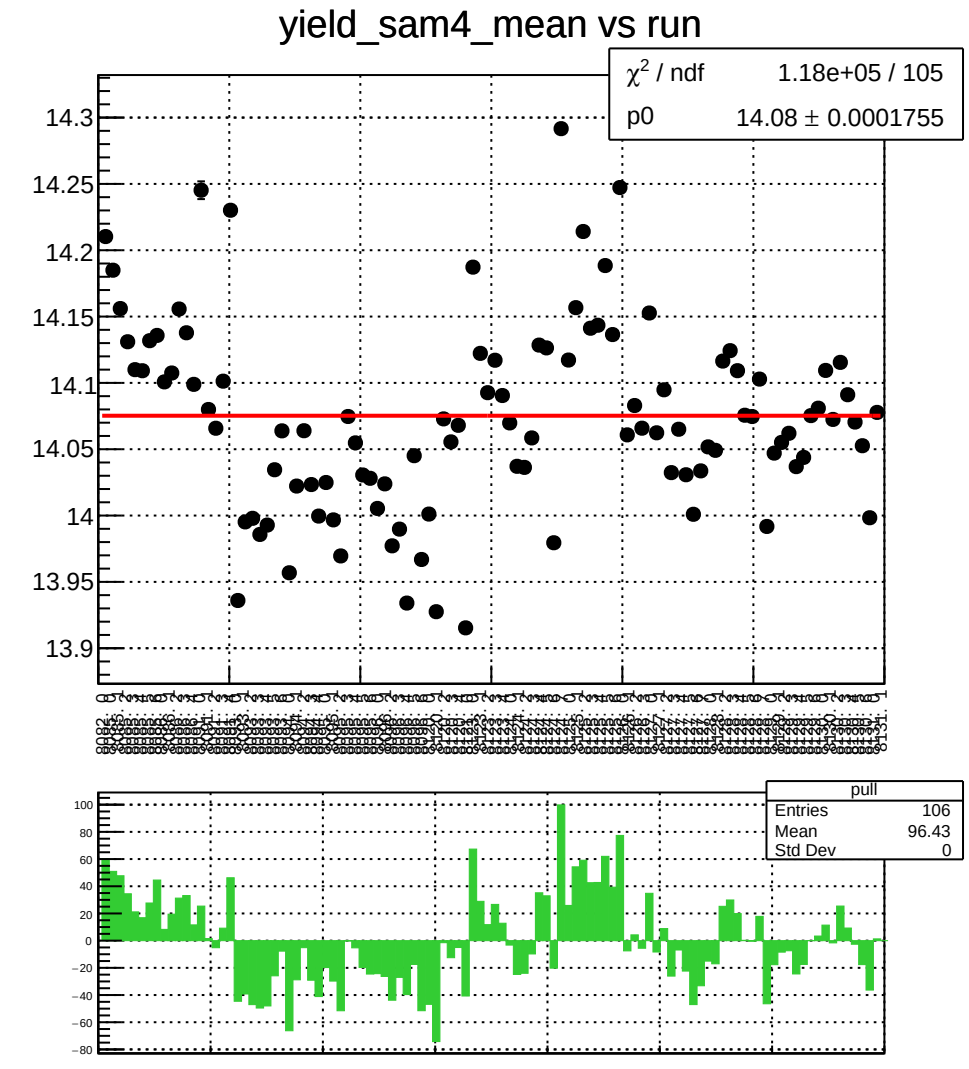

pull1D
Entries 106
Mean 0.9576
Std Dev 4.584
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

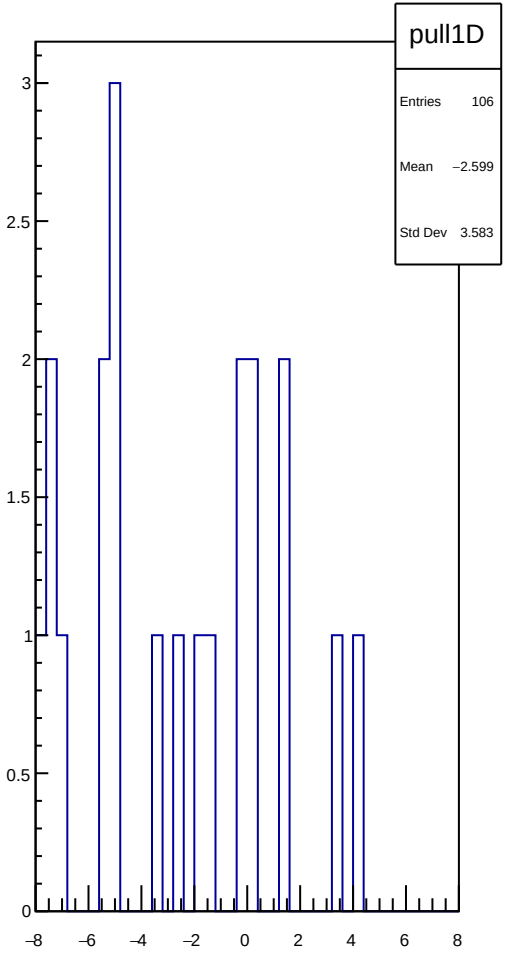

yield_sam2_rms vs run
χ² / ndf 8.993e+04 / 105
p0 0.2812 ± 0.0002022
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2

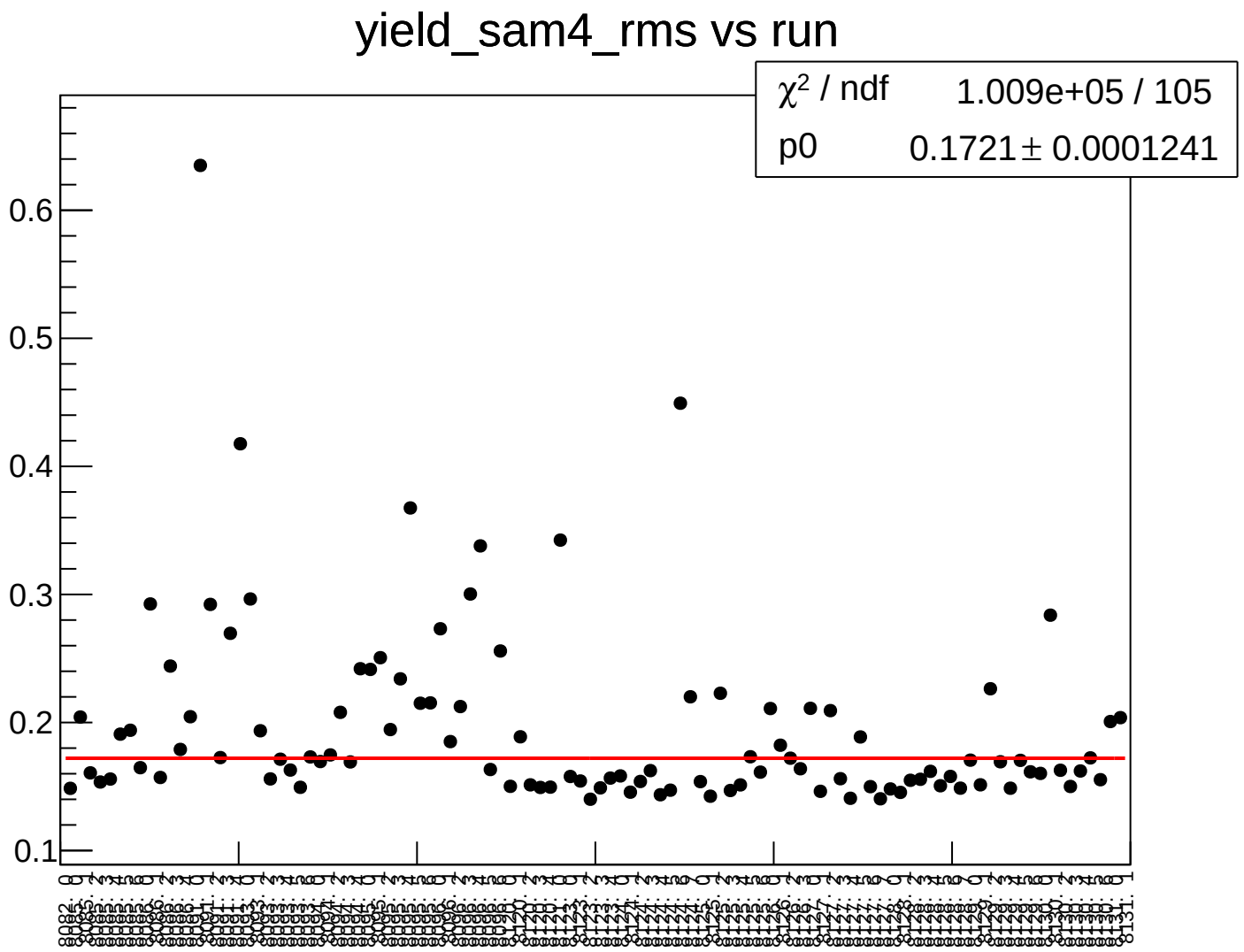

yield_sam3_mean vs run
χ² / ndf 1.15e+05 / 105
p0 23.71± 0.0002057
23.95
23.9
23.85
23.8
23.75
23.7
23.65
23.6
23.55
23.5
pull
Entries 106
Mean −3.025e+04
Std Dev 0
80
60
40
20
0
−20
−40
−60

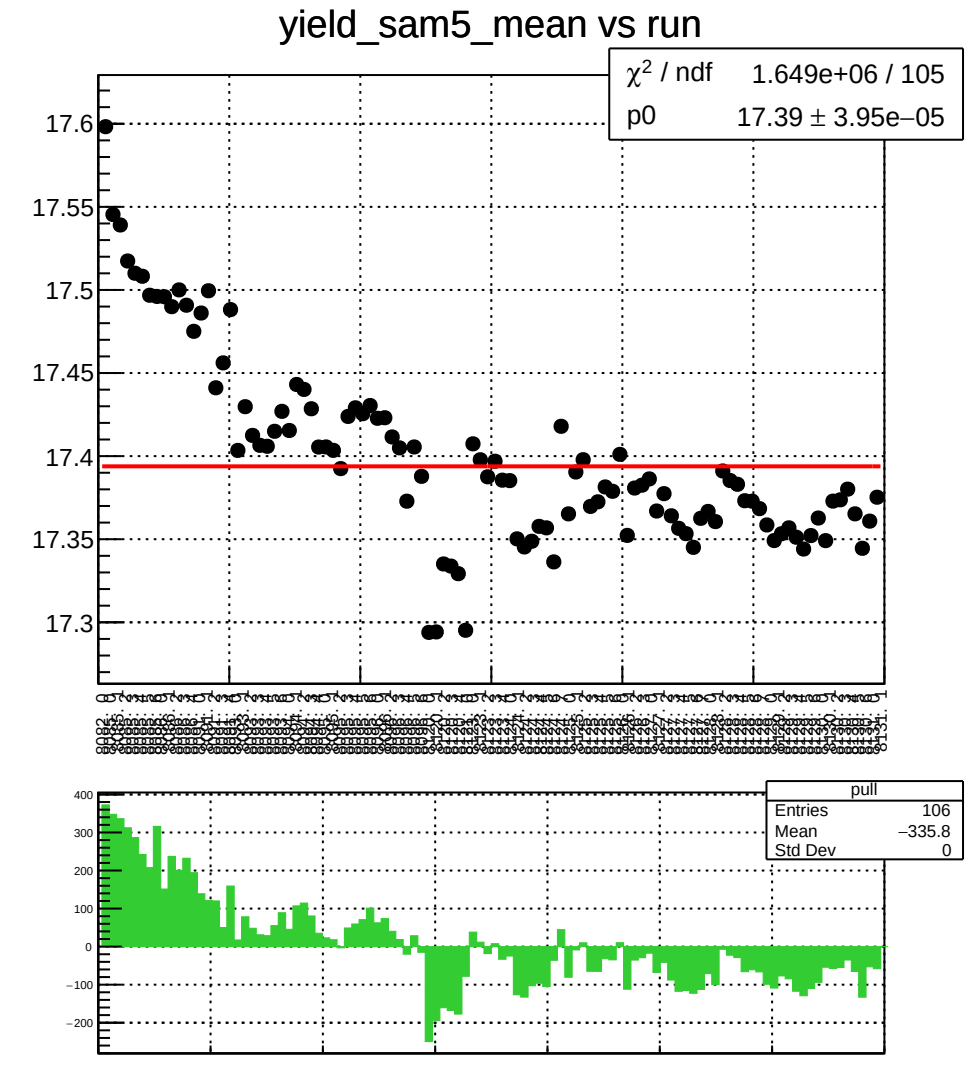

pull1D
Entries 106
Mean −1.619
Std Dev 4.402
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

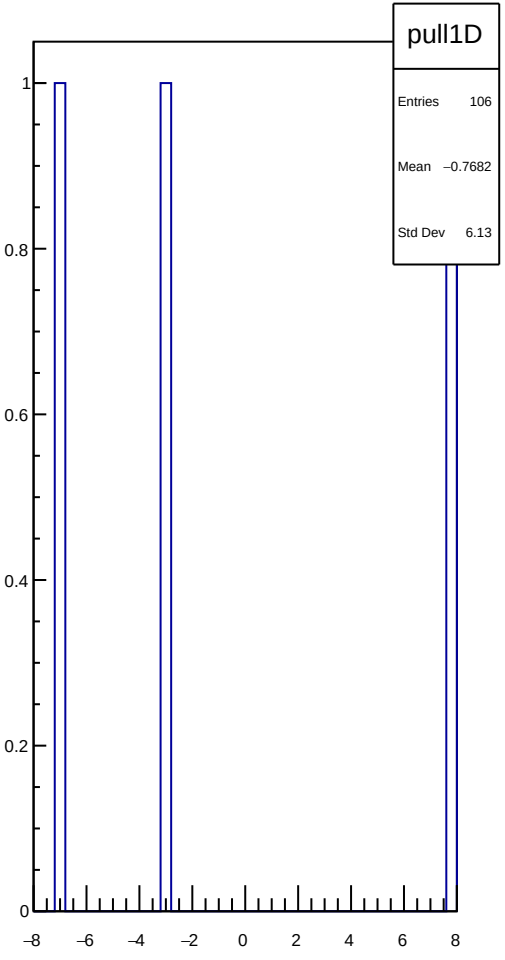

yield_sam3_rms vs run
$\chi^2$ / ndf 9.82e+04 / 105
p0 0.2018 ± 0.0001455
0.7
0.6
0.5
0.4
0.3
0.2

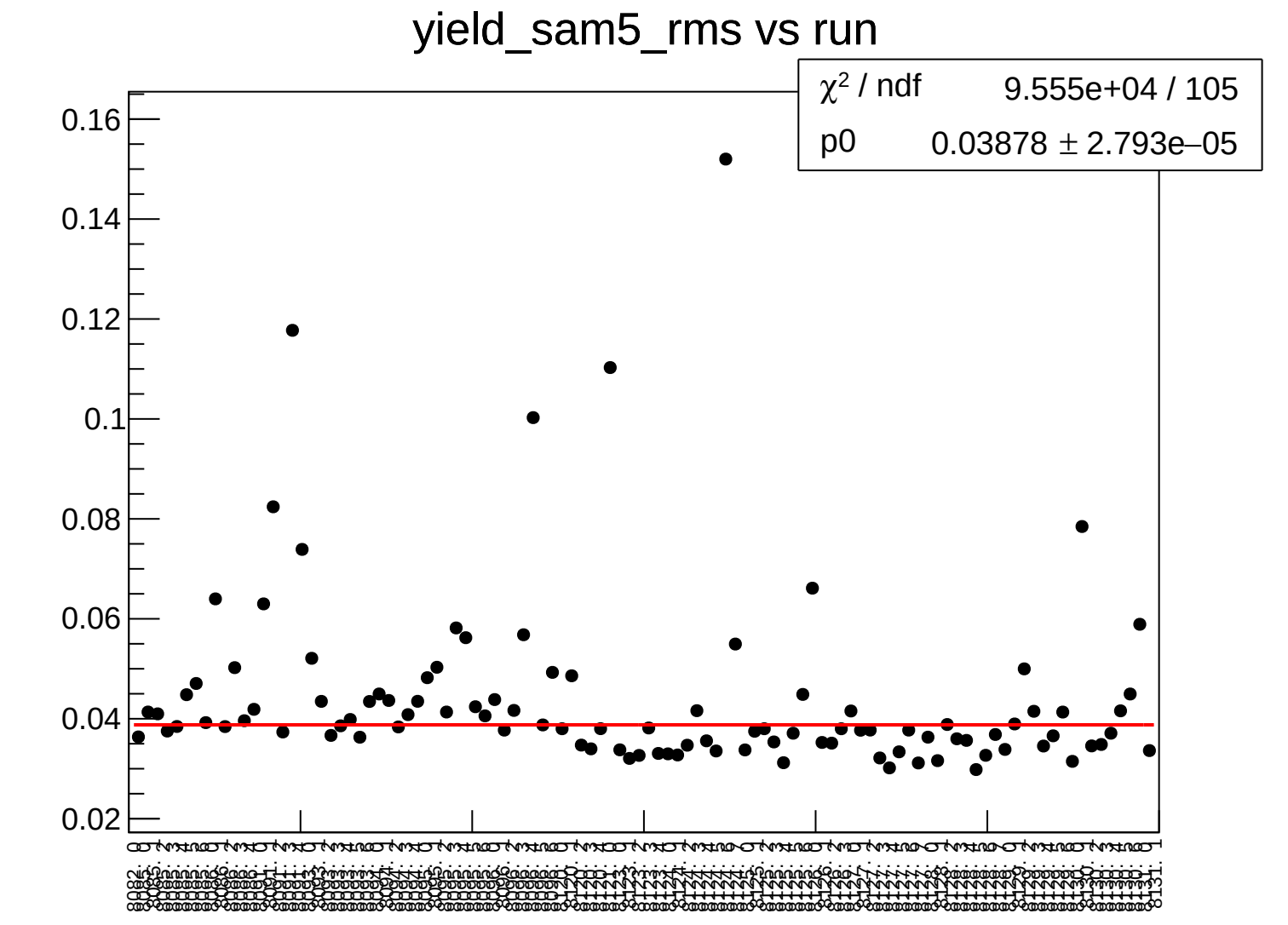

yield_sam4_mean vs run
χ² / ndf 1.18e+05 / 105
p0 14.08 ± 0.0001755
14.3
14.25
14.2
14.15
14.1
14.05
14
13.95
13.9
pull
Entries 106
Mean 96.43
Std Dev 0
100
80
60
40
20
0
−20
−40
−60
−80

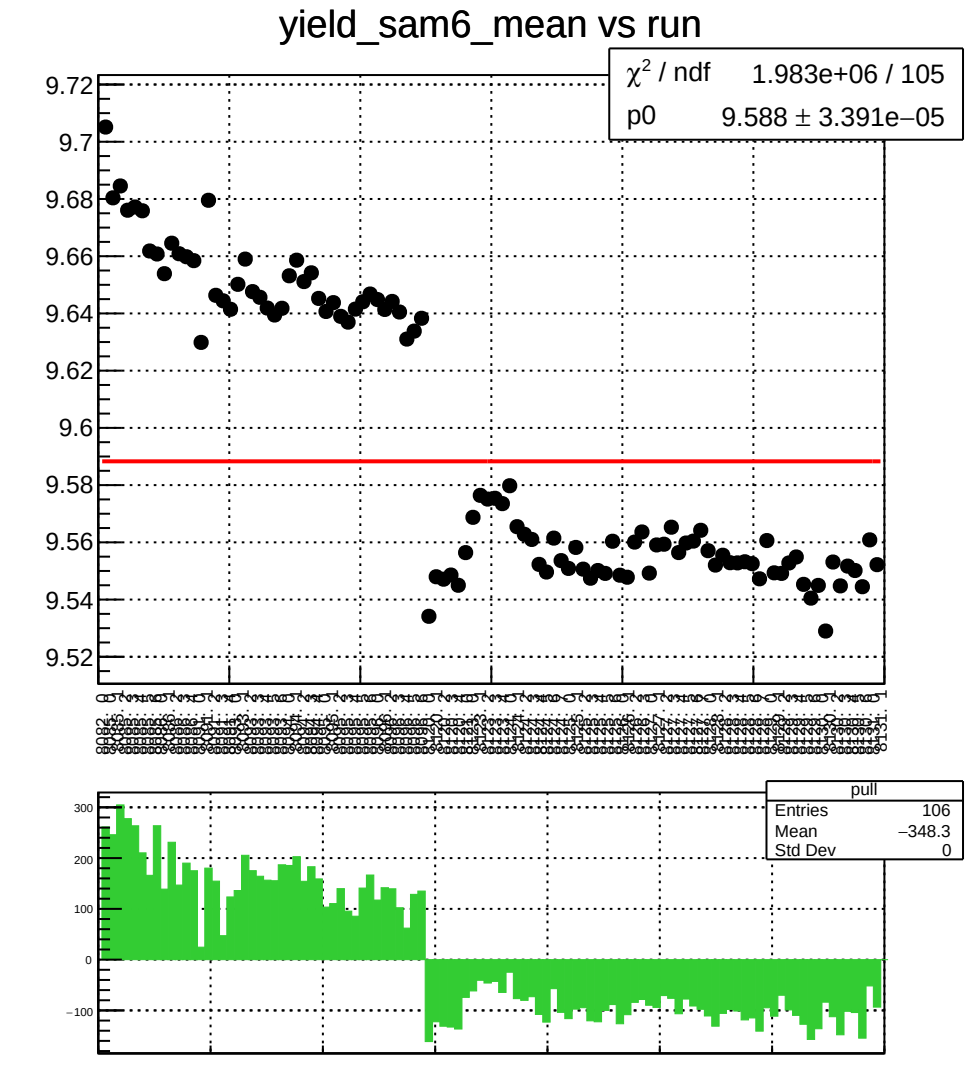

pull1D
Entries 106
Mean −2.599
Std Dev 3.583
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

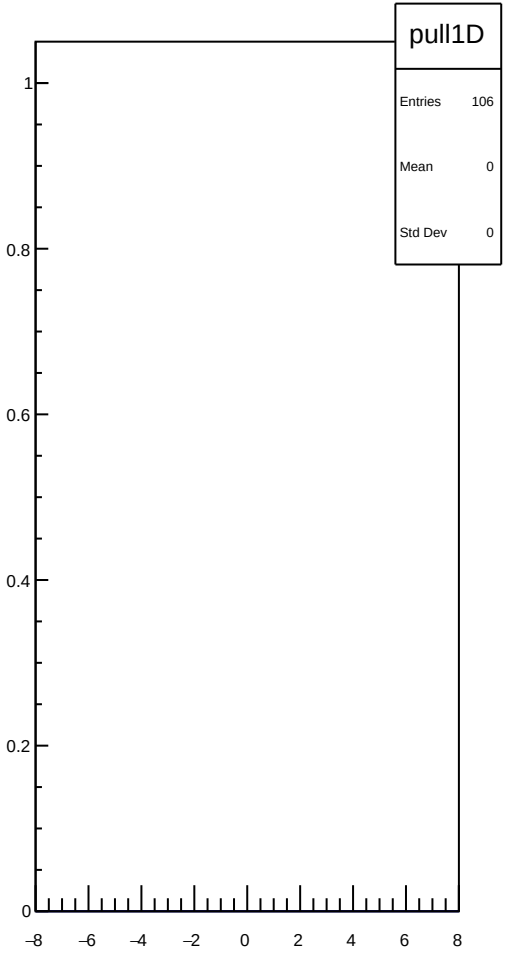

yield_sam4_rms vs run
χ² / ndf 1.009e+05 / 105
p0 0.1721 ± 0.0001241
0.6
0.5
0.4
0.3
0.2
0.1

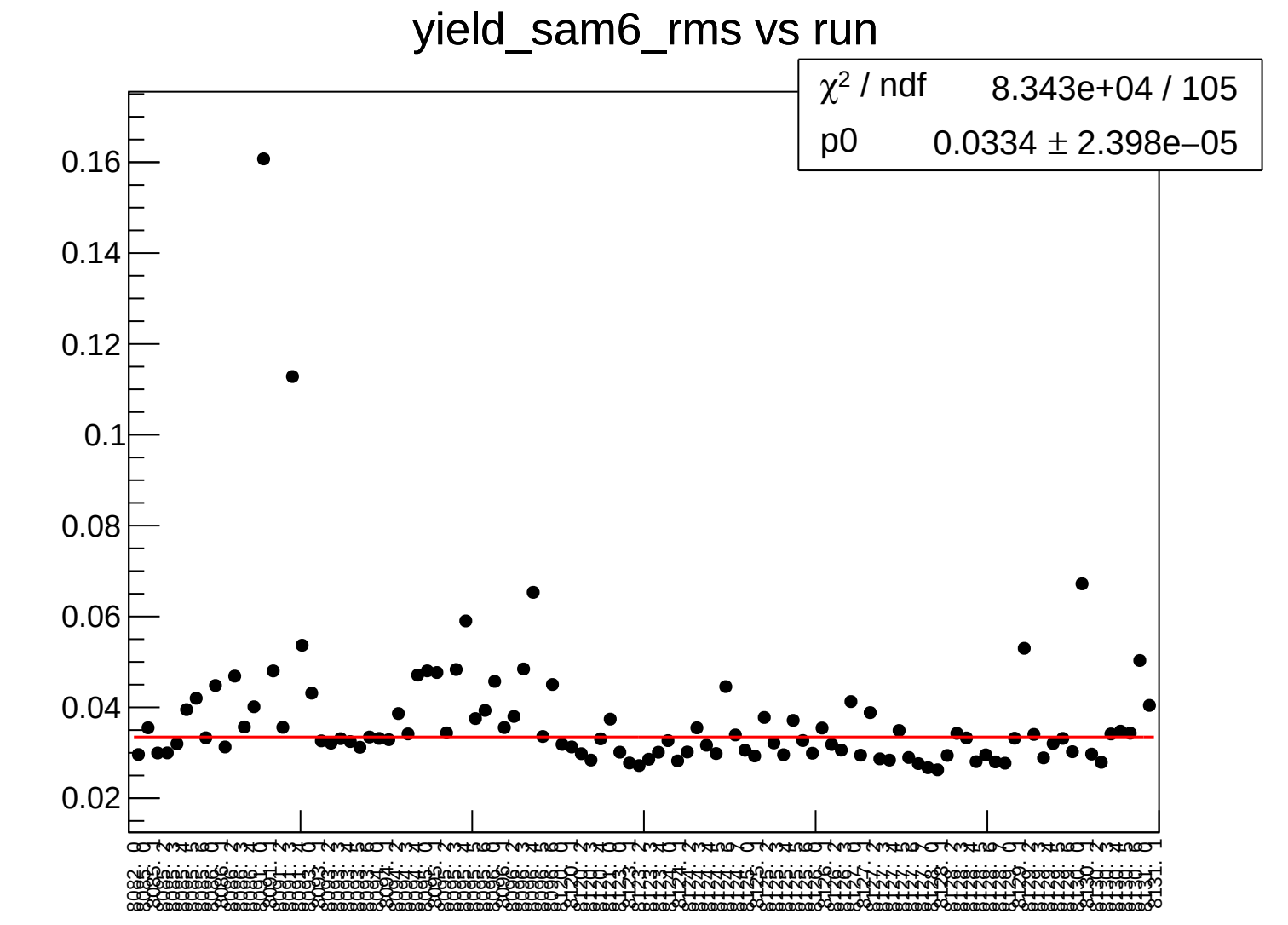

yield_sam5_mean vs run
χ² / ndf 1.649e+06 / 105
p0 17.39 ± 3.95e−05
17.6
17.55
17.5
17.45
17.4
17.35
17.3
pull
Entries 106
Mean −335.8
Std Dev 0
400
300
200
100
0
−100
−200

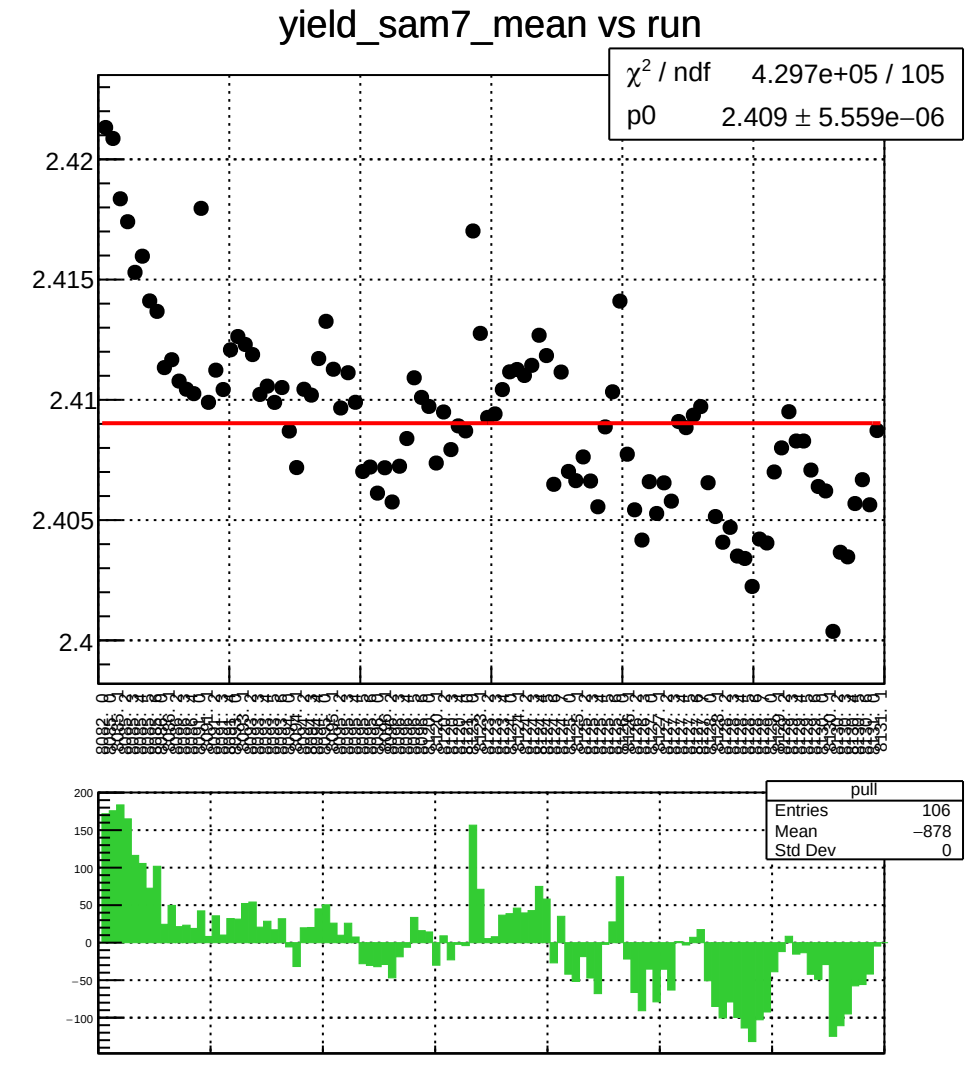

pull1D
Entries 106
Mean −0.7682
Std Dev 6.13
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

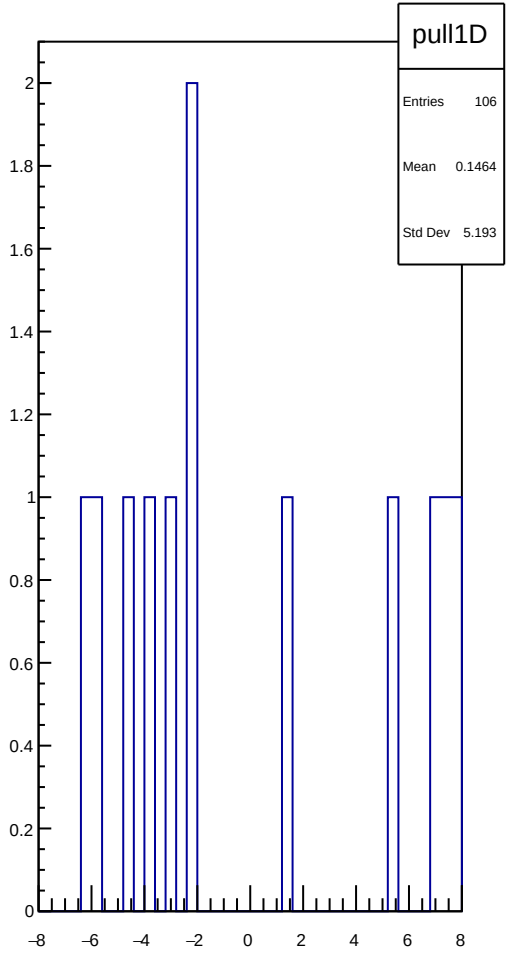

yield_sam5_rms vs run
$\chi^2$ / ndf 9.555e+04 / 105
p0 0.03878 ± 2.793e–05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

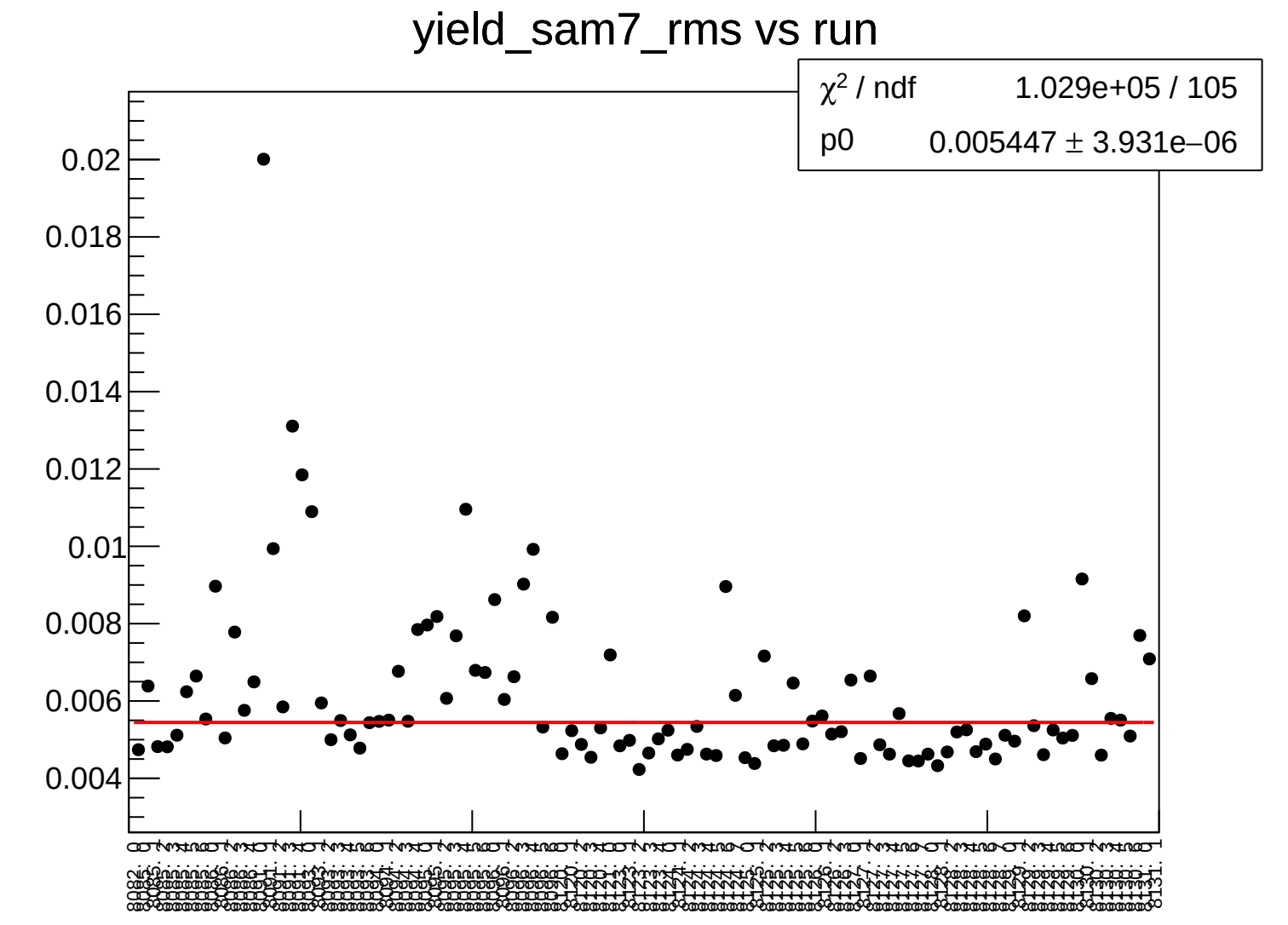

yield_sam6_mean vs run
χ² / ndf 1.983e+06 / 105
p0 9.588 ± 3.391e−05
9.72
9.7
9.68
9.66
9.64
9.62
9.6
9.58
9.56
9.54
9.52
pull
Entries 106
Mean −348.3
Std Dev 0
300
200
100
0
−100

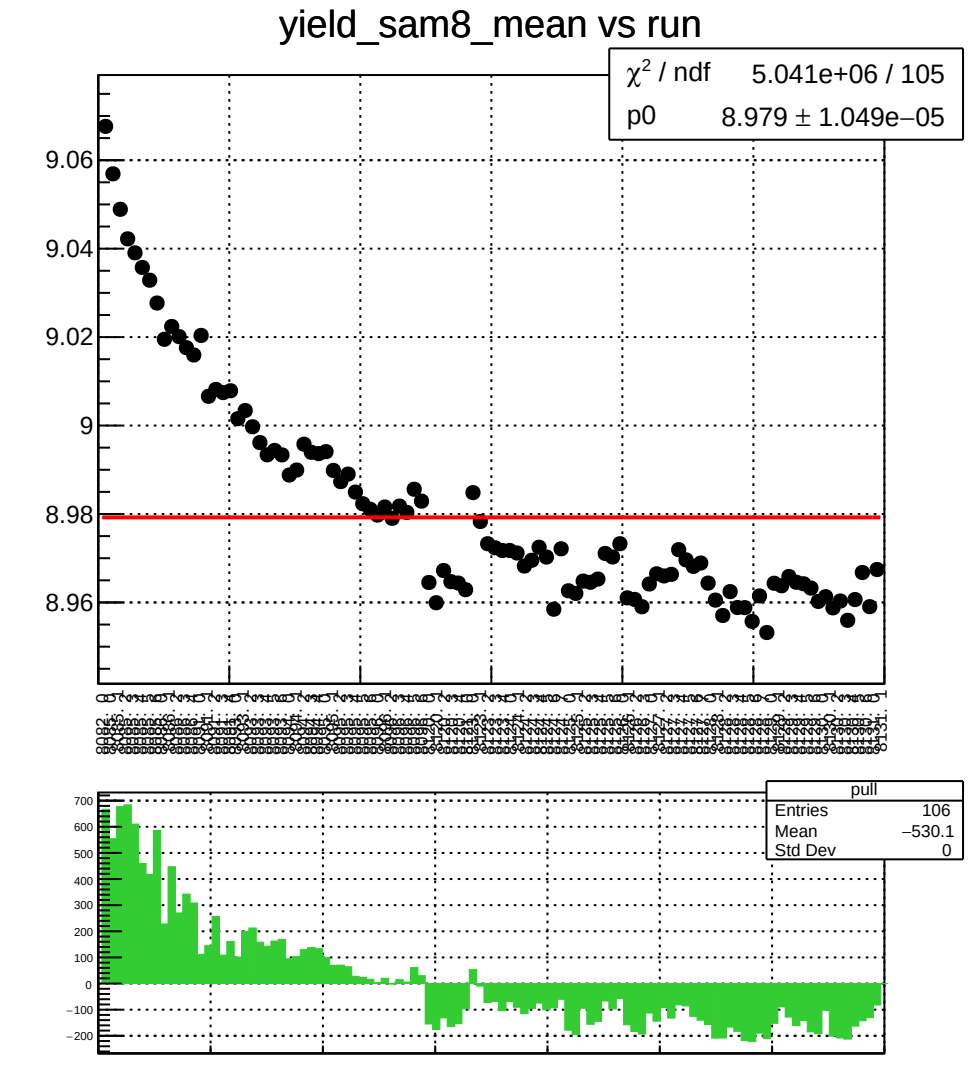

pull1D
Entries 106
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

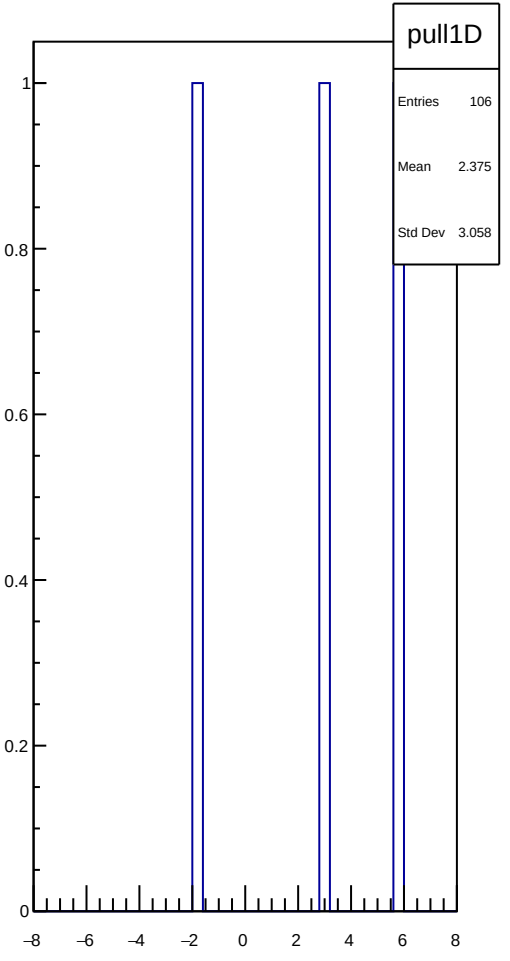

yield_sam6_rms vs run
χ² / ndf 8.343e+04 / 105
p0 0.0334 ± 2.398e−05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

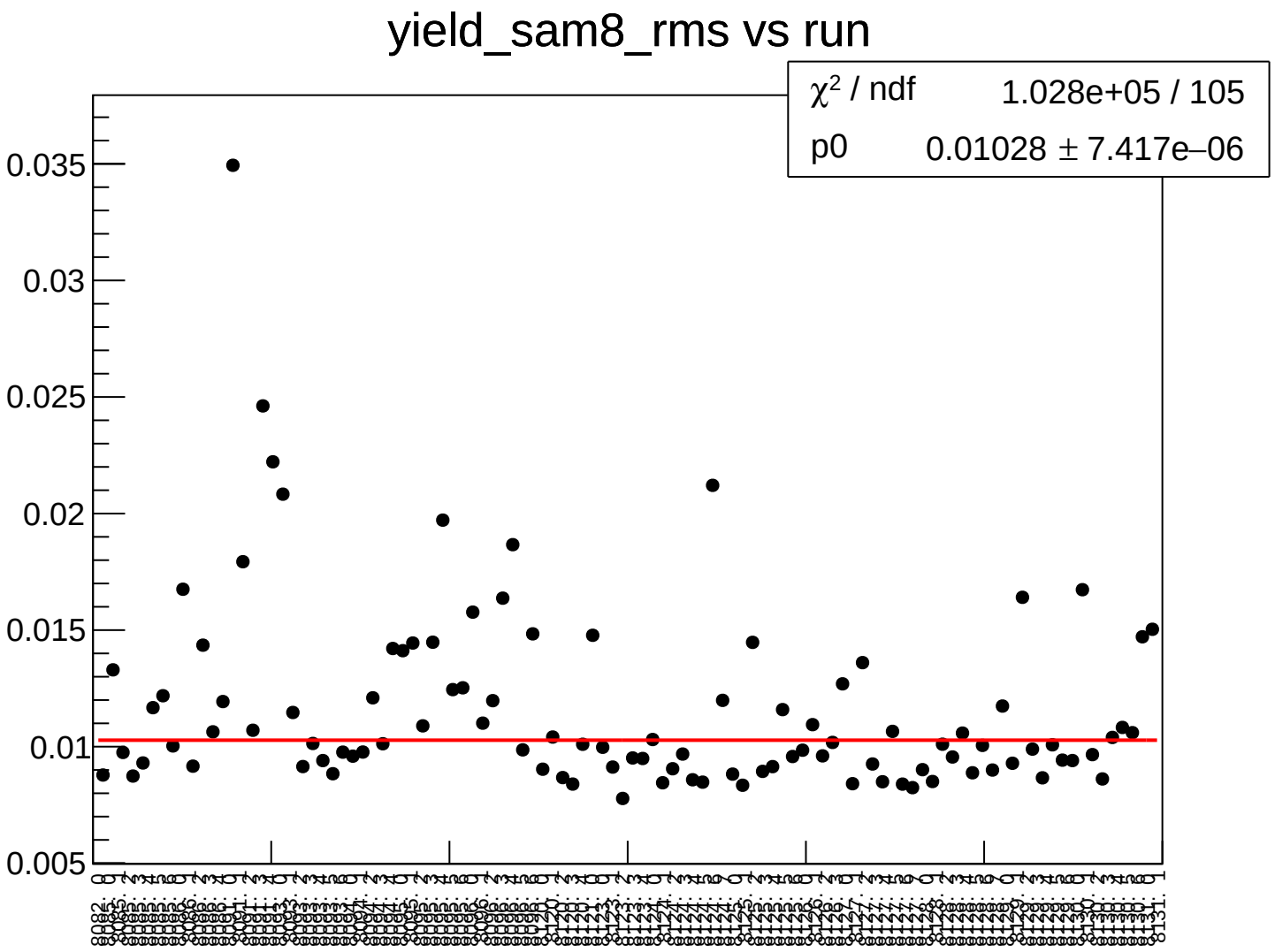

yield_sam7_mean vs run
χ² / ndf 4.297e+05 / 105
p0 2.409 ± 5.559e−06
2.42
2.415
2.41
2.405
2.4
pull
Entries 106
Mean −878
Std Dev 0
200
150
100
50
0
−50
−100

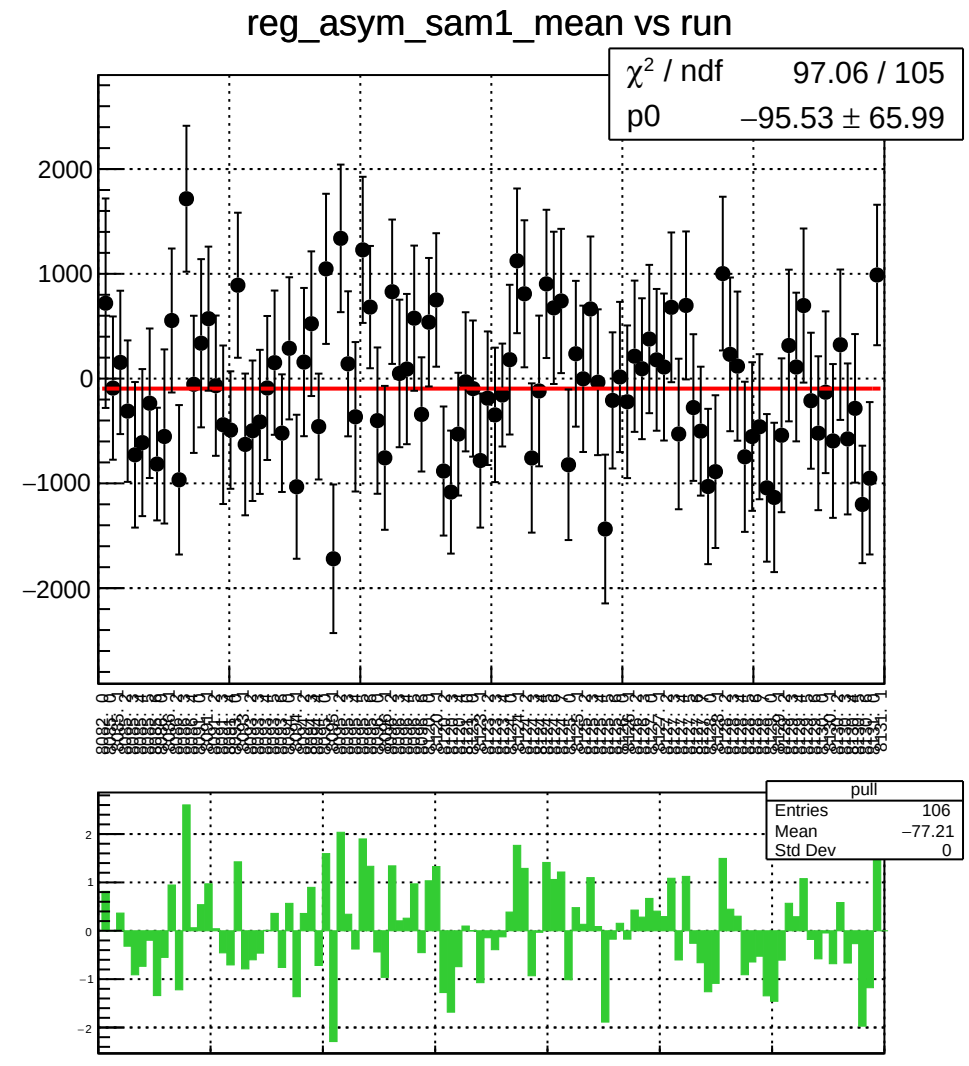

pull1D
Entries 106
Mean 0.1464
Std Dev 5.193
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

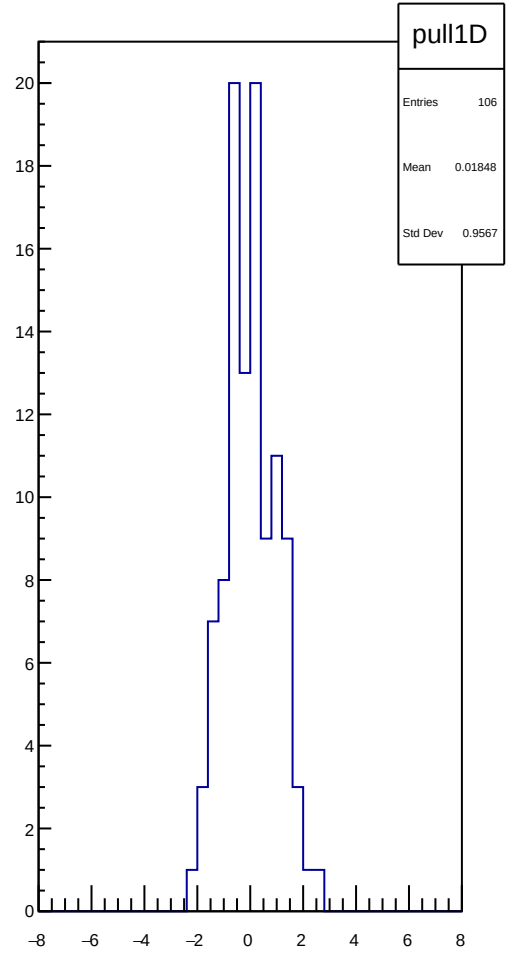

yield_sam7_rms vs run
$\chi^2$ / ndf 1.029e+05 / 105
p0 0.005447 ± 3.931e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

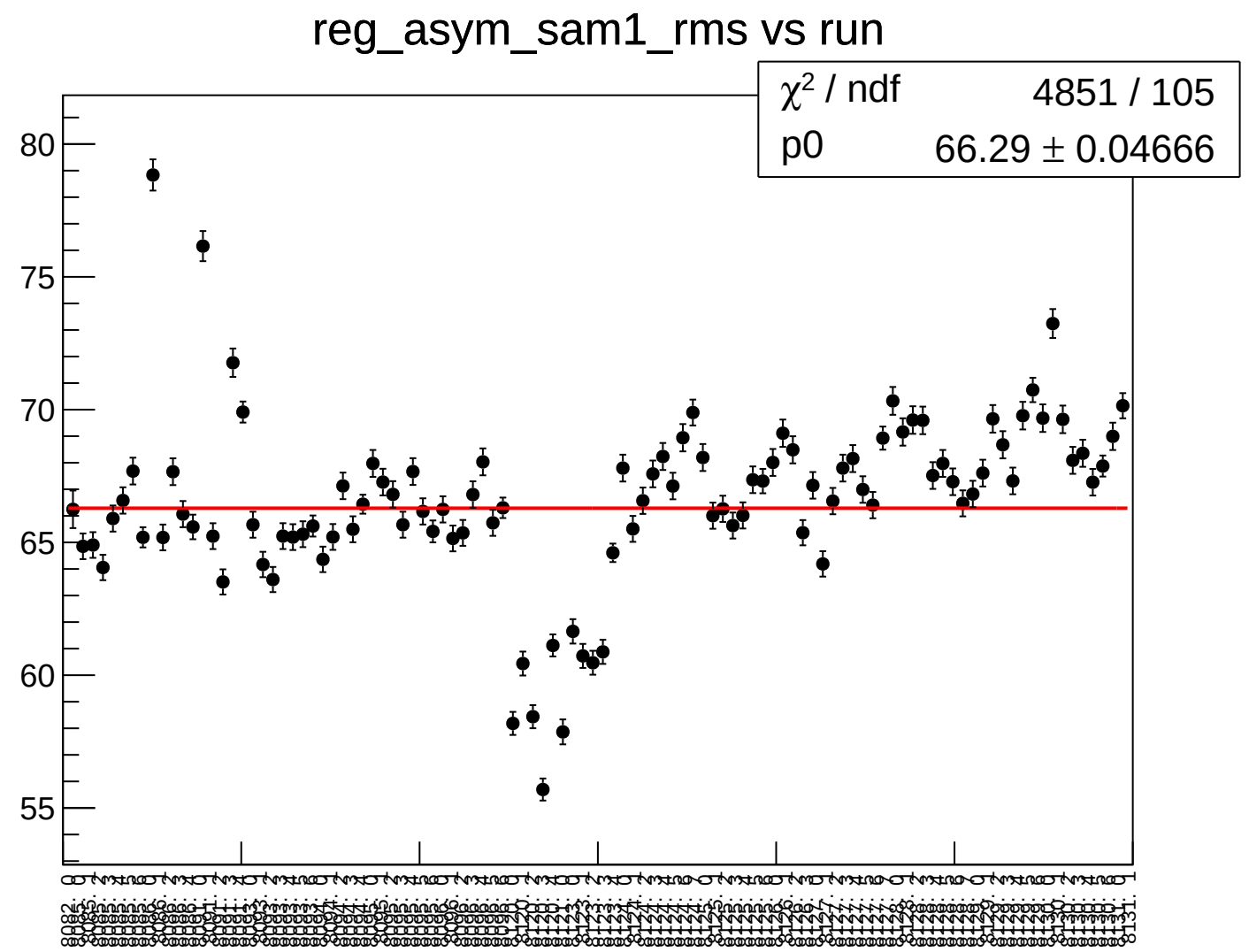

yield_sam8_mean vs run
χ² / ndf 5.041e+06 / 105
p0 8.979 ± 1.049e−05
9.06
9.04
9.02
9
8.98
8.96
pull
Entries 106
Mean −530.1
Std Dev 0
700
600
500
400
300
200
100
0
−100
−200

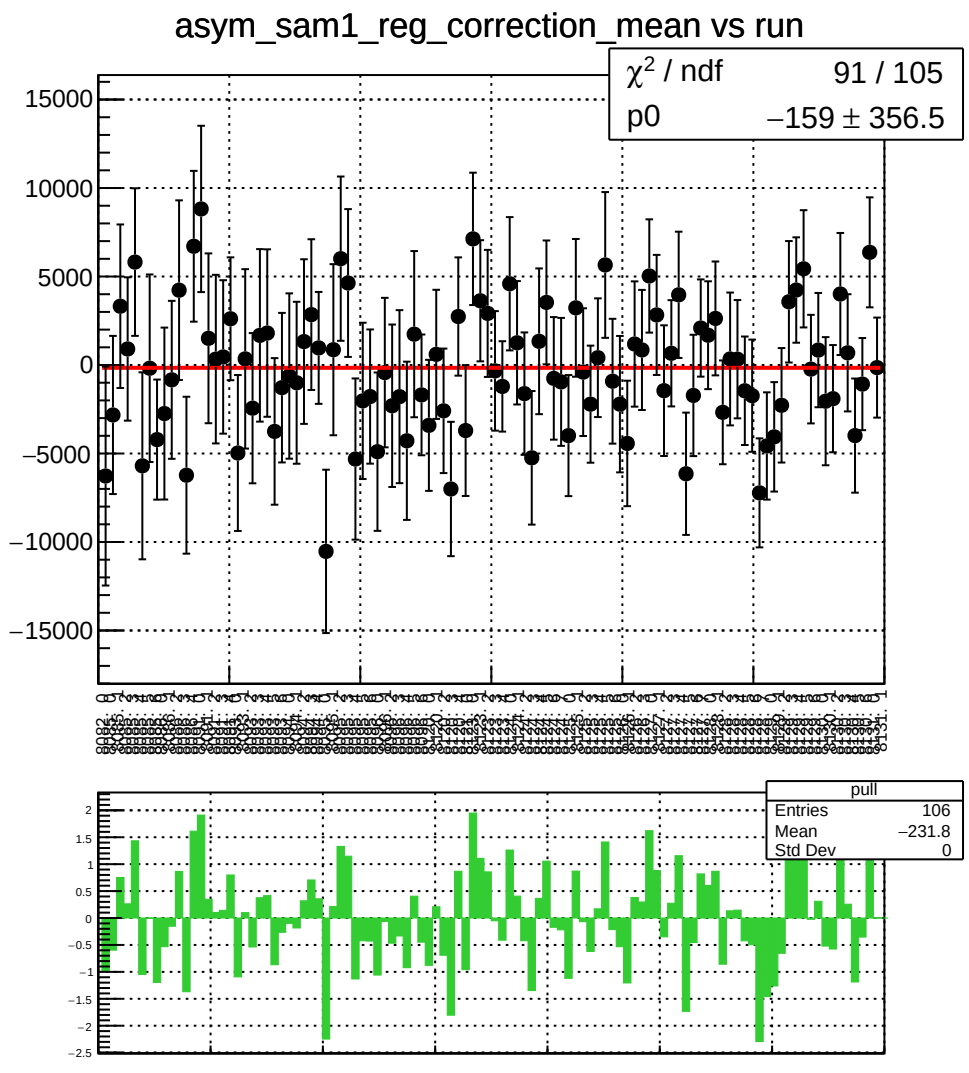

pull1D
Entries 106
Mean 2.375
Std Dev 3.058
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

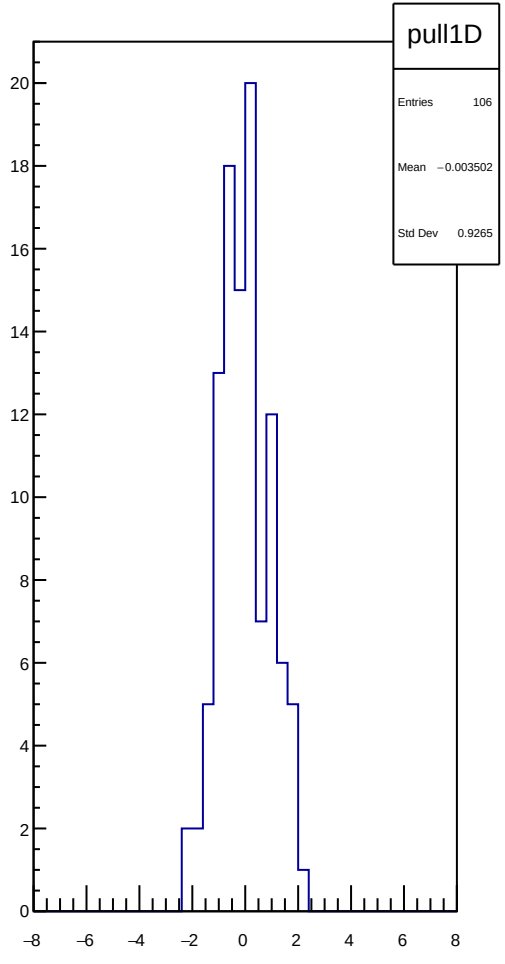

yield_sam8_rms vs run
χ² / ndf 1.028e+05 / 105
p0 0.01028 ± 7.417e–06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

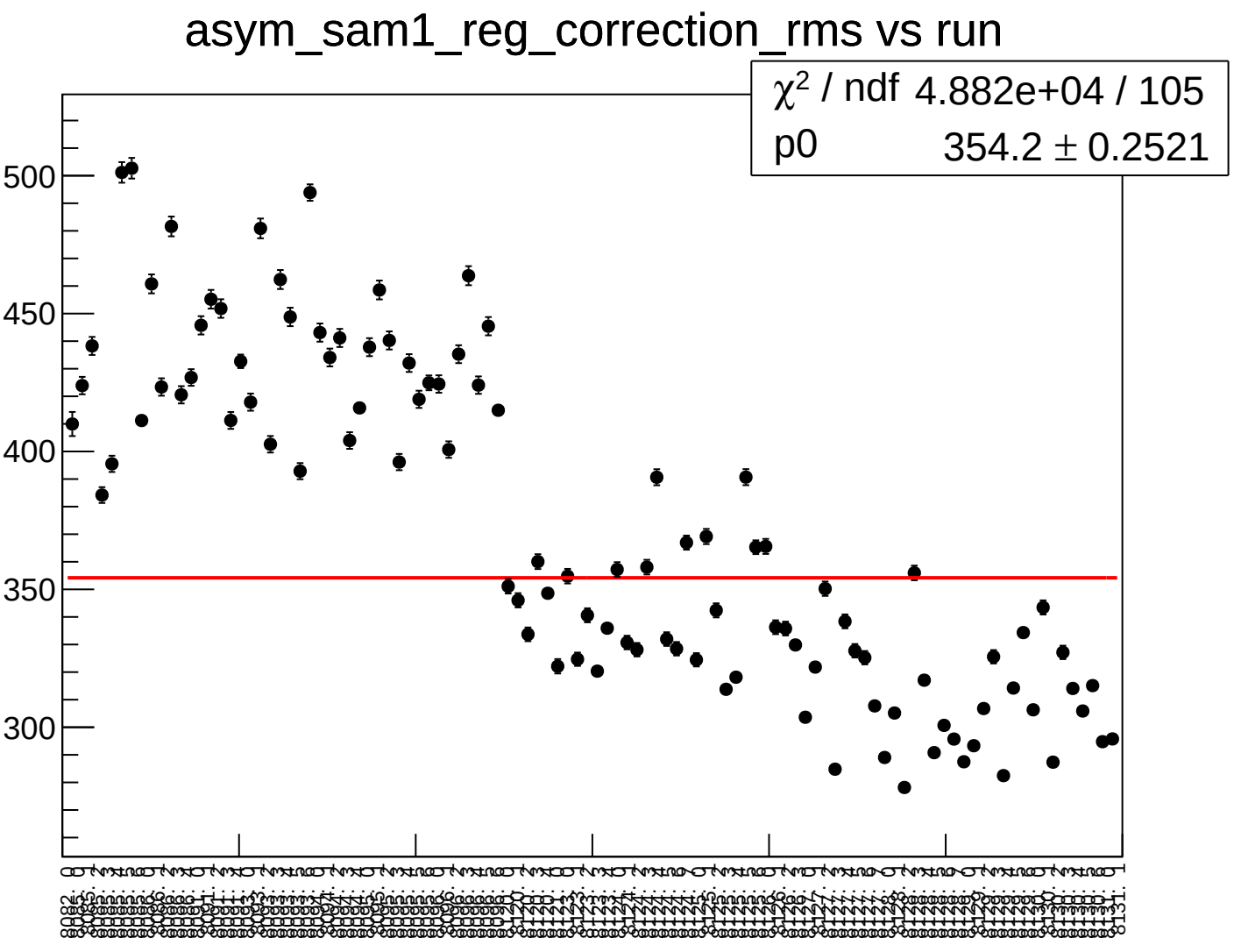

reg_asym_sam1_mean vs run
χ² / ndf 97.06 / 105
p0 −95.53 ± 65.99
2000
1000
0
−1000
−2000
pull
Entries 106
Mean −77.21
Std Dev 0
2
1
0
−1
−2

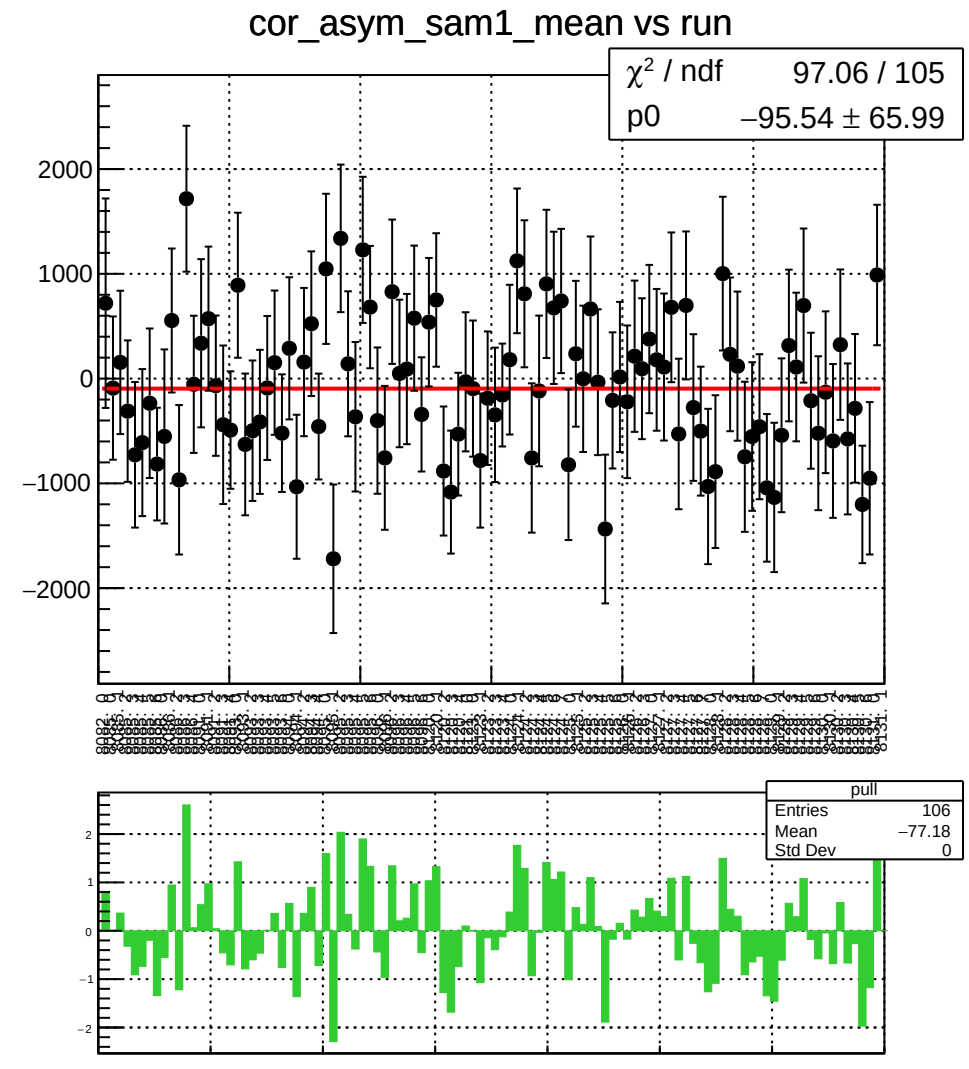

pull1D
Entries 106
Mean 0.01848
Std Dev 0.9567
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

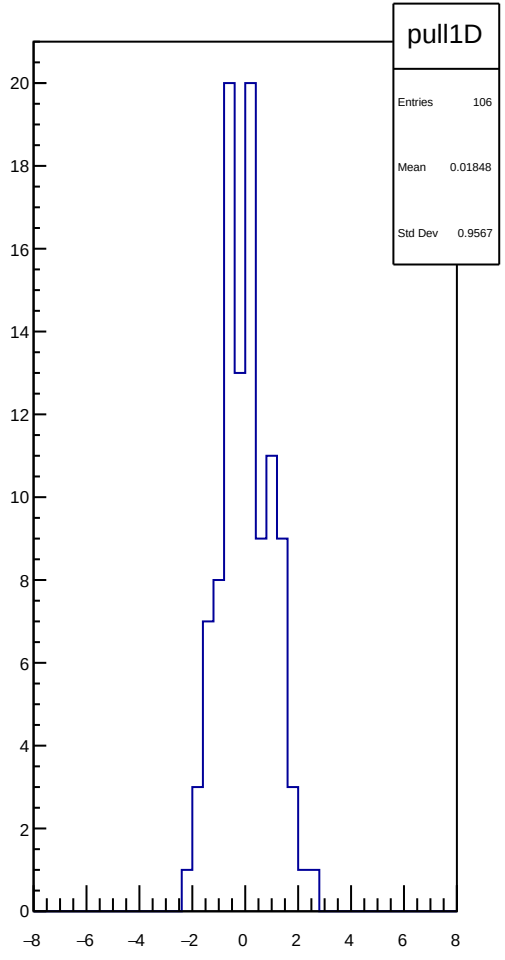

reg_asym_sam1_rms vs run
χ² / ndf 4851 / 105
p0 66.29 ± 0.04666
80
75
70
65
60
55

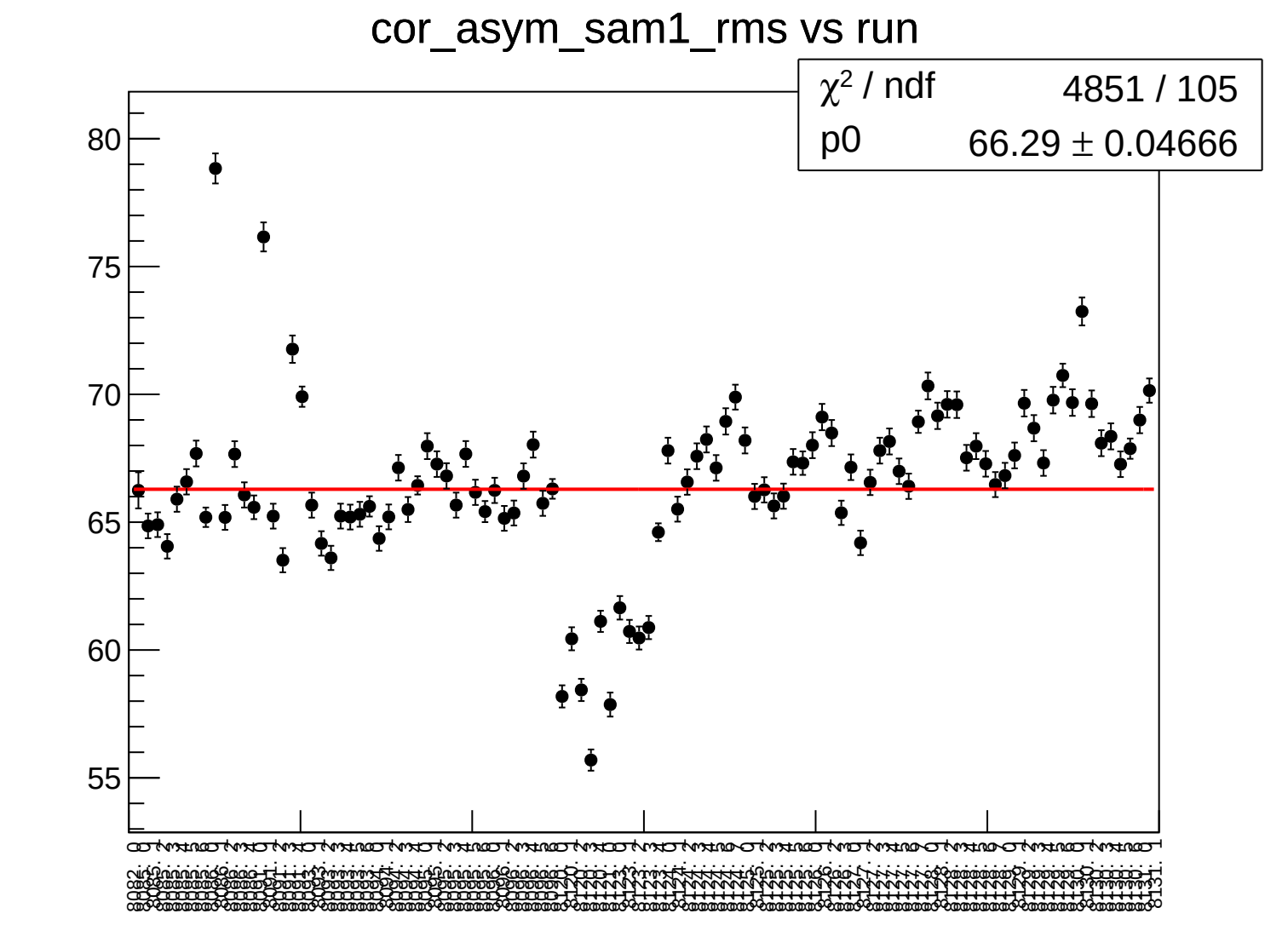

asym_sam1_reg_correction_mean vs run
χ² / ndf 91 / 105
p0 −159 ± 356.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 106
Mean −231.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

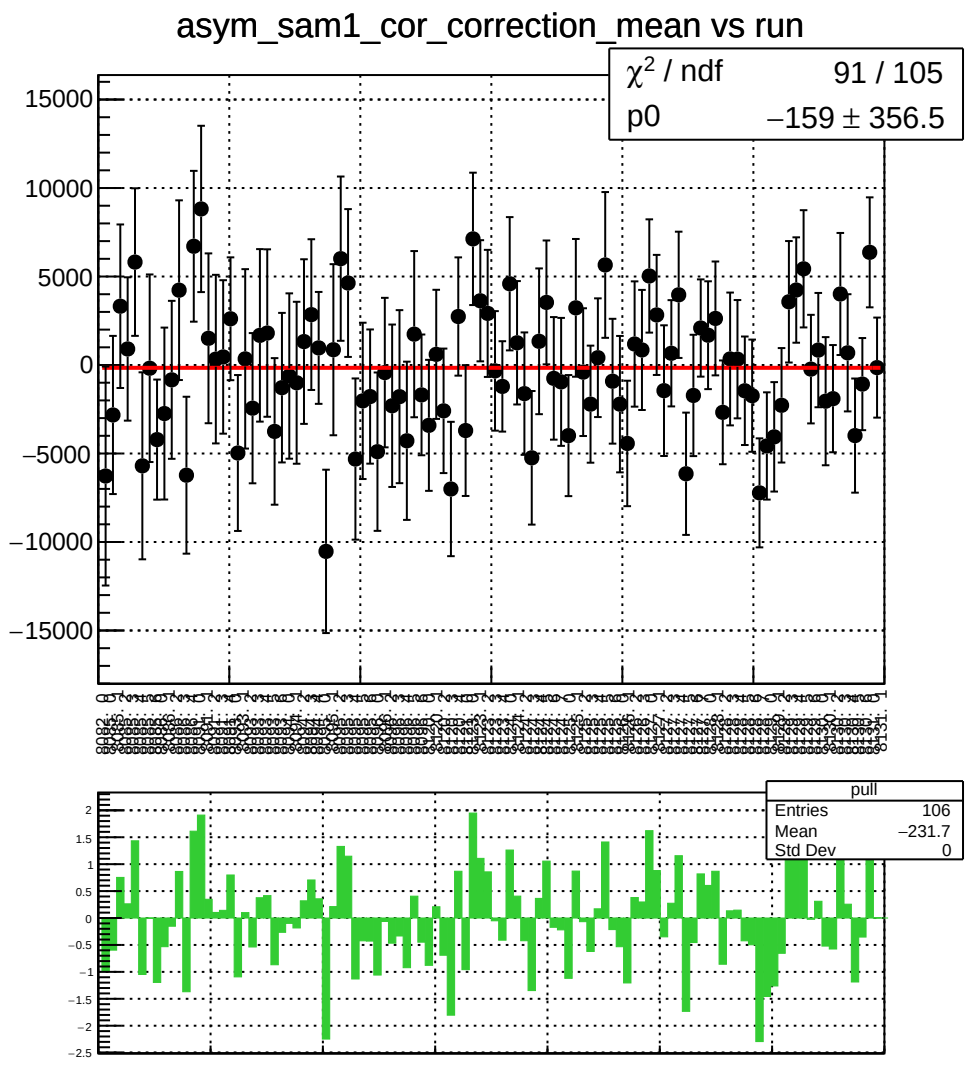

pull1D
Entries 106
Mean −0.003502
Std Dev 0.9265
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

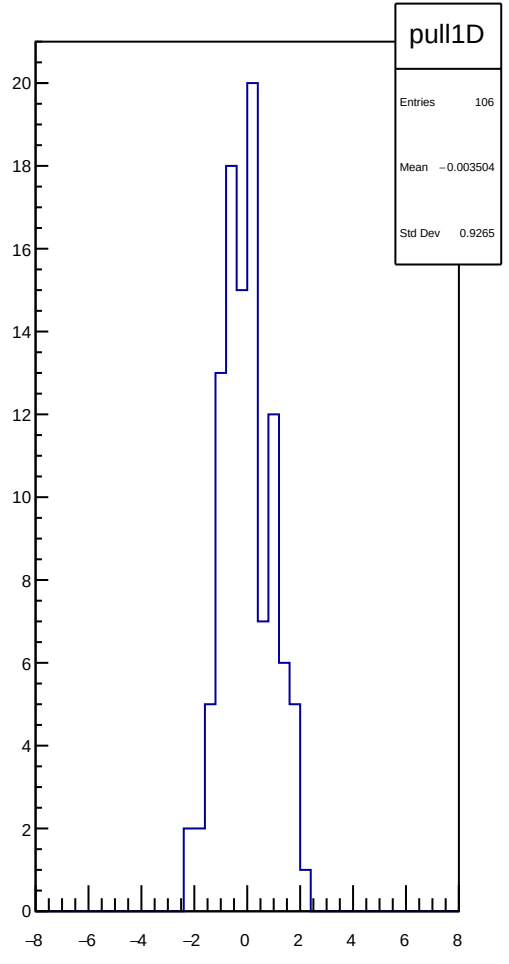

asym_sam1_reg_correction_rms vs run
χ² / ndf 4.882e+04 / 105
p0 354.2 ± 0.2521
500
450
400
350
300

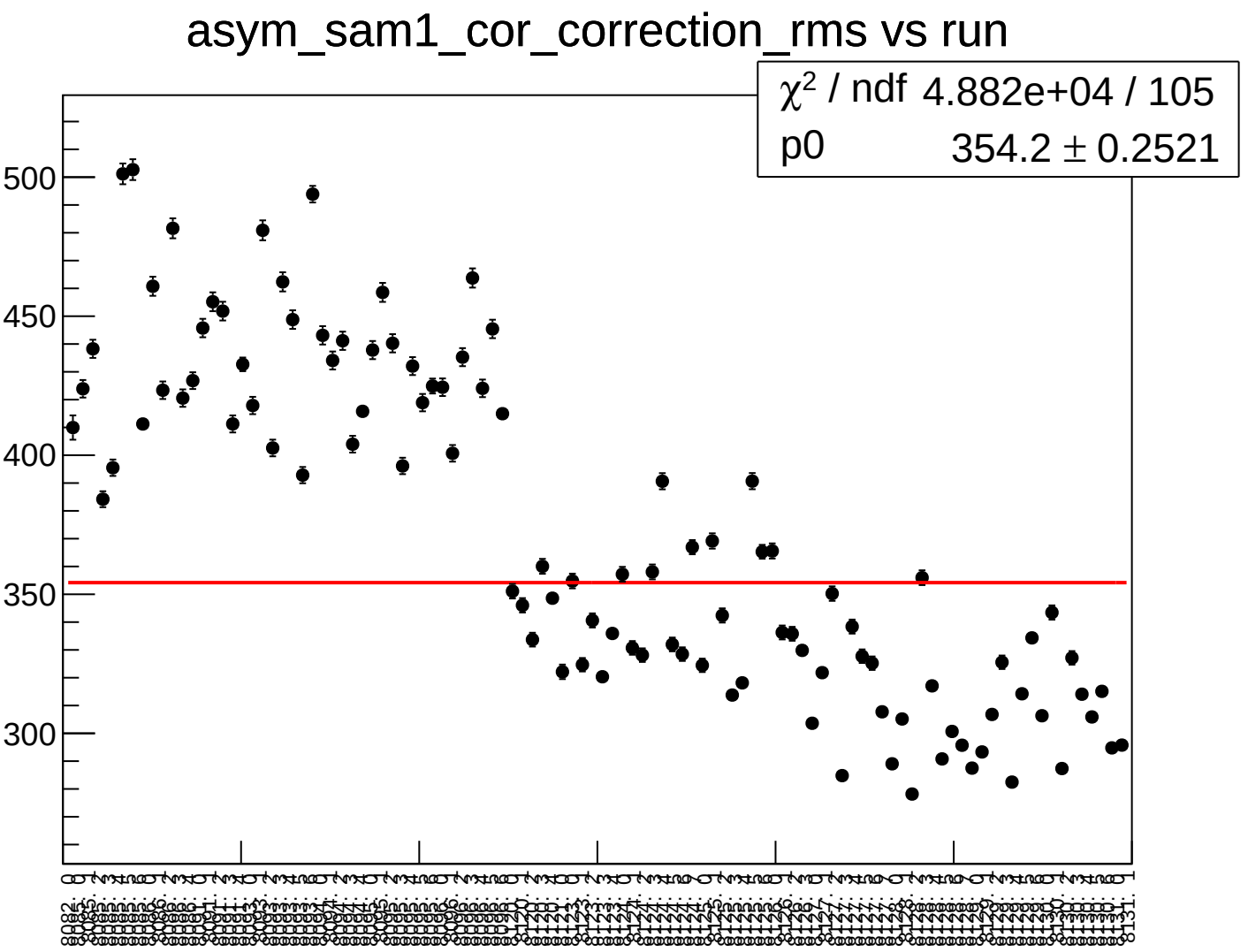

cor_asym_sam1_mean vs run
χ² / ndf 97.06 / 105
p0 −95.54 ± 65.99
2000
1000
0
−1000
−2000
pull
Entries 106
Mean −77.18
Std Dev 0
2
1
0
−1
−2

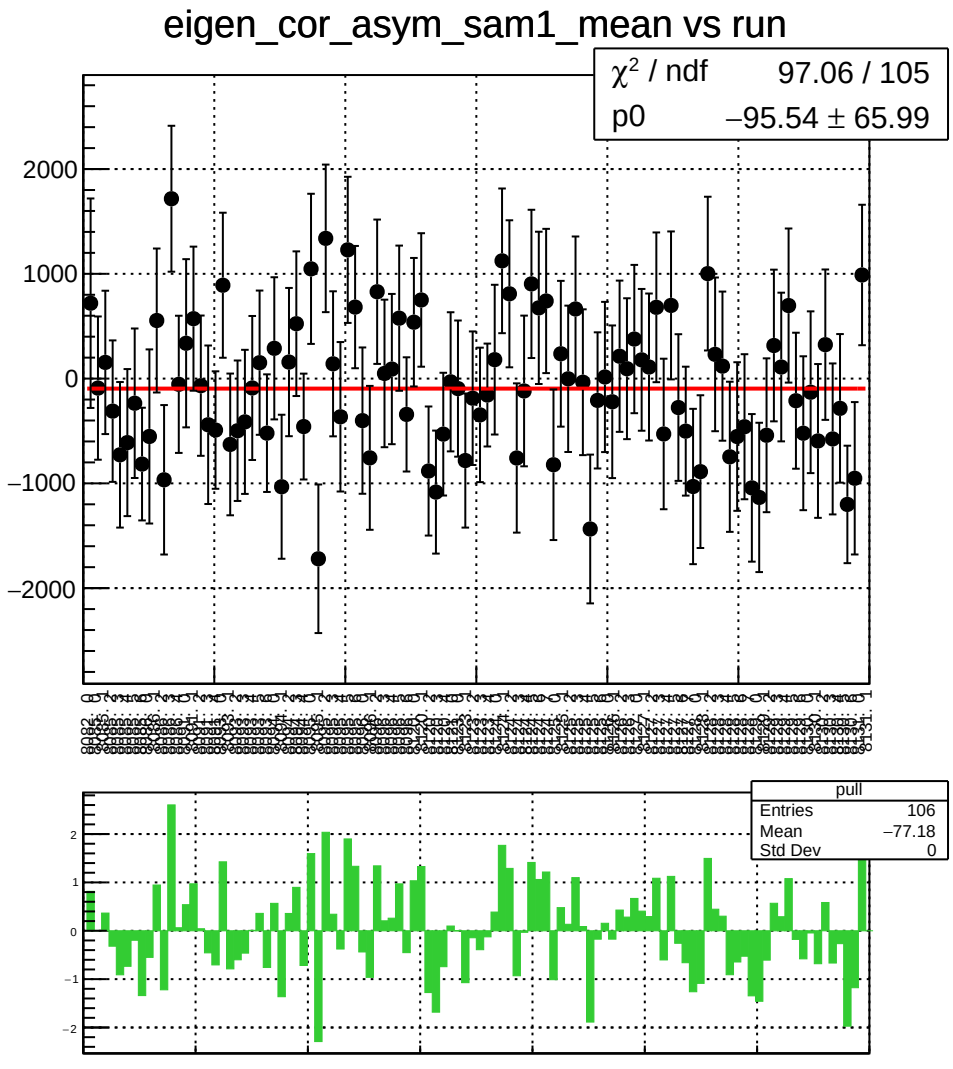

pull1D
Entries 106
Mean 0.01848
Std Dev 0.9567
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

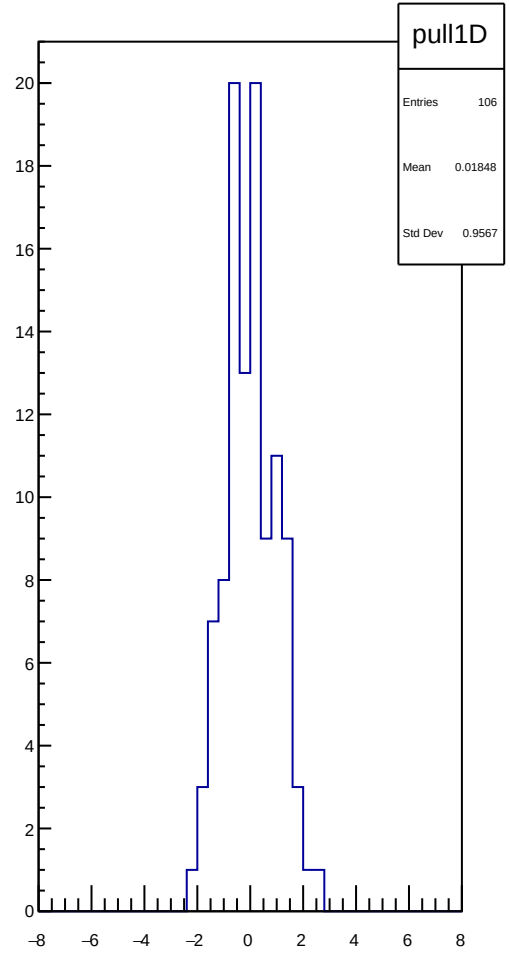

cor_asym_sam1_rms vs run
χ² / ndf 4851 / 105
p0 66.29 ± 0.04666
80
75
70
65
60
55

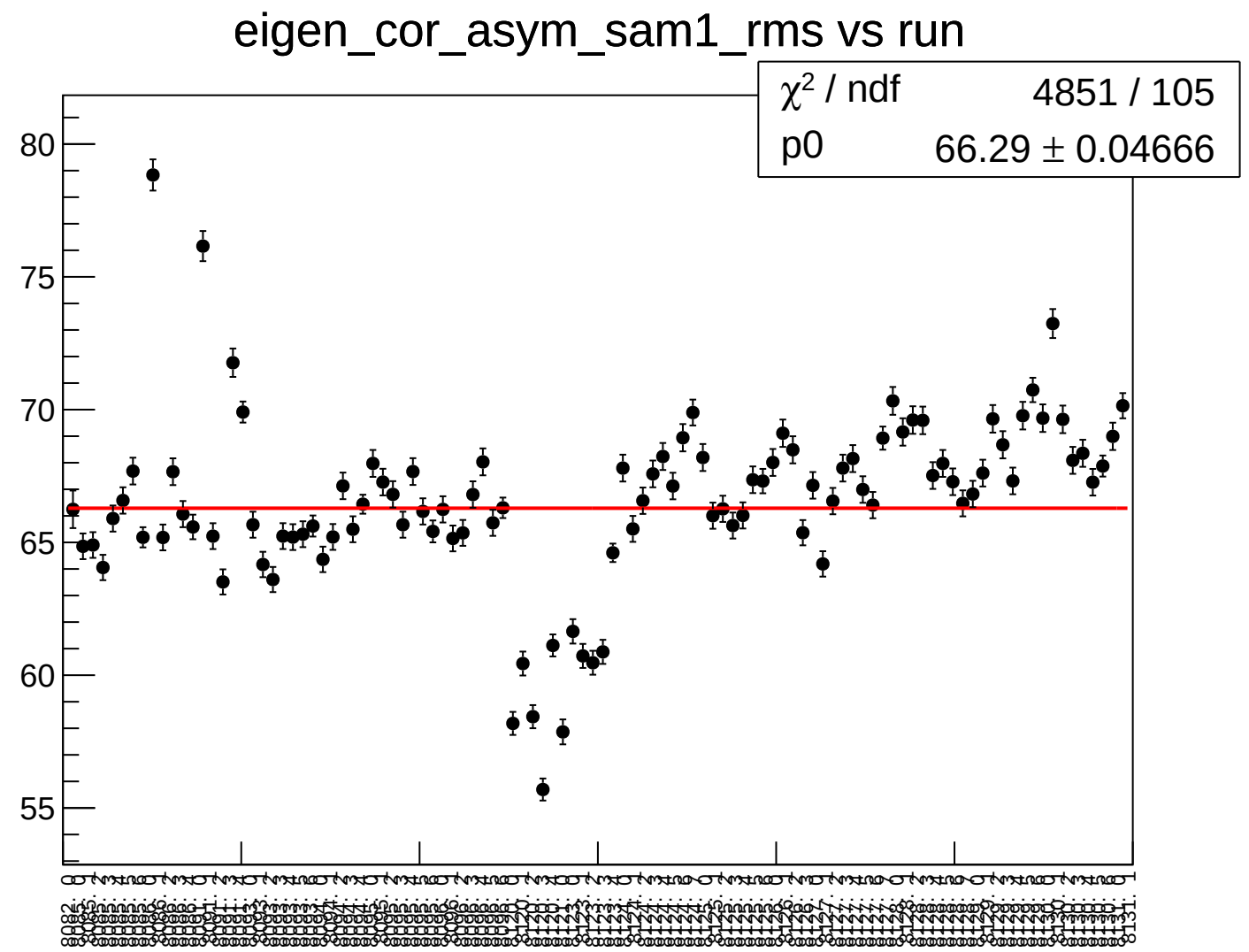

asym_sam1_cor_correction_mean vs run
χ² / ndf 91 / 105
p0 −159 ± 356.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 106
Mean −231.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

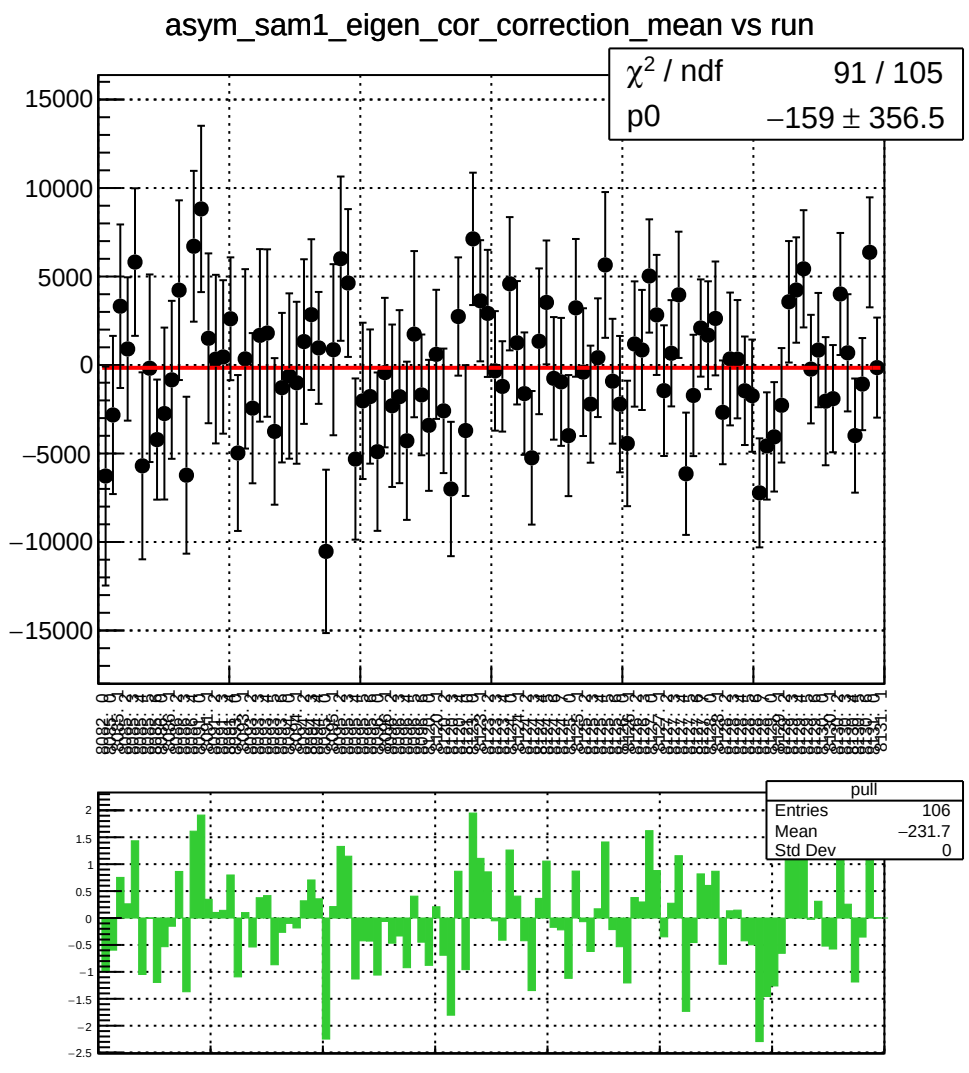

pull1D
Entries 106
Mean −0.003504
Std Dev 0.9265
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

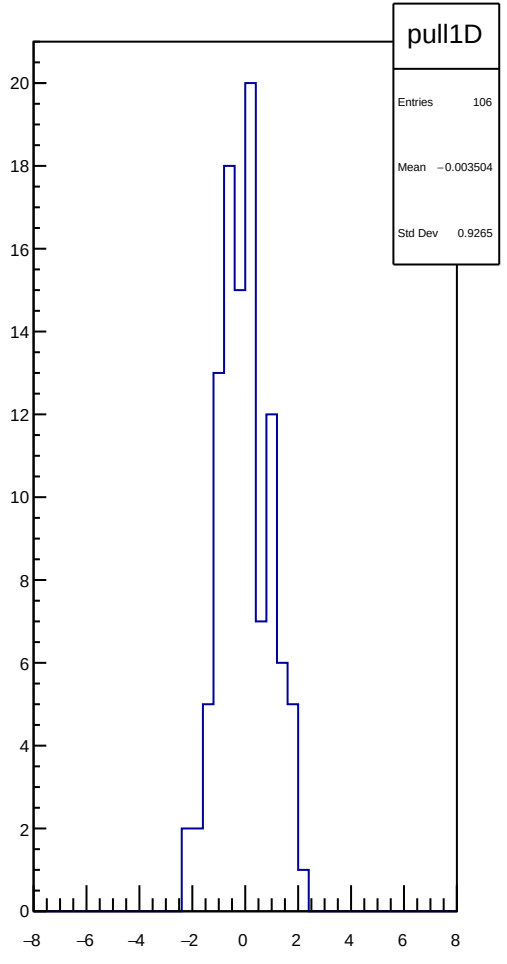

asym_sam1_cor_correction_rms vs run
$\chi^2$ / ndf 4.882e+04 / 105
p0 354.2 ± 0.2521
500
450
400
350
300

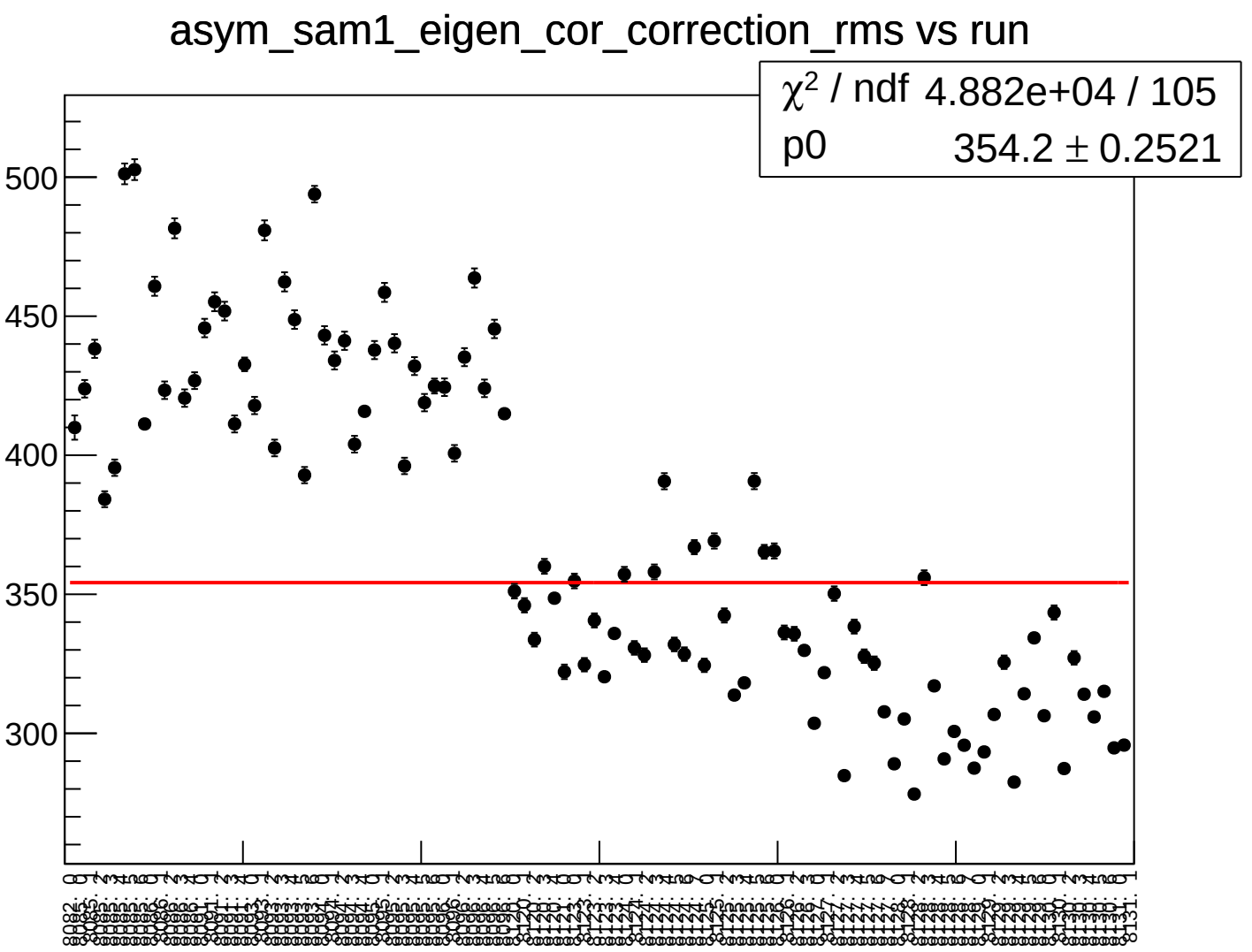

eigen_cor_asym_sam1_mean vs run
χ² / ndf 97.06 / 105
p0 −95.54 ± 65.99
2000
1000
0
−1000
−2000
pull
Entries 106
Mean −77.18
Std Dev 0
2
1
0
−1
−2

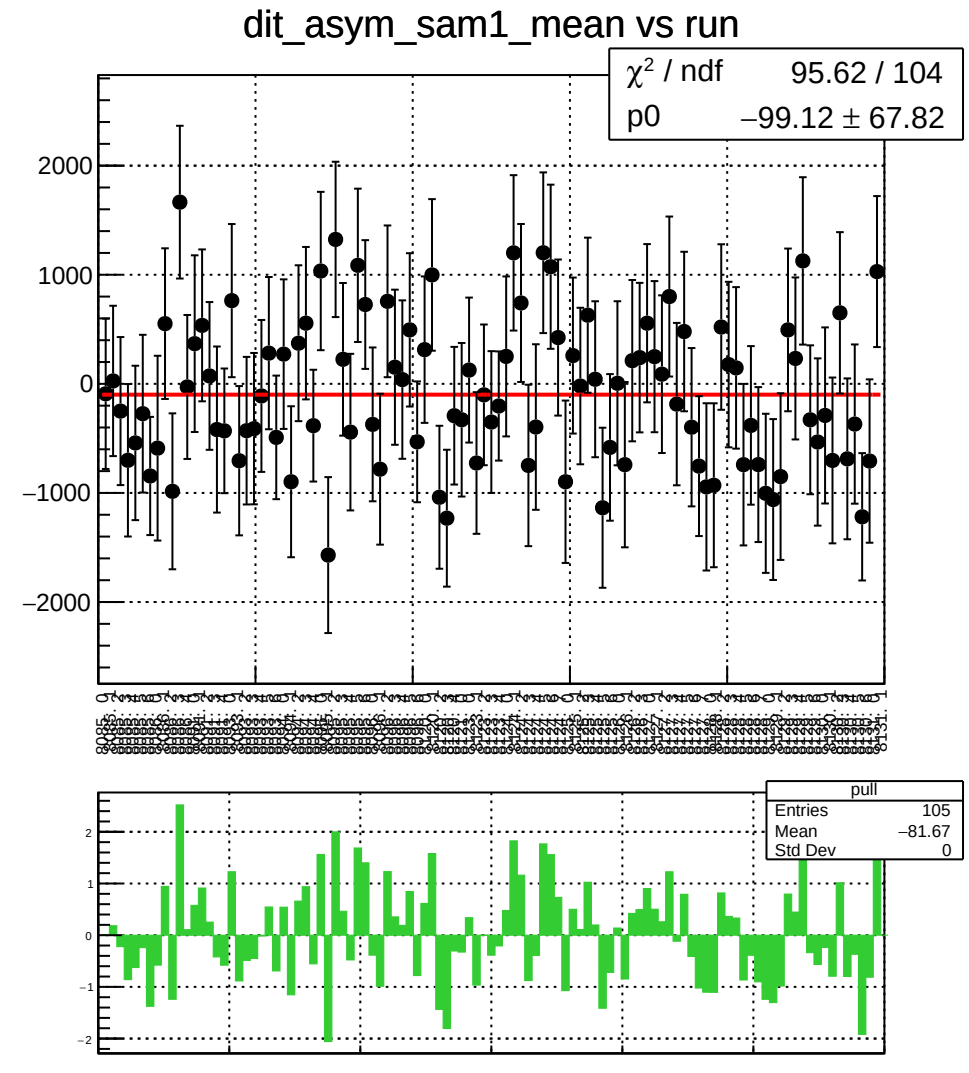

pull1D
Entries 106
Mean 0.01848
Std Dev 0.9567
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

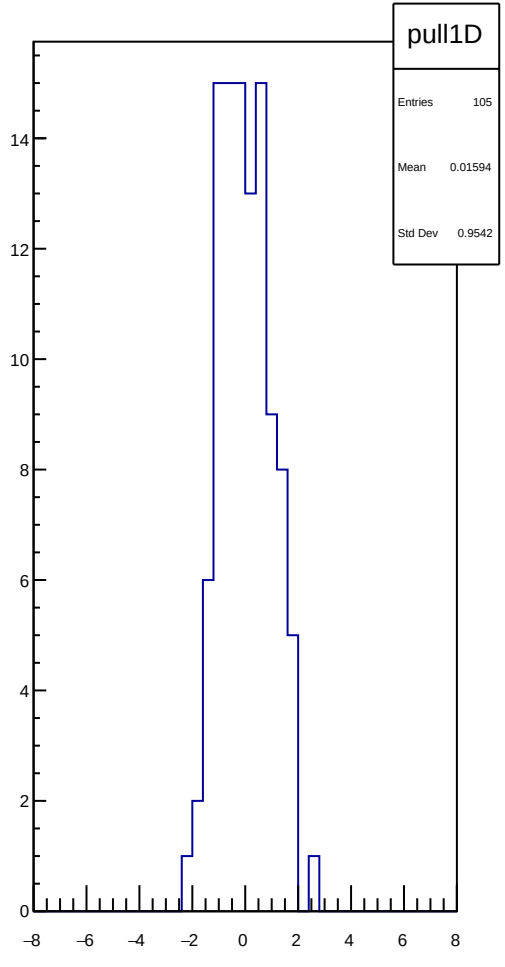

eigen_cor_asym_sam1_rms vs run
χ² / ndf 4851 / 105
p0 66.29 ± 0.04666
80
75
70
65
60
55

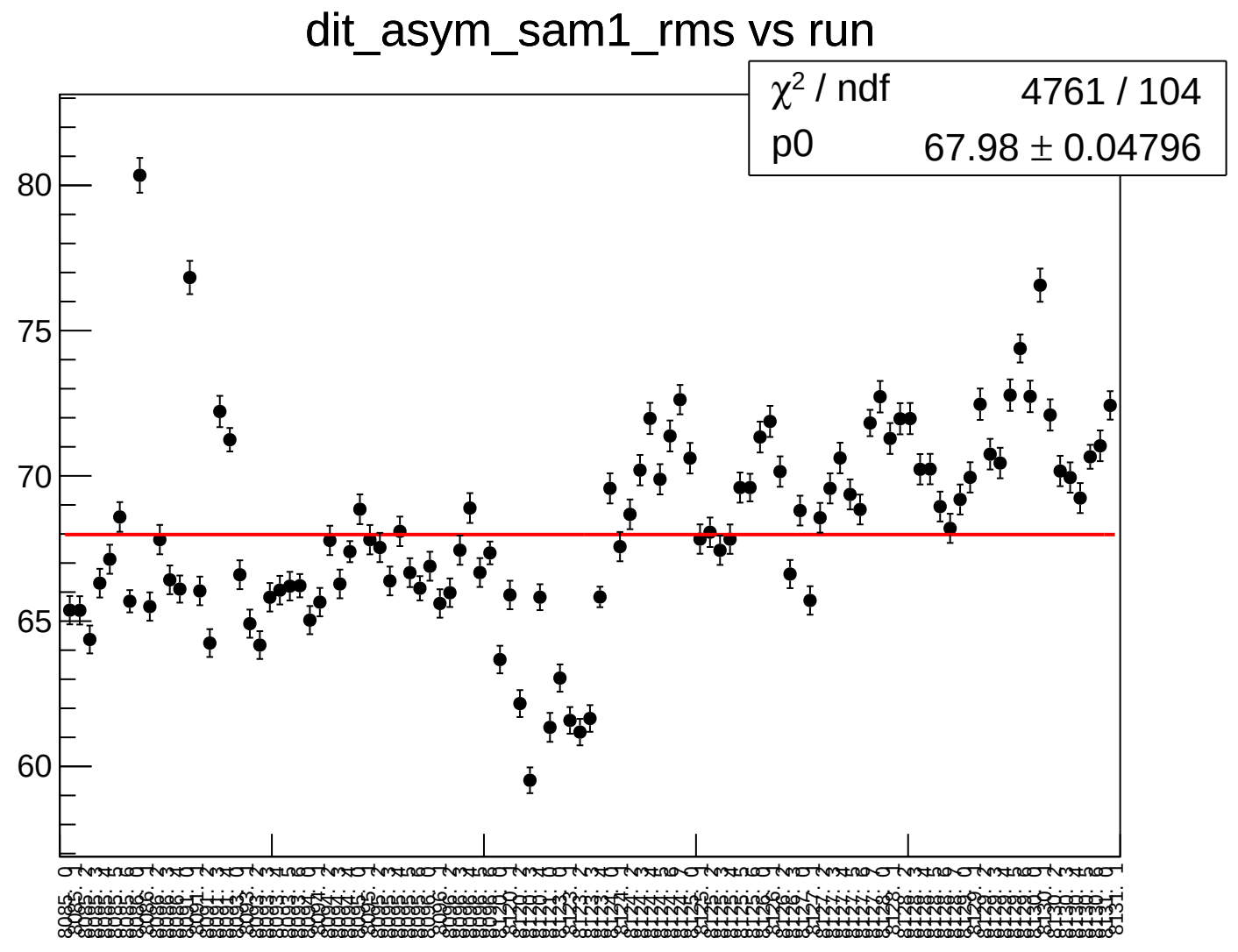

asym_sam1_eigen_cor_correction_mean vs run
χ² / ndf 91 / 105
p0 −159 ± 356.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 106
Mean −231.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

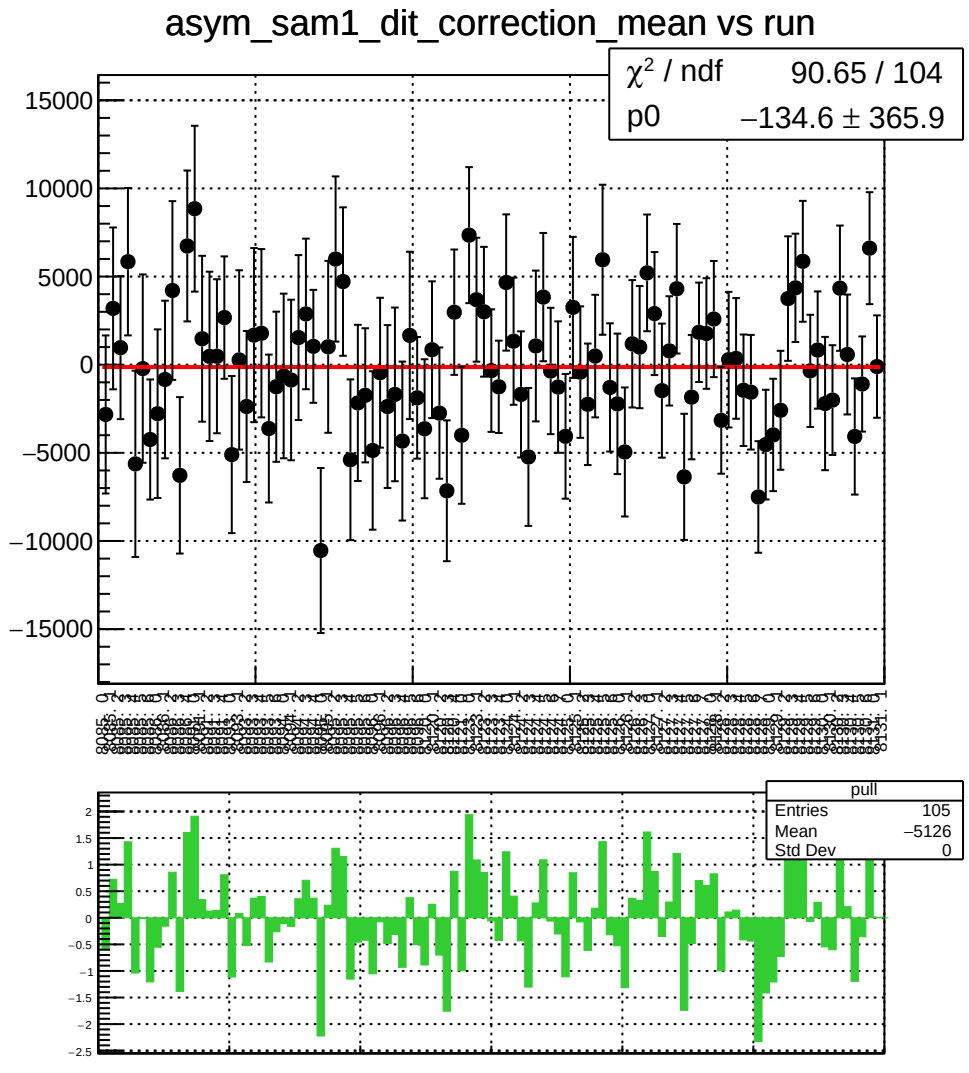

pull1D
Entries 106
Mean −0.003504
Std Dev 0.9265
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

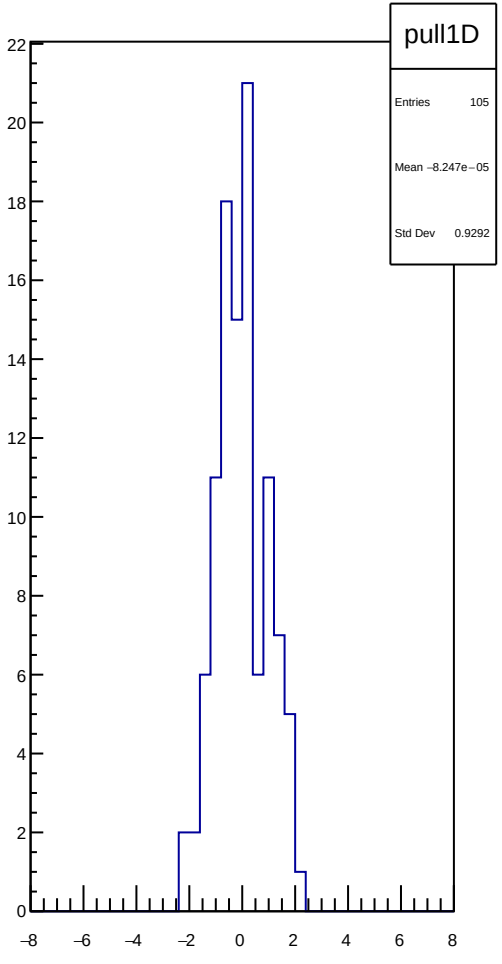

asym_sam1_eigen_cor_correction_rms vs run
χ² / ndf 4.882e+04 / 105
p0 354.2 ± 0.2521
500
450
400
350
300

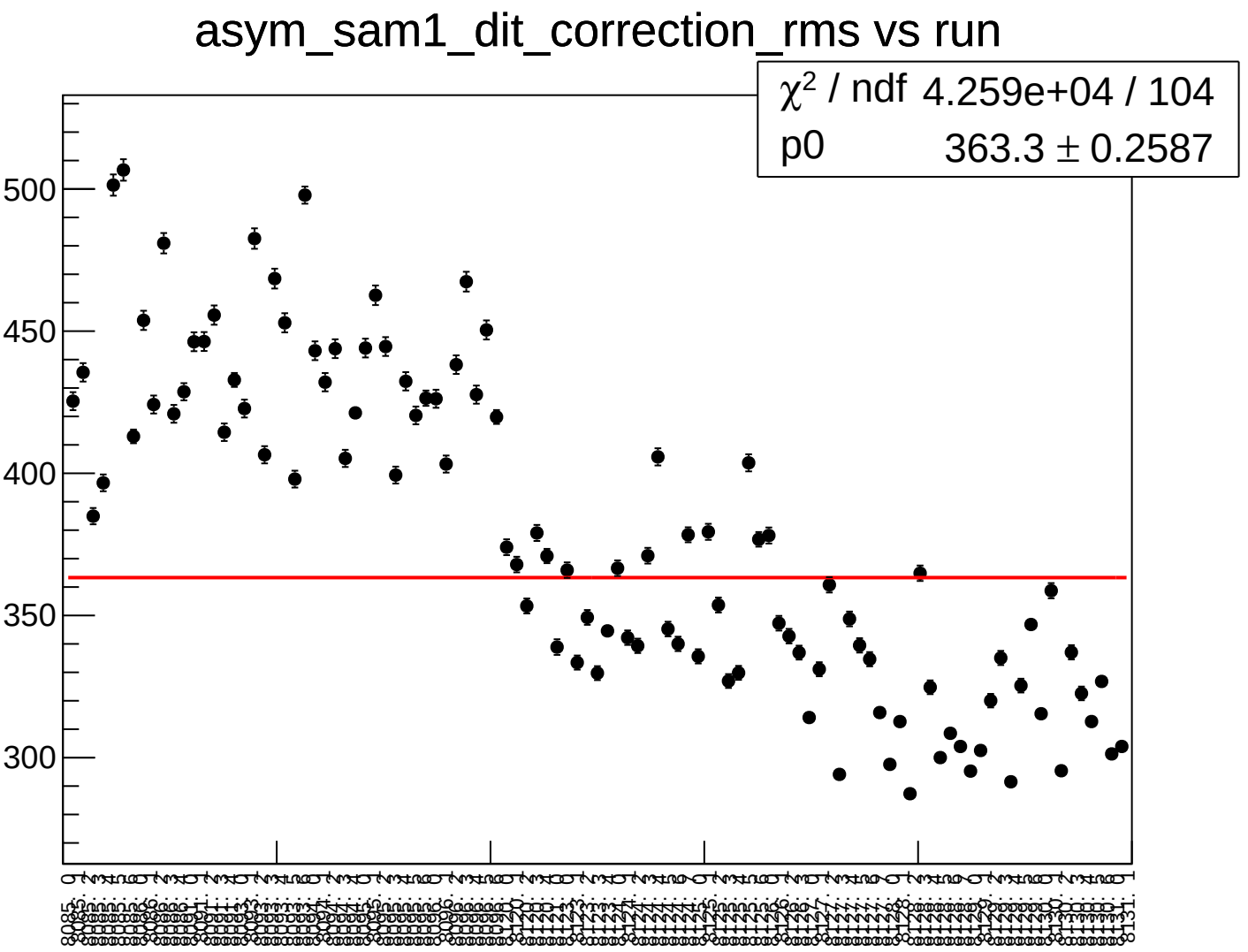

dit_asym_sam1_mean vs run
χ² / ndf 95.62 / 104
p0 −99.12 ± 67.82
2000
1000
0
−1000
−2000
pull
Entries 105
Mean −81.67
Std Dev 0
2
1
0
−1
−2

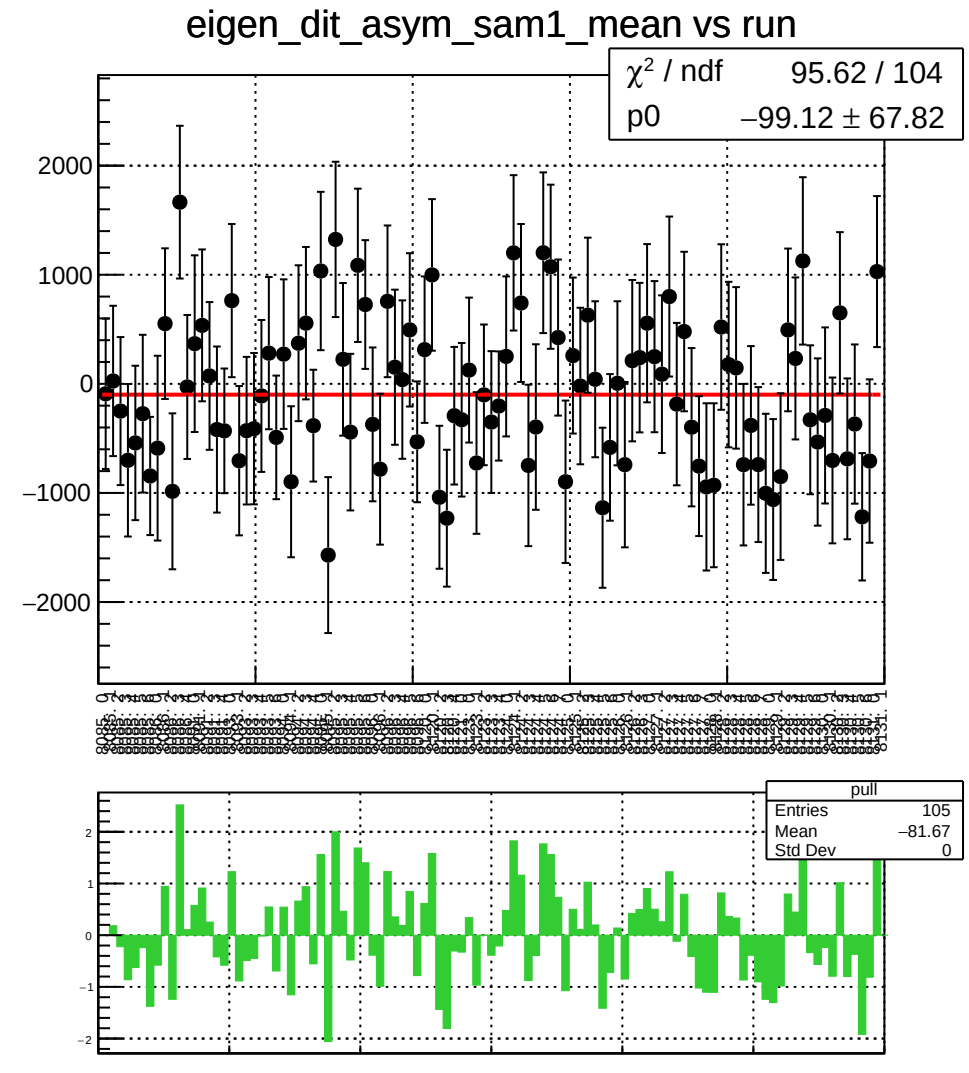

pull1D
Entries 105
Mean 0.01594
Std Dev 0.9542
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

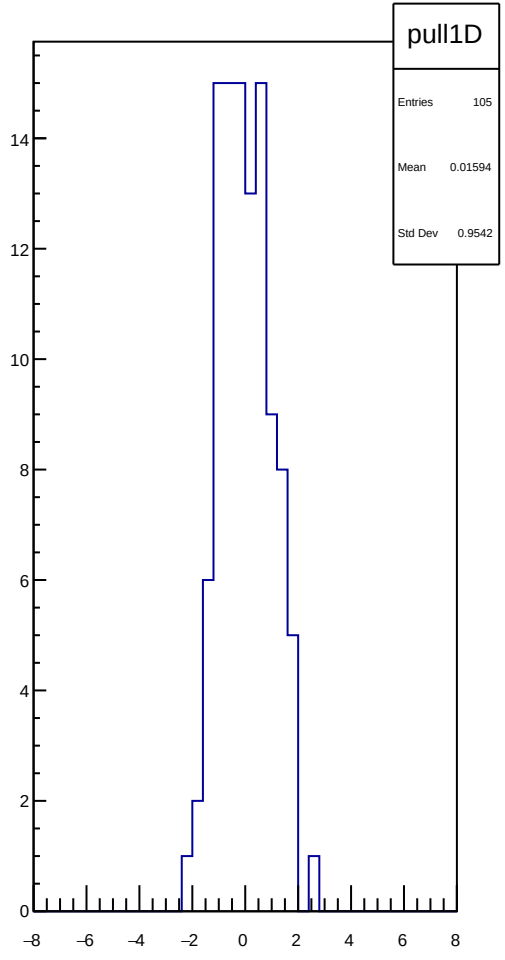

dit_asym_sam1_rms vs run
χ² / ndf 4761 / 104
p0 67.98 ± 0.04796
80
75
70
65
60

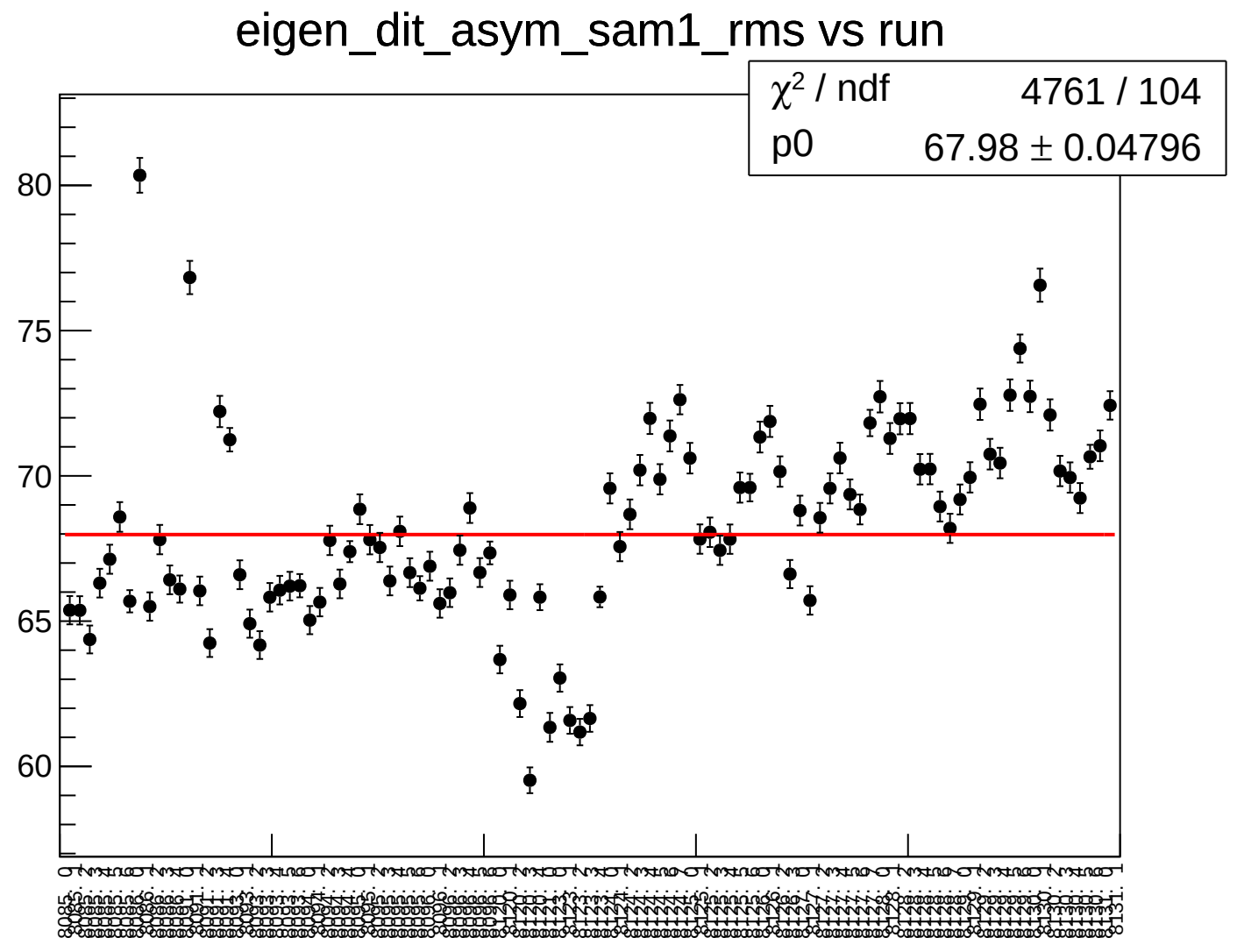

asym_sam1_dit_correction_mean vs run
χ² / ndf 90.65 / 104
p0 −134.6 ± 365.9
pull
Entries 105
Mean −5126
Std Dev 0

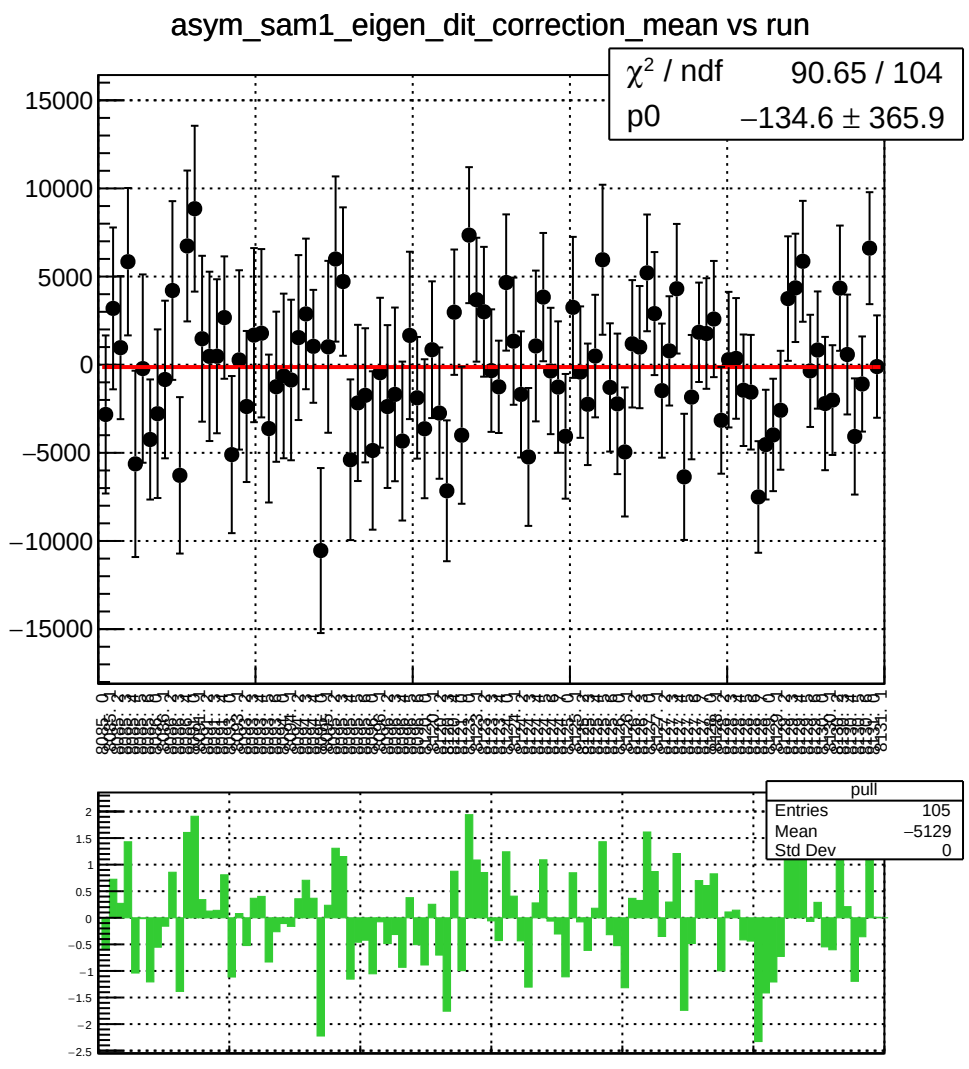

pull1D
Entries 105
Mean −8.247e−05
Std Dev 0.9292

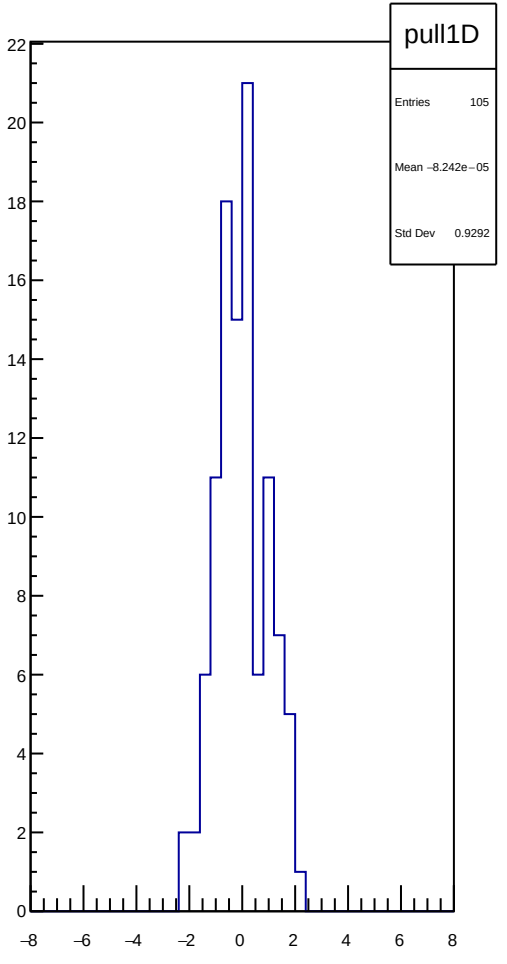

asym_sam1_dit_correction_rms vs run
χ² / ndf 4.259e+04 / 104
p0 363.3 ± 0.2587
500
450
400
350
300

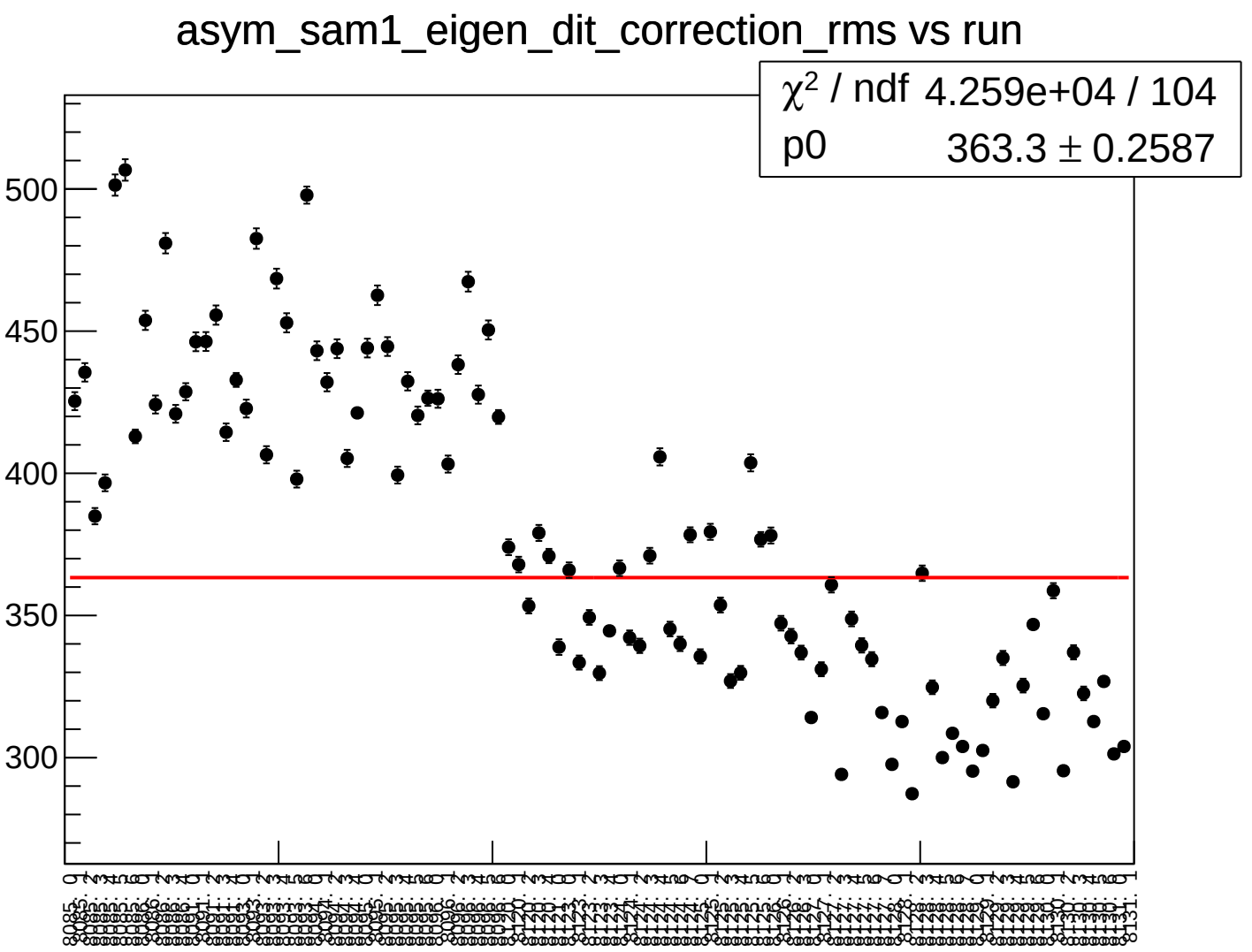

eigen_dit_asym_sam1_mean vs run
χ² / ndf 95.62 / 104
p0 −99.12 ± 67.82
2000
1000
0
−1000
−2000
pull
Entries 105
Mean −81.67
Std Dev 0
2
1
0
−1
−2

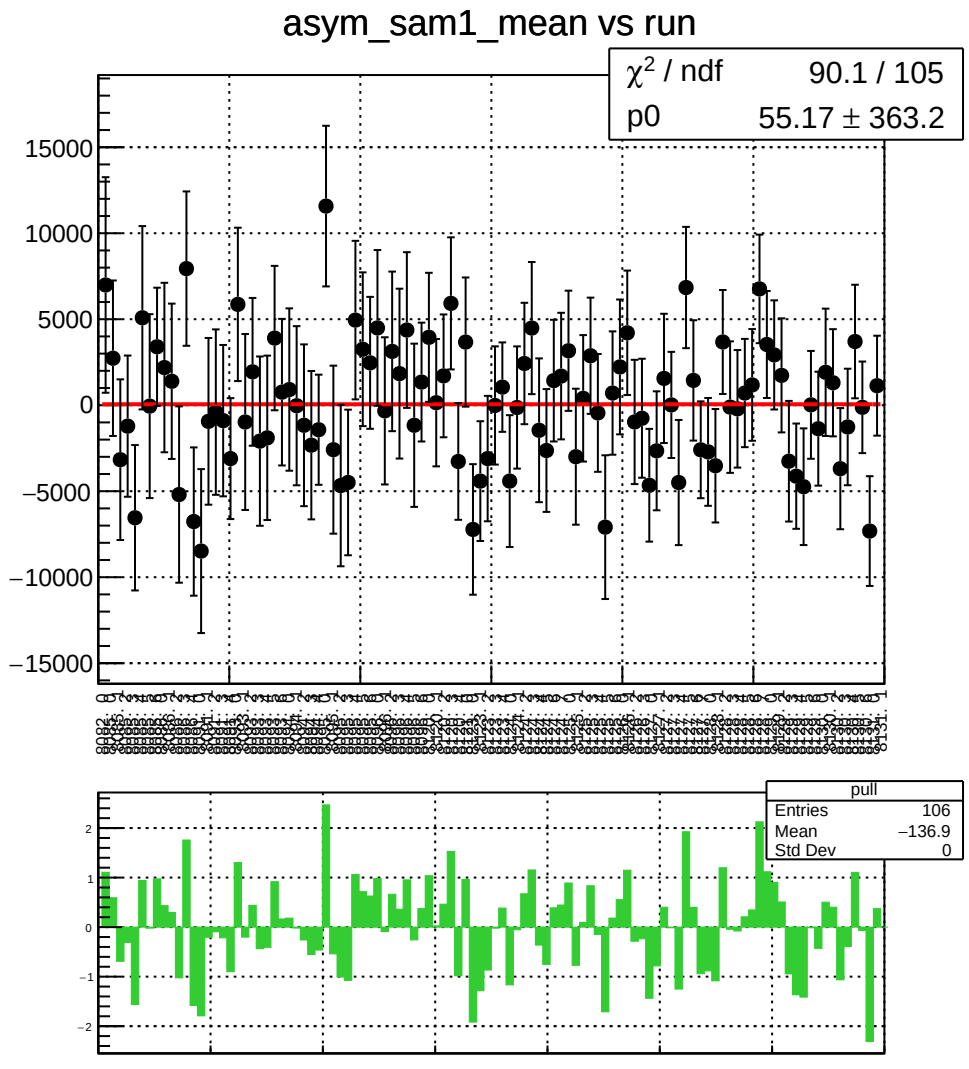

pull1D
Entries 105
Mean 0.01594
Std Dev 0.9542
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

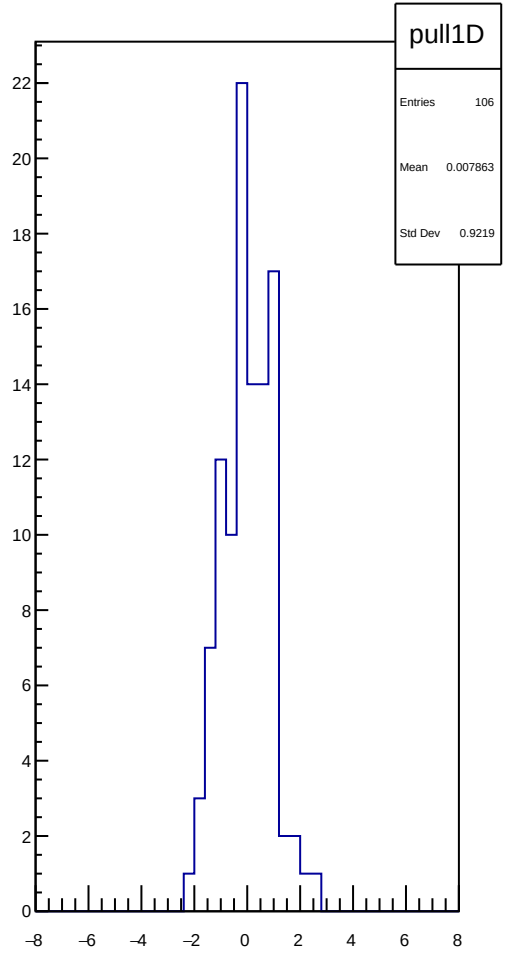

eigen_dit_asym_sam1_rms vs run
χ² / ndf 4761 / 104
p0 67.98 ± 0.04796
80
75
70
65
60

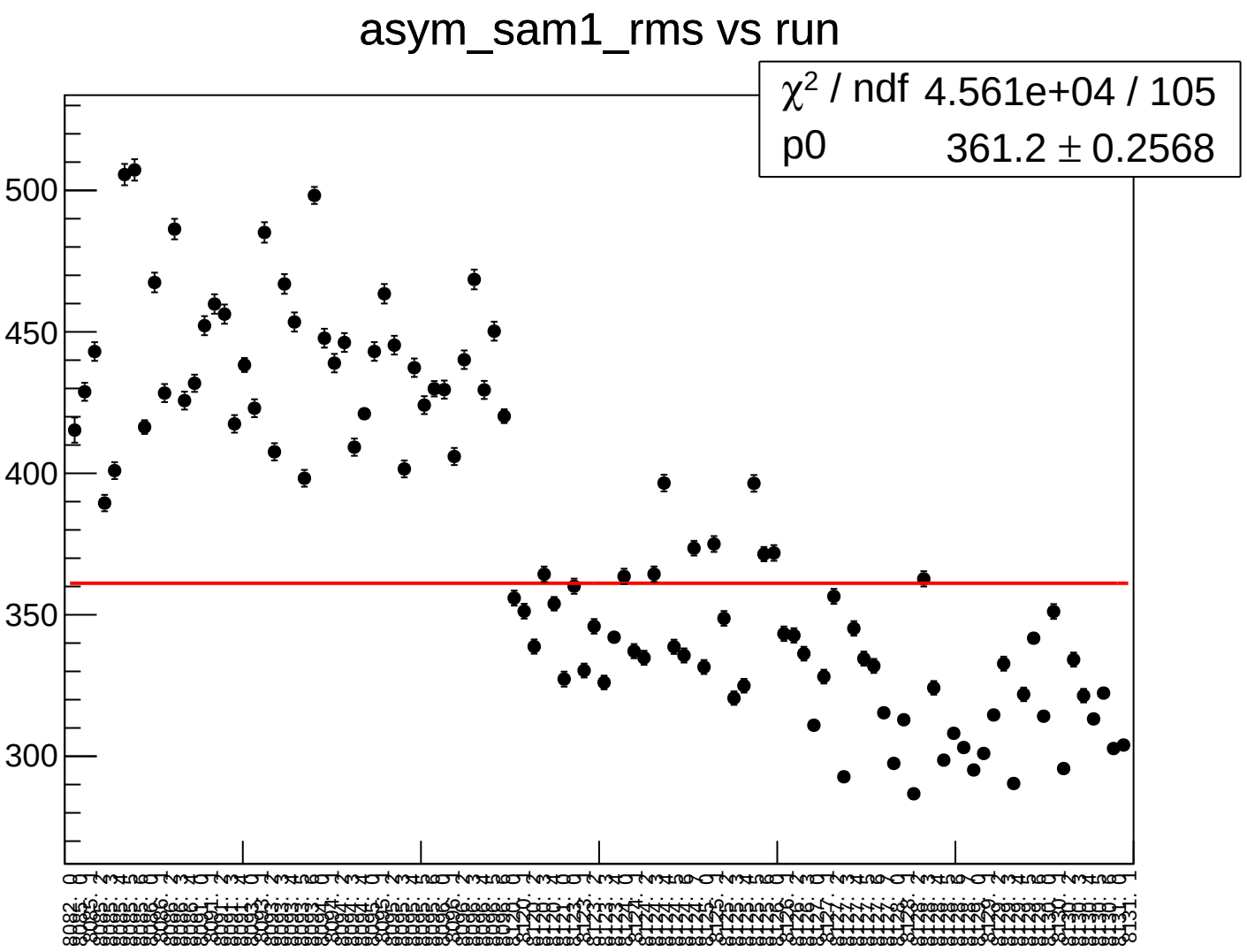

asym_sam1_eigen_dit_correction_mean vs run
χ² / ndf 90.65 / 104
p0 −134.6 ± 365.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 105
Mean −5129
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

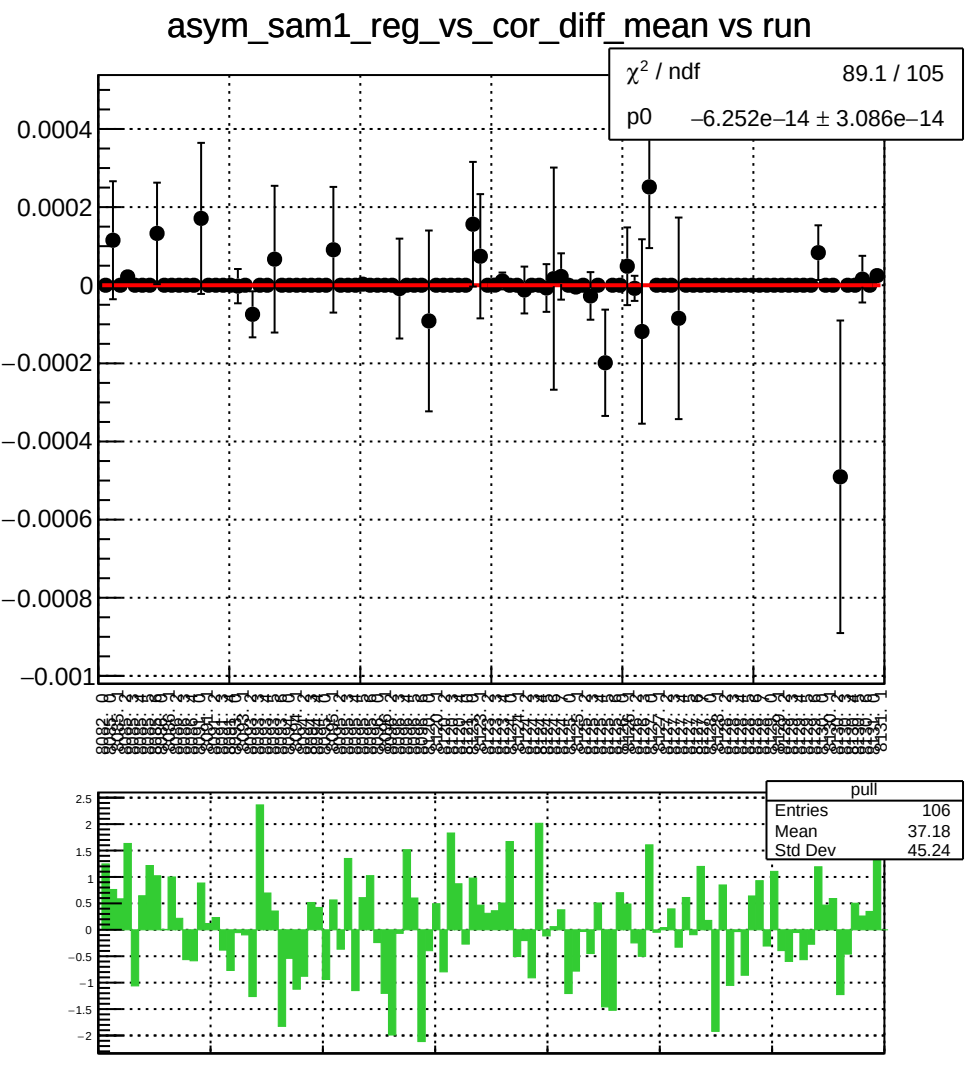

pull1D
Entries 105
Mean −8.242e−05
Std Dev 0.9292
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

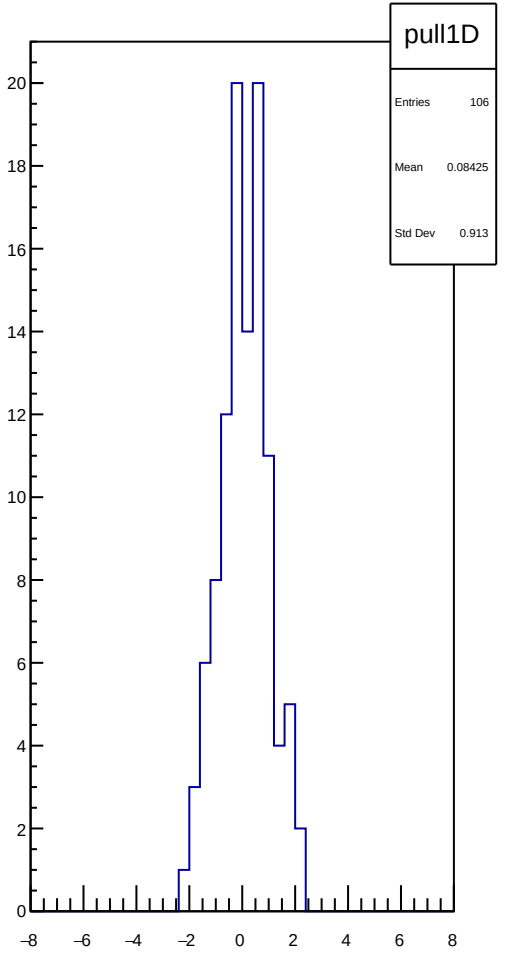

asym_sam1_eigen_dit_correction_rms vs run
χ² / ndf 4.259e+04 / 104
p0 363.3 ± 0.2587
500
450
400
350
300

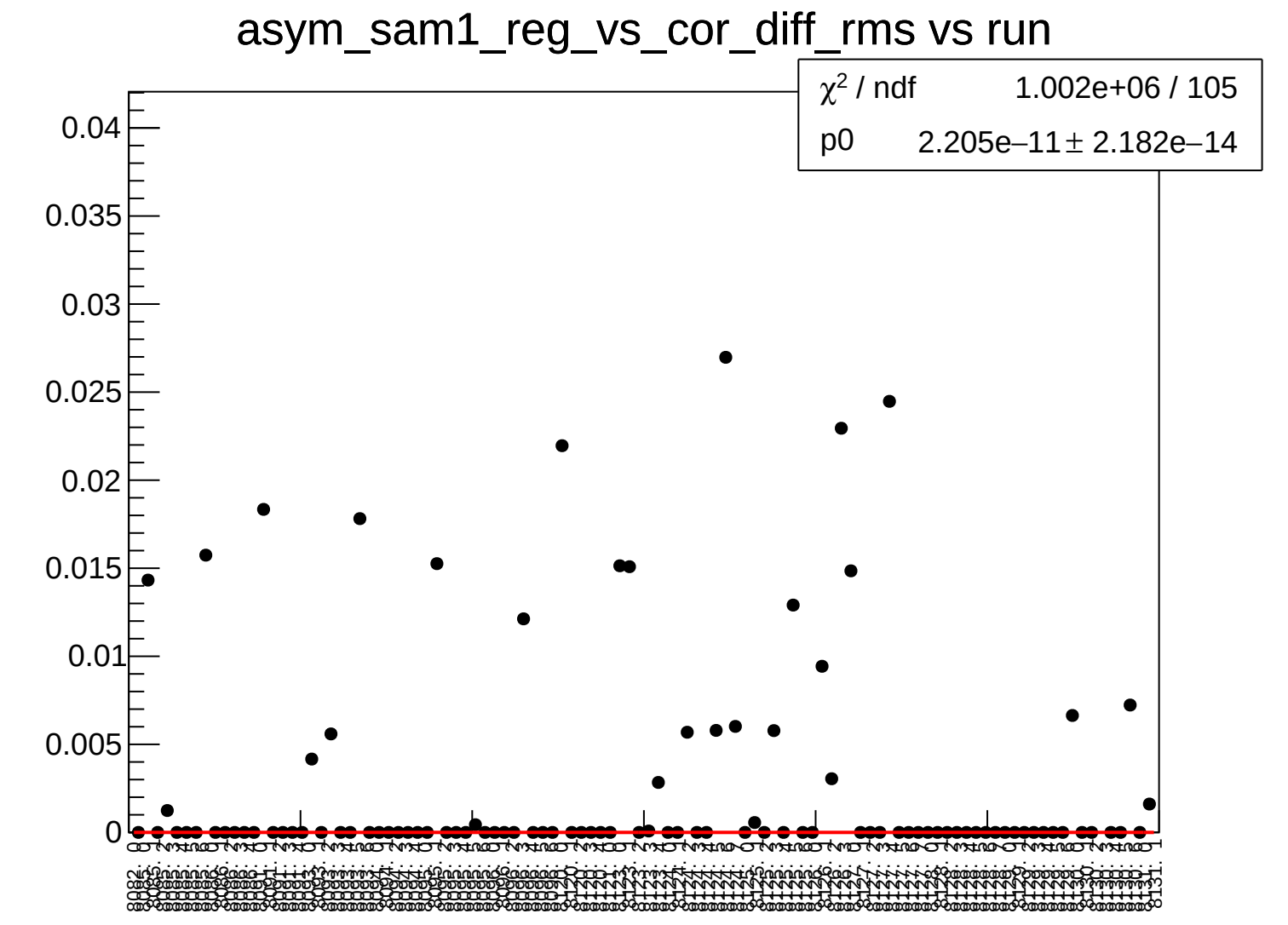

asym_sam1_mean vs run
χ² / ndf 90.1 / 105
p0 55.17 ± 363.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 106
Mean −136.9
Std Dev 0
2
1
0
−1
−2

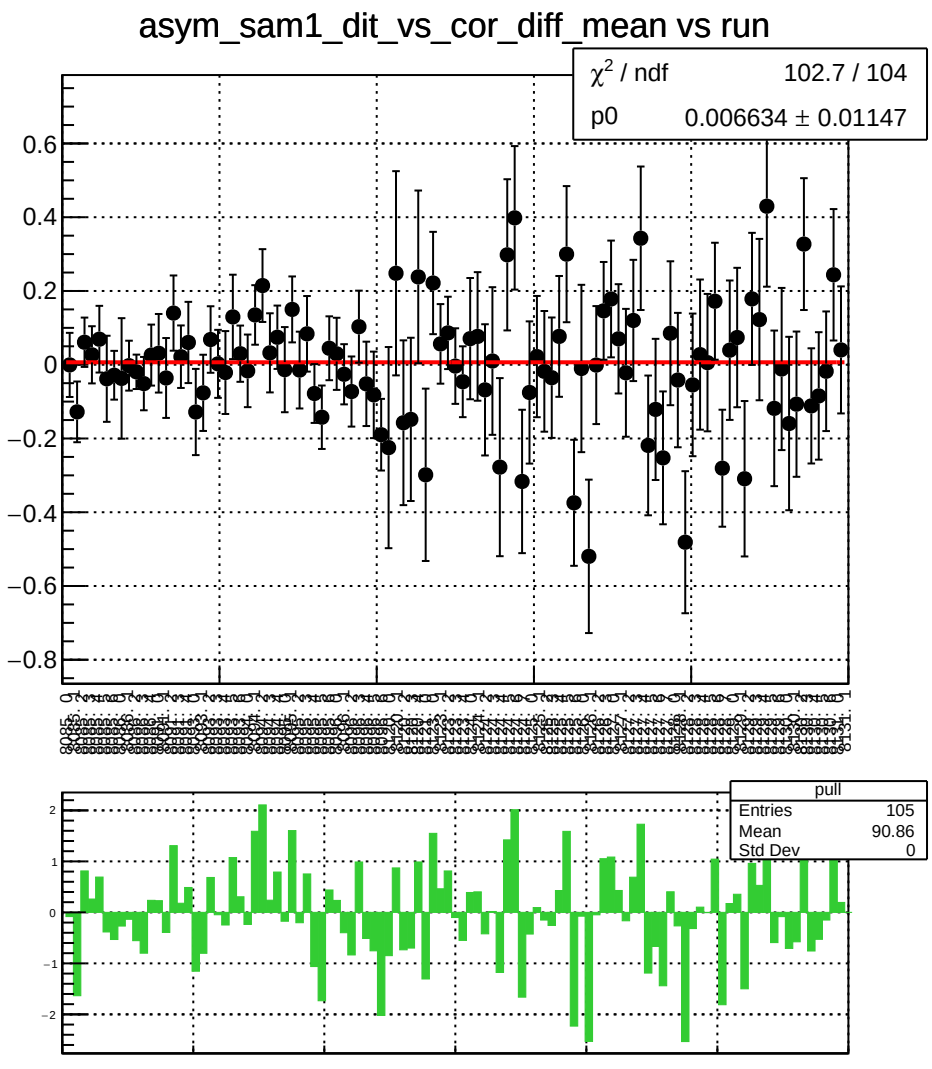

pull1D
Entries 106
Mean 0.007863
Std Dev 0.9219
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

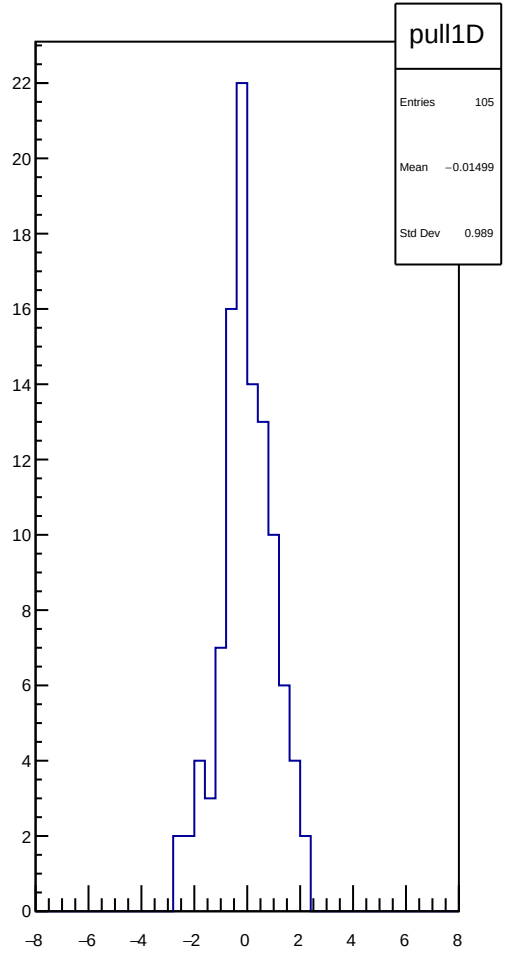

asym_sam1_rms vs run
χ² / ndf 4.561e+04 / 105
p0 361.2 ± 0.2568
500
450
400
350
300

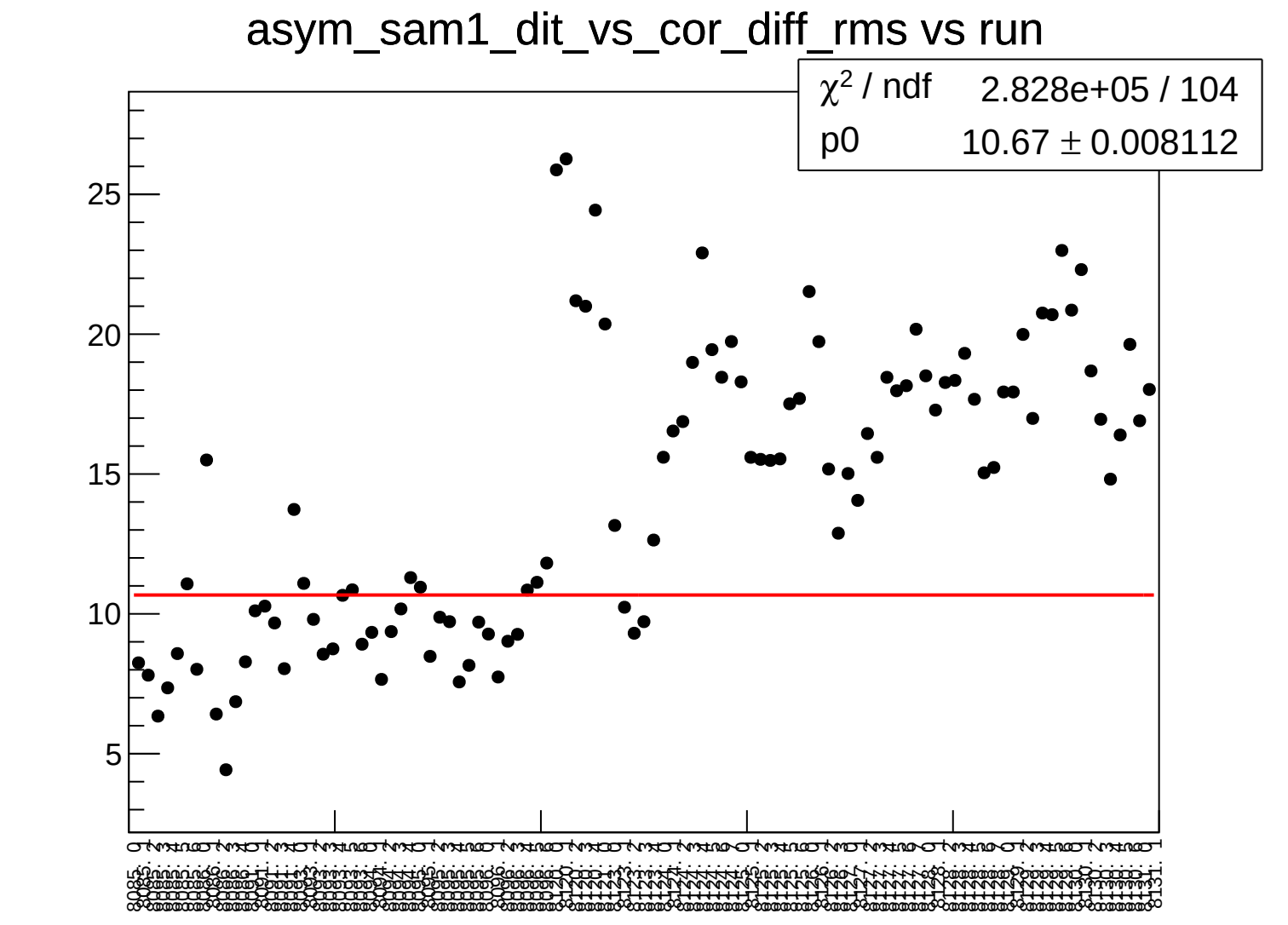

asym_sam1_reg_vs_cor_diff_mean vs run
χ² / ndf 89.1 / 105
p0 −6.252e−14 ± 3.086e−14
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 106
Mean 37.18
Std Dev 45.24
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

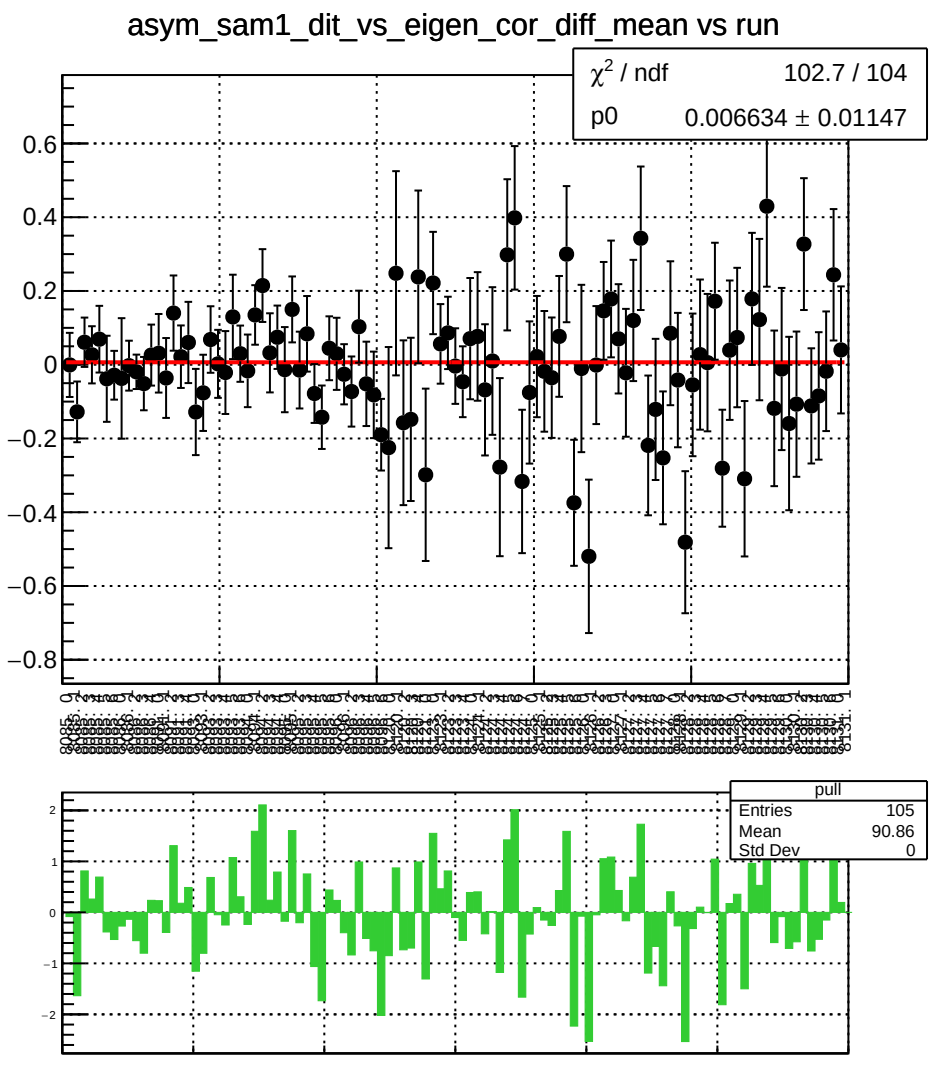

pull1D
Entries 106
Mean 0.08425
Std Dev 0.913
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

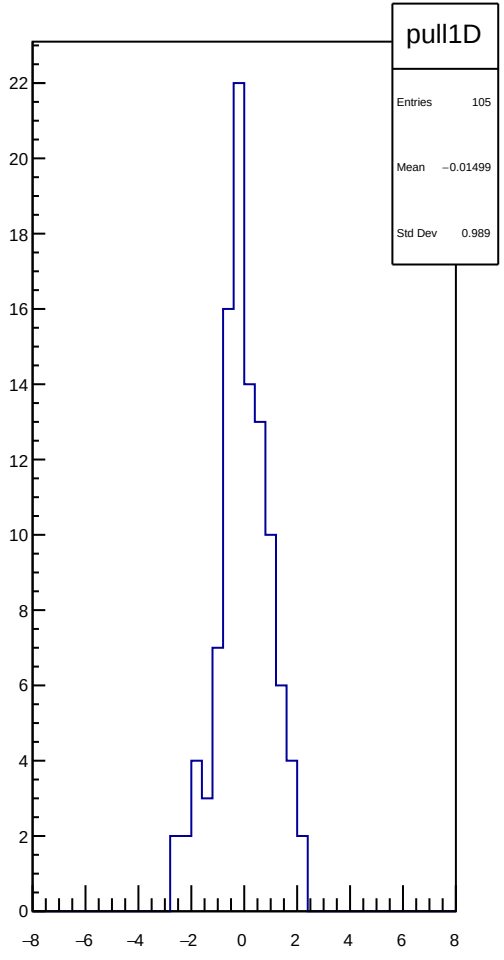

asym_sam1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.002e+06 / 105
p0 2.205e−11 ± 2.182e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

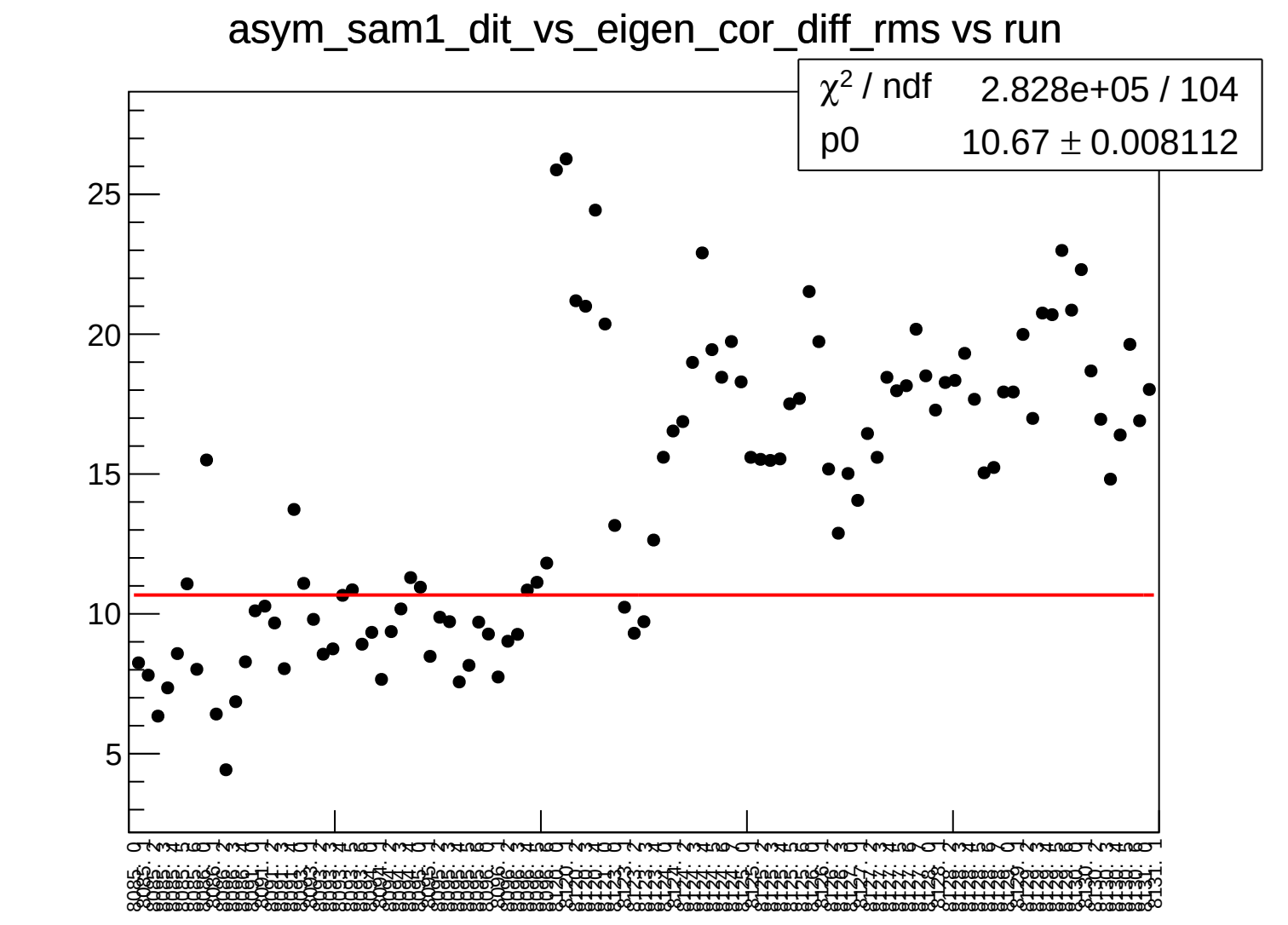

asym_sam1_dit_vs_cor_diff_mean vs run
χ² / ndf 102.7 / 104
p0 0.006634 ± 0.01147
pull
Entries 105
Mean 90.86
Std Dev 0

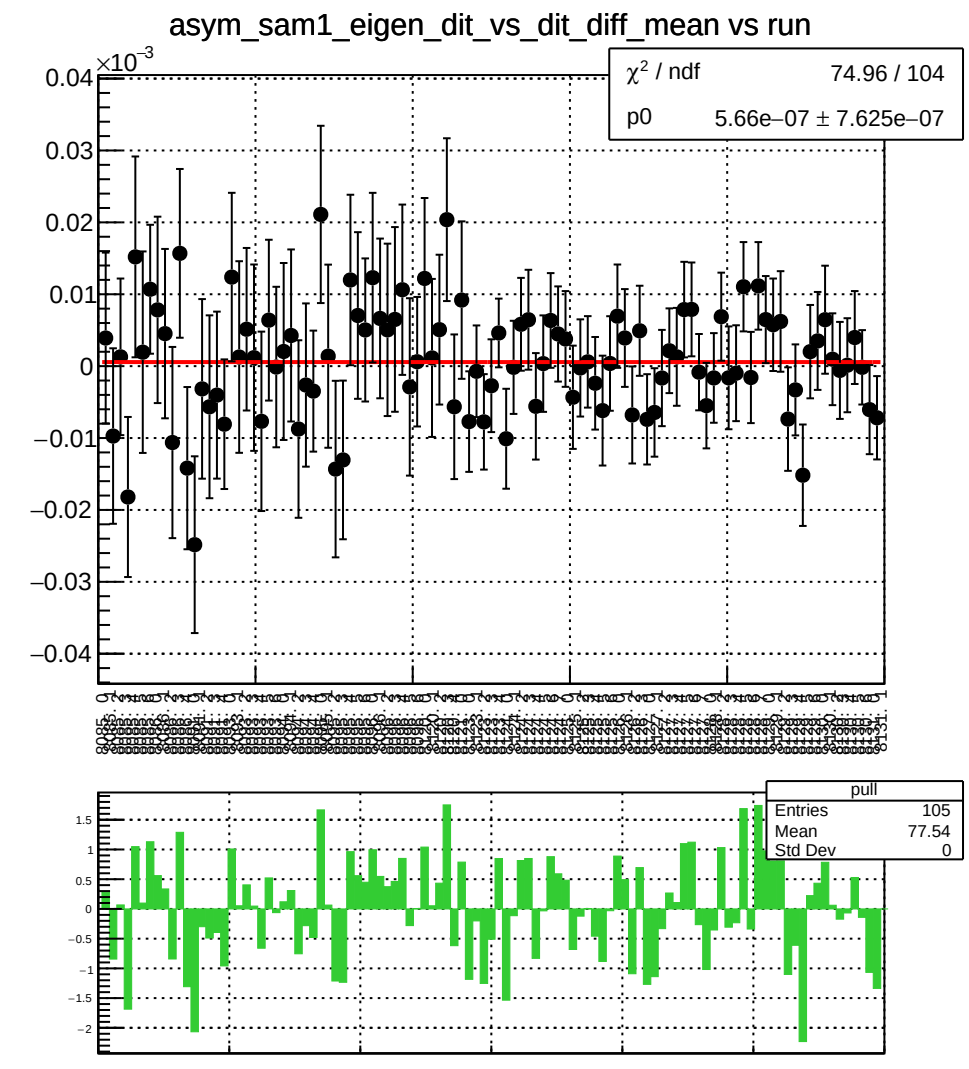

pull1D
Entries 105
Mean −0.01499
Std Dev 0.989

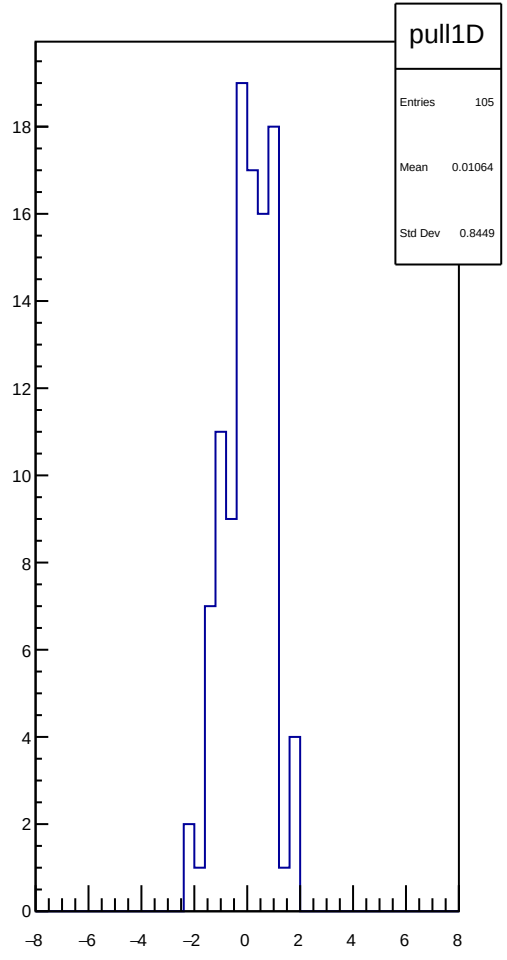

asym_sam1_dit_vs_cor_diff_rms vs run
χ² / ndf 2.828e+05 / 104
p0 10.67 ± 0.008112
25
20
15
10
5

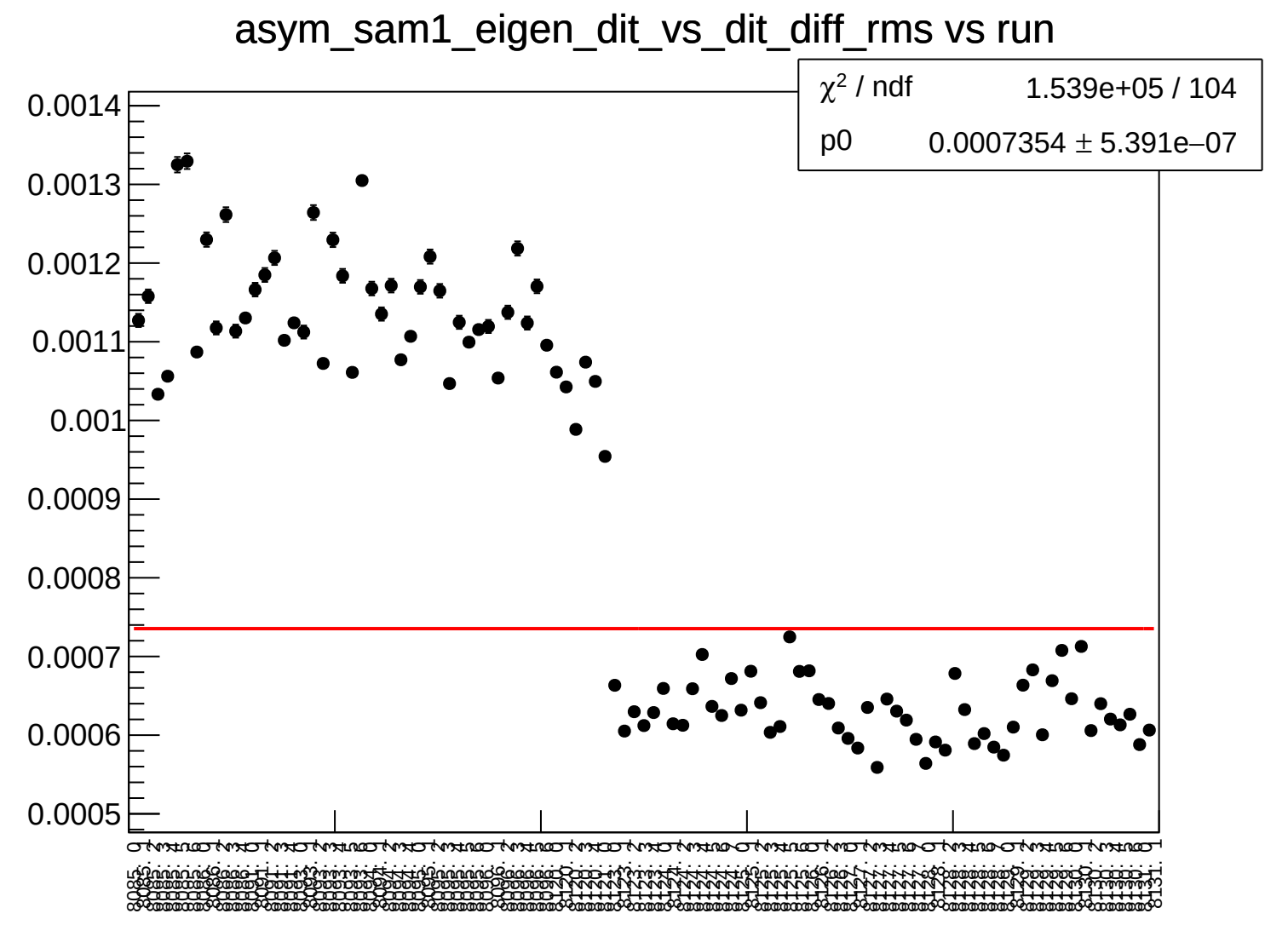

asym_sam1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.7 / 104
p0 0.006634 ± 0.01147
pull
Entries 105
Mean 90.86
Std Dev 0

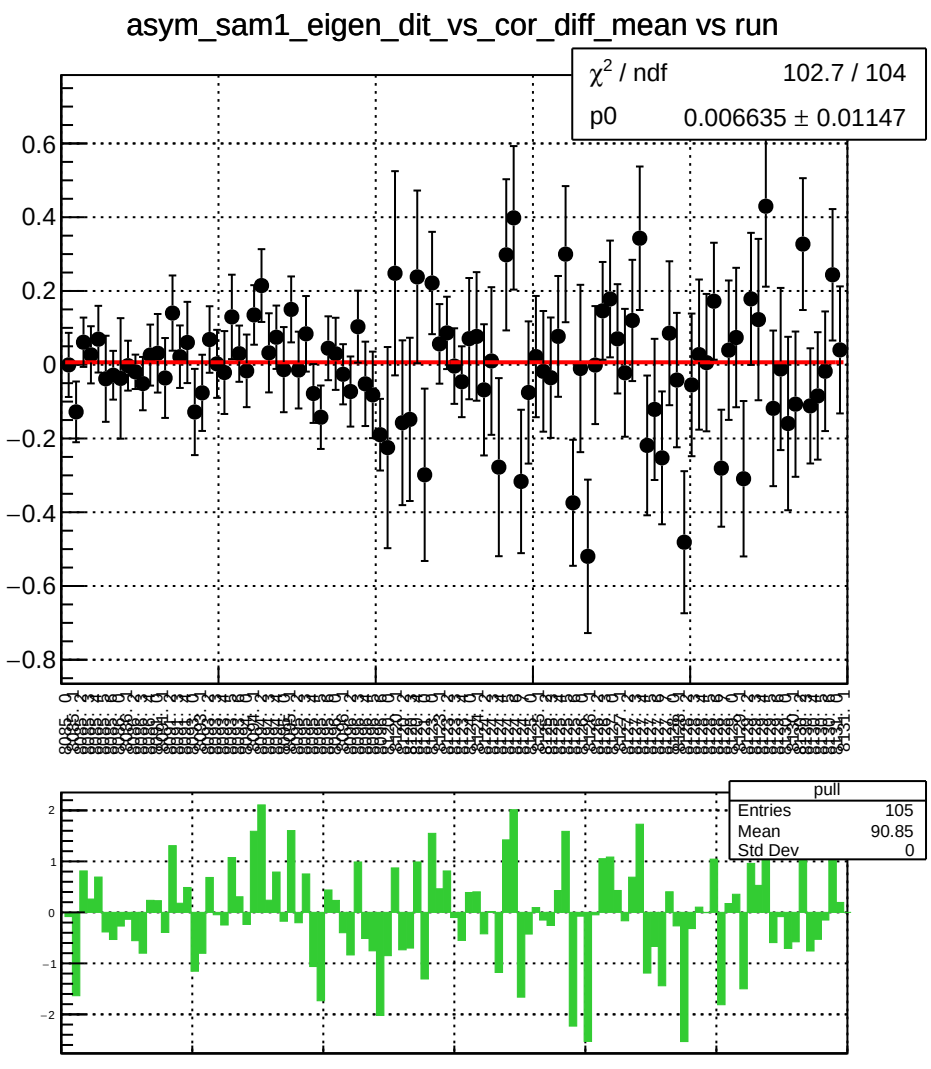

pull1D
Entries 105
Mean −0.01499
Std Dev 0.989

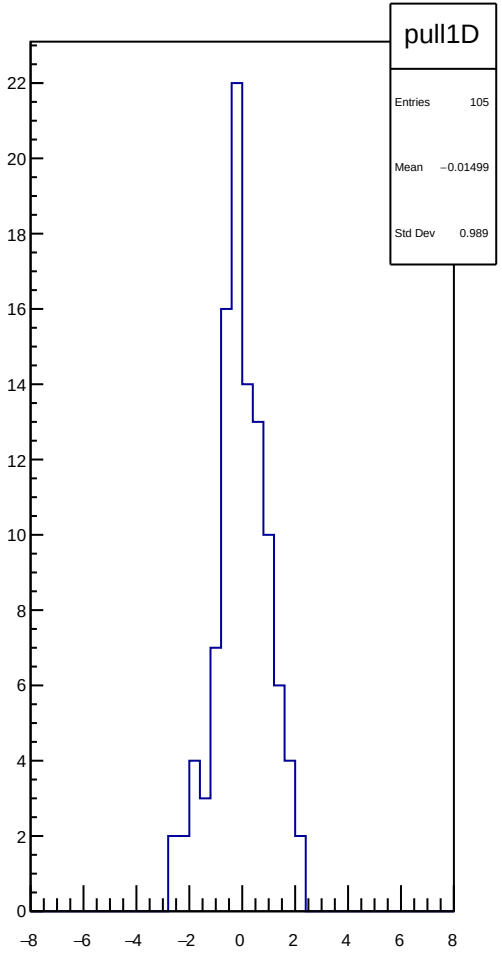

asym_sam1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.828e+05 / 104
p0 10.67 ± 0.008112
25
20
15
10
5

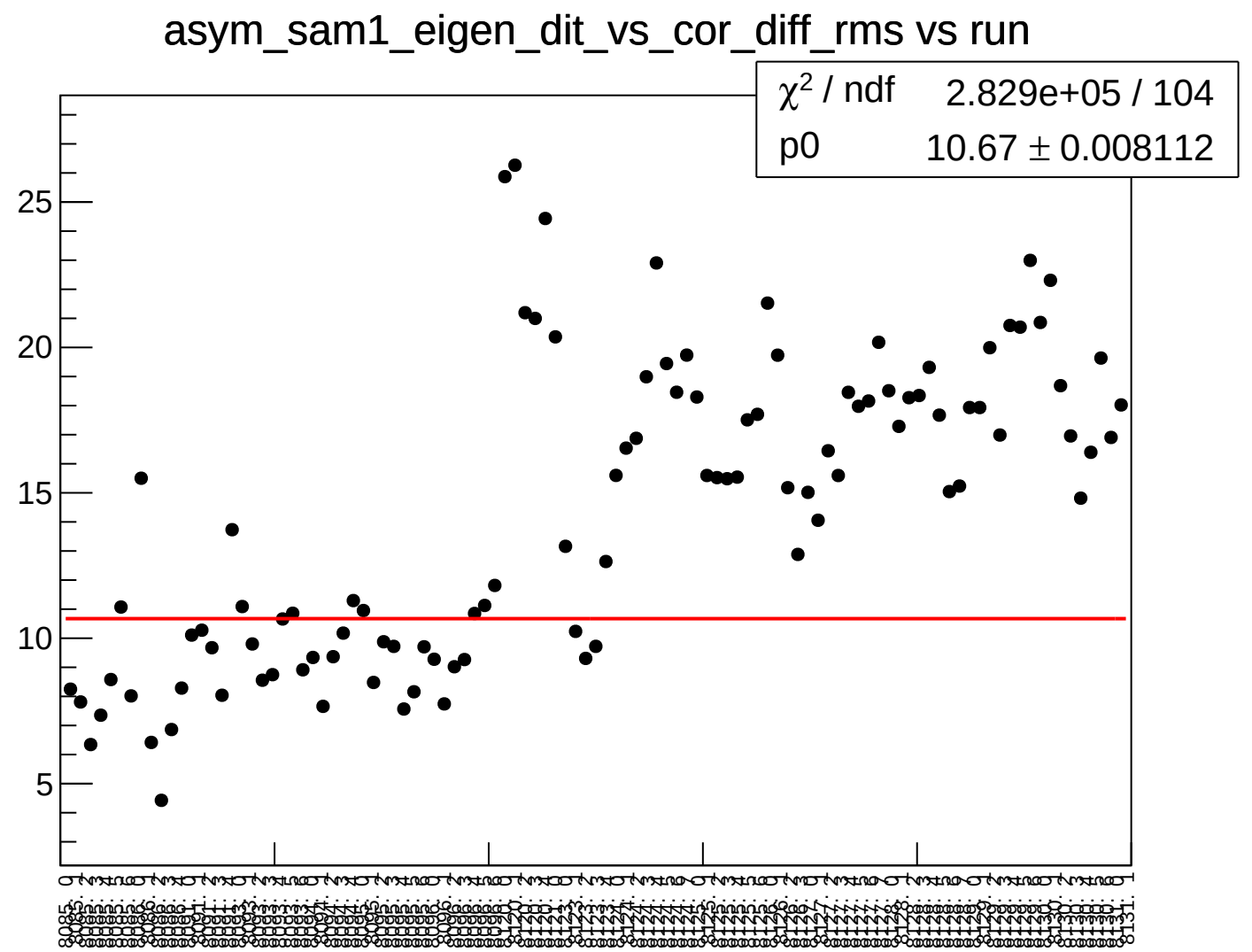

asym_sam1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 74.96 / 104
p0 5.66e−07 ± 7.625e−07
pull
Entries 105
Mean 77.54
Std Dev 0

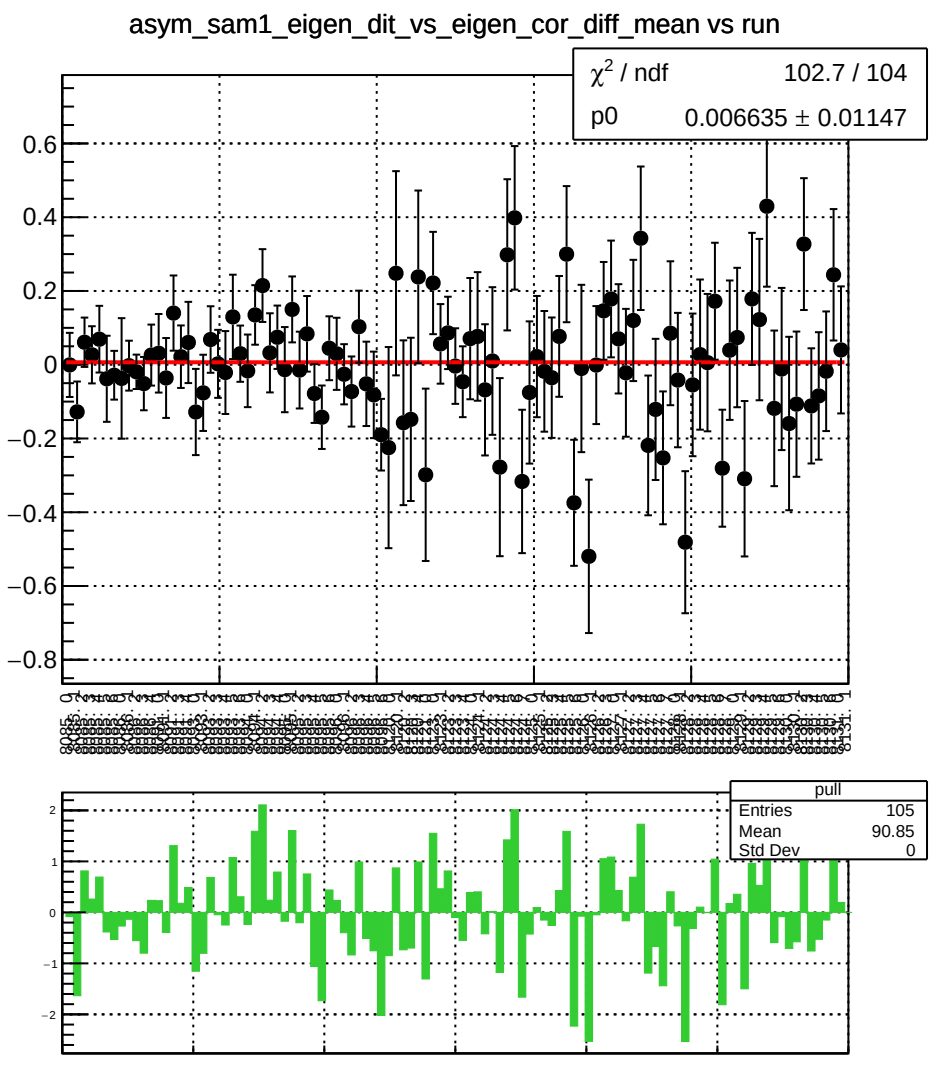

pull1D
Entries 105
Mean 0.01064
Std Dev 0.8449

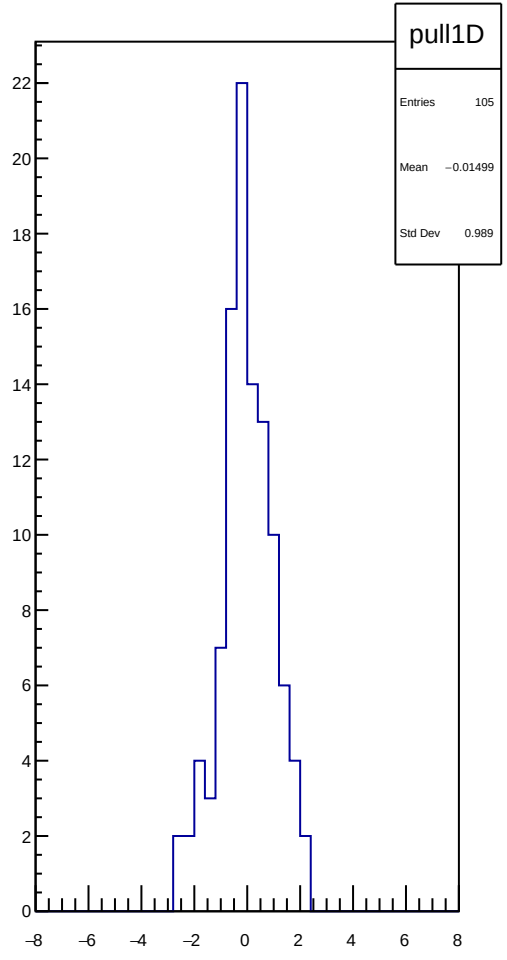

asym_sam1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.539e+05 / 104
p0 0.0007354 ± 5.391e−07
0.0014
0.0013
0.0012
0.0011
0.001
0.0009
0.0008
0.0007
0.0006
0.0005

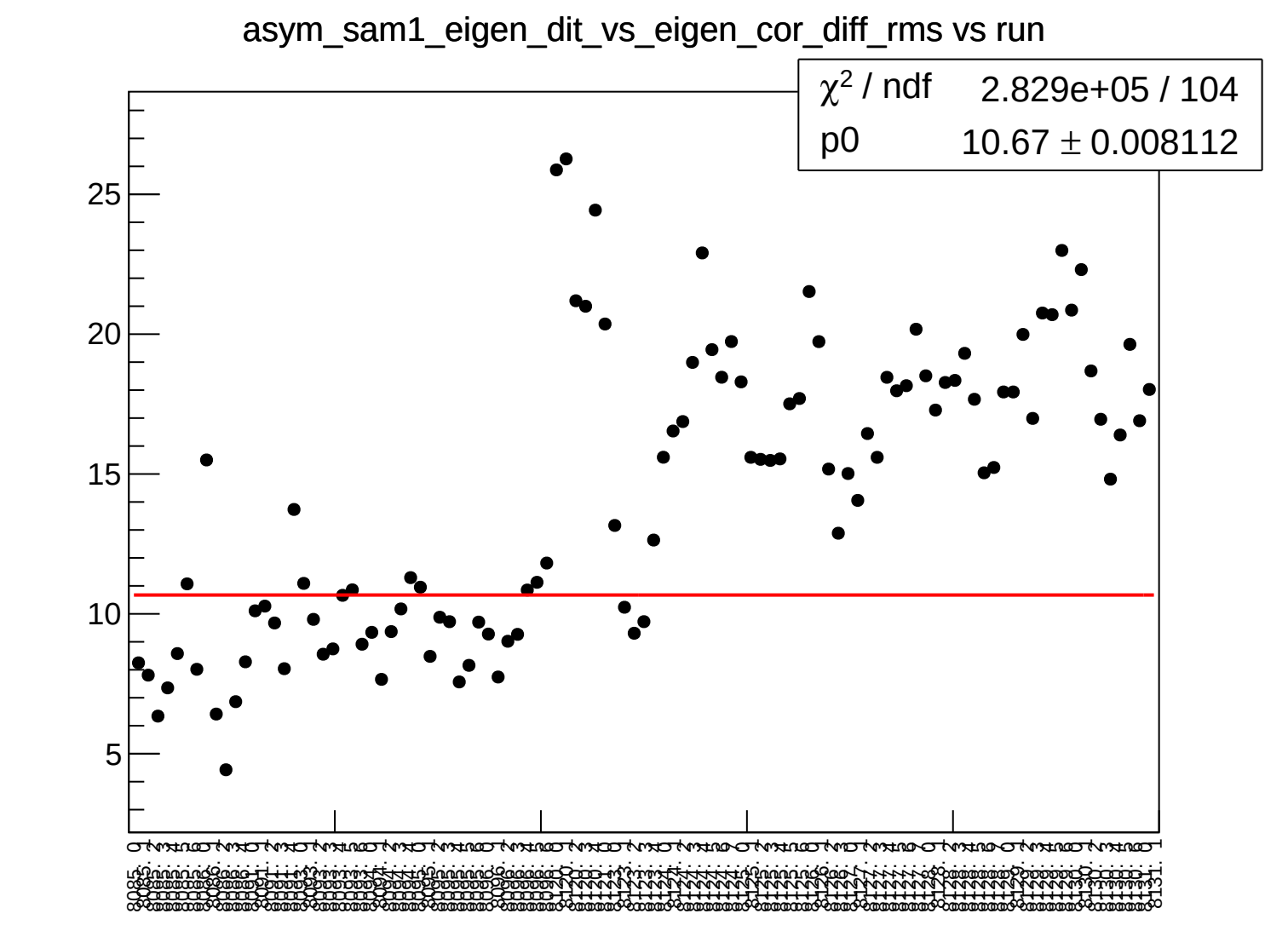

asym_sam1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 102.7 / 104
p0 0.006635 ± 0.01147
pull
Entries 105
Mean 90.85
Std Dev 0

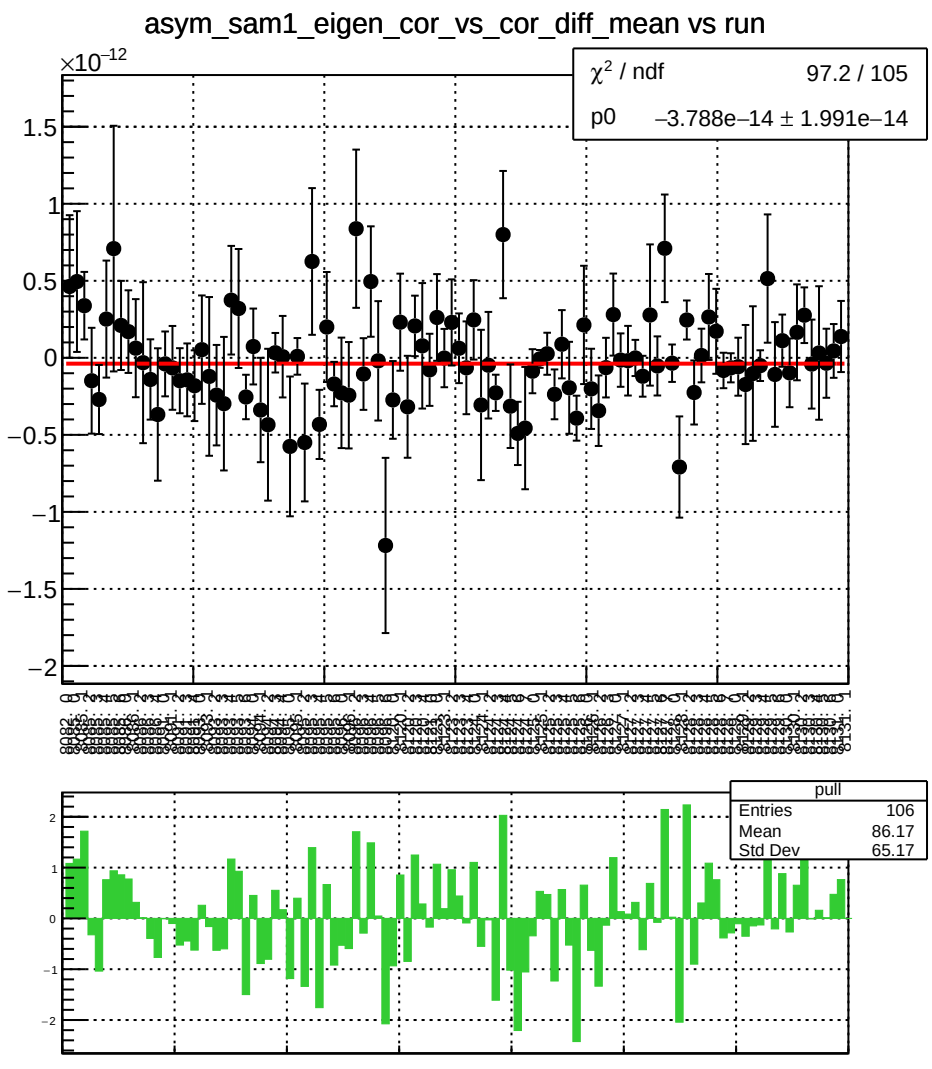

pull1D
Entries 105
Mean −0.01499
Std Dev 0.989

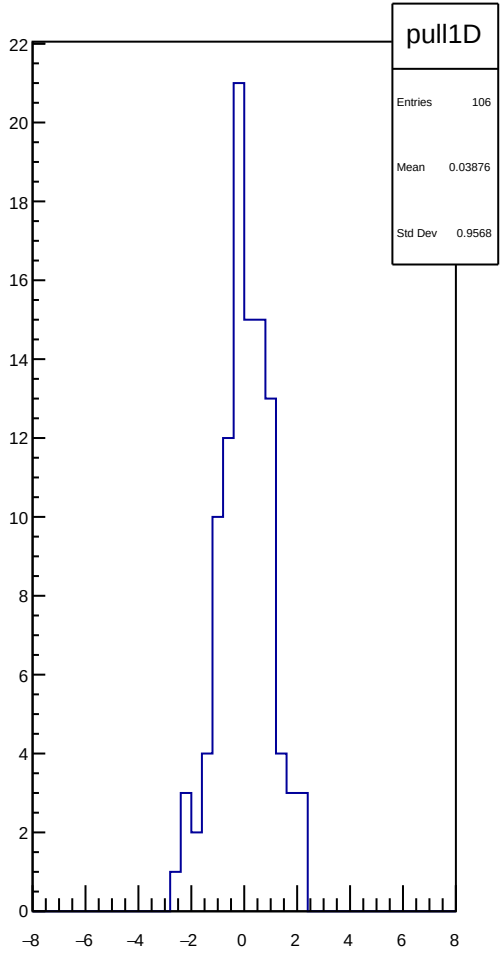

asym_sam1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.829e+05 / 104
p0 10.67 ± 0.008112
25
20
15
10
5

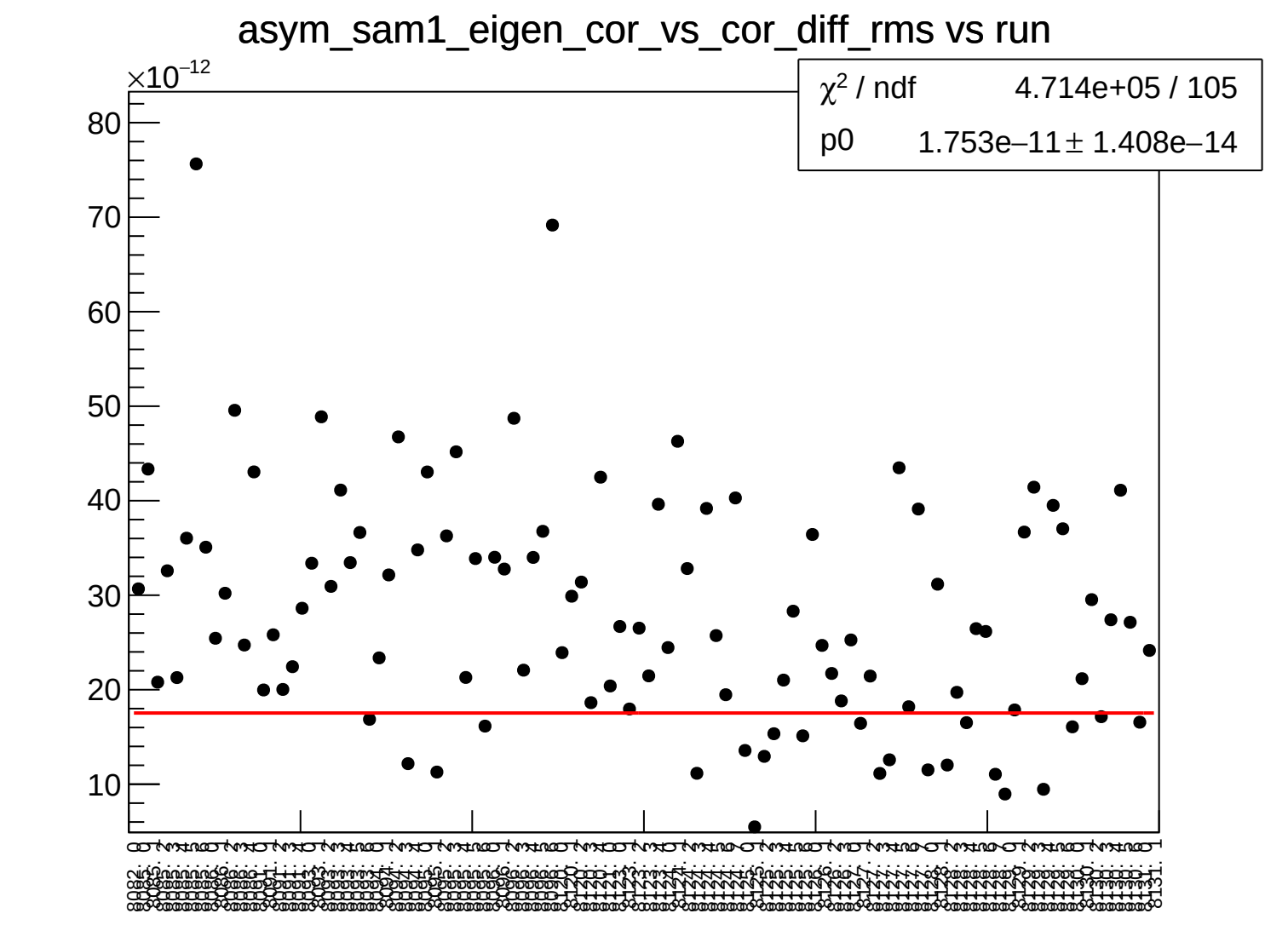

asym_sam1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.7 / 104
p0 0.006635 ± 0.01147
pull
Entries 105
Mean 90.85
Std Dev 0

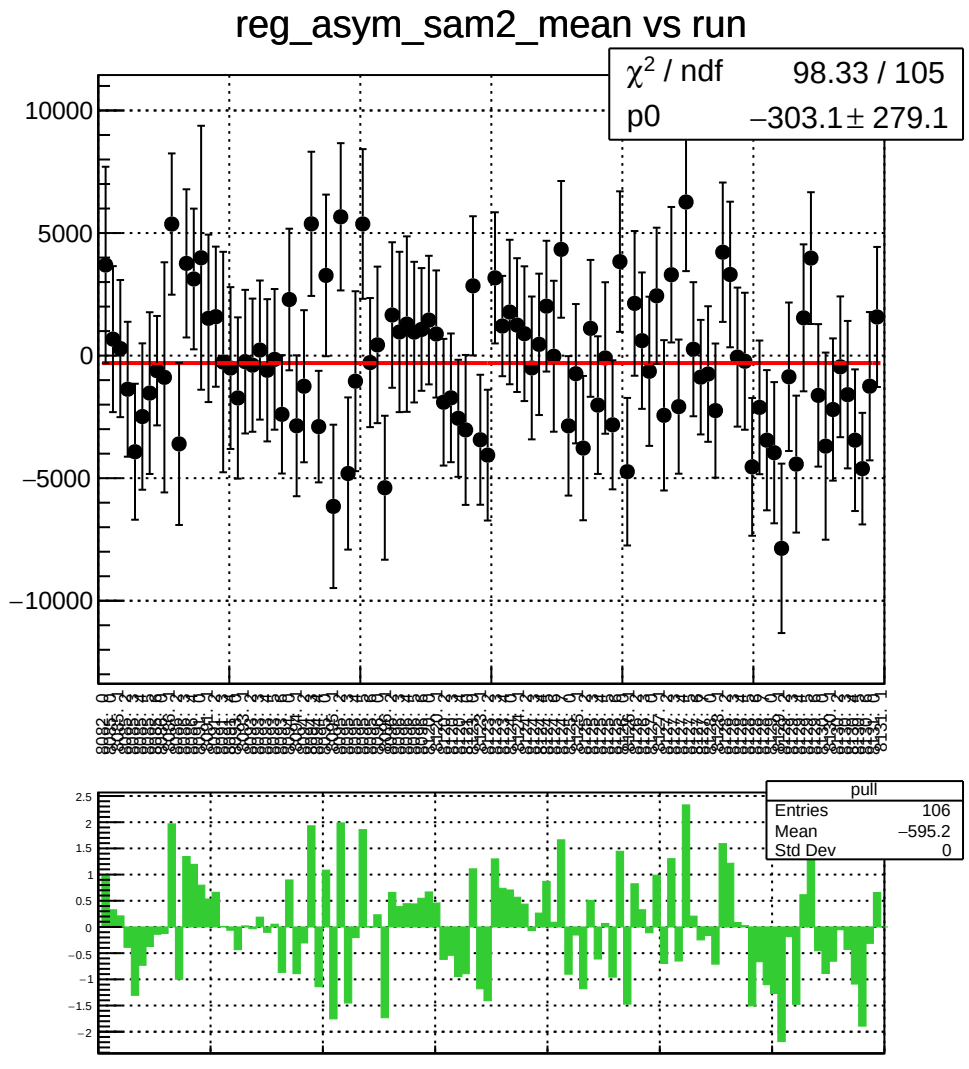

pull1D
Entries 105
Mean −0.01499
Std Dev 0.989

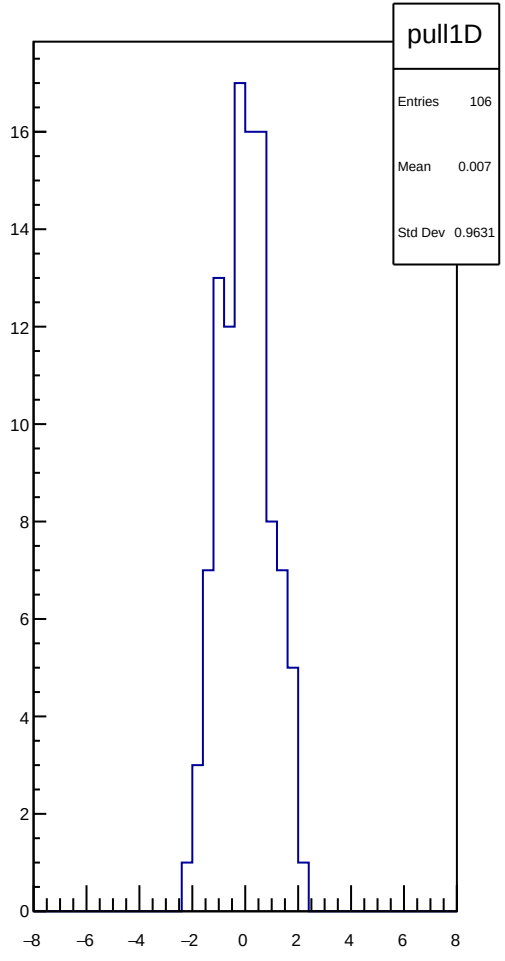

asym_sam1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.829e+05 / 104
p0 10.67 ± 0.008112
25
20
15
10
5

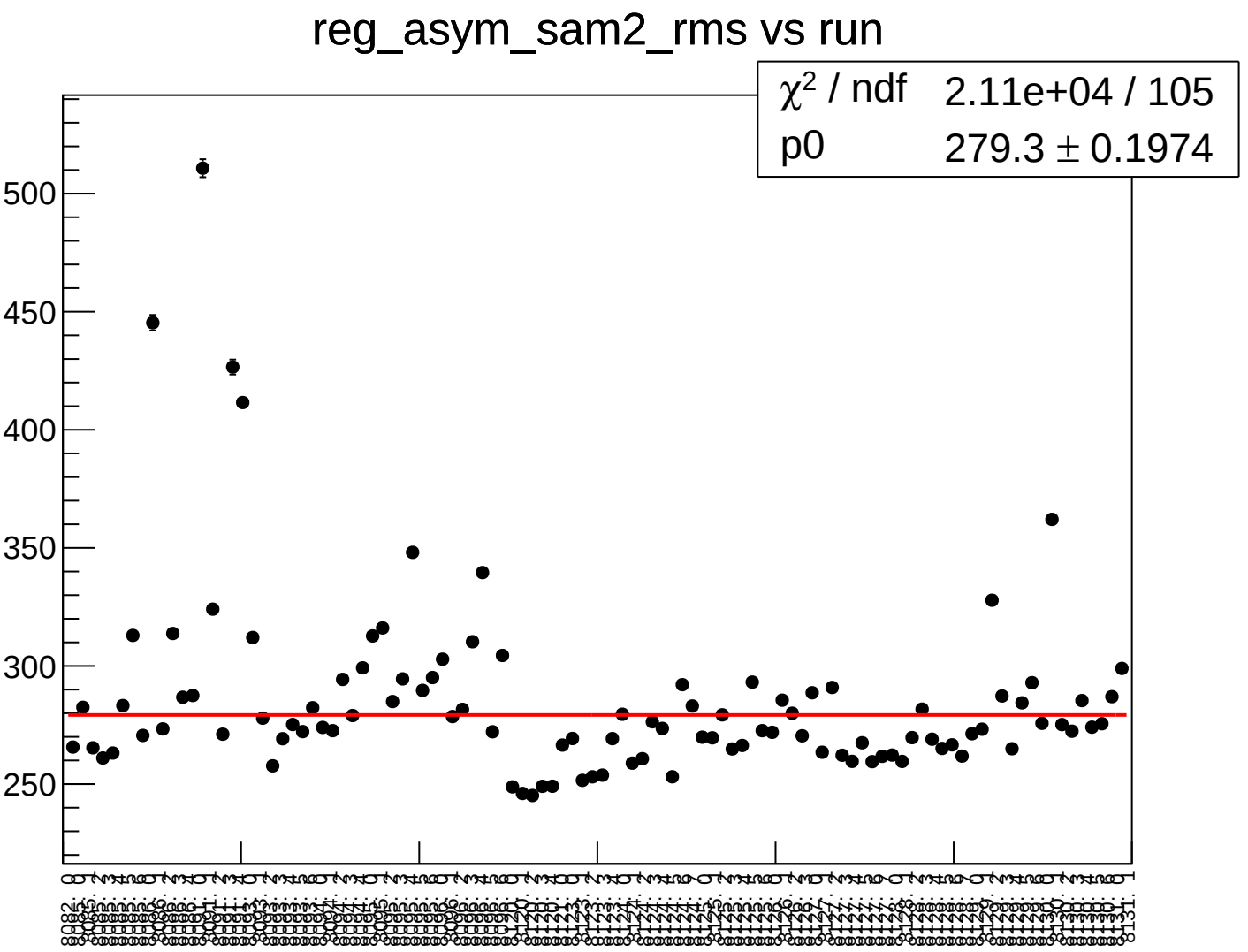

asym_sam1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.2 / 105
p0 −3.788e−14 ± 1.991e−14
pull
Entries 106
Mean 86.17
Std Dev 65.17

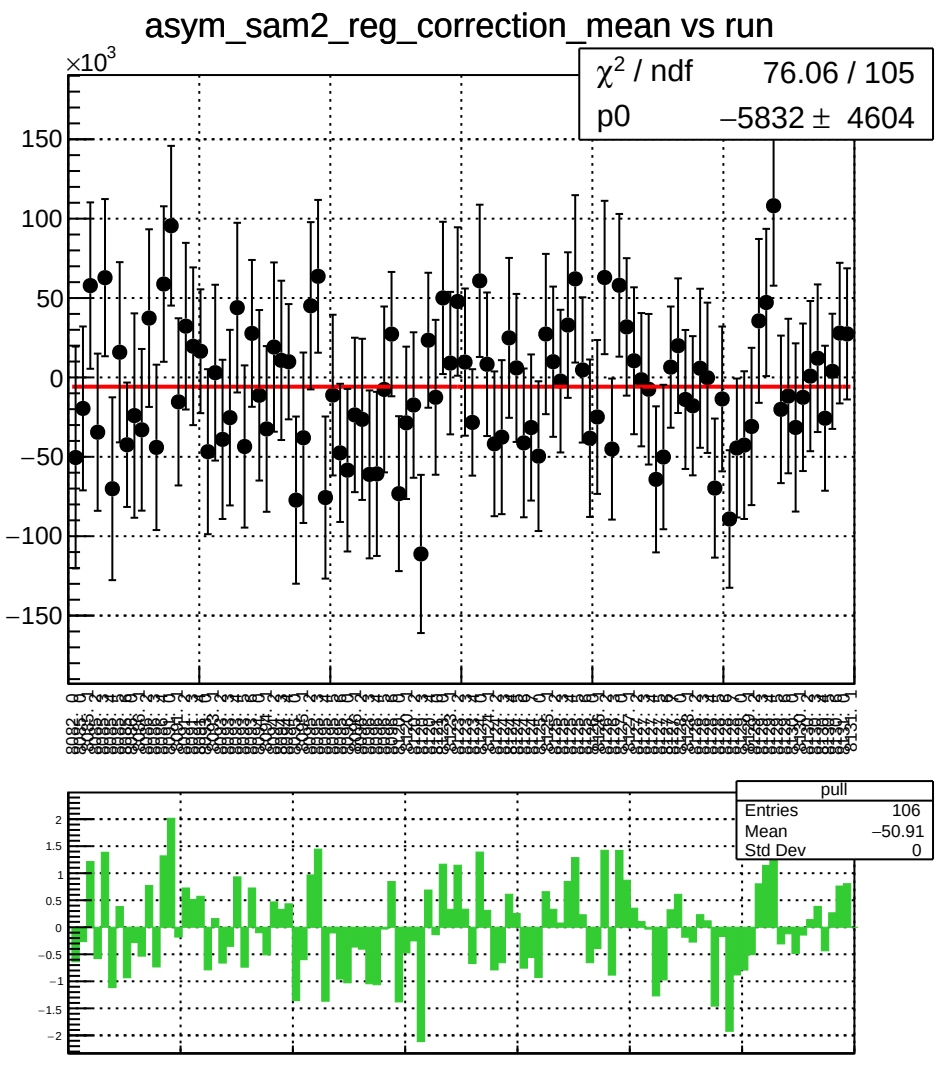

pull1D
Entries 106
Mean 0.03876
Std Dev 0.9568

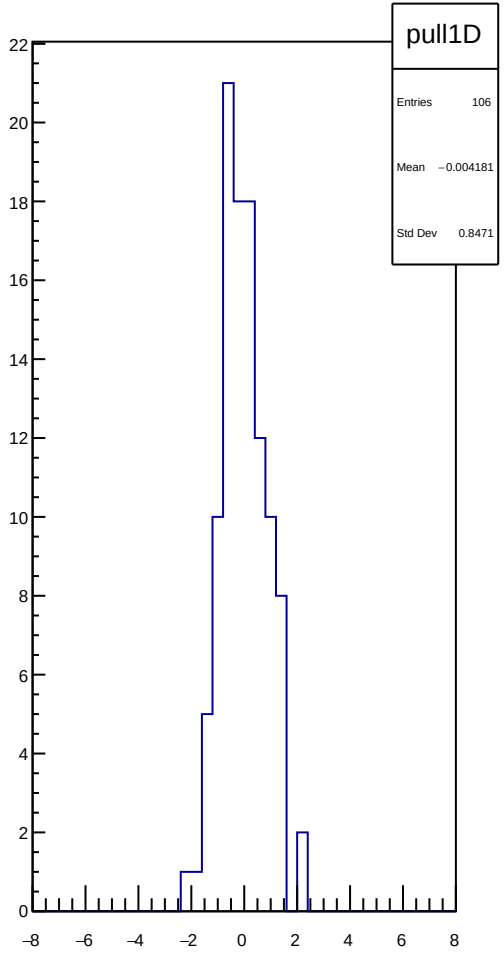

asym_sam1_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
80
70
60
50
40
30
20
10
χ² / ndf 4.714e+05 / 105
p0 1.753e−11 ± 1.408e−14

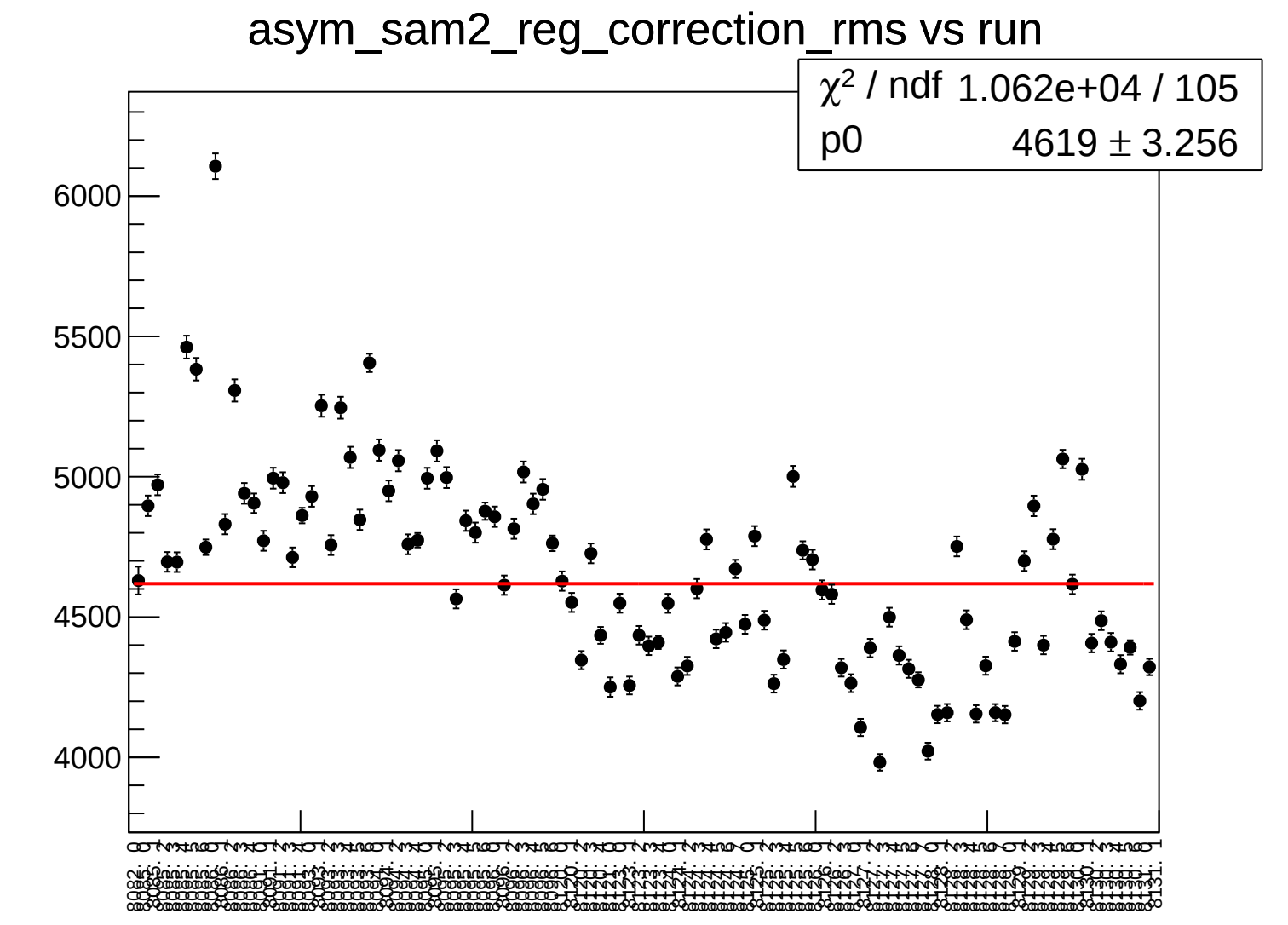

reg_asym_sam2_mean vs run
χ² / ndf 98.33 / 105
p0 −303.1 ± 279.1
10000
5000
0
−5000
−10000
pull
Entries 106
Mean −595.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

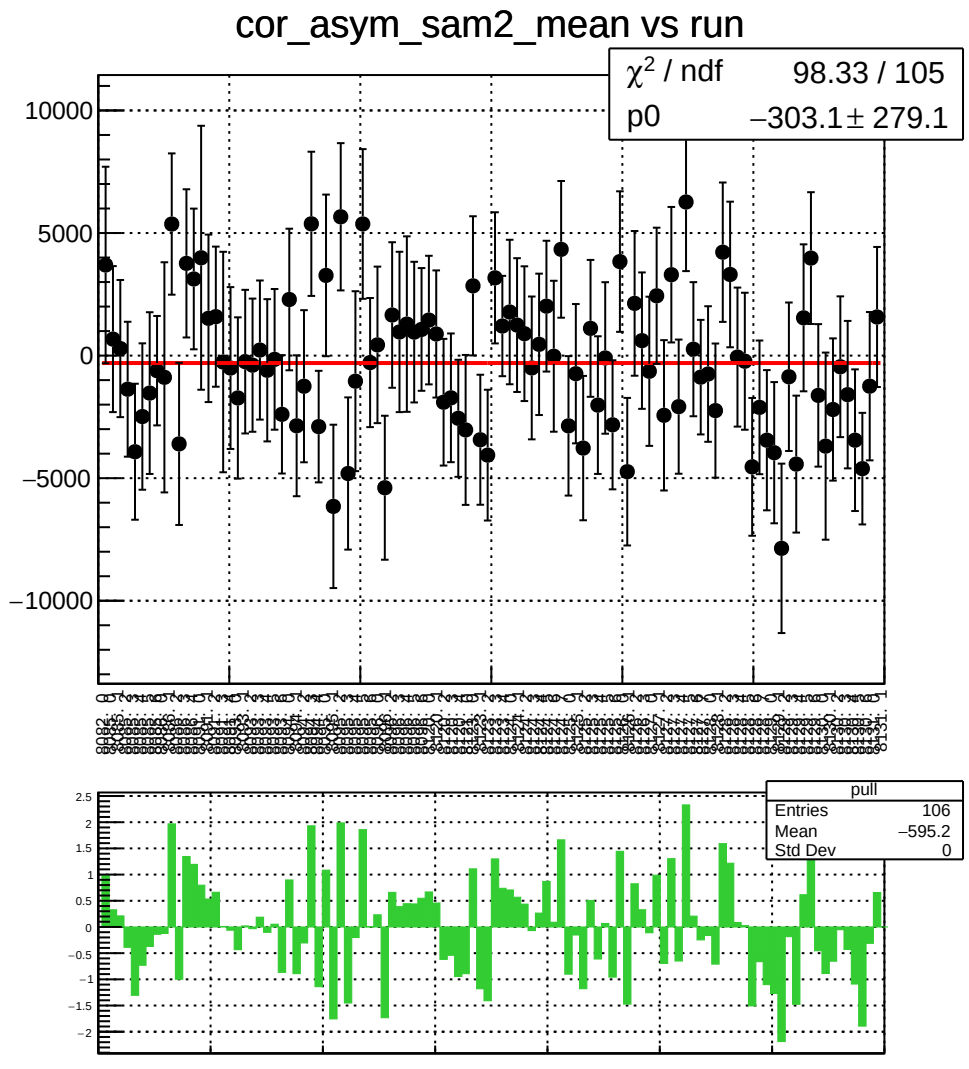

pull1D
Entries 106
Mean 0.007
Std Dev 0.9631
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

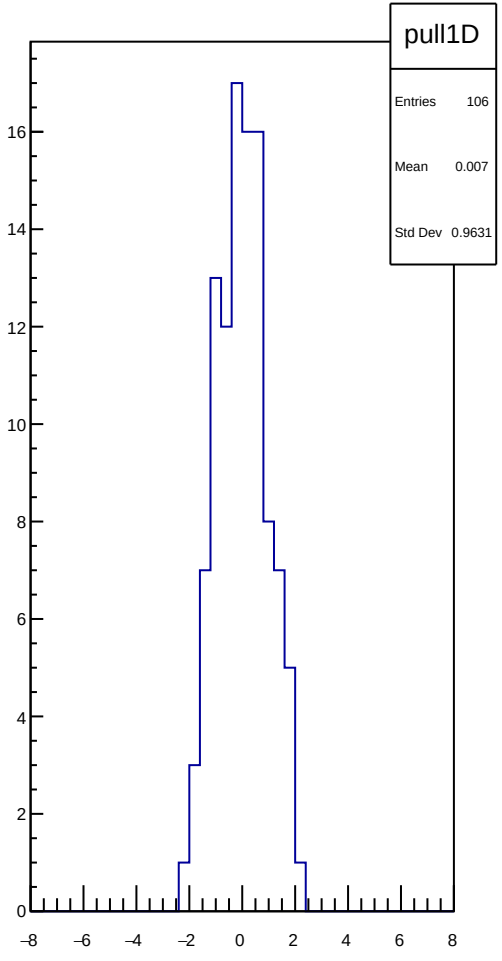

reg_asym_sam2_rms vs run
χ² / ndf 2.11e+04 / 105
p0 279.3 ± 0.1974
500
450
400
350
300
250

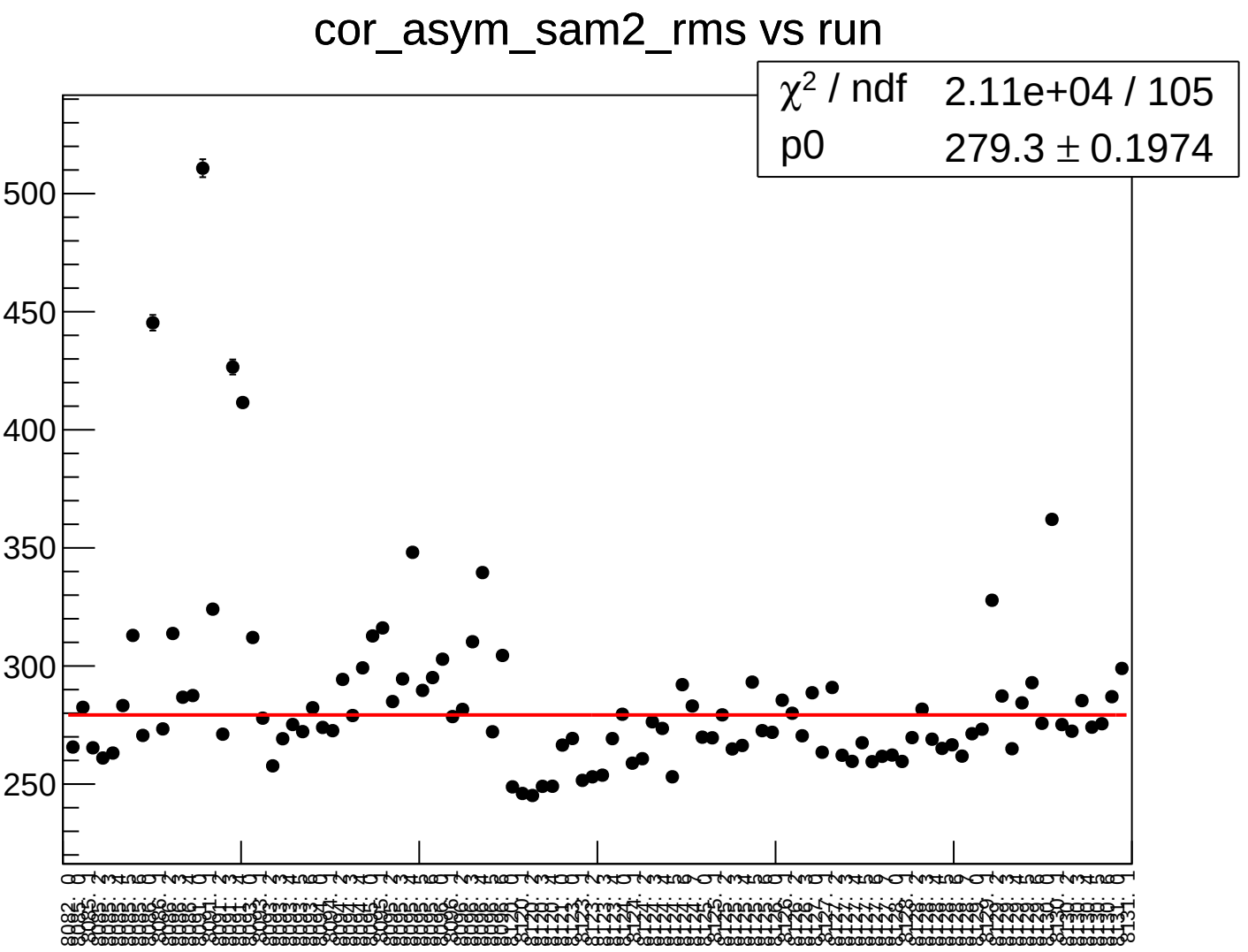

asym_sam2_reg_correction_mean vs run
×10^3
χ^2 / ndf 76.06 / 105
p0 −5832 ± 4604
150
100
50
0
−50
−100
−150
pull
Entries 106
Mean −50.91
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

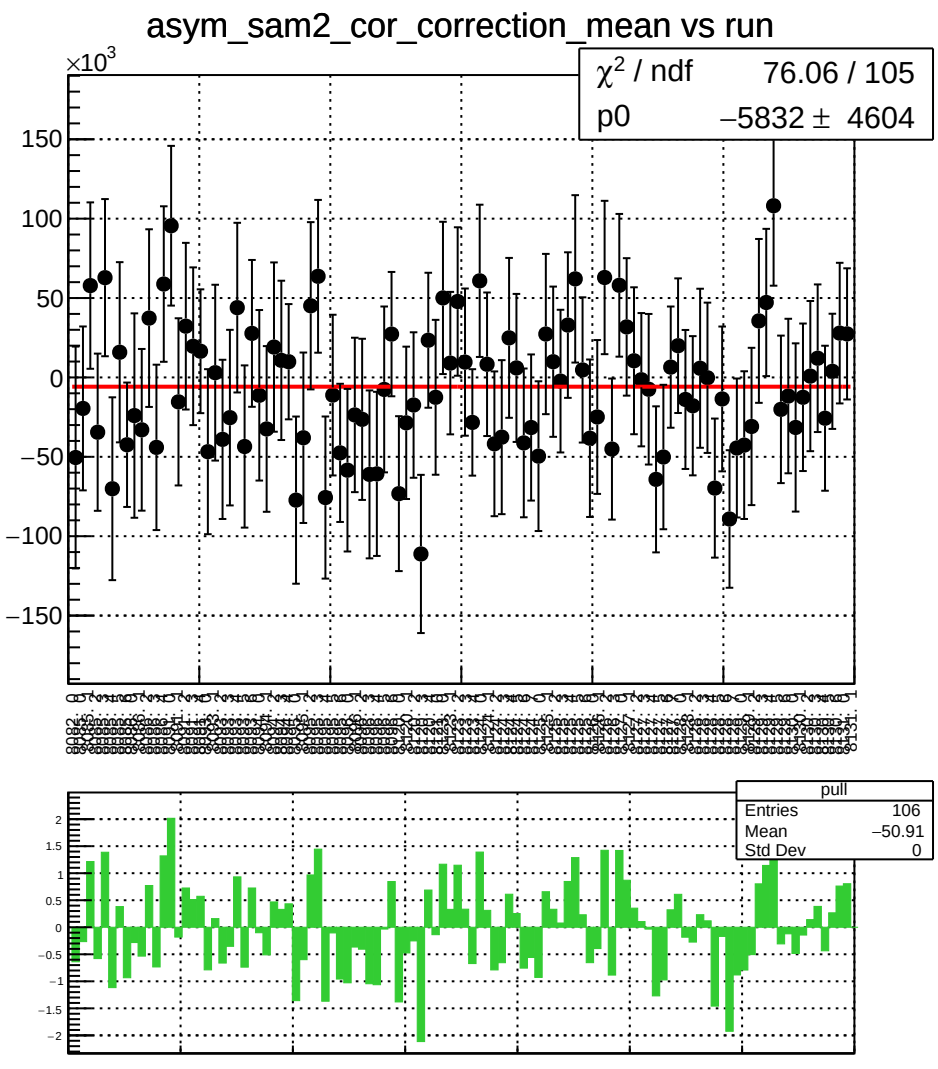

pull1D
Entries 106
Mean −0.004181
Std Dev 0.8471
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

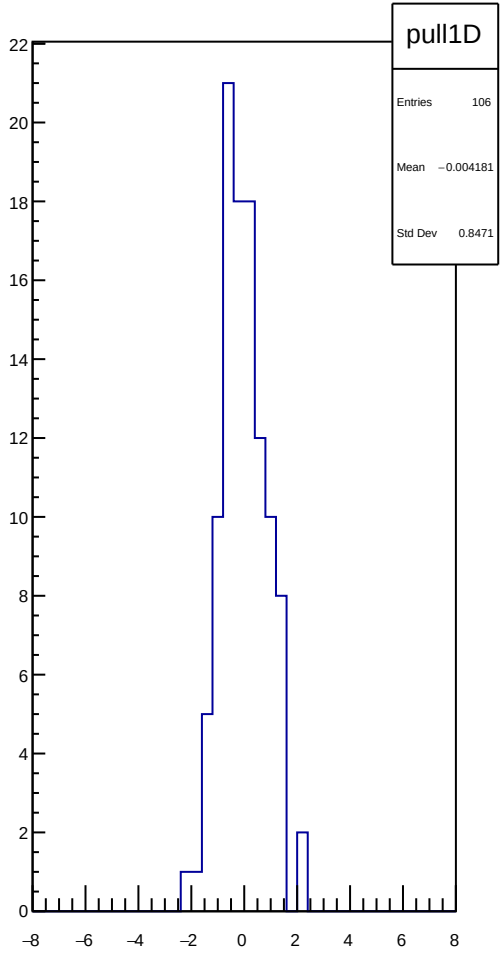

asym_sam2_reg_correction_rms vs run
χ² / ndf 1.062e+04 / 105
p0 4619 ± 3.256
6000
5500
5000
4500
4000

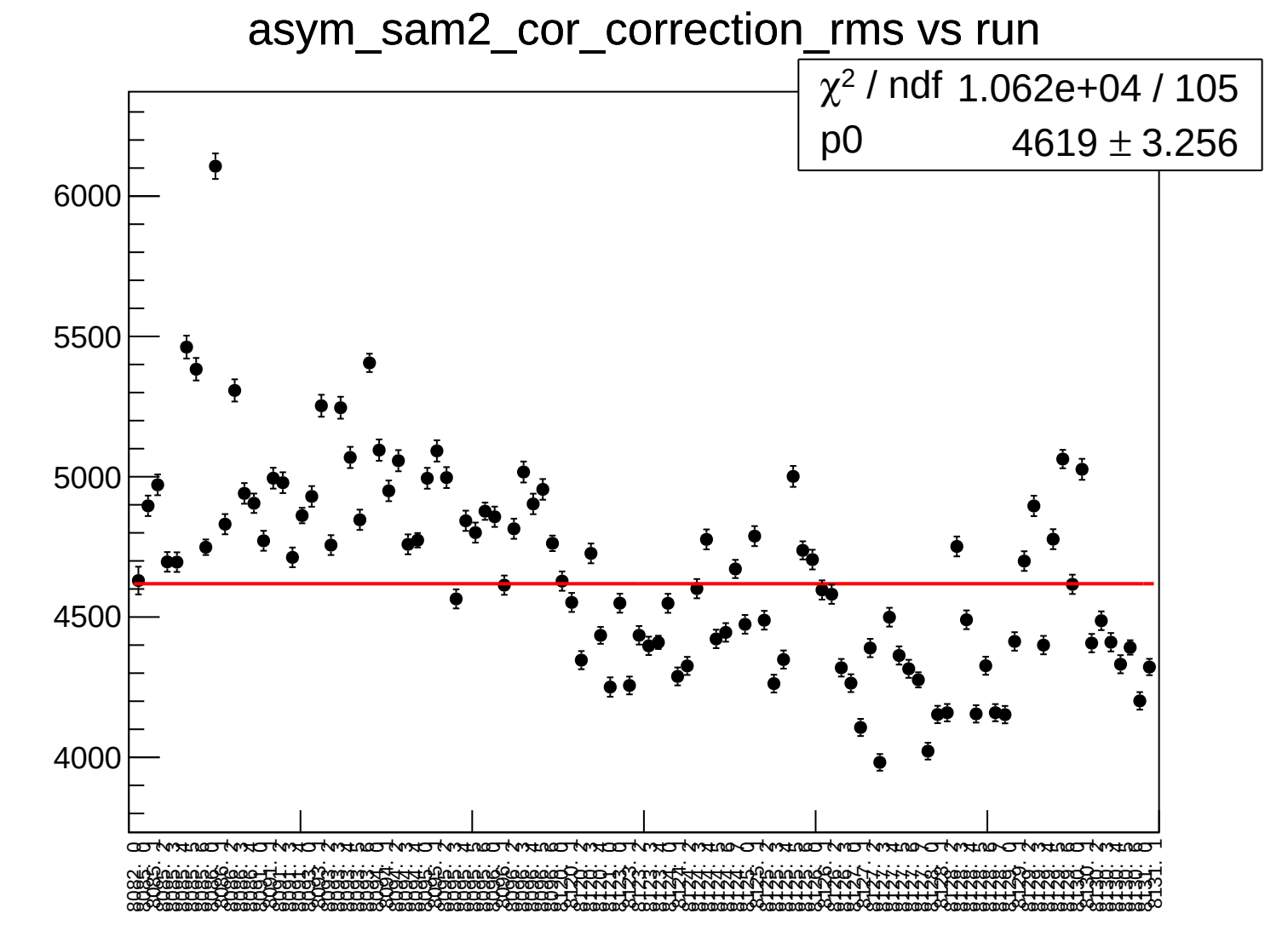

cor_asym_sam2_mean vs run
χ² / ndf 98.33 / 105
p0 −303.1 ± 279.1
10000
5000
0
−5000
−10000
pull
Entries 106
Mean −595.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

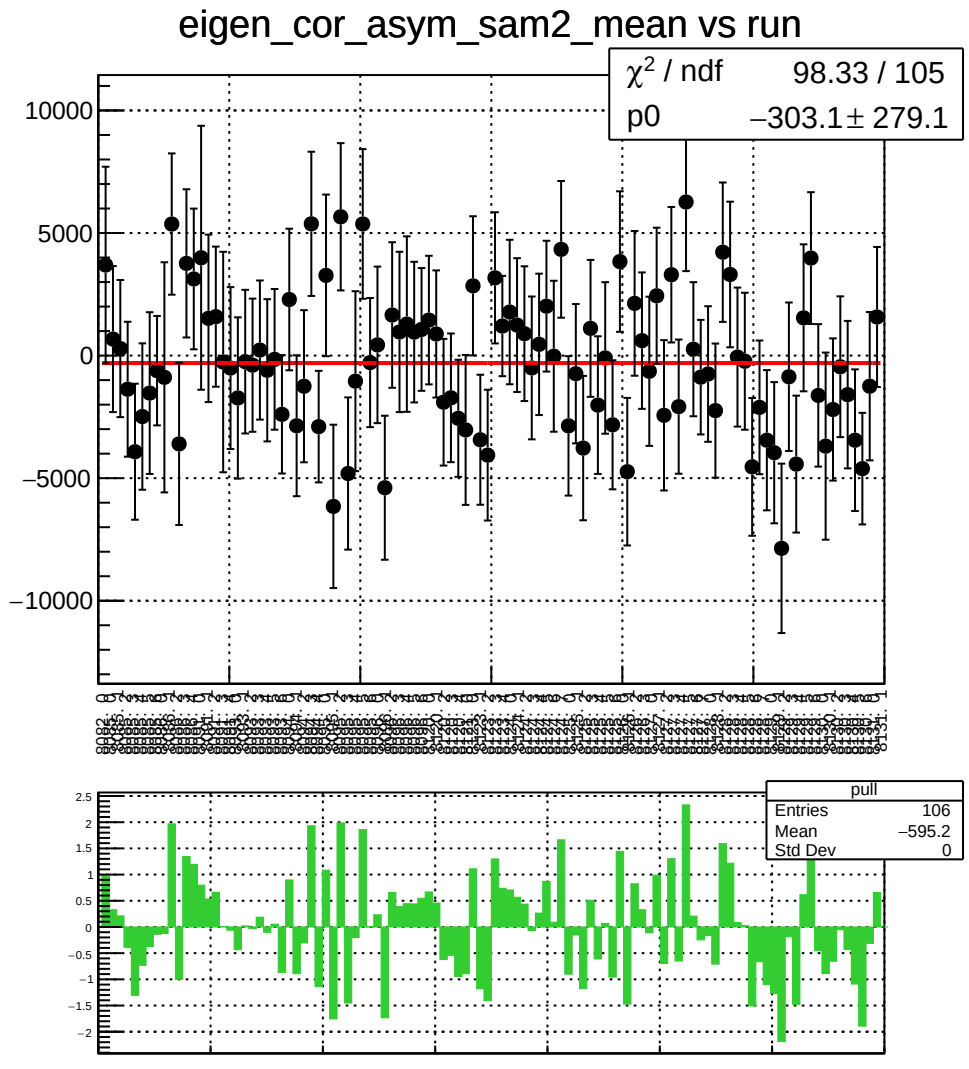

pull1D
Entries 106
Mean 0.007
Std Dev 0.9631
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

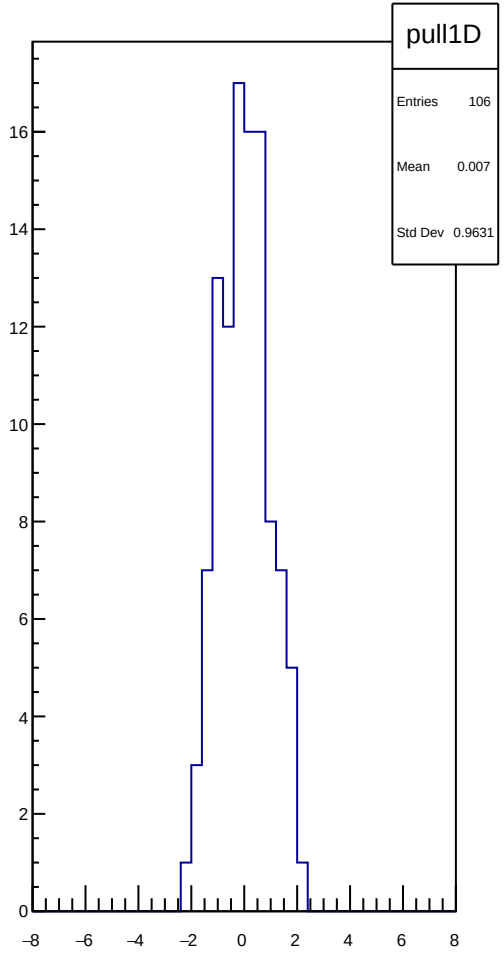

cor_asym_sam2_rms vs run
χ² / ndf 2.11e+04 / 105
p0 279.3 ± 0.1974
500
450
400
350
300
250


asym_sam2_cor_correction_mean vs run
×10^3
χ^2 / ndf 76.06 / 105
p0 −5832 ± 4604
150
100
50
0
−50
−100
−150
pull
Entries 106
Mean −50.91
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 106
Mean −0.004181
Std Dev 0.8471
22
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 1.062e+04 / 105
p0 4619 ± 3.256
6000
5500
5000
4500
4000


eigen_cor_asym_sam2_mean vs run
$\chi^2$ / ndf 98.33 / 105
p0 −303.1 ± 279.1
10000
5000
0
−5000
−10000
pull
Entries 106
Mean −595.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 106
Mean 0.007
Std Dev 0.9631
16
14
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10
8
6
4
2
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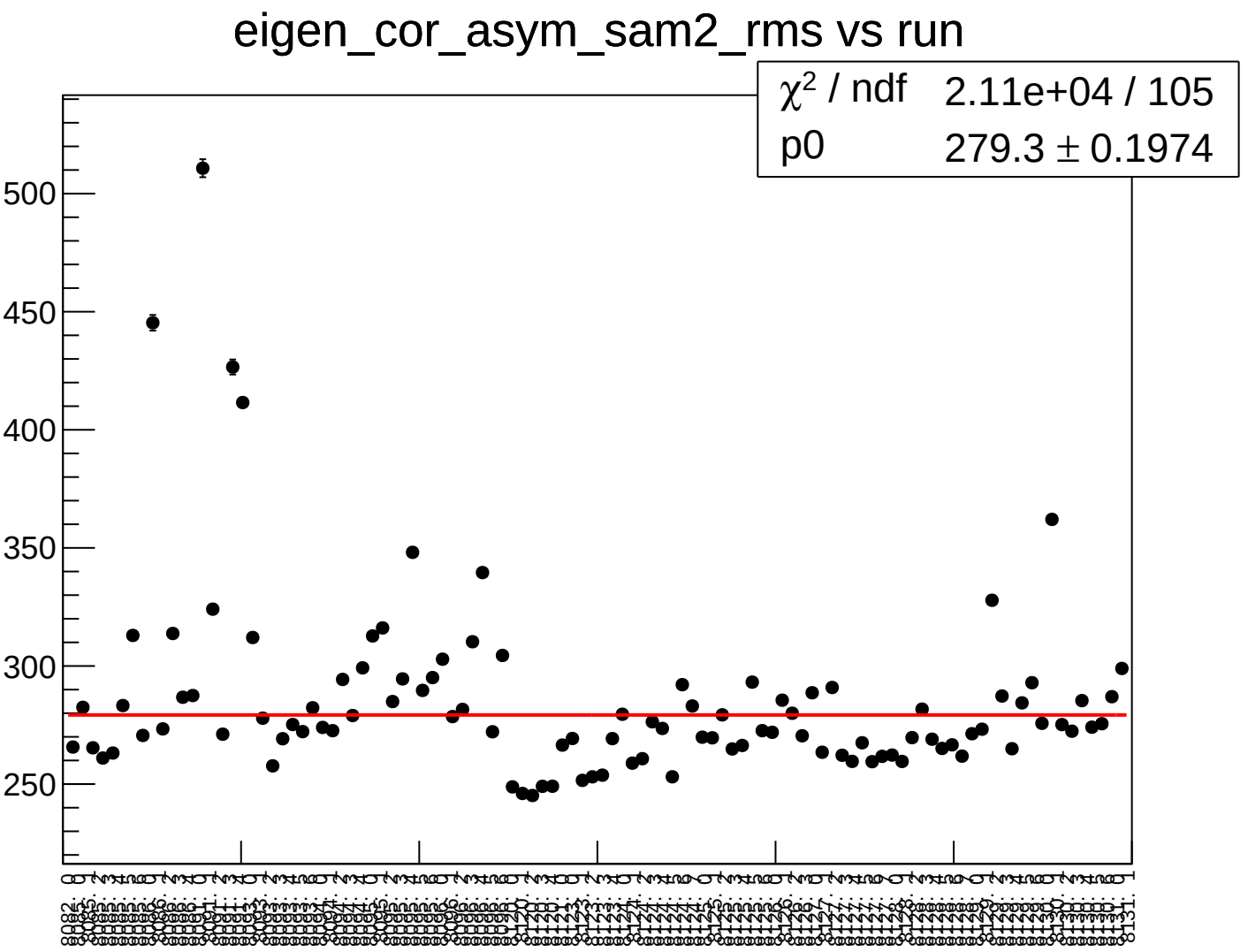
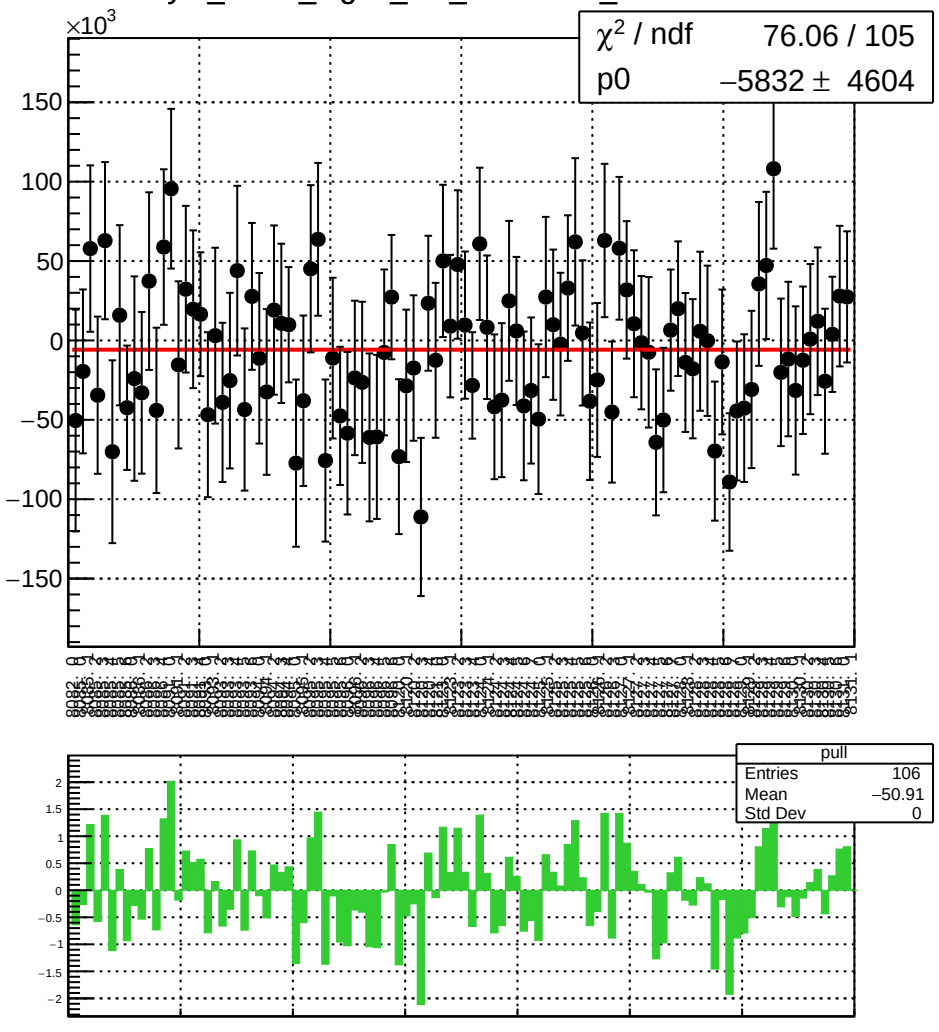
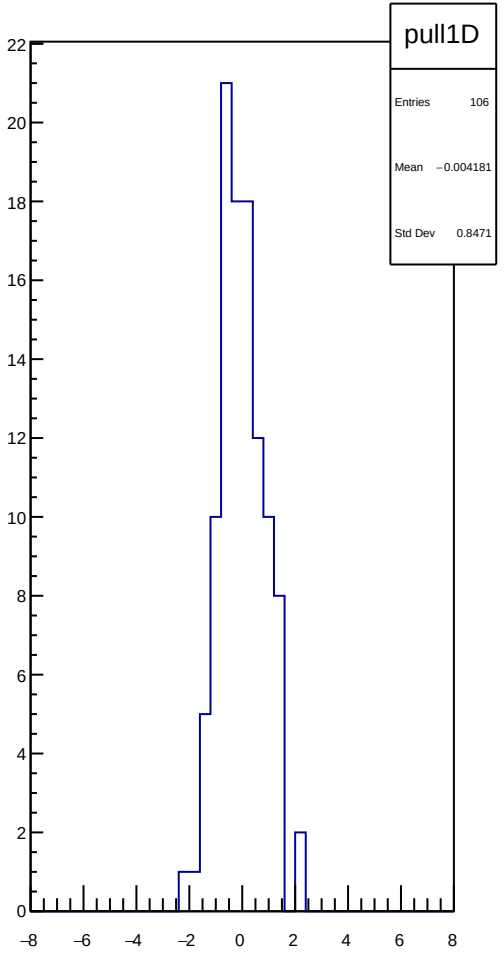
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_sam2_rms vs run
$\chi^2$ / ndf 2.11e+04 / 105
p0 279.3 ± 0.1974
500
450
400
350
300
250


asym_sam2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 76.06 / 105
p0 −5832 ± 4604
150
100
50
0
−50
−100
−150
pull
Entries 106
Mean −50.91
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 106
Mean −0.004181
Std Dev 0.8471
22
20
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10
8
6
4
2
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−4
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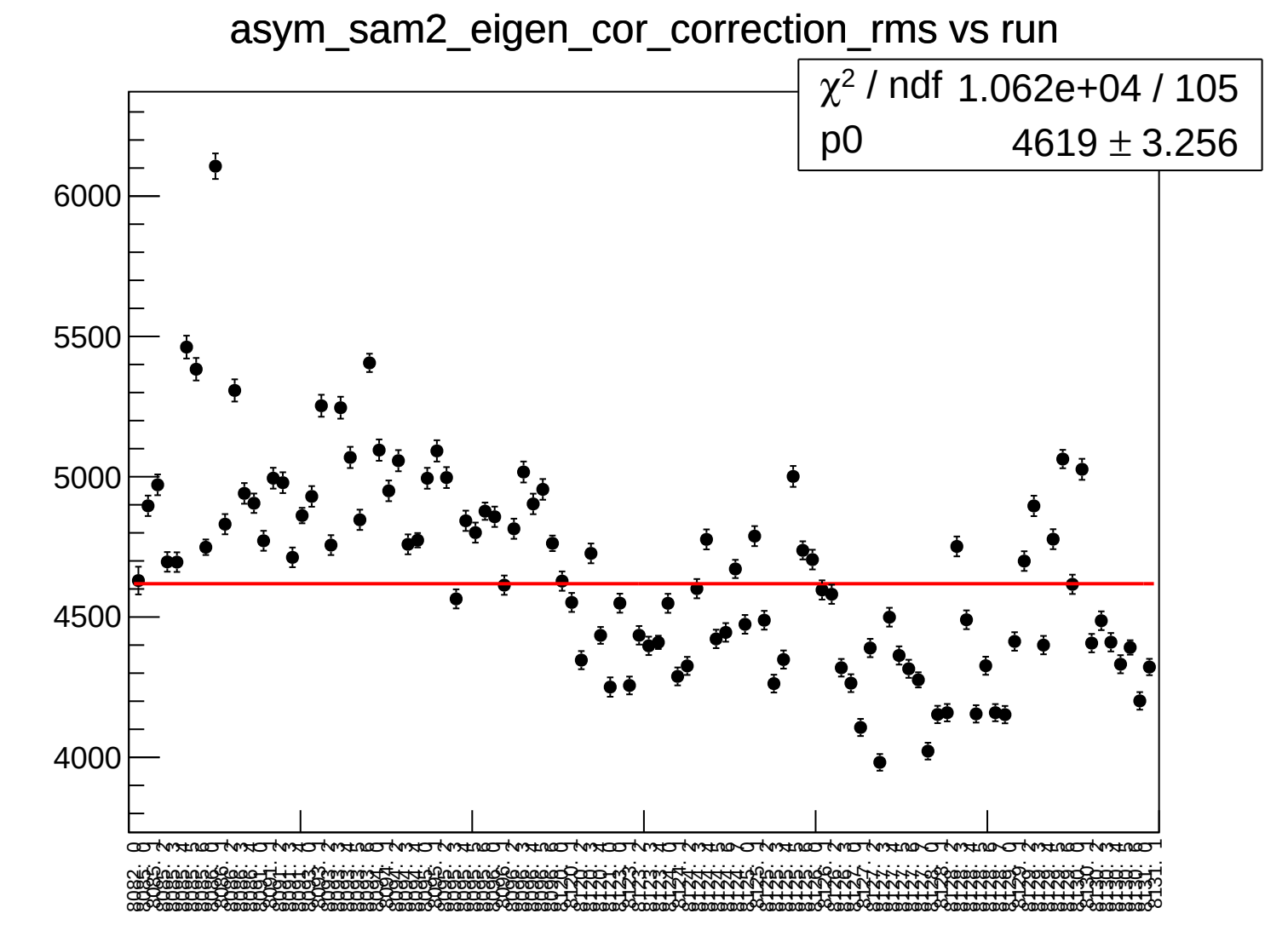
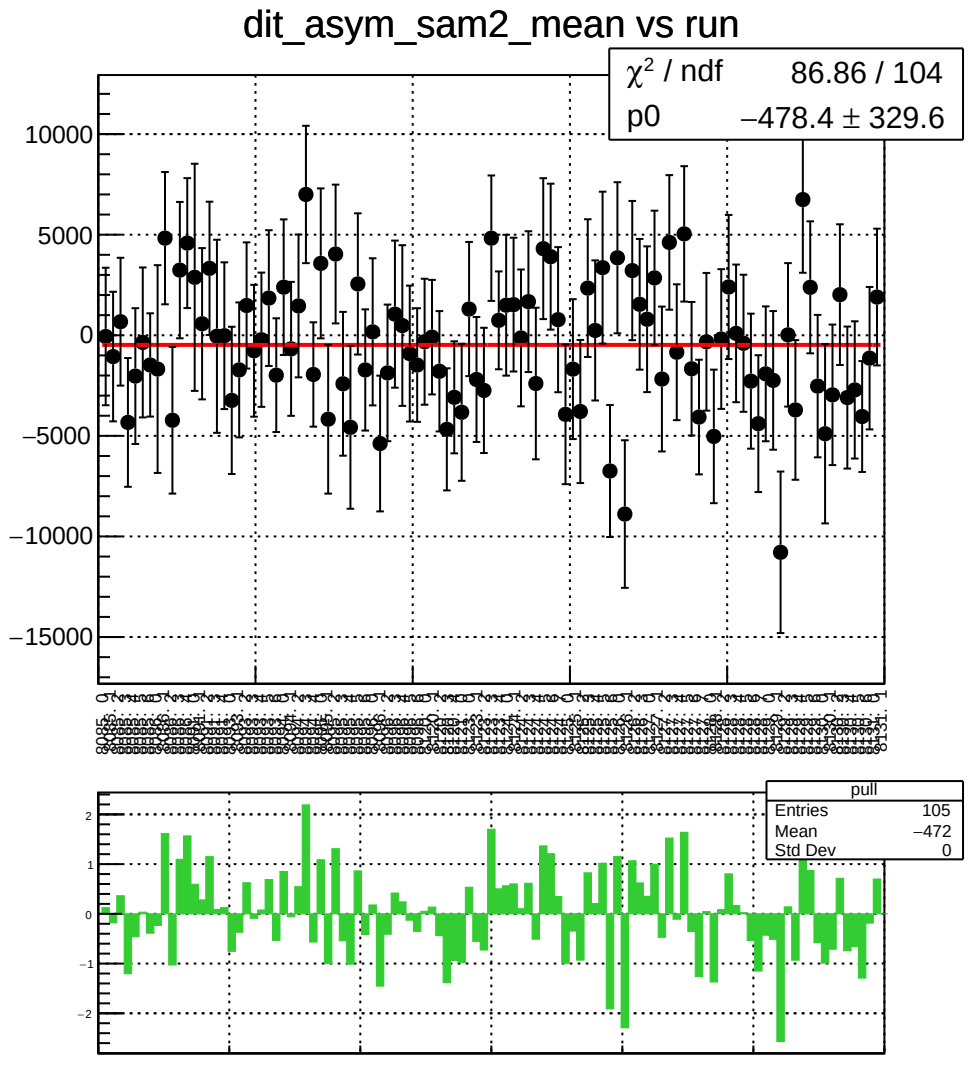
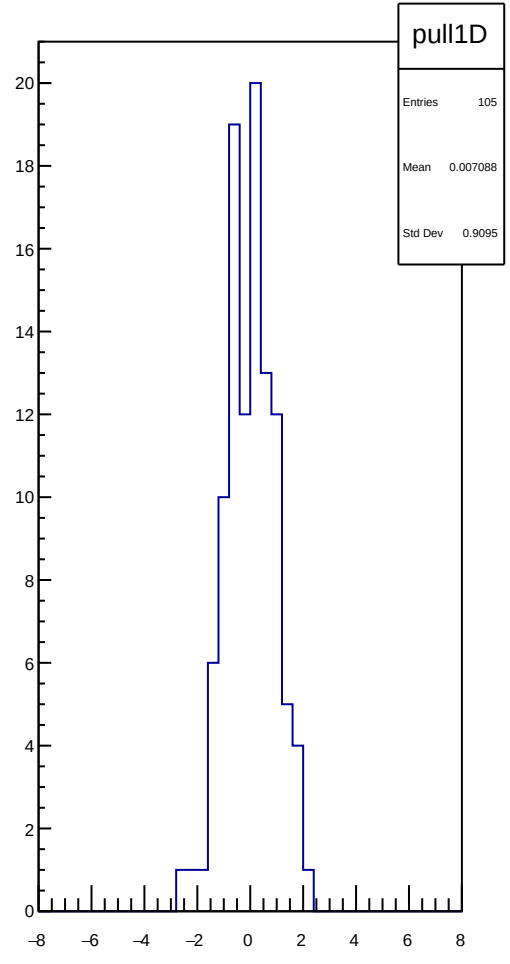
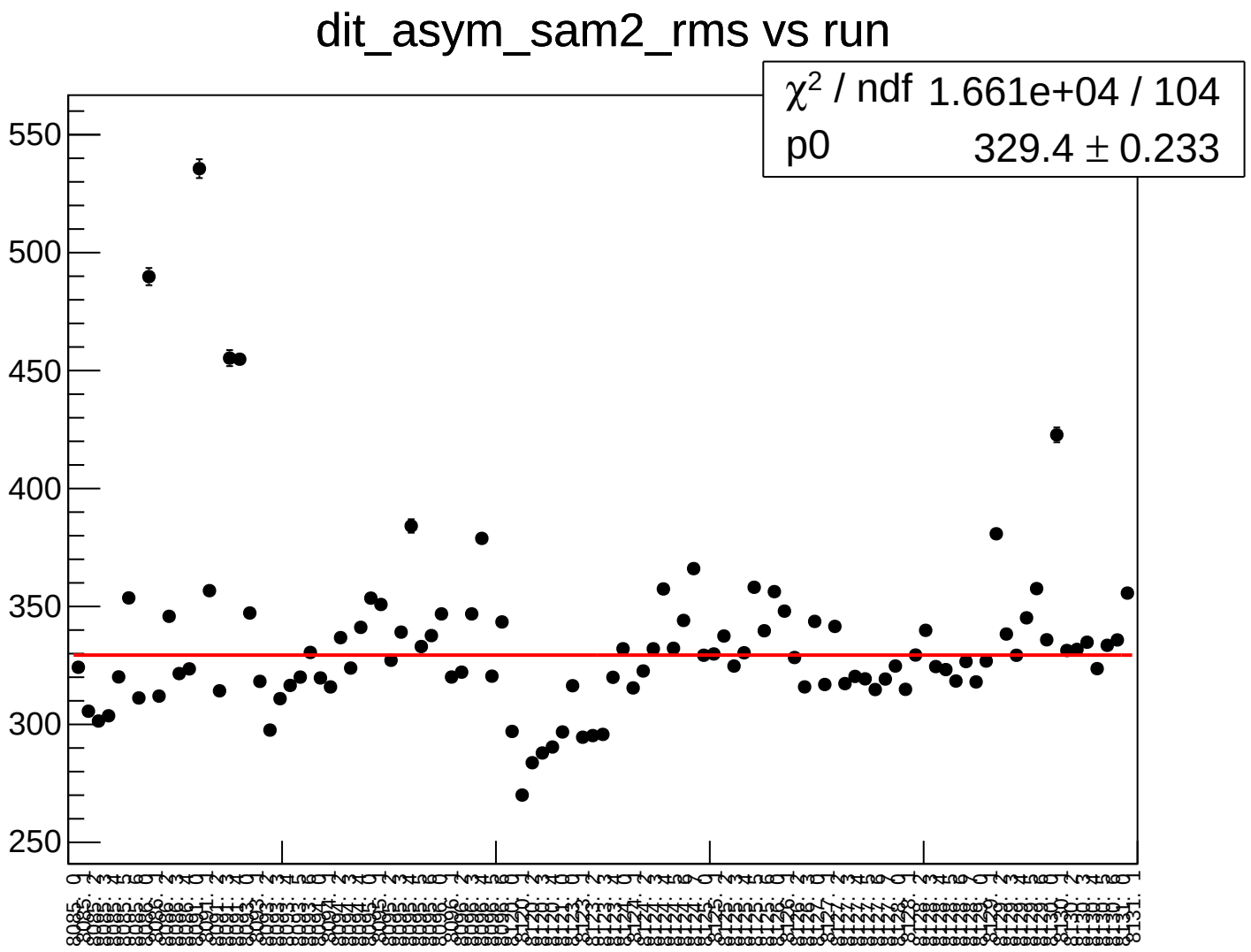
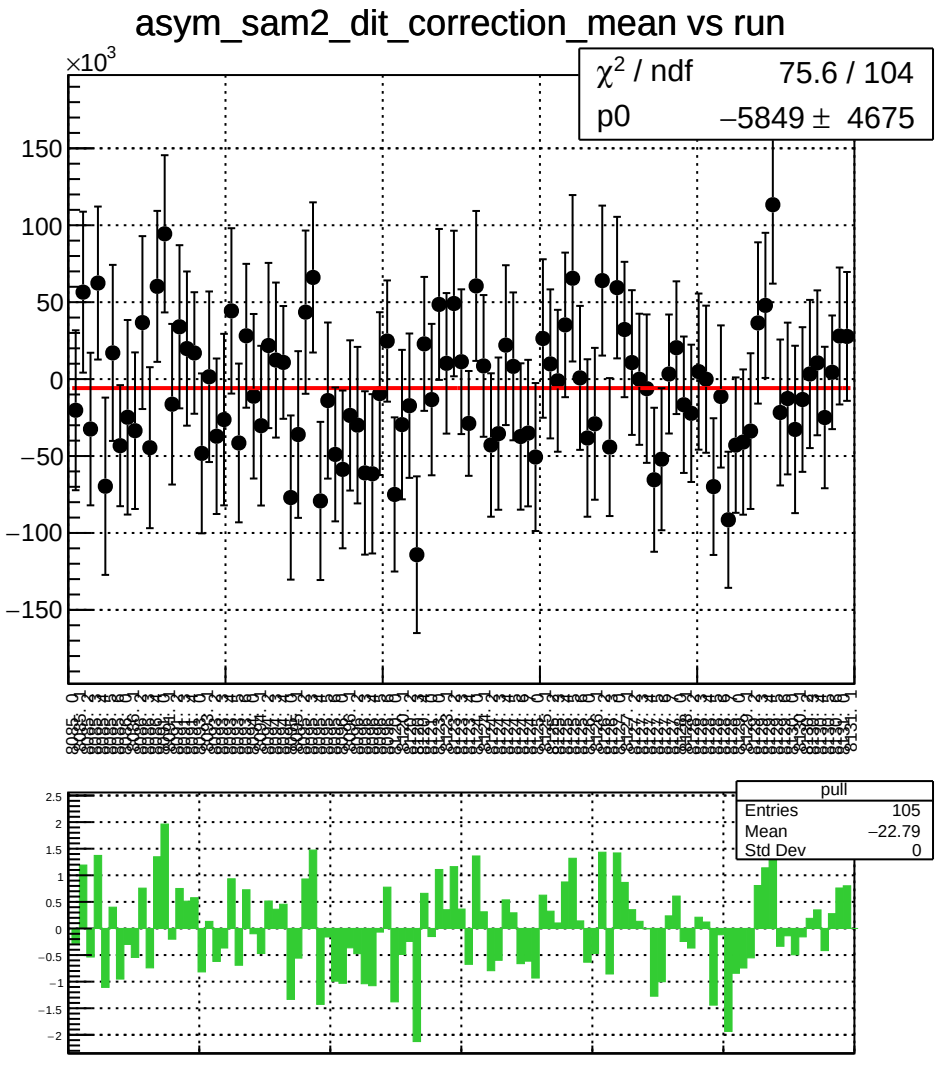
2
4
6
8

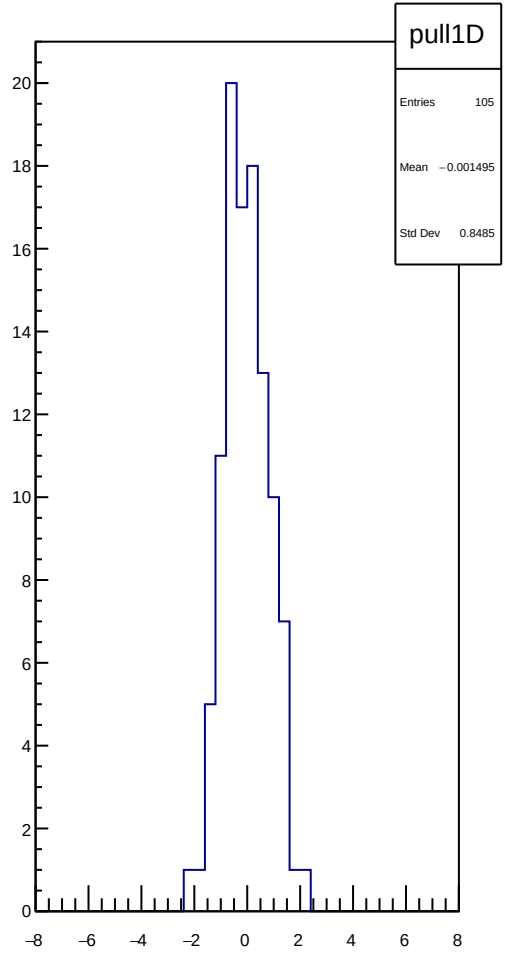

asym_sam2_eigen_cor_correction_rms vs run
χ² / ndf 1.062e+04 / 105
p0 4619 ± 3.256
6000
5500
5000
4500
4000

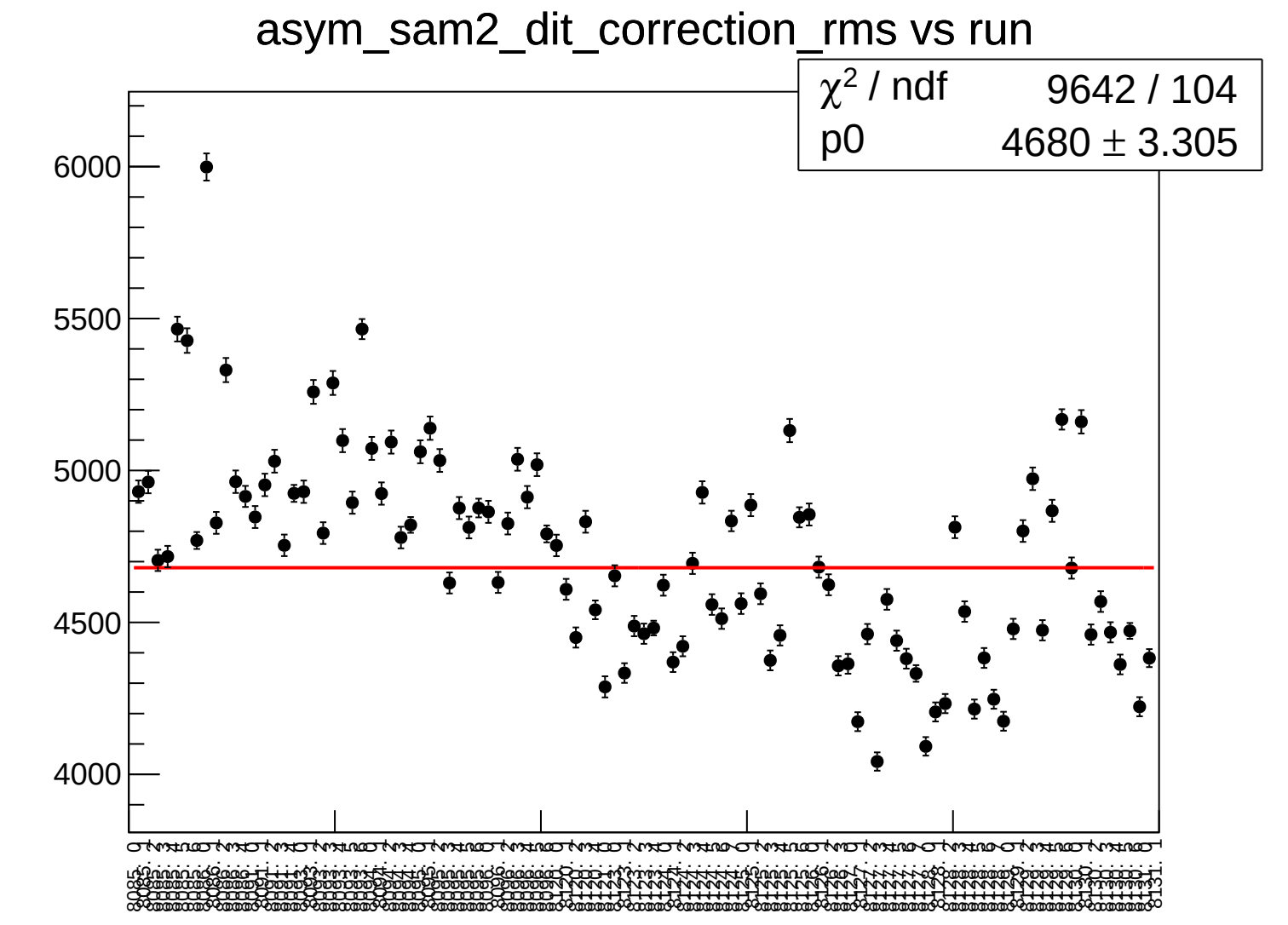

dit_asym_sam2_mean vs run
χ² / ndf 86.86 / 104
p0 −478.4 ± 329.6
10000
5000
0
−5000
−10000
−15000
pull
Entries 105
Mean −472
Std Dev 0
2
1
0
−1
−2

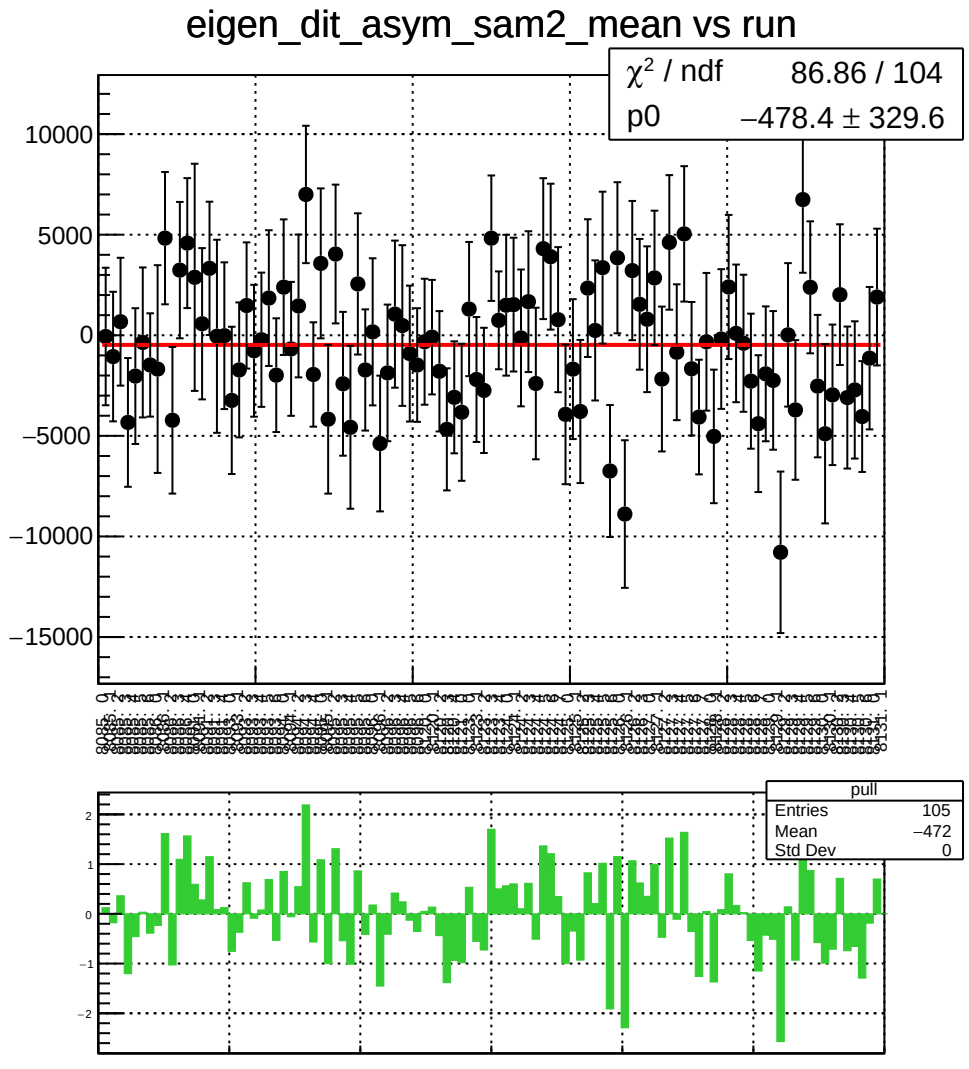

pull1D
Entries 105
Mean 0.007088
Std Dev 0.9095
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

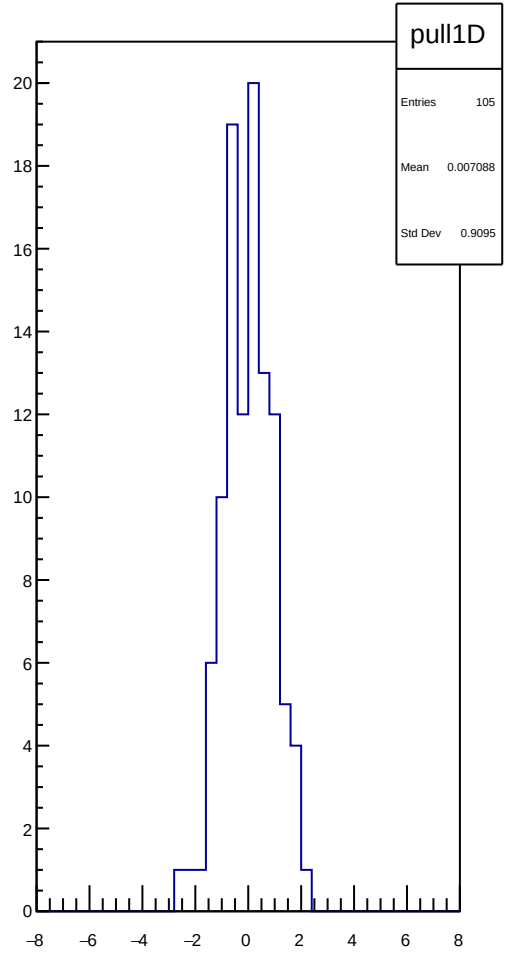

dit_asym_sam2_rms vs run
χ² / ndf 1.661e+04 / 104
p0 329.4 ± 0.233
550
500
450
400
350
300
250

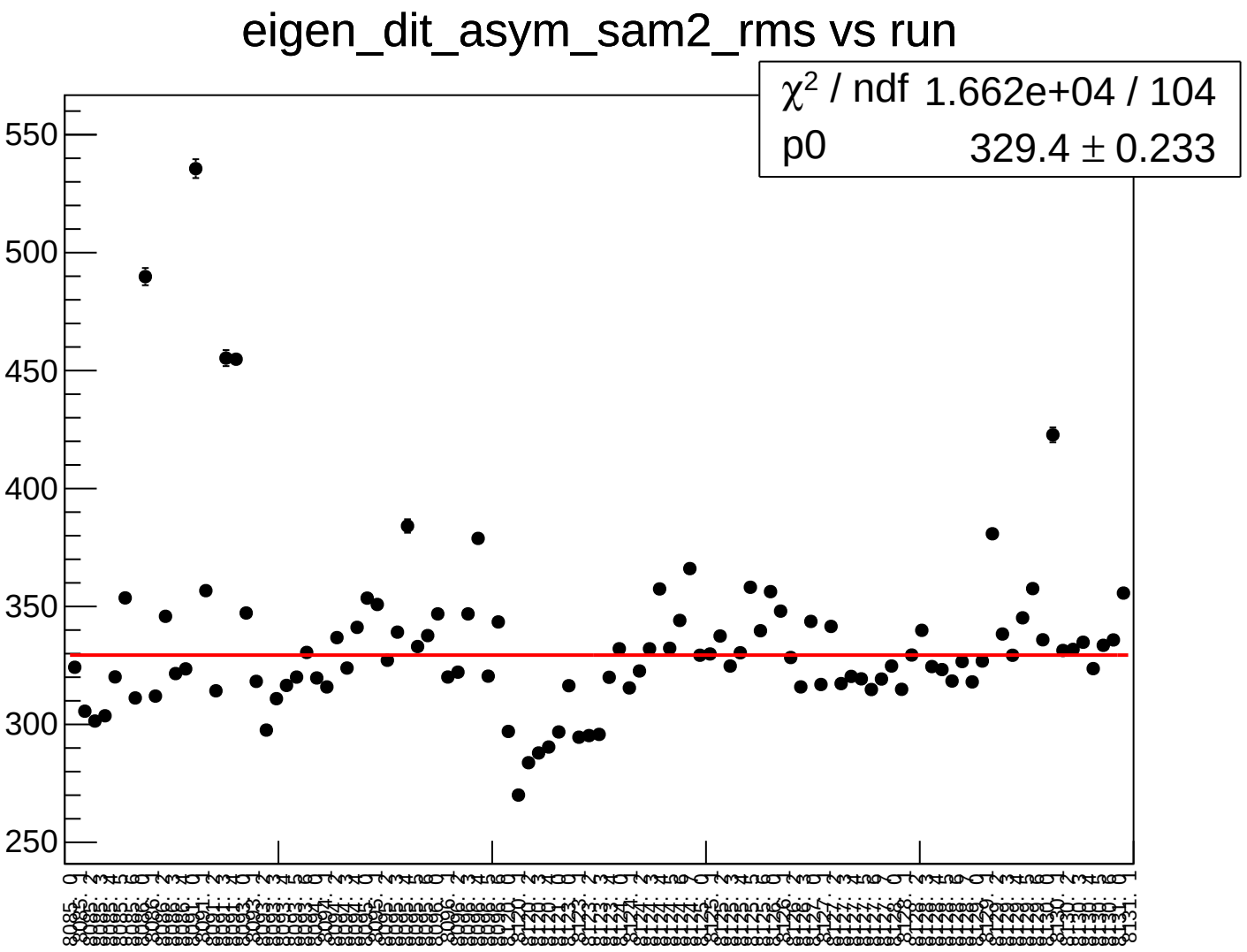

asym_sam2_dit_correction_mean vs run
×10^3
χ² / ndf 75.6 / 104
p0 −5849 ± 4675
150
100
50
0
−50
−100
−150
pull
Entries 105
Mean −22.79
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

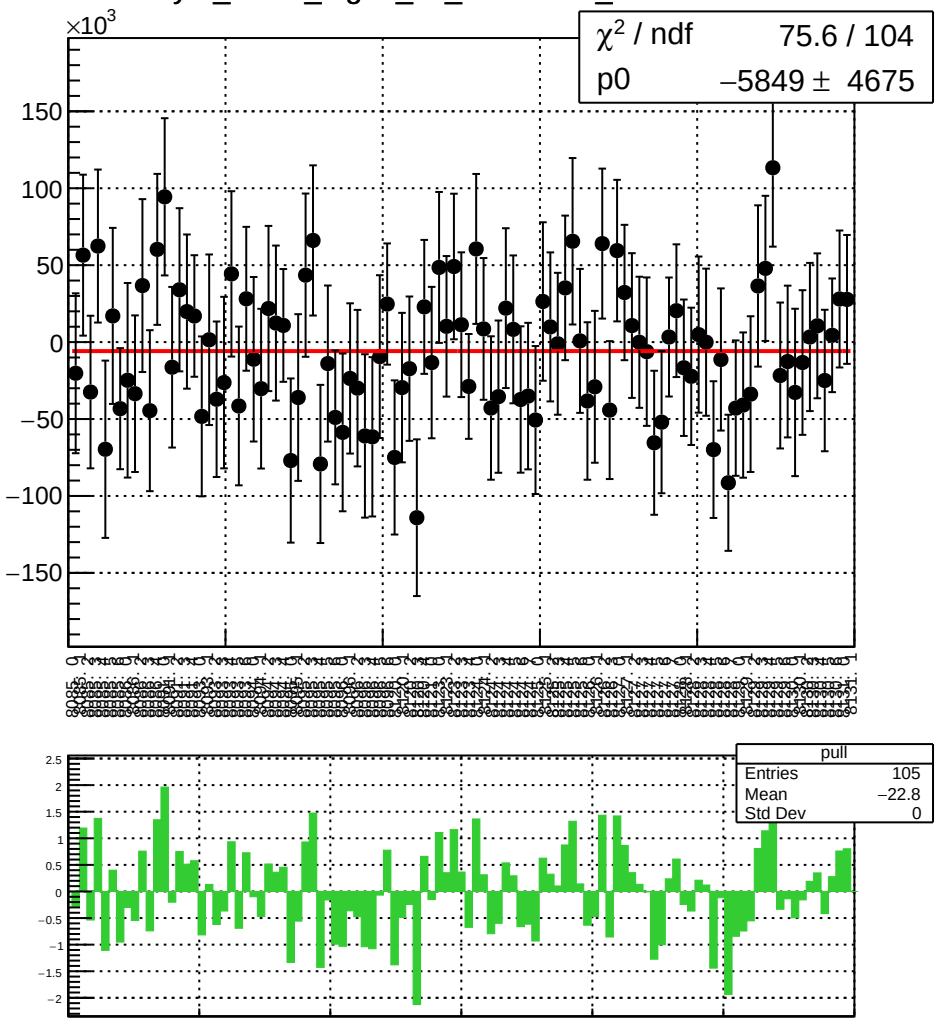

pull1D
Entries 105
Mean −0.001495
Std Dev 0.8485
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

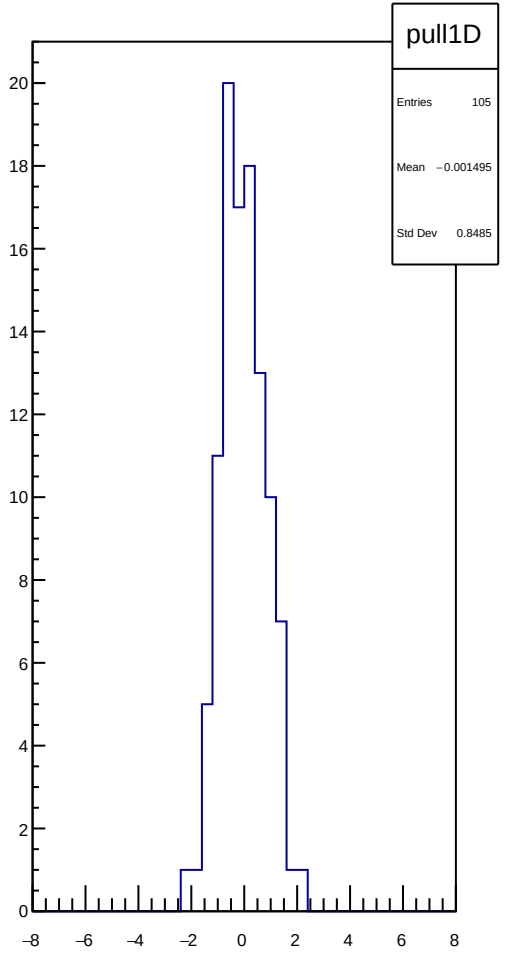

asym_sam2_dit_correction_rms vs run
$\chi^2$ / ndf 9642 / 104
p0 4680 ± 3.305
6000
5500
5000
4500
4000

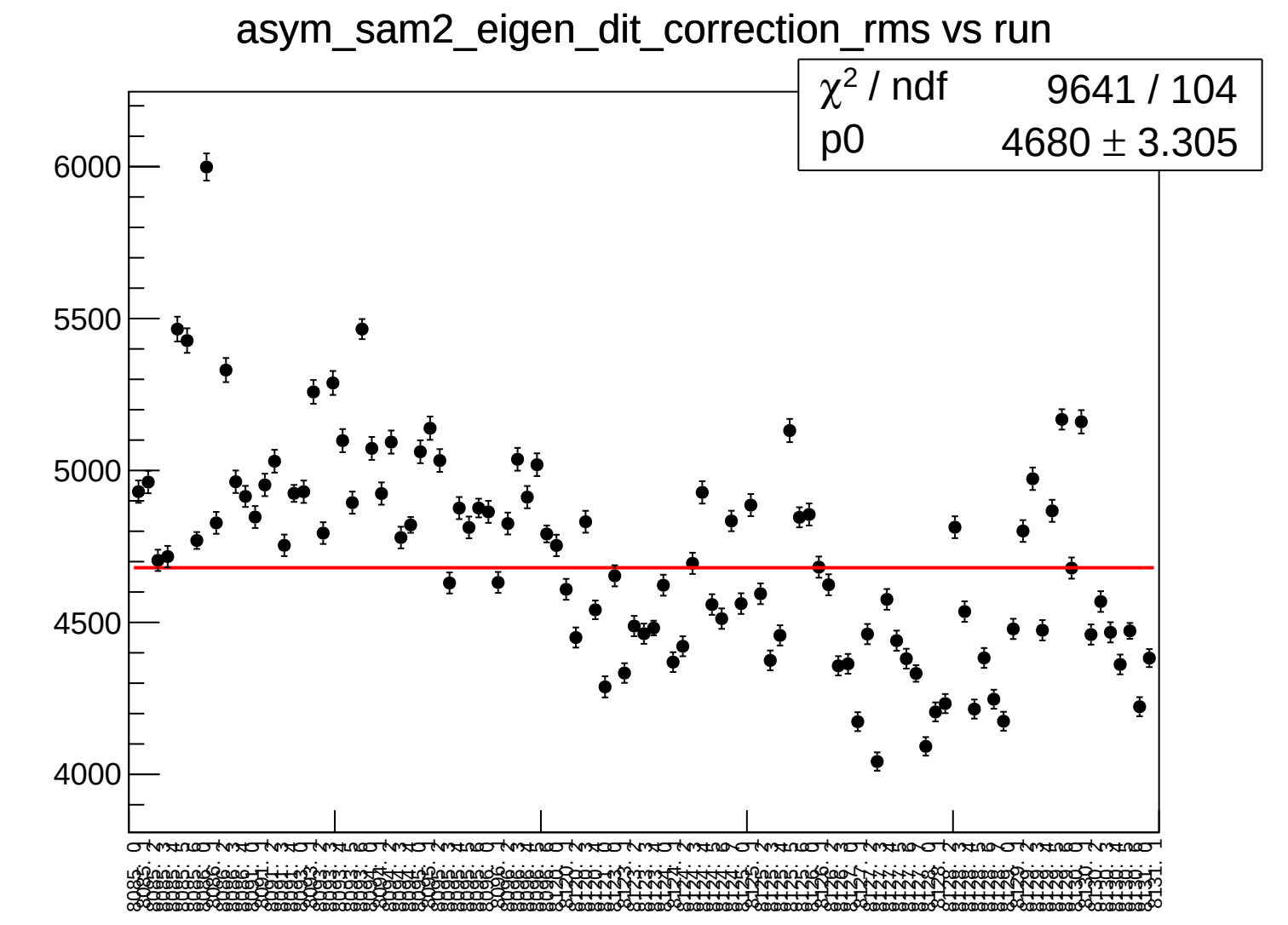

eigen_dit_asym_sam2_mean vs run
χ² / ndf 86.86 / 104
p0 −478.4 ± 329.6
10000
5000
0
−5000
−10000
−15000
pull
Entries 105
Mean −472
Std Dev 0
2
1
0
−1
−2

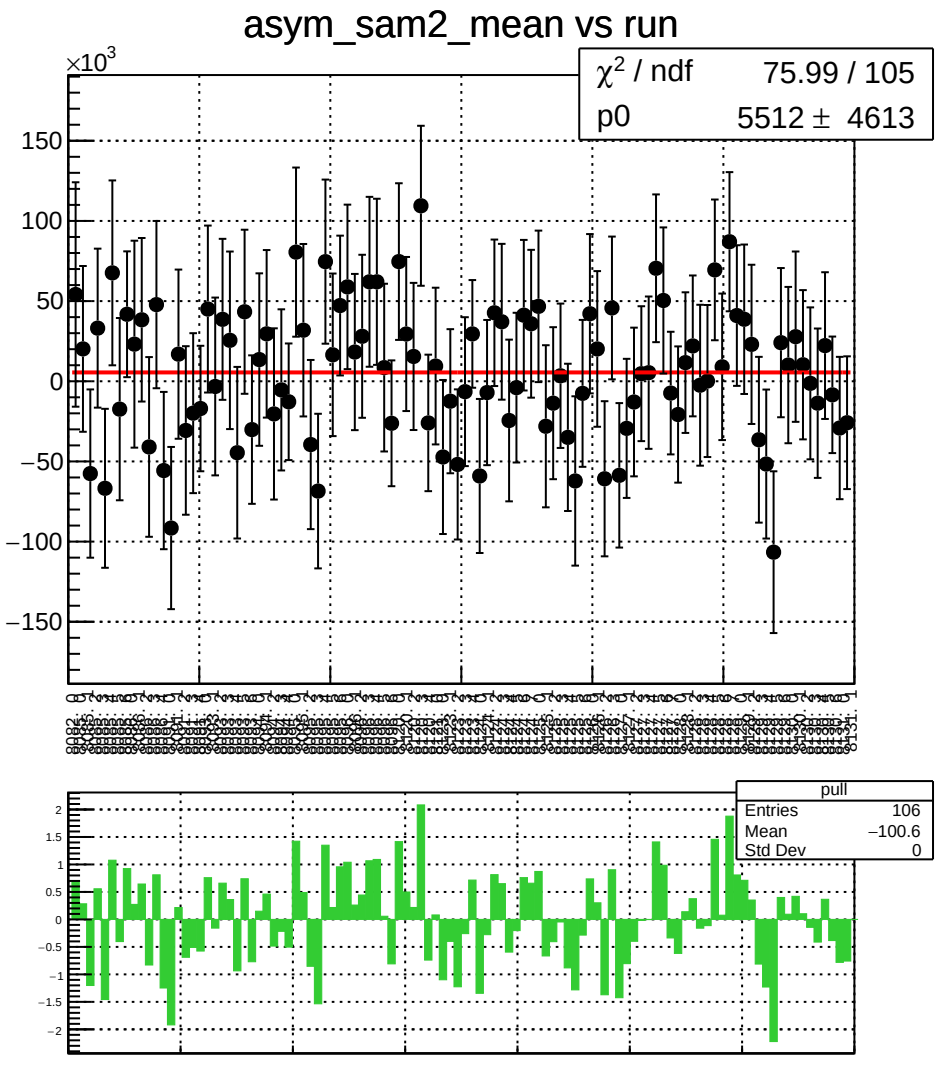

pull1D
Entries 105
Mean 0.007088
Std Dev 0.9095
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

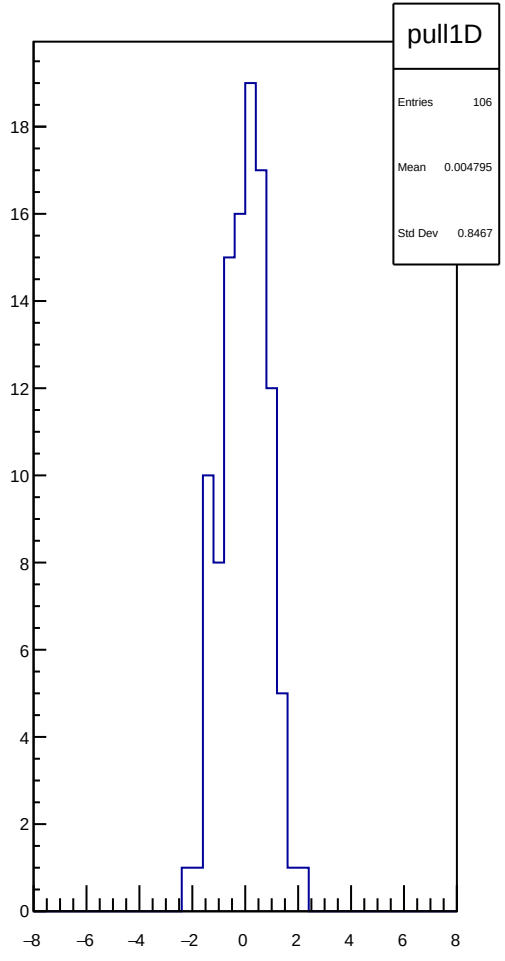

eigen_dit_asym_sam2_rms vs run
$\chi^2$ / ndf 1.662e+04 / 104
p0 329.4 ± 0.233
550
500
450
400
350
300
250

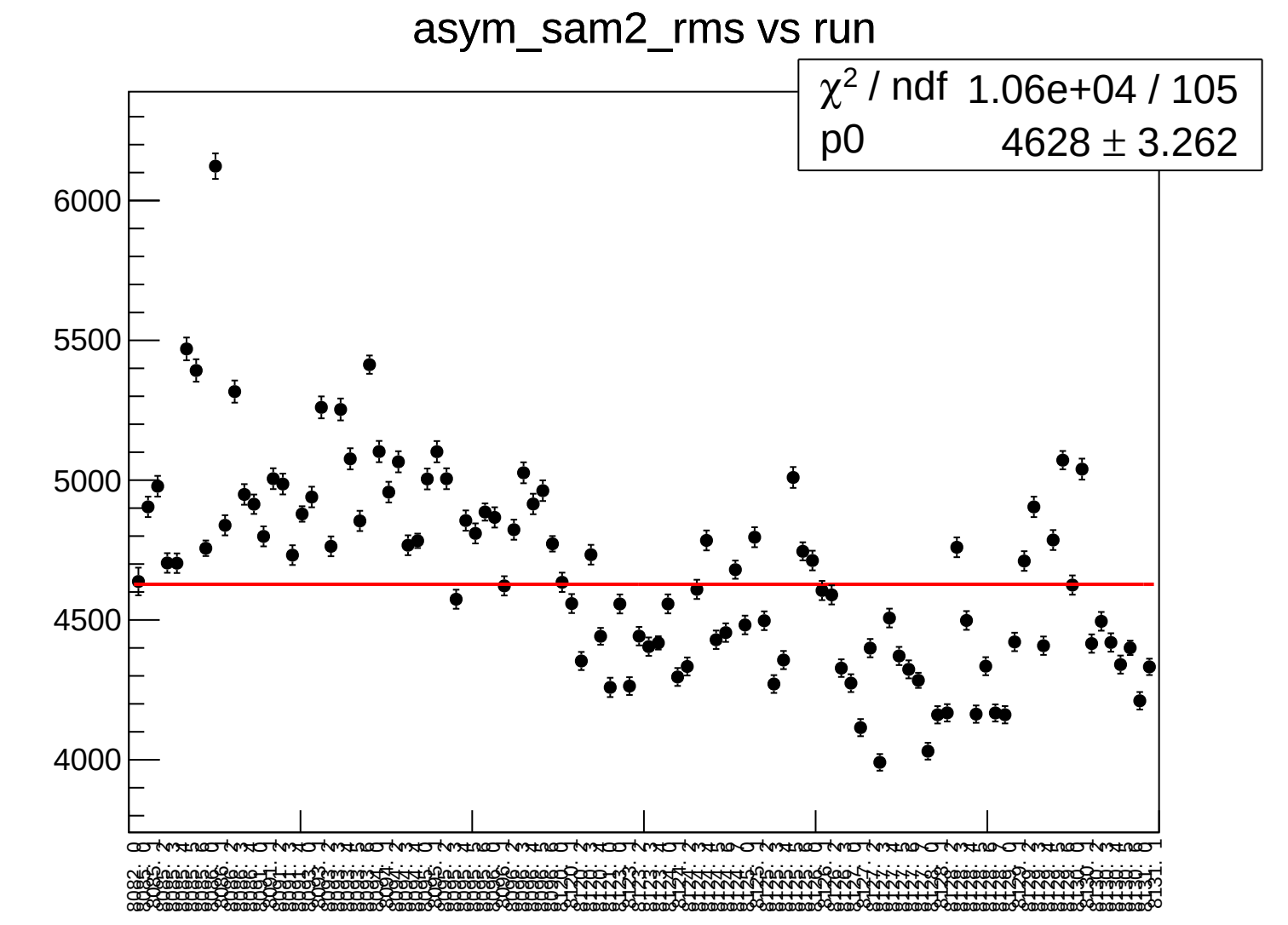

asym_sam2_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 75.6 / 104
p0 −5849 ± 4675
150
100
50
0
−50
−100
−150
pull
Entries 105
Mean −22.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

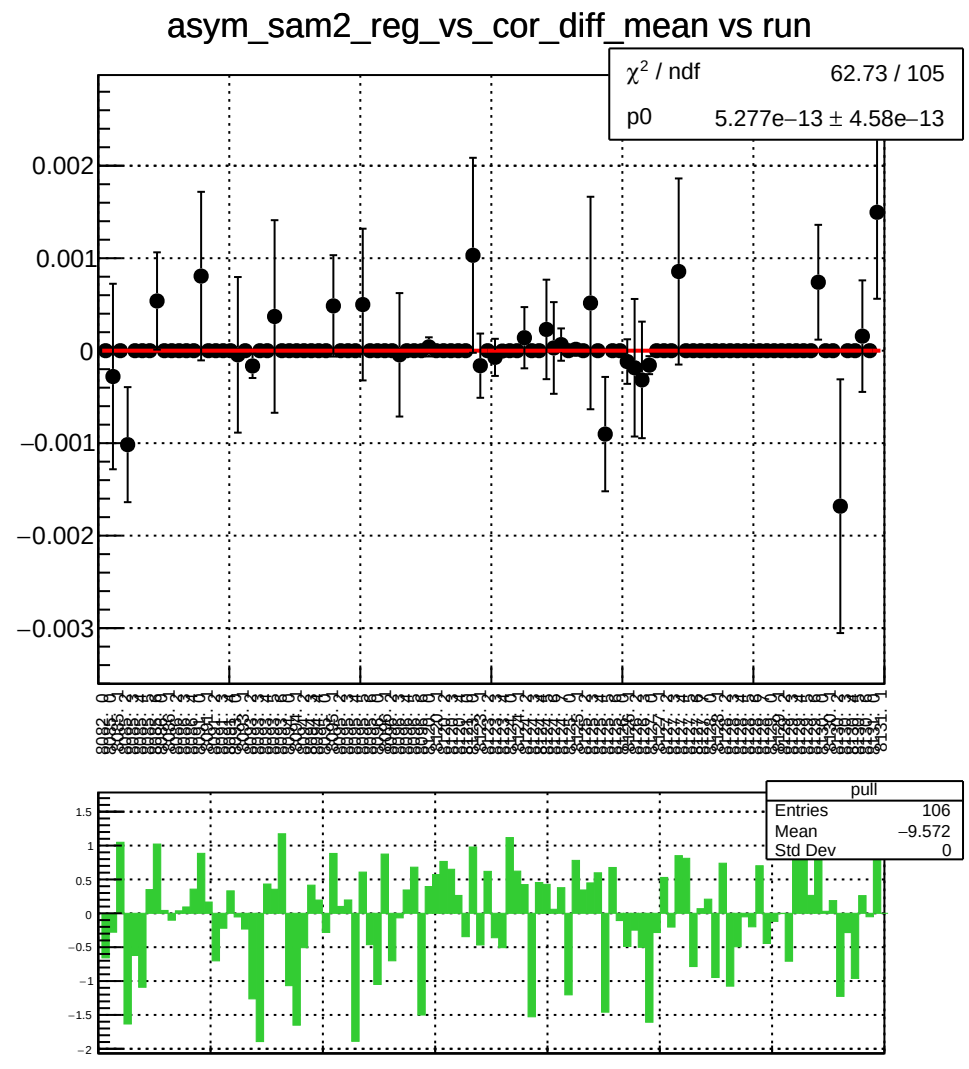

pull1D
Entries 105
Mean −0.001495
Std Dev 0.8485
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

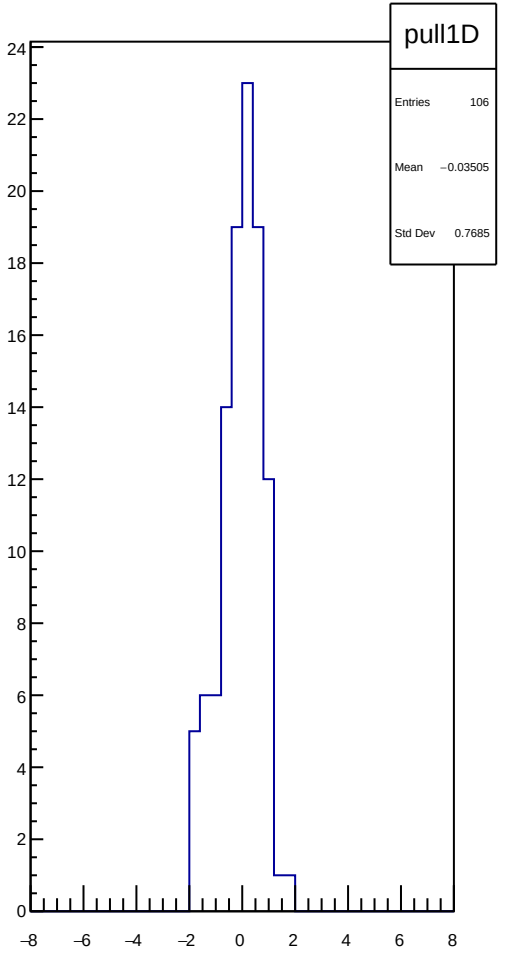

asym_sam2_eigen_dit_correction_rms vs run
χ² / ndf 9641 / 104
p0 4680 ± 3.305
6000
5500
5000
4500
4000

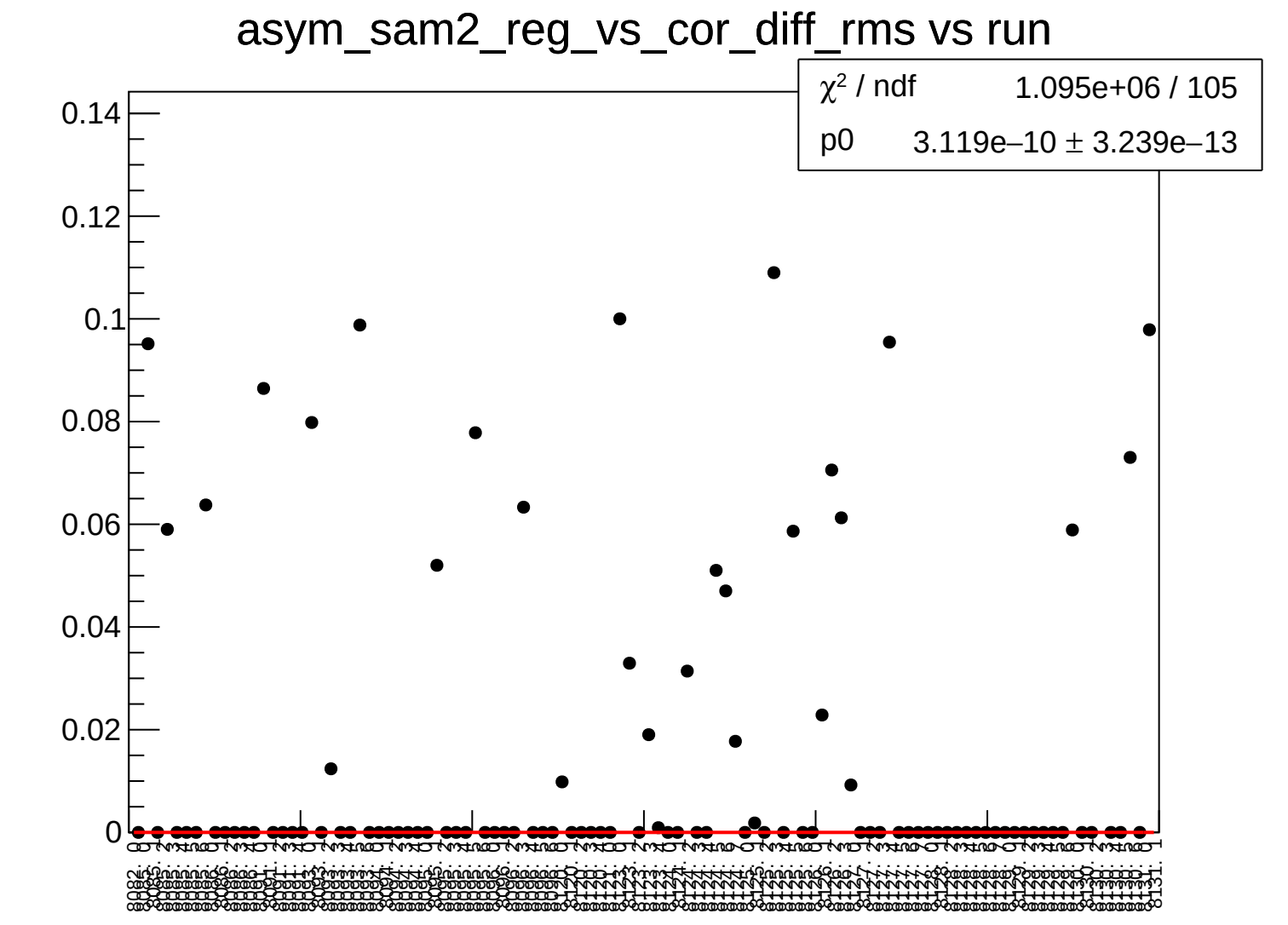

asym_sam2_mean vs run
×10^3
χ^2 / ndf 75.99 / 105
p0 5512 ± 4613
150
100
50
0
−50
−100
−150
pull
Entries 106
Mean −100.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

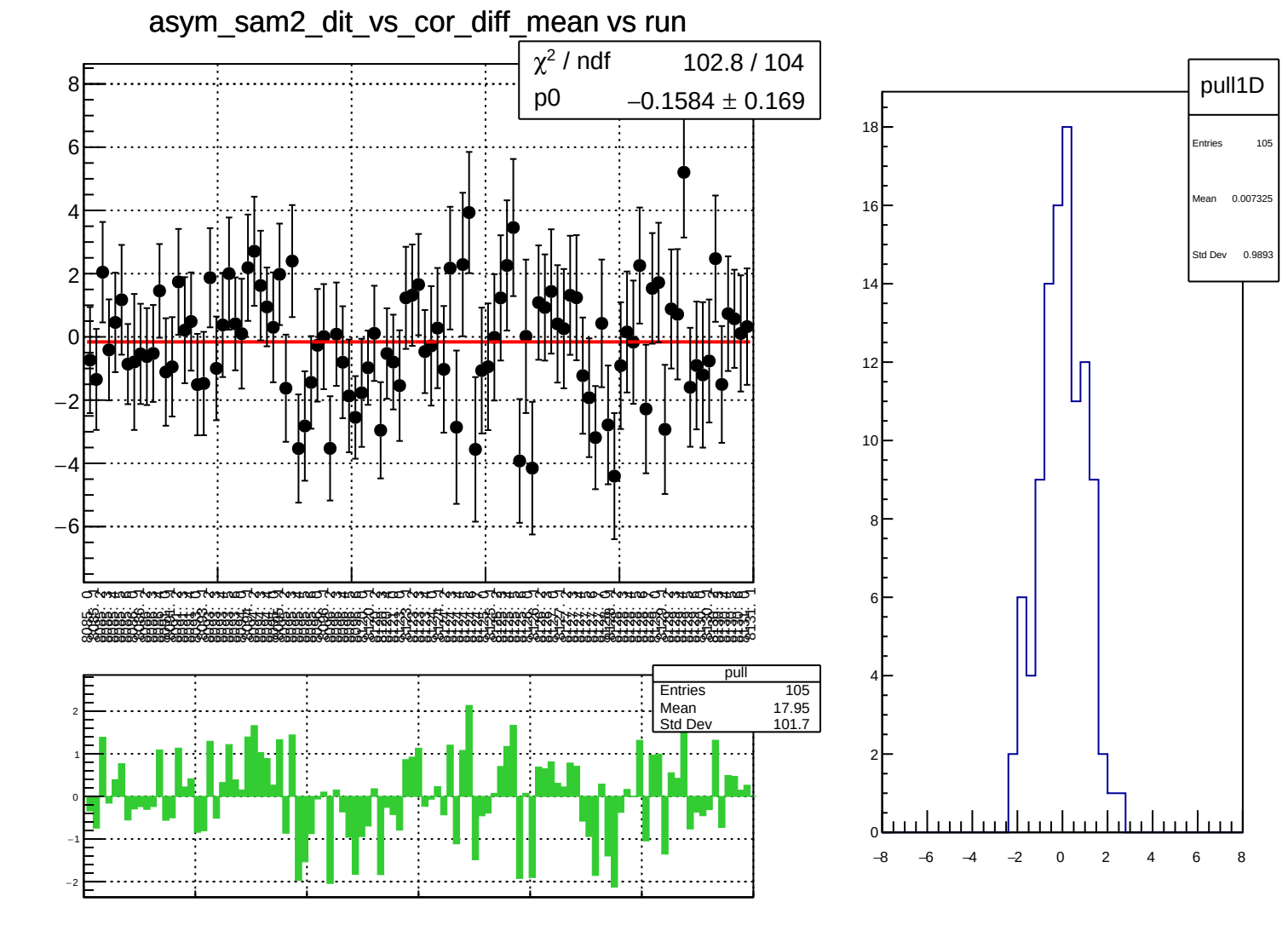

pull1D
Entries 106
Mean 0.004795
Std Dev 0.8467
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

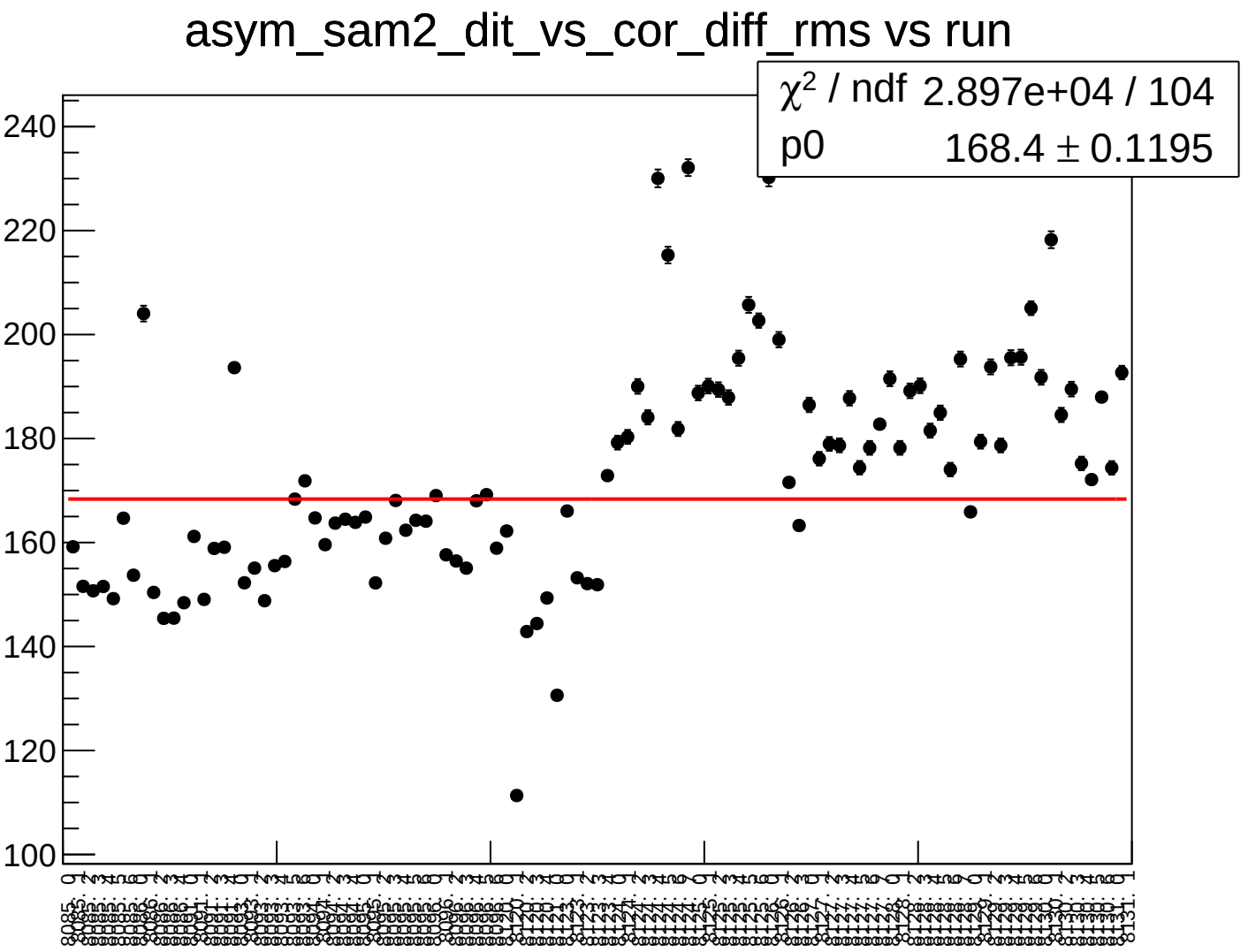

asym_sam2_rms vs run
χ² / ndf 1.06e+04 / 105
p0 4628 ± 3.262
6000
5500
5000
4500
4000

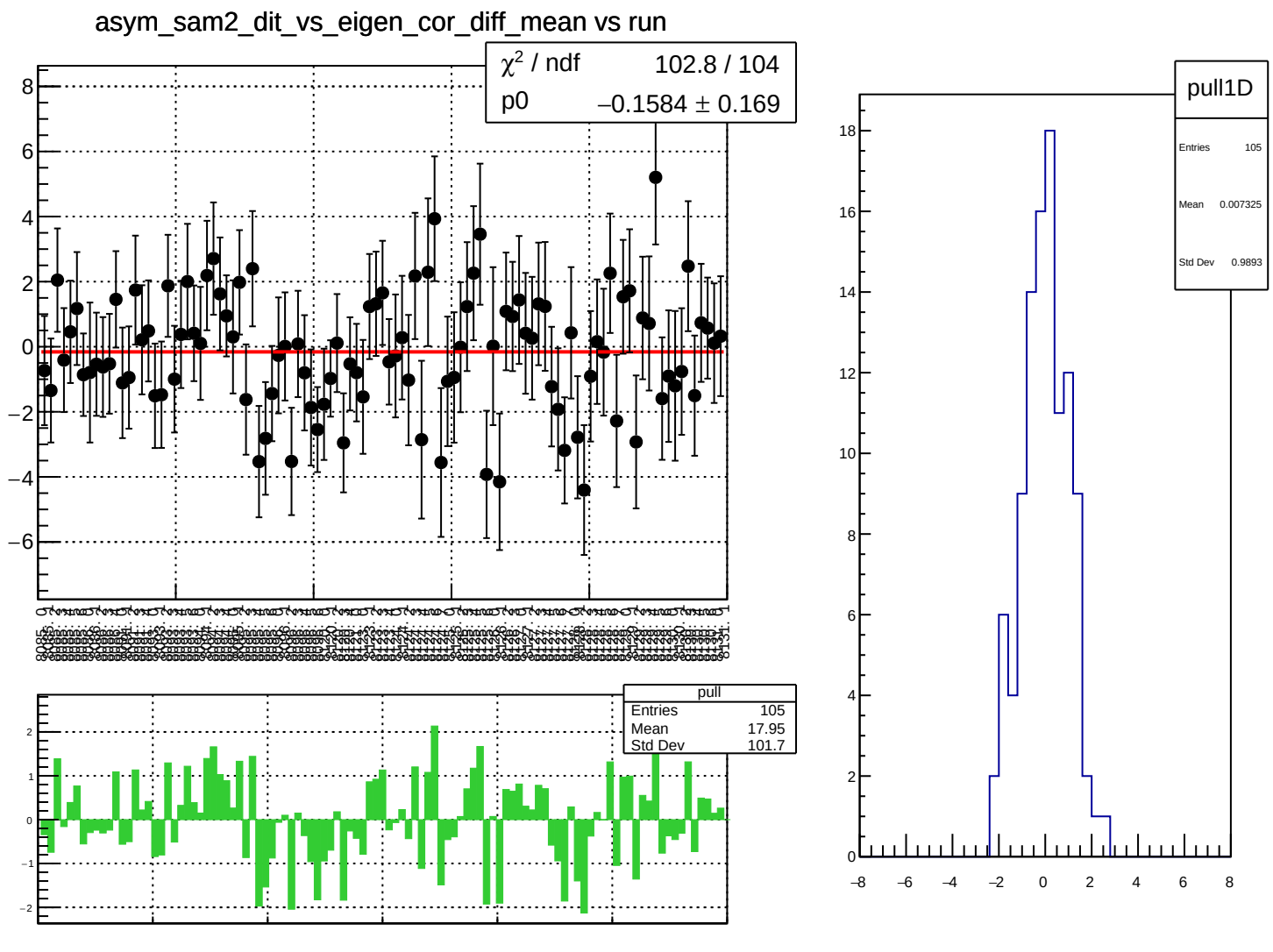

asym_sam2_reg_vs_cor_diff_mean vs run
χ² / ndf 62.73 / 105
p0 5.277e−13 ± 4.58e−13
0.002
0.001
0
−0.001
−0.002
−0.003
pull
Entries 106
Mean −9.572
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

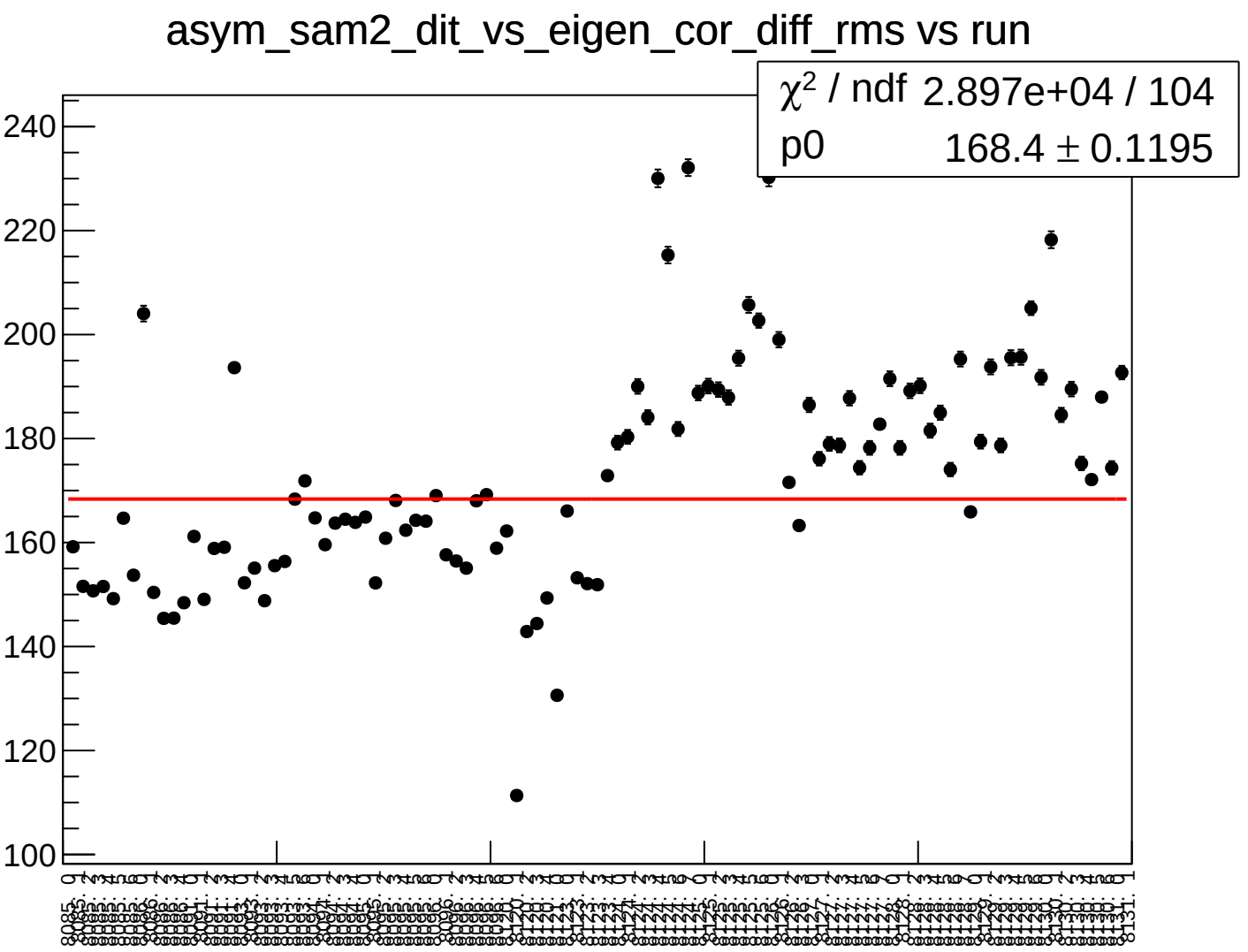

pull1D
Entries 106
Mean −0.03505
Std Dev 0.7685
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

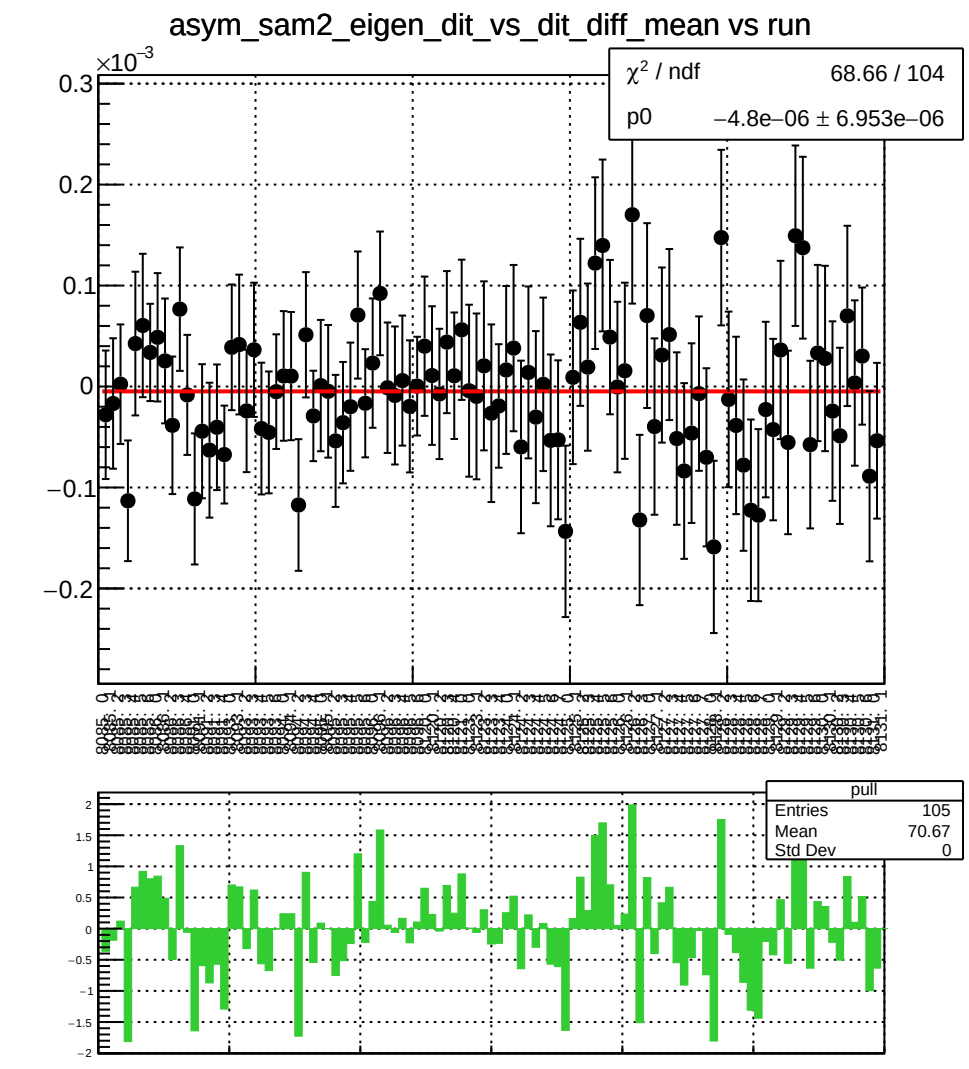

asym_sam2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.095e+06 / 105
p0 3.119e−10 ± 3.239e−13
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

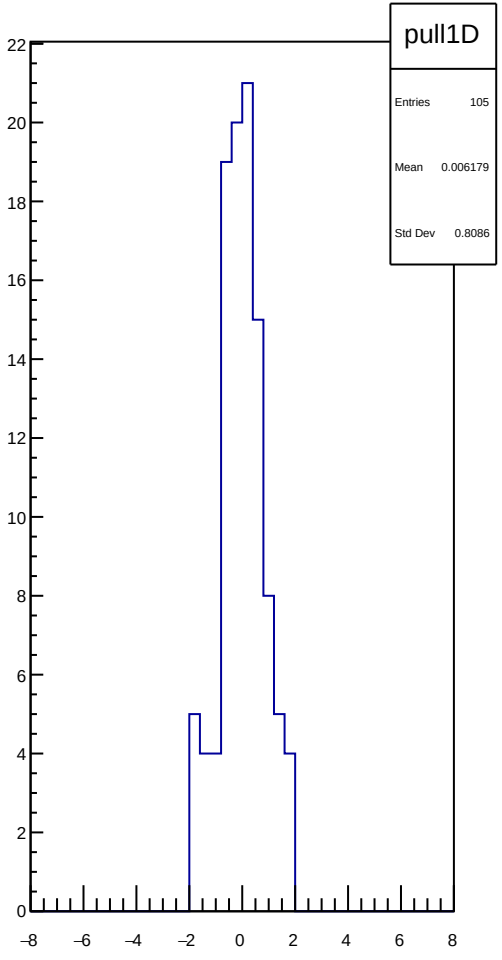

asym_sam2_dit_vs_cor_diff_mean vs run
χ² / ndf 102.8 / 104
p0 −0.1584 ± 0.169
pull
Entries 105
Mean 17.95
Std Dev 101.7
pull1D
Entries 105
Mean 0.007325
Std Dev 0.9893

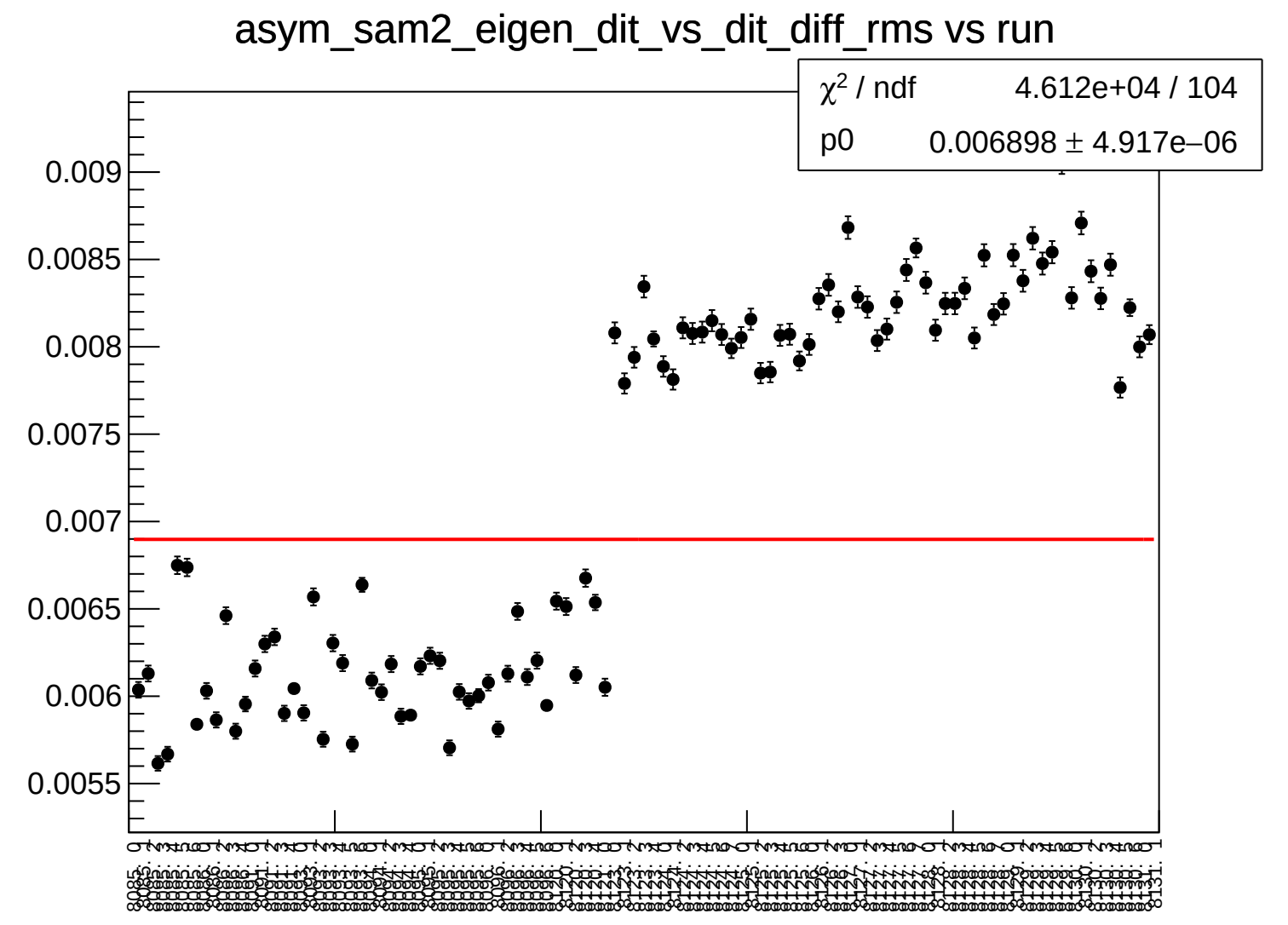

asym_sam2_dit_vs_cor_diff_rms vs run
χ² / ndf 2.897e+04 / 104
p0 168.4 ± 0.1195
240
220
200
180
160
140
120
100

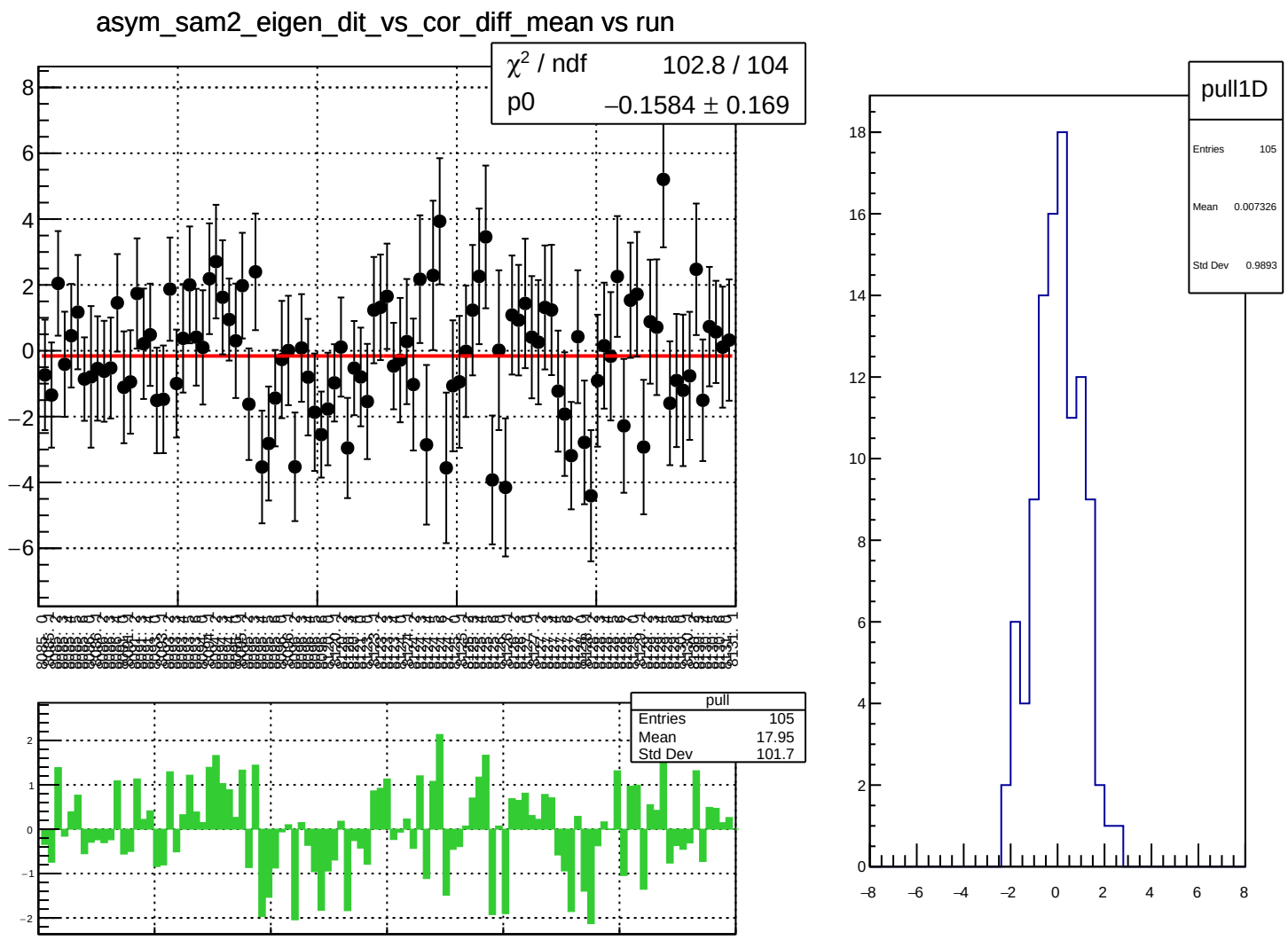

asym_sam2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.8 / 104
p0 −0.1584 ± 0.169
pull
Entries 105
Mean 17.95
Std Dev 101.7
pull1D
Entries 105
Mean 0.007325
Std Dev 0.9893

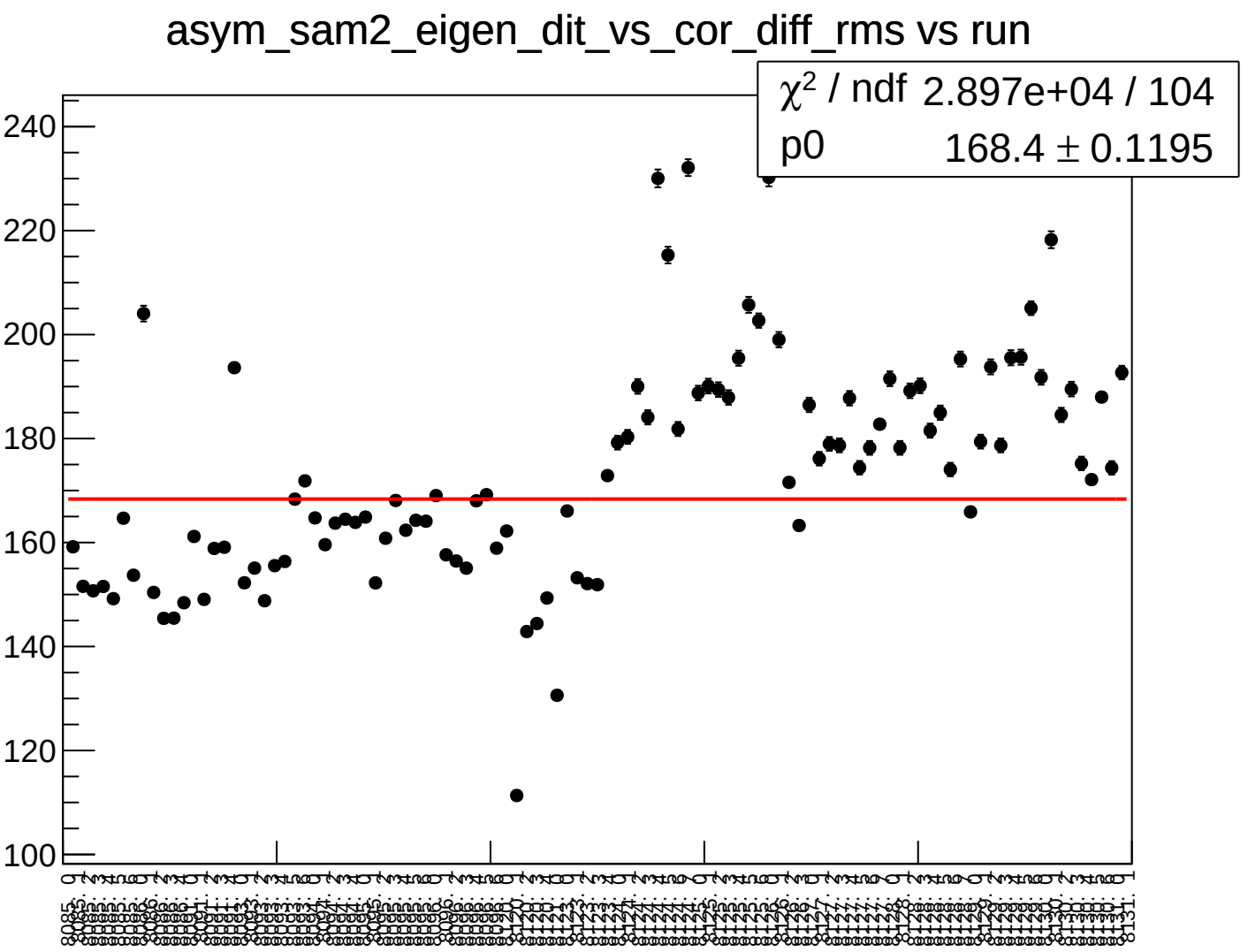

asym_sam2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.897e+04 / 104
p0 168.4 ± 0.1195
240
220
200
180
160
140
120
100

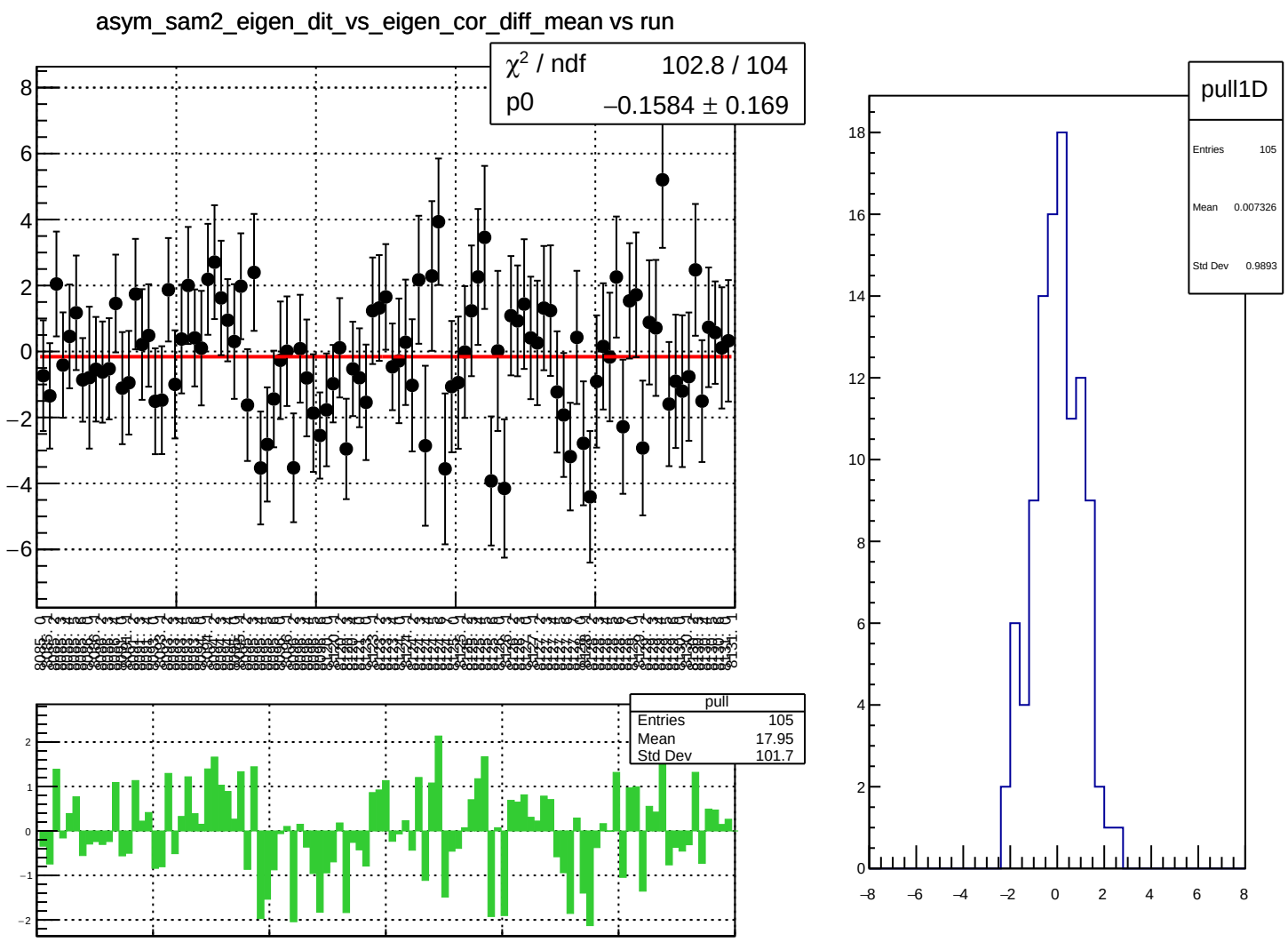

asym_sam2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 68.66 / 104
p0 −4.8e−06 ± 6.953e−06
pull
Entries 105
Mean 70.67
Std Dev 0

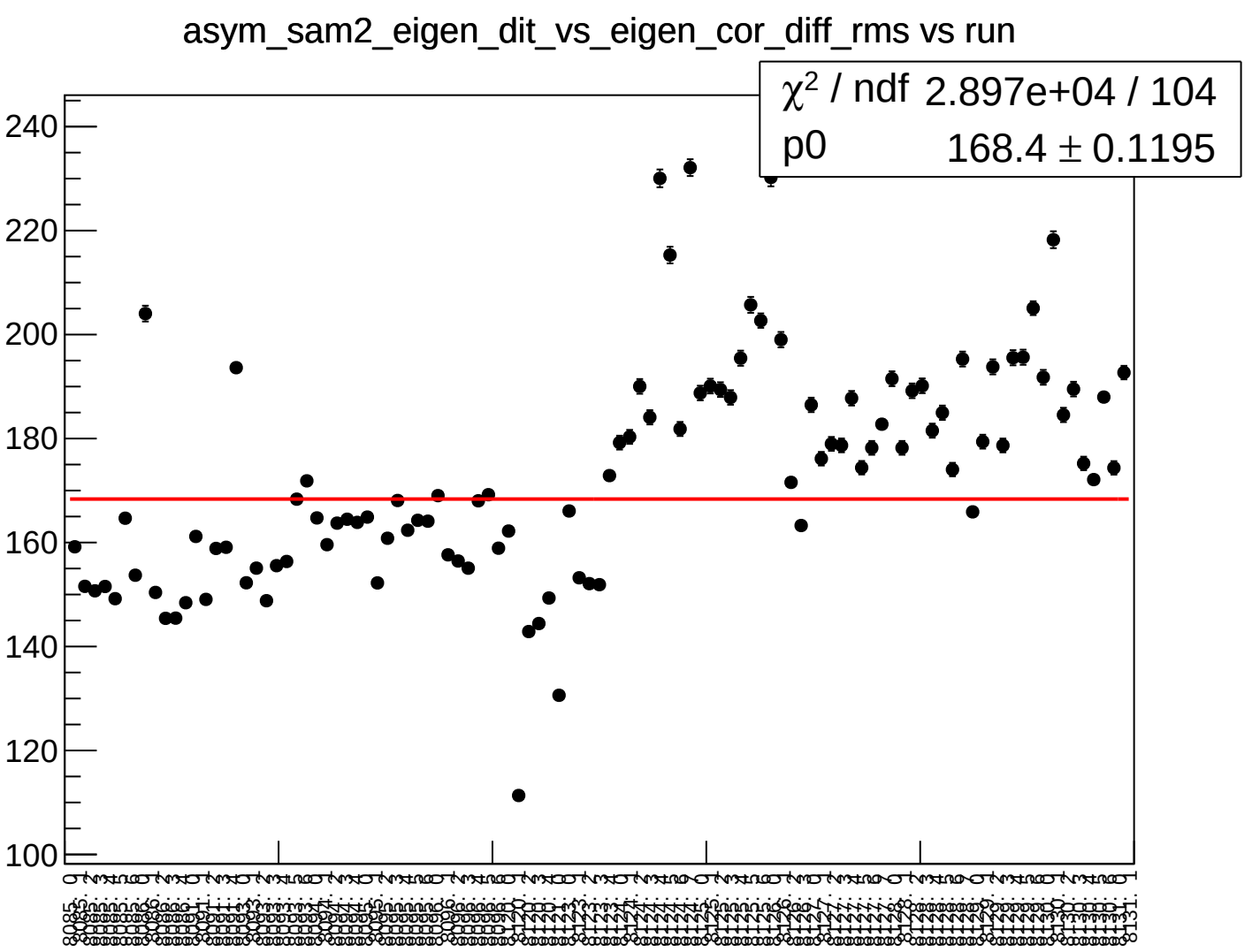

pull1D
Entries 105
Mean 0.006179
Std Dev 0.8086

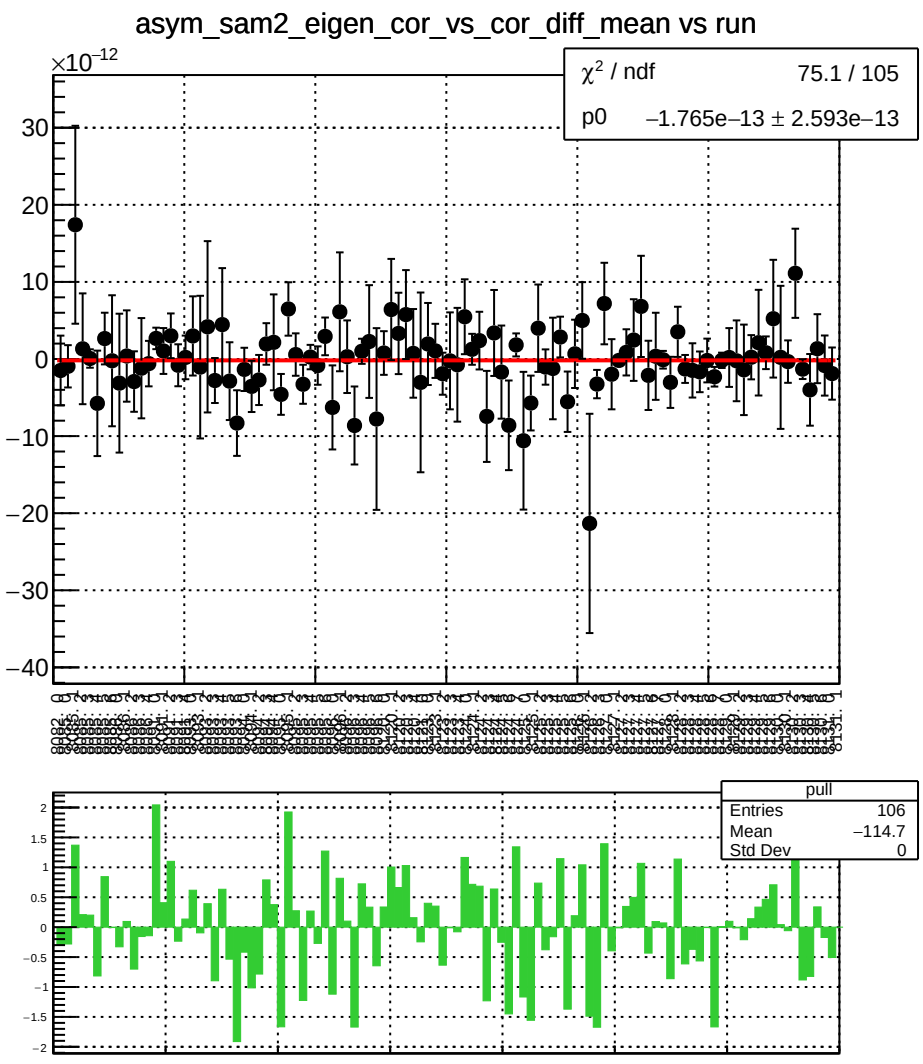

asym_sam2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.612e+04 / 104
p0 0.006898 ± 4.917e−06
0.009
0.0085
0.008
0.0075
0.007
0.0065
0.006
0.0055

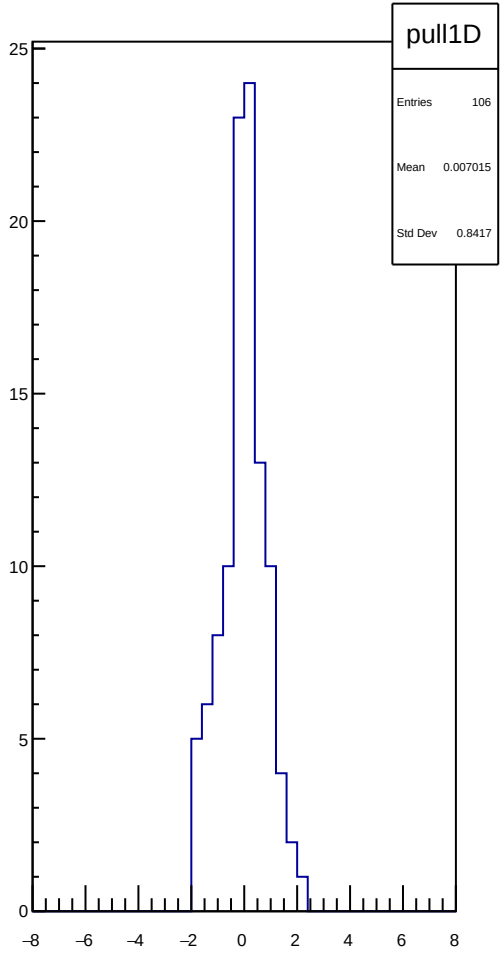

asym_sam2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 102.8 / 104
p0 −0.1584 ± 0.169
pull
Entries 105
Mean 17.95
Std Dev 101.7
pull1D
Entries 105
Mean 0.007326
Std Dev 0.9893

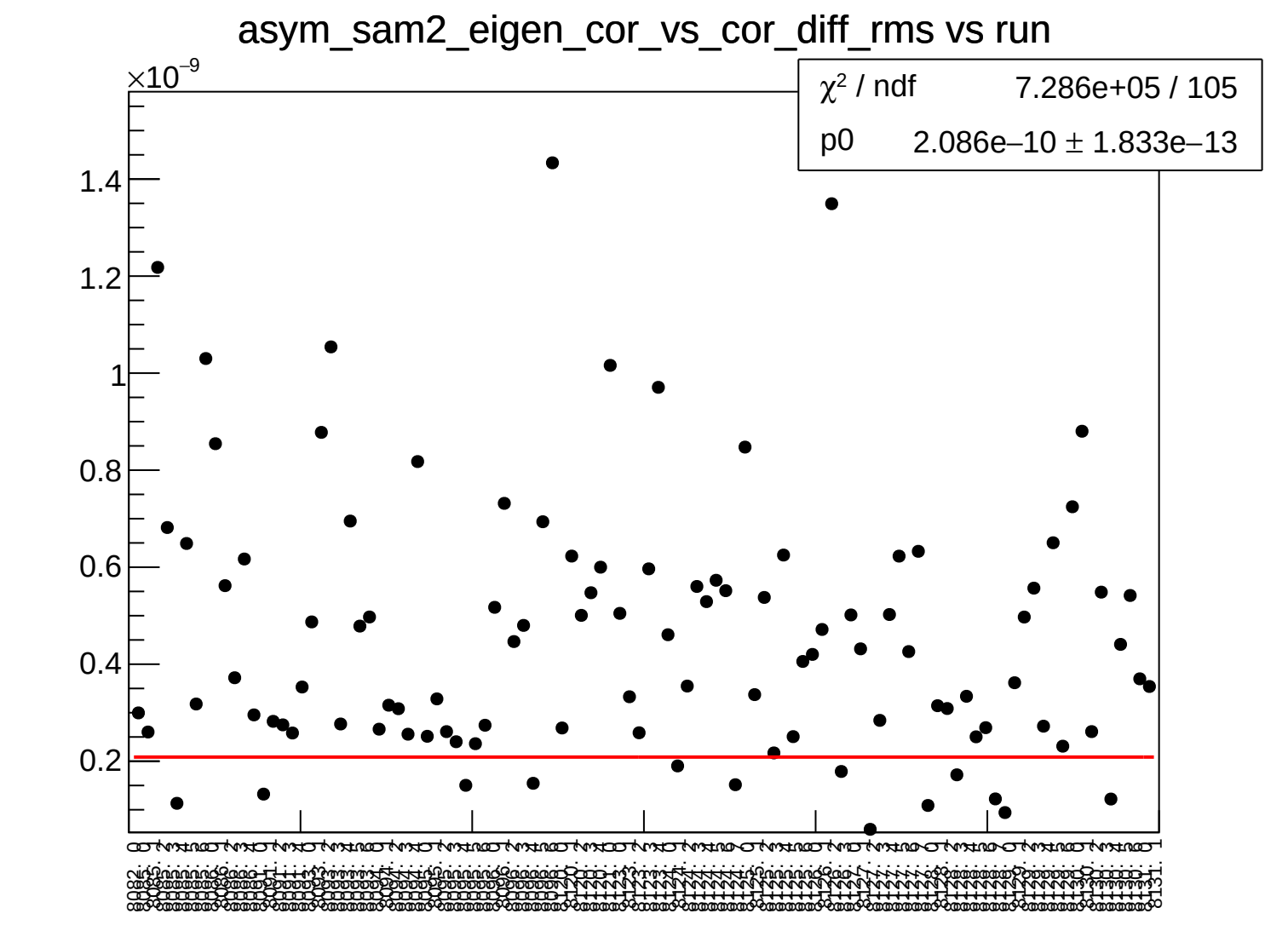

asym_sam2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.897e+04 / 104
p0 168.4 ± 0.1195
240
220
200
180
160
140
120
100

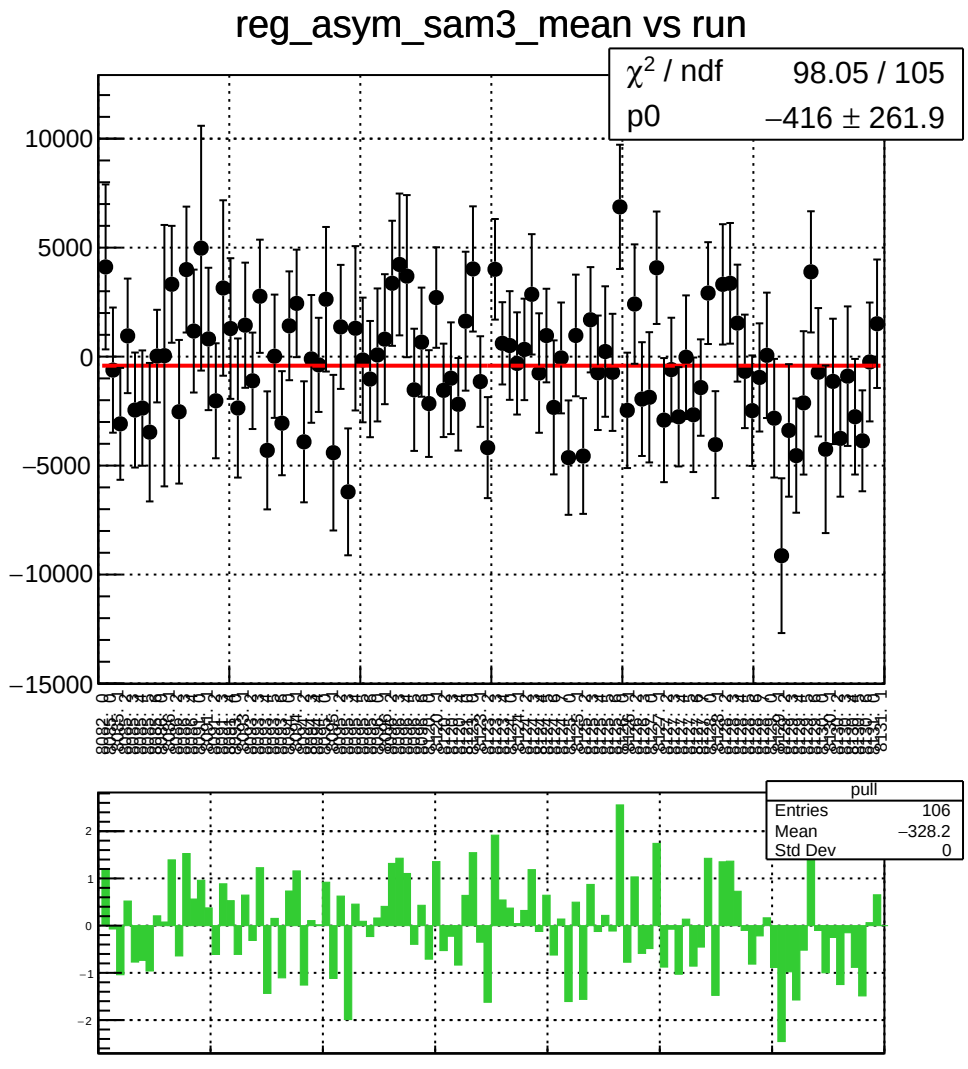

asym_sam2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.8 / 104
p0 −0.1584 ± 0.169
pull
Entries 105
Mean 17.95
Std Dev 101.7
pull1D
Entries 105
Mean 0.007326
Std Dev 0.9893

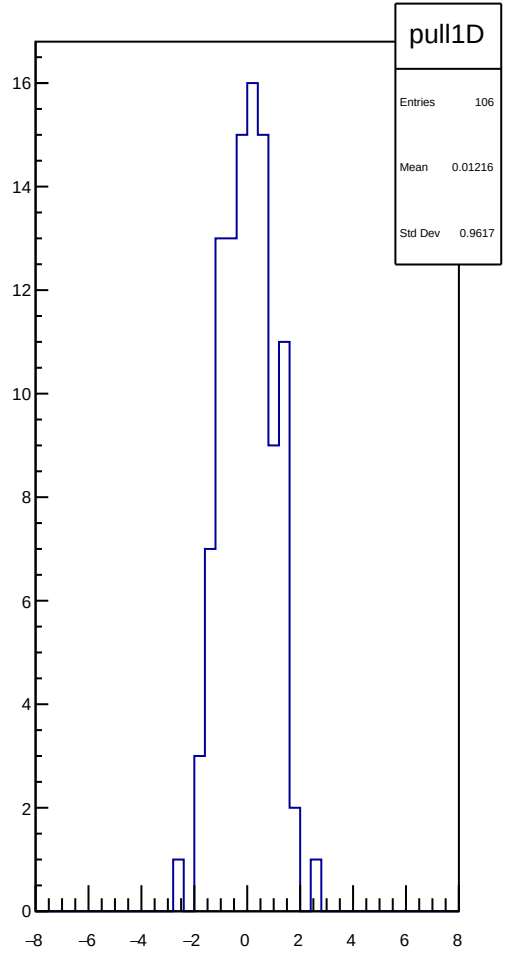

asym_sam2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.897e+04 / 104
p0 168.4 ± 0.1195
240
220
200
180
160
140
120
100

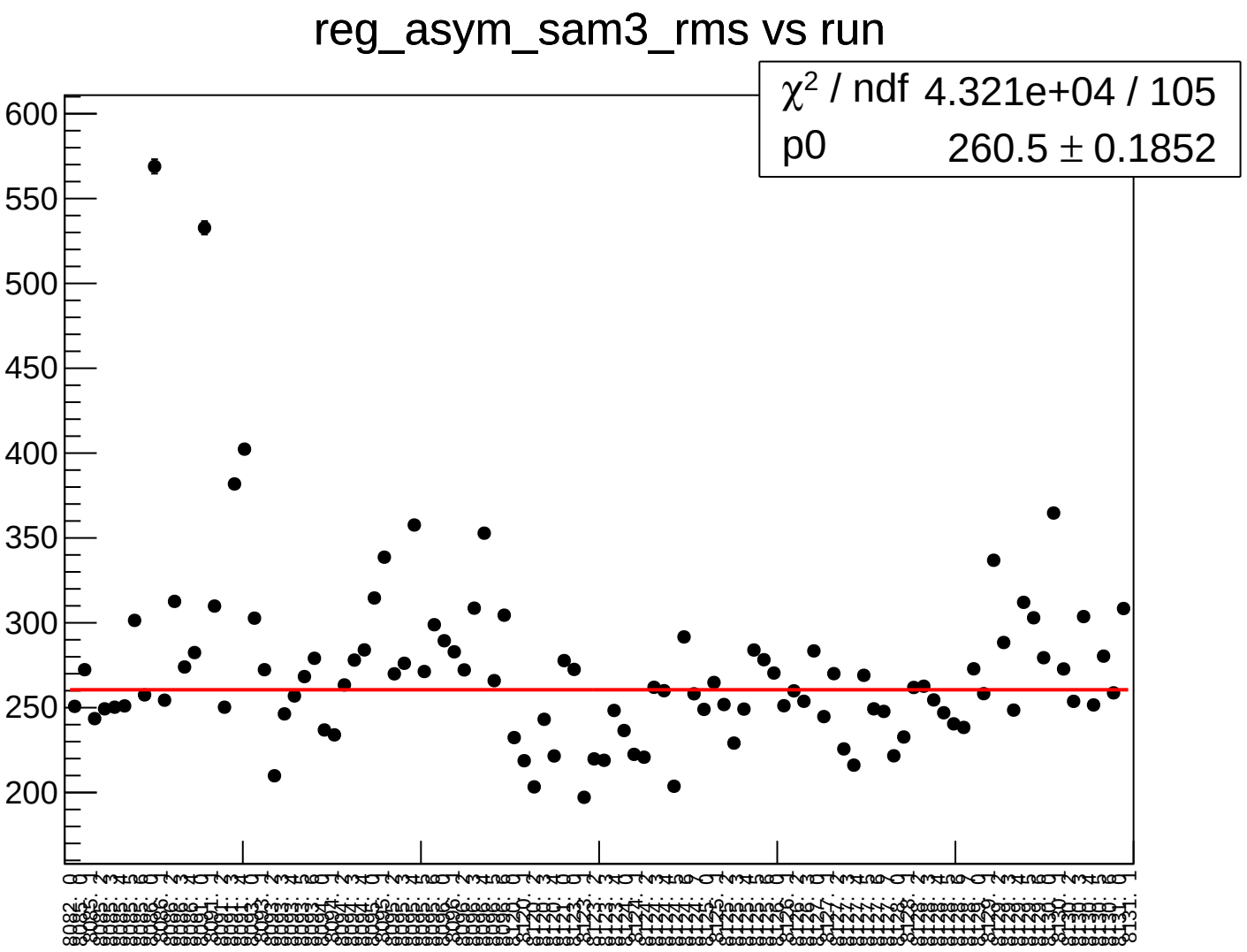

asym_sam2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.1 / 105
p0 −1.765e−13 ± 2.593e−13
30
20
10
0
−10
−20
−30
−40
pull
Entries 106
Mean −114.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

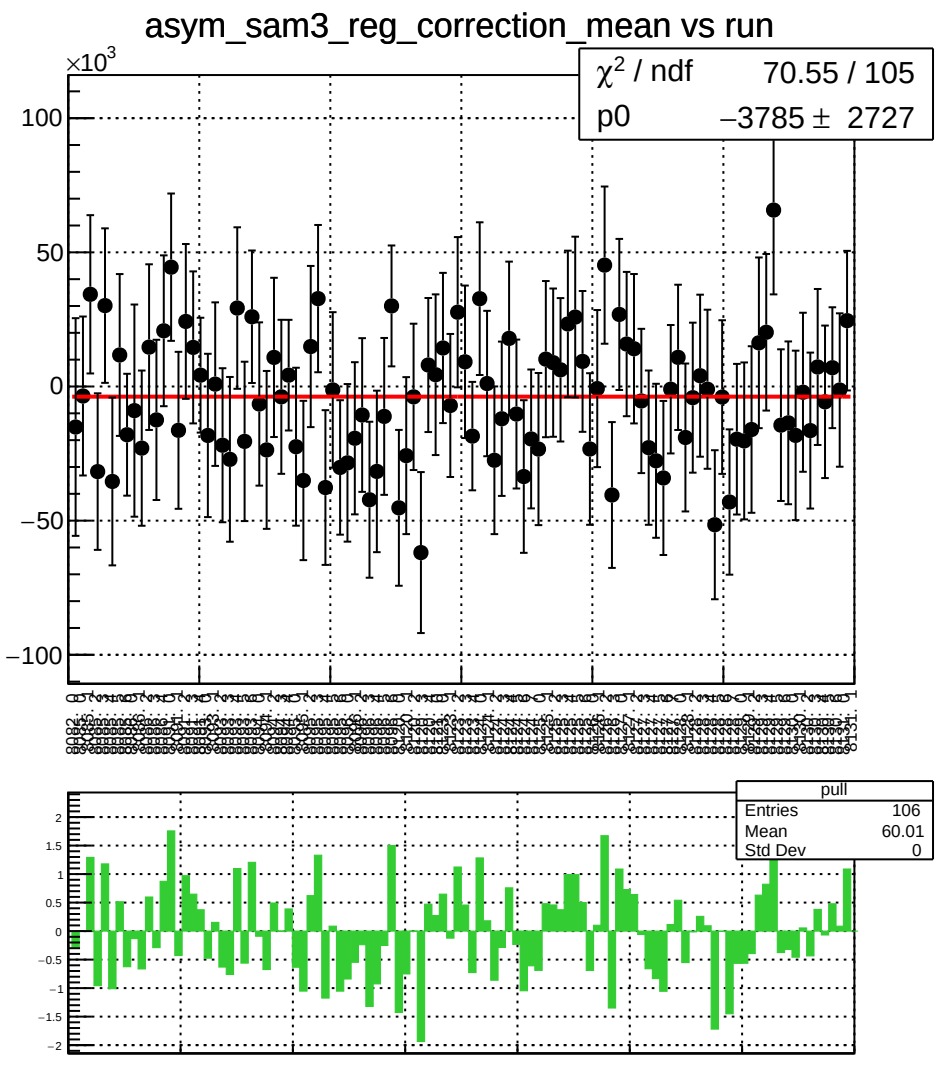

pull1D
Entries 106
Mean 0.007015
Std Dev 0.8417
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

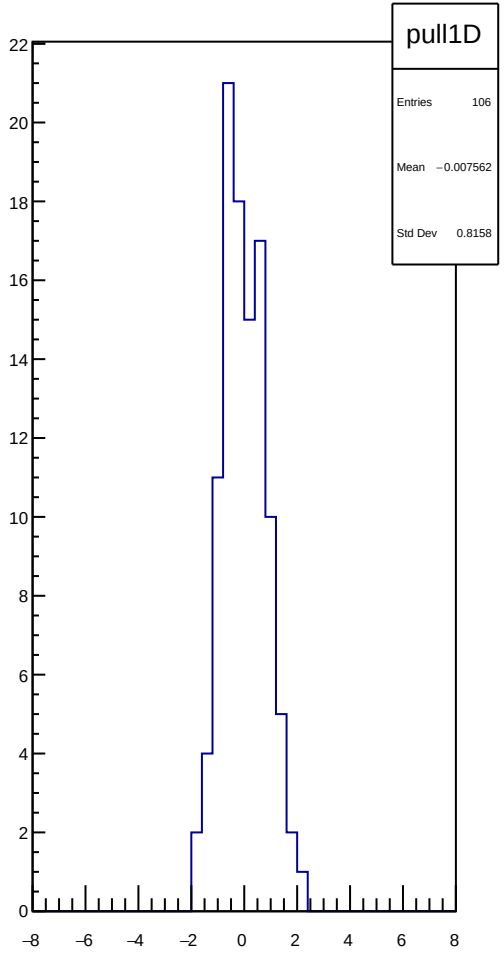

asym_sam2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.286e+05 / 105
p0 2.086e−10 ± 1.833e−13
1.4
1.2
1
0.8
0.6
0.4
0.2

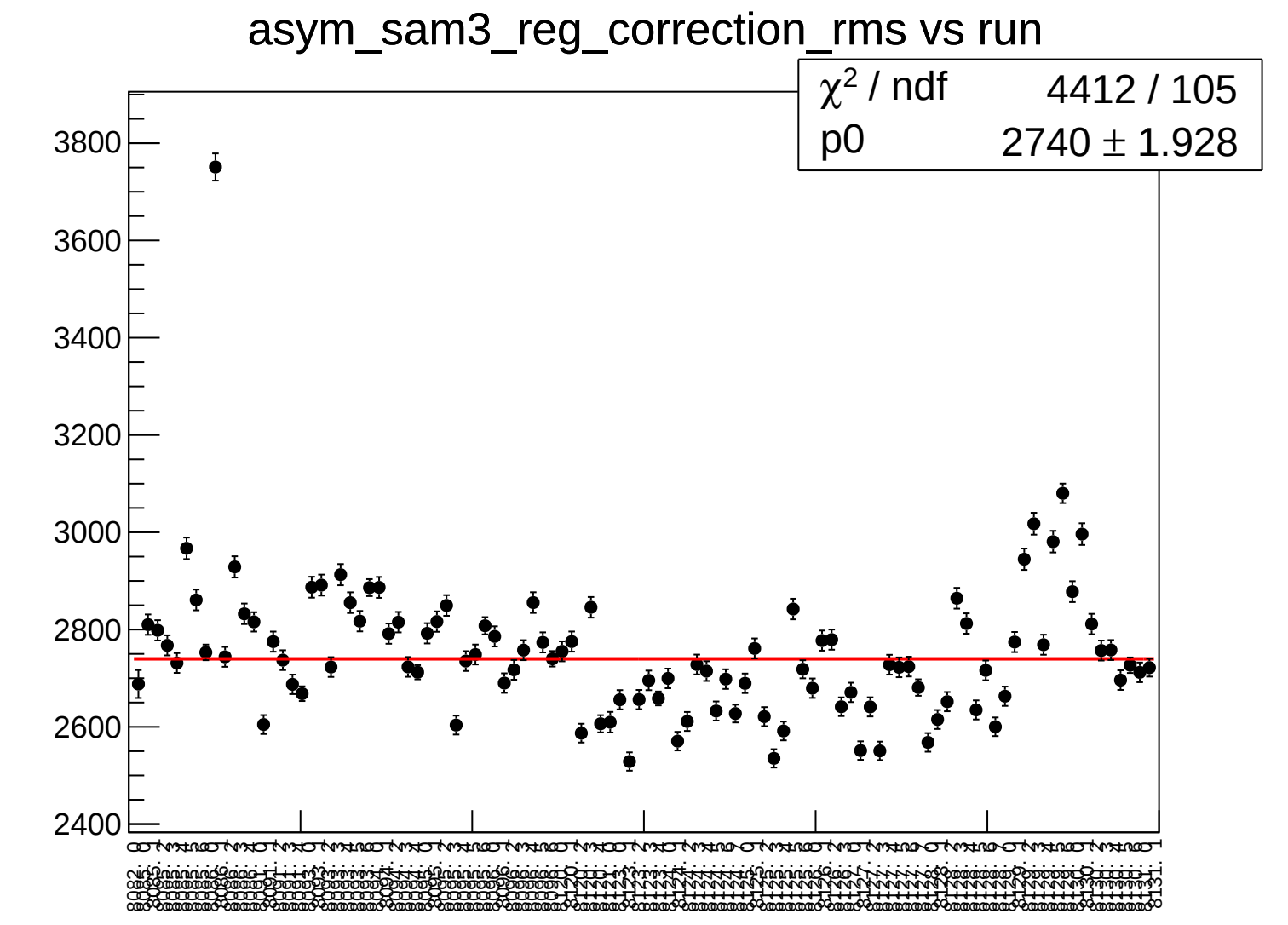

reg_asym_sam3_mean vs run
χ² / ndf 98.05 / 105
p0 −416 ± 261.9
10000
5000
0
−5000
−10000
−15000
pull
Entries 106
Mean −328.2
Std Dev 0
2
1
0
−1
−2

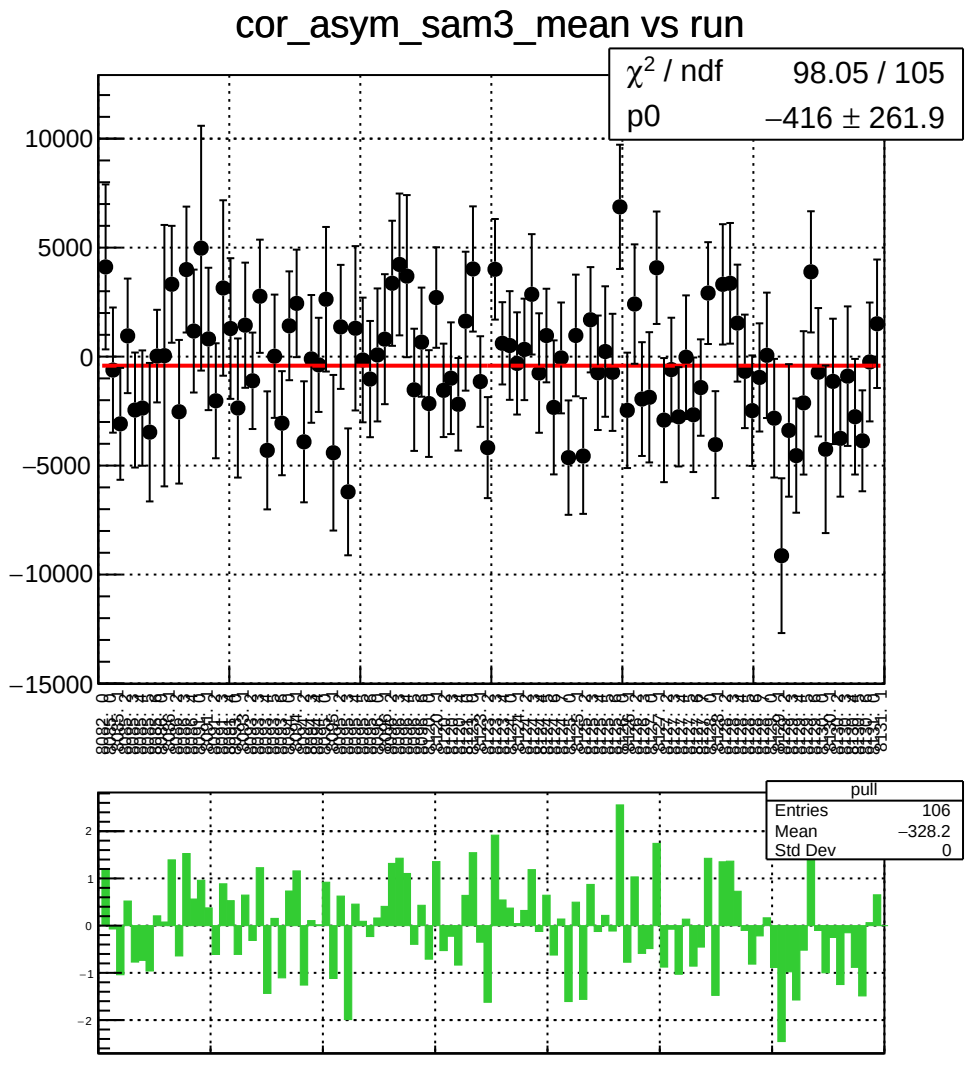

pull1D
Entries 106
Mean 0.01216
Std Dev 0.9617
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

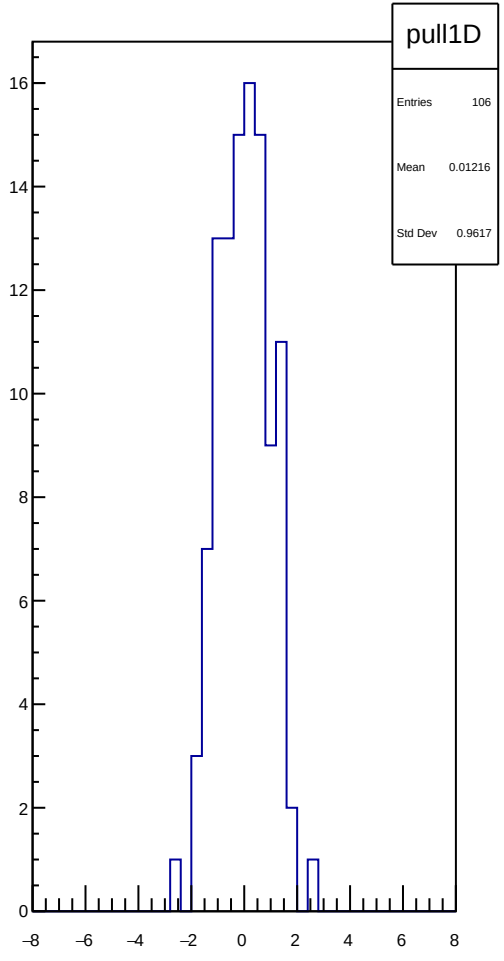

reg_asym_sam3_rms vs run
$\chi^2$ / ndf 4.321e+04 / 105
p0 260.5 ± 0.1852
600
550
500
450
400
350
300
250
200

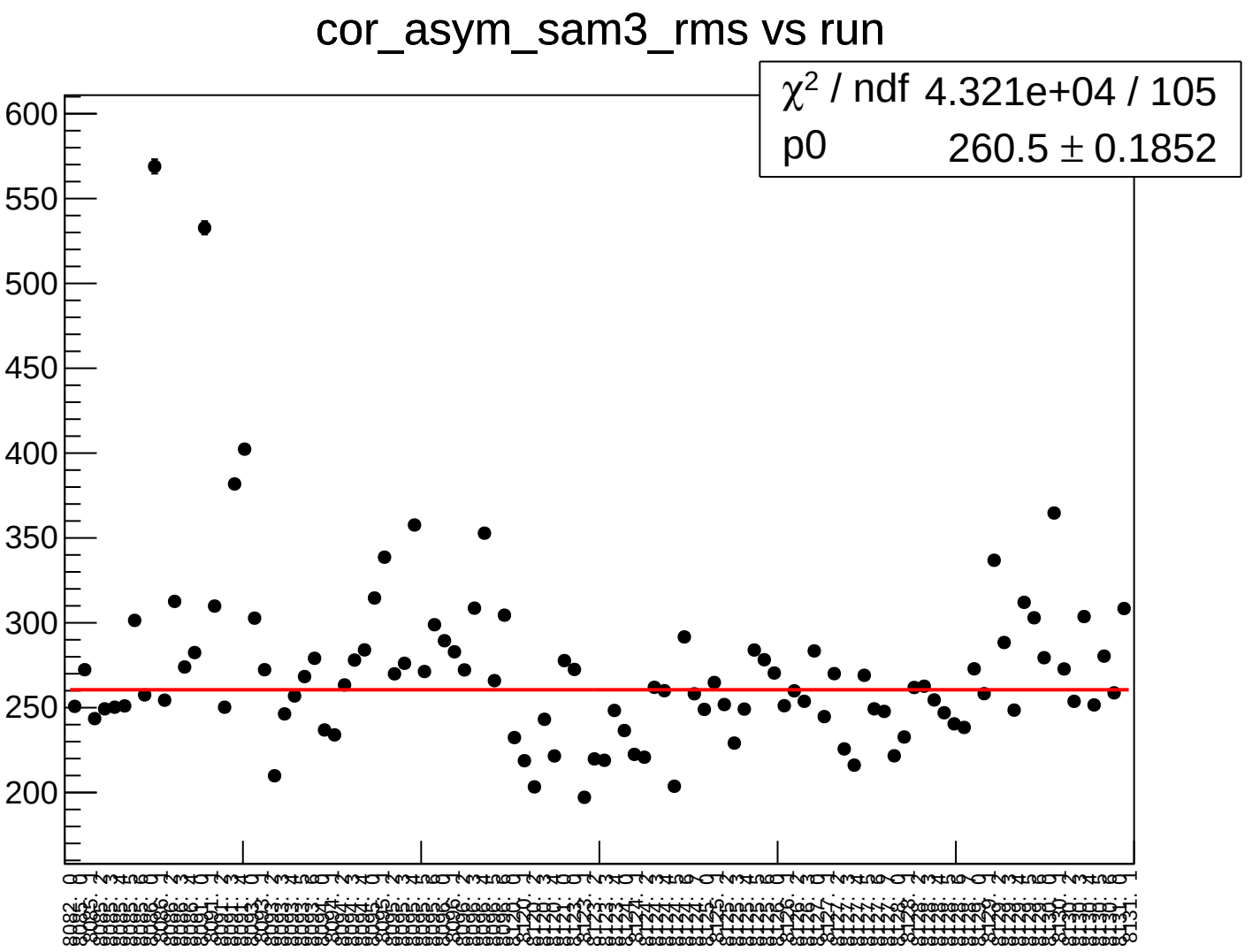

asym_sam3_reg_correction_mean vs run
×10^3
χ² / ndf 70.55 / 105
p0 −3785 ± 2727
100
50
0
−50
−100
pull
Entries 106
Mean 60.01
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

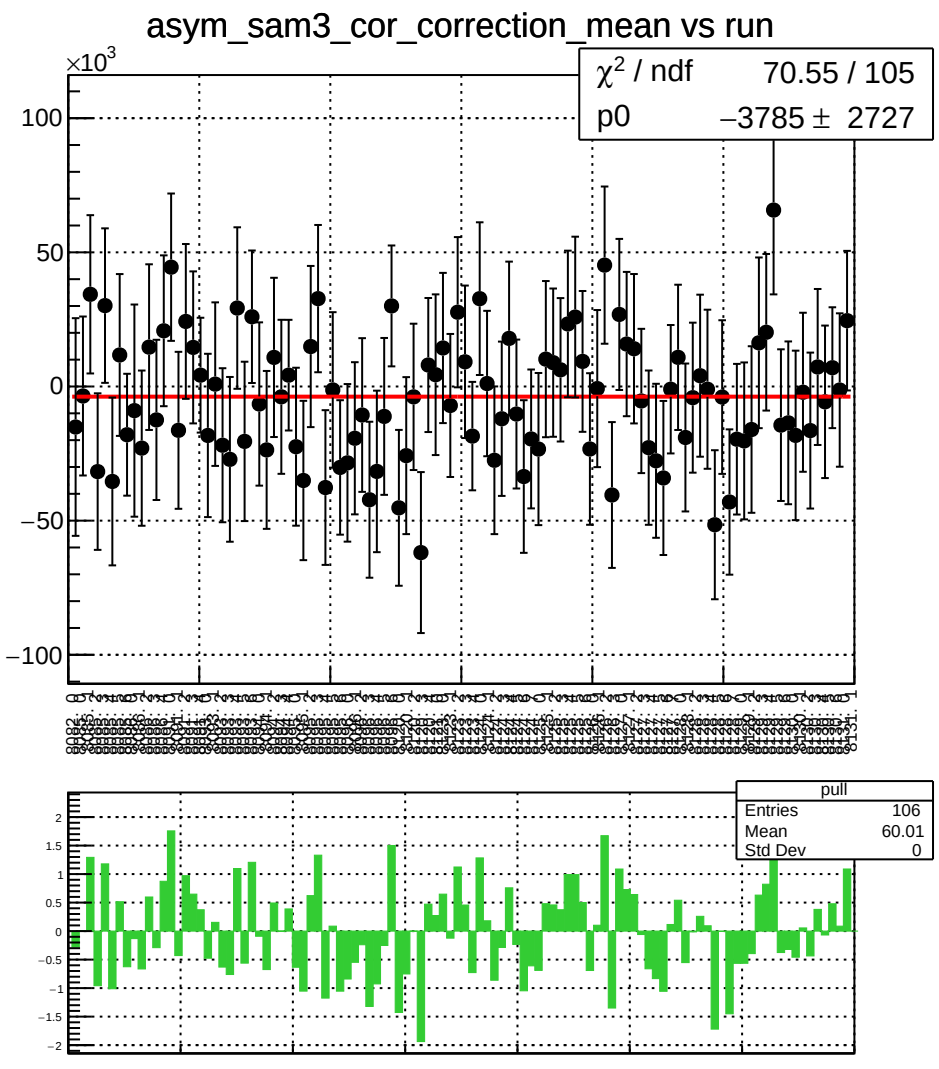

pull1D
Entries 106
Mean −0.007562
Std Dev 0.8158
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

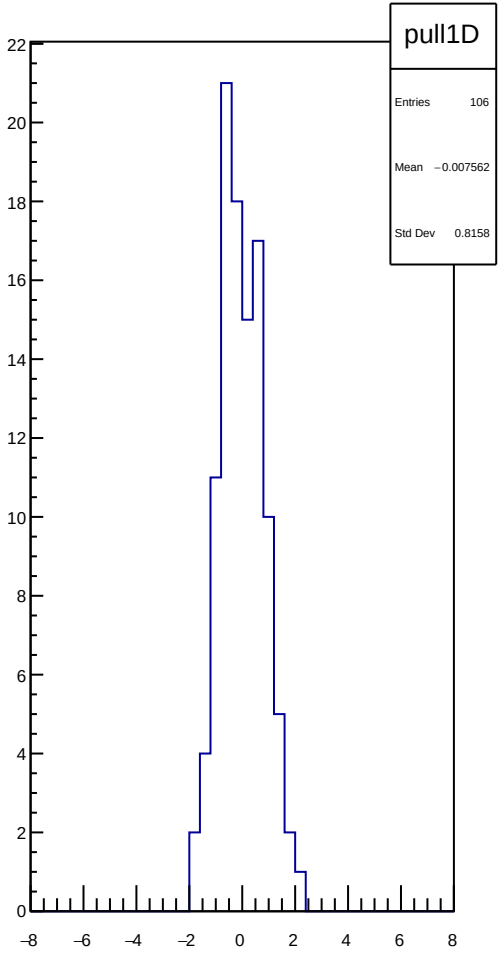

asym_sam3_reg_correction_rms vs run
χ² / ndf 4412 / 105
p0 2740 ± 1.928
3800
3600
3400
3200
3000
2800
2600
2400

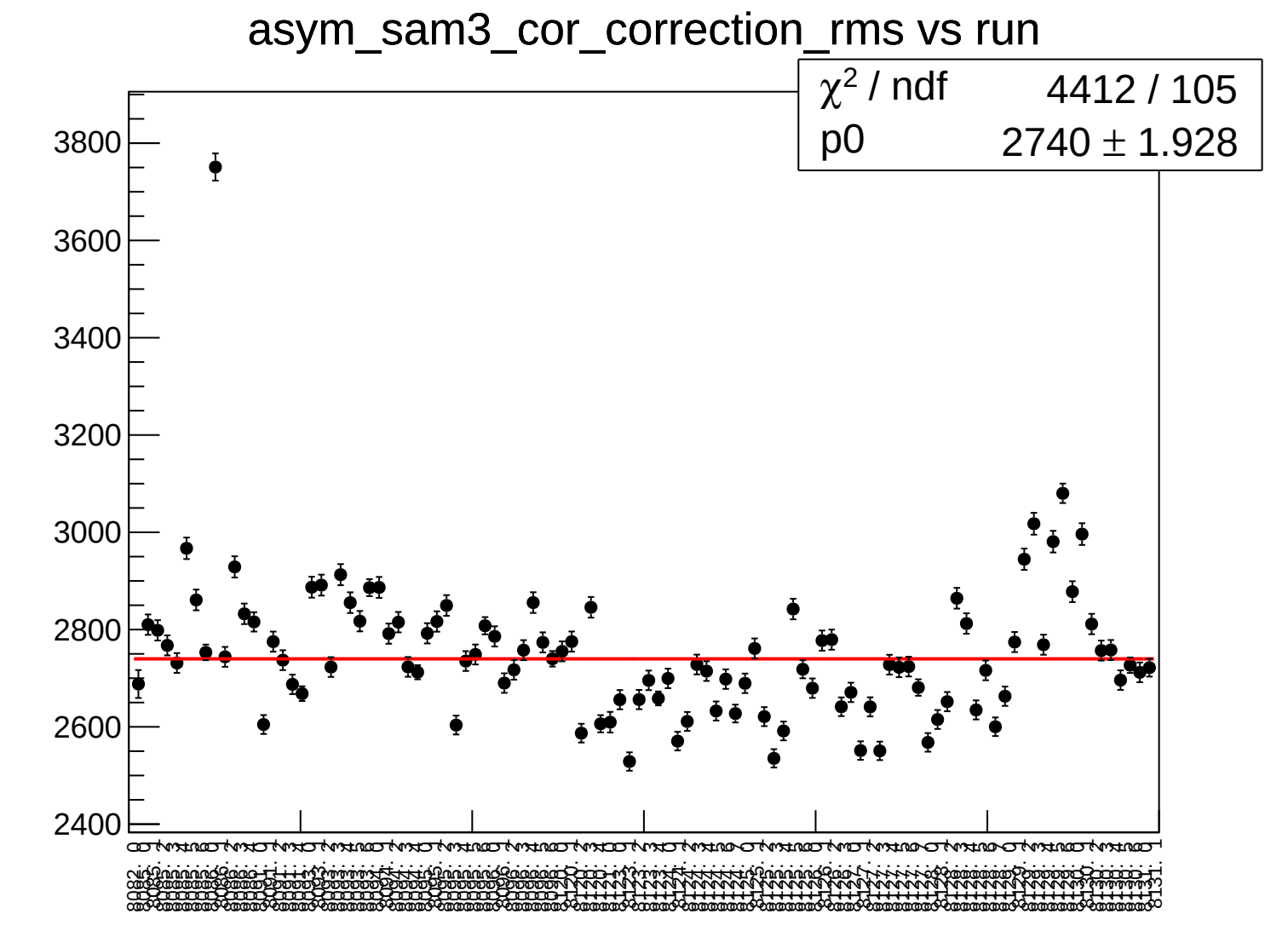

cor_asym_sam3_mean vs run
χ² / ndf 98.05 / 105
p0 −416 ± 261.9
10000
5000
0
−5000
−10000
−15000
pull
Entries 106
Mean −328.2
Std Dev 0
2
1
0
−1
−2

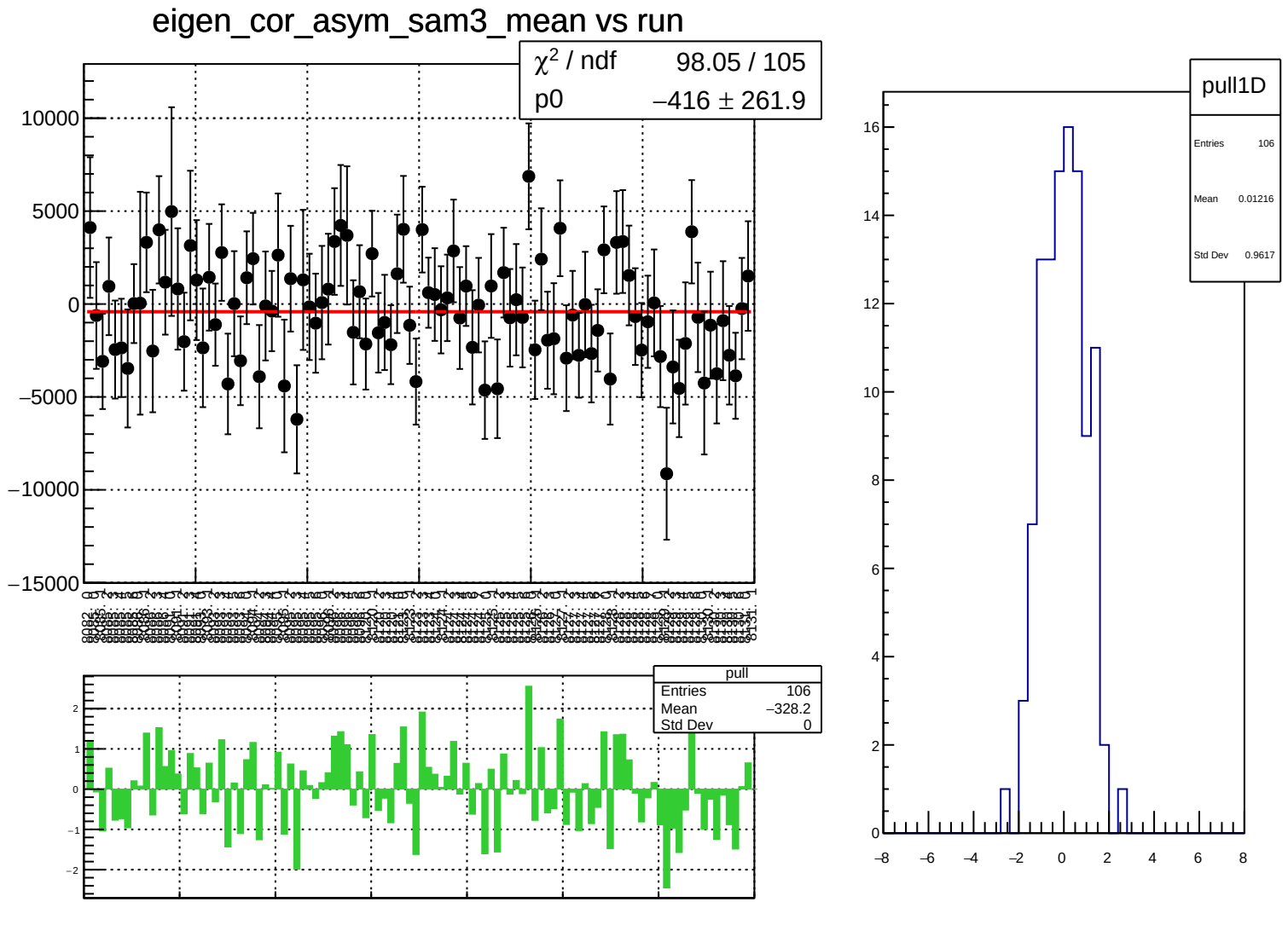

pull1D
Entries 106
Mean 0.01216
Std Dev 0.9617
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

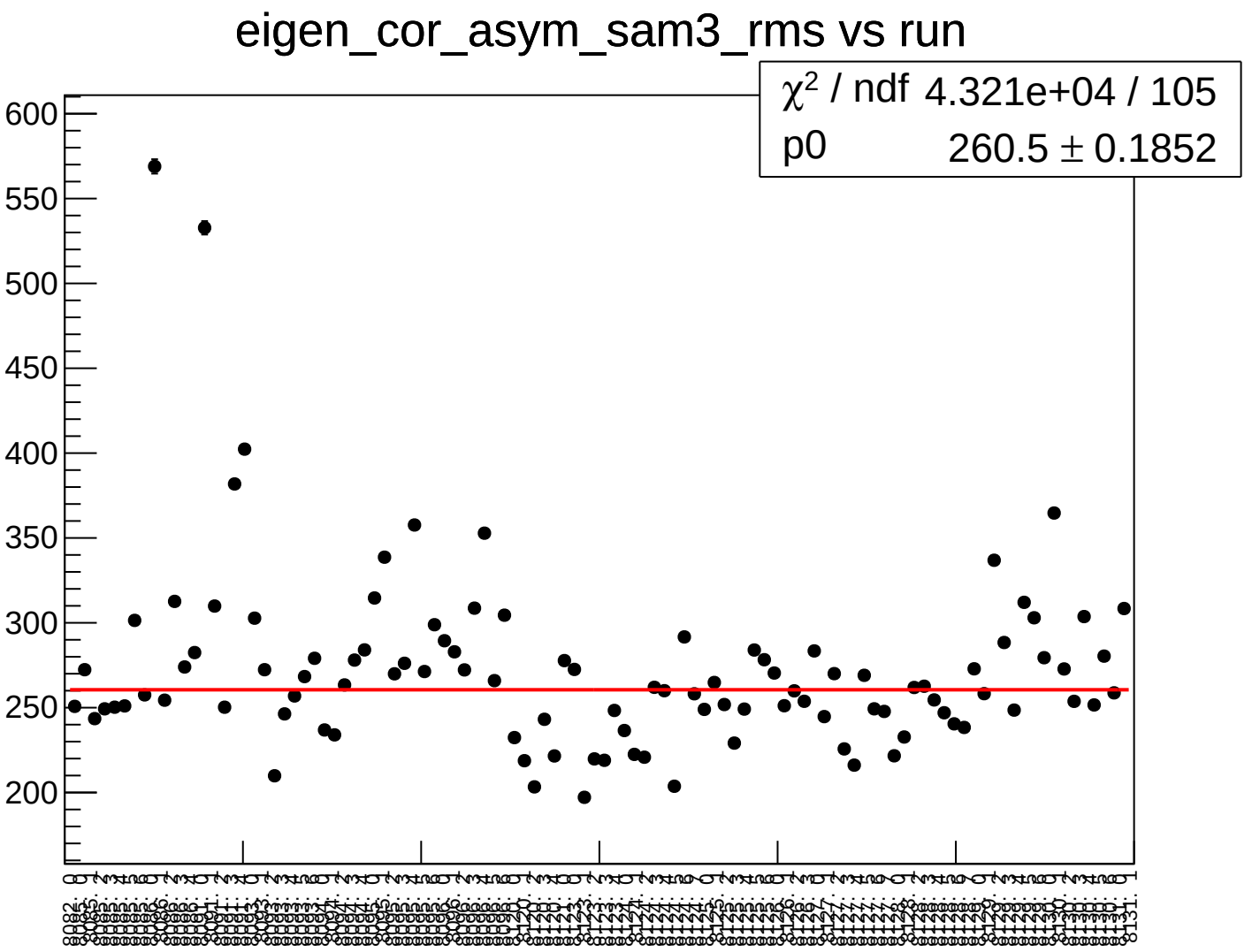

cor_asym_sam3_rms vs run
$\chi^2$ / ndf 4.321e+04 / 105
p0 260.5 ± 0.1852
600
550
500
450
400
350
300
250
200

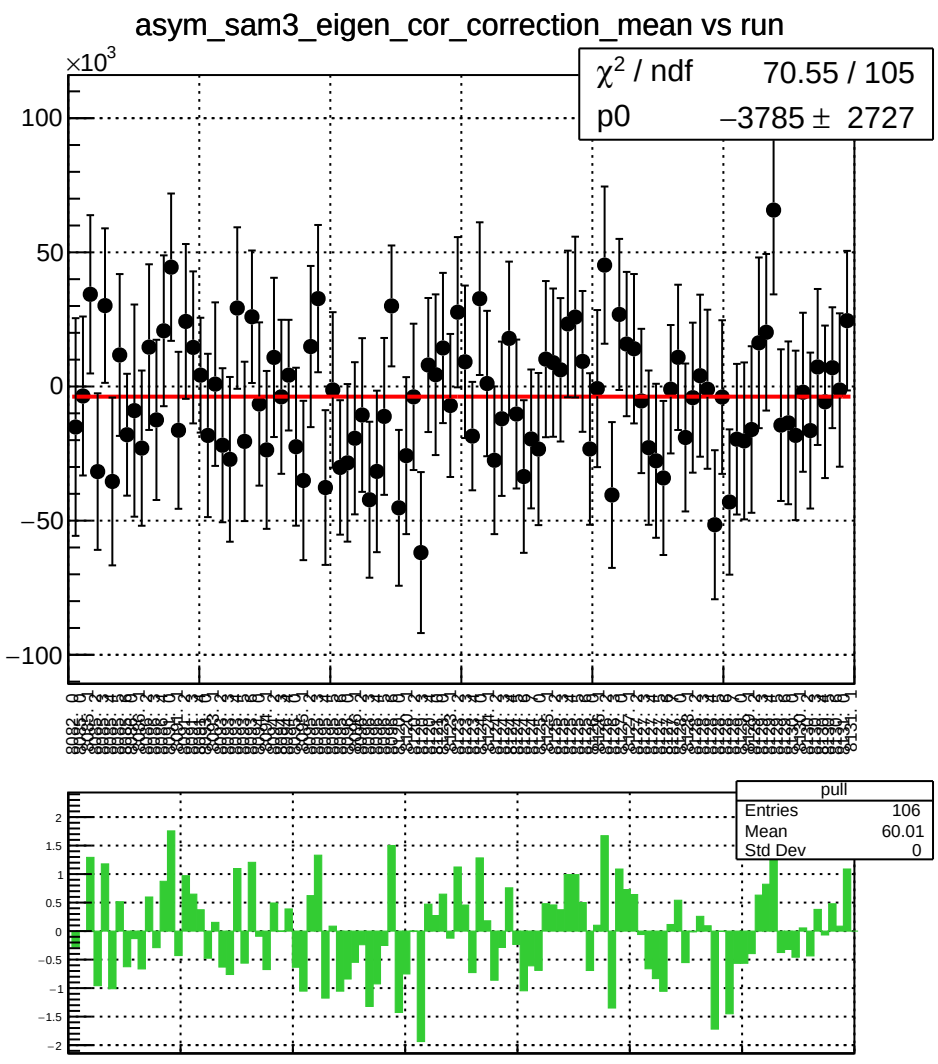

asym_sam3_cor_correction_mean vs run
×10^3
χ² / ndf 70.55 / 105
p0 −3785 ± 2727
100
50
0
−50
−100
pull
Entries 106
Mean 60.01
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

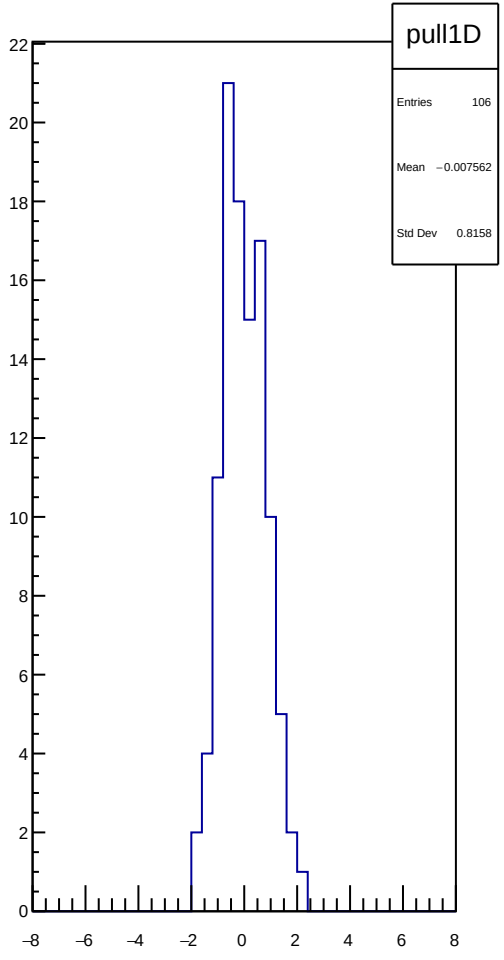

pull1D
Entries 106
Mean −0.007562
Std Dev 0.8158
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

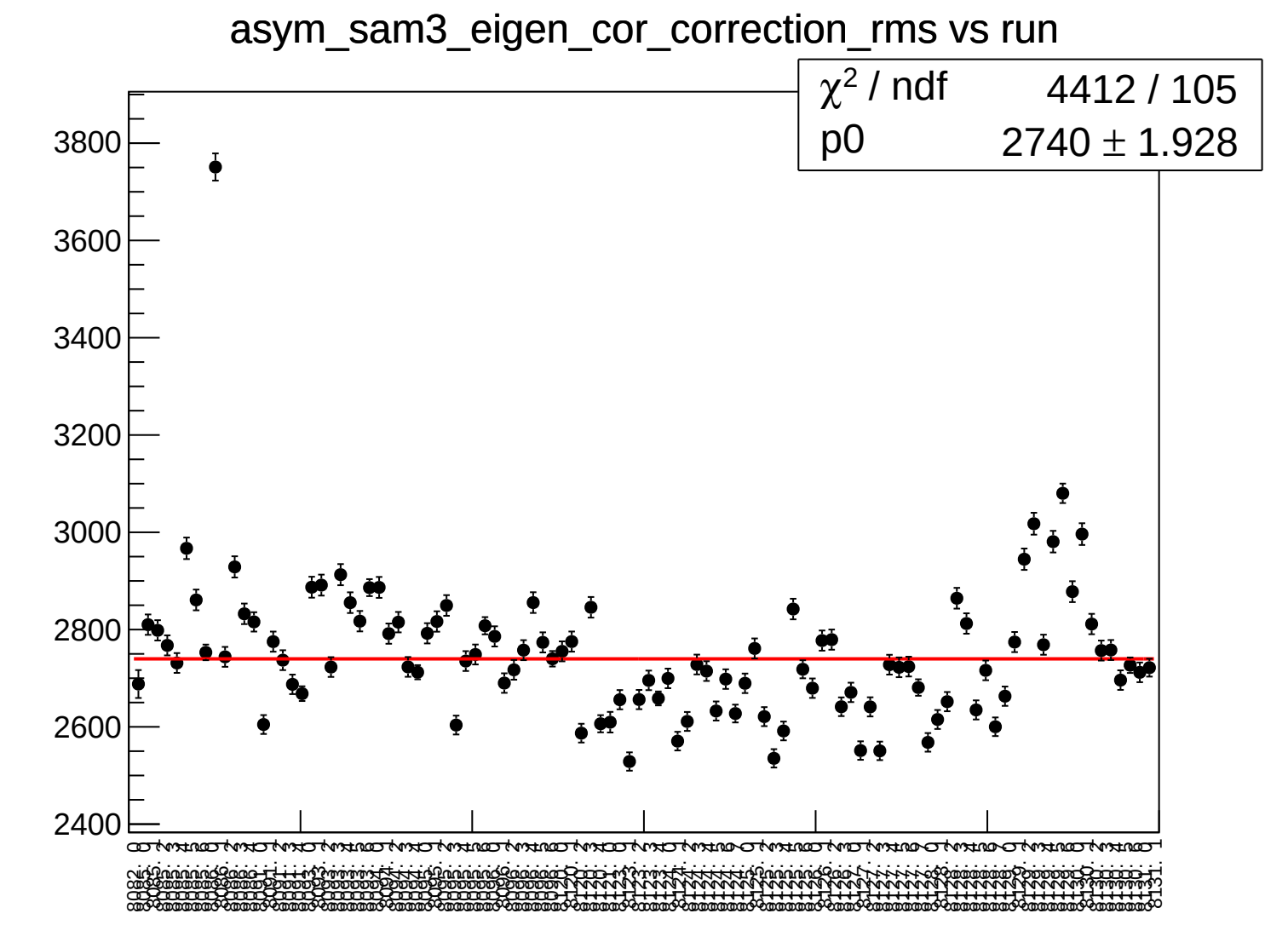

asym_sam3_cor_correction_rms vs run
χ² / ndf 4412 / 105
p0 2740 ± 1.928
3800
3600
3400
3200
3000
2800
2600
2400

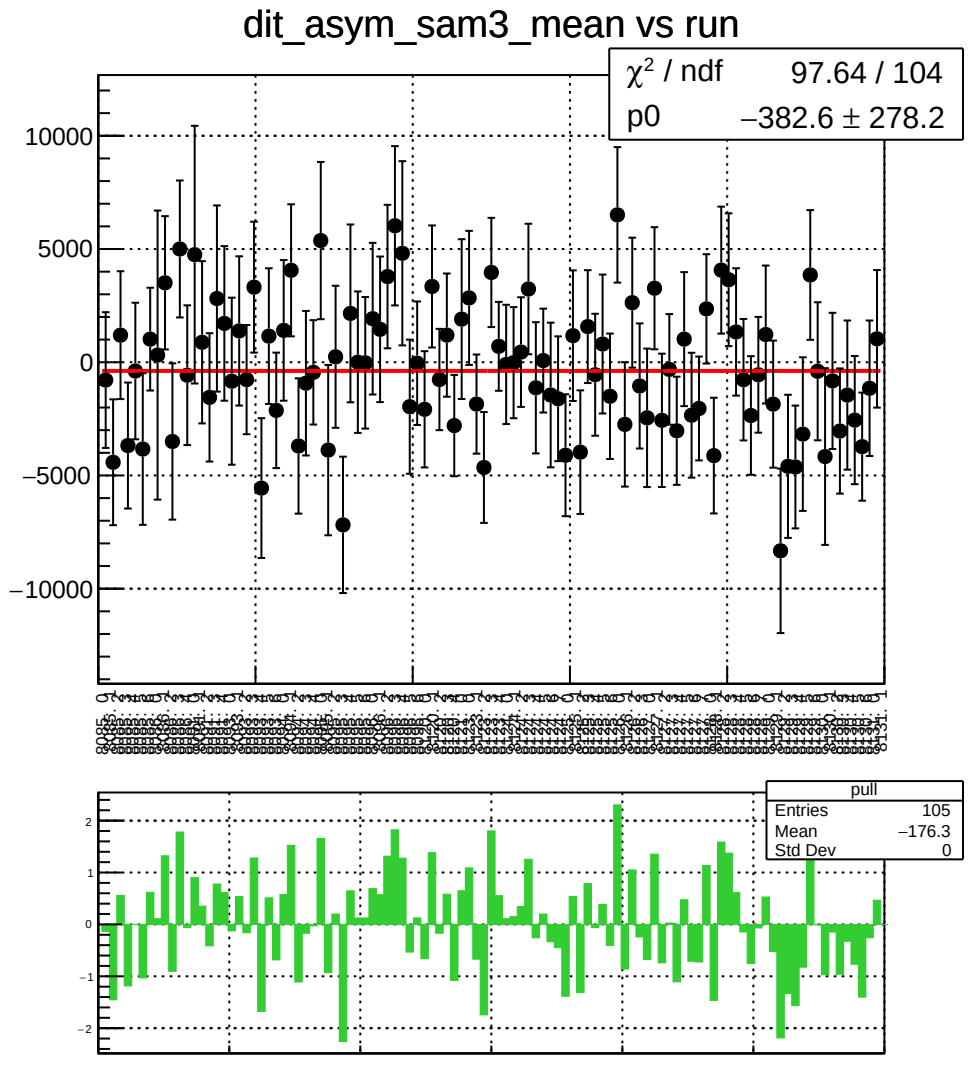

eigen_cor_asym_sam3_mean vs run
χ² / ndf 98.05 / 105
p0 −416 ± 261.9
10000
5000
0
−5000
−10000
−15000
pull
Entries 106
Mean −328.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 106
Mean 0.01216
Std Dev 0.9617
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

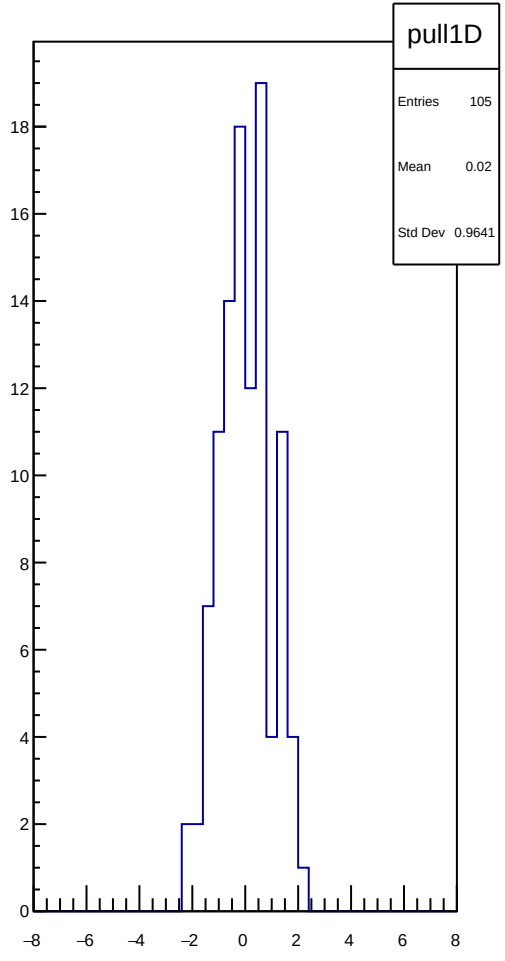

eigen_cor_asym_sam3_rms vs run
$\chi^2$ / ndf 4.321e+04 / 105
p0 260.5 ± 0.1852
600
550
500
450
400
350
300
250
200

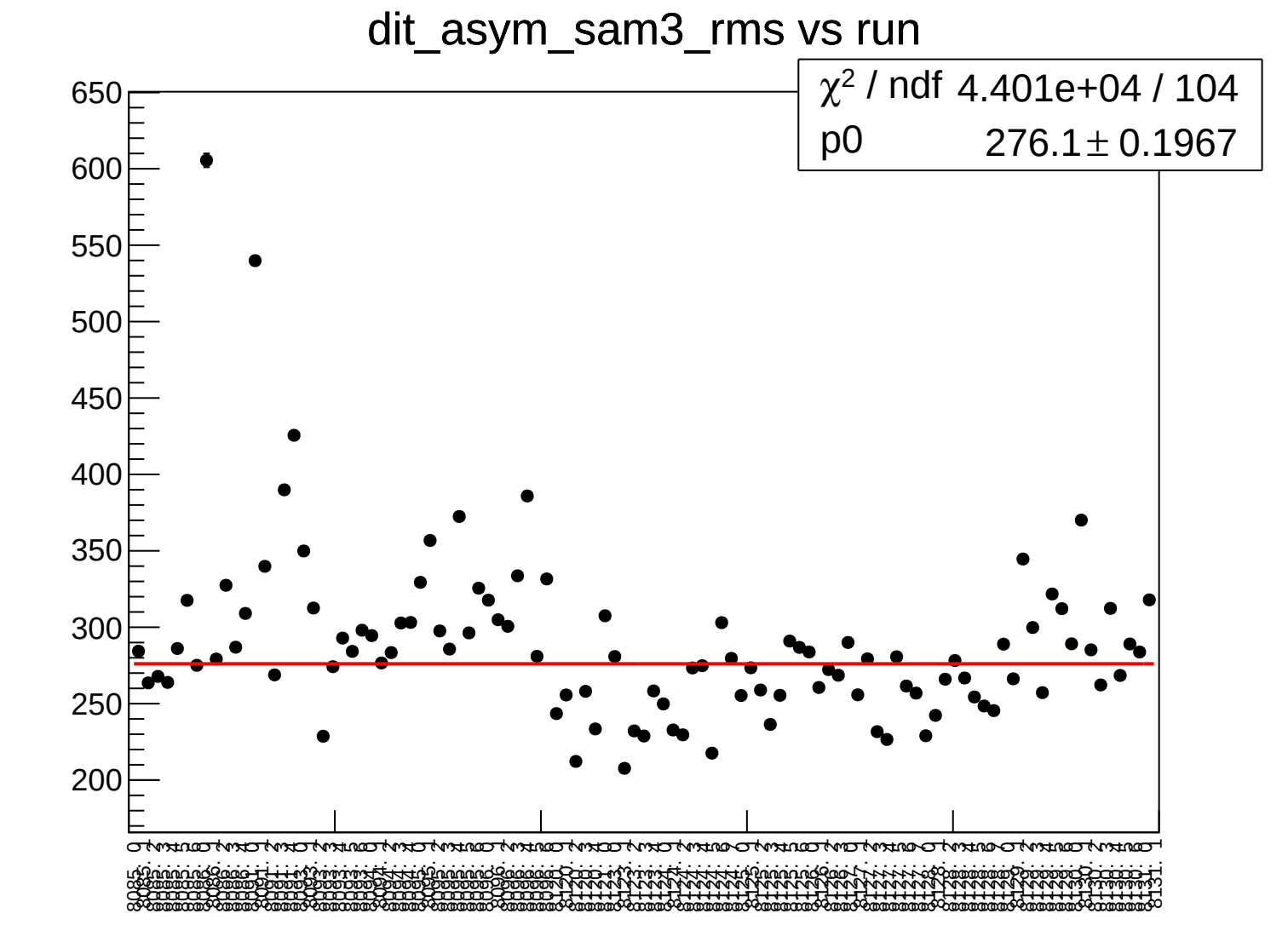

asym_sam3_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 70.55 / 105
p0 −3785 ± 2727
100
50
0
−50
−100
pull
Entries 106
Mean 60.01
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

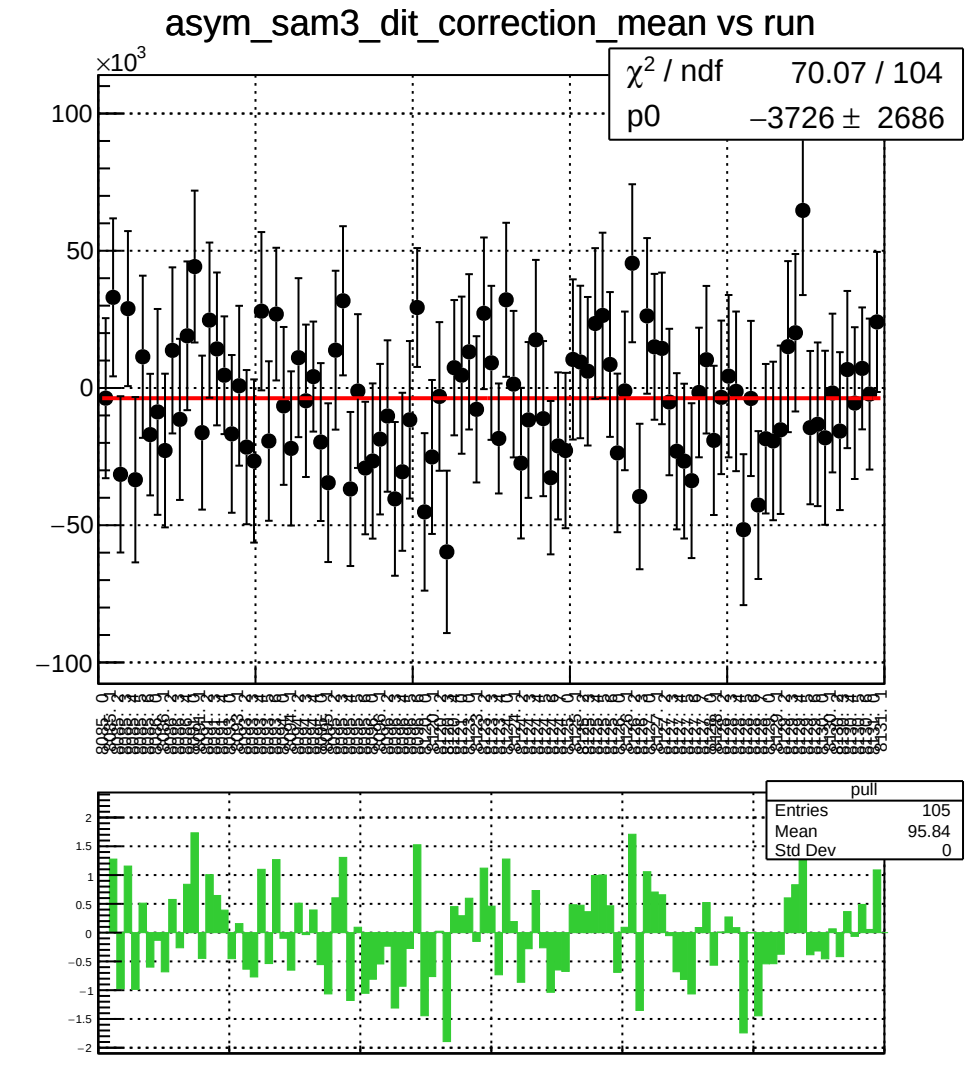

pull1D
Entries 106
Mean −0.007562
Std Dev 0.8158
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

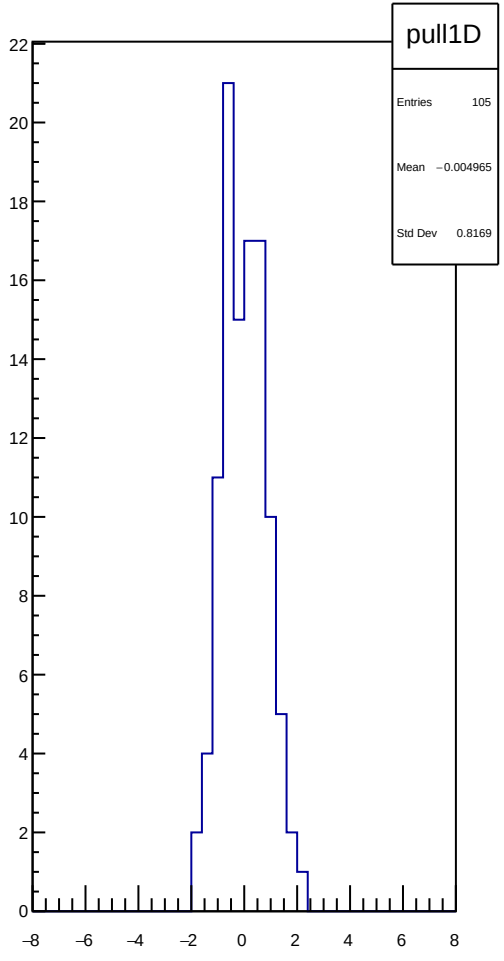

asym_sam3_eigen_cor_correction_rms vs run
χ² / ndf 4412 / 105
p0 2740 ± 1.928
3800
3600
3400
3200
3000
2800
2600
2400

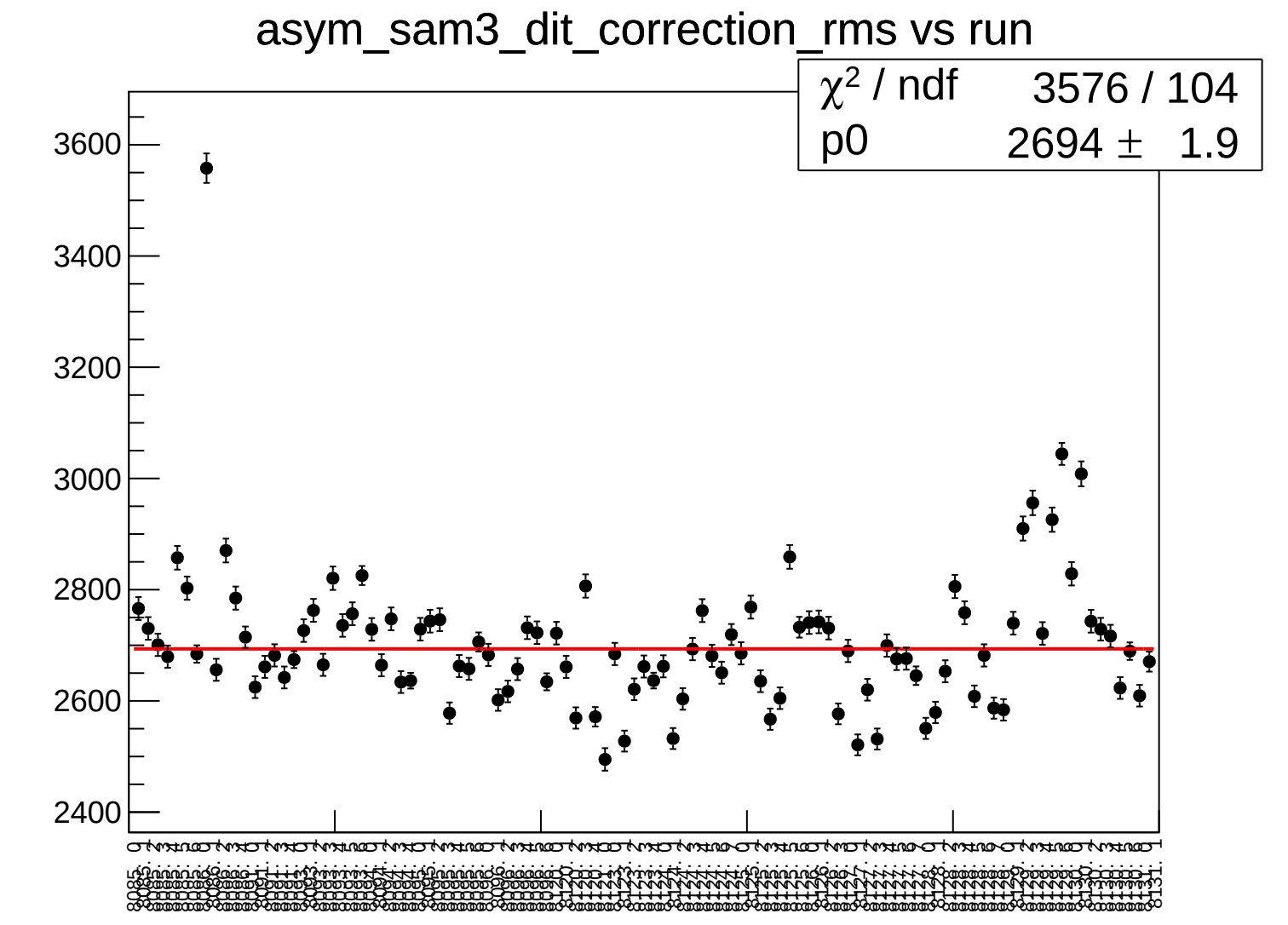

dit_asym_sam3_mean vs run
χ² / ndf 97.64 / 104
p0 −382.6 ± 278.2
10000
5000
0
−5000
−10000
pull
Entries 105
Mean −176.3
Std Dev 0
2
1
0
−1
−2

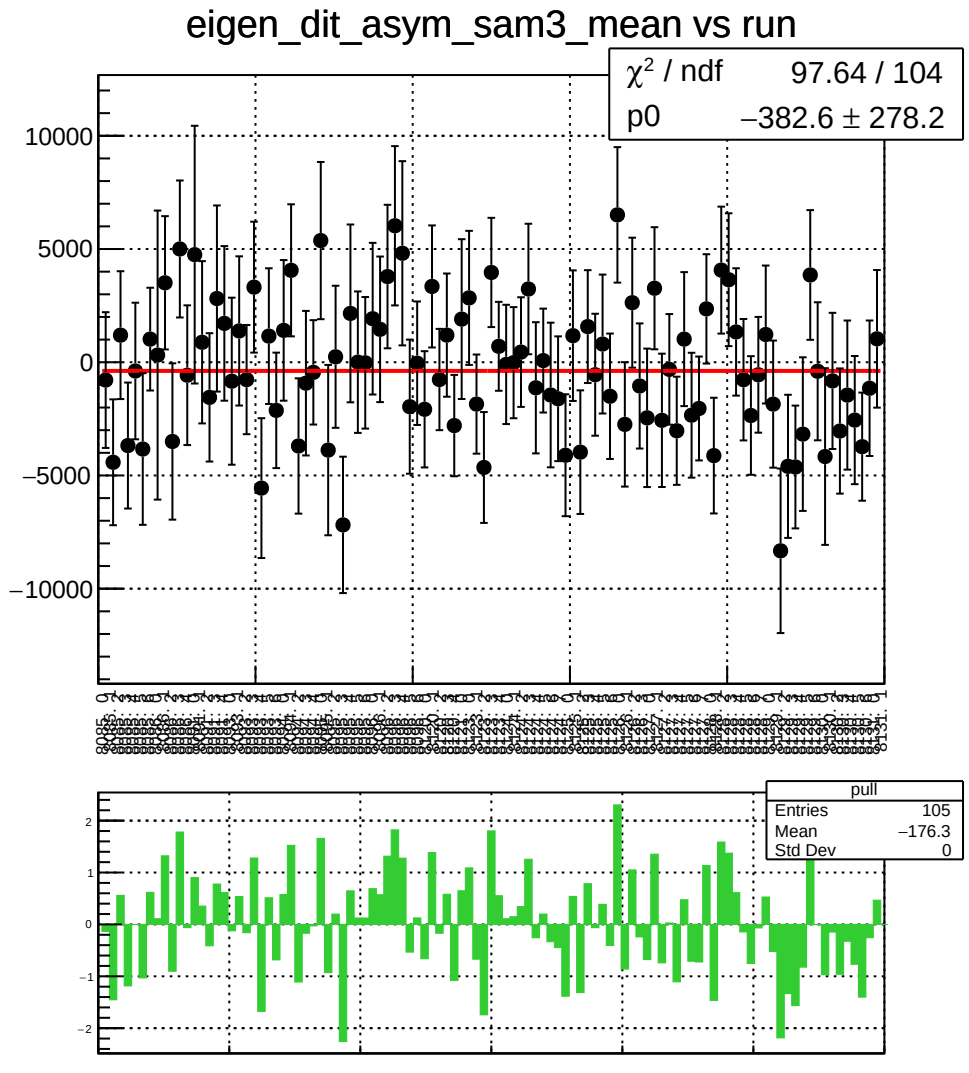

pull1D
Entries 105
Mean 0.02
Std Dev 0.9641
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

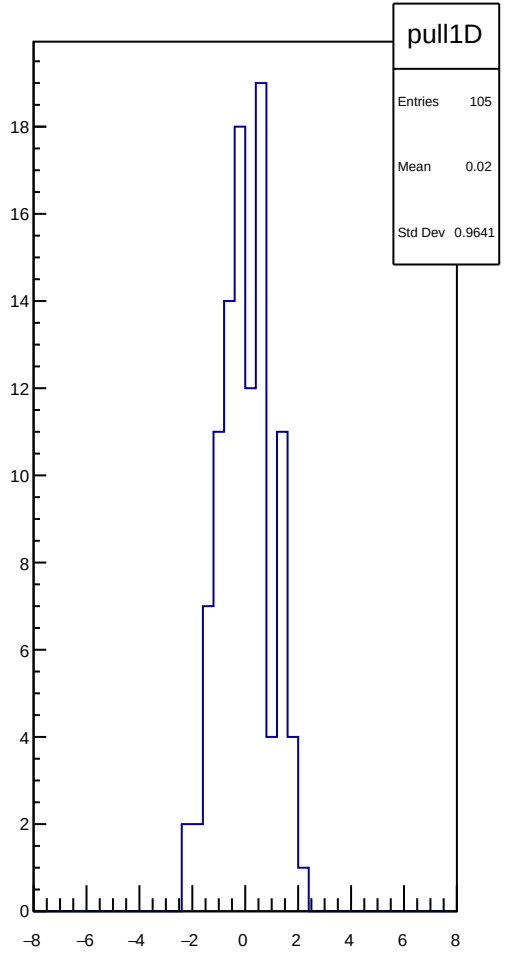

dit_asym_sam3_rms vs run
χ² / ndf 4.401e+04 / 104
p0 276.1 ± 0.1967
650
600
550
500
450
400
350
300
250
200

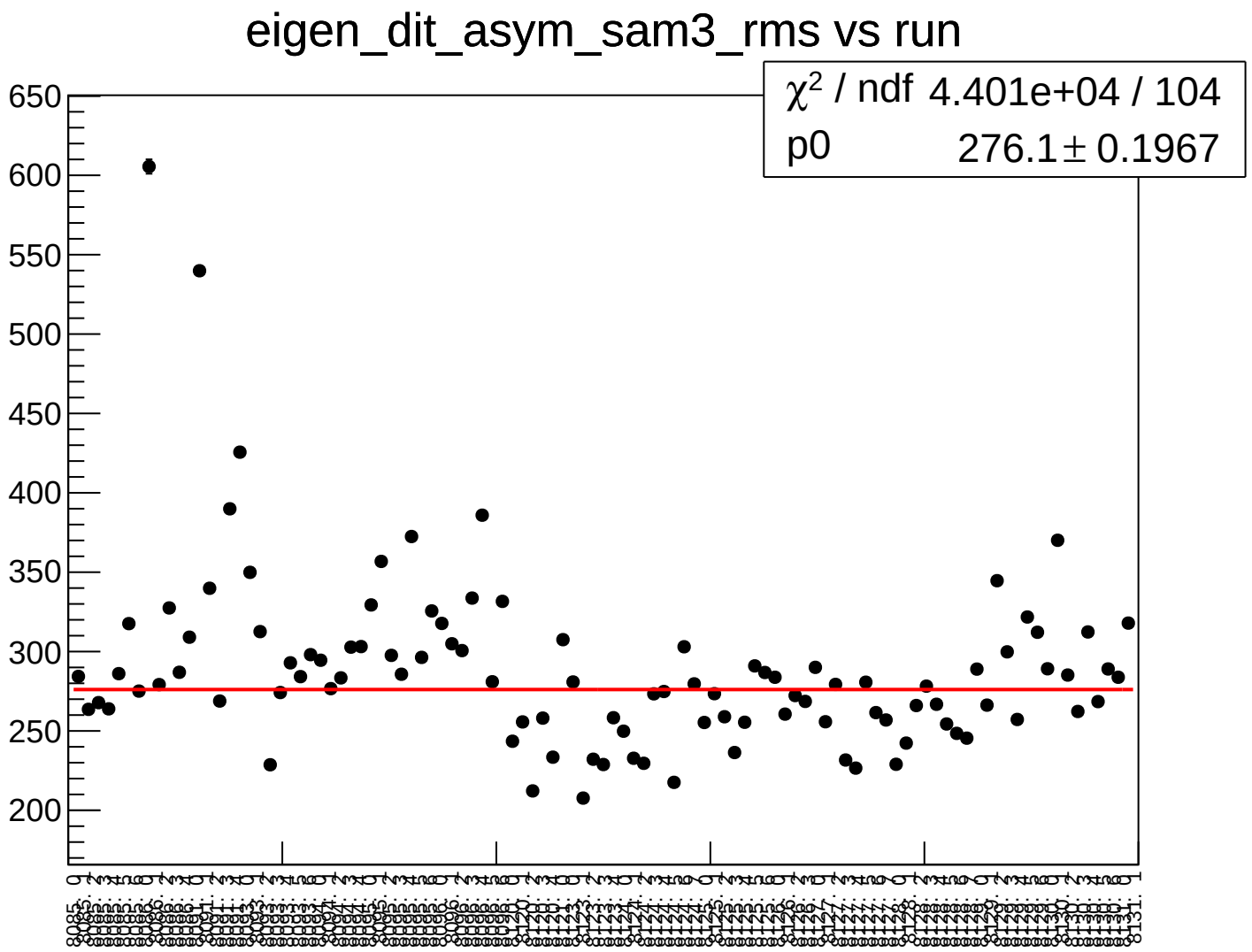

asym_sam3_dit_correction_mean vs run
×10^3
χ² / ndf 70.07 / 104
p0 −3726 ± 2686
100
50
0
−50
−100
pull
Entries 105
Mean 95.84
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

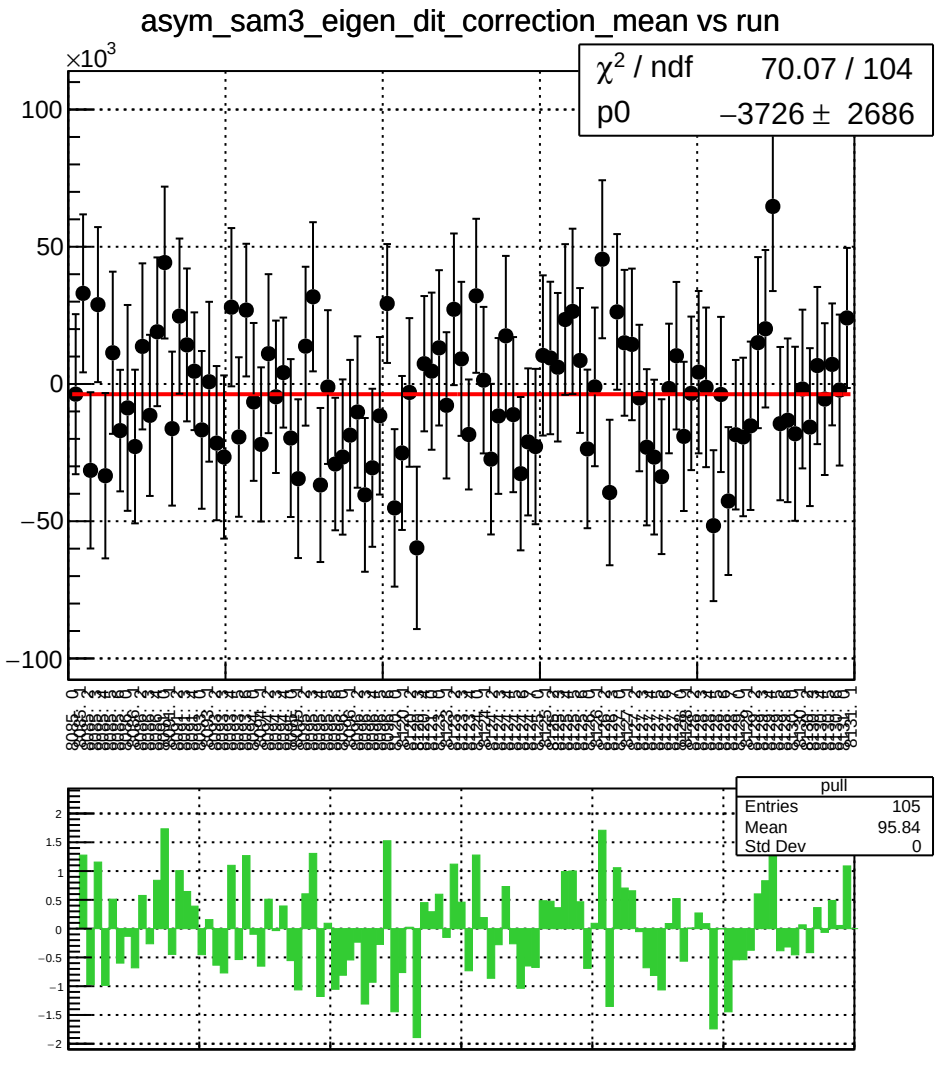

pull1D
Entries 105
Mean −0.004965
Std Dev 0.8169
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

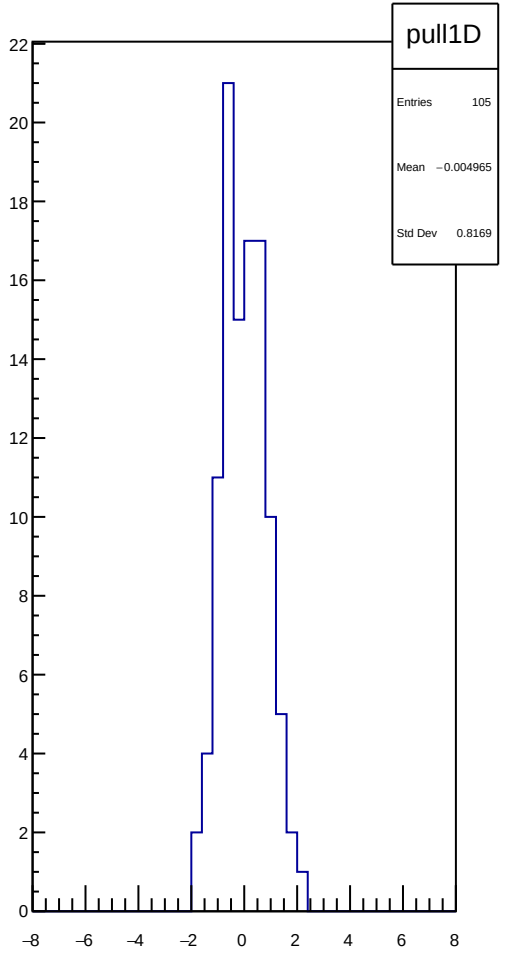

asym_sam3_dit_correction_rms vs run
χ² / ndf 3576 / 104
p0 2694 ± 1.9
3600
3400
3200
3000
2800
2600
2400

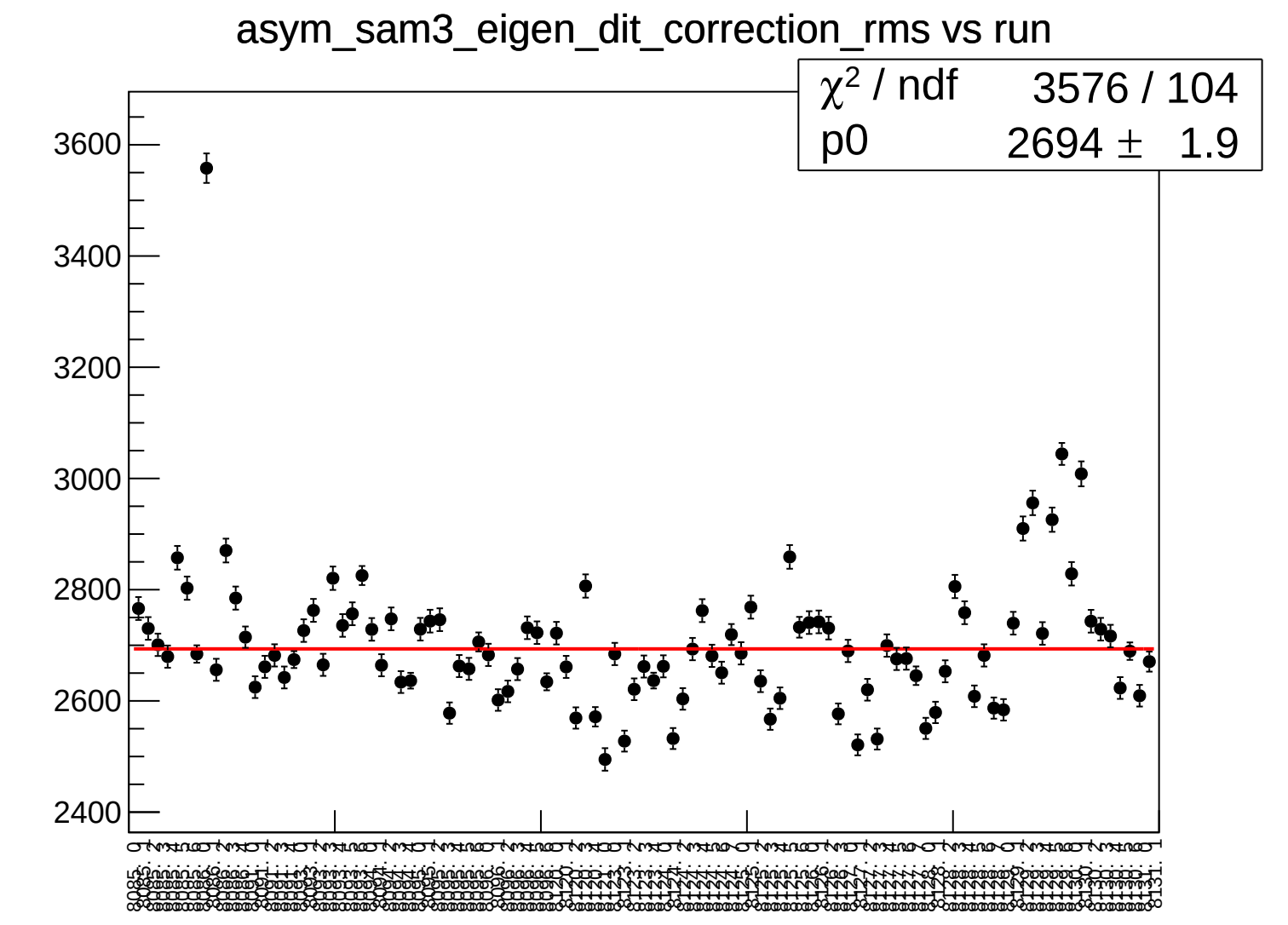

eigen_dit_asym_sam3_mean vs run
χ² / ndf 97.64 / 104
p0 −382.6 ± 278.2
10000
5000
0
−5000
−10000
pull
Entries 105
Mean −176.3
Std Dev 0
2
1
0
−1
−2

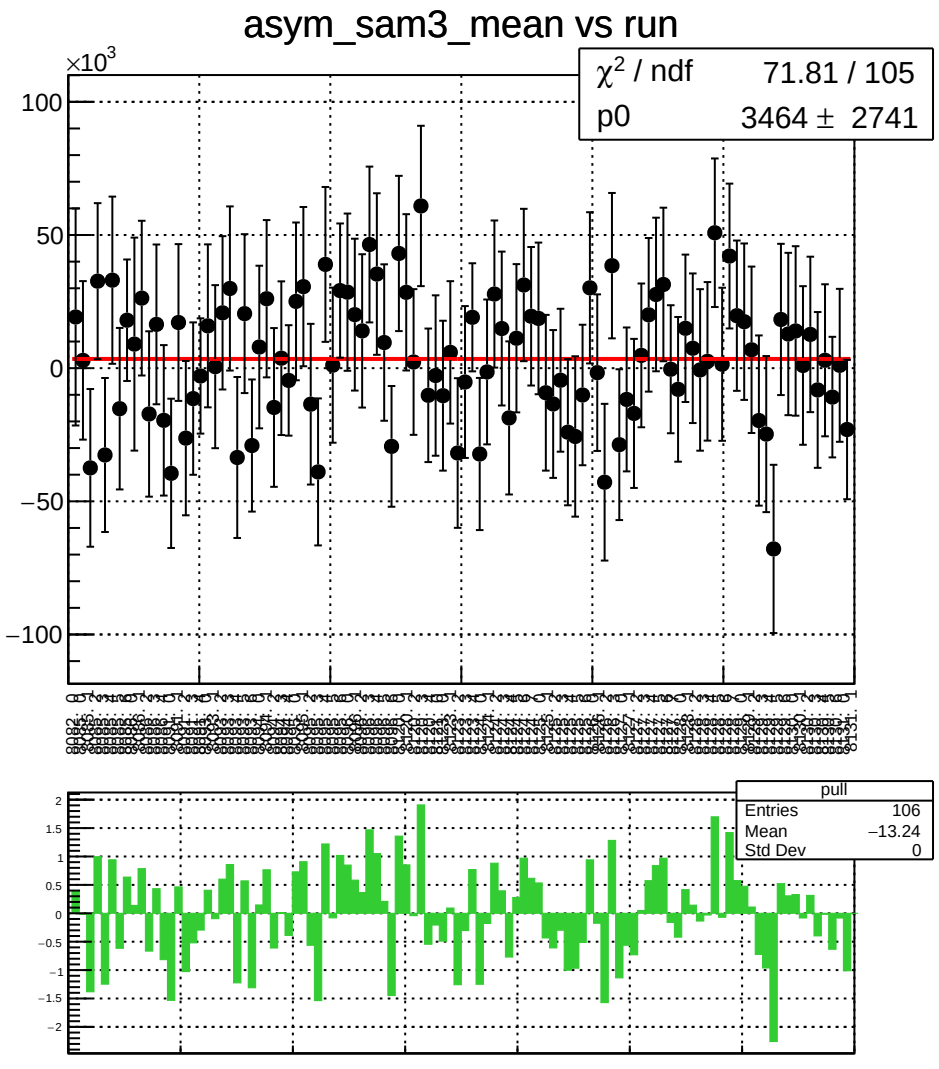

pull1D
Entries 105
Mean 0.02
Std Dev 0.9641
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

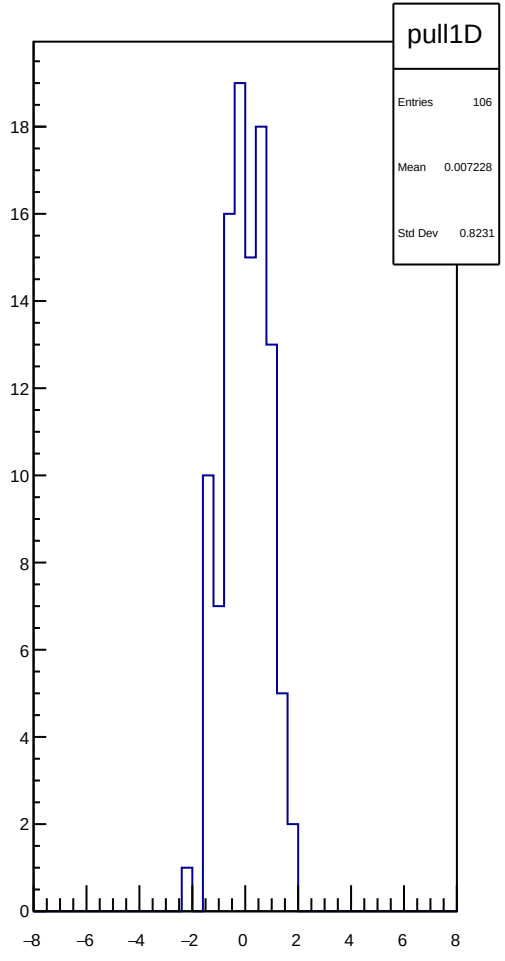

eigen_dit_asym_sam3_rms vs run
χ² / ndf 4.401e+04 / 104
p0 276.1 ± 0.1967
650
600
550
500
450
400
350
300
250
200

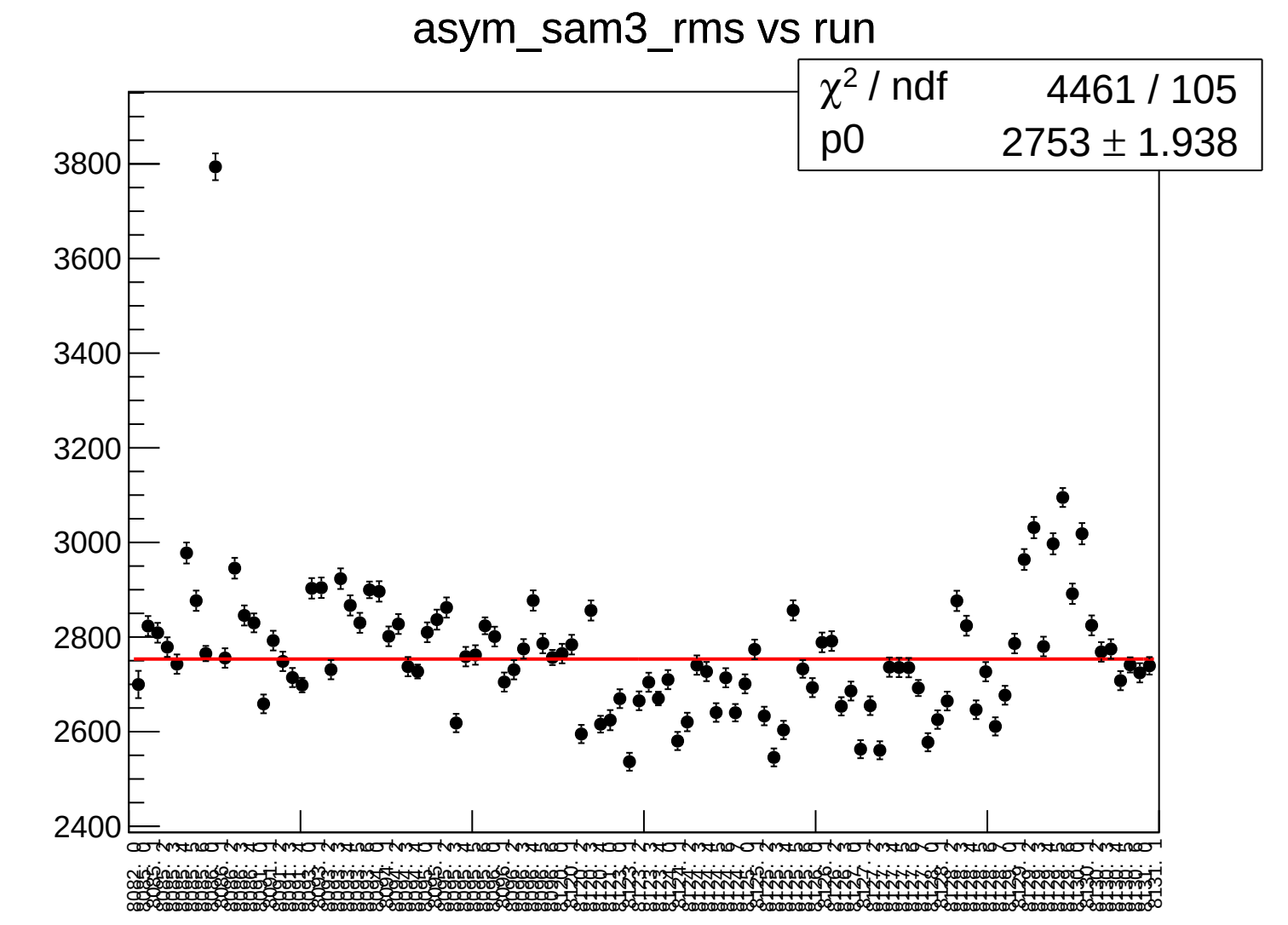

asym_sam3_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 70.07 / 104
p0 −3726 ± 2686
100
50
0
−50
−100
pull
Entries 105
Mean 95.84
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

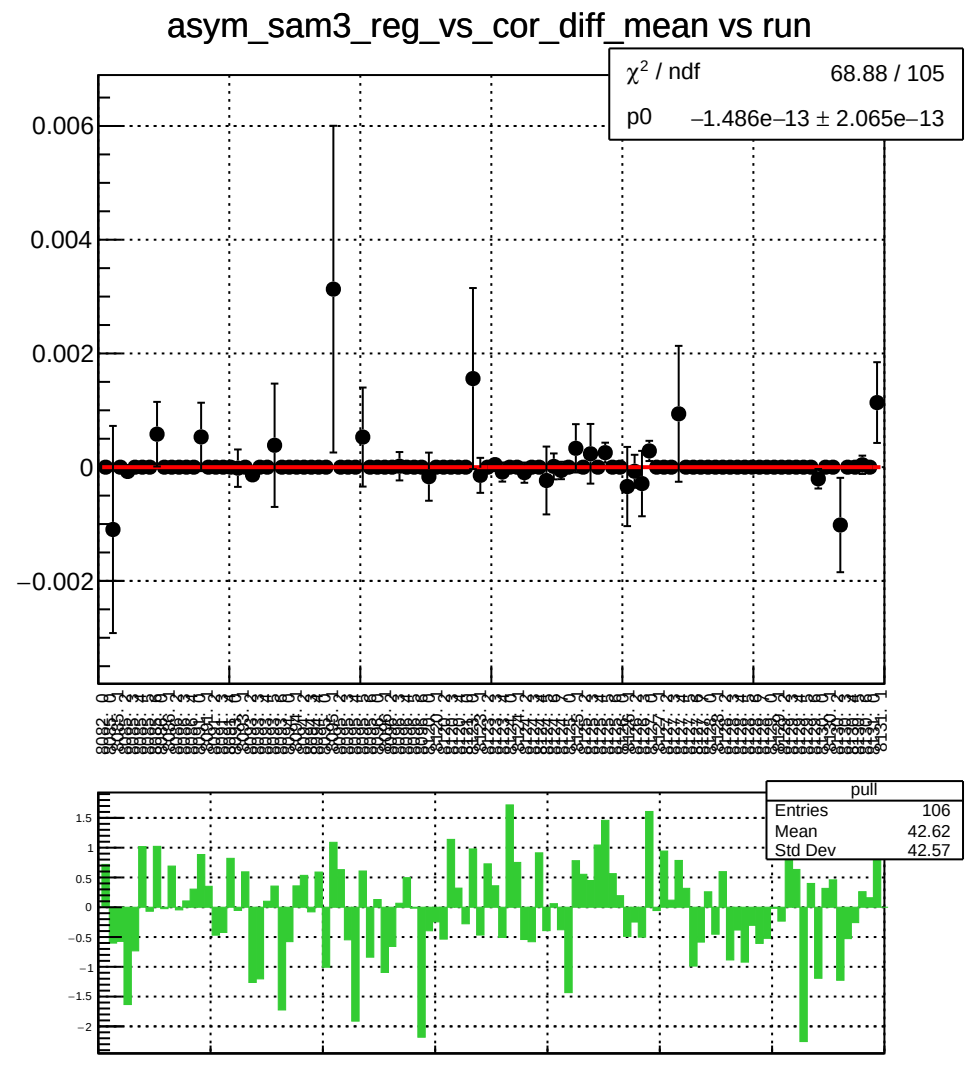

pull1D
Entries 105
Mean −0.004965
Std Dev 0.8169
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

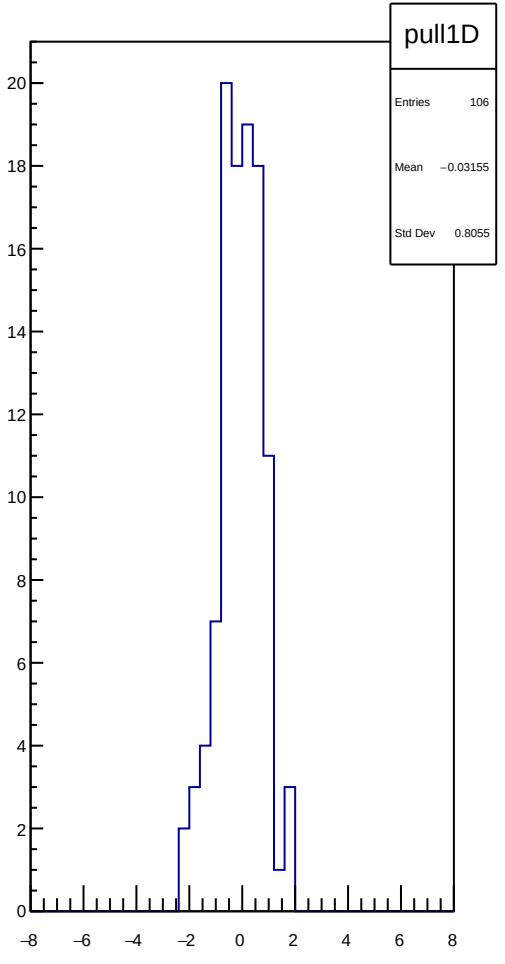

asym_sam3_eigen_dit_correction_rms vs run
χ² / ndf 3576 / 104
p0 2694 ± 1.9
3600
3400
3200
3000
2800
2600
2400

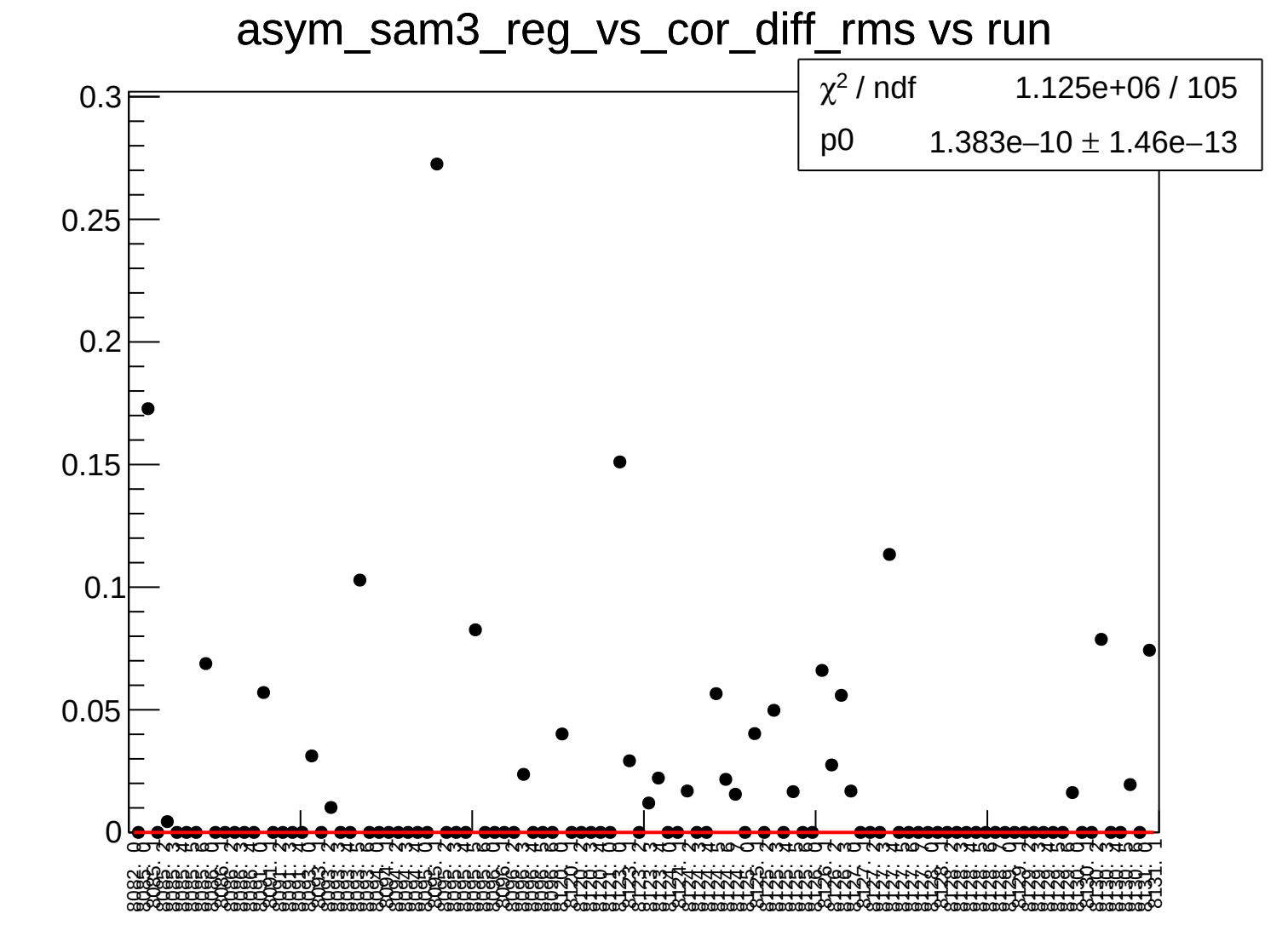

asym_sam3_mean vs run
×10^3
χ^2 / ndf 71.81 / 105
p0 3464 ± 2741
100
50
0
−50
−100
pull
Entries 106
Mean −13.24
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

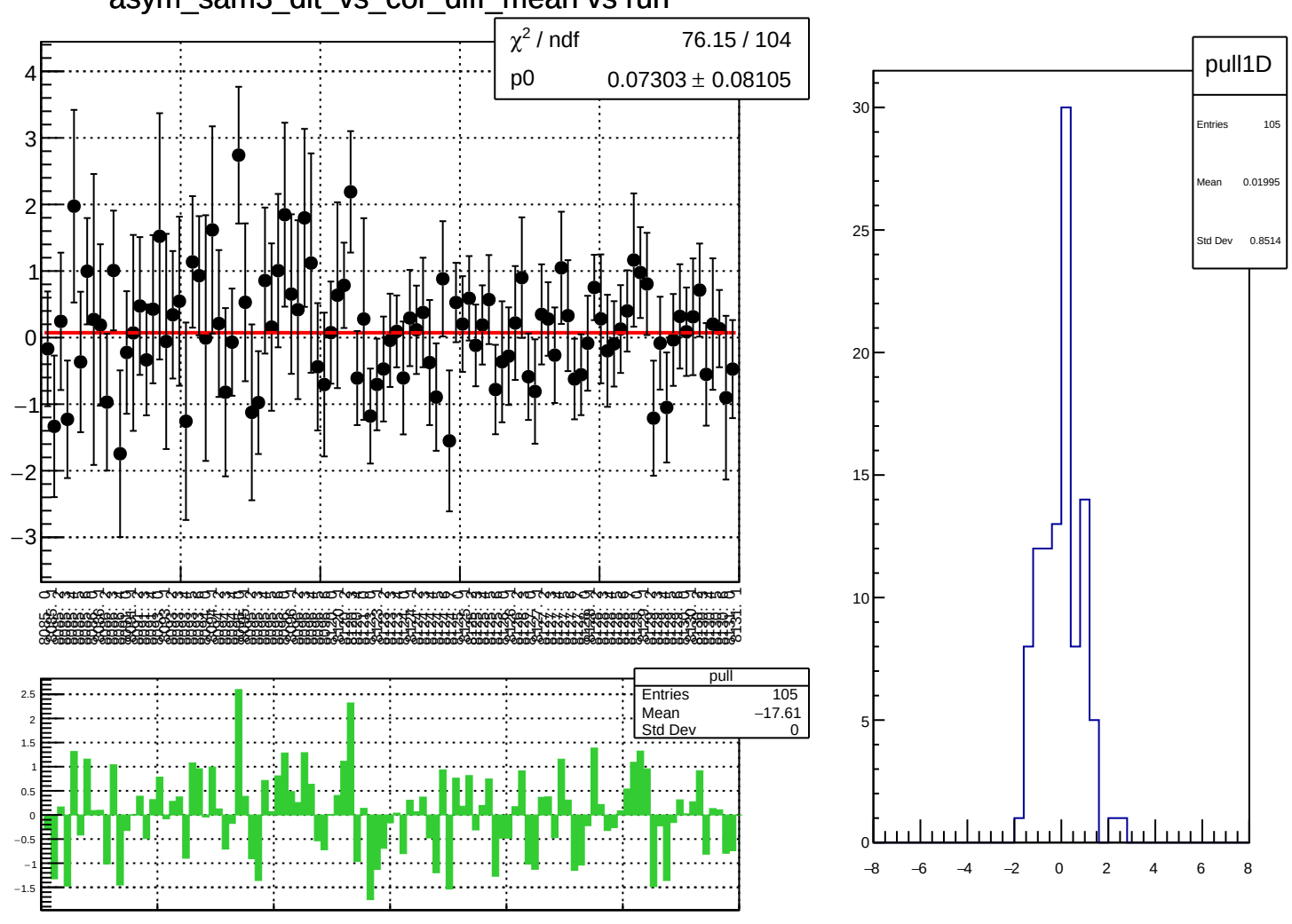

pull1D
Entries 106
Mean 0.007228
Std Dev 0.8231
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

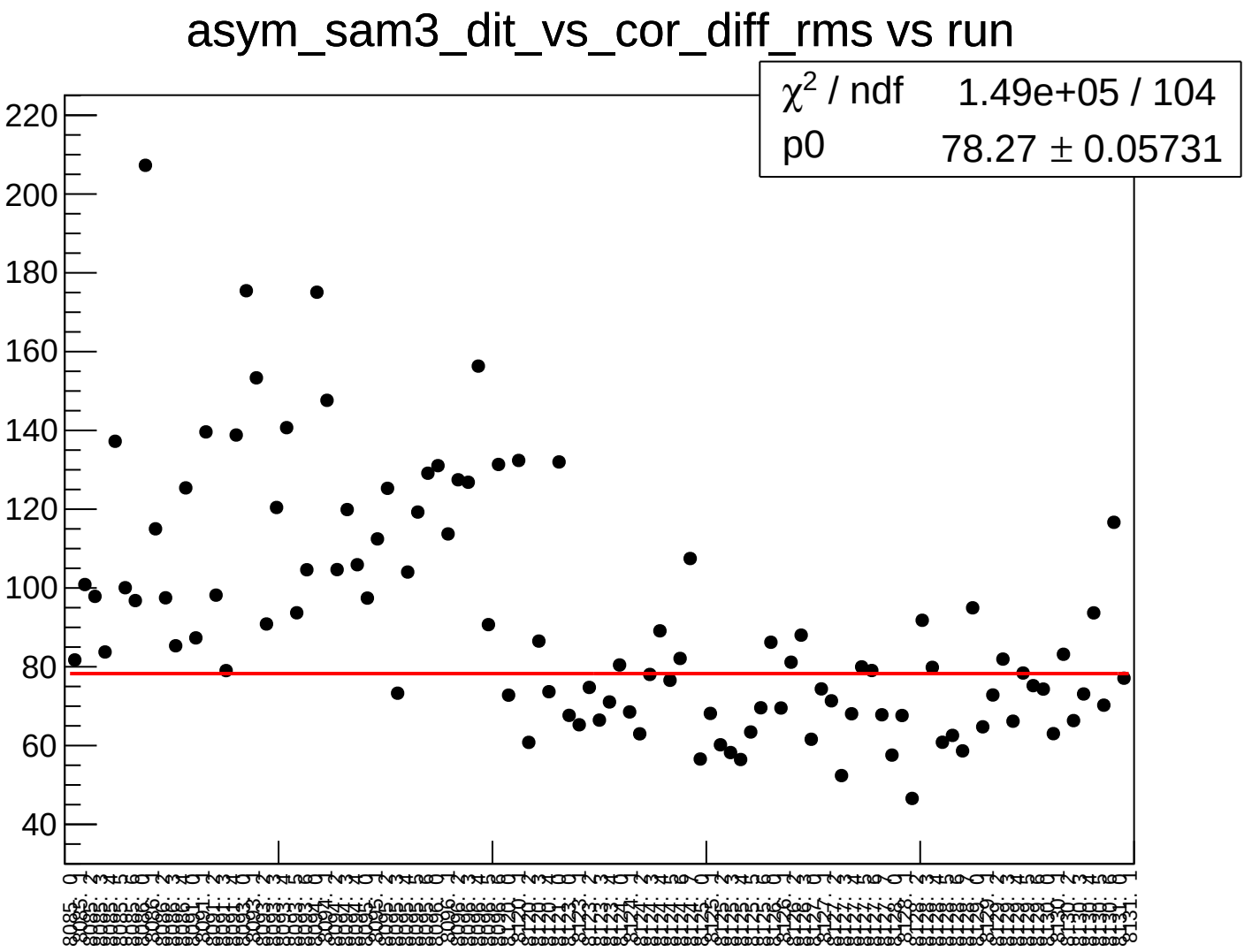

asym_sam3_rms vs run
$\chi^2$ / ndf 4461 / 105
p0 2753 ± 1.938
3800
3600
3400
3200
3000
2800
2600
2400

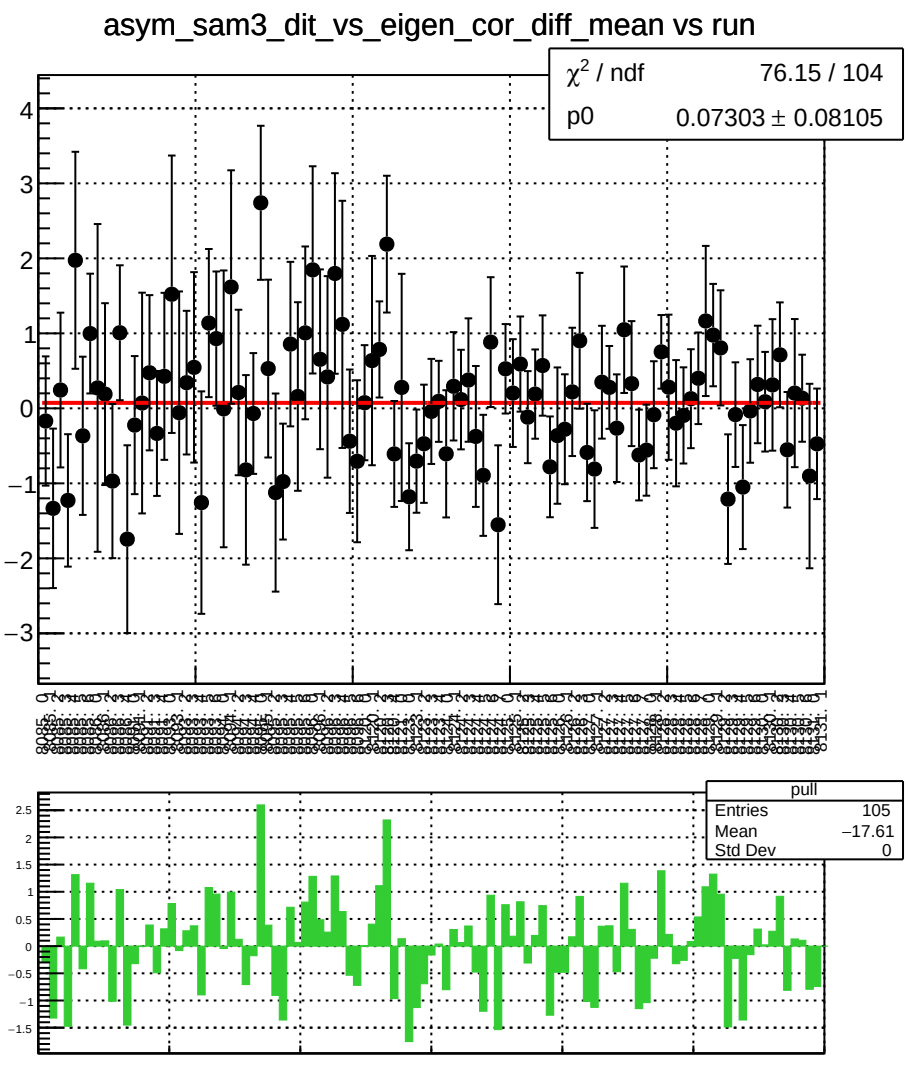

asym_sam3_reg_vs_cor_diff_mean vs run
χ² / ndf 68.88 / 105
p0 −1.486e−13 ± 2.065e−13
0.006
0.004
0.002
0
−0.002
pull
Entries 106
Mean 42.62
Std Dev 42.57
1.5
1
0.5
0
−0.5
−1
−1.5
−2

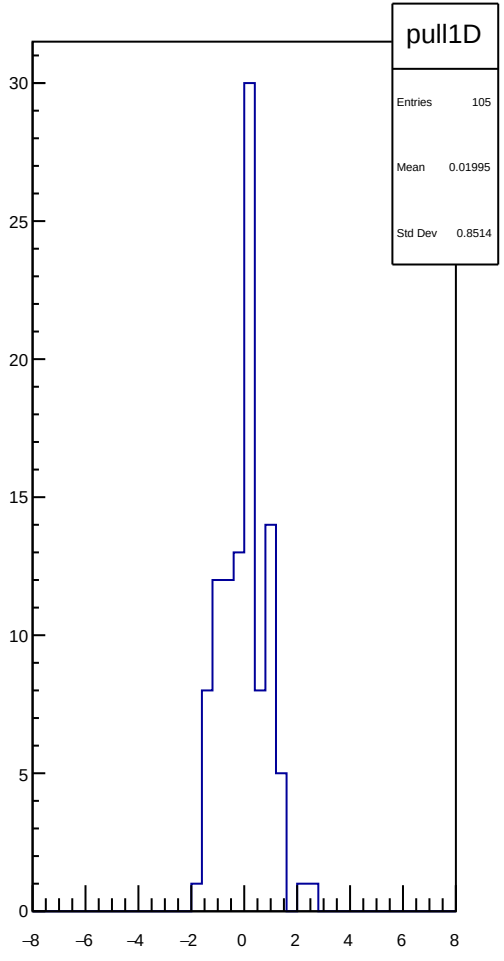

pull1D
Entries 106
Mean −0.03155
Std Dev 0.8055
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

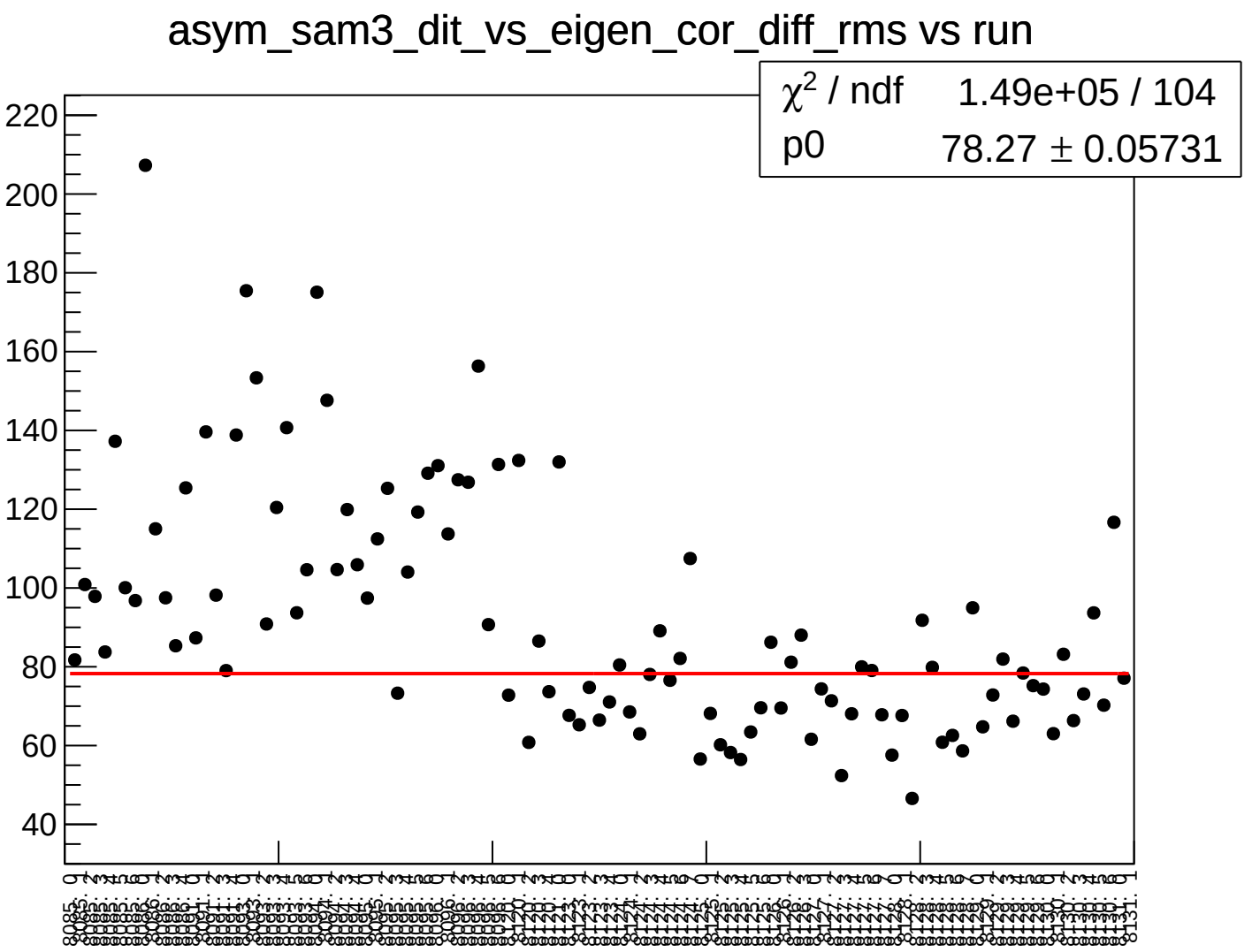

asym_sam3_reg_vs_cor_diff_rms vs run
χ² / ndf 1.125e+06 / 105
p0 1.383e−10 ± 1.46e−13
0.3
0.25
0.2
0.15
0.1
0.05
0

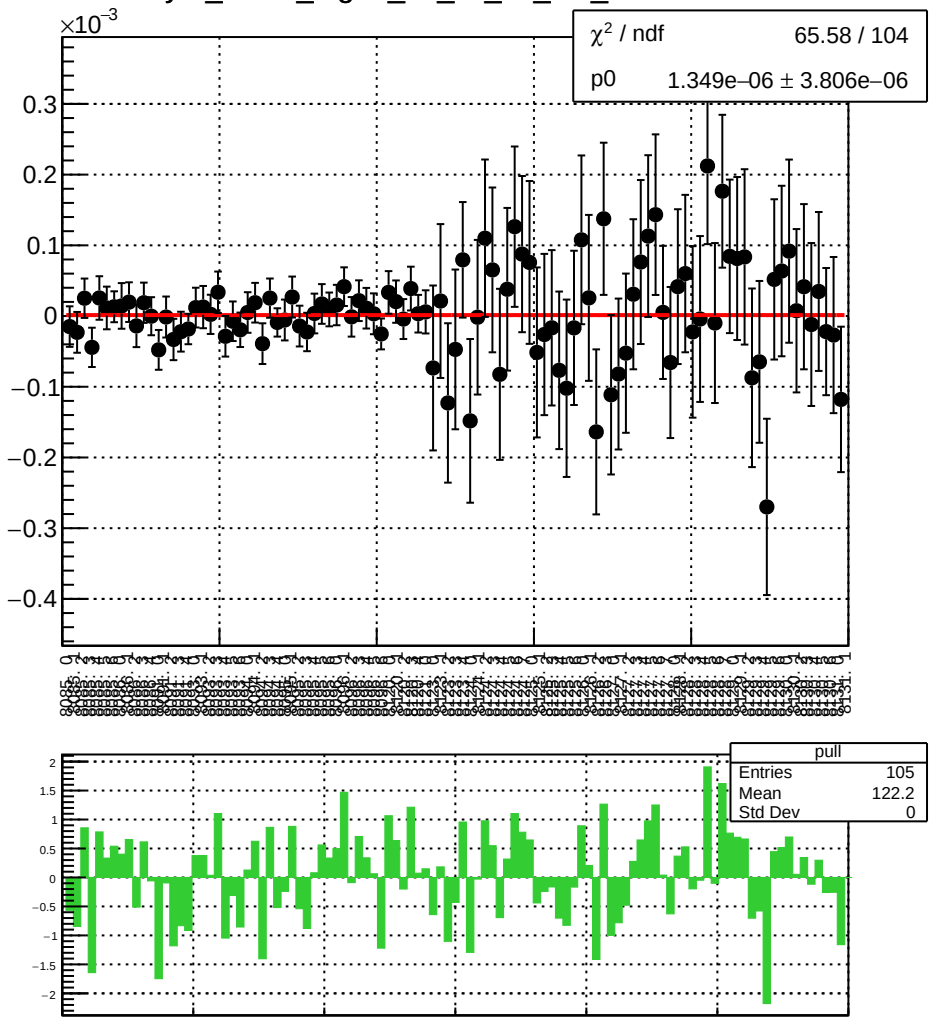

asym_sam3_dit_vs_cor_diff_mean vs run
χ² / ndf 76.15 / 104
p0 0.07303 ± 0.08105
pull
Entries 105
Mean −17.61
Std Dev 0
pull1D
Entries 105
Mean 0.01995
Std Dev 0.8514

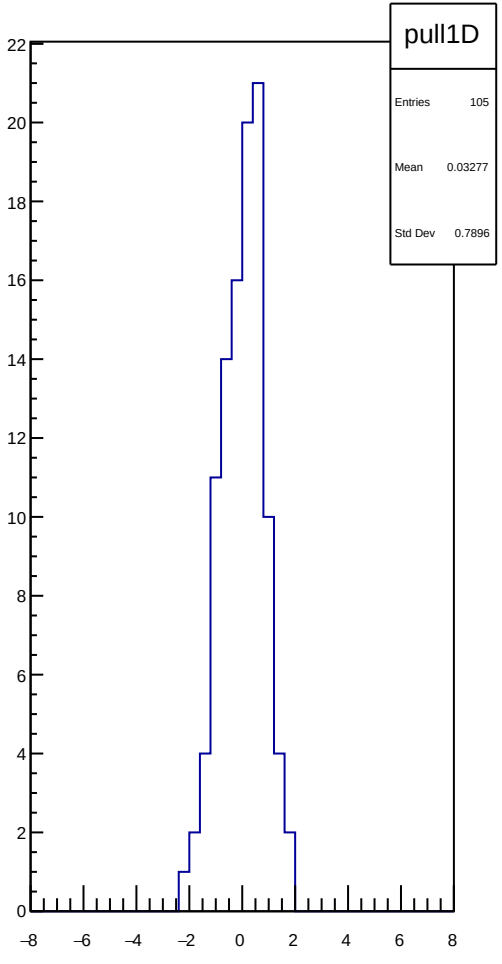

asym_sam3_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 1.49e+05 / 104
p0 78.27 ± 0.05731
220
200
180
160
140
120
100
80
60
40

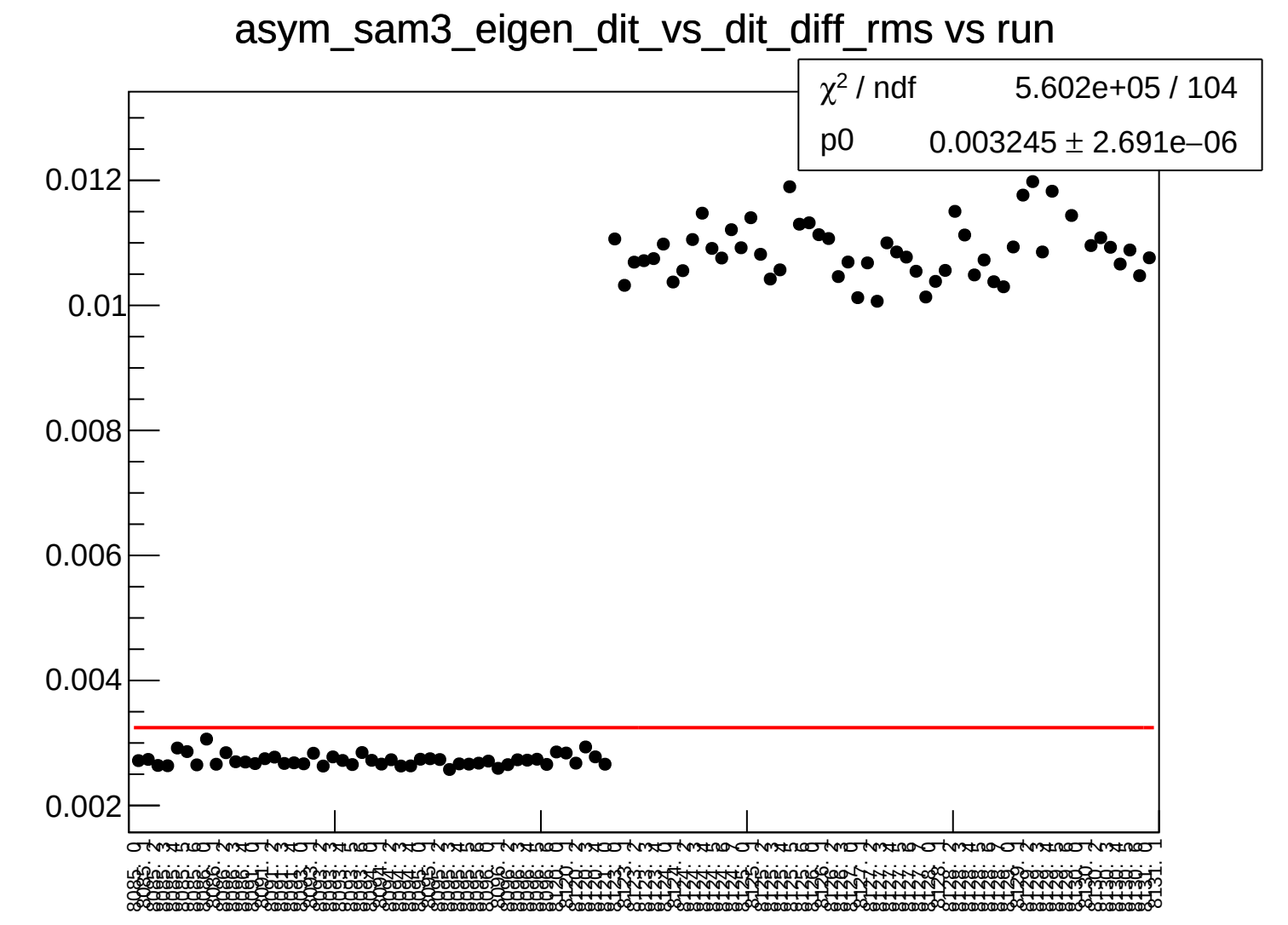

asym_sam3_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.15 / 104
p0 0.07303 ± 0.08105
pull
Entries 105
Mean −17.61
Std Dev 0

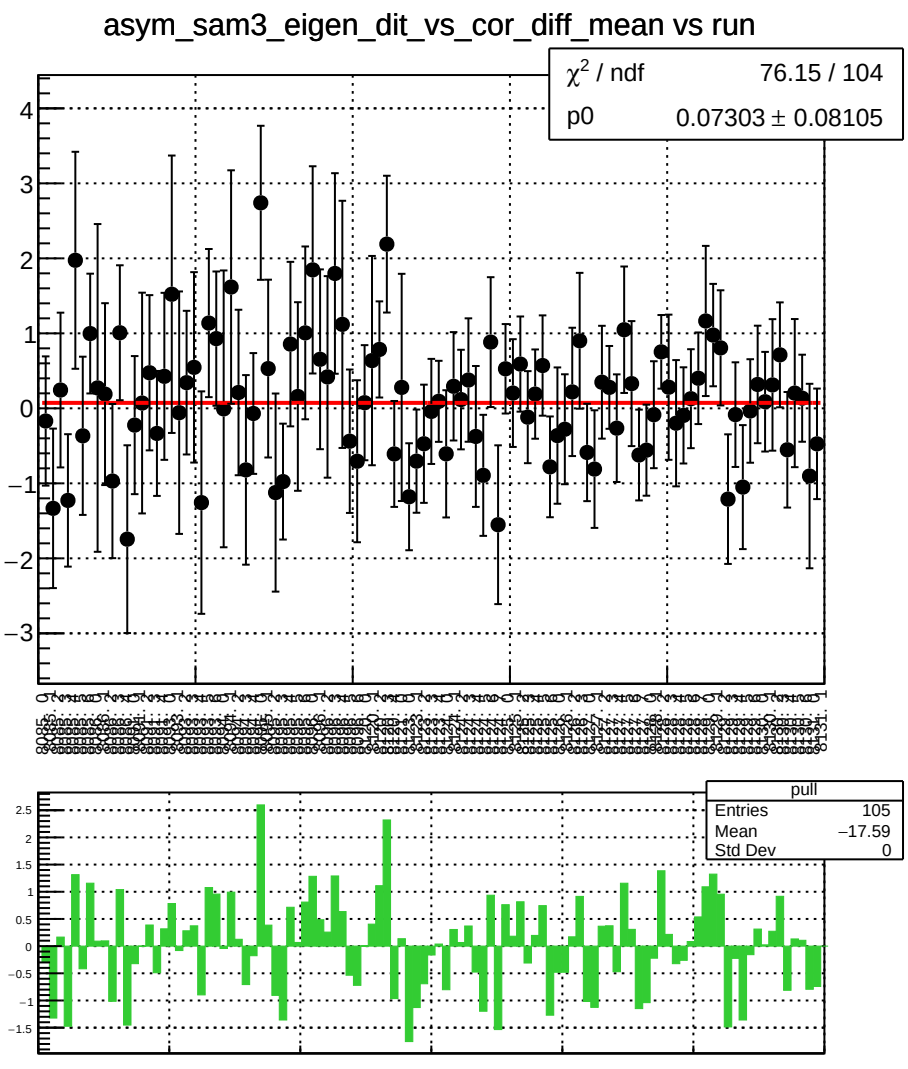

pull1D
Entries 105
Mean 0.01995
Std Dev 0.8514

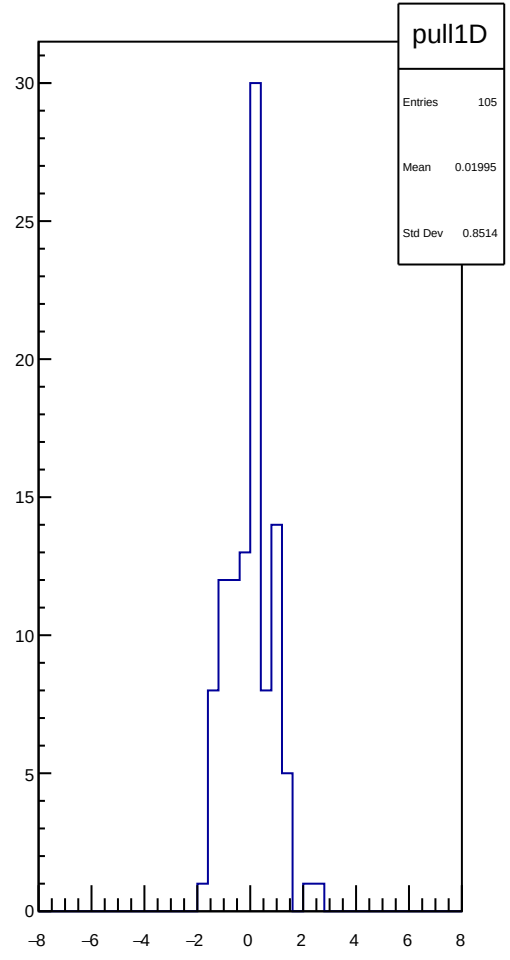

asym_sam3_dit_vs_eigen_cor_diff_rms vs run
$\chi^2$ / ndf 1.49e+05 / 104
p0 78.27 ± 0.05731
220
200
180
160
140
120
100
80
60
40

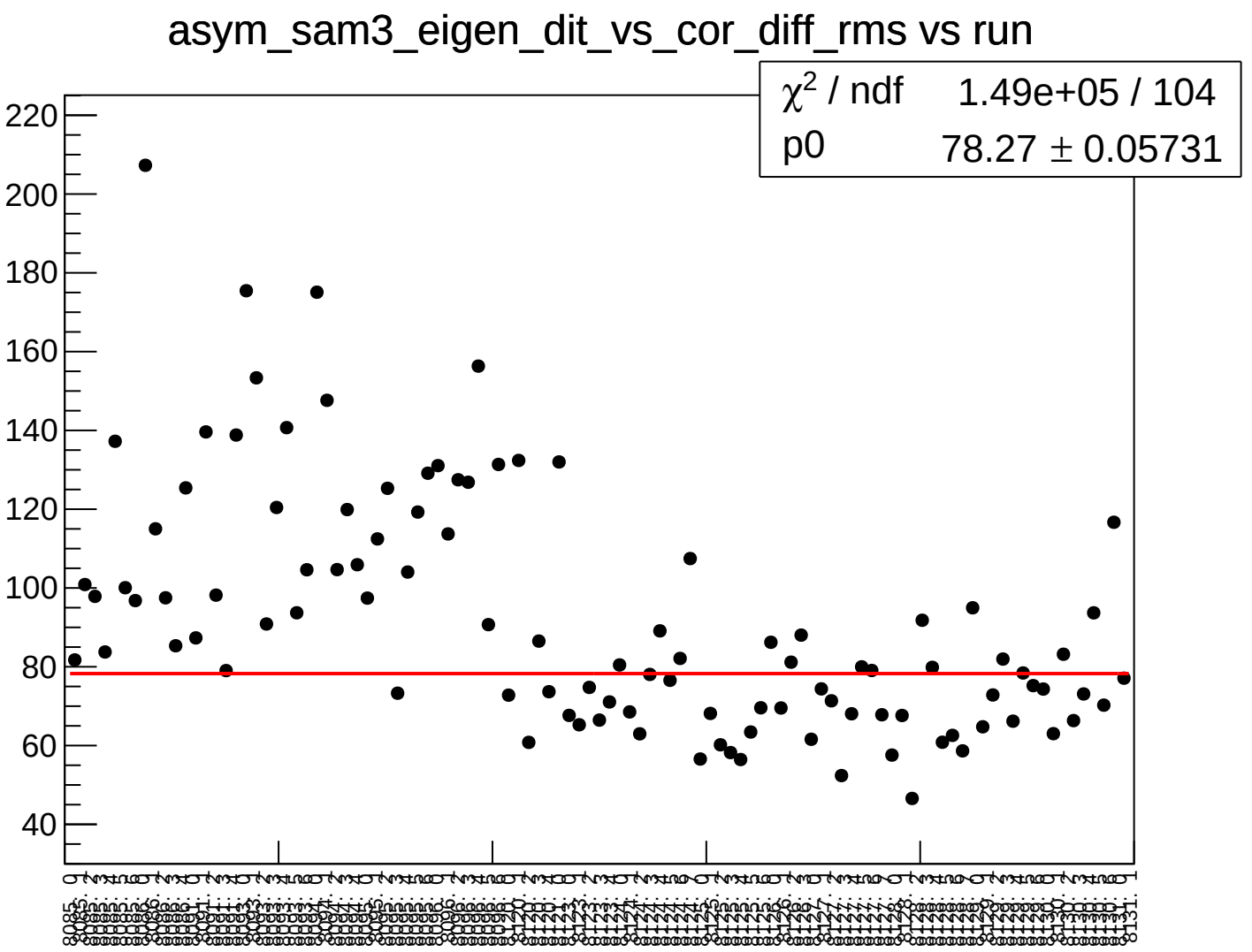

asym_sam3_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 65.58 / 104
p0 1.349e−06 ± 3.806e−06
pull
Entries 105
Mean 122.2
Std Dev 0

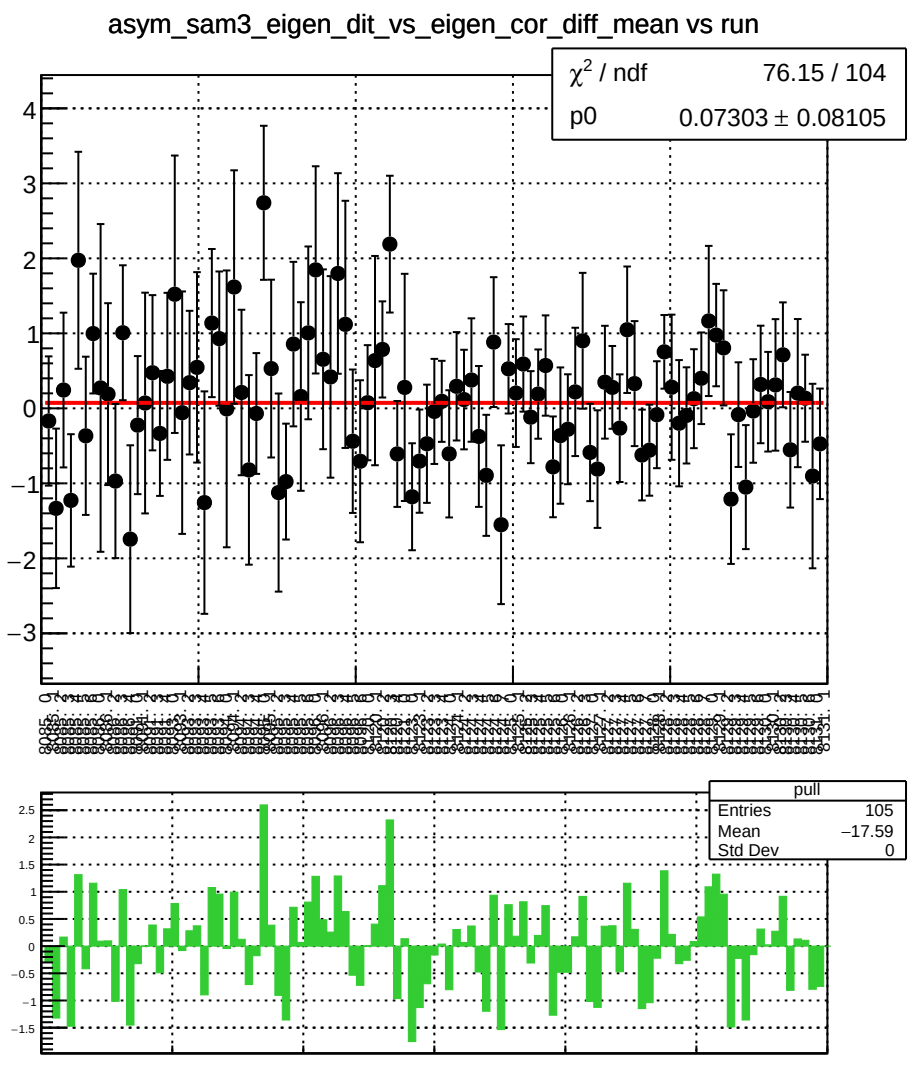

pull1D
Entries 105
Mean 0.03277
Std Dev 0.7896

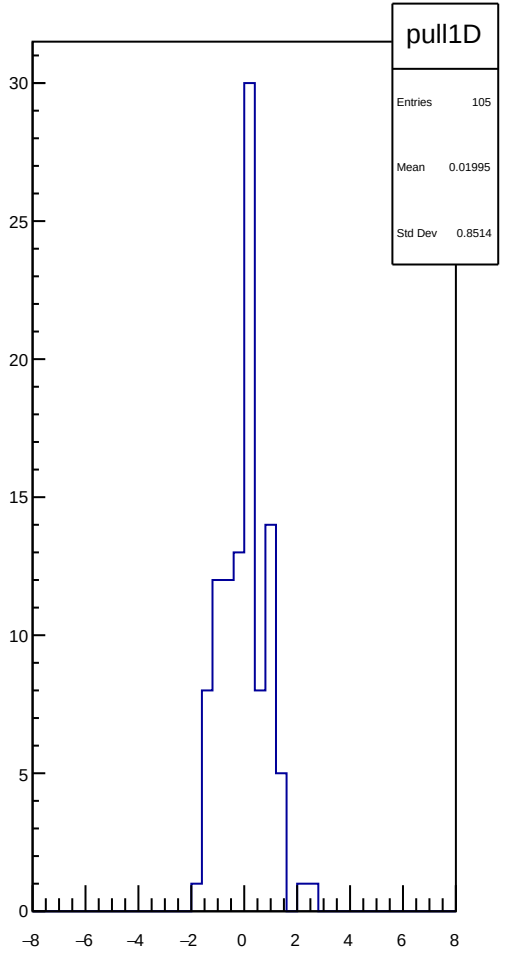

asym_sam3_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.602e+05 / 104
p0 0.003245 ± 2.691e−06
0.012
0.01
0.008
0.006
0.004
0.002

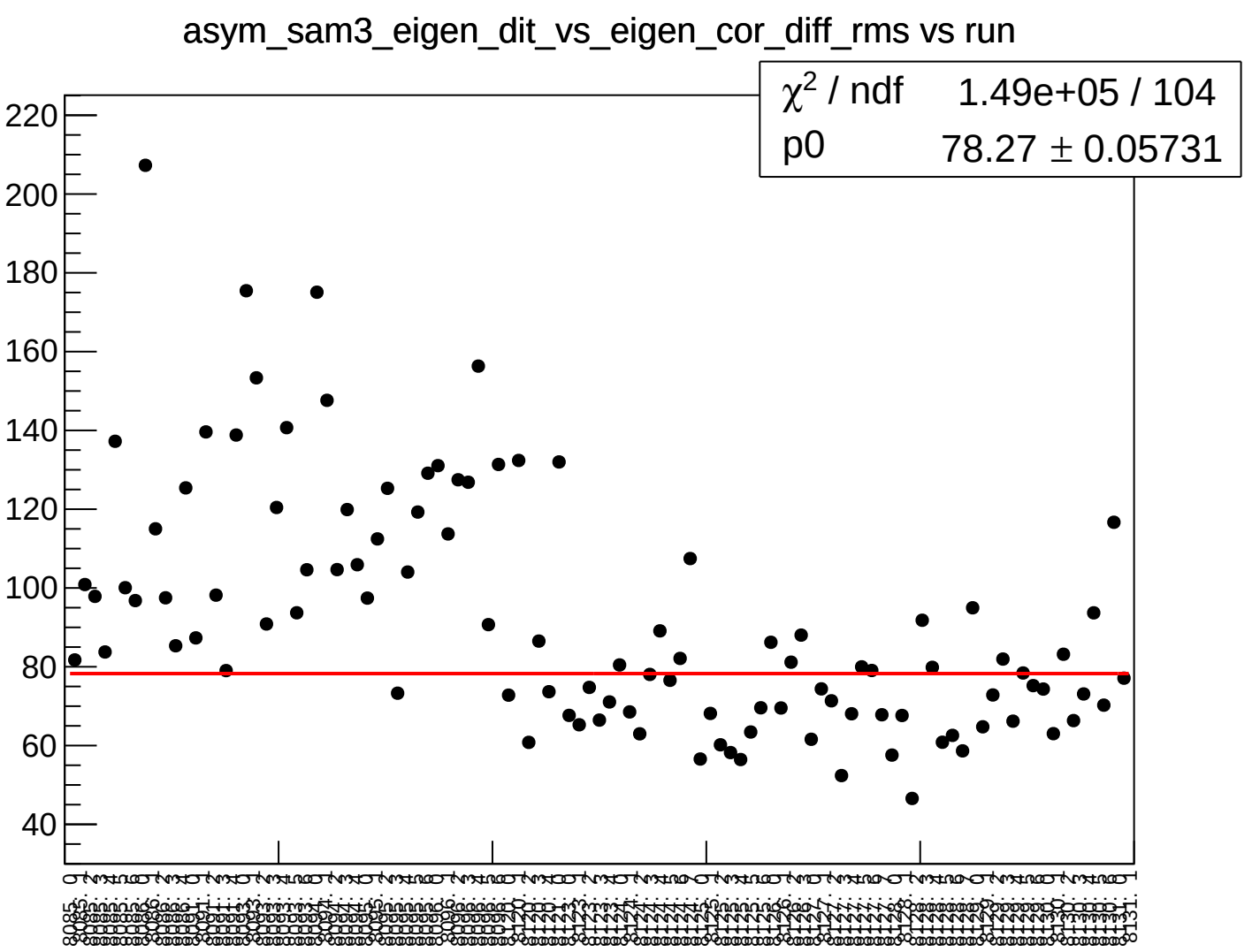

asym_sam3_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 76.15 / 104
p0 0.07303 ± 0.08105
pull
Entries 105
Mean −17.59
Std Dev 0

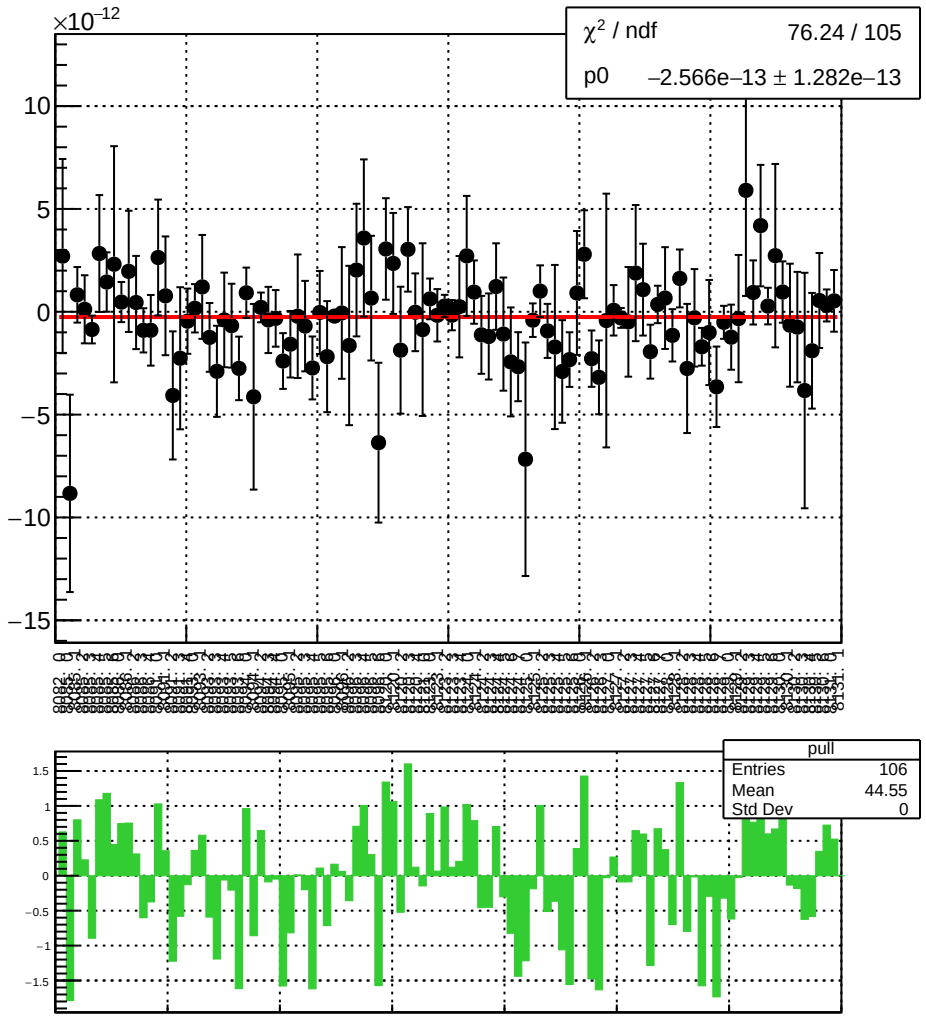

pull1D
Entries 105
Mean 0.01995
Std Dev 0.8514

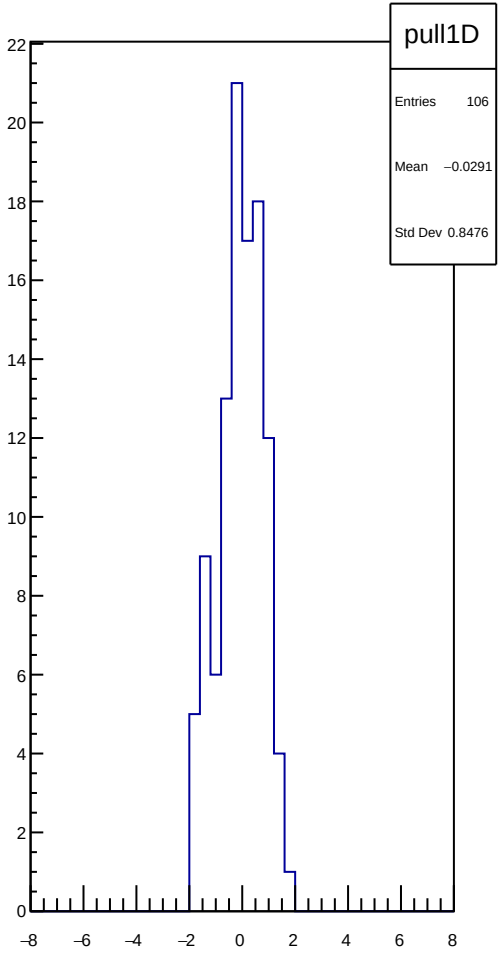

asym_sam3_eigen_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 1.49e+05 / 104
p0 78.27 ± 0.05731
220
200
180
160
140
120
100
80
60
40

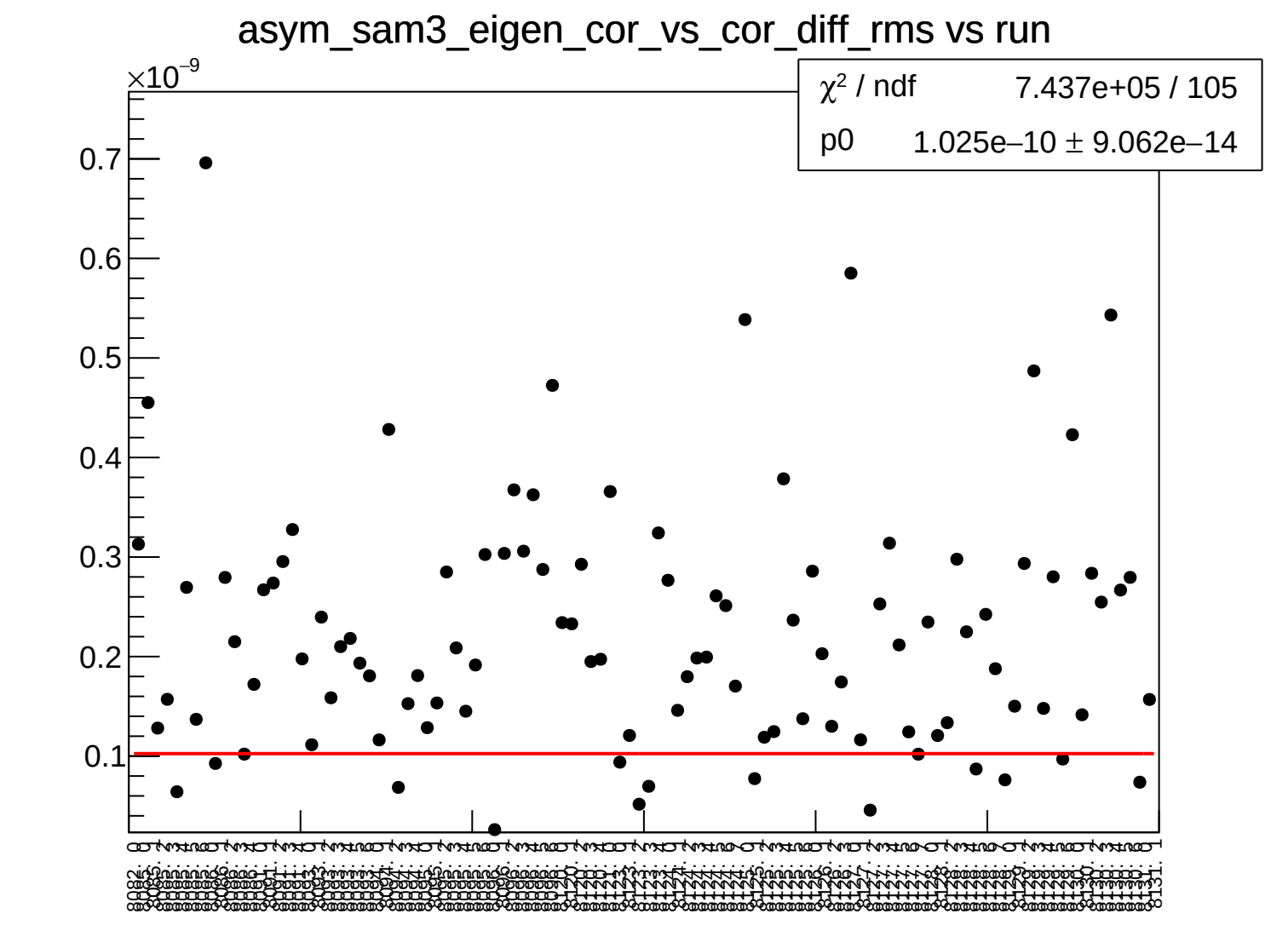

asym_sam3_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 76.15 / 104
p0 0.07303 ± 0.08105
pull
Entries 105
Mean −17.59
Std Dev 0

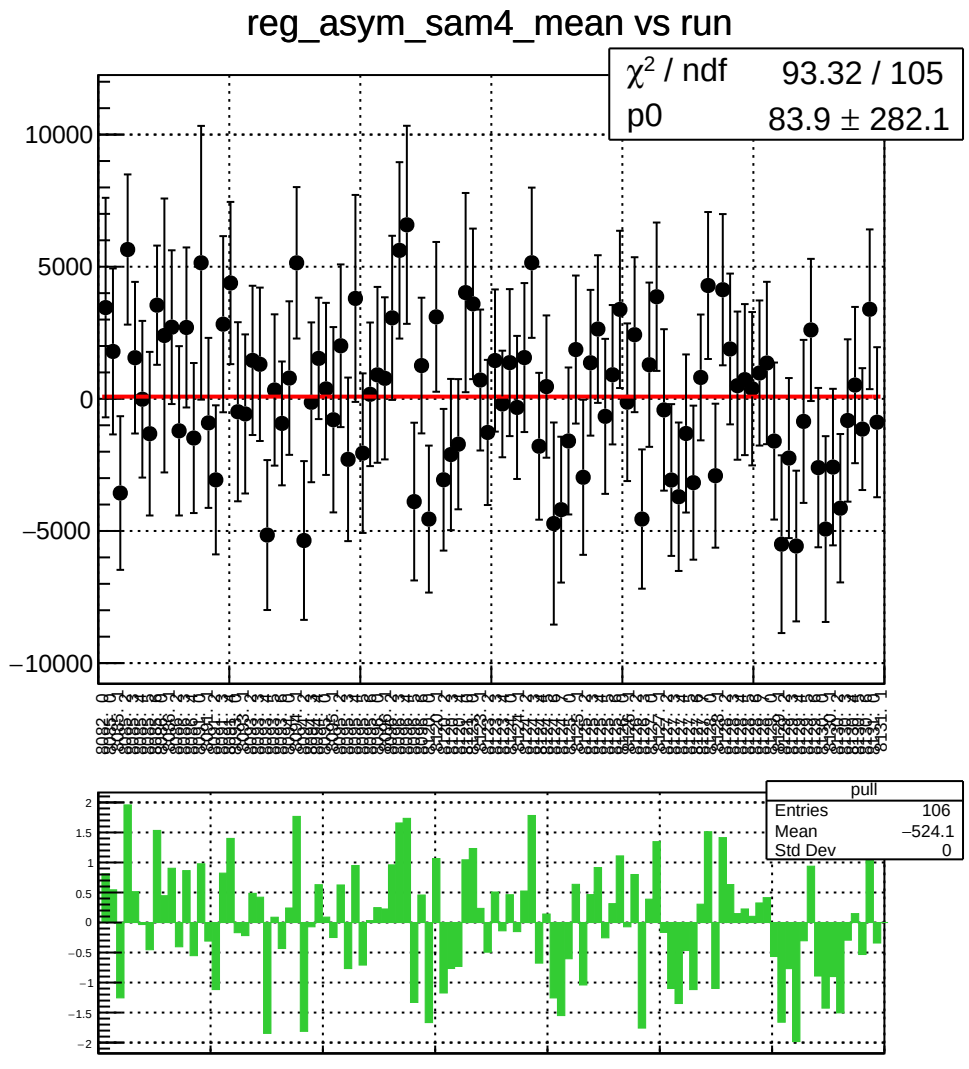

pull1D
Entries 105
Mean 0.01995
Std Dev 0.8514

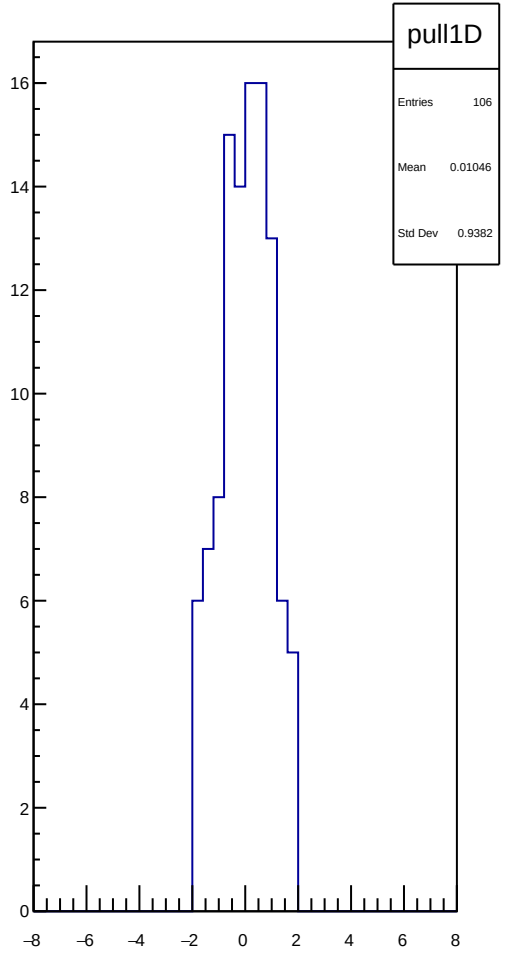

asym_sam3_eigen_dit_vs_eigen_cor_diff_rms vs run
$\chi^2$ / ndf 1.49e+05 / 104
p0 78.27 ± 0.05731
220
200
180
160
140
120
100
80
60
40

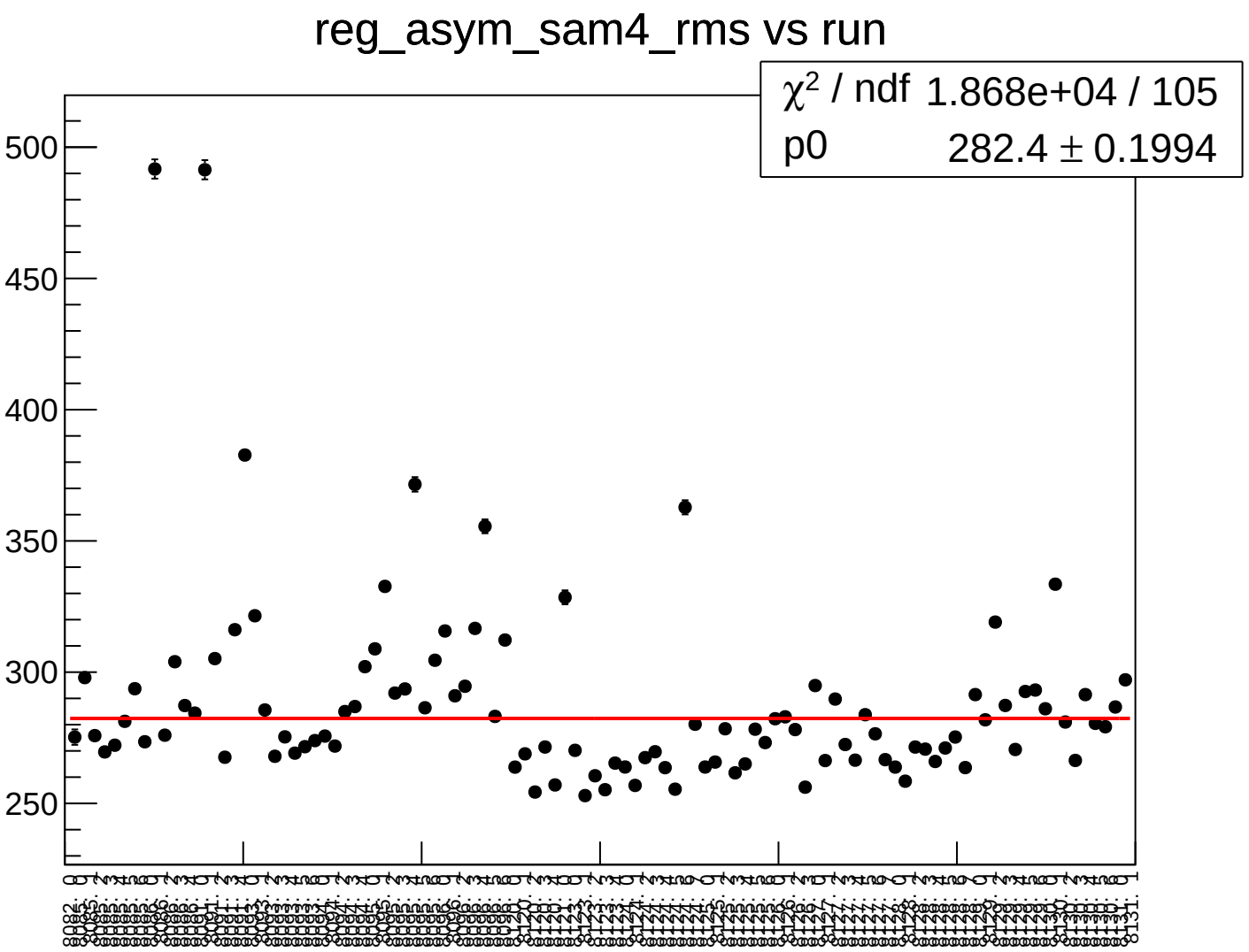

asym_sam3_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 76.24 / 105
p0 −2.566e−13 ± 1.282e−13
10
5
0
−5
−10
−15
pull
Entries 106
Mean 44.55
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

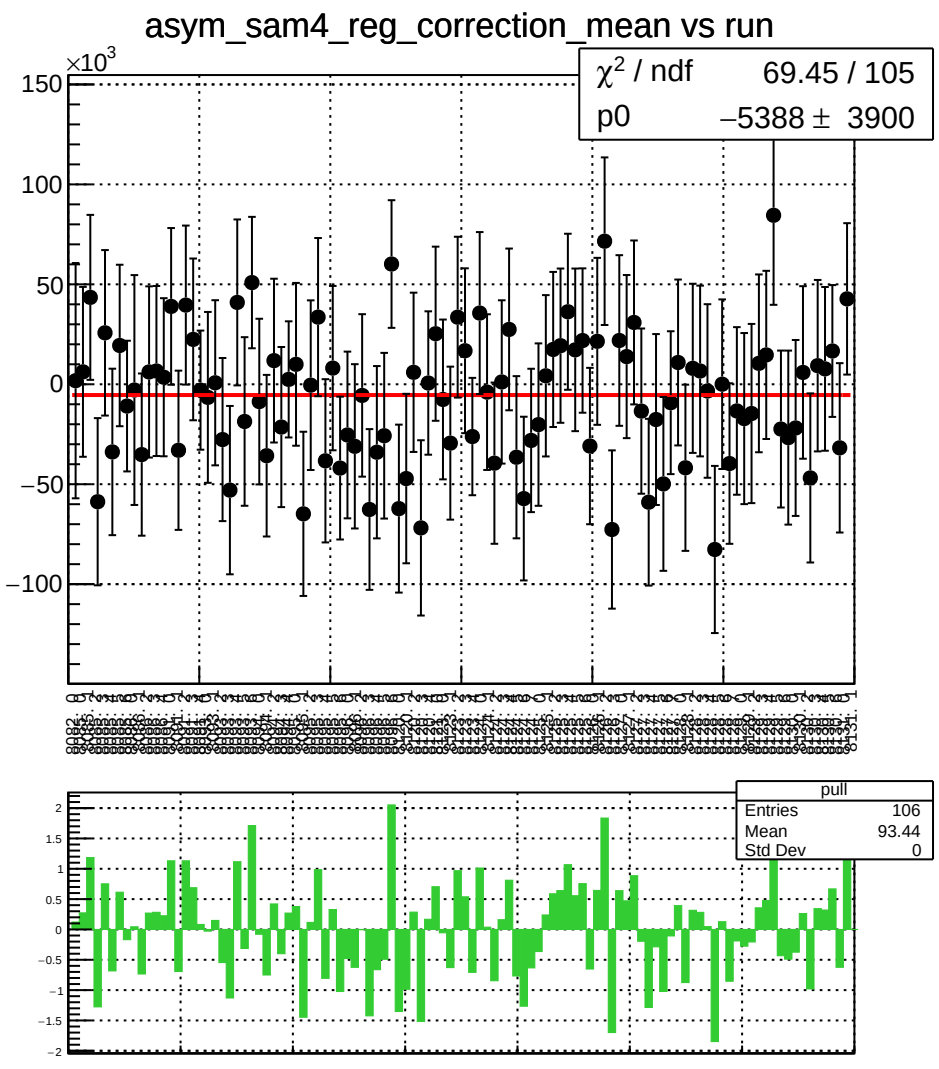

pull1D
Entries 106
Mean −0.0291
Std Dev 0.8476
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

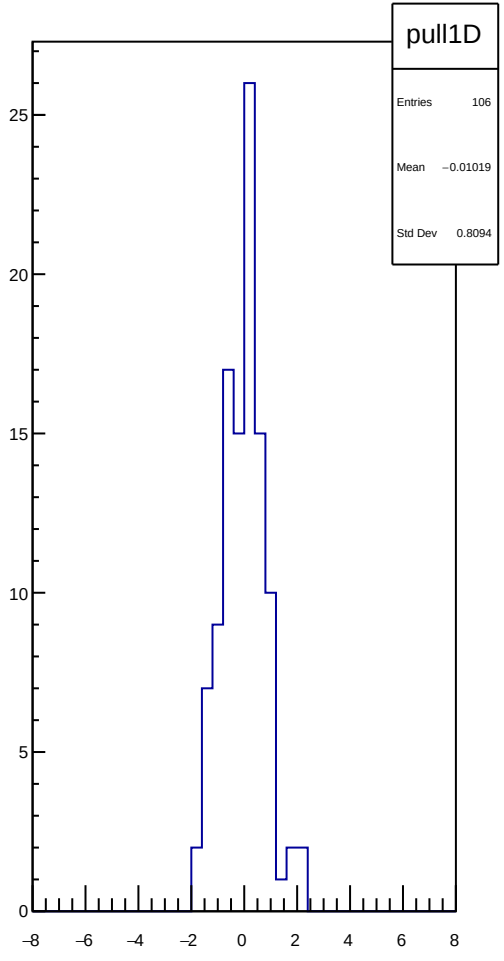

asym_sam3_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.437e+05 / 105
p0 1.025e−10 ± 9.062e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

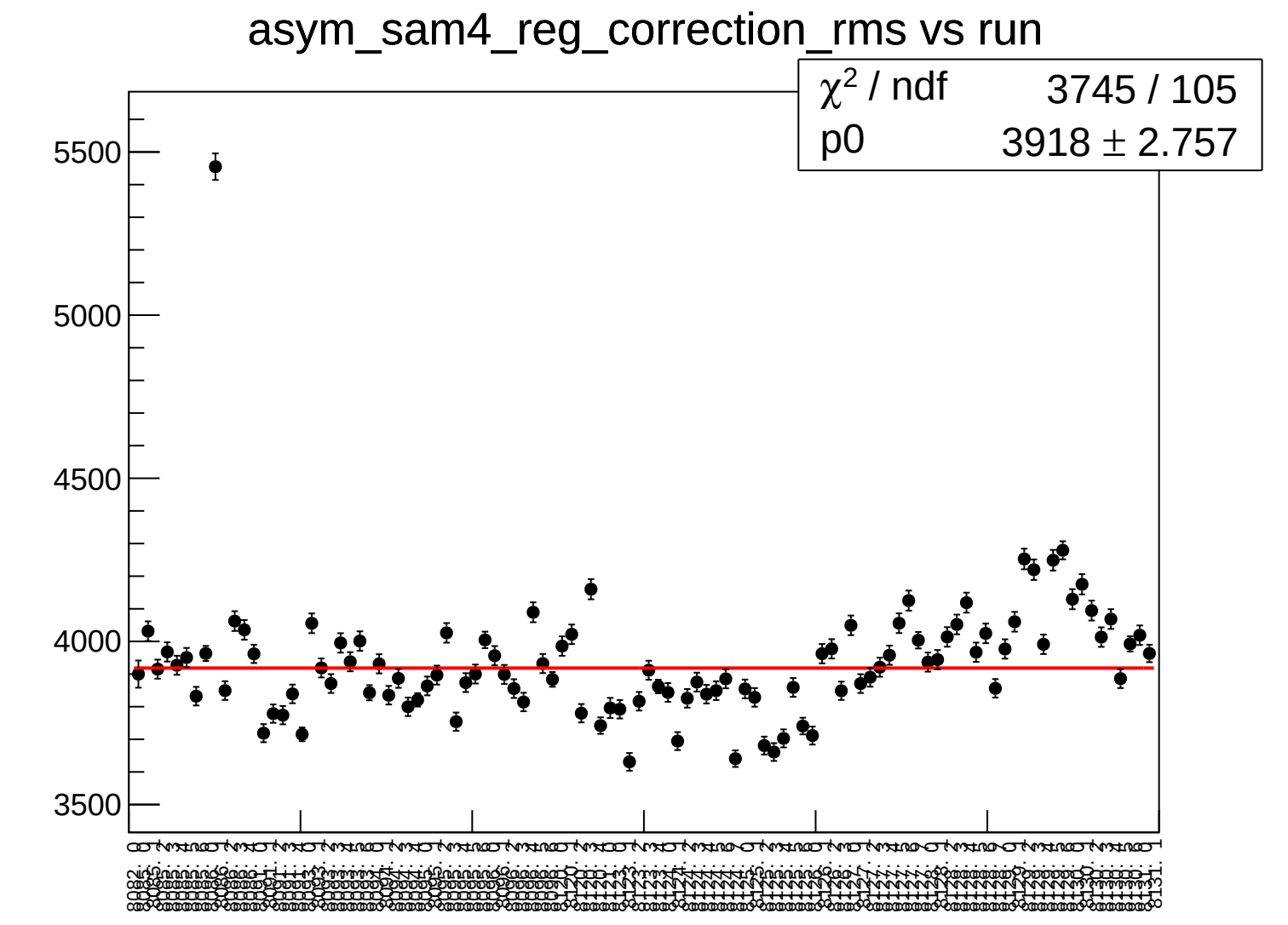

reg_asym_sam4_mean vs run
χ² / ndf 93.32 / 105
p0 83.9 ± 282.1
10000
5000
0
−5000
−10000
pull
Entries 106
Mean −524.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

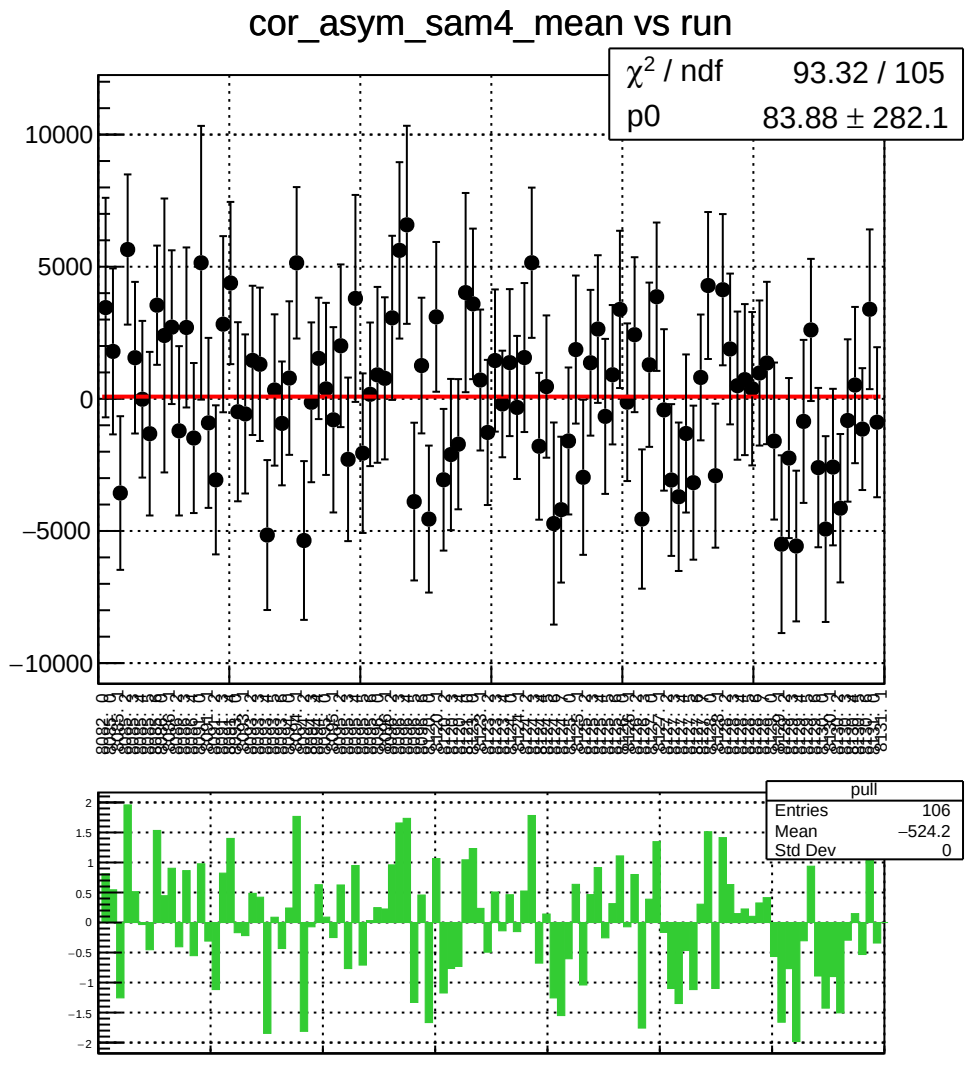

pull1D
Entries 106
Mean 0.01046
Std Dev 0.9382
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

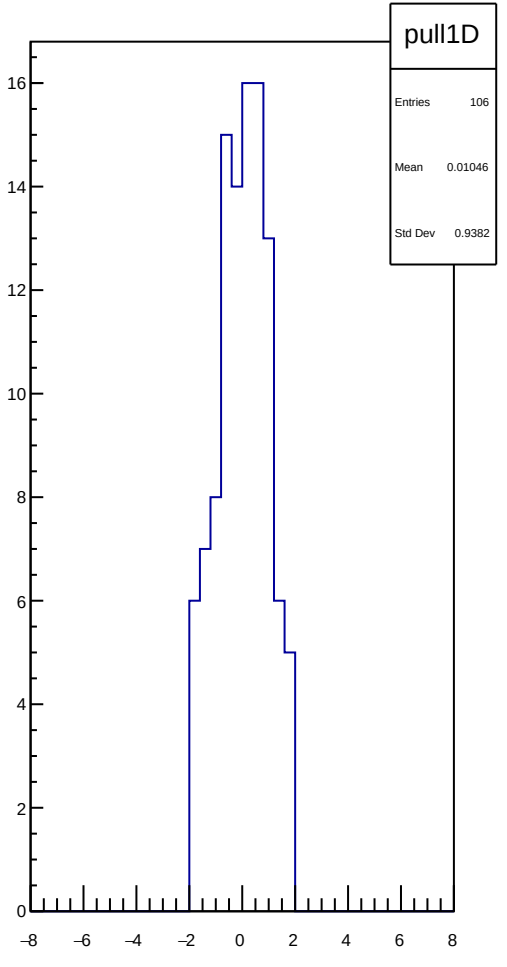

reg_asym_sam4_rms vs run
χ² / ndf 1.868e+04 / 105
p0 282.4 ± 0.1994
500
450
400
350
300
250

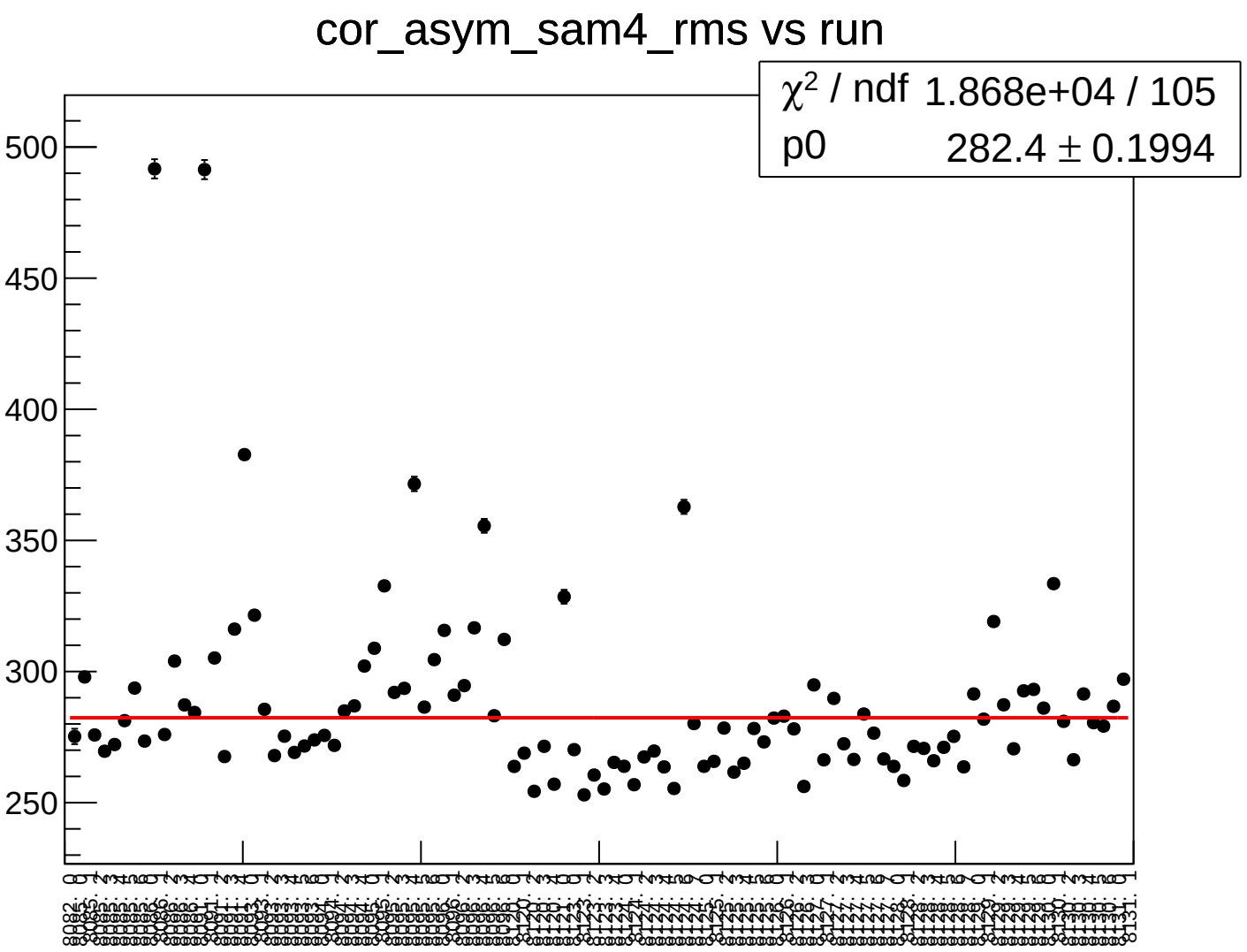

asym_sam4_reg_correction_mean vs run
×10^3
χ^2 / ndf 69.45 / 105
p0 −5388 ± 3900
150
100
50
0
−50
−100
pull
Entries 106
Mean 93.44
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

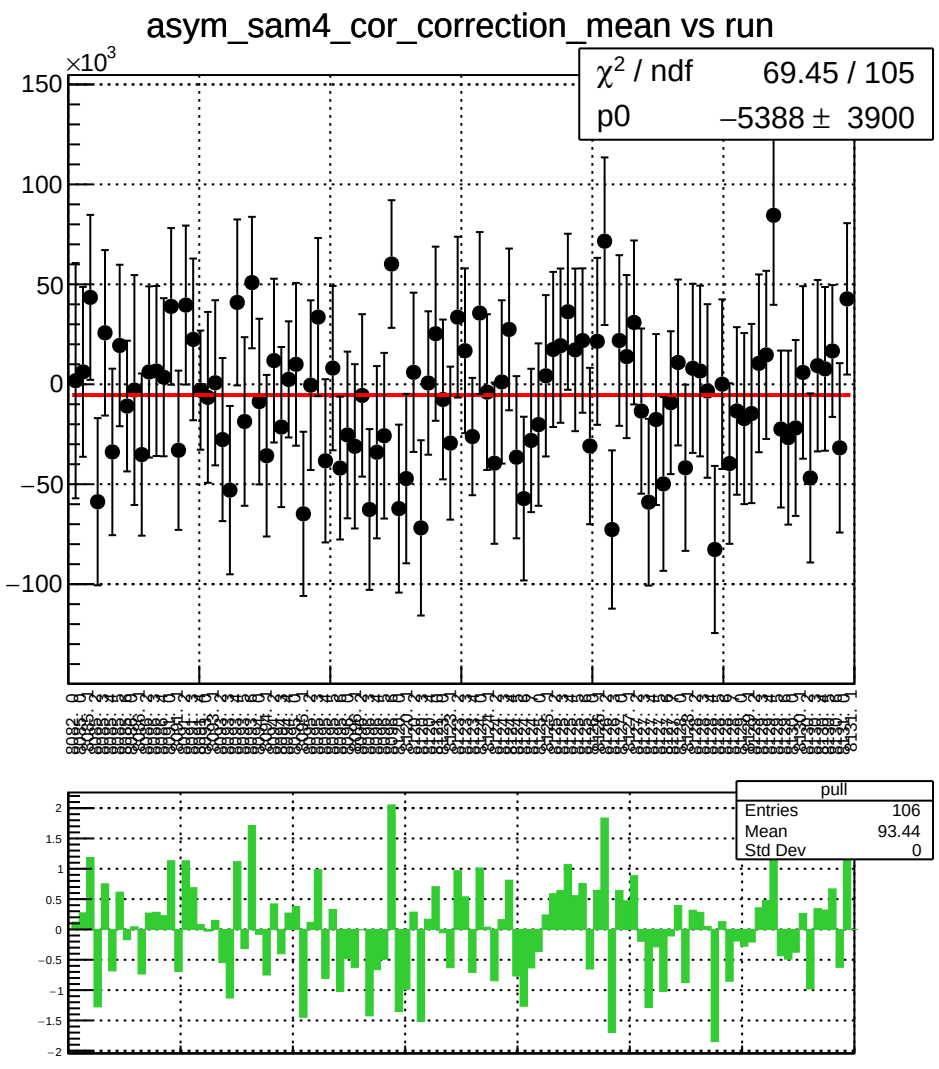

pull1D
Entries 106
Mean −0.01019
Std Dev 0.8094
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

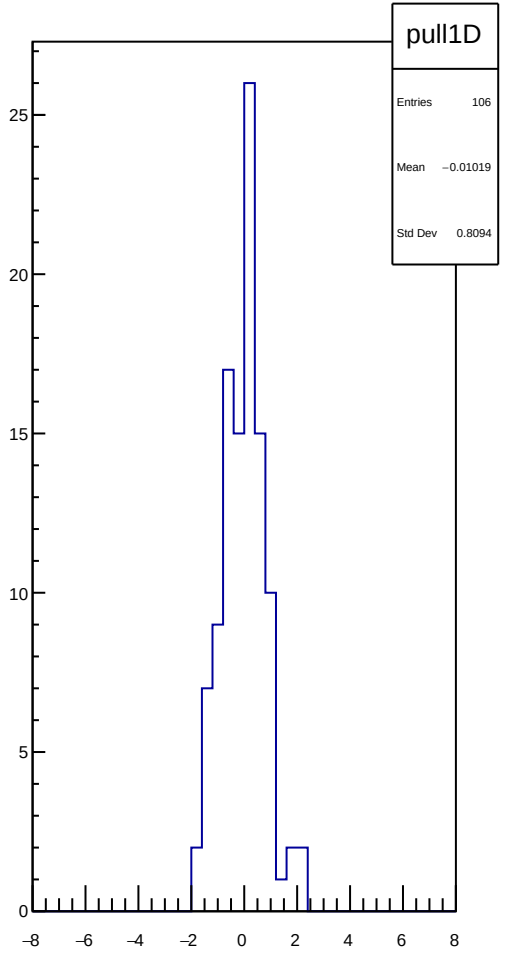

asym_sam4_reg_correction_rms vs run
χ² / ndf 3745 / 105
p0 3918 ± 2.757
5500
5000
4500
4000
3500

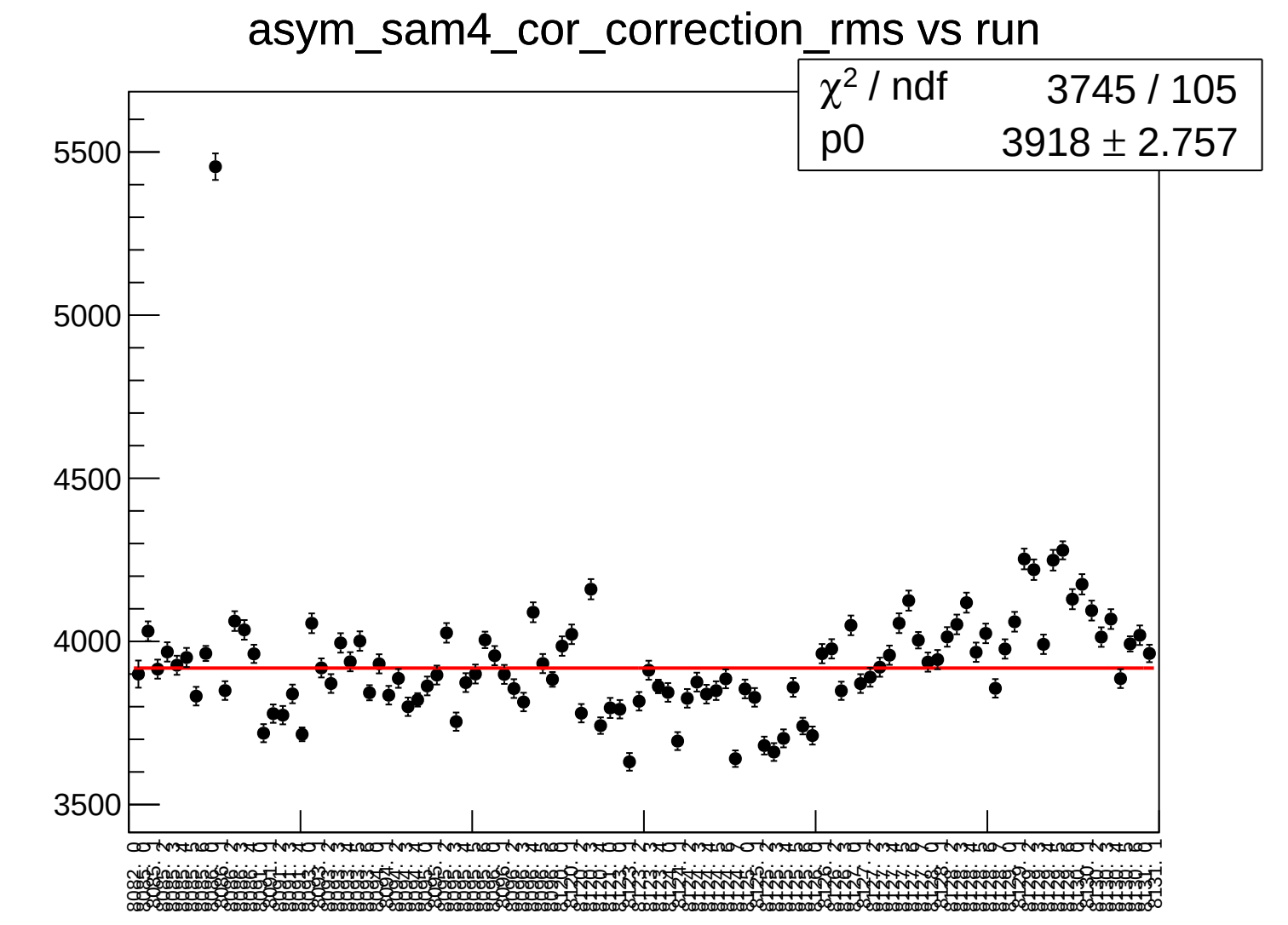

cor_asym_sam4_mean vs run
χ² / ndf 93.32 / 105
p0 83.88 ± 282.1
10000
5000
0
−5000
−10000
pull
Entries 106
Mean −524.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

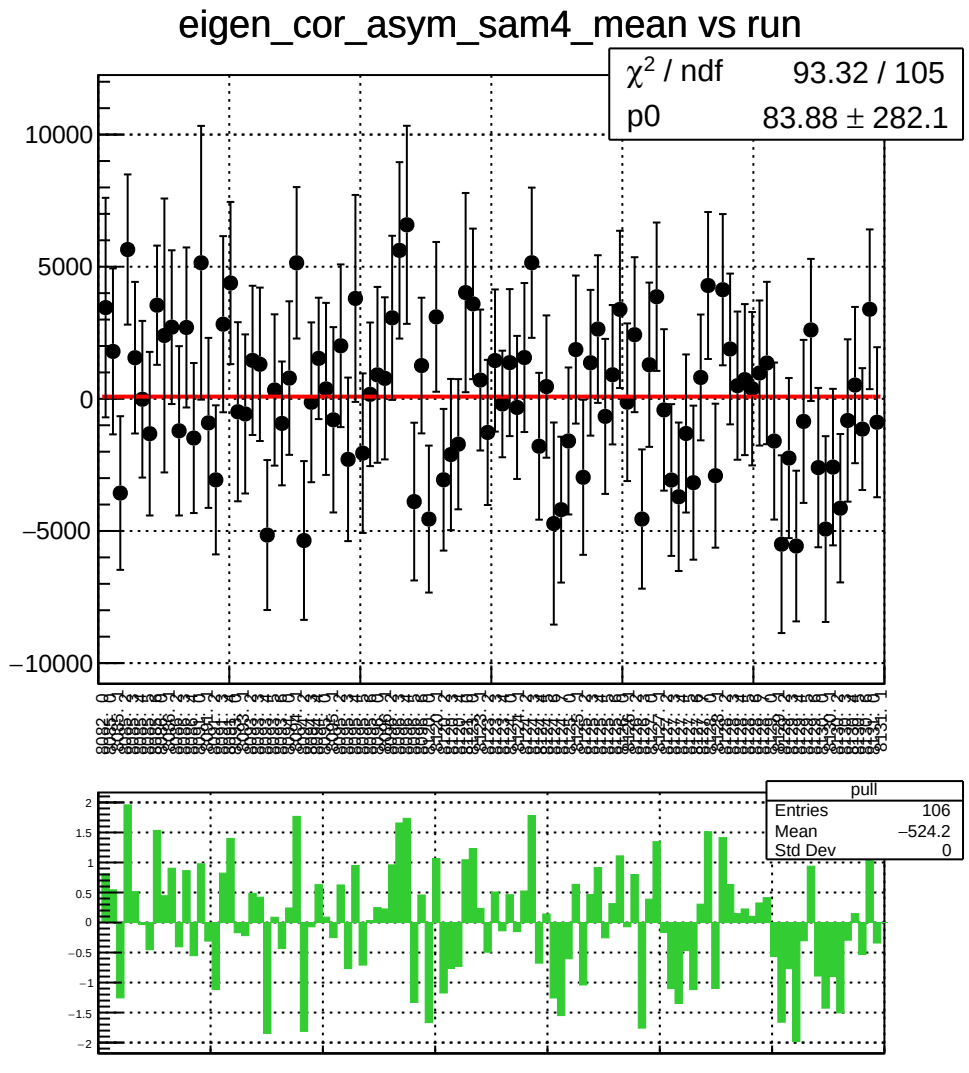

pull1D
Entries 106
Mean 0.01046
Std Dev 0.9382
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

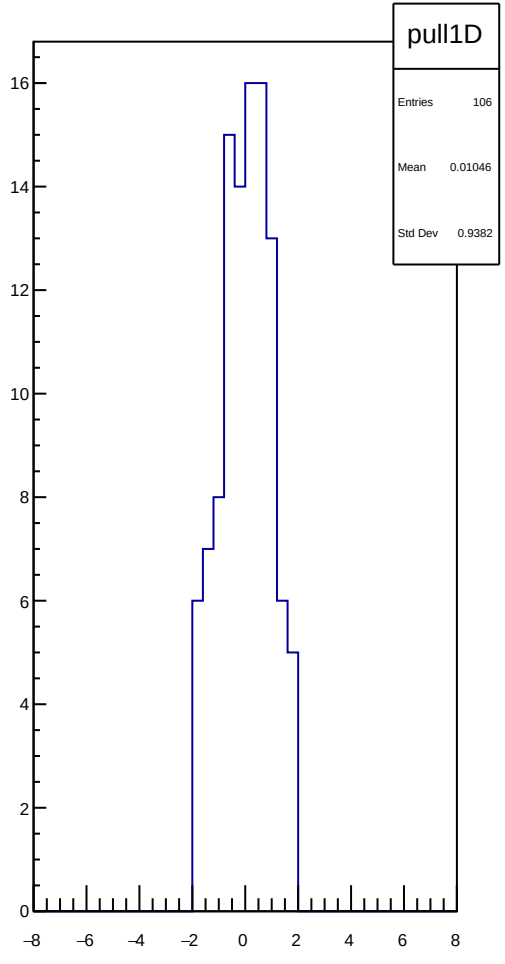

cor_asym_sam4_rms vs run
χ² / ndf 1.868e+04 / 105
p0 282.4 ± 0.1994
500
450
400
350
300
250


asym_sam4_cor_correction_mean vs run
×10^3
χ^2 / ndf 69.45 / 105
p0 −5388 ± 3900
150
100
50
0
−50
−100
pull
Entries 106
Mean 93.44
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 106
Mean −0.01019
Std Dev 0.8094
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam4_cor_correction_rms vs run
χ² / ndf 3745 / 105
p0 3918 ± 2.757
5500
5000
4500
4000
3500


eigen_cor_asym_sam4_mean vs run
χ² / ndf 93.32 / 105
p0 83.88 ± 282.1
10000
5000
0
−5000
−10000
pull
Entries 106
Mean −524.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 106
Mean 0.01046
Std Dev 0.9382
16
14
12
10
8
6
4
2
0
−8
−6
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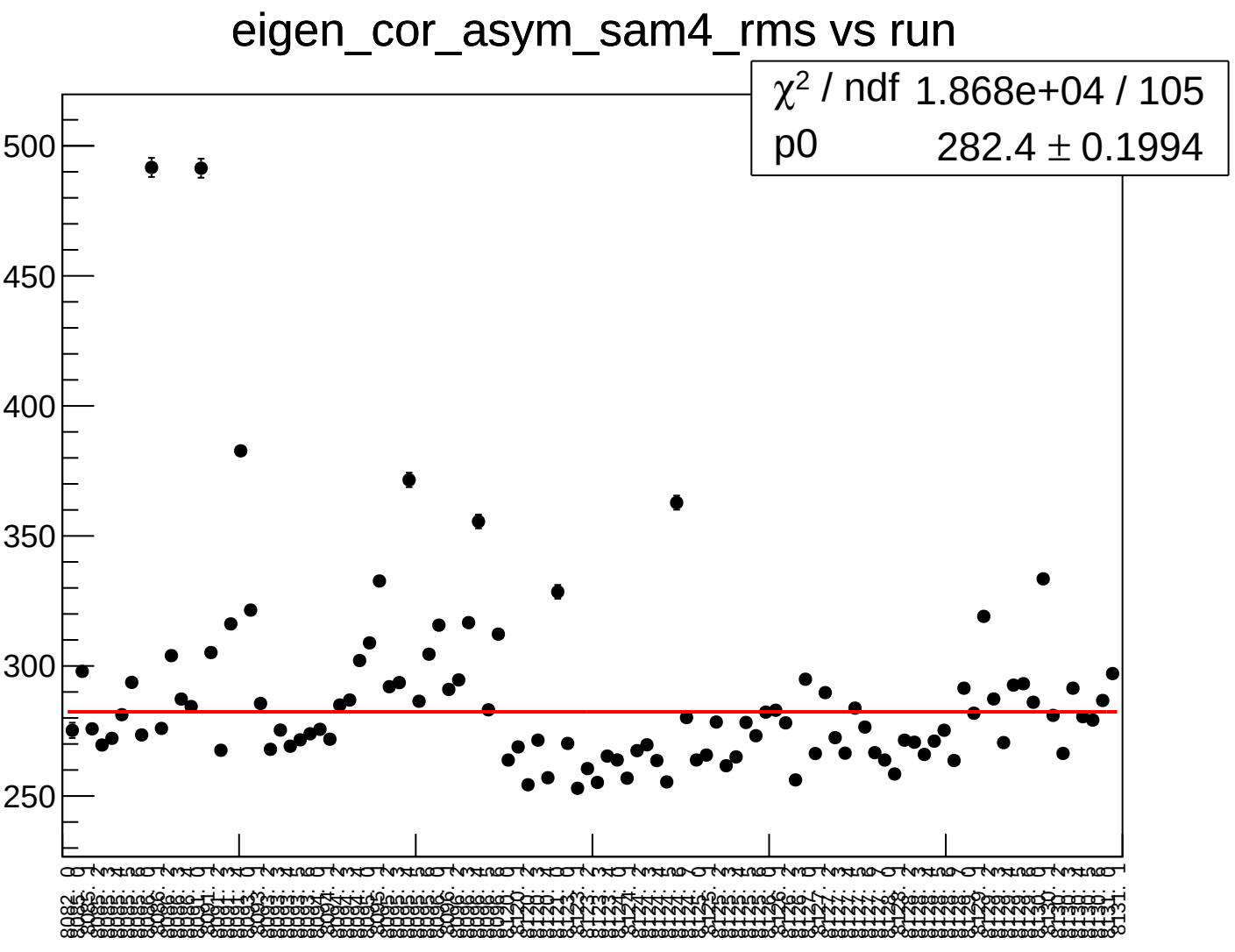
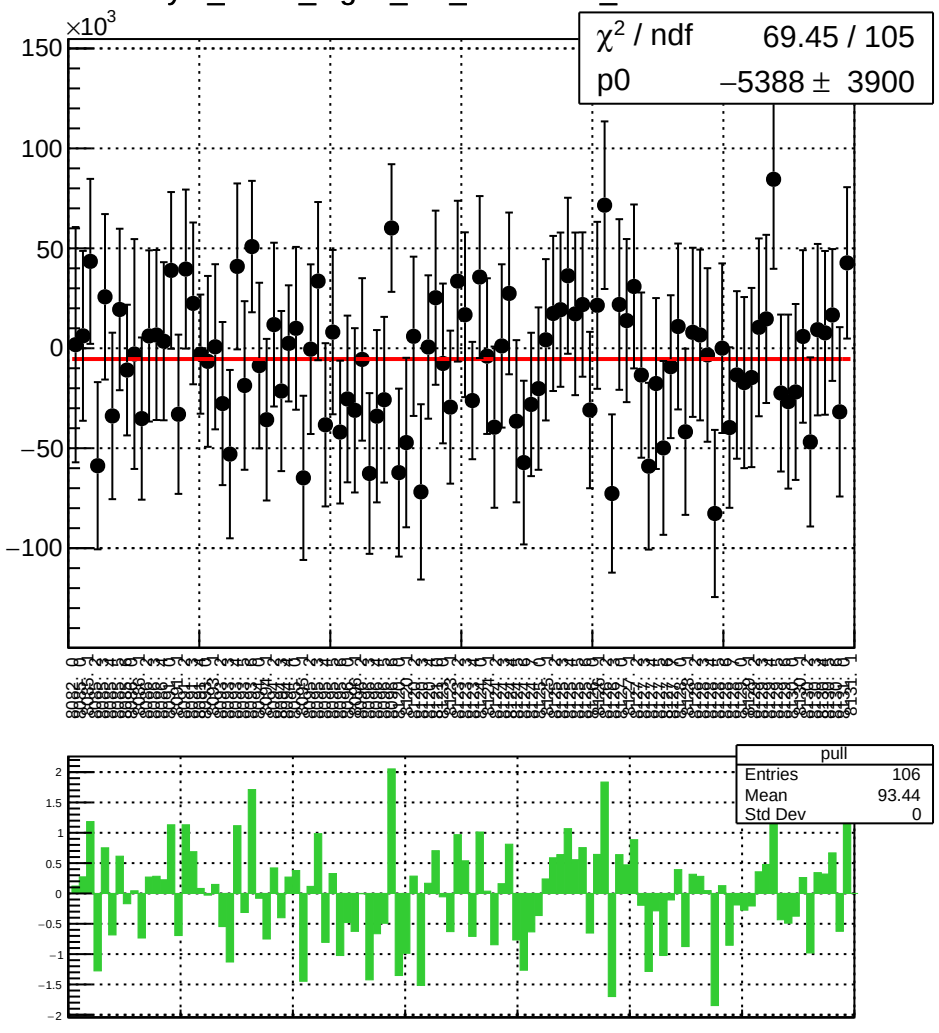
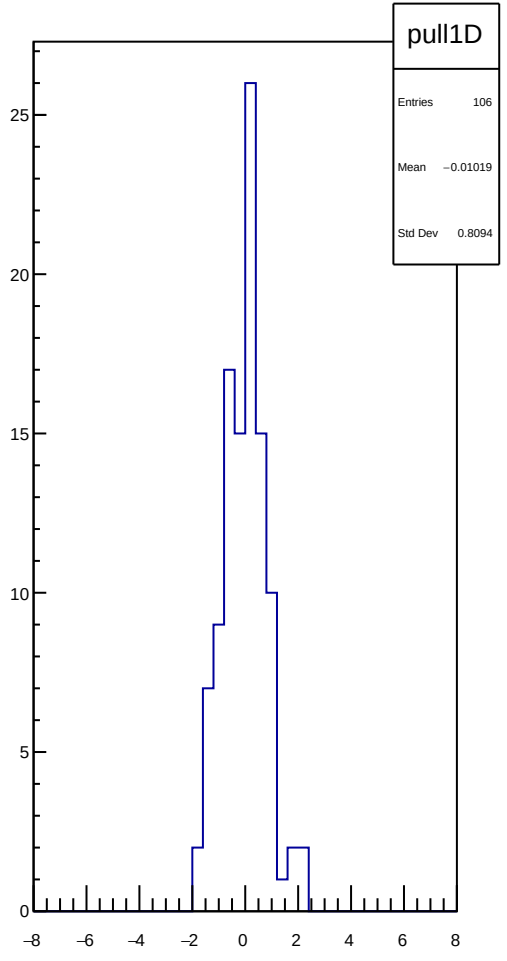
2
4
6
8


eigen_cor_asym_sam4_rms vs run
χ² / ndf 1.868e+04 / 105
p0 282.4 ± 0.1994
500
450
400
350
300
250


asym_sam4_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 69.45 / 105
p0 −5388 ± 3900
150
100
50
0
−50
−100
pull
Entries 106
Mean 93.44
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 106
Mean −0.01019
Std Dev 0.8094
25
20
15
10
5
0
−8
−6
−4
−2
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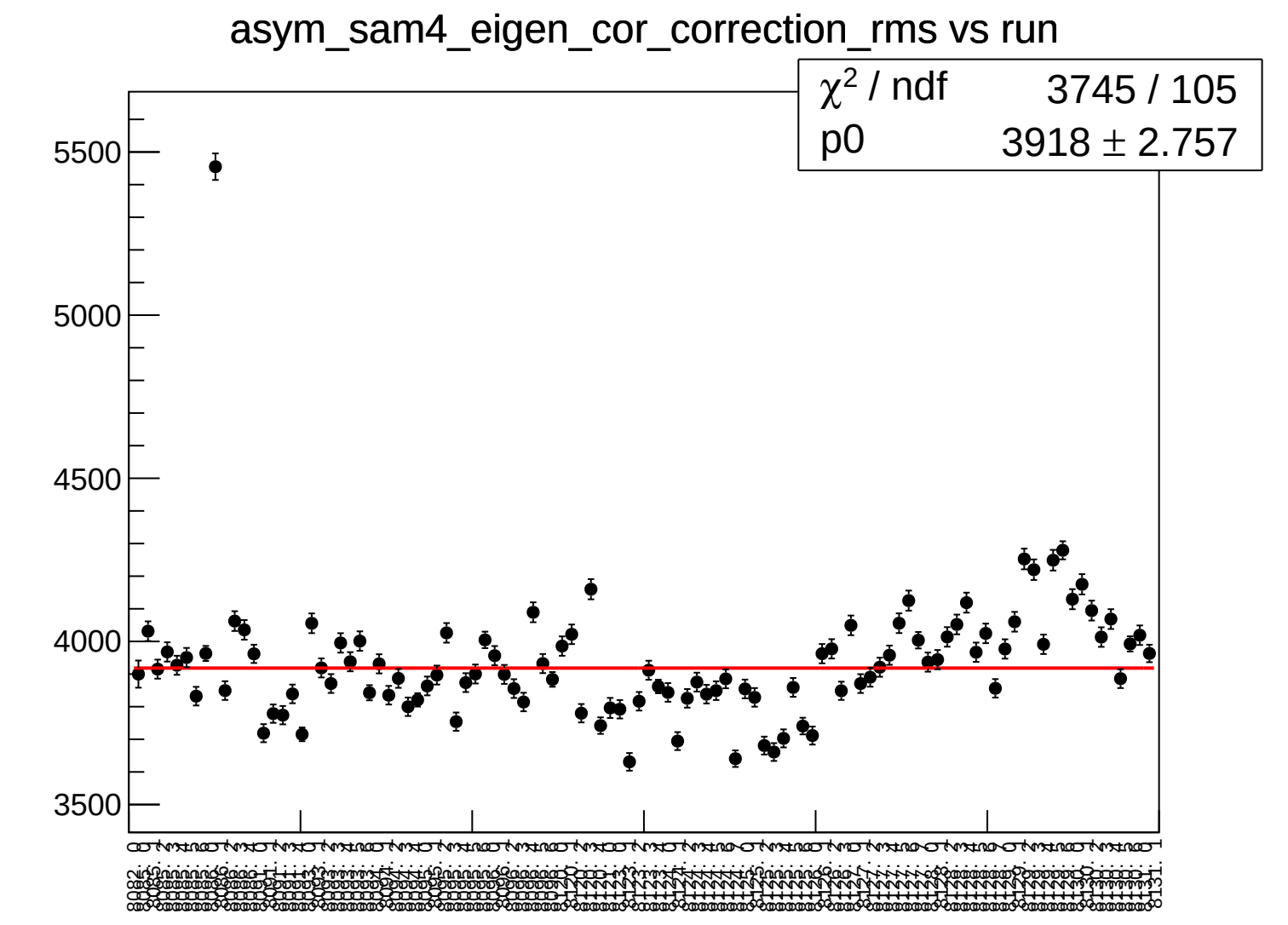
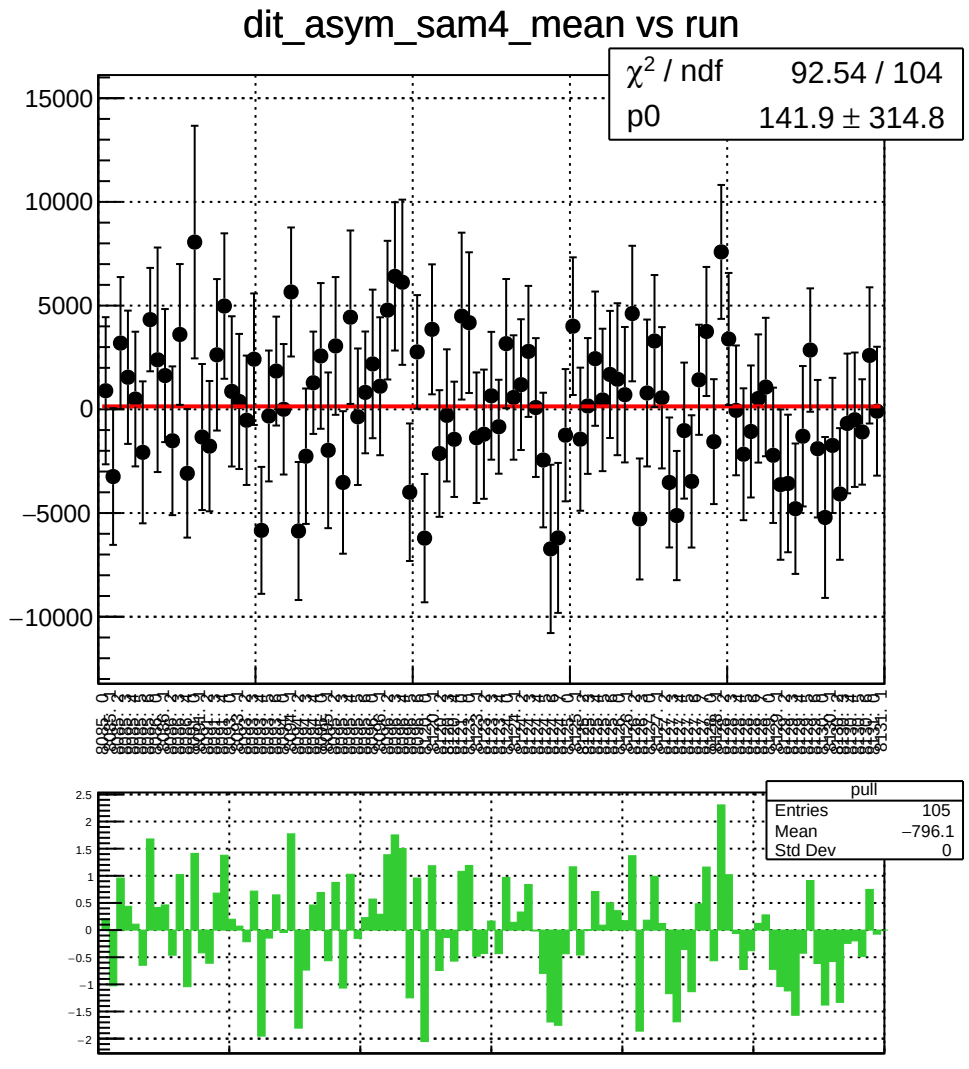
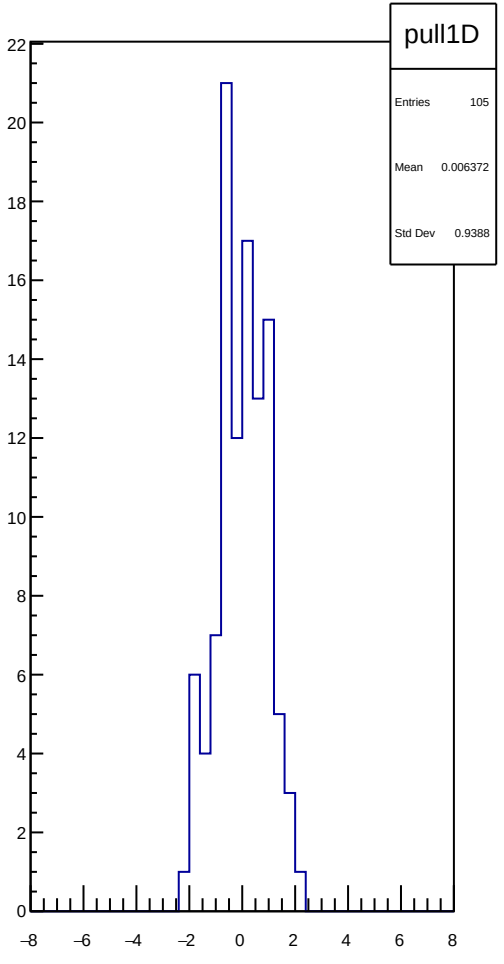
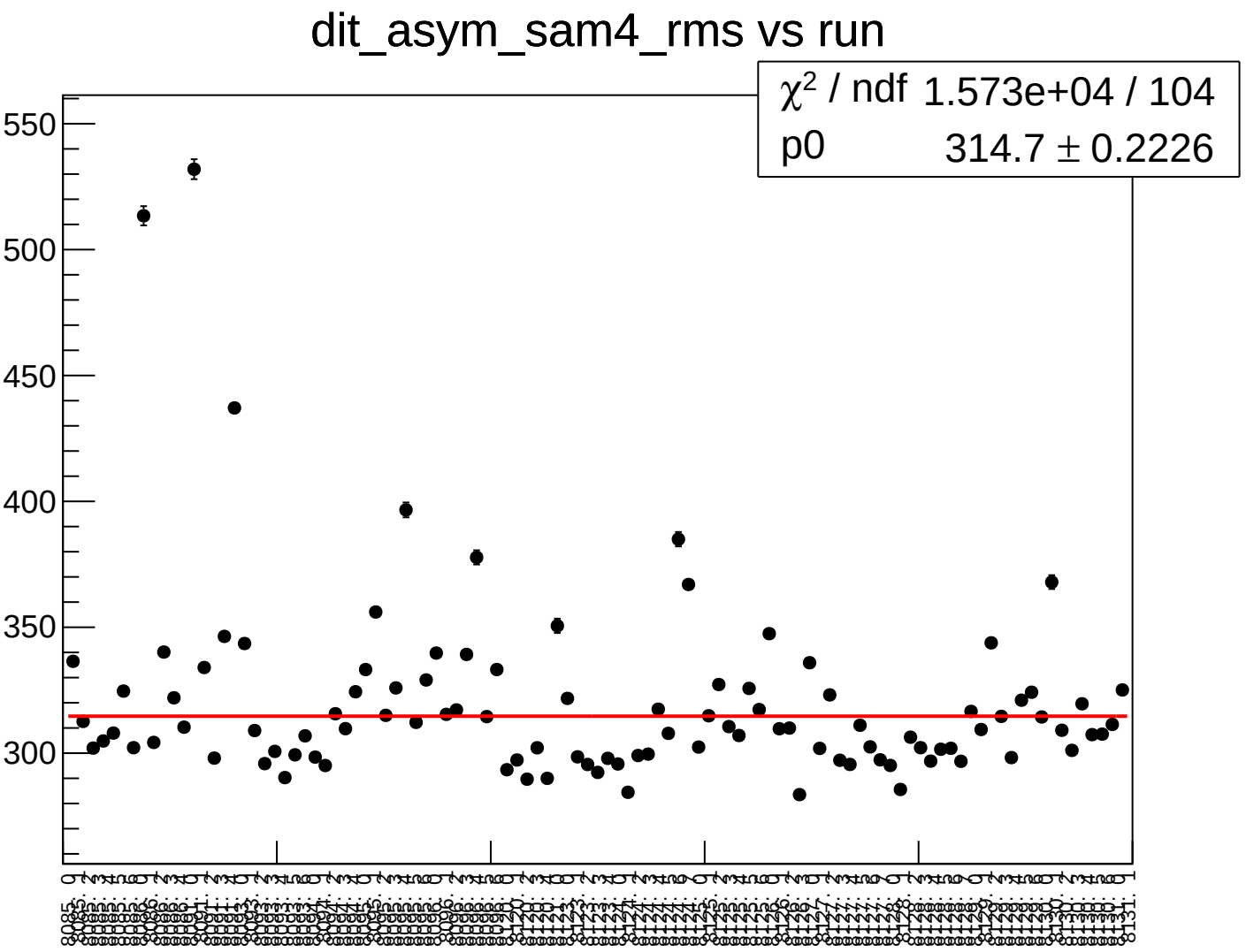
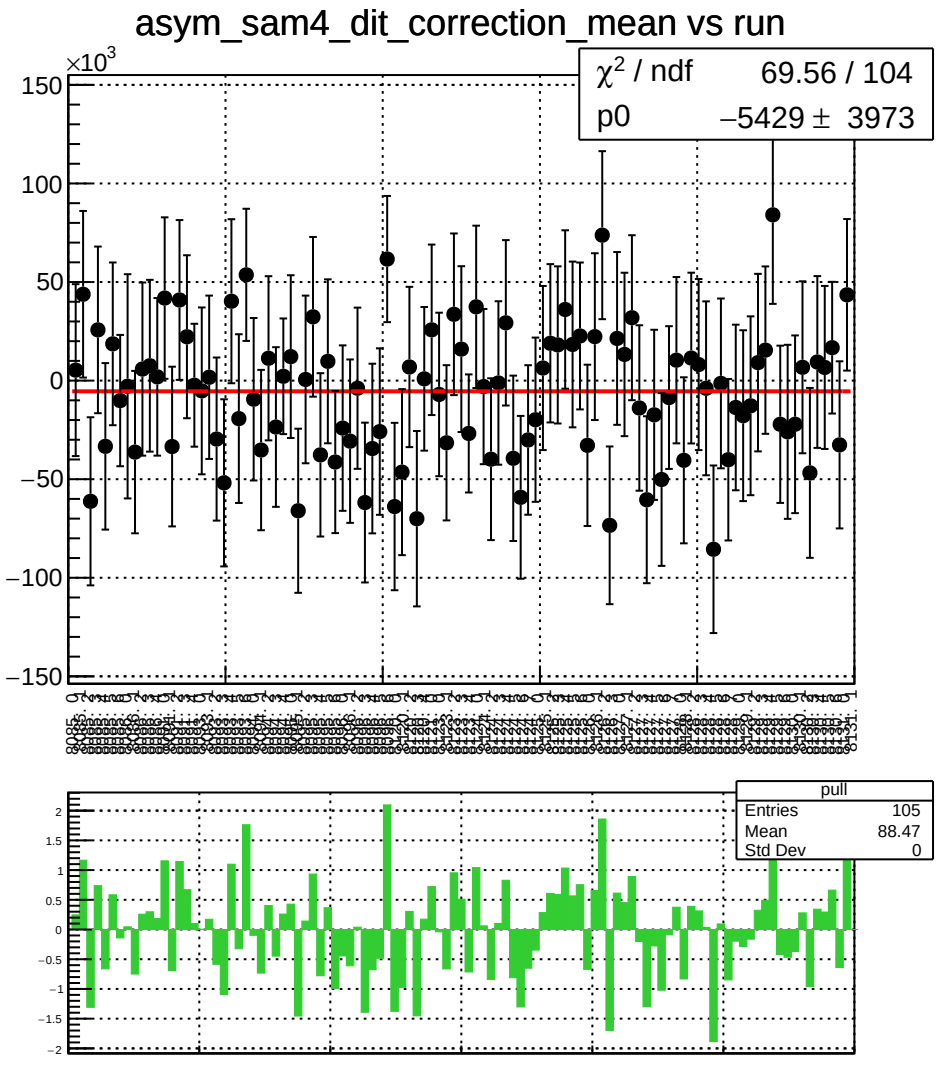
2
4
6
8

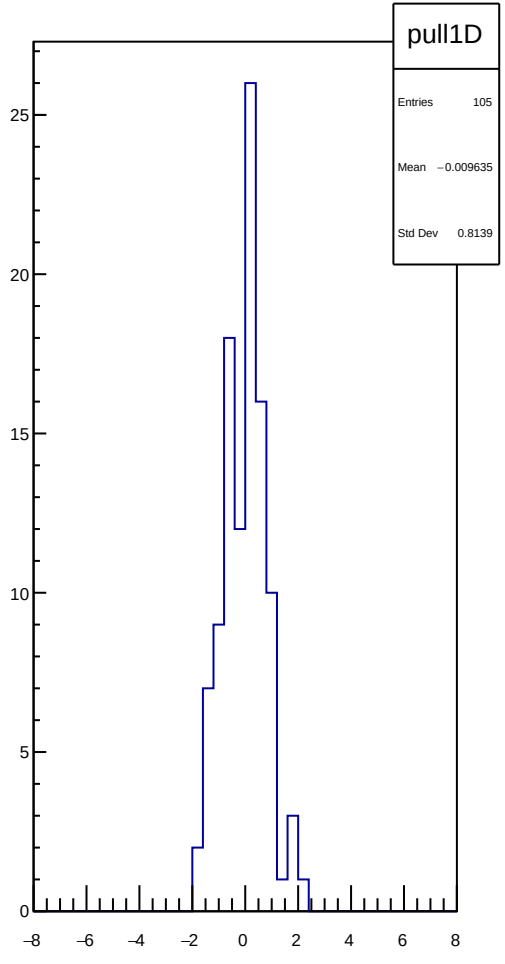

asym_sam4_eigen_cor_correction_rms vs run
$\chi^2$ / ndf 3745 / 105
p0 3918 ± 2.757
5500
5000
4500
4000
3500

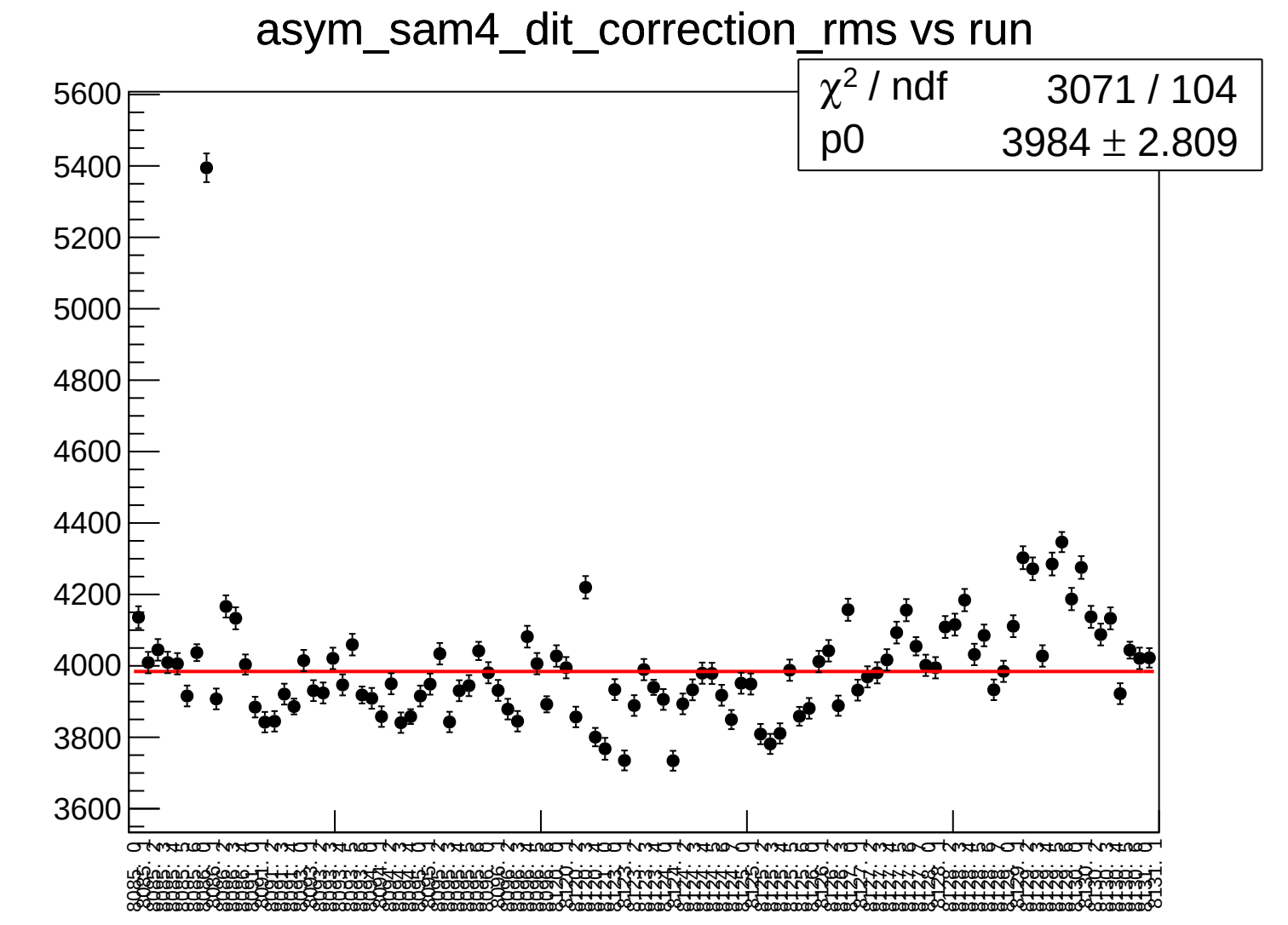

dit_asym_sam4_mean vs run
χ² / ndf 92.54 / 104
p0 141.9 ± 314.8
15000
10000
5000
0
−5000
−10000
pull
Entries 105
Mean −796.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

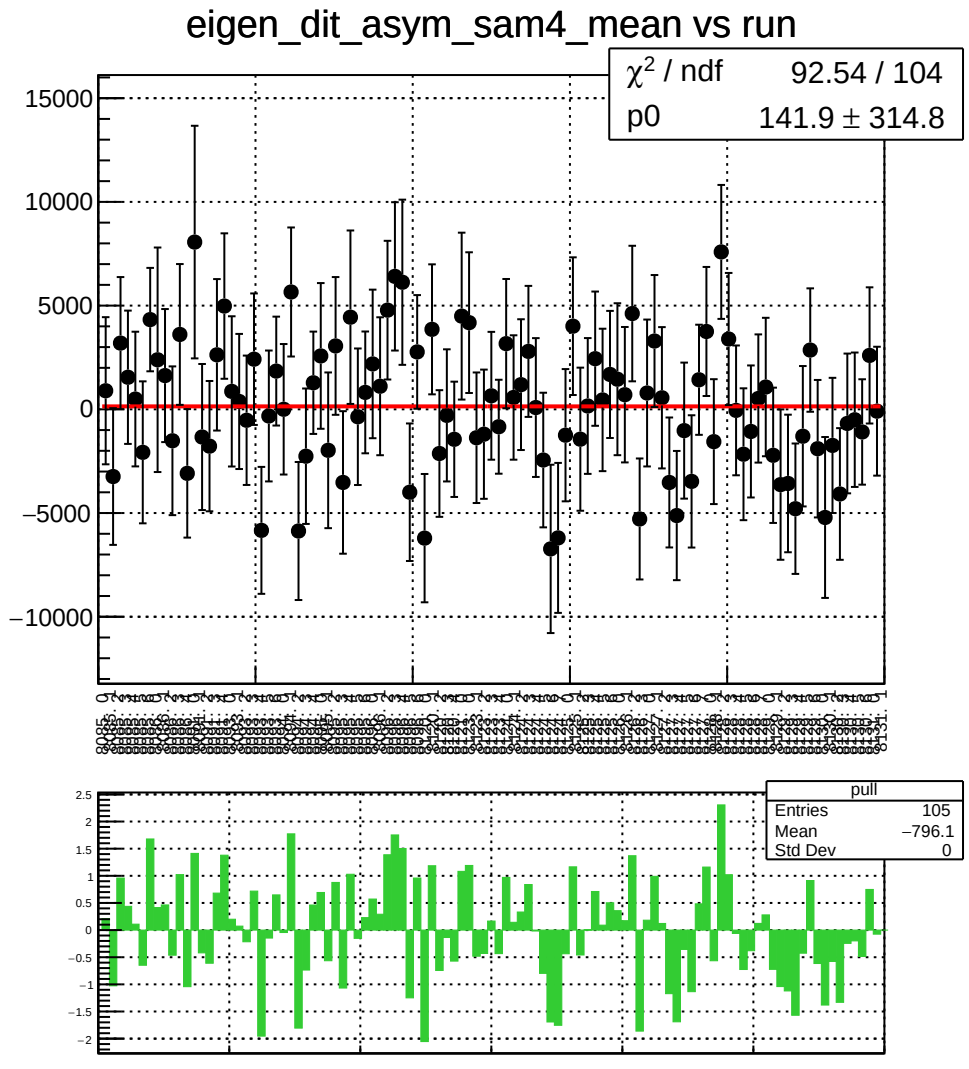

pull1D
Entries 105
Mean 0.006372
Std Dev 0.9388
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

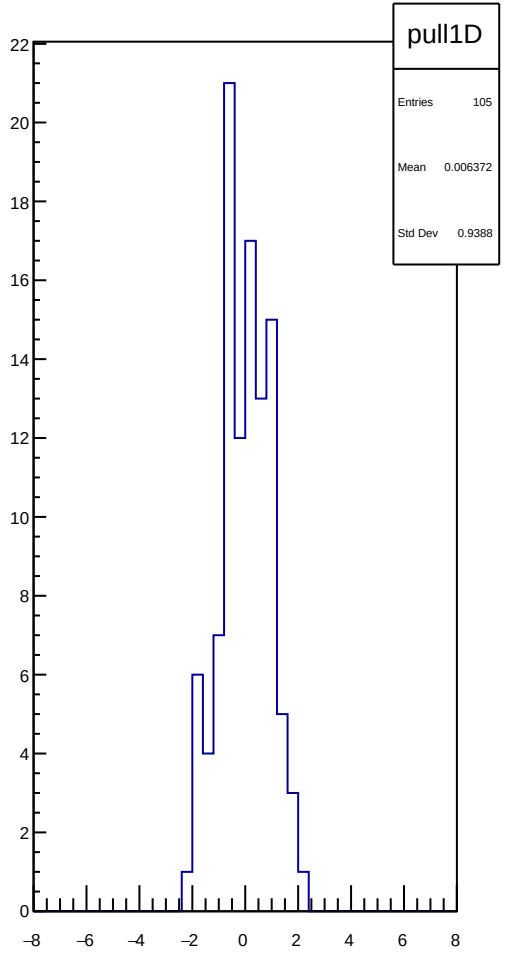

dit_asym_sam4_rms vs run
χ² / ndf 1.573e+04 / 104
p0 314.7 ± 0.2226
550
500
450
400
350
300

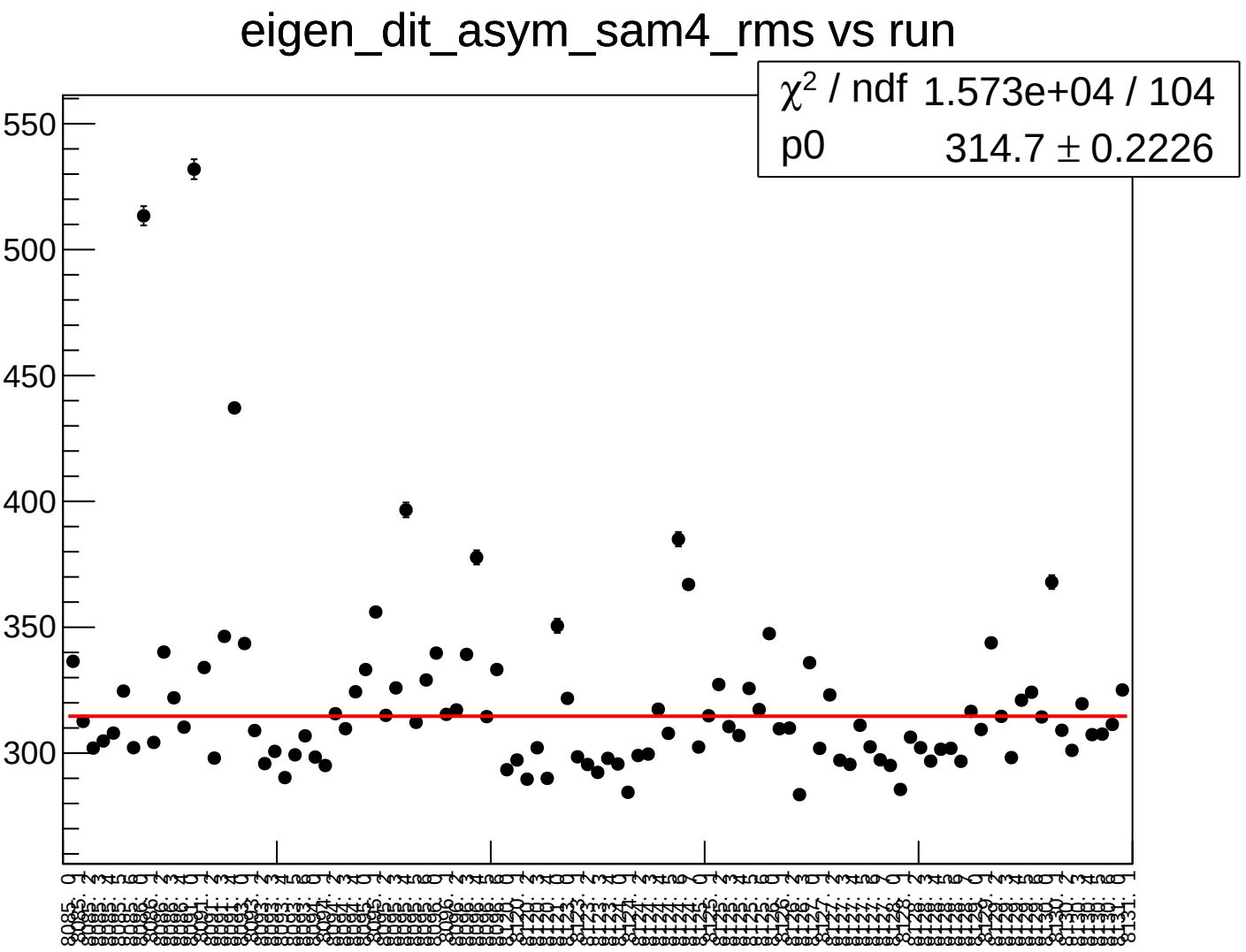

asym_sam4_dit_correction_mean vs run
×10^3
χ² / ndf 69.56 / 104
p0 −5429 ± 3973
150
100
50
0
−50
−100
−150
pull
Entries 105
Mean 88.47
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

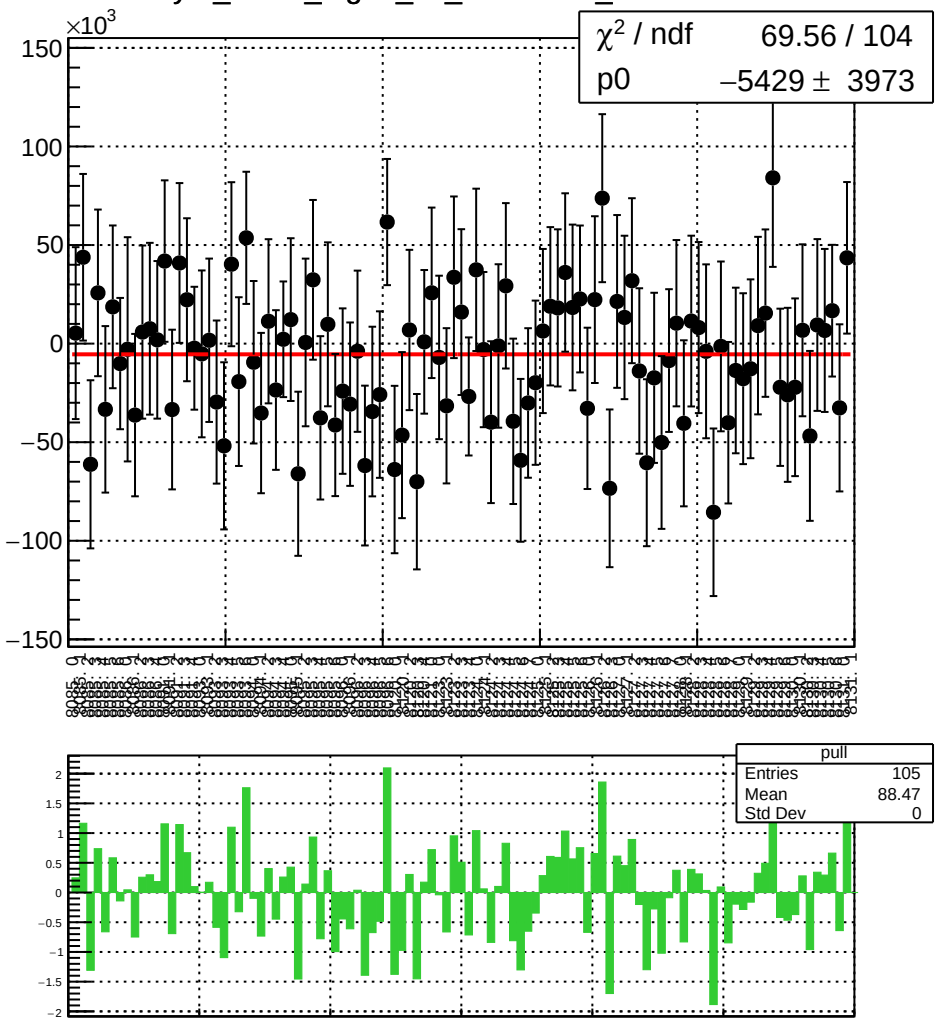

pull1D
Entries 105
Mean −0.009635
Std Dev 0.8139
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

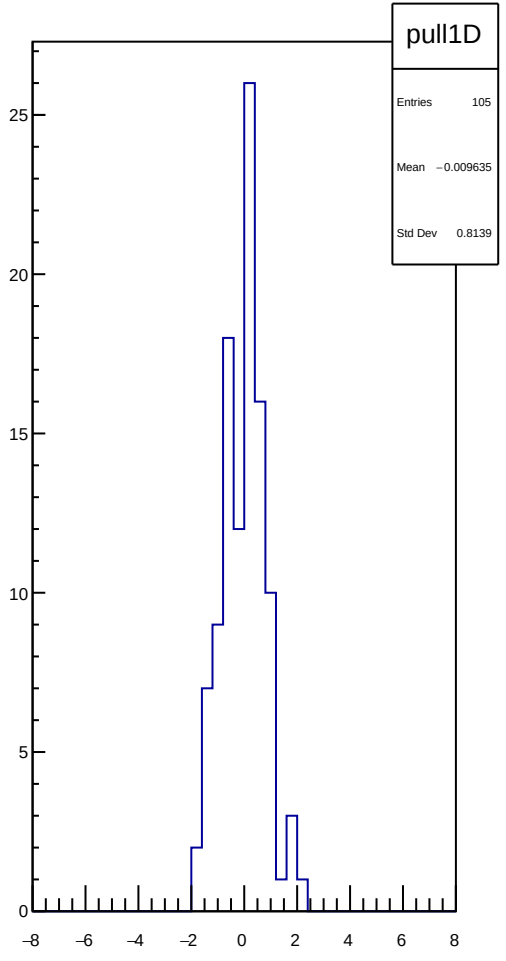

asym_sam4_dit_correction_rms vs run
χ² / ndf 3071 / 104
p0 3984 ± 2.809
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600


eigen_dit_asym_sam4_mean vs run
χ² / ndf 92.54 / 104
p0 141.9 ± 314.8
15000
10000
5000
0
−5000
−10000
pull
Entries 105
Mean −796.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 105
Mean 0.006372
Std Dev 0.9388
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_sam4_rms vs run
$\chi^2$ / ndf 1.573e+04 / 104
p0 314.7 ± 0.2226
550
500
450
400
350
300


asym_sam4_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 69.56 / 104
p0 −5429 ± 3973
150
100
50
0
−50
−100
−150
pull
Entries 105
Mean 88.47
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 105
Mean −0.009635
Std Dev 0.8139
25
20
15
10
5
0
−8
−6
−4
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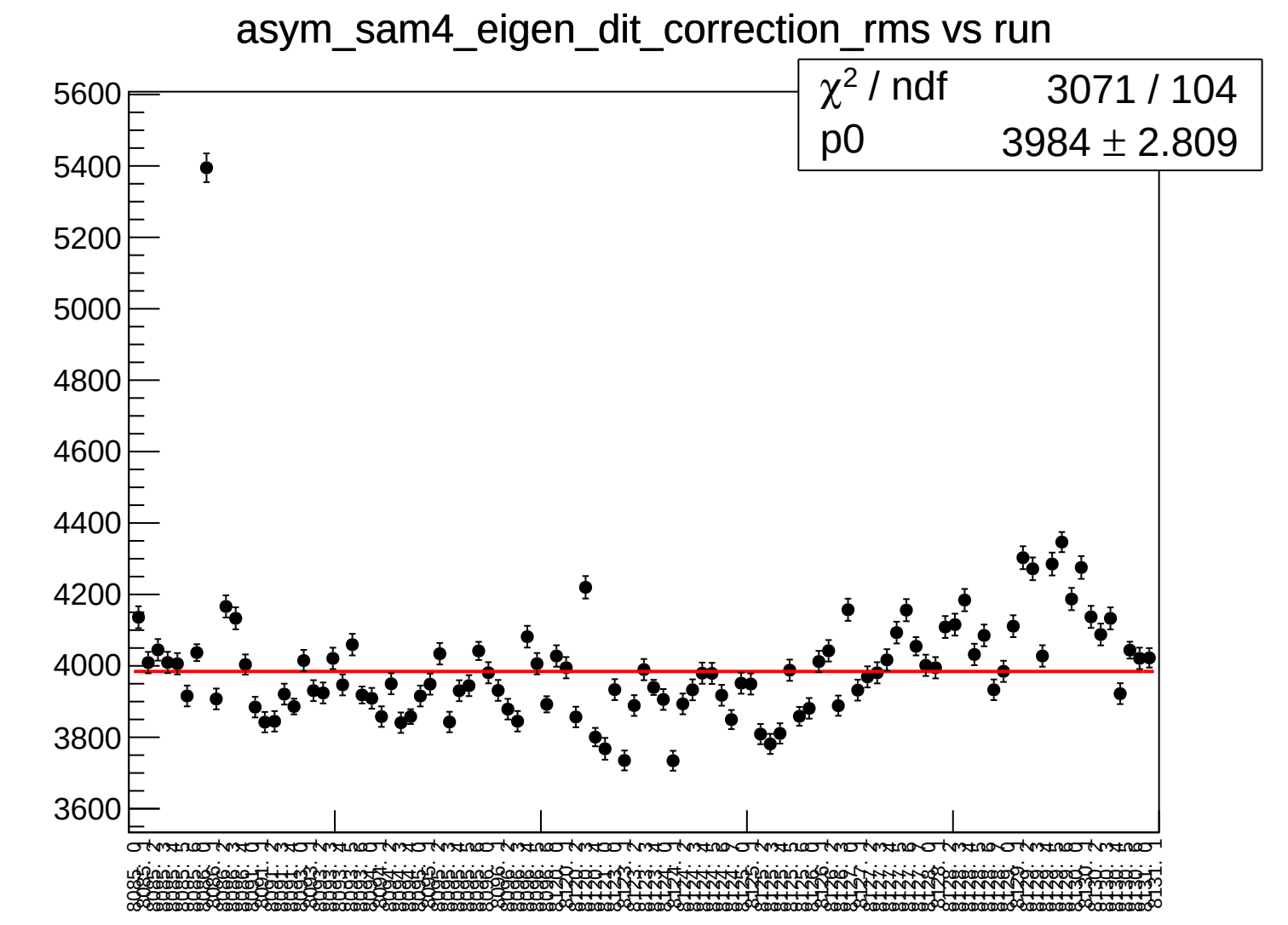
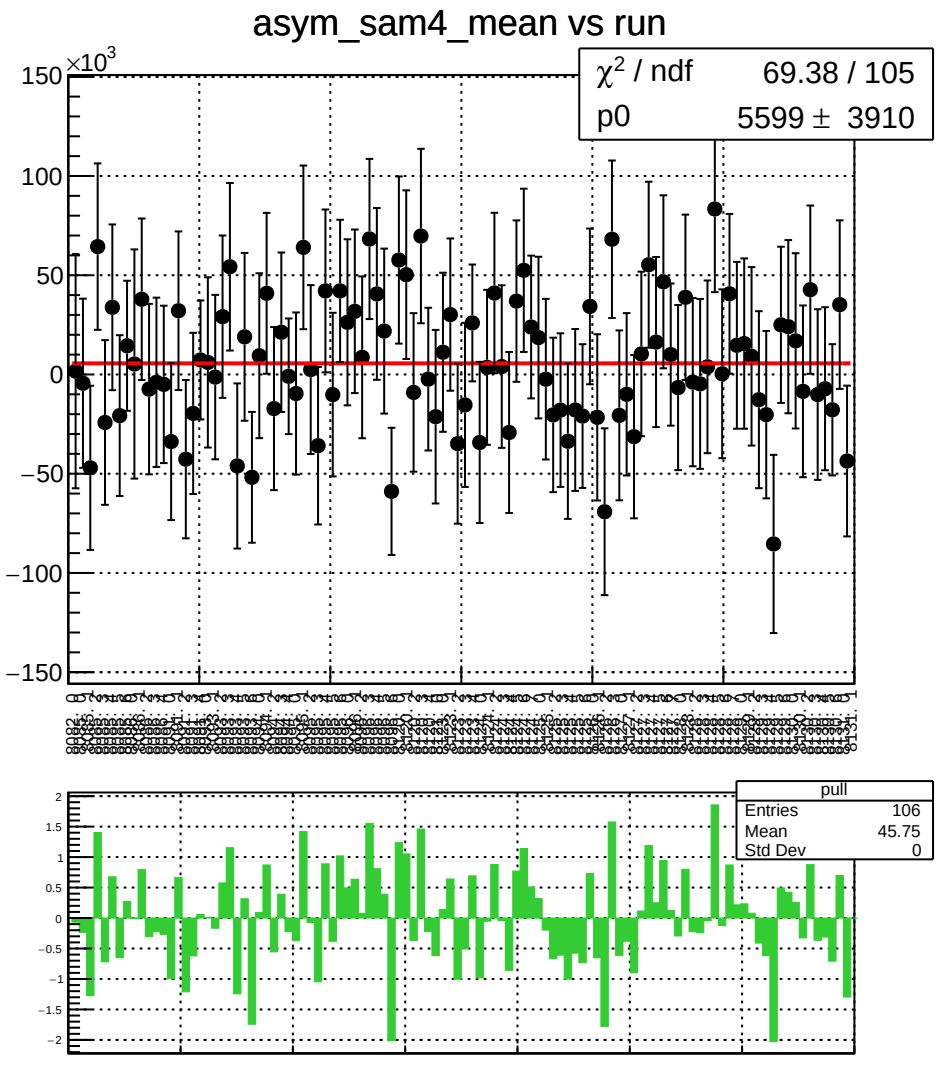
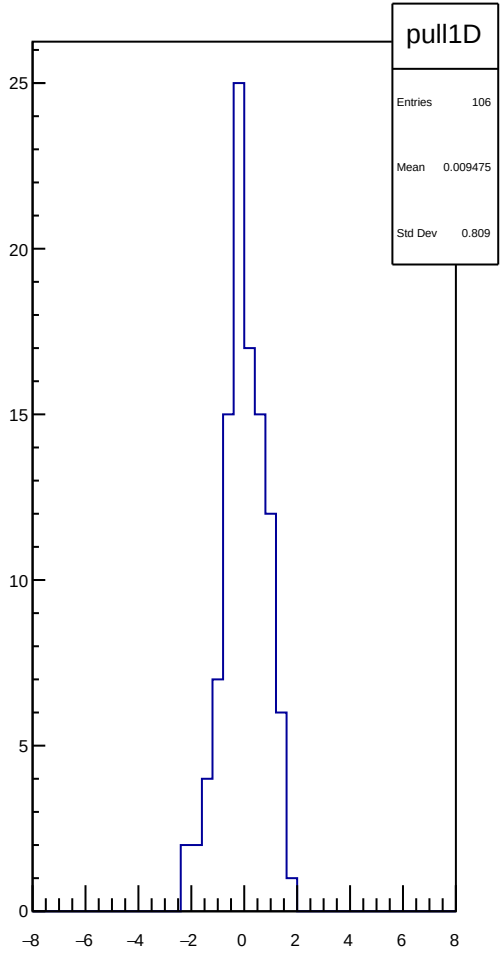
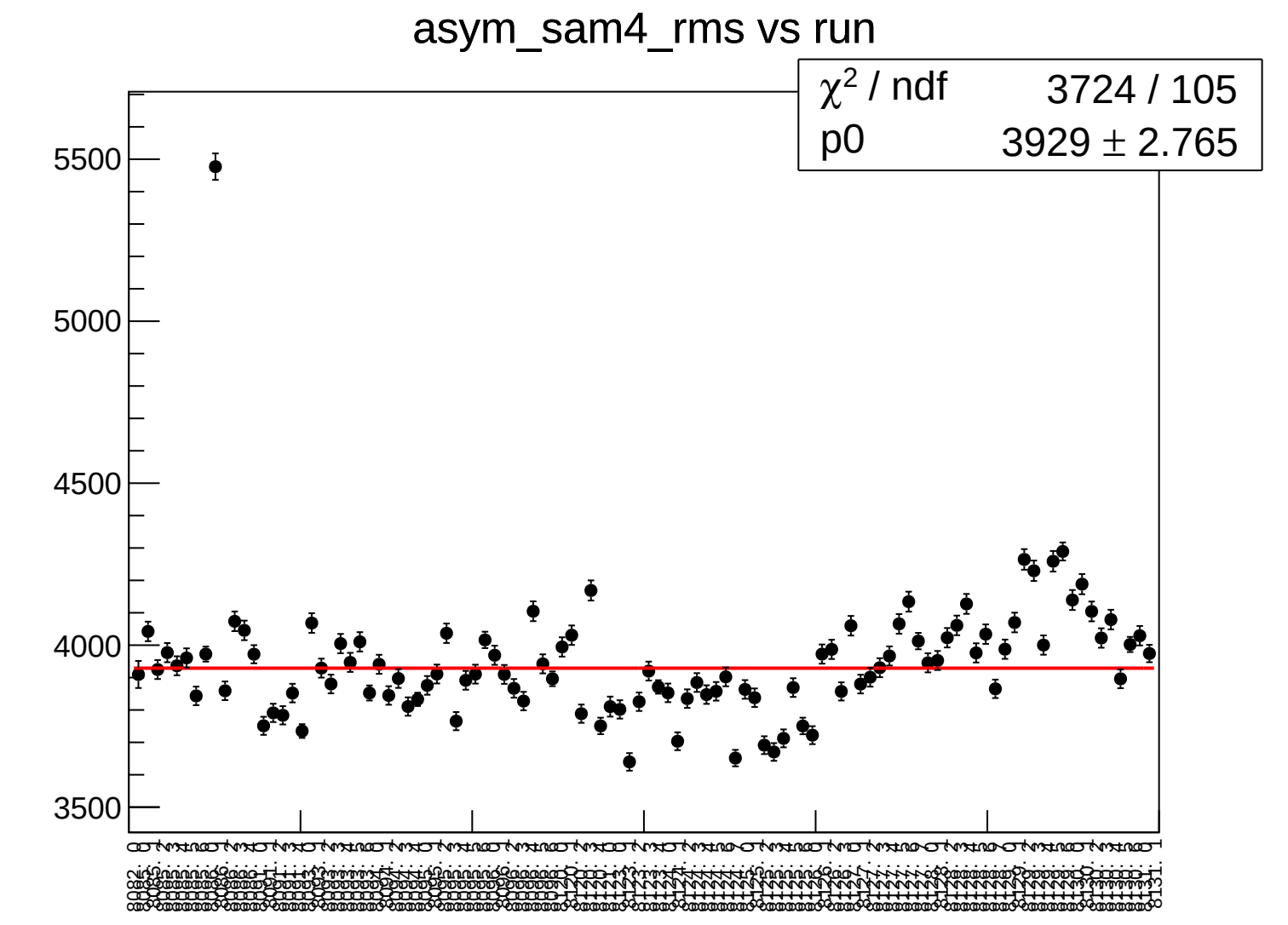
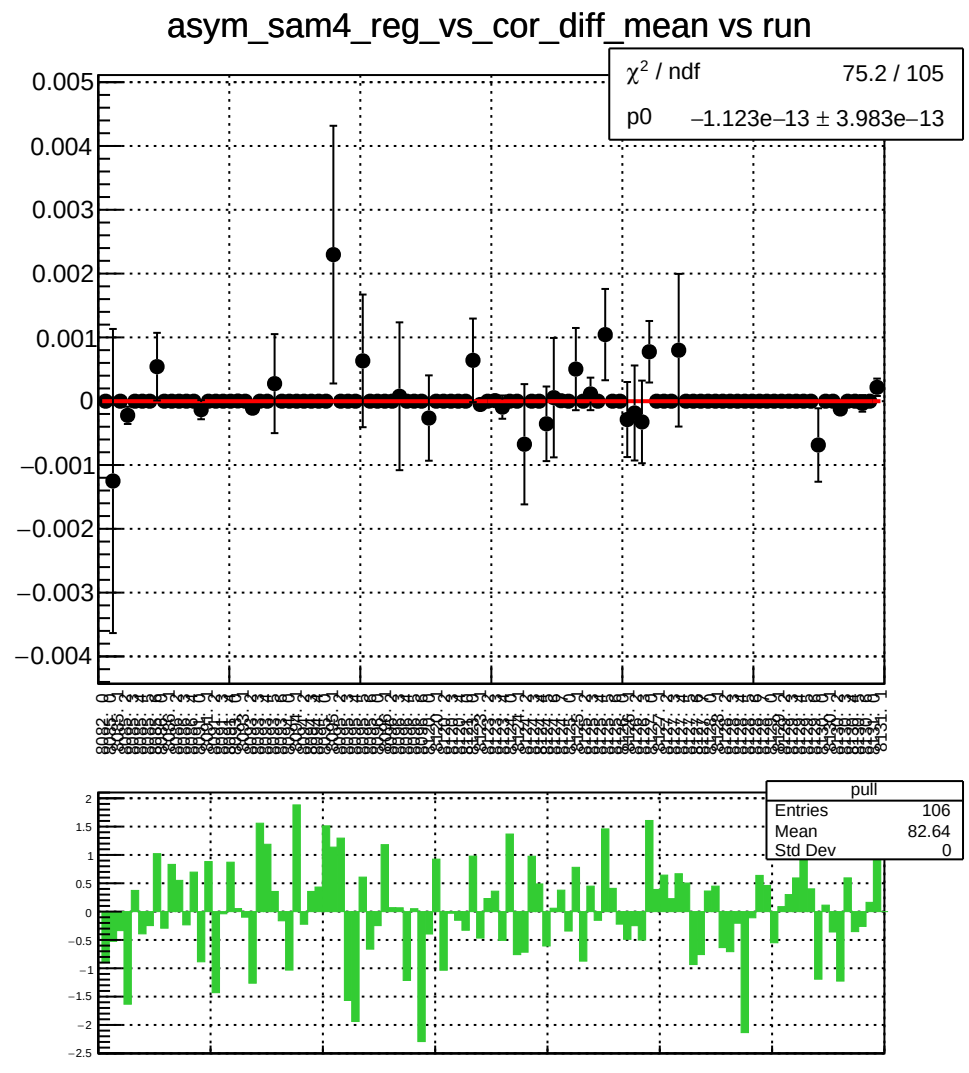
2
4
6
8

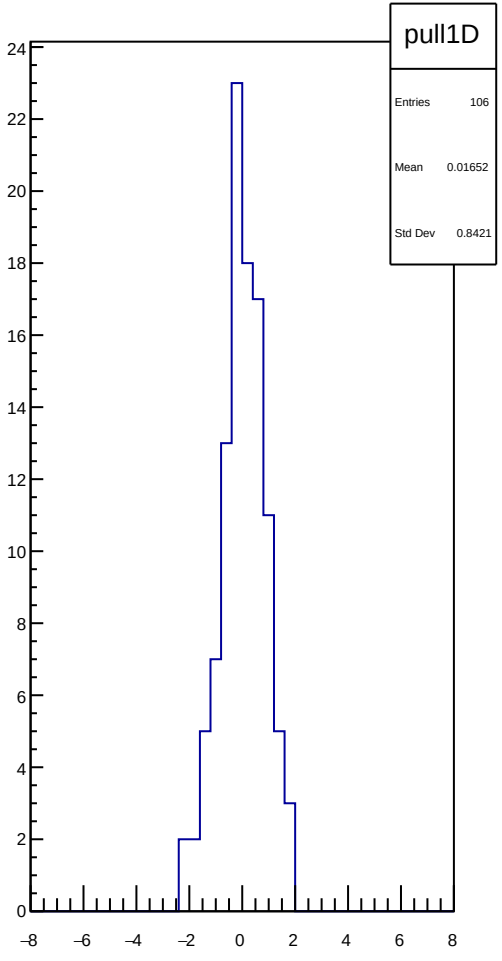

asym_sam4_eigen_dit_correction_rms vs run
χ² / ndf 3071 / 104
p0 3984 ± 2.809
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600

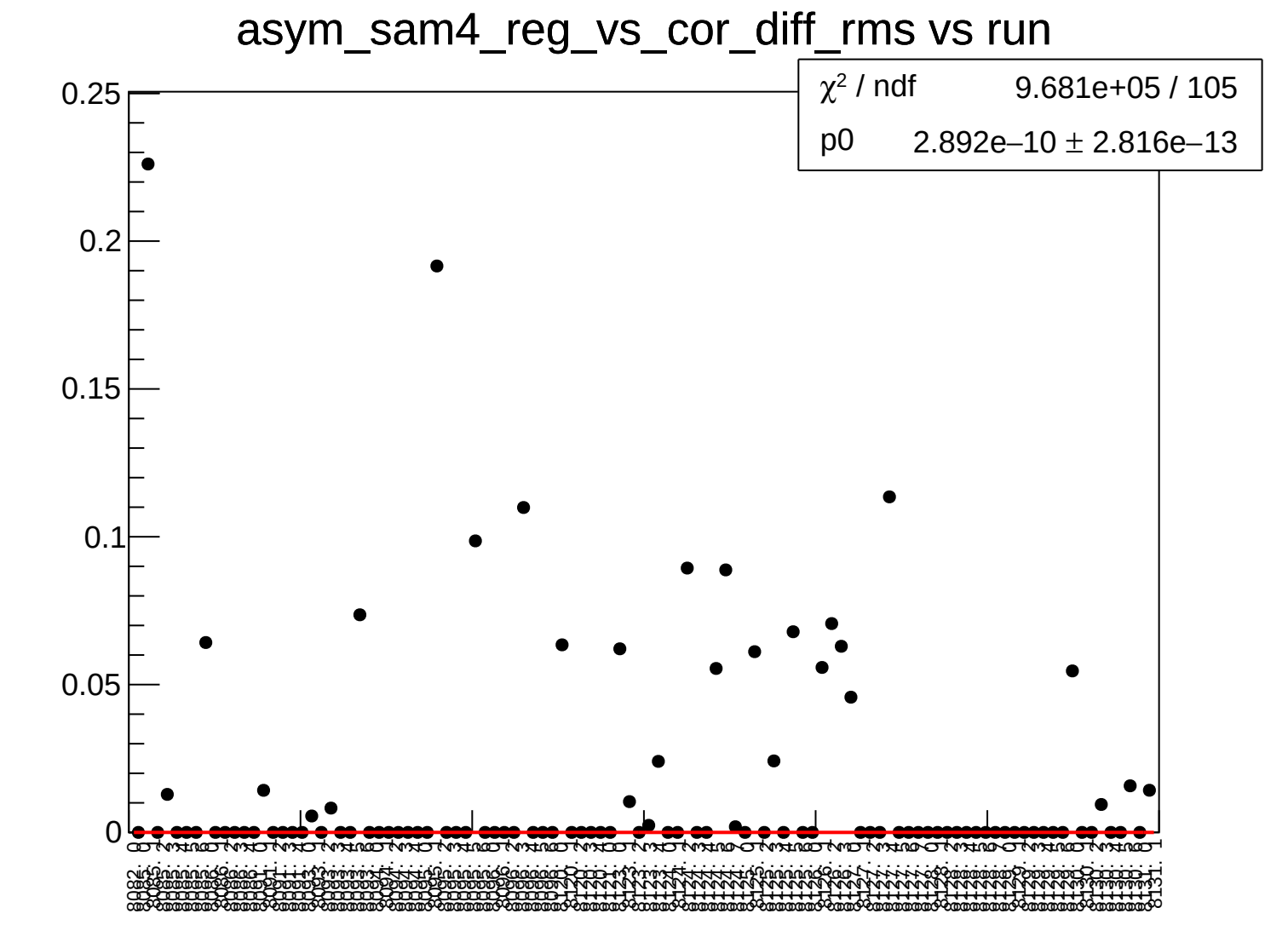

asym_sam4_mean vs run
×10^3
χ^2 / ndf 69.38 / 105
p0 5599 ± 3910
150
100
50
0
−50
−100
−150
pull
Entries 106
Mean 45.75
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

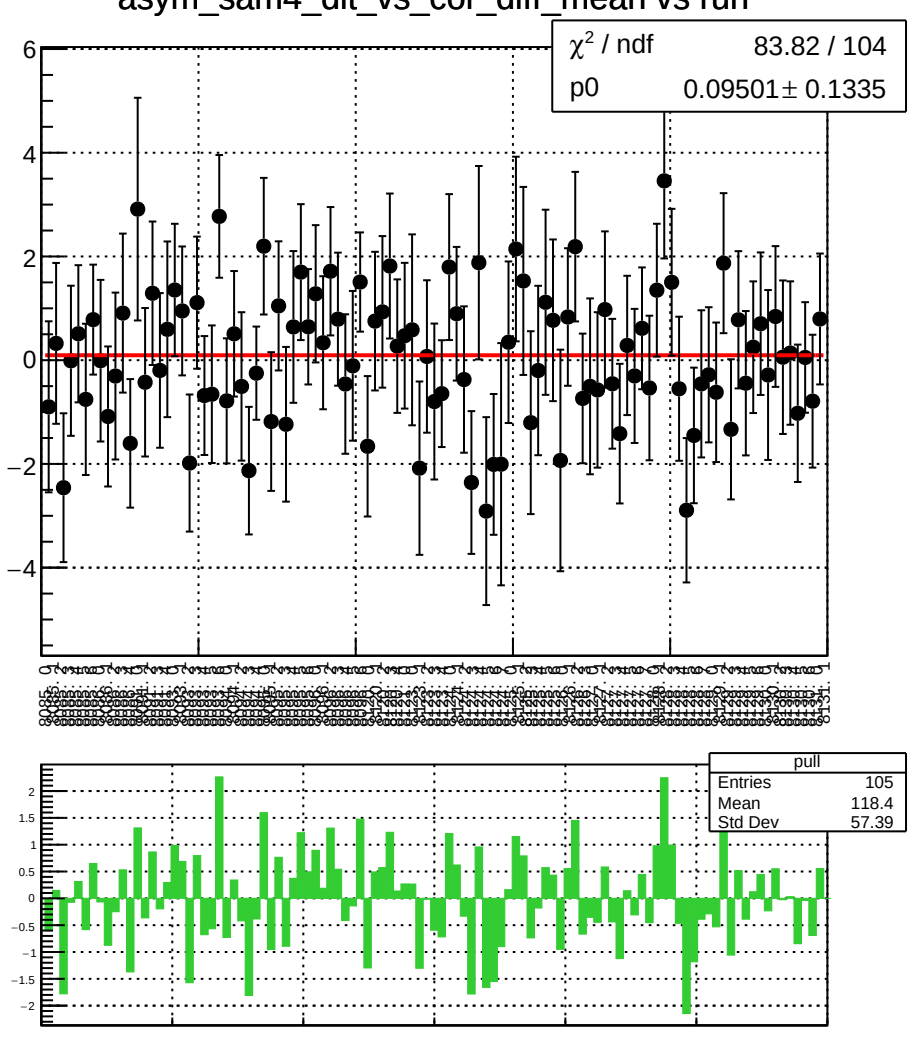

pull1D
Entries 106
Mean 0.009475
Std Dev 0.809
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

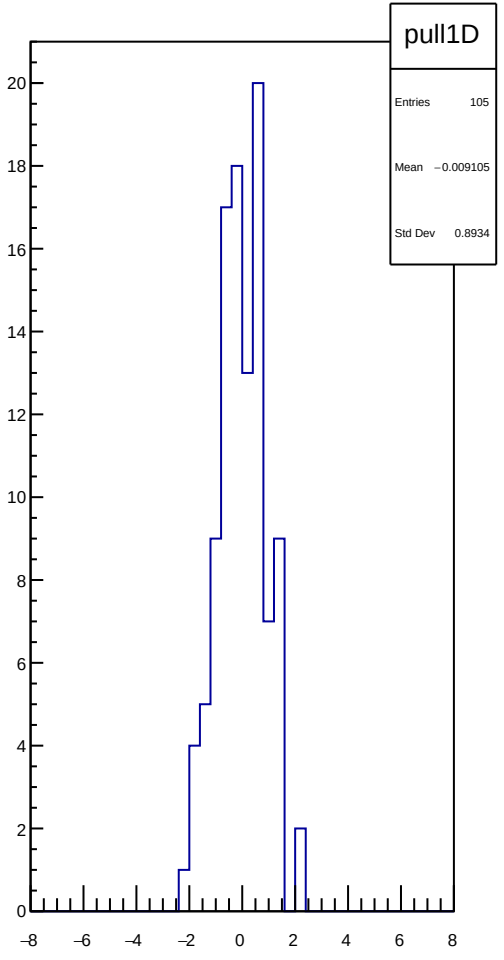

asym_sam4_rms vs run
$\chi^2$ / ndf 3724 / 105
p0 3929 ± 2.765
5500
5000
4500
4000
3500

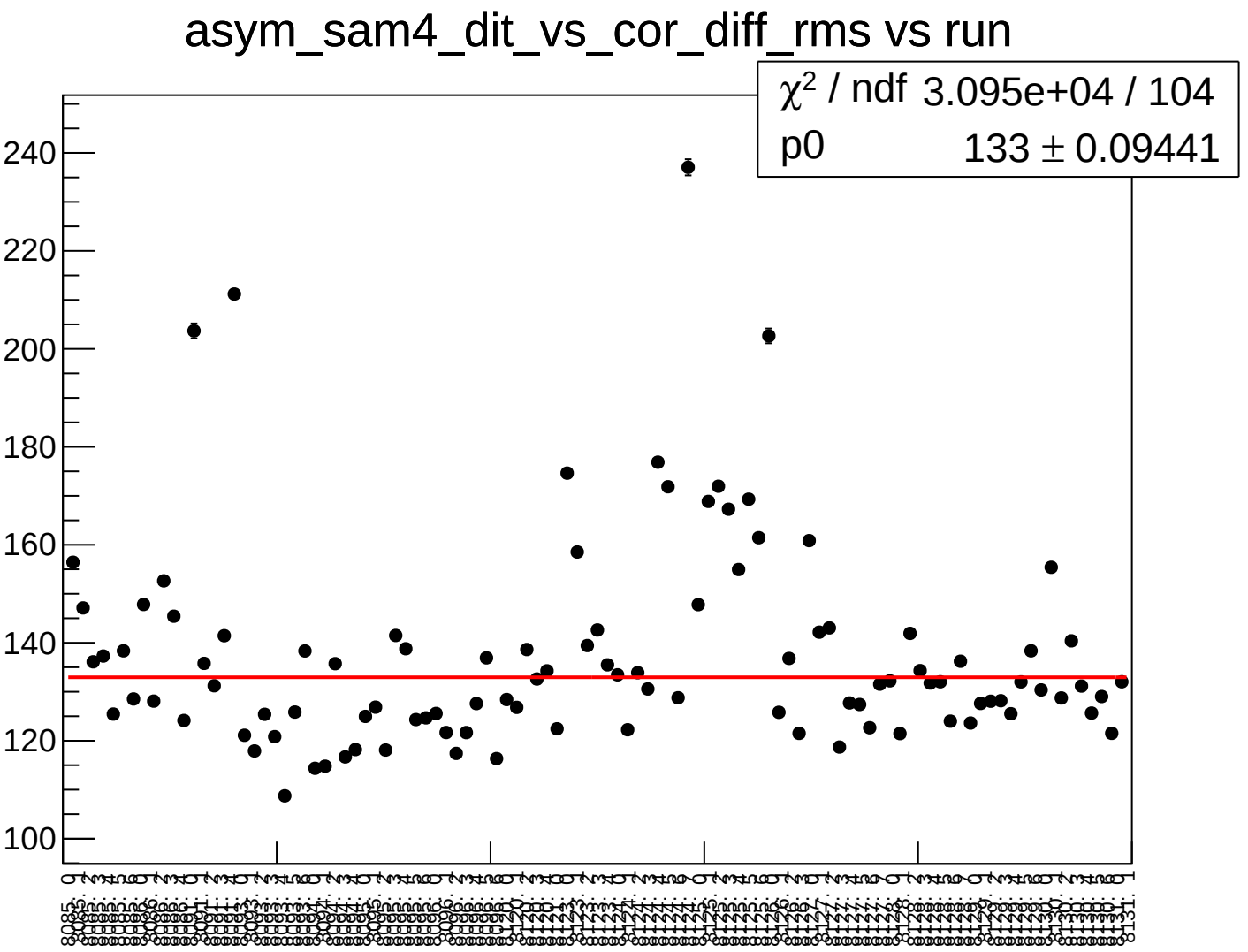

asym_sam4_reg_vs_cor_diff_mean vs run
χ² / ndf 75.2 / 105
p0 −1.123e−13 ± 3.983e−13
pull
Entries 106
Mean 82.64
Std Dev 0

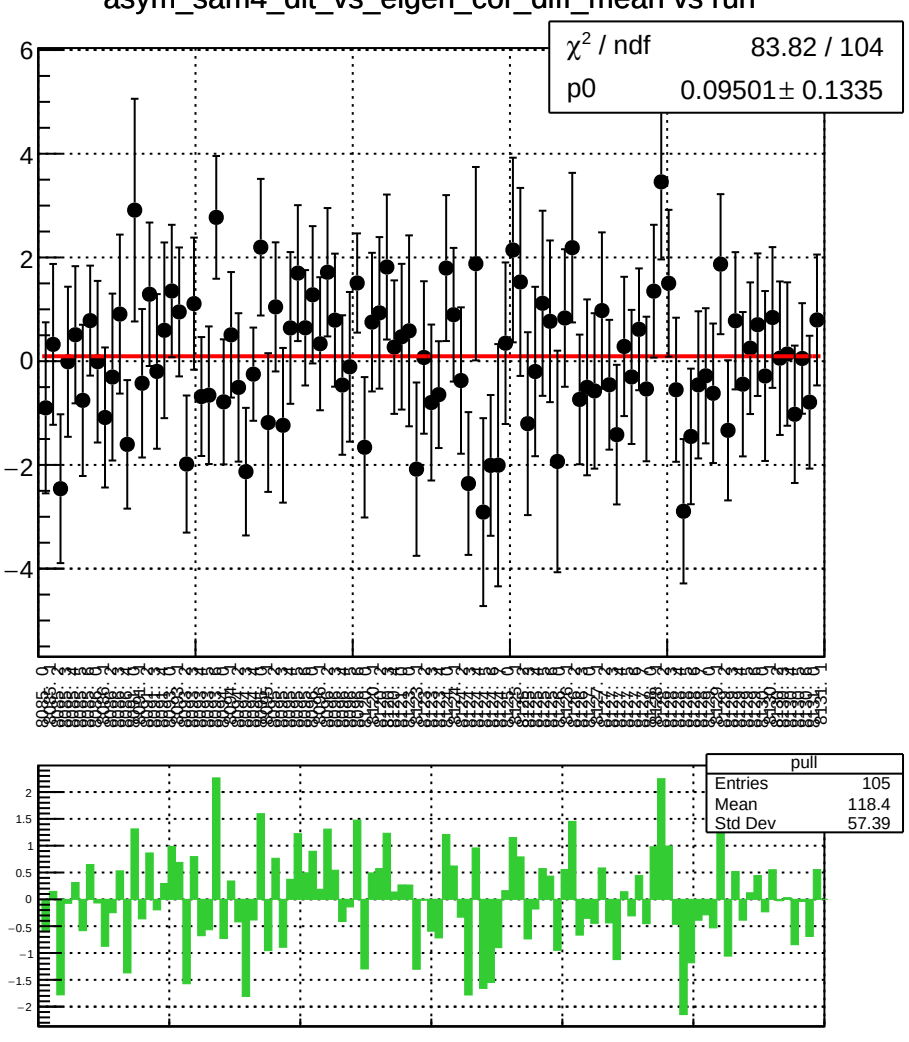

pull1D
Entries 106
Mean 0.01652
Std Dev 0.8421

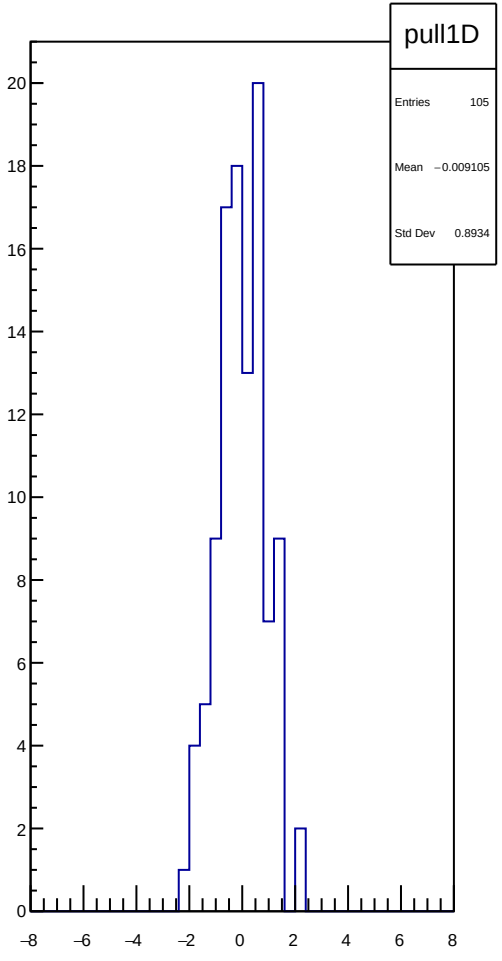

asym_sam4_reg_vs_cor_diff_rms vs run
χ² / ndf 9.681e+05 / 105
p0 2.892e−10 ± 2.816e−13
0.25
0.2
0.15
0.1
0.05
0

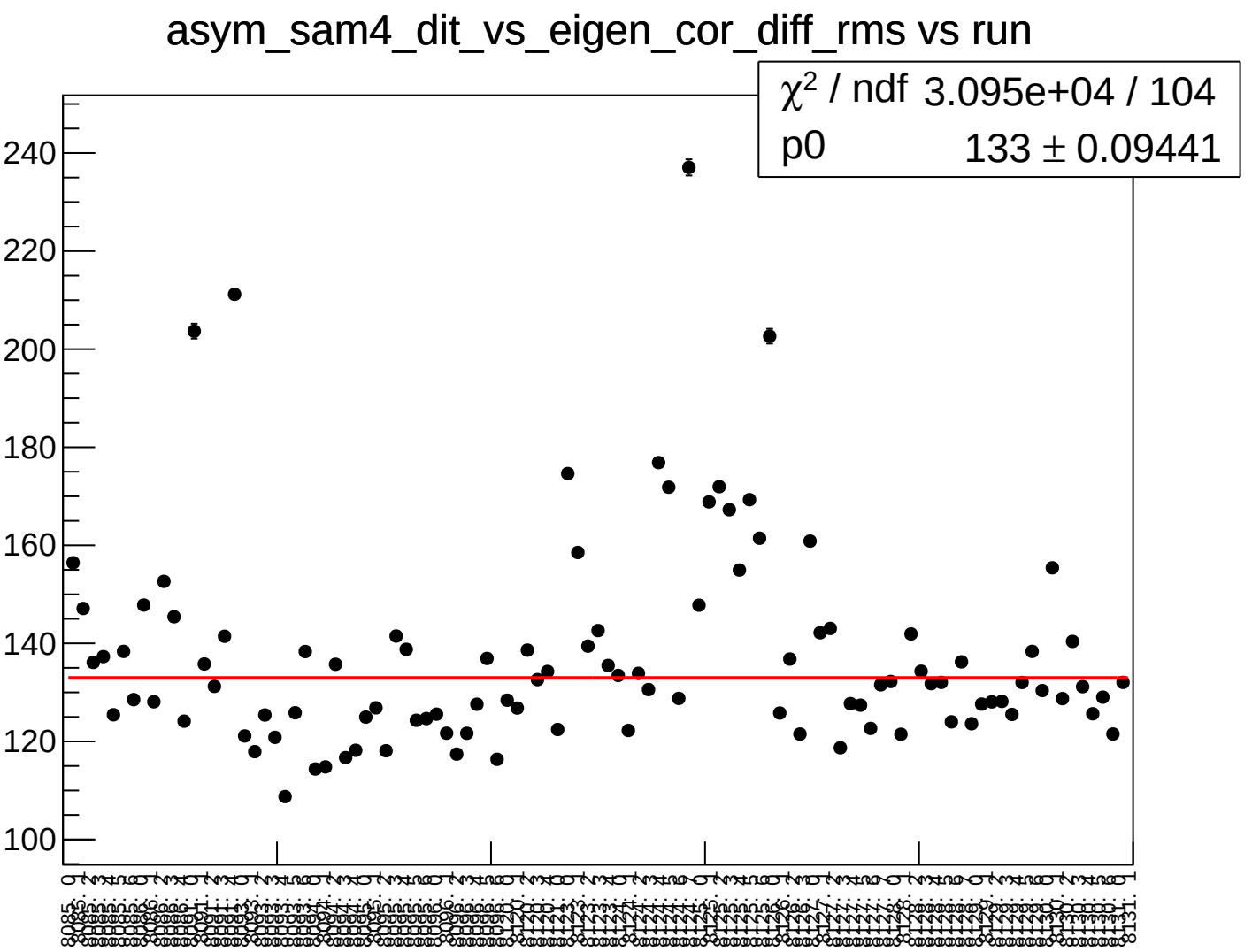

asym_sam4_dit_vs_cor_diff_mean vs run
χ² / ndf 83.82 / 104
p0 0.09501 ± 0.1335
pull
Entries 105
Mean 118.4
Std Dev 57.39

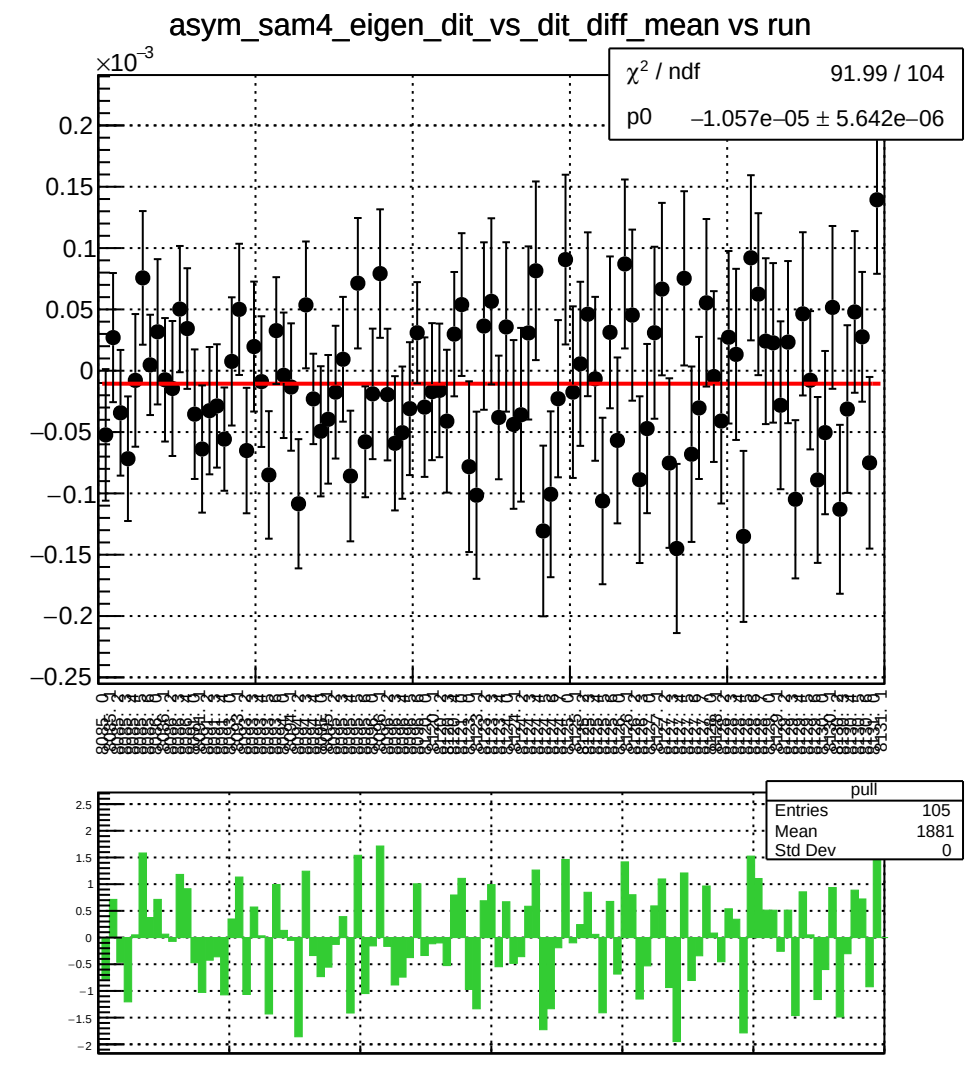

pull1D
Entries 105
Mean −0.009105
Std Dev 0.8934

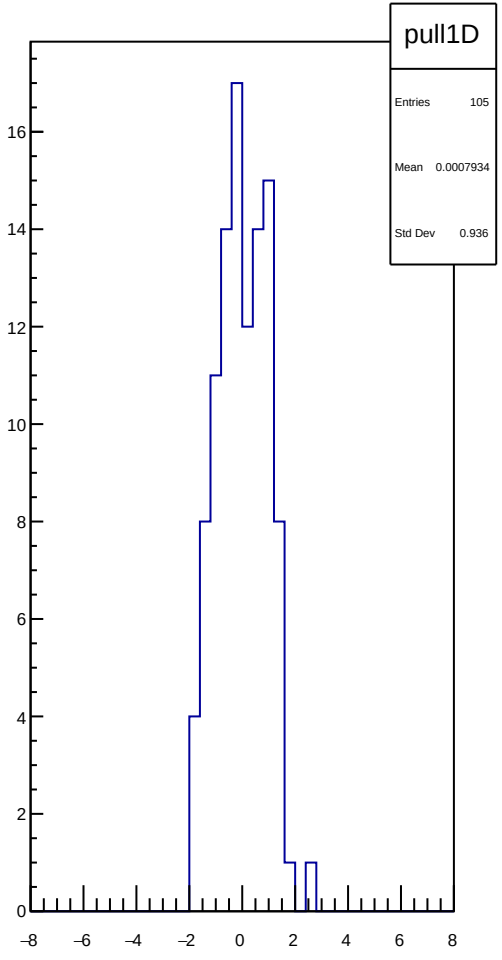

asym_sam4_dit_vs_cor_diff_rms vs run
χ² / ndf 3.095e+04 / 104
p0 133 ± 0.09441
240
220
200
180
160
140
120
100

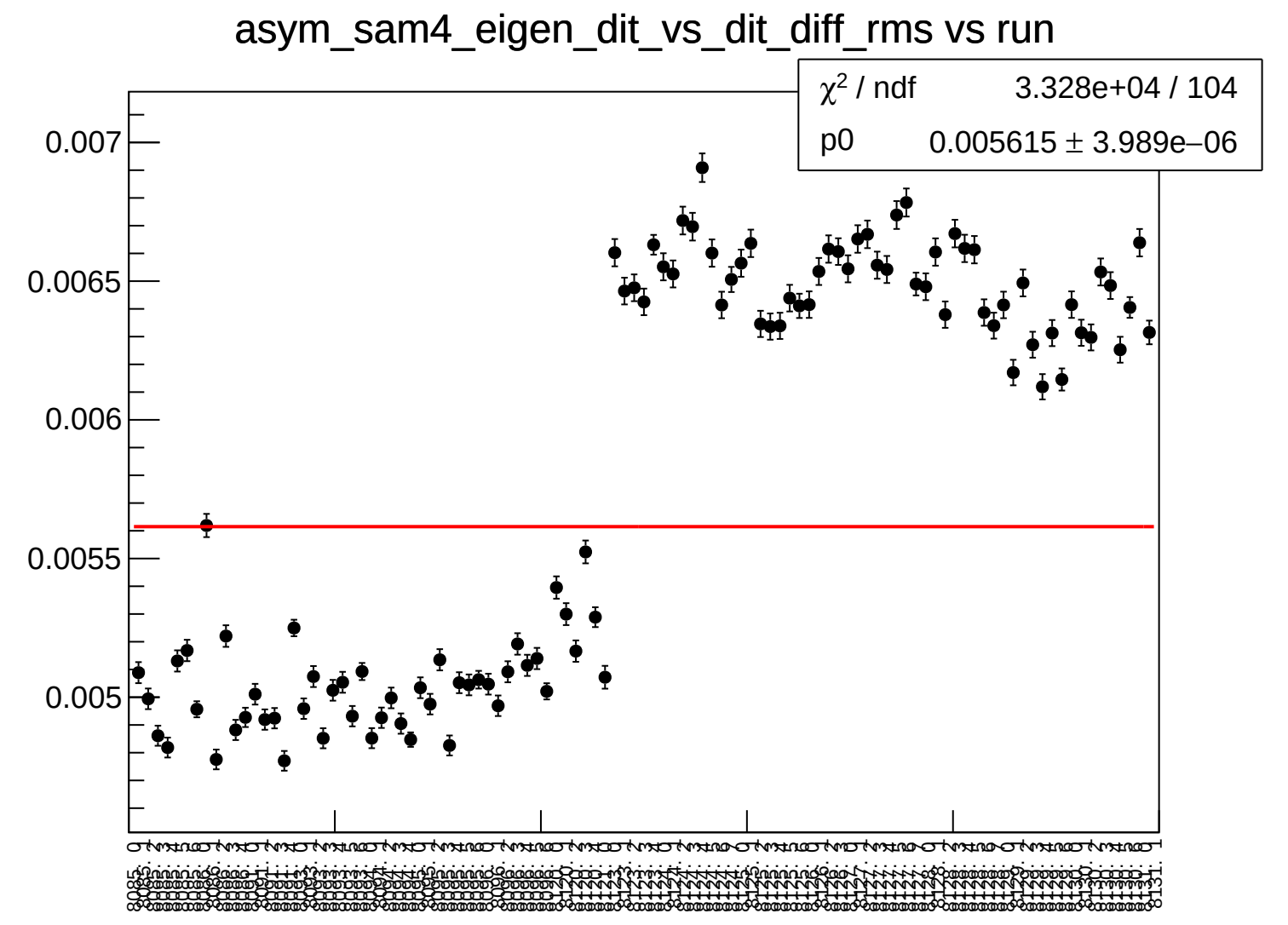

asym_sam4_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.82 / 104
p0 0.09501 ± 0.1335
pull
Entries 105
Mean 118.4
Std Dev 57.39

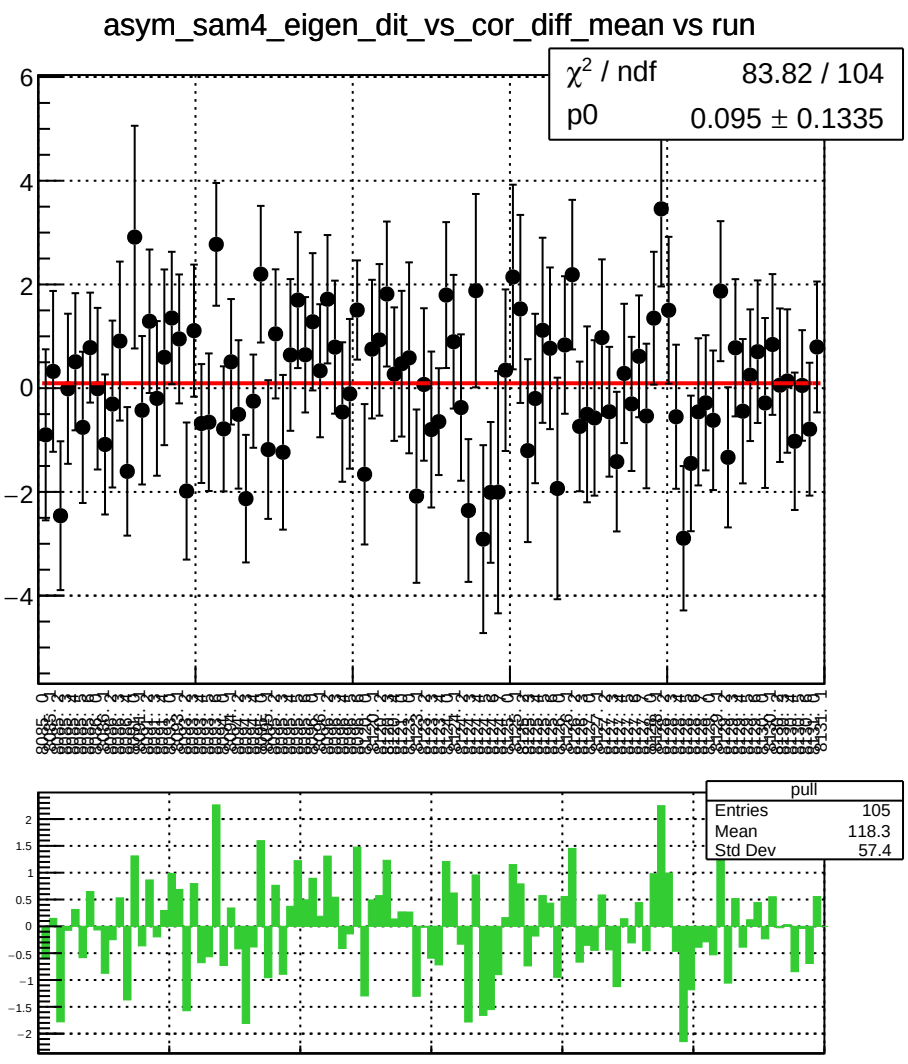

pull1D
Entries 105
Mean −0.009105
Std Dev 0.8934

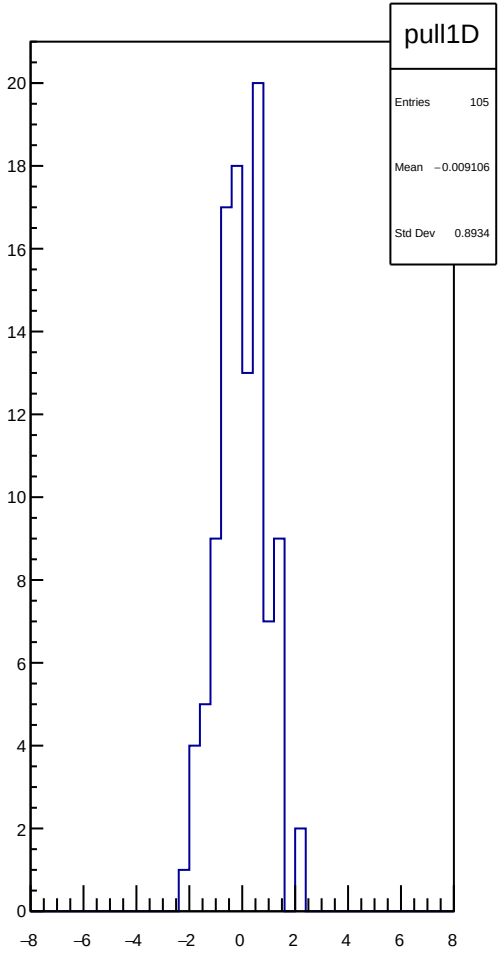

asym_sam4_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.095e+04 / 104
p0 133 ± 0.09441
240
220
200
180
160
140
120
100

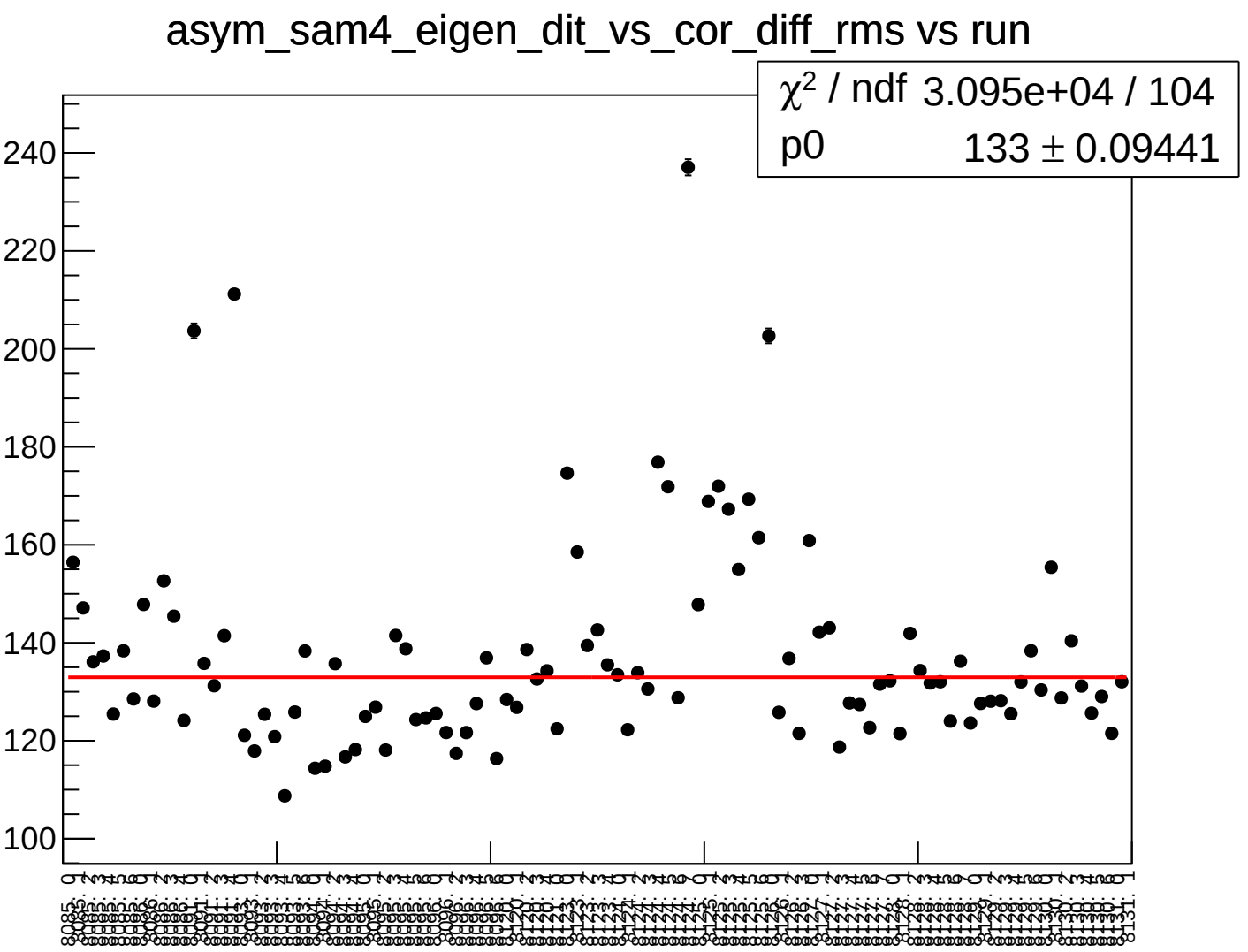

asym_sam4_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 91.99 / 104
p0 −1.057e−05 ± 5.642e−06
pull
Entries 105
Mean 1881
Std Dev 0

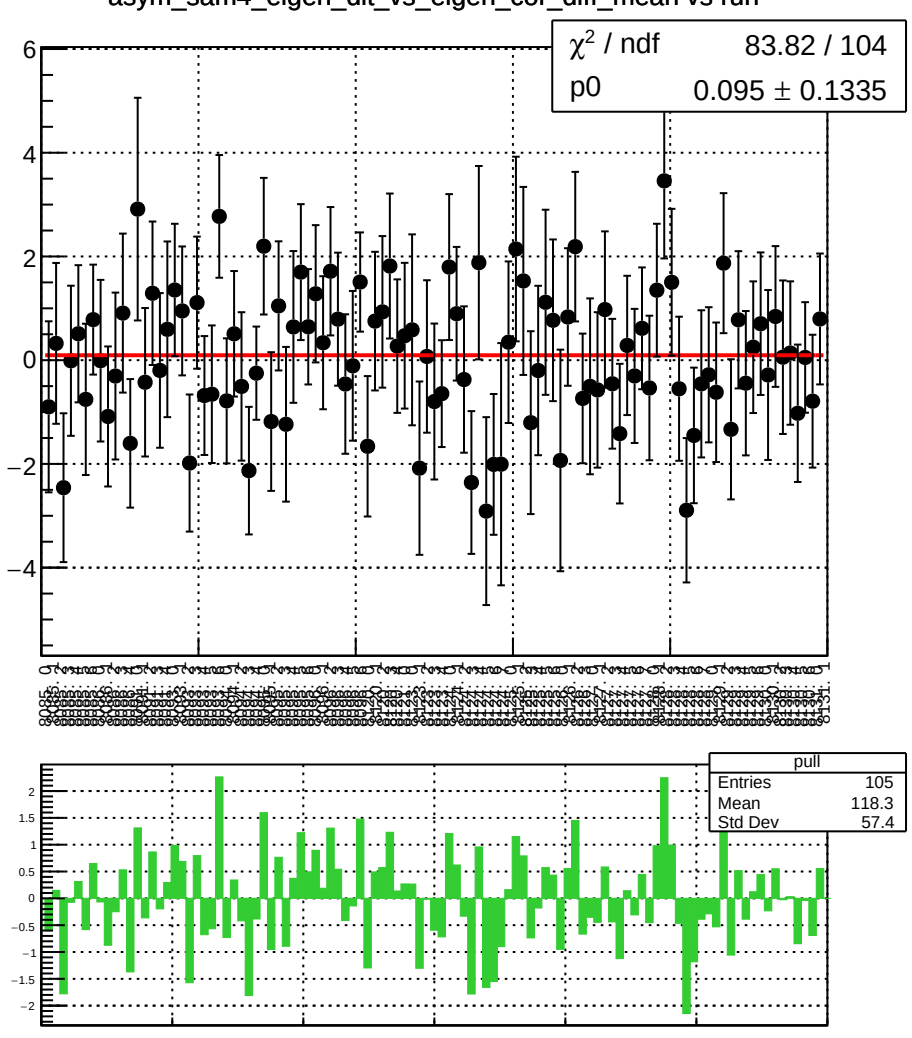

pull1D
Entries 105
Mean 0.0007934
Std Dev 0.936

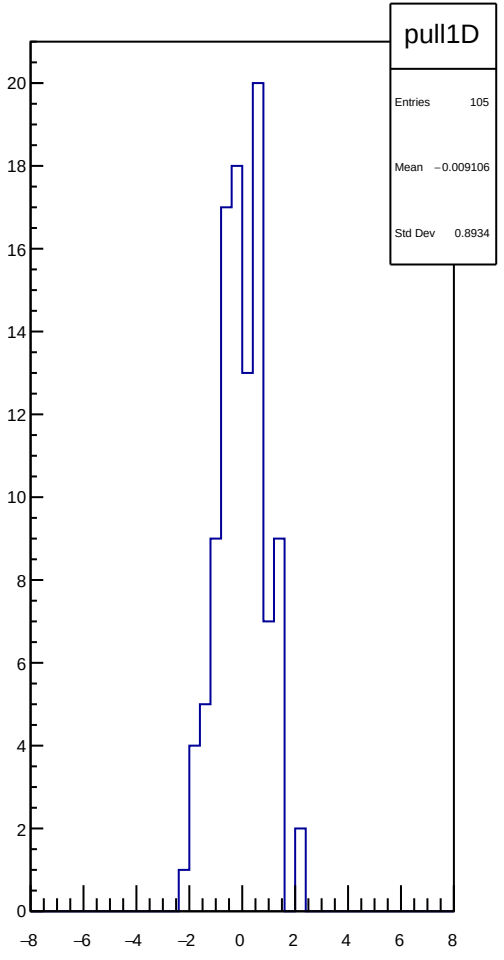

asym_sam4_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.328e+04 / 104
p0 0.005615 ± 3.989e−06
0.007
0.0065
0.006
0.0055
0.005

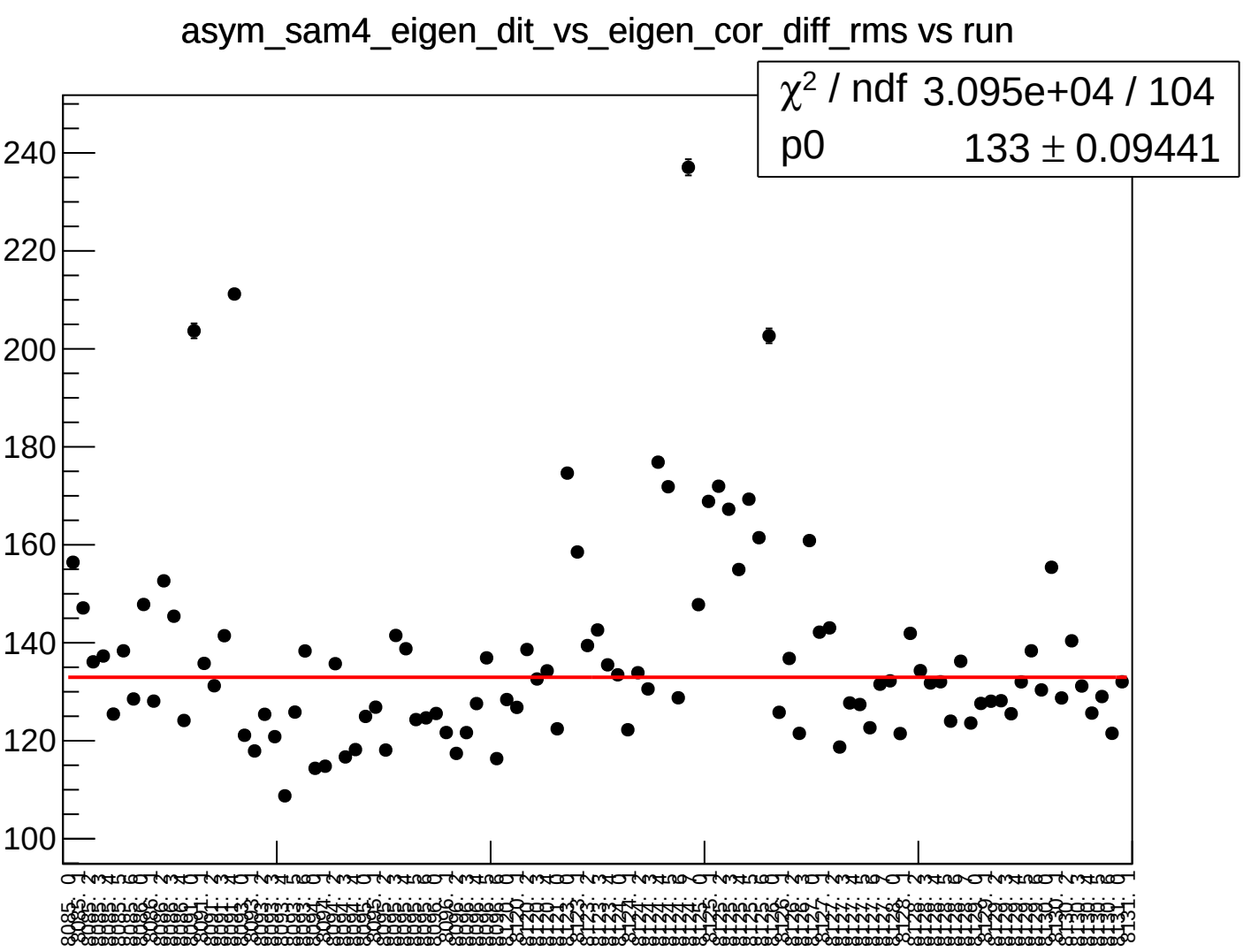

asym_sam4_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.82 / 104
p0 0.095 ± 0.1335
pull
Entries 105
Mean 118.3
Std Dev 57.4

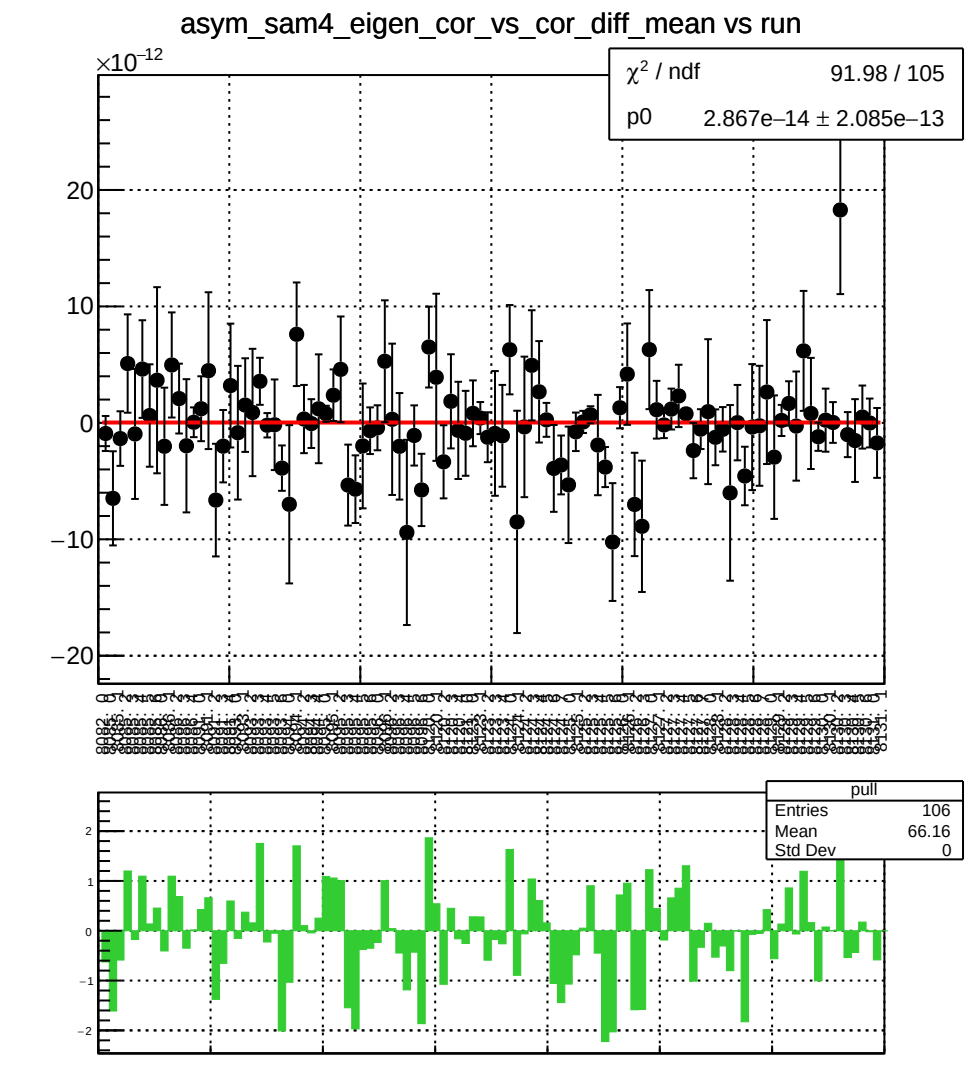

pull1D
Entries 105
Mean −0.009106
Std Dev 0.8934

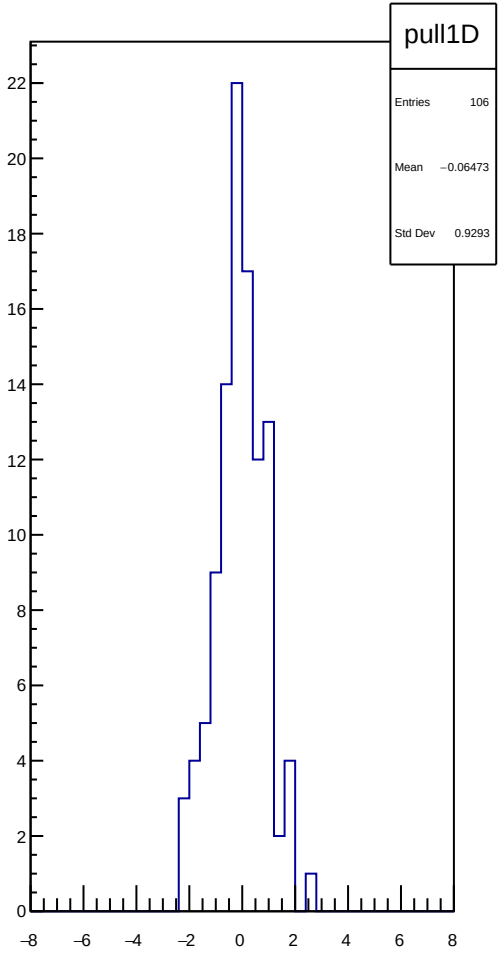

asym_sam4_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.095e+04 / 104
p0 133 ± 0.09441
240
220
200
180
160
140
120
100

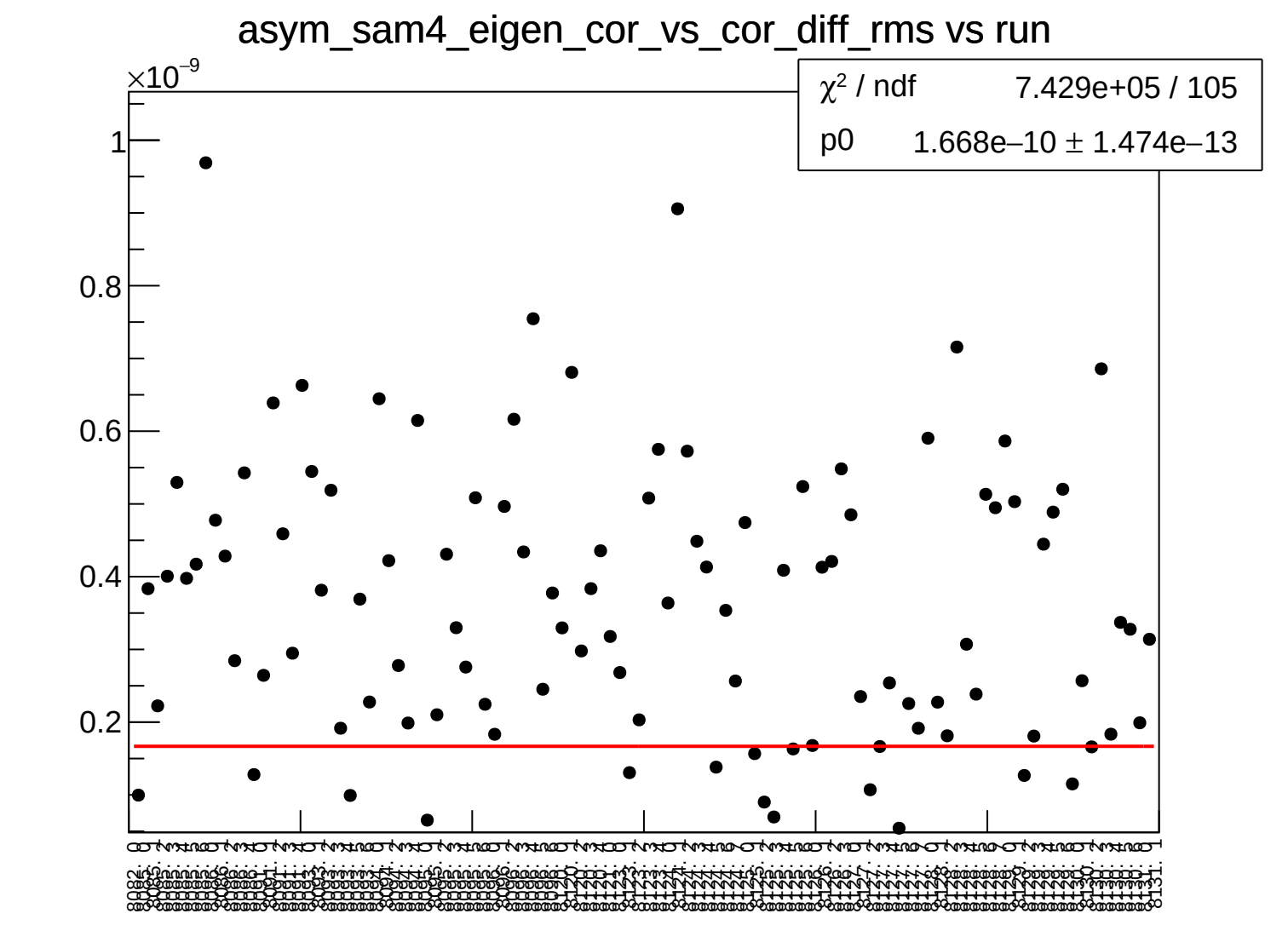

asym_sam4_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.82 / 104
p0 0.095 ± 0.1335
pull
Entries 105
Mean 118.3
Std Dev 57.4

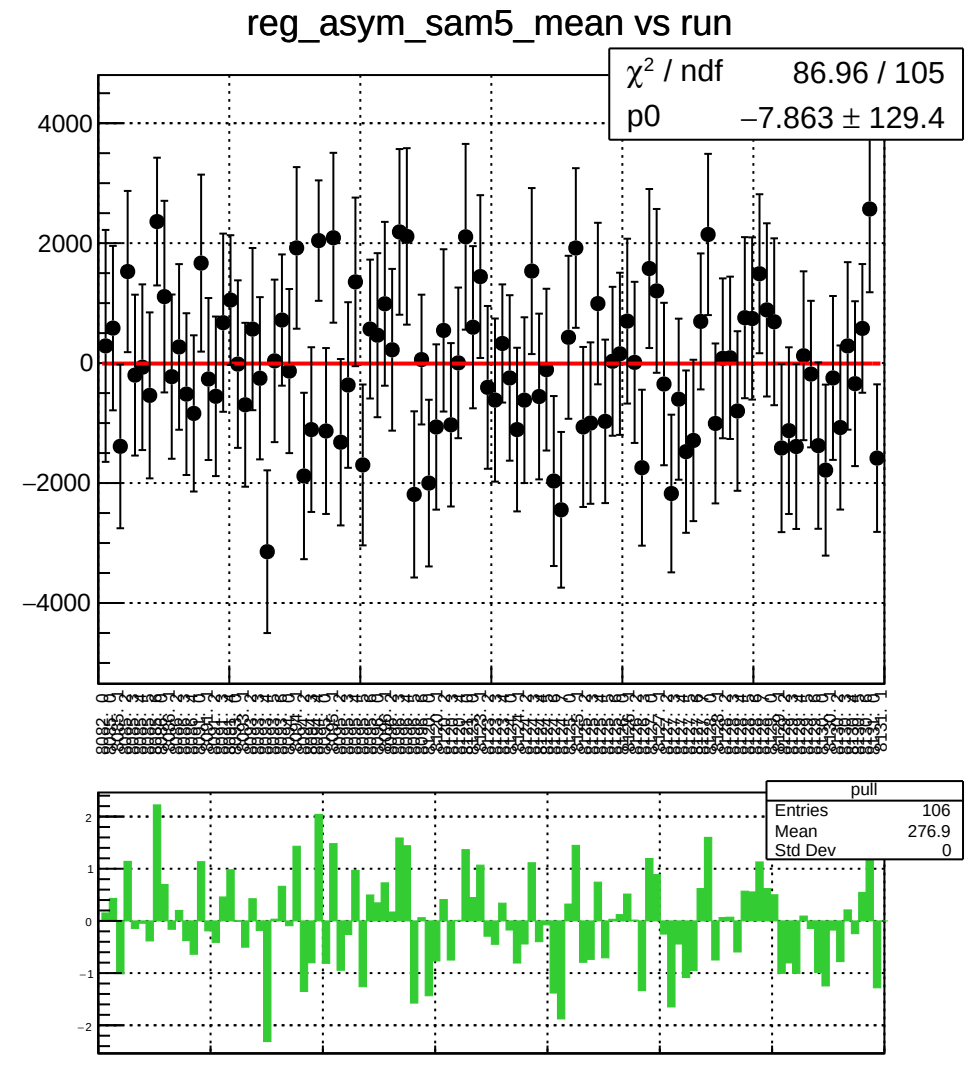

pull1D
Entries 105
Mean −0.009106
Std Dev 0.8934

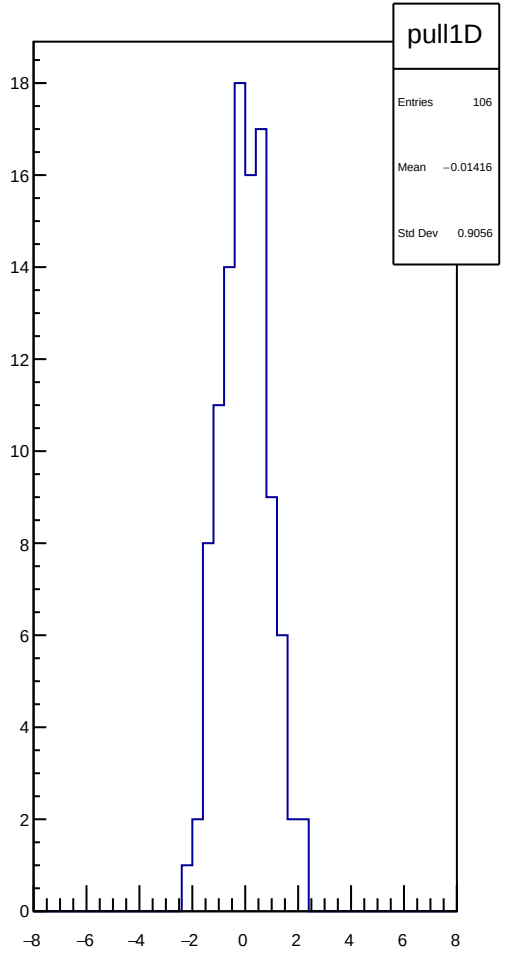

asym_sam4_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.095e+04 / 104
p0 133 ± 0.09441
240
220
200
180
160
140
120
100

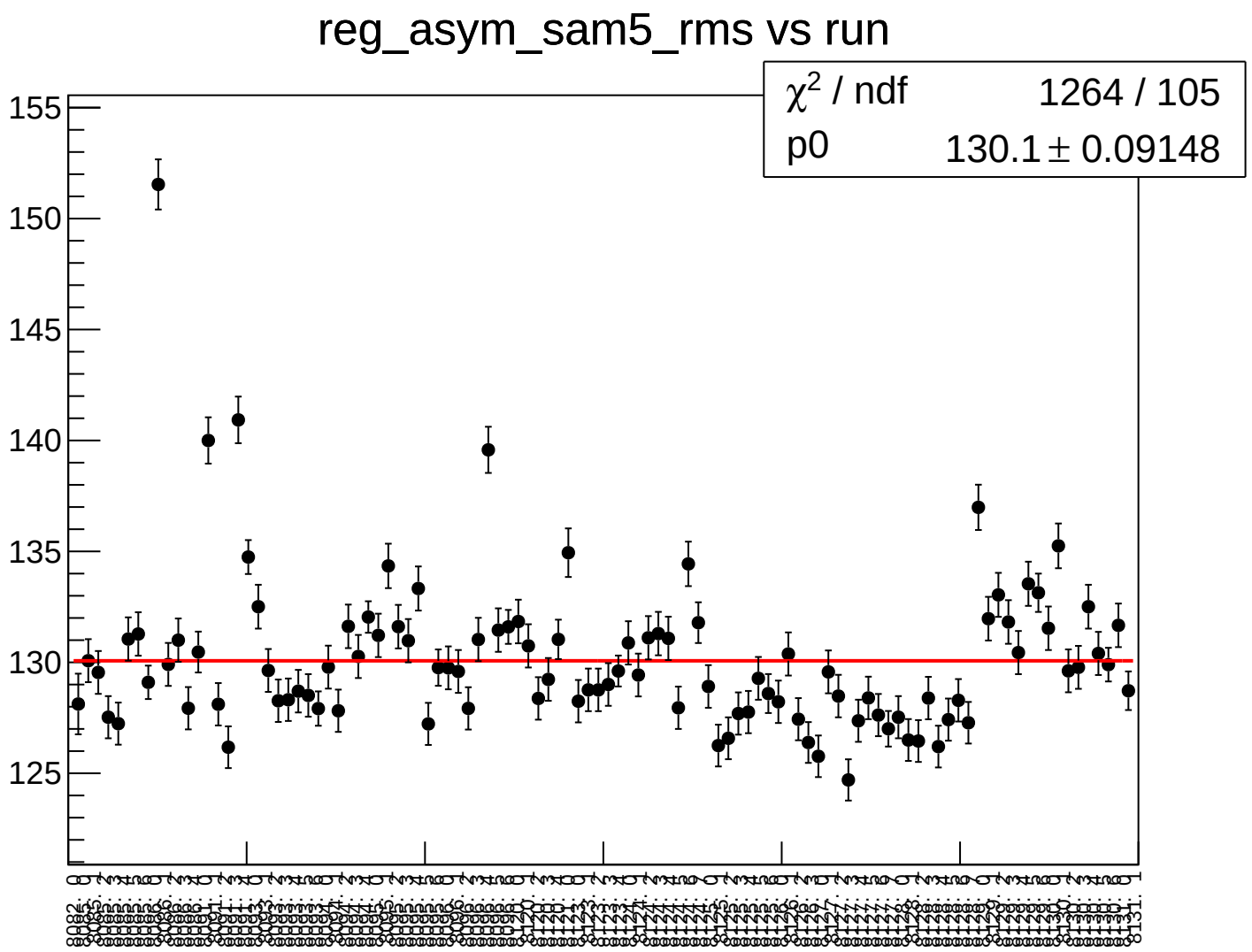

asym_sam4_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.98 / 105
p0 2.867e−14 ± 2.085e−13
pull
Entries 106
Mean 66.16
Std Dev 0

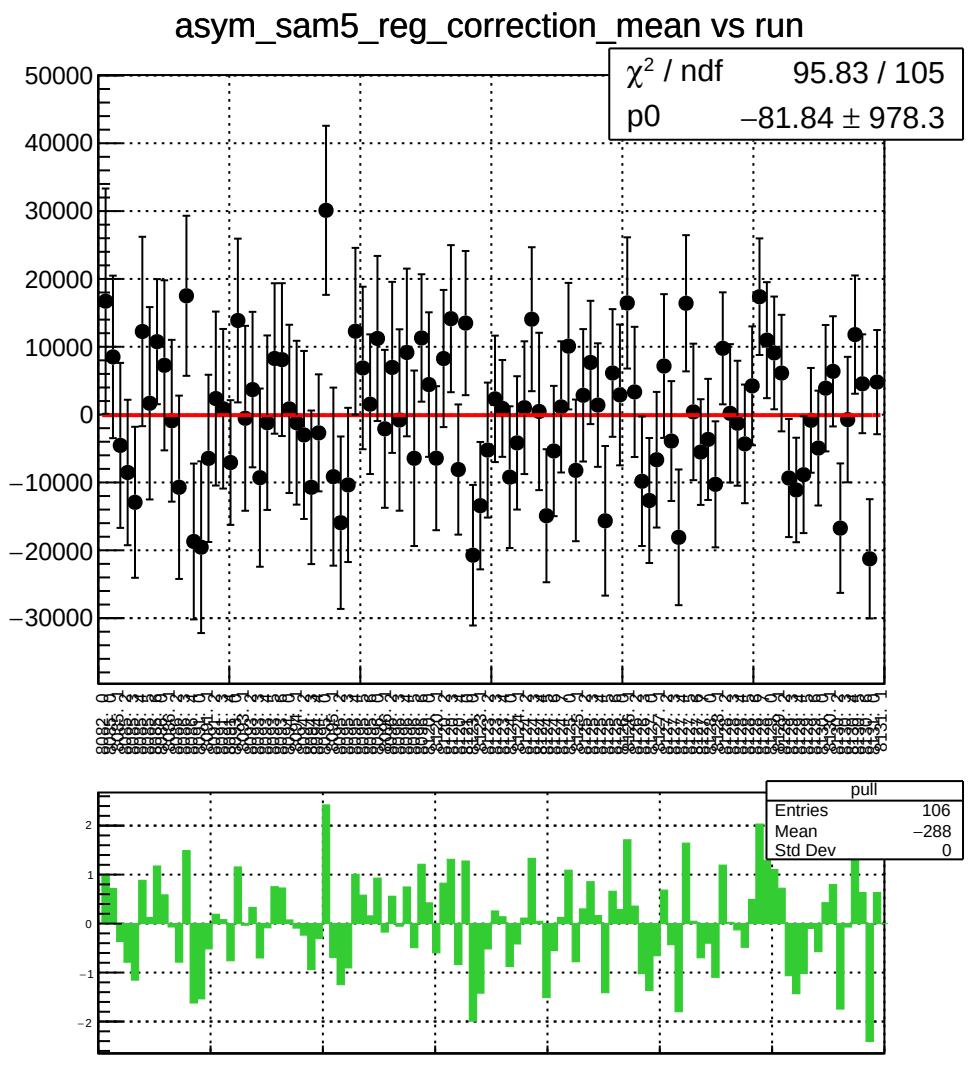

pull1D
Entries 106
Mean −0.06473
Std Dev 0.9293

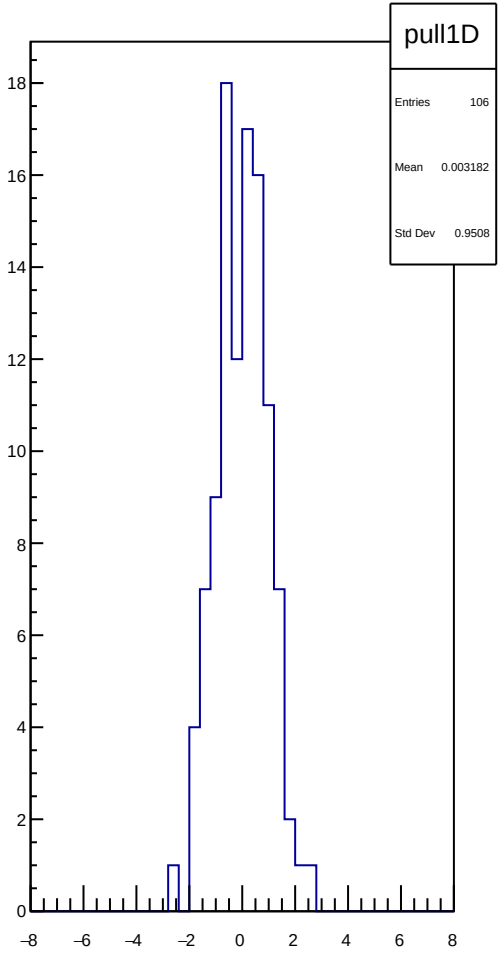

asym_sam4_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.429e+05 / 105
p0 1.668e−10 ± 1.474e−13
1
0.8
0.6
0.4
0.2

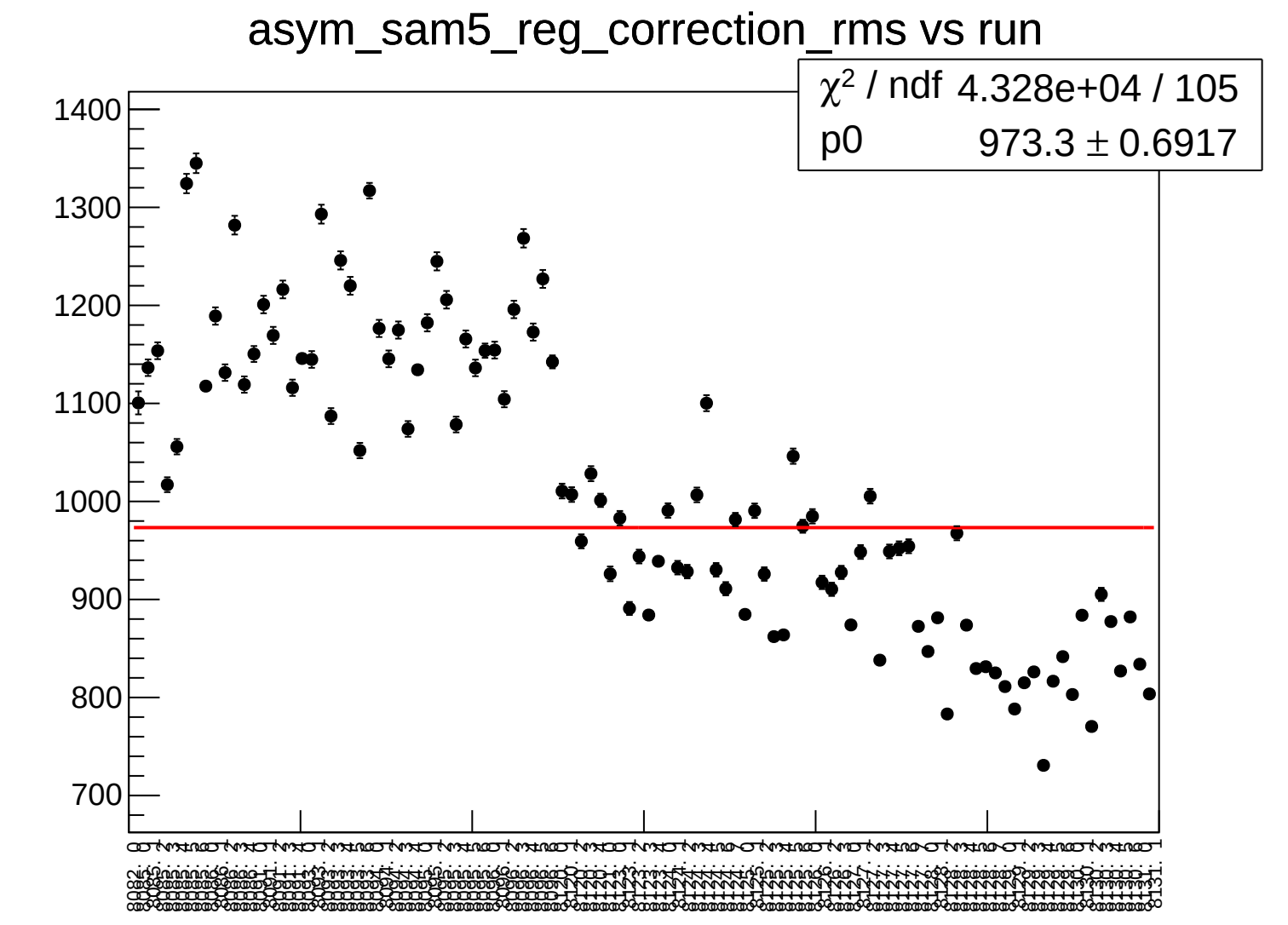

reg_asym_sam5_mean vs run
χ² / ndf 86.96 / 105
p0 −7.863 ± 129.4
4000
2000
0
−2000
−4000
pull
Entries 106
Mean 276.9
Std Dev 0
2
1
0
−1
−2

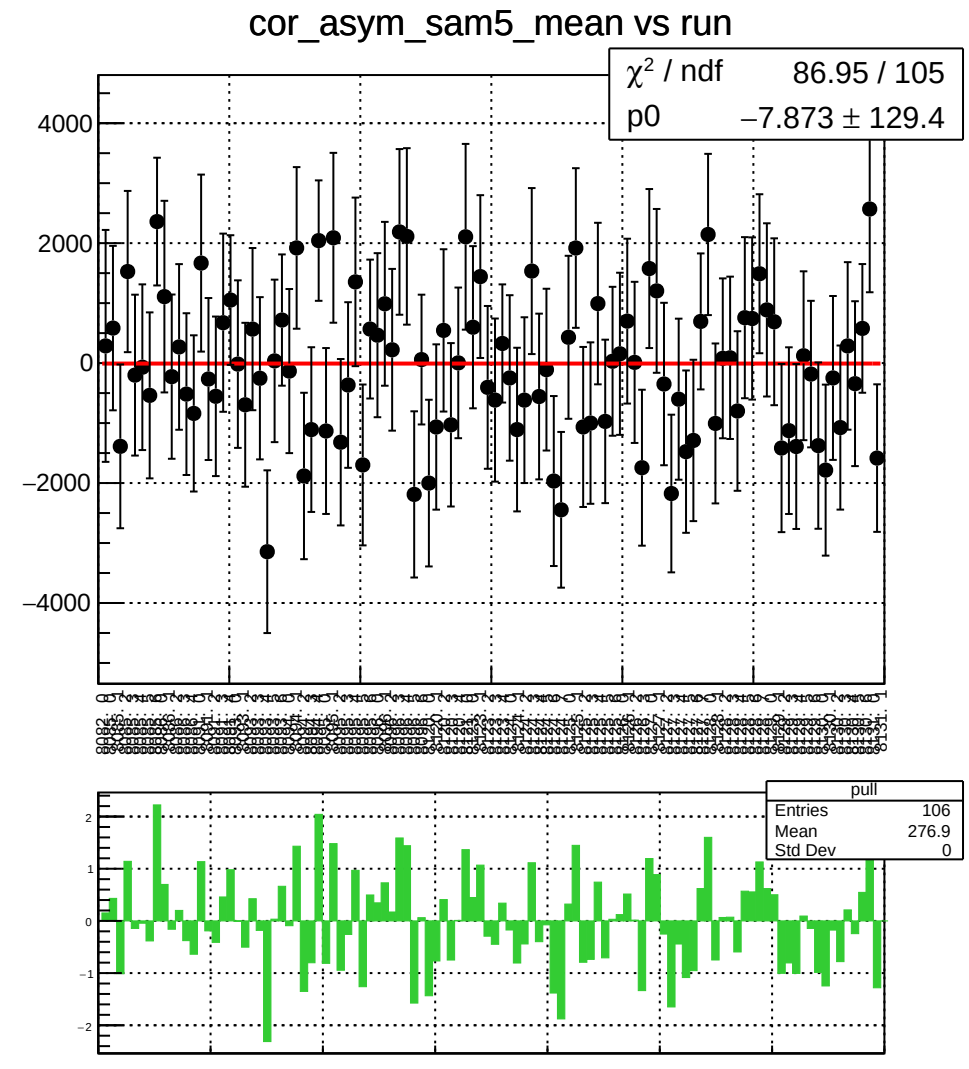

pull1D
Entries 106
Mean −0.01416
Std Dev 0.9056
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

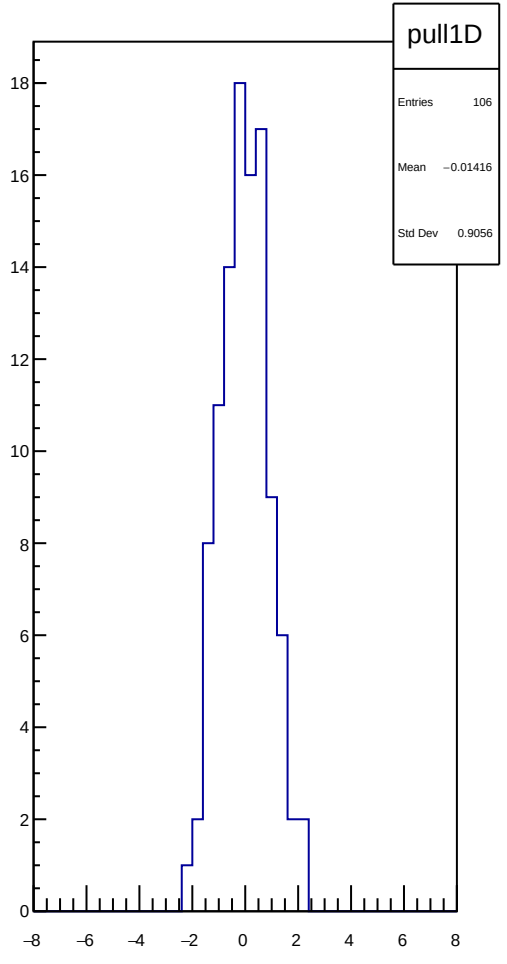

reg_asym_sam5_rms vs run
$\chi^2$ / ndf 1264 / 105
p0 130.1 ± 0.09148
155
150
145
140
135
130
125

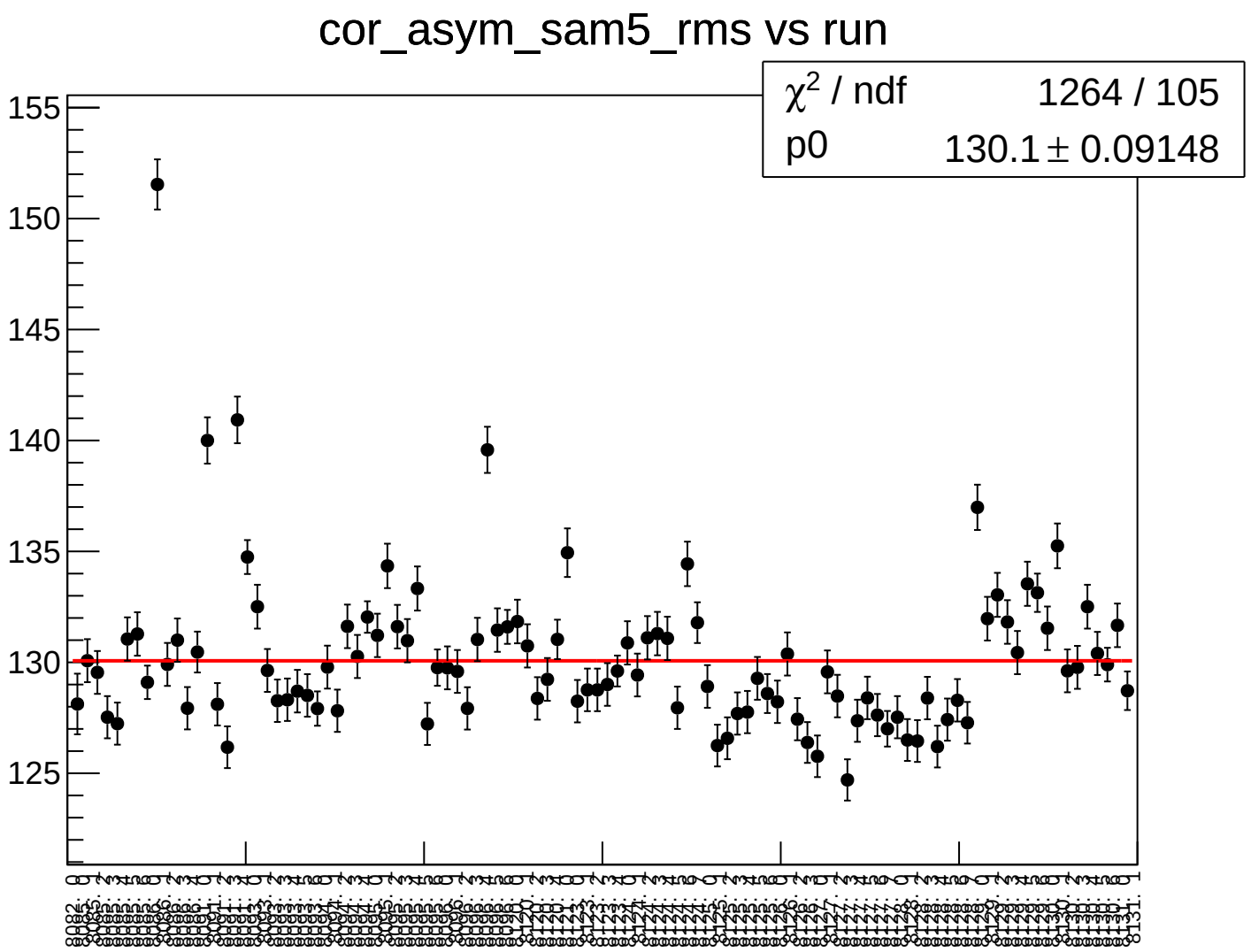

asym_sam5_reg_correction_mean vs run
χ² / ndf 95.83 / 105
p0 −81.84 ± 978.3
pull
Entries 106
Mean −288
Std Dev 0

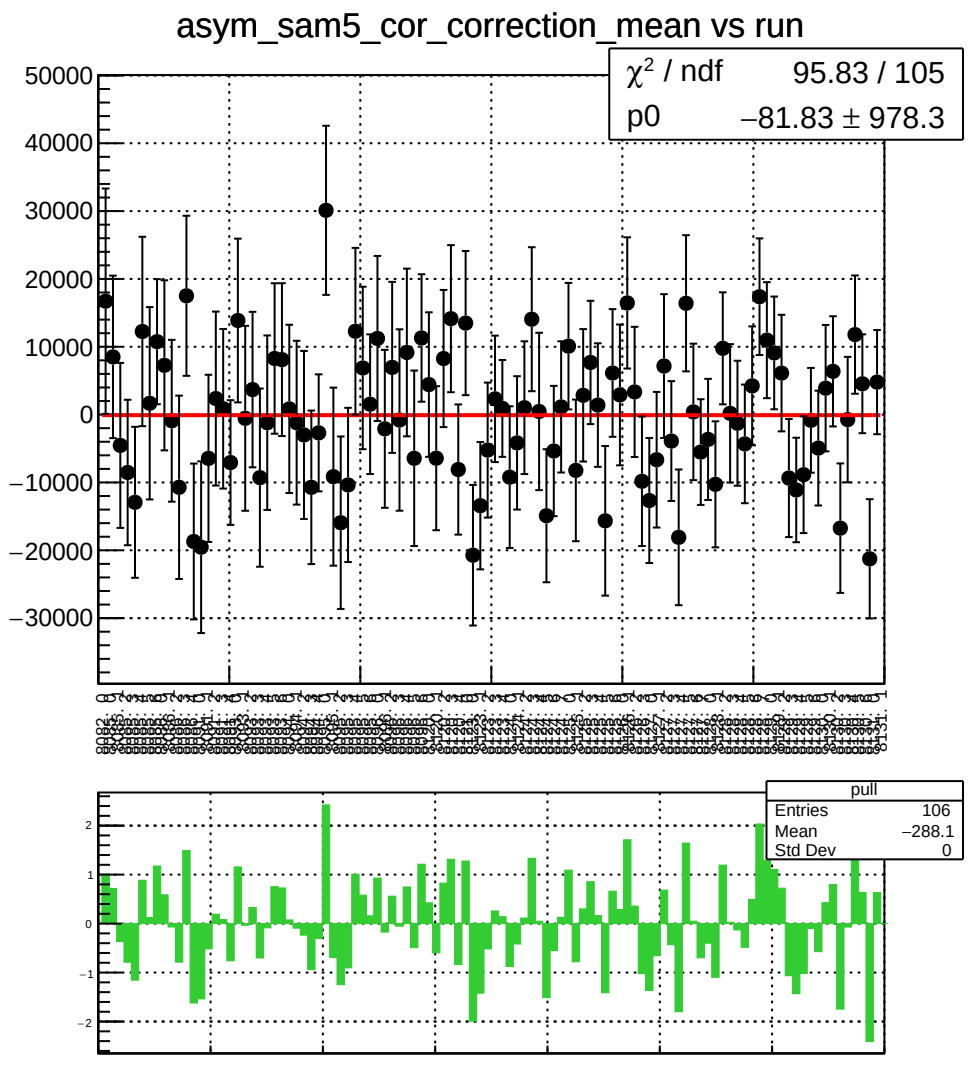

pull1D
Entries 106
Mean 0.003182
Std Dev 0.9508

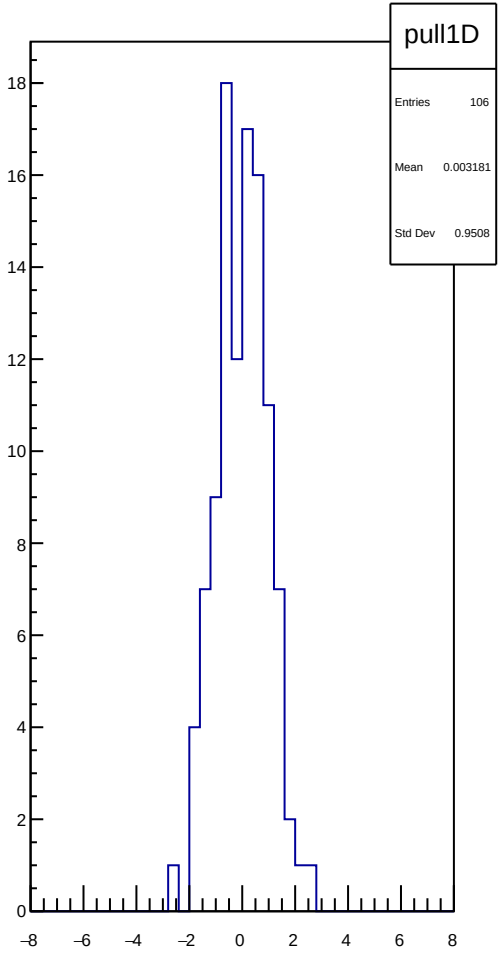

asym_sam5_reg_correction_rms vs run
χ² / ndf 4.328e+04 / 105
p0 973.3 ± 0.6917
1400
1300
1200
1100
1000
900
800
700

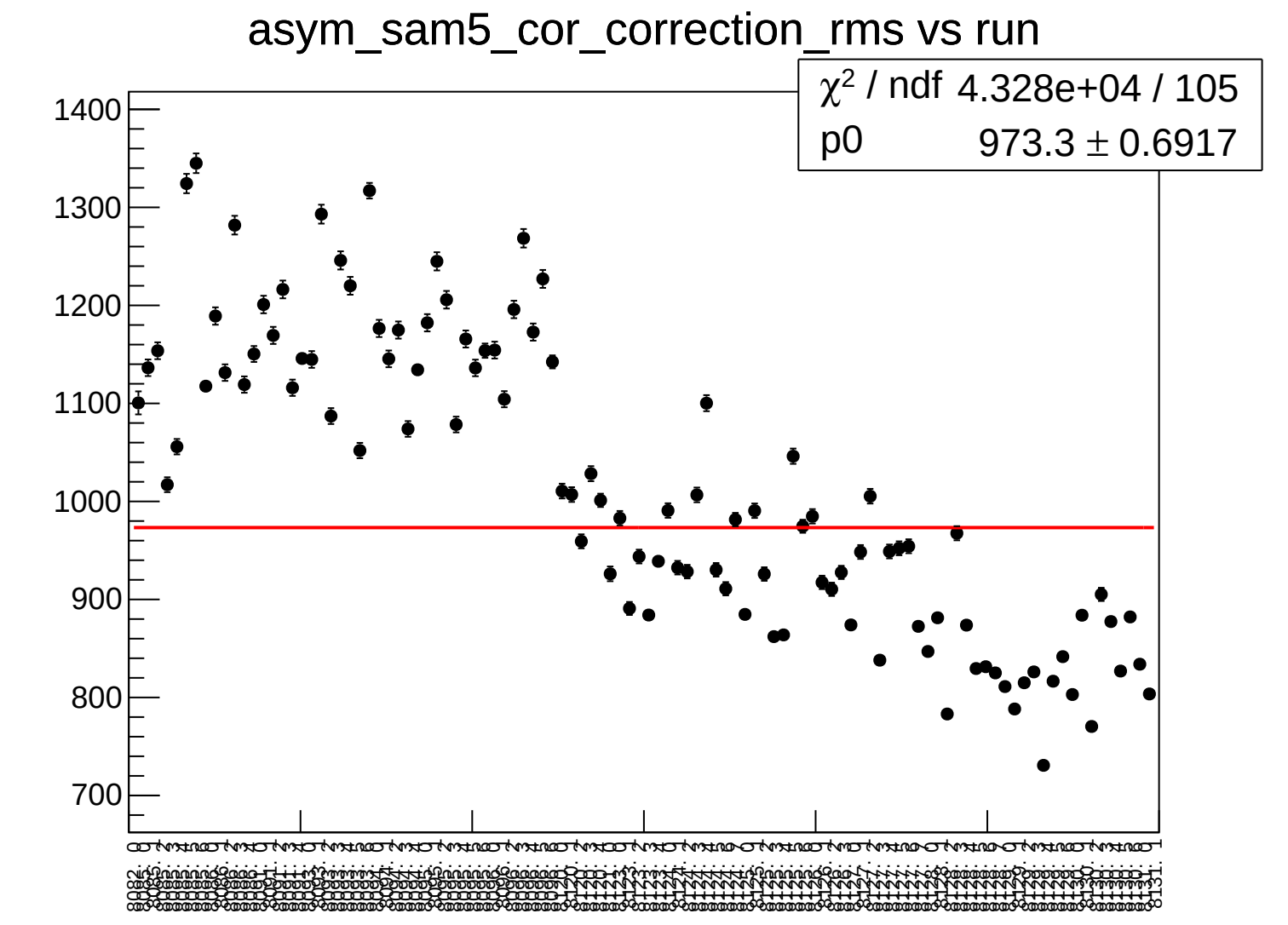

cor_asym_sam5_mean vs run
χ² / ndf 86.95 / 105
p0 −7.873 ± 129.4
4000
2000
0
−2000
−4000
pull
Entries 106
Mean 276.9
Std Dev 0
2
1
0
−1
−2

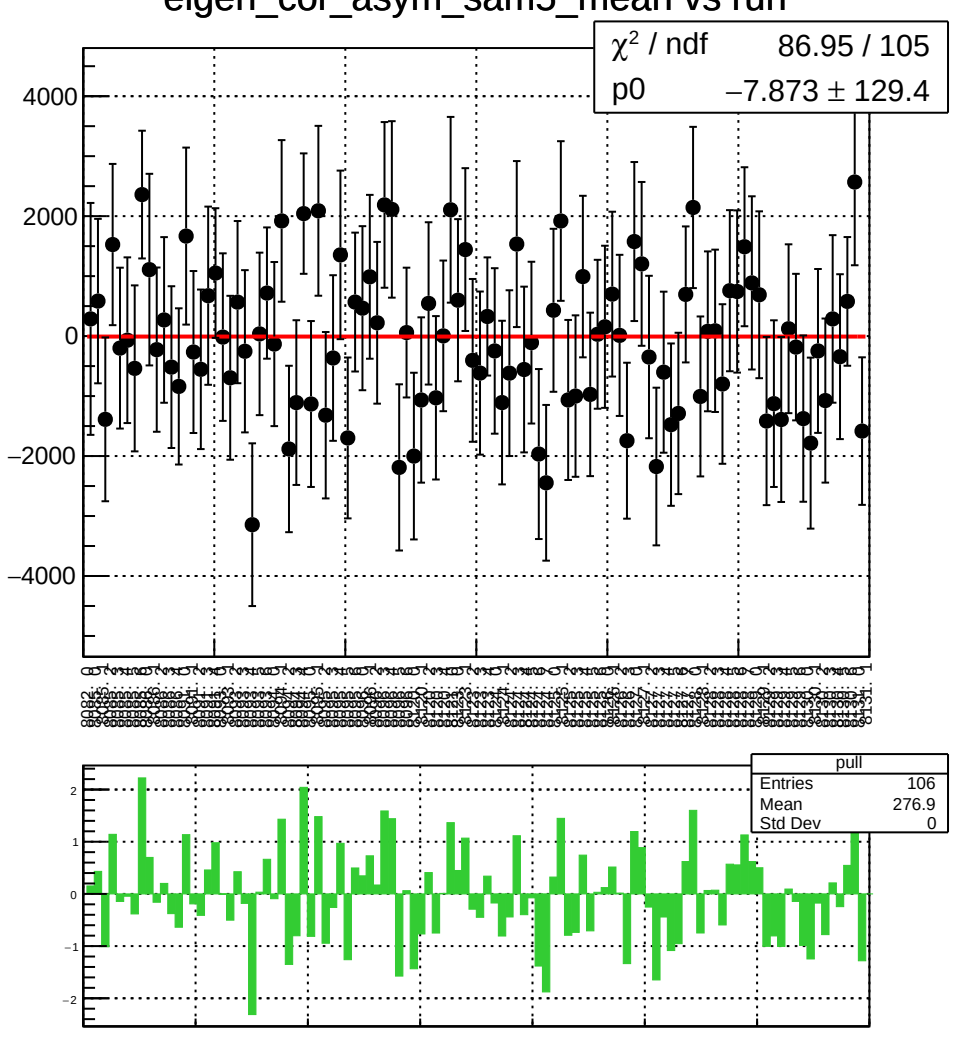

pull1D
Entries 106
Mean −0.01416
Std Dev 0.9056
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

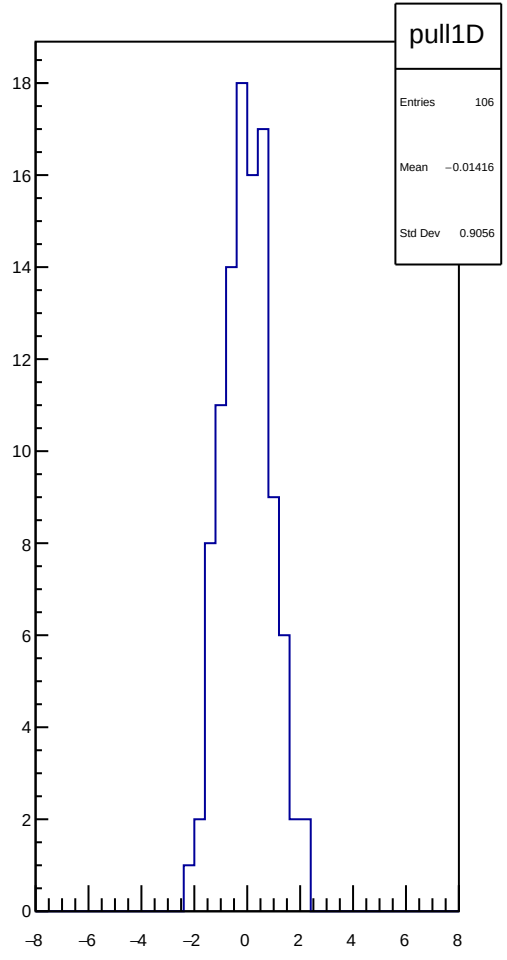

cor_asym_sam5_rms vs run
$\chi^2$ / ndf 1264 / 105
p0 130.1 ± 0.09148
155
150
145
140
135
130
125

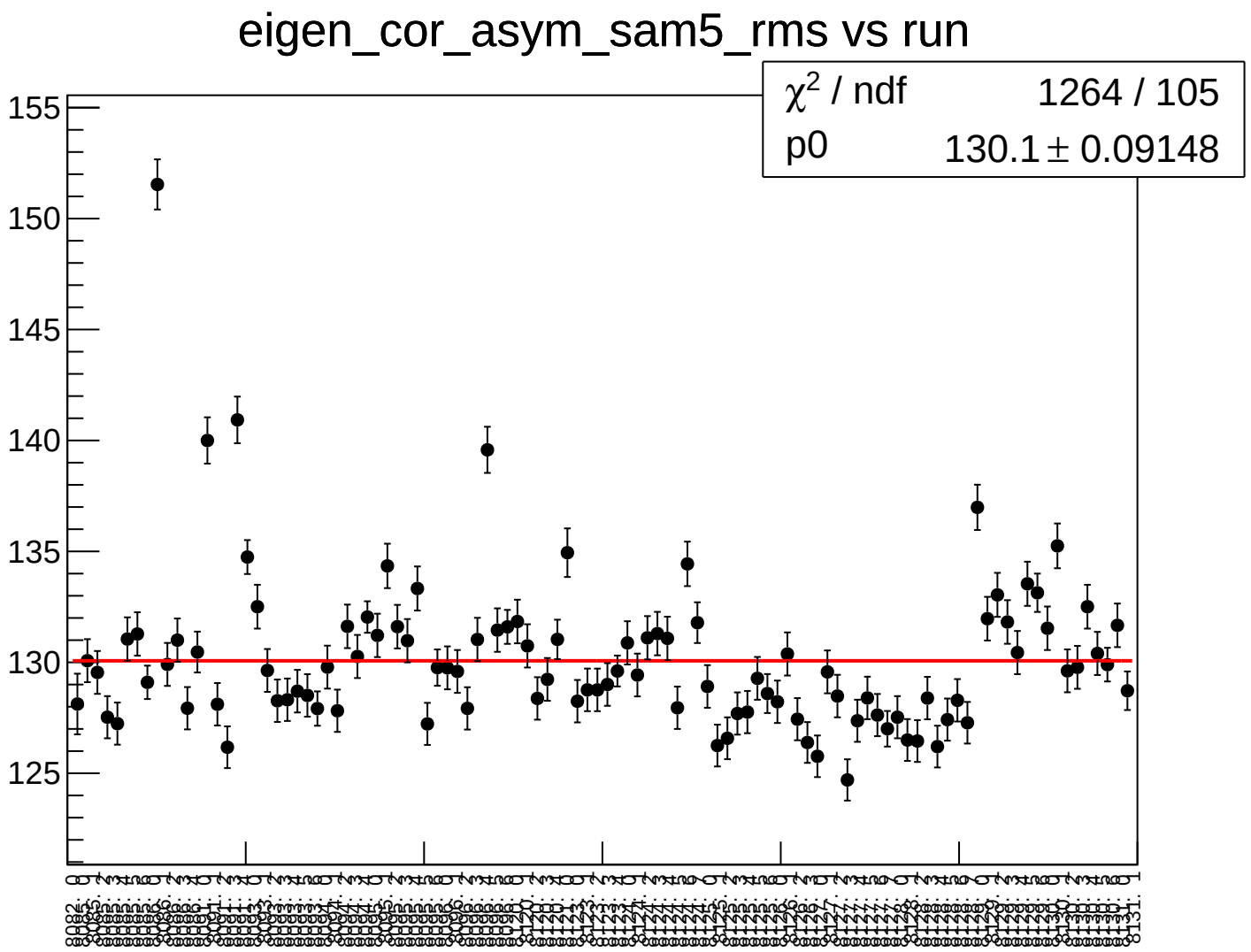

asym_sam5_cor_correction_mean vs run
χ² / ndf 95.83 / 105
p0 −81.83 ± 978.3
pull
Entries 106
Mean −288.1
Std Dev 0

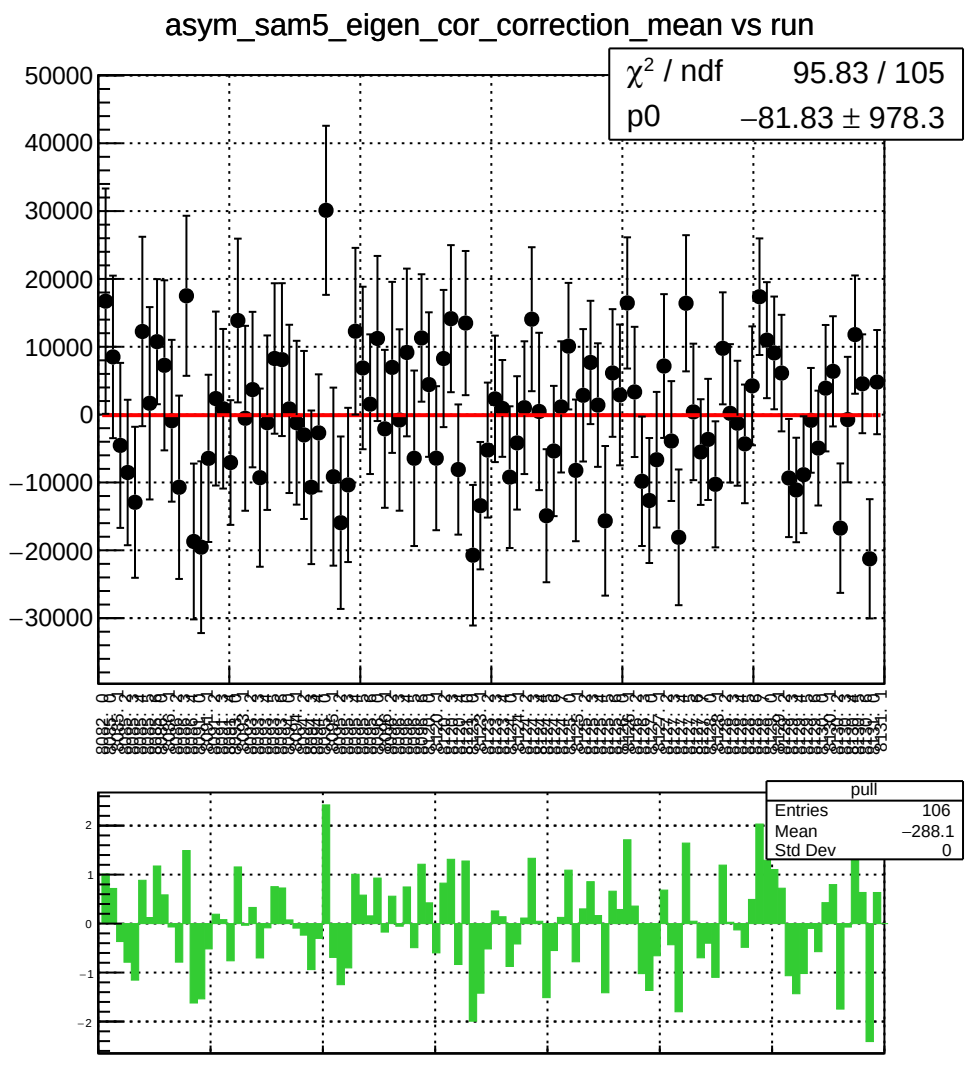

pull1D
Entries 106
Mean 0.003181
Std Dev 0.9508

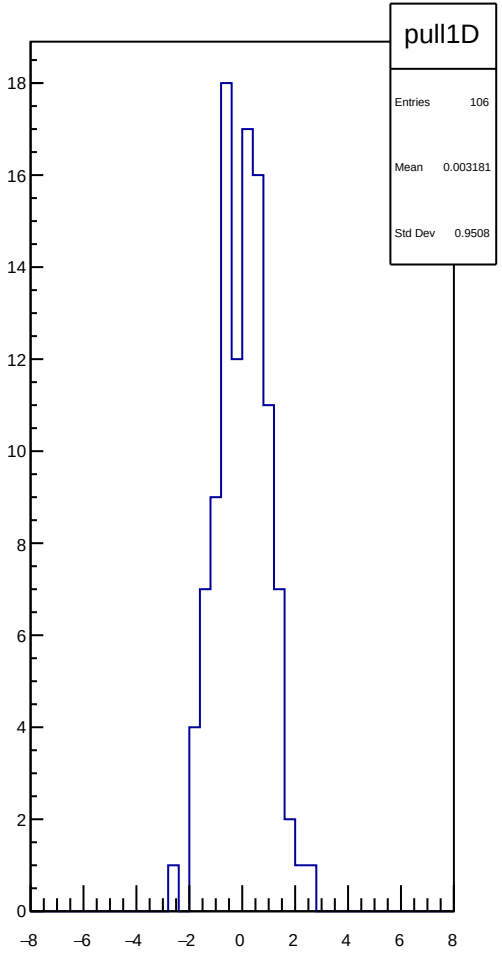

asym_sam5_cor_correction_rms vs run
χ² / ndf 4.328e+04 / 105
p0 973.3 ± 0.6917
1400
1300
1200
1100
1000
900
800
700

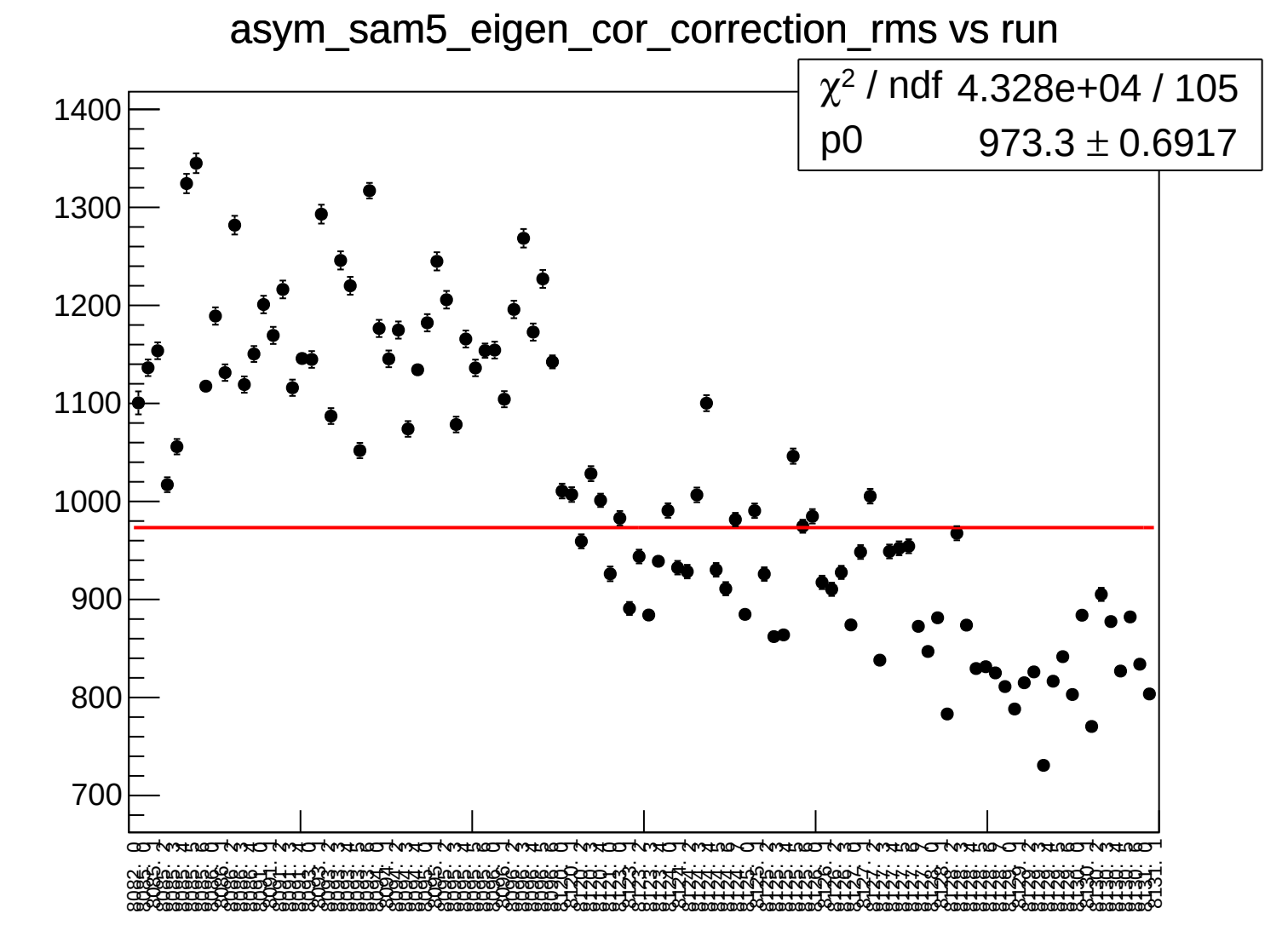

eigen_cor_asym_sam5_mean vs run
χ² / ndf 86.95 / 105
p0 −7.873 ± 129.4
4000
2000
0
−2000
−4000
pull
Entries 106
Mean 276.9
Std Dev 0
2
1
0
−1
−2

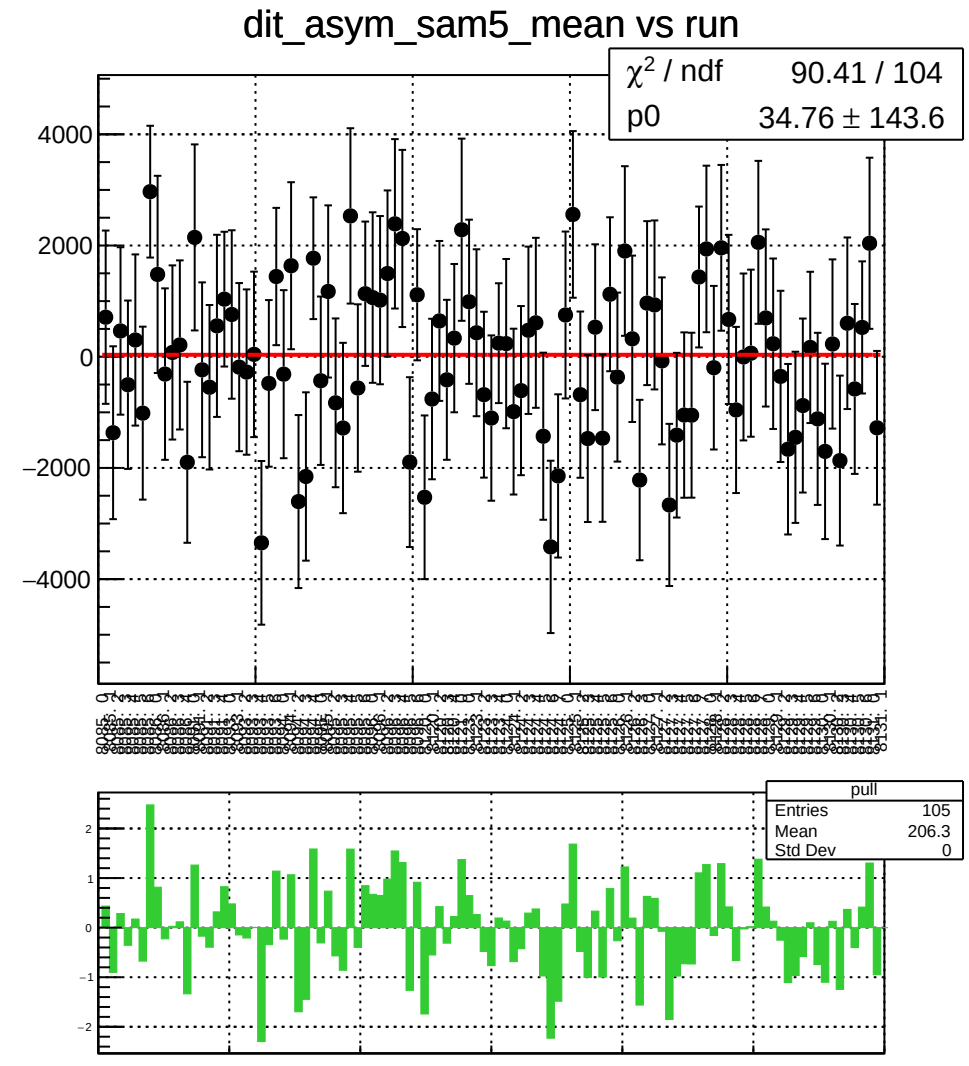

pull1D
Entries 106
Mean −0.01416
Std Dev 0.9056
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

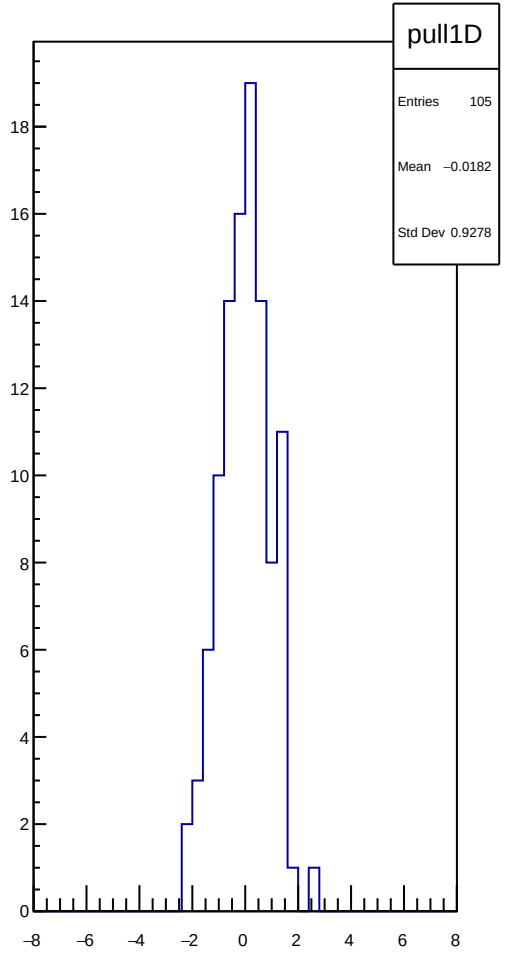

eigen_cor_asym_sam5_rms vs run
$\chi^2$ / ndf 1264 / 105
p0 130.1 ± 0.09148
155
150
145
140
135
130
125

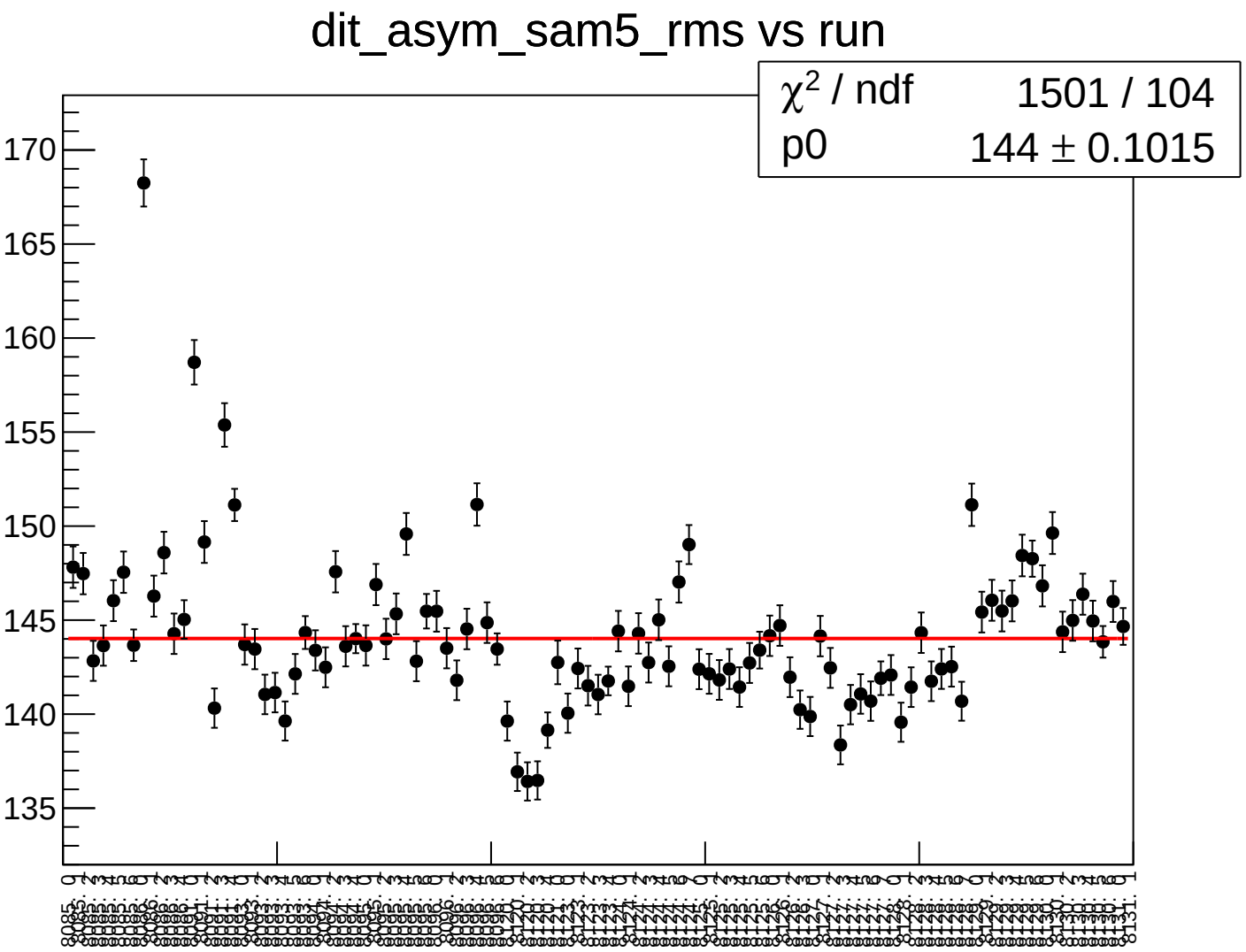

asym_sam5_eigen_cor_correction_mean vs run
χ² / ndf 95.83 / 105
p0 −81.83 ± 978.3
pull
Entries 106
Mean −288.1
Std Dev 0

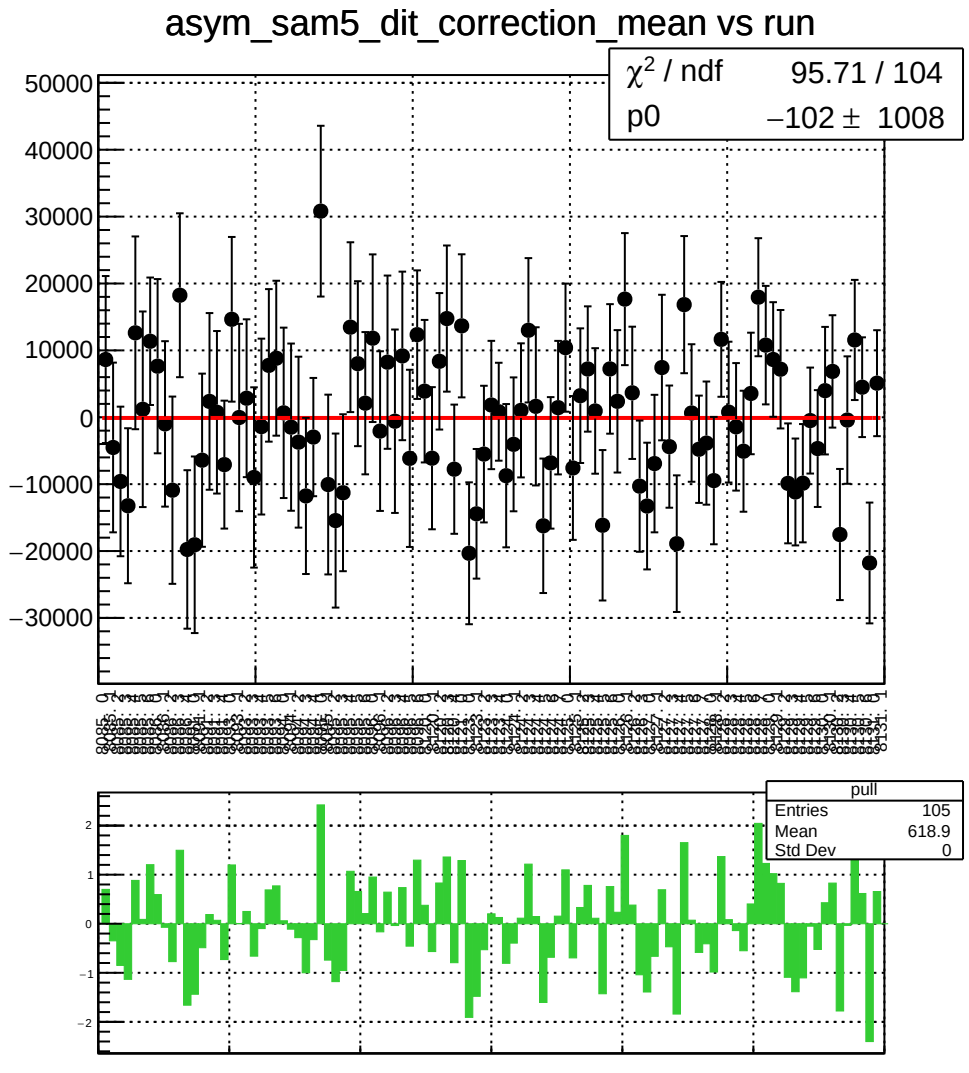

pull1D
Entries 106
Mean 0.003181
Std Dev 0.9508

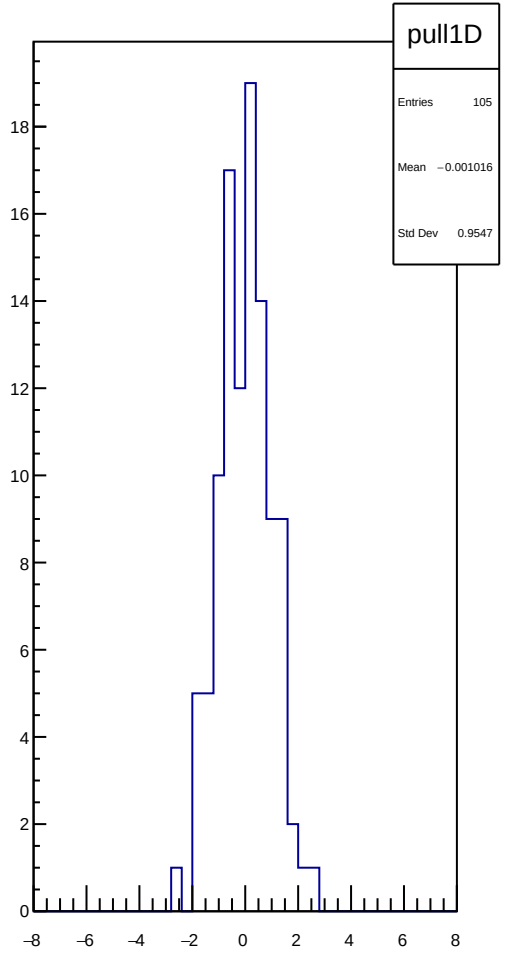

asym_sam5_eigen_cor_correction_rms vs run
χ² / ndf 4.328e+04 / 105
p0 973.3 ± 0.6917
1400
1300
1200
1100
1000
900
800
700

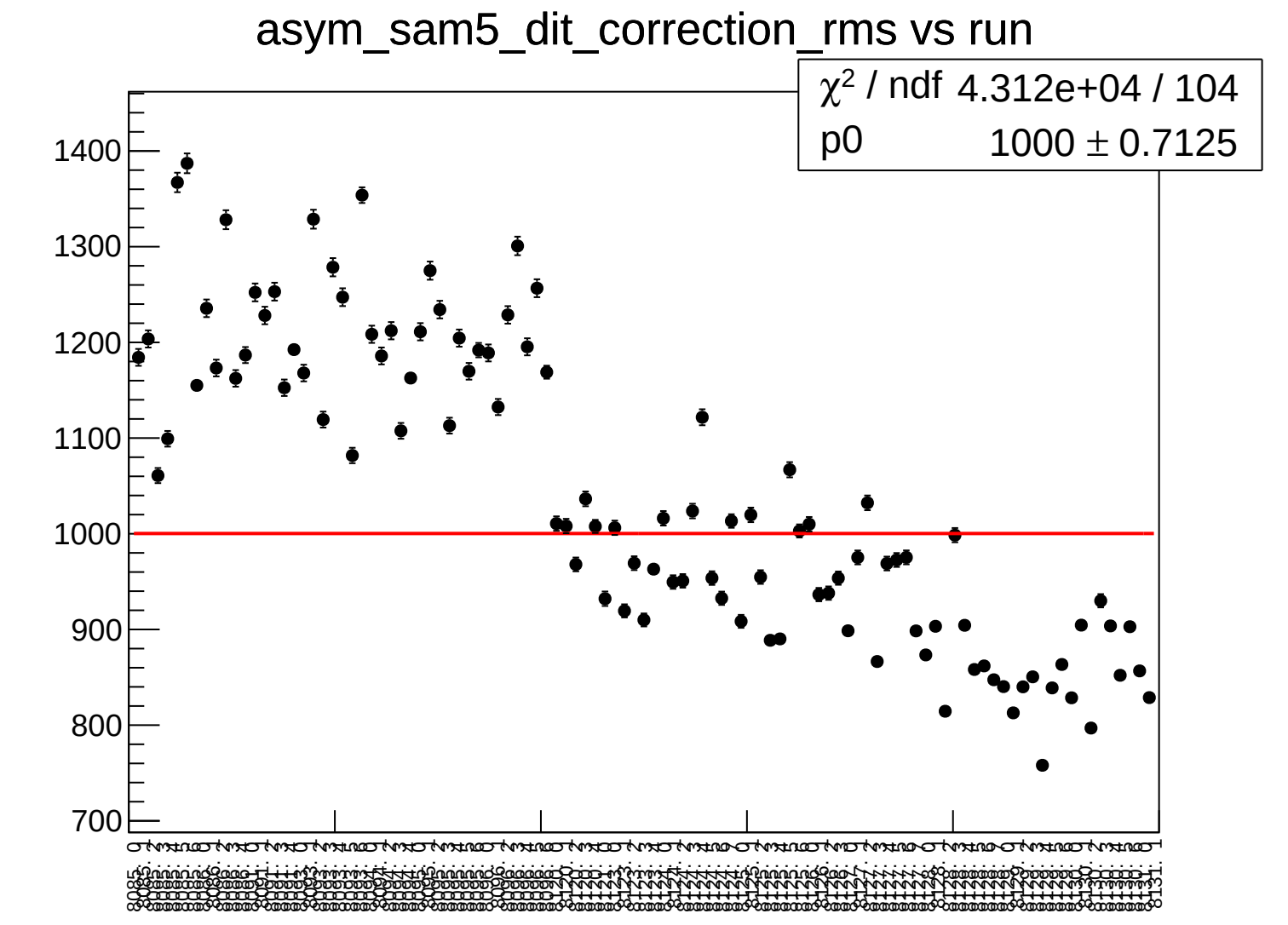

dit_asym_sam5_mean vs run
χ² / ndf 90.41 / 104
p0 34.76 ± 143.6
4000
2000
0
−2000
−4000
pull
Entries 105
Mean 206.3
Std Dev 0
2
1
0
−1
−2

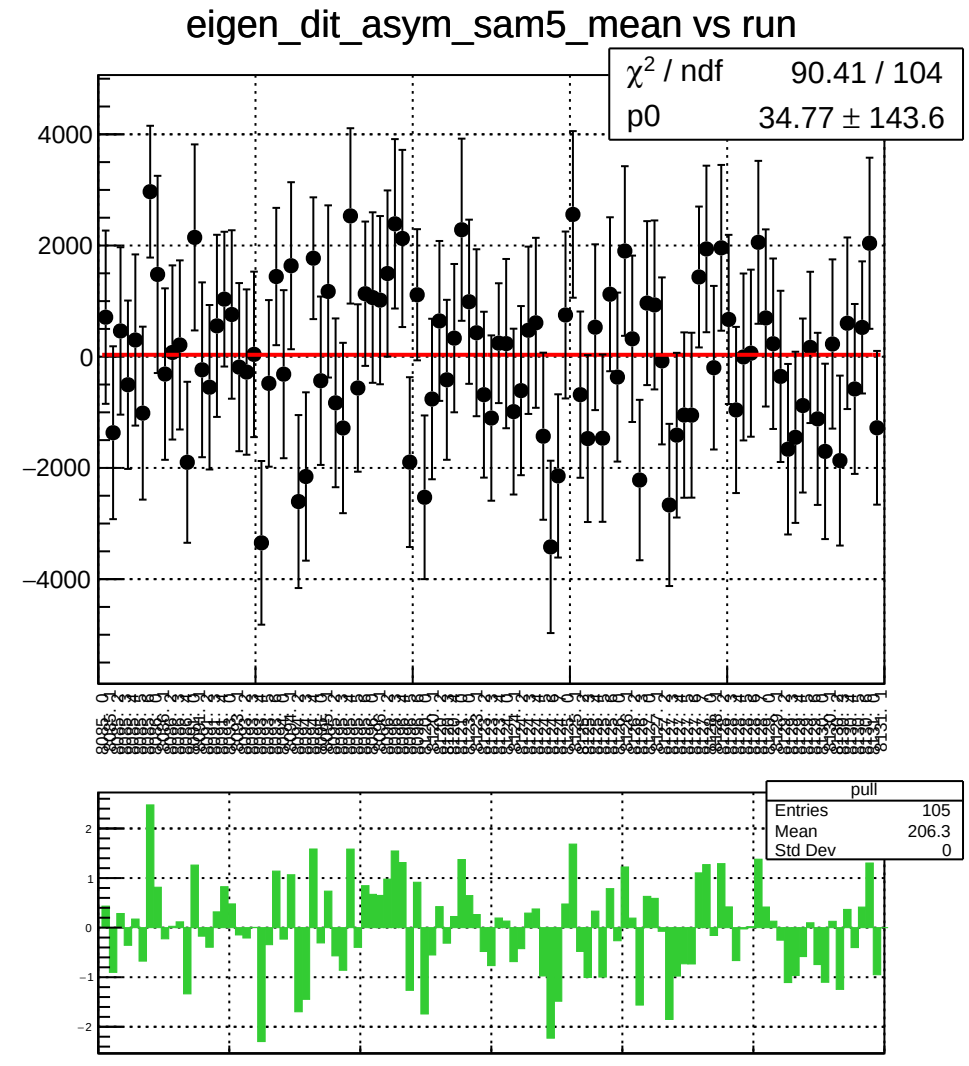

pull1D
Entries 105
Mean −0.0182
Std Dev 0.9278
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

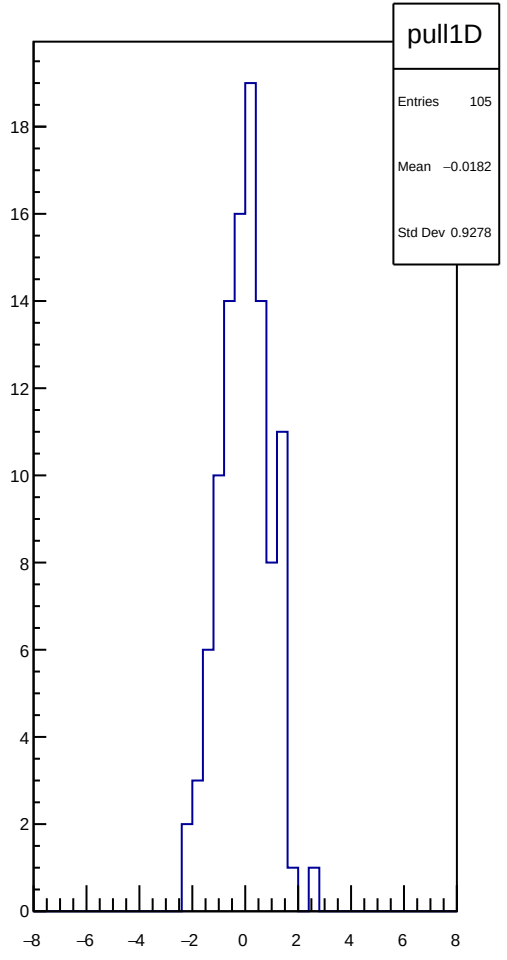

dit_asym_sam5_rms vs run
χ² / ndf 1501 / 104
p0 144 ± 0.1015
170
165
160
155
150
145
140
135

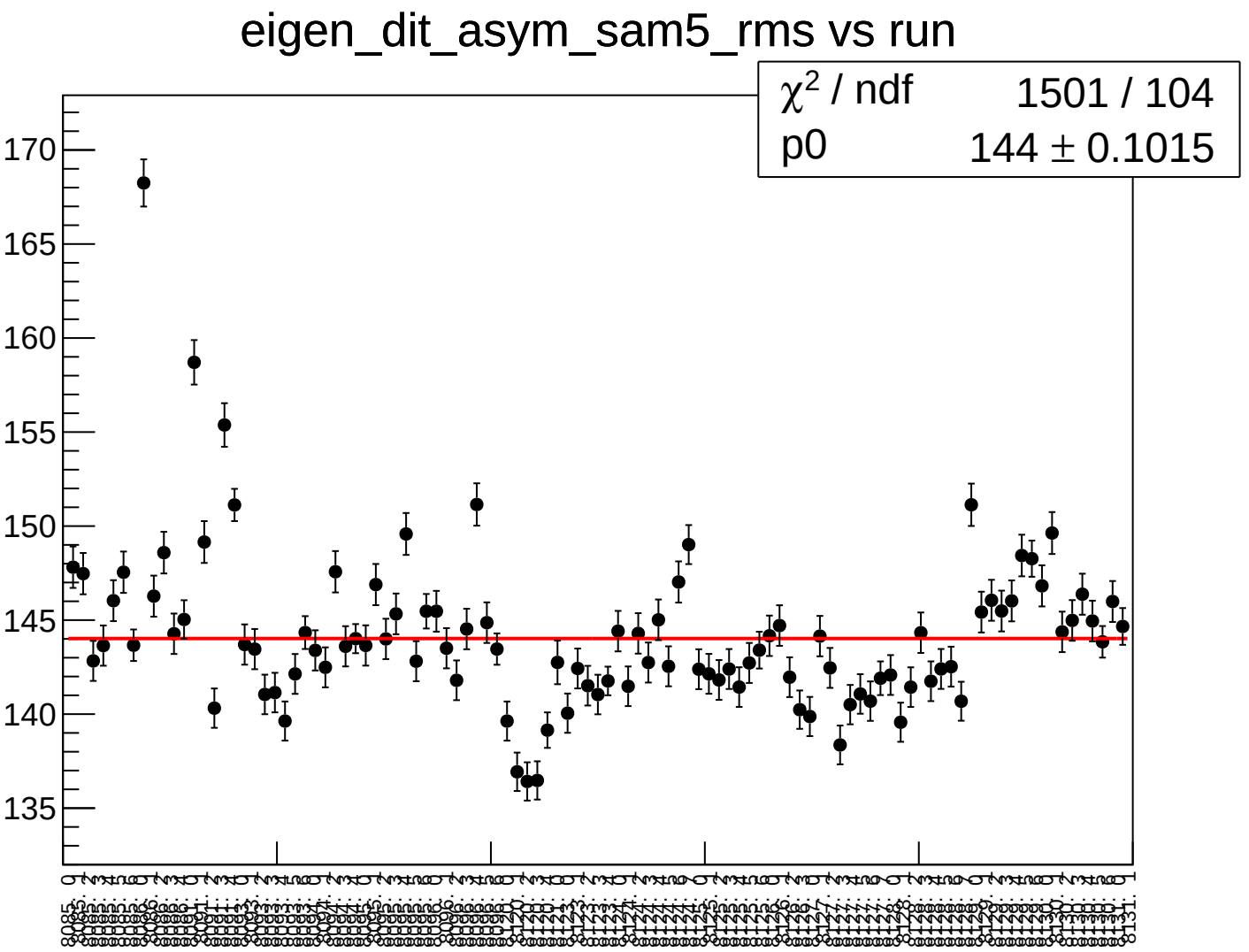

asym_sam5_dit_correction_mean vs run
χ² / ndf 95.71 / 104
p0 −102 ± 1008
pull
Entries 105
Mean 618.9
Std Dev 0

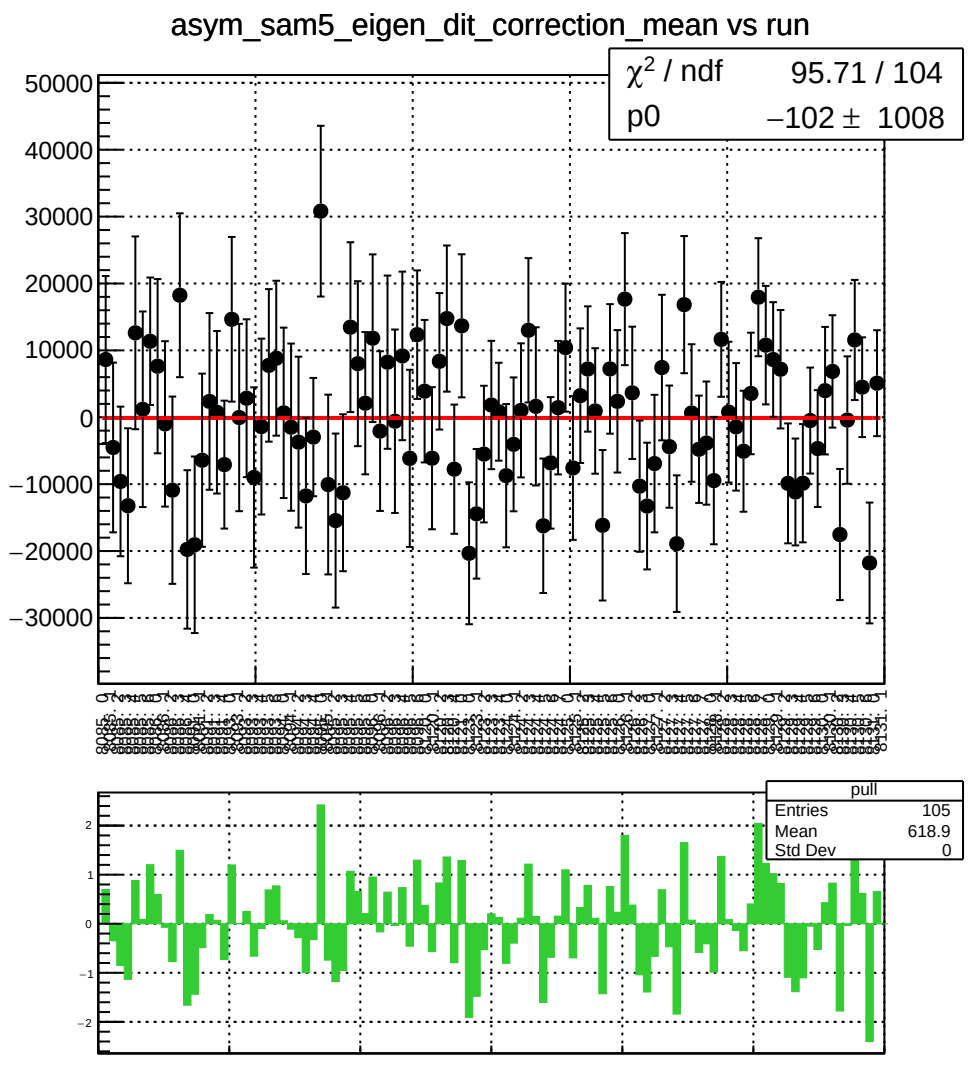

pull1D
Entries 105
Mean −0.001016
Std Dev 0.9547

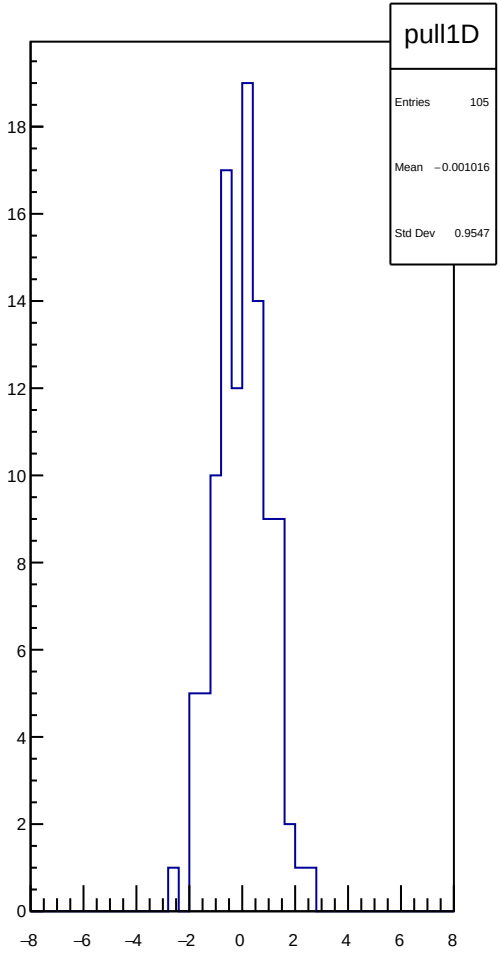

asym_sam5_dit_correction_rms vs run
χ² / ndf 4.312e+04 / 104
p0 1000 ± 0.7125
1400
1300
1200
1100
1000
900
800
700

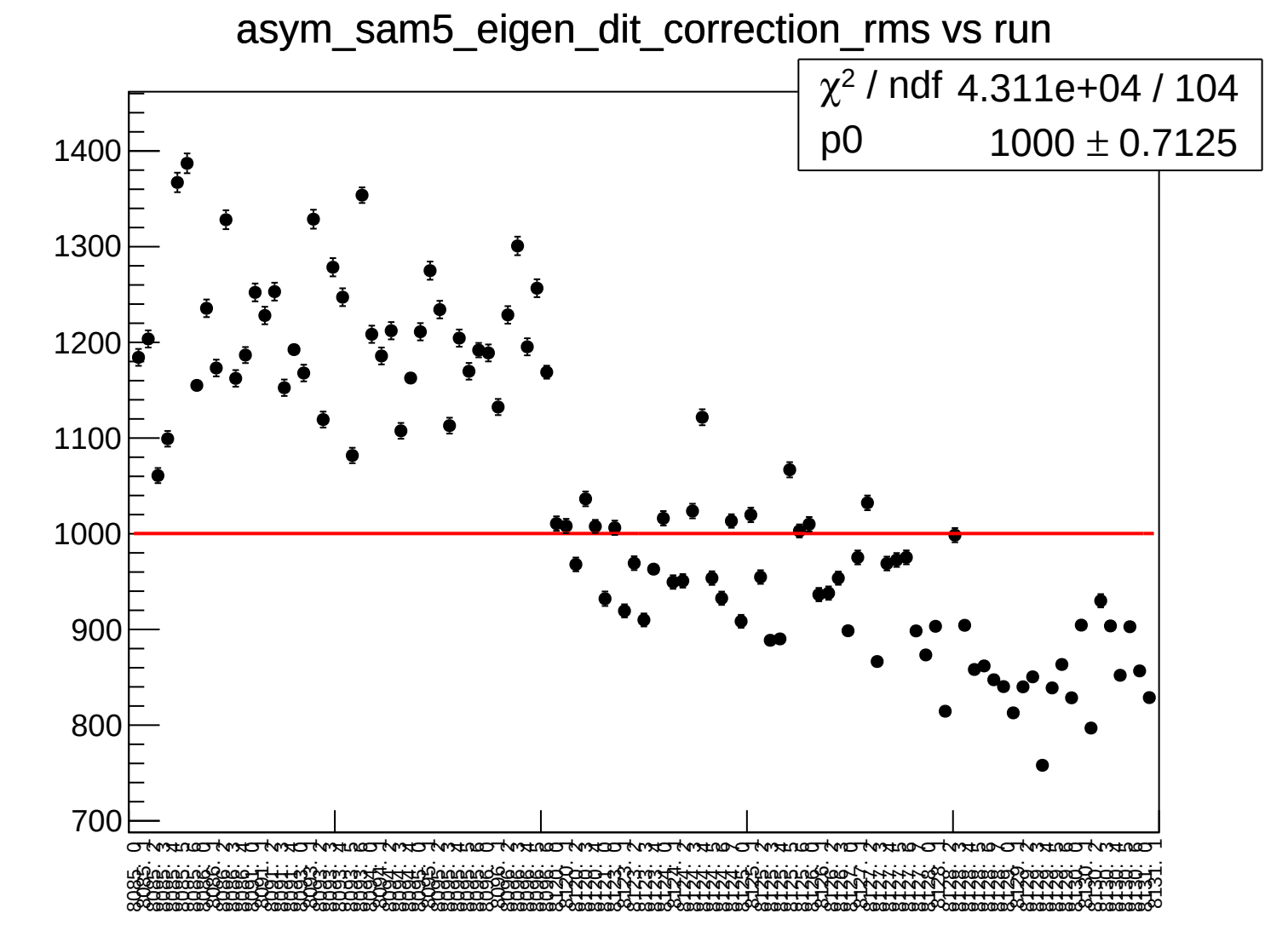

eigen_dit_asym_sam5_mean vs run
χ² / ndf 90.41 / 104
p0 34.77 ± 143.6
4000
2000
0
−2000
−4000
pull
Entries 105
Mean 206.3
Std Dev 0
2
1
0
−1
−2

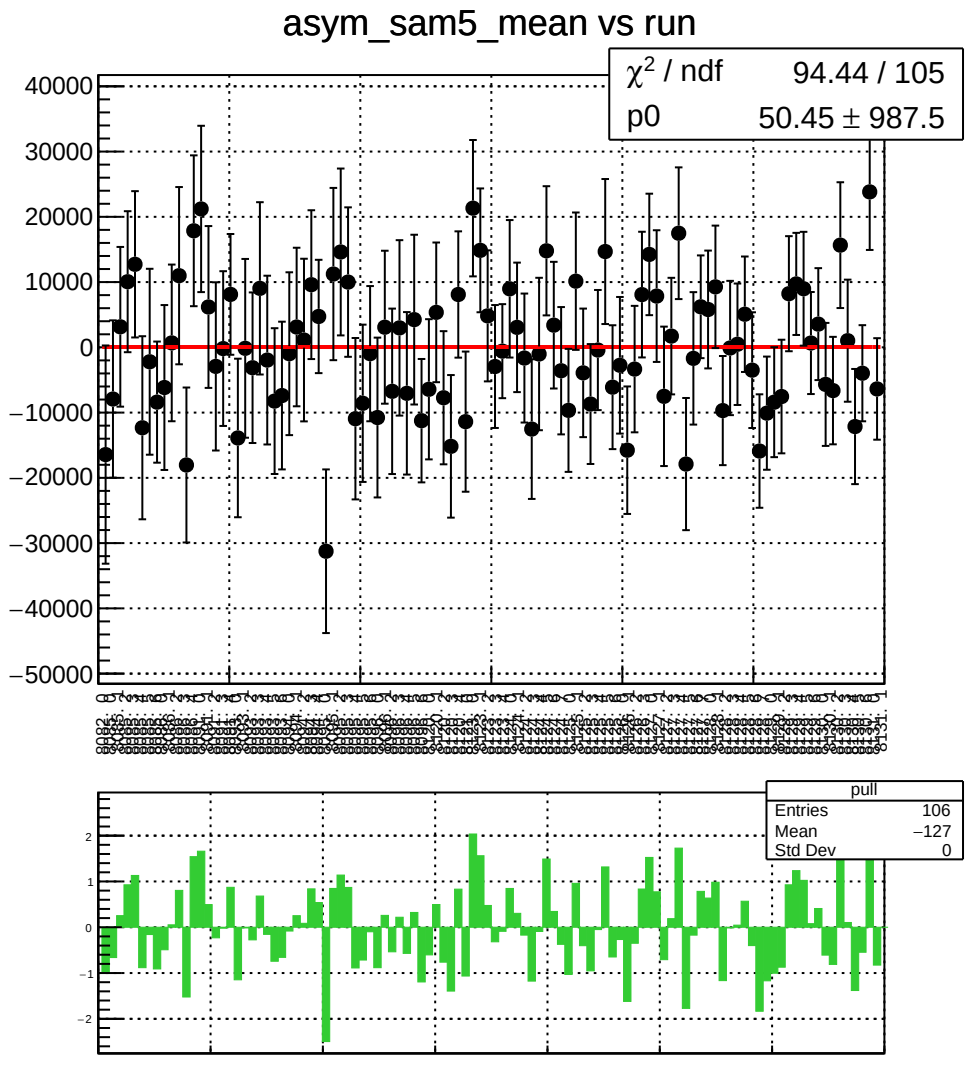

pull1D
Entries 105
Mean −0.0182
Std Dev 0.9278
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

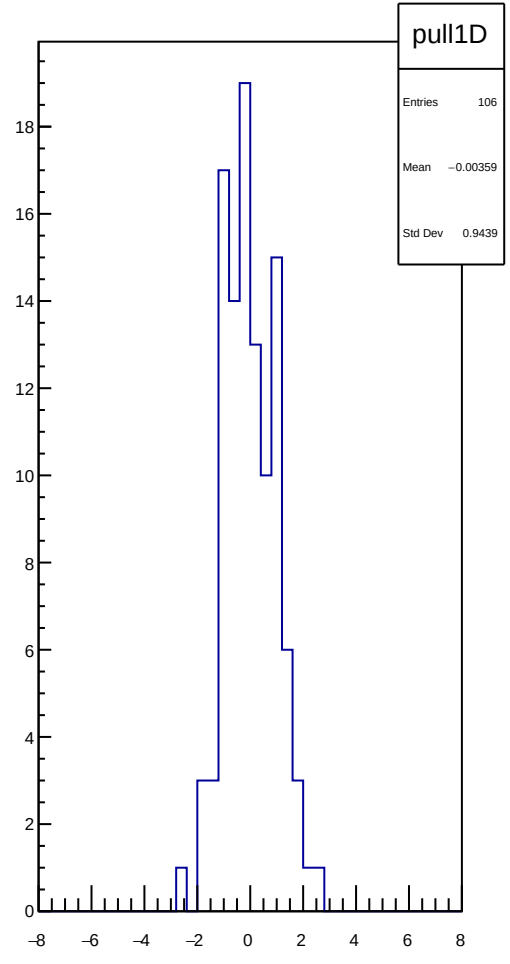

eigen_dit_asym_sam5_rms vs run
χ² / ndf 1501 / 104
p0 144 ± 0.1015
170
165
160
155
150
145
140
135

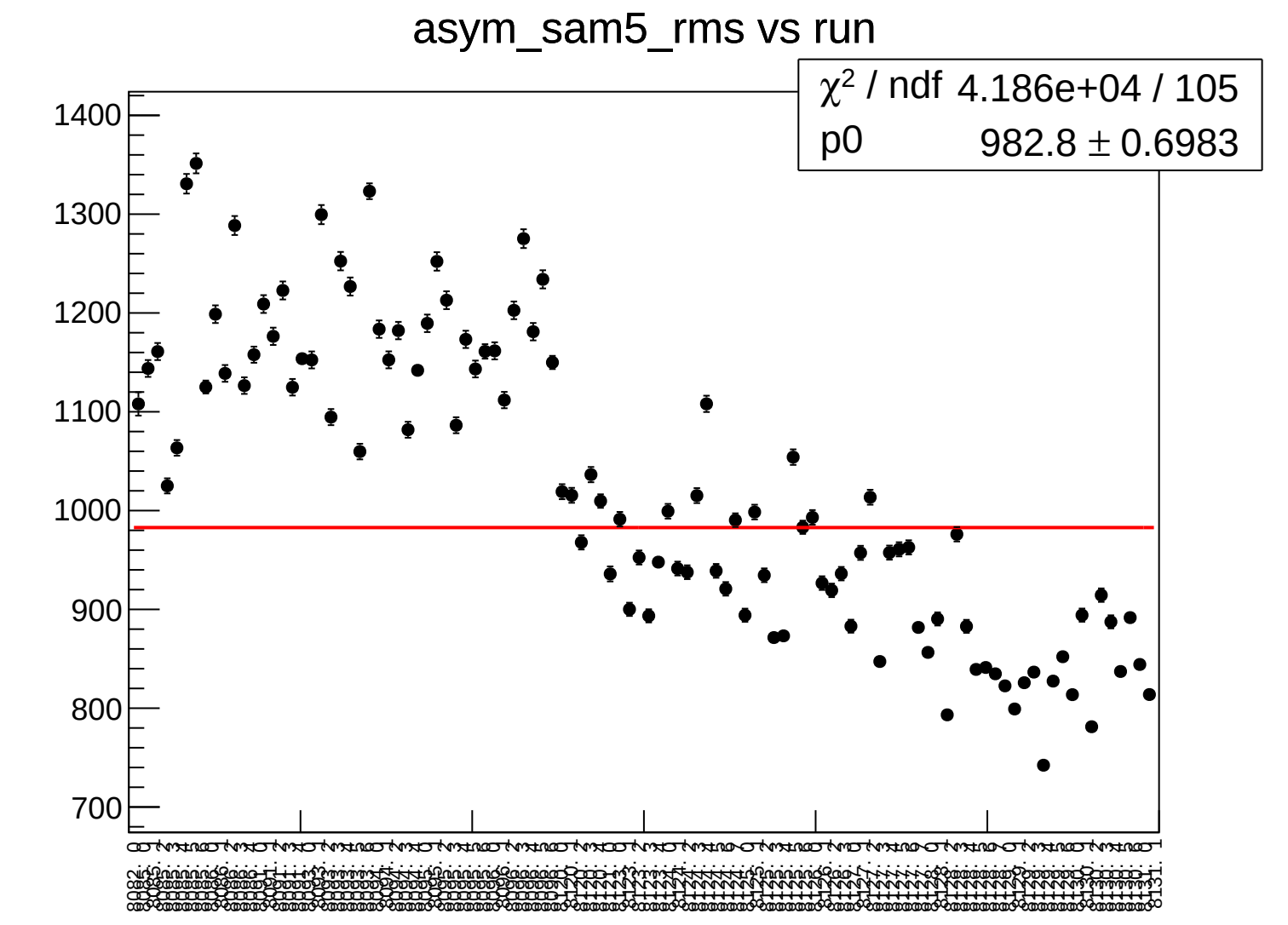

asym_sam5_eigen_dit_correction_mean vs run
χ² / ndf 95.71 / 104
p0 −102 ± 1008
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 105
Mean 618.9
Std Dev 0
2
1
0
−1
−2

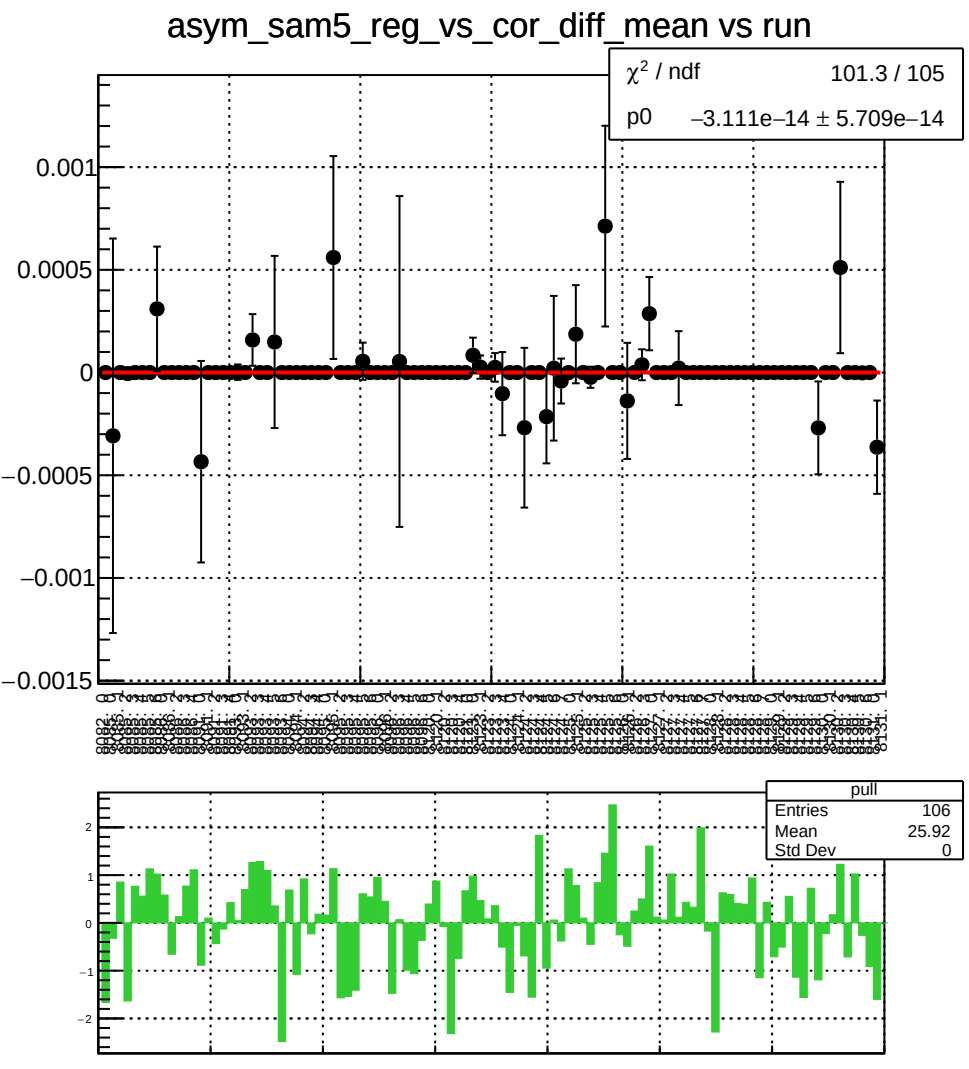

pull1D
Entries 105
Mean −0.001016
Std Dev 0.9547
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

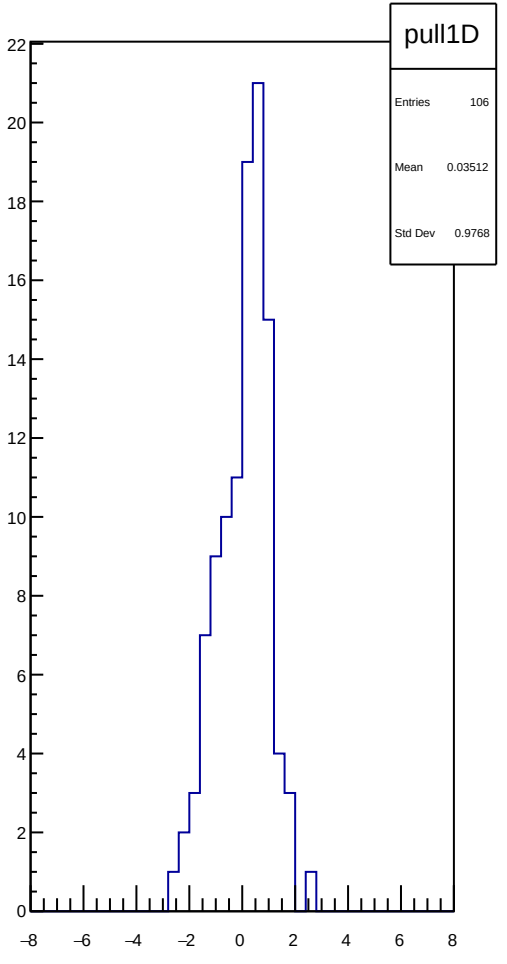

asym_sam5_eigen_dit_correction_rms vs run
χ² / ndf 4.311e+04 / 104
p0 1000 ± 0.7125
1400
1300
1200
1100
1000
900
800
700

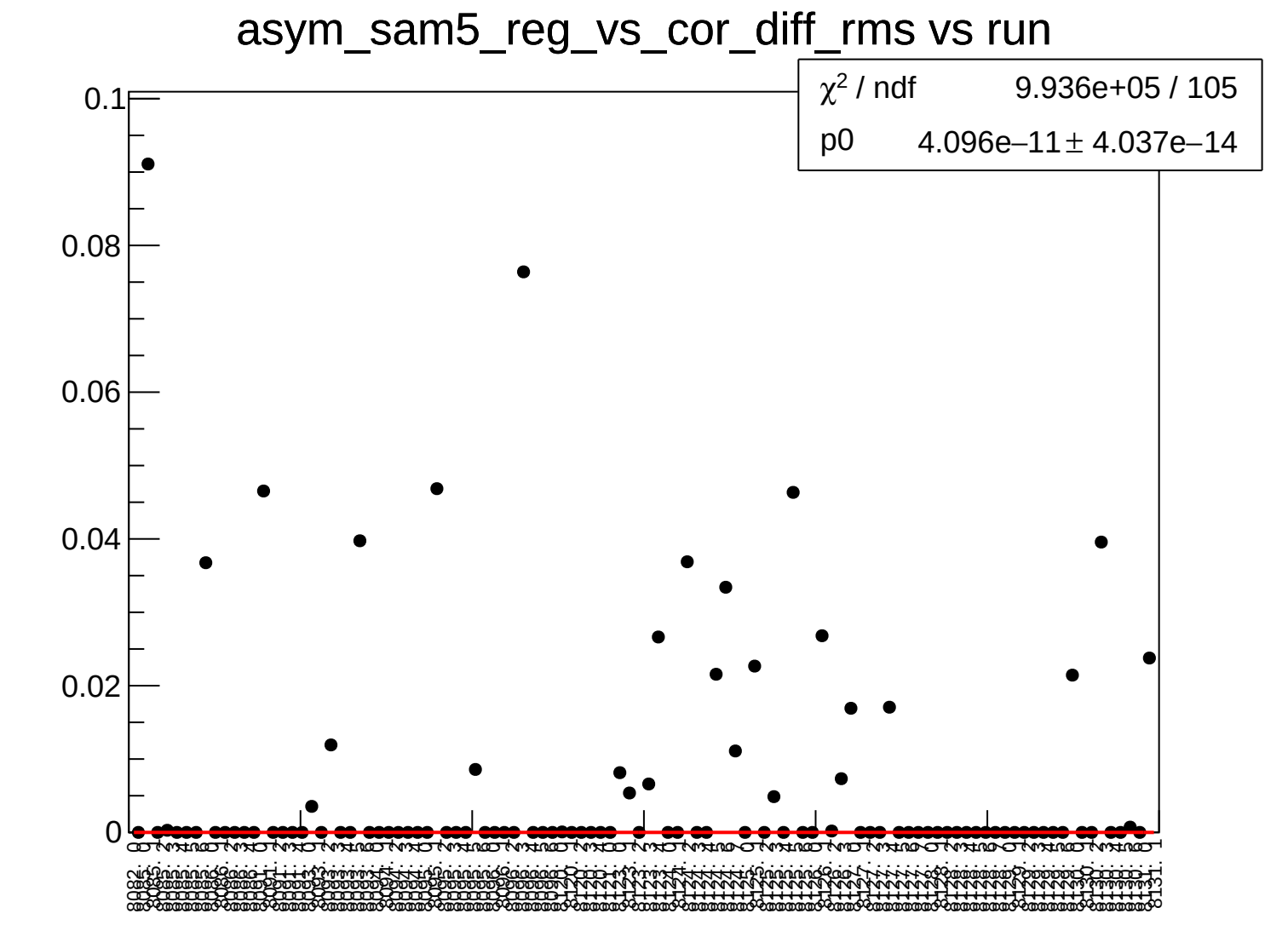

asym_sam5_mean vs run
$\chi^2$ / ndf 94.44 / 105
p0 50.45 ± 987.5
pull
Entries 106
Mean −127
Std Dev 0

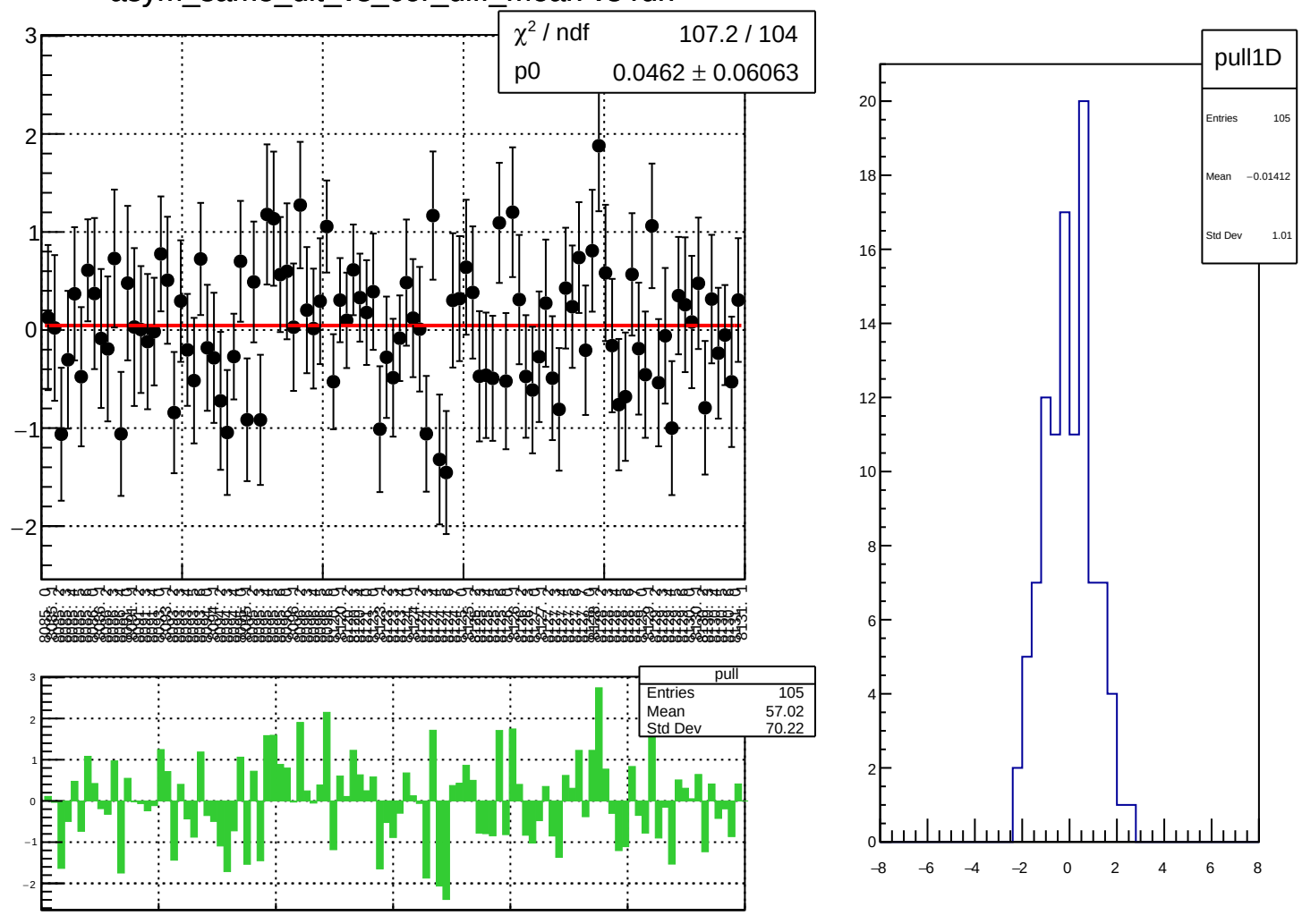

pull1D
Entries 106
Mean −0.00359
Std Dev 0.9439

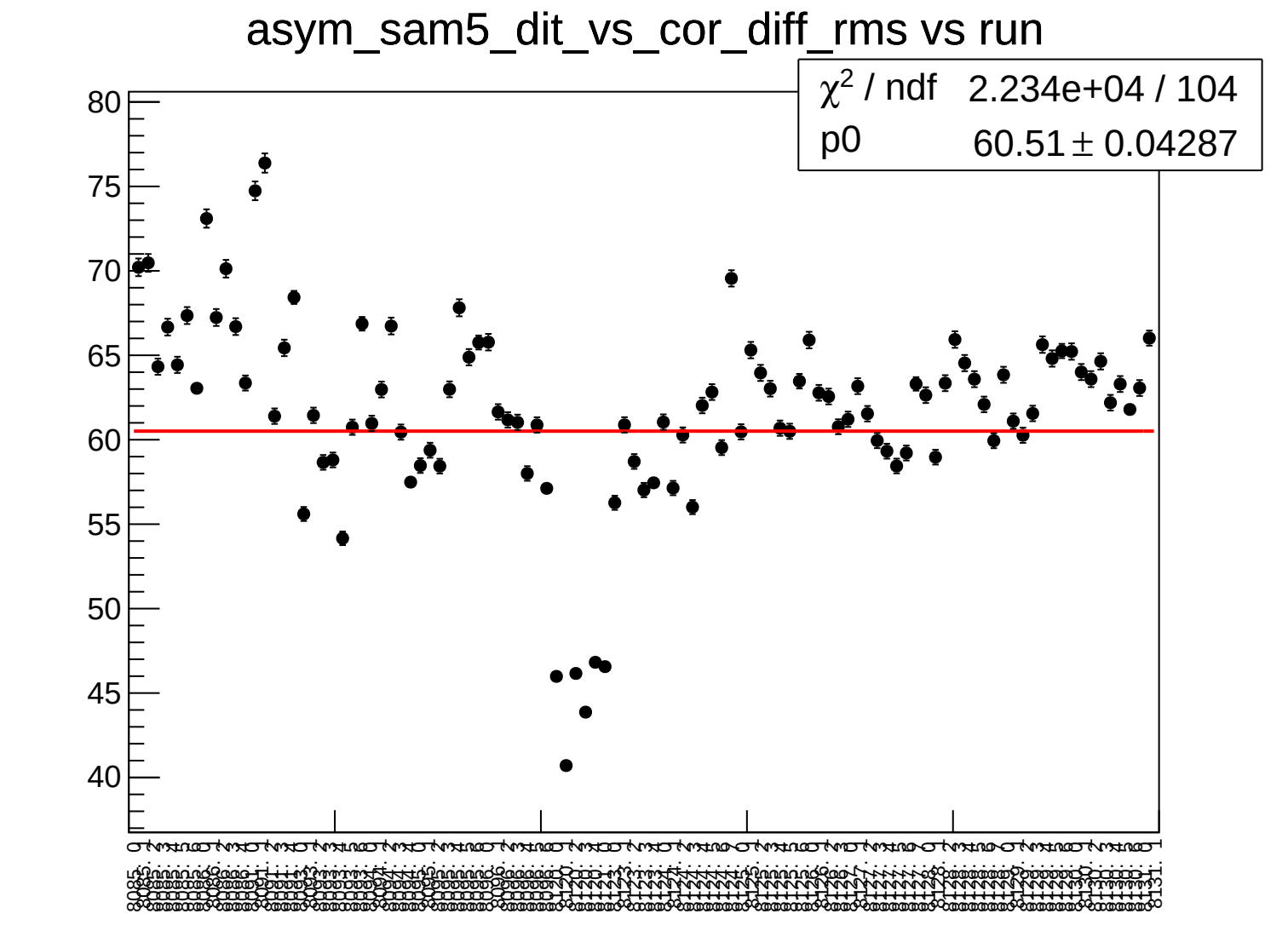

asym_sam5_rms vs run
$\chi^2$ / ndf 4.186e+04 / 105
p0 982.8 ± 0.6983
1400
1300
1200
1100
1000
900
800
700

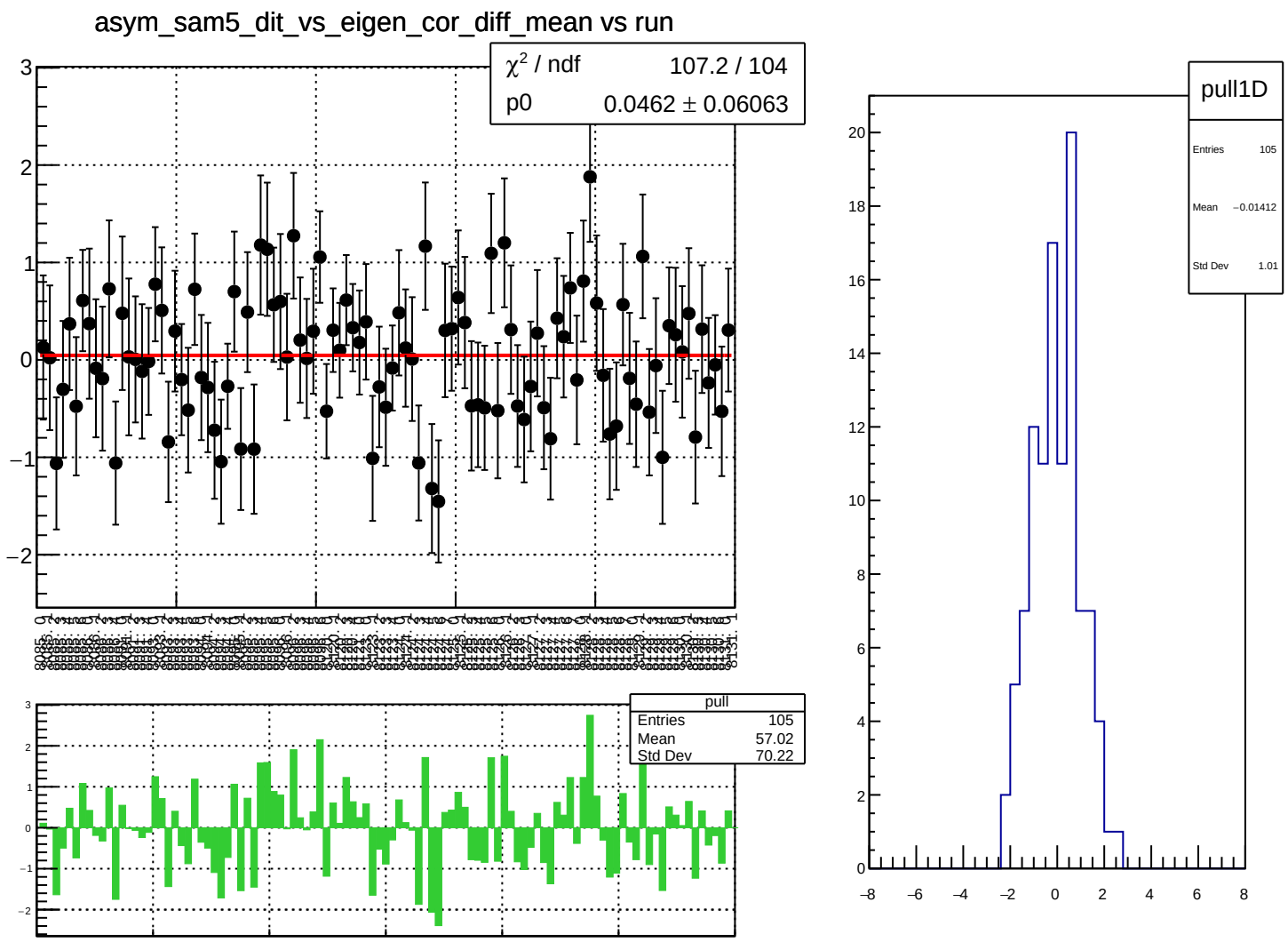

asym_sam5_reg_vs_cor_diff_mean vs run
χ² / ndf 101.3 / 105
p0 −3.111e−14 ± 5.709e−14
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 106
Mean 25.92
Std Dev 0
2
1
0
−1
−2

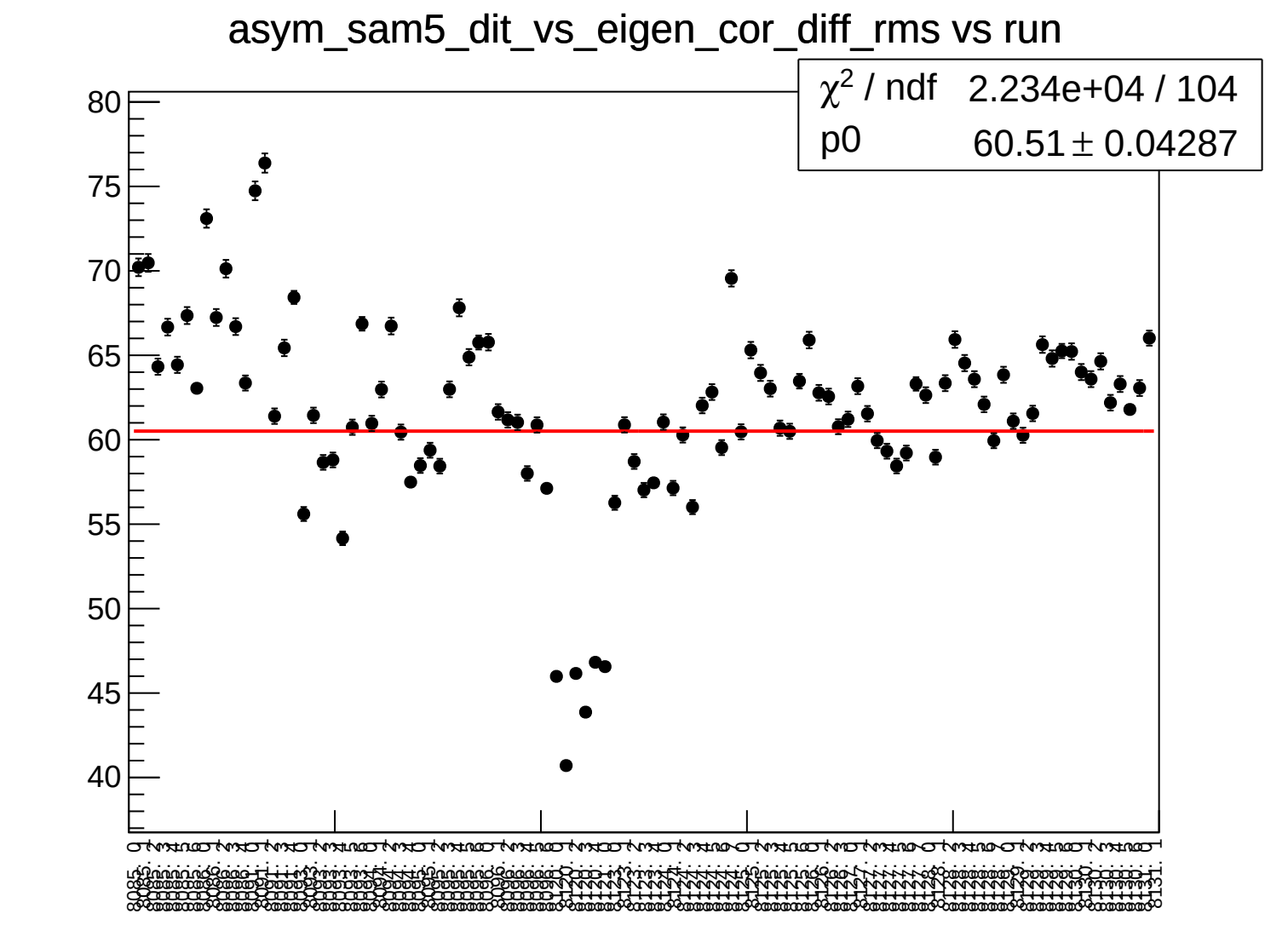

pull1D
Entries 106
Mean 0.03512
Std Dev 0.9768
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

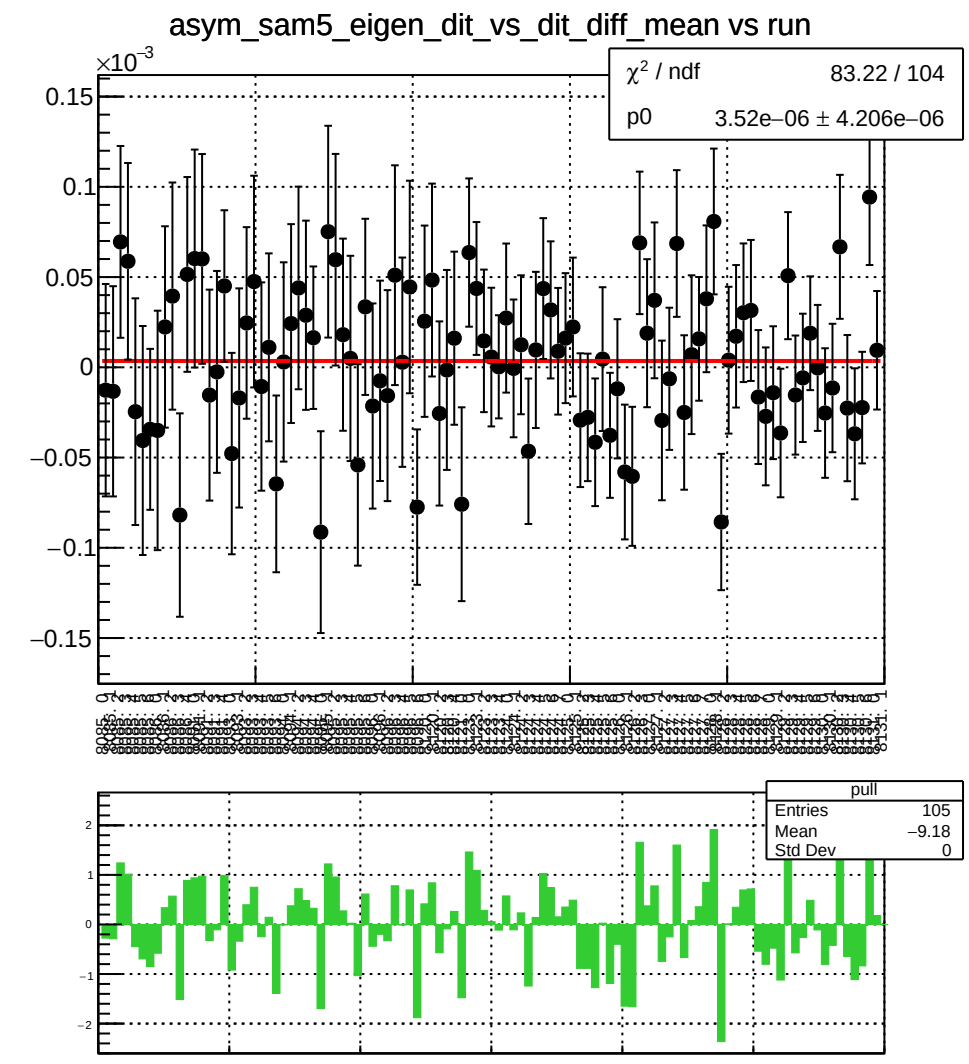

asym_sam5_reg_vs_cor_diff_rms vs run
$\chi^2$ / ndf 9.936e+05 / 105
p0 4.096e−11 ± 4.037e−14
0.1
0.08
0.06
0.04
0.02
0

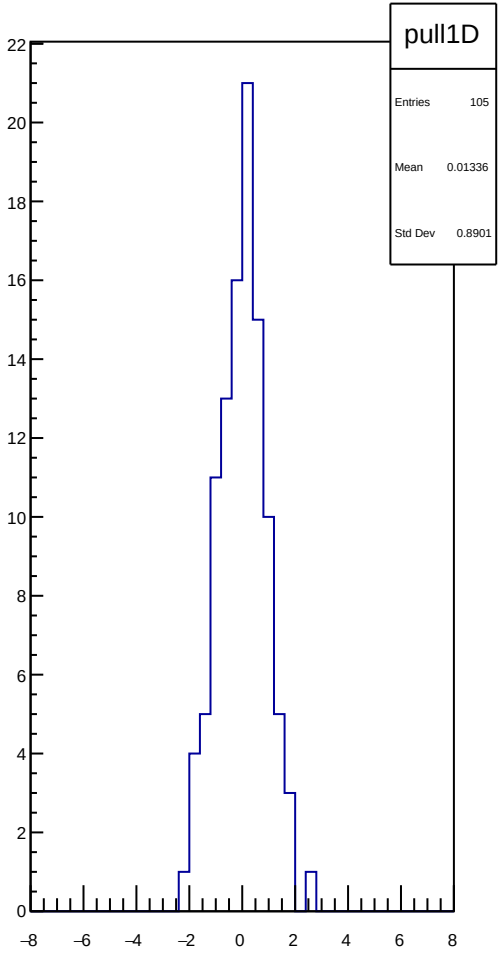

asym_sam5_dit_vs_cor_diff_mean vs run
χ² / ndf 107.2 / 104
p0 0.0462 ± 0.06063
pull
Entries 105
Mean 57.02
Std Dev 70.22
pull1D
Entries 105
Mean −0.01412
Std Dev 1.01

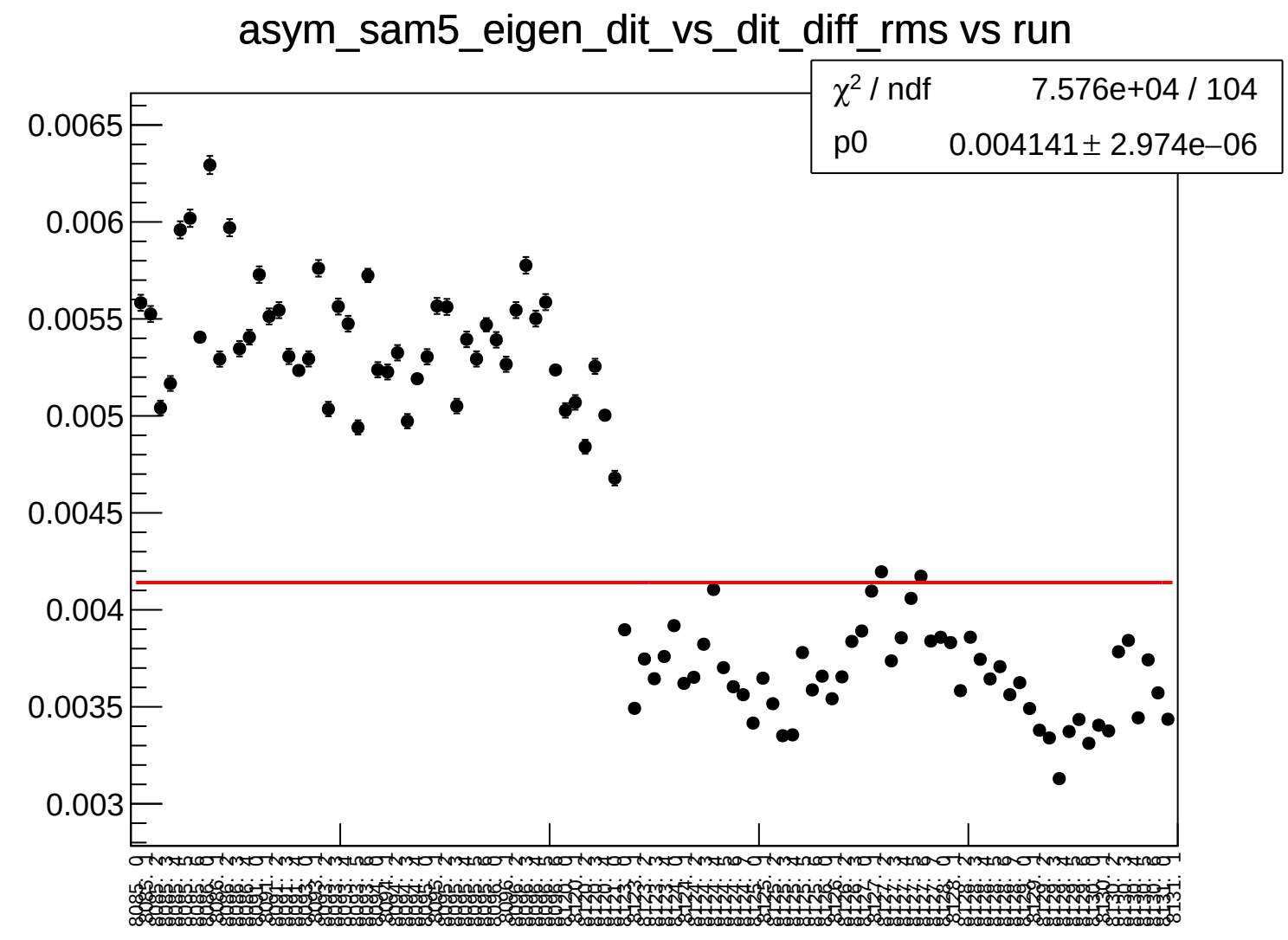

asym_sam5_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 2.234e+04 / 104
p0 60.51 ± 0.04287
80
75
70
65
60
55
50
45
40

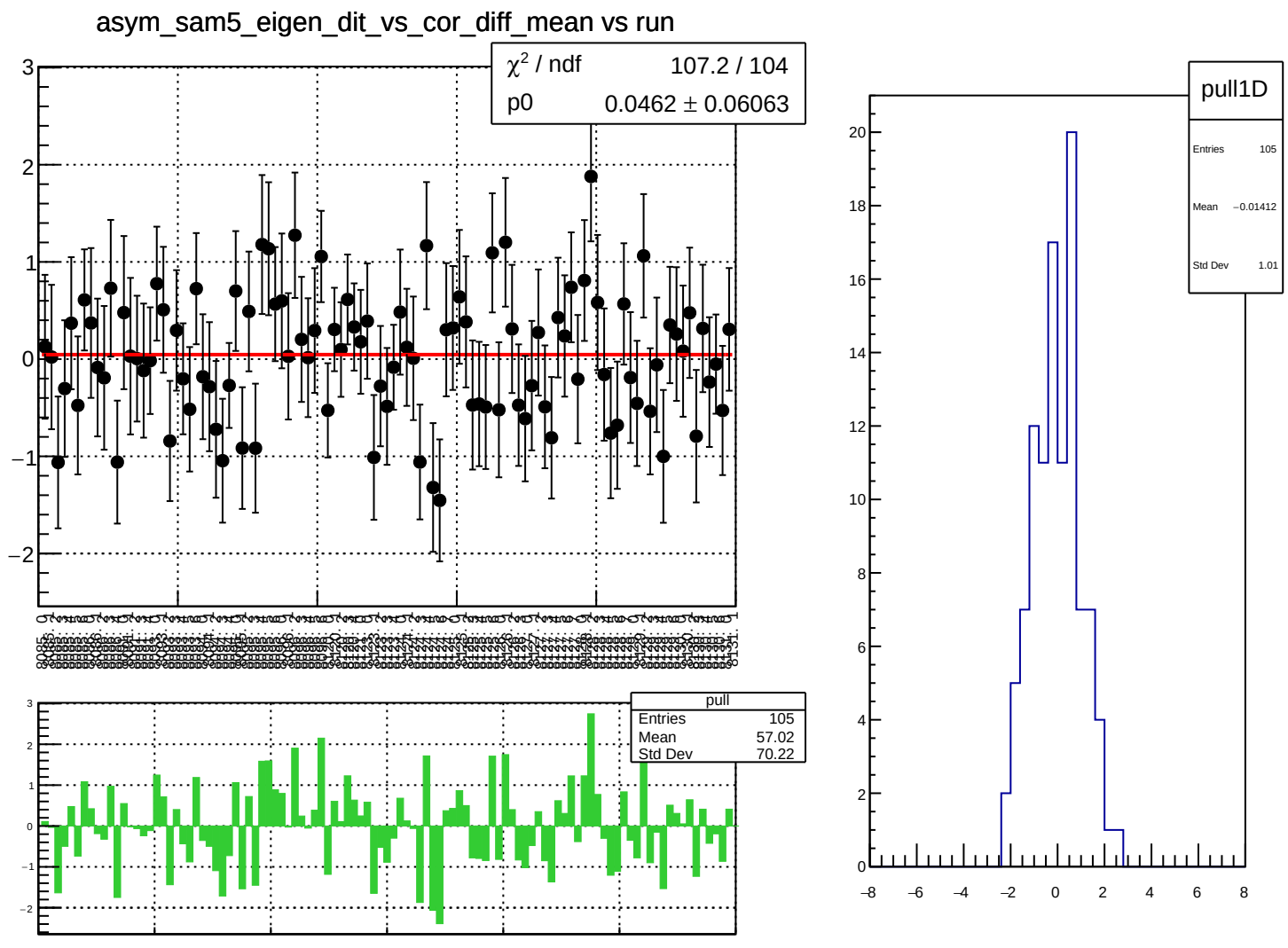

asym_sam5_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.2 / 104
p0 0.0462 ± 0.06063
pull
Entries 105
Mean 57.02
Std Dev 70.22
pull1D
Entries 105
Mean −0.01412
Std Dev 1.01

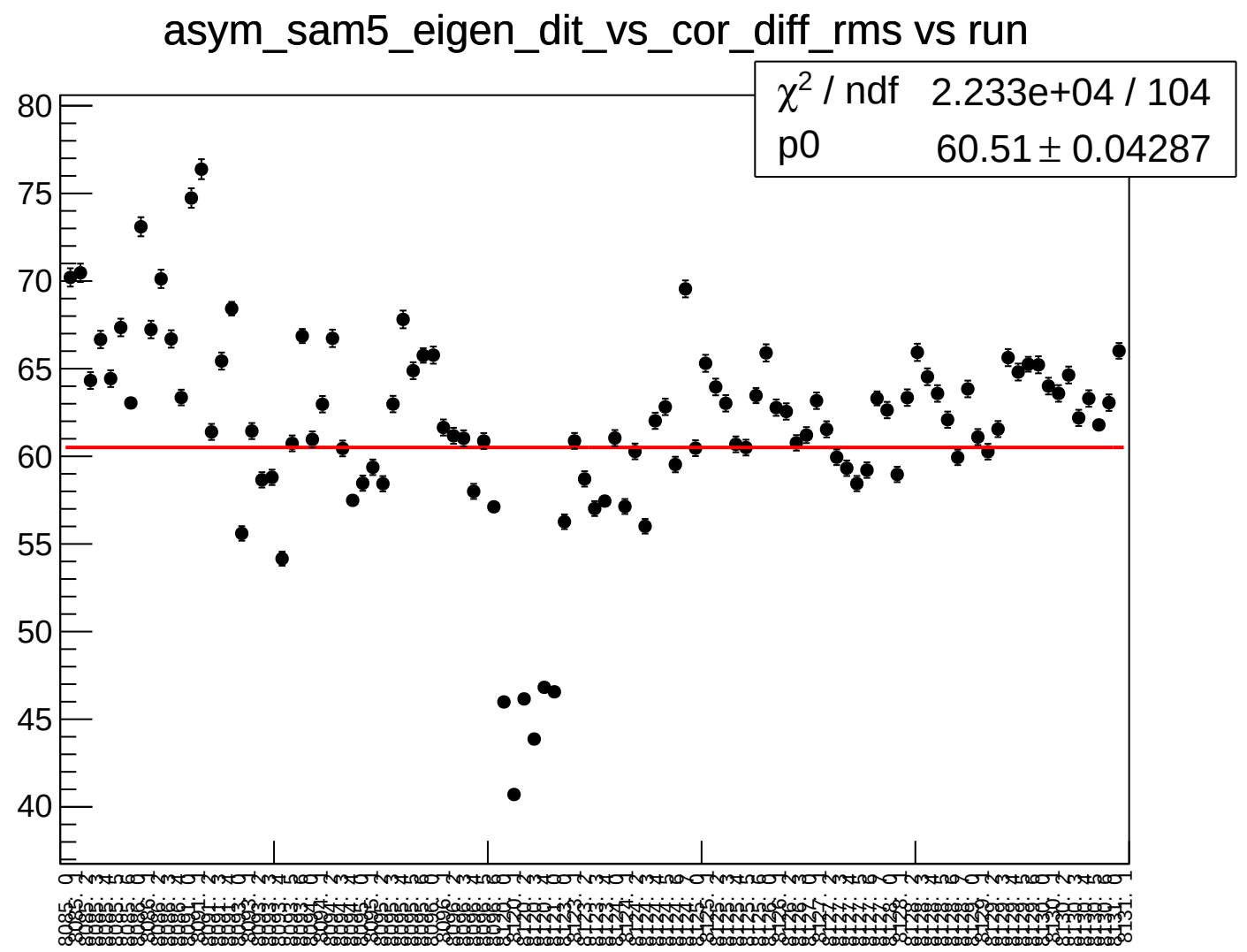

asym_sam5_dit_vs_eigen_cor_diff_rms vs run
$\chi^2$ / ndf 2.234e+04 / 104
p0 60.51 ± 0.04287
80
75
70
65
60
55
50
45
40

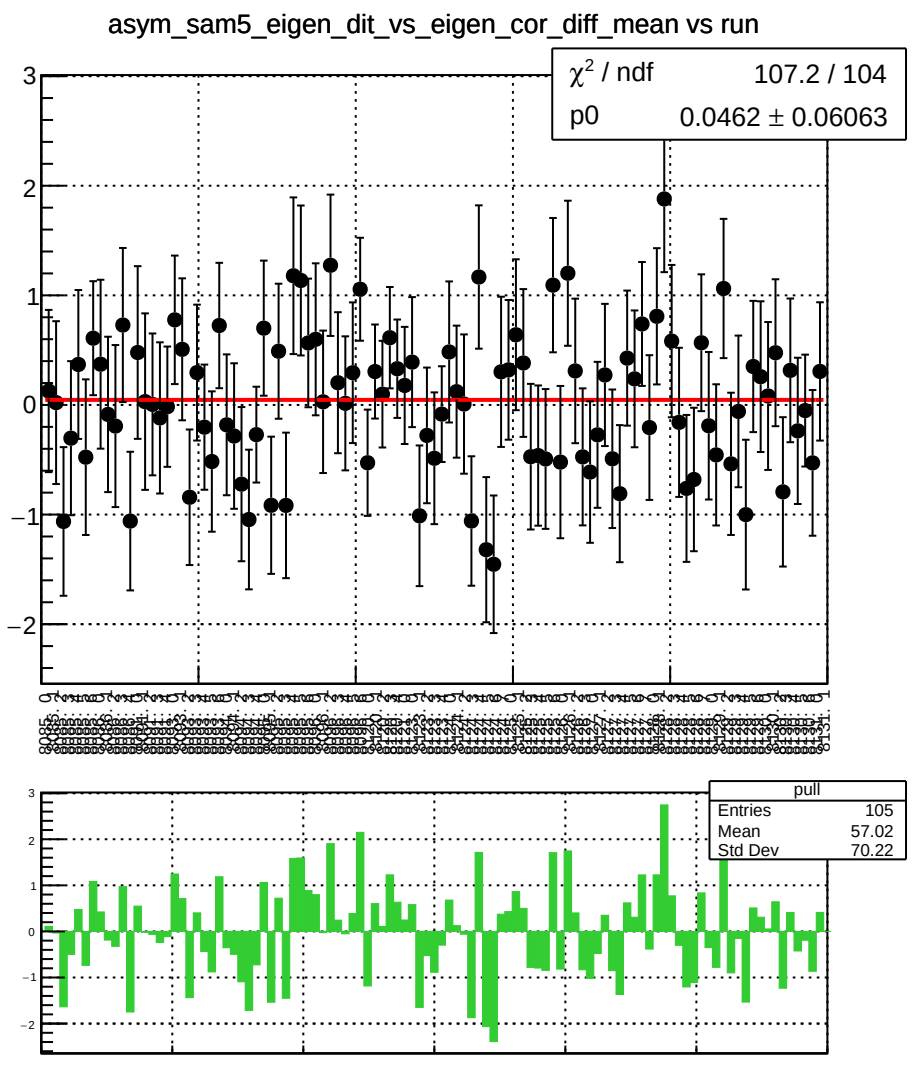

asym_sam5_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 83.22 / 104
p0 3.52e−06 ± 4.206e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 105
Mean −9.18
Std Dev 0
2
1
0
−1
−2

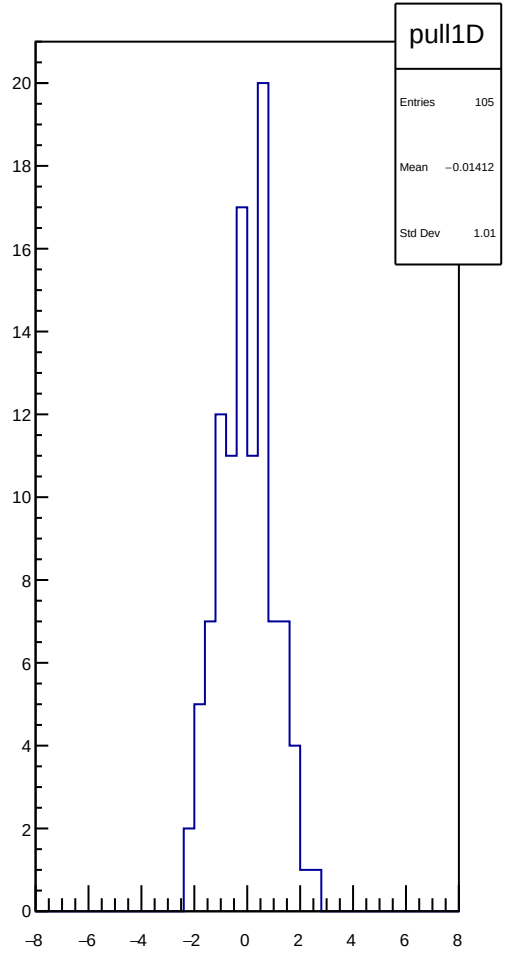

pull1D
Entries 105
Mean 0.01336
Std Dev 0.8901
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

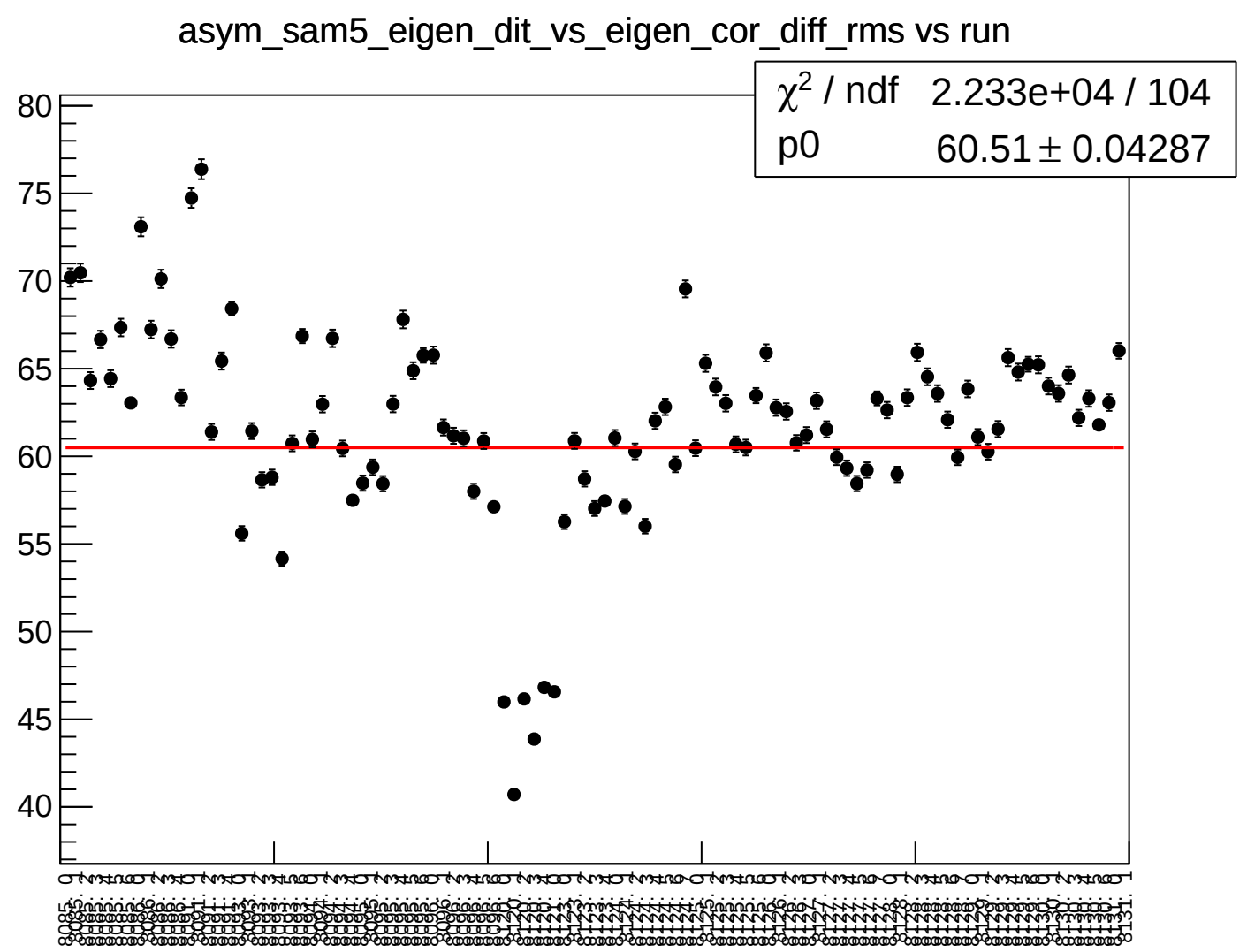

asym_sam5_eigen_dit_vs_dit_diff_rms vs run
$\chi^2$ / ndf 7.576e+04 / 104
p0 0.004141 ± 2.974e−06
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003

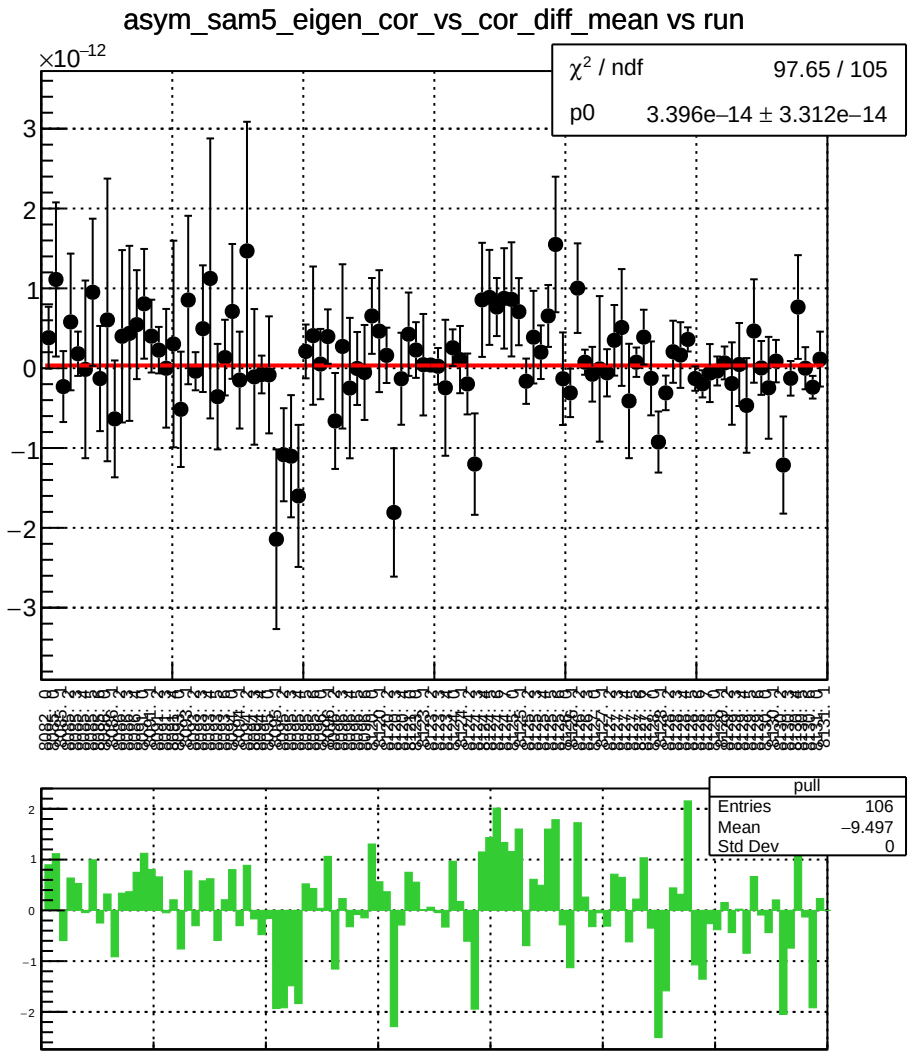

asym_sam5_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 107.2 / 104
p0 0.0462 ± 0.06063
pull
Entries 105
Mean 57.02
Std Dev 70.22
pull1D
Entries 105
Mean −0.01412
Std Dev 1.01

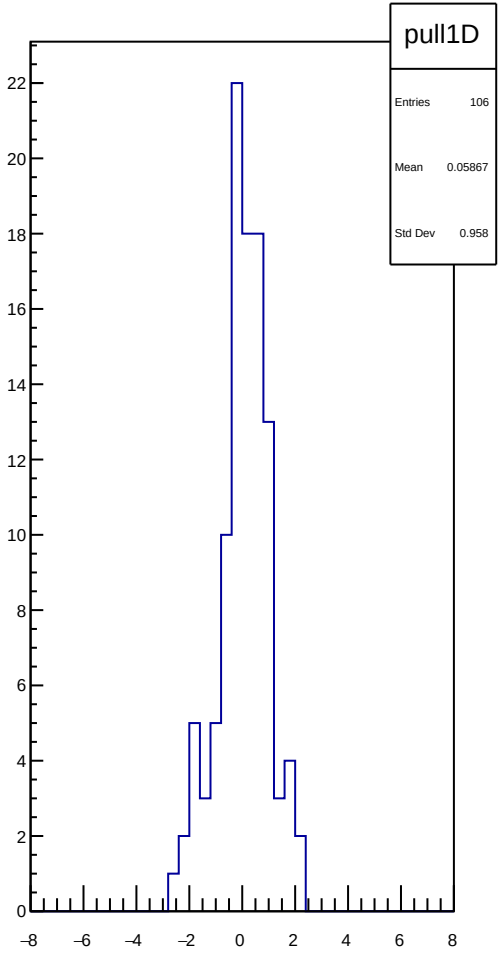

asym_sam5_eigen_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 2.233e+04 / 104
p0 60.51 ± 0.04287
80
75
70
65
60
55
50
45
40

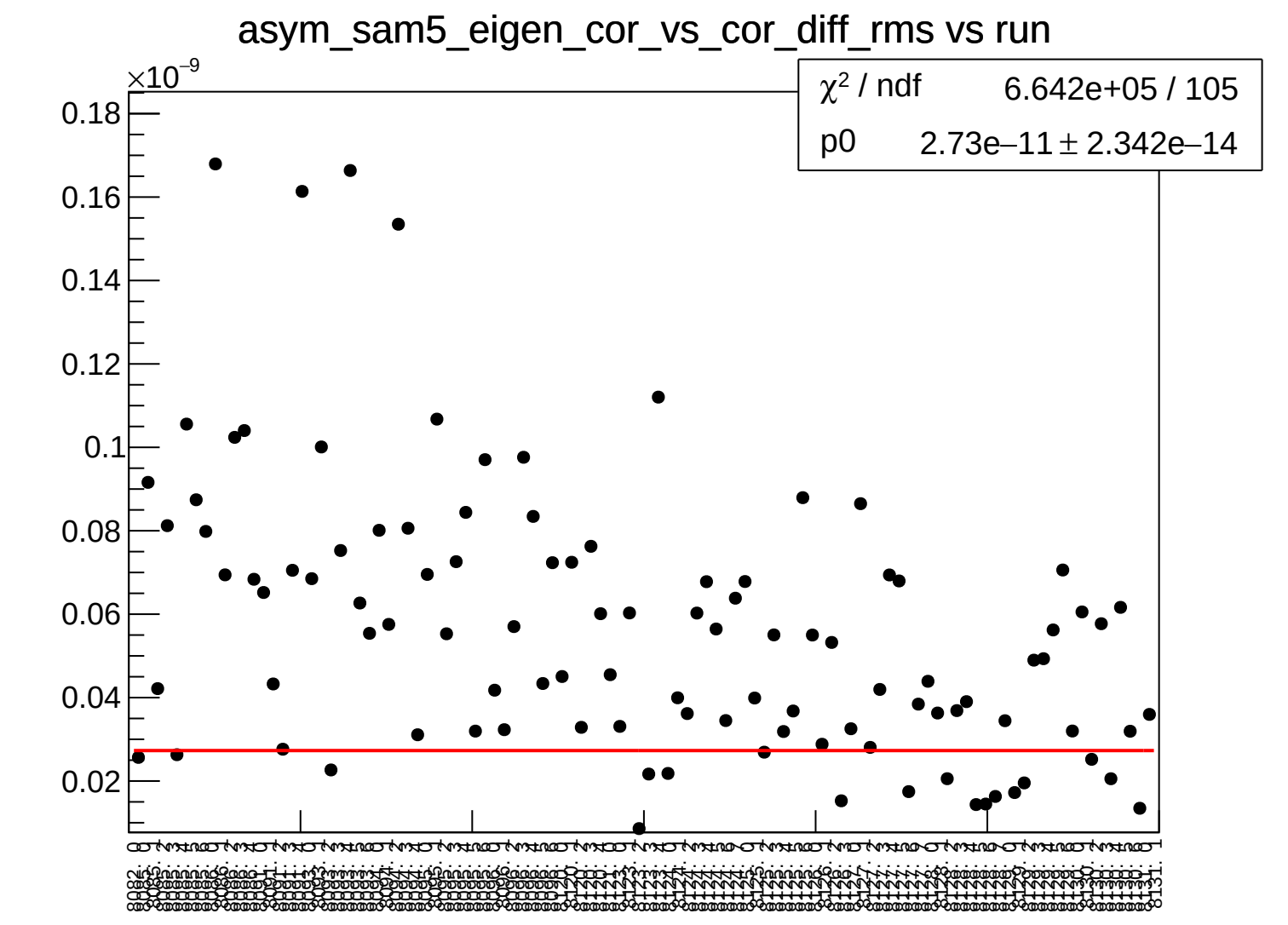

asym_sam5_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.2 / 104
p0 0.0462 ± 0.06063
pull
Entries 105
Mean 57.02
Std Dev 70.22

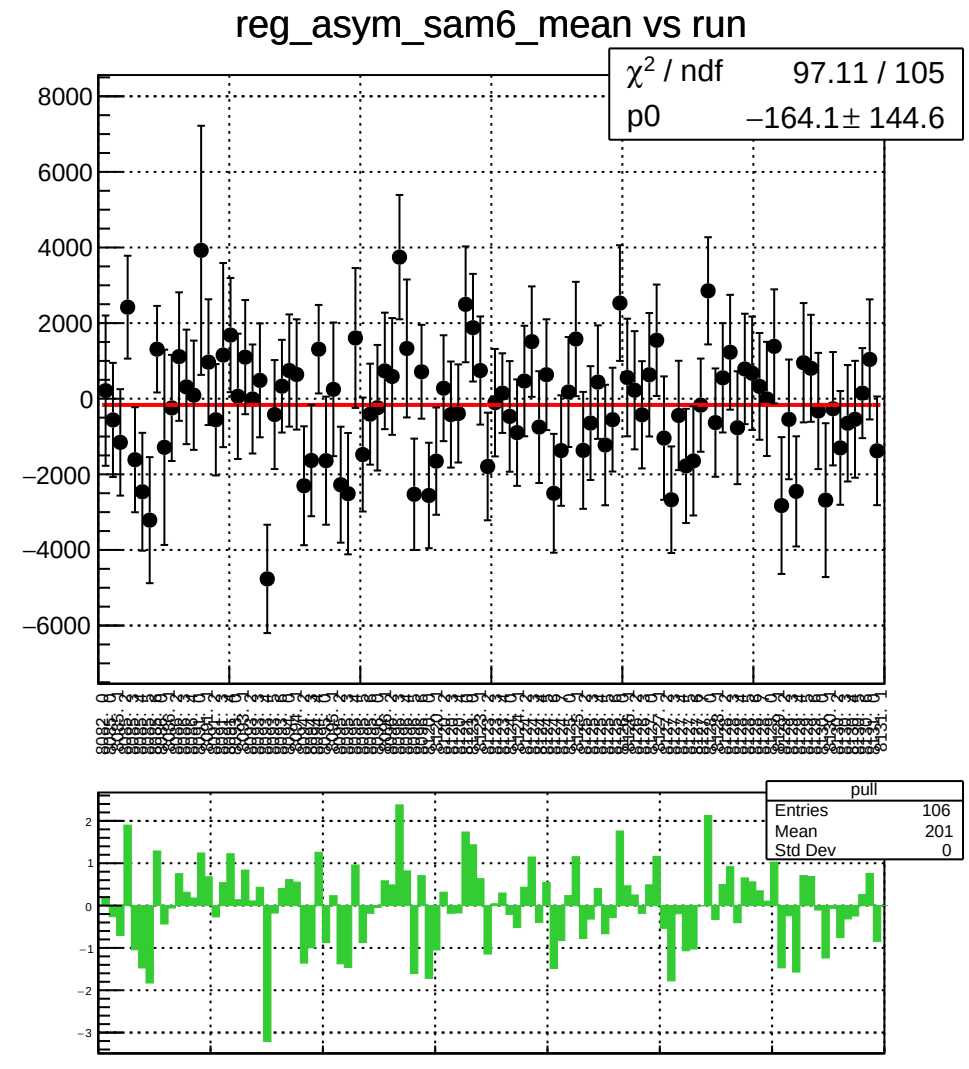

pull1D
Entries 105
Mean −0.01412
Std Dev 1.01

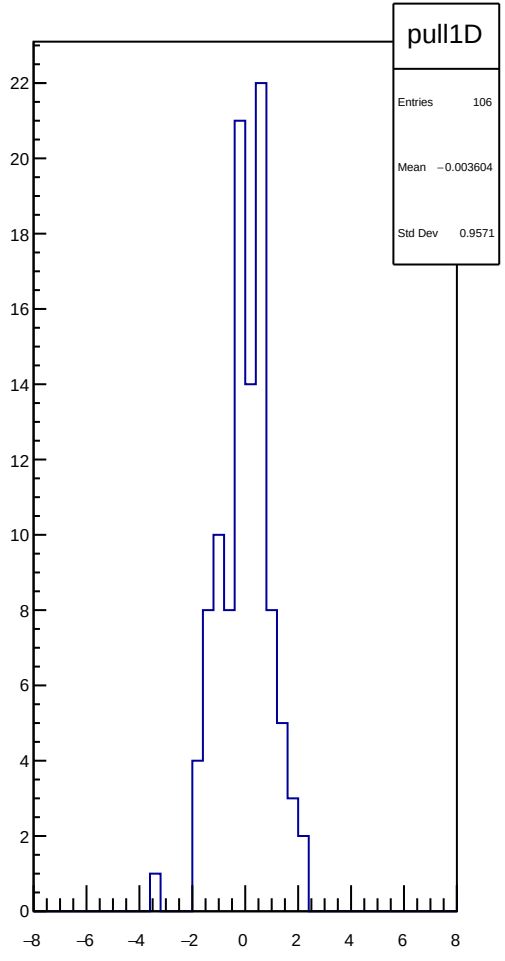

asym_sam5_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.233e+04 / 104
p0 60.51 ± 0.04287
80
75
70
65
60
55
50
45
40

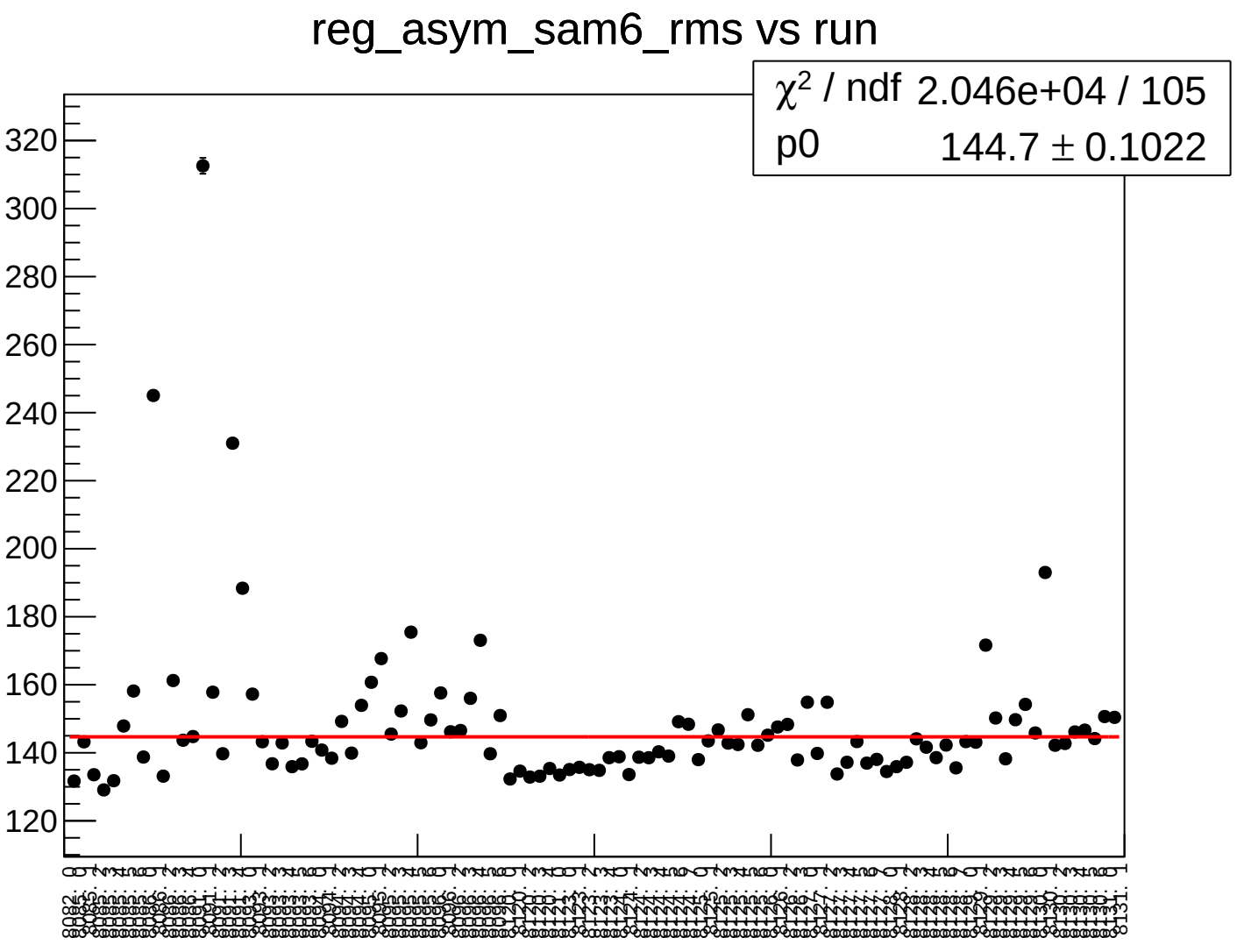

asym_sam5_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 97.65 / 105
p0 3.396e−14 ± 3.312e−14
pull
Entries 106
Mean −9.497
Std Dev 0

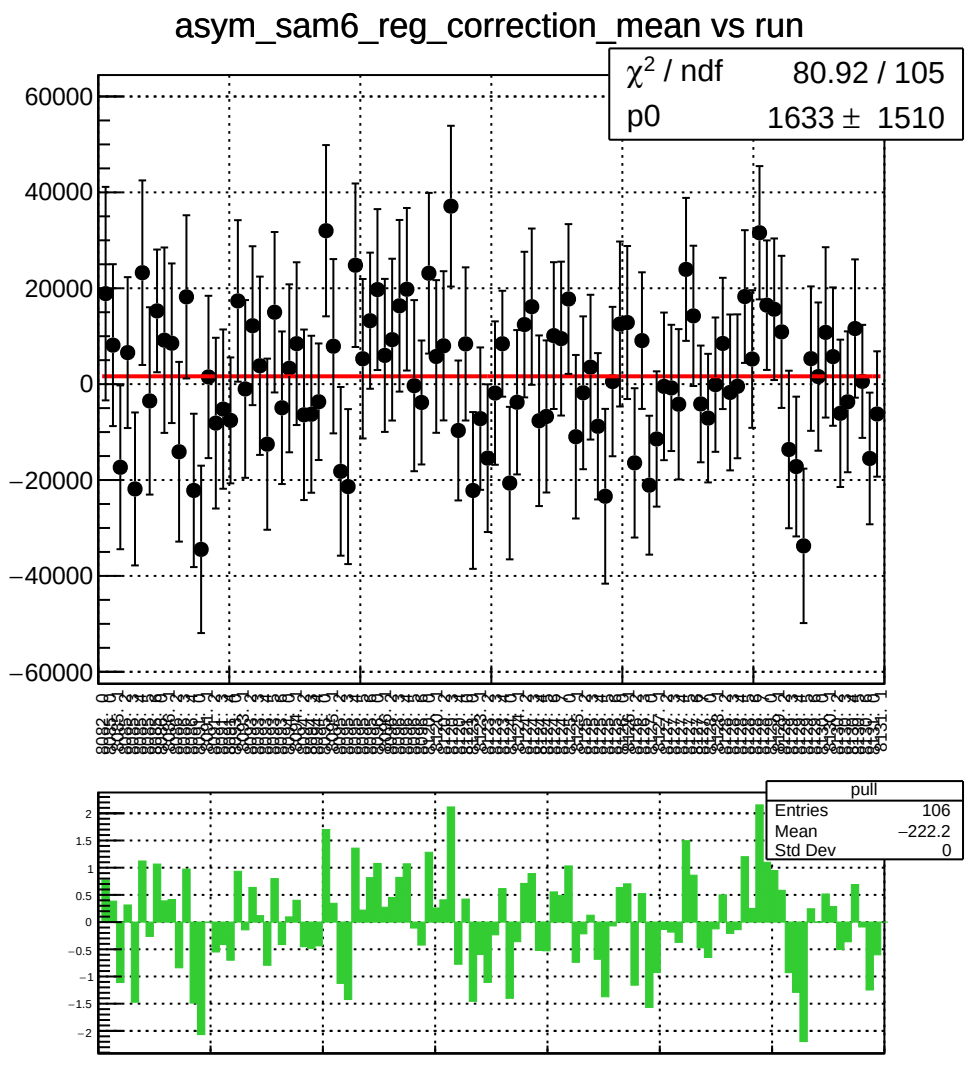

pull1D
Entries 106
Mean 0.05867
Std Dev 0.958

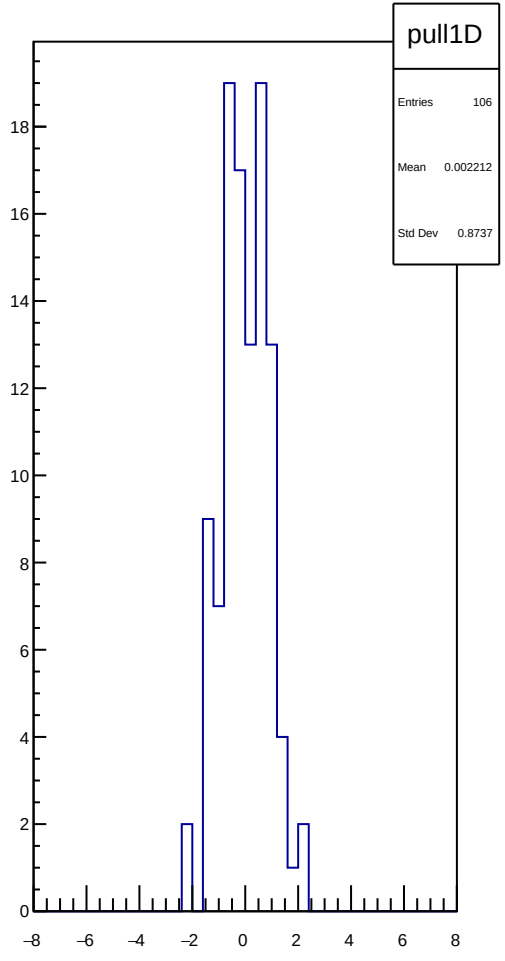

asym_sam5_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
χ² / ndf 6.642e+05 / 105
p0 2.73e−11 ± 2.342e−14

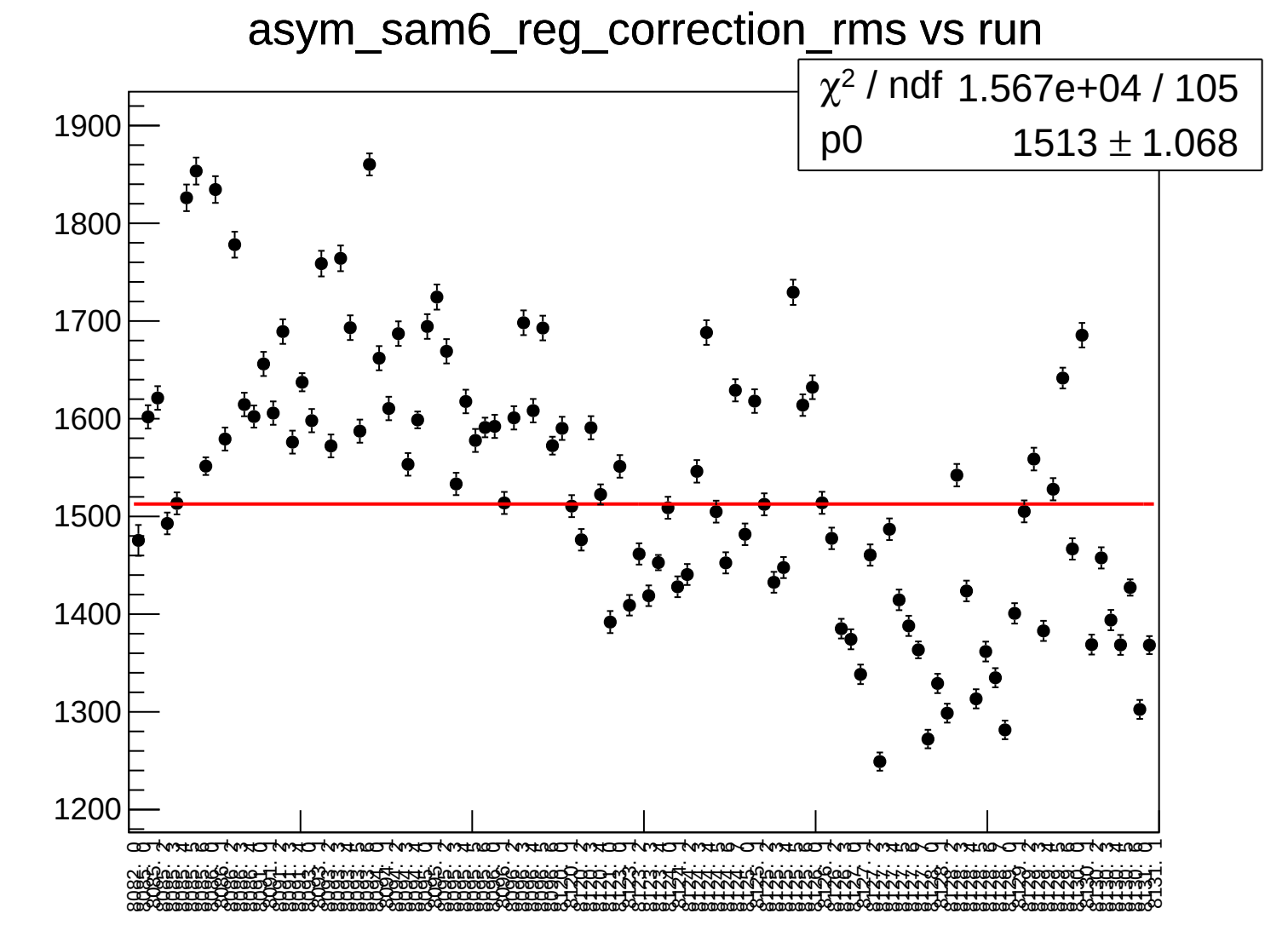

reg_asym_sam6_mean vs run
$\chi^2$ / ndf 97.11 / 105
p0 −164.1± 144.6
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 106
Mean 201
Std Dev 0
2
1
0
−1
−2
−3

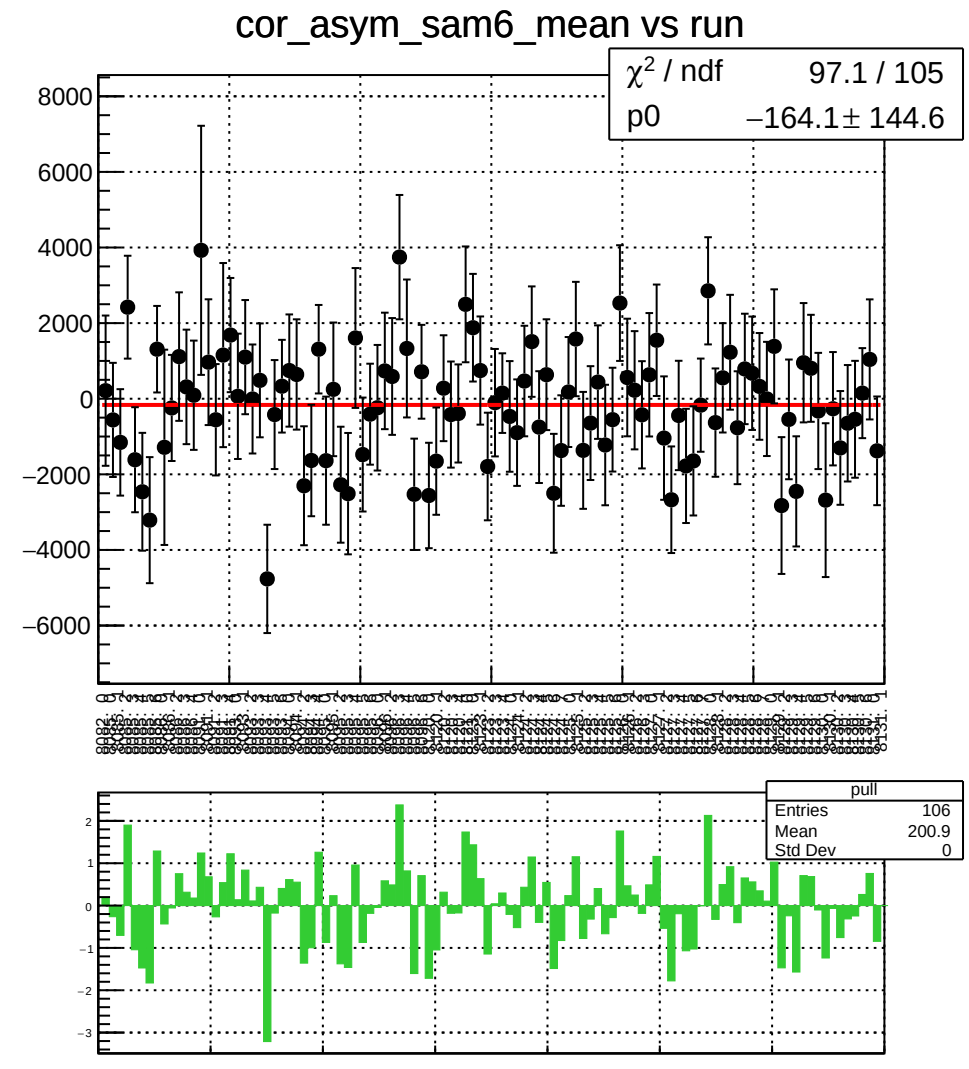

pull1D
Entries 106
Mean −0.003604
Std Dev 0.9571
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

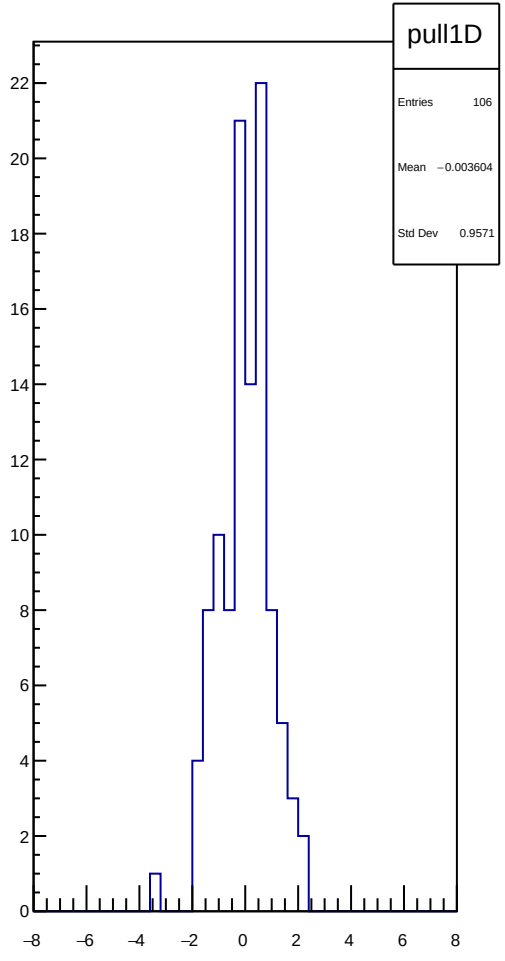

reg_asym_sam6_rms vs run
χ² / ndf 2.046e+04 / 105
p0 144.7 ± 0.1022
320
300
280
260
240
220
200
180
160
140
120

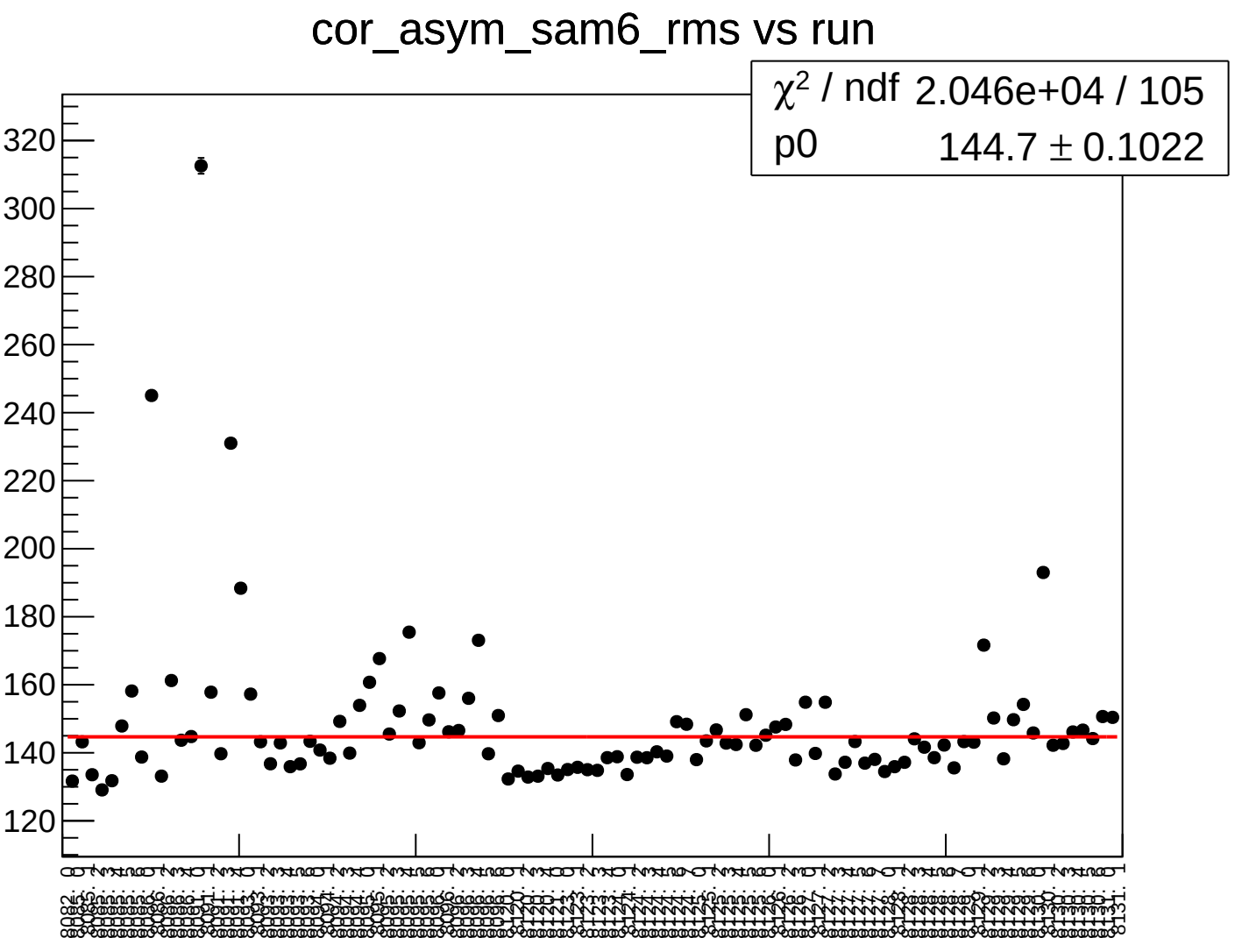

asym_sam6_reg_correction_mean vs run
χ² / ndf 80.92 / 105
p0 1633 ± 1510
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean −222.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

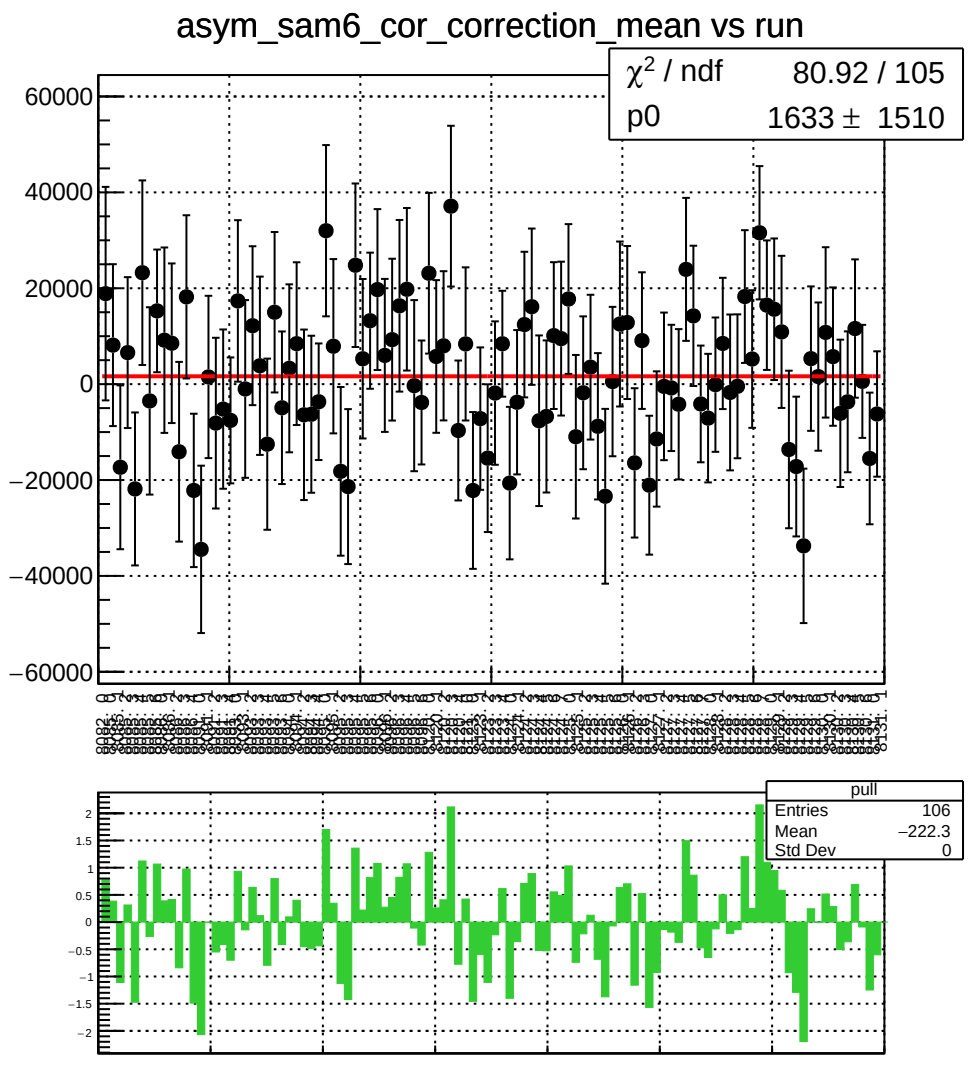

pull1D
Entries 106
Mean 0.002212
Std Dev 0.8737
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

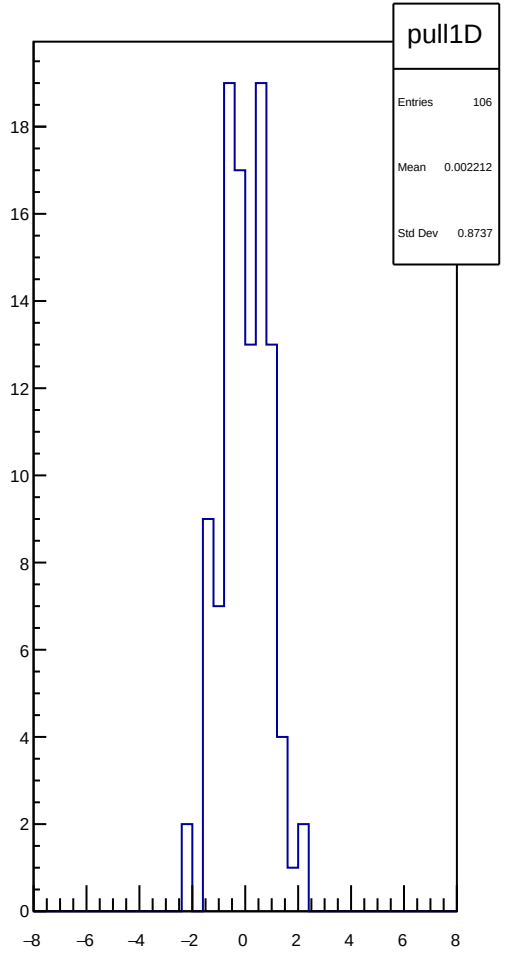

asym_sam6_reg_correction_rms vs run
χ² / ndf 1.567e+04 / 105
p0 1513 ± 1.068
1900
1800
1700
1600
1500
1400
1300
1200

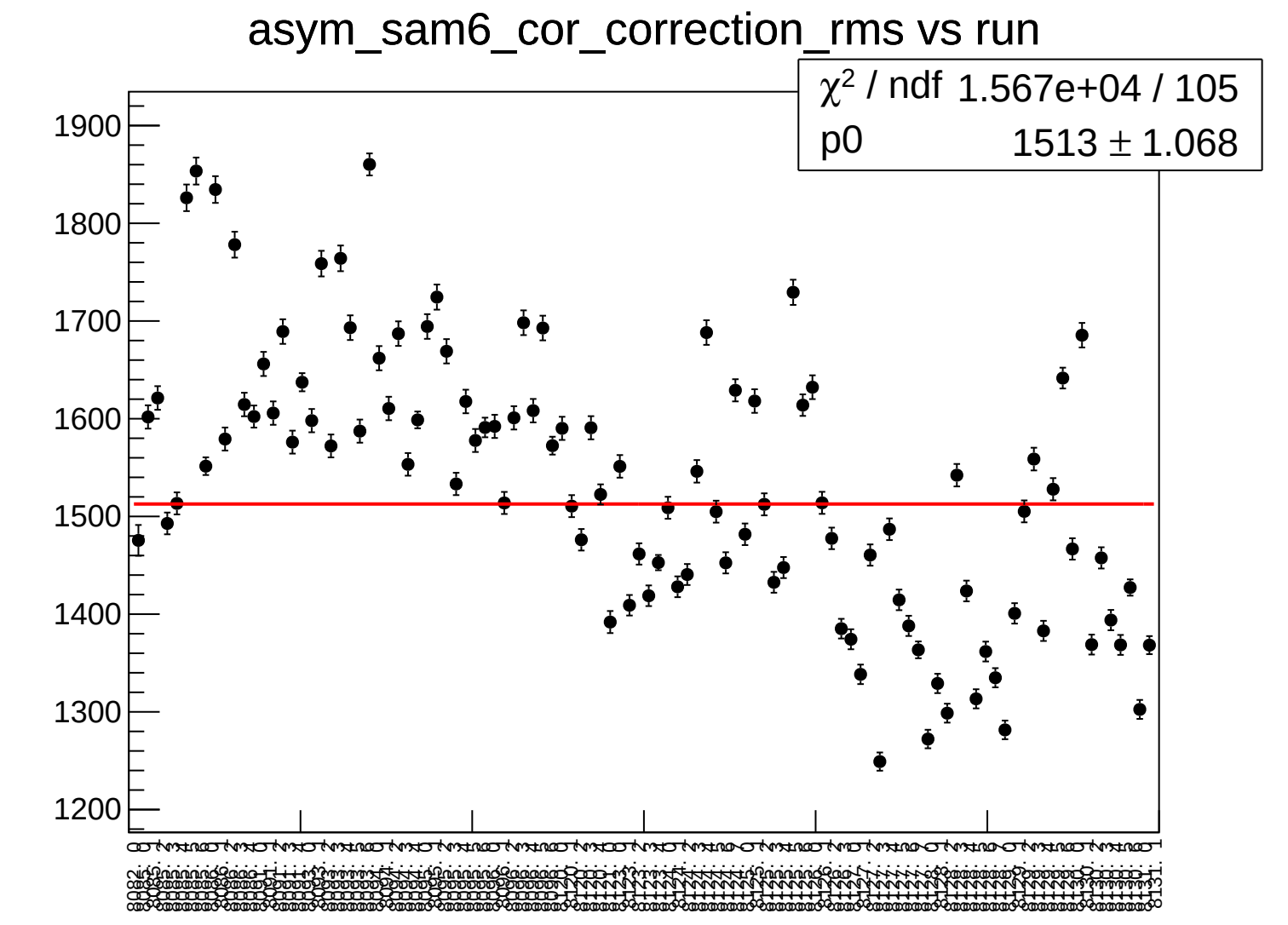

cor_asym_sam6_mean vs run
χ² / ndf 97.1 / 105
p0 −164.1± 144.6
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 106
Mean 200.9
Std Dev 0
2
1
0
−1
−2
−3

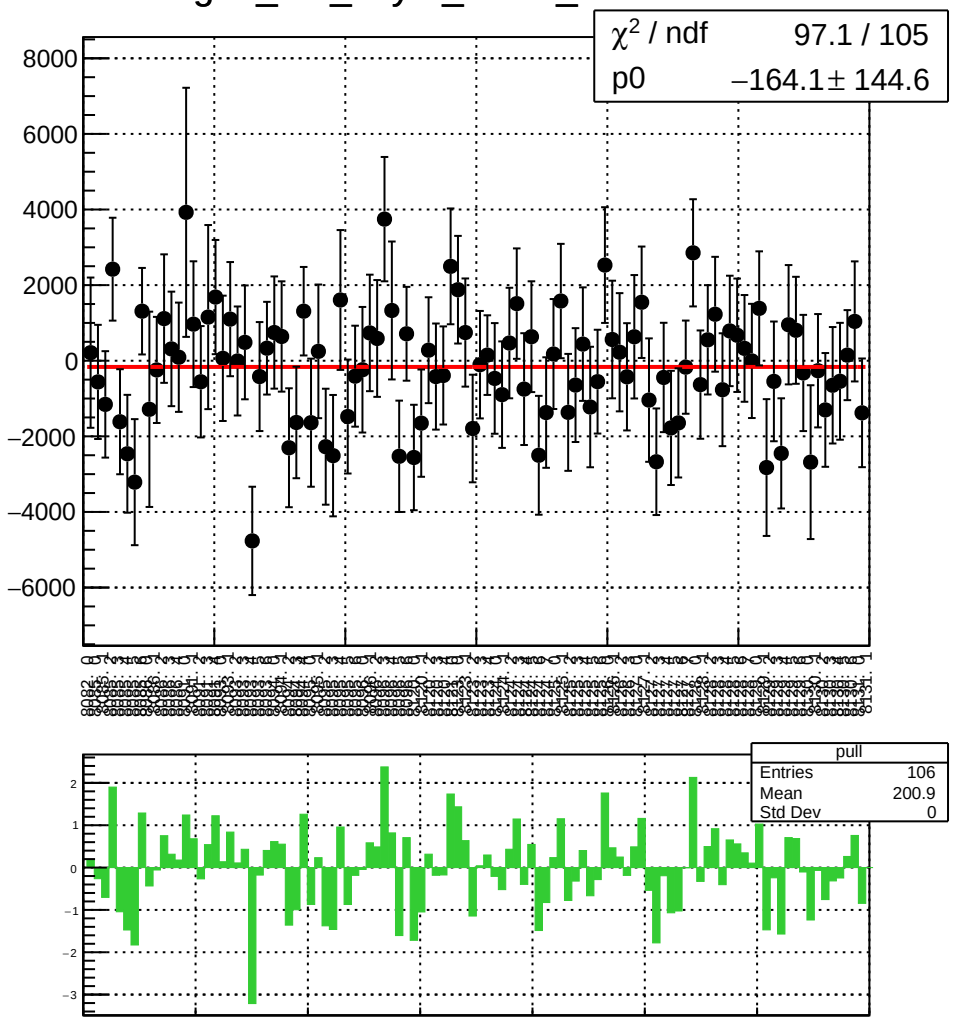

pull1D
Entries 106
Mean −0.003604
Std Dev 0.9571
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

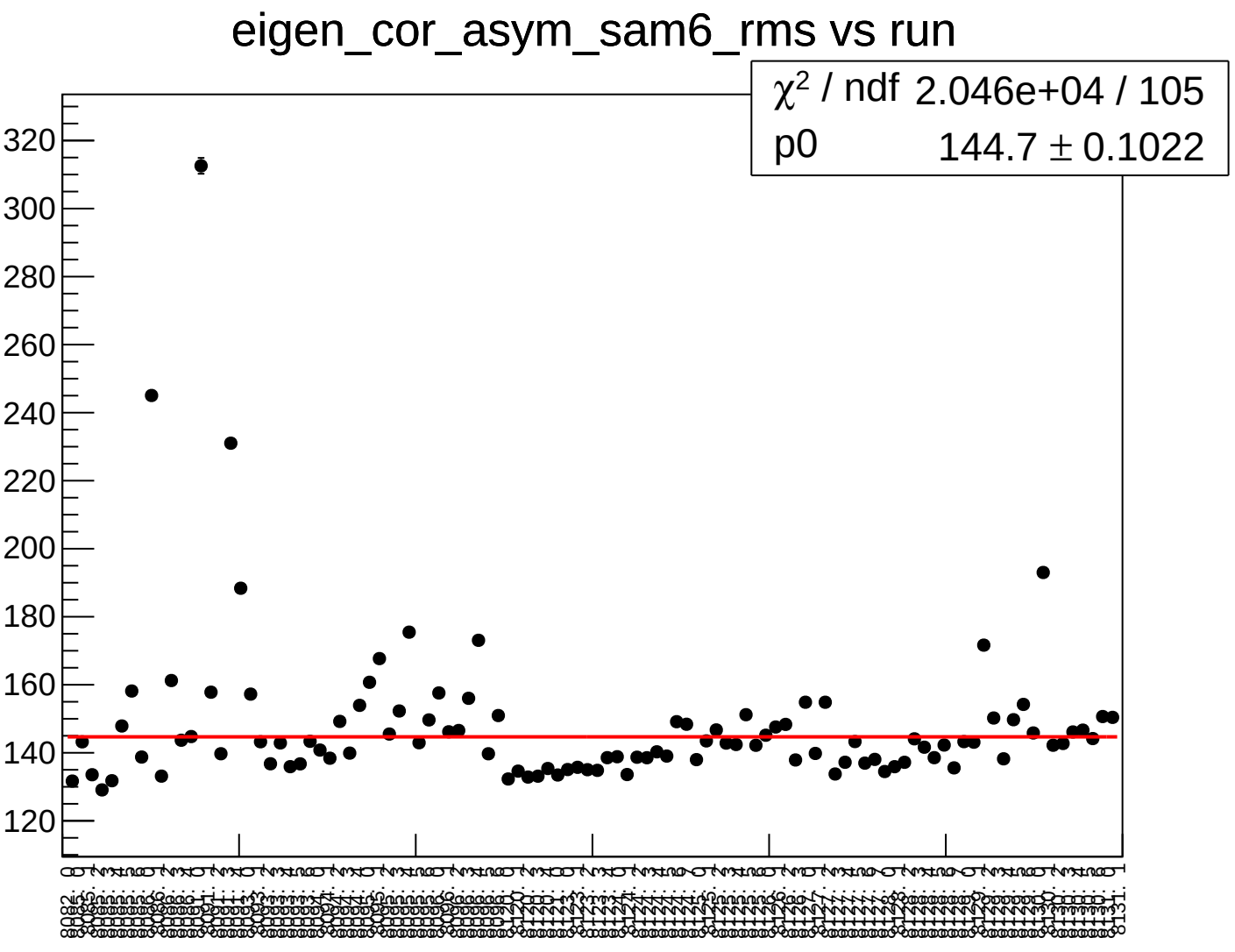

cor_asym_sam6_rms vs run
χ² / ndf 2.046e+04 / 105
p0 144.7 ± 0.1022
320
300
280
260
240
220
200
180
160
140
120

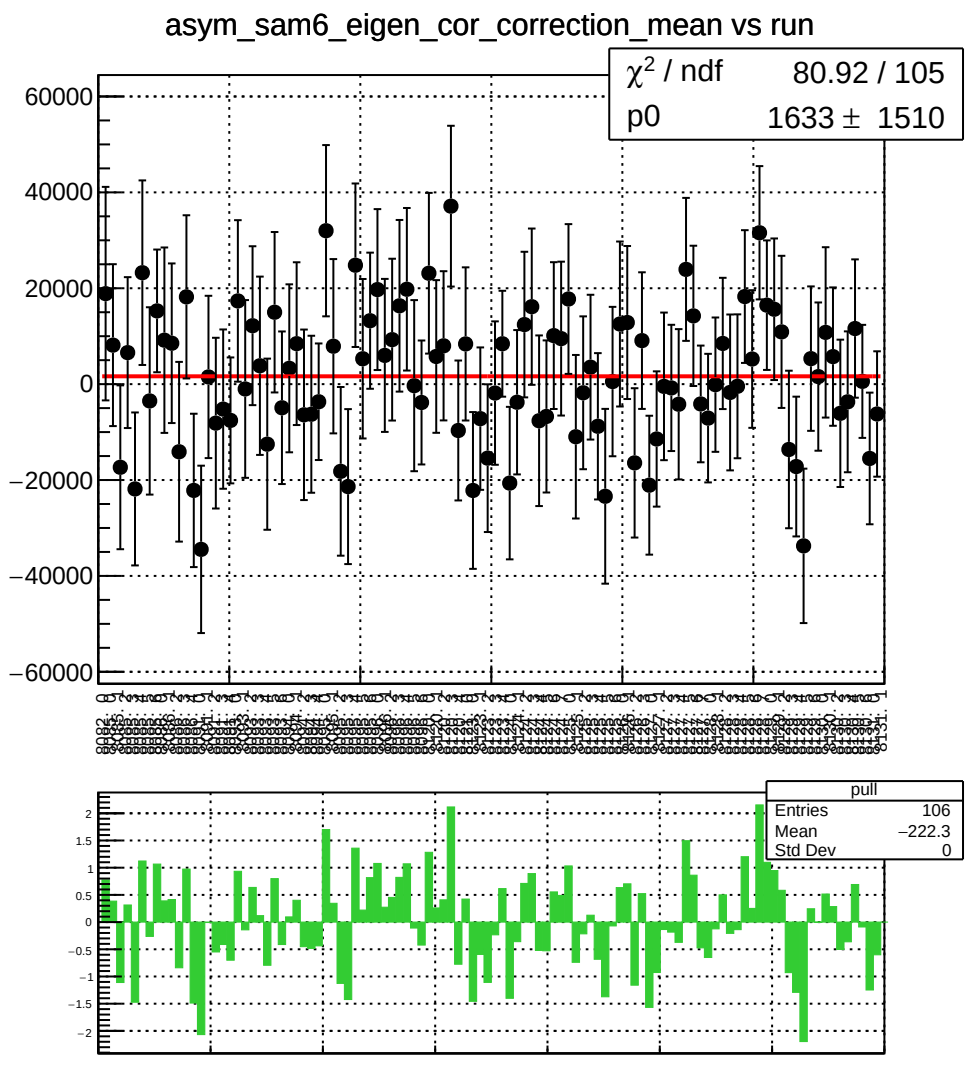

asym_sam6_cor_correction_mean vs run
χ² / ndf 80.92 / 105
p0 1633 ± 1510
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean −222.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

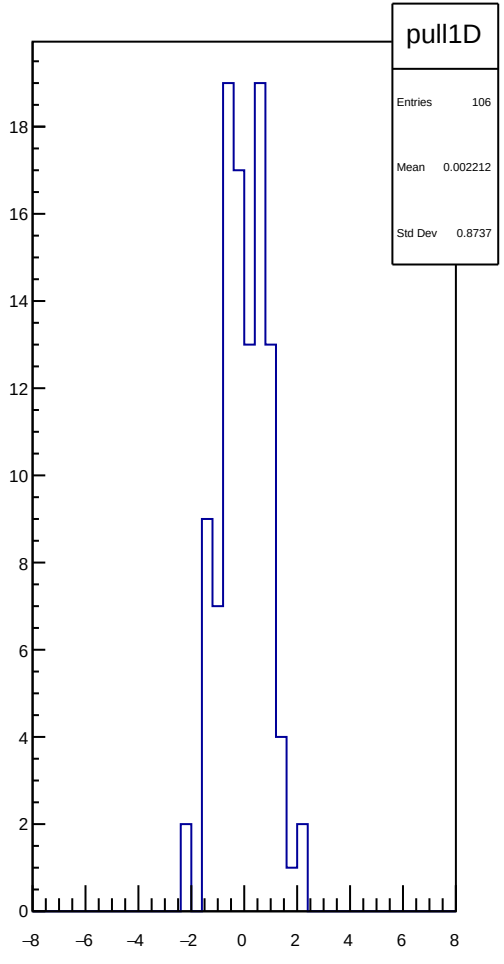

pull1D
Entries 106
Mean 0.002212
Std Dev 0.8737
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

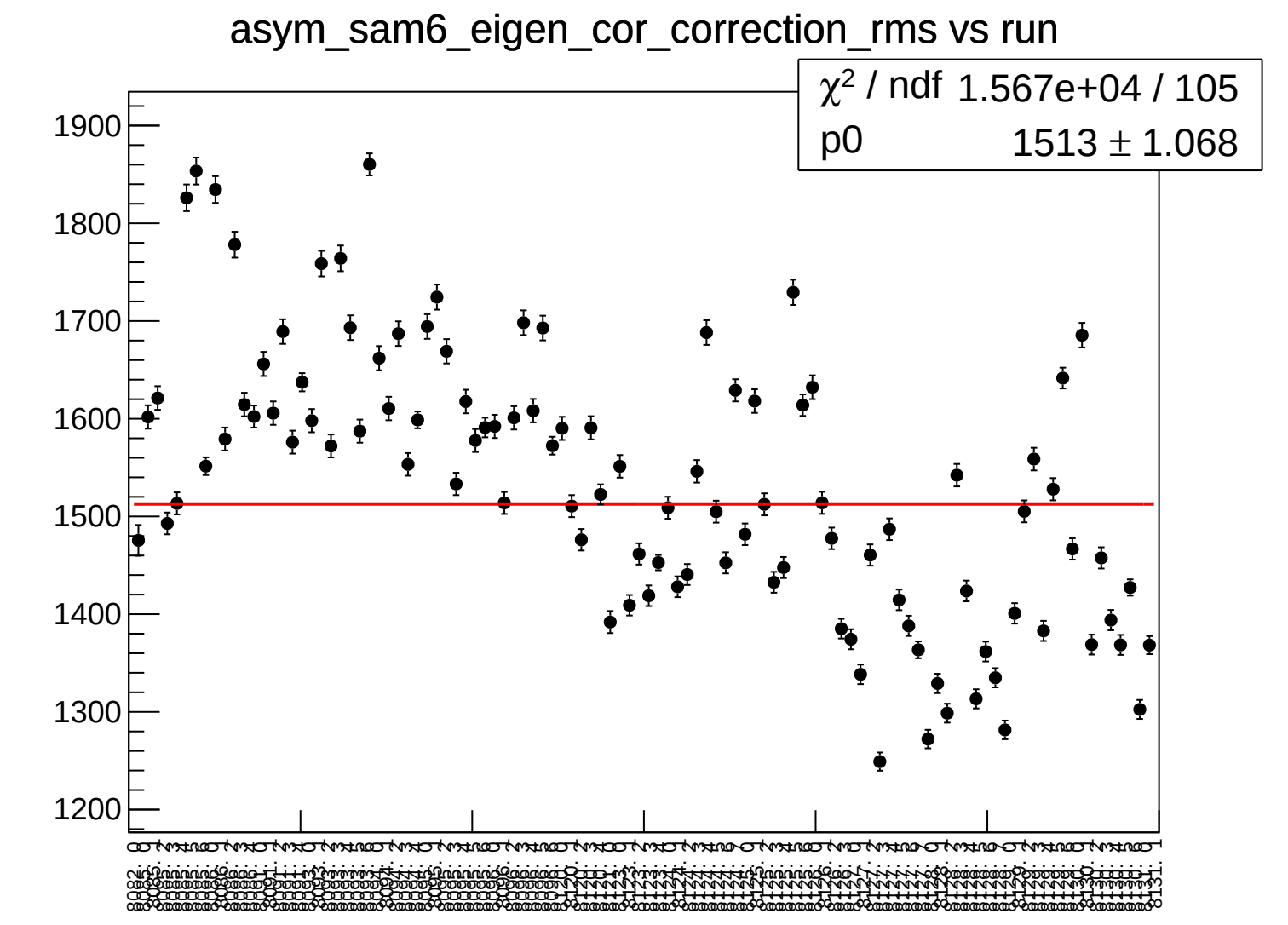

asym_sam6_cor_correction_rms vs run
χ² / ndf 1.567e+04 / 105
p0 1513 ± 1.068
1900
1800
1700
1600
1500
1400
1300
1200

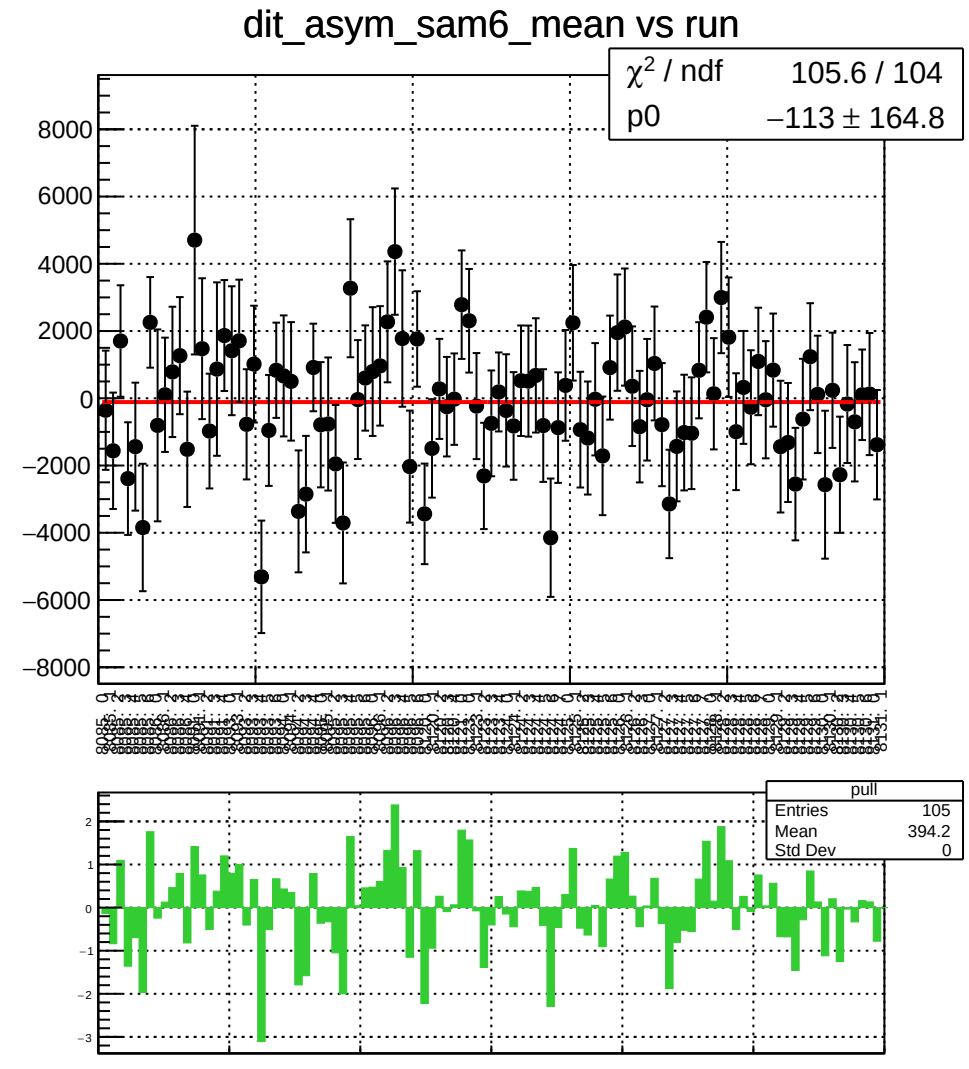

eigen_cor_asym_sam6_mean vs run
χ² / ndf 97.1 / 105
p0 −164.1± 144.6
pull
Entries 106
Mean 200.9
Std Dev 0
pull1D
Entries 106
Mean −0.003604
Std Dev 0.9571

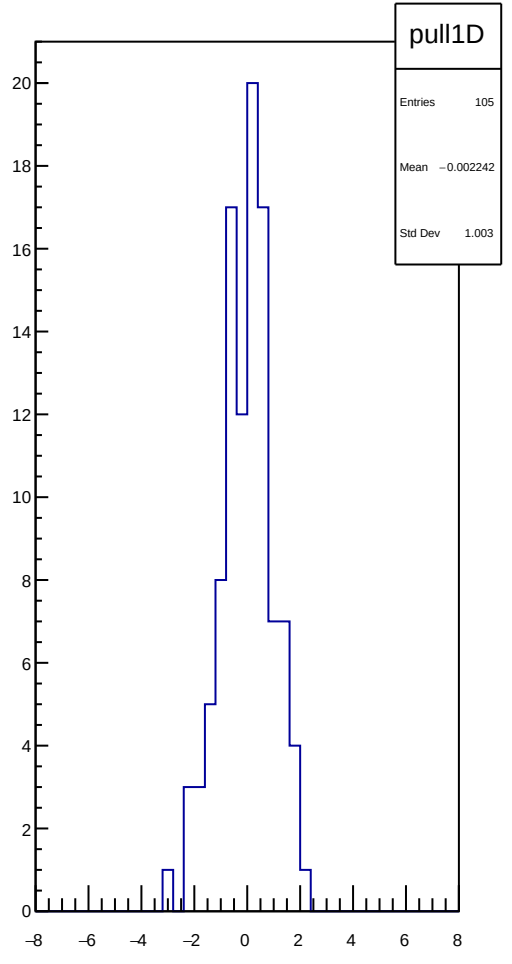

eigen_cor_asym_sam6_rms vs run
χ² / ndf 2.046e+04 / 105
p0 144.7 ± 0.1022
320
300
280
260
240
220
200
180
160
140
120

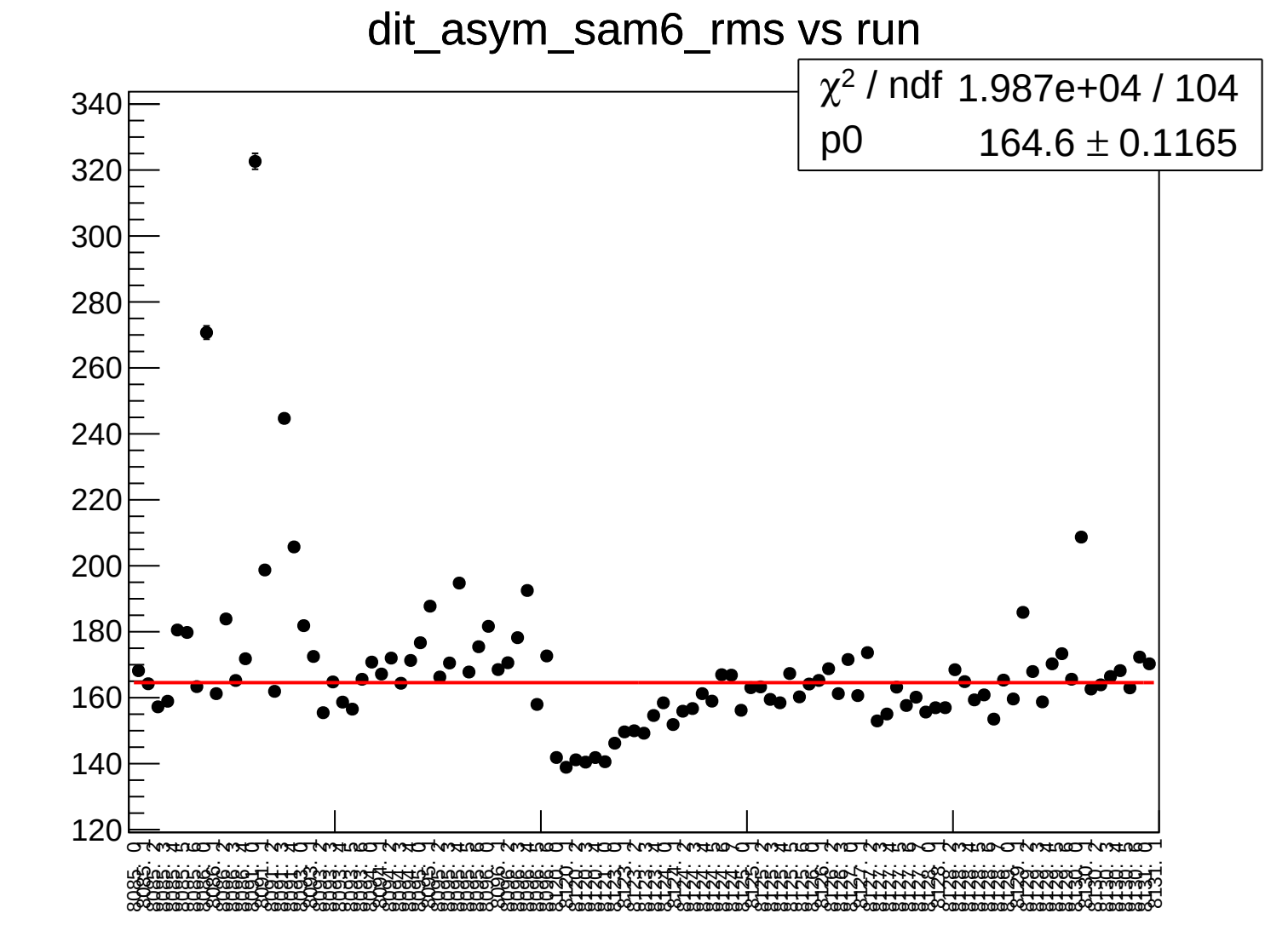

asym_sam6_eigen_cor_correction_mean vs run
χ² / ndf 80.92 / 105
p0 1633 ± 1510
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean −222.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

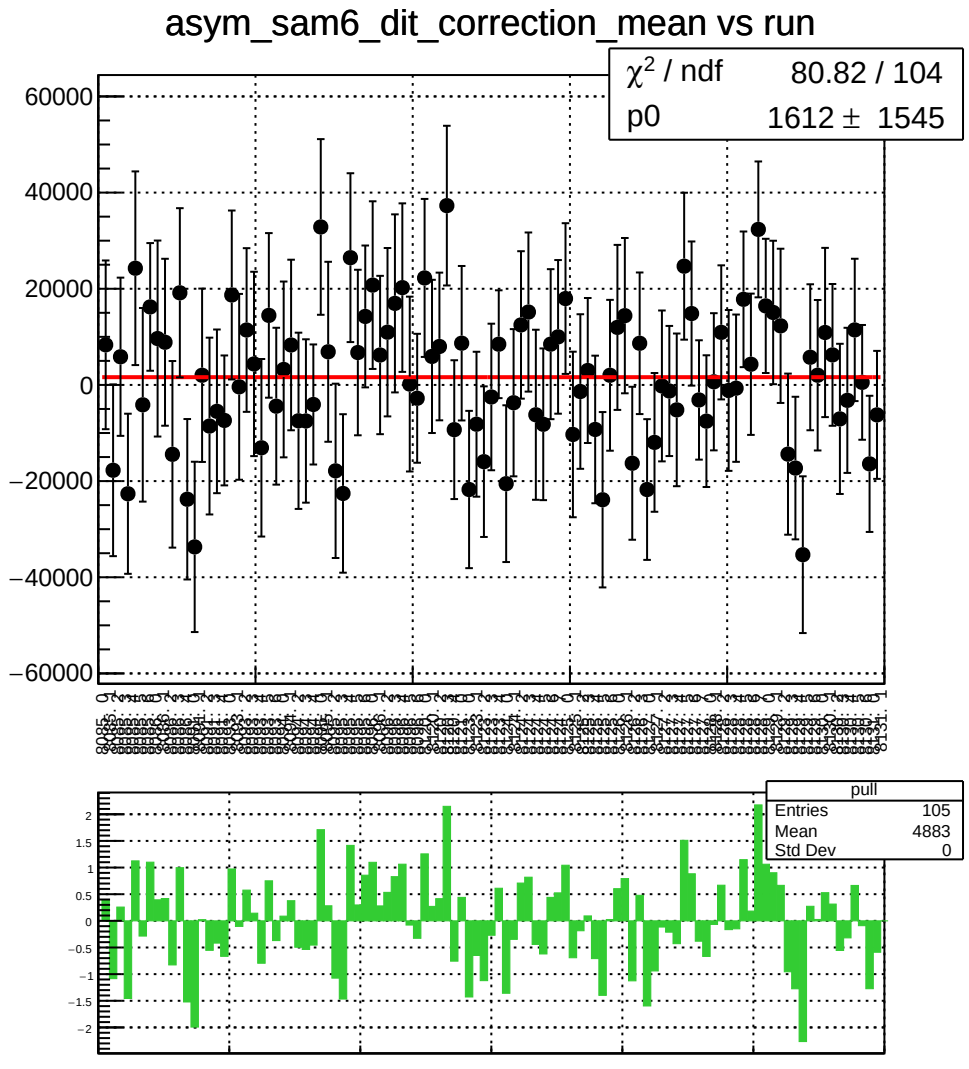

pull1D
Entries 106
Mean 0.002212
Std Dev 0.8737
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

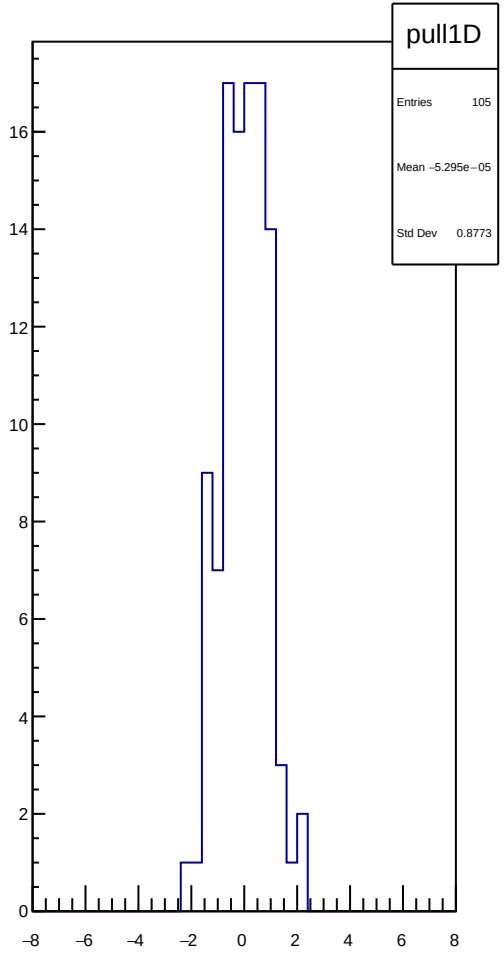

asym_sam6_eigen_cor_correction_rms vs run
$\chi^2$ / ndf 1.567e+04 / 105
p0 1513 ± 1.068
1900
1800
1700
1600
1500
1400
1300
1200

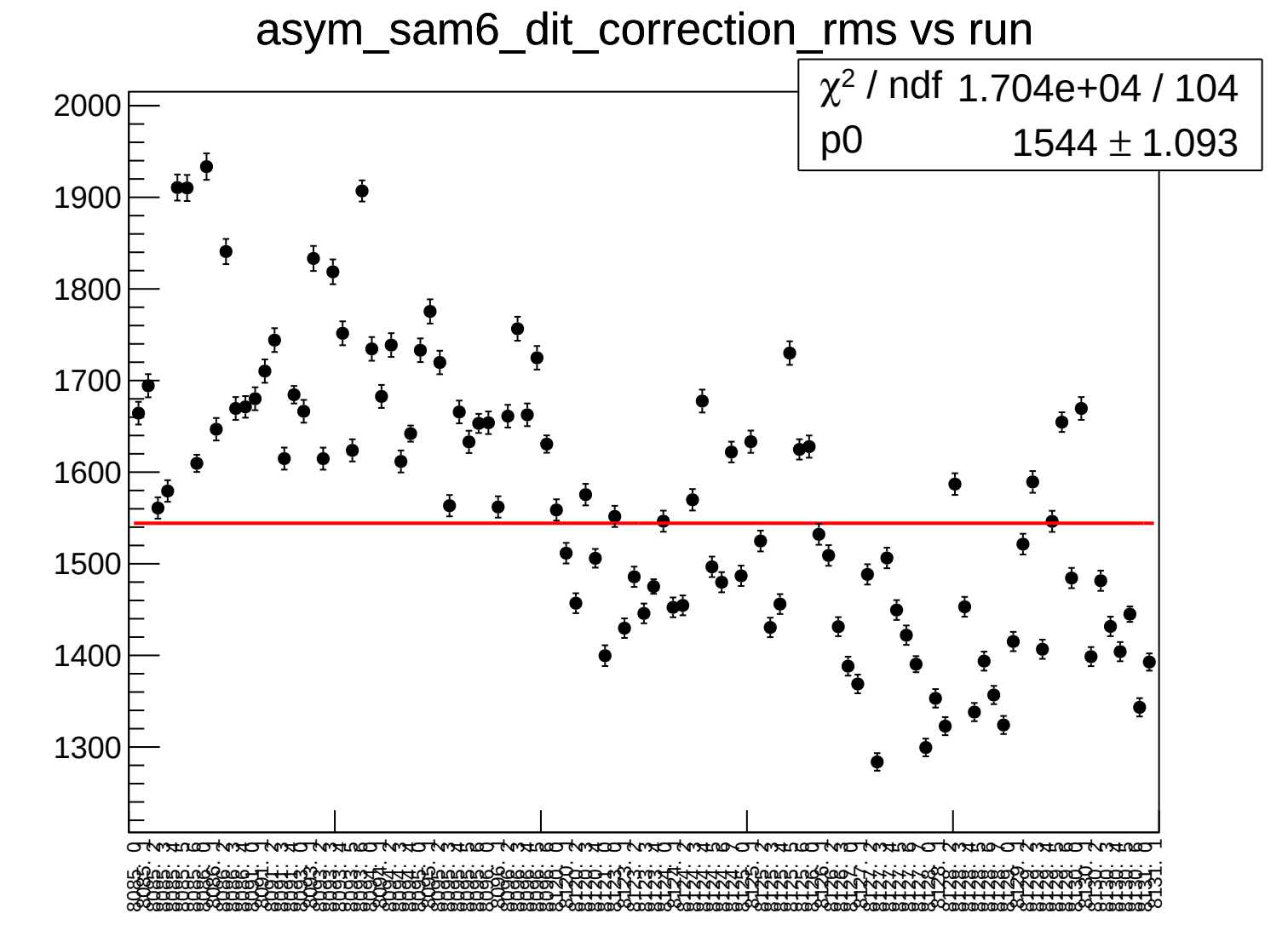

dit_asym_sam6_mean vs run
χ² / ndf 105.6 / 104
p0 −113 ± 164.8
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 105
Mean 394.2
Std Dev 0
2
1
0
−1
−2
−3

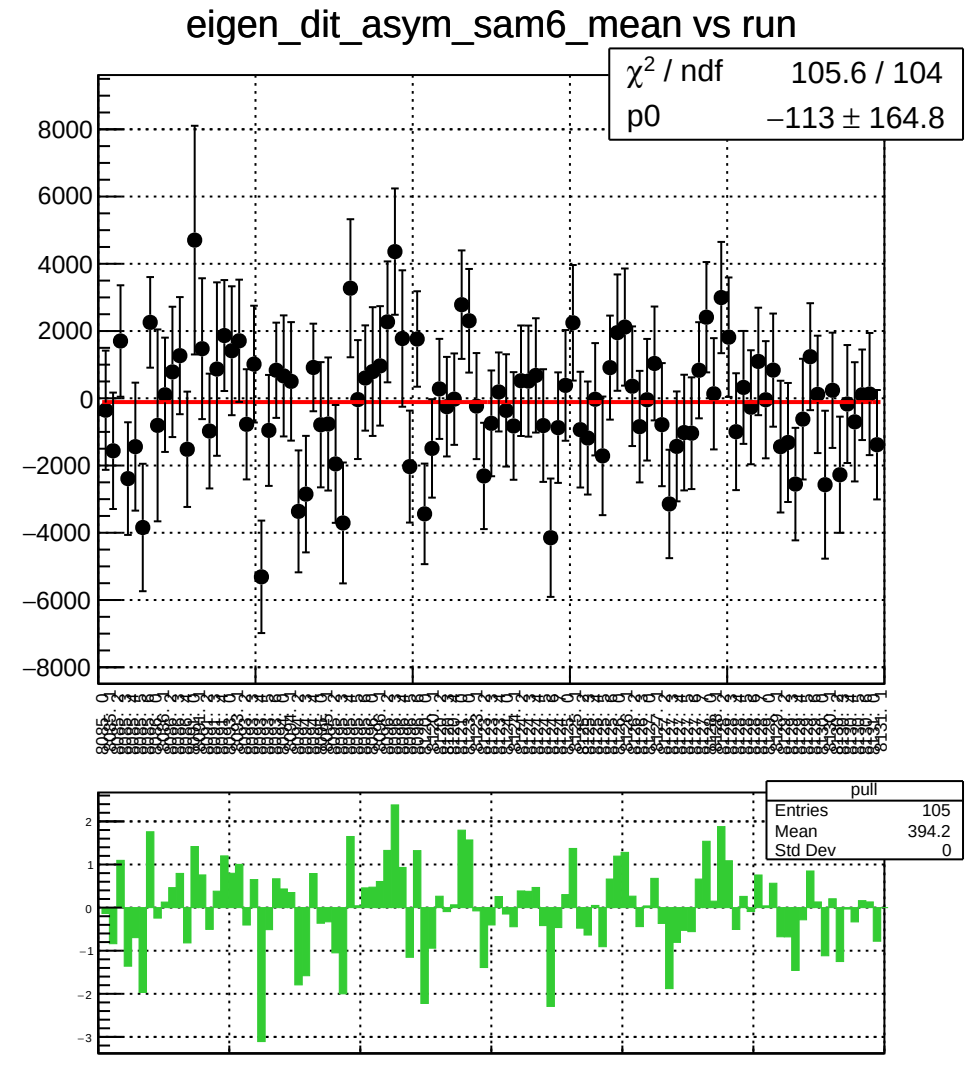

pull1D
Entries 105
Mean −0.002242
Std Dev 1.003
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

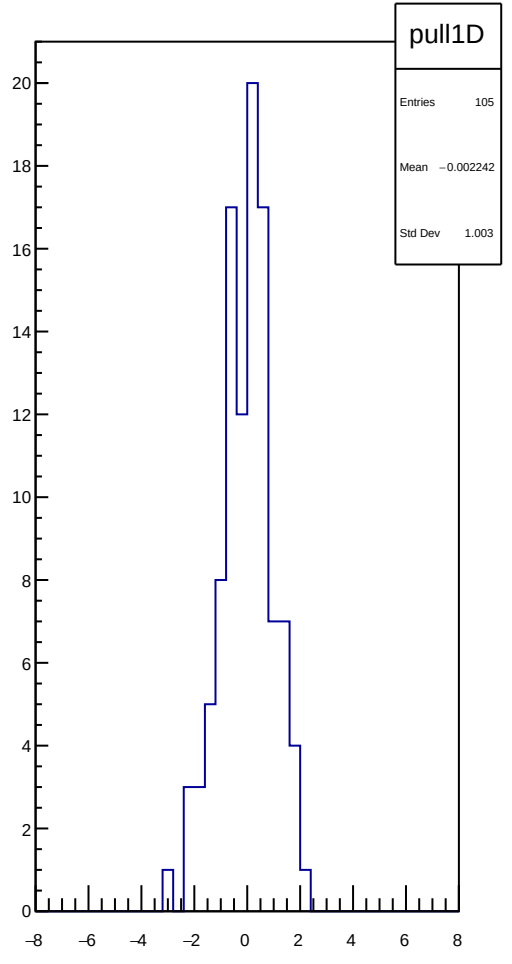

dit_asym_sam6_rms vs run
χ² / ndf 1.987e+04 / 104
p0 164.6 ± 0.1165
340
320
300
280
260
240
220
200
180
160
140
120

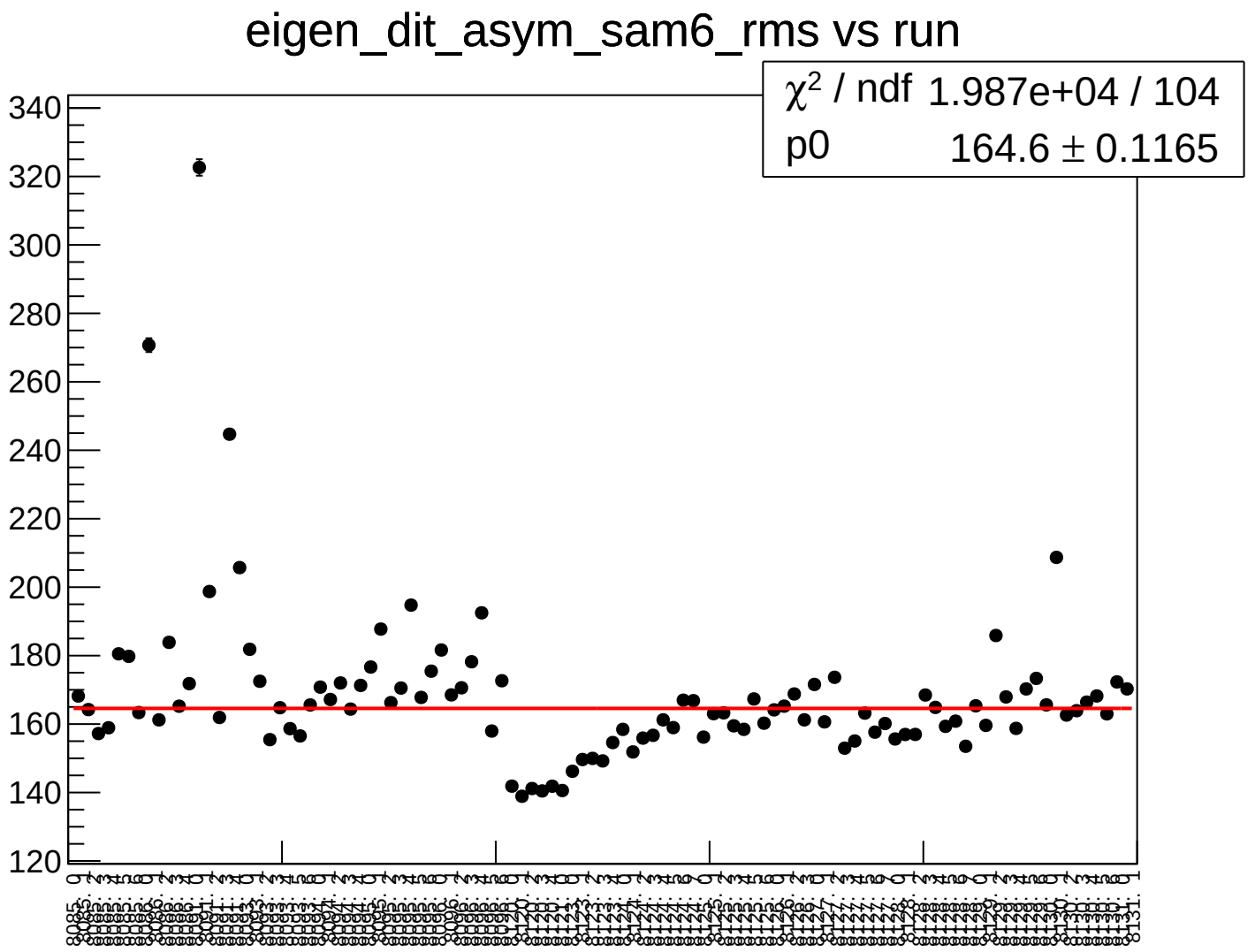

asym_sam6_dit_correction_mean vs run
χ² / ndf 80.82 / 104
p0 1612 ± 1545
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean 4883
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

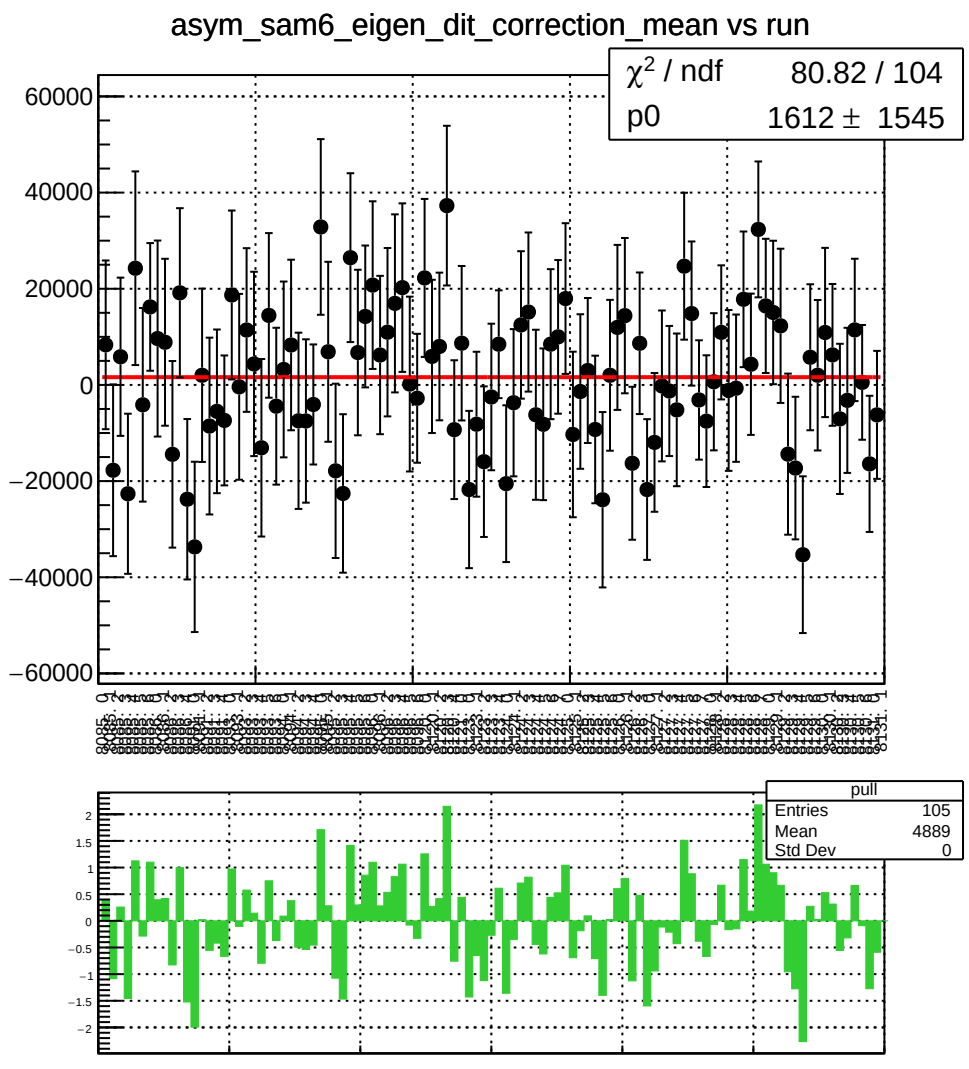

pull1D
Entries 105
Mean −5.295e−05
Std Dev 0.8773
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

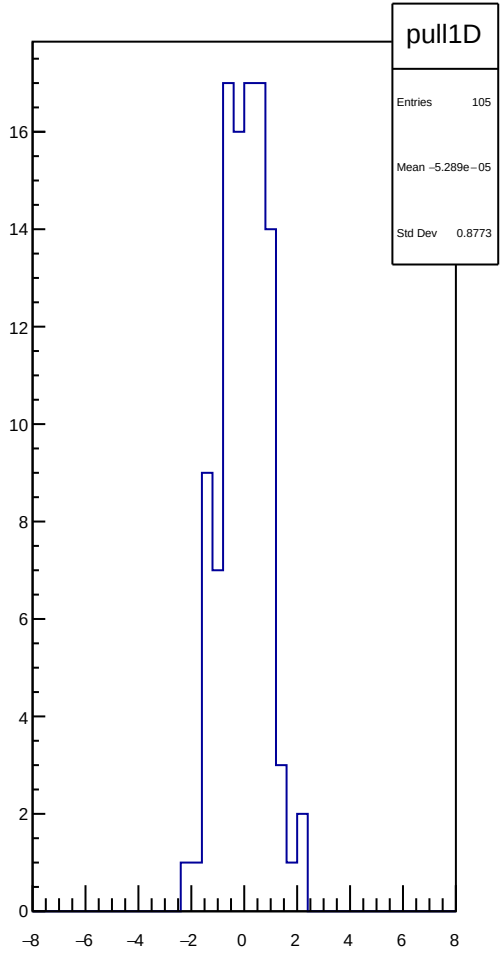

asym_sam6_dit_correction_rms vs run
χ² / ndf 1.704e+04 / 104
p0 1544 ± 1.093
2000
1900
1800
1700
1600
1500
1400
1300

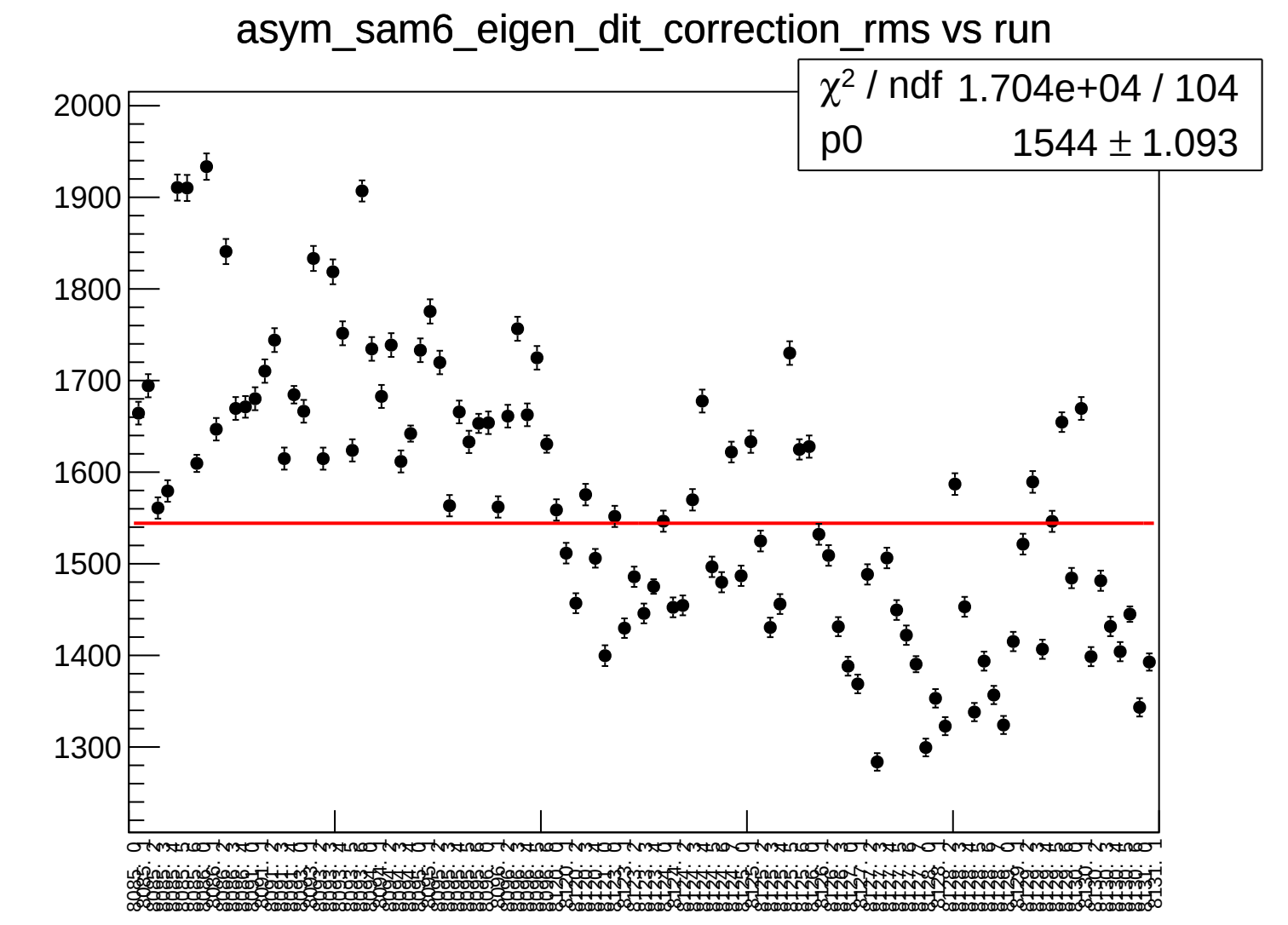

eigen_dit_asym_sam6_mean vs run
χ² / ndf 105.6 / 104
p0 −113 ± 164.8
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 105
Mean 394.2
Std Dev 0
2
1
0
−1
−2
−3

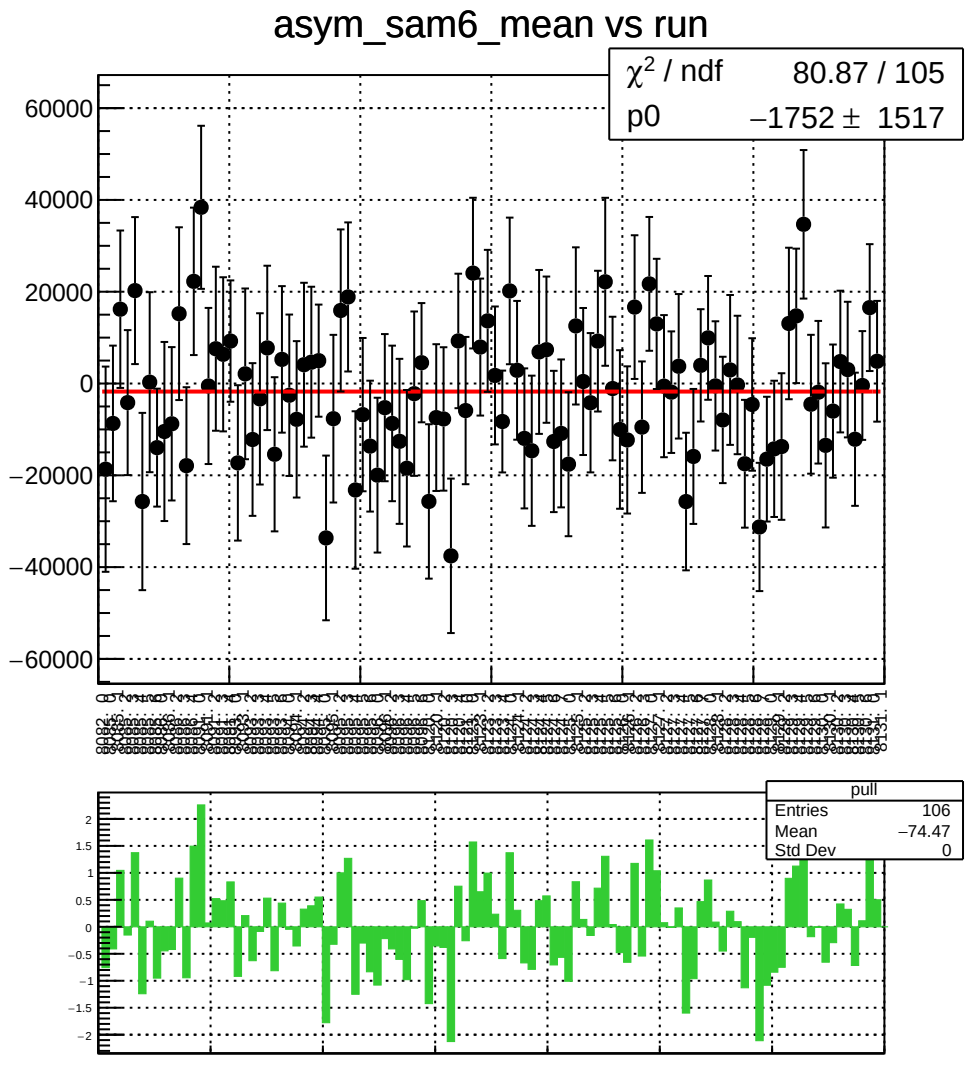

pull1D
Entries 105
Mean −0.002242
Std Dev 1.003
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

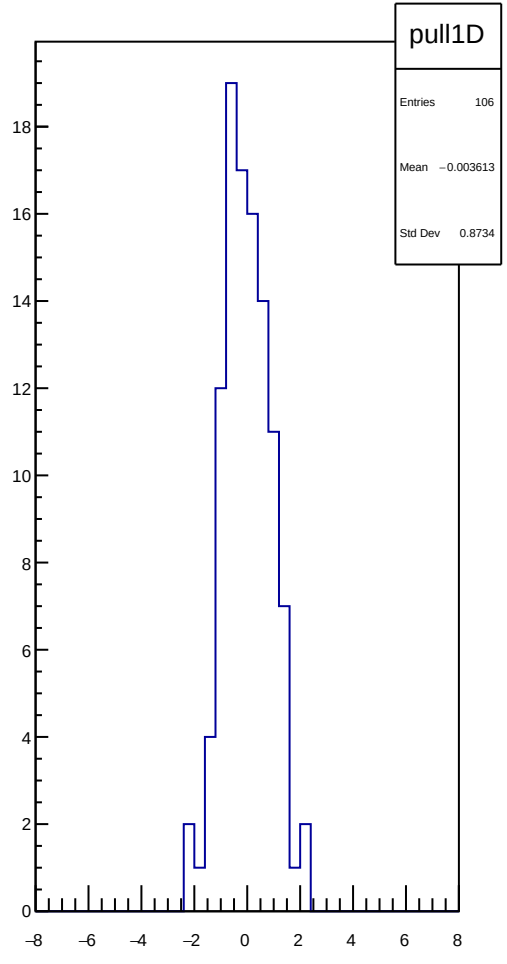

eigen_dit_asym_sam6_rms vs run
χ² / ndf 1.987e+04 / 104
p0 164.6 ± 0.1165
340
320
300
280
260
240
220
200
180
160
140
120

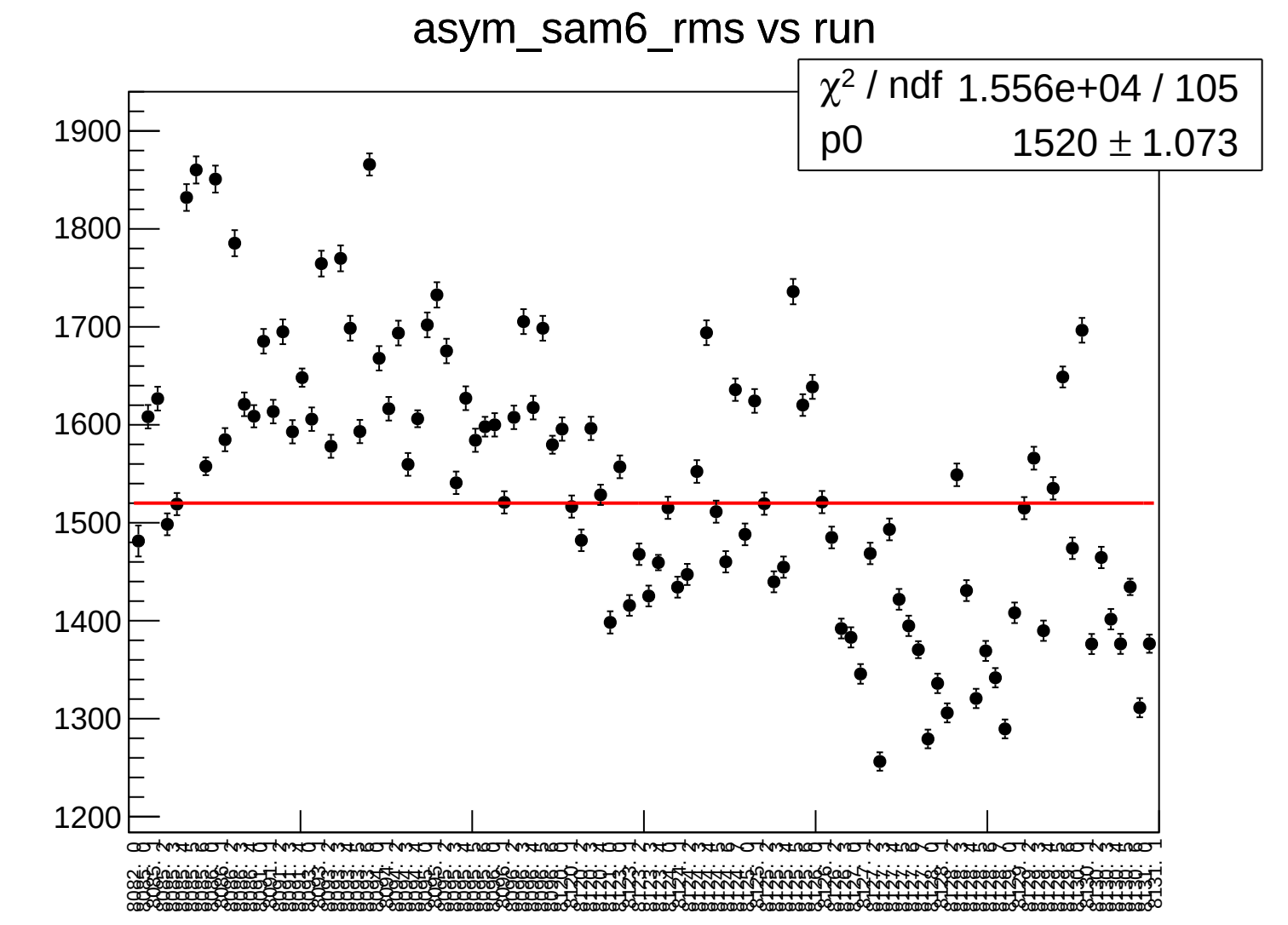

asym_sam6_eigen_dit_correction_mean vs run
χ² / ndf 80.82 / 104
p0 1612 ± 1545
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean 4889
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

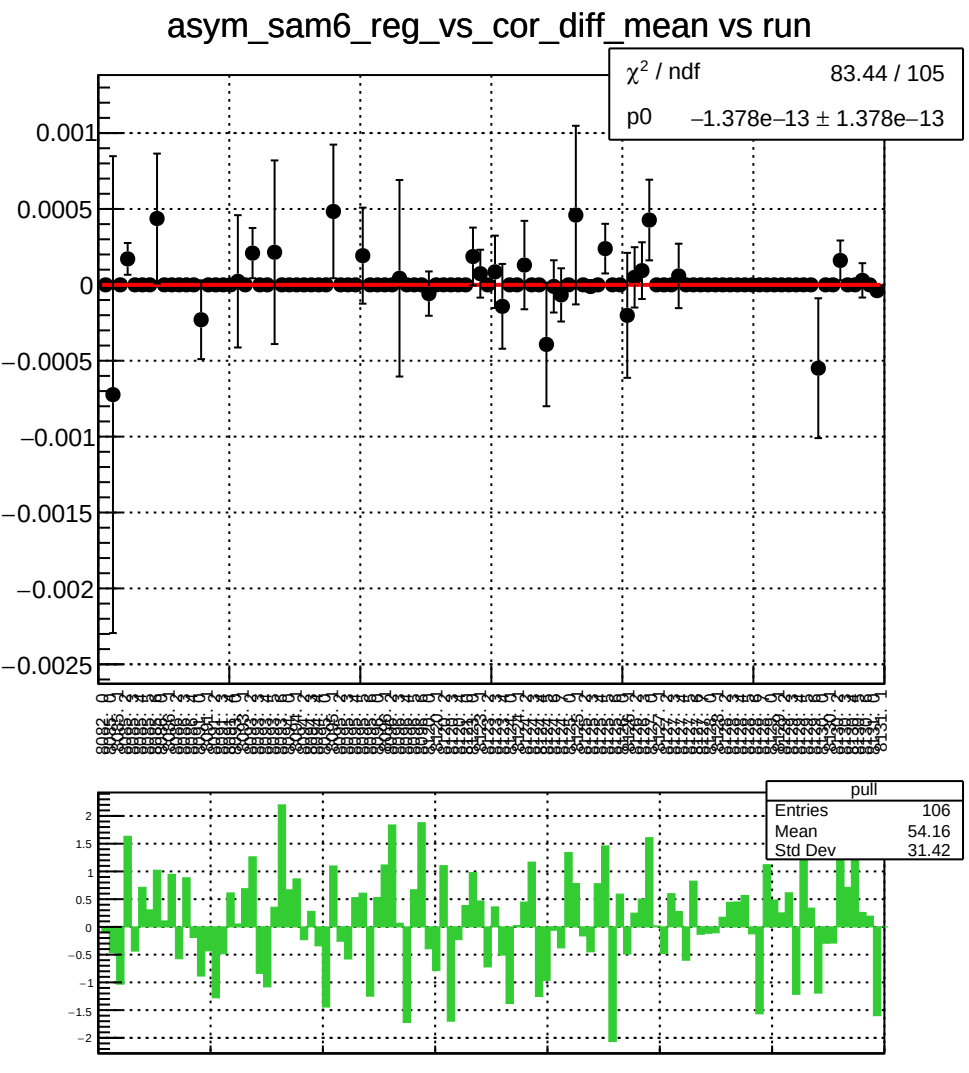

pull1D
Entries 105
Mean −5.289e−05
Std Dev 0.8773
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

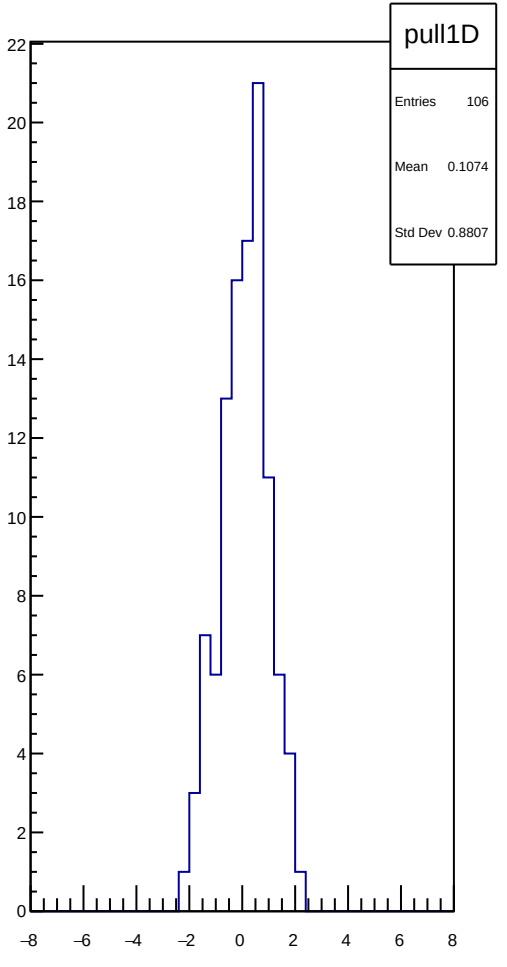

asym_sam6_eigen_dit_correction_rms vs run
χ² / ndf 1.704e+04 / 104
p0 1544 ± 1.093
2000
1900
1800
1700
1600
1500
1400
1300

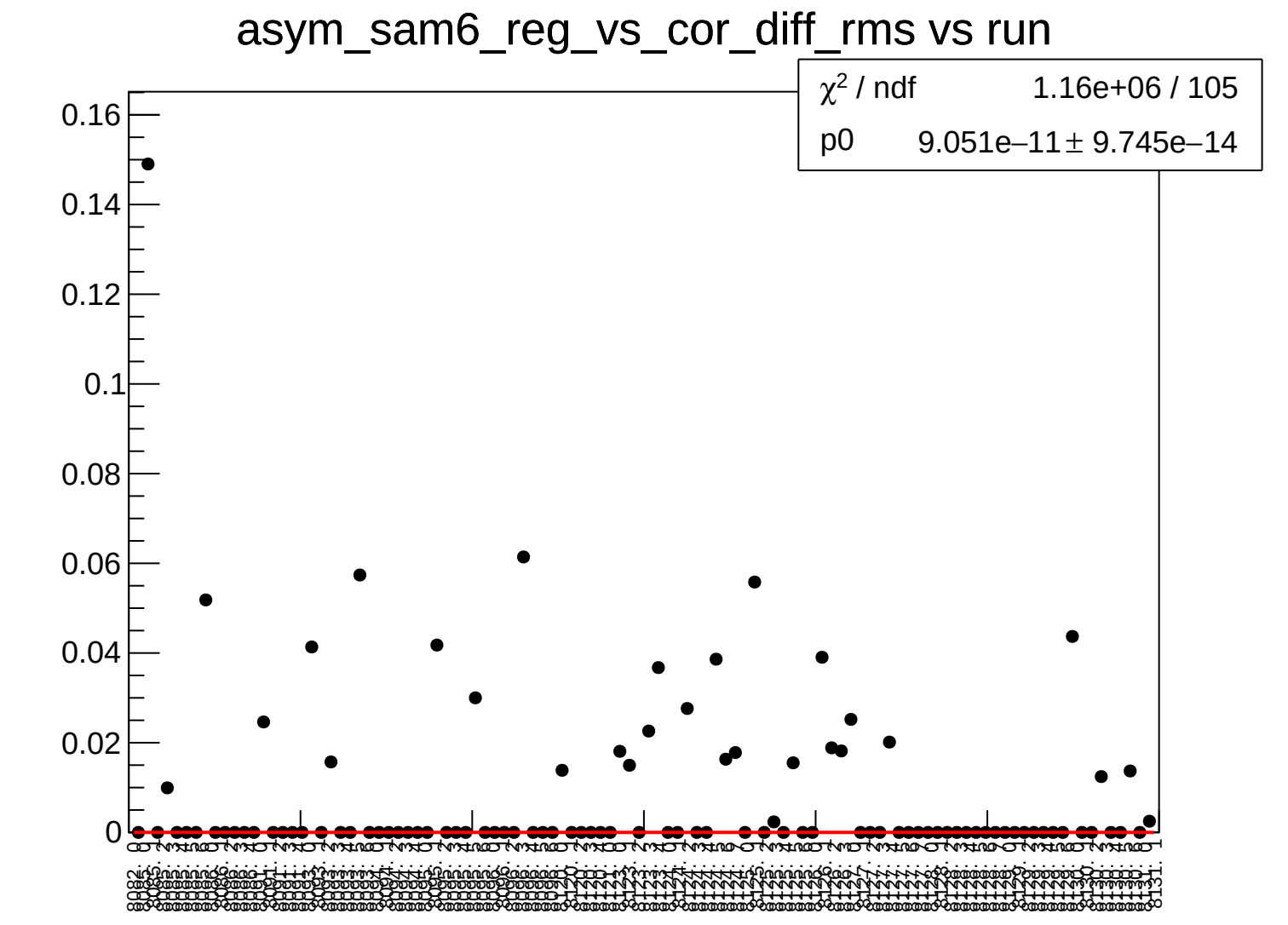

asym_sam6_mean vs run
χ² / ndf 80.87 / 105
p0 −1752 ± 1517
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean −74.47
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

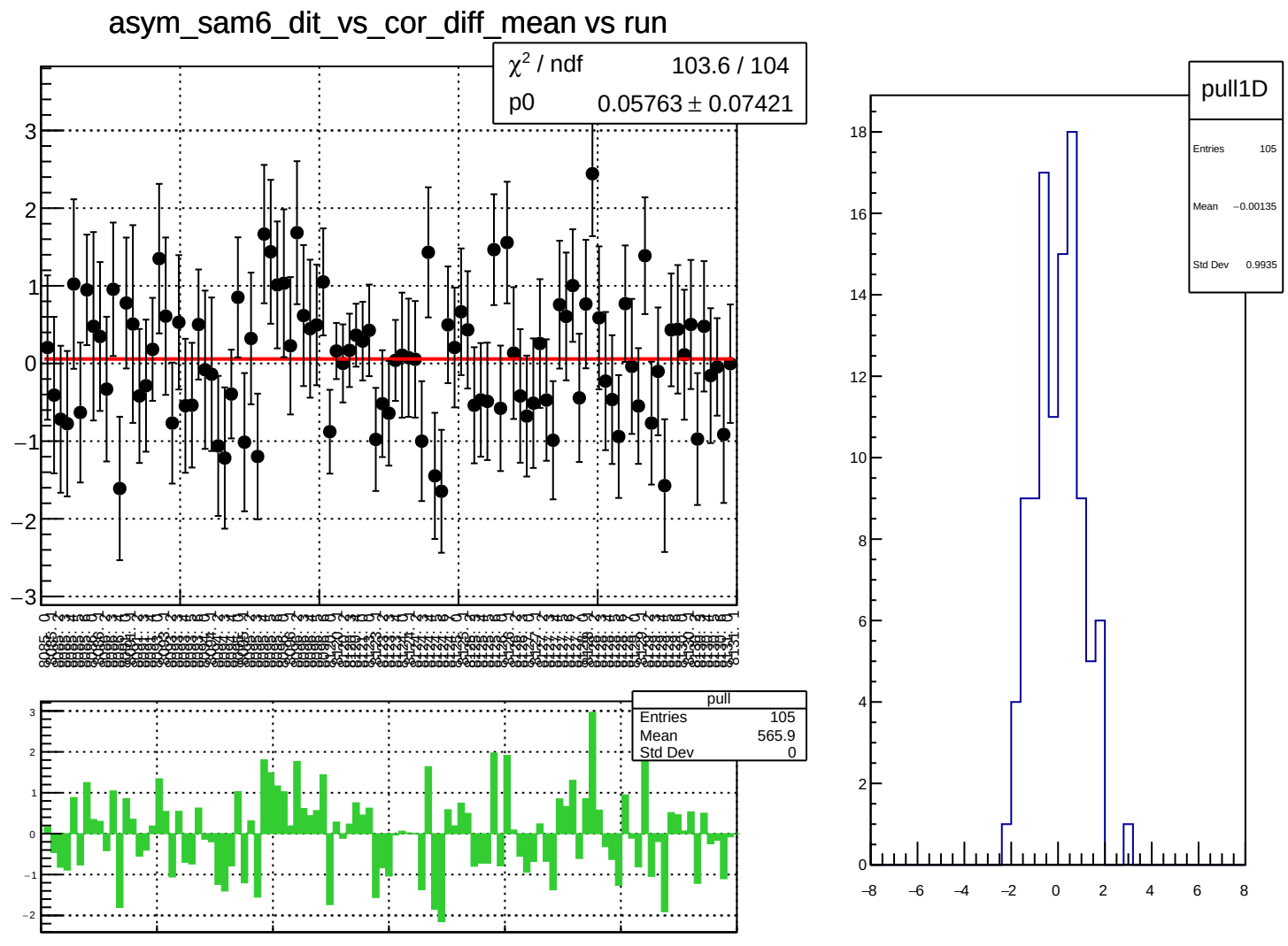

pull1D
Entries 106
Mean −0.003613
Std Dev 0.8734
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

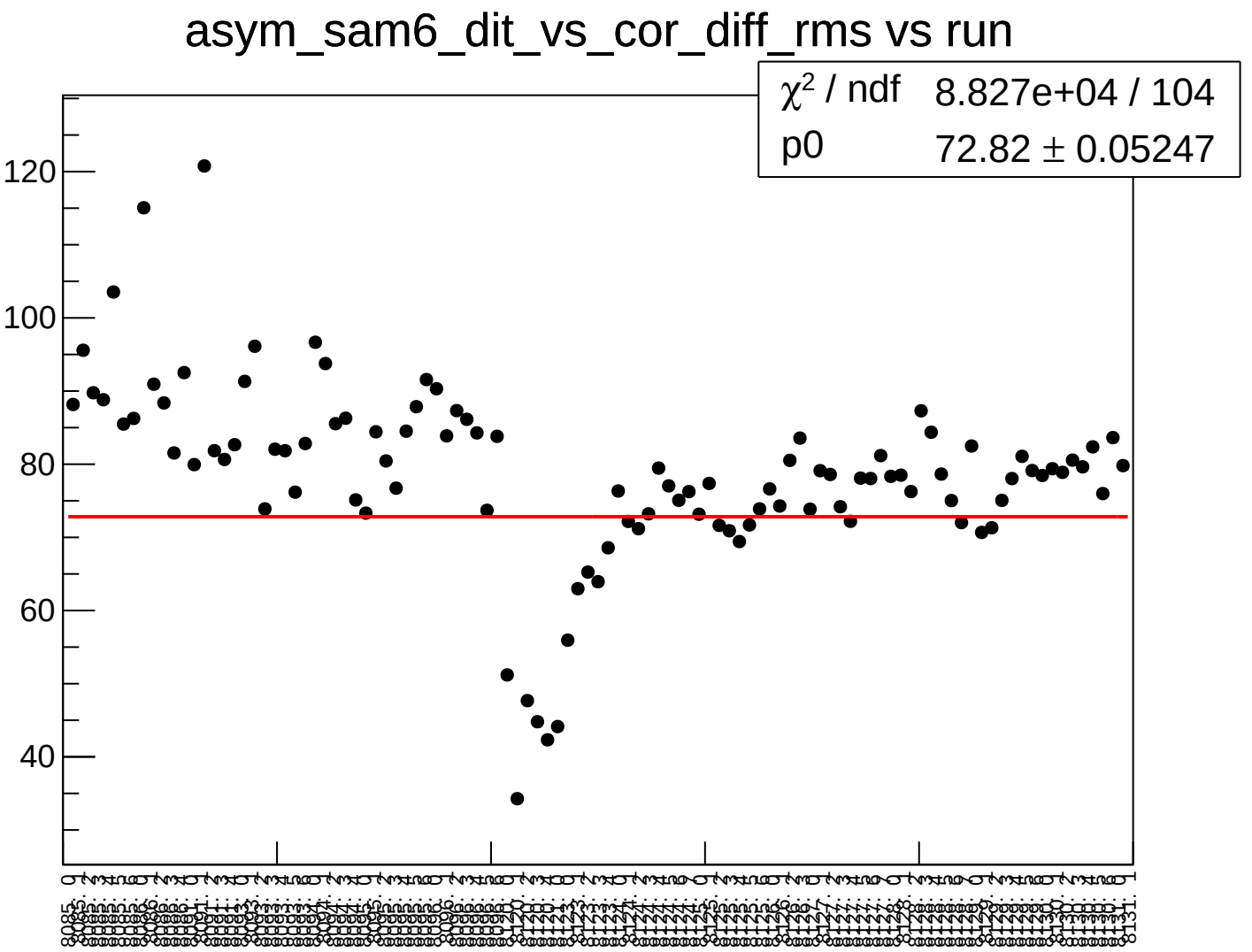

asym_sam6_rms vs run
χ² / ndf 1.556e+04 / 105
p0 1520 ± 1.073
1900
1800
1700
1600
1500
1400
1300
1200

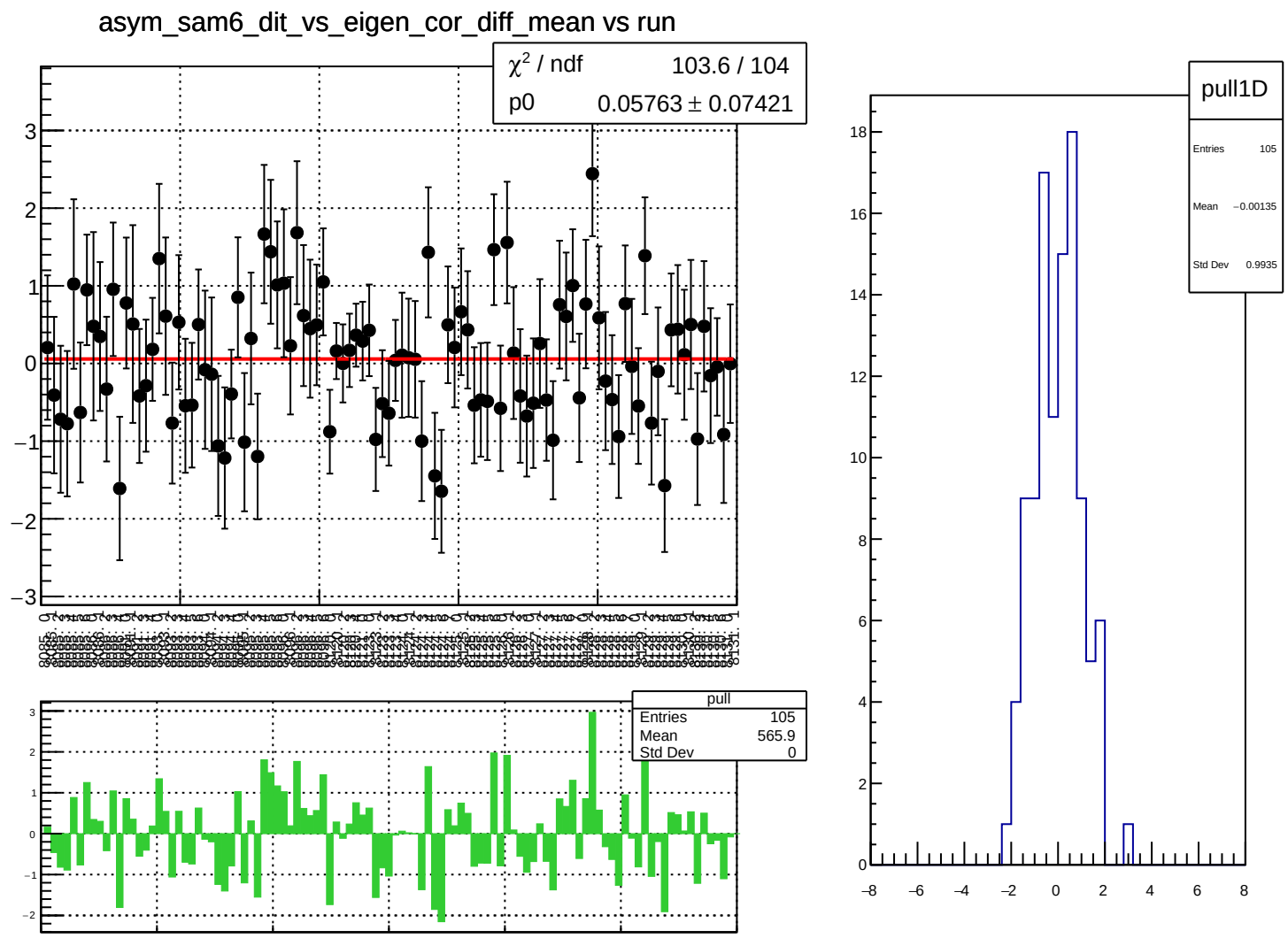

asym_sam6_reg_vs_cor_diff_mean vs run
χ² / ndf 83.44 / 105
p0 −1.378e−13 ± 1.378e−13
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
−0.0025
pull
Entries 106
Mean 54.16
Std Dev 31.42
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

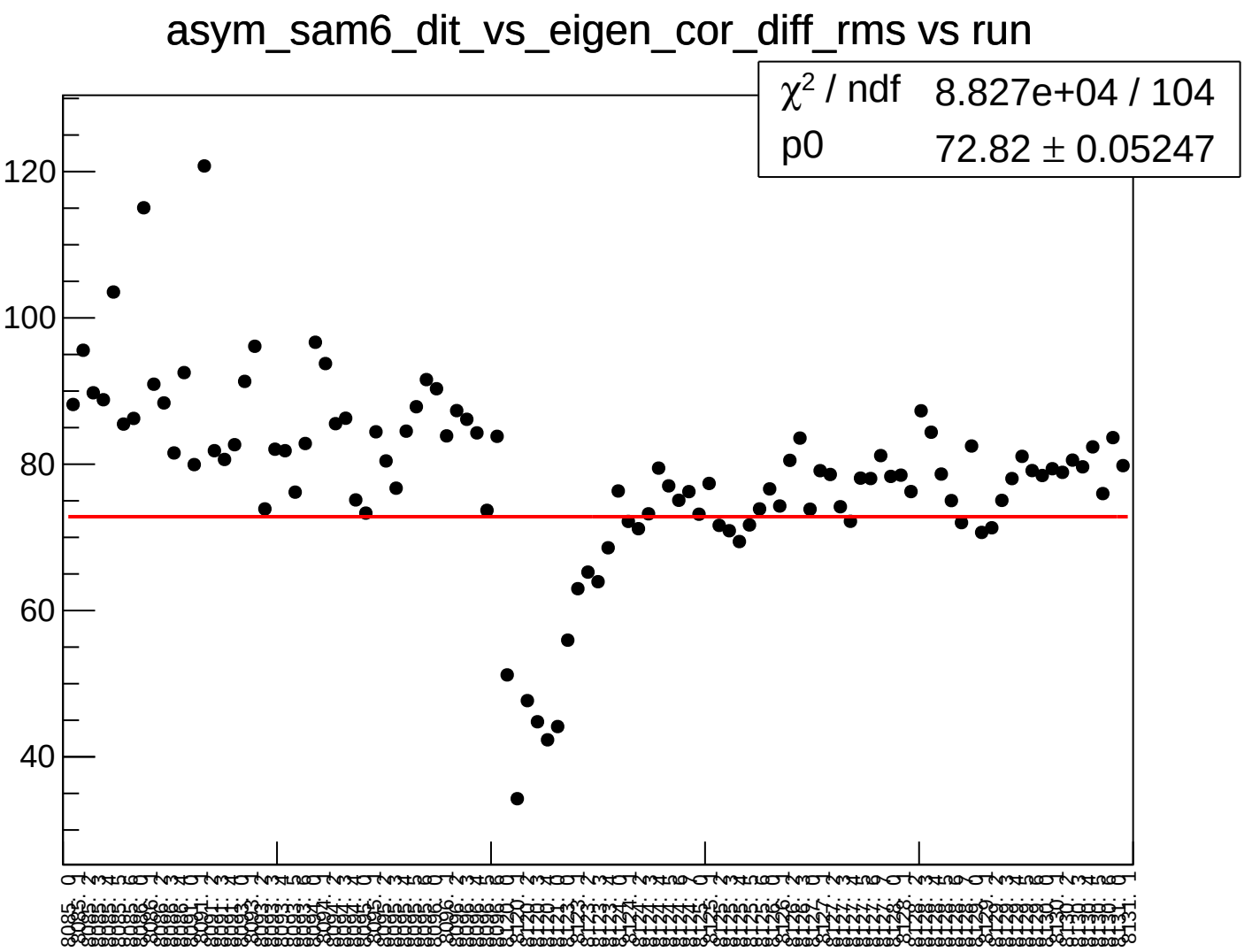

pull1D
Entries 106
Mean 0.1074
Std Dev 0.8807
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

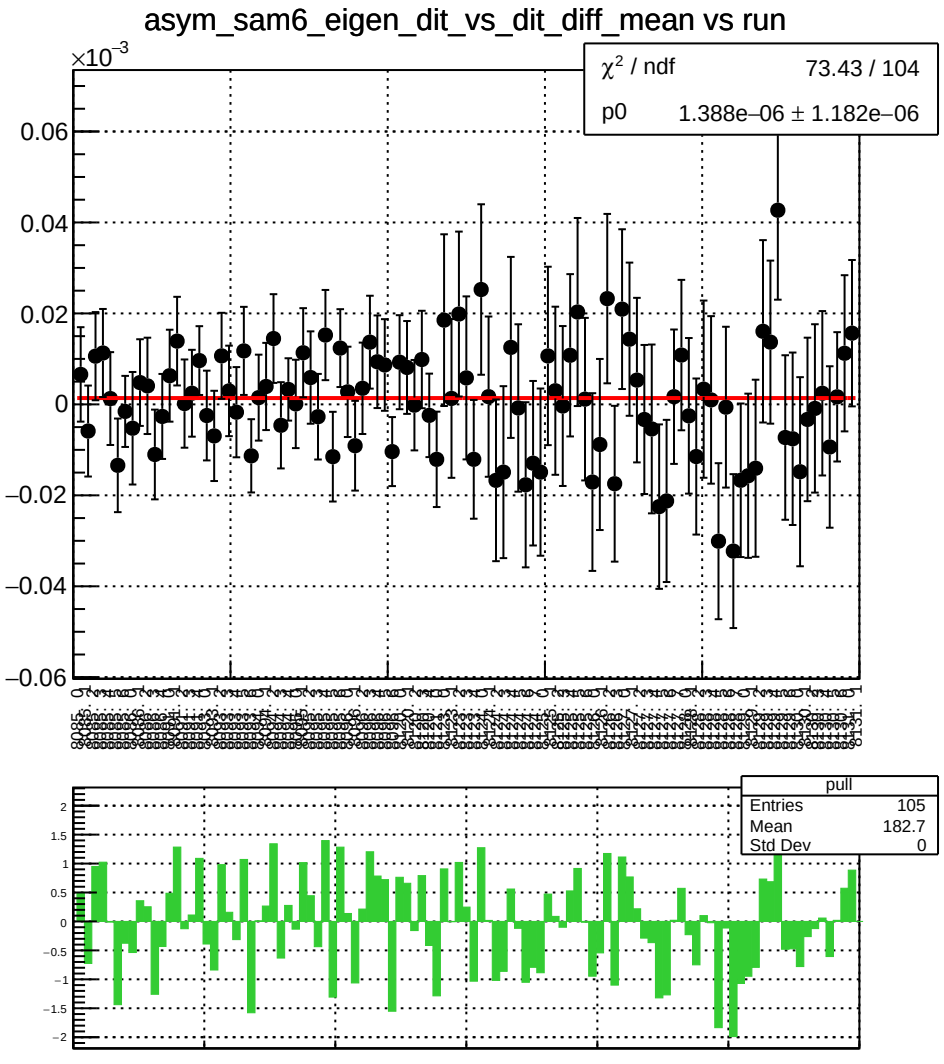

asym_sam6_reg_vs_cor_diff_rms vs run
χ² / ndf 1.16e+06 / 105
p0 9.051e−11 ± 9.745e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

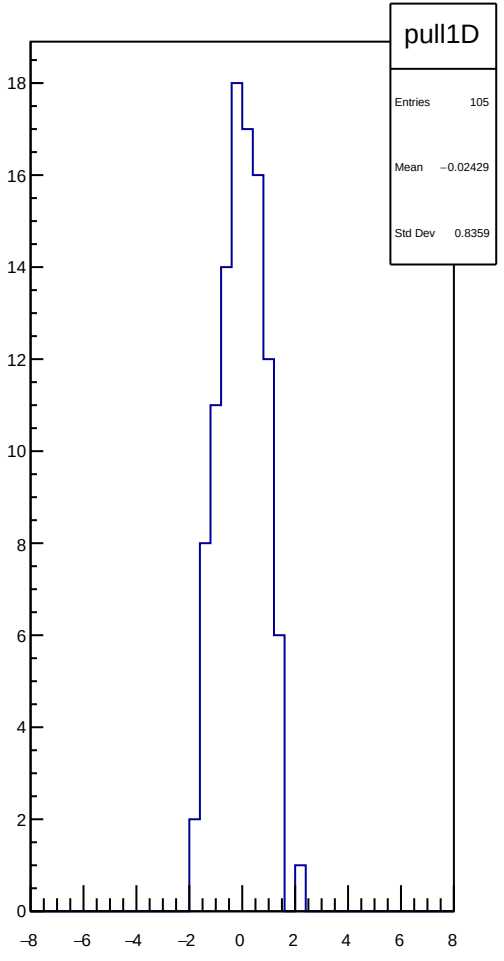

asym_sam6_dit_vs_cor_diff_mean vs run
χ² / ndf 103.6 / 104
p0 0.05763 ± 0.07421
pull
Entries 105
Mean 565.9
Std Dev 0
pull1D
Entries 105
Mean −0.00135
Std Dev 0.9935

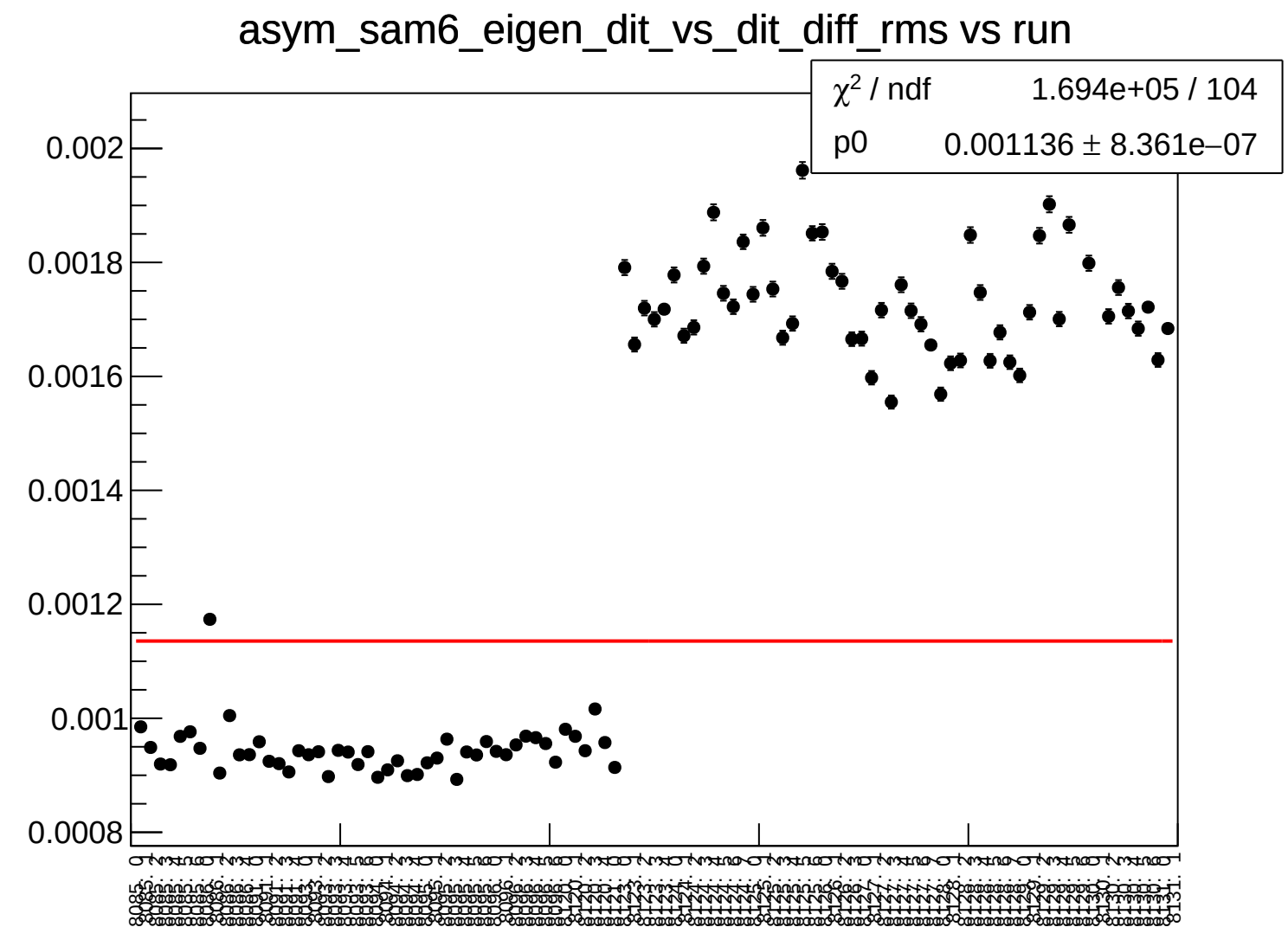

asym_sam6_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 8.827e+04 / 104
p0 72.82 ± 0.05247
120
100
80
60
40

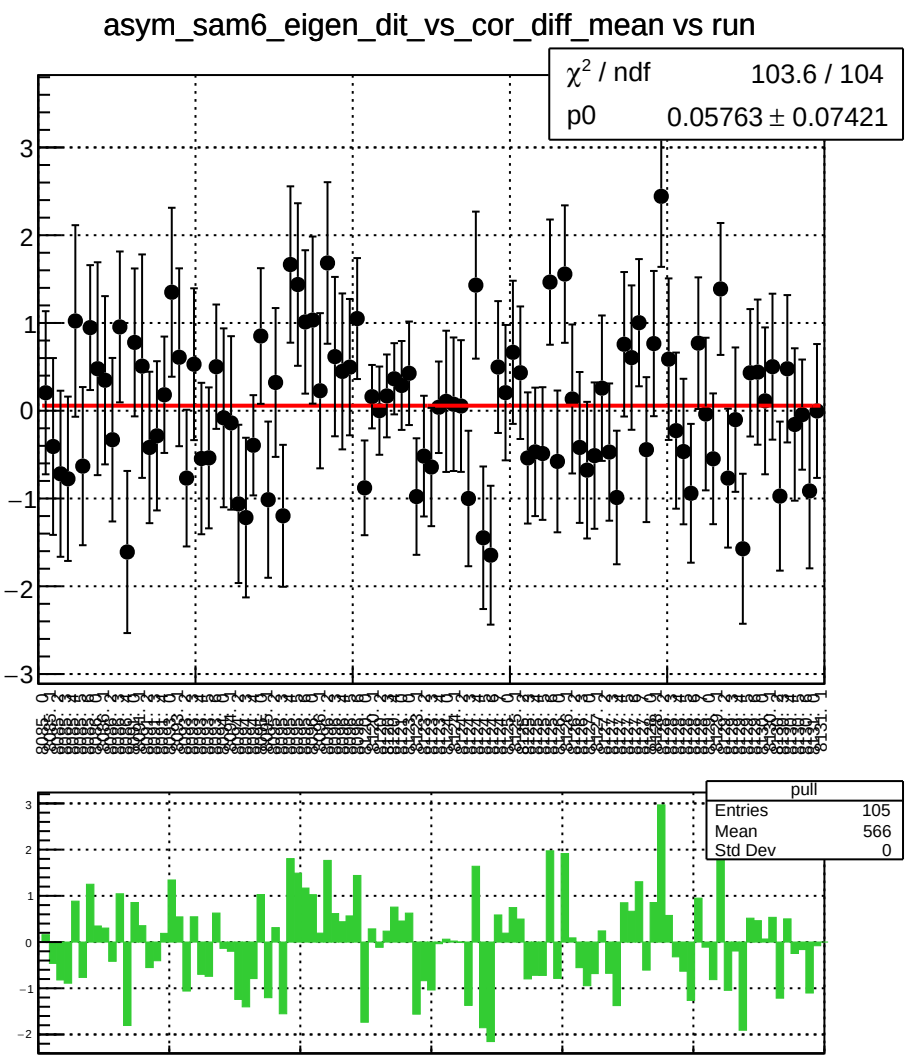

asym_sam6_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.6 / 104
p0 0.05763 ± 0.07421
pull
Entries 105
Mean 565.9
Std Dev 0
pull1D
Entries 105
Mean −0.00135
Std Dev 0.9935

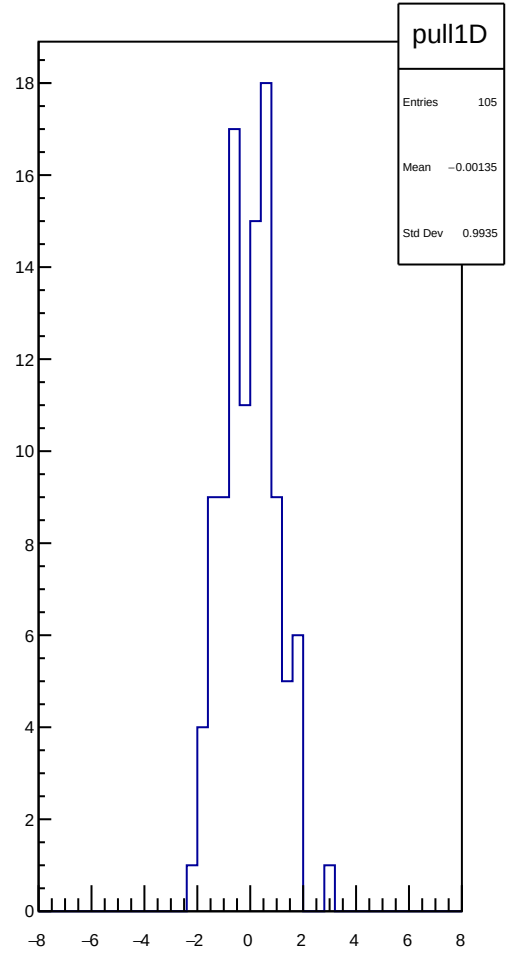

asym_sam6_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.827e+04 / 104
p0 72.82 ± 0.05247
120
100
80
60
40

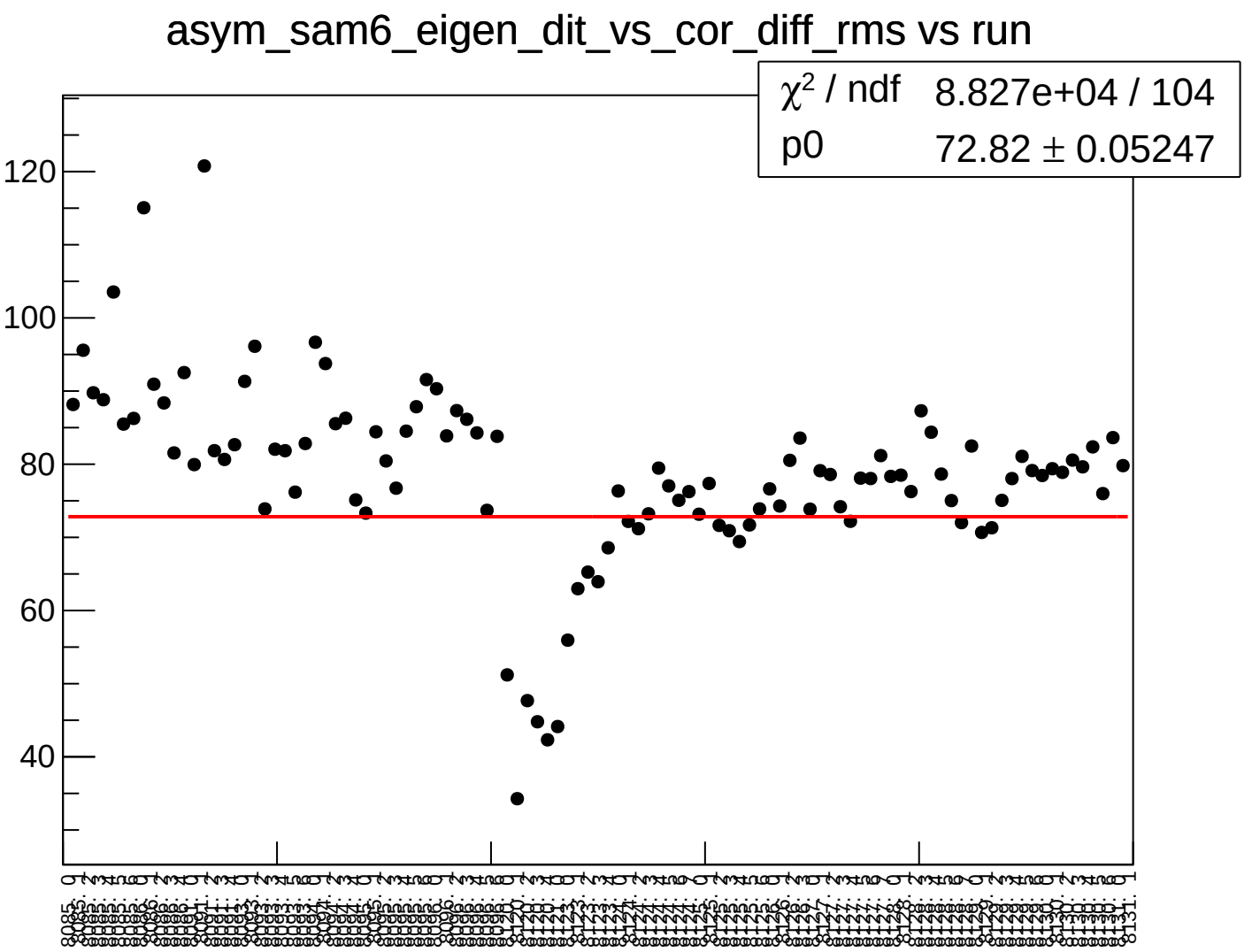

asym_sam6_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.43 / 104
p0 1.388e−06 ± 1.182e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 105
Mean 182.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

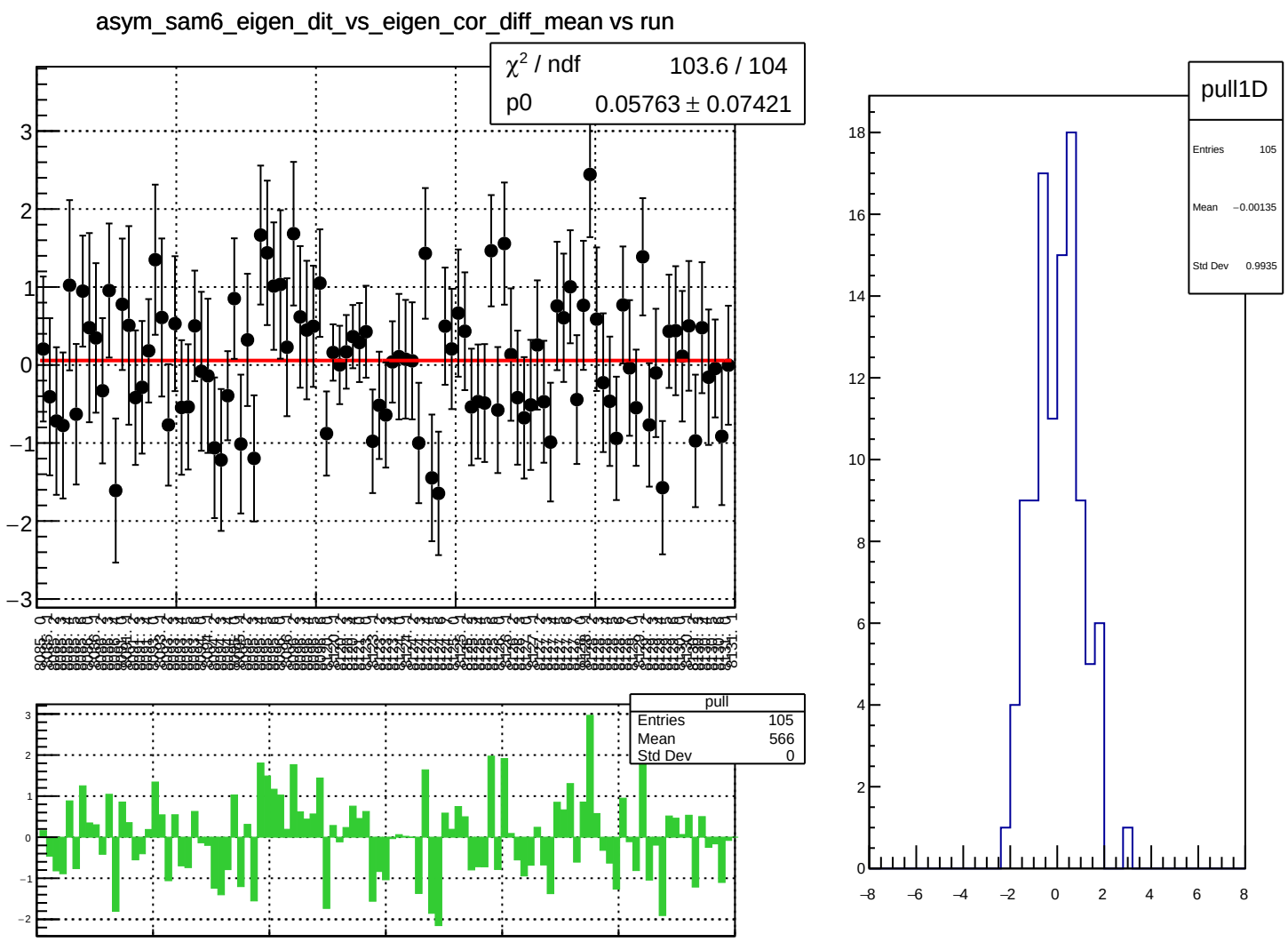

pull1D
Entries 105
Mean −0.02429
Std Dev 0.8359
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

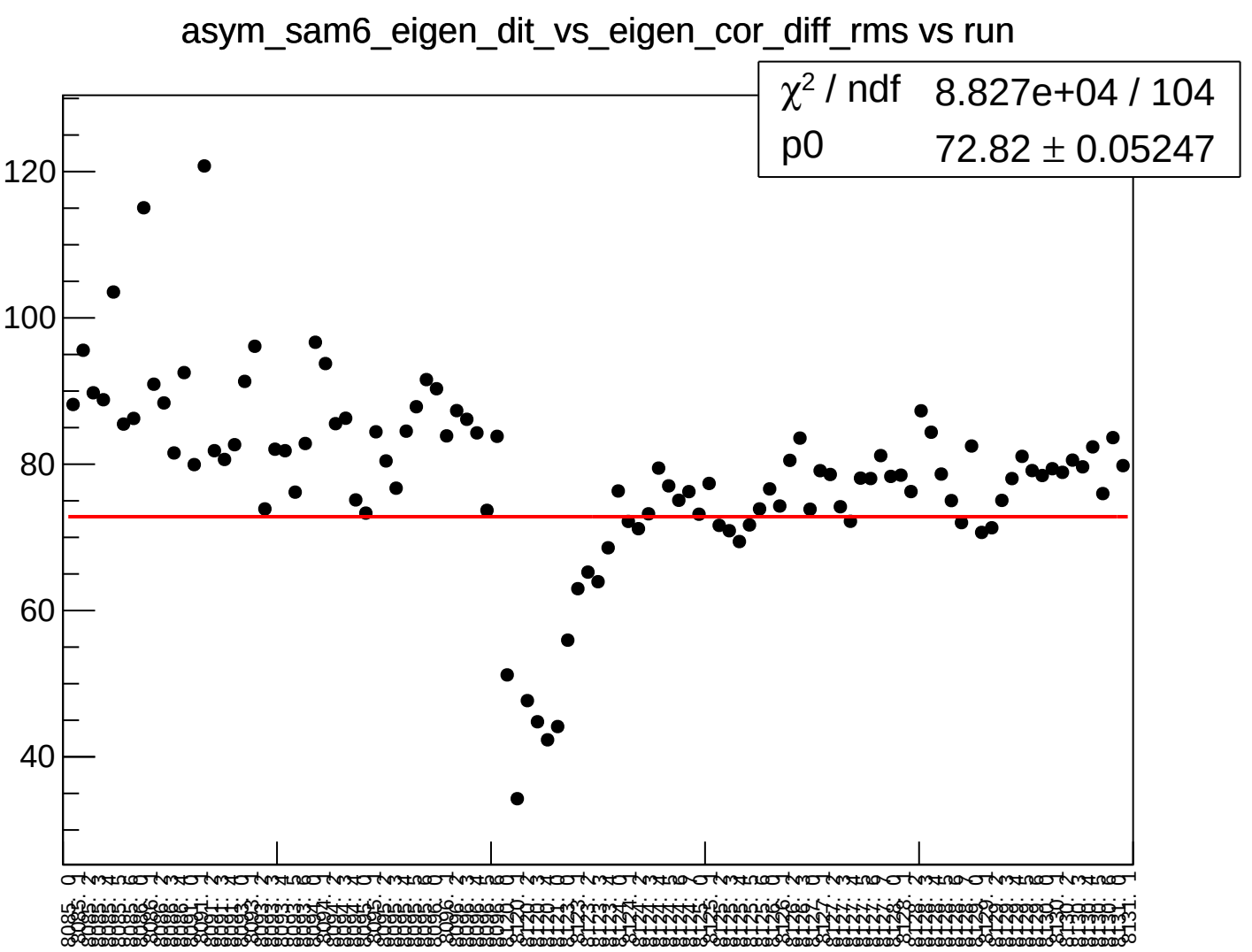

asym_sam6_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.694e+05 / 104
p0 0.001136 ± 8.361e−07
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008

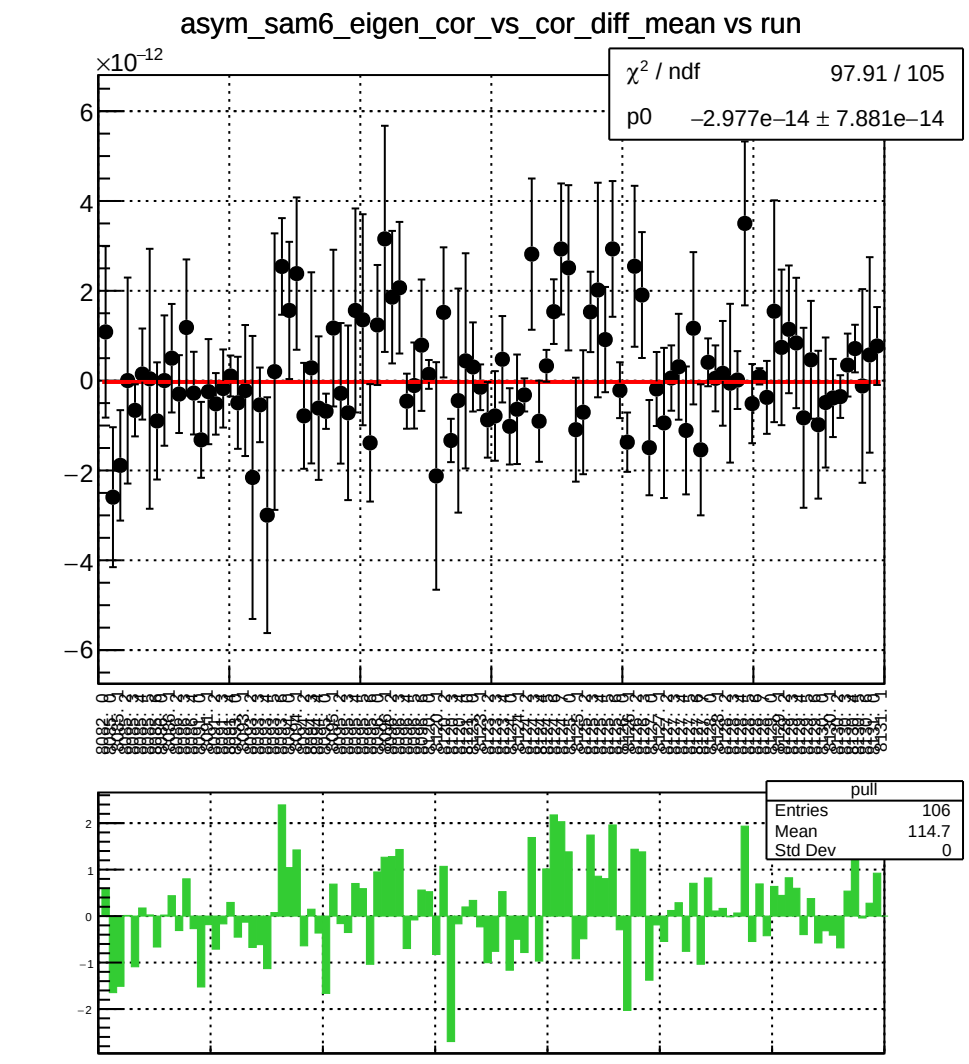

asym_sam6_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 103.6 / 104
p0 0.05763 ± 0.07421
pull
Entries 105
Mean 566
Std Dev 0

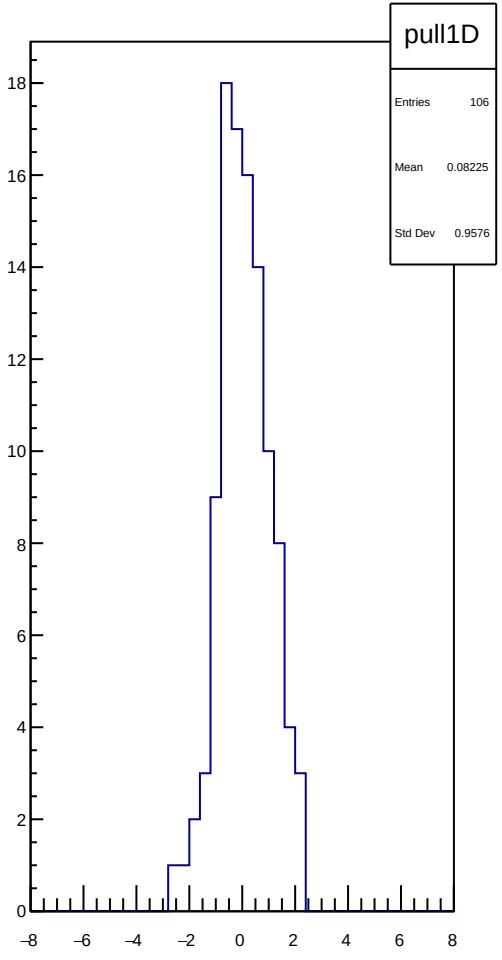

pull1D
Entries 105
Mean −0.00135
Std Dev 0.9935

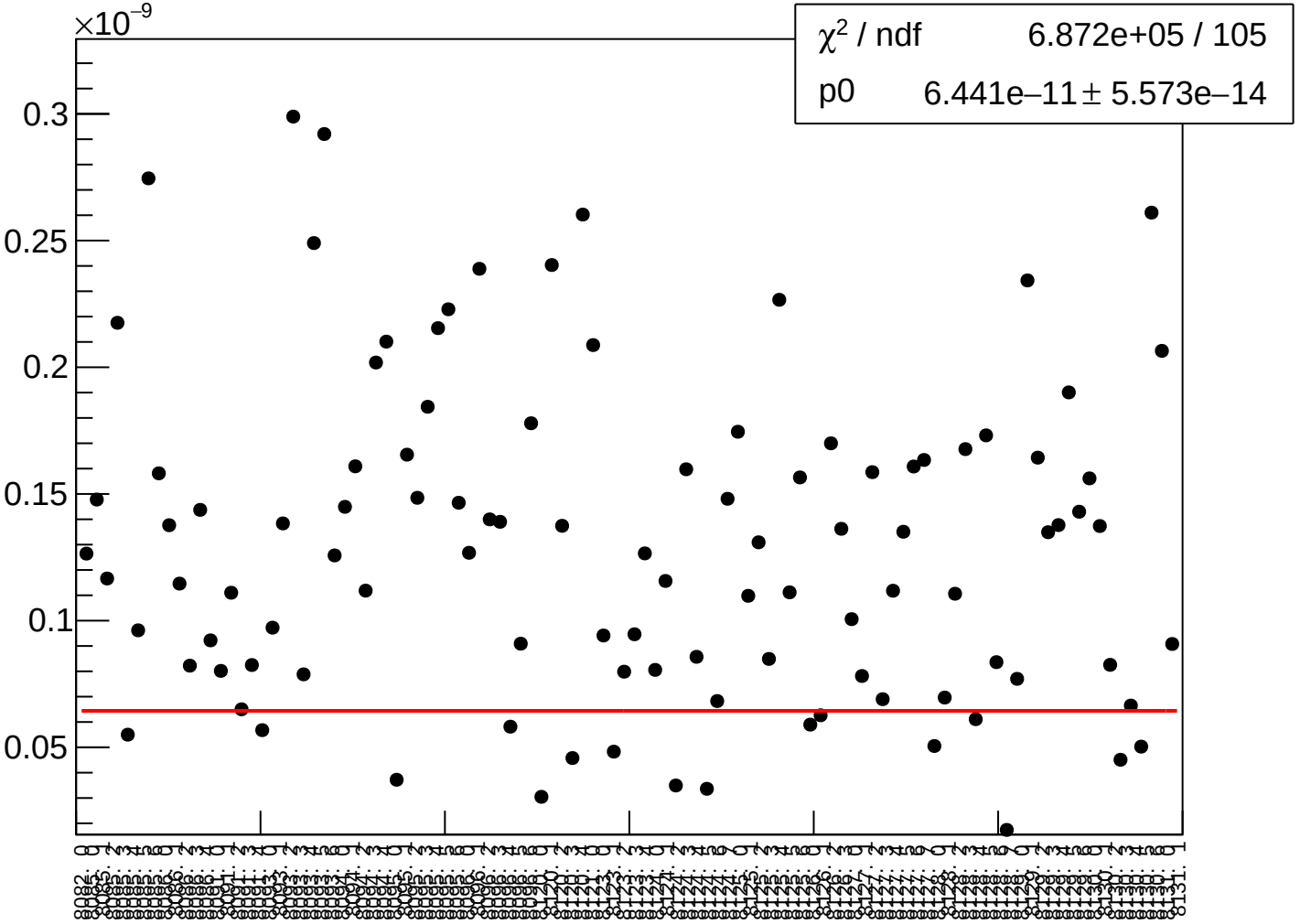

asym_sam6_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.827e+04 / 104
p0 72.82 ± 0.05247
120
100
80
60
40

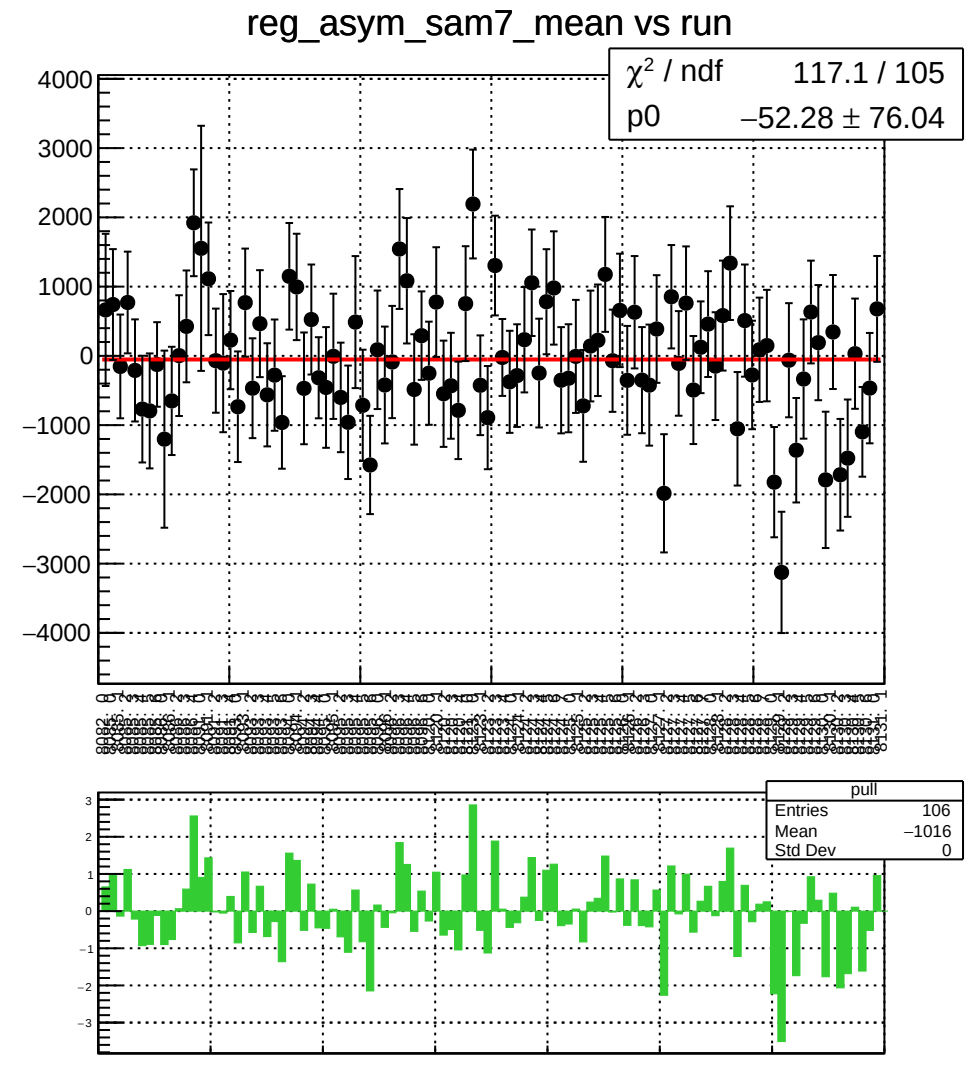

asym_sam6_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.6 / 104
p0 0.05763 ± 0.07421
pull
Entries 105
Mean 566
Std Dev 0
pull1D
Entries 105
Mean −0.00135
Std Dev 0.9935

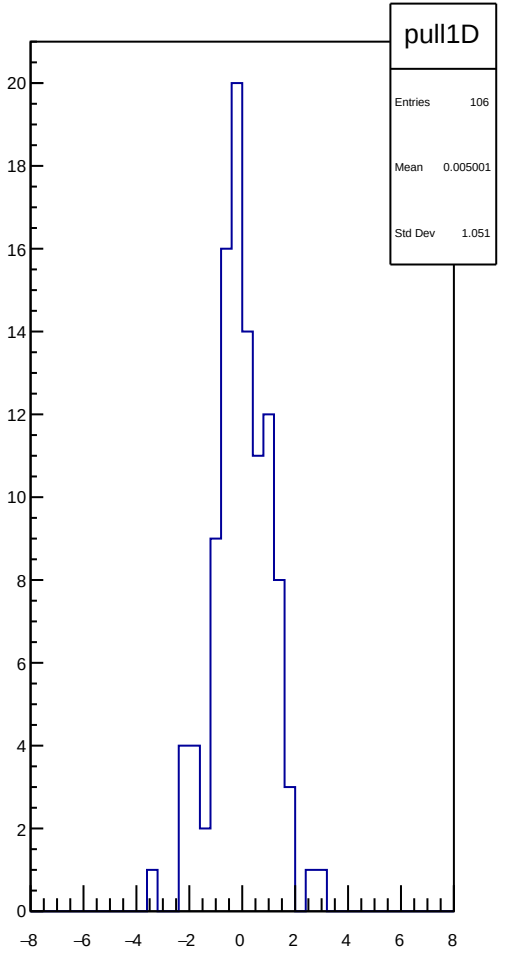

asym_sam6_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.827e+04 / 104
p0 72.82 ± 0.05247
120
100
80
60
40

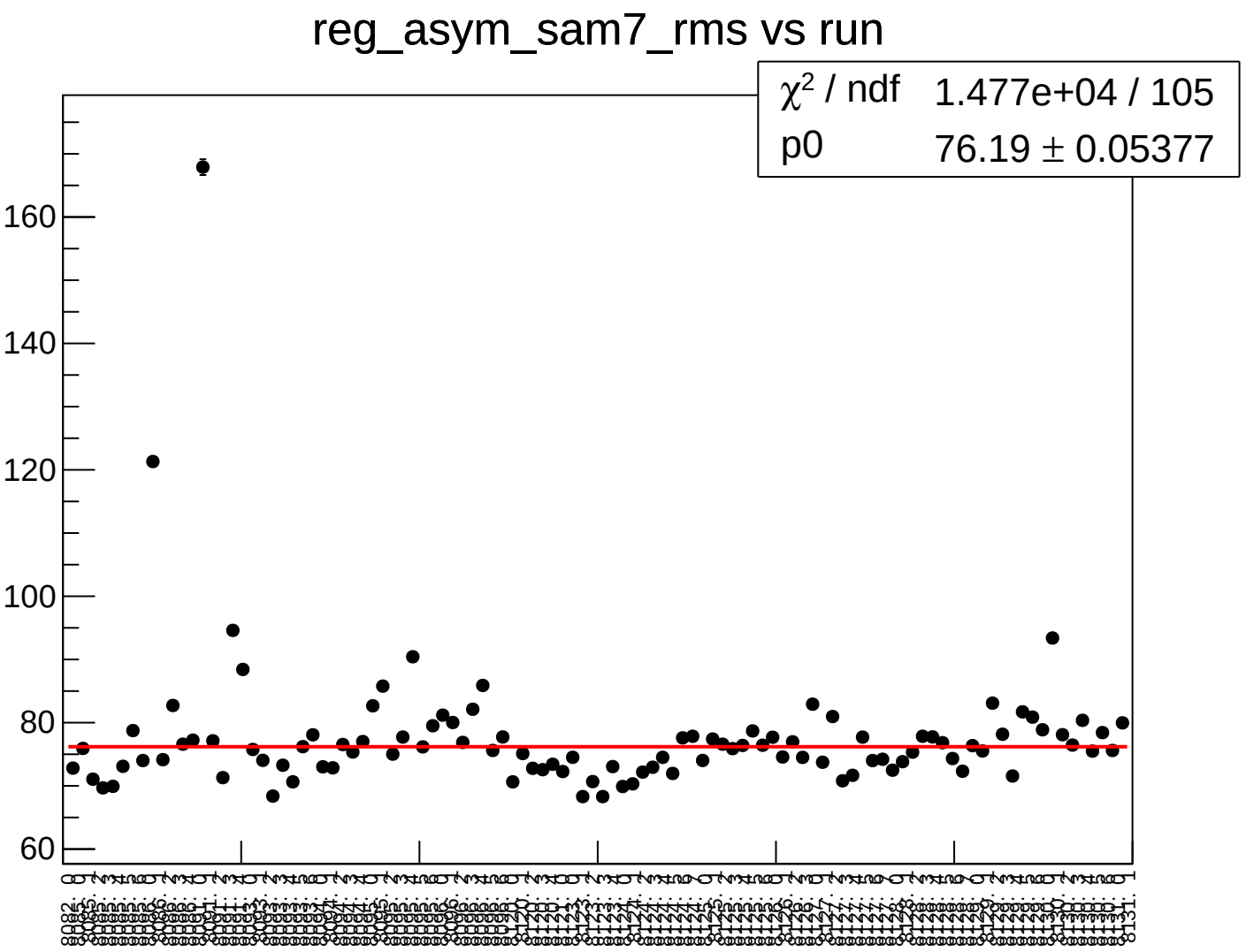

asym_sam6_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.91 / 105
p0 −2.977e−14 ± 7.881e−14
pull
Entries 106
Mean 114.7
Std Dev 0

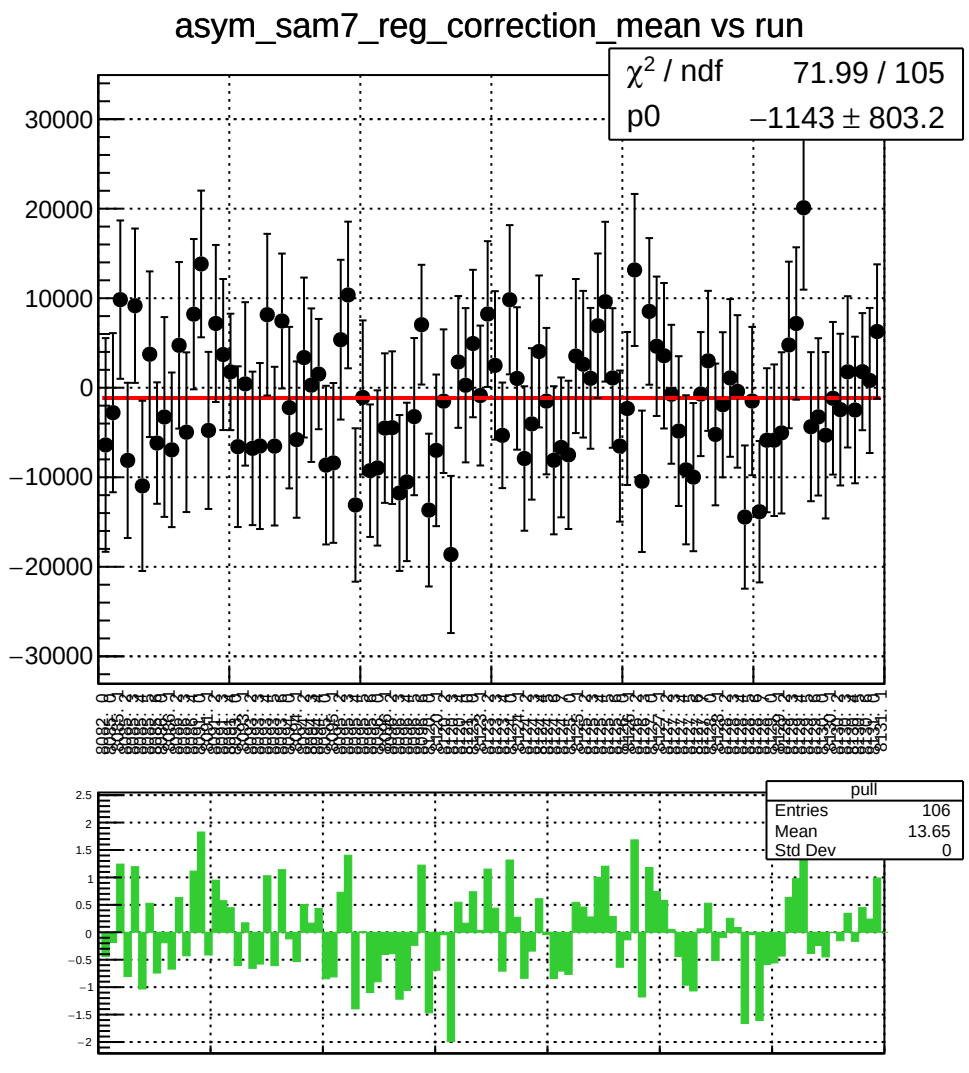

pull1D
Entries 106
Mean 0.08225
Std Dev 0.9576

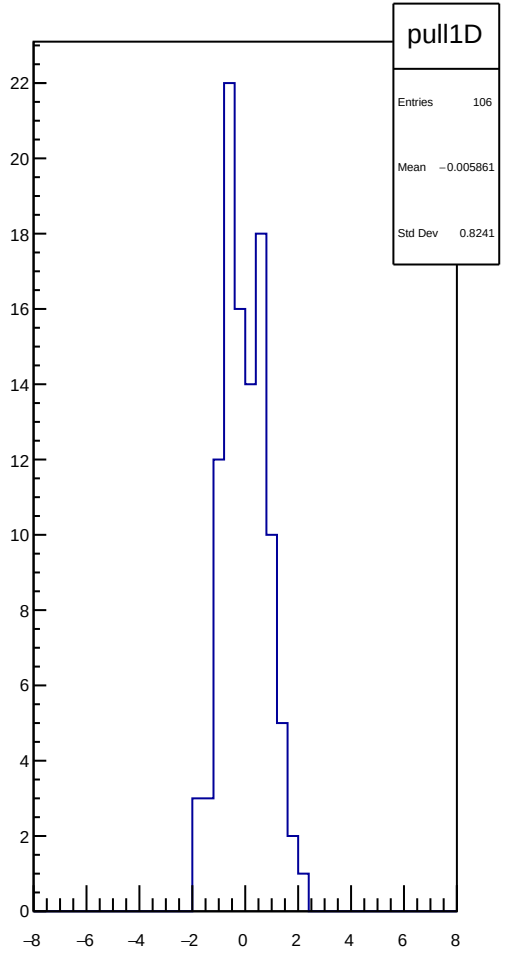

asym_sam6_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.872e+05 / 105
p0 6.441e−11 ± 5.573e−14
0.3
0.25
0.2
0.15
0.1
0.05

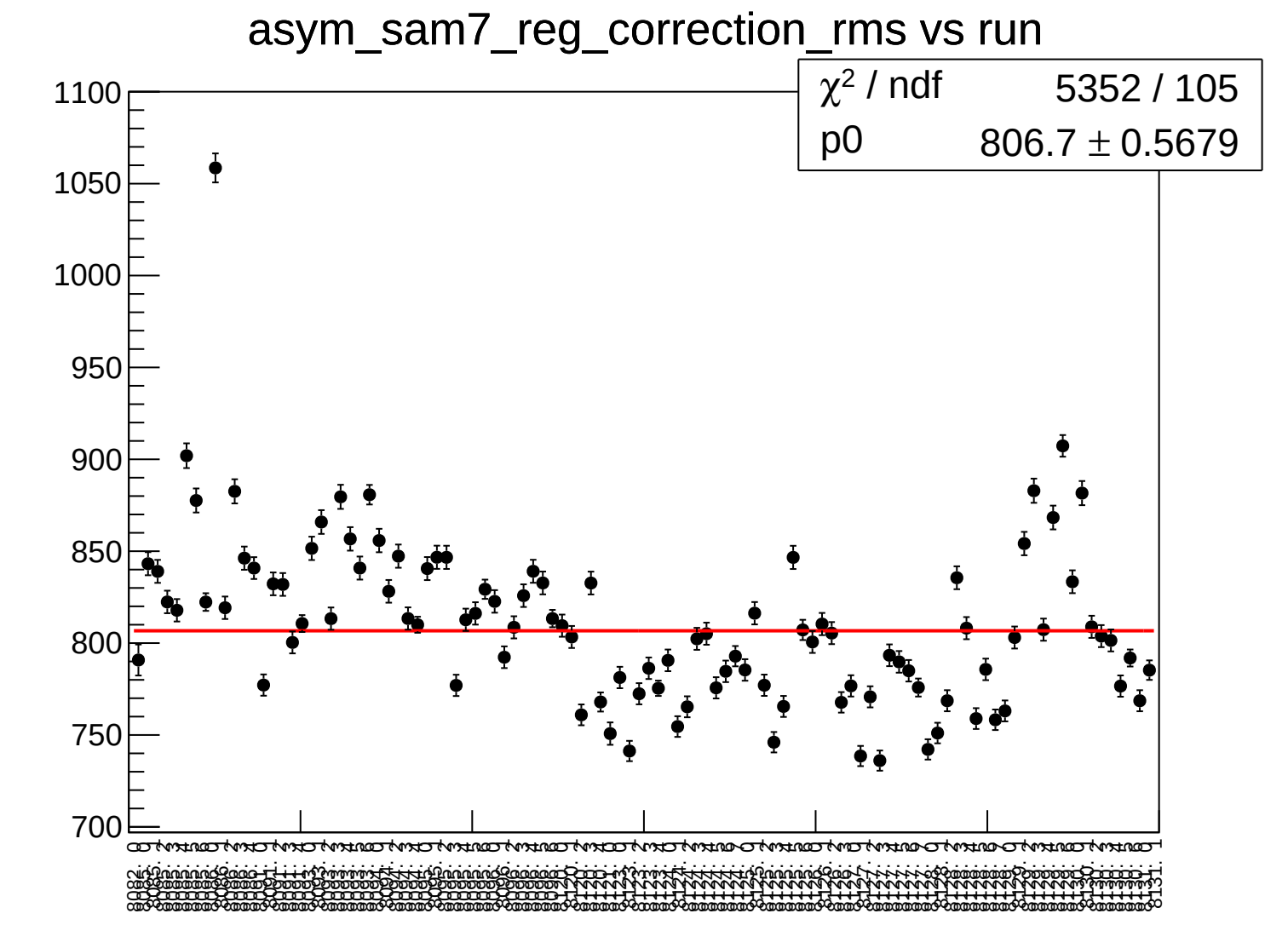

reg_asym_sam7_mean vs run
χ² / ndf 117.1 / 105
p0 −52.28 ± 76.04
pull
Entries 106
Mean −1016
Std Dev 0

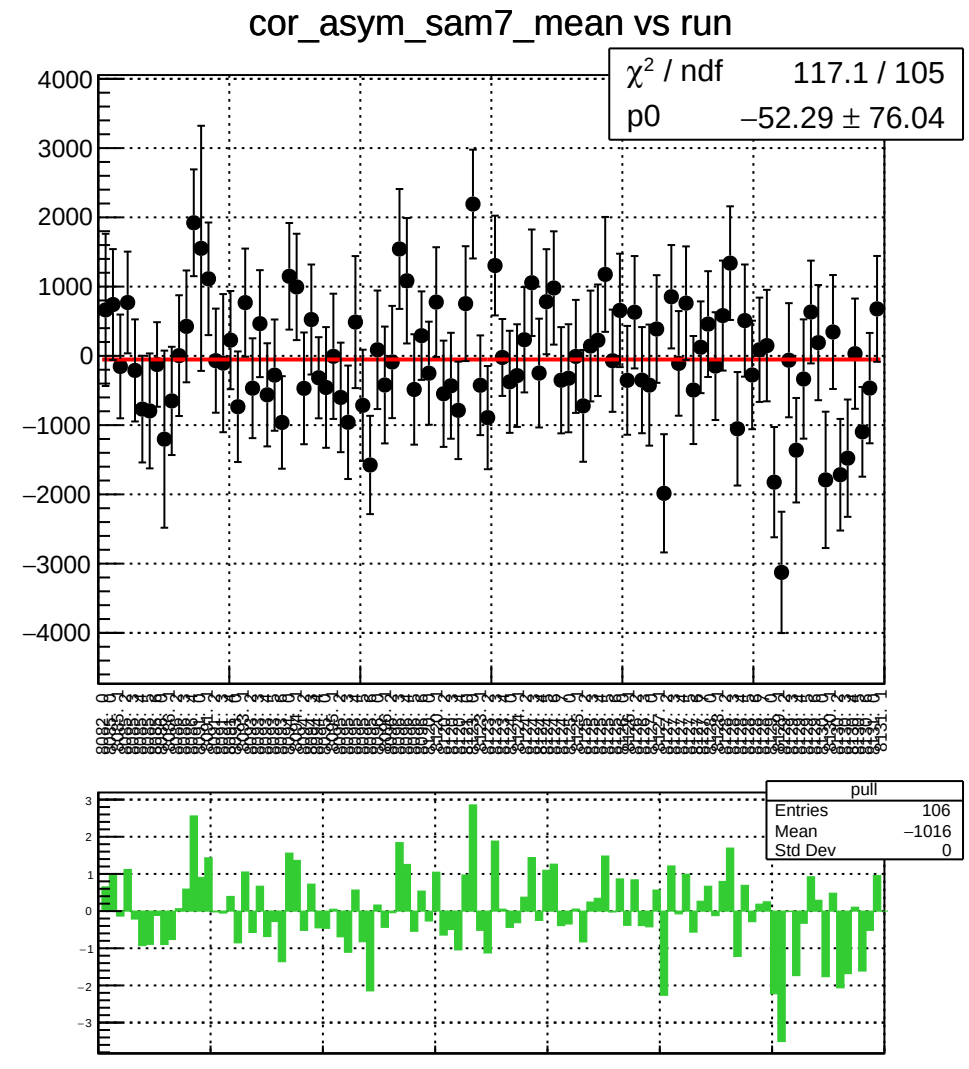

pull1D
Entries 106
Mean 0.005001
Std Dev 1.051

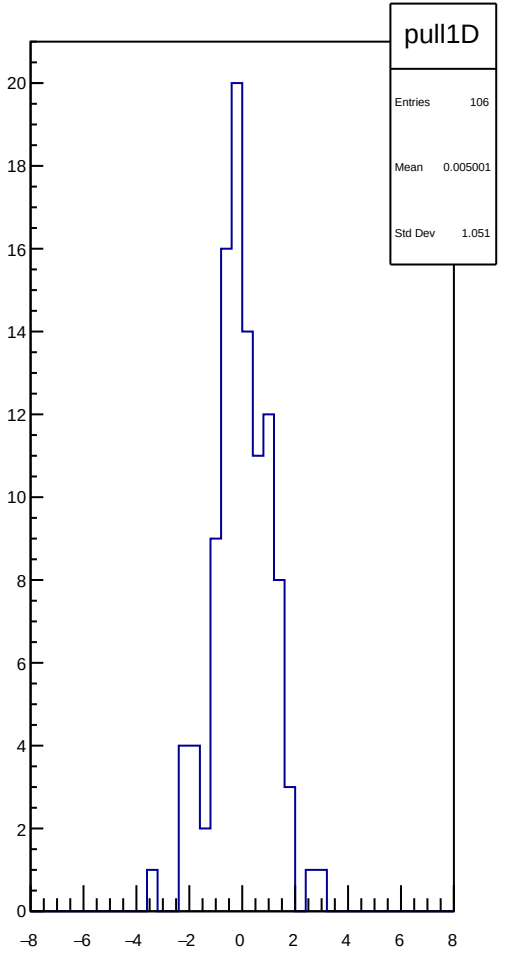

reg_asym_sam7_rms vs run
χ² / ndf 1.477e+04 / 105
p0 76.19 ± 0.05377
160
140
120
100
80
60

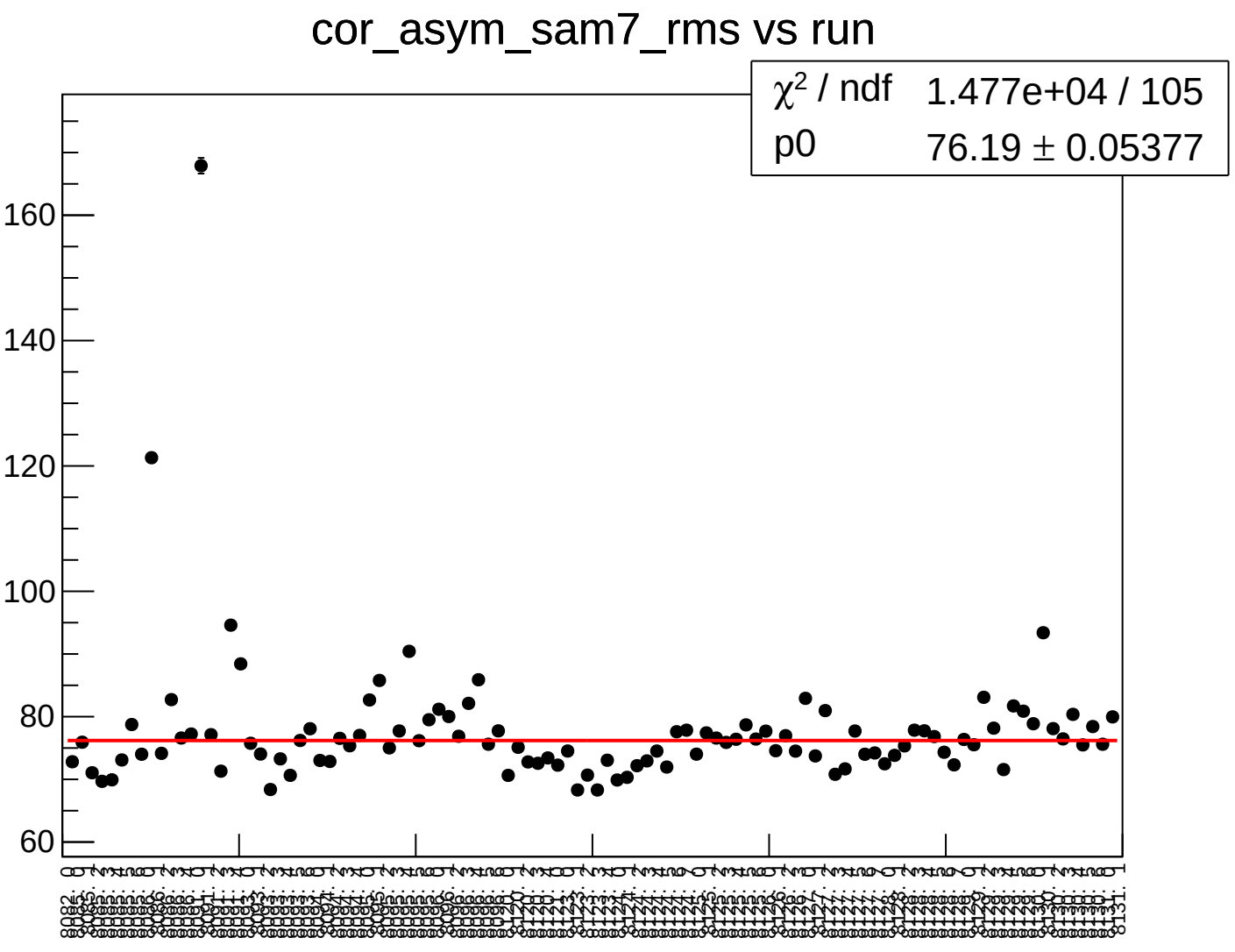

asym_sam7_reg_correction_mean vs run
χ² / ndf 71.99 / 105
p0 −1143 ± 803.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 106
Mean 13.65
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

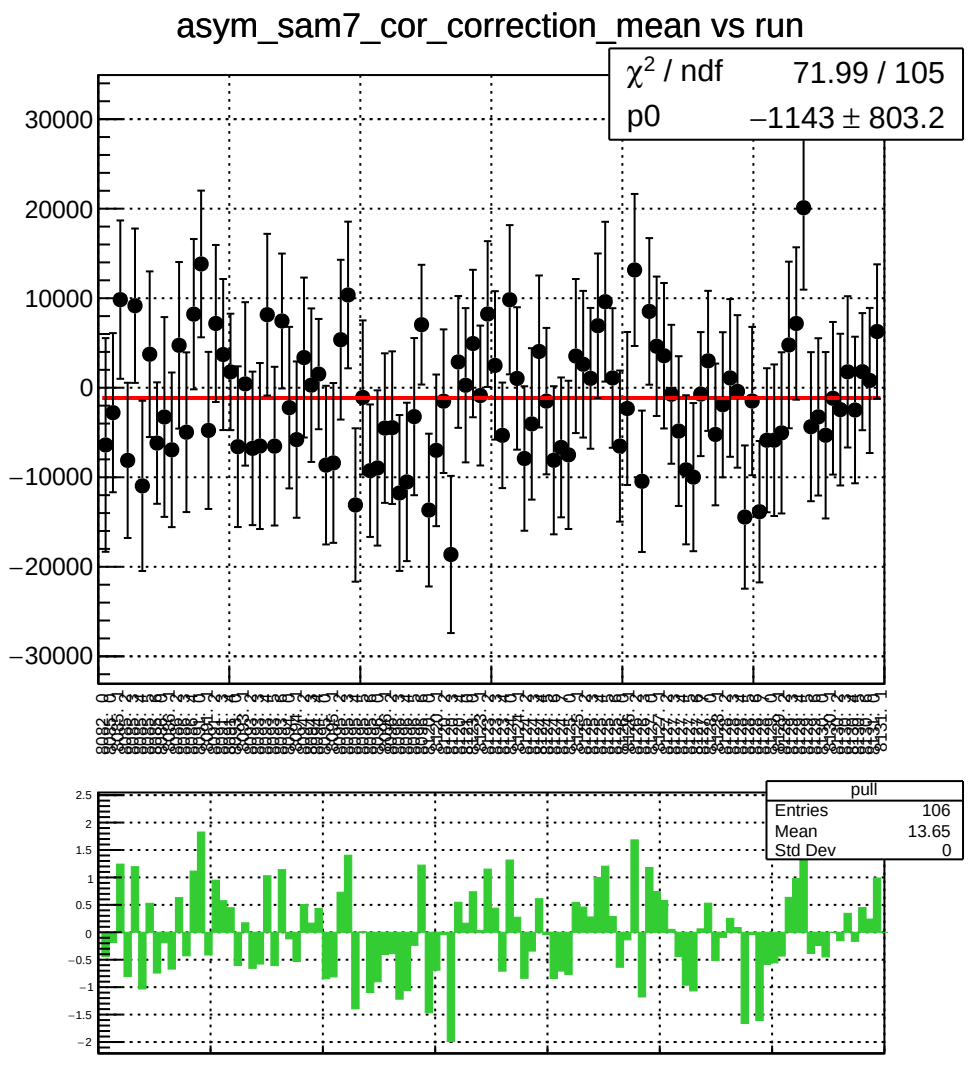

pull1D
Entries 106
Mean −0.005861
Std Dev 0.8241
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

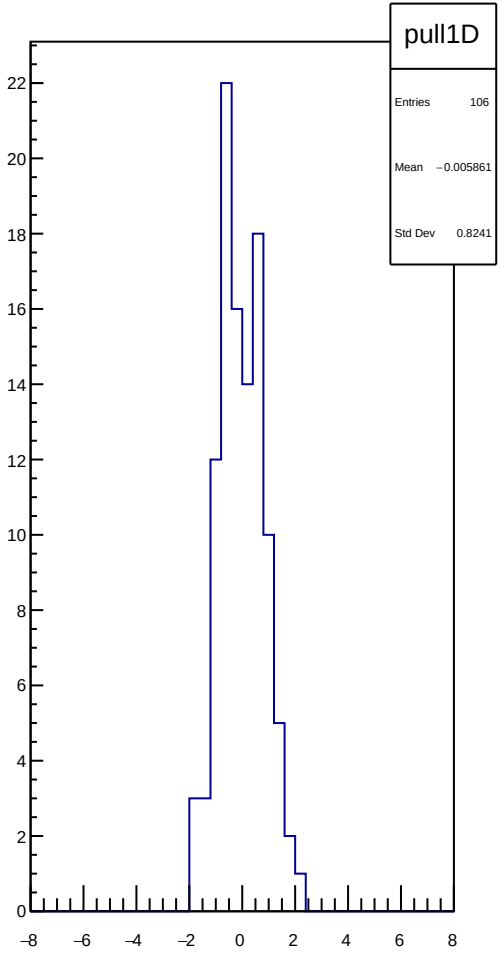

asym_sam7_reg_correction_rms vs run
$\chi^2$ / ndf 5352 / 105
p0 806.7 ± 0.5679
1100
1050
1000
950
900
850
800
750
700

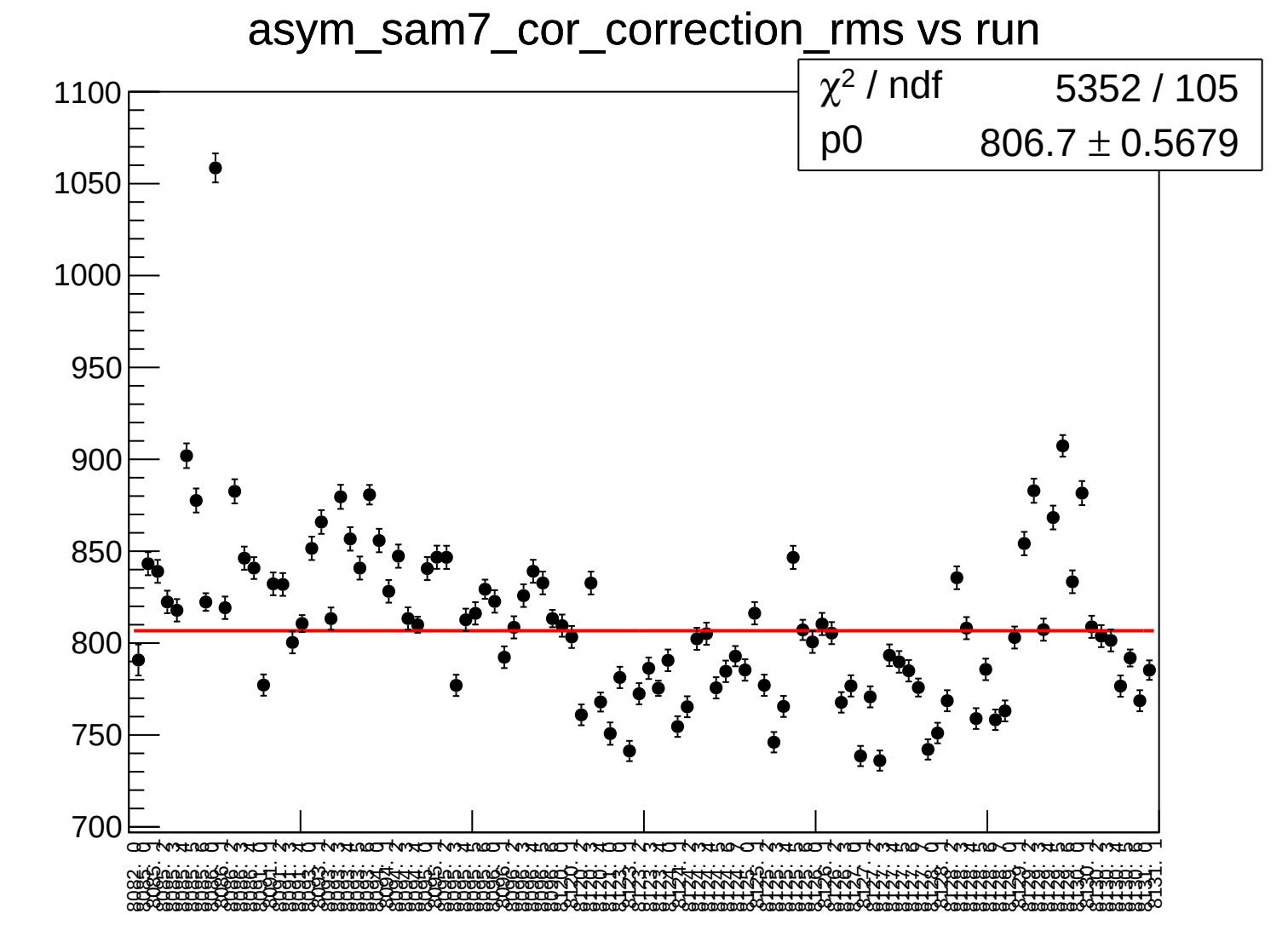

cor_asym_sam7_mean vs run
χ² / ndf 117.1 / 105
p0 −52.29 ± 76.04
pull
Entries 106
Mean −1016
Std Dev 0

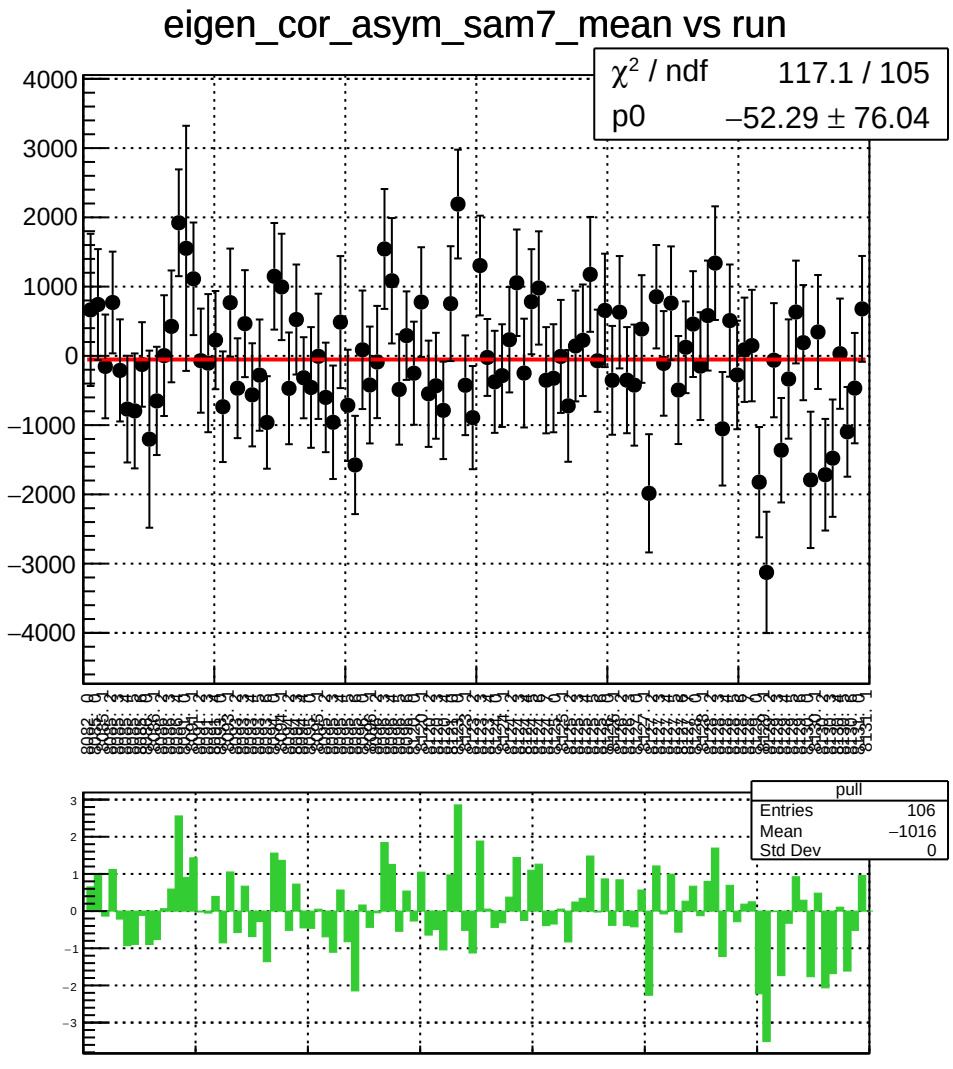

pull1D
Entries 106
Mean 0.005001
Std Dev 1.051

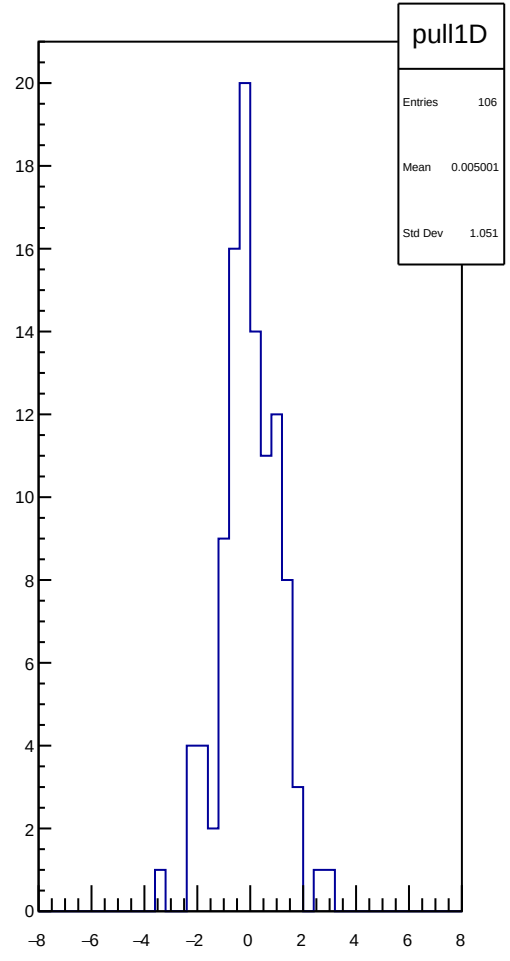

cor_asym_sam7_rms vs run
χ² / ndf 1.477e+04 / 105
p0 76.19 ± 0.05377
160
140
120
100
80
60

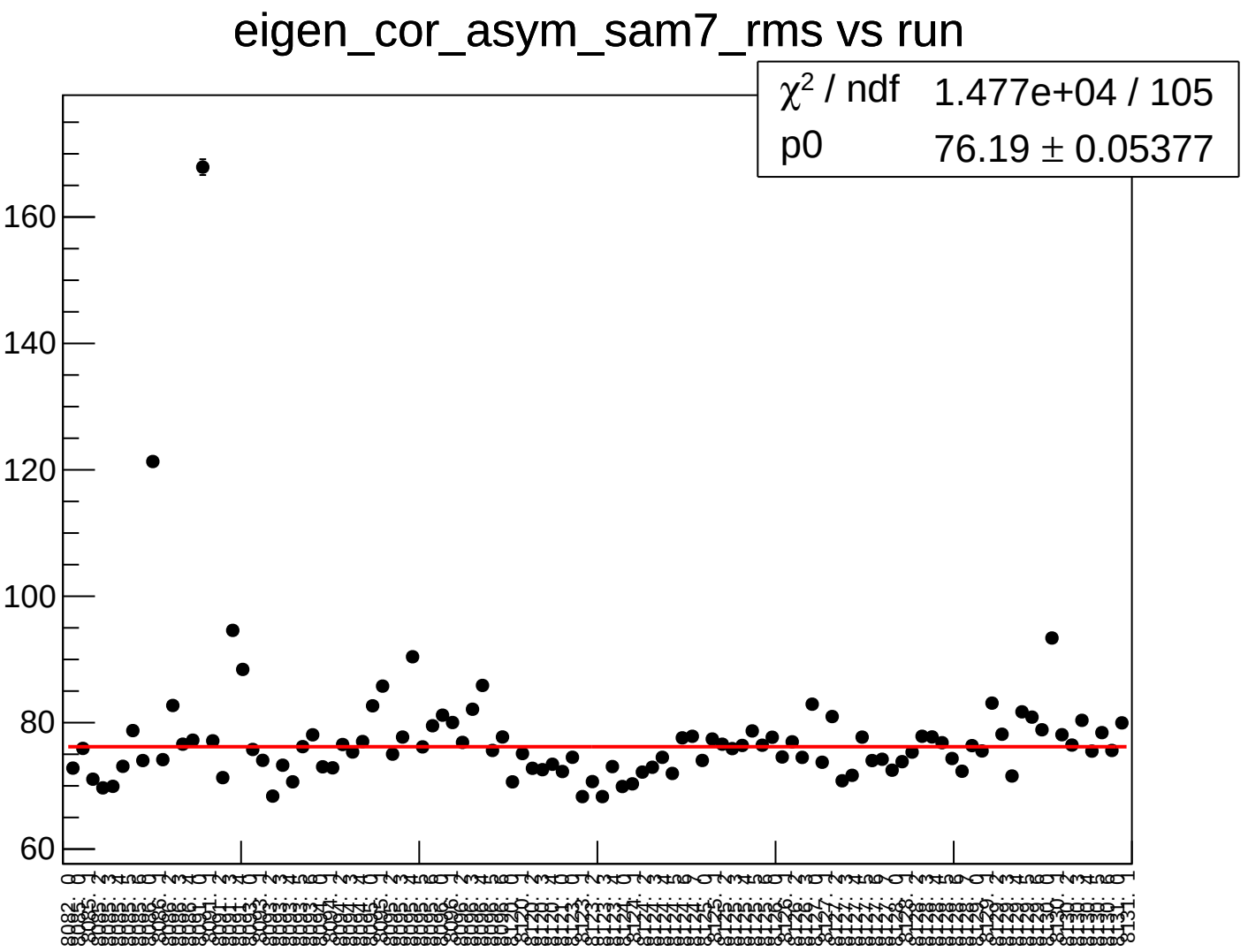

asym_sam7_cor_correction_mean vs run
χ² / ndf 71.99 / 105
p0 −1143 ± 803.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 106
Mean 13.65
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

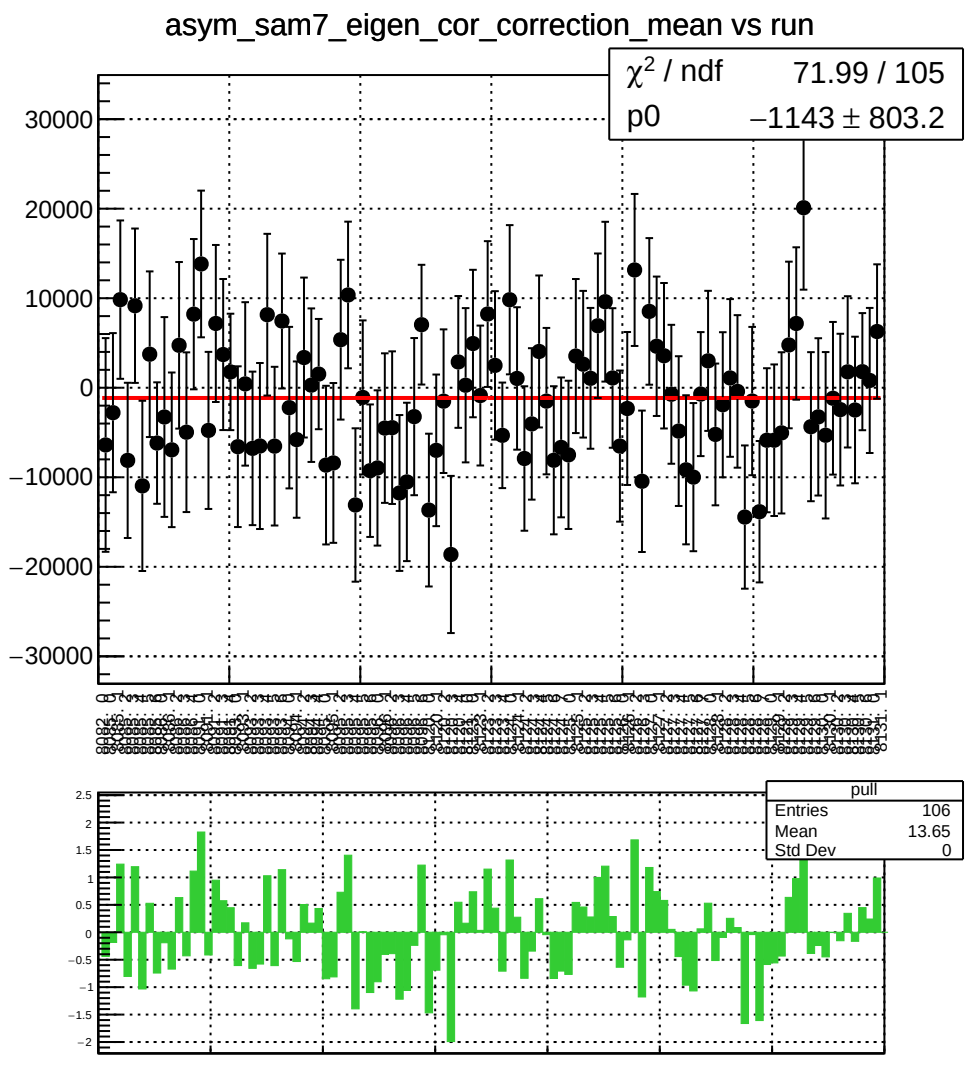

pull1D
Entries 106
Mean −0.005861
Std Dev 0.8241
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

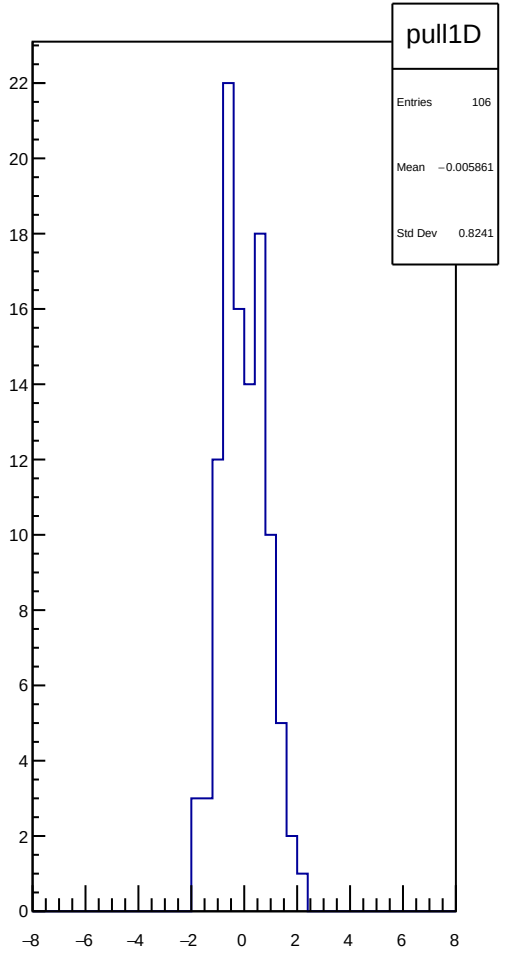

asym_sam7_cor_correction_rms vs run
$\chi^2$ / ndf 5352 / 105
p0 806.7 ± 0.5679
1100
1050
1000
950
900
850
800
750
700

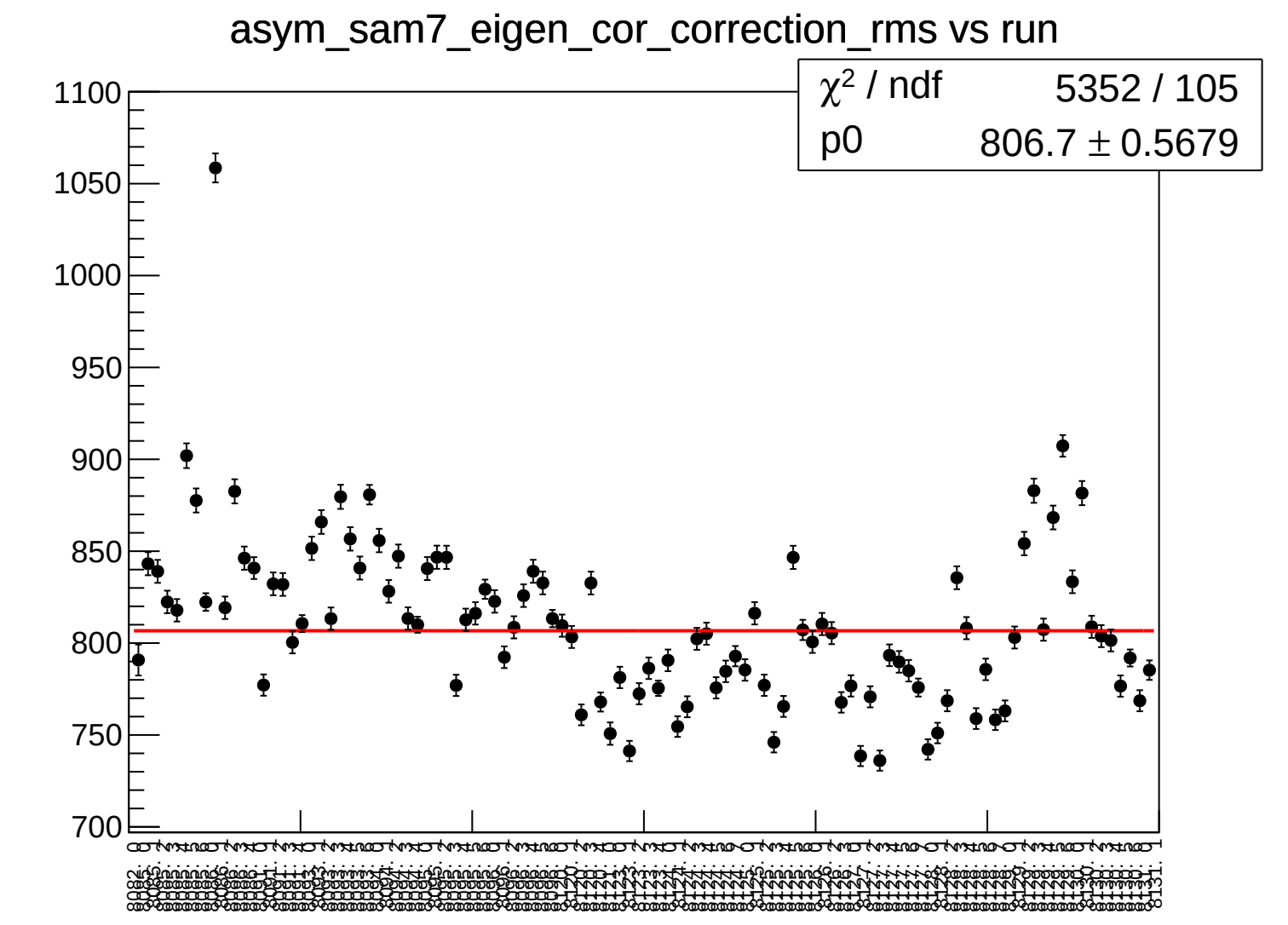

eigen_cor_asym_sam7_mean vs run
χ² / ndf 117.1 / 105
p0 −52.29 ± 76.04
pull
Entries 106
Mean −1016
Std Dev 0

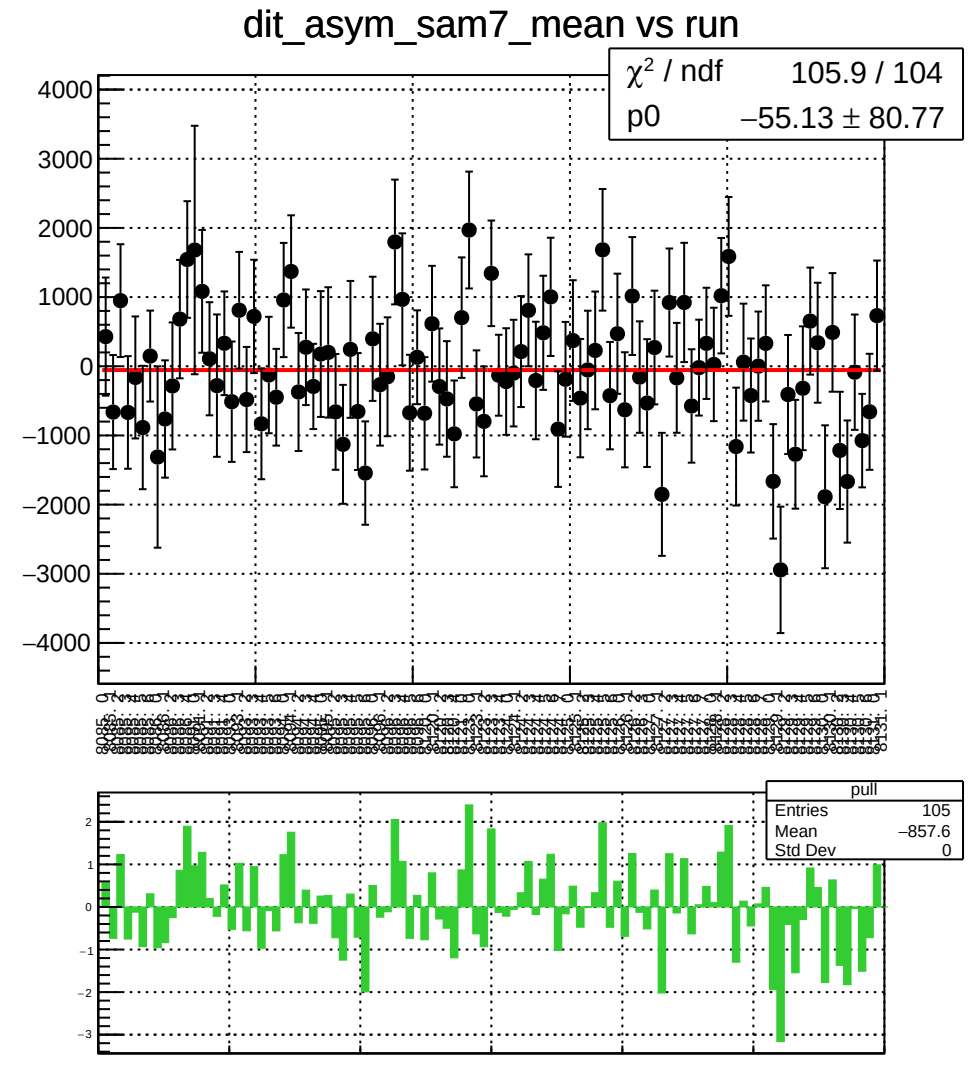

pull1D
Entries 106
Mean 0.005001
Std Dev 1.051

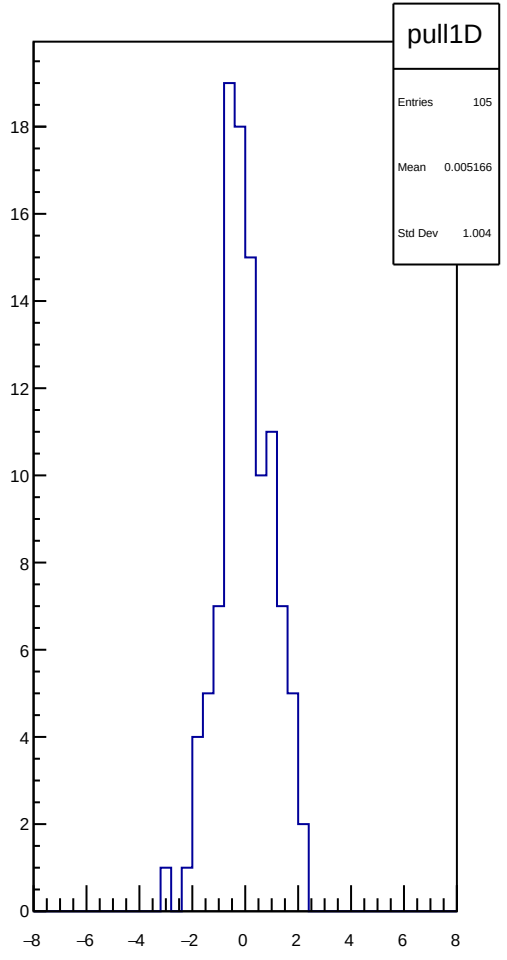

eigen_cor_asym_sam7_rms vs run
χ² / ndf 1.477e+04 / 105
p0 76.19 ± 0.05377
160
140
120
100
80
60

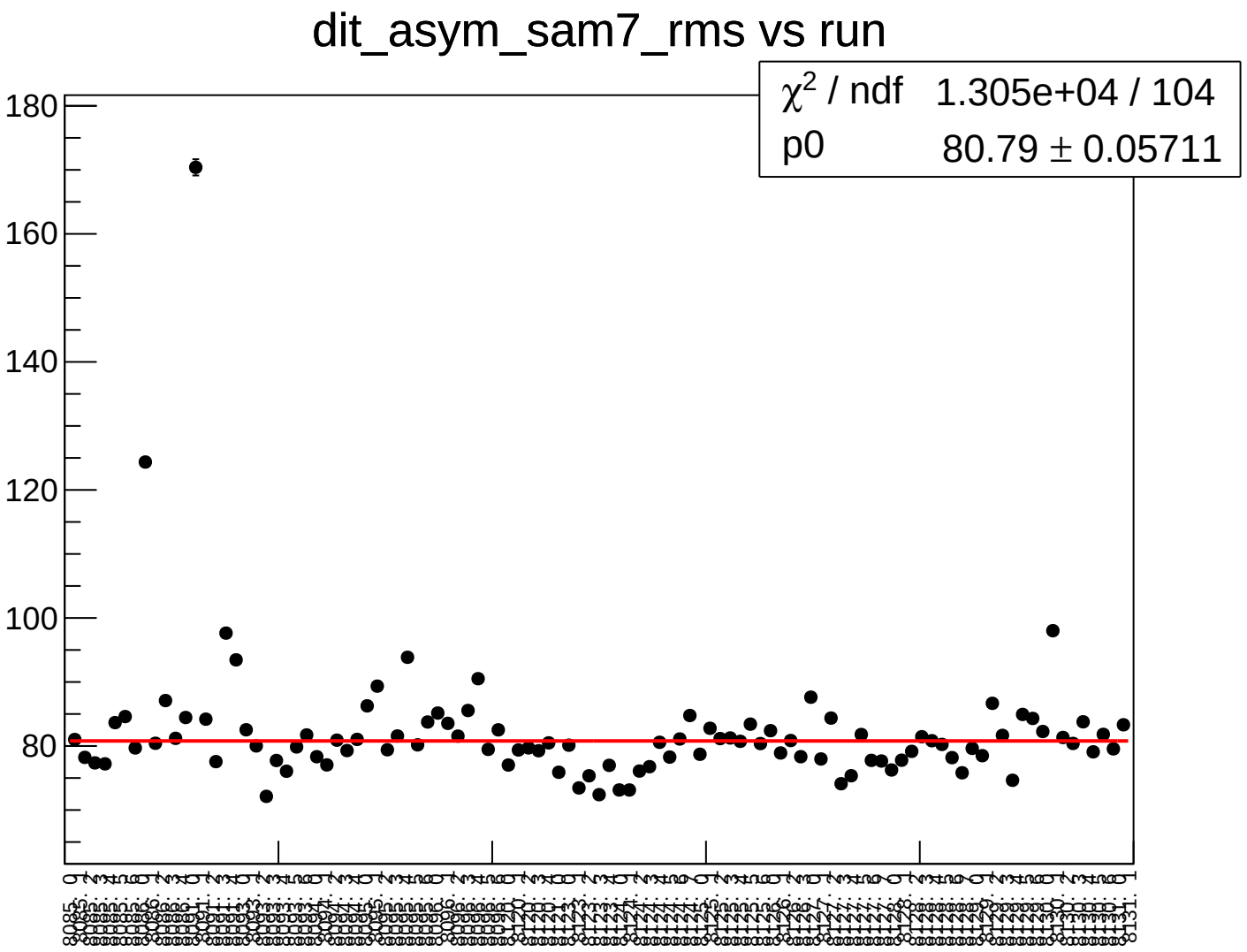

asym_sam7_eigen_cor_correction_mean vs run
χ² / ndf 71.99 / 105
p0 −1143 ± 803.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 106
Mean 13.65
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

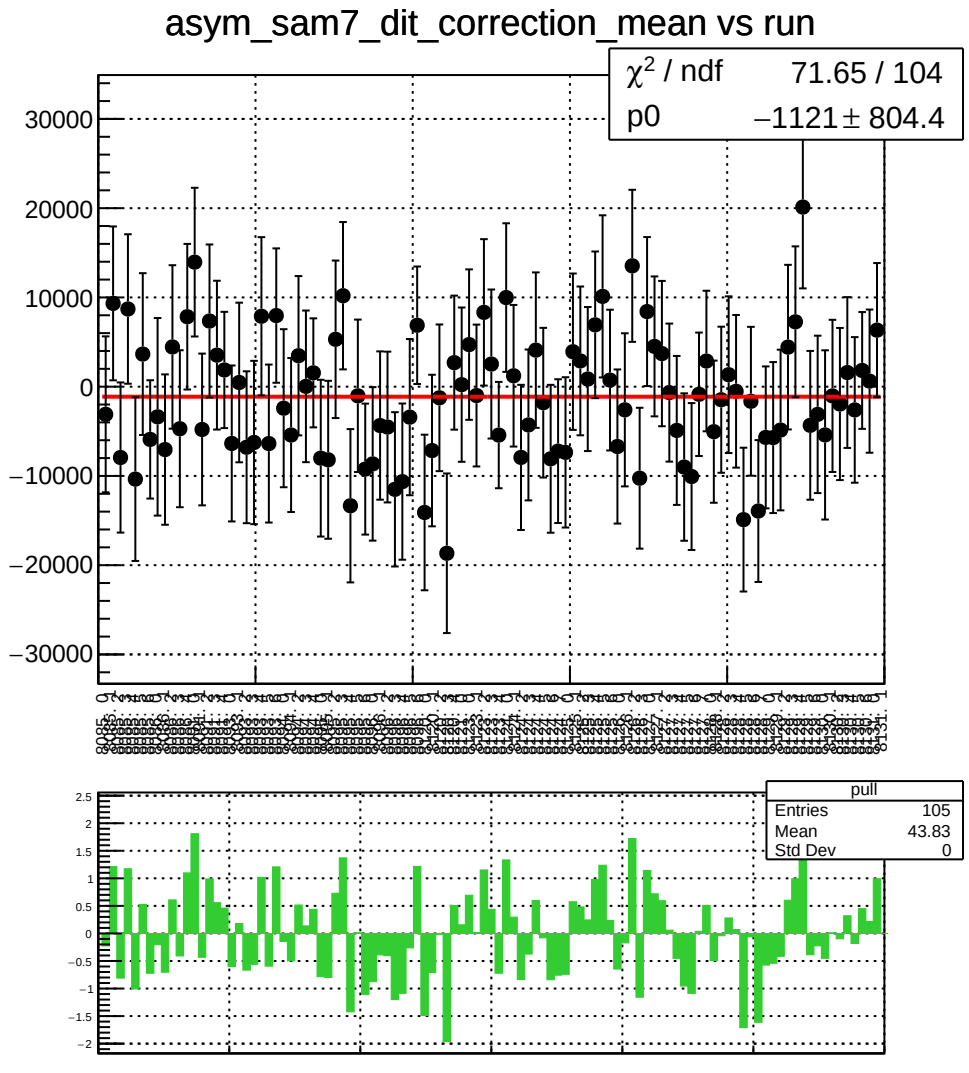

pull1D
Entries 106
Mean −0.005861
Std Dev 0.8241
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

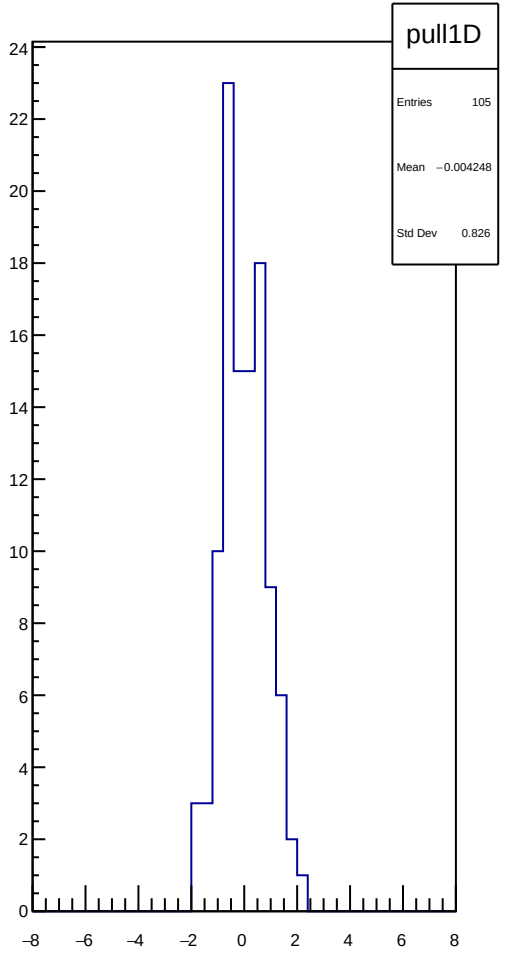

asym_sam7_eigen_cor_correction_rms vs run
$\chi^2$ / ndf 5352 / 105
p0 806.7 ± 0.5679
1100
1050
1000
950
900
850
800
750
700

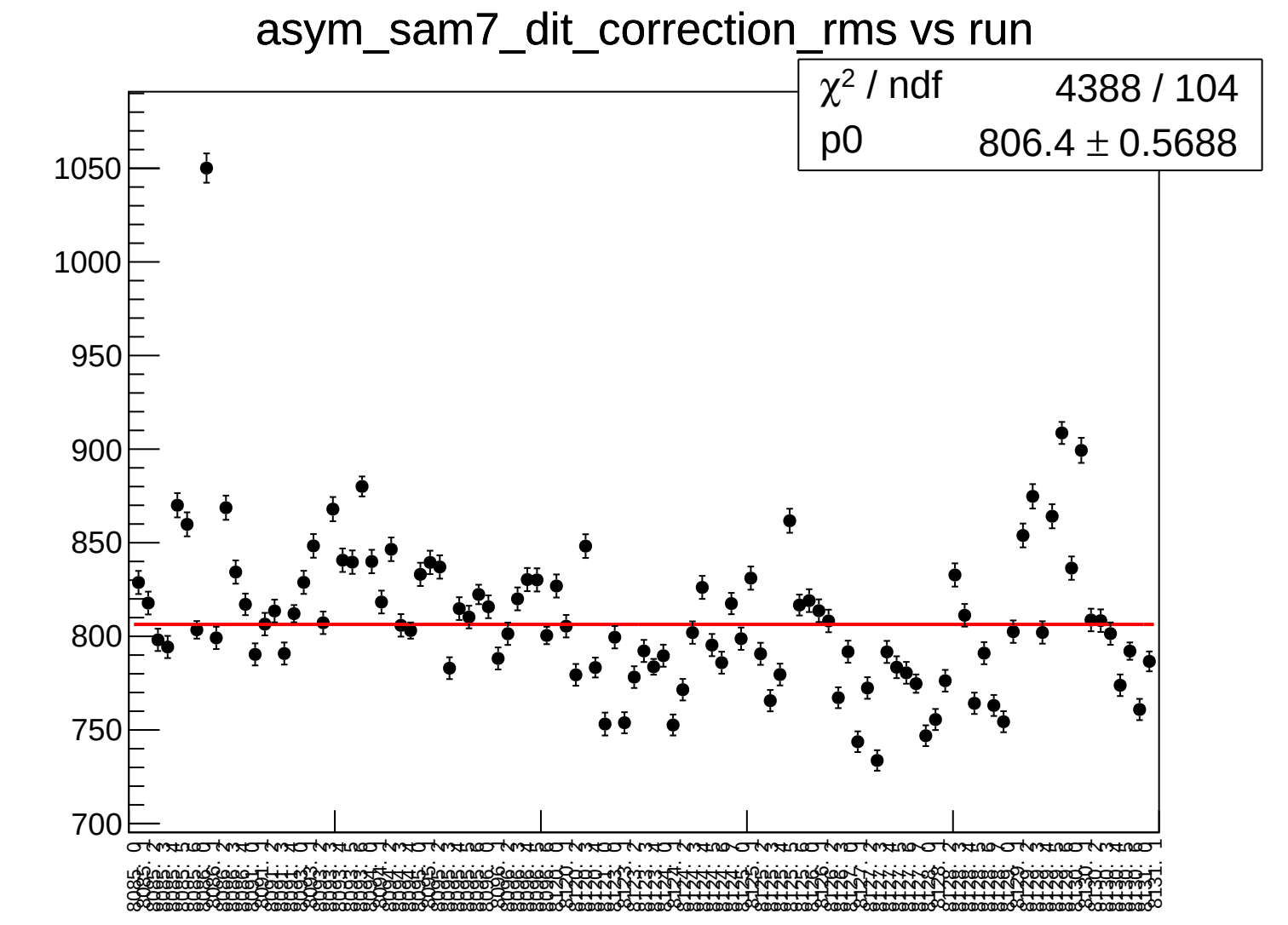

dit_asym_sam7_mean vs run
χ² / ndf 105.9 / 104
p0 −55.13 ± 80.77
pull
Entries 105
Mean −857.6
Std Dev 0

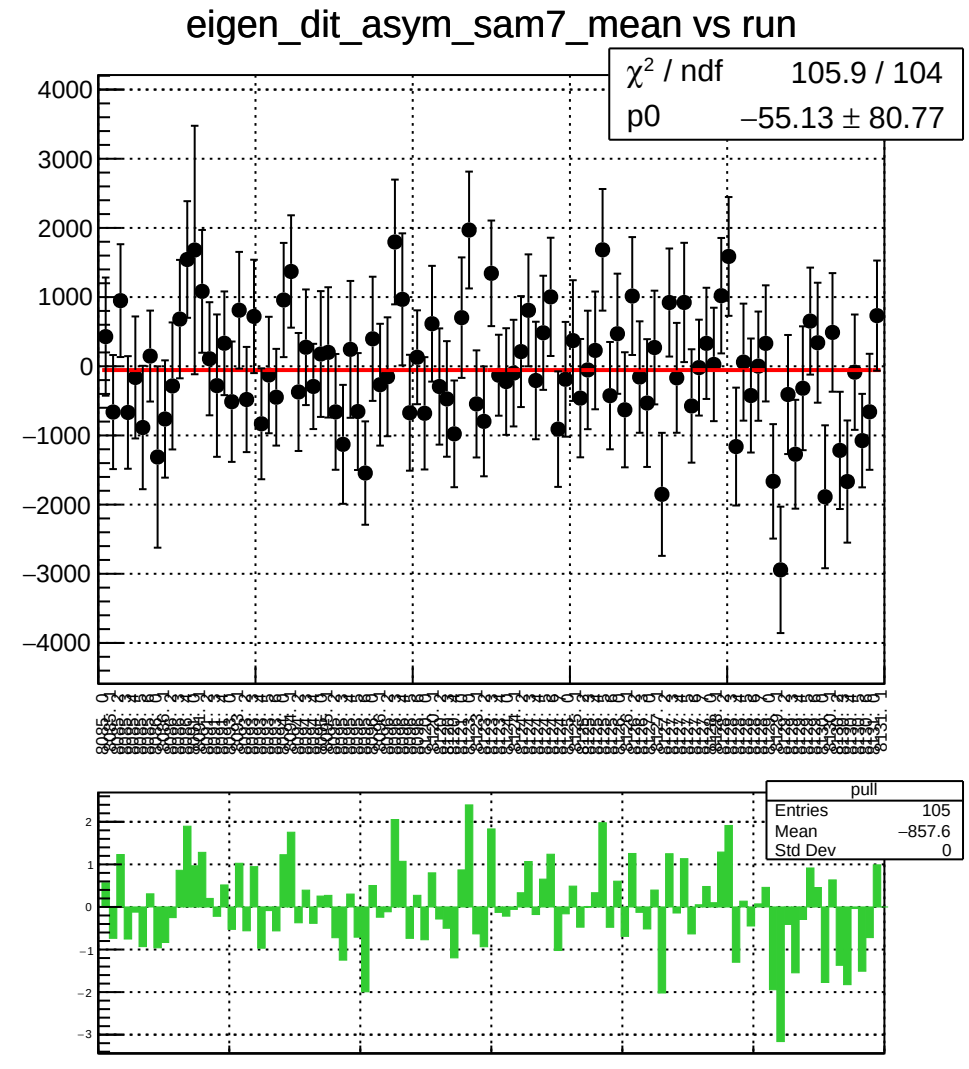

pull1D
Entries 105
Mean 0.005166
Std Dev 1.004

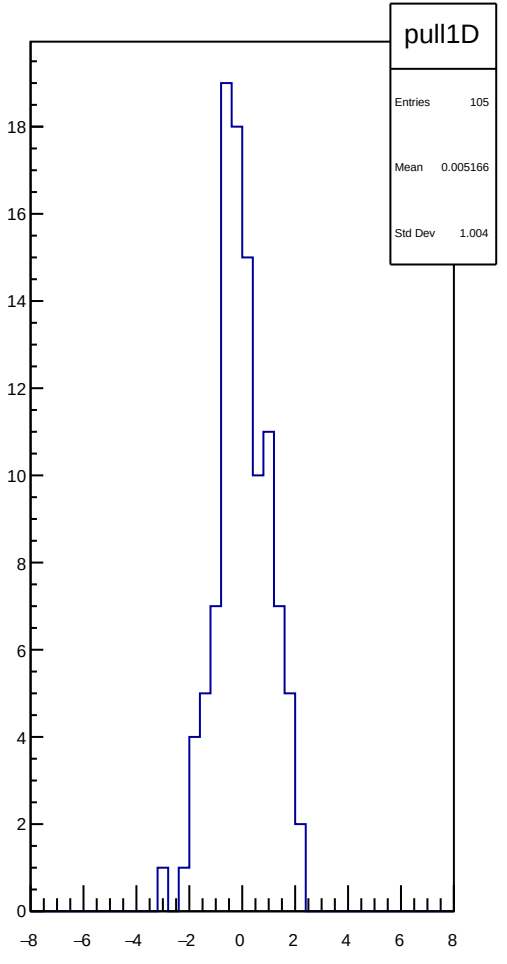

dit_asym_sam7_rms vs run
χ² / ndf 1.305e+04 / 104
p0 80.79 ± 0.05711
180
160
140
120
100
80

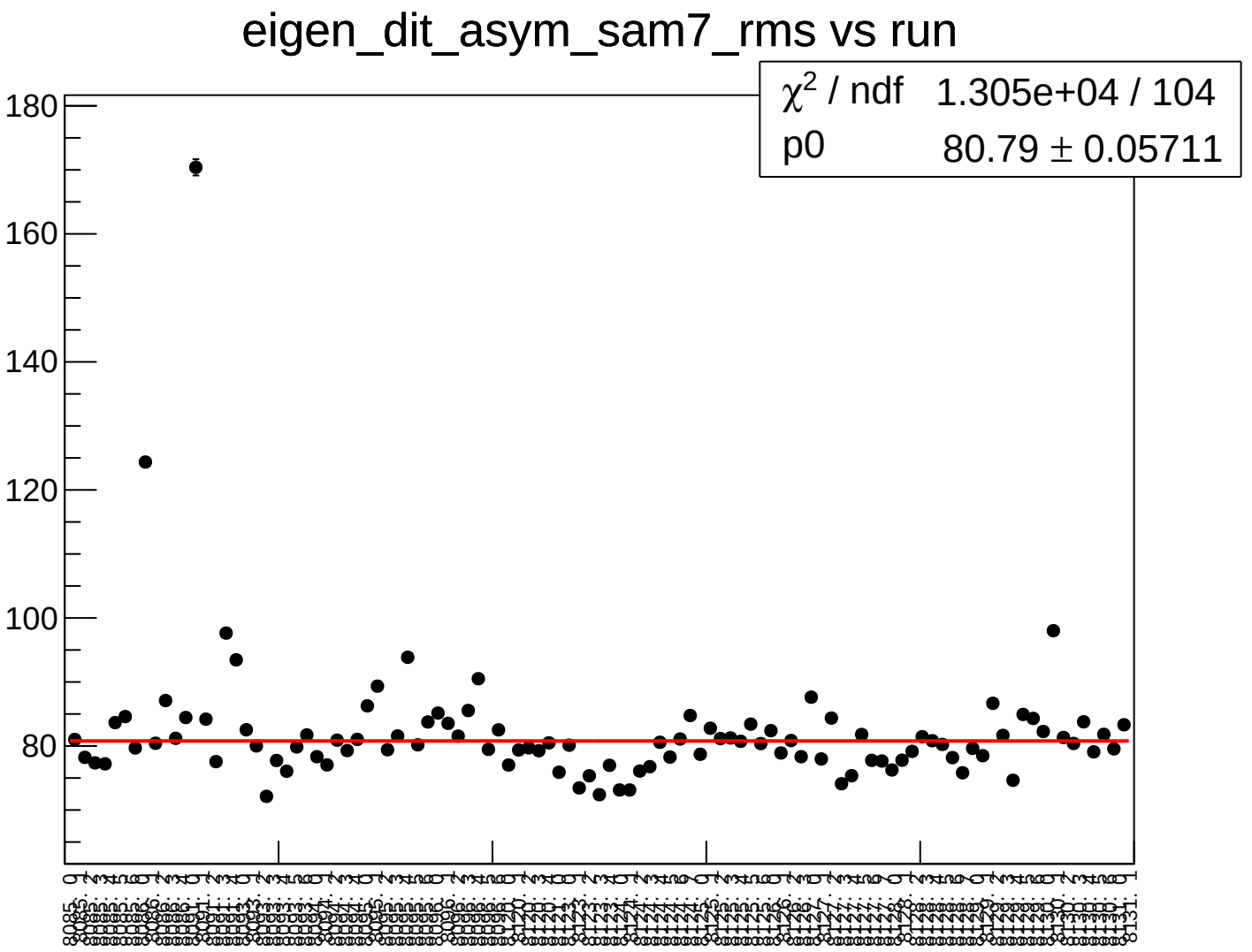

asym_sam7_dit_correction_mean vs run
χ² / ndf 71.65 / 104
p0 −1121 ± 804.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 105
Mean 43.83
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

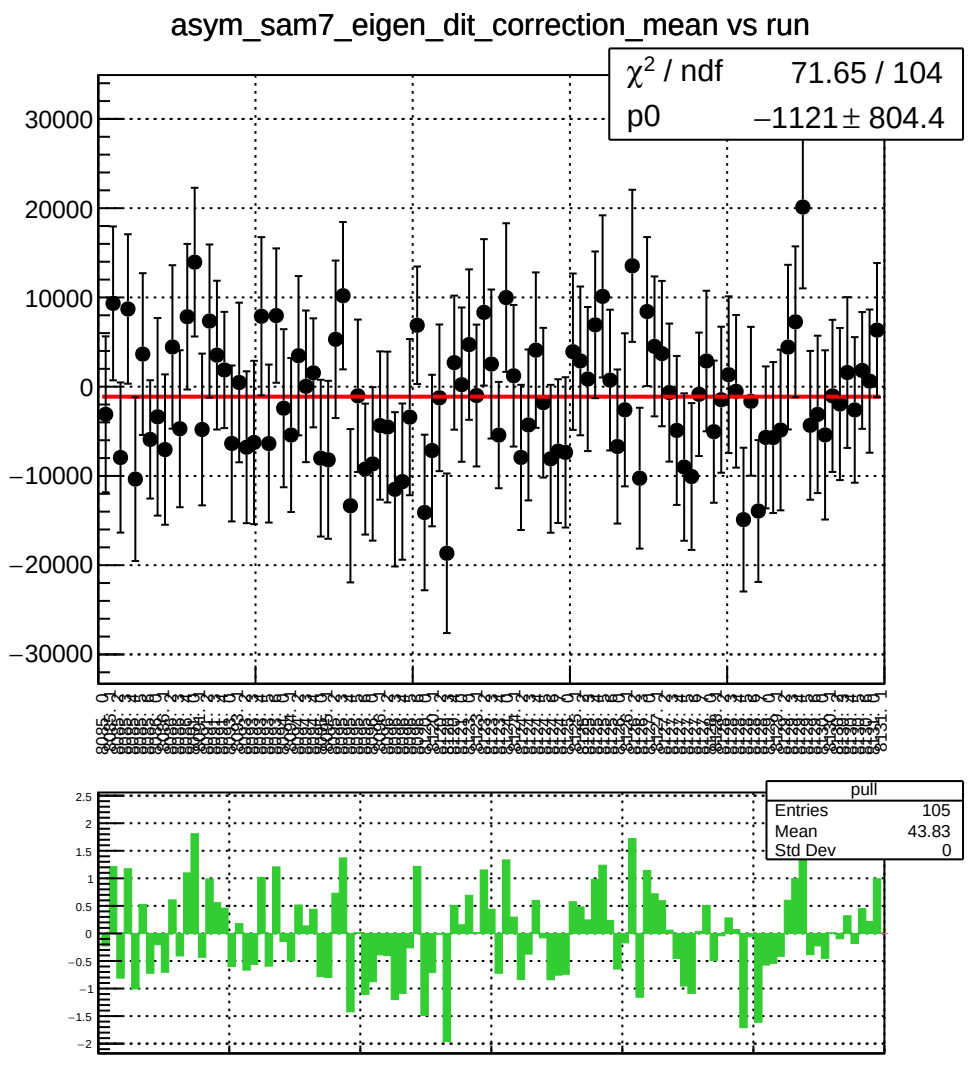

pull1D
Entries 105
Mean −0.004248
Std Dev 0.826
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

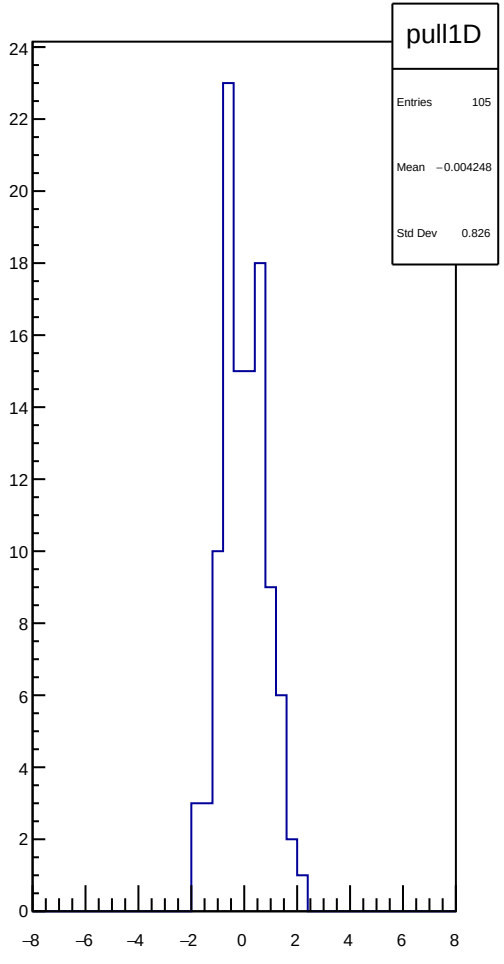

asym_sam7_dit_correction_rms vs run
χ² / ndf 4388 / 104
p0 806.4 ± 0.5688
1050
1000
950
900
850
800
750
700

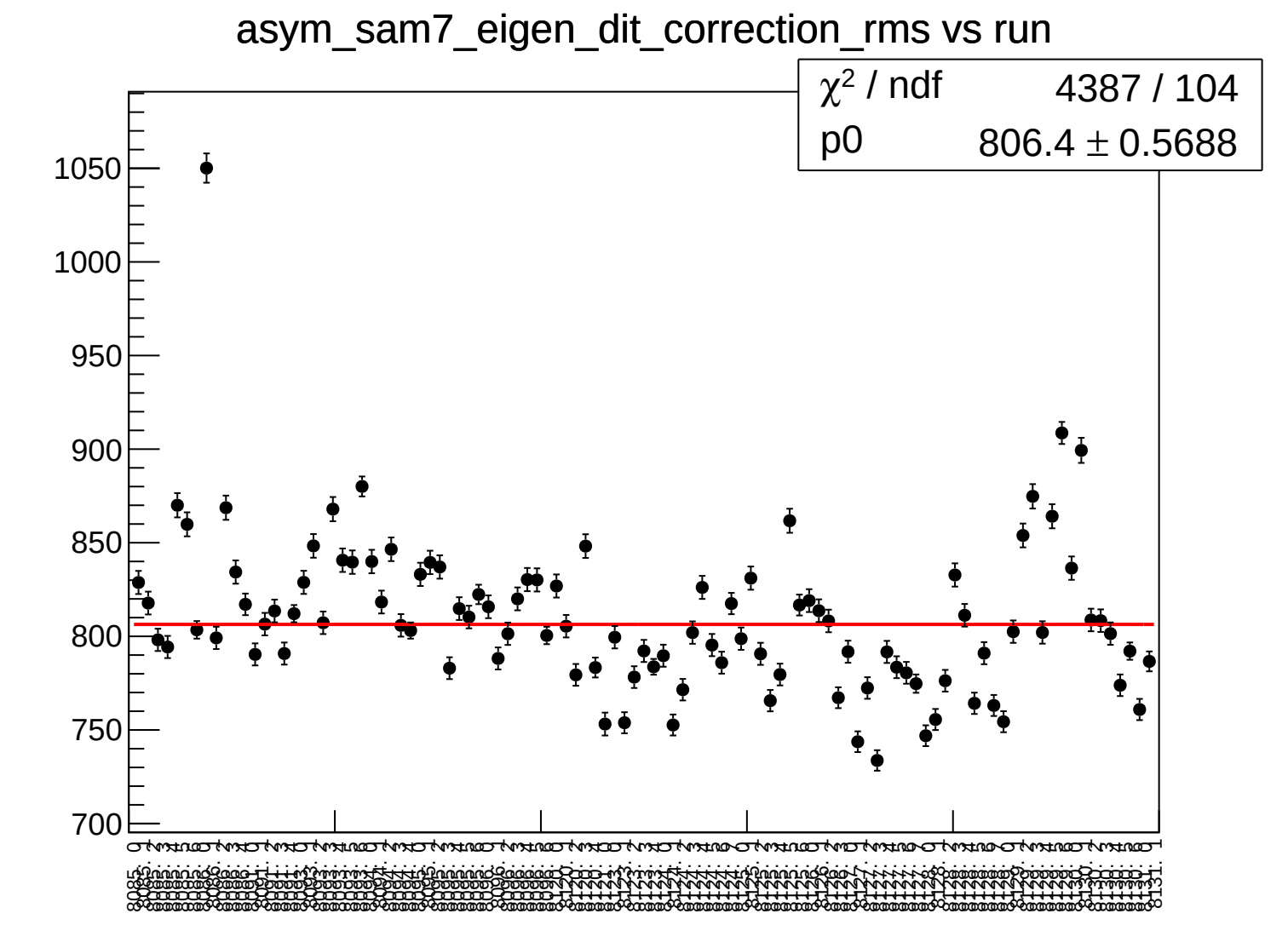

eigen_dit_asym_sam7_mean vs run
χ² / ndf 105.9 / 104
p0 −55.13 ± 80.77
pull
Entries 105
Mean −857.6
Std Dev 0

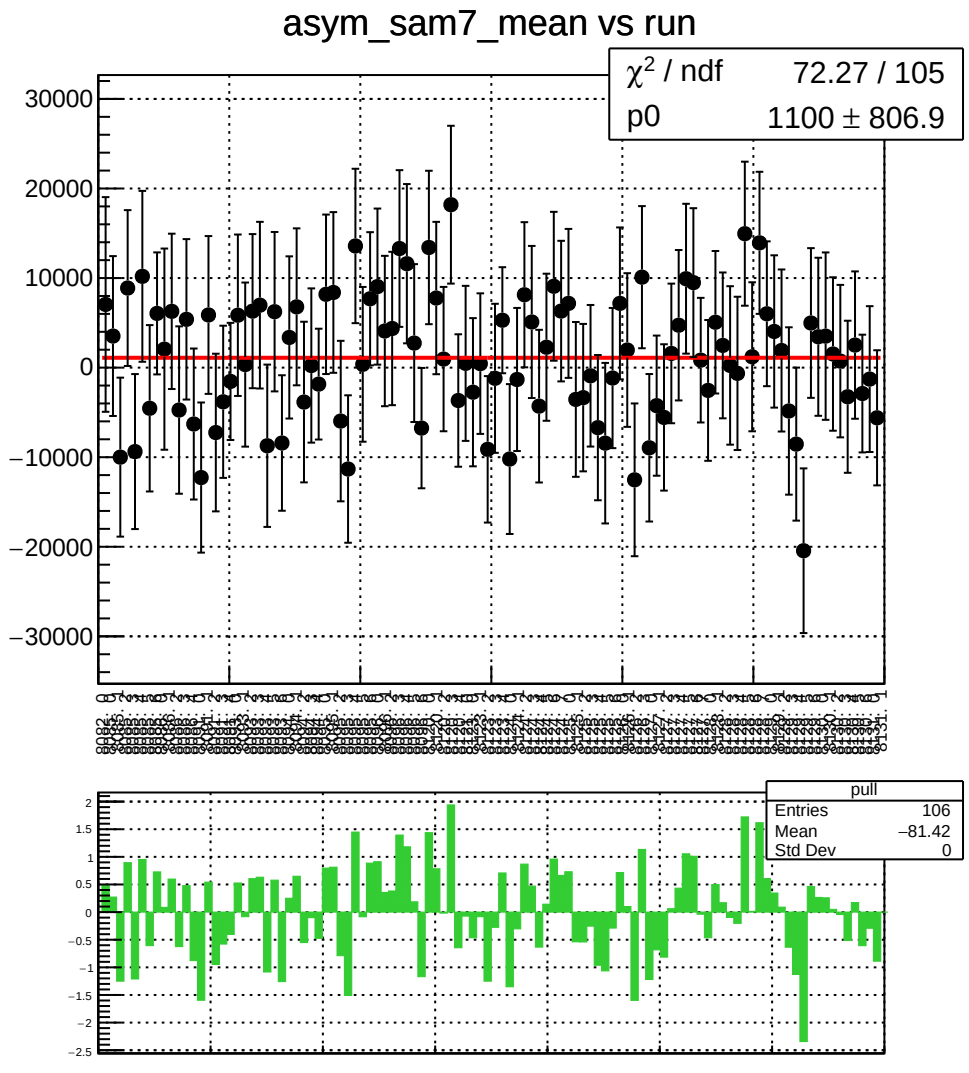

pull1D
Entries 105
Mean 0.005166
Std Dev 1.004

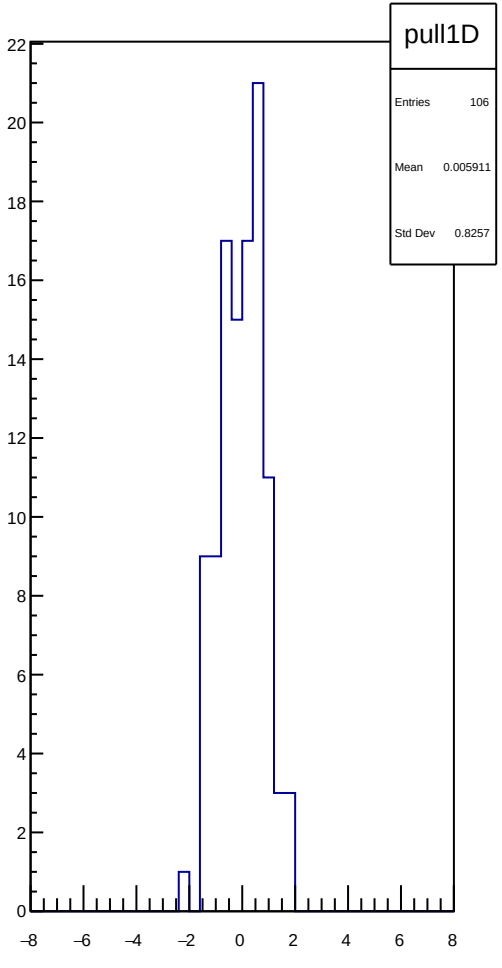

eigen_dit_asym_sam7_rms vs run
χ² / ndf 1.305e+04 / 104
p0 80.79 ± 0.05711
180
160
140
120
100
80

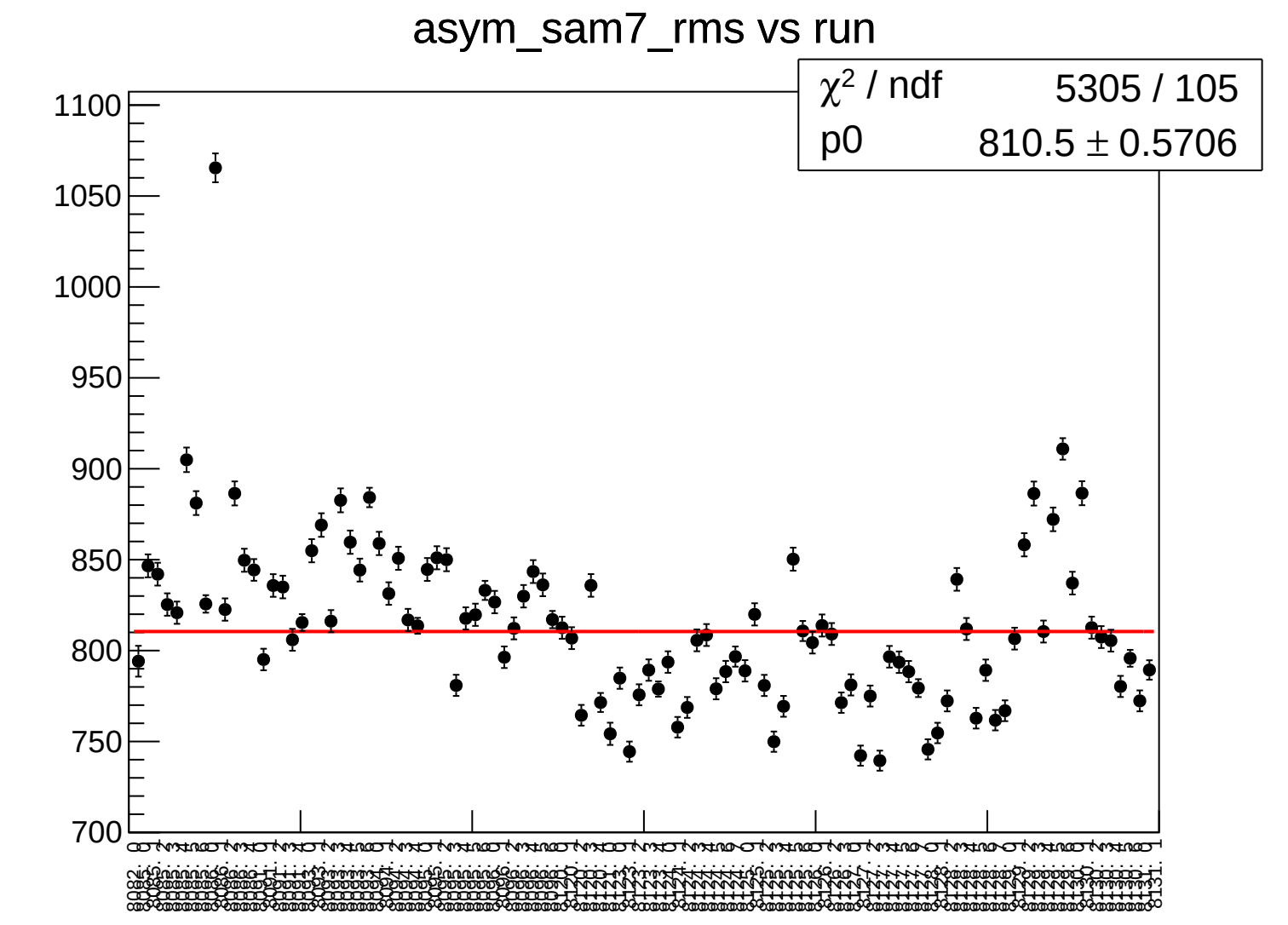

asym_sam7_eigen_dit_correction_mean vs run
χ² / ndf 71.65 / 104
p0 −1121 ± 804.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 105
Mean 43.83
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

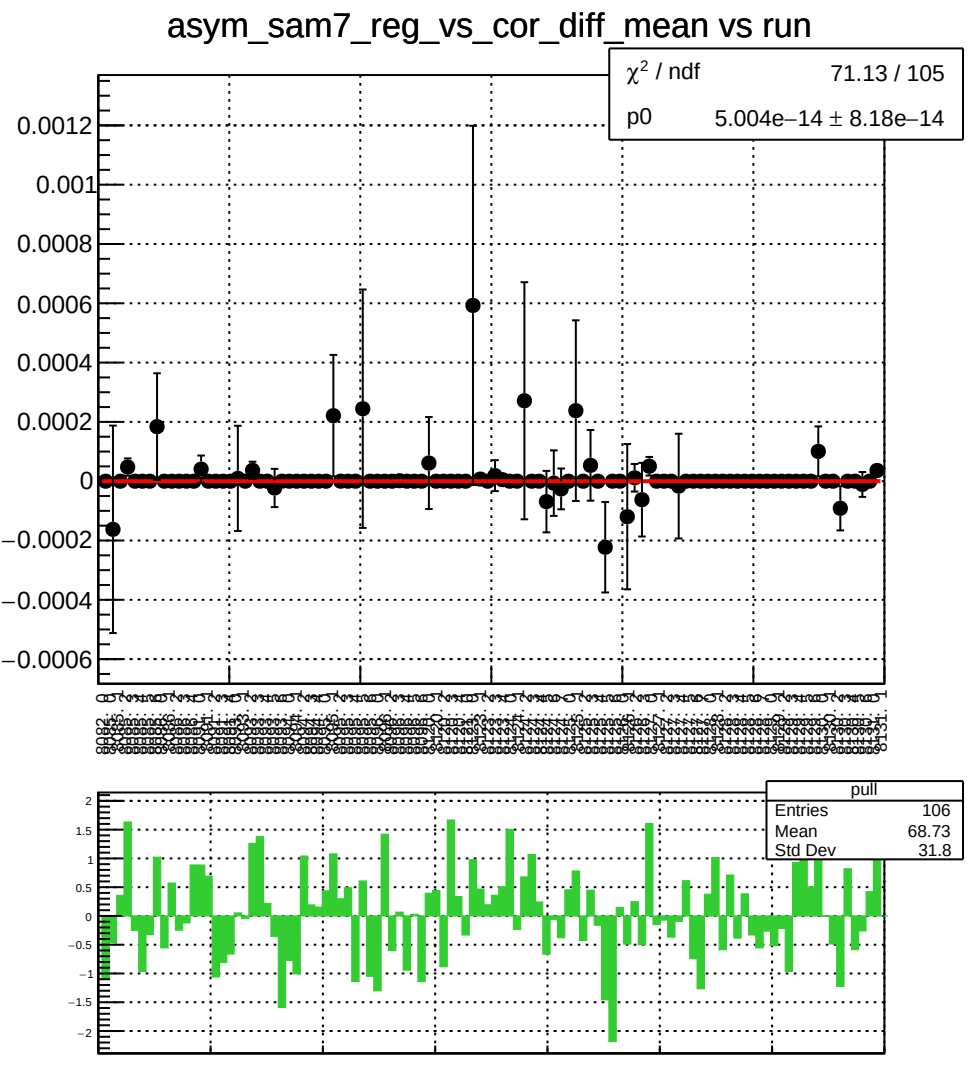

pull1D
Entries 105
Mean −0.004248
Std Dev 0.826
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

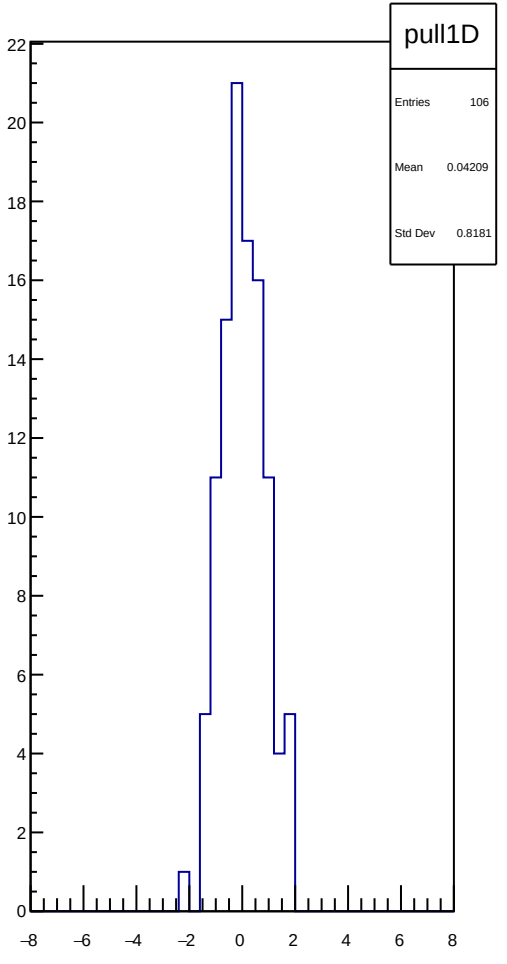

asym_sam7_eigen_dit_correction_rms vs run
χ² / ndf 4387 / 104
p0 806.4 ± 0.5688
1050
1000
950
900
850
800
750
700

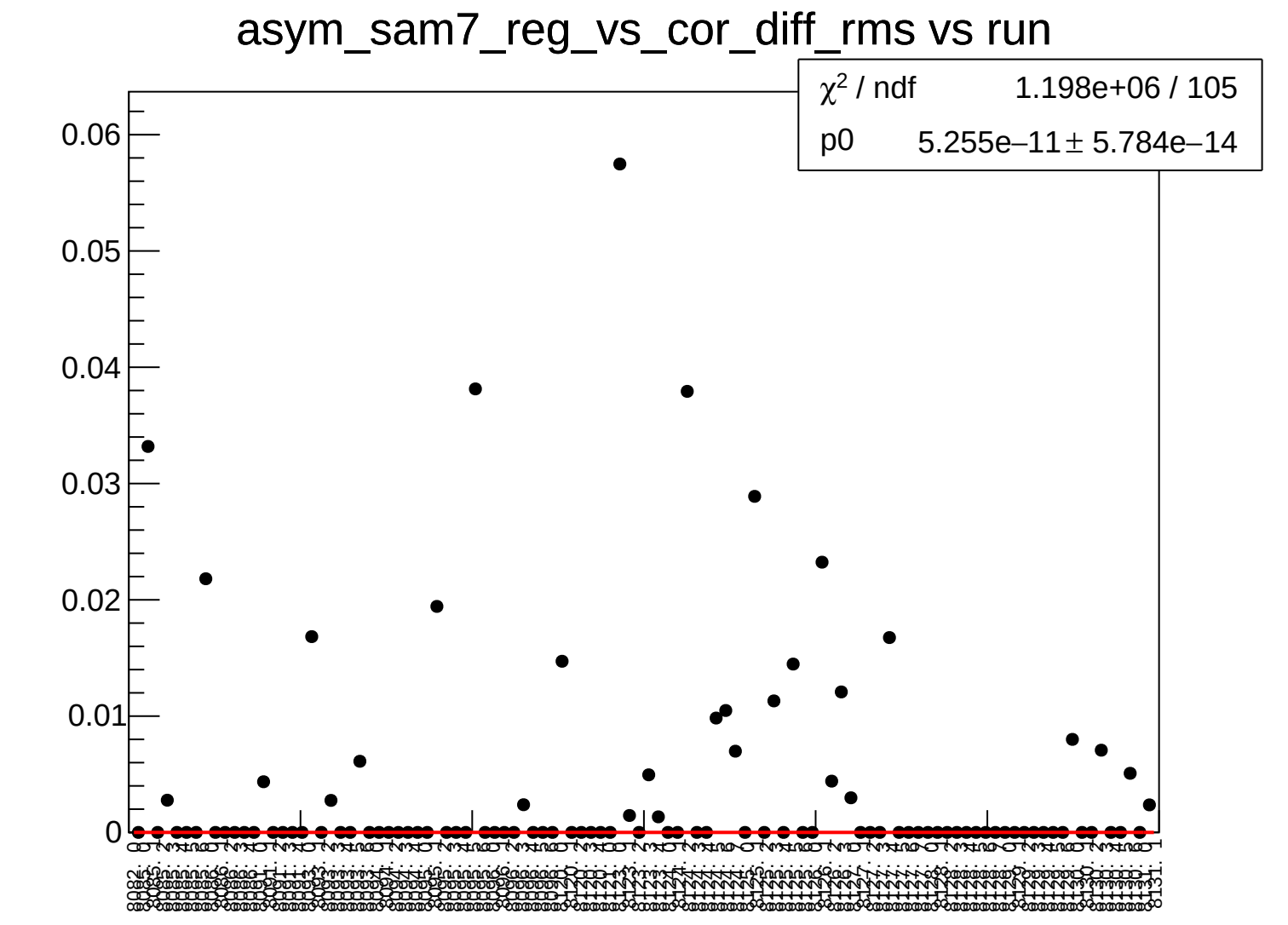

asym_sam7_mean vs run
χ² / ndf 72.27 / 105
p0 1100 ± 806.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 106
Mean −81.42
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

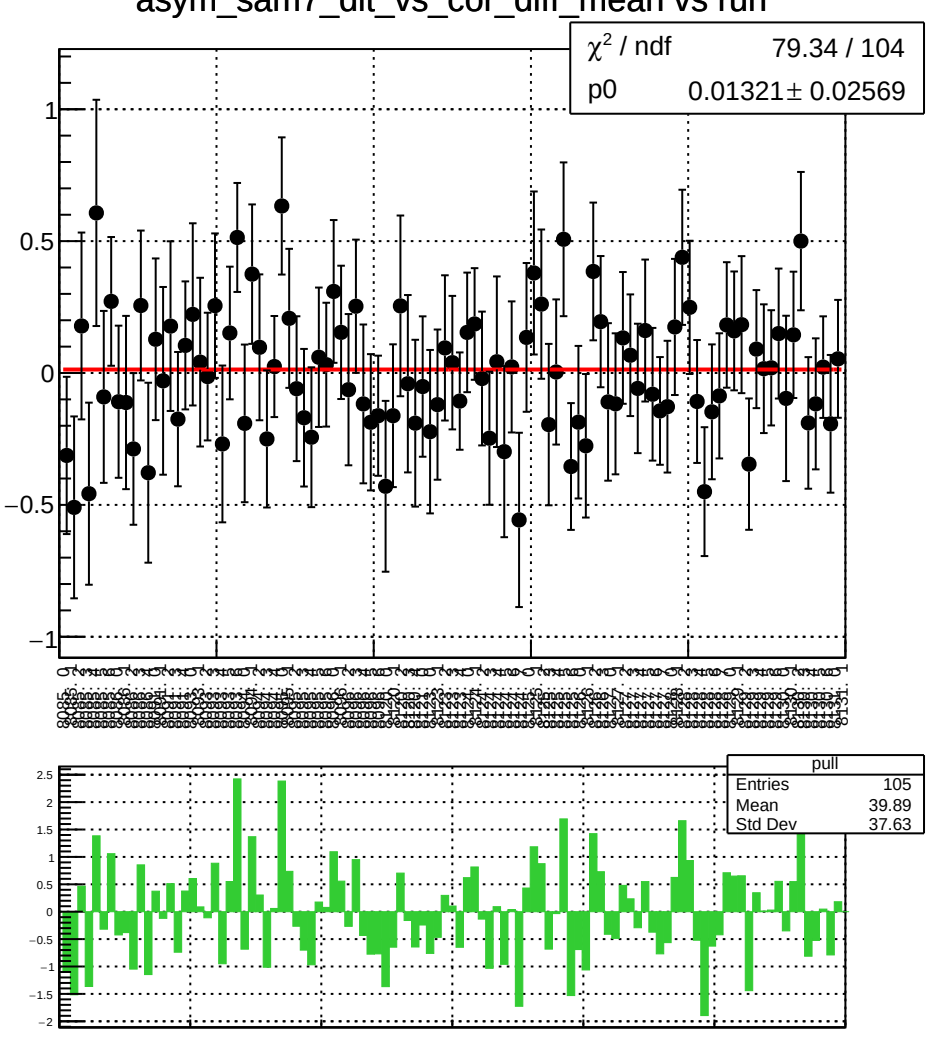

pull1D
Entries 106
Mean 0.005911
Std Dev 0.8257
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

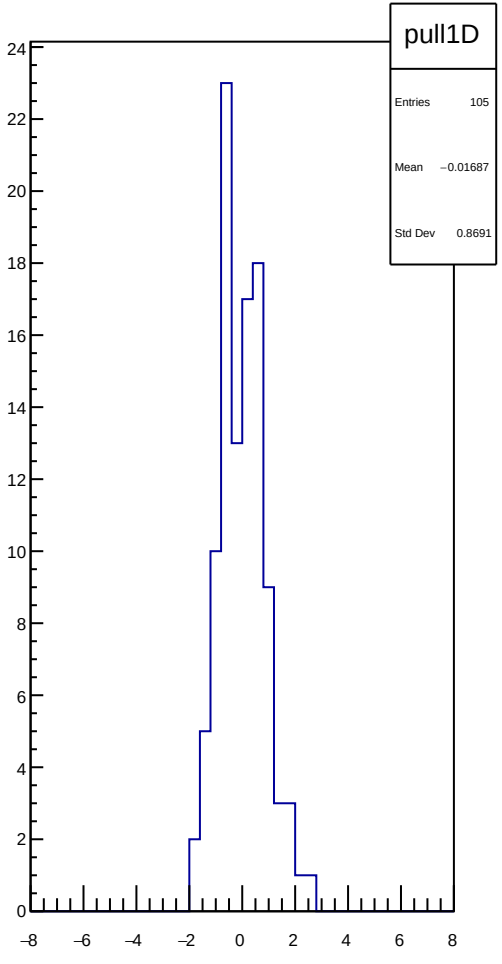

asym_sam7_rms vs run
χ² / ndf 5305 / 105
p0 810.5 ± 0.5706
1100
1050
1000
950
900
850
800
750
700

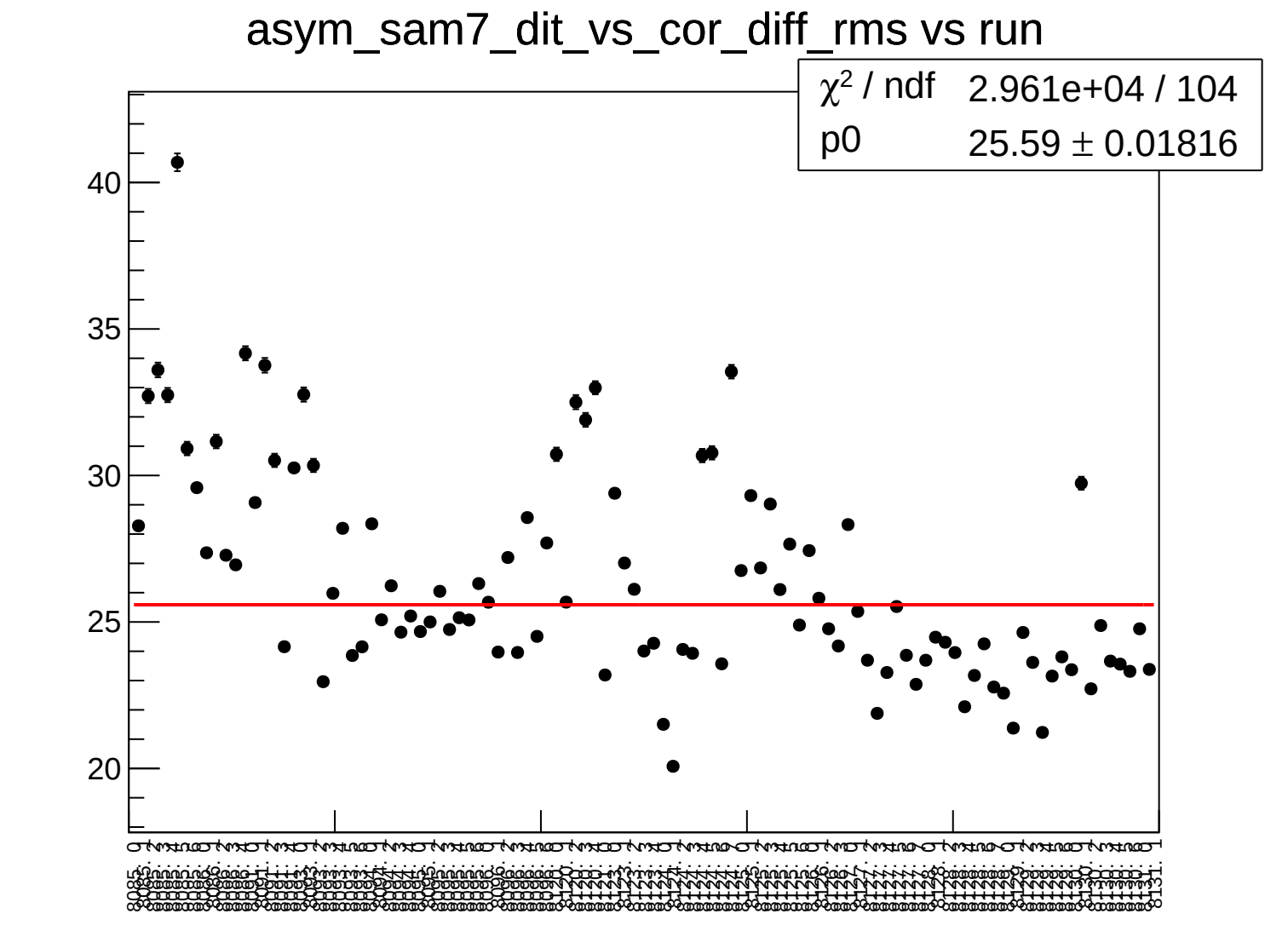

asym_sam7_reg_vs_cor_diff_mean vs run
χ² / ndf 71.13 / 105
p0 5.004e−14 ± 8.18e−14
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
pull
Entries 106
Mean 68.73
Std Dev 31.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

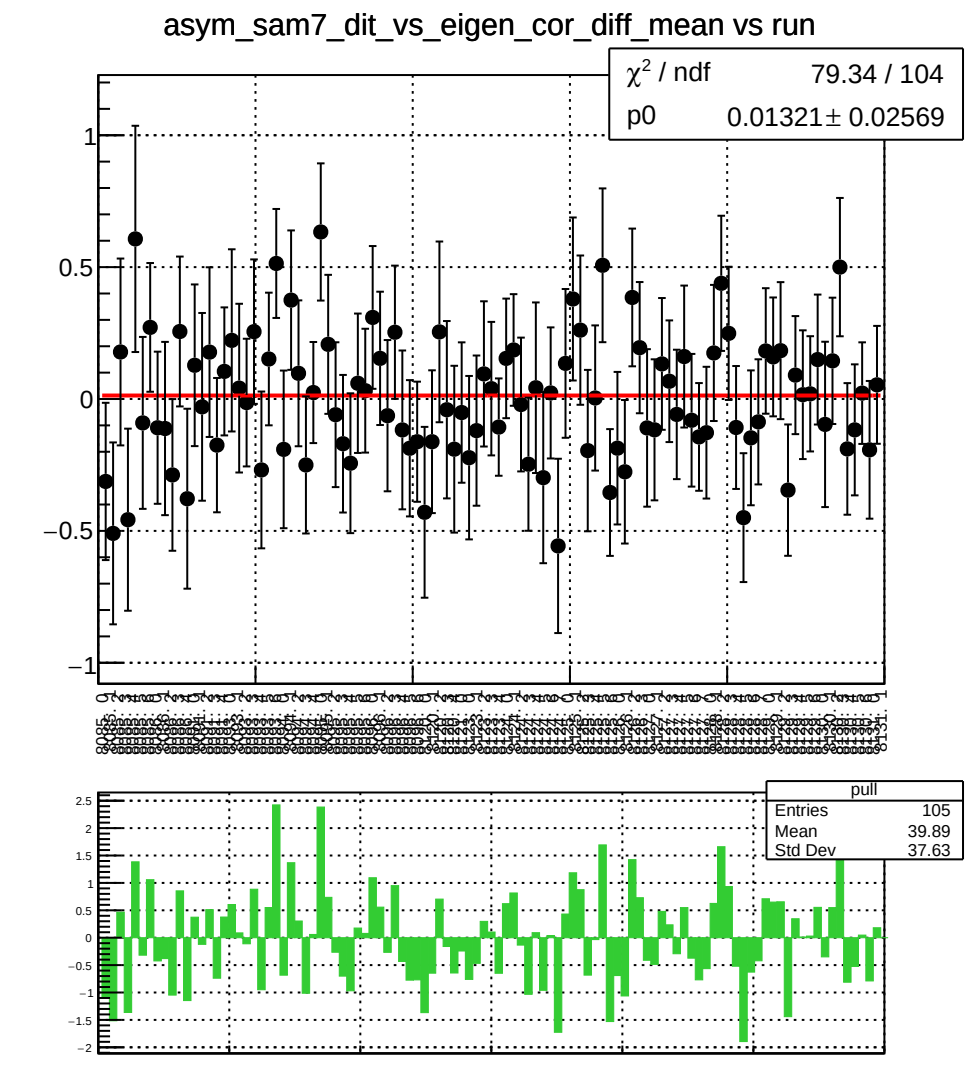

pull1D
Entries 106
Mean 0.04209
Std Dev 0.8181
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

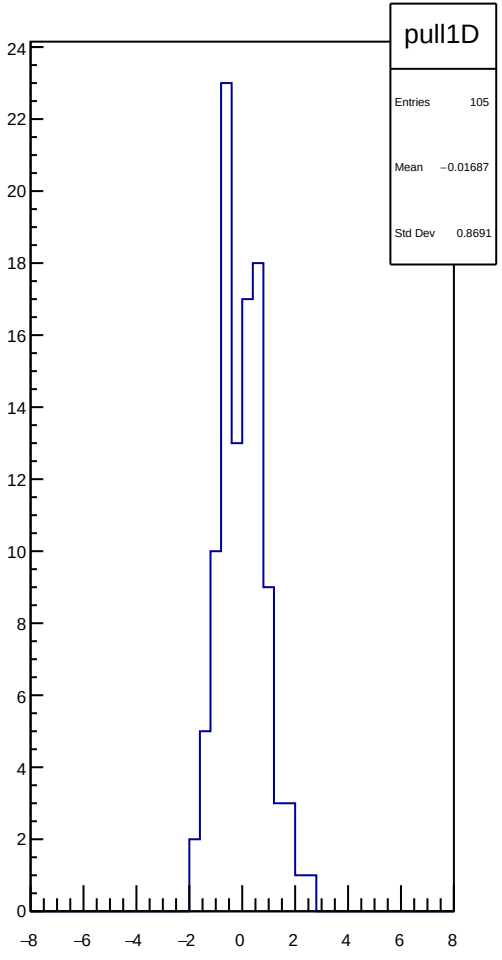

asym_sam7_reg_vs_cor_diff_rms vs run
χ² / ndf 1.198e+06 / 105
p0 5.255e−11 ± 5.784e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

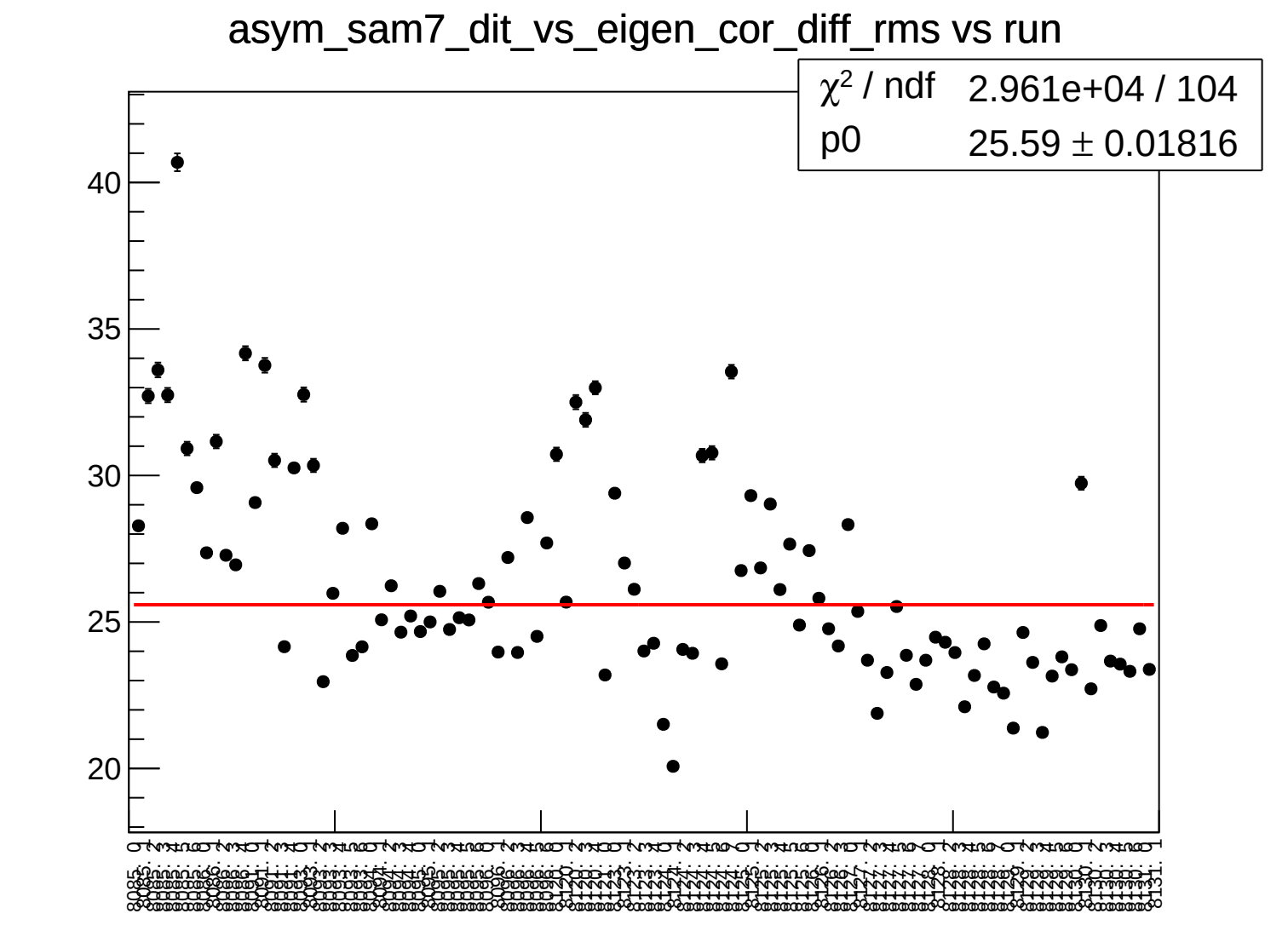

asym_sam7_dit_vs_cor_diff_mean vs run
$\chi^2$ / ndf 79.34 / 104
p0 0.01321 ± 0.02569
pull
Entries 105
Mean 39.89
Std Dev 37.63

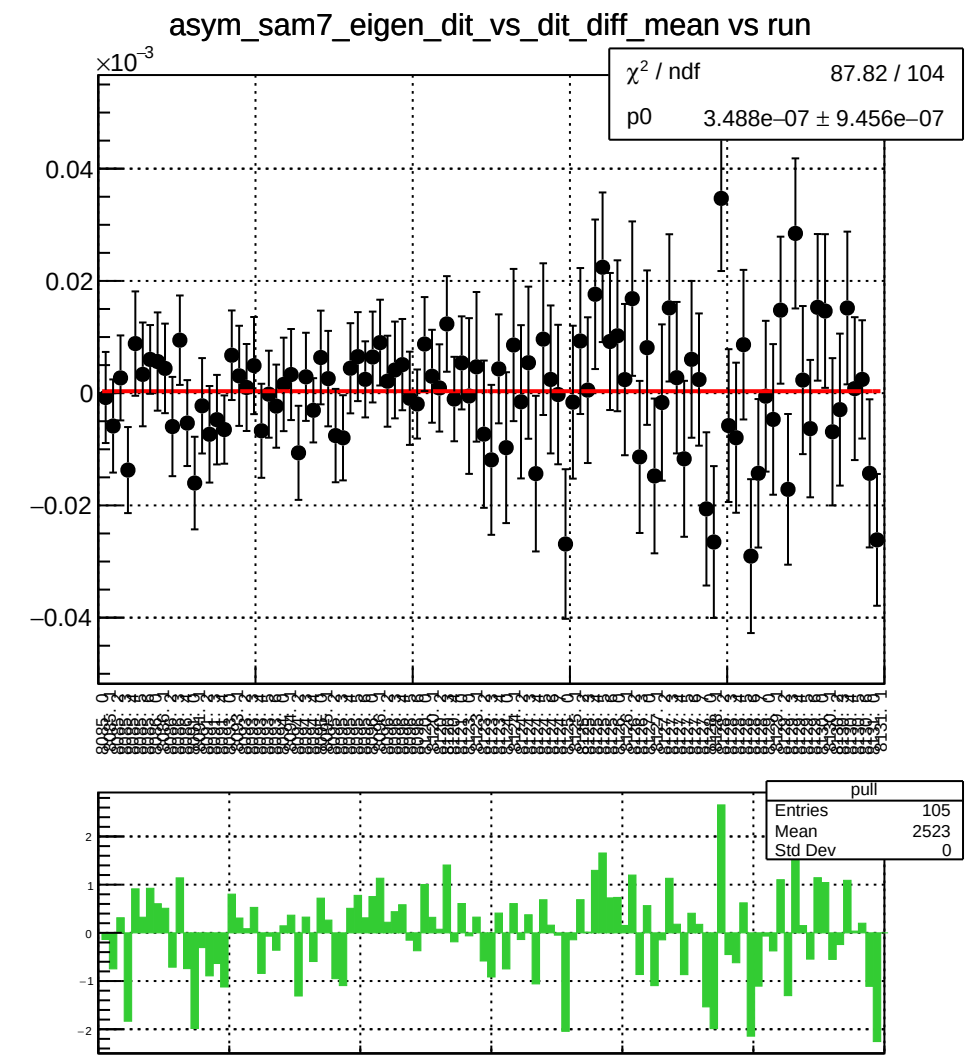

pull1D
Entries 105
Mean −0.01687
Std Dev 0.8691

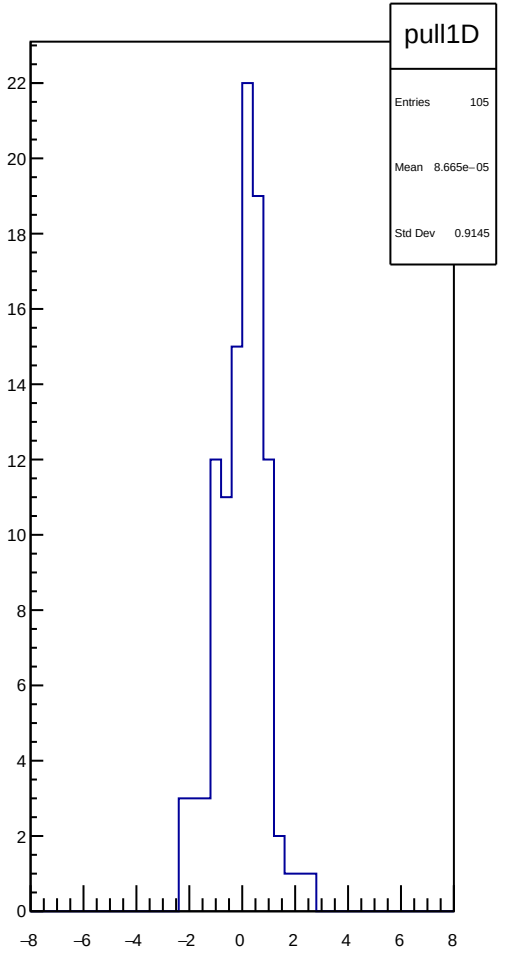

asym_sam7_dit_vs_cor_diff_rms vs run
χ² / ndf 2.961e+04 / 104
p0 25.59 ± 0.01816
40
35
30
25
20

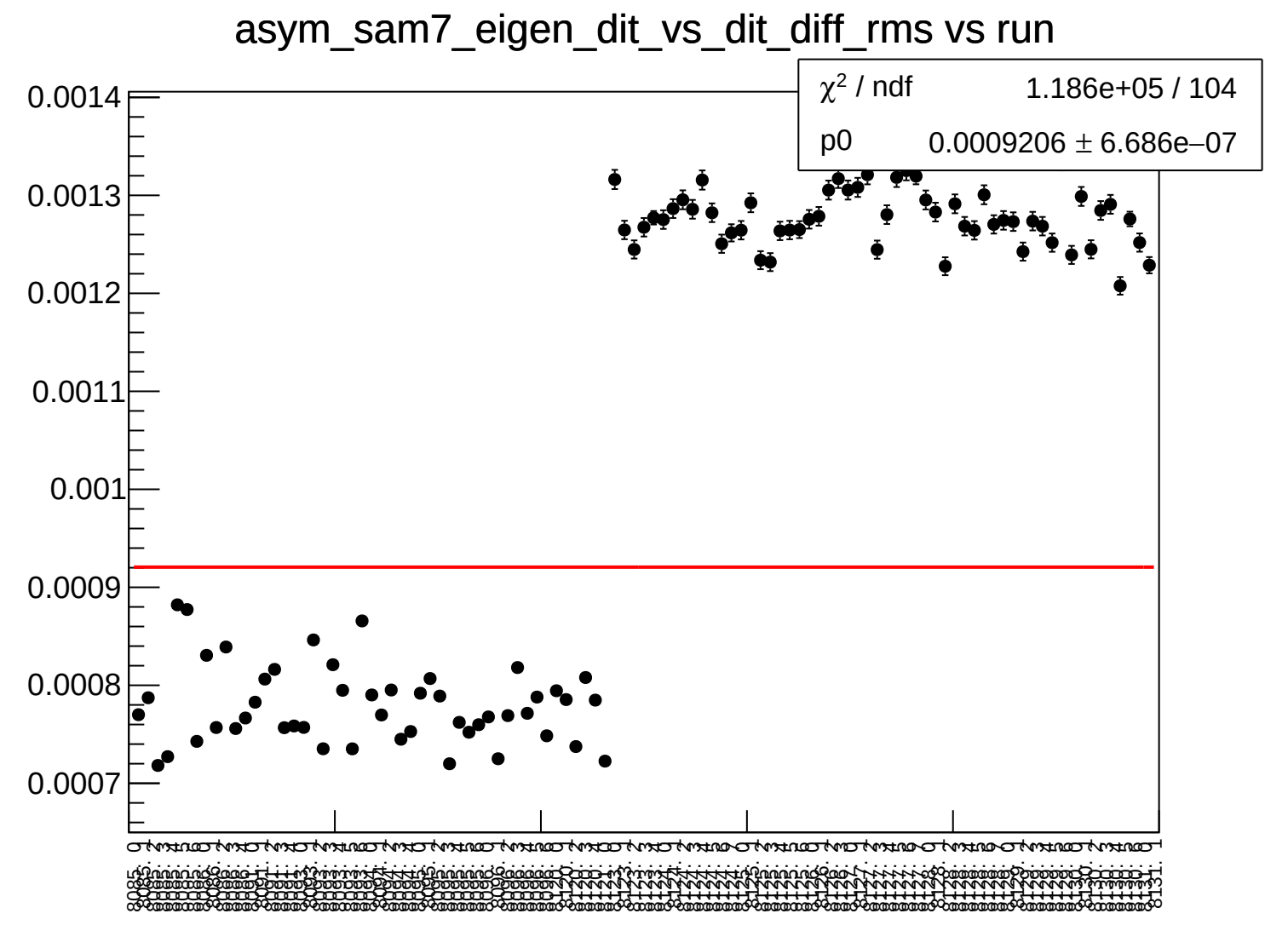

asym_sam7_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.34 / 104
p0 0.01321 ± 0.02569
pull
Entries 105
Mean 39.89
Std Dev 37.63

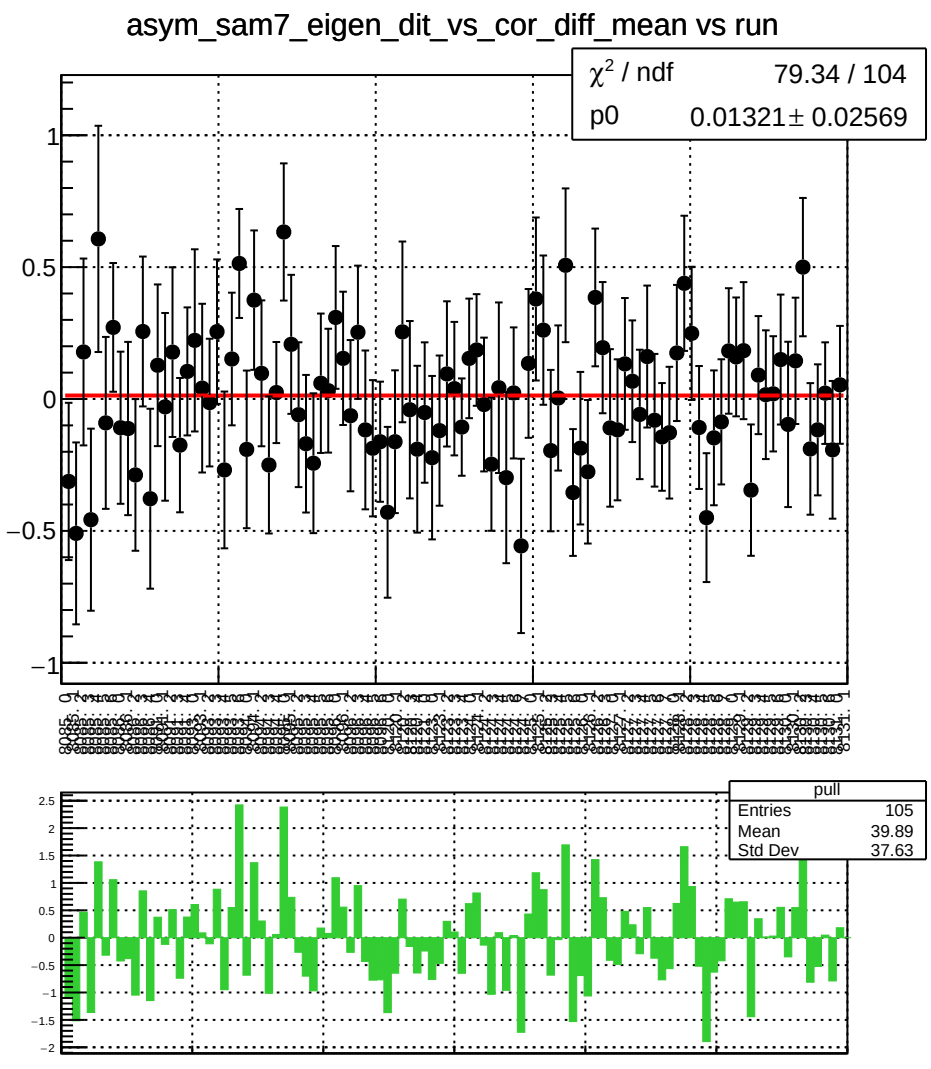

pull1D
Entries 105
Mean −0.01687
Std Dev 0.8691

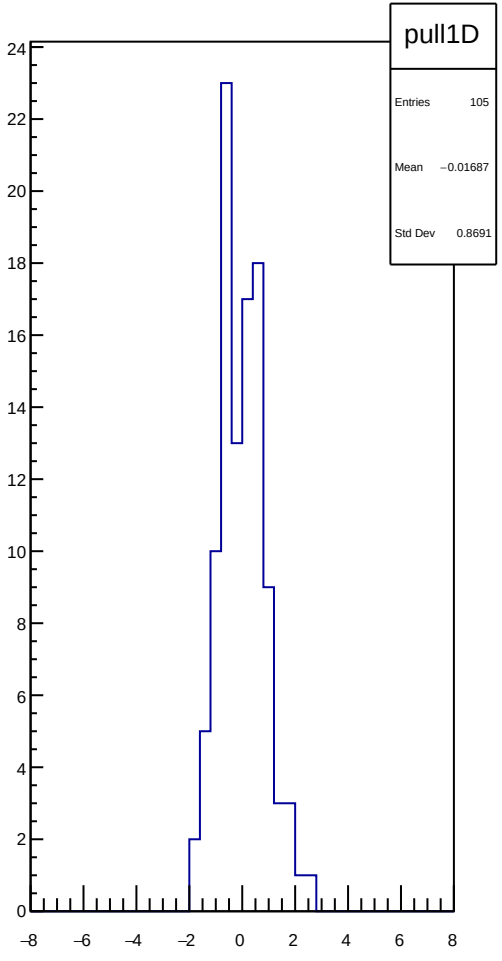

asym_sam7_dit_vs_eigen_cor_diff_rms vs run
$\chi^2$ / ndf 2.961e+04 / 104
p0 25.59 ± 0.01816
40
35
30
25
20

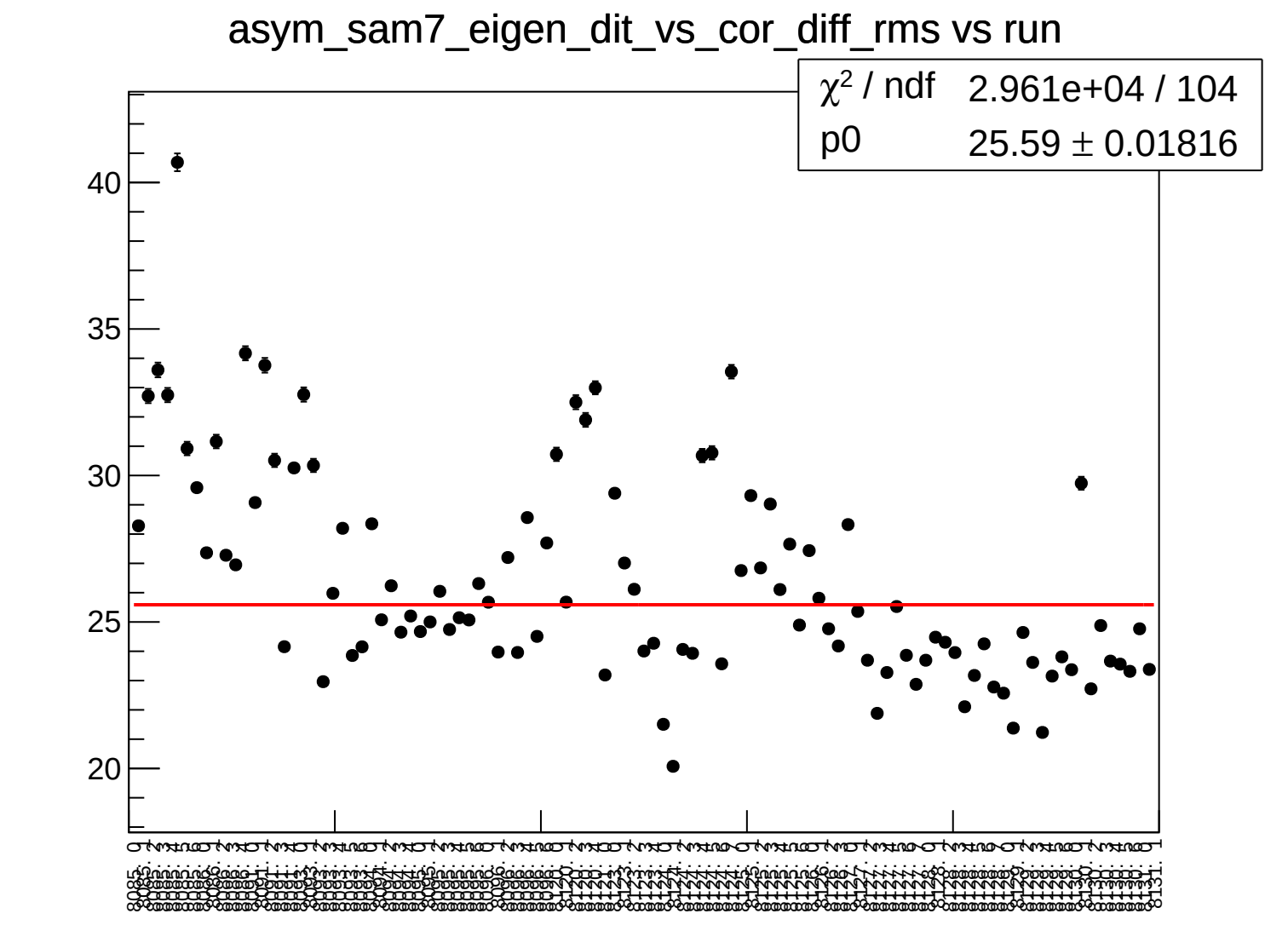

asym_sam7_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 87.82 / 104
p0 3.488e−07 ± 9.456e−07
0.04
0.02
0
−0.02
−0.04
pull
Entries 105
Mean 2523
Std Dev 0
2
1
0
−1
−2

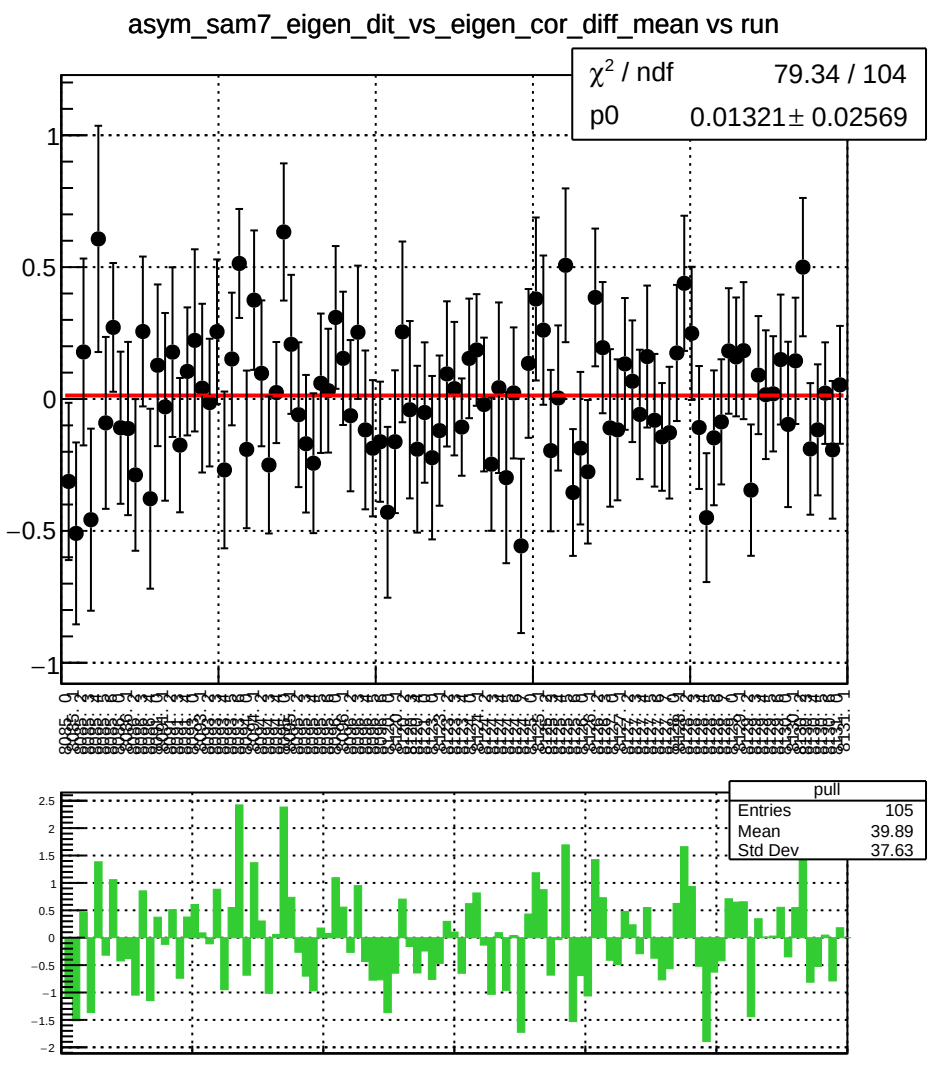

pull1D
Entries 105
Mean 8.665e−05
Std Dev 0.9145
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

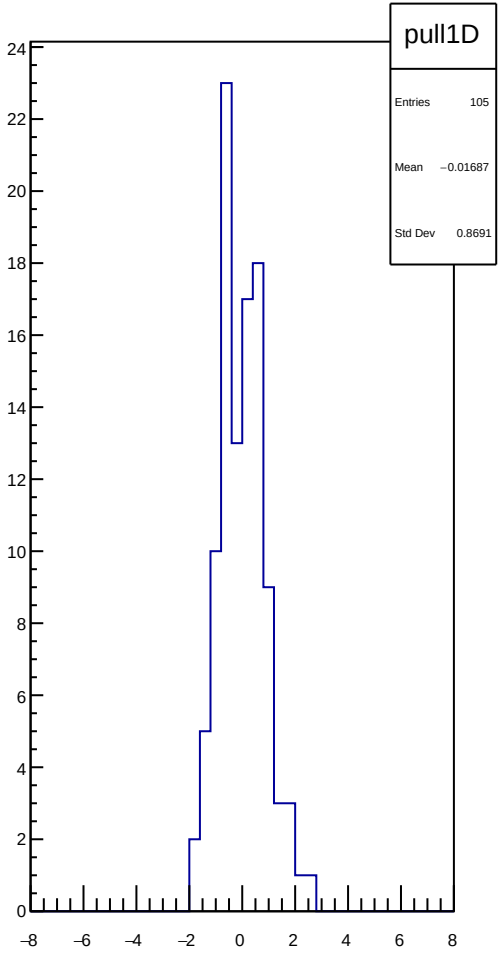

asym_sam7_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.186e+05 / 104
p0 0.0009206 ± 6.686e−07
0.0014
0.0013
0.0012
0.0011
0.001
0.0009
0.0008
0.0007

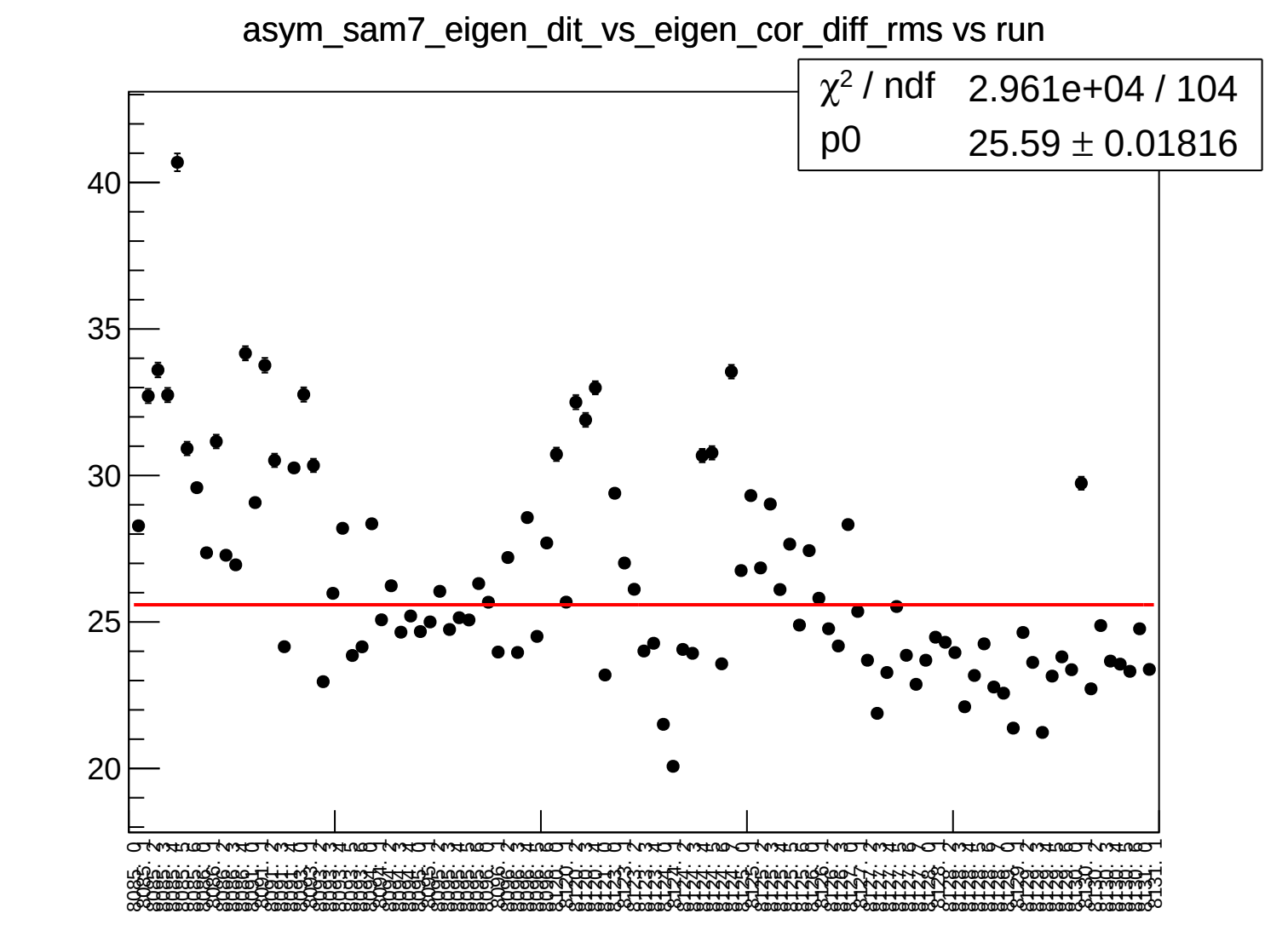

asym_sam7_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.34 / 104
p0 0.01321 ± 0.02569
pull
Entries 105
Mean 39.89
Std Dev 37.63

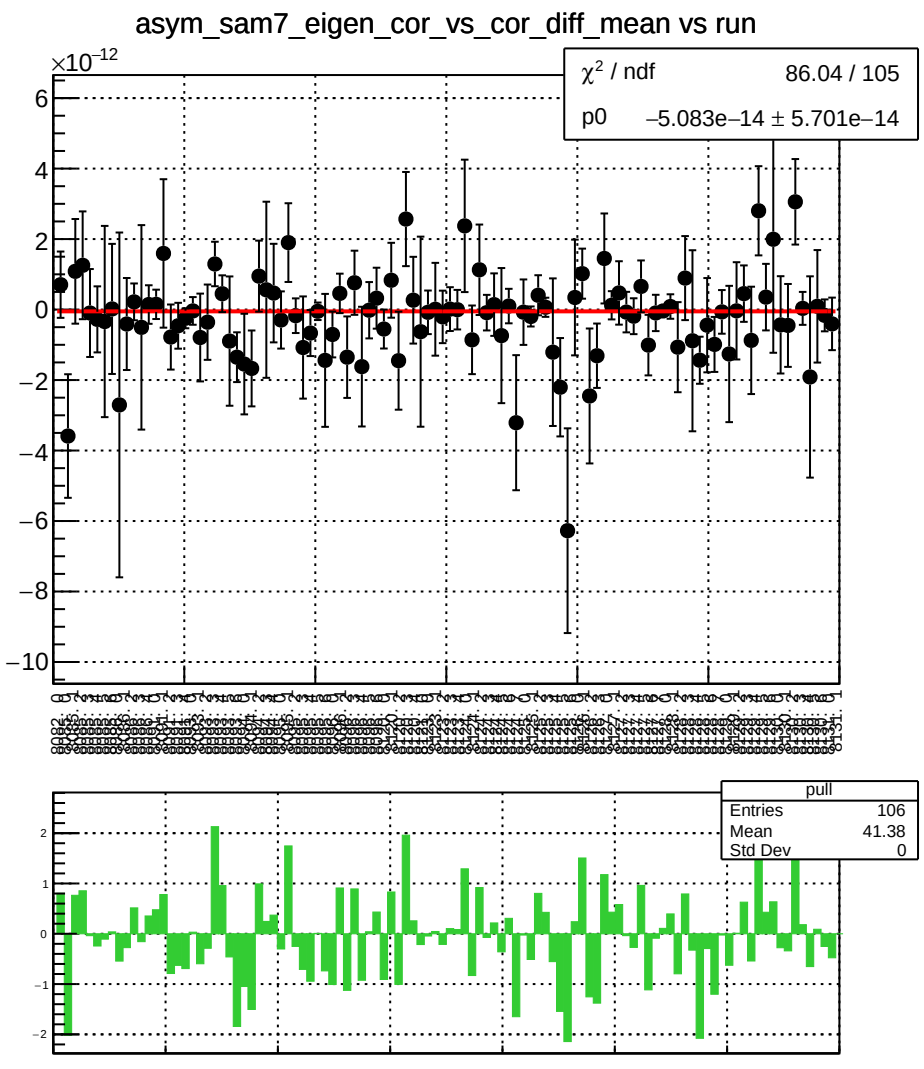

pull1D
Entries 105
Mean −0.01687
Std Dev 0.8691

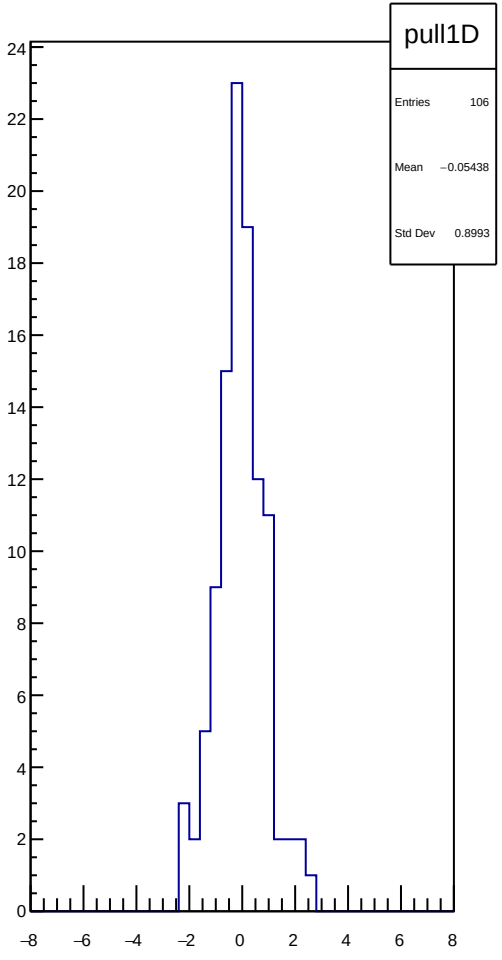

asym_sam7_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.961e+04 / 104
p0 25.59 ± 0.01816
40
35
30
25
20

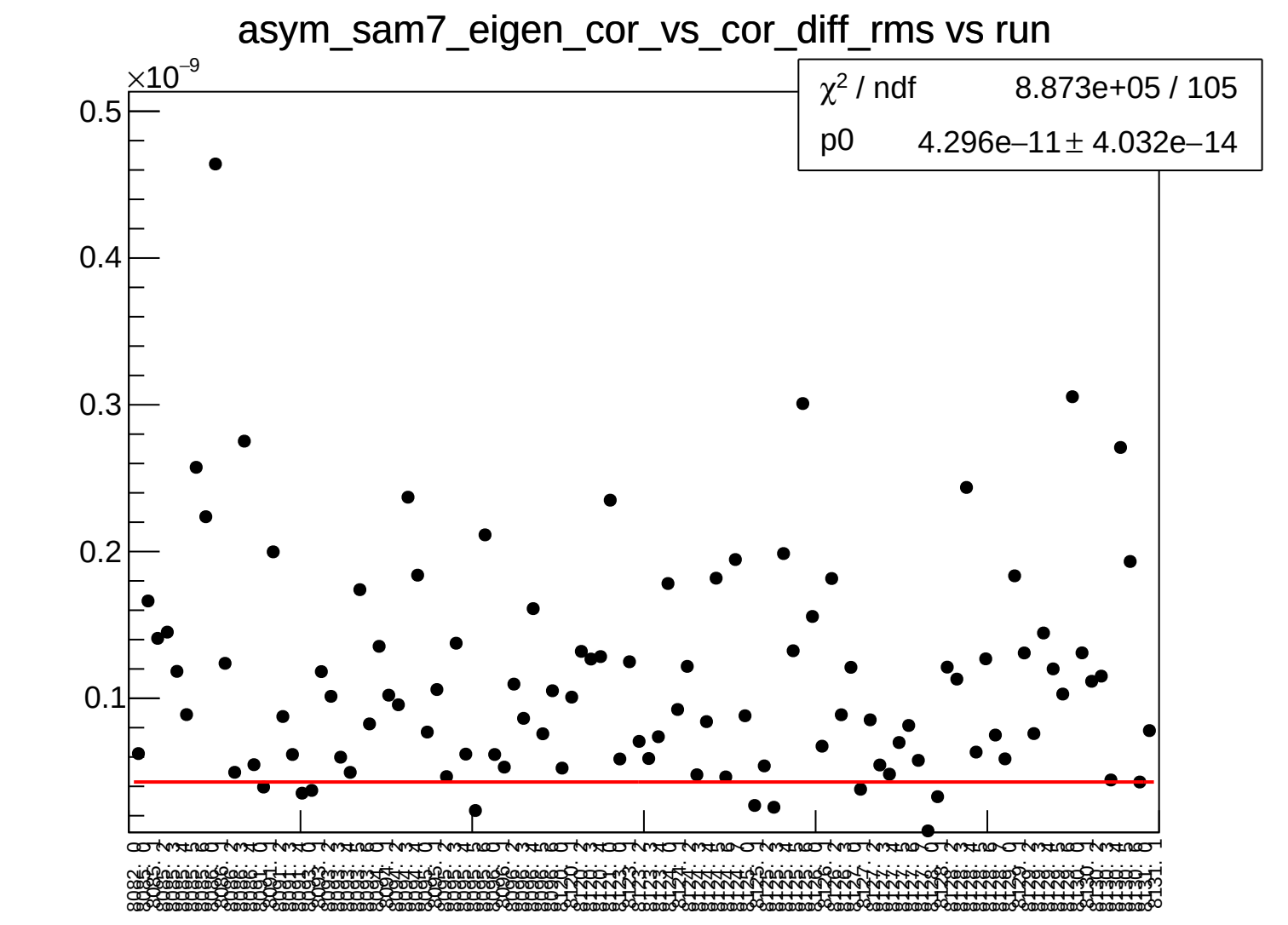

asym_sam7_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.34 / 104
p0 0.01321 ± 0.02569
pull
Entries 105
Mean 39.89
Std Dev 37.63

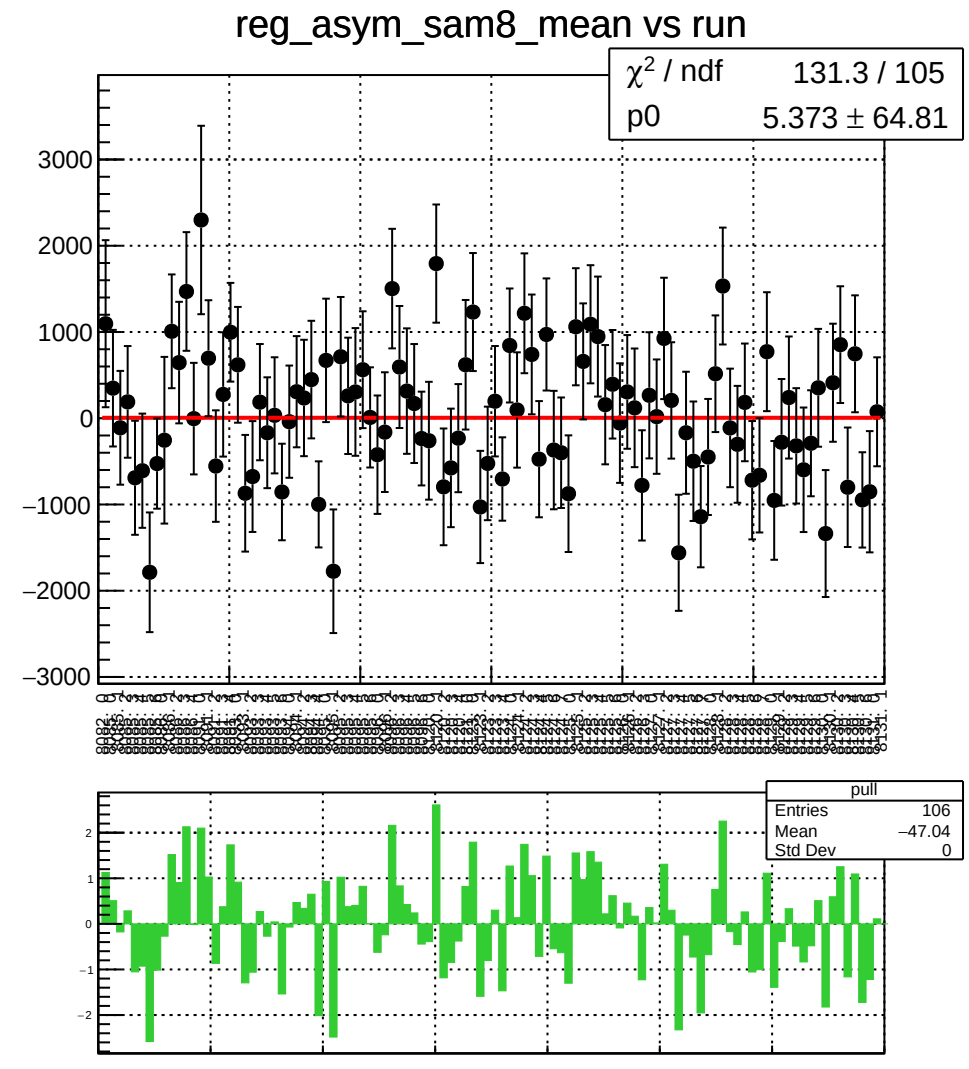

pull1D
Entries 105
Mean −0.01687
Std Dev 0.8691

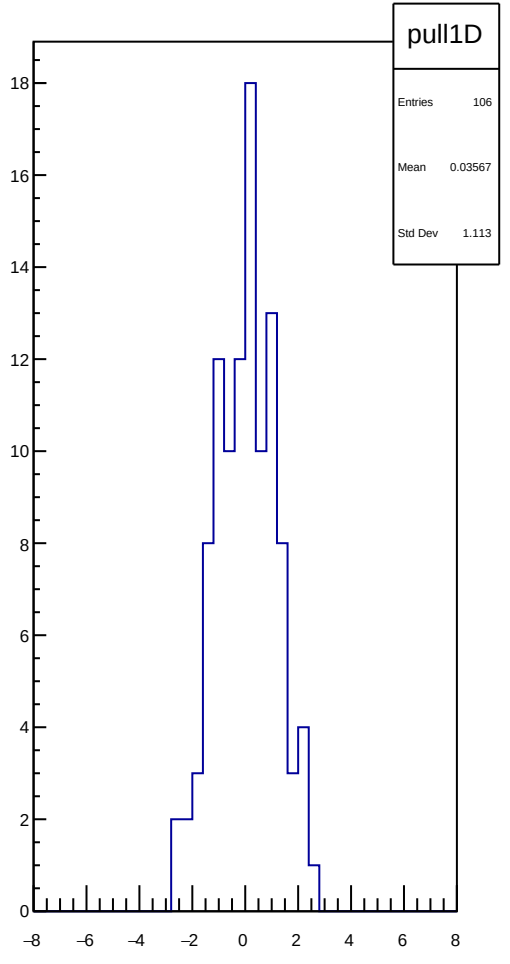

asym_sam7_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.961e+04 / 104
p0 25.59 ± 0.01816
40
35
30
25
20

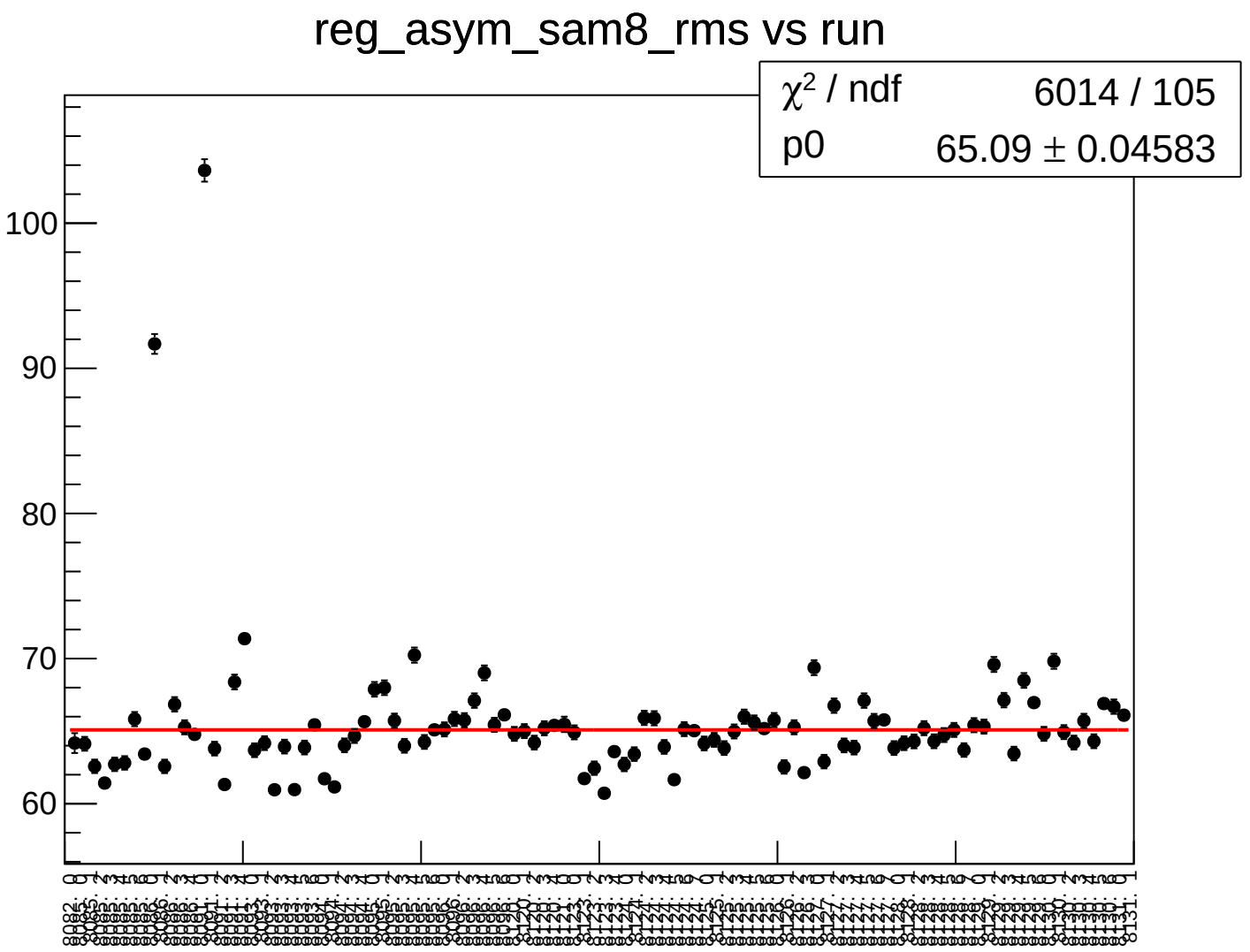

asym_sam7_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.04 / 105
p0 −5.083e−14 ± 5.701e−14
pull
Entries 106
Mean 41.38
Std Dev 0

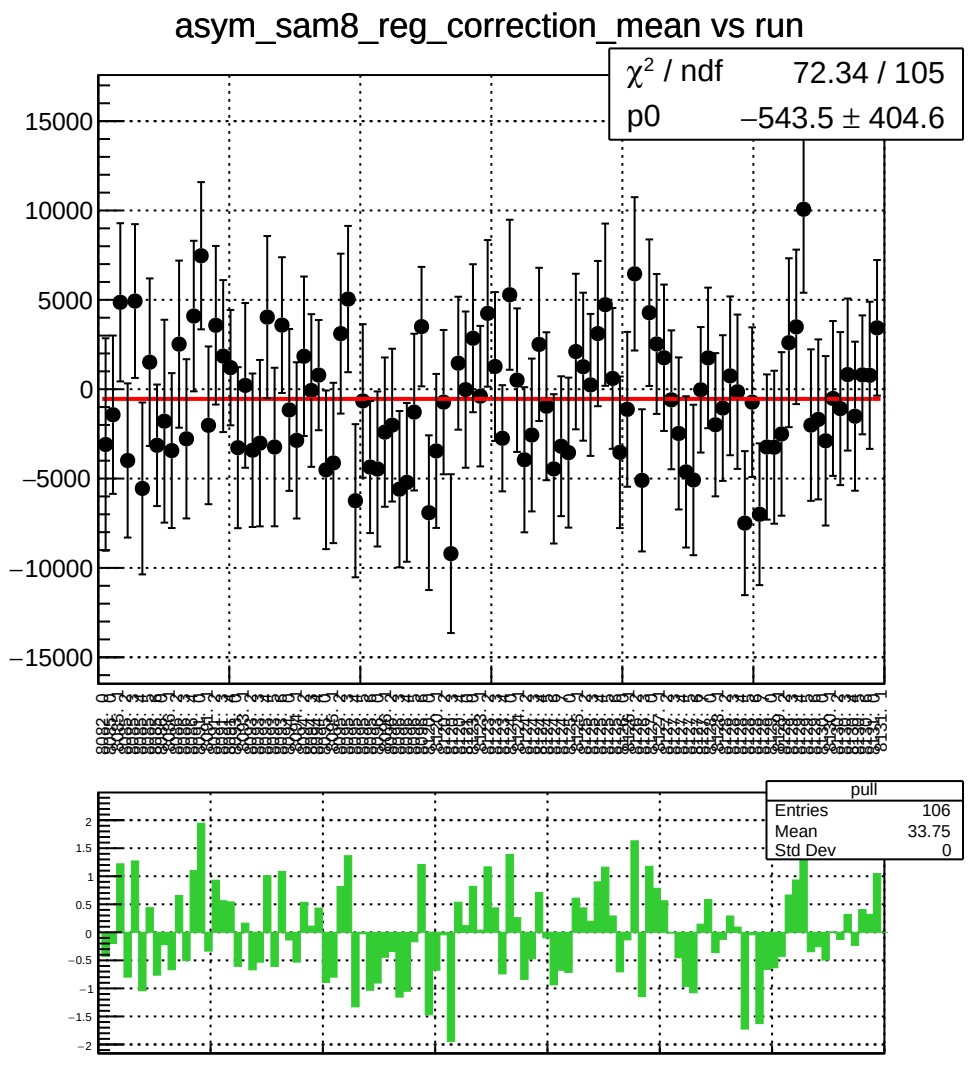

pull1D
Entries 106
Mean −0.05438
Std Dev 0.8993

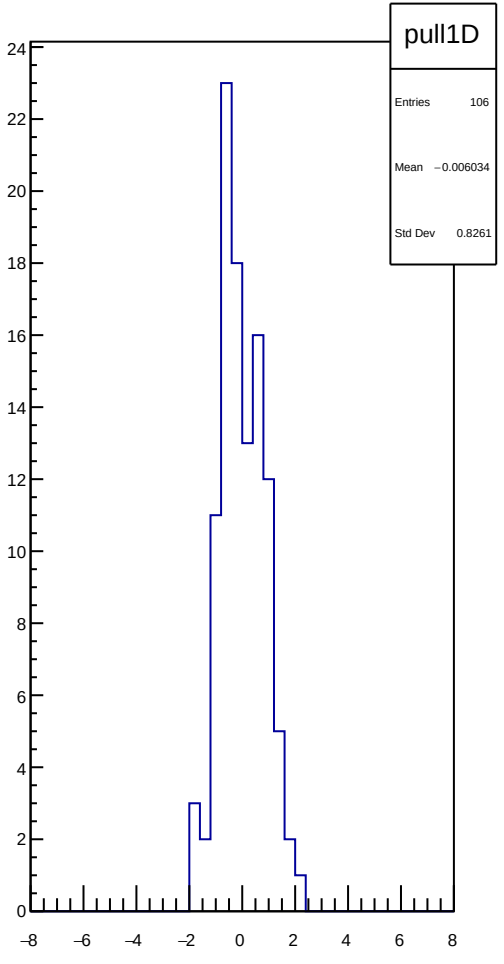

asym_sam7_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.5
0.4
0.3
0.2
0.1
χ² / ndf 8.873e+05 / 105
p0 4.296e−11 ± 4.032e−14

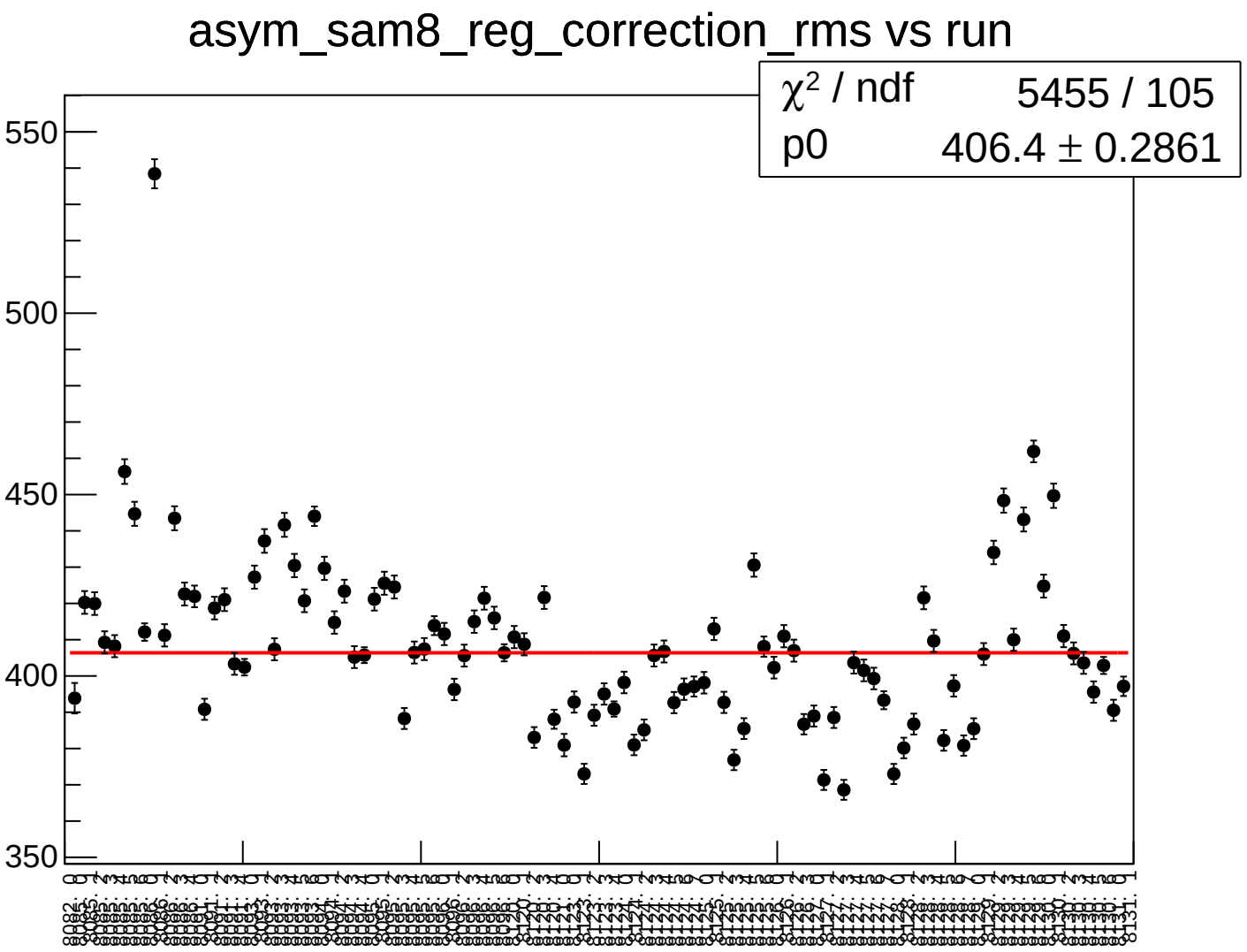

reg_asym_sam8_mean vs run
χ² / ndf 131.3 / 105
p0 5.373 ± 64.81
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 106
Mean −47.04
Std Dev 0
2
1
0
−1
−2

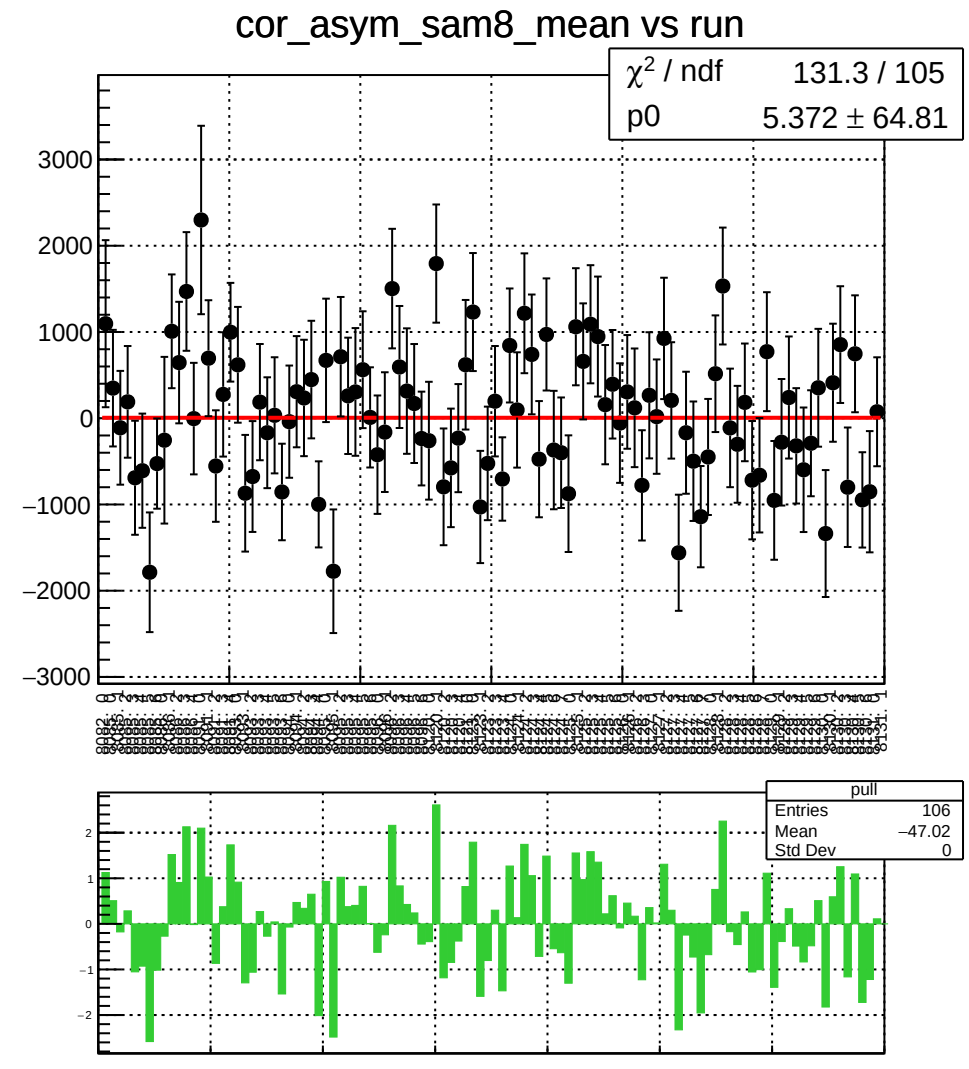

pull1D
Entries 106
Mean 0.03567
Std Dev 1.113
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

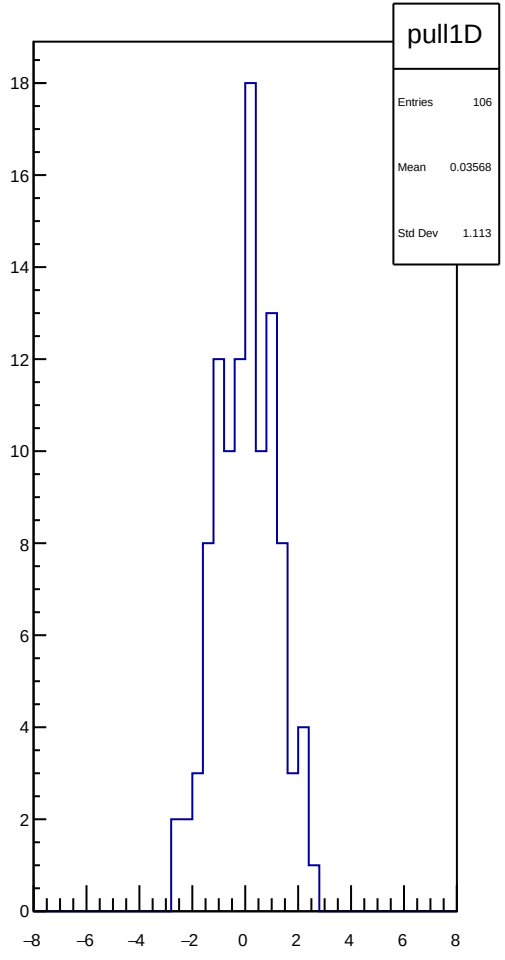

reg_asym_sam8_rms vs run
χ² / ndf 6014 / 105
p0 65.09 ± 0.04583
100
90
80
70
60

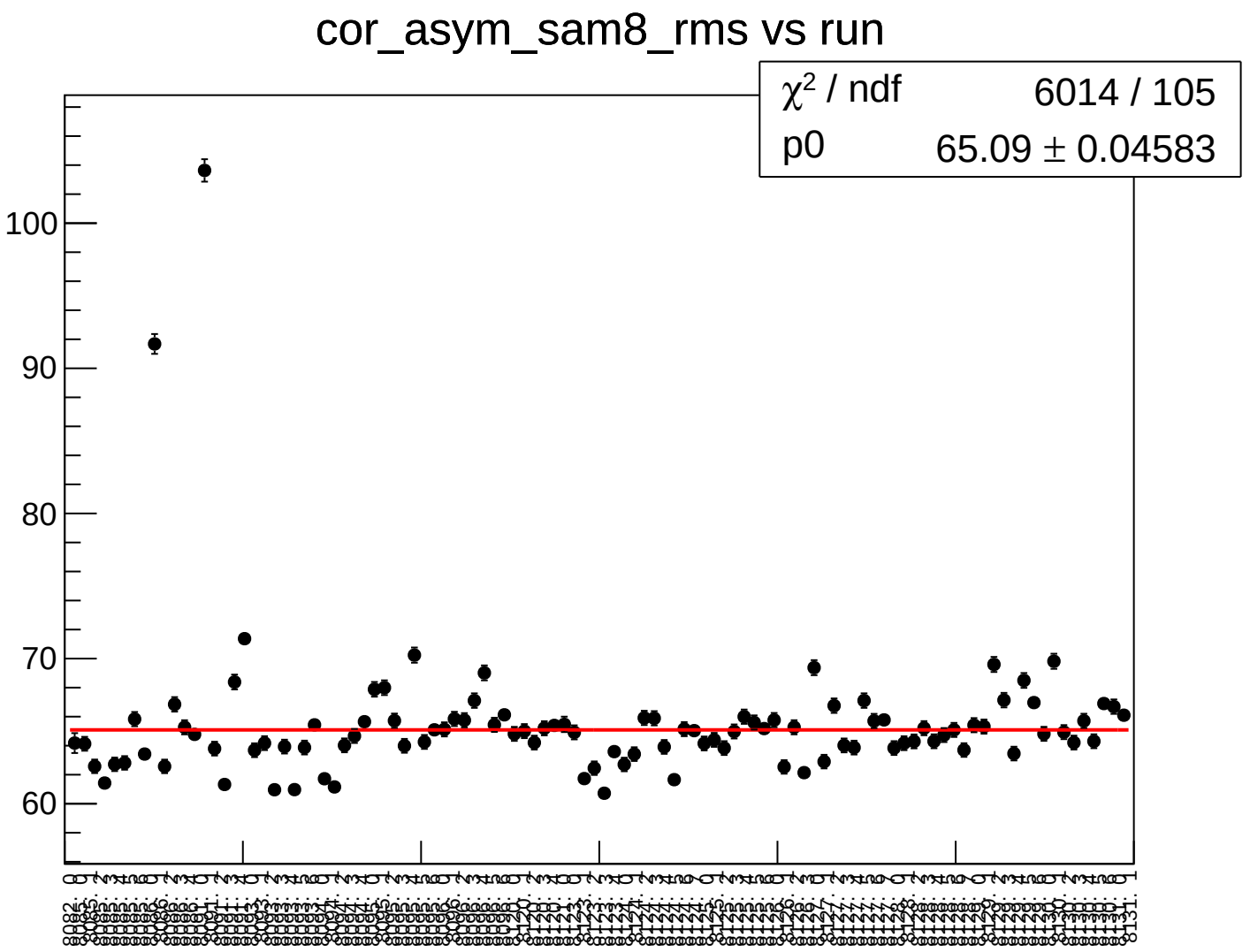

asym_sam8_reg_correction_mean vs run
χ² / ndf 72.34 / 105
p0 −543.5 ± 404.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 106
Mean 33.75
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

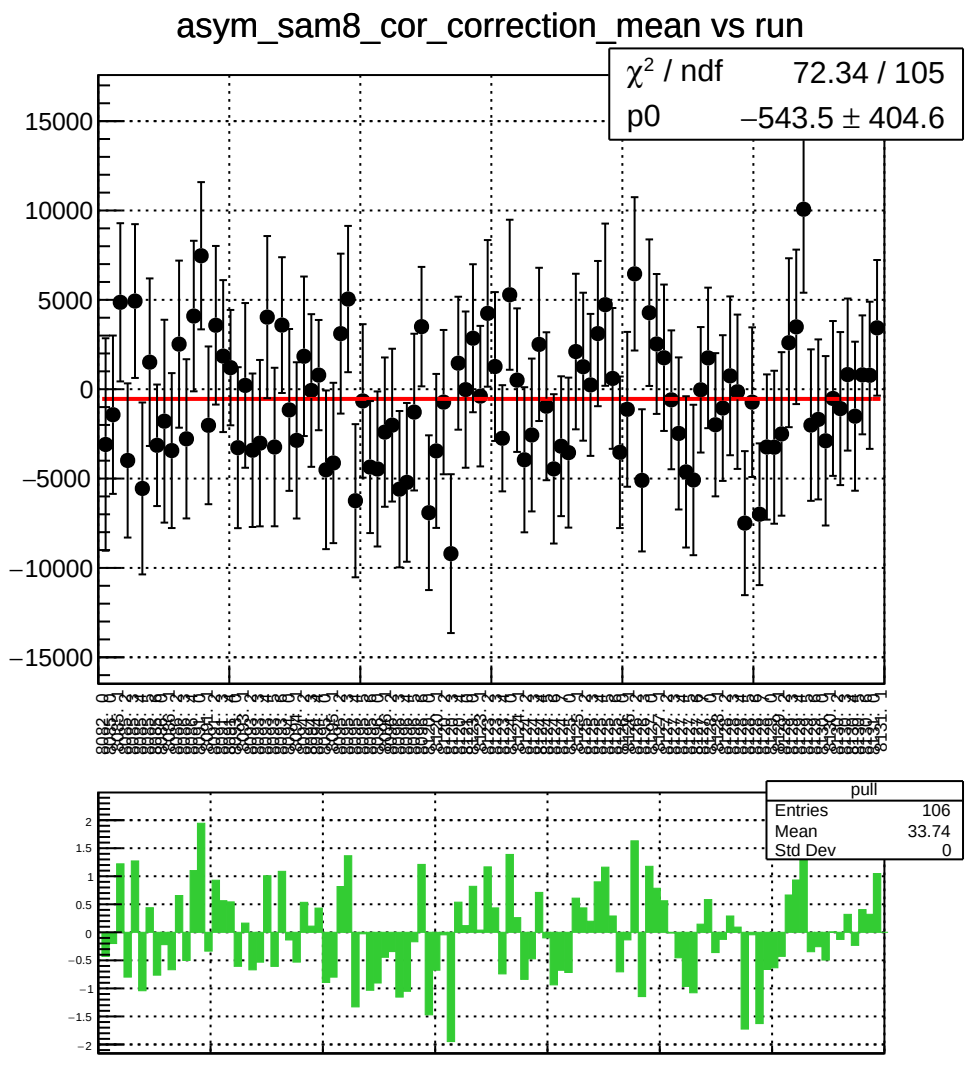

pull1D
Entries 106
Mean −0.006034
Std Dev 0.8261
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

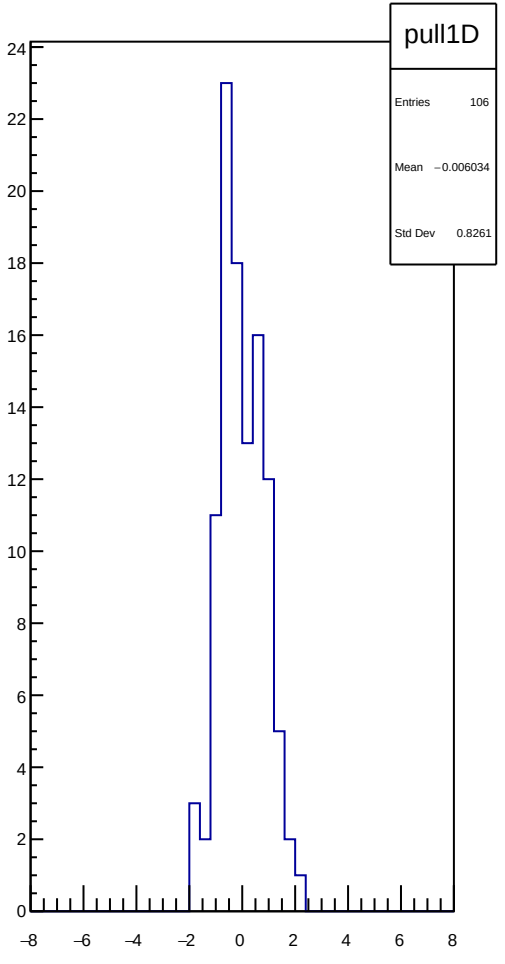

asym_sam8_reg_correction_rms vs run
χ² / ndf 5455 / 105
p0 406.4 ± 0.2861
550
500
450
400
350

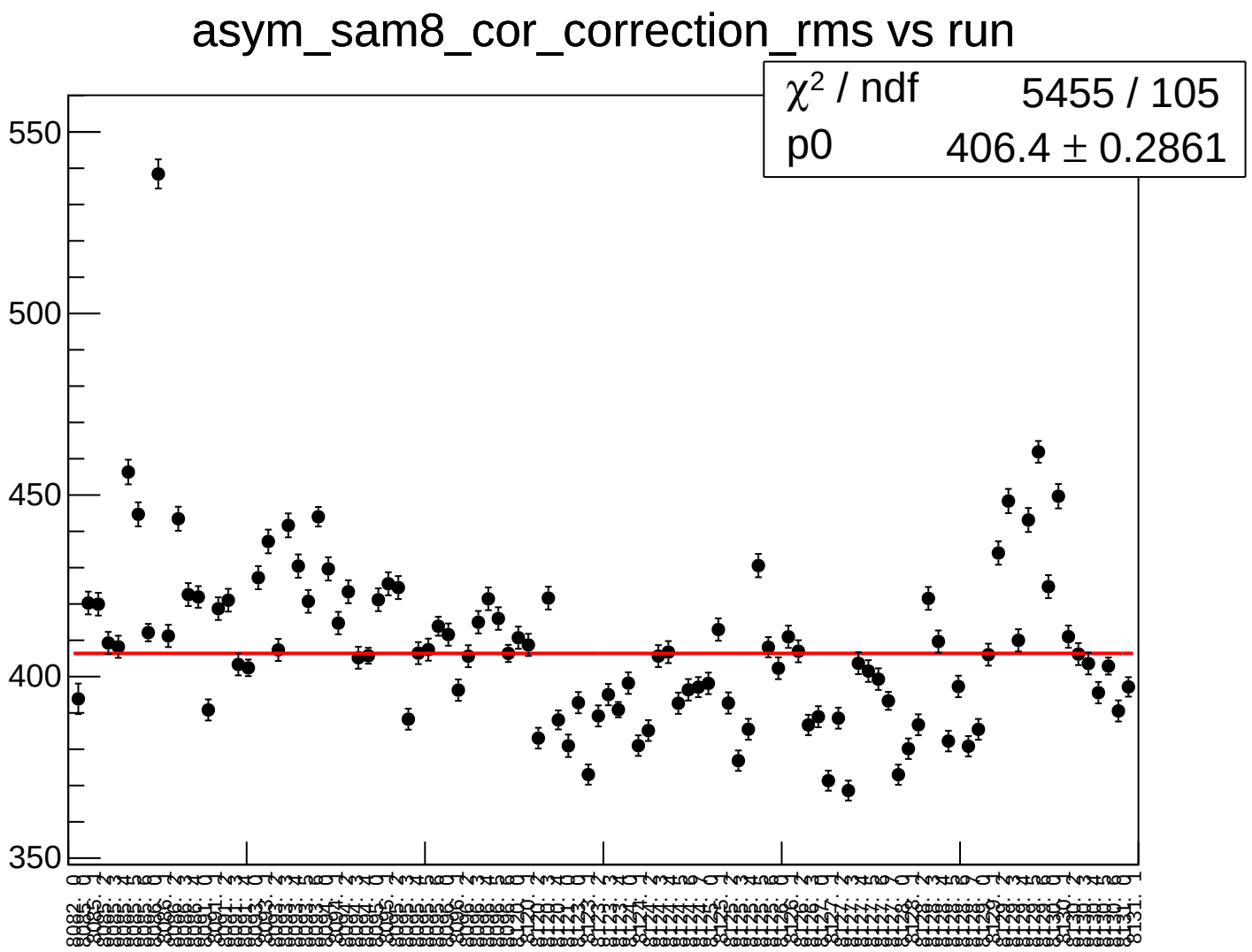

cor_asym_sam8_mean vs run
χ² / ndf 131.3 / 105
p0 5.372 ± 64.81
pull
Entries 106
Mean −47.02
Std Dev 0

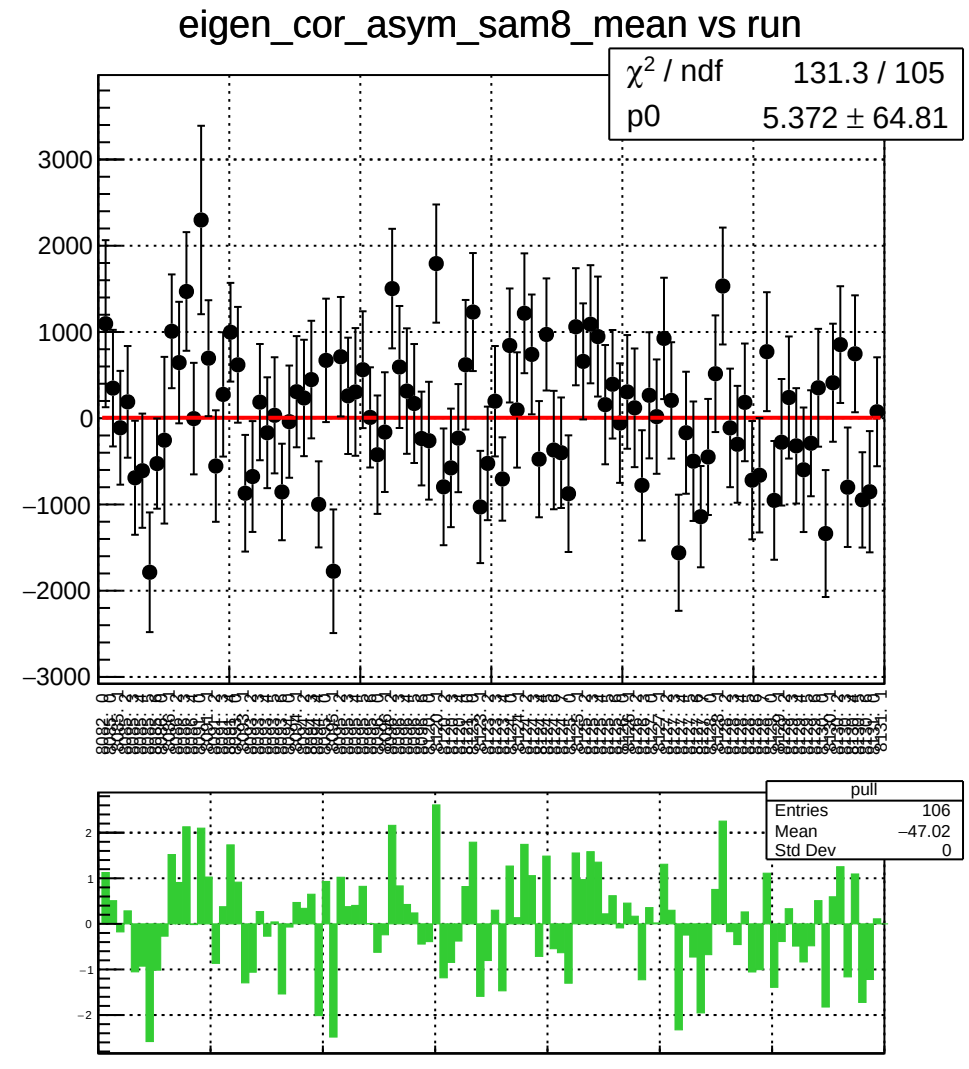

pull1D
Entries 106
Mean 0.03568
Std Dev 1.113

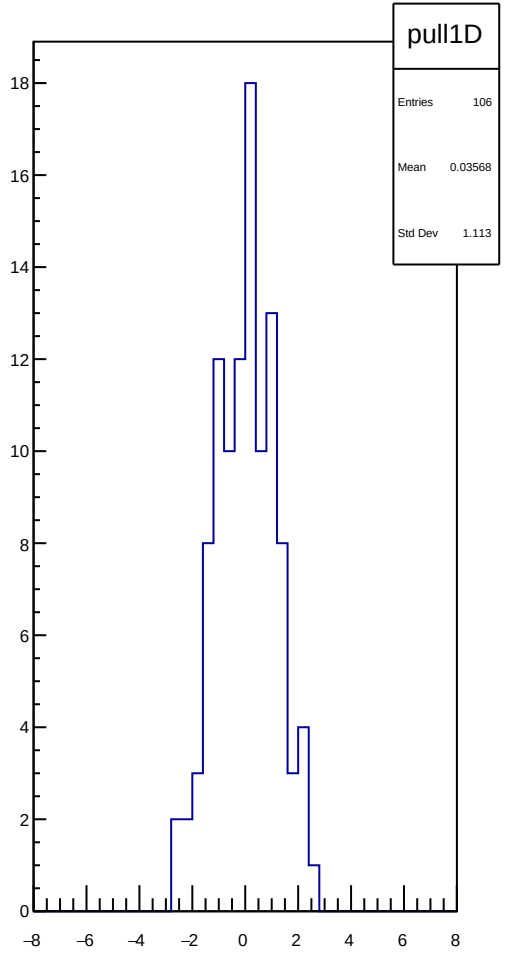

cor_asym_sam8_rms vs run
$\chi^2$ / ndf 6014 / 105
p0 65.09 ± 0.04583
100
90
80
70
60

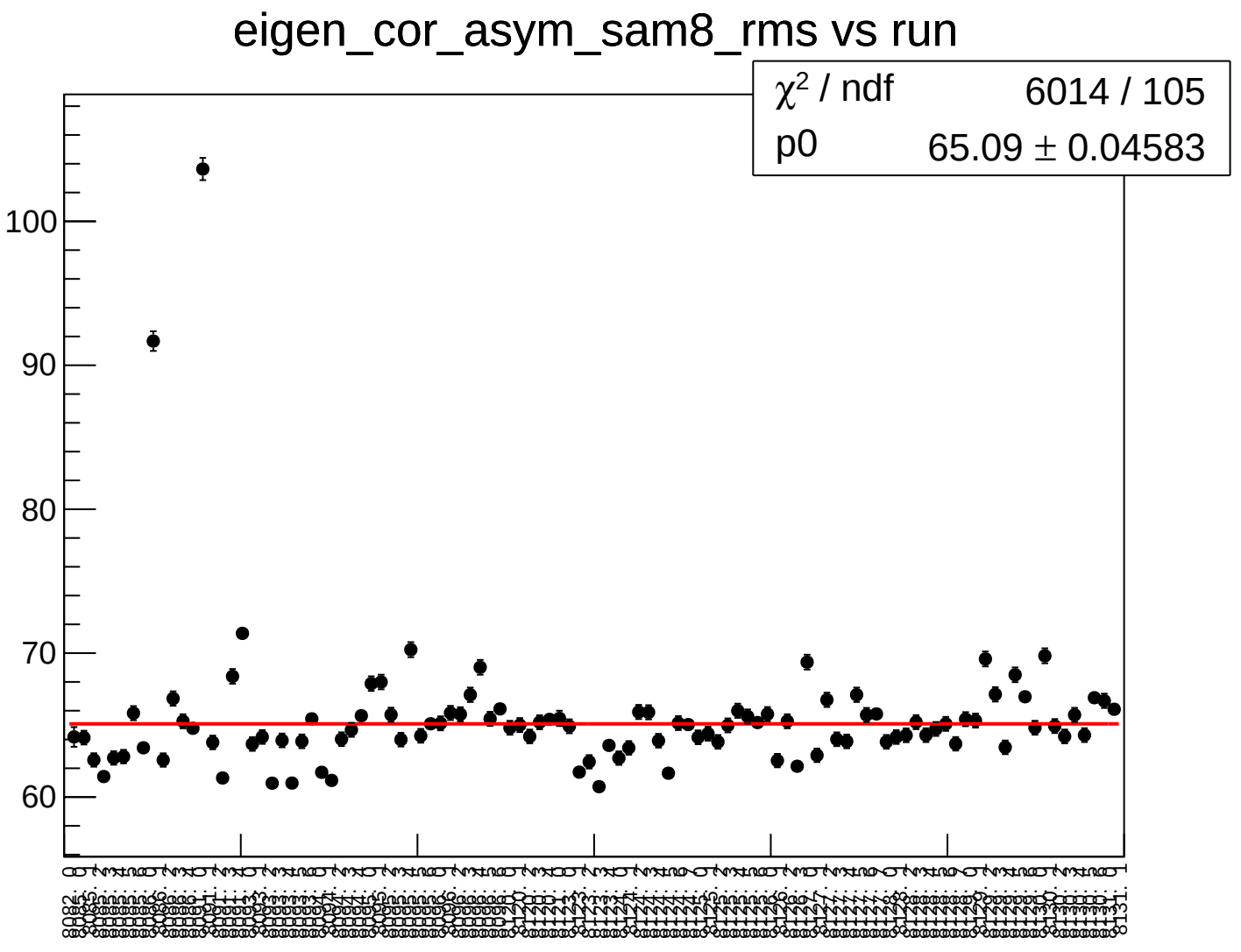

asym_sam8_cor_correction_mean vs run
χ² / ndf 72.34 / 105
p0 −543.5 ± 404.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 106
Mean 33.74
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

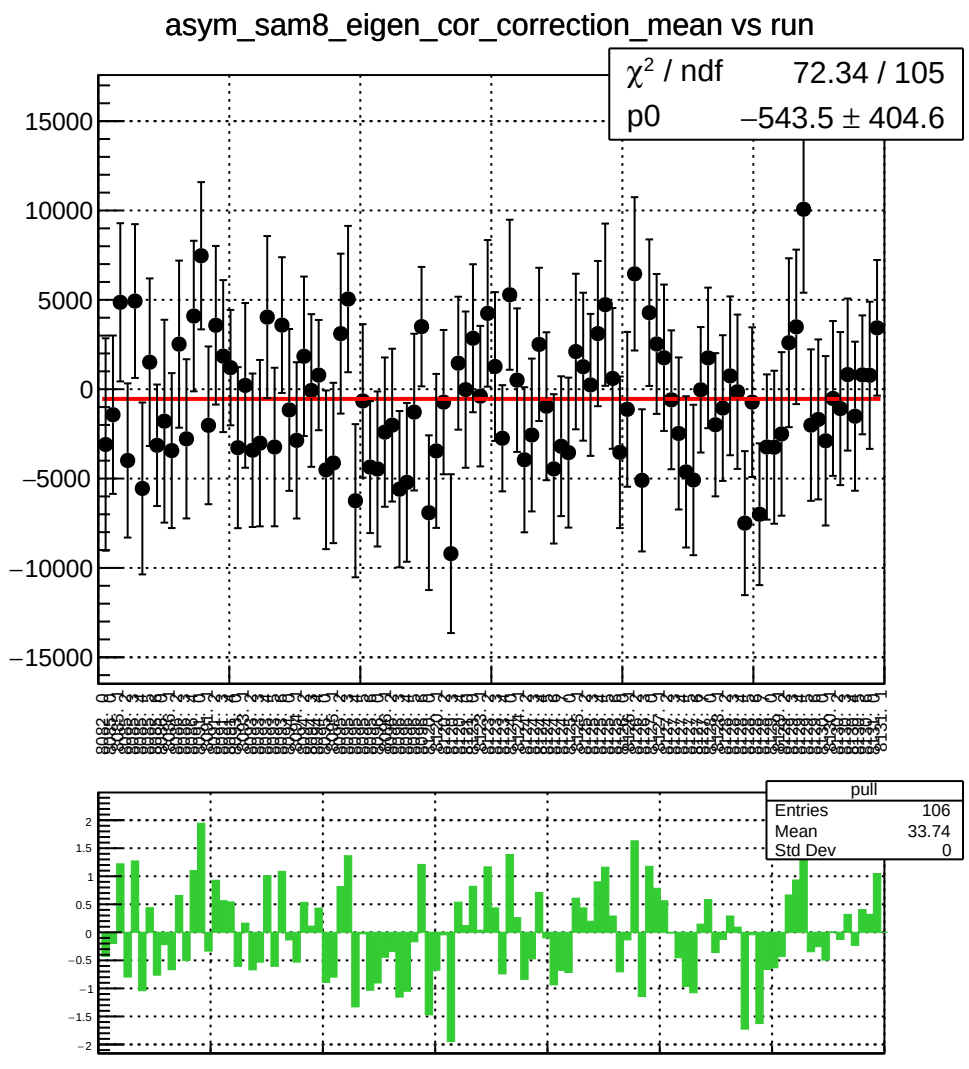

pull1D
Entries 106
Mean −0.006034
Std Dev 0.8261
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

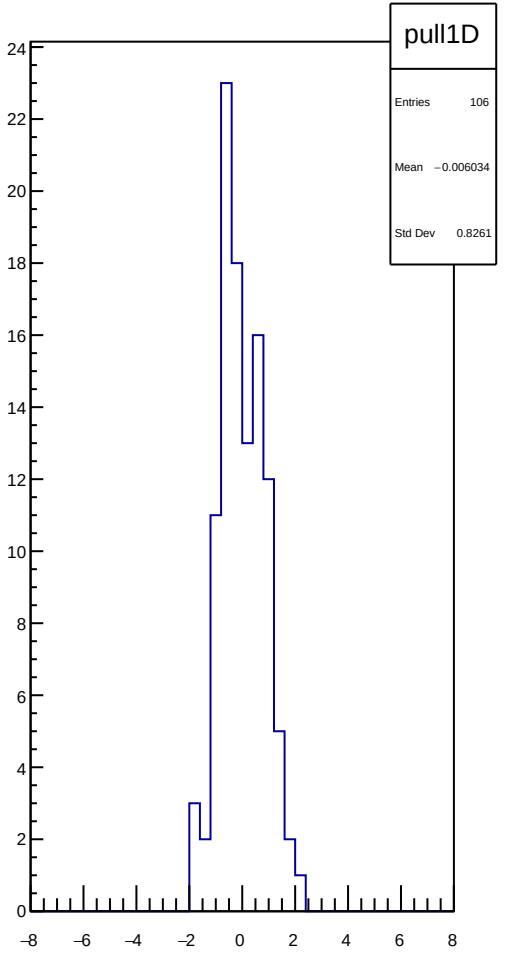

asym_sam8_cor_correction_rms vs run
χ² / ndf 5455 / 105
p0 406.4 ± 0.2861
550
500
450
400
350

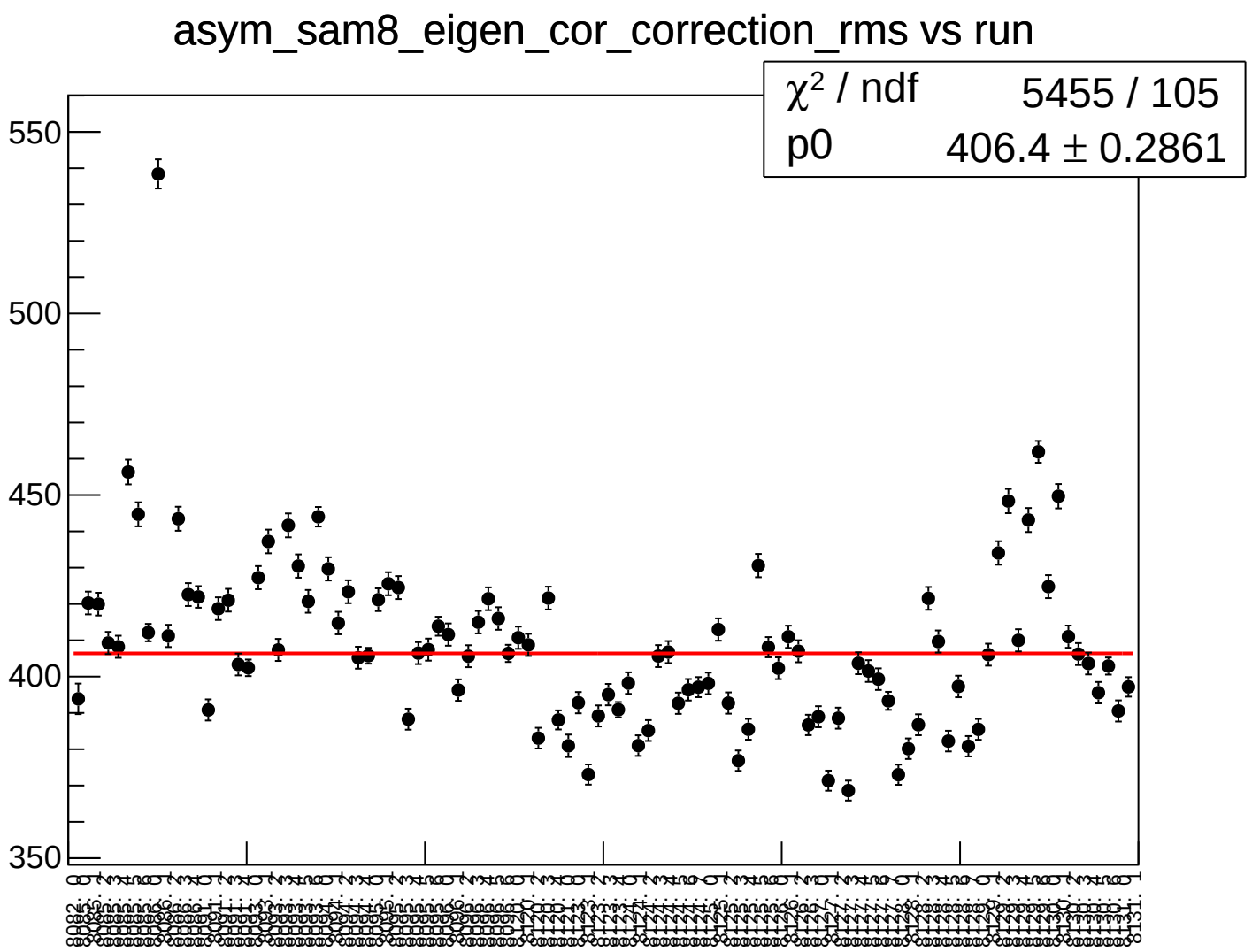

eigen_cor_asym_sam8_mean vs run
χ² / ndf 131.3 / 105
p0 5.372 ± 64.81
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 106
Mean −47.02
Std Dev 0
2
1
0
−1
−2

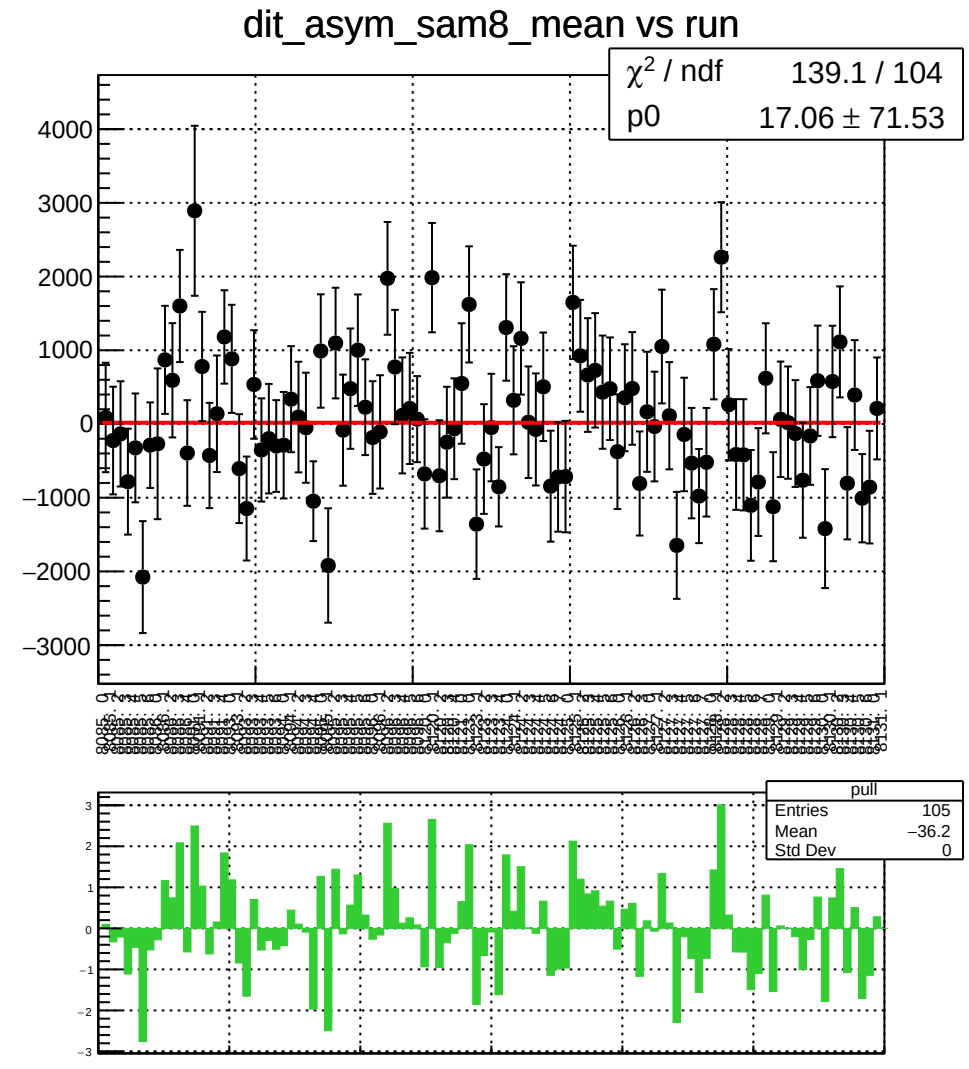

pull1D
Entries 106
Mean 0.03568
Std Dev 1.113
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

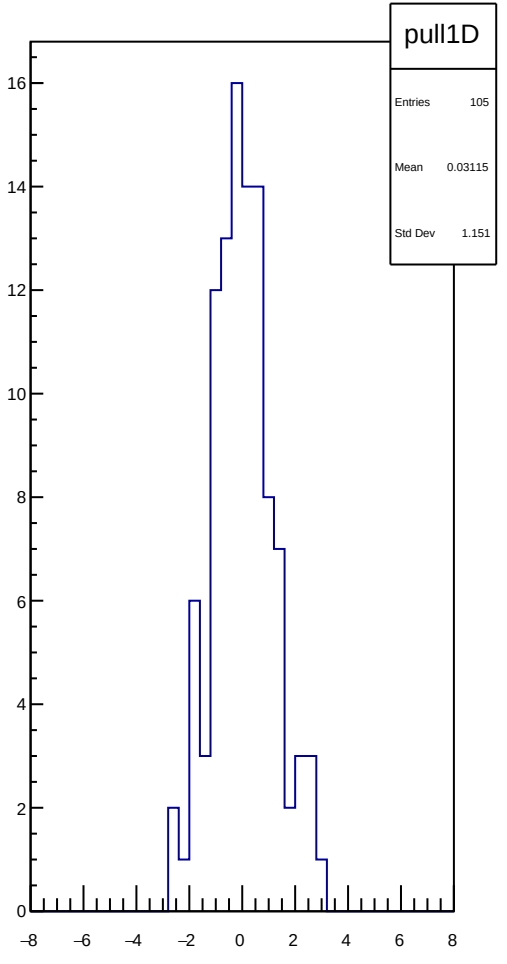

eigen_cor_asym_sam8_rms vs run
χ² / ndf 6014 / 105
p0 65.09 ± 0.04583
100
90
80
70
60

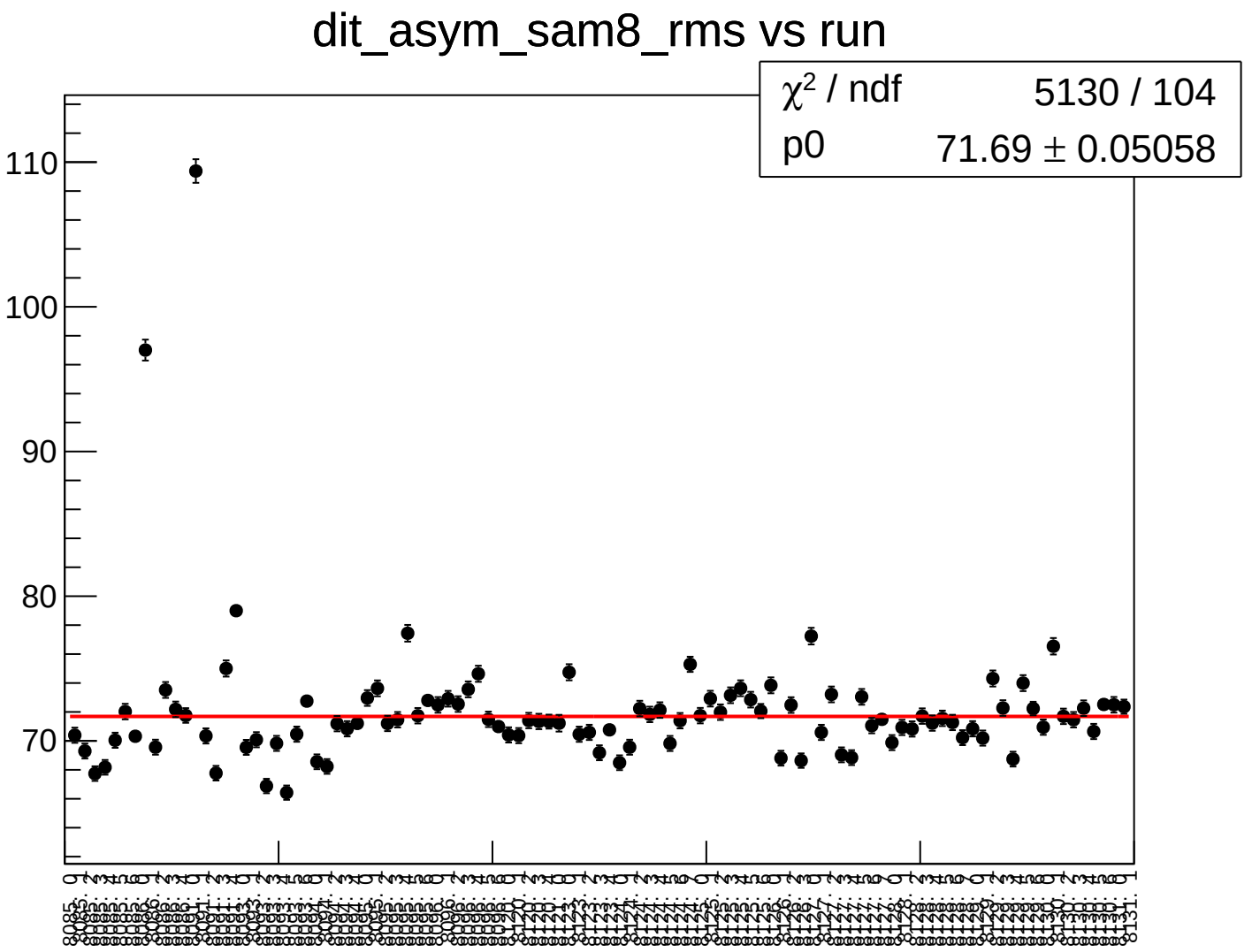

asym_sam8_eigen_cor_correction_mean vs run
χ² / ndf 72.34 / 105
p0 −543.5 ± 404.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 106
Mean 33.74
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

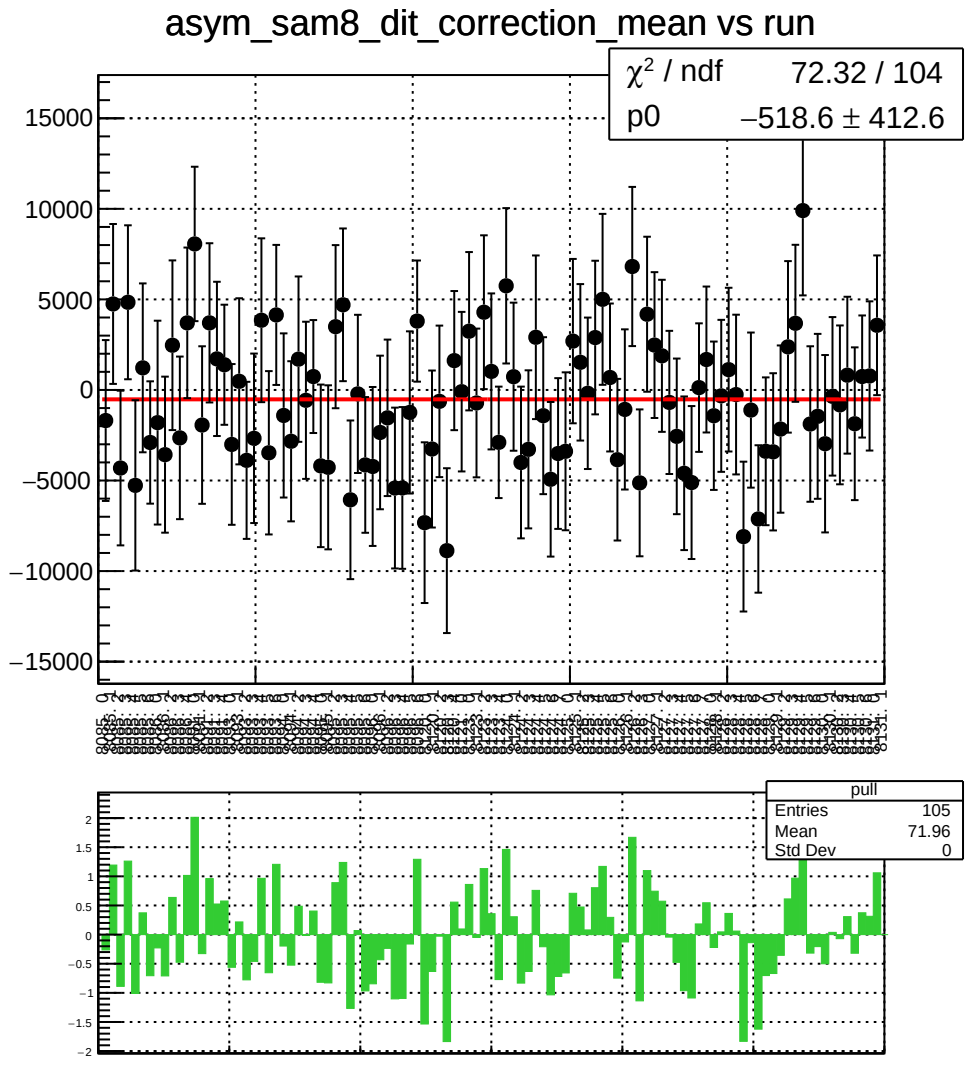

pull1D
Entries 106
Mean −0.006034
Std Dev 0.8261
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

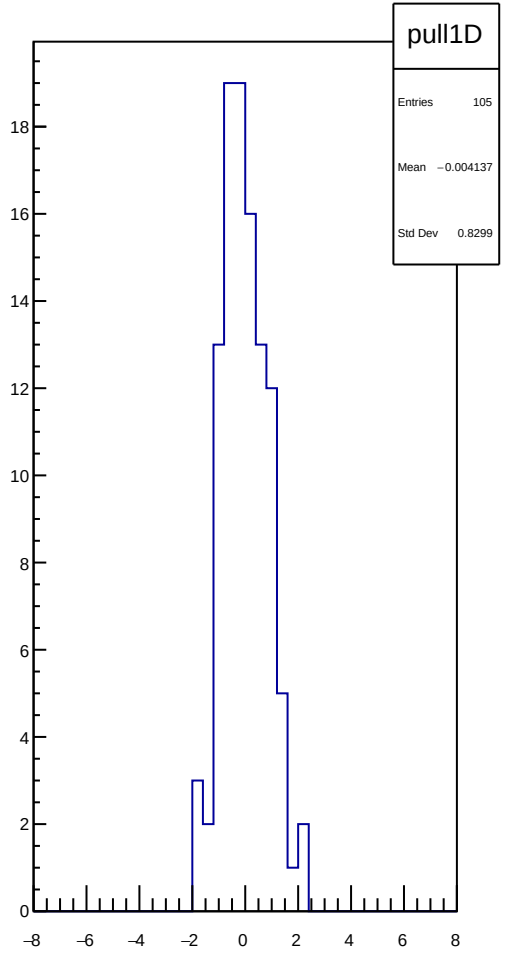

asym_sam8_eigen_cor_correction_rms vs run
χ² / ndf 5455 / 105
p0 406.4 ± 0.2861
550
500
450
400
350

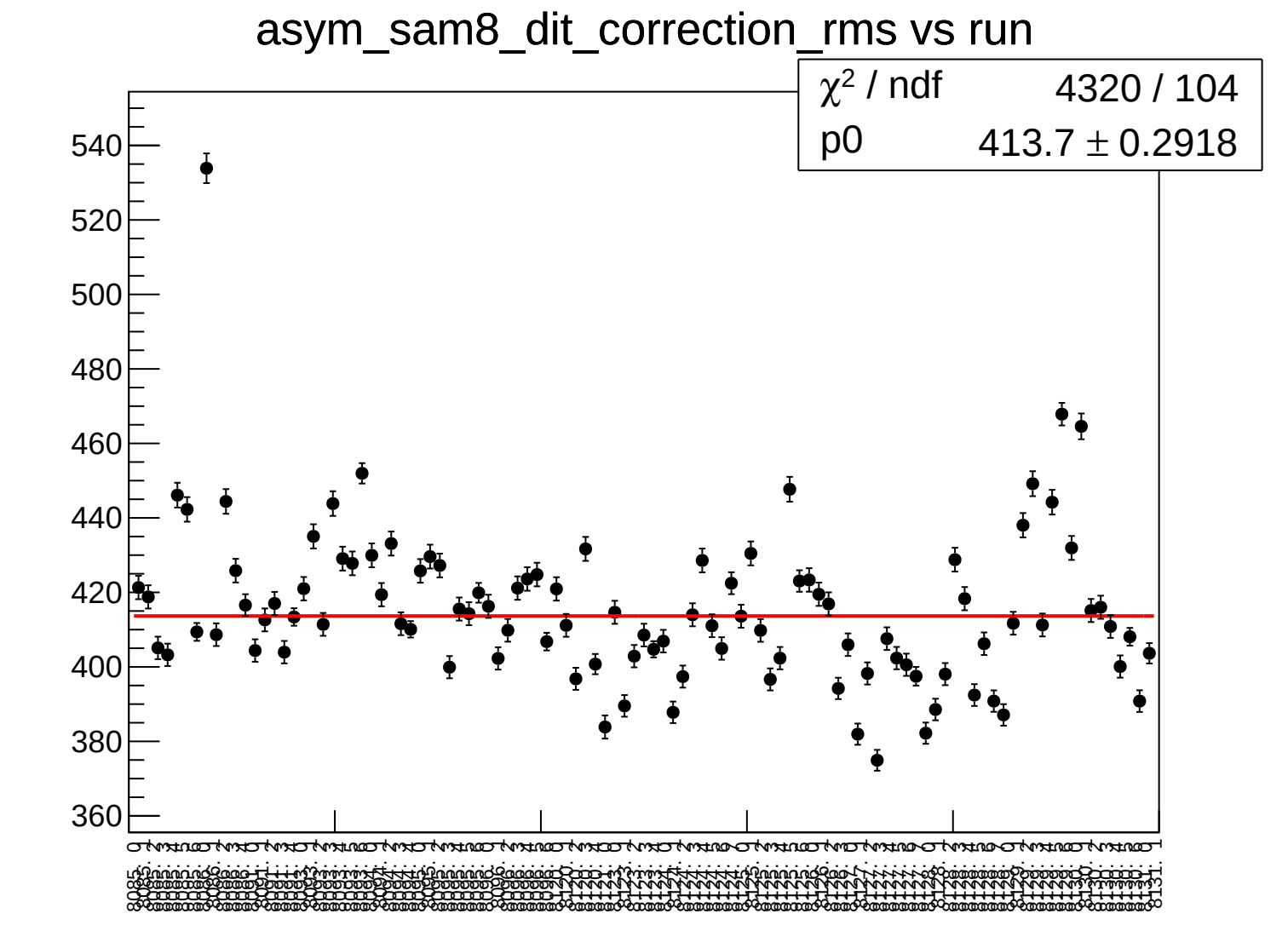

dit_asym_sam8_mean vs run
χ² / ndf 139.1 / 104
p0 17.06 ± 71.53
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 105
Mean −36.2
Std Dev 0
3
2
1
0
−1
−2
−3

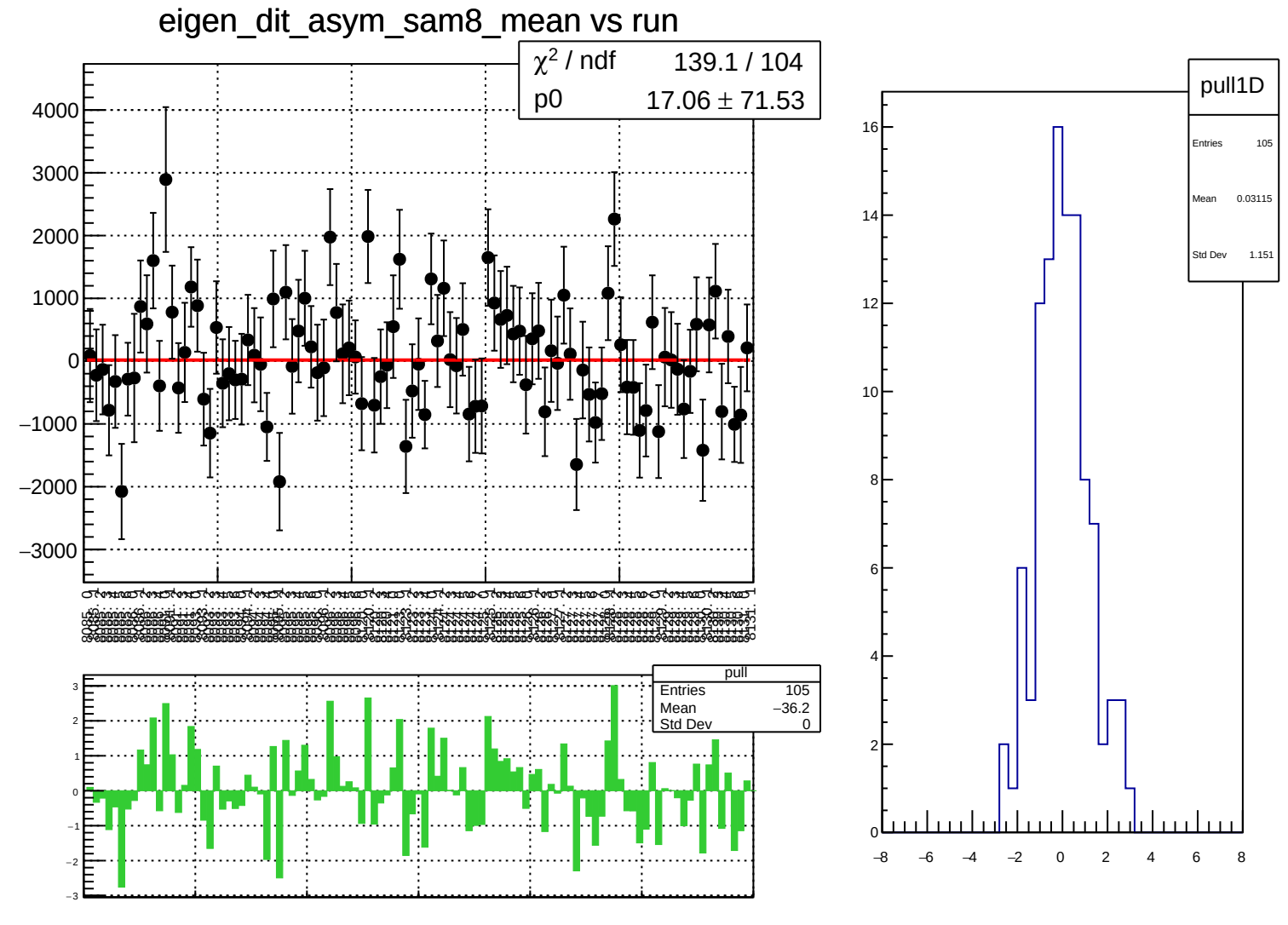

pull1D
Entries 105
Mean 0.03115
Std Dev 1.151
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

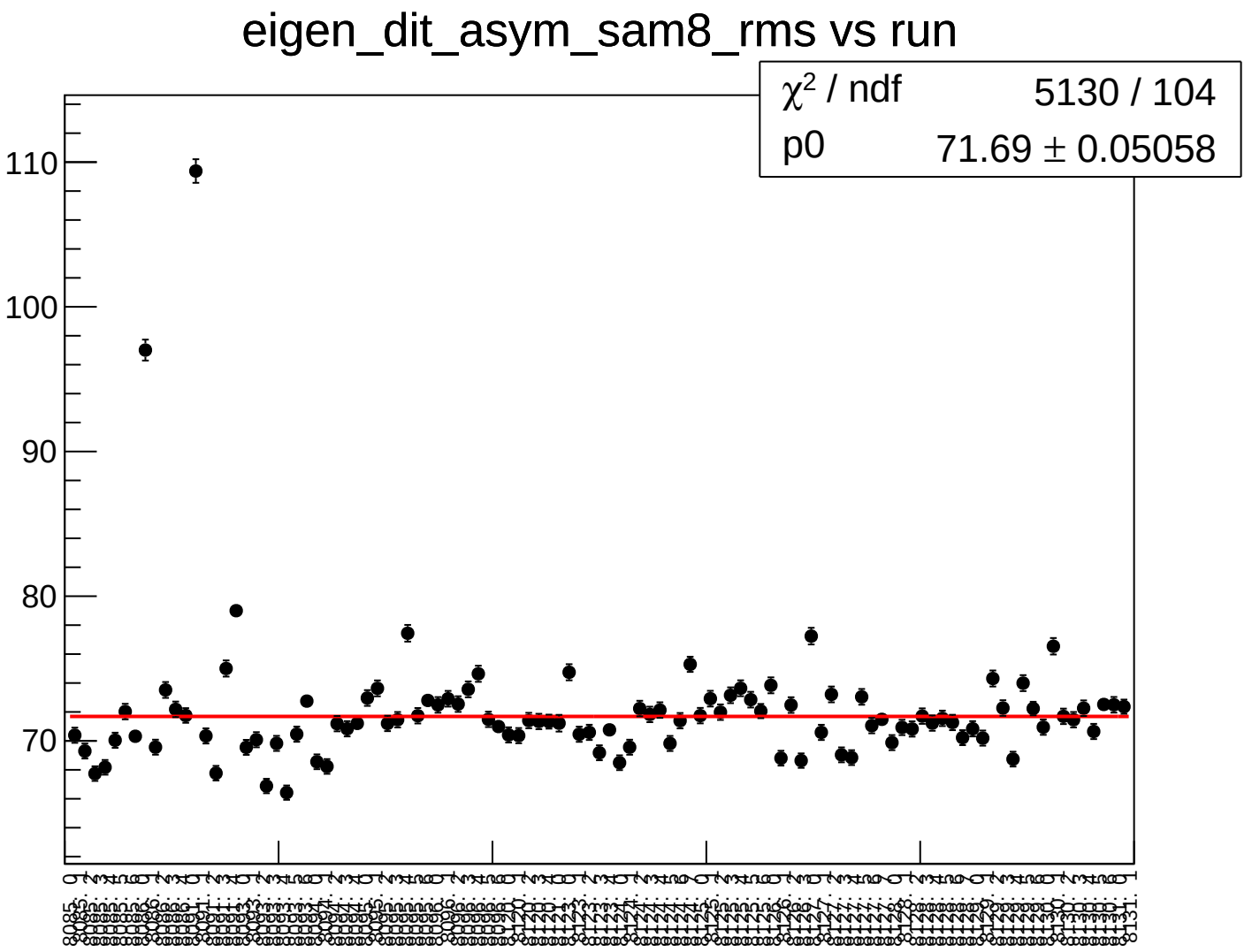

dit_asym_sam8_rms vs run
$\chi^2$ / ndf 5130 / 104
p0 71.69 ± 0.05058
110
100
90
80
70

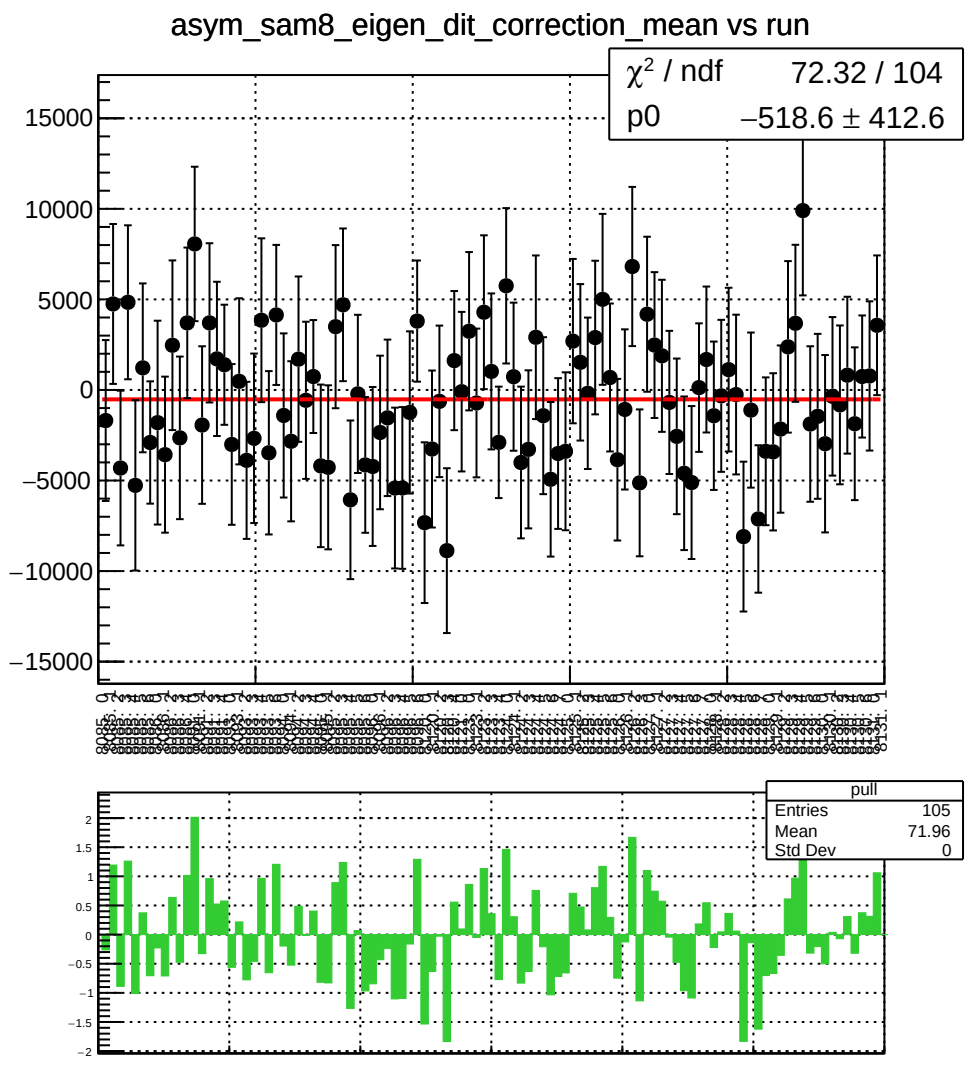

asym_sam8_dit_correction_mean vs run
χ² / ndf 72.32 / 104
p0 −518.6 ± 412.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 105
Mean 71.96
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

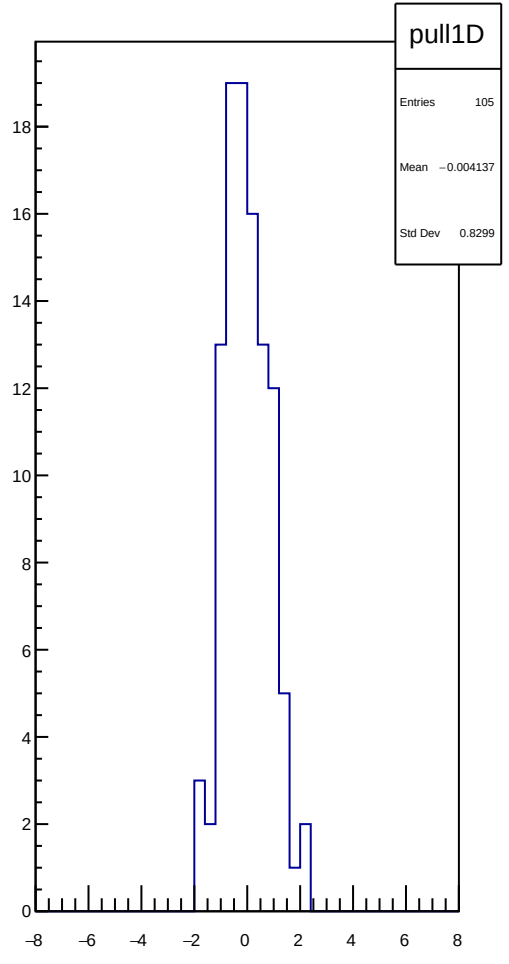

pull1D
Entries 105
Mean −0.004137
Std Dev 0.8299
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

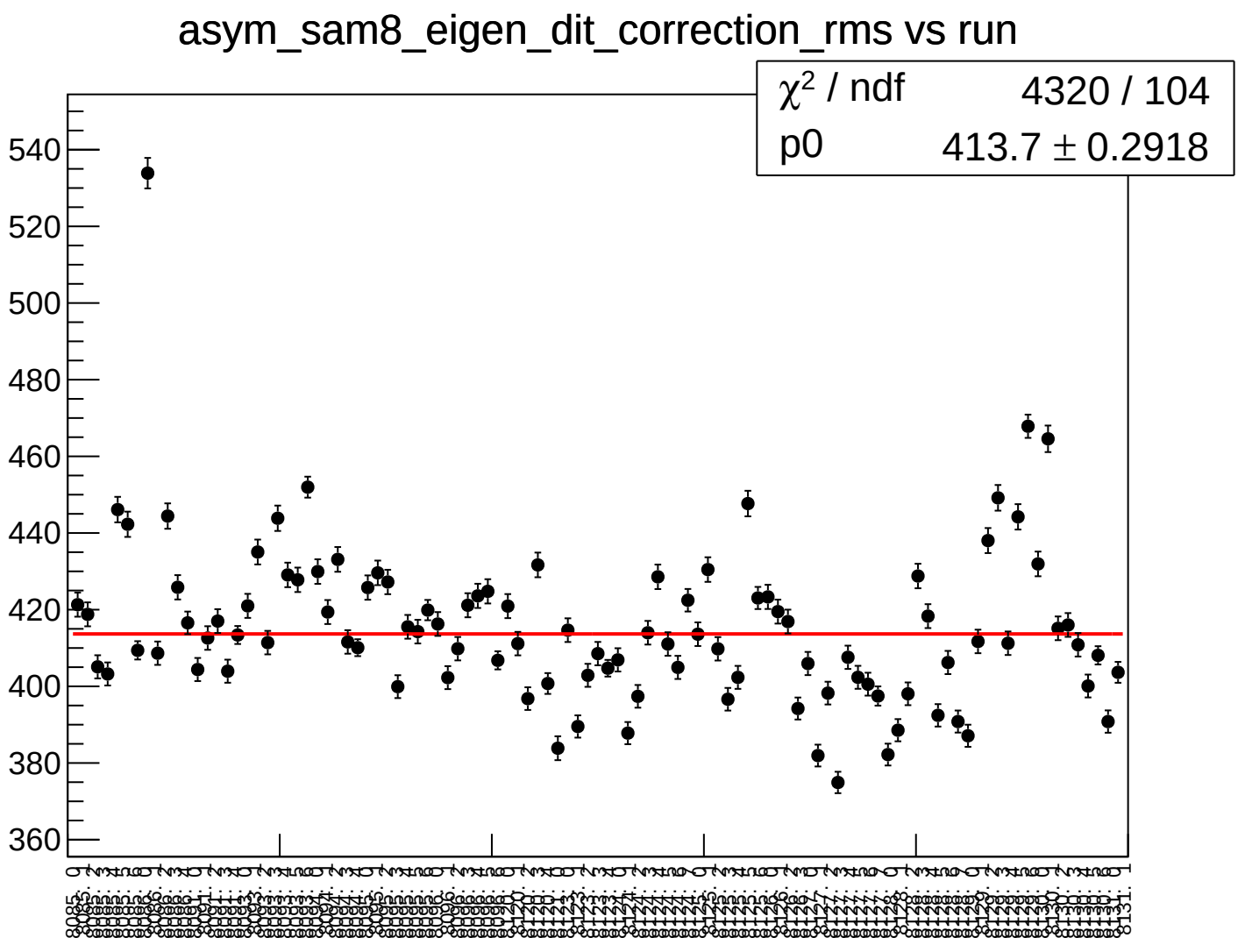

asym_sam8_dit_correction_rms vs run
χ² / ndf 4320 / 104
p0 413.7 ± 0.2918
540
520
500
480
460
440
420
400
380
360

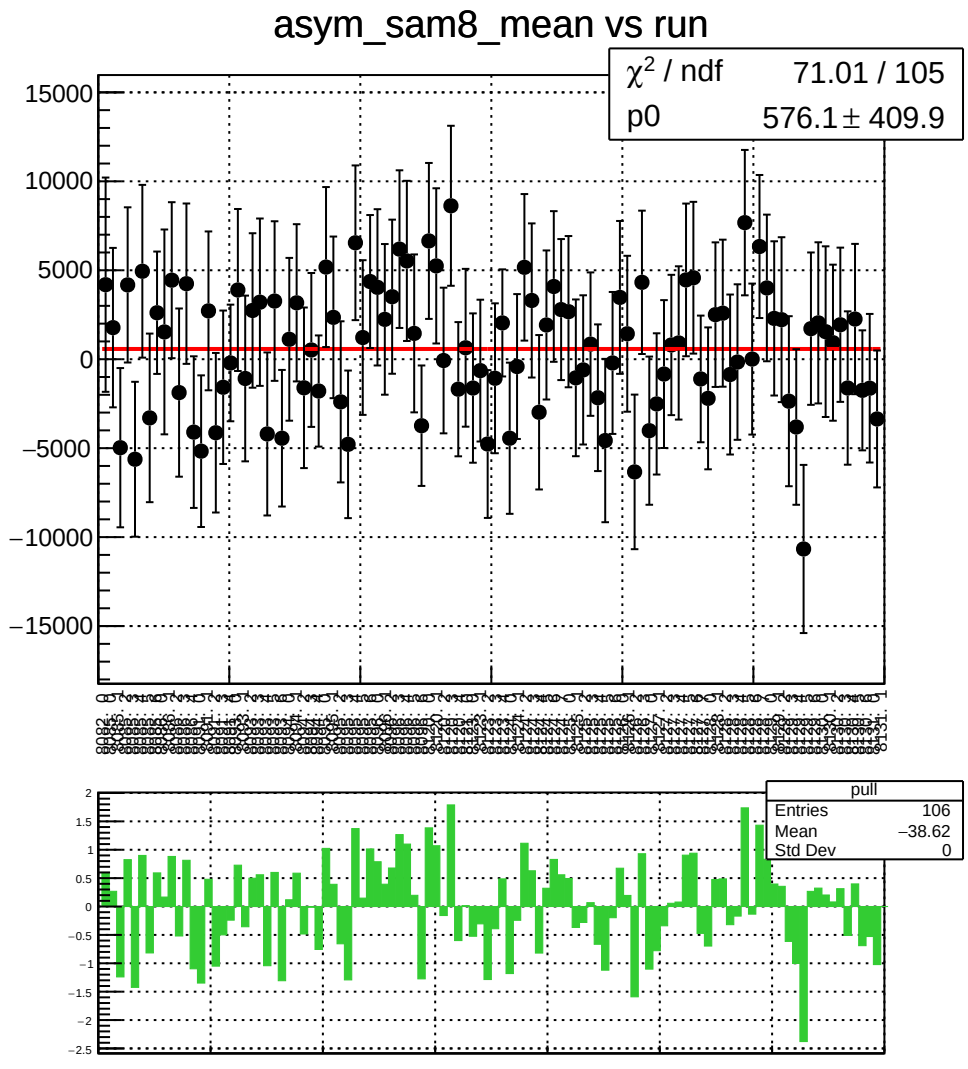

eigen_dit_asym_sam8_mean vs run
χ² / ndf 139.1 / 104
p0 17.06 ± 71.53
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 105
Mean −36.2
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 105
Mean 0.03115
Std Dev 1.151
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

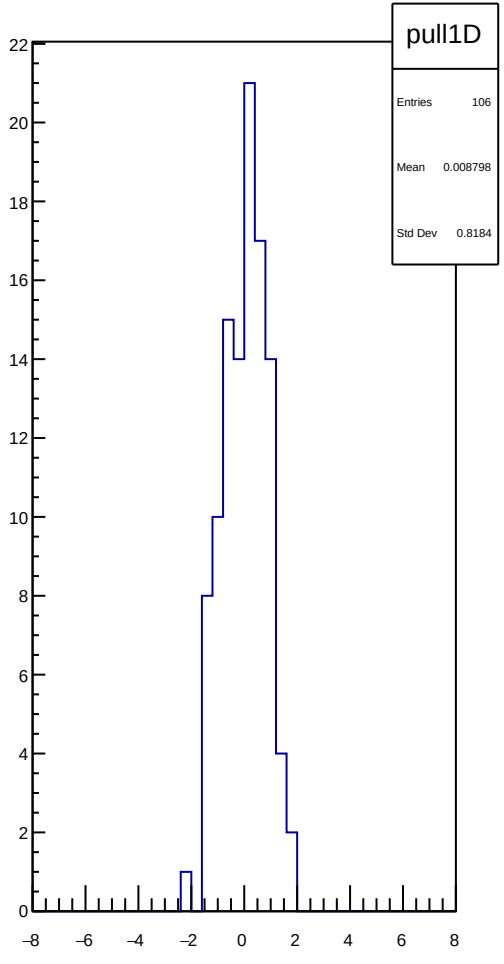

eigen_dit_asym_sam8_rms vs run
$\chi^2$ / ndf 5130 / 104
p0 71.69 ± 0.05058
110
100
90
80
70

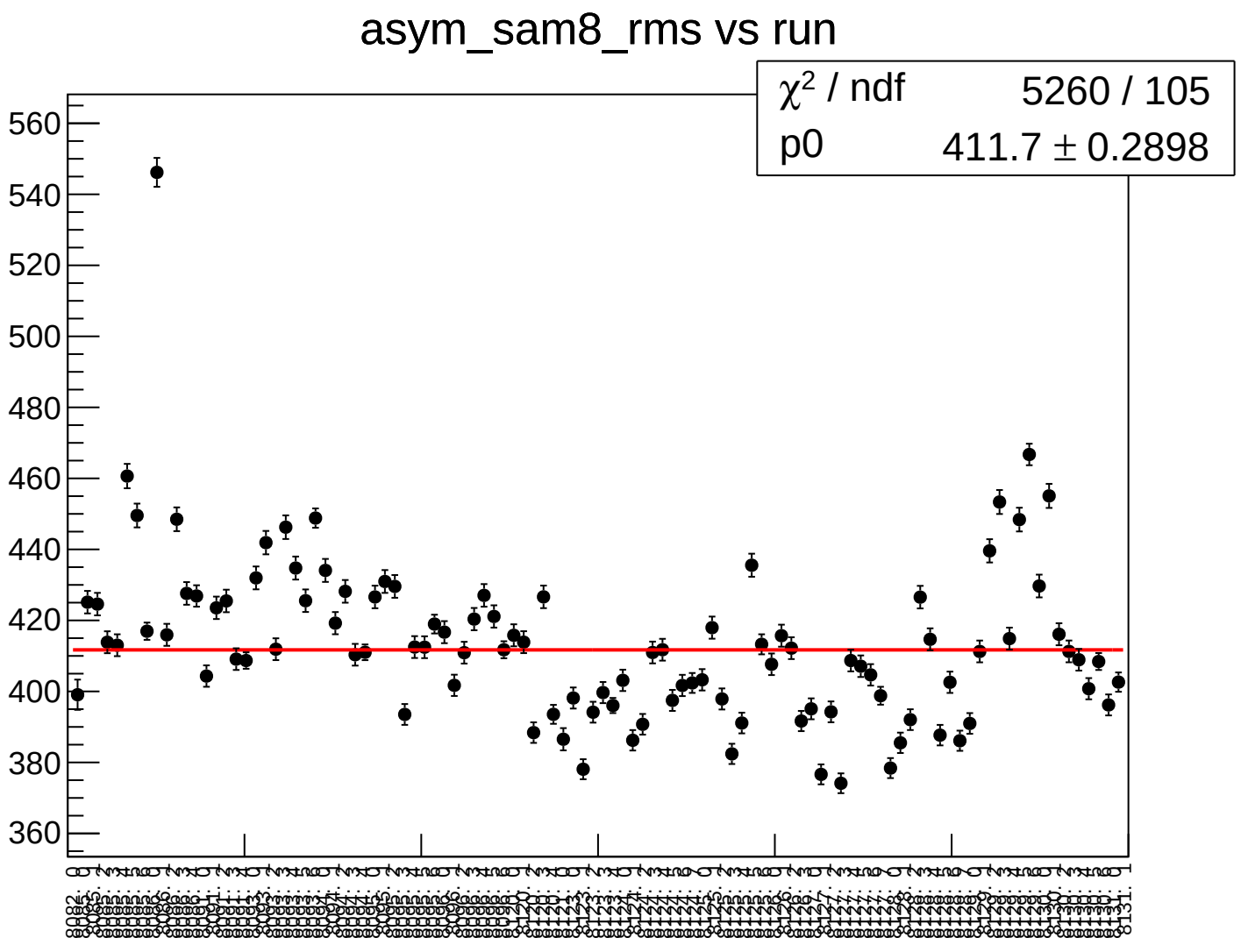

asym_sam8_eigen_dit_correction_mean vs run
χ² / ndf 72.32 / 104
p0 −518.6 ± 412.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 105
Mean 71.96
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

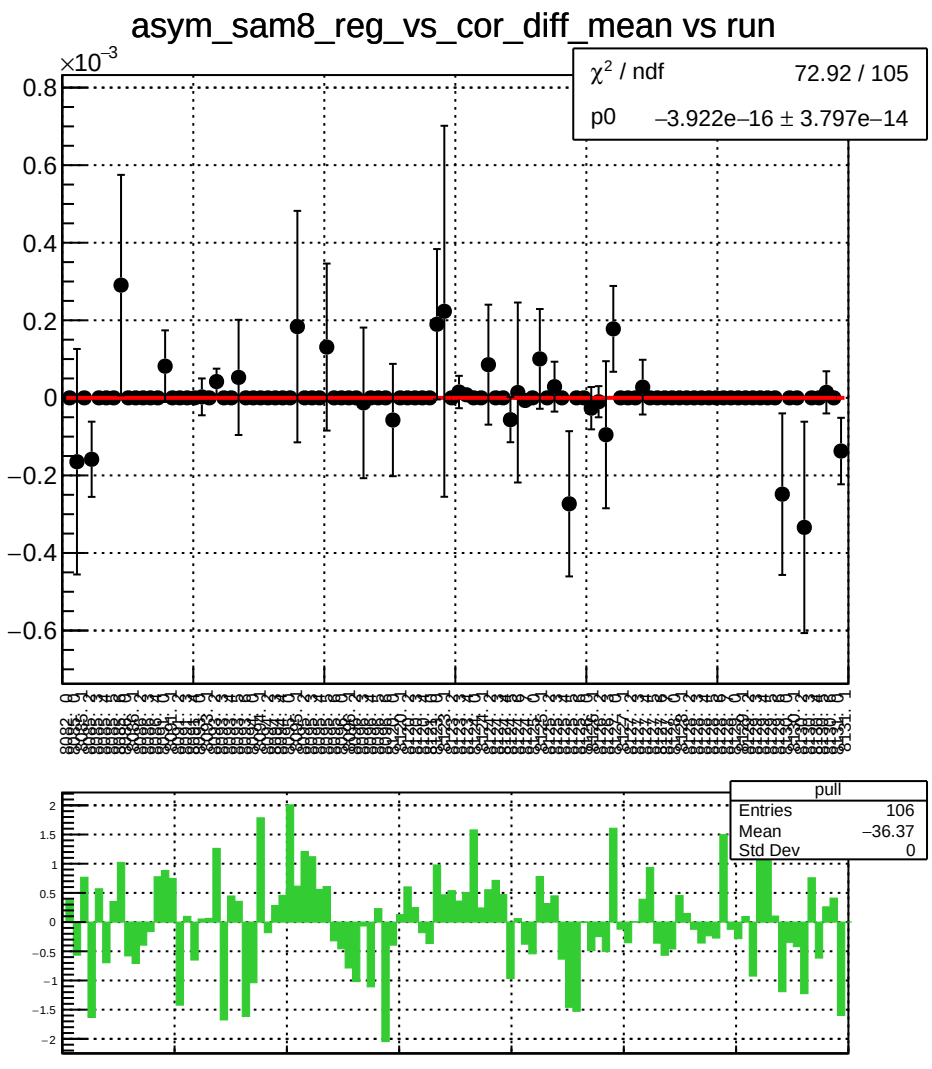

pull1D
Entries 105
Mean −0.004137
Std Dev 0.8299
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

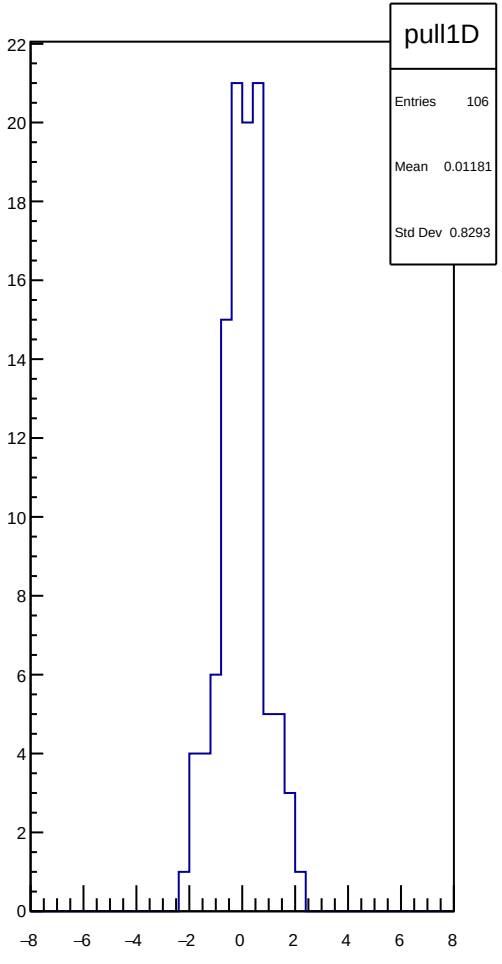

asym_sam8_eigen_dit_correction_rms vs run
χ² / ndf 4320 / 104
p0 413.7 ± 0.2918
540
520
500
480
460
440
420
400
380
360

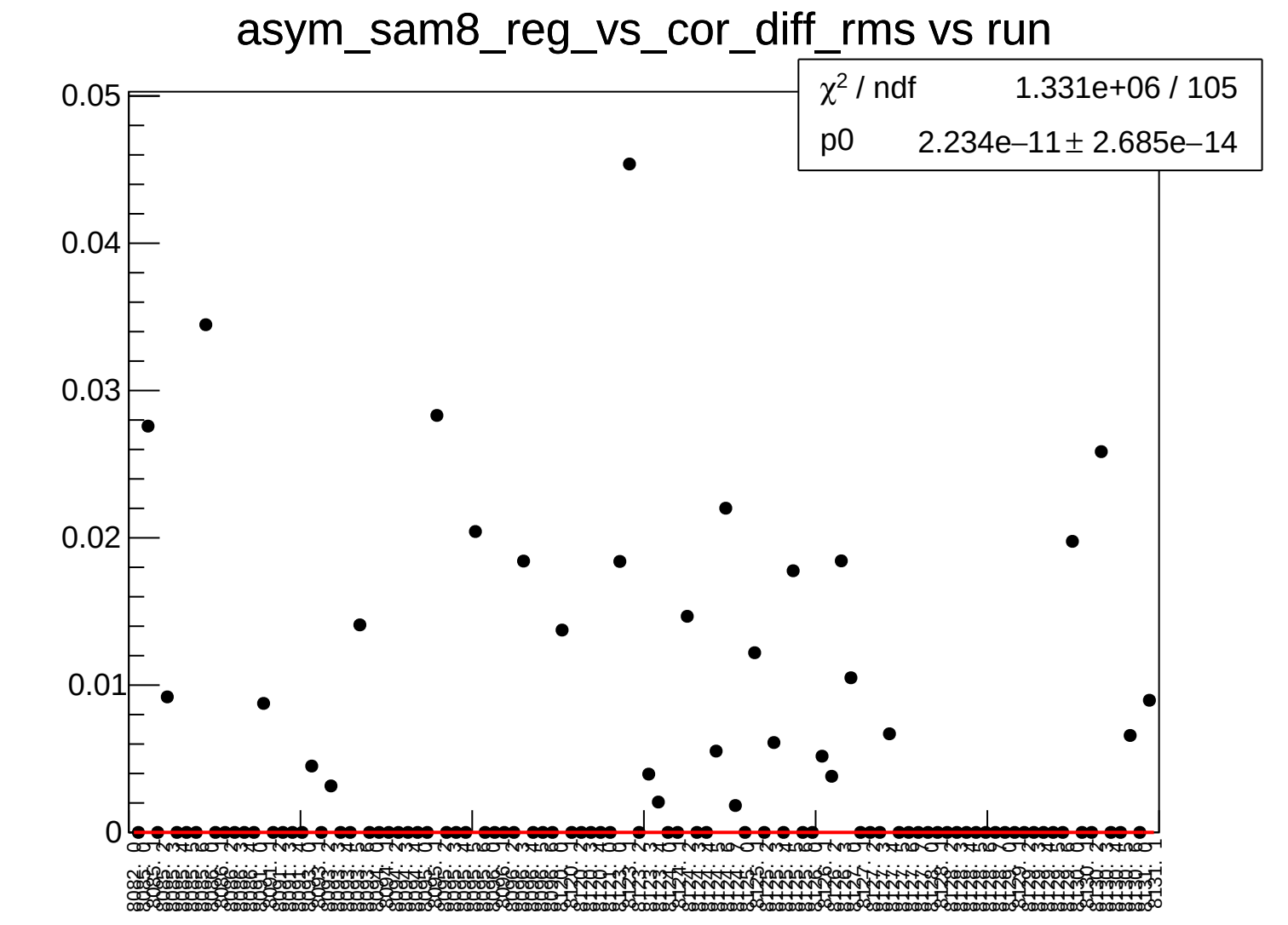

asym_sam8_mean vs run
χ² / ndf 71.01 / 105
p0 576.1 ± 409.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 106
Mean −38.62
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

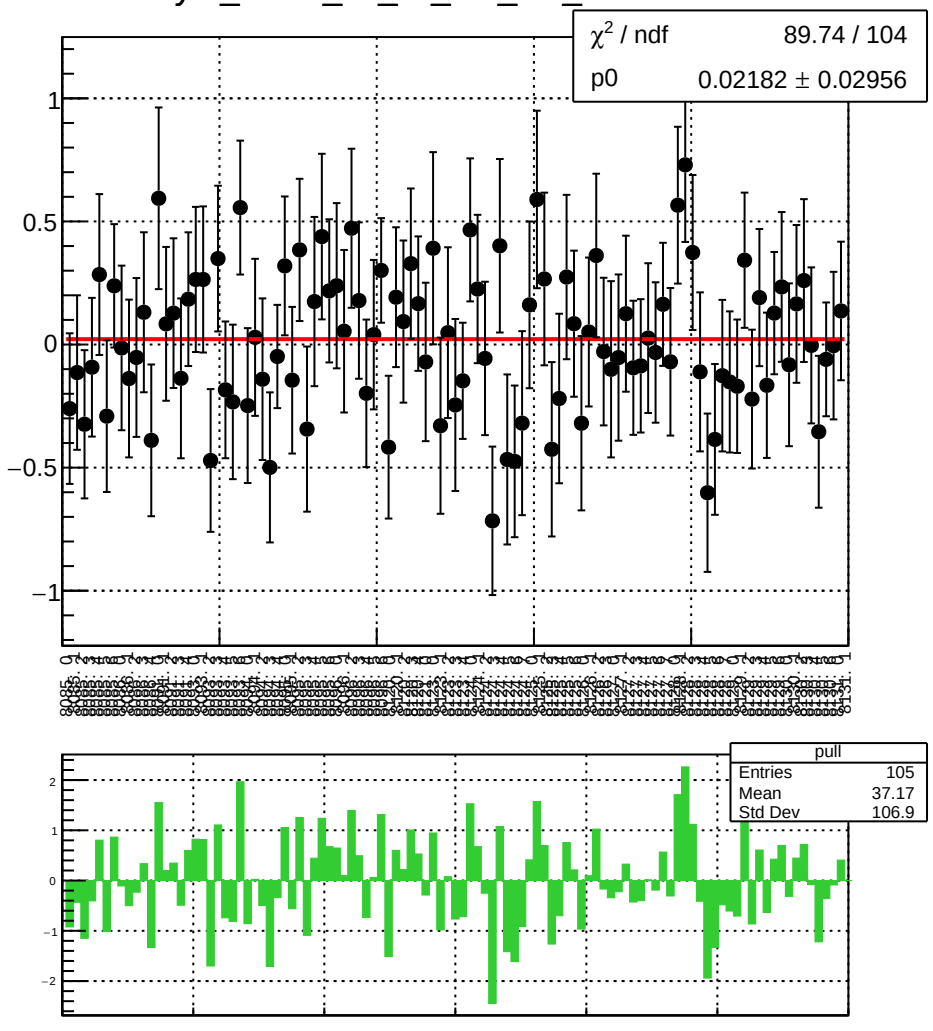

pull1D
Entries 106
Mean 0.008798
Std Dev 0.8184
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

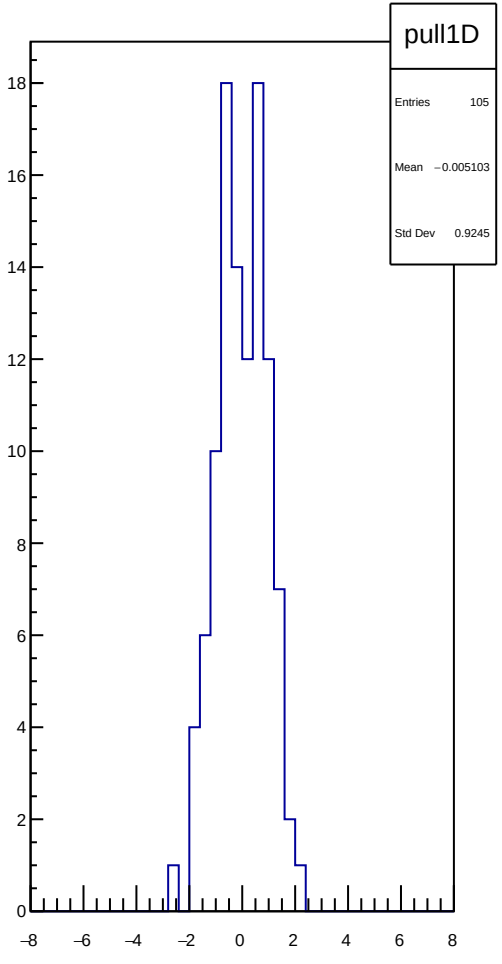

asym_sam8_rms vs run
$\chi^2$ / ndf 5260 / 105
p0 411.7 ± 0.2898
560
540
520
500
480
460
440
420
400
380
360

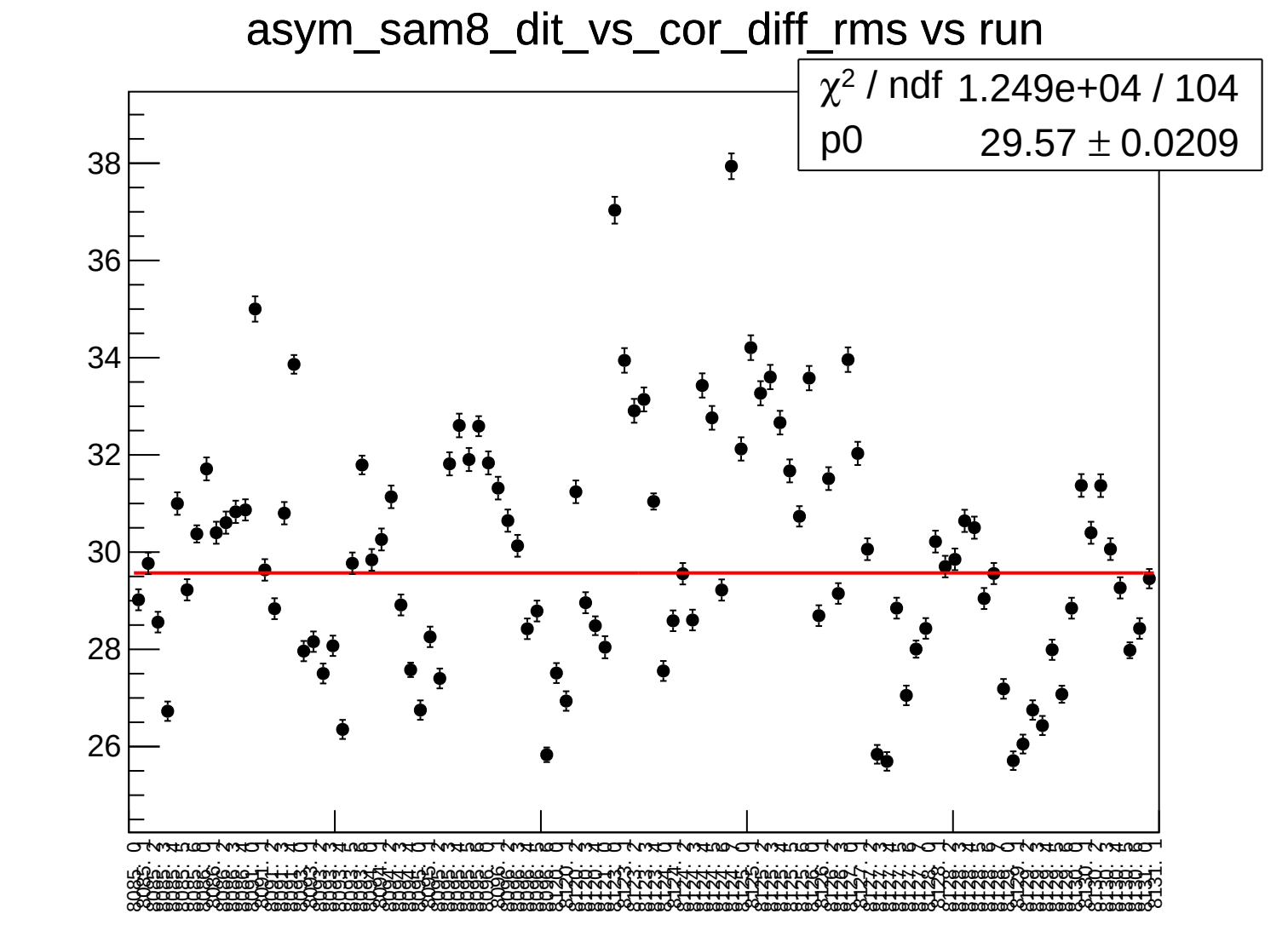

asym_sam8_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 72.92 / 105
p0 −3.922e−16 ± 3.797e−14
pull
Entries 106
Mean −36.37
Std Dev 0

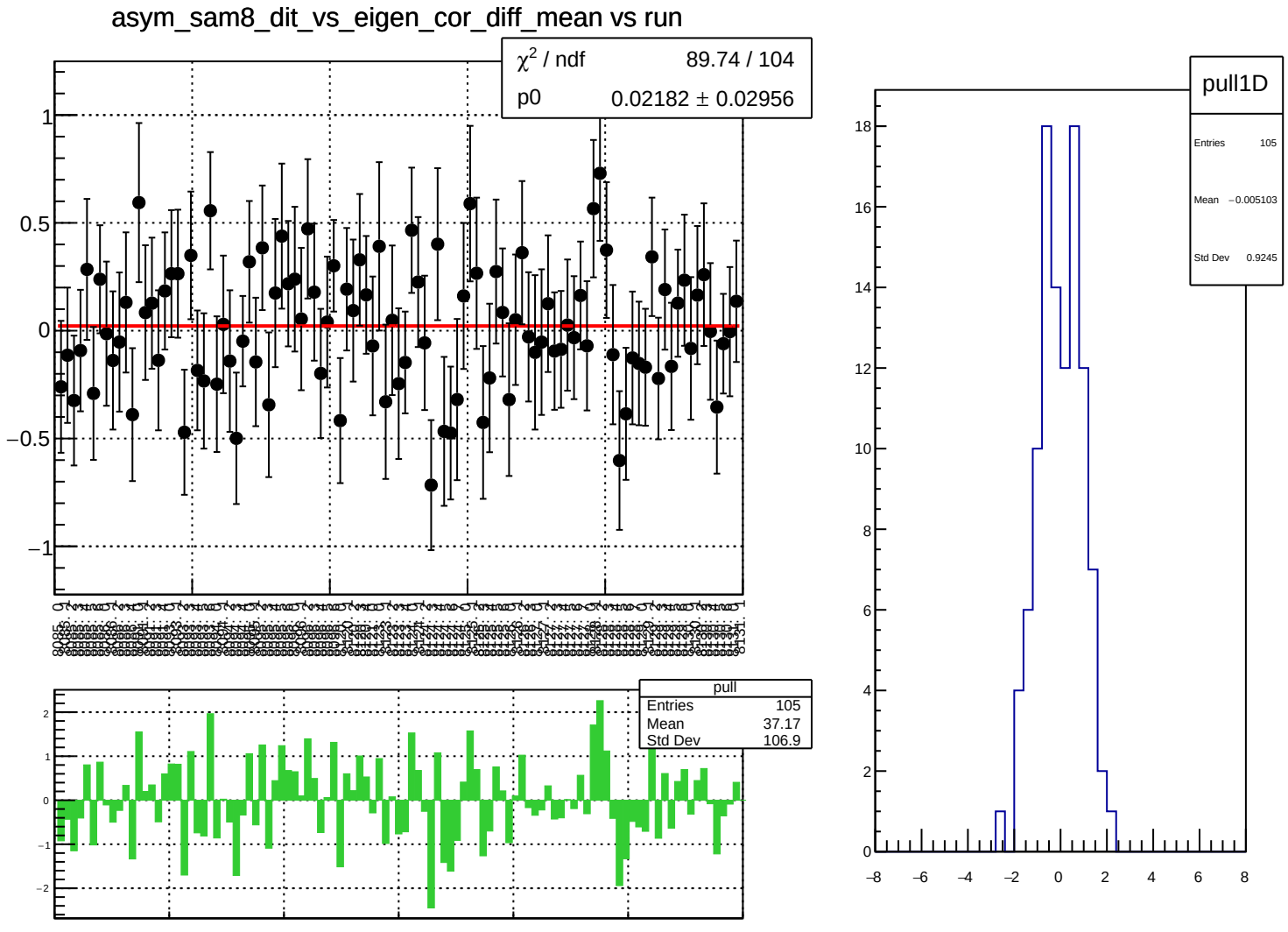

pull1D
Entries 106
Mean 0.01181
Std Dev 0.8293

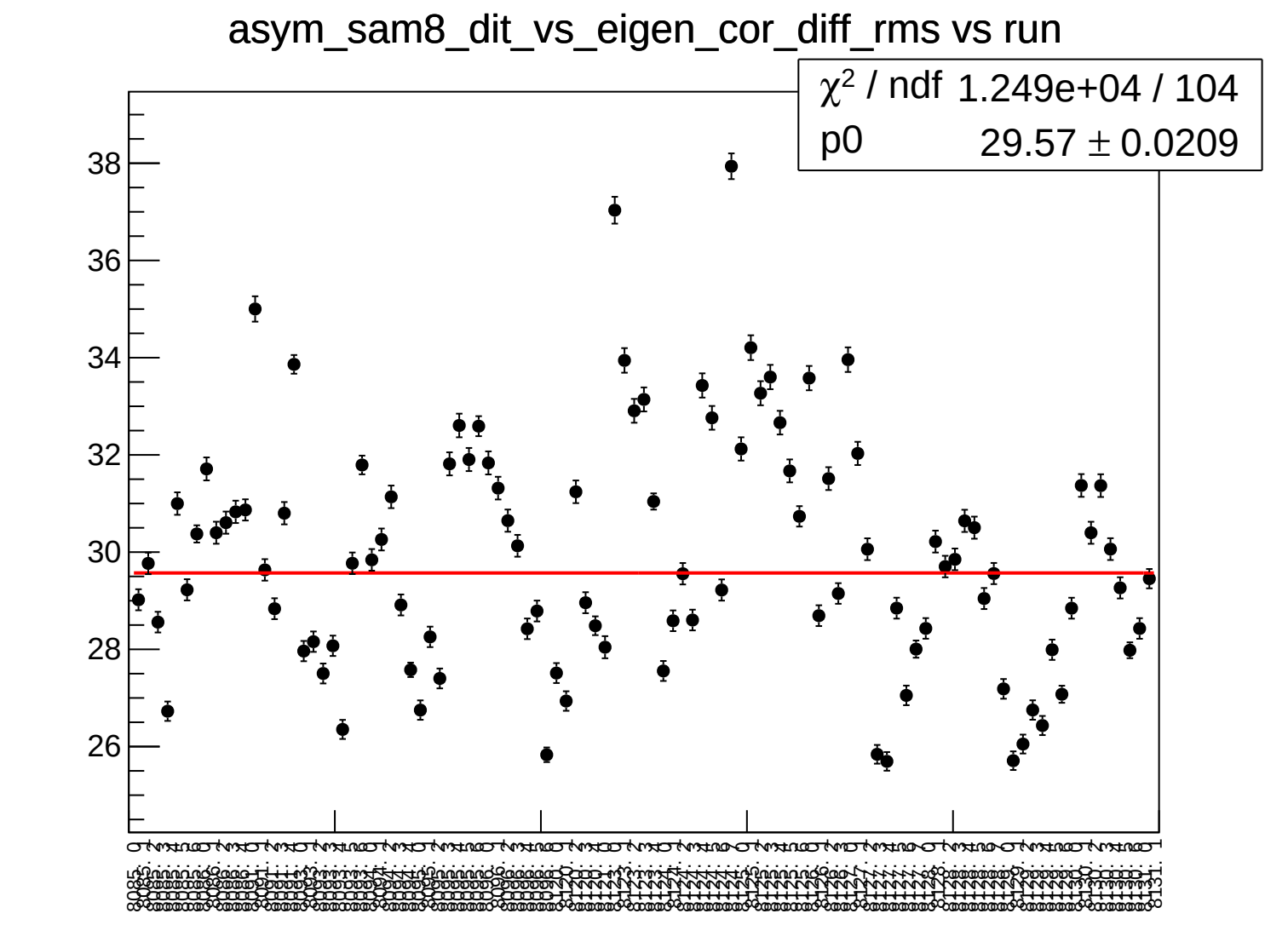

asym_sam8_reg_vs_cor_diff_rms vs run
χ² / ndf 1.331e+06 / 105
p0 2.234e−11 ± 2.685e−14
0.05
0.04
0.03
0.02
0.01
0

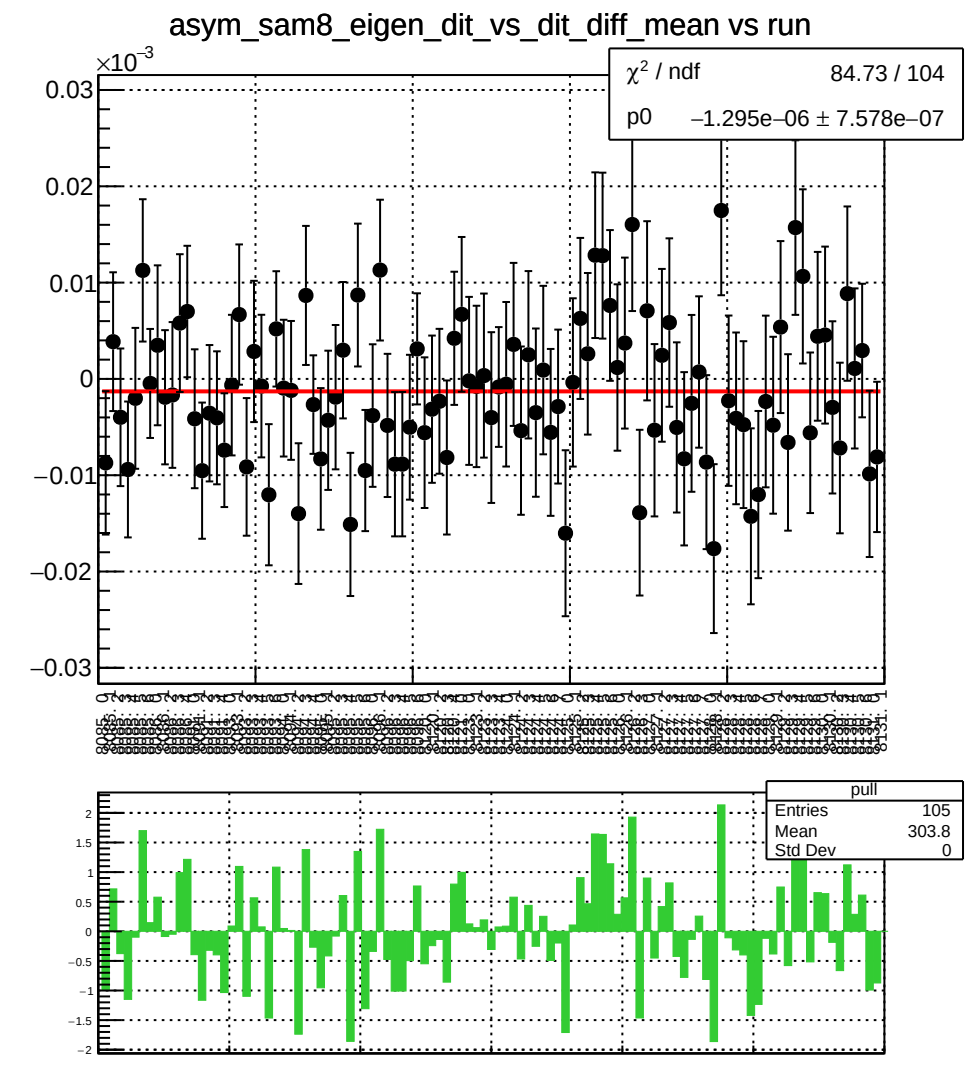

asym_sam8_dit_vs_cor_diff_mean vs run
χ² / ndf 89.74 / 104
p0 0.02182 ± 0.02956
pull
Entries 105
Mean 37.17
Std Dev 106.9

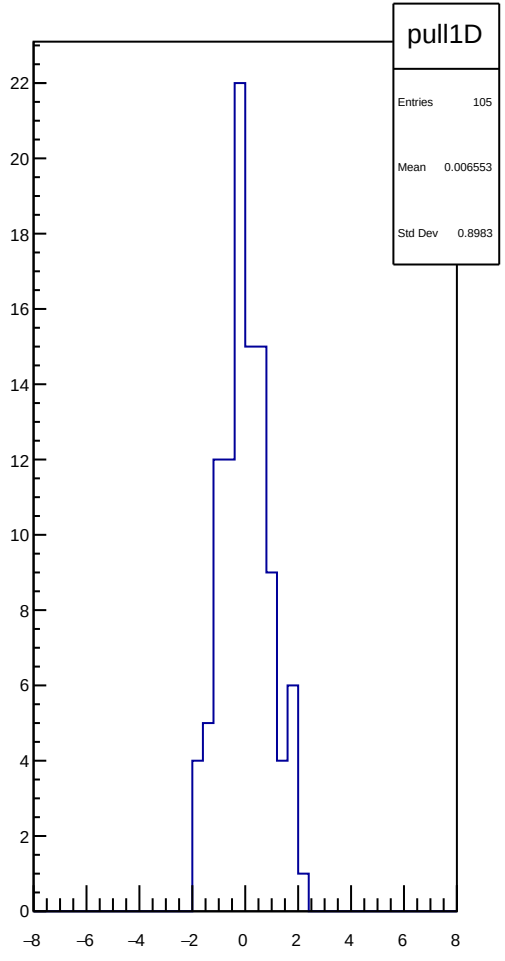

pull1D
Entries 105
Mean −0.005103
Std Dev 0.9245

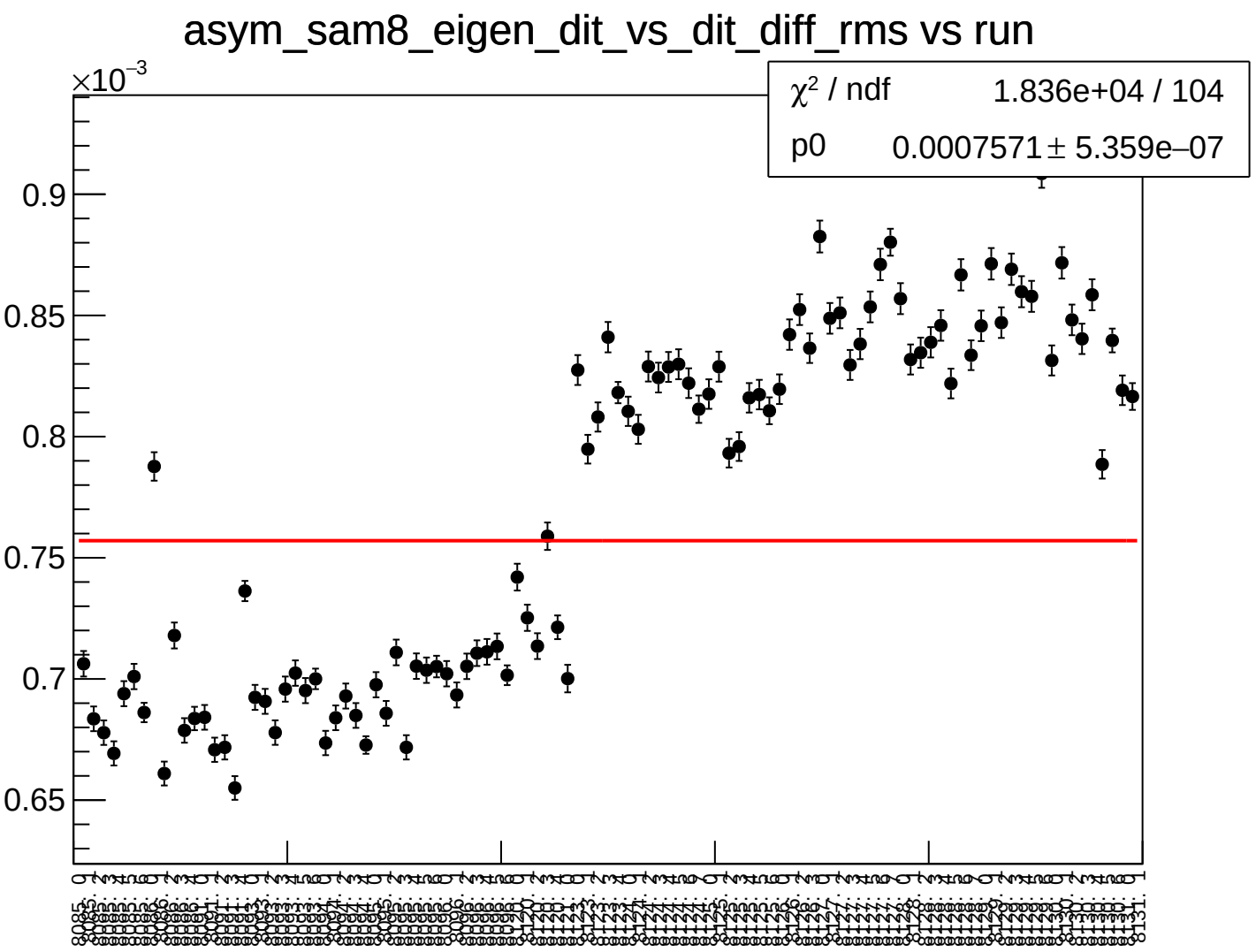

asym_sam8_dit_vs_cor_diff_rms vs run
χ² / ndf 1.249e+04 / 104
p0 29.57 ± 0.0209
38
36
34
32
30
28
26

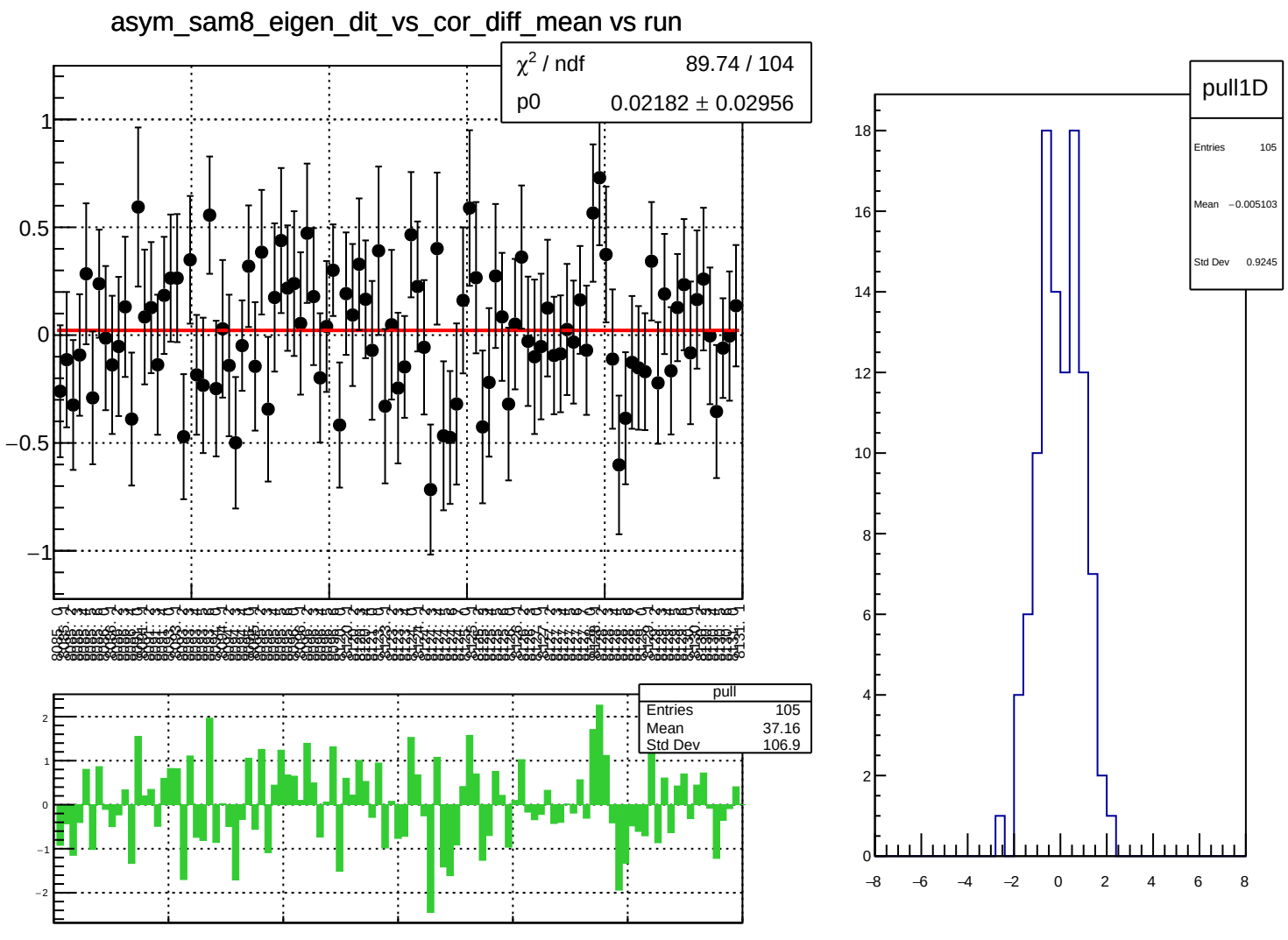

asym_sam8_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.74 / 104
p0 0.02182 ± 0.02956
pull
Entries 105
Mean 37.17
Std Dev 106.9
pull1D
Entries 105
Mean −0.005103
Std Dev 0.9245

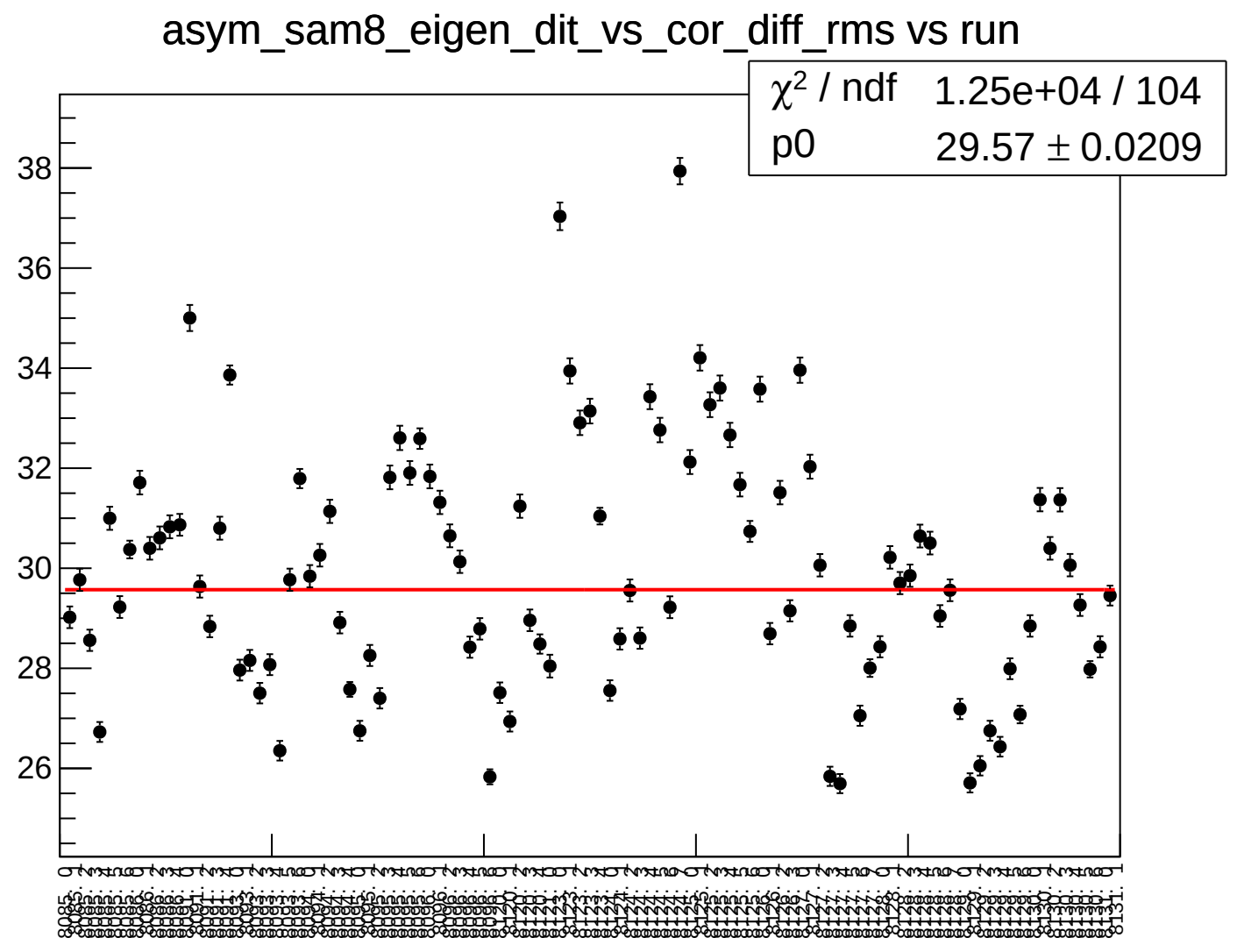

asym_sam8_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.249e+04 / 104
p0 29.57 ± 0.0209
38
36
34
32
30
28
26

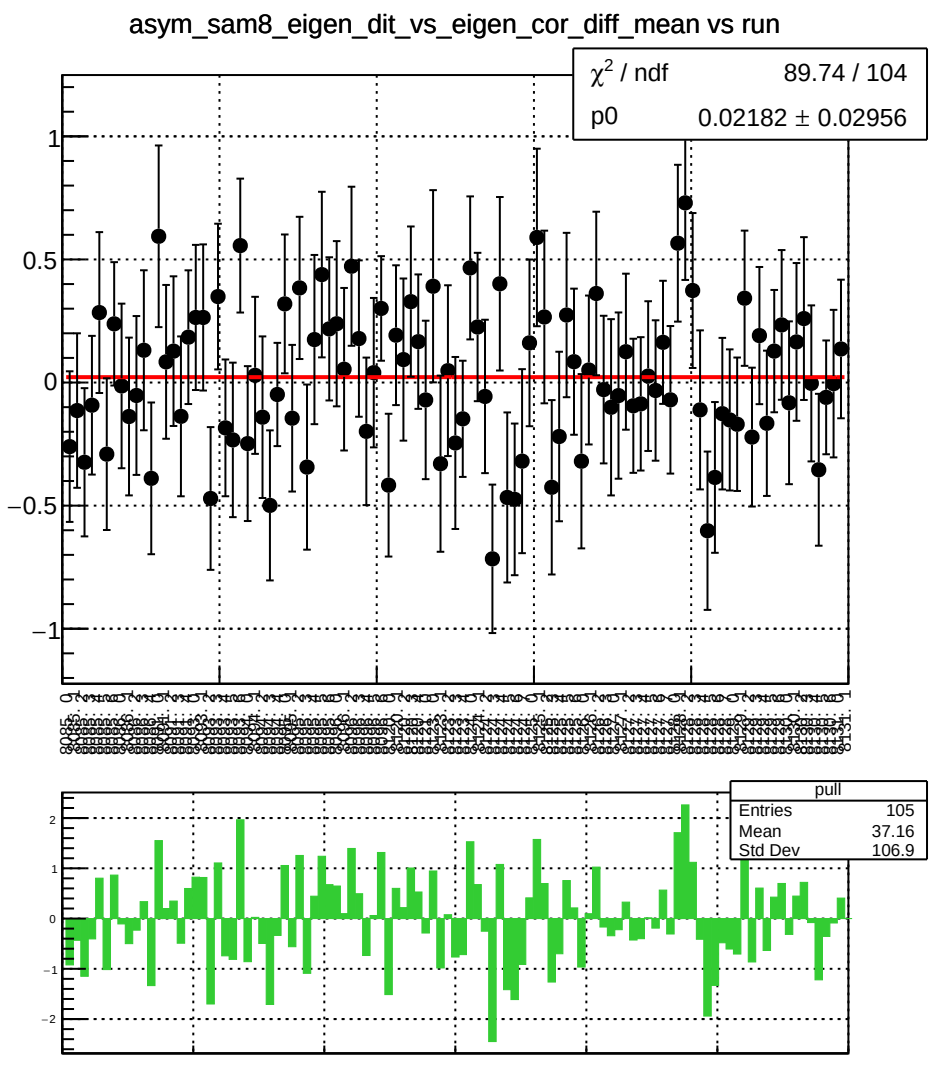

asym_sam8_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 84.73 / 104
p0 −1.295e−06 ± 7.578e−07
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 105
Mean 303.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

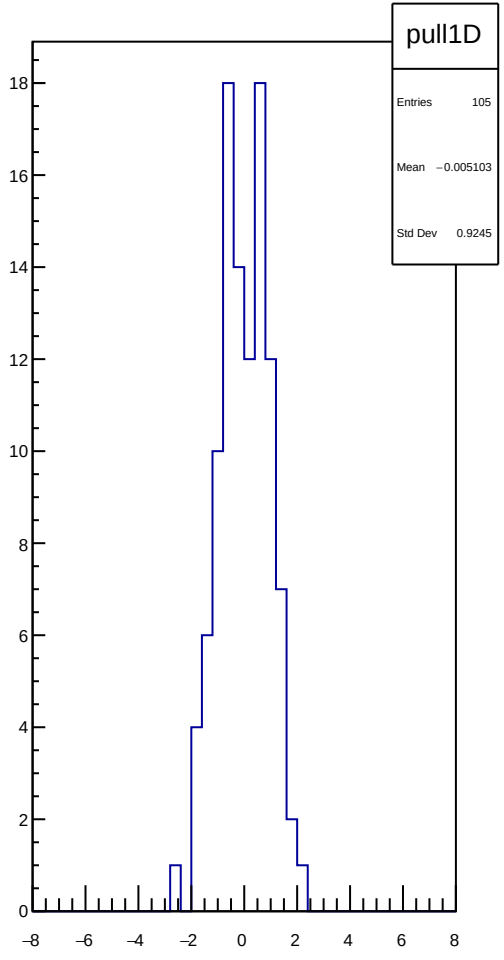

pull1D
Entries 105
Mean 0.006553
Std Dev 0.8983
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

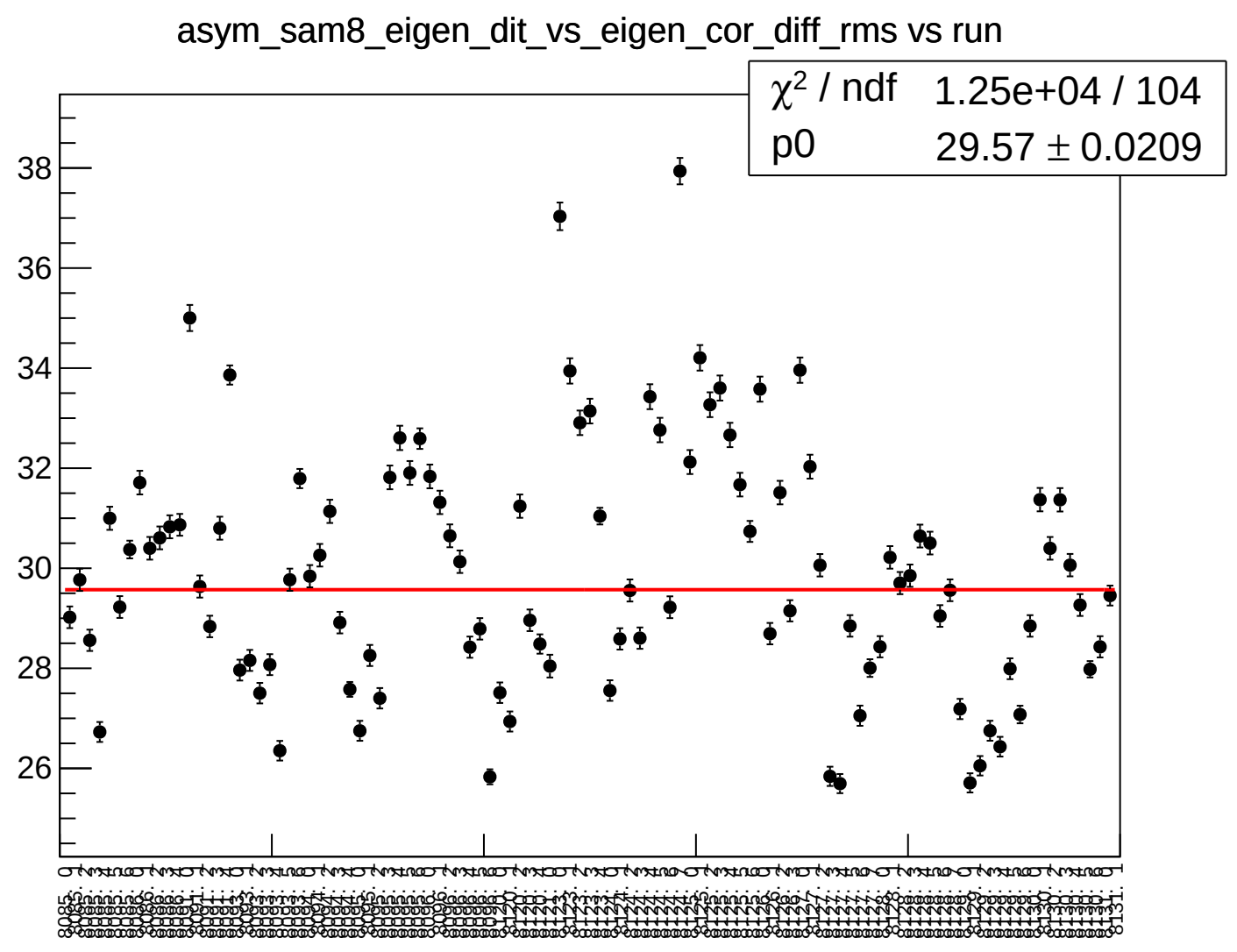

asym_sam8_eigen_dit_vs_dit_diff_rms vs run
×10⁻³
χ² / ndf 1.836e+04 / 104
p0 0.0007571 ± 5.359e−07
0.9
0.85
0.8
0.75
0.7
0.65

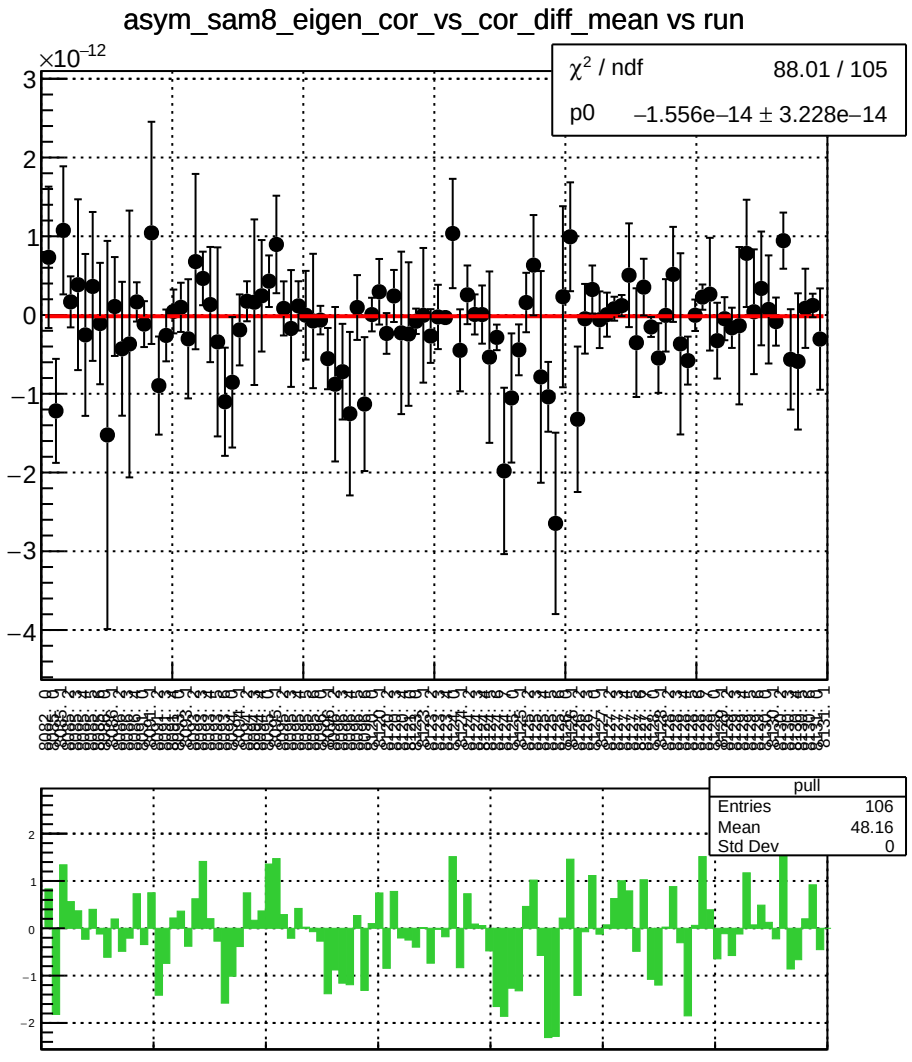

asym_sam8_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.74 / 104
p0 0.02182 ± 0.02956
pull
Entries 105
Mean 37.16
Std Dev 106.9
pull1D
Entries 105
Mean −0.005103
Std Dev 0.9245

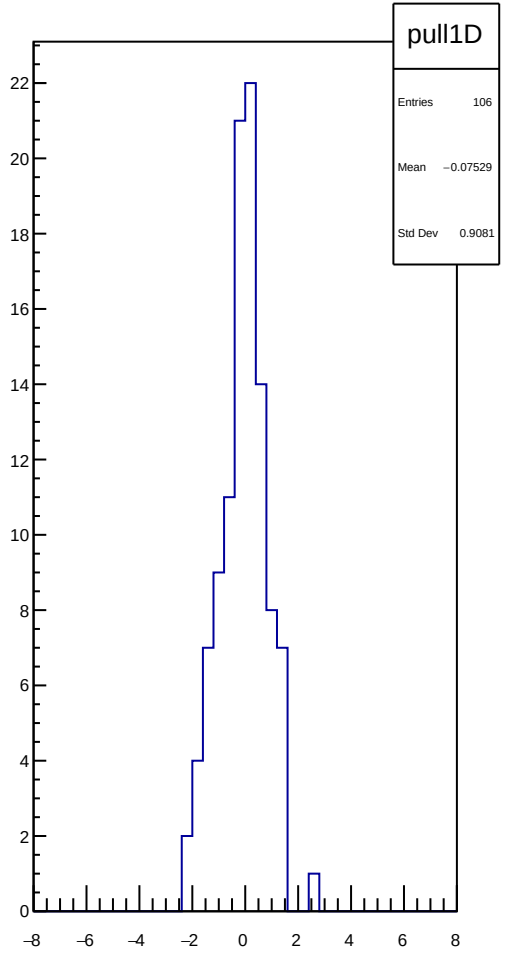

asym_sam8_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.25e+04 / 104
p0 29.57 ± 0.0209
38
36
34
32
30
28
26

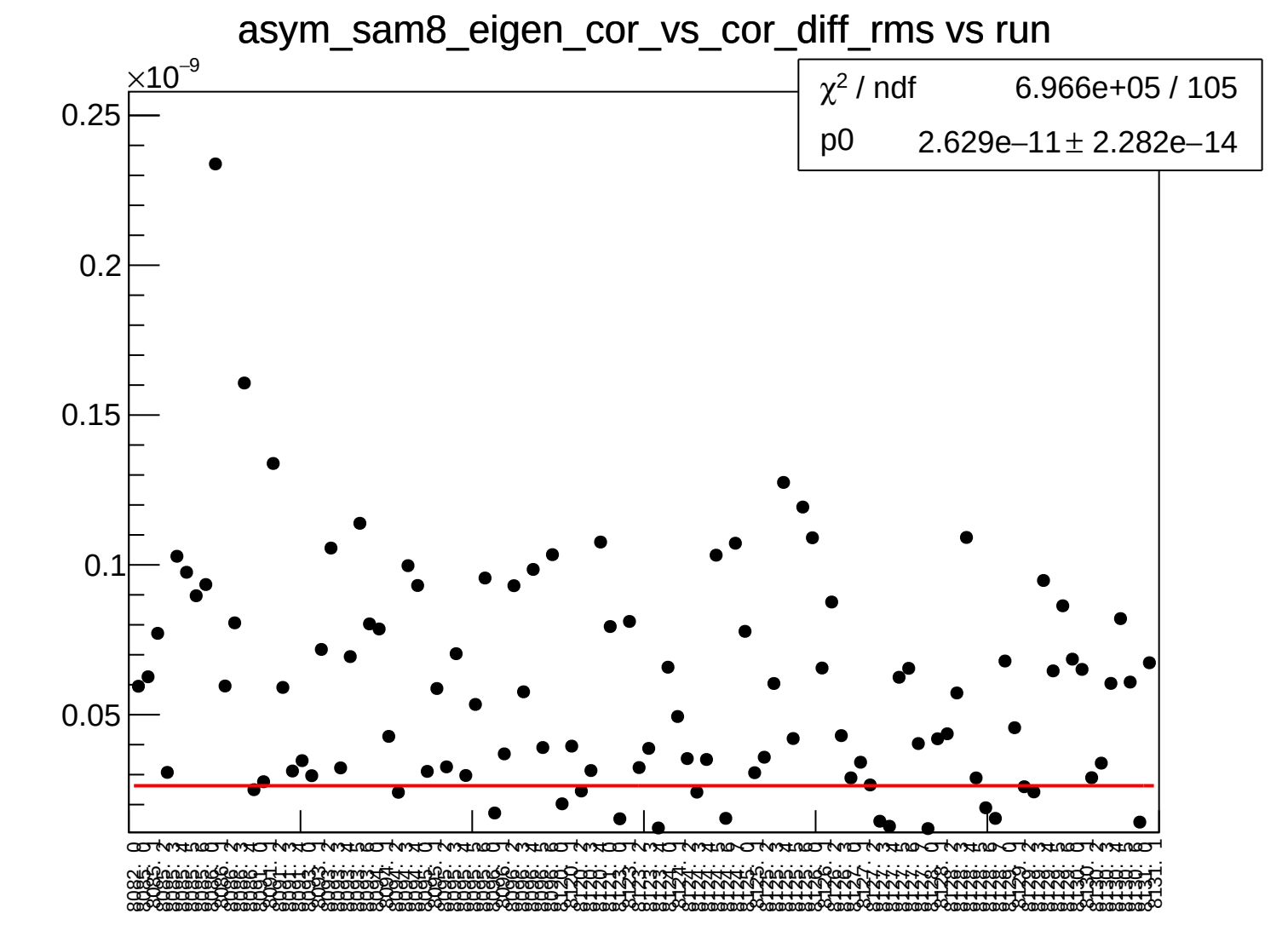

asym_sam8_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.74 / 104
p0 0.02182 ± 0.02956
pull
Entries 105
Mean 37.16
Std Dev 106.9

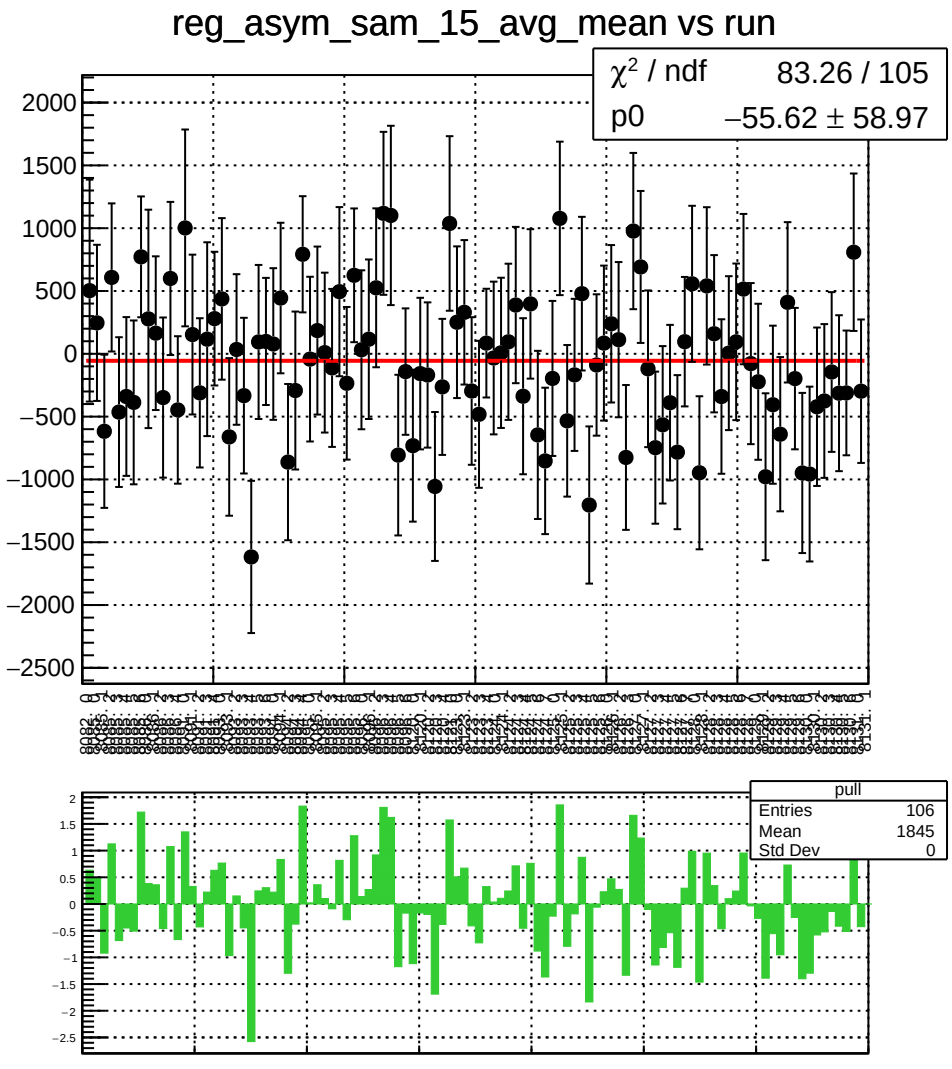

pull1D
Entries 105
Mean −0.005103
Std Dev 0.9245

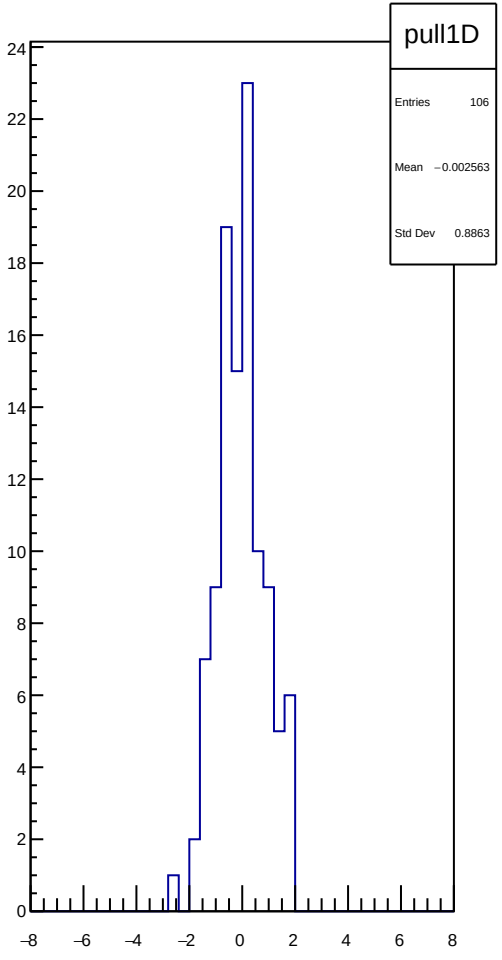

asym_sam8_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.25e+04 / 104
p0 29.57 ± 0.0209
38
36
34
32
30
28
26

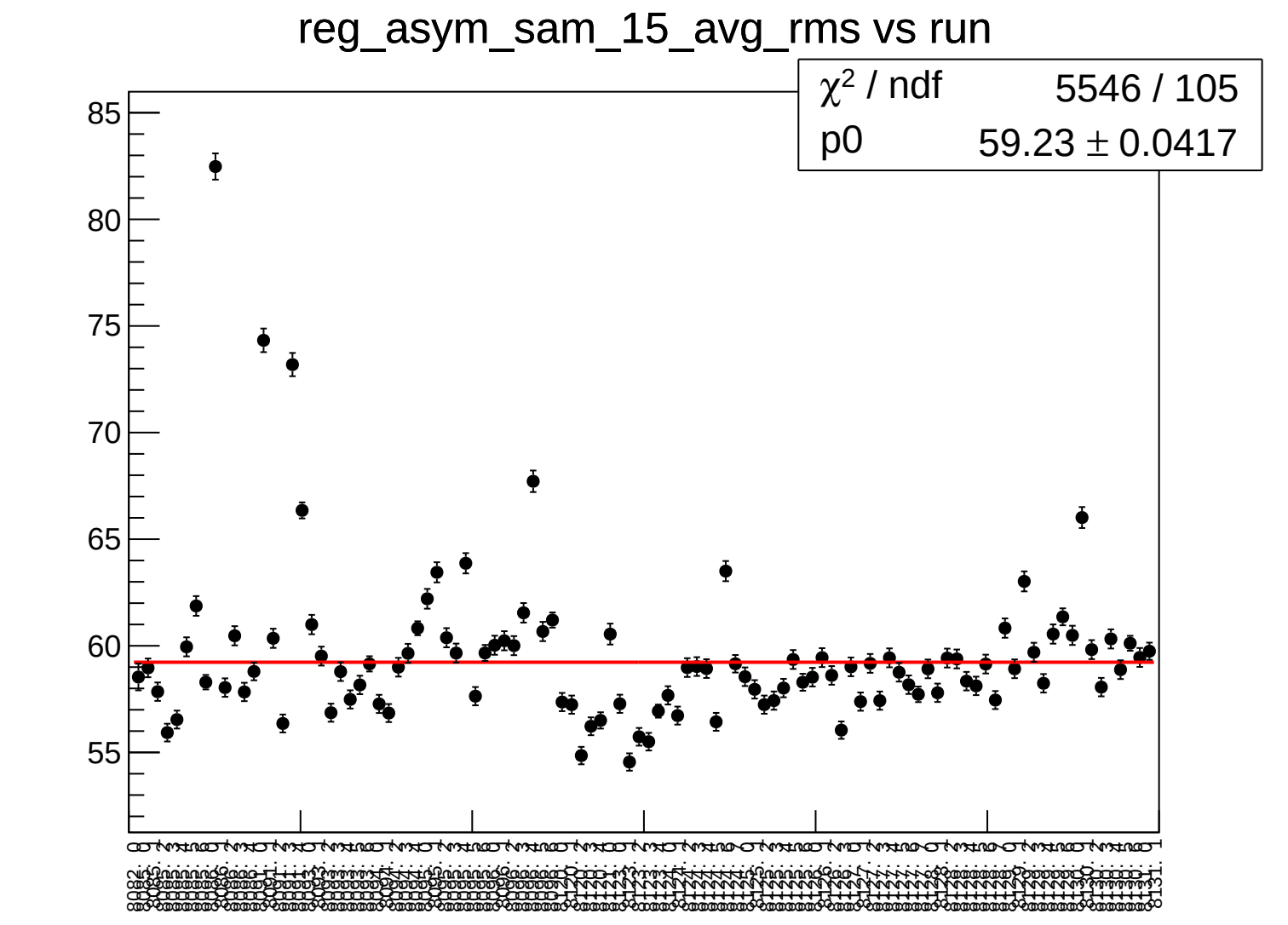

asym_sam8_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.01 / 105
p0 −1.556e−14 ± 3.228e−14
pull
Entries 106
Mean 48.16
Std Dev 0

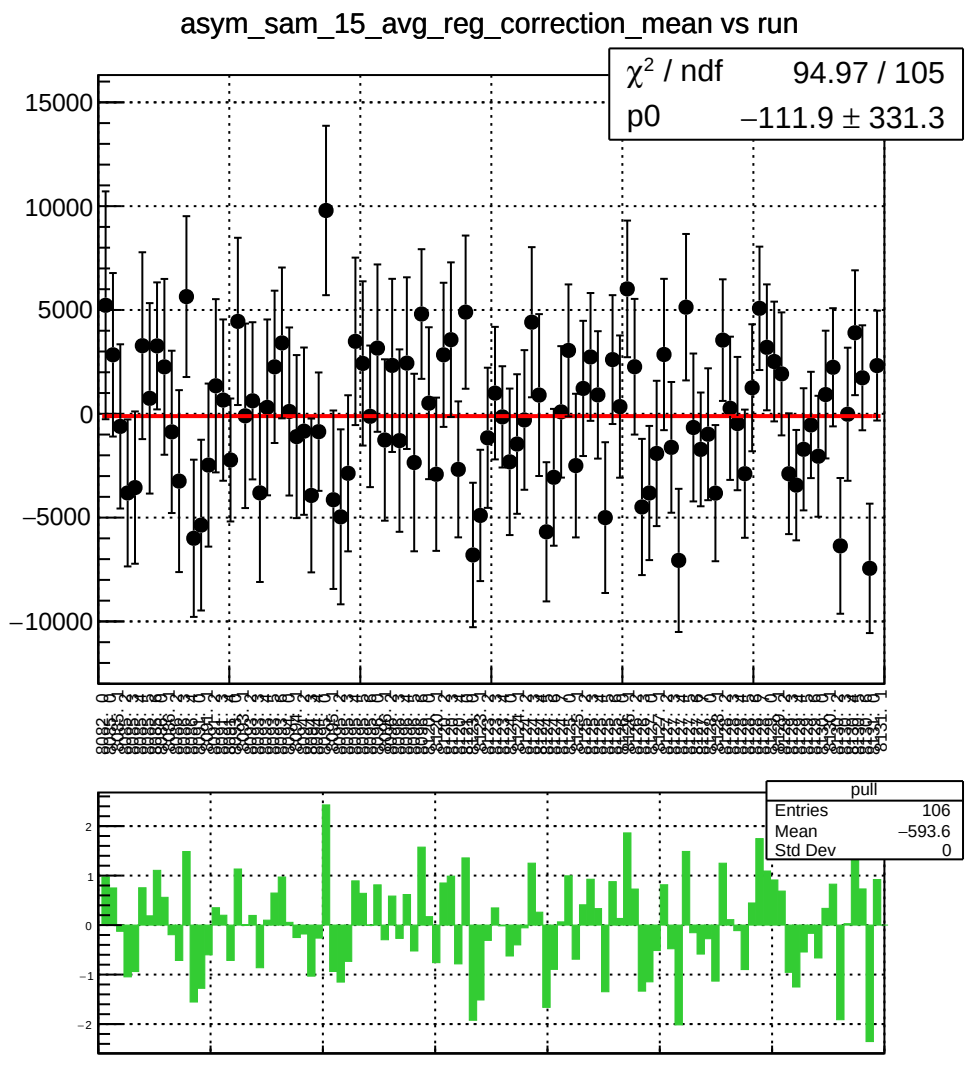

pull1D
Entries 106
Mean −0.07529
Std Dev 0.9081

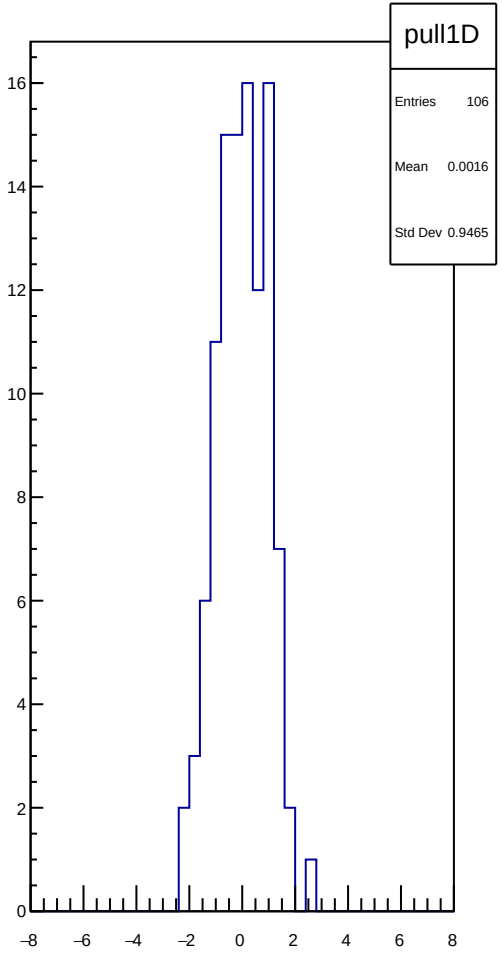

asym_sam8_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.25
0.2
0.15
0.1
0.05
χ² / ndf 6.966e+05 / 105
p0 2.629e−11 ± 2.282e−14

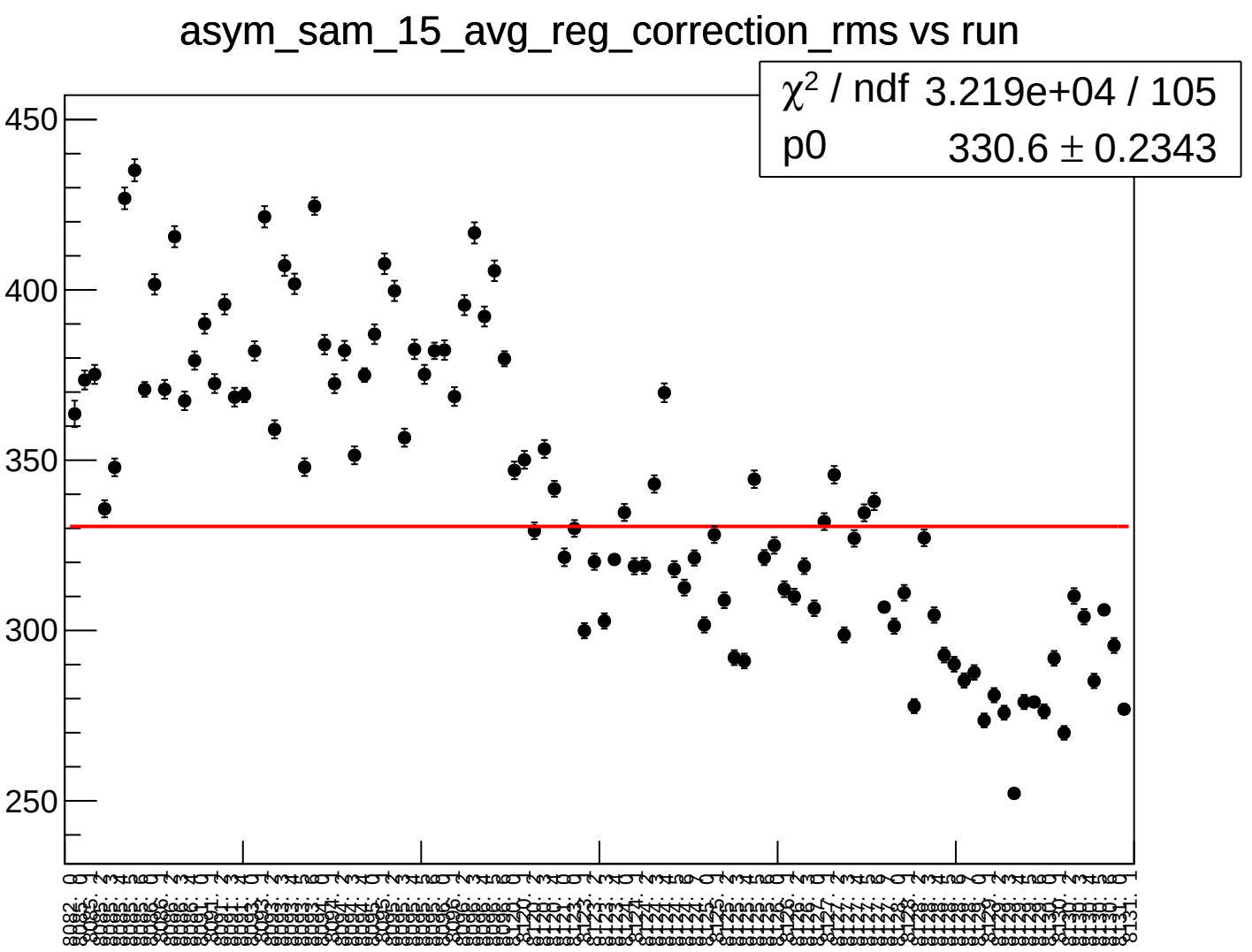

reg_asym_sam_15_avg_mean vs run
χ² / ndf 83.26 / 105
p0 −55.62 ± 58.97
pull
Entries 106
Mean 1845
Std Dev 0

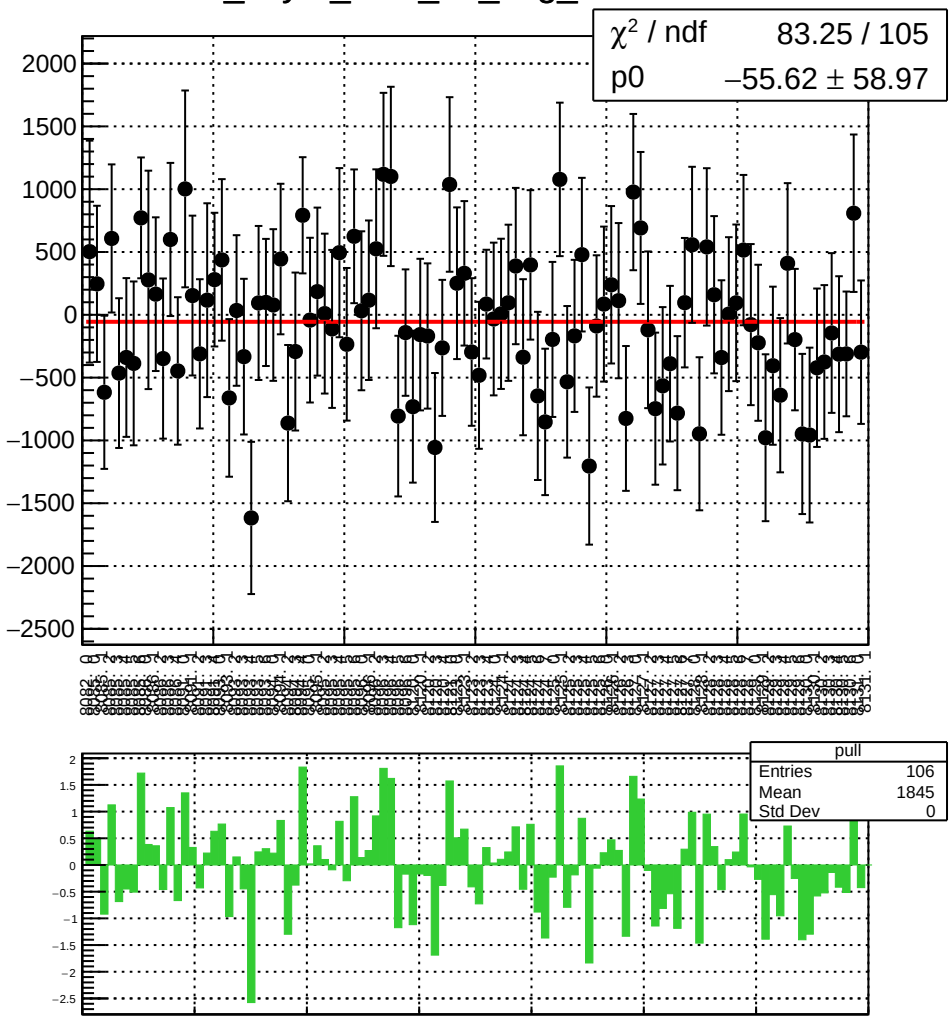

pull1D
Entries 106
Mean −0.002563
Std Dev 0.8863

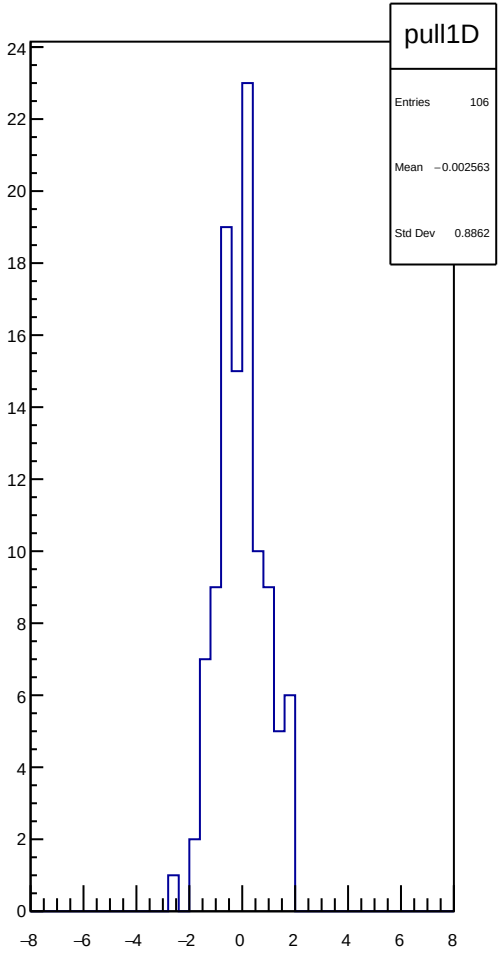

reg_asym_sam_15_avg_rms vs run
$\chi^2$ / ndf 5546 / 105
p0 59.23 ± 0.0417
85
80
75
70
65
60
55

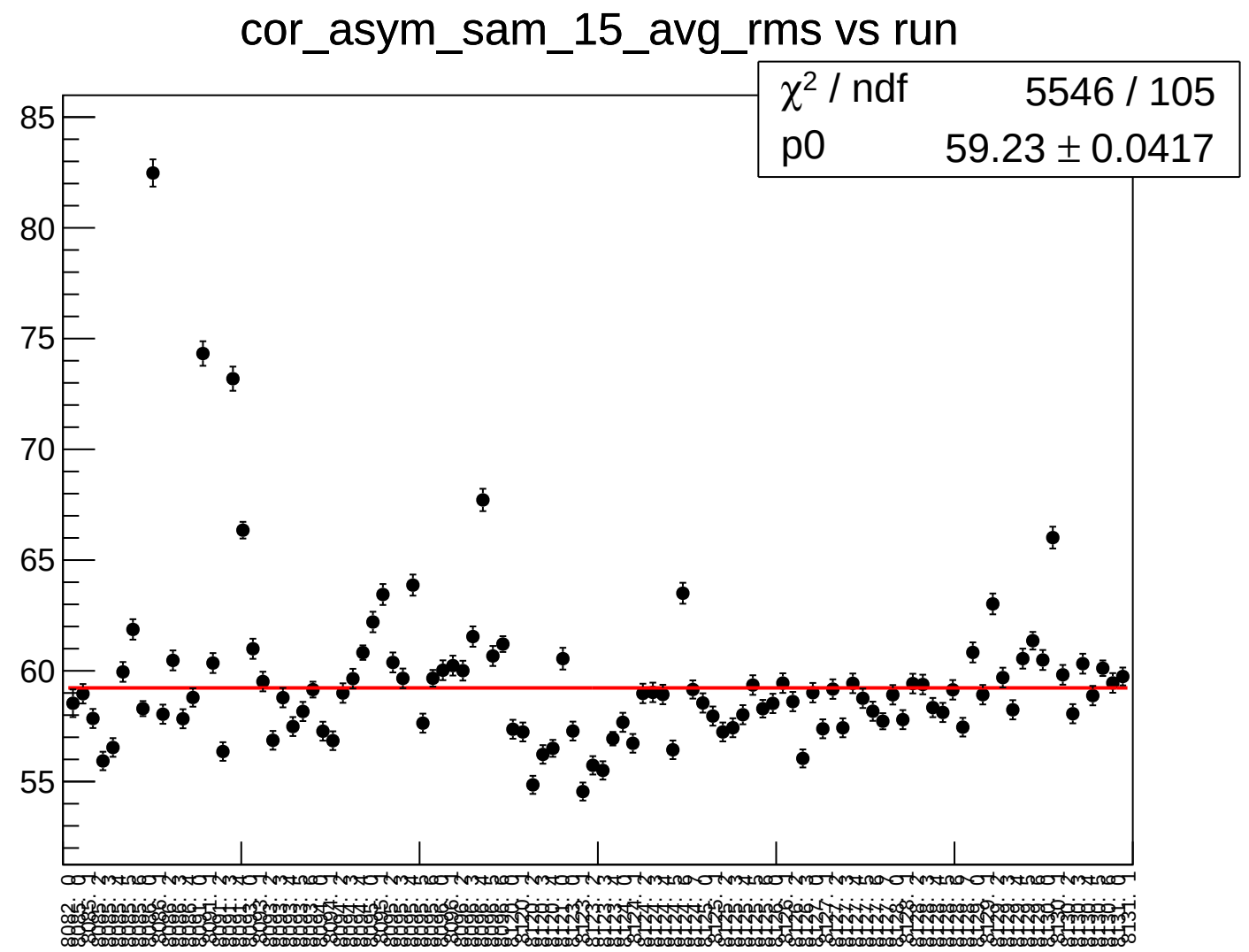

asym_sam_15_avg_reg_correction_mean vs run
χ² / ndf 94.97 / 105
p0 −111.9 ± 331.3
15000
10000
5000
0
−5000
−10000
pull
Entries 106
Mean −593.6
Std Dev 0
2
1
0
−1
−2

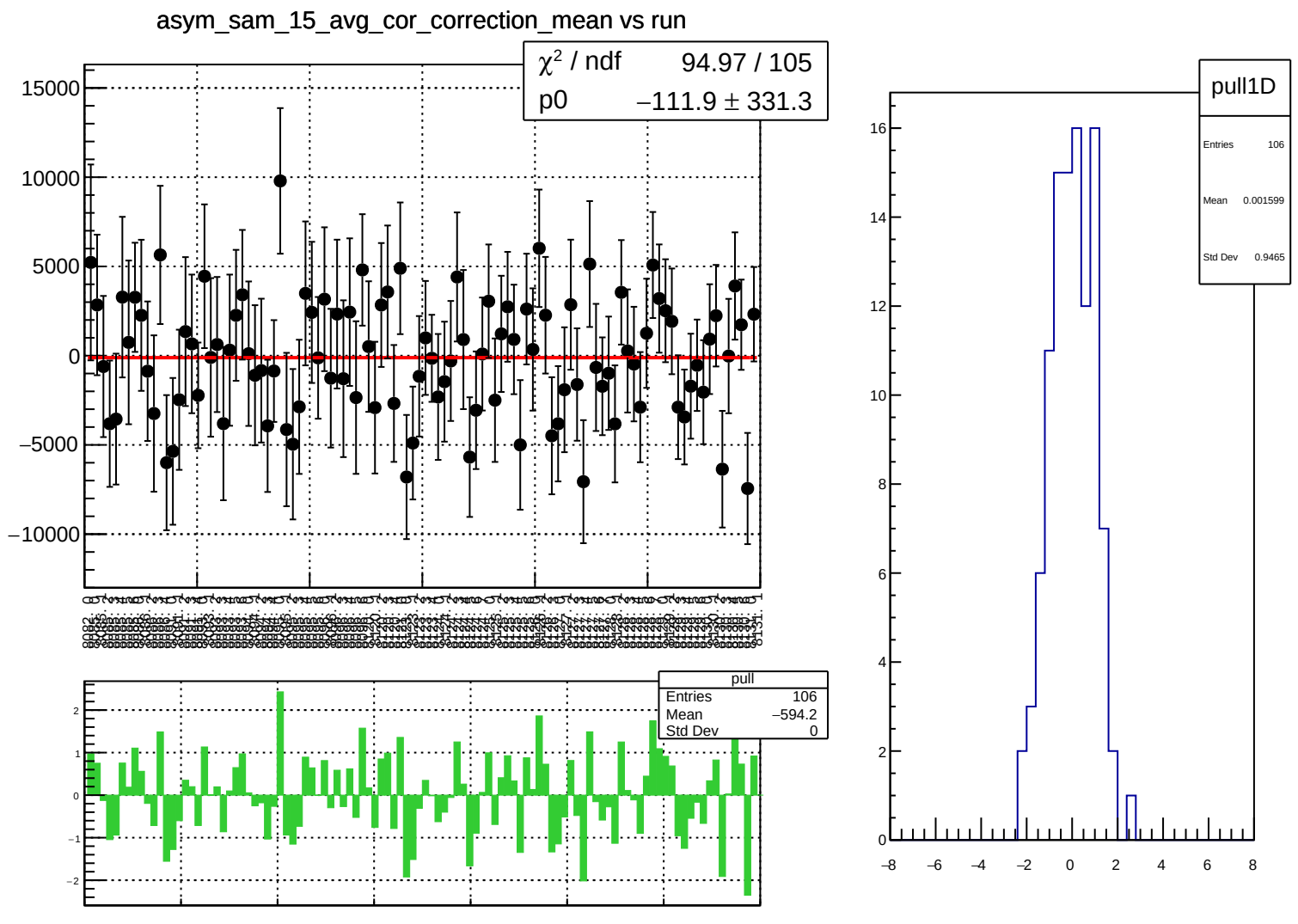

pull1D
Entries 106
Mean 0.0016
Std Dev 0.9465
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

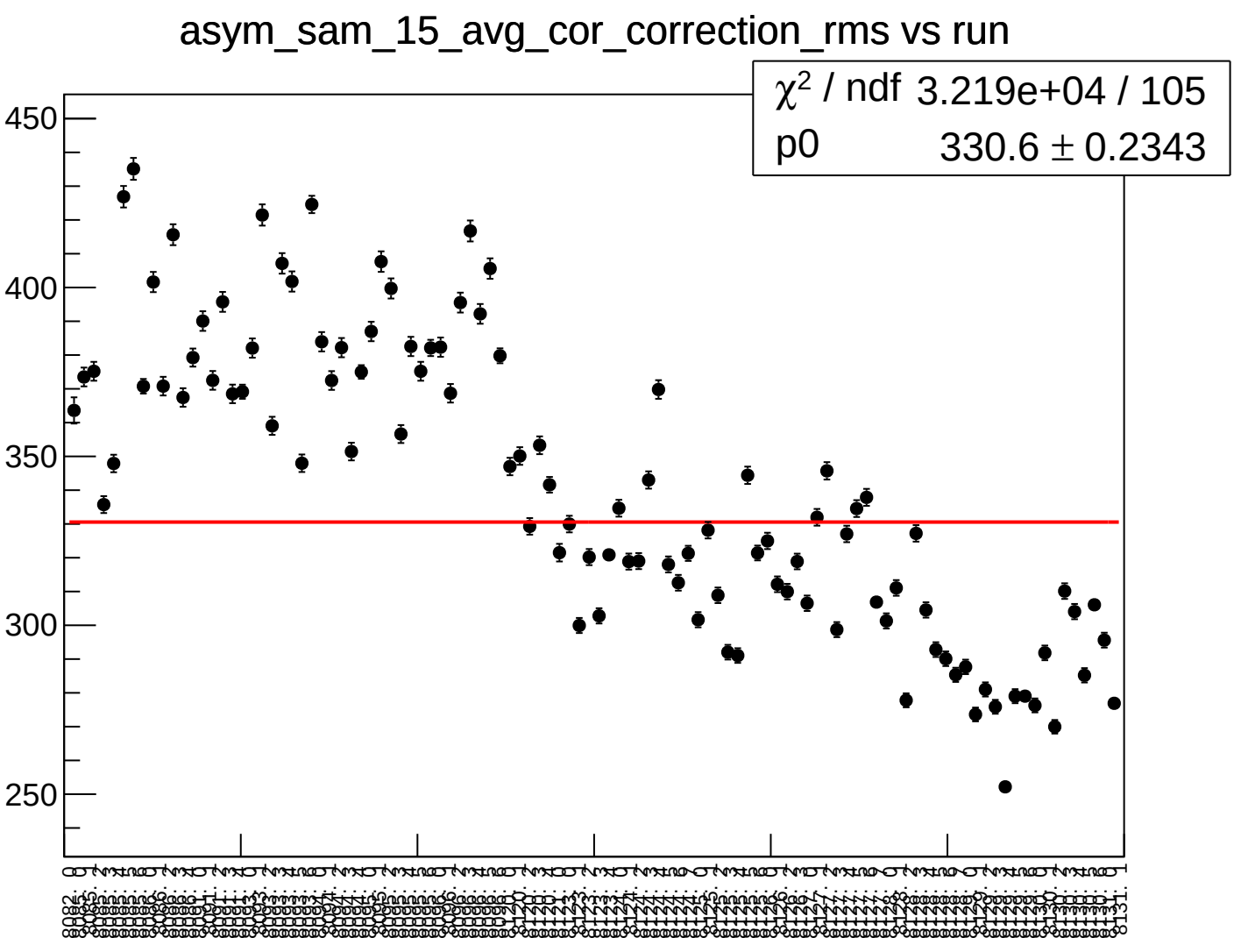

asym_sam_15_avg_reg_correction_rms vs run
χ² / ndf 3.219e+04 / 105
p0 330.6 ± 0.2343
450
400
350
300
250

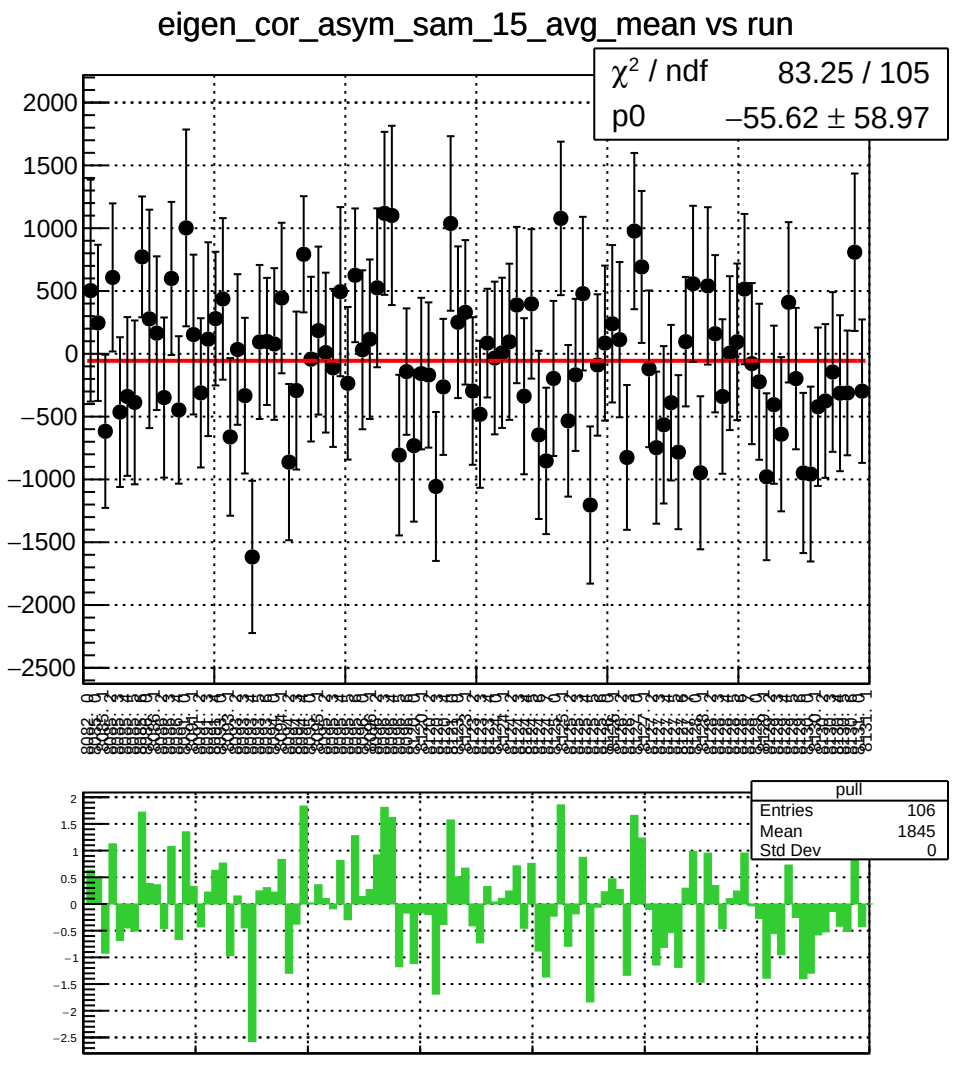

cor_asym_sam_15_avg_mean vs run
χ² / ndf 83.25 / 105
p0 −55.62 ± 58.97
pull
Entries 106
Mean 1845
Std Dev 0

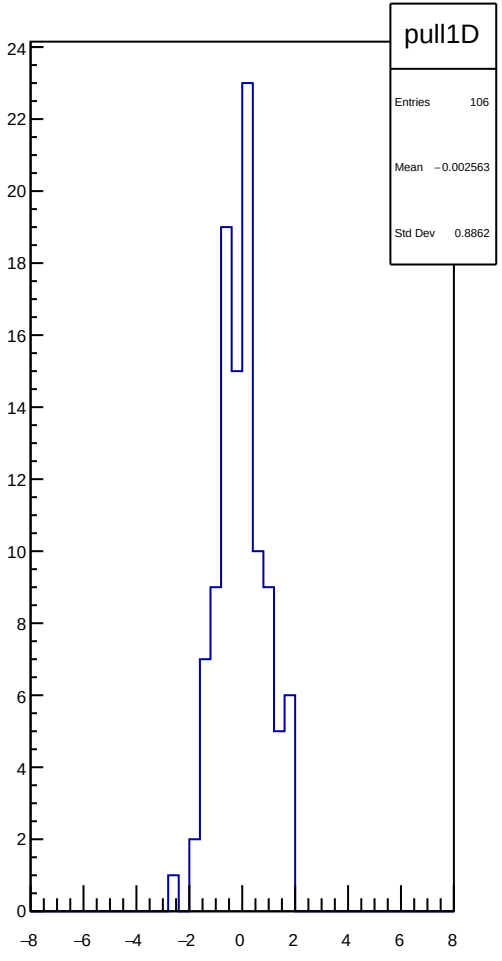

pull1D
Entries 106
Mean −0.002563
Std Dev 0.8862

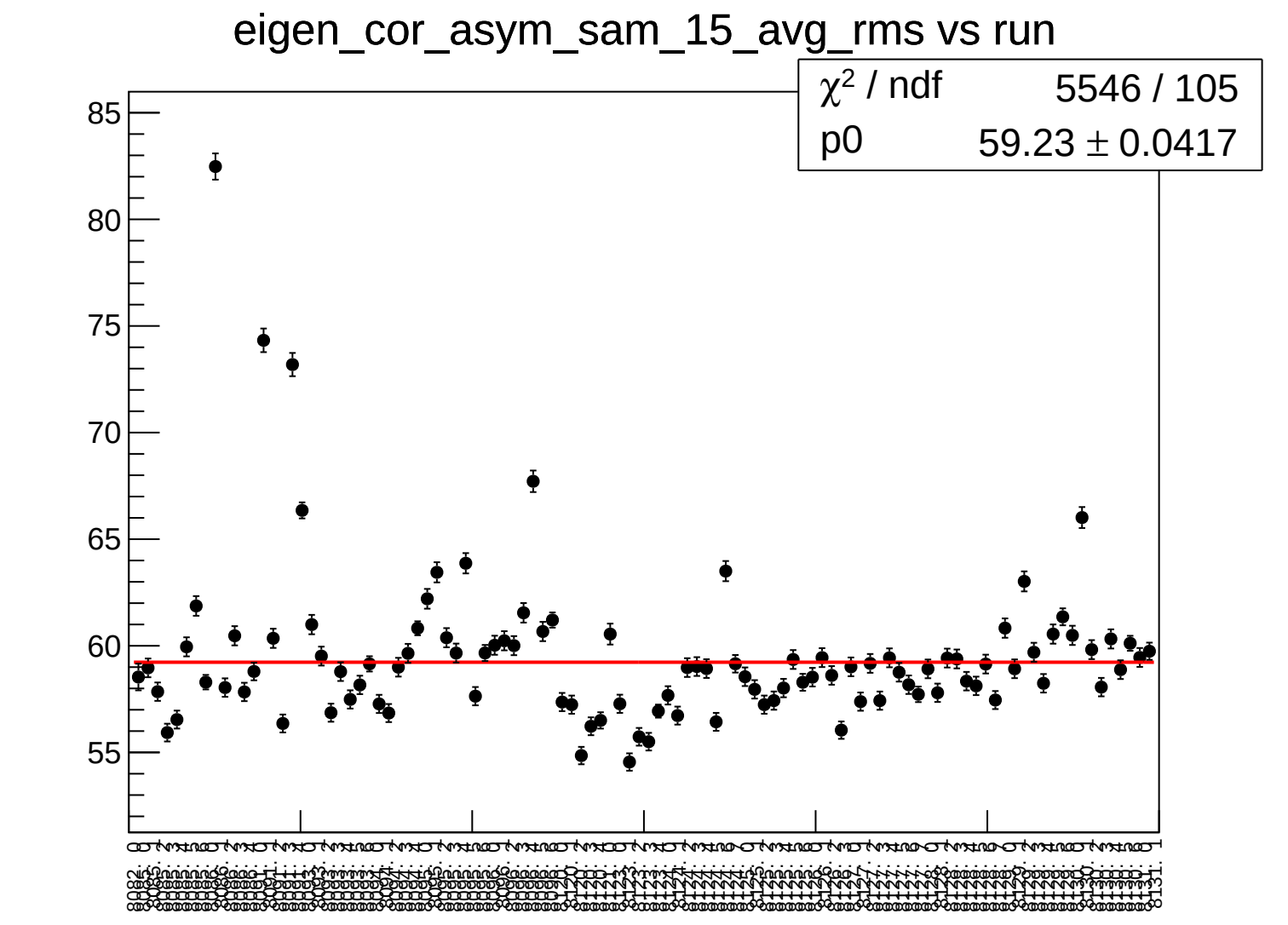

cor_asym_sam_15_avg_rms vs run
χ² / ndf 5546 / 105
p0 59.23 ± 0.0417
85
80
75
70
65
60
55

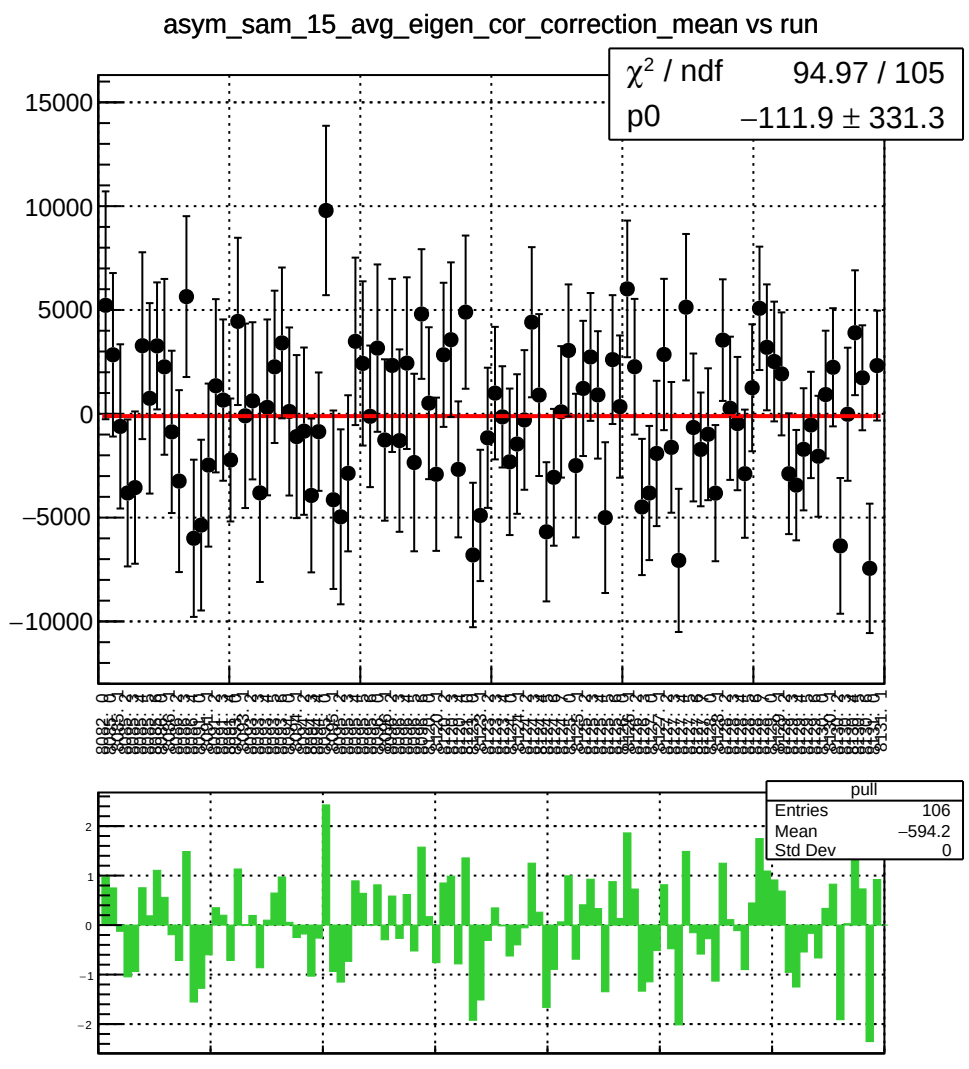

asym_sam_15_avg_cor_correction_mean vs run
χ² / ndf 94.97 / 105
p0 −111.9 ± 331.3
15000
10000
5000
0
−5000
−10000
pull
Entries 106
Mean −594.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 106
Mean 0.001599
Std Dev 0.9465
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

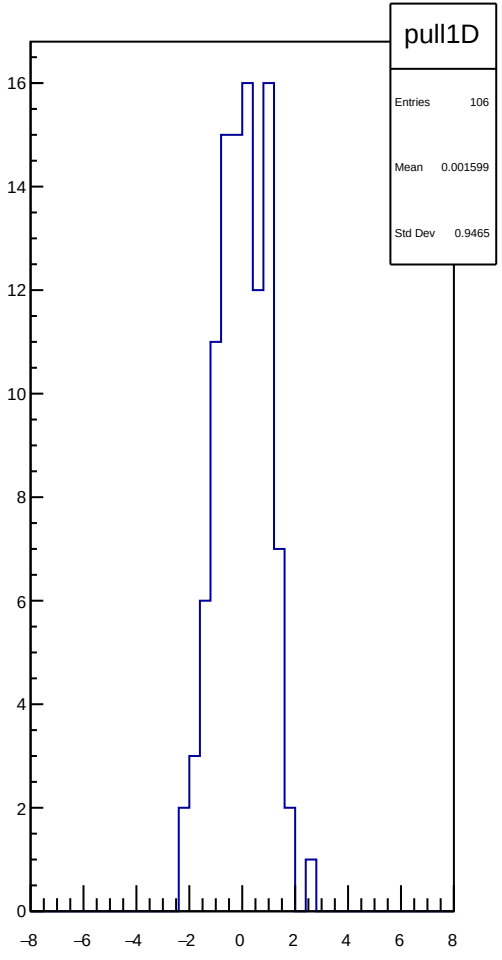

asym_sam_15_avg_cor_correction_rms vs run
$\chi^2$ / ndf 3.219e+04 / 105
p0 330.6 ± 0.2343
450
400
350
300
250

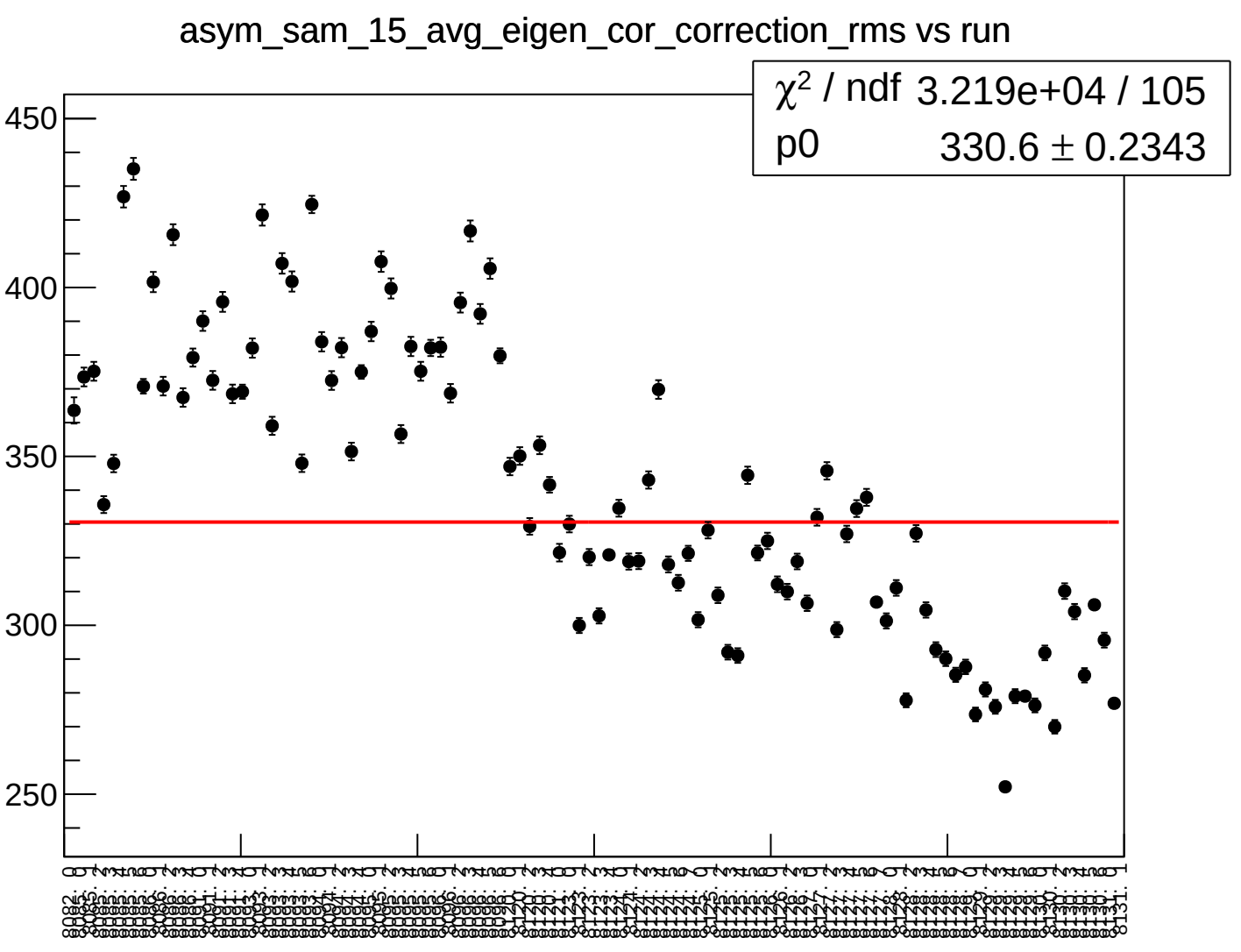

eigen_cor_asym_sam_15_avg_mean vs run
χ² / ndf 83.25 / 105
p0 −55.62 ± 58.97
pull
Entries 106
Mean 1845
Std Dev 0

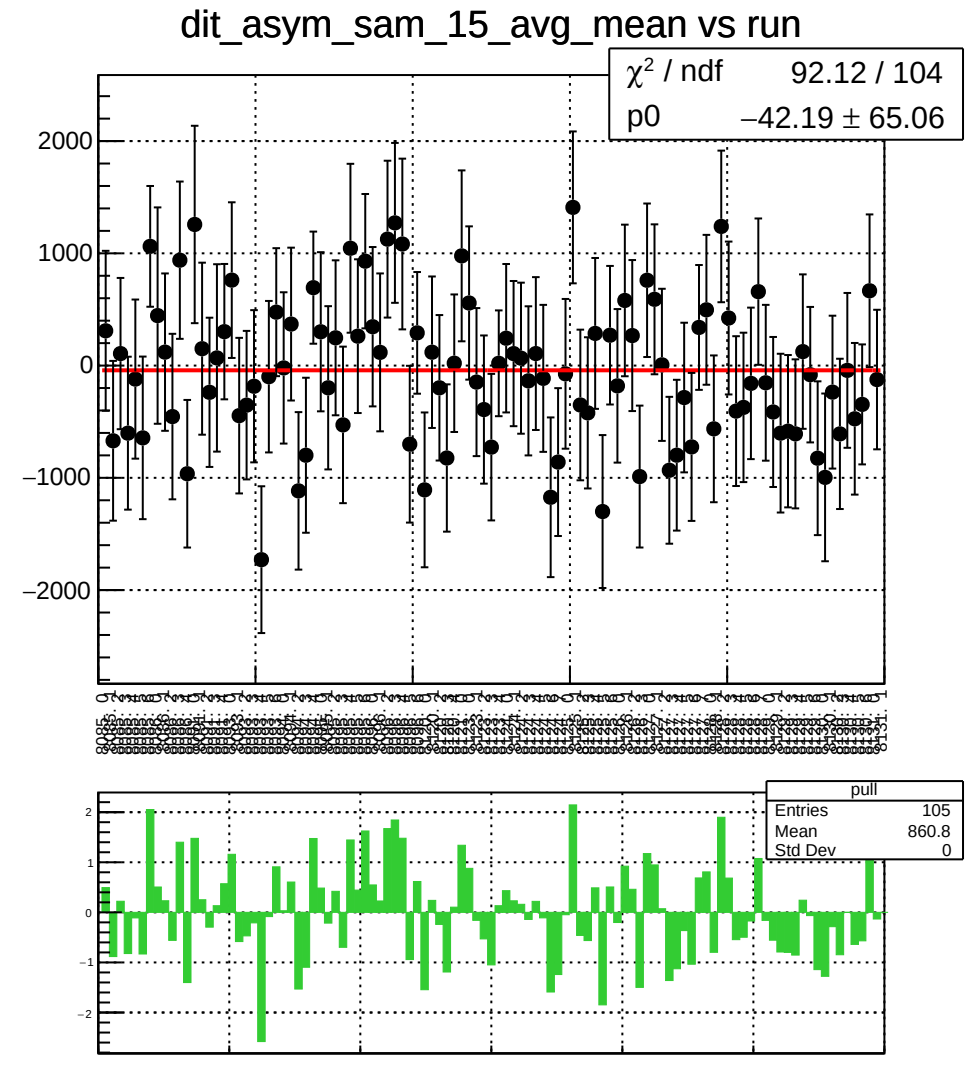

pull1D
Entries 106
Mean −0.002563
Std Dev 0.8862

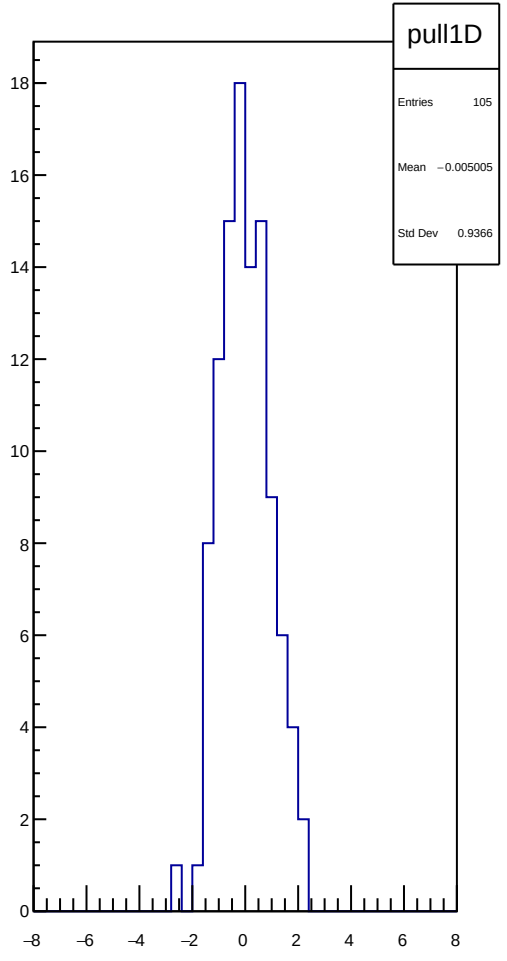

eigen_cor_asym_sam_15_avg_rms vs run
χ² / ndf 5546 / 105
p0 59.23 ± 0.0417
85
80
75
70
65
60
55

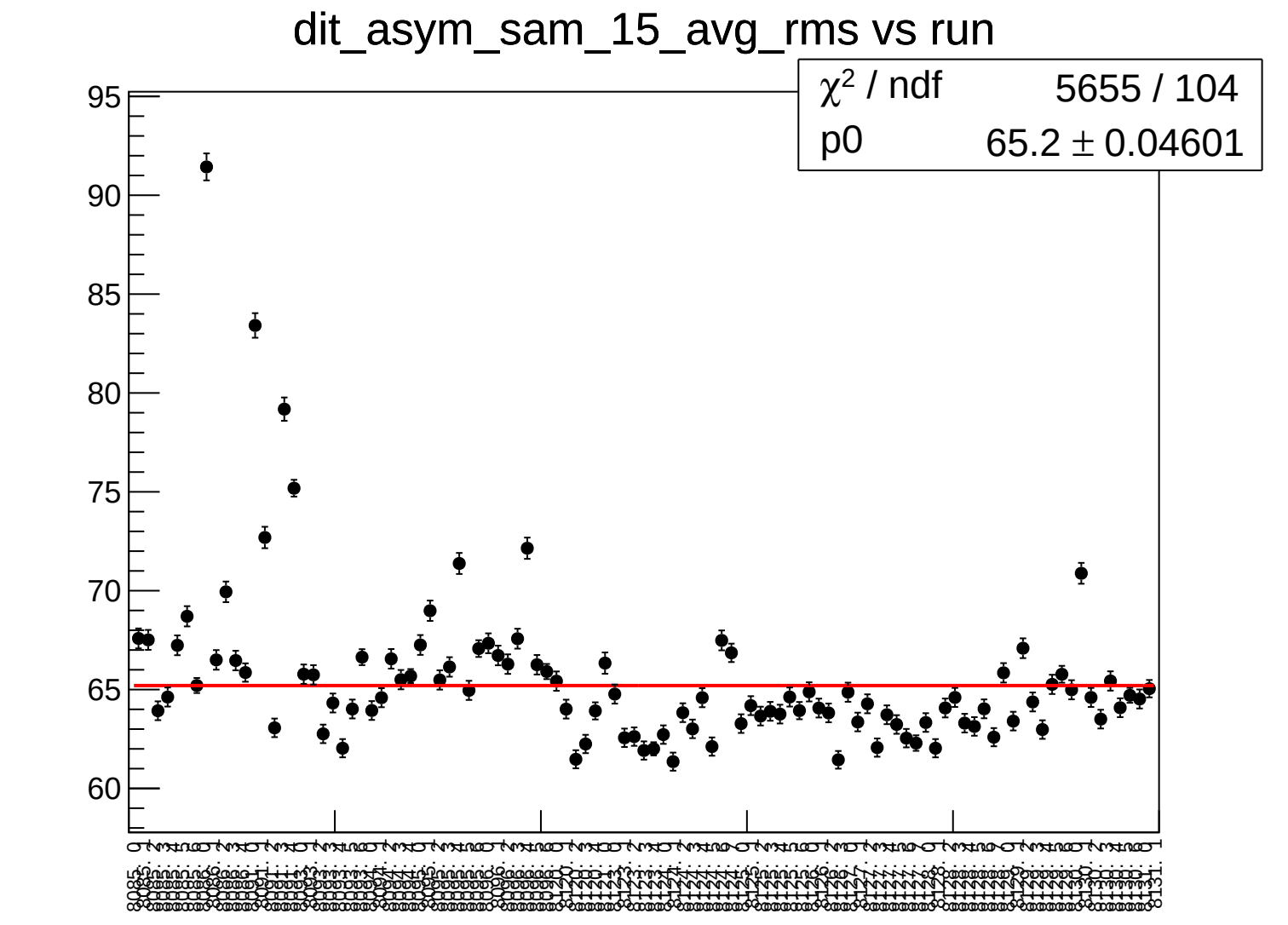

asym_sam_15_avg_eigen_cor_correction_mean vs run
χ² / ndf 94.97 / 105
p0 −111.9 ± 331.3
15000
10000
5000
0
−5000
−10000
pull
Entries 106
Mean −594.2
Std Dev 0
2
1
0
−1
−2

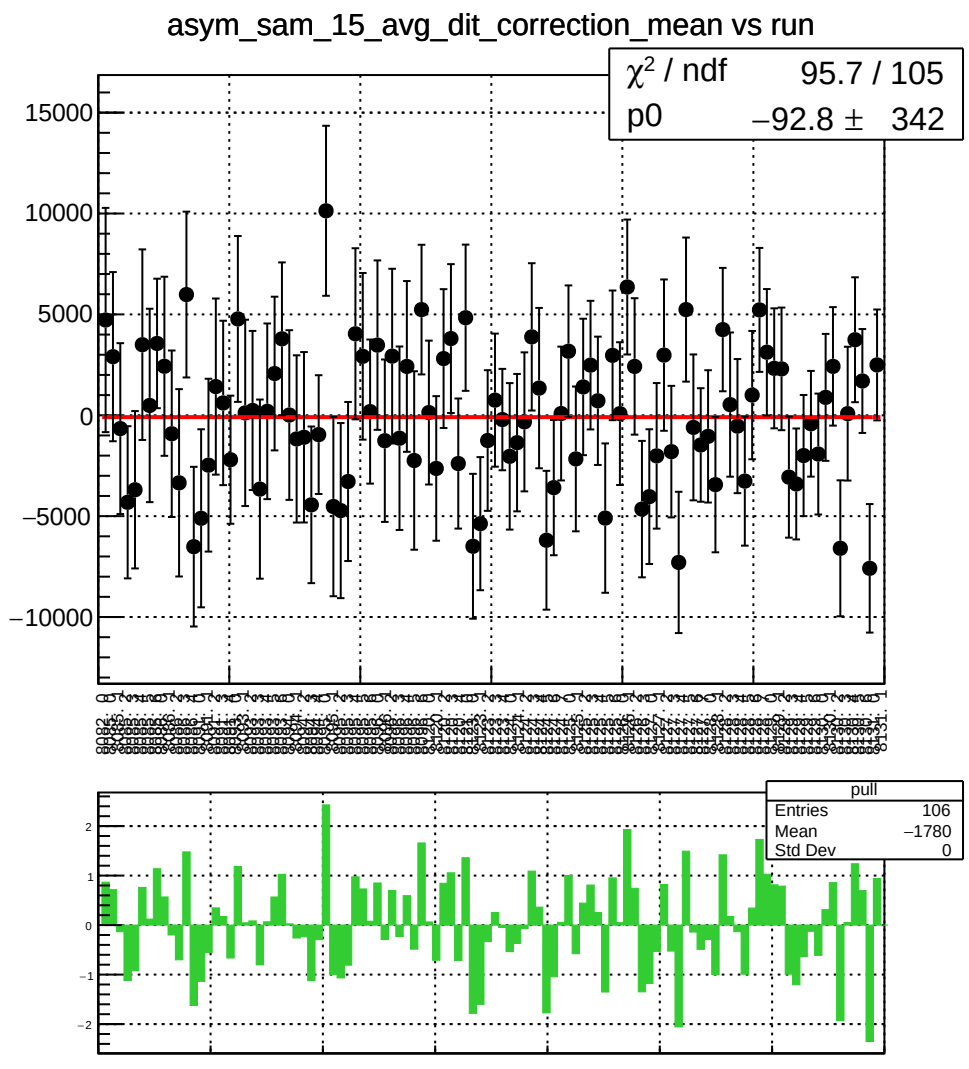

pull1D
Entries 106
Mean 0.001599
Std Dev 0.9465
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

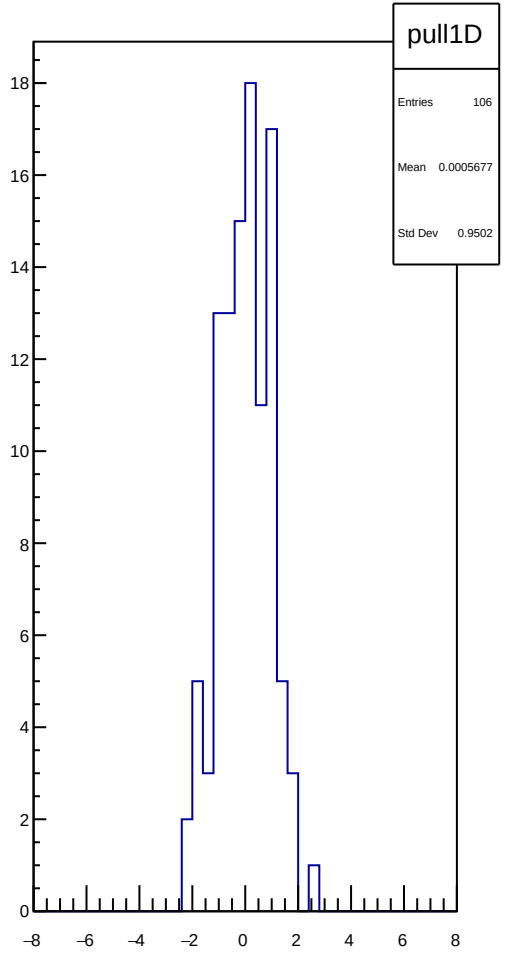

asym_sam_15_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.219e+04 / 105
p0 330.6 ± 0.2343
450
400
350
300
250

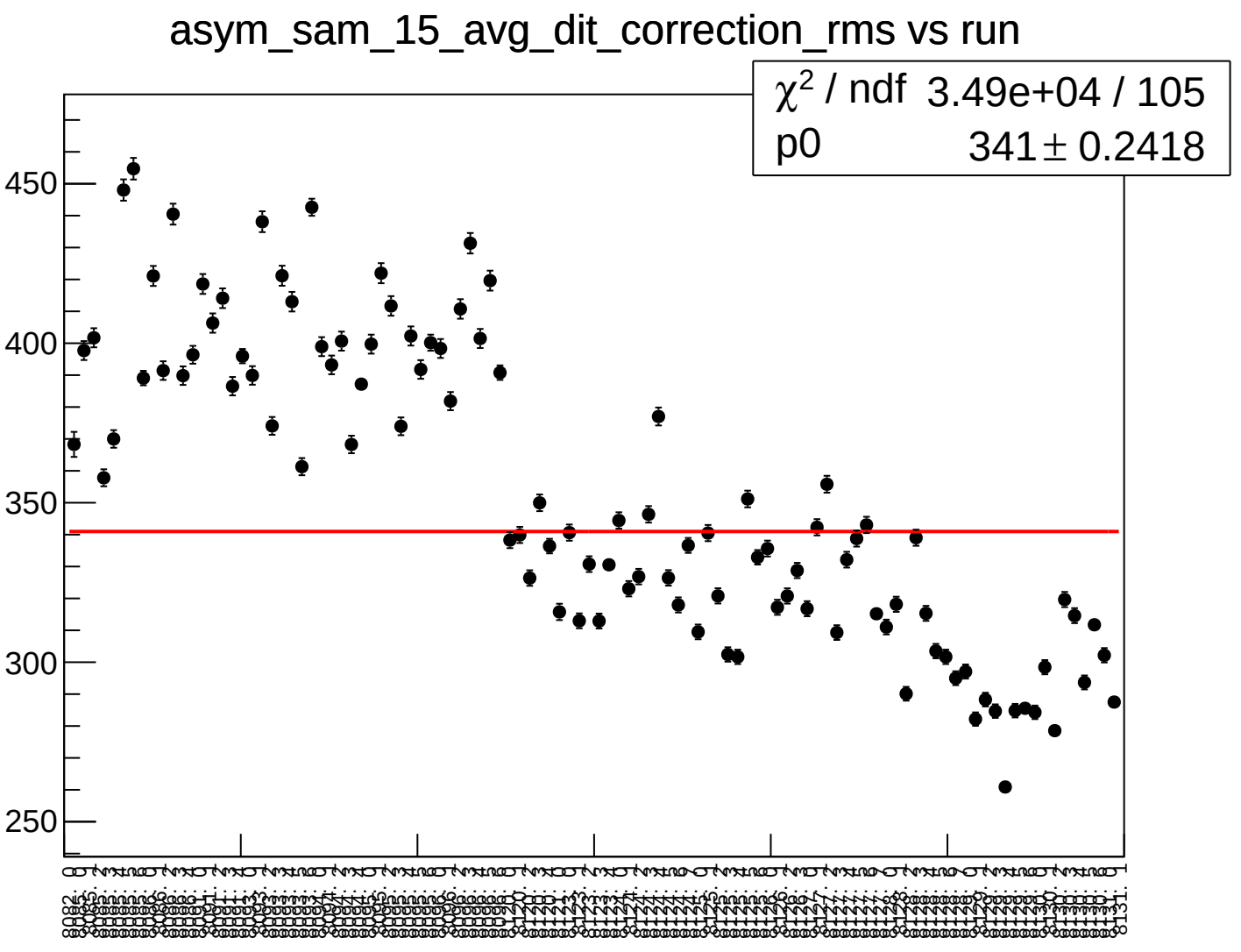

dit_asym_sam_15_avg_mean vs run
χ² / ndf 92.12 / 104
p0 −42.19 ± 65.06
2000
1000
0
−1000
−2000
pull
Entries 105
Mean 860.8
Std Dev 0
2
1
0
−1
−2

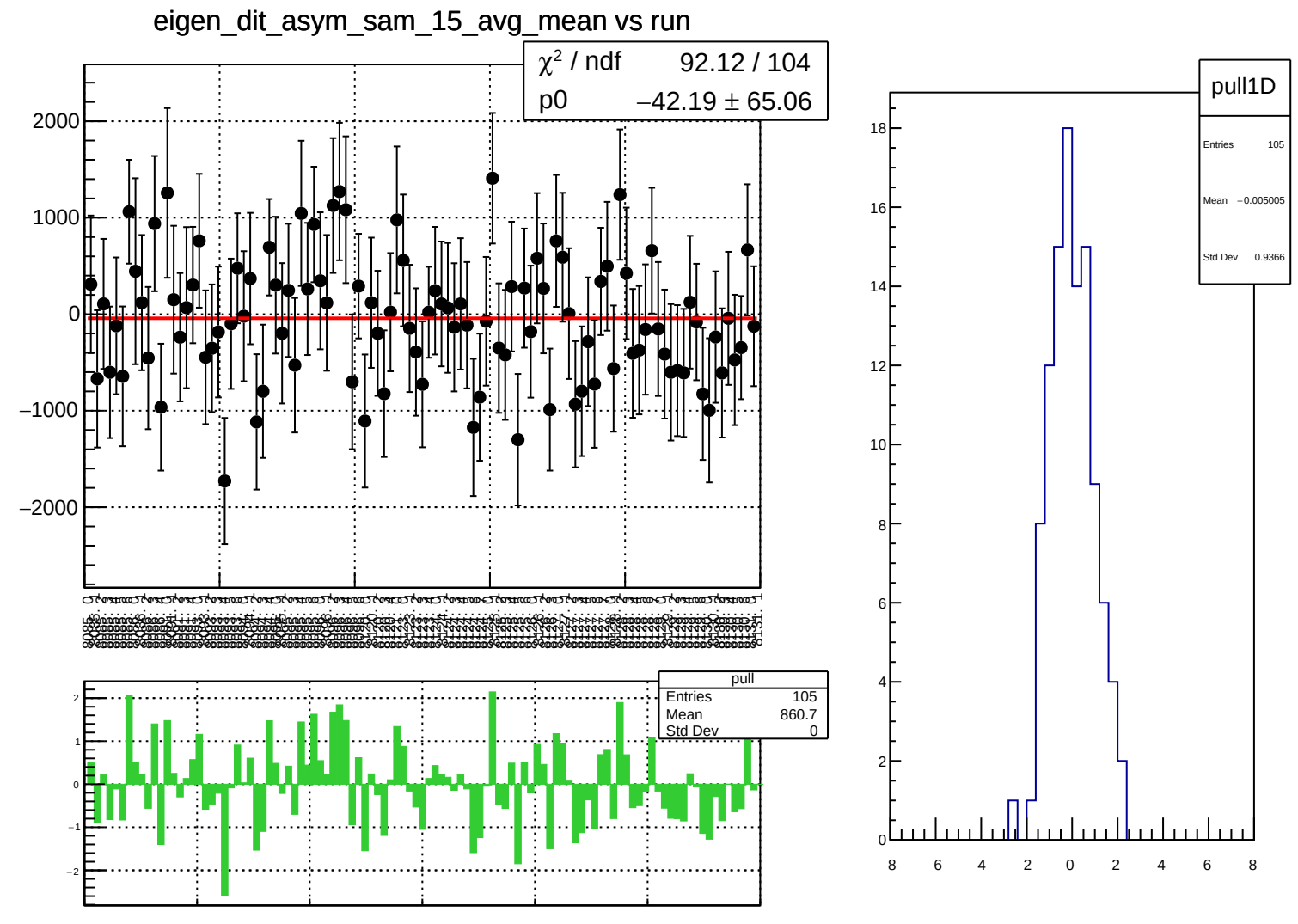

pull1D
Entries 105
Mean −0.005005
Std Dev 0.9366
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

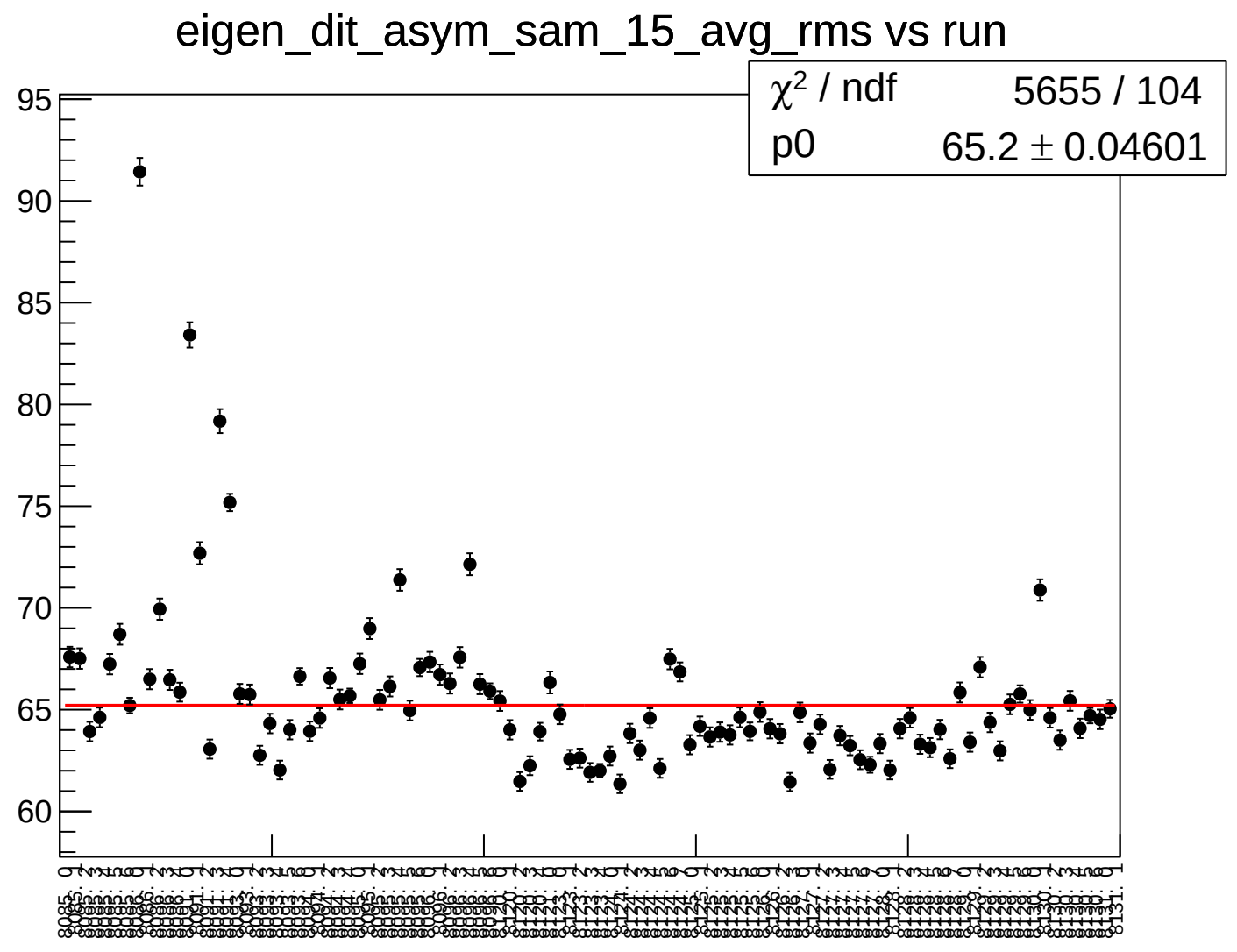

dit_asym_sam_15_avg_rms vs run
$\chi^2$ / ndf 5655 / 104
p0 65.2 ± 0.04601
95
90
85
80
75
70
65
60

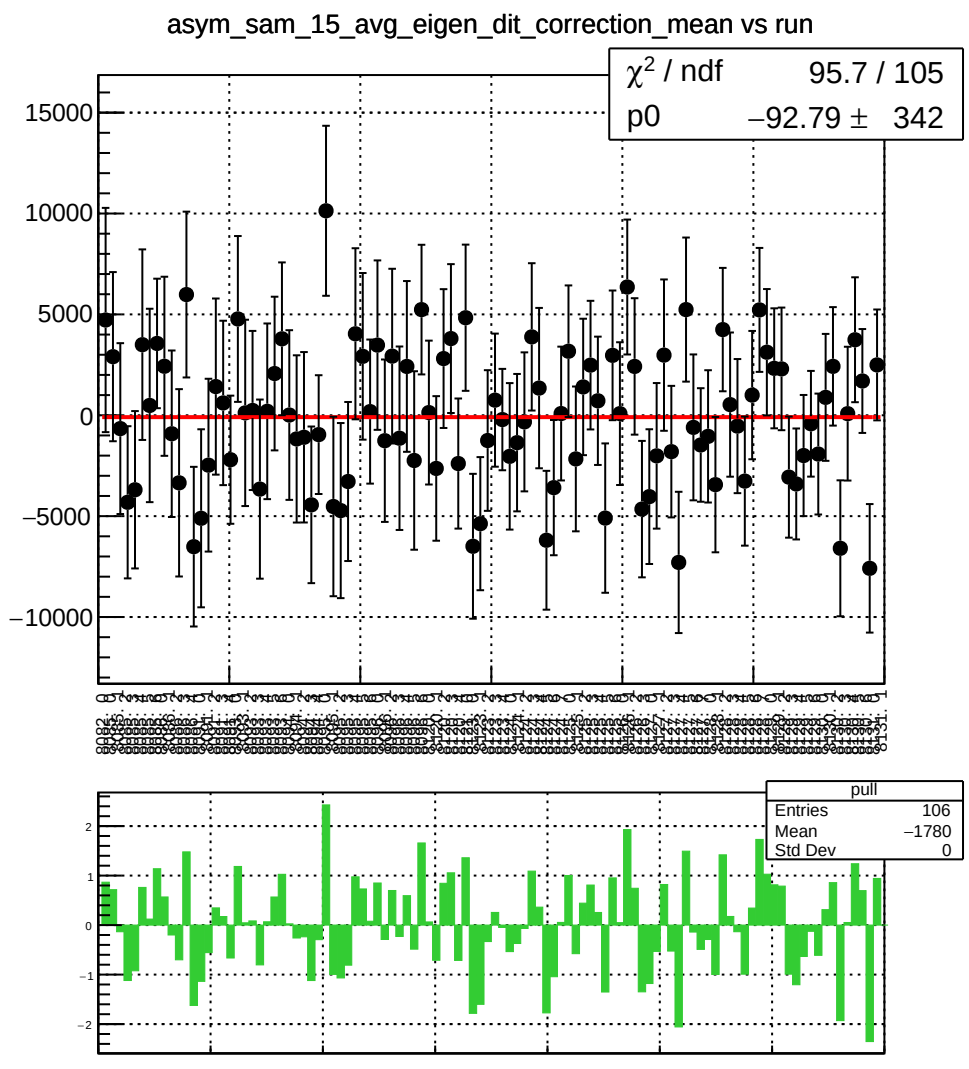

asym_sam_15_avg_dit_correction_mean vs run
χ² / ndf 95.7 / 105
p0 −92.8 ± 342
15000
10000
5000
0
−5000
−10000
pull
Entries 106
Mean −1780
Std Dev 0
2
1
0
−1
−2

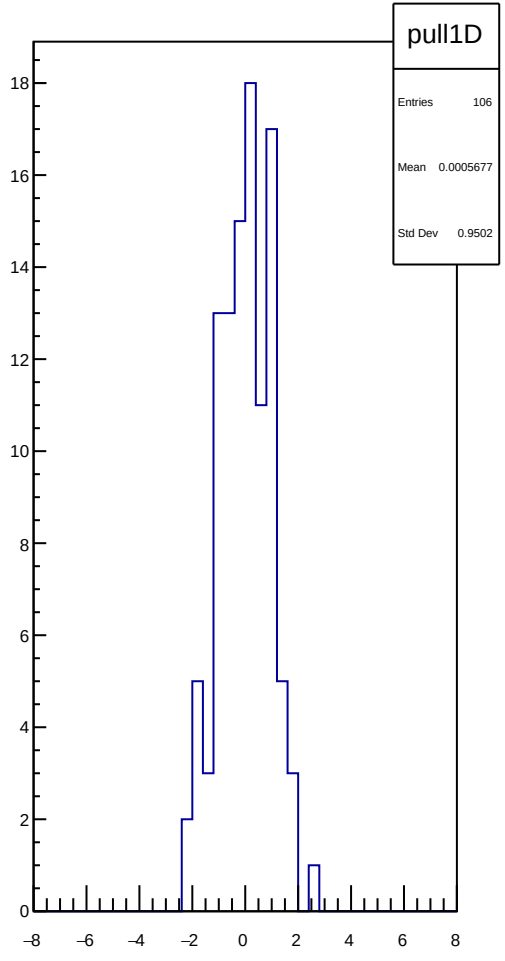

pull1D
Entries 106
Mean 0.0005677
Std Dev 0.9502
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

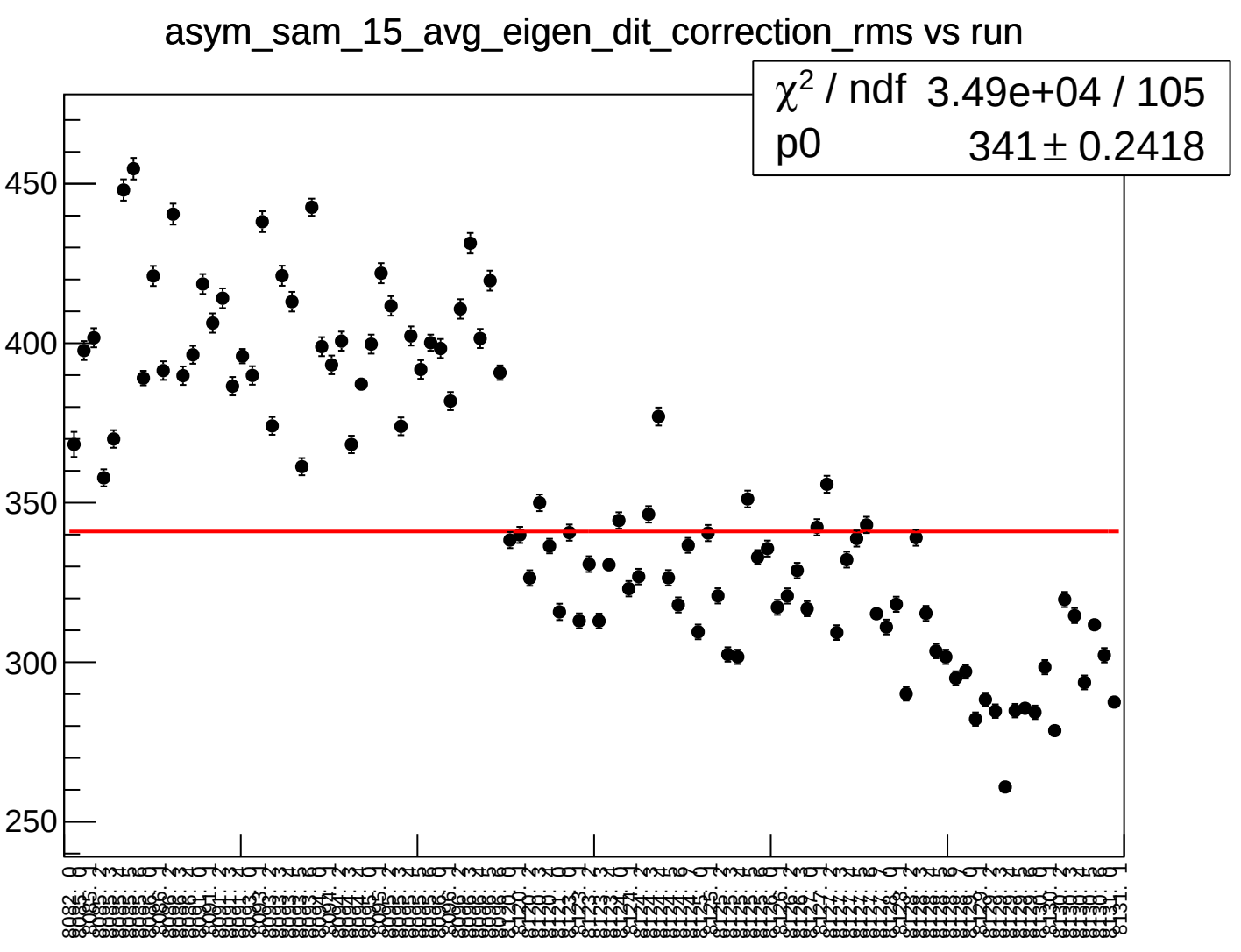

asym_sam_15_avg_dit_correction_rms vs run
χ² / ndf 3.49e+04 / 105
p0 341 ± 0.2418
450
400
350
300
250

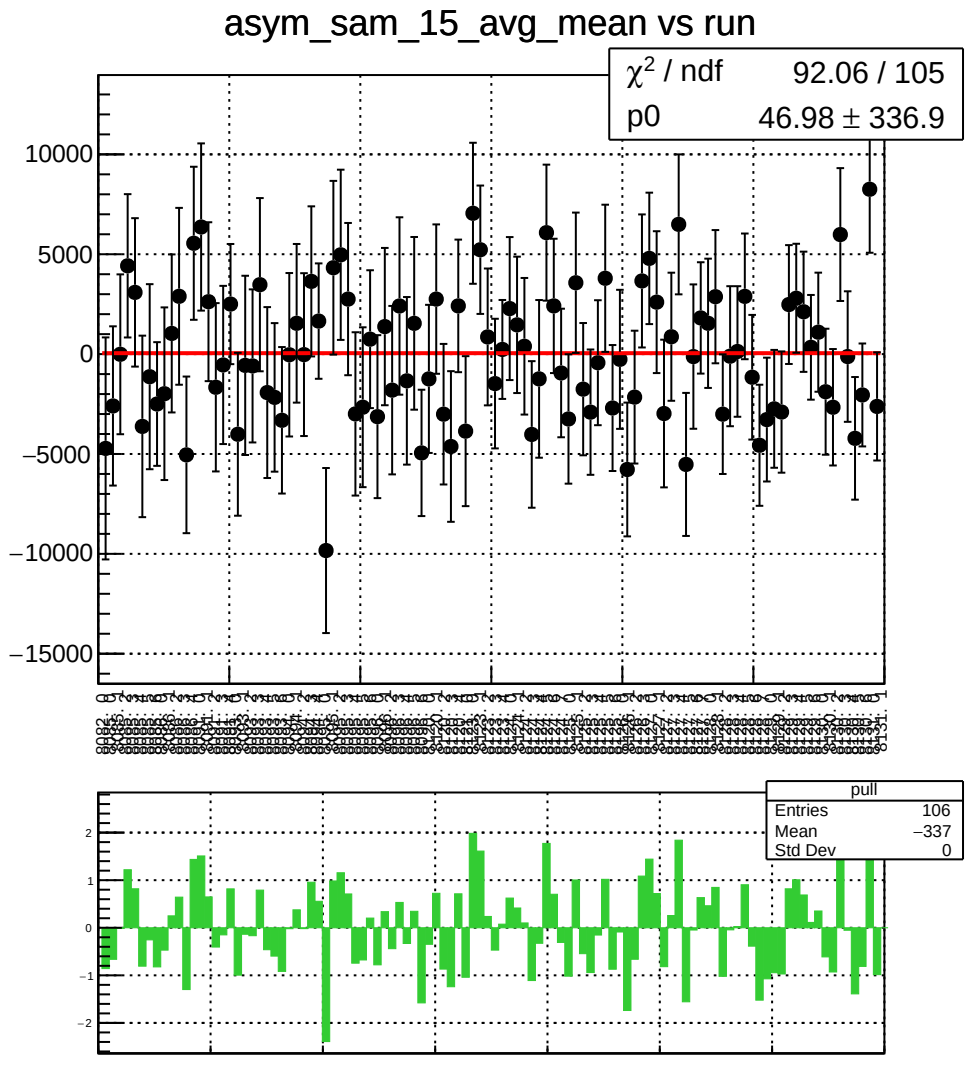

eigen_dit_asym_sam_15_avg_mean vs run
χ² / ndf 92.12 / 104
p0 −42.19 ± 65.06
2000
1000
0
−1000
−2000
pull
Entries 105
Mean 860.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.005005
Std Dev 0.9366
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

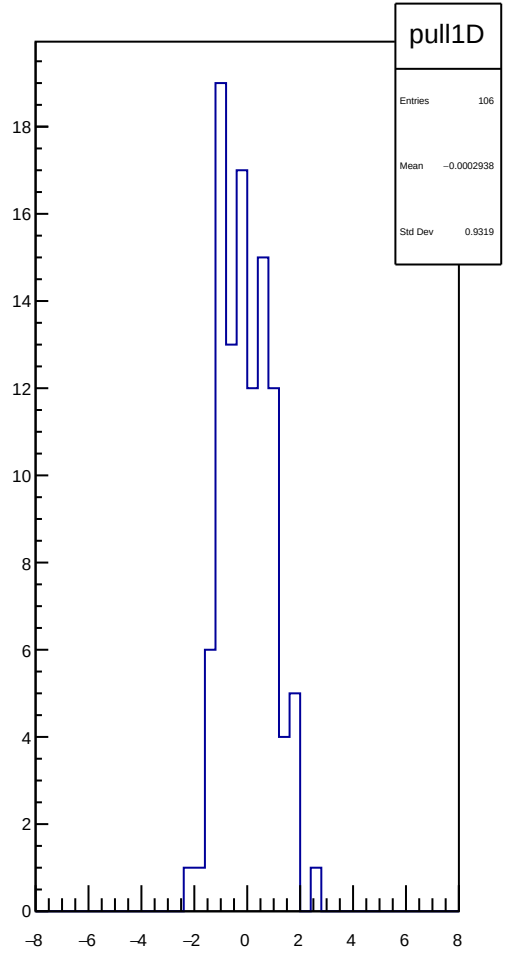

eigen_dit_asym_sam_15_avg_rms vs run
$\chi^2$ / ndf 5655 / 104
p0 65.2 ± 0.04601
95
90
85
80
75
70
65
60

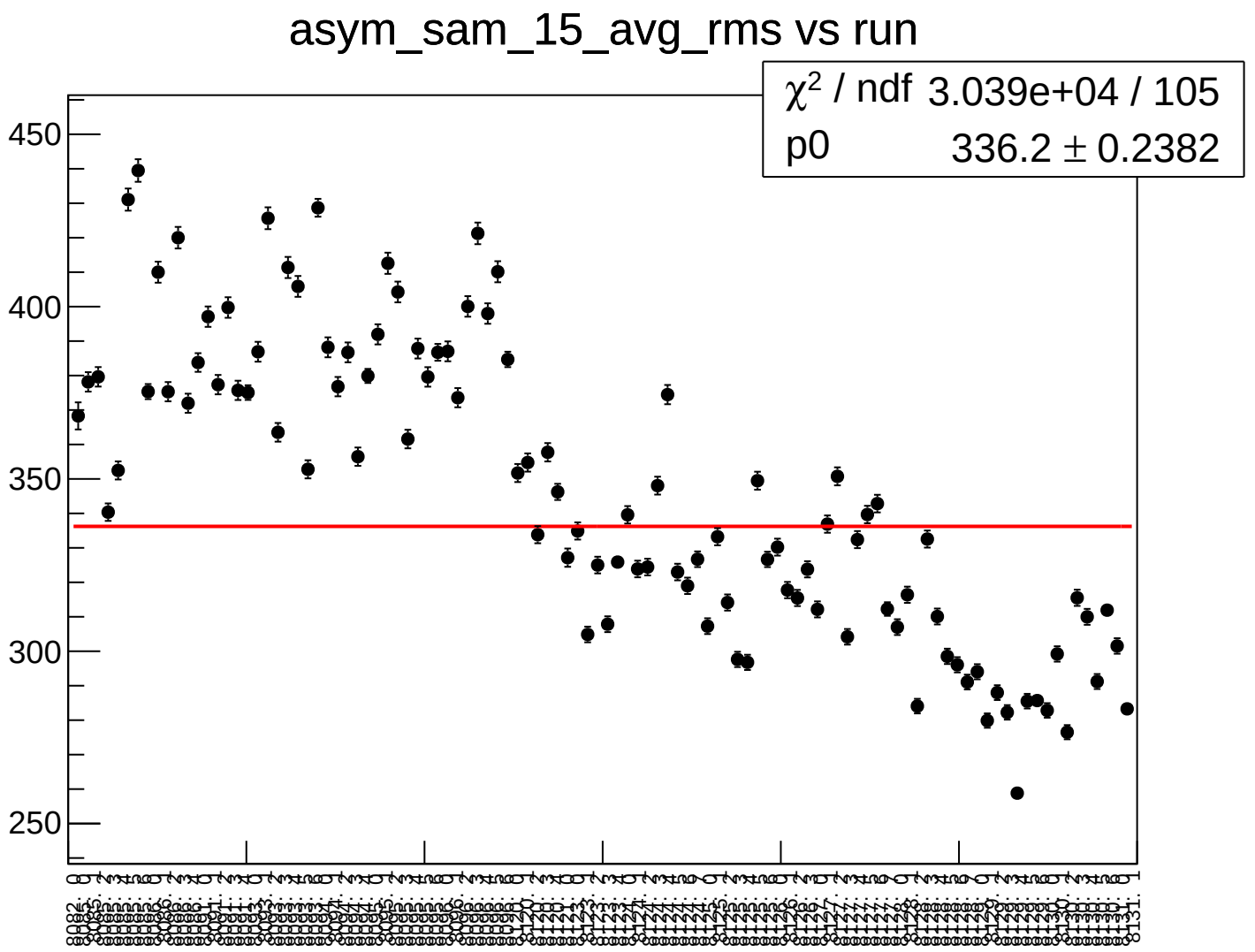

asym_sam_15_avg_eigen_dit_correction_mean vs run
χ² / ndf 95.7 / 105
p0 −92.79 ± 342
15000
10000
5000
0
−5000
−10000
pull
Entries 106
Mean −1780
Std Dev 0
2
1
0
−1
−2

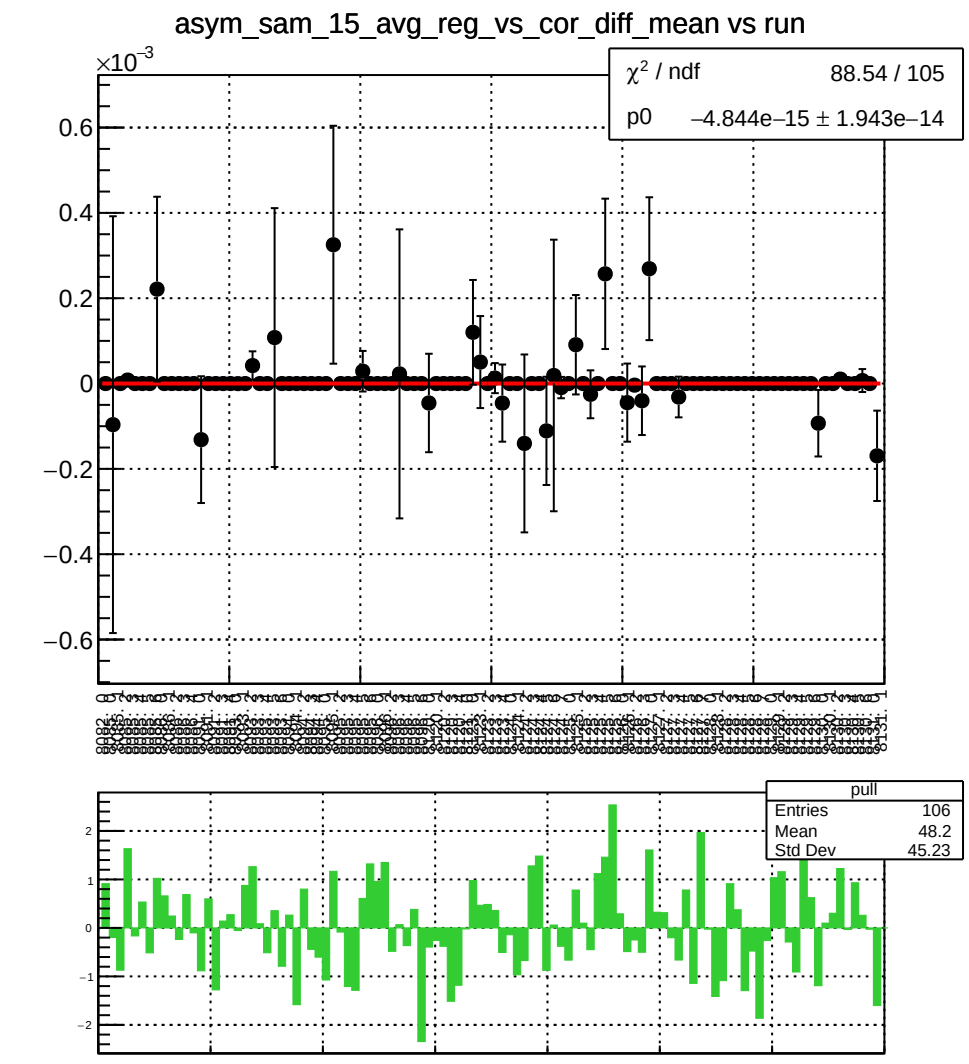

pull1D
Entries 106
Mean 0.0005677
Std Dev 0.9502
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

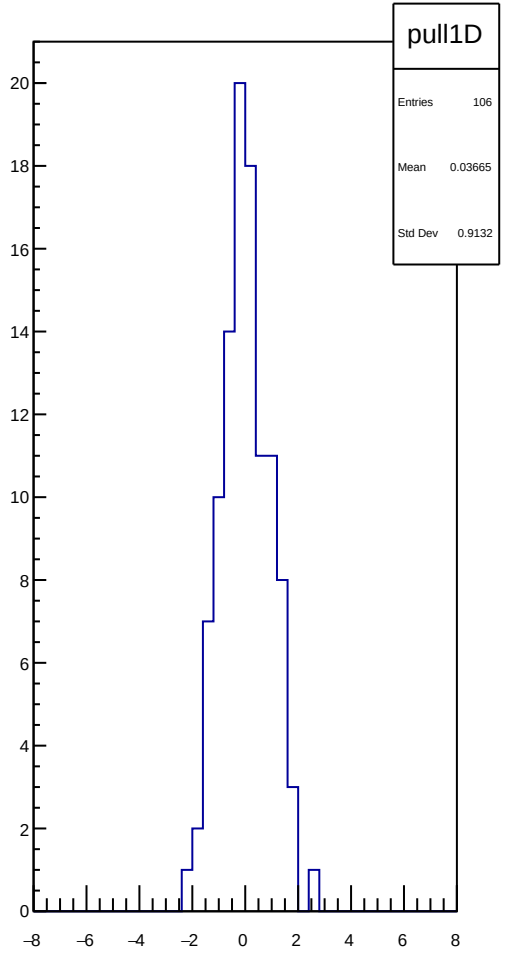

asym_sam_15_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.49e+04 / 105
p0 341 ± 0.2418
450
400
350
300
250

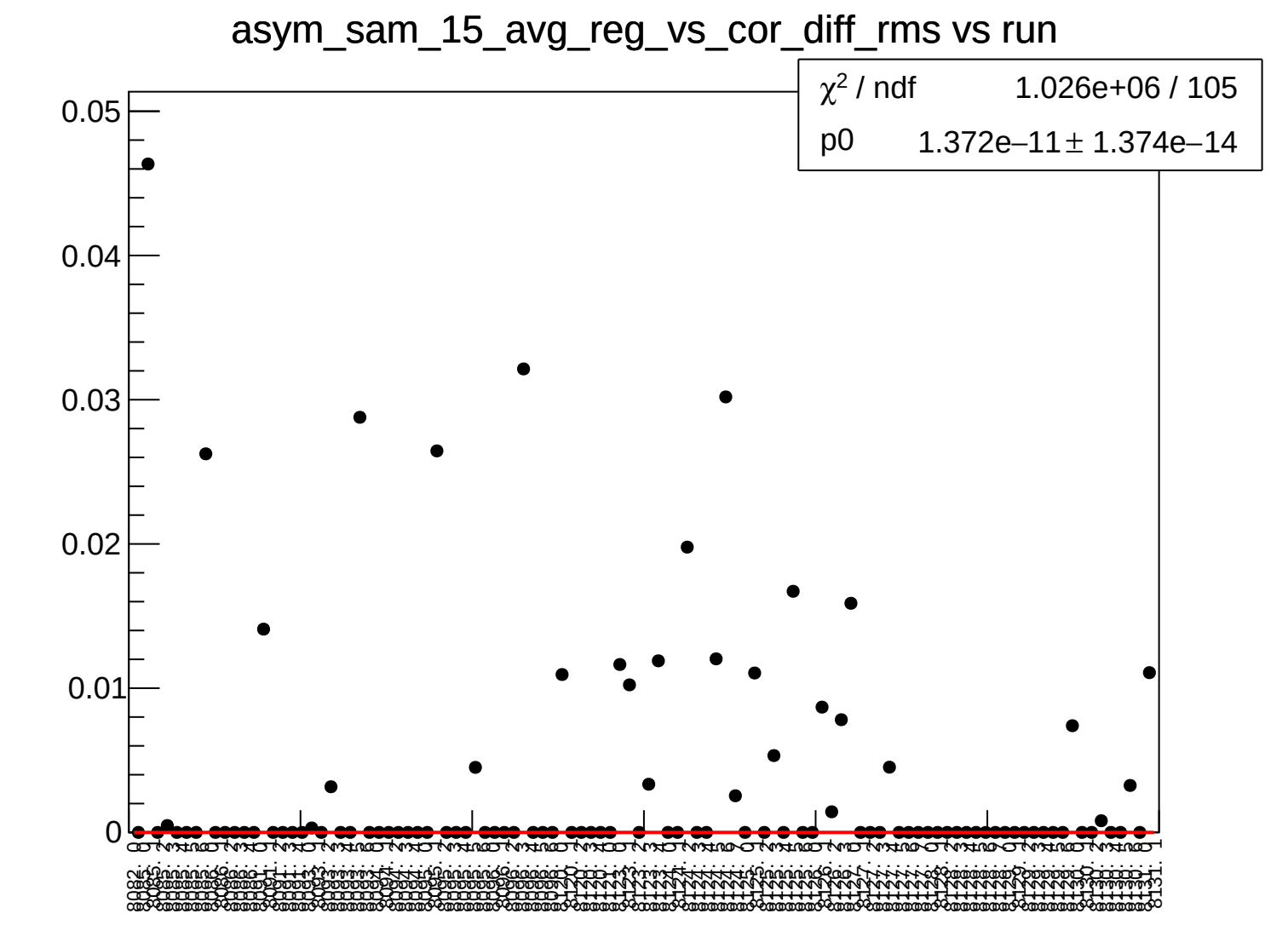

asym_sam_15_avg_mean vs run
χ² / ndf 92.06 / 105
p0 46.98 ± 336.9
10000
5000
0
−5000
−10000
−15000
pull
Entries 106
Mean −337
Std Dev 0
2
1
0
−1
−2

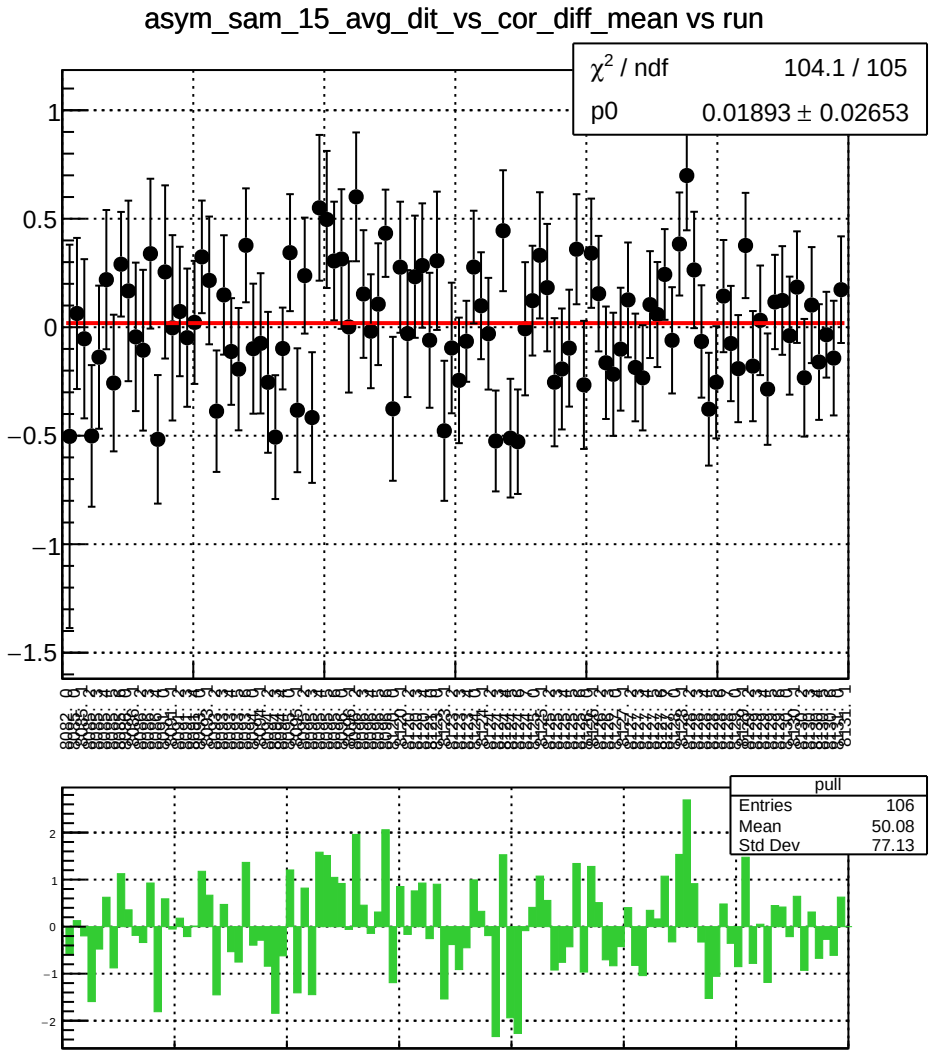

pull1D
Entries 106
Mean −0.0002938
Std Dev 0.9319
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

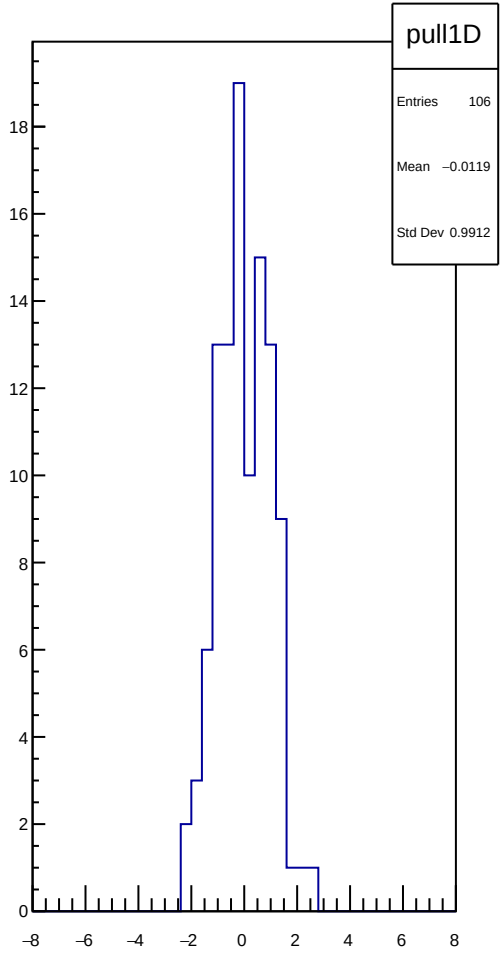

asym_sam_15_avg_rms vs run
$\chi^2$ / ndf 3.039e+04 / 105
p0 336.2 ± 0.2382
450
400
350
300
250

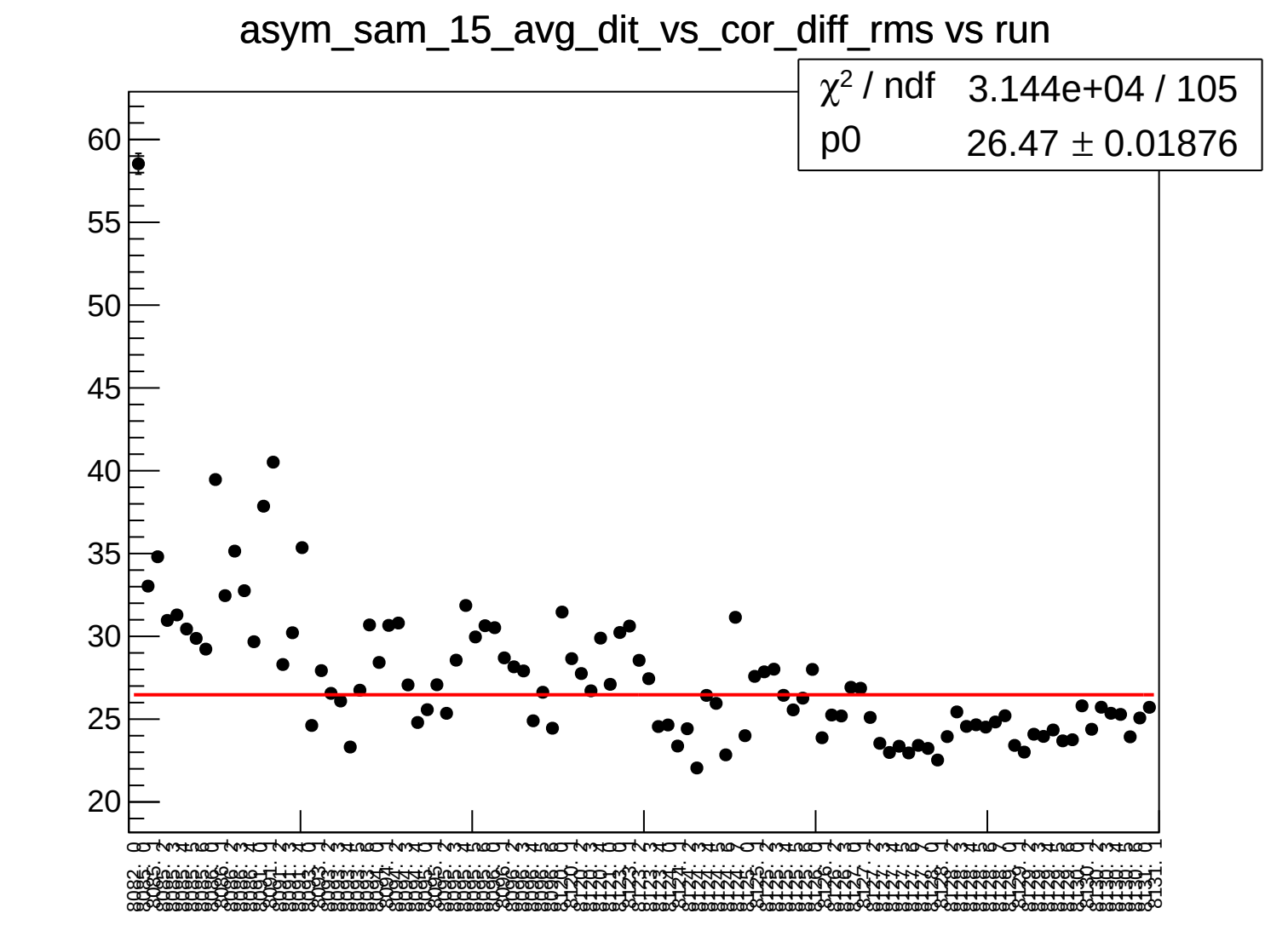

asym_sam_15_avg_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 88.54 / 105
p0 −4.844e−15 ± 1.943e−14
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 106
Mean 48.2
Std Dev 45.23
2
1
0
−1
−2

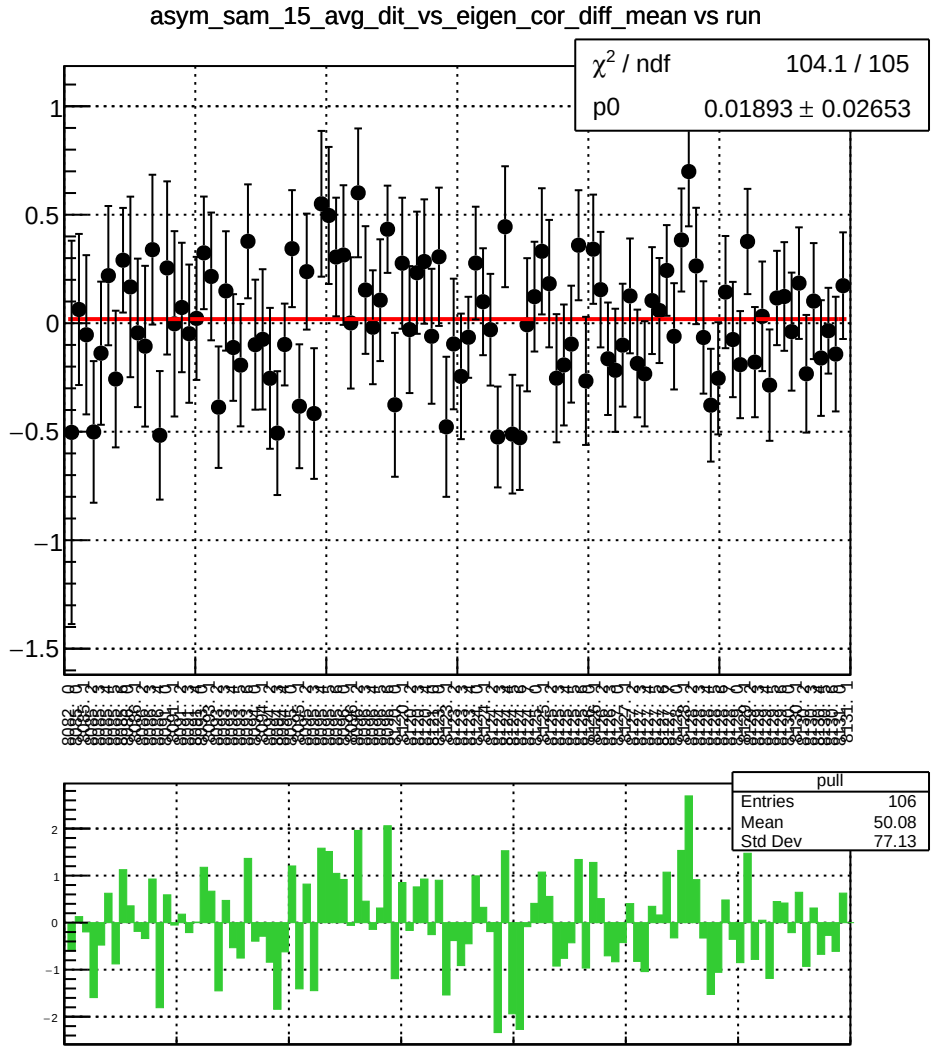

pull1D
Entries 106
Mean 0.03665
Std Dev 0.9132
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

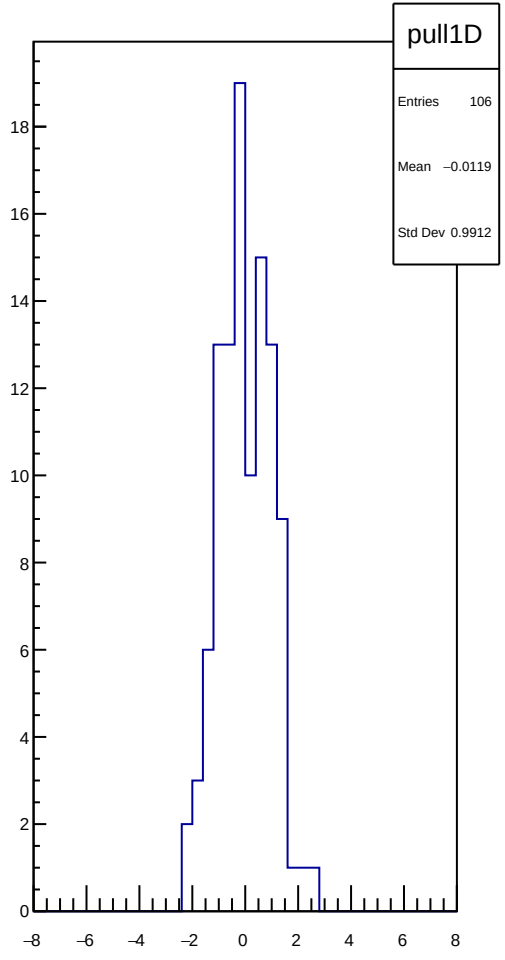

asym_sam_15_avg_reg_vs_cor_diff_rms vs run
$\chi^2$ / ndf 1.026e+06 / 105
p0 1.372e−11 ± 1.374e−14
0.05
0.04
0.03
0.02
0.01
0

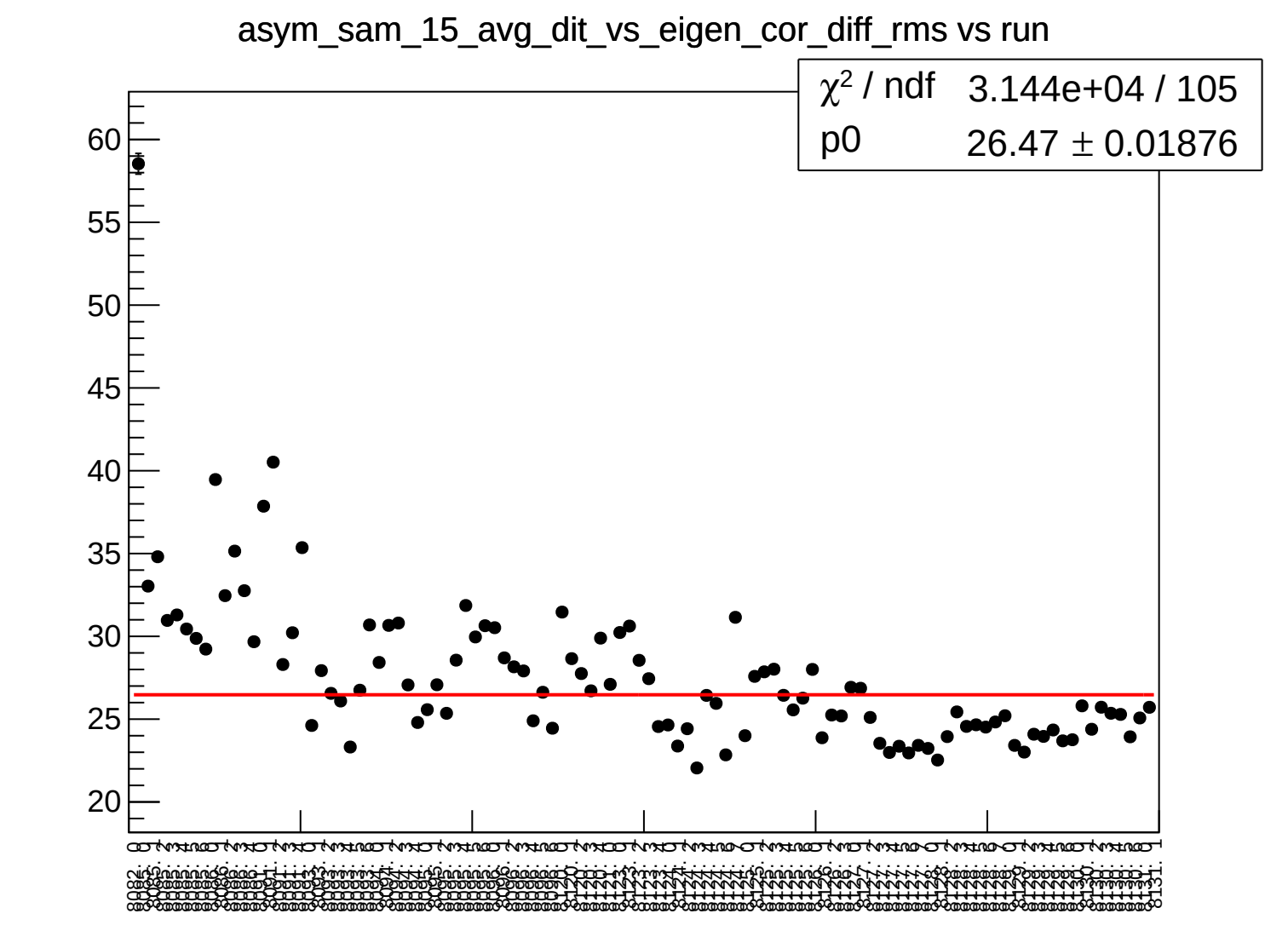

asym_sam_15_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 104.1 / 105
p0 0.01893 ± 0.02653
pull
Entries 106
Mean 50.08
Std Dev 77.13

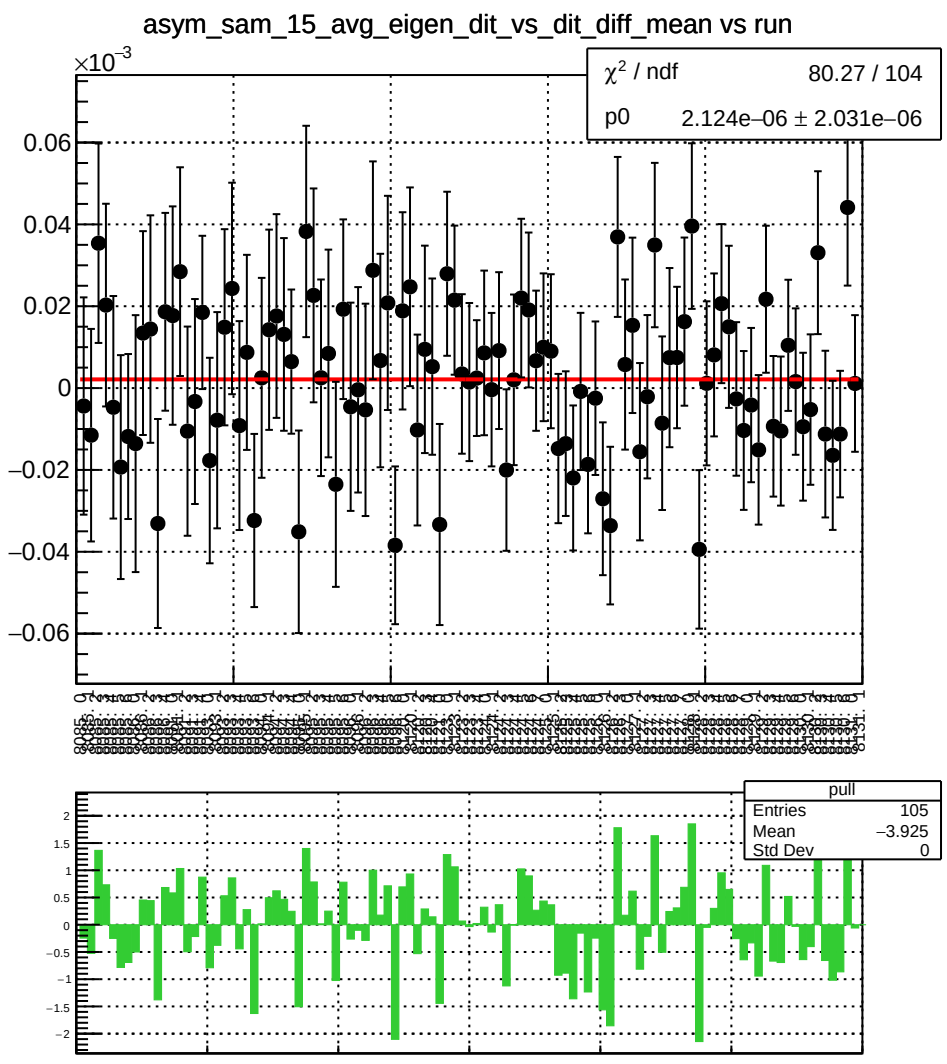

pull1D
Entries 106
Mean −0.0119
Std Dev 0.9912

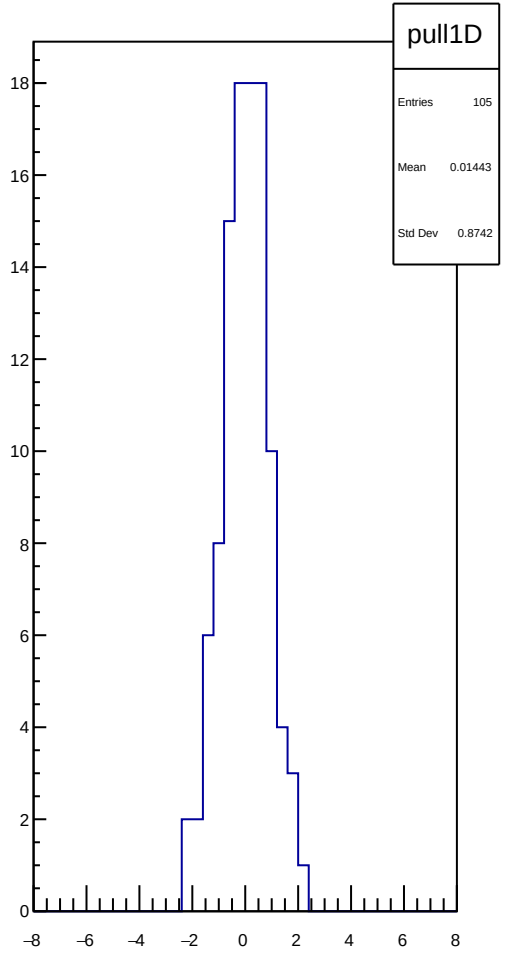

asym_sam_15_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.144e+04 / 105
p0 26.47 ± 0.01876
60
55
50
45
40
35
30
25
20

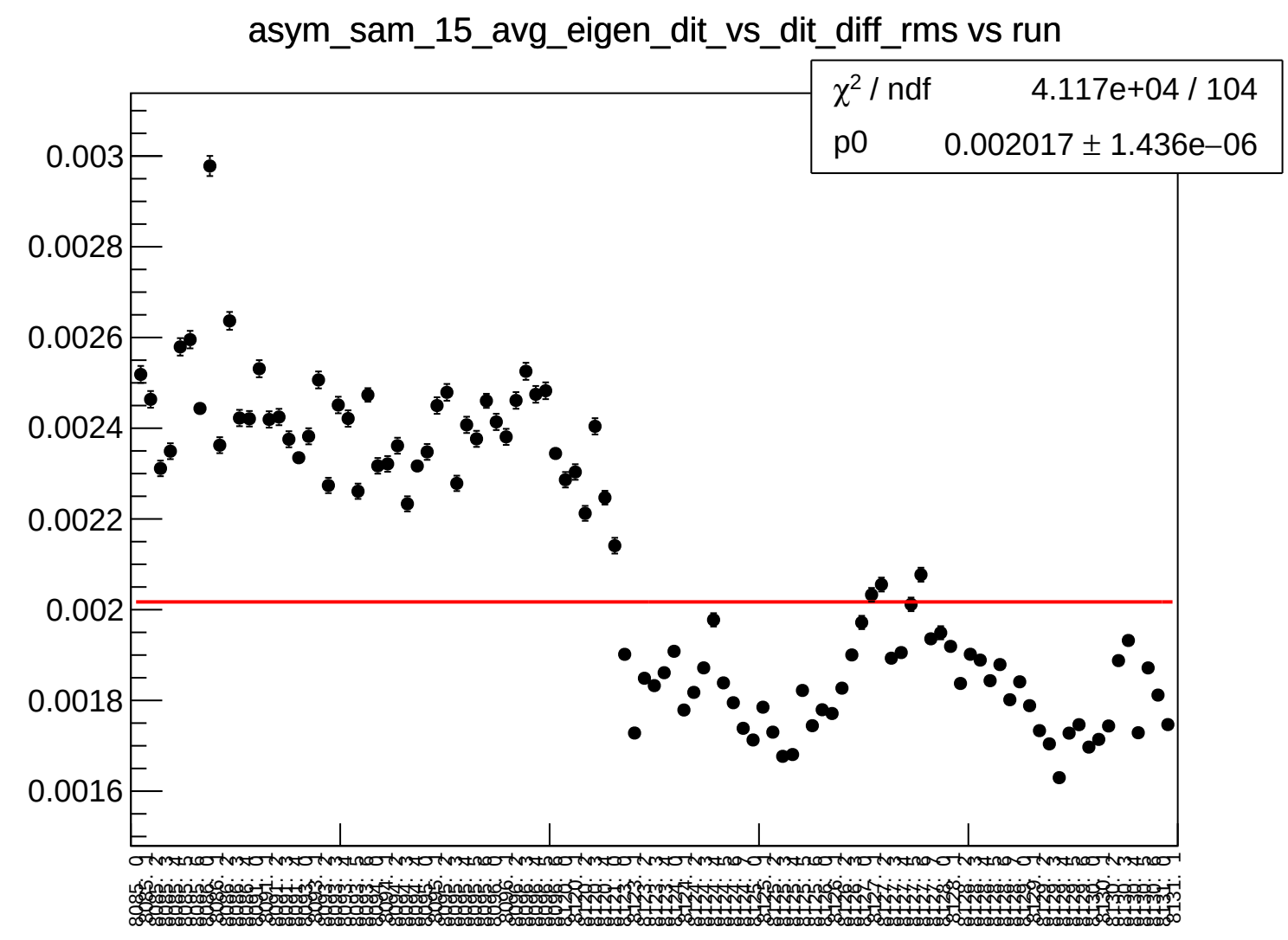

asym_sam_15_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.1 / 105
p0 0.01893 ± 0.02653
pull
Entries 106
Mean 50.08
Std Dev 77.13

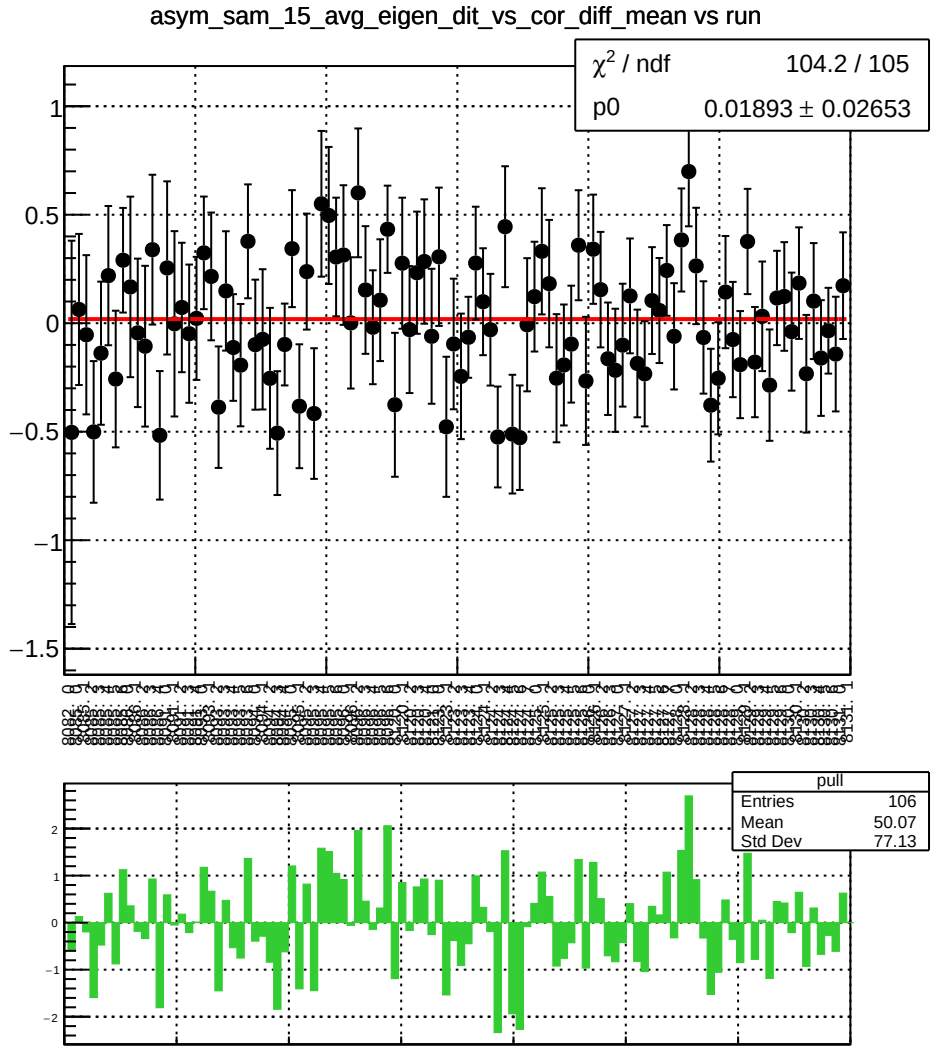

pull1D
Entries 106
Mean −0.0119
Std Dev 0.9912

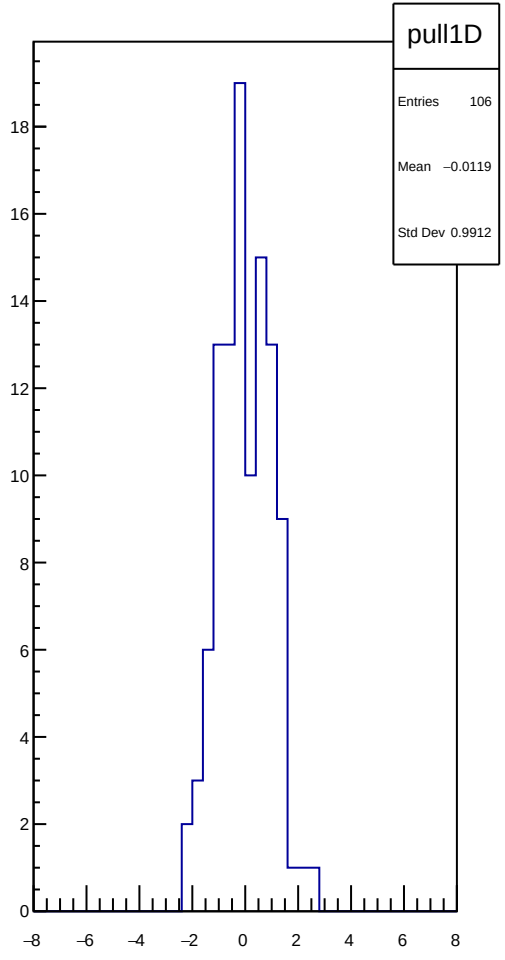

asym_sam_15_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.144e+04 / 105
p0 26.47 ± 0.01876
60
55
50
45
40
35
30
25
20

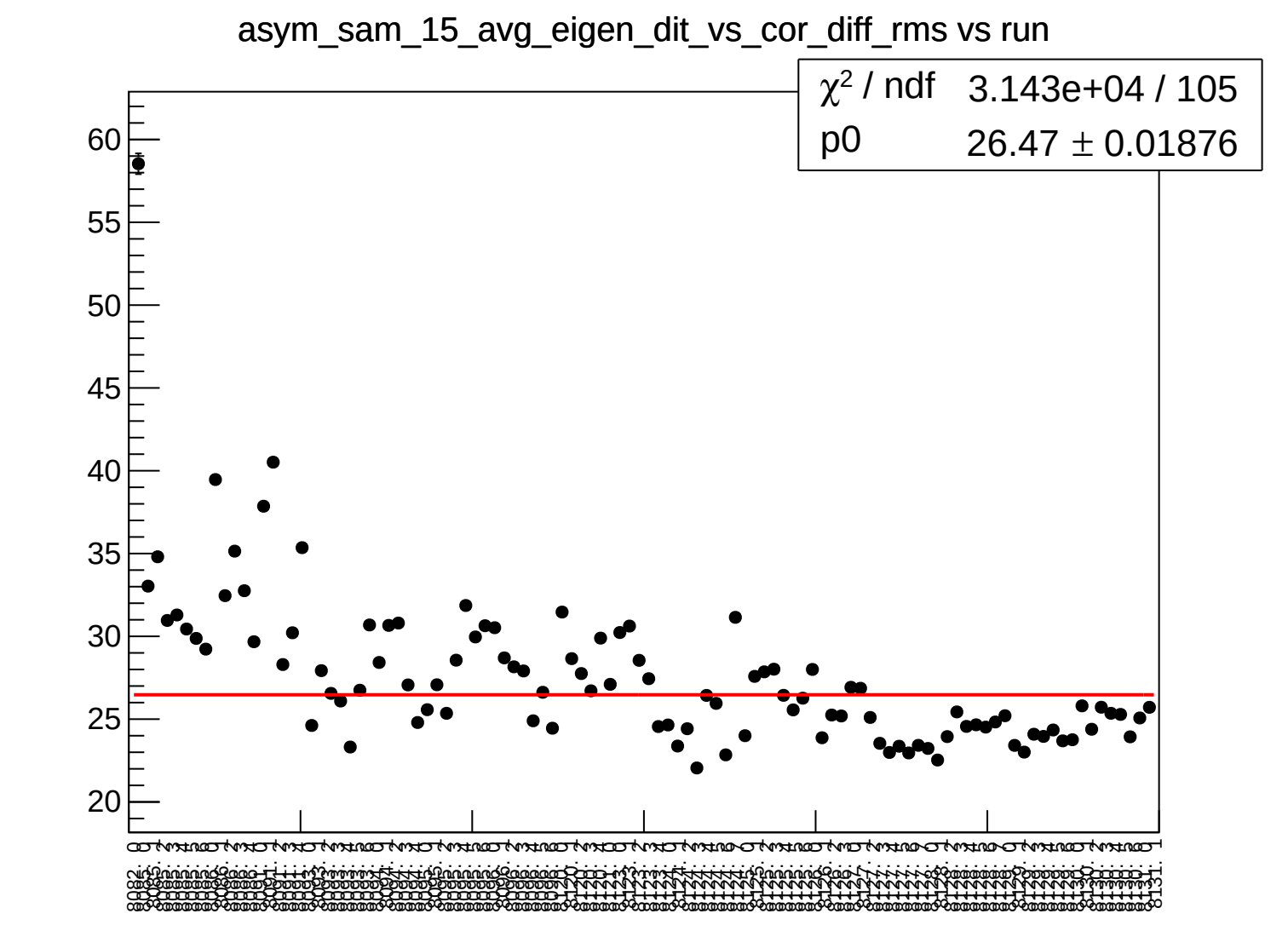

asym_sam_15_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 80.27 / 104
p0 2.124e−06 ± 2.031e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 105
Mean −3.925
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

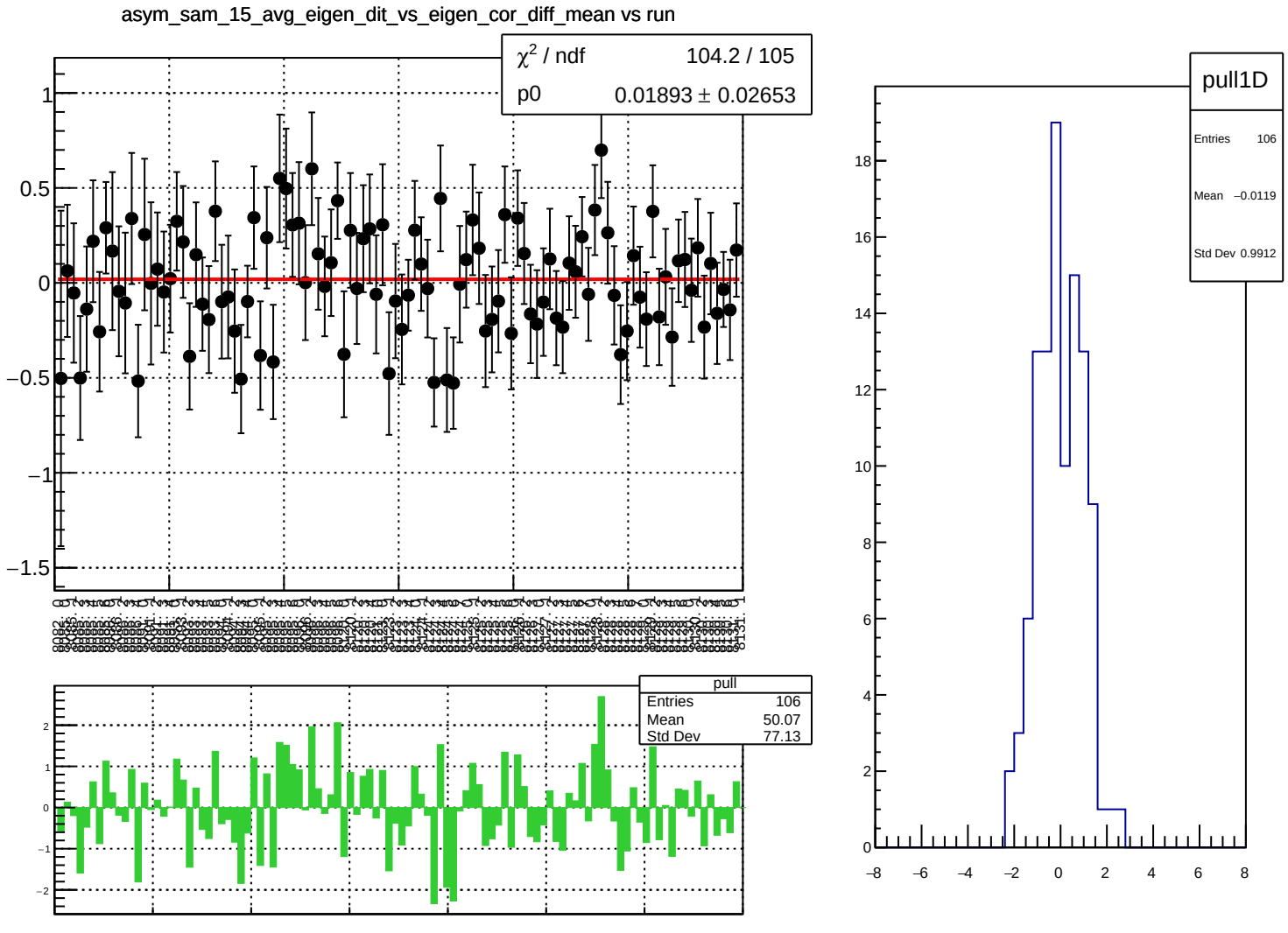

pull1D
Entries 105
Mean 0.01443
Std Dev 0.8742
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

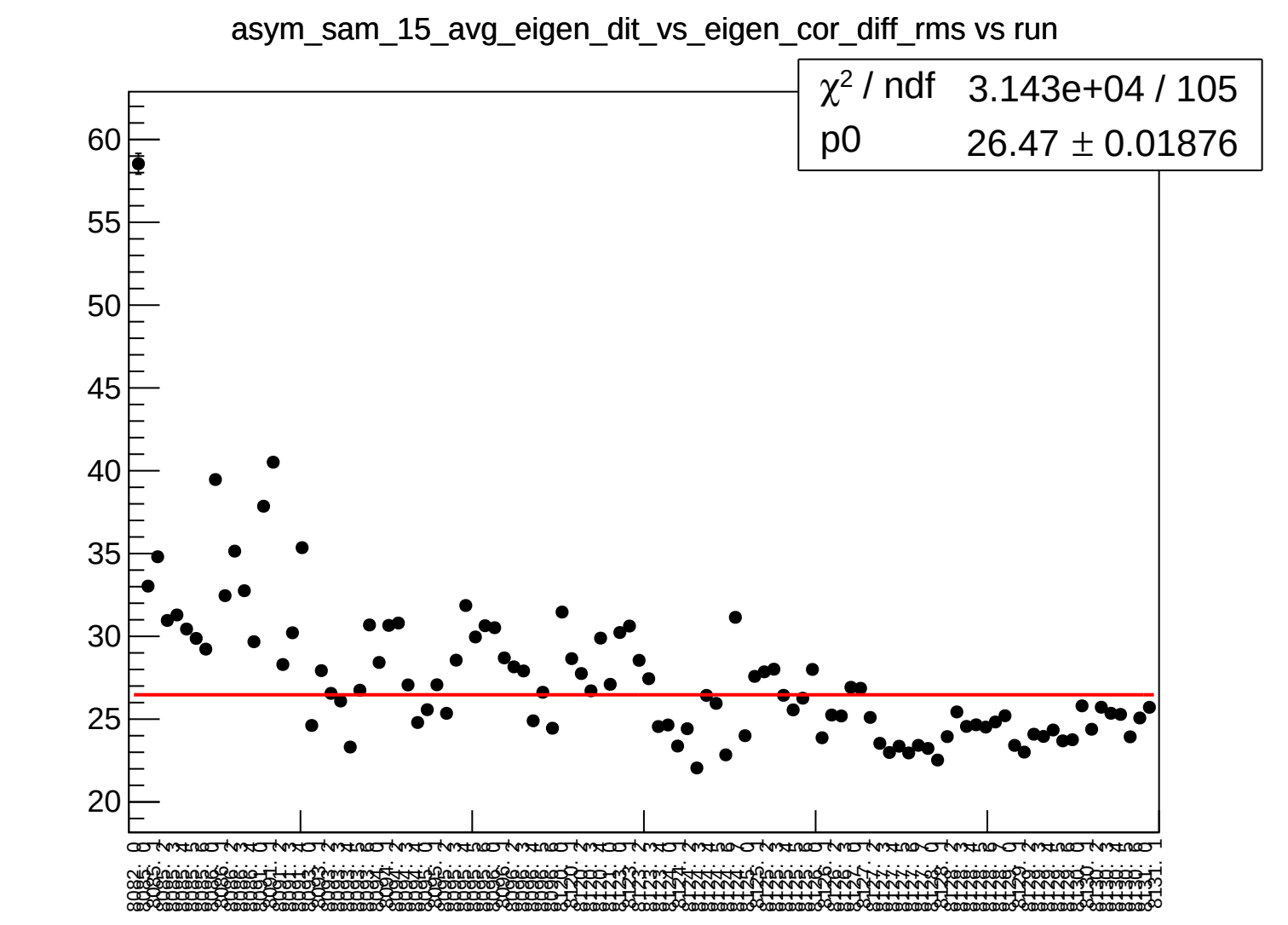

asym_sam_15_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.117e+04 / 104
p0 0.002017 ± 1.436e−06
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016

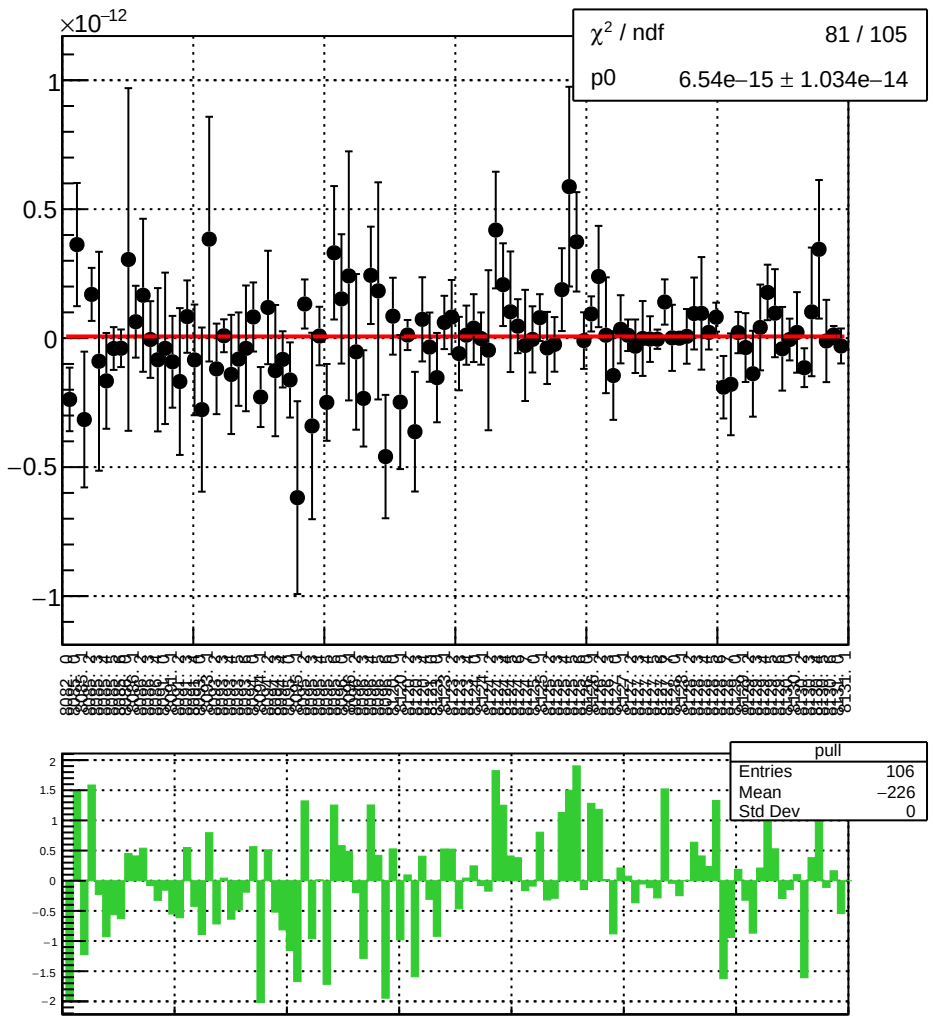

asym_sam_15_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 104.2 / 105
p0 0.01893 ± 0.02653
pull
Entries 106
Mean 50.07
Std Dev 77.13

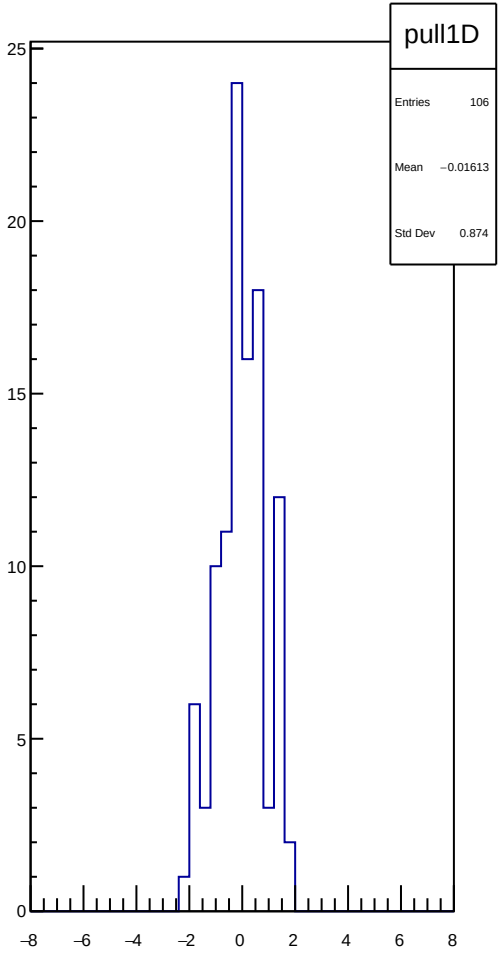

pull1D
Entries 106
Mean −0.0119
Std Dev 0.9912

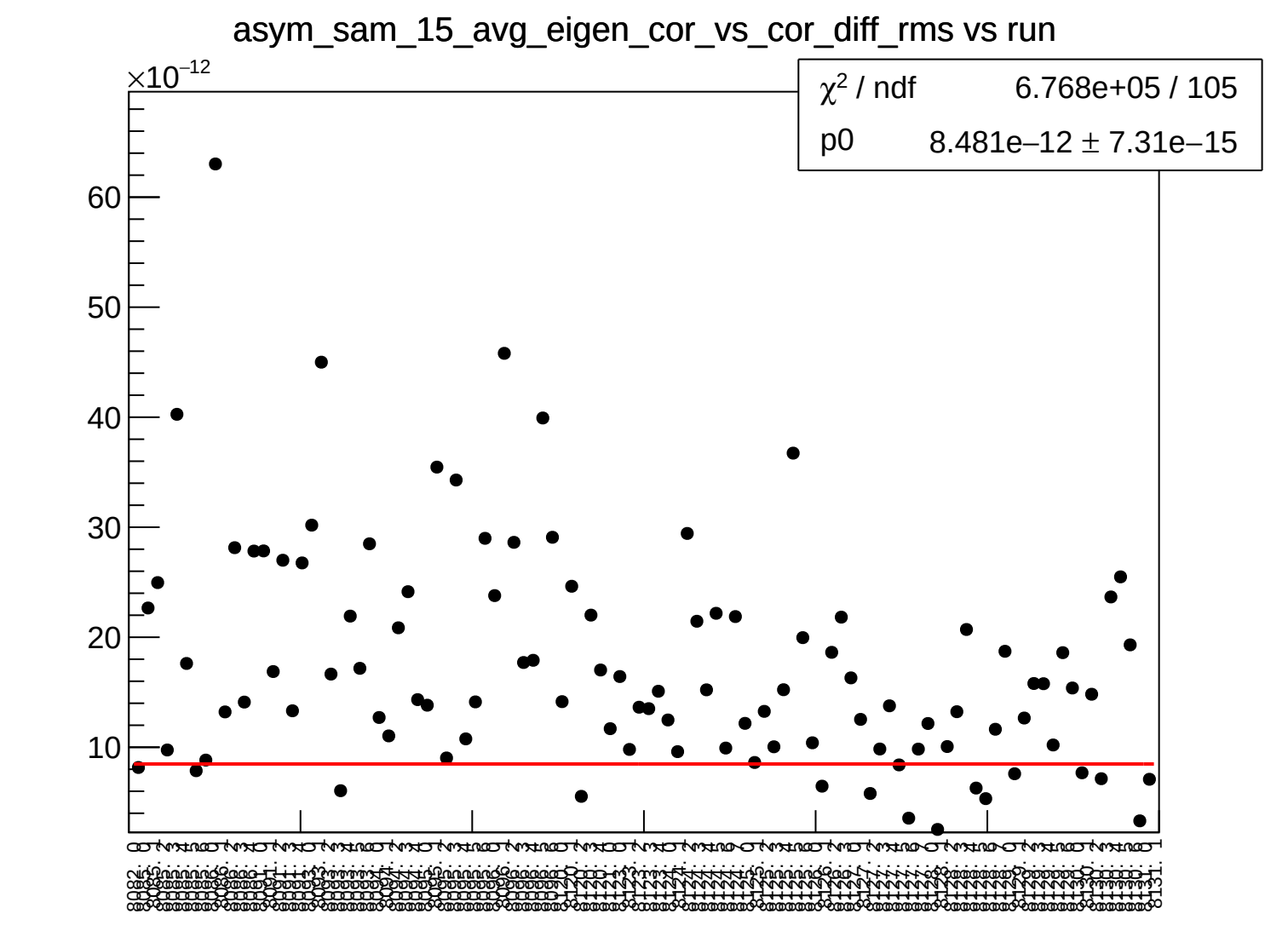

asym_sam_15_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.143e+04 / 105
p0 26.47 ± 0.01876
60
55
50
45
40
35
30
25
20

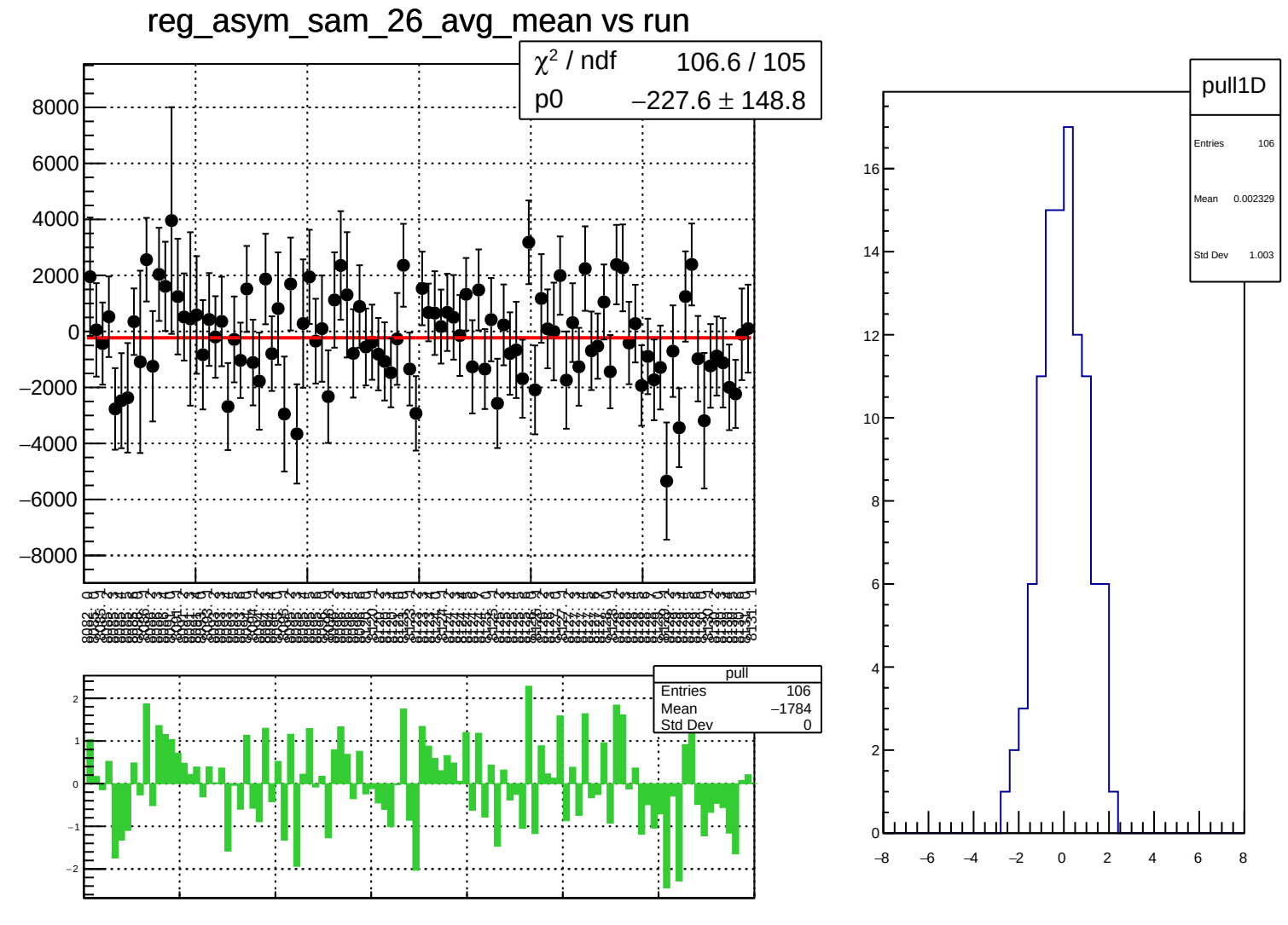

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.2 / 105
p0 0.01893 ± 0.02653
pull
Entries 106
Mean 50.07
Std Dev 77.13
pull1D
Entries 106
Mean −0.0119
Std Dev 0.9912

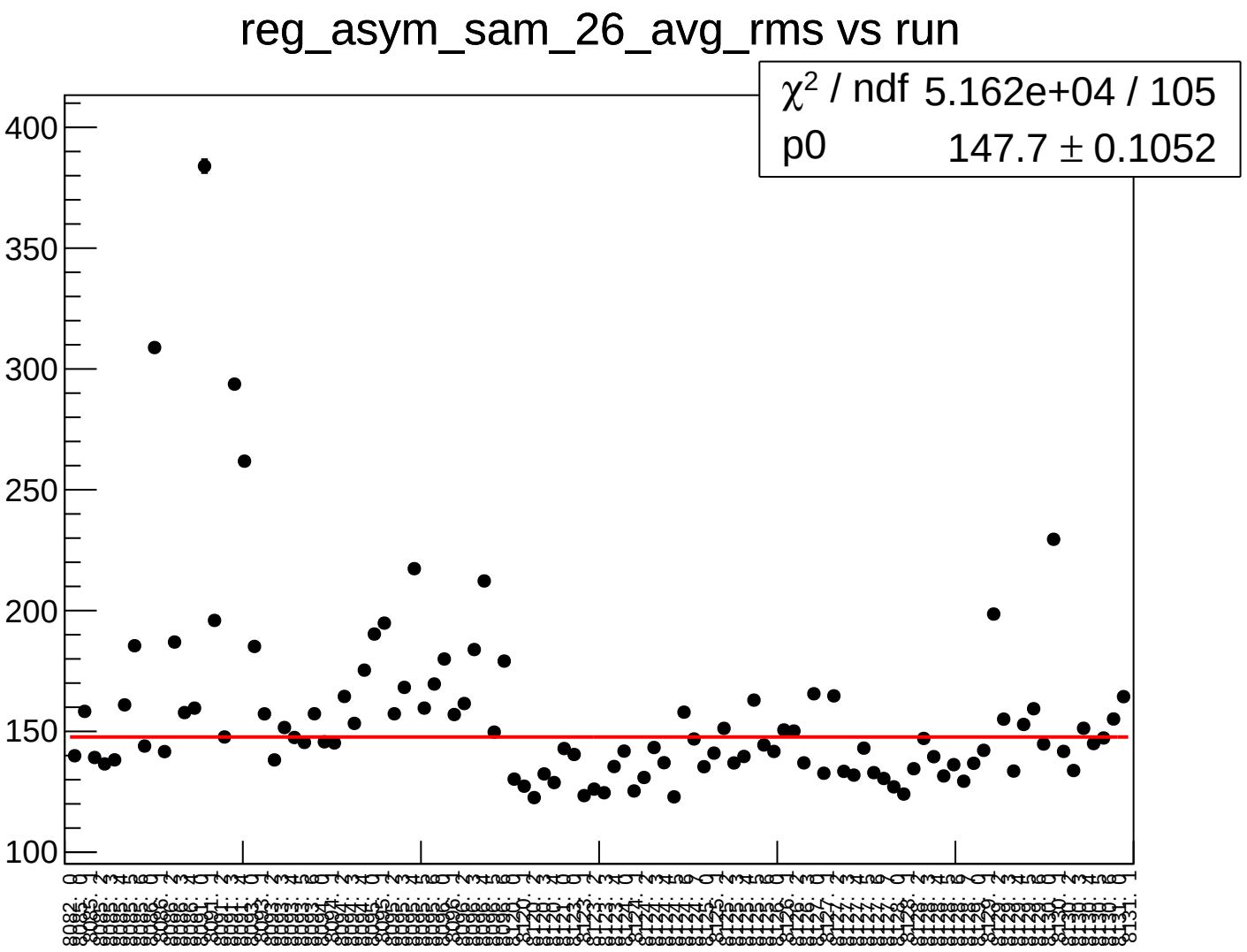

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.143e+04 / 105
p0 26.47 ± 0.01876
60
55
50
45
40
35
30
25
20

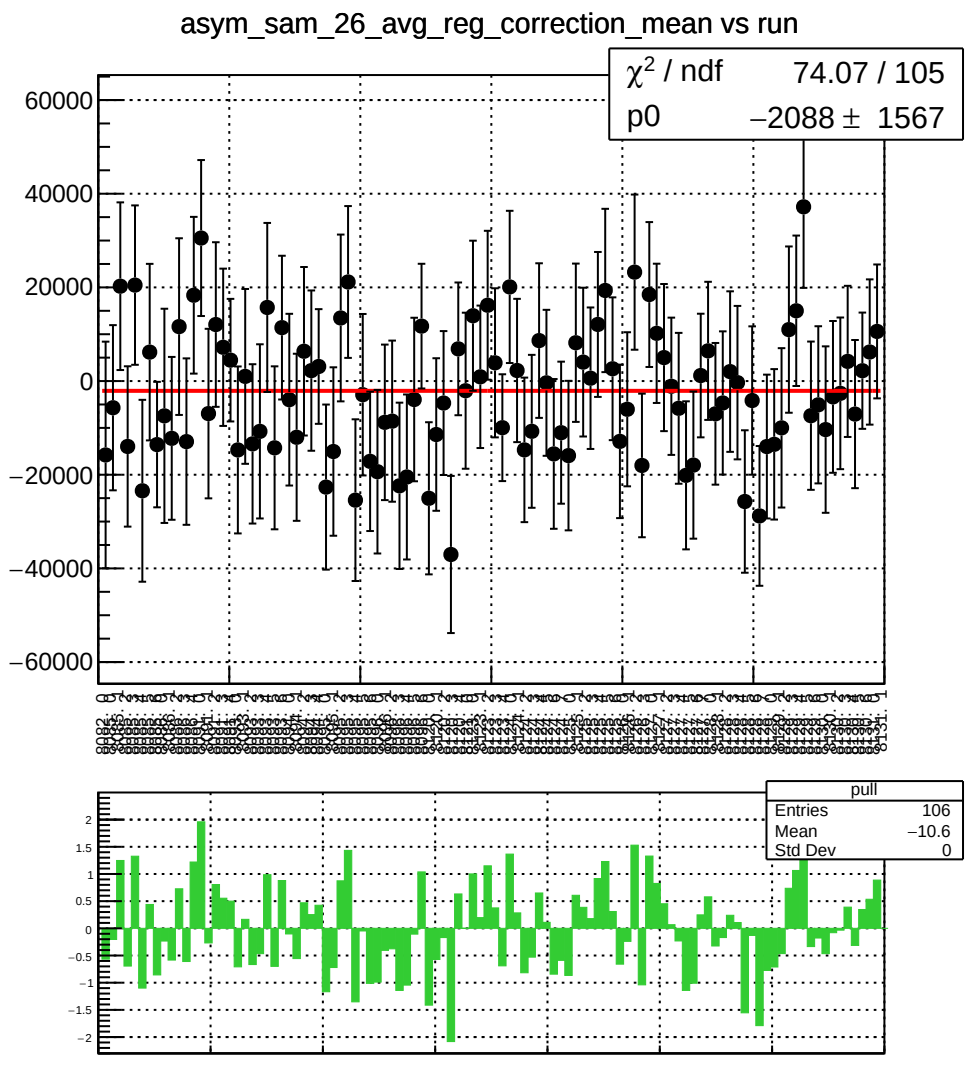

asym_sam_15_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81 / 105
p0 6.54e−15 ± 1.034e−14
pull
Entries 106
Mean −226
Std Dev 0

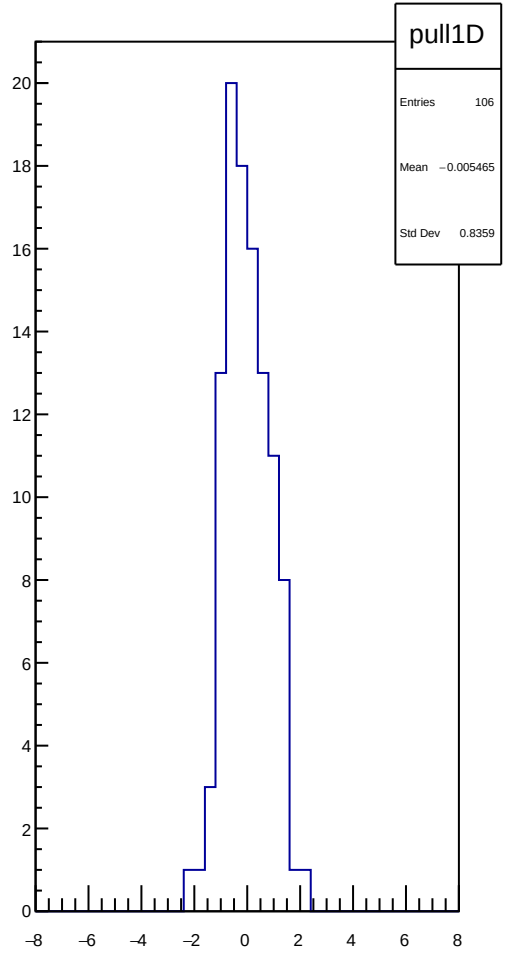

pull1D
Entries 106
Mean −0.01613
Std Dev 0.874

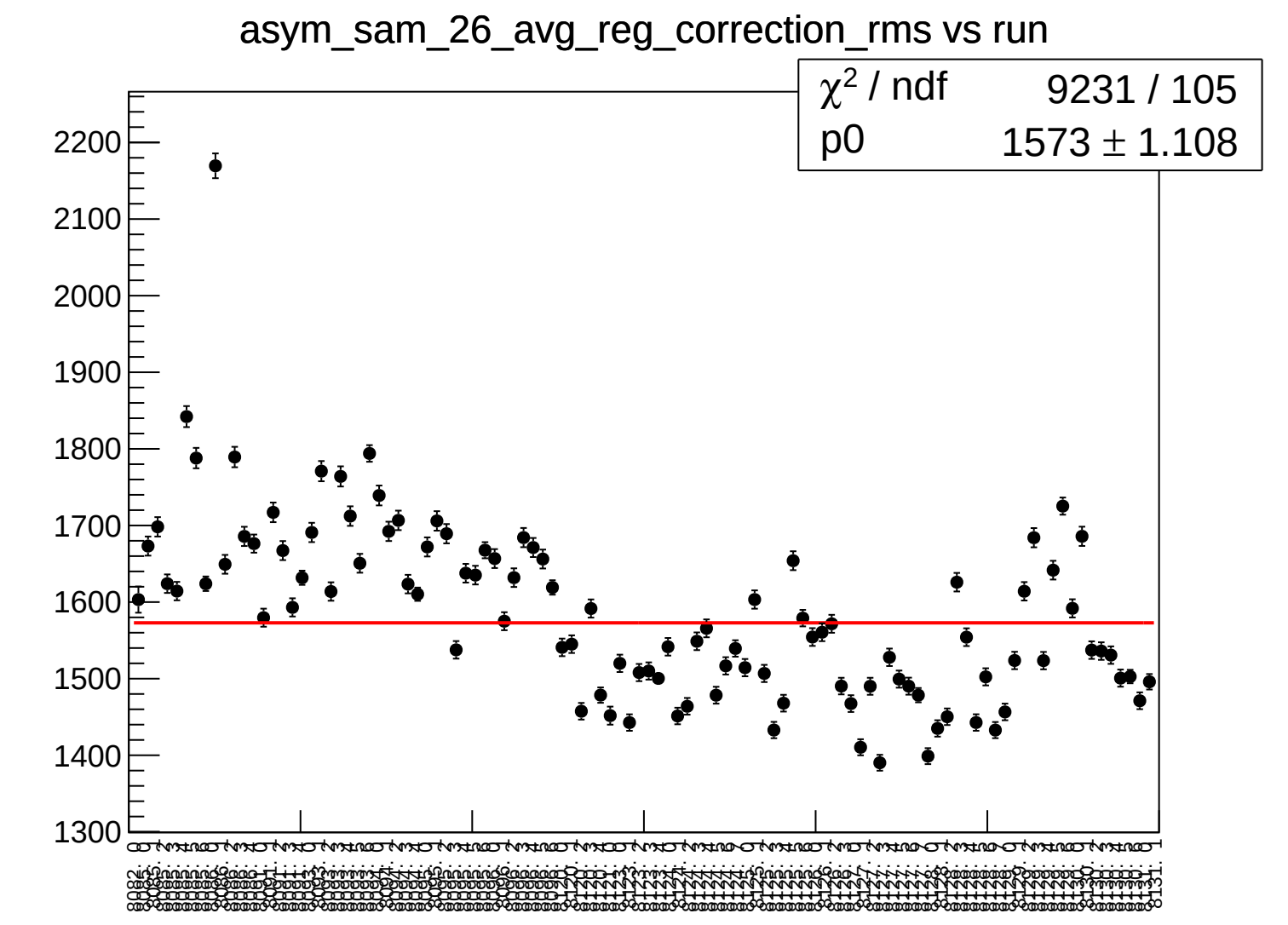

asym_sam_15_avg_eigen_cor_vs_cor_diff_rms vs run
×10^−12
χ² / ndf 6.768e+05 / 105
p0 8.481e−12 ± 7.31e−15
60
50
40
30
20
10

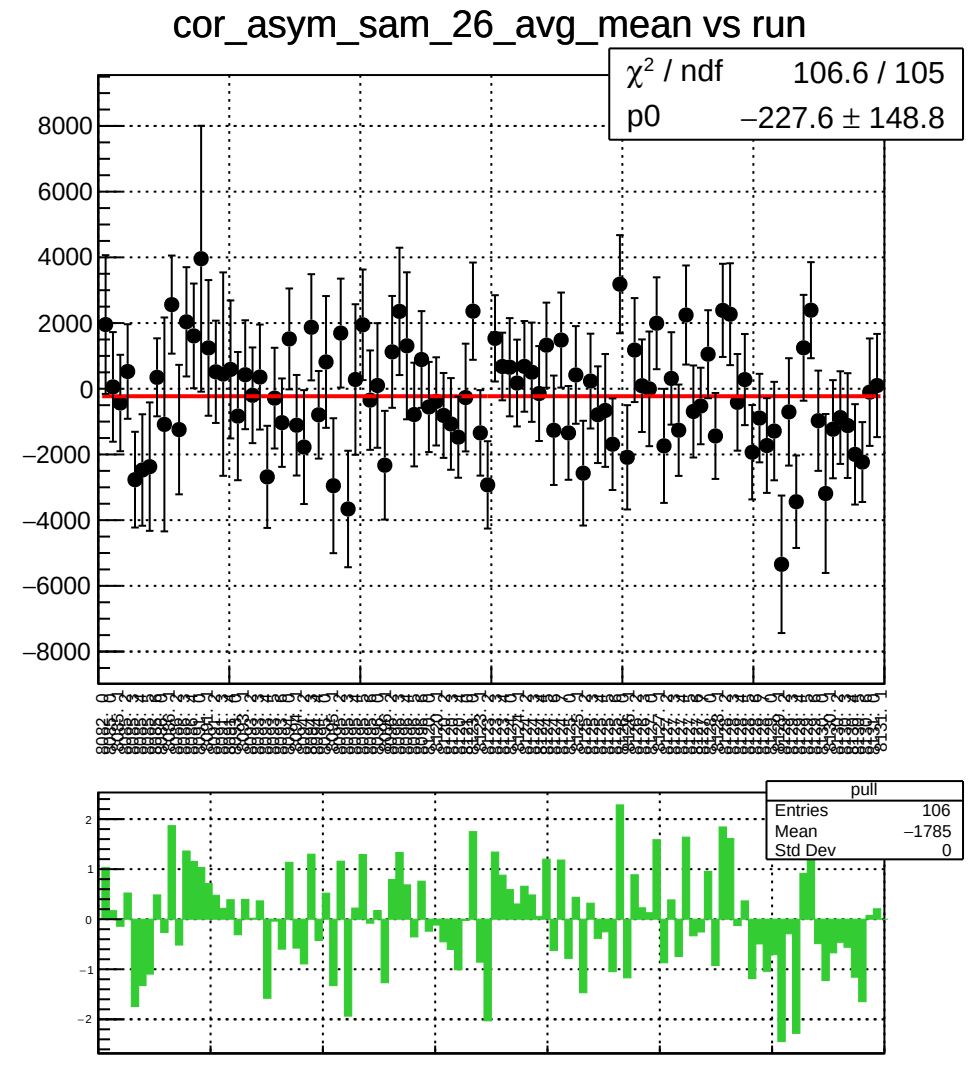

reg_asym_sam_26_avg_mean vs run
χ² / ndf 106.6 / 105
p0 −227.6 ± 148.8
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 106
Mean −1784
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 106
Mean 0.002329
Std Dev 1.003
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

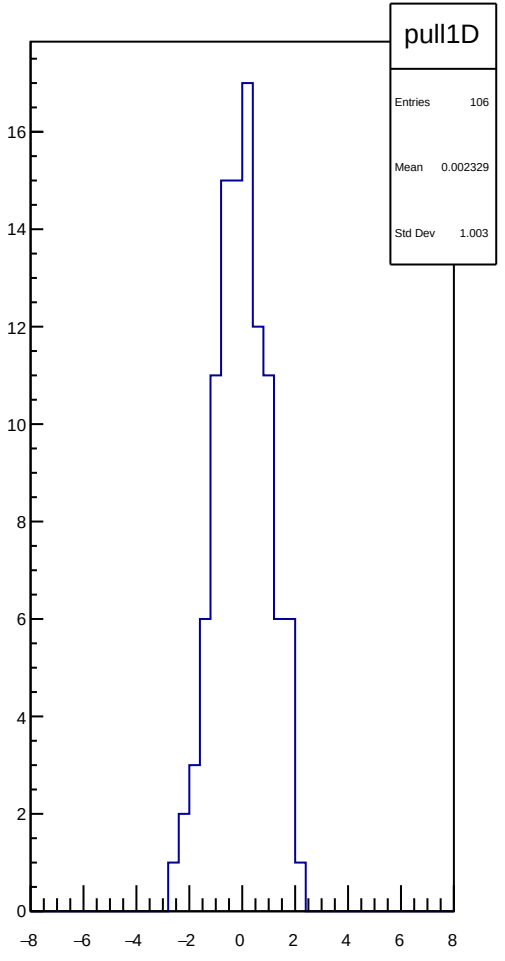

reg_asym_sam_26_avg_rms vs run
χ² / ndf 5.162e+04 / 105
p0 147.7 ± 0.1052
400
350
300
250
200
150
100

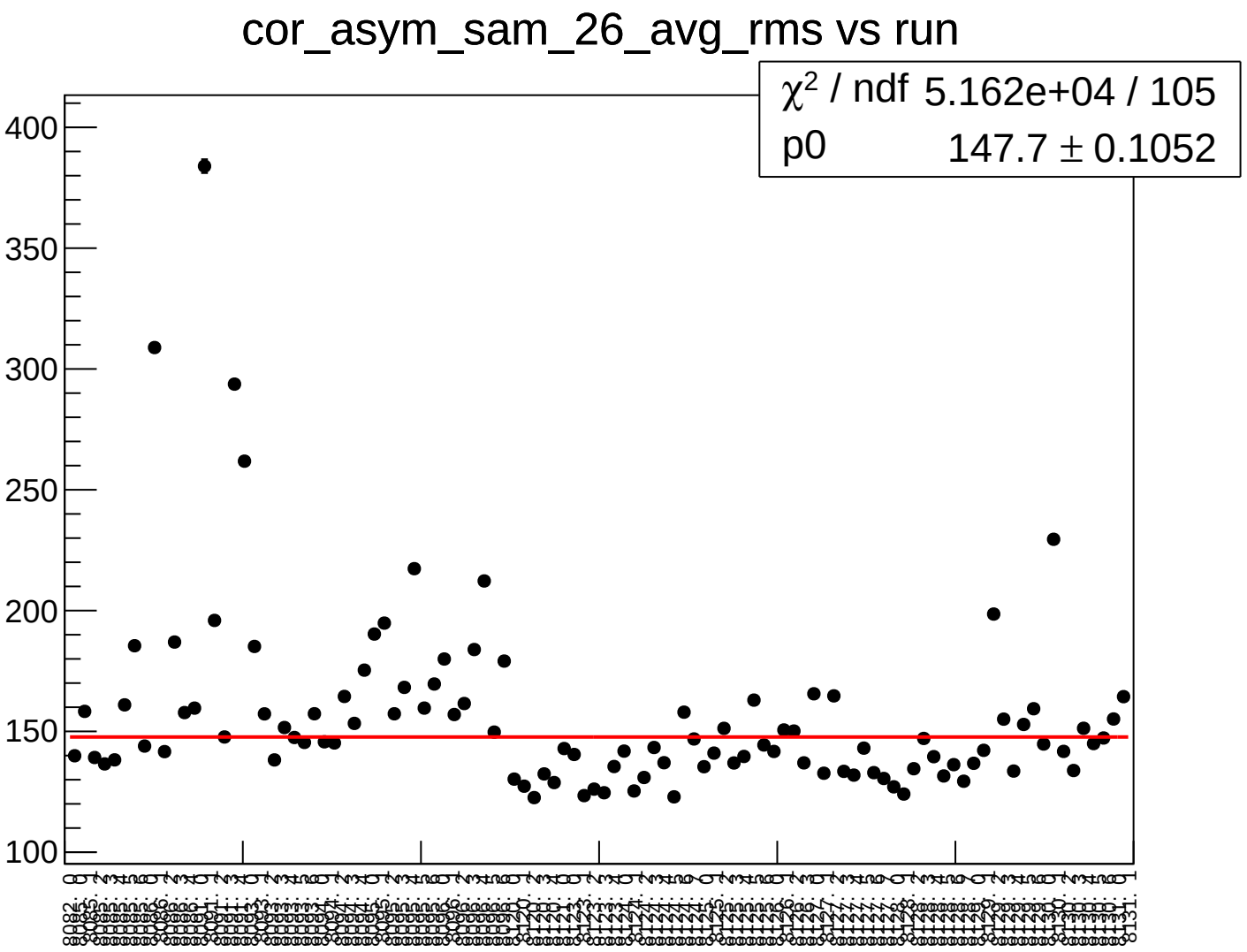

asym_sam_26_avg_reg_correction_mean vs run
χ² / ndf 74.07 / 105
p0 −2088 ± 1567
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean −10.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

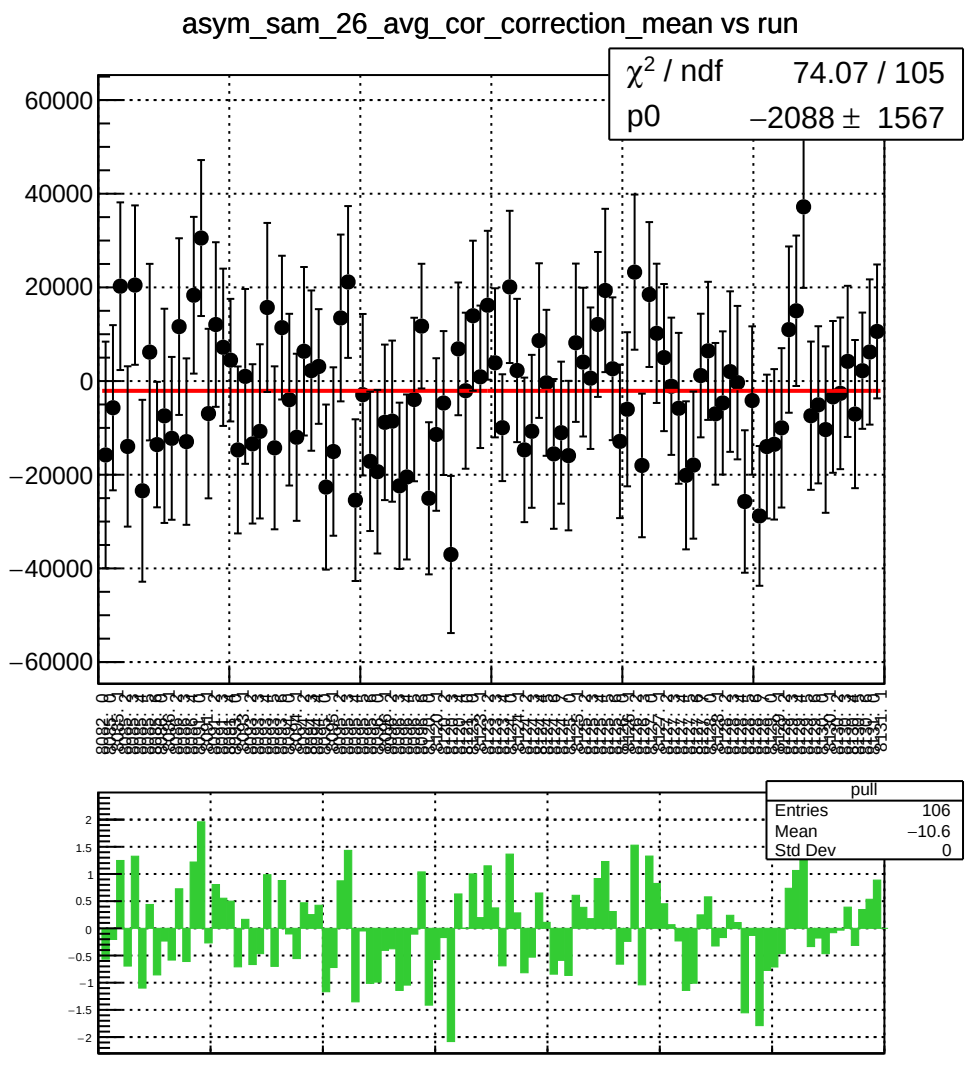

pull1D
Entries 106
Mean −0.005465
Std Dev 0.8359
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

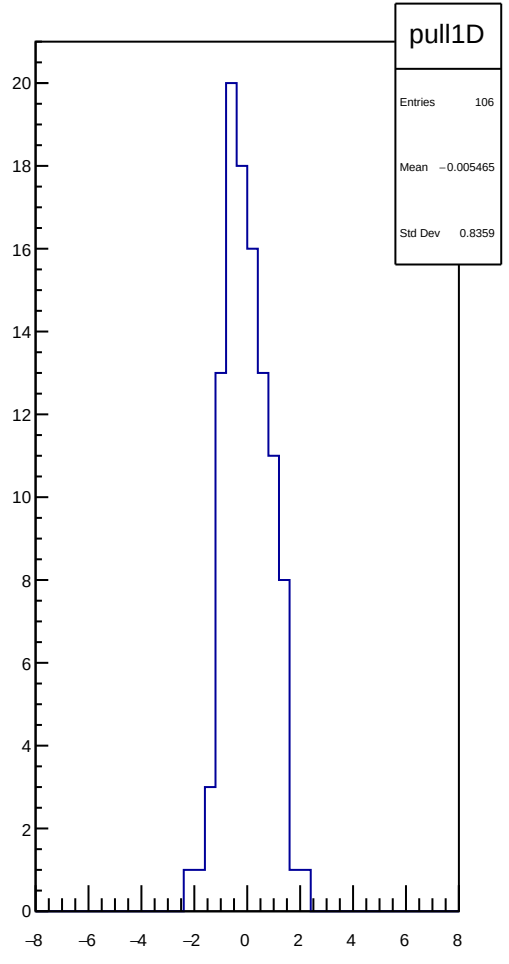

asym_sam_26_avg_reg_correction_rms vs run
$\chi^2$ / ndf 9231 / 105
p0 1573 ± 1.108
2200
2100
2000
1900
1800
1700
1600
1500
1400
1300

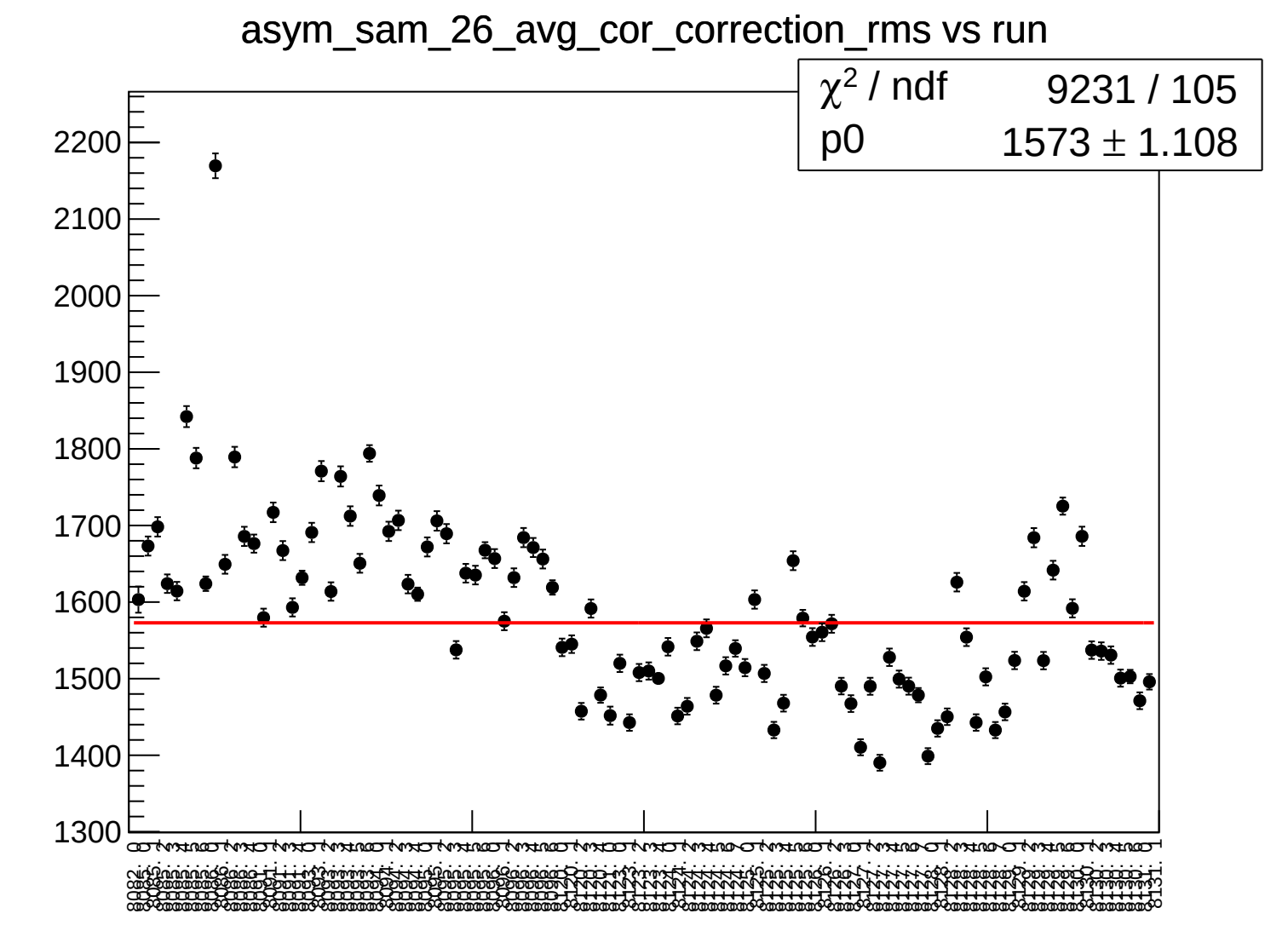

cor_asym_sam_26_avg_mean vs run
χ² / ndf 106.6 / 105
p0 −227.6 ± 148.8
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 106
Mean −1785
Std Dev 0
2
1
0
−1
−2

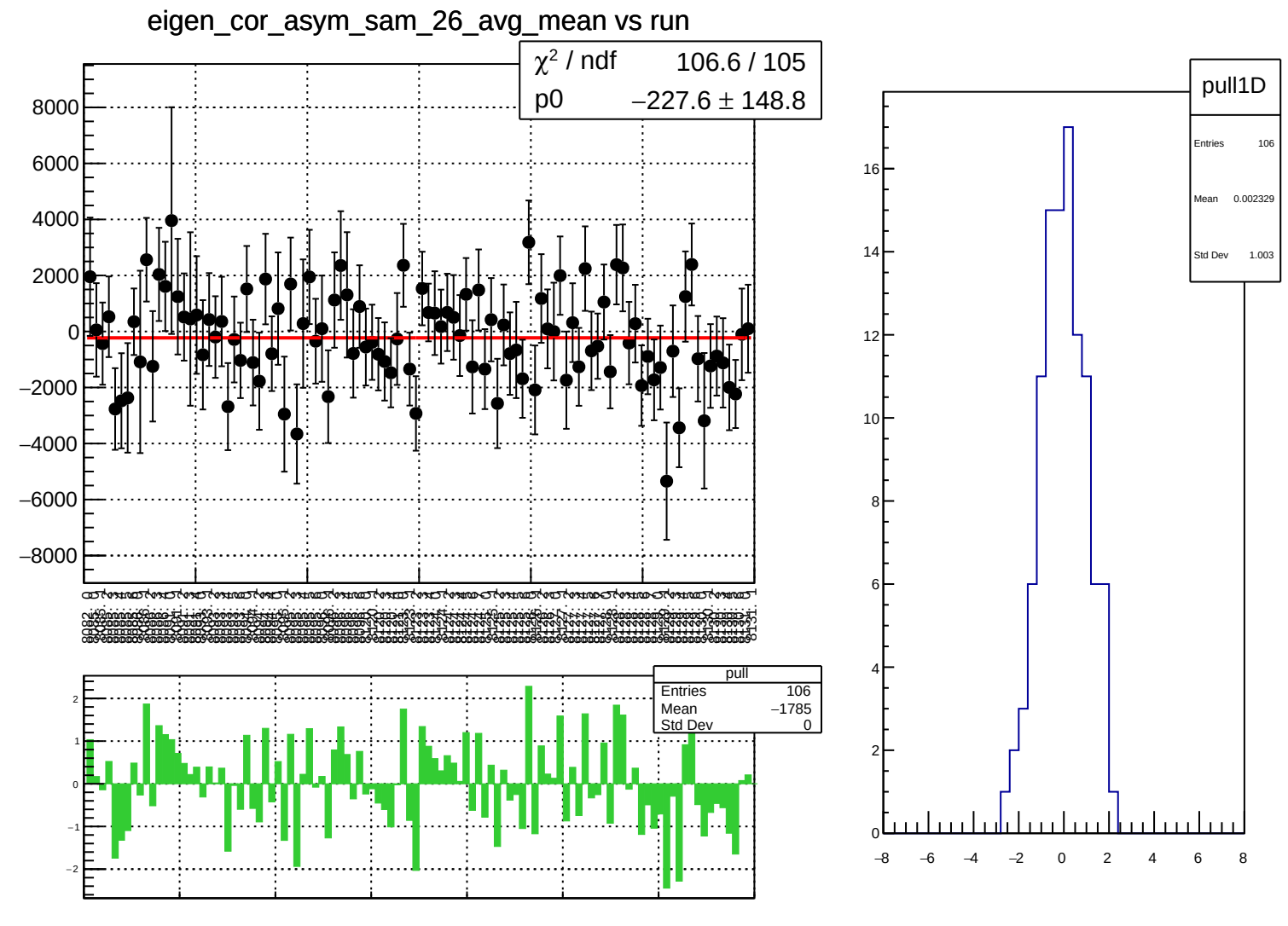

pull1D
Entries 106
Mean 0.002329
Std Dev 1.003
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

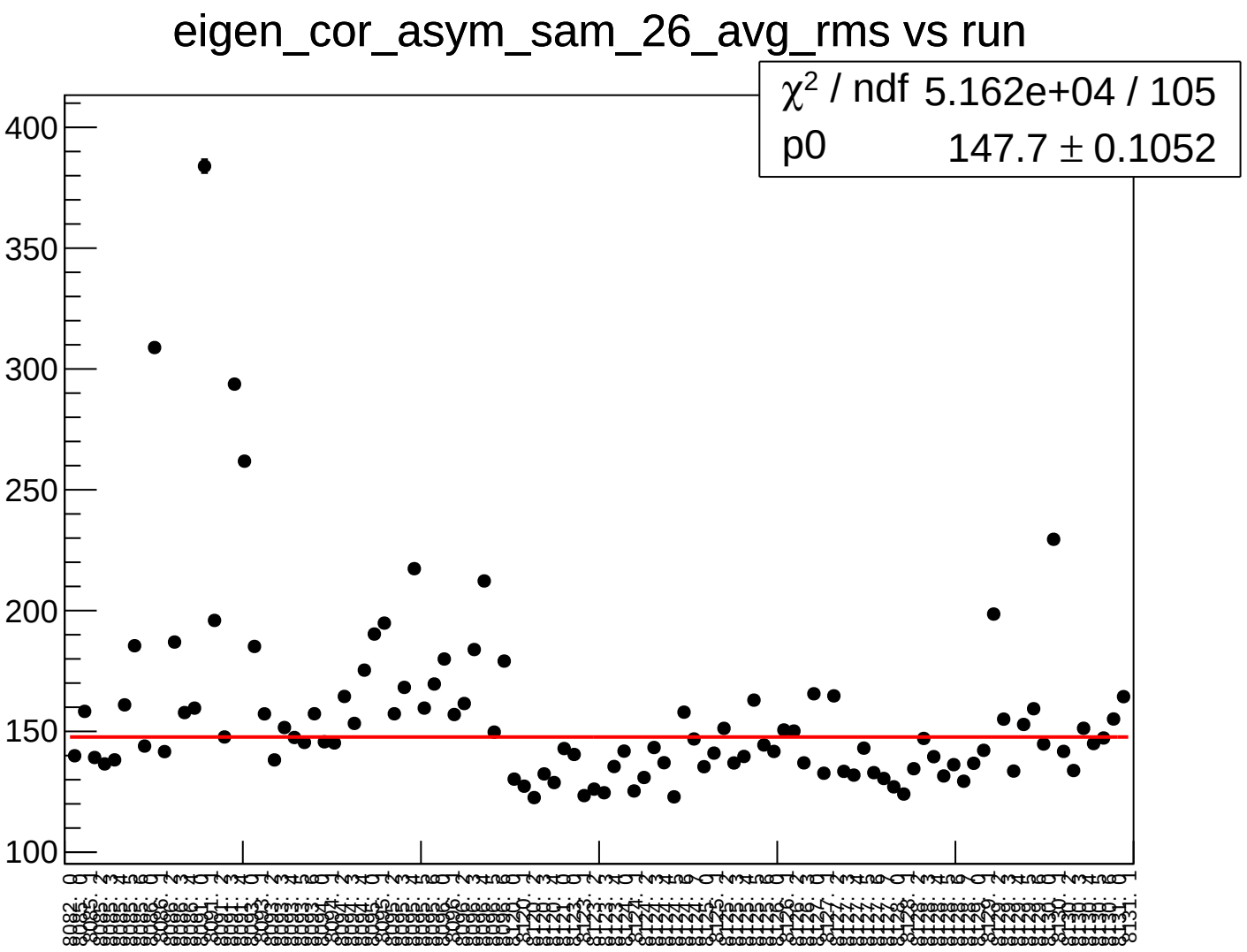

cor_asym_sam_26_avg_rms vs run
χ² / ndf 5.162e+04 / 105
p0 147.7 ± 0.1052
400
350
300
250
200
150
100

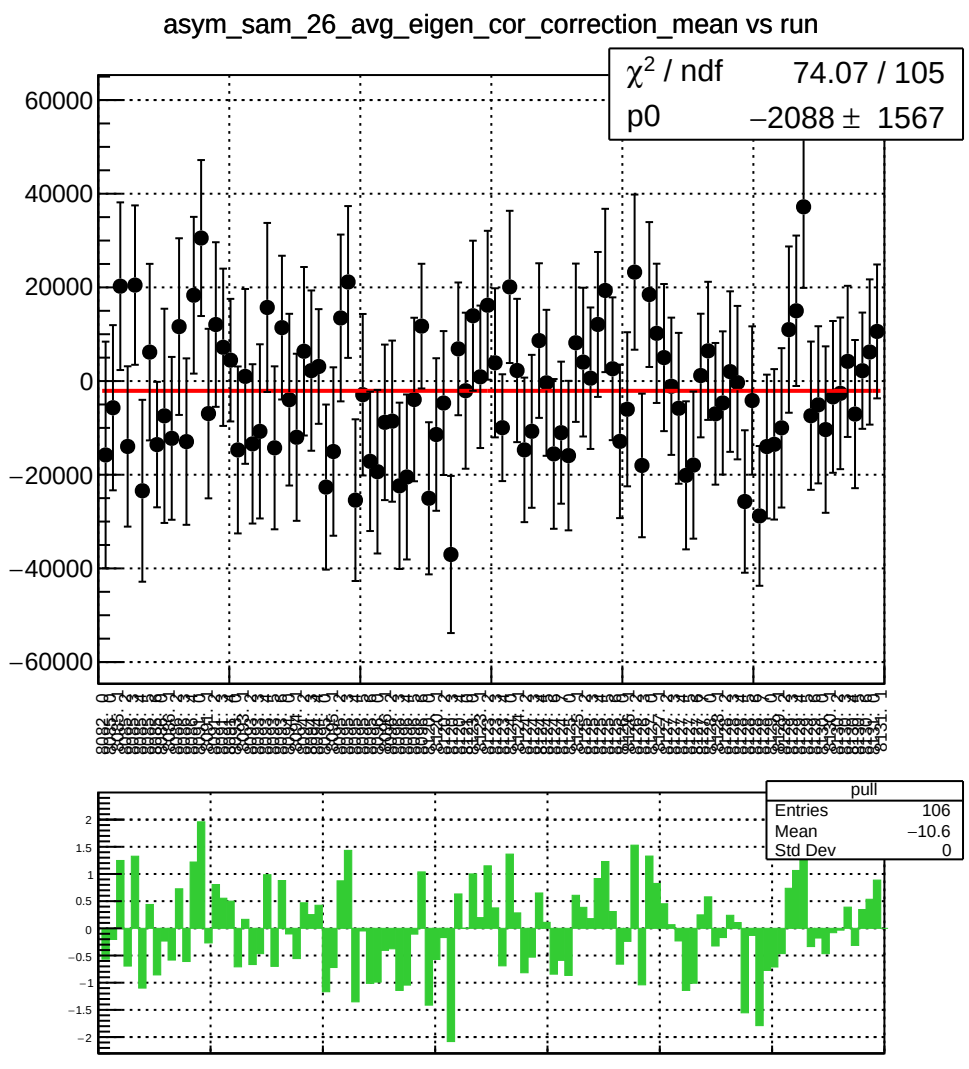

asym_sam_26_avg_cor_correction_mean vs run
χ² / ndf 74.07 / 105
p0 −2088 ± 1567
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean −10.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

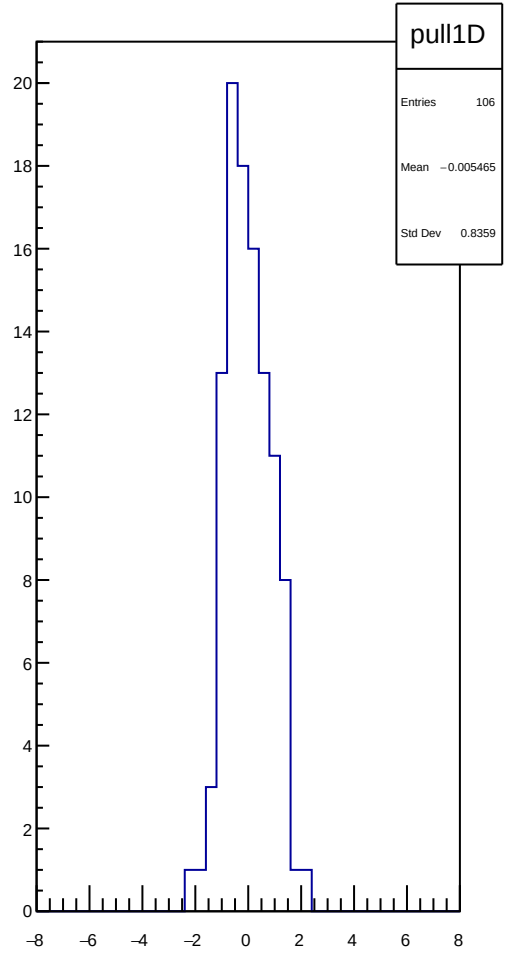

pull1D
Entries 106
Mean −0.005465
Std Dev 0.8359
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

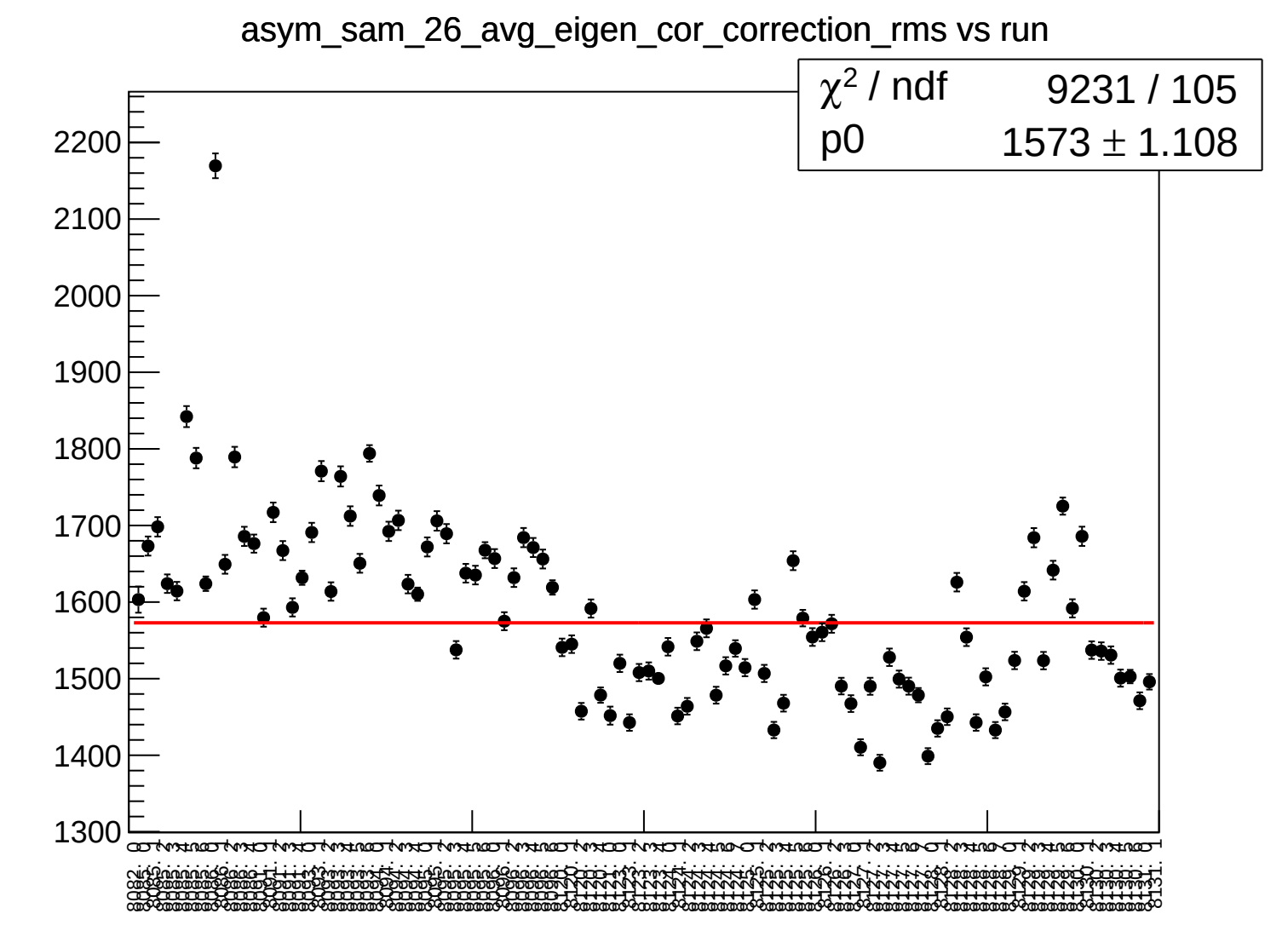

asym_sam_26_avg_cor_correction_rms vs run
$\chi^2$ / ndf 9231 / 105
p0 1573 ± 1.108
2200
2100
2000
1900
1800
1700
1600
1500
1400
1300

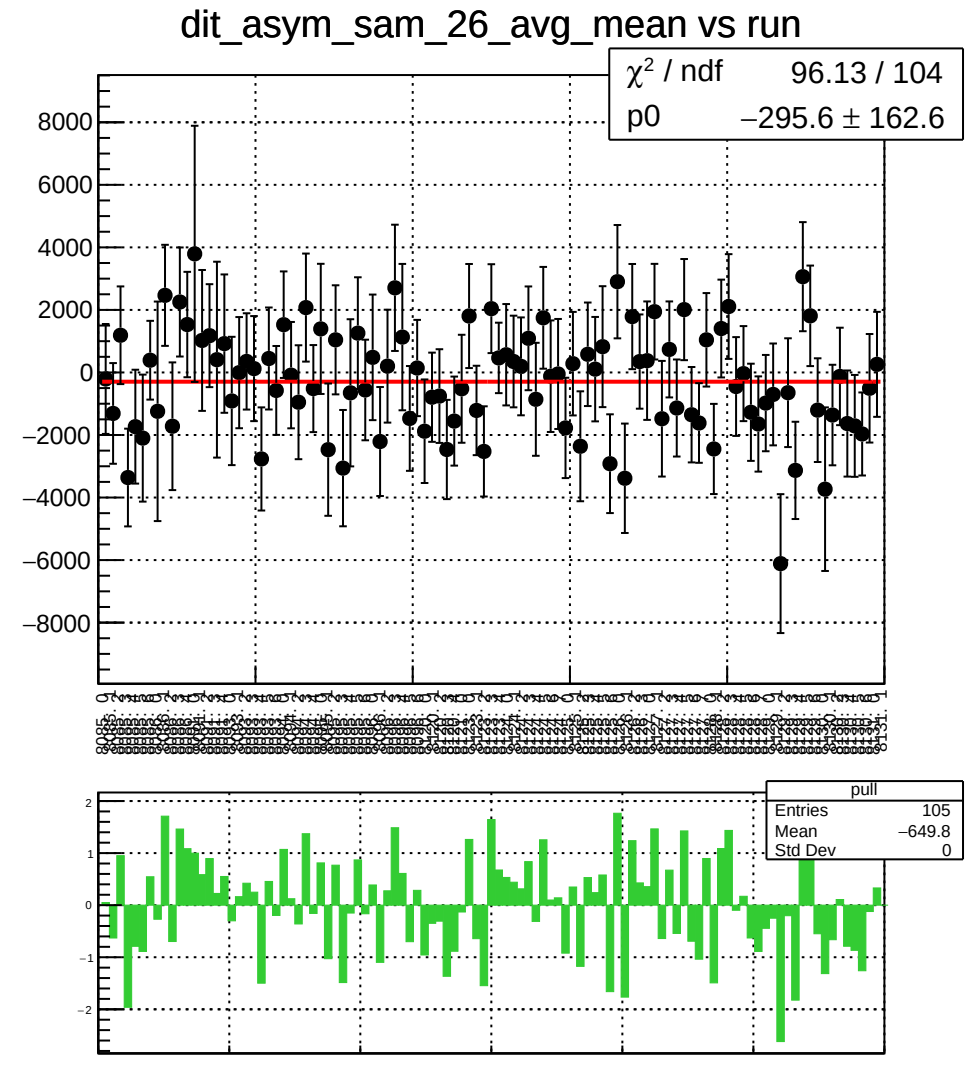

eigen_cor_asym_sam_26_avg_mean vs run
χ² / ndf 106.6 / 105
p0 −227.6 ± 148.8
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 106
Mean −1785
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 106
Mean 0.002329
Std Dev 1.003
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

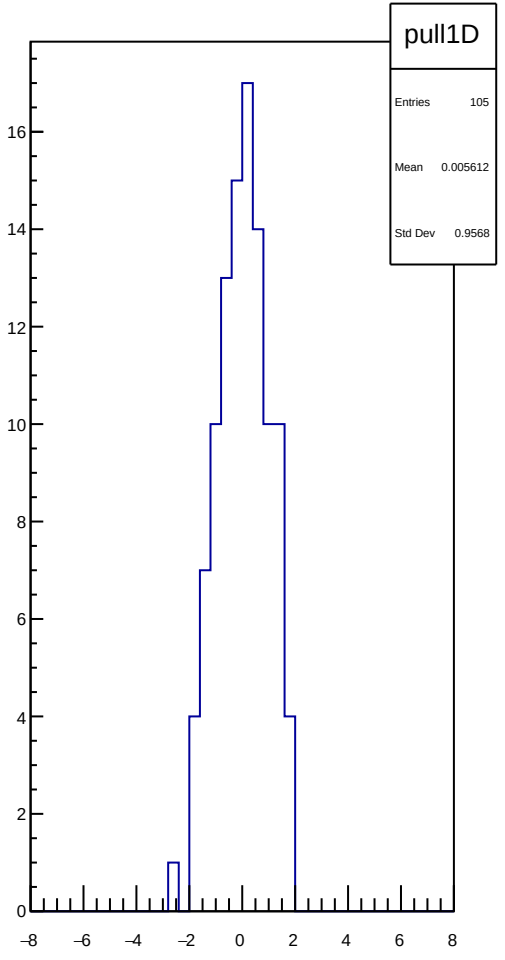

eigen_cor_asym_sam_26_avg_rms vs run
χ² / ndf 5.162e+04 / 105
p0 147.7 ± 0.1052
400
350
300
250
200
150
100

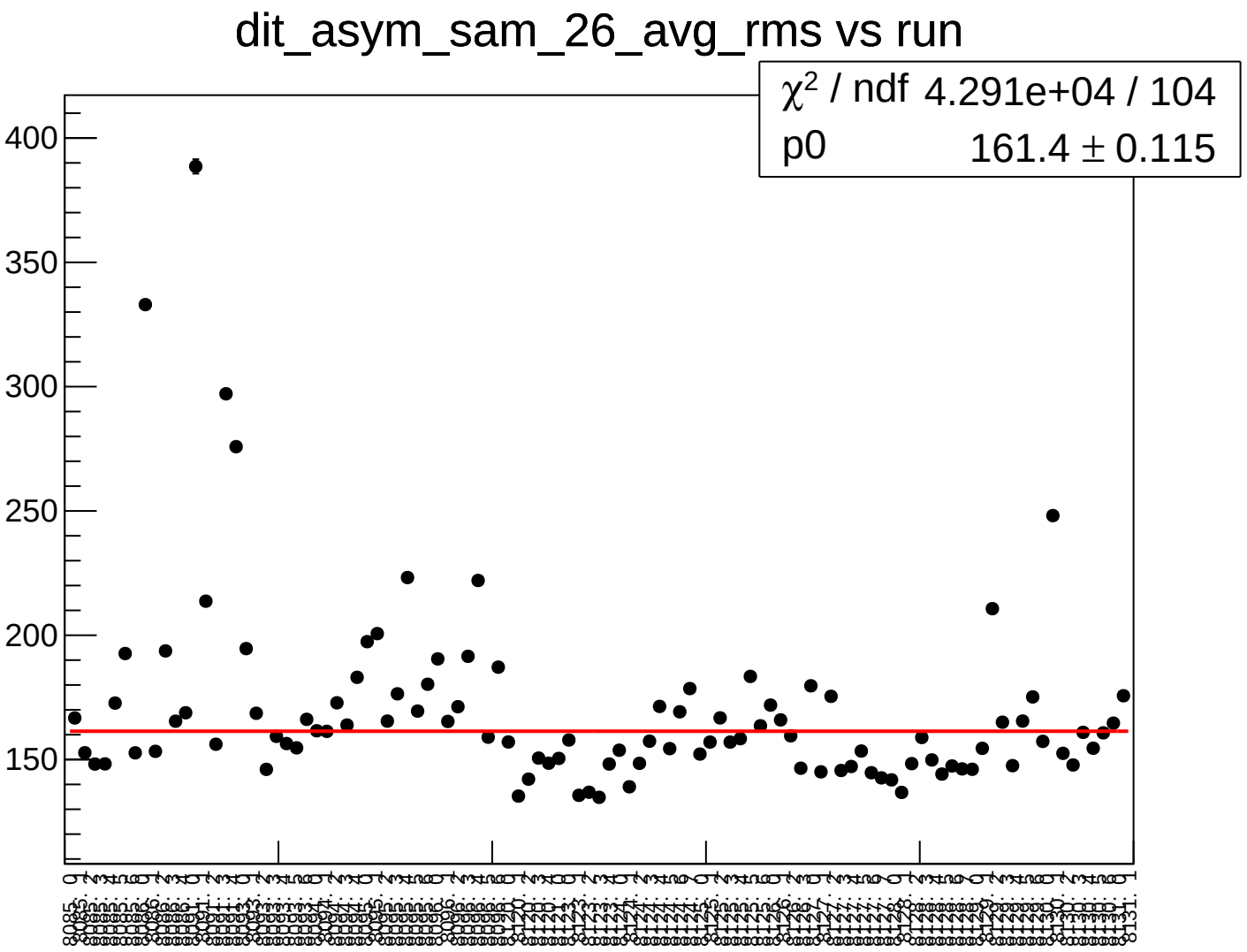

asym_sam_26_avg_eigen_cor_correction_mean vs run
χ² / ndf 74.07 / 105
p0 −2088 ± 1567
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean −10.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

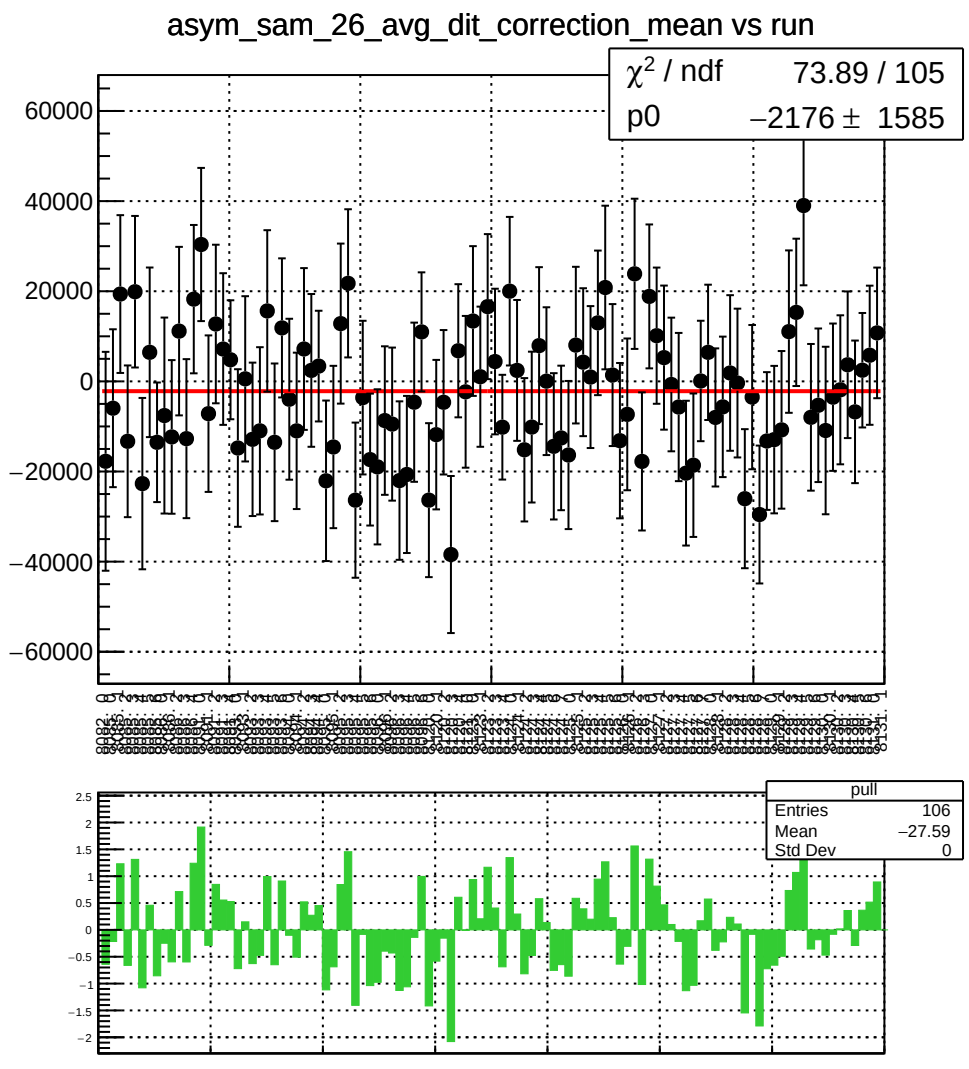

pull1D
Entries 106
Mean −0.005465
Std Dev 0.8359
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

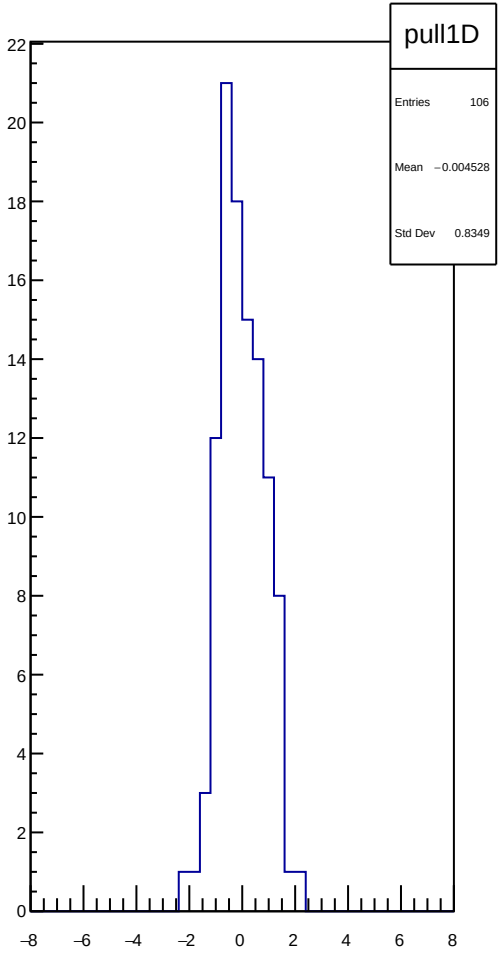

asym_sam_26_avg_eigen_cor_correction_rms vs run
$\chi^2$ / ndf 9231 / 105
p0 1573 ± 1.108
2200
2100
2000
1900
1800
1700
1600
1500
1400
1300

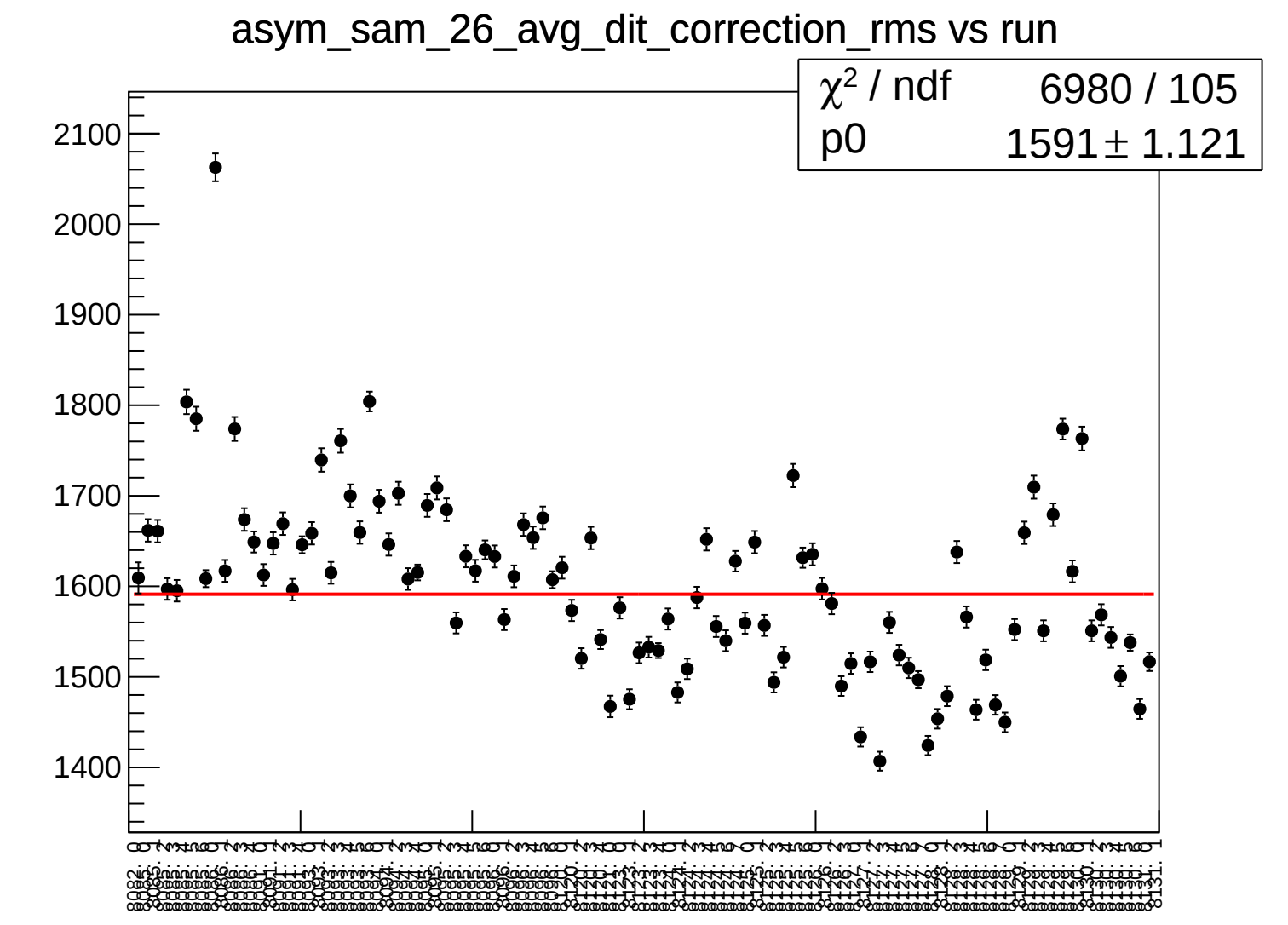

dit_asym_sam_26_avg_mean vs run
χ² / ndf 96.13 / 104
p0 −295.6 ± 162.6
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 105
Mean −649.8
Std Dev 0
2
1
0
−1
−2

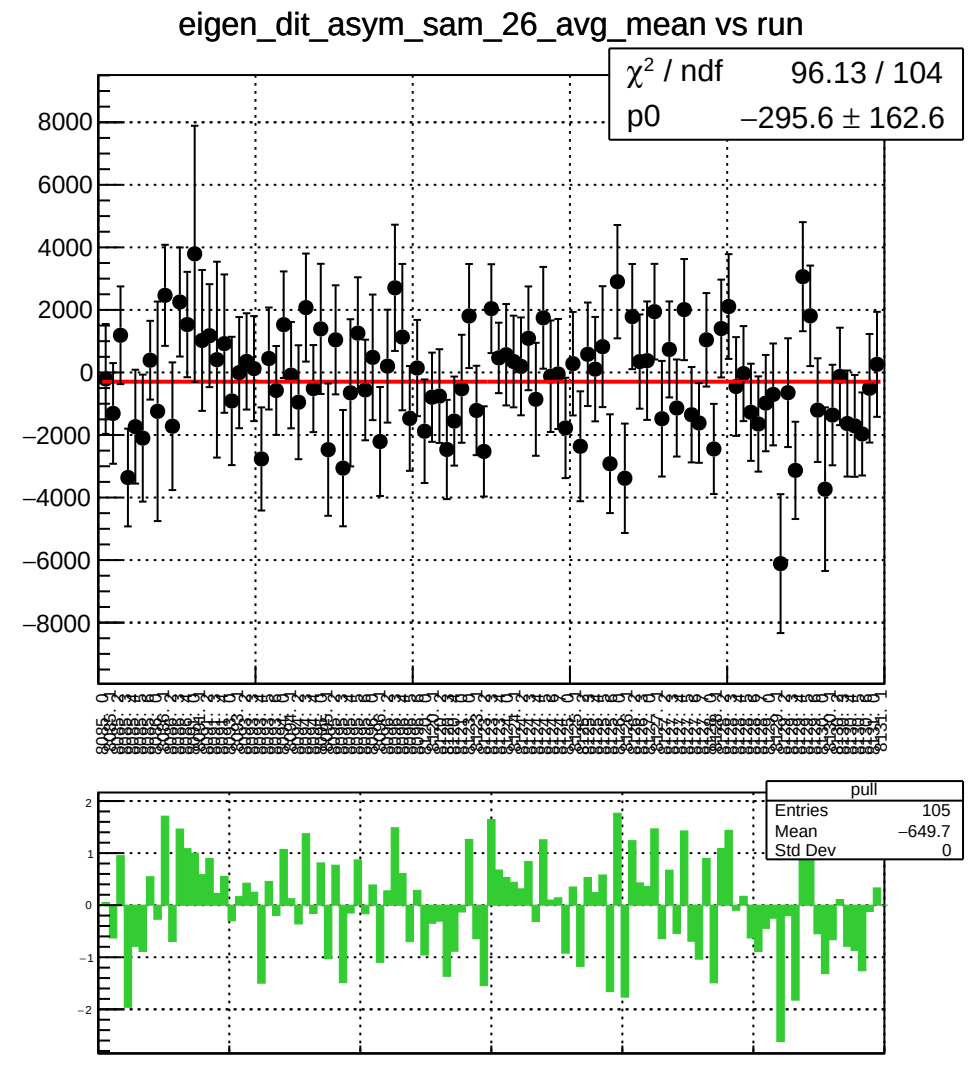

pull1D
Entries 105
Mean 0.005612
Std Dev 0.9568
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

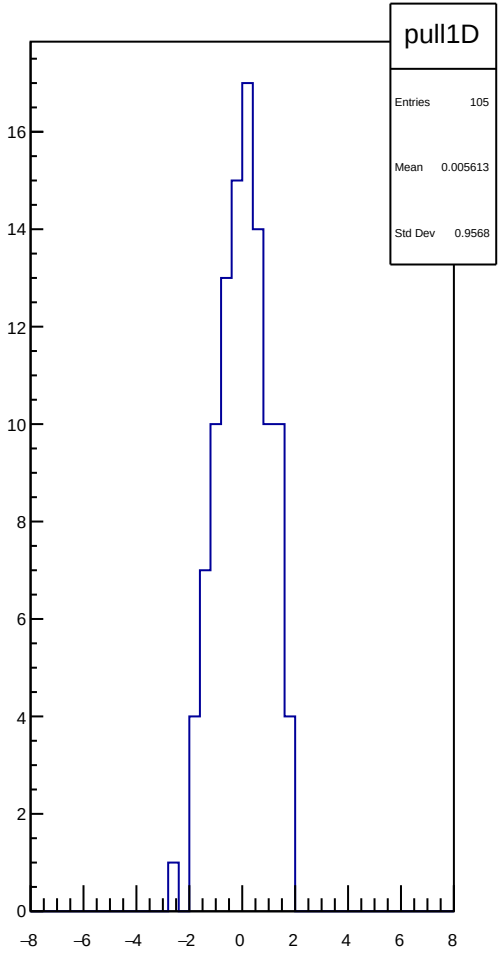

dit_asym_sam_26_avg_rms vs run
χ² / ndf 4.291e+04 / 104
p0 161.4 ± 0.115
400
350
300
250
200
150

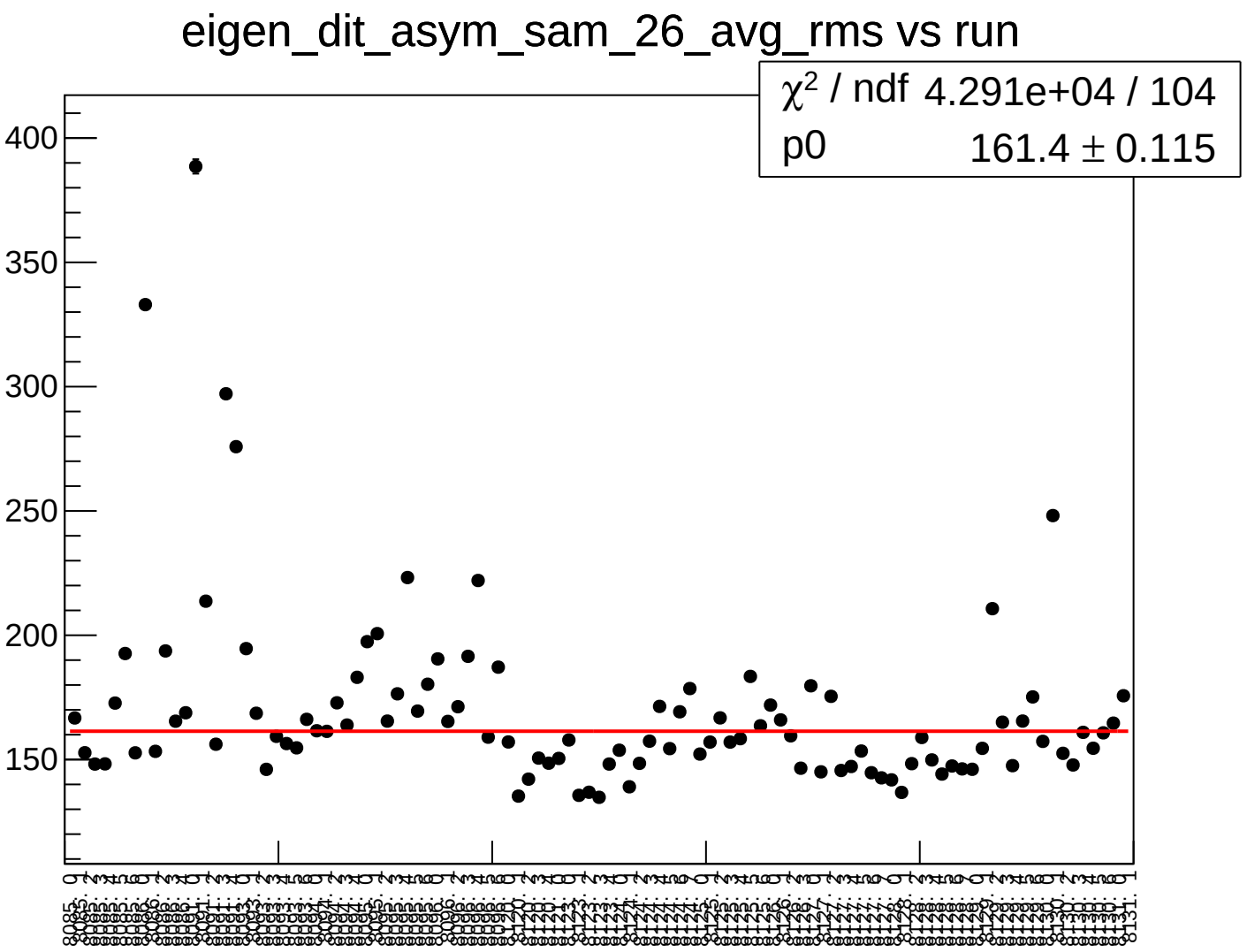

asym_sam_26_avg_dit_correction_mean vs run
χ² / ndf 73.89 / 105
p0 −2176 ± 1585
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean −27.59
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

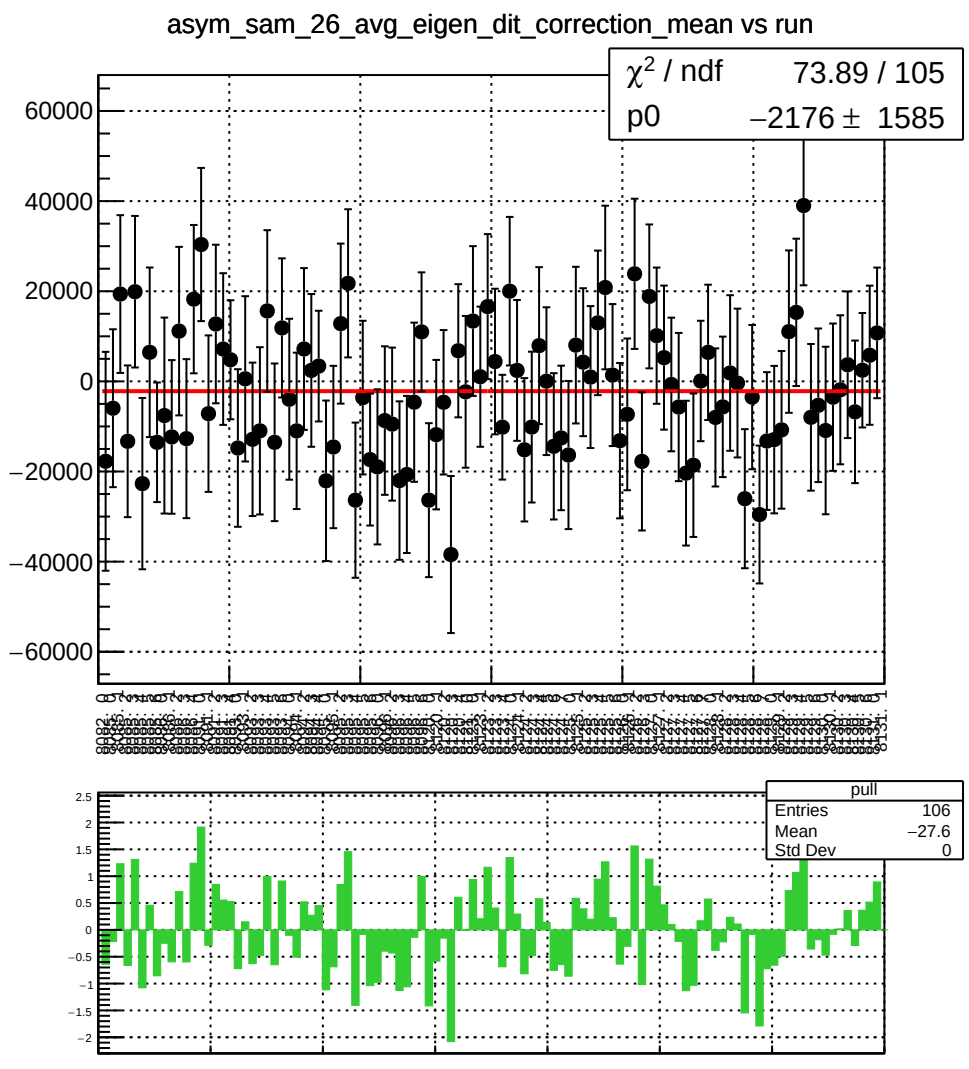

pull1D
Entries 106
Mean −0.004528
Std Dev 0.8349
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

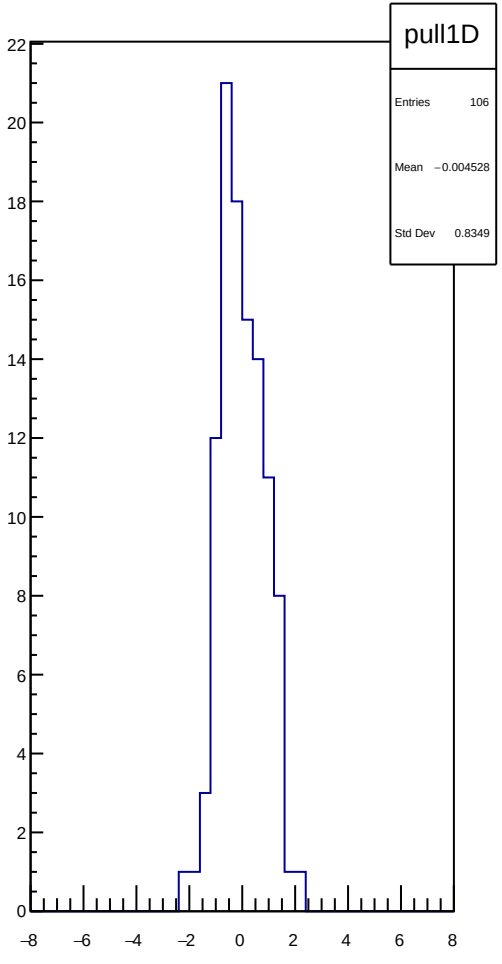

asym_sam_26_avg_dit_correction_rms vs run
χ² / ndf 6980 / 105
p0 1591 ± 1.121
2100
2000
1900
1800
1700
1600
1500
1400

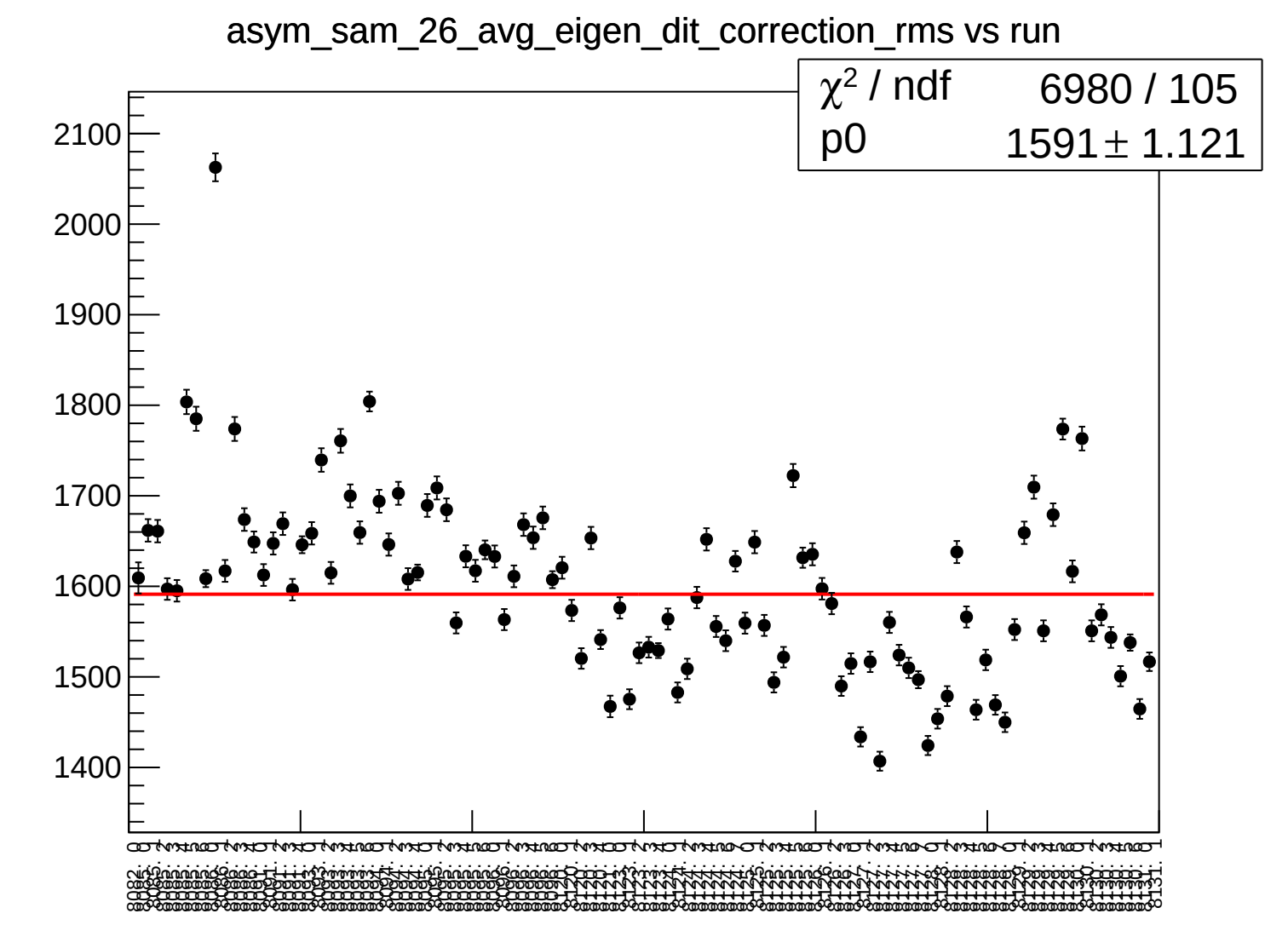

eigen_dit_asym_sam_26_avg_mean vs run
χ² / ndf 96.13 / 104
p0 −295.6 ± 162.6
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 105
Mean −649.7
Std Dev 0
2
1
0
−1
−2

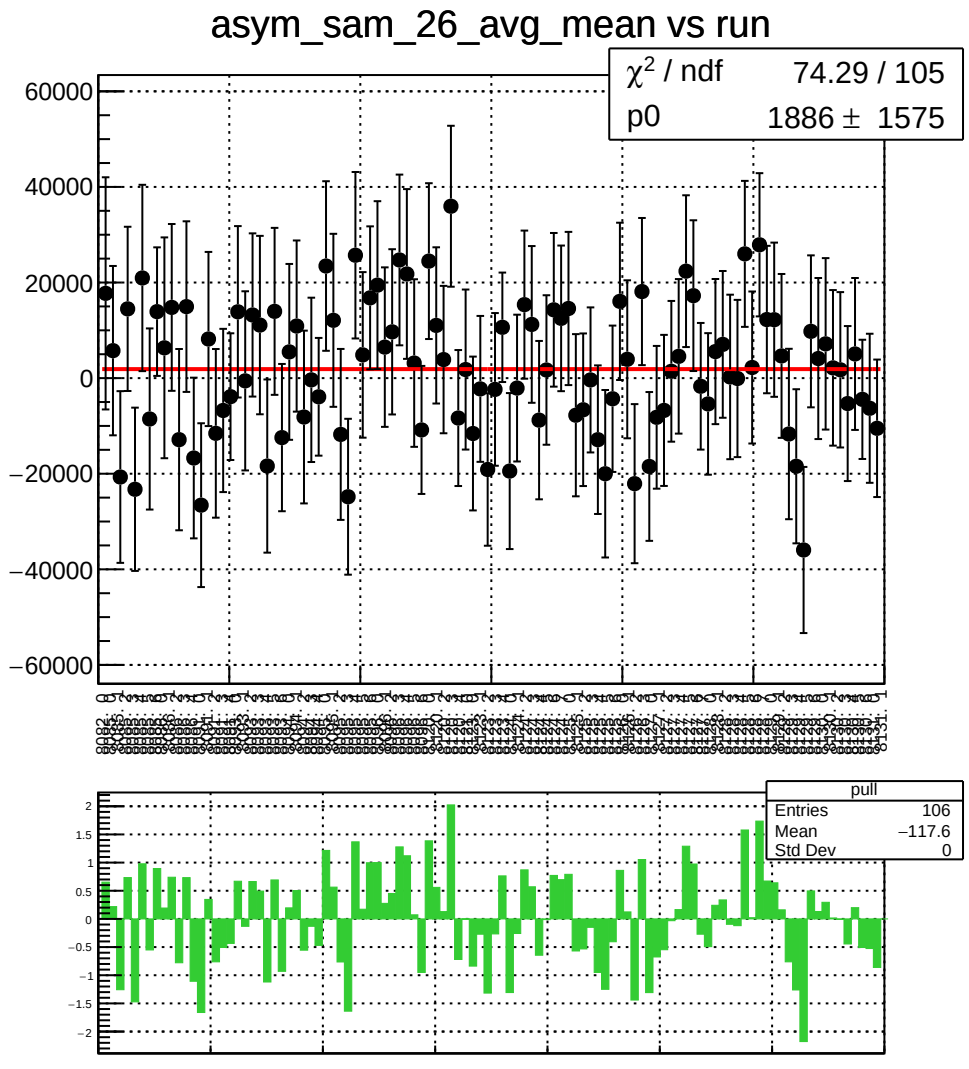

pull1D
Entries 105
Mean 0.005613
Std Dev 0.9568
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

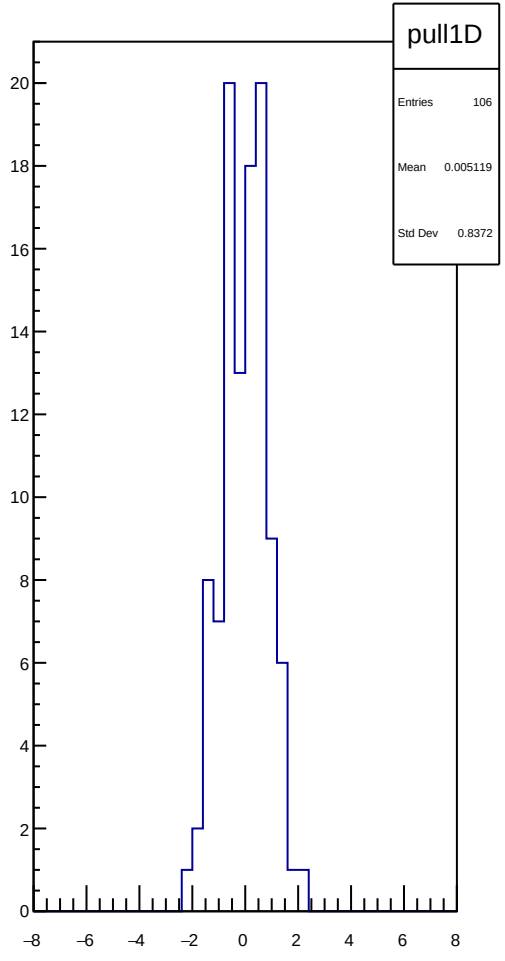

eigen_dit_asym_sam_26_avg_rms vs run
χ² / ndf 4.291e+04 / 104
p0 161.4 ± 0.115
400
350
300
250
200
150

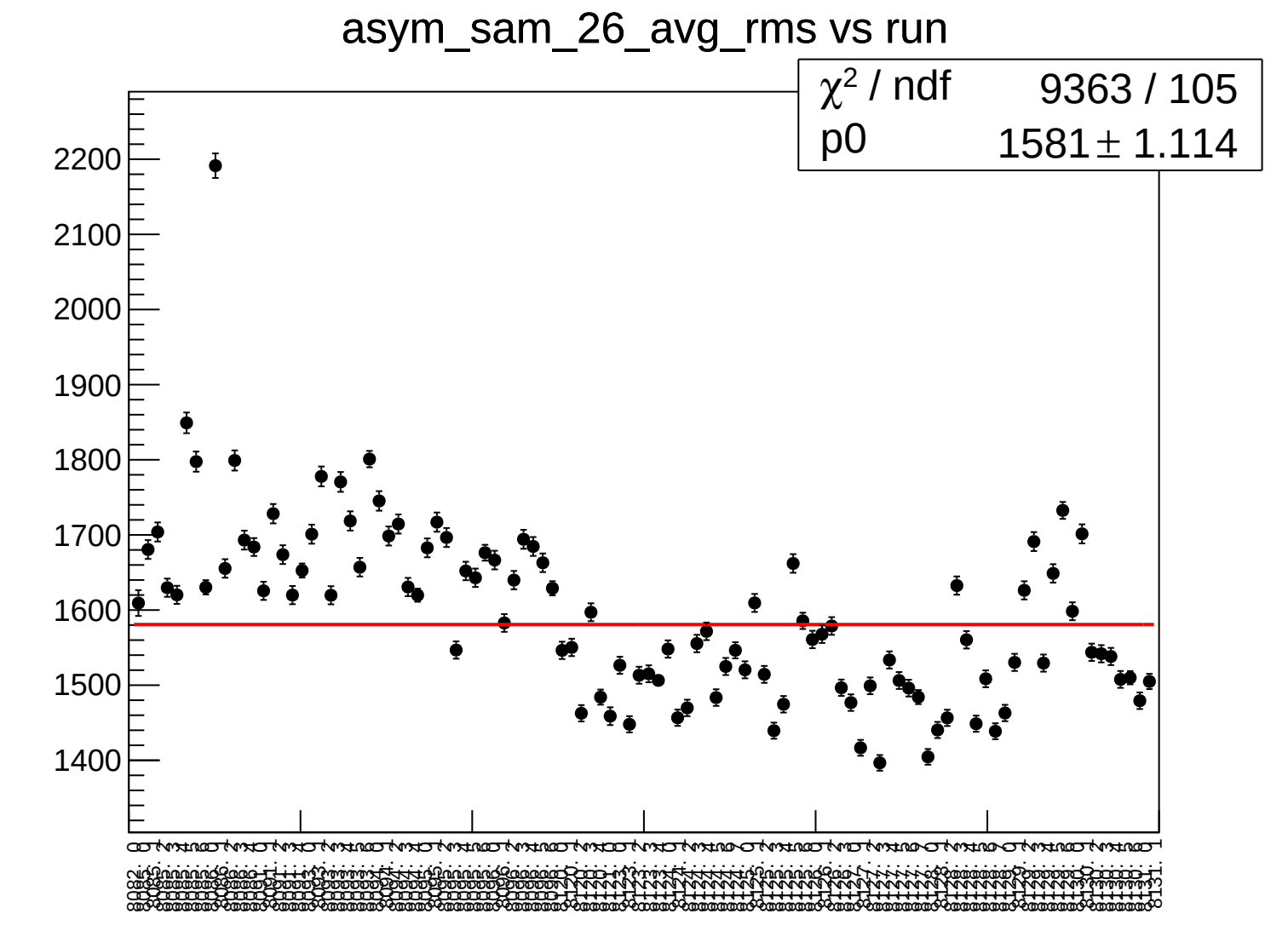

asym_sam_26_avg_eigen_dit_correction_mean vs run
χ² / ndf 73.89 / 105
p0 −2176 ± 1585
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean −27.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

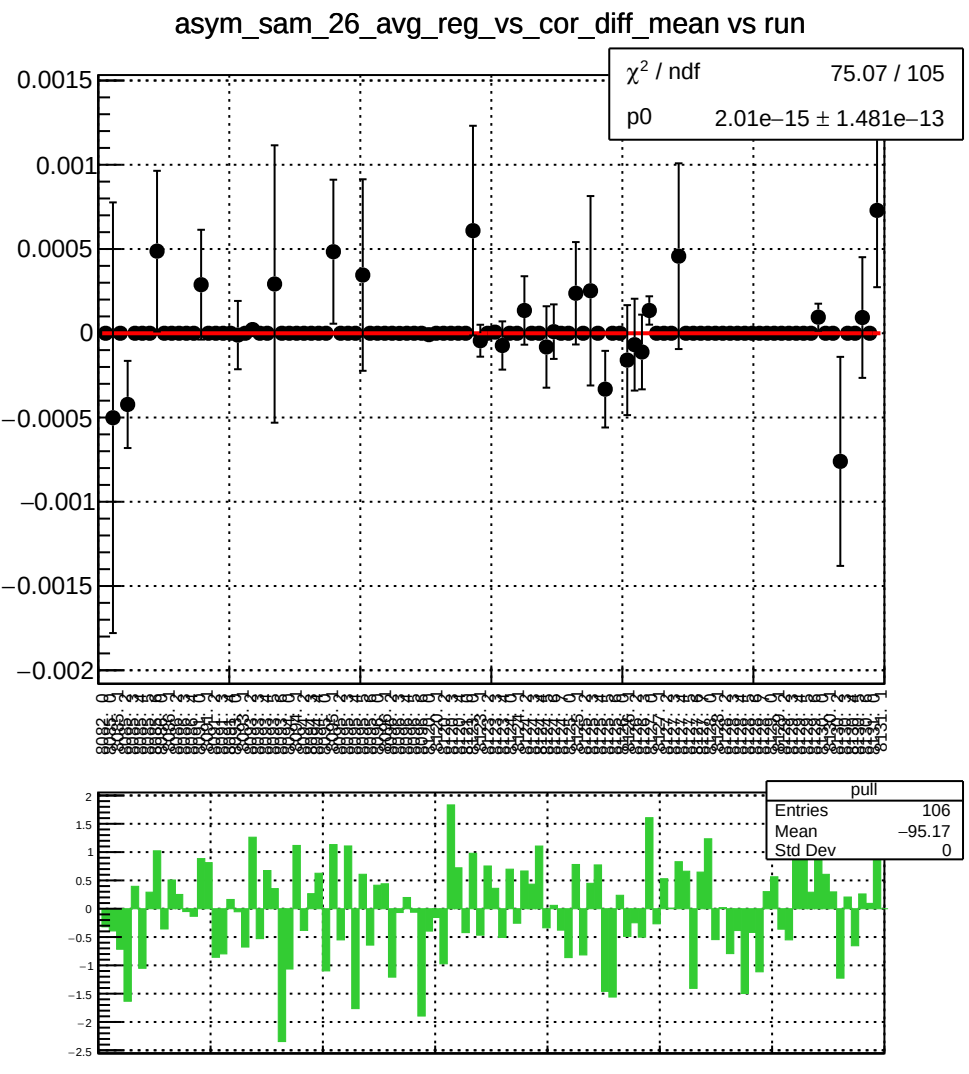

pull1D
Entries 106
Mean −0.004528
Std Dev 0.8349
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

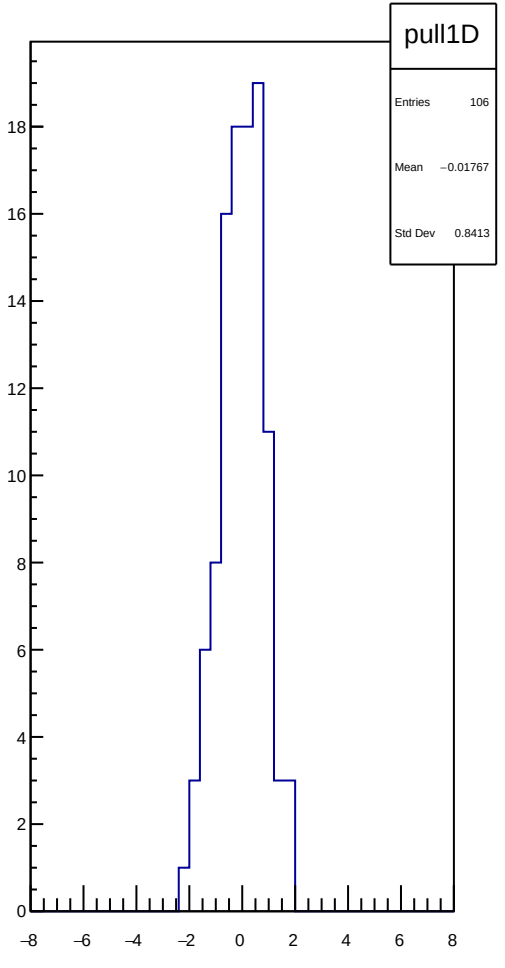

asym_sam_26_avg_eigen_dit_correction_rms vs run
χ² / ndf 6980 / 105
p0 1591 ± 1.121
2100
2000
1900
1800
1700
1600
1500
1400

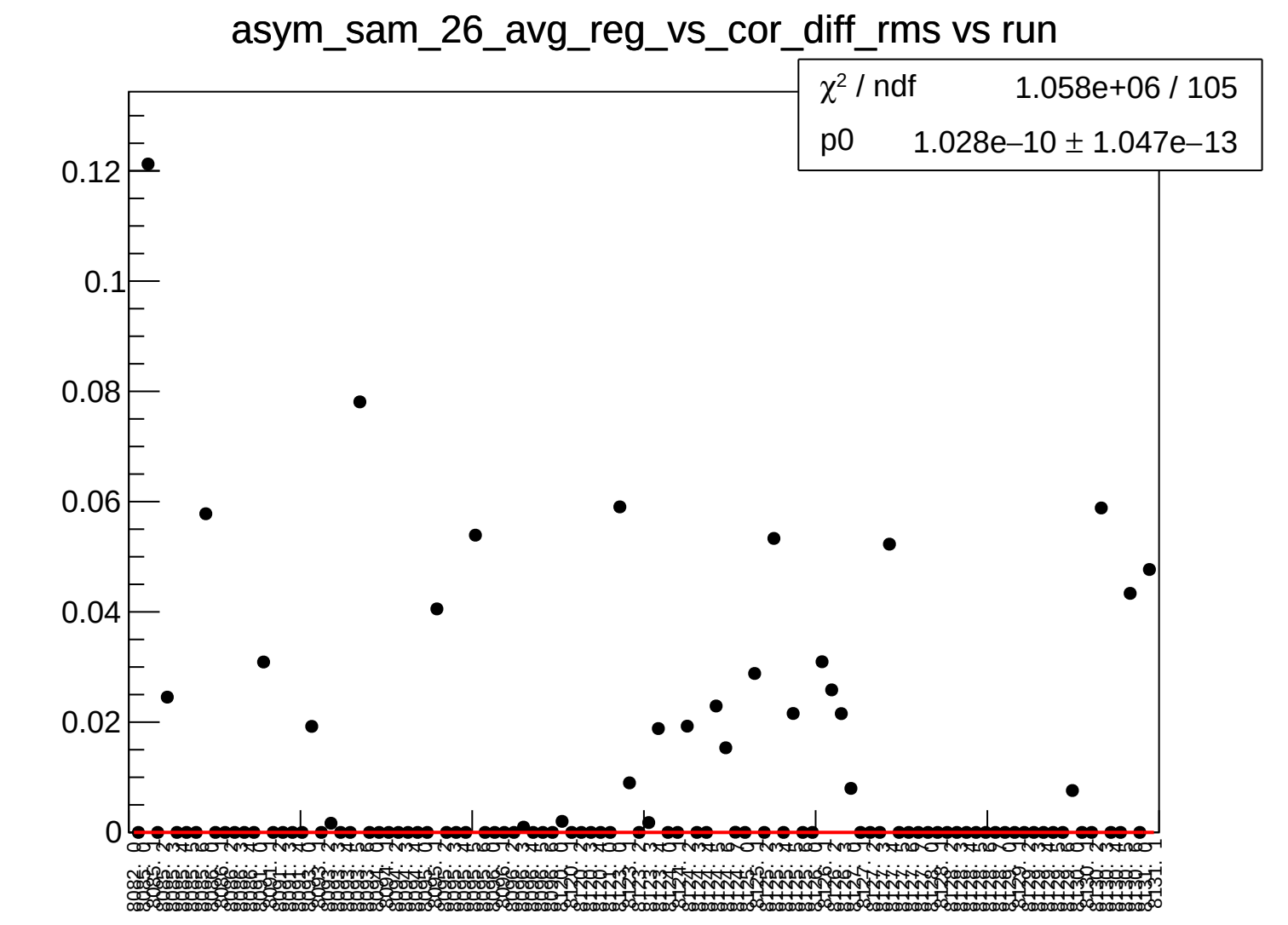

asym_sam_26_avg_mean vs run
χ² / ndf 74.29 / 105
p0 1886 ± 1575
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean −117.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

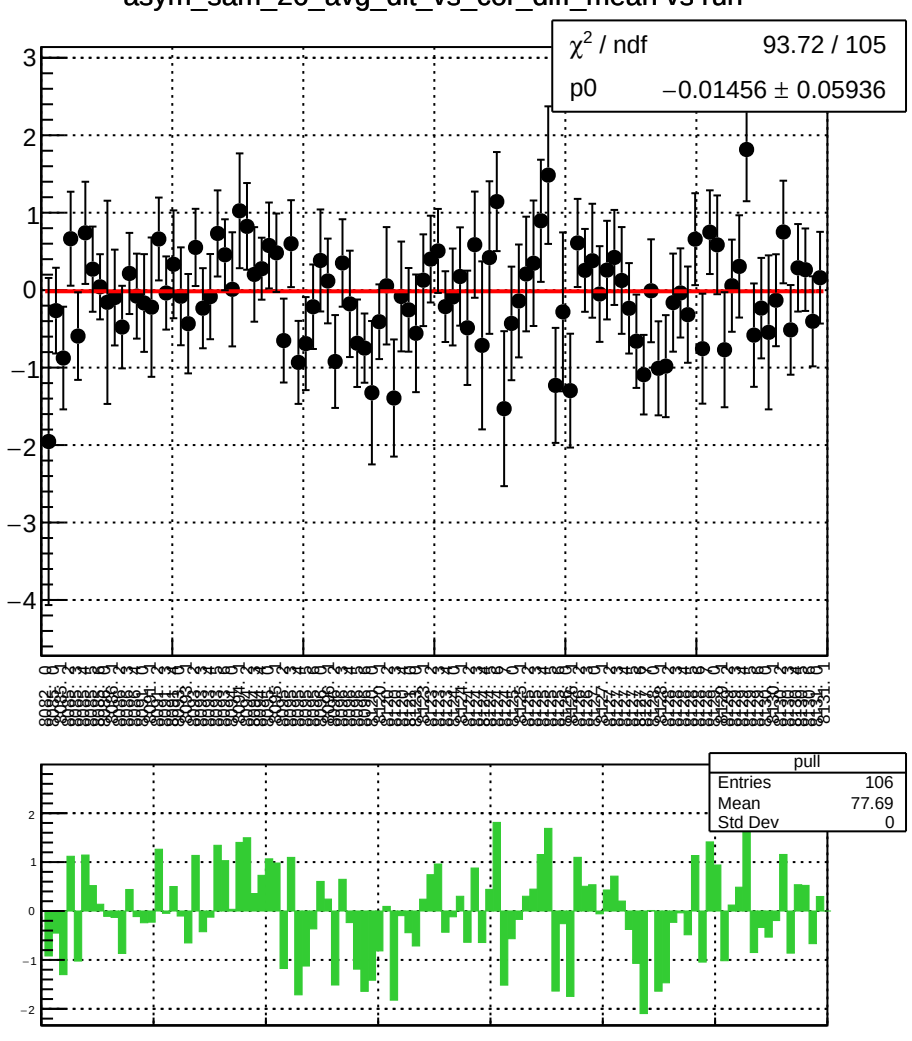

pull1D
Entries 106
Mean 0.005119
Std Dev 0.8372
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

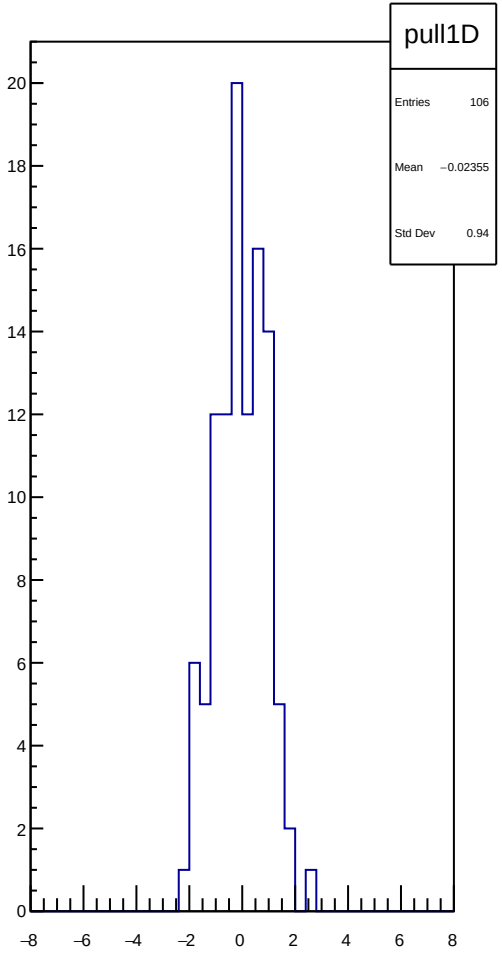

asym_sam_26_avg_rms vs run
$\chi^2$ / ndf 9363 / 105
p0 1581 ± 1.114
2200
2100
2000
1900
1800
1700
1600
1500
1400

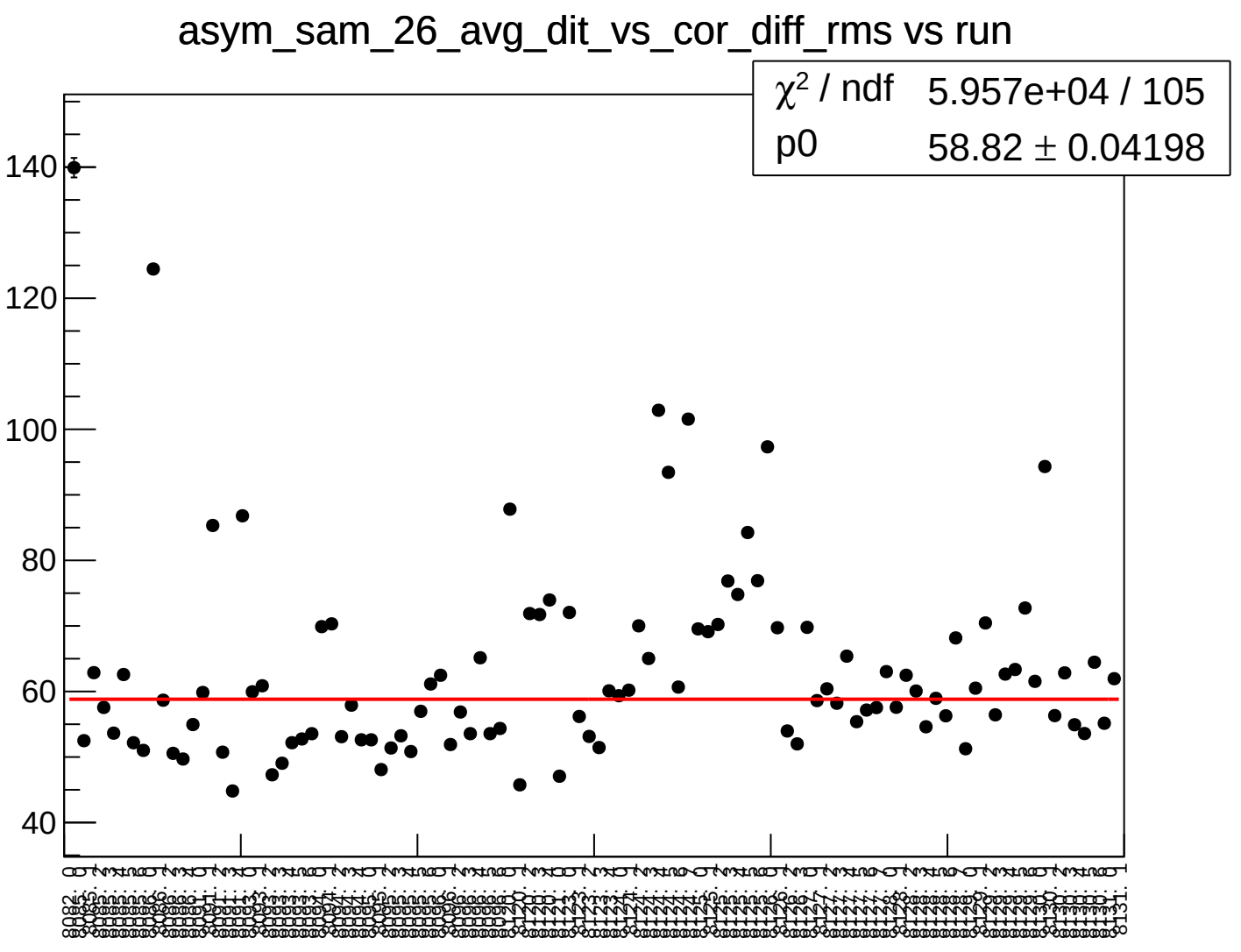

asym_sam_26_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 75.07 / 105
p0 2.01e−15 ± 1.481e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 106
Mean −95.17
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

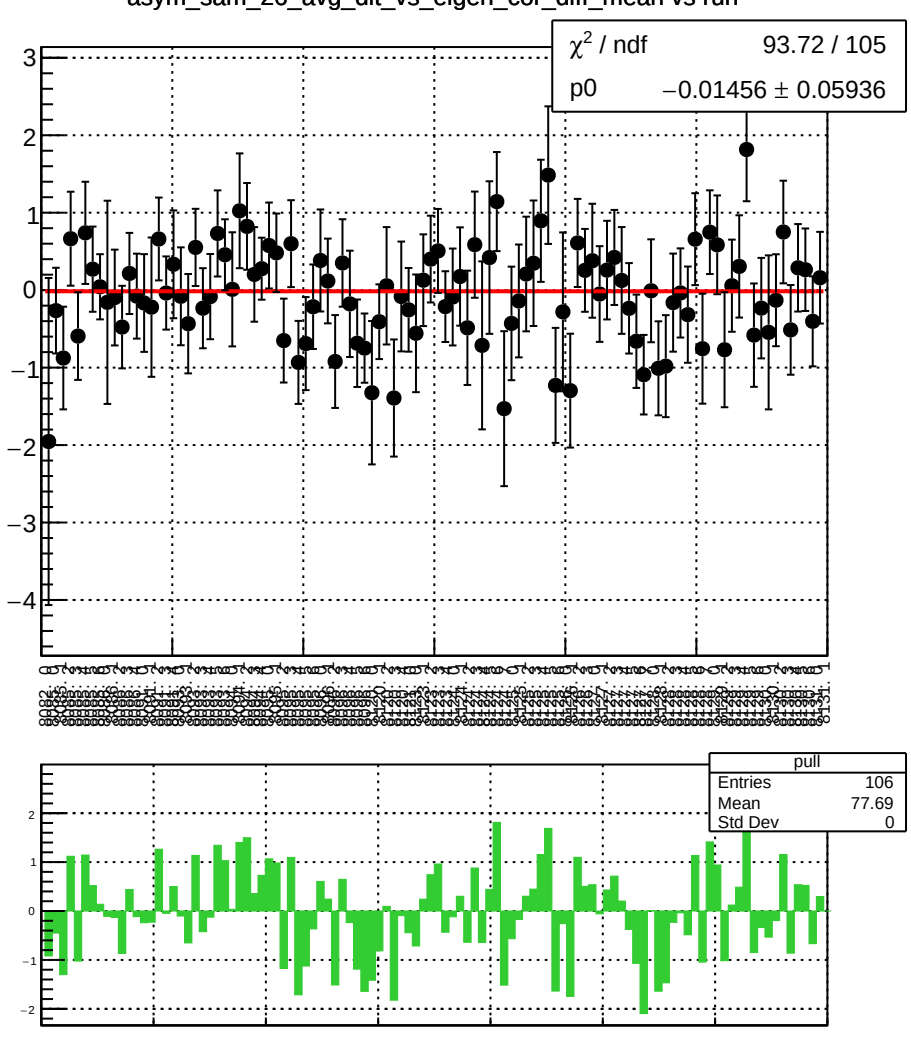

pull1D
Entries 106
Mean −0.01767
Std Dev 0.8413
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

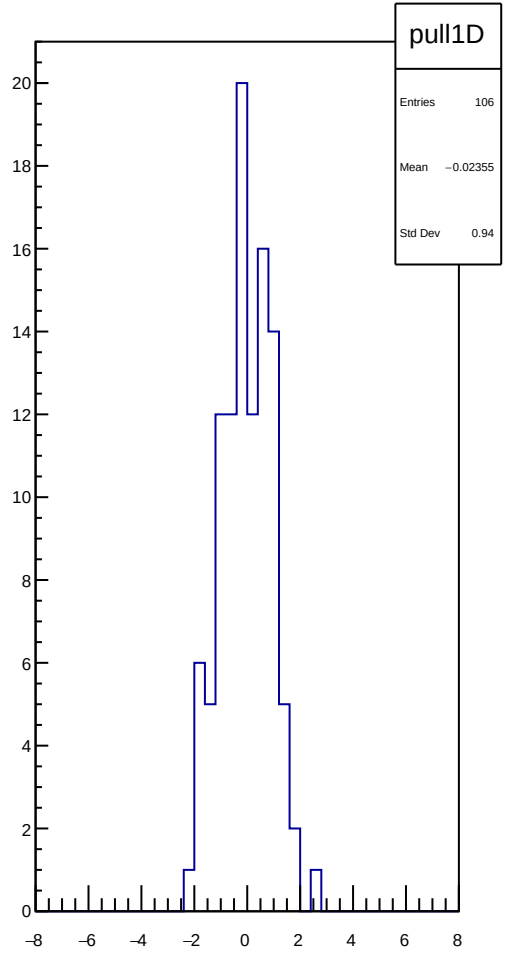

asym_sam_26_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.058e+06 / 105
p0 1.028e−10 ± 1.047e−13
0.12
0.1
0.08
0.06
0.04
0.02
0

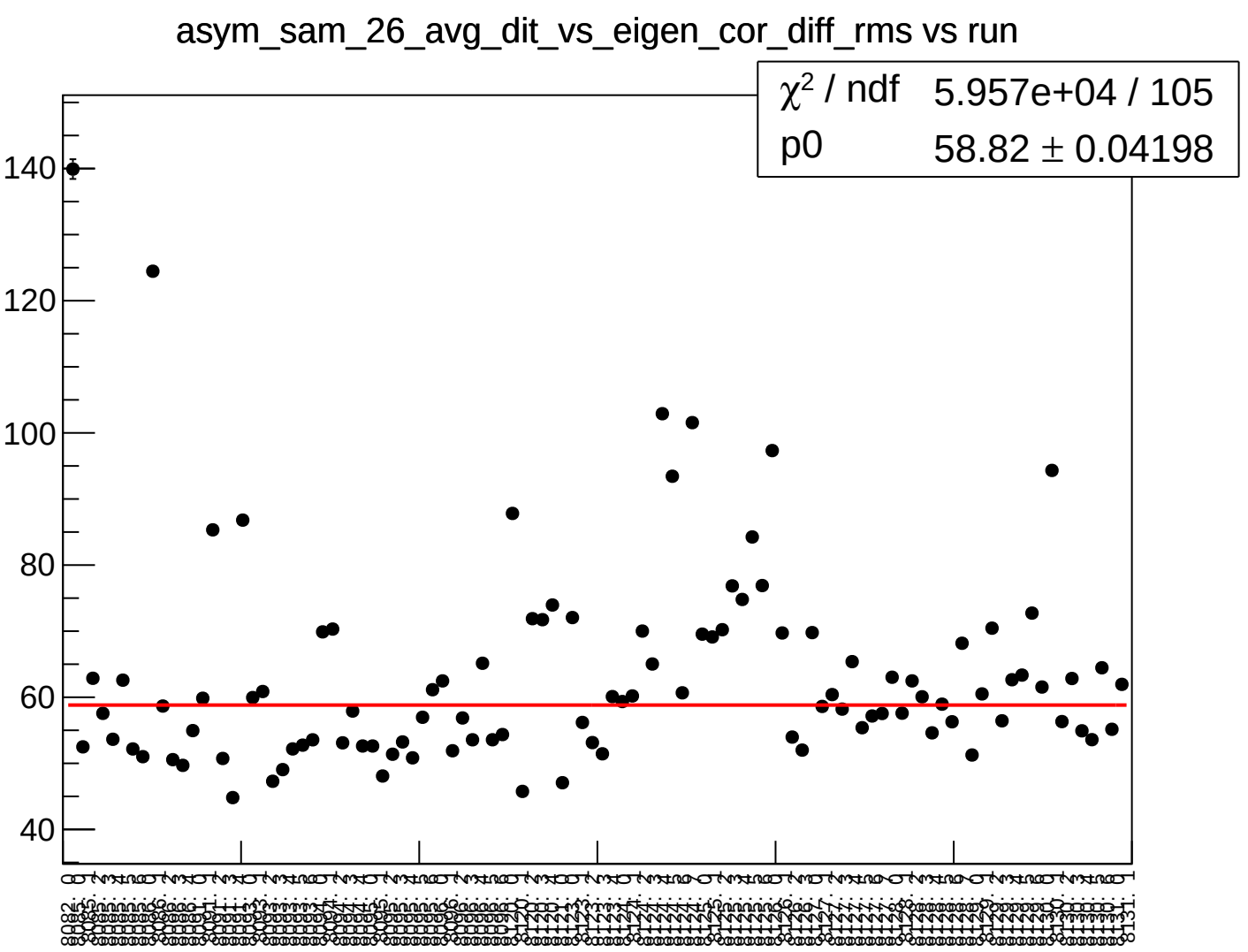

asym_sam_26_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 93.72 / 105
p0 −0.01456 ± 0.05936
pull
Entries 106
Mean 77.69
Std Dev 0

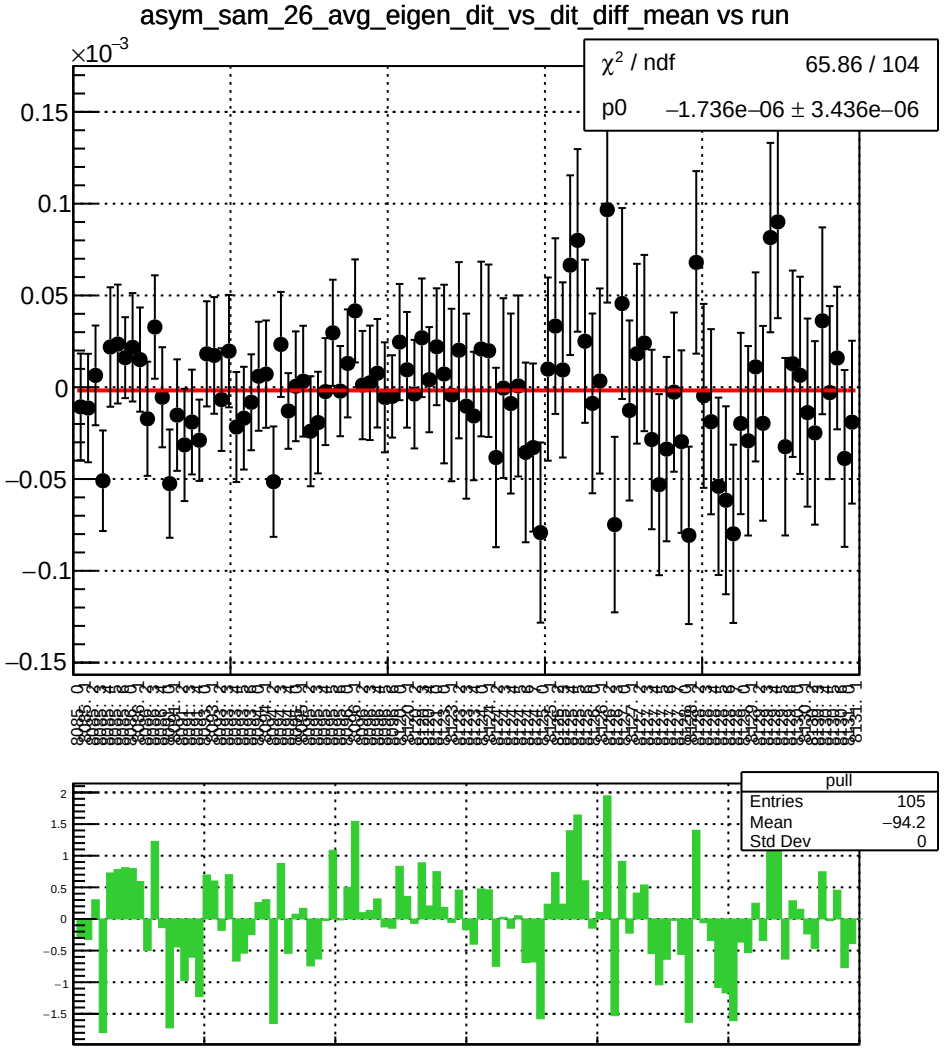

pull1D
Entries 106
Mean −0.02355
Std Dev 0.94

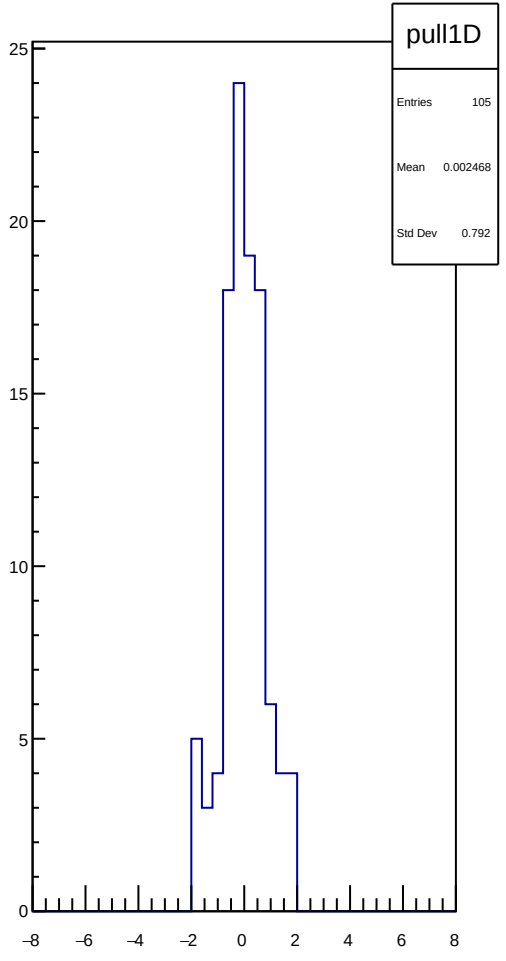

asym_sam_26_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.957e+04 / 105
p0 58.82 ± 0.04198
140
120
100
80
60
40

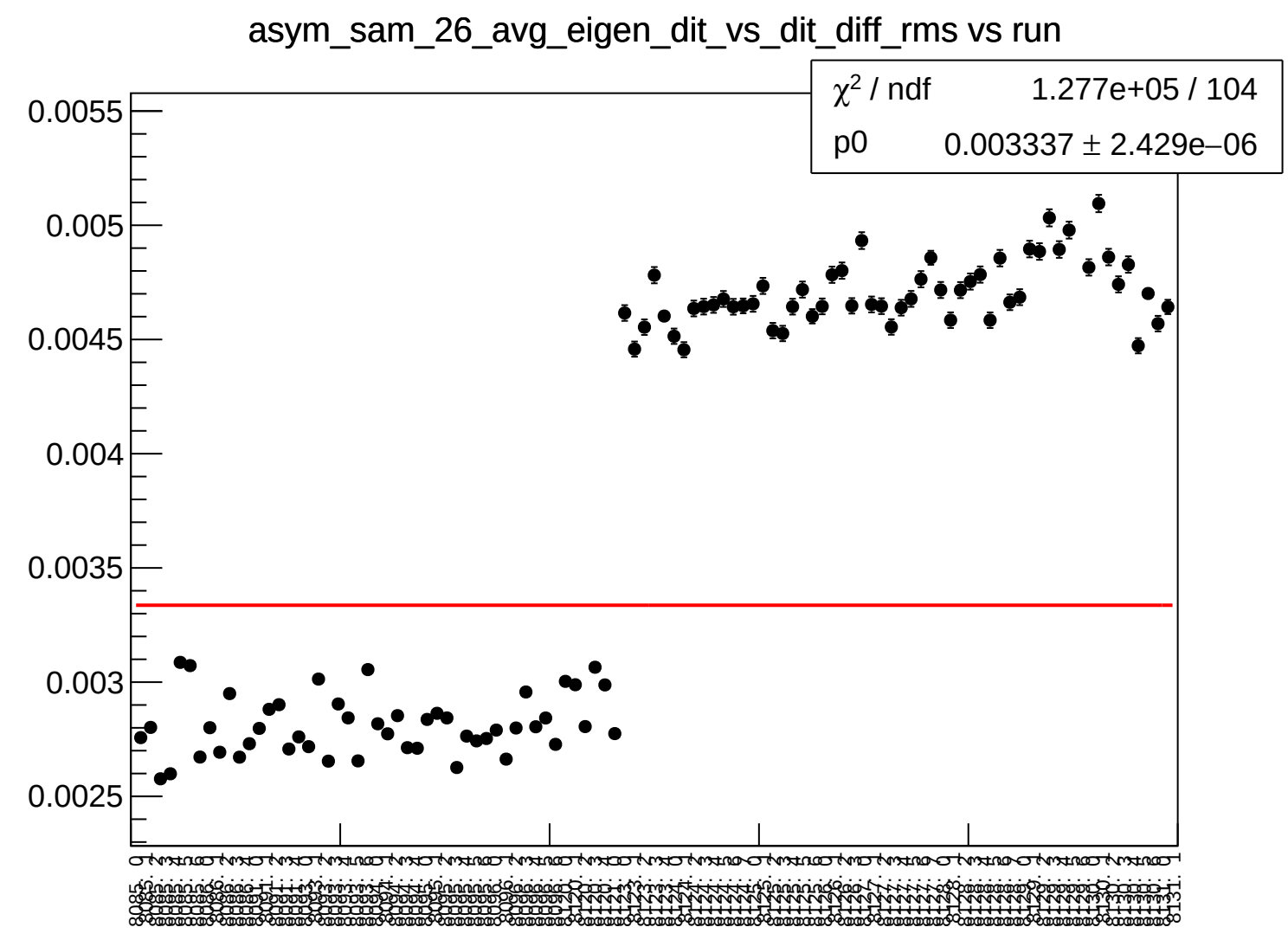

asym_sam_26_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.72 / 105
p0 −0.01456 ± 0.05936
pull
Entries 106
Mean 77.69
Std Dev 0

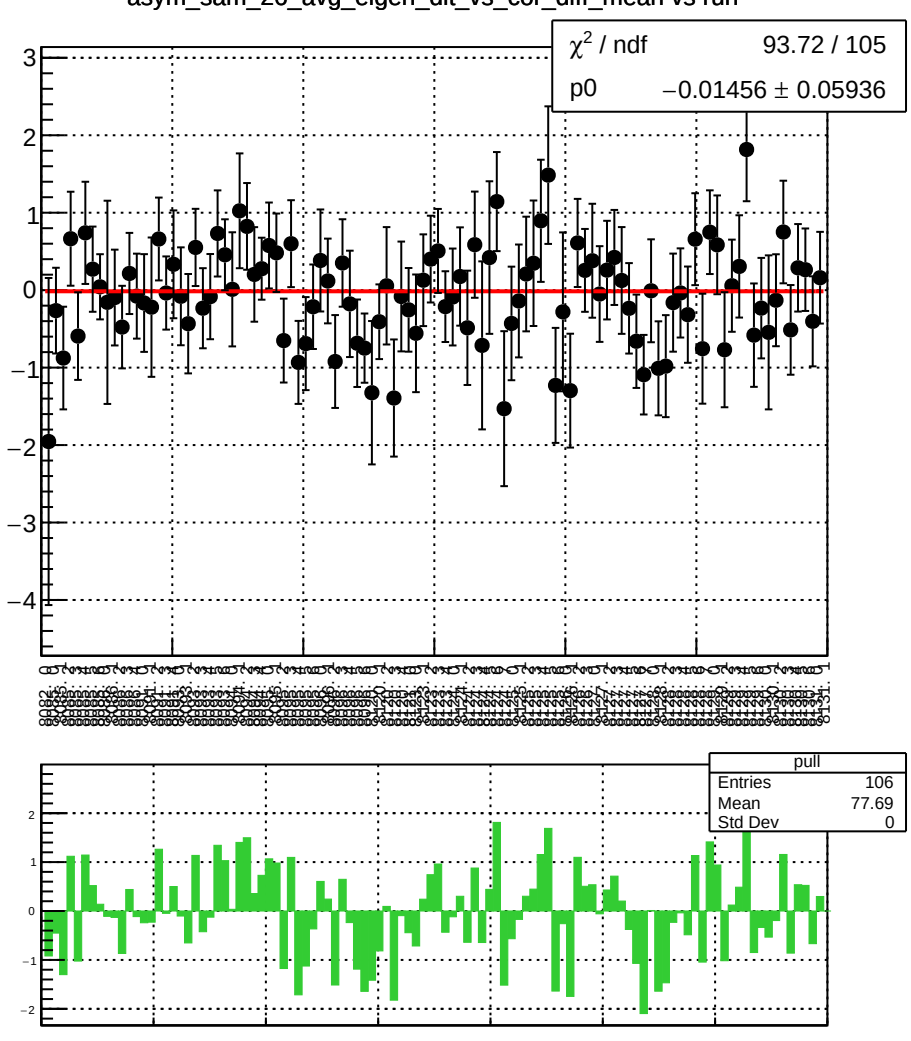

pull1D
Entries 106
Mean −0.02355
Std Dev 0.94

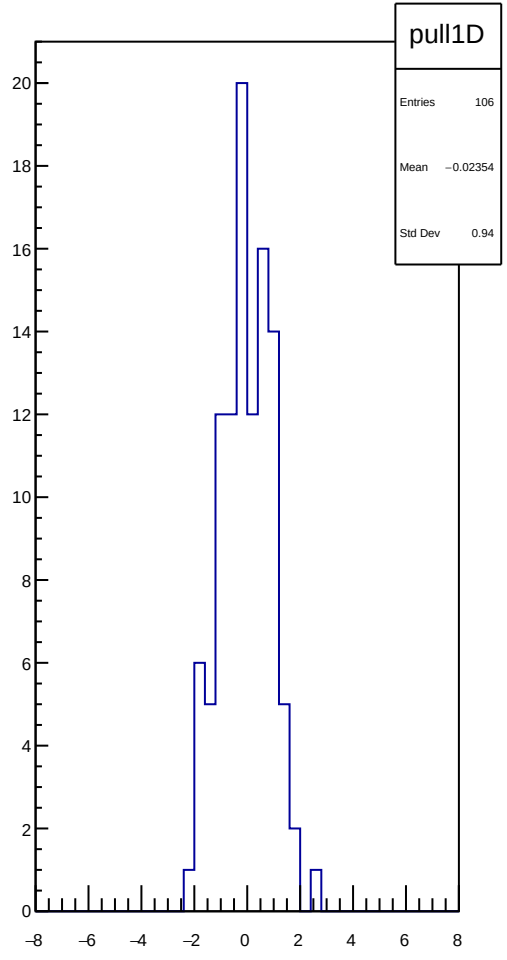

asym_sam_26_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.957e+04 / 105
p0 58.82 ± 0.04198
140
120
100
80
60
40

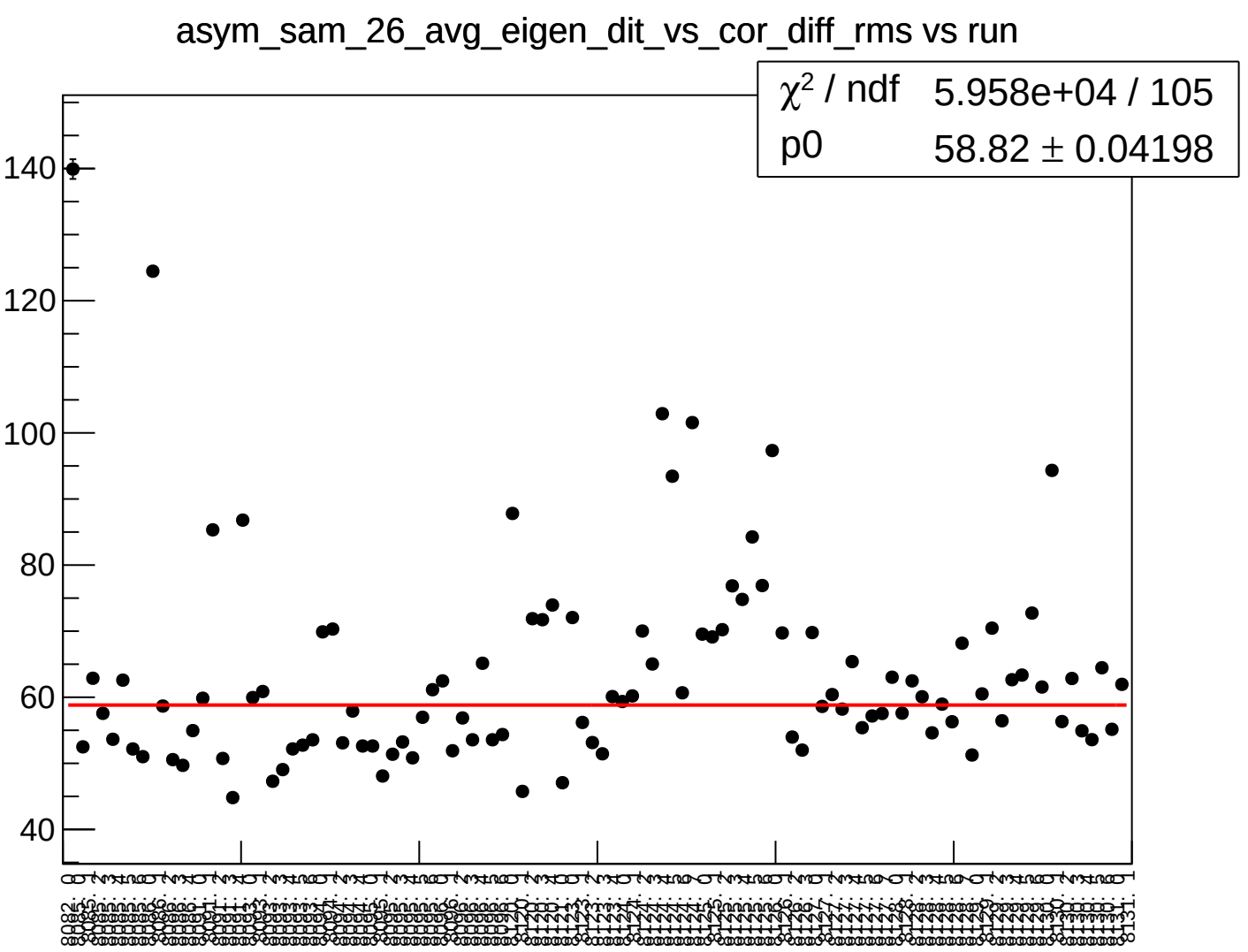

asym_sam_26_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 65.86 / 104
p0 −1.736e−06 ± 3.436e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 105
Mean −94.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

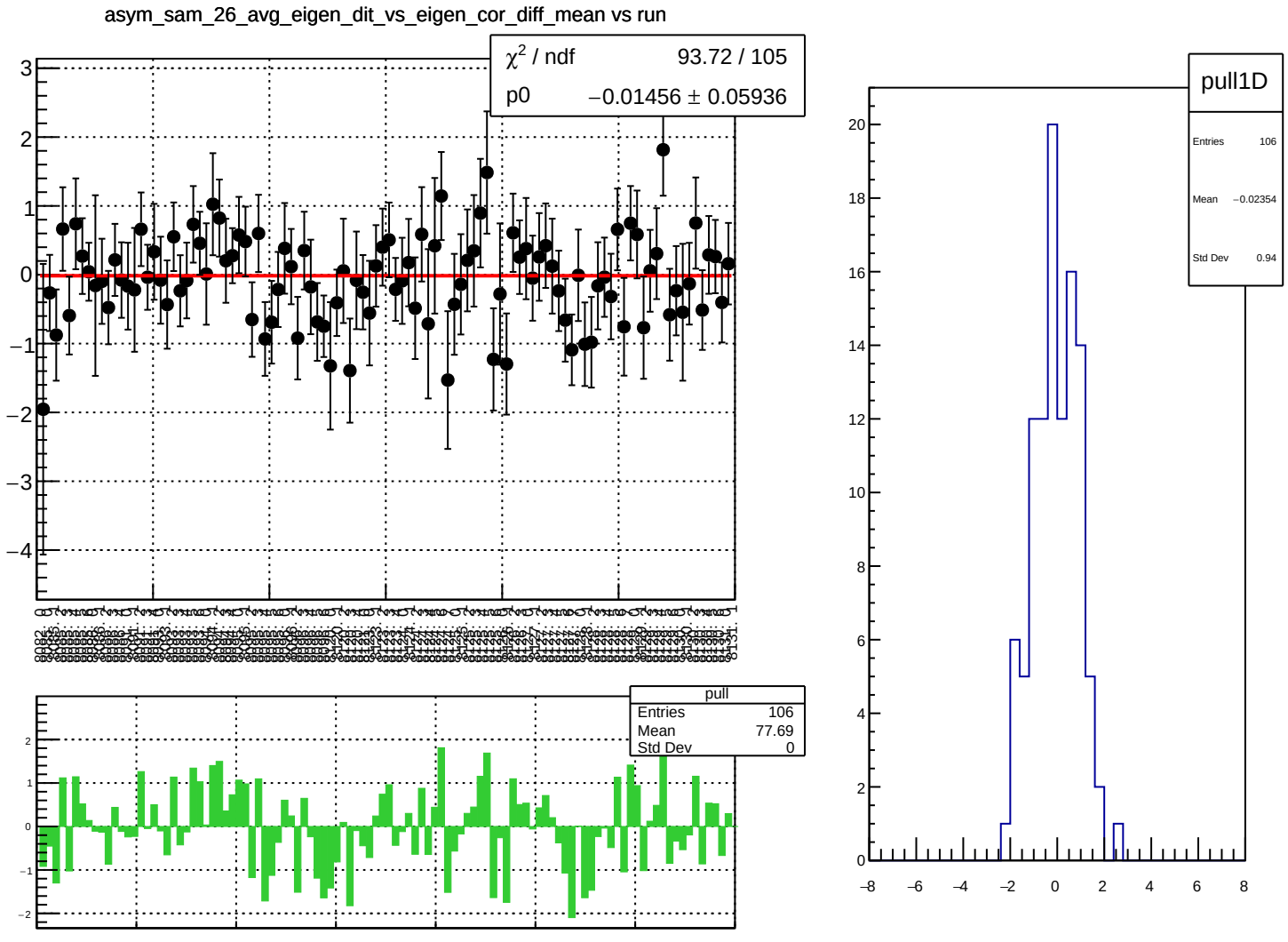

pull1D
Entries 105
Mean 0.002468
Std Dev 0.792
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

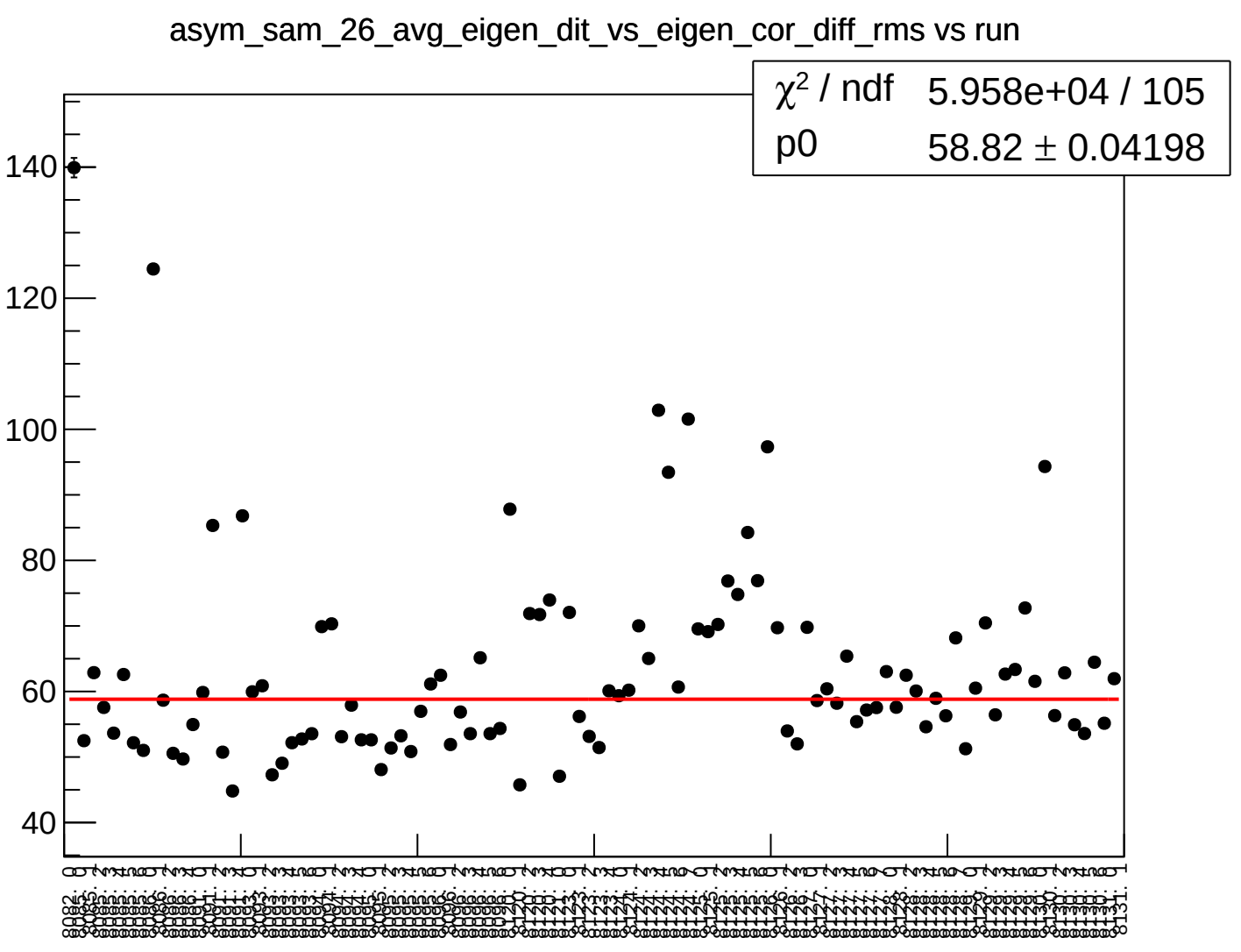

asym_sam_26_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.277e+05 / 104
p0 0.003337 ± 2.429e−06
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025

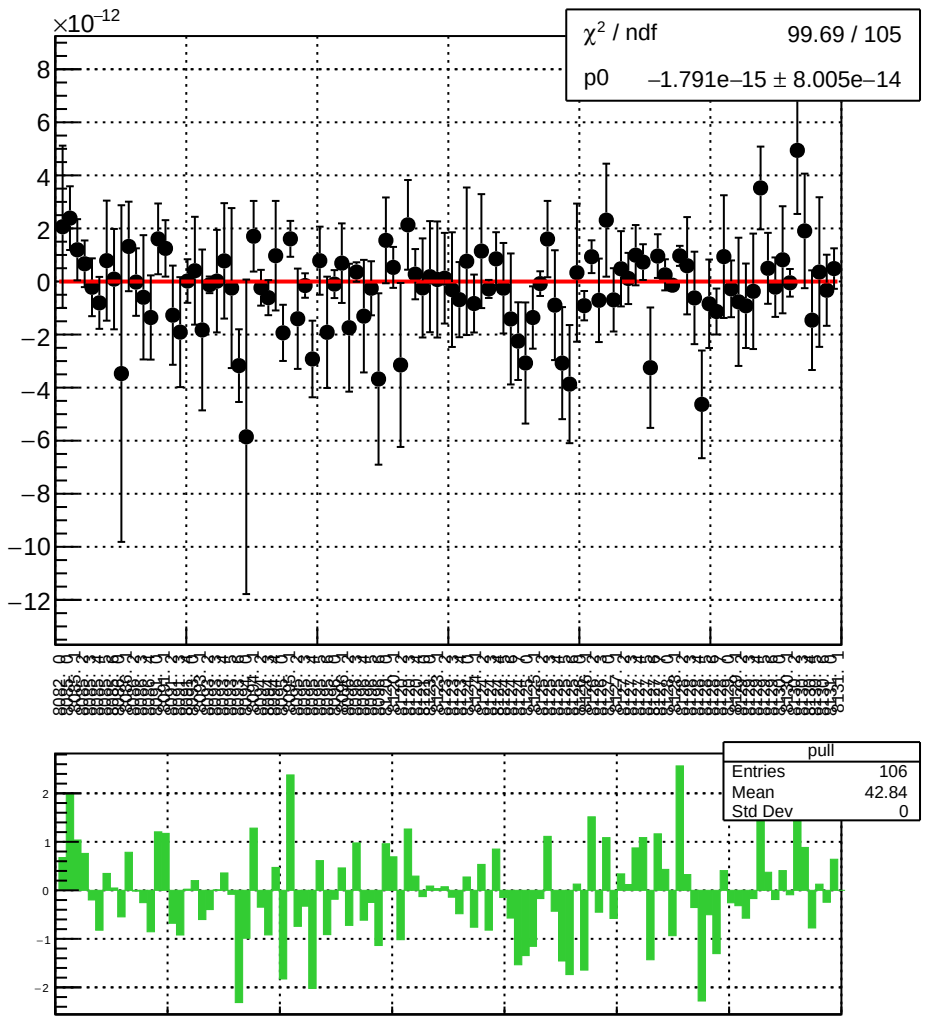

asym_sam_26_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.72 / 105
p0 −0.01456 ± 0.05936
pull
Entries 106
Mean 77.69
Std Dev 0

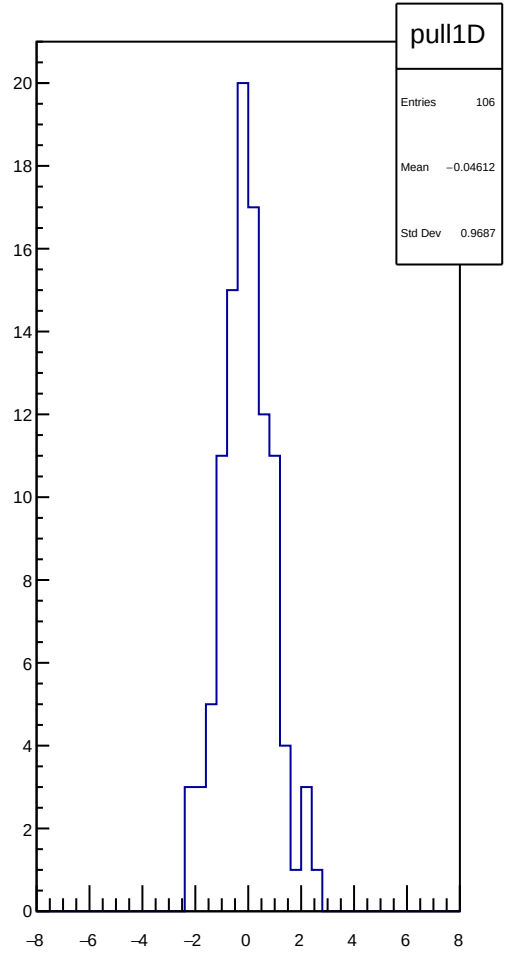

pull1D
Entries 106
Mean −0.02354
Std Dev 0.94

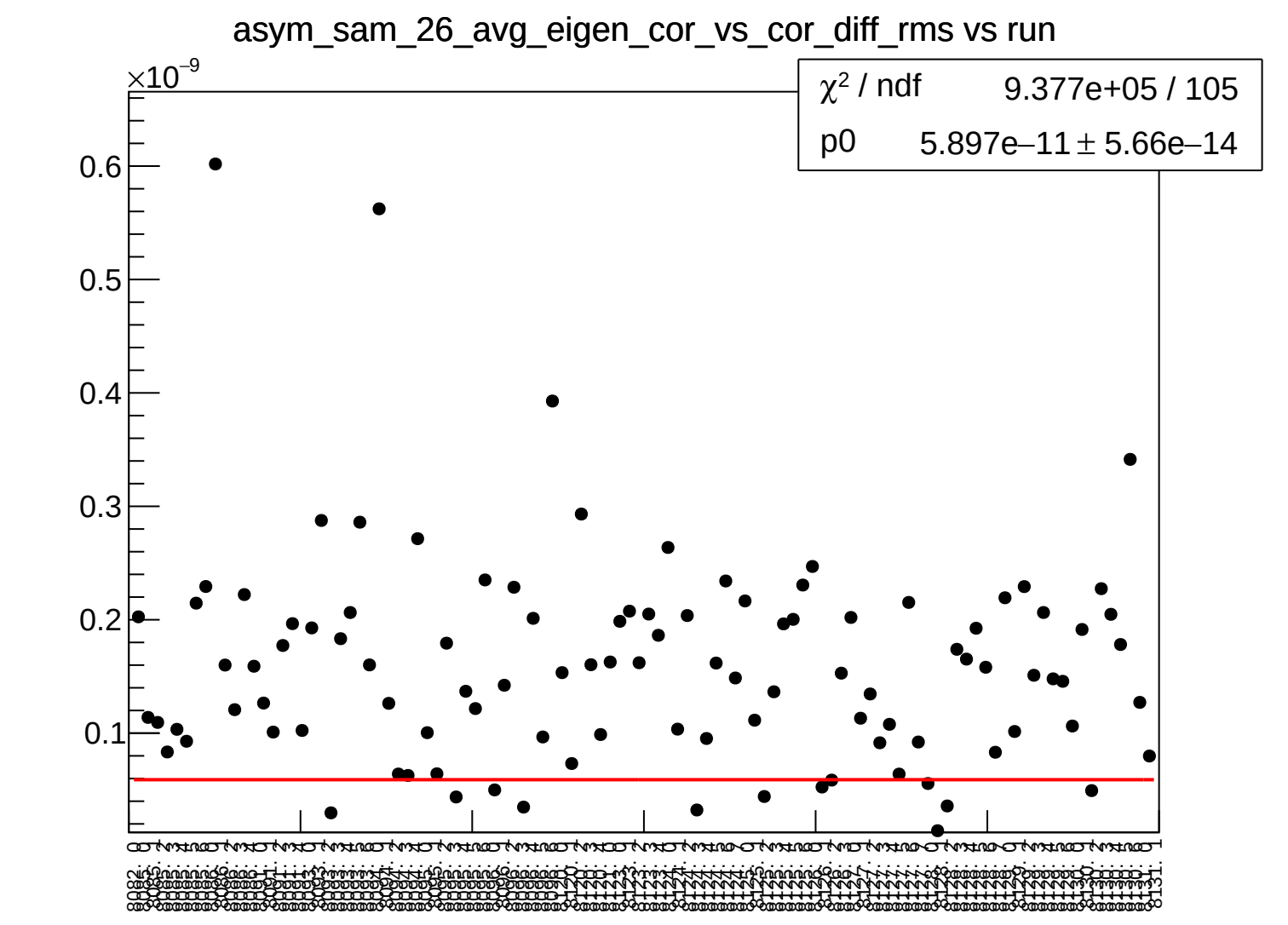

asym_sam_26_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.958e+04 / 105
p0 58.82 ± 0.04198
140
120
100
80
60
40

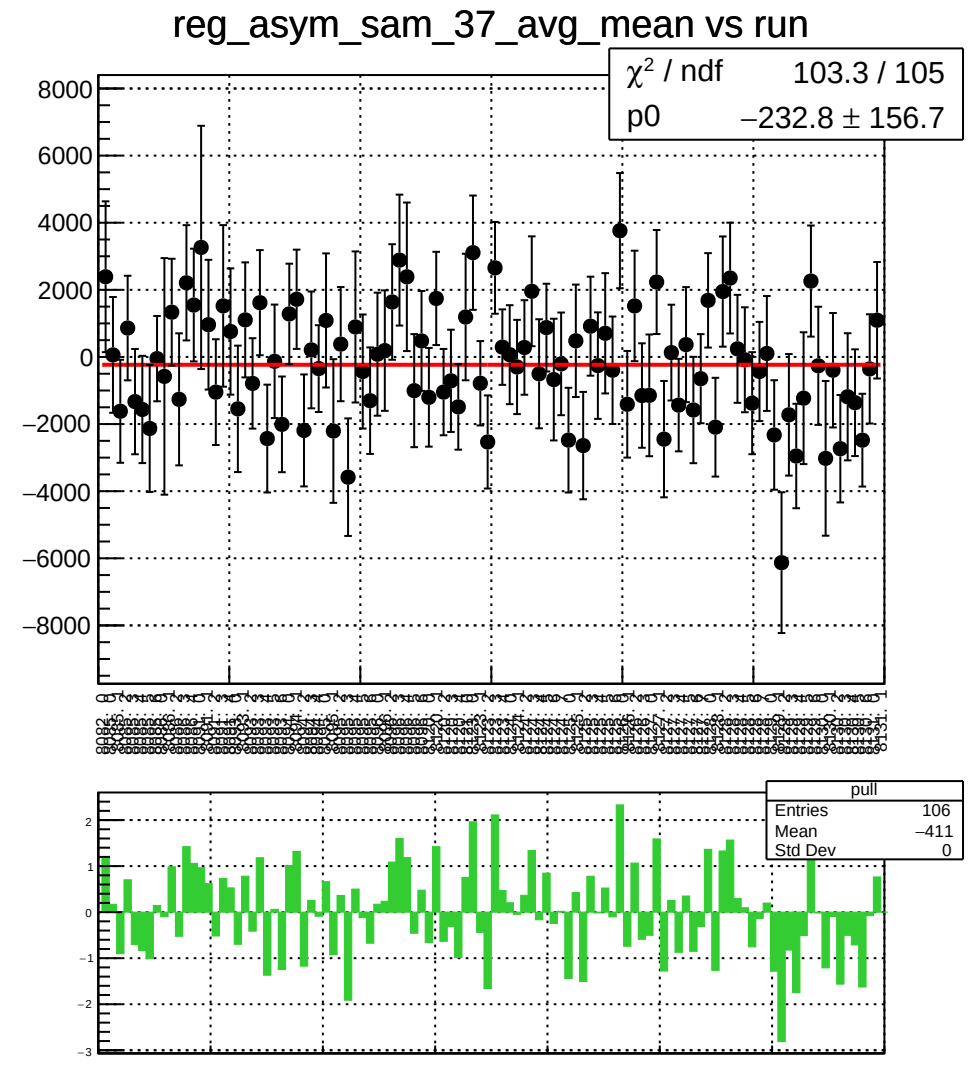

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.72 / 105
p0 −0.01456 ± 0.05936
pull
Entries 106
Mean 77.69
Std Dev 0
pull1D
Entries 106
Mean −0.02354
Std Dev 0.94

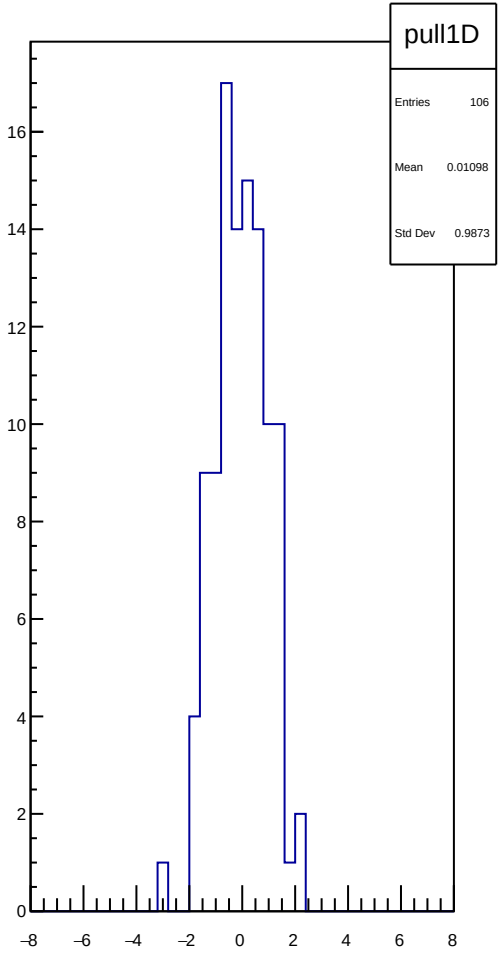

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.958e+04 / 105
p0 58.82 ± 0.04198
140
120
100
80
60
40

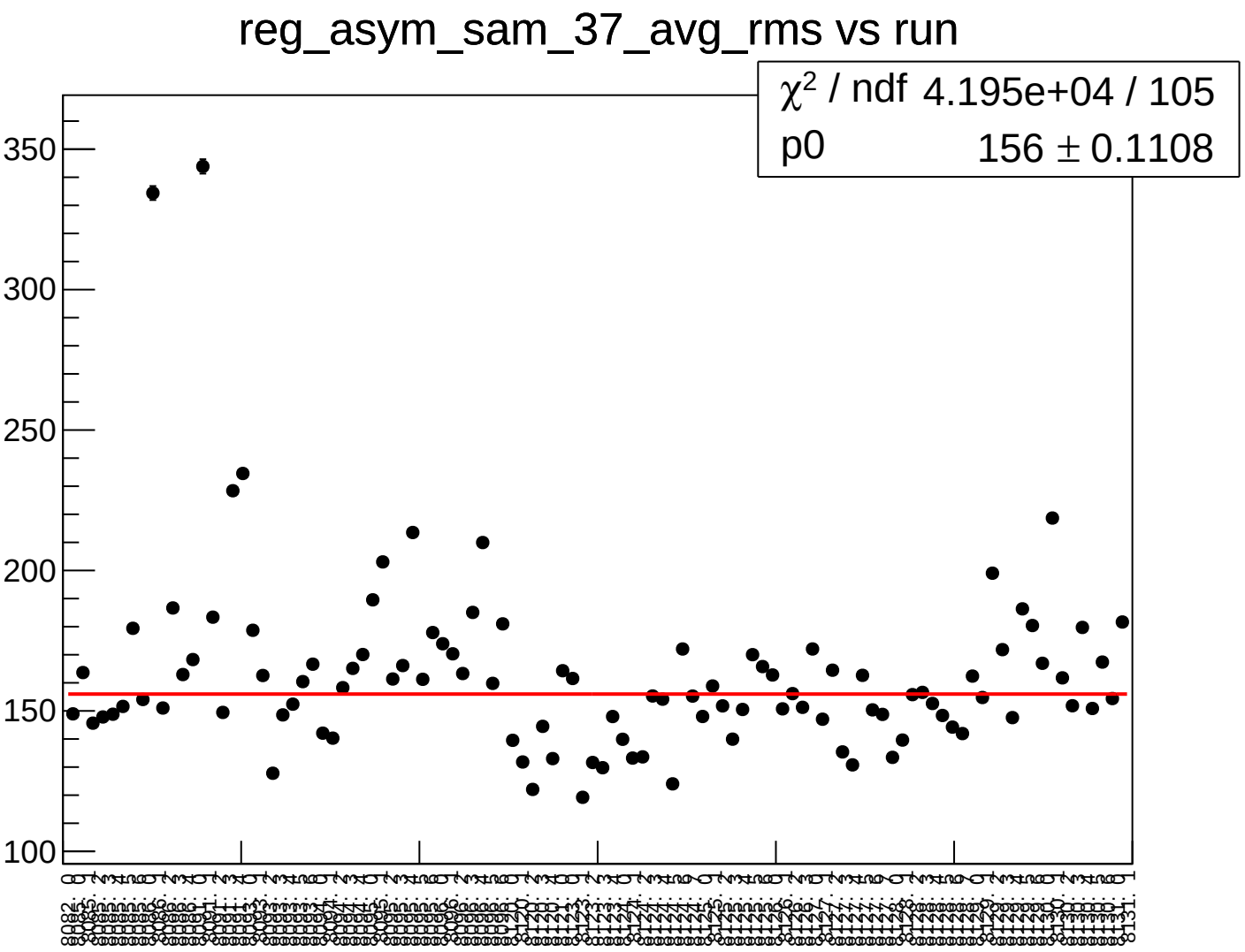

asym_sam_26_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.69 / 105
p0 −1.791e−15 ± 8.005e−14
pull
Entries 106
Mean 42.84
Std Dev 0

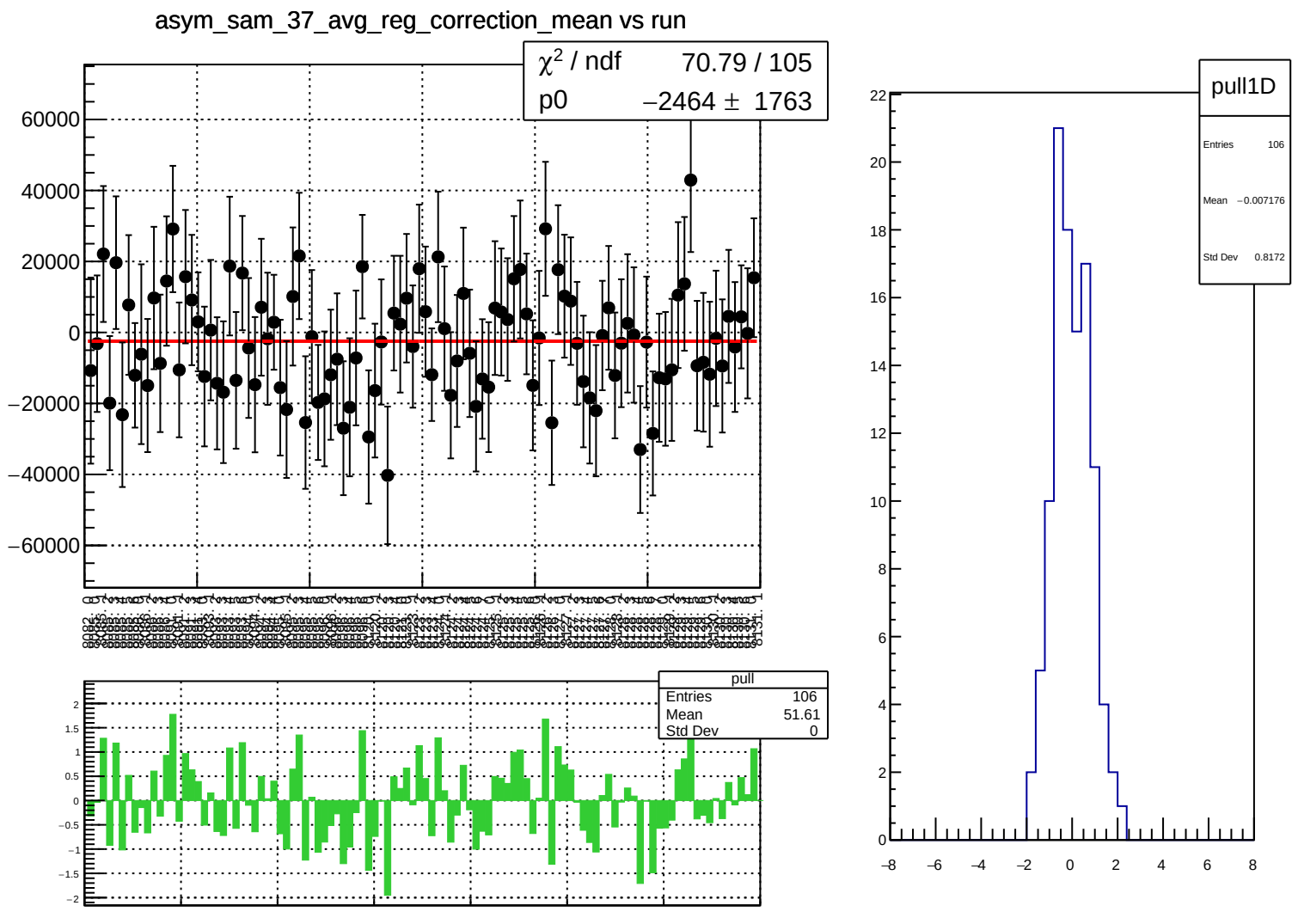

pull1D
Entries 106
Mean −0.04612
Std Dev 0.9687

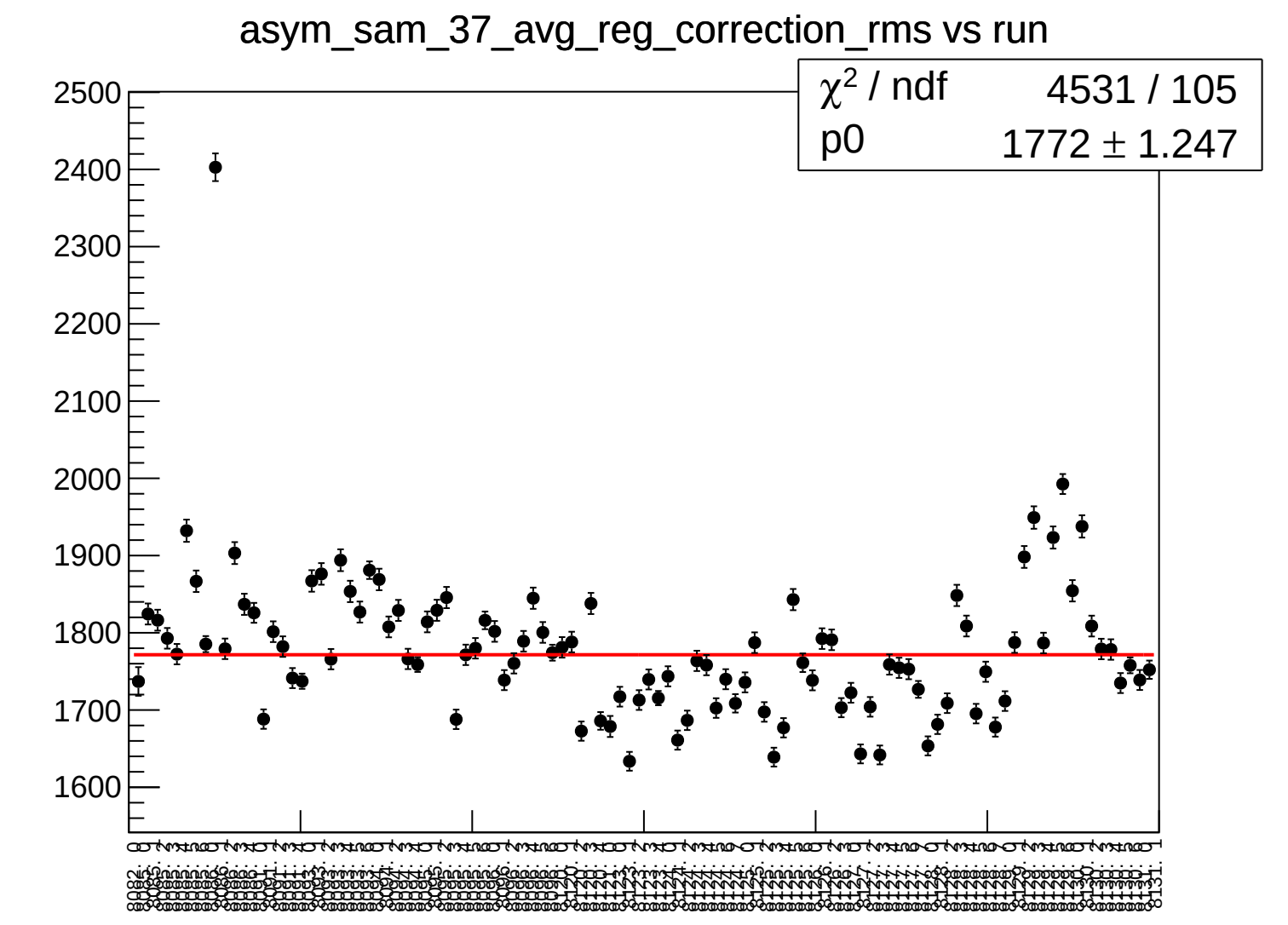

asym_sam_26_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.377e+05 / 105
p0 5.897e−11 ± 5.66e−14
0.6
0.5
0.4
0.3
0.2
0.1

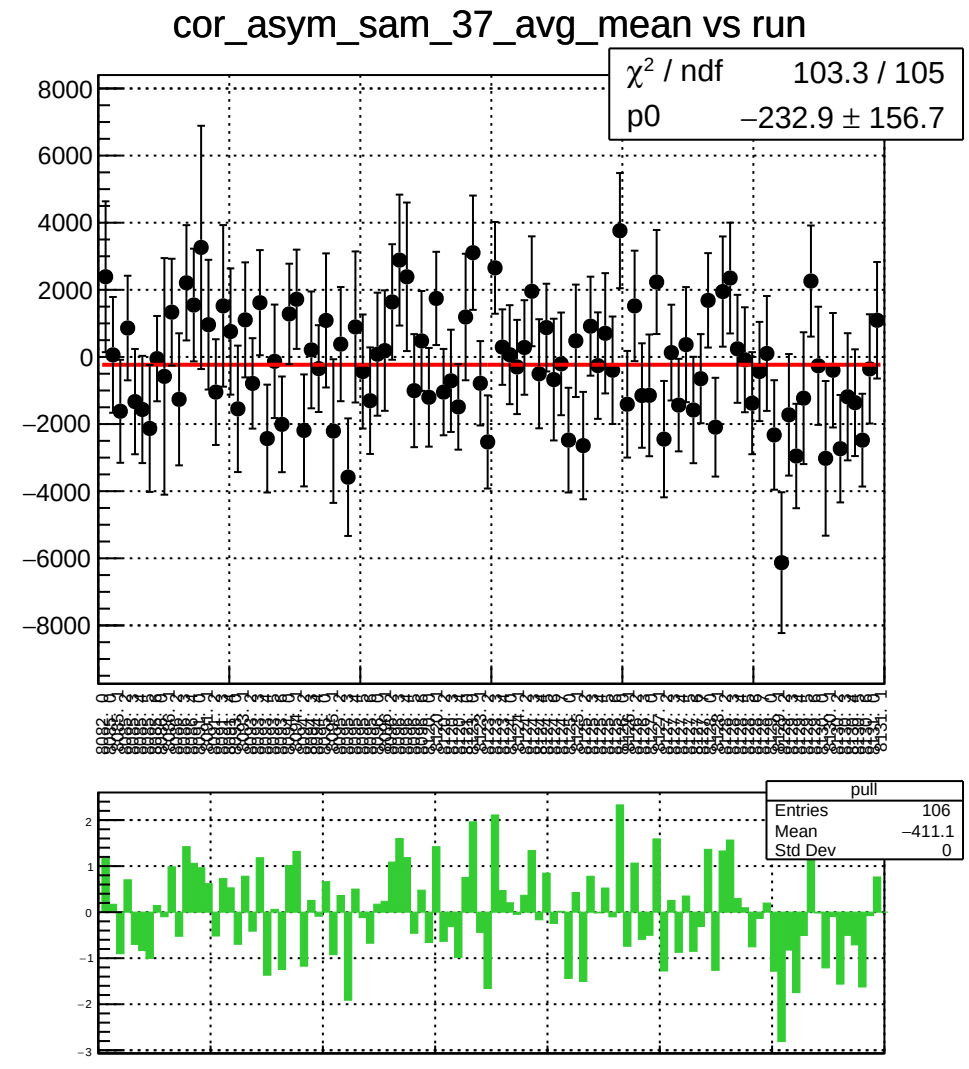

reg_asym_sam_37_avg_mean vs run
χ² / ndf 103.3 / 105
p0 −232.8 ± 156.7
pull
Entries 106
Mean −411
Std Dev 0

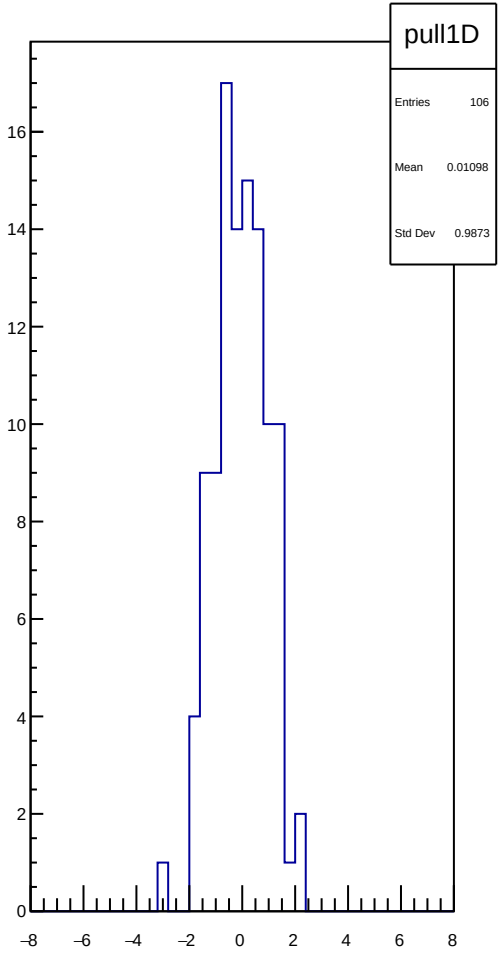

pull1D
Entries 106
Mean 0.01098
Std Dev 0.9873

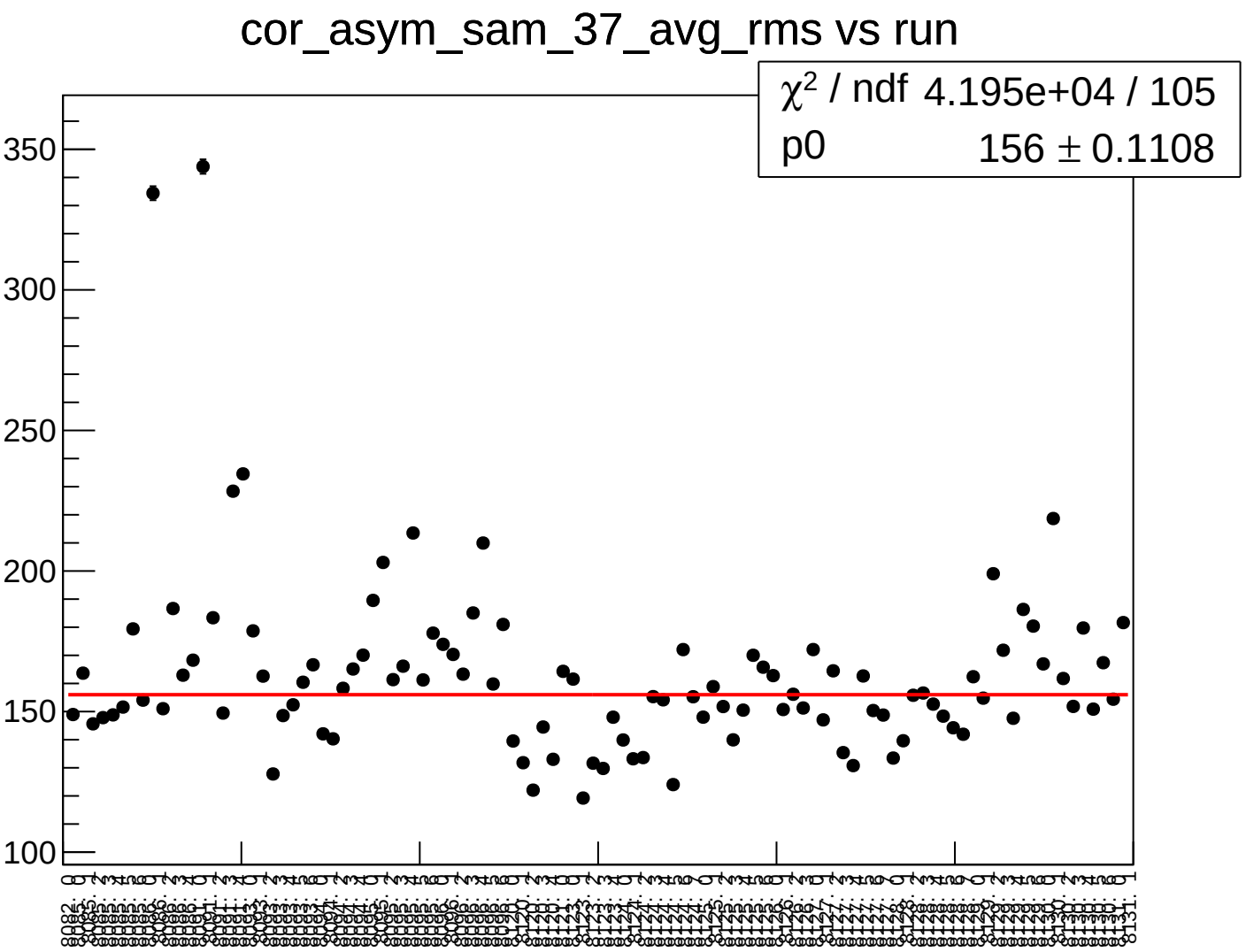

reg_asym_sam_37_avg_rms vs run
χ² / ndf 4.195e+04 / 105
p0 156 ± 0.1108
350
300
250
200
150
100

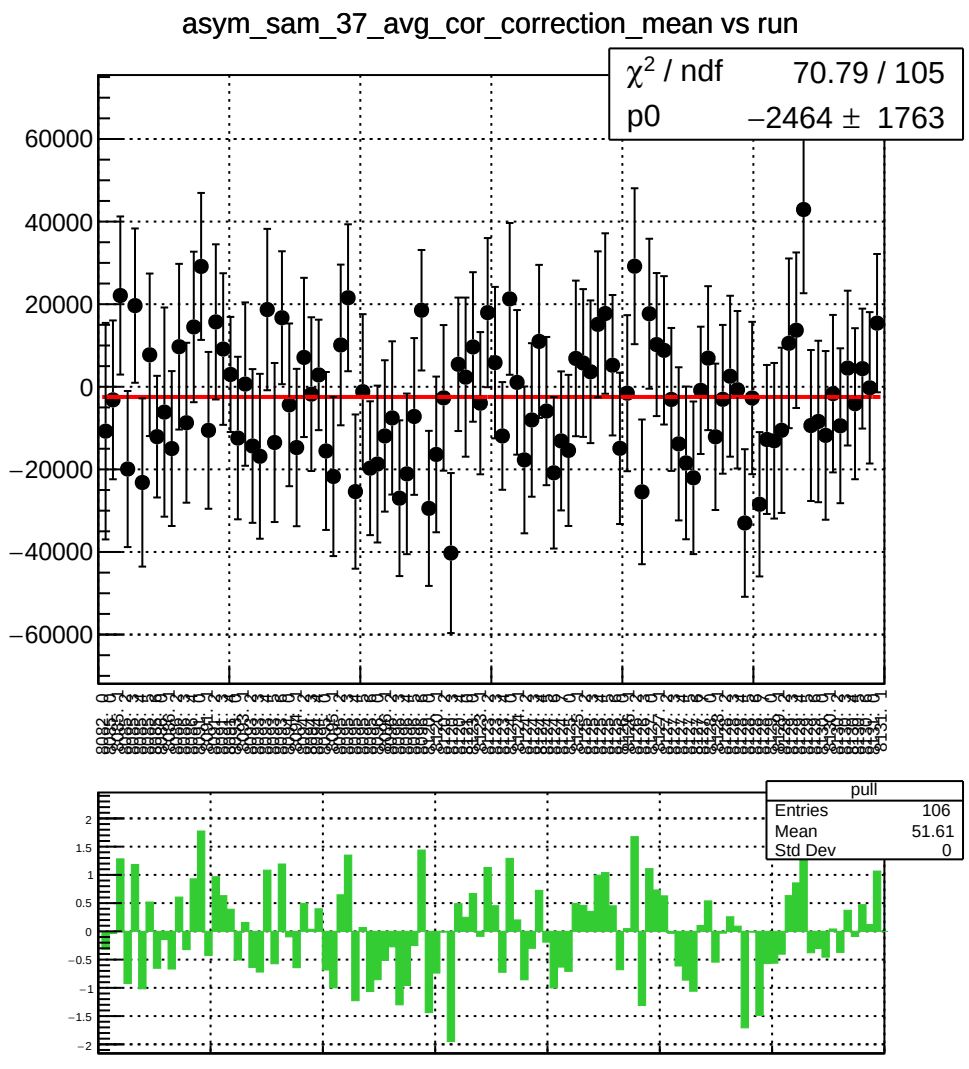

asym_sam_37_avg_reg_correction_mean vs run
χ² / ndf 70.79 / 105
p0 −2464 ± 1763
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean 51.61
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 106
Mean −0.007176
Std Dev 0.8172
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

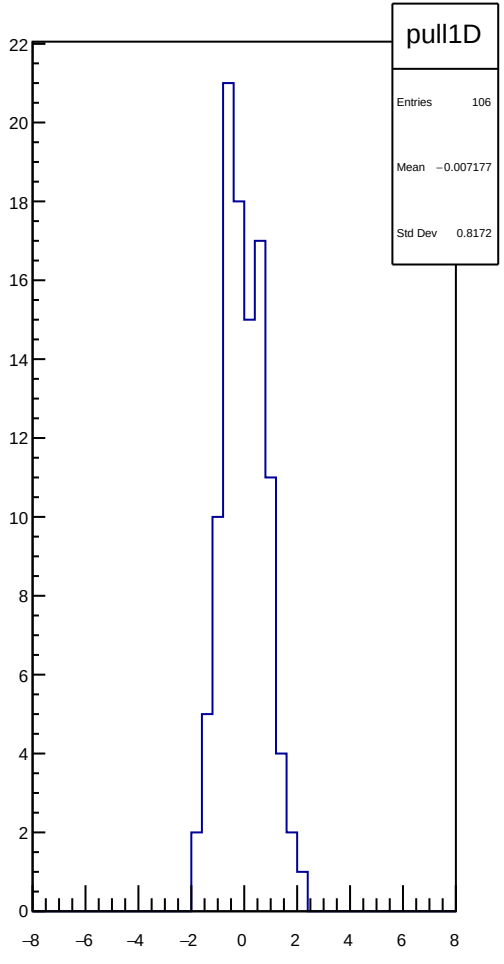

asym_sam_37_avg_reg_correction_rms vs run
χ² / ndf 4531 / 105
p0 1772 ± 1.247
2500
2400
2300
2200
2100
2000
1900
1800
1700
1600

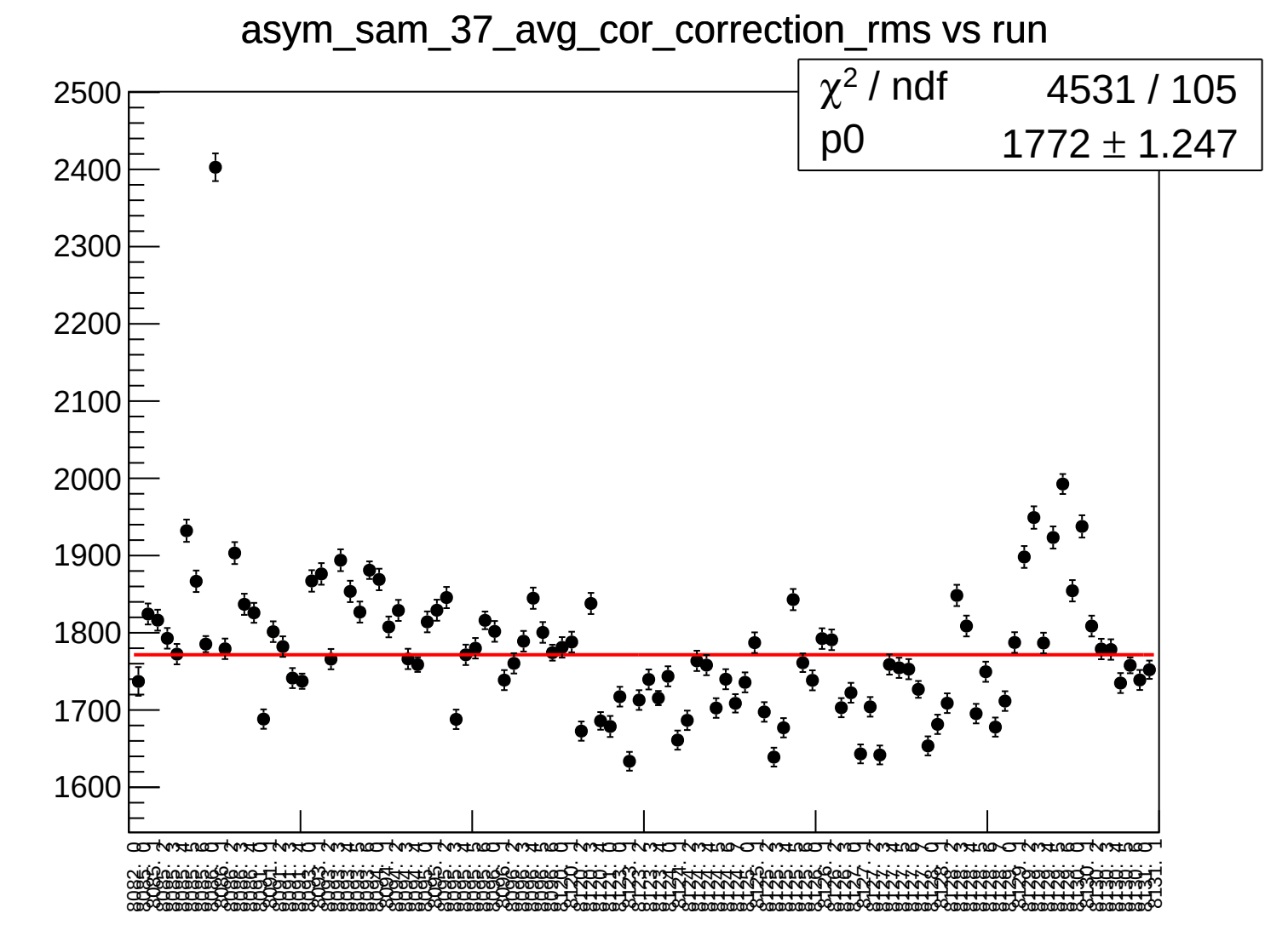

cor_asym_sam_37_avg_mean vs run
χ² / ndf 103.3 / 105
p0 −232.9 ± 156.7
pull
Entries 106
Mean −411.1
Std Dev 0

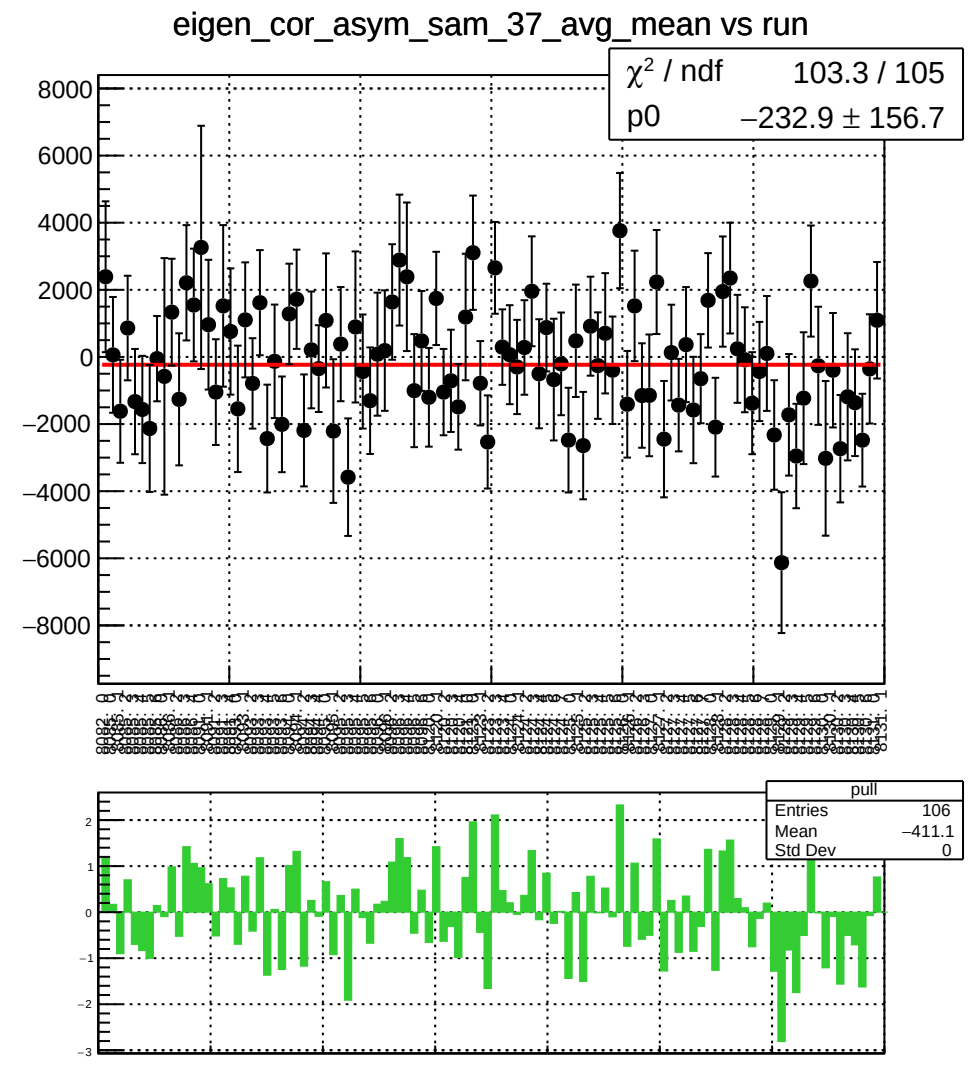

pull1D
Entries 106
Mean 0.01098
Std Dev 0.9873

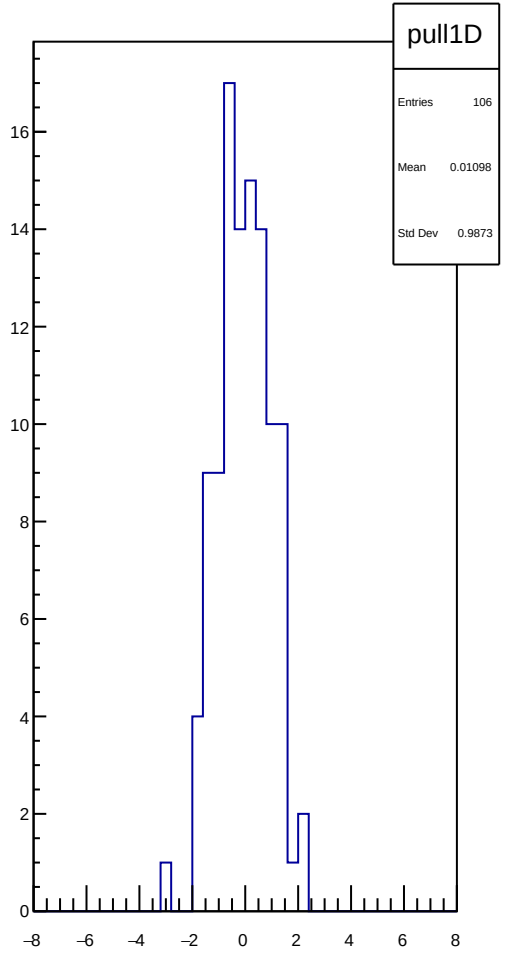

cor_asym_sam_37_avg_rms vs run
χ² / ndf 4.195e+04 / 105
p0 156 ± 0.1108
350
300
250
200
150
100

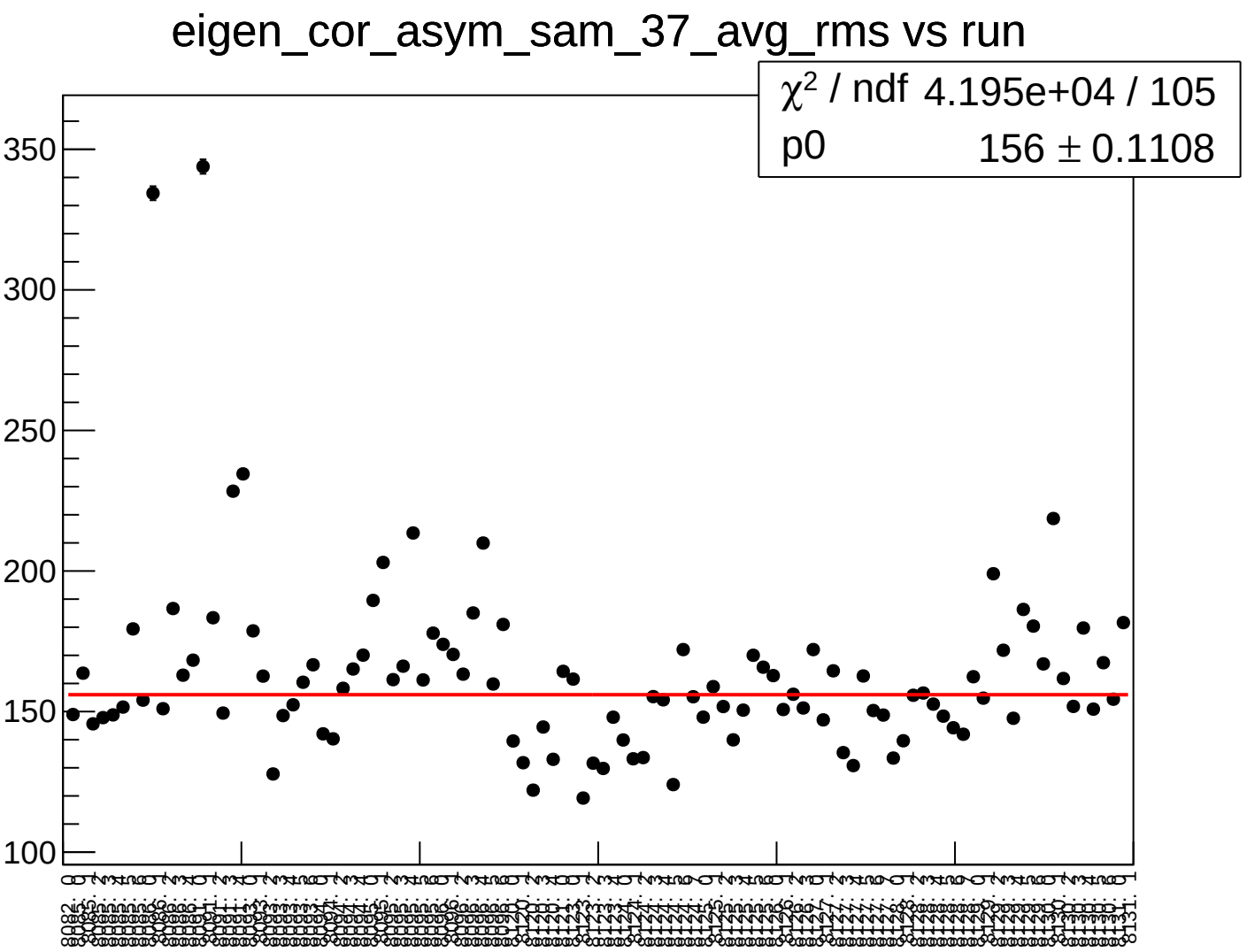

asym_sam_37_avg_cor_correction_mean vs run
χ² / ndf 70.79 / 105
p0 −2464 ± 1763
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean 51.61
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

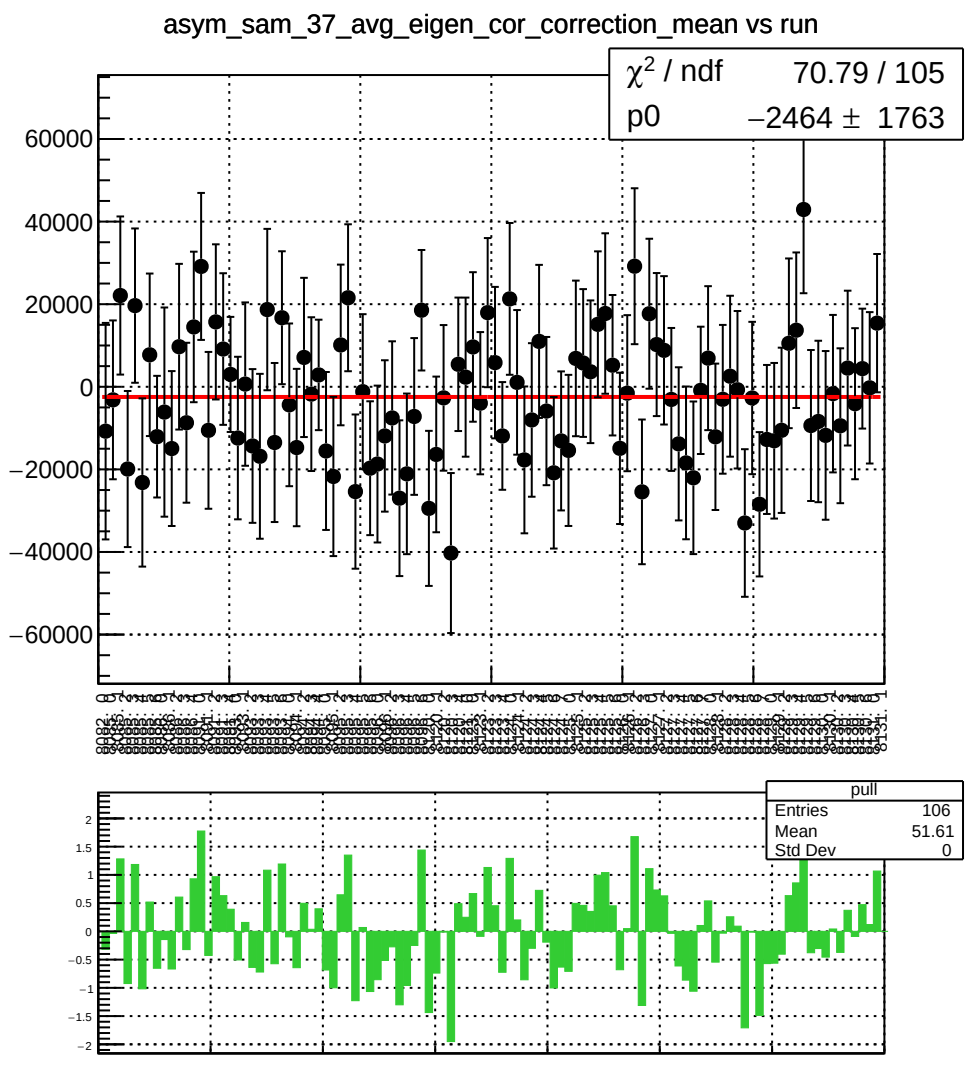

pull1D
Entries 106
Mean −0.007177
Std Dev 0.8172
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

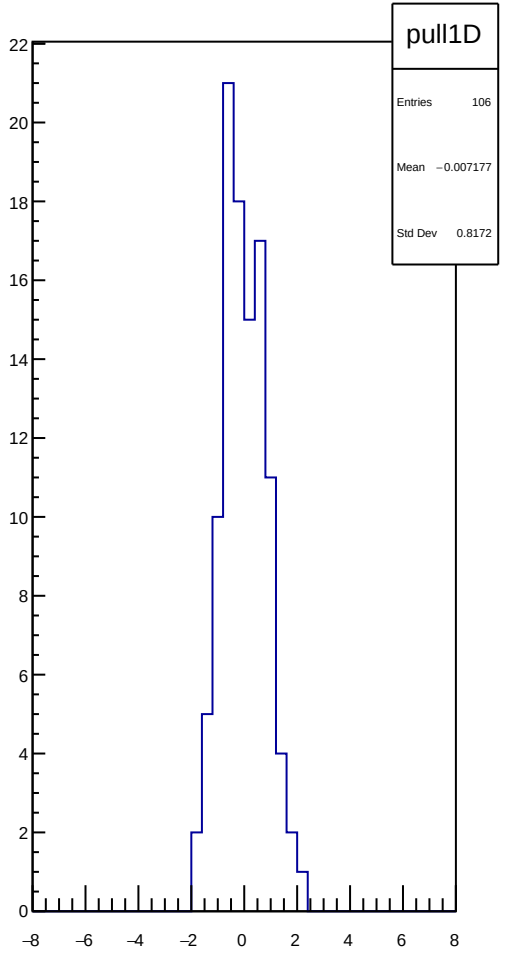

asym_sam_37_avg_cor_correction_rms vs run
$\chi^2$ / ndf 4531 / 105
p0 1772 ± 1.247
2500
2400
2300
2200
2100
2000
1900
1800
1700
1600

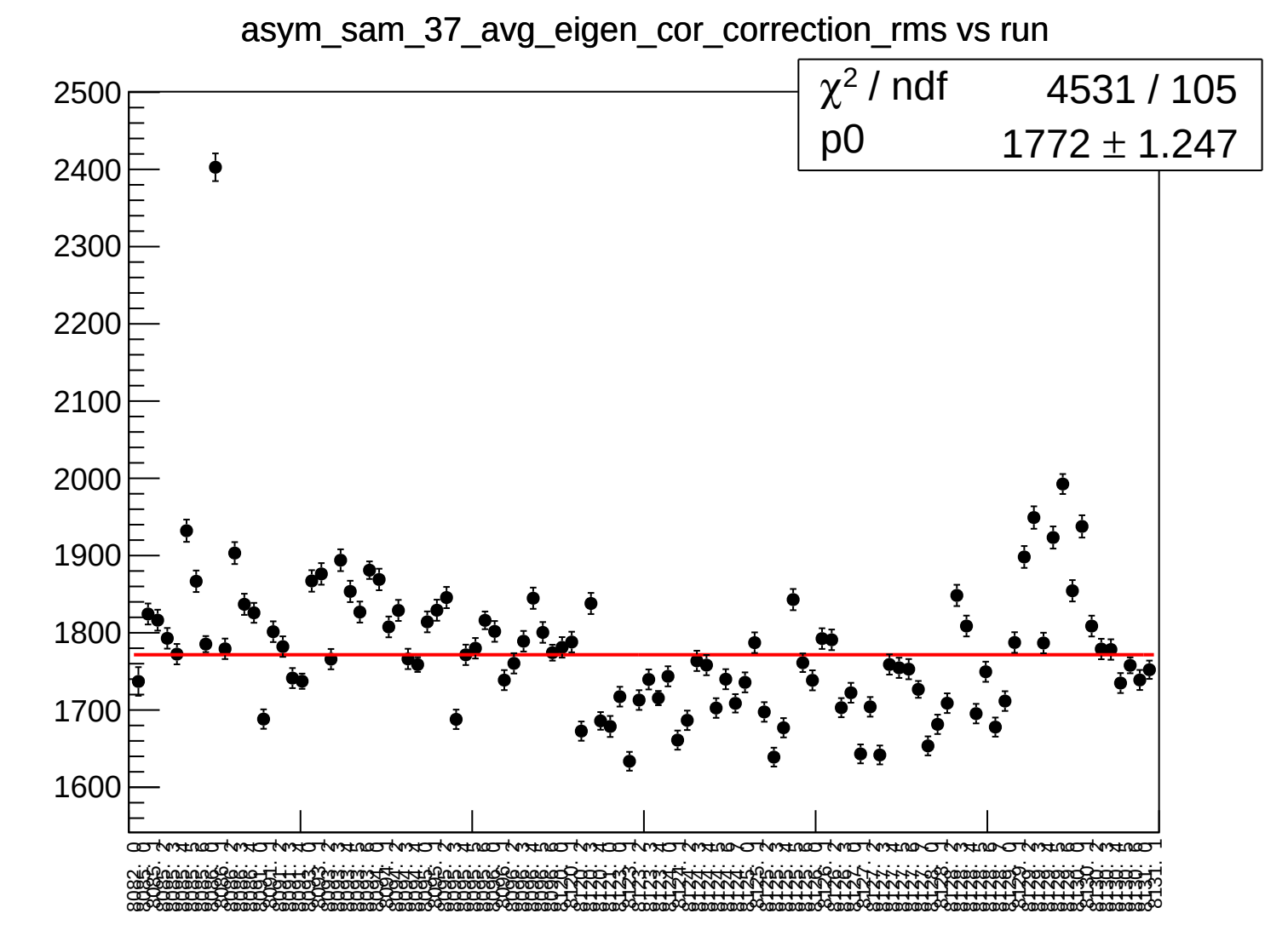

eigen_cor_asym_sam_37_avg_mean vs run
χ² / ndf 103.3 / 105
p0 −232.9 ± 156.7
pull
Entries 106
Mean −411.1
Std Dev 0

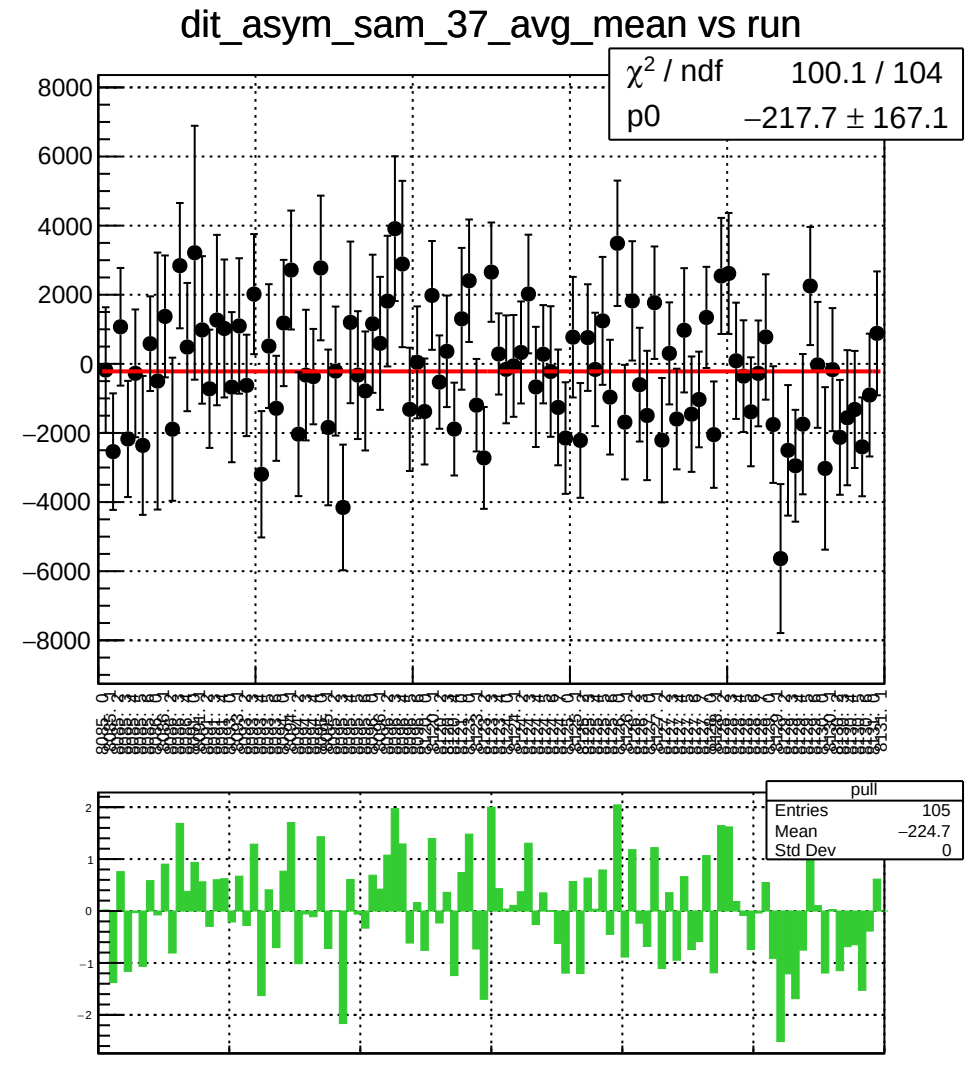

pull1D
Entries 106
Mean 0.01098
Std Dev 0.9873

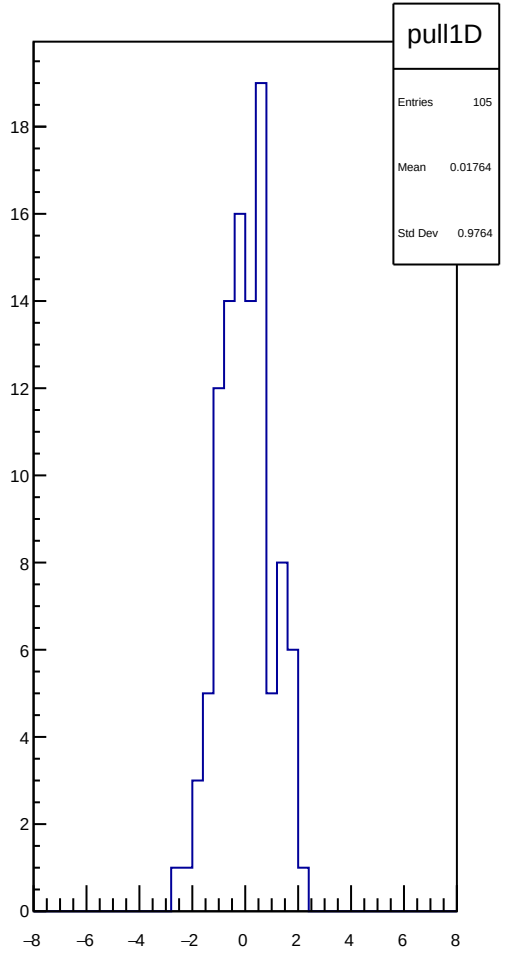

eigen_cor_asym_sam_37_avg_rms vs run
χ² / ndf 4.195e+04 / 105
p0 156 ± 0.1108
350
300
250
200
150
100

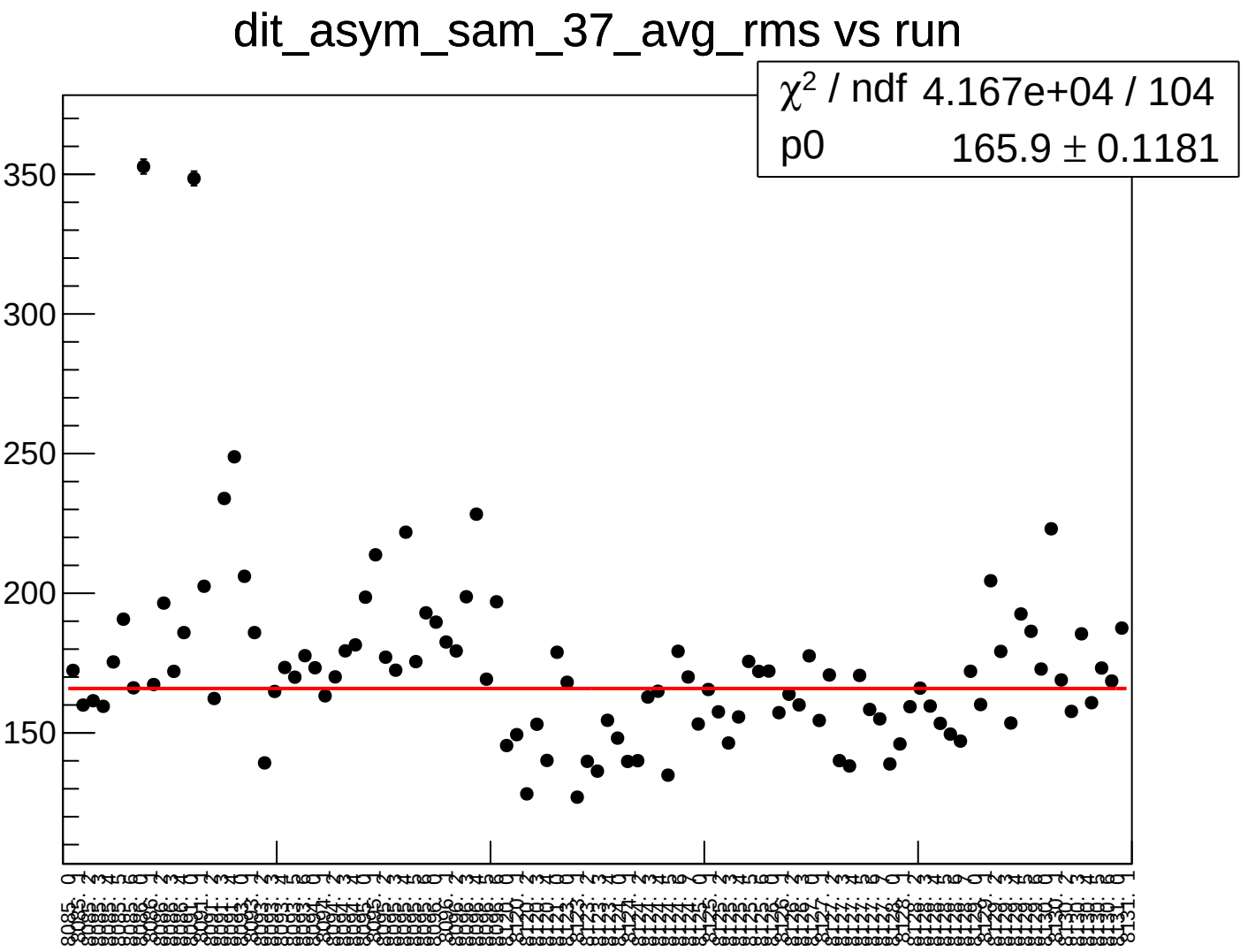

asym_sam_37_avg_eigen_cor_correction_mean vs run
χ² / ndf 70.79 / 105
p0 −2464 ± 1763
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean 51.61
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

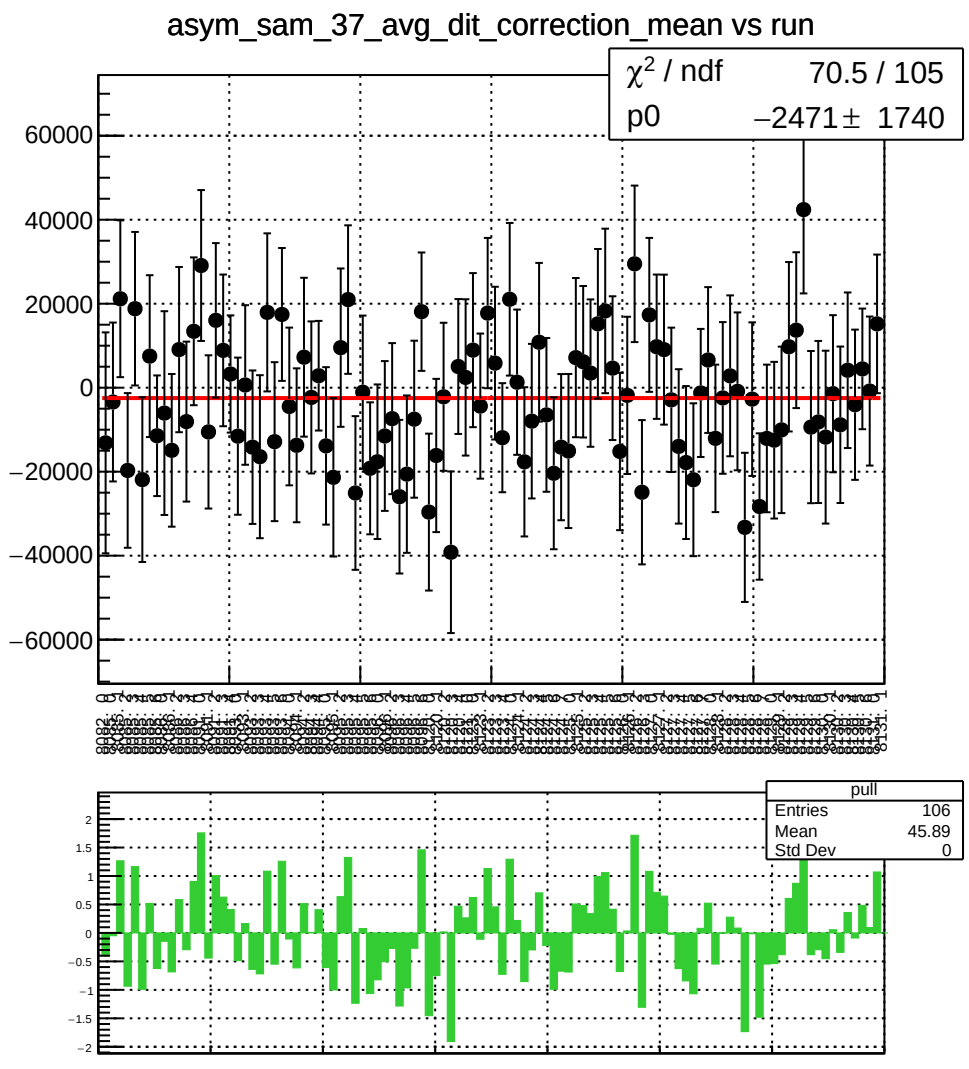

pull1D
Entries 106
Mean −0.007177
Std Dev 0.8172
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

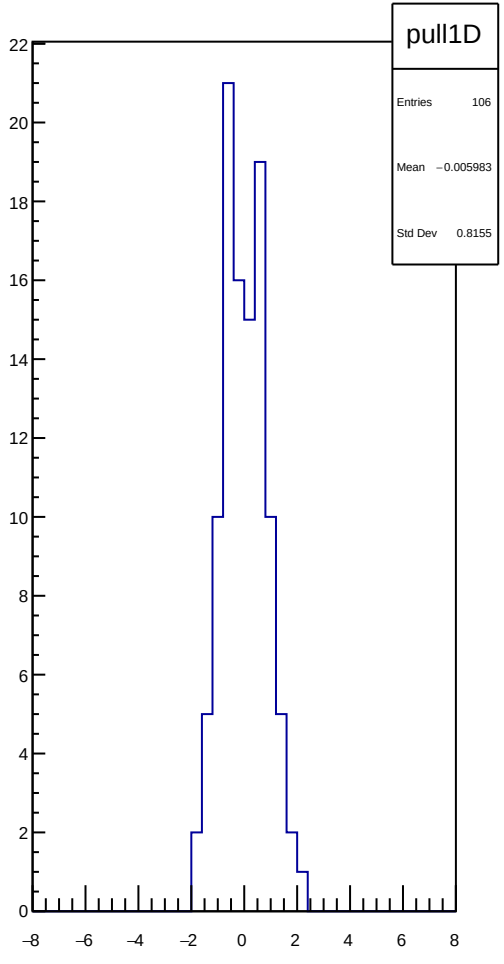

asym_sam_37_avg_eigen_cor_correction_rms vs run
χ² / ndf 4531 / 105
p0 1772 ± 1.247
2500
2400
2300
2200
2100
2000
1900
1800
1700
1600

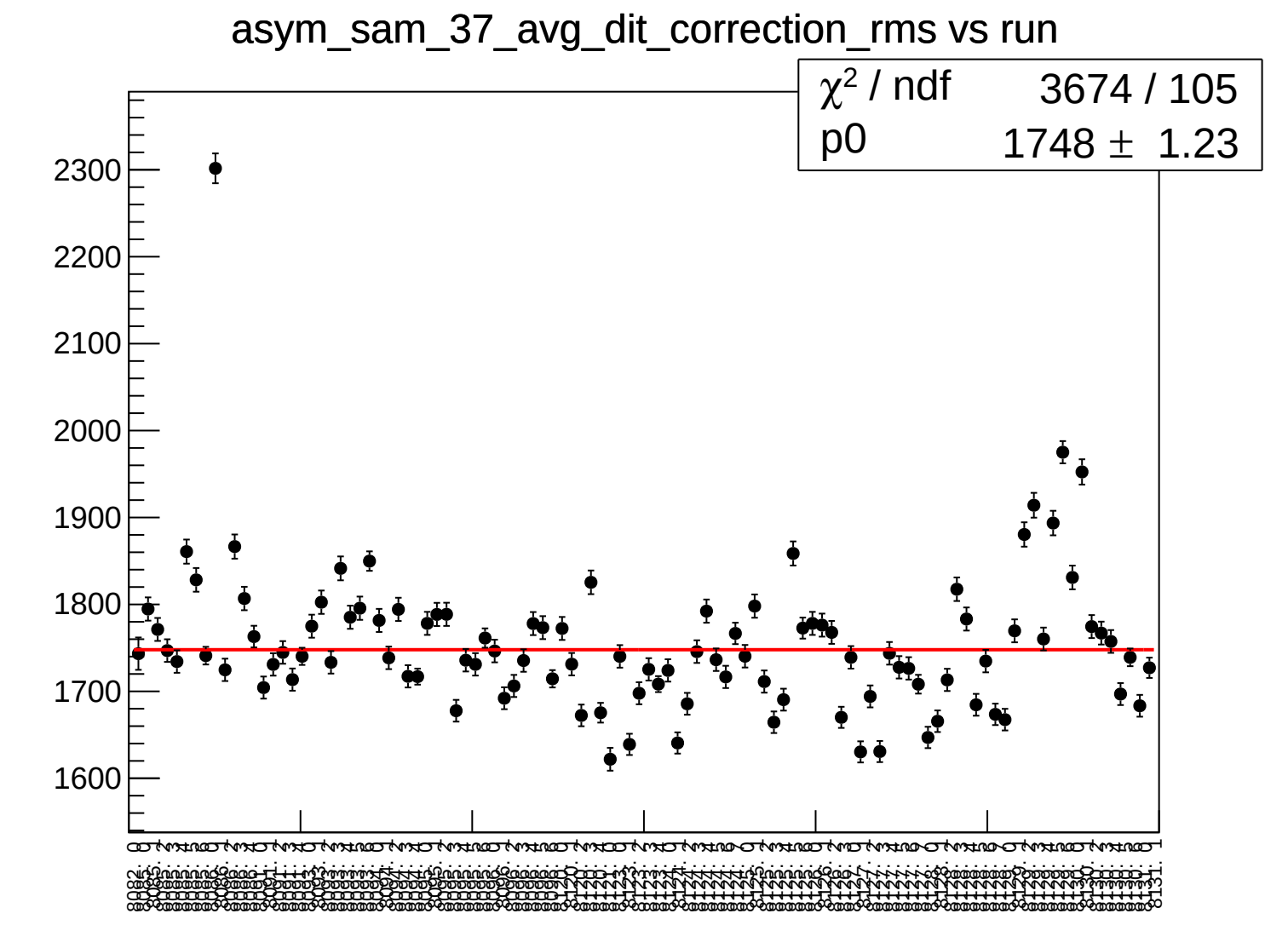

dit_asym_sam_37_avg_mean vs run
χ² / ndf 100.1 / 104
p0 −217.7 ± 167.1
pull
Entries 105
Mean −224.7
Std Dev 0

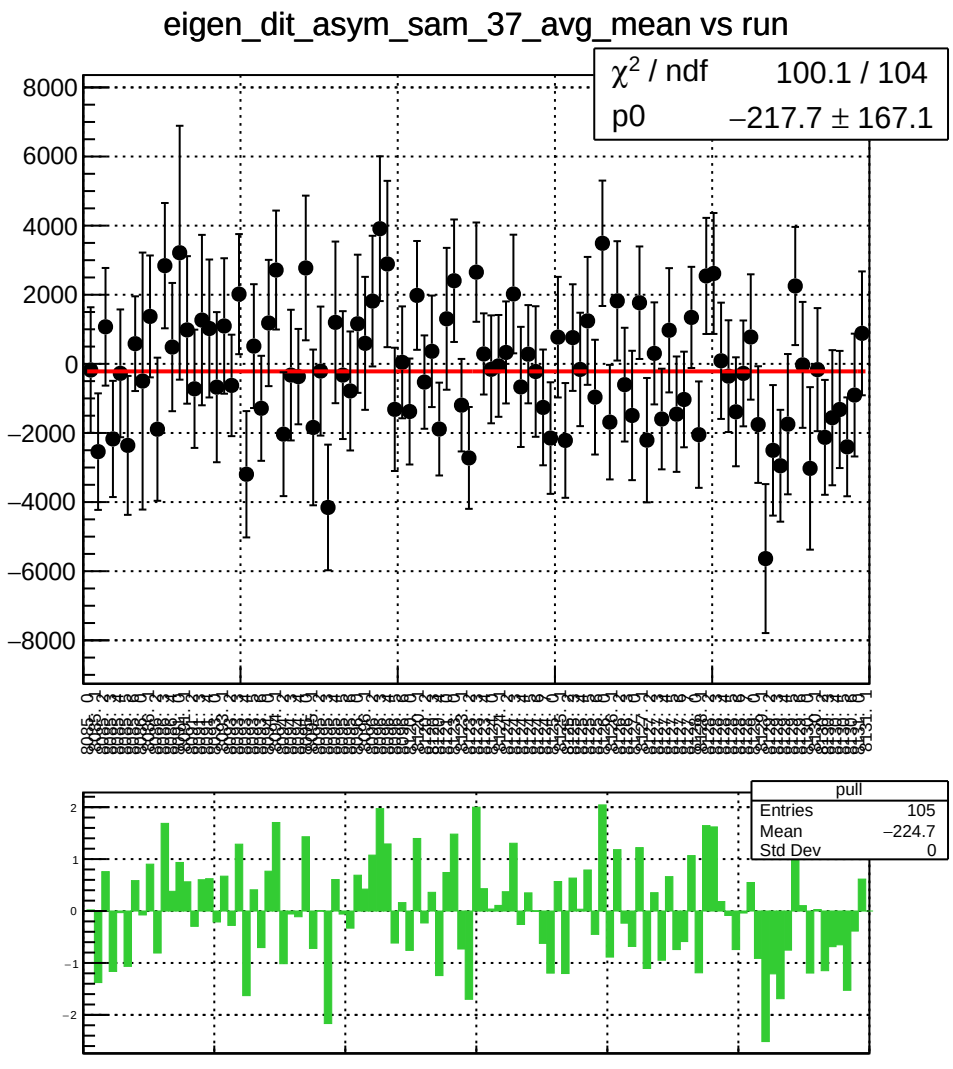

pull1D
Entries 105
Mean 0.01764
Std Dev 0.9764

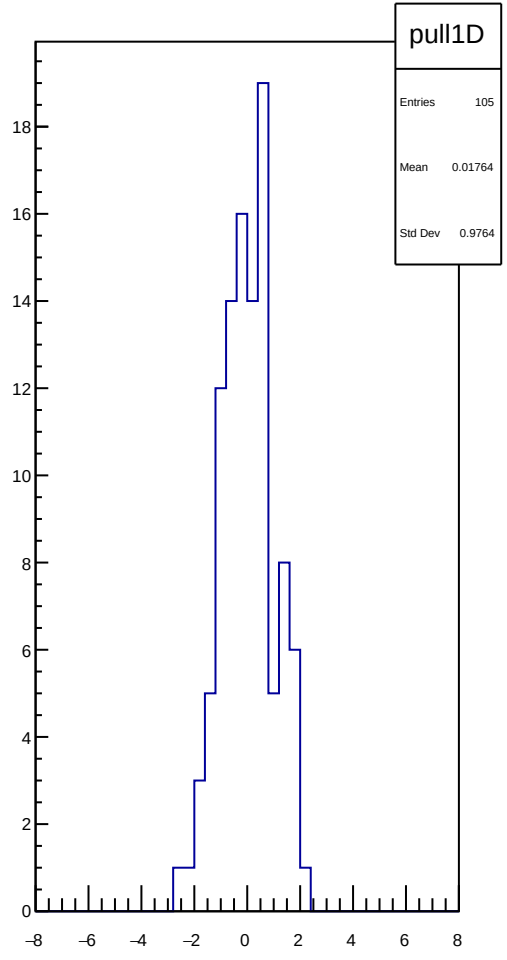

dit_asym_sam_37_avg_rms vs run
$\chi^2$ / ndf 4.167e+04 / 104
p0 165.9 ± 0.1181
350
300
250
200
150

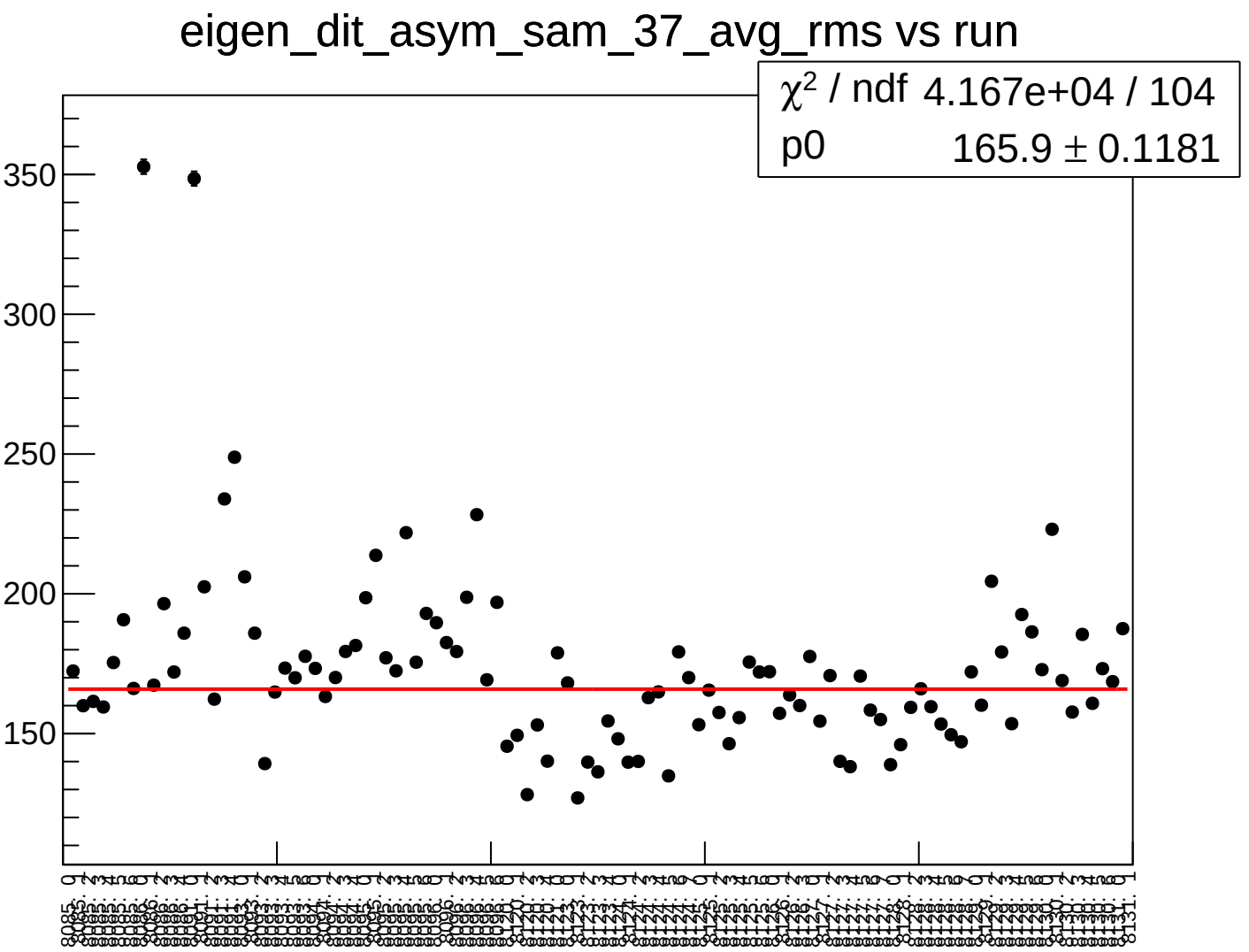

asym_sam_37_avg_dit_correction_mean vs run
χ² / ndf 70.5 / 105
p0 −2471 ± 1740
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean 45.89
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

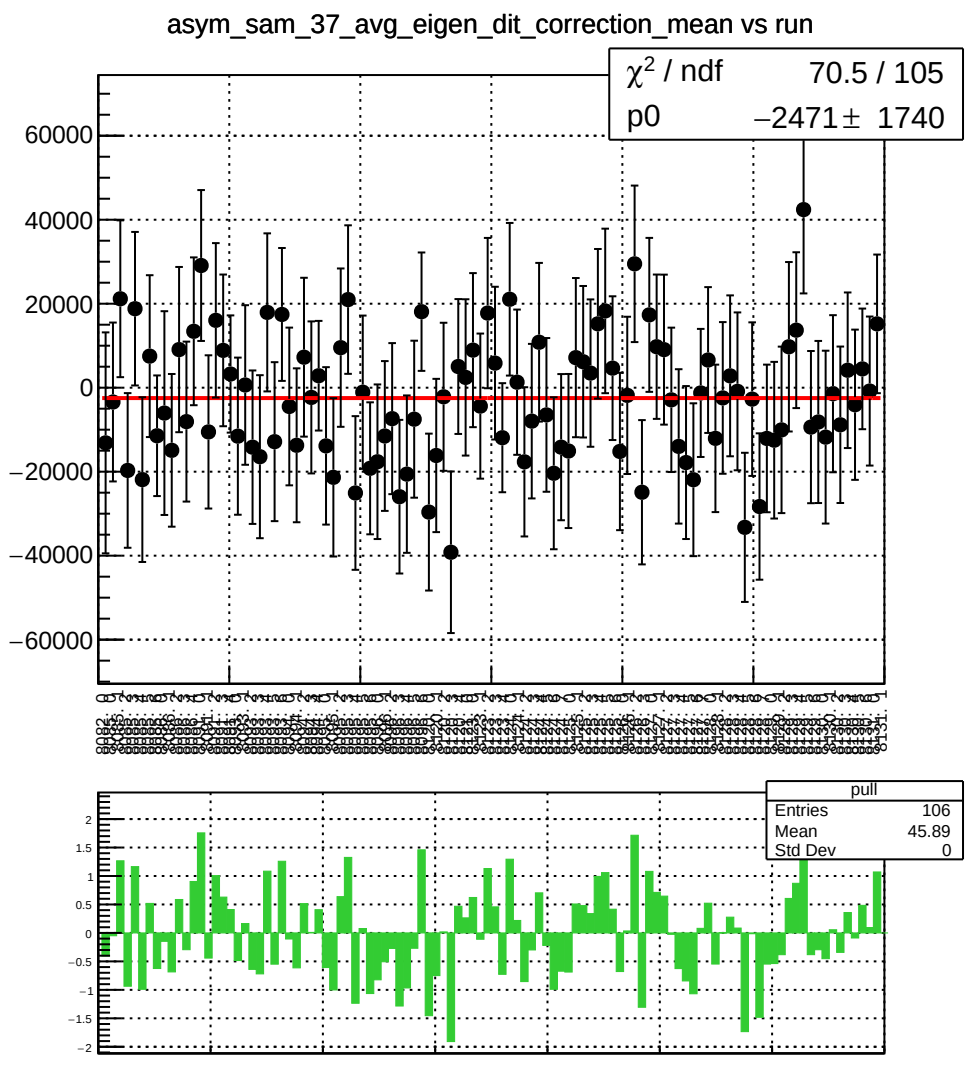

pull1D
Entries 106
Mean −0.005983
Std Dev 0.8155
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

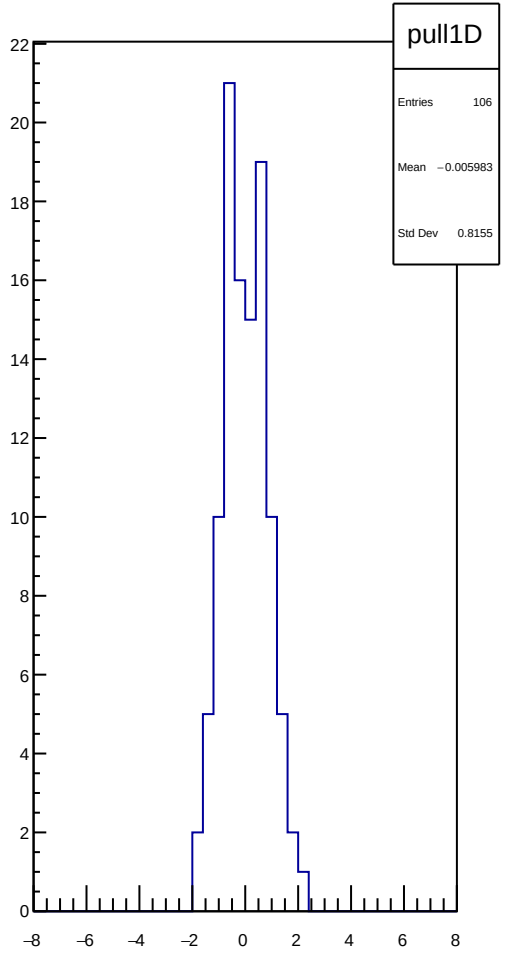

asym_sam_37_avg_dit_correction_rms vs run
χ² / ndf 3674 / 105
p0 1748 ± 1.23
2300
2200
2100
2000
1900
1800
1700
1600

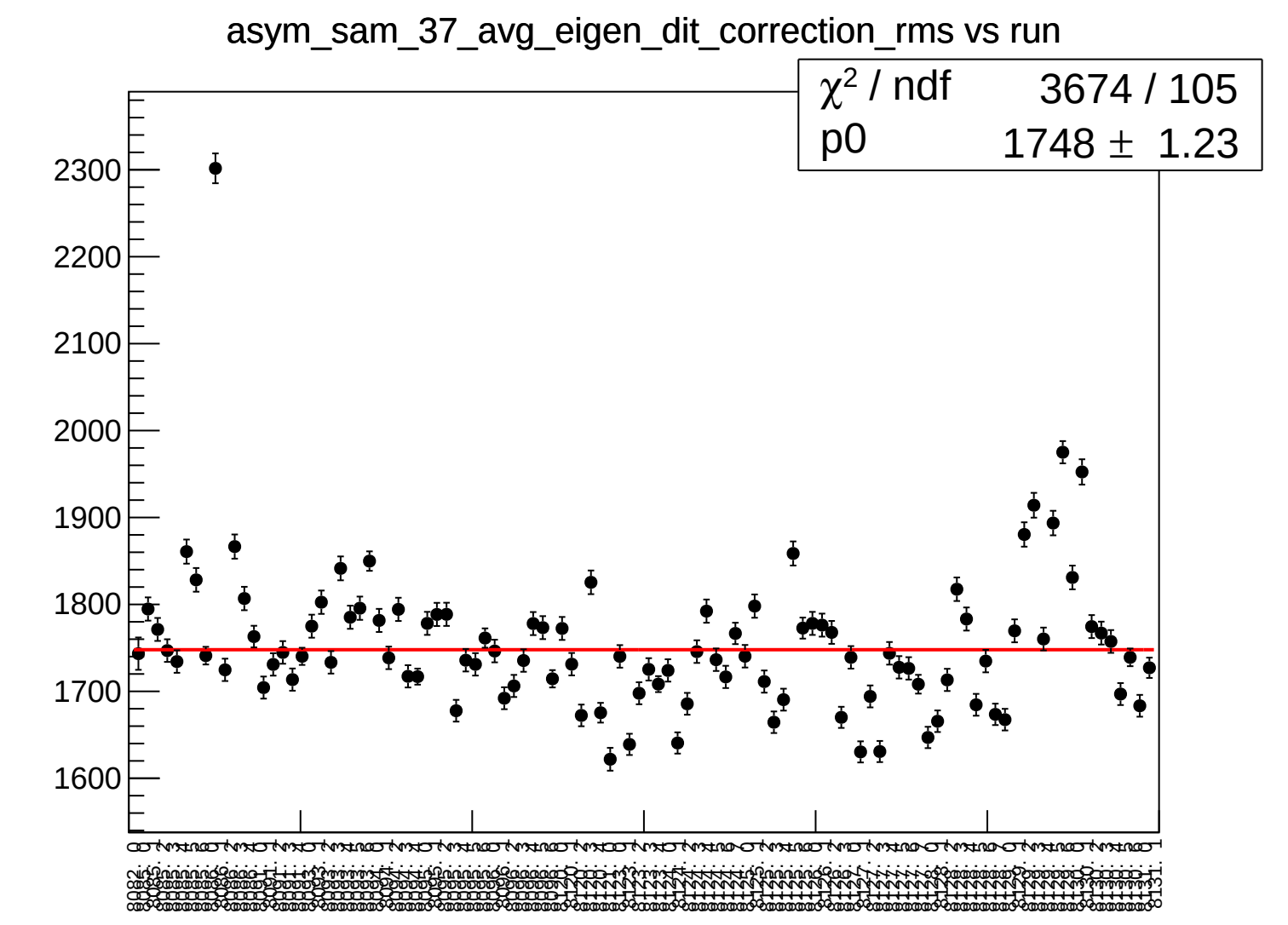

eigen_dit_asym_sam_37_avg_mean vs run
χ² / ndf 100.1 / 104
p0 −217.7 ± 167.1
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 105
Mean −224.7
Std Dev 0
2
1
0
−1
−2

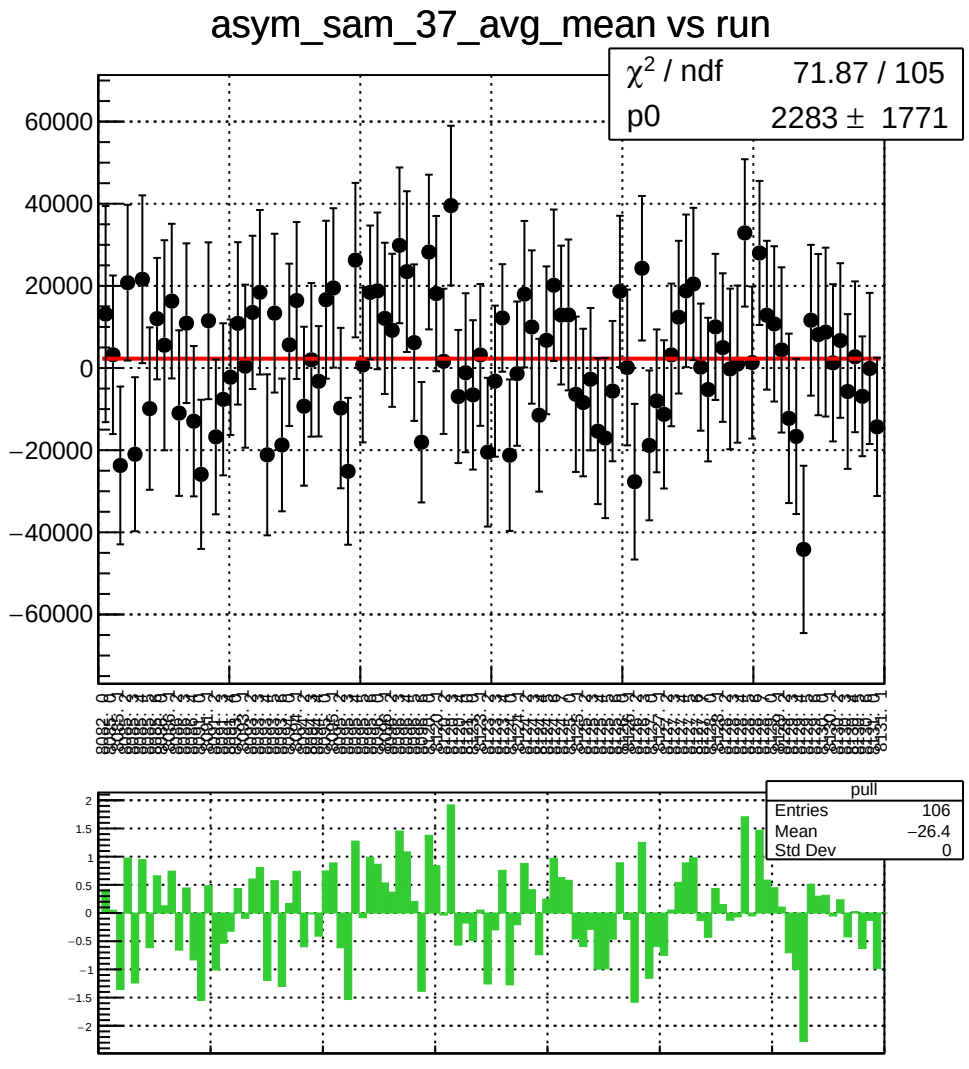

pull1D
Entries 105
Mean 0.01764
Std Dev 0.9764
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

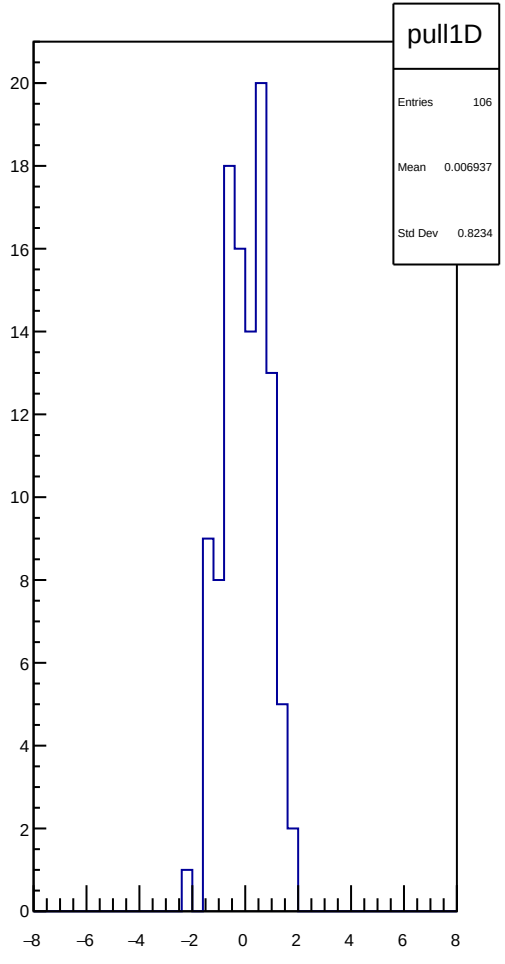

eigen_dit_asym_sam_37_avg_rms vs run
$\chi^2$ / ndf 4.167e+04 / 104
p0 165.9 ± 0.1181
350
300
250
200
150

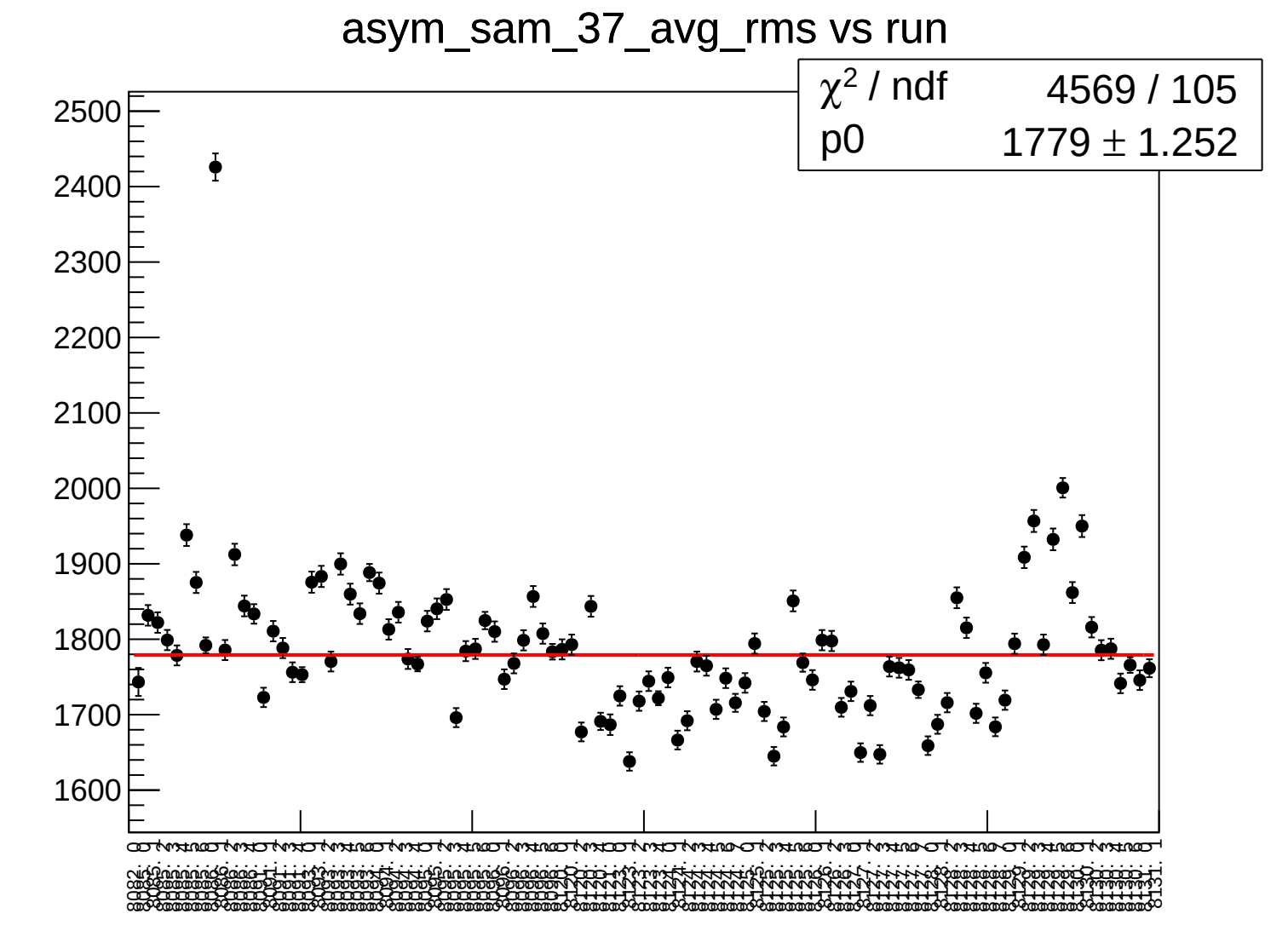

asym_sam_37_avg_eigen_dit_correction_mean vs run
χ² / ndf 70.5 / 105
p0 −2471 ± 1740
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean 45.89
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

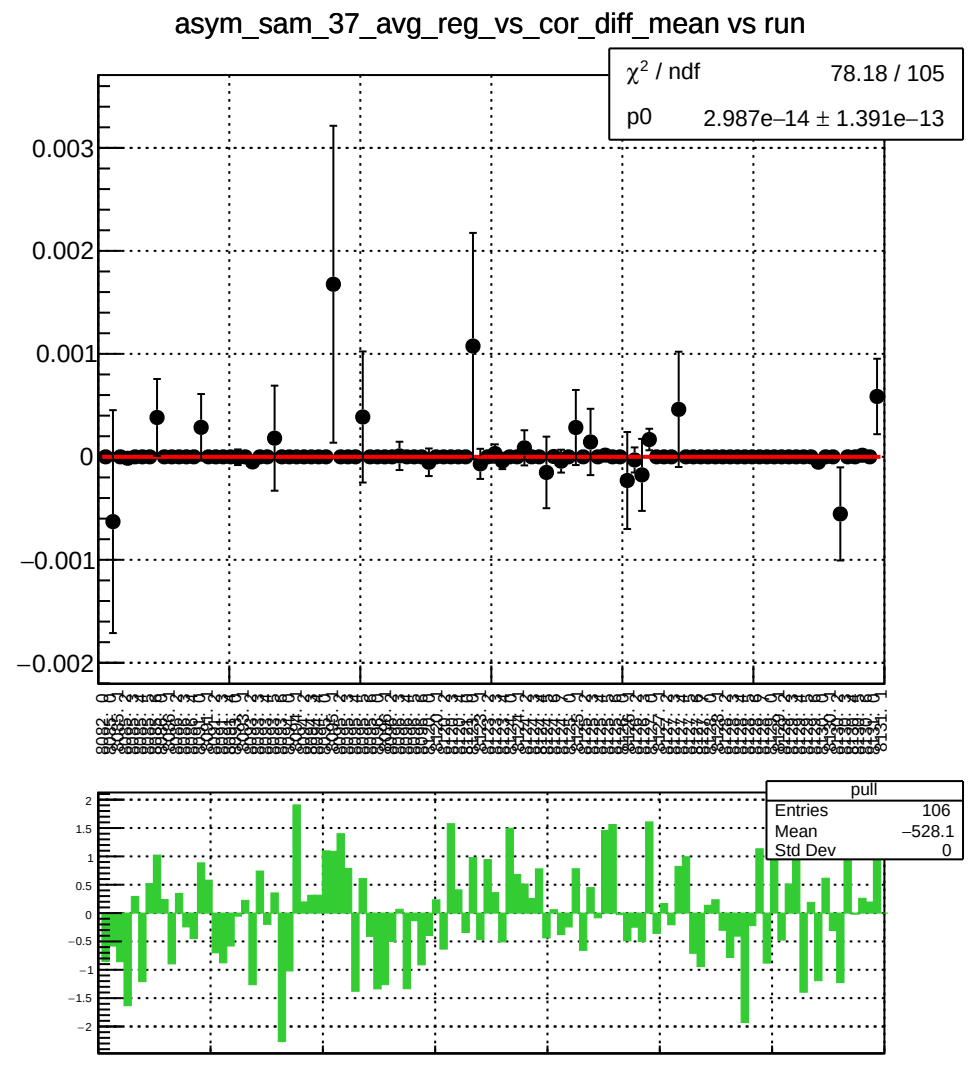

pull1D
Entries 106
Mean −0.005983
Std Dev 0.8155
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

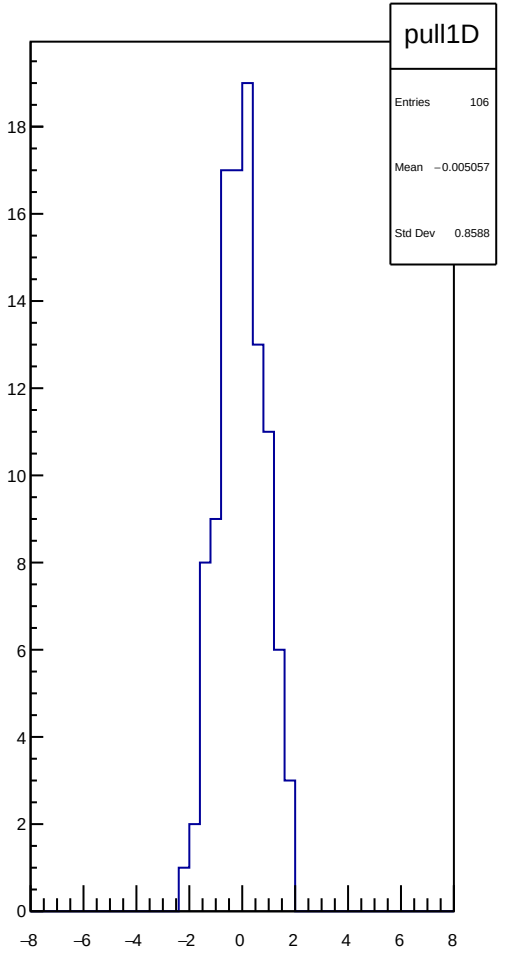

asym_sam_37_avg_eigen_dit_correction_rms vs run
χ² / ndf 3674 / 105
p0 1748 ± 1.23
2300
2200
2100
2000
1900
1800
1700
1600

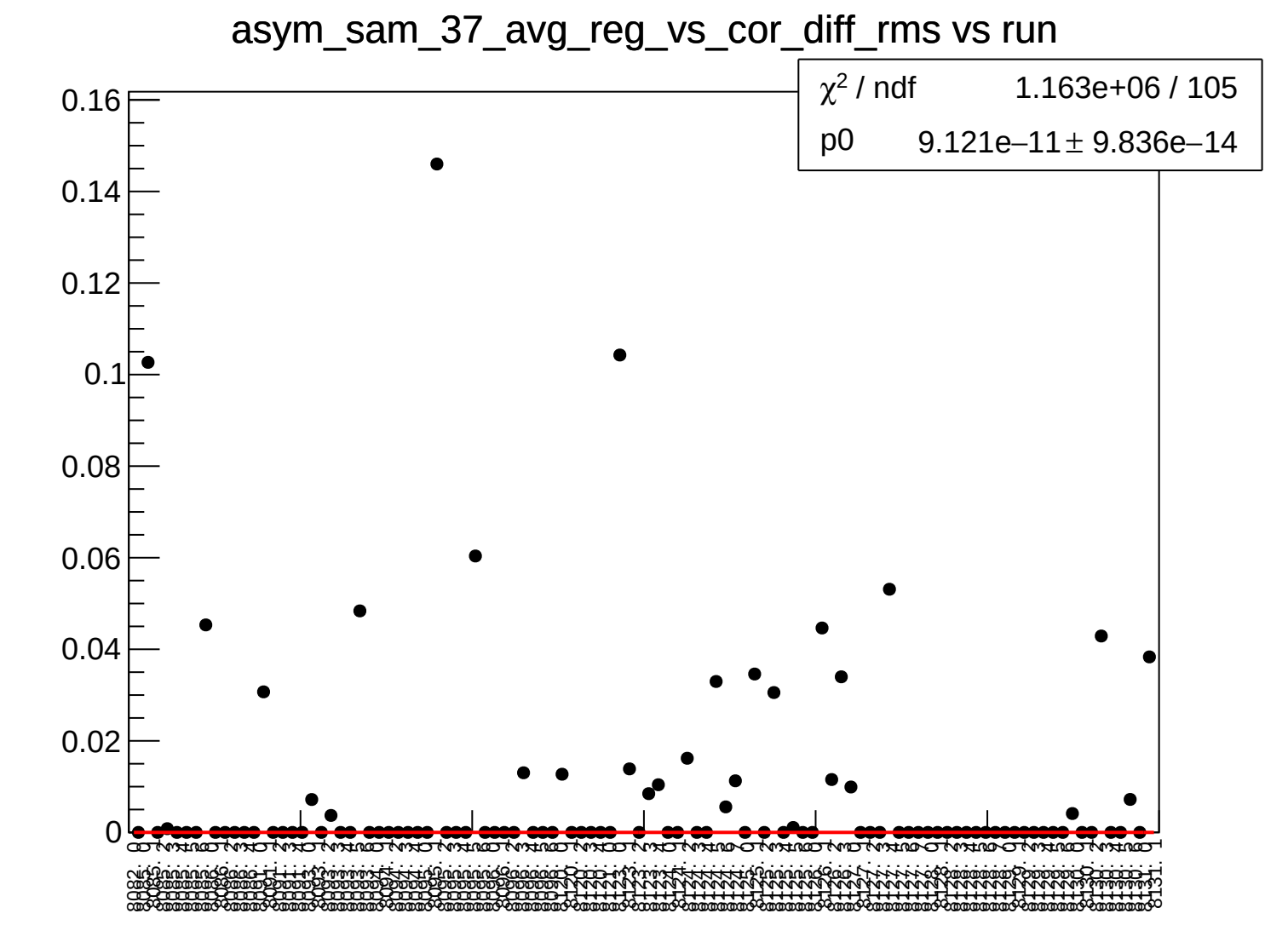

asym_sam_37_avg_mean vs run
χ² / ndf 71.87 / 105
p0 2283 ± 1771
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean −26.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

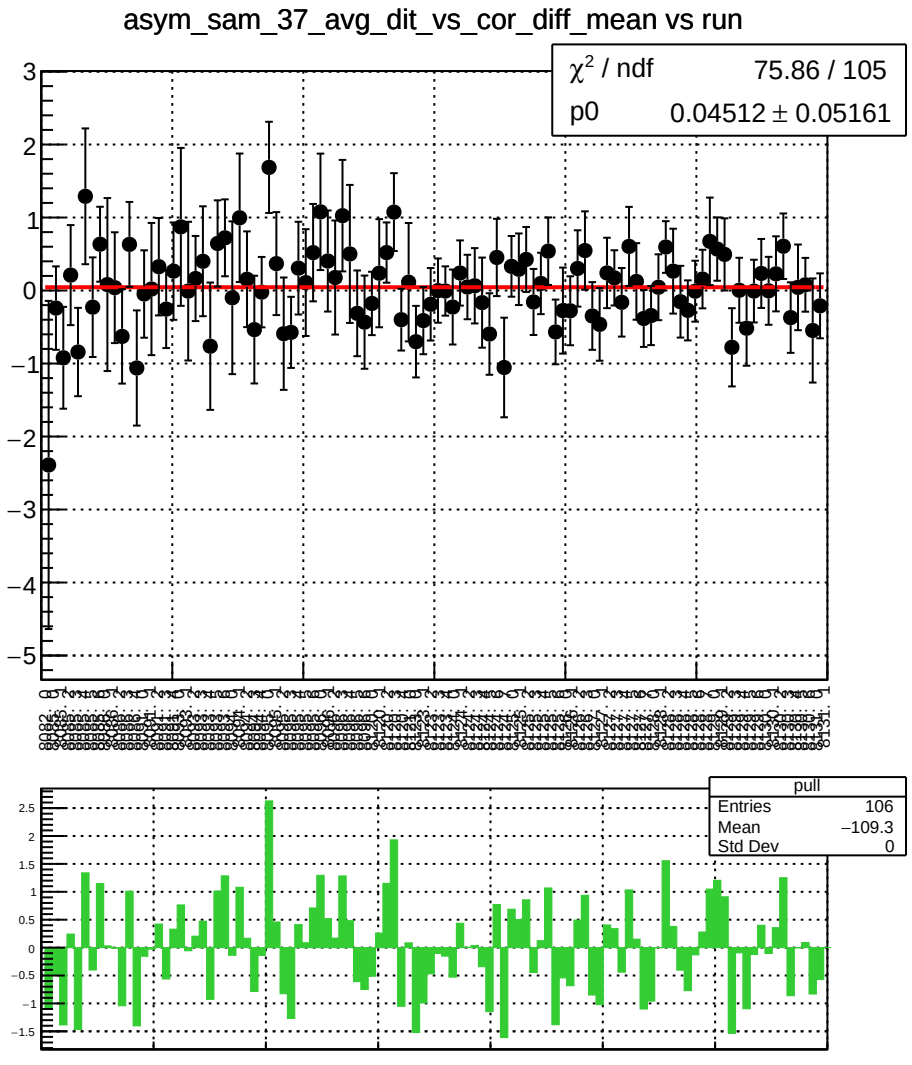

pull1D
Entries 106
Mean 0.006937
Std Dev 0.8234
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

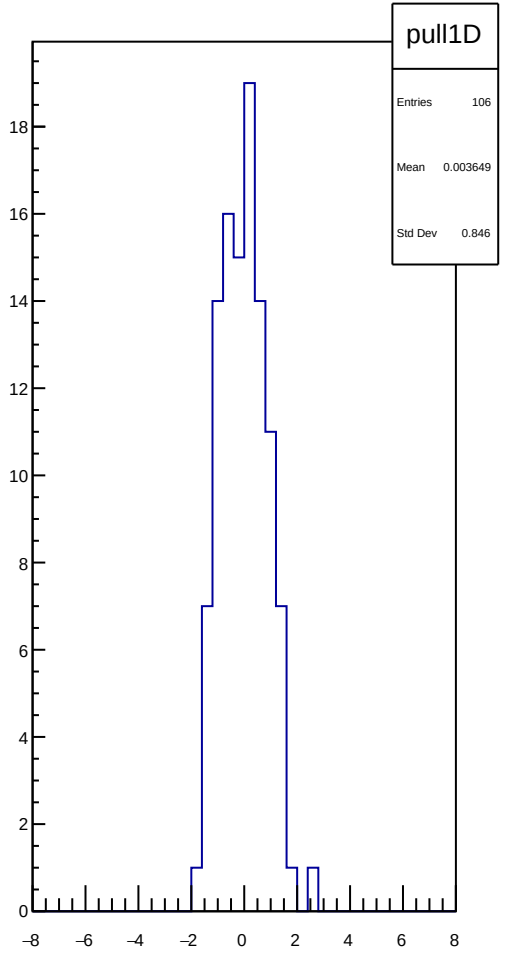

asym_sam_37_avg_rms vs run
χ² / ndf 4569 / 105
p0 1779 ± 1.252
2500
2400
2300
2200
2100
2000
1900
1800
1700
1600

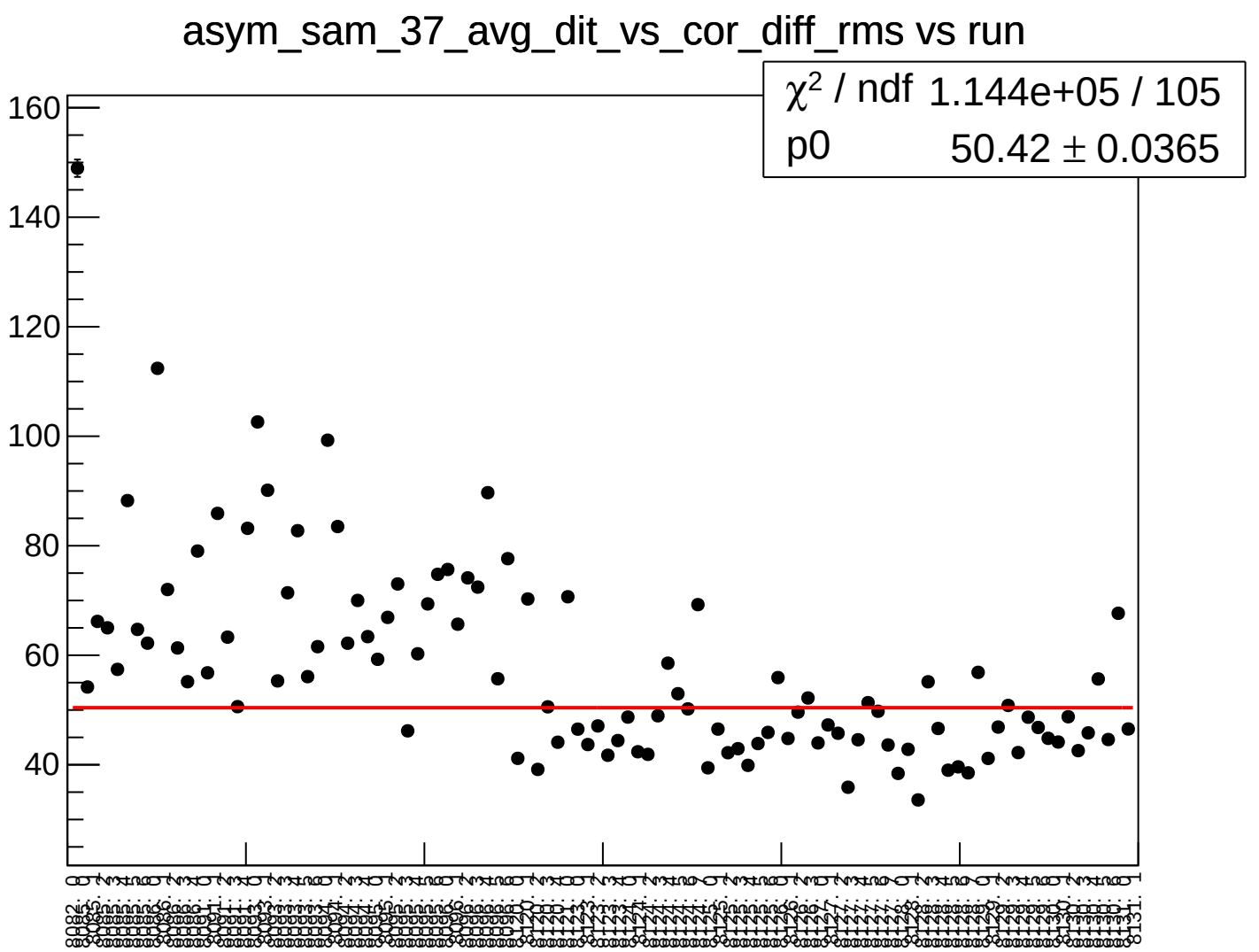

asym_sam_37_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 78.18 / 105
p0 2.987e−14 ± 1.391e−13
0.003
0.002
0.001
0
−0.001
−0.002
pull
Entries 106
Mean −528.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

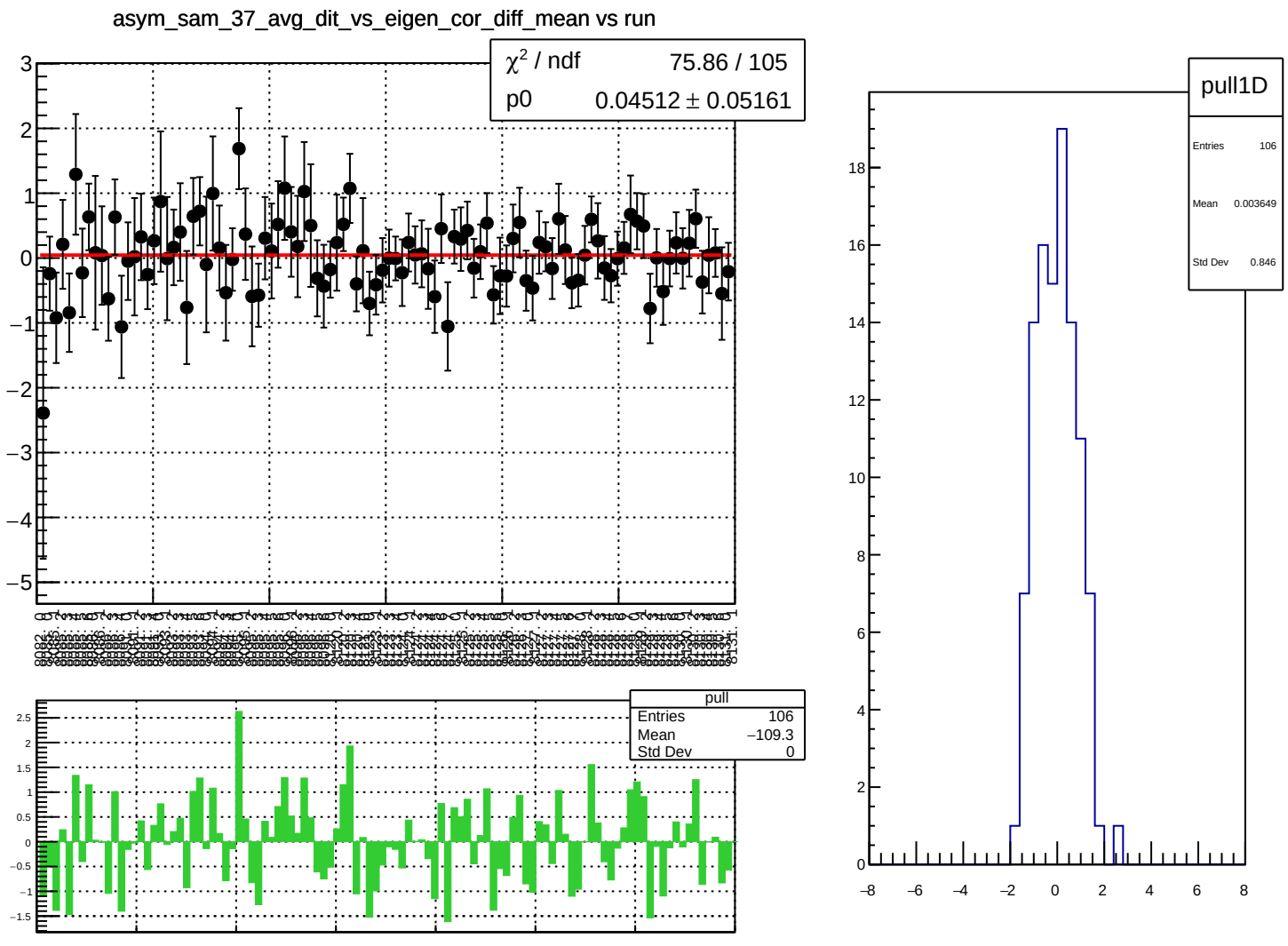

pull1D
Entries 106
Mean −0.005057
Std Dev 0.8588
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

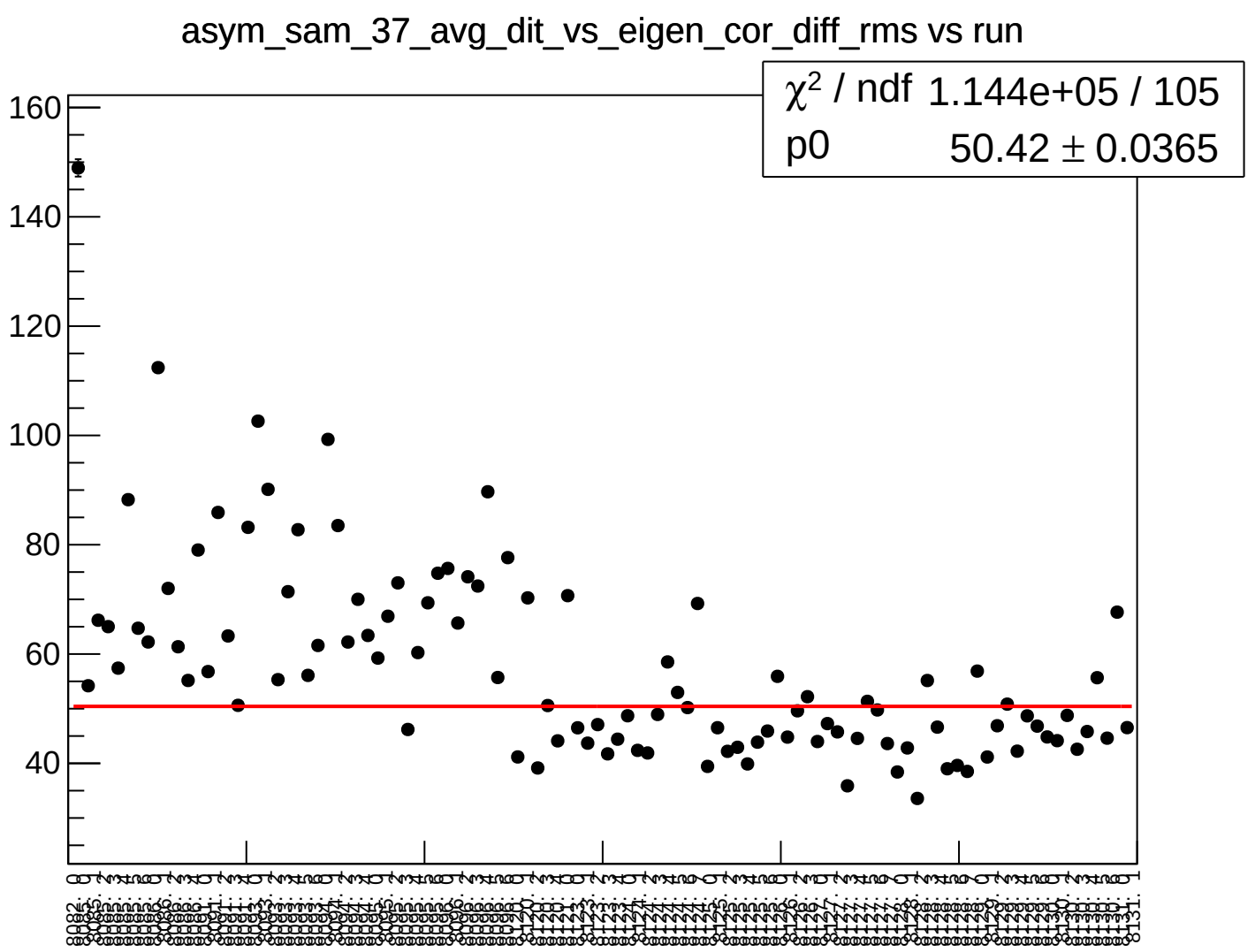

asym_sam_37_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.163e+06 / 105
p0 9.121e−11 ± 9.836e−14
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

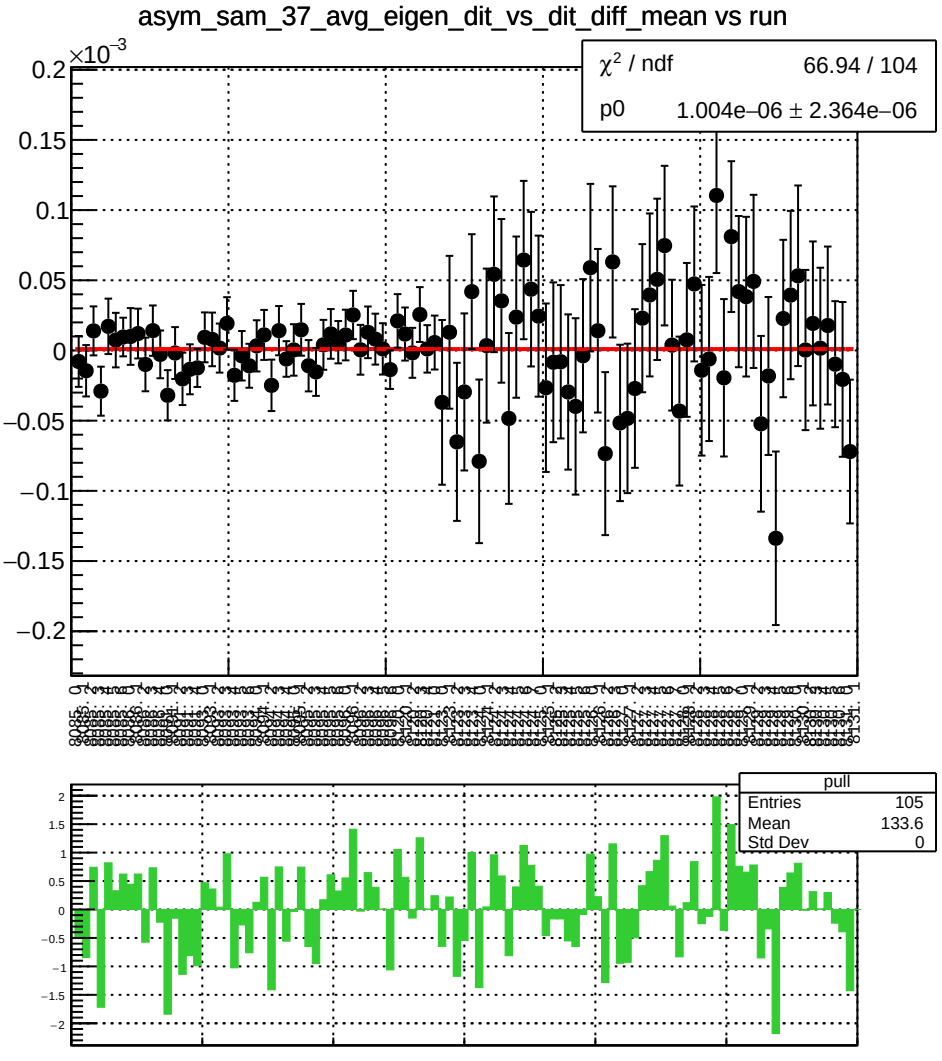

asym_sam_37_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 75.86 / 105
p0 0.04512 ± 0.05161
pull
Entries 106
Mean −109.3
Std Dev 0

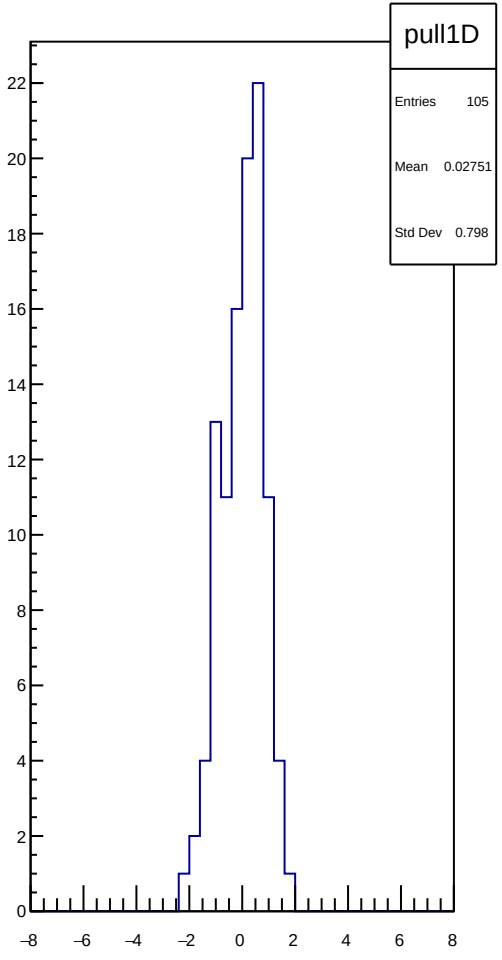

pull1D
Entries 106
Mean 0.003649
Std Dev 0.846

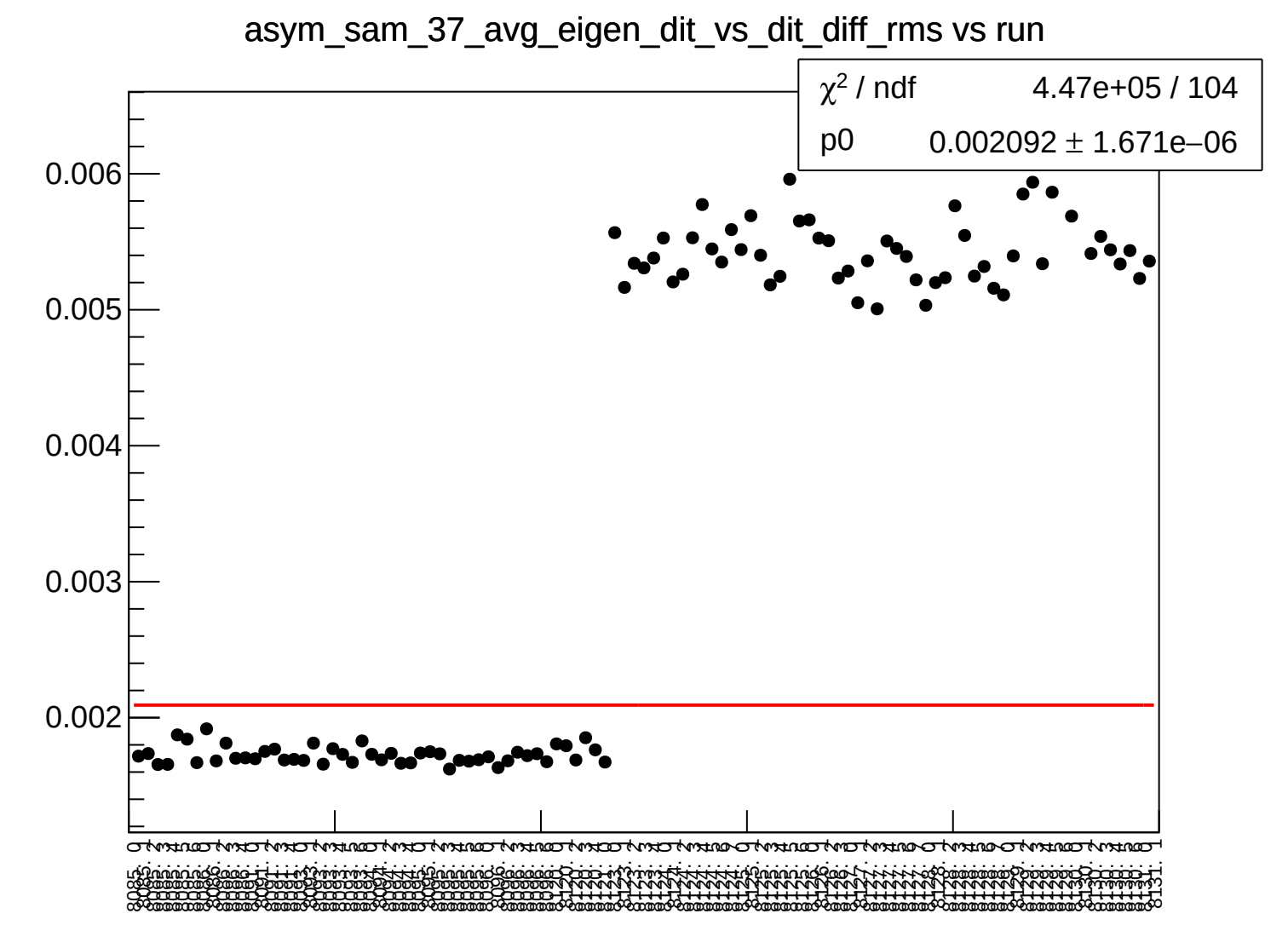

asym_sam_37_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.144e+05 / 105
p0 50.42 ± 0.0365
160
140
120
100
80
60
40

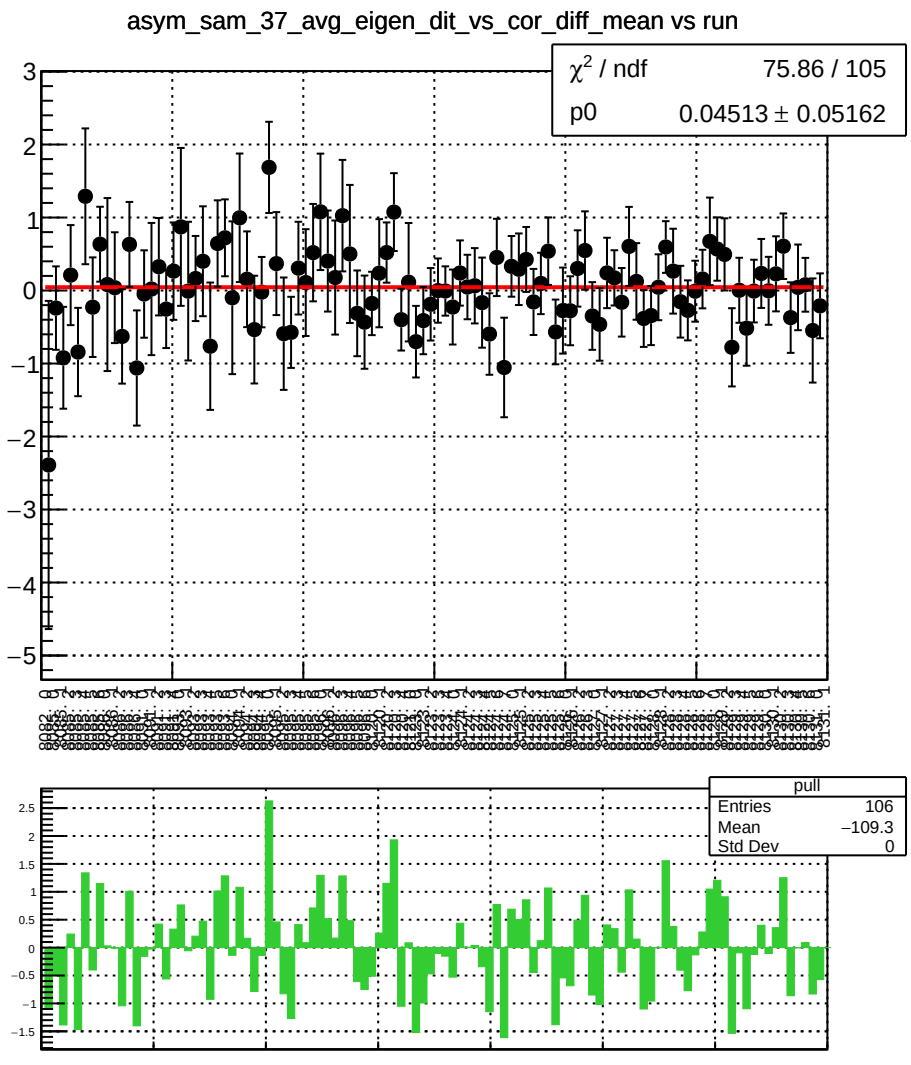

asym_sam_37_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.86 / 105
p0 0.04512 ± 0.05161
pull
Entries 106
Mean −109.3
Std Dev 0
pull1D
Entries 106
Mean 0.003649
Std Dev 0.846

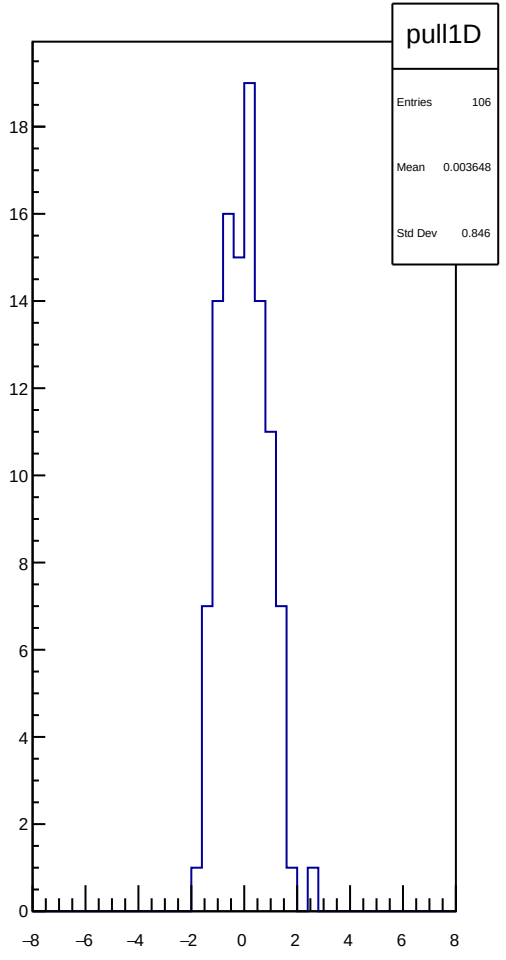

asym_sam_37_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.144e+05 / 105
p0 50.42 ± 0.0365
160
140
120
100
80
60
40

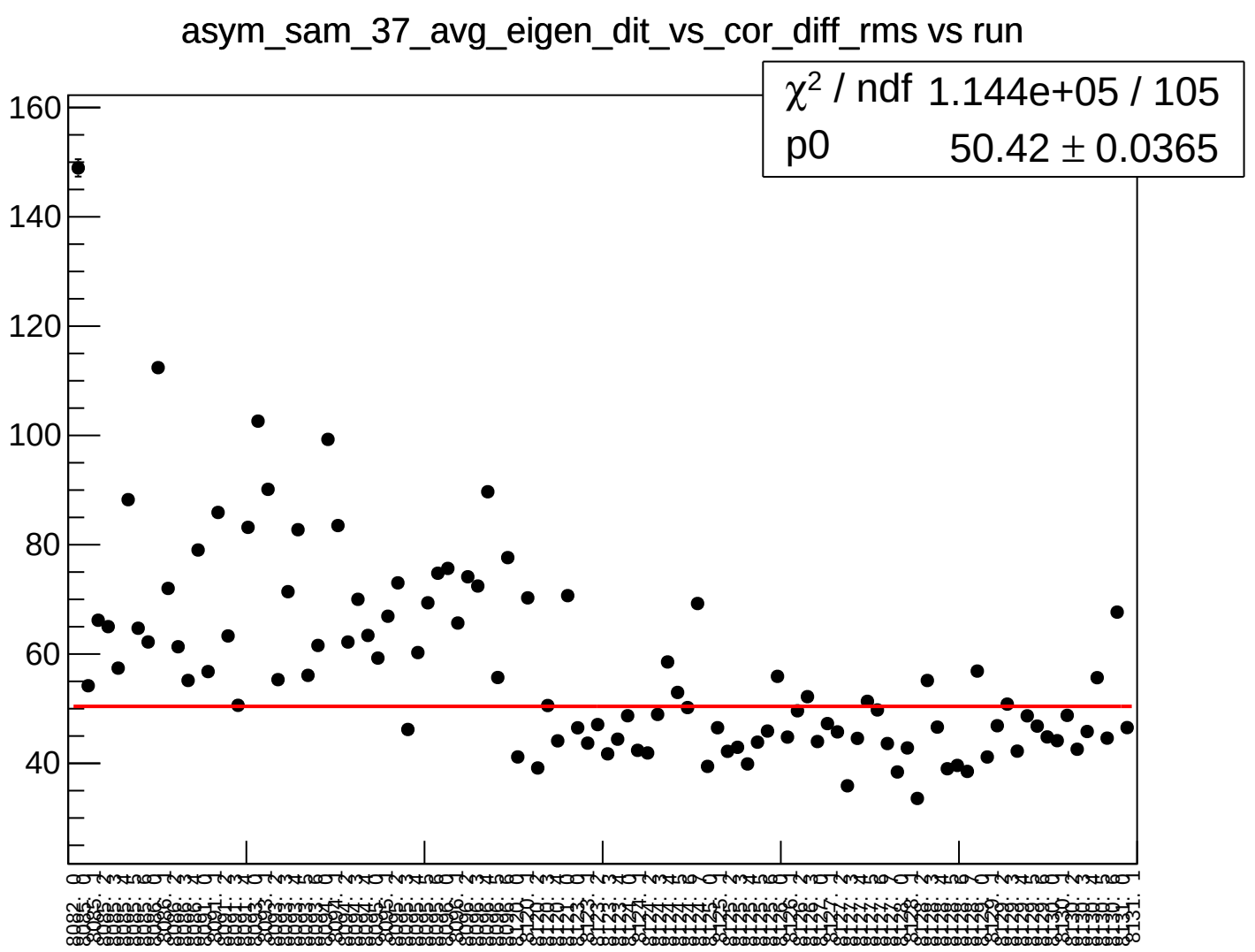

asym_sam_37_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 66.94 / 104
p0 1.004e−06 ± 2.364e−06
pull
Entries 105
Mean 133.6
Std Dev 0

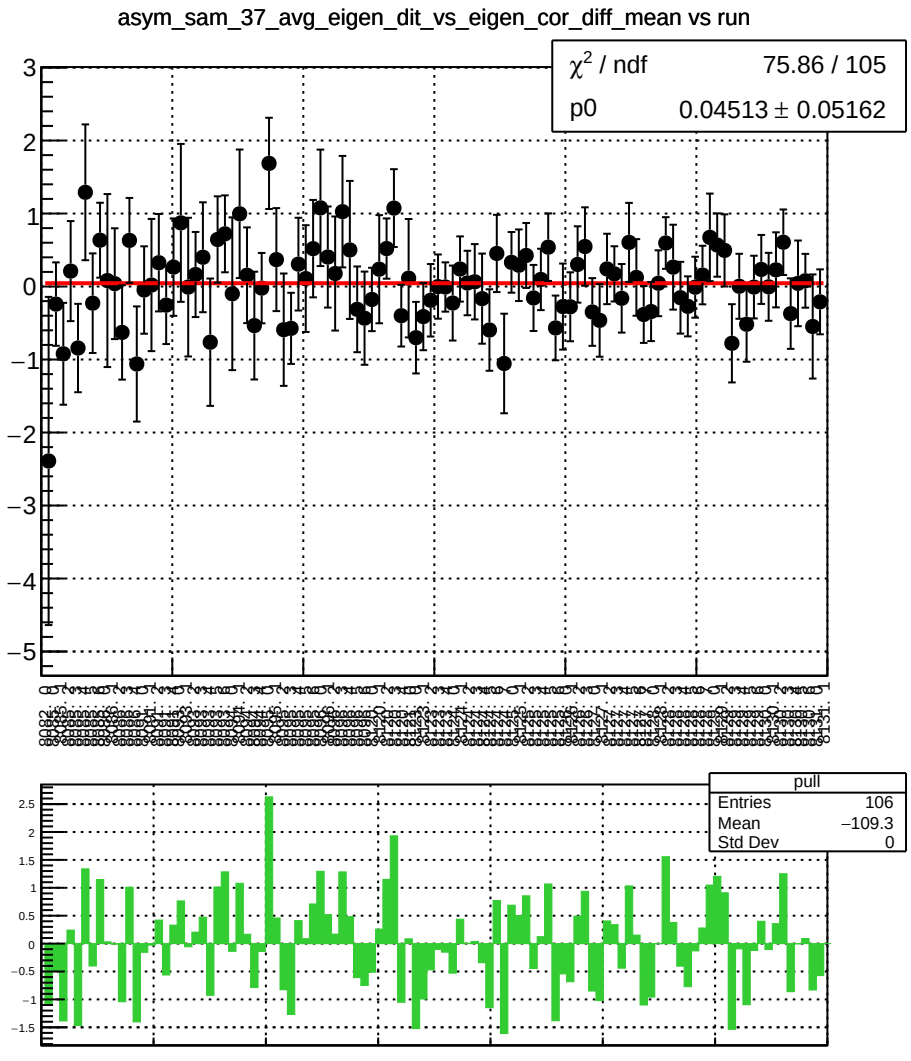

pull1D
Entries 105
Mean 0.02751
Std Dev 0.798

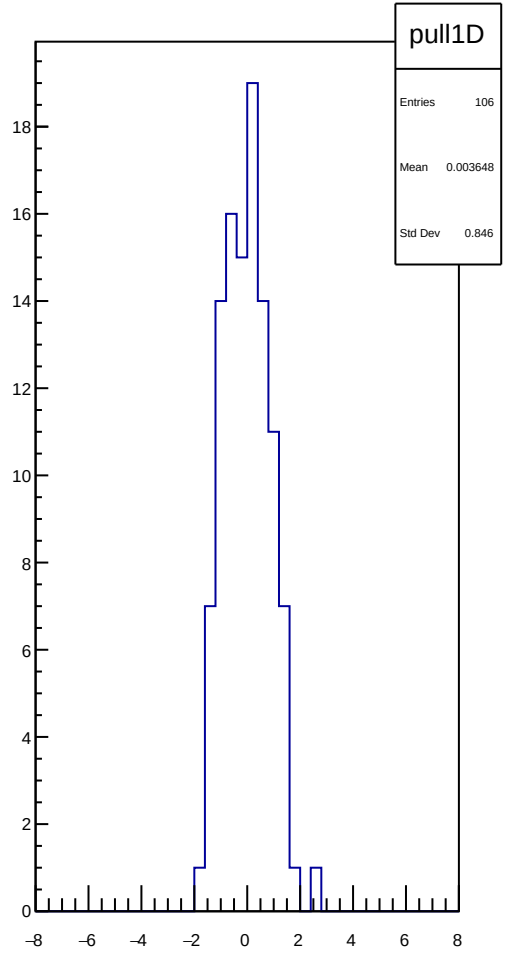

asym_sam_37_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.47e+05 / 104
p0 0.002092 ± 1.671e−06
0.006
0.005
0.004
0.003
0.002

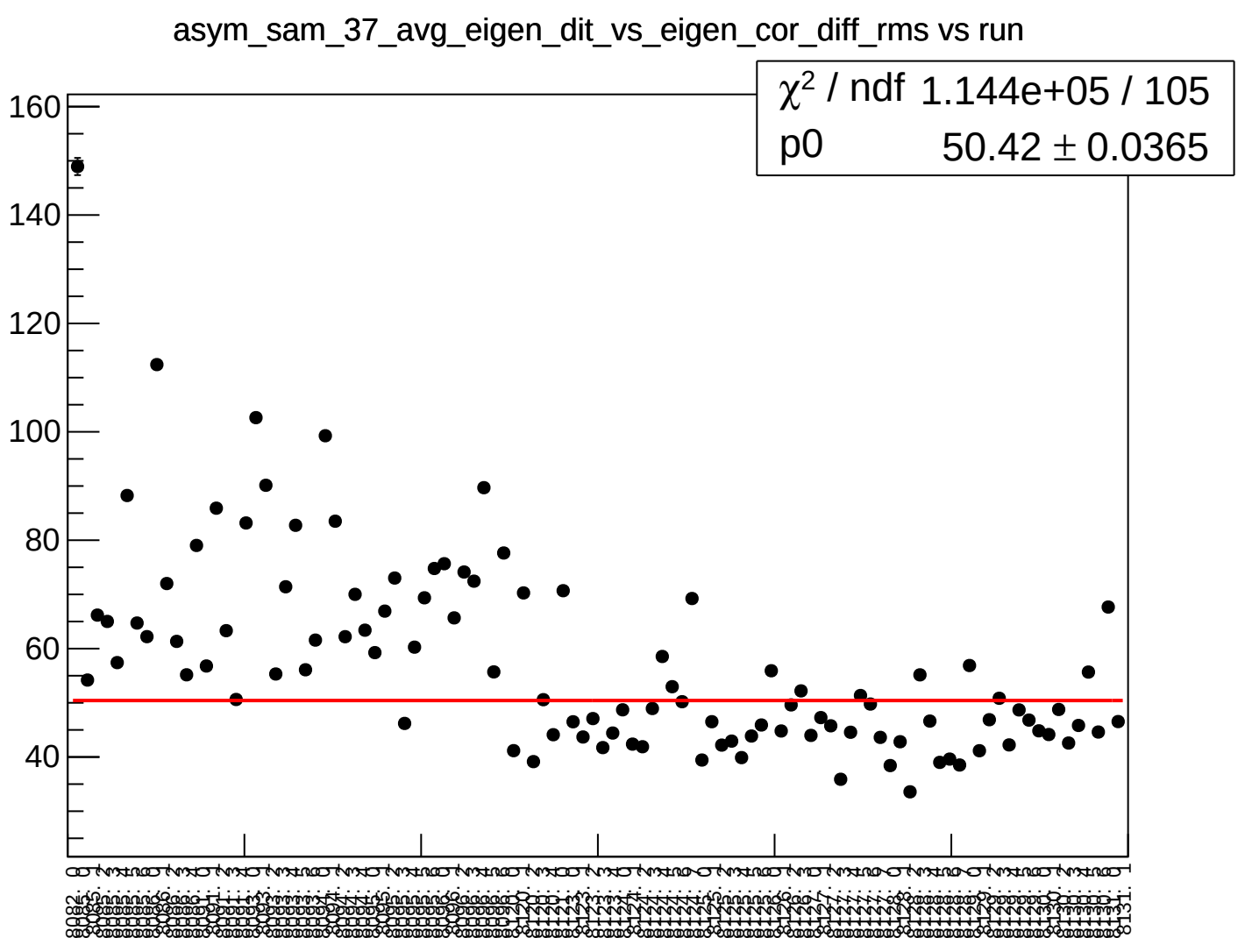

asym_sam_37_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 75.86 / 105
p0 0.04513 ± 0.05162
pull
Entries 106
Mean −109.3
Std Dev 0

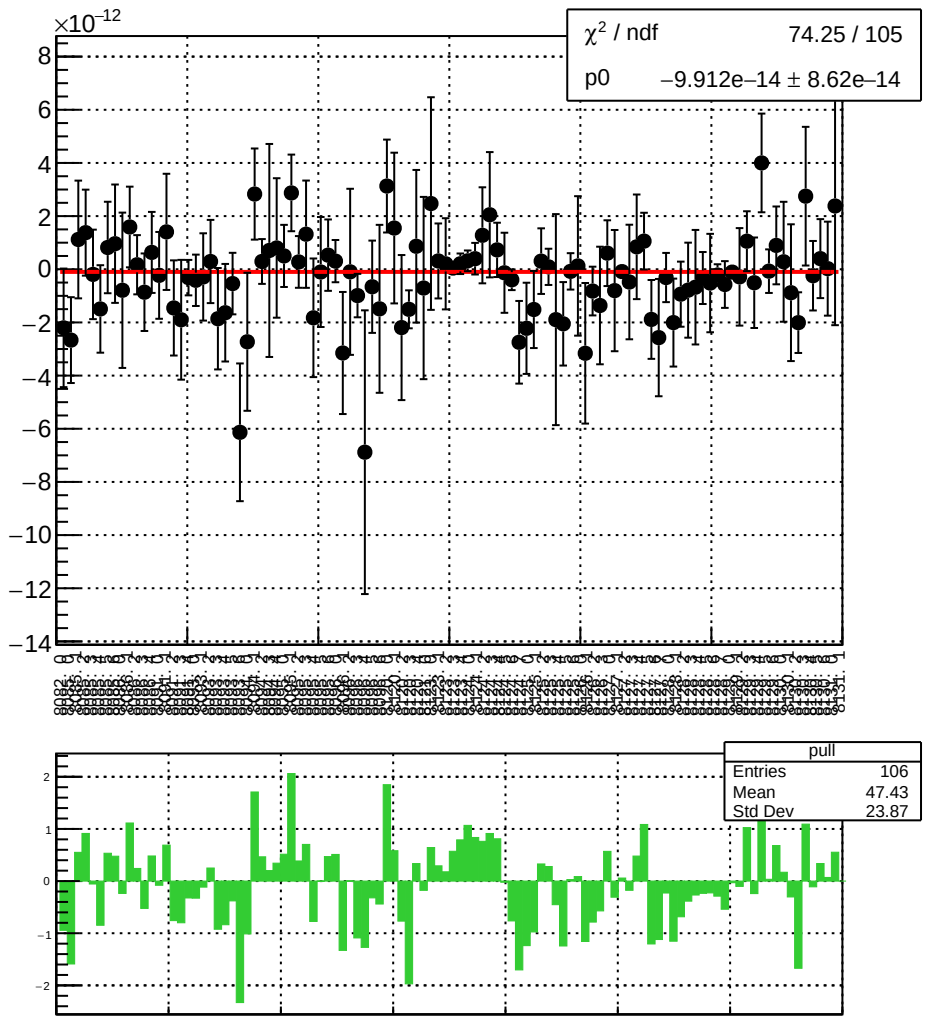

pull1D
Entries 106
Mean 0.003648
Std Dev 0.846

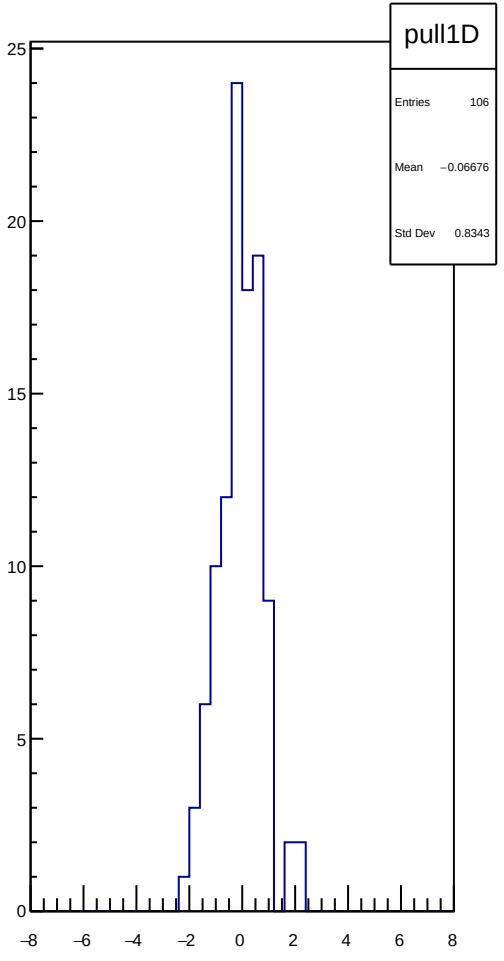

asym_sam_37_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.144e+05 / 105
p0 50.42 ± 0.0365
160
140
120
100
80
60
40

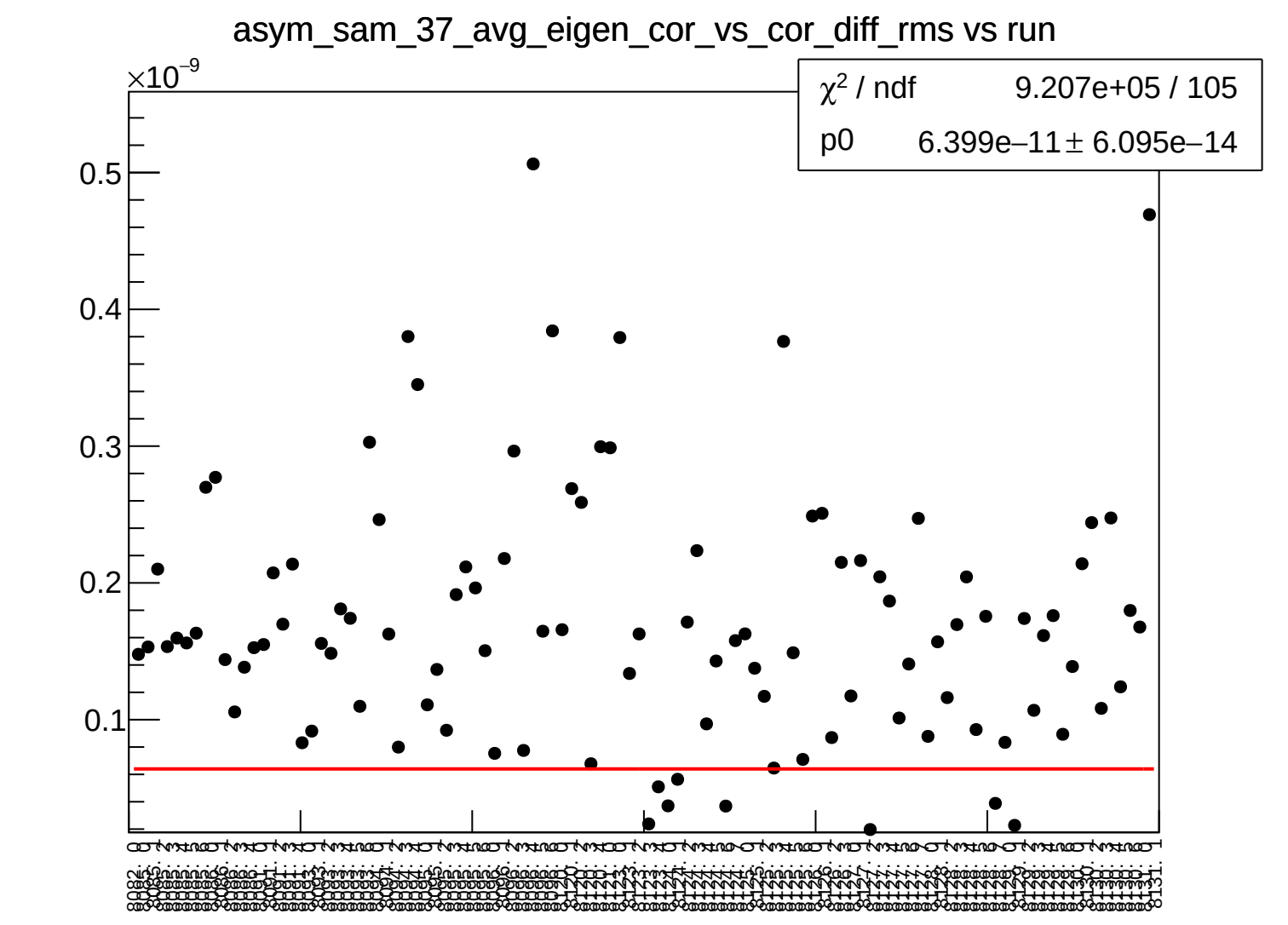

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 75.86 / 105
p0 0.04513 ± 0.05162
pull
Entries 106
Mean −109.3
Std Dev 0

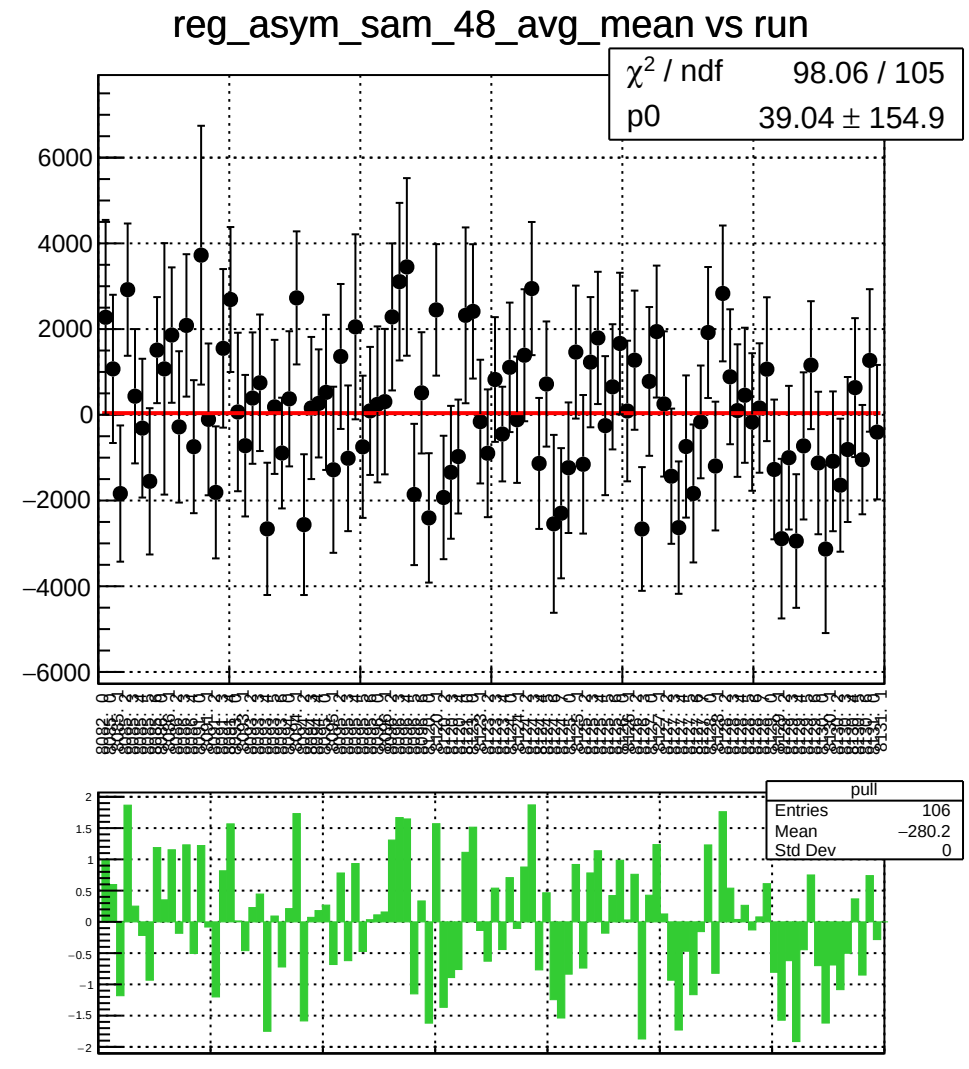

pull1D
Entries 106
Mean 0.003648
Std Dev 0.846

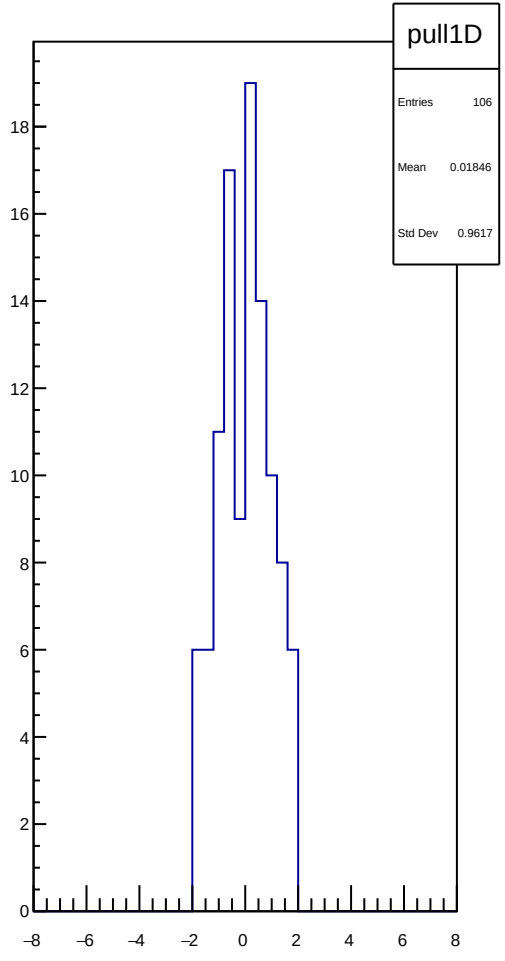

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.144e+05 / 105
p0 50.42 ± 0.0365
160
140
120
100
80
60
40

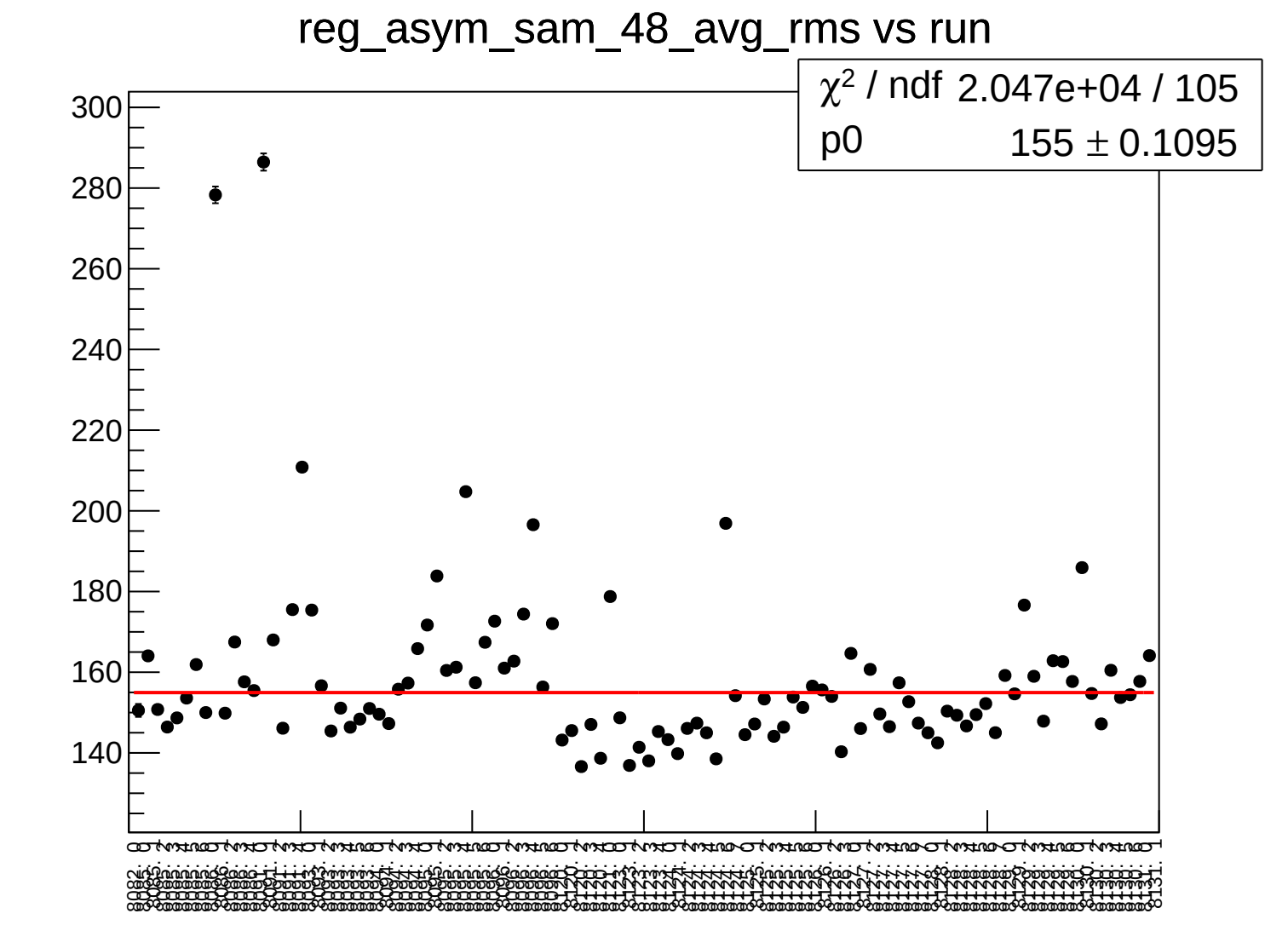

asym_sam_37_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 74.25 / 105
p0 −9.912e−14 ± 8.62e−14
pull
Entries 106
Mean 47.43
Std Dev 23.87

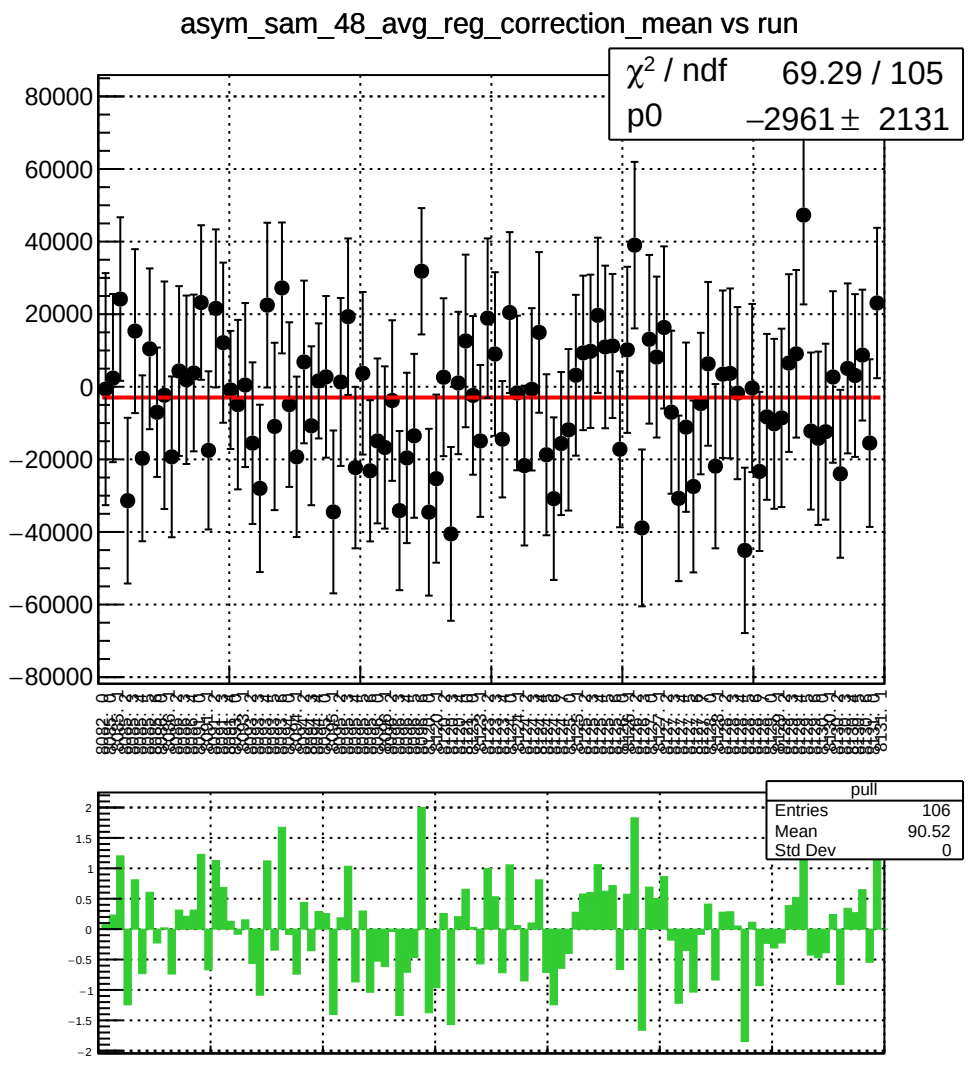

pull1D
Entries 106
Mean −0.06676
Std Dev 0.8343

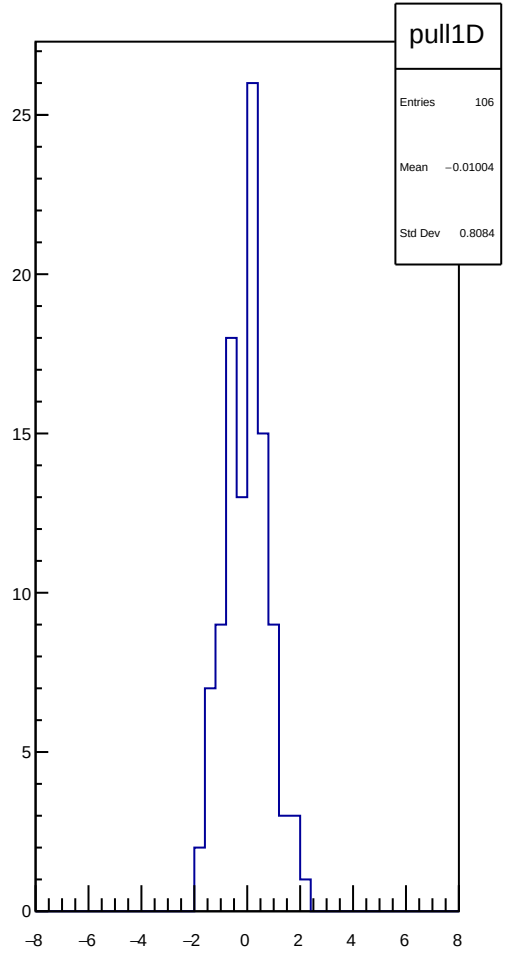

asym_sam_37_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.207e+05 / 105
p0 6.399e−11 ± 6.095e−14
0.5
0.4
0.3
0.2
0.1

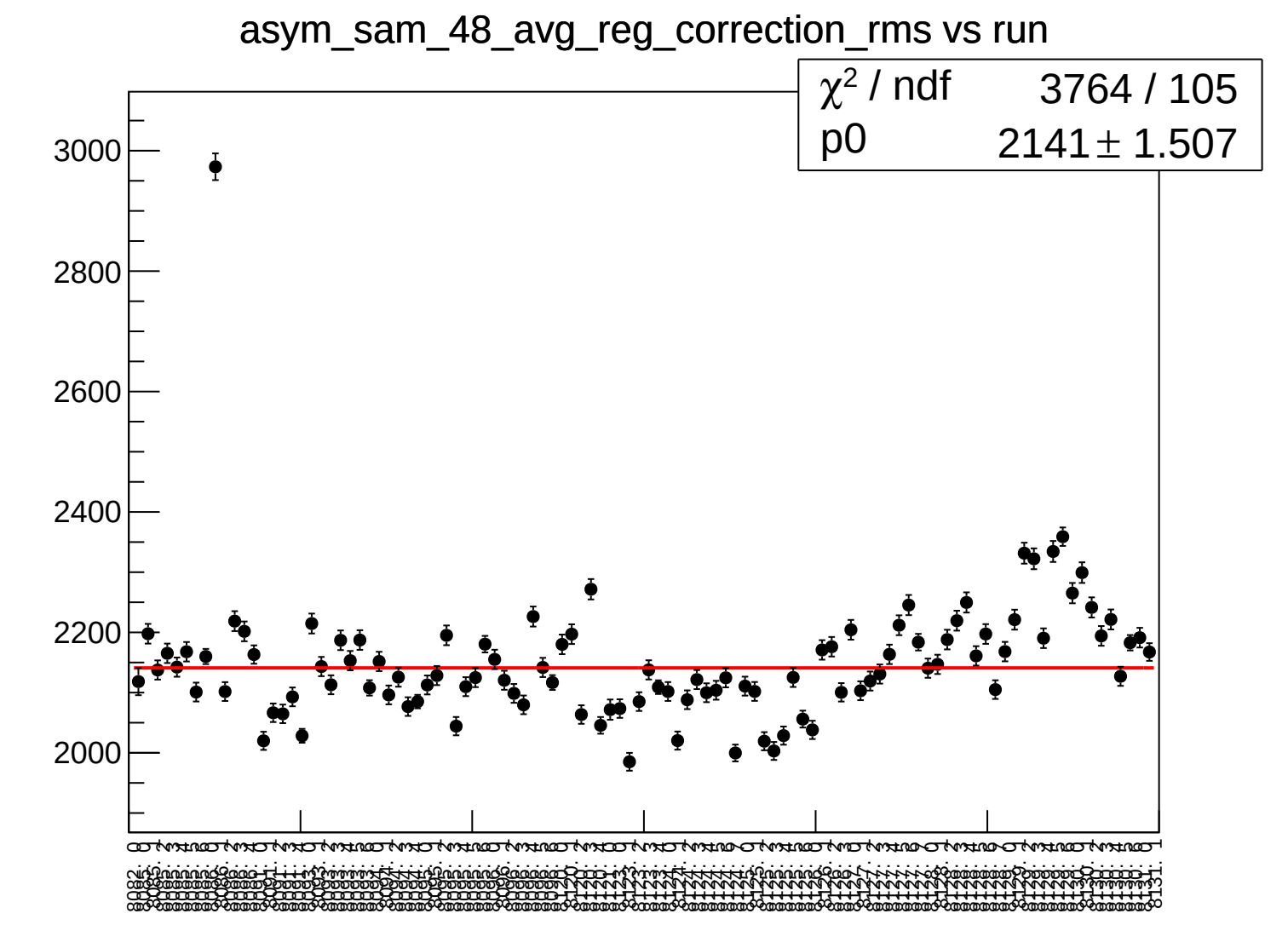

reg_asym_sam_48_avg_mean vs run
χ² / ndf 98.06 / 105
p0 39.04 ± 154.9
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 106
Mean −280.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

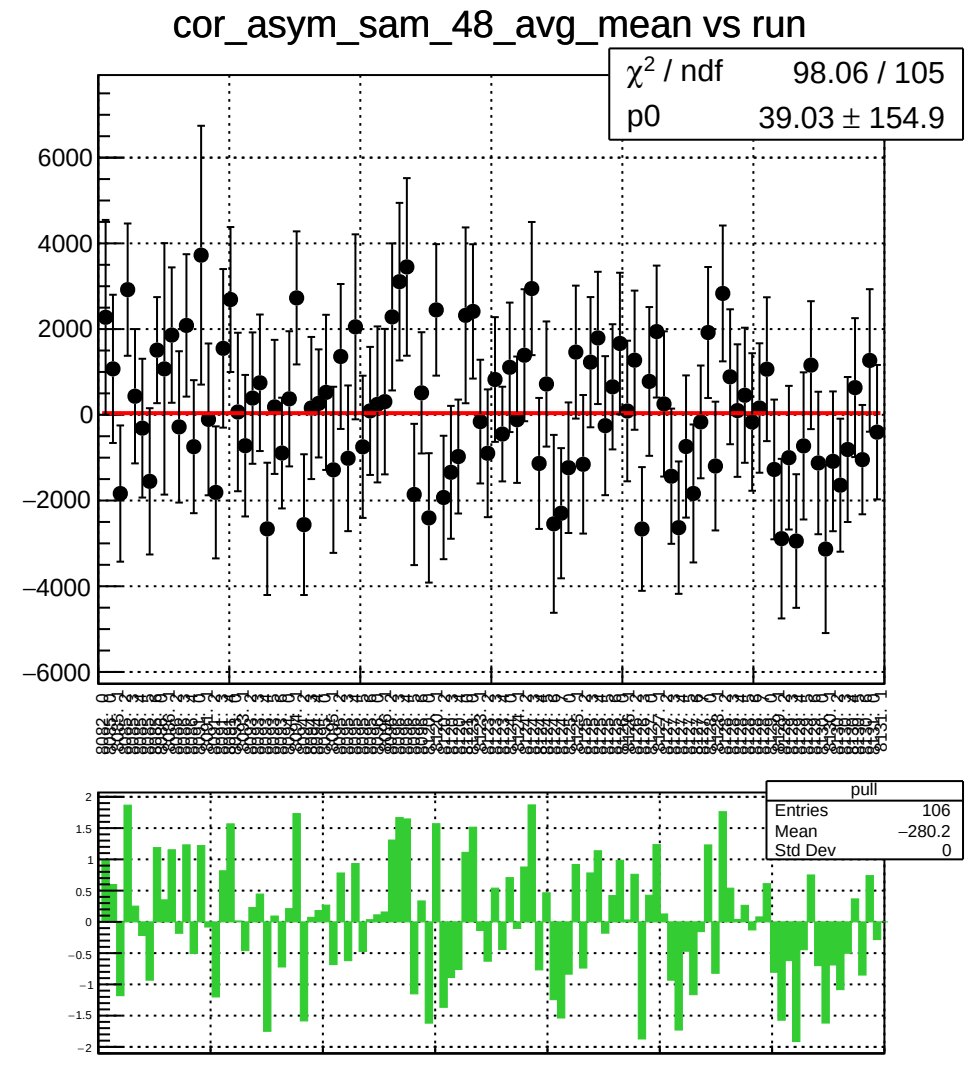

pull1D
Entries 106
Mean 0.01846
Std Dev 0.9617
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

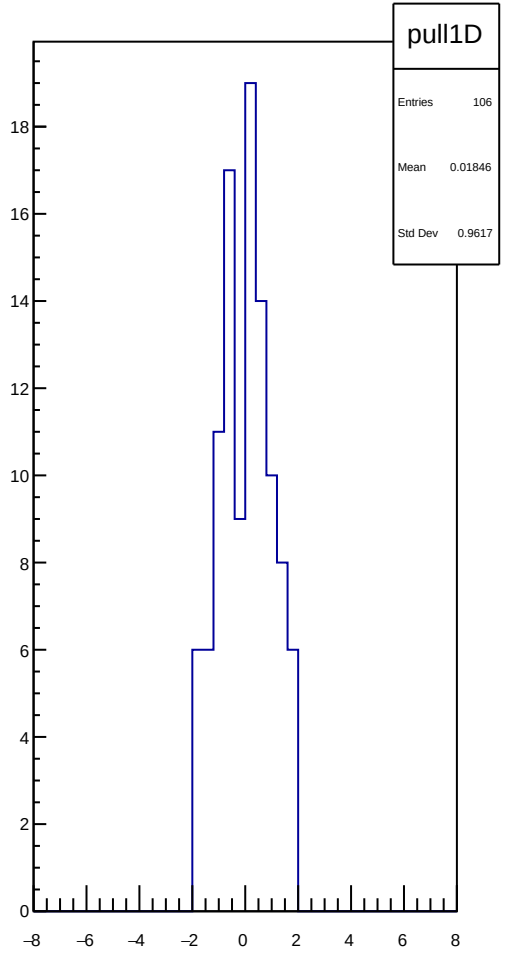

reg_asym_sam_48_avg_rms vs run
$\chi^2$ / ndf 2.047e+04 / 105
p0 155 ± 0.1095
300
280
260
240
220
200
180
160
140

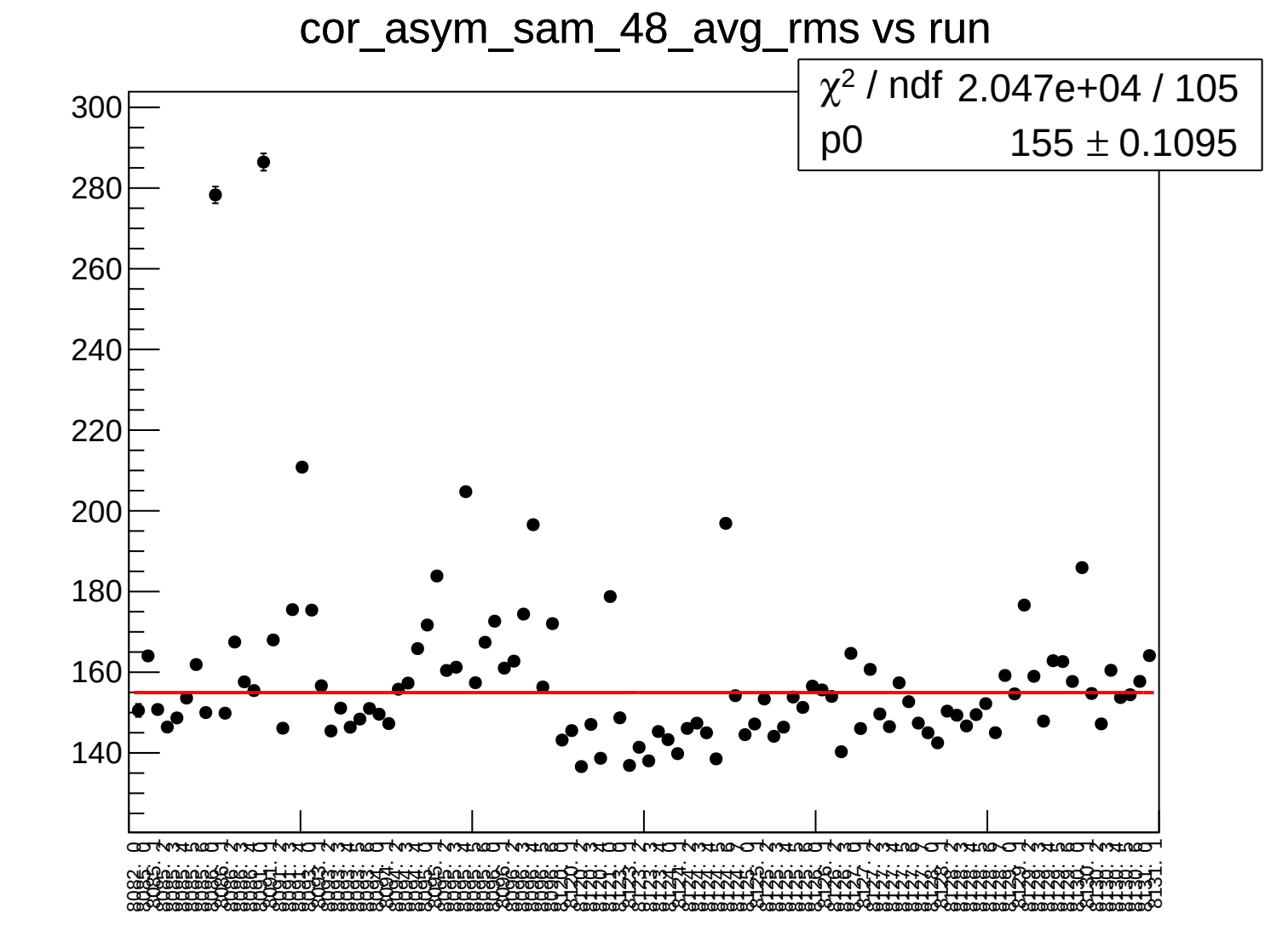

asym_sam_48_avg_reg_correction_mean vs run
χ² / ndf 69.29 / 105
p0 −2961 ± 2131
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 106
Mean 90.52
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

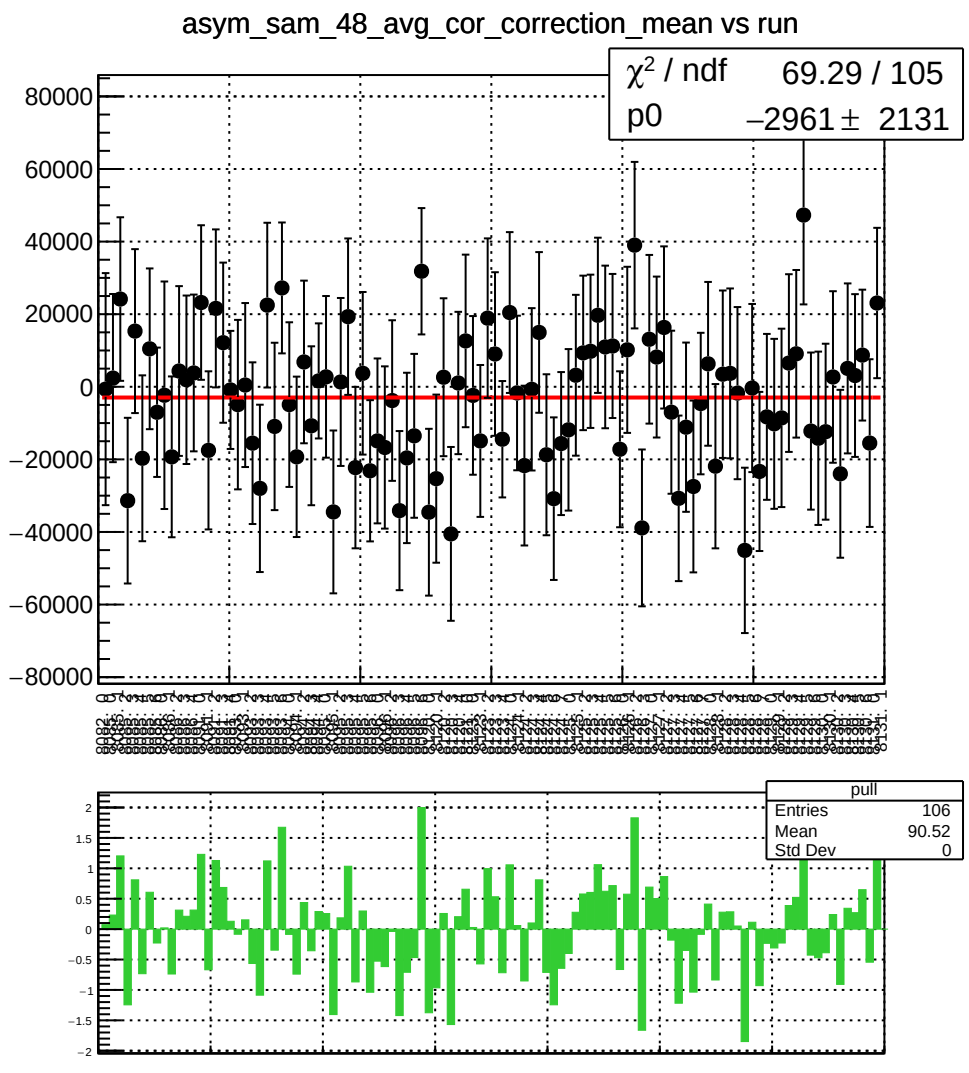

pull1D
Entries 106
Mean −0.01004
Std Dev 0.8084
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

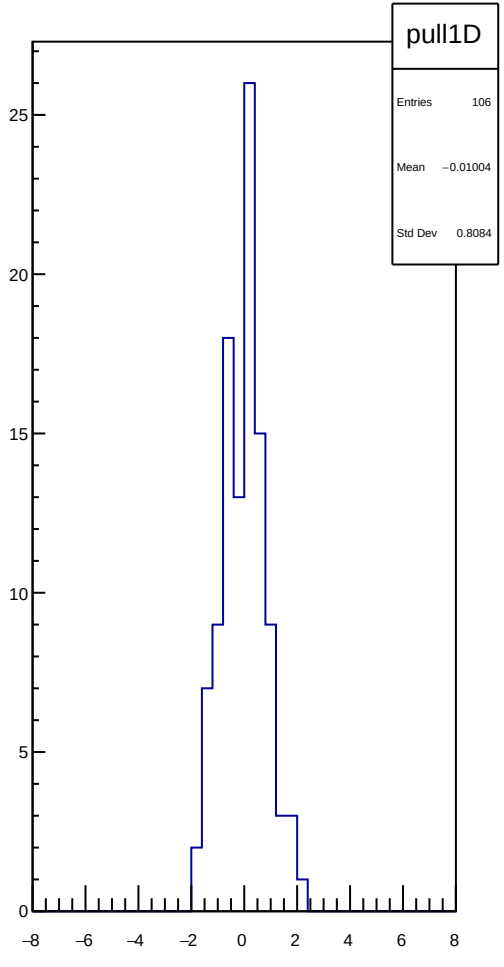

asym_sam_48_avg_reg_correction_rms vs run
χ² / ndf 3764 / 105
p0 2141 ± 1.507
3000
2800
2600
2400
2200
2000

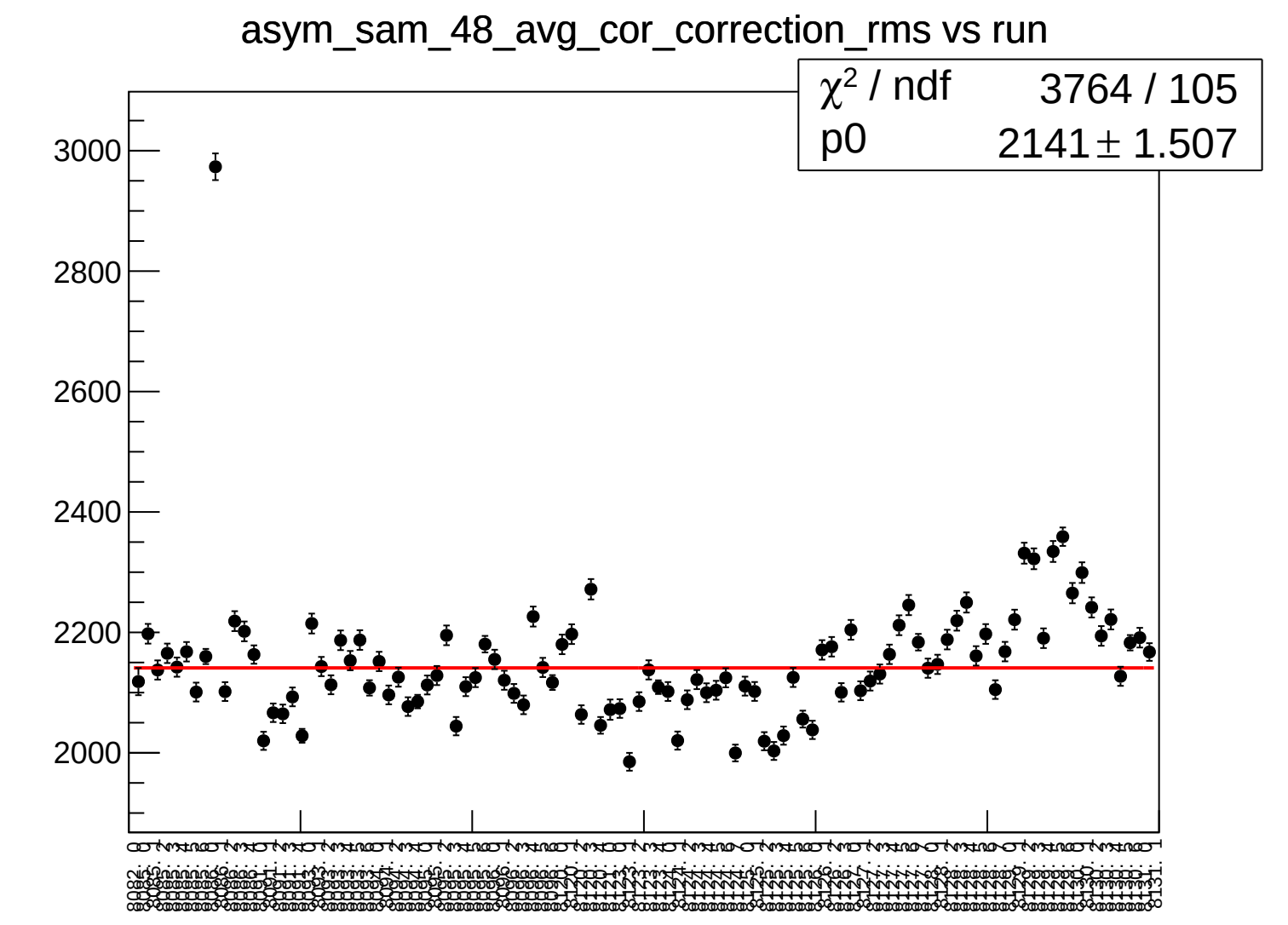

cor_asym_sam_48_avg_mean vs run
χ² / ndf 98.06 / 105
p0 39.03 ± 154.9
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 106
Mean −280.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

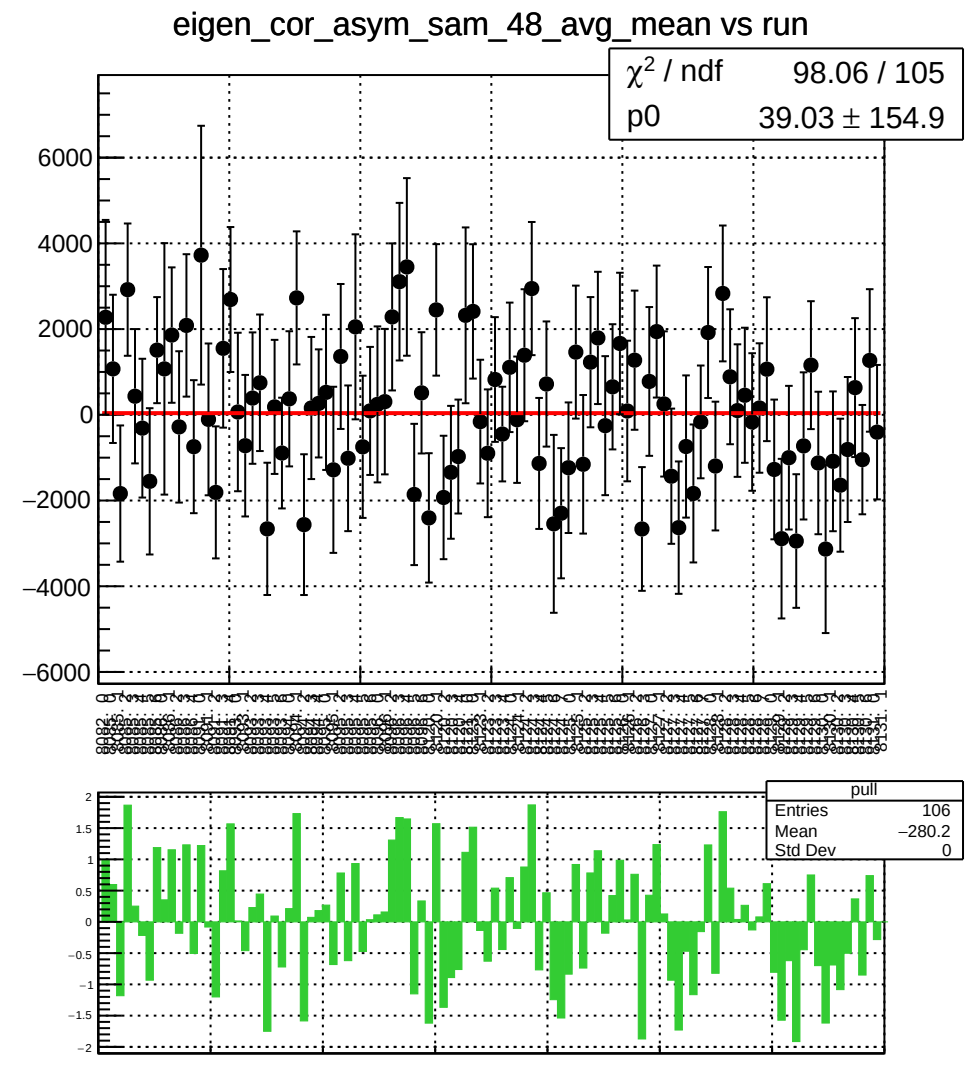

pull1D
Entries 106
Mean 0.01846
Std Dev 0.9617
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

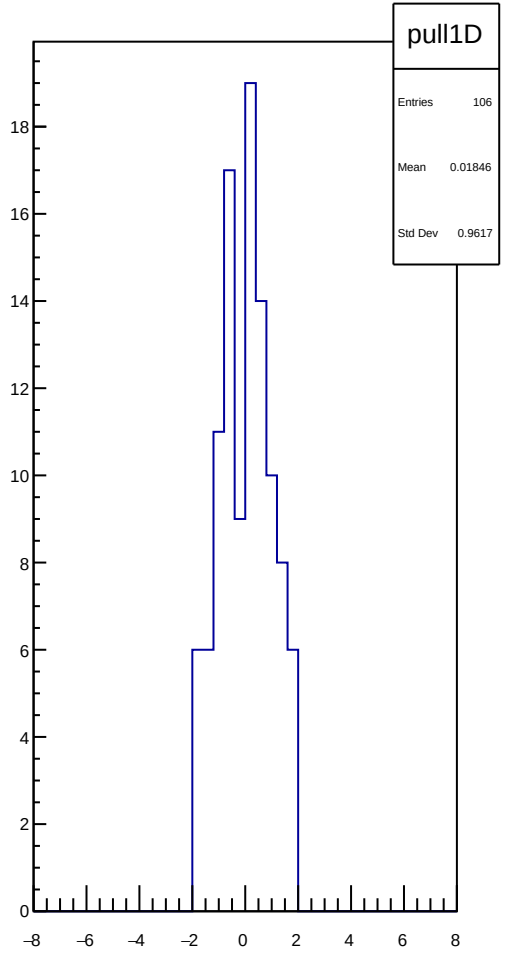

cor_asym_sam_48_avg_rms vs run
χ² / ndf 2.047e+04 / 105
p0 155 ± 0.1095
300
280
260
240
220
200
180
160
140

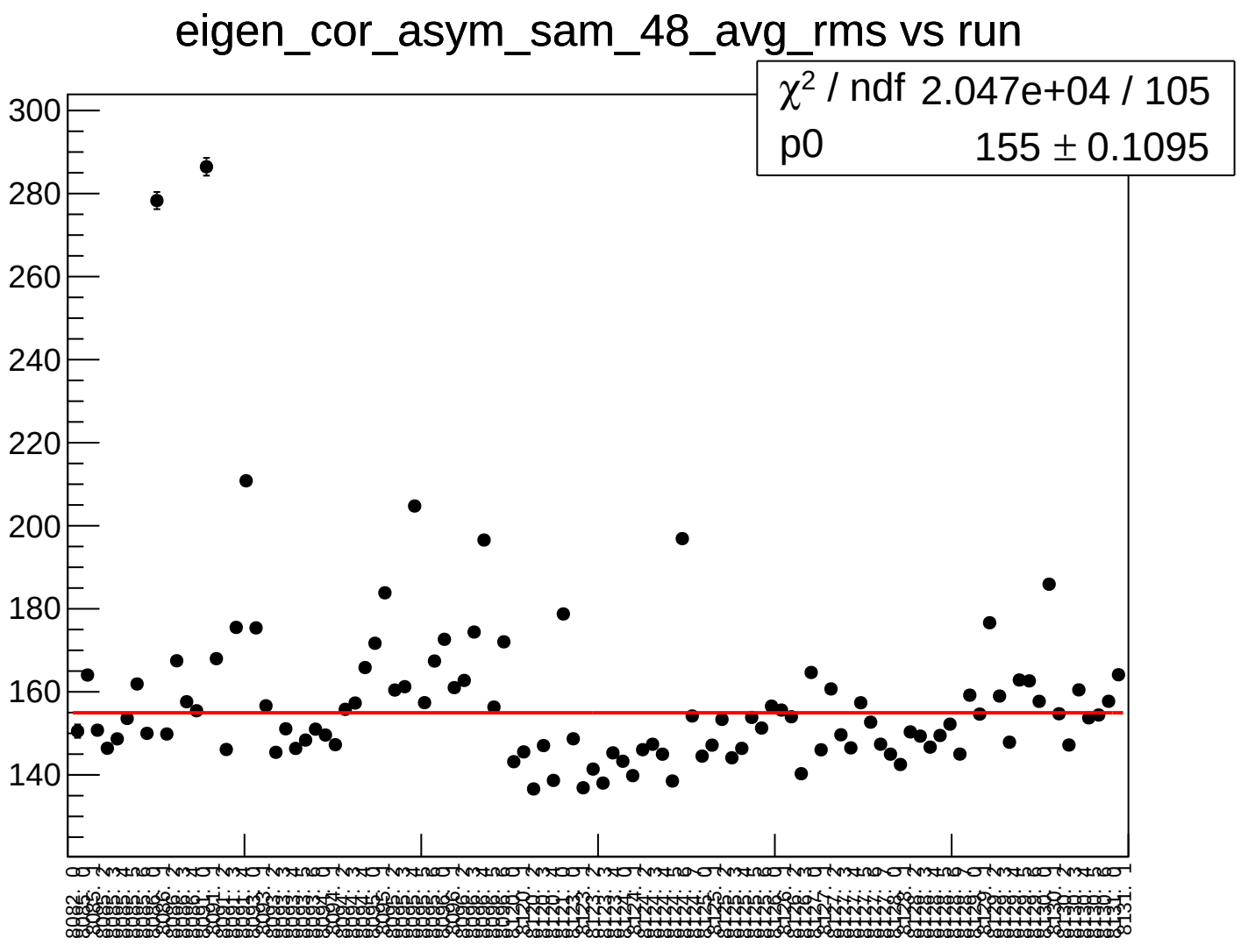

asym_sam_48_avg_cor_correction_mean vs run
χ² / ndf 69.29 / 105
p0 −2961 ± 2131
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 106
Mean 90.52
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

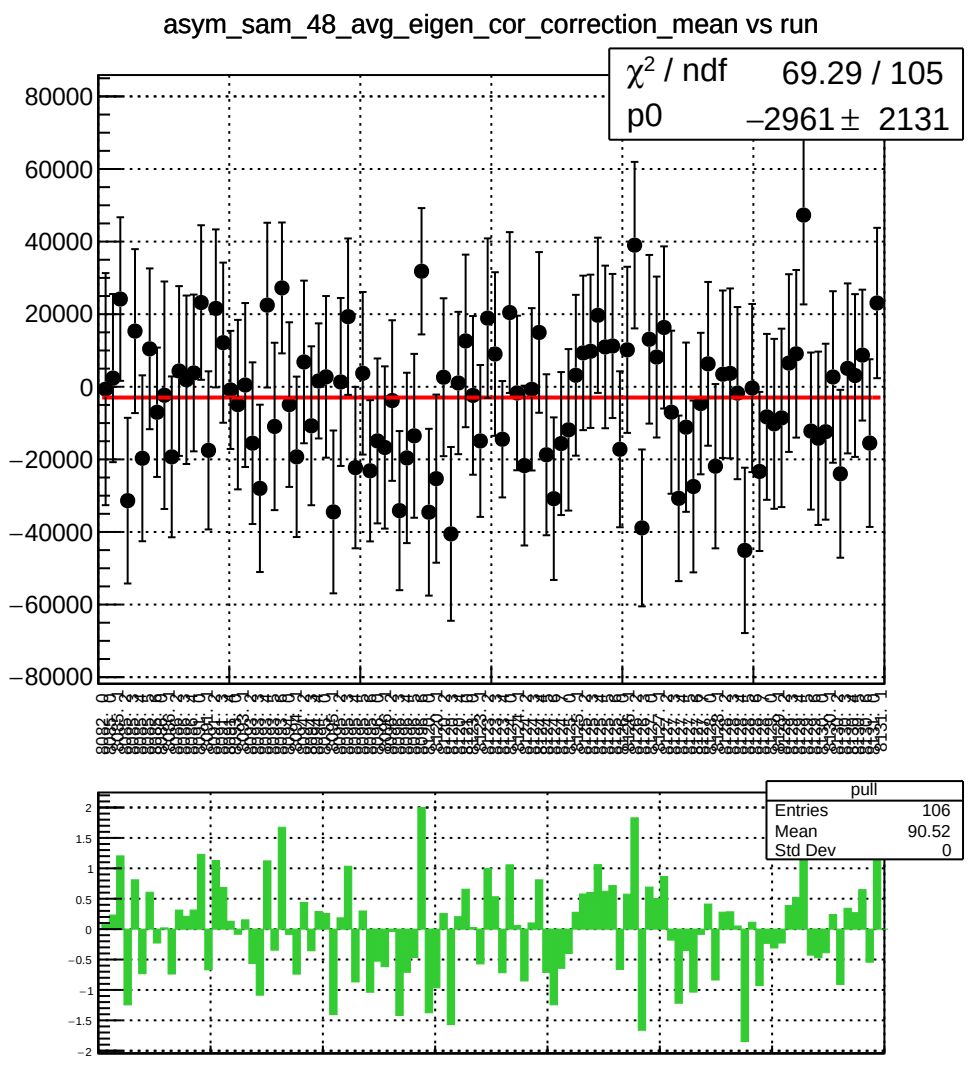

pull1D
Entries 106
Mean −0.01004
Std Dev 0.8084
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

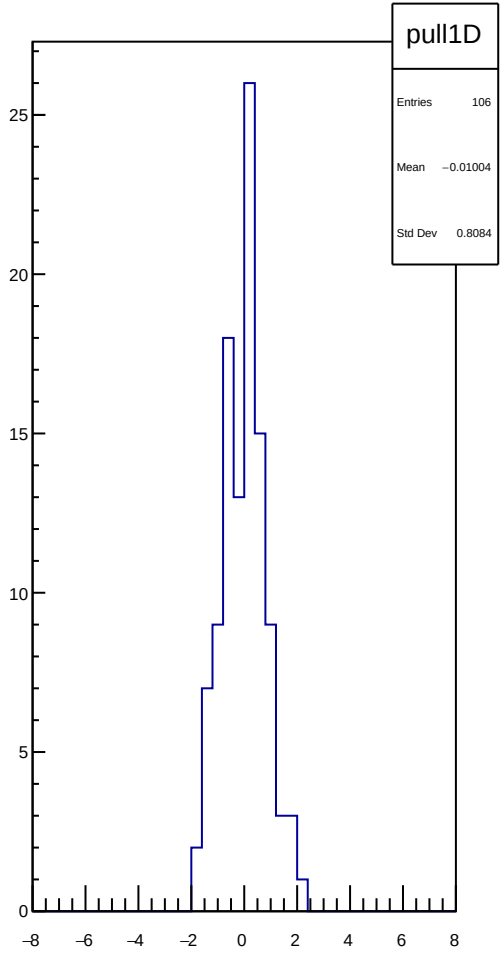

asym_sam_48_avg_cor_correction_rms vs run
χ² / ndf 3764 / 105
p0 2141 ± 1.507
3000
2800
2600
2400
2200
2000

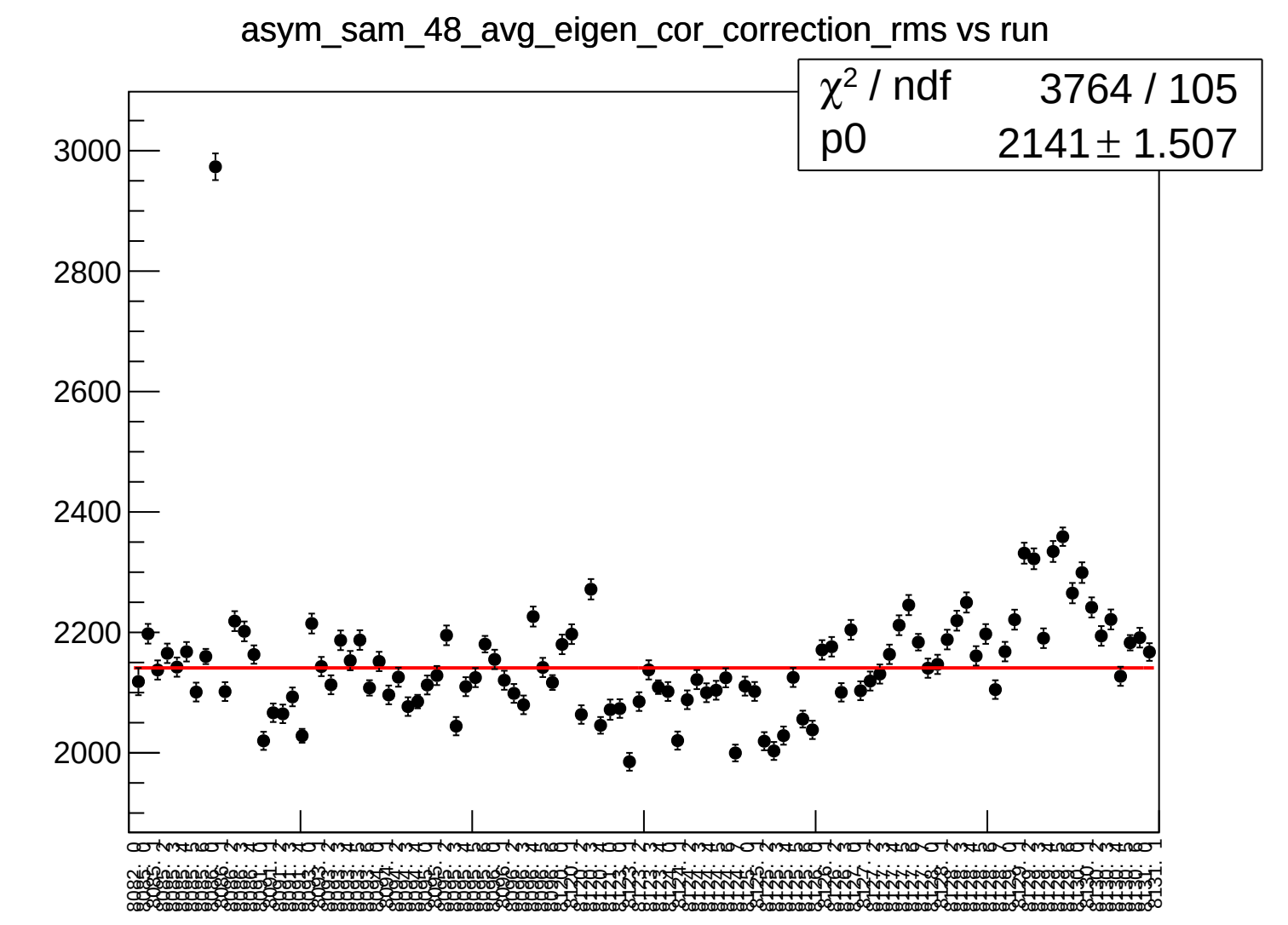

eigen_cor_asym_sam_48_avg_mean vs run
χ² / ndf 98.06 / 105
p0 39.03 ± 154.9
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 106
Mean −280.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

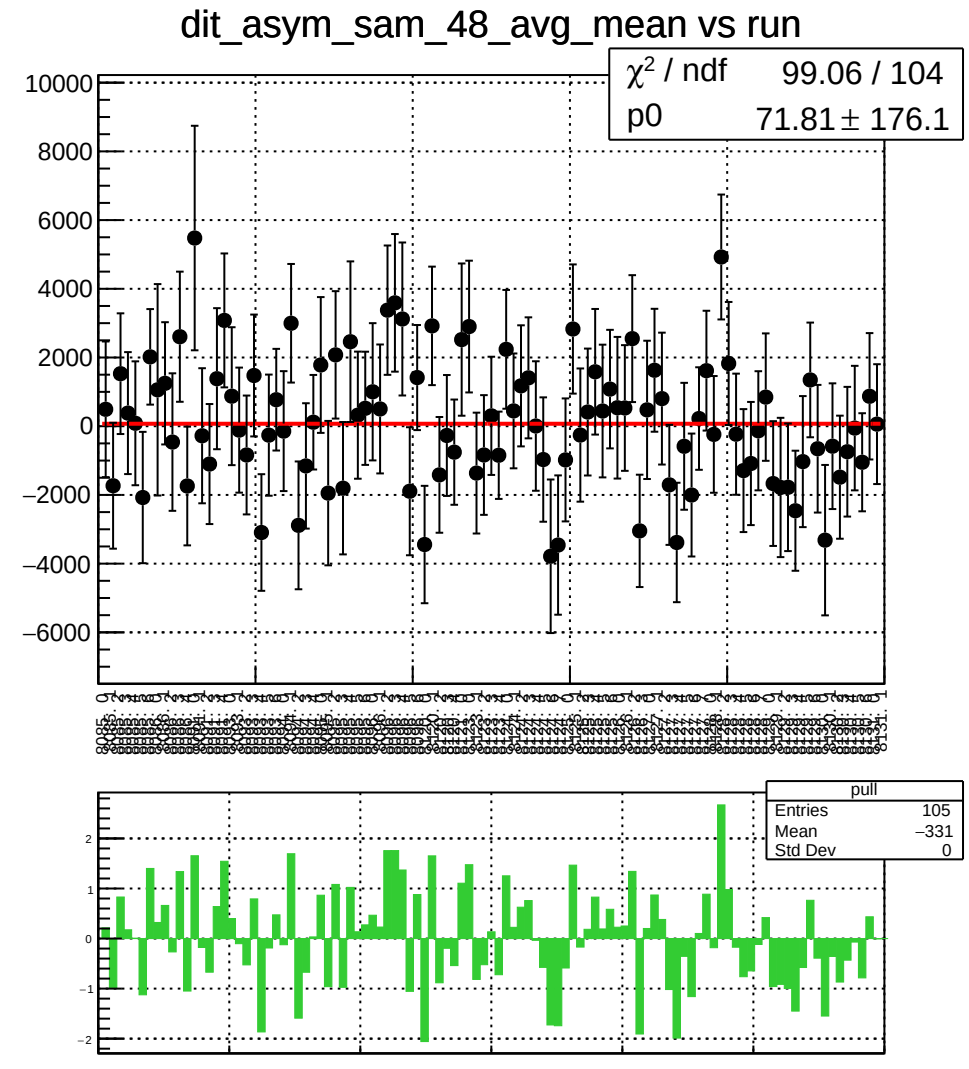

pull1D
Entries 106
Mean 0.01846
Std Dev 0.9617
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

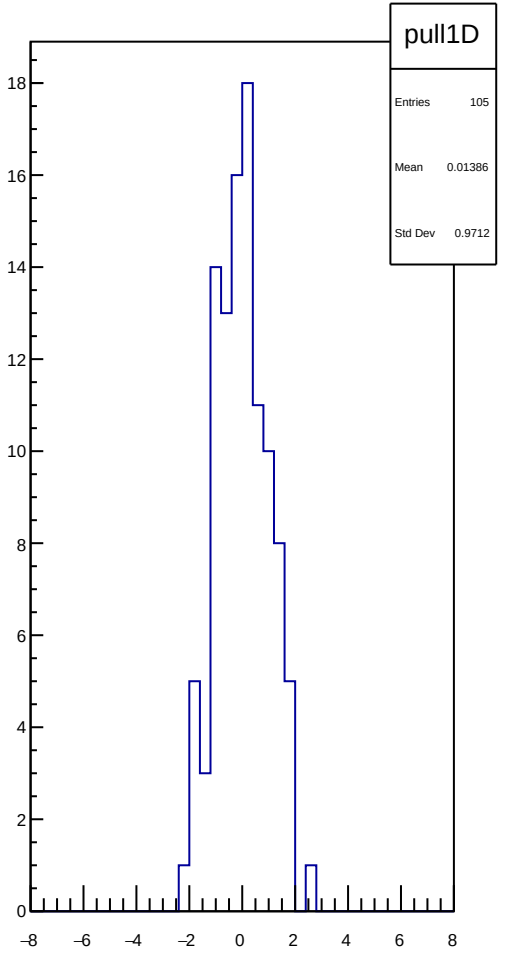

eigen_cor_asym_sam_48_avg_rms vs run
χ² / ndf 2.047e+04 / 105
p0 155 ± 0.1095
300
280
260
240
220
200
180
160
140

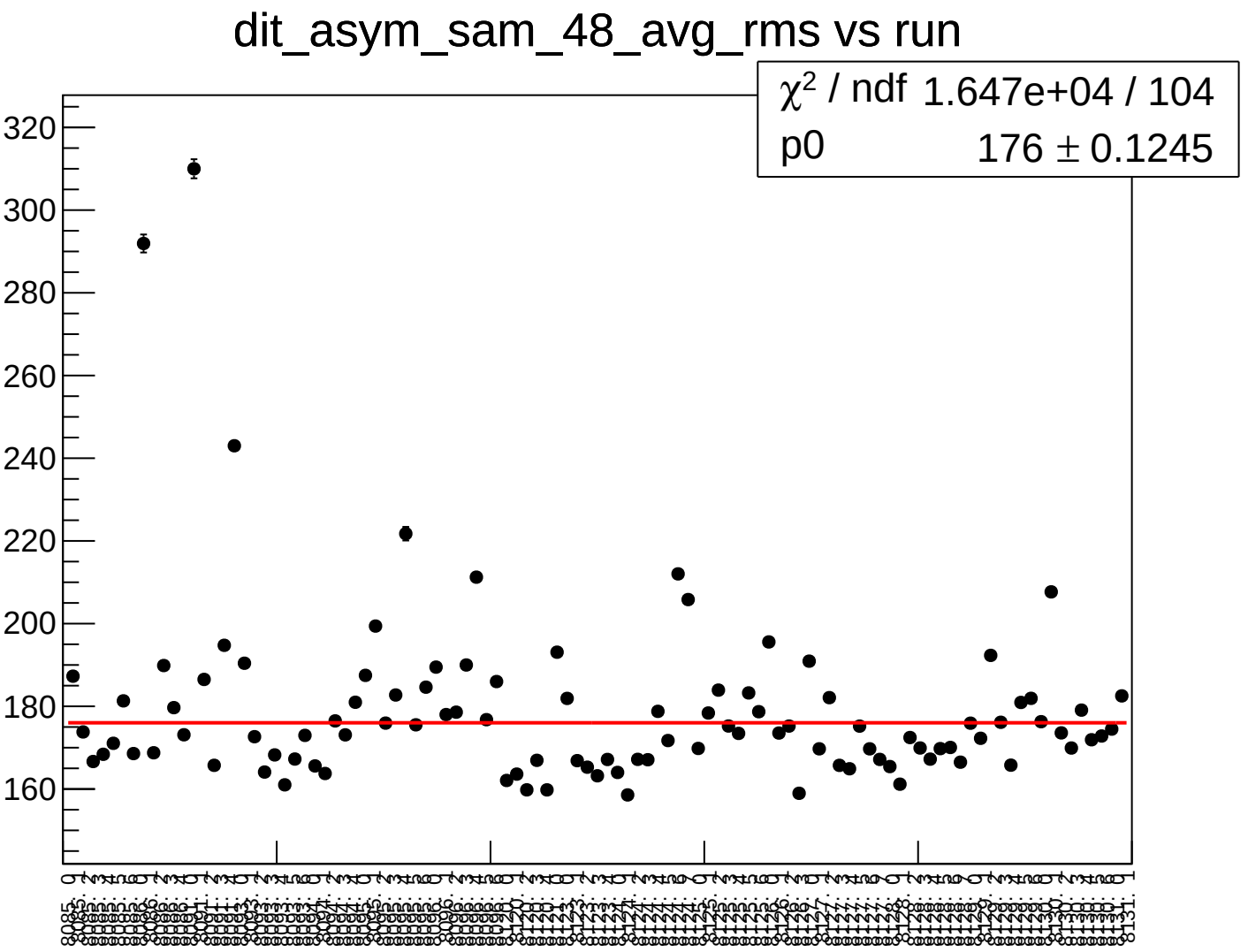

asym_sam_48_avg_eigen_cor_correction_mean vs run
χ² / ndf 69.29 / 105
p0 −2961 ± 2131
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 106
Mean 90.52
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

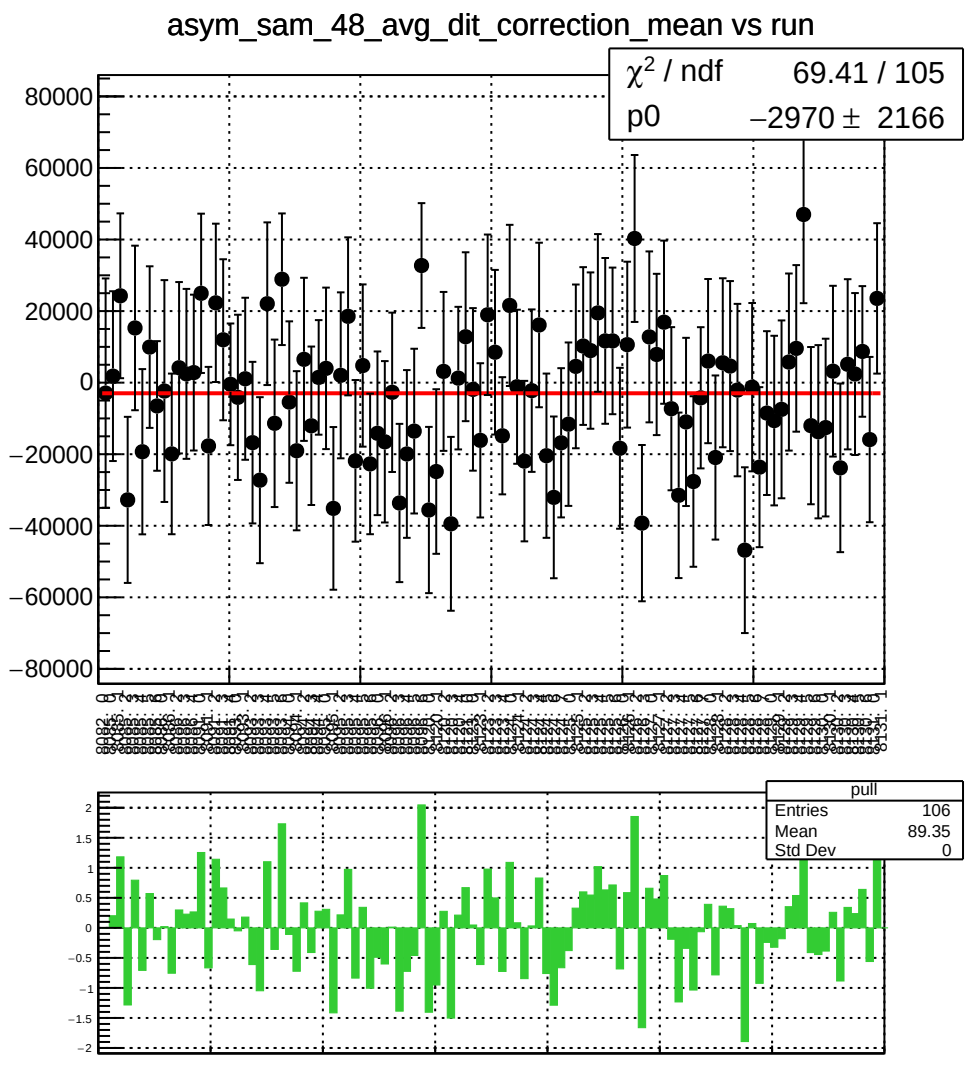

pull1D
Entries 106
Mean −0.01004
Std Dev 0.8084
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

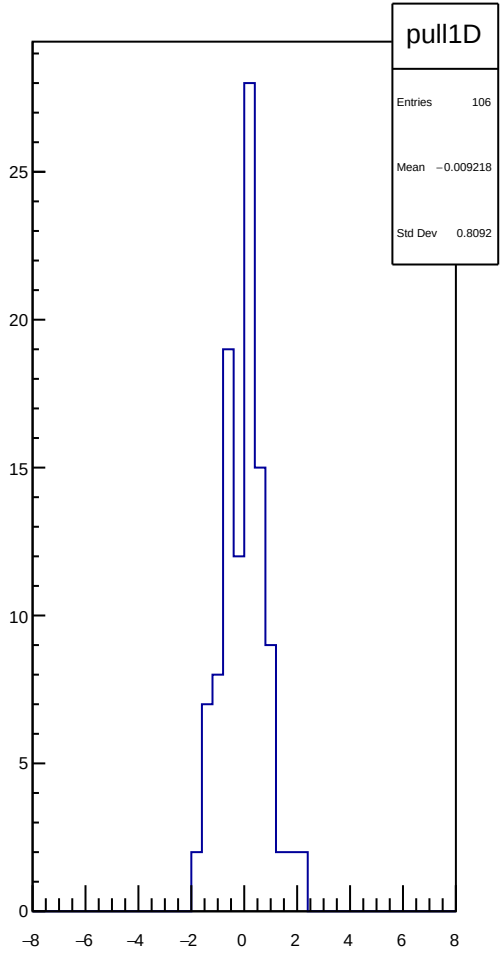

asym_sam_48_avg_eigen_cor_correction_rms vs run
χ² / ndf 3764 / 105
p0 2141 ± 1.507
3000
2800
2600
2400
2200
2000

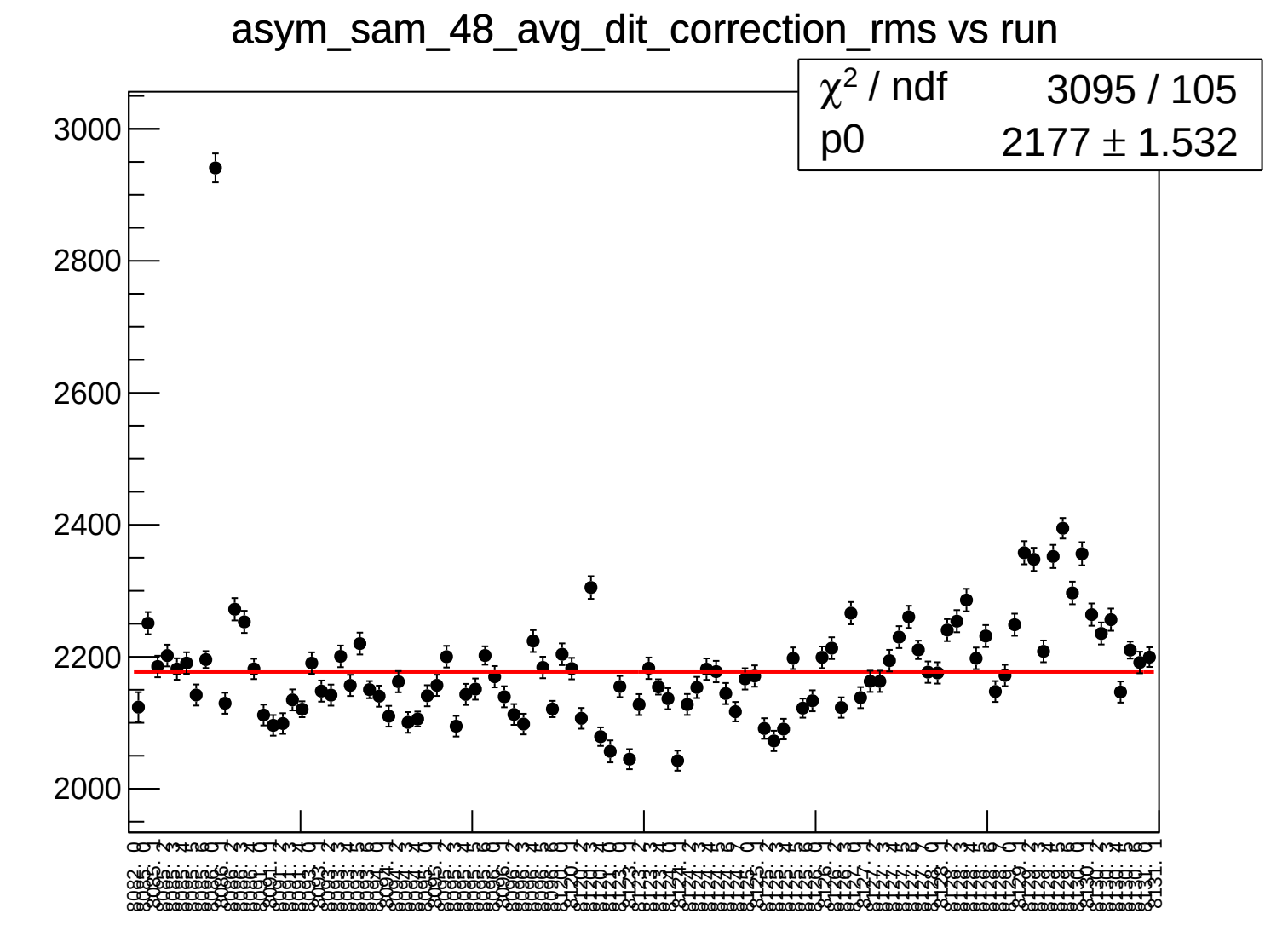

dit_asym_sam_48_avg_mean vs run
χ² / ndf 99.06 / 104
p0 71.81 ± 176.1
pull
Entries 105
Mean −331
Std Dev 0

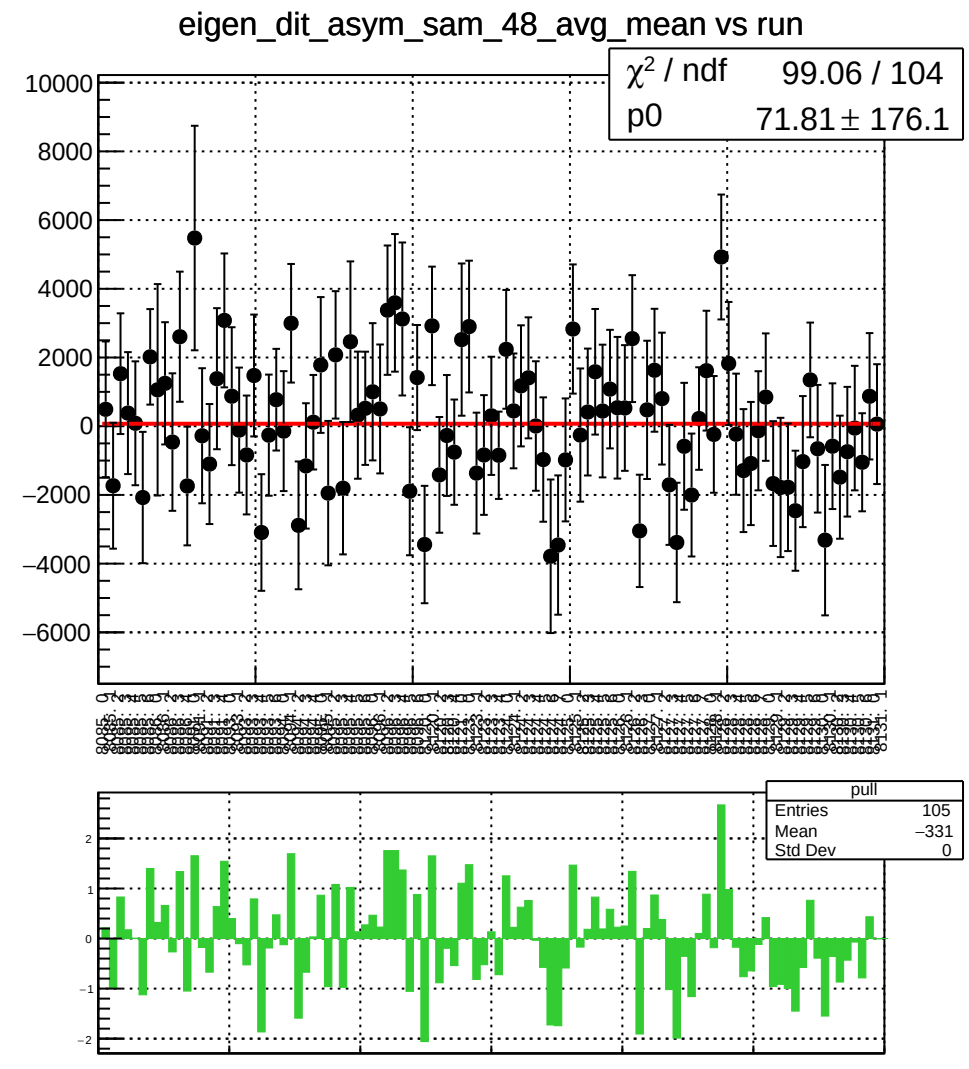

pull1D
Entries 105
Mean 0.01386
Std Dev 0.9712

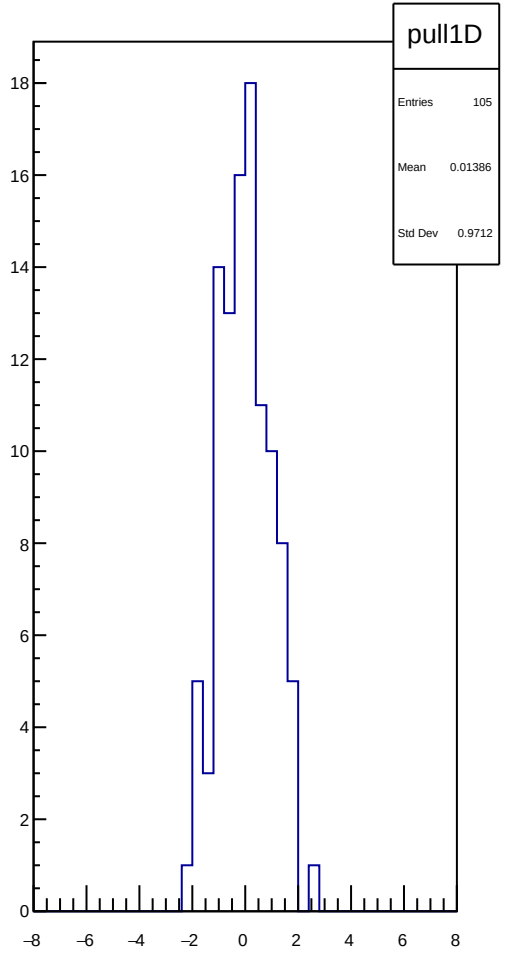

dit_asym_sam_48_avg_rms vs run
χ² / ndf 1.647e+04 / 104
p0 176 ± 0.1245
320
300
280
260
240
220
200
180
160

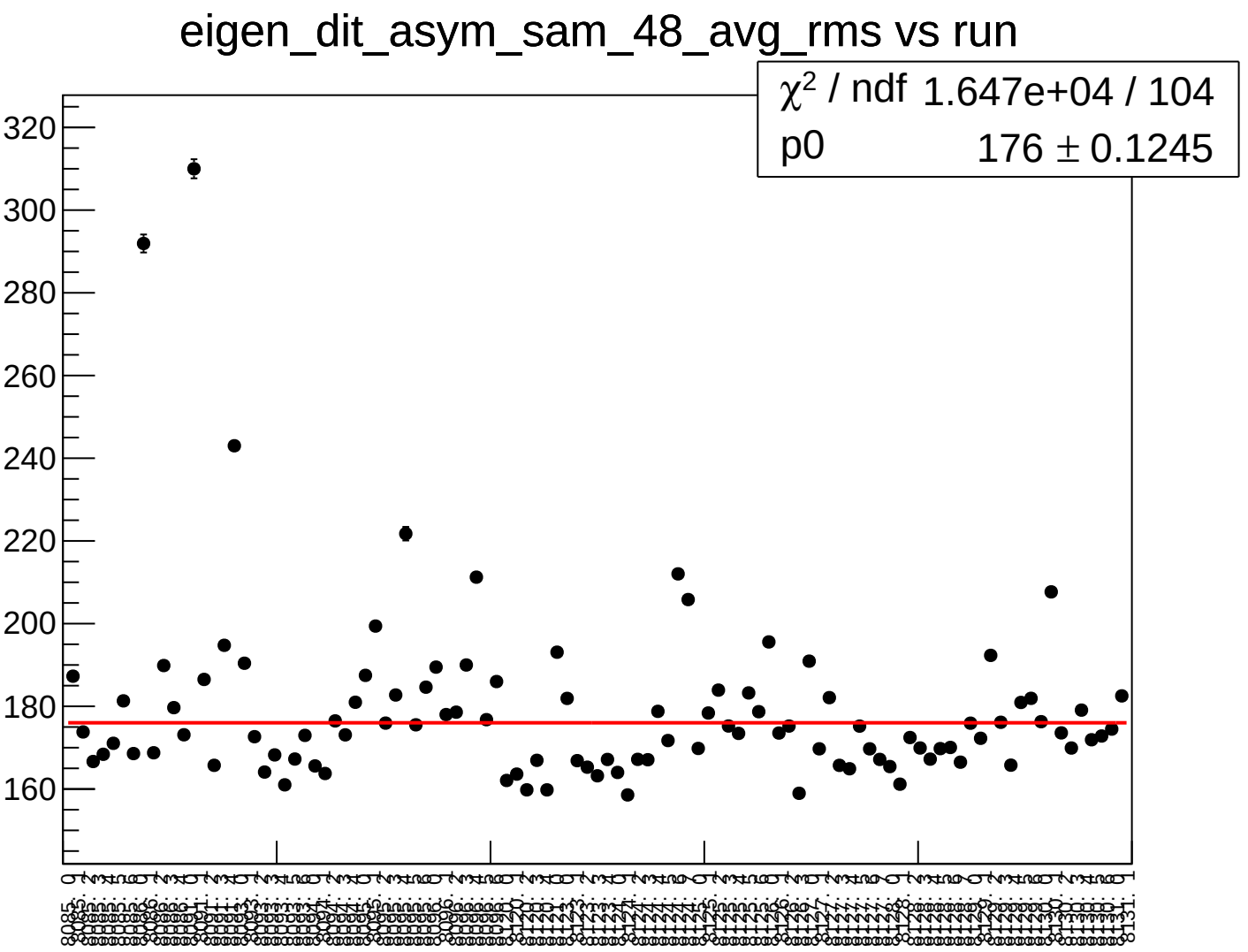

asym_sam_48_avg_dit_correction_mean vs run
χ² / ndf 69.41 / 105
p0 −2970 ± 2166
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 106
Mean 89.35
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

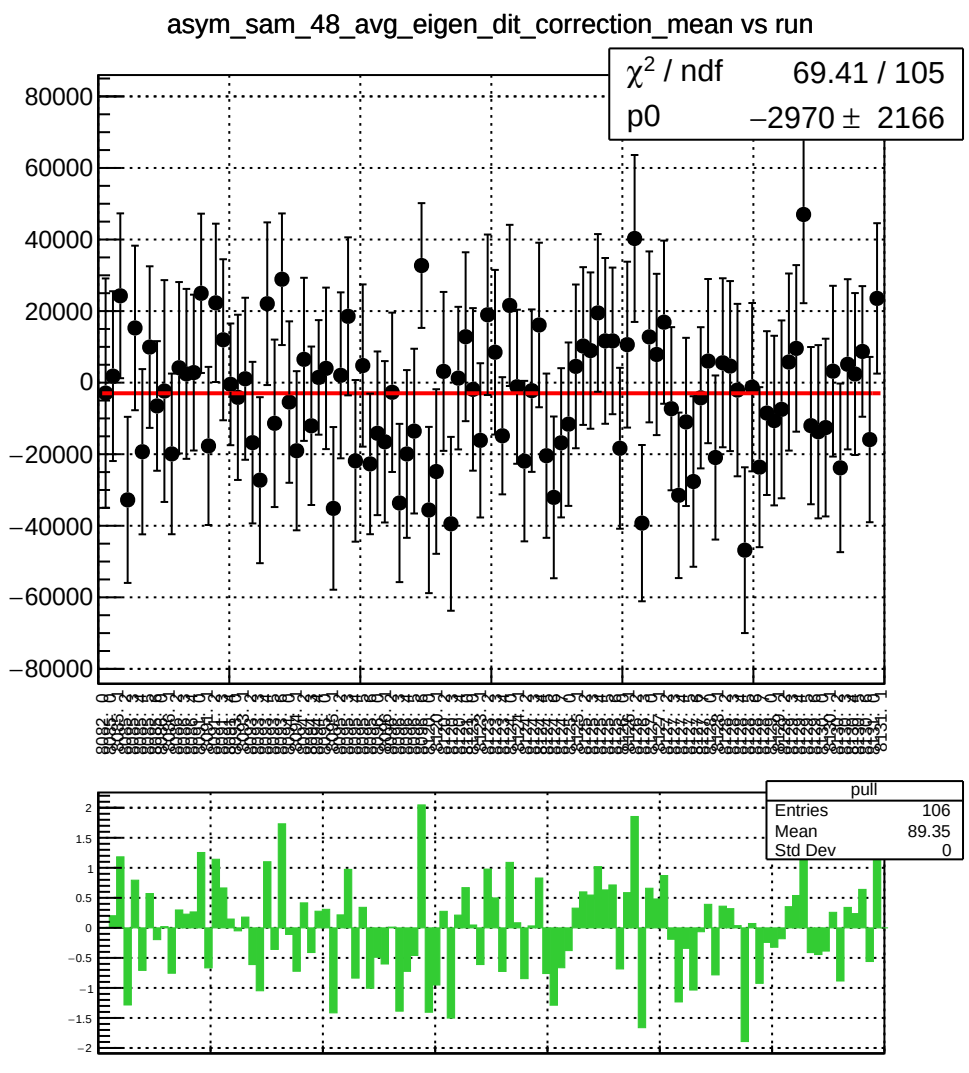

pull1D
Entries 106
Mean −0.009218
Std Dev 0.8092
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

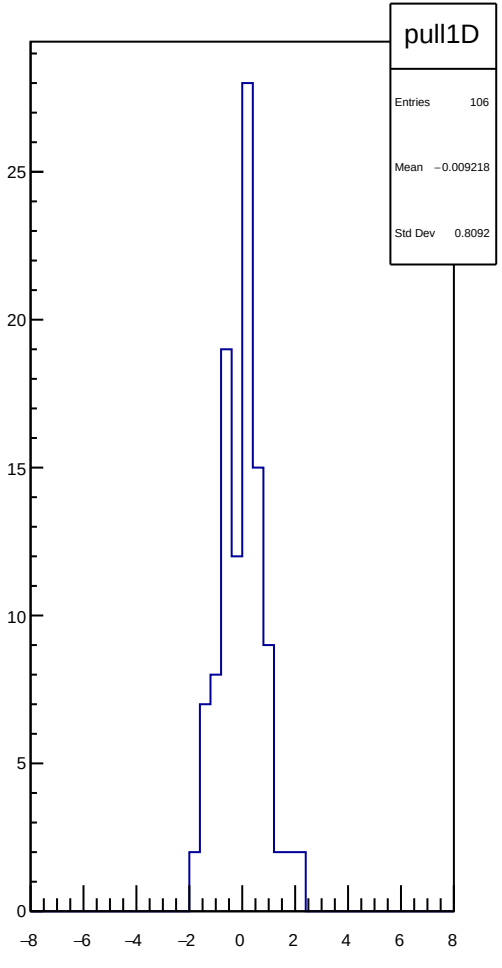

asym_sam_48_avg_dit_correction_rms vs run
χ² / ndf 3095 / 105
p0 2177 ± 1.532
3000
2800
2600
2400
2200
2000

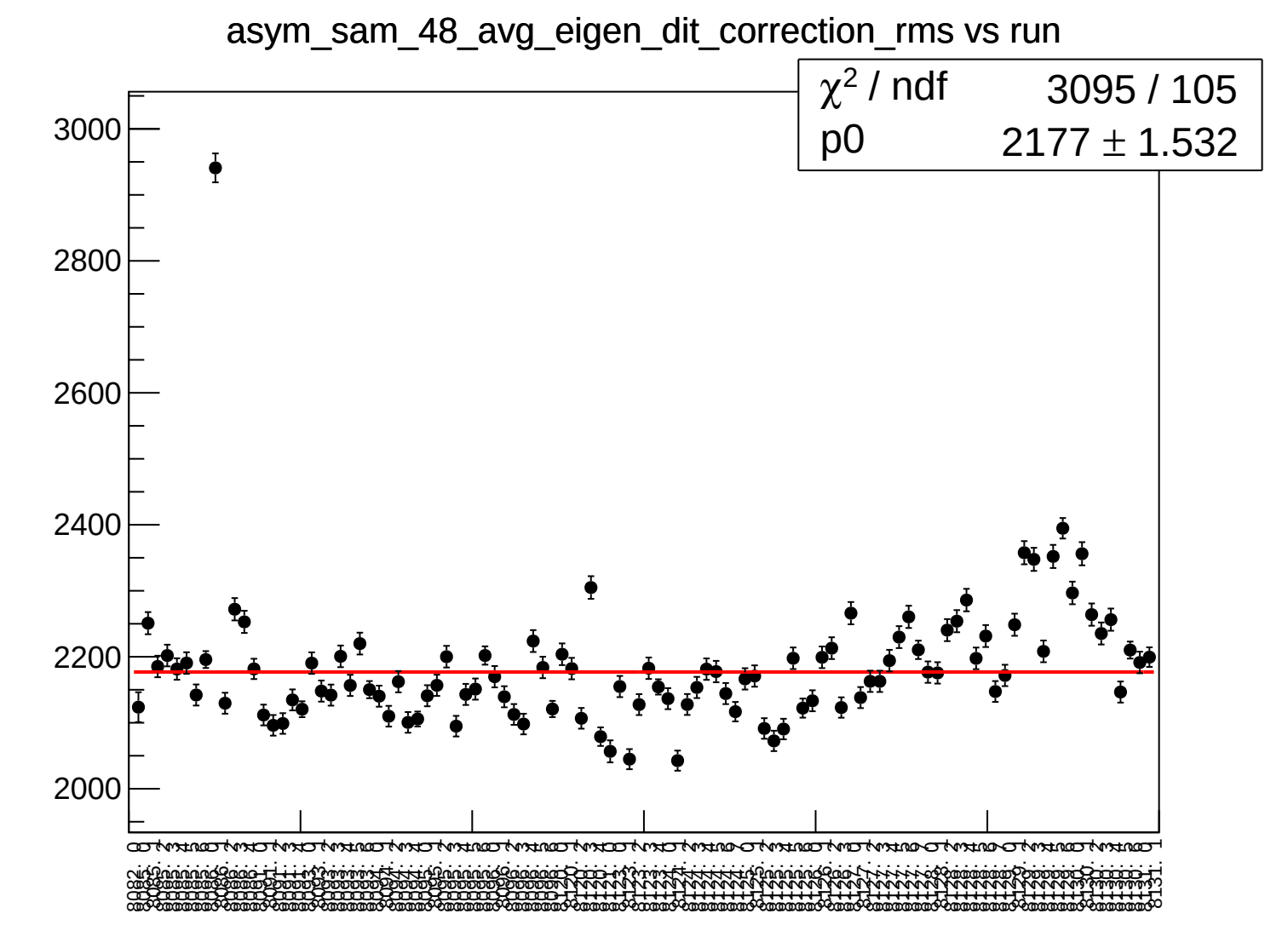

eigen_dit_asym_sam_48_avg_mean vs run
χ² / ndf 99.06 / 104
p0 71.81 ± 176.1
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 105
Mean −331
Std Dev 0
2
1
0
−1
−2

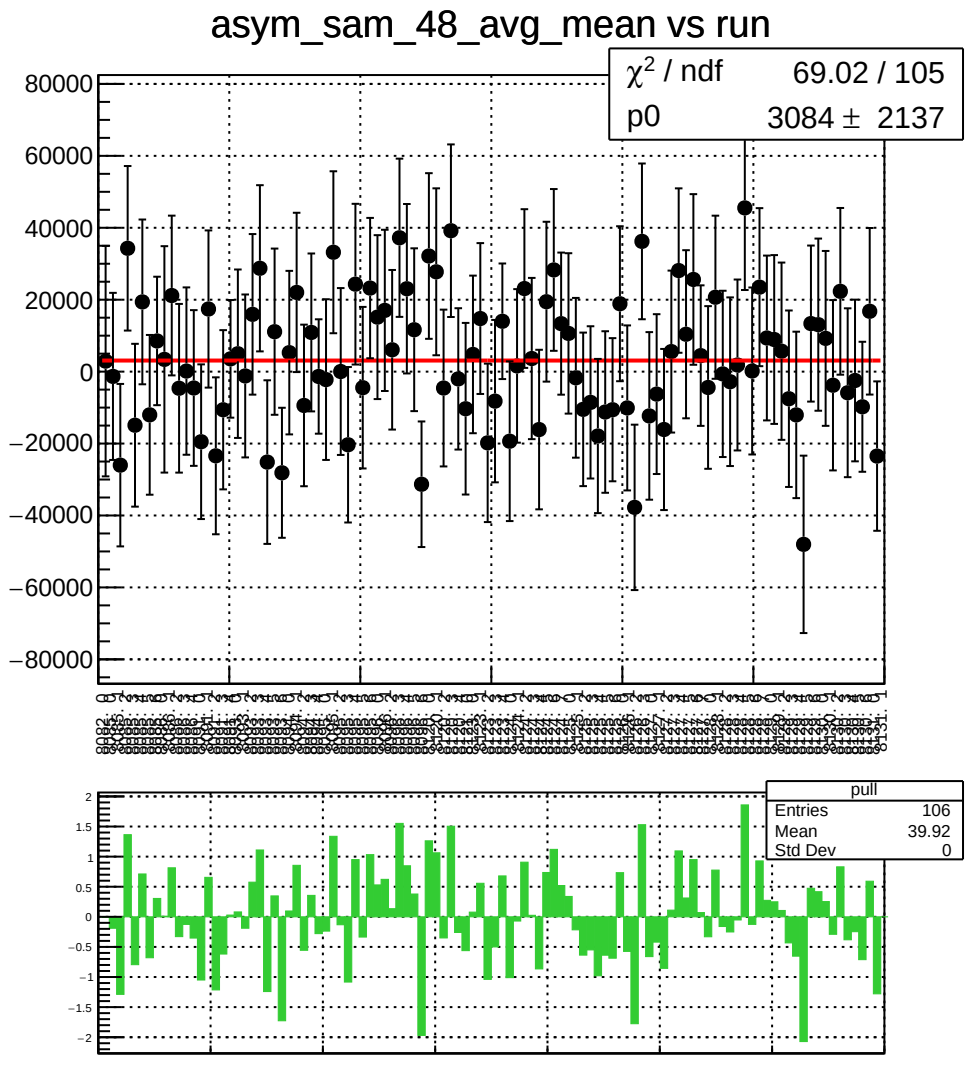

pull1D
Entries 105
Mean 0.01386
Std Dev 0.9712
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

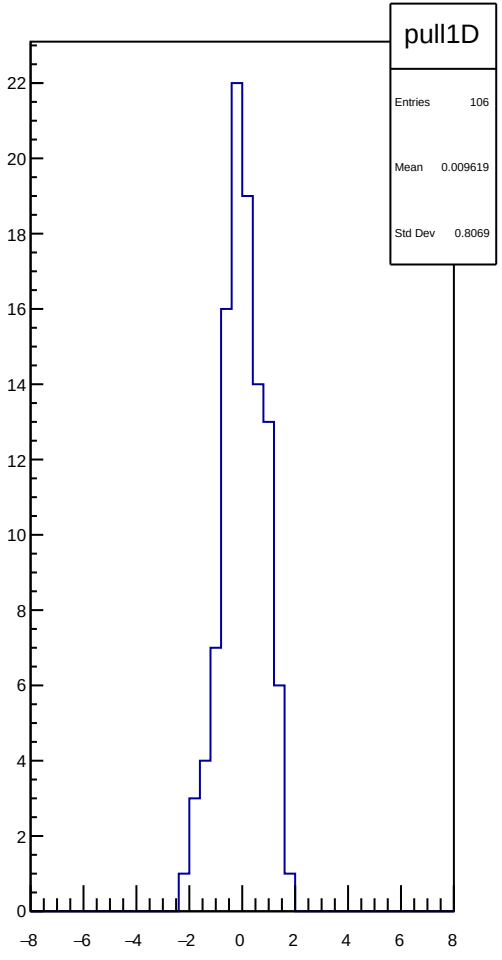

eigen_dit_asym_sam_48_avg_rms vs run
χ² / ndf 1.647e+04 / 104
p0 176 ± 0.1245
320
300
280
260
240
220
200
180
160

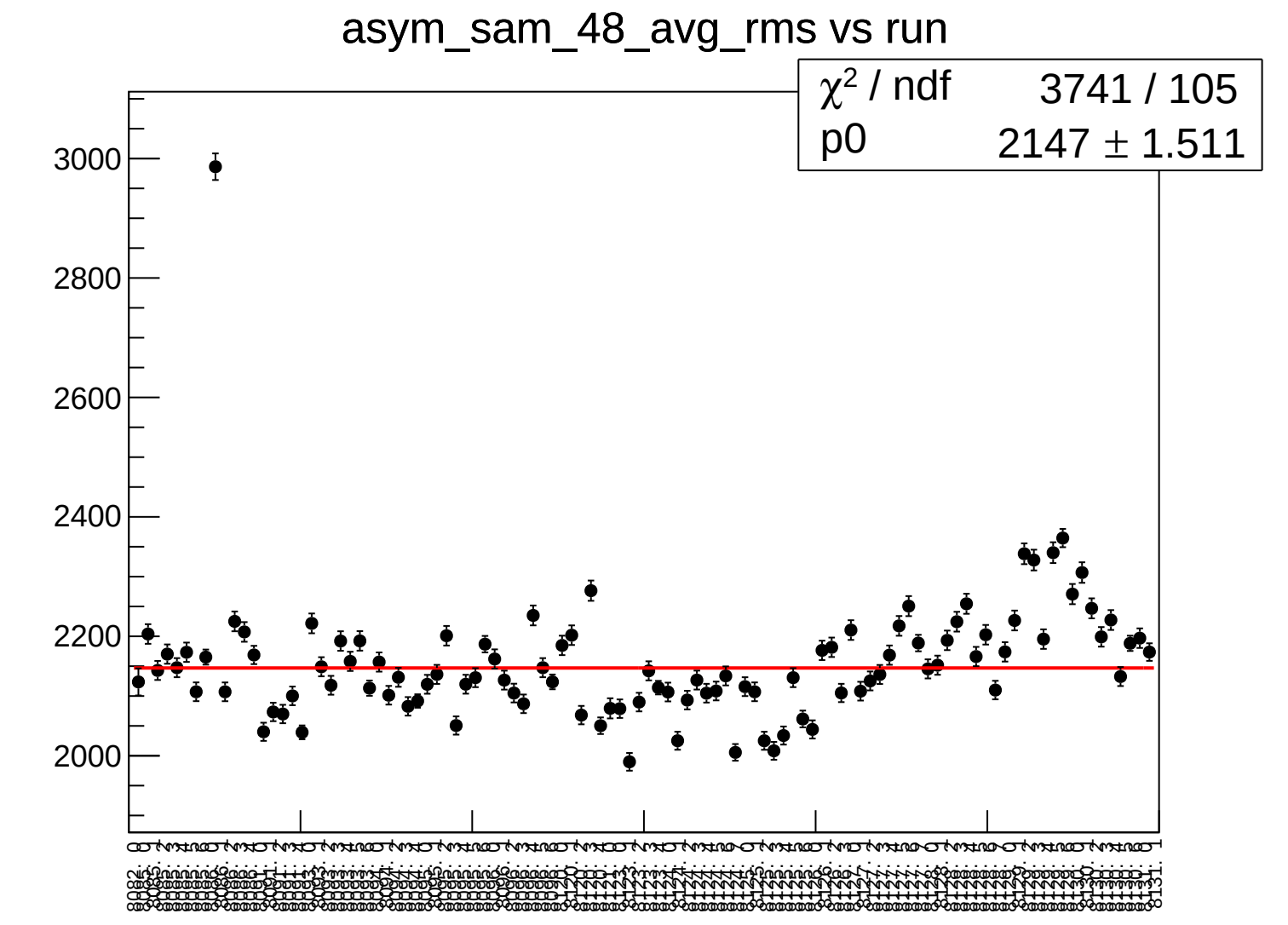

asym_sam_48_avg_eigen_dit_correction_mean vs run
χ² / ndf 69.41 / 105
p0 −2970 ± 2166
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 106
Mean 89.35
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

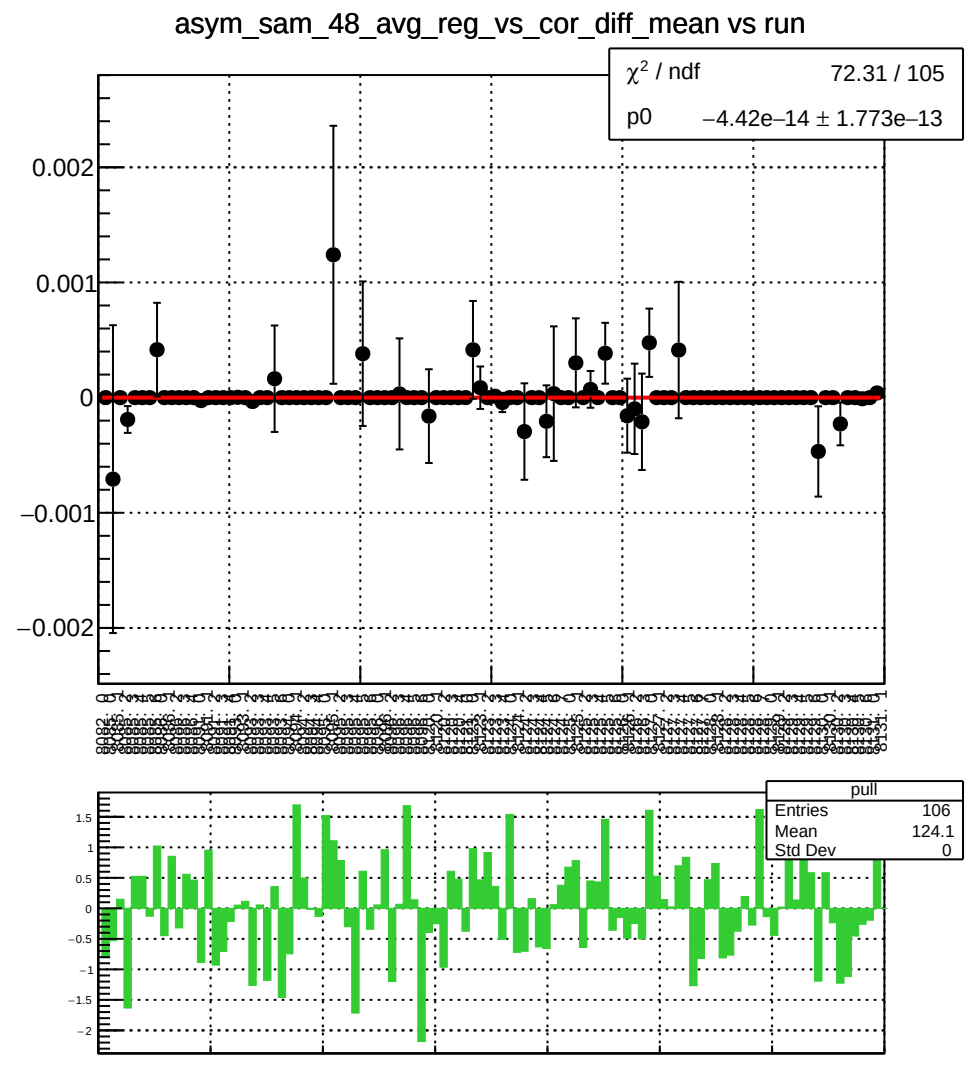

pull1D
Entries 106
Mean −0.009218
Std Dev 0.8092
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

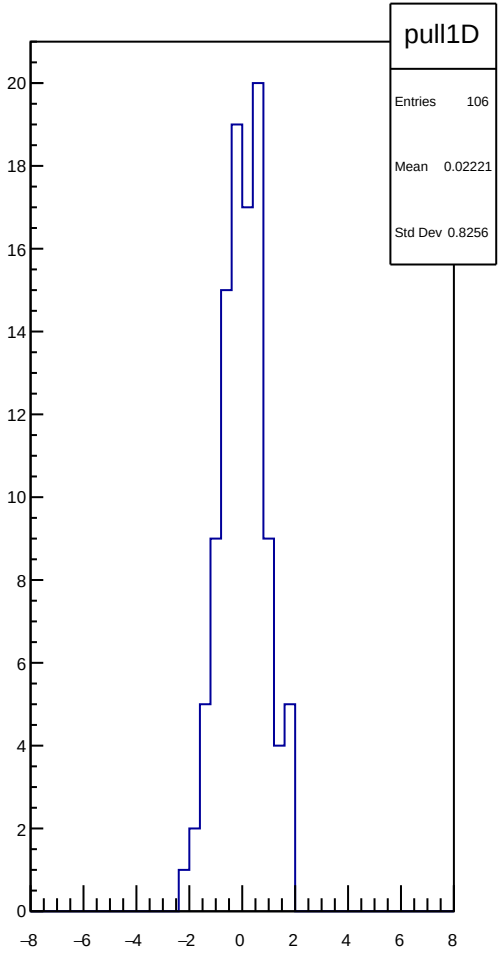

asym_sam_48_avg_eigen_dit_correction_rms vs run
χ² / ndf 3095 / 105
p0 2177 ± 1.532
3000
2800
2600
2400
2200
2000

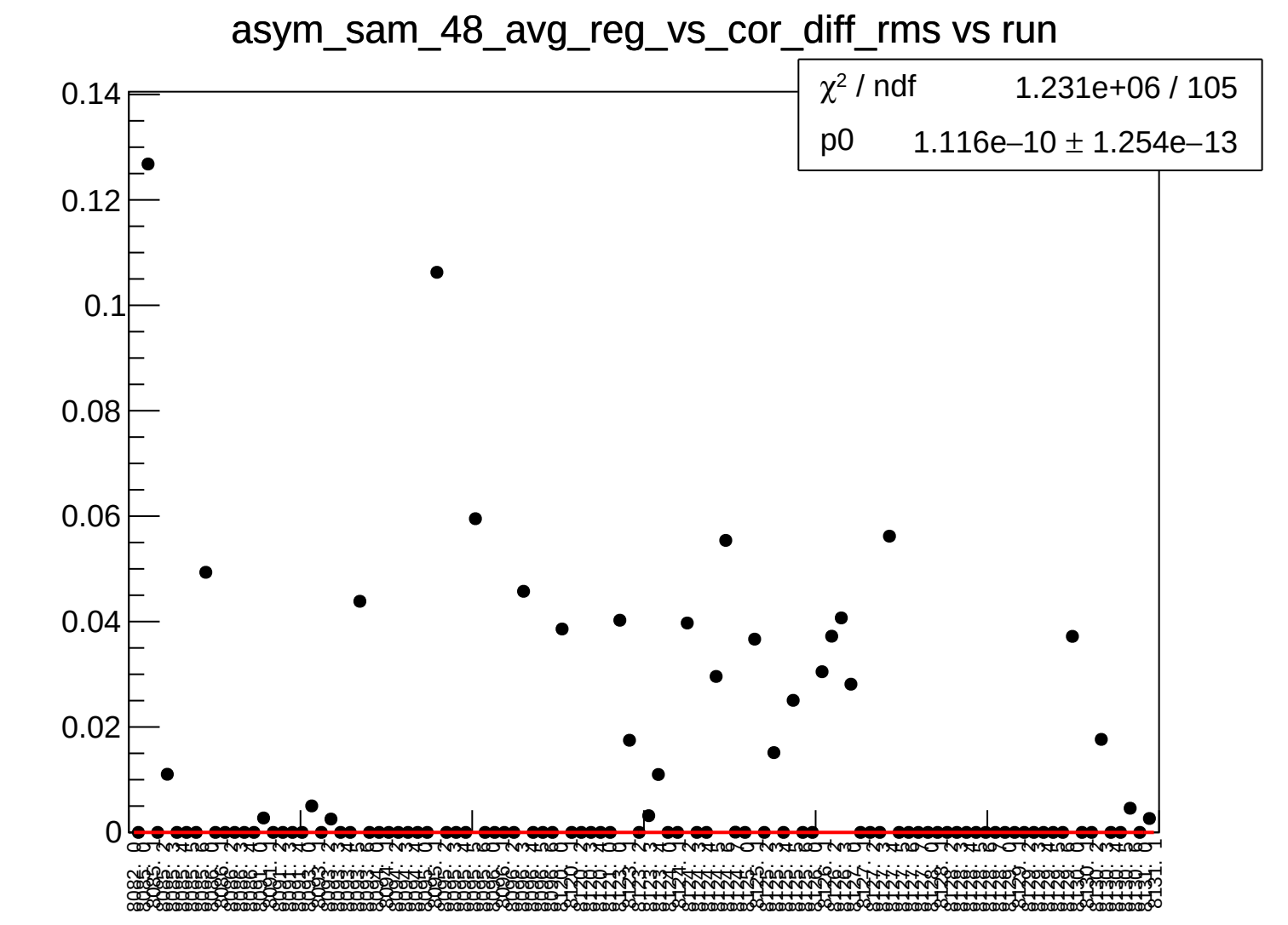

asym_sam_48_avg_mean vs run
χ² / ndf 69.02 / 105
p0 3084 ± 2137
pull
Entries 106
Mean 39.92
Std Dev 0

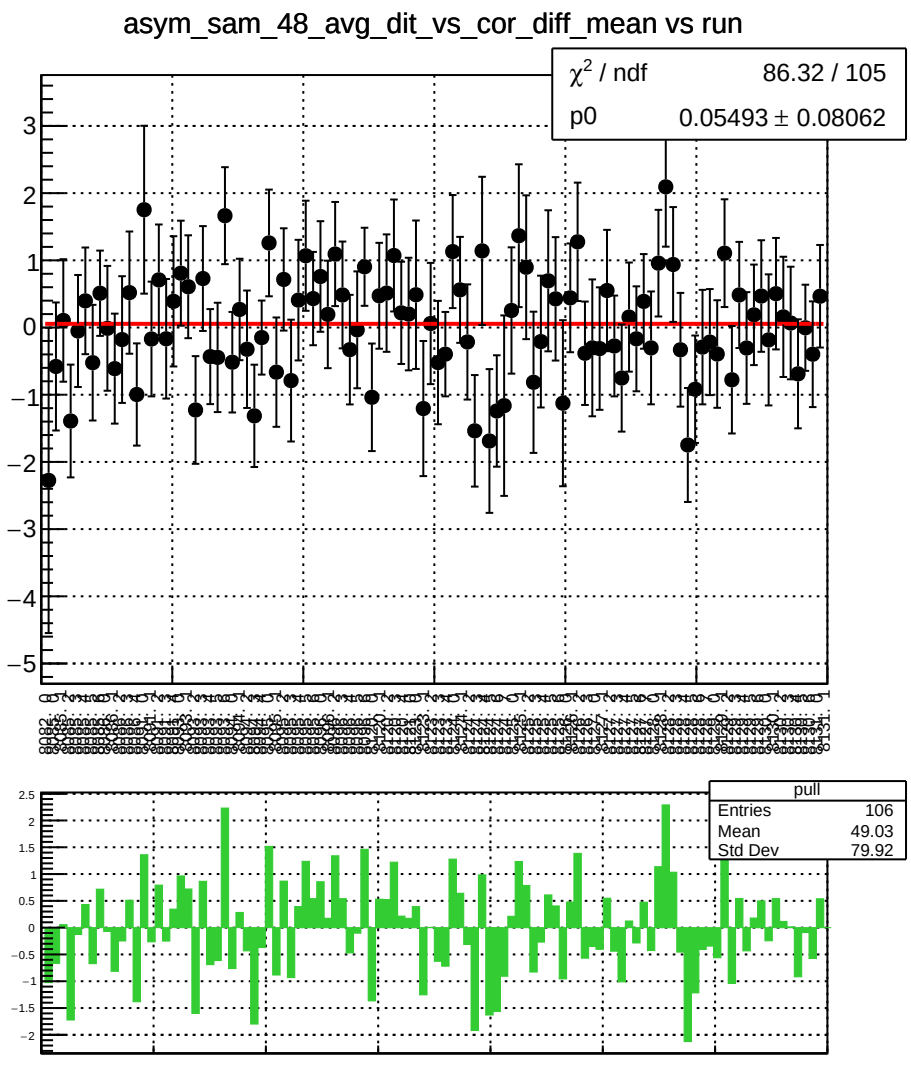

pull1D
Entries 106
Mean 0.009619
Std Dev 0.8069

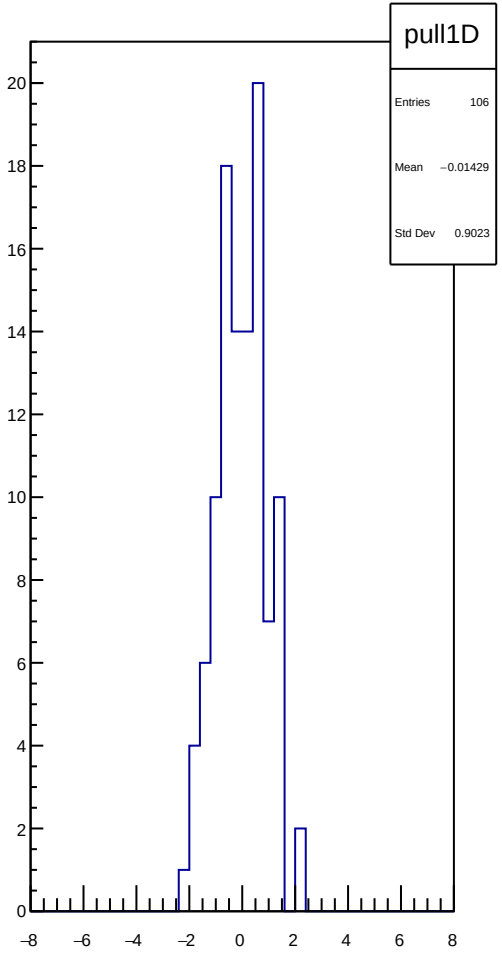

asym_sam_48_avg_rms vs run
$\chi^2$ / ndf 3741 / 105
p0 2147 ± 1.511
3000
2800
2600
2400
2200
2000

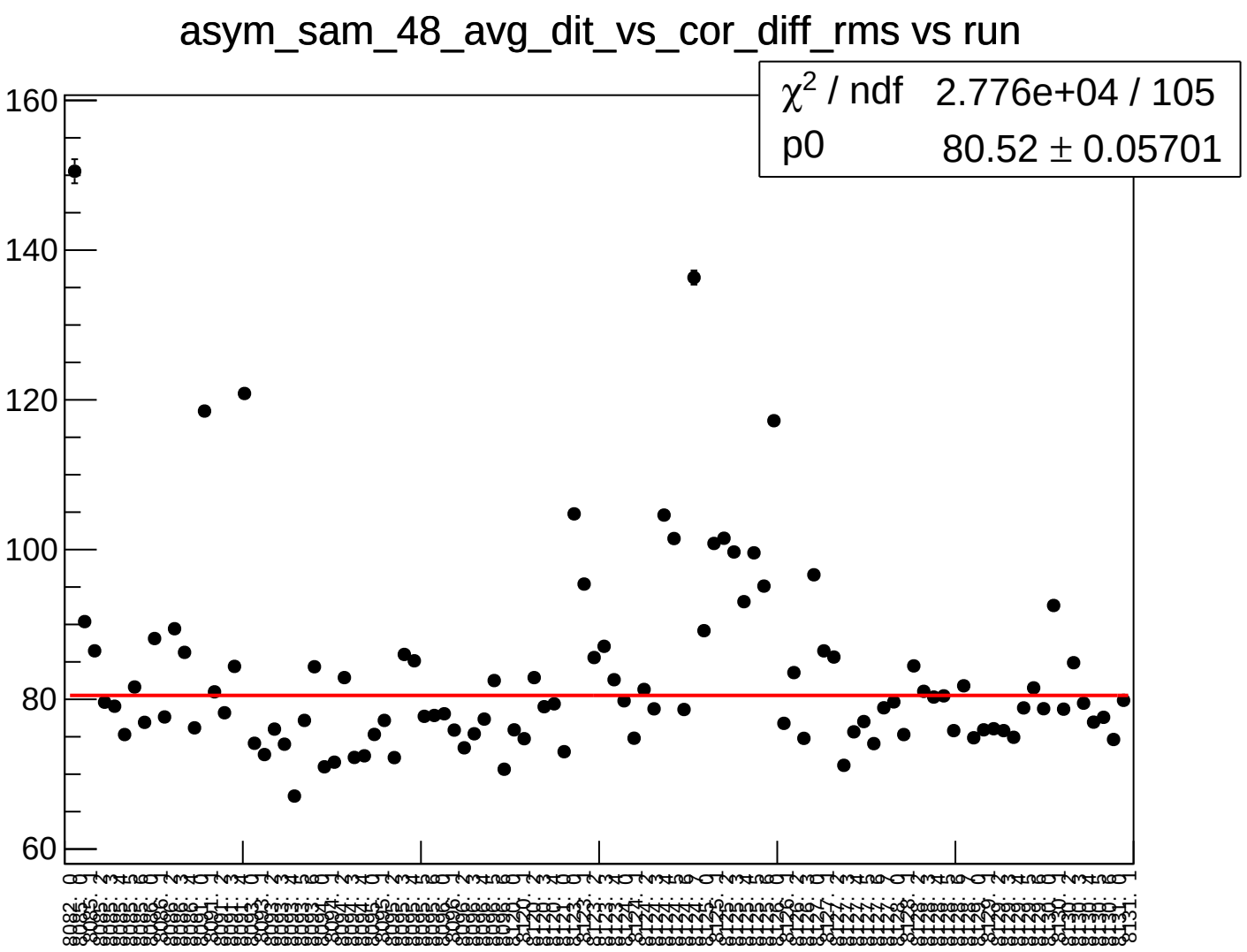

asym_sam_48_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 72.31 / 105
p0 −4.42e−14 ± 1.773e−13
0.002
0.001
0
−0.001
−0.002
pull
Entries 106
Mean 124.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

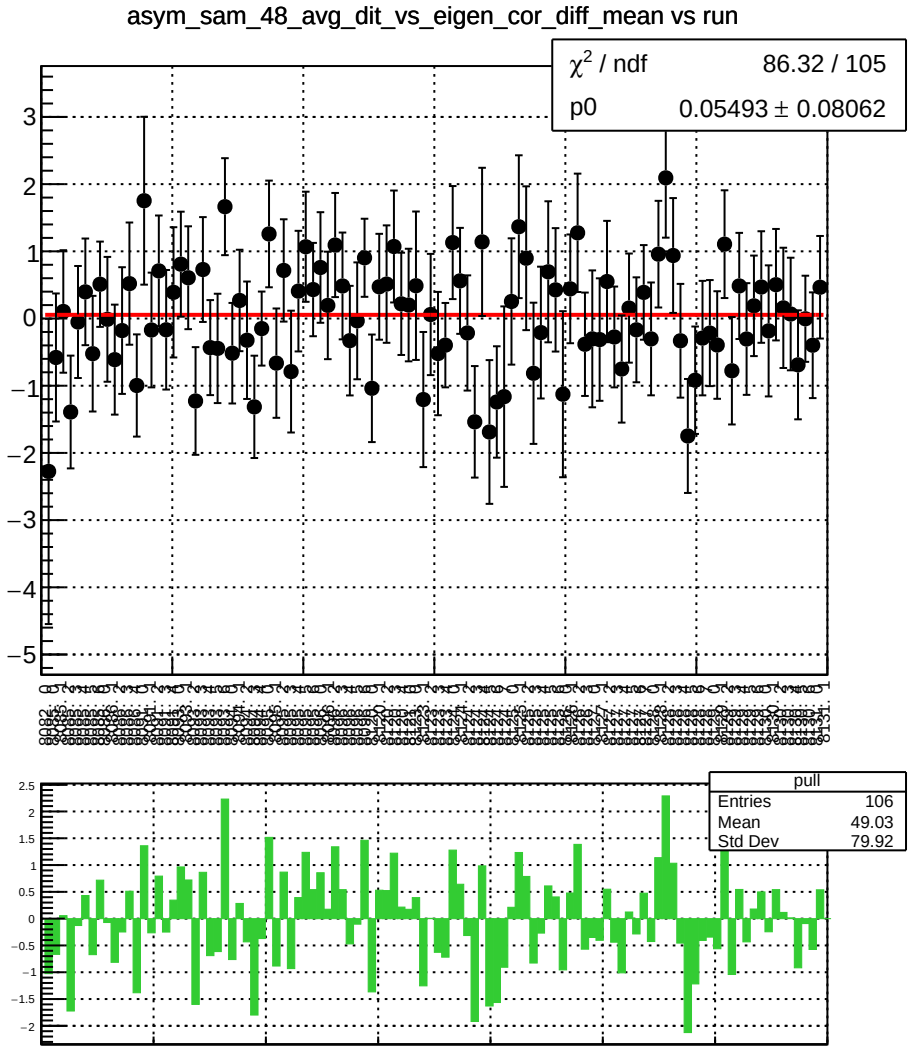

pull1D
Entries 106
Mean 0.02221
Std Dev 0.8256
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

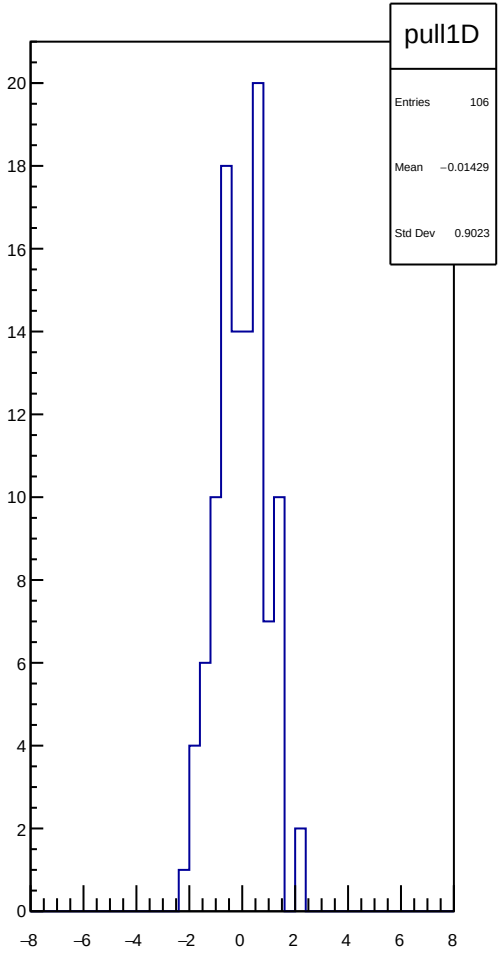

asym_sam_48_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.231e+06 / 105
p0 1.116e−10 ± 1.254e−13
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

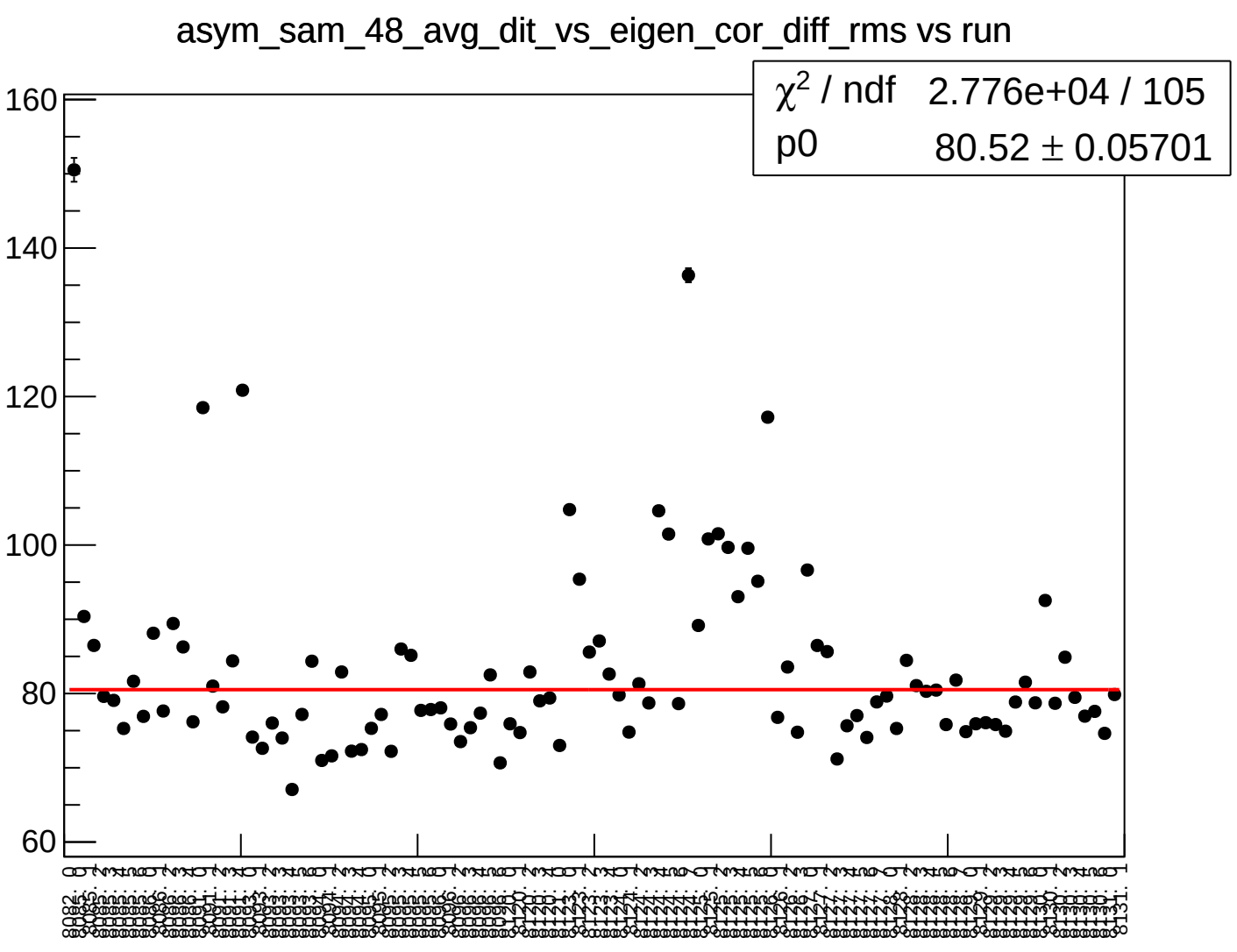

asym_sam_48_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 86.32 / 105
p0 0.05493 ± 0.08062
pull
Entries 106
Mean 49.03
Std Dev 79.92

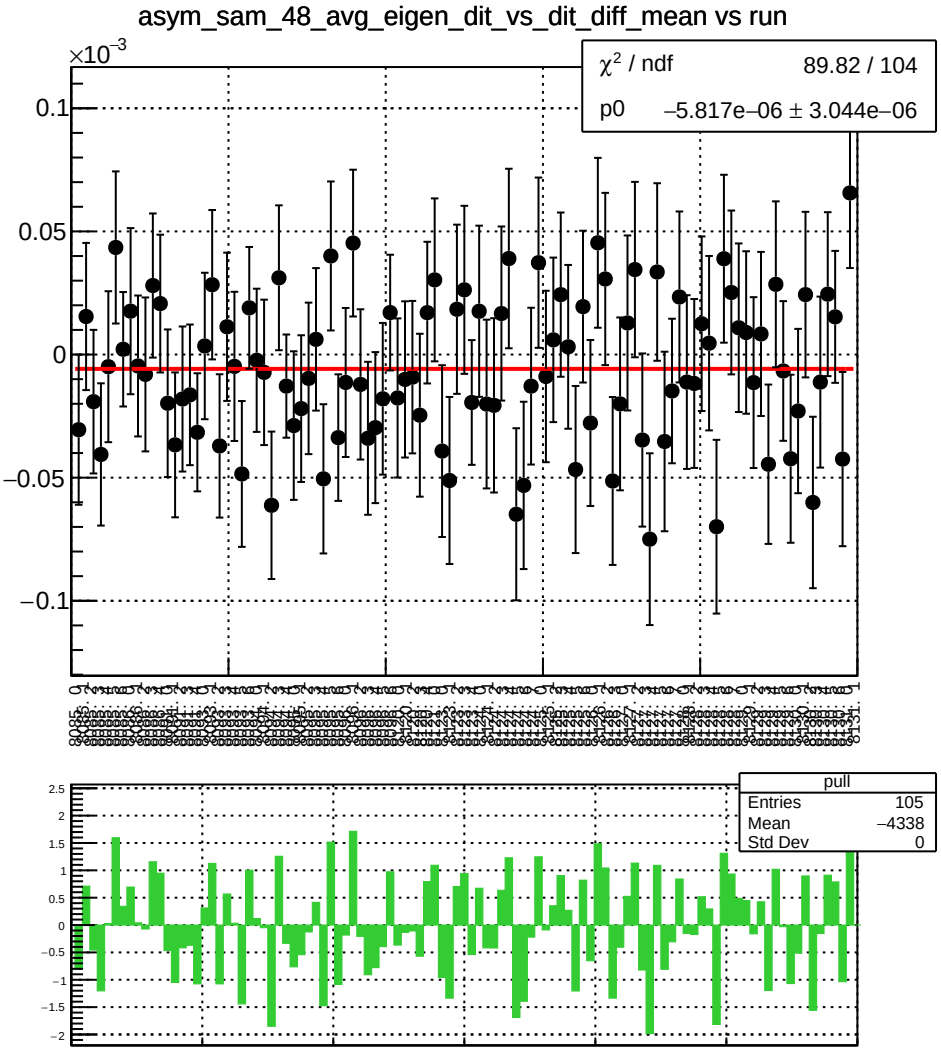

pull1D
Entries 106
Mean −0.01429
Std Dev 0.9023

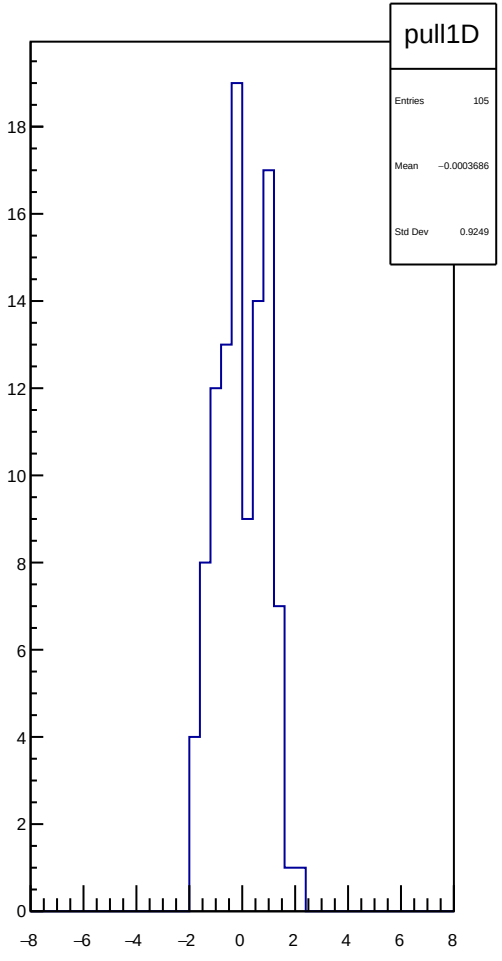

asym_sam_48_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.776e+04 / 105
p0 80.52 ± 0.05701
160
140
120
100
80
60

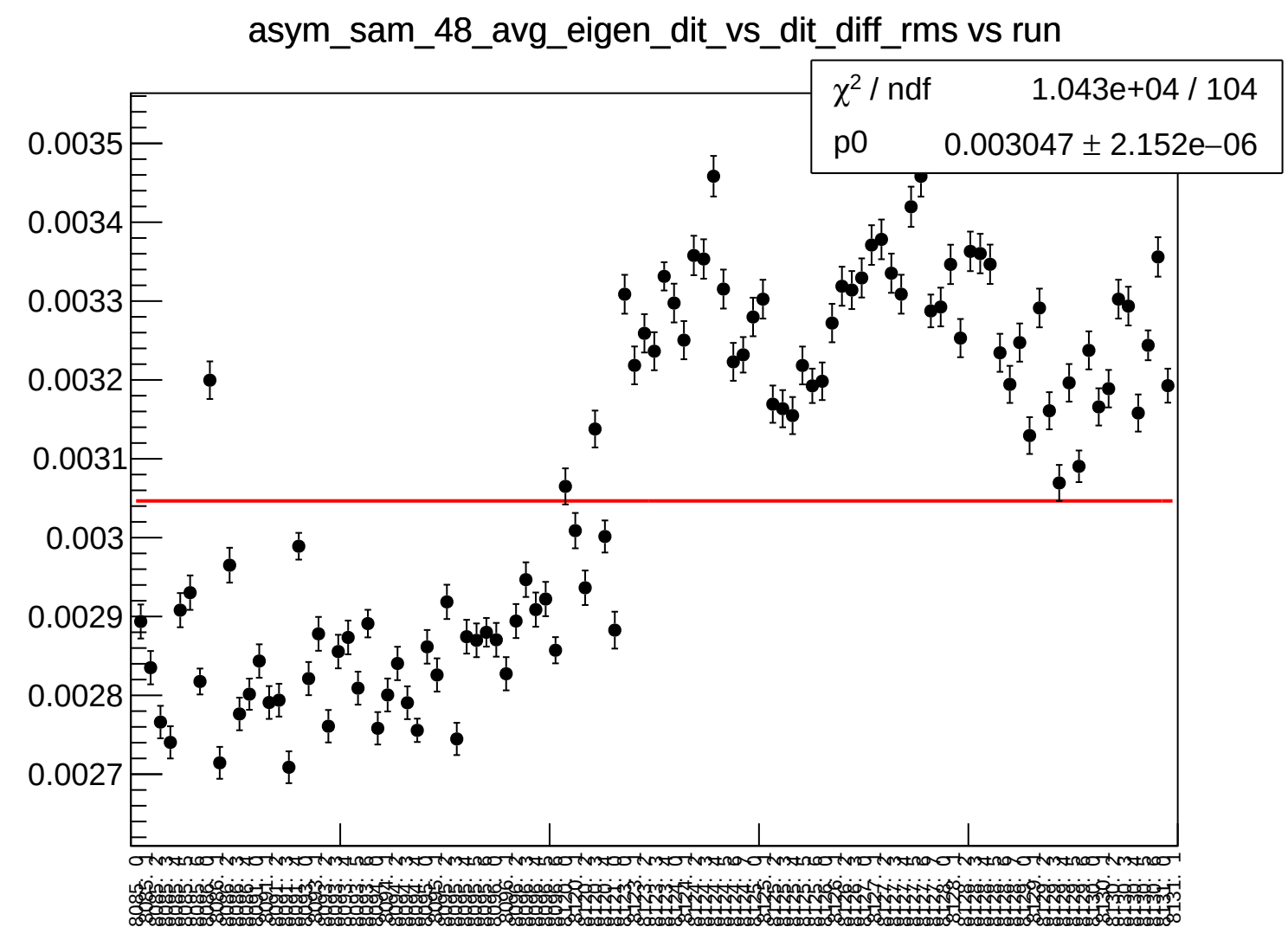

asym_sam_48_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.32 / 105
p0 0.05493 ± 0.08062
pull
Entries 106
Mean 49.03
Std Dev 79.92

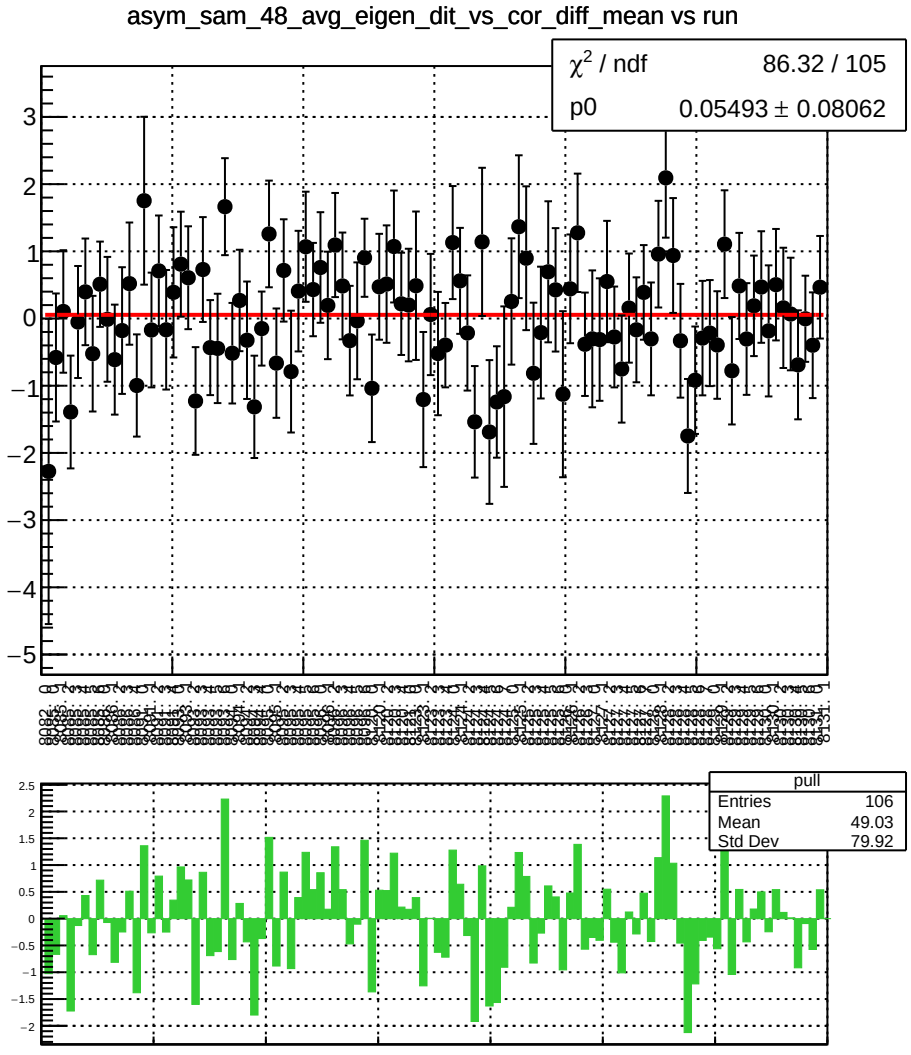

pull1D
Entries 106
Mean −0.01429
Std Dev 0.9023

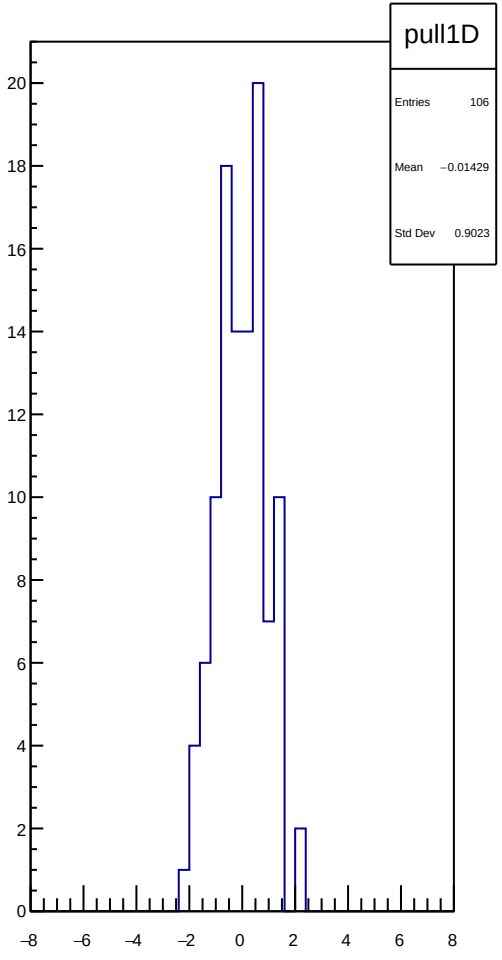

asym_sam_48_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.776e+04 / 105
p0 80.52 ± 0.05701
160
140
120
100
80
60

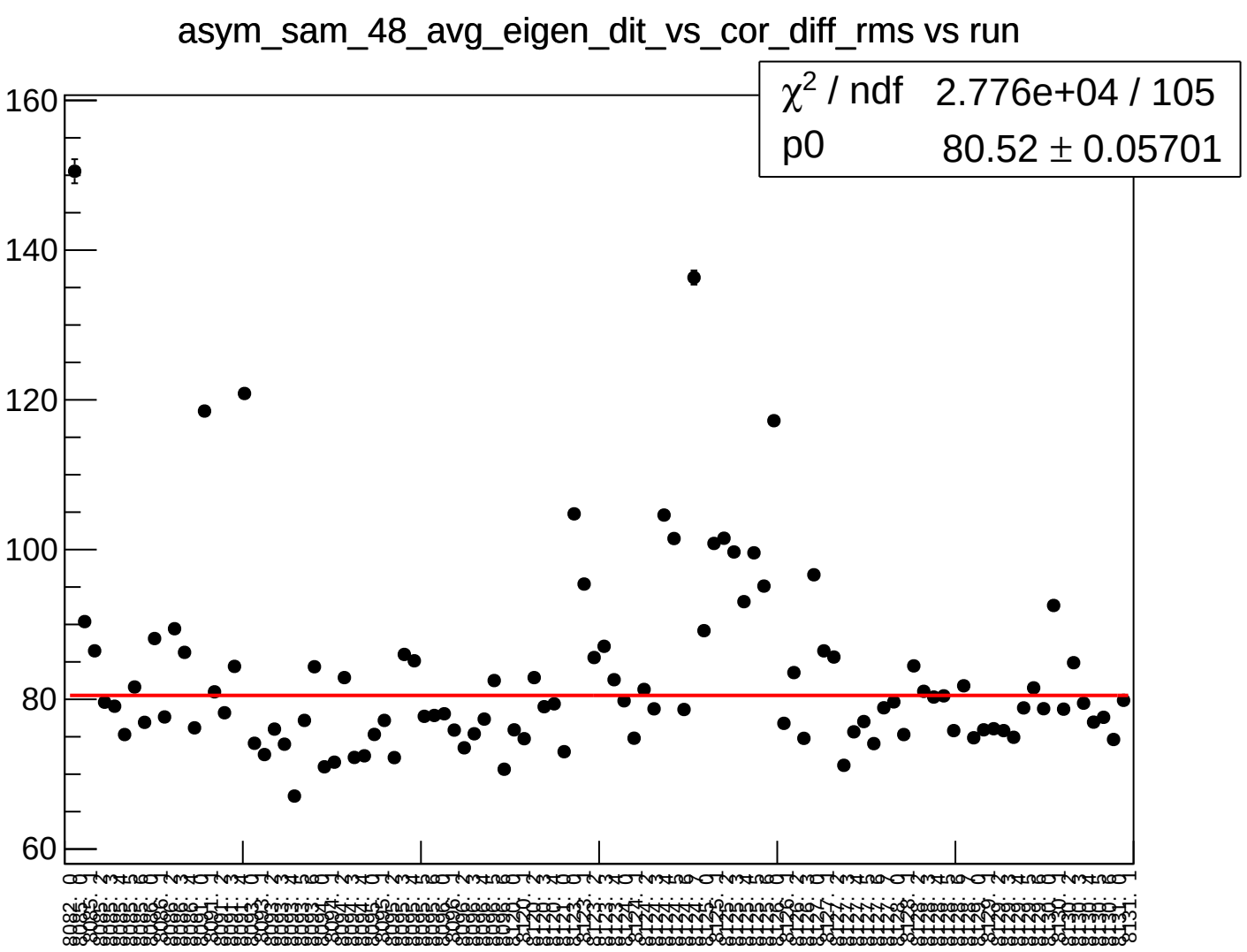

asym_sam_48_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.82 / 104
p0 −5.817e−06 ± 3.044e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 105
Mean −4338
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

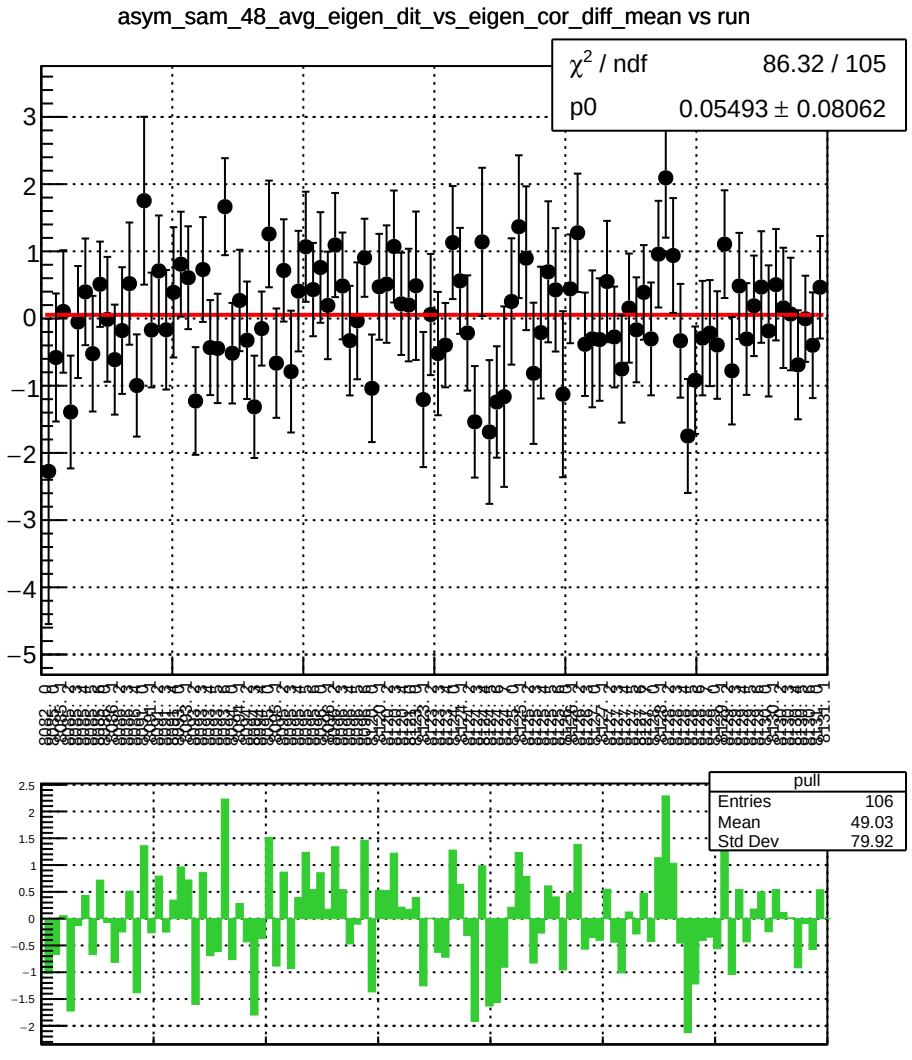

pull1D
Entries 105
Mean −0.0003686
Std Dev 0.9249
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

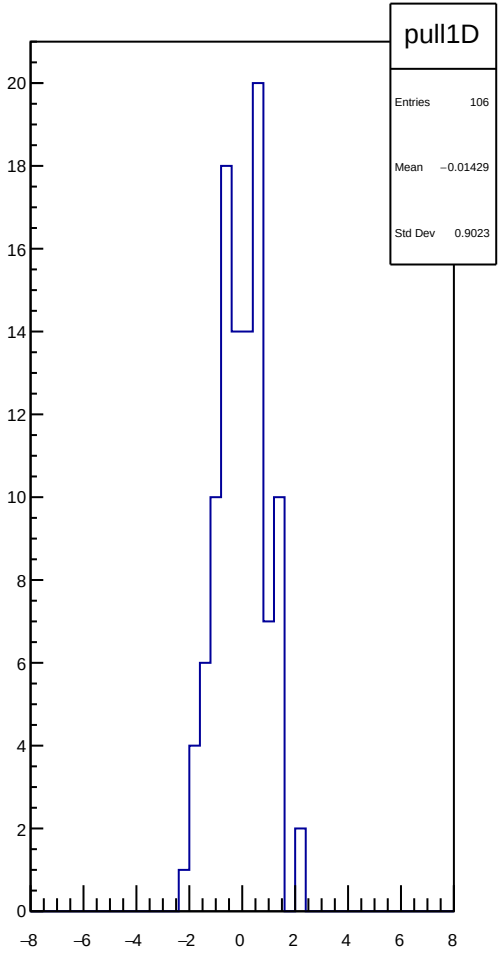

asym_sam_48_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.043e+04 / 104
p0 0.003047 ± 2.152e−06
0.0035
0.0034
0.0033
0.0032
0.0031
0.003
0.0029
0.0028
0.0027

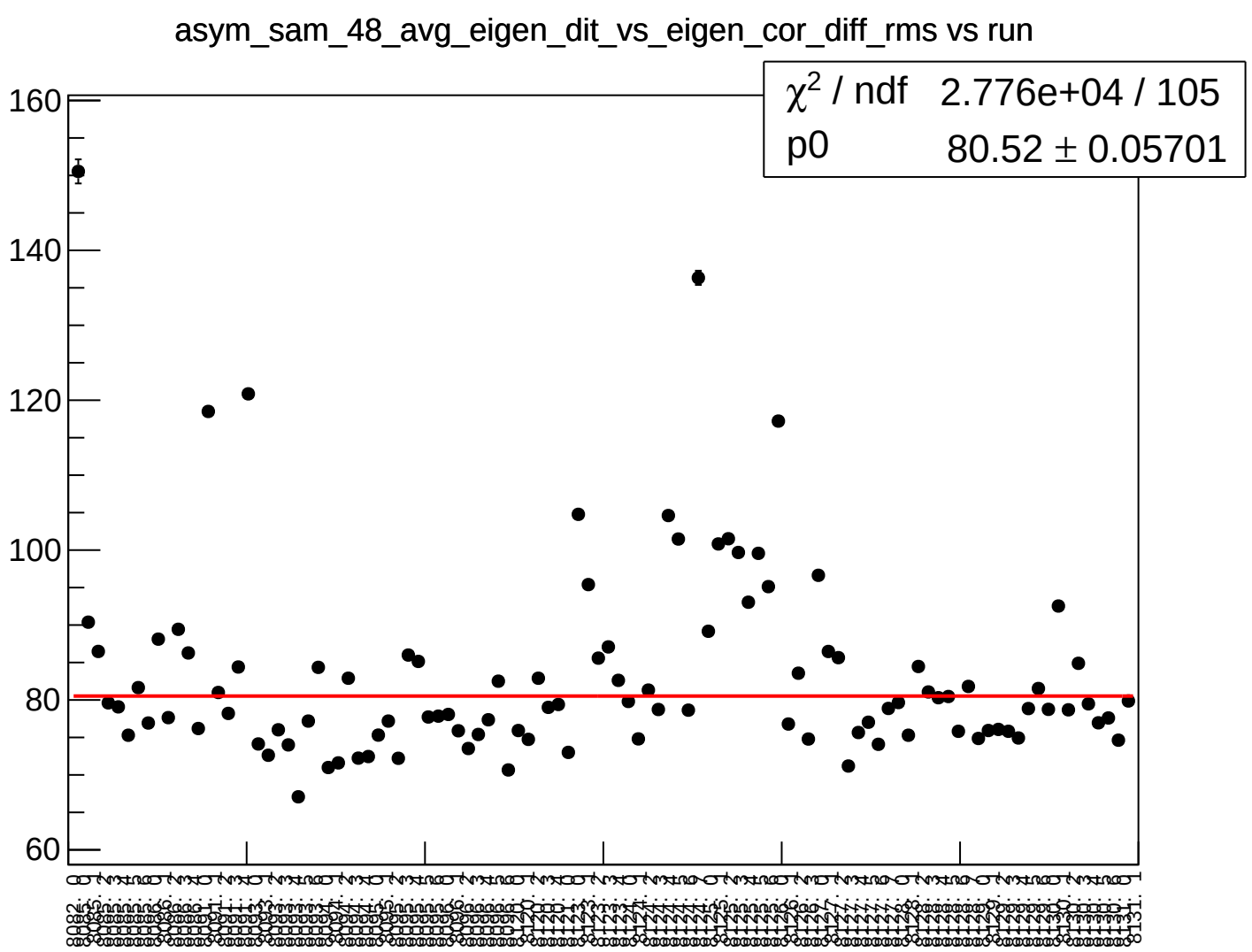

asym_sam_48_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.32 / 105
p0 0.05493 ± 0.08062
pull
Entries 106
Mean 49.03
Std Dev 79.92

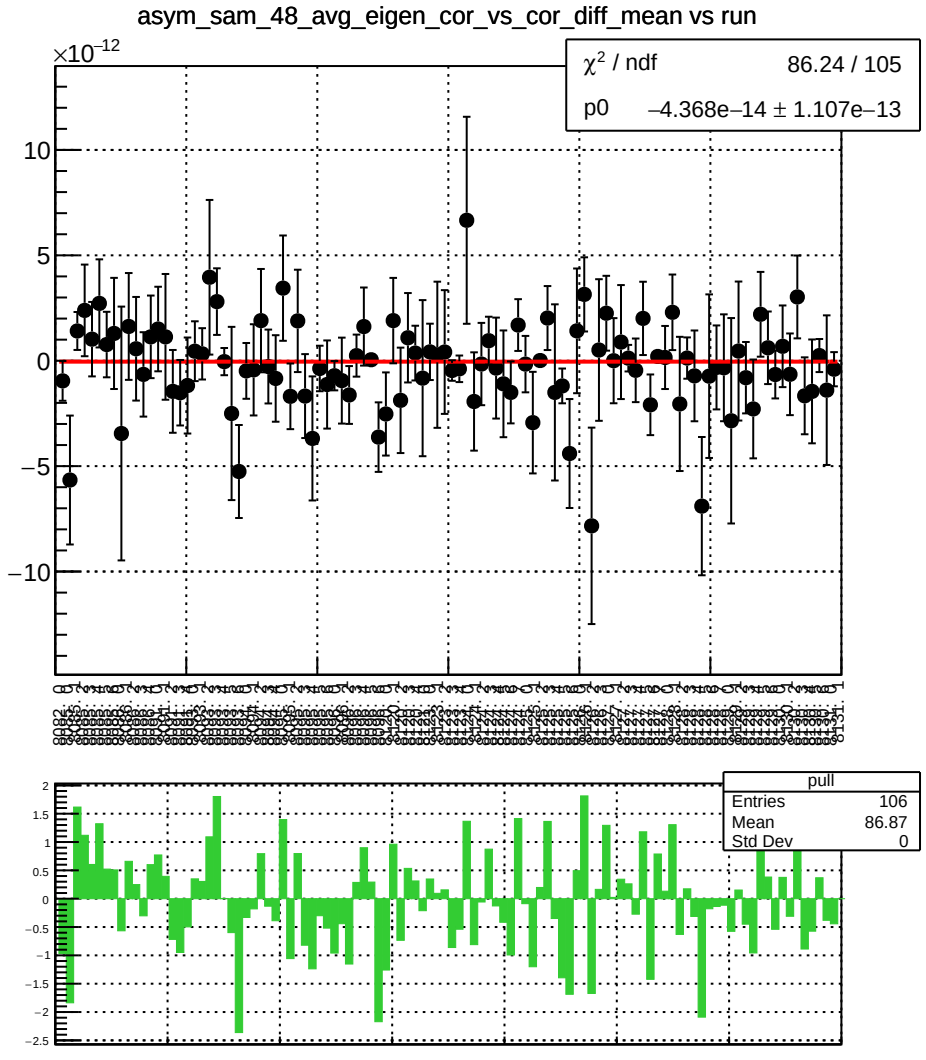

pull1D
Entries 106
Mean −0.01429
Std Dev 0.9023

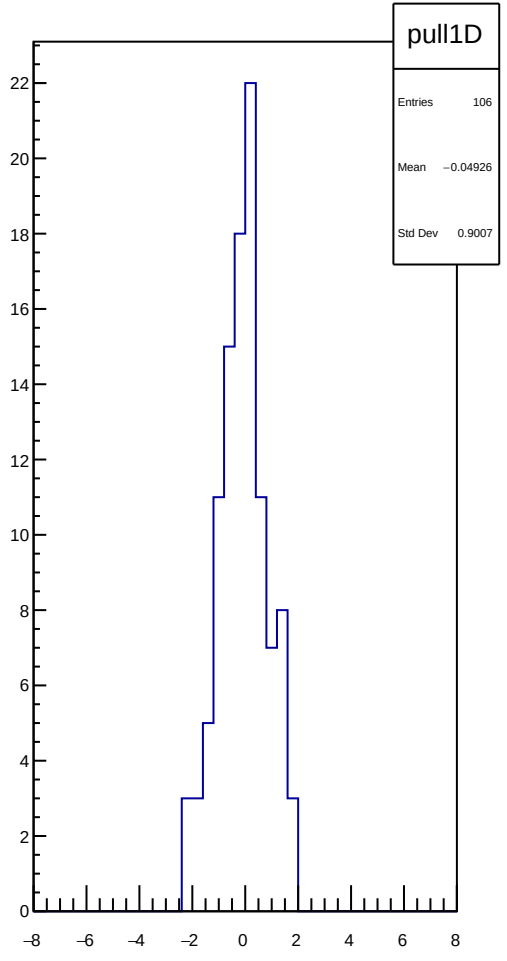

asym_sam_48_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.776e+04 / 105
p0 80.52 ± 0.05701
160
140
120
100
80
60

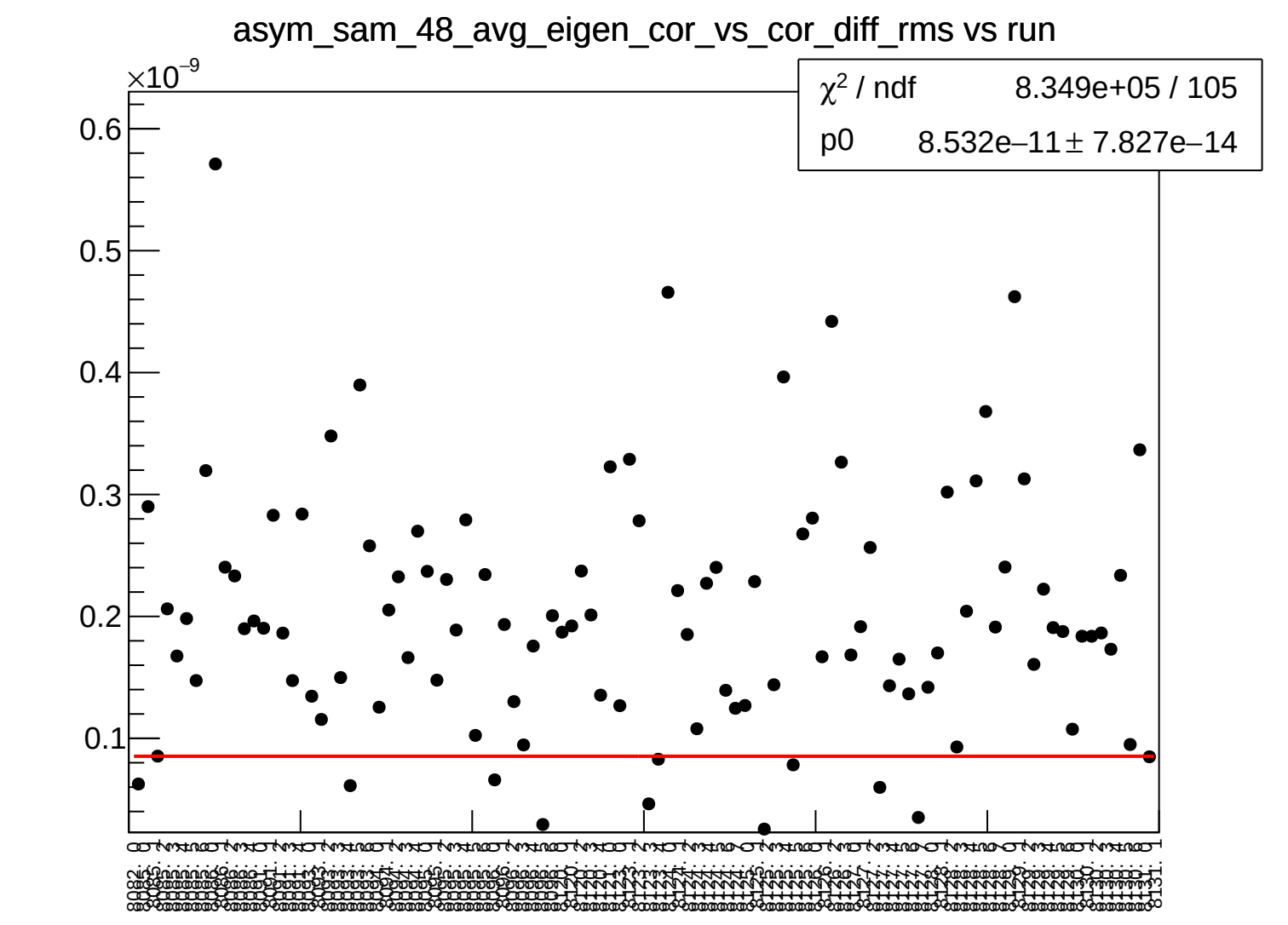

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.32 / 105
p0 0.05493 ± 0.08062
pull
Entries 106
Mean 49.03
Std Dev 79.92

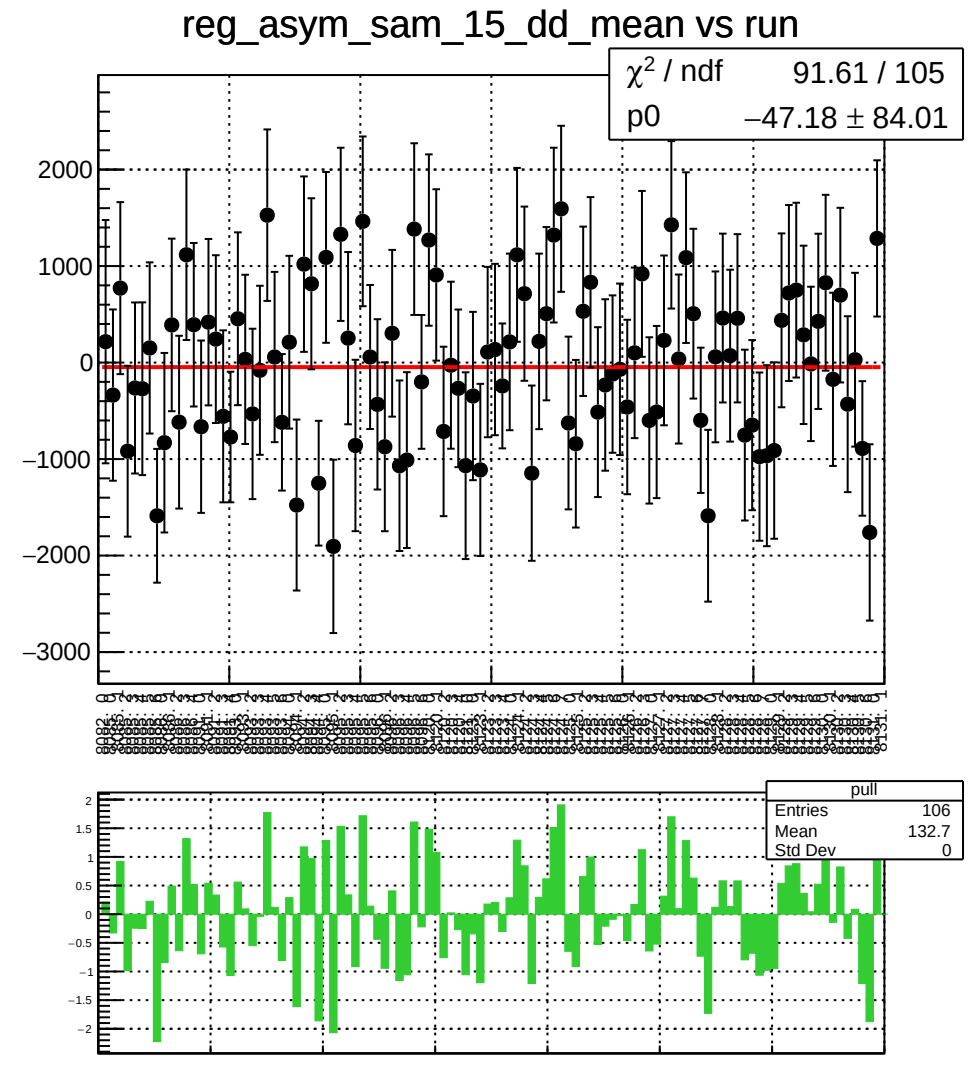

pull1D
Entries 106
Mean −0.01429
Std Dev 0.9023

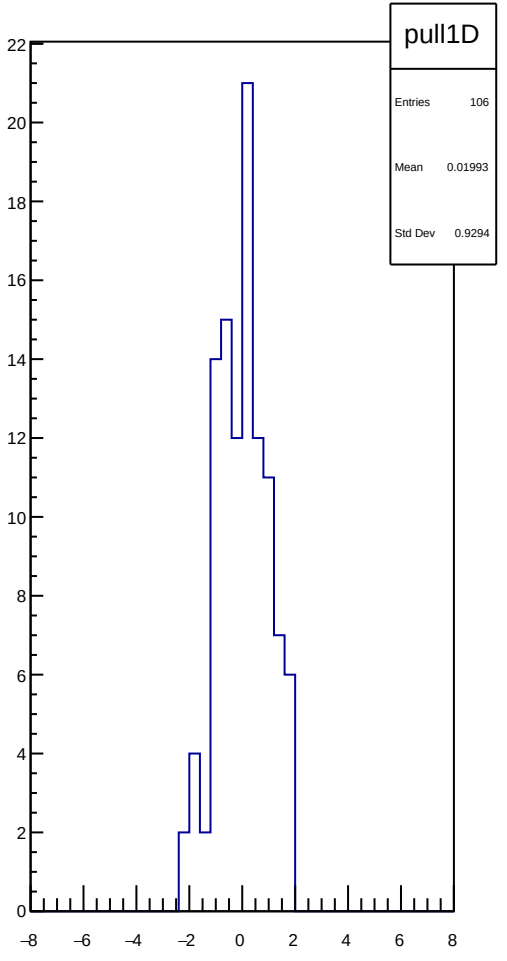

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.776e+04 / 105
p0 80.52 ± 0.05701
160
140
120
100
80
60

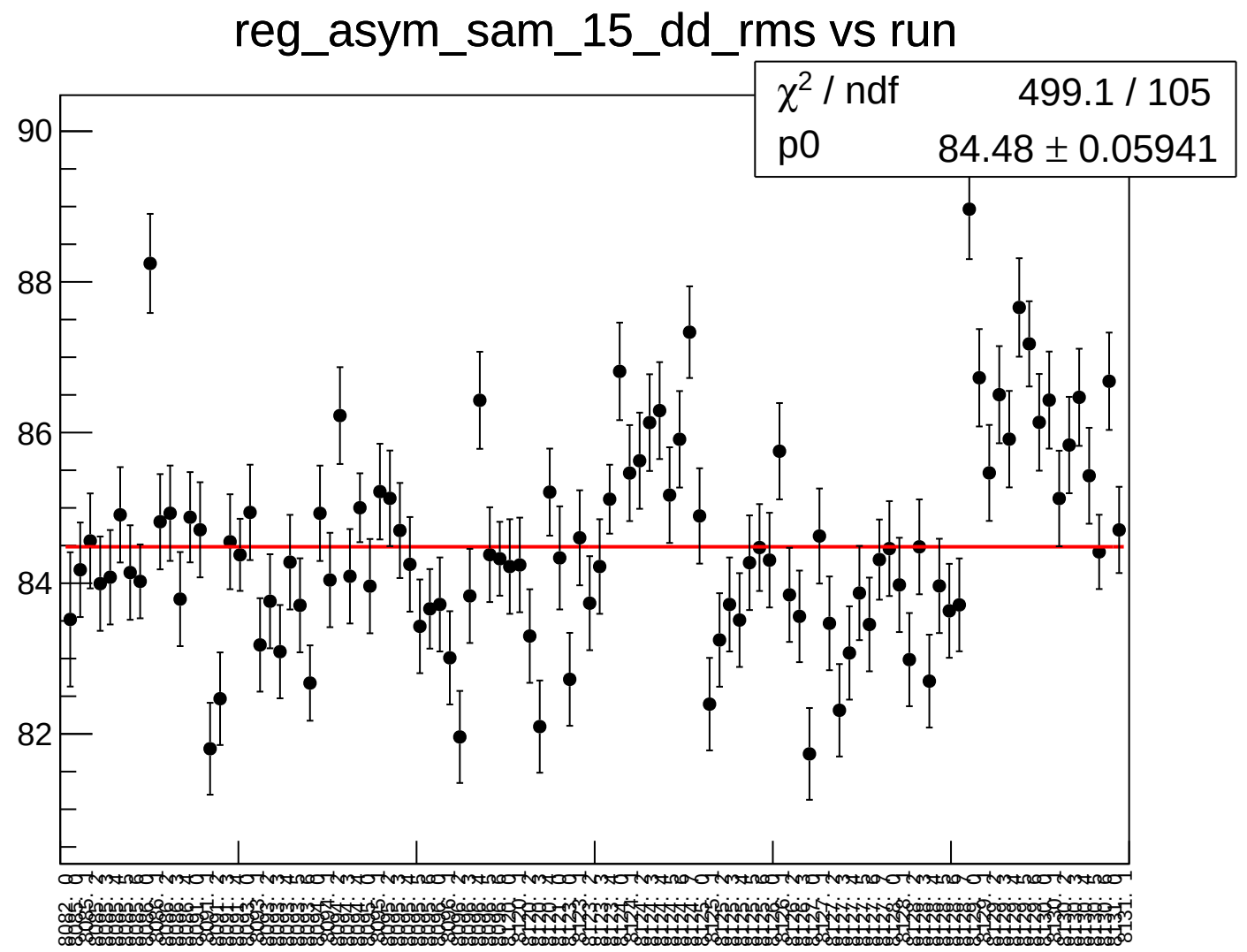

asym_sam_48_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.24 / 105
p0 −4.368e−14 ± 1.107e−13
pull
Entries 106
Mean 86.87
Std Dev 0

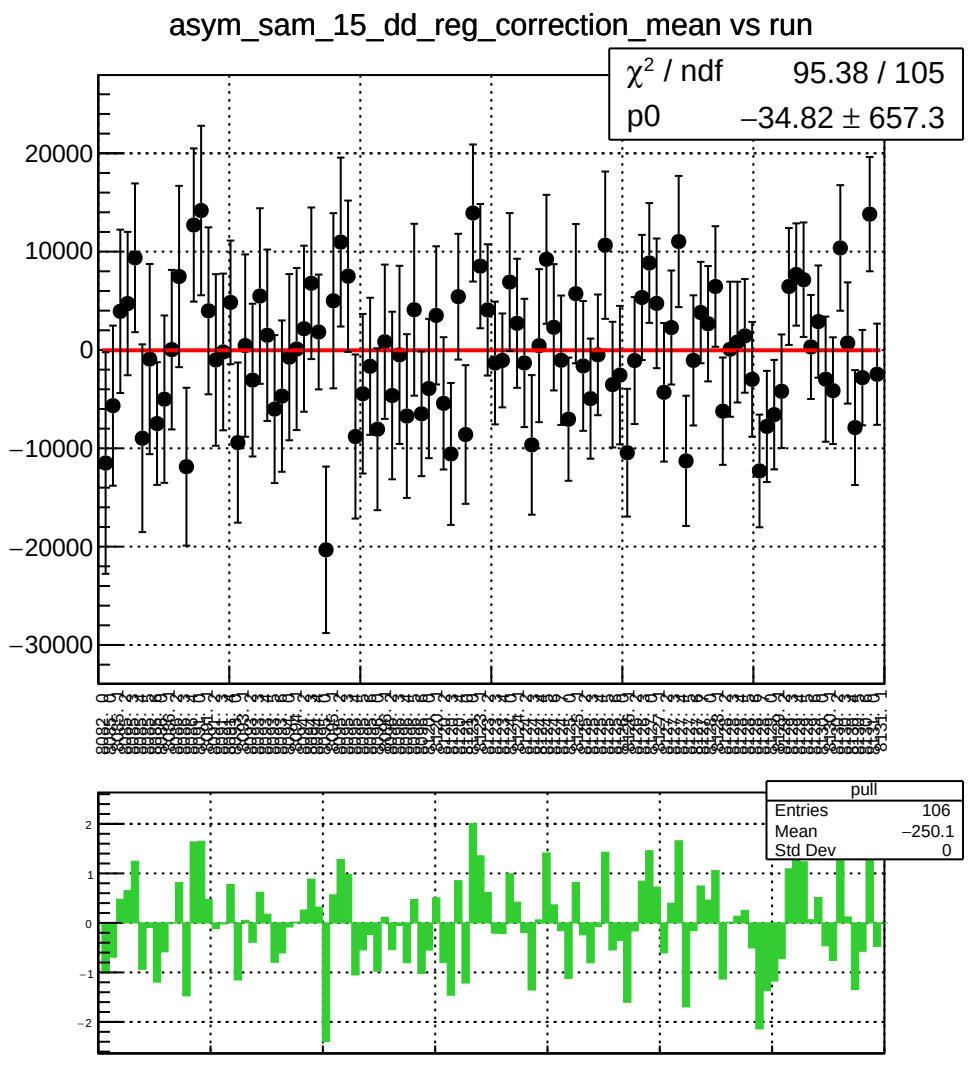

pull1D
Entries 106
Mean −0.04926
Std Dev 0.9007

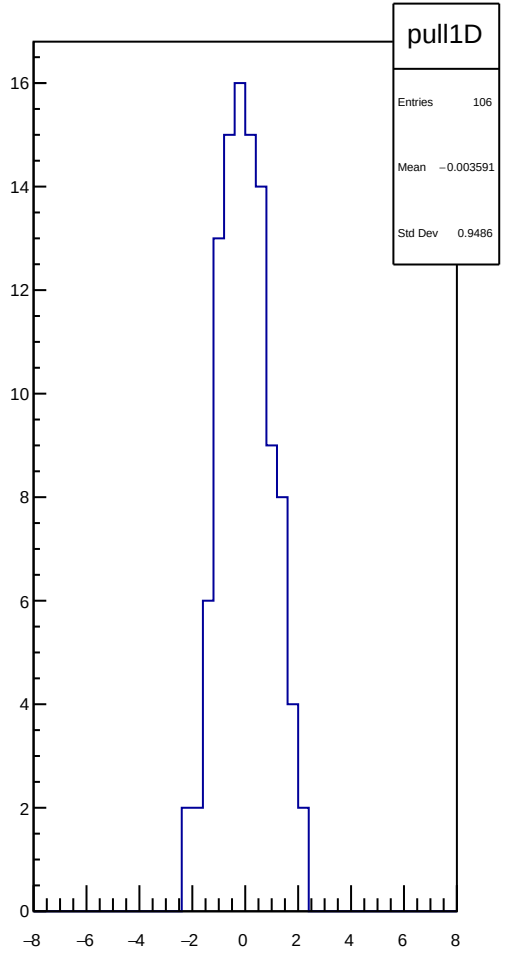

asym_sam_48_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.349e+05 / 105
p0 8.532e−11 ± 7.827e−14
0.6
0.5
0.4
0.3
0.2
0.1

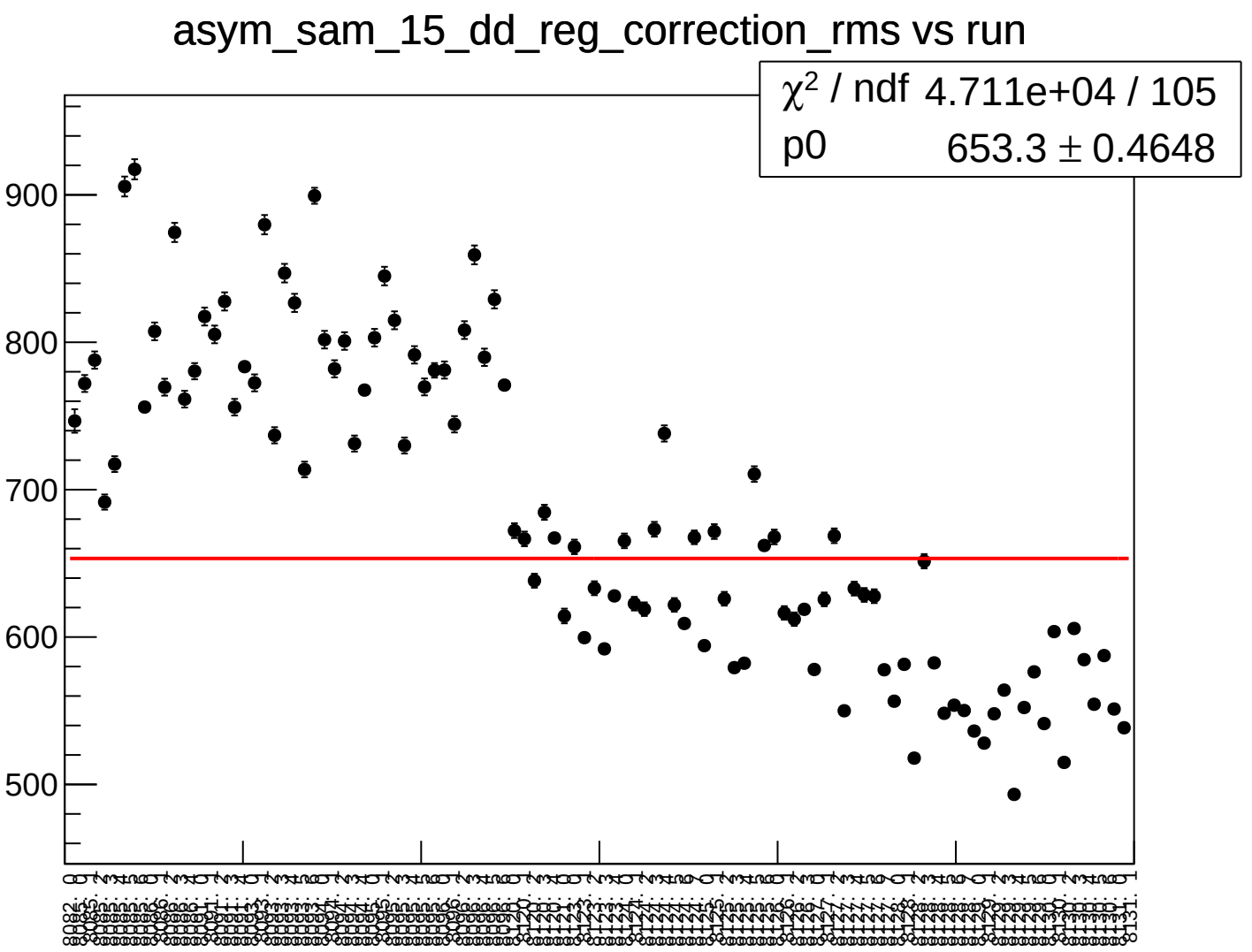

reg_asym_sam_15_dd_mean vs run
$\chi^2$ / ndf 91.61 / 105
p0 −47.18 ± 84.01
2000
1000
0
−1000
−2000
−3000
pull
Entries 106
Mean 132.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

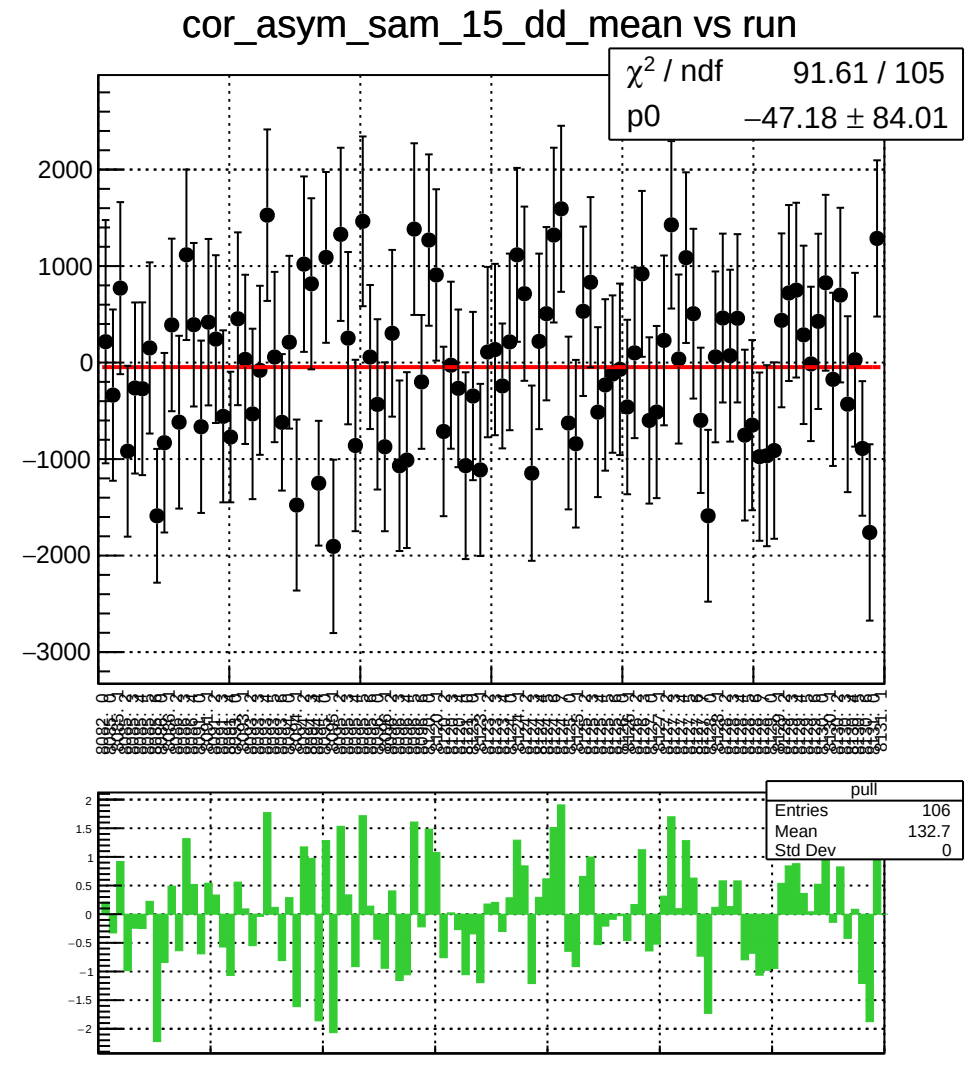

pull1D
Entries 106
Mean 0.01993
Std Dev 0.9294
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

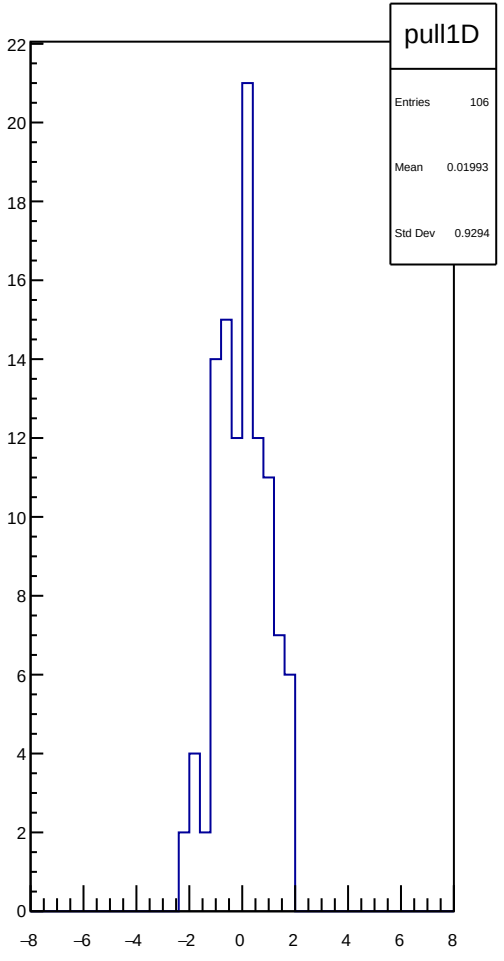

reg_asym_sam_15_dd_rms vs run
$\chi^2$ / ndf 499.1 / 105
p0 84.48 ± 0.05941
90
88
86
84
82

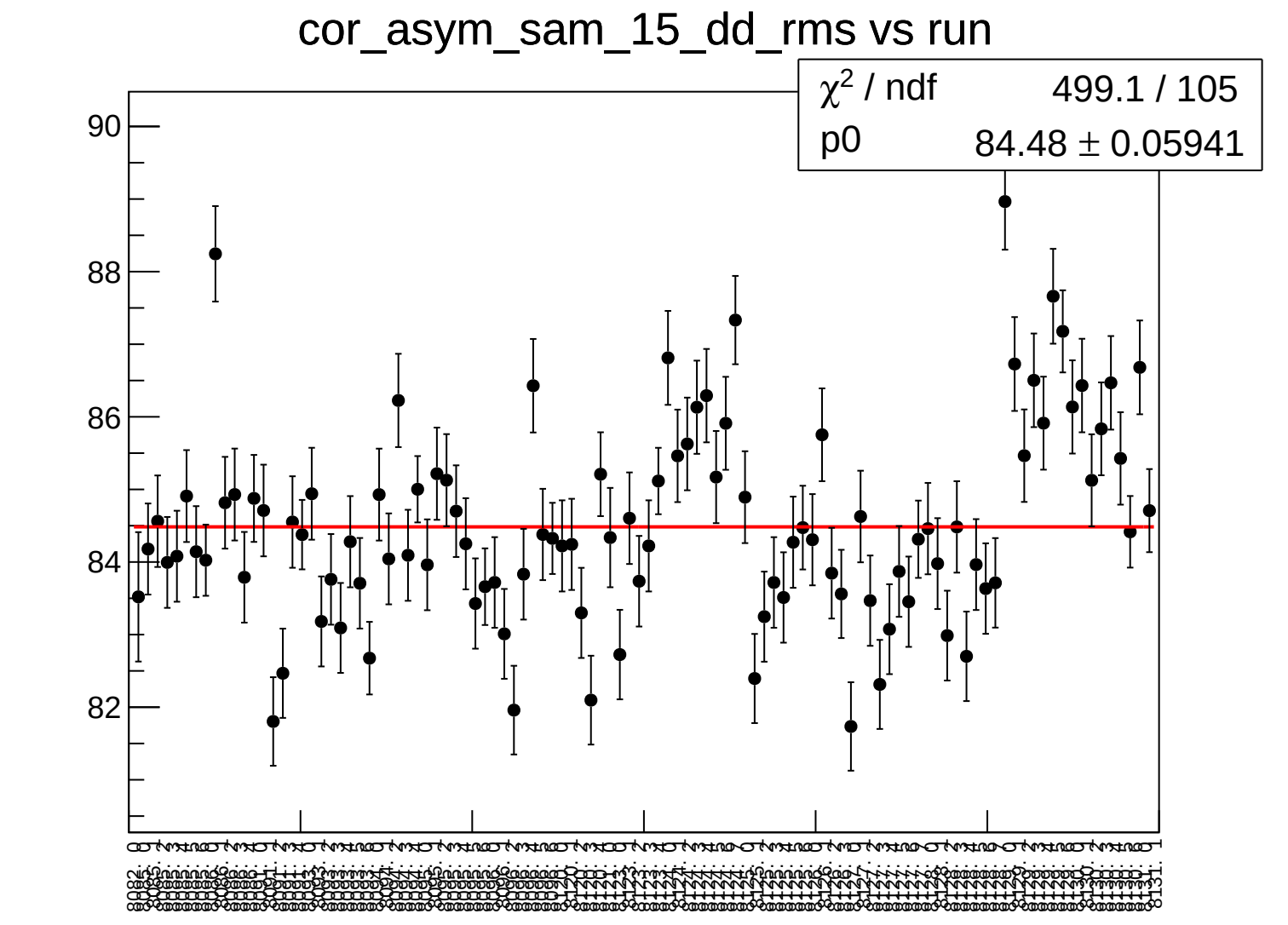

asym_sam_15_dd_reg_correction_mean vs run
χ² / ndf 95.38 / 105
p0 −34.82 ± 657.3
20000
10000
0
−10000
−20000
−30000
pull
Entries 106
Mean −250.1
Std Dev 0
2
1
0
−1
−2

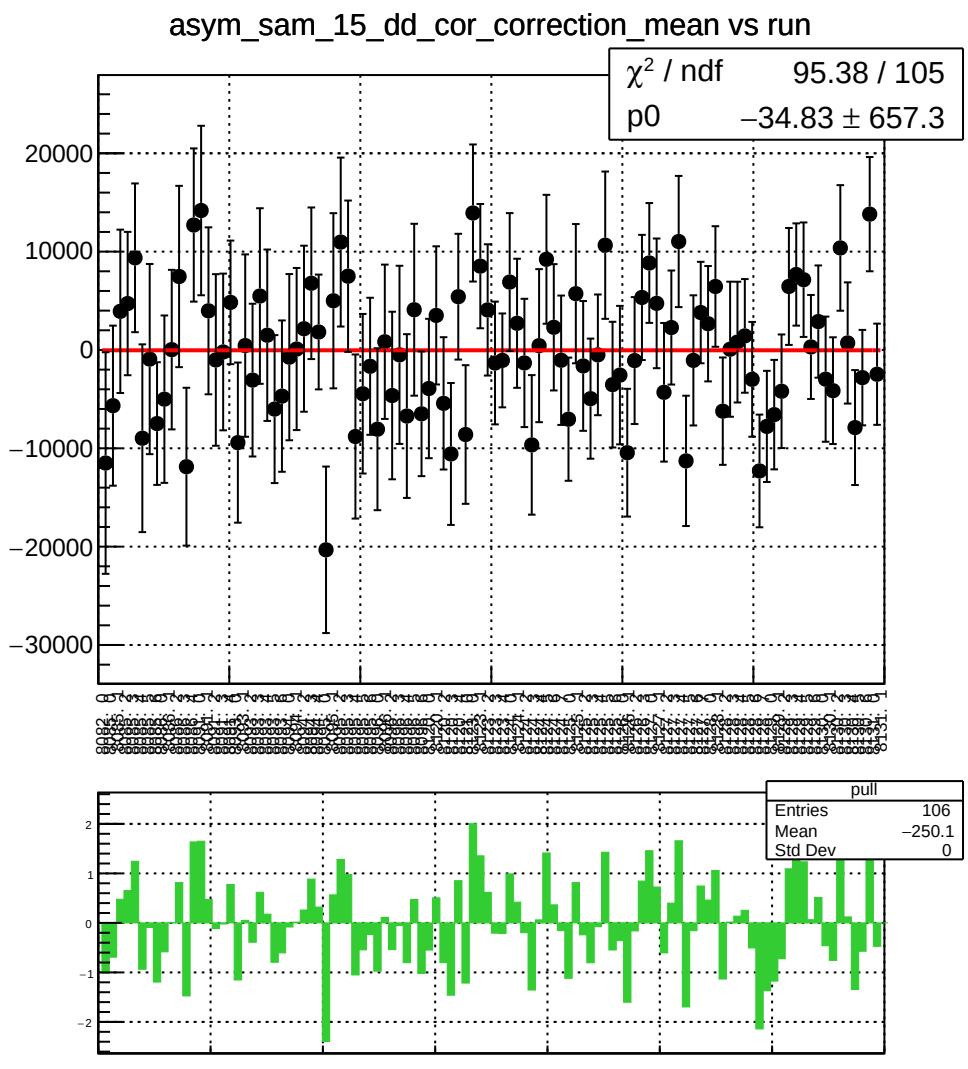

pull1D
Entries 106
Mean −0.003591
Std Dev 0.9486
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

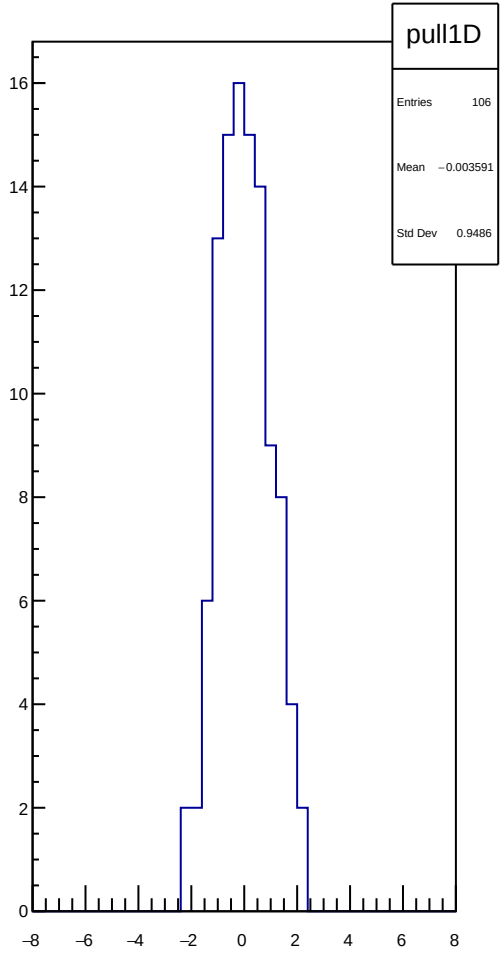

asym_sam_15_dd_reg_correction_rms vs run
$\chi^2$ / ndf 4.711e+04 / 105
p0 653.3 ± 0.4648
900
800
700
600
500

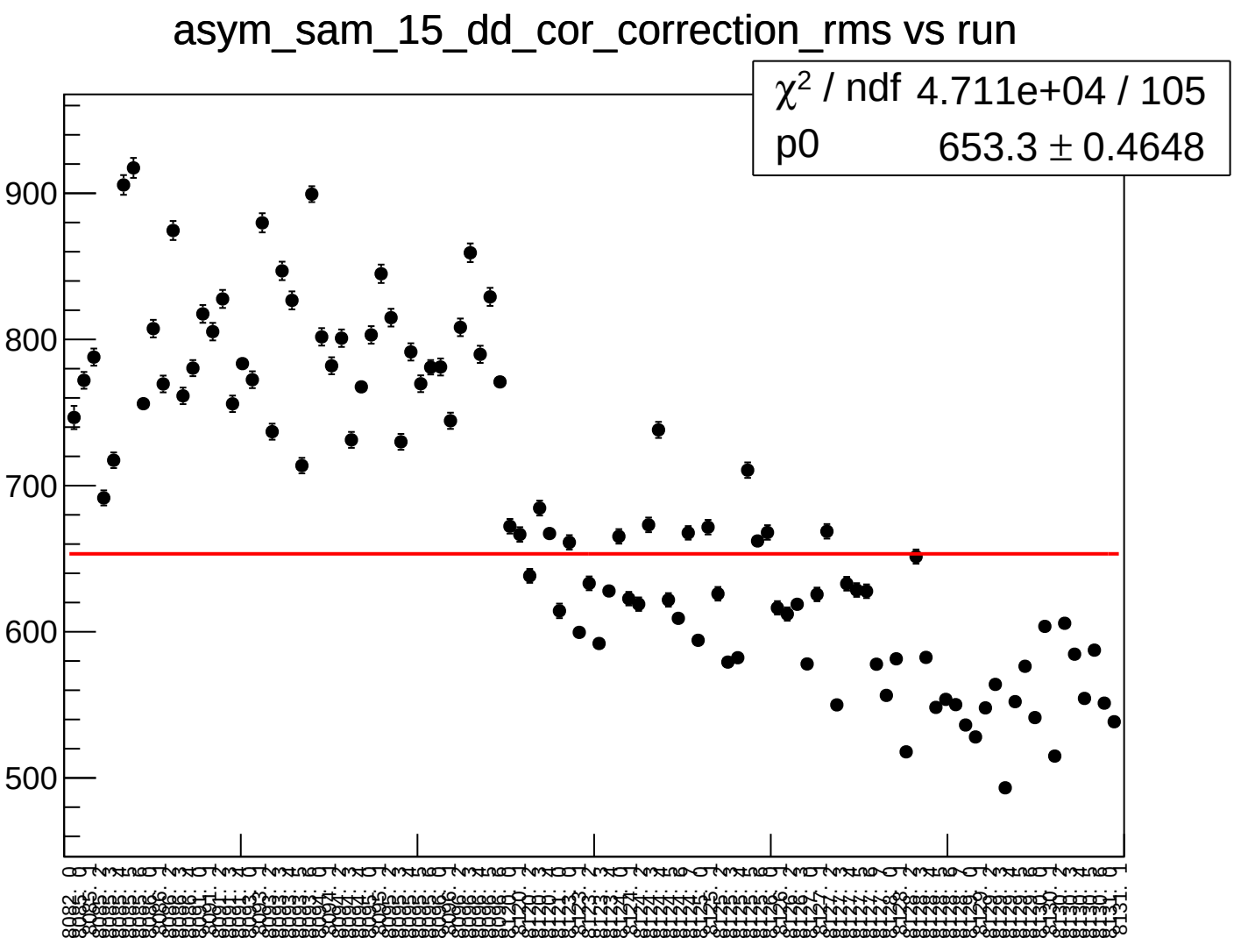

cor_asym_sam_15_dd_mean vs run
χ² / ndf 91.61 / 105
p0 −47.18 ± 84.01
2000
1000
0
−1000
−2000
−3000
pull
Entries 106
Mean 132.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

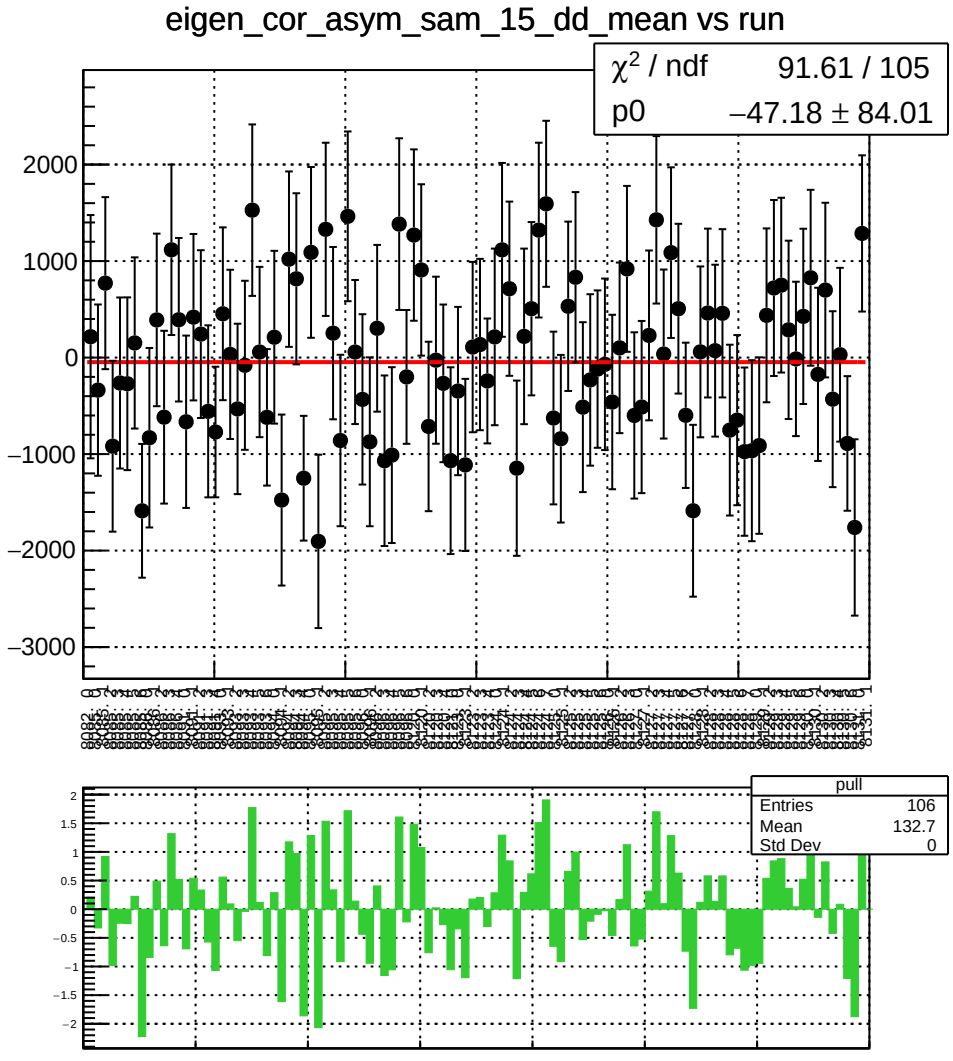

pull1D
Entries 106
Mean 0.01993
Std Dev 0.9294
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

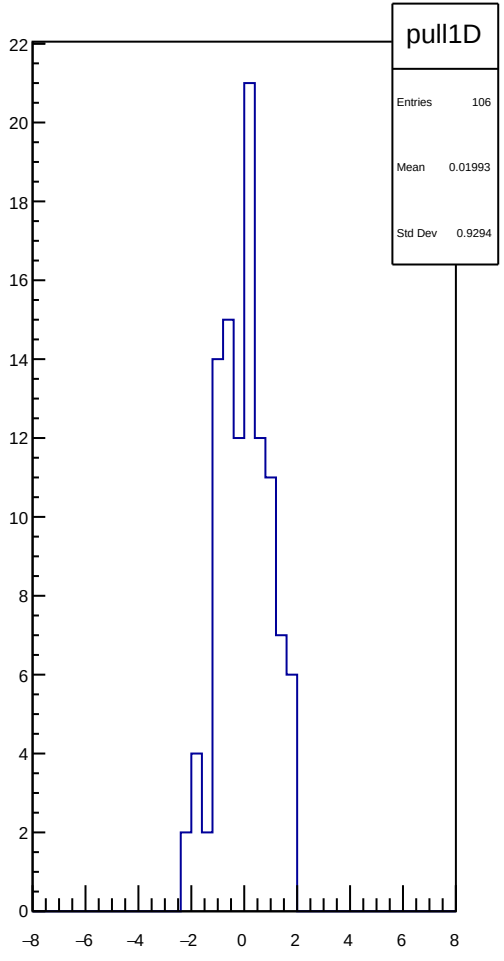

cor_asym_sam_15_dd_rms vs run
$\chi^2$ / ndf 499.1 / 105
p0 84.48 ± 0.05941
90
88
86
84
82

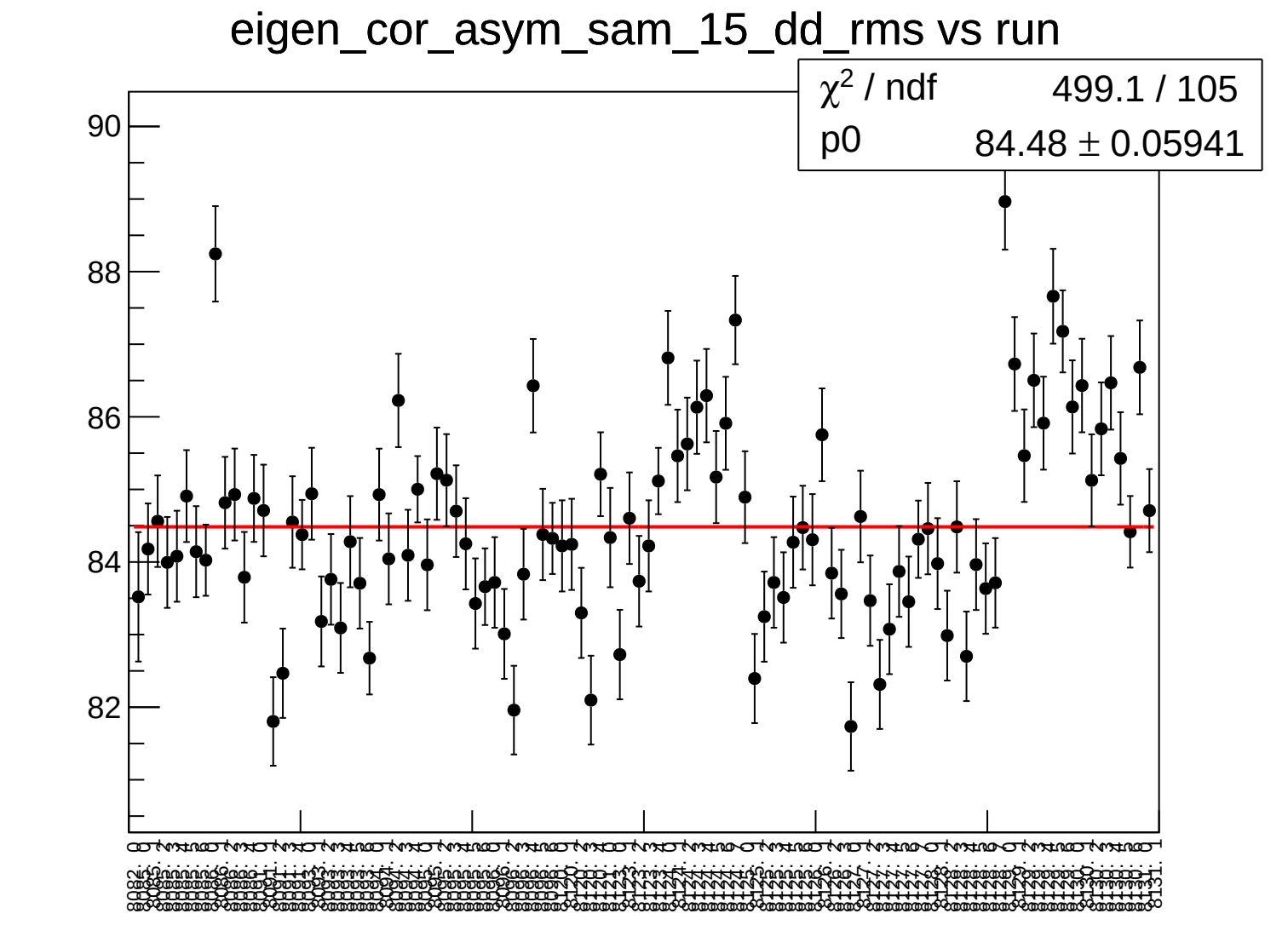

asym_sam_15_dd_cor_correction_mean vs run
χ² / ndf 95.38 / 105
p0 −34.83 ± 657.3
20000
10000
0
−10000
−20000
−30000
pull
Entries 106
Mean −250.1
Std Dev 0
2
1
0
−1
−2

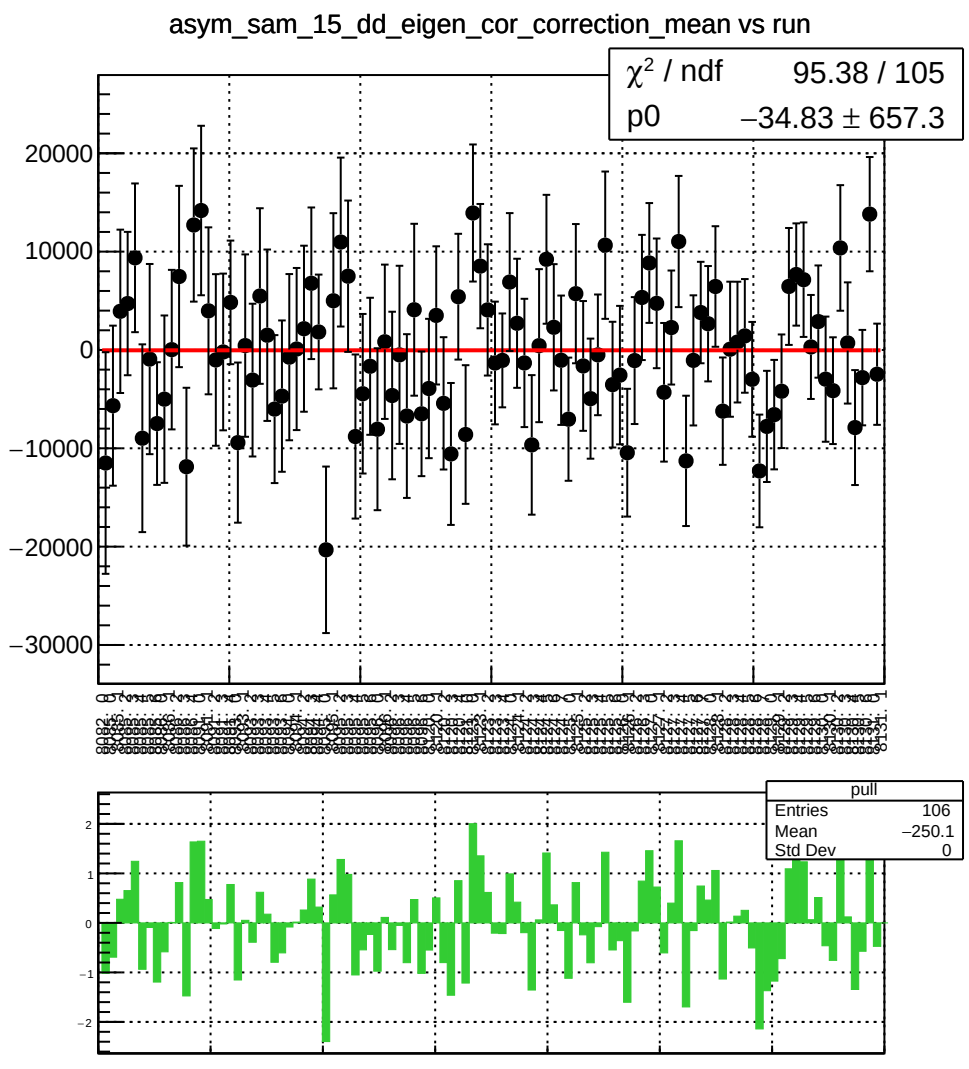

pull1D
Entries 106
Mean −0.003591
Std Dev 0.9486
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

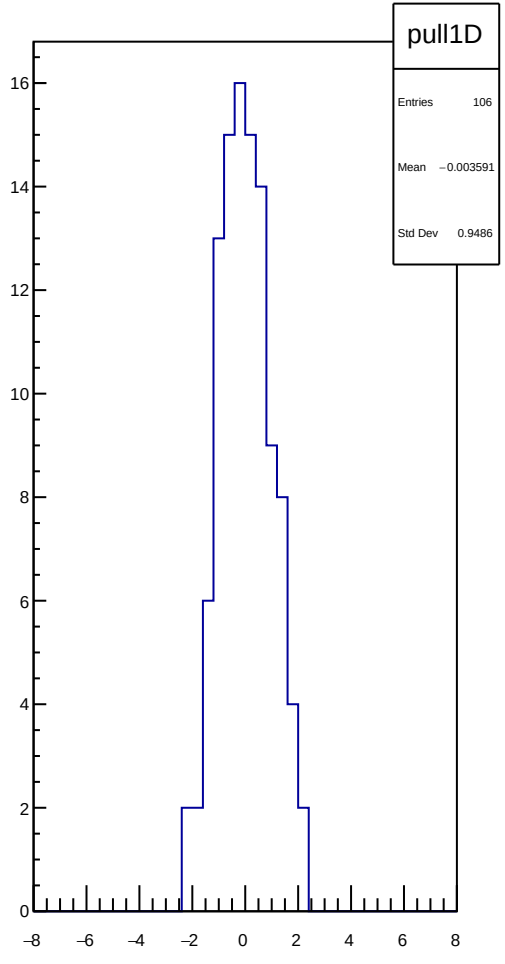

asym_sam_15_dd_cor_correction_rms vs run
$\chi^2$ / ndf 4.711e+04 / 105
p0 653.3 ± 0.4648
900
800
700
600
500

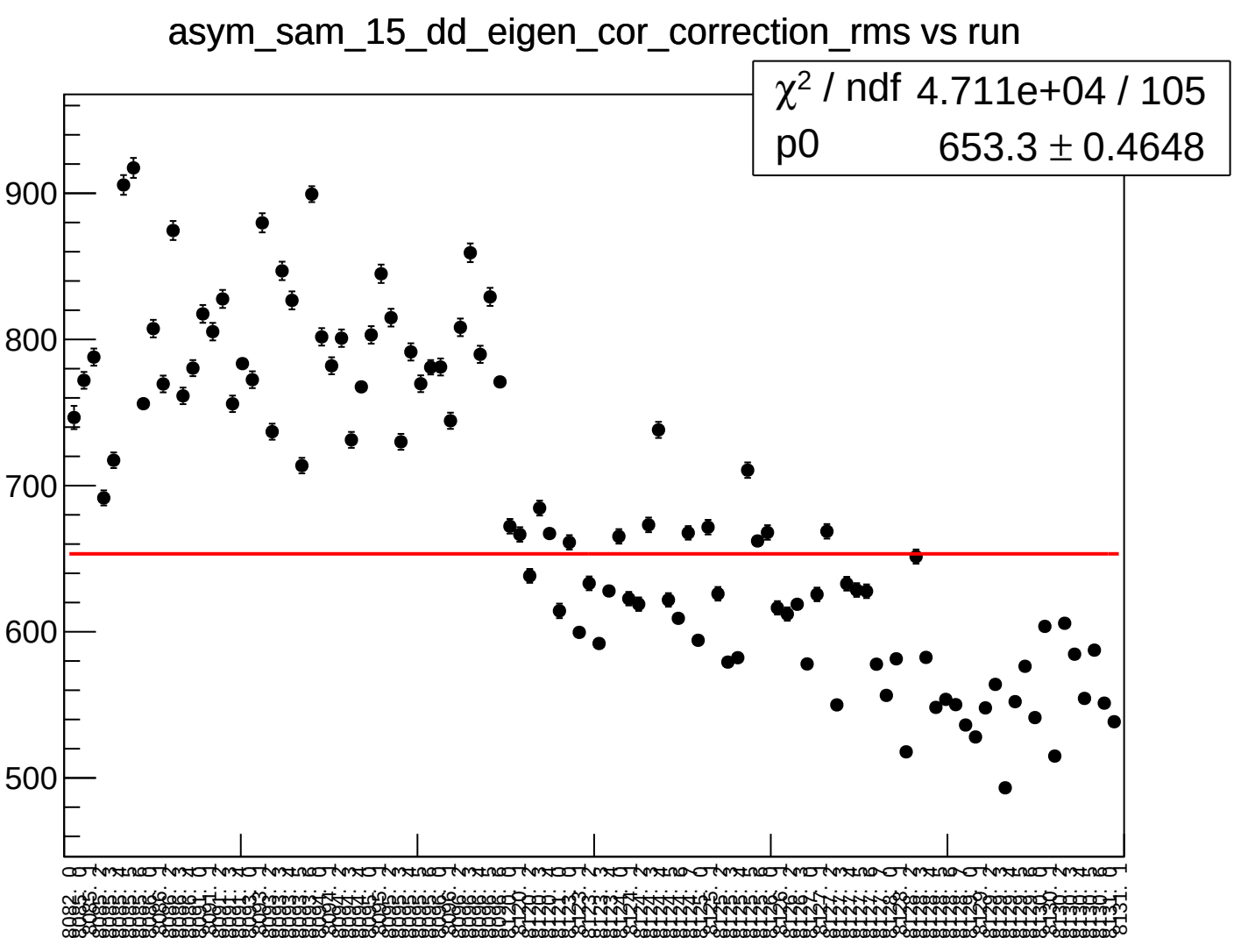

eigen_cor_asym_sam_15_dd_mean vs run
χ² / ndf 91.61 / 105
p0 −47.18 ± 84.01
2000
1000
0
−1000
−2000
−3000
pull
Entries 106
Mean 132.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

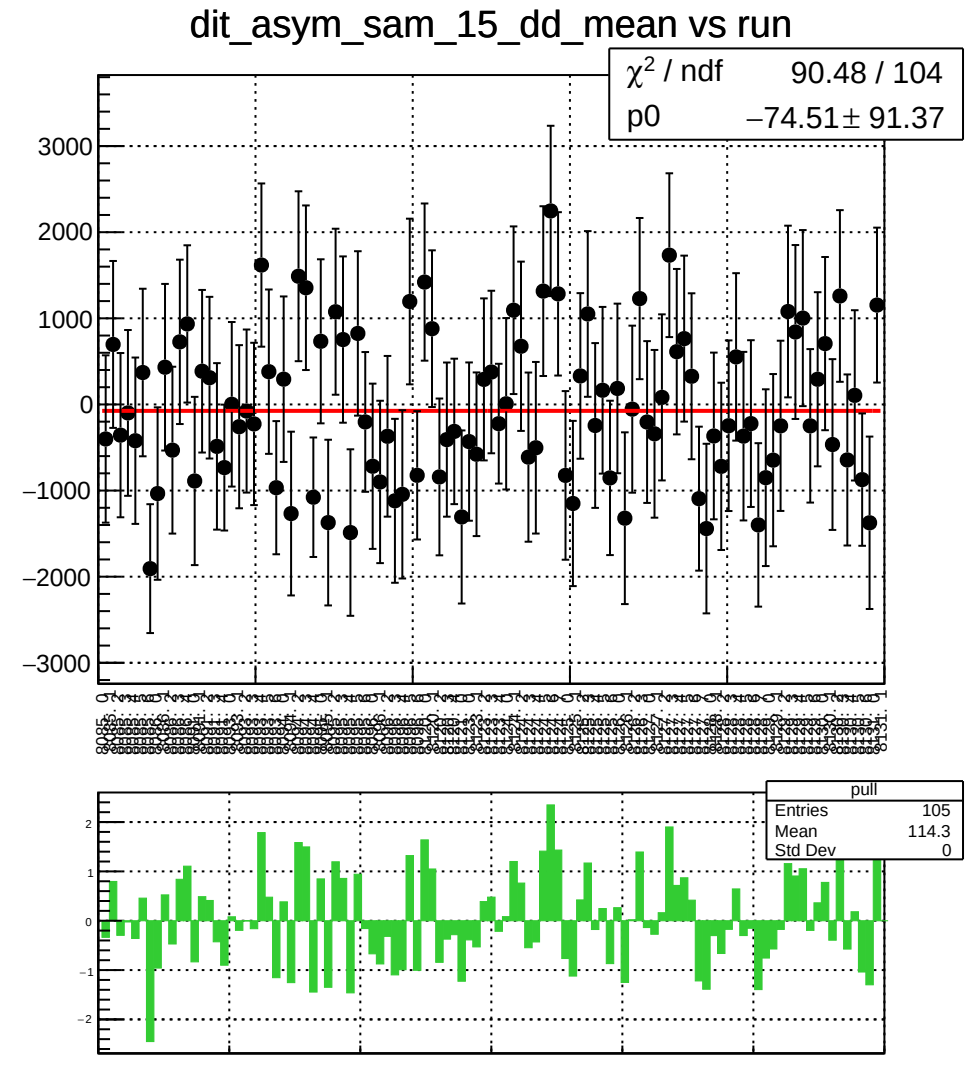

pull1D
Entries 106
Mean 0.01993
Std Dev 0.9294
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

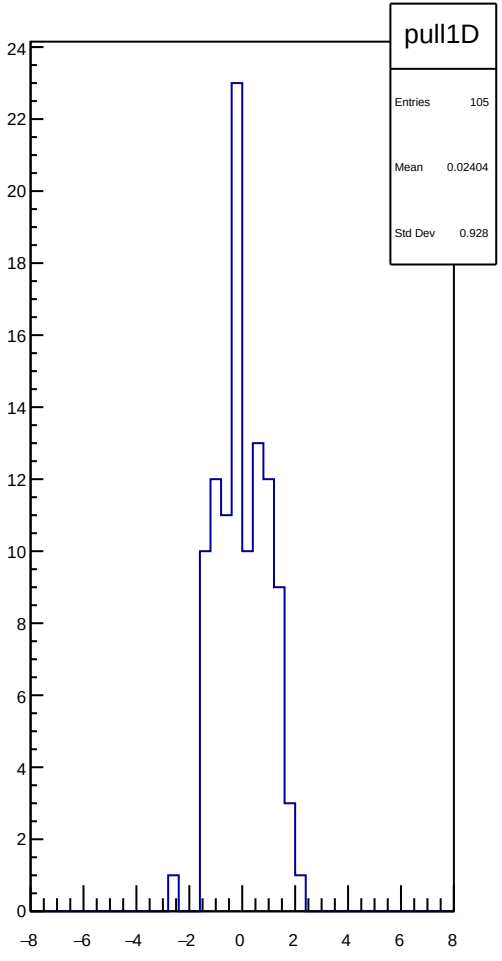

eigen_cor_asym_sam_15_dd_rms vs run
χ² / ndf 499.1 / 105
p0 84.48 ± 0.05941
90
88
86
84
82

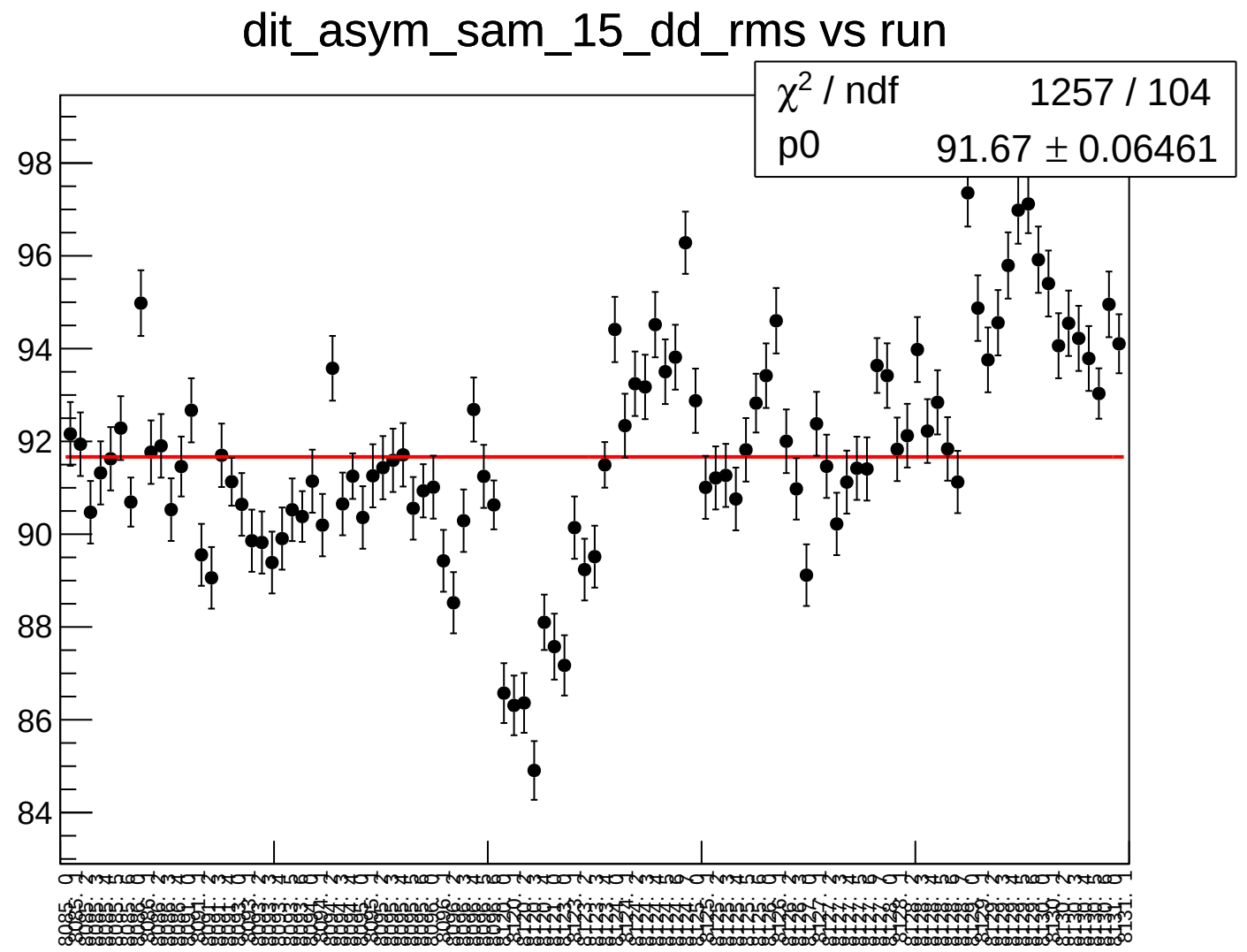

asym_sam_15_dd_eigen_cor_correction_mean vs run
χ² / ndf 95.38 / 105
p0 −34.83 ± 657.3
20000
10000
0
−10000
−20000
−30000
pull
Entries 106
Mean −250.1
Std Dev 0
2
1
0
−1
−2

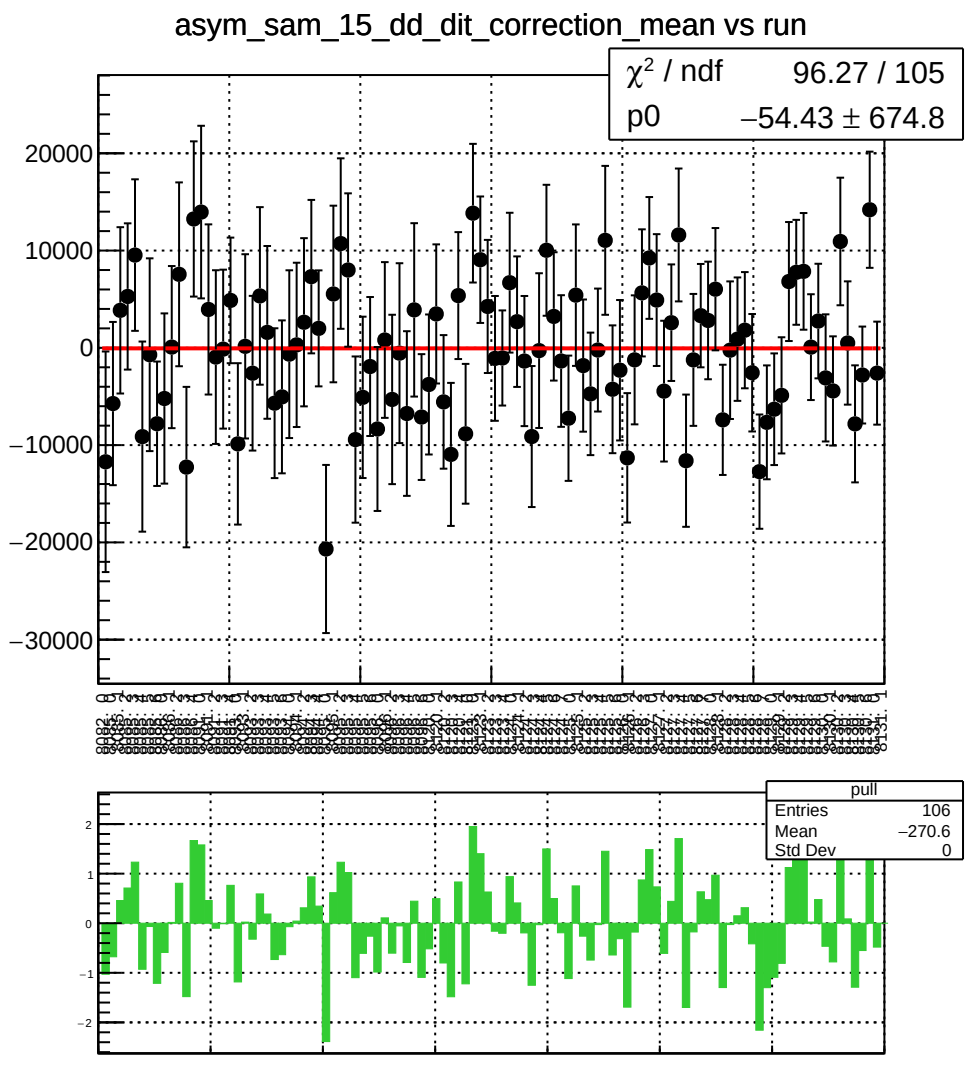

pull1D
Entries 106
Mean −0.003591
Std Dev 0.9486
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

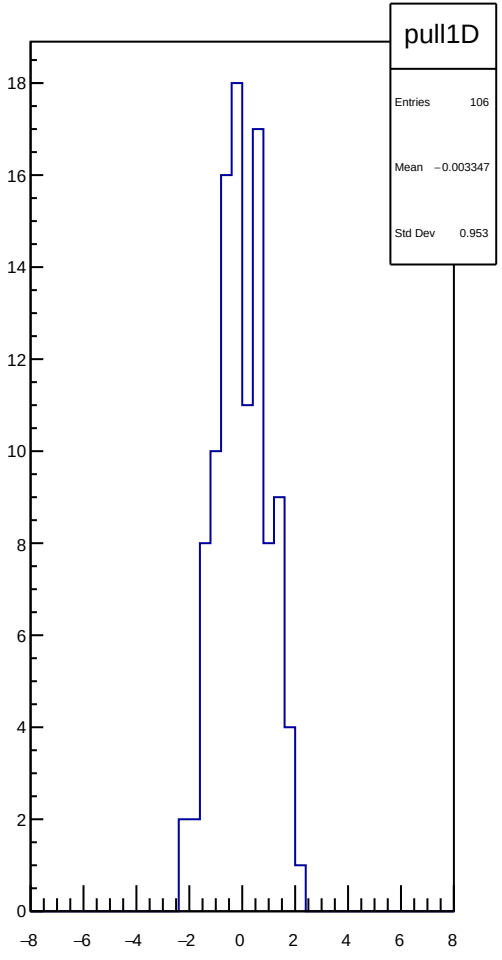

asym_sam_15_dd_eigen_cor_correction_rms vs run
χ² / ndf 4.711e+04 / 105
p0 653.3 ± 0.4648
900
800
700
600
500

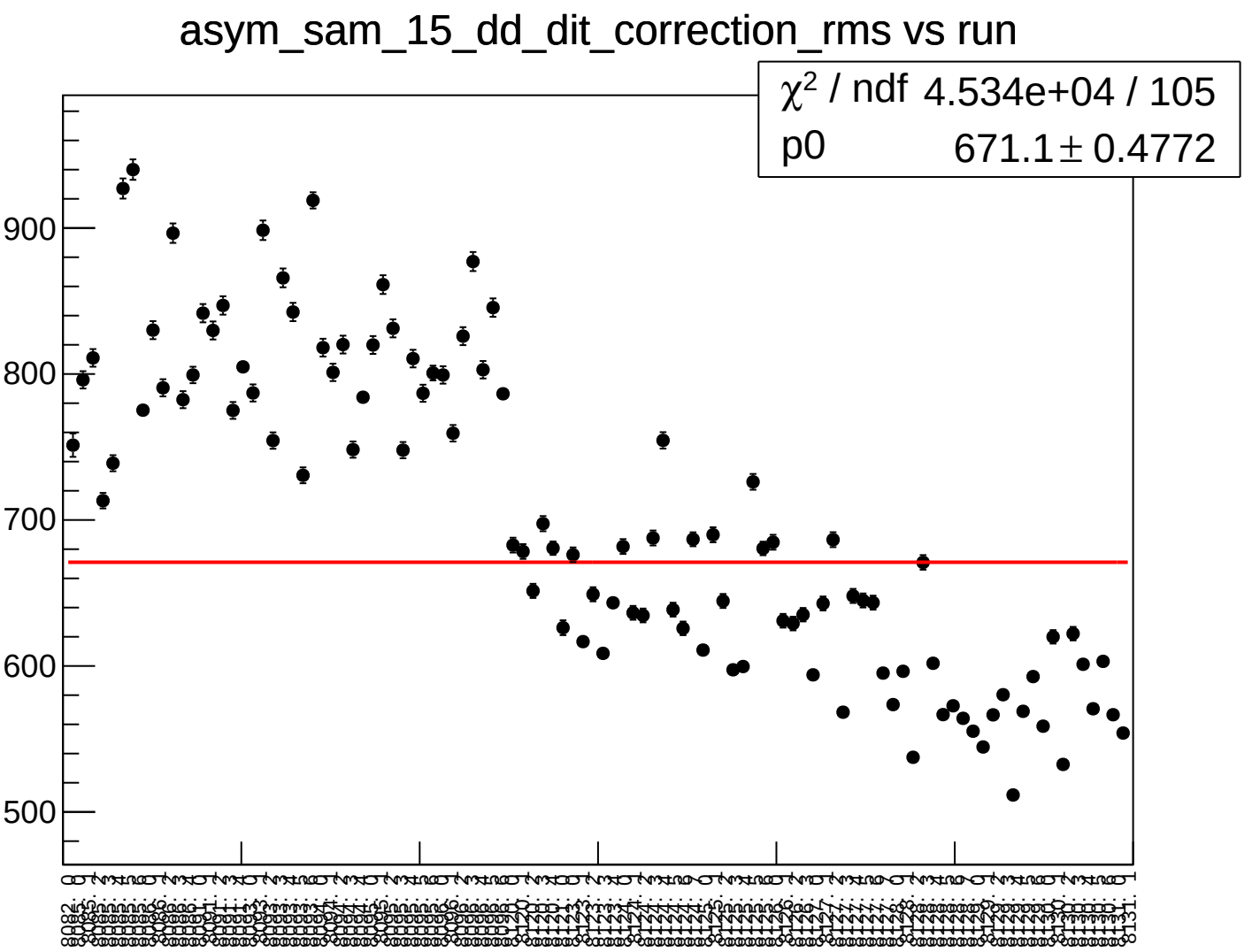

dit_asym_sam_15_dd_mean vs run
χ² / ndf 90.48 / 104
p0 −74.51 ± 91.37
pull
Entries 105
Mean 114.3
Std Dev 0

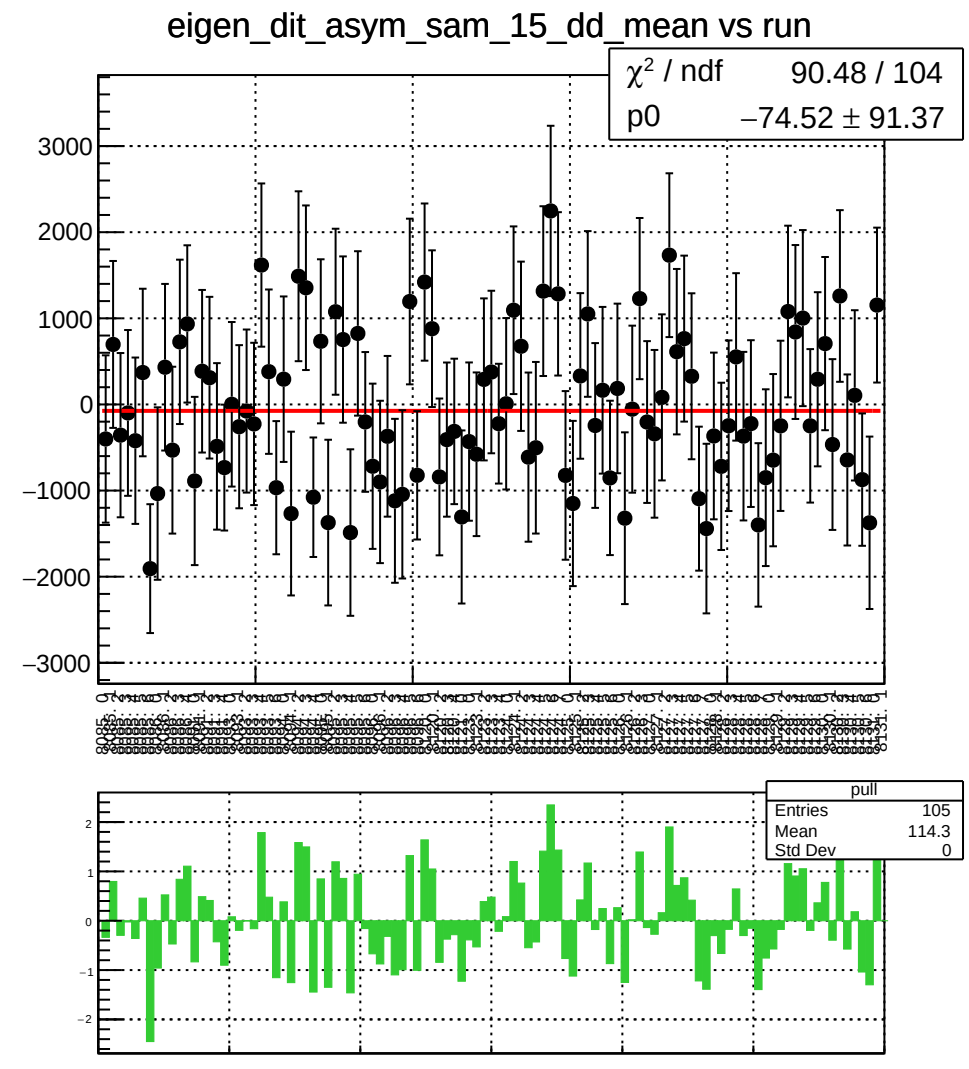

pull1D
Entries 105
Mean 0.02404
Std Dev 0.928

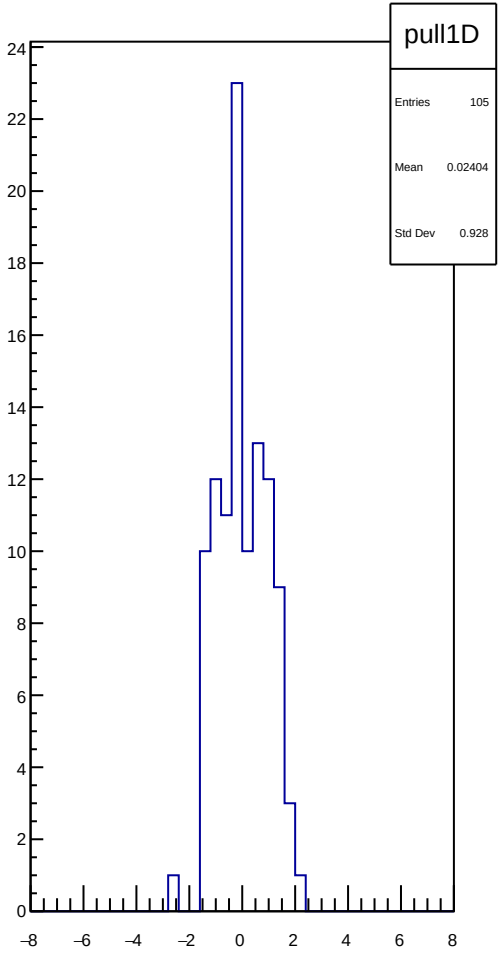

dit_asym_sam_15_dd_rms vs run
χ² / ndf 1257 / 104
p0 91.67 ± 0.06461
98
96
94
92
90
88
86
84

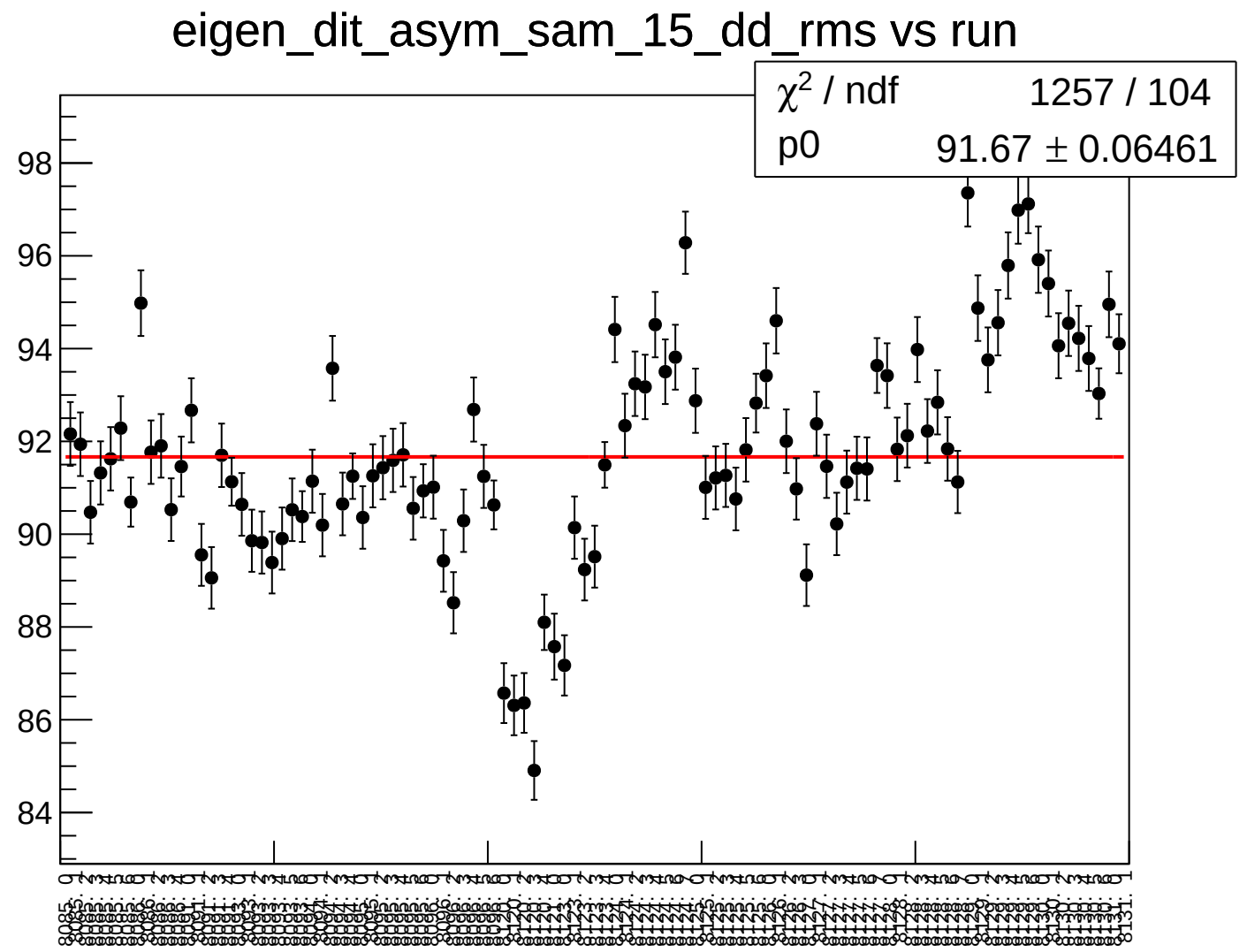

asym_sam_15_dd_dit_correction_mean vs run
χ² / ndf 96.27 / 105
p0 −54.43 ± 674.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 106
Mean −270.6
Std Dev 0
2
1
0
−1
−2

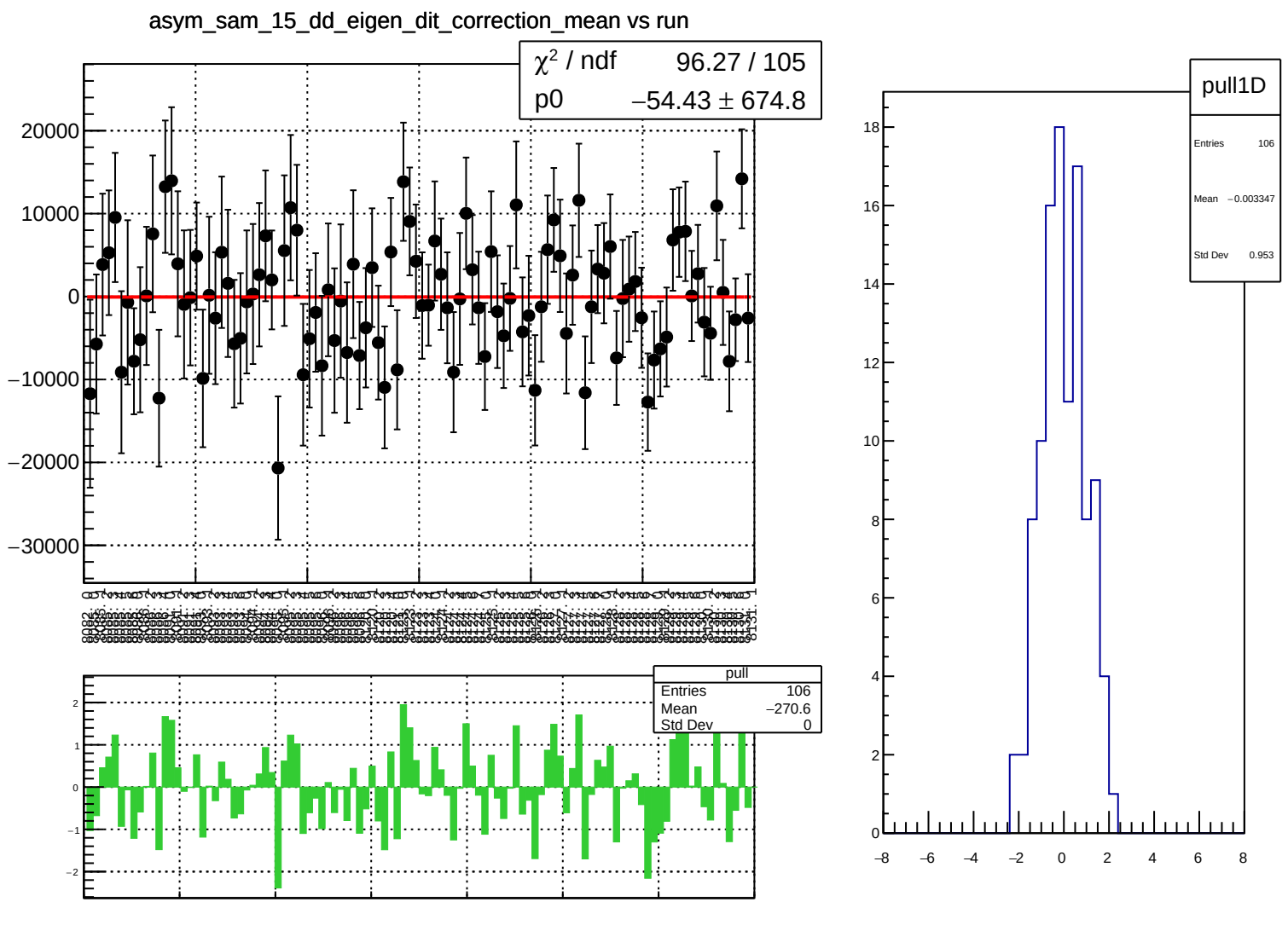

pull1D
Entries 106
Mean −0.003347
Std Dev 0.953
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

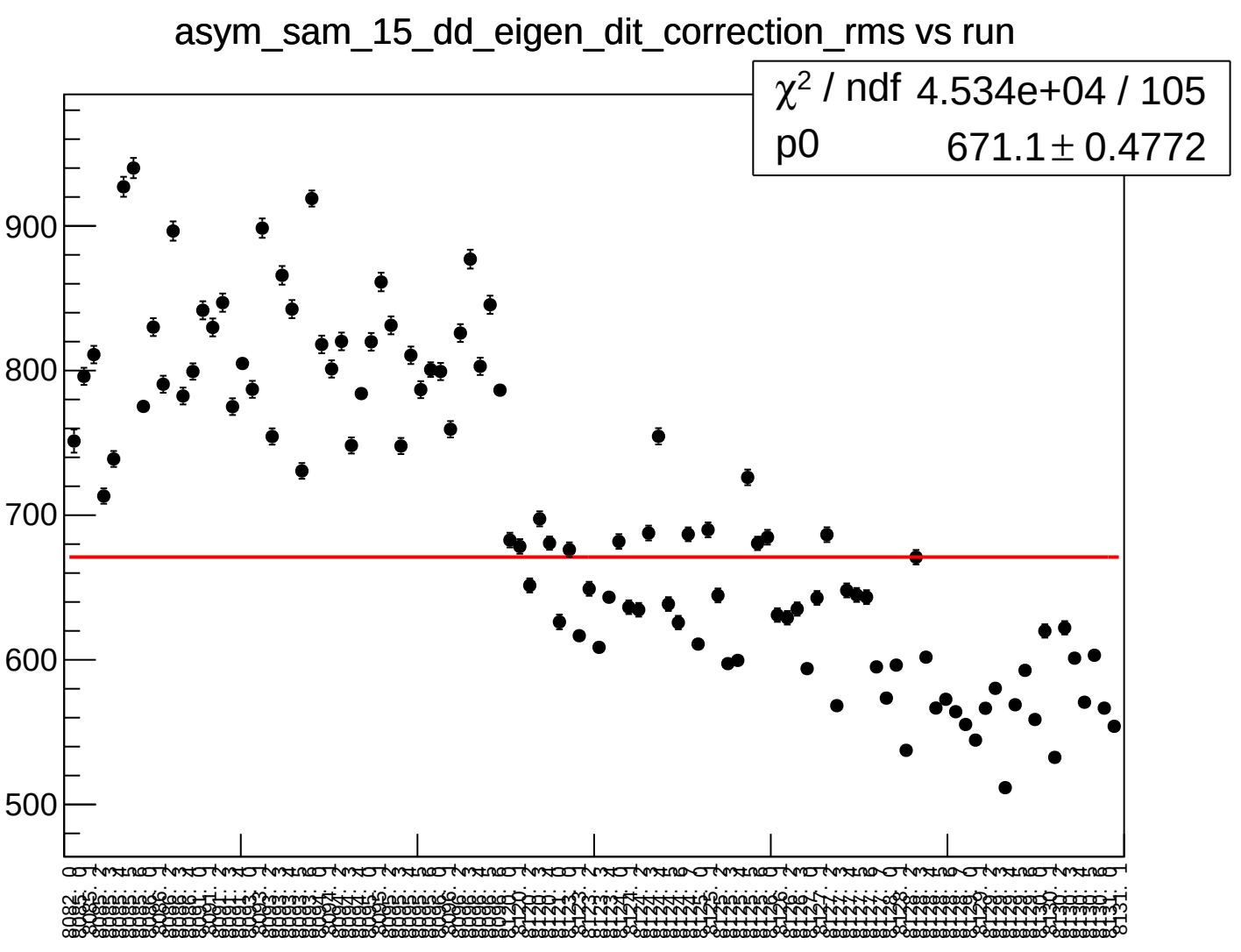

asym_sam_15_dd_dit_correction_rms vs run
χ² / ndf 4.534e+04 / 105
p0 671.1 ± 0.4772
900
800
700
600
500

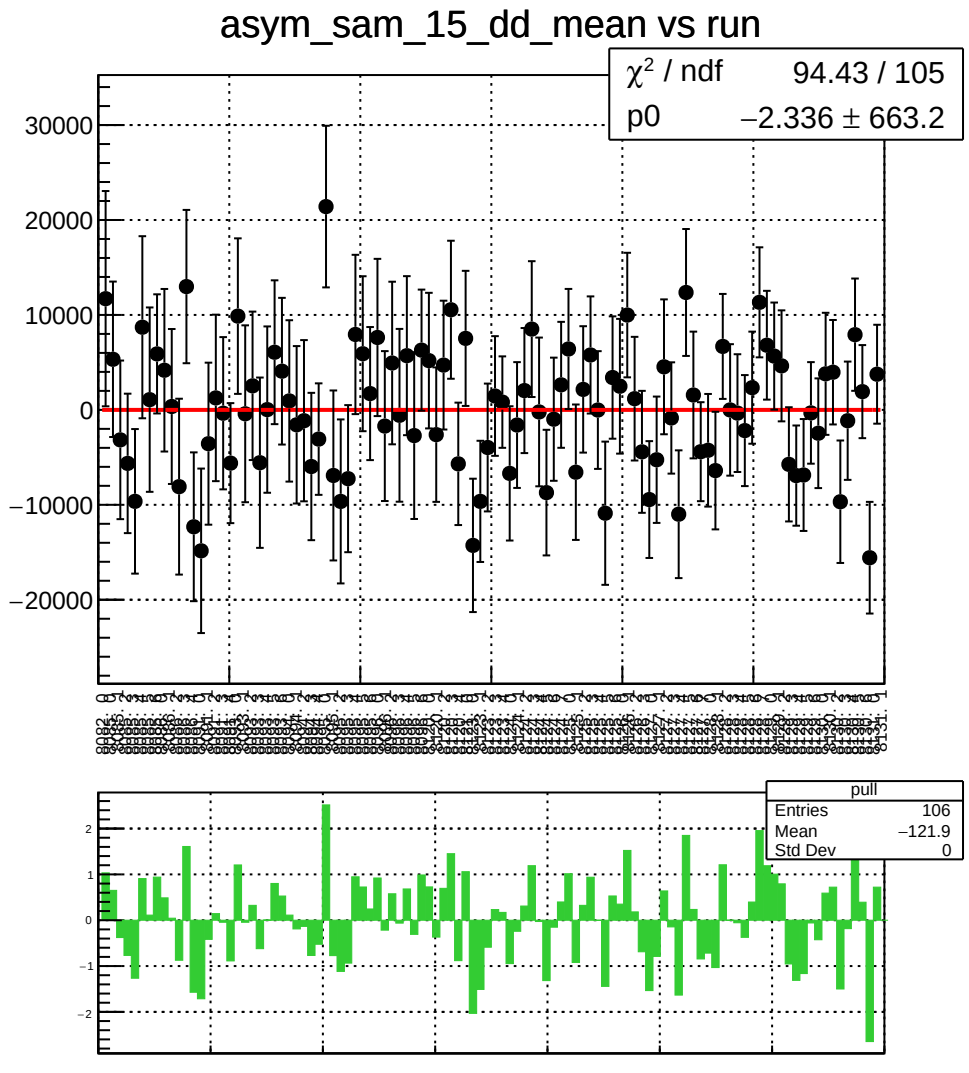

eigen_dit_asym_sam_15_dd_mean vs run
χ² / ndf 90.48 / 104
p0 −74.52 ± 91.37
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 105
Mean 114.3
Std Dev 0
2
1
0
−1
−2

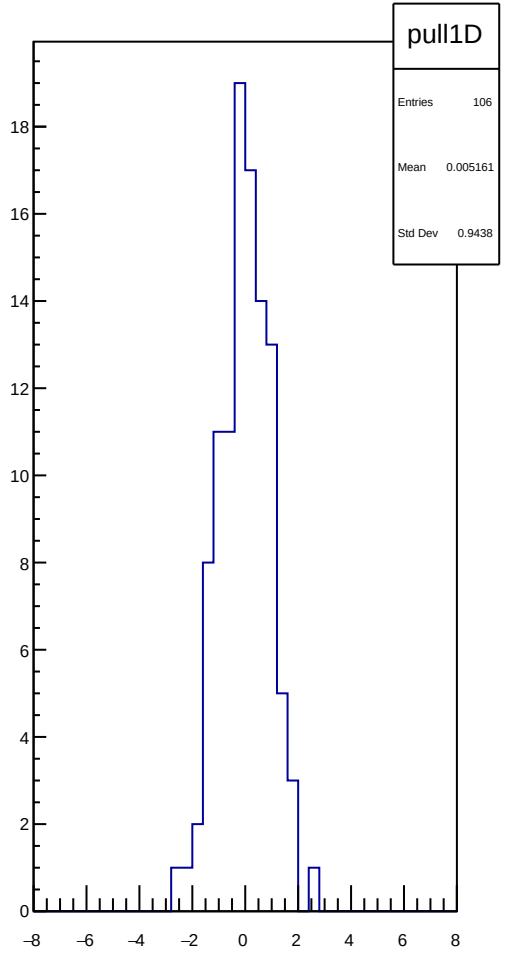

pull1D
Entries 105
Mean 0.02404
Std Dev 0.928
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

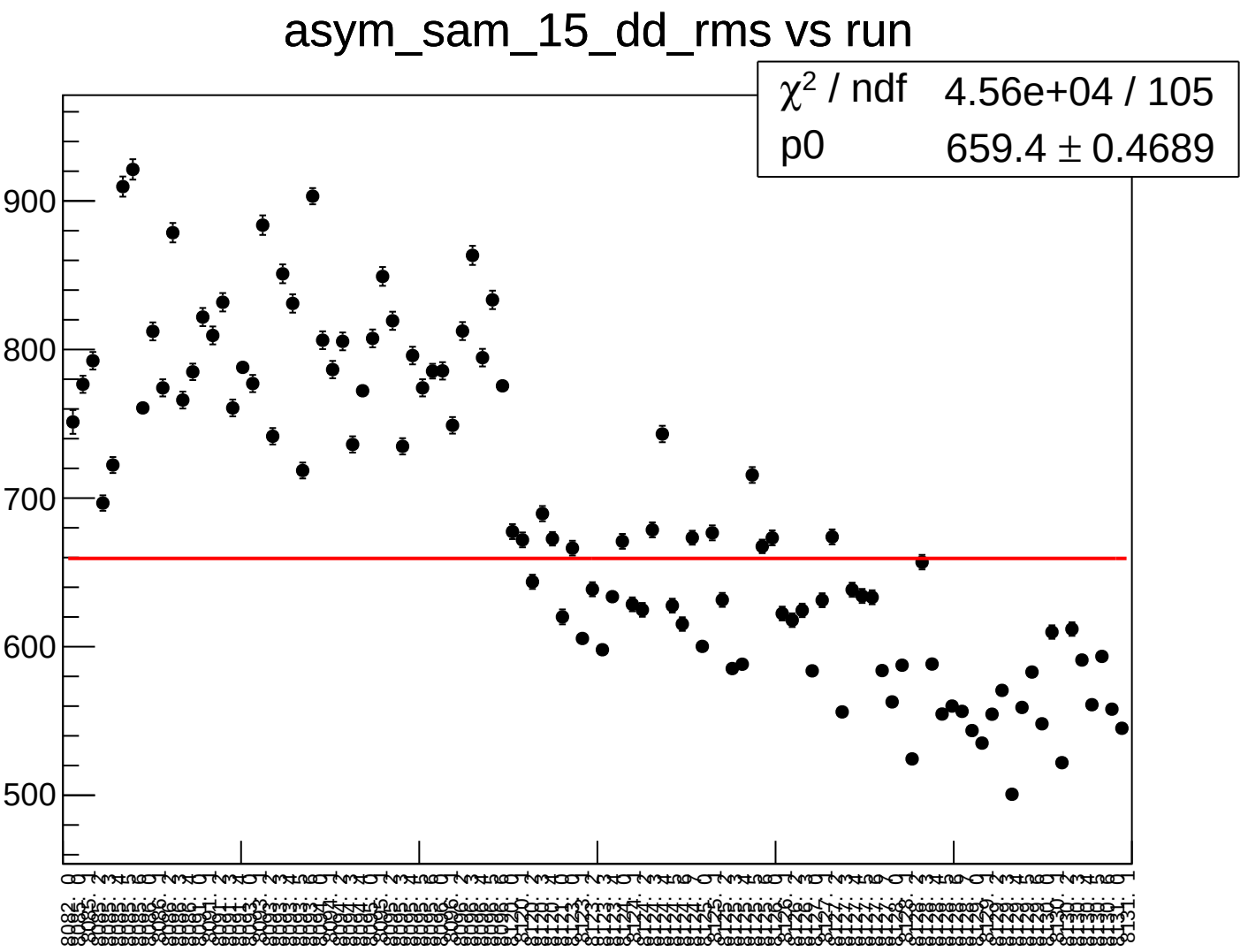

eigen_dit_asym_sam_15_dd_rms vs run
χ² / ndf 1257 / 104
p0 91.67 ± 0.06461
98
96
94
92
90
88
86
84

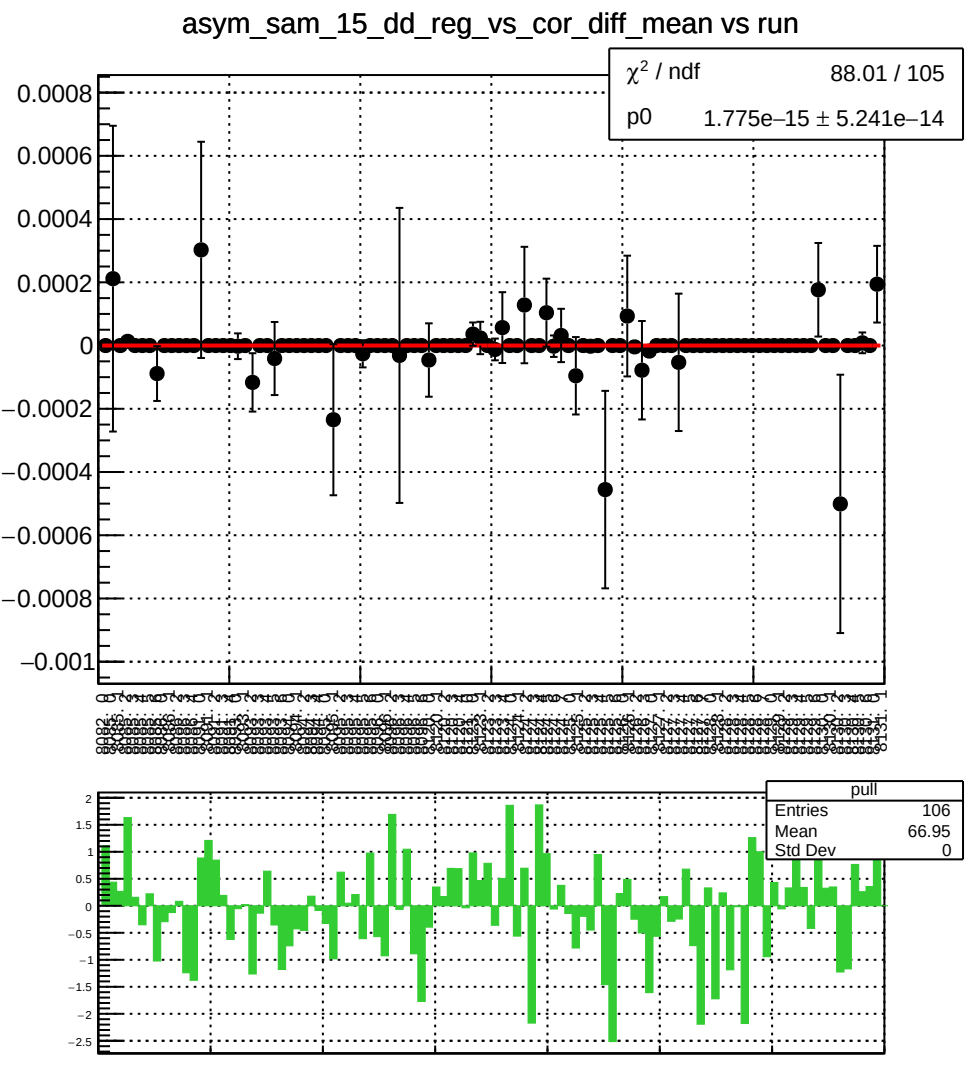

asym_sam_15_dd_eigen_dit_correction_mean vs run
χ² / ndf 96.27 / 105
p0 −54.43 ± 674.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 106
Mean −270.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 106
Mean −0.003347
Std Dev 0.953
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

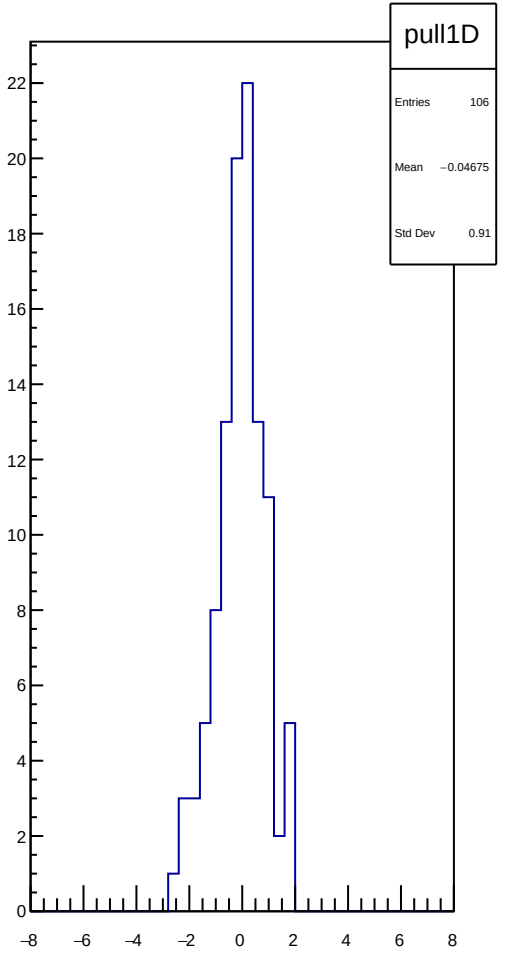

asym_sam_15_dd_eigen_dit_correction_rms vs run
$\chi^2$ / ndf 4.534e+04 / 105
p0 671.1 ± 0.4772
900
800
700
600
500

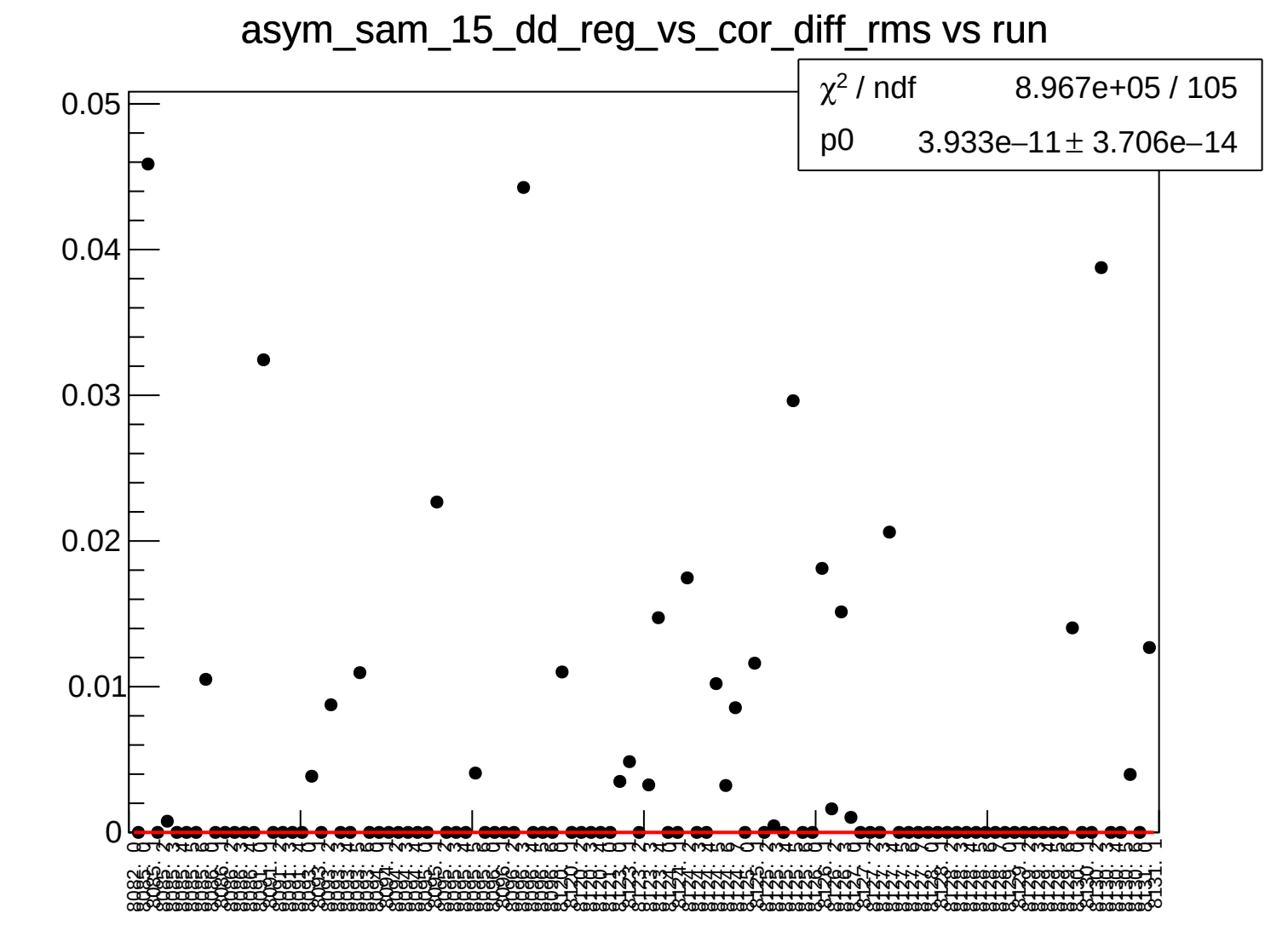

asym_sam_15_dd_mean vs run
χ² / ndf 94.43 / 105
p0 −2.336 ± 663.2
30000
20000
10000
0
−10000
−20000
pull
Entries 106
Mean −121.9
Std Dev 0
2
1
0
−1
−2

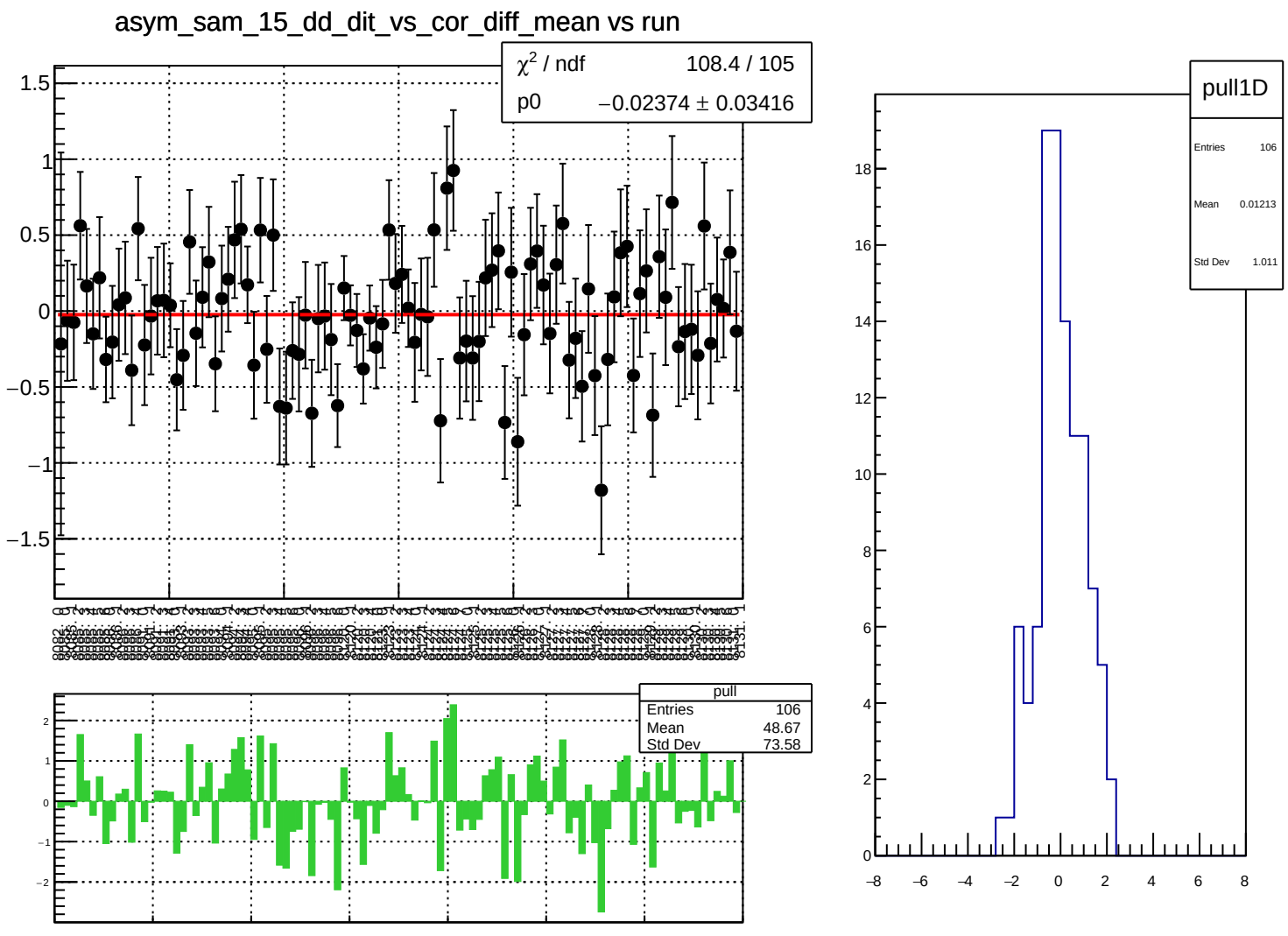

pull1D
Entries 106
Mean 0.005161
Std Dev 0.9438
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

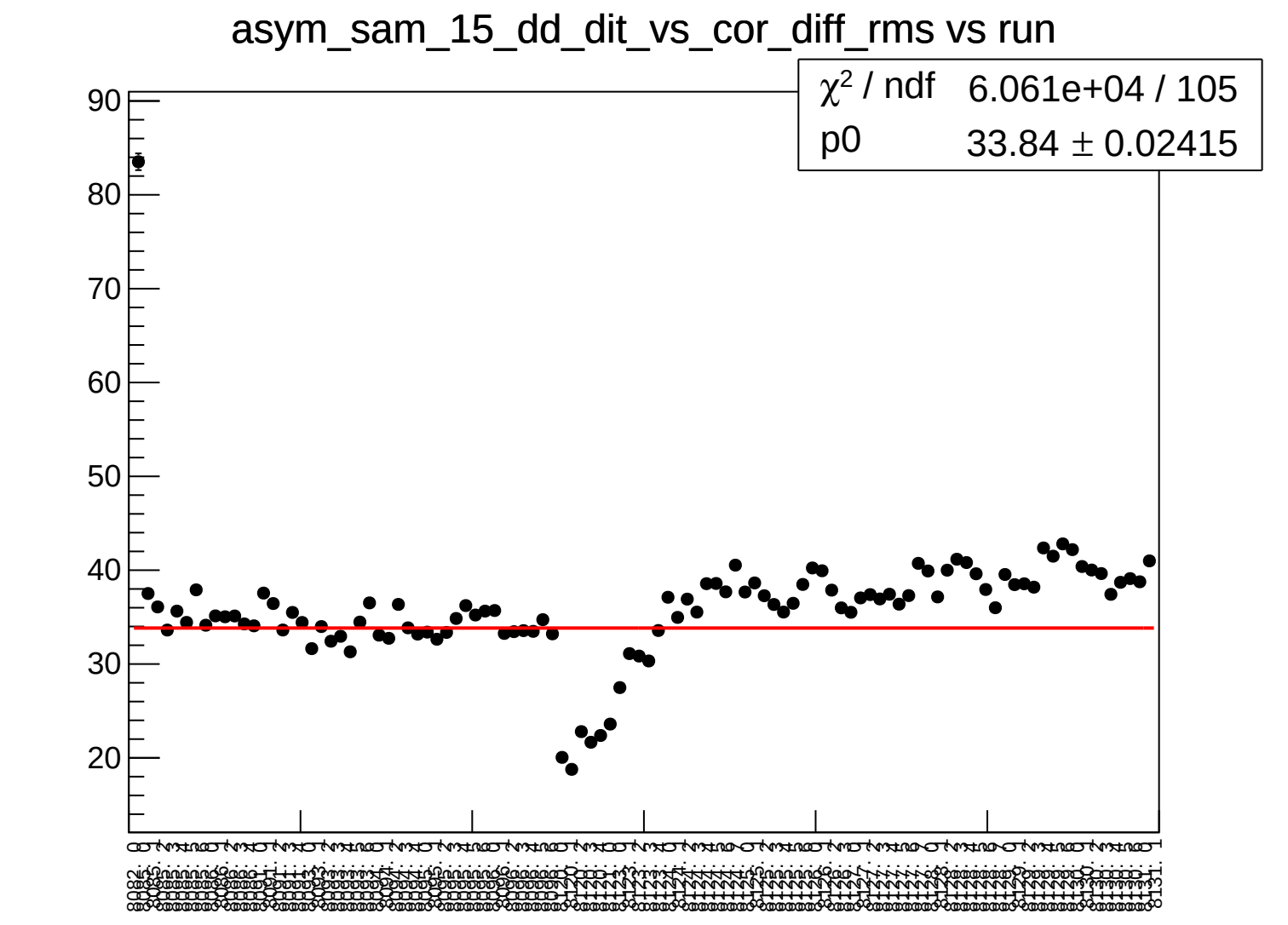

asym_sam_15_dd_rms vs run
χ² / ndf 4.56e+04 / 105
p0 659.4 ± 0.4689
900
800
700
600
500

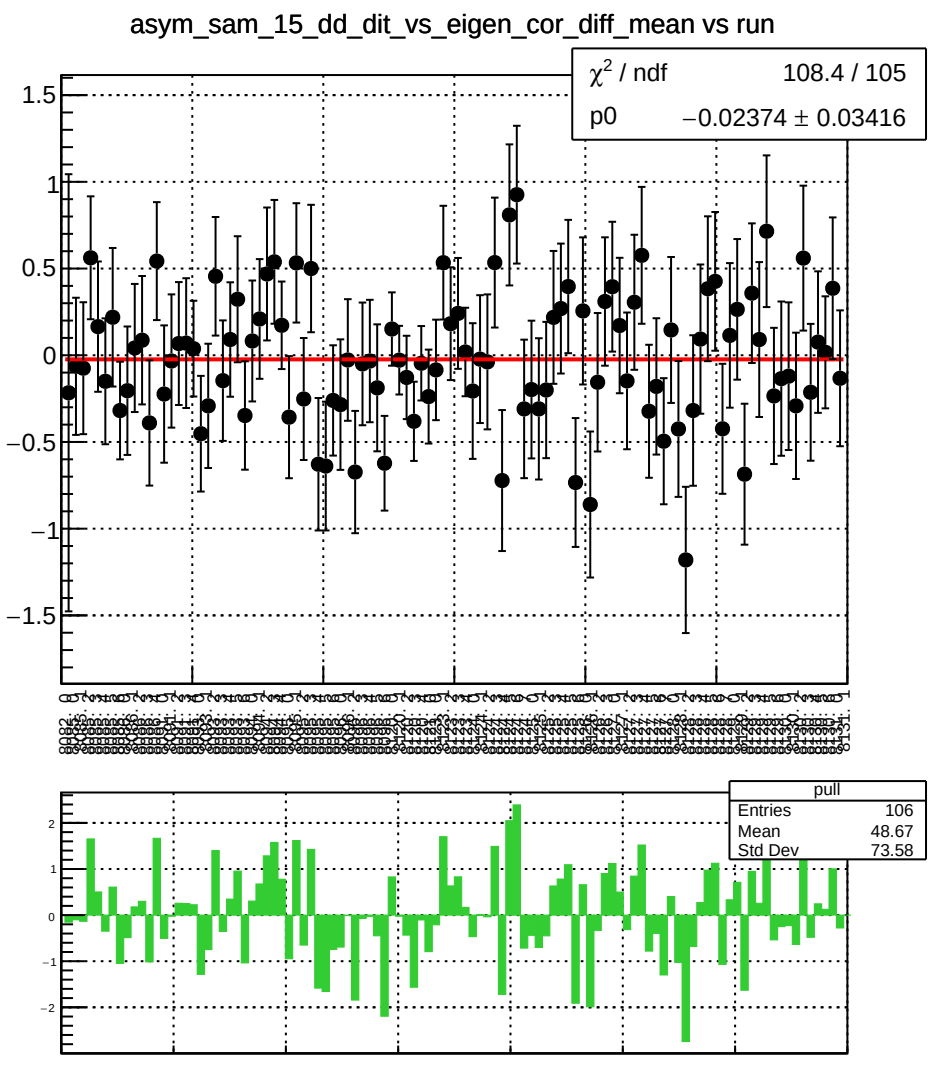

asym_sam_15_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 88.01 / 105
p0 1.775e−15 ± 5.241e−14
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 106
Mean 66.95
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

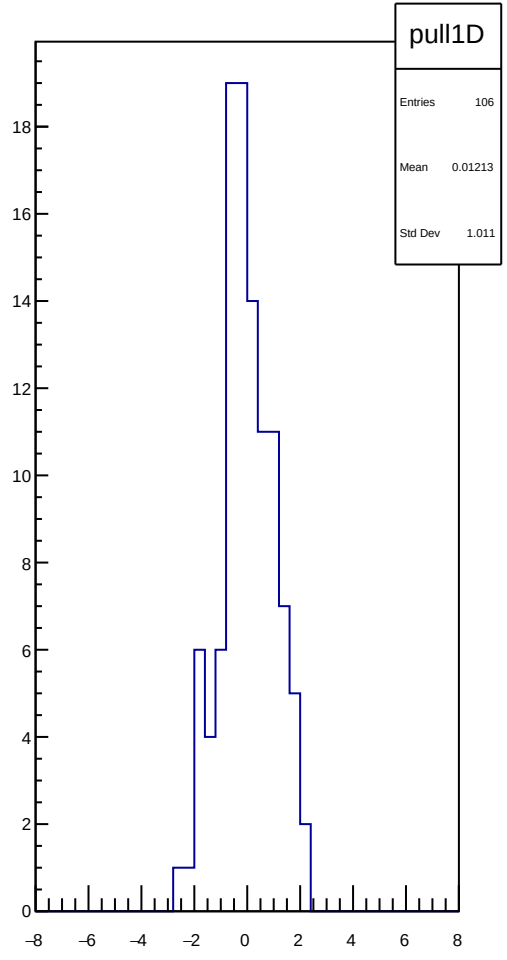

pull1D
Entries 106
Mean −0.04675
Std Dev 0.91
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

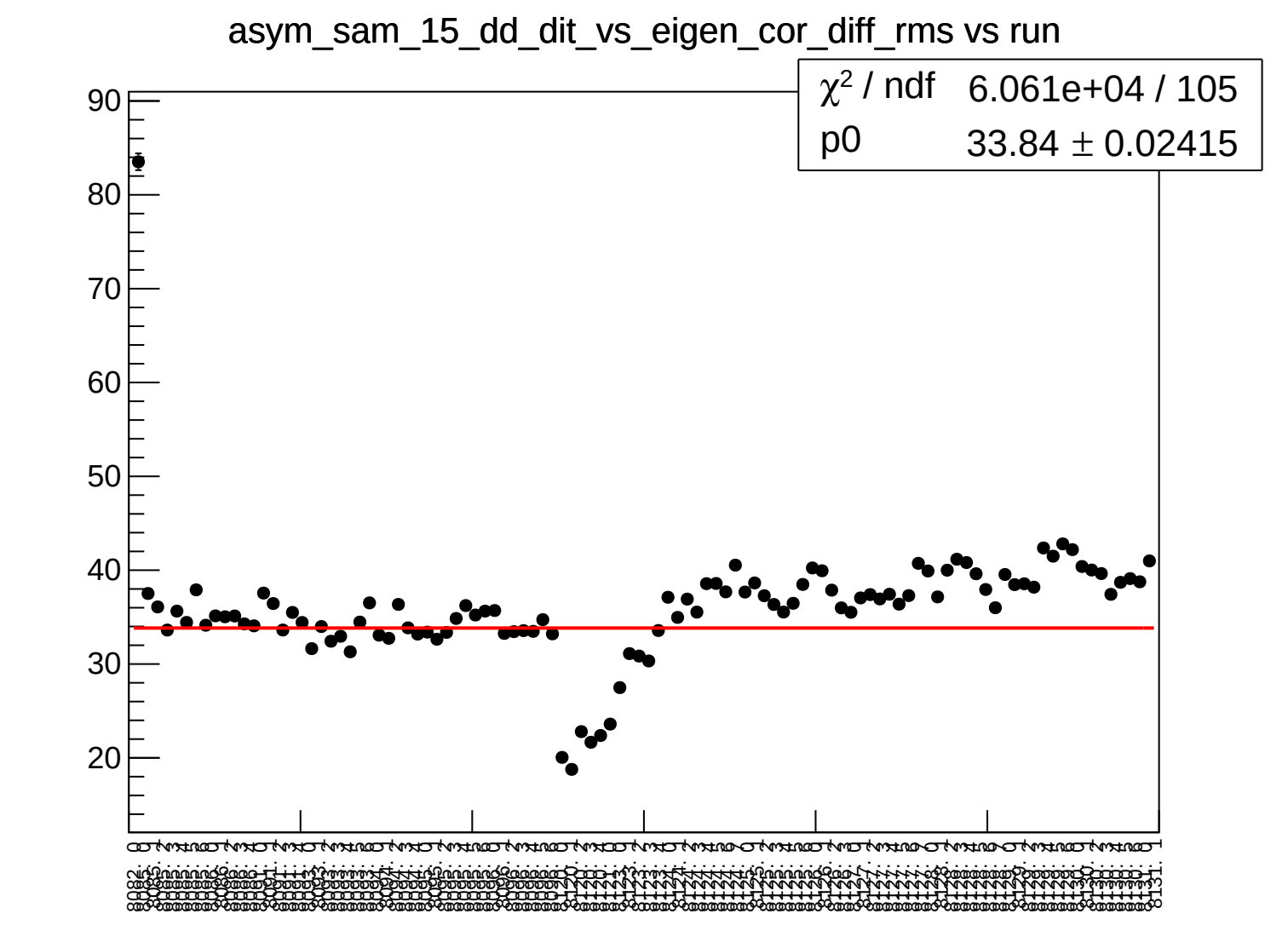

asym_sam_15_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.967e+05 / 105
p0 3.933e−11 ± 3.706e−14
0.05
0.04
0.03
0.02
0.01
0

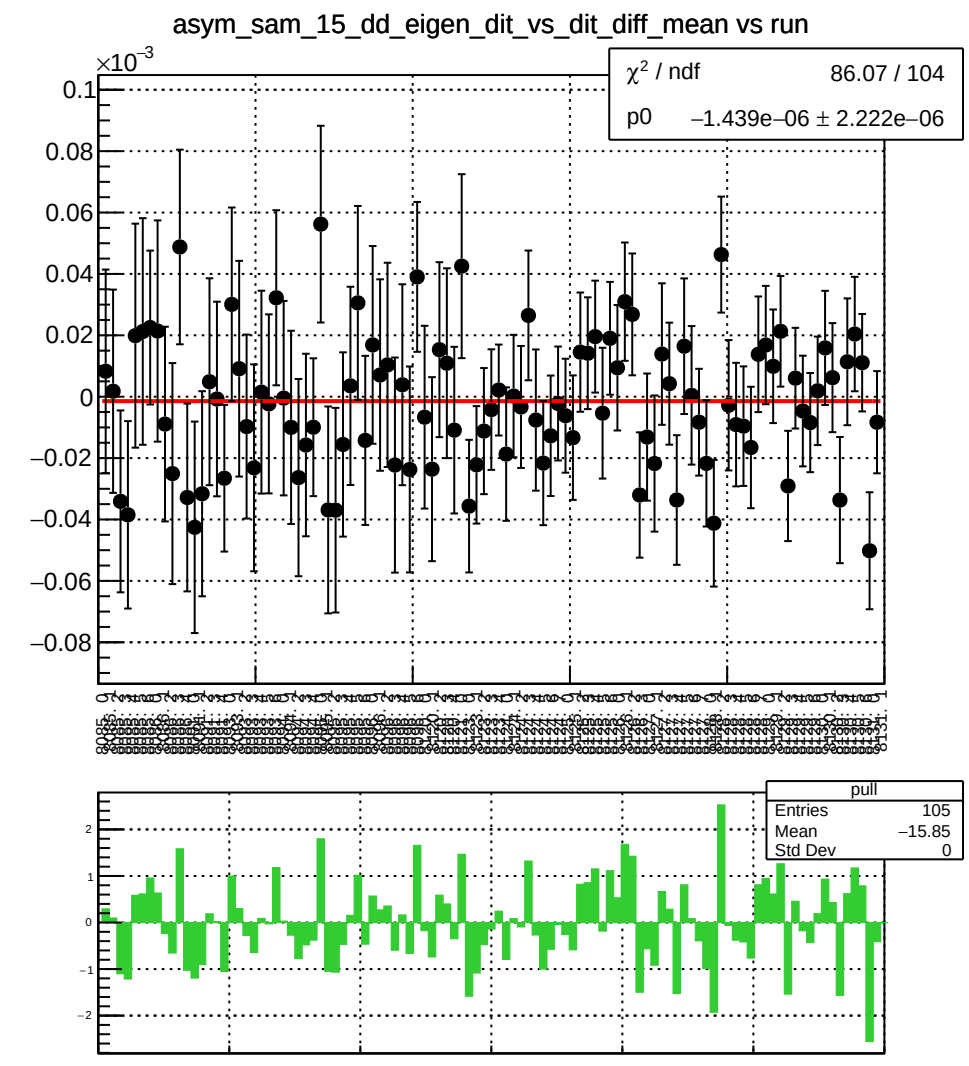

asym_sam_15_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 108.4 / 105
p0 −0.02374 ± 0.03416
pull
Entries 106
Mean 48.67
Std Dev 73.58
pull1D
Entries 106
Mean 0.01213
Std Dev 1.011

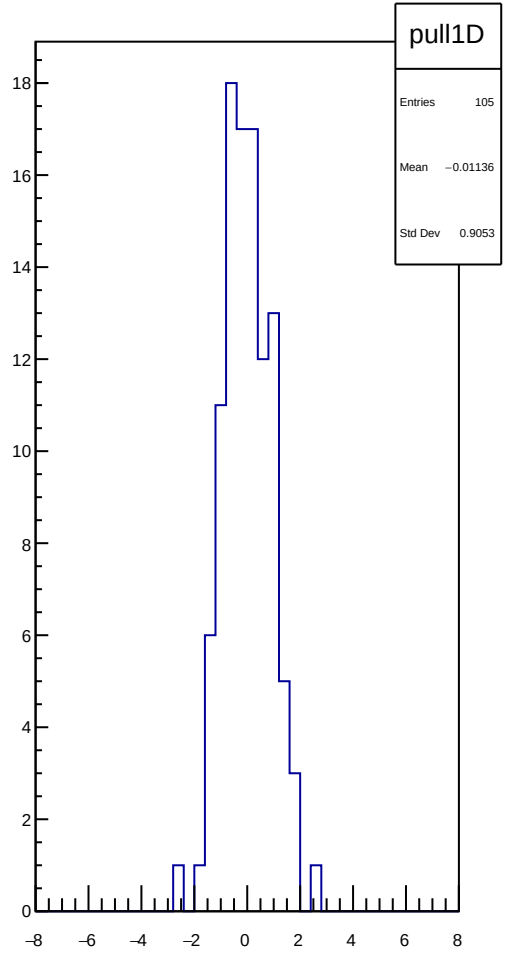

asym_sam_15_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.061e+04 / 105
p0 33.84 ± 0.02415
90
80
70
60
50
40
30
20

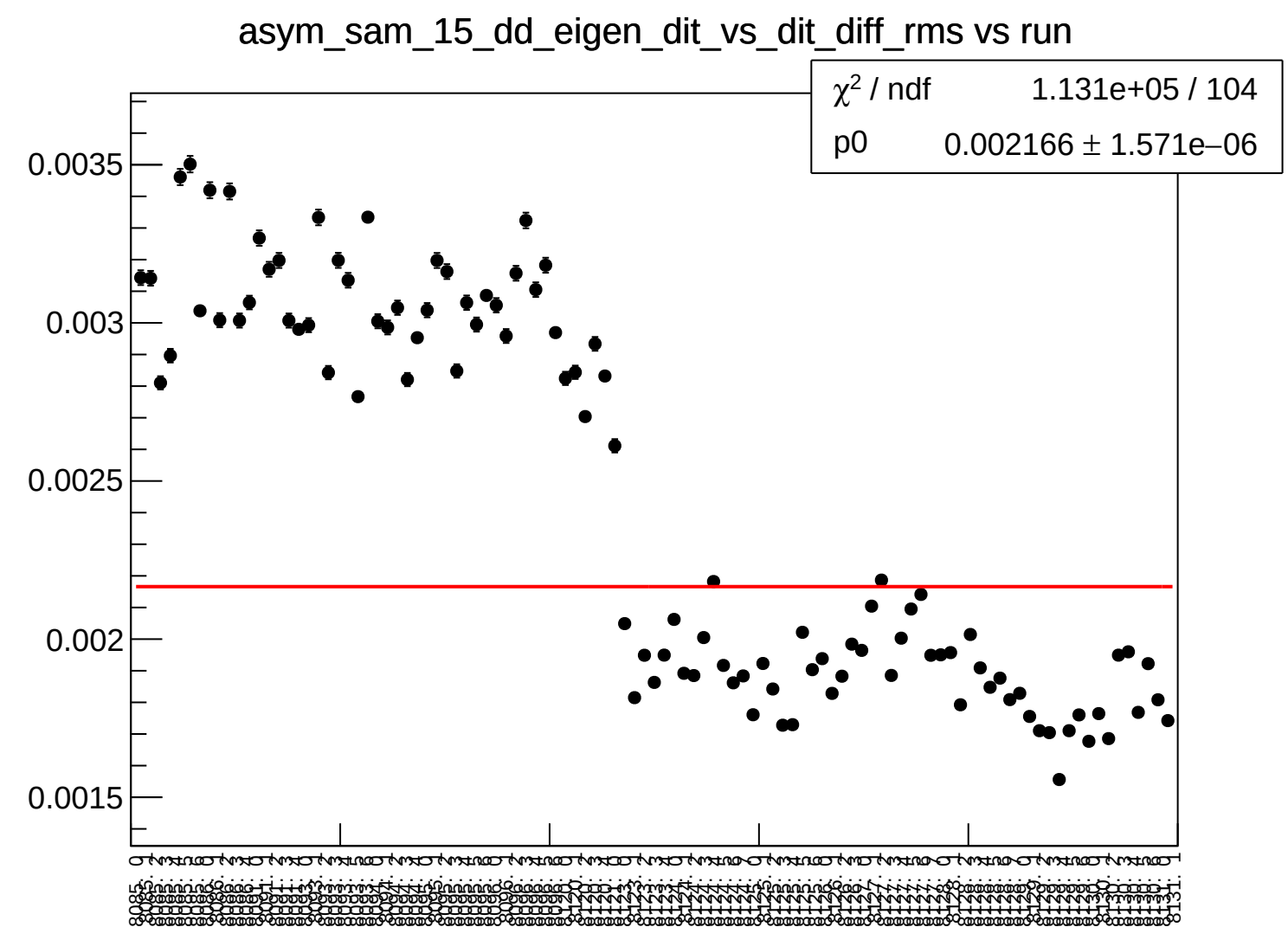

asym_sam_15_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 108.4 / 105
p0 −0.02374 ± 0.03416
pull
Entries 106
Mean 48.67
Std Dev 73.58

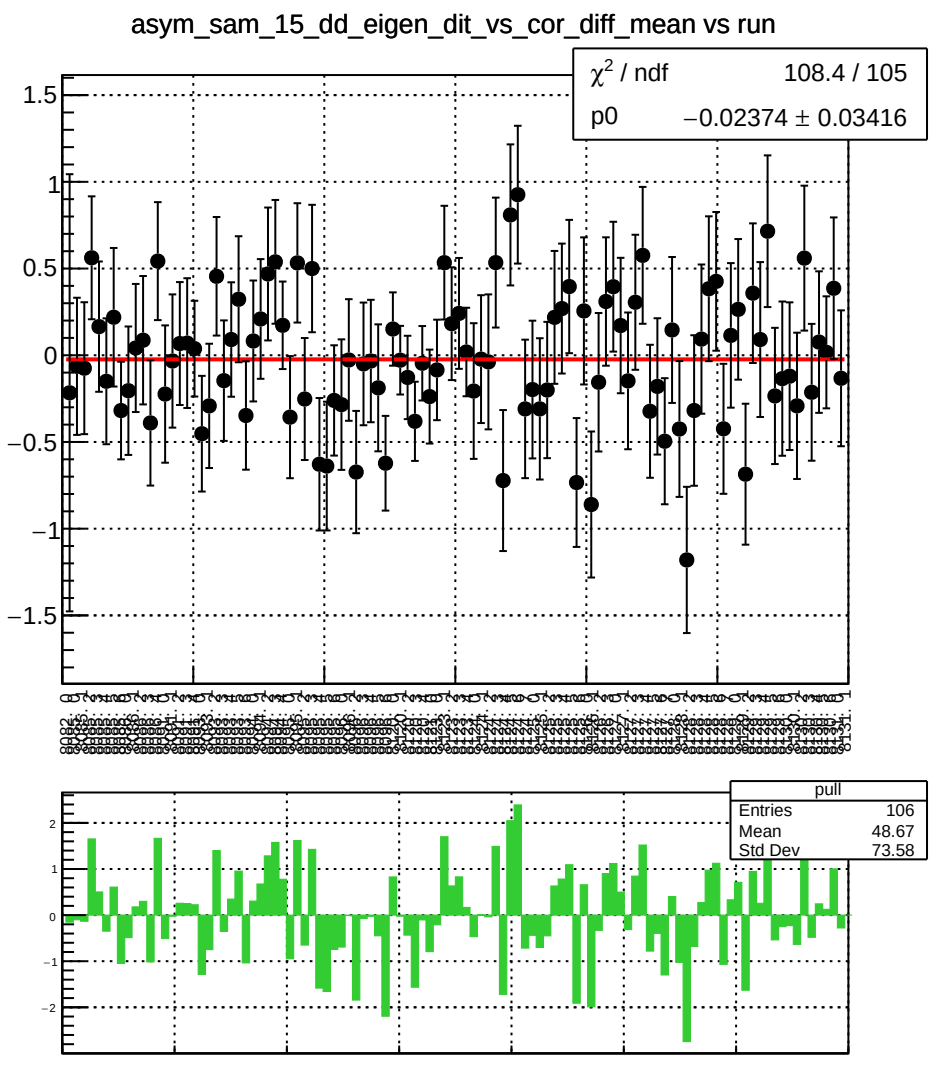

pull1D
Entries 106
Mean 0.01213
Std Dev 1.011

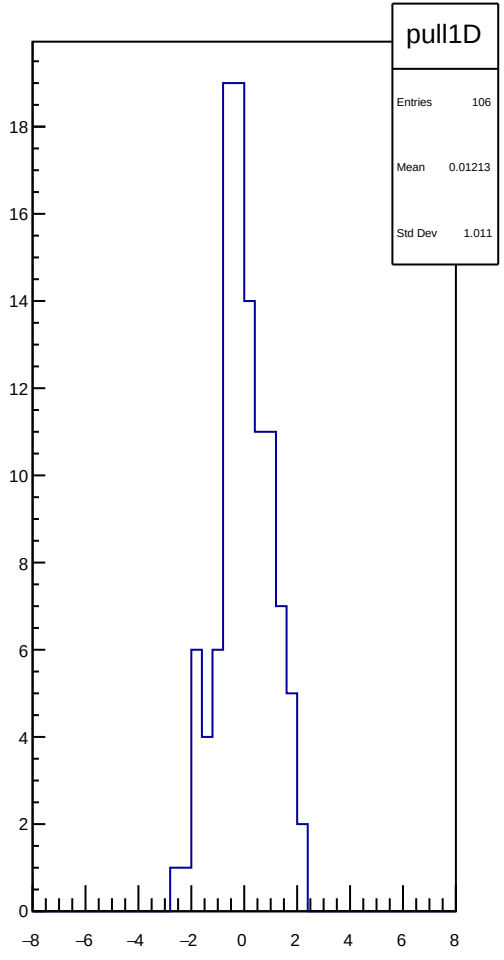

asym_sam_15_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.061e+04 / 105
p0 33.84 ± 0.02415
90
80
70
60
50
40
30
20

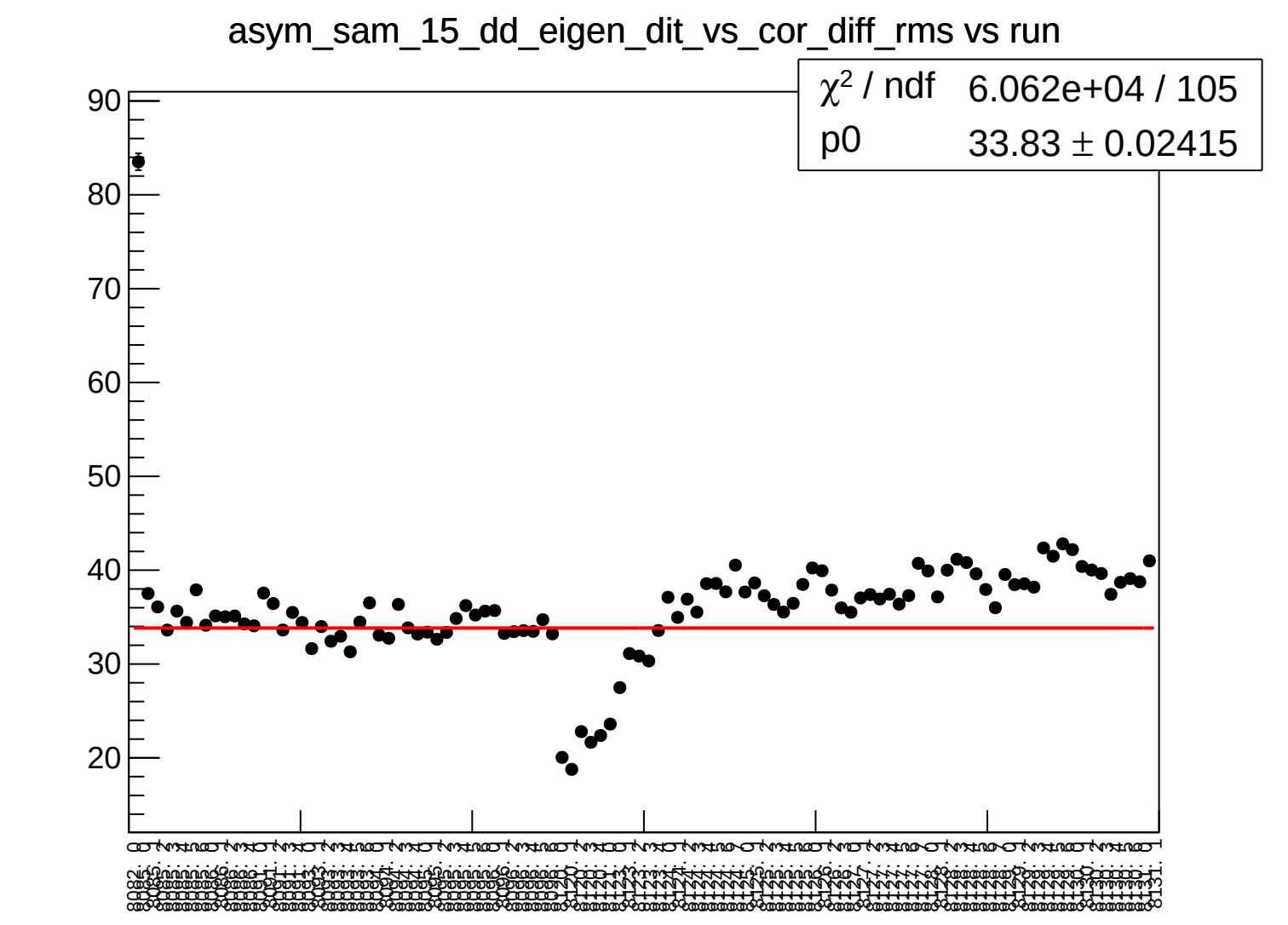

asym_sam_15_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 86.07 / 104
p0 −1.439e−06 ± 2.222e−06
pull
Entries 105
Mean −15.85
Std Dev 0

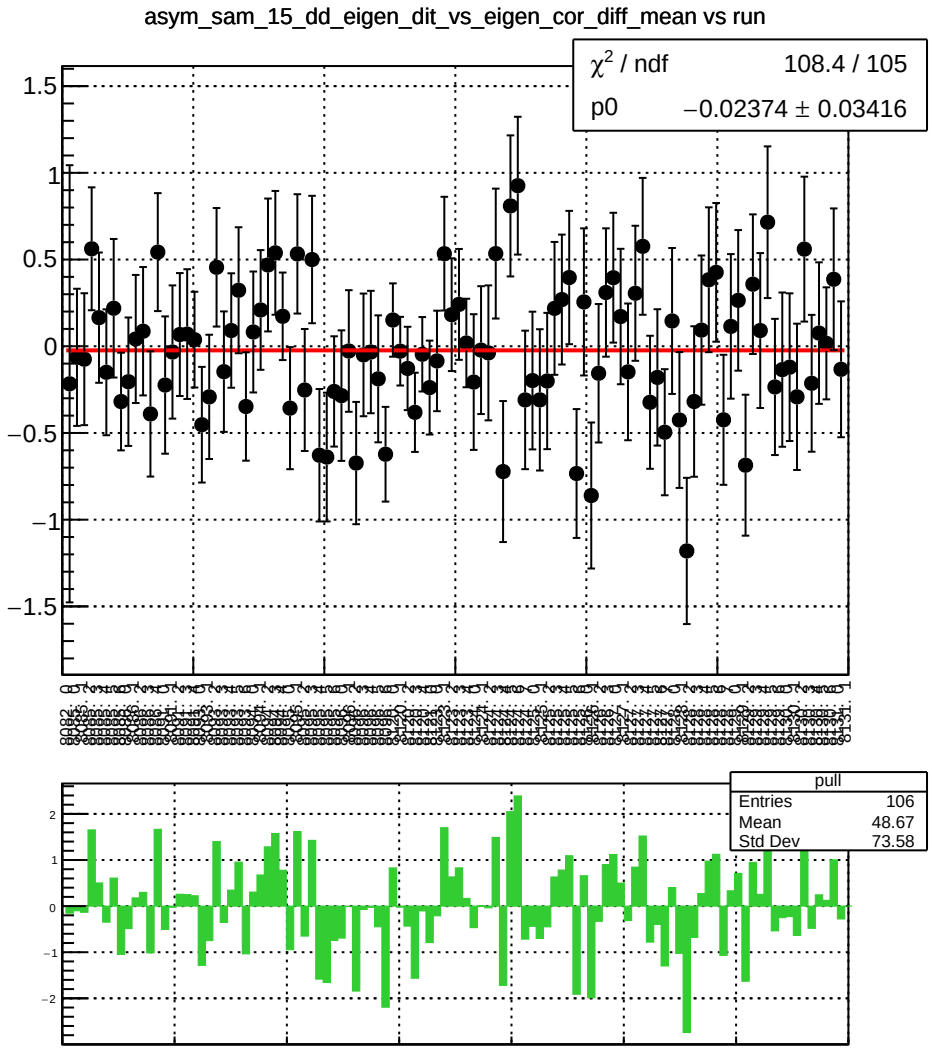

pull1D
Entries 105
Mean −0.01136
Std Dev 0.9053

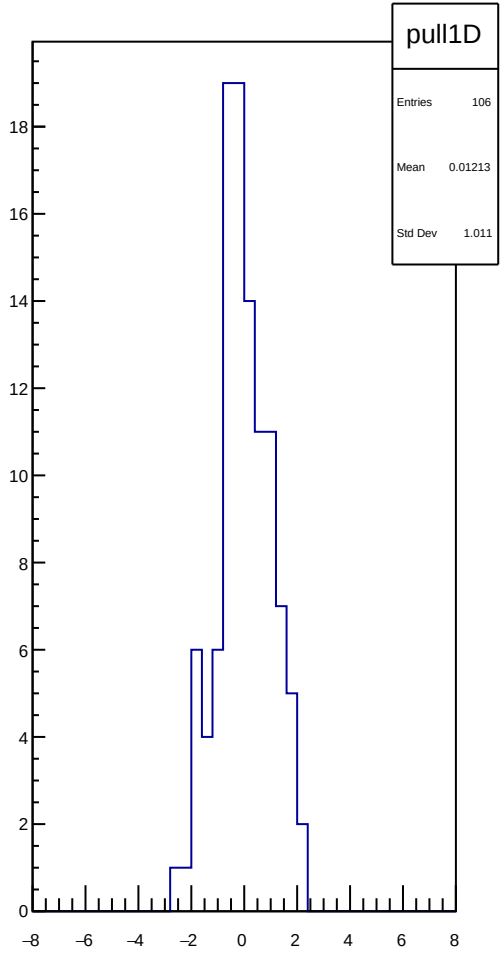

asym_sam_15_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.131e+05 / 104
p0 0.002166 ± 1.571e−06
0.0035
0.003
0.0025
0.002
0.0015

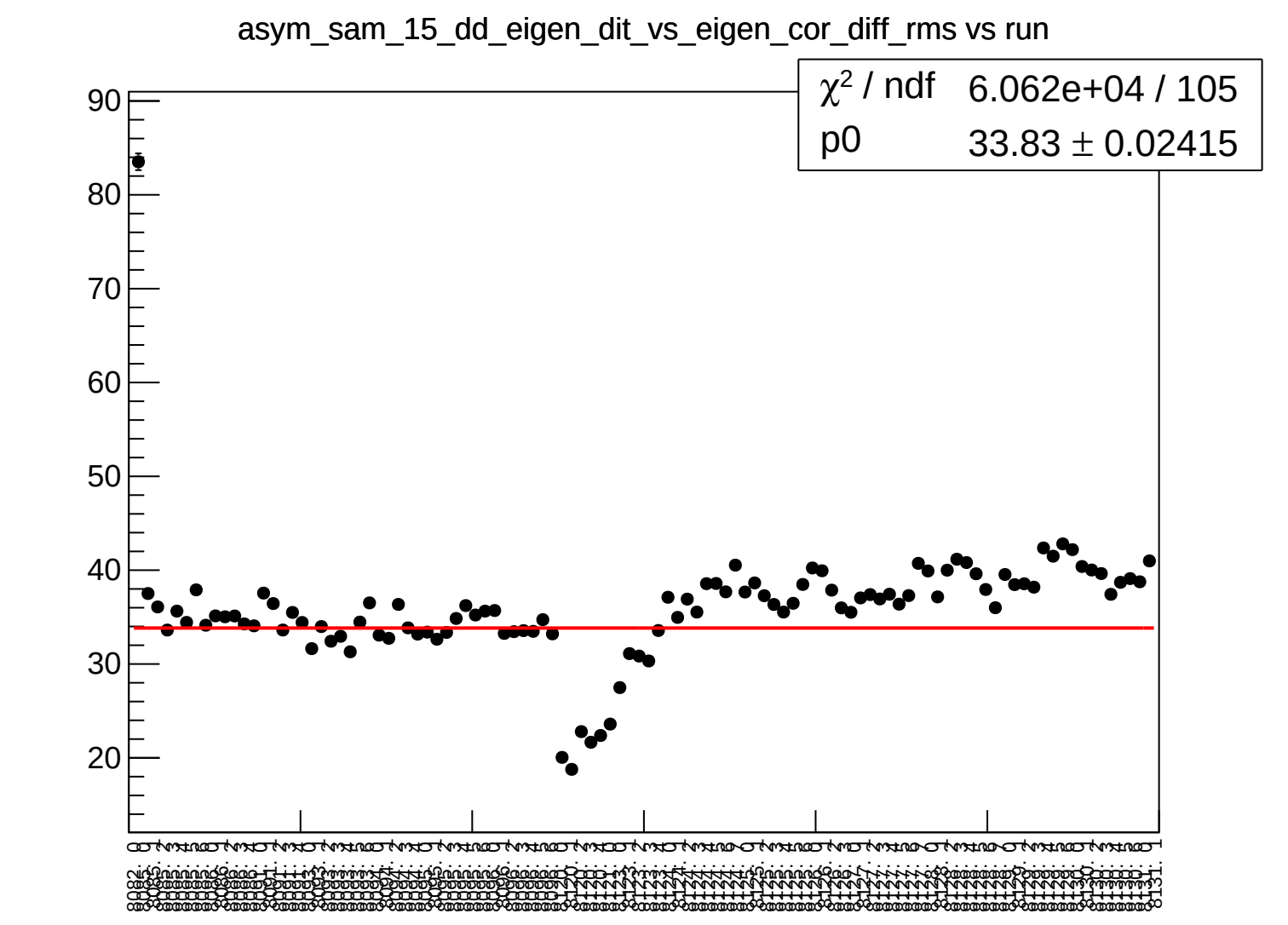

asym_sam_15_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 108.4 / 105
p0 −0.02374 ± 0.03416
pull
Entries 106
Mean 48.67
Std Dev 73.58

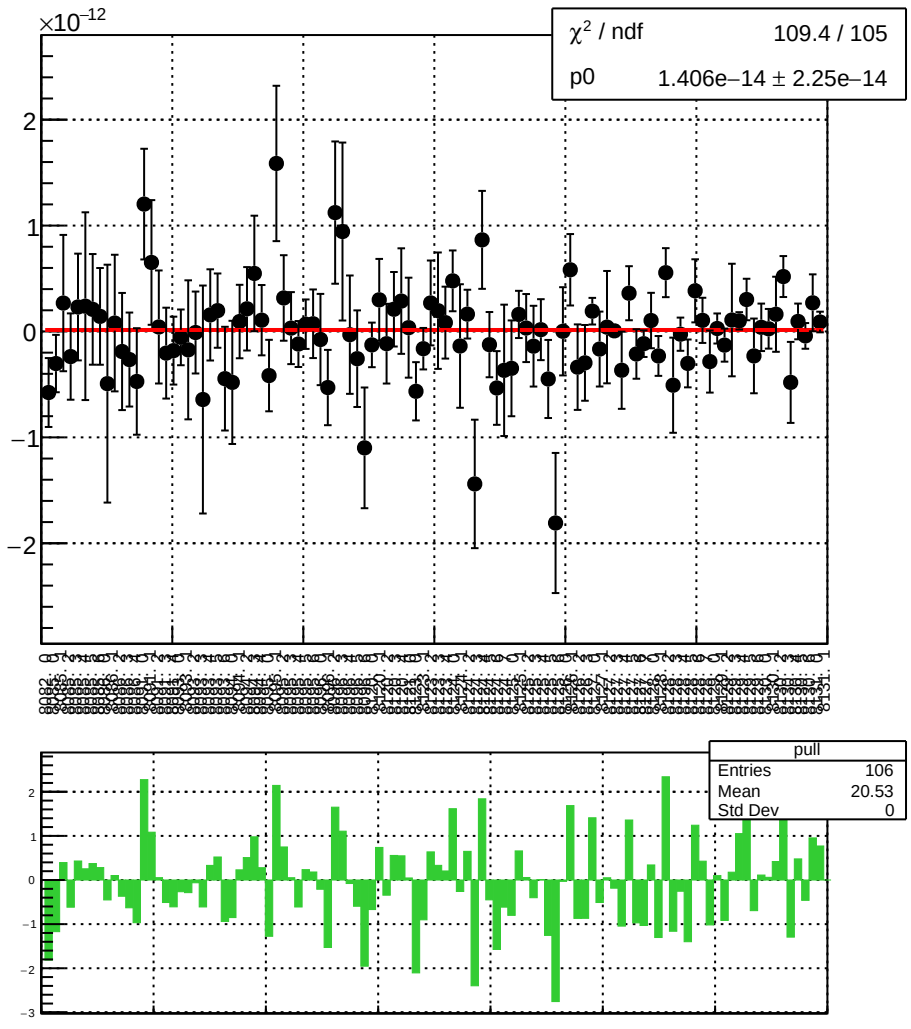

pull1D
Entries 106
Mean 0.01213
Std Dev 1.011

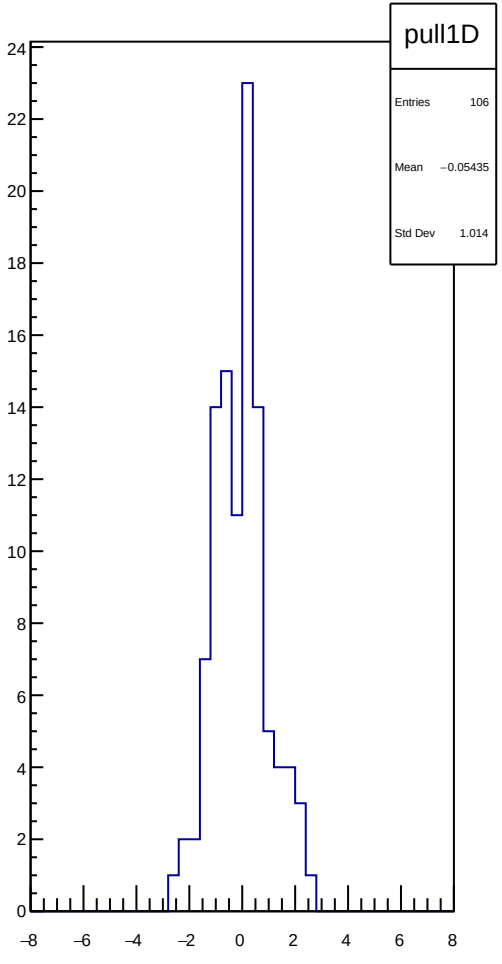

asym_sam_15_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.062e+04 / 105
p0 33.83 ± 0.02415
90
80
70
60
50
40
30
20

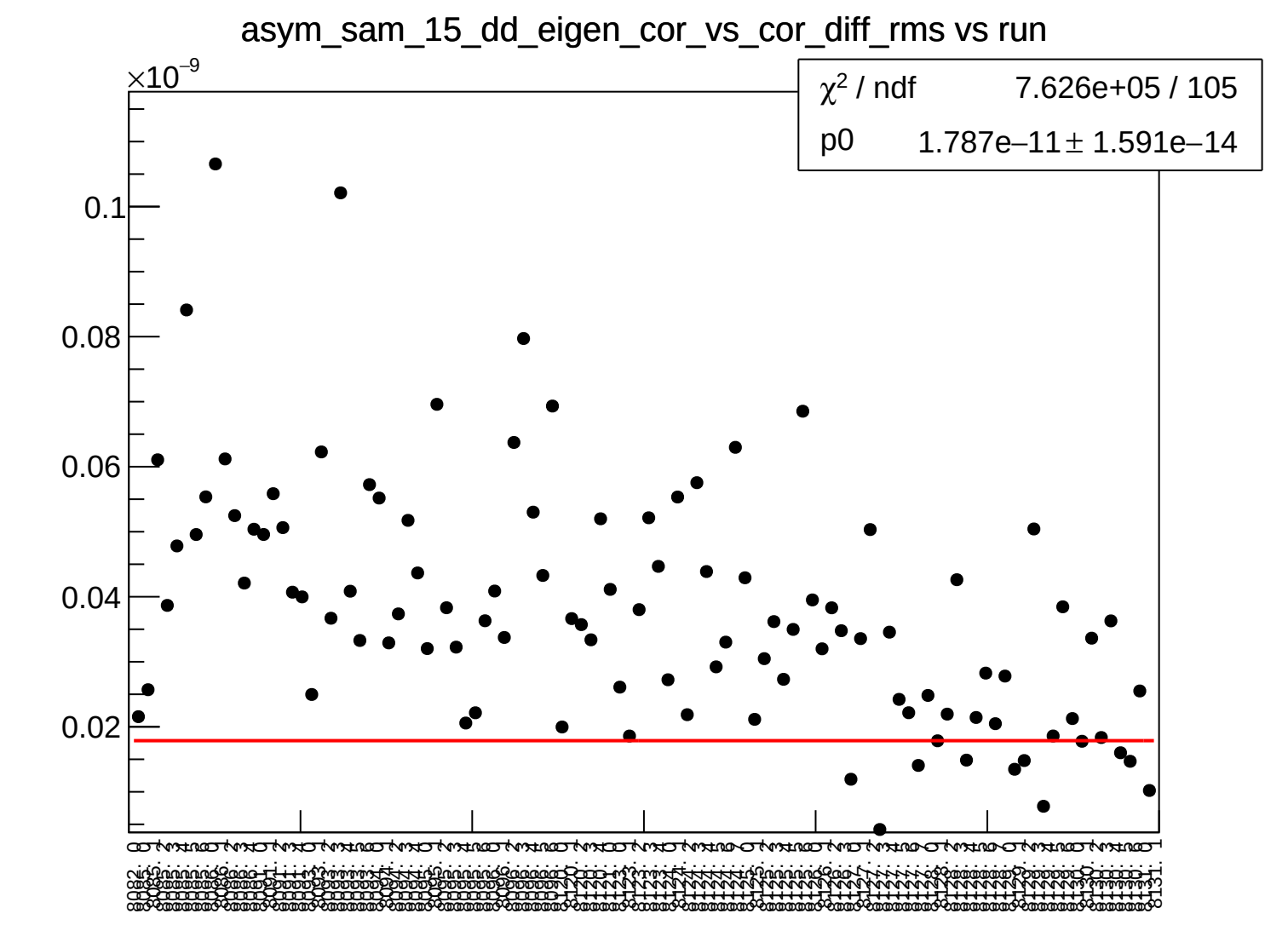

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 108.4 / 105
p0 −0.02374 ± 0.03416
pull
Entries 106
Mean 48.67
Std Dev 73.58

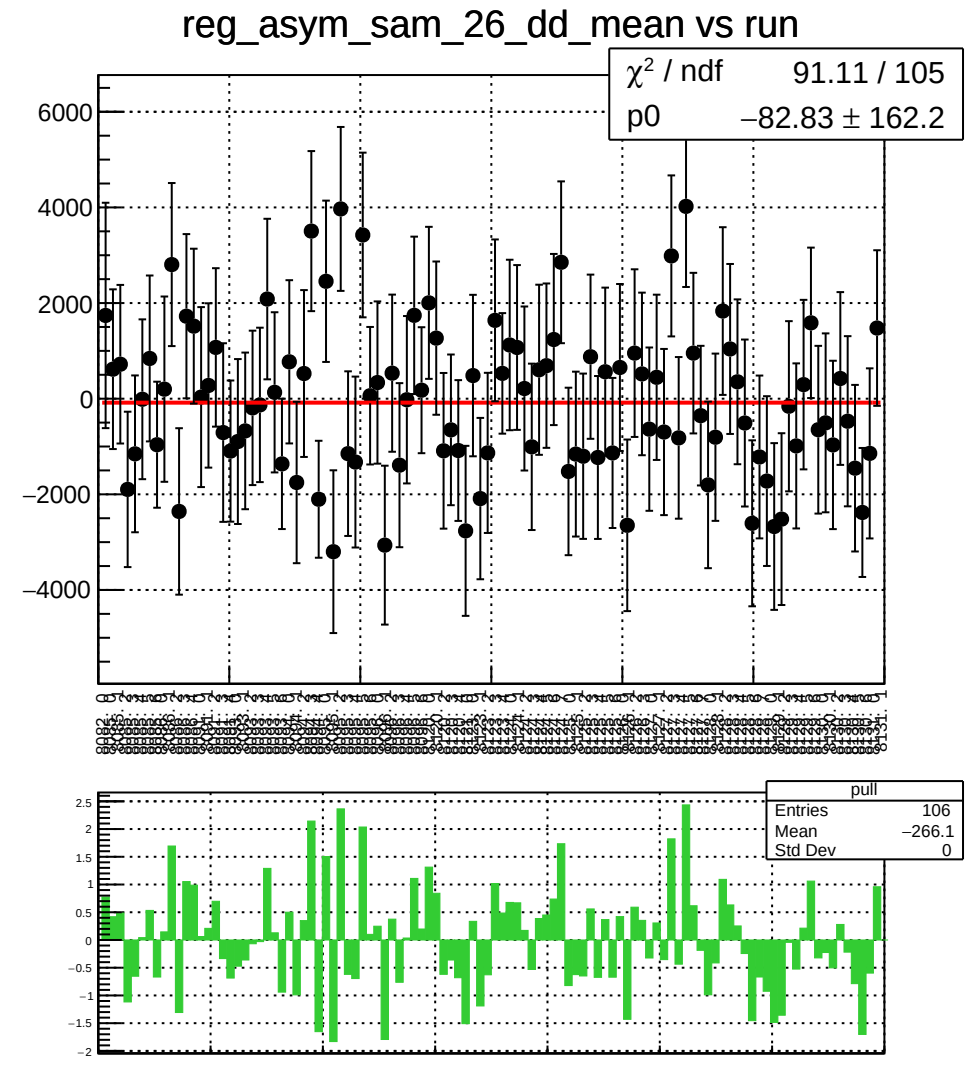

pull1D
Entries 106
Mean 0.01213
Std Dev 1.011

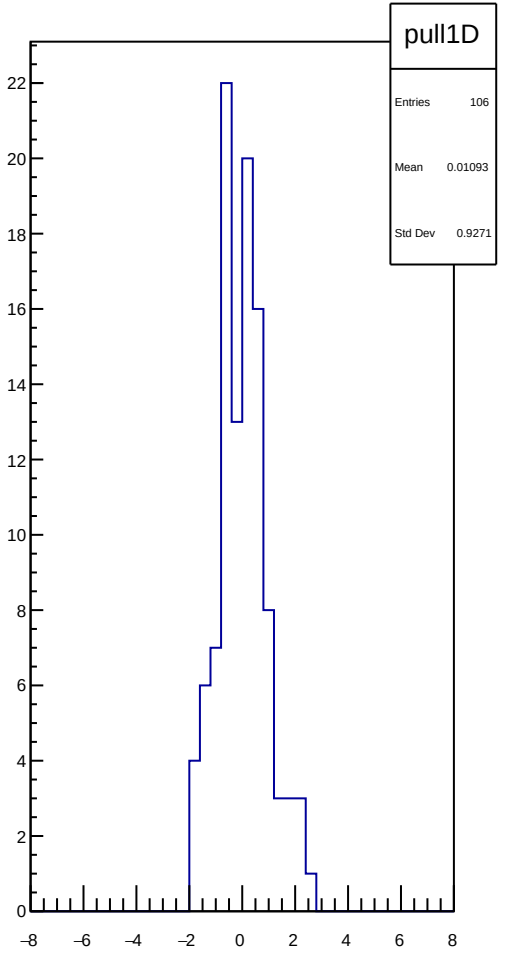

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.062e+04 / 105
p0 33.83 ± 0.02415
90
80
70
60
50
40
30
20

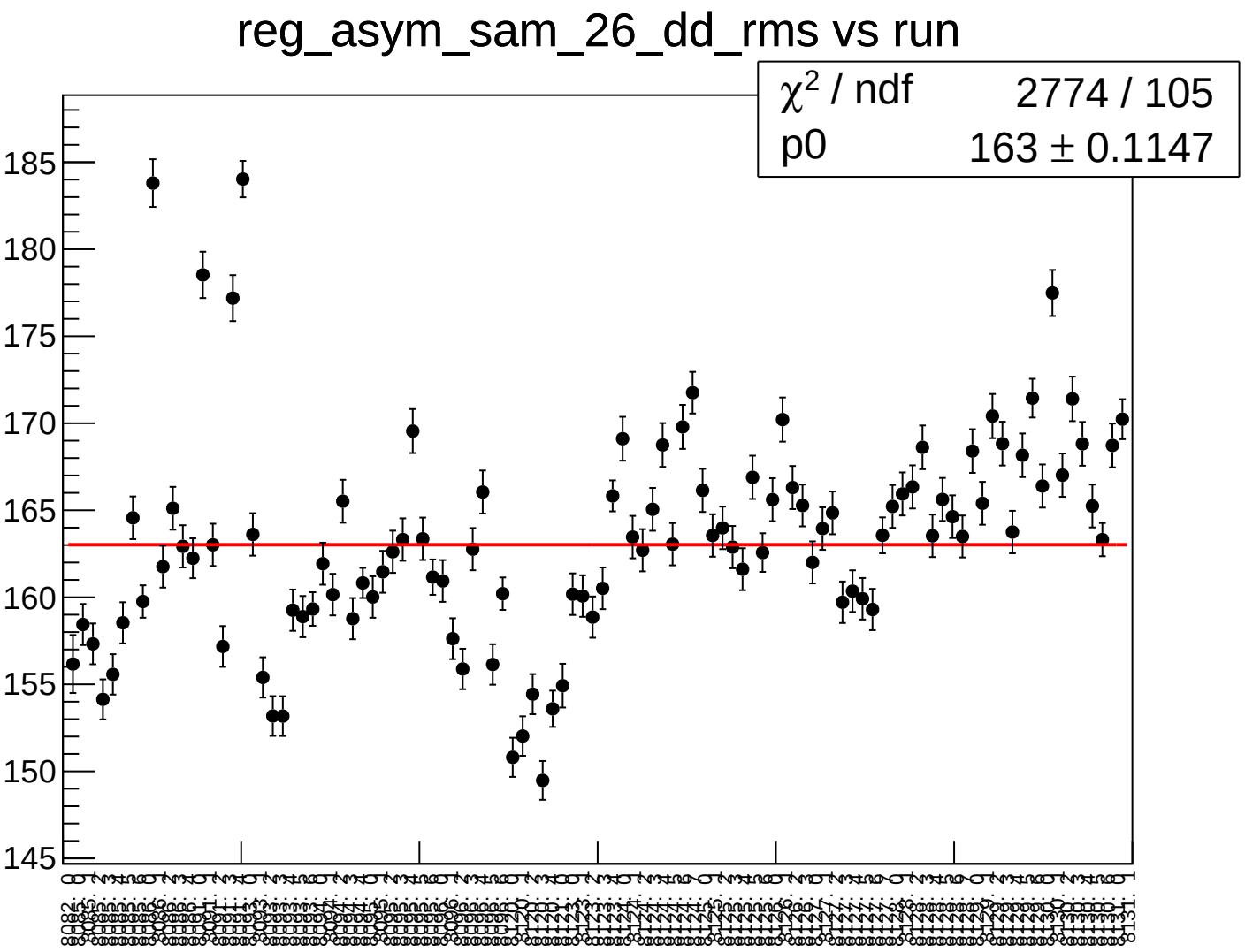

asym_sam_15_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 109.4 / 105
p0 1.406e−14 ± 2.25e−14
pull
Entries 106
Mean 20.53
Std Dev 0

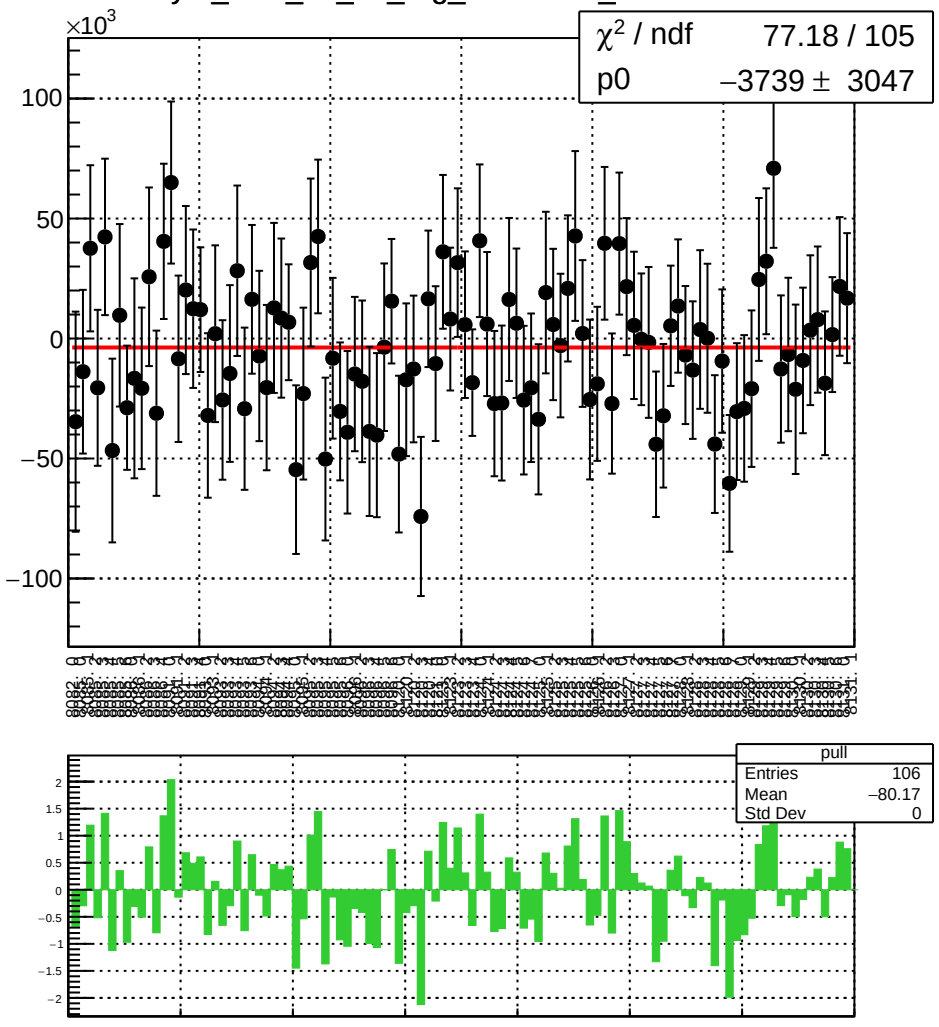

pull1D
Entries 106
Mean −0.05435
Std Dev 1.014

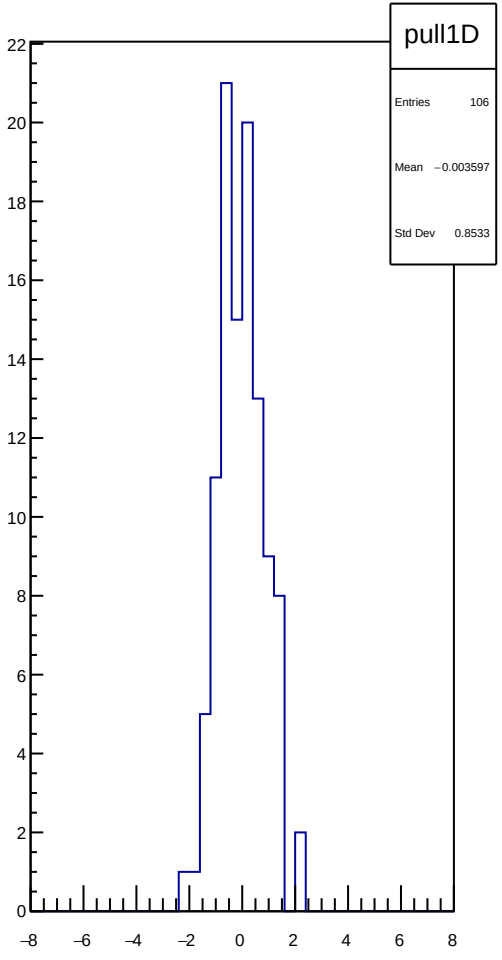

asym_sam_15_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.626e+05 / 105
p0 1.787e−11 ± 1.591e−14
0.1
0.08
0.06
0.04
0.02

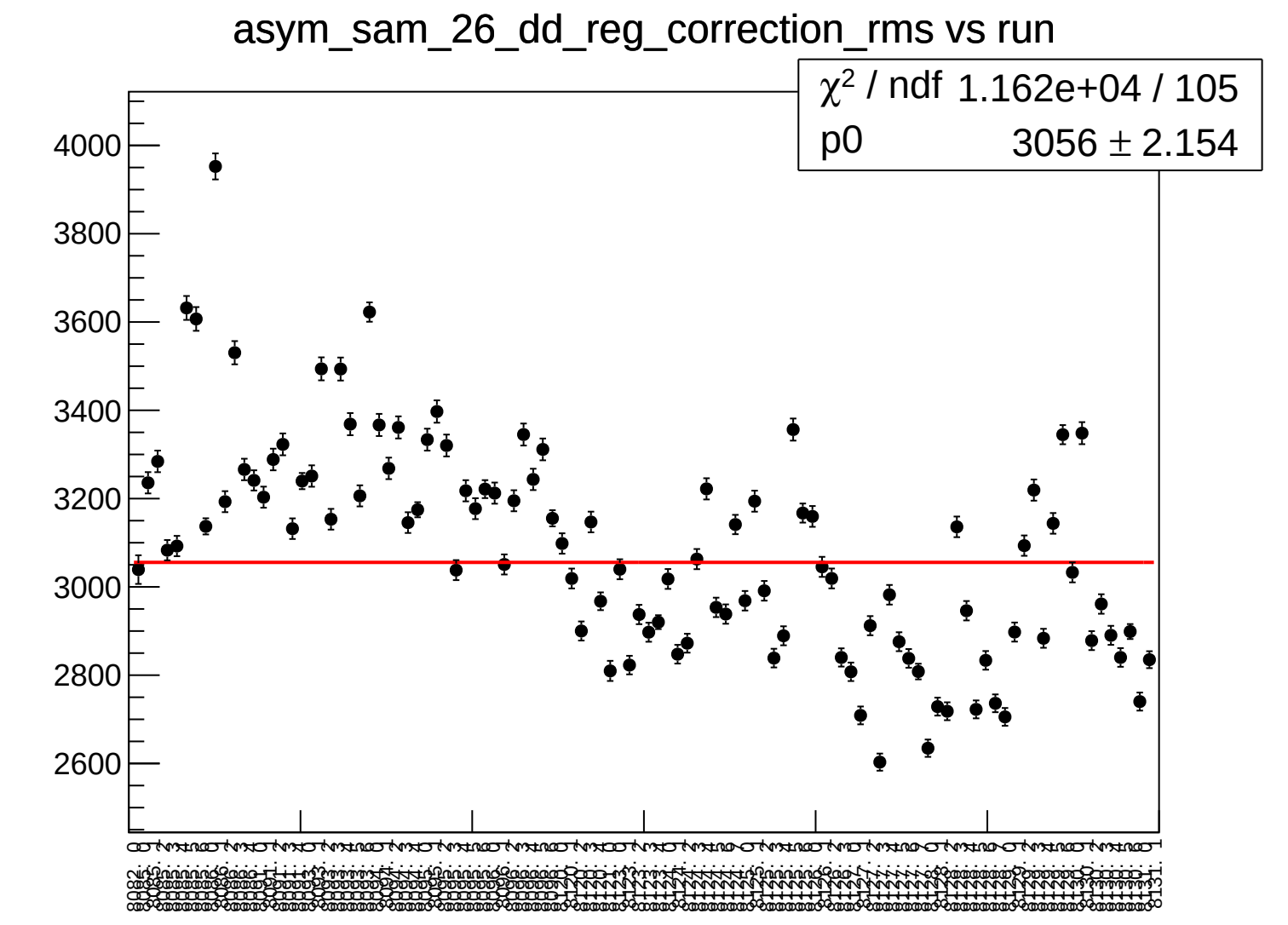

reg_asym_sam_26_dd_mean vs run
χ² / ndf 91.11 / 105
p0 −82.83 ± 162.2
6000
4000
2000
0
−2000
−4000
pull
Entries 106
Mean −266.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

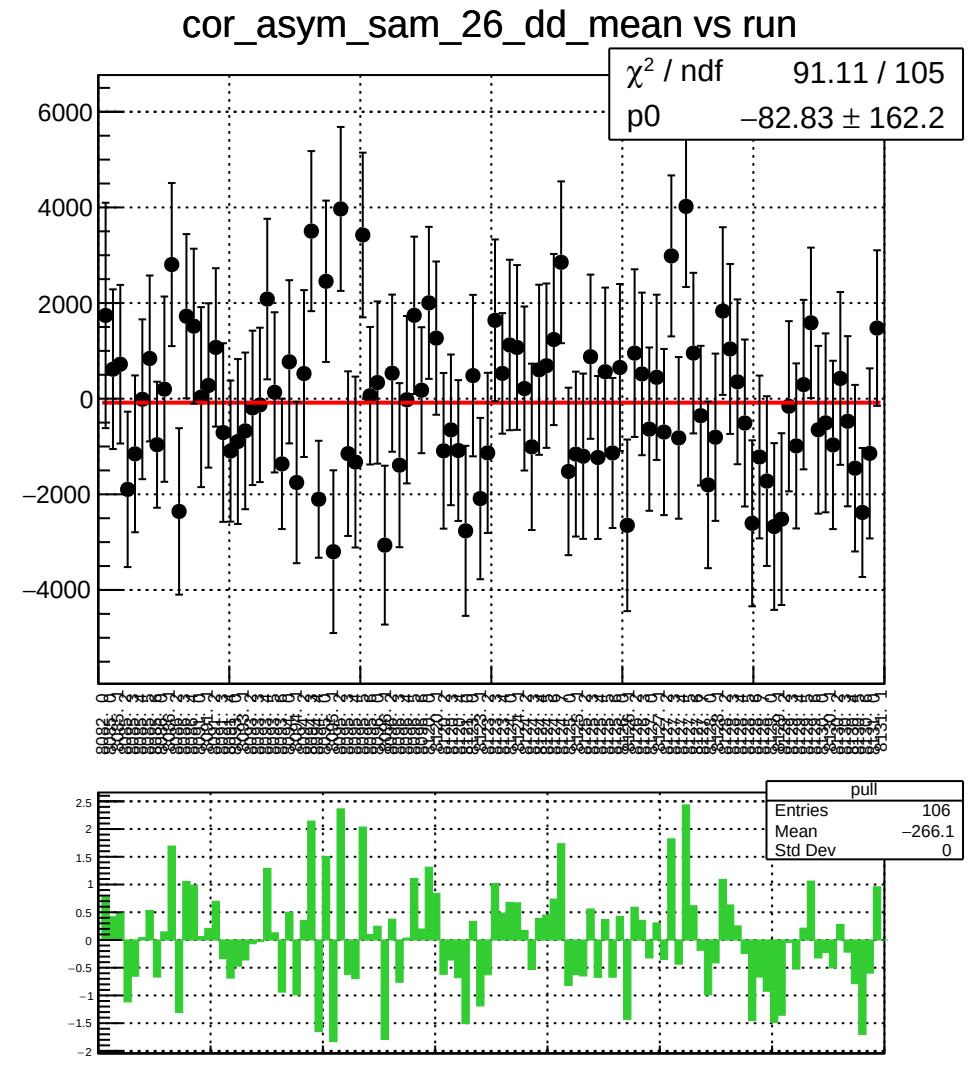

pull1D
Entries 106
Mean 0.01093
Std Dev 0.9271
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

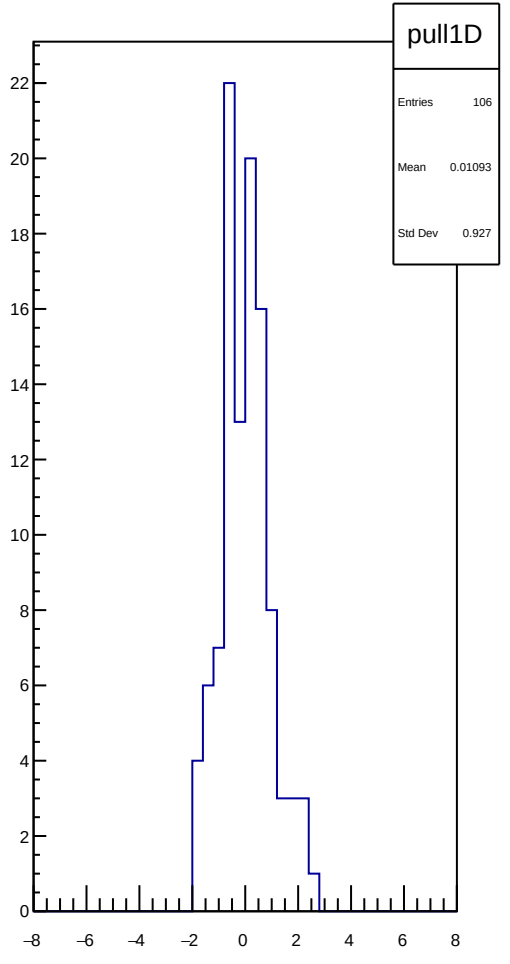

reg_asym_sam_26_dd_rms vs run
$\chi^2$ / ndf 2774 / 105
p0 163 ± 0.1147
185
180
175
170
165
160
155
150
145

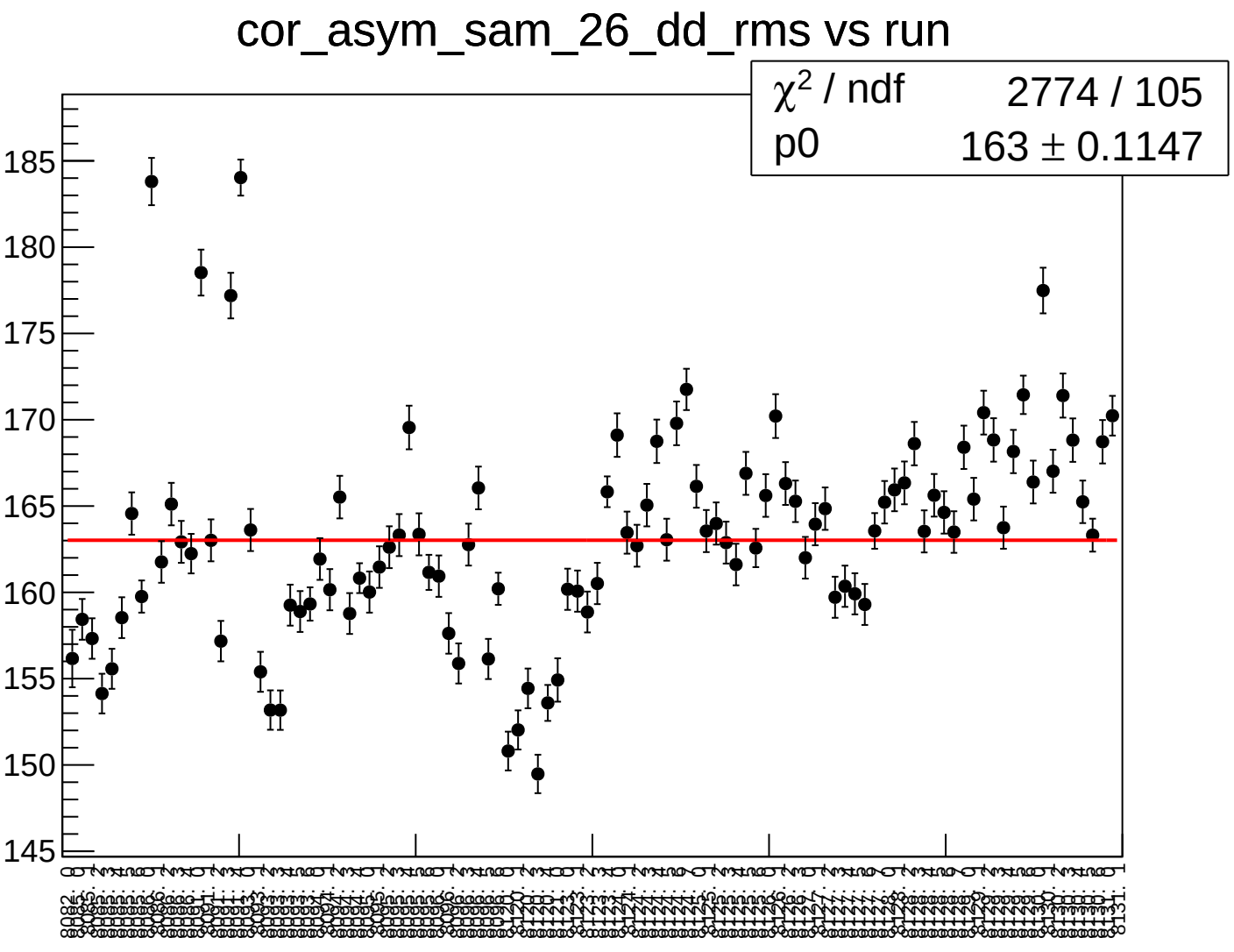

asym_sam_26_dd_reg_correction_mean vs run
×10^3
χ² / ndf 77.18 / 105
p0 −3739 ± 3047
100
50
0
−50
−100
pull
Entries 106
Mean −80.17
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

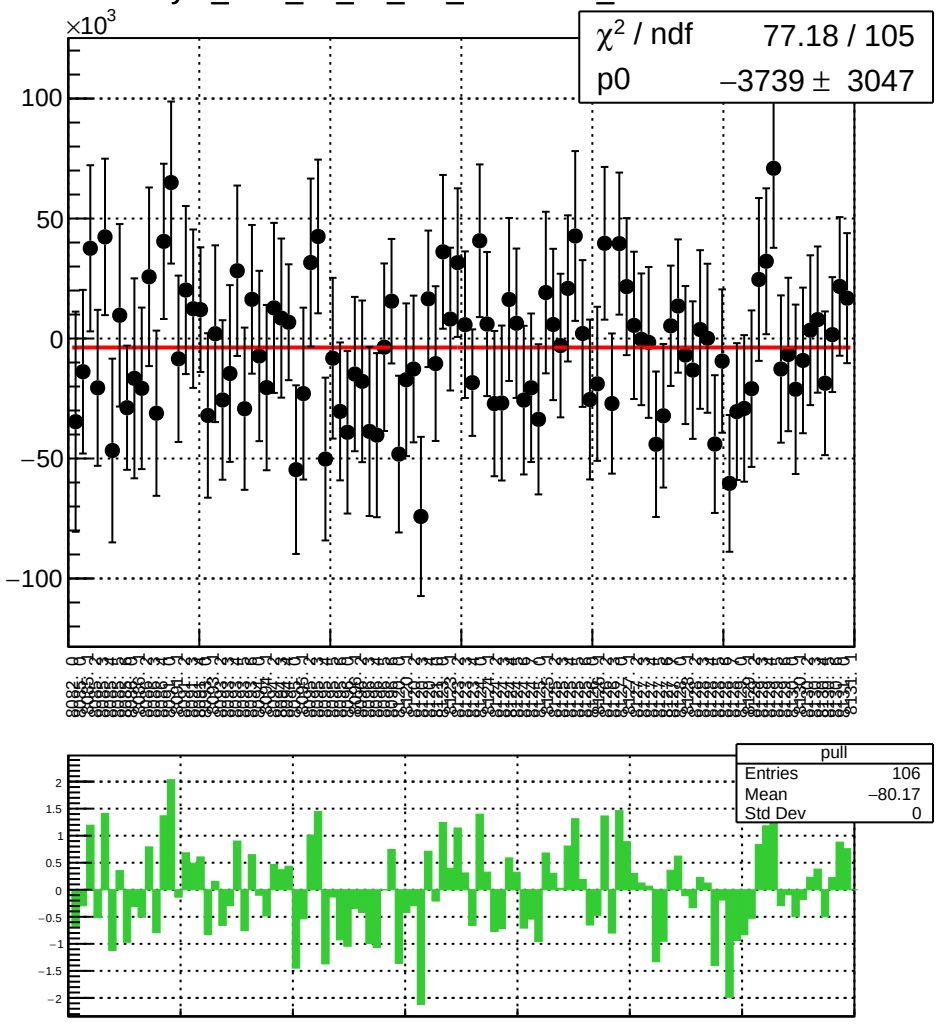

pull1D
Entries 106
Mean −0.003597
Std Dev 0.8533
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

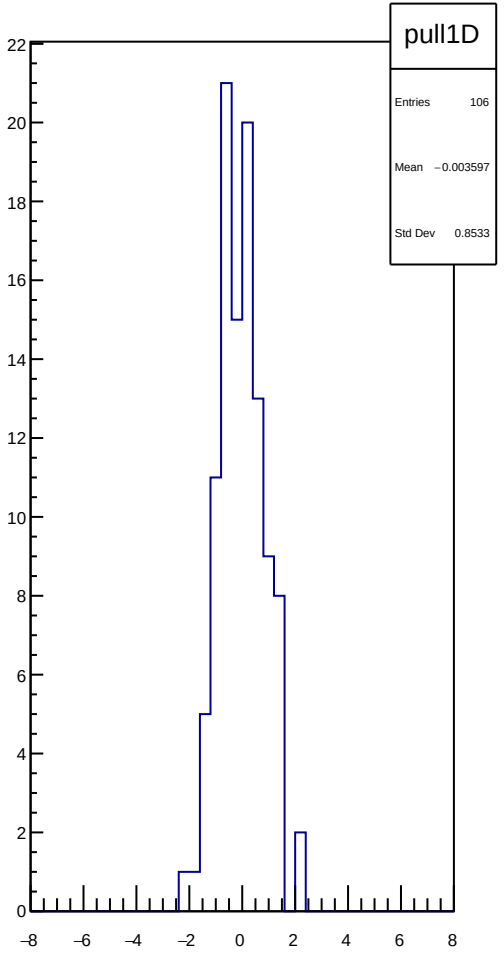

asym_sam_26_dd_reg_correction_rms vs run
χ² / ndf 1.162e+04 / 105
p0 3056 ± 2.154
4000
3800
3600
3400
3200
3000
2800
2600

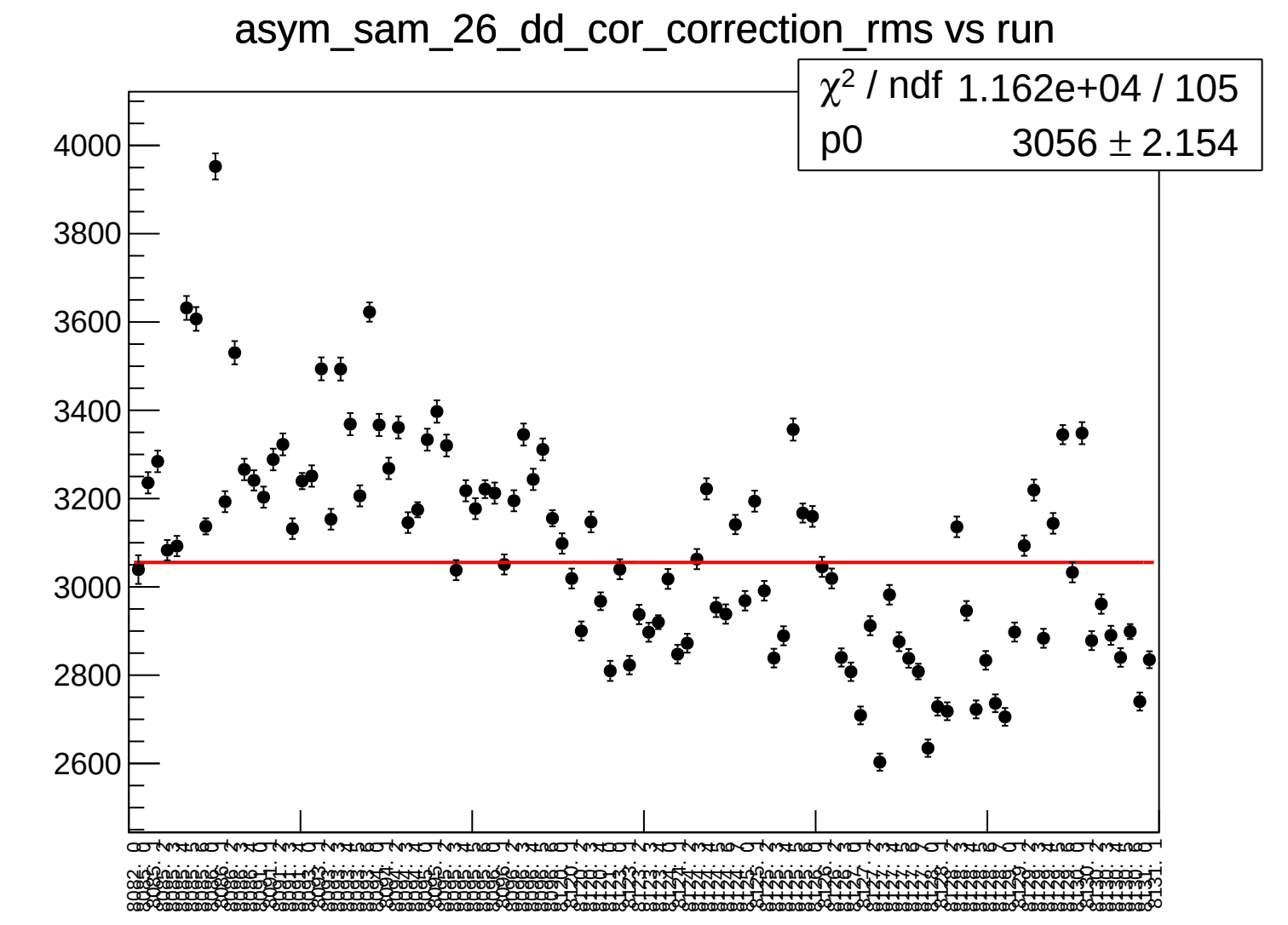

cor_asym_sam_26_dd_mean vs run
χ² / ndf 91.11 / 105
p0 −82.83 ± 162.2
6000
4000
2000
0
−2000
−4000
pull
Entries 106
Mean −266.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

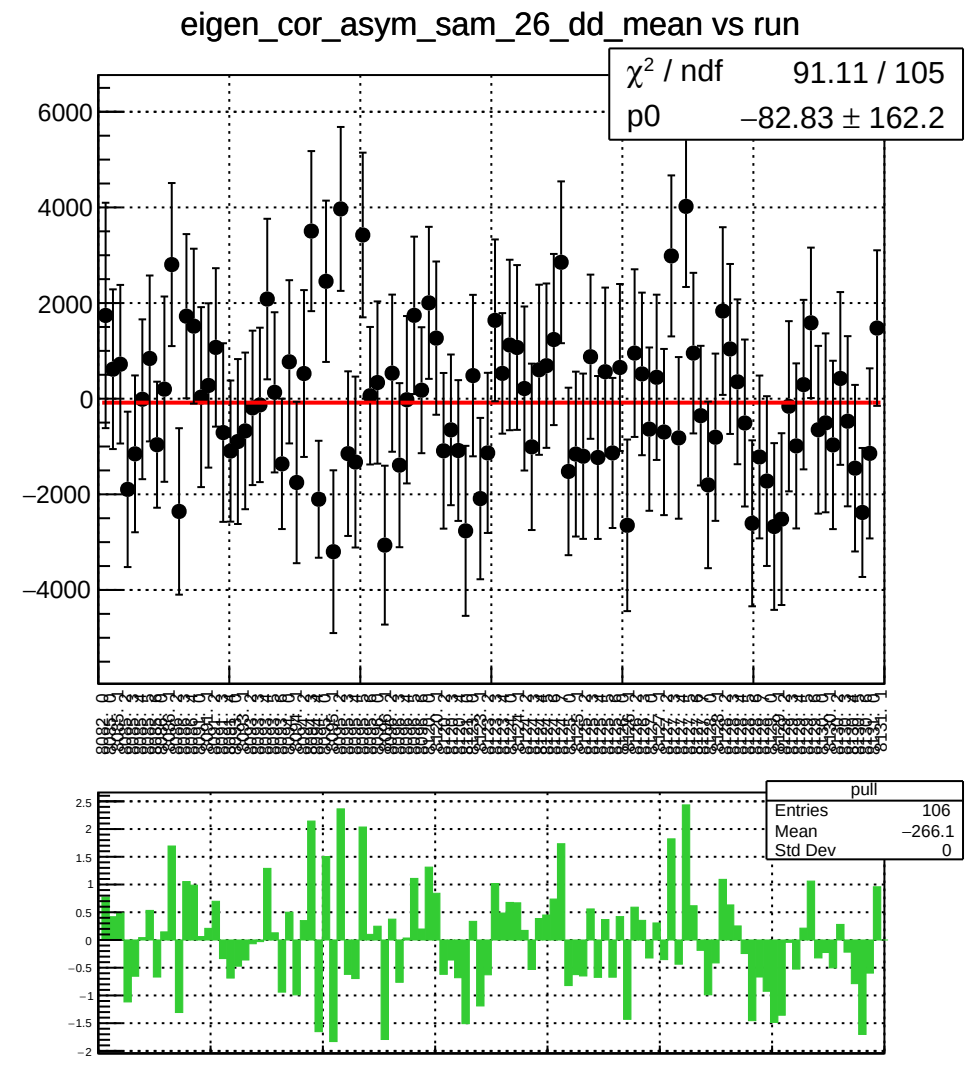

pull1D
Entries 106
Mean 0.01093
Std Dev 0.927
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

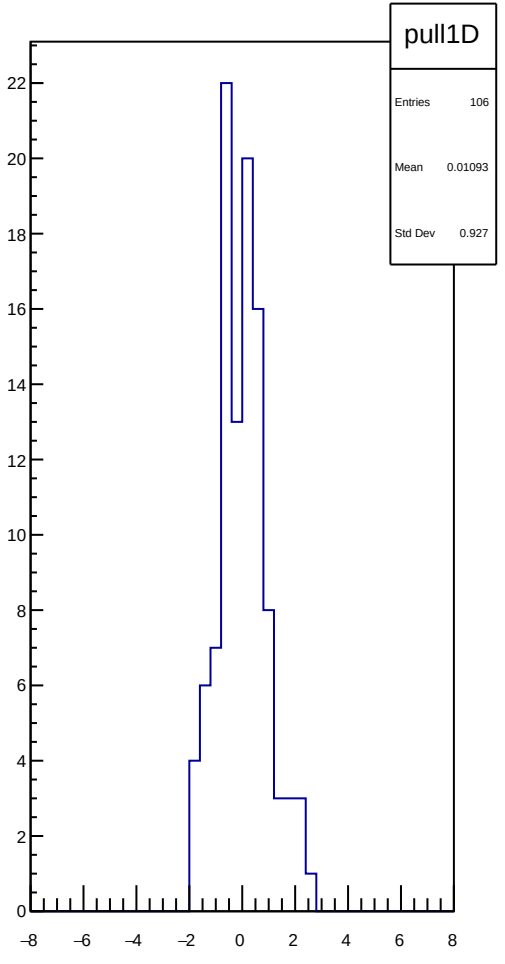

cor_asym_sam_26_dd_rms vs run
$\chi^2$ / ndf 2774 / 105
p0 163 ± 0.1147
185
180
175
170
165
160
155
150
145

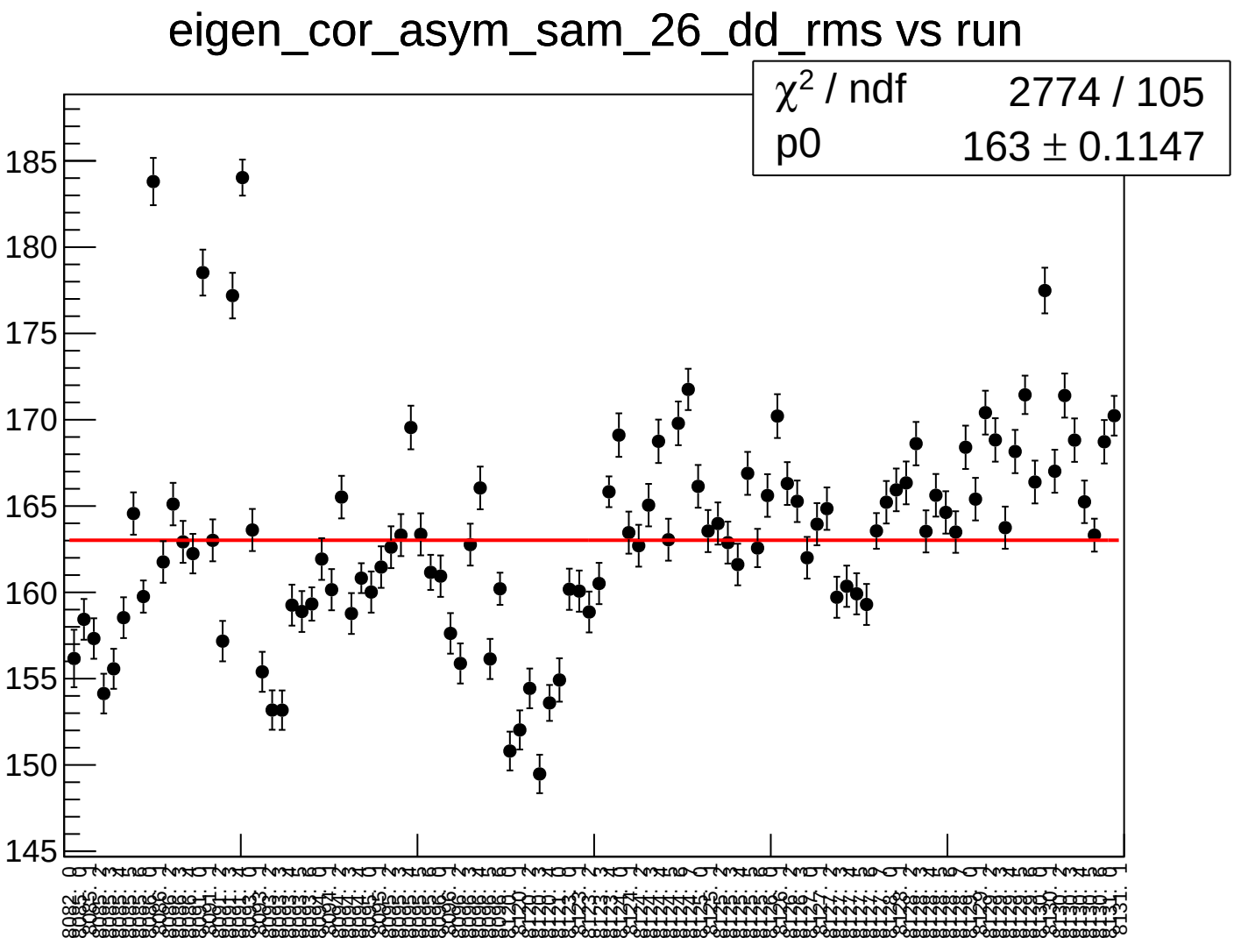

asym_sam_26_dd_cor_correction_mean vs run
×10^3
χ² / ndf 77.18 / 105
p0 −3739 ± 3047
100
50
0
−50
−100
pull
Entries 106
Mean −80.17
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

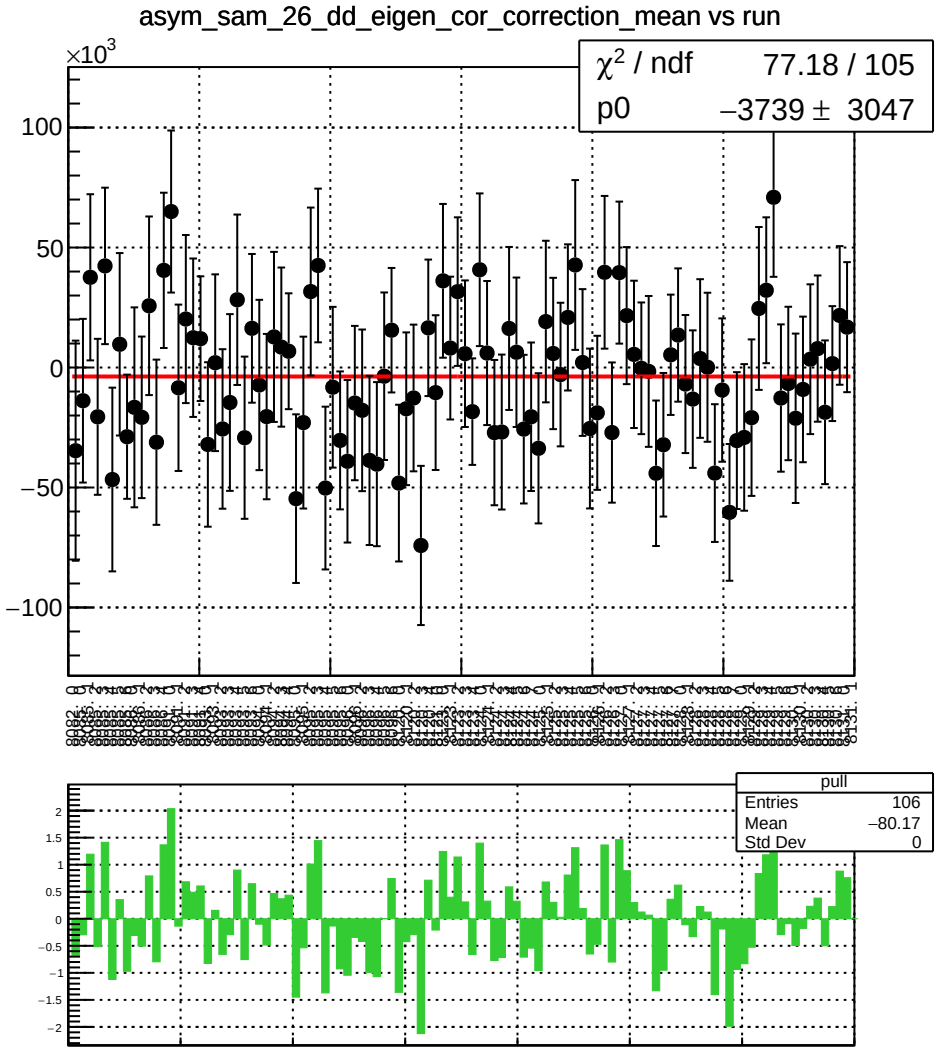

pull1D
Entries 106
Mean −0.003597
Std Dev 0.8533
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

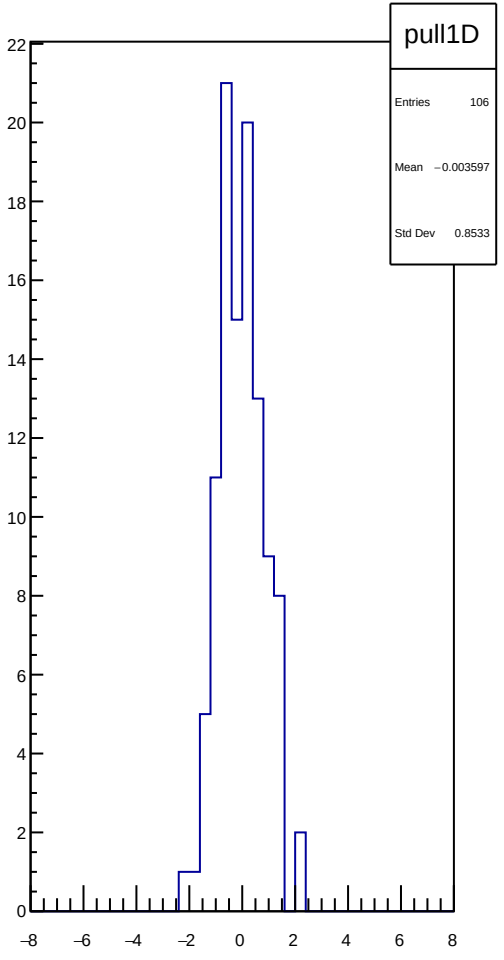

asym_sam_26_dd_cor_correction_rms vs run
χ² / ndf 1.162e+04 / 105
p0 3056 ± 2.154
4000
3800
3600
3400
3200
3000
2800
2600

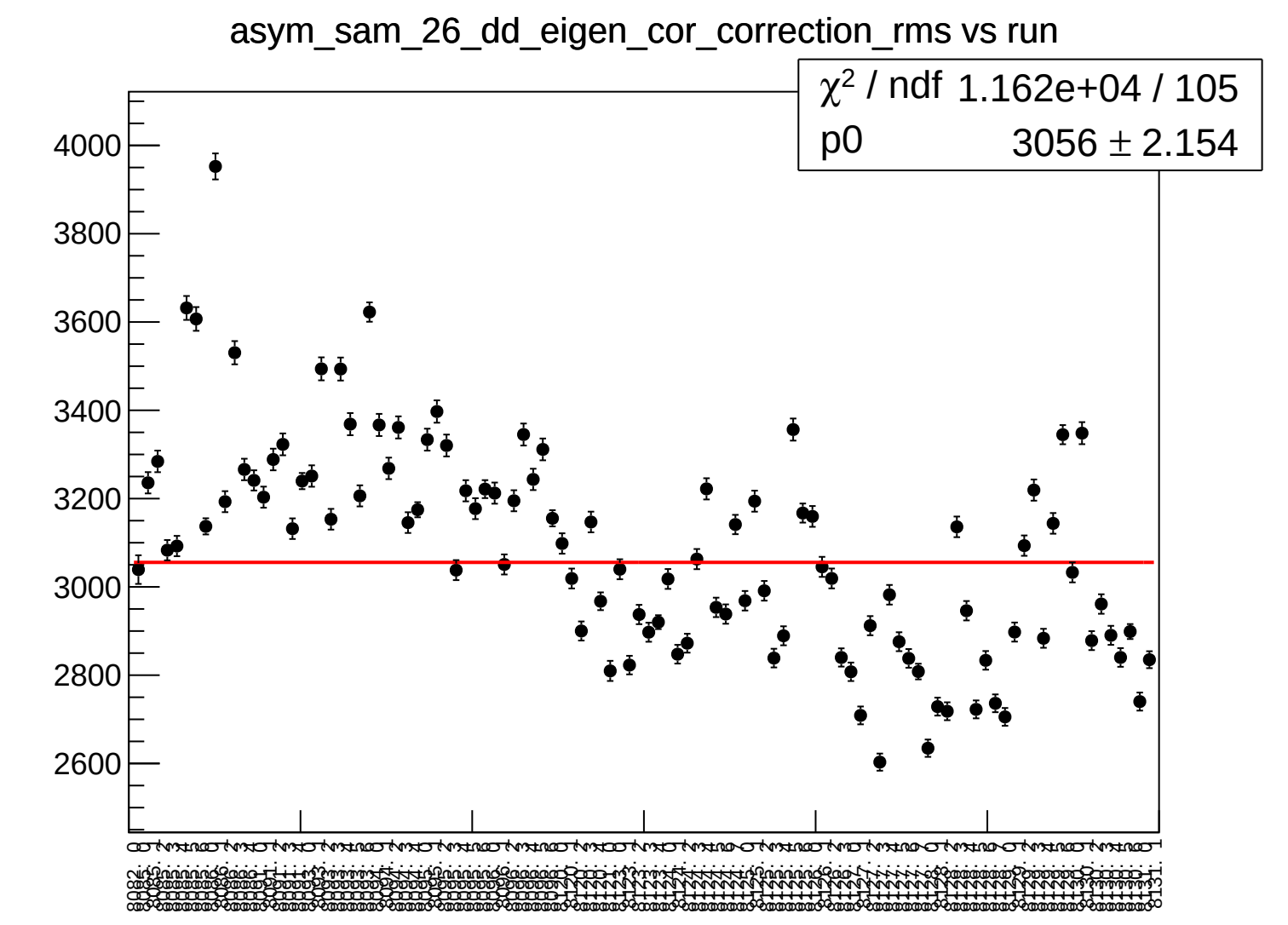

eigen_cor_asym_sam_26_dd_mean vs run
χ² / ndf 91.11 / 105
p0 −82.83 ± 162.2
6000
4000
2000
0
−2000
−4000
pull
Entries 106
Mean −266.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

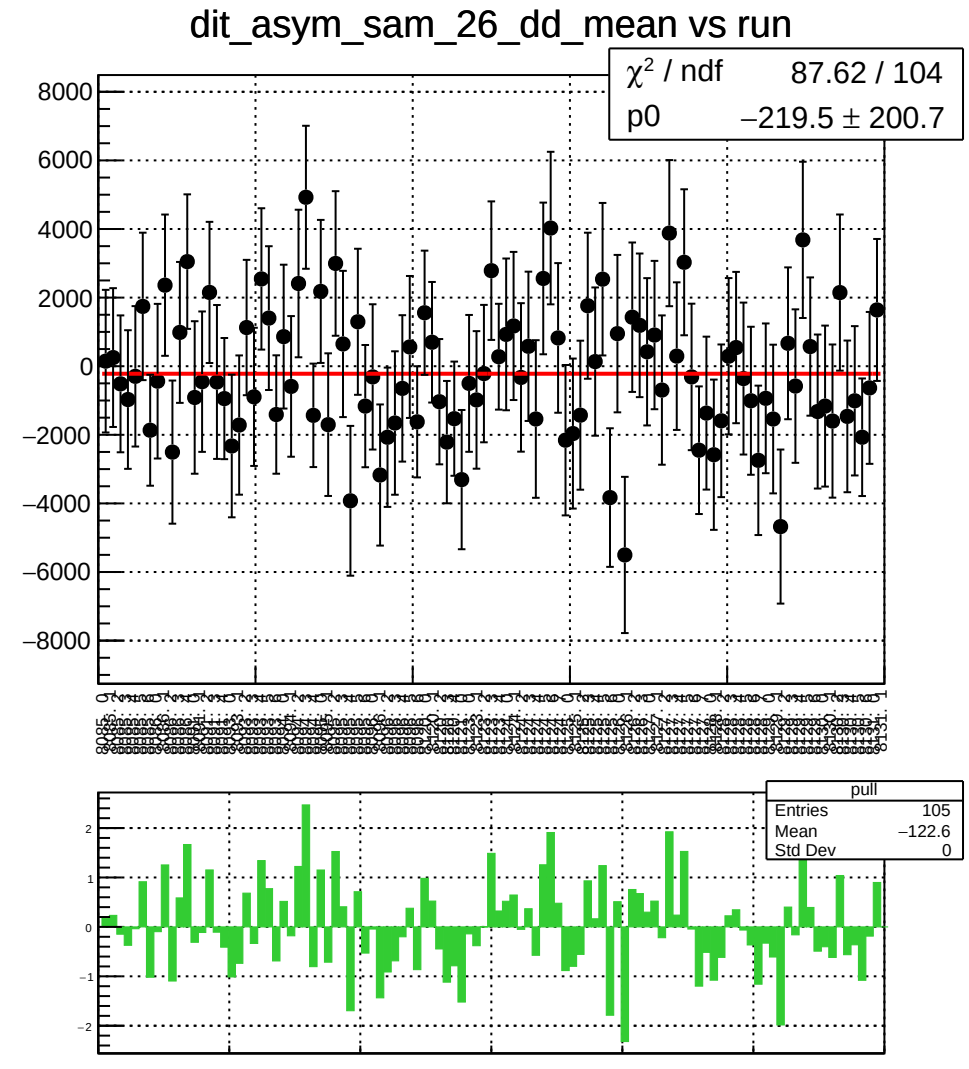

pull1D
Entries 106
Mean 0.01093
Std Dev 0.927
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

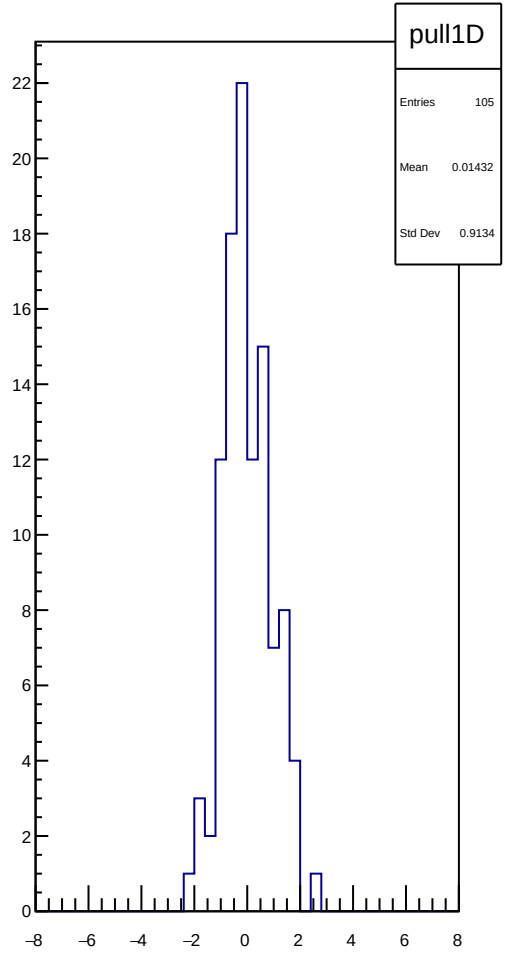

eigen_cor_asym_sam_26_dd_rms vs run
χ² / ndf 2774 / 105
p0 163 ± 0.1147
185
180
175
170
165
160
155
150
145

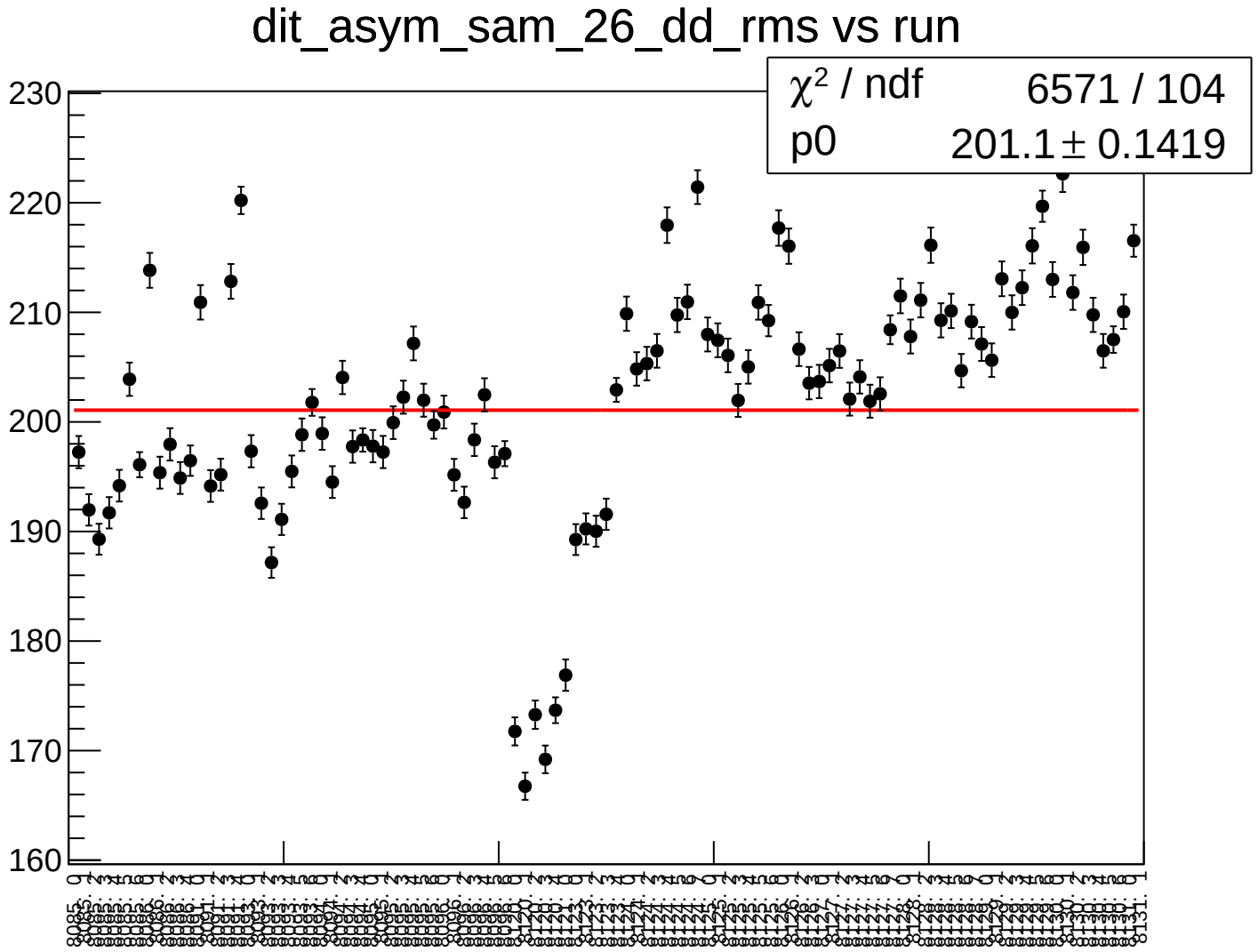

asym_sam_26_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 77.18 / 105
p0 −3739 ± 3047
100
50
0
−50
−100
pull
Entries 106
Mean −80.17
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

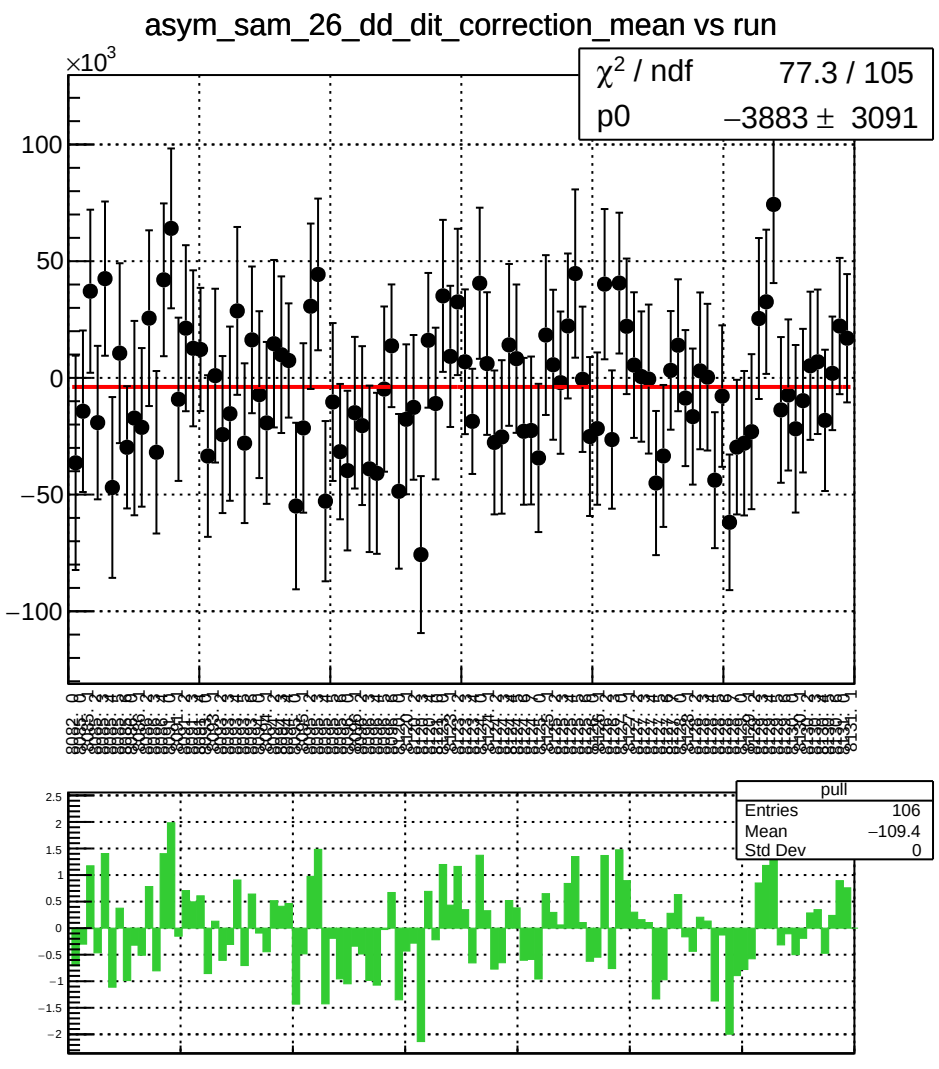

pull1D
Entries 106
Mean −0.003597
Std Dev 0.8533
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

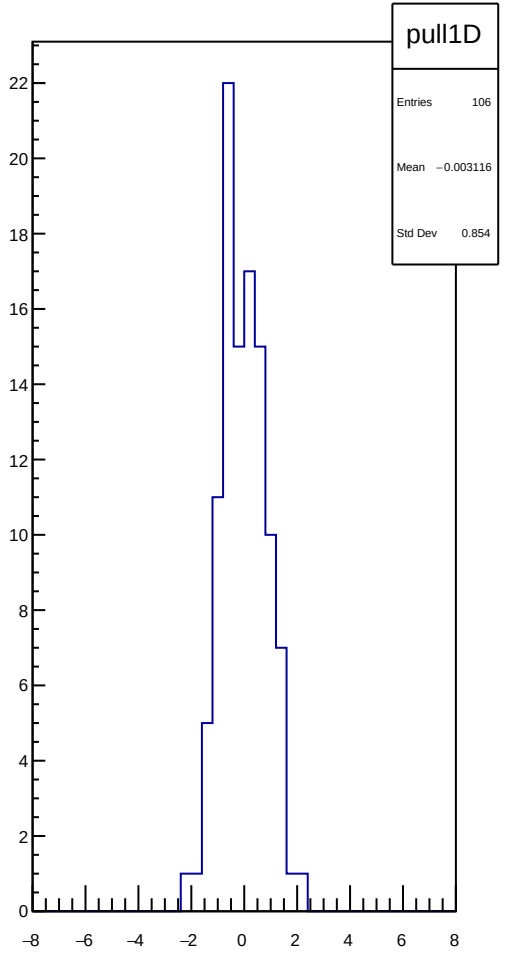

asym_sam_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.162e+04 / 105
p0 3056 ± 2.154
4000
3800
3600
3400
3200
3000
2800
2600

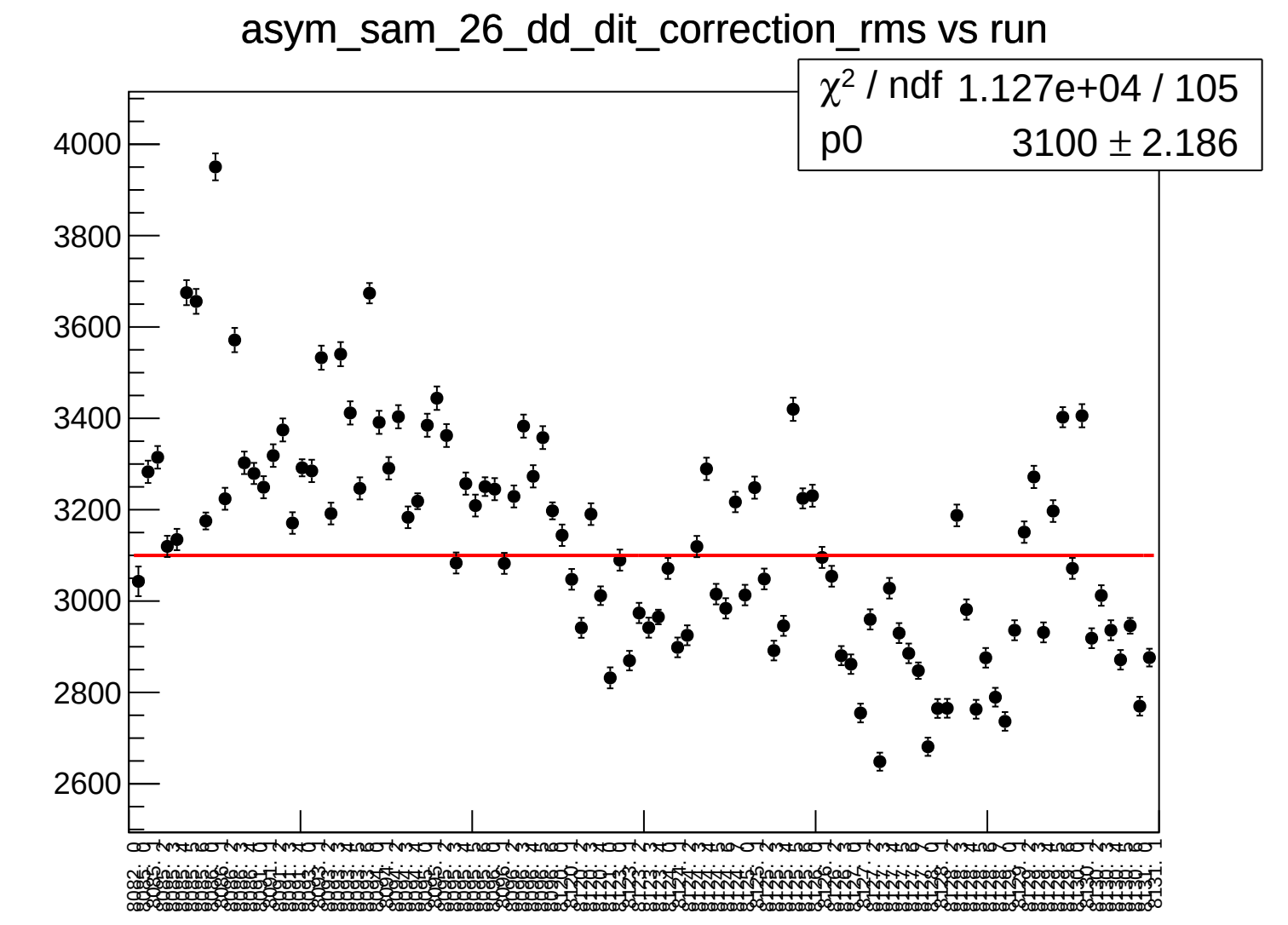

dit_asym_sam_26_dd_mean vs run
χ² / ndf 87.62 / 104
p0 −219.5 ± 200.7
pull
Entries 105
Mean −122.6
Std Dev 0

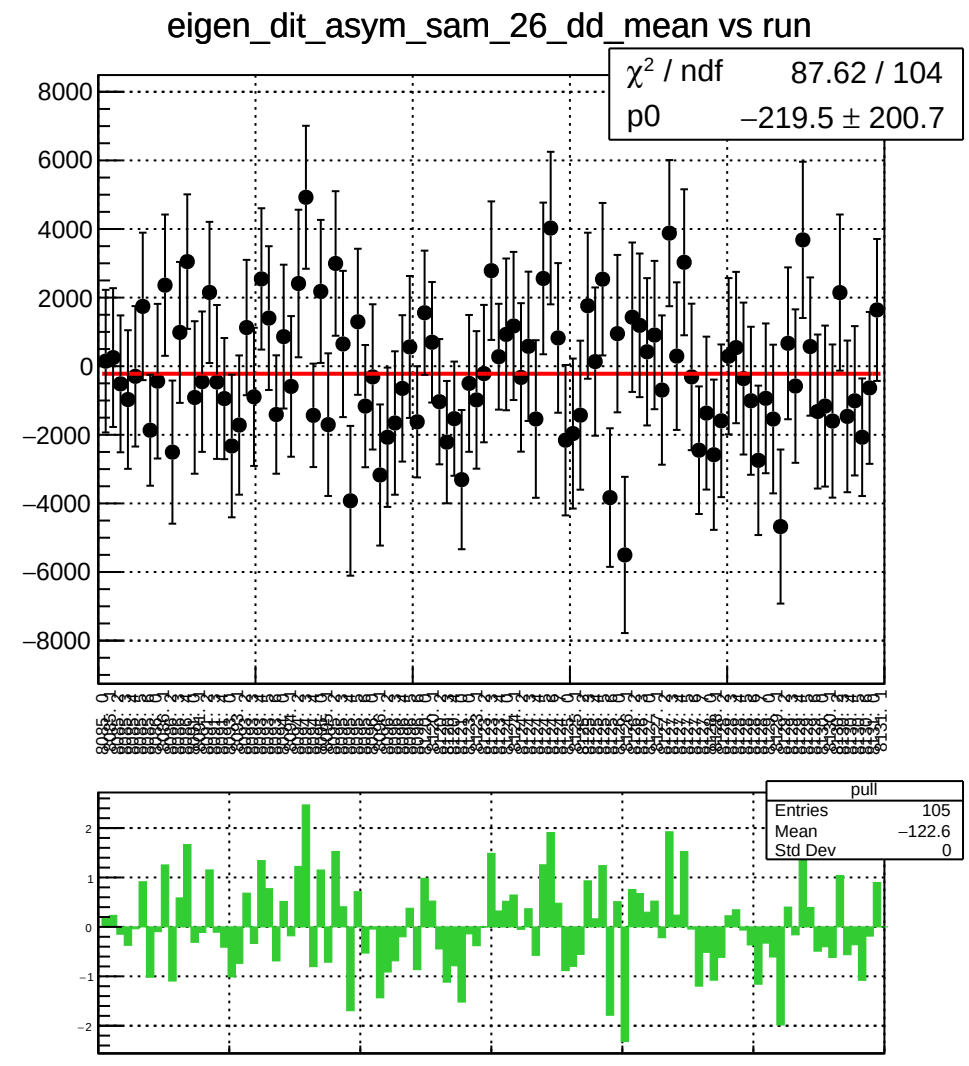

pull1D
Entries 105
Mean 0.01432
Std Dev 0.9134

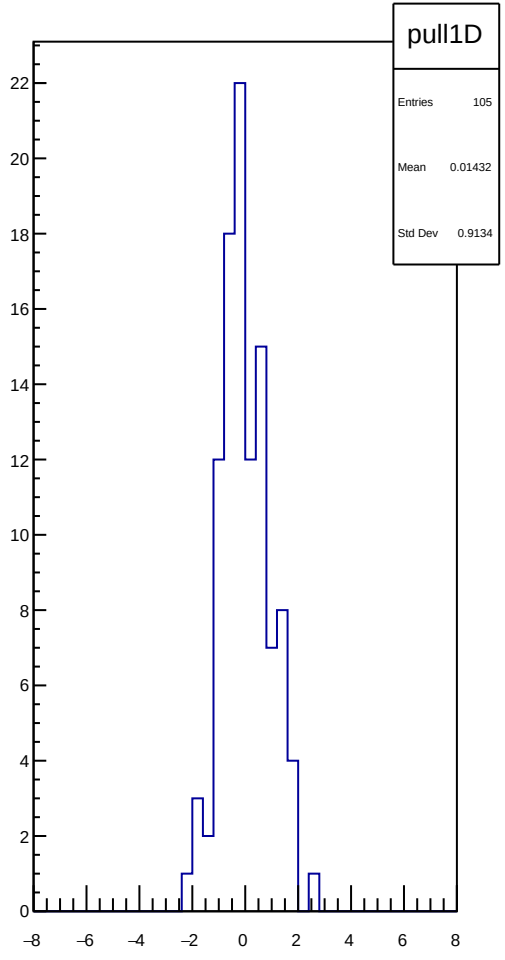

dit_asym_sam_26_dd_rms vs run
χ² / ndf 6571 / 104
p0 201.1 ± 0.1419
230
220
210
200
190
180
170
160

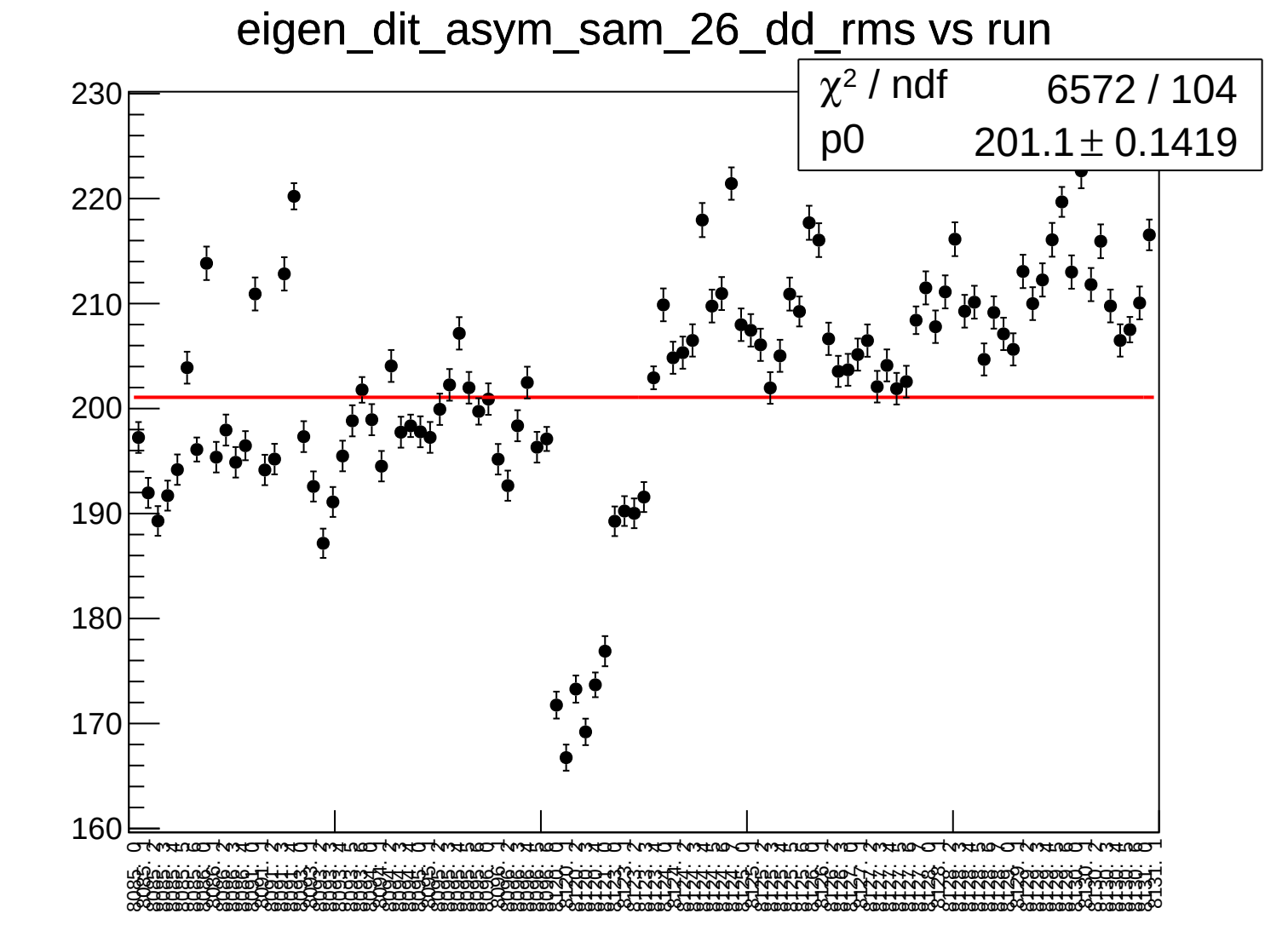

asym_sam_26_dd_dit_correction_mean vs run
×10^3
χ² / ndf 77.3 / 105
p0 −3883 ± 3091
100
50
0
−50
−100
pull
Entries 106
Mean −109.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

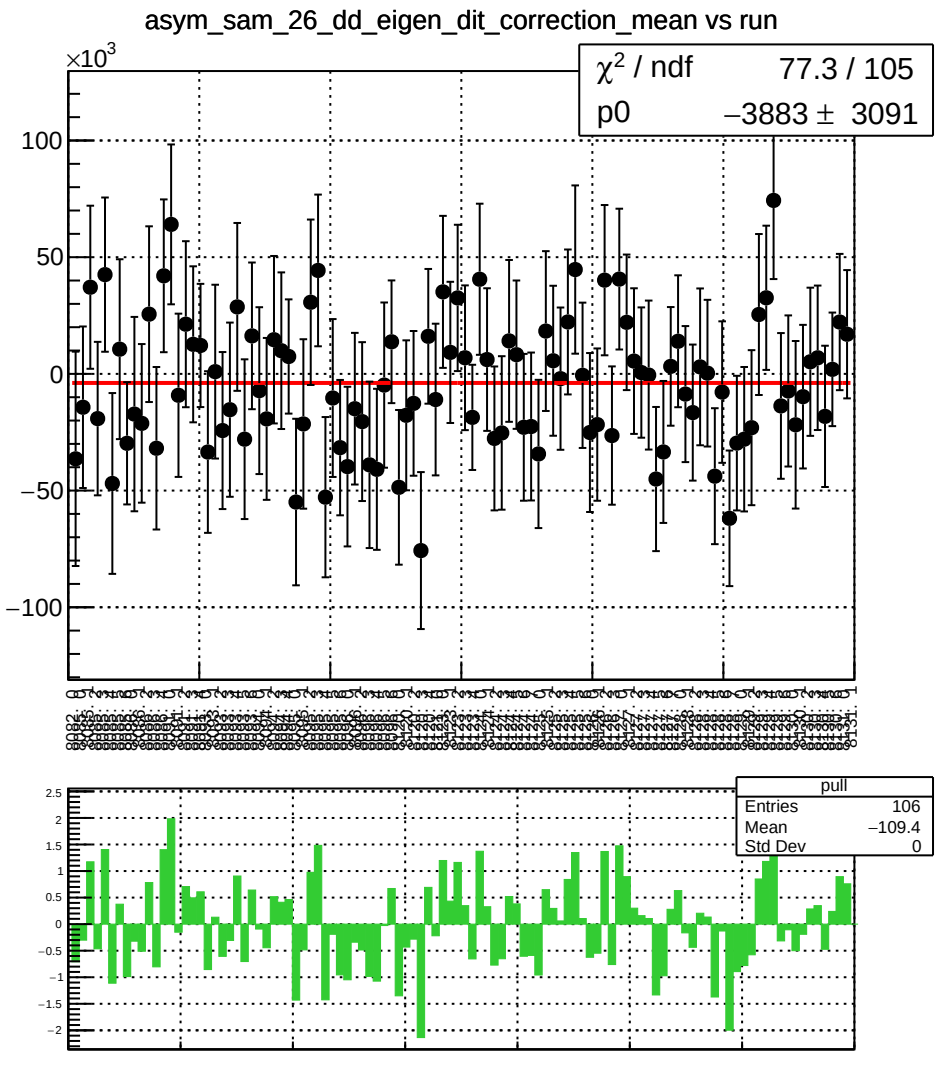

pull1D
Entries 106
Mean −0.003116
Std Dev 0.854
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

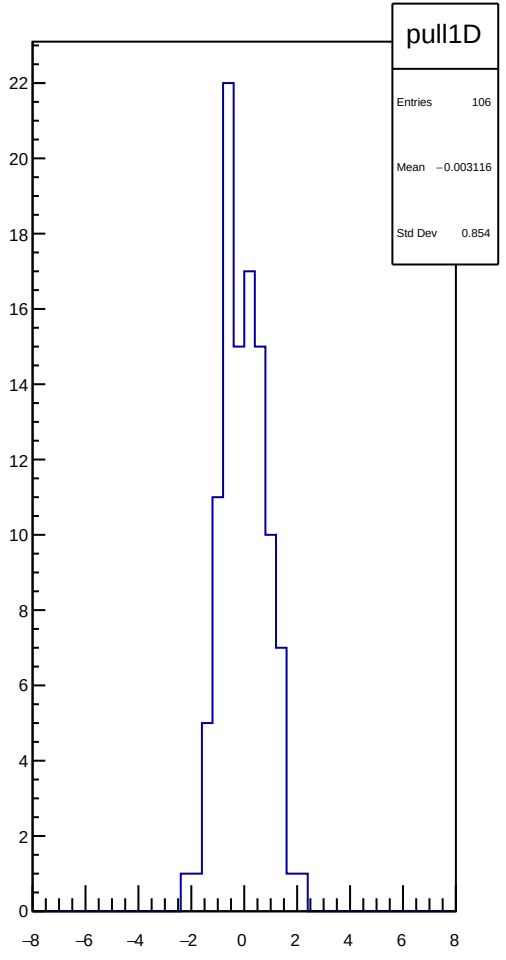

asym_sam_26_dd_dit_correction_rms vs run
χ² / ndf 1.127e+04 / 105
p0 3100 ± 2.186
4000
3800
3600
3400
3200
3000
2800
2600

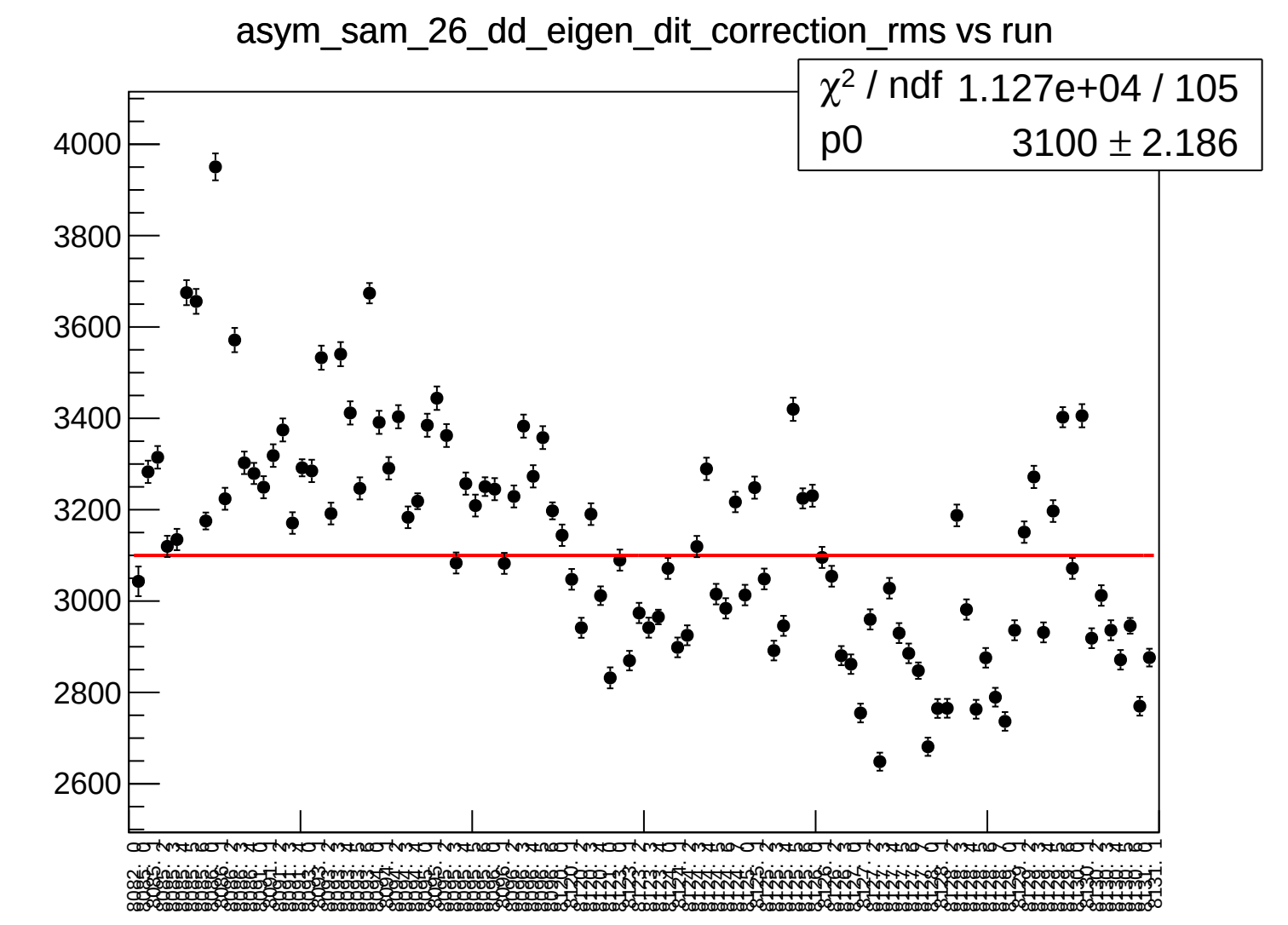

eigen_dit_asym_sam_26_dd_mean vs run
χ² / ndf 87.62 / 104
p0 −219.5 ± 200.7
pull
Entries 105
Mean −122.6
Std Dev 0

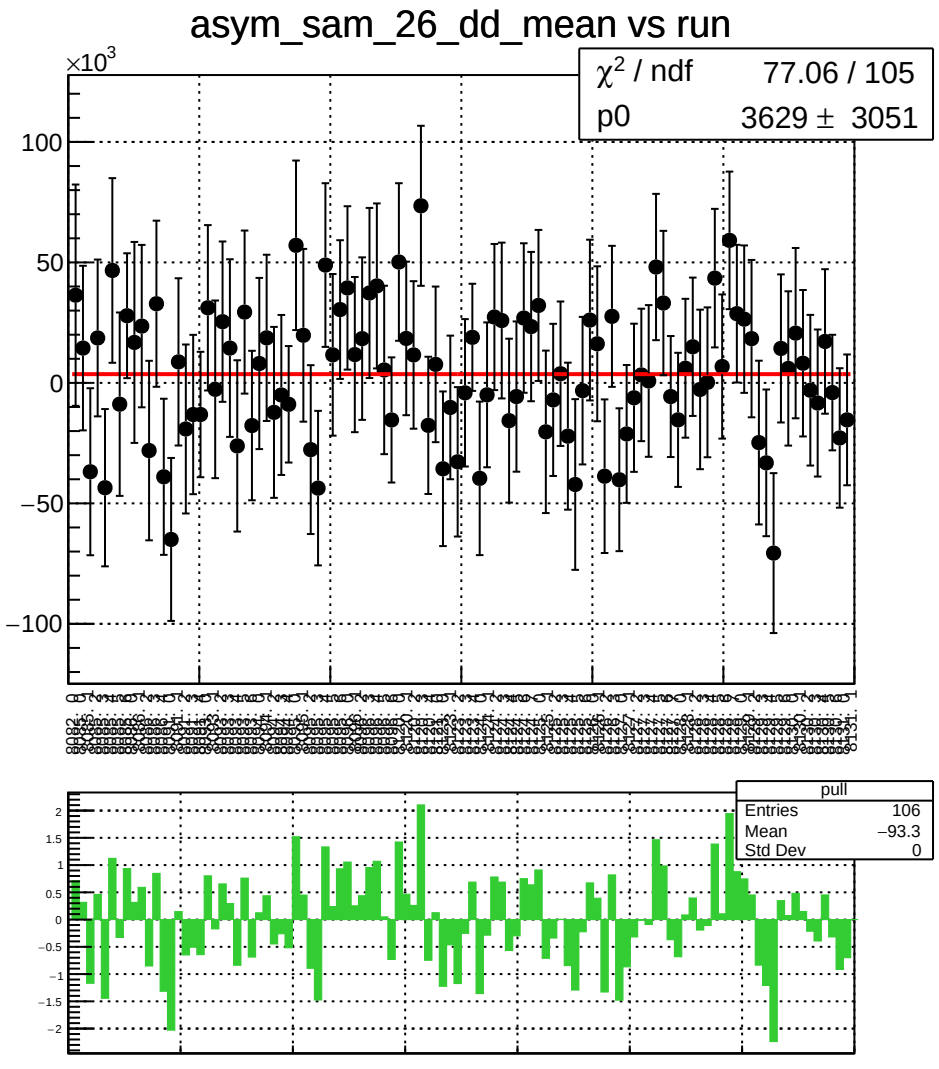

pull1D
Entries 105
Mean 0.01432
Std Dev 0.9134

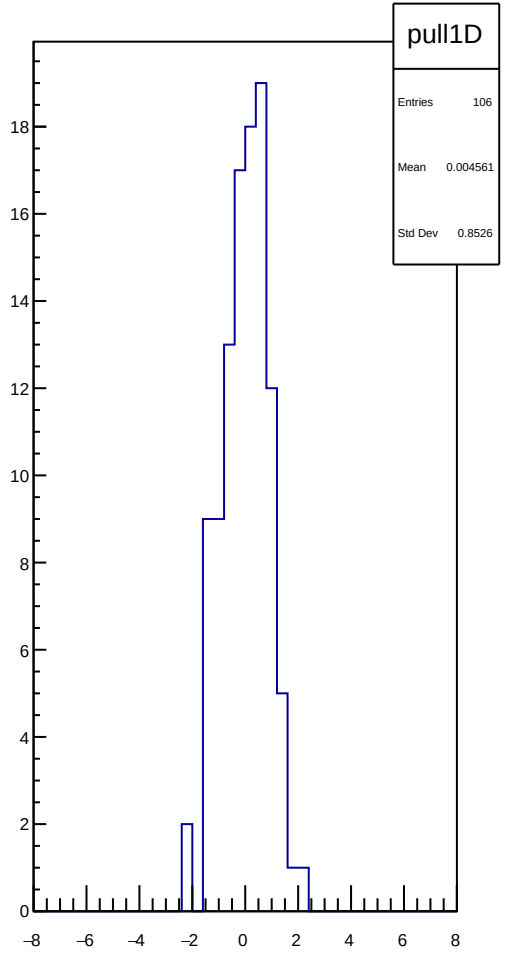

eigen_dit_asym_sam_26_dd_rms vs run
χ² / ndf 6572 / 104
p0 201.1 ± 0.1419
230
220
210
200
190
180
170
160

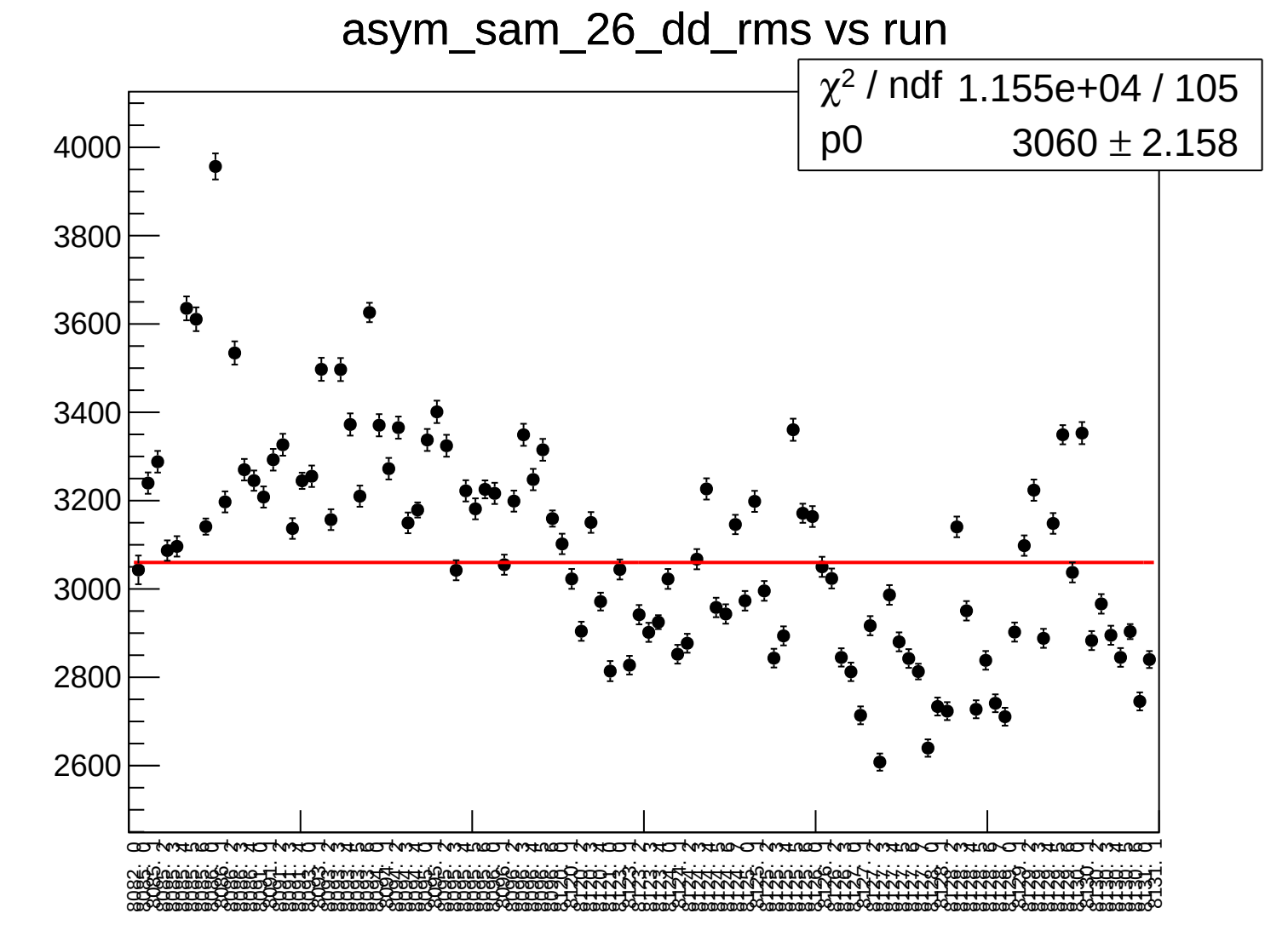

asym_sam_26_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 77.3 / 105
p0 −3883 ± 3091
100
50
0
−50
−100
pull
Entries 106
Mean −109.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

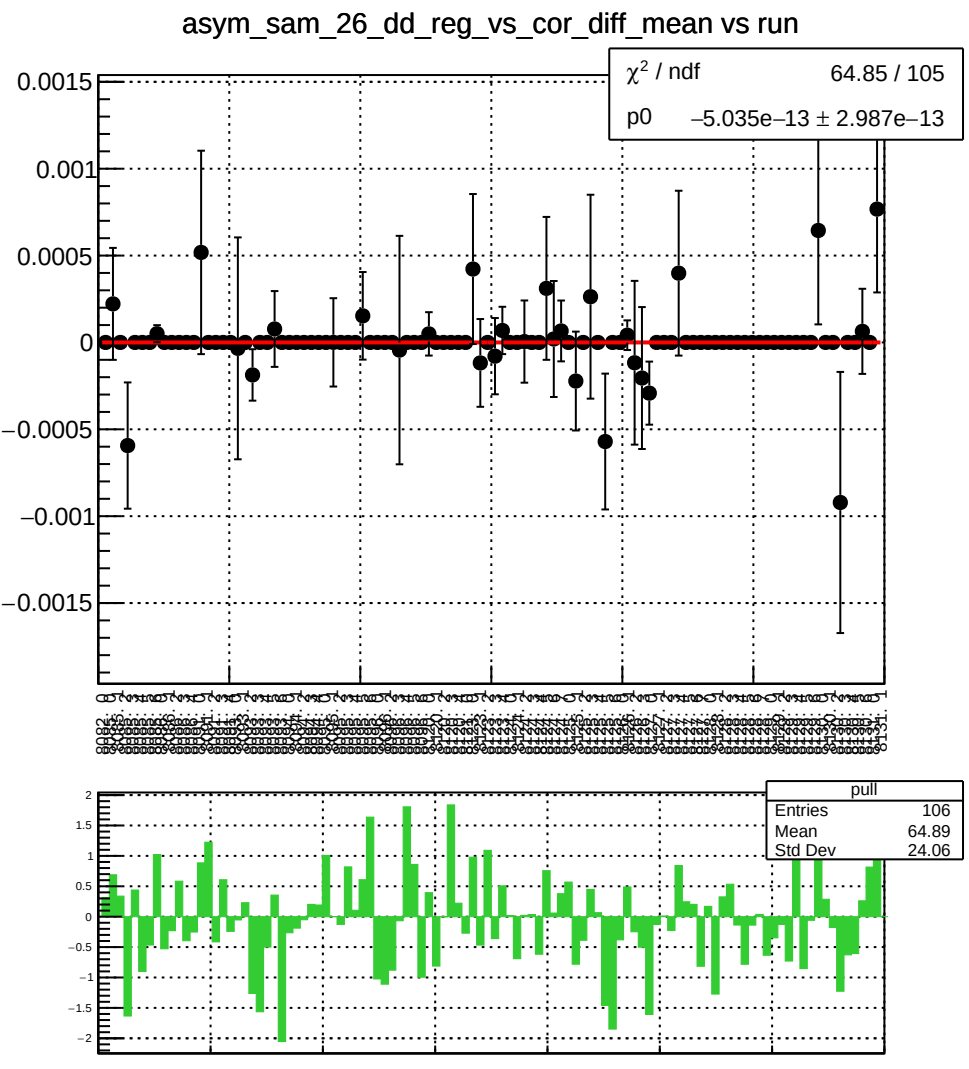

pull1D
Entries 106
Mean −0.003116
Std Dev 0.854
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

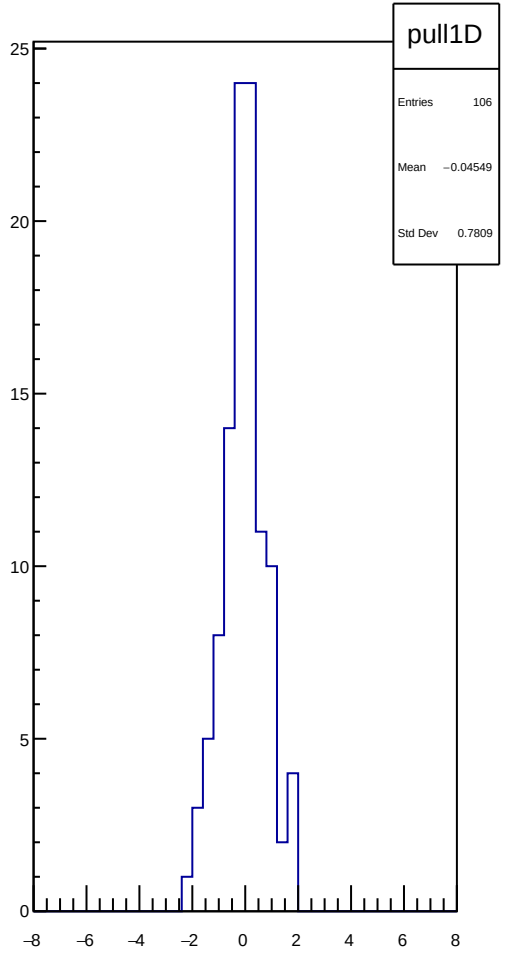

asym_sam_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.127e+04 / 105
p0 3100 ± 2.186
4000
3800
3600
3400
3200
3000
2800
2600

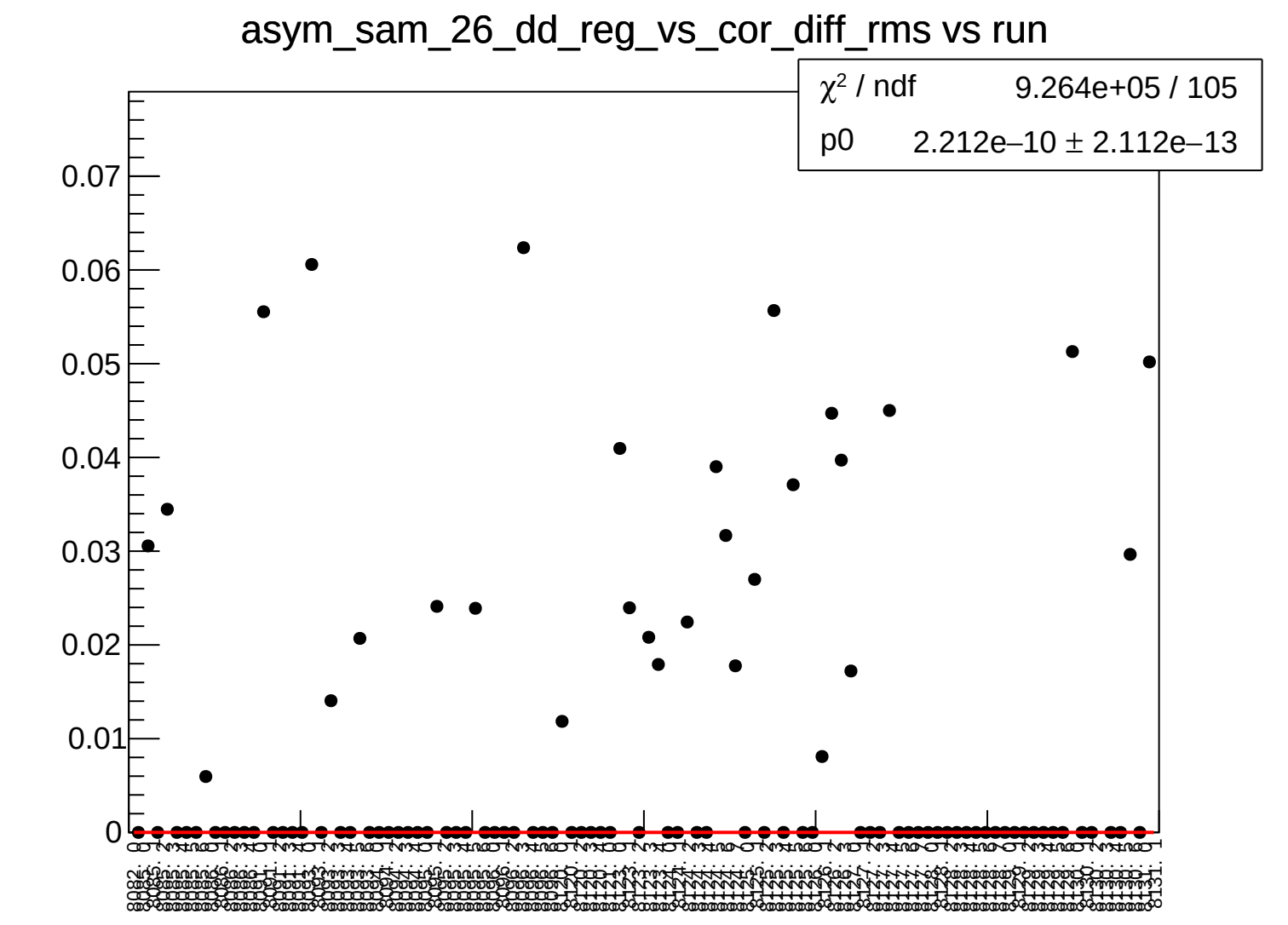

asym_sam_26_dd_mean vs run
×10^3
χ^2 / ndf 77.06 / 105
p0 3629 ± 3051
100
50
0
−50
−100
pull
Entries 106
Mean −93.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

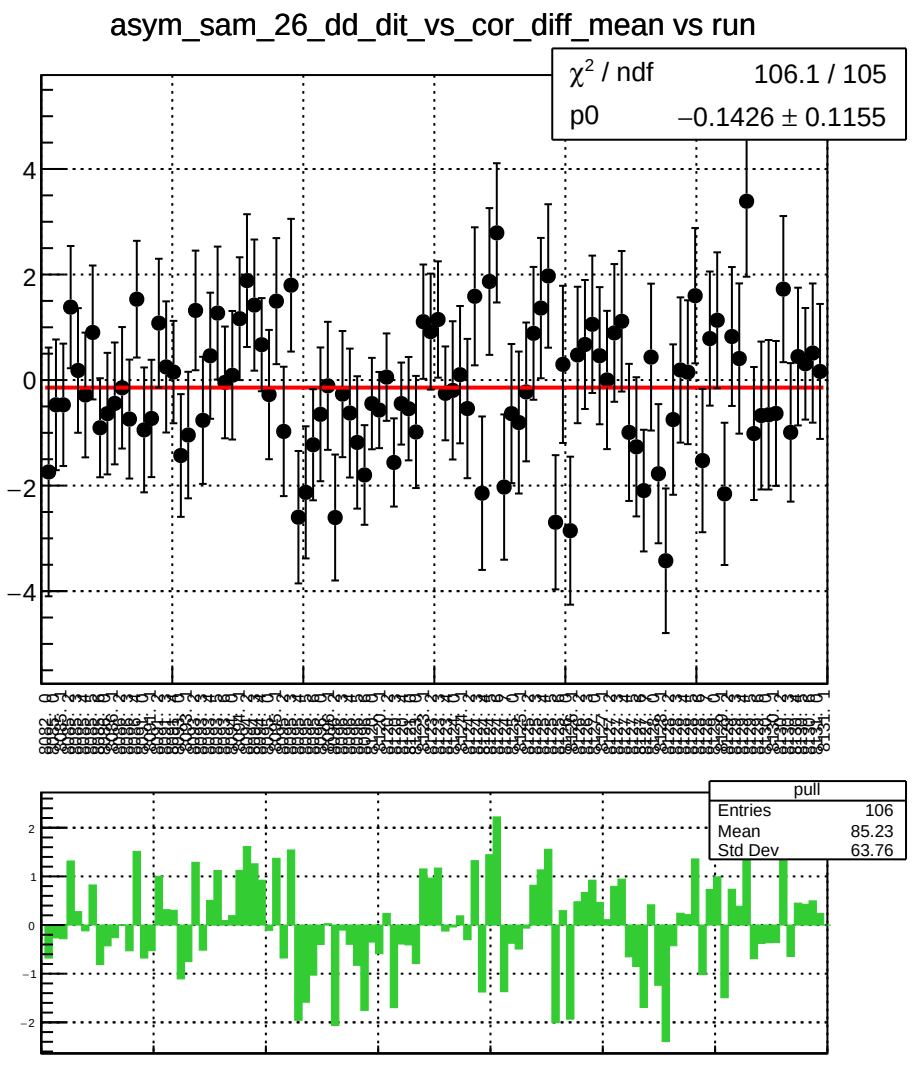

pull1D
Entries 106
Mean 0.004561
Std Dev 0.8526
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

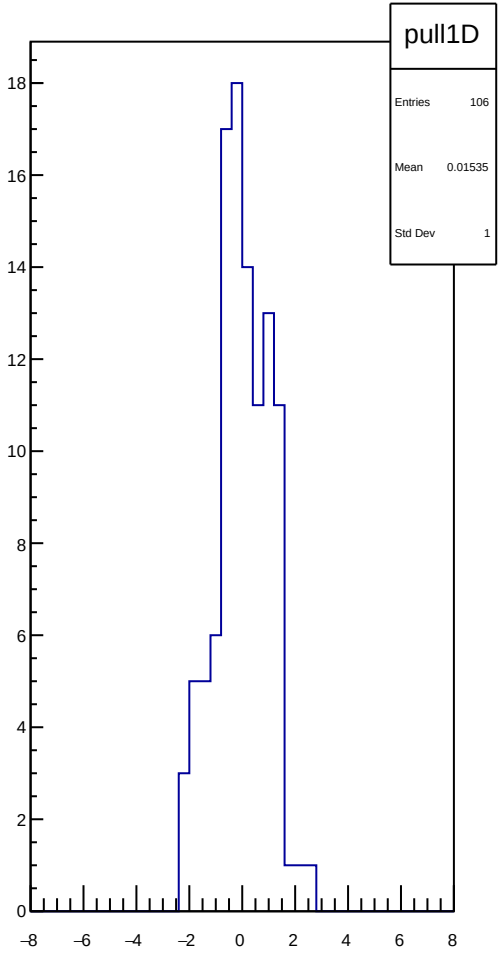

asym_sam_26_dd_rms vs run
χ² / ndf 1.155e+04 / 105
p0 3060 ± 2.158
4000
3800
3600
3400
3200
3000
2800
2600

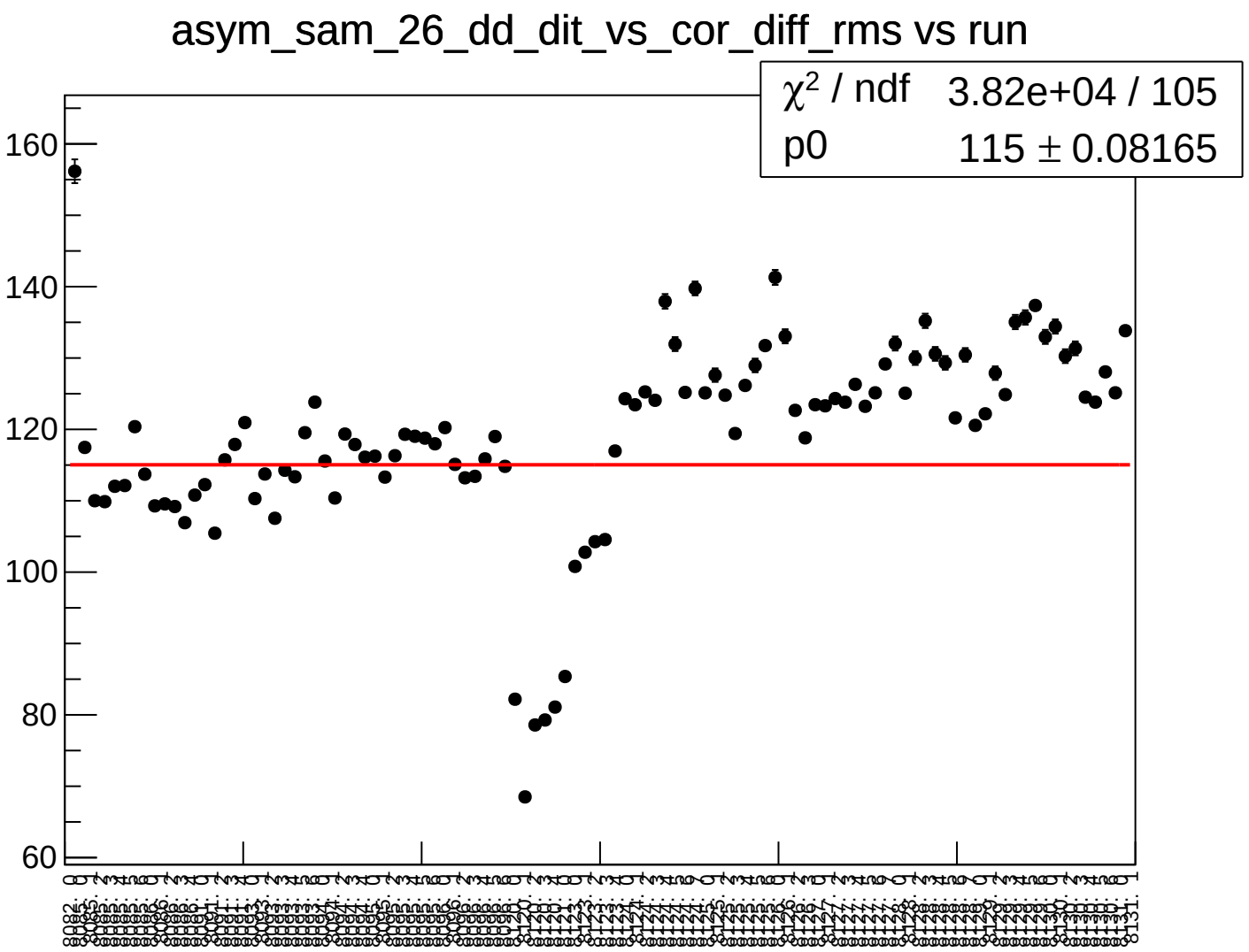

asym_sam_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 64.85 / 105
p0 −5.035e−13 ± 2.987e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 106
Mean 64.89
Std Dev 24.06
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

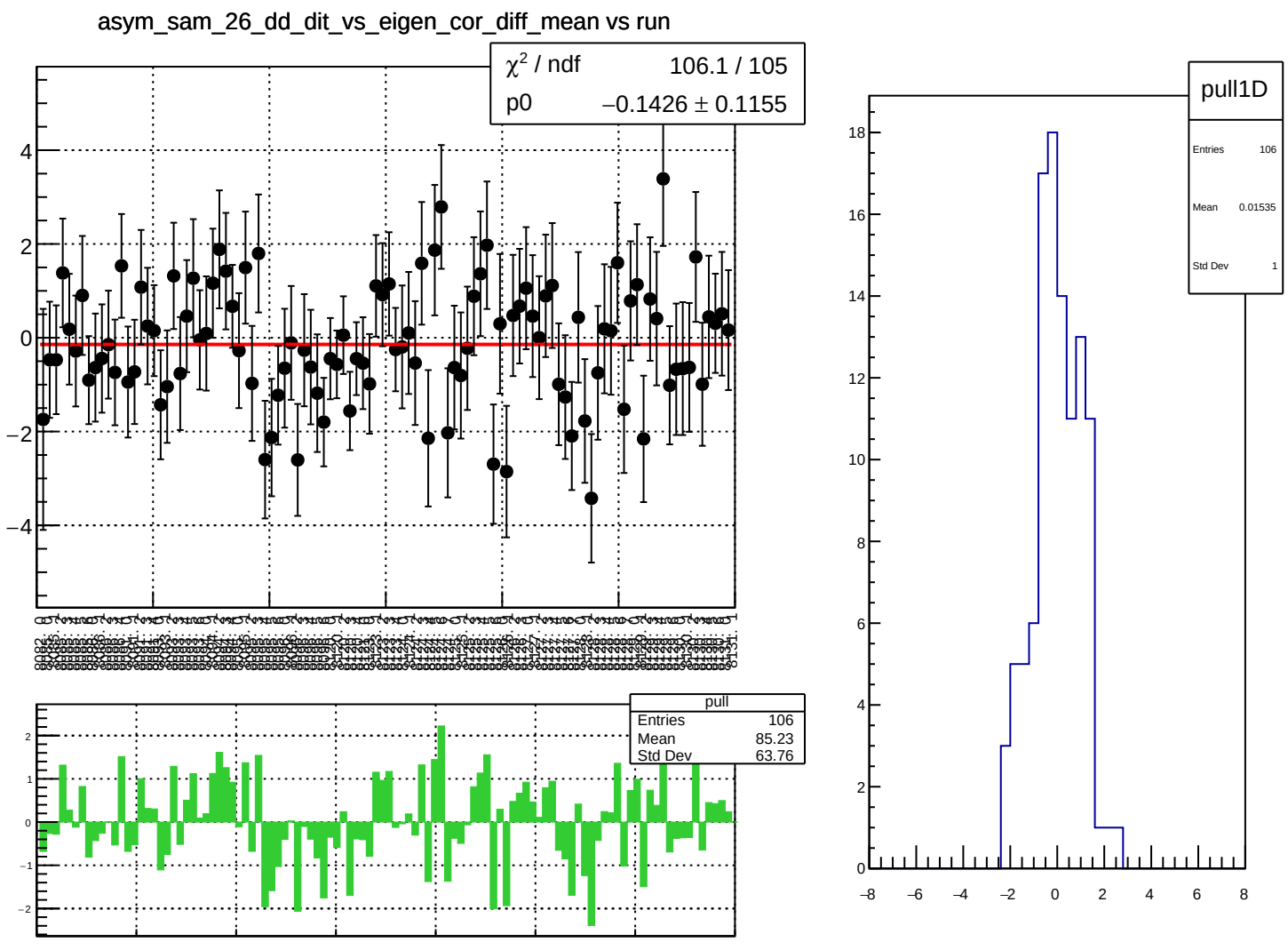

pull1D
Entries 106
Mean −0.04549
Std Dev 0.7809
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

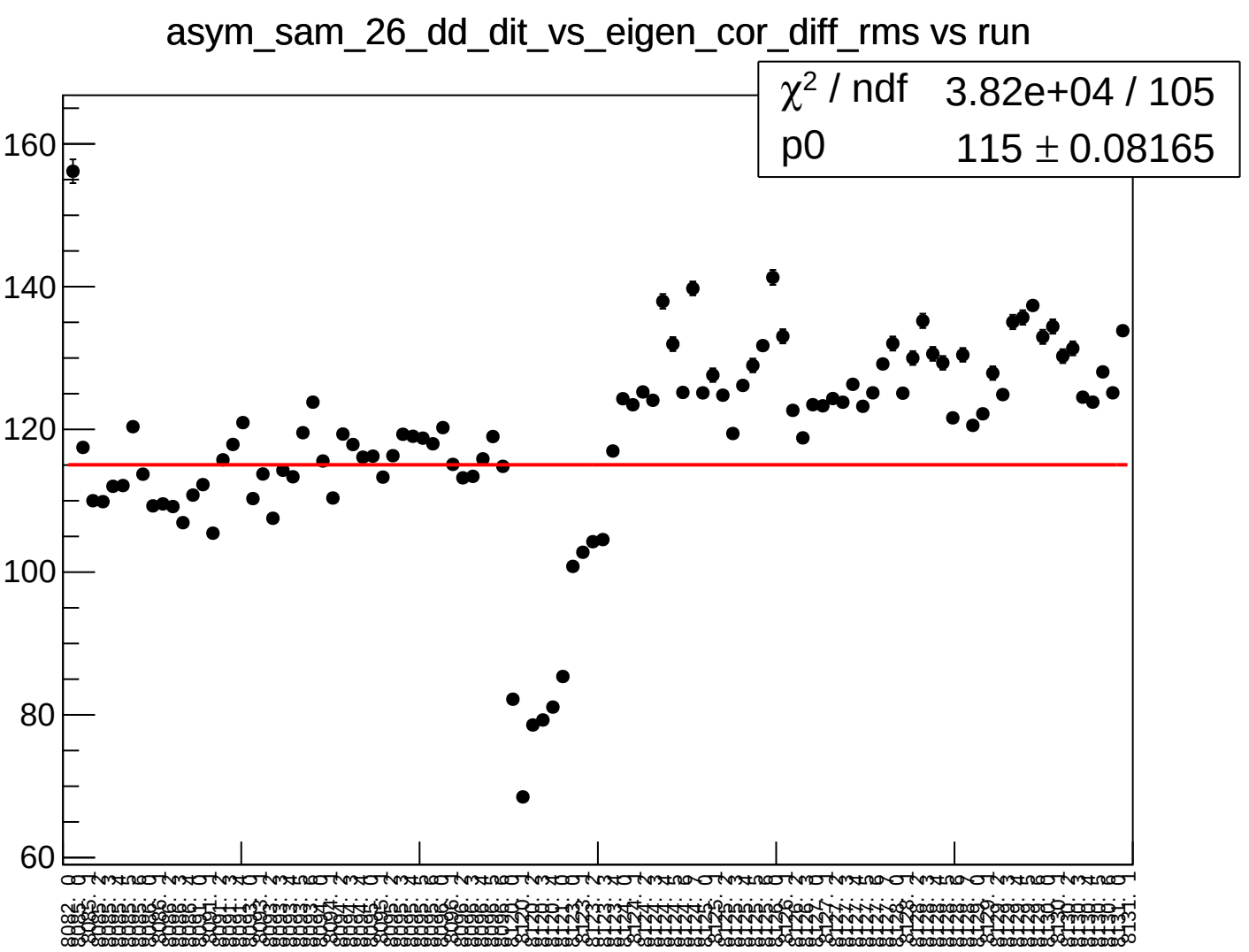

asym_sam_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.264e+05 / 105
p0 2.212e−10 ± 2.112e−13
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

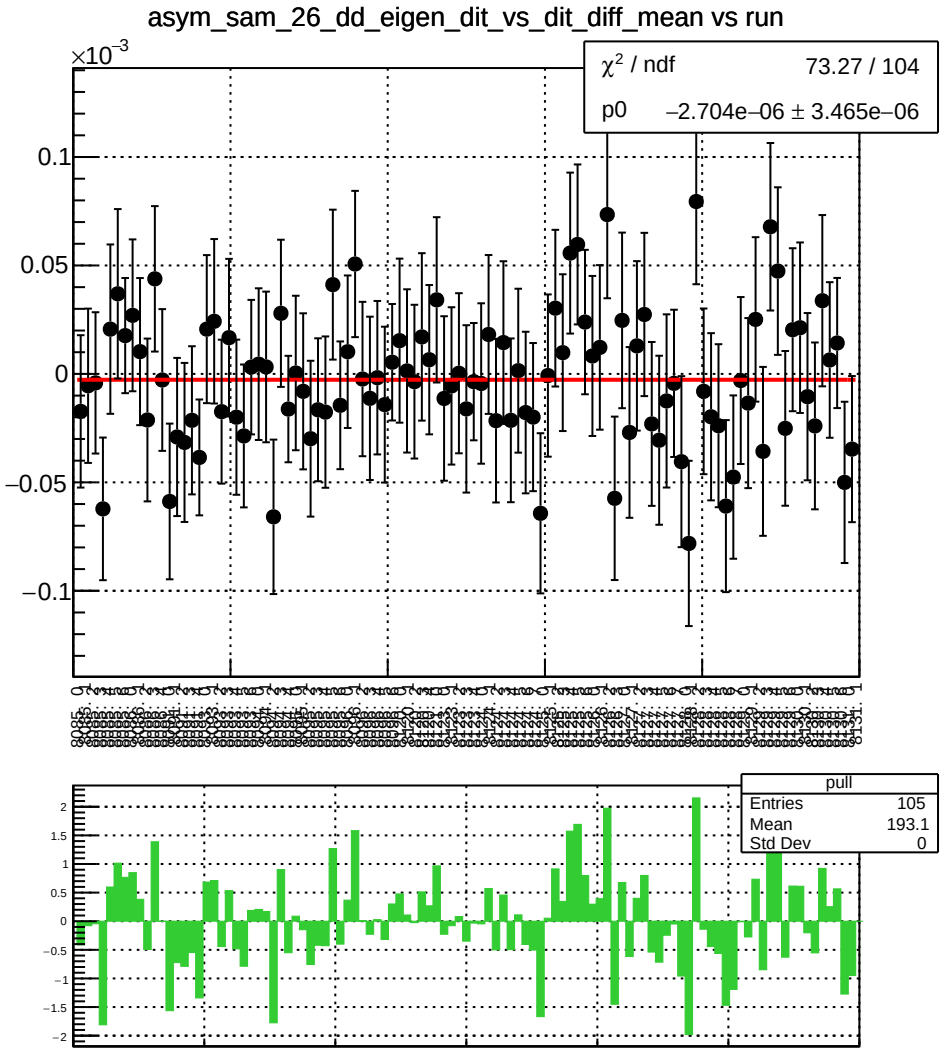

asym_sam_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 106.1 / 105
p0 −0.1426 ± 0.1155
pull
Entries 106
Mean 85.23
Std Dev 63.76

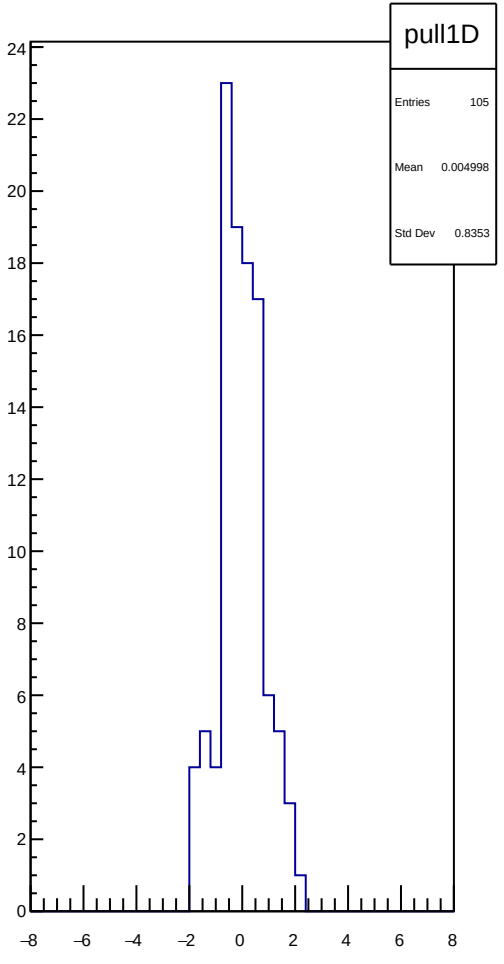

pull1D
Entries 106
Mean 0.01535
Std Dev 1

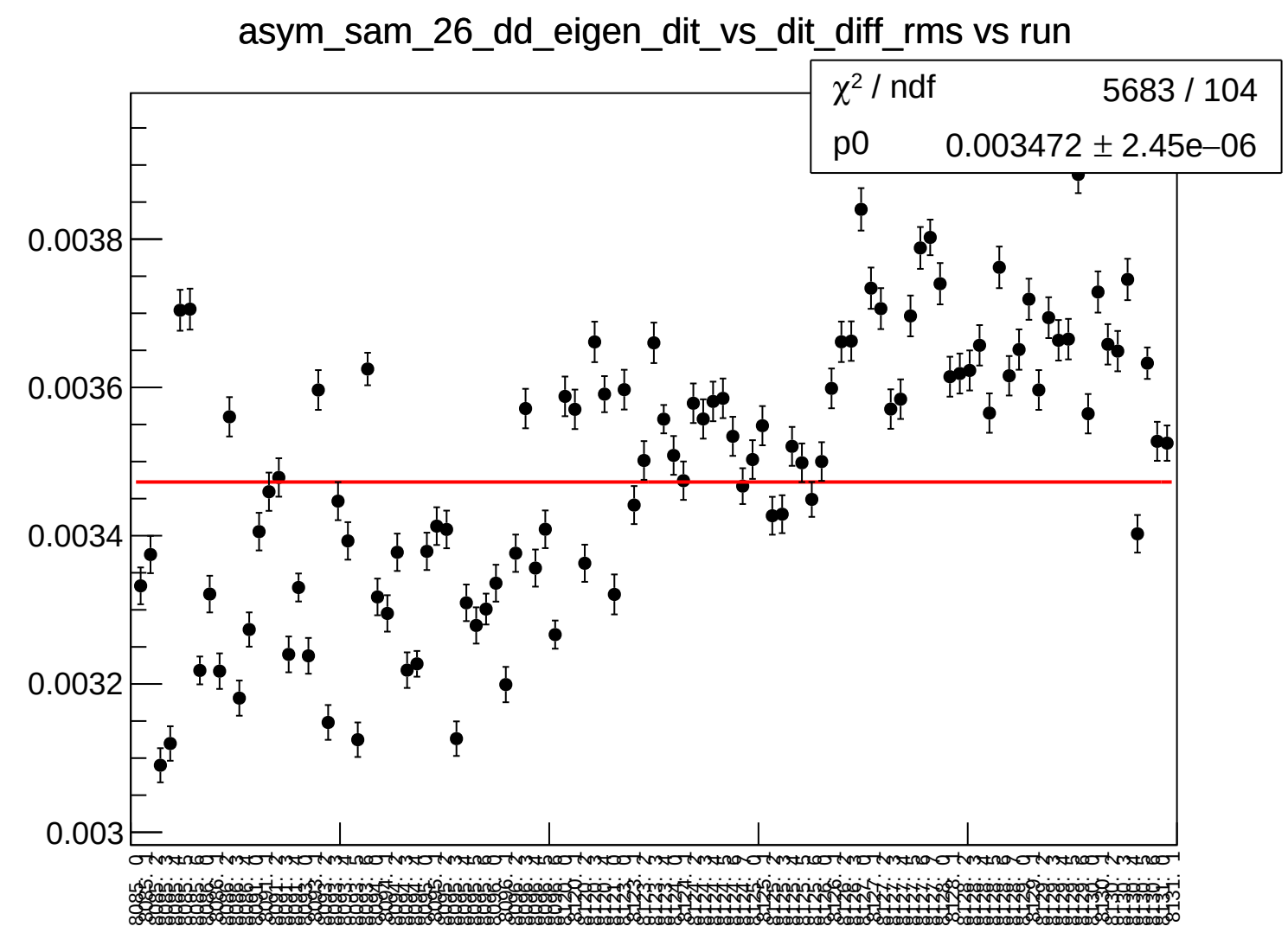

asym_sam_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.82e+04 / 105
p0 115 ± 0.08165
160
140
120
100
80
60

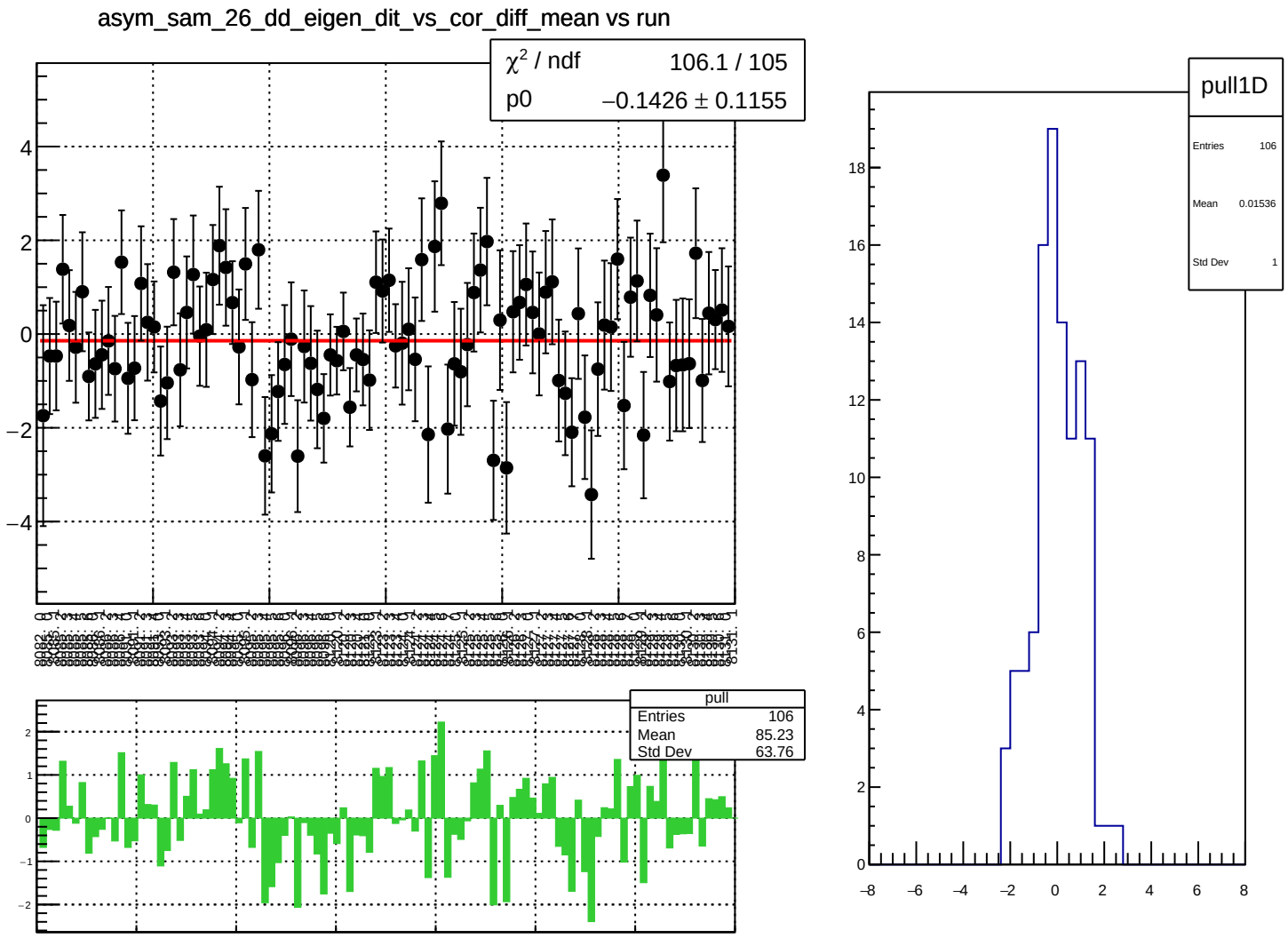

asym_sam_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.1 / 105
p0 −0.1426 ± 0.1155
pull
Entries 106
Mean 85.23
Std Dev 63.76
pull1D
Entries 106
Mean 0.01535
Std Dev 1

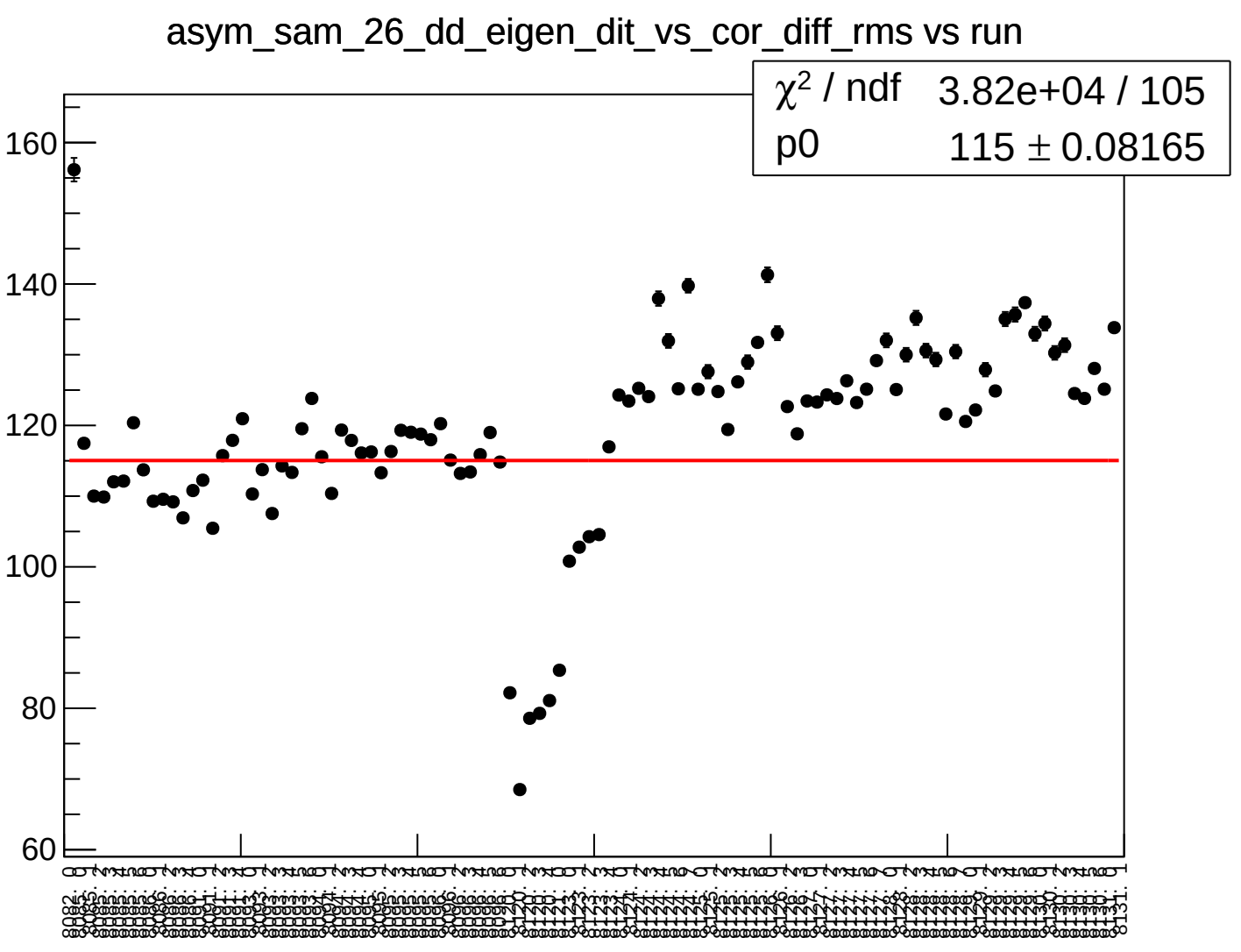

asym_sam_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.82e+04 / 105
p0 115 ± 0.08165
160
140
120
100
80
60

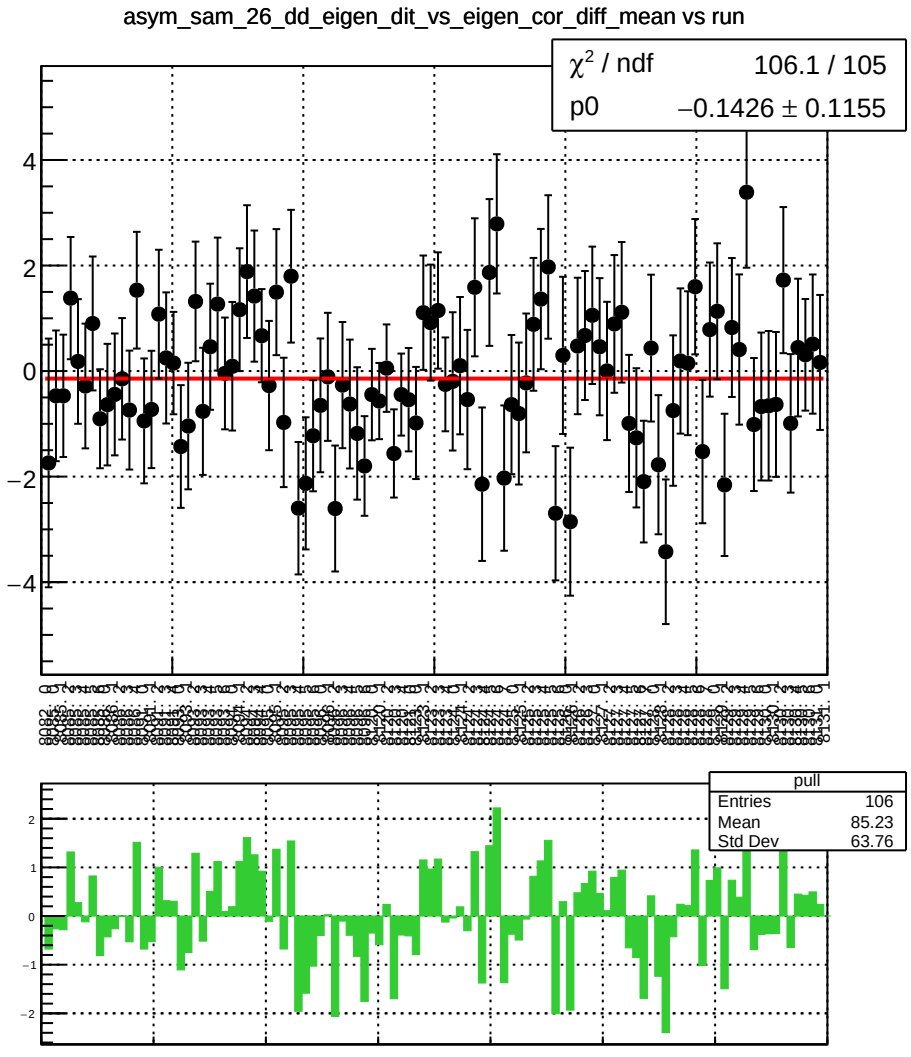

asym_sam_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.27 / 104
p0 −2.704e−06 ± 3.465e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 105
Mean 193.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

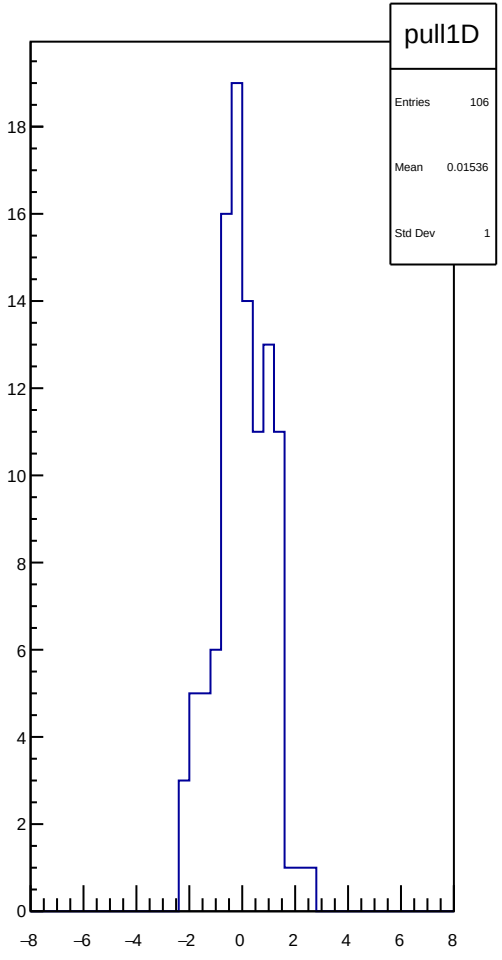

pull1D
Entries 105
Mean 0.004998
Std Dev 0.8353
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

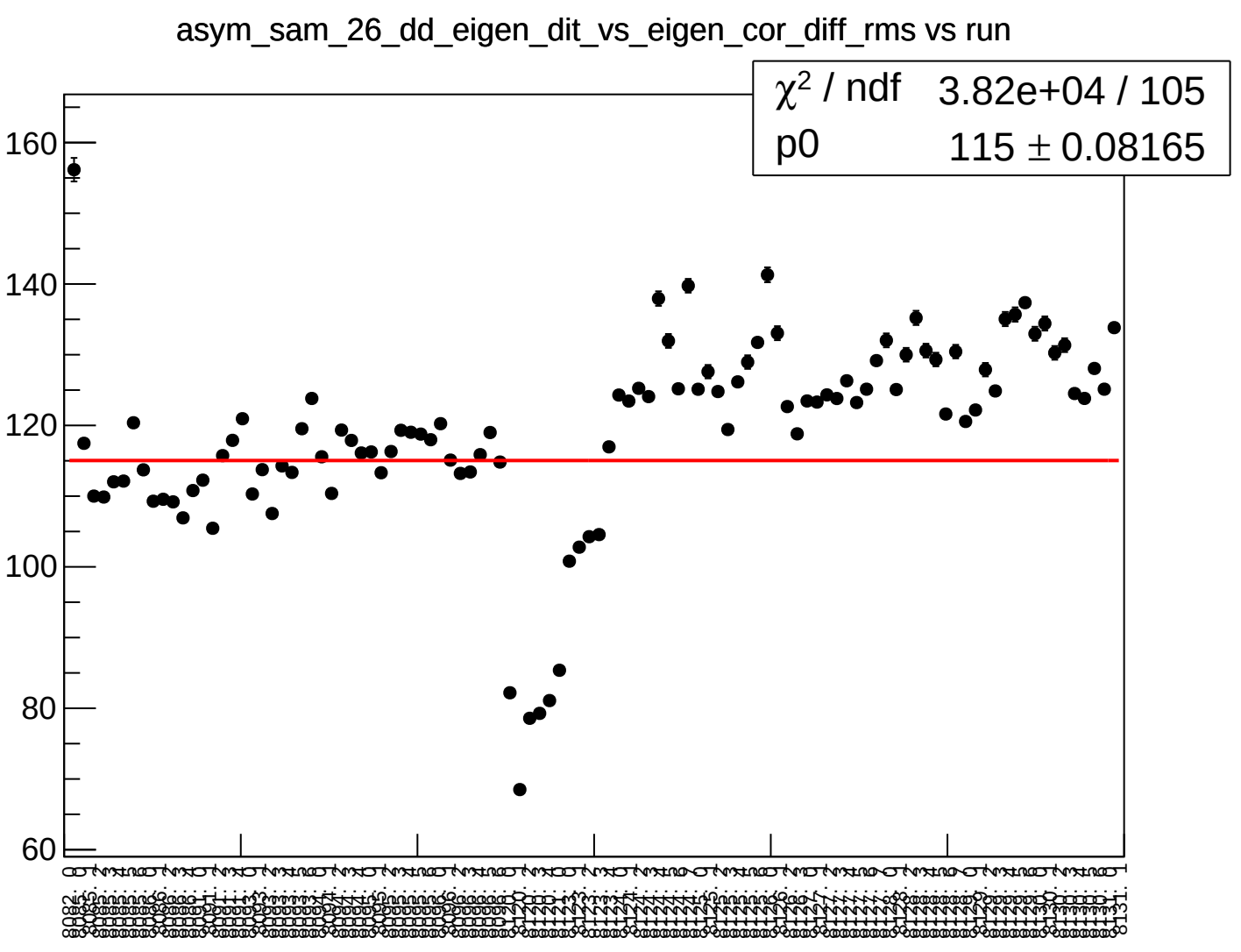

asym_sam_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5683 / 104
p0 0.003472 ± 2.45e−06
0.0038
0.0036
0.0034
0.0032
0.003

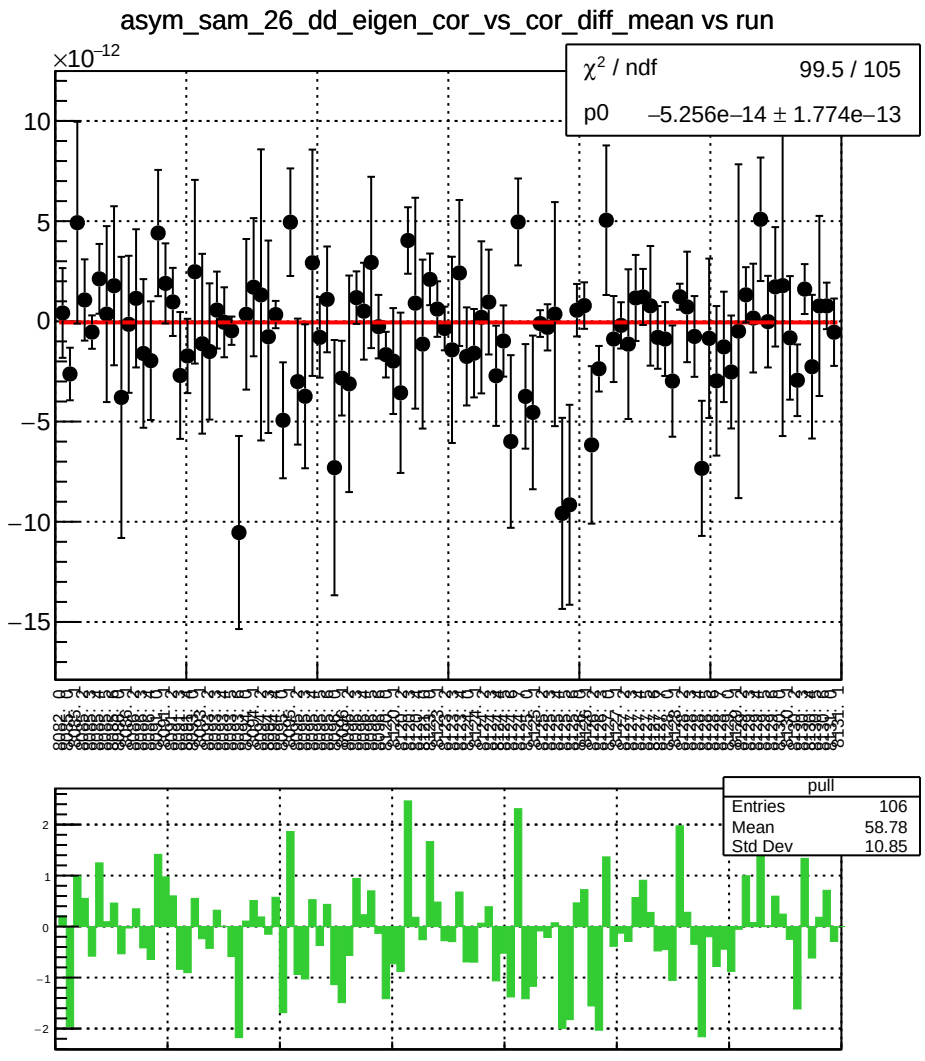

asym_sam_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 106.1 / 105
p0 −0.1426 ± 0.1155
pull
Entries 106
Mean 85.23
Std Dev 63.76
pull1D
Entries 106
Mean 0.01536
Std Dev 1

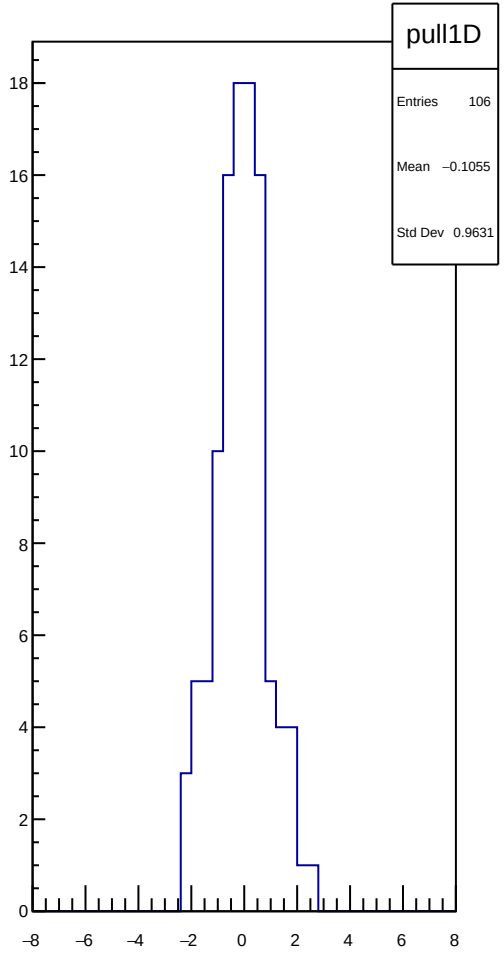

asym_sam_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.82e+04 / 105
p0 115 ± 0.08165
160
140
120
100
80
60

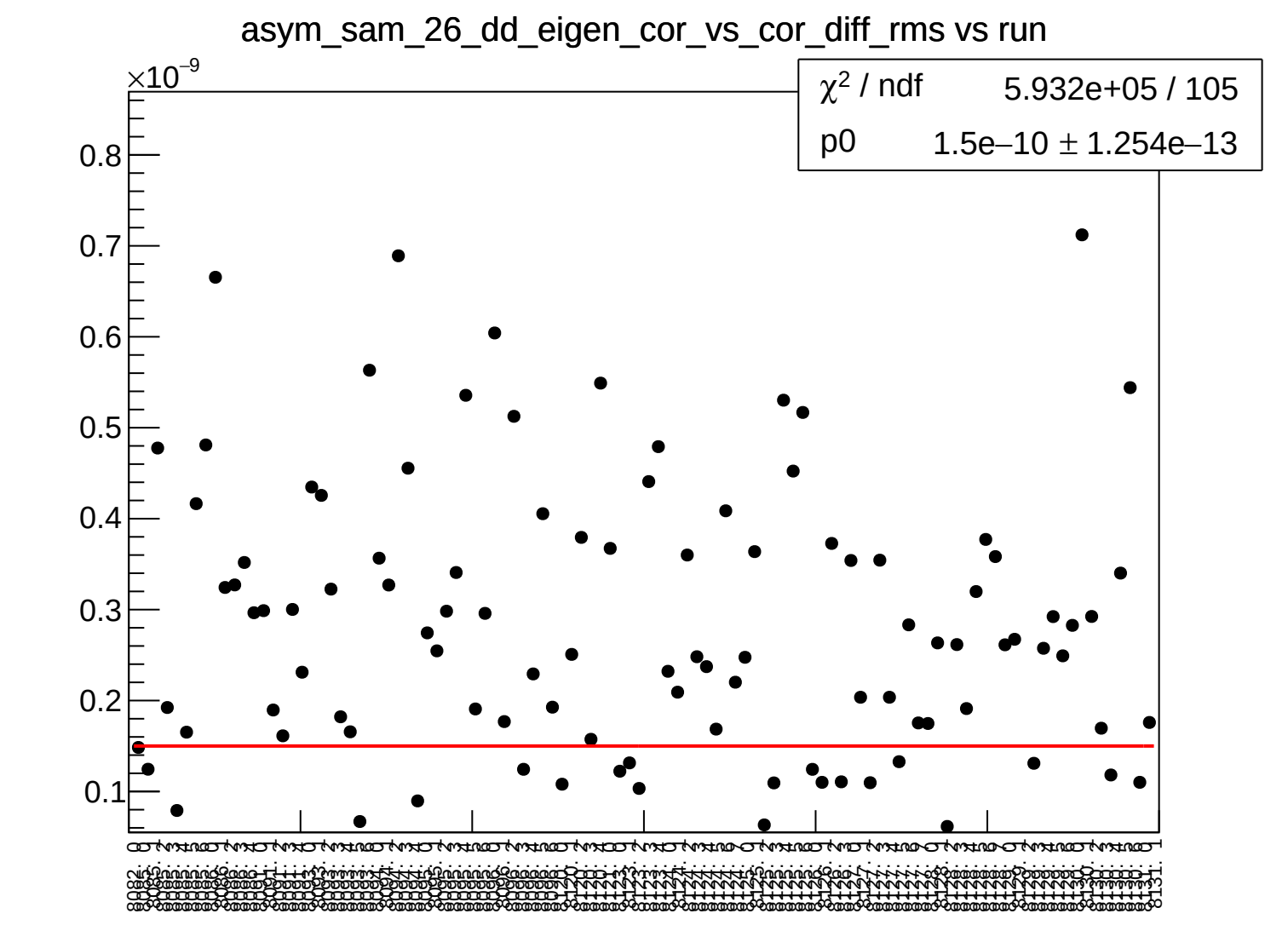

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.1 / 105
p0 −0.1426 ± 0.1155
pull
Entries 106
Mean 85.23
Std Dev 63.76

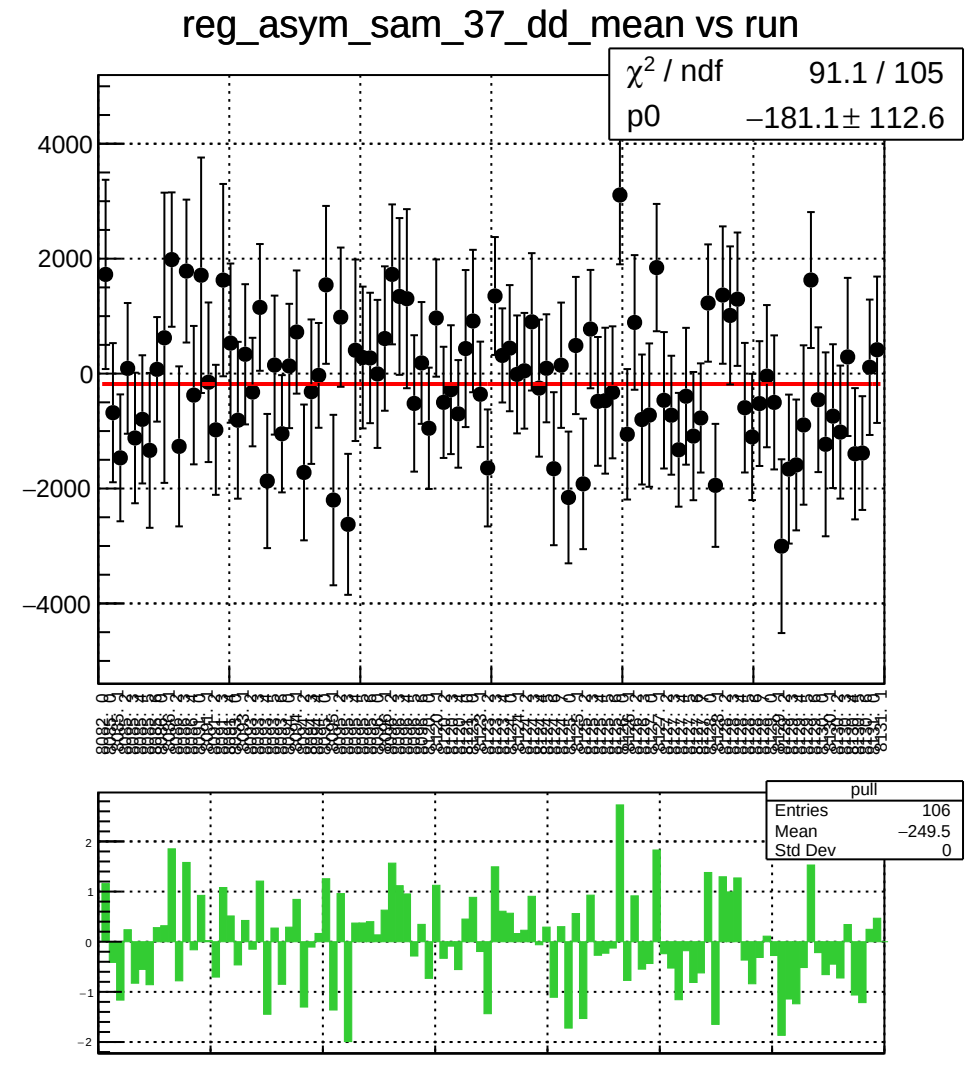

pull1D
Entries 106
Mean 0.01536
Std Dev 1

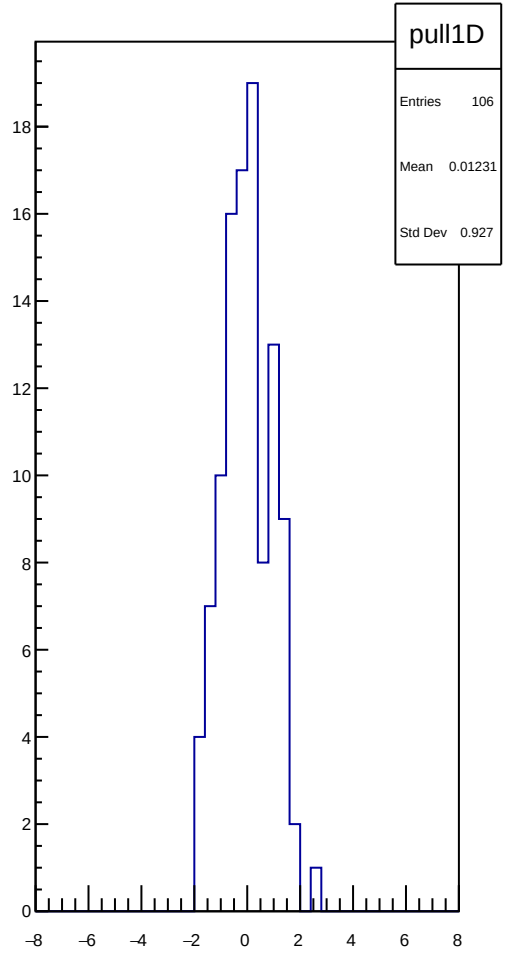

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.82e+04 / 105
p0 115 ± 0.08165
160
140
120
100
80
60

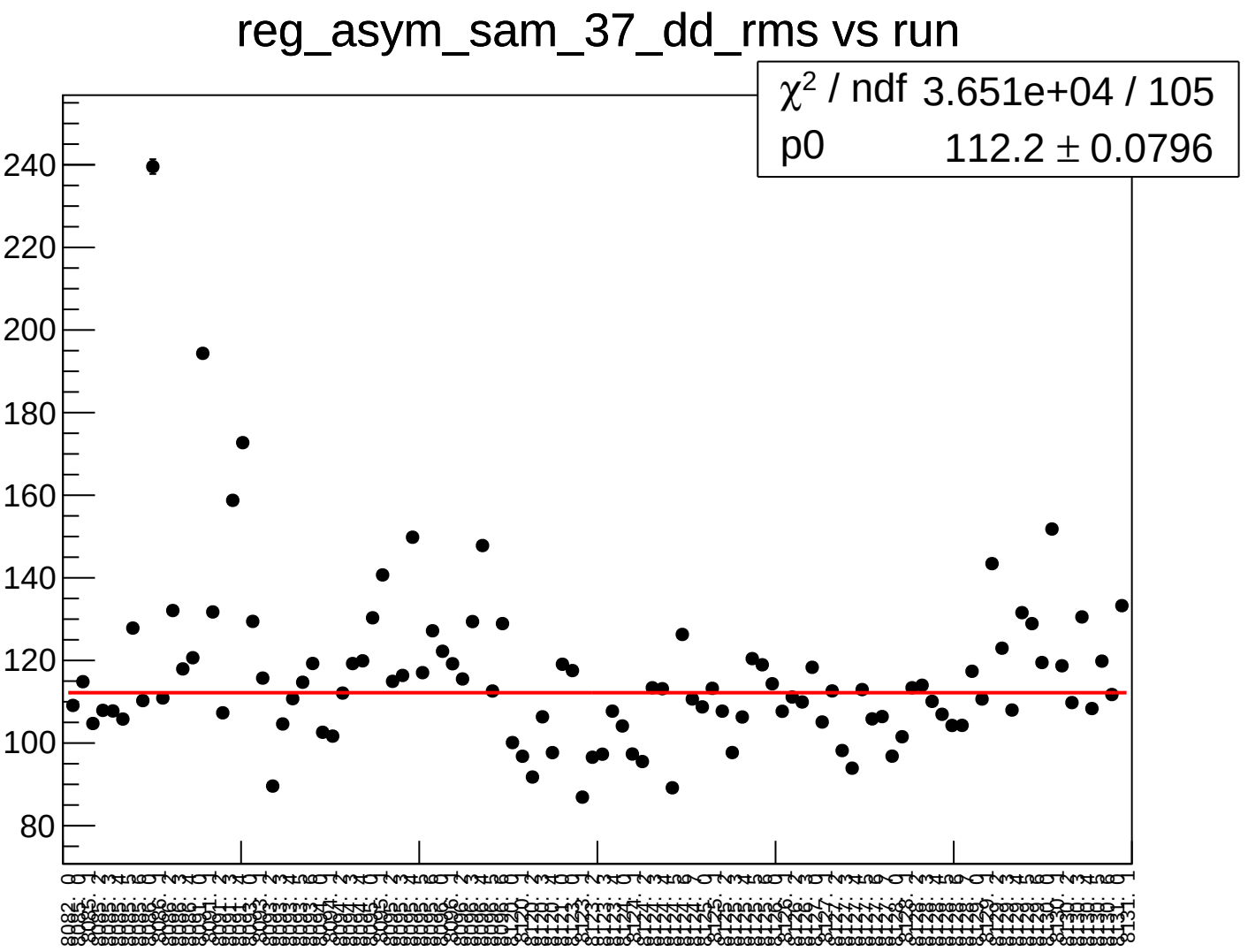

asym_sam_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.5 / 105
p0 −5.256e−14 ± 1.774e−13
pull
Entries 106
Mean 58.78
Std Dev 10.85

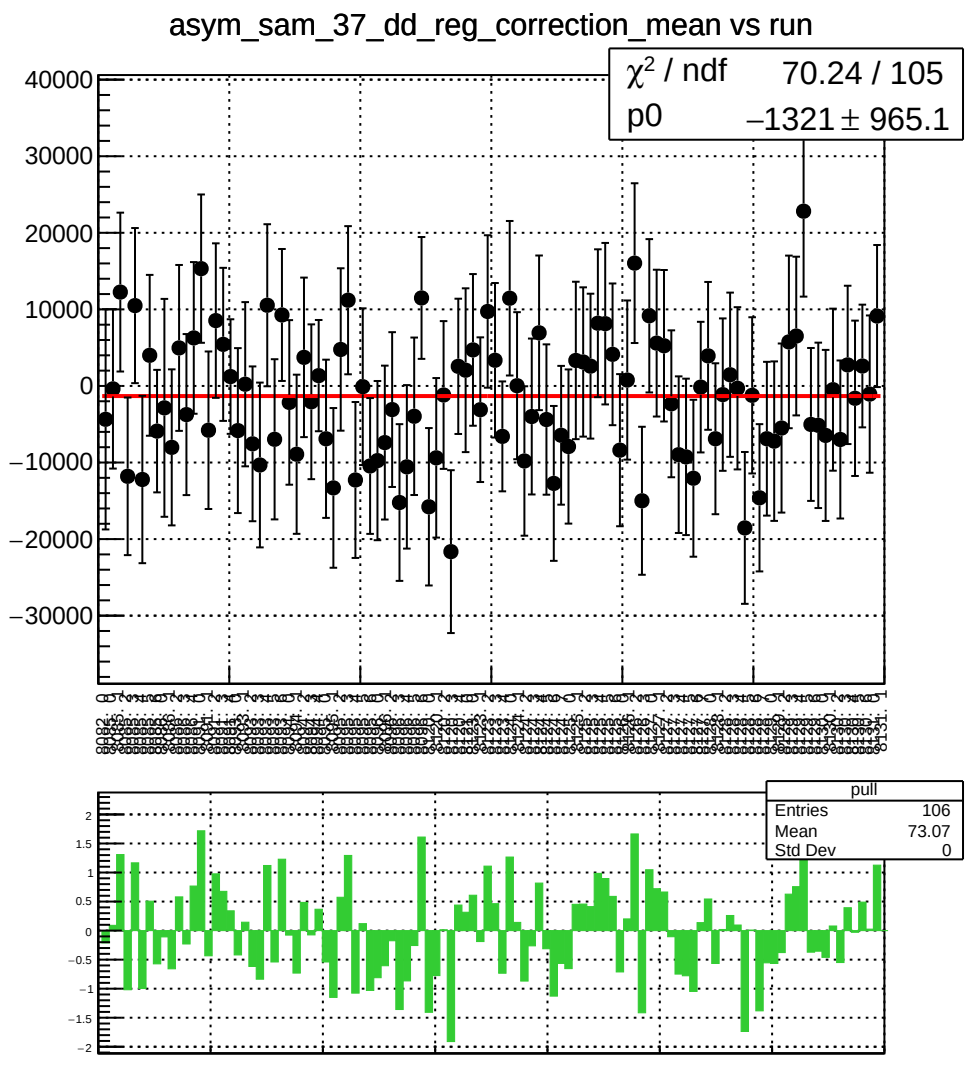

pull1D
Entries 106
Mean −0.1055
Std Dev 0.9631

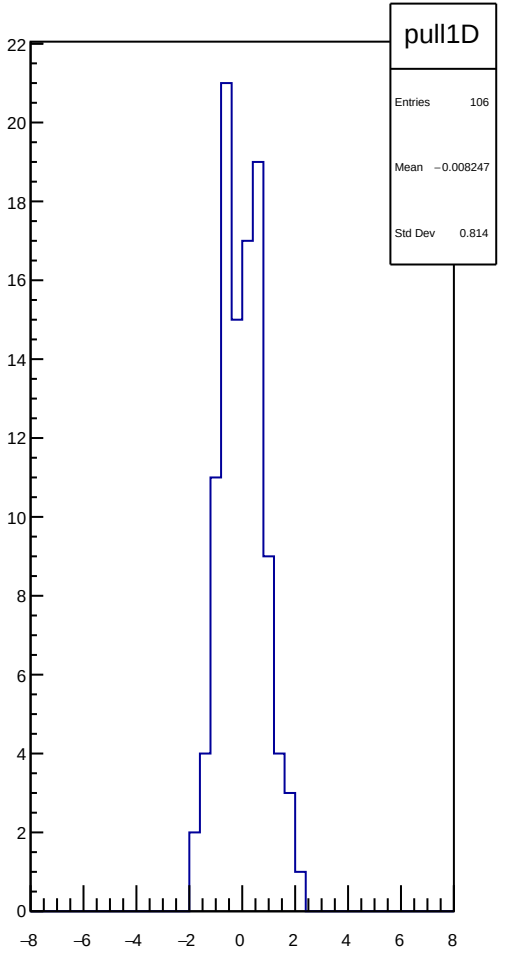

asym_sam_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.932e+05 / 105
p0 1.5e−10 ± 1.254e−13
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

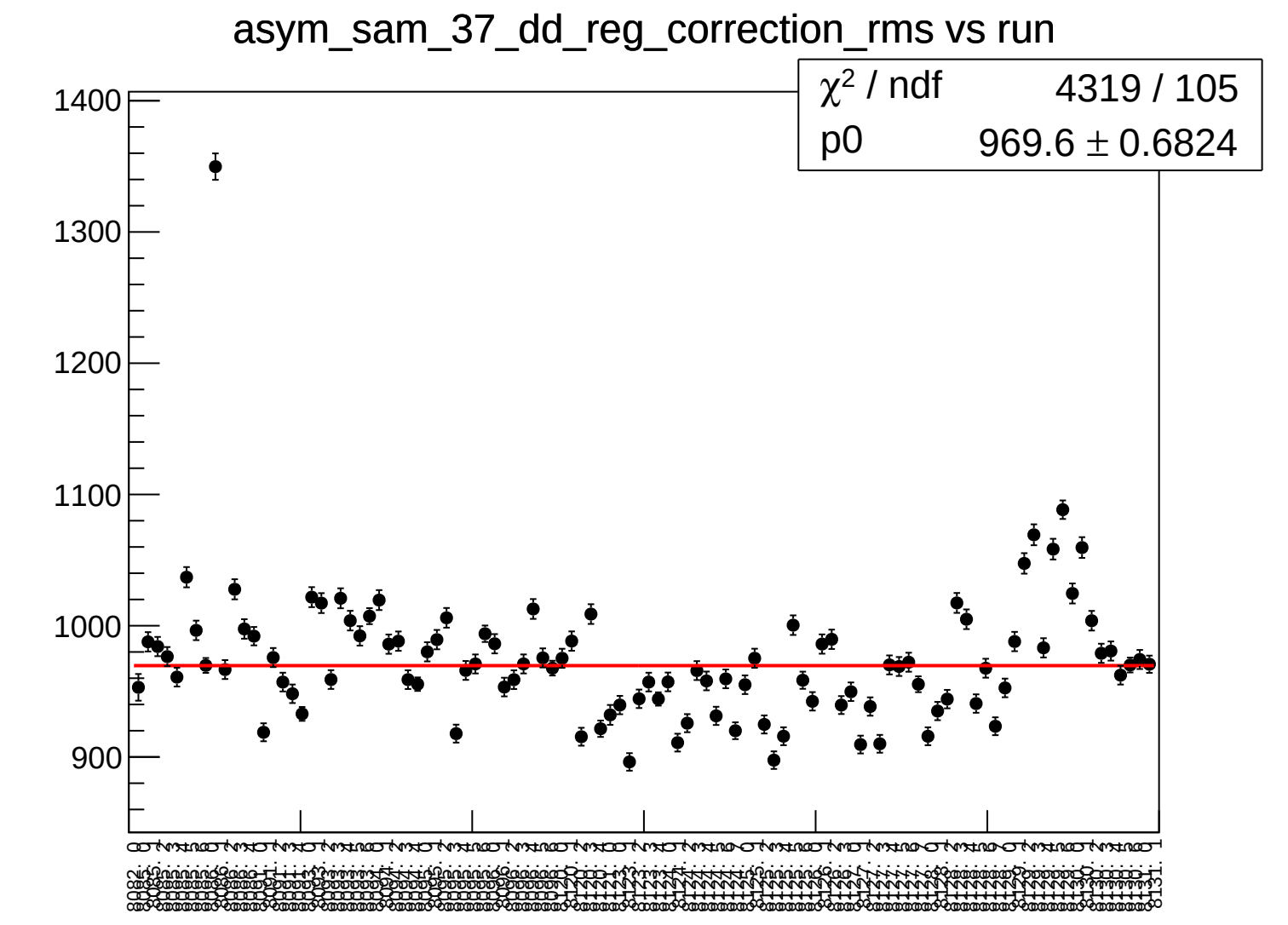

reg_asym_sam_37_dd_mean vs run
χ² / ndf 91.1 / 105
p0 −181.1 ± 112.6
4000
2000
0
−2000
−4000
pull
Entries 106
Mean −249.5
Std Dev 0
2
1
0
−1
−2

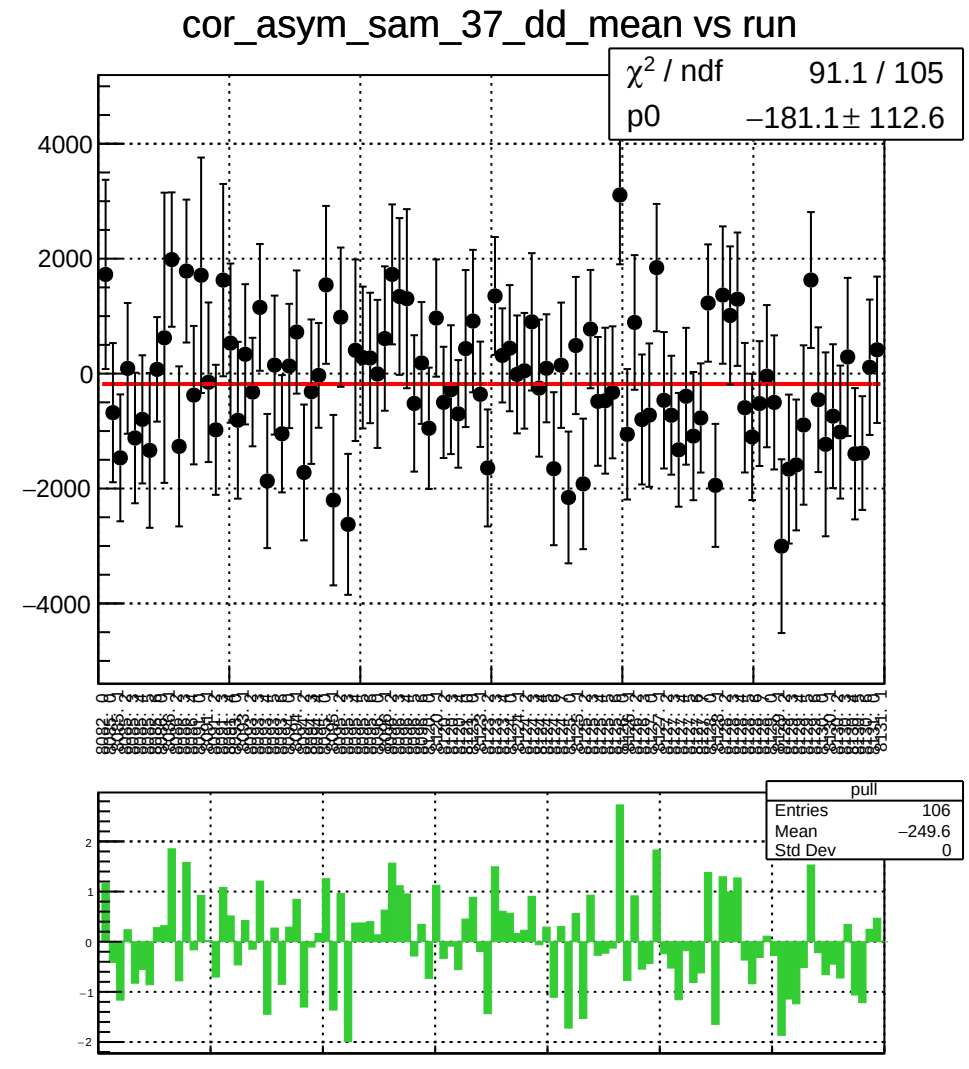

pull1D
Entries 106
Mean 0.01231
Std Dev 0.927
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

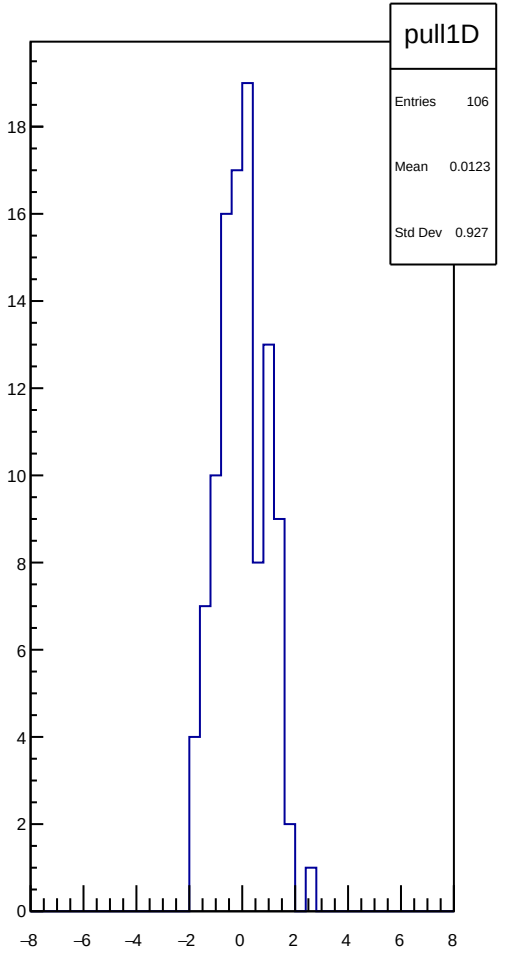

reg_asym_sam_37_dd_rms vs run
χ² / ndf 3.651e+04 / 105
p0 112.2 ± 0.0796
240
220
200
180
160
140
120
100
80

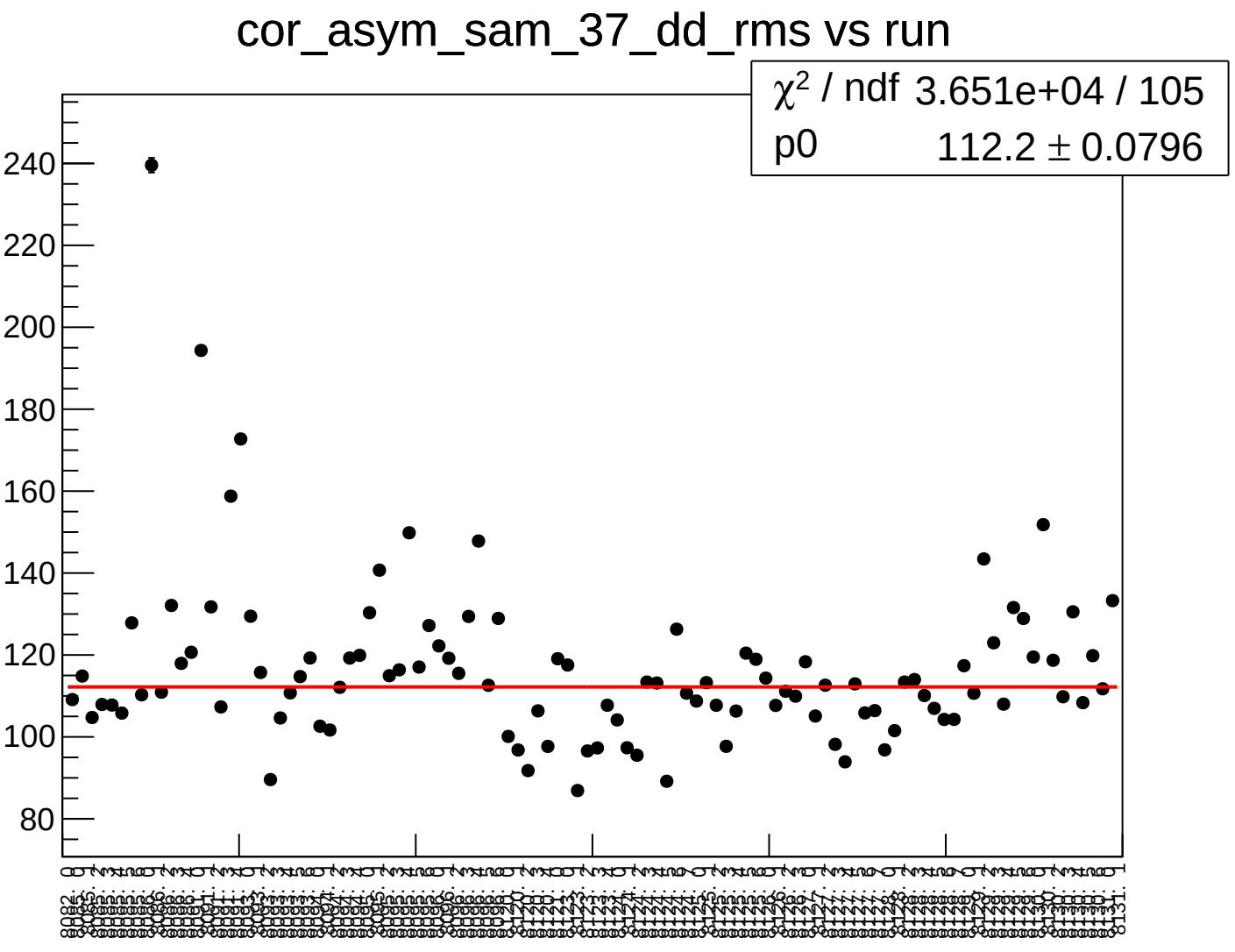

asym_sam_37_dd_reg_correction_mean vs run
χ² / ndf 70.24 / 105
p0 −1321 ± 965.1
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 106
Mean 73.07
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

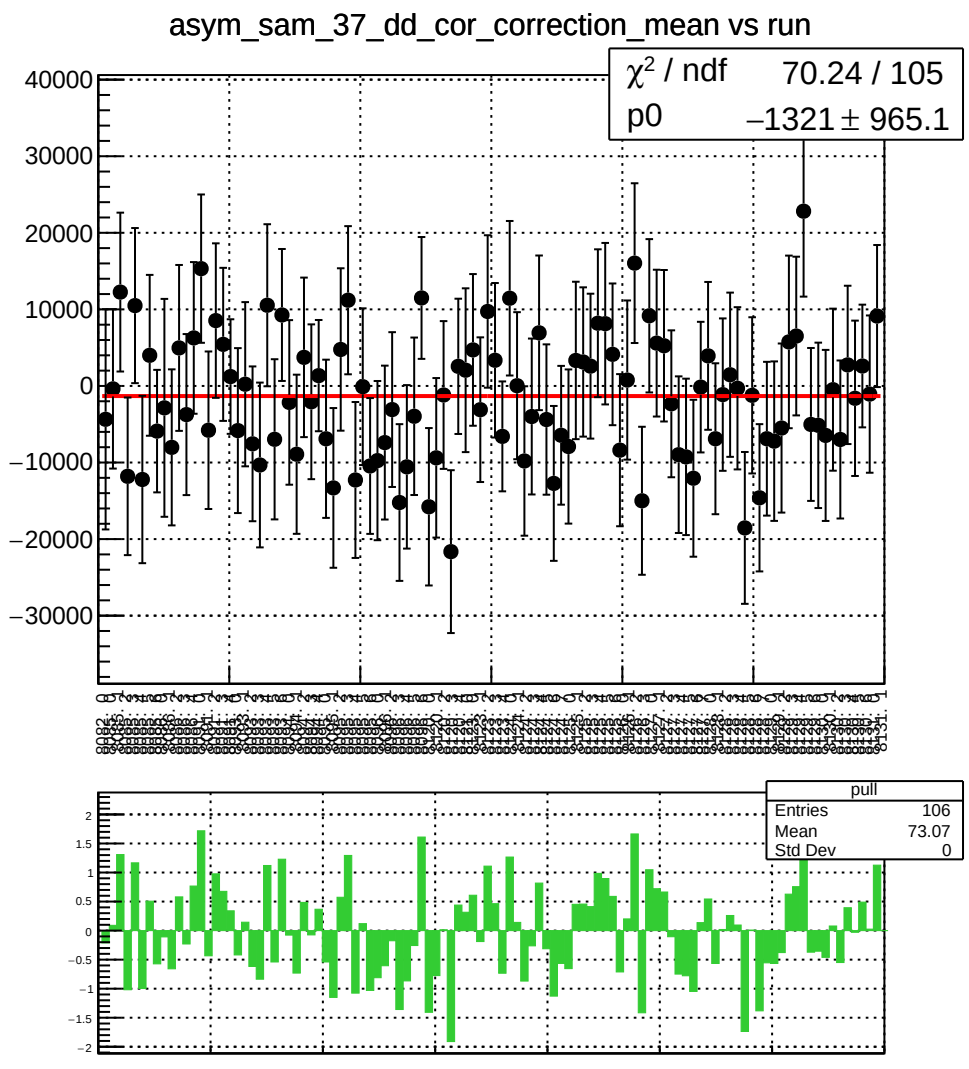

pull1D
Entries 106
Mean −0.008247
Std Dev 0.814
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

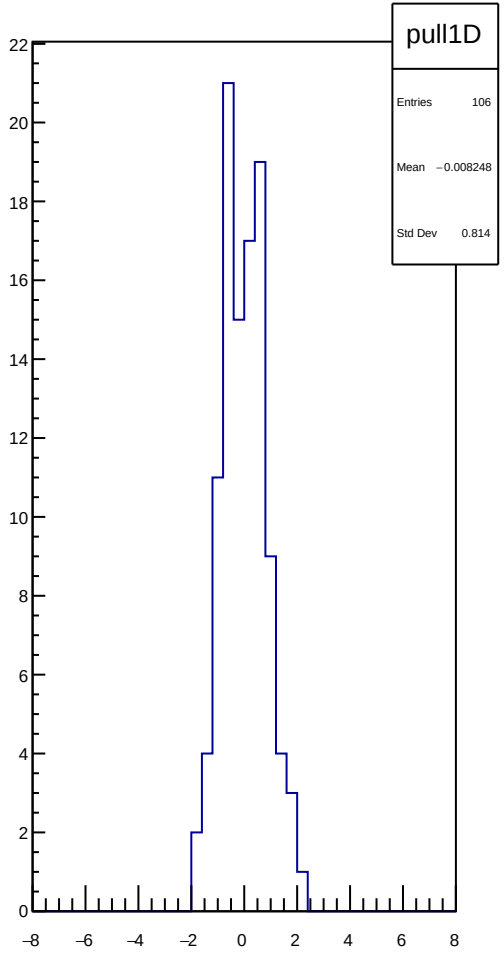

asym_sam_37_dd_reg_correction_rms vs run
χ² / ndf 4319 / 105
p0 969.6 ± 0.6824
1400
1300
1200
1100
1000
900

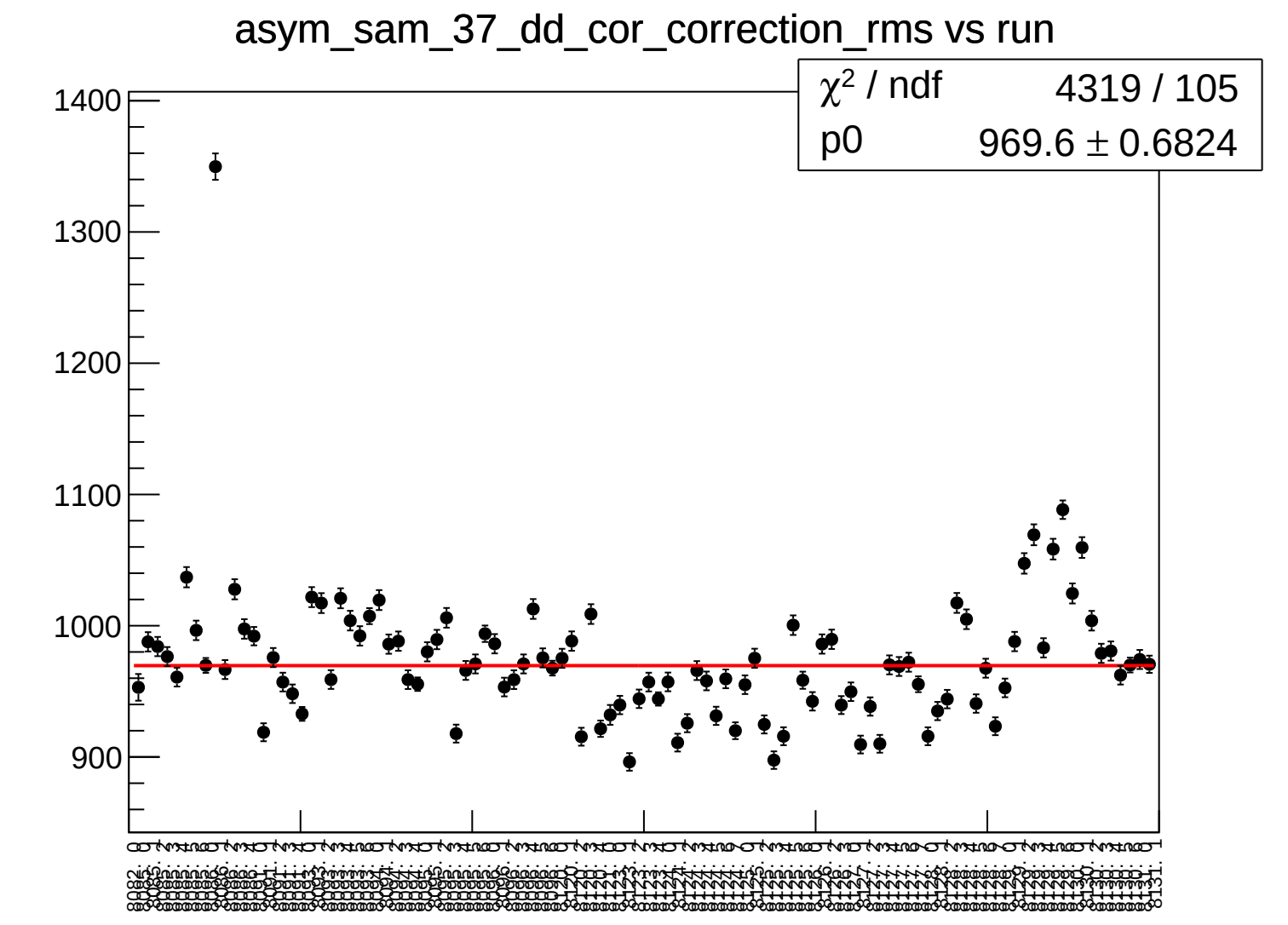

cor_asym_sam_37_dd_mean vs run
χ² / ndf 91.1 / 105
p0 −181.1± 112.6
4000
2000
0
−2000
−4000
pull
Entries 106
Mean −249.6
Std Dev 0
2
1
0
−1
−2

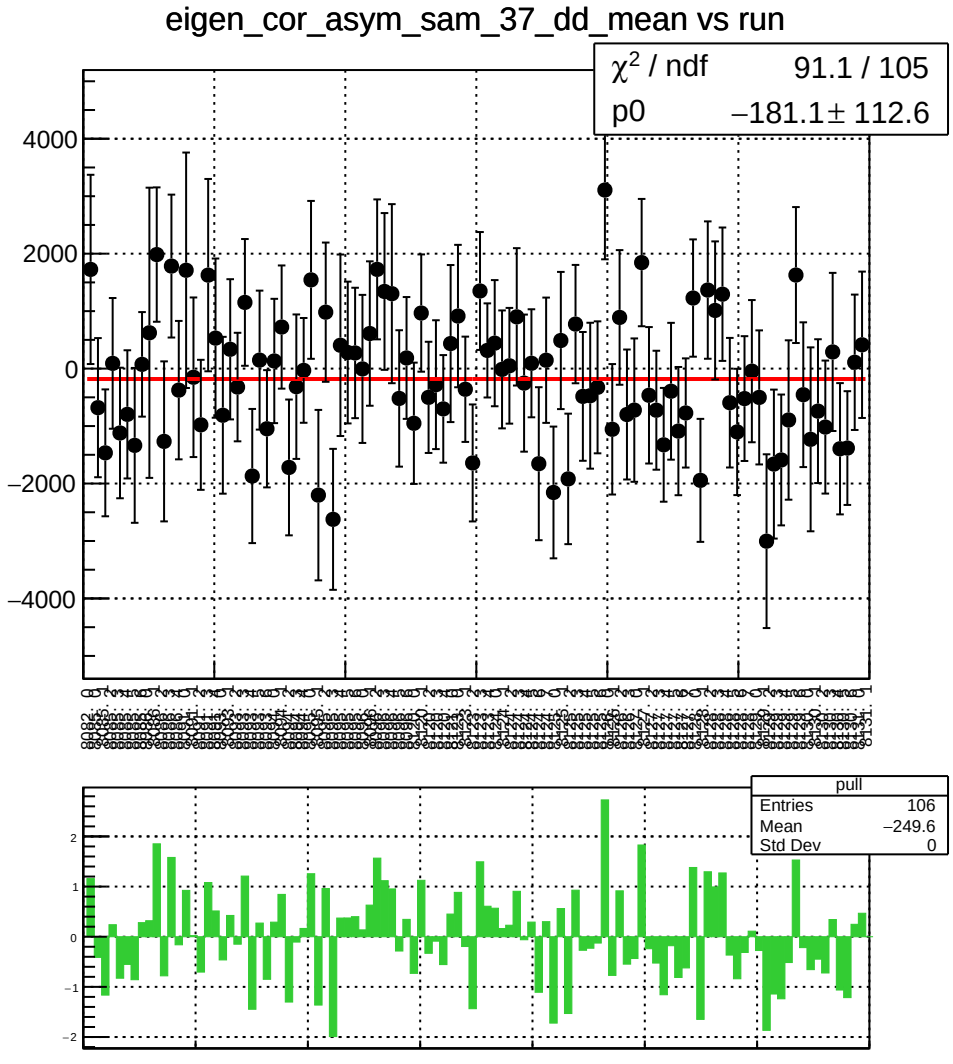

pull1D
Entries 106
Mean 0.0123
Std Dev 0.927
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

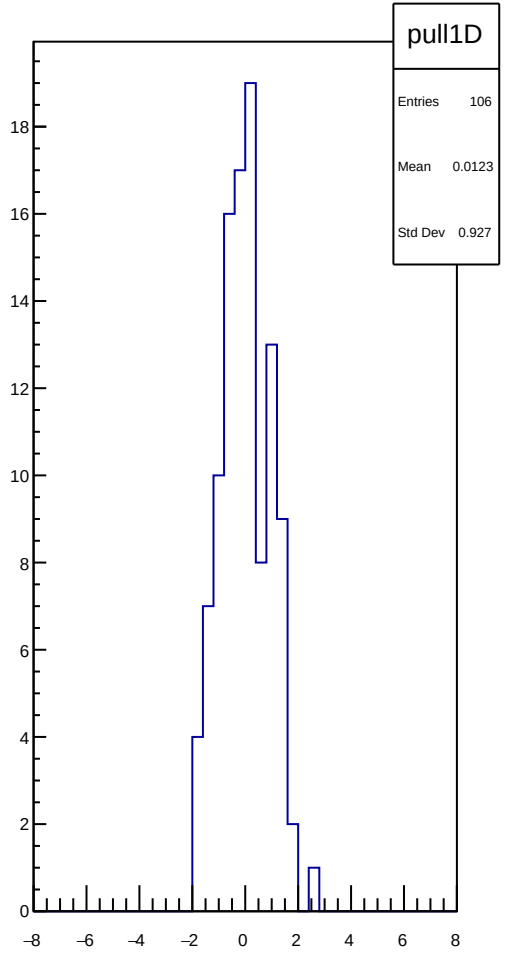

cor_asym_sam_37_dd_rms vs run
χ² / ndf 3.651e+04 / 105
p0 112.2 ± 0.0796
240
220
200
180
160
140
120
100
80

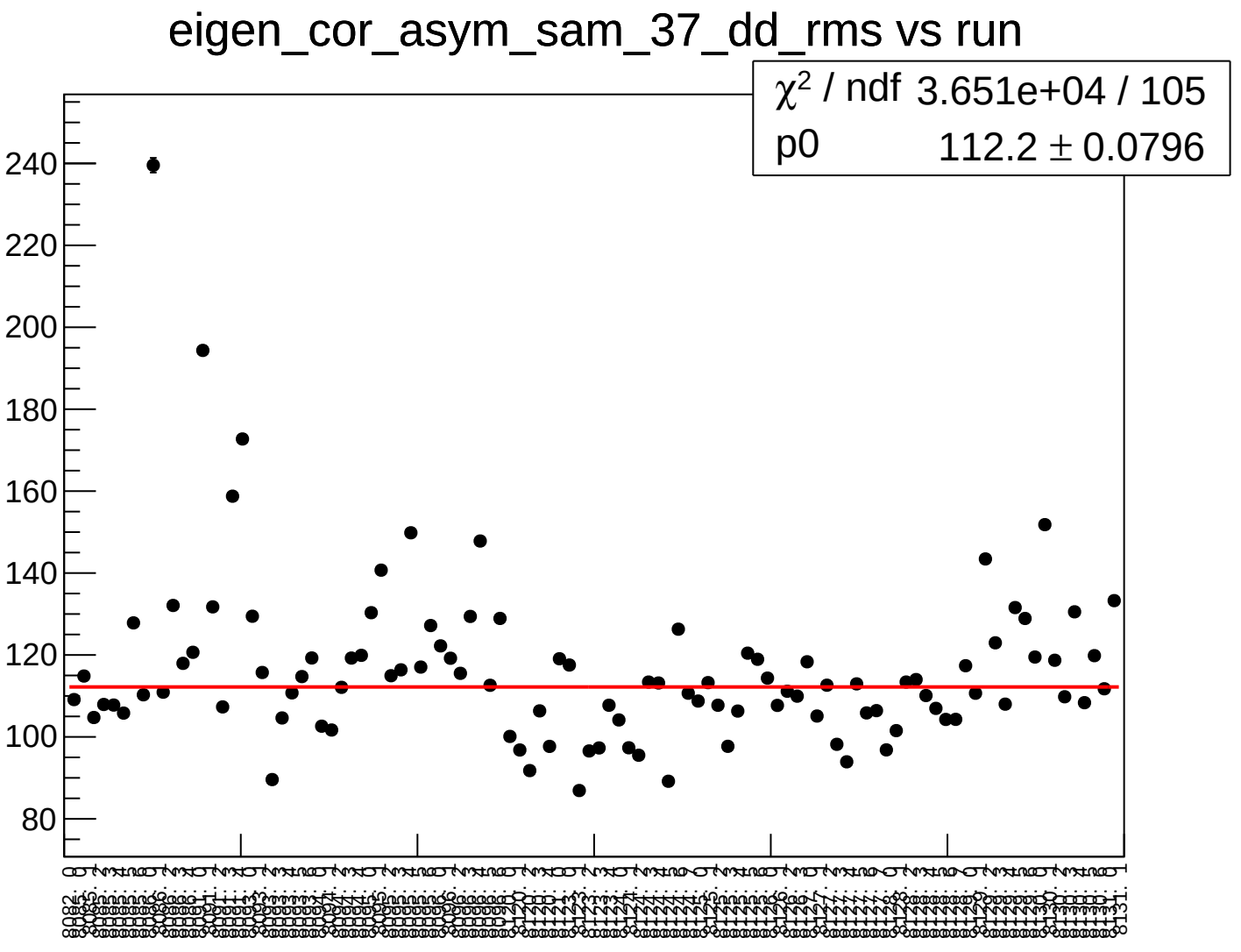

asym_sam_37_dd_cor_correction_mean vs run
χ² / ndf 70.24 / 105
p0 −1321 ± 965.1
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 106
Mean 73.07
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

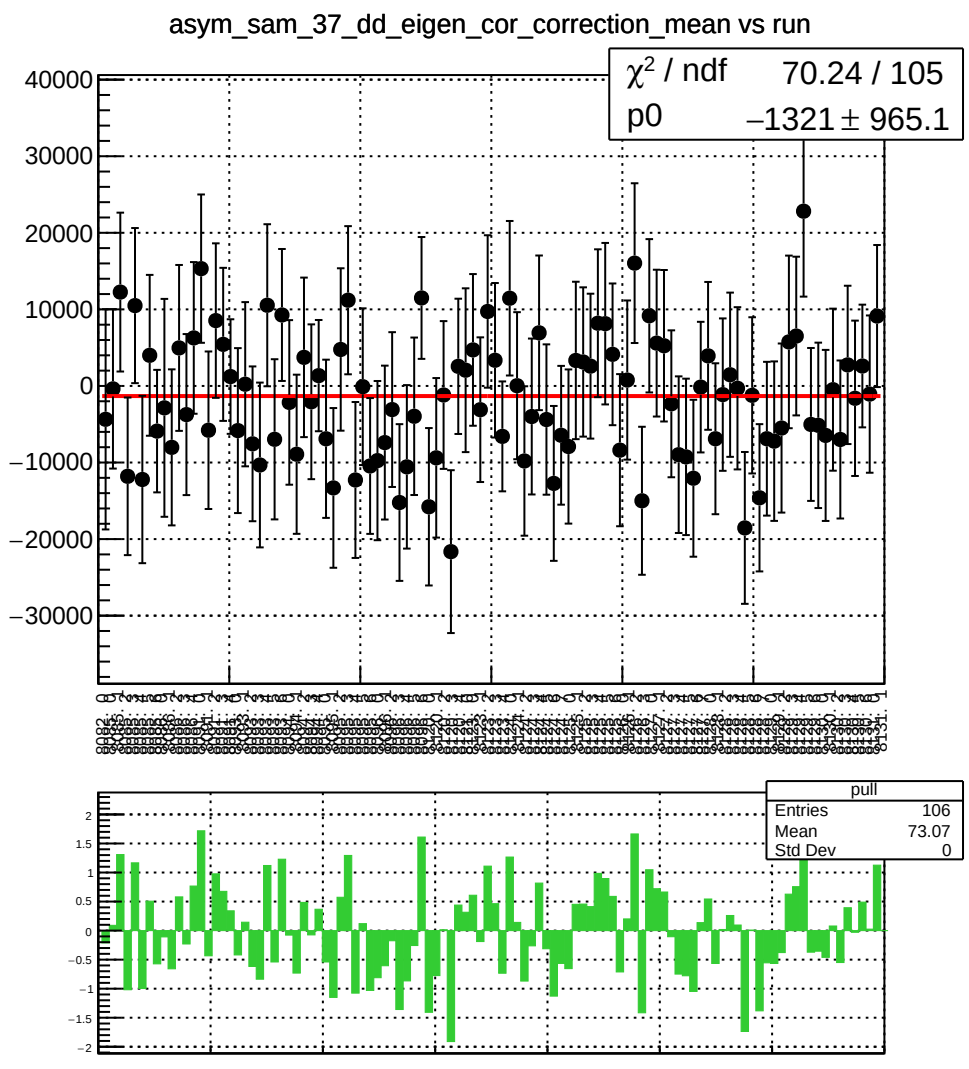

pull1D
Entries 106
Mean −0.008248
Std Dev 0.814
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

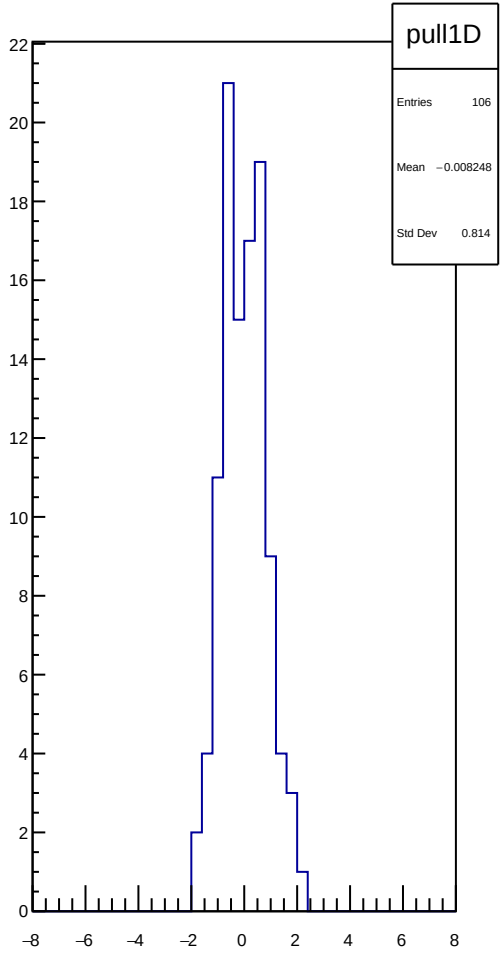

asym_sam_37_dd_cor_correction_rms vs run
χ² / ndf 4319 / 105
p0 969.6 ± 0.6824
1400
1300
1200
1100
1000
900

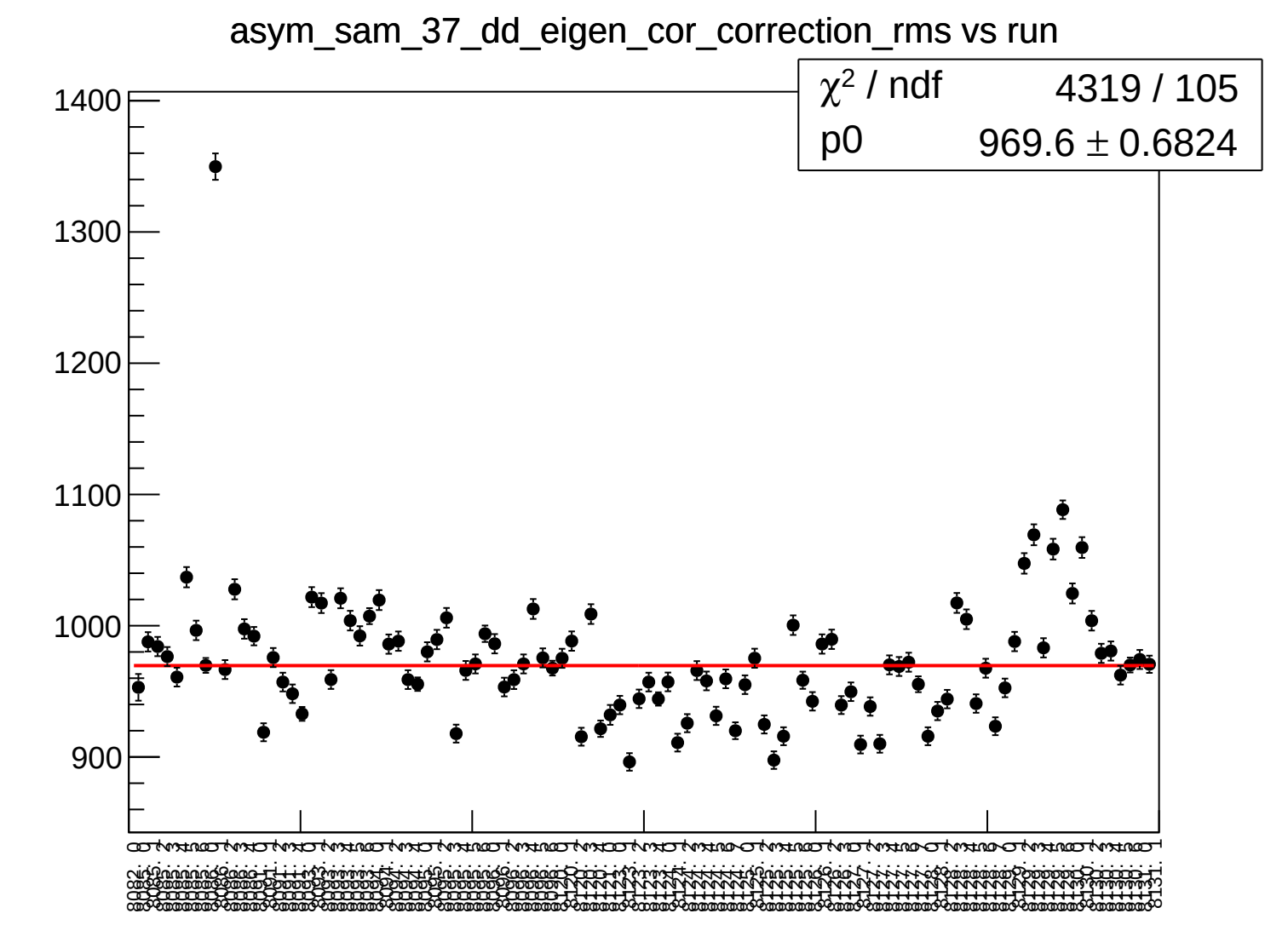

eigen_cor_asym_sam_37_dd_mean vs run
χ² / ndf 91.1 / 105
p0 −181.1± 112.6
4000
2000
0
−2000
−4000
pull
Entries 106
Mean −249.6
Std Dev 0
2
1
0
−1
−2

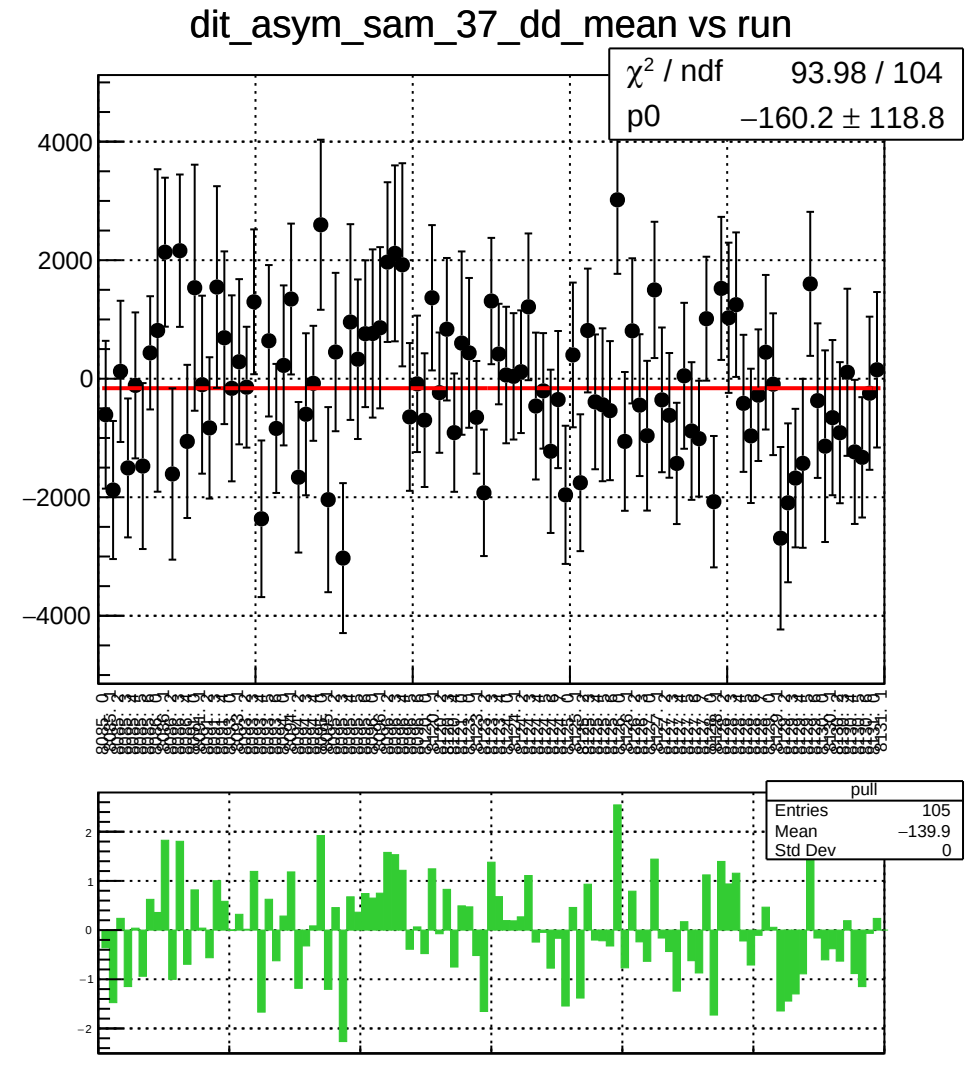

pull1D
Entries 106
Mean 0.0123
Std Dev 0.927
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

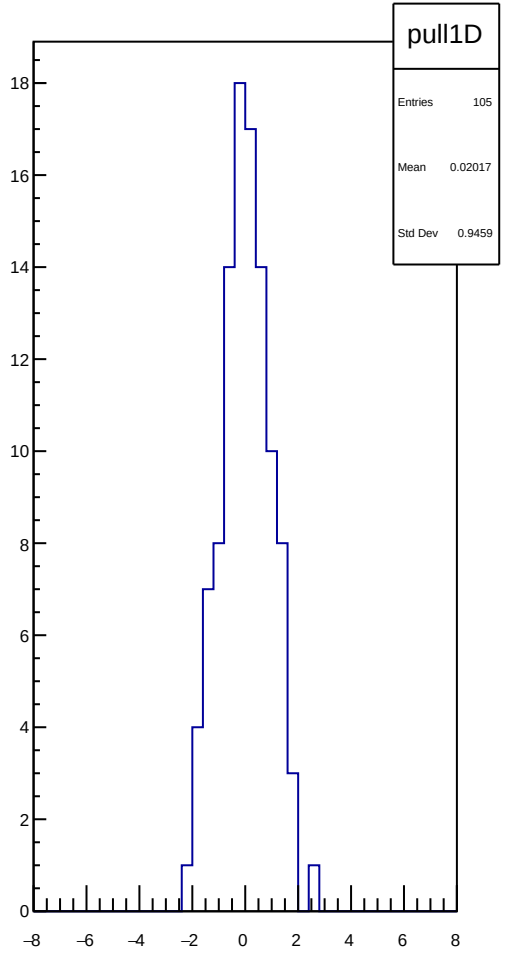

eigen_cor_asym_sam_37_dd_rms vs run
χ² / ndf 3.651e+04 / 105
p0 112.2 ± 0.0796
240
220
200
180
160
140
120
100
80

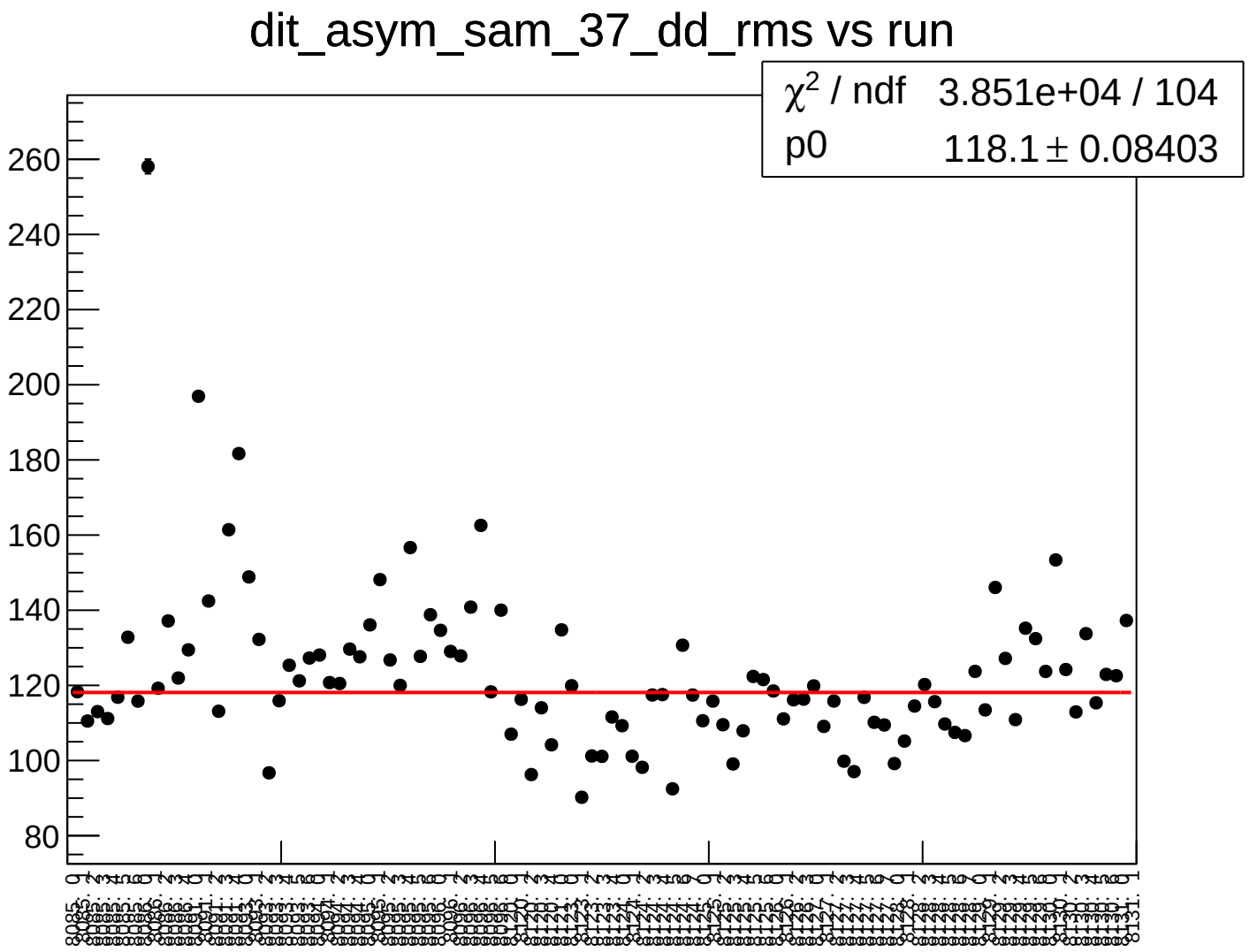

asym_sam_37_dd_eigen_cor_correction_mean vs run
$\chi^2$ / ndf 70.24 / 105
p0 −1321 ± 965.1
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 106
Mean 73.07
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

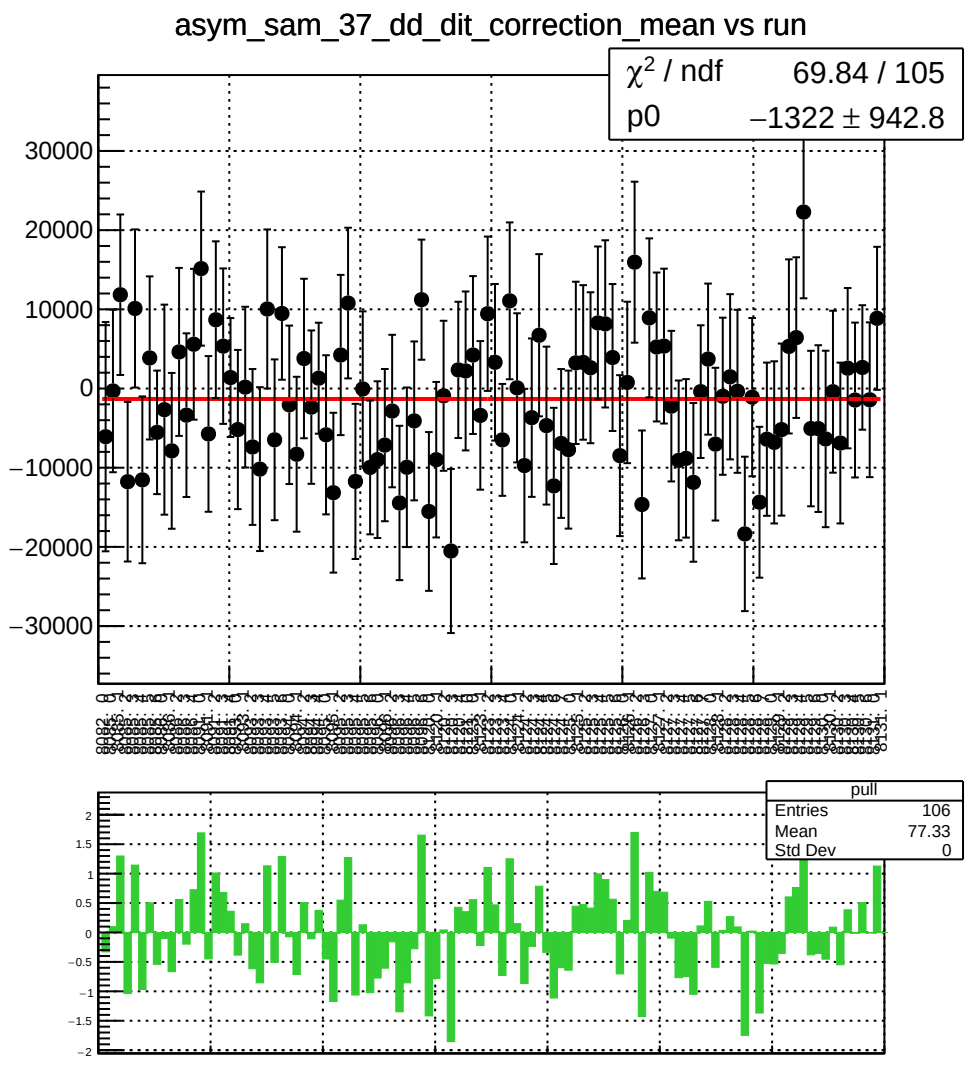

pull1D
Entries 106
Mean −0.008248
Std Dev 0.814
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

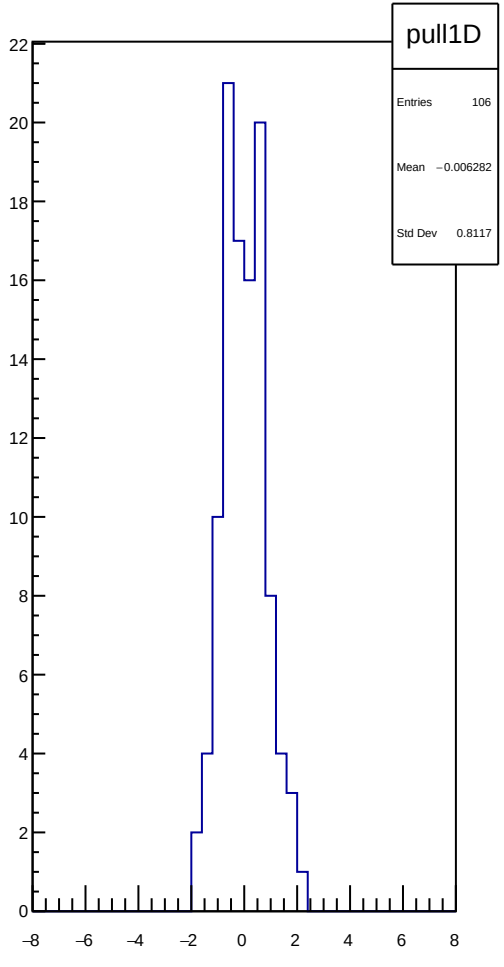

asym_sam_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 4319 / 105
p0 969.6 ± 0.6824
1400
1300
1200
1100
1000
900

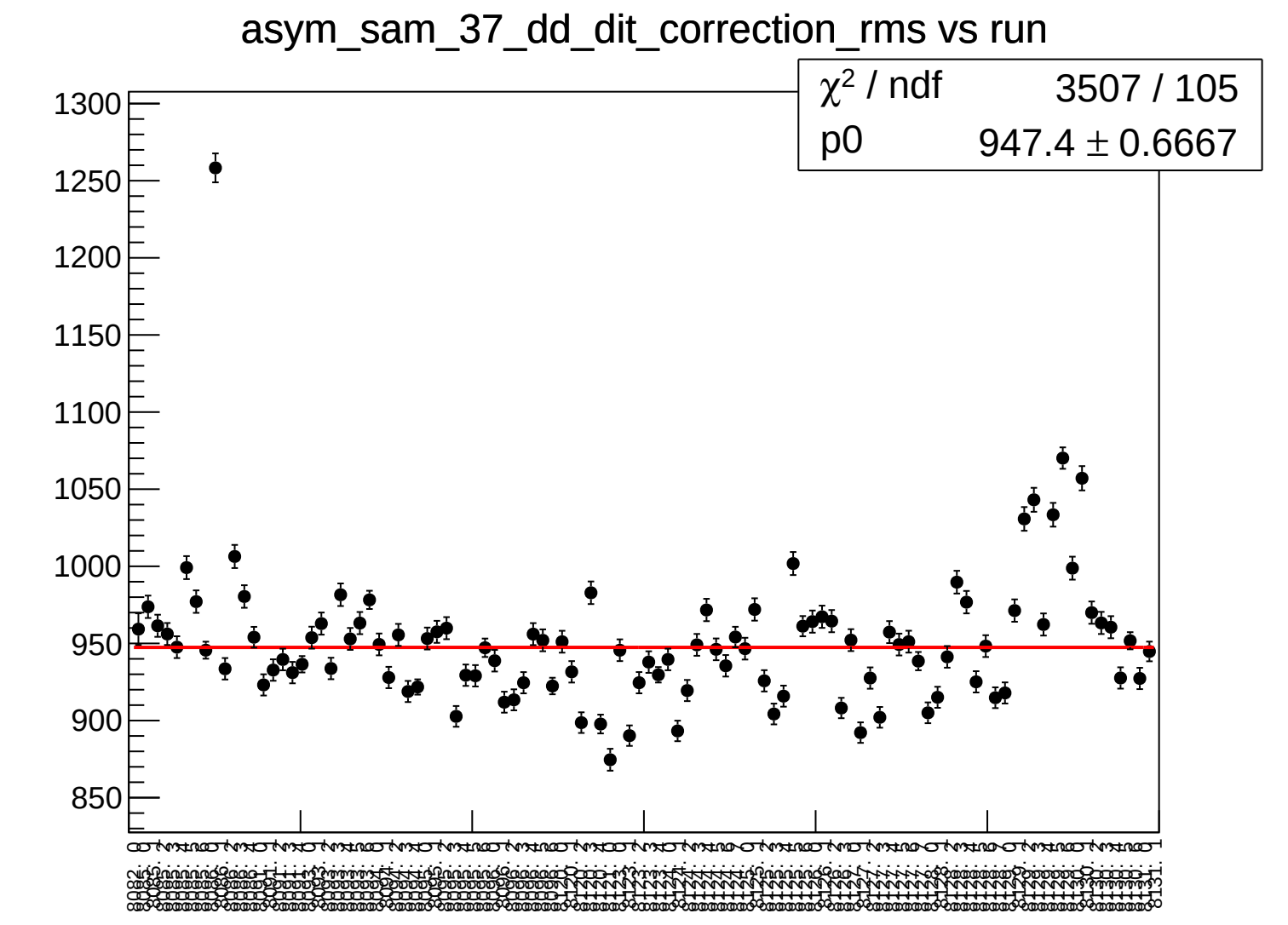

dit_asym_sam_37_dd_mean vs run
χ² / ndf 93.98 / 104
p0 −160.2 ± 118.8
4000
2000
0
−2000
−4000
pull
Entries 105
Mean −139.9
Std Dev 0
2
1
0
−1
−2

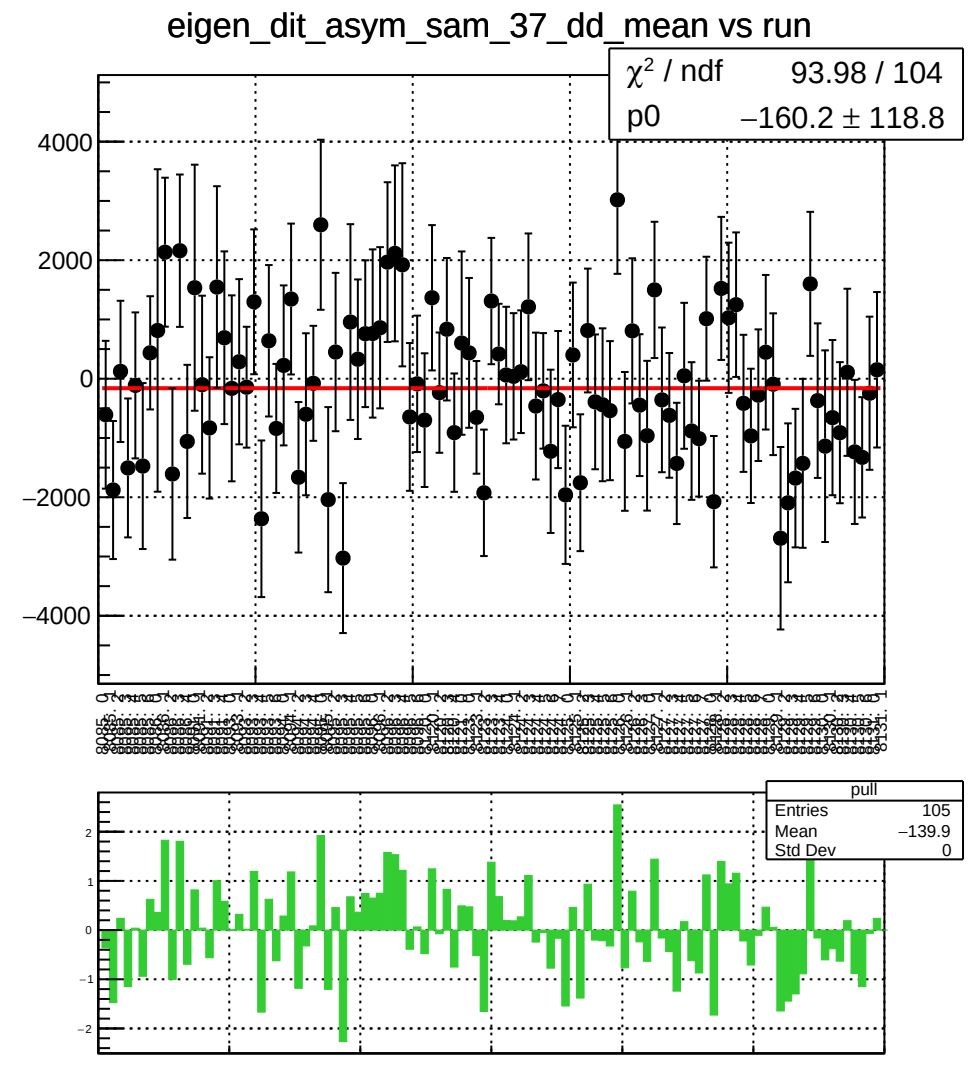

pull1D
Entries 105
Mean 0.02017
Std Dev 0.9459
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

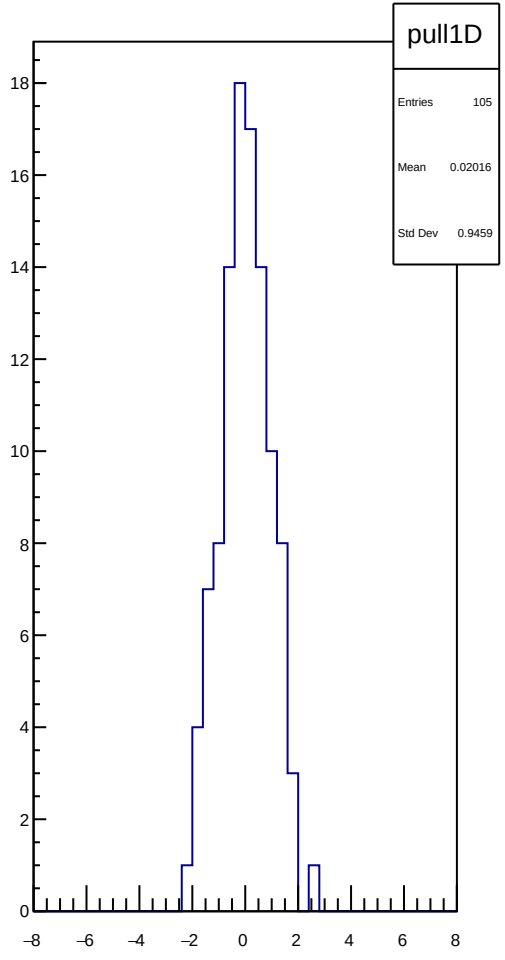

dit_asym_sam_37_dd_rms vs run
χ² / ndf 3.851e+04 / 104
p0 118.1 ± 0.08403
260
240
220
200
180
160
140
120
100
80

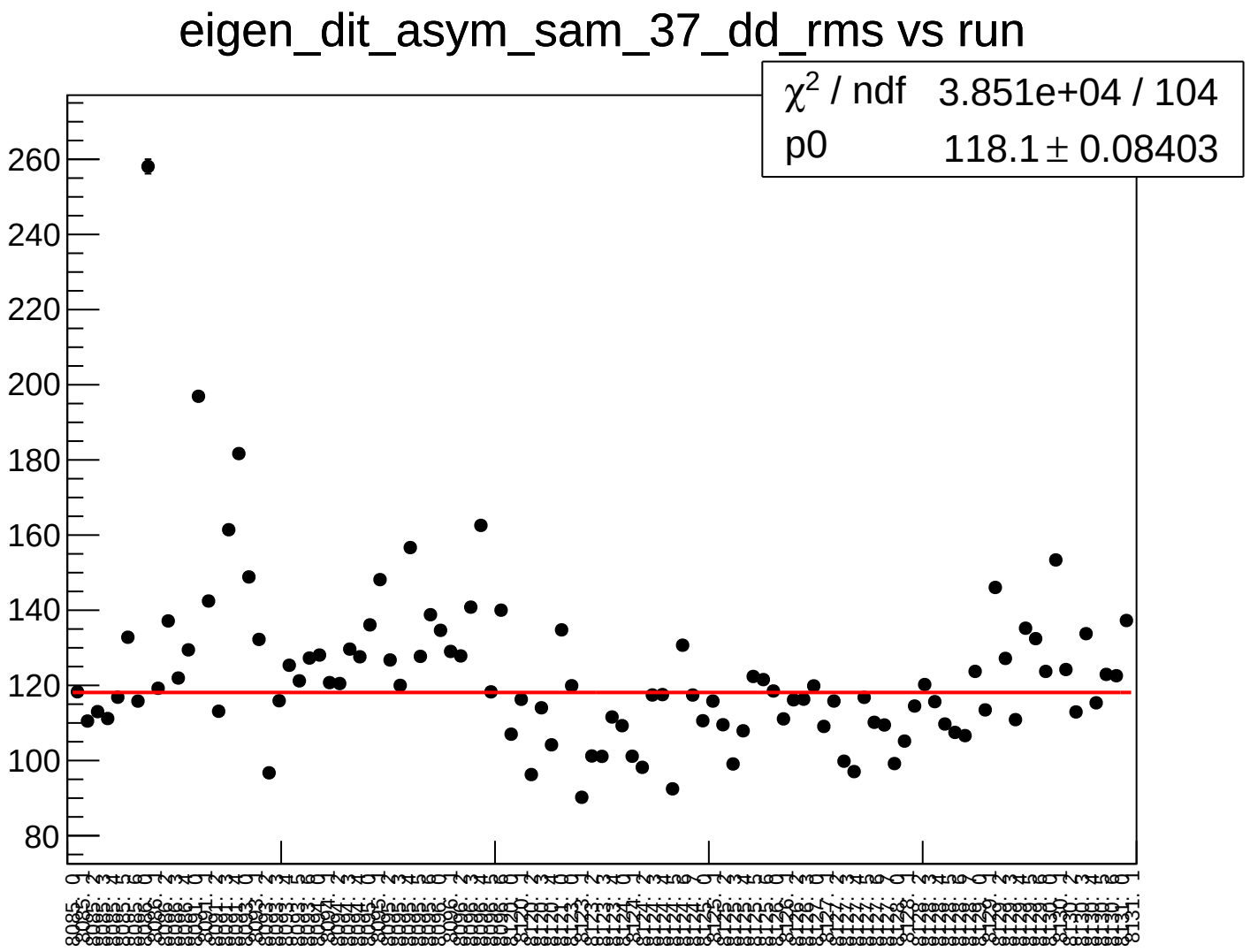

asym_sam_37_dd_dit_correction_mean vs run
χ² / ndf 69.84 / 105
p0 −1322 ± 942.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 106
Mean 77.33
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

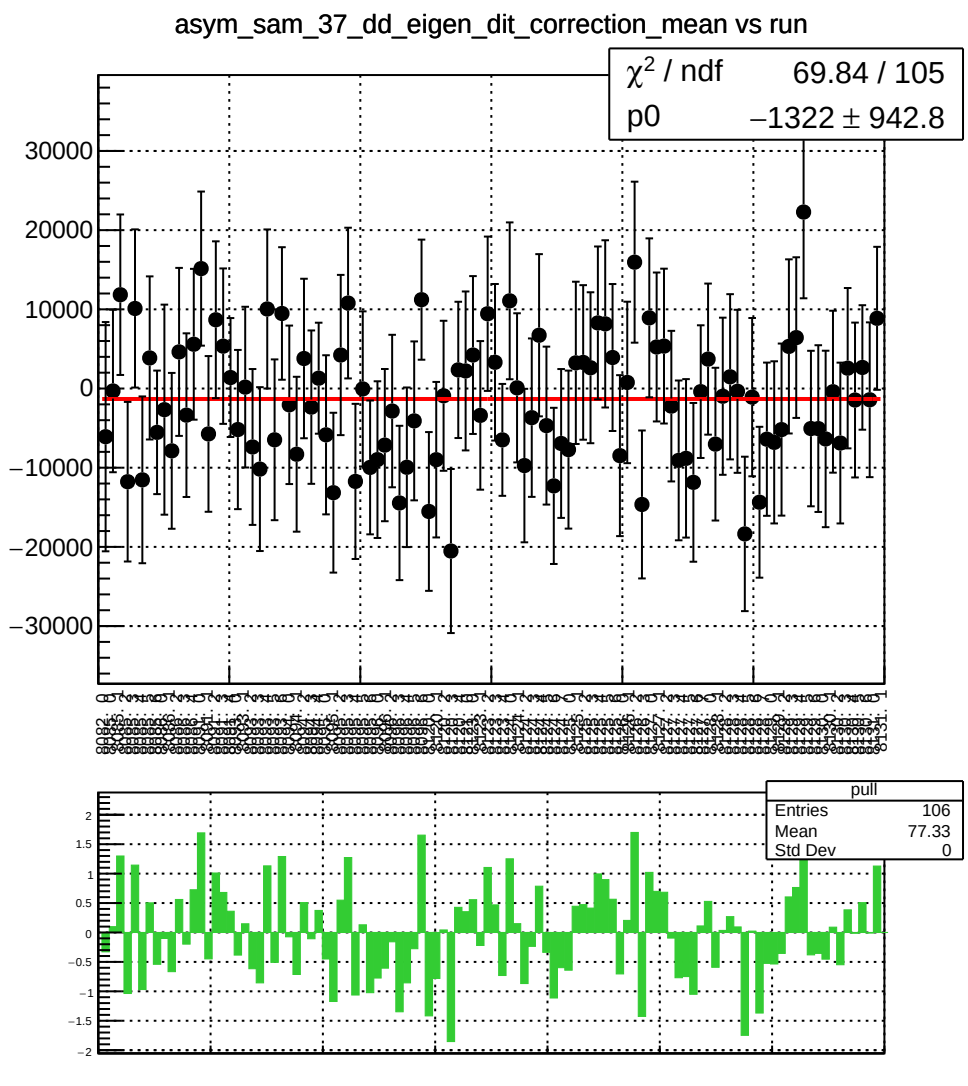

pull1D
Entries 106
Mean −0.006282
Std Dev 0.8117
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

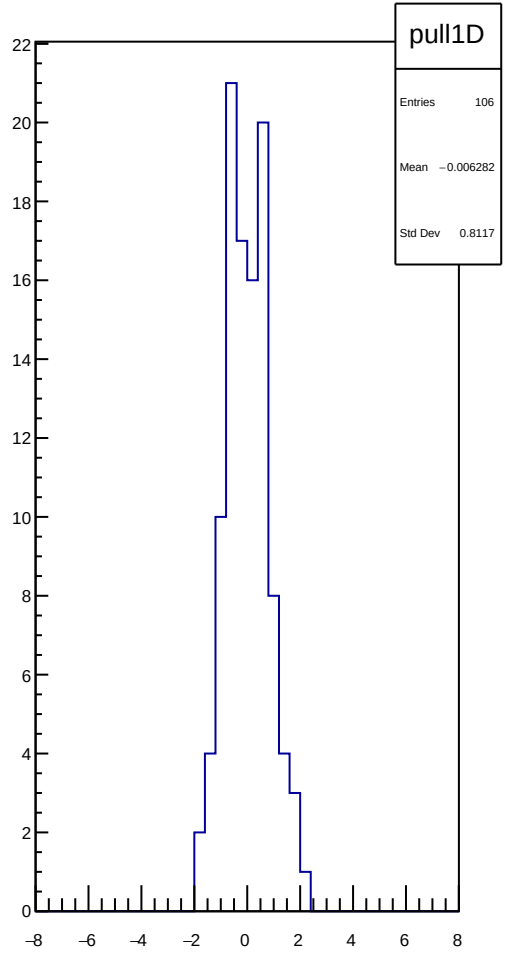

asym_sam_37_dd_dit_correction_rms vs run
χ² / ndf 3507 / 105
p0 947.4 ± 0.6667
1300
1250
1200
1150
1100
1050
1000
950
900
850

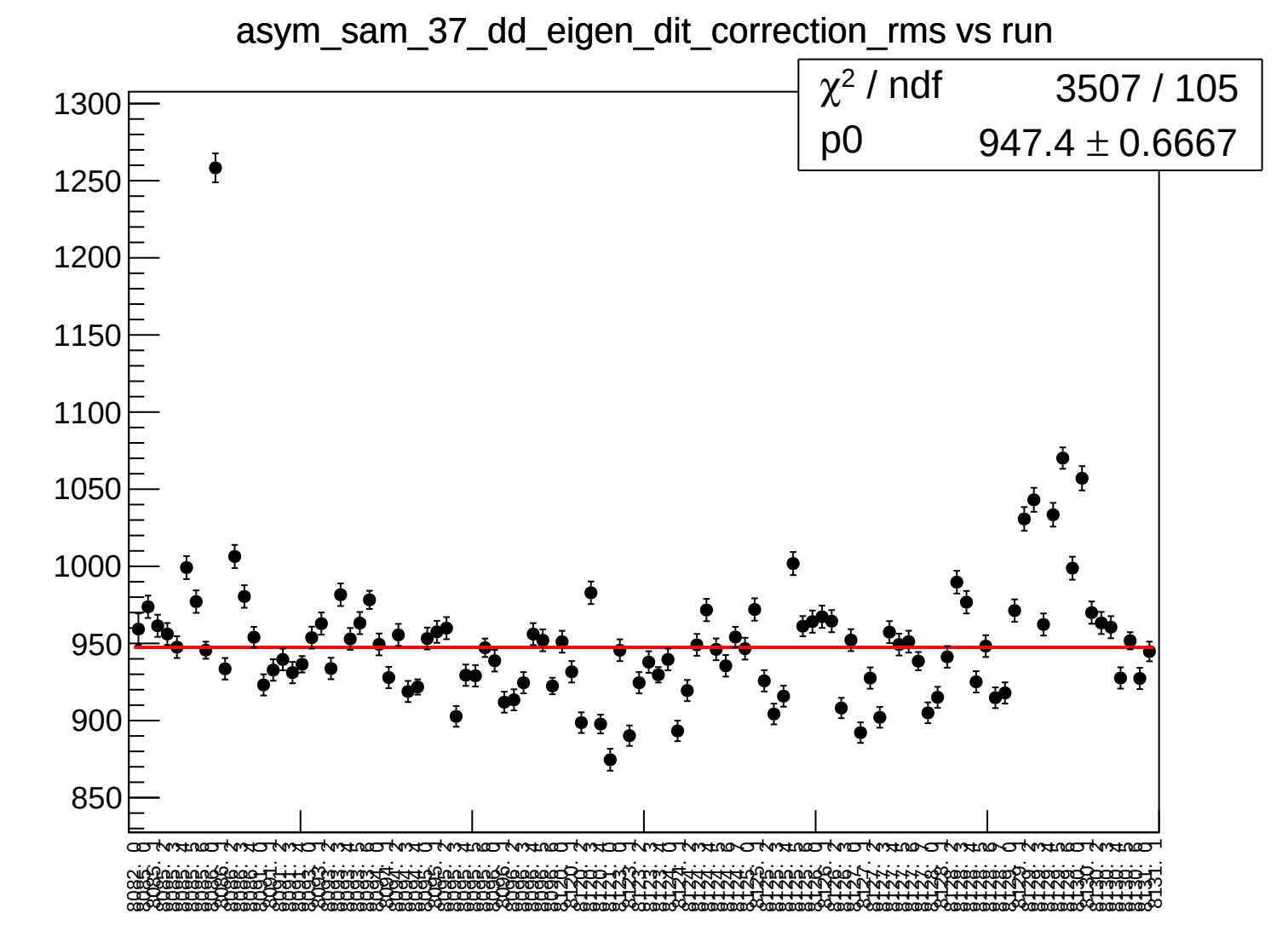

eigen_dit_asym_sam_37_dd_mean vs run
χ² / ndf 93.98 / 104
p0 −160.2 ± 118.8
4000
2000
0
−2000
−4000
pull
Entries 105
Mean −139.9
Std Dev 0
2
1
0
−1
−2

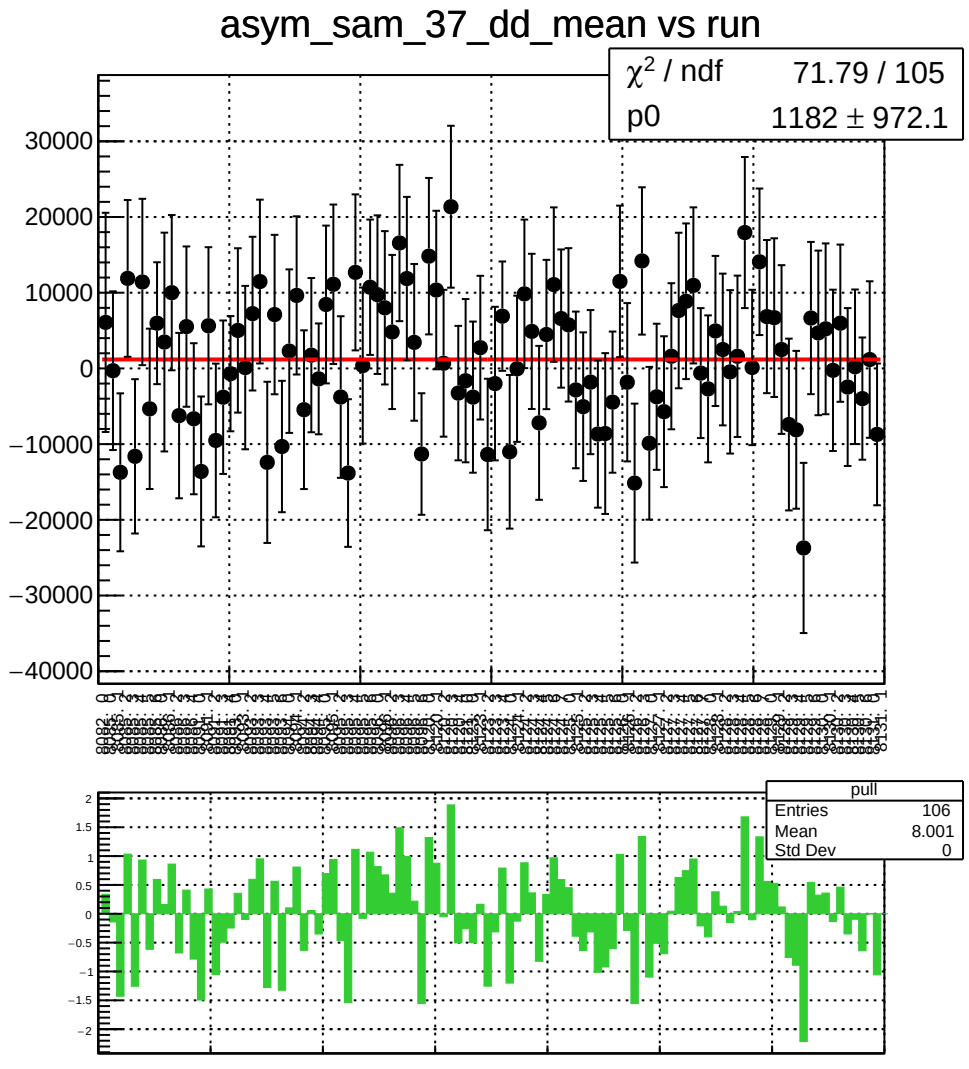

pull1D
Entries 105
Mean 0.02016
Std Dev 0.9459
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

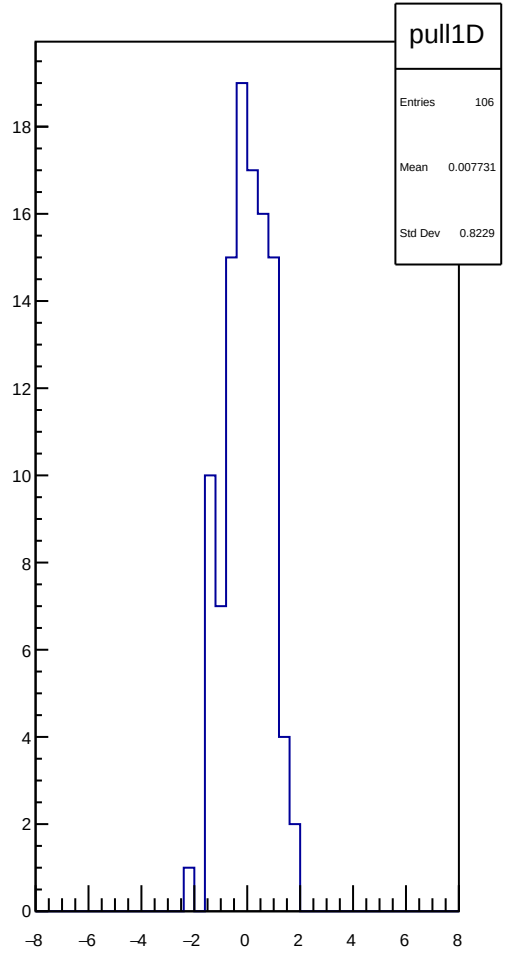

eigen_dit_asym_sam_37_dd_rms vs run
χ² / ndf 3.851e+04 / 104
p0 118.1 ± 0.08403
260
240
220
200
180
160
140
120
100
80

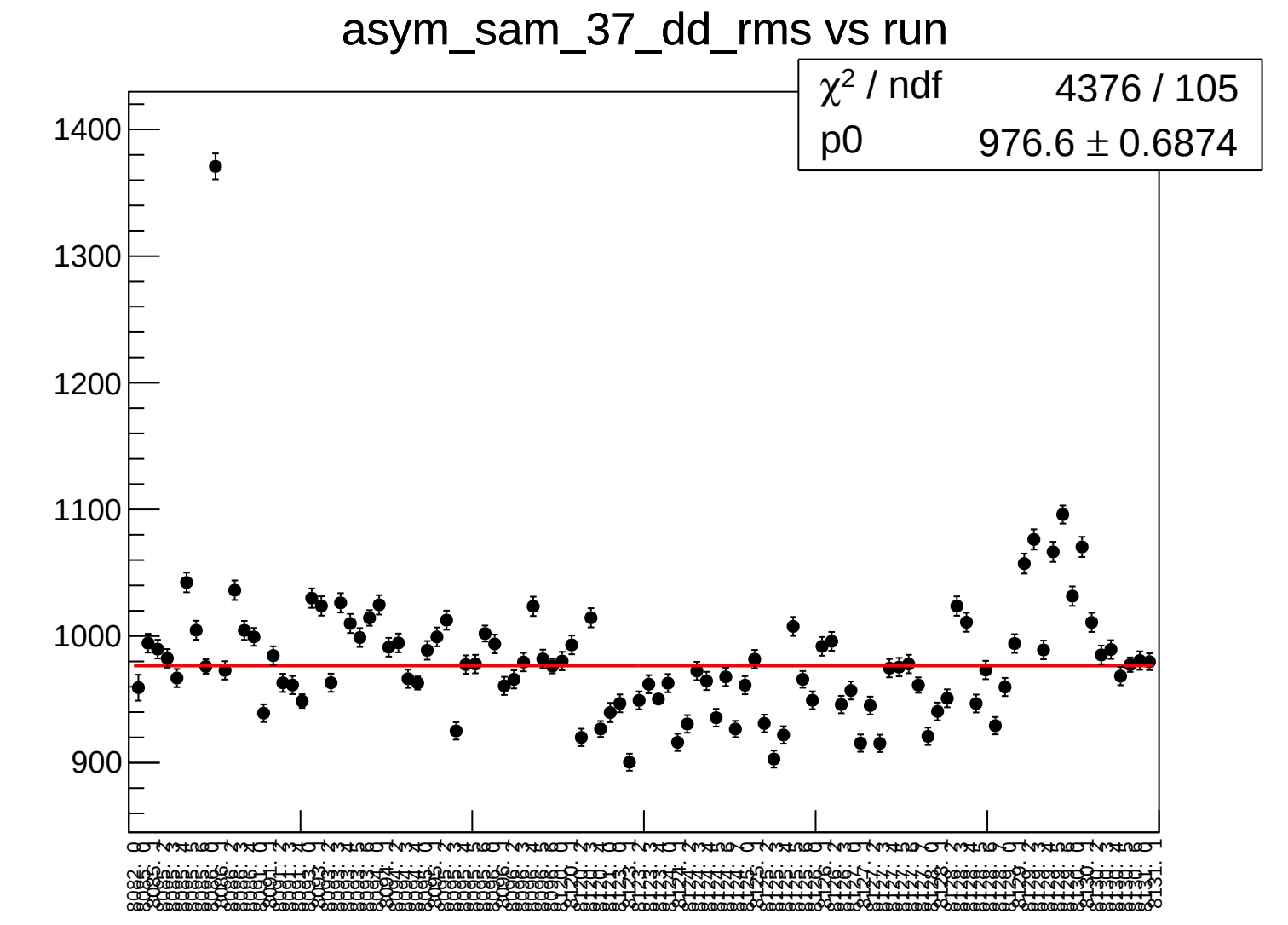

asym_sam_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 69.84 / 105
p0 −1322 ± 942.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 106
Mean 77.33
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

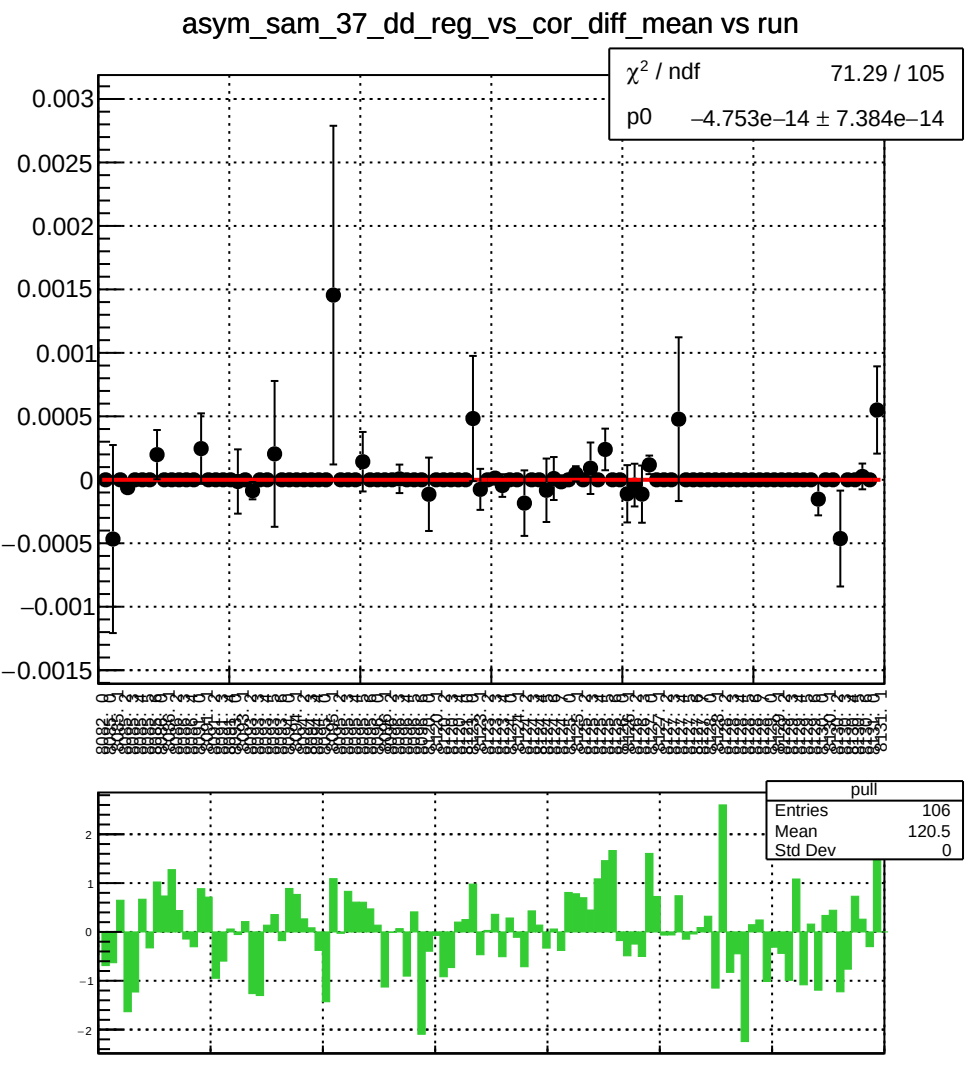

pull1D
Entries 106
Mean −0.006282
Std Dev 0.8117
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

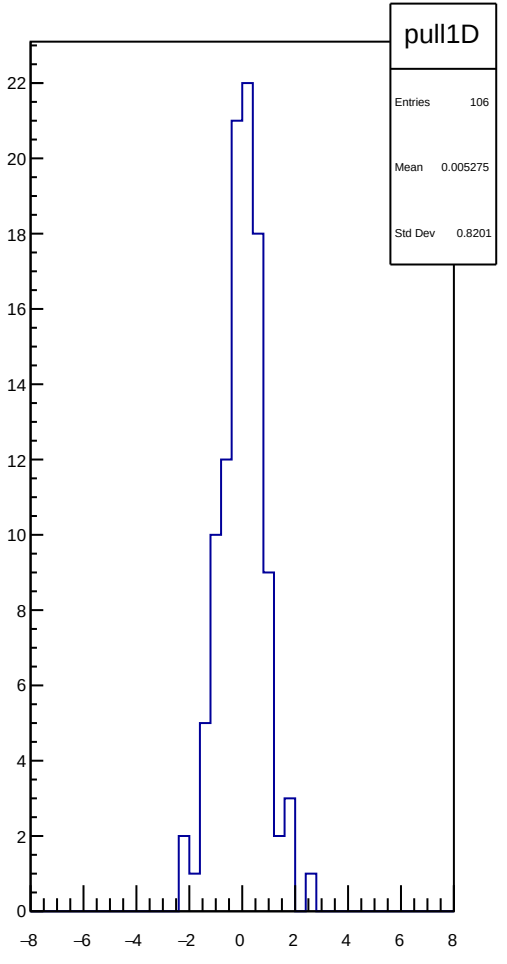

asym_sam_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 3507 / 105
p0 947.4 ± 0.6667
1300
1250
1200
1150
1100
1050
1000
950
900
850

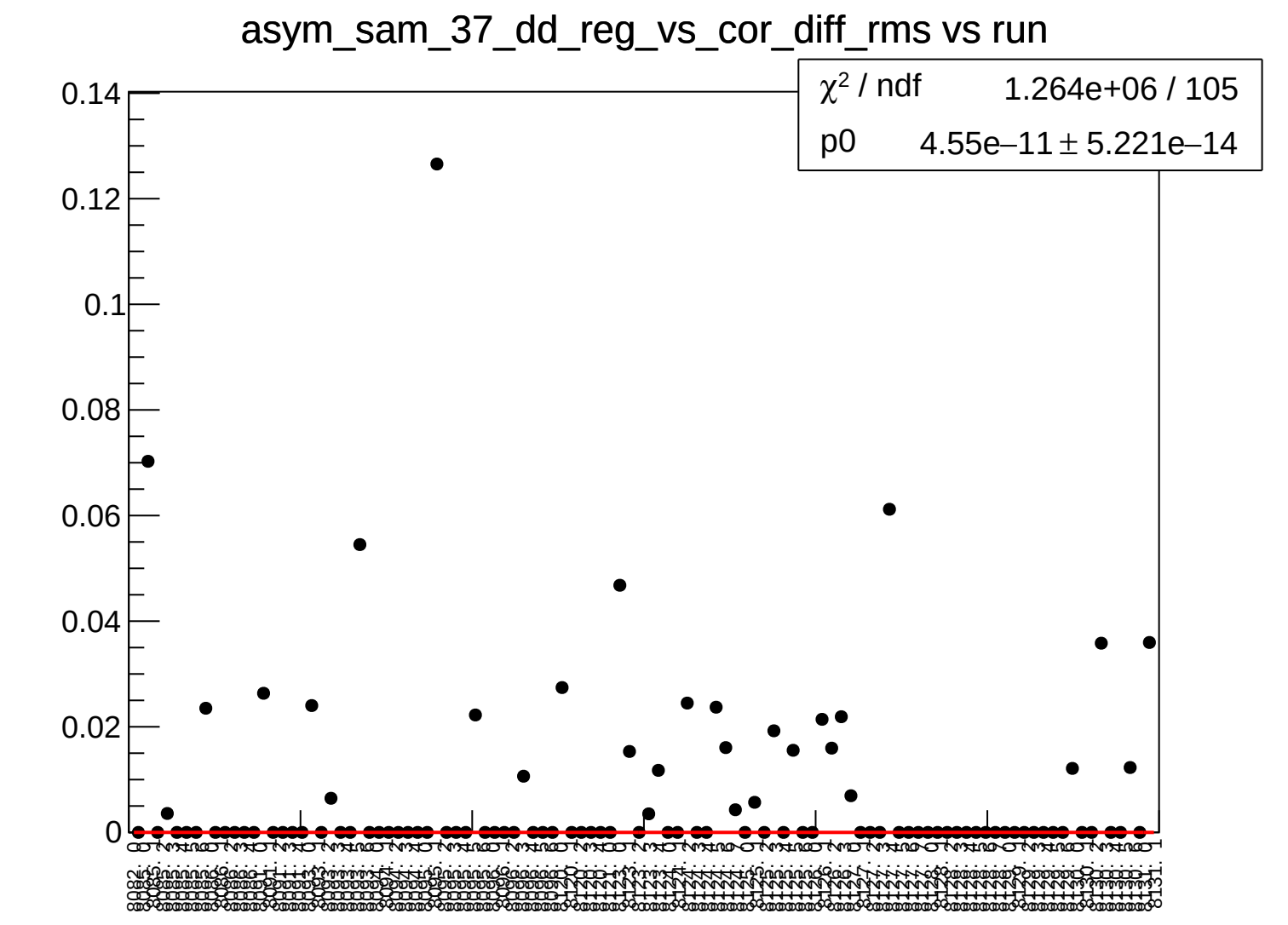

asym_sam_37_dd_mean vs run
χ² / ndf 71.79 / 105
p0 1182 ± 972.1
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 106
Mean 8.001
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

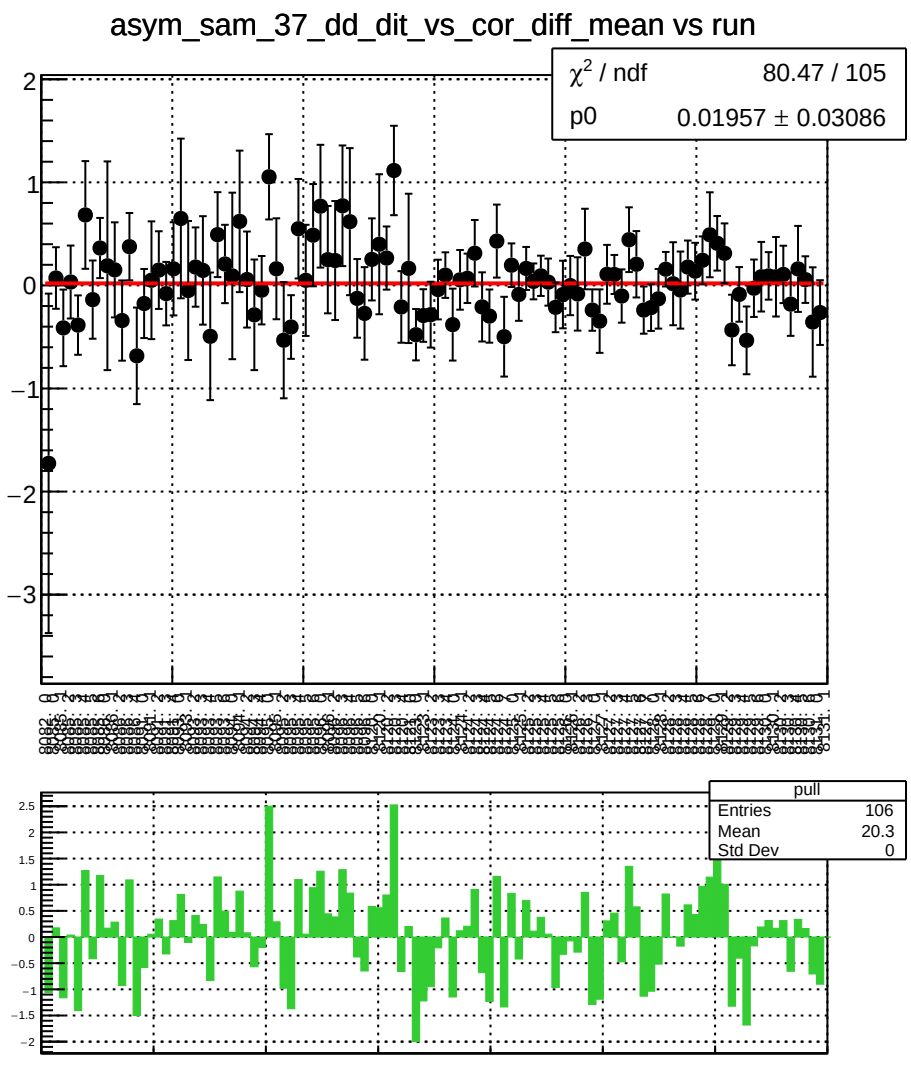

pull1D
Entries 106
Mean 0.007731
Std Dev 0.8229
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

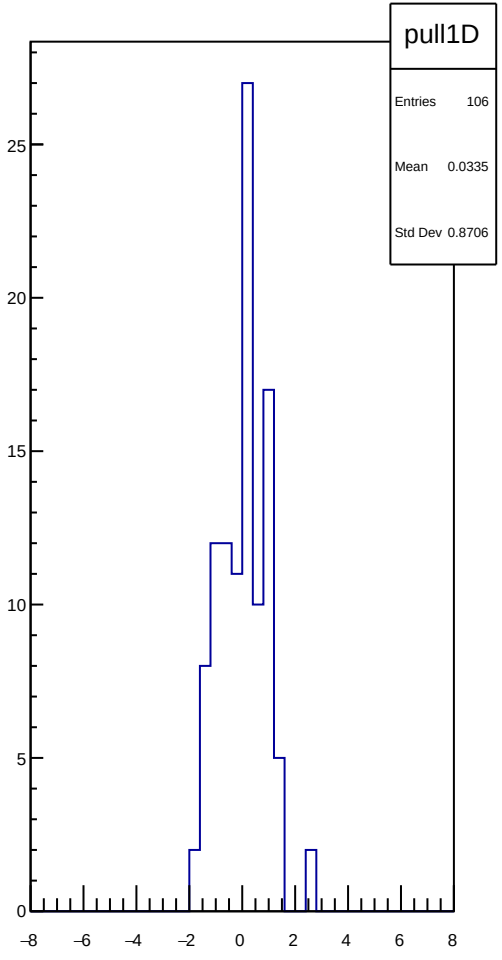

asym_sam_37_dd_rms vs run
χ² / ndf 4376 / 105
p0 976.6 ± 0.6874
1400
1300
1200
1100
1000
900

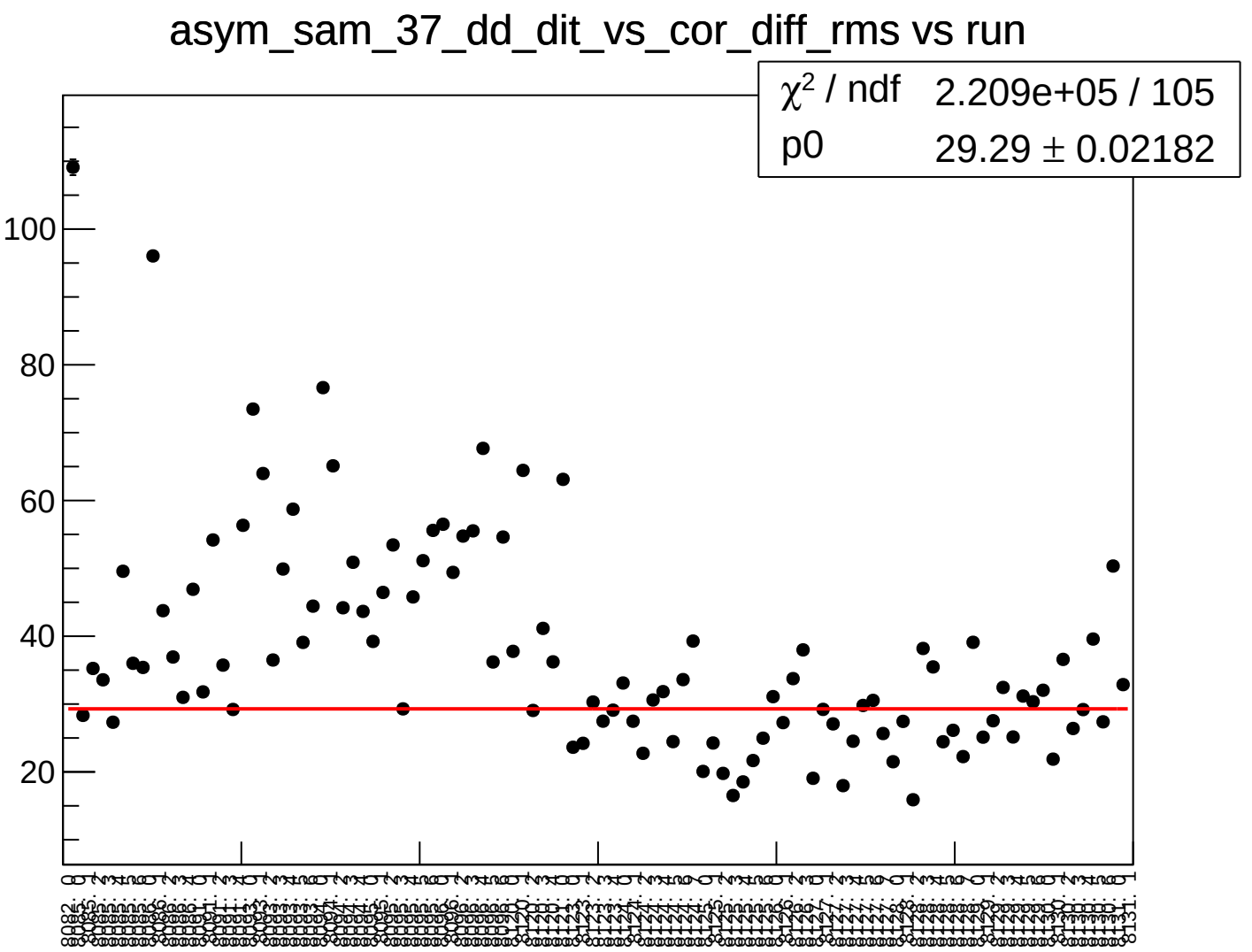

asym_sam_37_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 71.29 / 105
p0 −4.753e−14 ± 7.384e−14
0.003
0.0025
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 106
Mean 120.5
Std Dev 0
2
1
0
−1
−2

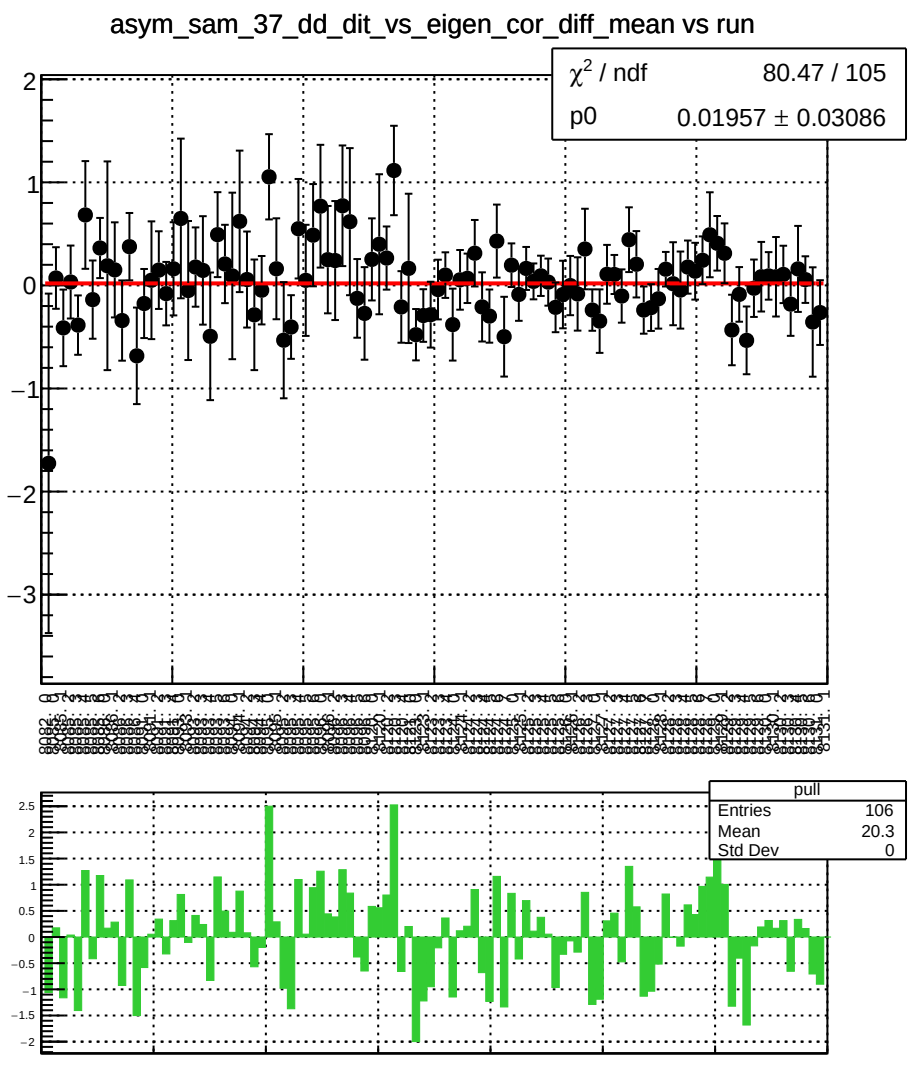

pull1D
Entries 106
Mean 0.005275
Std Dev 0.8201
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

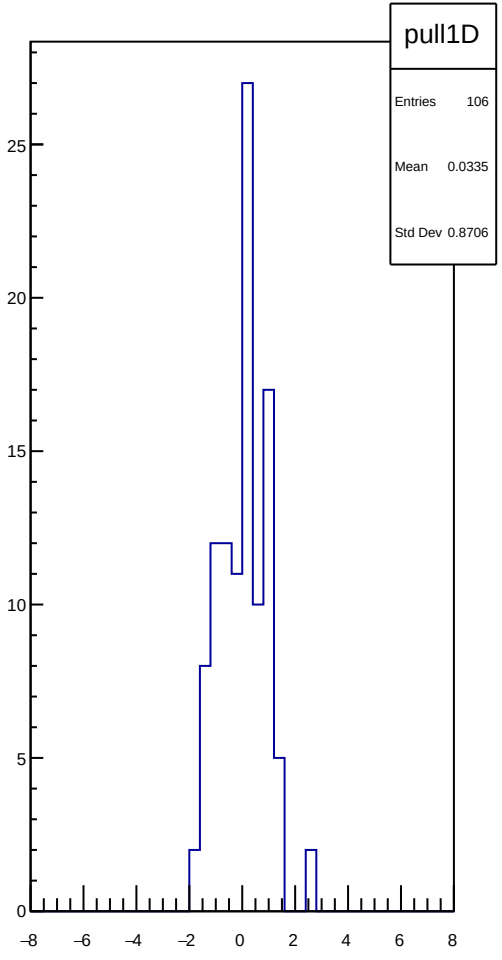

asym_sam_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.264e+06 / 105
p0 4.55e−11 ± 5.221e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

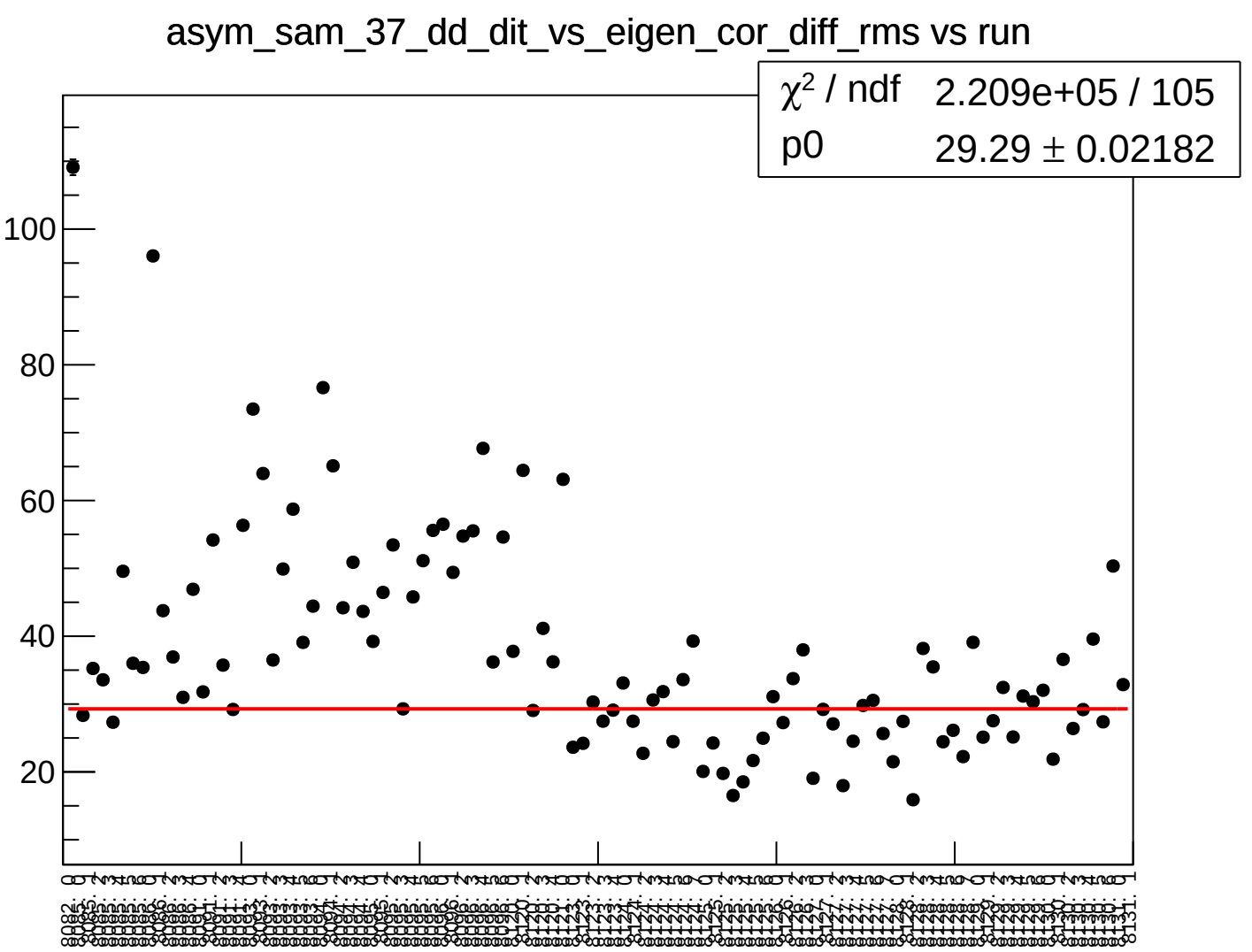

asym_sam_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 80.47 / 105
p0 0.01957 ± 0.03086
pull
Entries 106
Mean 20.3
Std Dev 0

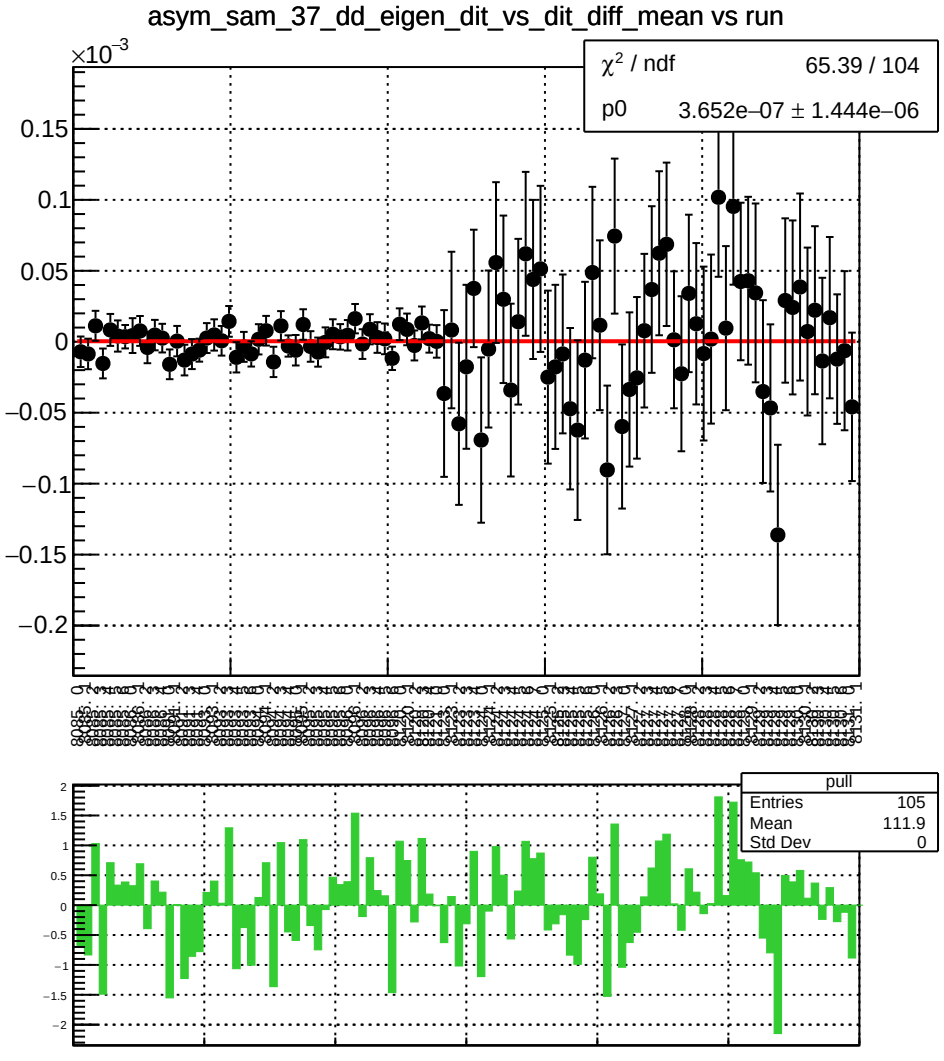

pull1D
Entries 106
Mean 0.0335
Std Dev 0.8706

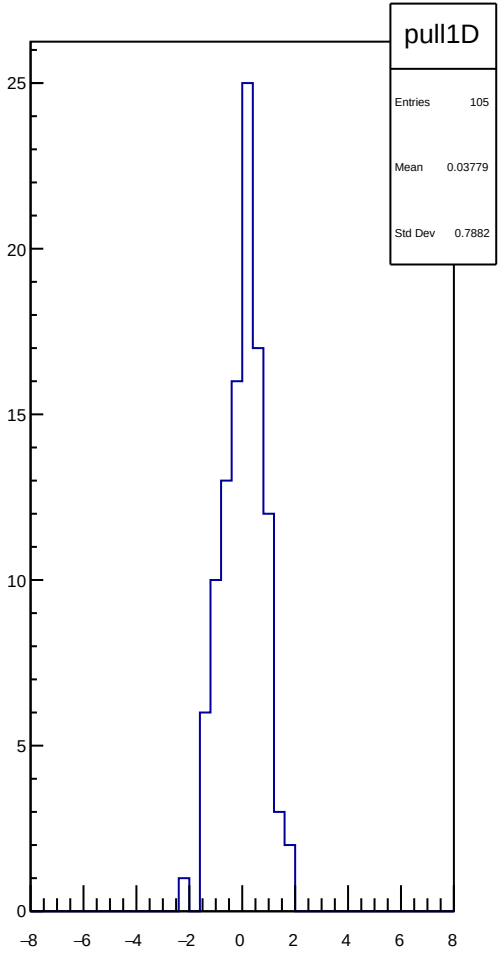

asym_sam_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.209e+05 / 105
p0 29.29 ± 0.02182
100
80
60
40
20

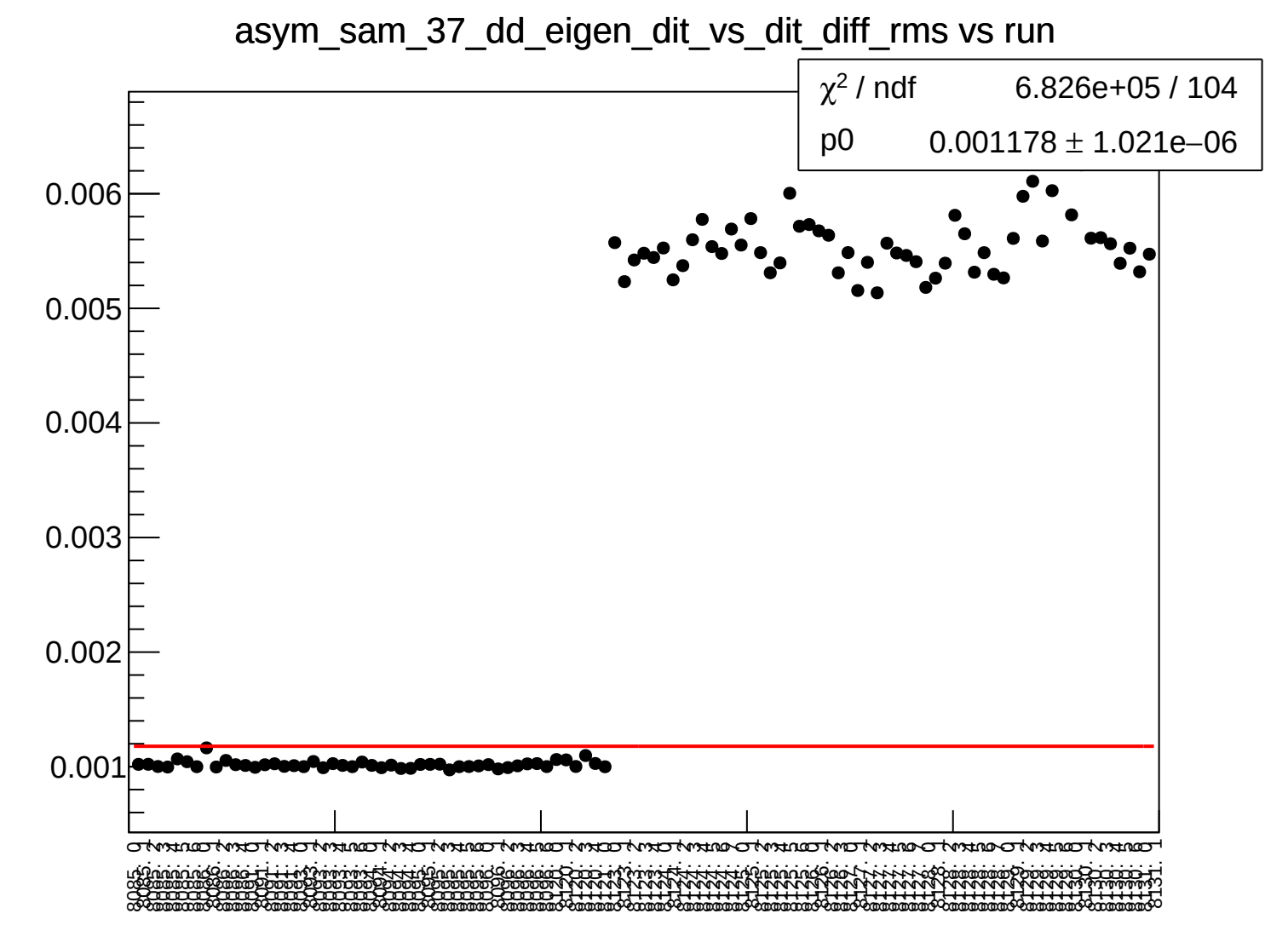

asym_sam_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.47 / 105
p0 0.01957 ± 0.03086
pull
Entries 106
Mean 20.3
Std Dev 0

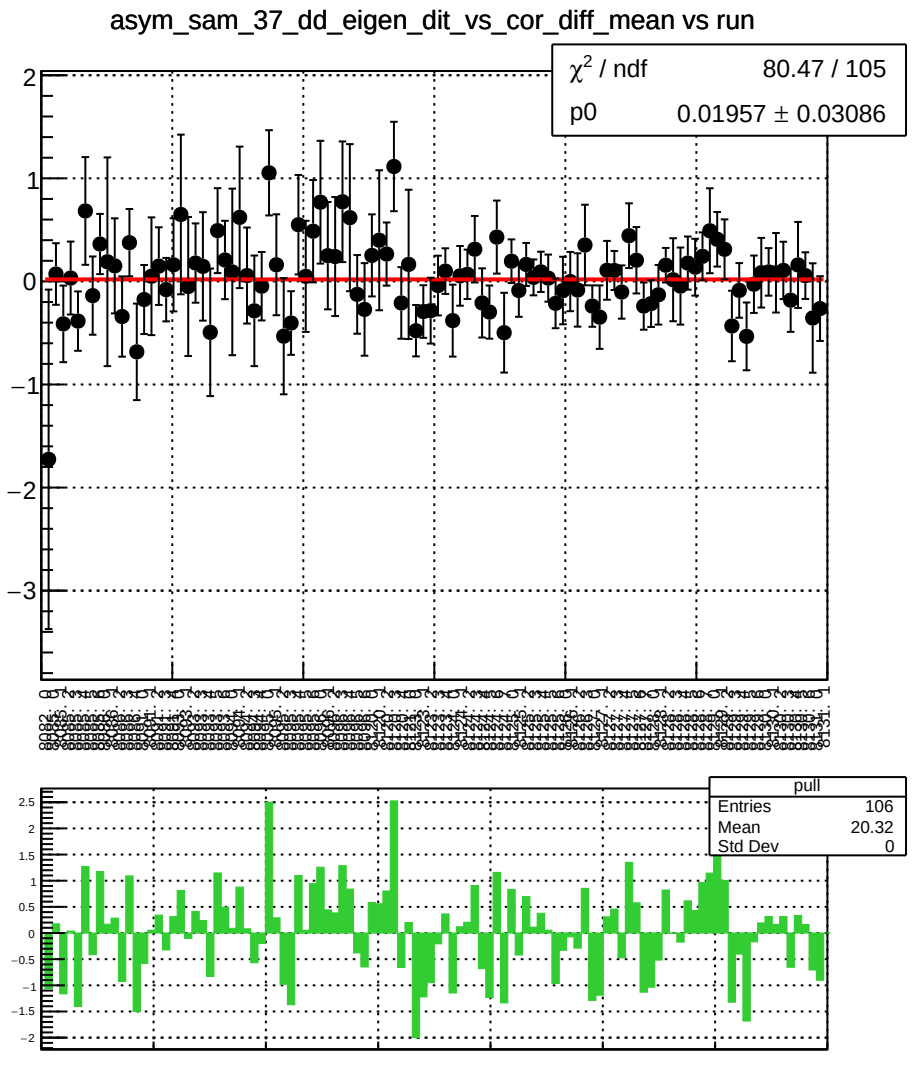

pull1D
Entries 106
Mean 0.0335
Std Dev 0.8706

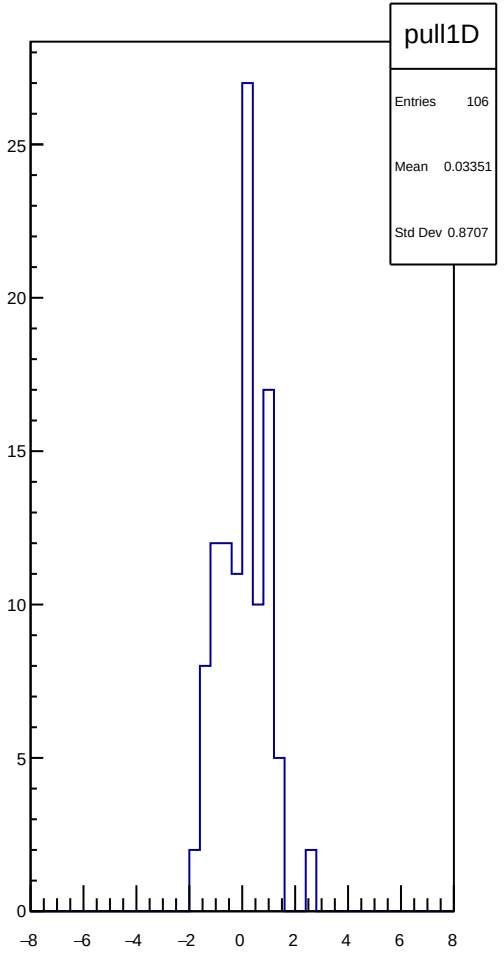

asym_sam_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.209e+05 / 105
p0 29.29 ± 0.02182
100
80
60
40
20

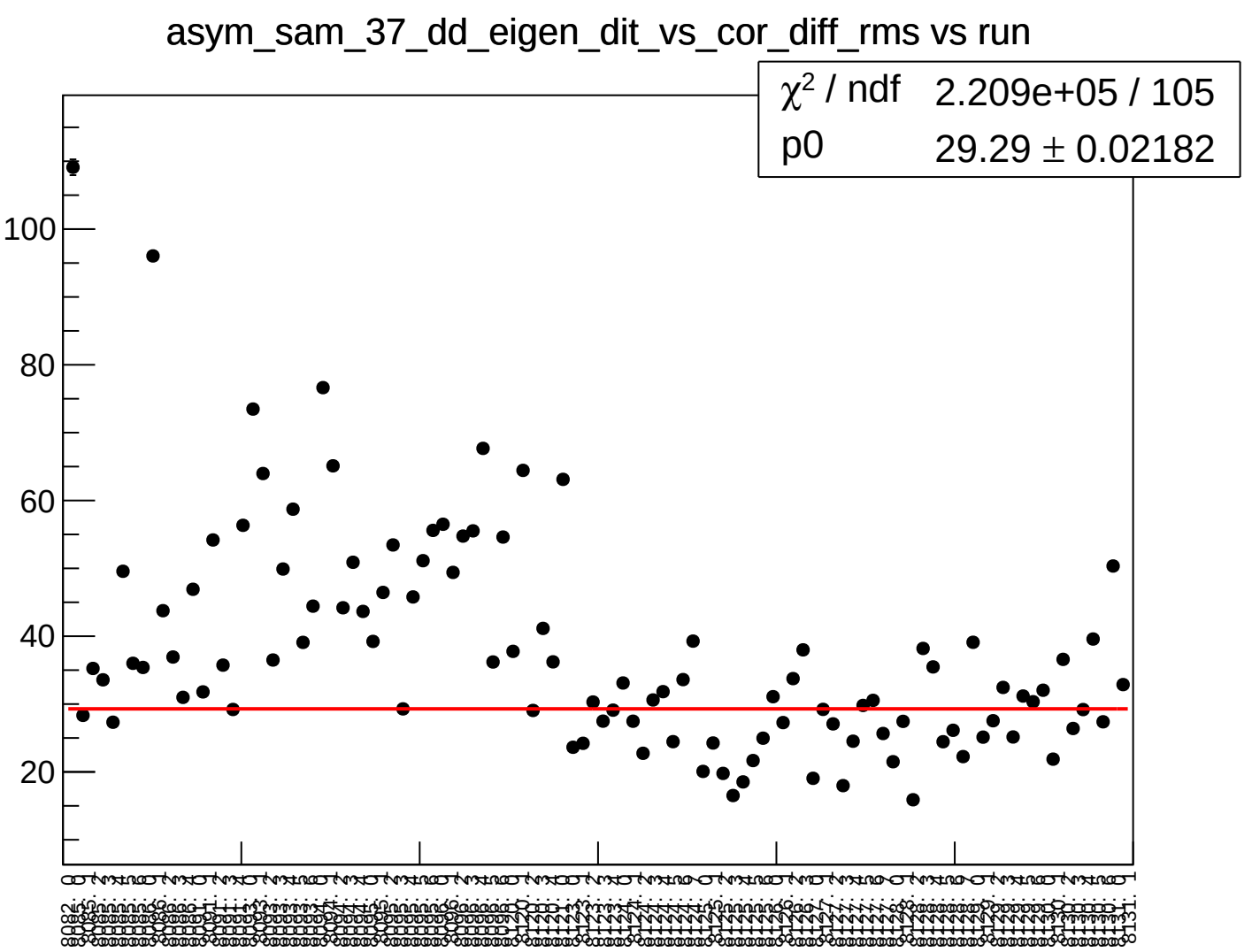

asym_sam_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 65.39 / 104
p0 3.652e−07 ± 1.444e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
pull
Entries 105
Mean 111.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

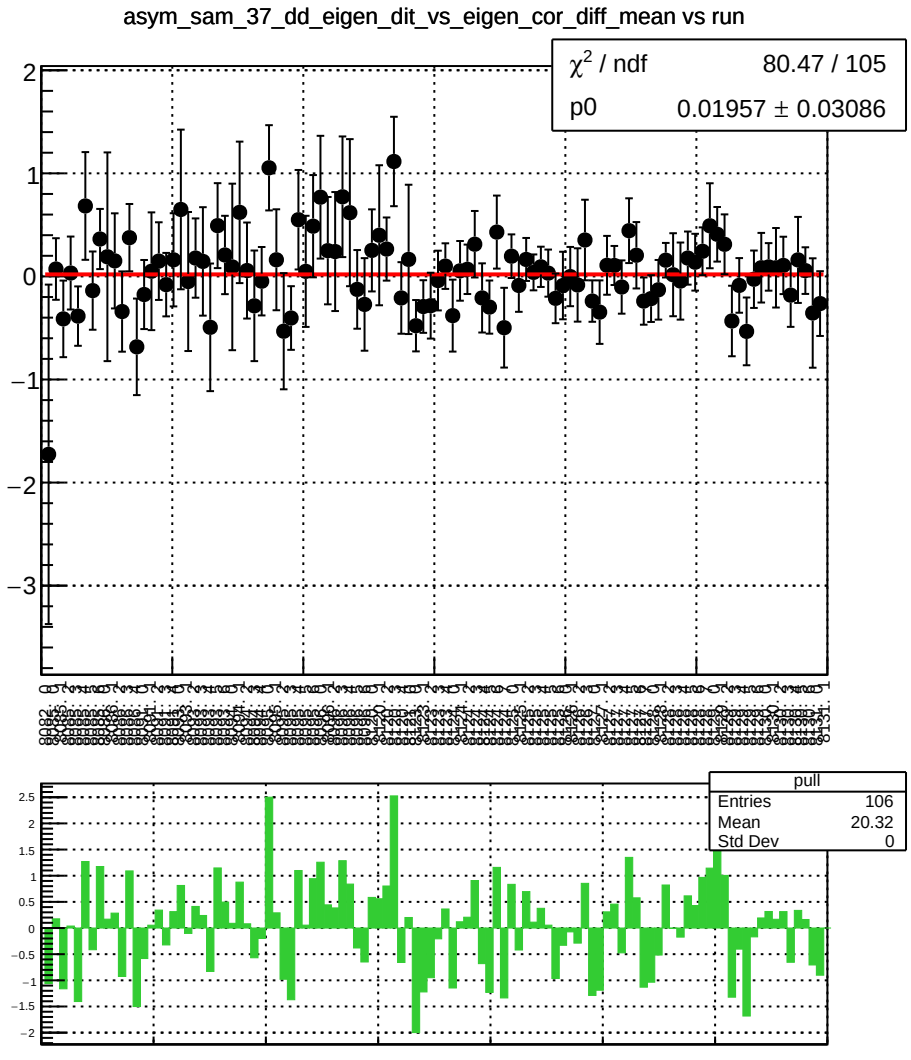

pull1D
Entries 105
Mean 0.03779
Std Dev 0.7882
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

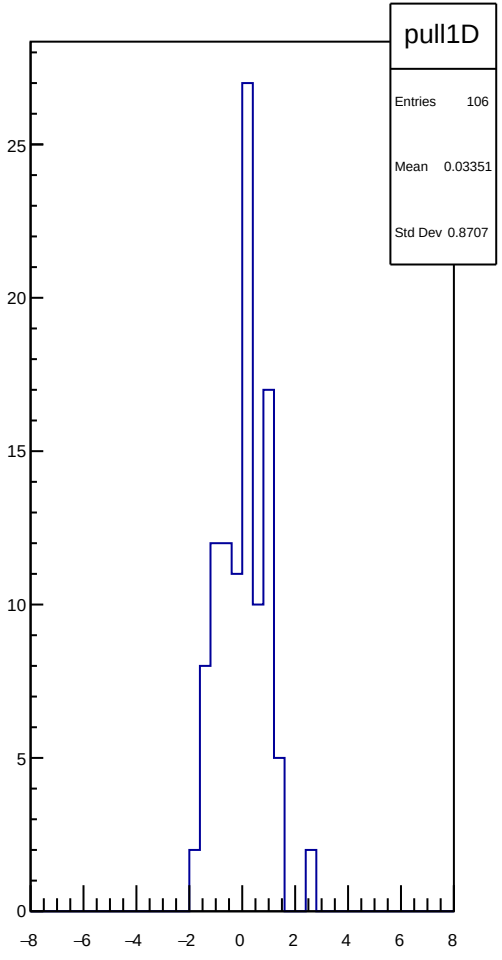

asym_sam_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ2 / ndf 6.826e+05 / 104
p0 0.001178 ± 1.021e−06
0.006
0.005
0.004
0.003
0.002
0.001

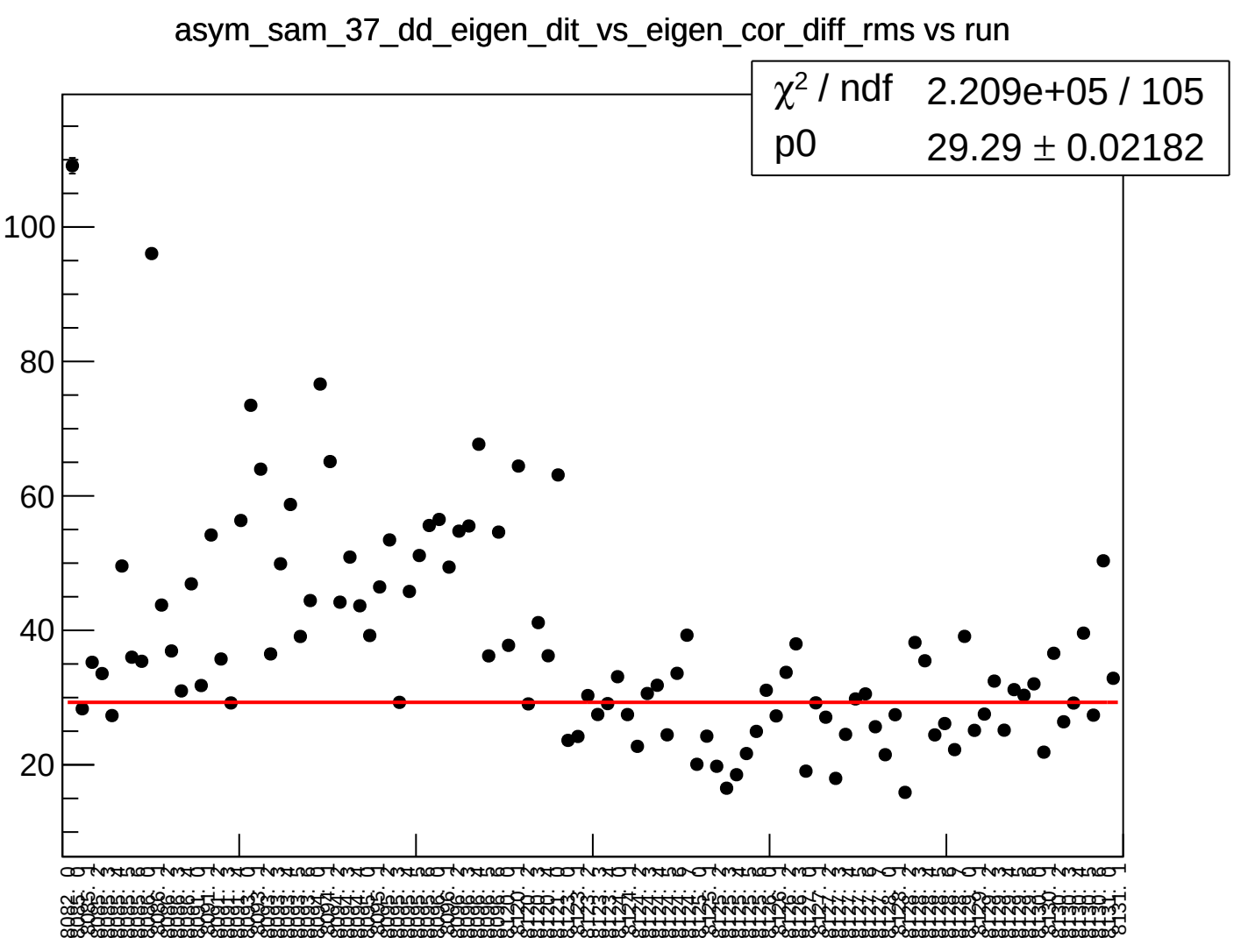

asym_sam_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.47 / 105
p0 0.01957 ± 0.03086
pull
Entries 106
Mean 20.32
Std Dev 0

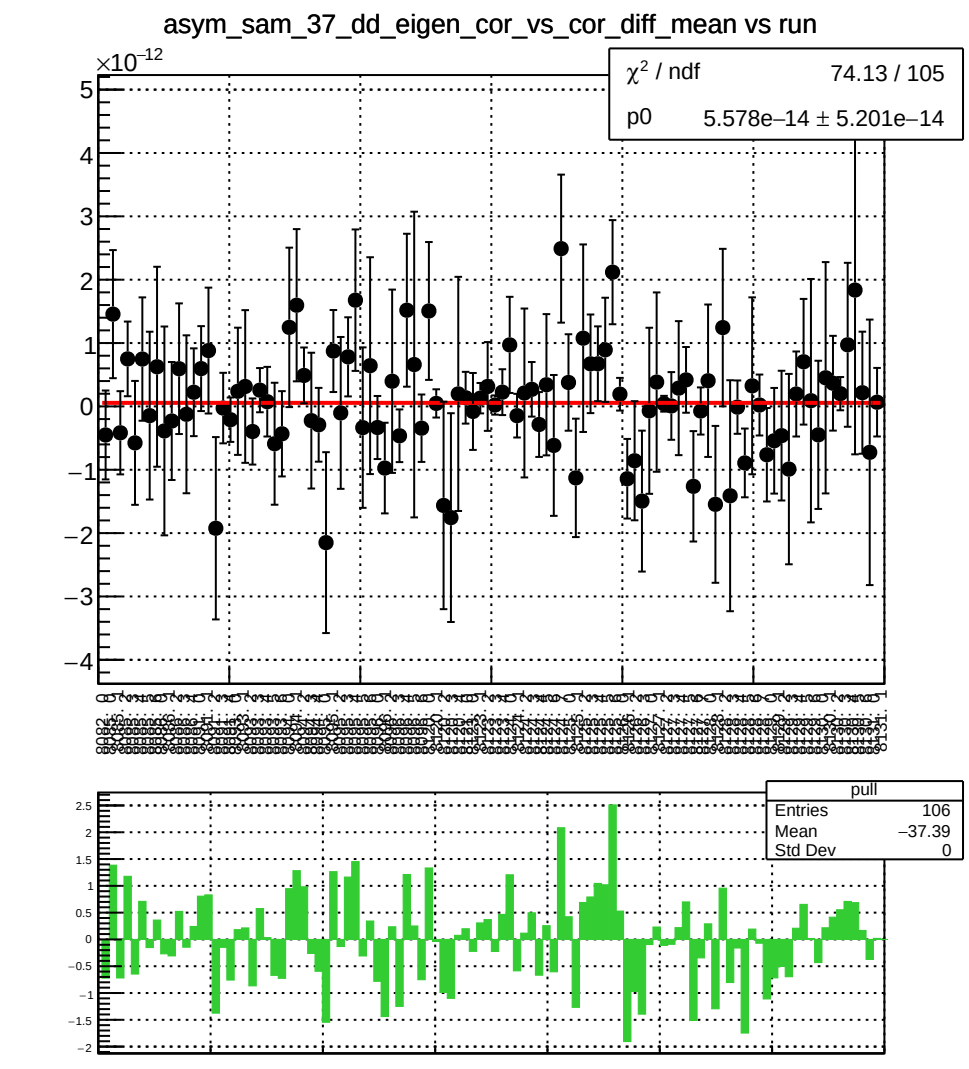

pull1D
Entries 106
Mean 0.03351
Std Dev 0.8707

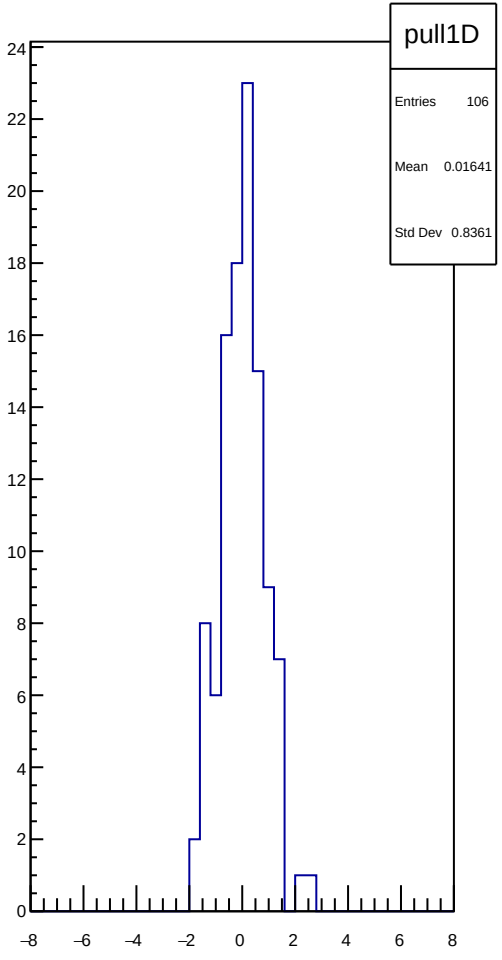

asym_sam_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.209e+05 / 105
p0 29.29 ± 0.02182
100
80
60
40
20

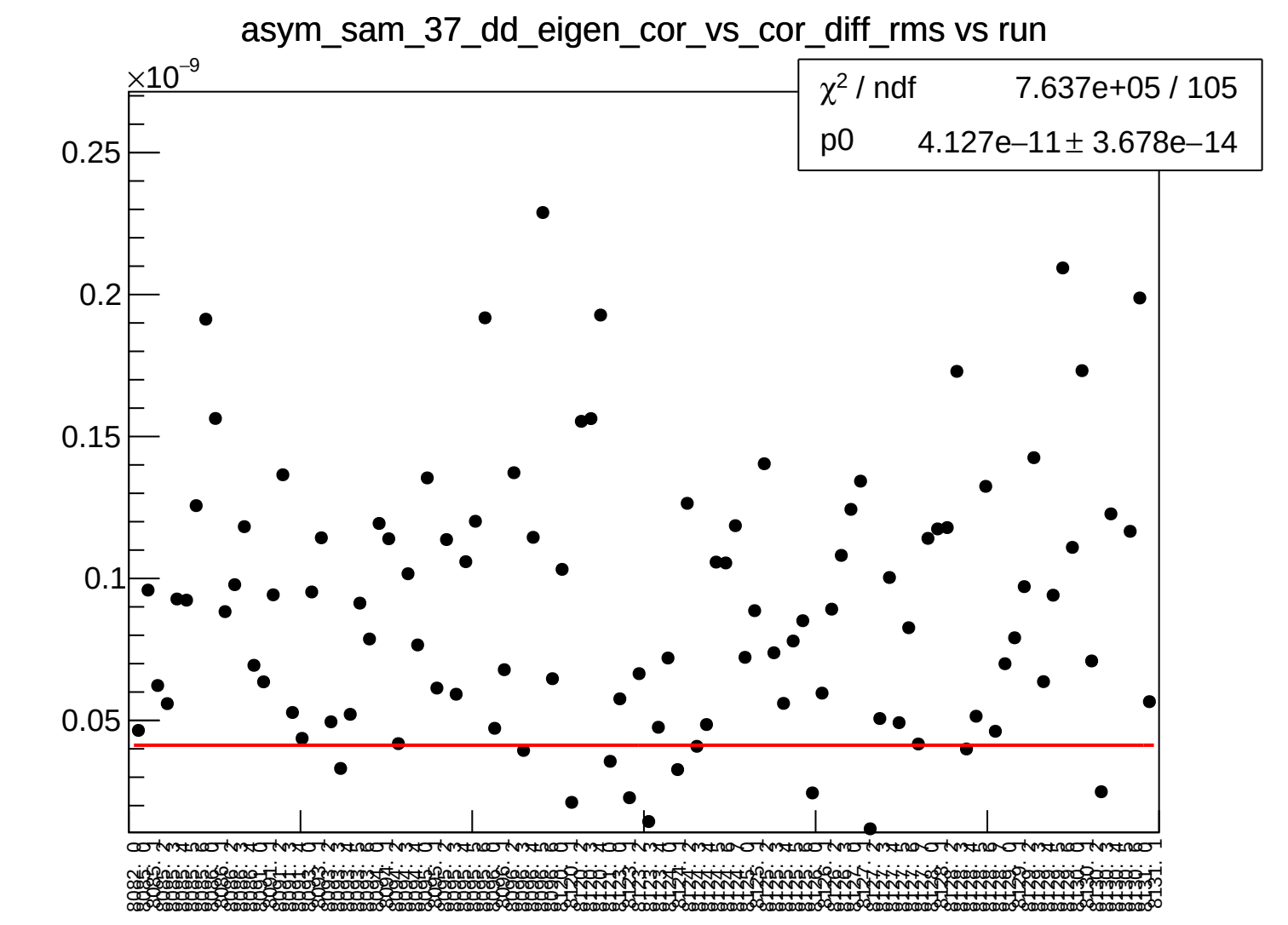

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.47 / 105
p0 0.01957 ± 0.03086
pull
Entries 106
Mean 20.32
Std Dev 0

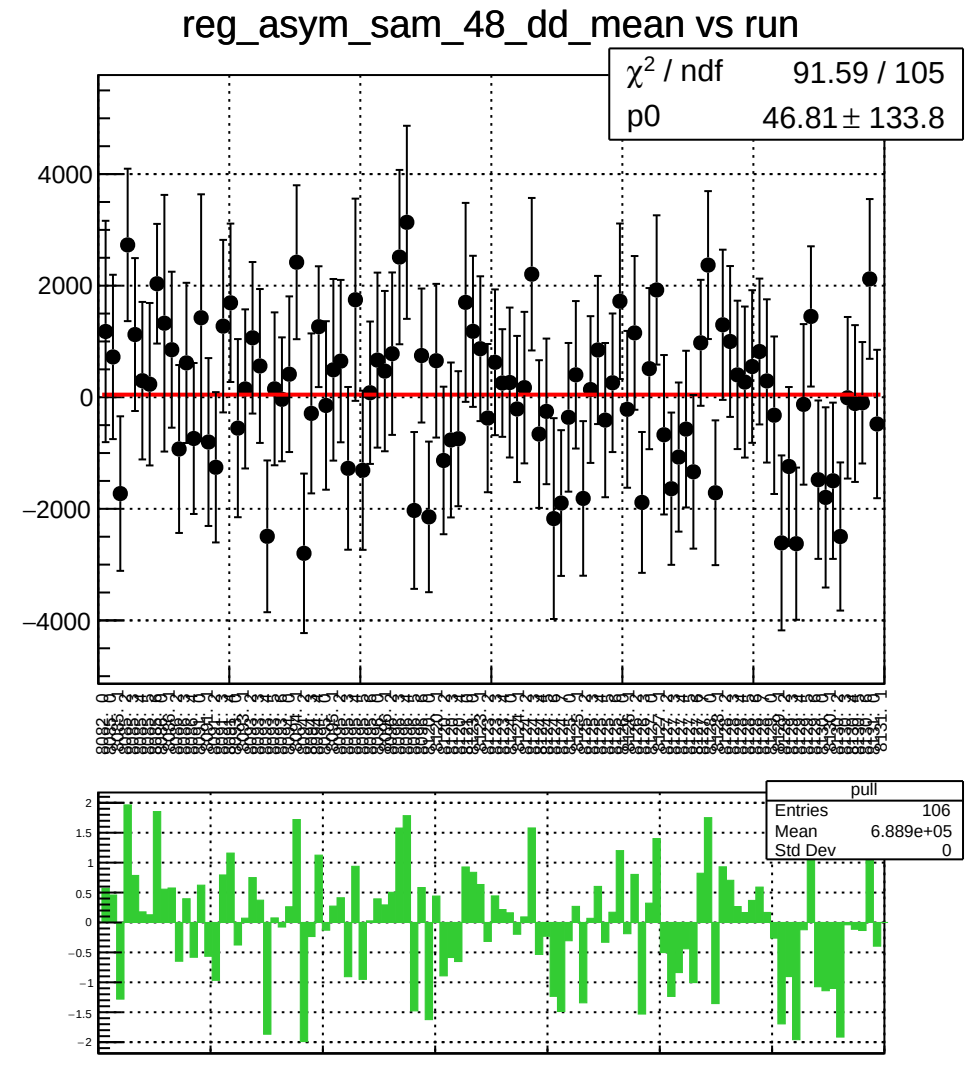

pull1D
Entries 106
Mean 0.03351
Std Dev 0.8707

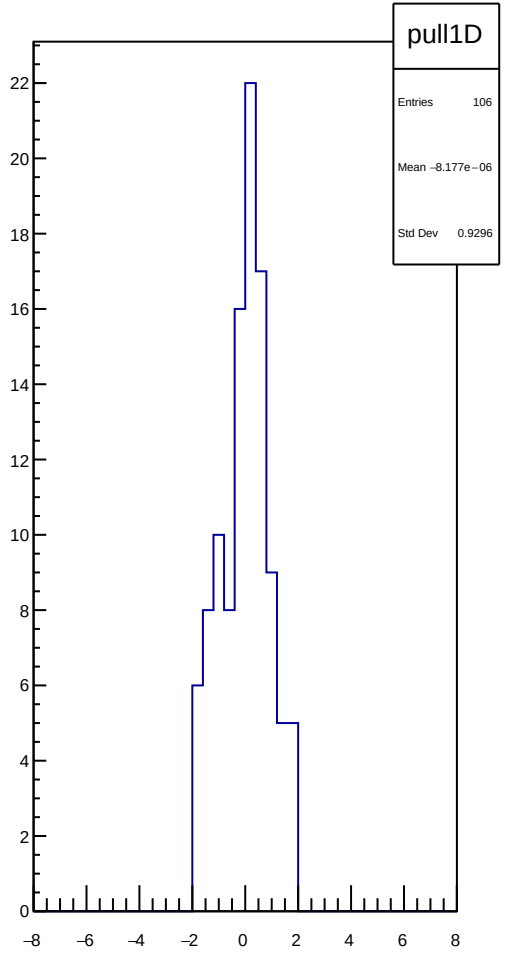

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.209e+05 / 105
p0 29.29 ± 0.02182
100
80
60
40
20

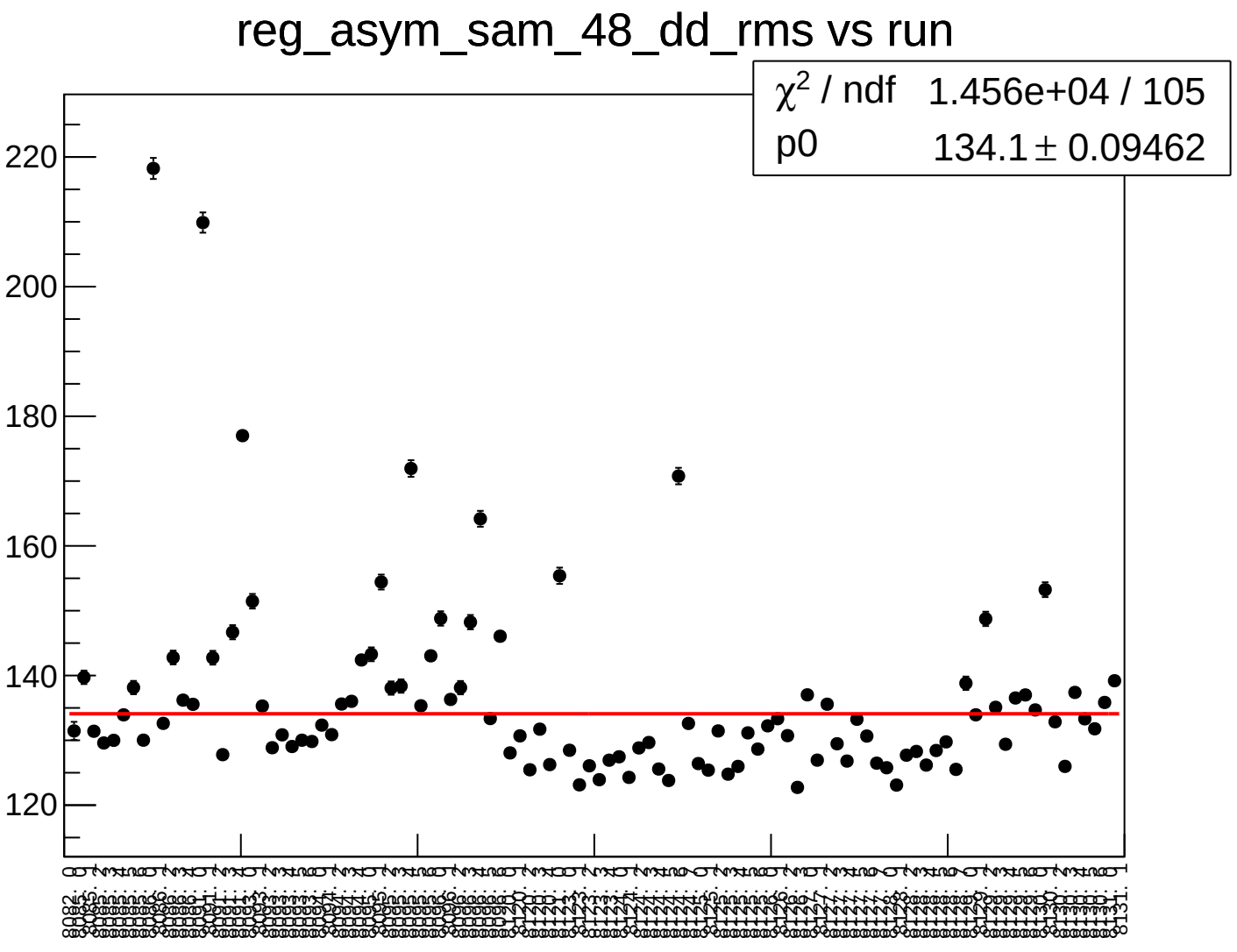

asym_sam_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 74.13 / 105
p0 5.578e−14 ± 5.201e−14
pull
Entries 106
Mean −37.39
Std Dev 0

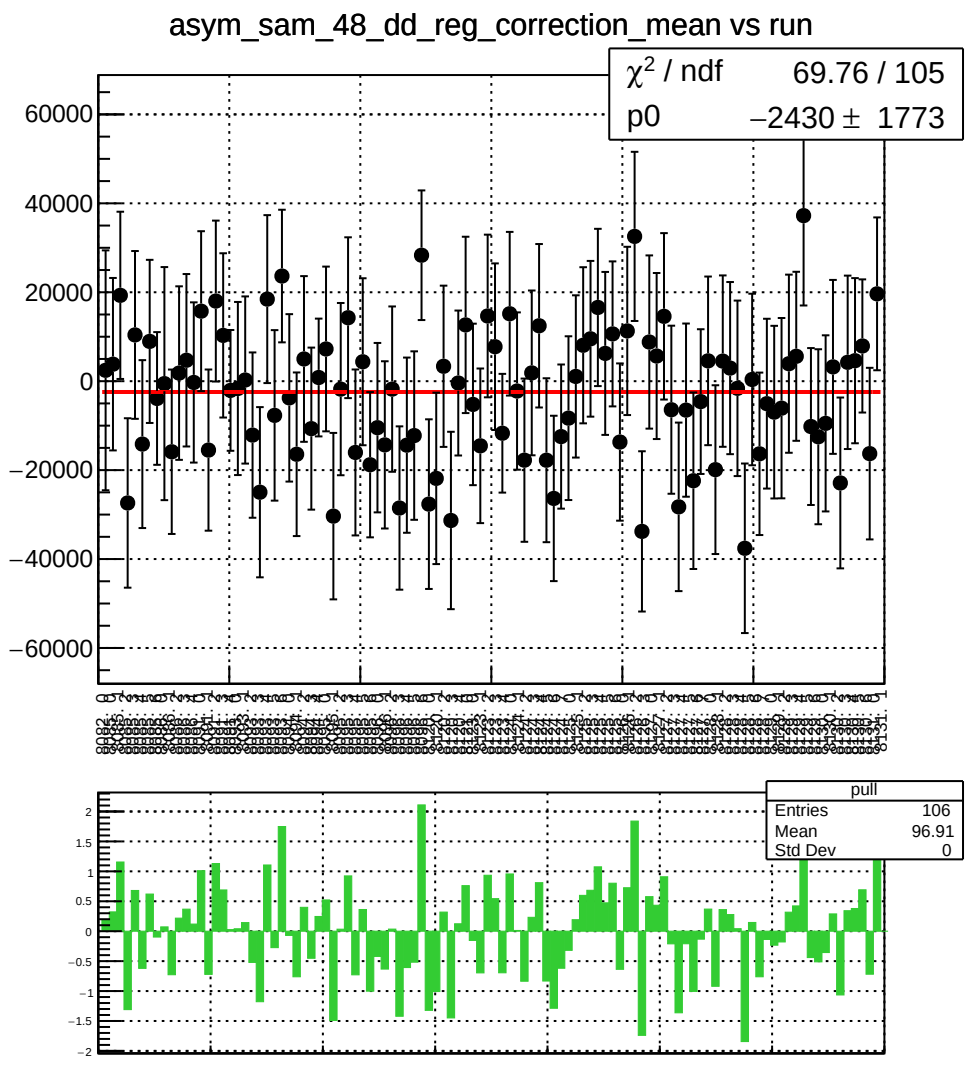

pull1D
Entries 106
Mean 0.01641
Std Dev 0.8361

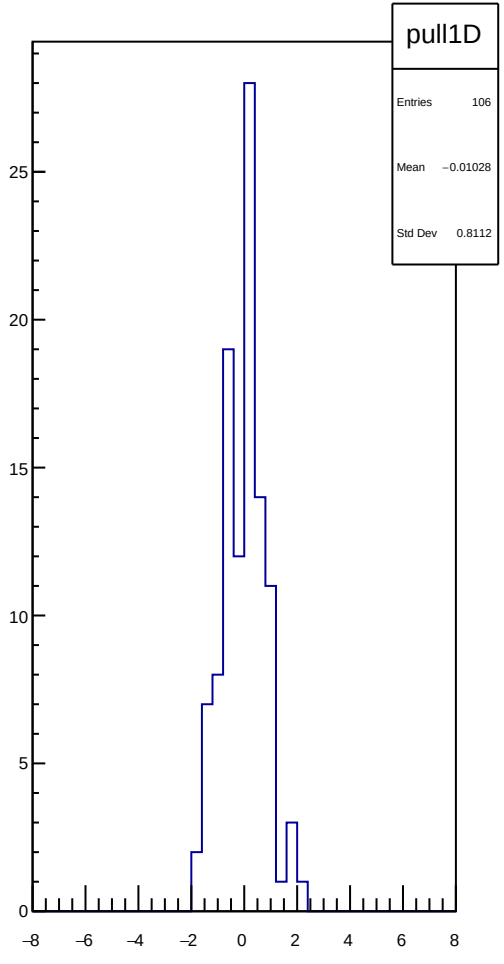

asym_sam_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.637e+05 / 105
p0 4.127e−11 ± 3.678e−14
0.25
0.2
0.15
0.1
0.05

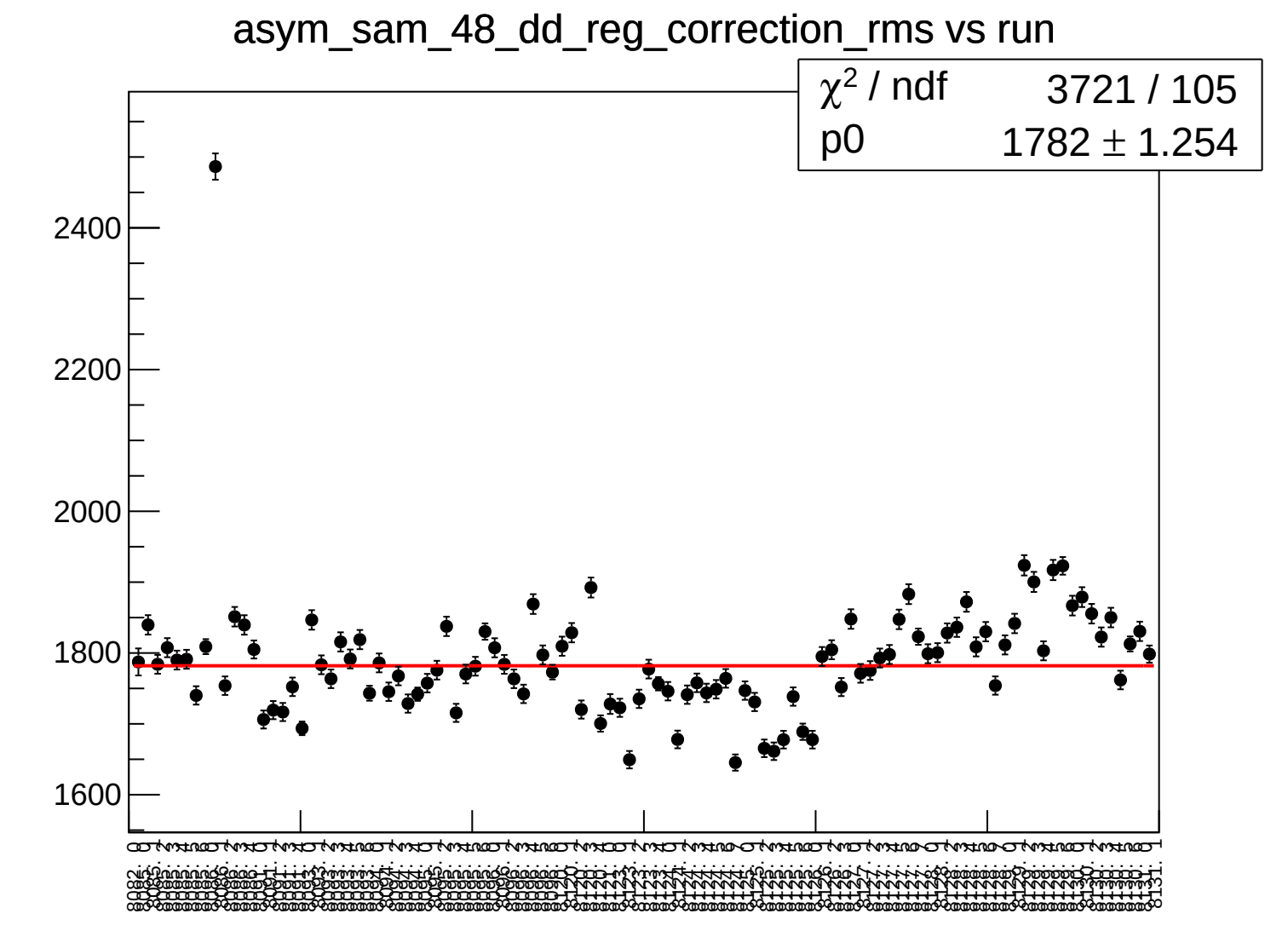

reg_asym_sam_48_dd_mean vs run
χ² / ndf 91.59 / 105
p0 46.81 ± 133.8
4000
2000
0
−2000
−4000
pull
Entries 106
Mean 6.889e+05
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

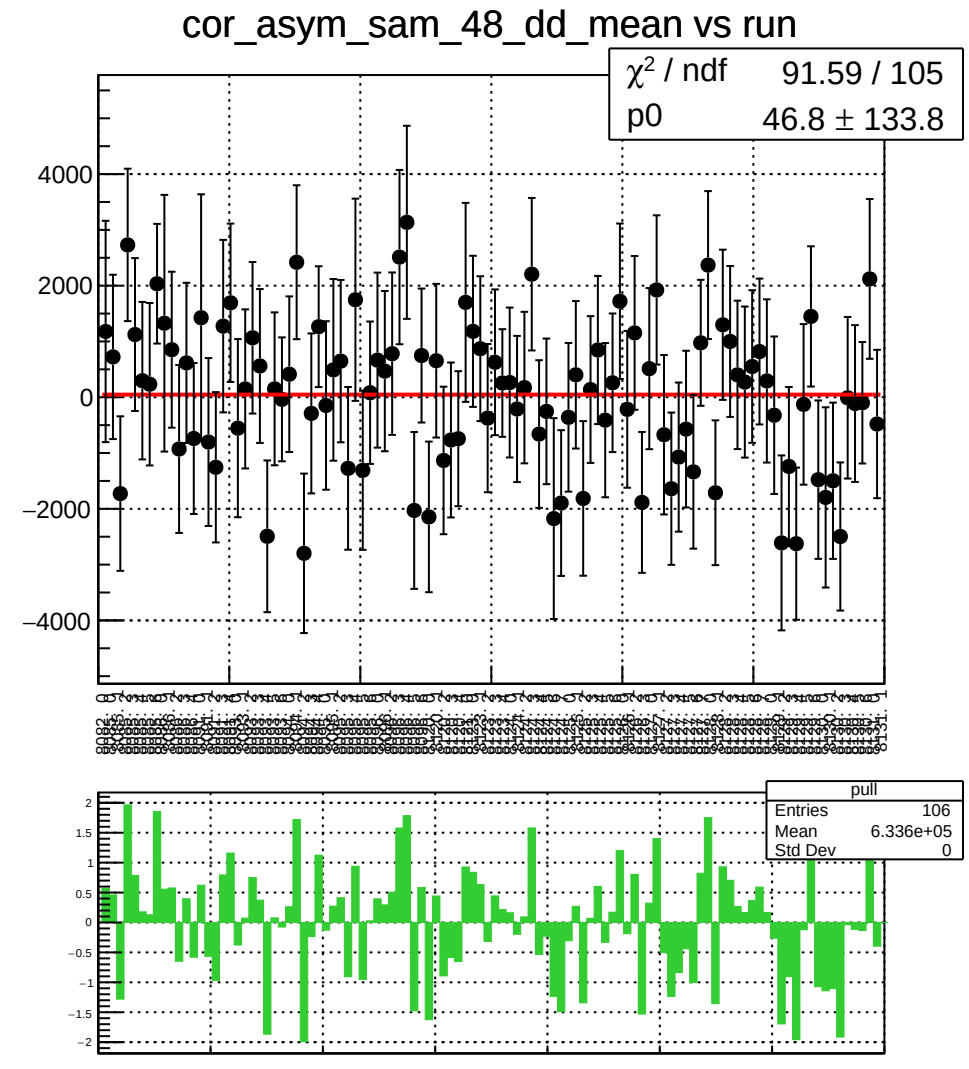

pull1D
Entries 106
Mean −8.177e−06
Std Dev 0.9296
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

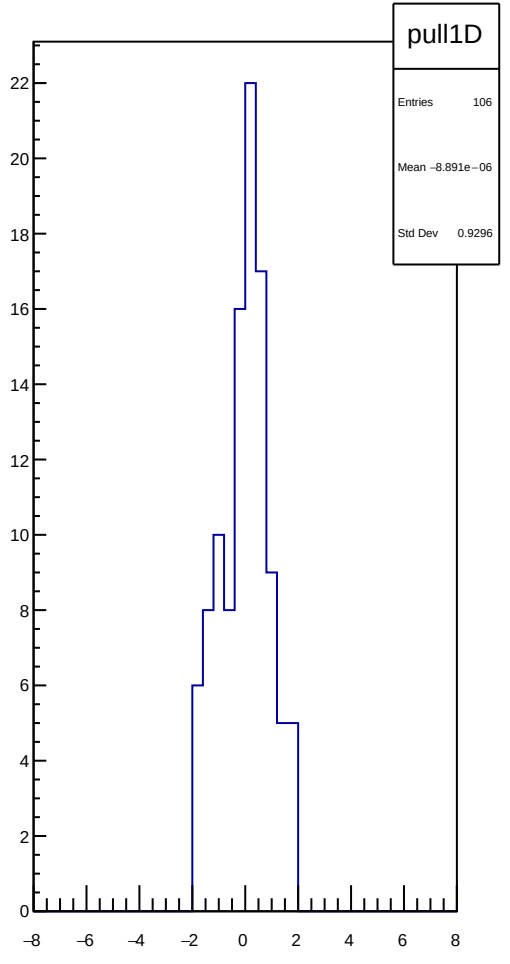

reg_asym_sam_48_dd_rms vs run
$\chi^2$ / ndf 1.456e+04 / 105
p0 134.1 ± 0.09462
220
200
180
160
140
120

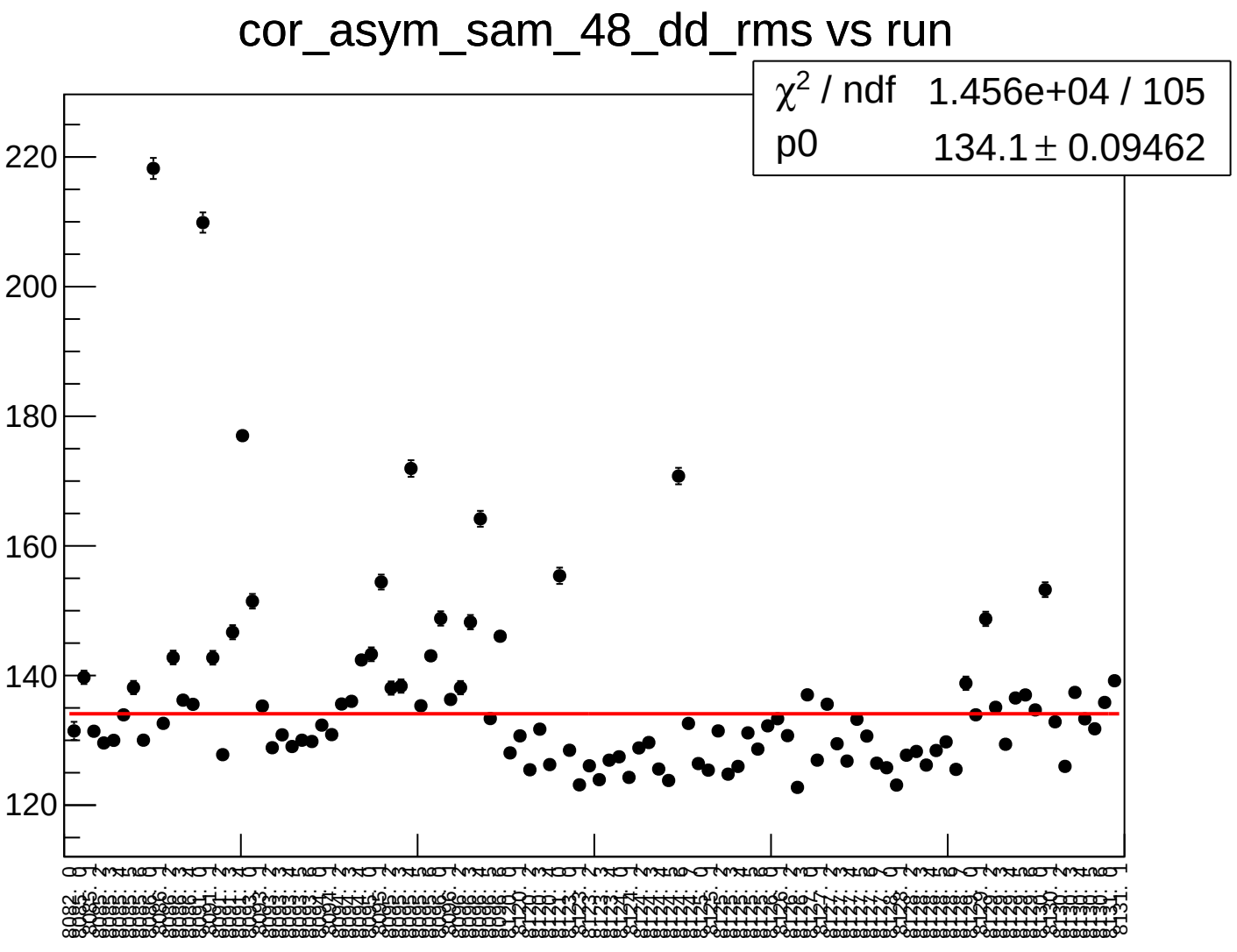

asym_sam_48_dd_reg_correction_mean vs run
χ² / ndf 69.76 / 105
p0 −2430 ± 1773
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean 96.91
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

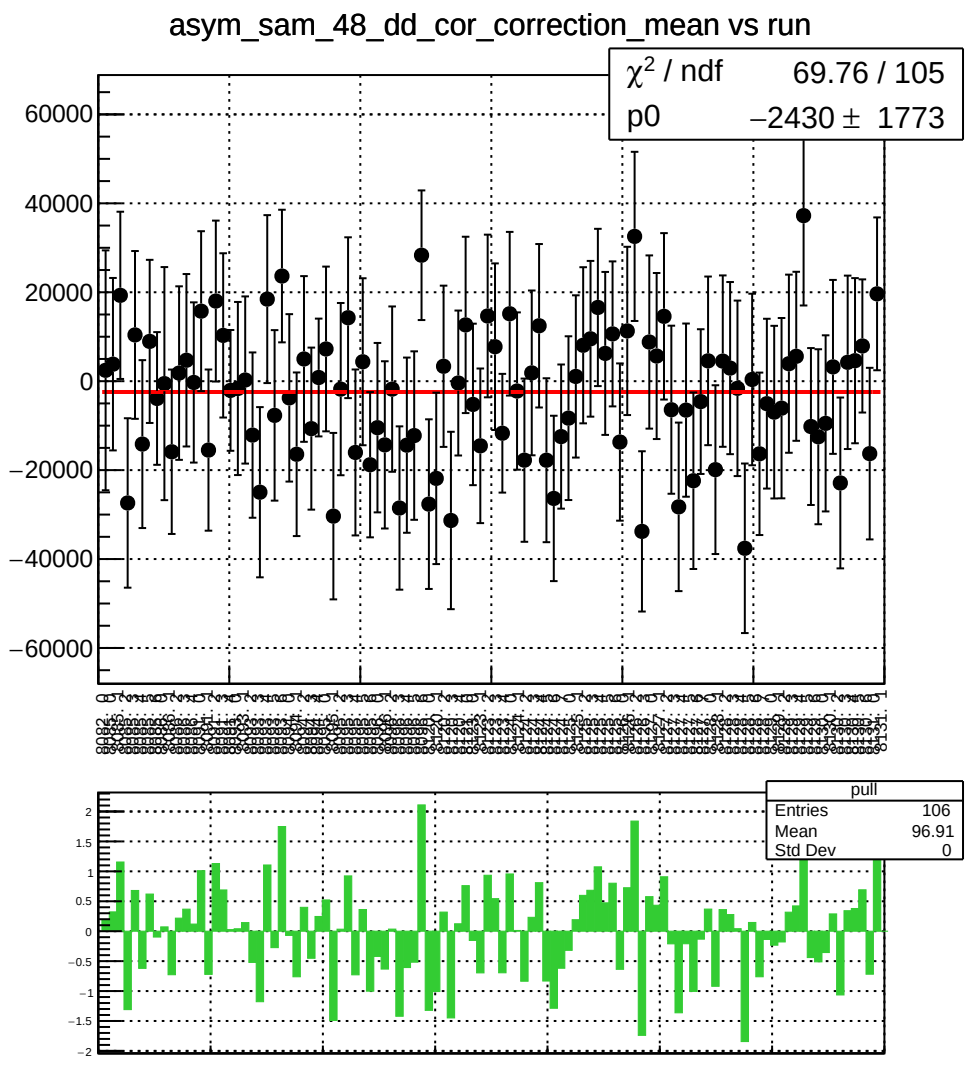

pull1D
Entries 106
Mean −0.01028
Std Dev 0.8112
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

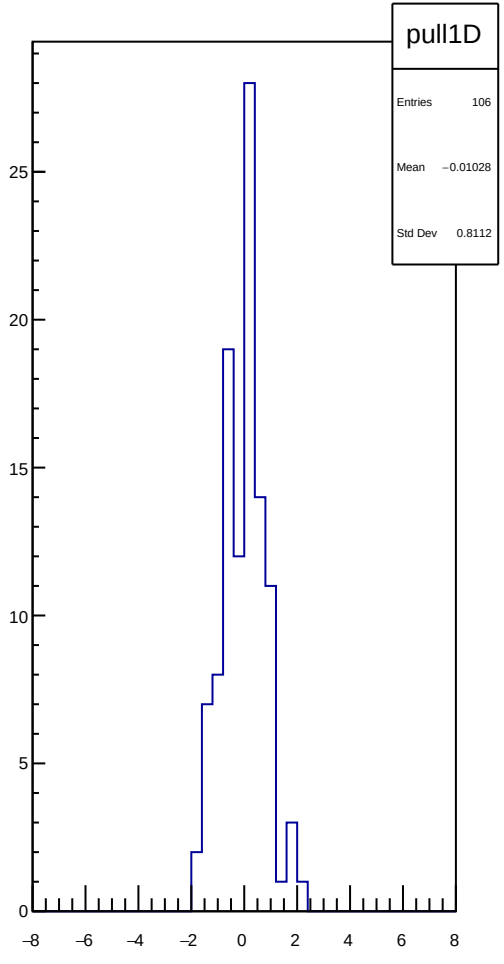

asym_sam_48_dd_reg_correction_rms vs run
χ² / ndf 3721 / 105
p0 1782 ± 1.254
2400
2200
2000
1800
1600


cor_asym_sam_48_dd_mean vs run
χ² / ndf 91.59 / 105
p0 46.8 ± 133.8
4000
2000
0
−2000
−4000
pull
Entries 106
Mean 6.336e+05
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 106
Mean −8.891e−06
Std Dev 0.9296
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


cor_asym_sam_48_dd_rms vs run
$\chi^2$ / ndf 1.456e+04 / 105
p0 134.1 ± 0.09462
220
200
180
160
140
120


asym_sam_48_dd_cor_correction_mean vs run
χ² / ndf 69.76 / 105
p0 −2430 ± 1773
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean 96.91
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 106
Mean −0.01028
Std Dev 0.8112
25
20
15
10
5
0
−8
−6
−4
−2
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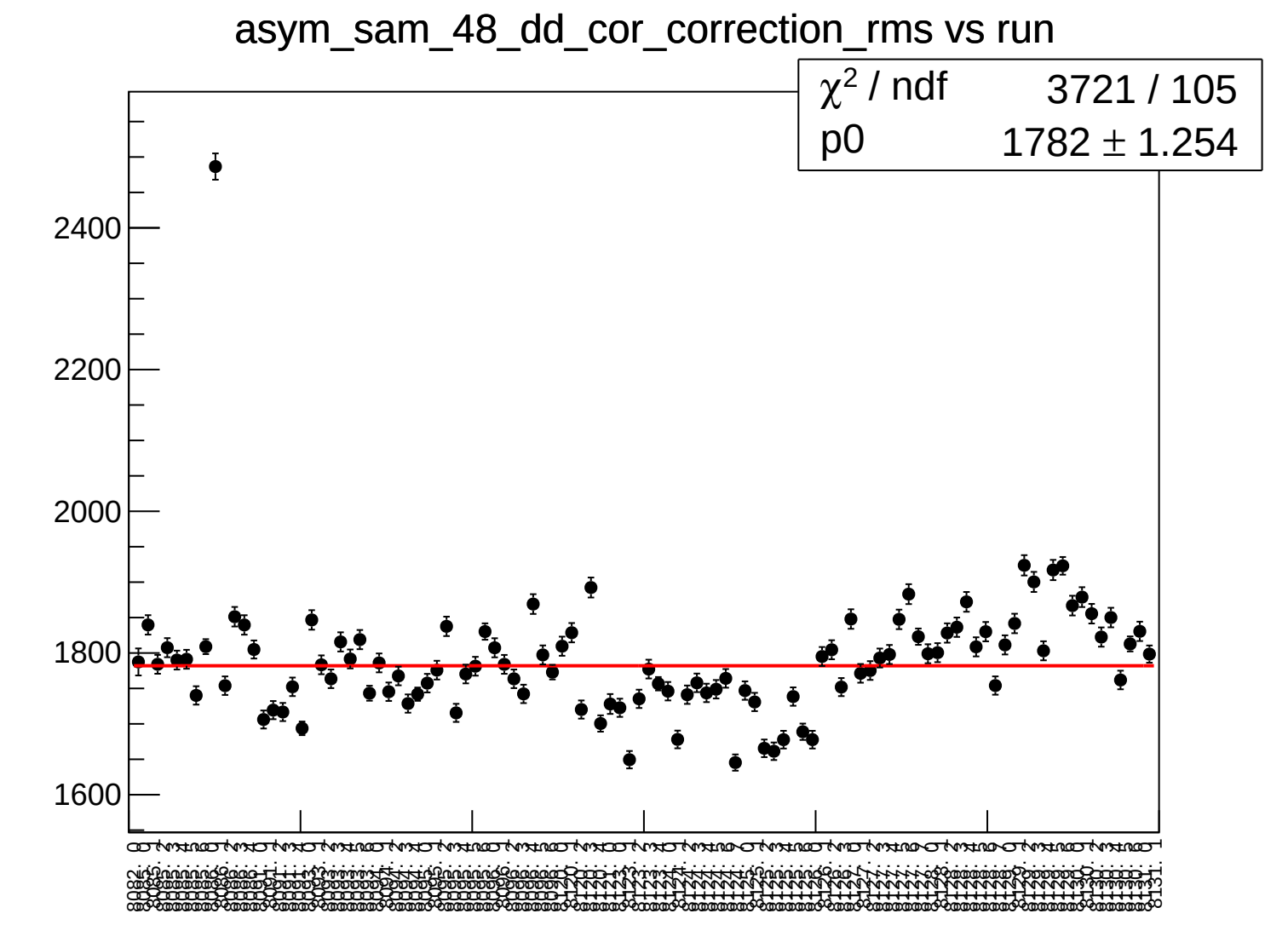
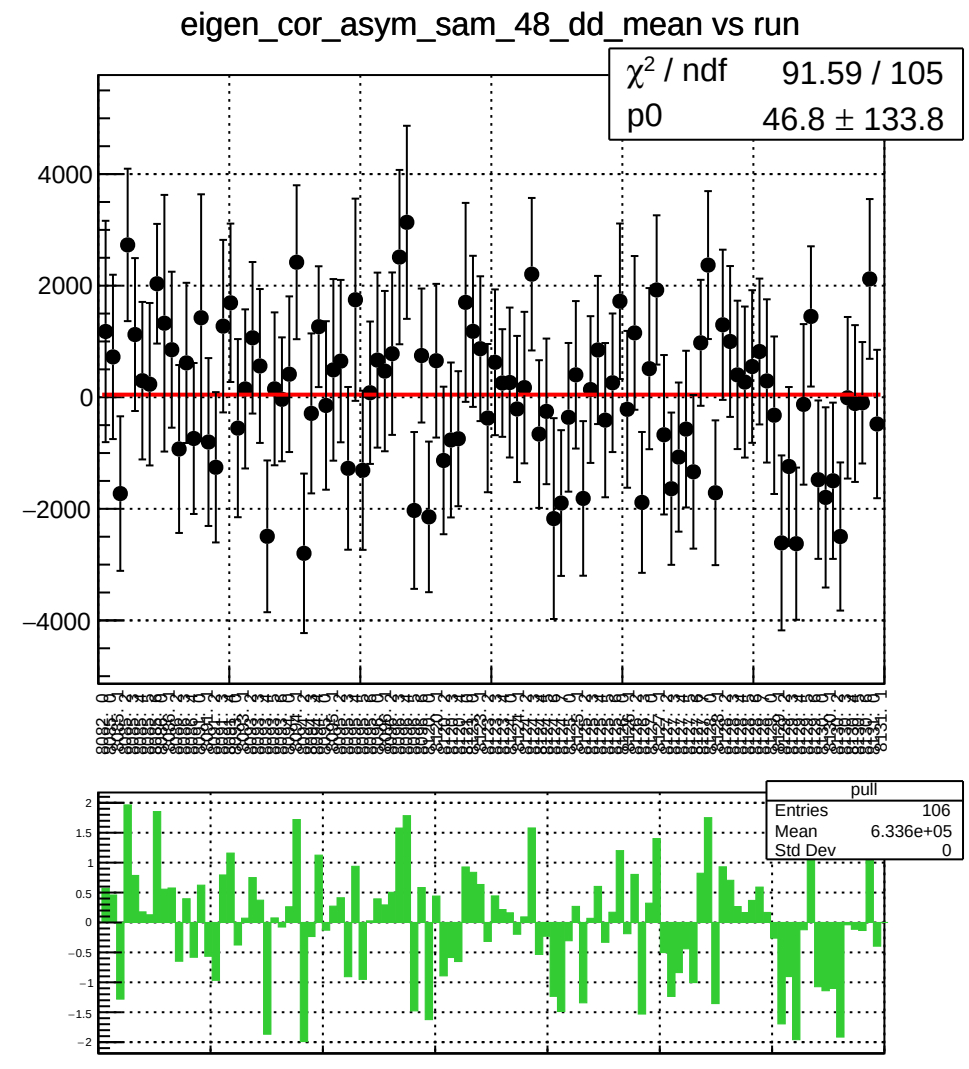
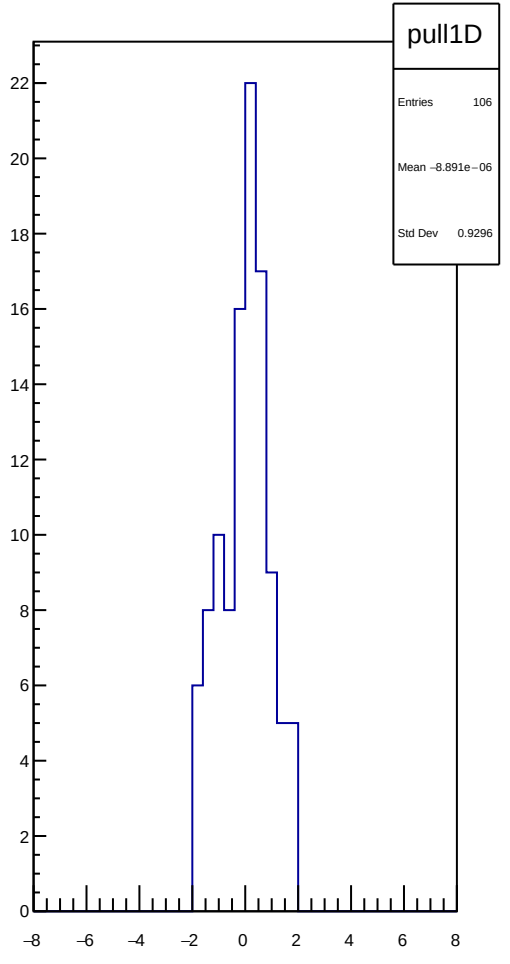
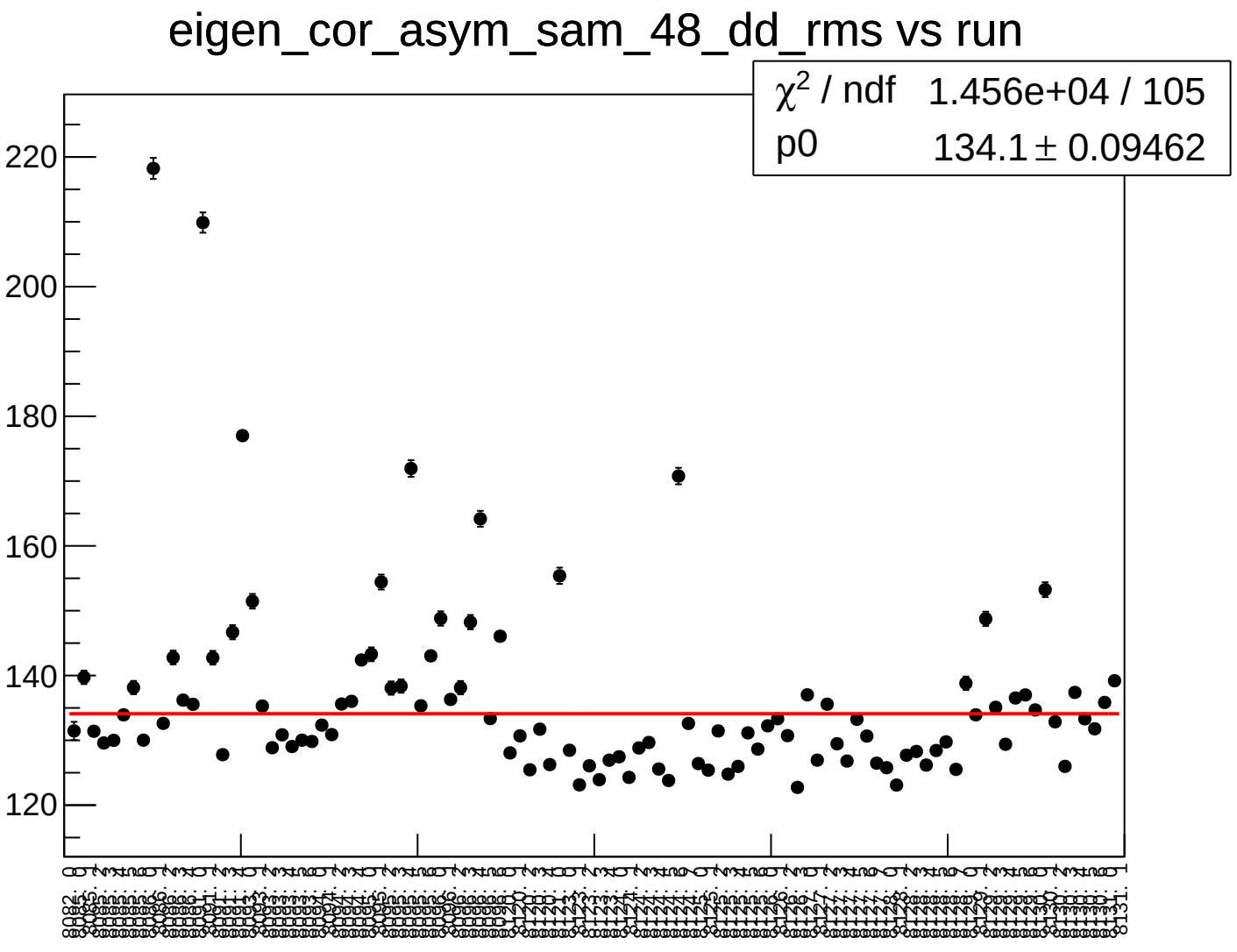
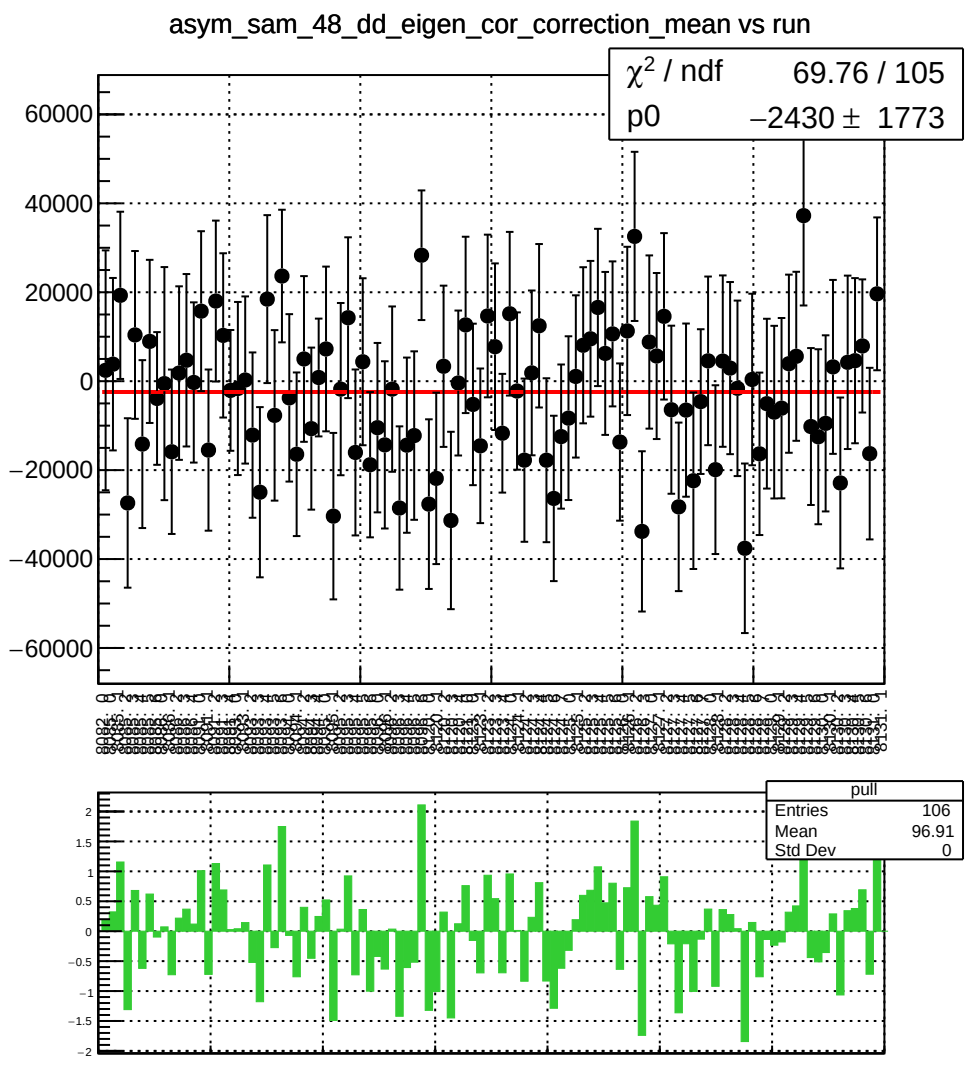
2
4
6
8

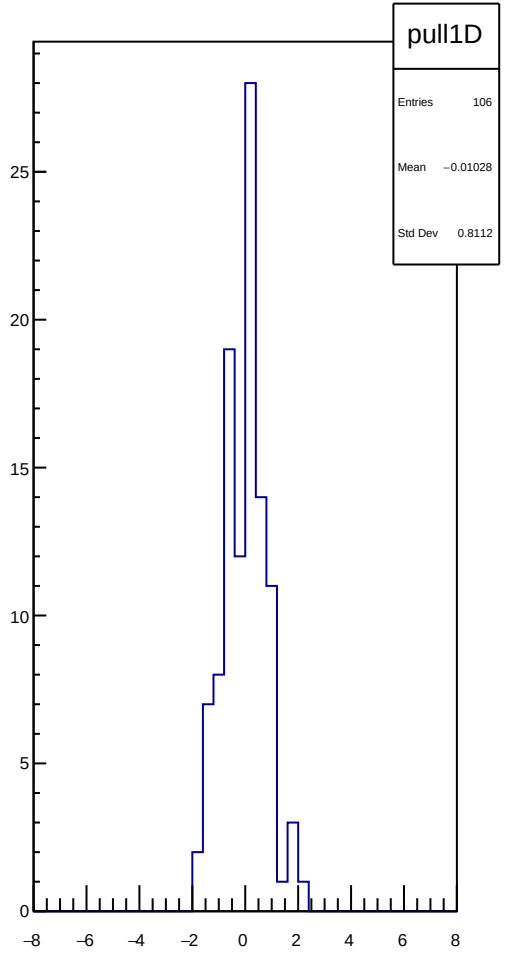

asym_sam_48_dd_cor_correction_rms vs run
χ² / ndf 3721 / 105
p0 1782 ± 1.254
2400
2200
2000
1800
1600

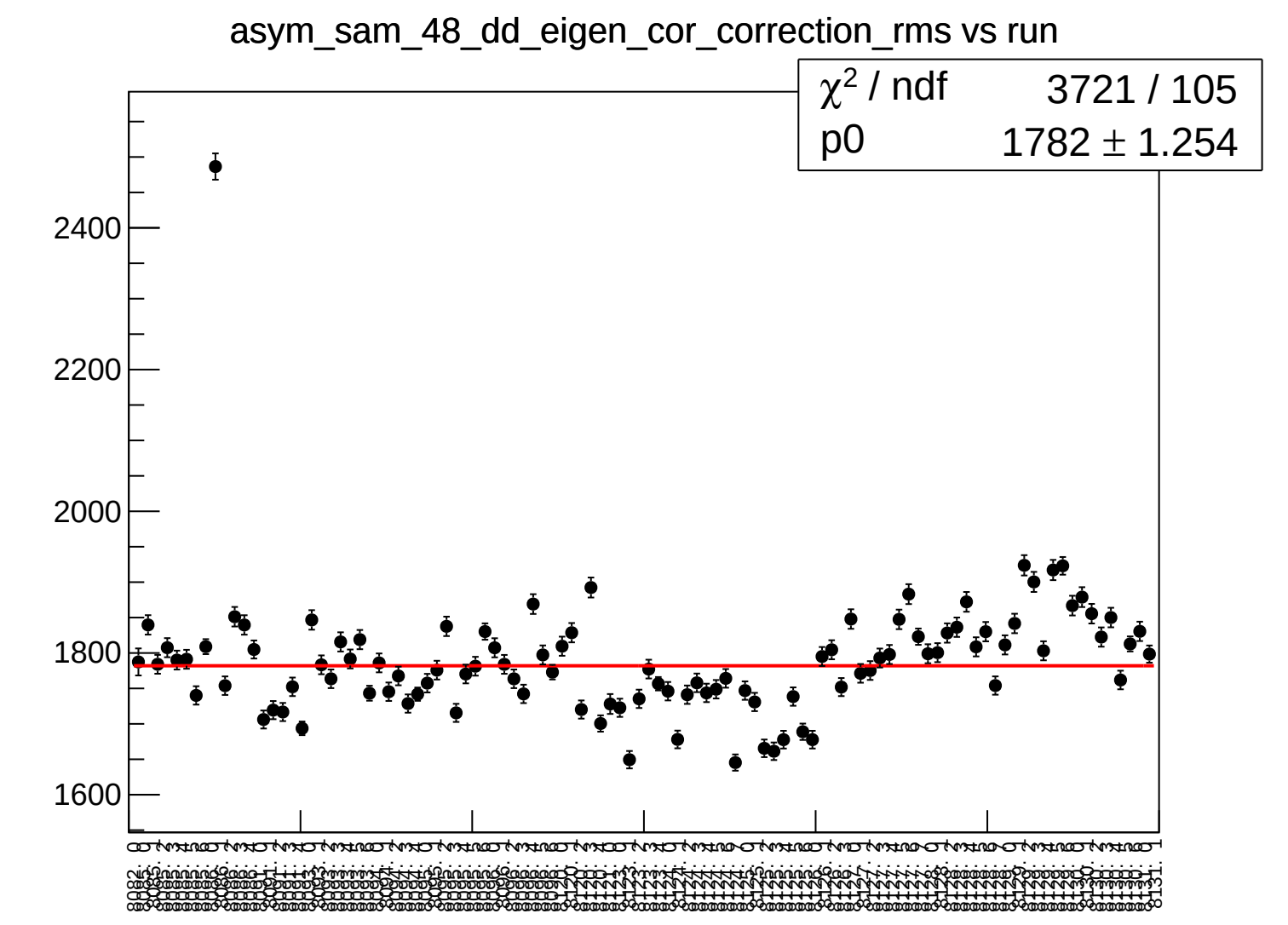

eigen_cor_asym_sam_48_dd_mean vs run
χ² / ndf 91.59 / 105
p0 46.8 ± 133.8
4000
2000
0
−2000
−4000
pull
Entries 106
Mean 6.336e+05
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

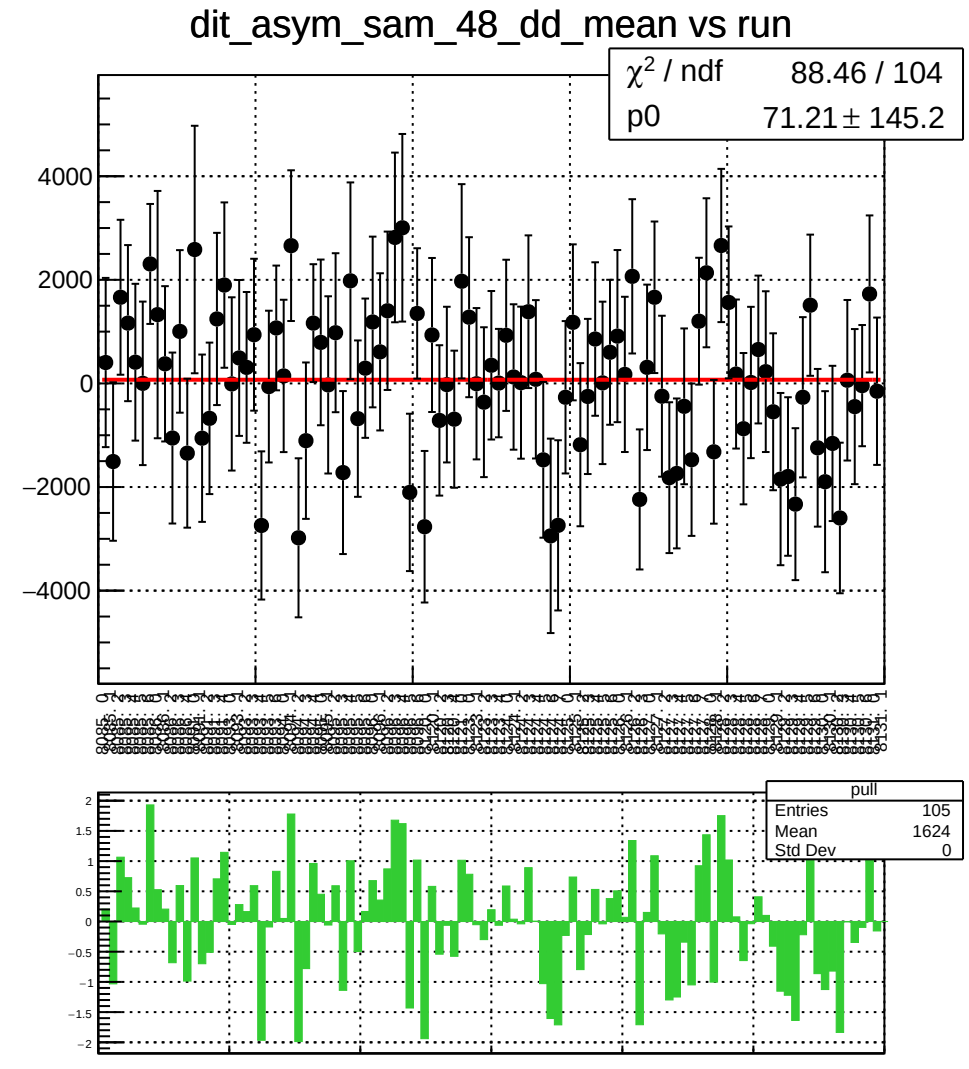

pull1D
Entries 106
Mean −8.891e−06
Std Dev 0.9296
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

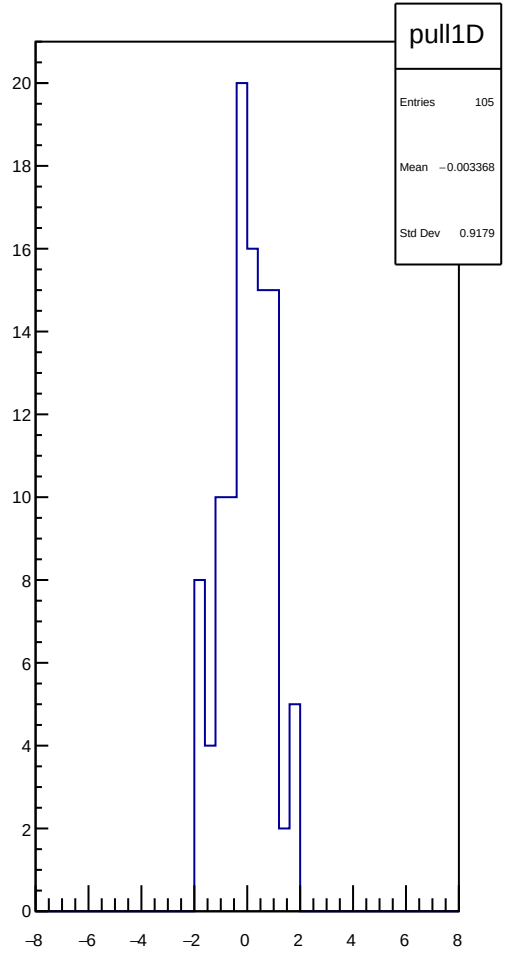

eigen_cor_asym_sam_48_dd_rms vs run
$\chi^2$ / ndf 1.456e+04 / 105
p0 134.1 ± 0.09462
220
200
180
160
140
120

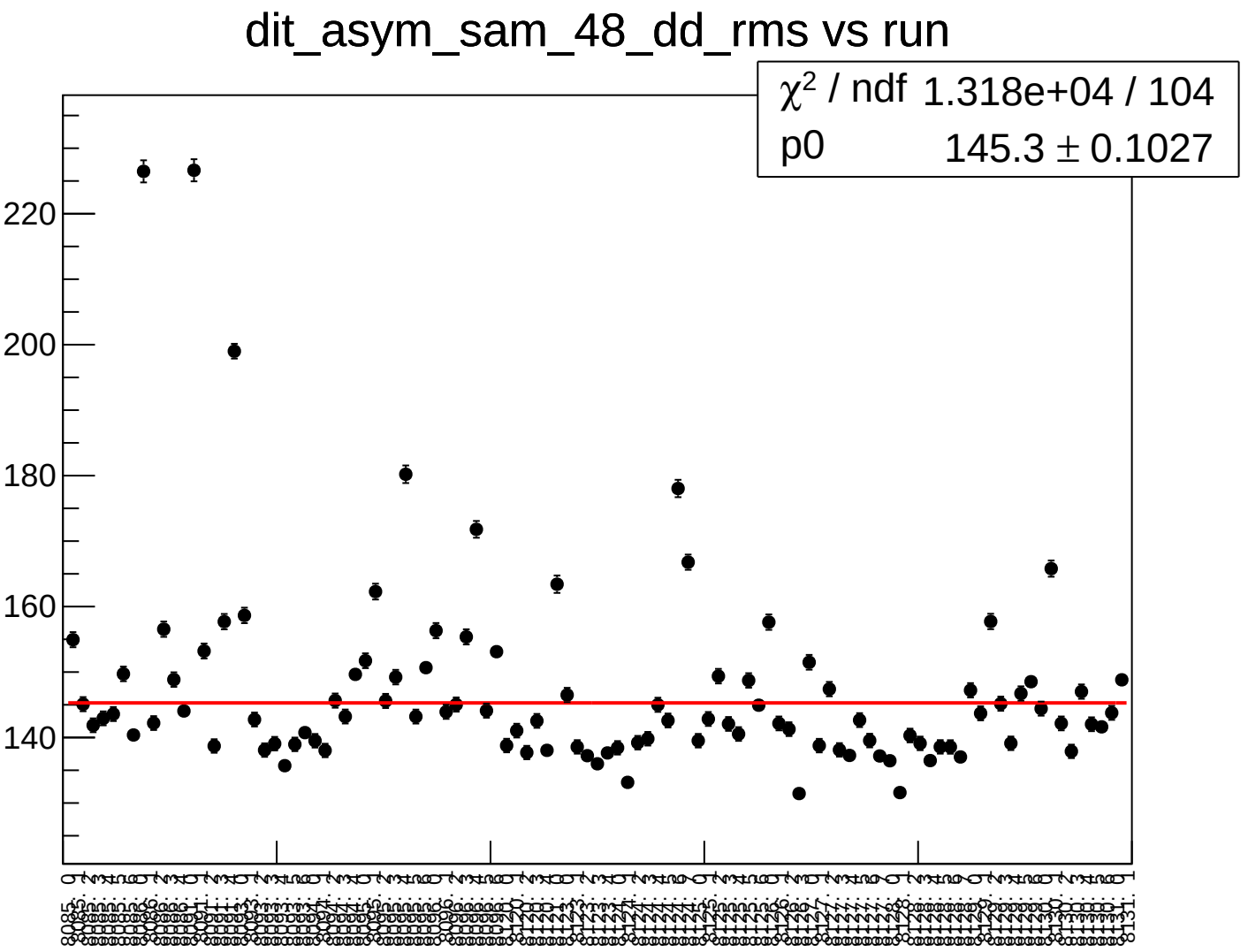

asym_sam_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 69.76 / 105
p0 −2430 ± 1773
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean 96.91
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

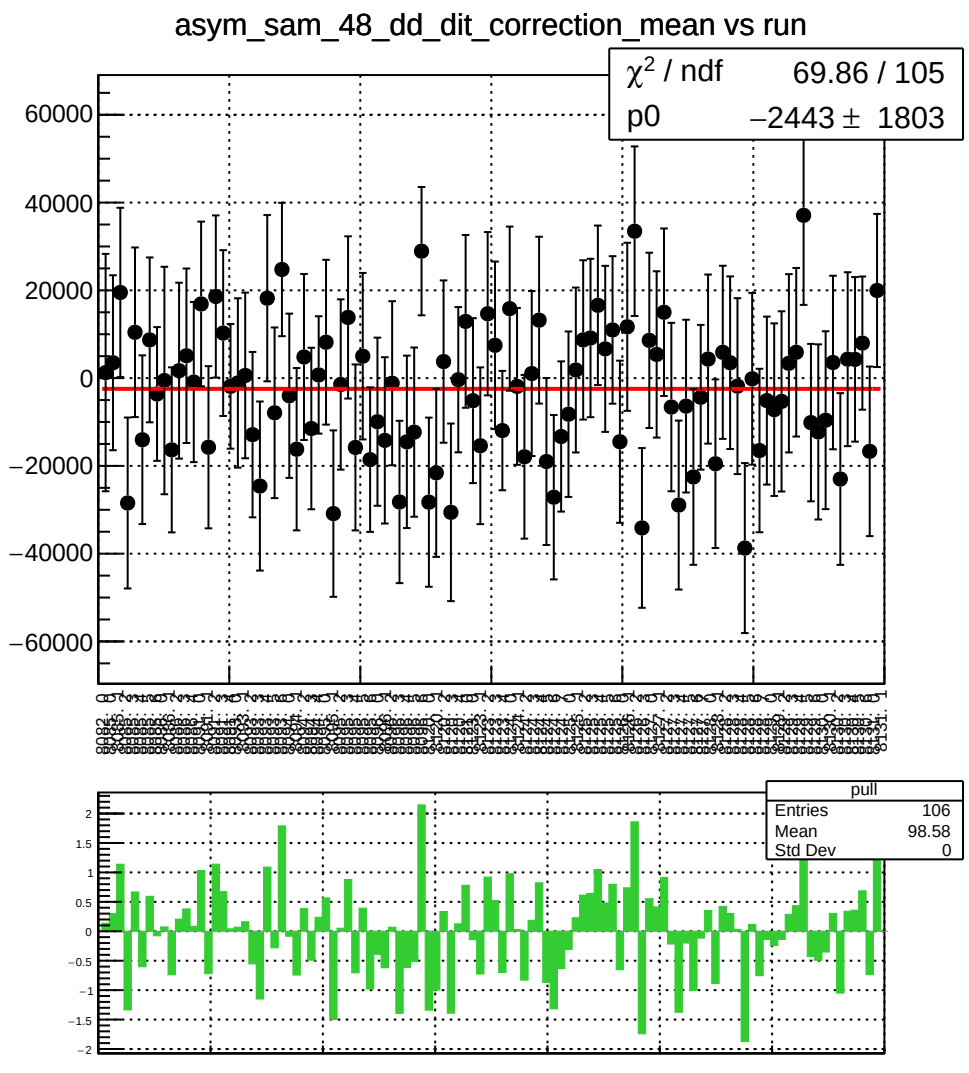

pull1D
Entries 106
Mean −0.01028
Std Dev 0.8112
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

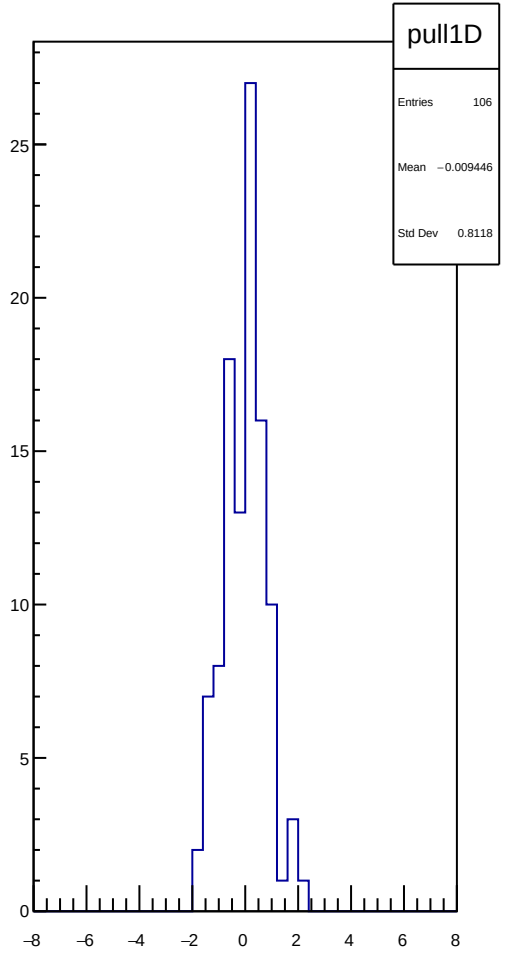

asym_sam_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 3721 / 105
p0 1782 ± 1.254
2400
2200
2000
1800
1600

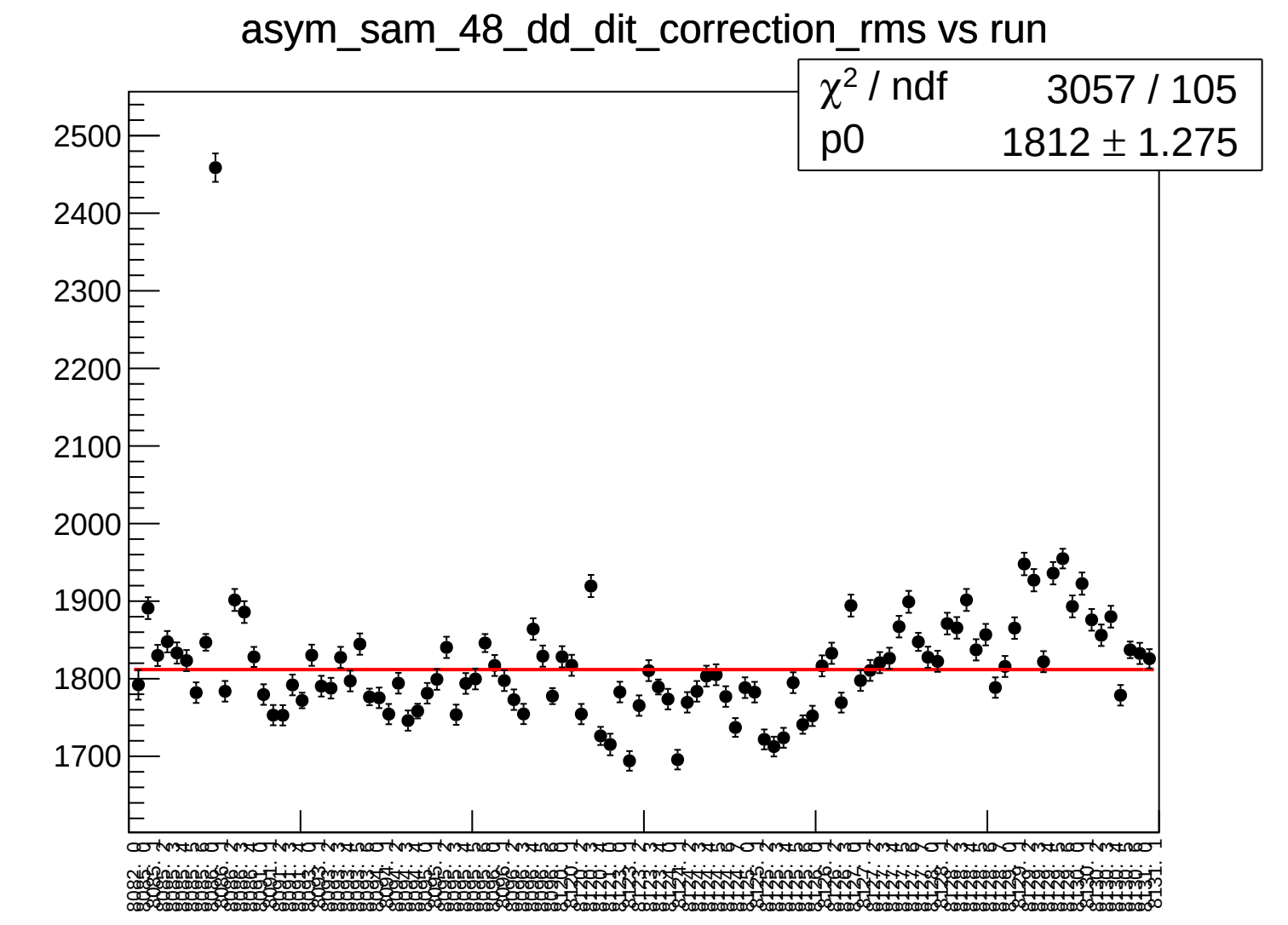

dit_asym_sam_48_dd_mean vs run
$\chi^2$ / ndf 88.46 / 104
p0 71.21 ± 145.2
4000
2000
0
−2000
−4000
pull
Entries 105
Mean 1624
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

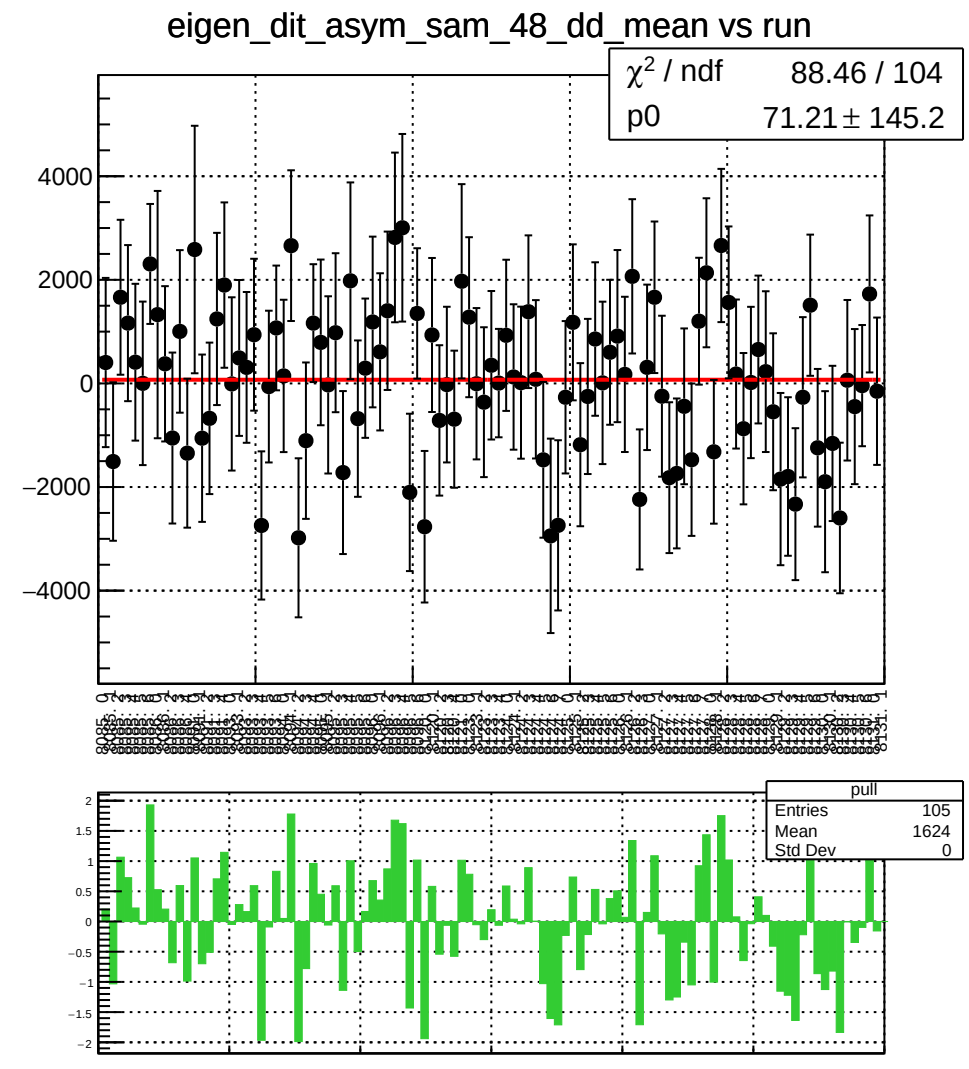

pull1D
Entries 105
Mean −0.003368
Std Dev 0.9179
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

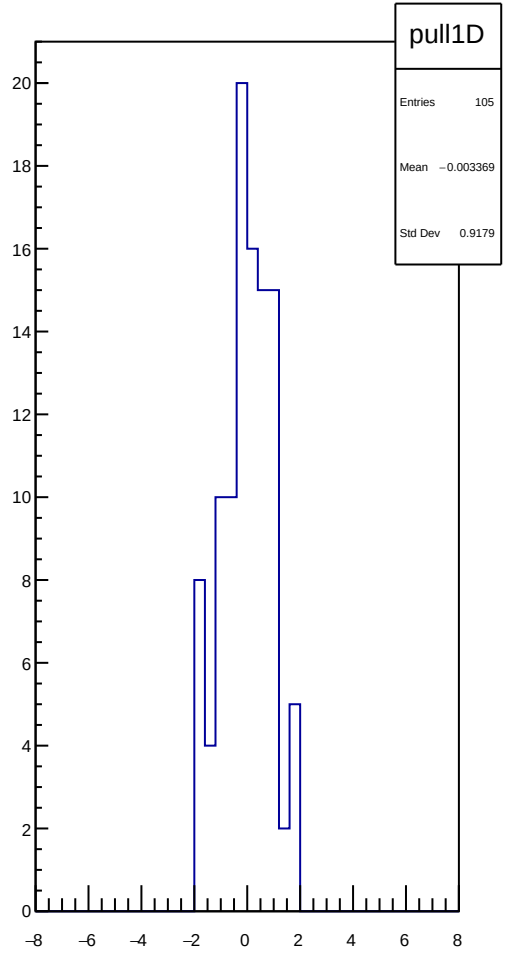

dit_asym_sam_48_dd_rms vs run
χ² / ndf 1.318e+04 / 104
p0 145.3 ± 0.1027
220
200
180
160
140

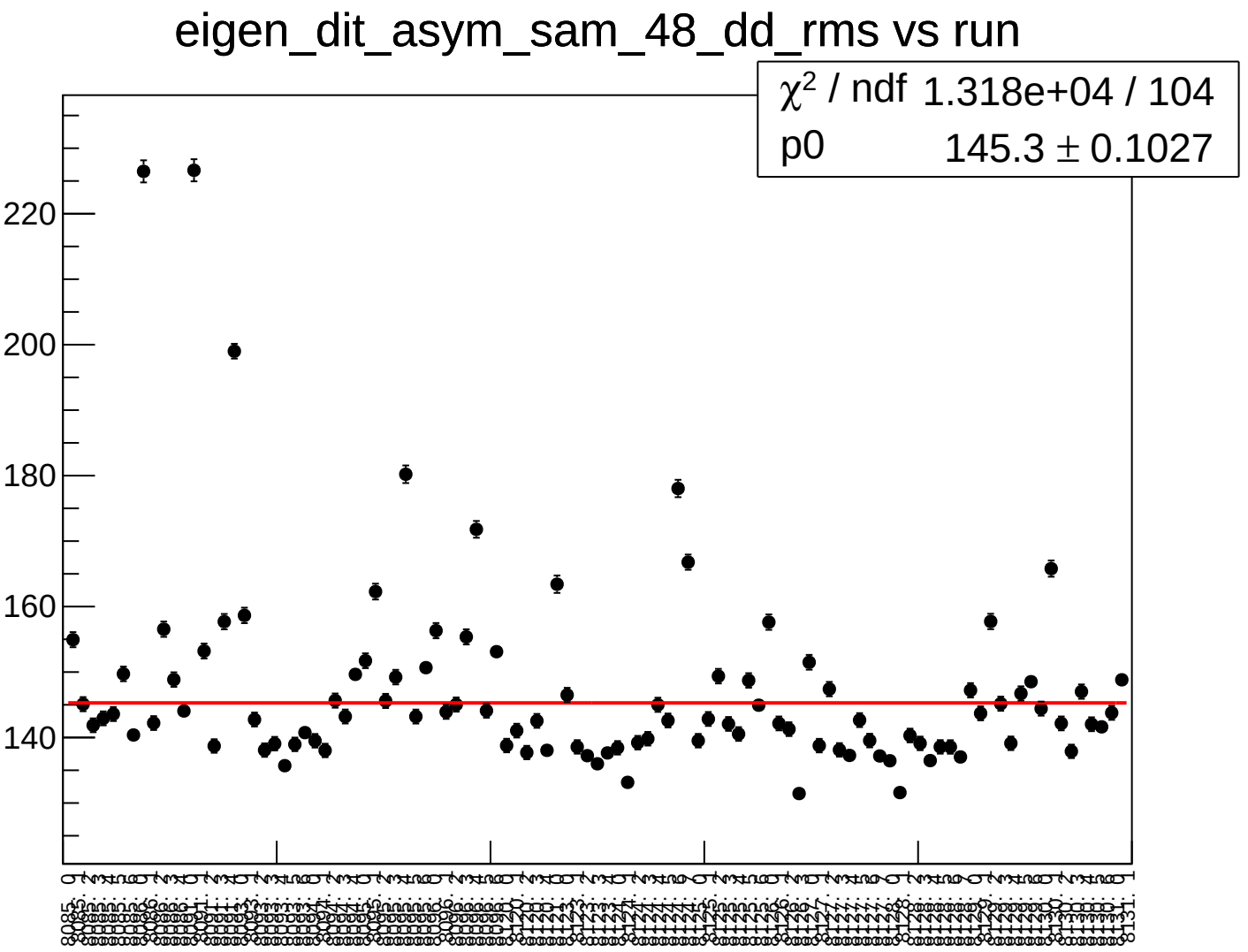

asym_sam_48_dd_dit_correction_mean vs run
χ² / ndf 69.86 / 105
p0 −2443 ± 1803
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean 98.58
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

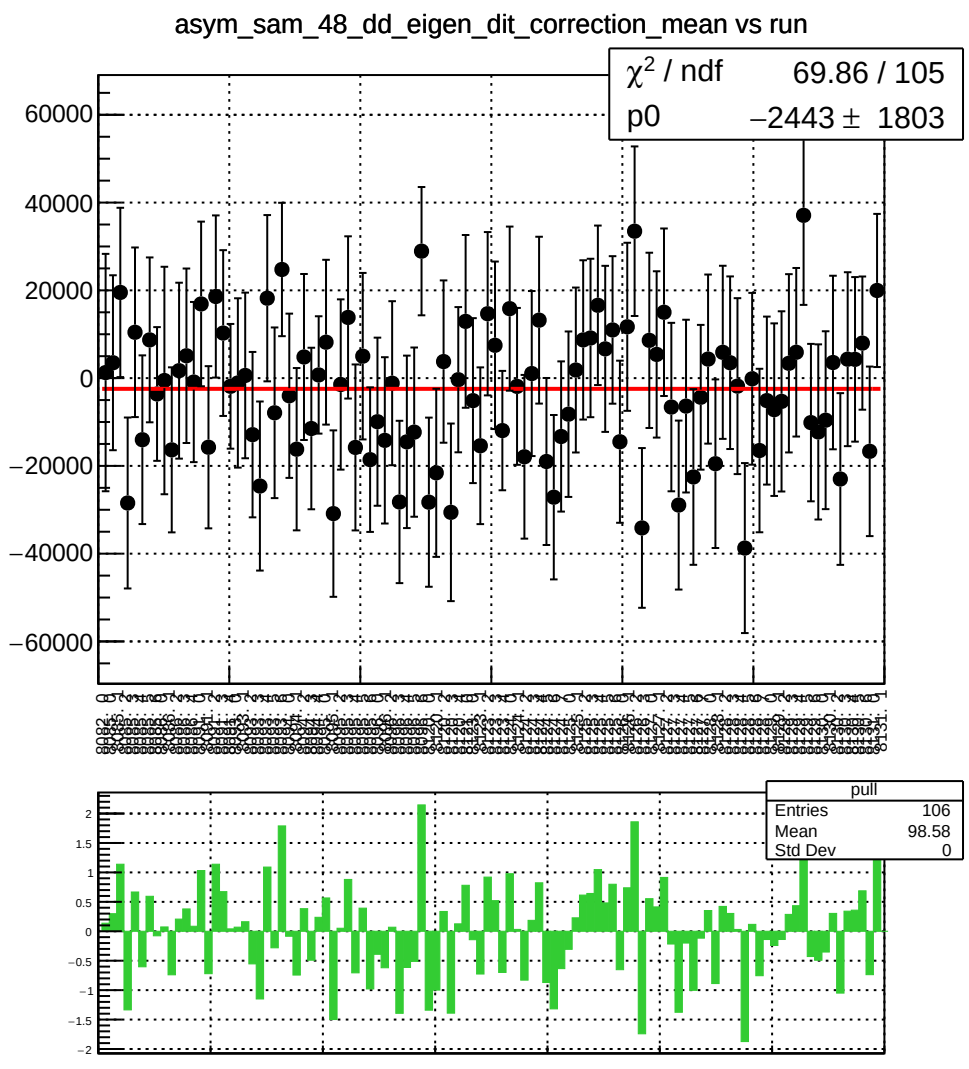

pull1D
Entries 106
Mean −0.009446
Std Dev 0.8118
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

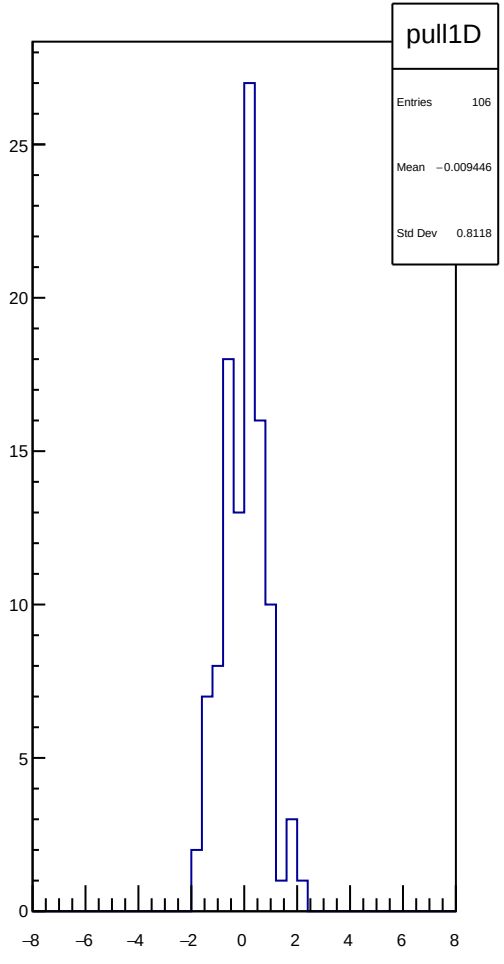

asym_sam_48_dd_dit_correction_rms vs run
χ² / ndf 3057 / 105
p0 1812 ± 1.275
2500
2400
2300
2200
2100
2000
1900
1800
1700

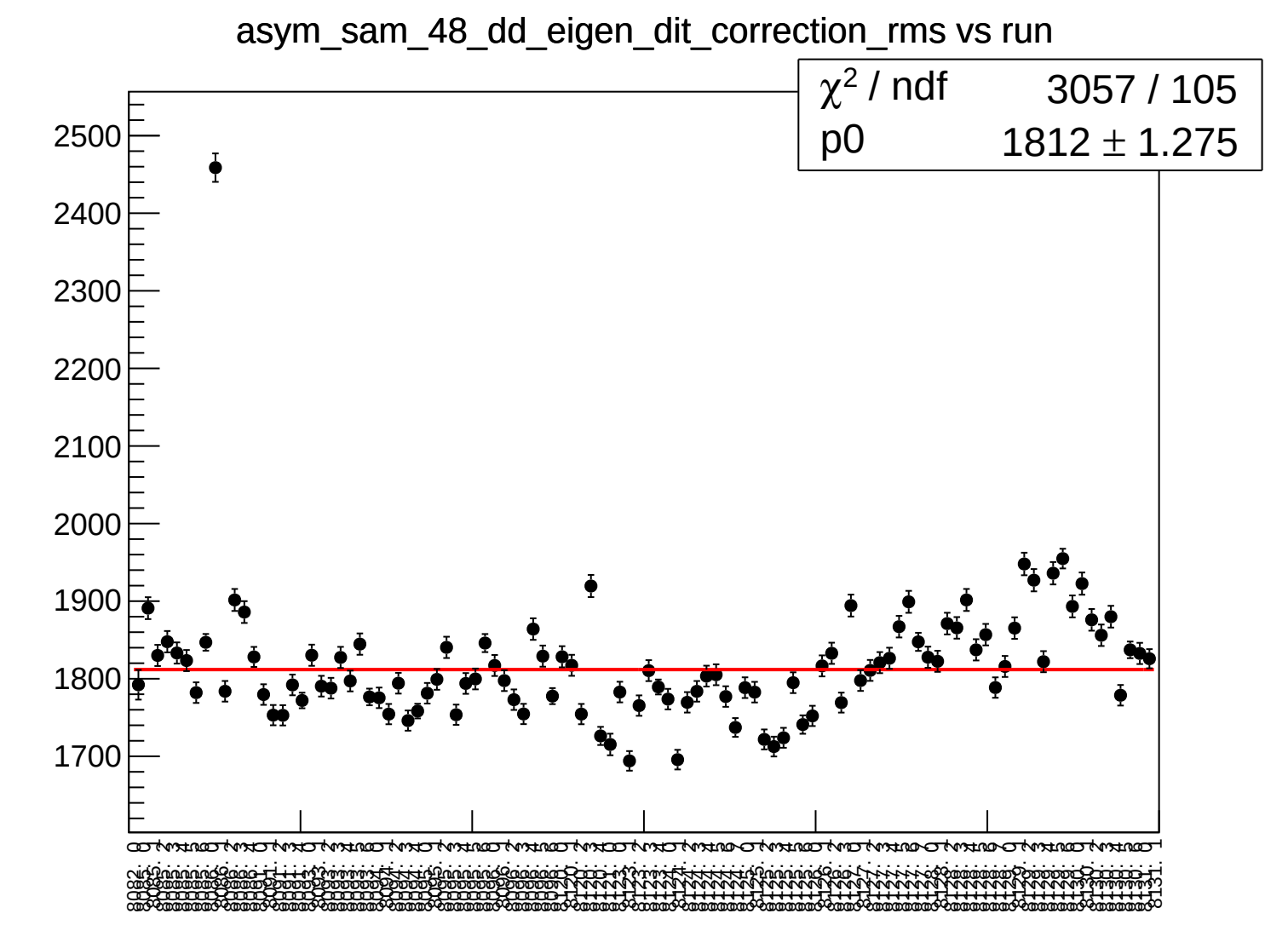

eigen_dit_asym_sam_48_dd_mean vs run
χ² / ndf 88.46 / 104
p0 71.21 ± 145.2
4000
2000
0
−2000
−4000
pull
Entries 105
Mean 1624
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

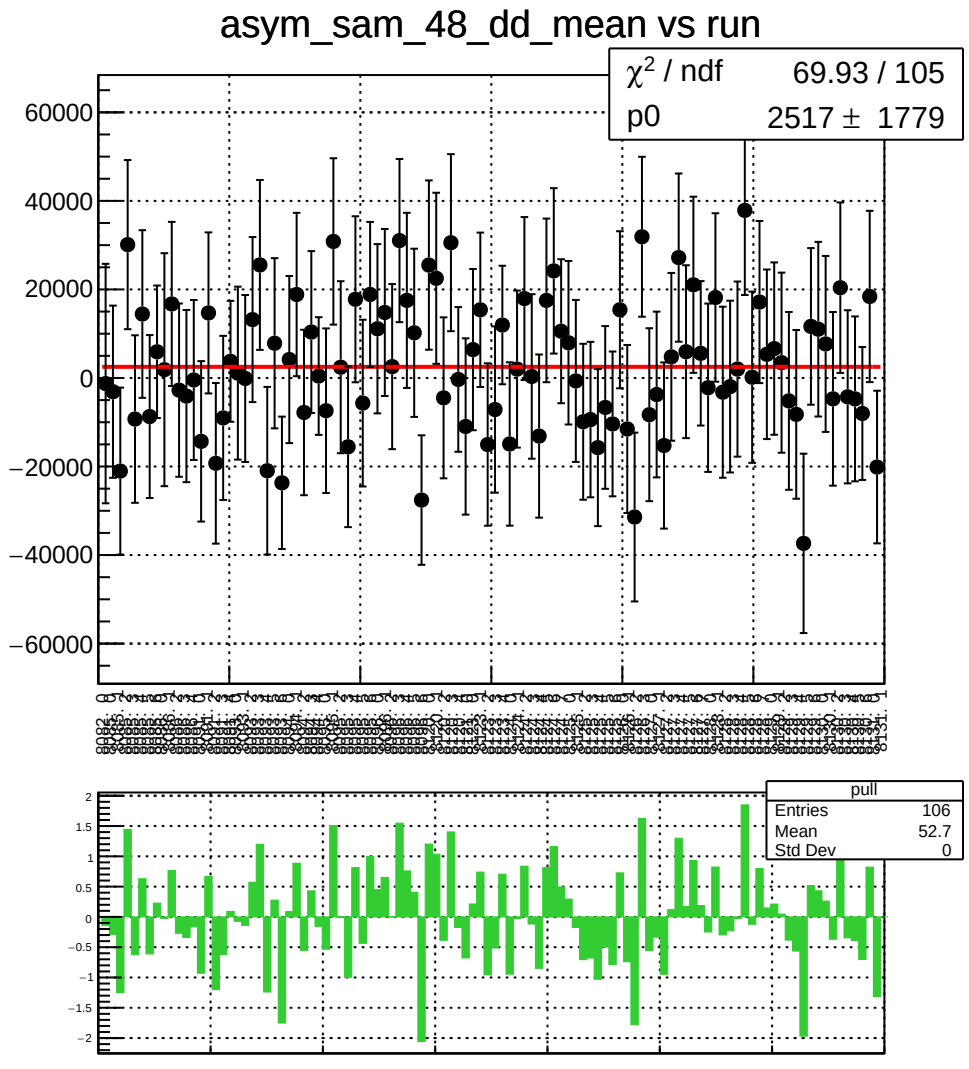

pull1D
Entries 105
Mean −0.003369
Std Dev 0.9179
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

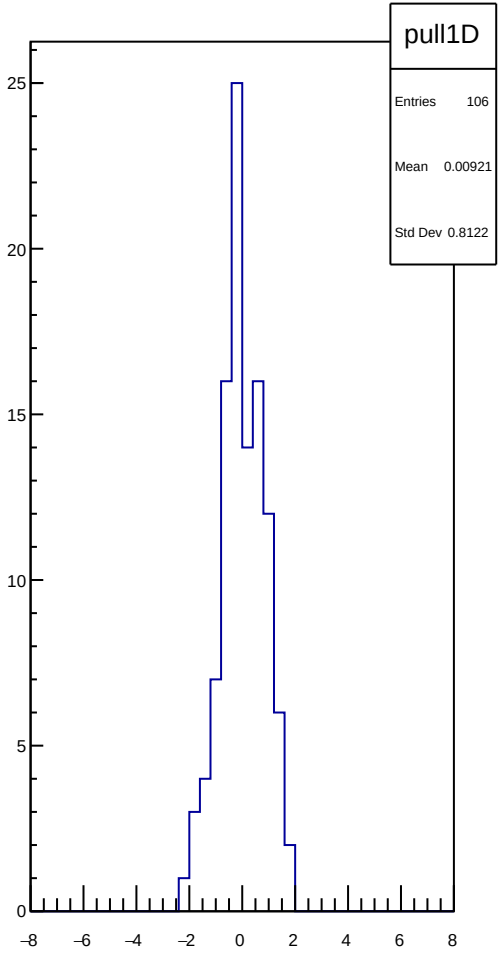

eigen_dit_asym_sam_48_dd_rms vs run
$\chi^2$ / ndf 1.318e+04 / 104
p0 145.3 ± 0.1027
220
200
180
160
140

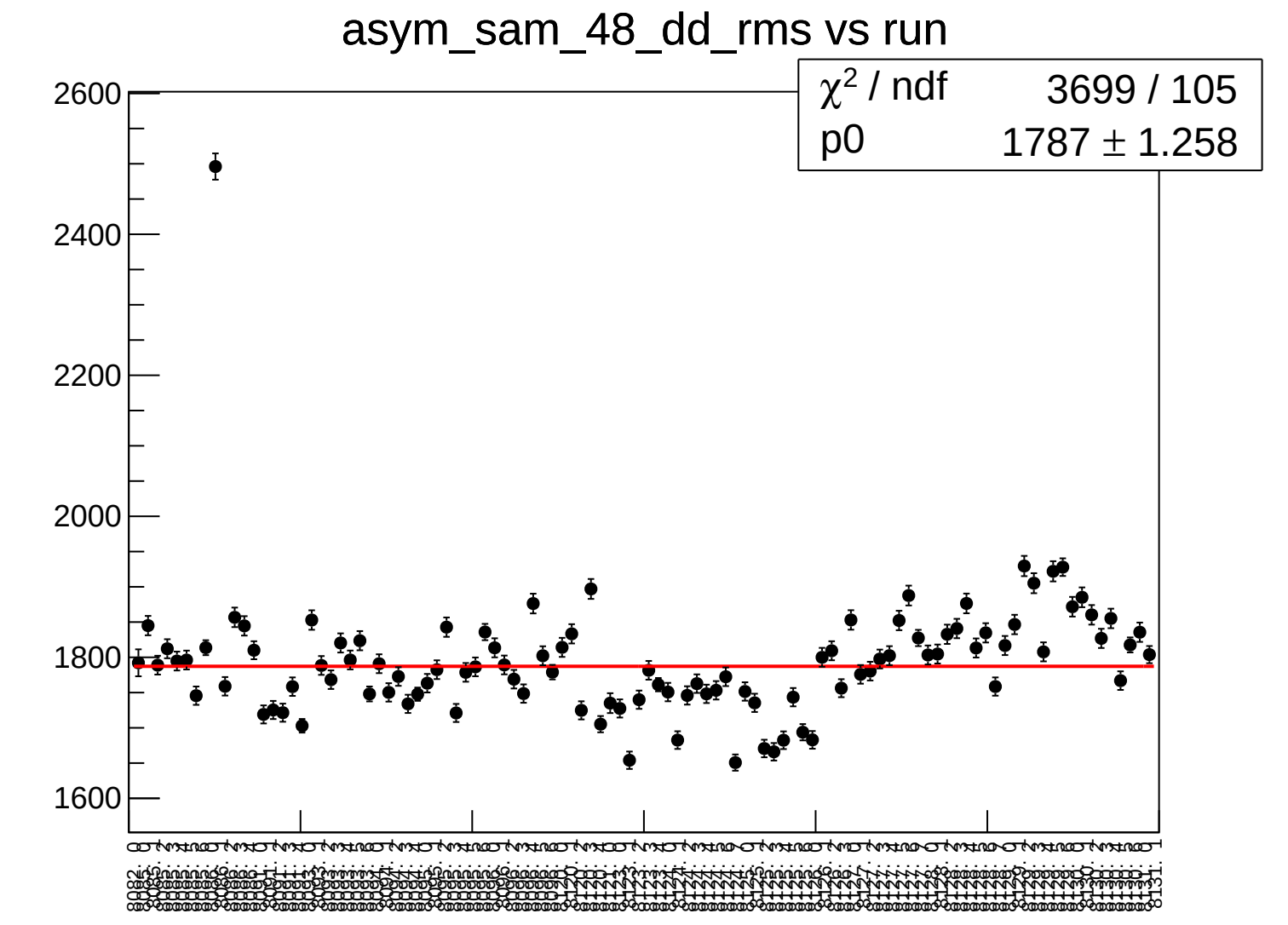

asym_sam_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 69.86 / 105
p0 −2443 ± 1803
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean 98.58
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

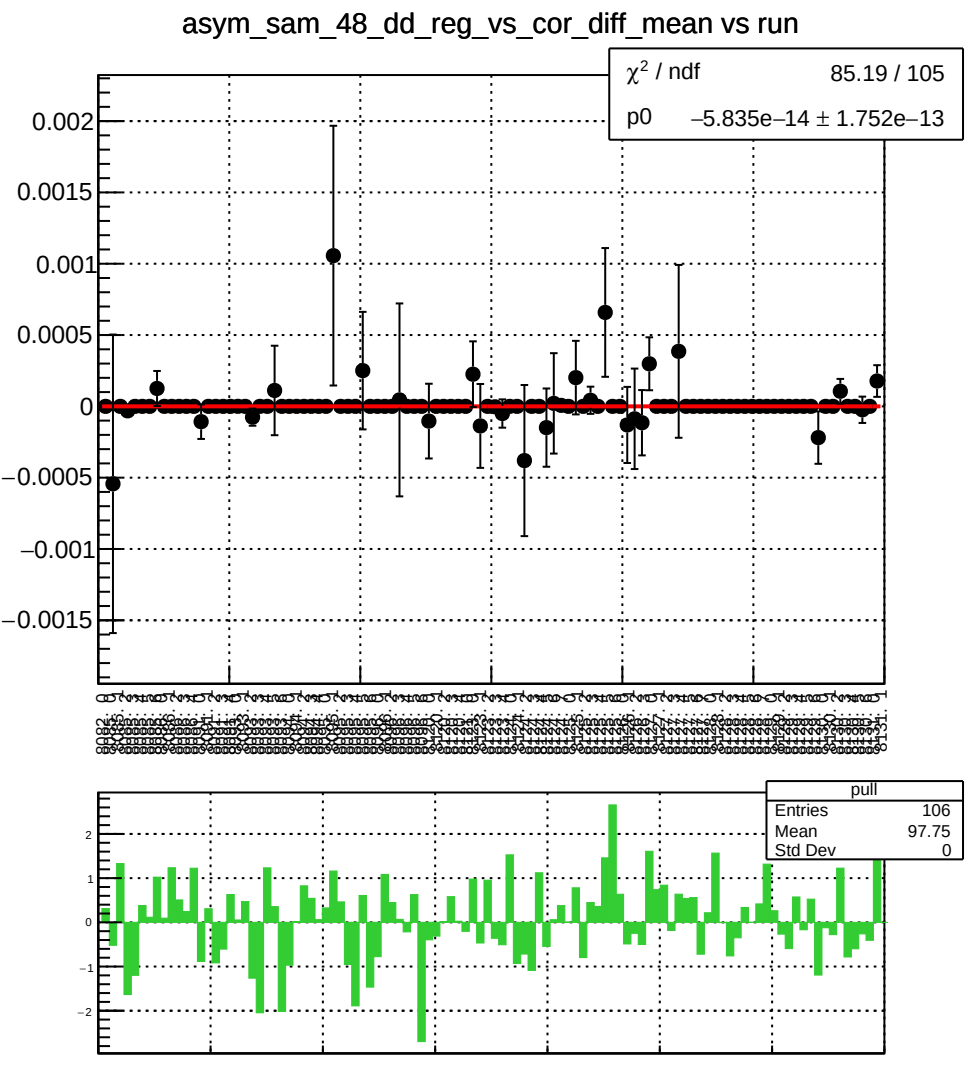

pull1D
Entries 106
Mean −0.009446
Std Dev 0.8118
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

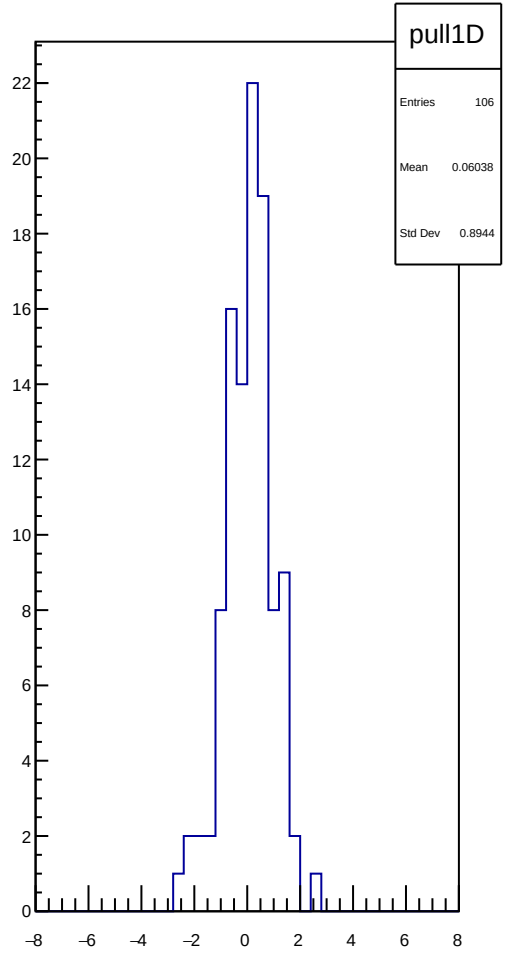

asym_sam_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 3057 / 105
p0 1812 ± 1.275
2500
2400
2300
2200
2100
2000
1900
1800
1700

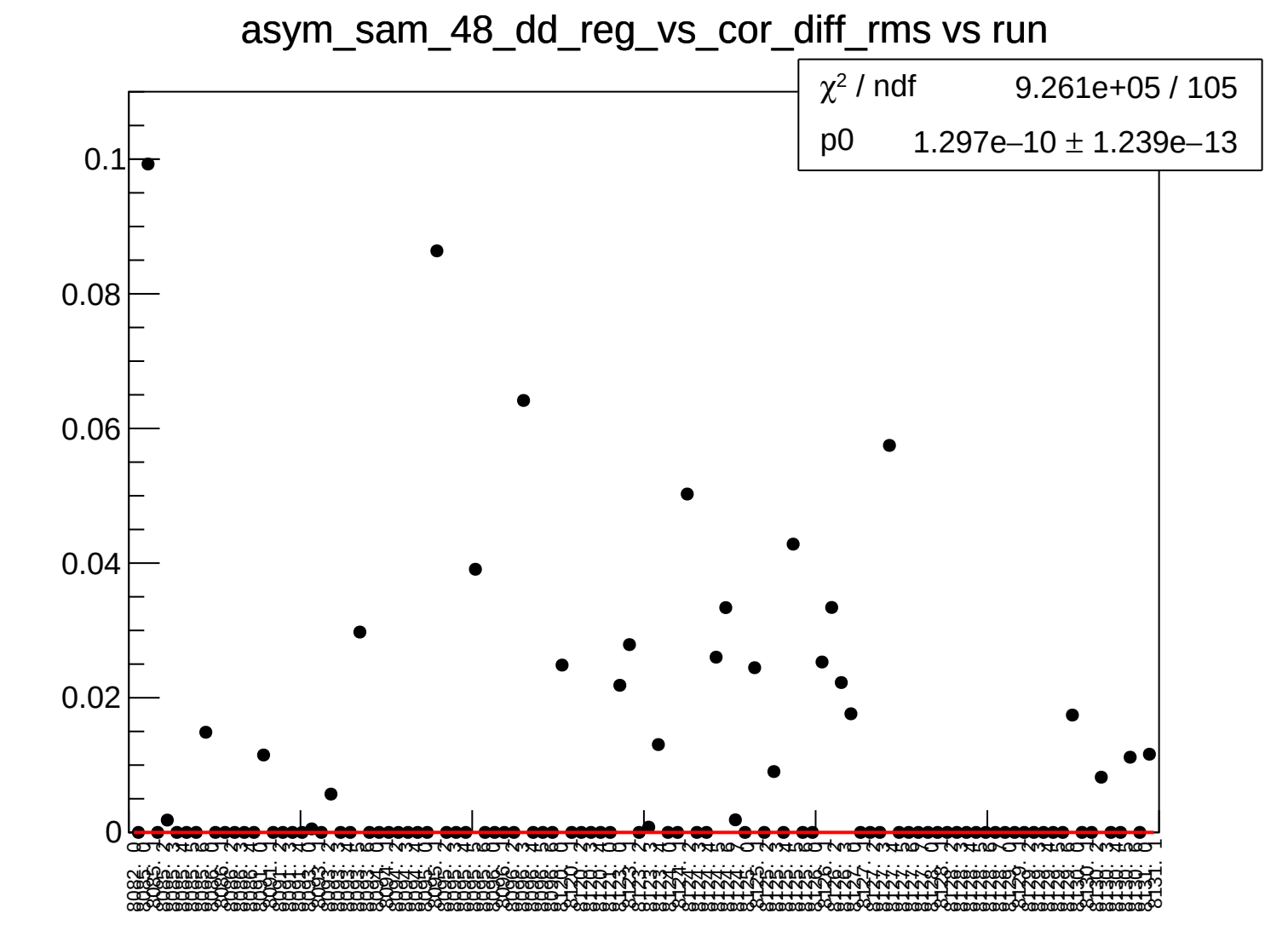

asym_sam_48_dd_mean vs run
χ² / ndf 69.93 / 105
p0 2517 ± 1779
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean 52.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

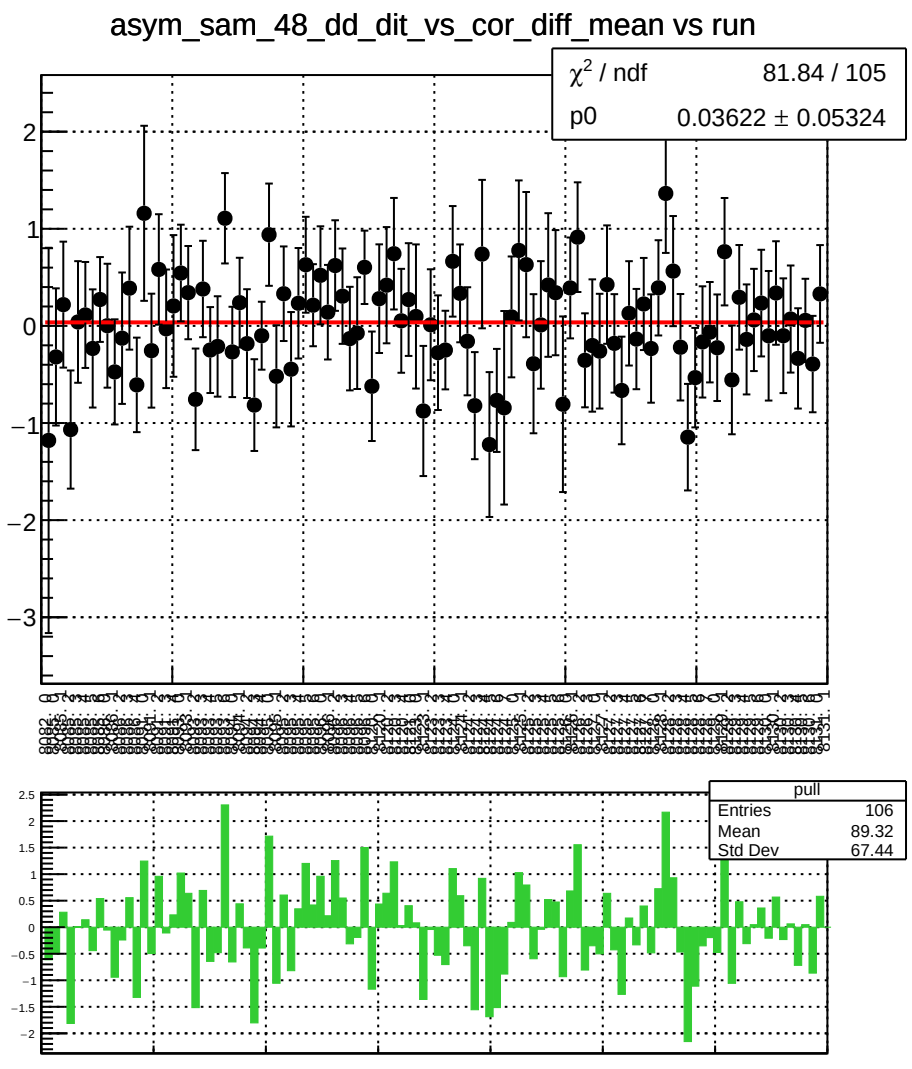

pull1D
Entries 106
Mean 0.00921
Std Dev 0.8122
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

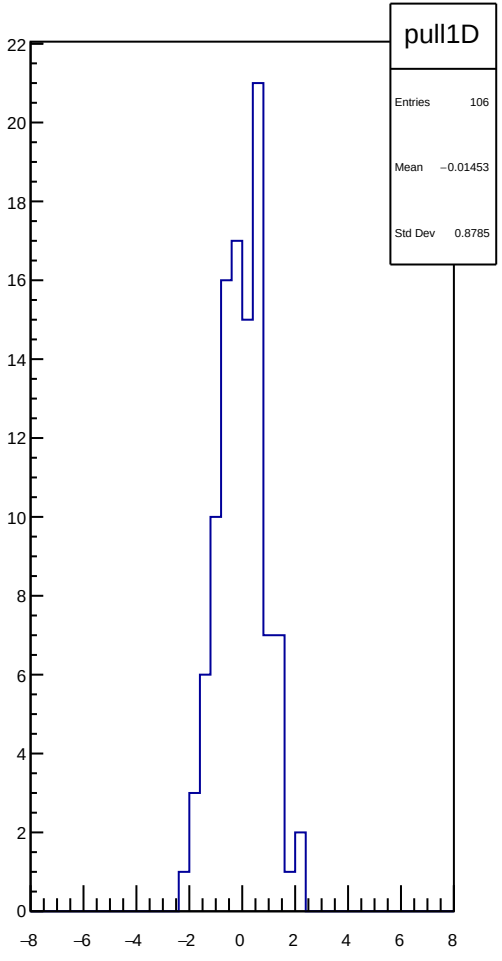

asym_sam_48_dd_rms vs run
$\chi^2$ / ndf 3699 / 105
p0 1787 ± 1.258
2600
2400
2200
2000
1800
1600

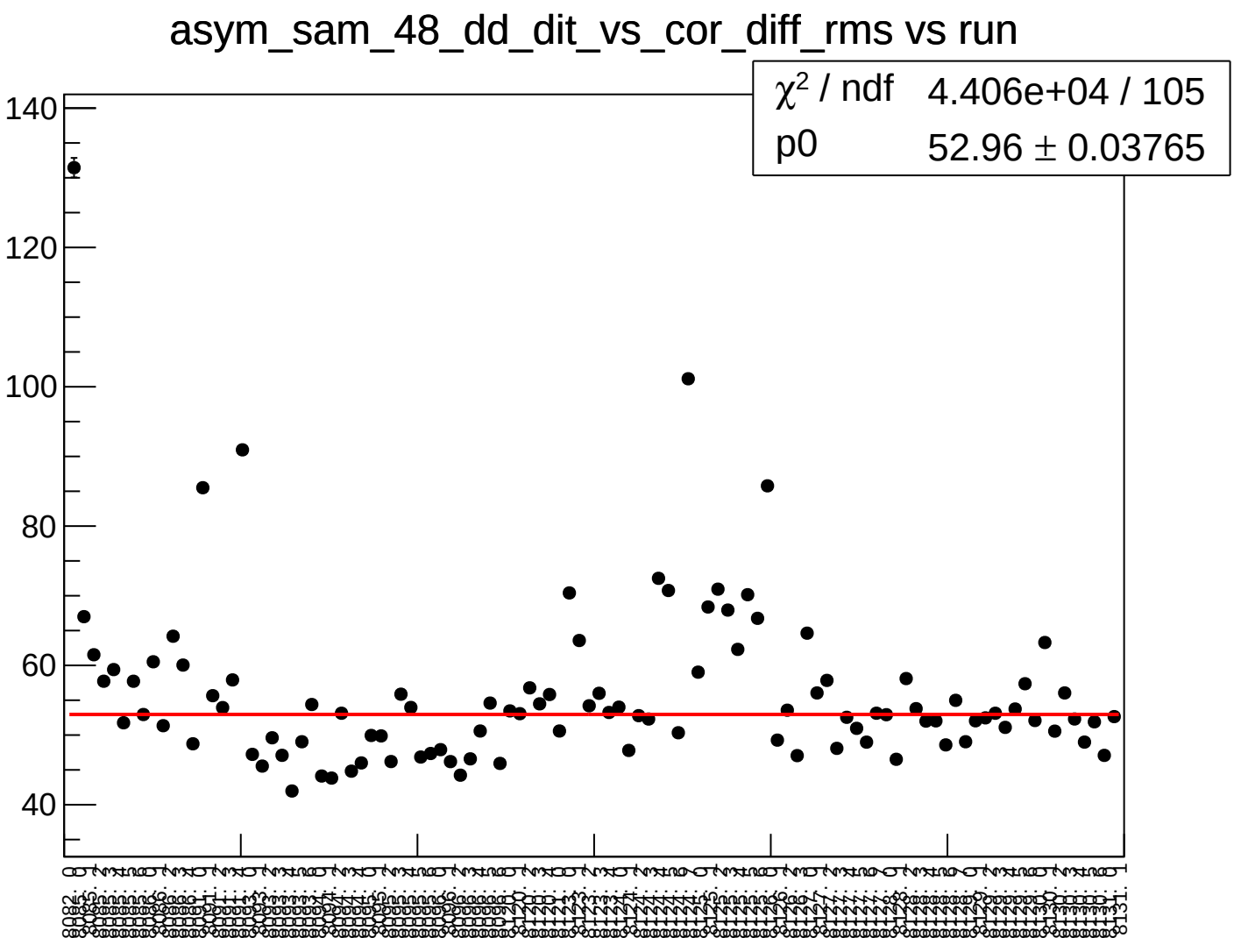

asym_sam_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 85.19 / 105
p0 −5.835e−14 ± 1.752e−13
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 106
Mean 97.75
Std Dev 0
2
1
0
−1
−2

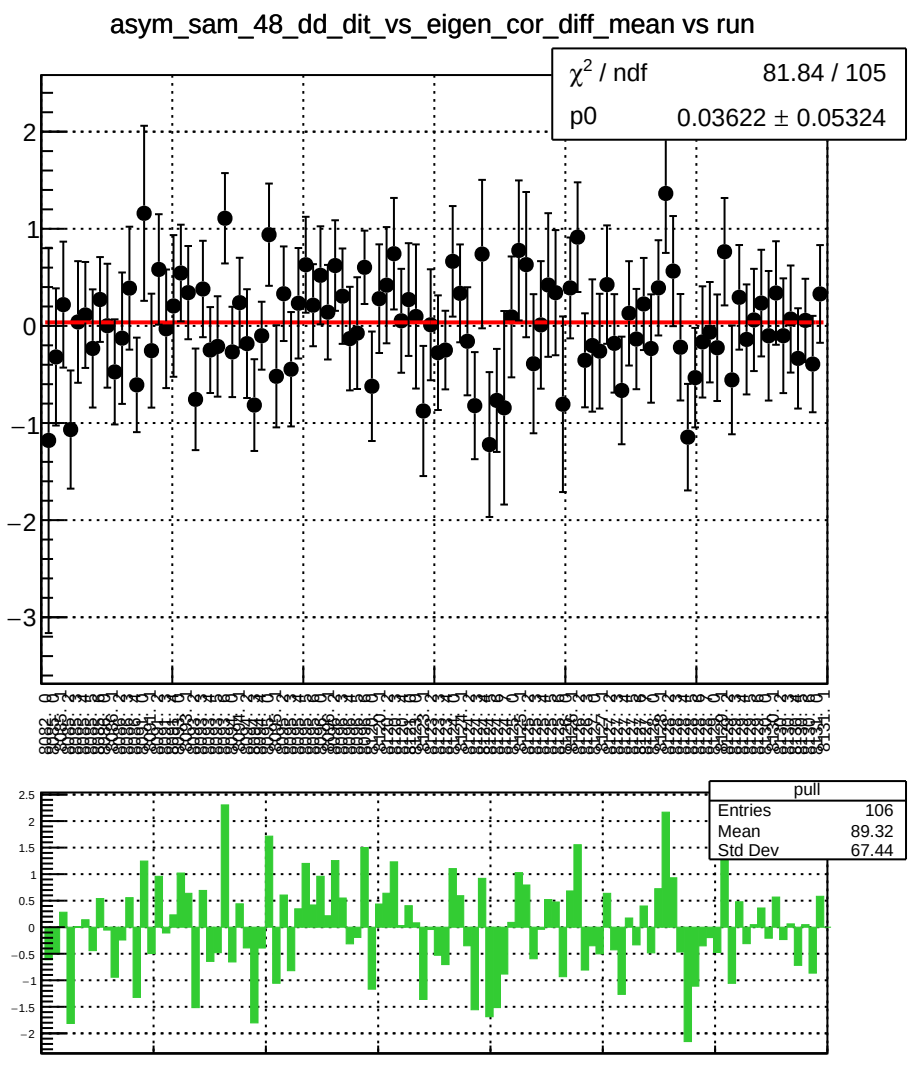

pull1D
Entries 106
Mean 0.06038
Std Dev 0.8944
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

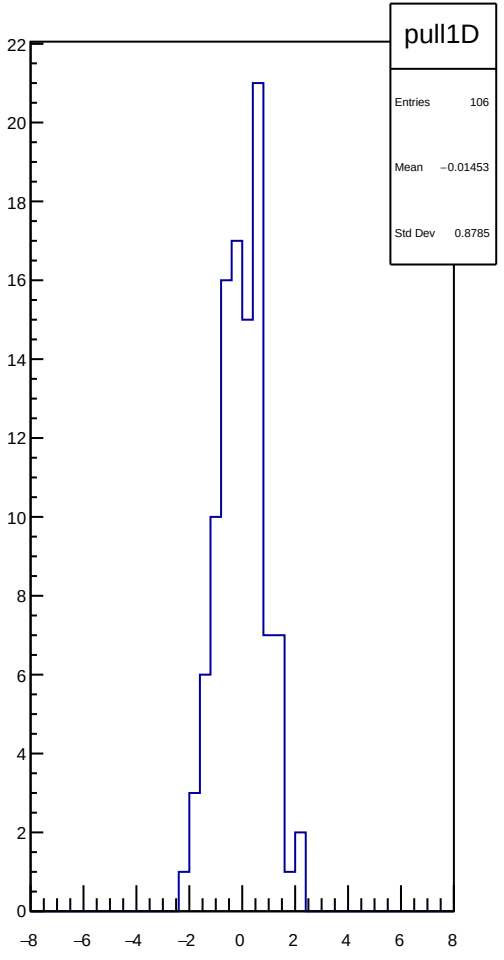

asym_sam_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.261e+05 / 105
p0 1.297e−10 ± 1.239e−13
0.1
0.08
0.06
0.04
0.02
0

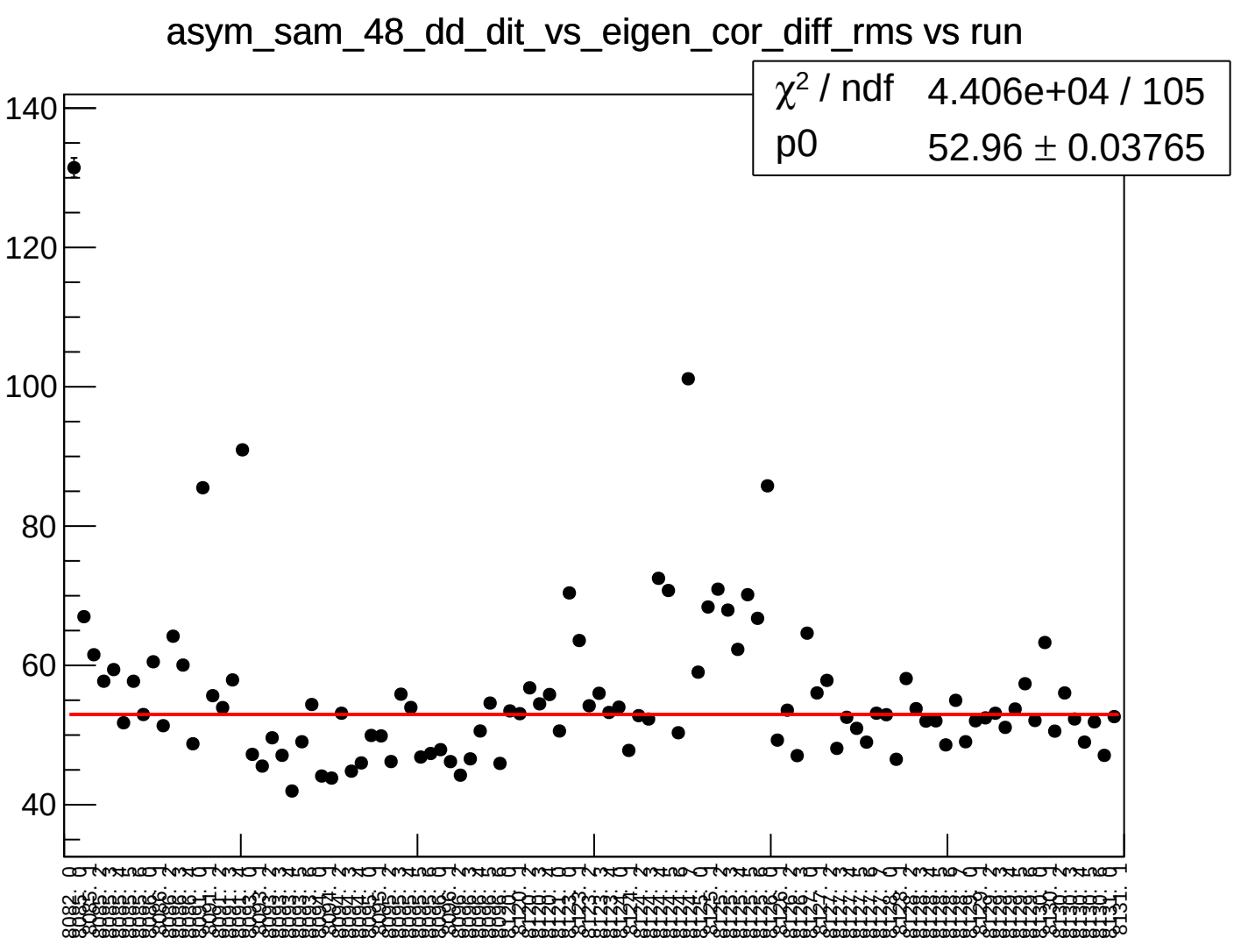

asym_sam_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 81.84 / 105
p0 0.03622 ± 0.05324
pull
Entries 106
Mean 89.32
Std Dev 67.44

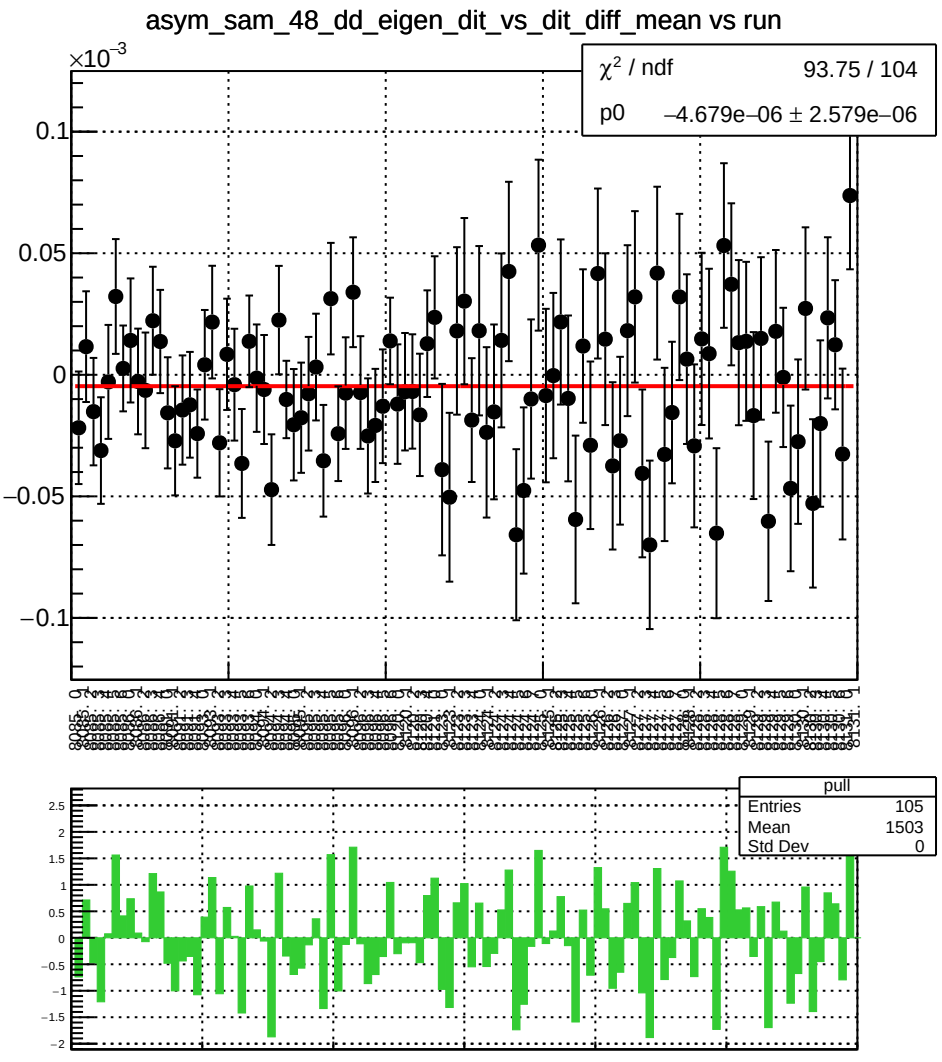

pull1D
Entries 106
Mean −0.01453
Std Dev 0.8785

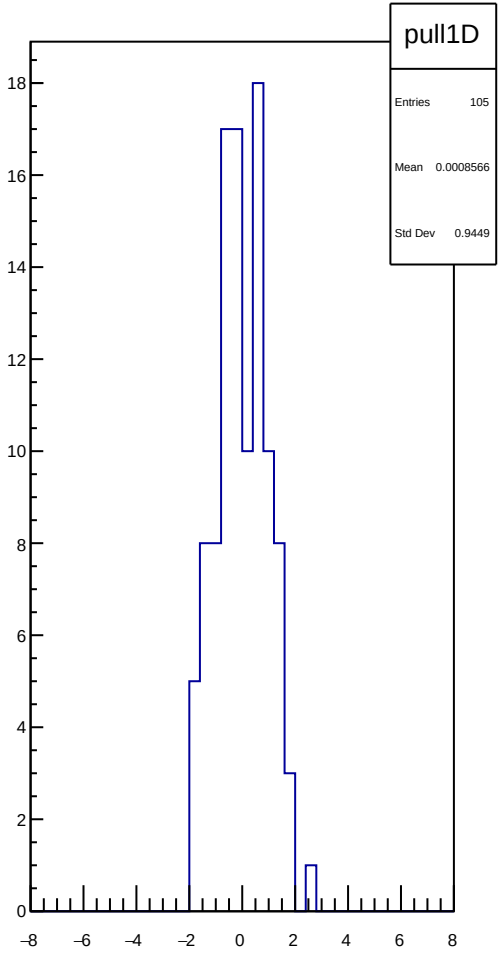

asym_sam_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.406e+04 / 105
p0 52.96 ± 0.03765
140
120
100
80
60
40

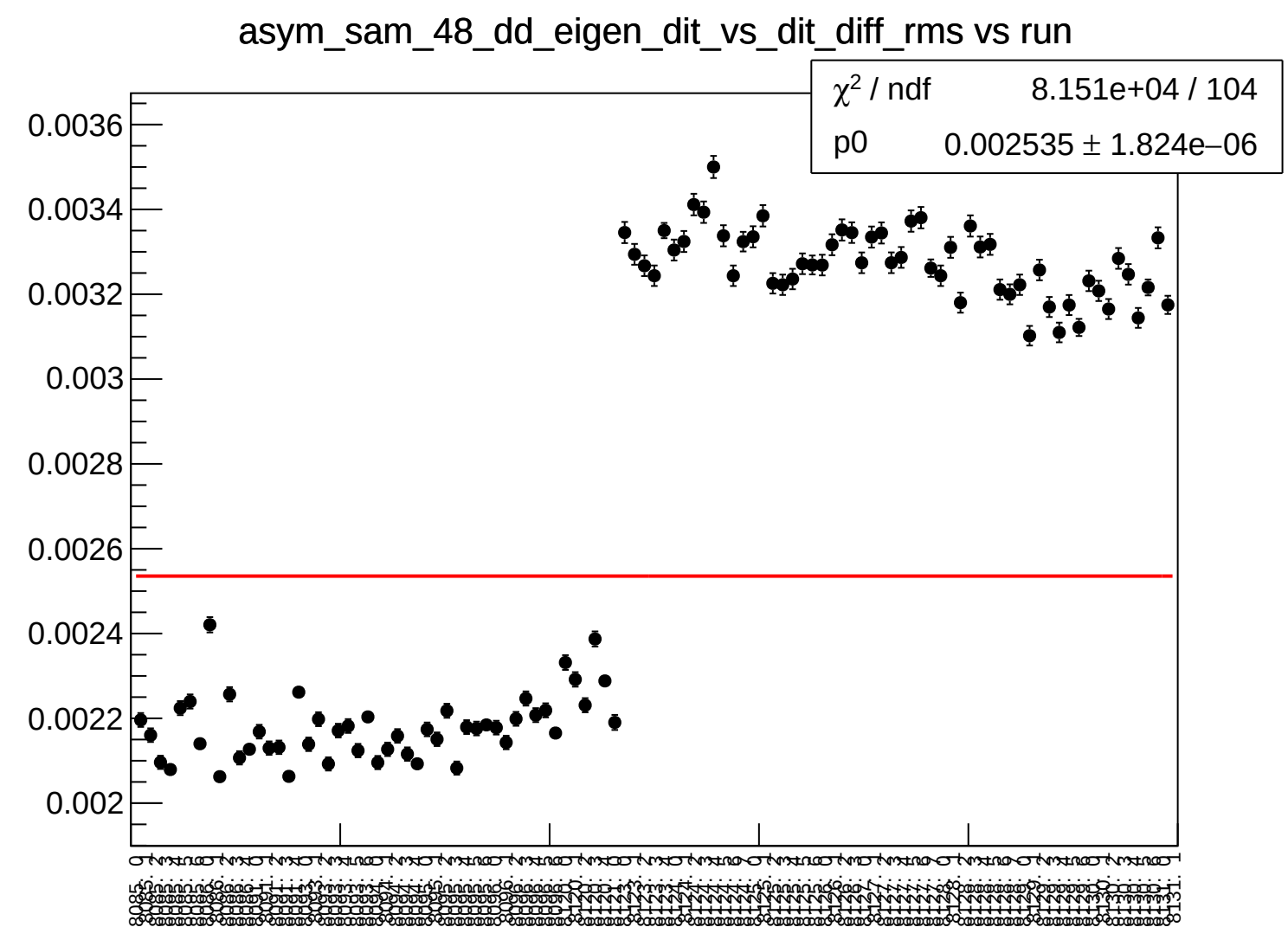

asym_sam_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.84 / 105
p0 0.03622 ± 0.05324
pull
Entries 106
Mean 89.32
Std Dev 67.44

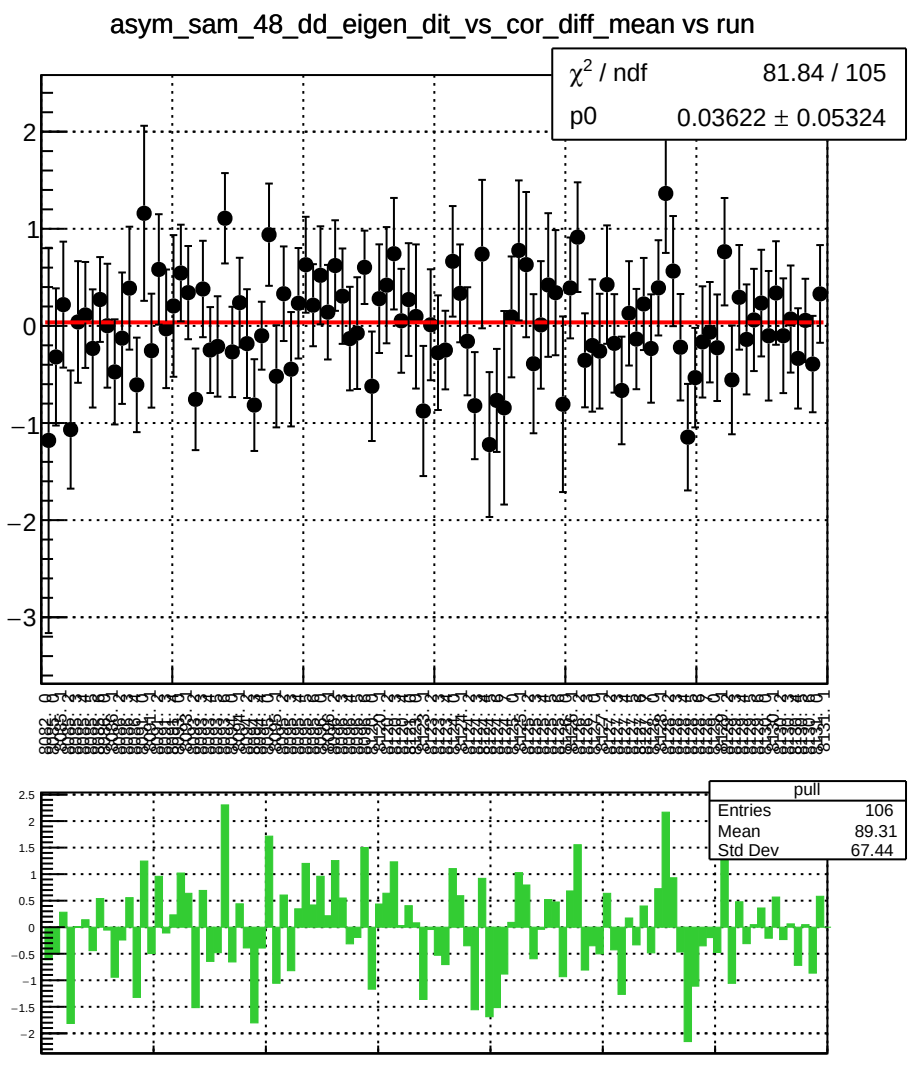

pull1D
Entries 106
Mean −0.01453
Std Dev 0.8785

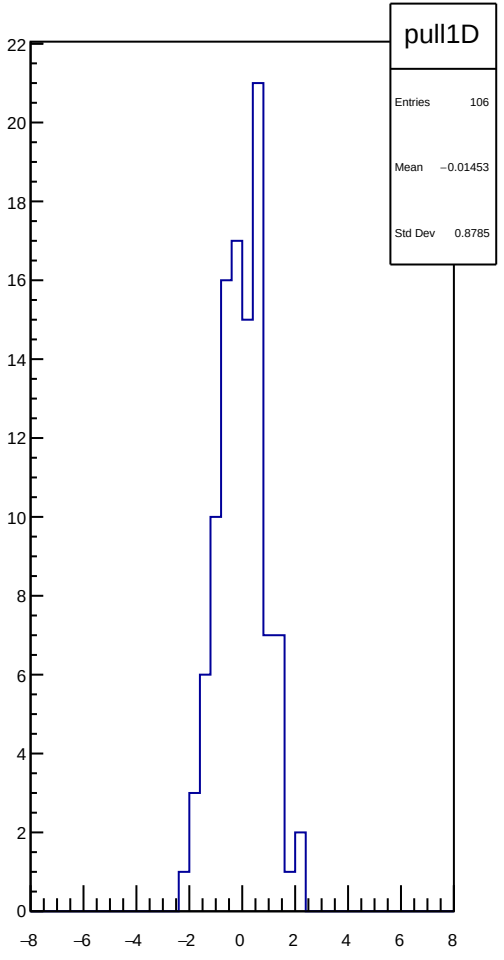

asym_sam_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.406e+04 / 105
p0 52.96 ± 0.03765
140
120
100
80
60
40

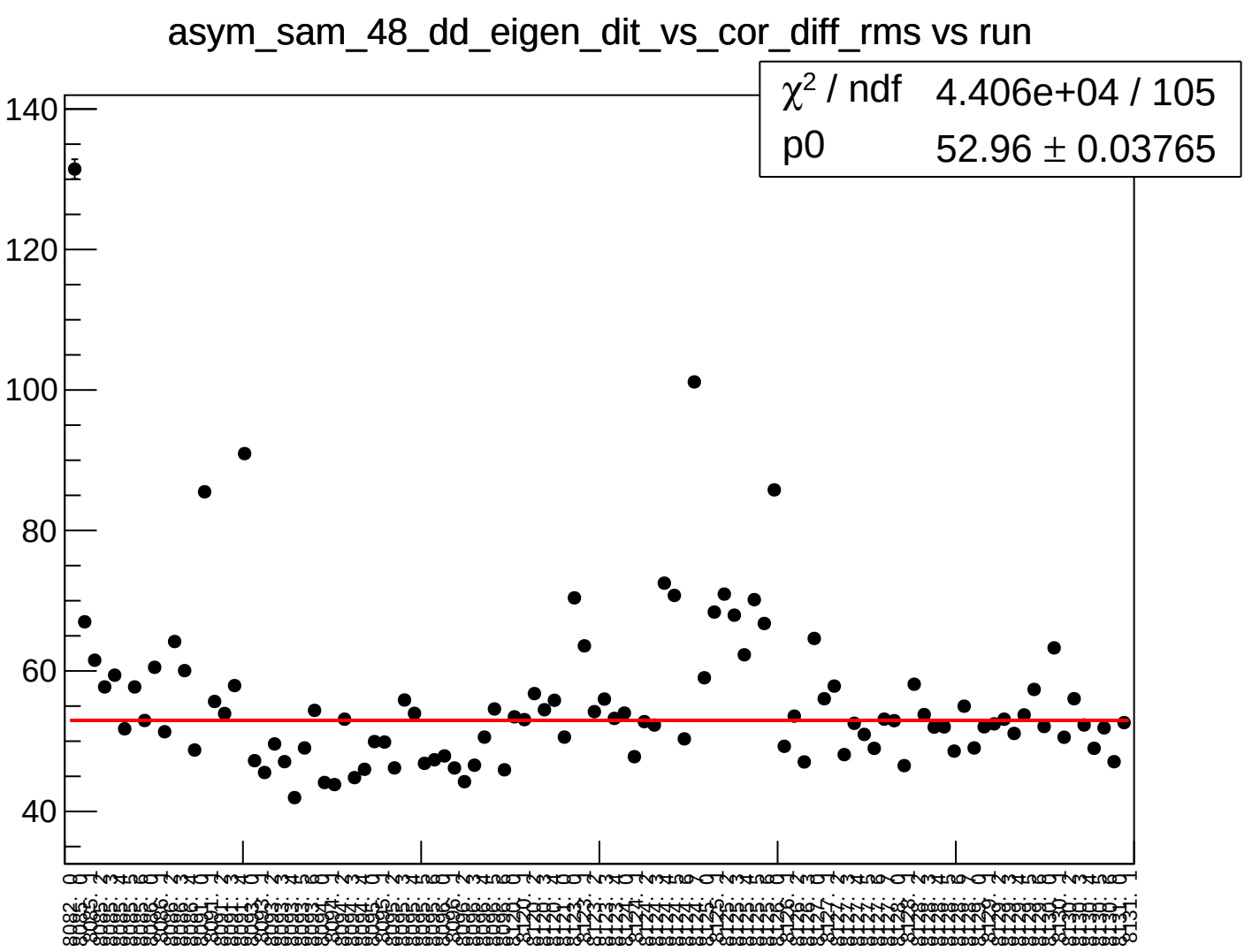

asym_sam_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 93.75 / 104
p0 −4.679e−06 ± 2.579e−06
pull
Entries 105
Mean 1503
Std Dev 0

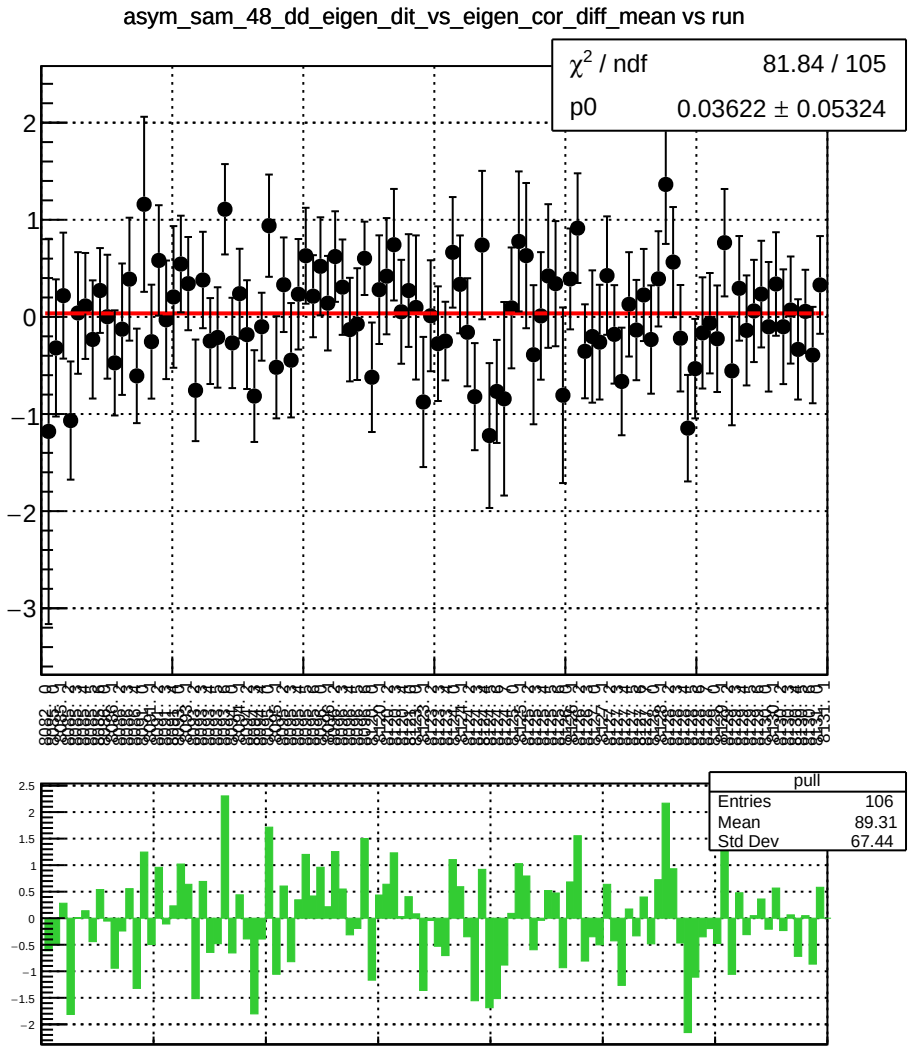

pull1D
Entries 105
Mean 0.0008566
Std Dev 0.9449

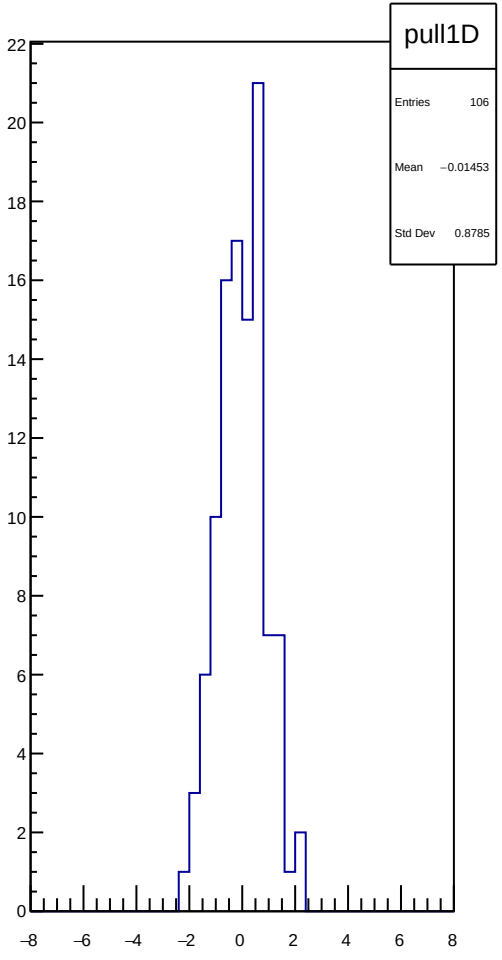

asym_sam_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.151e+04 / 104
p0 0.002535 ± 1.824e−06
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002

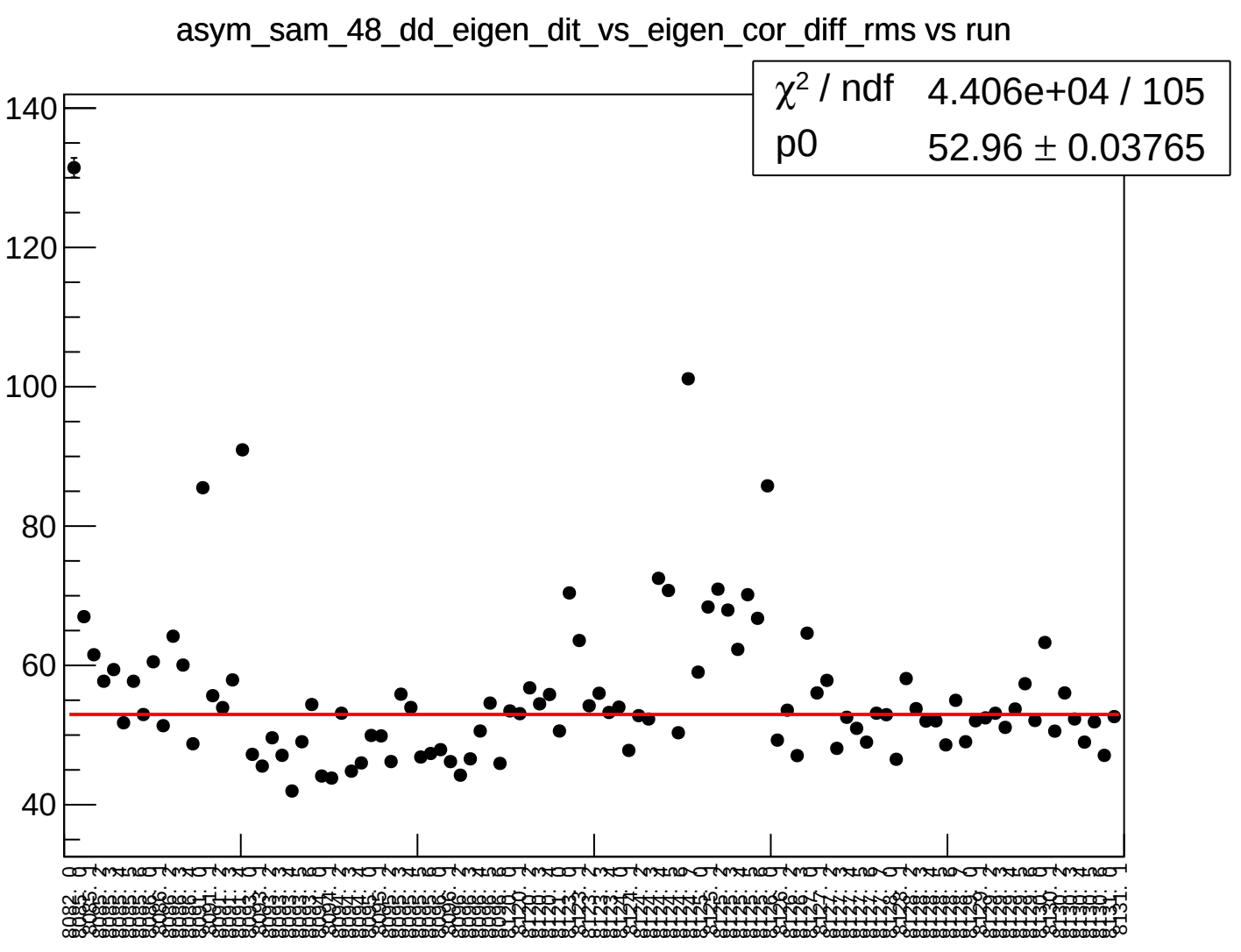

asym_sam_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.84 / 105
p0 0.03622 ± 0.05324
pull
Entries 106
Mean 89.31
Std Dev 67.44

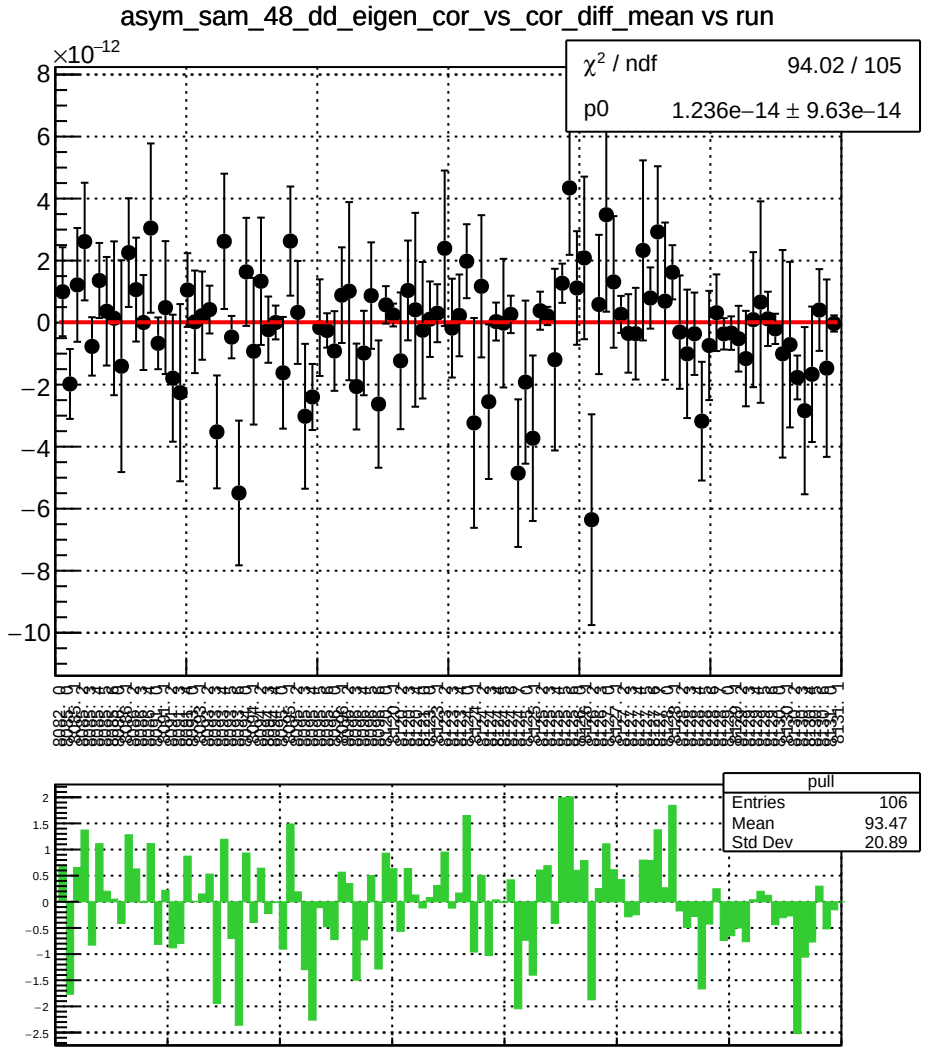

pull1D
Entries 106
Mean −0.01453
Std Dev 0.8785

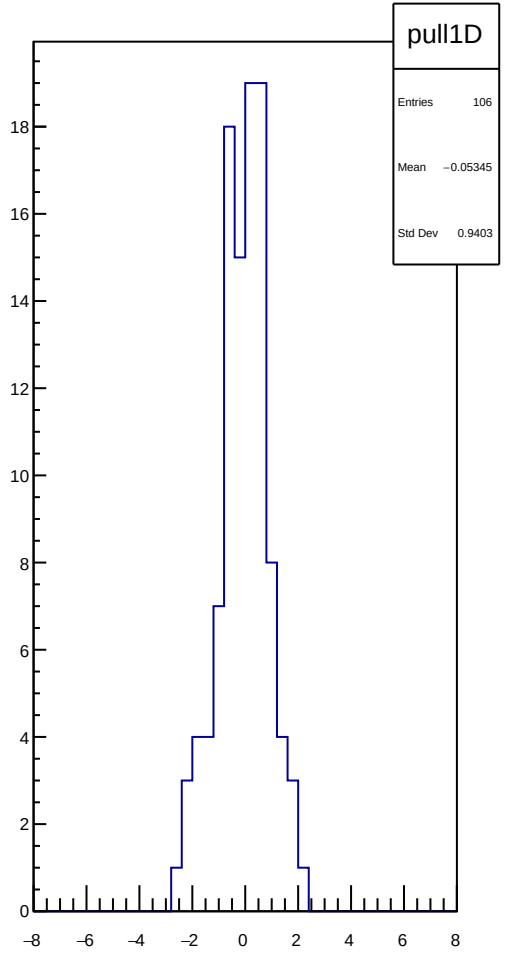

asym_sam_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.406e+04 / 105
p0 52.96 ± 0.03765
140
120
100
80
60
40

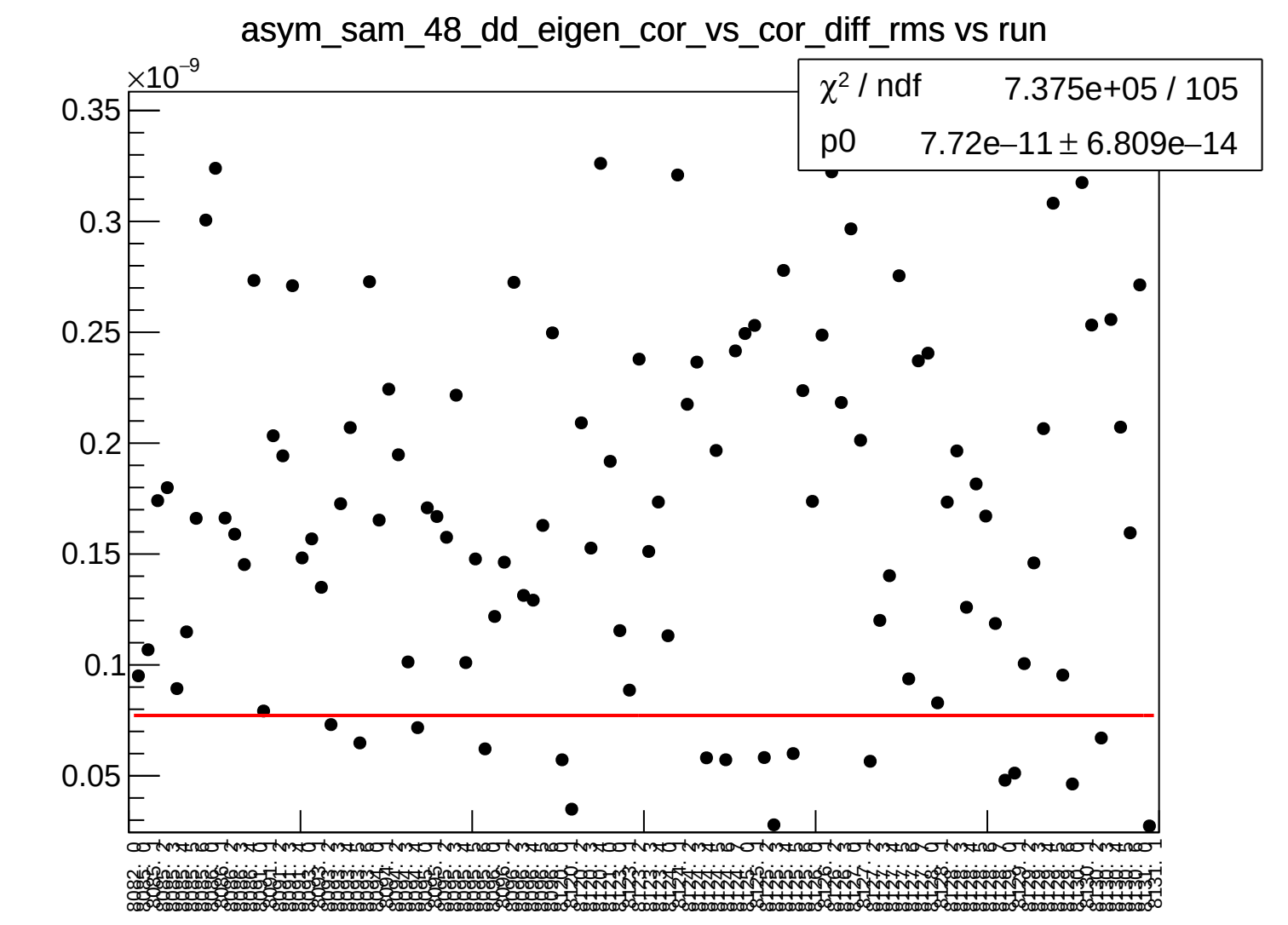

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.84 / 105
p0 0.03622 ± 0.05324
pull
Entries 106
Mean 89.31
Std Dev 67.44

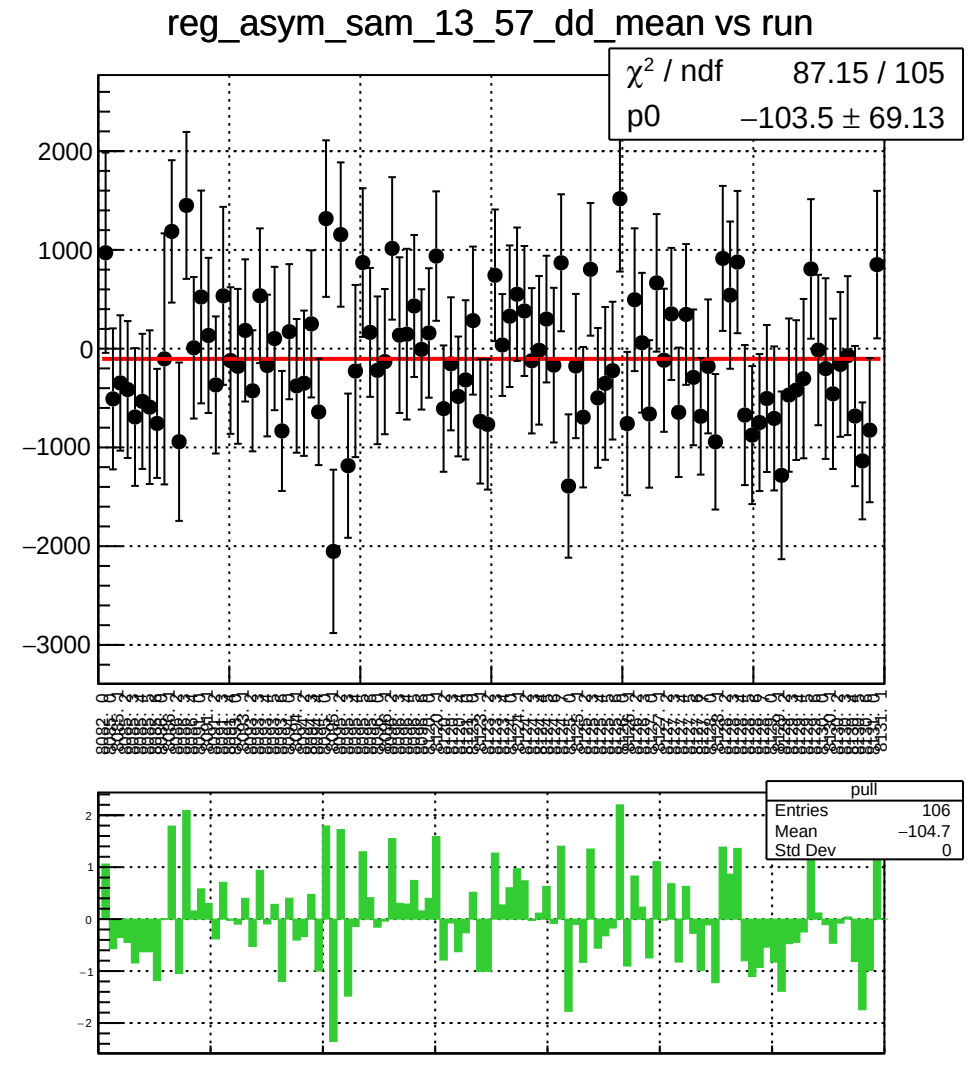

pull1D
Entries 106
Mean −0.01453
Std Dev 0.8785

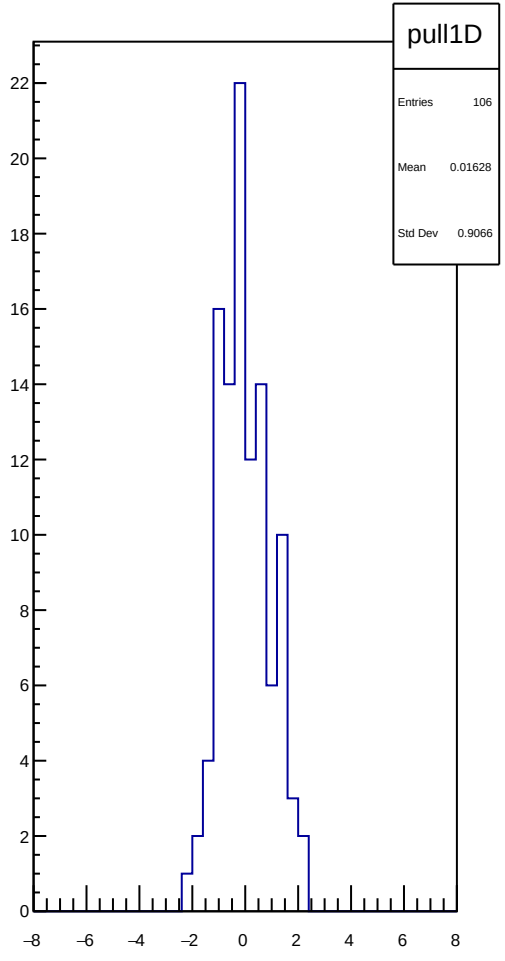

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.406e+04 / 105
p0 52.96 ± 0.03765
140
120
100
80
60
40

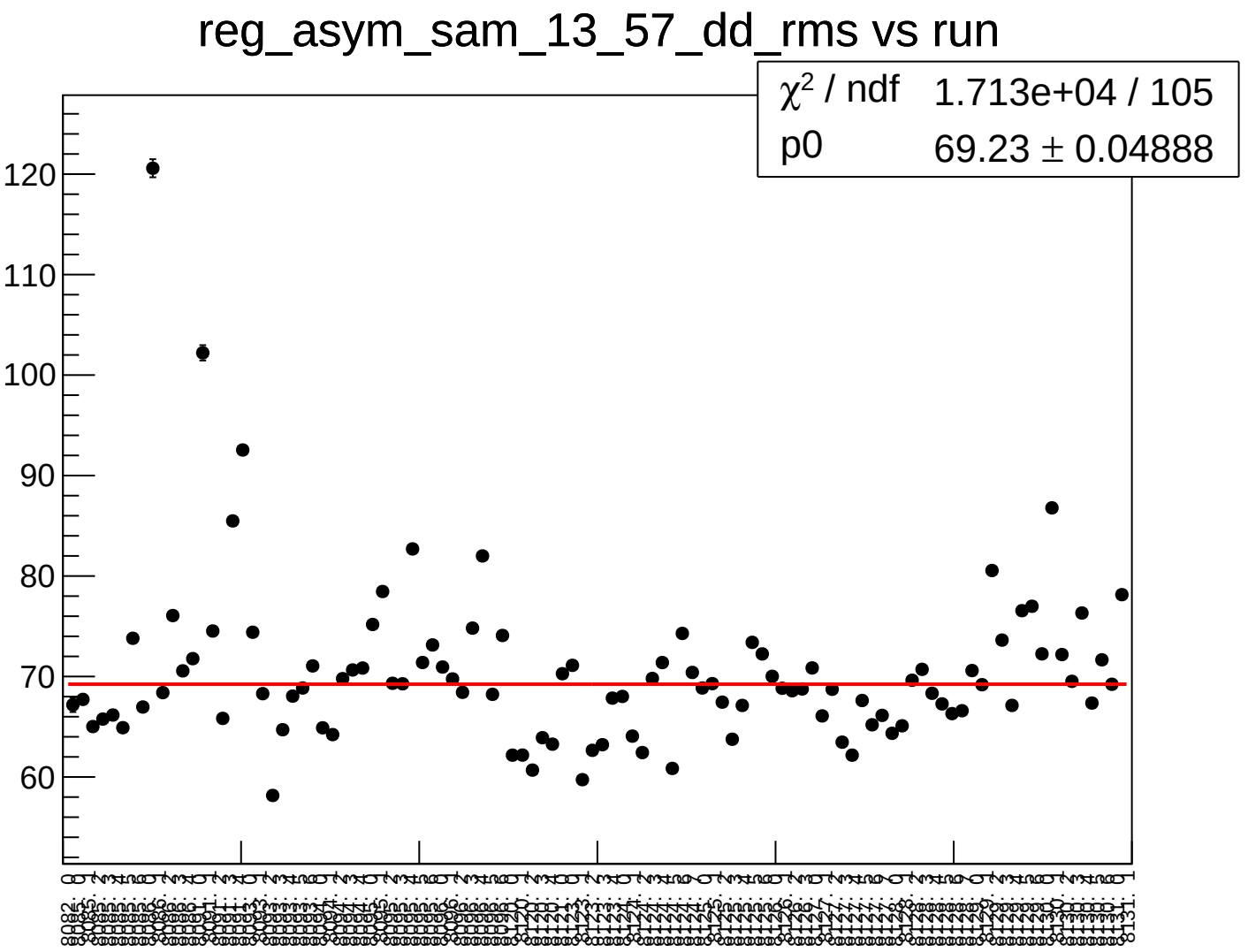

asym_sam_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.02 / 105
p0 1.236e−14 ± 9.63e−14
pull
Entries 106
Mean 93.47
Std Dev 20.89

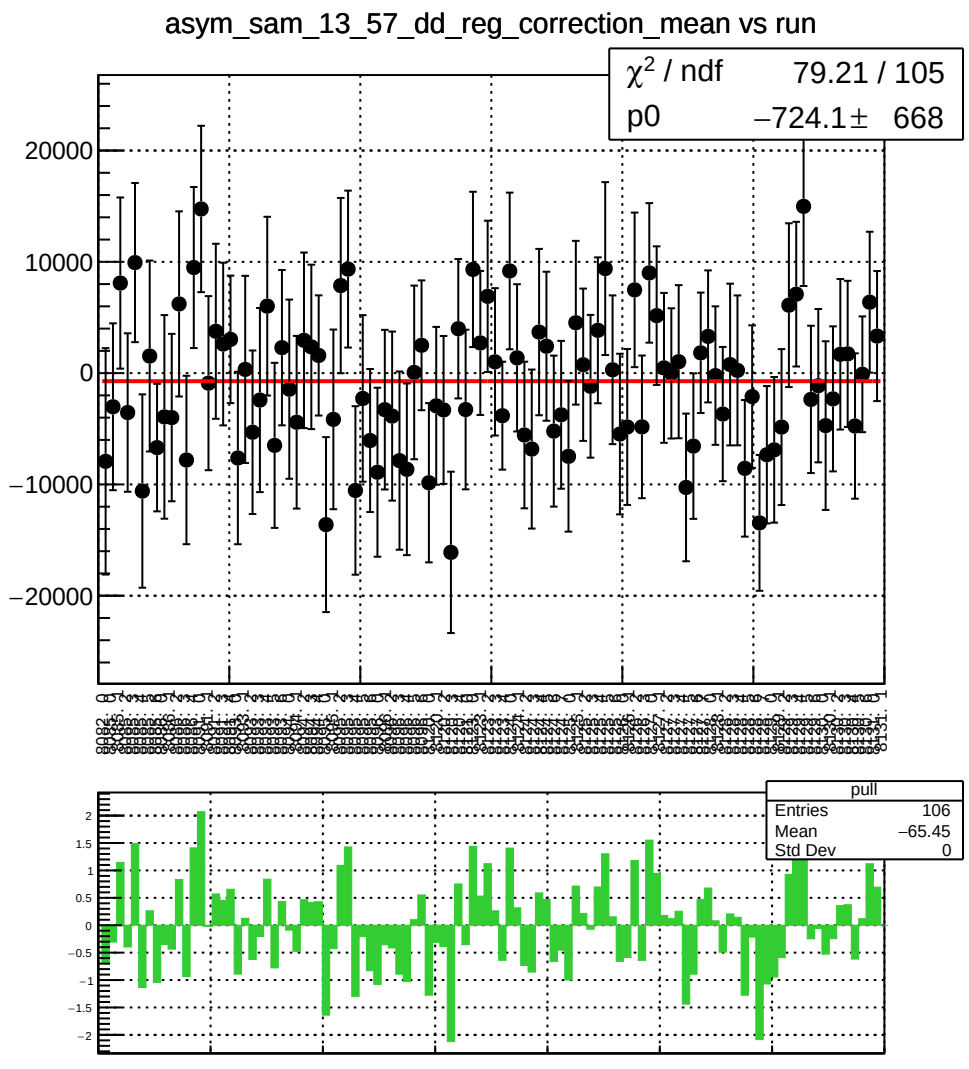

pull1D
Entries 106
Mean −0.05345
Std Dev 0.9403

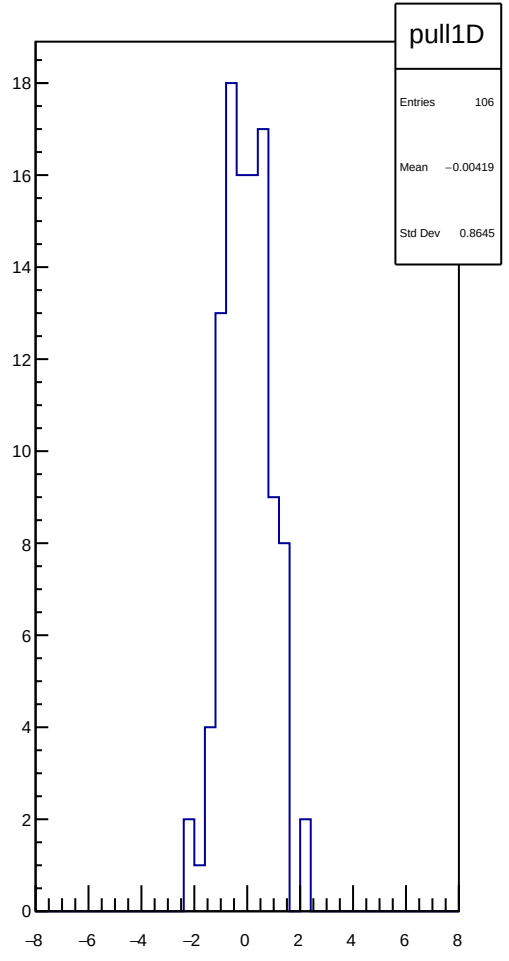

asym_sam_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.375e+05 / 105
p0 7.72e−11 ± 6.809e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

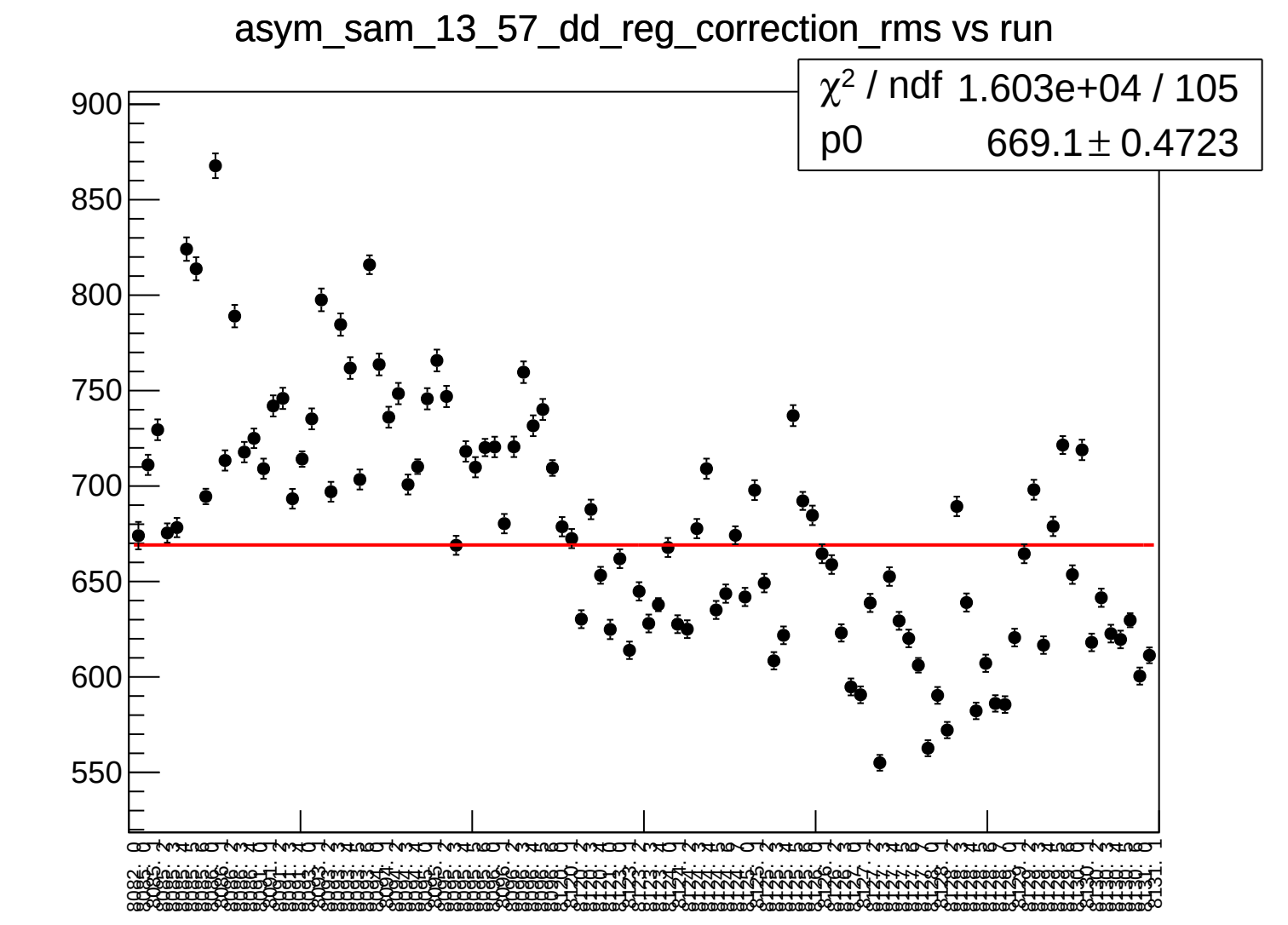

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 87.15 / 105
p0 −103.5 ± 69.13
2000
1000
0
−1000
−2000
−3000
pull
Entries 106
Mean −104.7
Std Dev 0
2
1
0
−1
−2

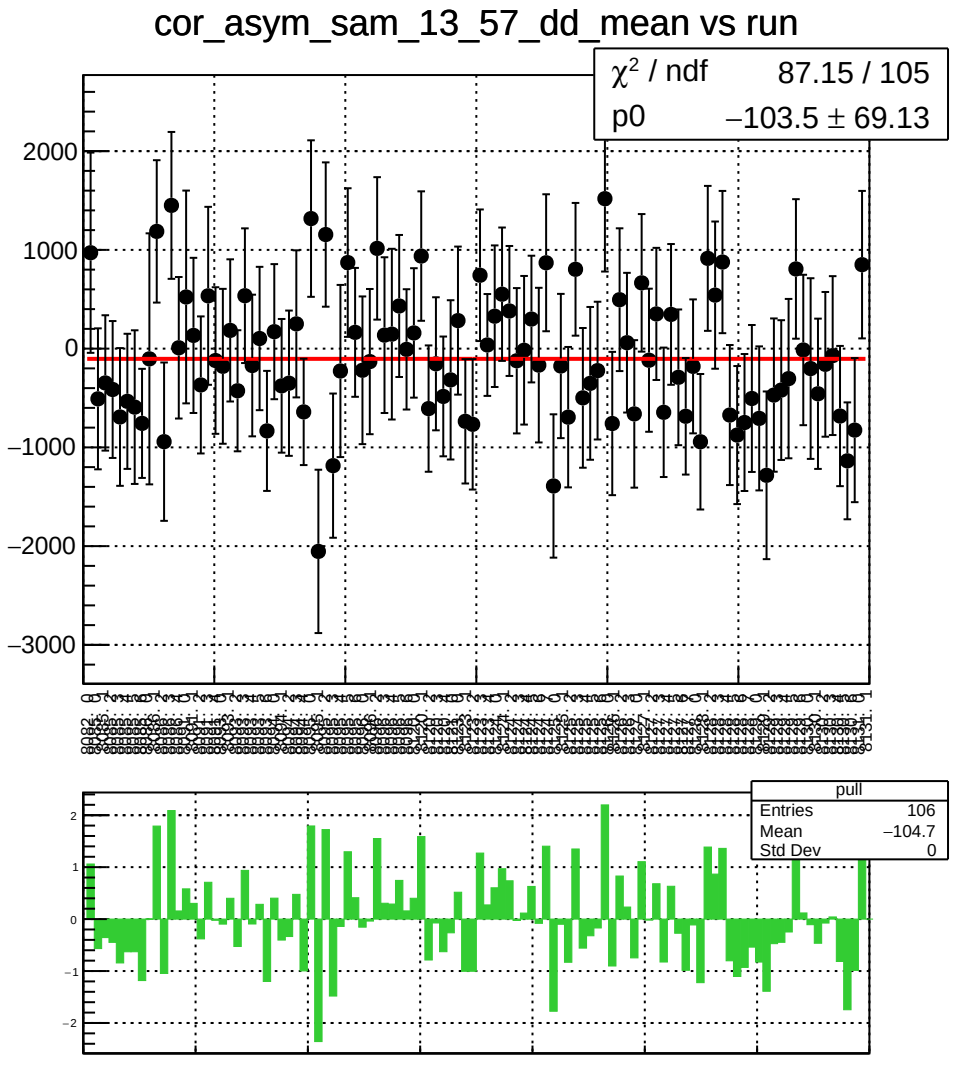

pull1D
Entries 106
Mean 0.01628
Std Dev 0.9066
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

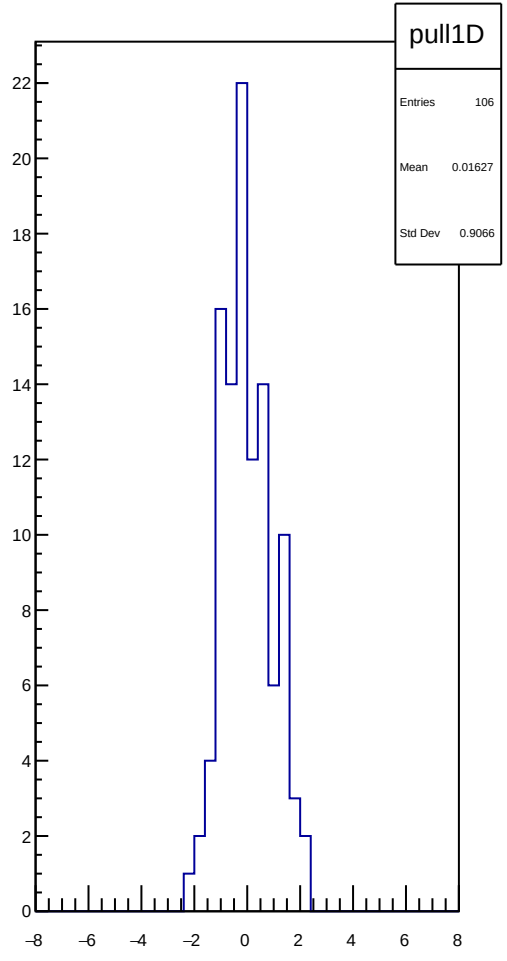

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 1.713e+04 / 105
p0 69.23 ± 0.04888
120
110
100
90
80
70
60

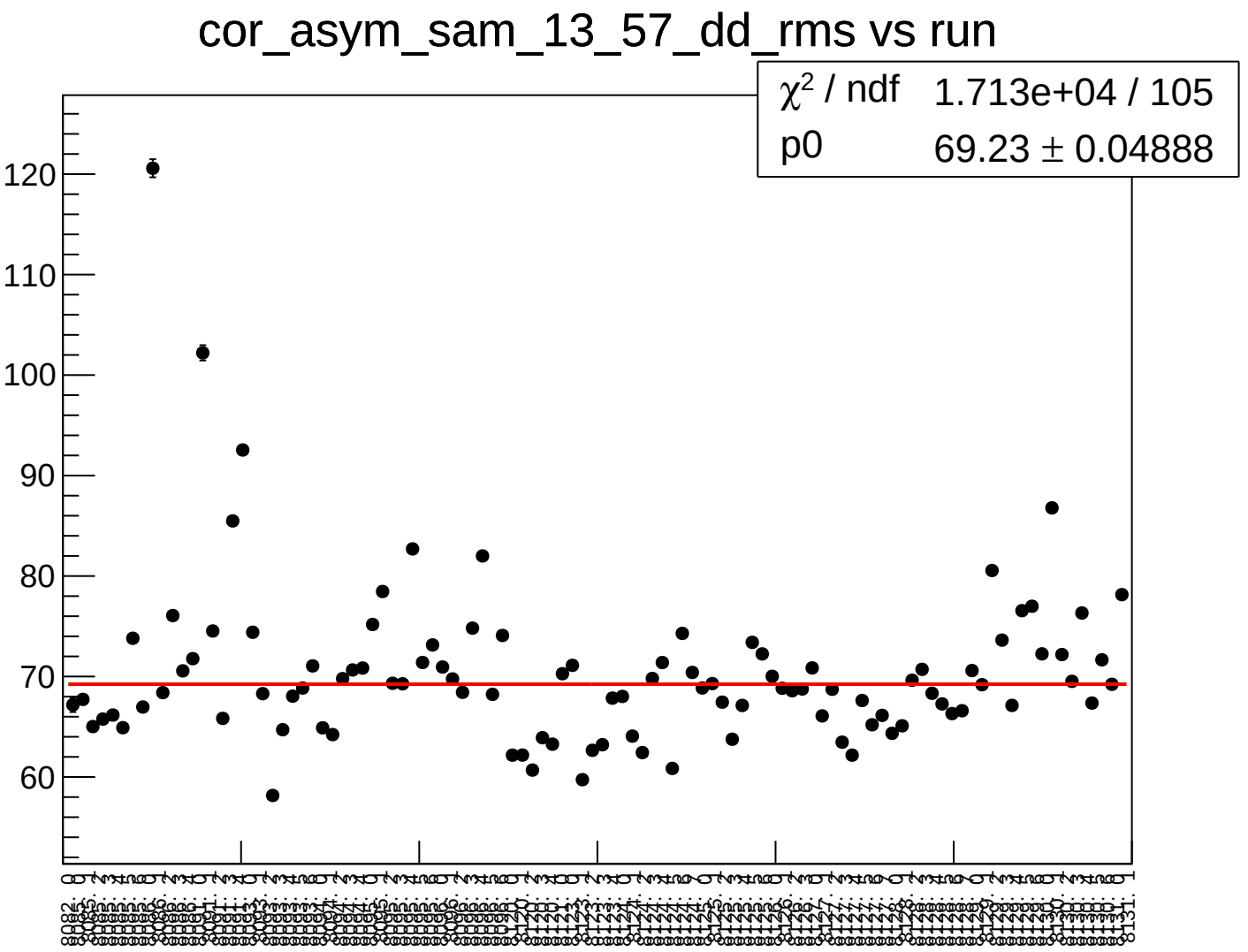

asym_sam_13_57_dd_reg_correction_mean vs run
χ² / ndf 79.21 / 105
p0 −724.1± 668
20000
10000
0
−10000
−20000
pull
Entries 106
Mean −65.45
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

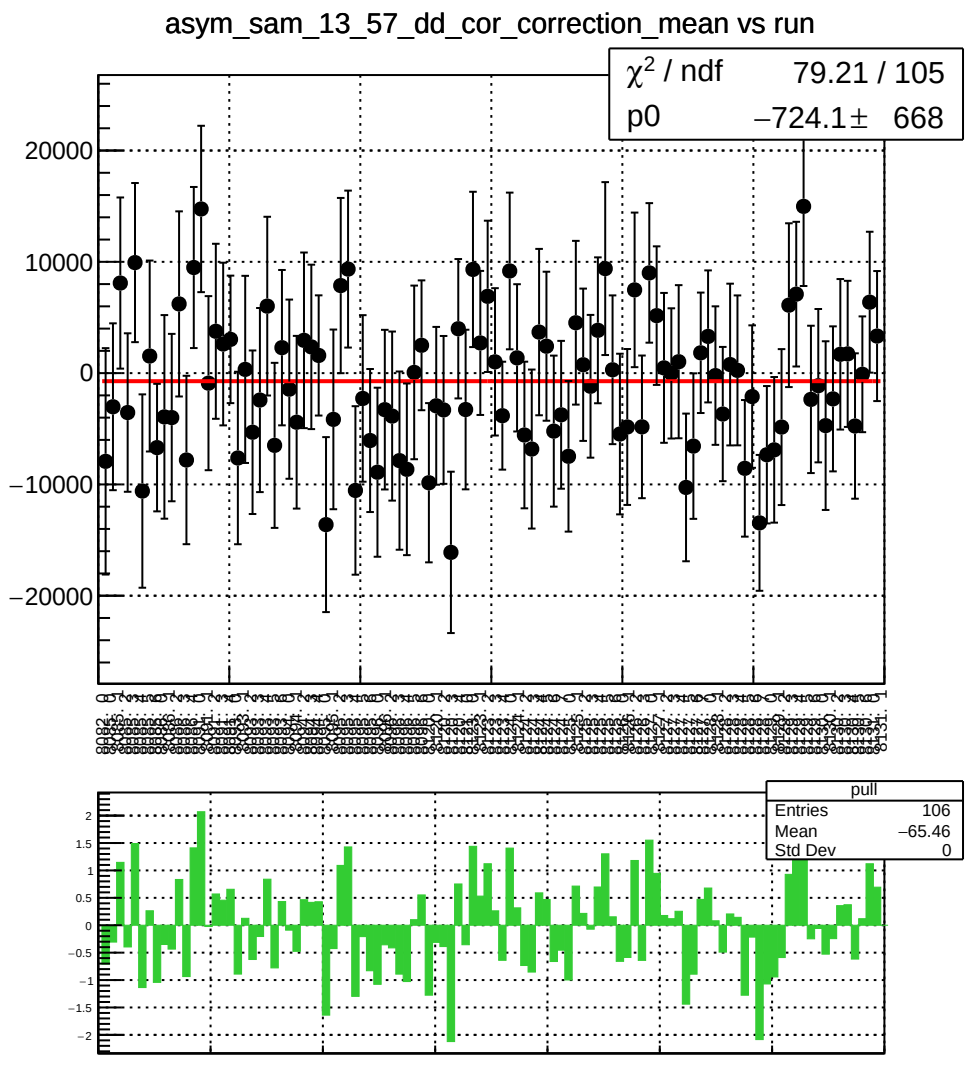

pull1D
Entries 106
Mean −0.00419
Std Dev 0.8645
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

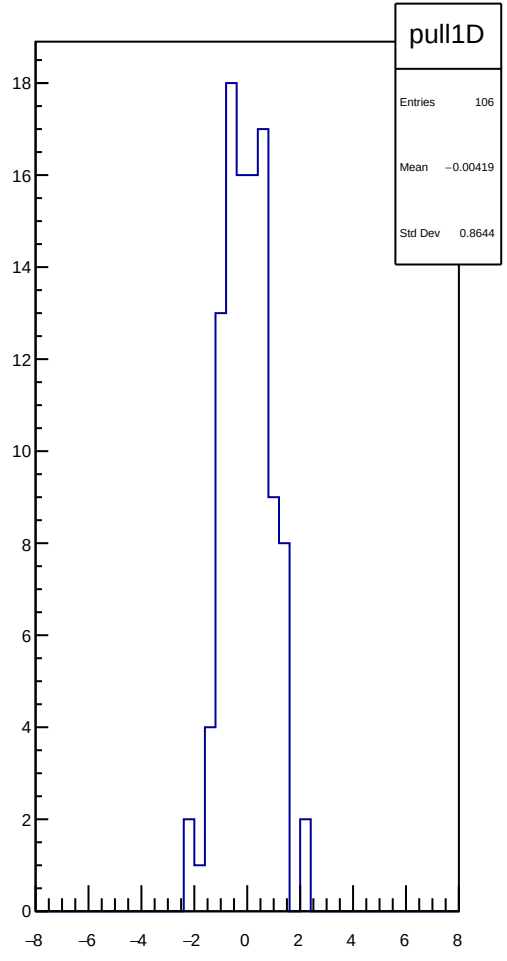

asym_sam_13_57_dd_reg_correction_rms vs run
χ² / ndf 1.603e+04 / 105
p0 669.1 ± 0.4723
900
850
800
750
700
650
600
550

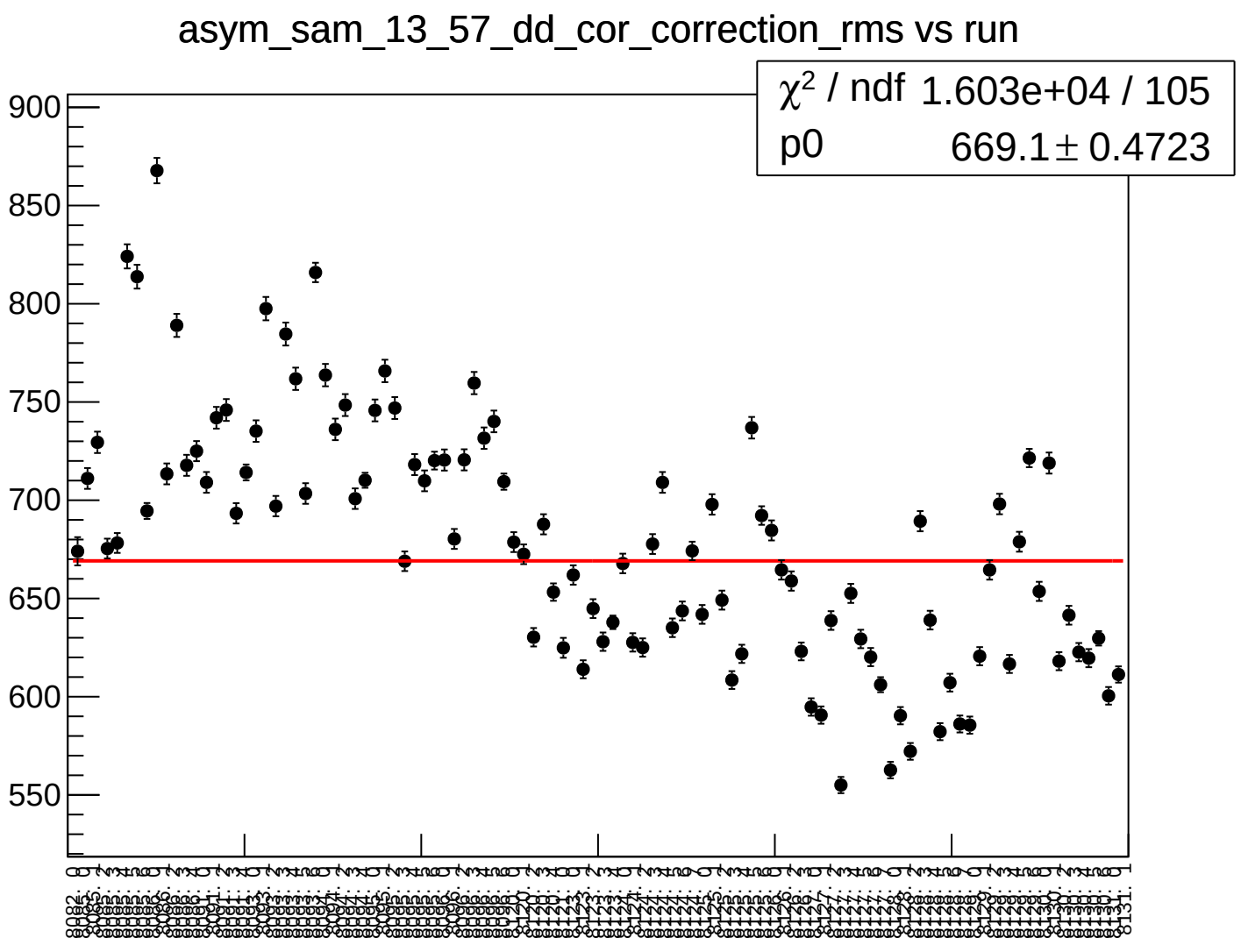

cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 87.15 / 105
p0 −103.5 ± 69.13
2000
1000
0
−1000
−2000
−3000
pull
Entries 106
Mean −104.7
Std Dev 0
2
1
0
−1
−2

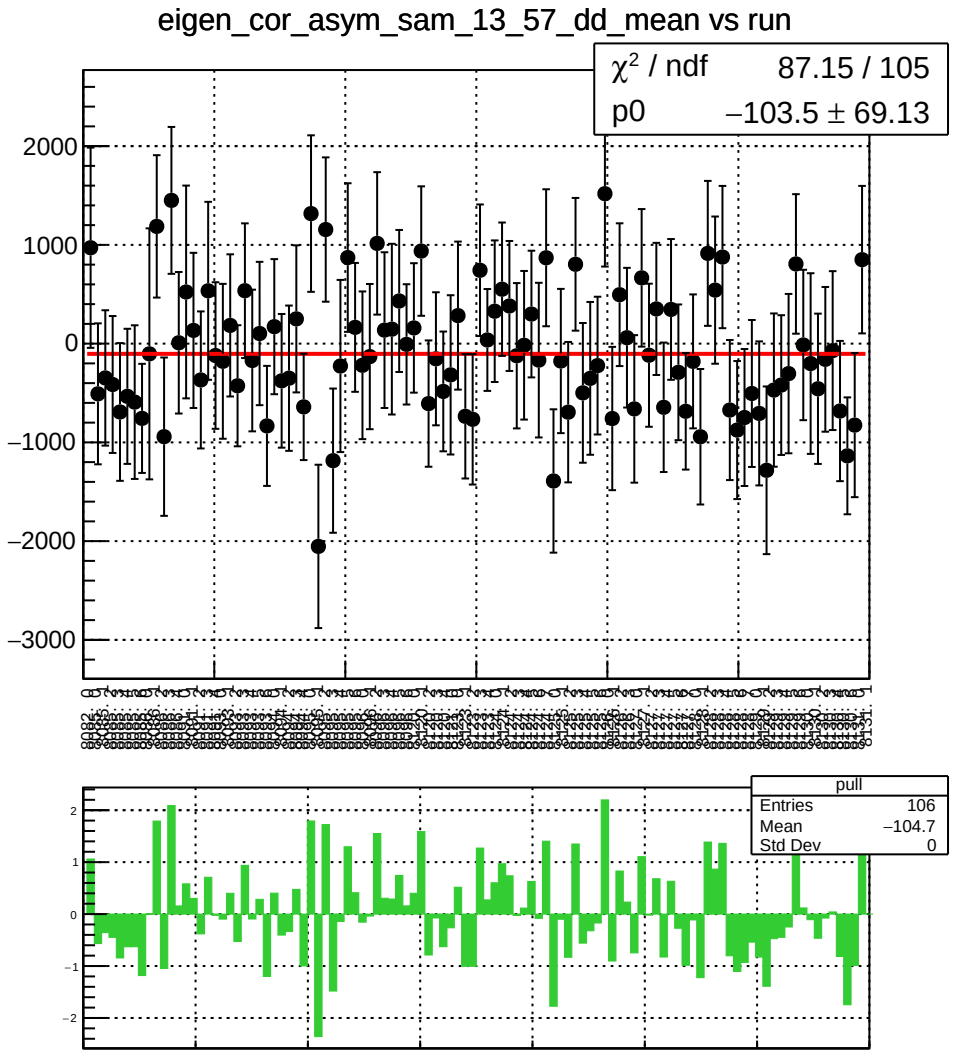

pull1D
Entries 106
Mean 0.01627
Std Dev 0.9066
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

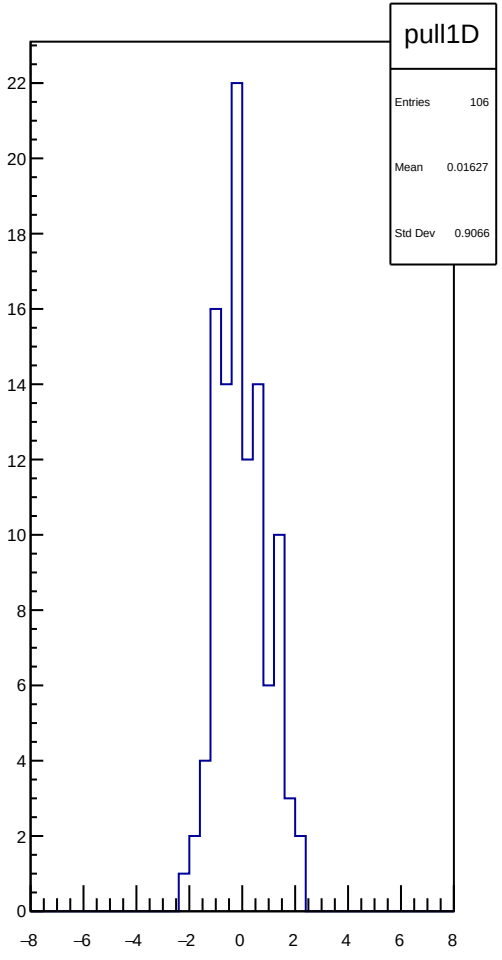

cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 1.713e+04 / 105
p0 69.23 ± 0.04888
120
110
100
90
80
70
60

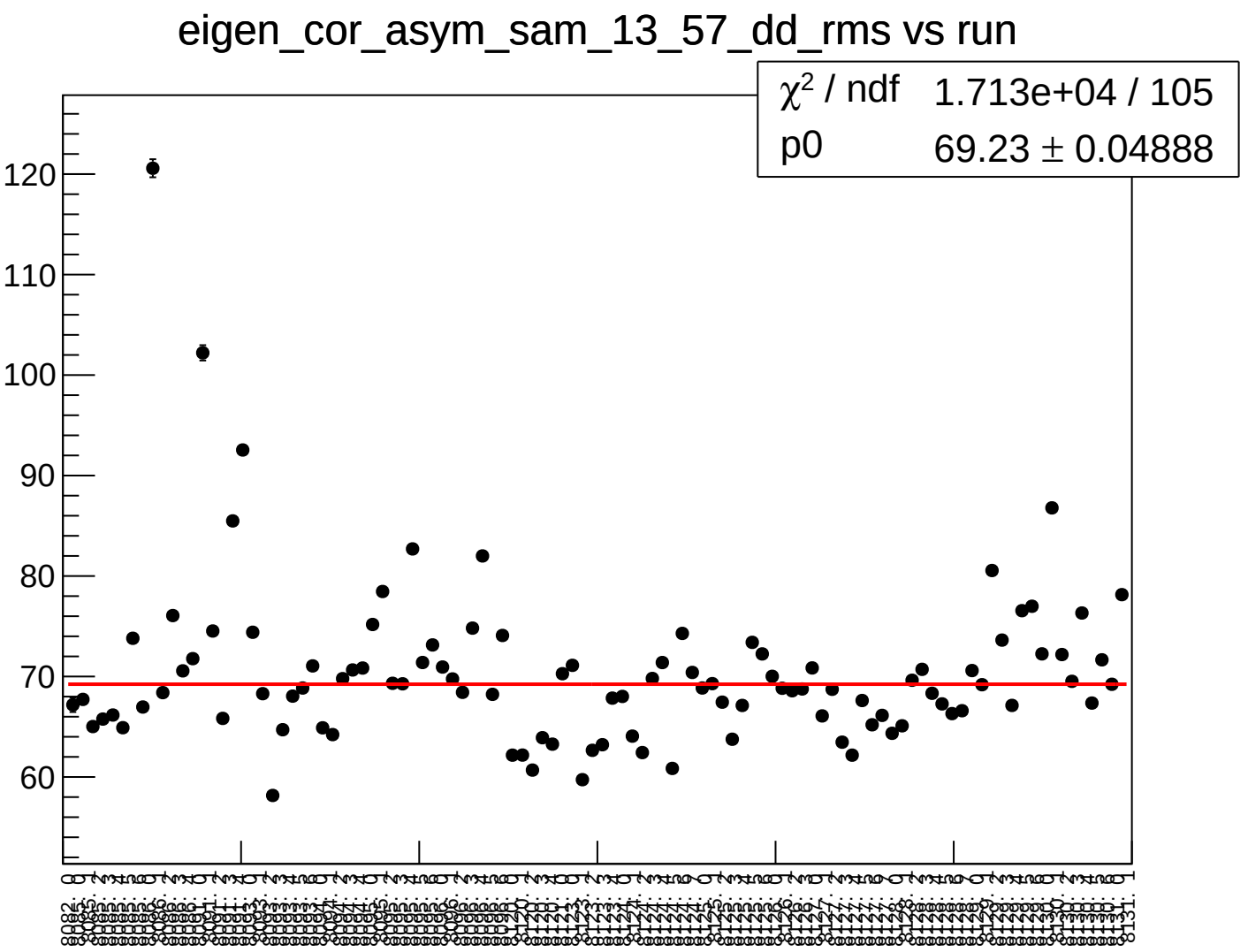

asym_sam_13_57_dd_cor_correction_mean vs run
χ² / ndf 79.21 / 105
p0 −724.1± 668
20000
10000
0
−10000
−20000
pull
Entries 106
Mean −65.46
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

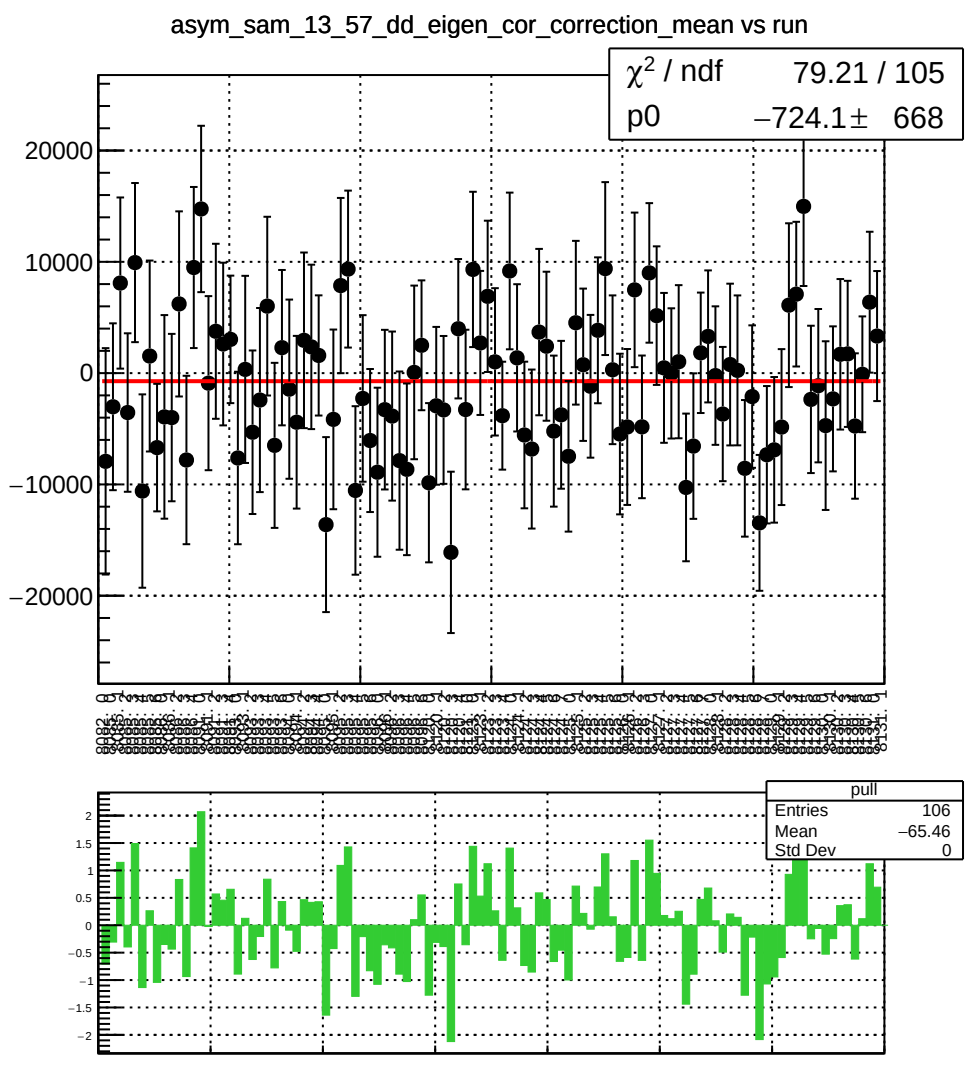

pull1D
Entries 106
Mean −0.00419
Std Dev 0.8644
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

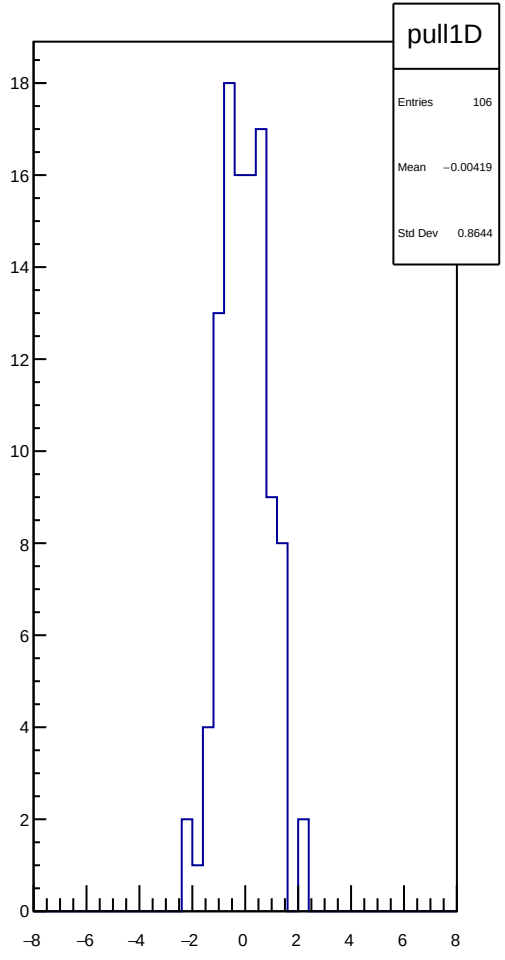

asym_sam_13_57_dd_cor_correction_rms vs run
χ² / ndf 1.603e+04 / 105
p0 669.1 ± 0.4723
900
850
800
750
700
650
600
550

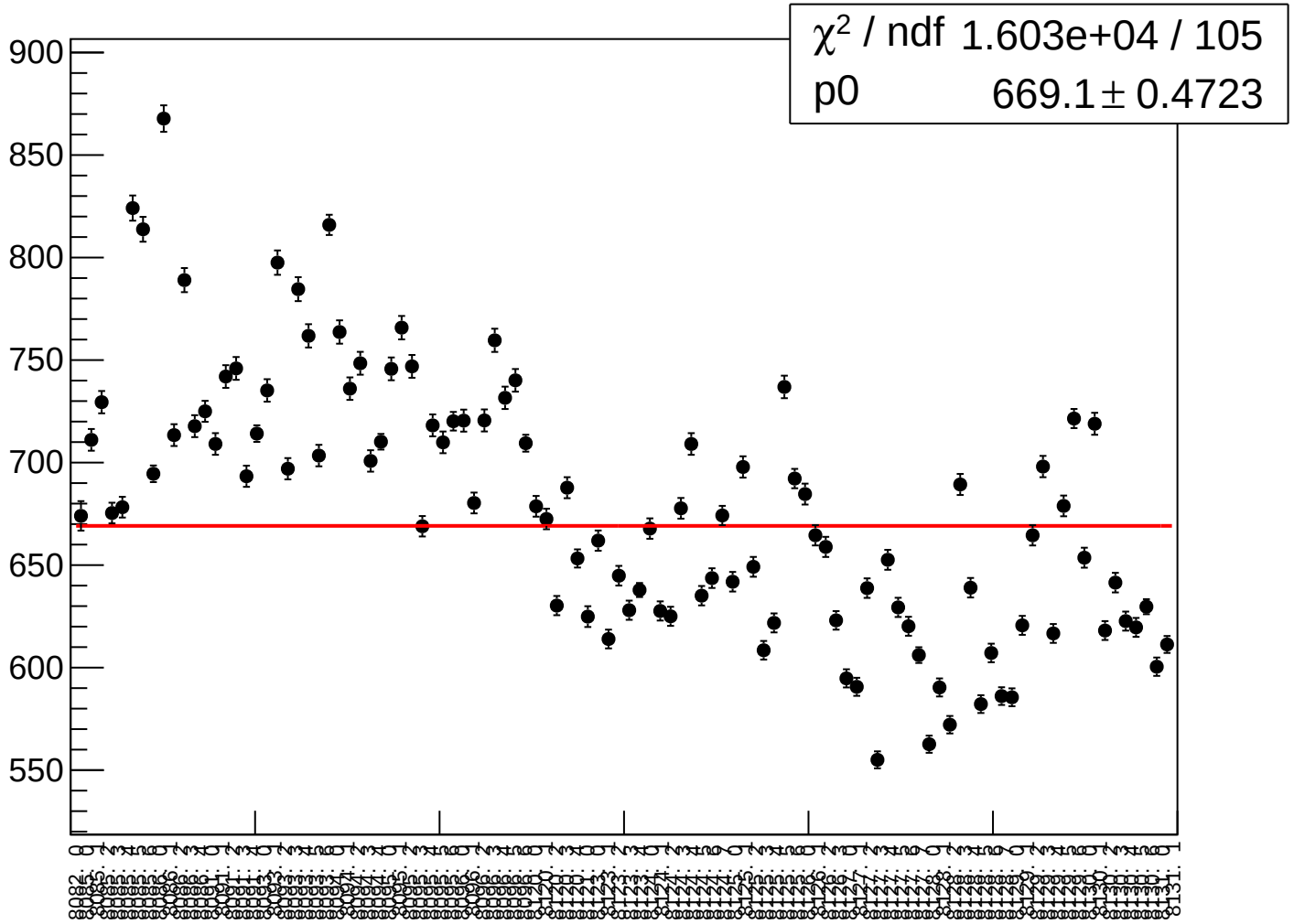

eigen_cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 87.15 / 105
p0 −103.5 ± 69.13
2000
1000
0
−1000
−2000
−3000
pull
Entries 106
Mean −104.7
Std Dev 0
2
1
0
−1
−2

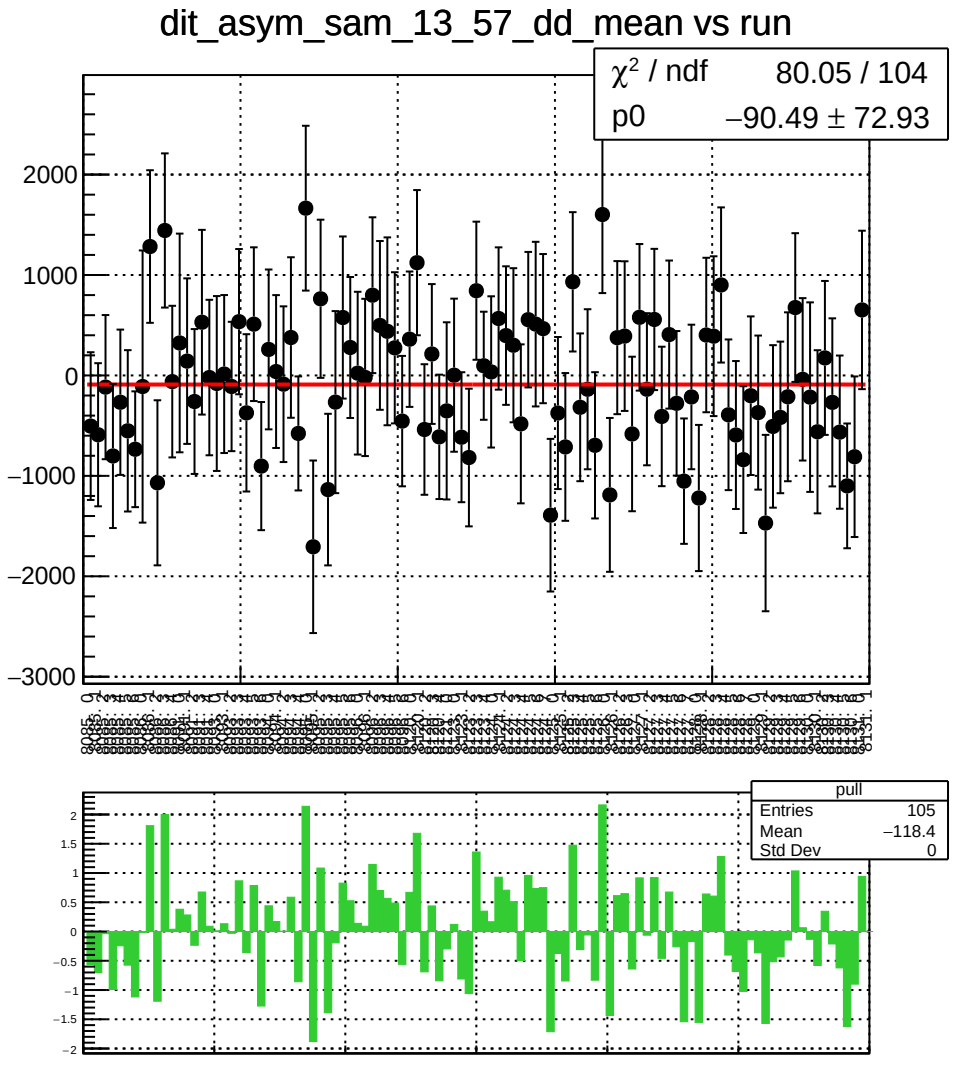

pull1D
Entries 106
Mean 0.01627
Std Dev 0.9066
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

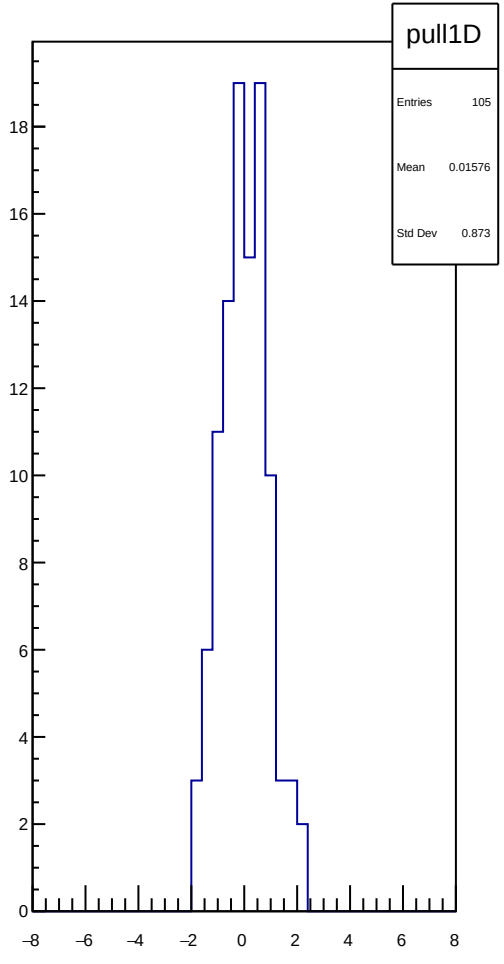

eigen_cor_asym_sam_13_57_dd_rms vs run
χ² / ndf 1.713e+04 / 105
p0 69.23 ± 0.04888
120
110
100
90
80
70
60

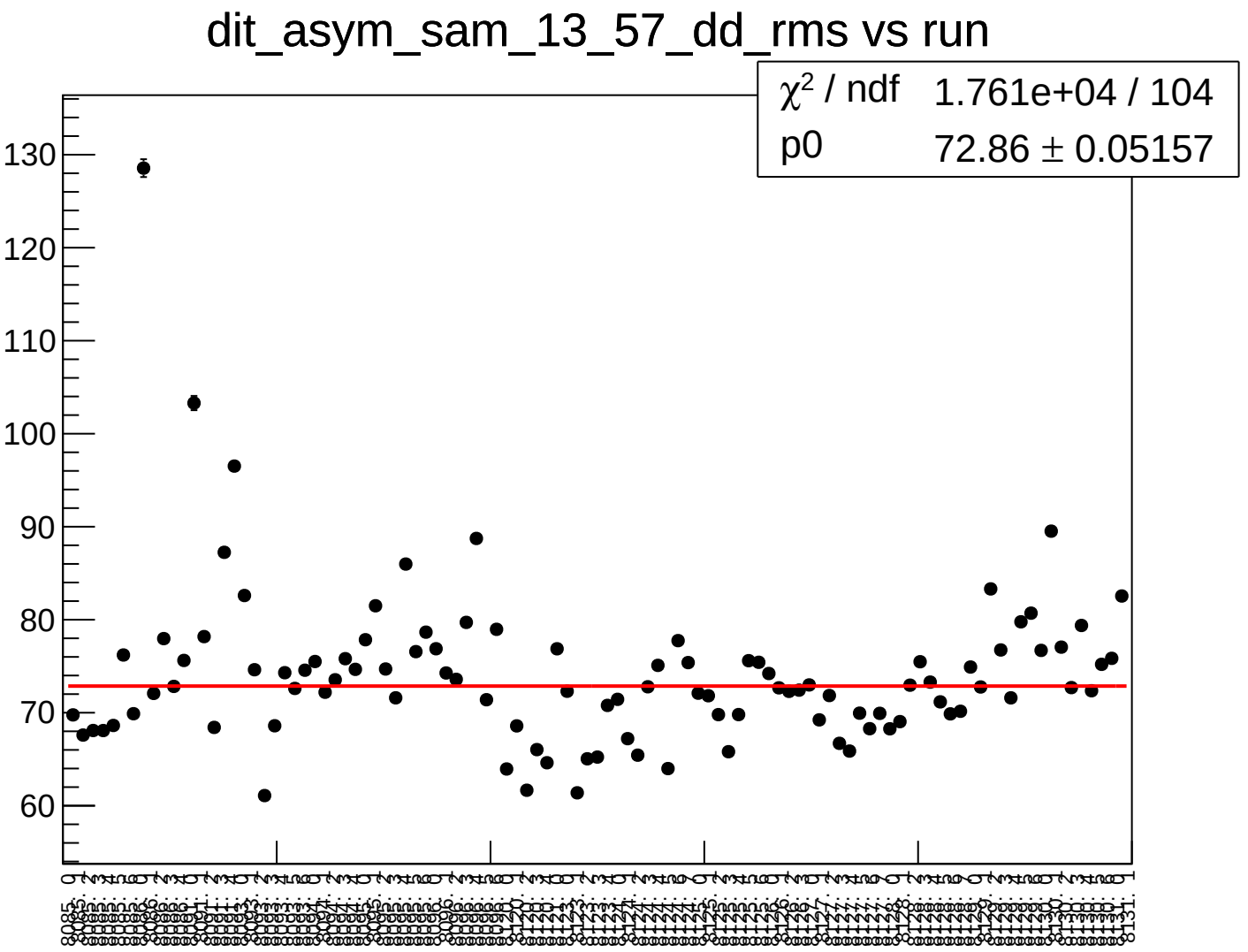

asym_sam_13_57_dd_eigen_cor_correction_mean vs run
χ² / ndf 79.21 / 105
p0 −724.1± 668
20000
10000
0
−10000
−20000
pull
Entries 106
Mean −65.46
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

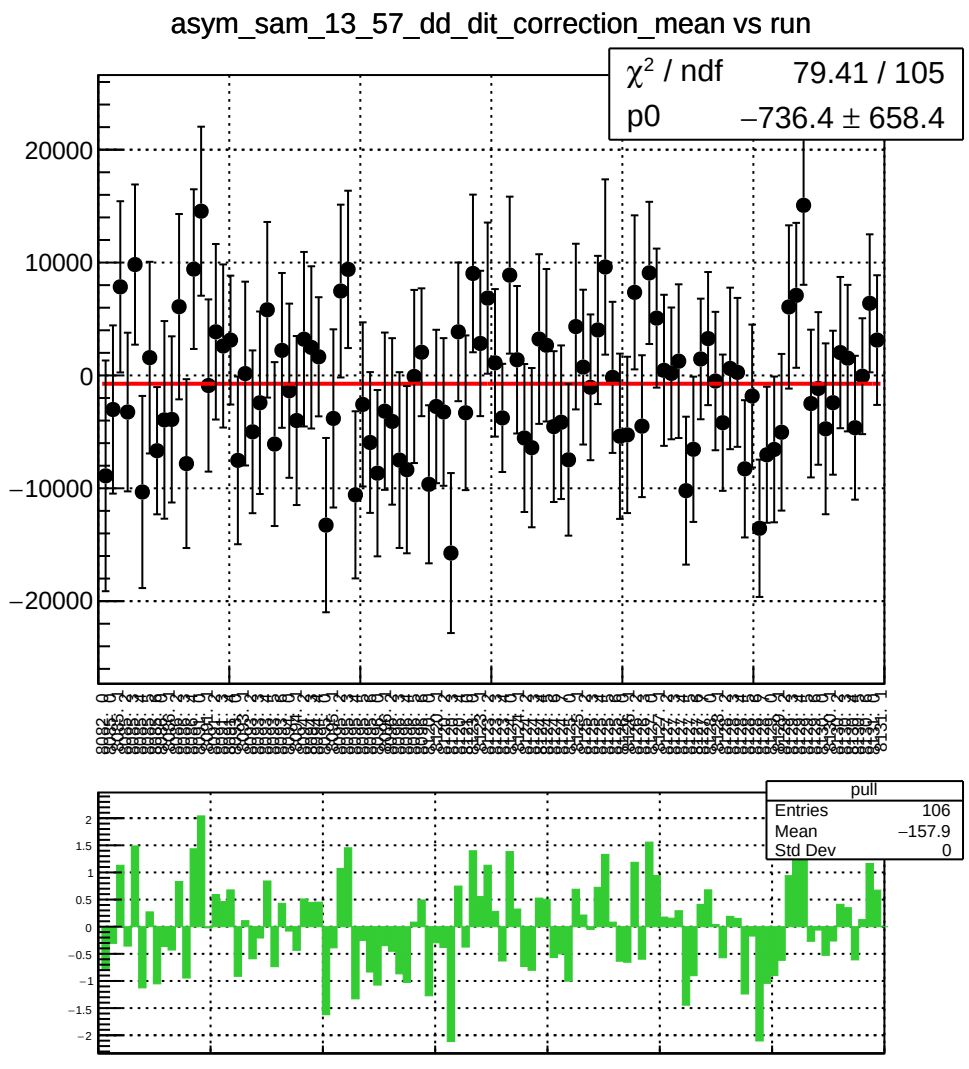

pull1D
Entries 106
Mean −0.00419
Std Dev 0.8644
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

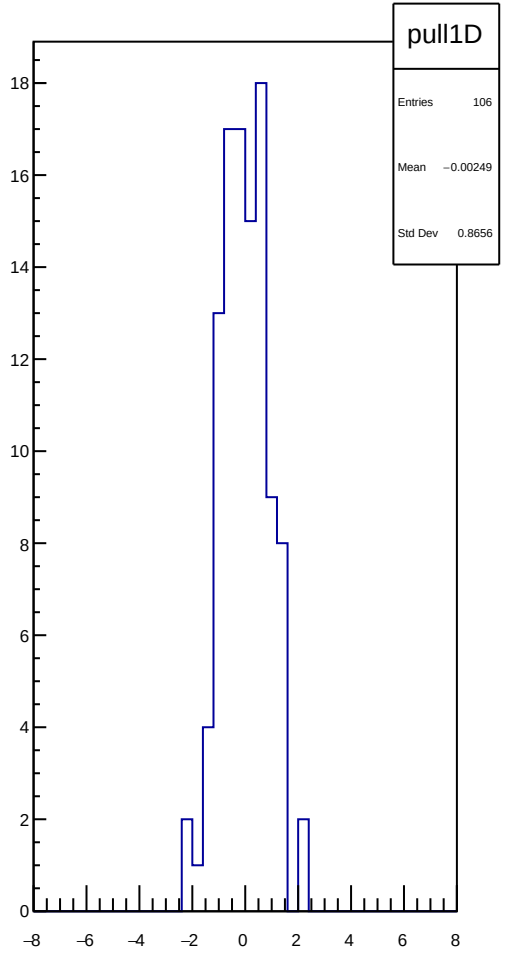

asym_sam_13_57_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.603e+04 / 105
p0 669.1 ± 0.4723
900
850
800
750
700
650
600
550

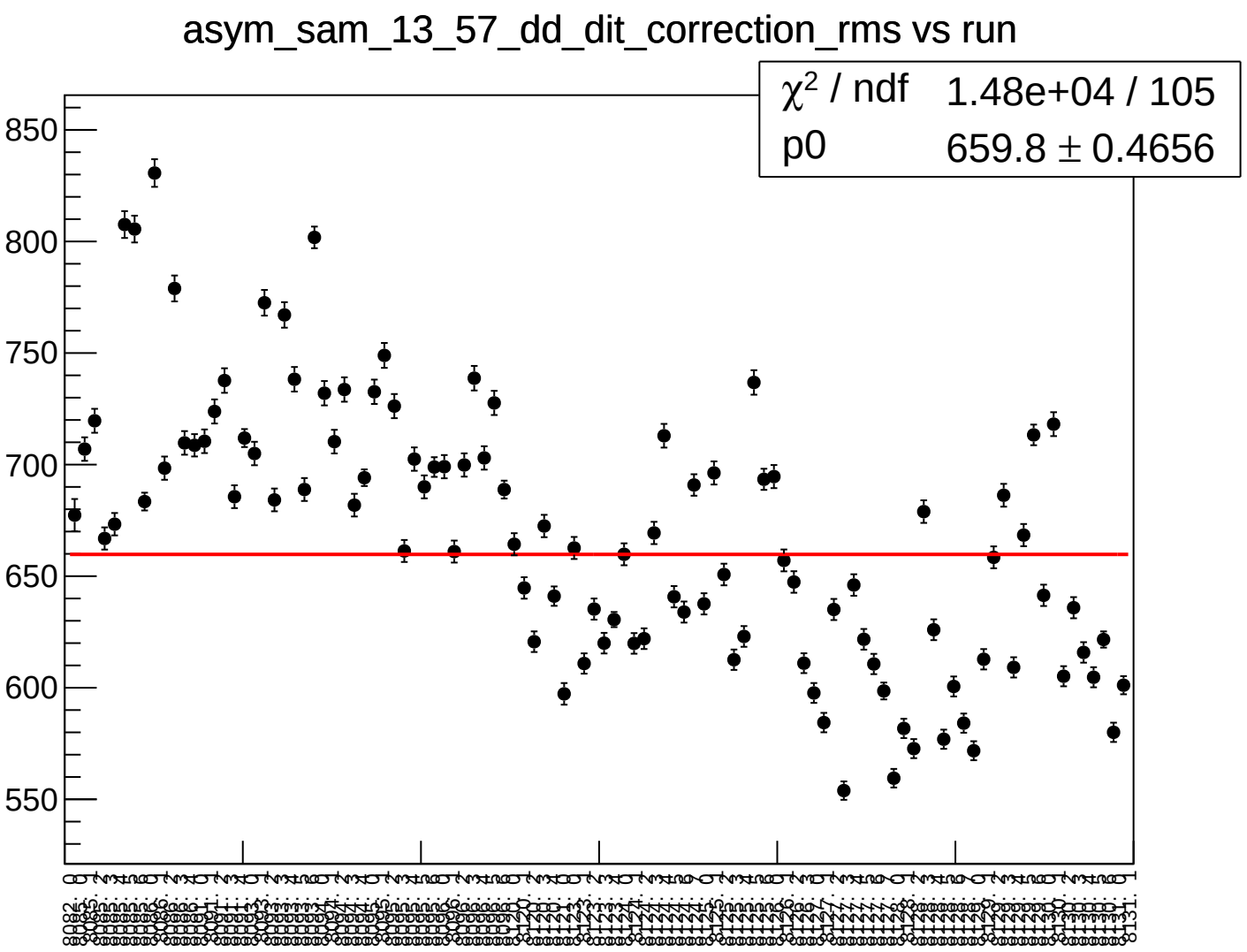

dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 80.05 / 104
p0 −90.49 ± 72.93
2000
1000
0
−1000
−2000
−3000
pull
Entries 105
Mean −118.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

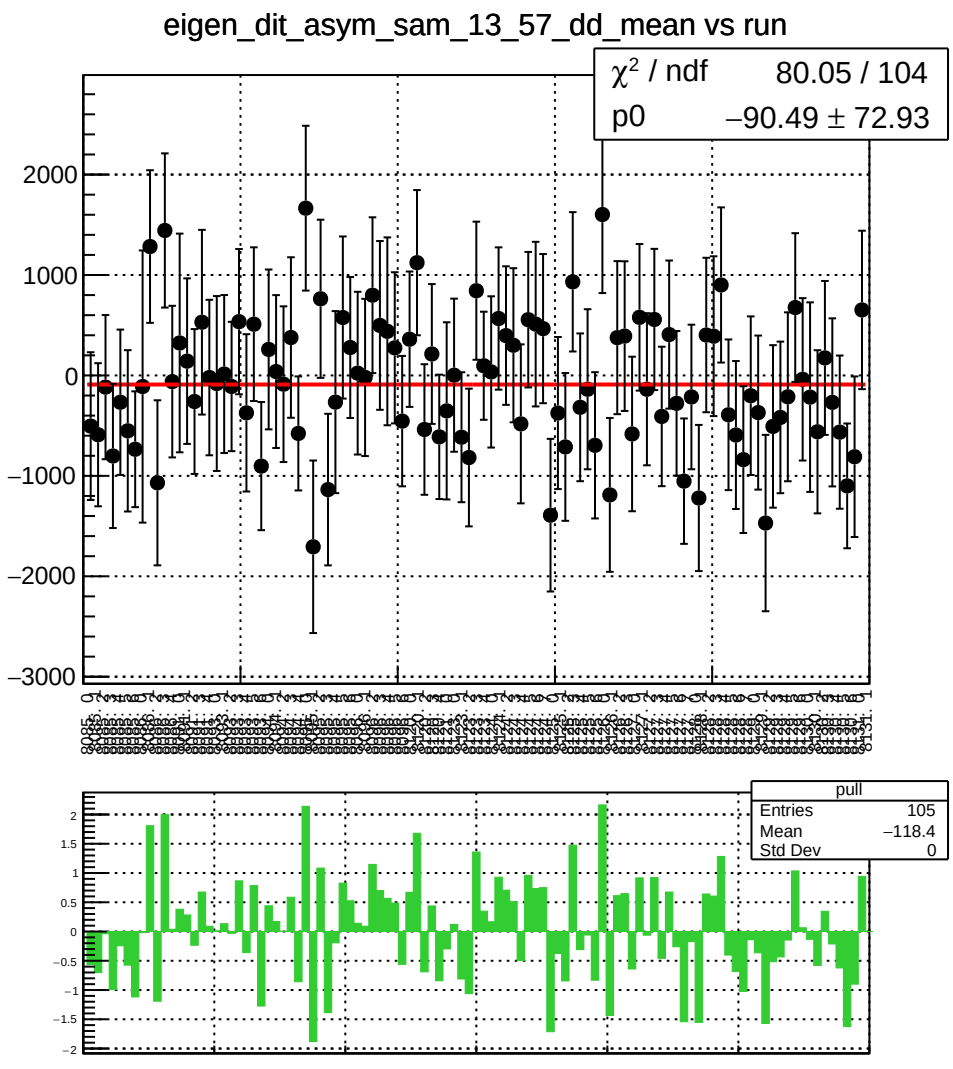

pull1D
Entries 105
Mean 0.01576
Std Dev 0.873
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

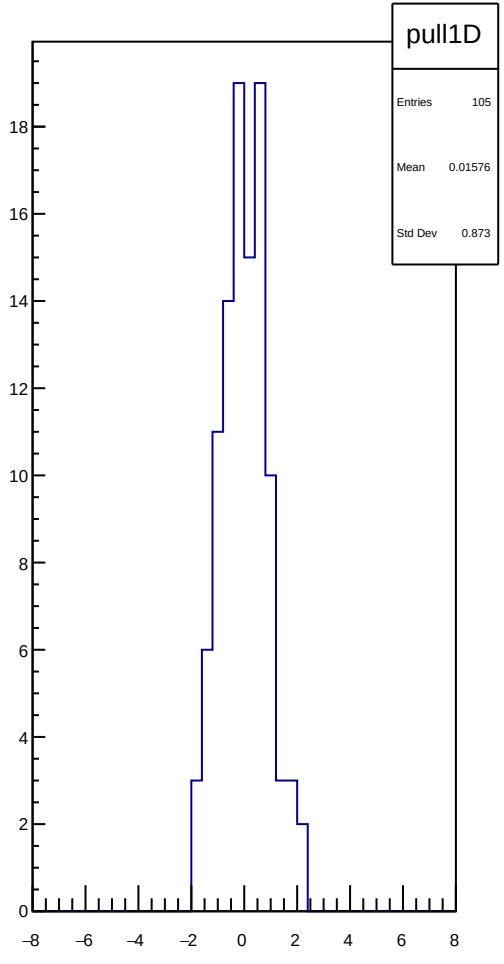

dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 1.761e+04 / 104
p0 72.86 ± 0.05157
130
120
110
100
90
80
70
60

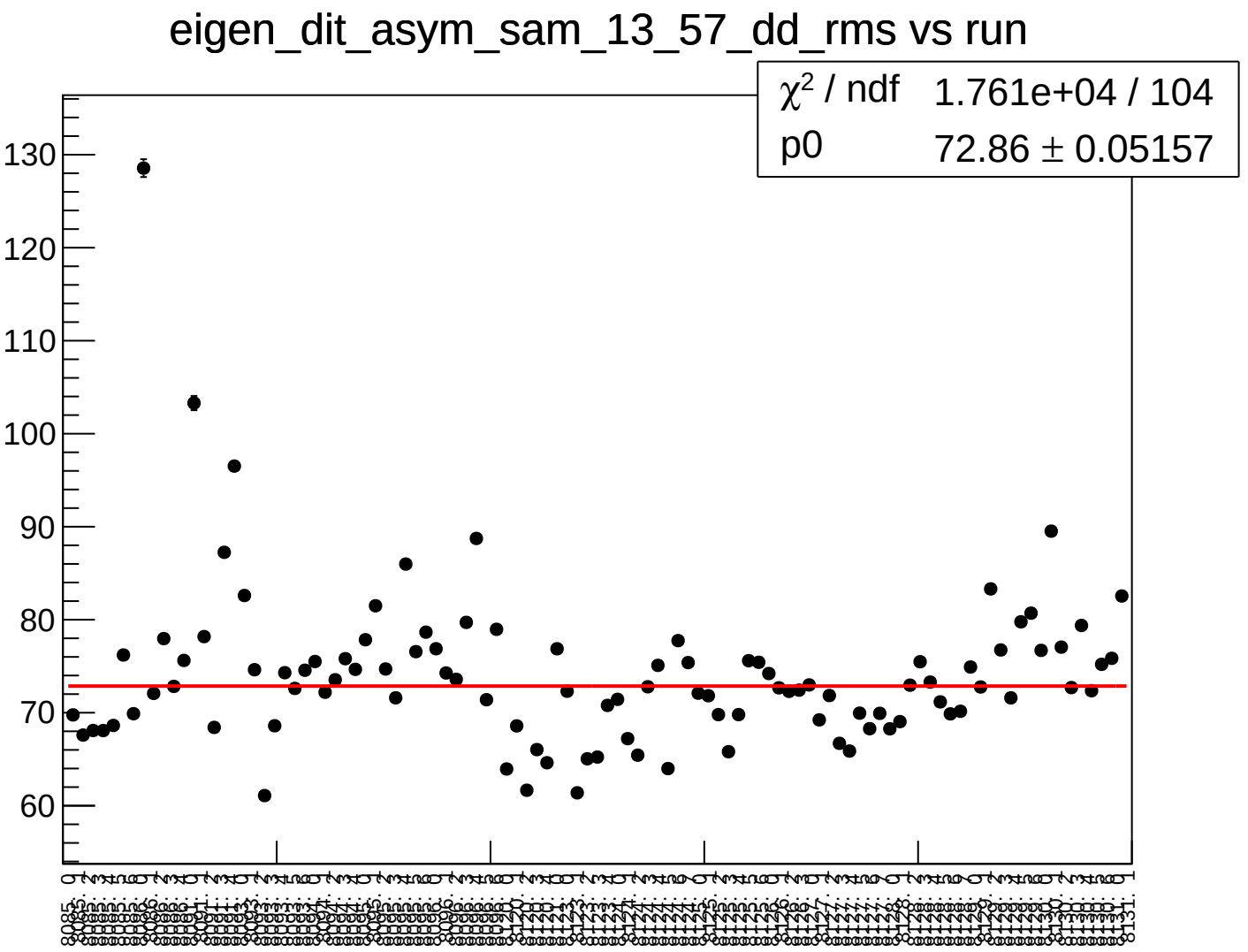

asym_sam_13_57_dd_dit_correction_mean vs run
χ² / ndf 79.41 / 105
p0 −736.4 ± 658.4
20000
10000
0
−10000
−20000
pull
Entries 106
Mean −157.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

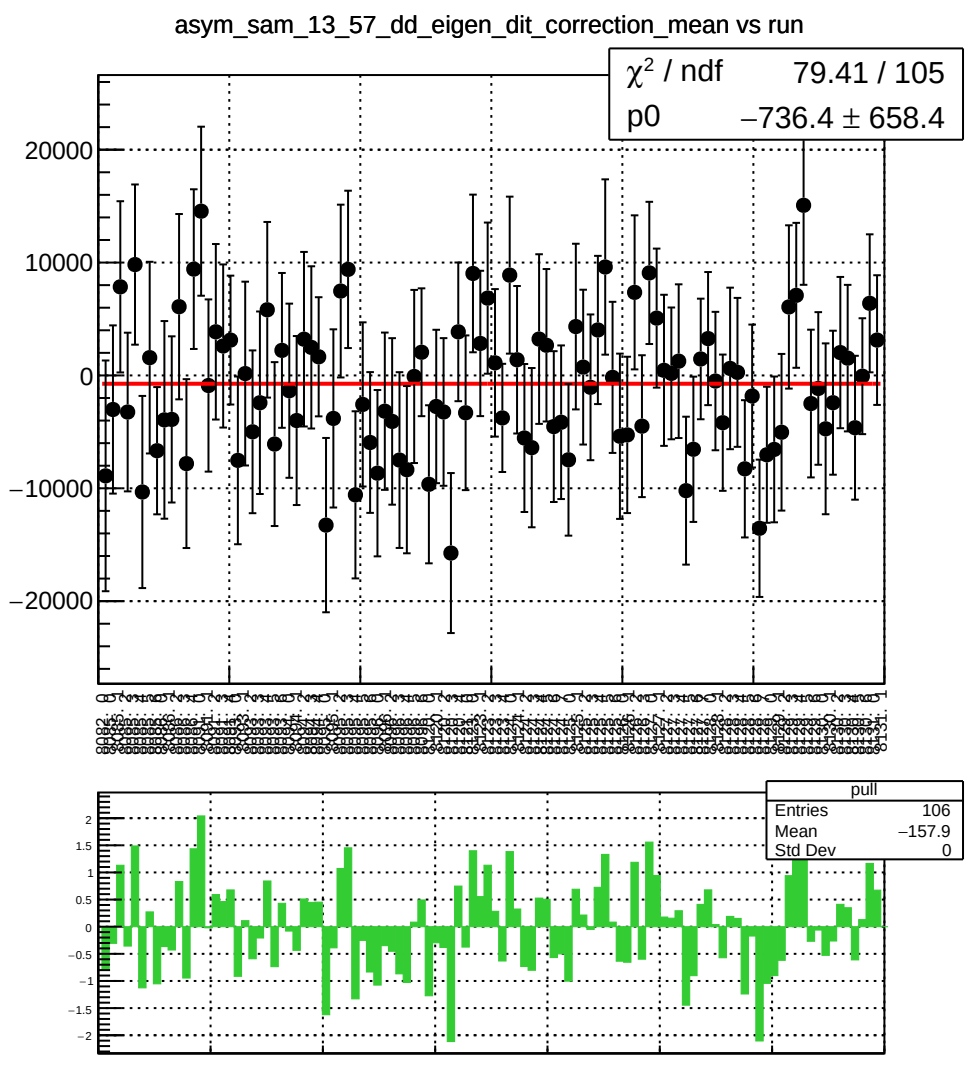

pull1D
Entries 106
Mean −0.00249
Std Dev 0.8656
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

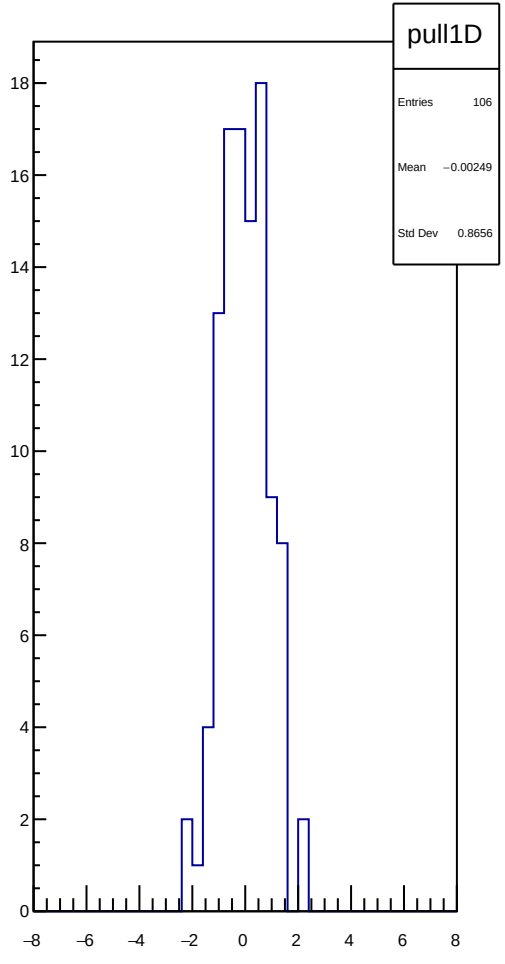

asym_sam_13_57_dd_dit_correction_rms vs run
χ² / ndf 1.48e+04 / 105
p0 659.8 ± 0.4656
850
800
750
700
650
600
550

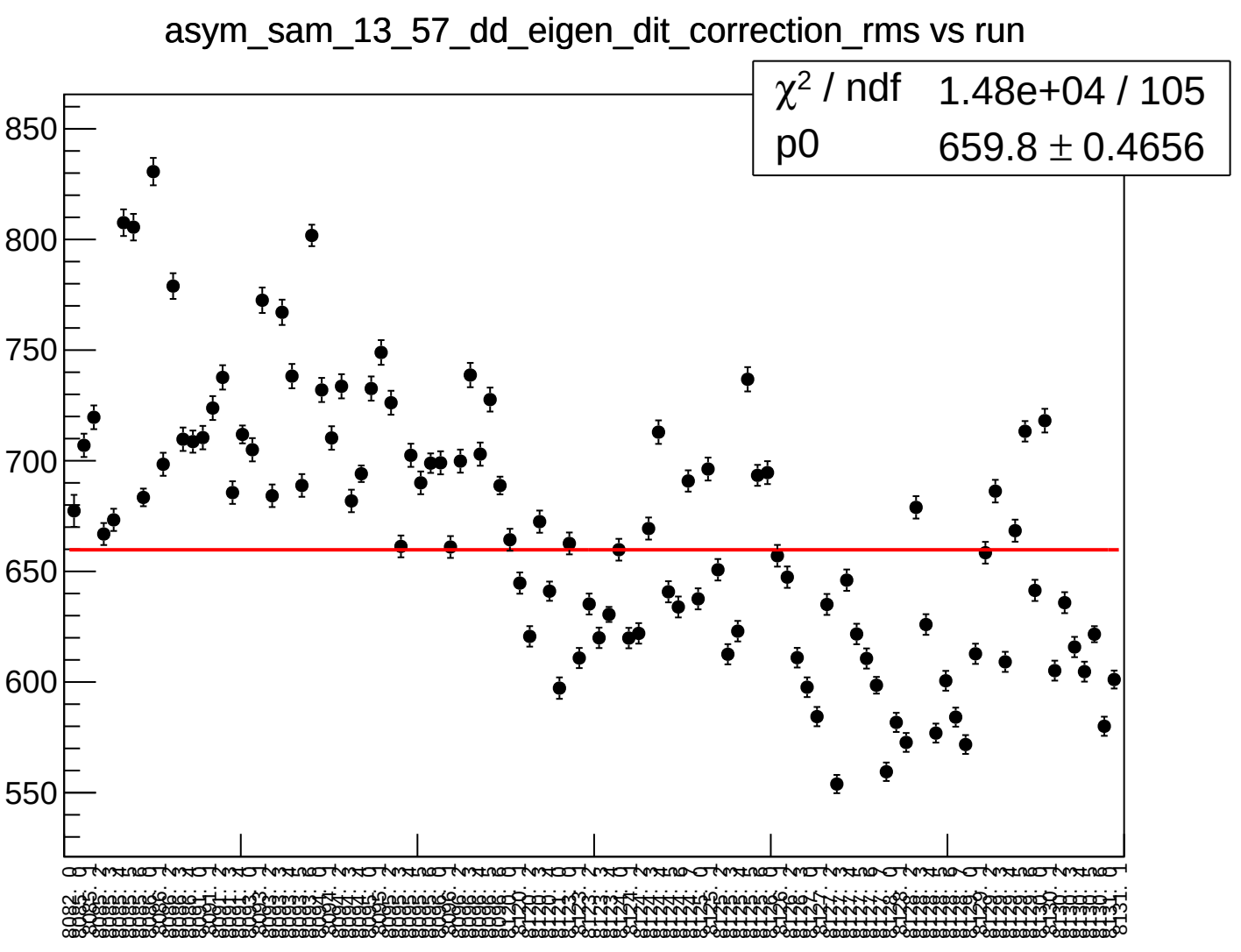

eigen_dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 80.05 / 104
p0 −90.49 ± 72.93
2000
1000
0
−1000
−2000
−3000
pull
Entries 105
Mean −118.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

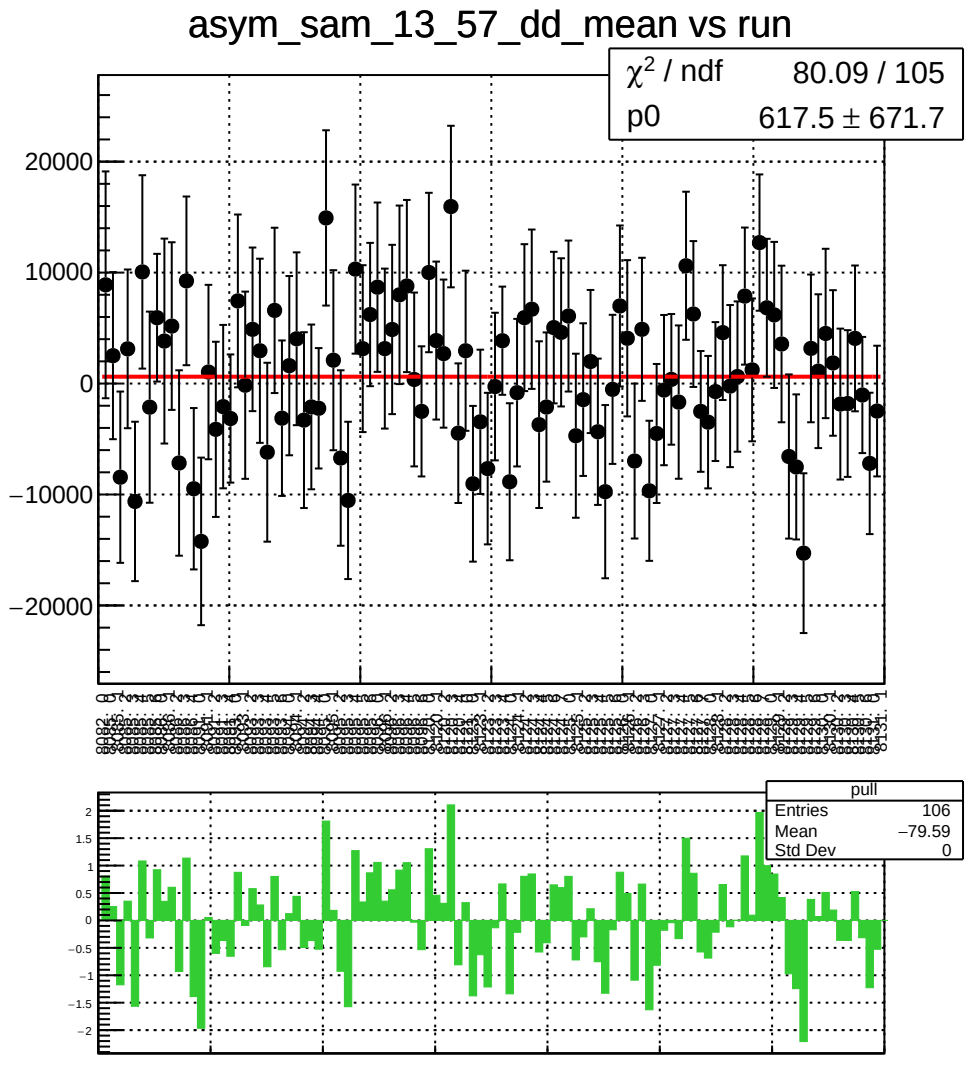

pull1D
Entries 105
Mean 0.01576
Std Dev 0.873
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

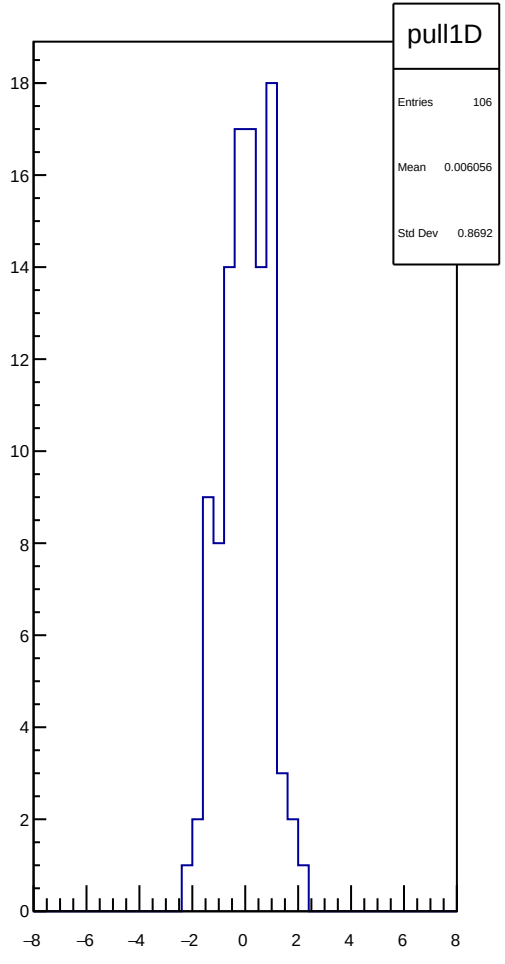

eigen_dit_asym_sam_13_57_dd_rms vs run
$\chi^2$ / ndf 1.761e+04 / 104
p0 72.86 ± 0.05157
130
120
110
100
90
80
70
60

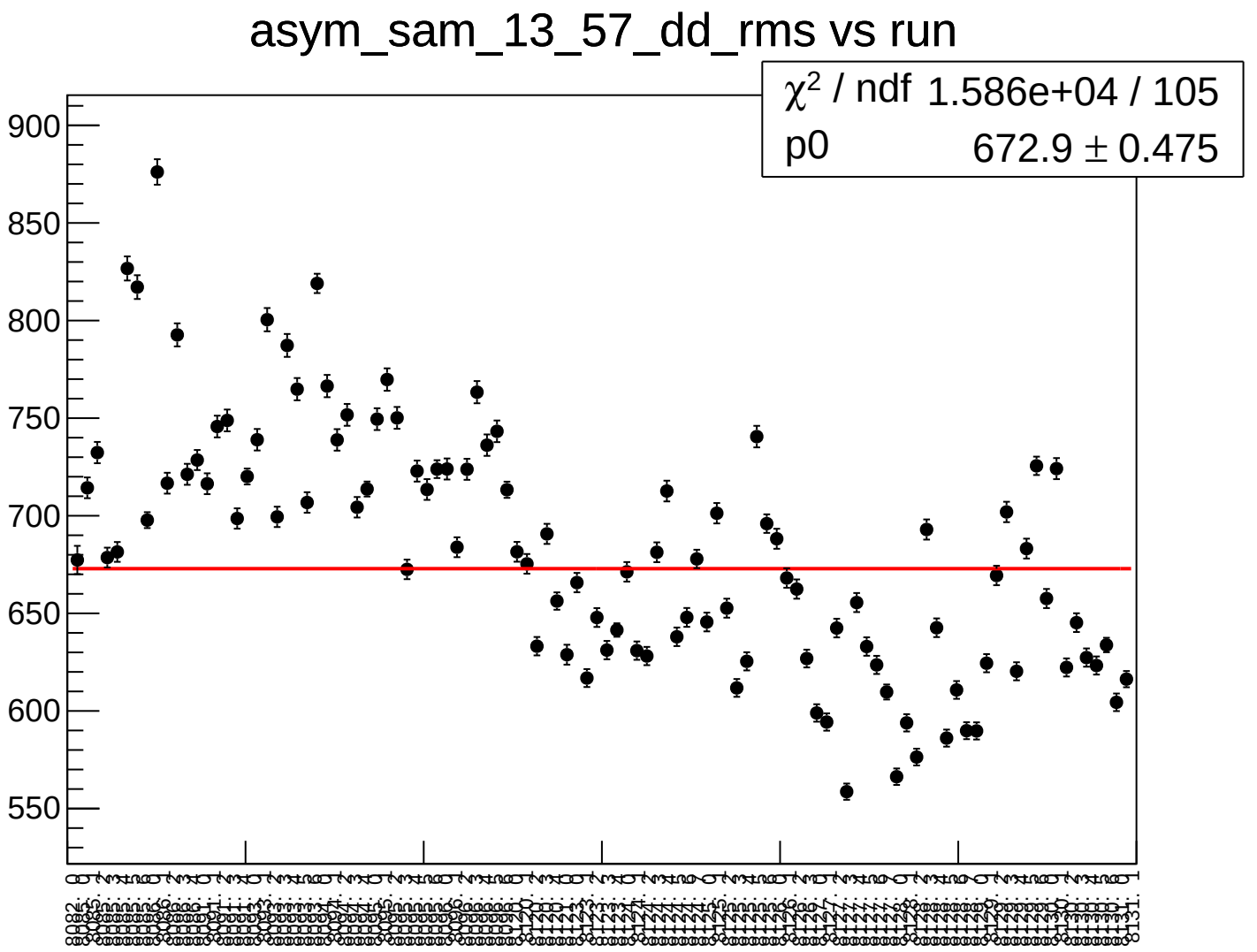

asym_sam_13_57_dd_eigen_dit_correction_mean vs run
χ² / ndf 79.41 / 105
p0 −736.4 ± 658.4
20000
10000
0
−10000
−20000
pull
Entries 106
Mean −157.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

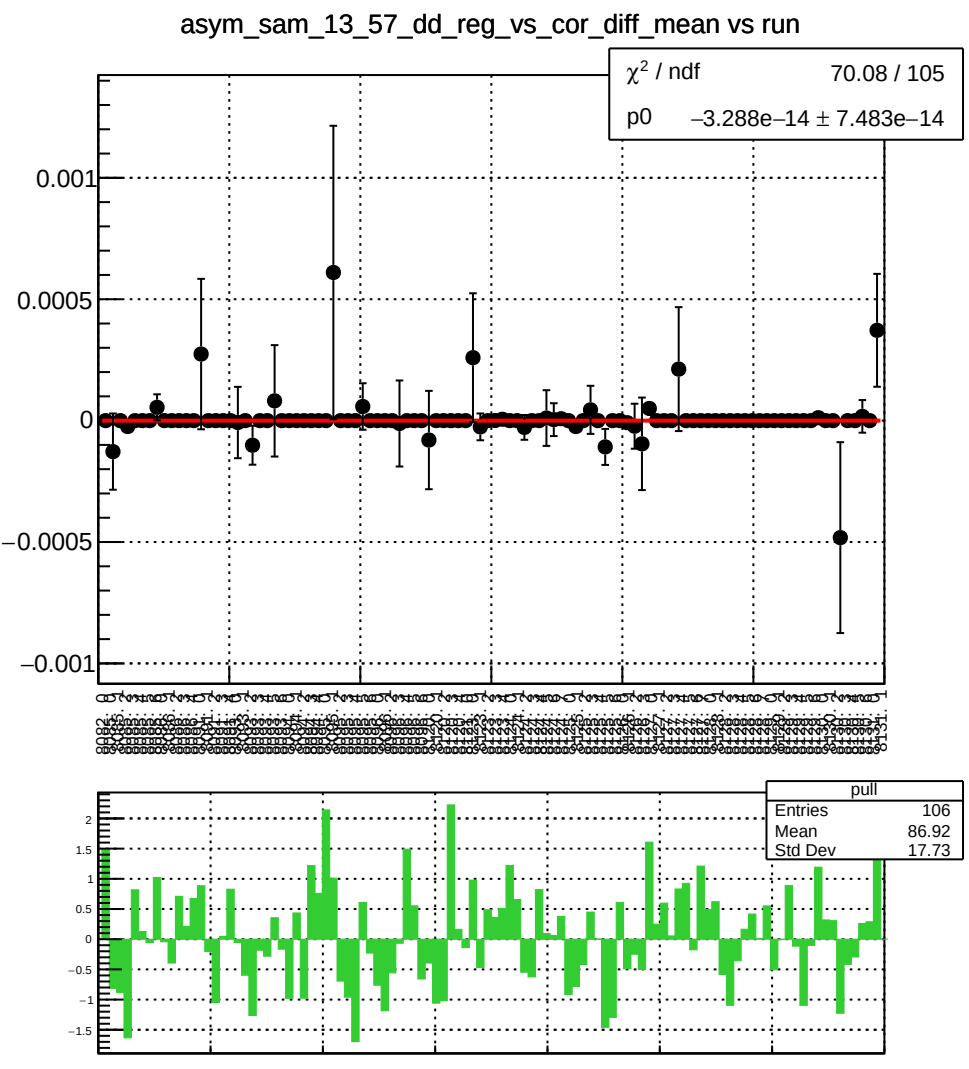

pull1D
Entries 106
Mean −0.00249
Std Dev 0.8656
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

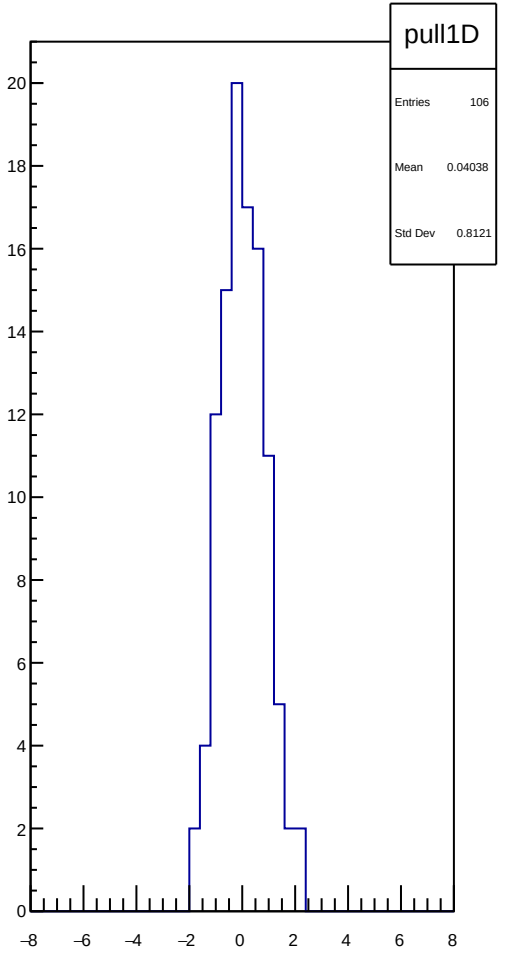

asym_sam_13_57_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.48e+04 / 105
p0 659.8 ± 0.4656
850
800
750
700
650
600
550

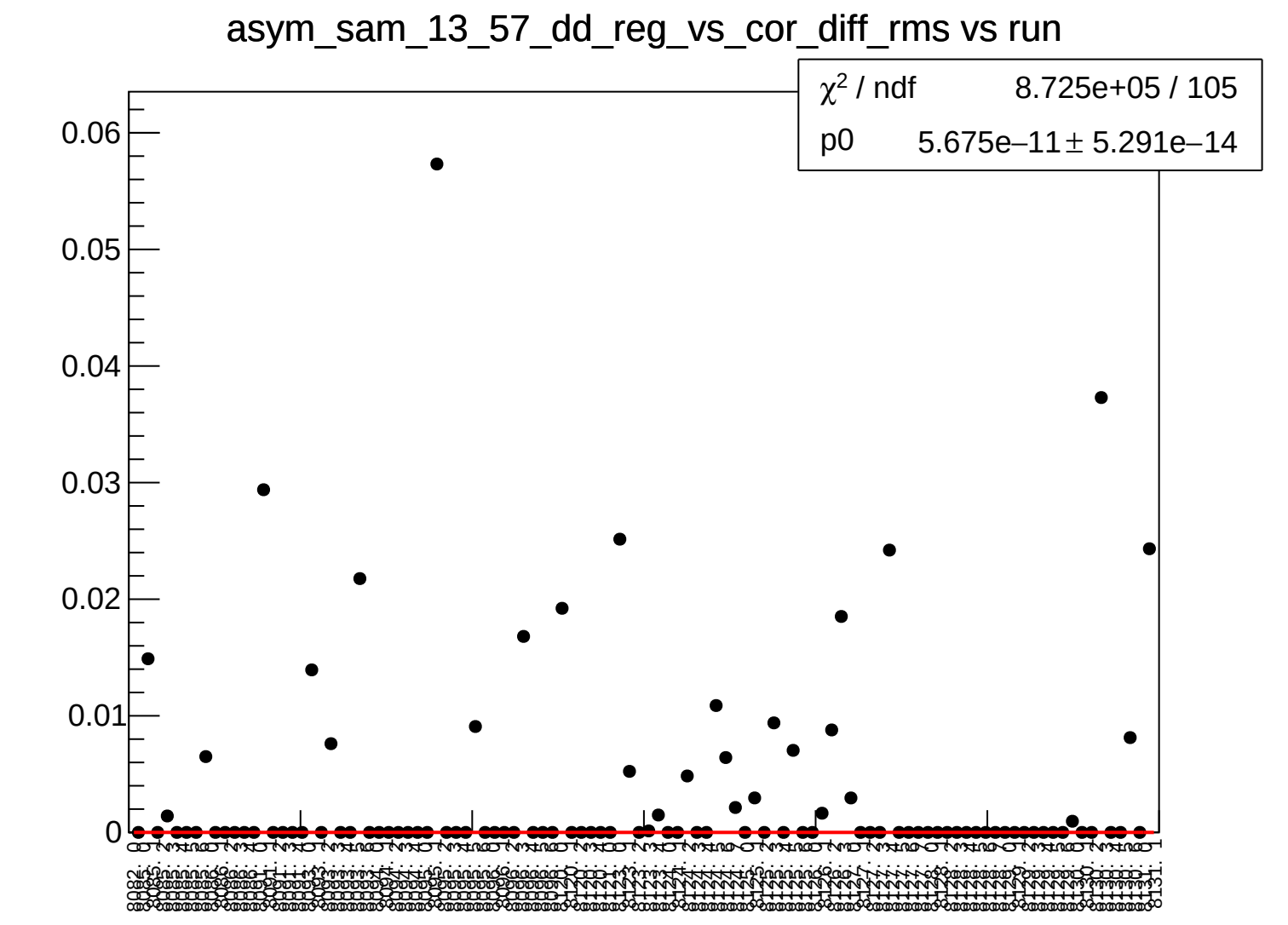

asym_sam_13_57_dd_mean vs run
χ² / ndf 80.09 / 105
p0 617.5 ± 671.7
20000
10000
0
−10000
−20000
pull
Entries 106
Mean −79.59
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

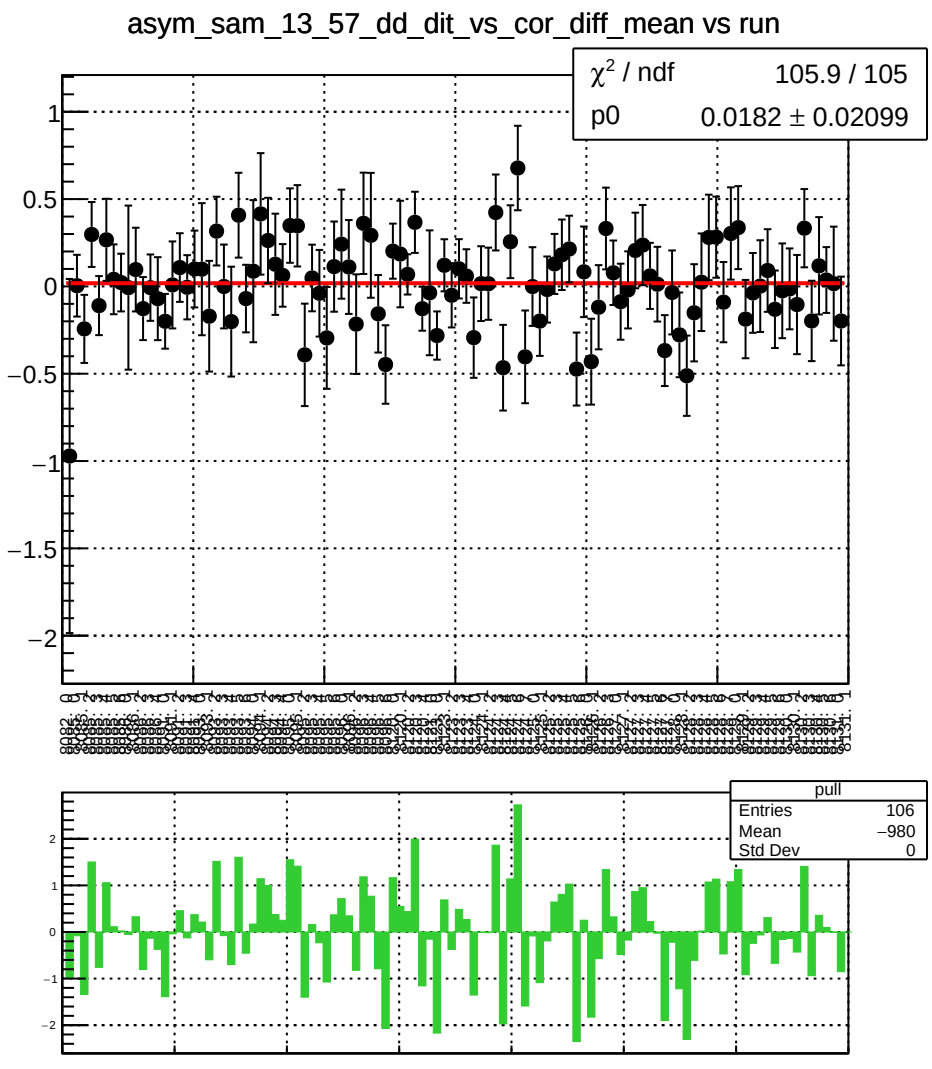

pull1D
Entries 106
Mean 0.006056
Std Dev 0.8692
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

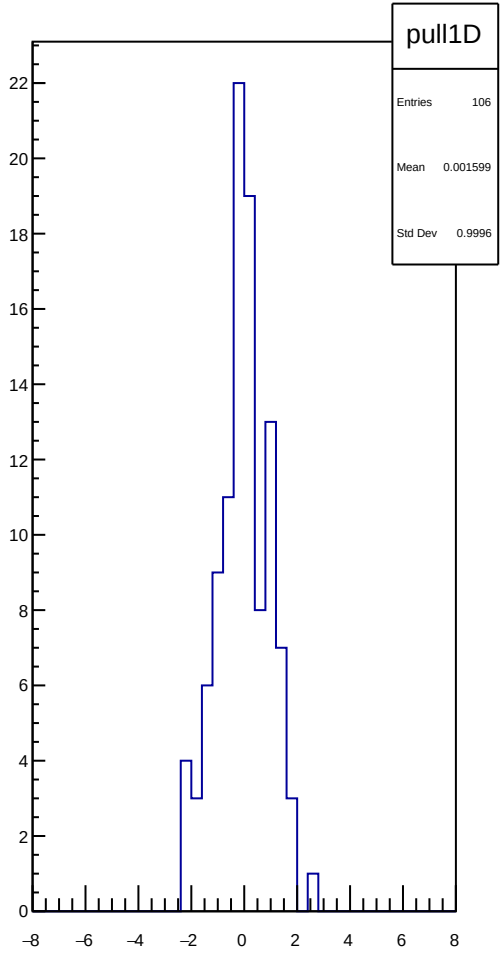

asym_sam_13_57_dd_rms vs run
$\chi^2$ / ndf 1.586e+04 / 105
p0 672.9 ± 0.475
900
850
800
750
700
650
600
550

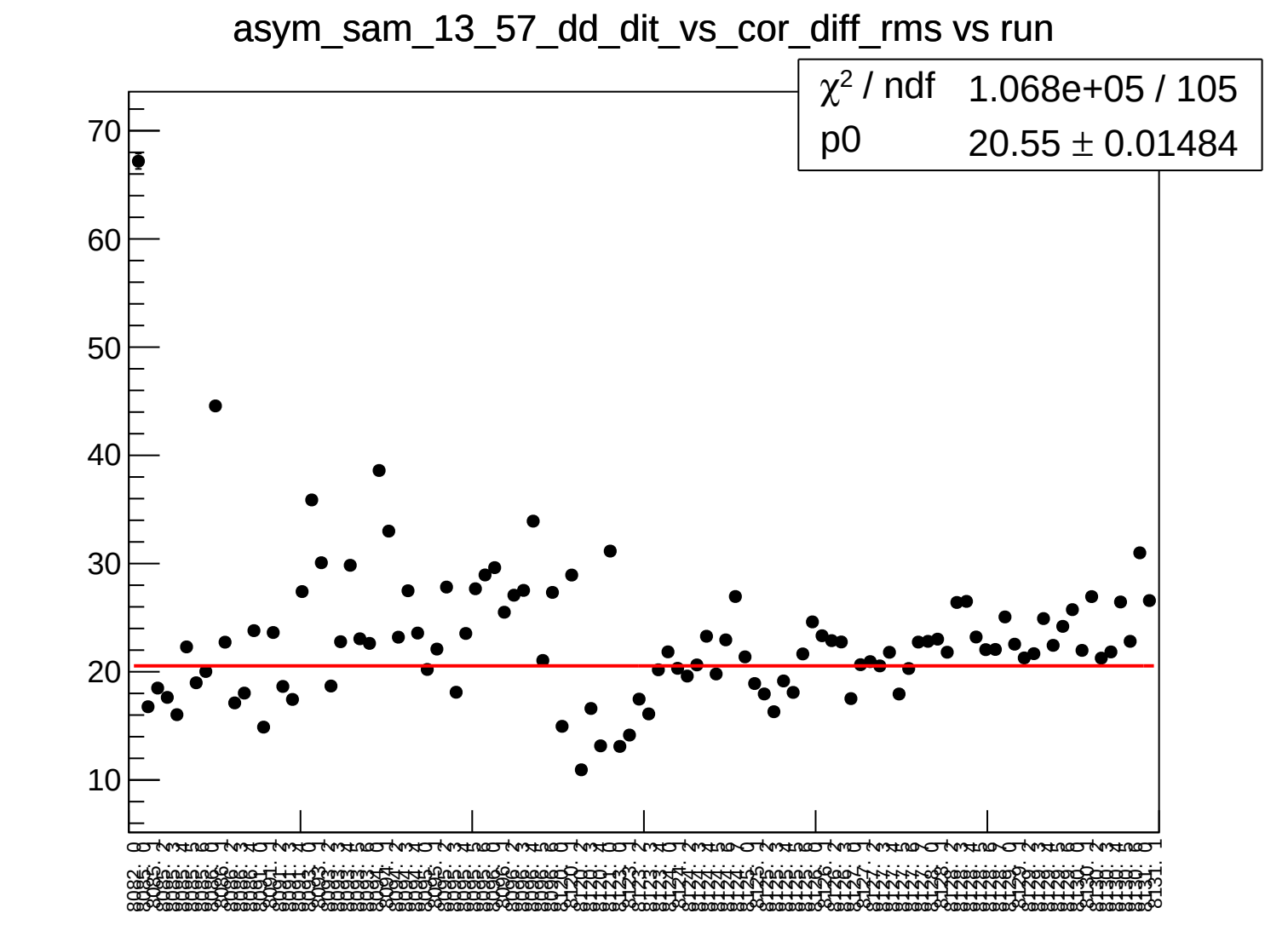

asym_sam_13_57_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 70.08 / 105
p0 −3.288e−14 ± 7.483e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 106
Mean 86.92
Std Dev 17.73
2
1.5
1
0.5
0
−0.5
−1
−1.5

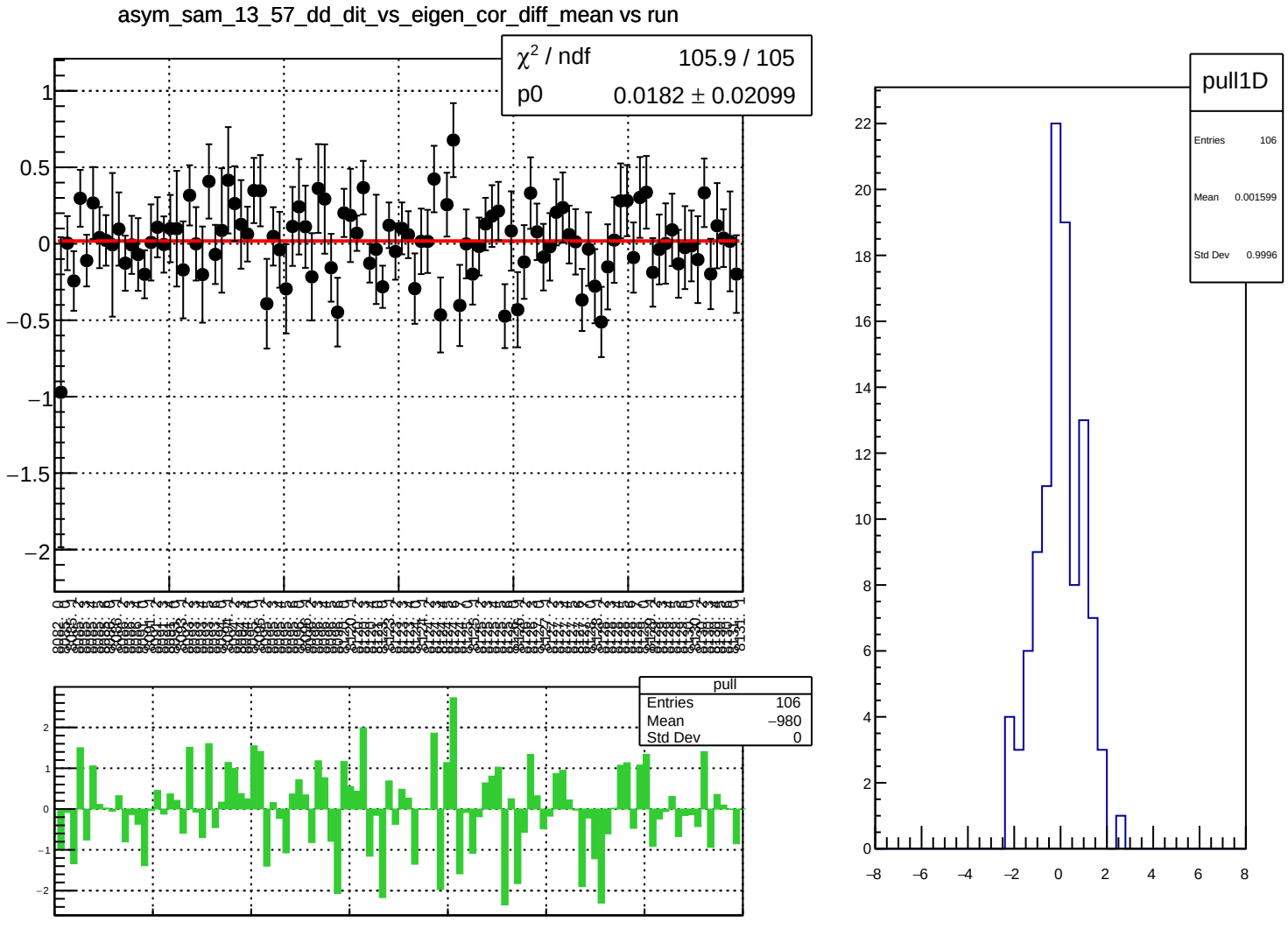

pull1D
Entries 106
Mean 0.04038
Std Dev 0.8121
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

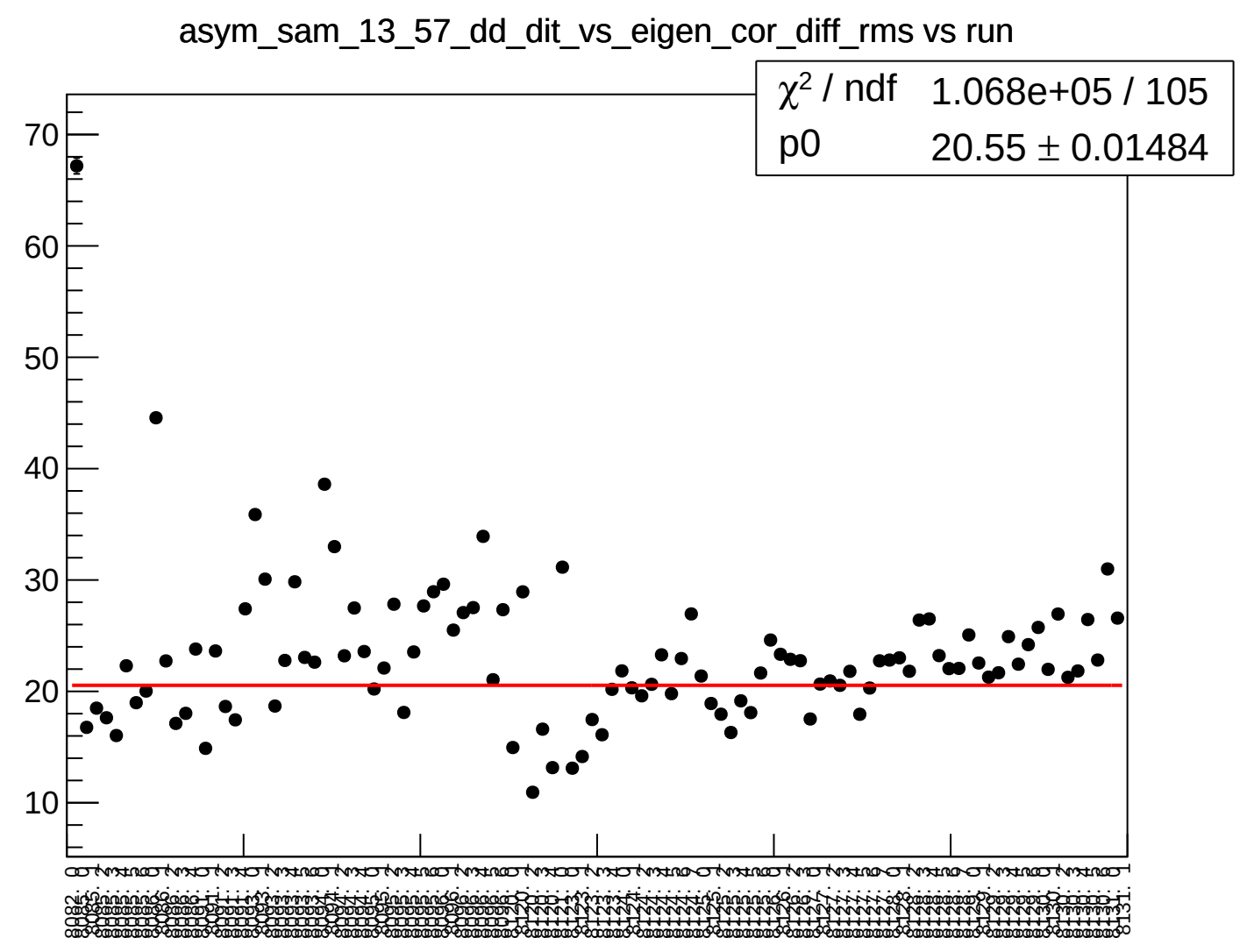

asym_sam_13_57_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.725e+05 / 105
p0 5.675e−11 ± 5.291e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

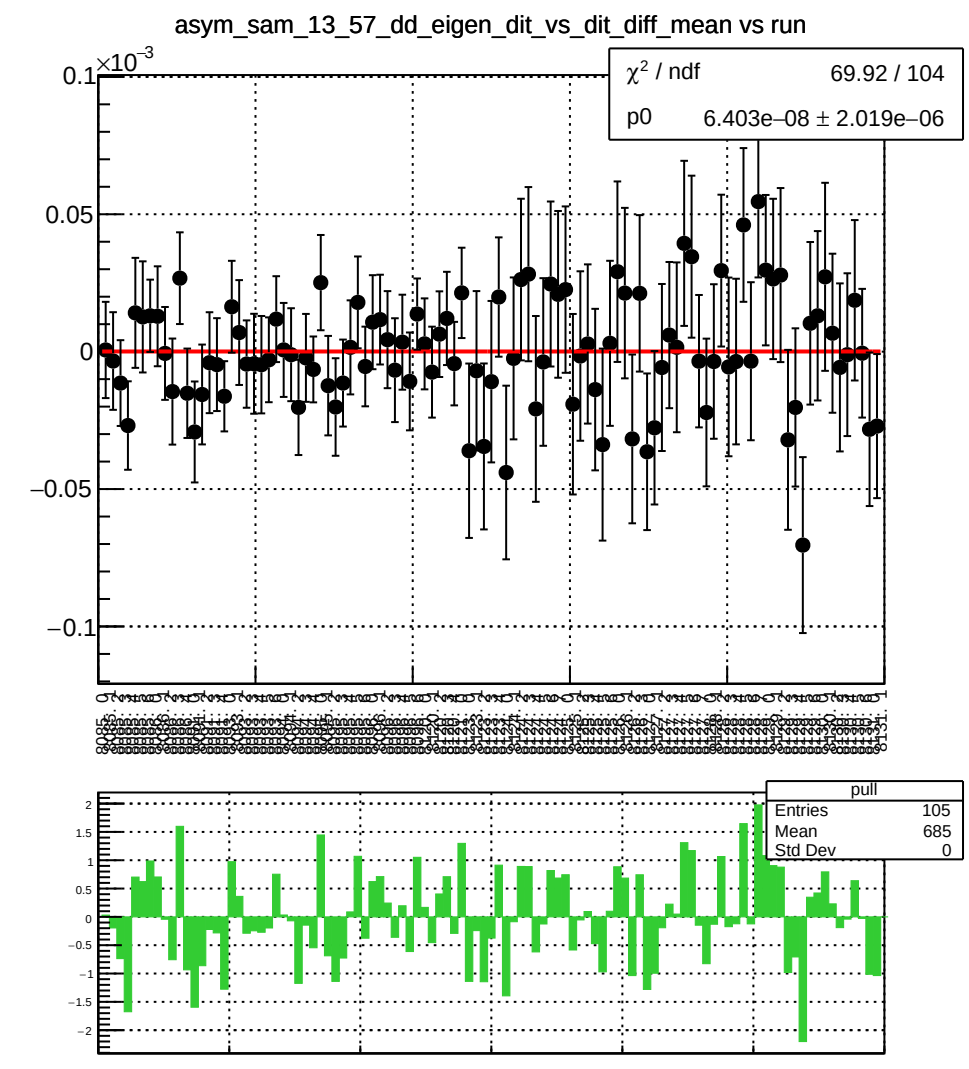

asym_sam_13_57_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 105.9 / 105
p0 0.0182 ± 0.02099
pull
Entries 106
Mean −980
Std Dev 0

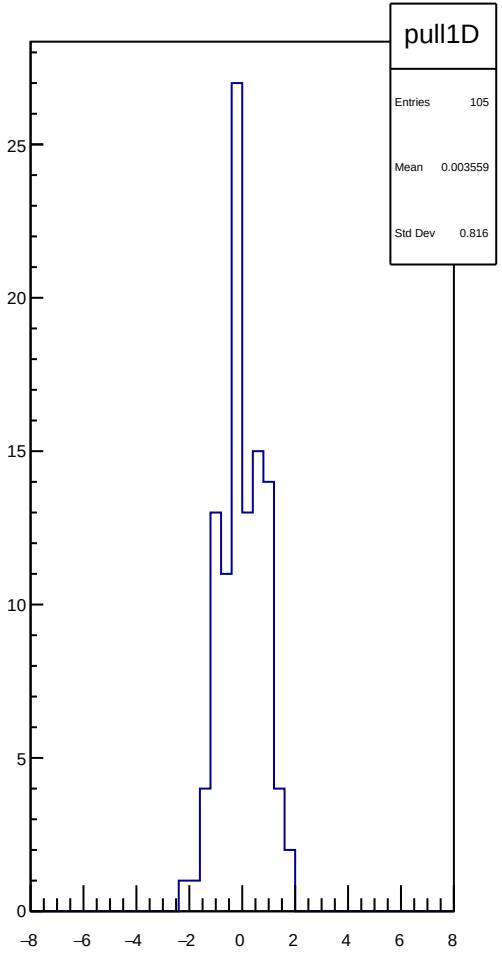

pull1D
Entries 106
Mean 0.001599
Std Dev 0.9996

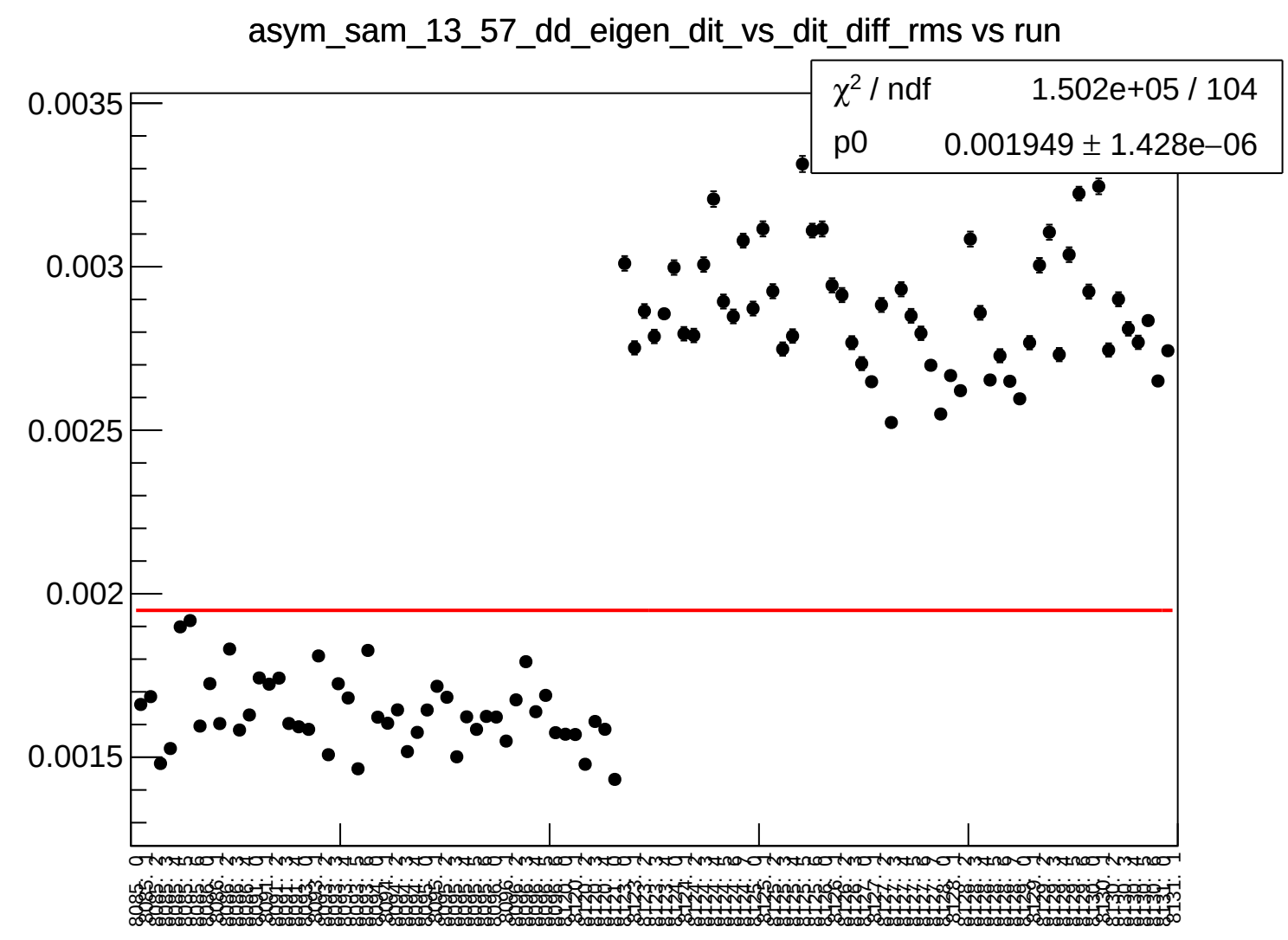

asym_sam_13_57_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.068e+05 / 105
p0 20.55 ± 0.01484
70
60
50
40
30
20
10

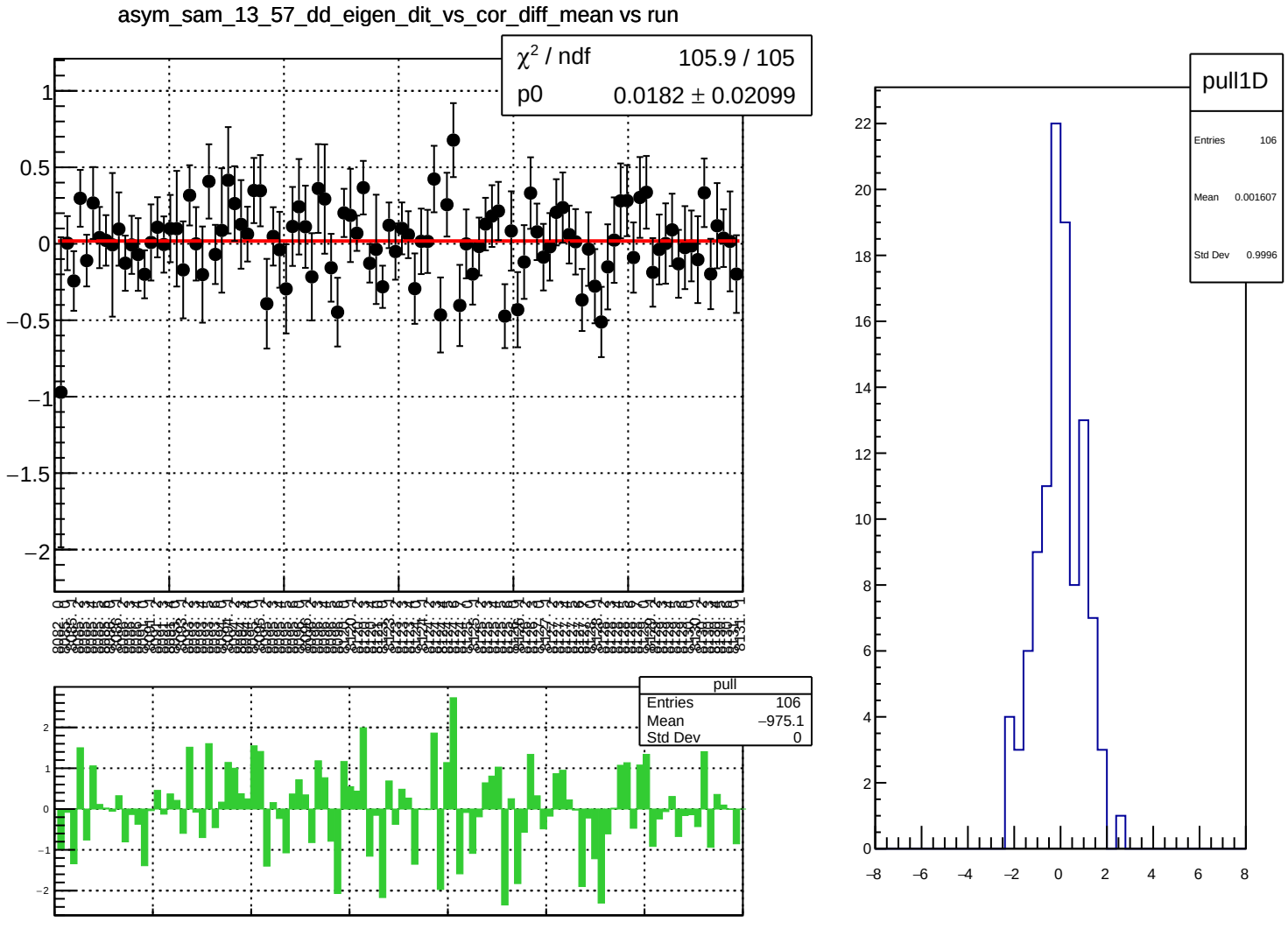

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.9 / 105
p0 0.0182 ± 0.02099
pull
Entries 106
Mean −980
Std Dev 0
pull1D
Entries 106
Mean 0.001599
Std Dev 0.9996

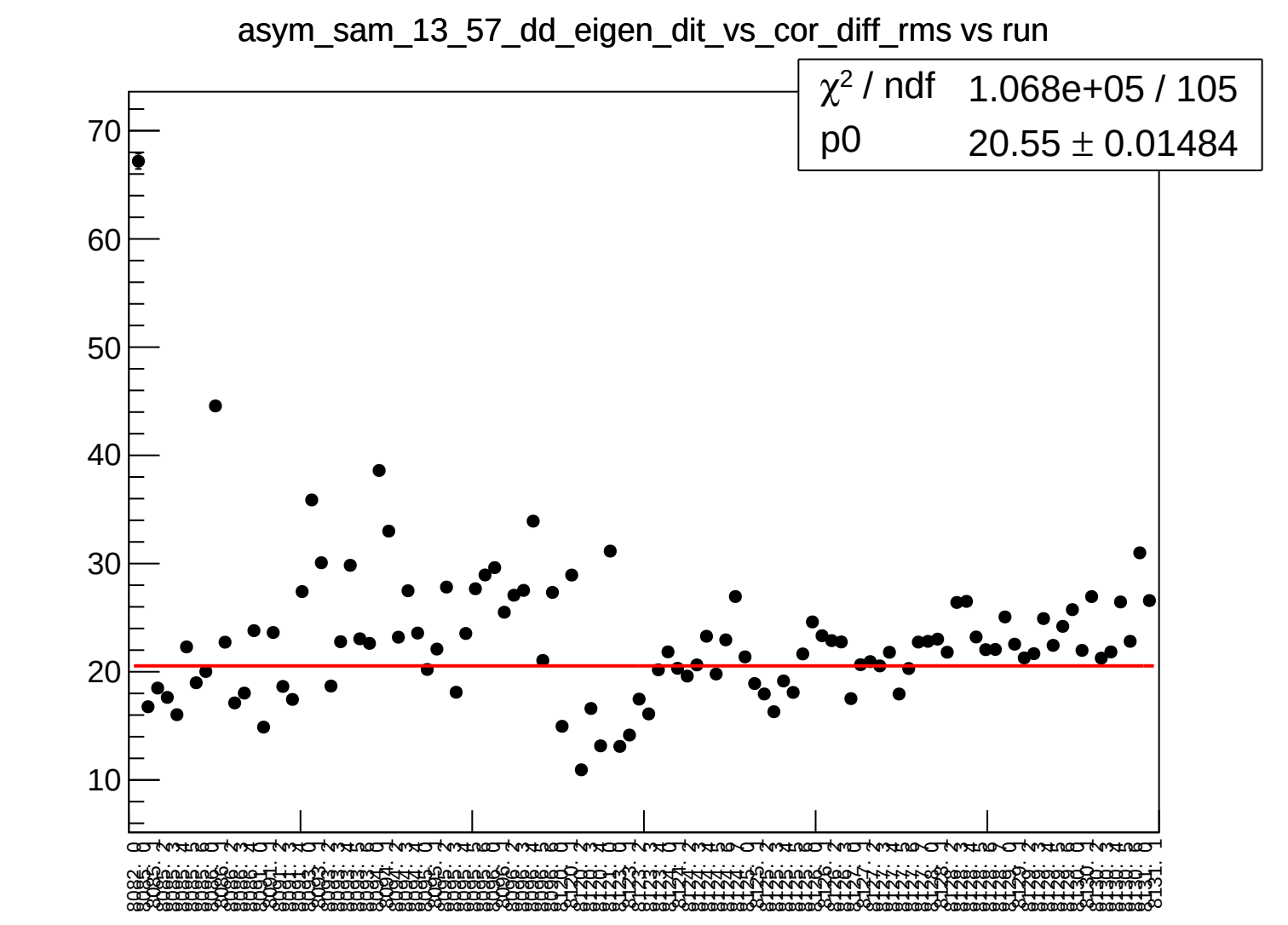

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.068e+05 / 105
p0 20.55 ± 0.01484
70
60
50
40
30
20
10

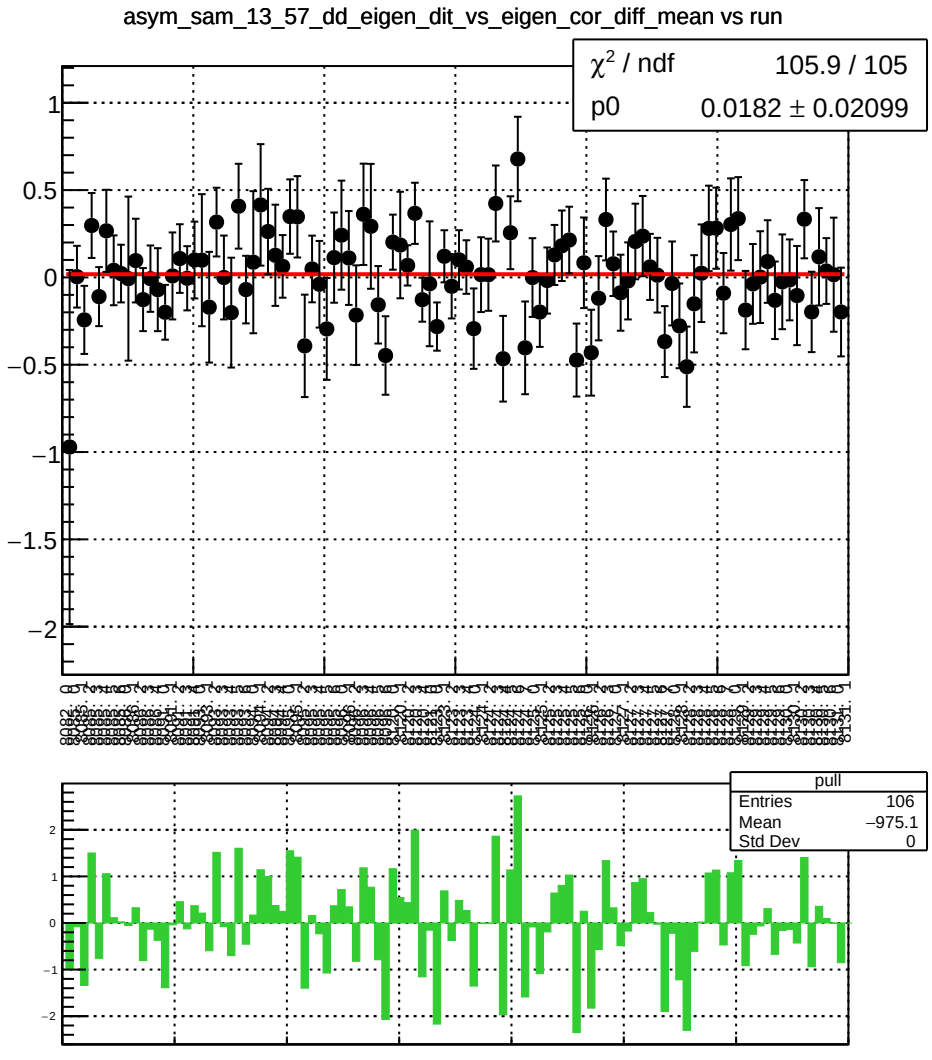

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 69.92 / 104
p0 6.403e−08 ± 2.019e−06
pull
Entries 105
Mean 685
Std Dev 0

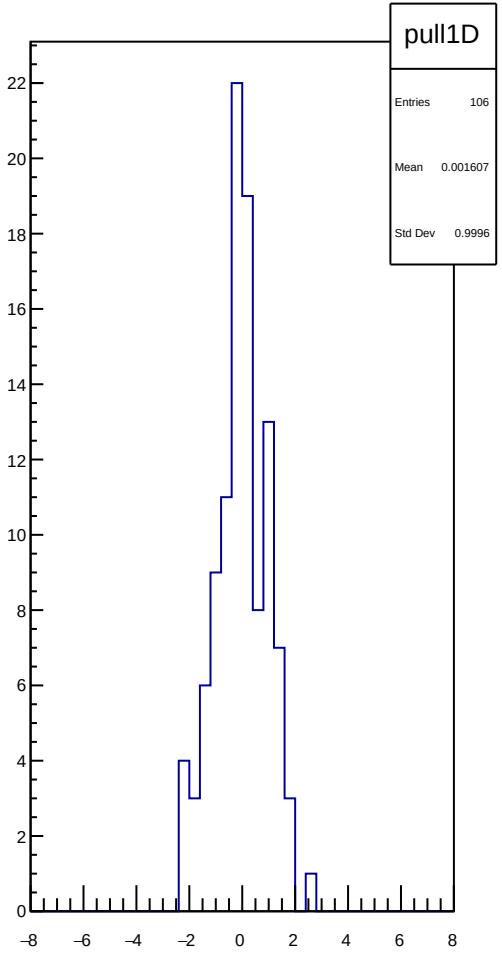

pull1D
Entries 105
Mean 0.003559
Std Dev 0.816

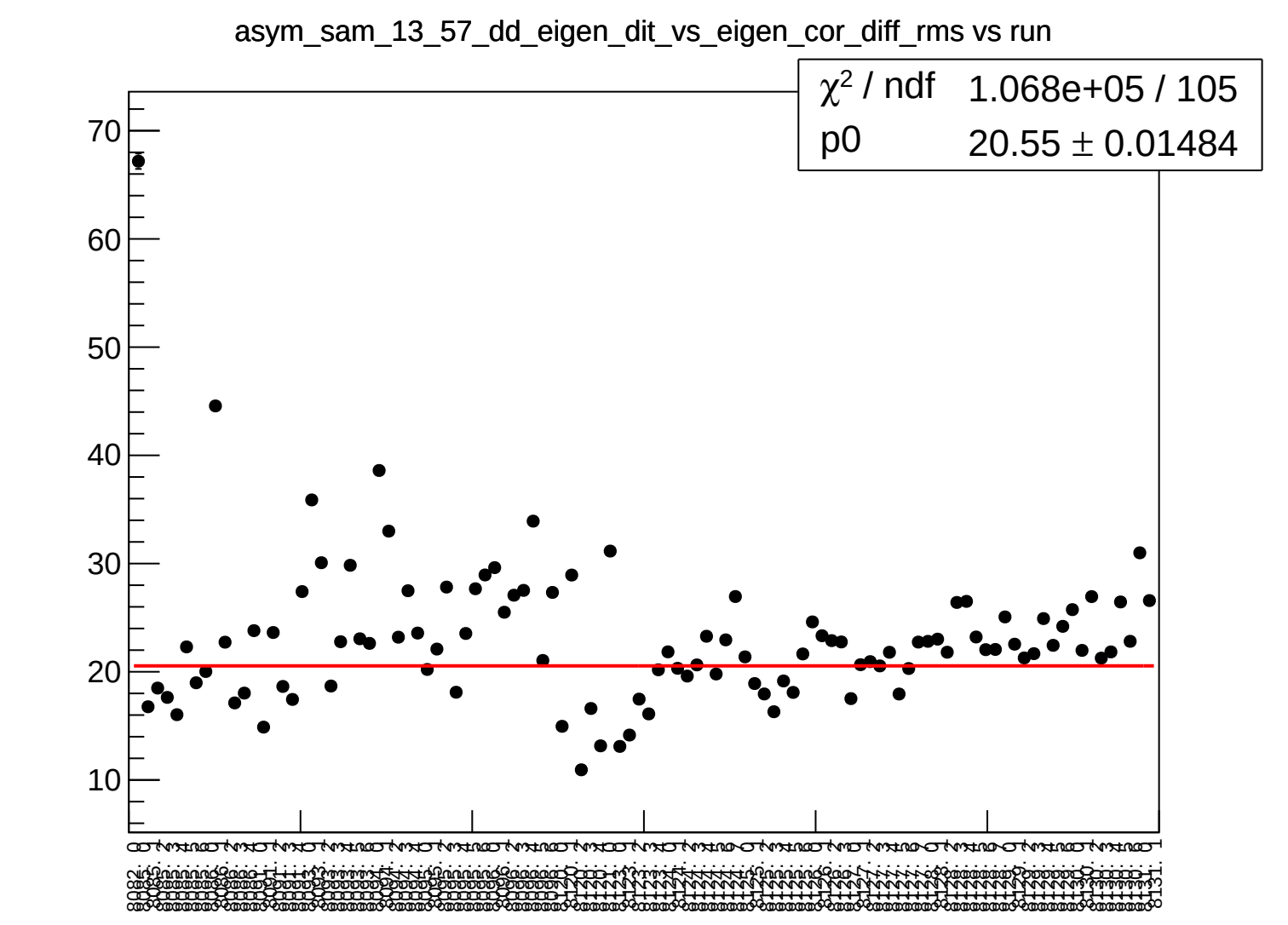

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.502e+05 / 104
p0 0.001949 ± 1.428e−06
0.0035
0.003
0.0025
0.002
0.0015

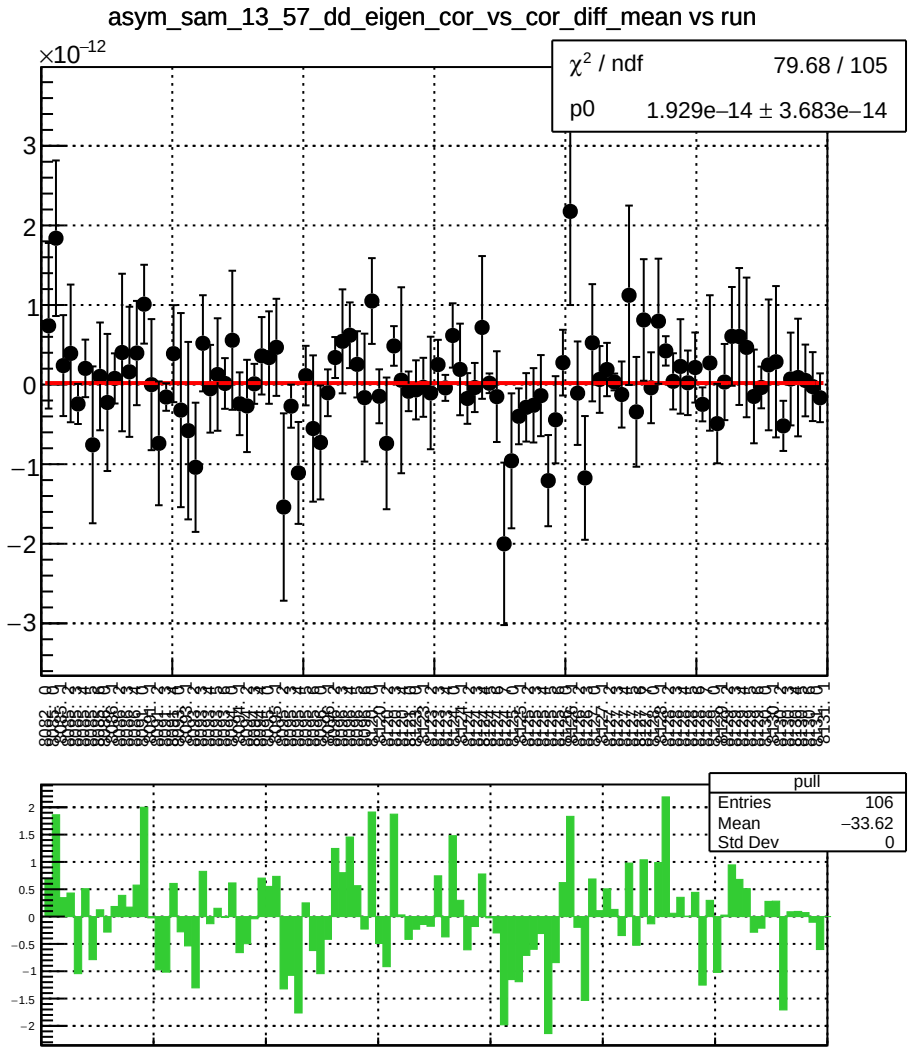

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 105.9 / 105
p0 0.0182 ± 0.02099
pull
Entries 106
Mean −975.1
Std Dev 0
pull1D
Entries 106
Mean 0.001607
Std Dev 0.9996

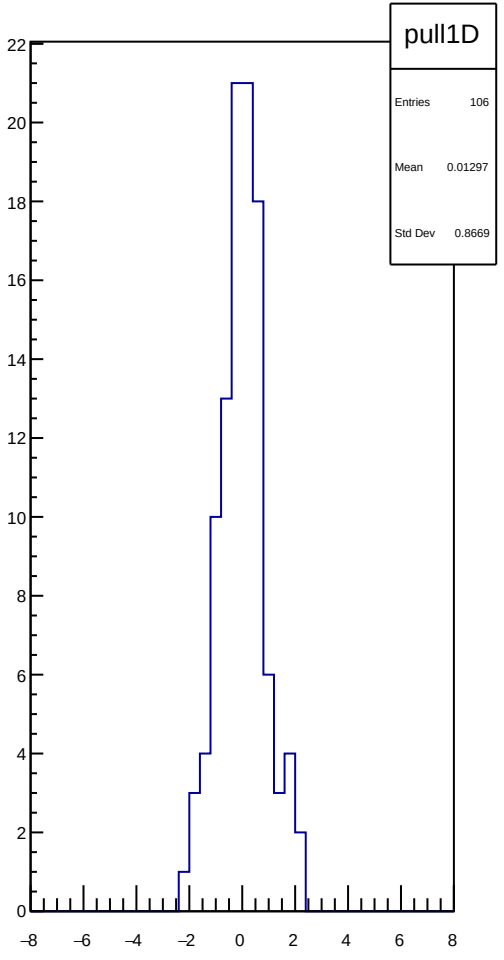

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.068e+05 / 105
p0 20.55 ± 0.01484
70
60
50
40
30
20
10

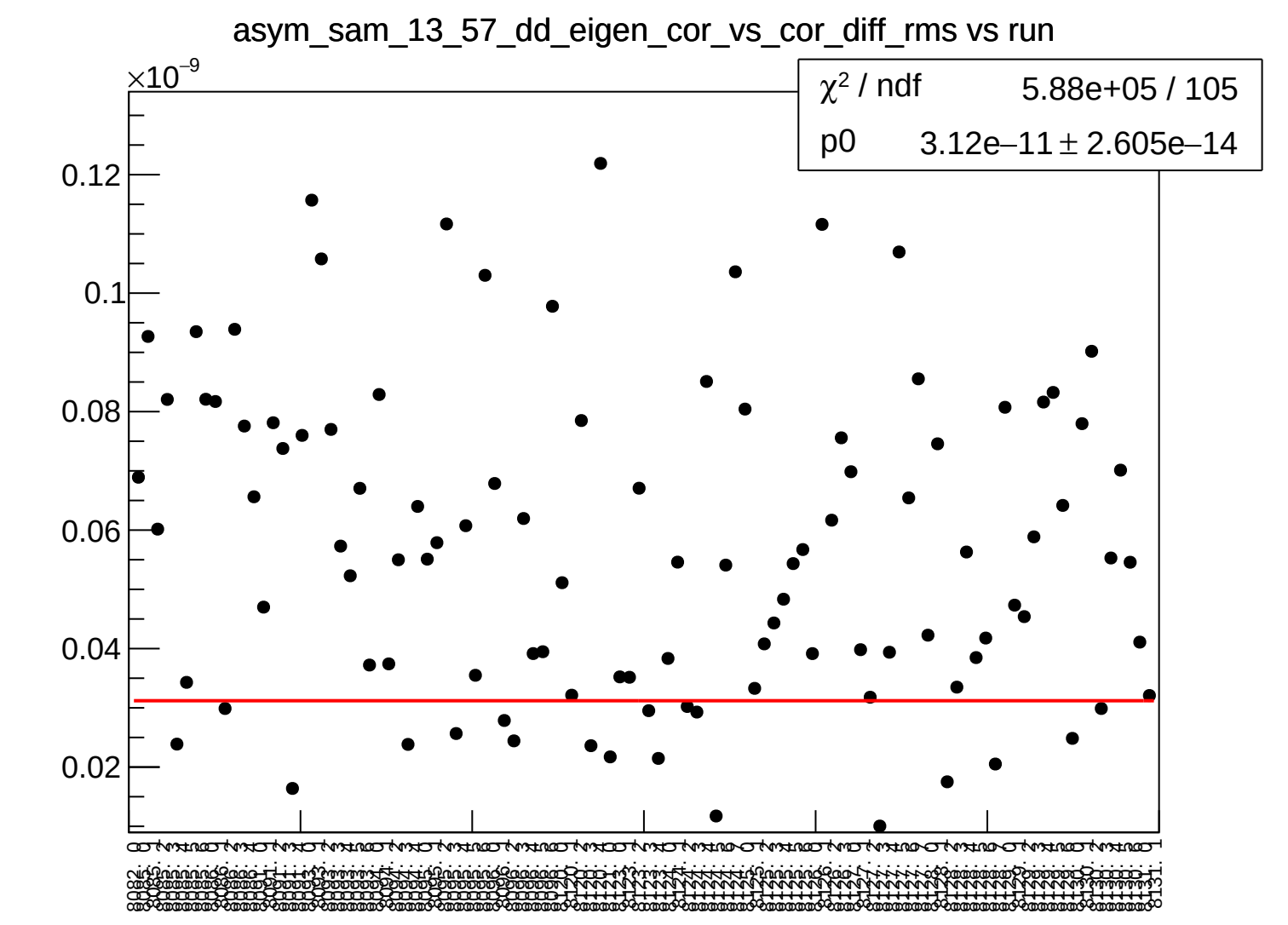

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.9 / 105
p0 0.0182 ± 0.02099
pull
Entries 106
Mean −975.1
Std Dev 0

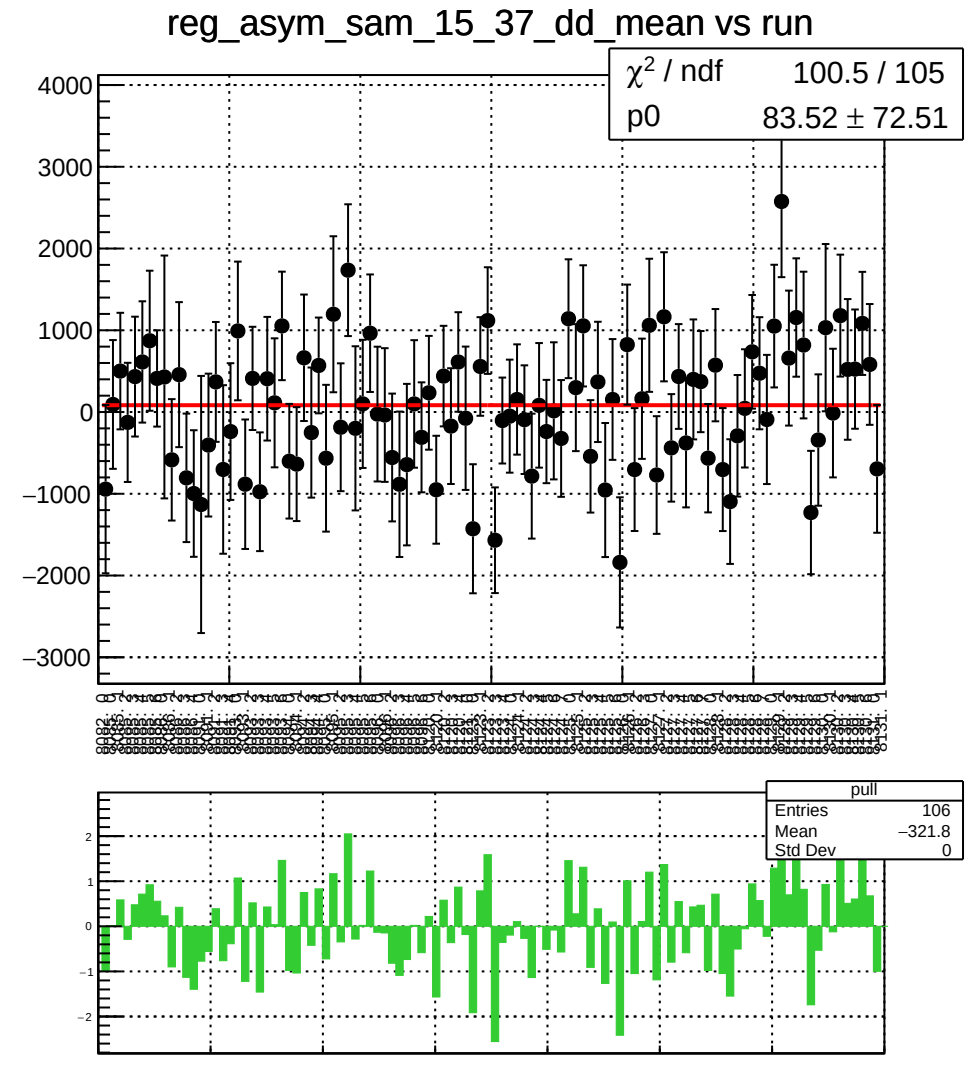

pull1D
Entries 106
Mean 0.001607
Std Dev 0.9996

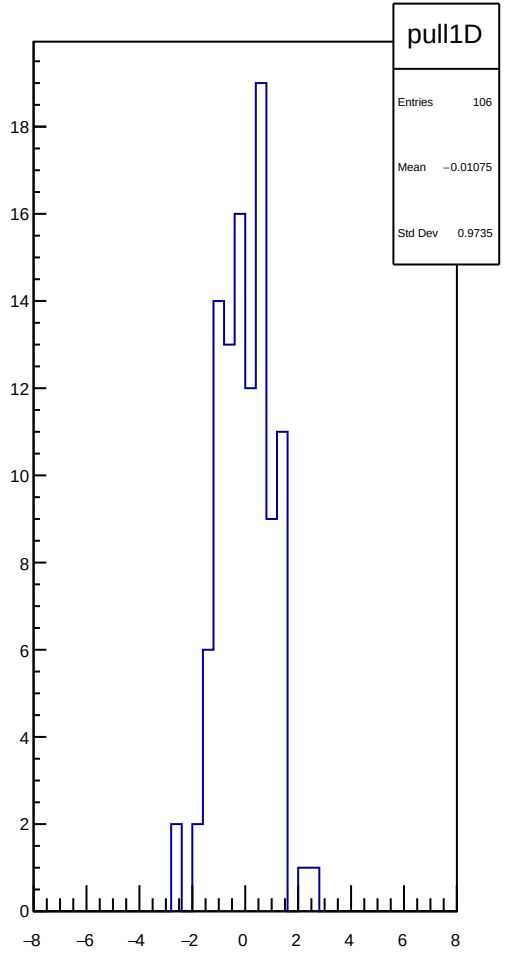

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.068e+05 / 105
p0 20.55 ± 0.01484
70
60
50
40
30
20
10

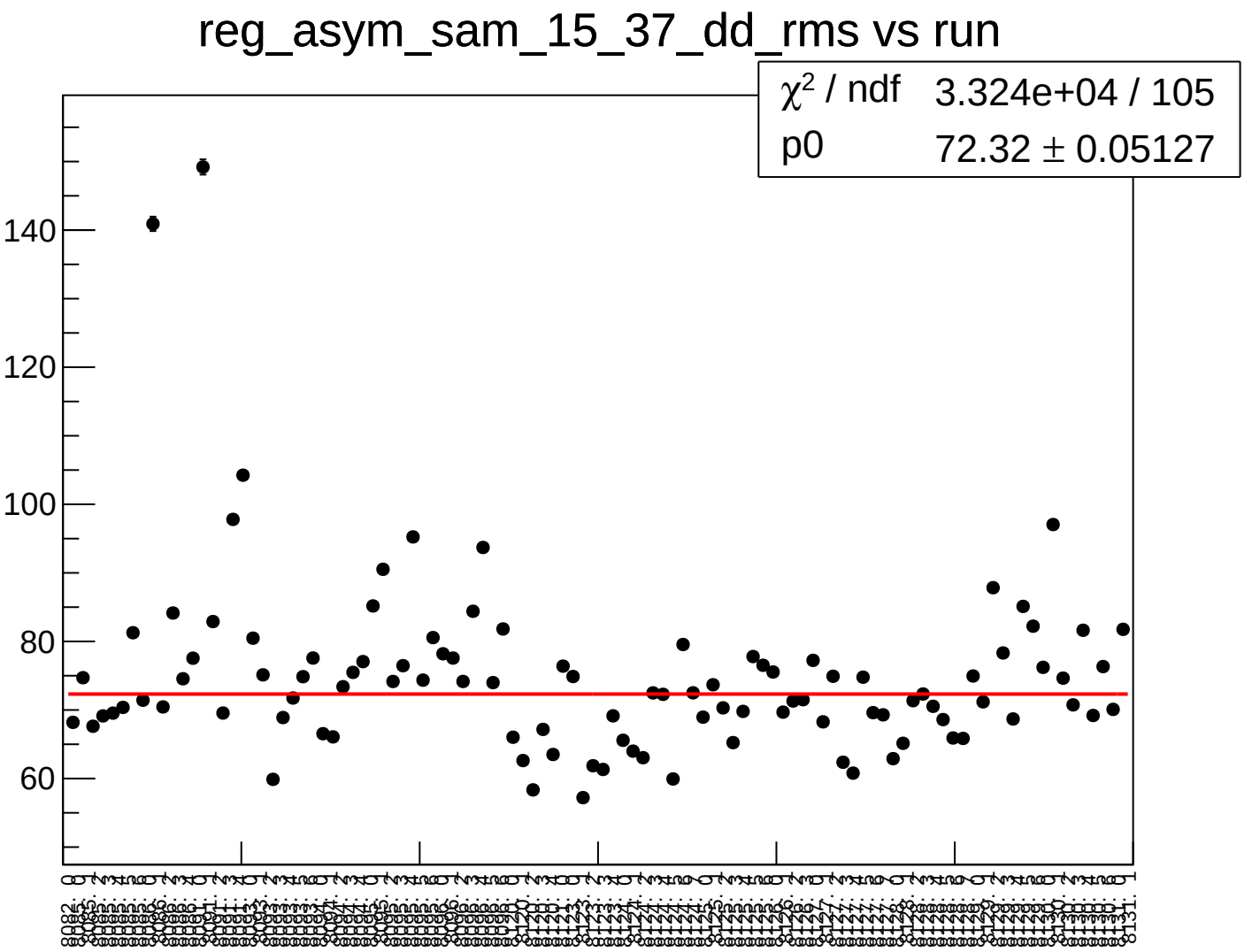

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.68 / 105
p0 1.929e−14 ± 3.683e−14
pull
Entries 106
Mean −33.62
Std Dev 0

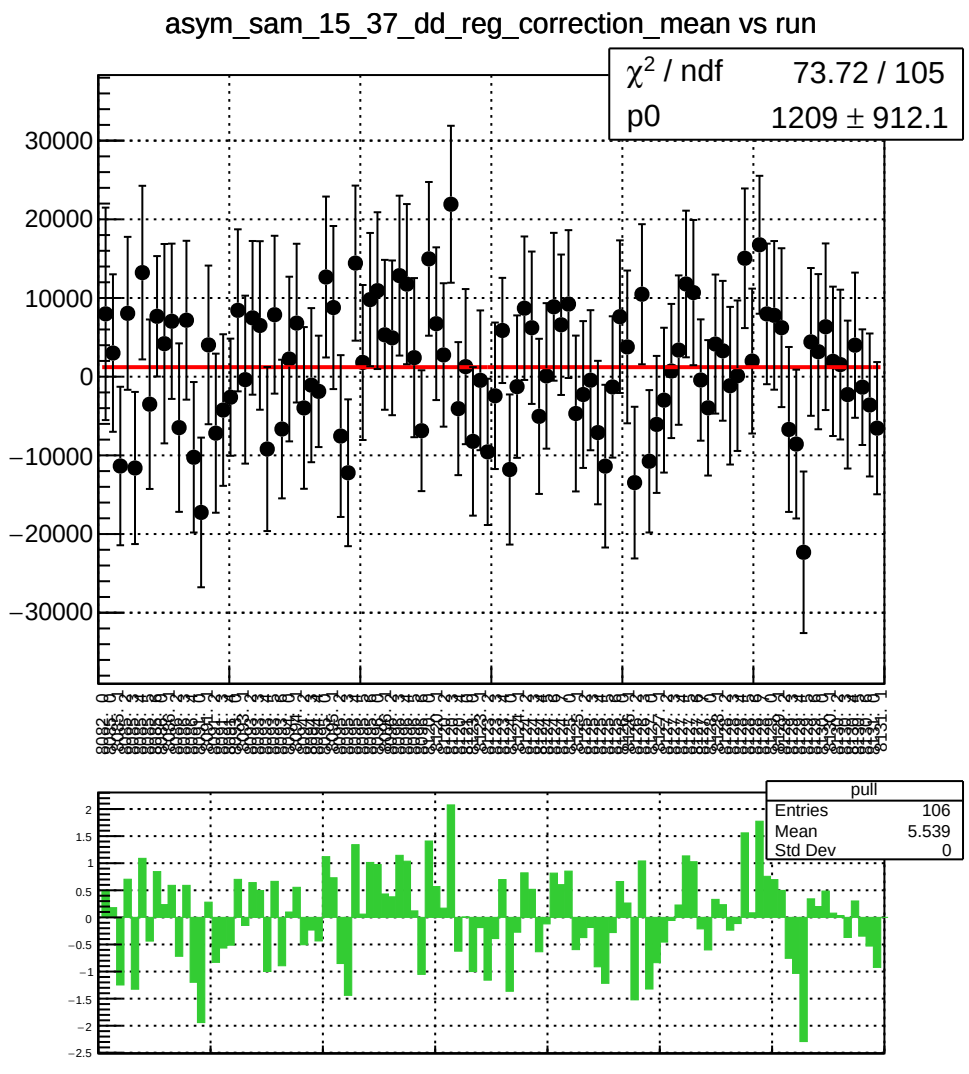

pull1D
Entries 106
Mean 0.01297
Std Dev 0.8669

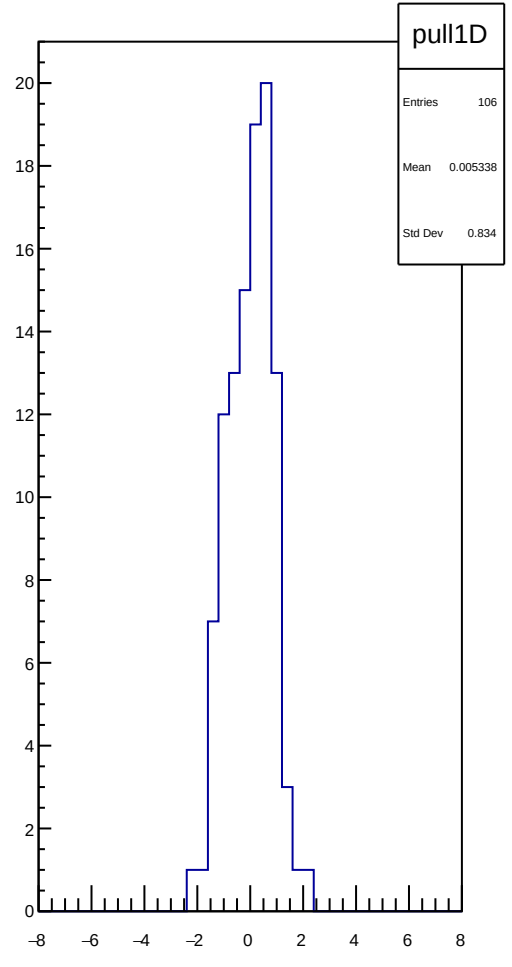

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.88e+05 / 105
p0 3.12e−11 ± 2.605e−14
0.12
0.1
0.08
0.06
0.04
0.02

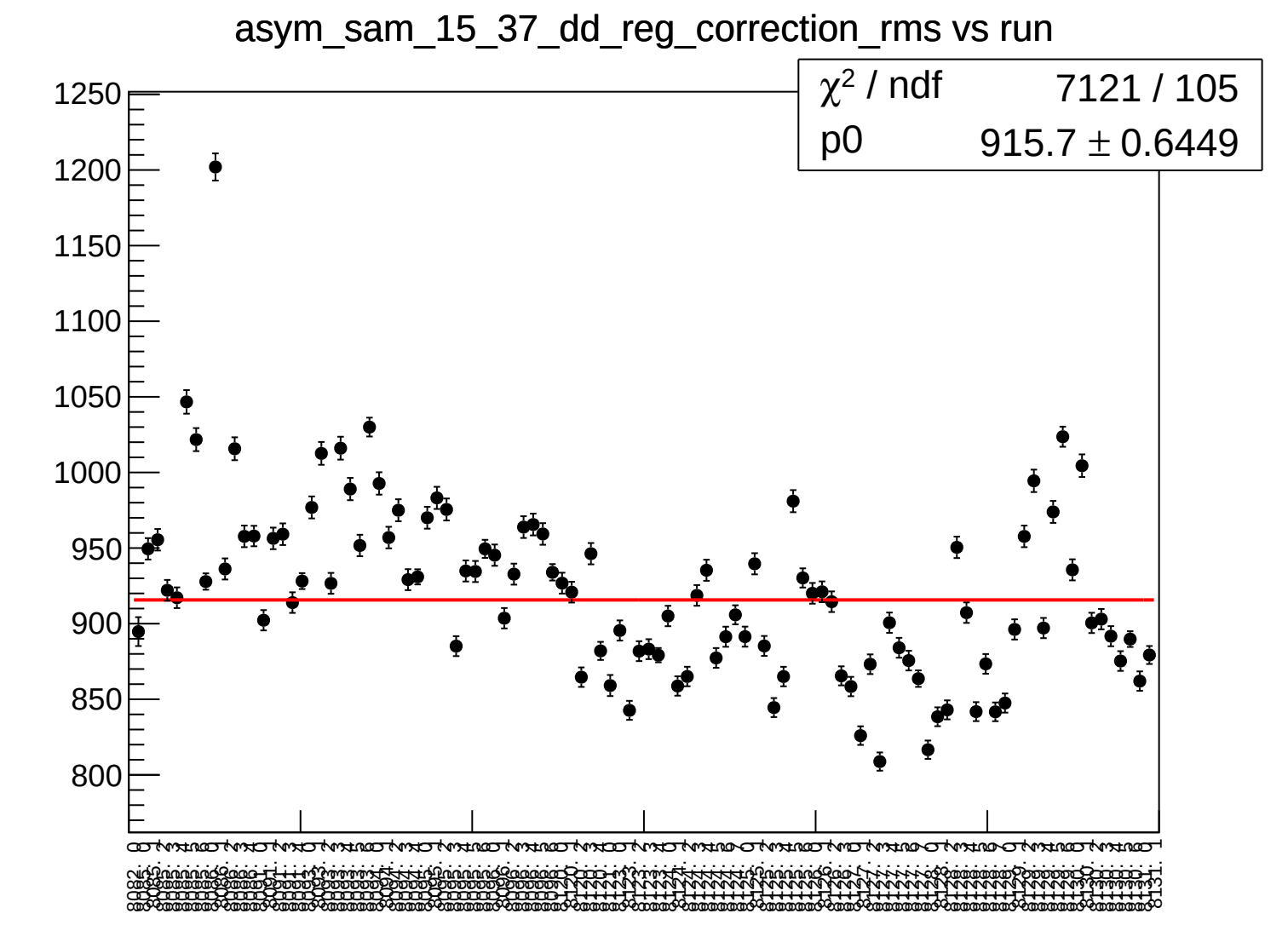

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 100.5 / 105
p0 83.52 ± 72.51
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 106
Mean −321.8
Std Dev 0
2
1
0
−1
−2

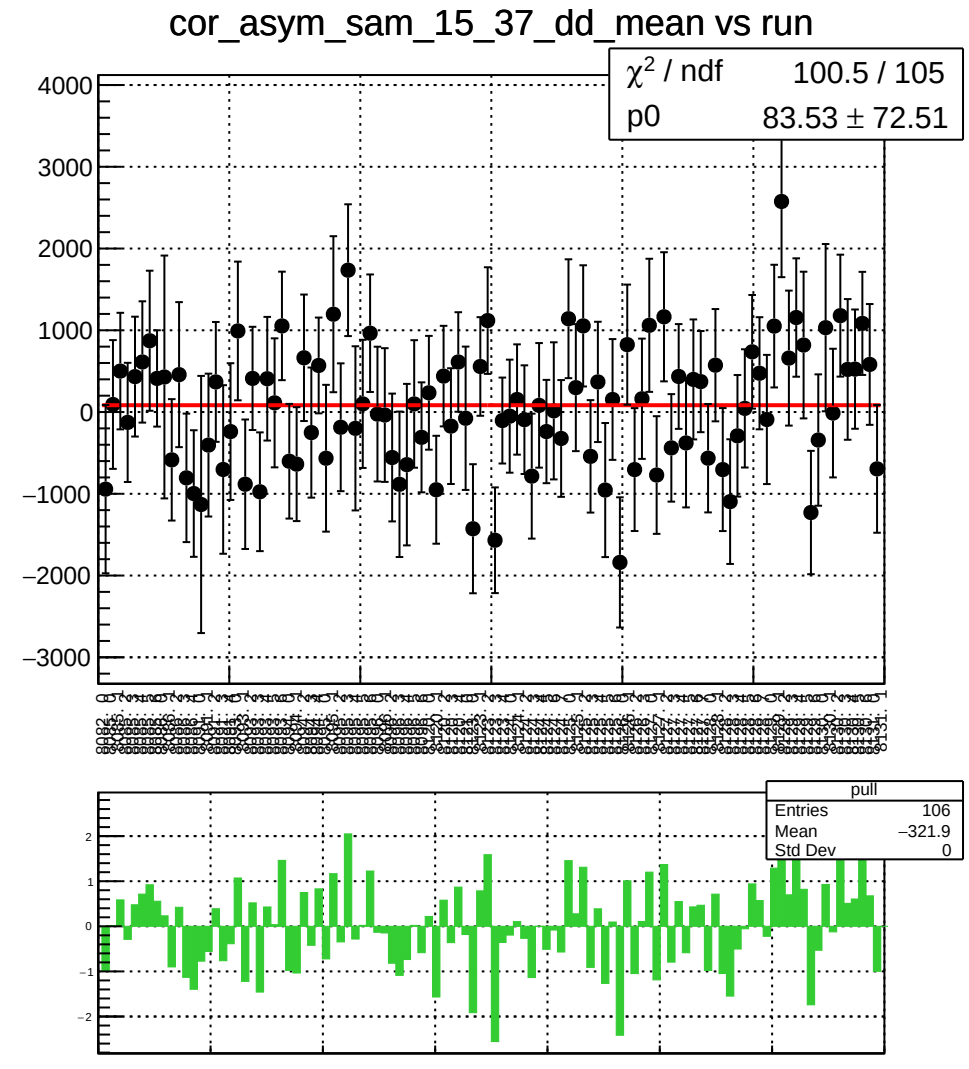

pull1D
Entries 106
Mean −0.01075
Std Dev 0.9735
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

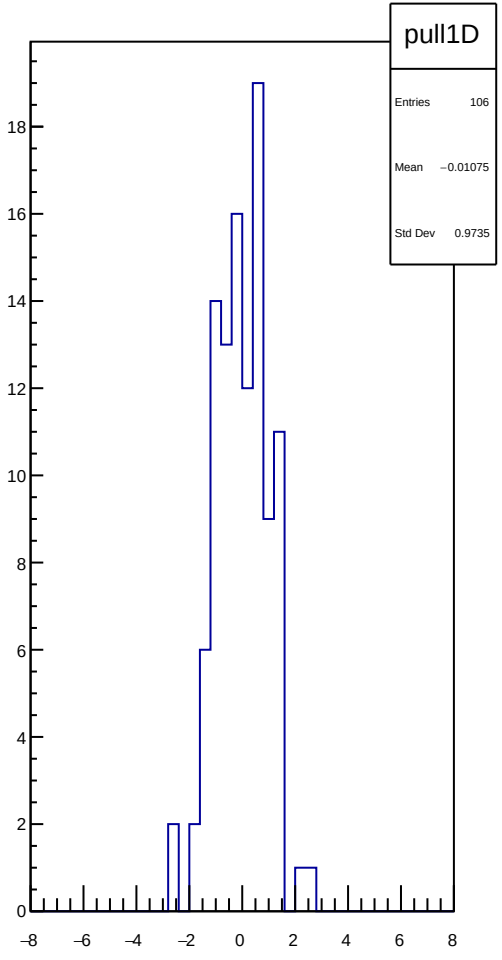

reg_asym_sam_15_37_dd_rms vs run
χ² / ndf 3.324e+04 / 105
p0 72.32 ± 0.05127
140
120
100
80
60

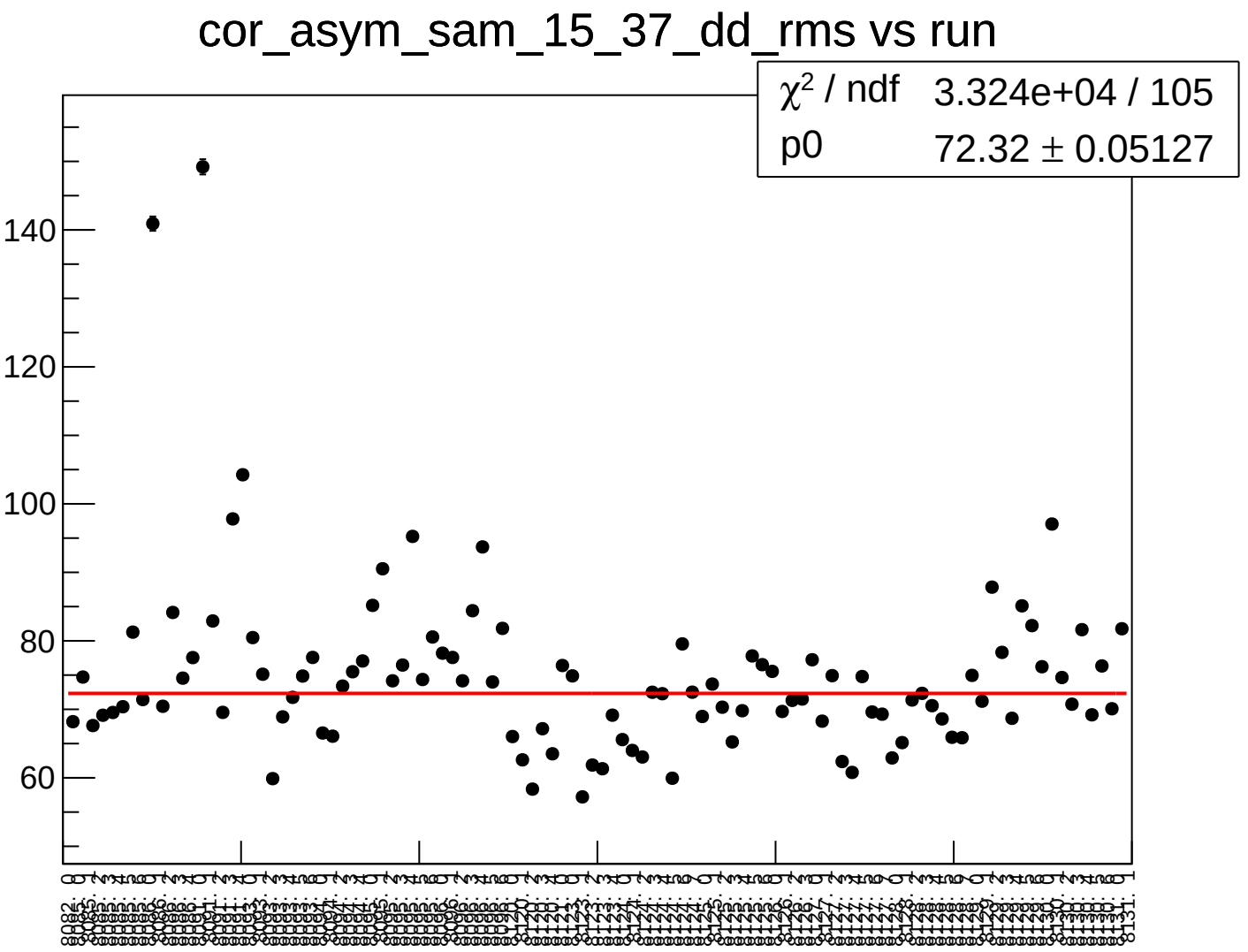

asym_sam_15_37_dd_reg_correction_mean vs run
χ² / ndf 73.72 / 105
p0 1209 ± 912.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 106
Mean 5.539
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

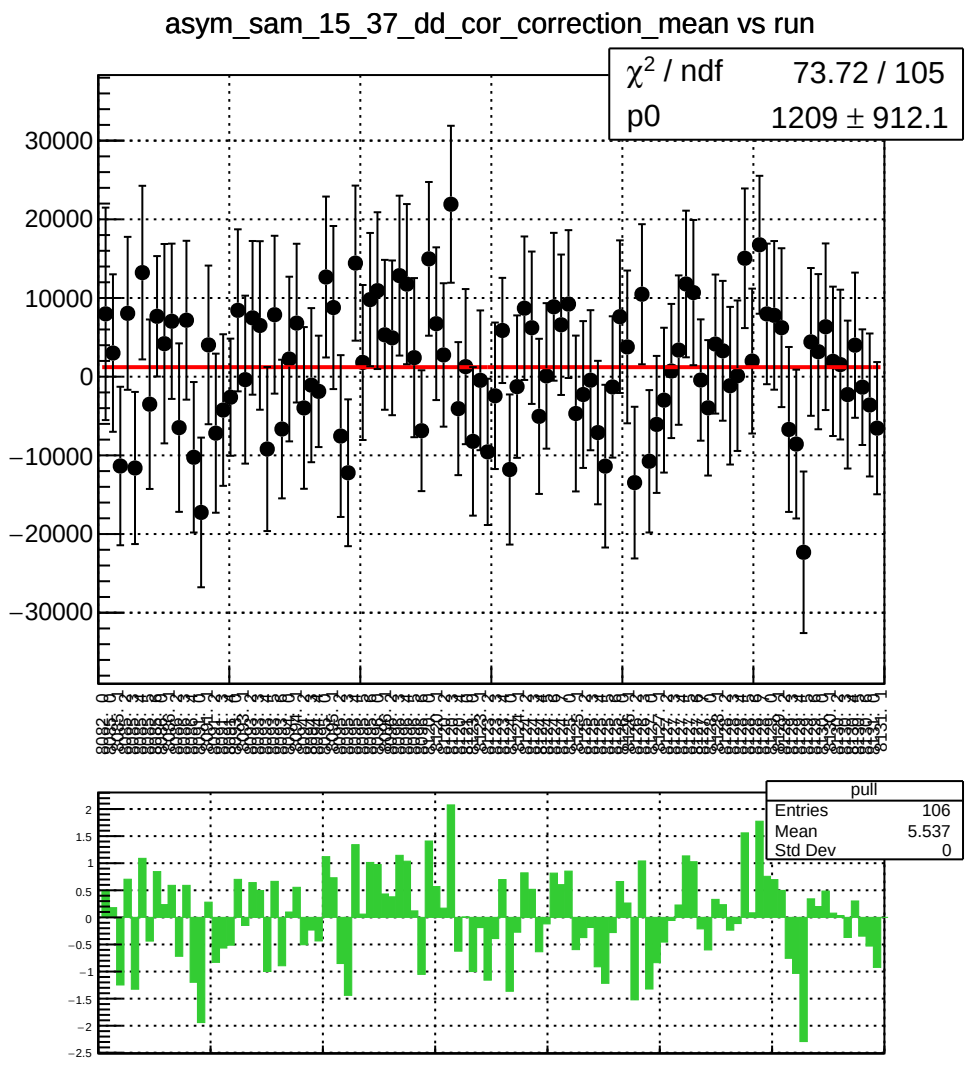

pull1D
Entries 106
Mean 0.005338
Std Dev 0.834
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

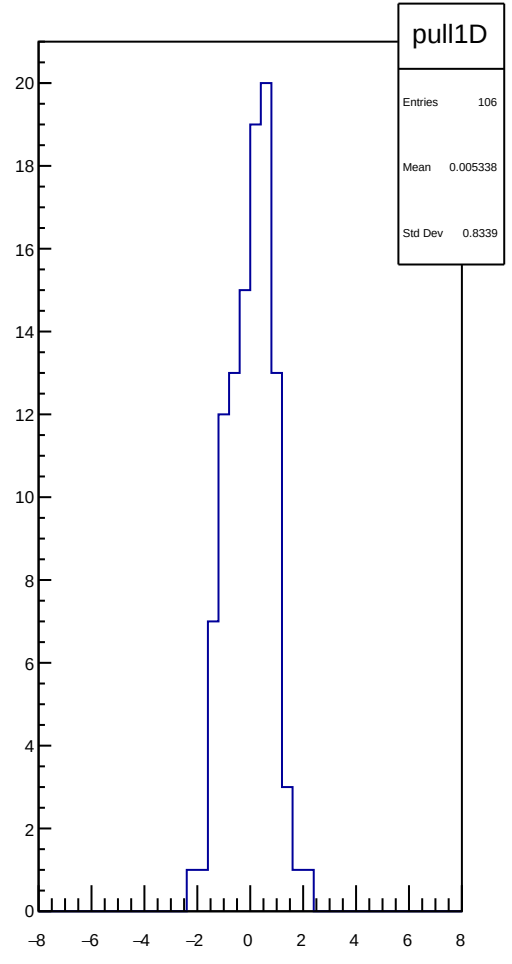

asym_sam_15_37_dd_reg_correction_rms vs run
χ² / ndf 7121 / 105
p0 915.7 ± 0.6449
1250
1200
1150
1100
1050
1000
950
900
850
800

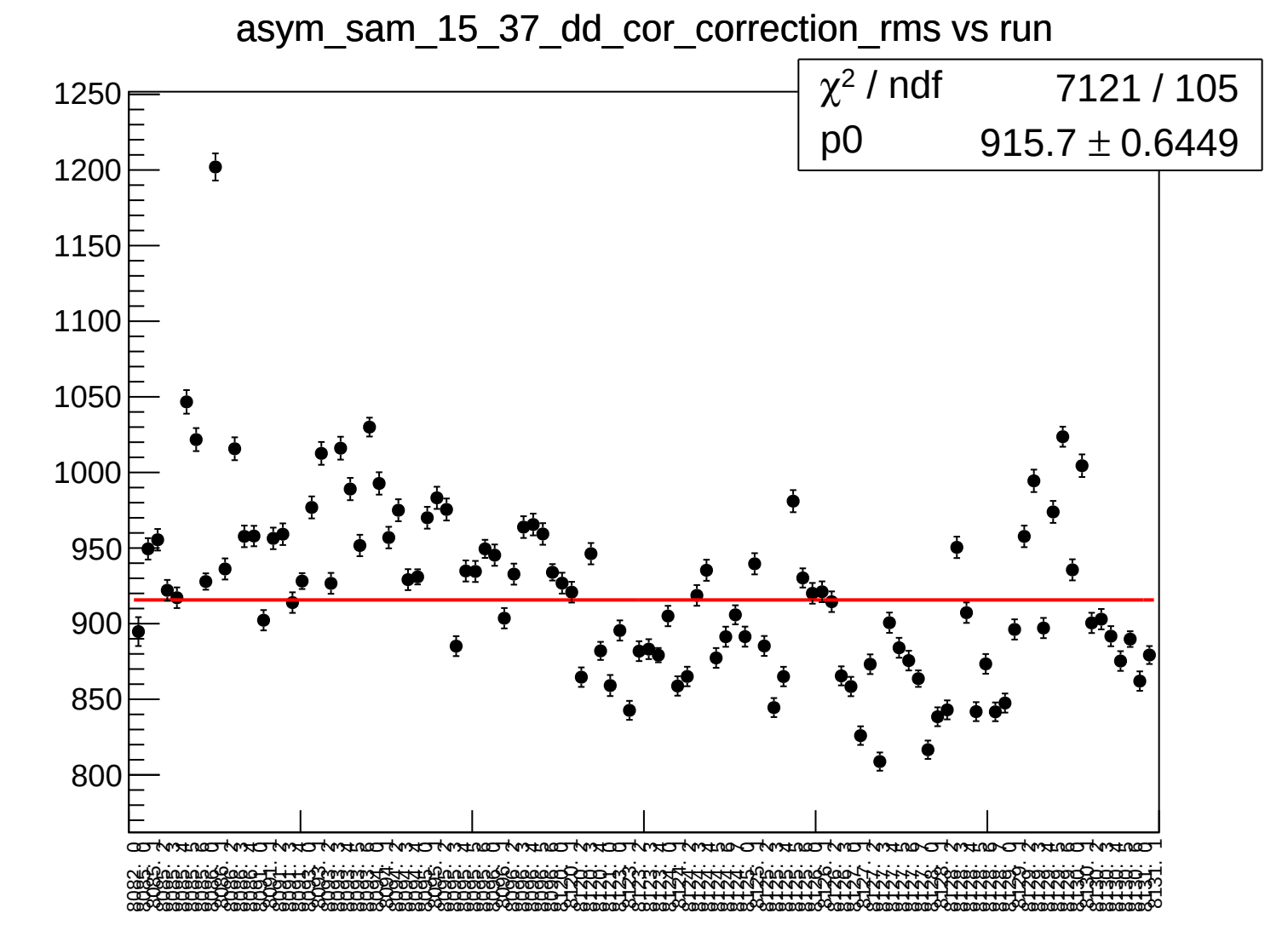

cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 100.5 / 105
p0 83.53 ± 72.51
pull
Entries 106
Mean −321.9
Std Dev 0

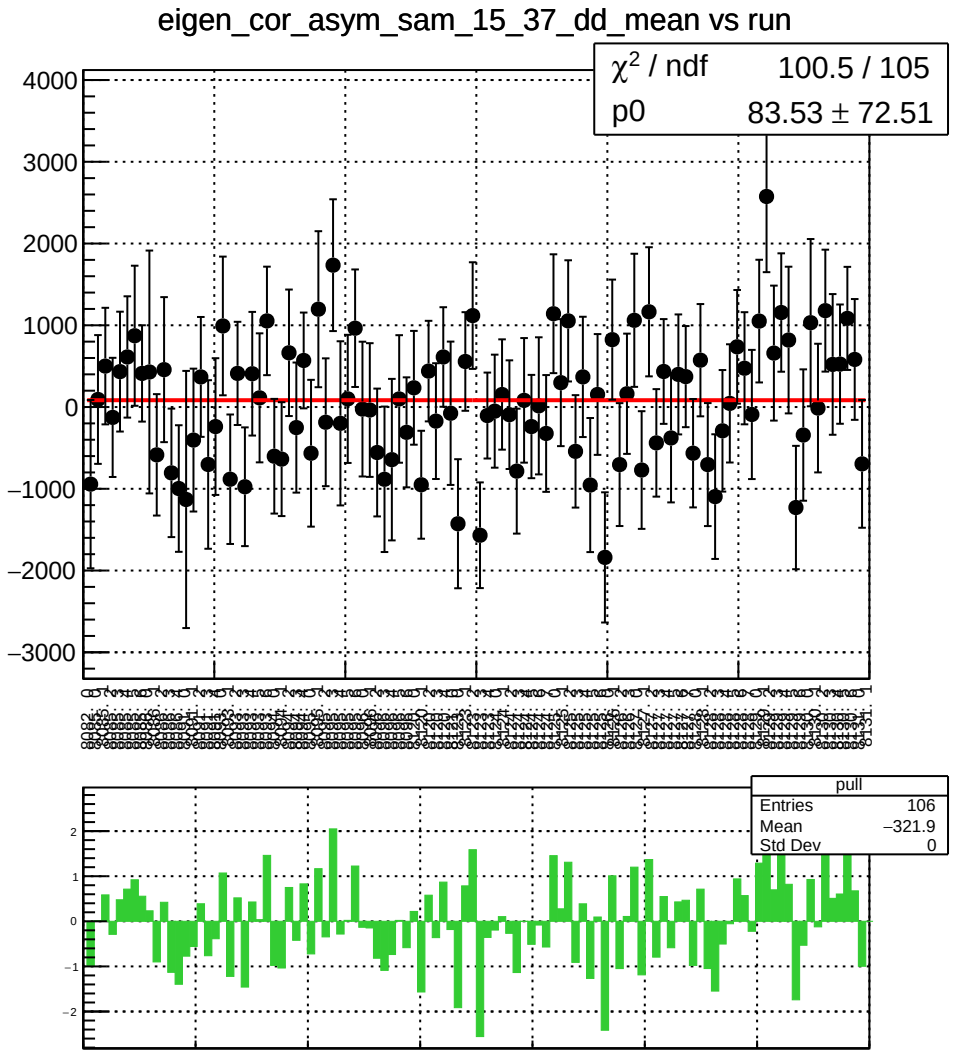

pull1D
Entries 106
Mean −0.01075
Std Dev 0.9735

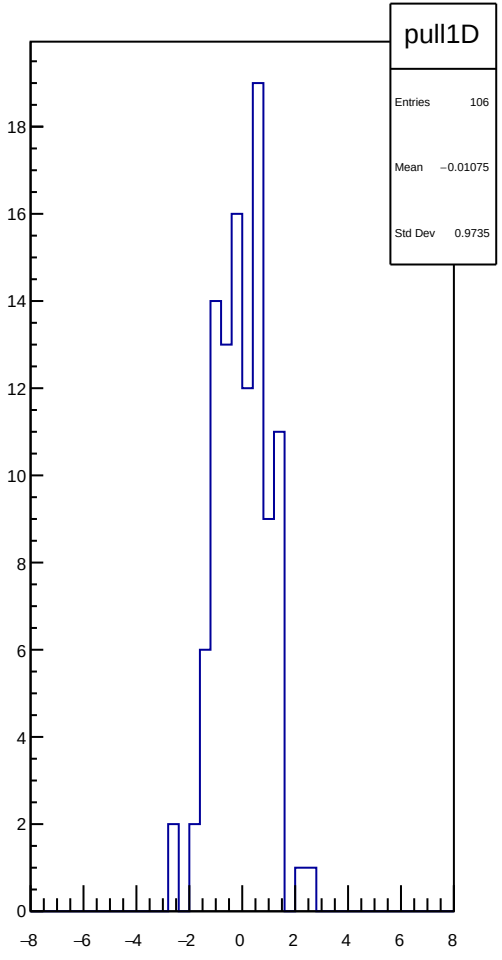

cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 3.324e+04 / 105
p0 72.32 ± 0.05127
140
120
100
80
60

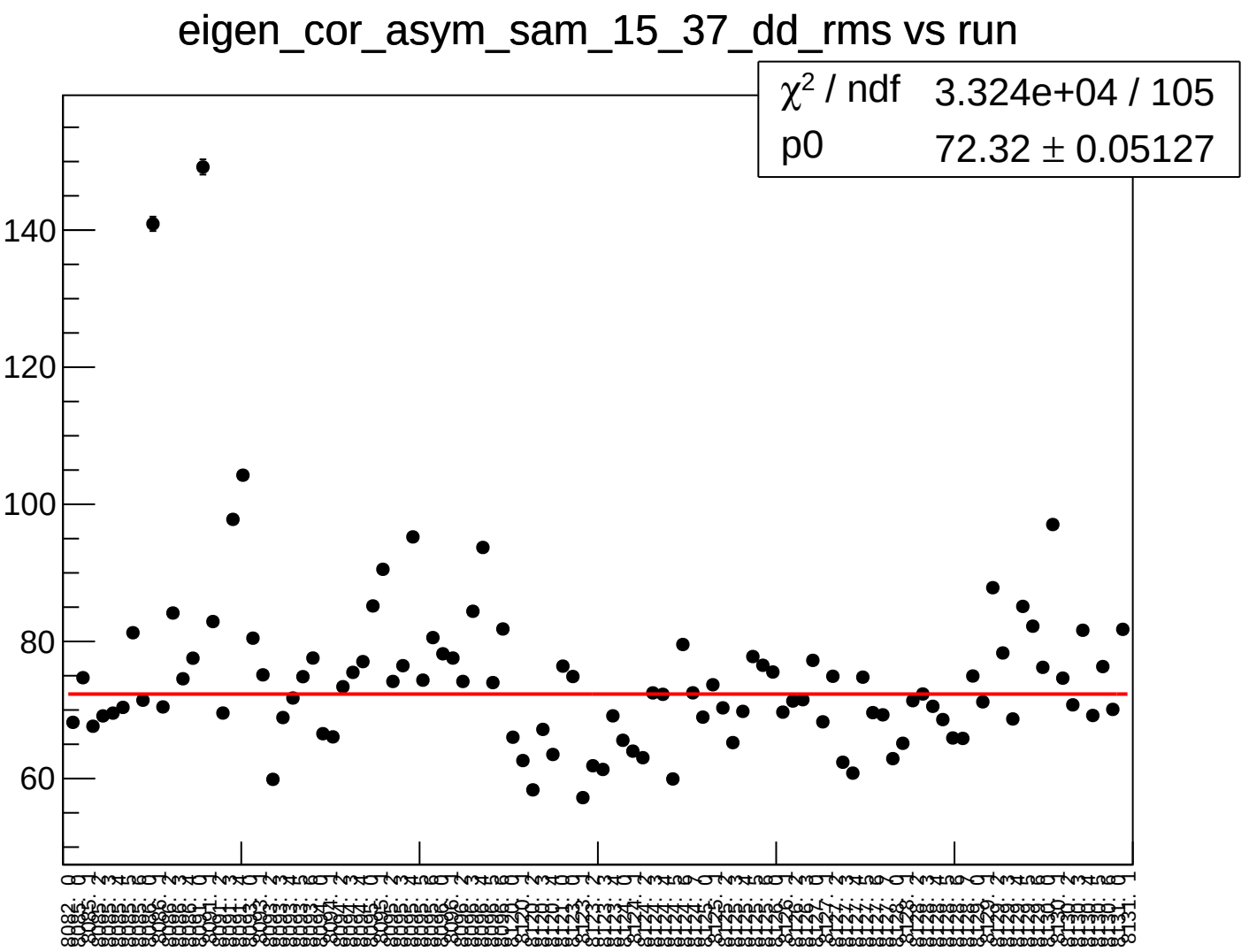

asym_sam_15_37_dd_cor_correction_mean vs run
χ² / ndf 73.72 / 105
p0 1209 ± 912.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 106
Mean 5.537
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

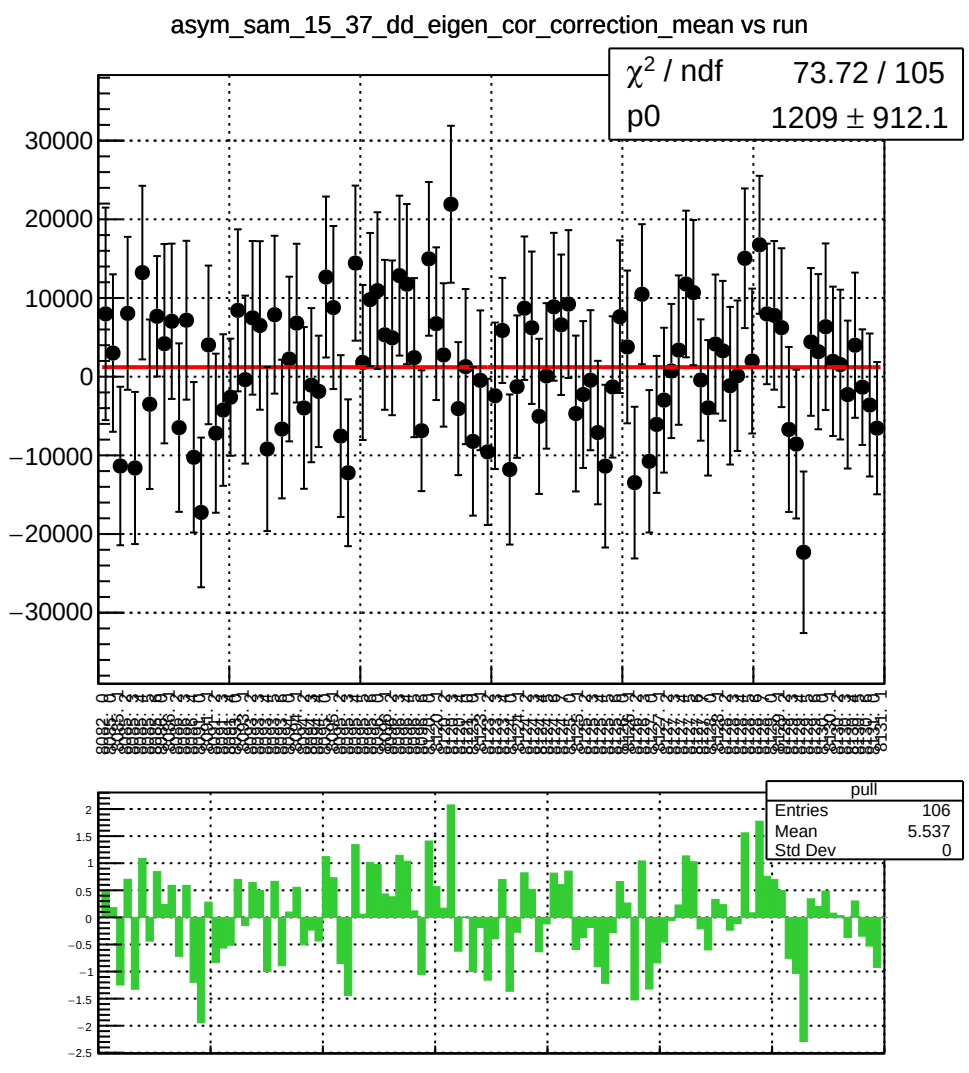

pull1D
Entries 106
Mean 0.005338
Std Dev 0.8339
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

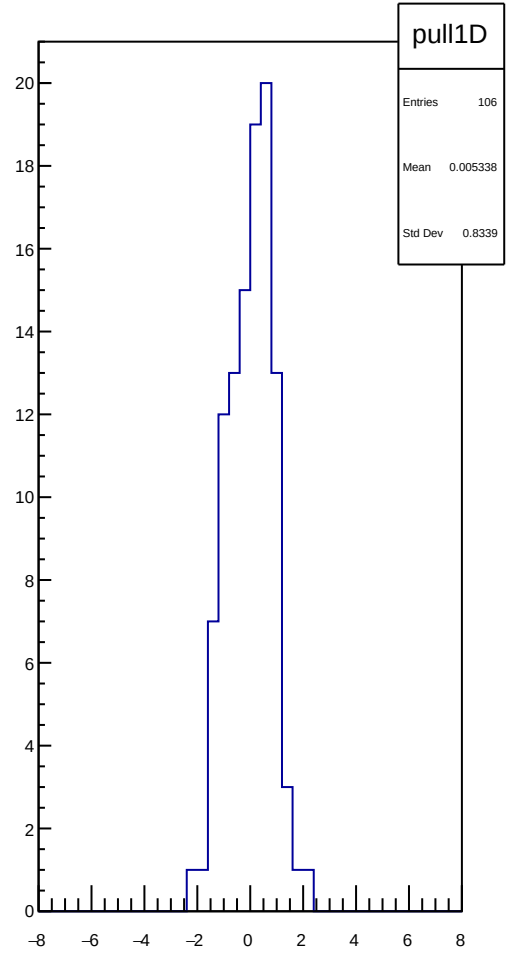

asym_sam_15_37_dd_cor_correction_rms vs run
χ² / ndf 7121 / 105
p0 915.7 ± 0.6449
1250
1200
1150
1100
1050
1000
950
900
850
800

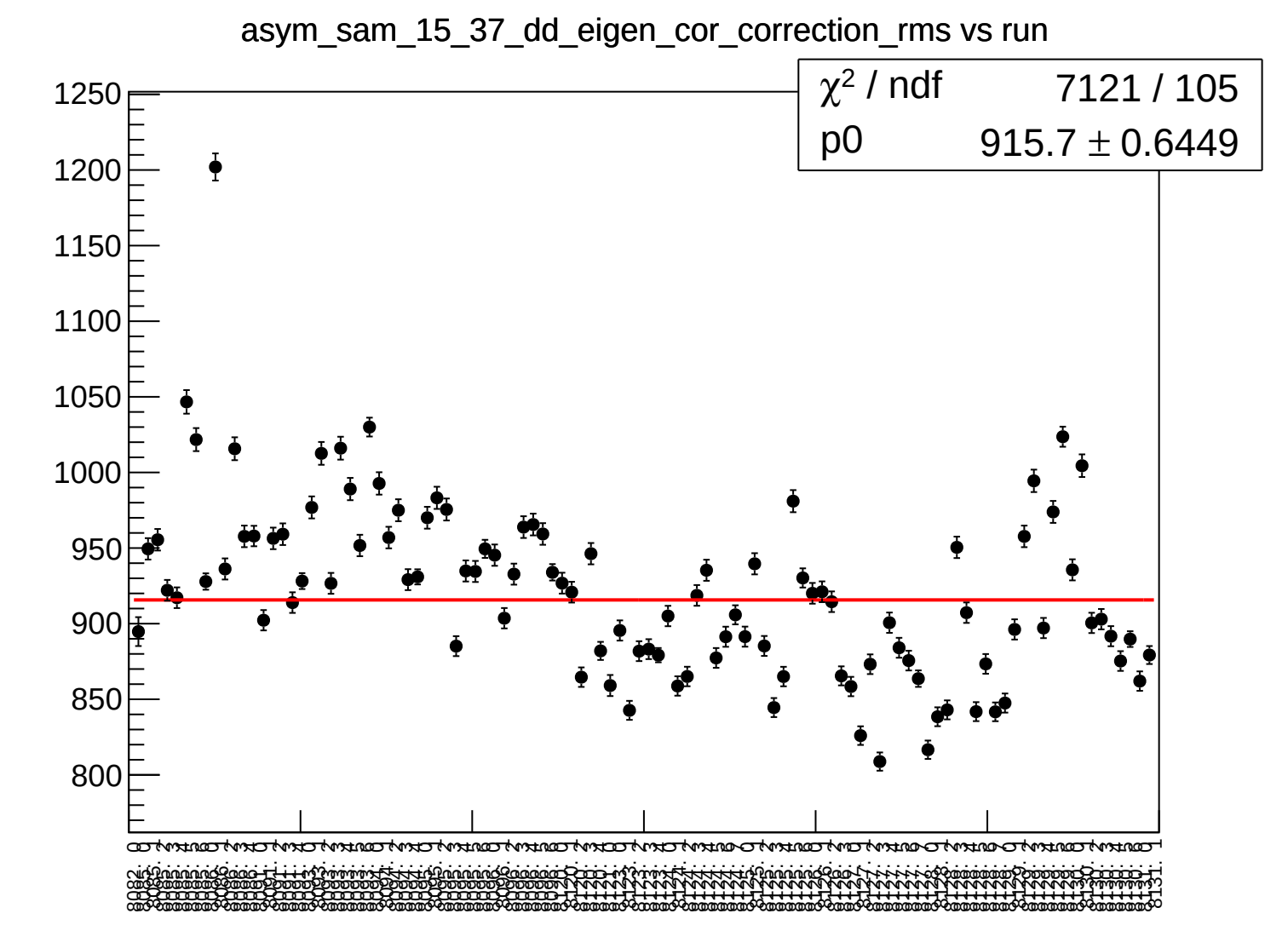

eigen_cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 100.5 / 105
p0 83.53 ± 72.51
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 106
Mean −321.9
Std Dev 0
2
1
0
−1
−2

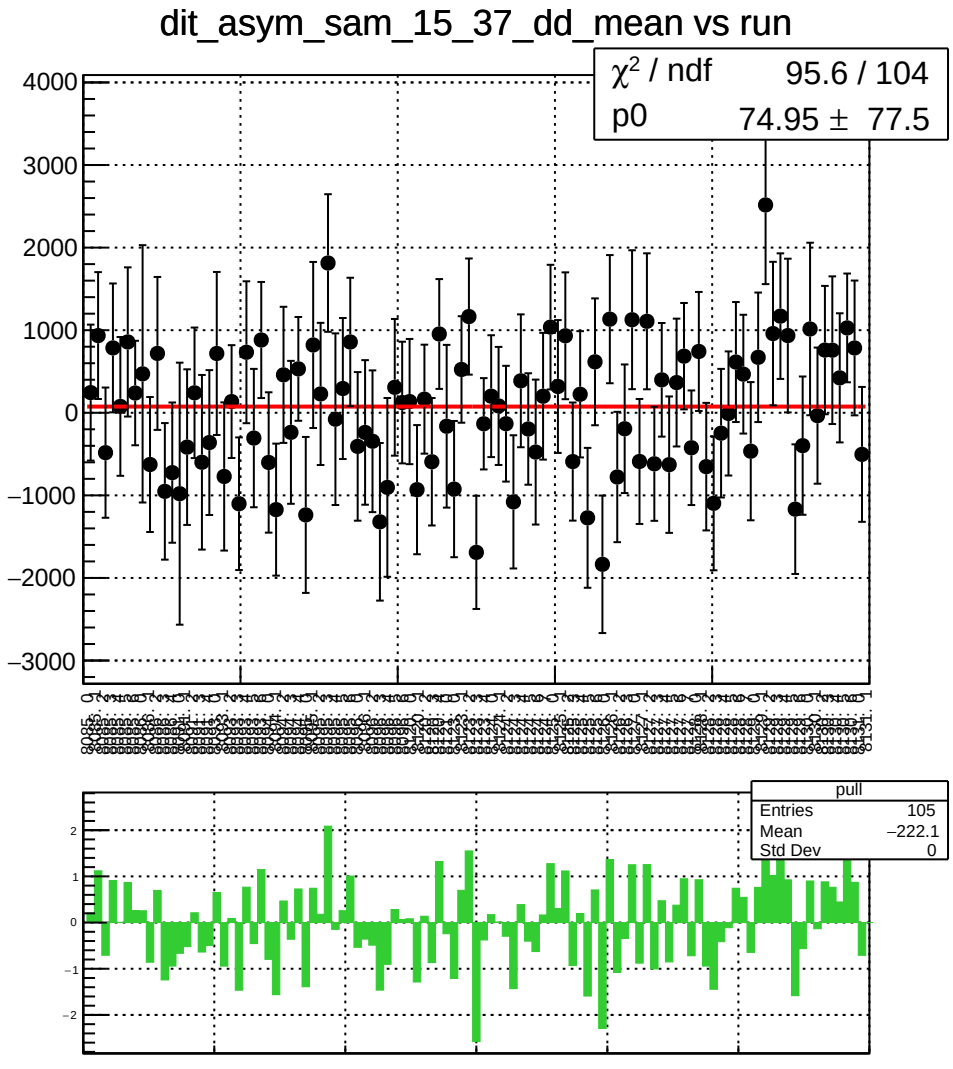

pull1D
Entries 106
Mean −0.01075
Std Dev 0.9735
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

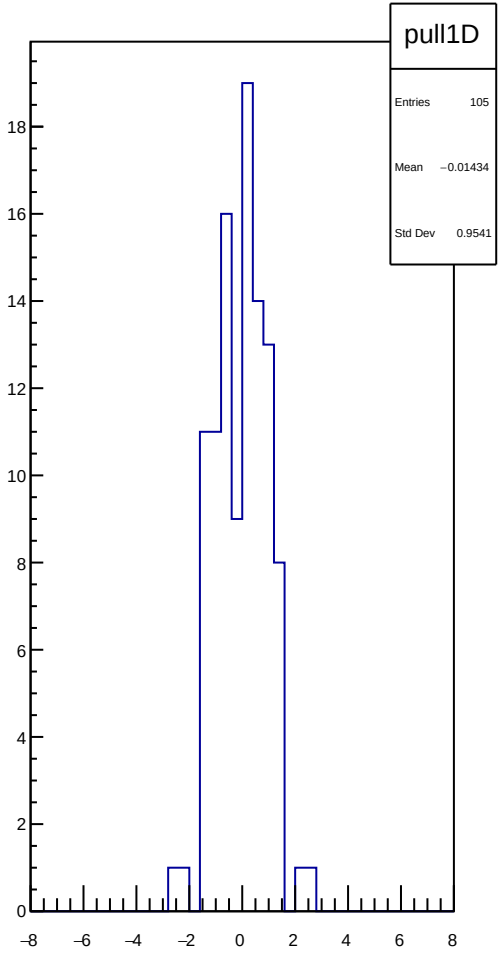

eigen_cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 3.324e+04 / 105
p0 72.32 ± 0.05127
140
120
100
80
60

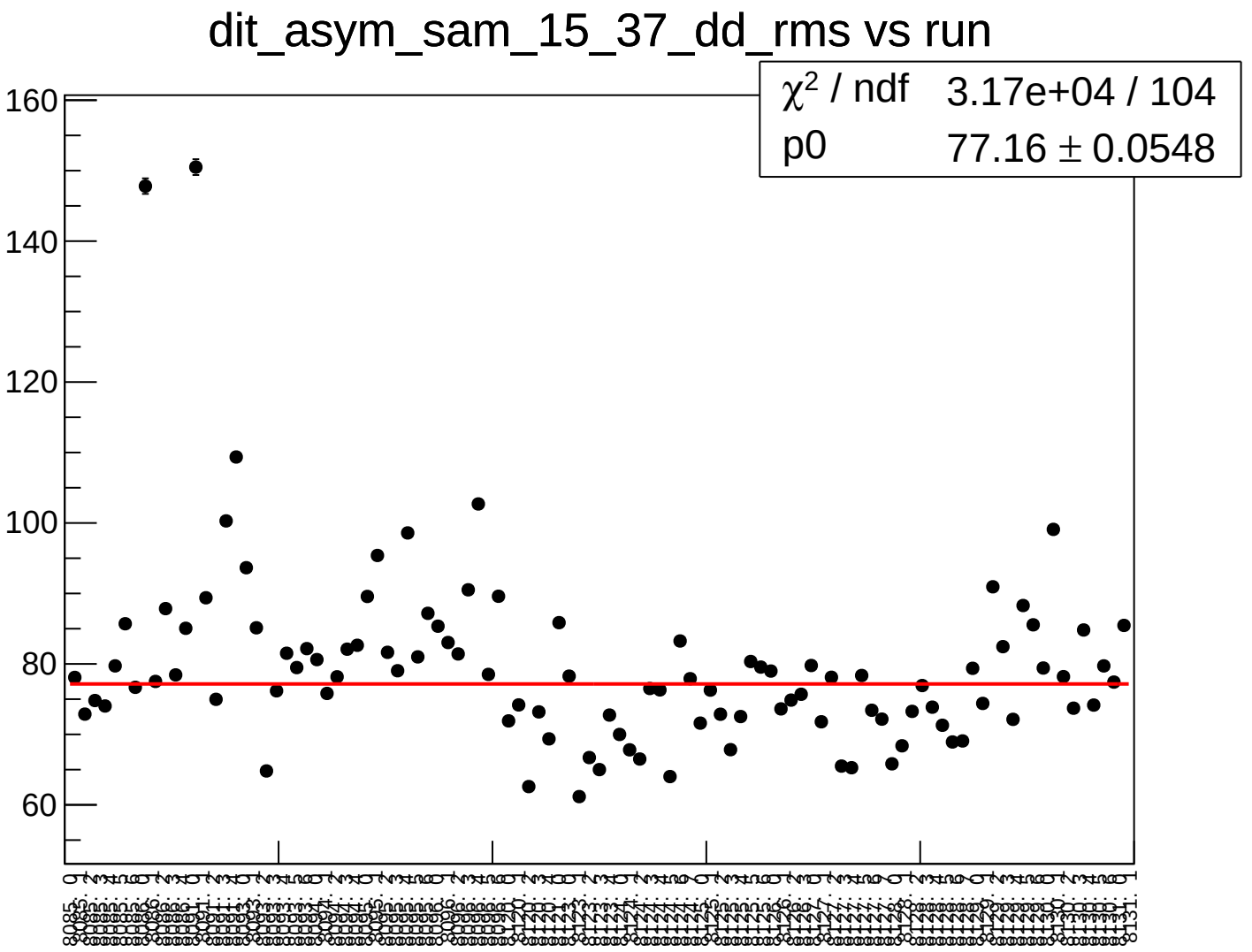

asym_sam_15_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 73.72 / 105
p0 1209 ± 912.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 106
Mean 5.537
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

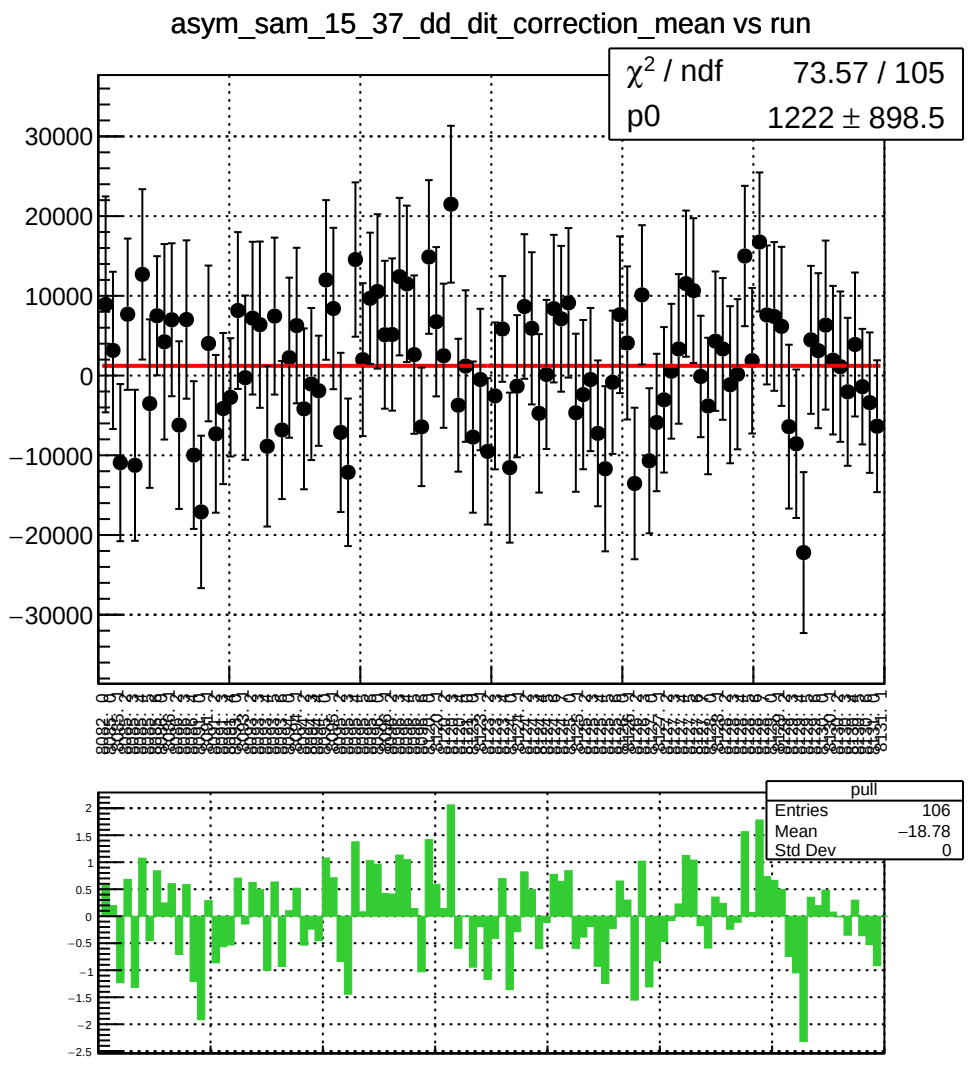

pull1D
Entries 106
Mean 0.005338
Std Dev 0.8339
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

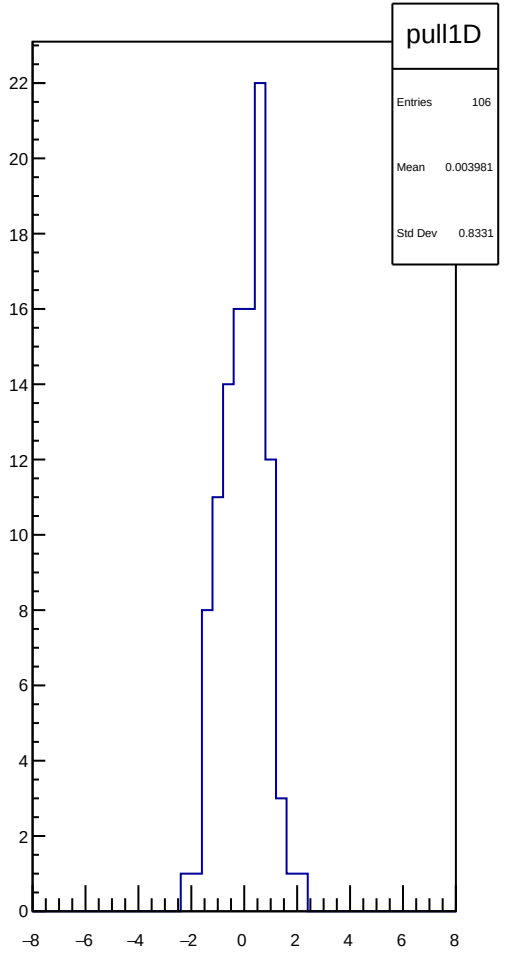

asym_sam_15_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 7121 / 105
p0 915.7 ± 0.6449
1250
1200
1150
1100
1050
1000
950
900
850
800

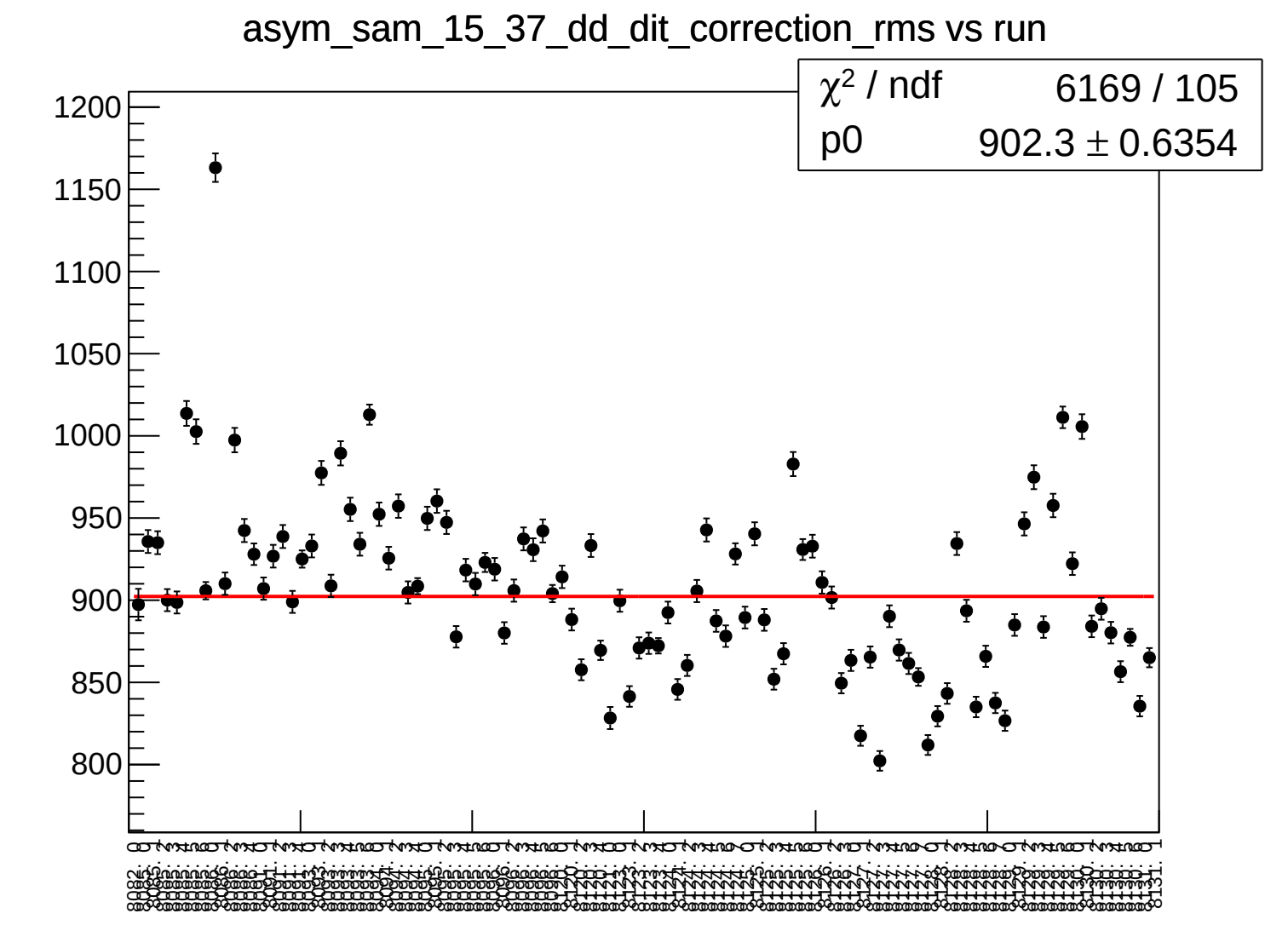

dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 95.6 / 104
p0 74.95 ± 77.5
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 105
Mean −222.1
Std Dev 0
2
1
0
−1
−2

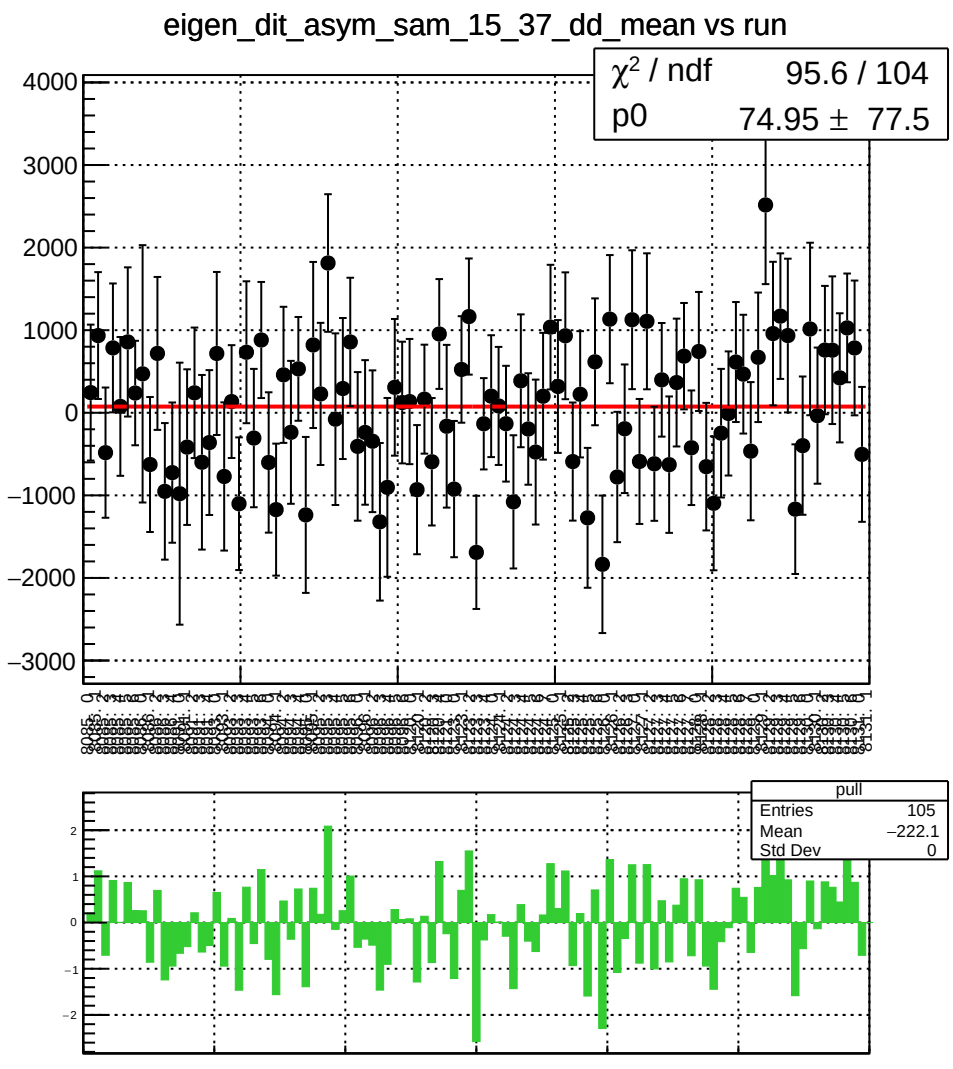

pull1D
Entries 105
Mean −0.01434
Std Dev 0.9541
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

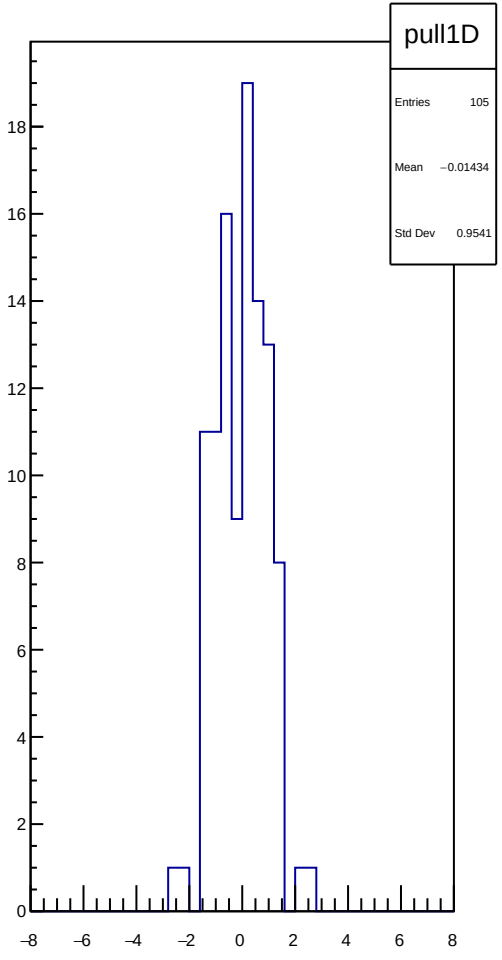

dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 3.17e+04 / 104
p0 77.16 ± 0.0548
160
140
120
100
80
60

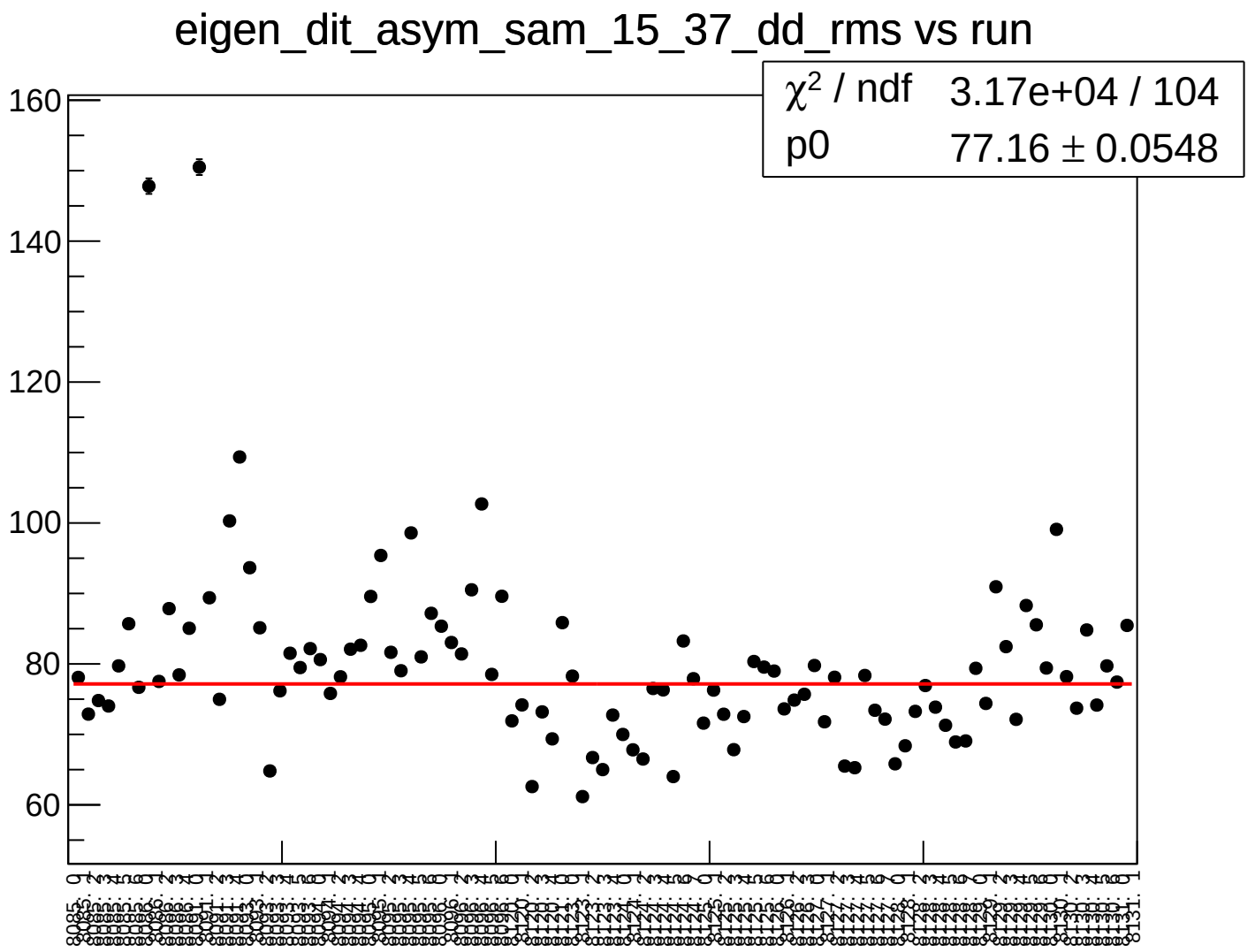

asym_sam_15_37_dd_dit_correction_mean vs run
χ² / ndf 73.57 / 105
p0 1222 ± 898.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 106
Mean −18.78
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

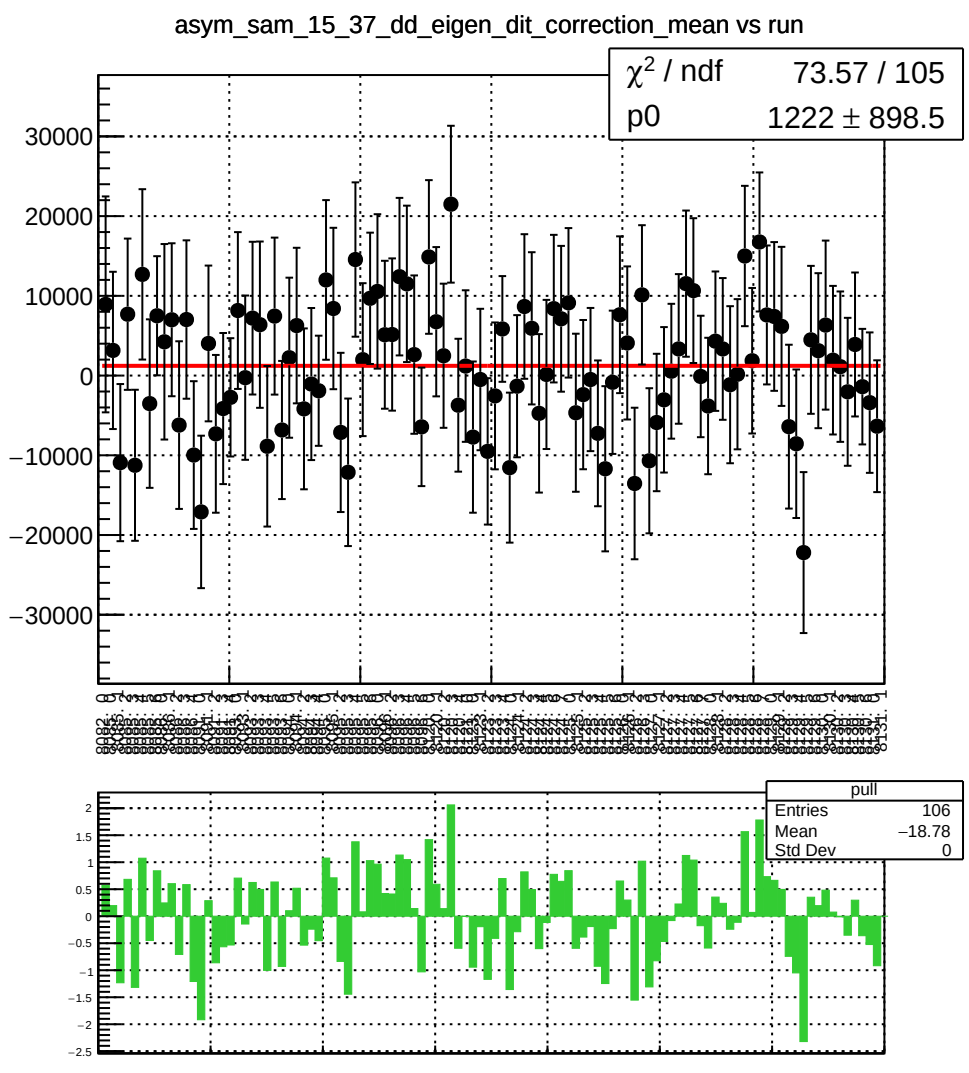

pull1D
Entries 106
Mean 0.003981
Std Dev 0.8331
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

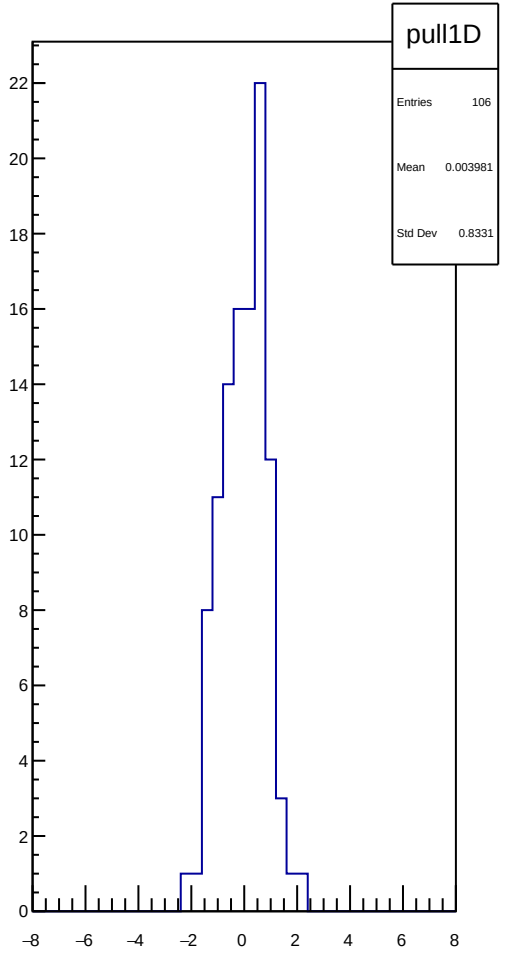

asym_sam_15_37_dd_dit_correction_rms vs run
χ² / ndf 6169 / 105
p0 902.3 ± 0.6354
1200
1150
1100
1050
1000
950
900
850
800

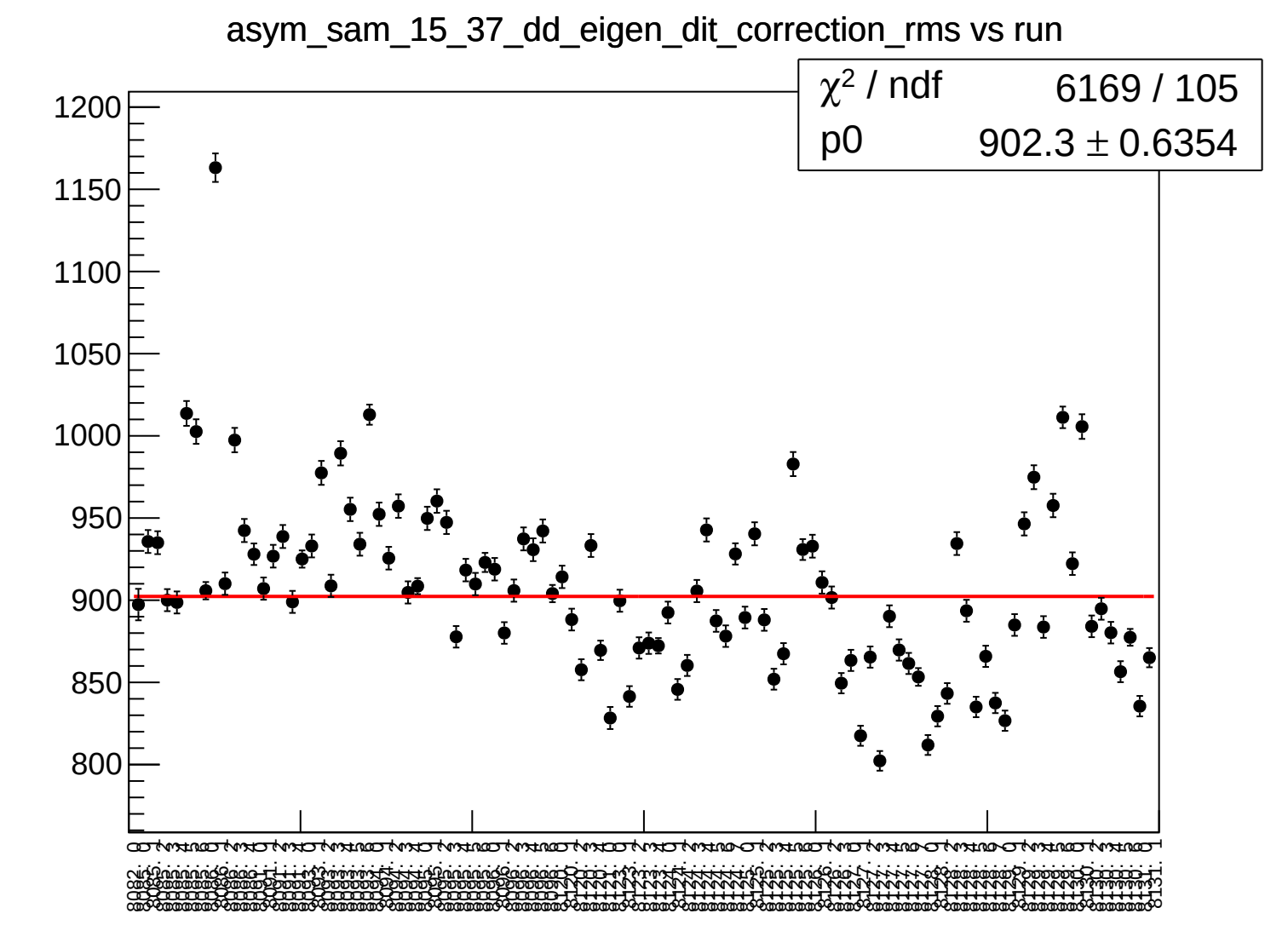

eigen_dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 95.6 / 104
p0 74.95 ± 77.5
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 105
Mean −222.1
Std Dev 0
2
1
0
−1
−2

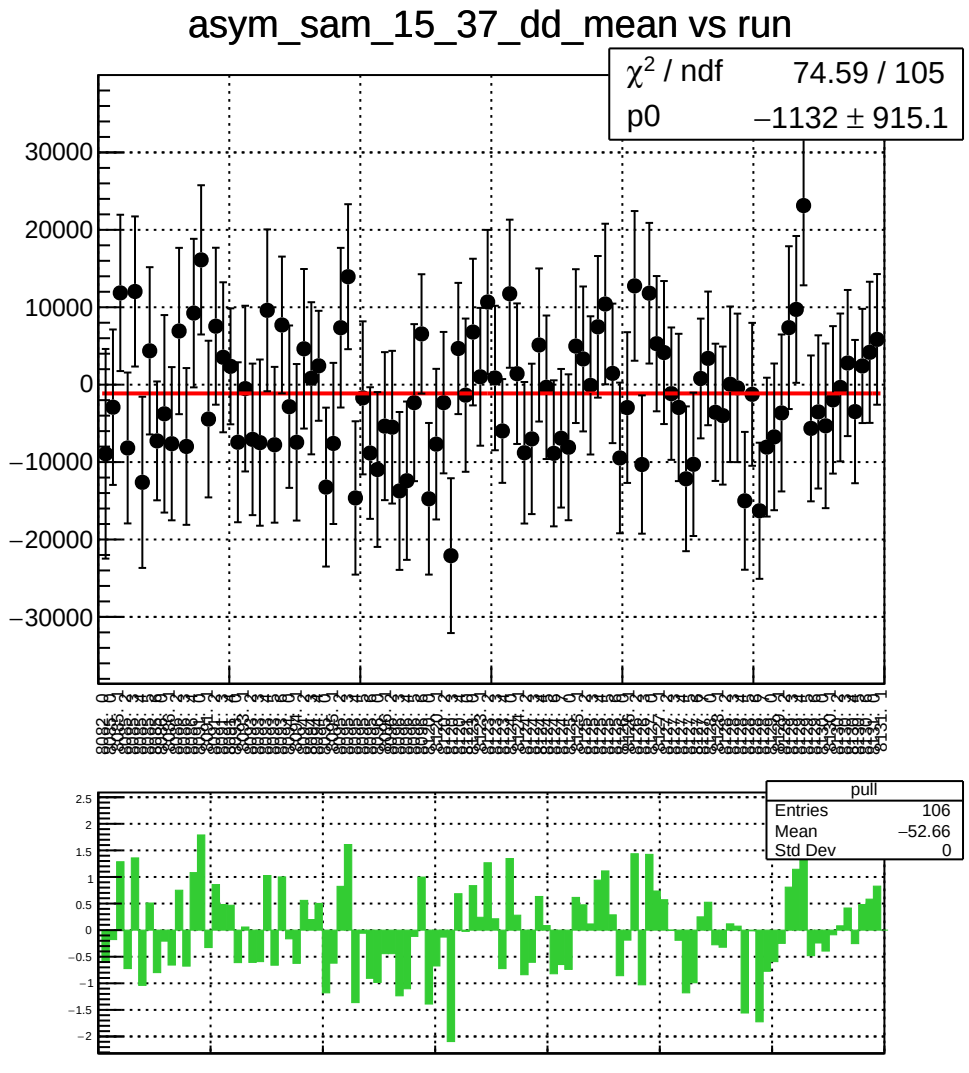

pull1D
Entries 105
Mean −0.01434
Std Dev 0.9541
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

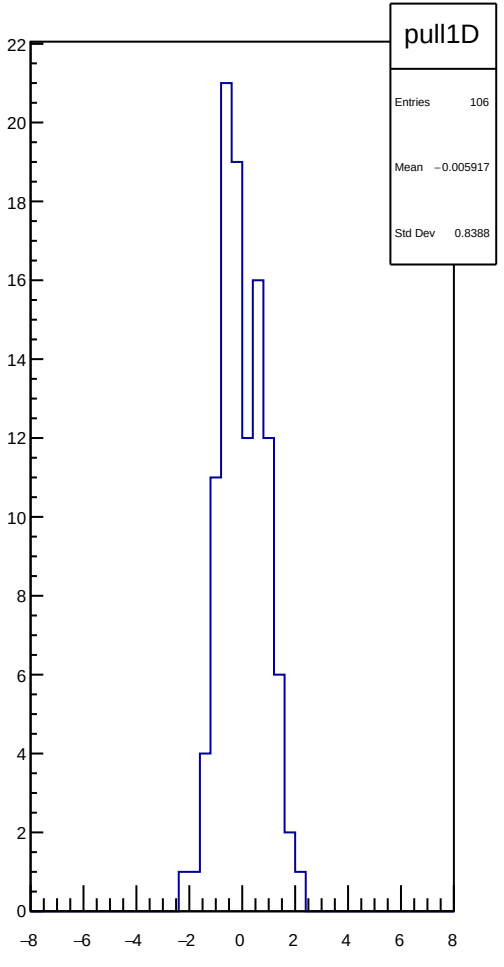

eigen_dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 3.17e+04 / 104
p0 77.16 ± 0.0548
160
140
120
100
80
60


asym_sam_15_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 73.57 / 105
p0 1222 ± 898.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 106
Mean −18.78
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

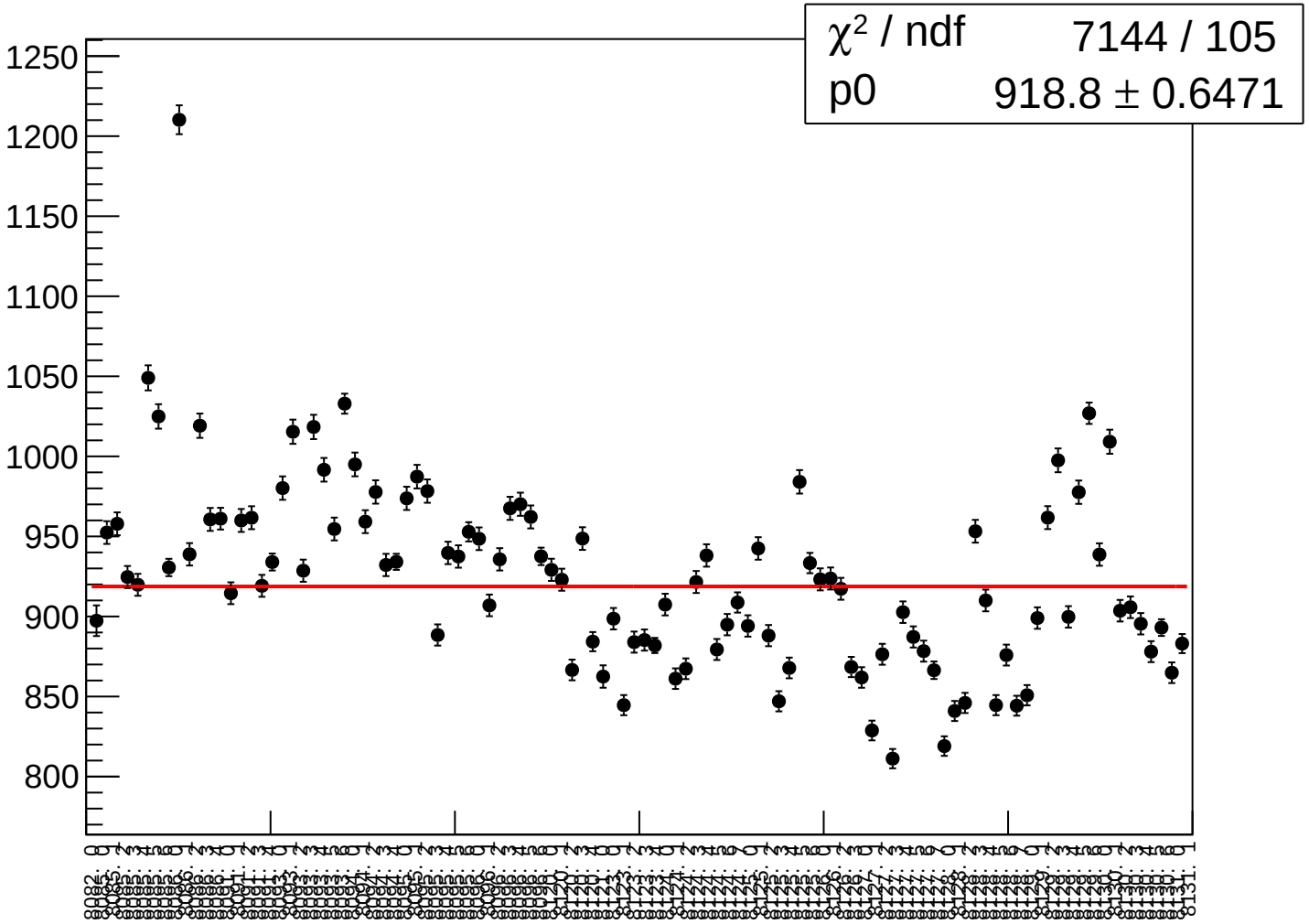

pull1D
Entries 106
Mean 0.003981
Std Dev 0.8331
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

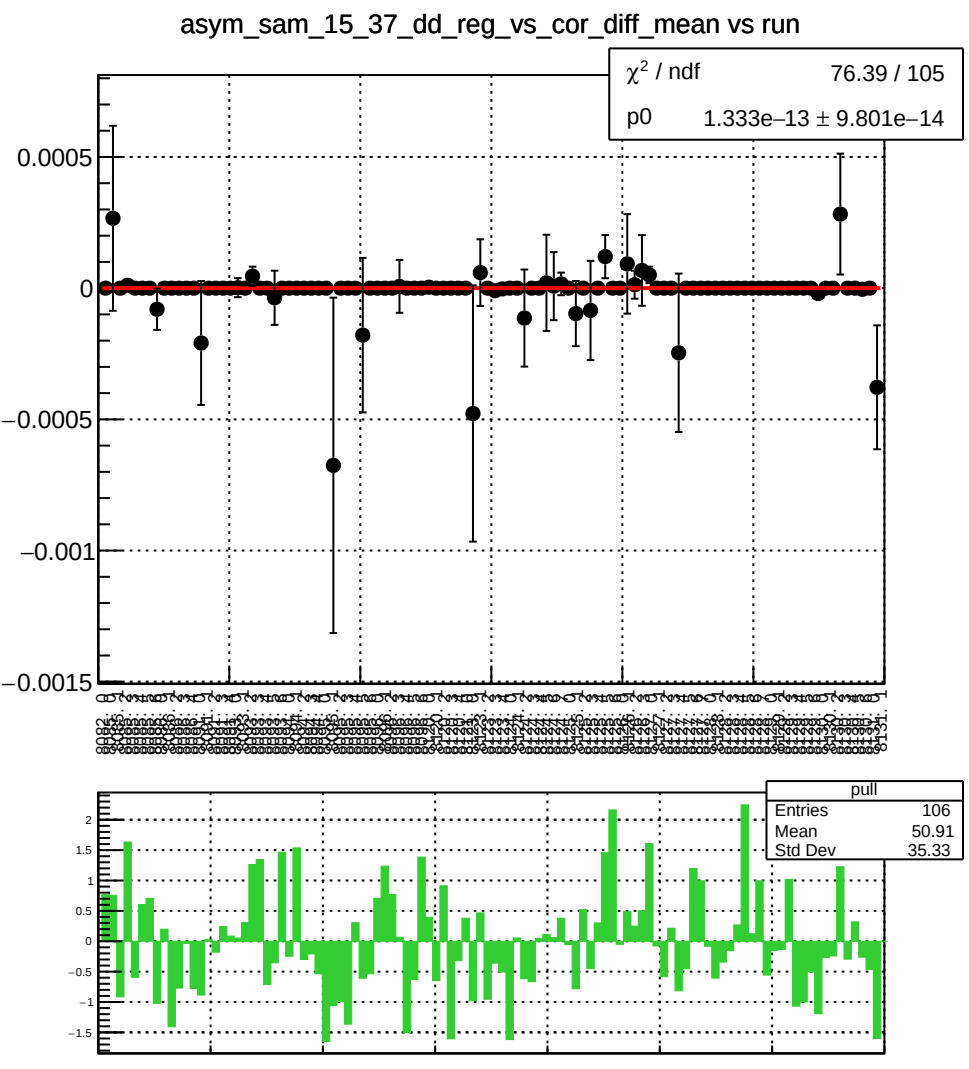

asym_sam_15_37_dd_eigen_dit_correction_rms vs run
χ² / ndf 6169 / 105
p0 902.3 ± 0.6354
1200
1150
1100
1050
1000
950
900
850
800

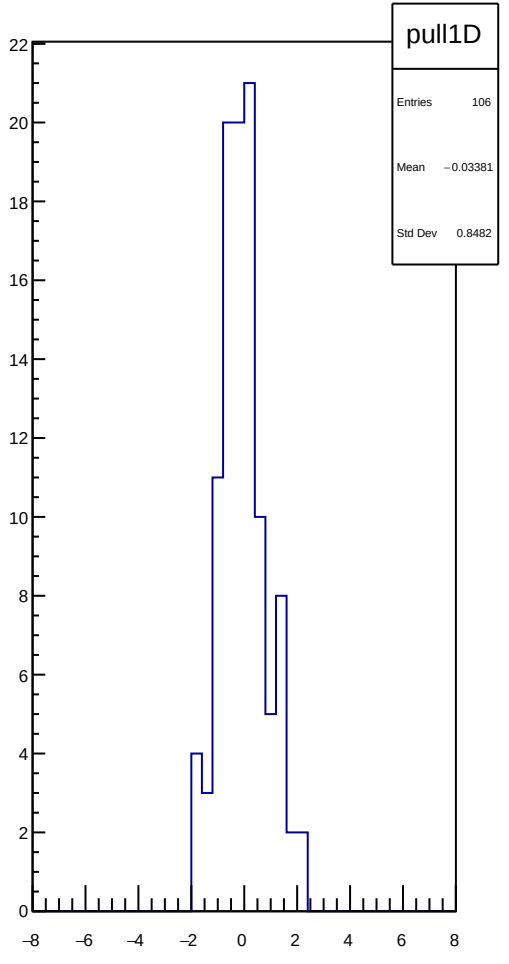

asym_sam_15_37_dd_mean vs run
χ² / ndf 74.59 / 105
p0 −1132 ± 915.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 106
Mean −52.66
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

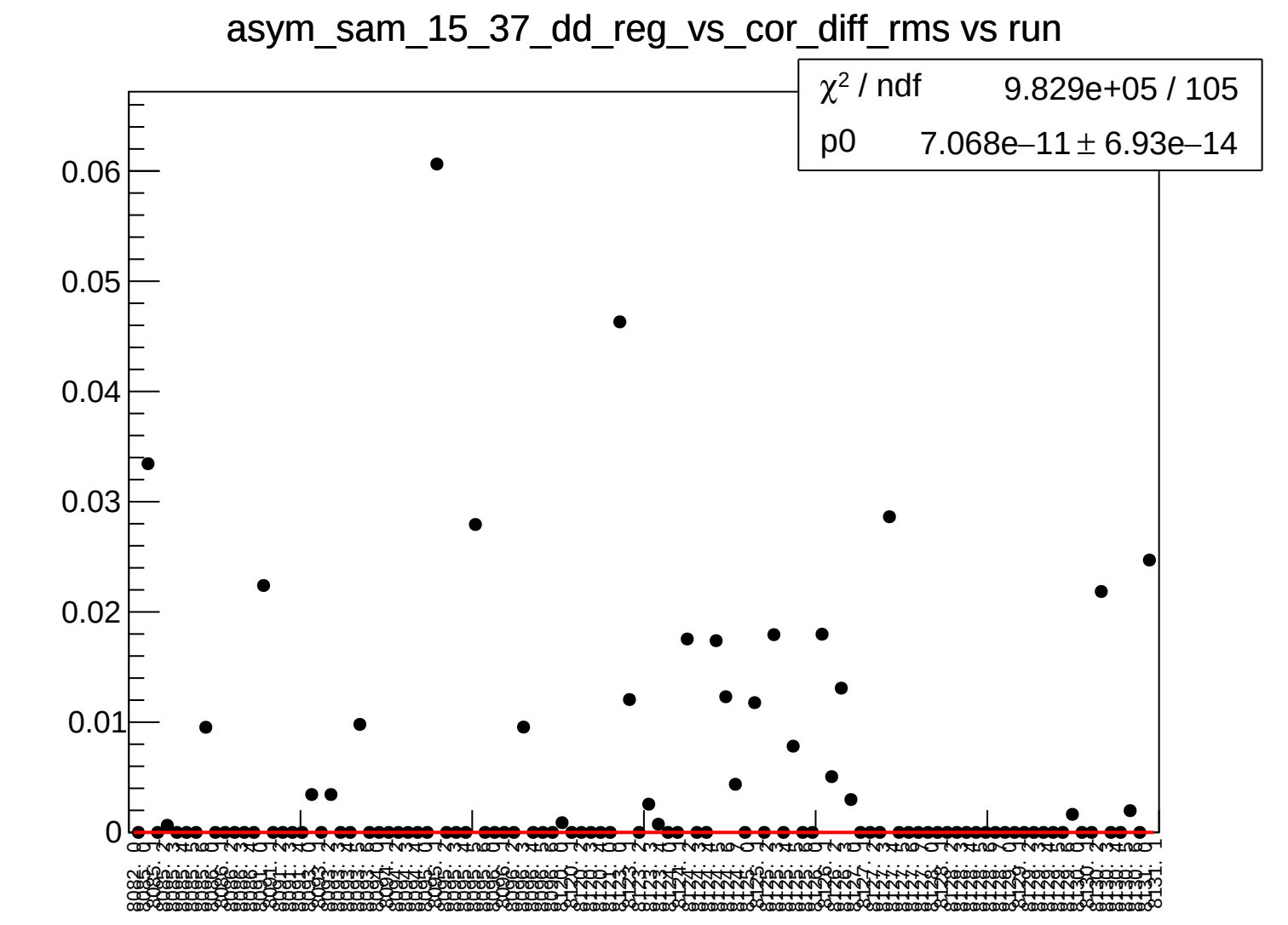

pull1D
Entries 106
Mean −0.005917
Std Dev 0.8388
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

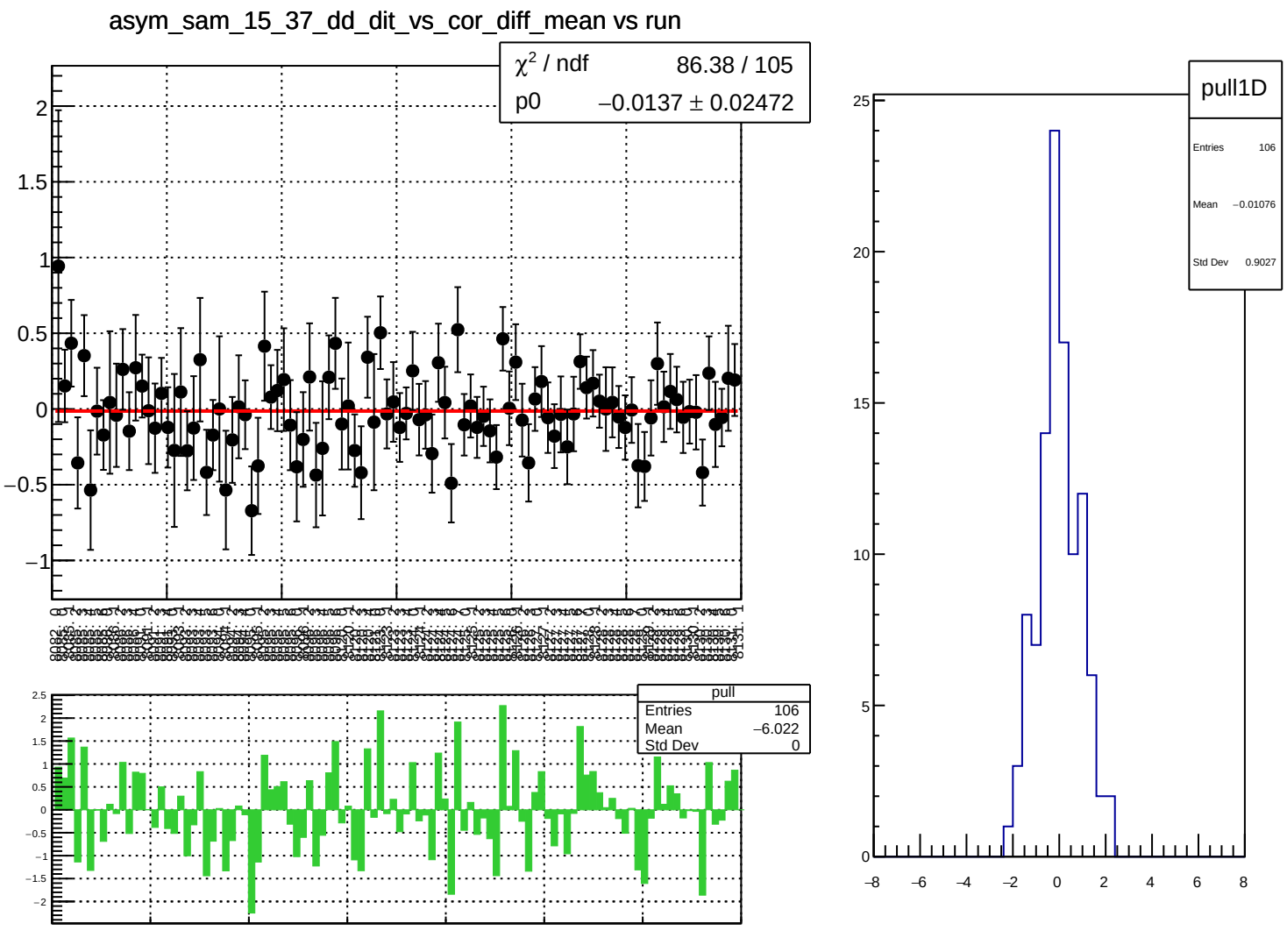
# asym_sam_15_37_dd_rms vs run

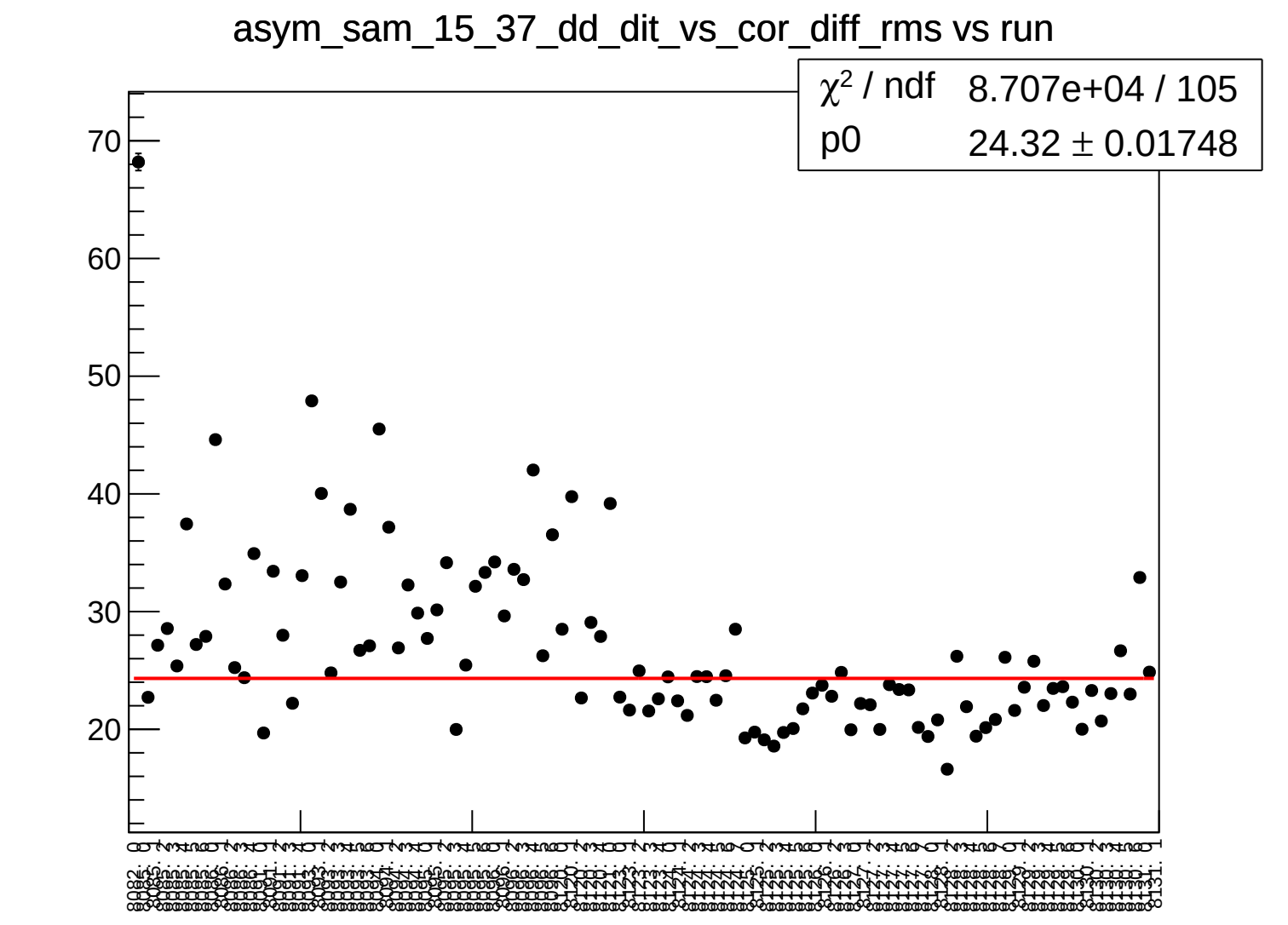


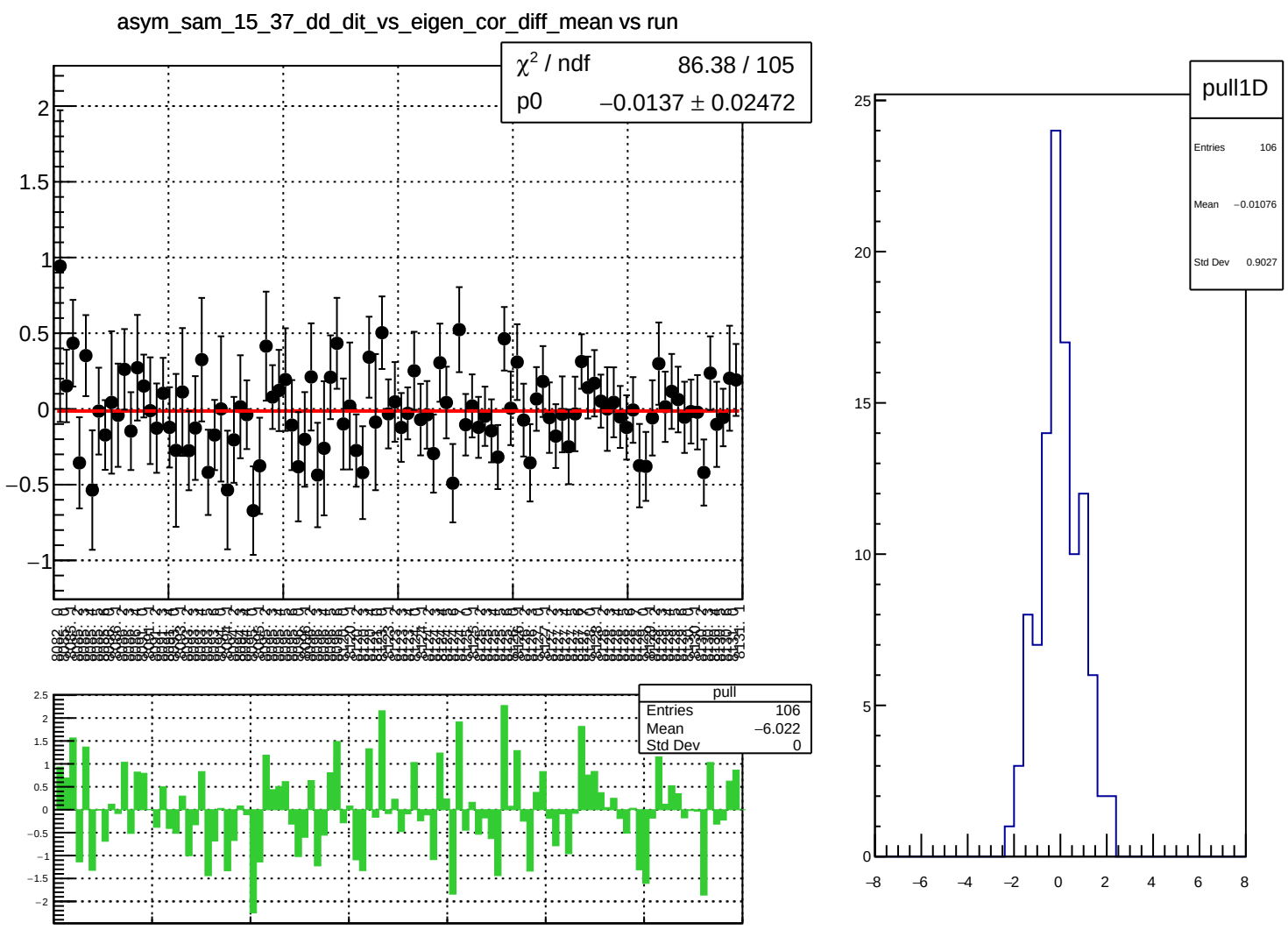

asym_sam_15_37_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 76.39 / 105
p0 1.333e−13 ± 9.801e−14
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 106
Mean 50.91
Std Dev 35.33
2
1.5
1
0.5
0
−0.5
−1
−1.5

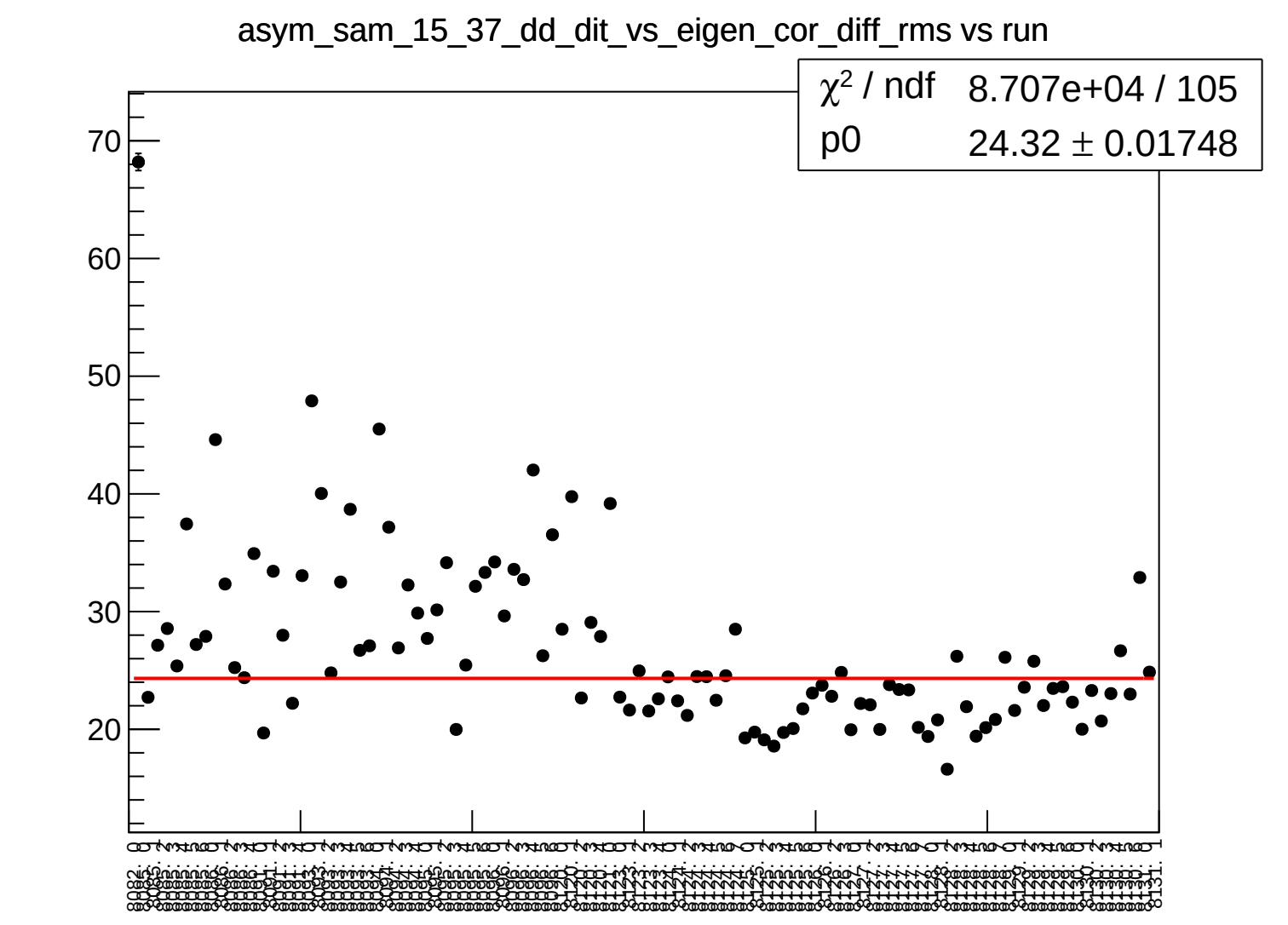

pull1D
Entries 106
Mean −0.03381
Std Dev 0.8482
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

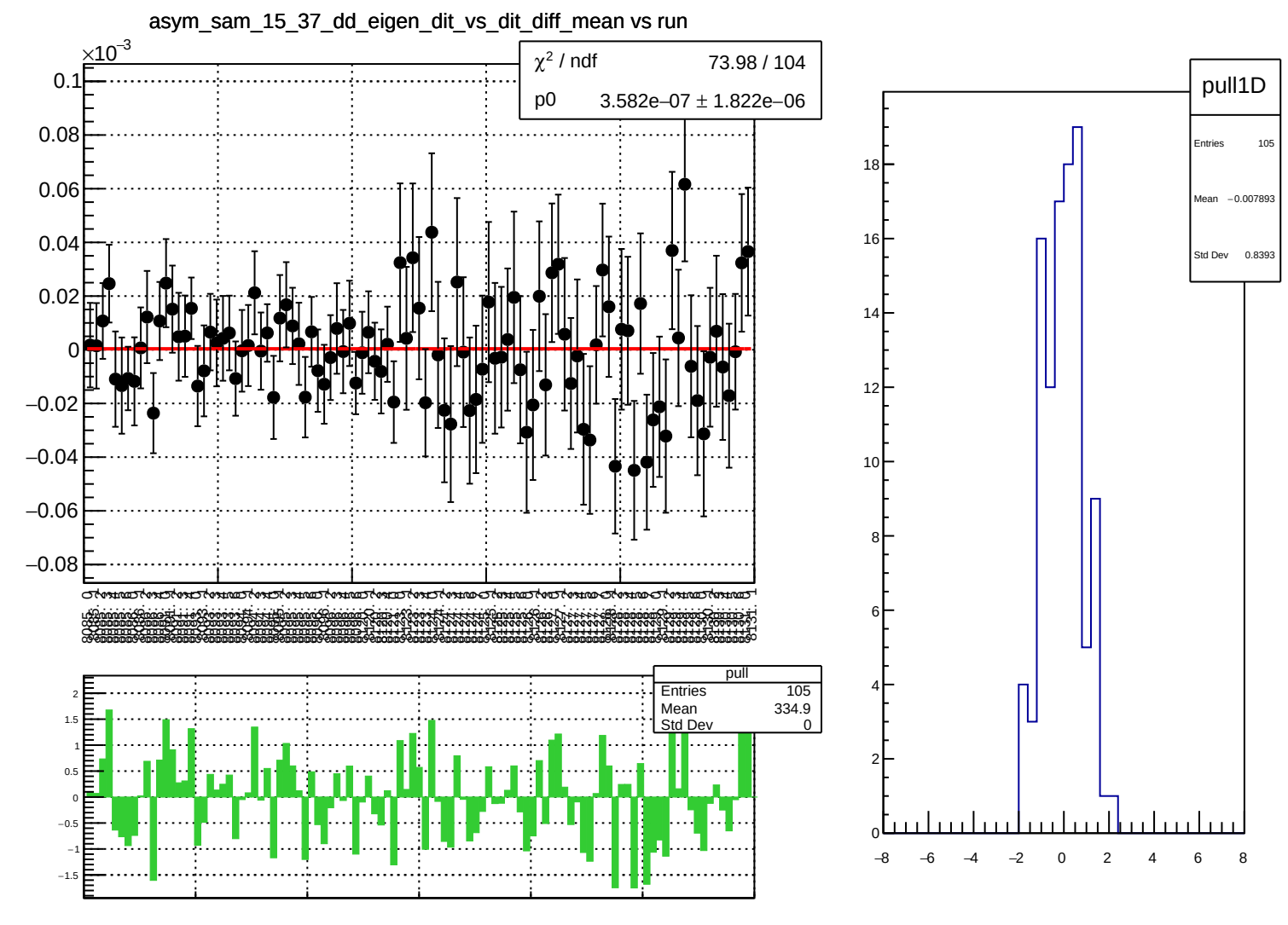

asym_sam_15_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.829e+05 / 105
p0 7.068e−11 ± 6.93e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

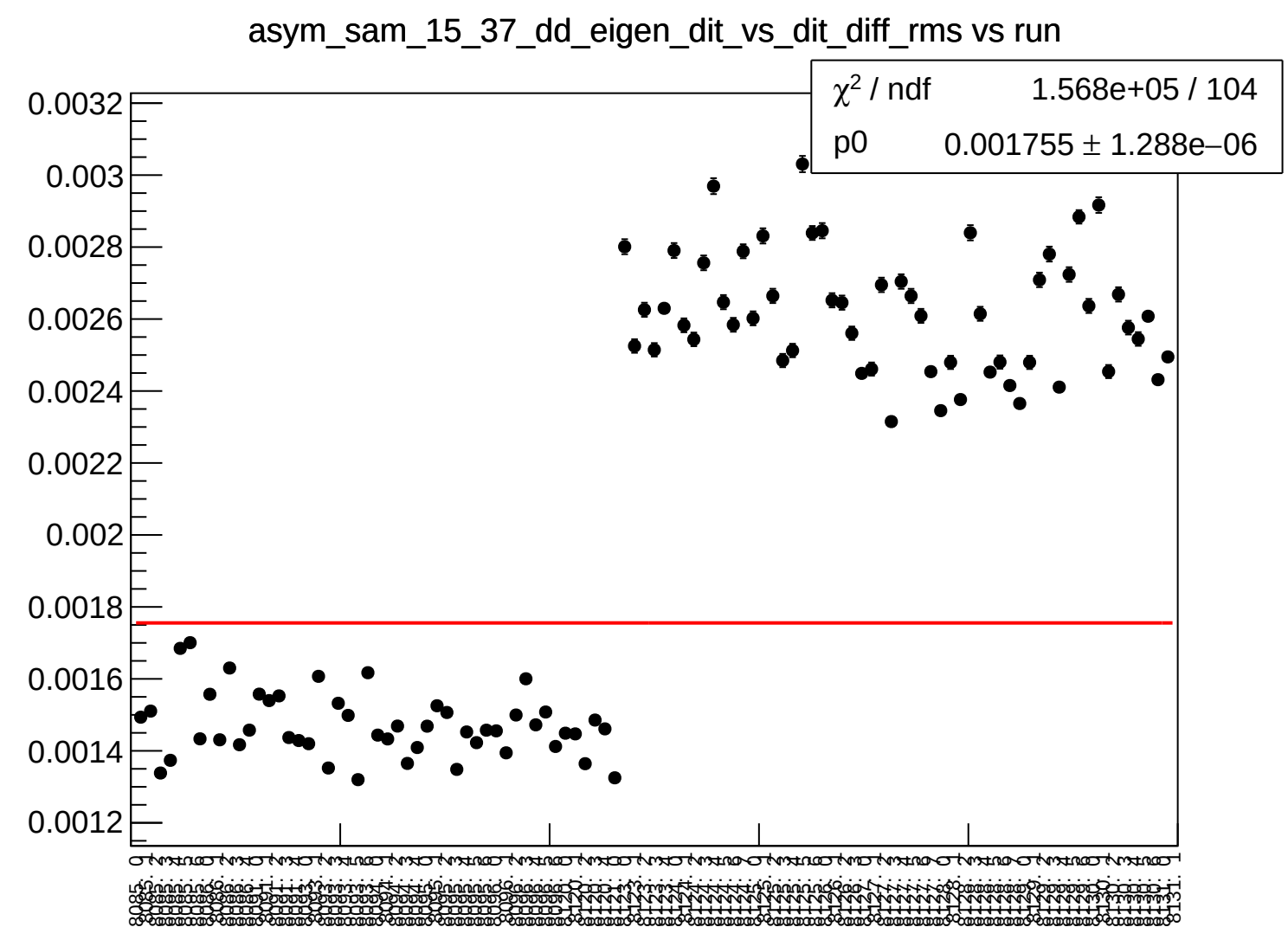

asym_sam_15_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 86.38 / 105
p0 −0.0137 ± 0.02472
pull
Entries 106
Mean −6.022
Std Dev 0
pull1D
Entries 106
Mean −0.01076
Std Dev 0.9027

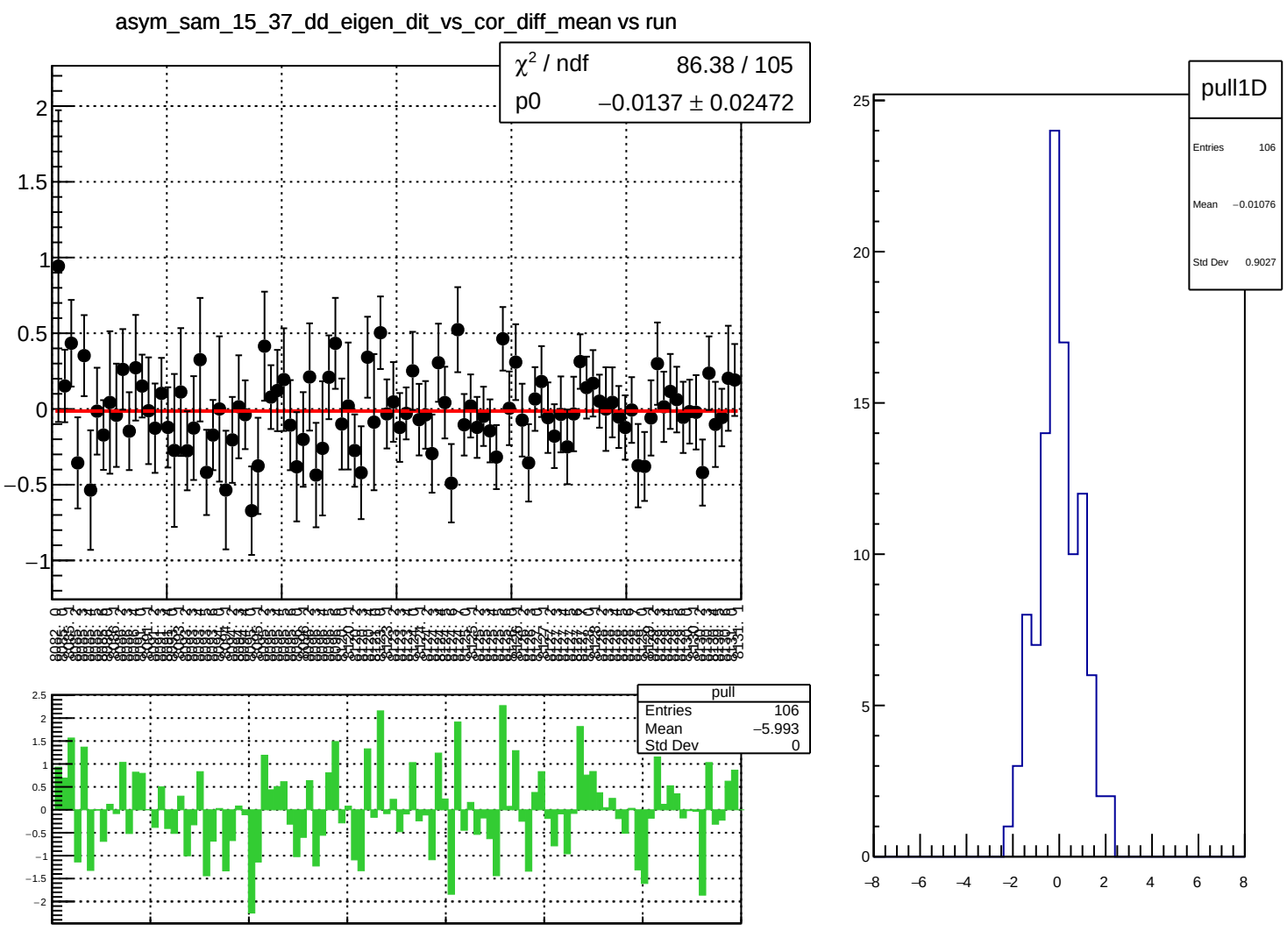

asym_sam_15_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8.707e+04 / 105
p0 24.32 ± 0.01748
70
60
50
40
30
20

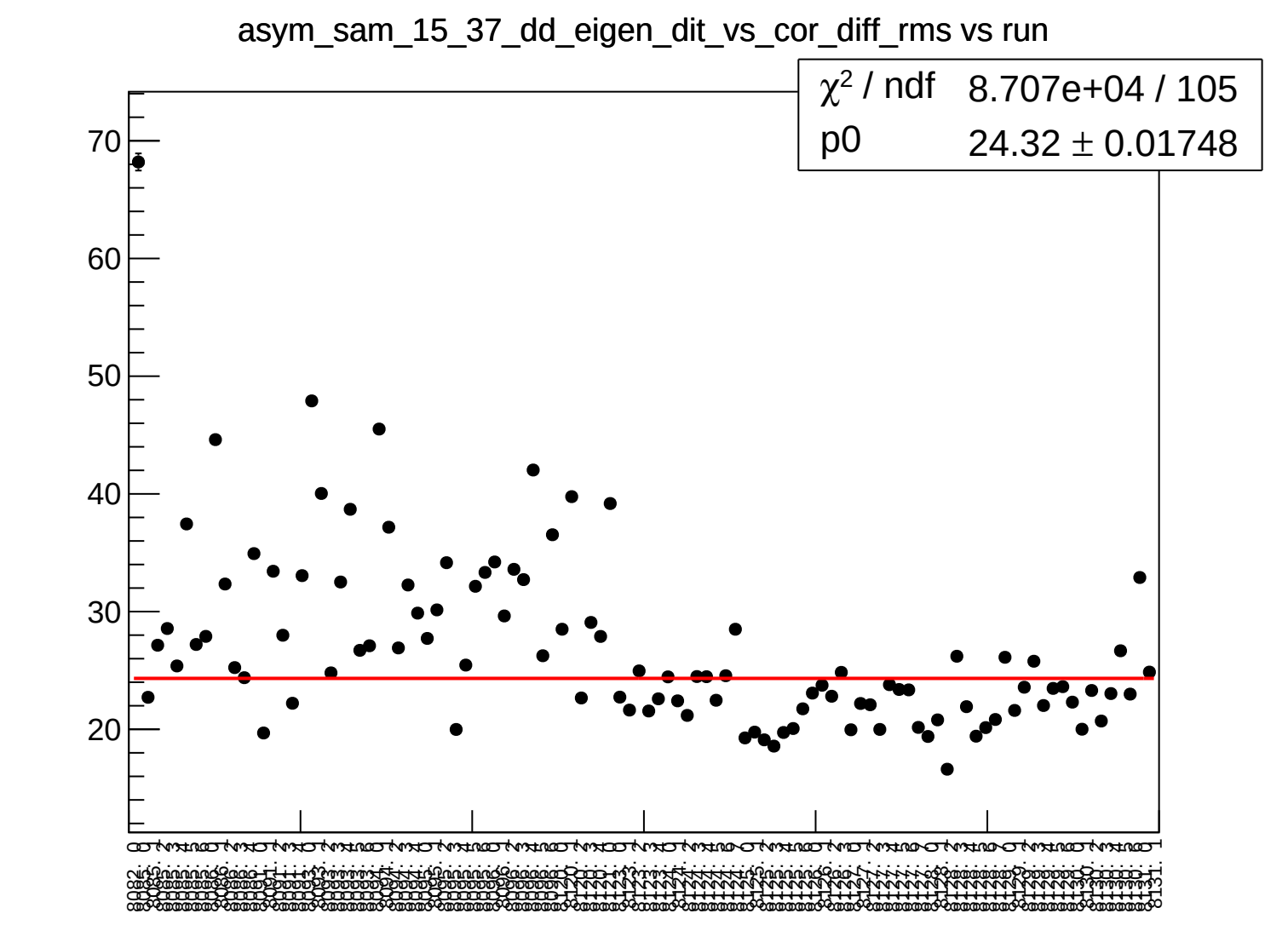

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.38 / 105
p0 −0.0137 ± 0.02472
pull
Entries 106
Mean −6.022
Std Dev 0
pull1D
Entries 106
Mean −0.01076
Std Dev 0.9027

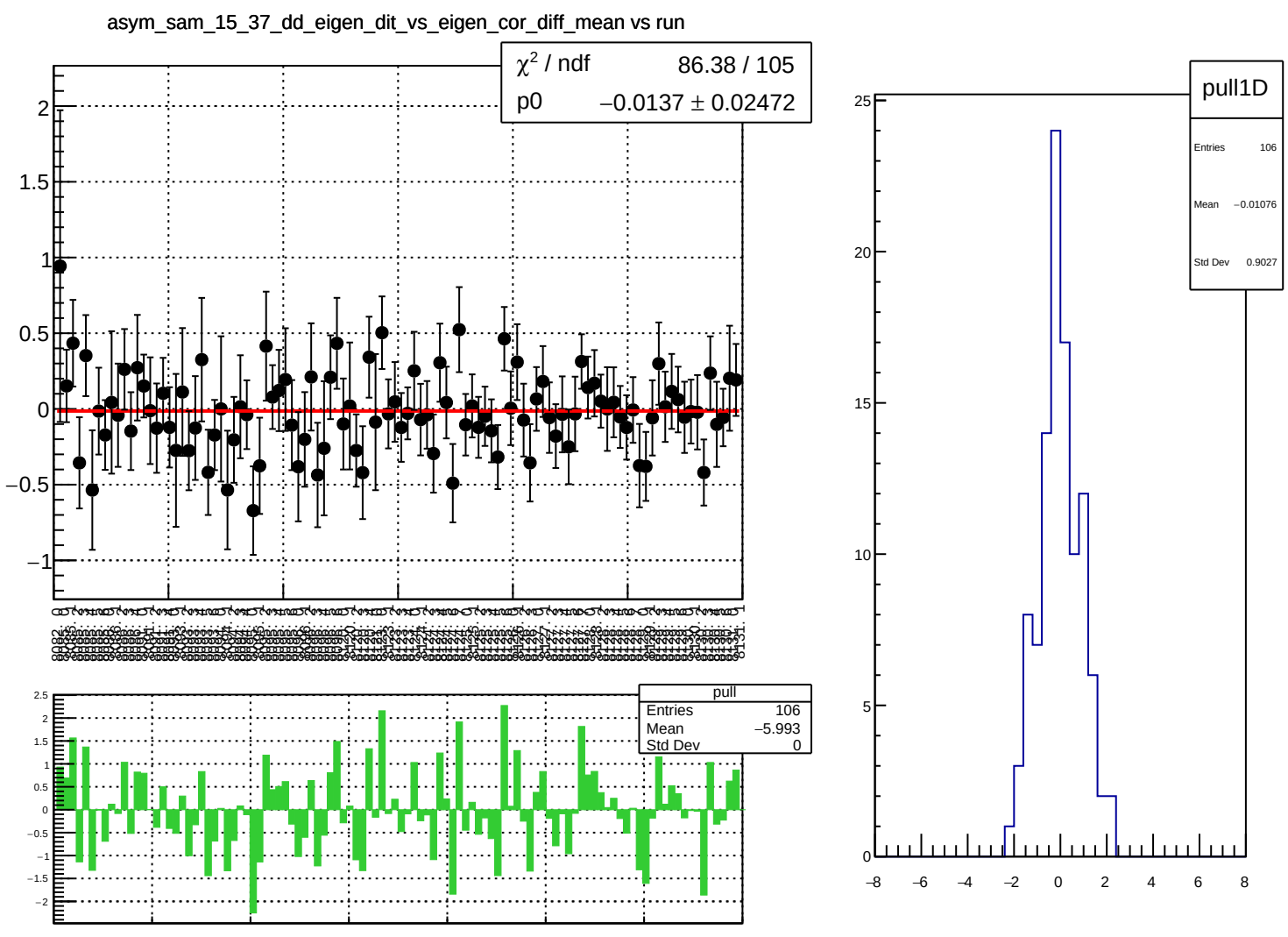

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.707e+04 / 105
p0 24.32 ± 0.01748
70
60
50
40
30
20

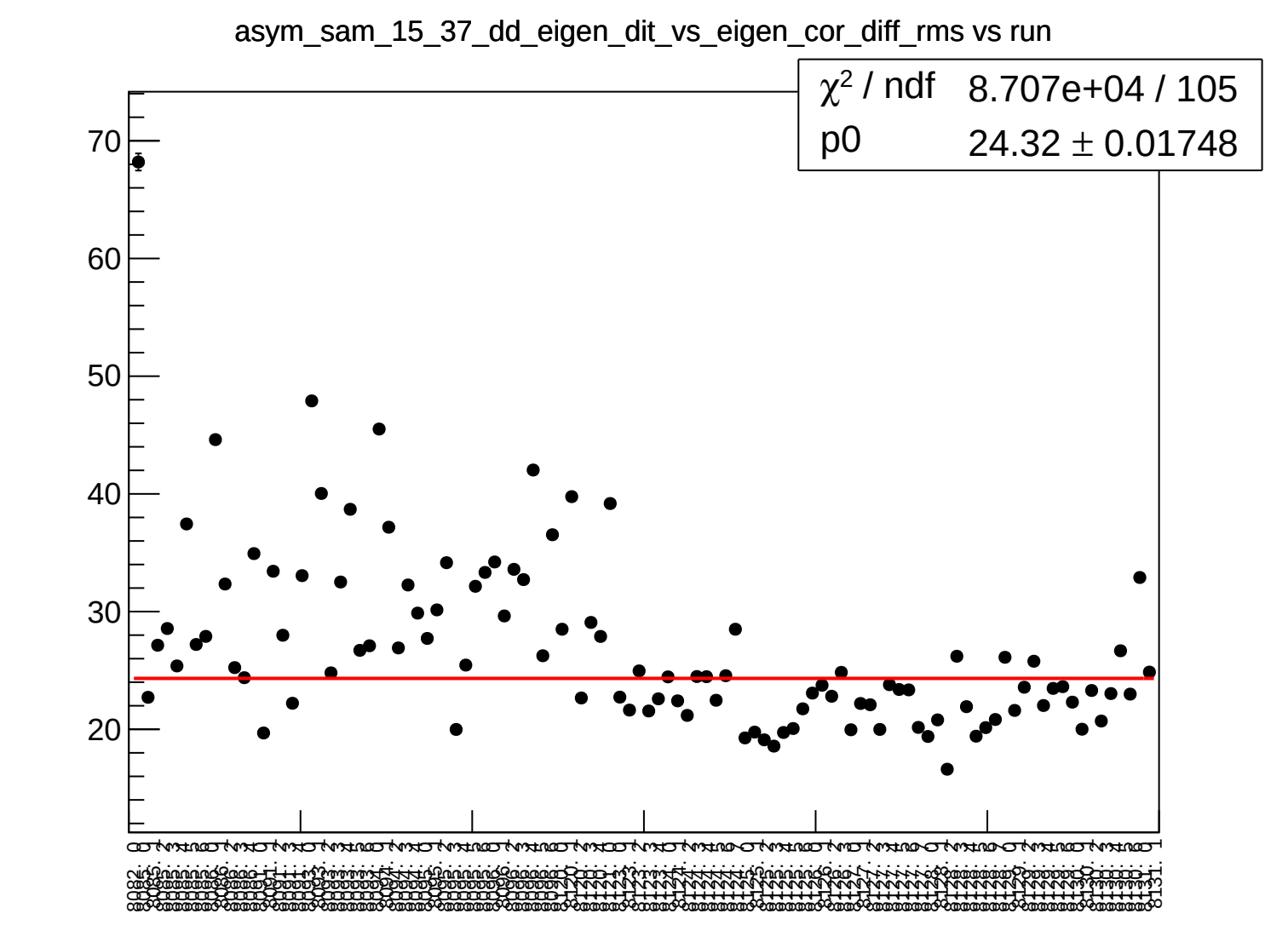

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 73.98 / 104
p0 3.582e−07 ± 1.822e−06
pull
Entries 105
Mean 334.9
Std Dev 0
pull1D
Entries 105
Mean −0.007893
Std Dev 0.8393

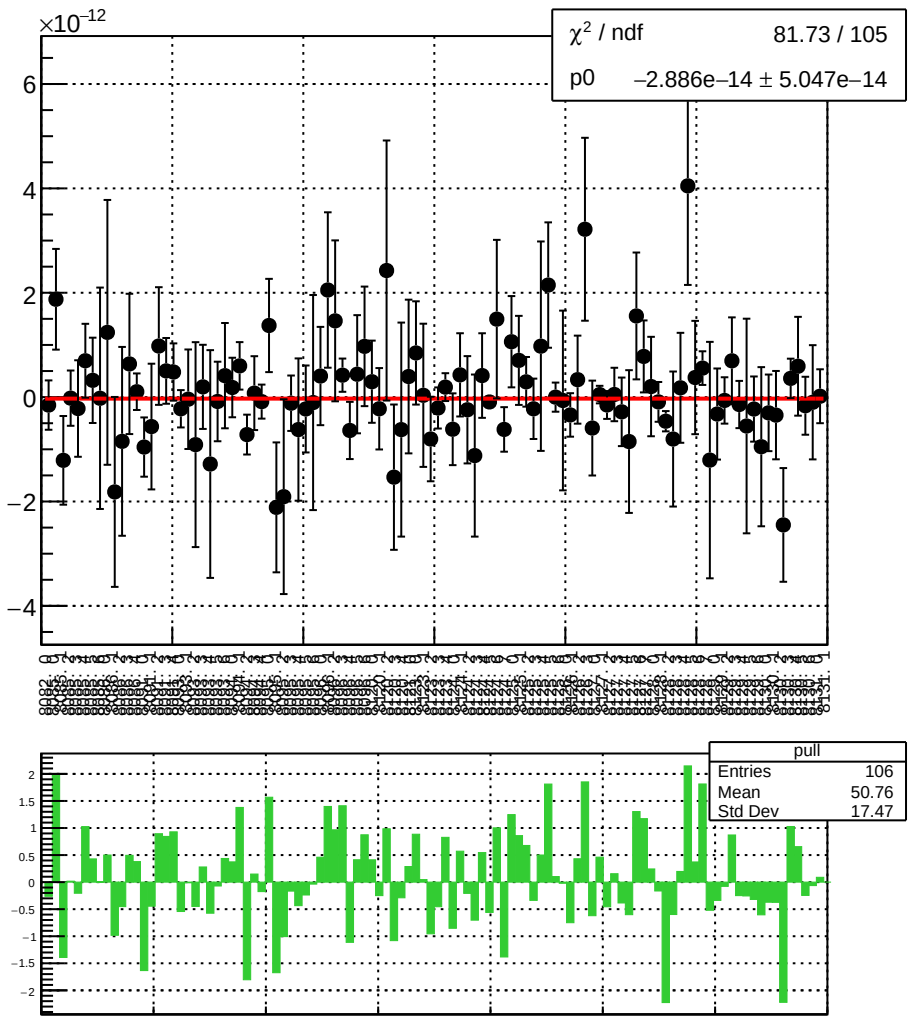

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.568e+05 / 104
p0 0.001755 ± 1.288e−06
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012

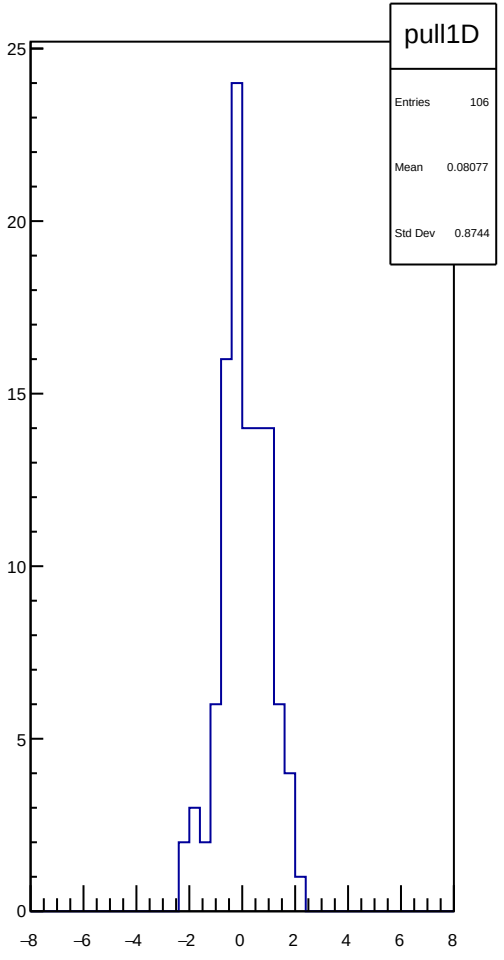

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.38 / 105
p0 −0.0137 ± 0.02472
pull
Entries 106
Mean −5.993
Std Dev 0
pull1D
Entries 106
Mean −0.01076
Std Dev 0.9027

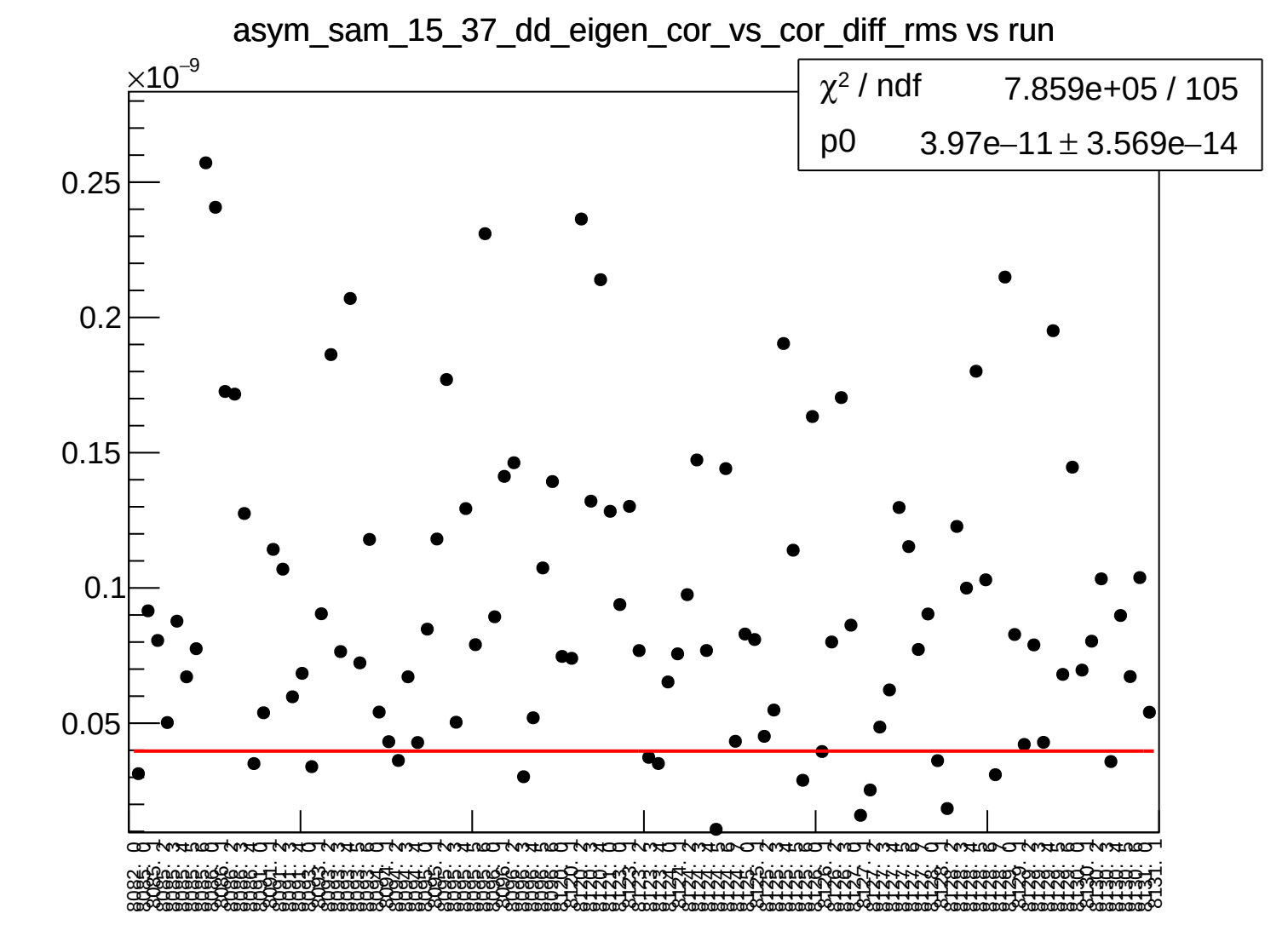

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.707e+04 / 105
p0 24.32 ± 0.01748
70
60
50
40
30
20

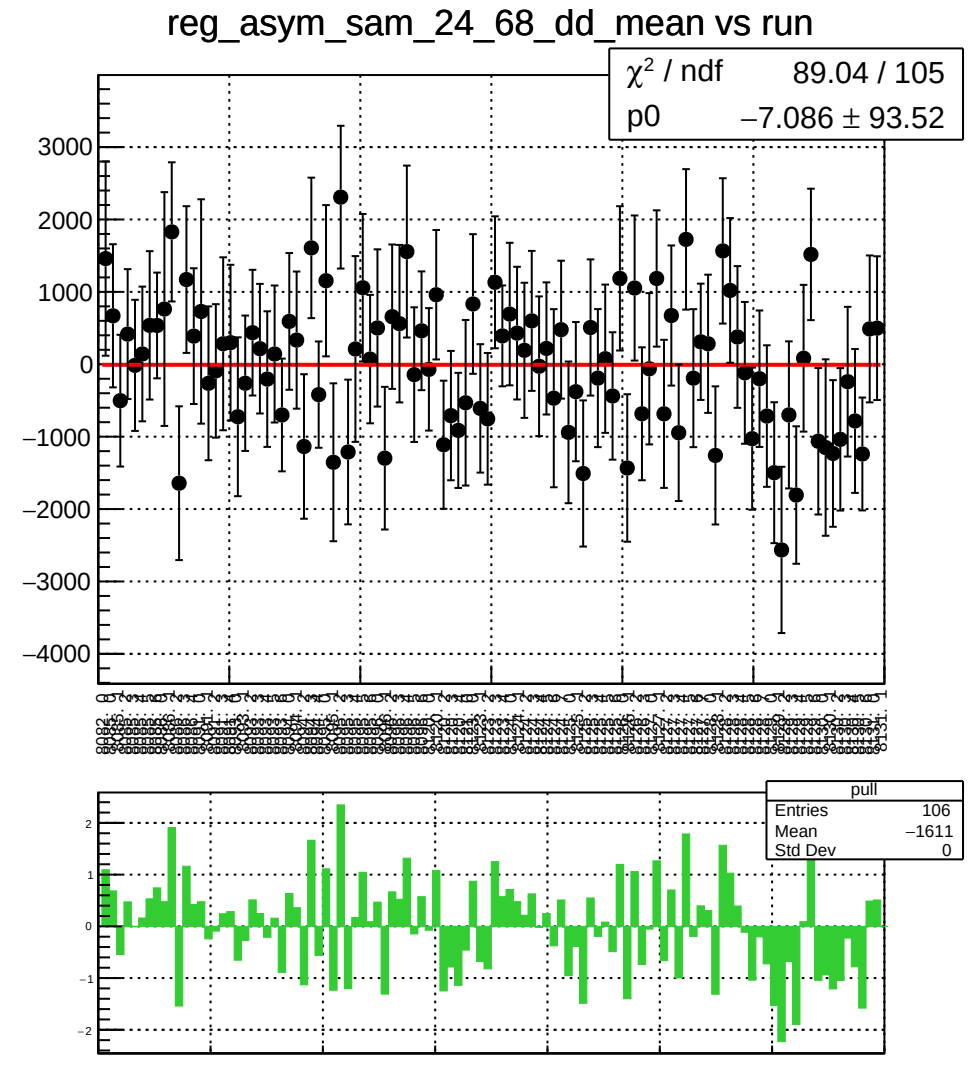

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.38 / 105
p0 −0.0137 ± 0.02472
pull
Entries 106
Mean −5.993
Std Dev 0
pull1D
Entries 106
Mean −0.01076
Std Dev 0.9027

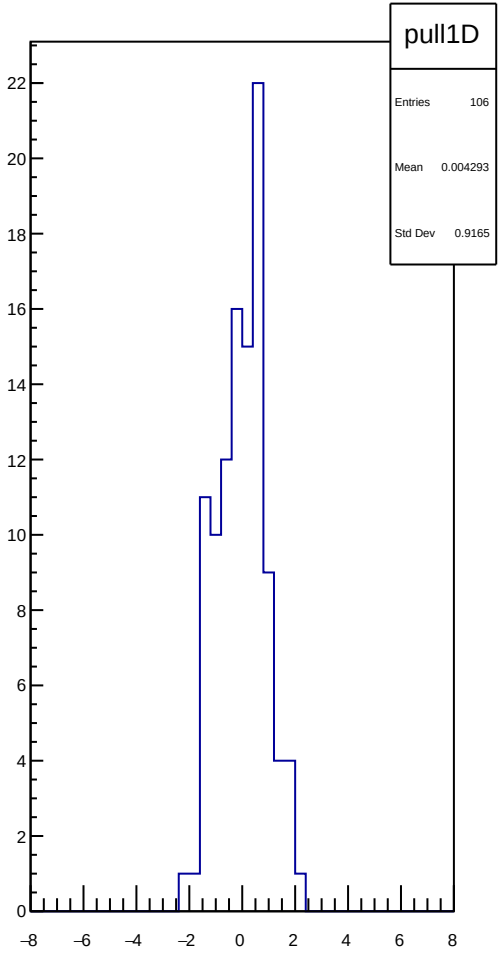

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
$\chi^2$ / ndf 8.707e+04 / 105
p0 24.32 ± 0.01748
70
60
50
40
30
20

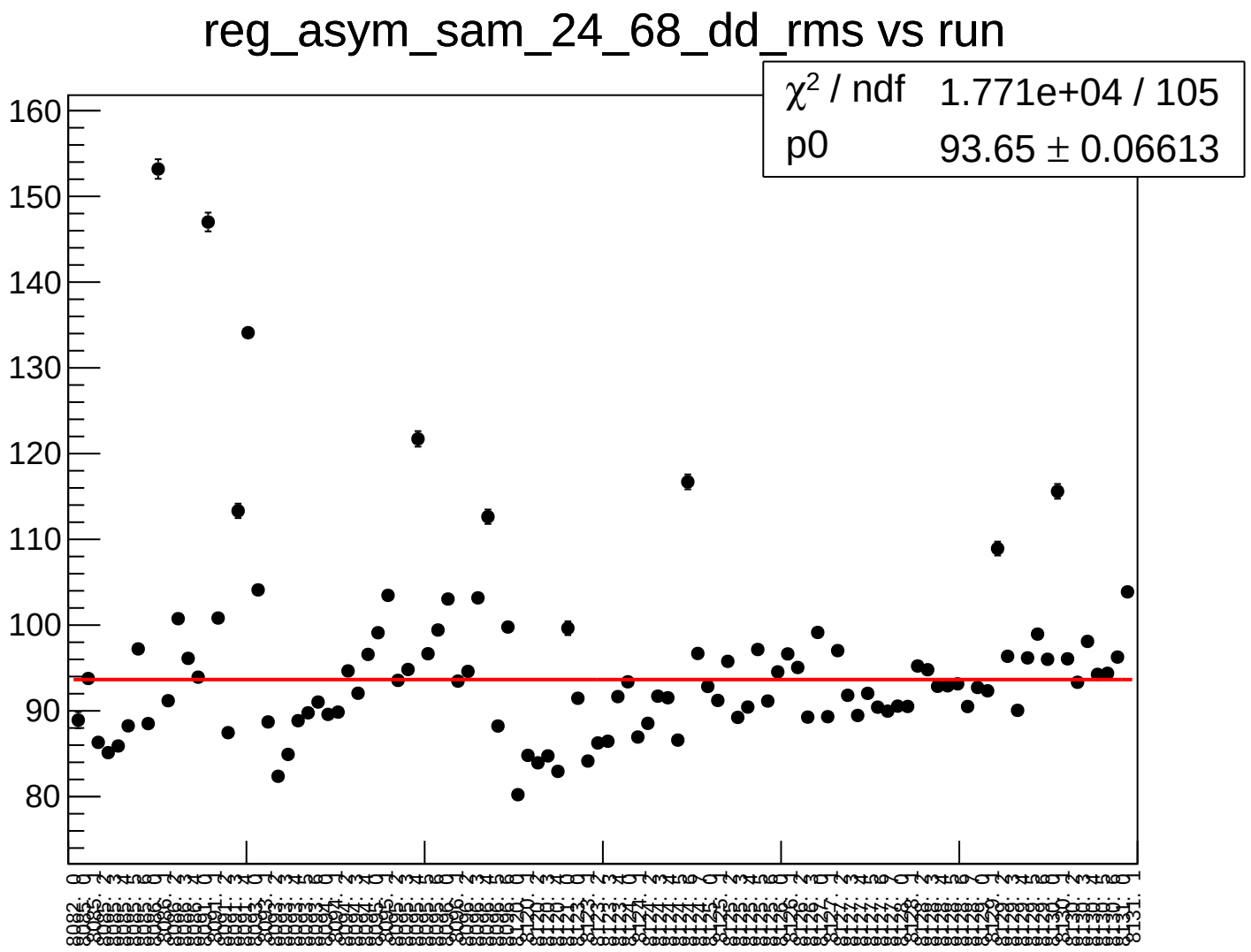

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.73 / 105
p0 −2.886e−14 ± 5.047e−14
pull
Entries 106
Mean 50.76
Std Dev 17.47

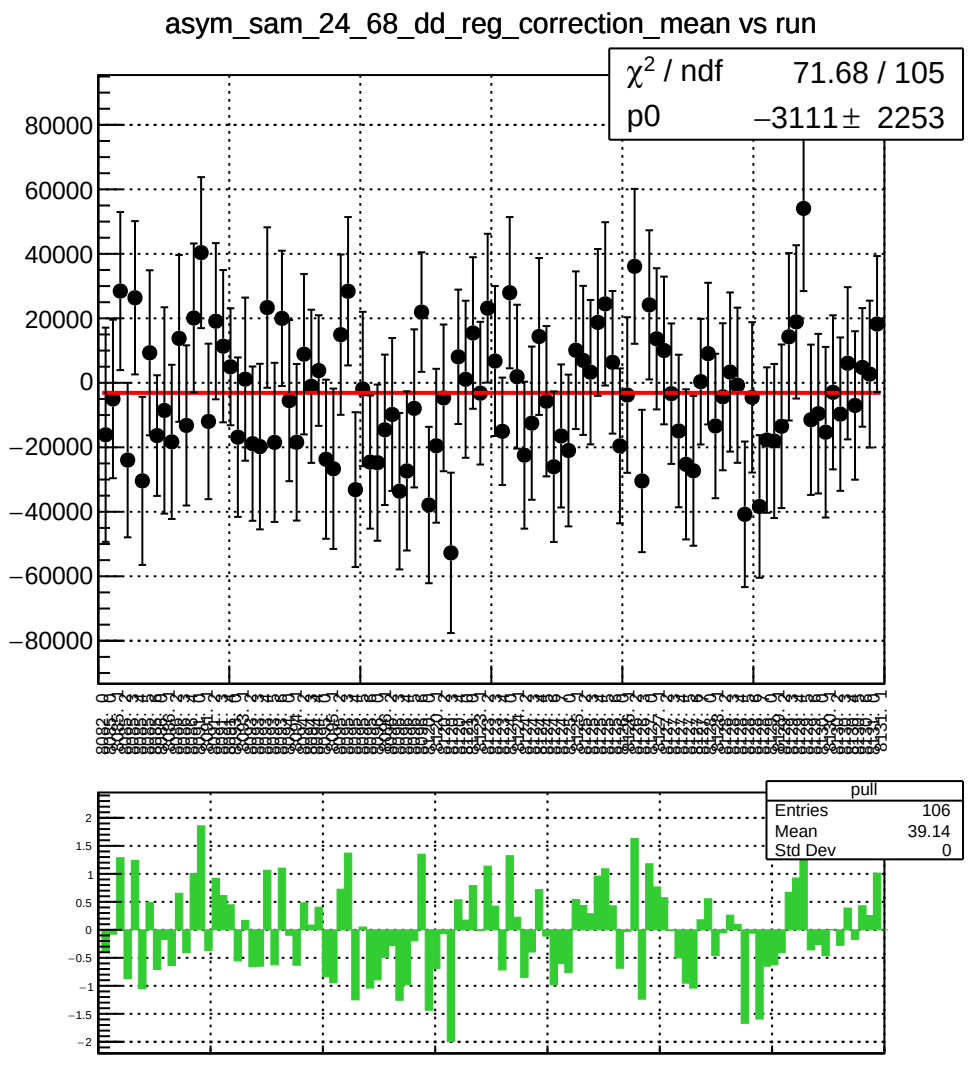

pull1D
Entries 106
Mean 0.08077
Std Dev 0.8744

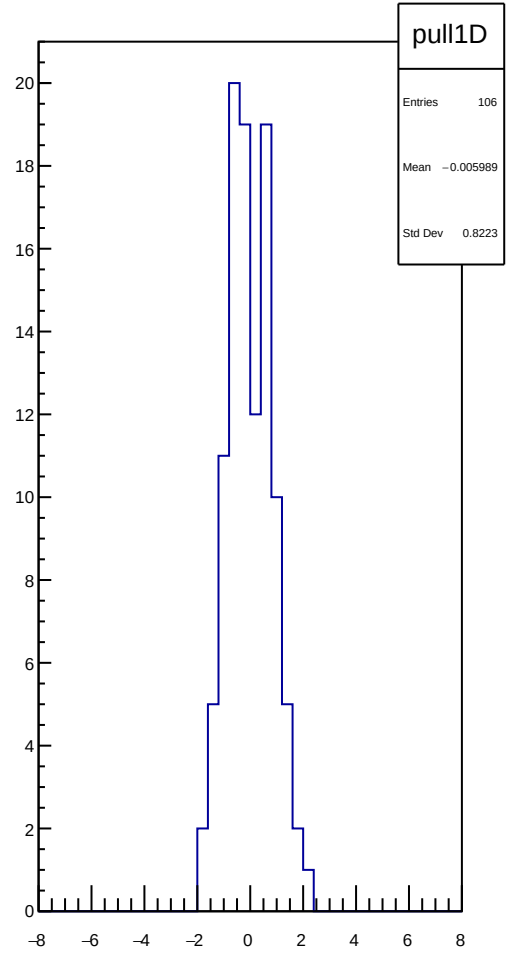

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.859e+05 / 105
p0 3.97e−11 ± 3.569e−14
0.25
0.2
0.15
0.1
0.05

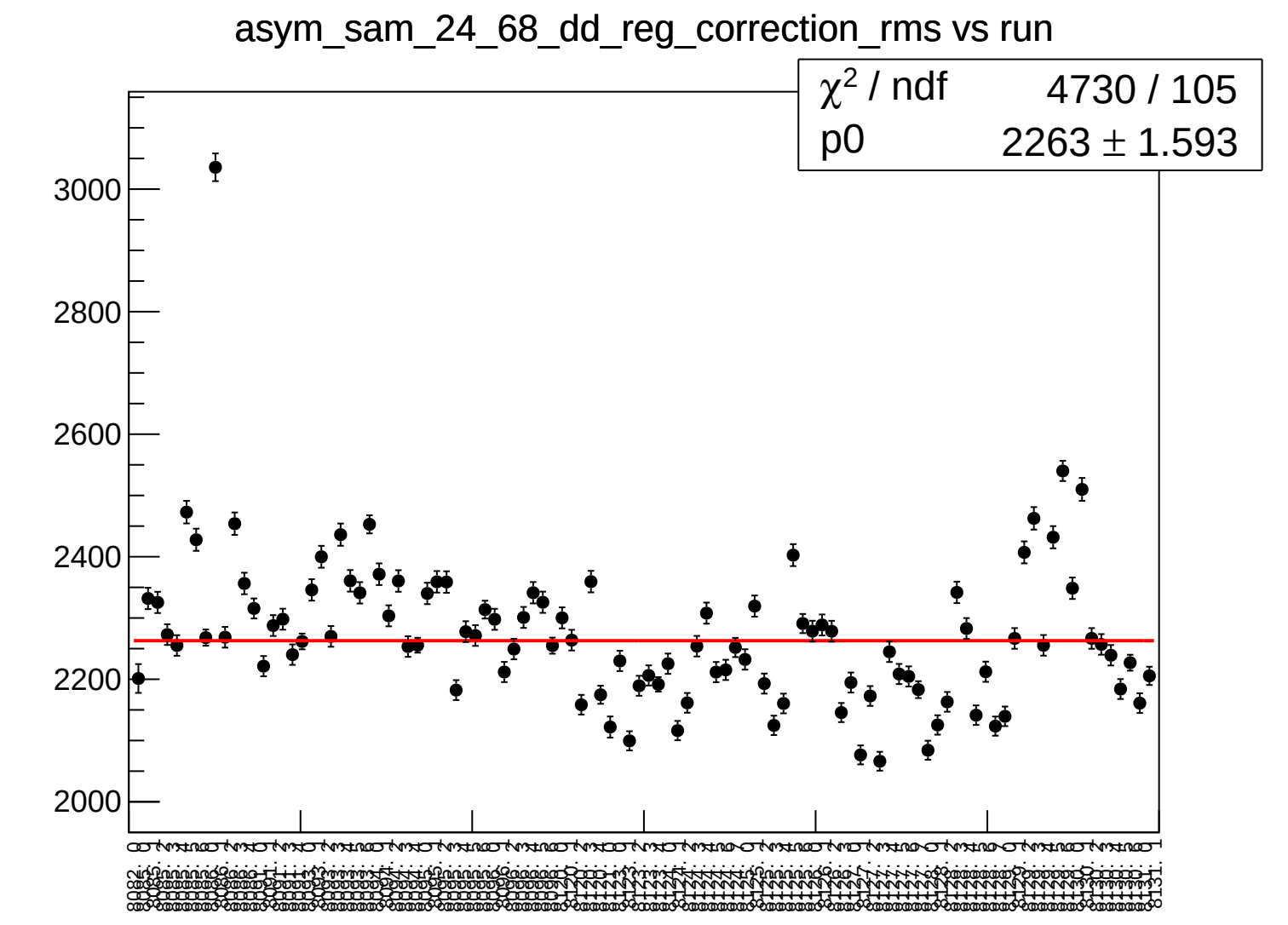

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 89.04 / 105
p0 −7.086 ± 93.52
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 106
Mean −1611
Std Dev 0
2
1
0
−1
−2

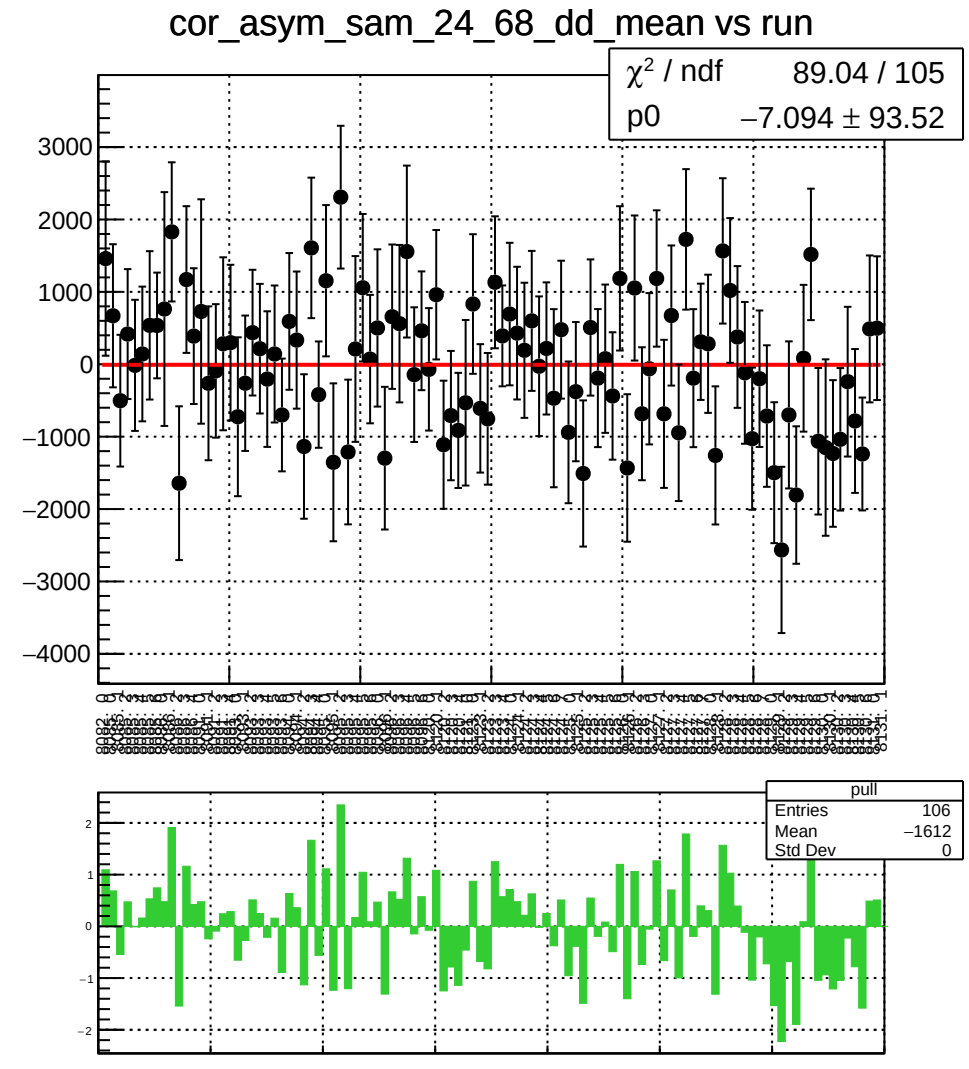

pull1D
Entries 106
Mean 0.004293
Std Dev 0.9165
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

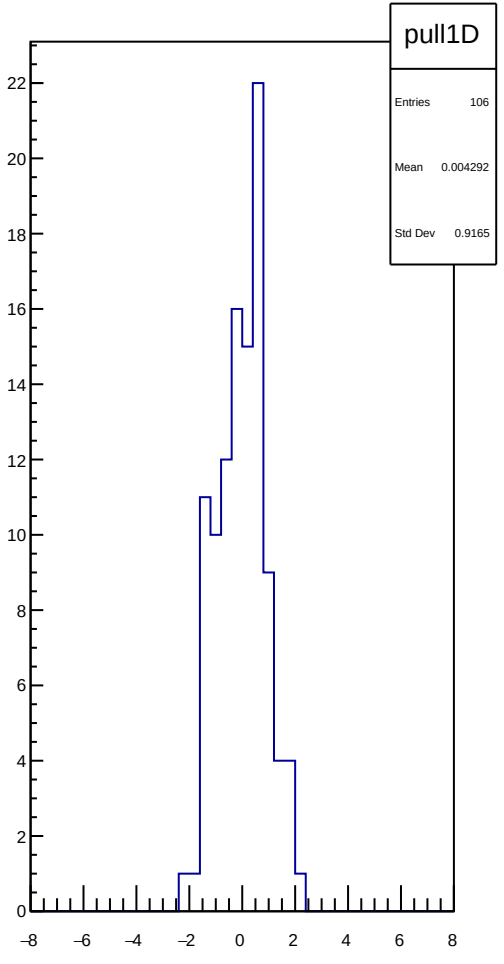

reg_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.771e+04 / 105
p0 93.65 ± 0.06613
160
150
140
130
120
110
100
90
80

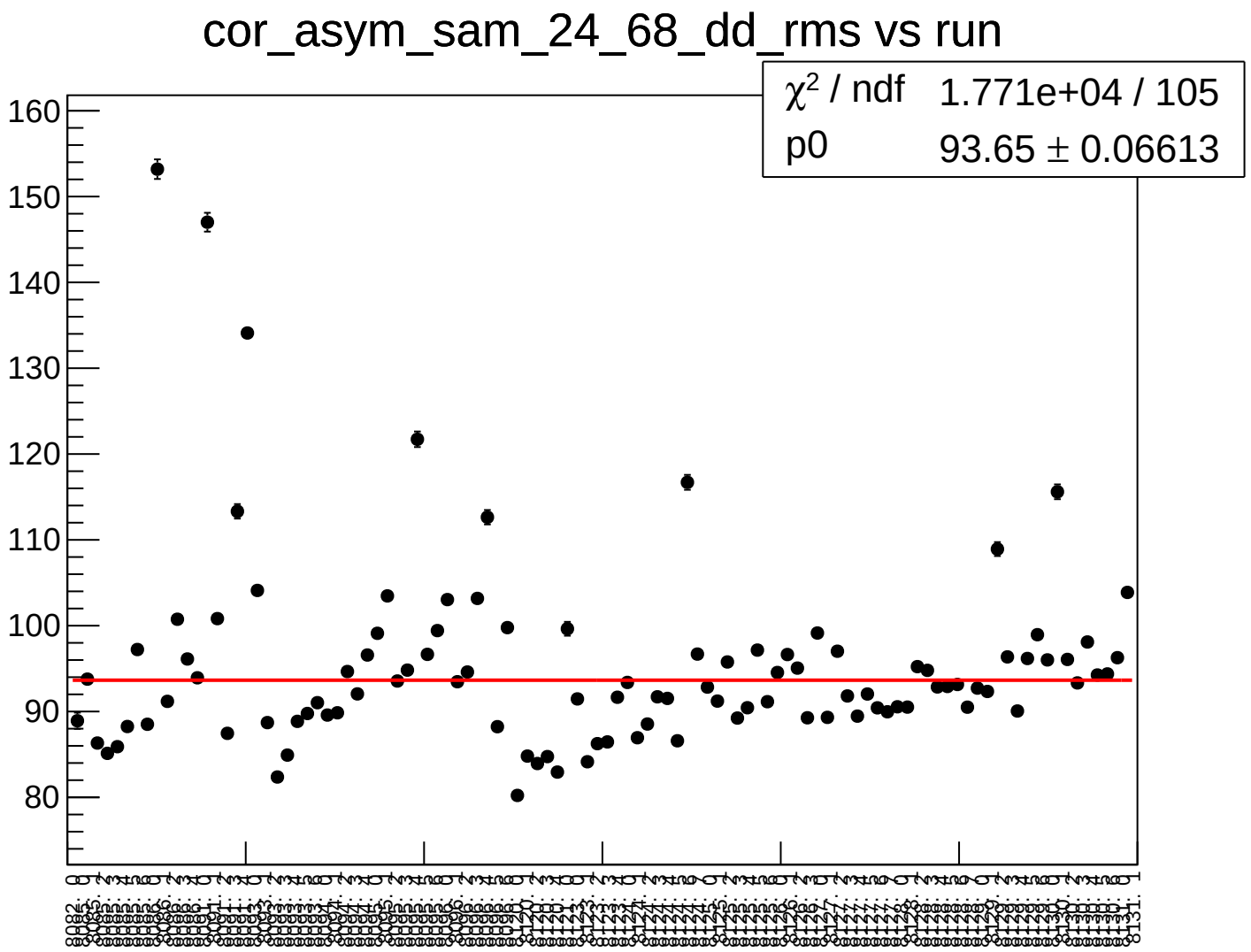

asym_sam_24_68_dd_reg_correction_mean vs run
χ² / ndf 71.68 / 105
p0 −3111 ± 2253
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 106
Mean 39.14
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

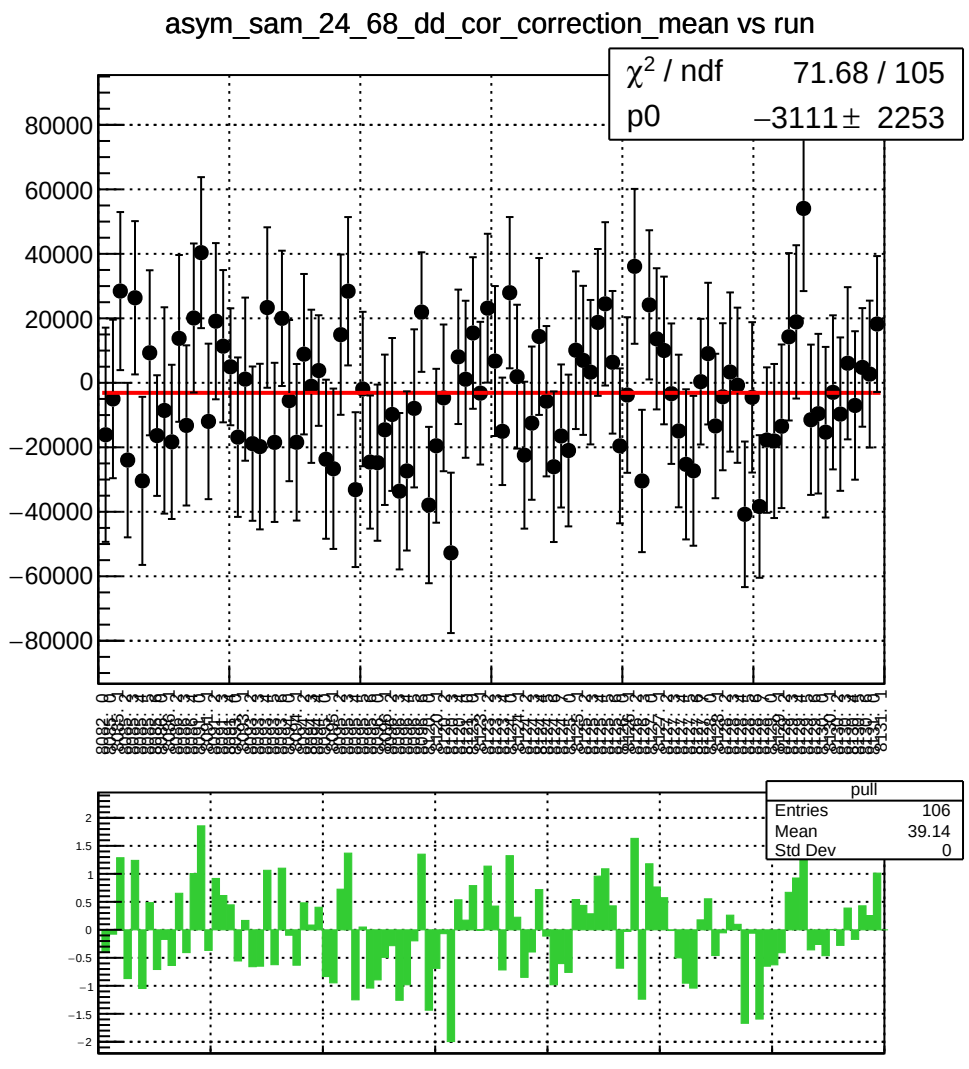

pull1D
Entries 106
Mean −0.005989
Std Dev 0.8223
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

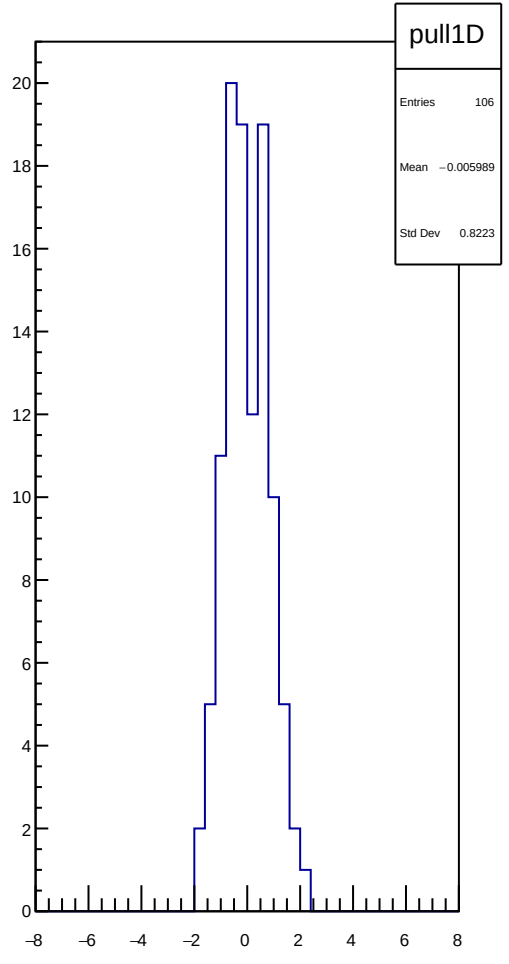

asym_sam_24_68_dd_reg_correction_rms vs run
χ² / ndf 4730 / 105
p0 2263 ± 1.593
3000
2800
2600
2400
2200
2000

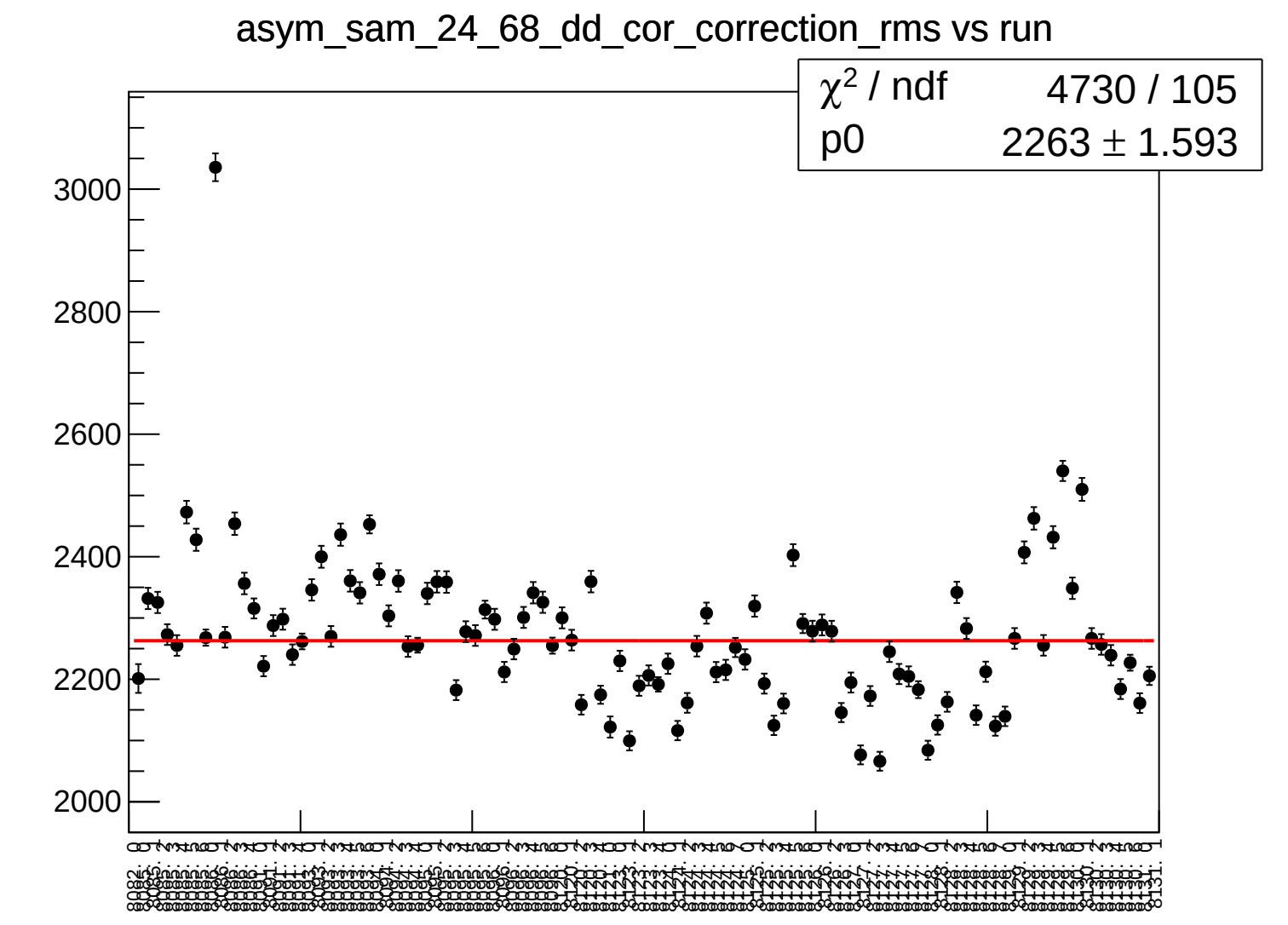

cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 89.04 / 105
p0 −7.094 ± 93.52
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 106
Mean −1612
Std Dev 0
2
1
0
−1
−2

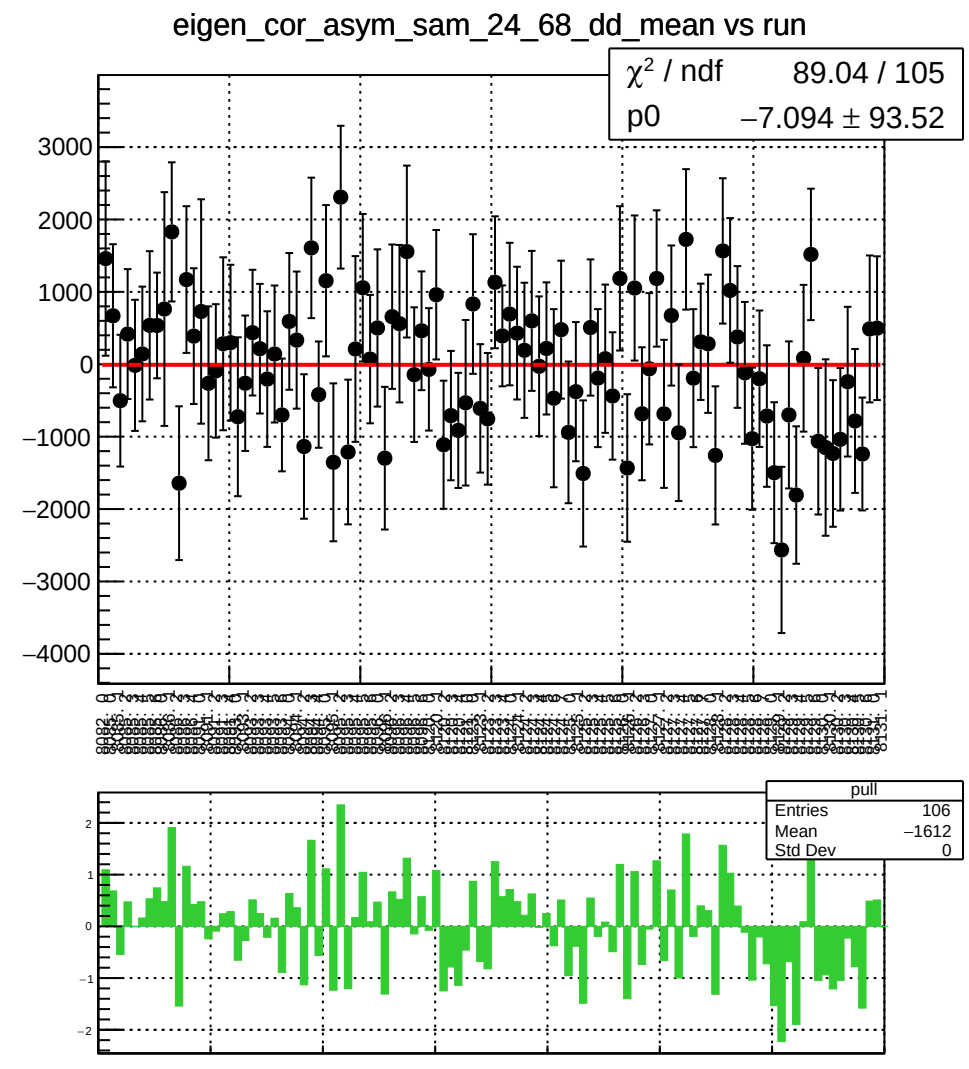

pull1D
Entries 106
Mean 0.004292
Std Dev 0.9165
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

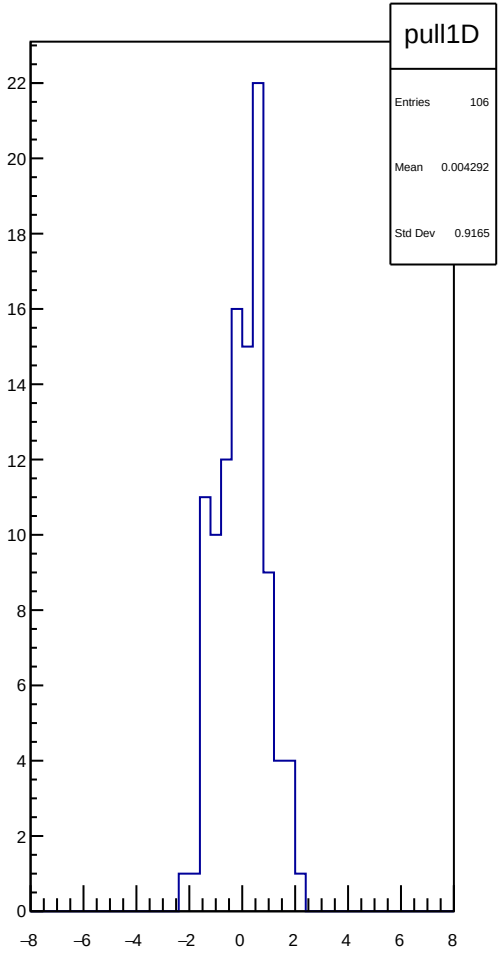

cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.771e+04 / 105
p0 93.65 ± 0.06613
160
150
140
130
120
110
100
90
80

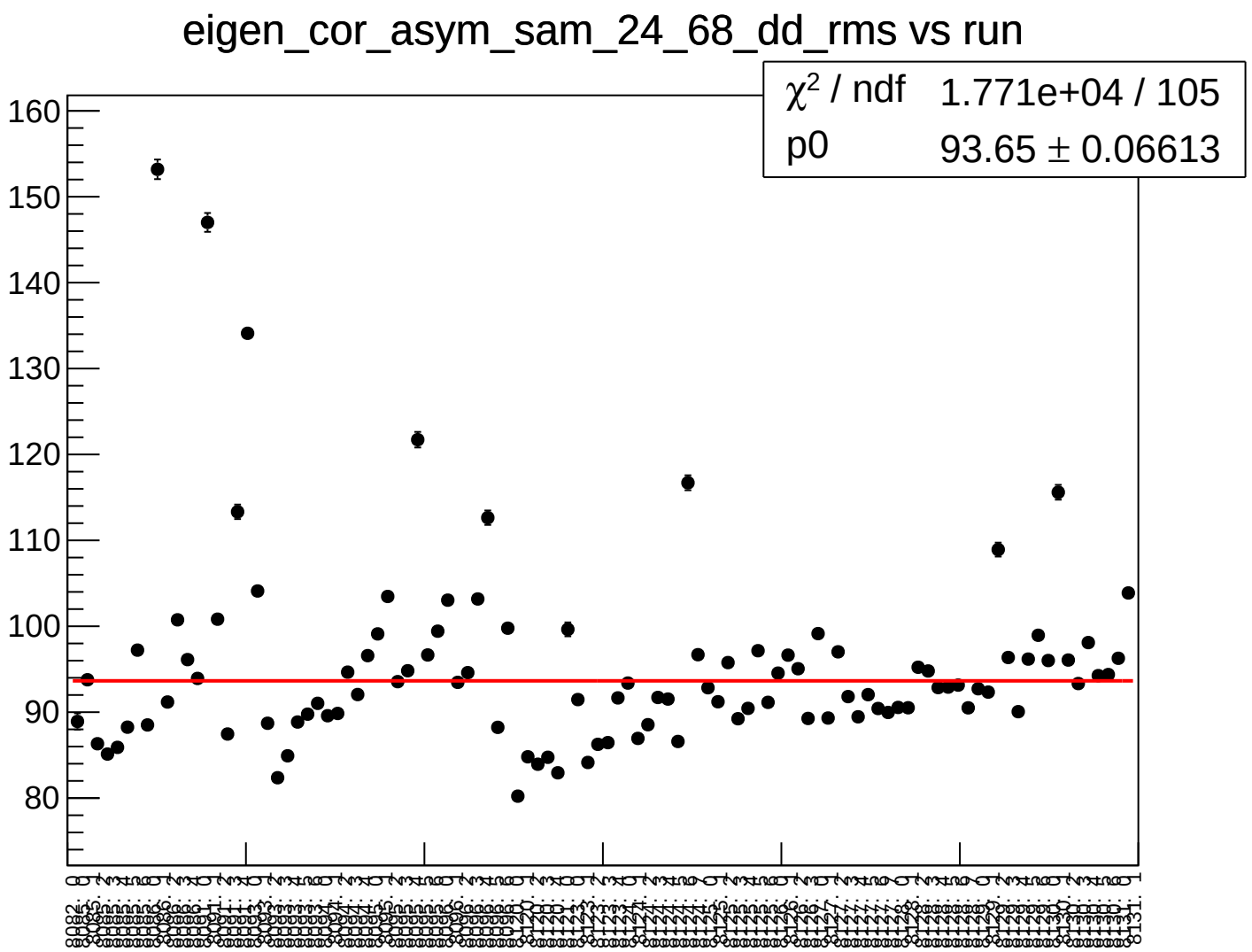

asym_sam_24_68_dd_cor_correction_mean vs run
χ² / ndf 71.68 / 105
p0 −3111 ± 2253
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 106
Mean 39.14
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

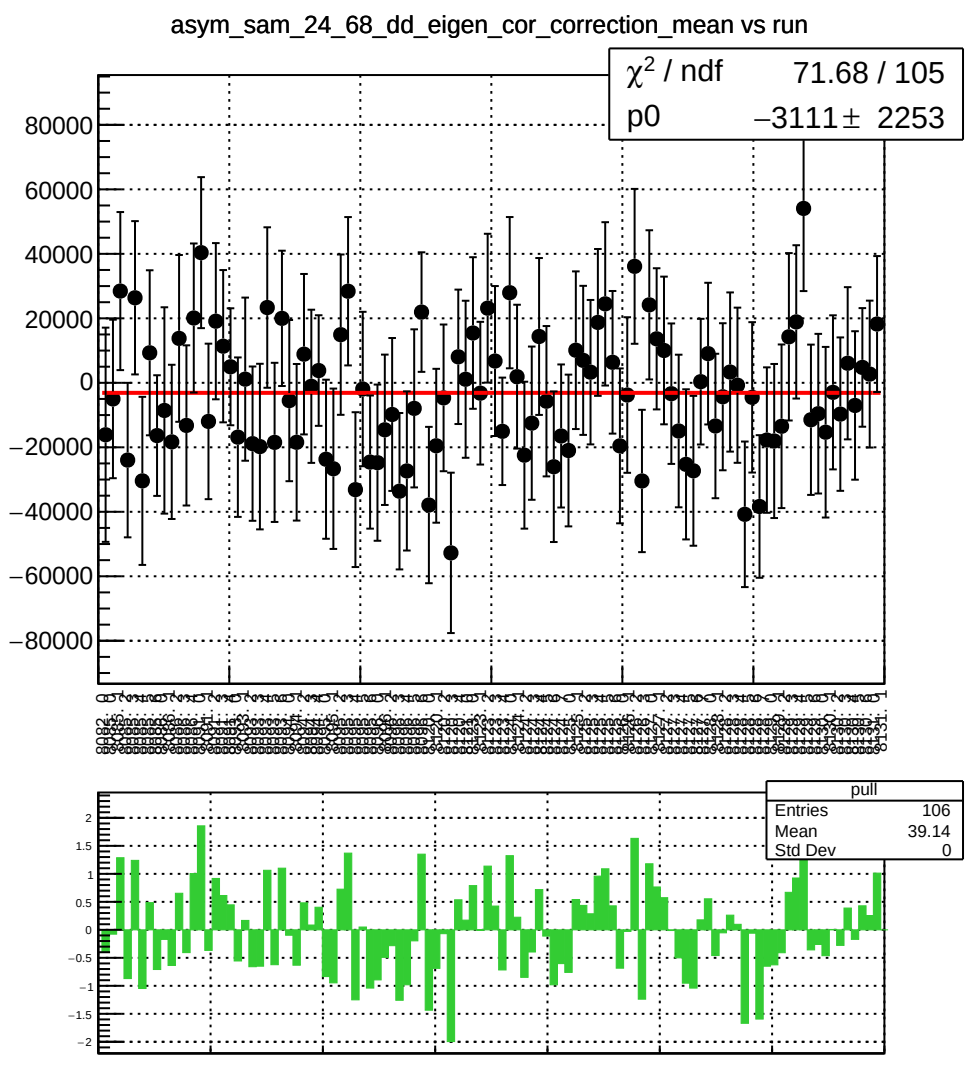

pull1D
Entries 106
Mean −0.005989
Std Dev 0.8223
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

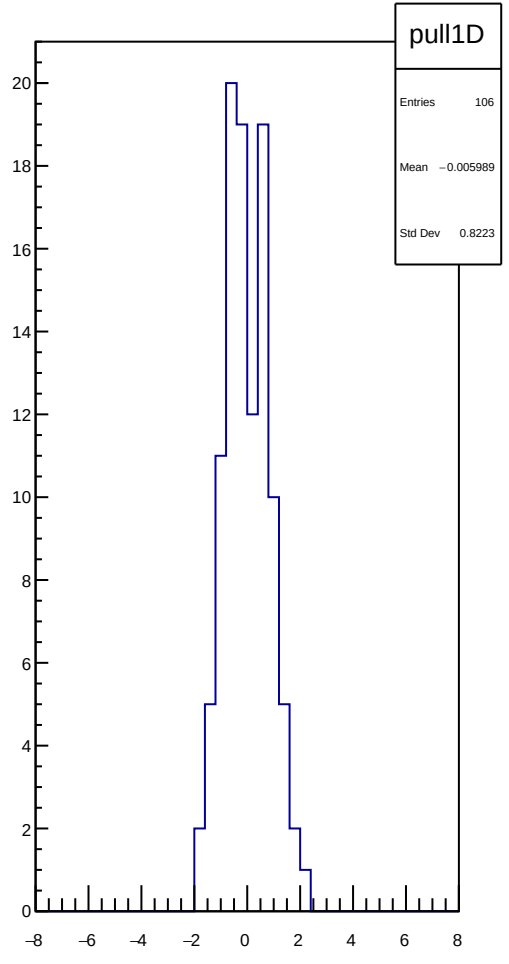

asym_sam_24_68_dd_cor_correction_rms vs run
χ² / ndf 4730 / 105
p0 2263 ± 1.593
3000
2800
2600
2400
2200
2000

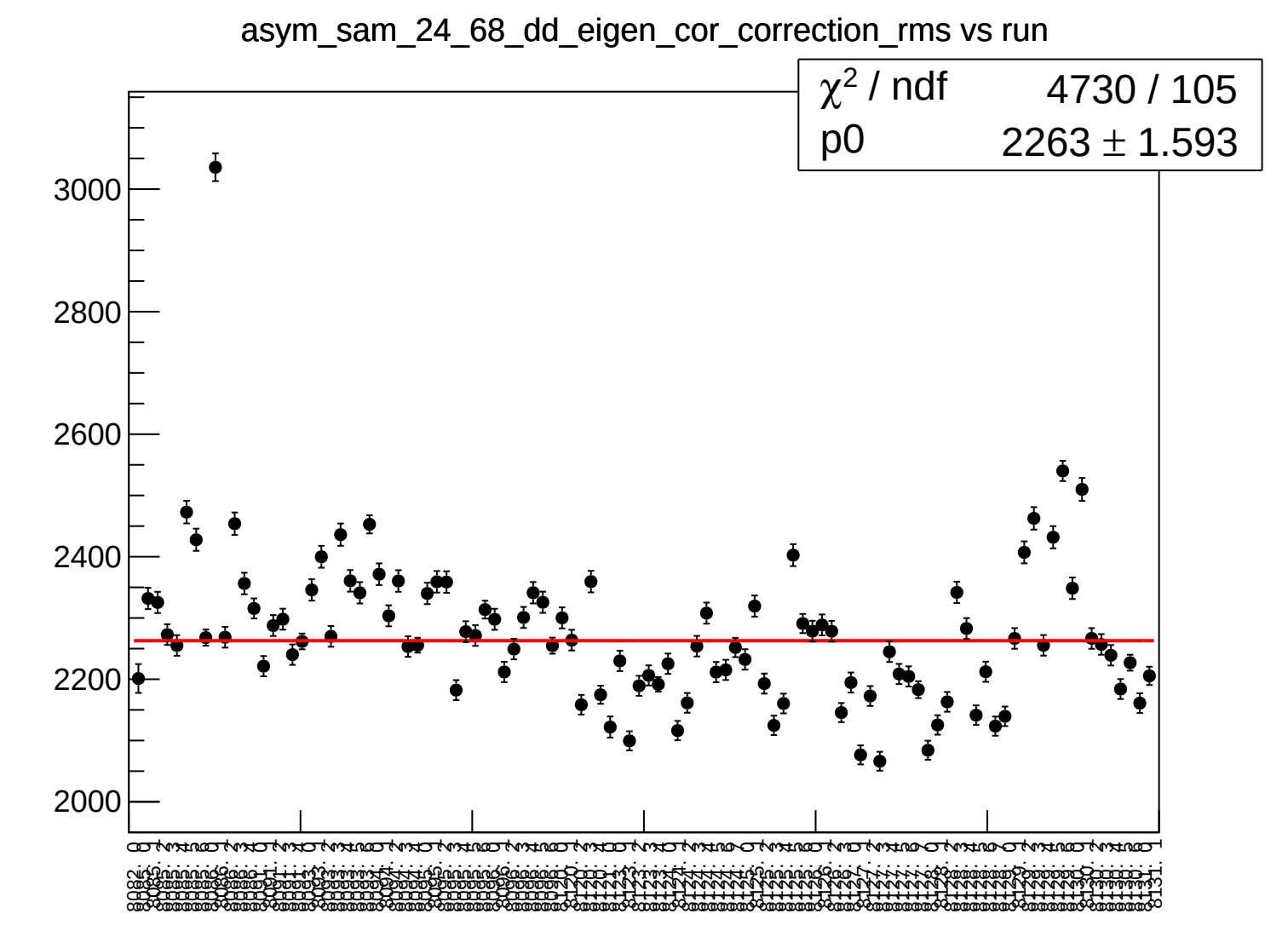

eigen_cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 89.04 / 105
p0 −7.094 ± 93.52
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 106
Mean −1612
Std Dev 0
2
1
0
−1
−2

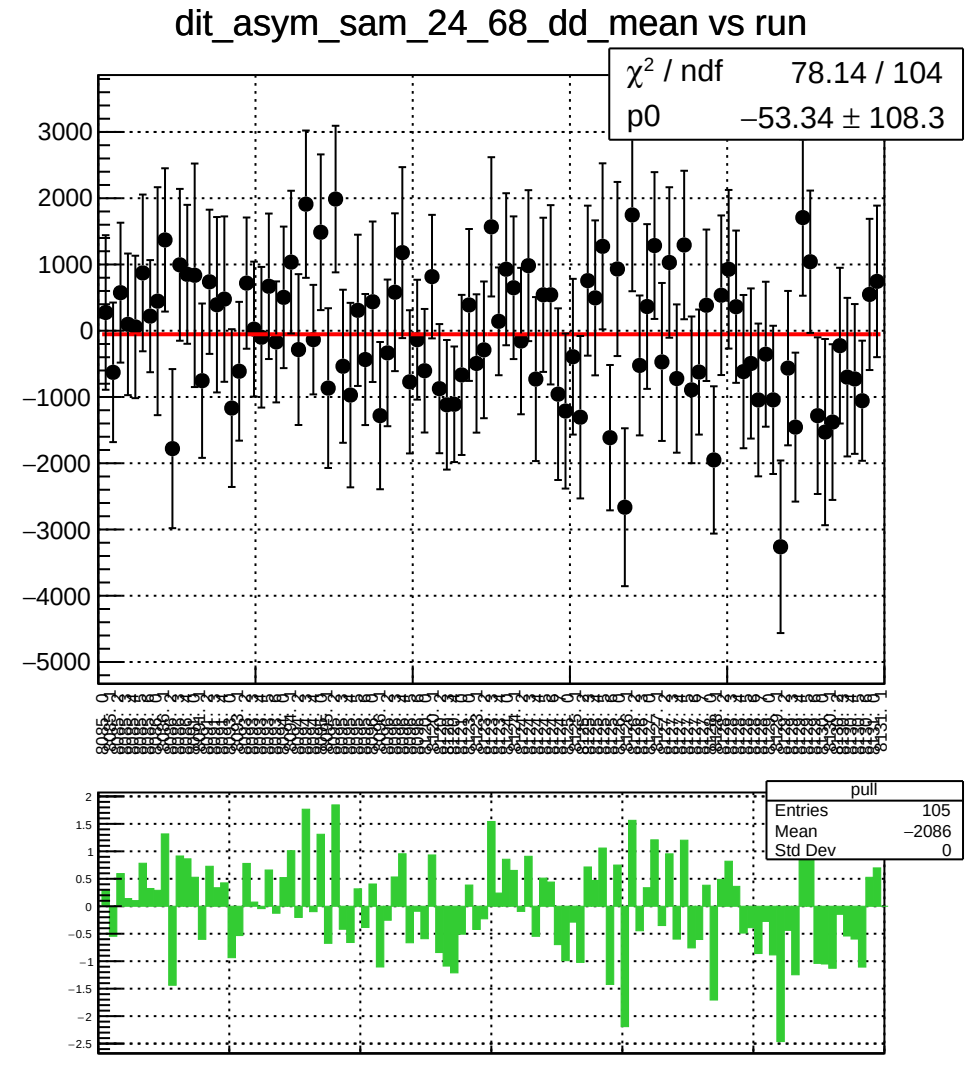

pull1D
Entries 106
Mean 0.004292
Std Dev 0.9165
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

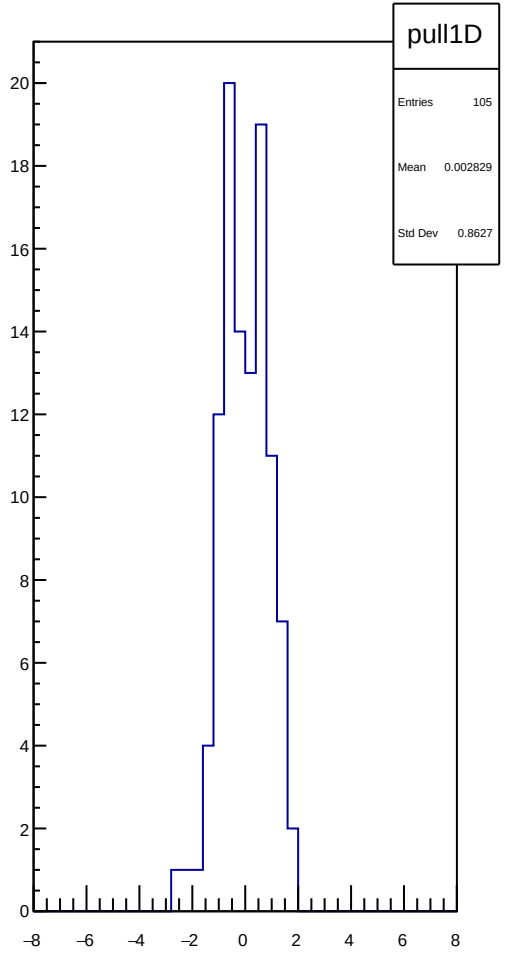

eigen_cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.771e+04 / 105
p0 93.65 ± 0.06613
160
150
140
130
120
110
100
90
80

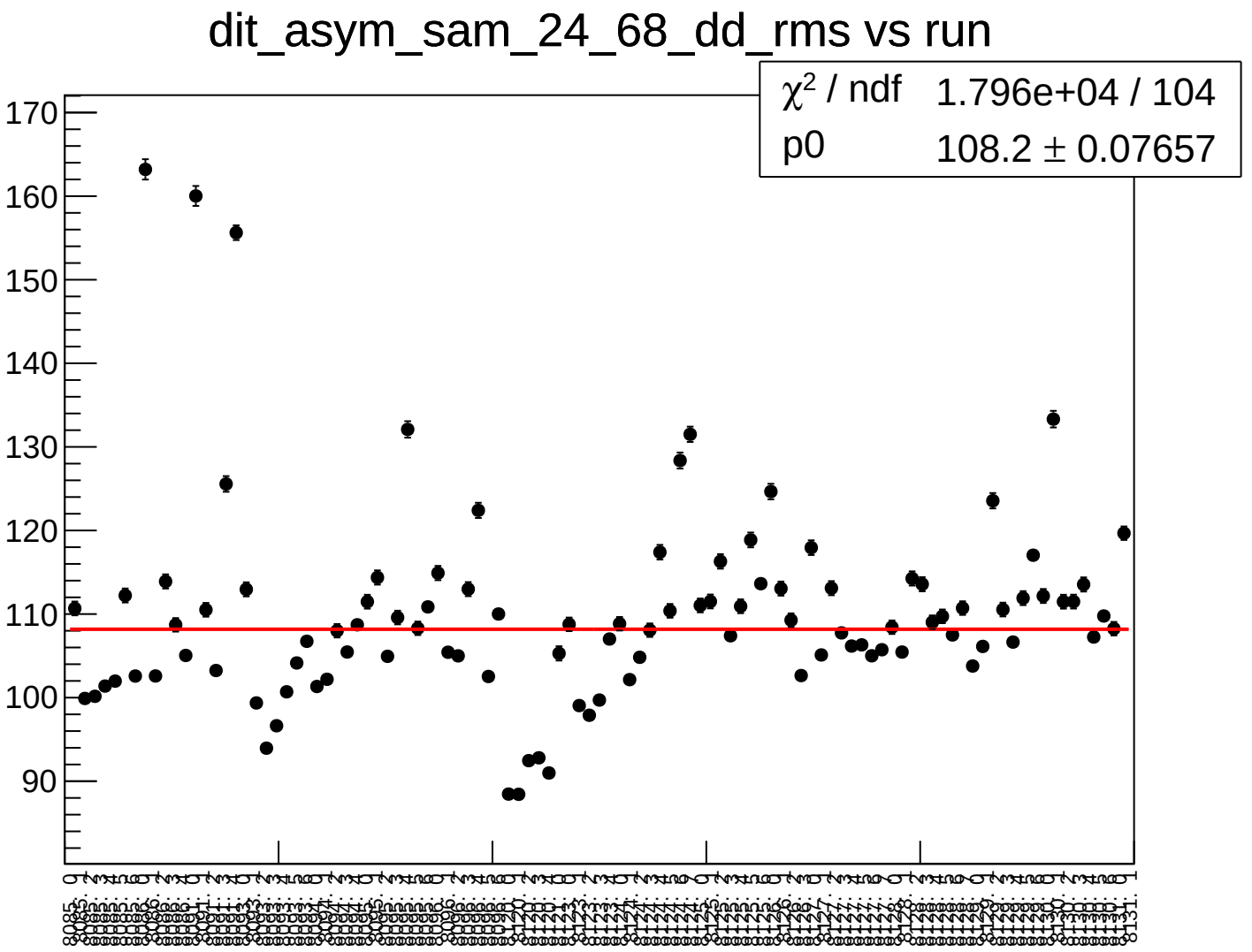

asym_sam_24_68_dd_eigen_cor_correction_mean vs run
χ² / ndf 71.68 / 105
p0 −3111 ± 2253
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 106
Mean 39.14
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

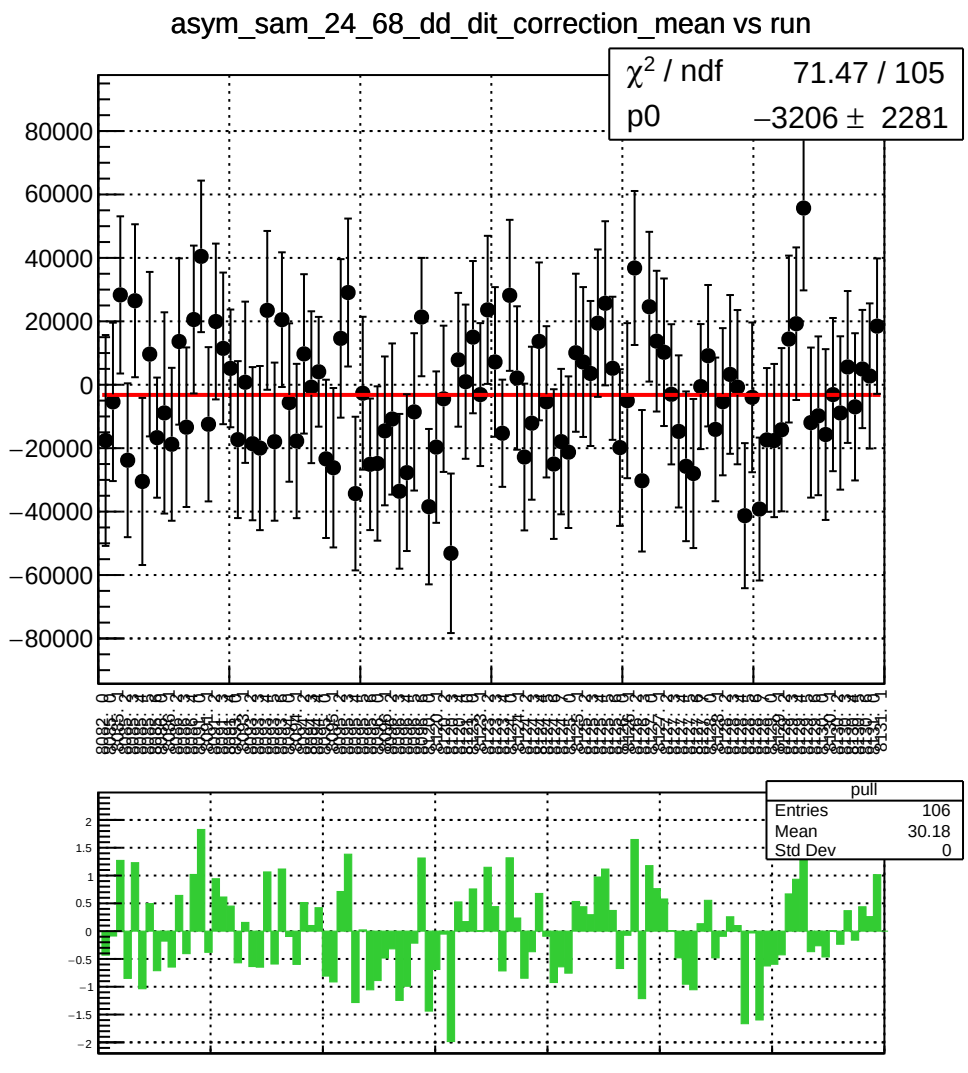

pull1D
Entries 106
Mean −0.005989
Std Dev 0.8223
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

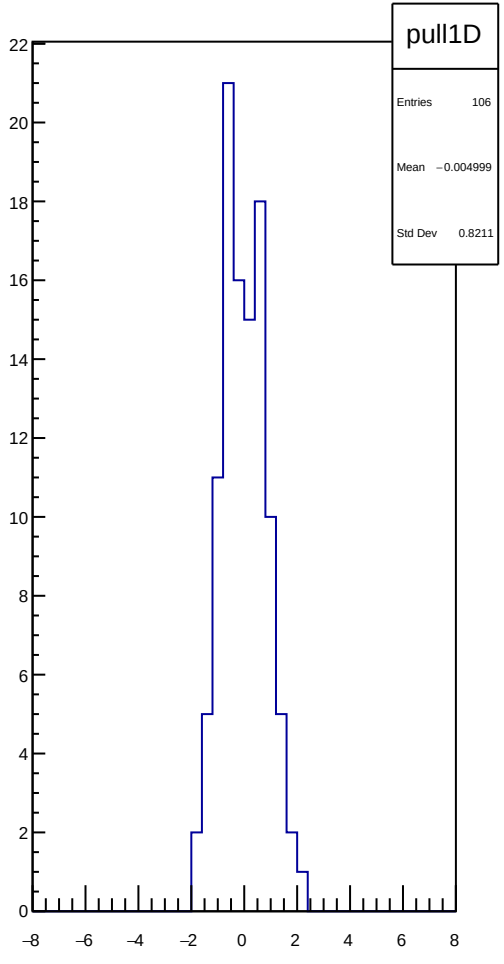

asym_sam_24_68_dd_eigen_cor_correction_rms vs run
χ² / ndf 4730 / 105
p0 2263 ± 1.593
3000
2800
2600
2400
2200
2000

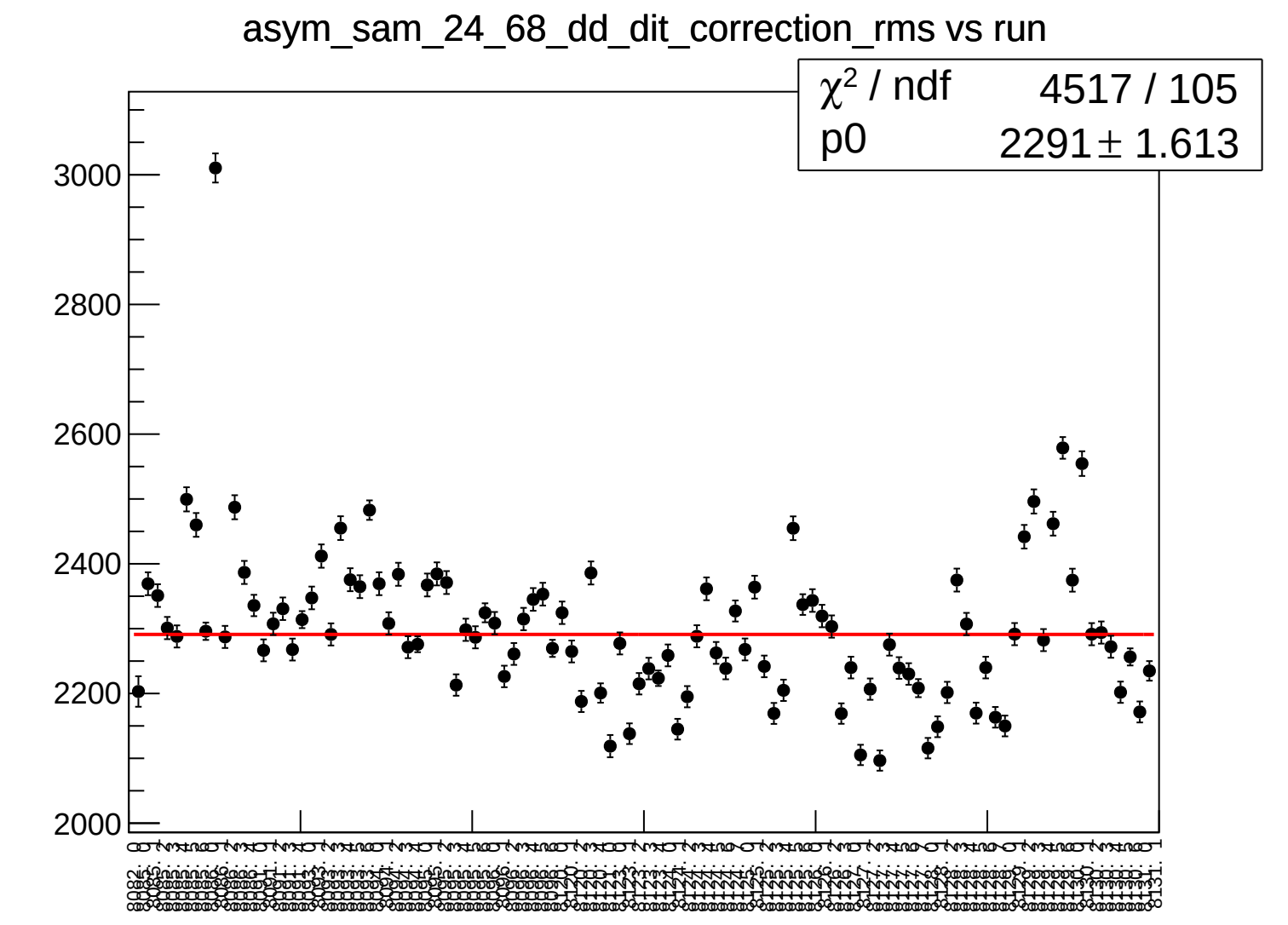

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 78.14 / 104
p0 −53.34 ± 108.3
pull
Entries 105
Mean −2086
Std Dev 0

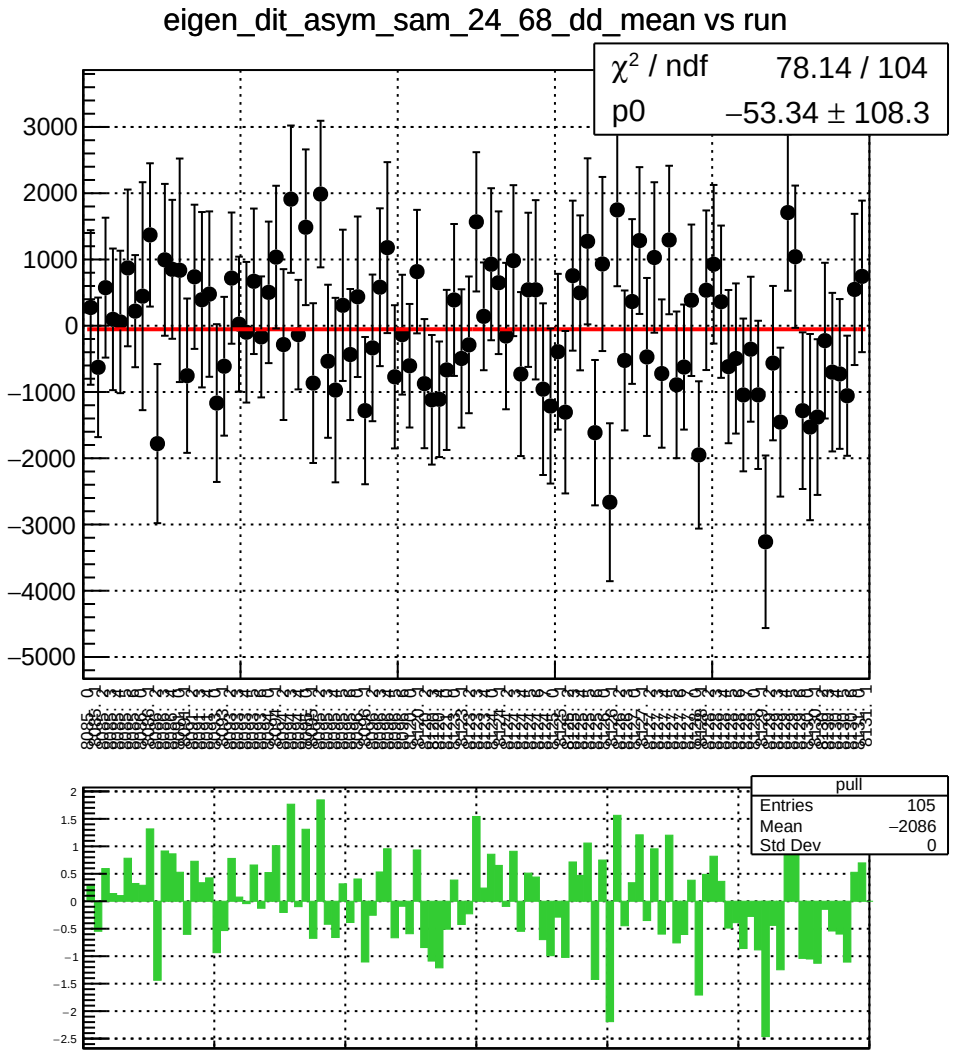

pull1D
Entries 105
Mean 0.002829
Std Dev 0.8627

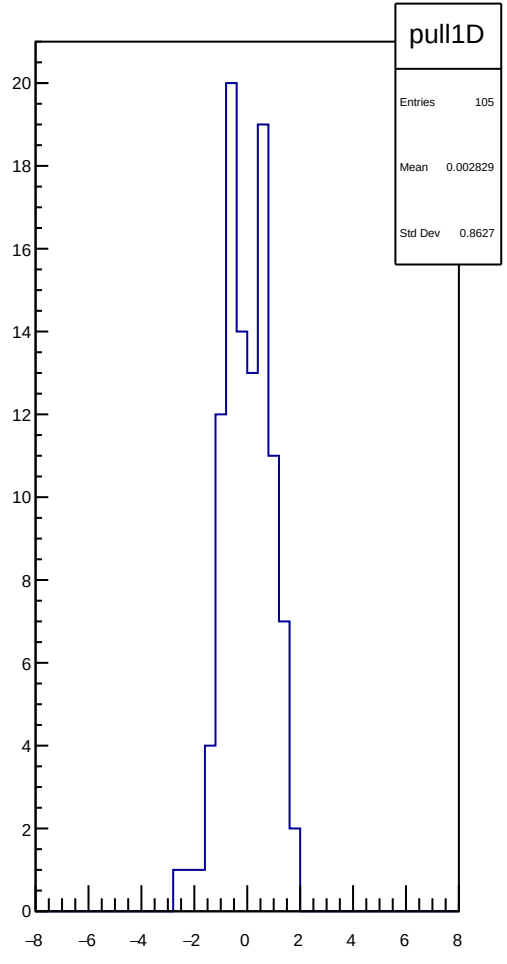

dit_asym_sam_24_68_dd_rms vs run
$\chi^2$ / ndf 1.796e+04 / 104
p0 108.2 ± 0.07657
170
160
150
140
130
120
110
100
90

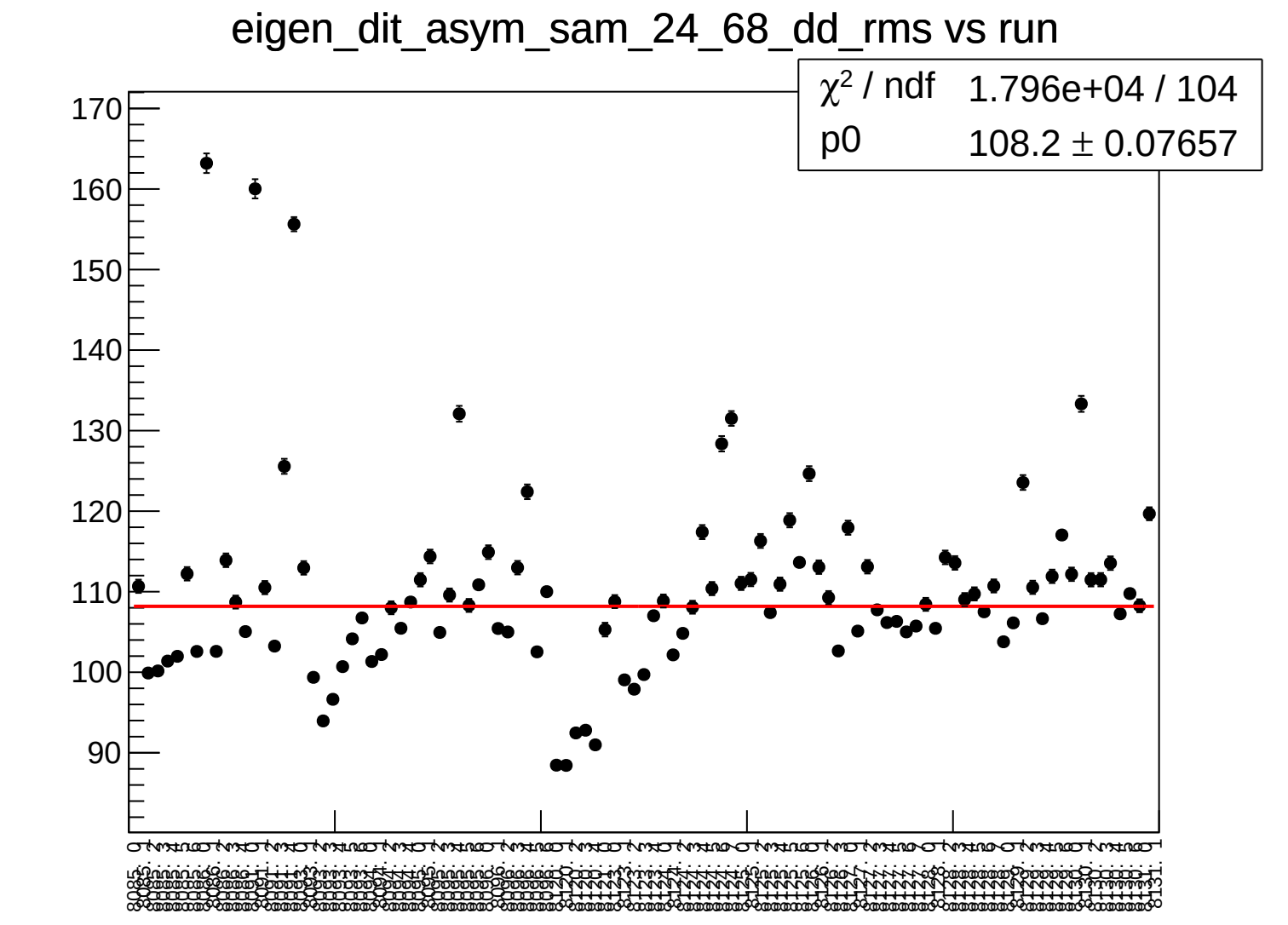

asym_sam_24_68_dd_dit_correction_mean vs run
χ² / ndf 71.47 / 105
p0 −3206 ± 2281
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 106
Mean 30.18
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

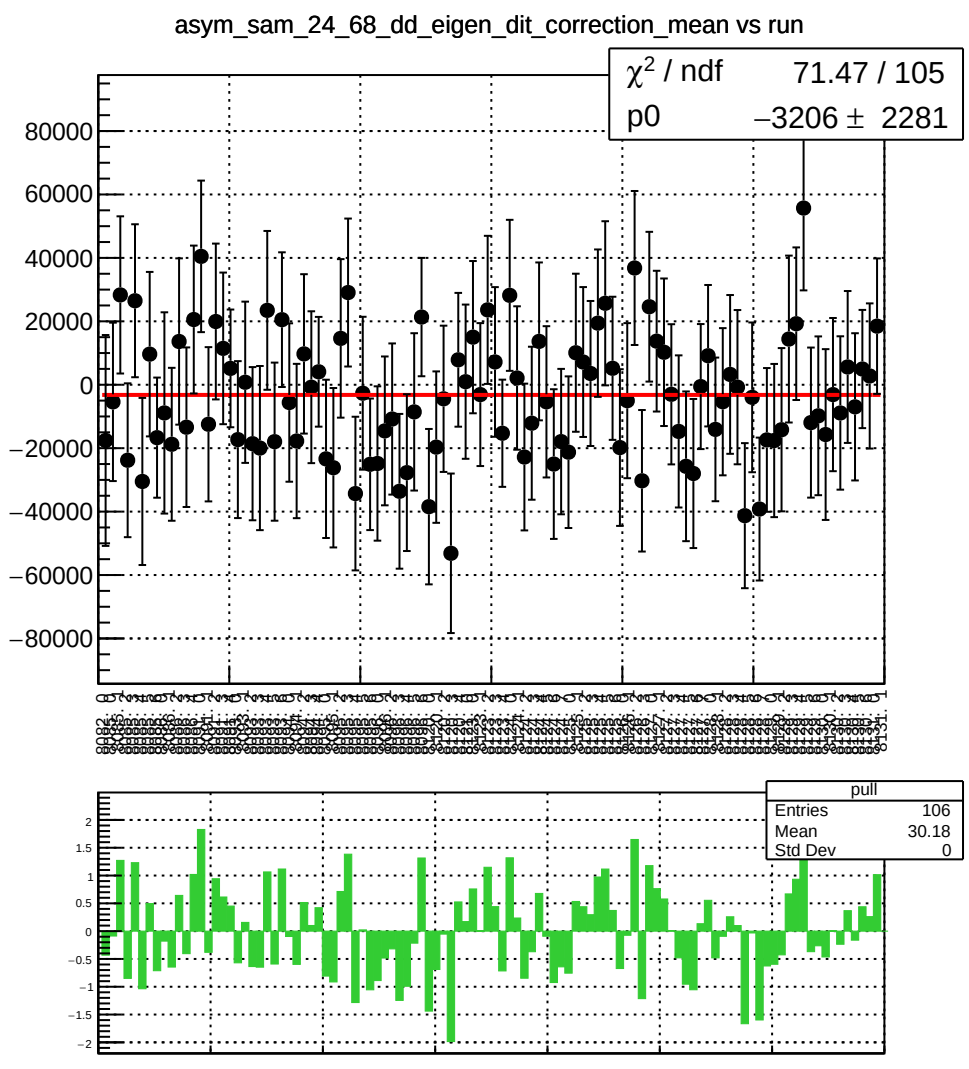

pull1D
Entries 106
Mean −0.004999
Std Dev 0.8211
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

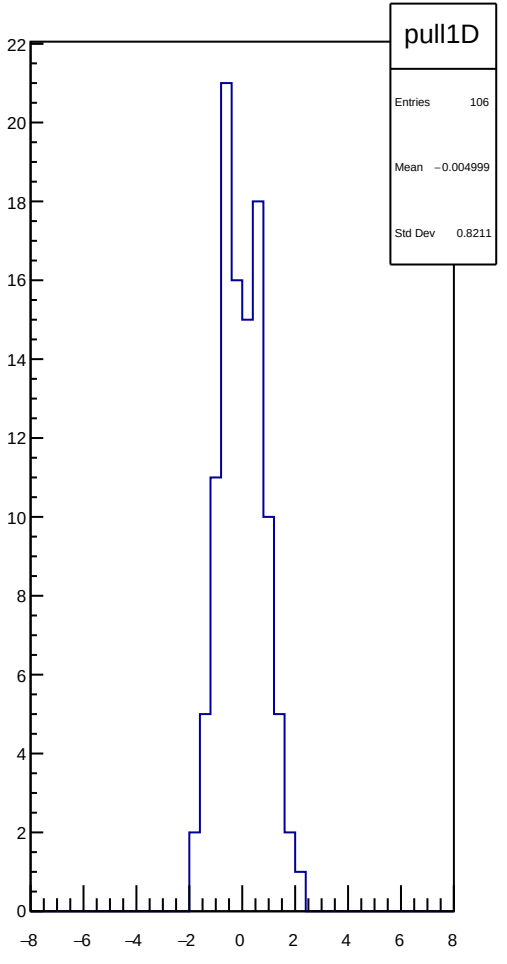

asym_sam_24_68_dd_dit_correction_rms vs run
χ² / ndf 4517 / 105
p0 2291 ± 1.613
3000
2800
2600
2400
2200
2000

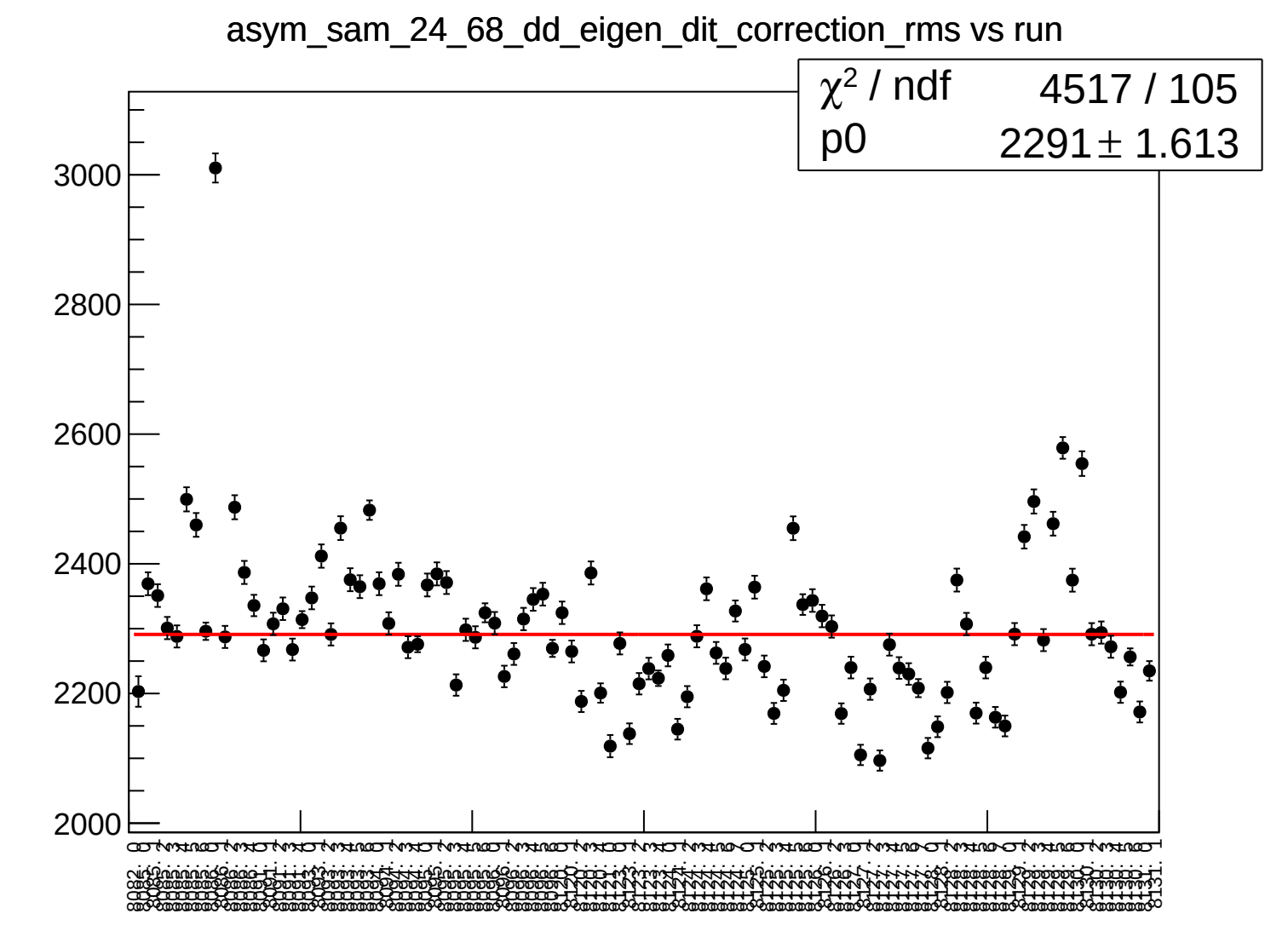

eigen_dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 78.14 / 104
p0 −53.34 ± 108.3
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
pull
Entries 105
Mean −2086
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

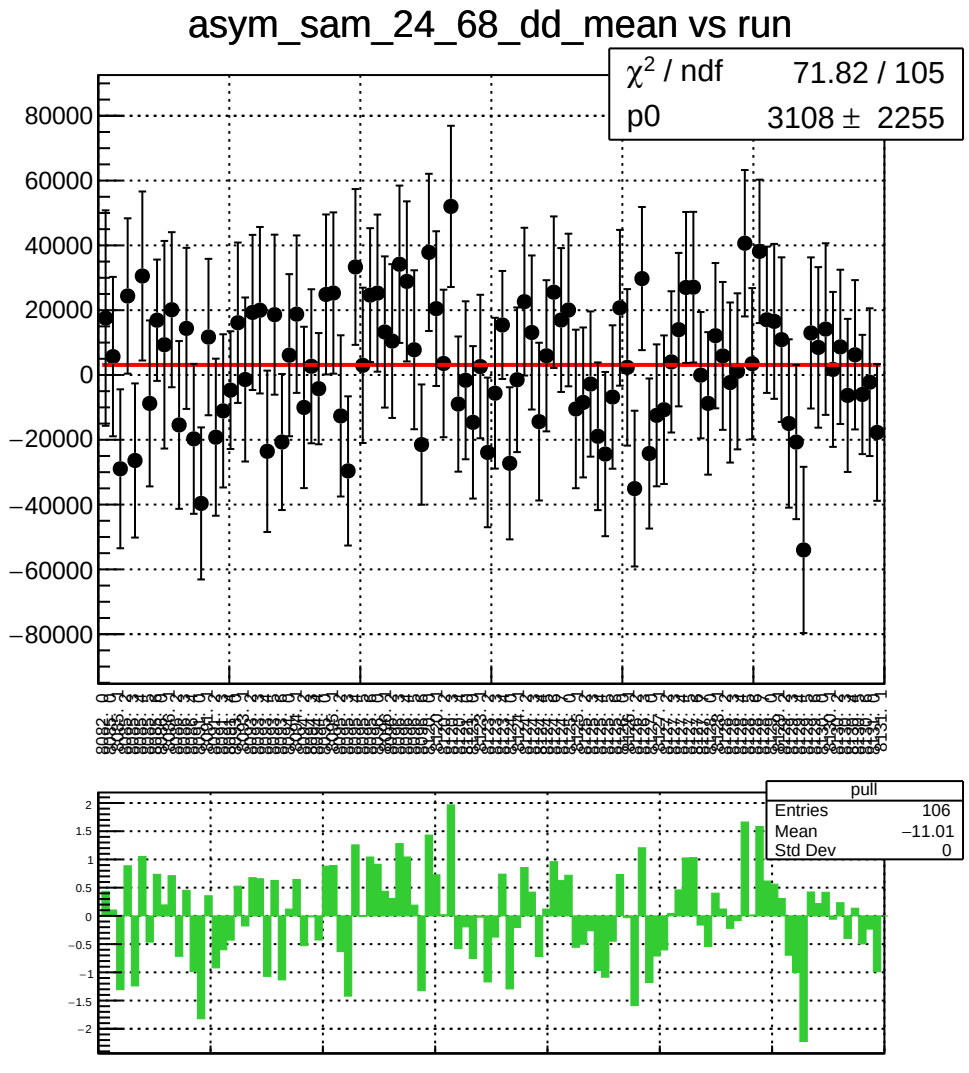

pull1D
Entries 105
Mean 0.002829
Std Dev 0.8627
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

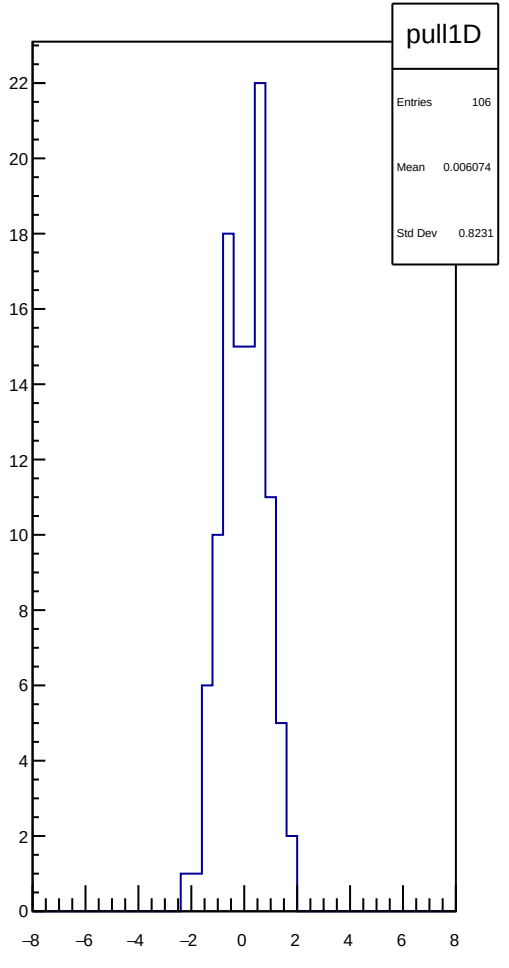

eigen_dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.796e+04 / 104
p0 108.2 ± 0.07657
170
160
150
140
130
120
110
100
90


asym_sam_24_68_dd_eigen_dit_correction_mean vs run
χ² / ndf 71.47 / 105
p0 −3206 ± 2281
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 106
Mean 30.18
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

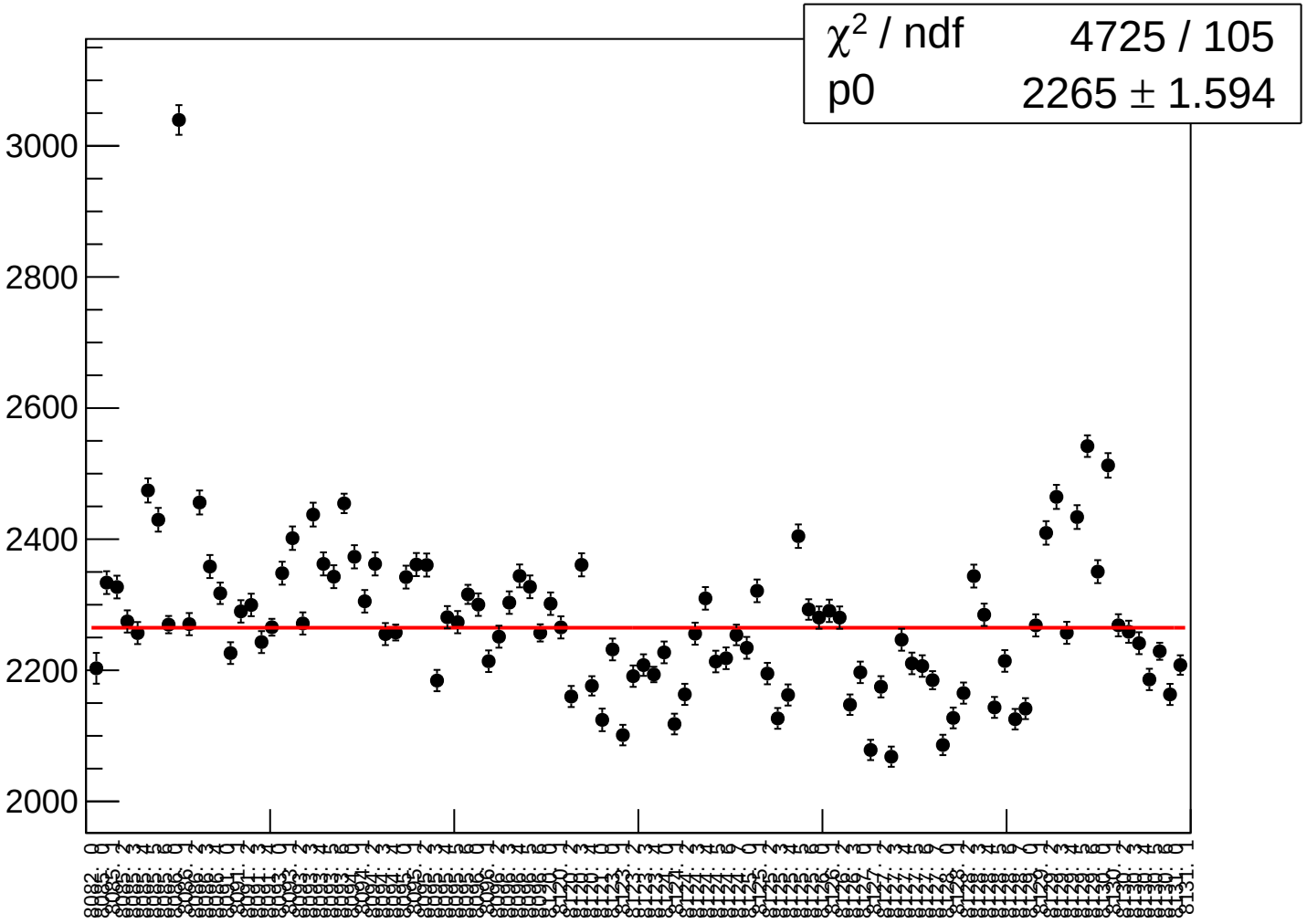

pull1D
Entries 106
Mean −0.004999
Std Dev 0.8211
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

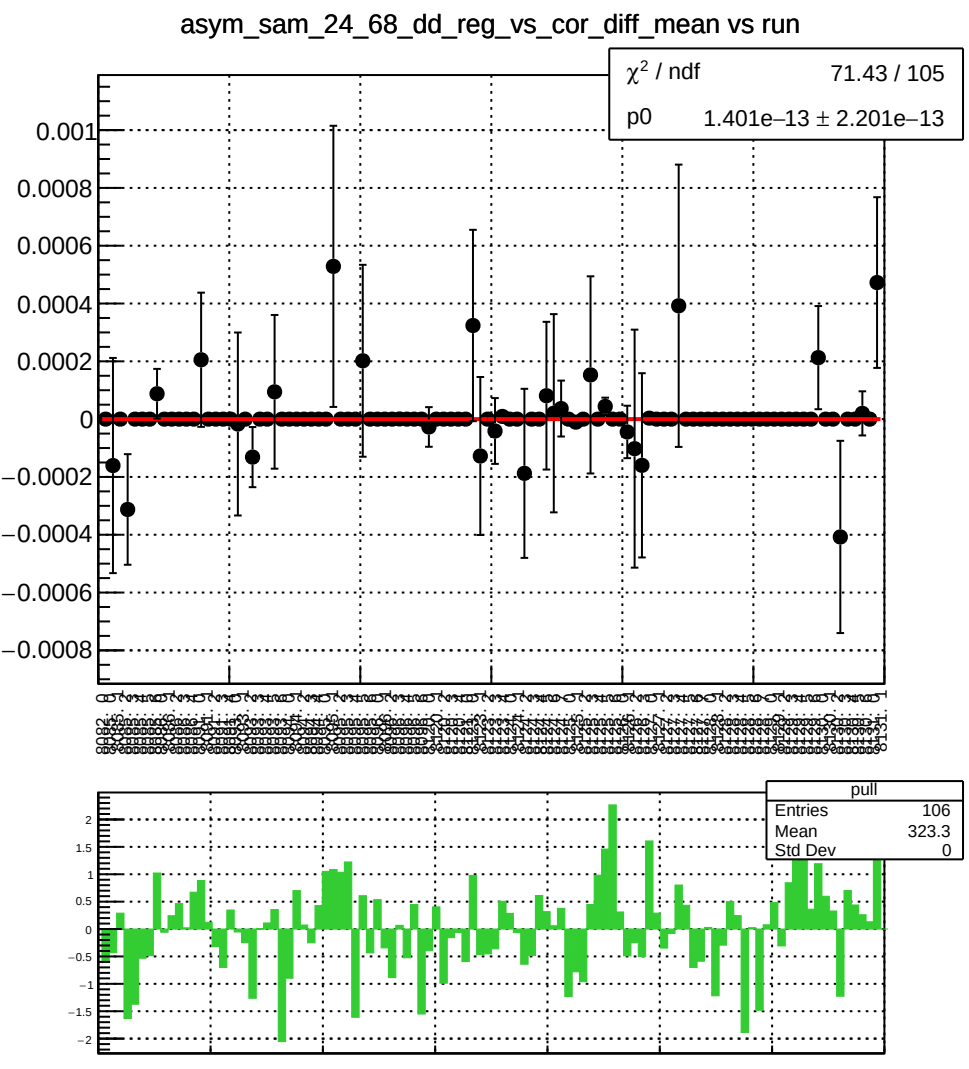

asym_sam_24_68_dd_eigen_dit_correction_rms vs run
χ² / ndf 4517 / 105
p0 2291 ± 1.613
3000
2800
2600
2400
2200
2000

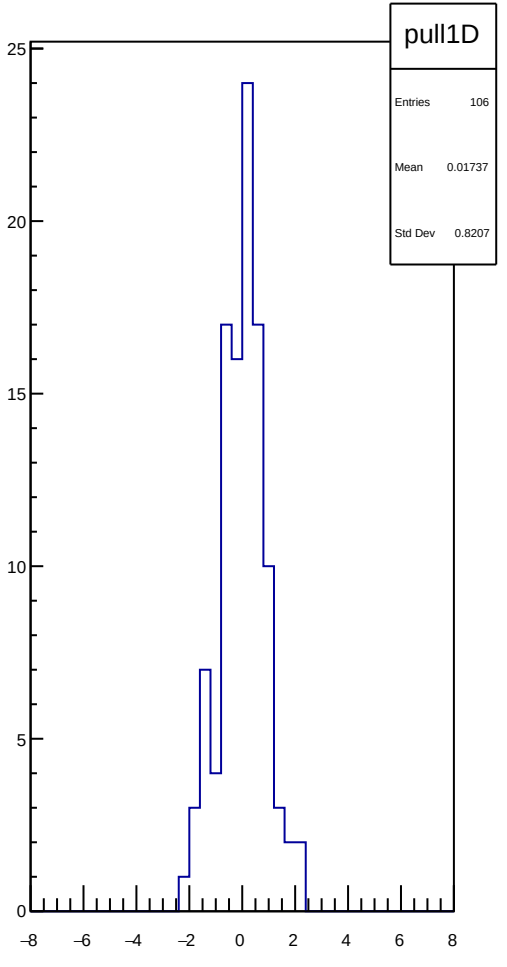

asym_sam_24_68_dd_mean vs run
χ² / ndf 71.82 / 105
p0 3108 ± 2255
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 106
Mean −11.01
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

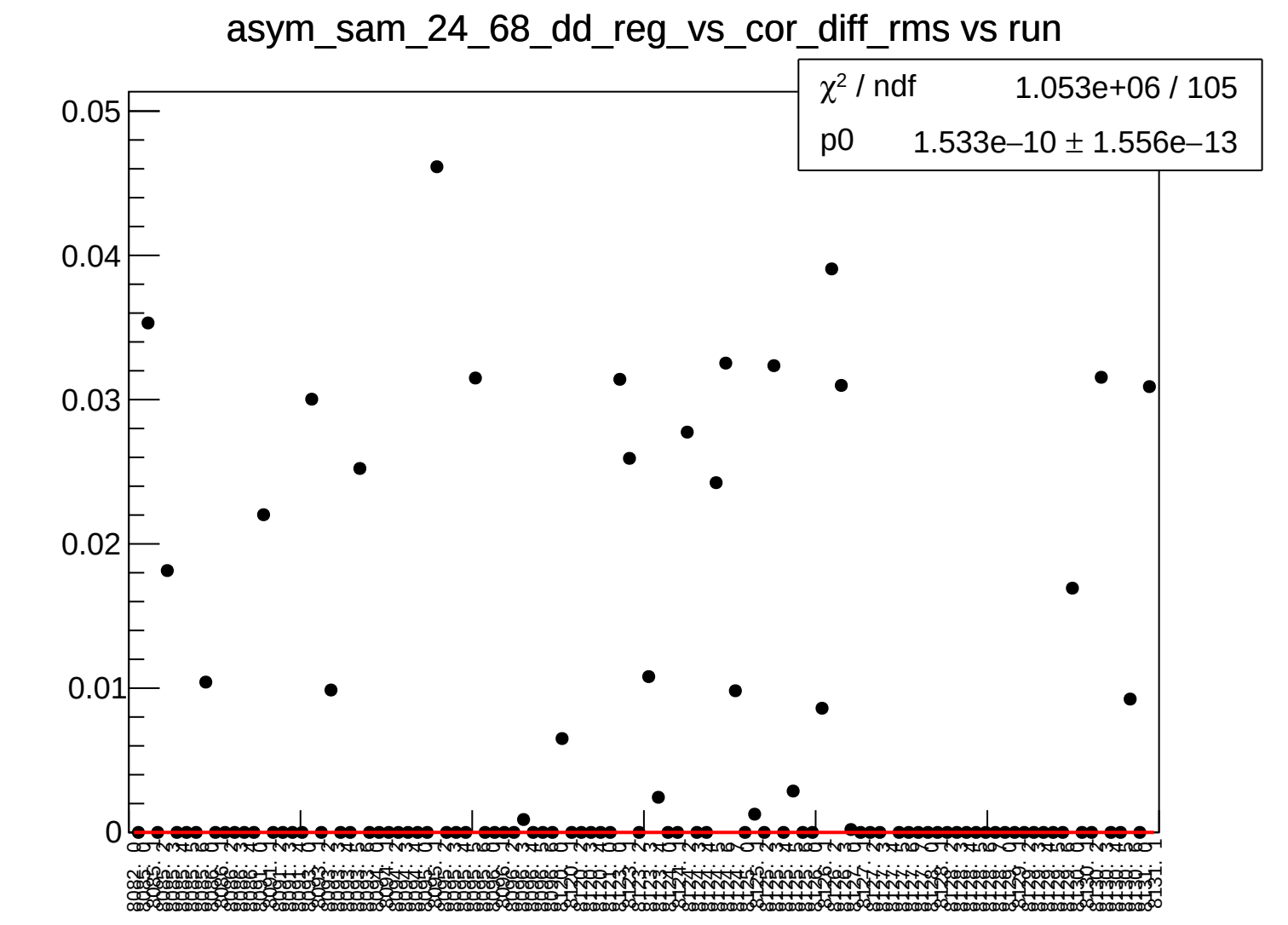

pull1D
Entries 106
Mean 0.006074
Std Dev 0.8231
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

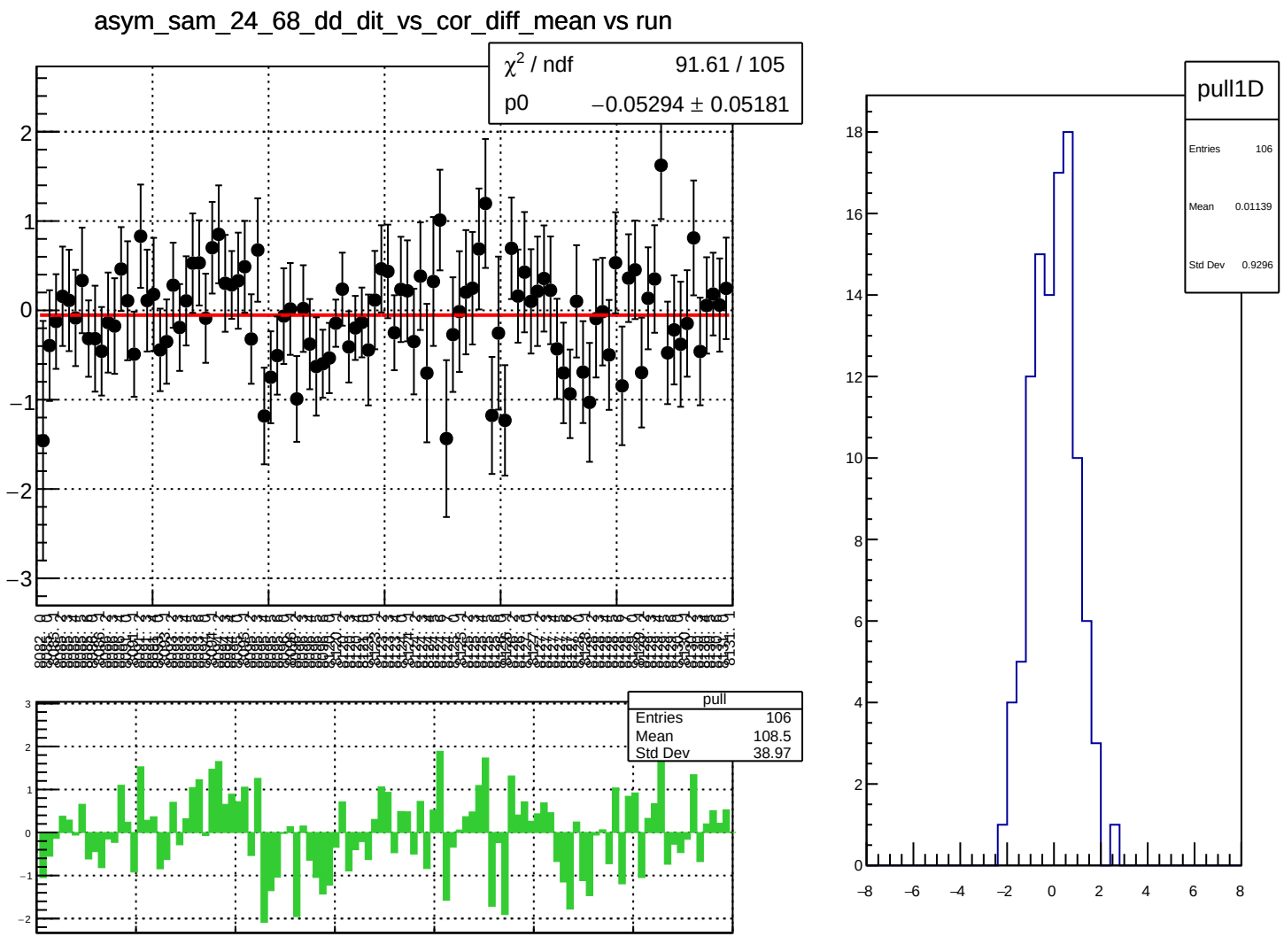
# asym_sam_24_68_dd_rms vs run

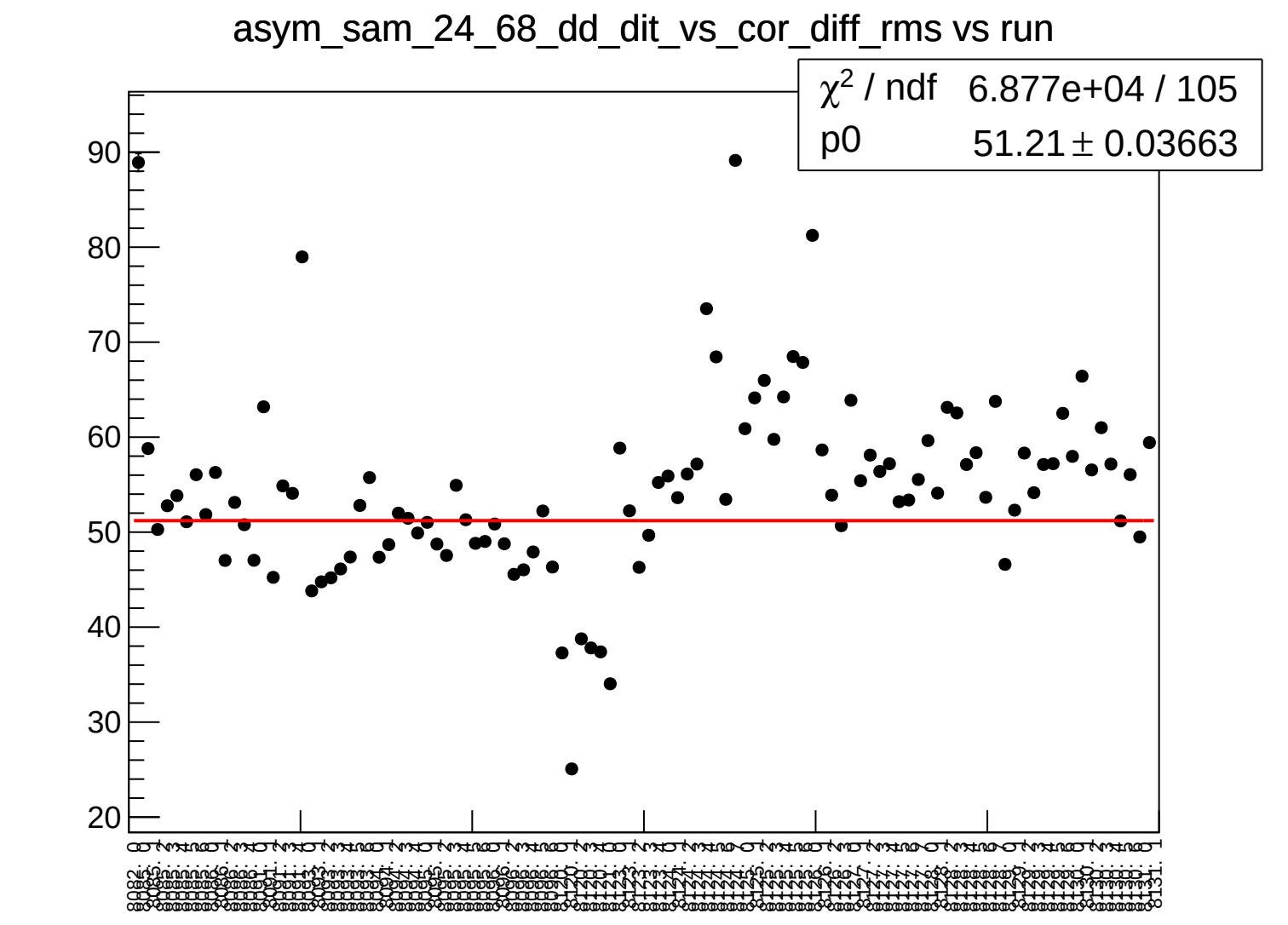


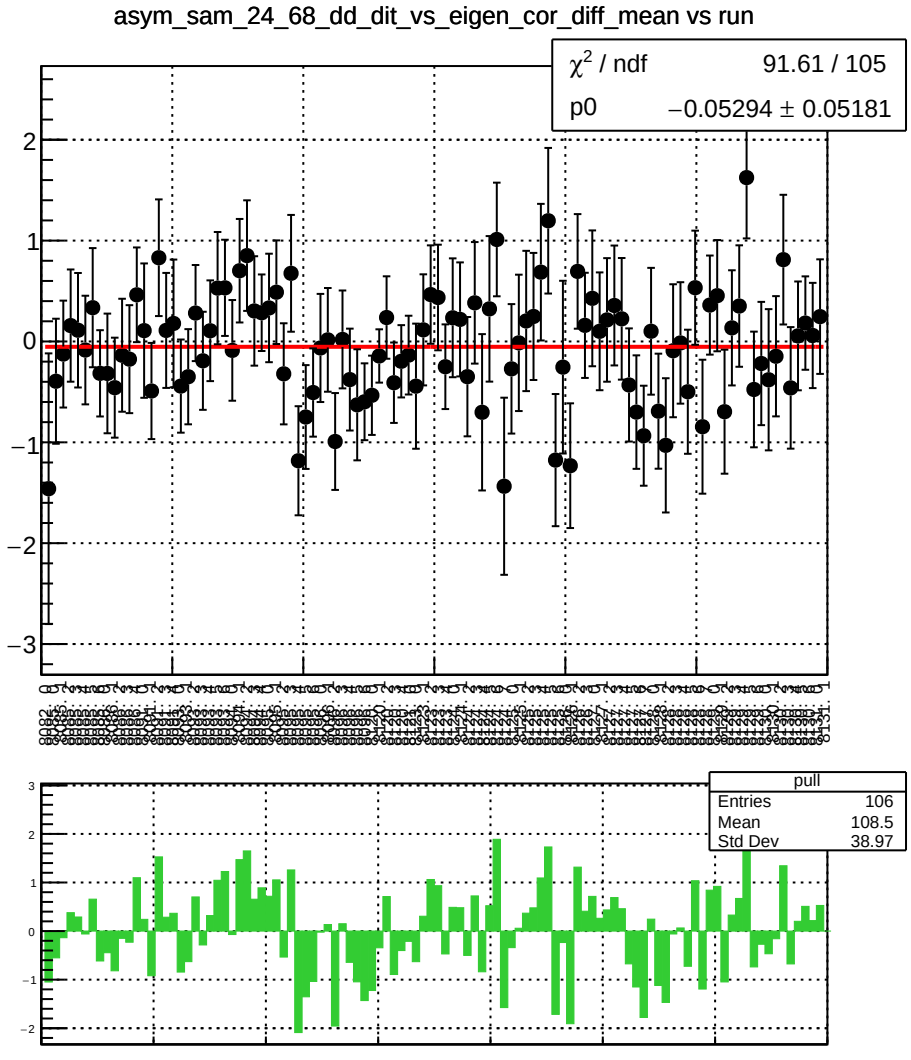

asym_sam_24_68_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 71.43 / 105
p0 1.401e−13 ± 2.201e−13
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
pull
Entries 106
Mean 323.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

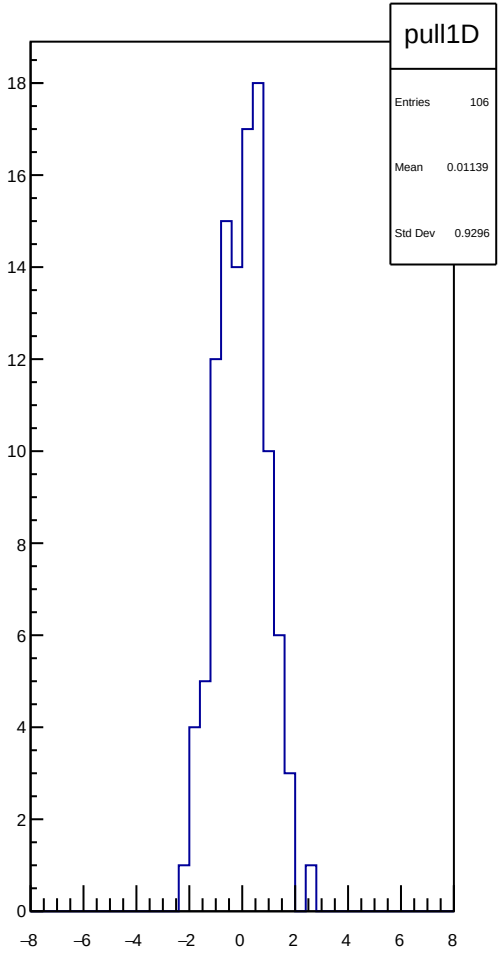

pull1D
Entries 106
Mean 0.01737
Std Dev 0.8207
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

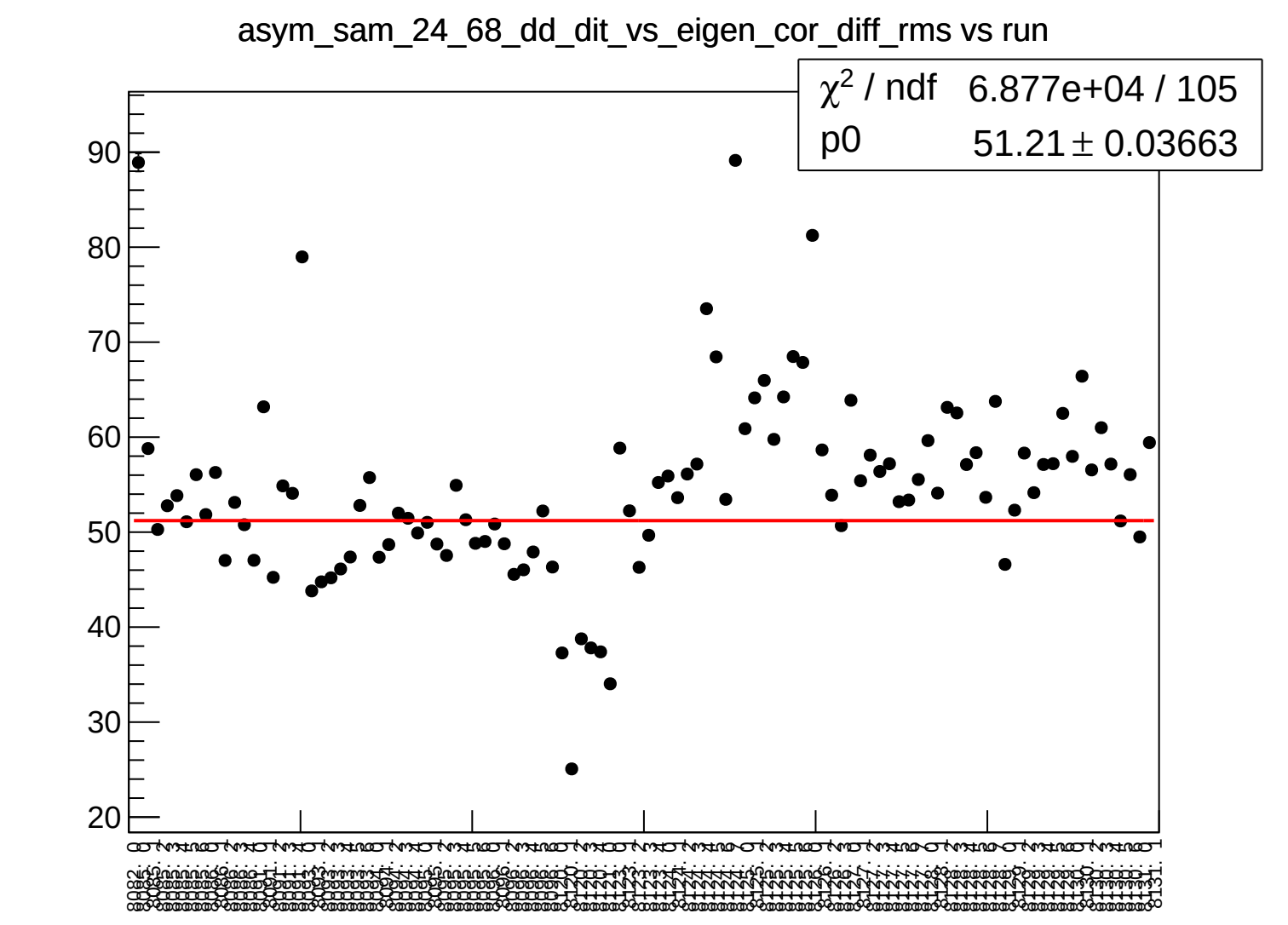

asym_sam_24_68_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.053e+06 / 105
p0 1.533e−10 ± 1.556e−13
0.05
0.04
0.03
0.02
0.01
0

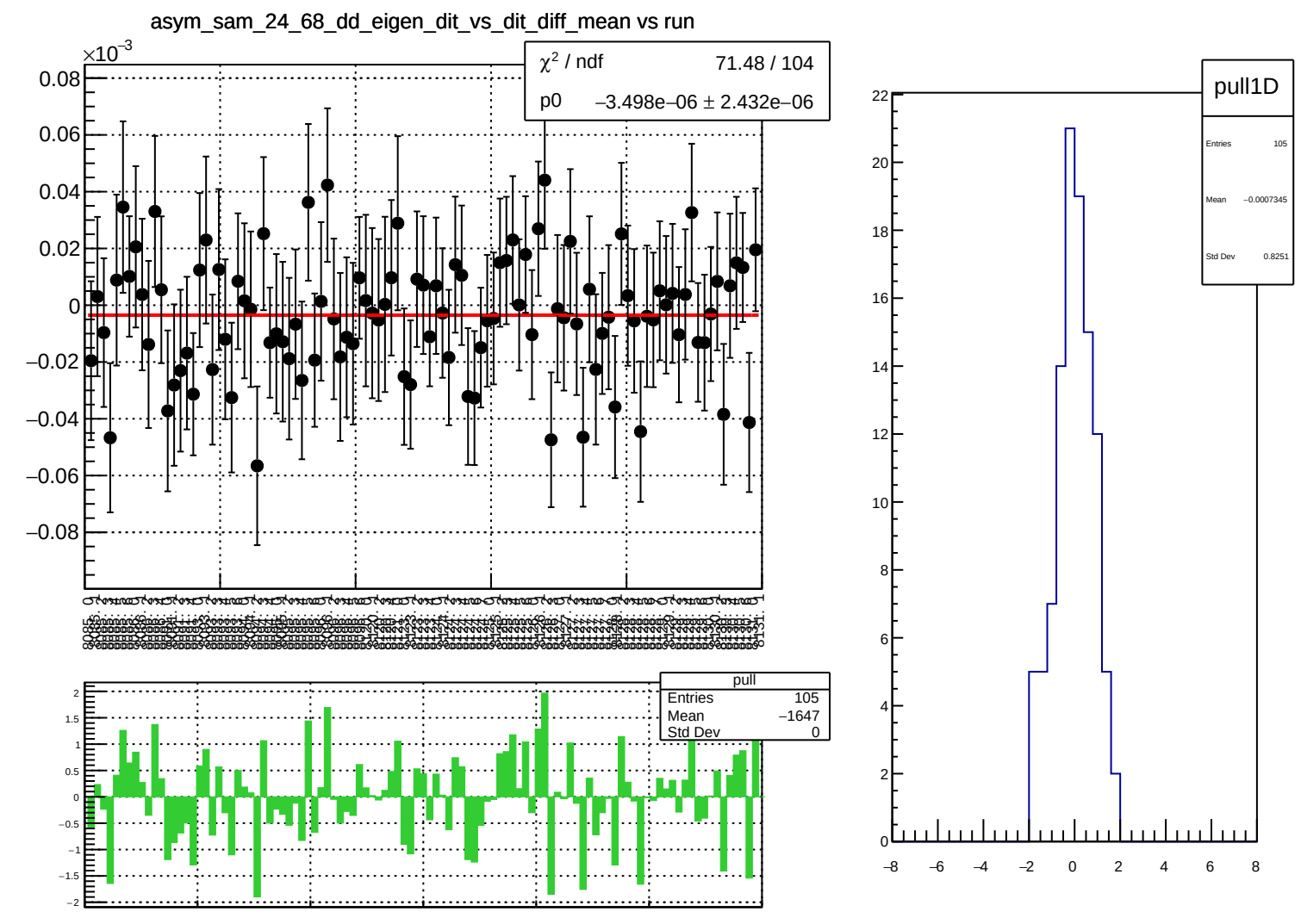

asym_sam_24_68_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 91.61 / 105
p0 −0.05294 ± 0.05181
pull
Entries 106
Mean 108.5
Std Dev 38.97
pull1D
Entries 106
Mean 0.01139
Std Dev 0.9296

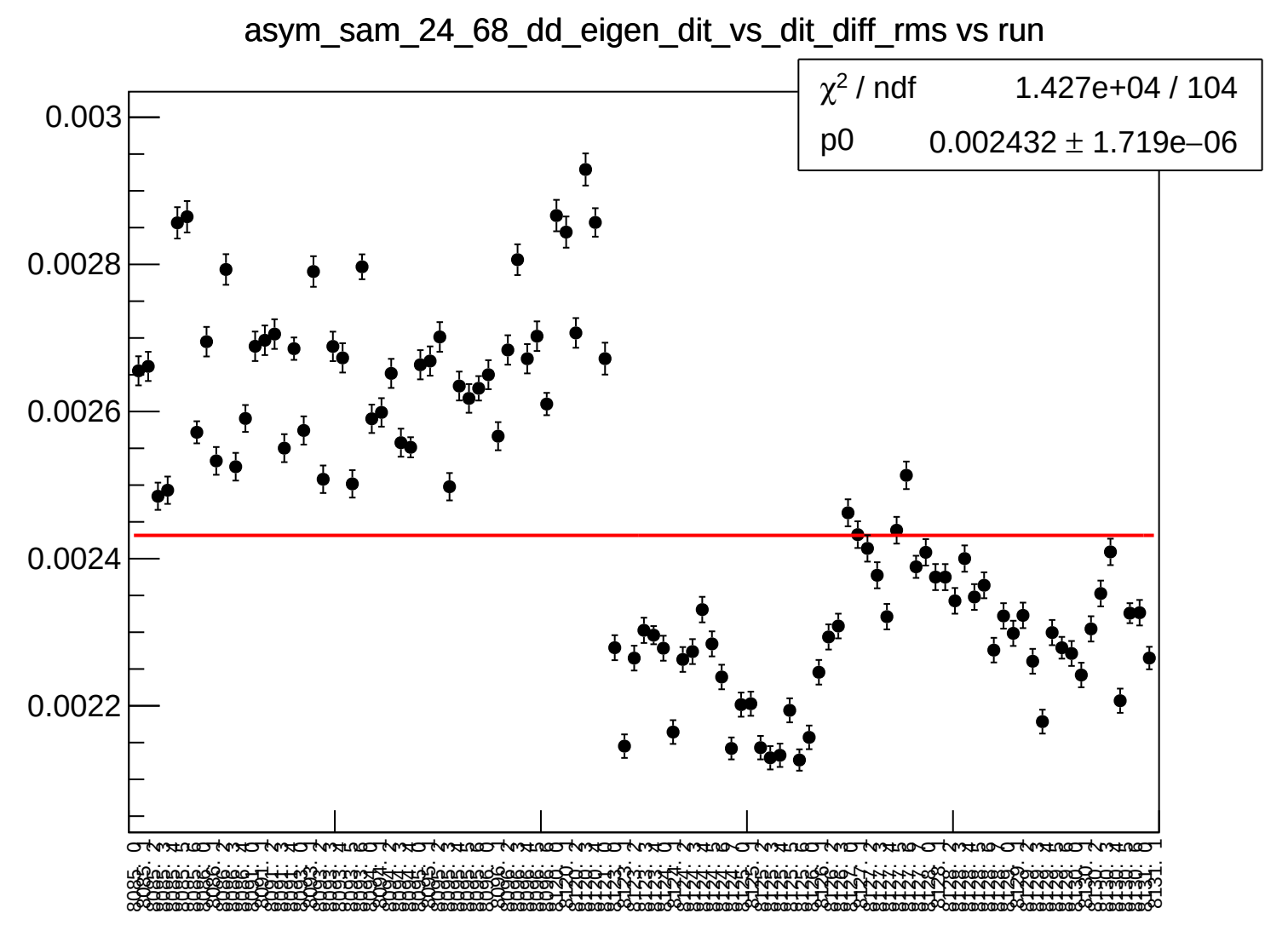

asym_sam_24_68_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.877e+04 / 105
p0 51.21 ± 0.03663
90
80
70
60
50
40
30
20

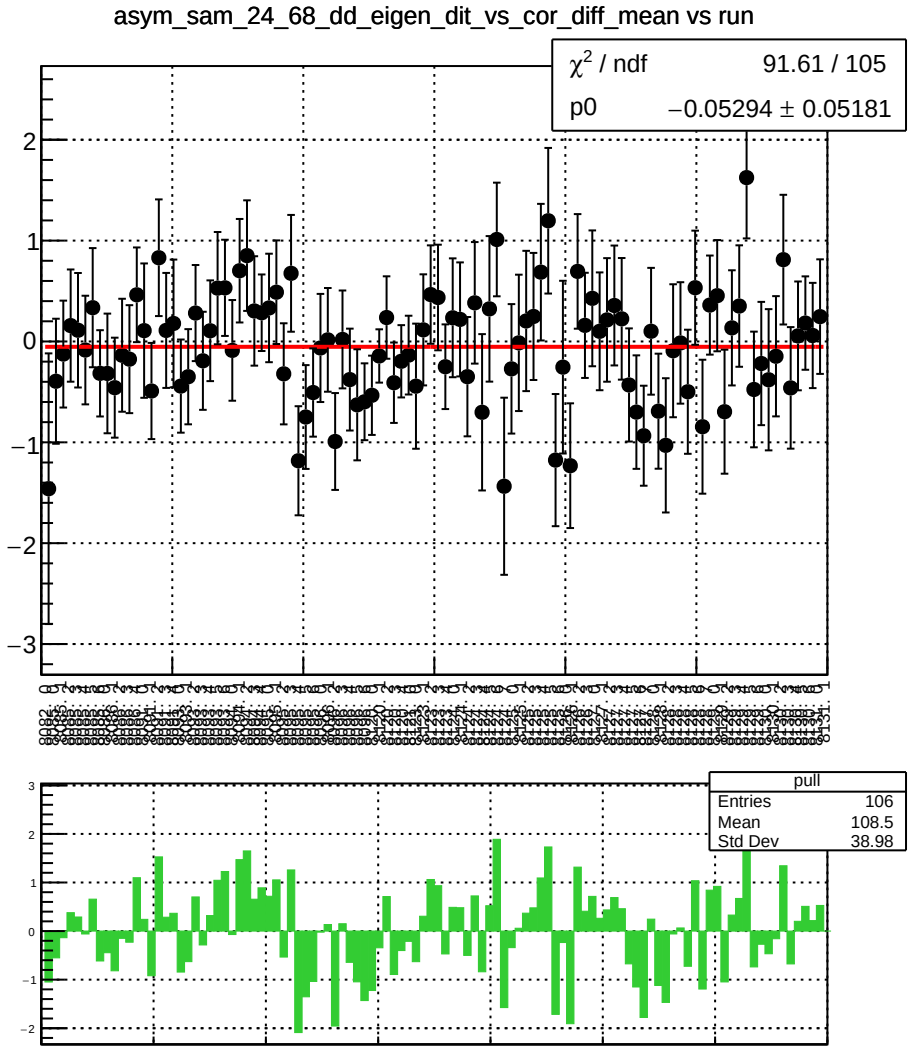

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.61 / 105
p0 −0.05294 ± 0.05181
pull
Entries 106
Mean 108.5
Std Dev 38.97

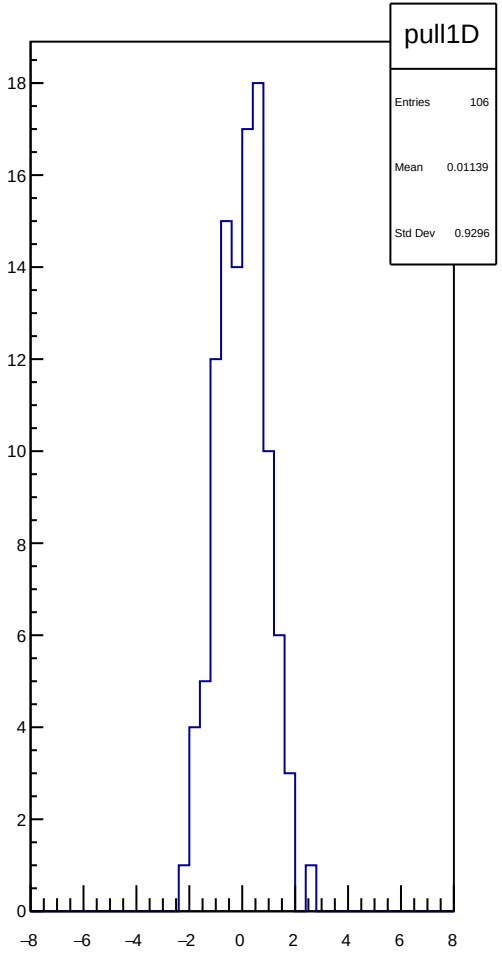

pull1D
Entries 106
Mean 0.01139
Std Dev 0.9296

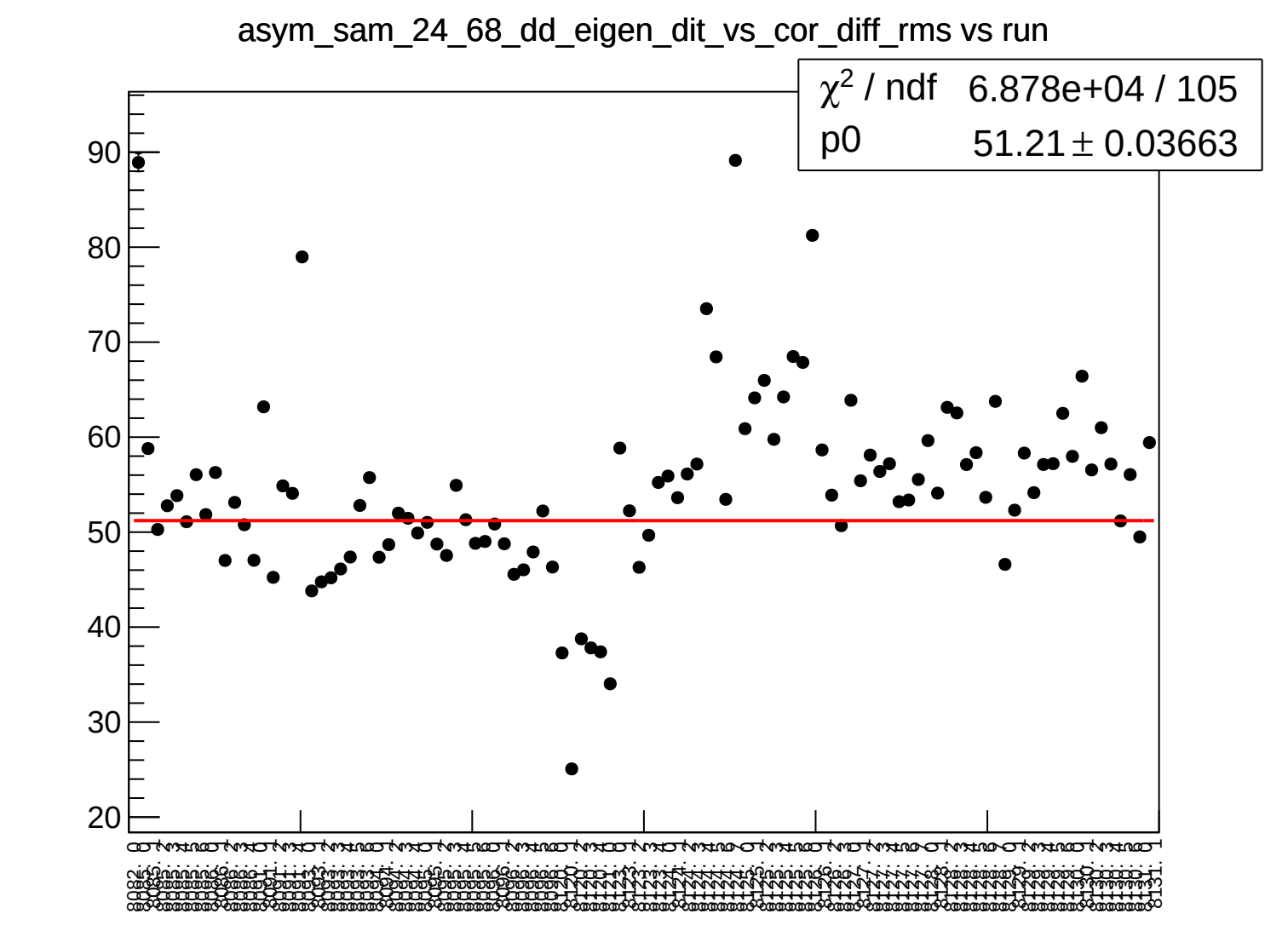

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.877e+04 / 105
p0 51.21 ± 0.03663
90
80
70
60
50
40
30
20

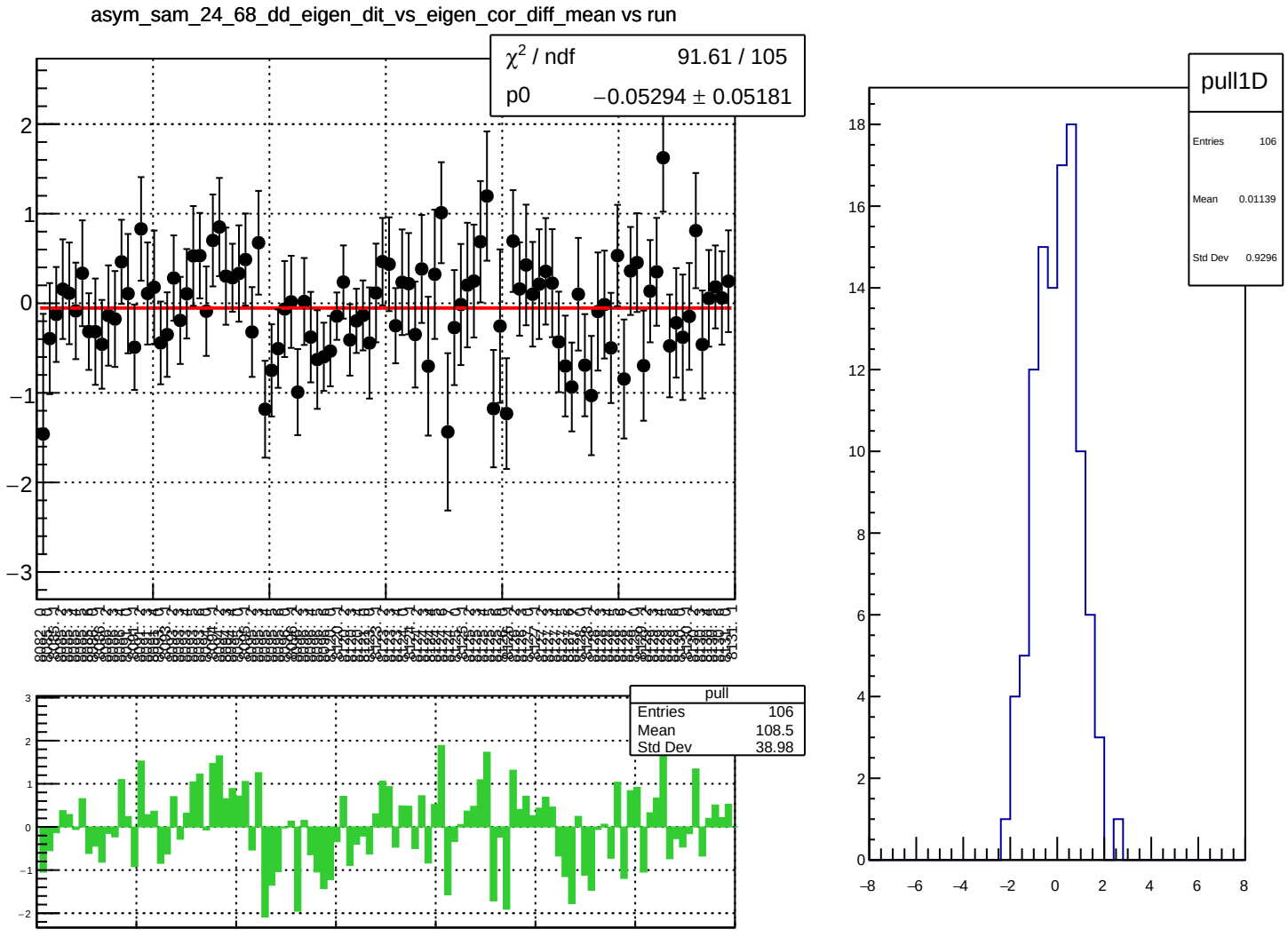

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 71.48 / 104
p0 −3.498e−06 ± 2.432e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 105
Mean −1647
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 105
Mean −0.0007345
Std Dev 0.8251
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

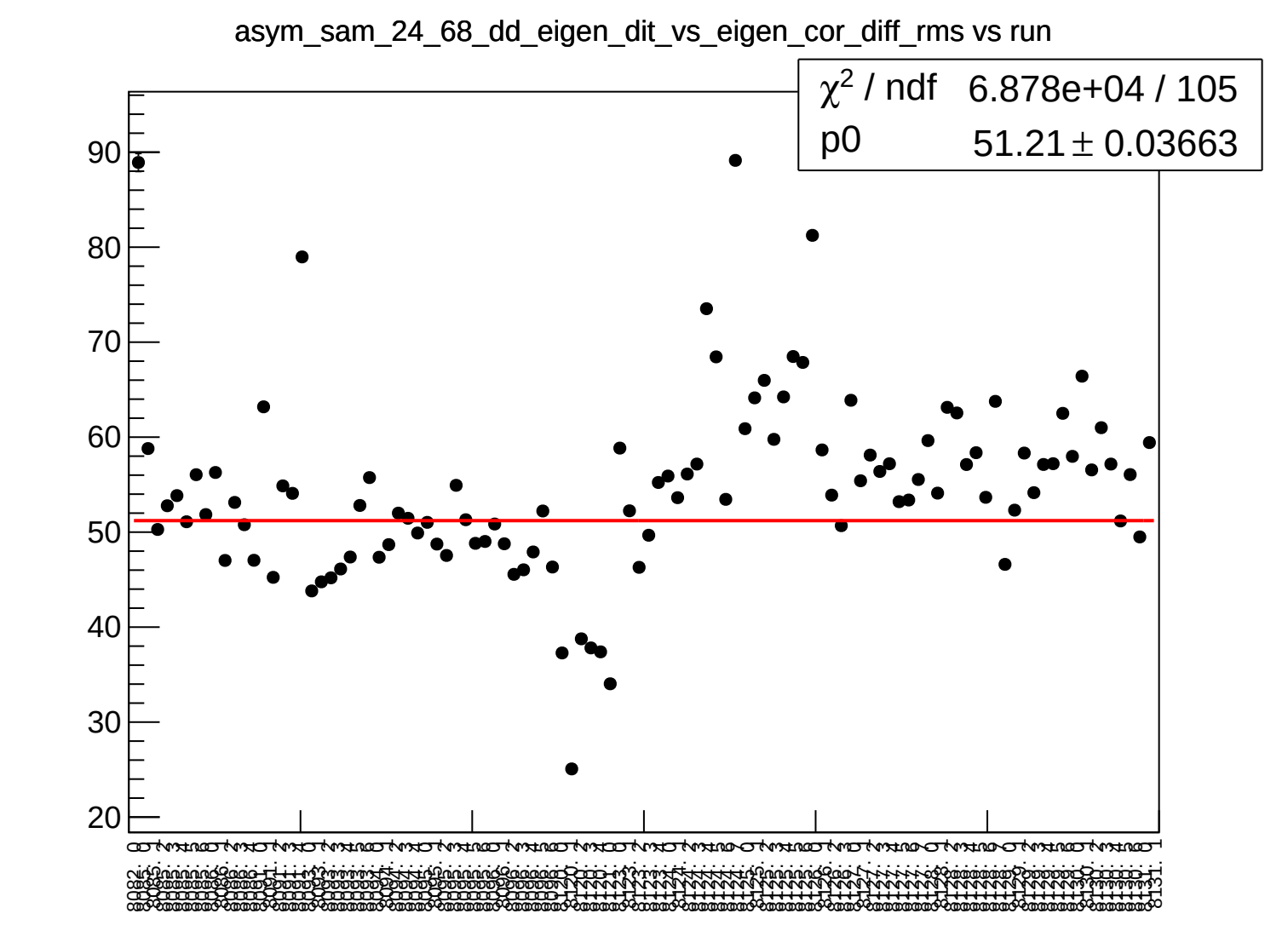

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_rms vs run
$\chi^2$ / ndf 1.427e+04 / 104
p0 0.002432 ± 1.719e−06
0.003
0.0028
0.0026
0.0024
0.0022

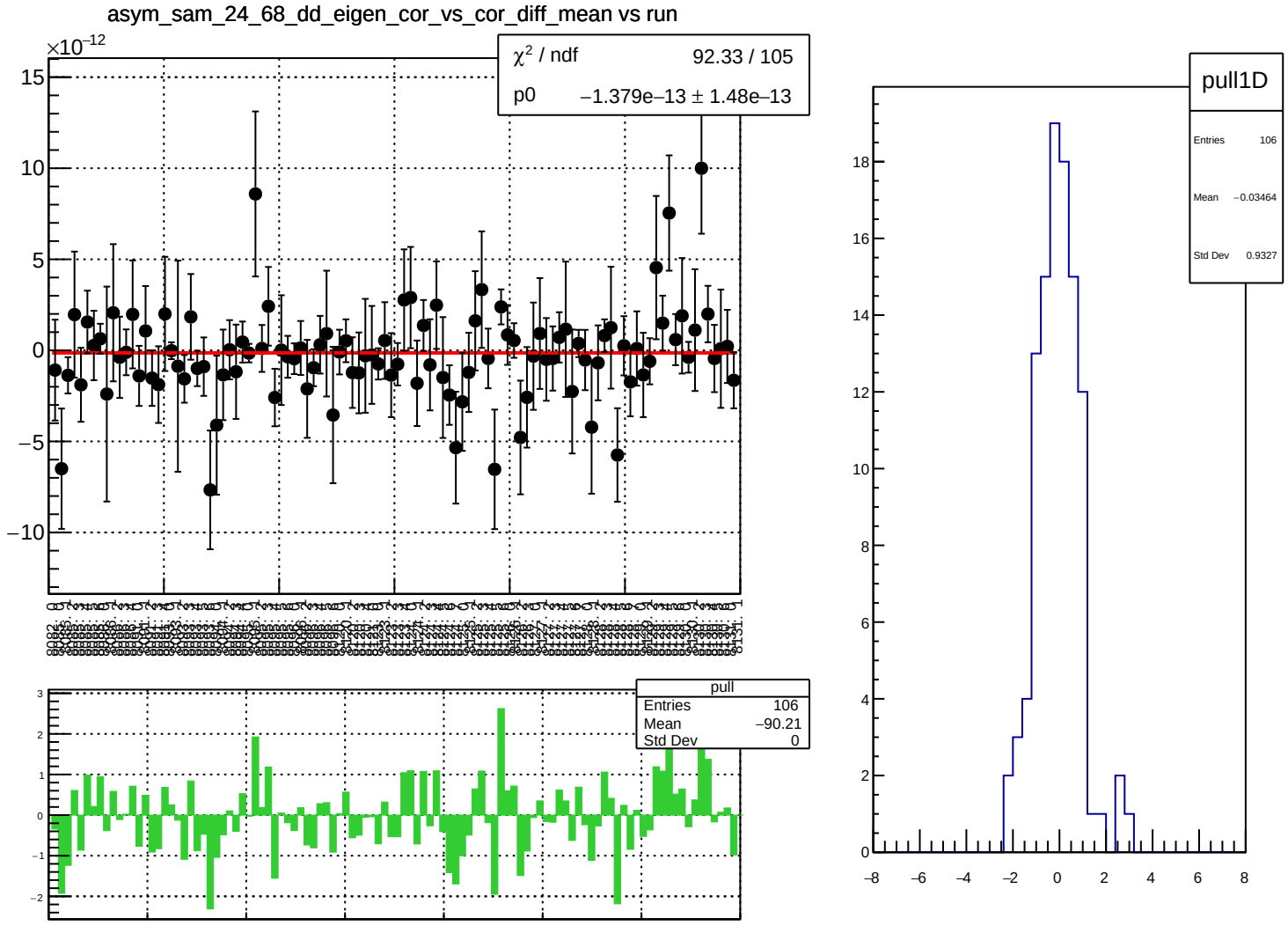

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 91.61 / 105
p0 −0.05294 ± 0.05181
pull
Entries 106
Mean 108.5
Std Dev 38.98

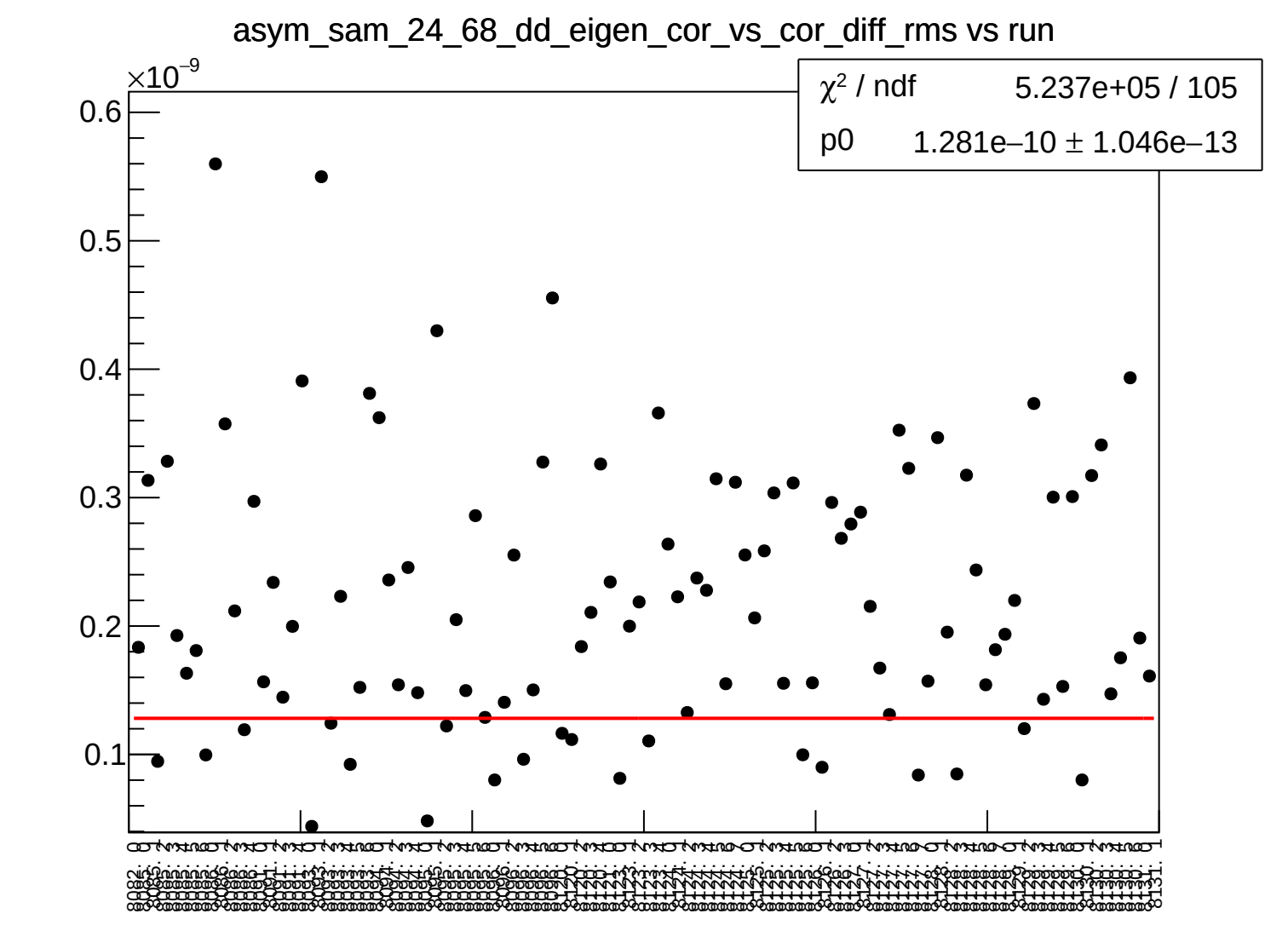

pull1D
Entries 106
Mean 0.01139
Std Dev 0.9296

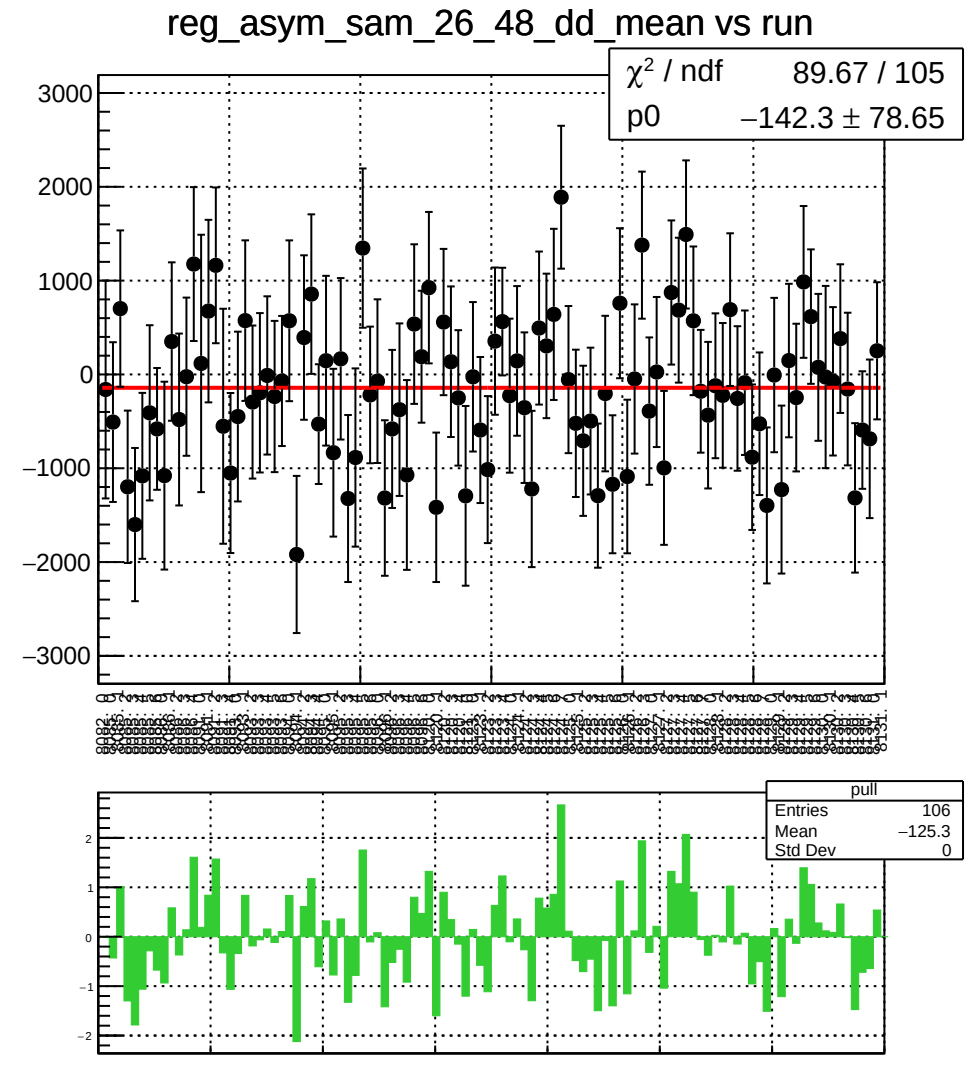

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.878e+04 / 105
p0 51.21 ± 0.03663
90
80
70
60
50
40
30
20

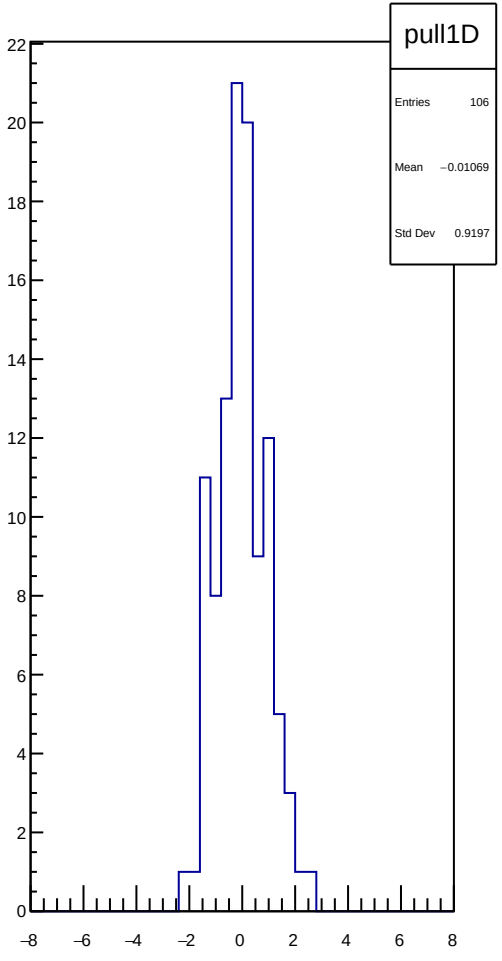

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 91.61 / 105
p0 −0.05294 ± 0.05181
pull
Entries 106
Mean 108.5
Std Dev 38.98
pull1D
Entries 106
Mean 0.01139
Std Dev 0.9296

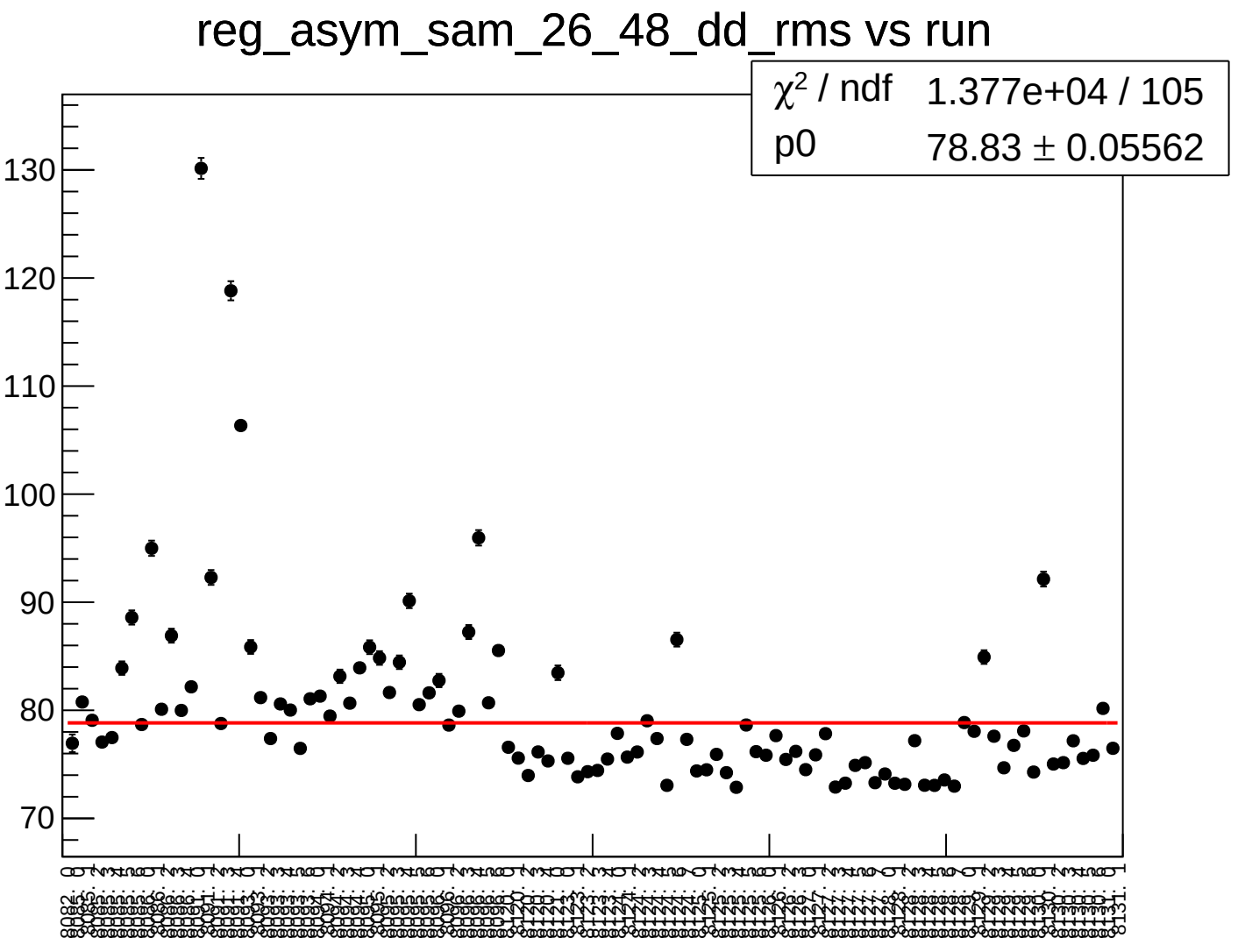

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.878e+04 / 105
p0 51.21 ± 0.03663
90
80
70
60
50
40
30
20

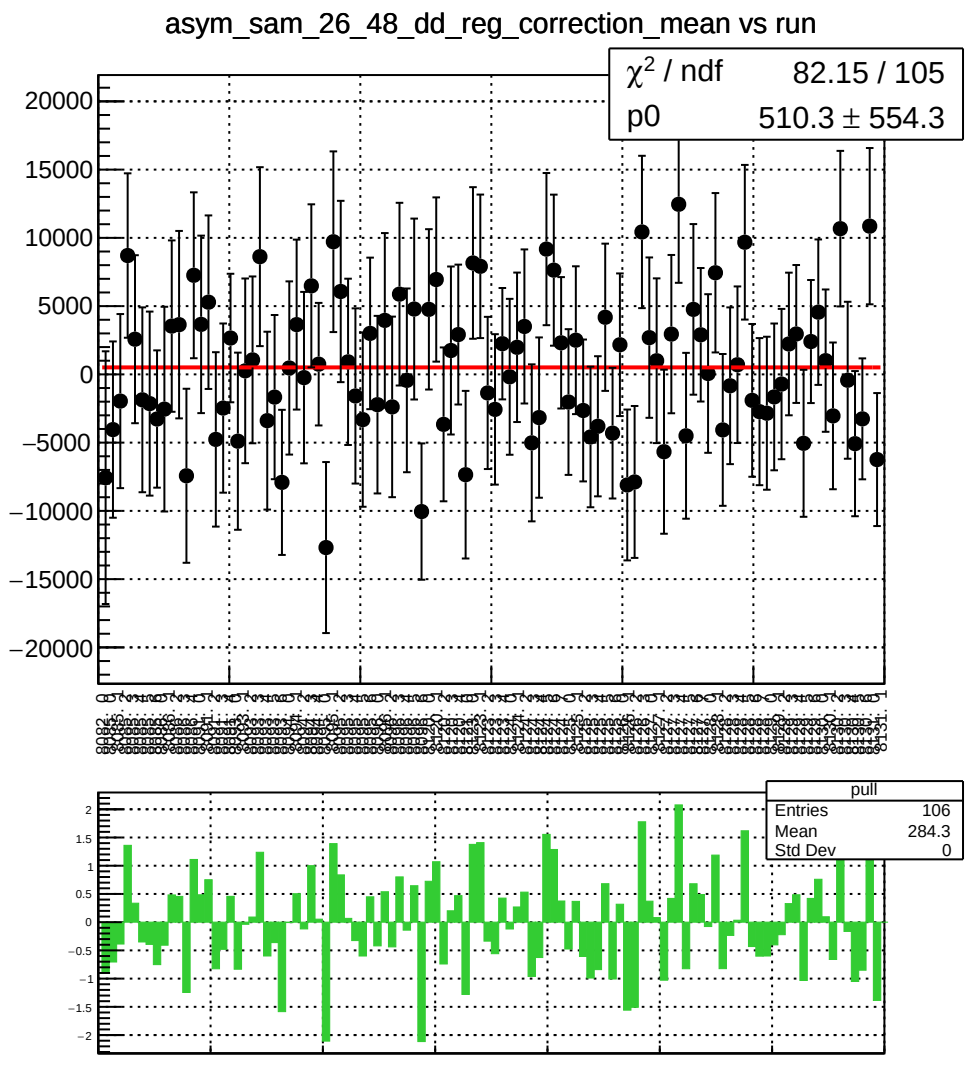

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.33 / 105
p0 −1.379e−13 ± 1.48e−13
pull
Entries 106
Mean −90.21
Std Dev 0
pull1D
Entries 106
Mean −0.03464
Std Dev 0.9327

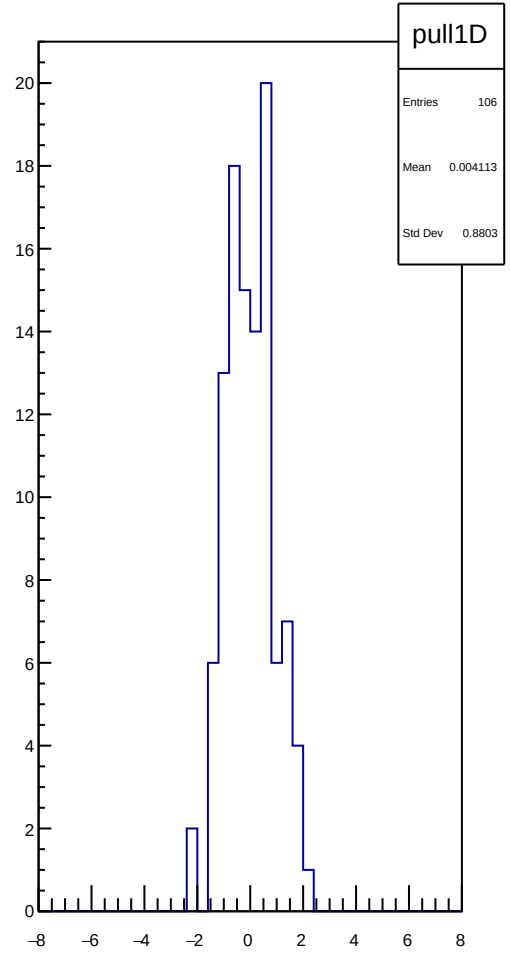

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.237e+05 / 105
p0 1.281e−10 ± 1.046e−13
0.6
0.5
0.4
0.3
0.2
0.1

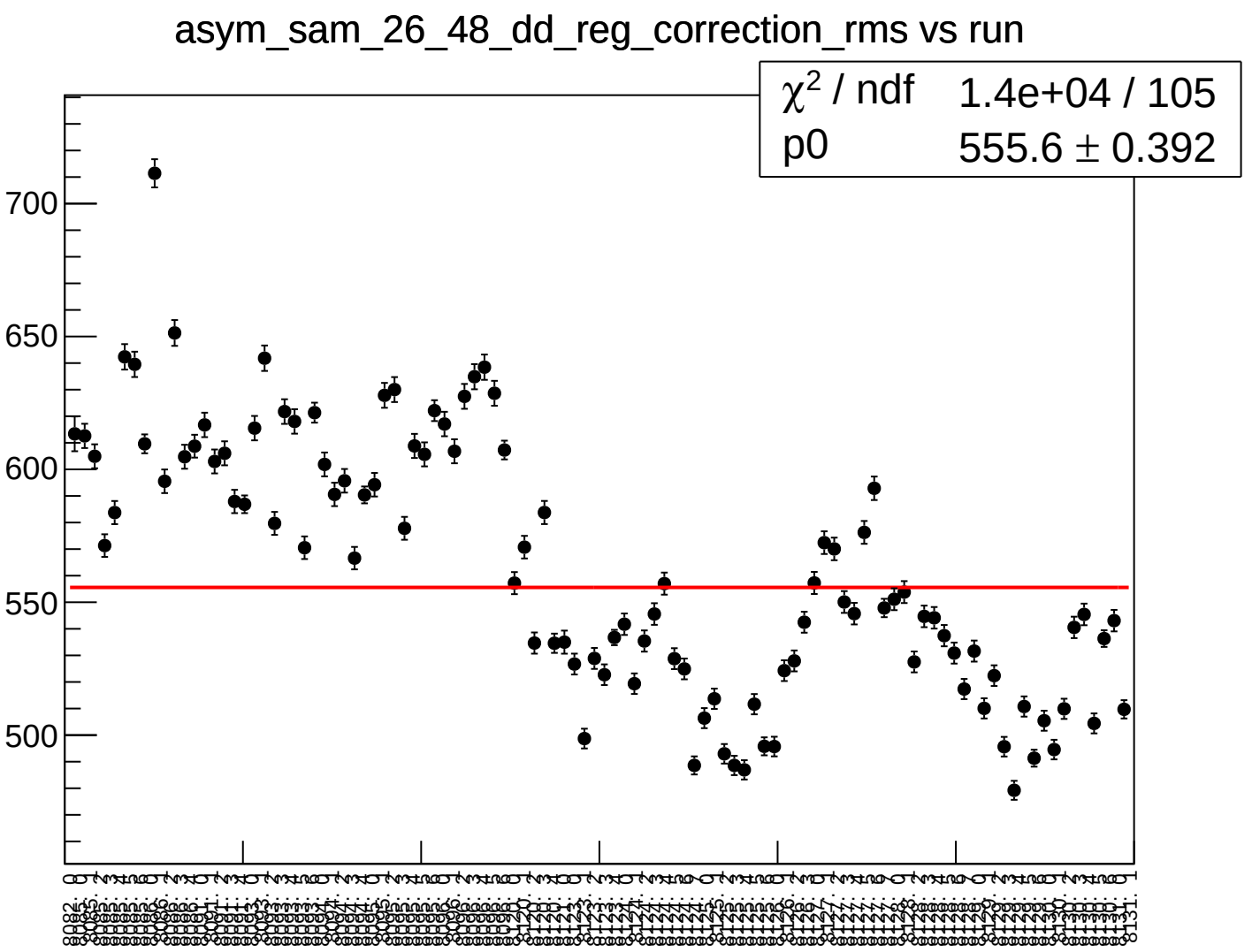

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 89.67 / 105
p0 −142.3 ± 78.65
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 106
Mean −125.3
Std Dev 0
2
1
0
−1
−2

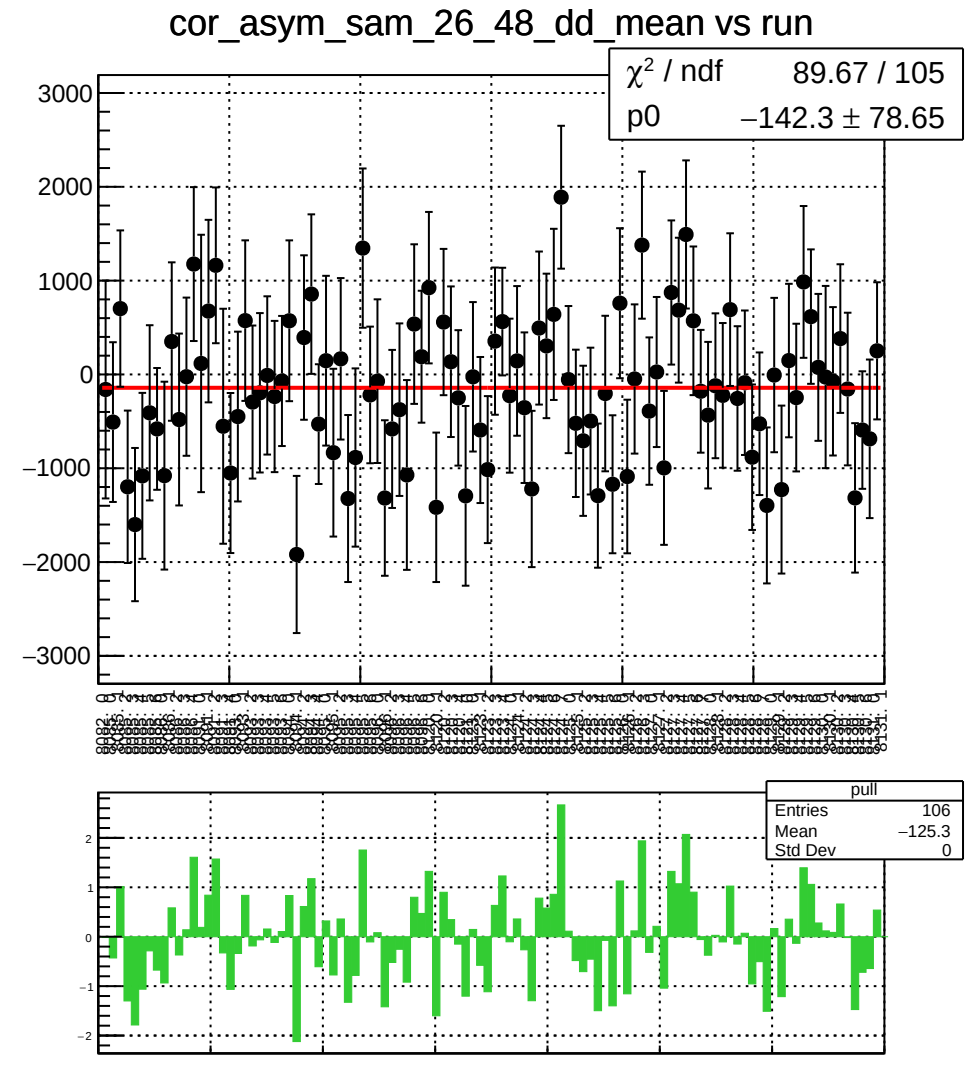

pull1D
Entries 106
Mean −0.01069
Std Dev 0.9197
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

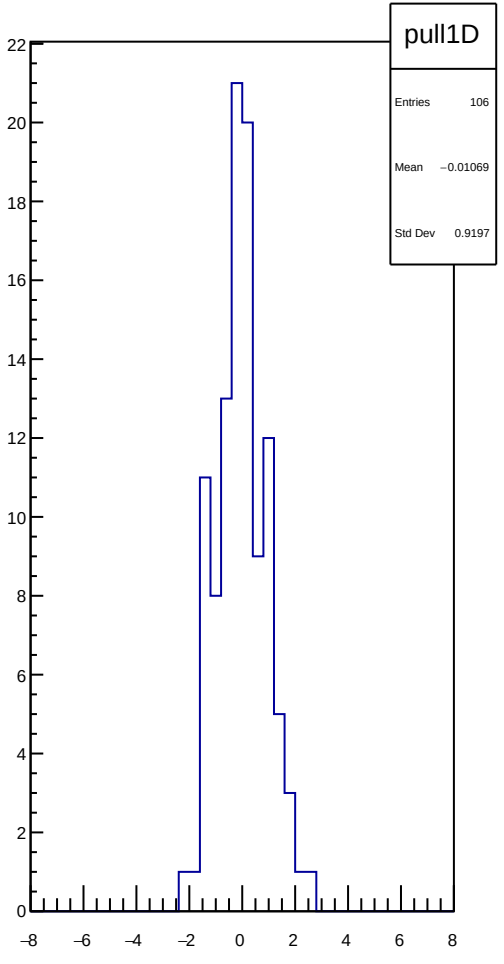

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 1.377e+04 / 105
p0 78.83 ± 0.05562
130
120
110
100
90
80
70

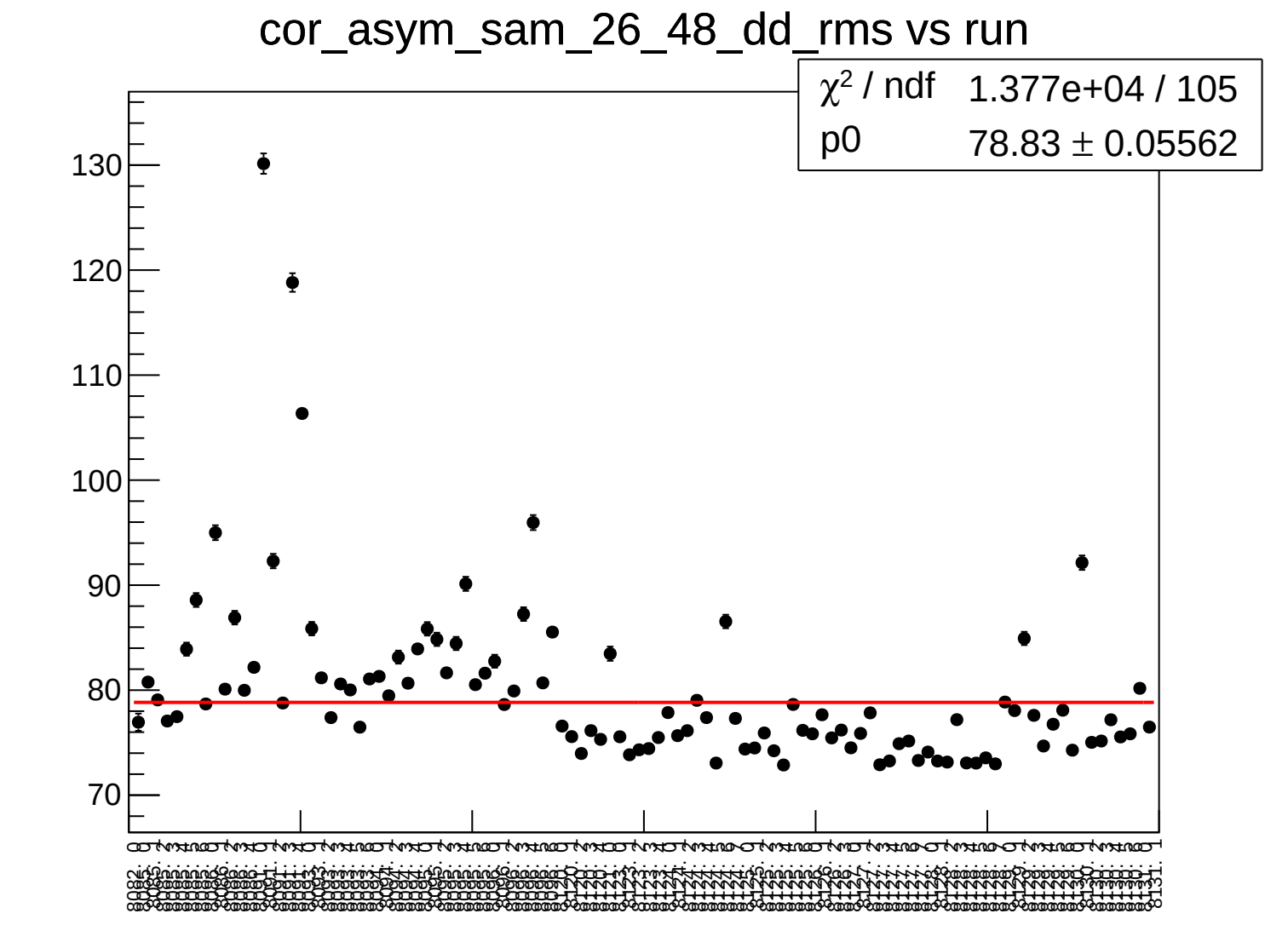

asym_sam_26_48_dd_reg_correction_mean vs run
χ² / ndf 82.15 / 105
p0 510.3 ± 554.3
pull
Entries 106
Mean 284.3
Std Dev 0

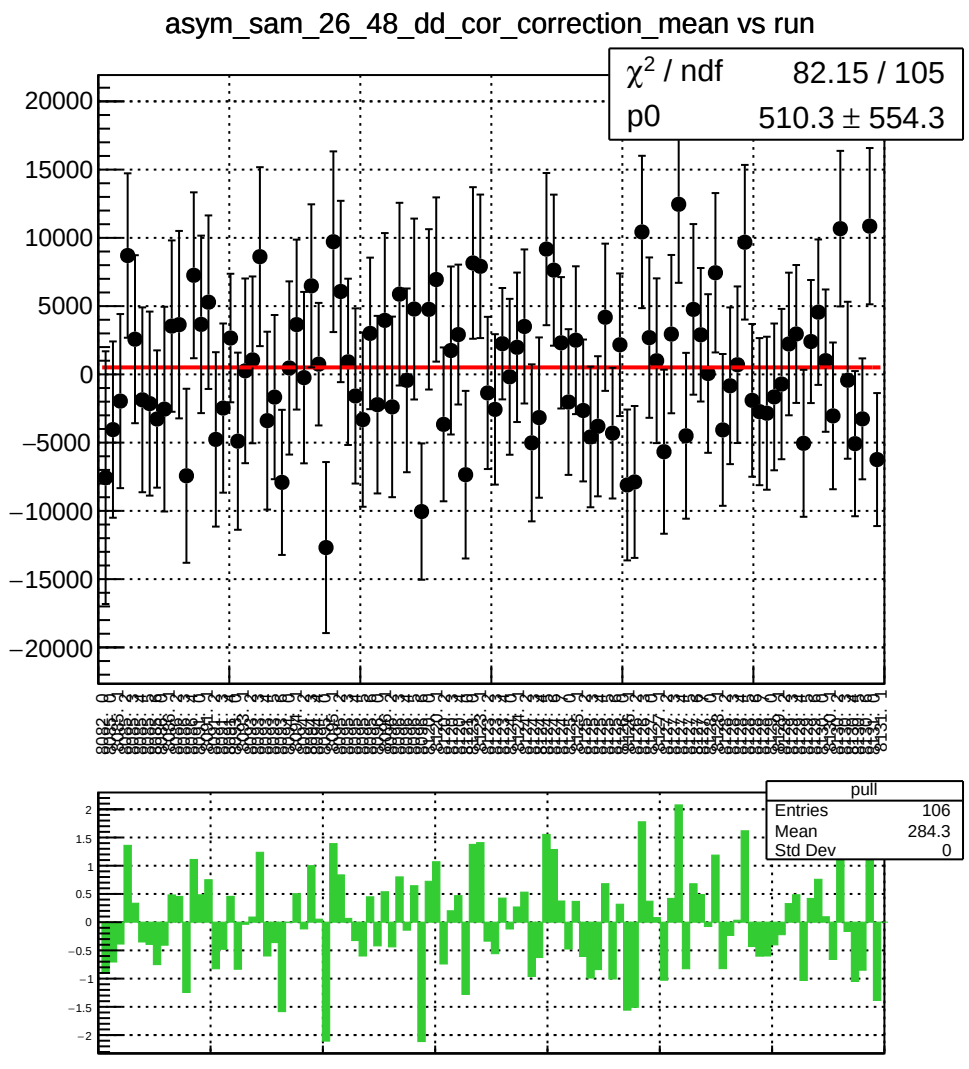

pull1D
Entries 106
Mean 0.004113
Std Dev 0.8803

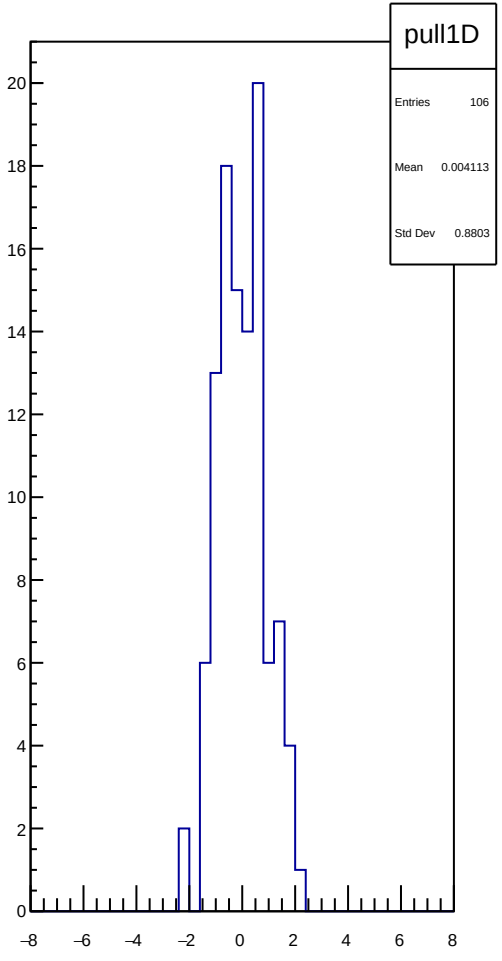

asym_sam_26_48_dd_reg_correction_rms vs run
χ² / ndf 1.4e+04 / 105
p0 555.6 ± 0.392
700
650
600
550
500

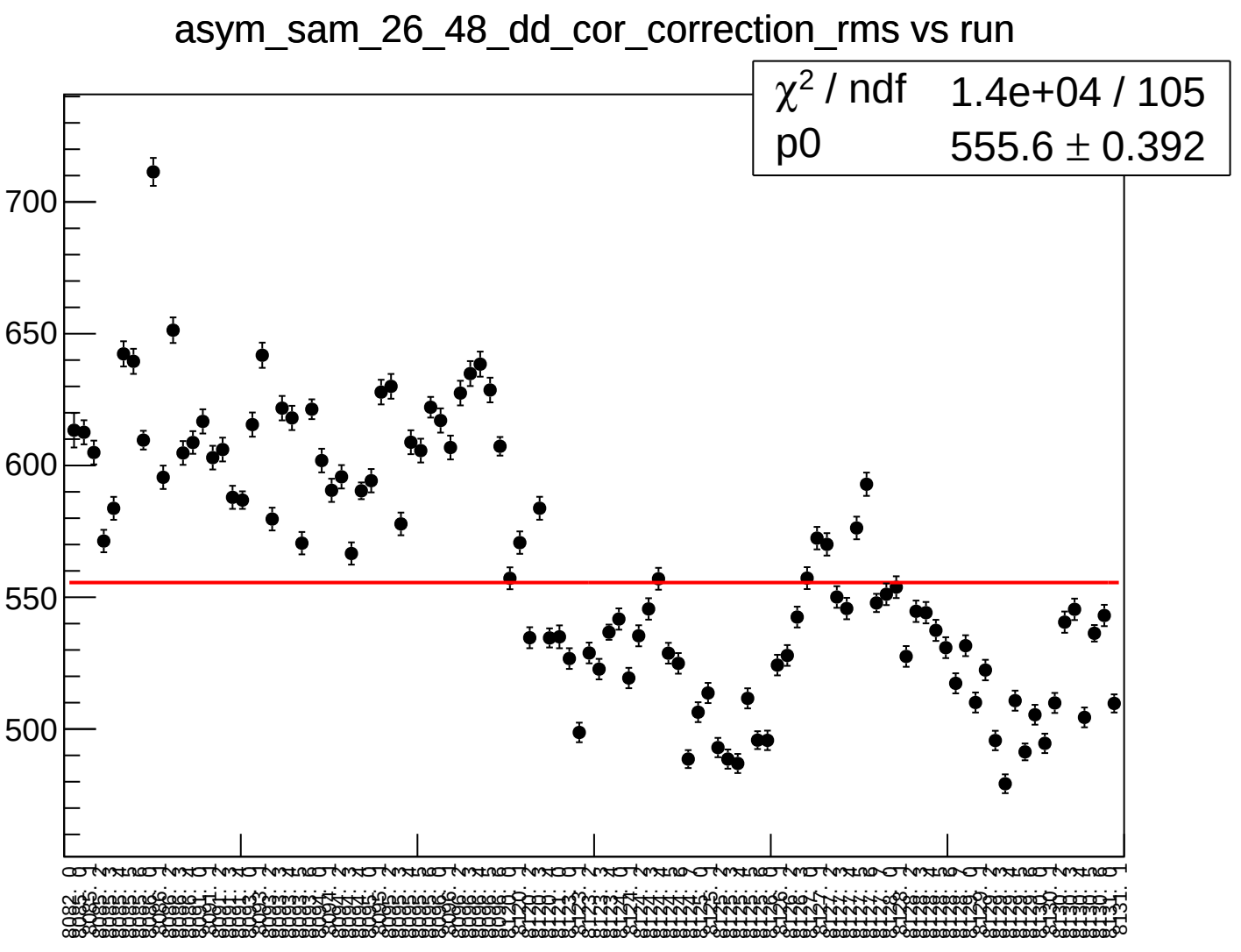

cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 89.67 / 105
p0 −142.3 ± 78.65
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 106
Mean −125.3
Std Dev 0
2
1
0
−1
−2

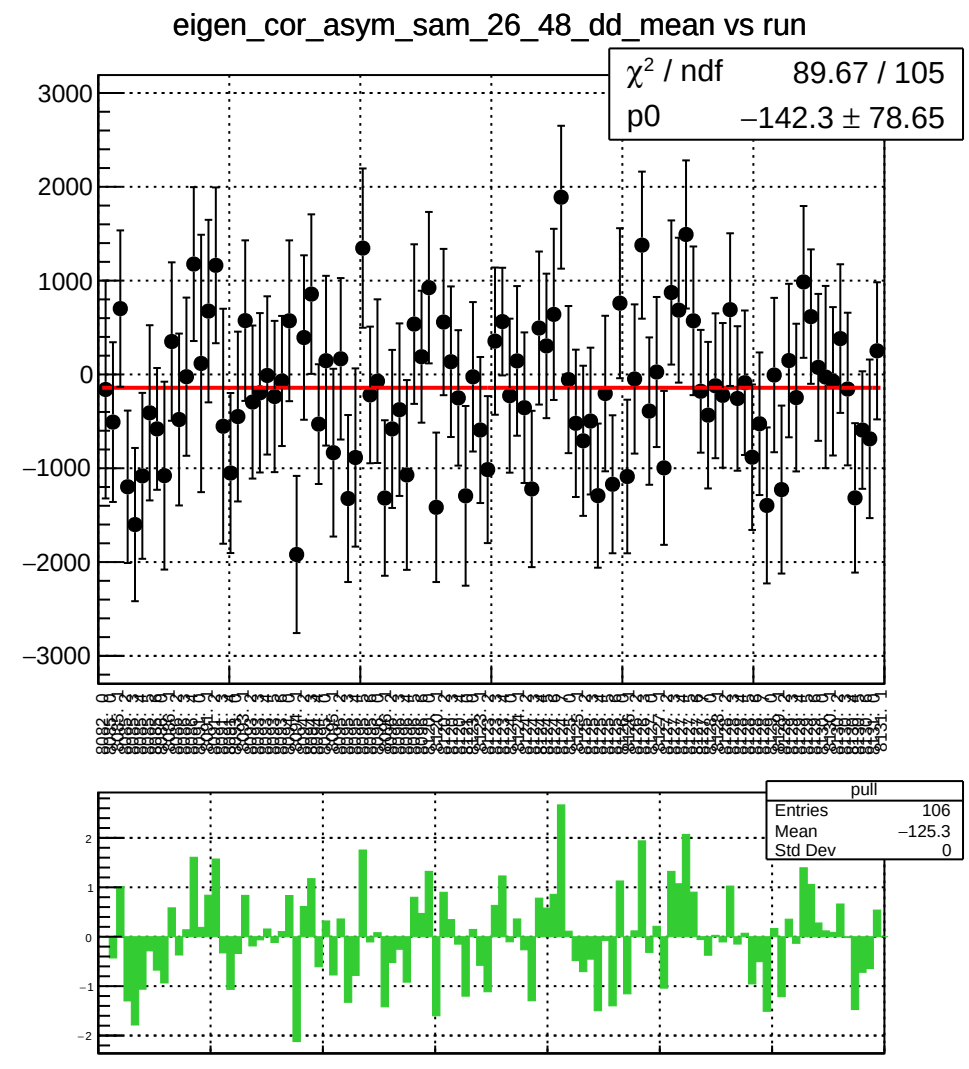

pull1D
Entries 106
Mean −0.01069
Std Dev 0.9197
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

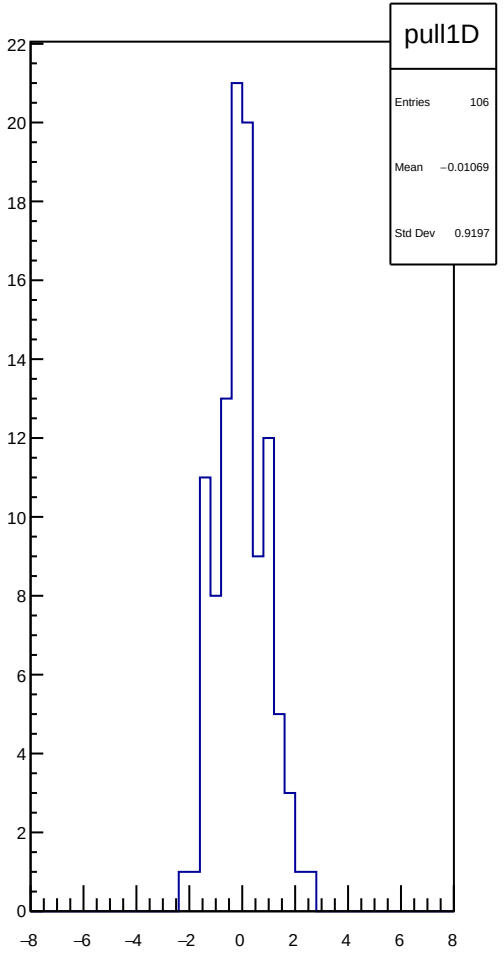

cor_asym_sam_26_48_dd_rms vs run
$\chi^2$ / ndf 1.377e+04 / 105
p0 78.83 ± 0.05562
130
120
110
100
90
80
70

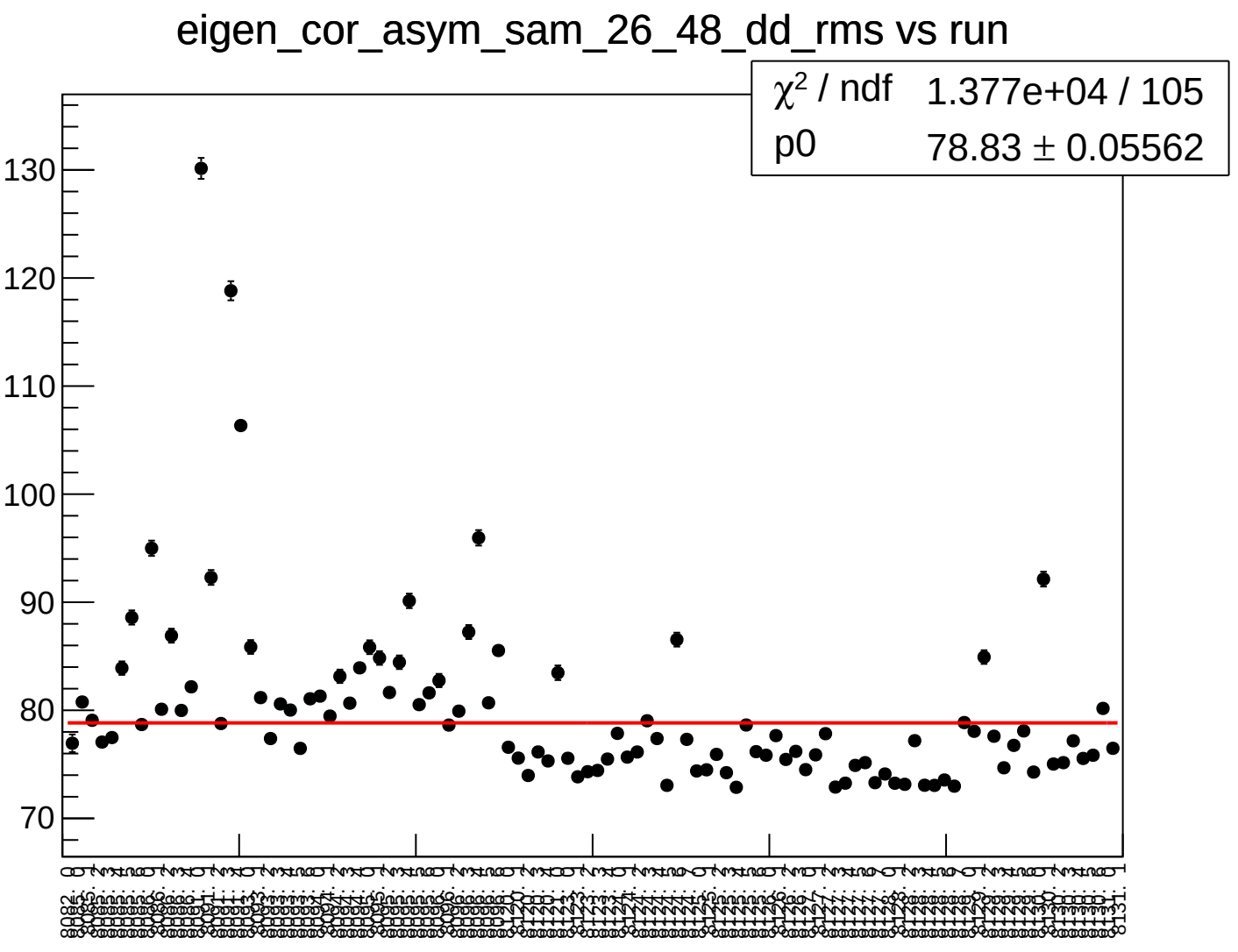

asym_sam_26_48_dd_cor_correction_mean vs run
χ² / ndf 82.15 / 105
p0 510.3 ± 554.3
pull
Entries 106
Mean 284.3
Std Dev 0

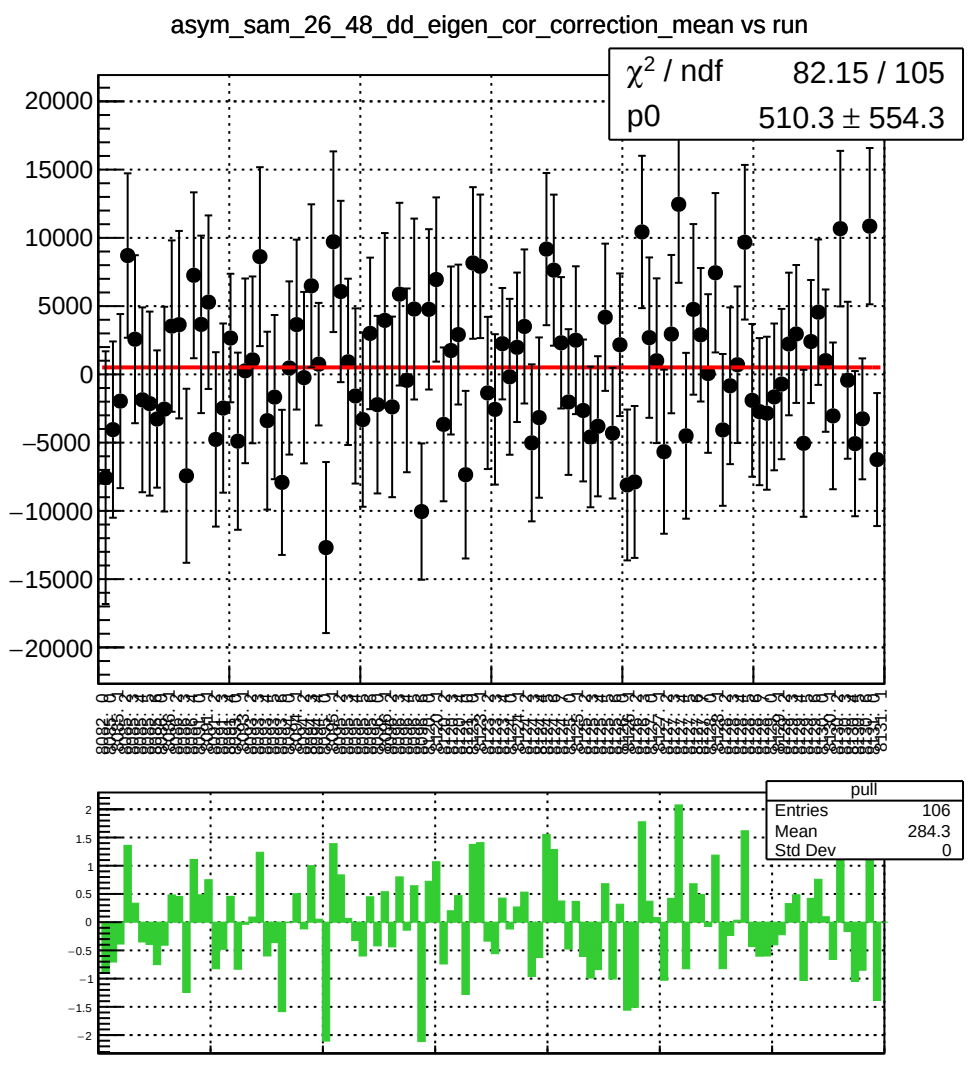

pull1D
Entries 106
Mean 0.004113
Std Dev 0.8803

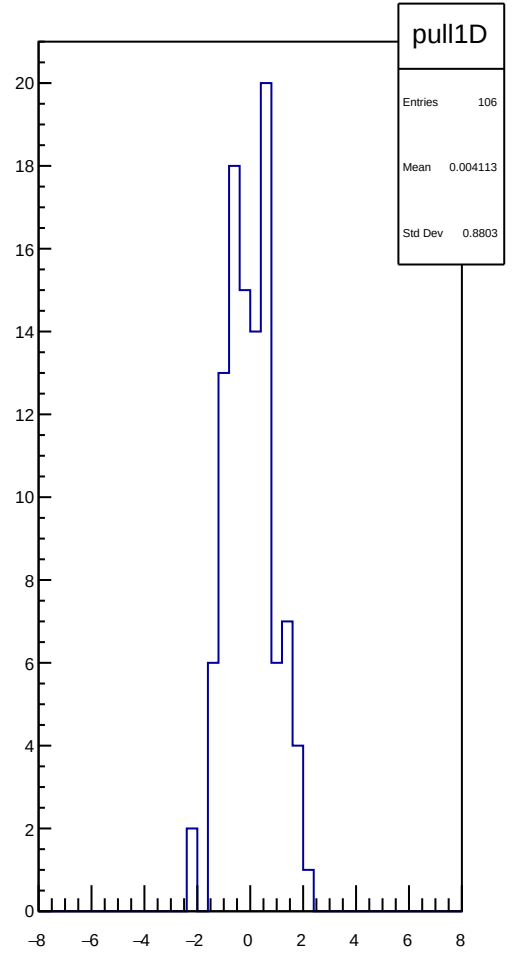

asym_sam_26_48_dd_cor_correction_rms vs run
χ² / ndf 1.4e+04 / 105
p0 555.6 ± 0.392
700
650
600
550
500

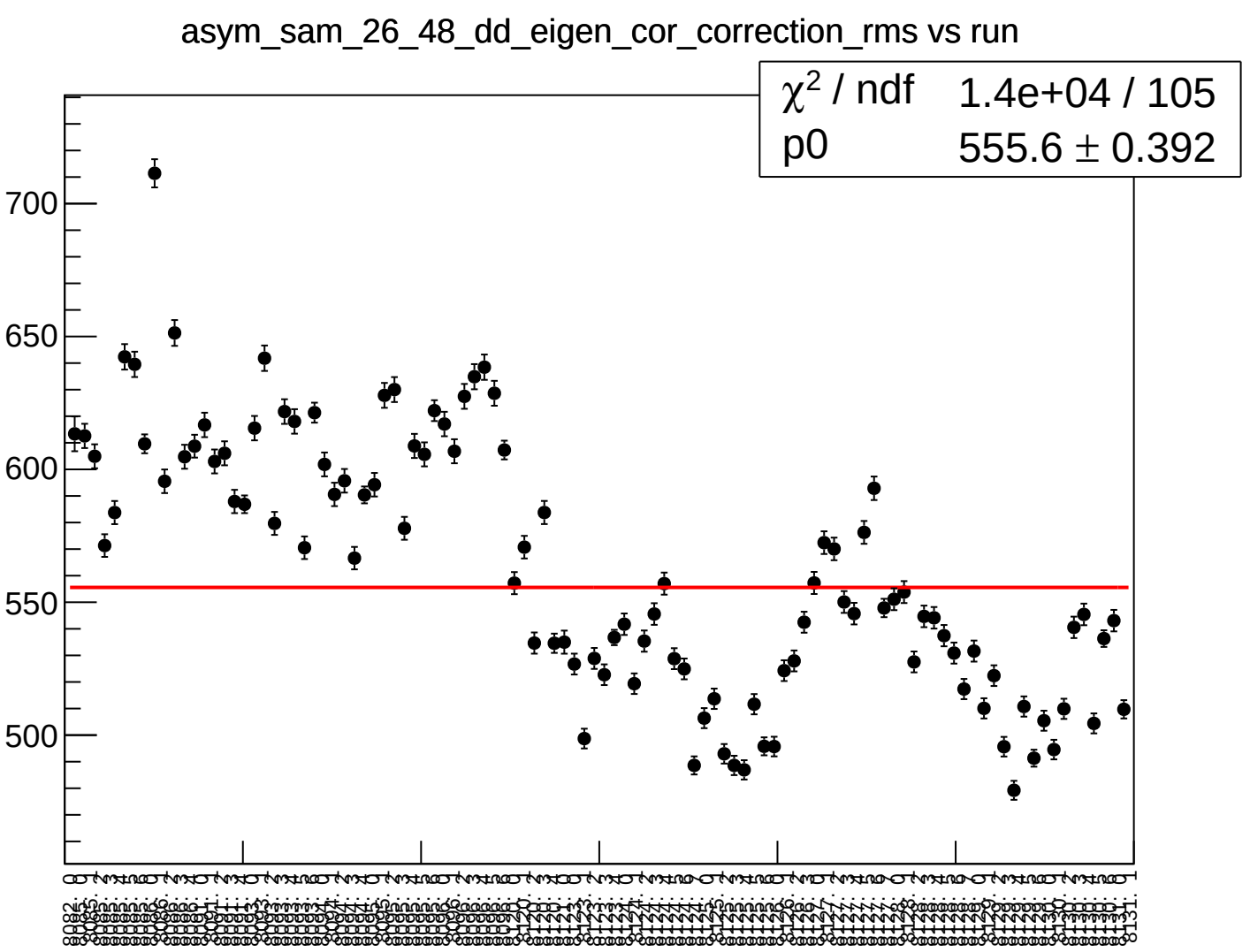

eigen_cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 89.67 / 105
p0 −142.3 ± 78.65
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 106
Mean −125.3
Std Dev 0
2
1
0
−1
−2

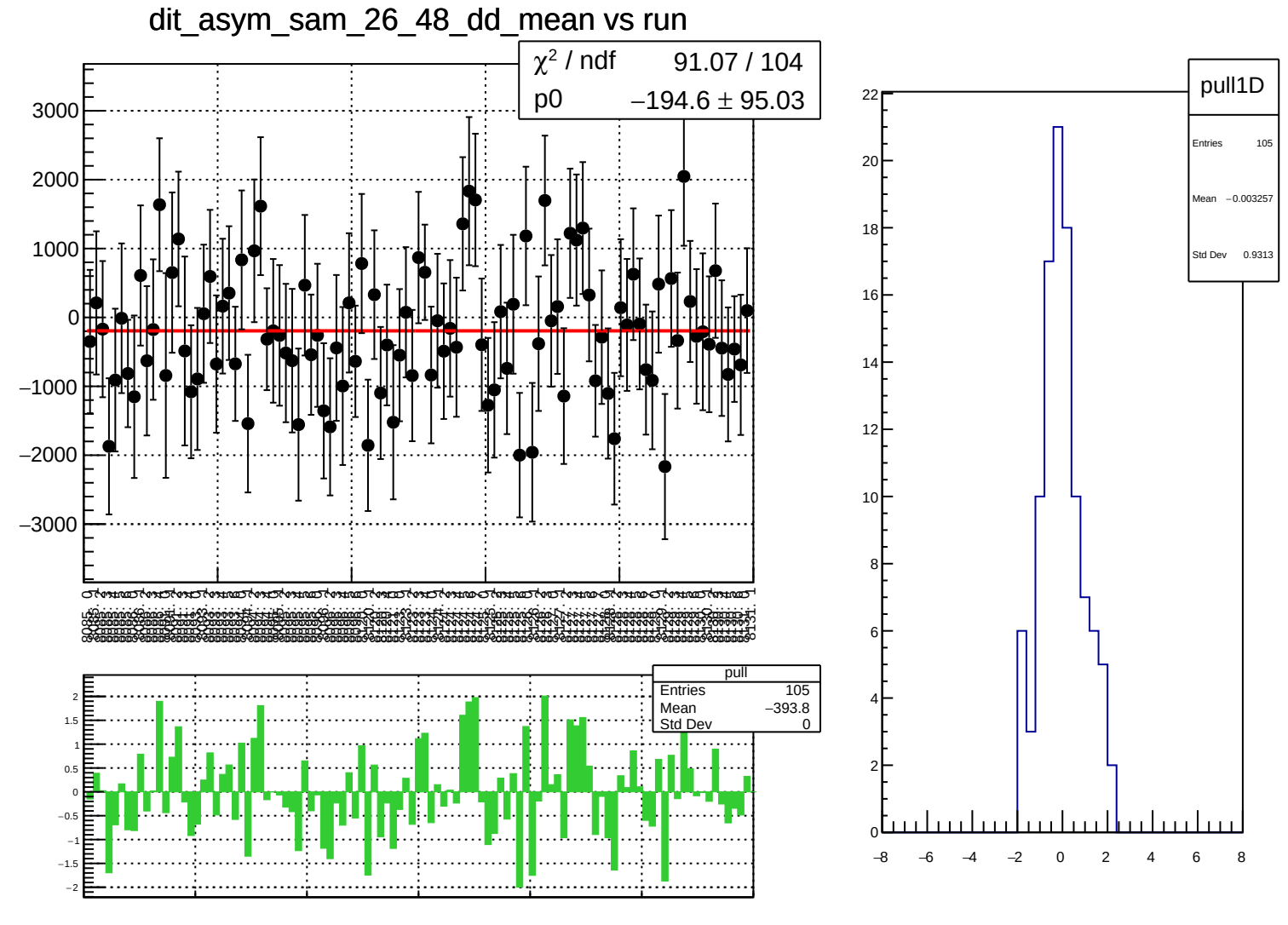

pull1D
Entries 106
Mean −0.01069
Std Dev 0.9197
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

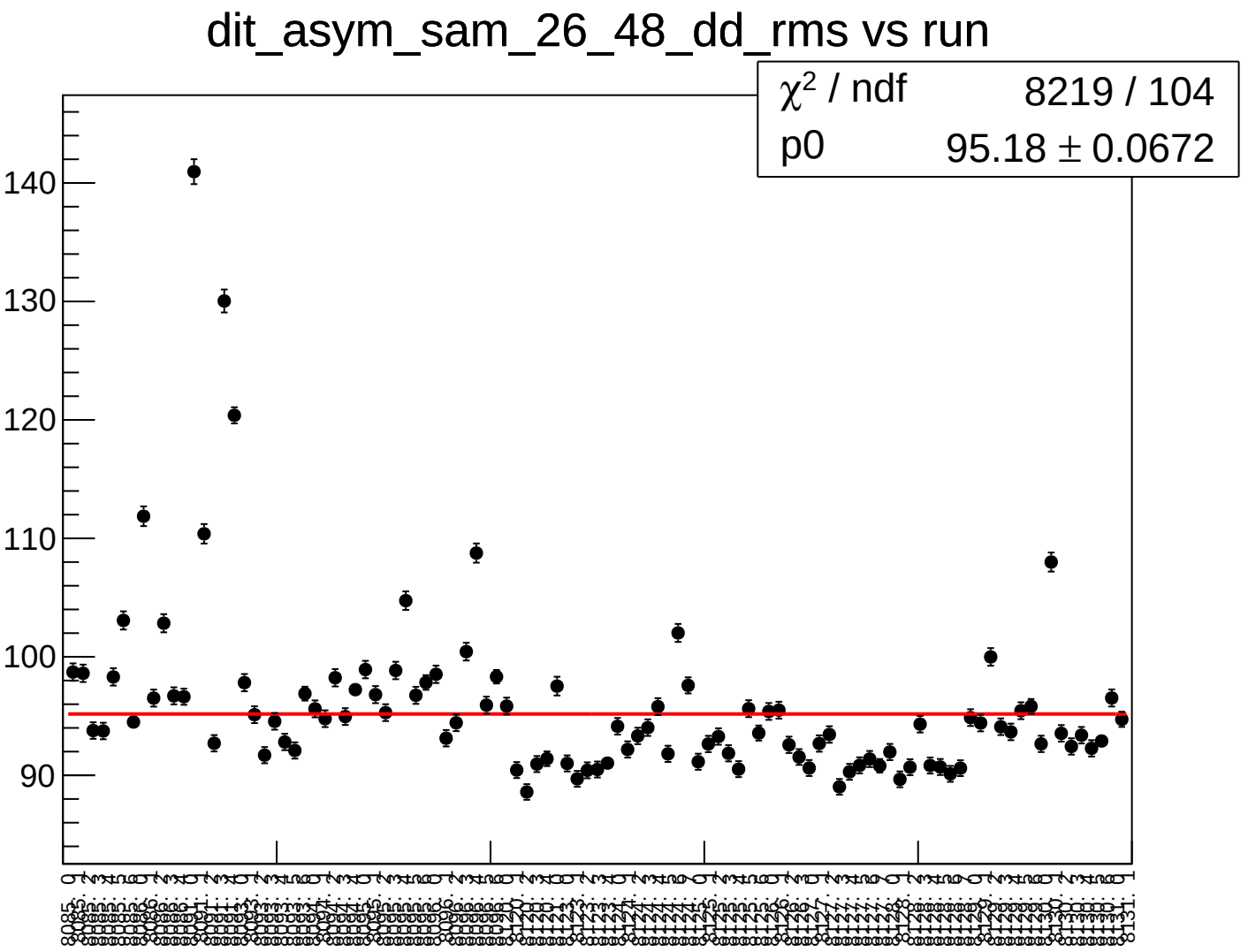

eigen_cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 1.377e+04 / 105
p0 78.83 ± 0.05562
130
120
110
100
90
80
70

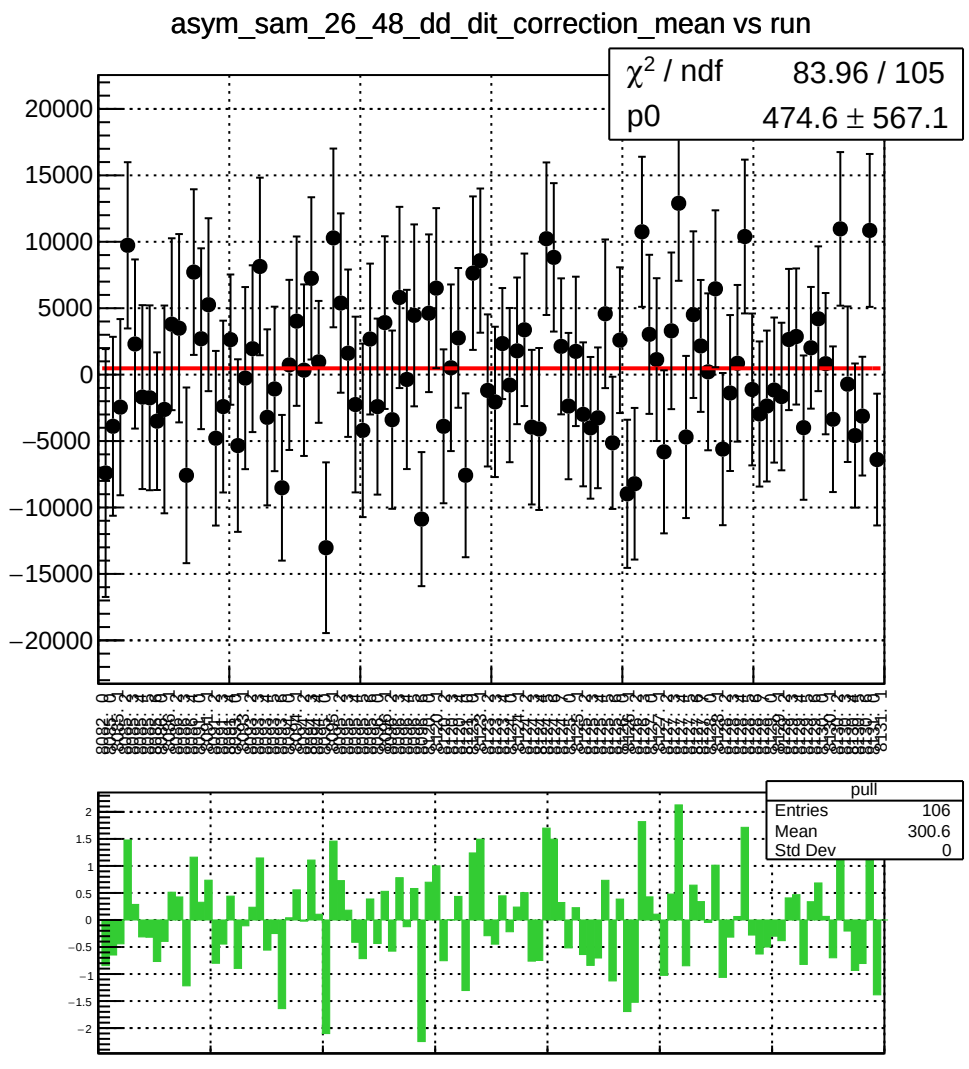

asym_sam_26_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 82.15 / 105
p0 510.3 ± 554.3
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 106
Mean 284.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

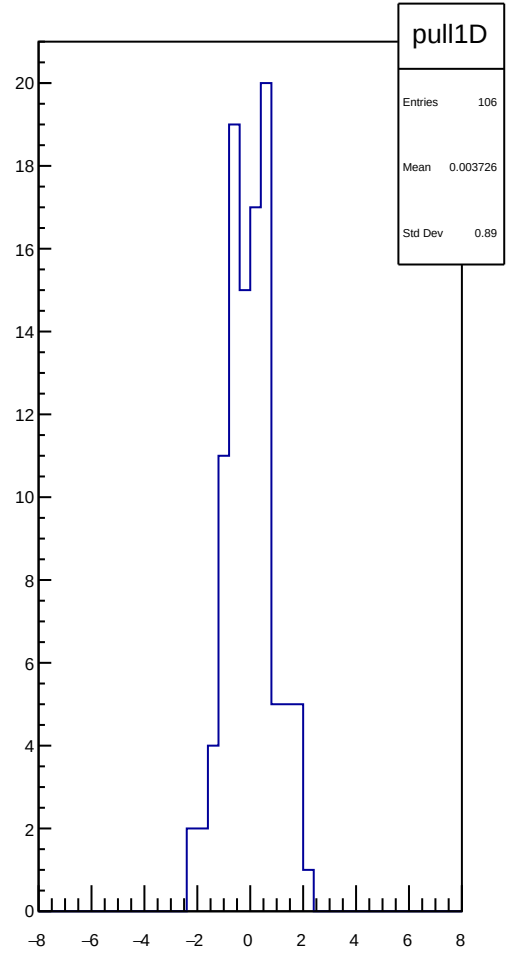

pull1D
Entries 106
Mean 0.004113
Std Dev 0.8803
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

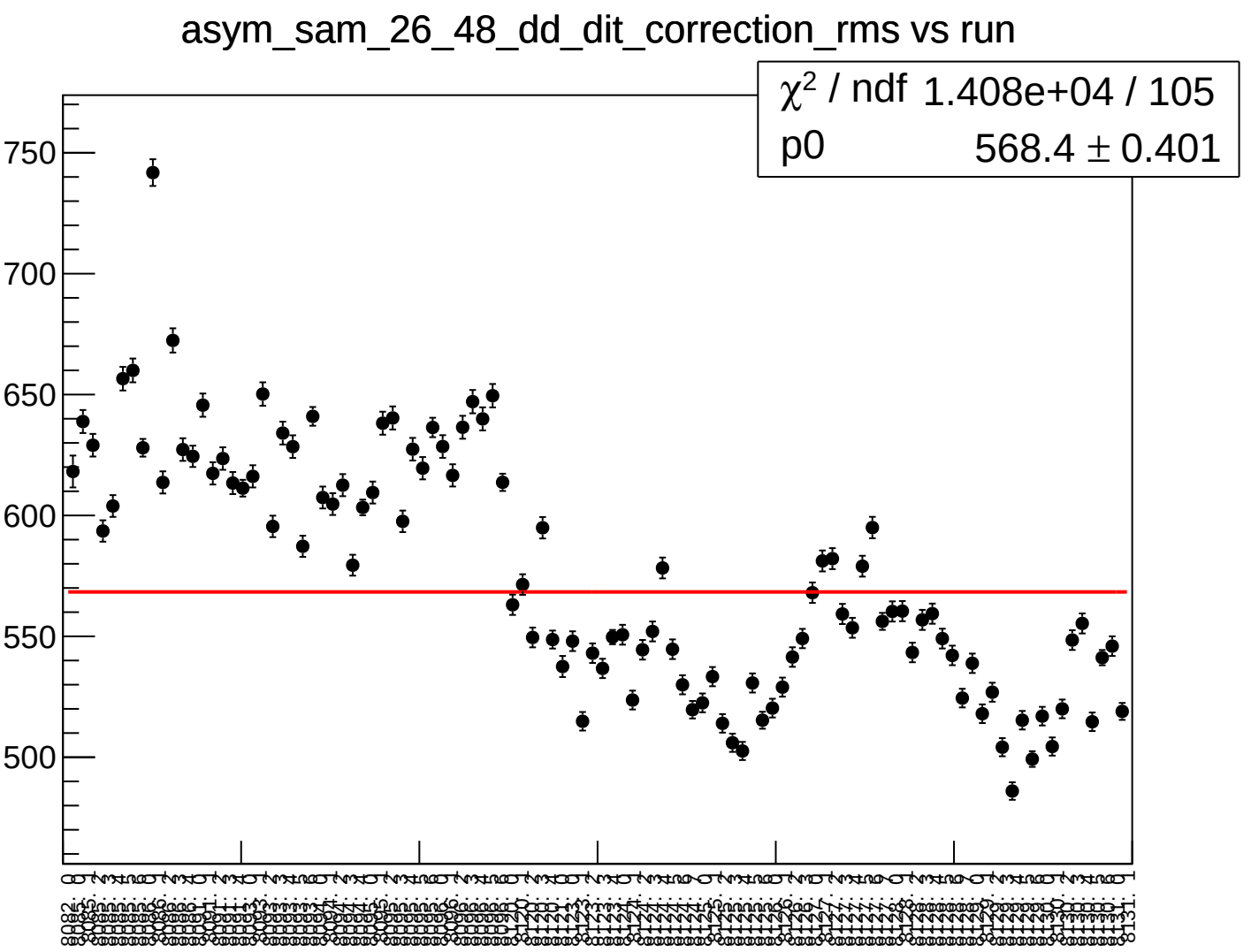

asym_sam_26_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.4e+04 / 105
p0 555.6 ± 0.392
700
650
600
550
500

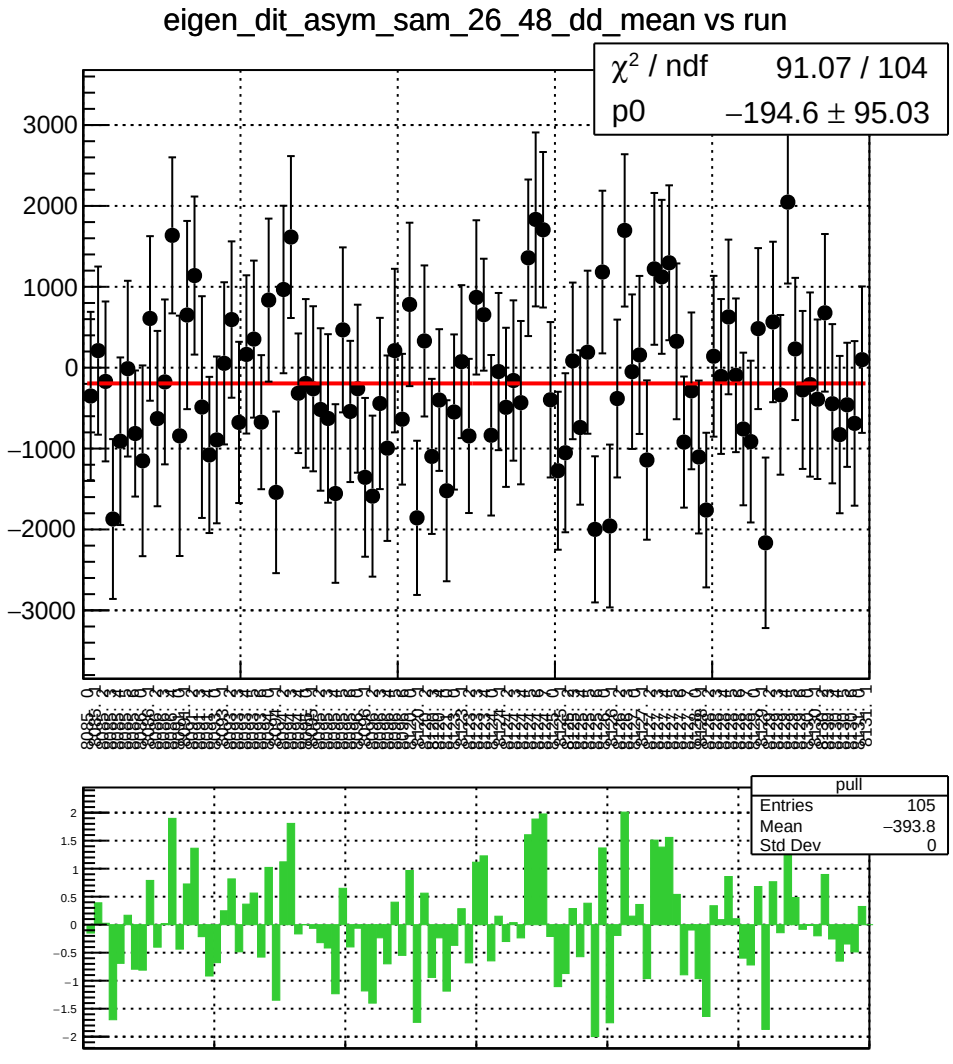

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 91.07 / 104
p0 −194.6 ± 95.03
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 105
Mean −393.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 105
Mean −0.003257
Std Dev 0.9313
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

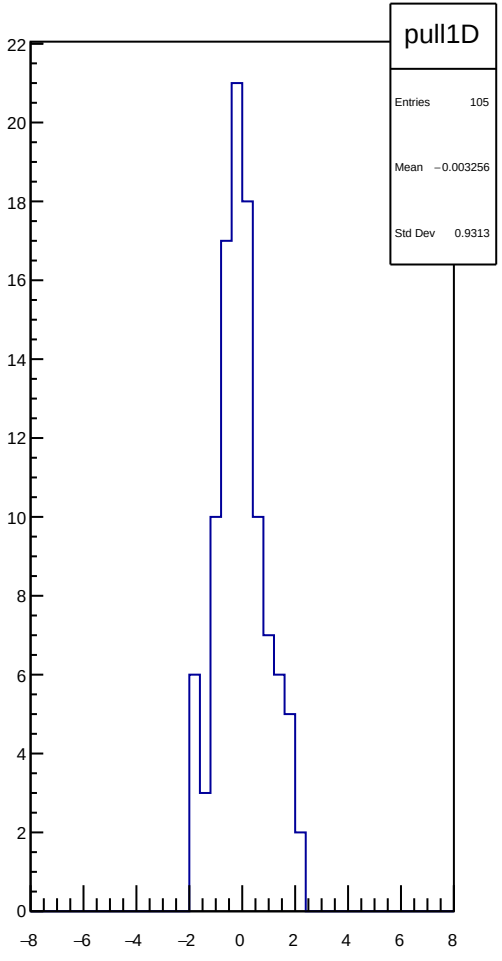

dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 8219 / 104
p0 95.18 ± 0.0672
140
130
120
110
100
90

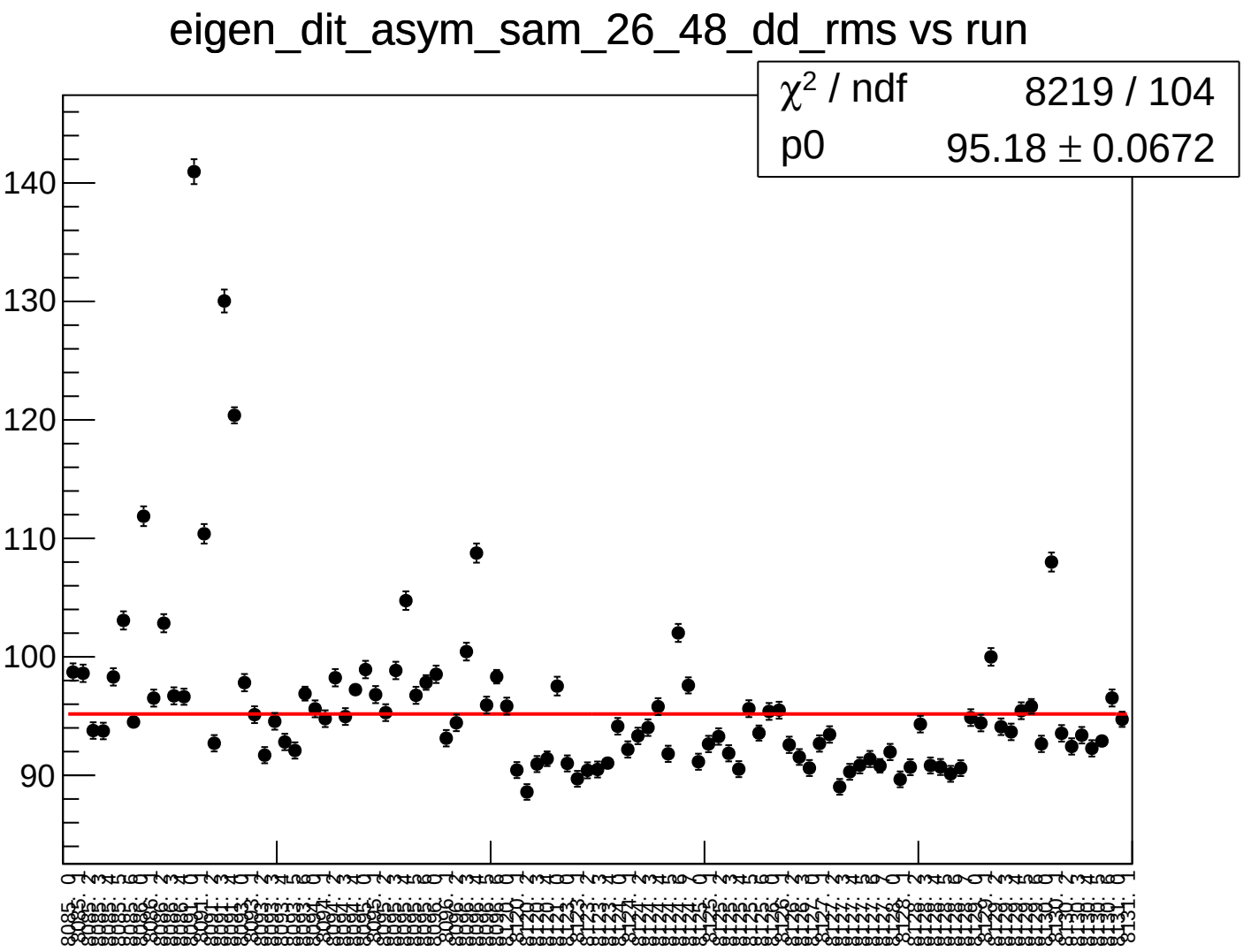

asym_sam_26_48_dd_dit_correction_mean vs run
χ² / ndf 83.96 / 105
p0 474.6 ± 567.1
pull
Entries 106
Mean 300.6
Std Dev 0

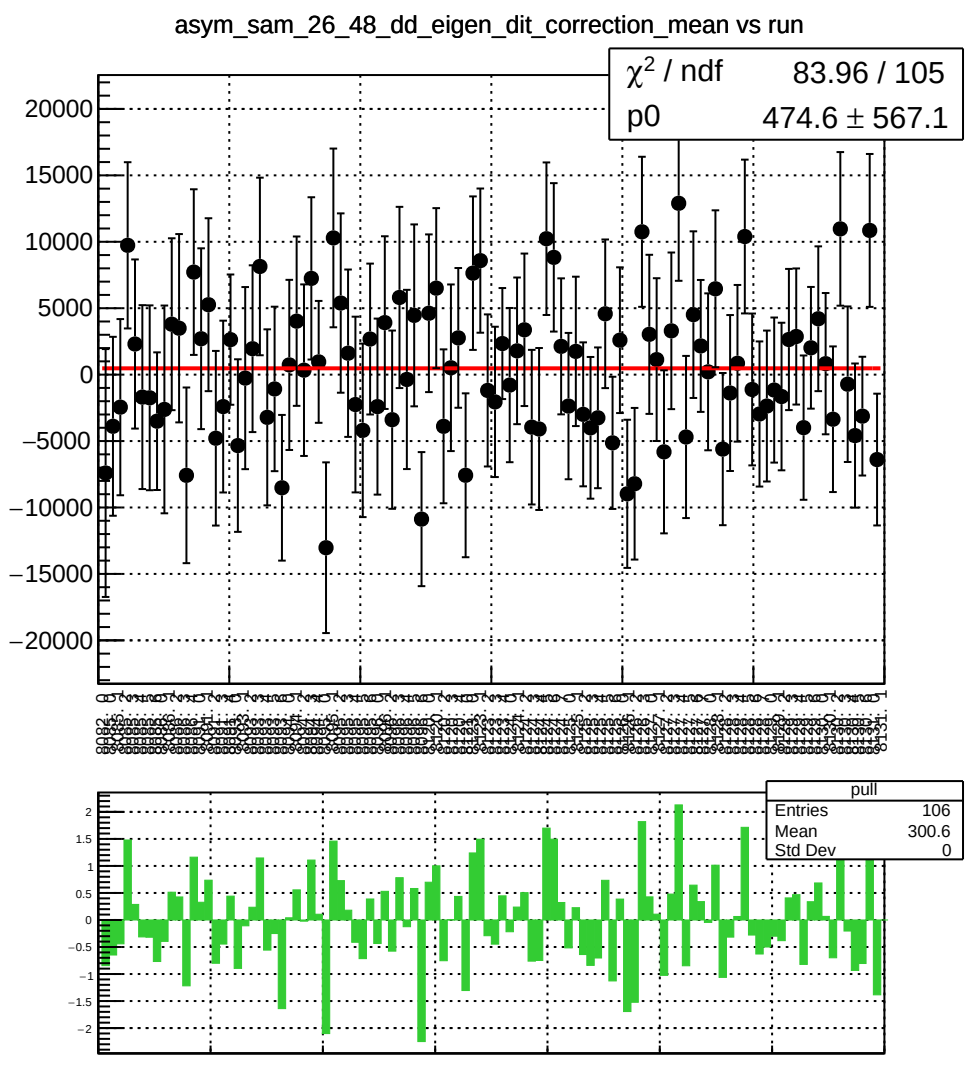

pull1D
Entries 106
Mean 0.003726
Std Dev 0.89

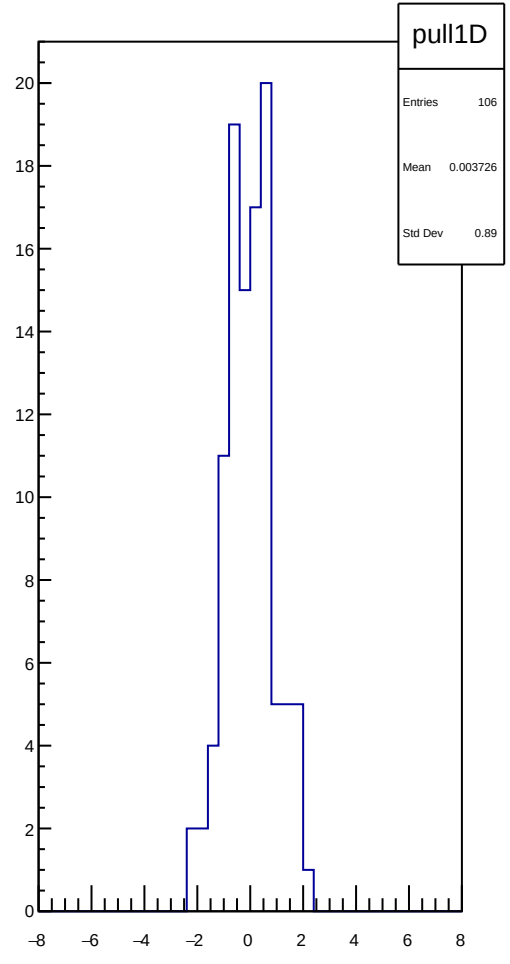

asym_sam_26_48_dd_dit_correction_rms vs run
χ² / ndf 1.408e+04 / 105
p0 568.4 ± 0.401
750
700
650
600
550
500

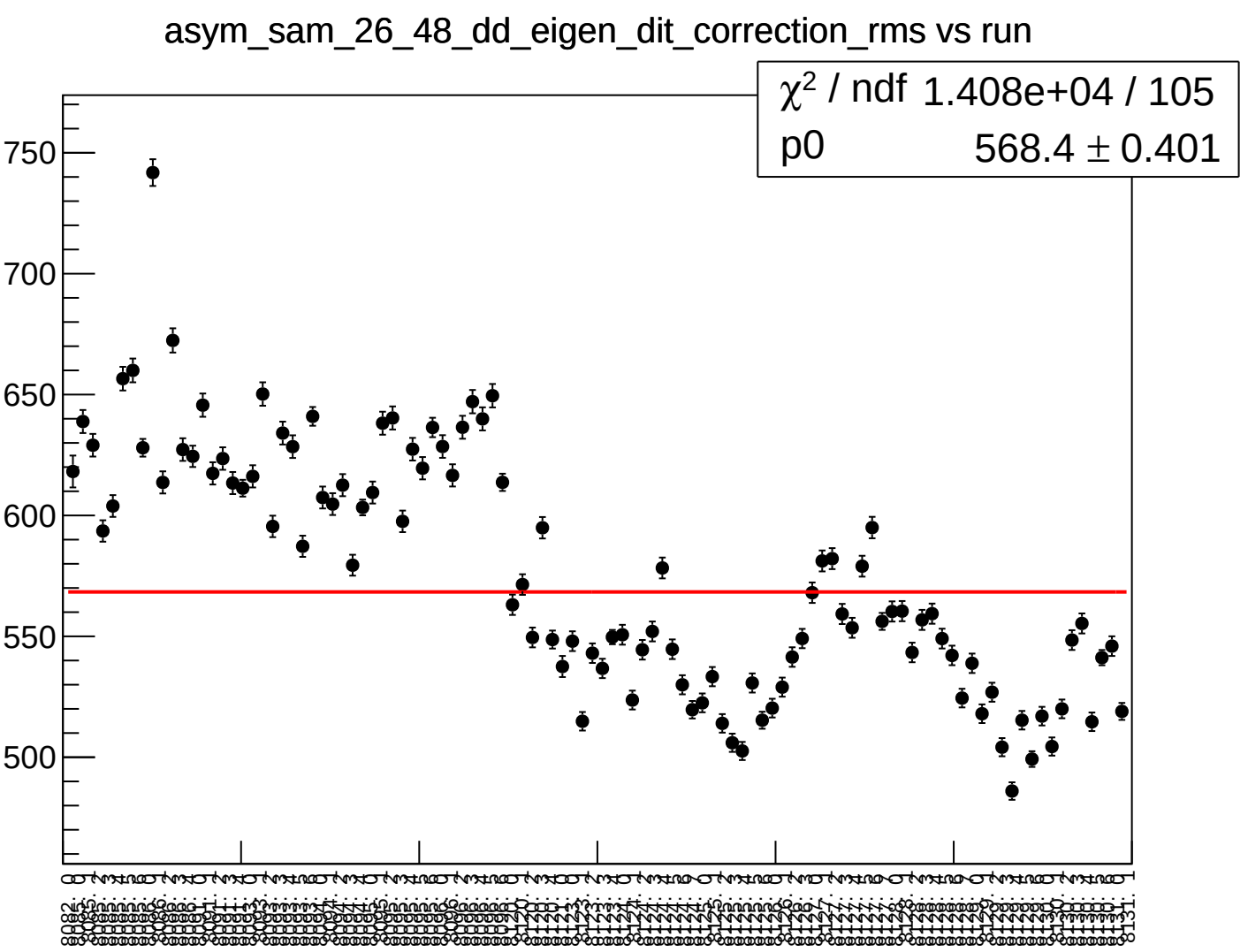

eigen_dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 91.07 / 104
p0 −194.6 ± 95.03
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 105
Mean −393.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

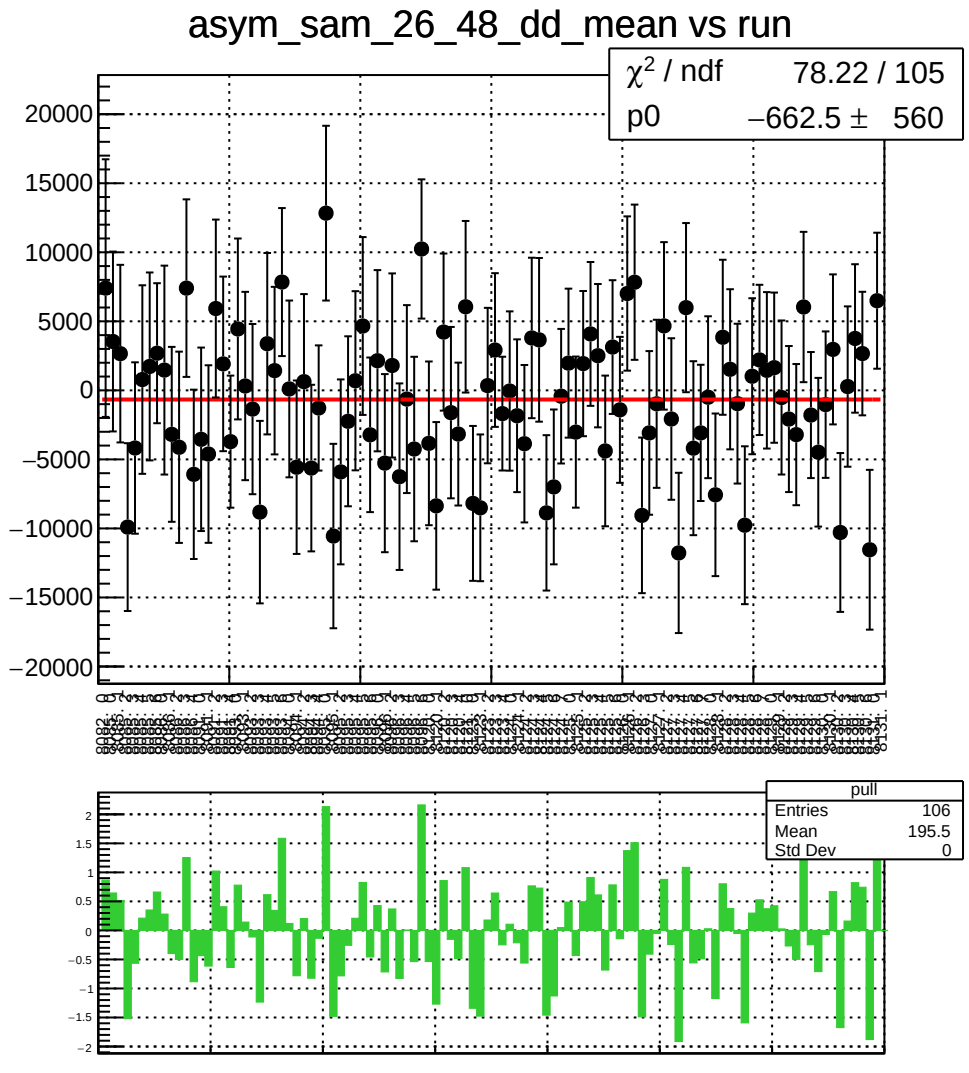

pull1D
Entries 105
Mean −0.003256
Std Dev 0.9313
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

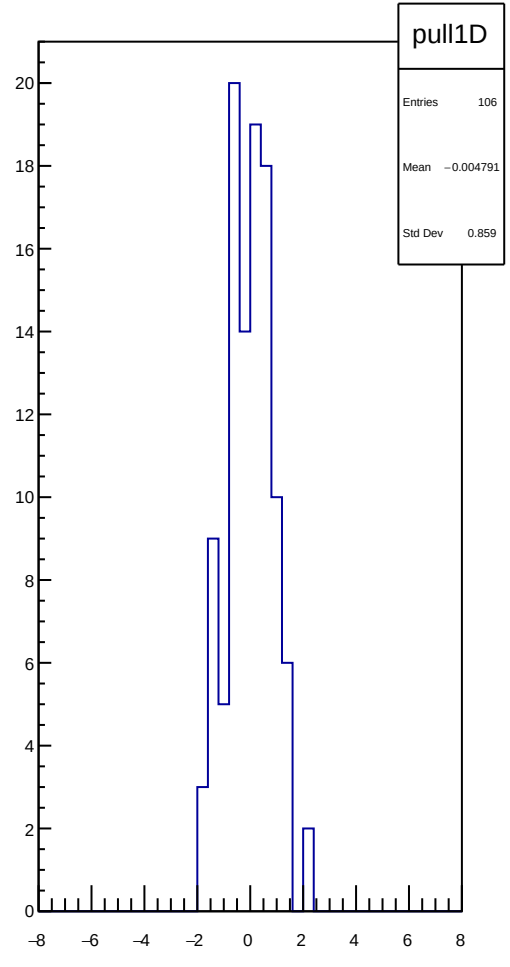

eigen_dit_asym_sam_26_48_dd_rms vs run
χ² / ndf 8219 / 104
p0 95.18 ± 0.0672
140
130
120
110
100
90

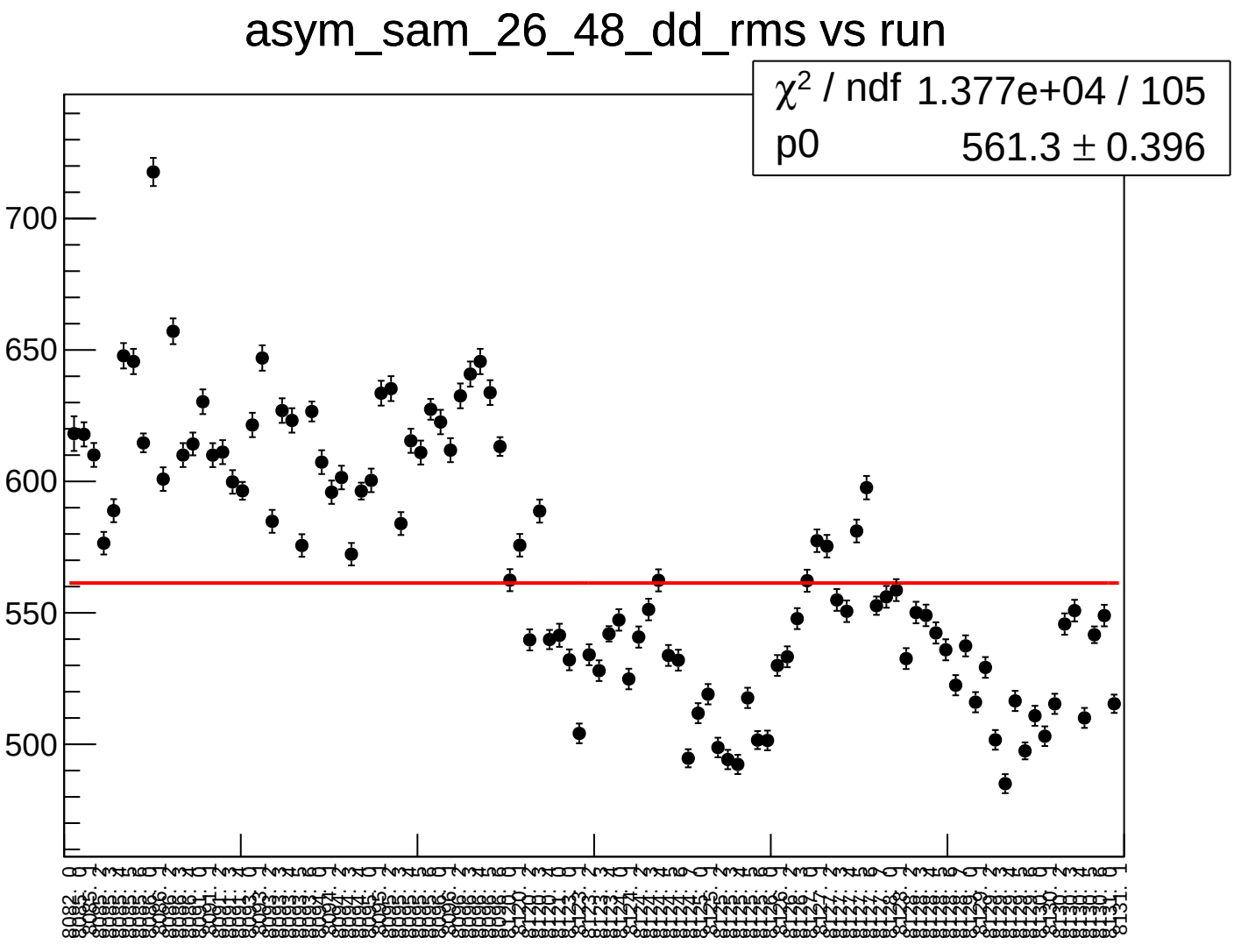

asym_sam_26_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 83.96 / 105
p0 474.6 ± 567.1
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 106
Mean 300.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

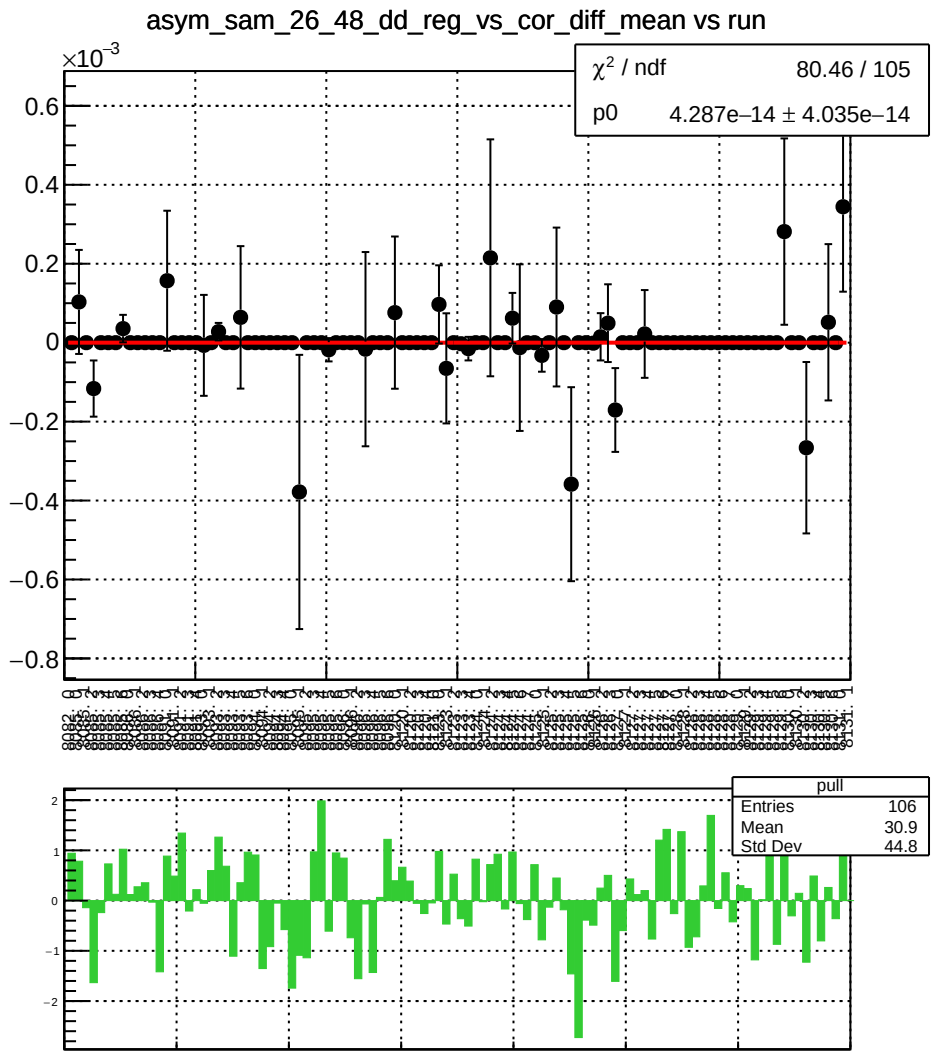

pull1D
Entries 106
Mean 0.003726
Std Dev 0.89
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

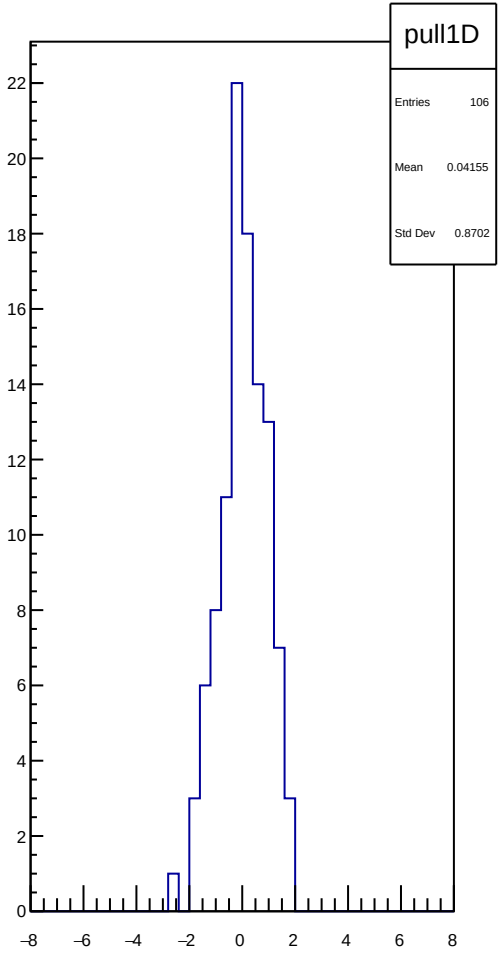

asym_sam_26_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.408e+04 / 105
p0 568.4 ± 0.401
750
700
650
600
550
500

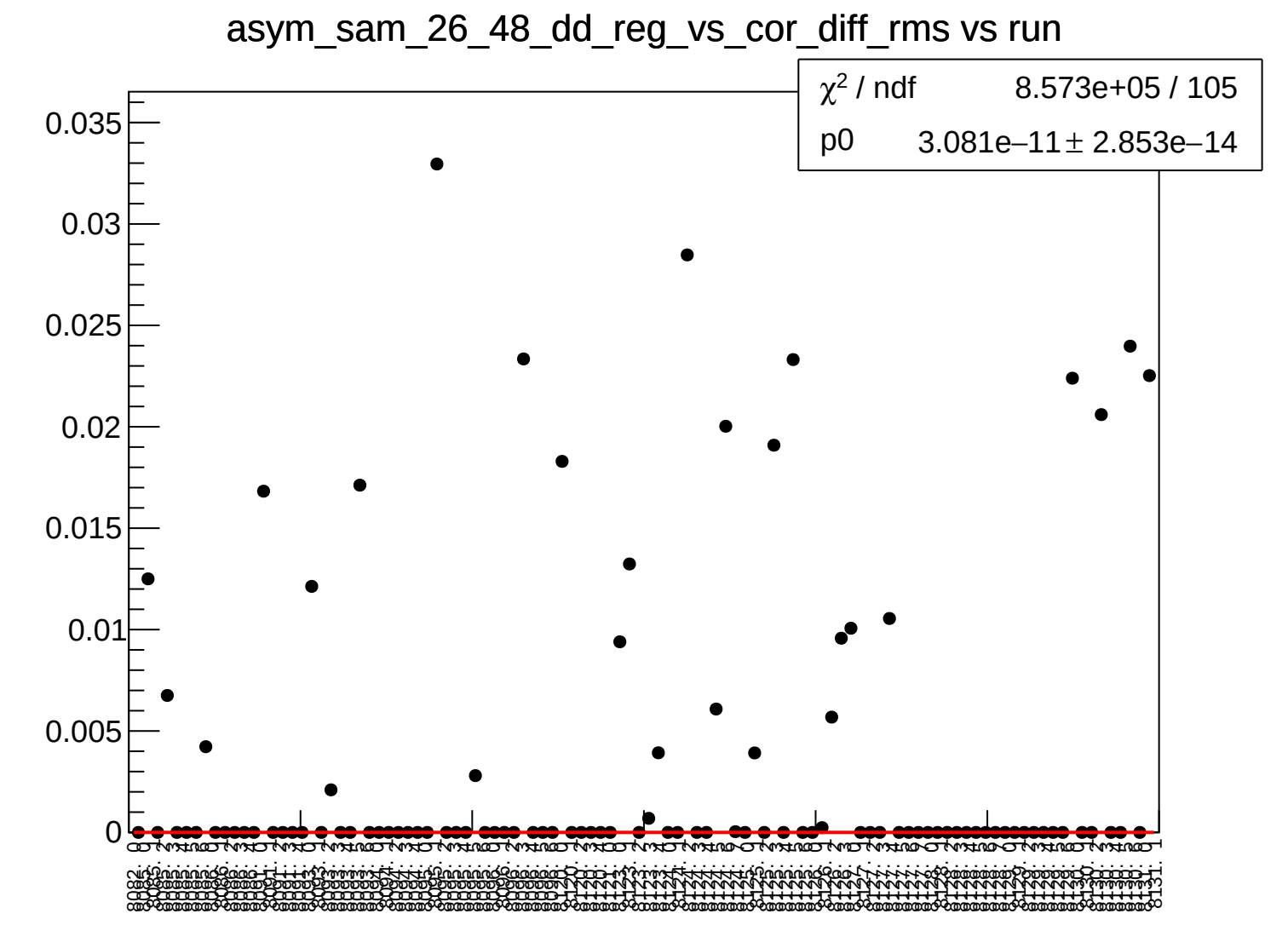

asym_sam_26_48_dd_mean vs run
χ² / ndf 78.22 / 105
p0 −662.5 ± 560
pull
Entries 106
Mean 195.5
Std Dev 0

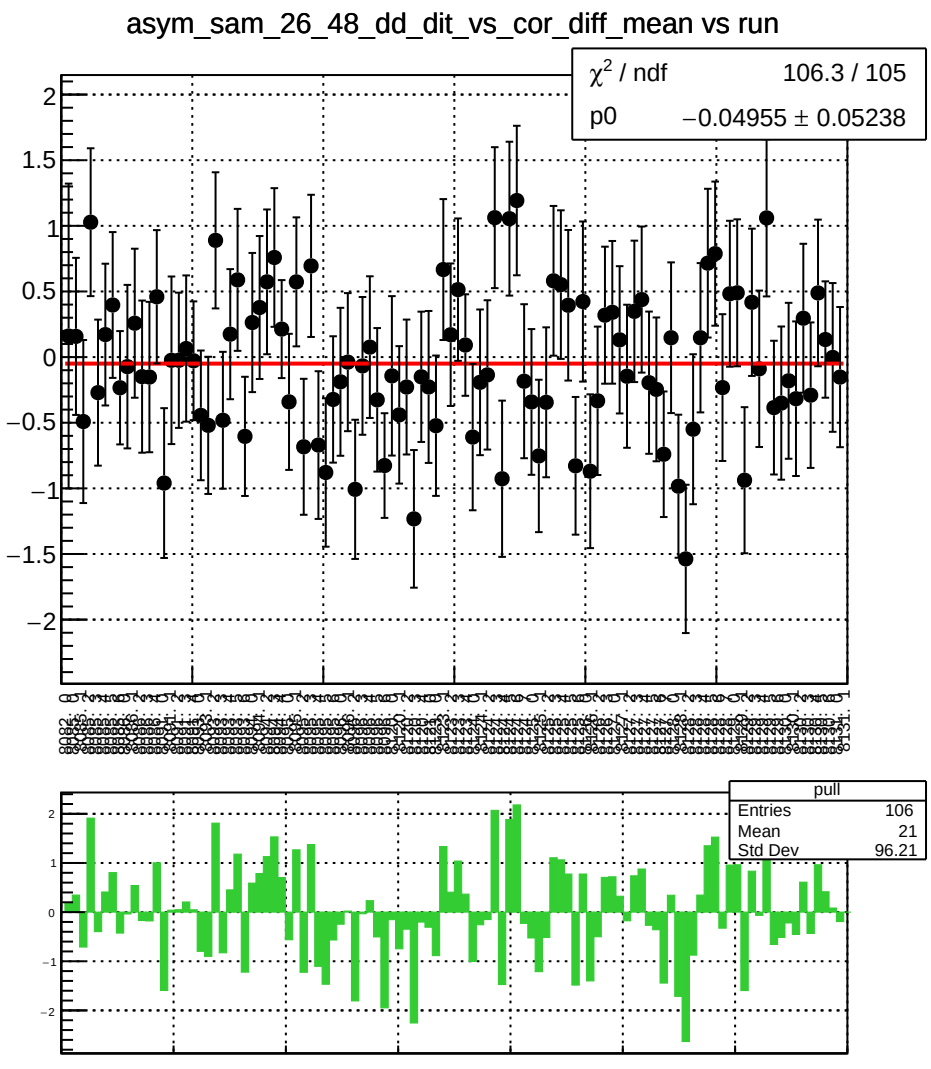

pull1D
Entries 106
Mean −0.004791
Std Dev 0.859

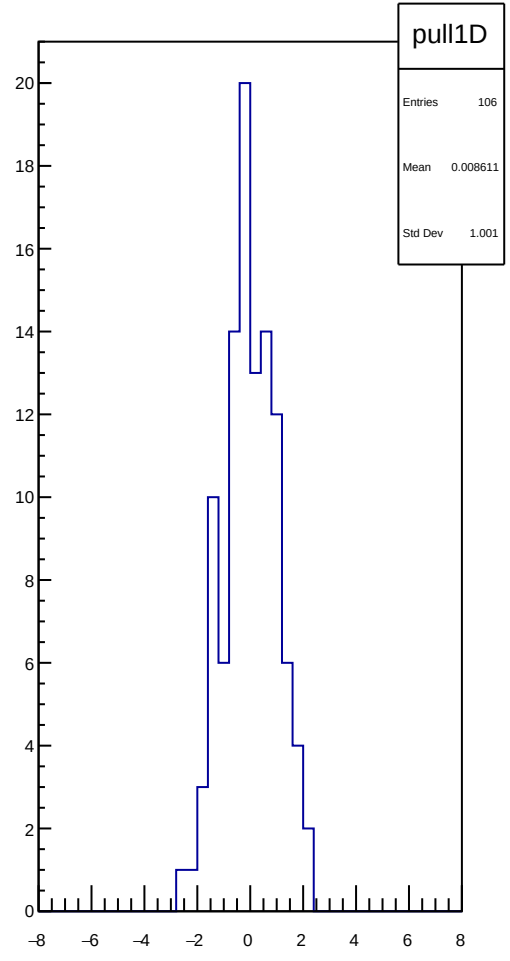

asym_sam_26_48_dd_rms vs run
χ² / ndf 1.377e+04 / 105
p0 561.3 ± 0.396
700
650
600
550
500

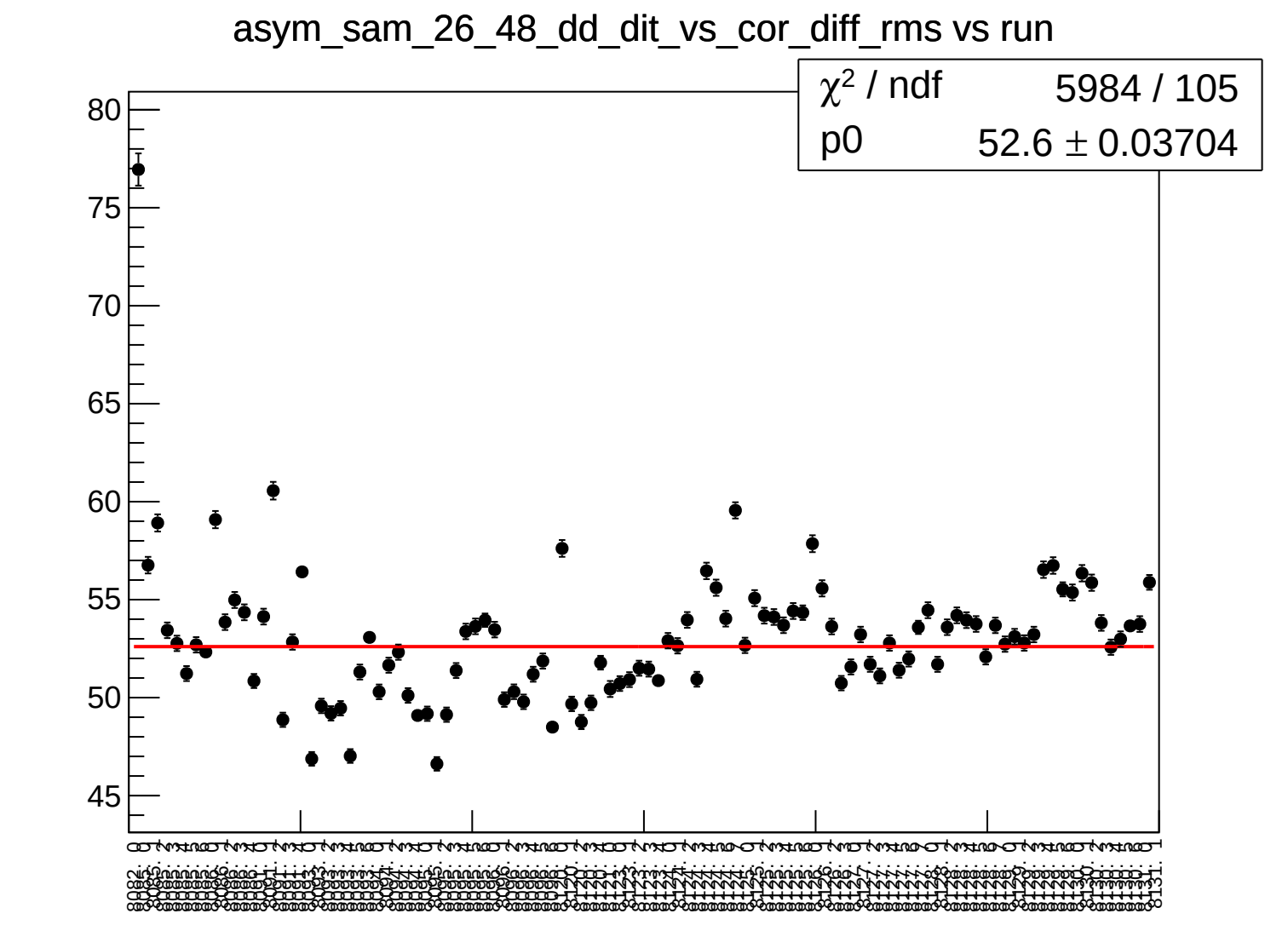

asym_sam_26_48_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 80.46 / 105
p0 4.287e−14 ± 4.035e−14
pull
Entries 106
Mean 30.9
Std Dev 44.8

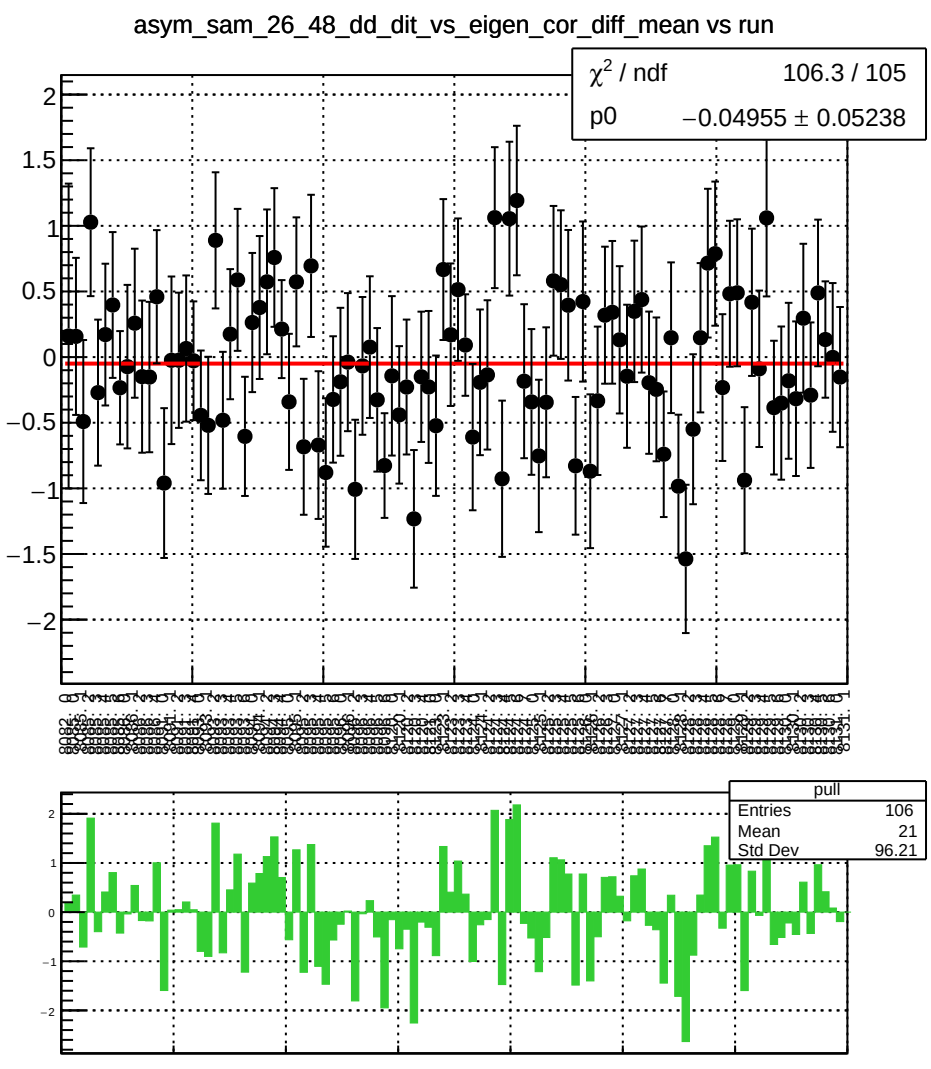

pull1D
Entries 106
Mean 0.04155
Std Dev 0.8702

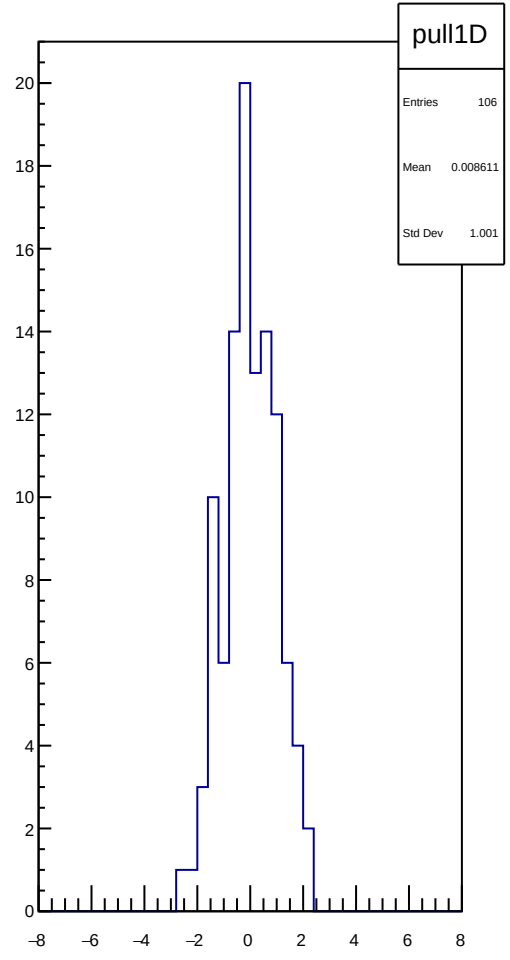

asym_sam_26_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.573e+05 / 105
p0 3.081e−11 ± 2.853e−14
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

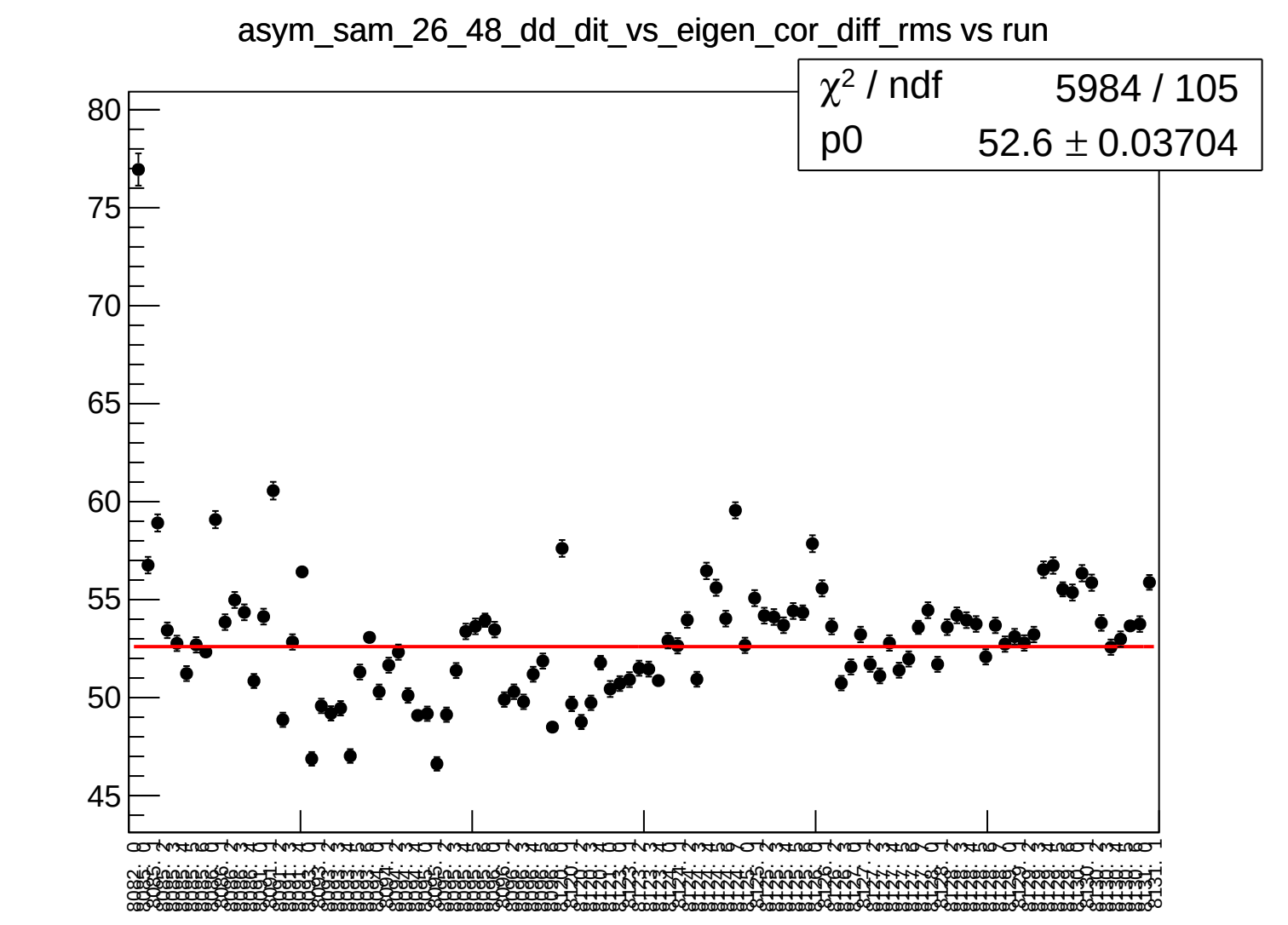

asym_sam_26_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 106.3 / 105
p0 −0.04955 ± 0.05238
pull
Entries 106
Mean 21
Std Dev 96.21

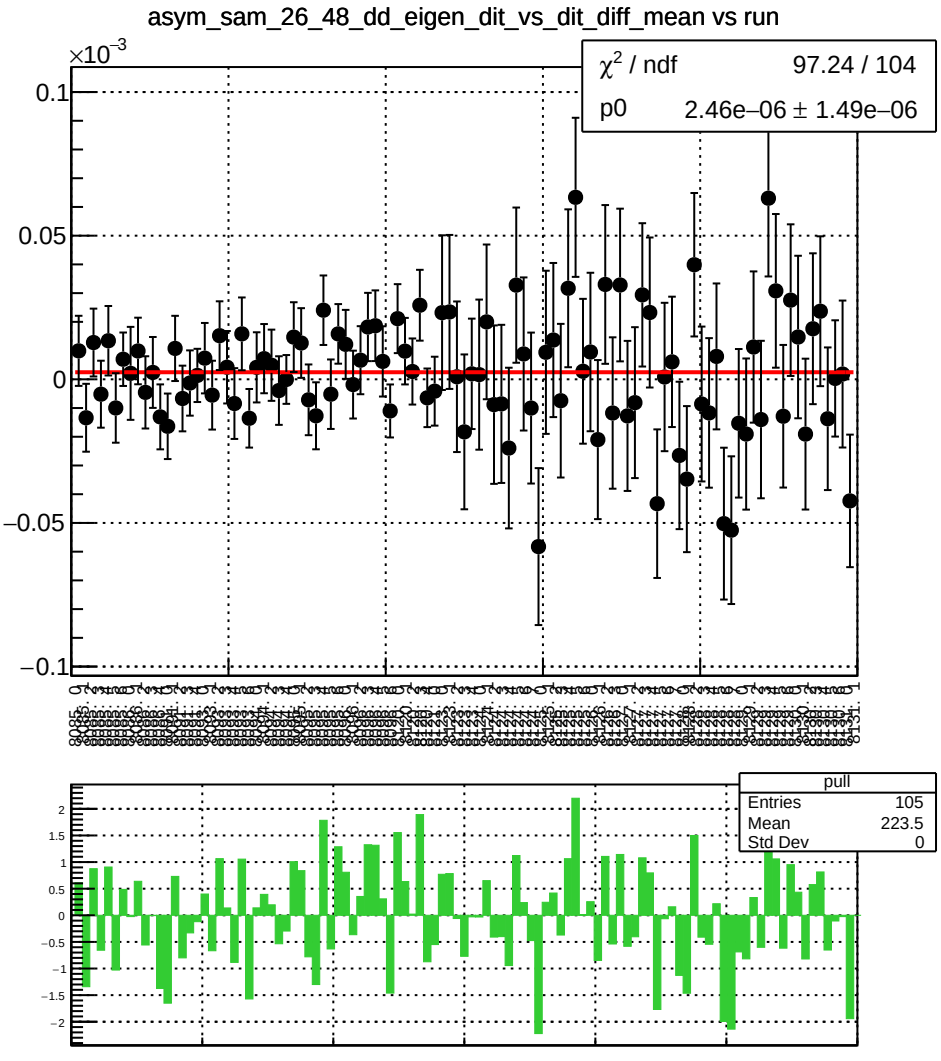

pull1D
Entries 106
Mean 0.008611
Std Dev 1.001

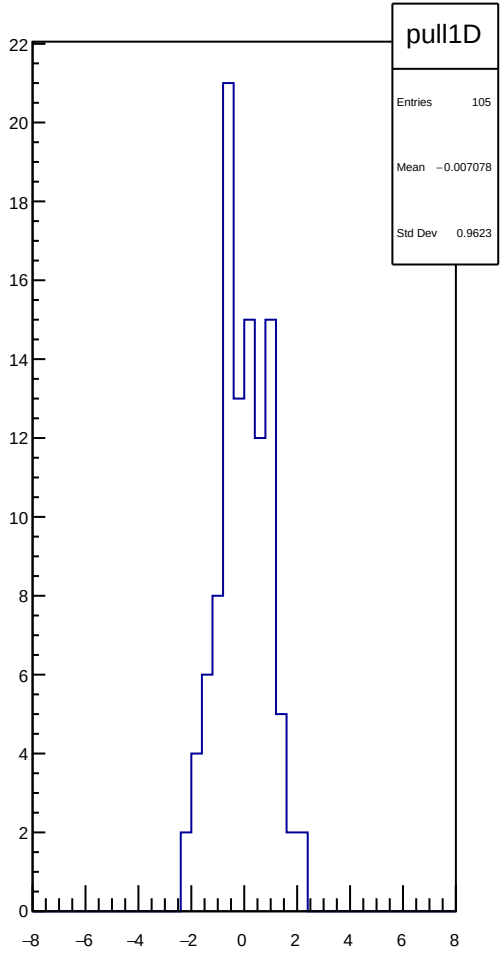

asym_sam_26_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5984 / 105
p0 52.6 ± 0.03704
80
75
70
65
60
55
50
45

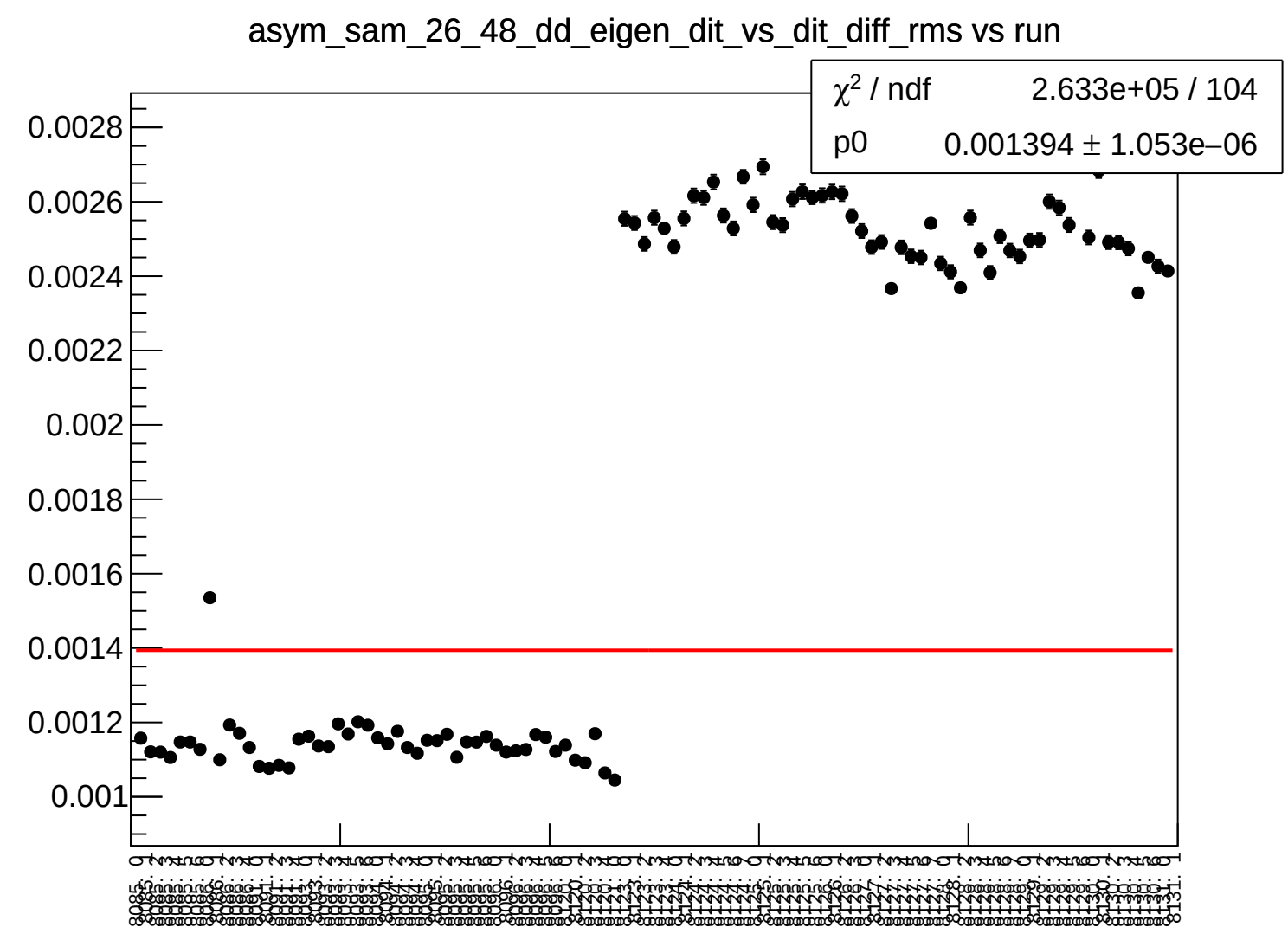

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.3 / 105
p0 −0.04955 ± 0.05238
pull
Entries 106
Mean 21
Std Dev 96.21

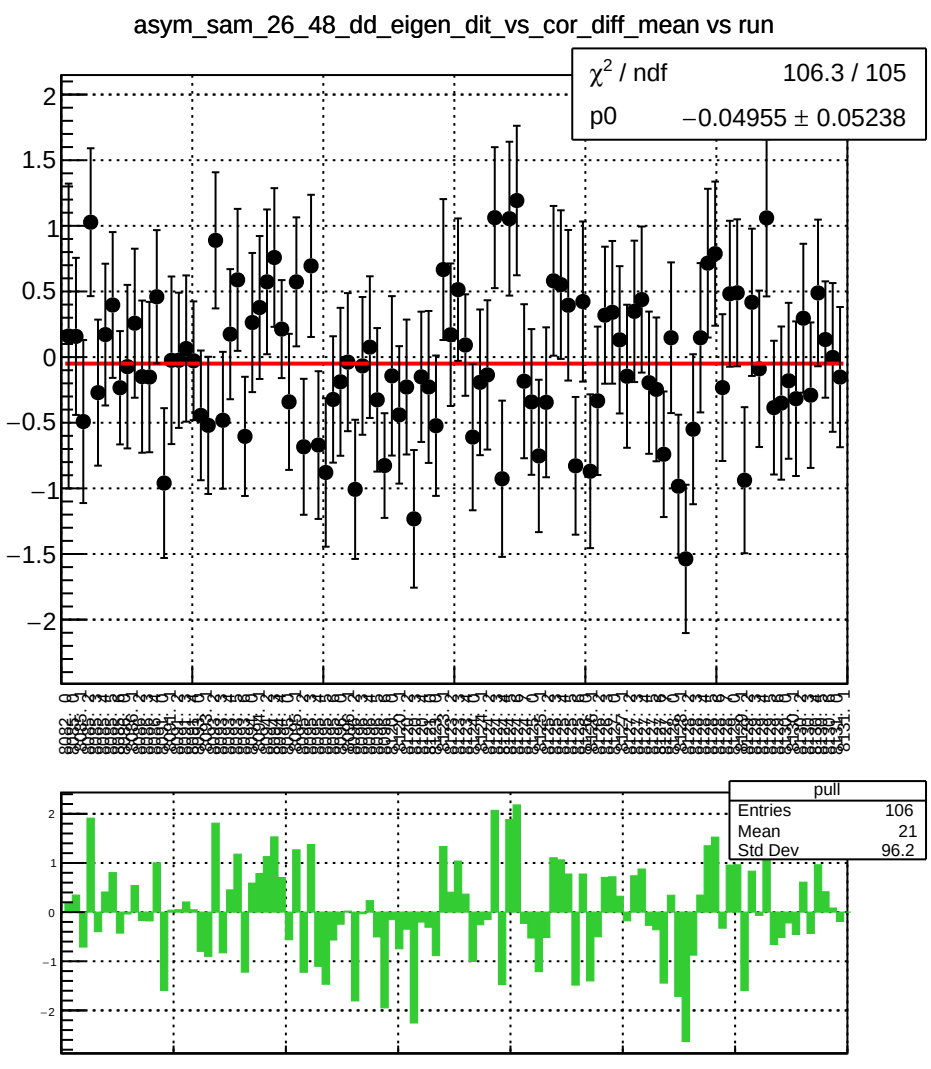

pull1D
Entries 106
Mean 0.008611
Std Dev 1.001

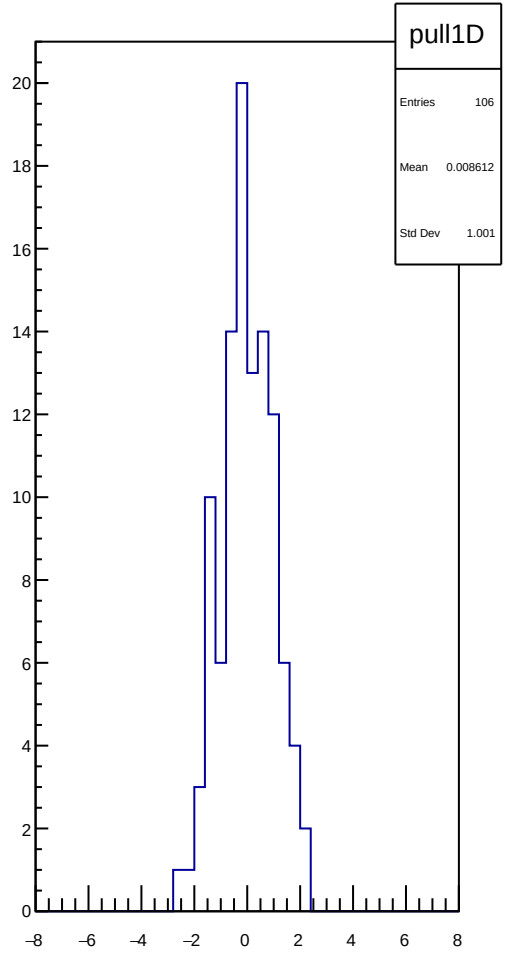

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5984 / 105
p0 52.6 ± 0.03704
80
75
70
65
60
55
50
45

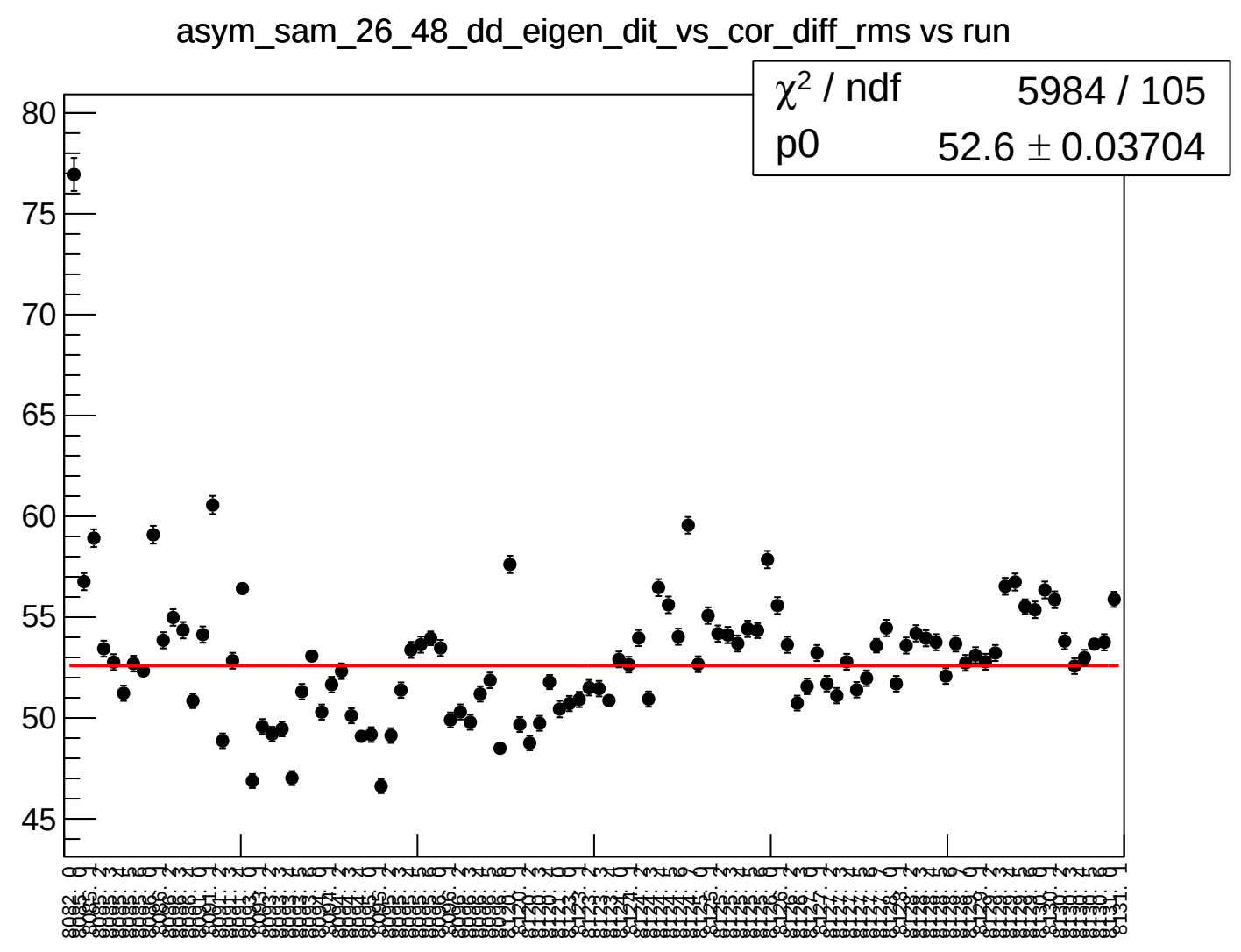

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 97.24 / 104
p0 2.46e−06 ± 1.49e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 105
Mean 223.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

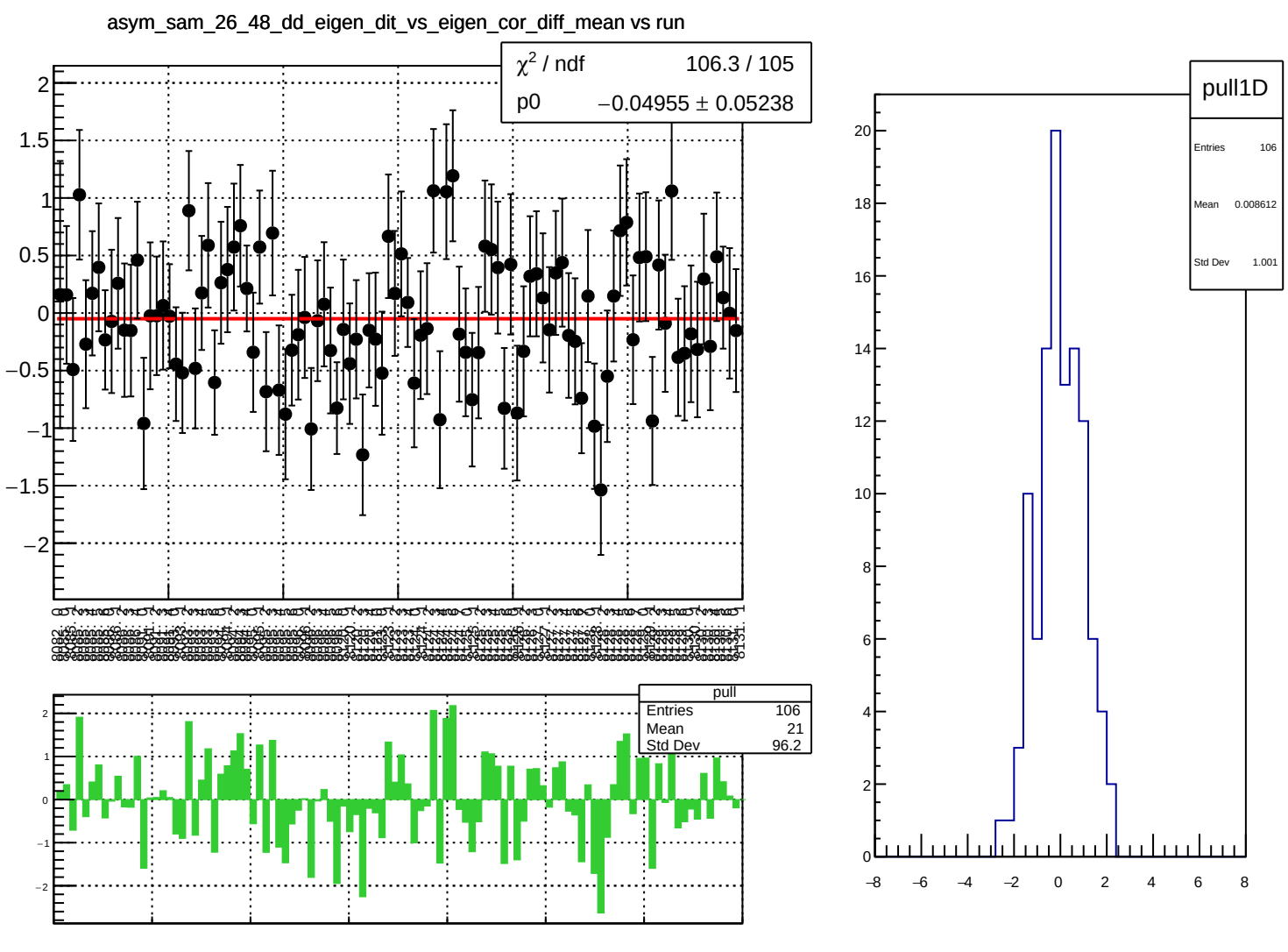

pull1D
Entries 105
Mean −0.007078
Std Dev 0.9623
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

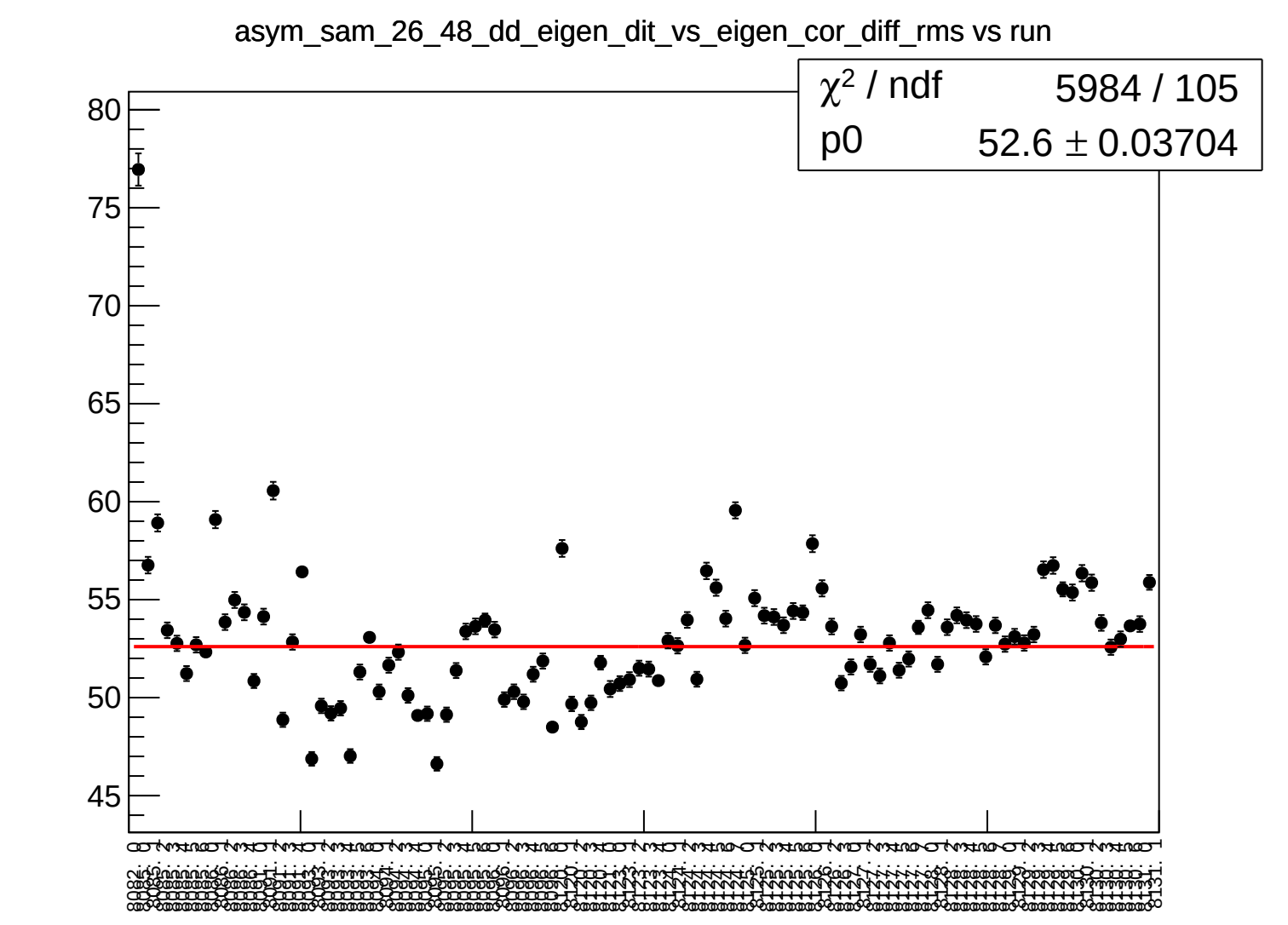

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.633e+05 / 104
p0 0.001394 ± 1.053e−06
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001

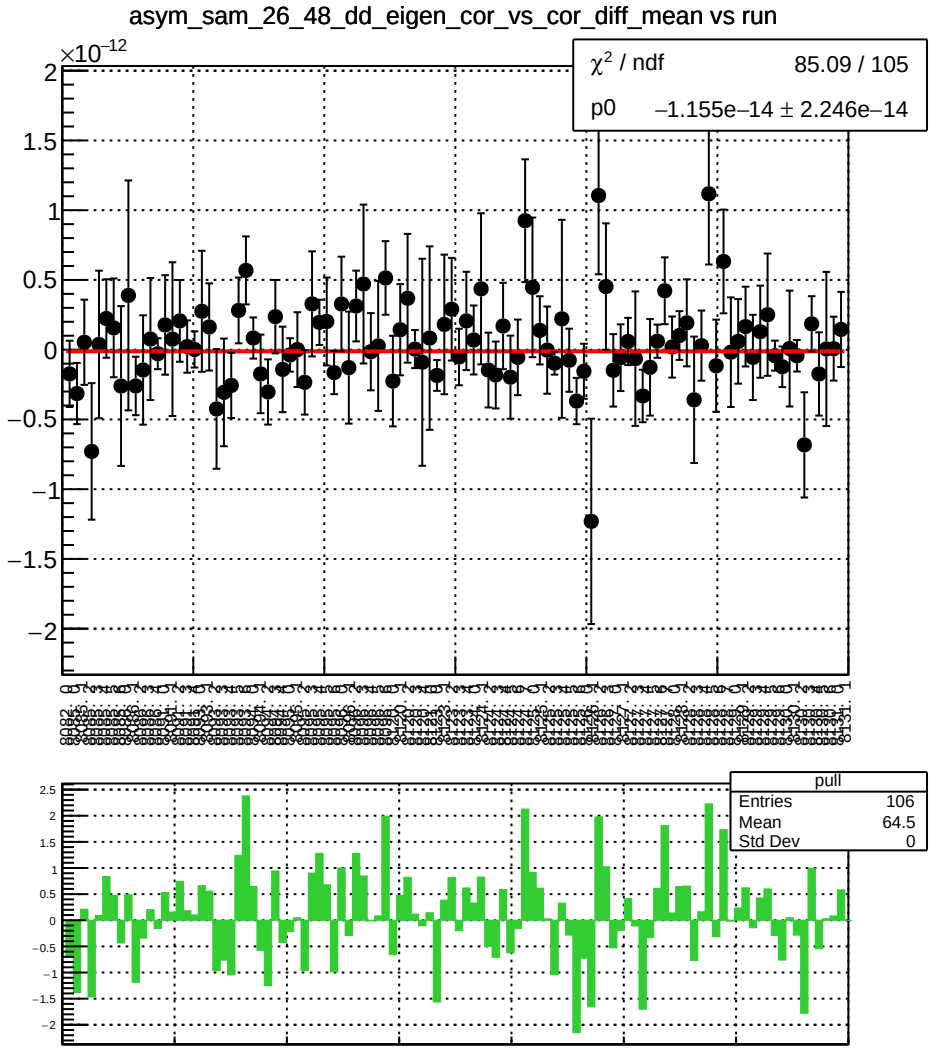

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 106.3 / 105
p0 −0.04955 ± 0.05238
pull
Entries 106
Mean 21
Std Dev 96.2

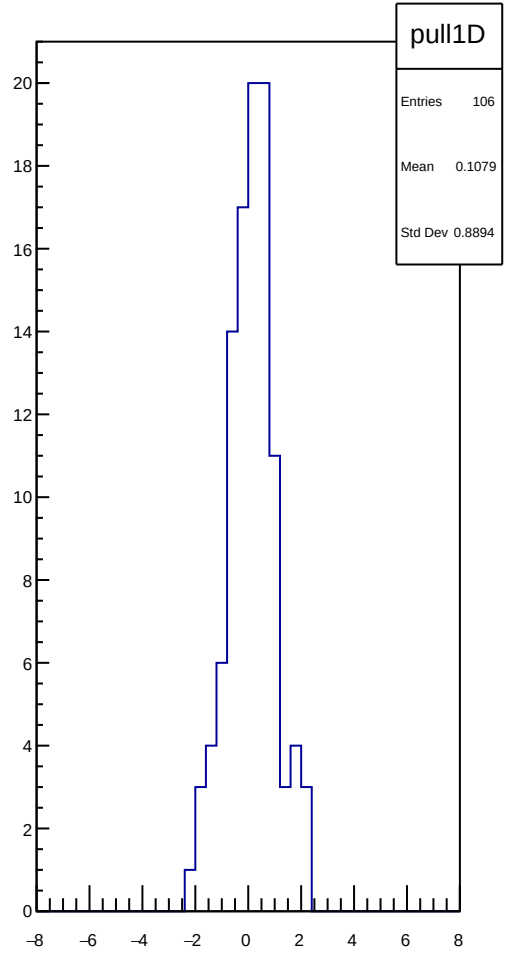

pull1D
Entries 106
Mean 0.008612
Std Dev 1.001

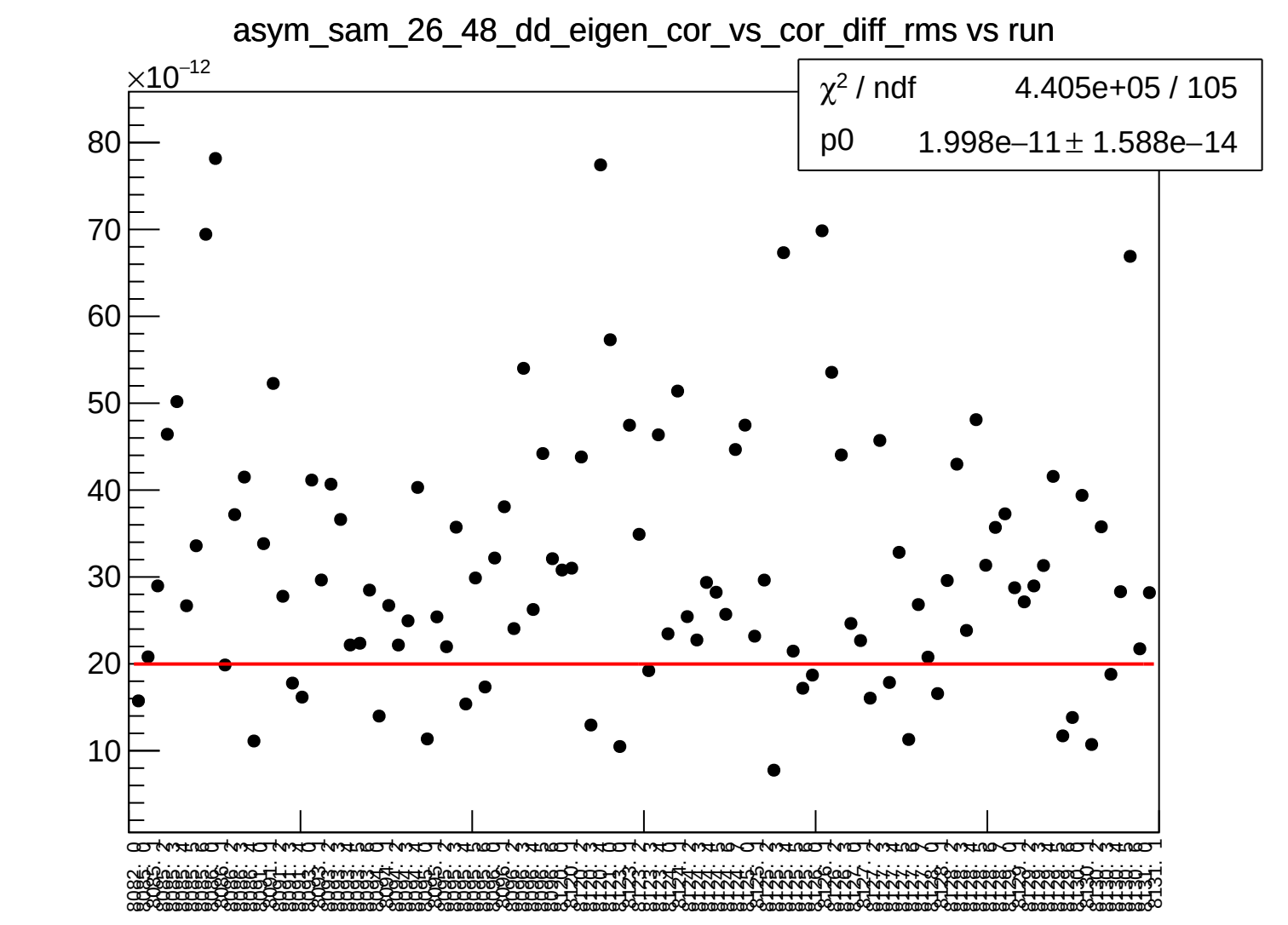

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5984 / 105
p0 52.6 ± 0.03704
80
75
70
65
60
55
50
45

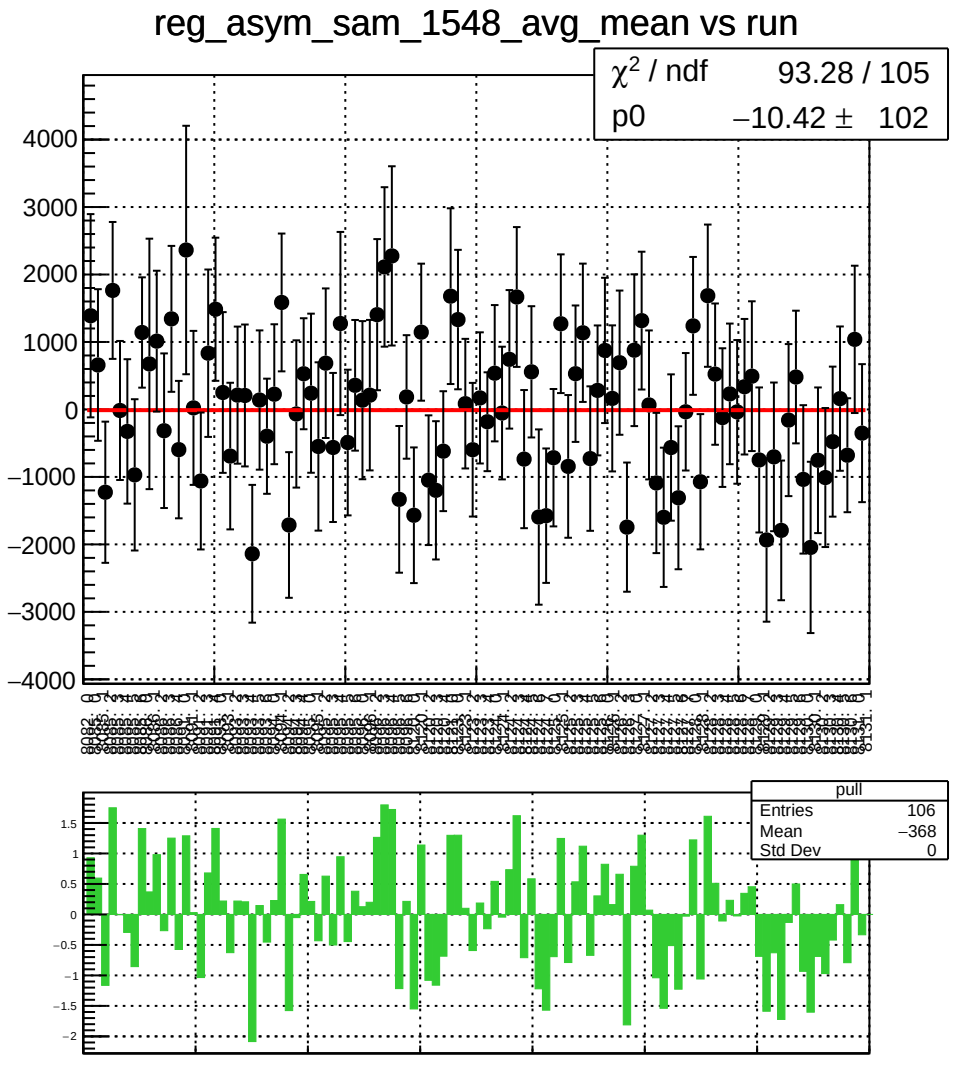

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.3 / 105
p0 −0.04955 ± 0.05238
pull
Entries 106
Mean 21
Std Dev 96.2
pull1D
Entries 106
Mean 0.008612
Std Dev 1.001

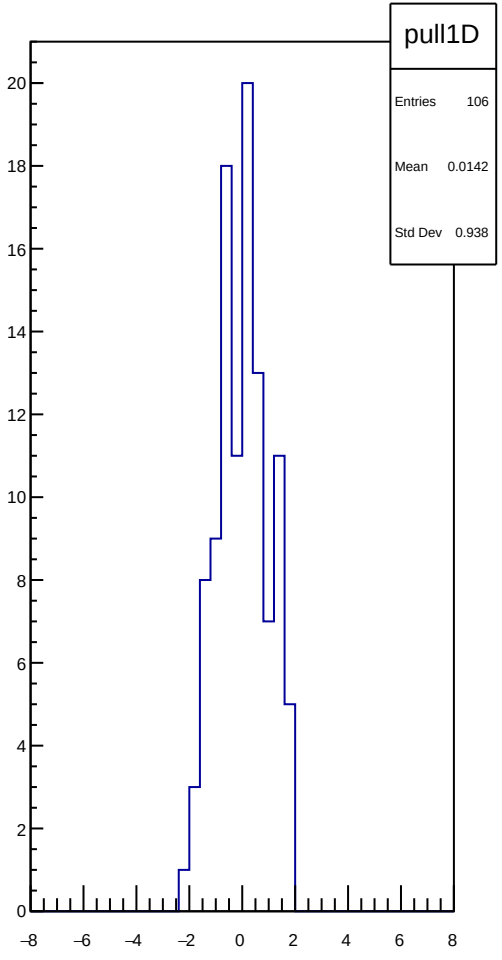

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5984 / 105
p0 52.6 ± 0.03704
80
75
70
65
60
55
50
45

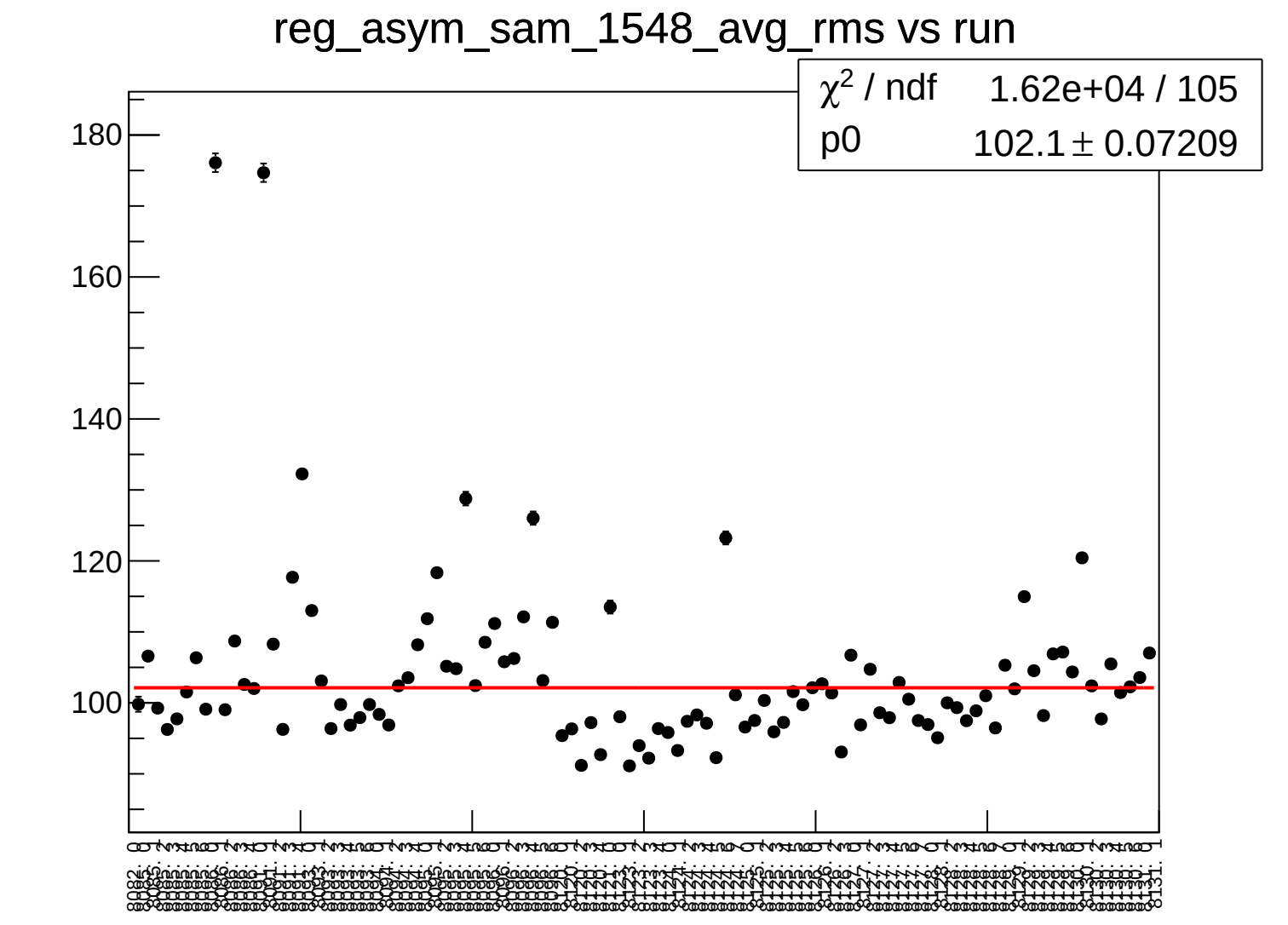

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10^-12
χ² / ndf 85.09 / 105
p0 −1.155e−14 ± 2.246e−14
pull
Entries 106
Mean 64.5
Std Dev 0

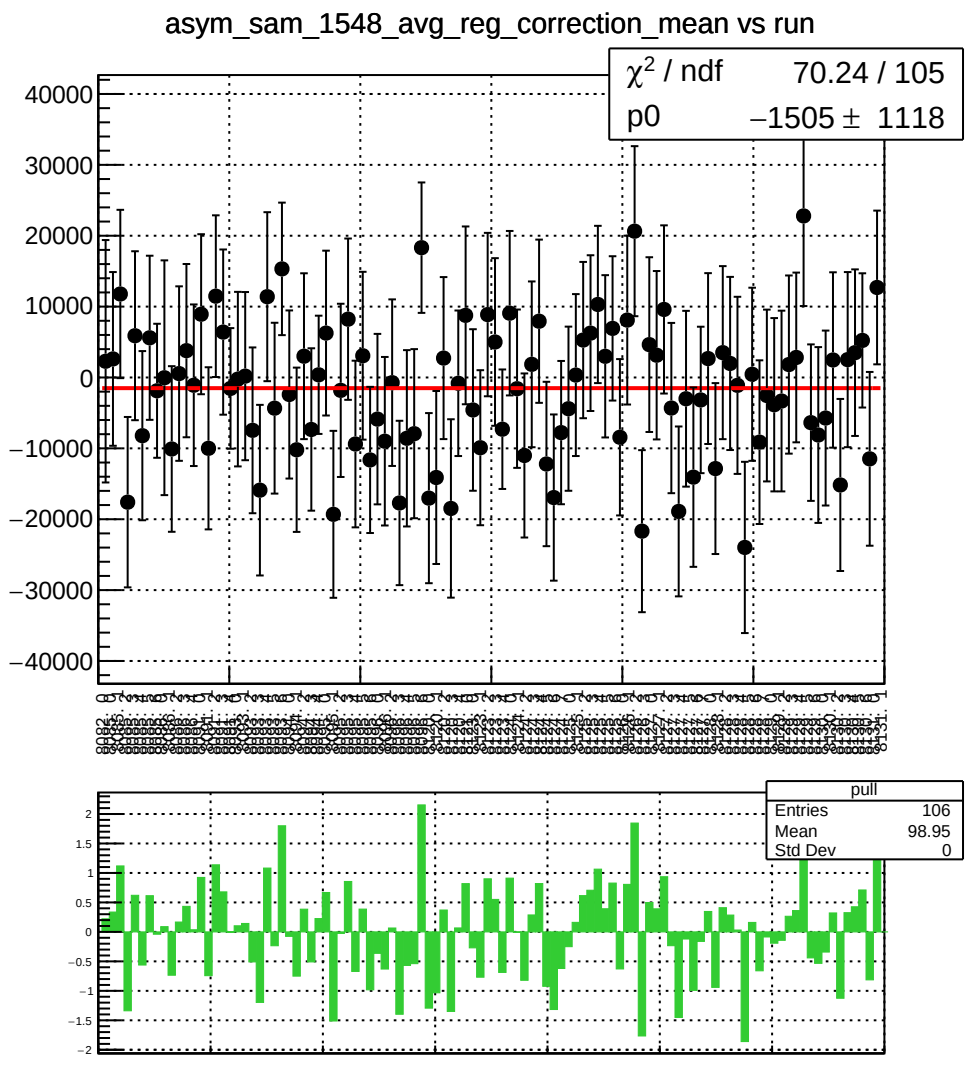

pull1D
Entries 106
Mean 0.1079
Std Dev 0.8894

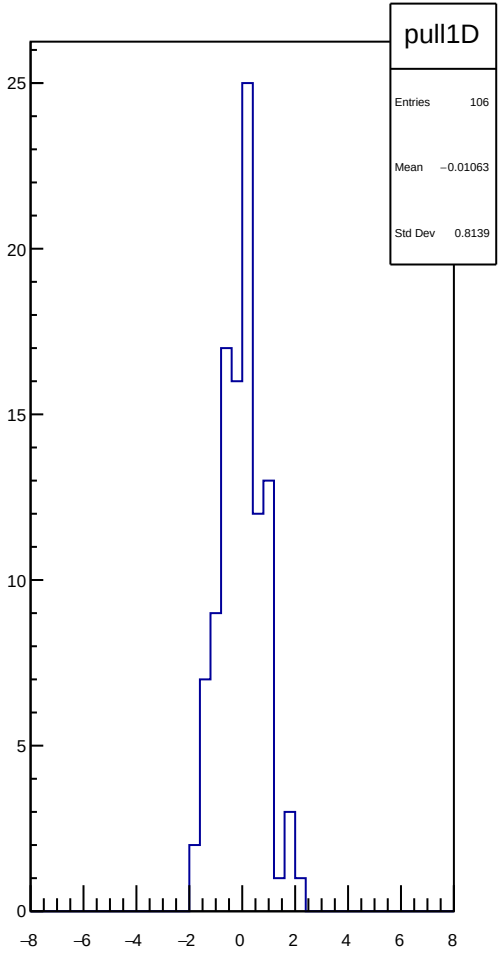

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 4.405e+05 / 105
p0 1.998e−11 ± 1.588e−14
80
70
60
50
40
30
20
10

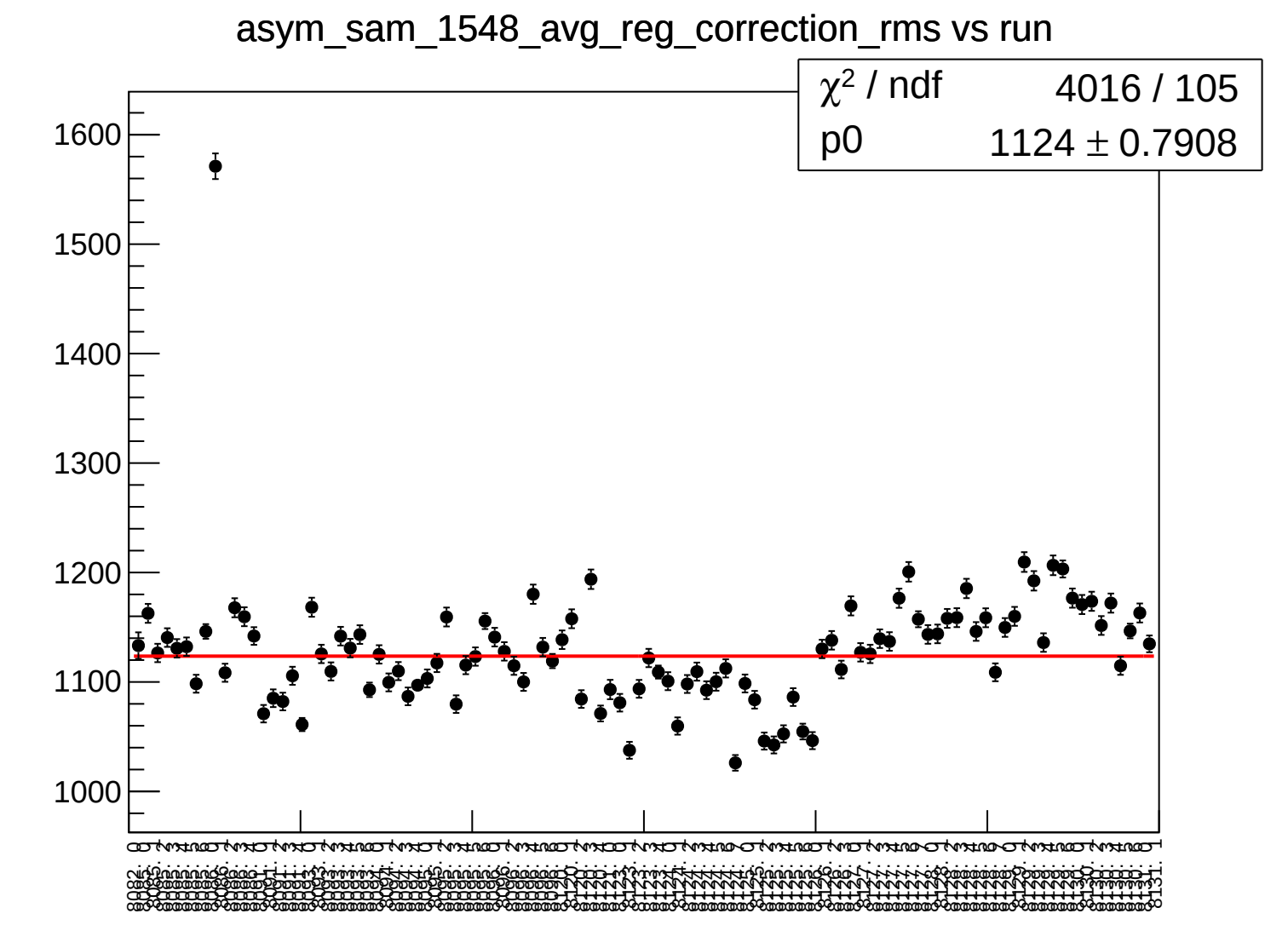

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 93.28 / 105
p0 −10.42 ± 102
pull
Entries 106
Mean −368
Std Dev 0

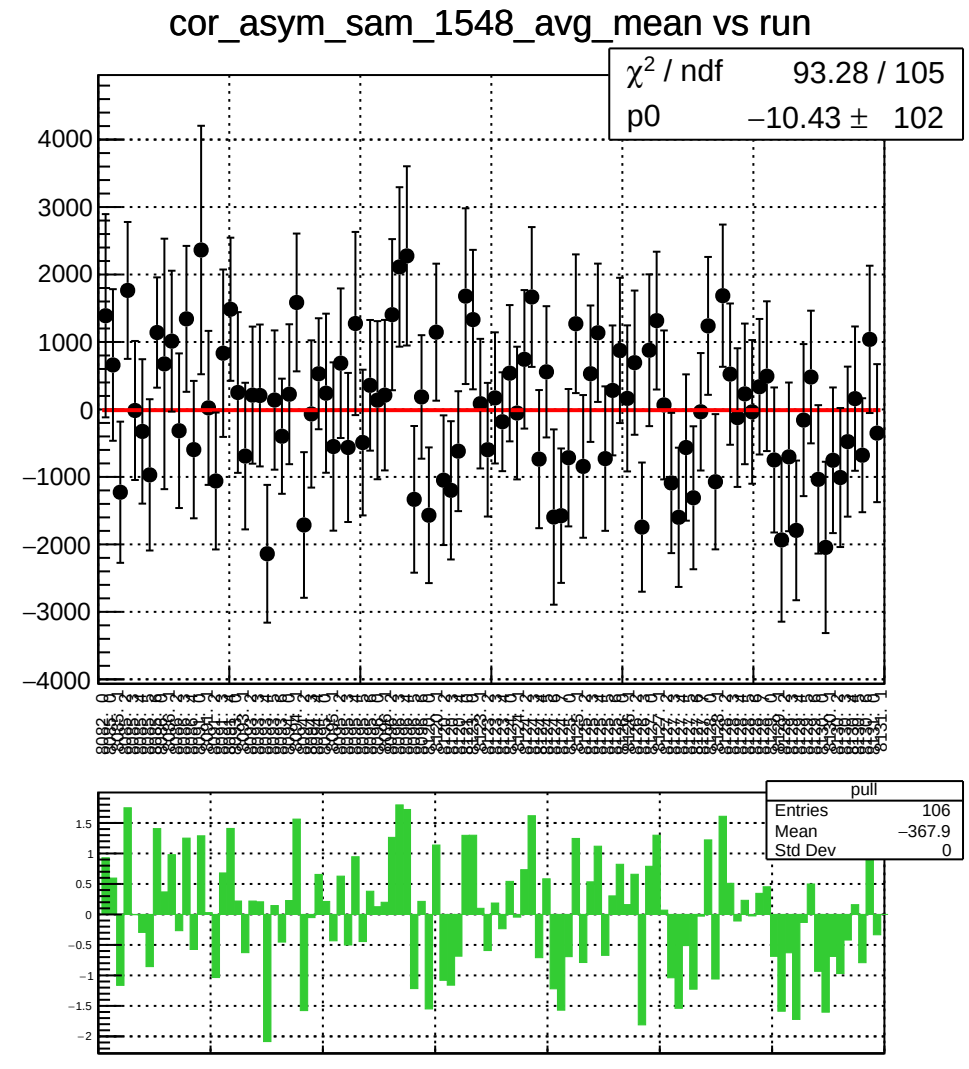

pull1D
Entries 106
Mean 0.0142
Std Dev 0.938

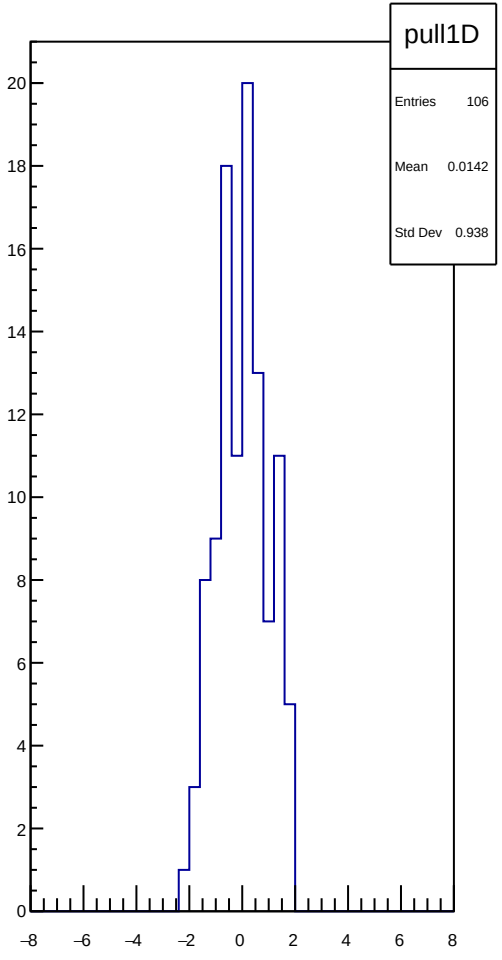

reg_asym_sam_1548_avg_rms vs run
$\chi^2$ / ndf 1.62e+04 / 105
p0 102.1 ± 0.07209
180
160
140
120
100

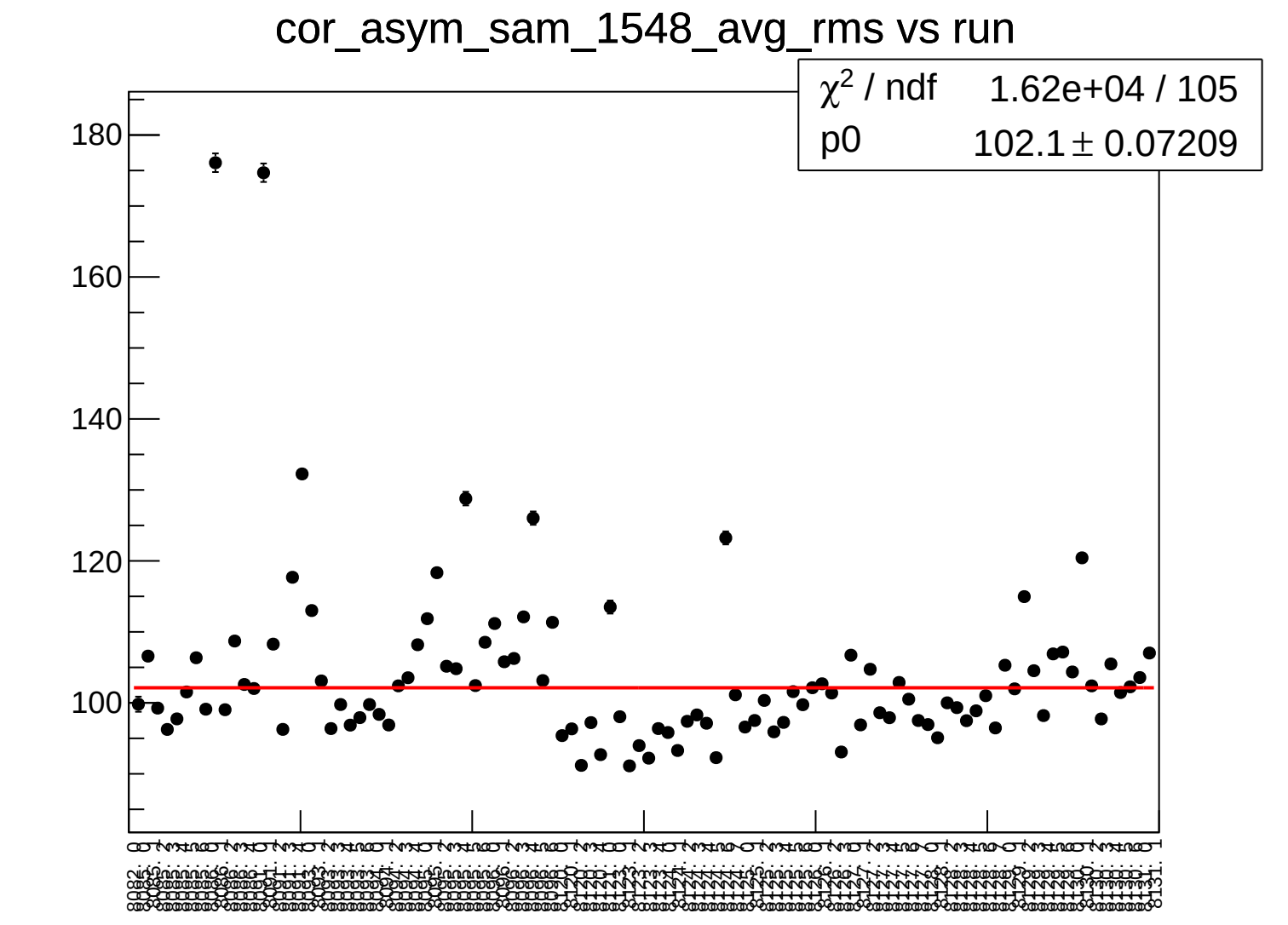

asym_sam_1548_avg_reg_correction_mean vs run
χ² / ndf 70.24 / 105
p0 −1505 ± 1118
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 106
Mean 98.95
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

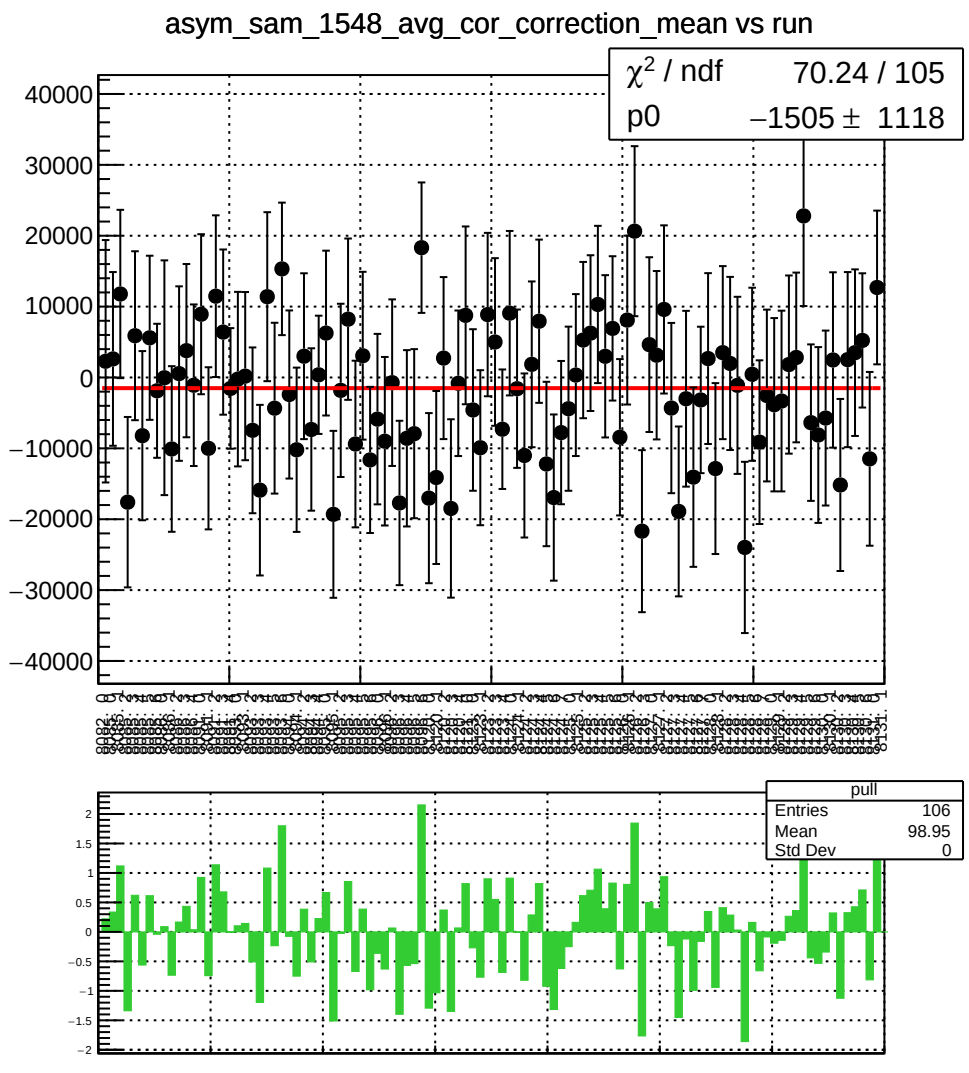

pull1D
Entries 106
Mean −0.01063
Std Dev 0.8139
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

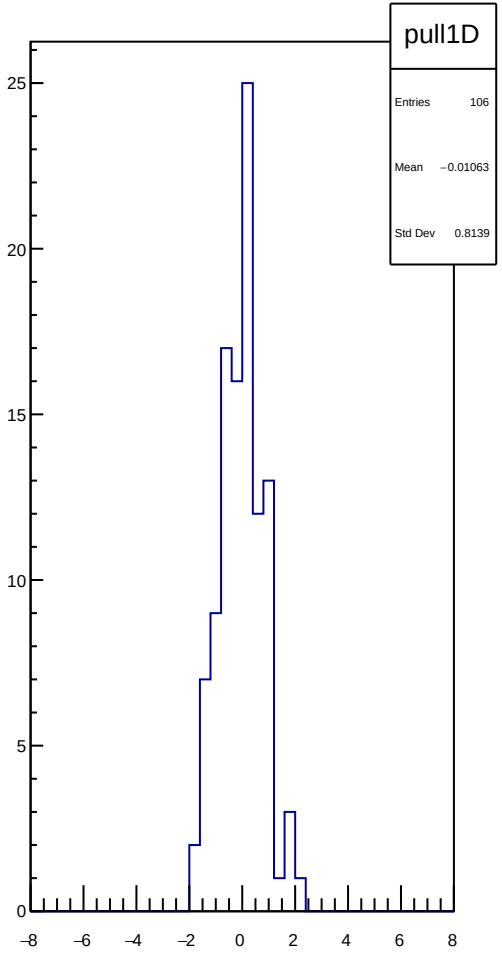

asym_sam_1548_avg_reg_correction_rms vs run
χ² / ndf 4016 / 105
p0 1124 ± 0.7908
1600
1500
1400
1300
1200
1100
1000

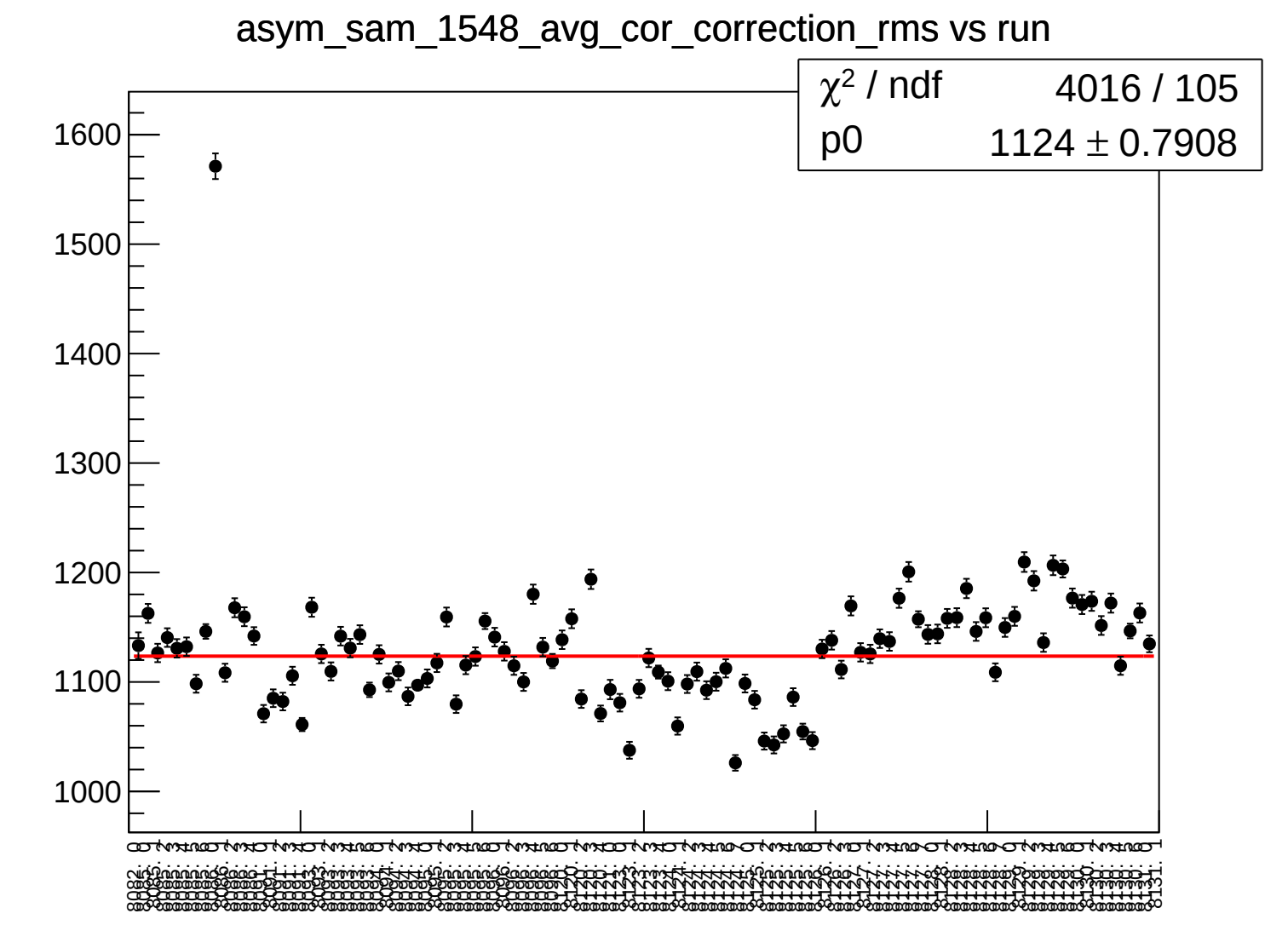

cor_asym_sam_1548_avg_mean vs run
χ² / ndf 93.28 / 105
p0 −10.43 ± 102
pull
Entries 106
Mean −367.9
Std Dev 0

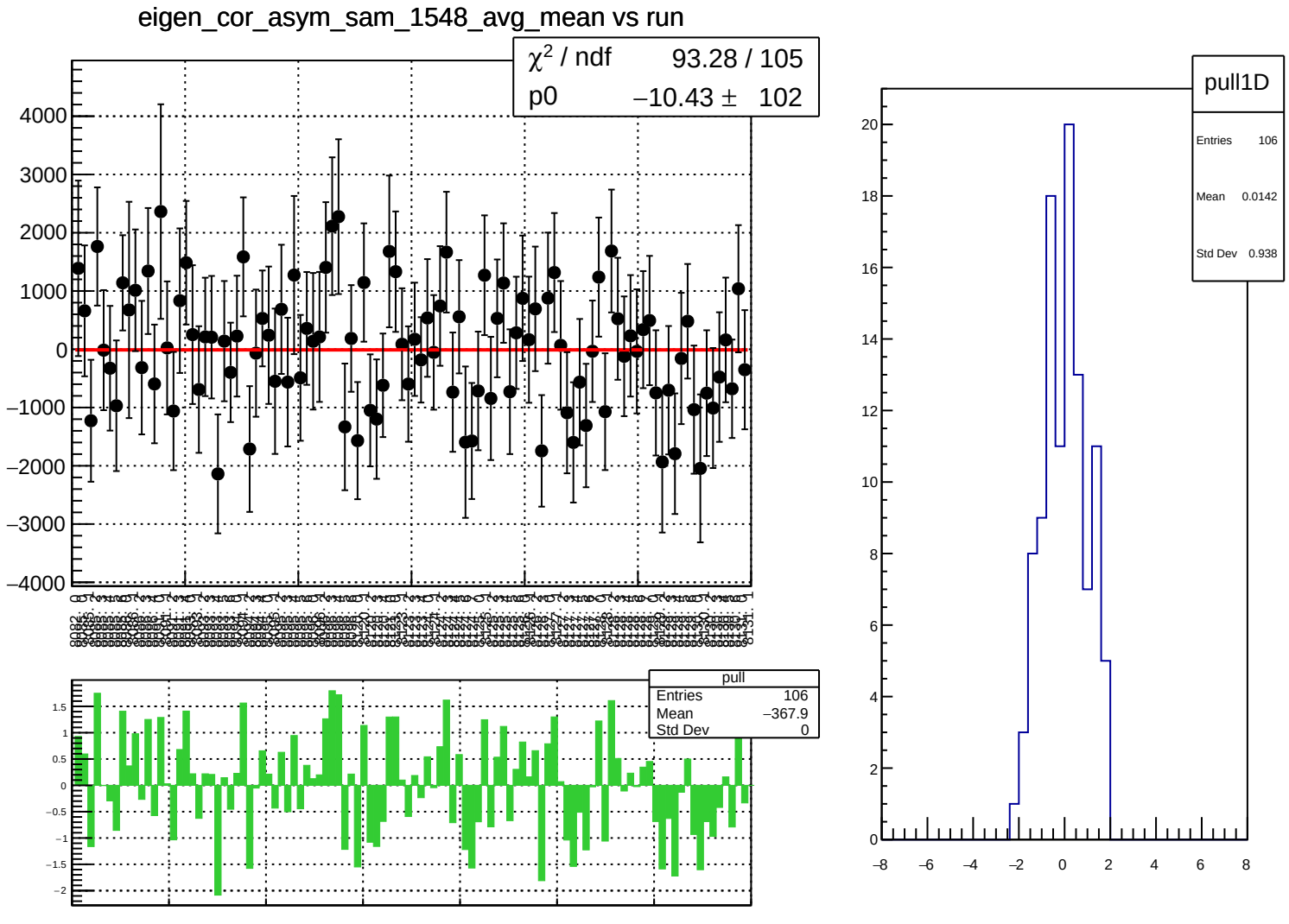

pull1D
Entries 106
Mean 0.0142
Std Dev 0.938

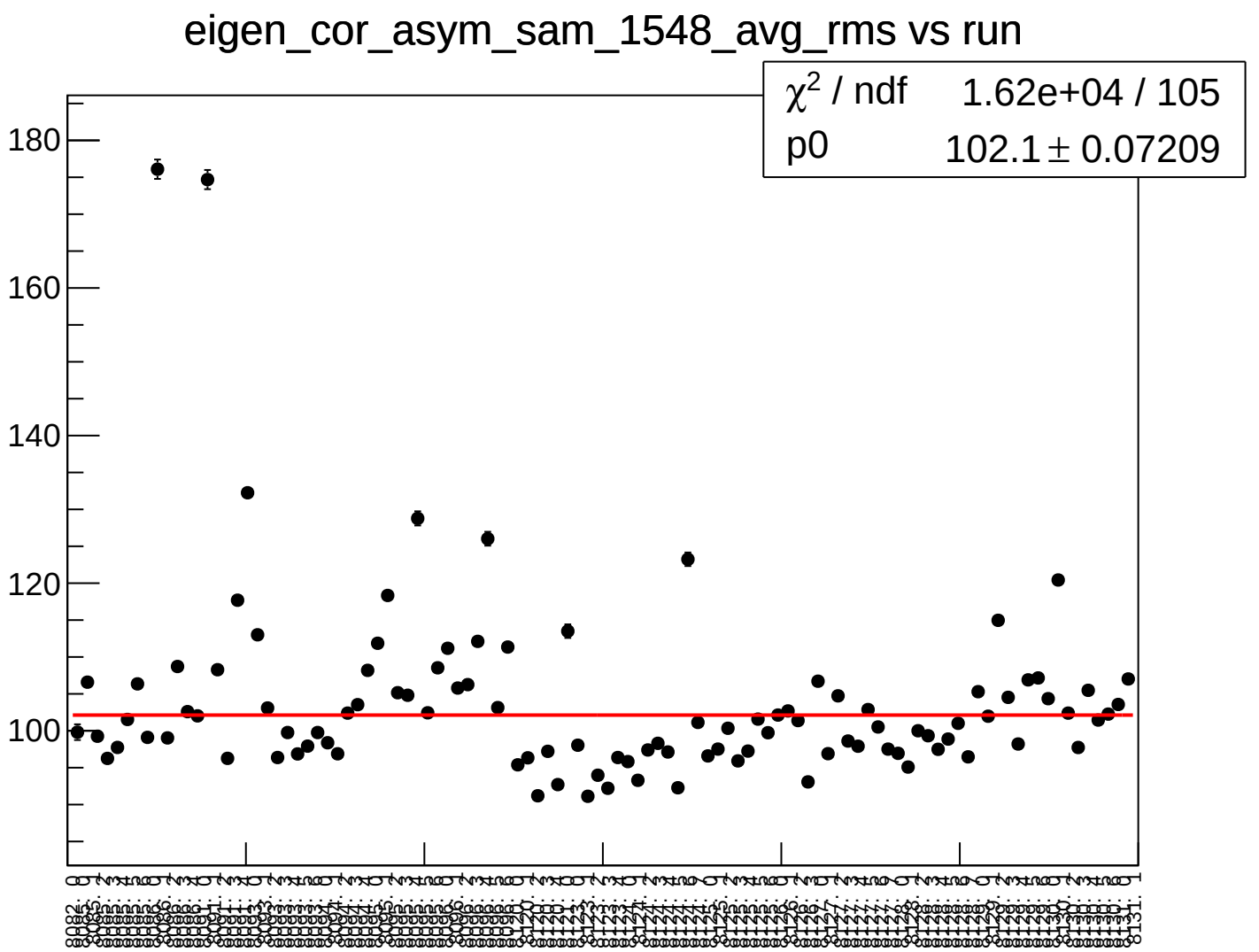

cor_asym_sam_1548_avg_rms vs run
$\chi^2$ / ndf 1.62e+04 / 105
p0 102.1 ± 0.07209
180
160
140
120
100

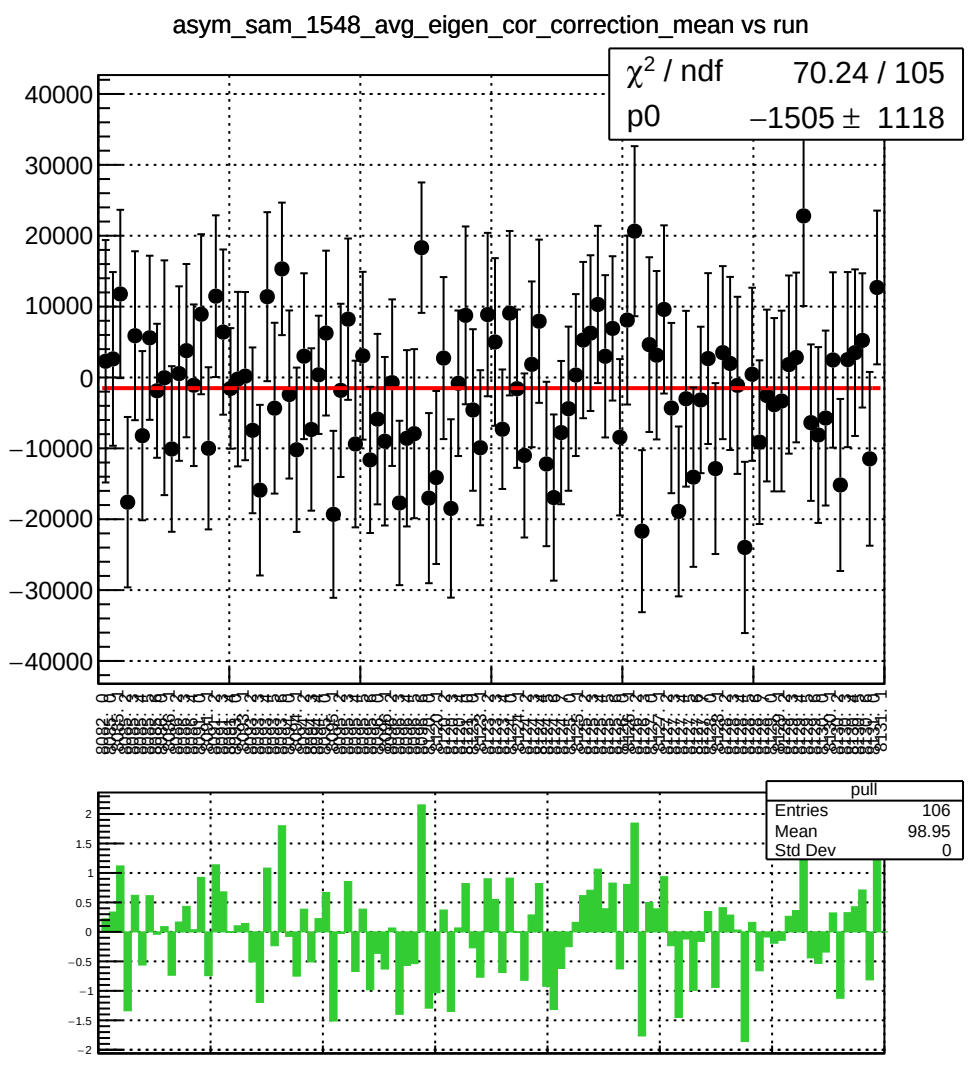

asym_sam_1548_avg_cor_correction_mean vs run
χ² / ndf 70.24 / 105
p0 −1505 ± 1118
pull
Entries 106
Mean 98.95
Std Dev 0

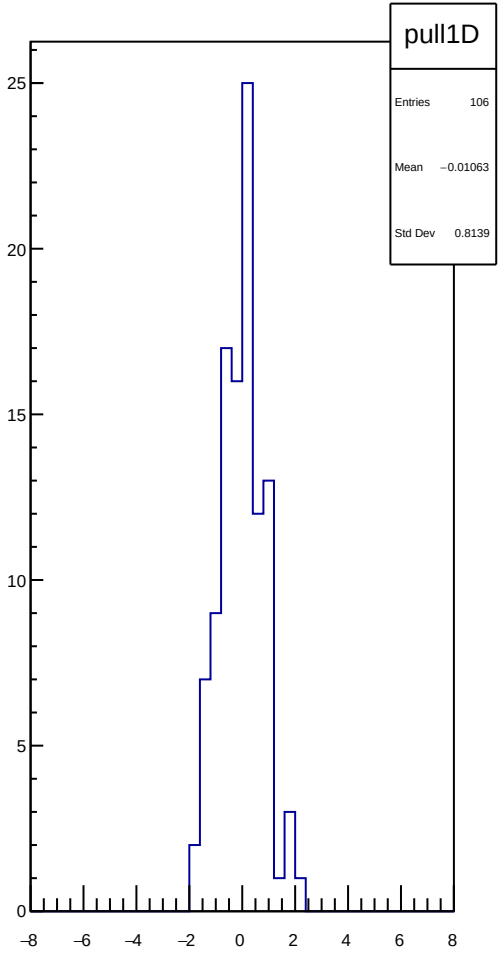

pull1D
Entries 106
Mean −0.01063
Std Dev 0.8139

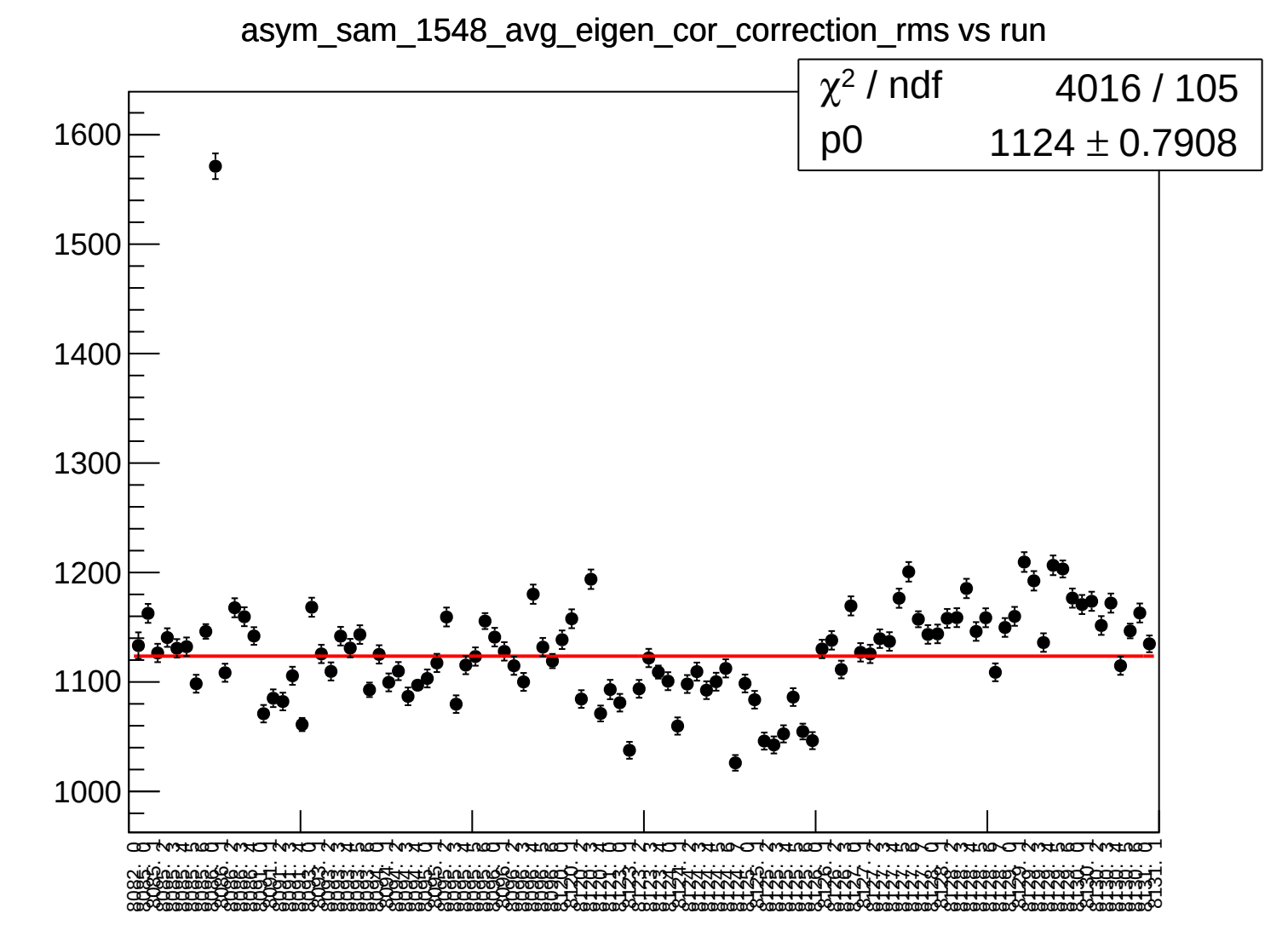

asym_sam_1548_avg_cor_correction_rms vs run
χ² / ndf 4016 / 105
p0 1124 ± 0.7908
1600
1500
1400
1300
1200
1100
1000

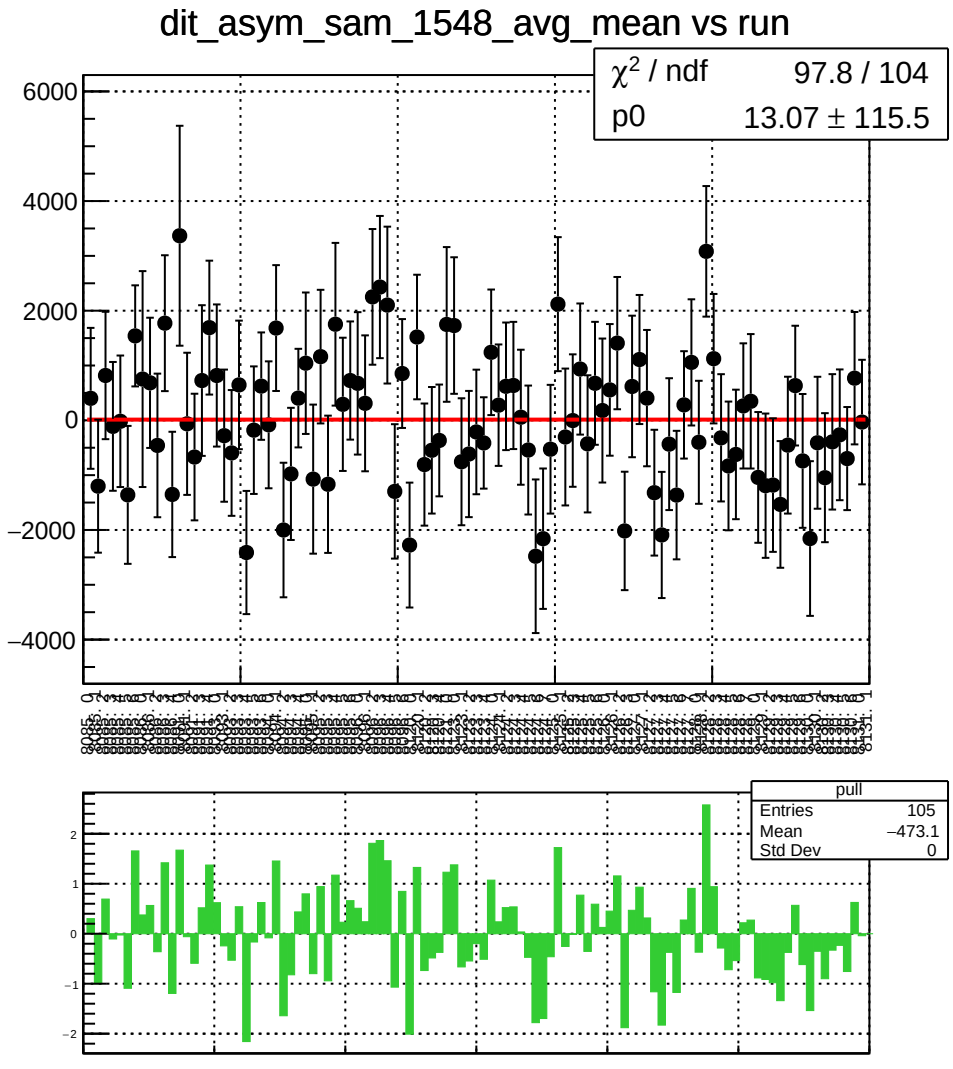

eigen_cor_asym_sam_1548_avg_mean vs run
χ² / ndf 93.28 / 105
p0 −10.43 ± 102
pull
Entries 106
Mean −367.9
Std Dev 0
pull1D
Entries 106
Mean 0.0142
Std Dev 0.938

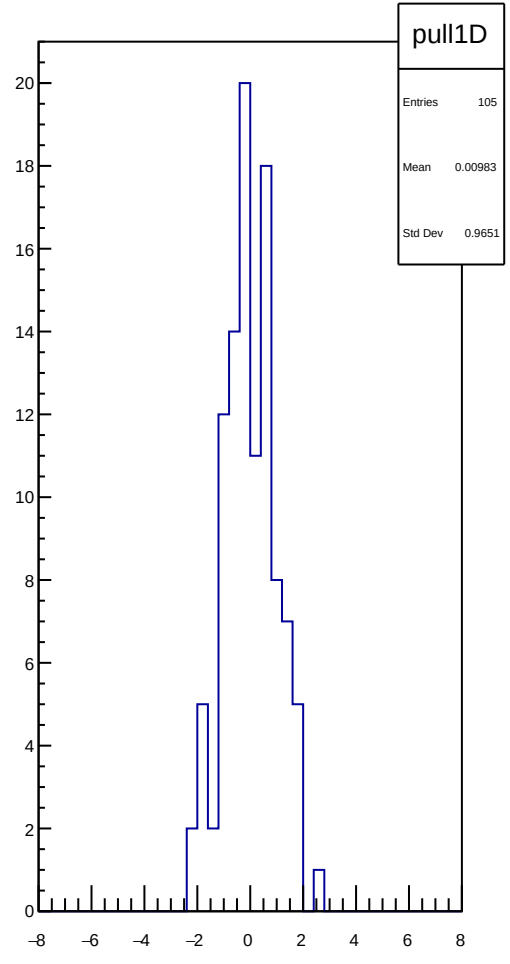

eigen_cor_asym_sam_1548_avg_rms vs run
$\chi^2$ / ndf 1.62e+04 / 105
p0 102.1 ± 0.07209
180
160
140
120
100

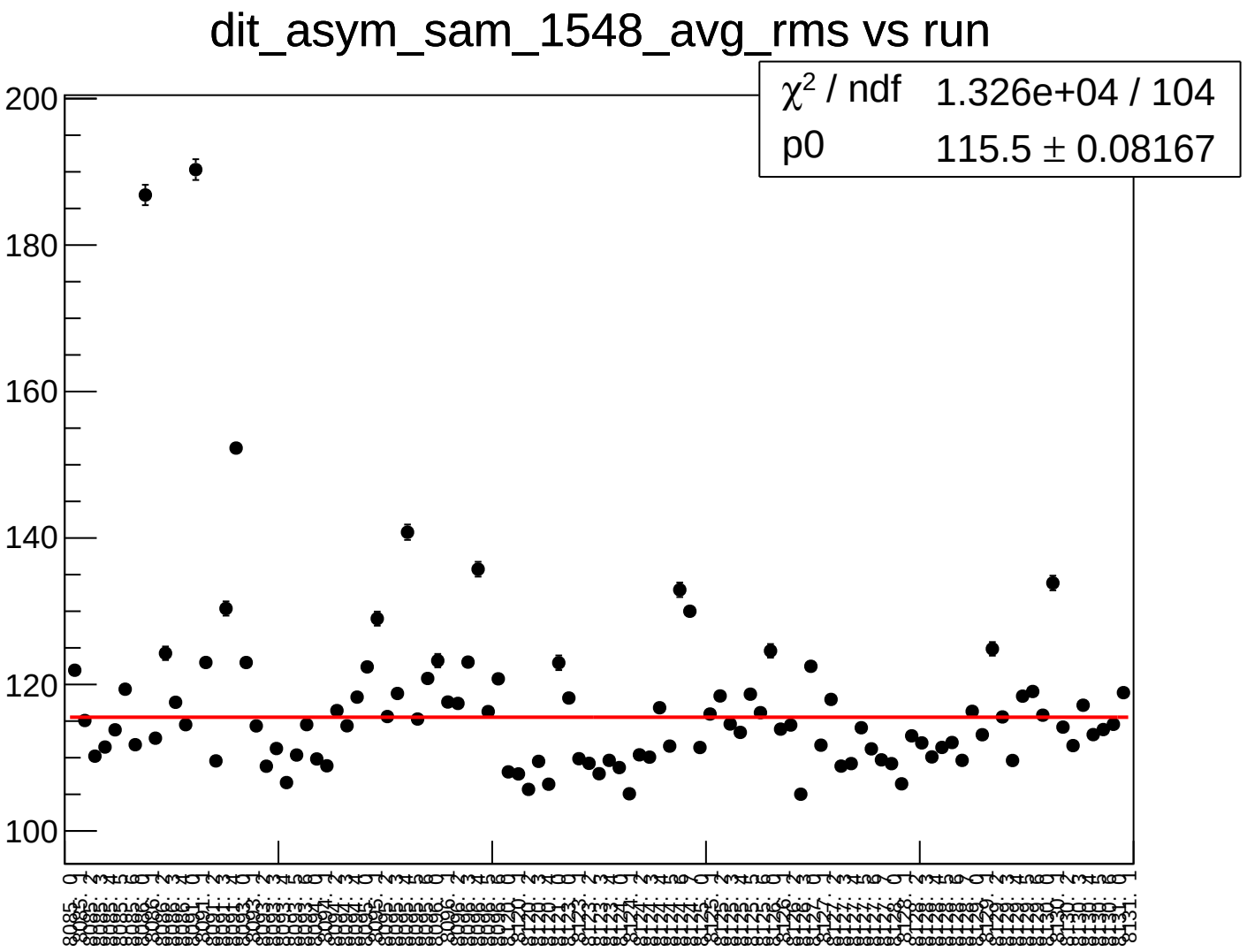

asym_sam_1548_avg_eigen_cor_correction_mean vs run
χ² / ndf 70.24 / 105
p0 −1505 ± 1118
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 106
Mean 98.95
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

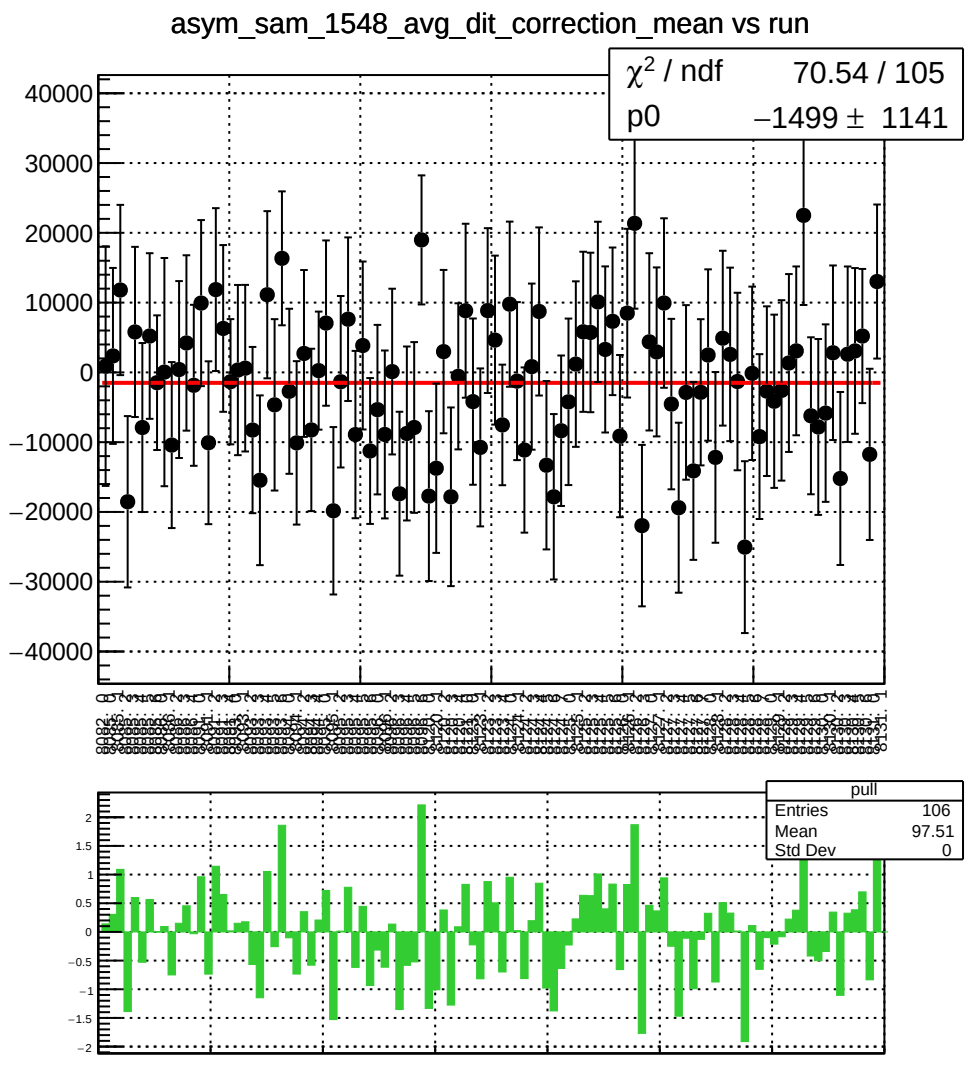

pull1D
Entries 106
Mean −0.01063
Std Dev 0.8139
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

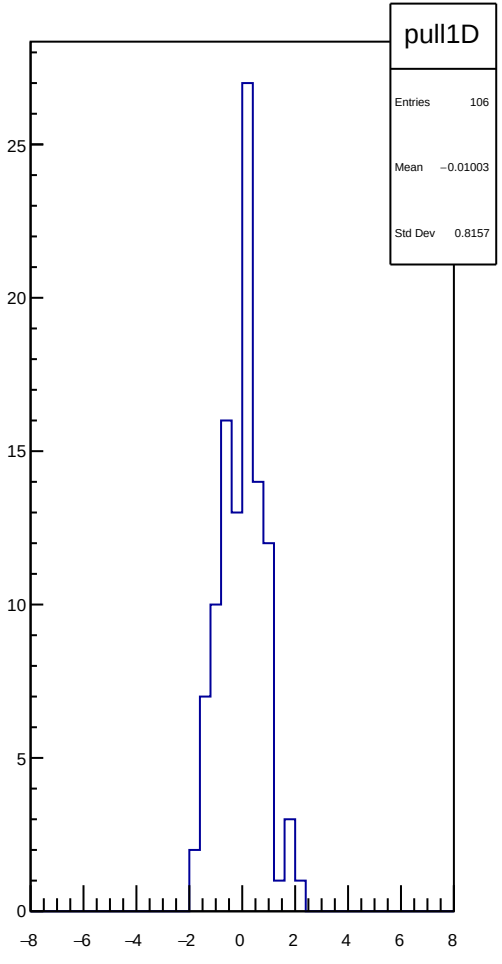

asym_sam_1548_avg_eigen_cor_correction_rms vs run
χ² / ndf 4016 / 105
p0 1124 ± 0.7908
1600
1500
1400
1300
1200
1100
1000

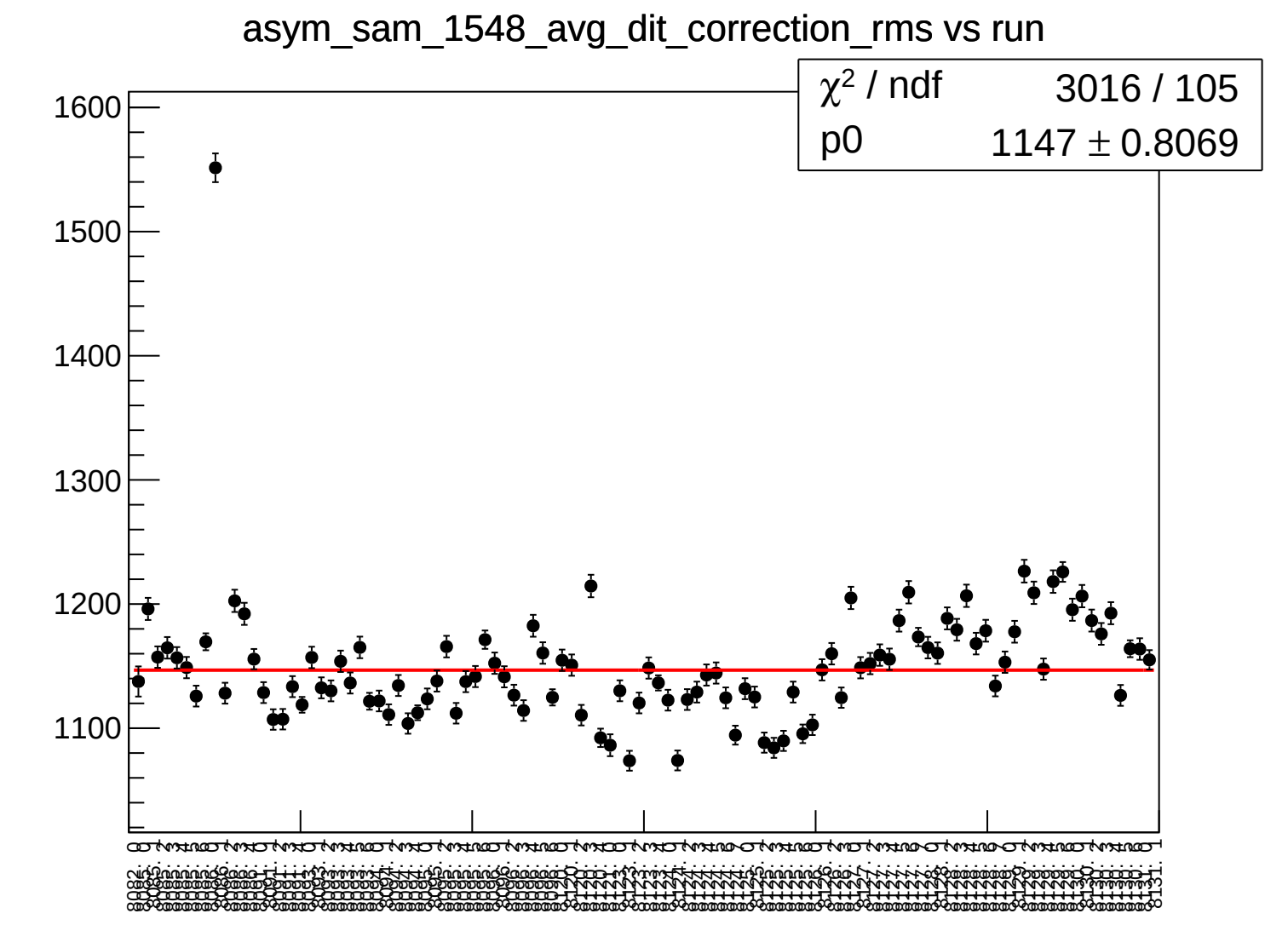

dit_asym_sam_1548_avg_mean vs run
$\chi^2$ / ndf 97.8 / 104
p0 13.07 ± 115.5
6000
4000
2000
0
−2000
−4000
pull
Entries 105
Mean −473.1
Std Dev 0
2
1
0
−1
−2

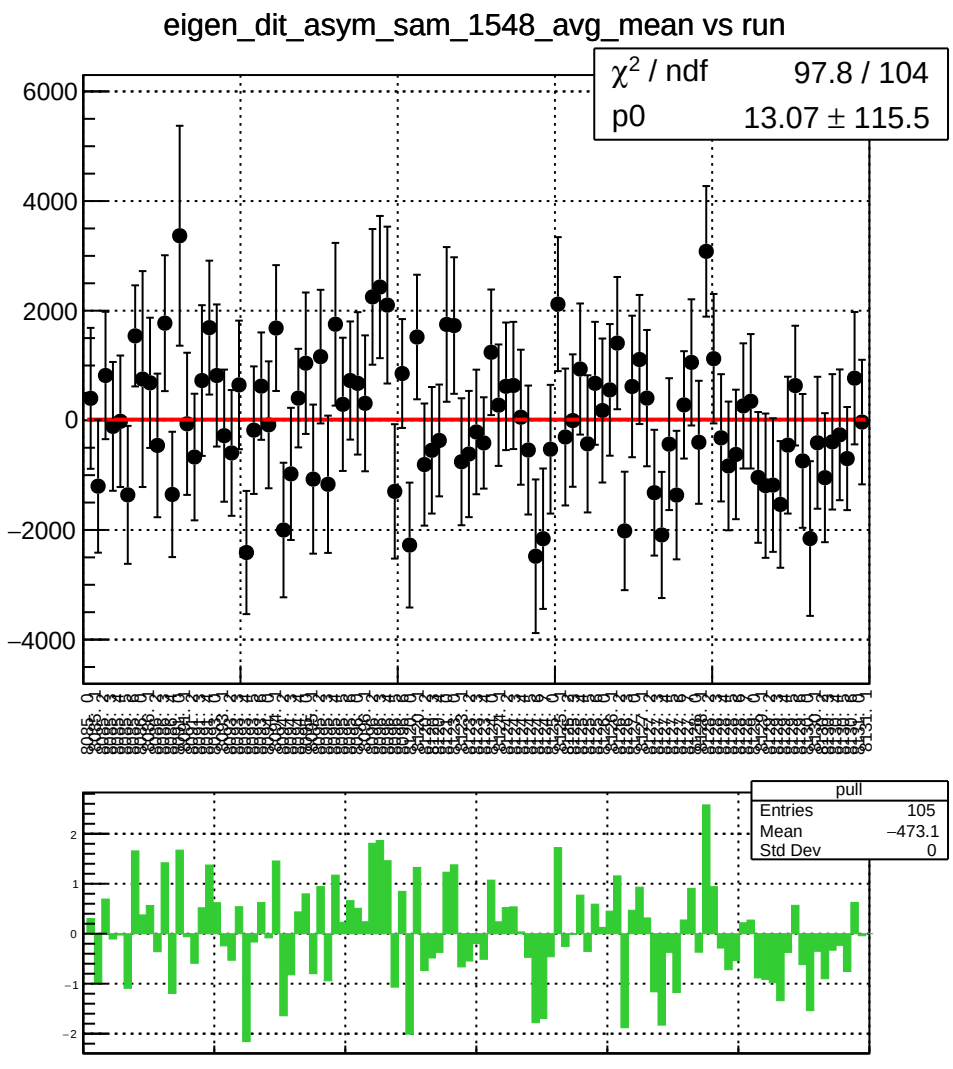

pull1D
Entries 105
Mean 0.00983
Std Dev 0.9651
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

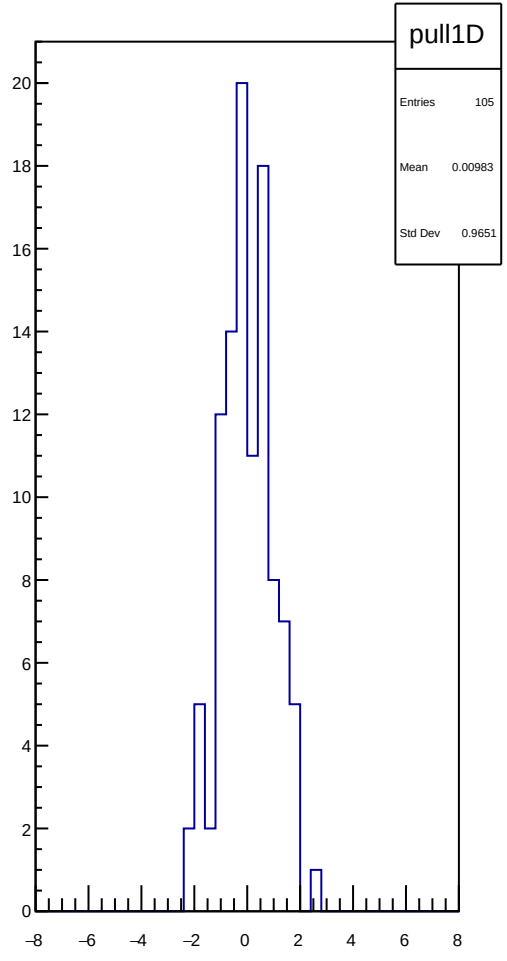

dit_asym_sam_1548_avg_rms vs run
χ² / ndf 1.326e+04 / 104
p0 115.5 ± 0.08167
200
180
160
140
120
100

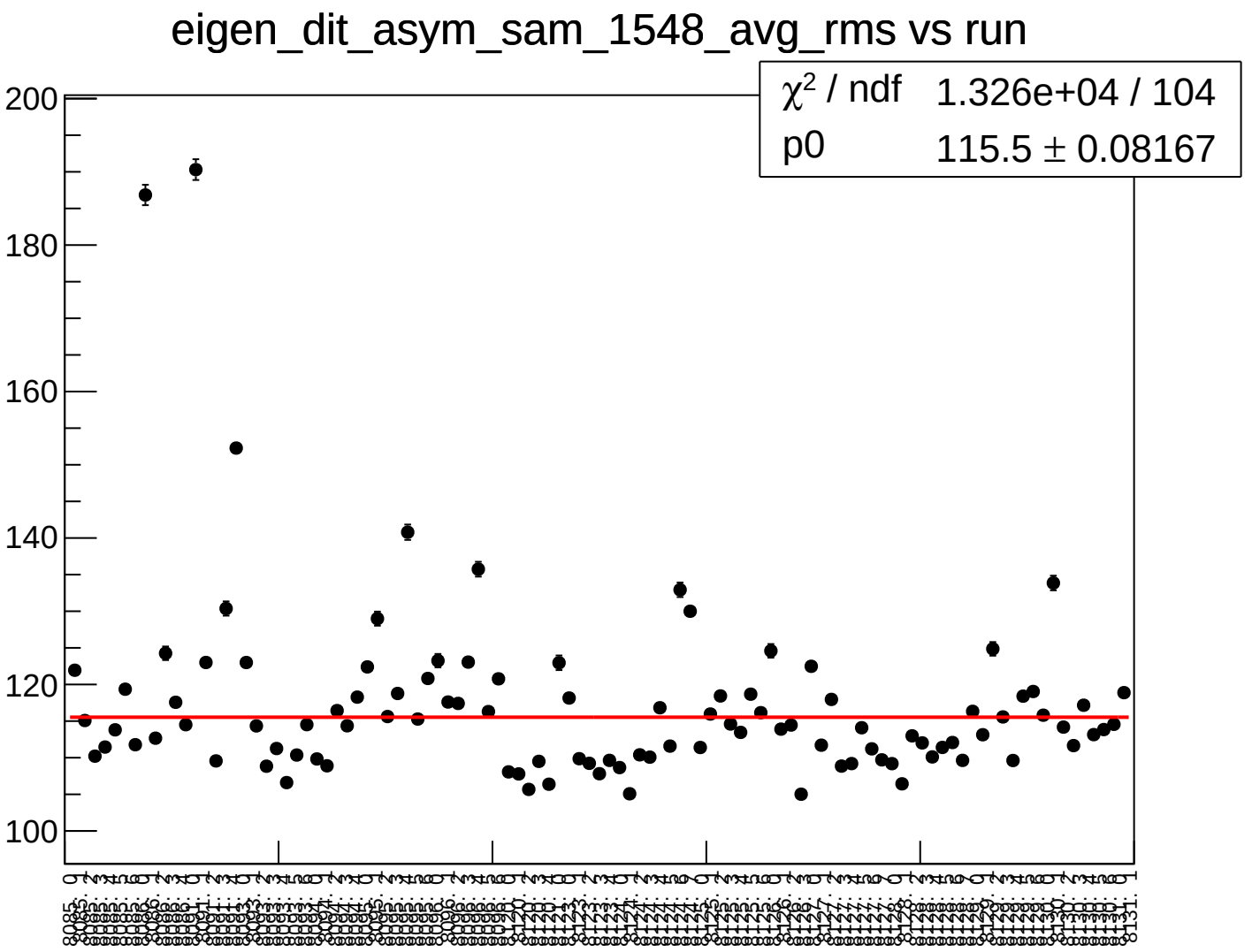

asym_sam_1548_avg_dit_correction_mean vs run
χ² / ndf 70.54 / 105
p0 −1499 ± 1141
pull
Entries 106
Mean 97.51
Std Dev 0

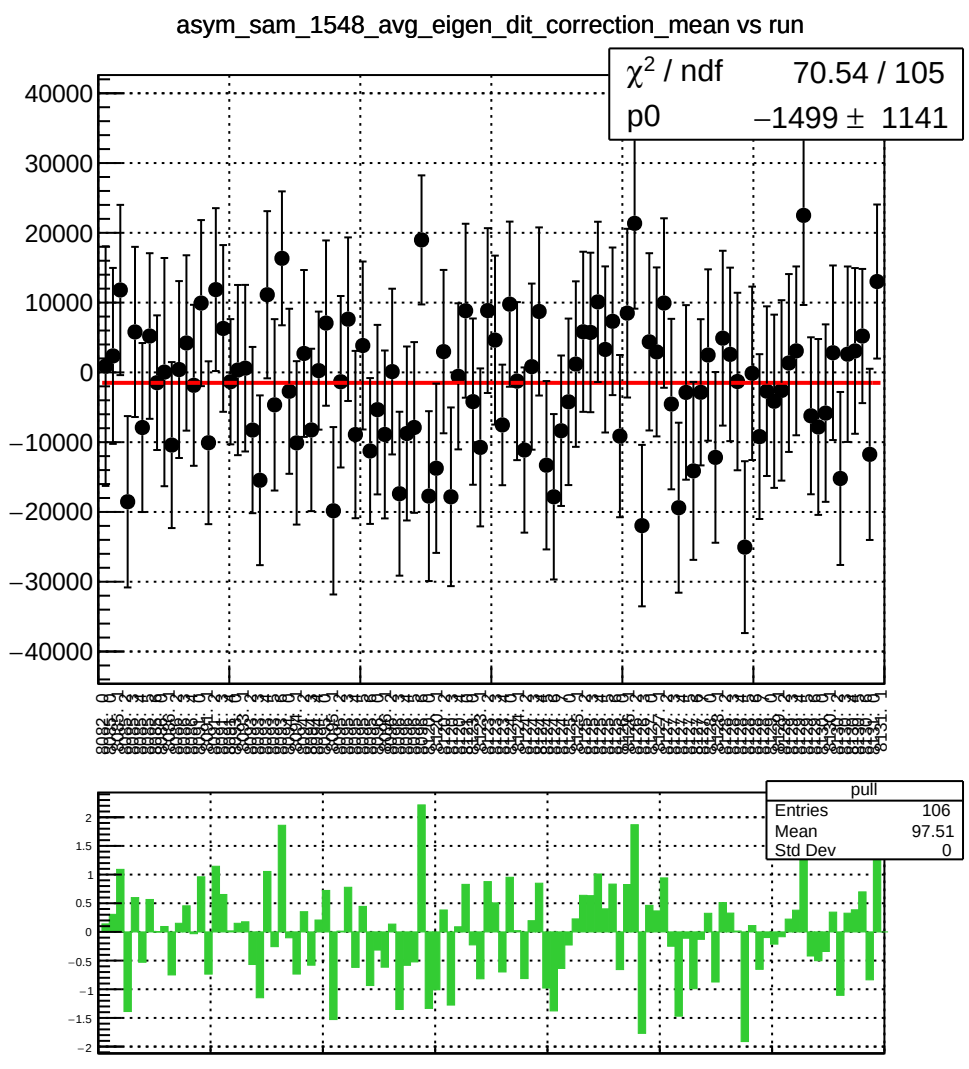

pull1D
Entries 106
Mean −0.01003
Std Dev 0.8157

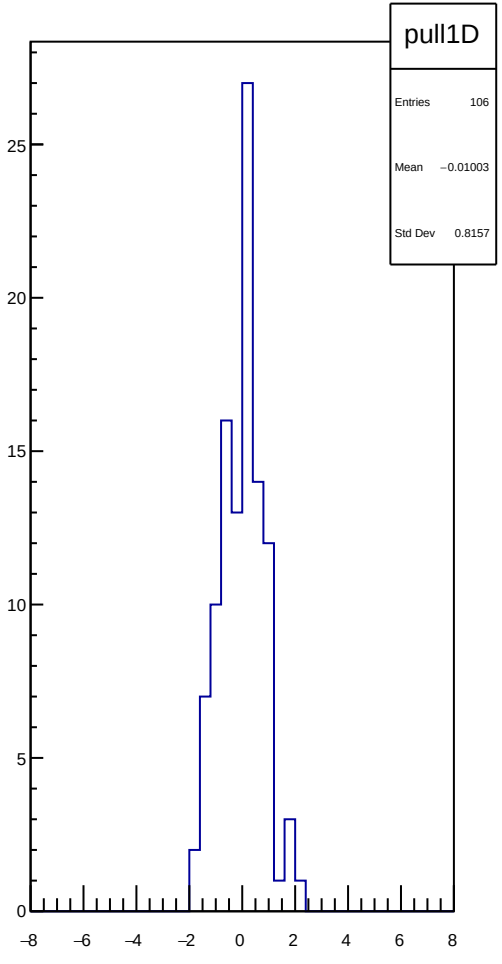

asym_sam_1548_avg_dit_correction_rms vs run
χ² / ndf 3016 / 105
p0 1147 ± 0.8069
1600
1500
1400
1300
1200
1100

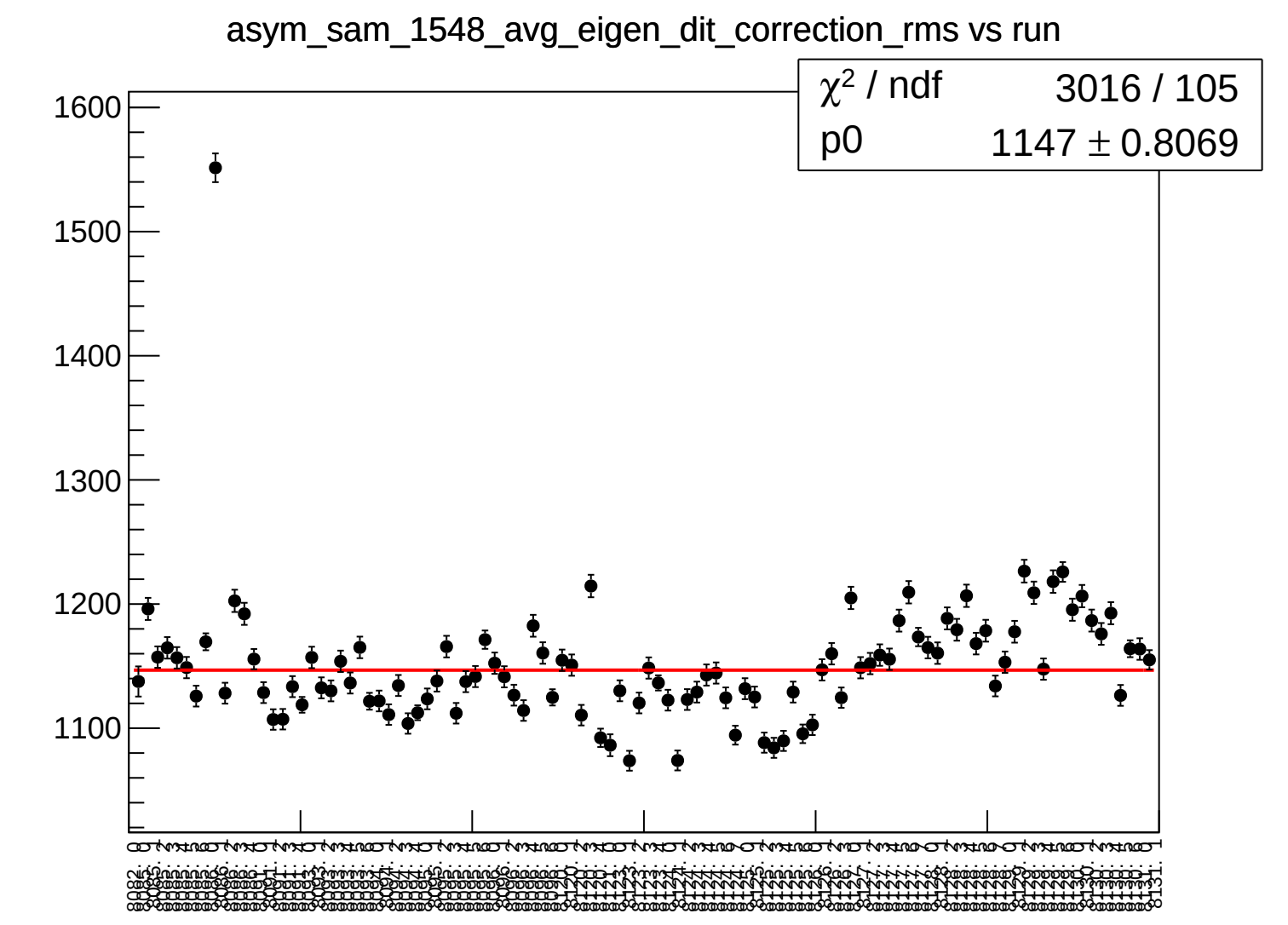

eigen_dit_asym_sam_1548_avg_mean vs run
χ² / ndf 97.8 / 104
p0 13.07 ± 115.5
6000
4000
2000
0
−2000
−4000
pull
Entries 105
Mean −473.1
Std Dev 0
2
1
0
−1
−2

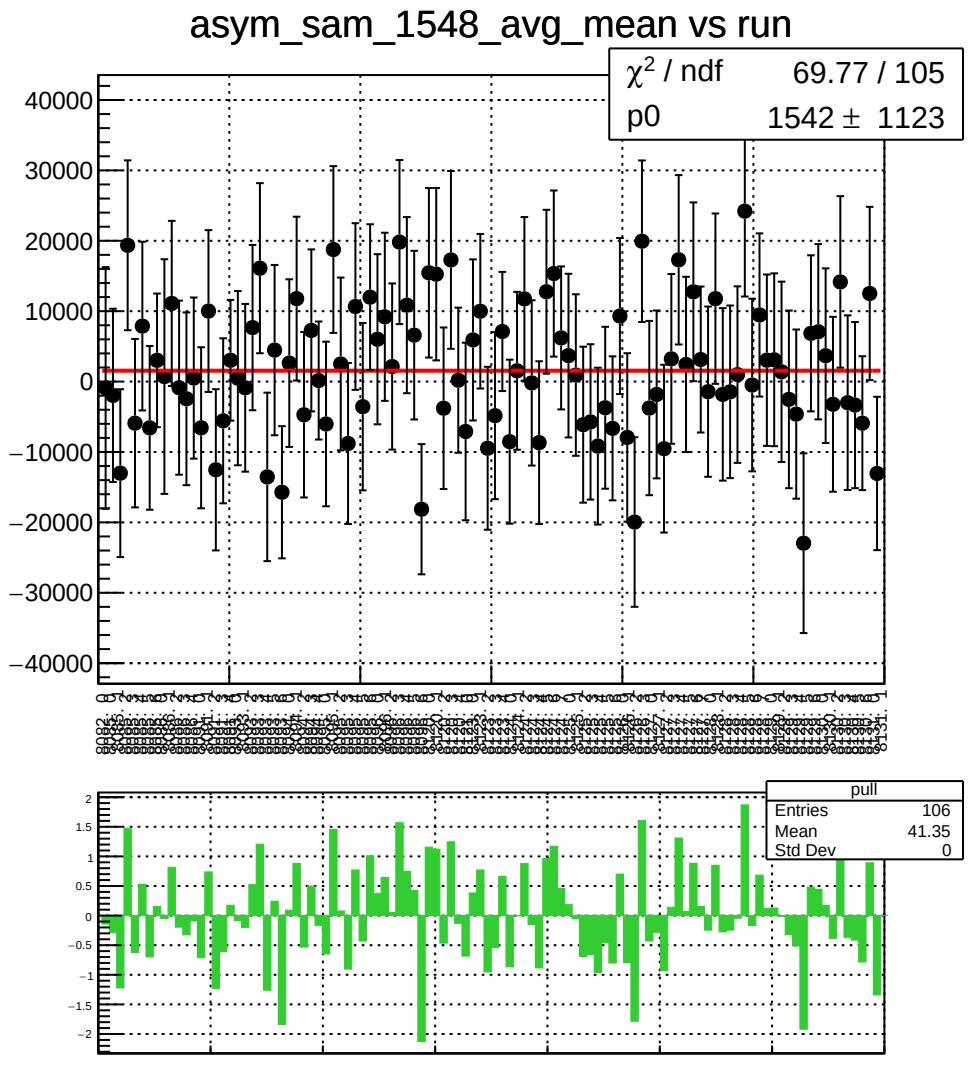

pull1D
Entries 105
Mean 0.00983
Std Dev 0.9651
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

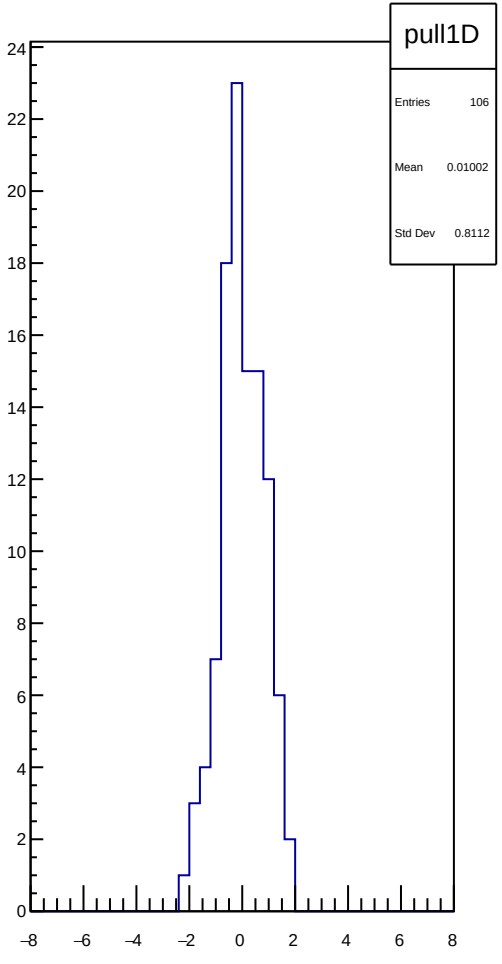

eigen_dit_asym_sam_1548_avg_rms vs run
χ² / ndf 1.326e+04 / 104
p0 115.5 ± 0.08167
200
180
160
140
120
100

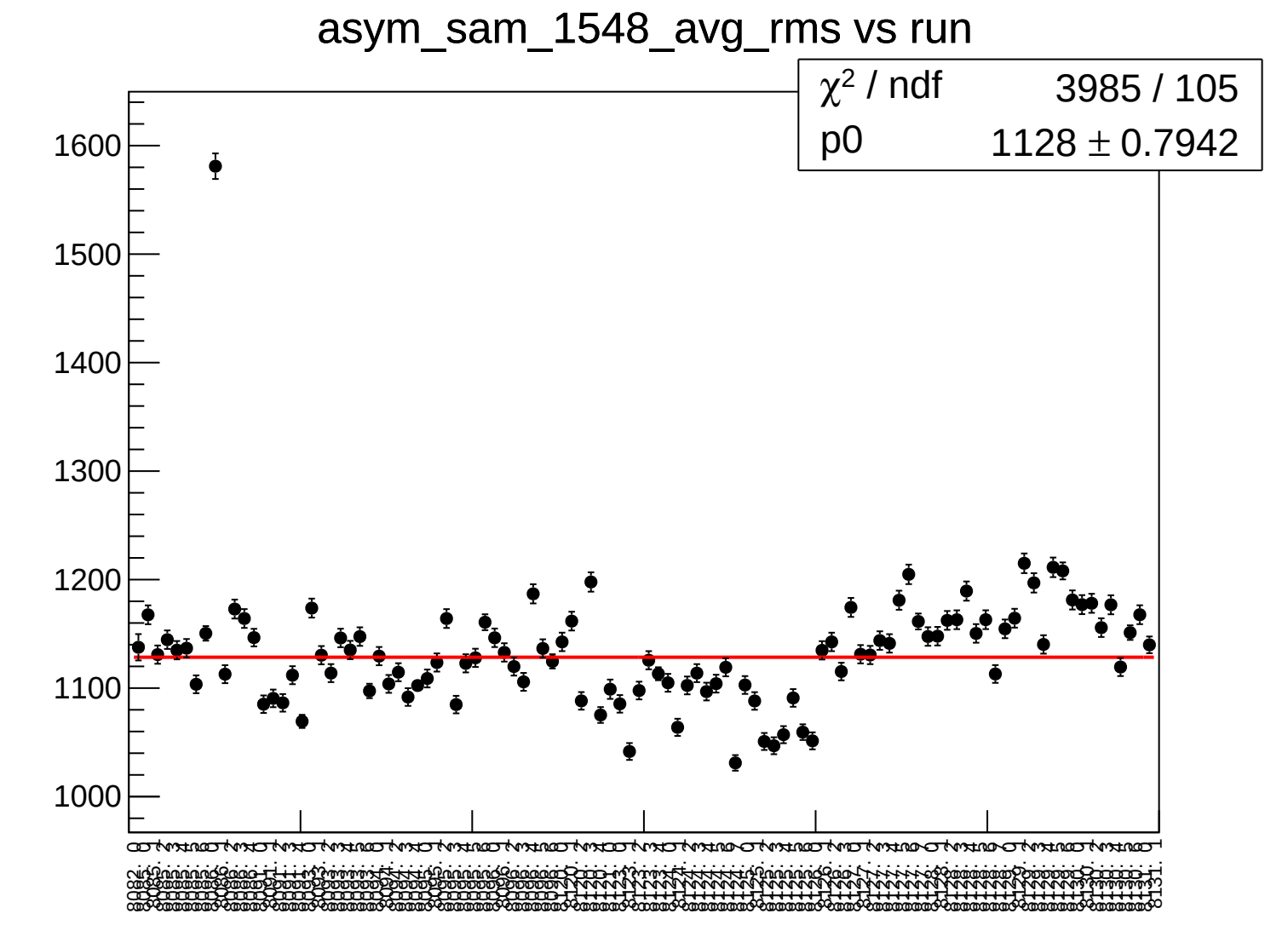

asym_sam_1548_avg_eigen_dit_correction_mean vs run
χ² / ndf 70.54 / 105
p0 −1499 ± 1141
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 106
Mean 97.51
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

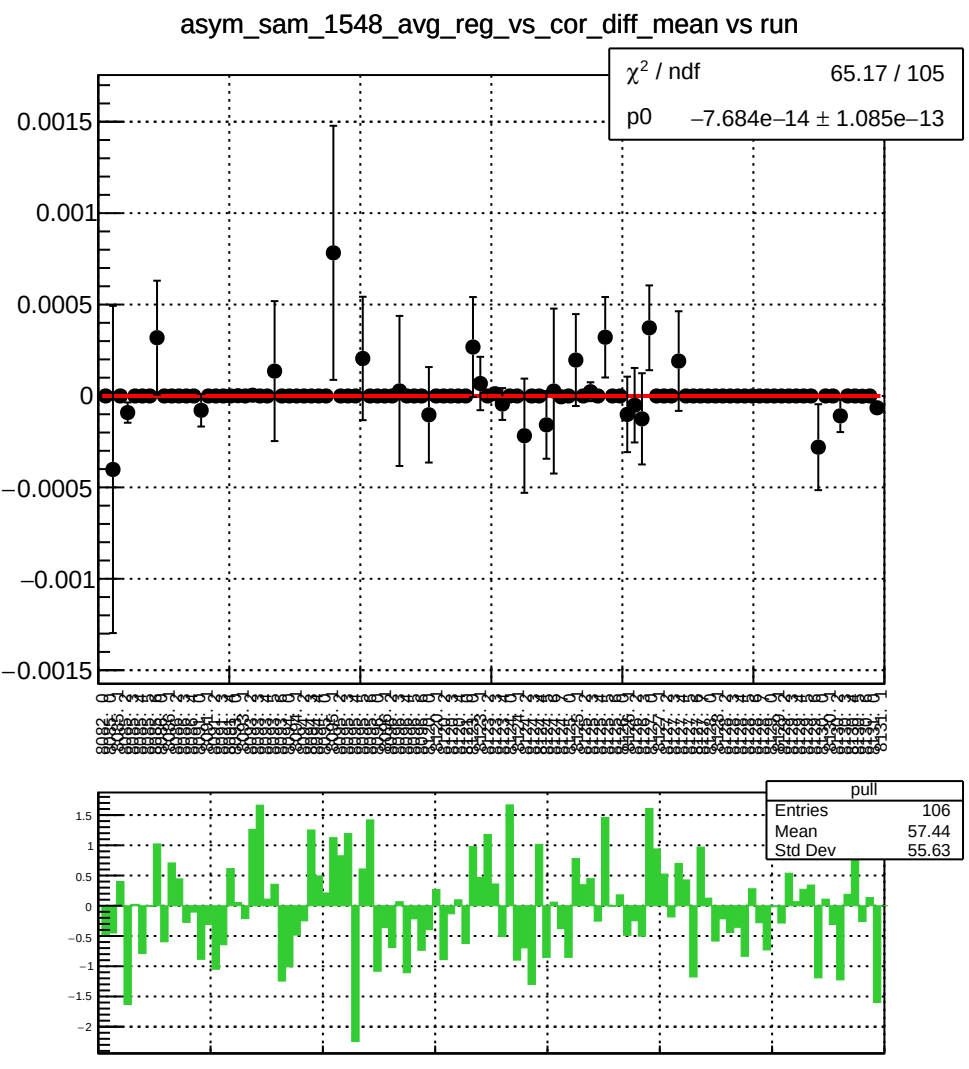

pull1D
Entries 106
Mean −0.01003
Std Dev 0.8157
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

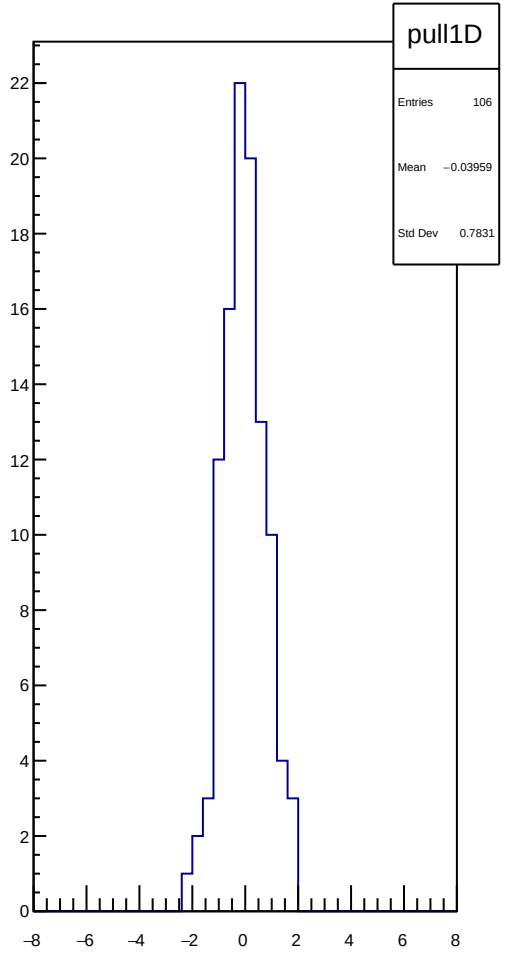

asym_sam_1548_avg_eigen_dit_correction_rms vs run
χ² / ndf 3016 / 105
p0 1147 ± 0.8069
1600
1500
1400
1300
1200
1100

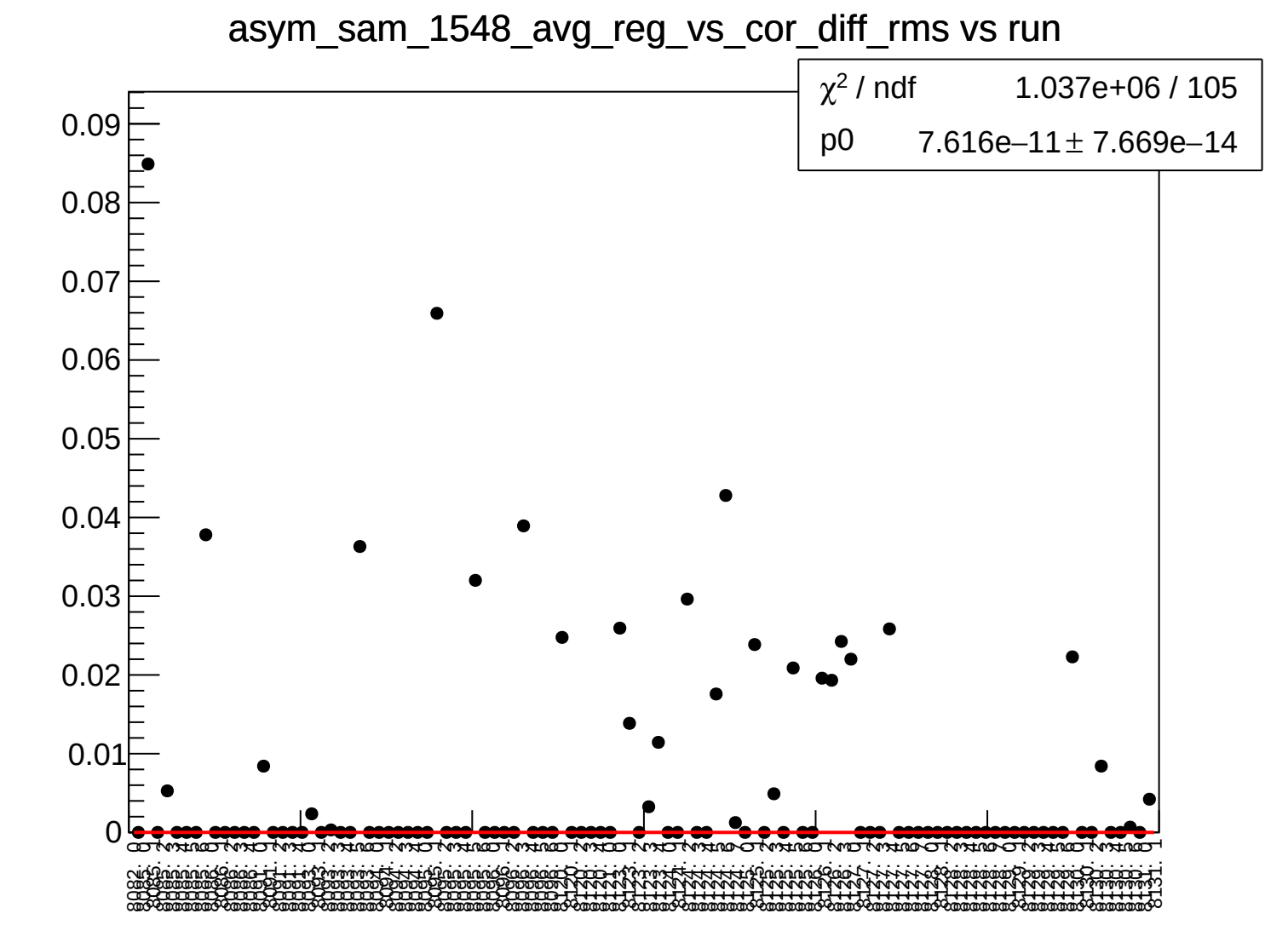

asym_sam_1548_avg_mean vs run
χ² / ndf 69.77 / 105
p0 1542 ± 1123
pull
Entries 106
Mean 41.35
Std Dev 0

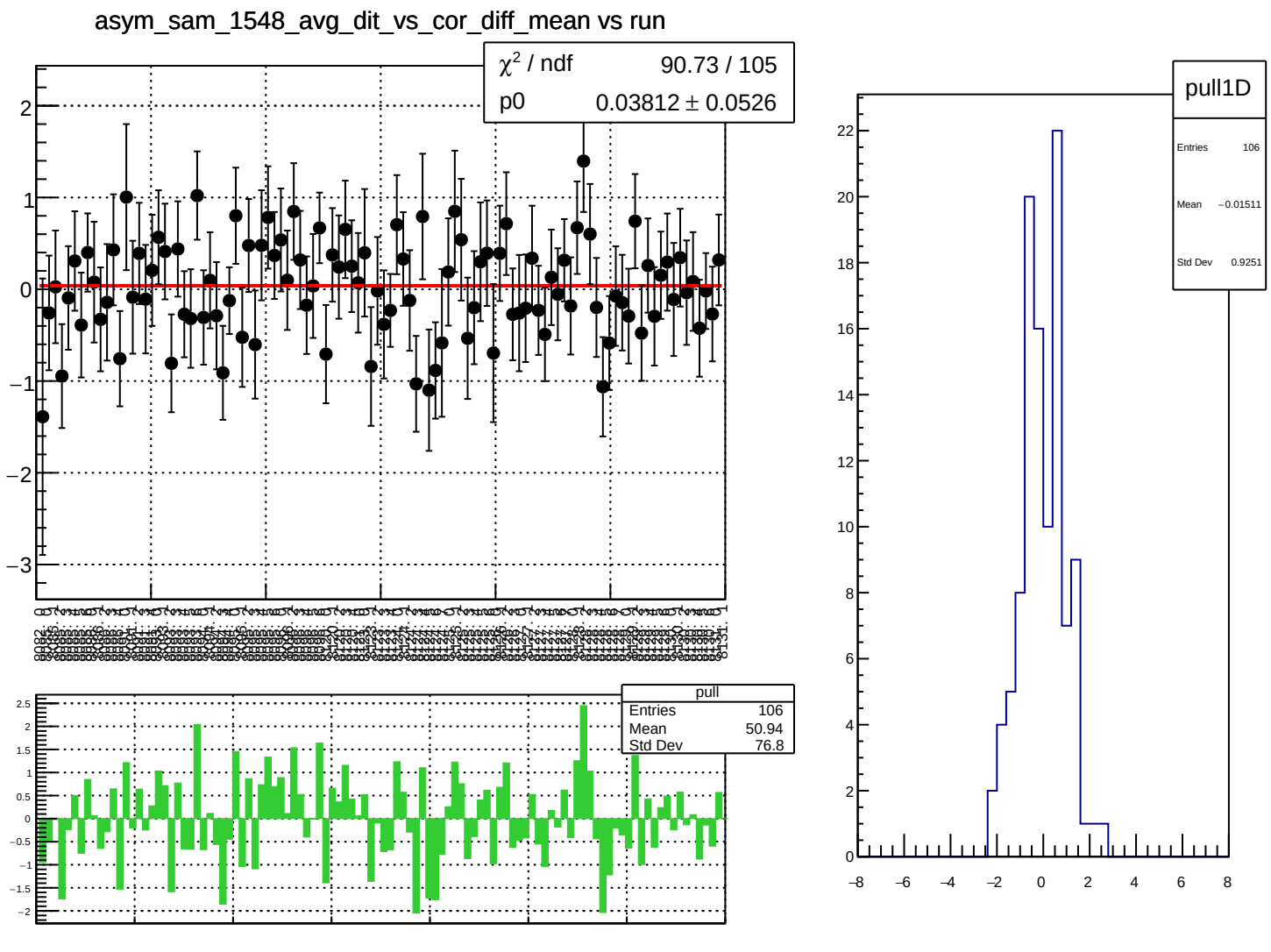

pull1D
Entries 106
Mean 0.01002
Std Dev 0.8112

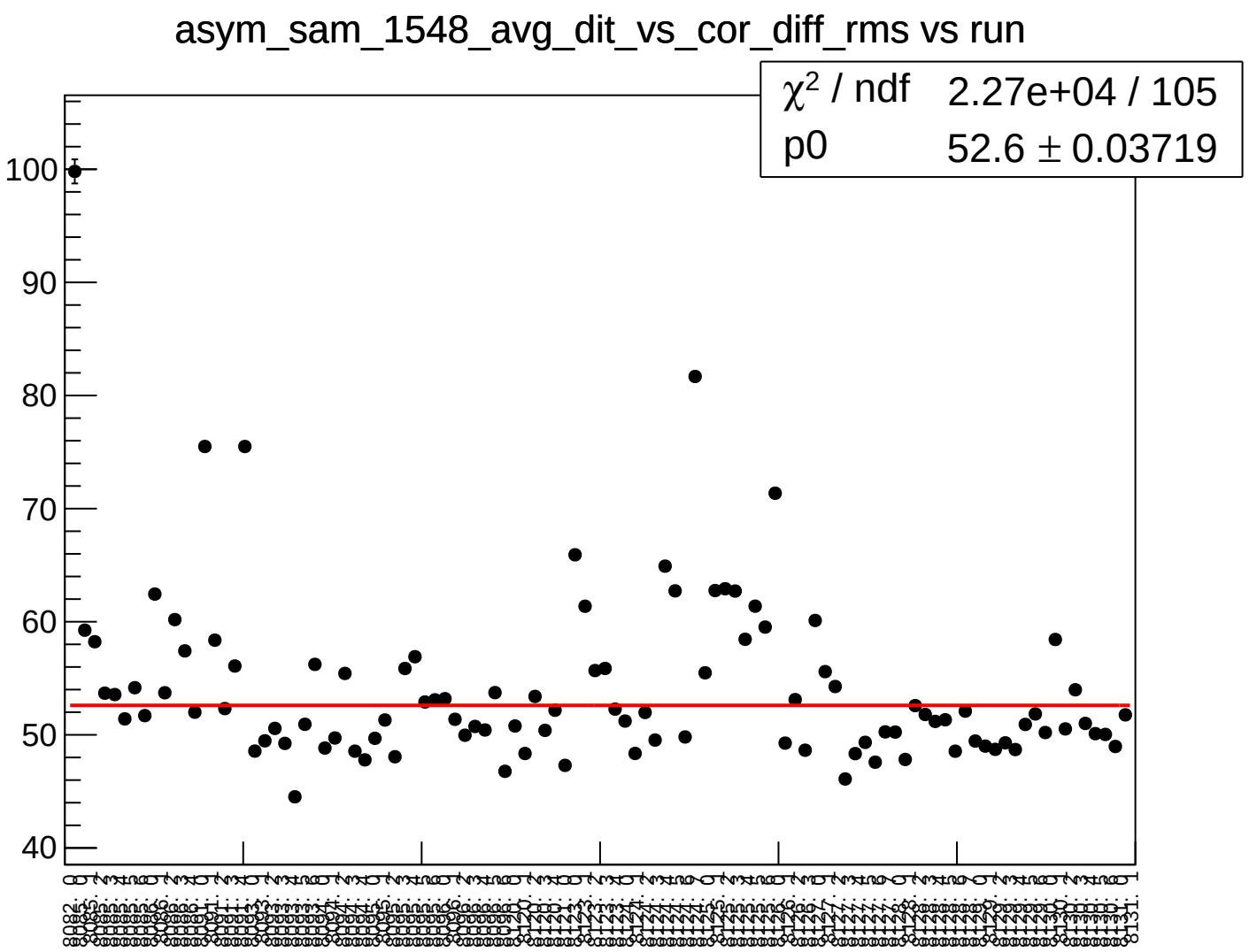

asym_sam_1548_avg_rms vs run
χ² / ndf 3985 / 105
p0 1128 ± 0.7942
1600
1500
1400
1300
1200
1100
1000

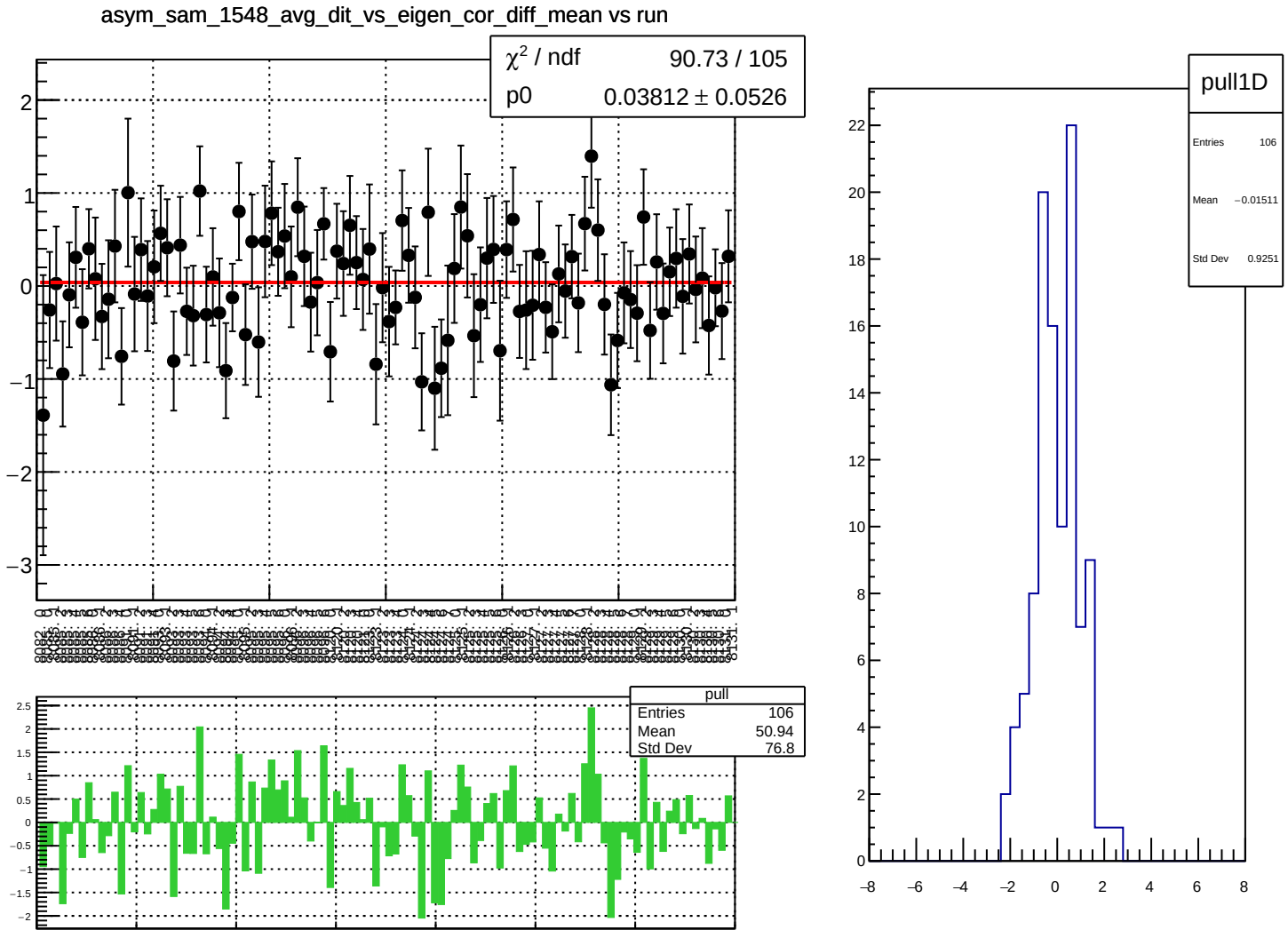

asym_sam_1548_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 65.17 / 105
p0 −7.684e−14 ± 1.085e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 106
Mean 57.44
Std Dev 55.63
1.5
1
0.5
0
−0.5
−1
−1.5
−2

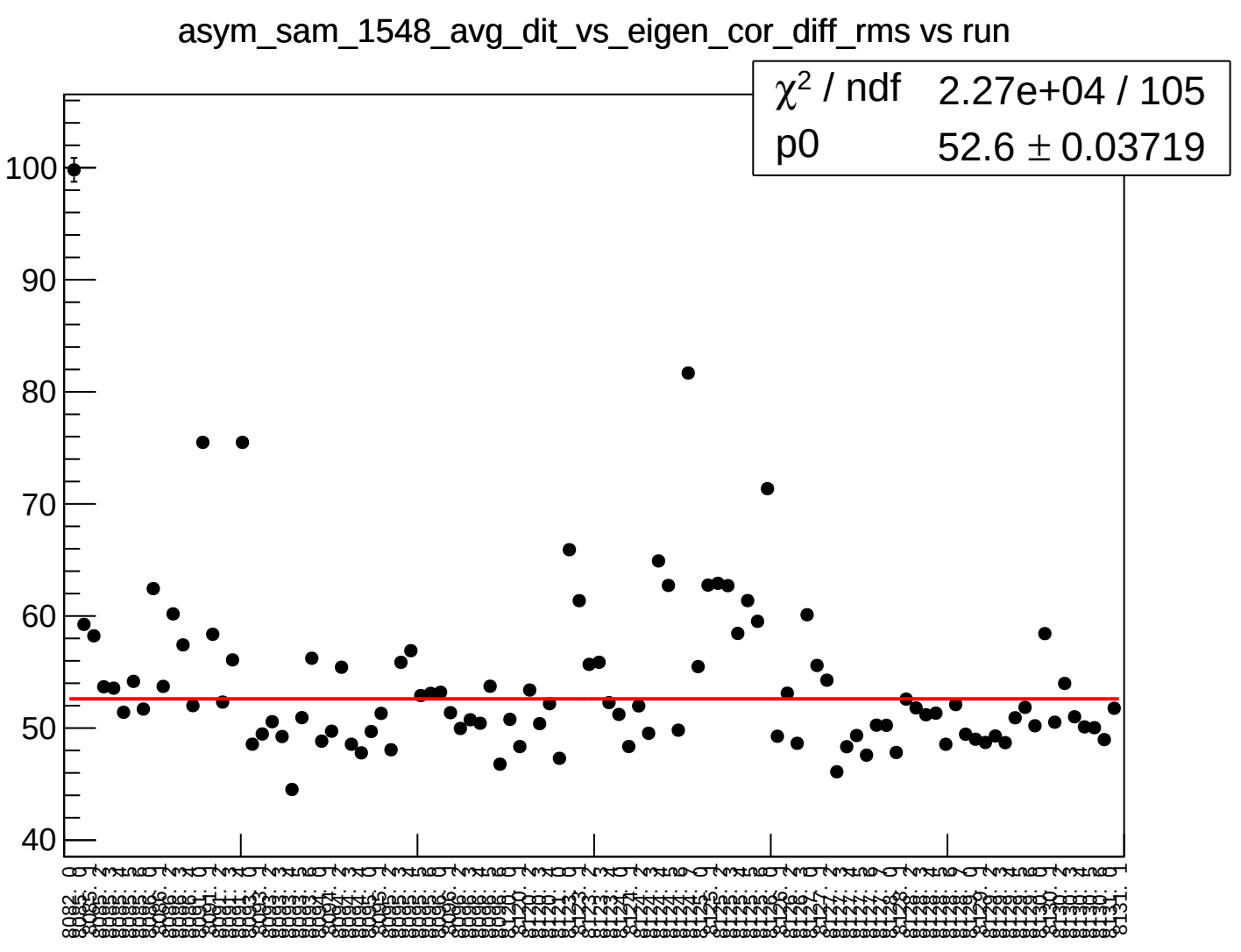

pull1D
Entries 106
Mean −0.03959
Std Dev 0.7831
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

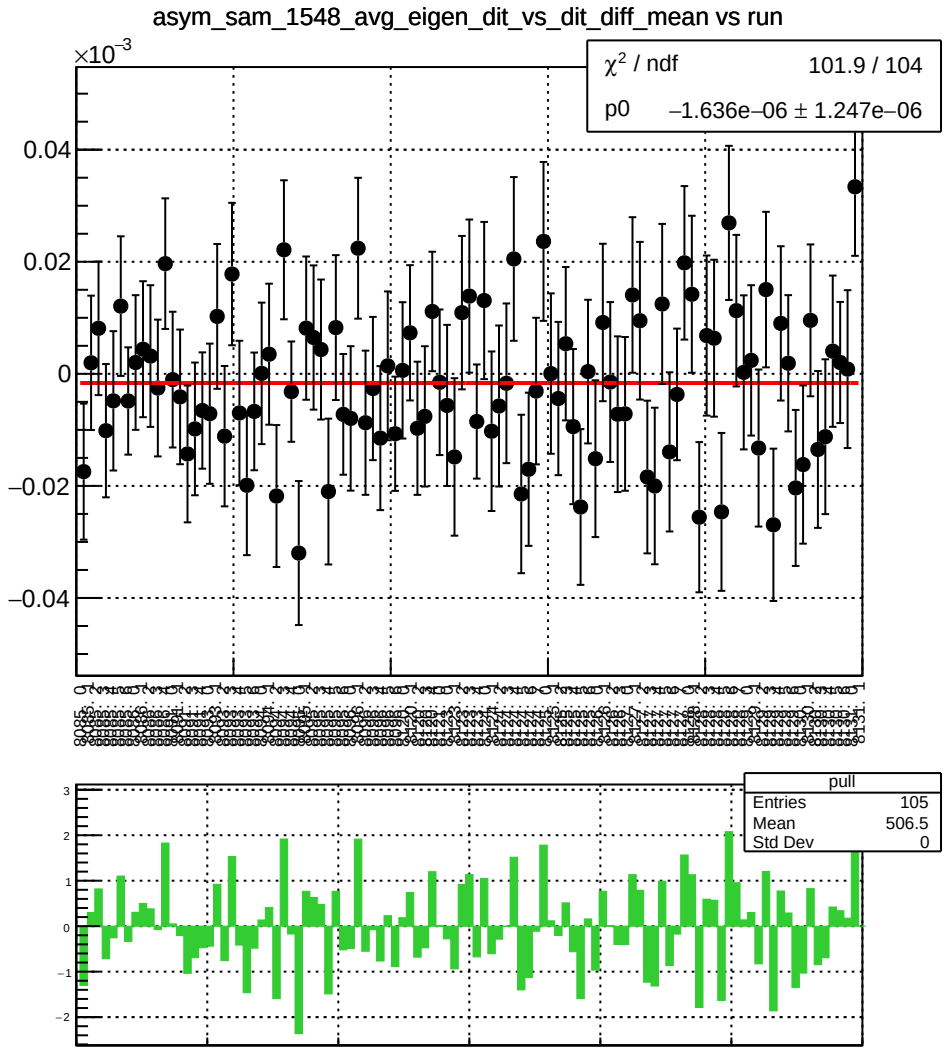

asym_sam_1548_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.037e+06 / 105
p0 7.616e−11 ± 7.669e−14
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

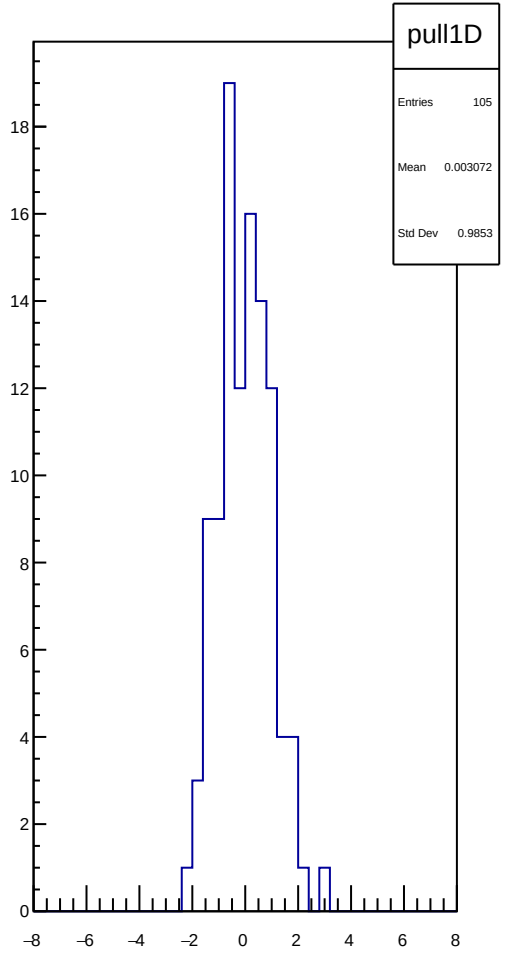

asym_sam_1548_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 90.73 / 105
p0 0.03812 ± 0.0526
pull
Entries 106
Mean 50.94
Std Dev 76.8
pull1D
Entries 106
Mean −0.01511
Std Dev 0.9251

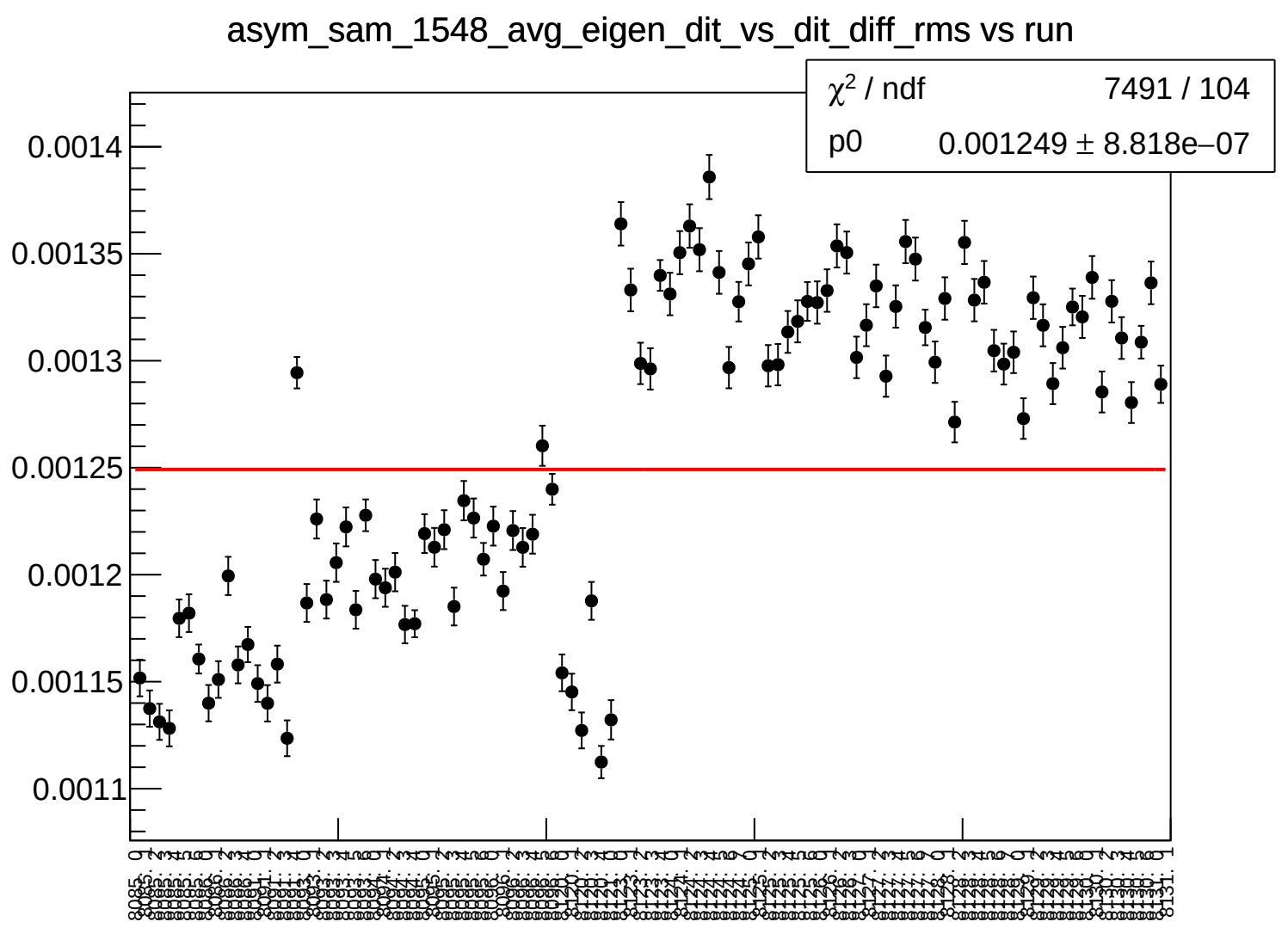

asym_sam_1548_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.27e+04 / 105
p0 52.6 ± 0.03719
100
90
80
70
60
50
40

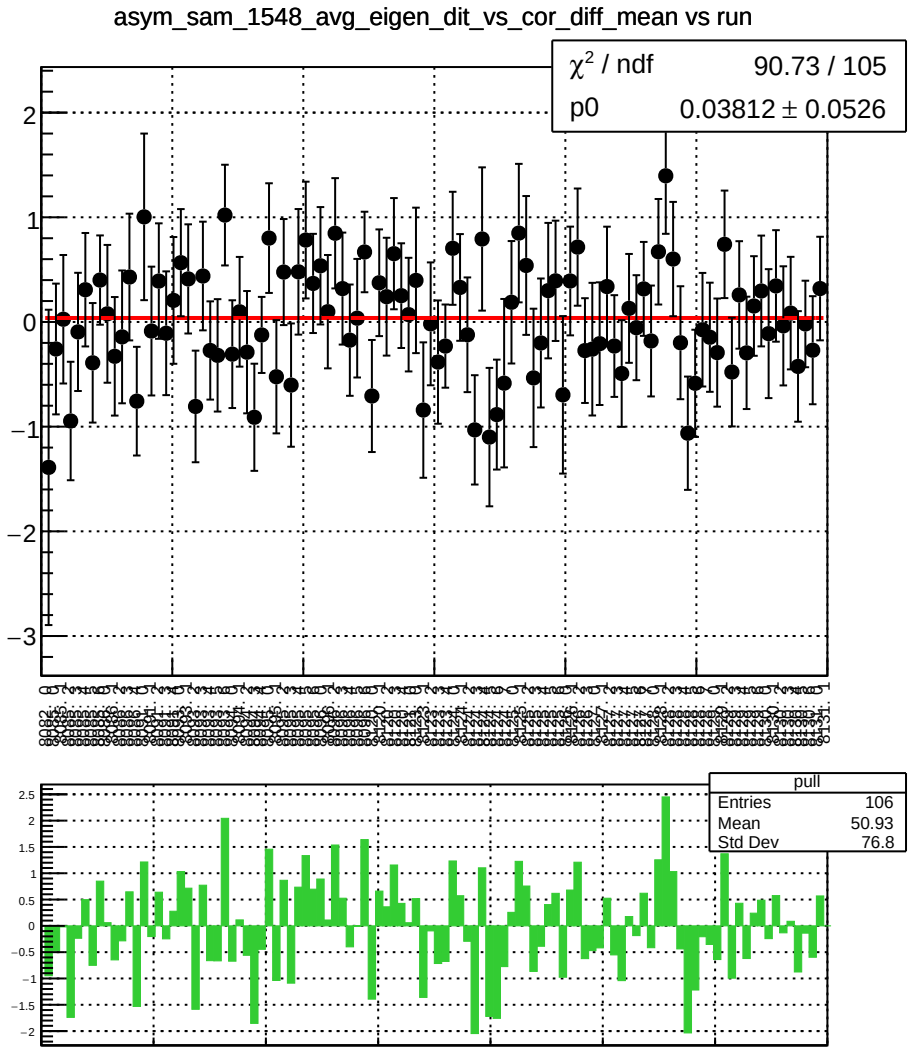

asym_sam_1548_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.73 / 105
p0 0.03812 ± 0.0526
pull
Entries 106
Mean 50.94
Std Dev 76.8
pull1D
Entries 106
Mean −0.01511
Std Dev 0.9251

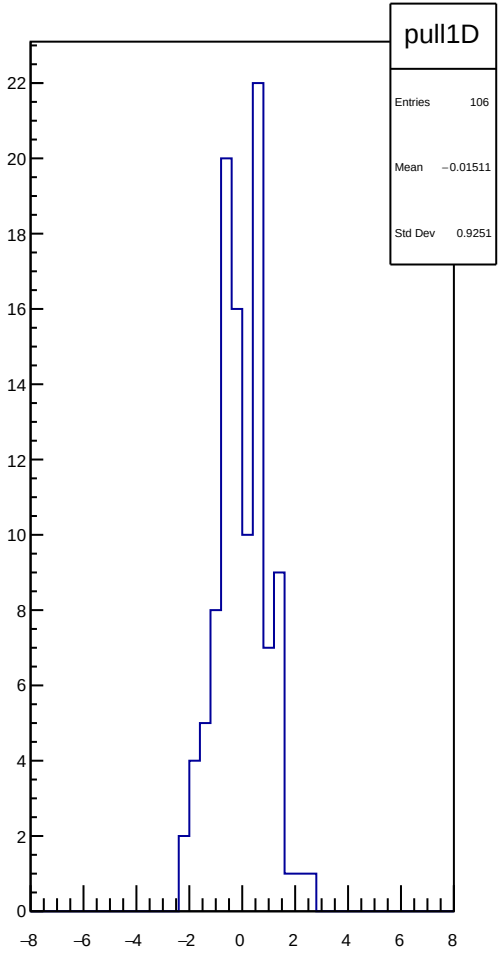

asym_sam_1548_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.27e+04 / 105
p0 52.6 ± 0.03719
100
90
80
70
60
50
40

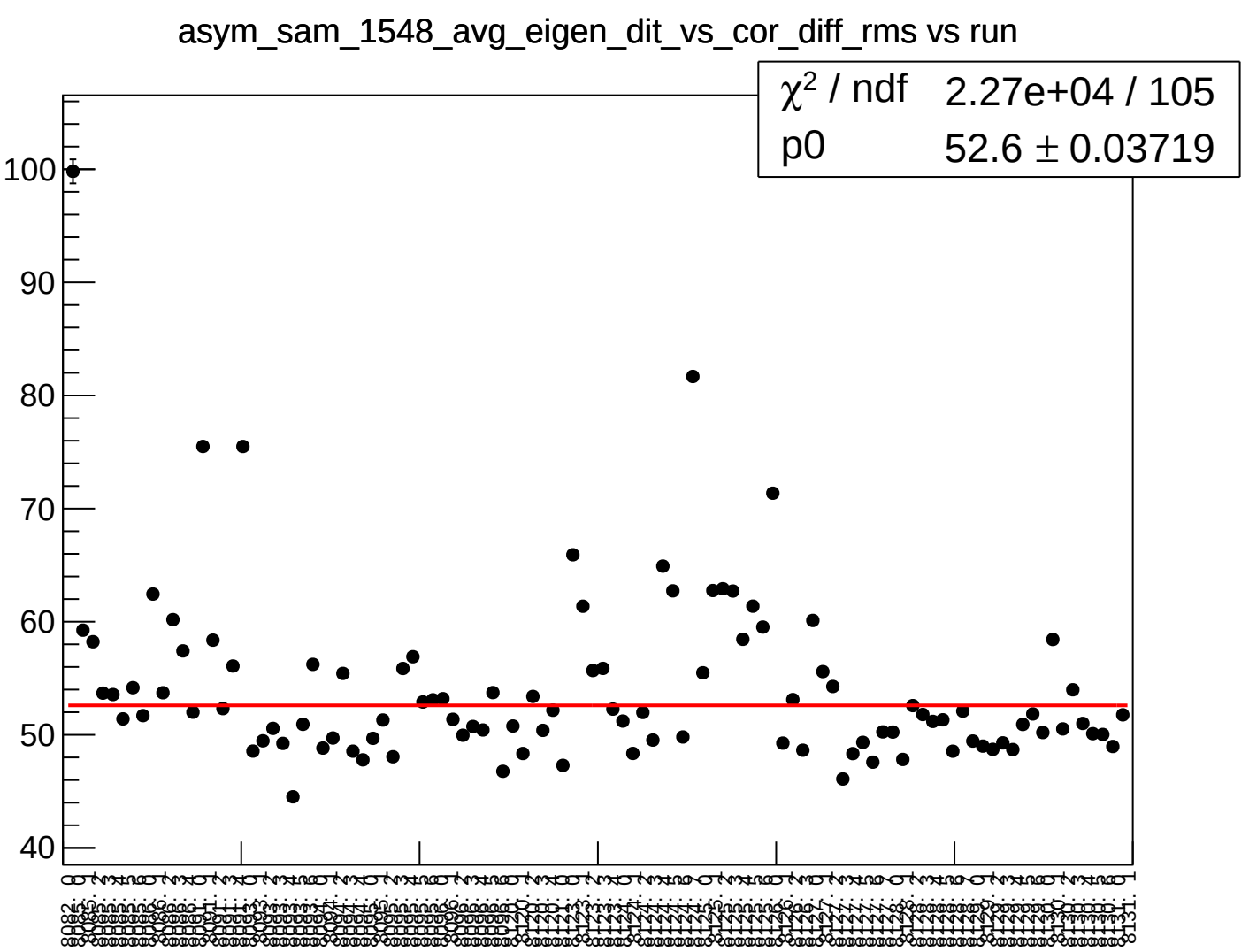

asym_sam_1548_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 101.9 / 104
p0 −1.636e−06 ± 1.247e−06
0.04
0.02
0
−0.02
−0.04
pull
Entries 105
Mean 506.5
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 105
Mean 0.003072
Std Dev 0.9853
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

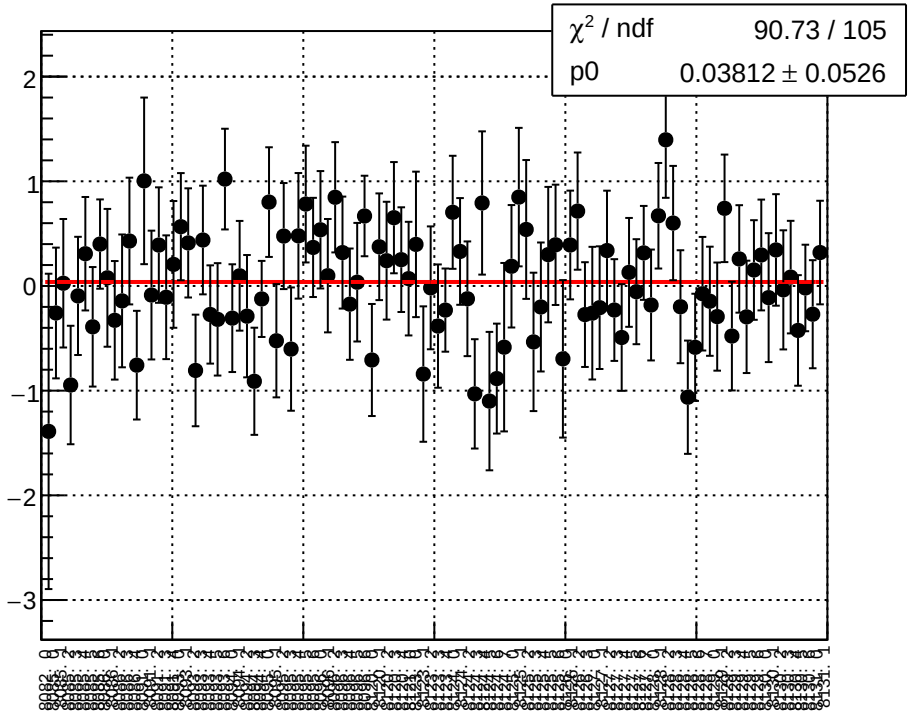

asym_sam_1548_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7491 / 104
p0 0.001249 ± 8.818e−07
0.0014
0.00135
0.0013
0.00125
0.0012
0.00115
0.0011

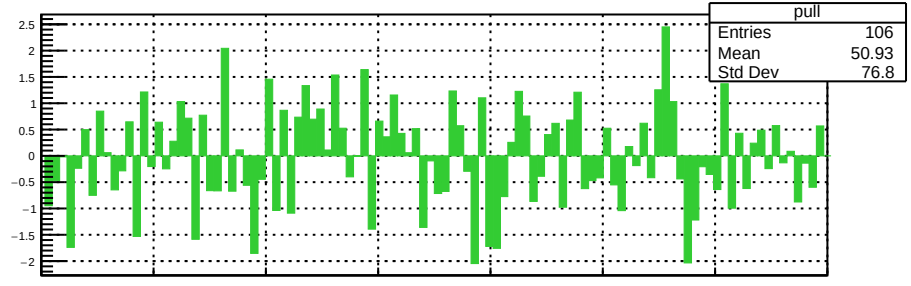

asym_sam_1548_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.73 / 105
p0 0.03812 ± 0.0526
pull
Entries 106
Mean 50.93
Std Dev 76.8

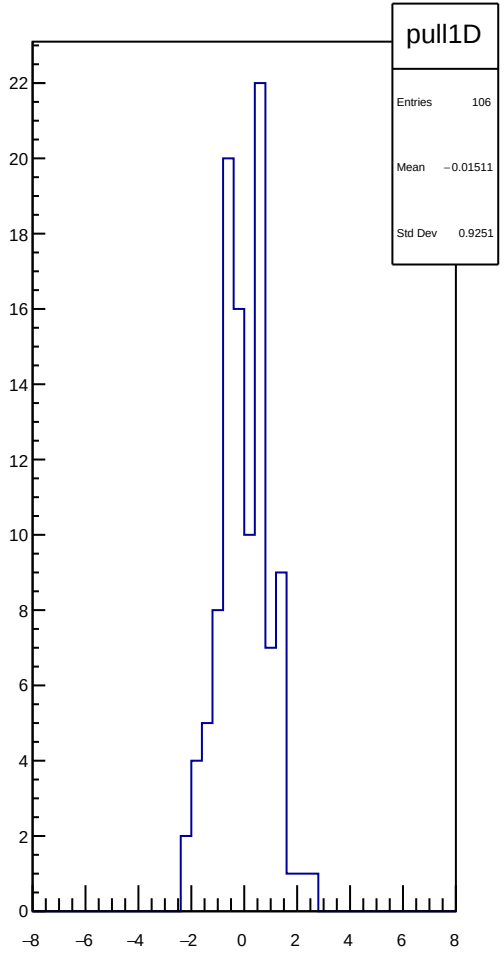

pull1D
Entries 106
Mean −0.01511
Std Dev 0.9251

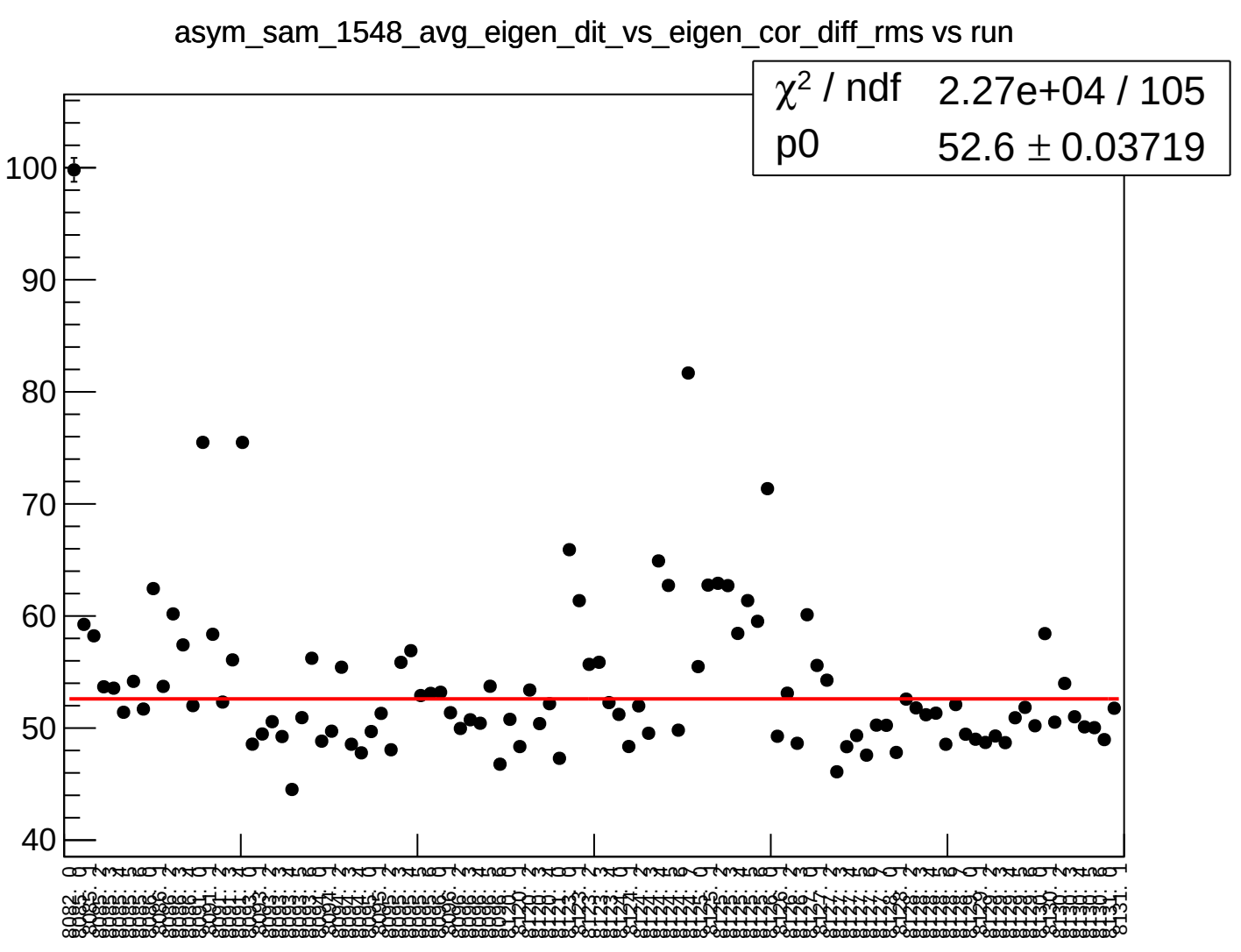

asym_sam_1548_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.27e+04 / 105
p0 52.6 ± 0.03719
100
90
80
70
60
50
40

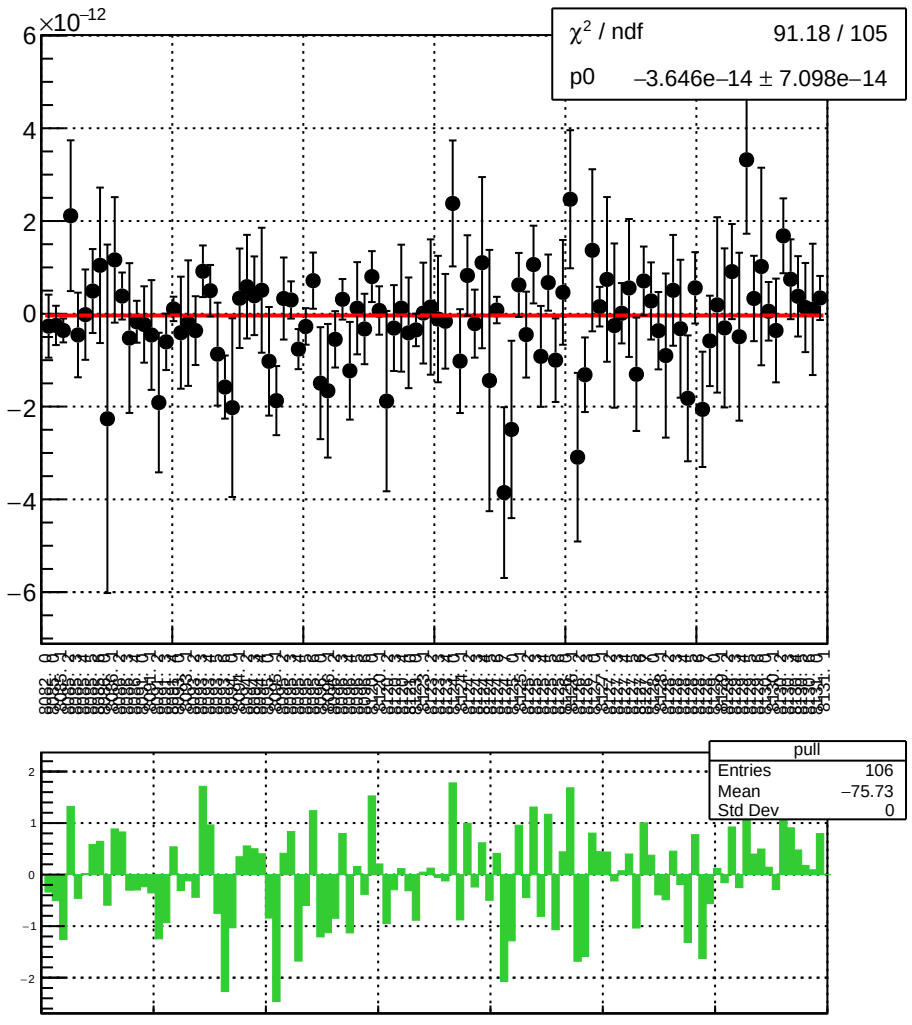
asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_mean vs run

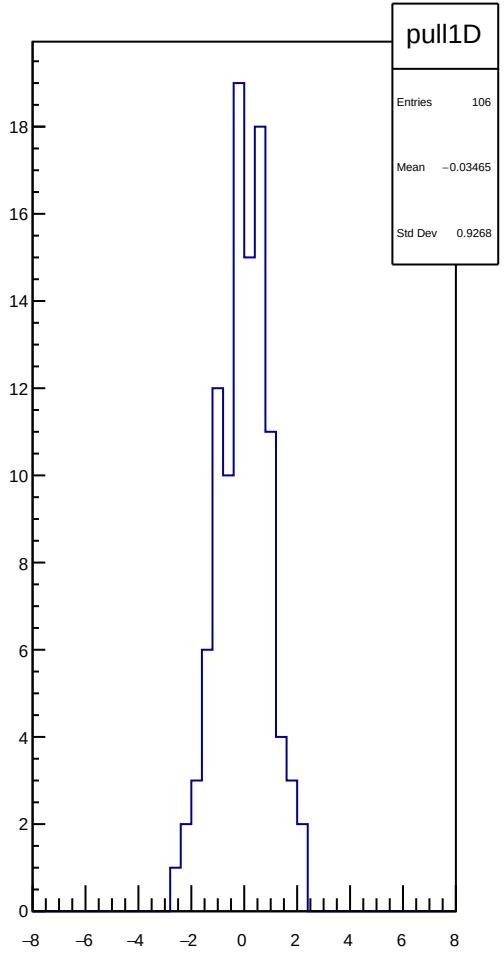


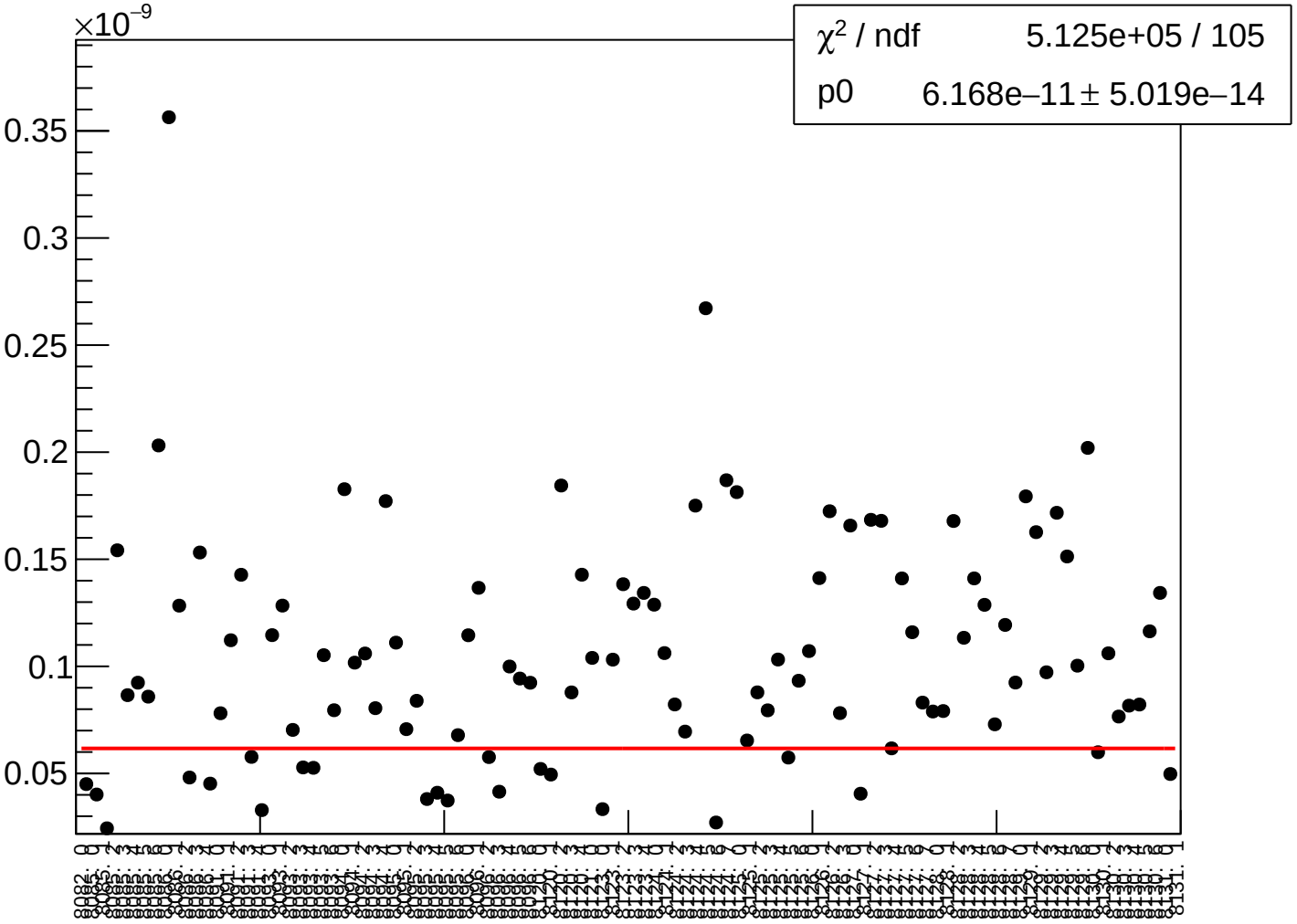



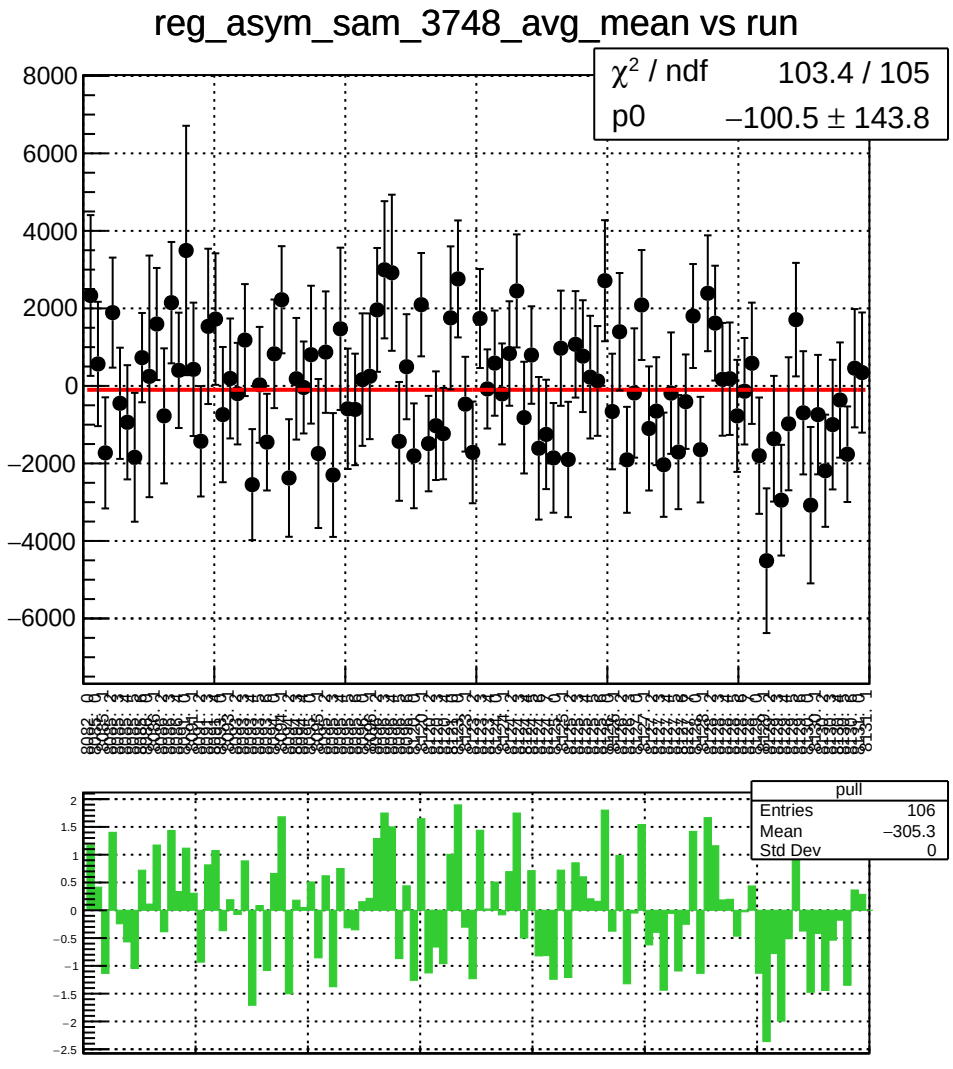



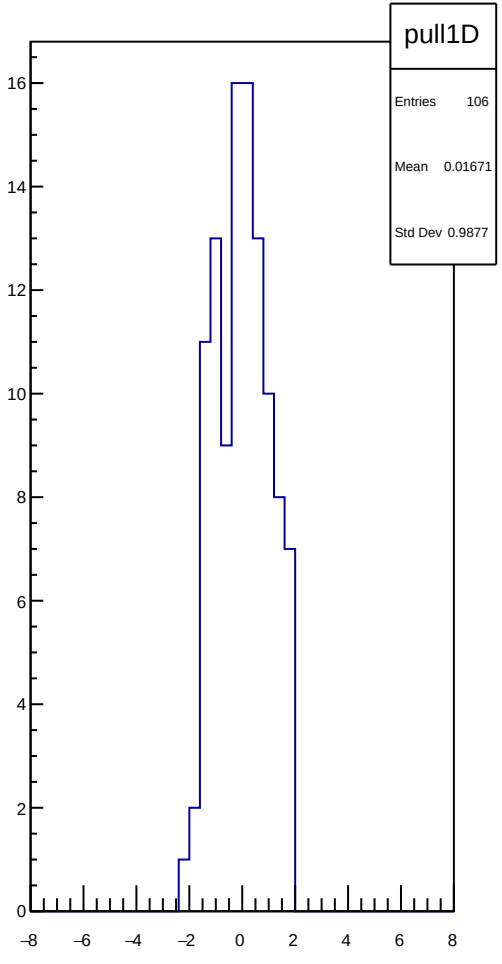

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.27e+04 / 105
p0 52.6 ± 0.03719
100
90
80
70
60
50
40

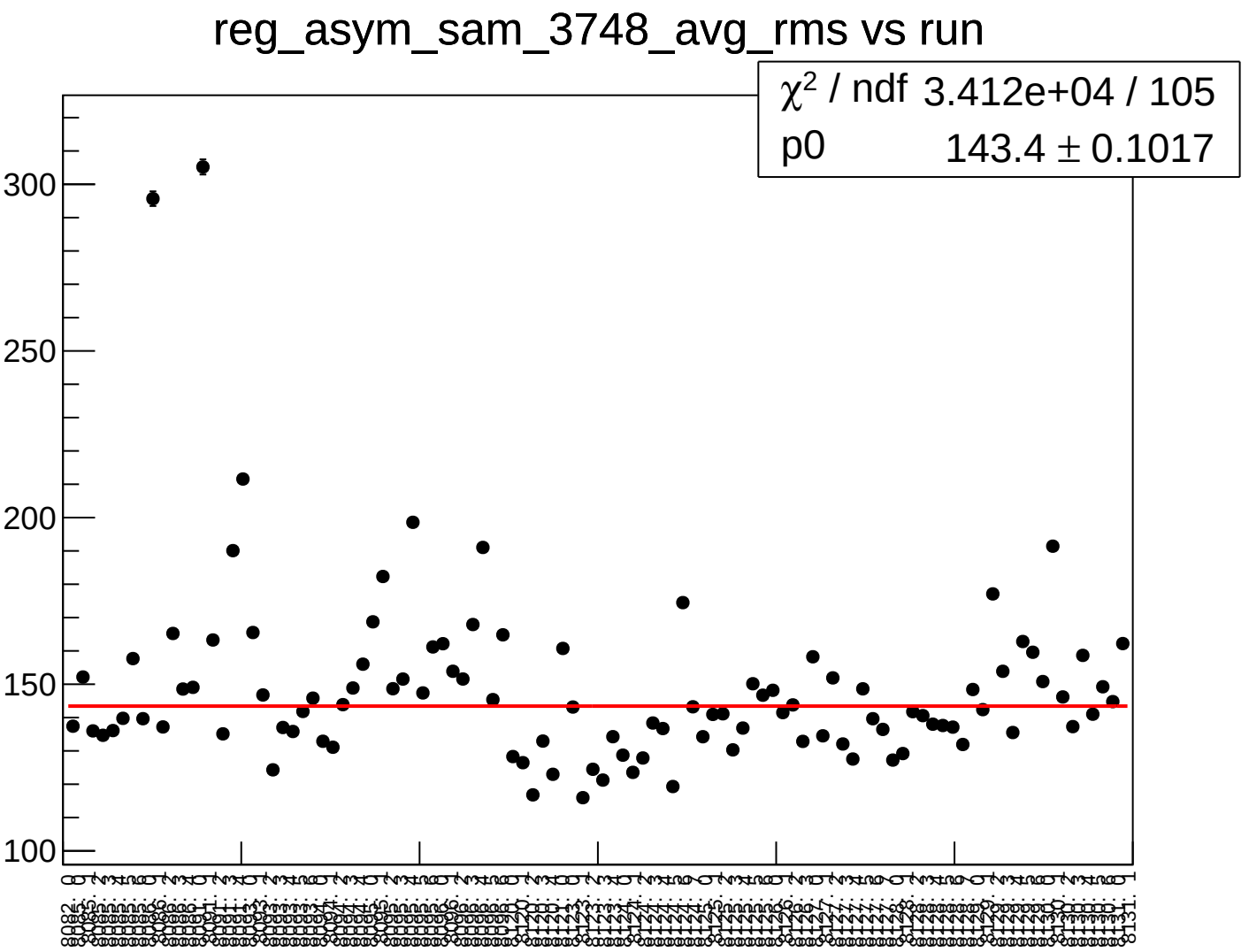

asym_sam_1548_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 91.18 / 105
p0 −3.646e−14 ± 7.098e−14
pull
Entries 106
Mean −75.73
Std Dev 0

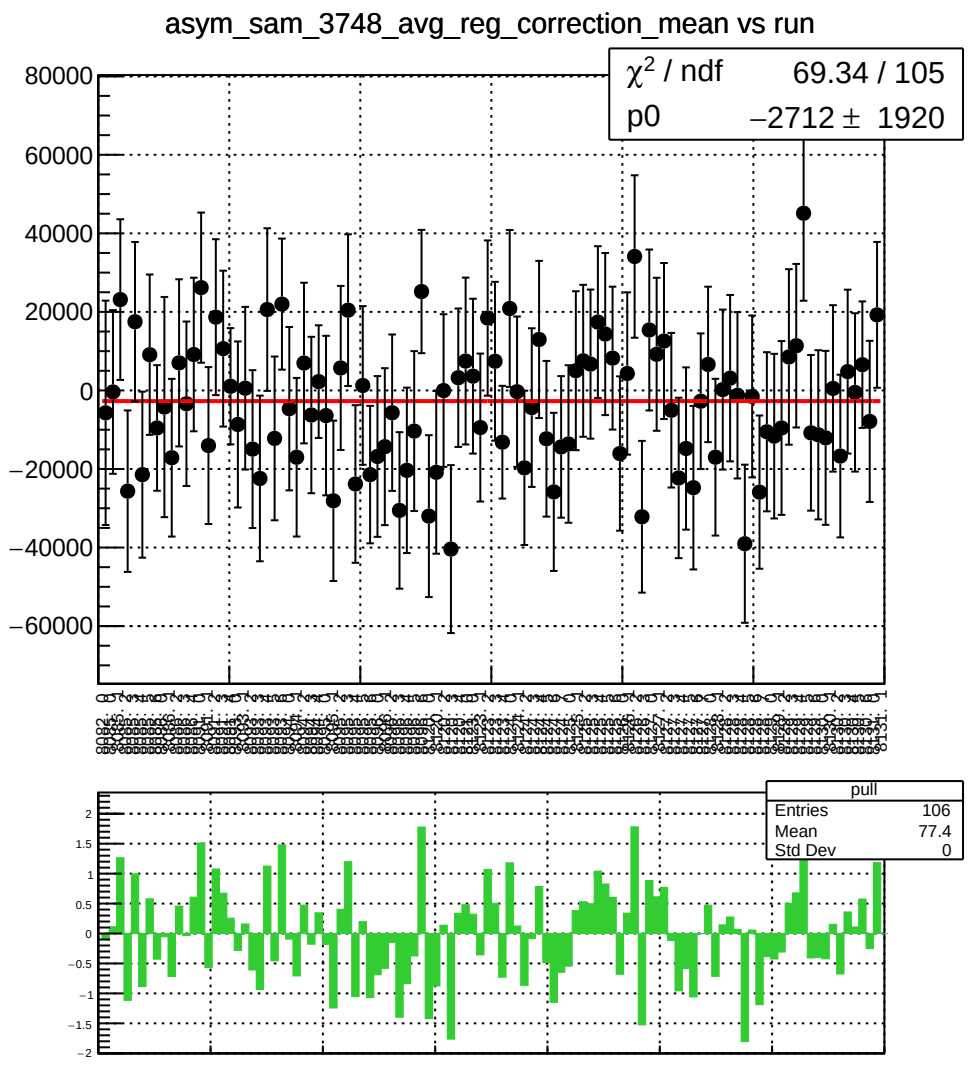

pull1D
Entries 106
Mean −0.03465
Std Dev 0.9268

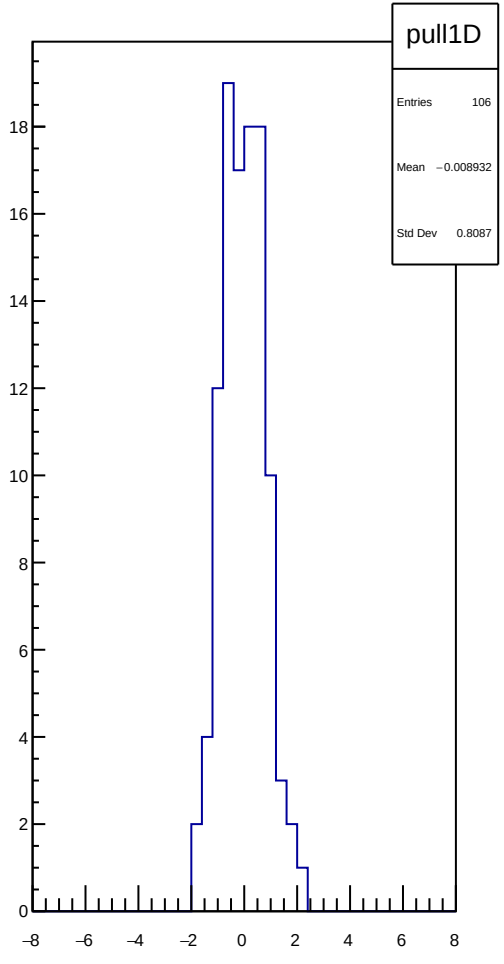

asym_sam_1548_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.125e+05 / 105
p0 6.168e−11 ± 5.019e−14
0.35
0.3
0.25
0.2
0.15
0.1
0.05

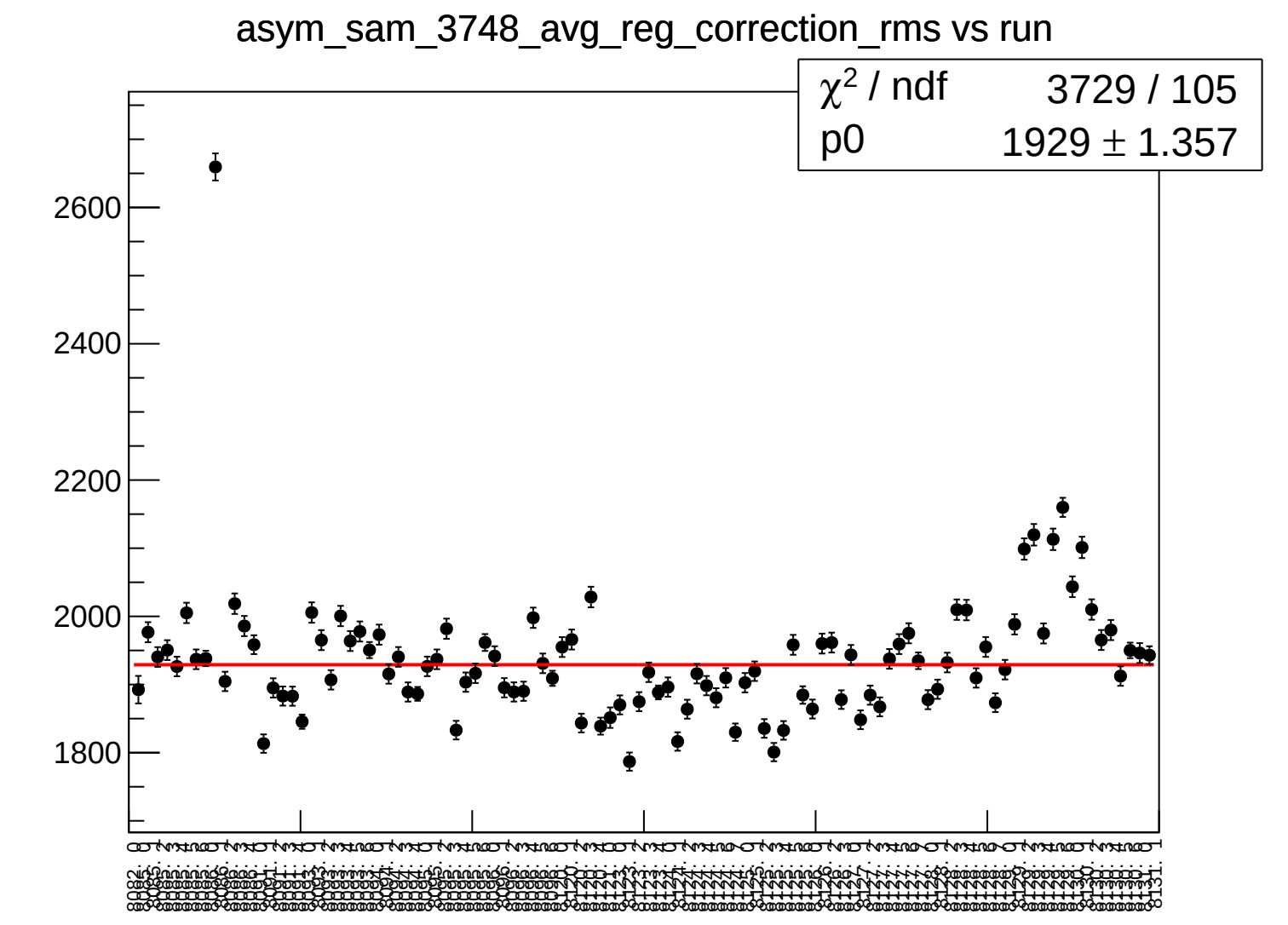

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 103.4 / 105
p0 −100.5 ± 143.8
pull
Entries 106
Mean −305.3
Std Dev 0

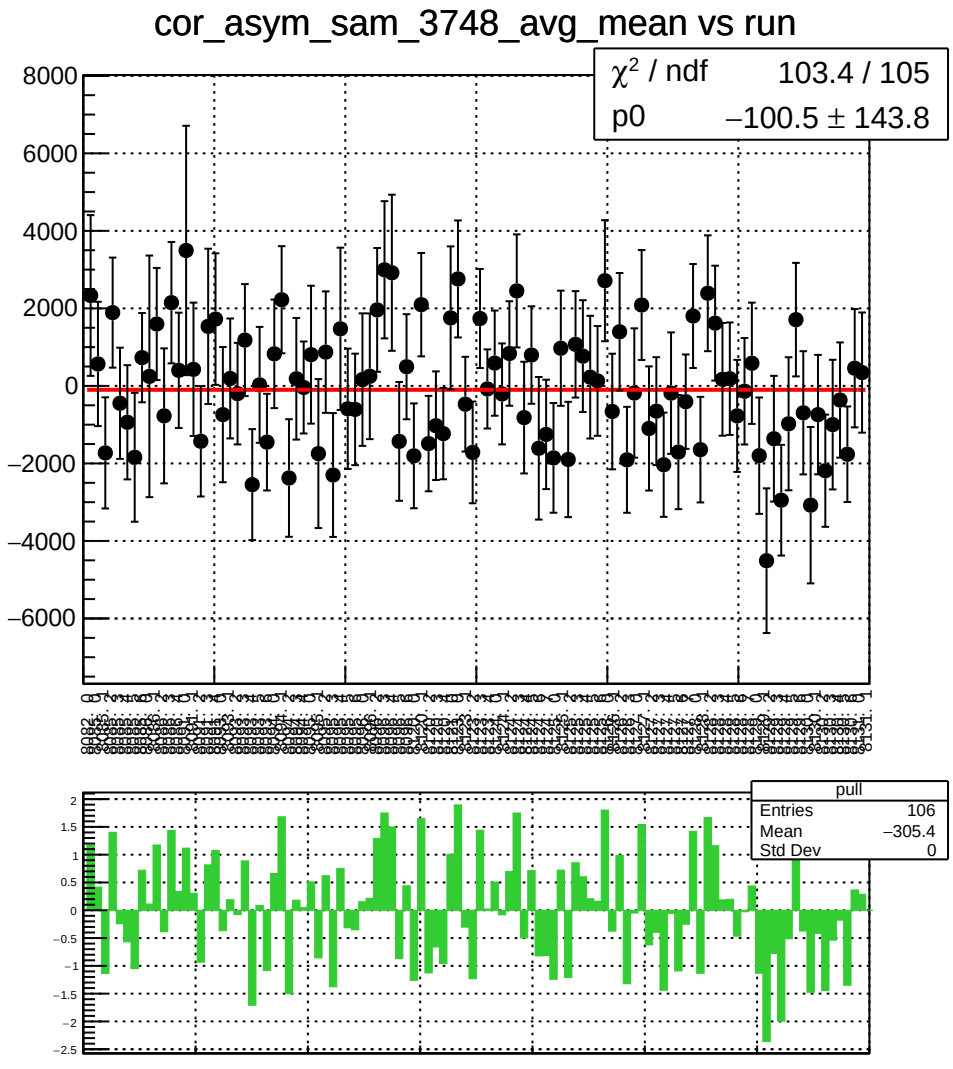

pull1D
Entries 106
Mean 0.01671
Std Dev 0.9877

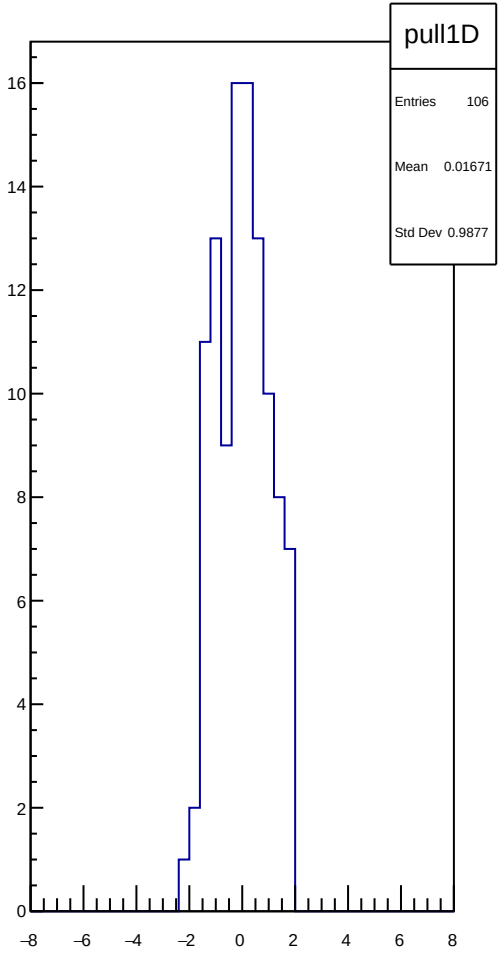

reg_asym_sam_3748_avg_rms vs run
χ² / ndf 3.412e+04 / 105
p0 143.4 ± 0.1017
300
250
200
150
100

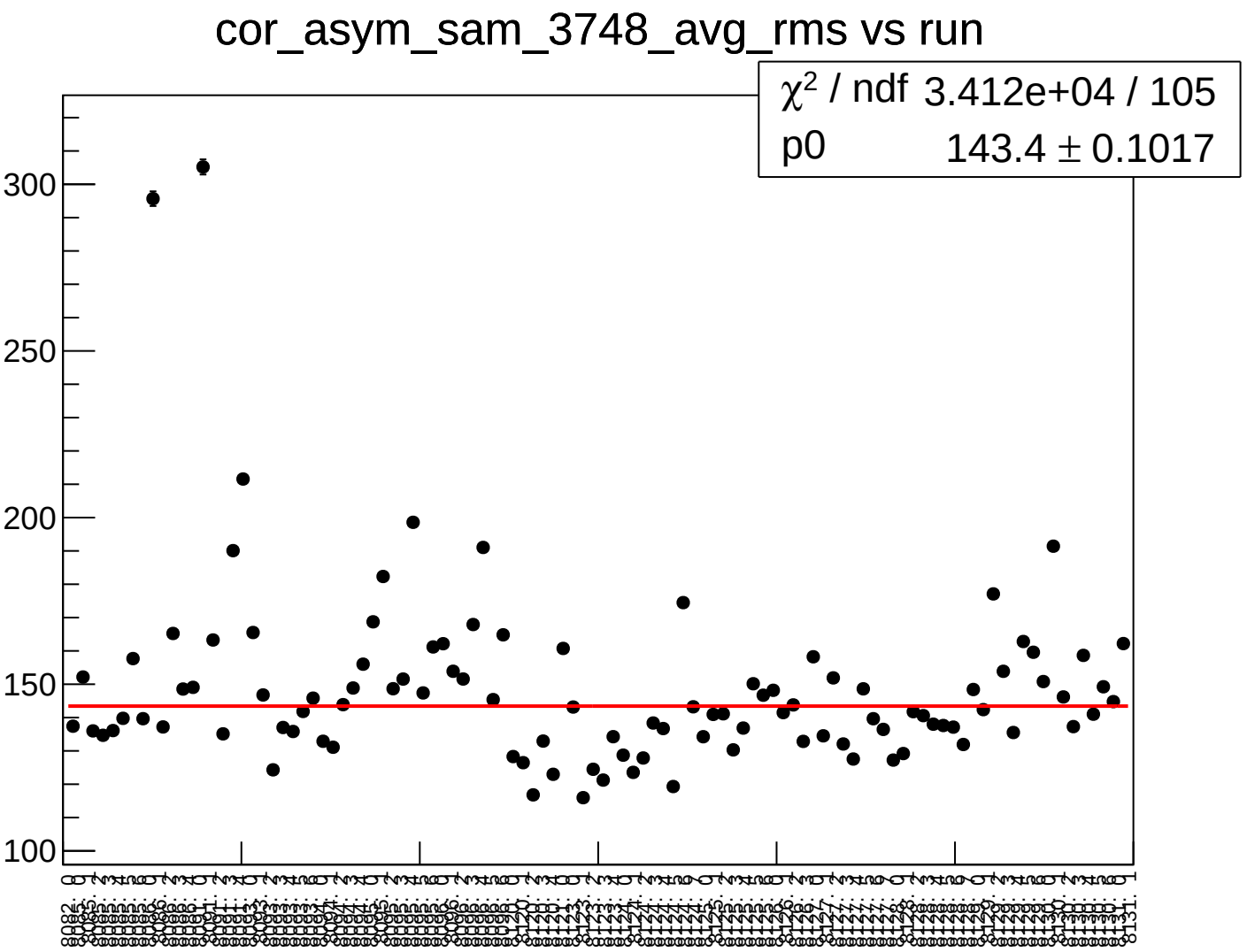

asym_sam_3748_avg_reg_correction_mean vs run
χ² / ndf 69.34 / 105
p0 −2712 ± 1920
pull
Entries 106
Mean 77.4
Std Dev 0

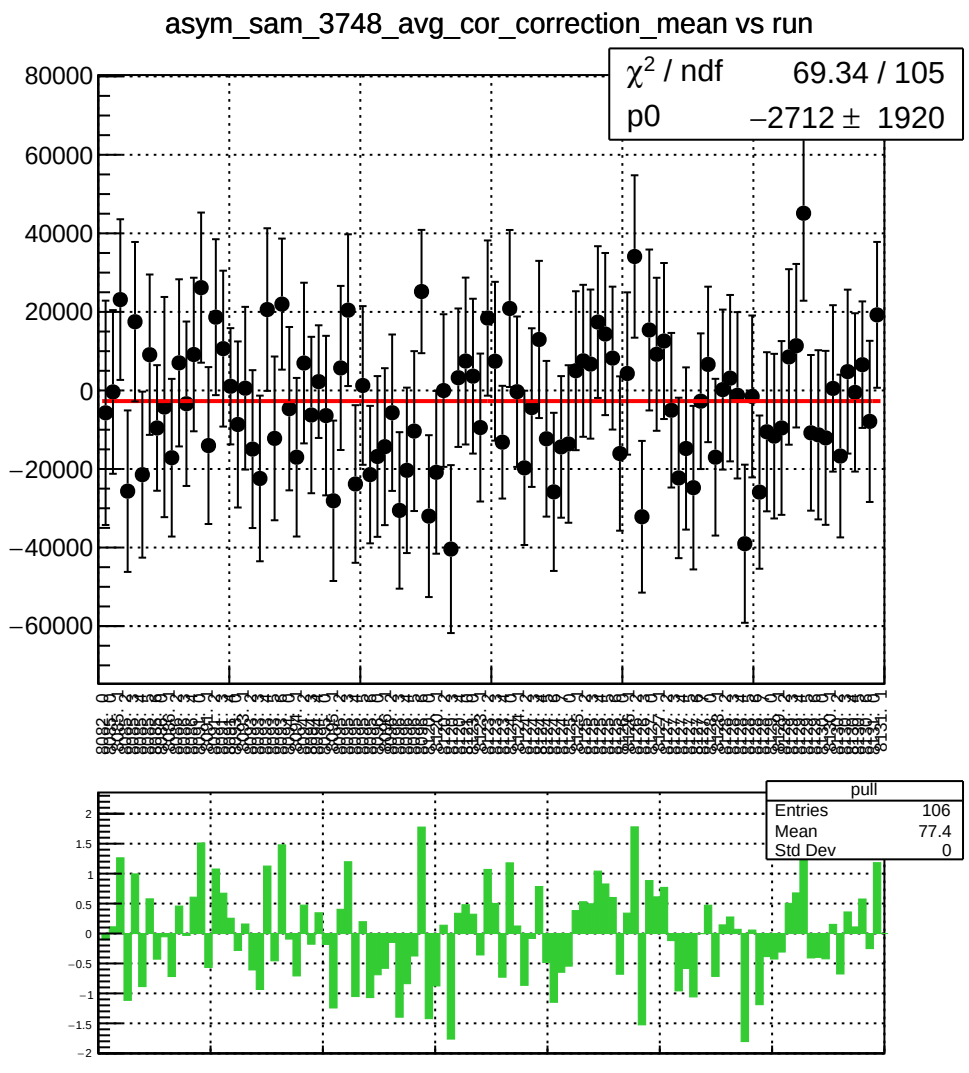

pull1D
Entries 106
Mean −0.008932
Std Dev 0.8087

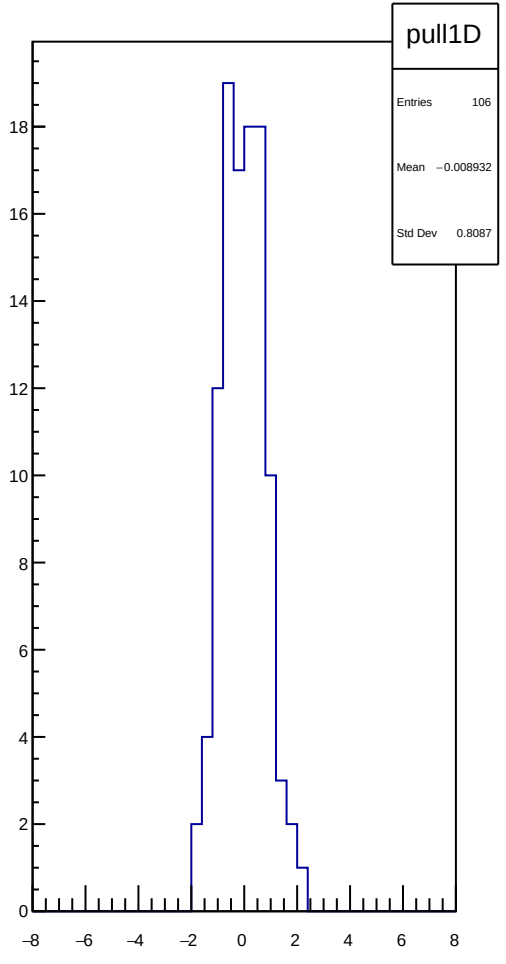

asym_sam_3748_avg_reg_correction_rms vs run
χ² / ndf 3729 / 105
p0 1929 ± 1.357
2600
2400
2200
2000
1800

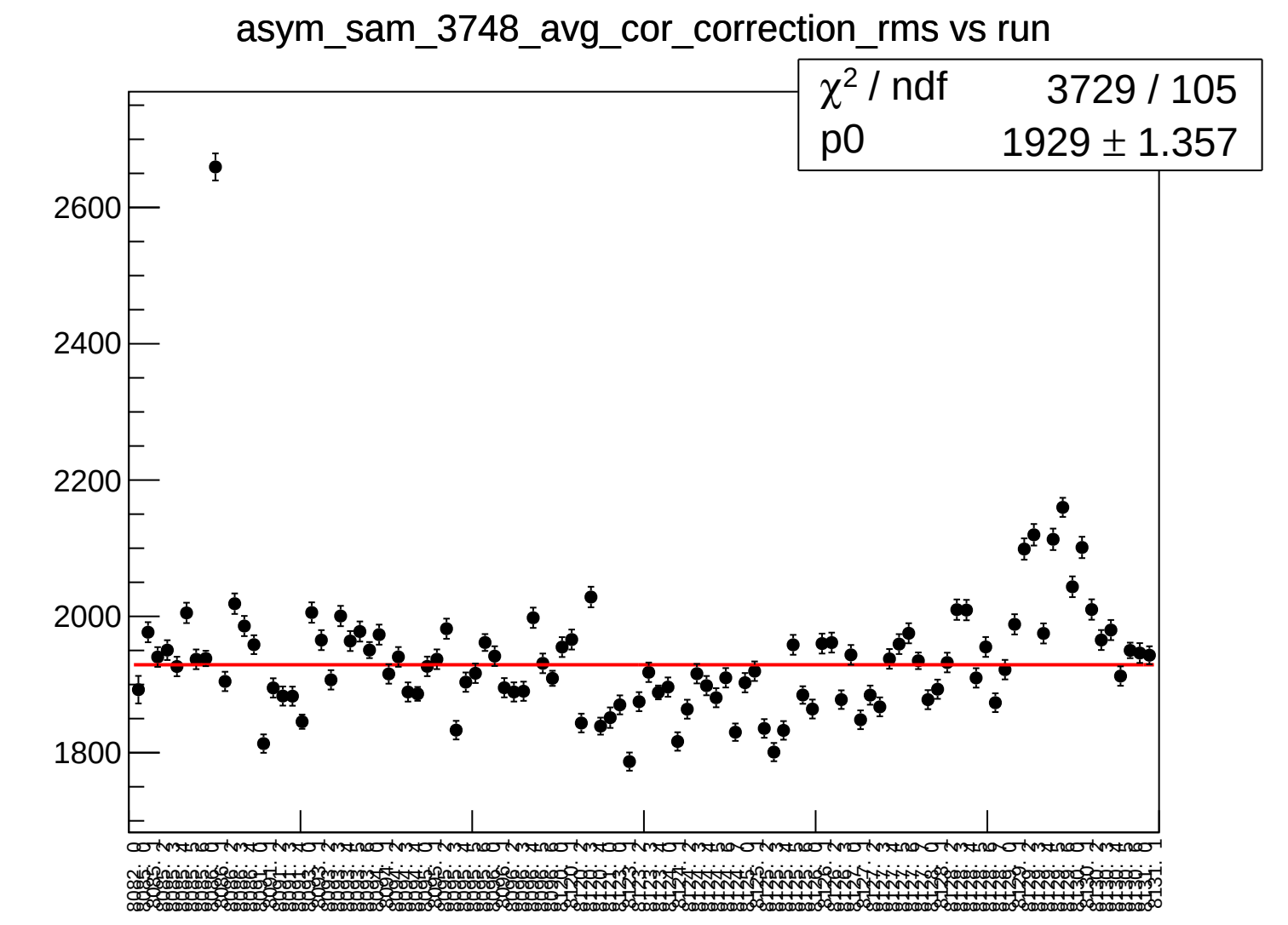

cor_asym_sam_3748_avg_mean vs run
χ² / ndf 103.4 / 105
p0 −100.5 ± 143.8
pull
Entries 106
Mean −305.4
Std Dev 0

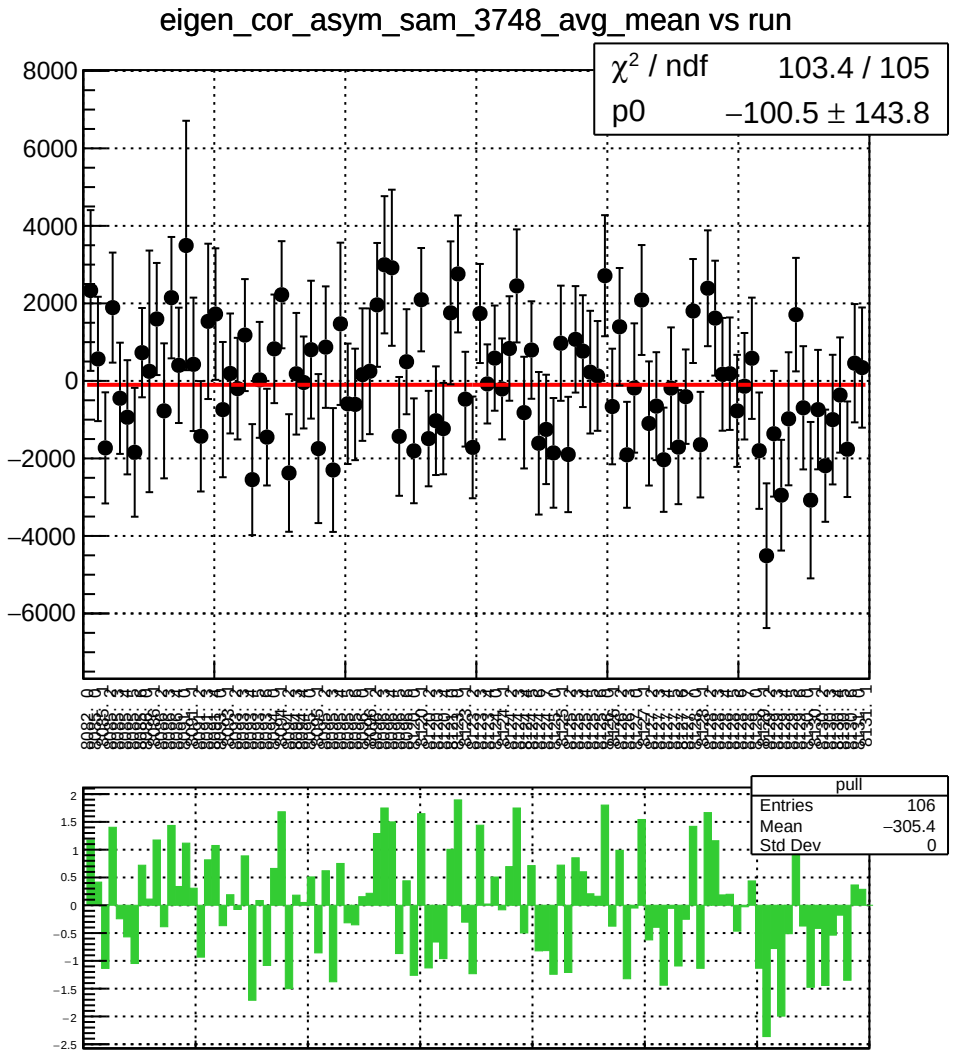

pull1D
Entries 106
Mean 0.01671
Std Dev 0.9877

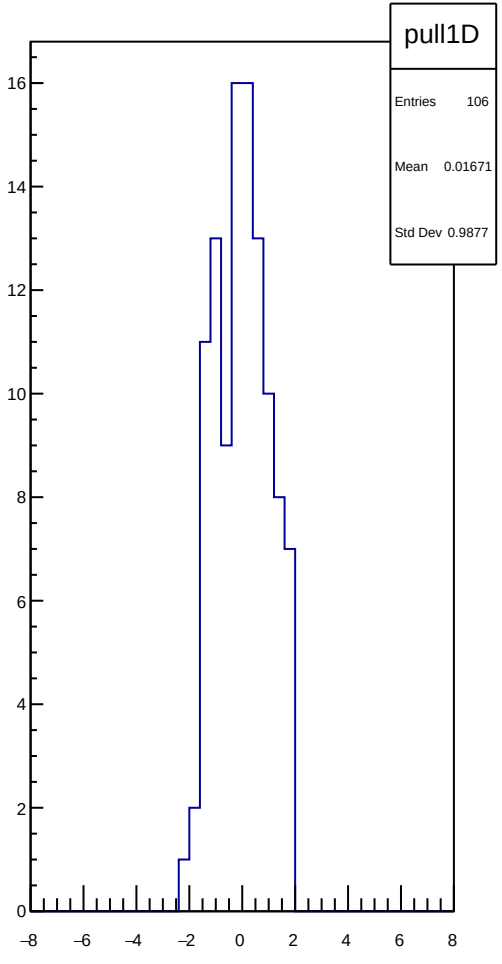

cor_asym_sam_3748_avg_rms vs run
χ² / ndf 3.412e+04 / 105
p0 143.4 ± 0.1017
300
250
200
150
100

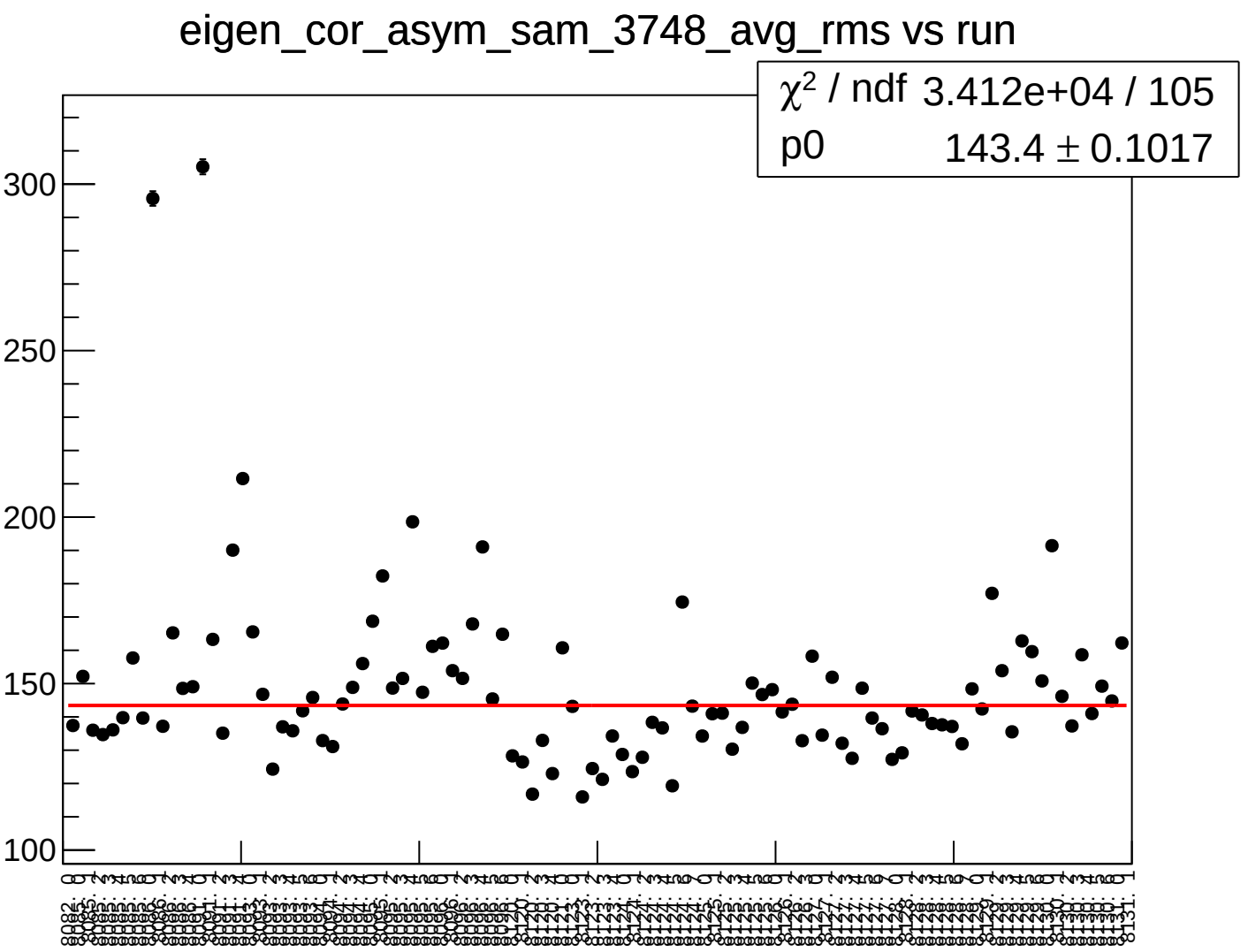

asym_sam_3748_avg_cor_correction_mean vs run
χ² / ndf 69.34 / 105
p0 −2712 ± 1920
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean 77.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

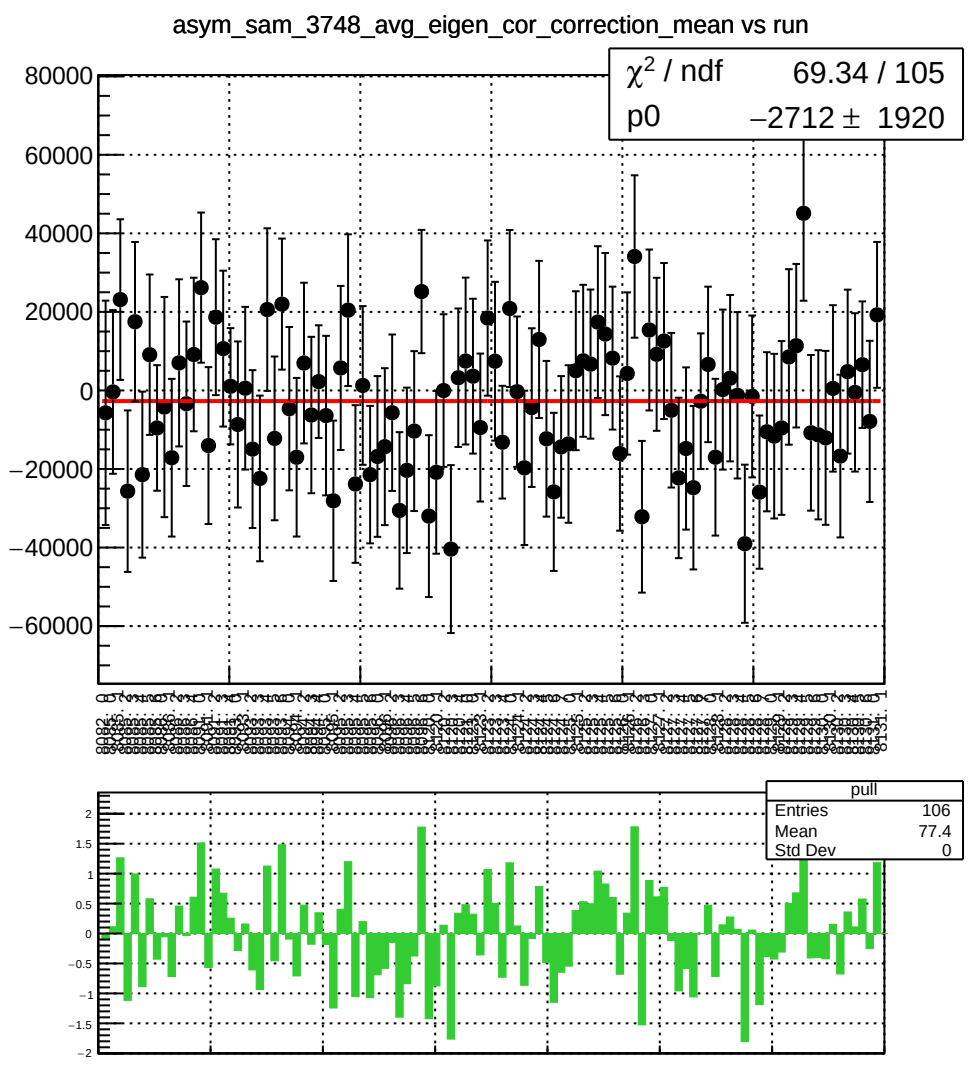

pull1D
Entries 106
Mean −0.008932
Std Dev 0.8087
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

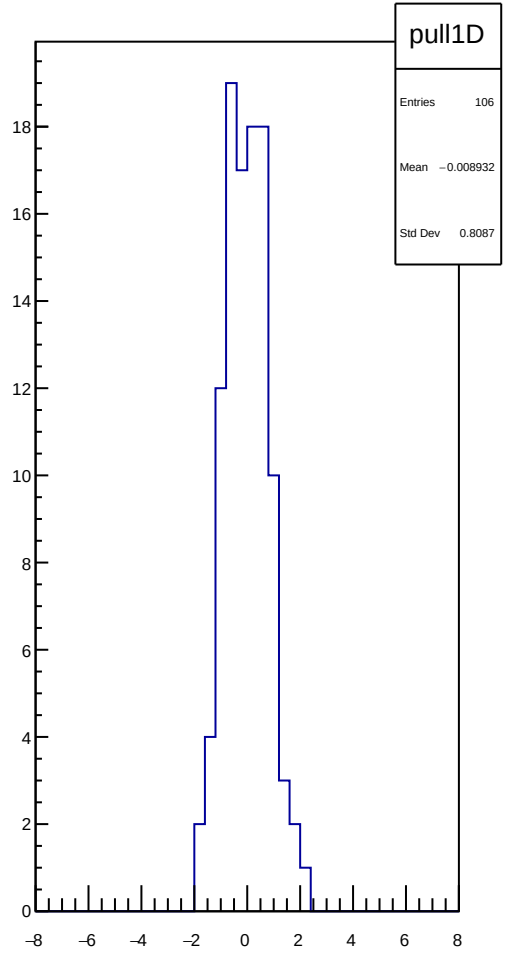

asym_sam_3748_avg_cor_correction_rms vs run
$\chi^2$ / ndf 3729 / 105
p0 1929 ± 1.357
2600
2400
2200
2000
1800

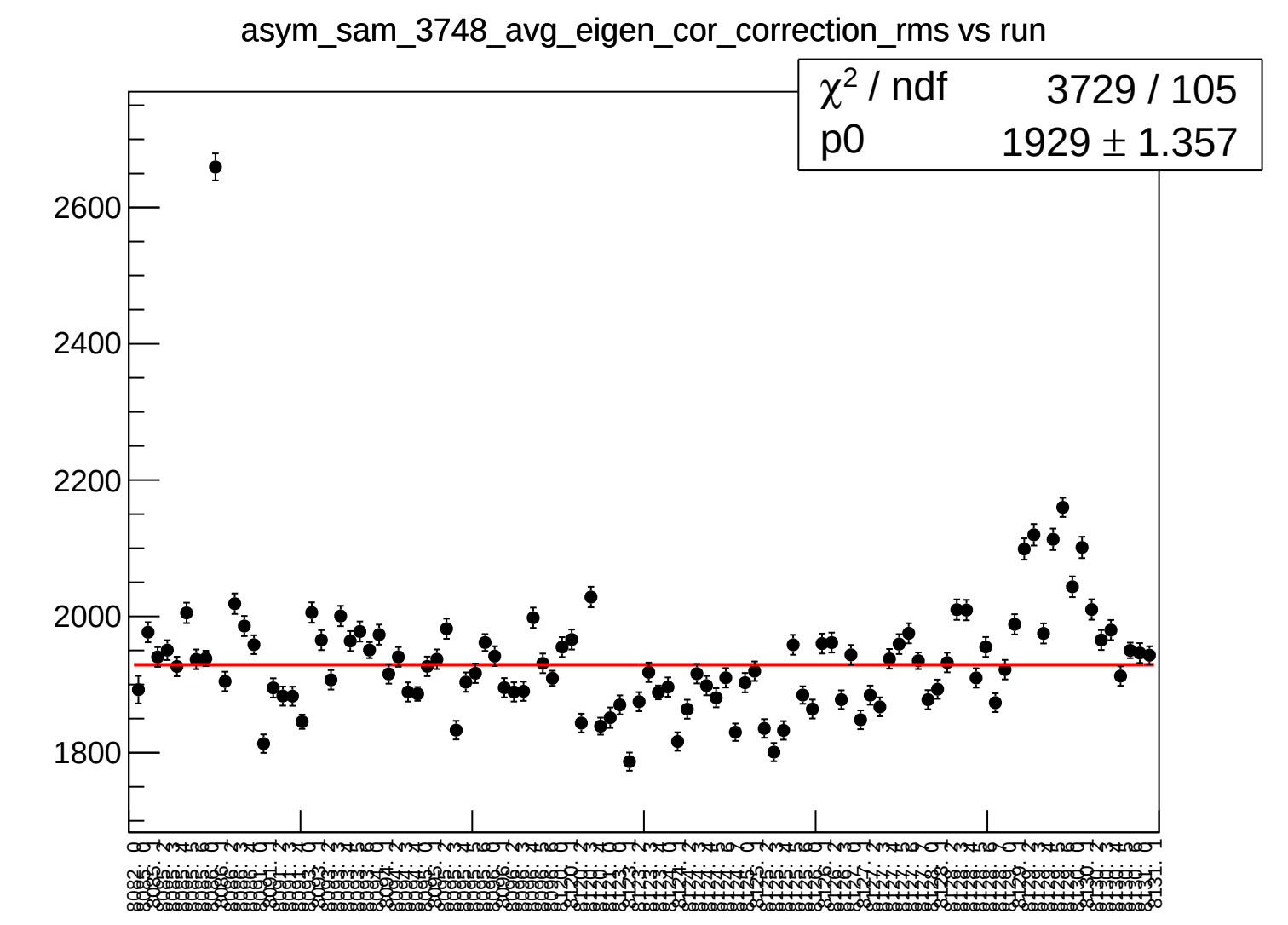

eigen_cor_asym_sam_3748_avg_mean vs run
χ² / ndf 103.4 / 105
p0 −100.5 ± 143.8
pull
Entries 106
Mean −305.4
Std Dev 0

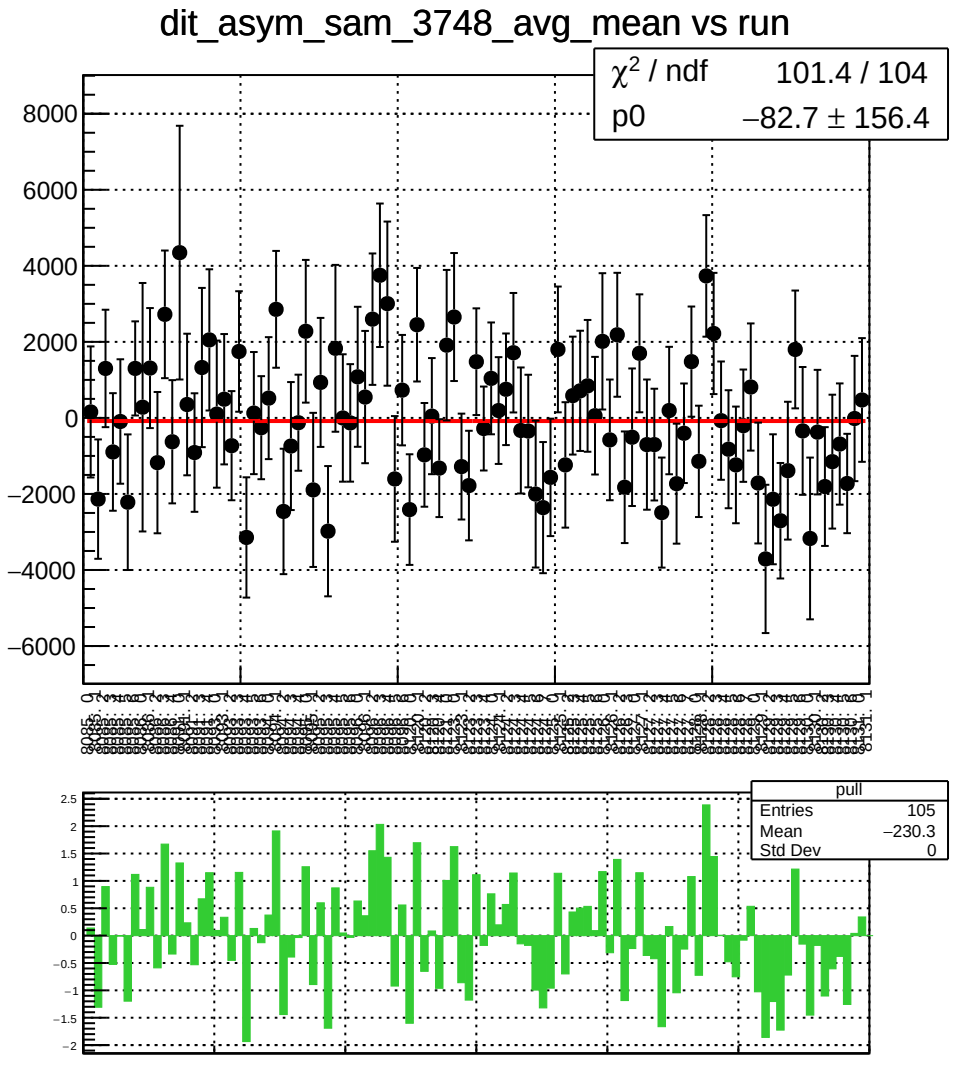

pull1D
Entries 106
Mean 0.01671
Std Dev 0.9877

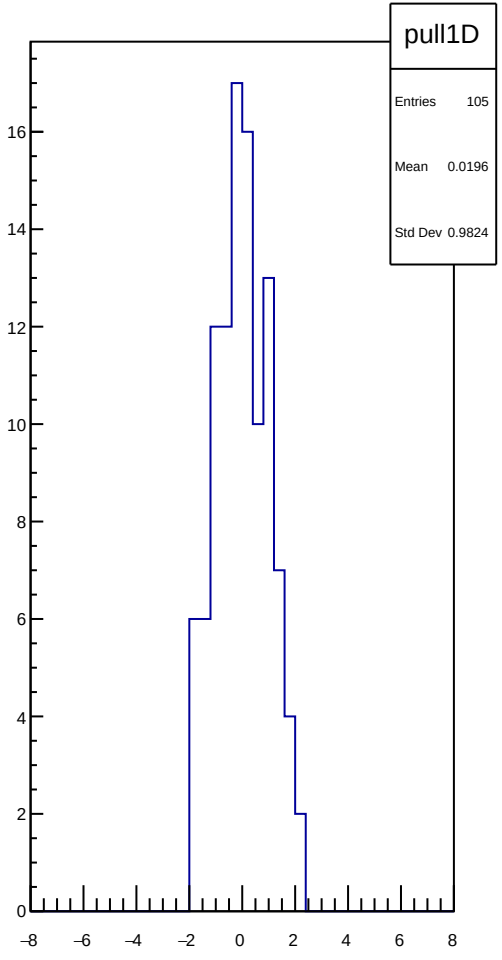

eigen_cor_asym_sam_3748_avg_rms vs run
χ² / ndf 3.412e+04 / 105
p0 143.4 ± 0.1017
300
250
200
150
100

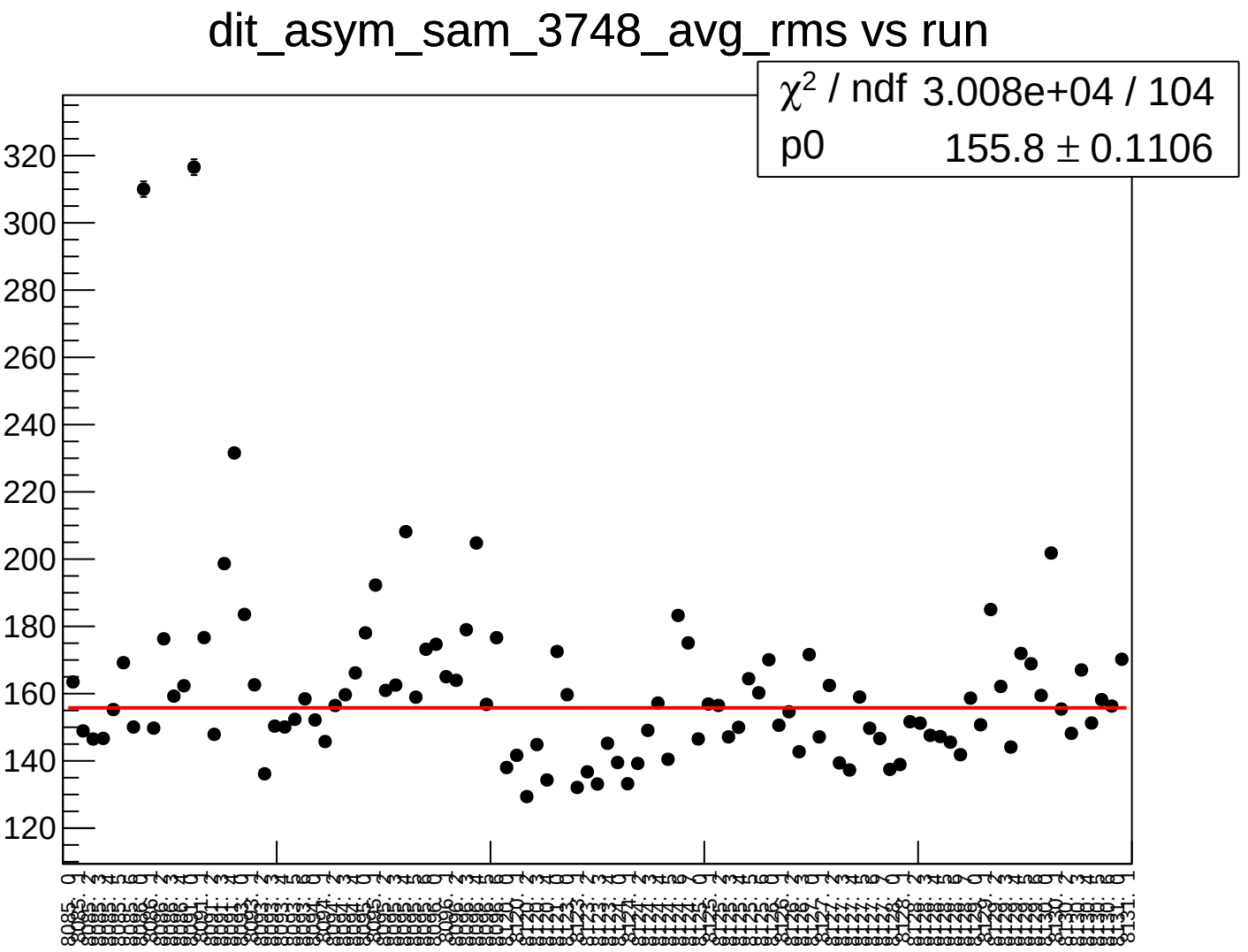

asym_sam_3748_avg_eigen_cor_correction_mean vs run
χ² / ndf 69.34 / 105
p0 −2712 ± 1920
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean 77.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

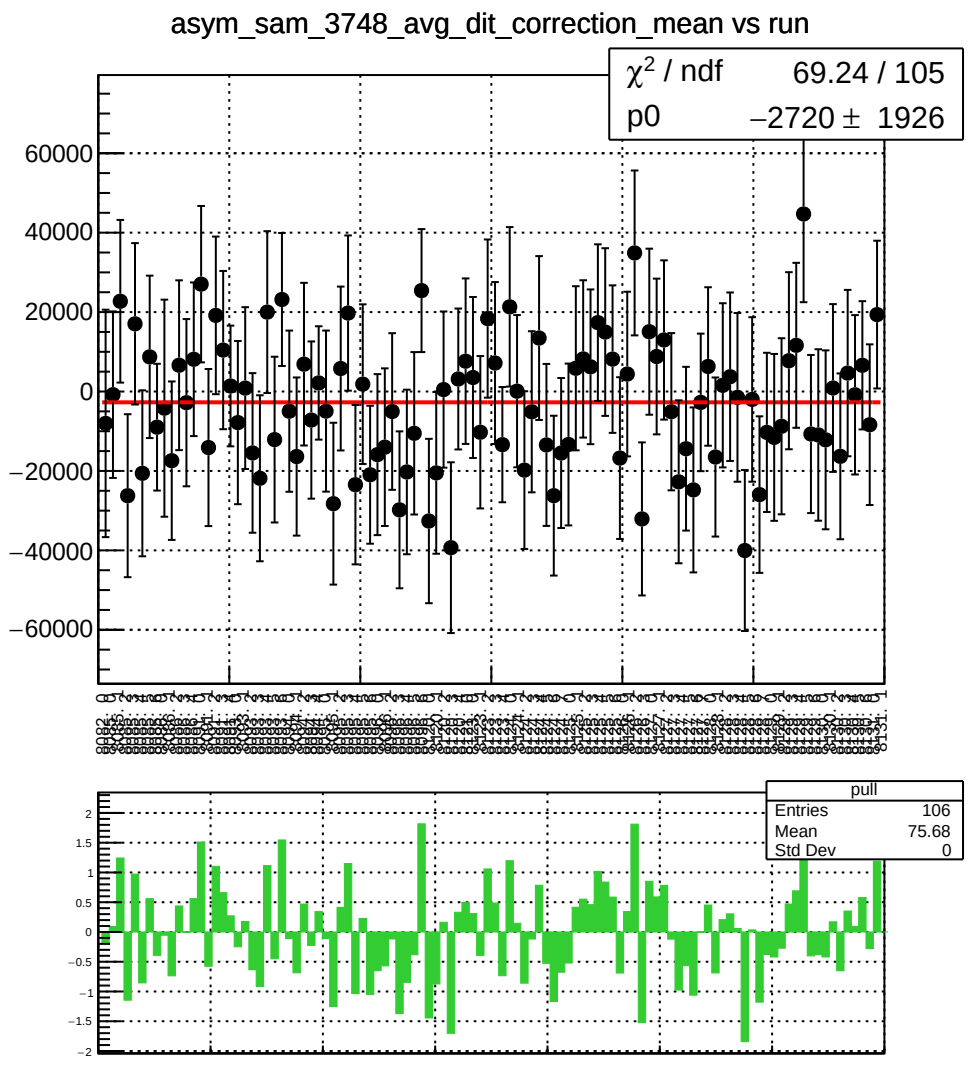

pull1D
Entries 106
Mean −0.008932
Std Dev 0.8087
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

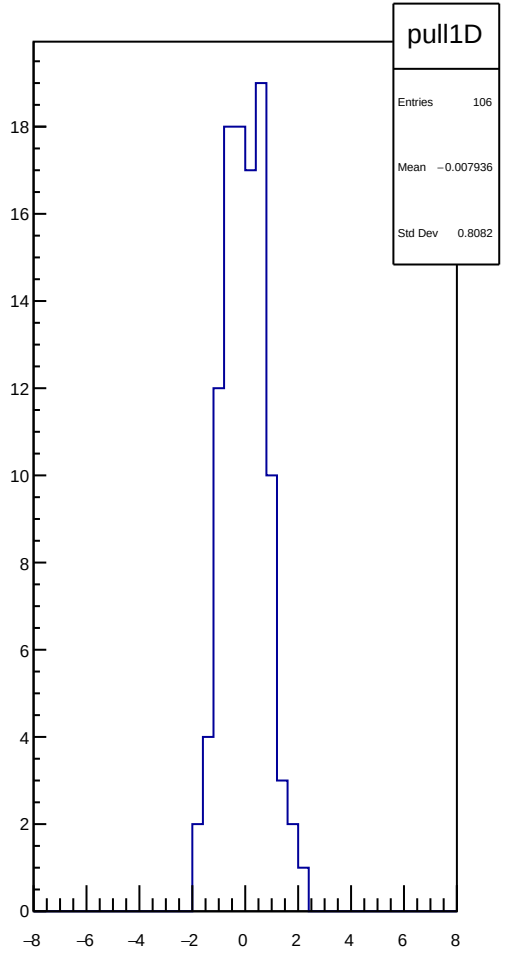

asym_sam_3748_avg_eigen_cor_correction_rms vs run
$\chi^2$ / ndf 3729 / 105
p0 1929 ± 1.357
2600
2400
2200
2000
1800

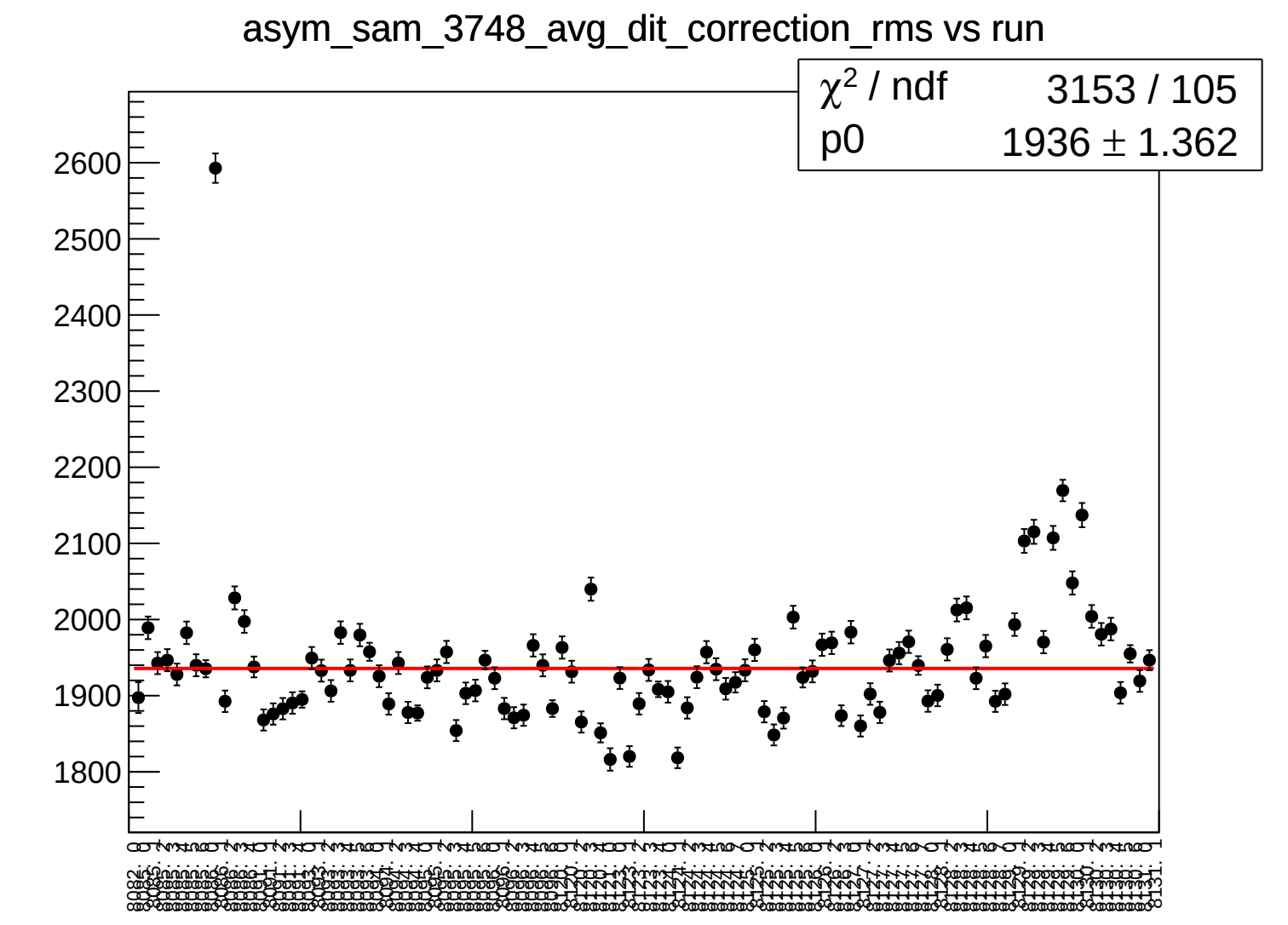

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 101.4 / 104
p0 −82.7 ± 156.4
pull
Entries 105
Mean −230.3
Std Dev 0

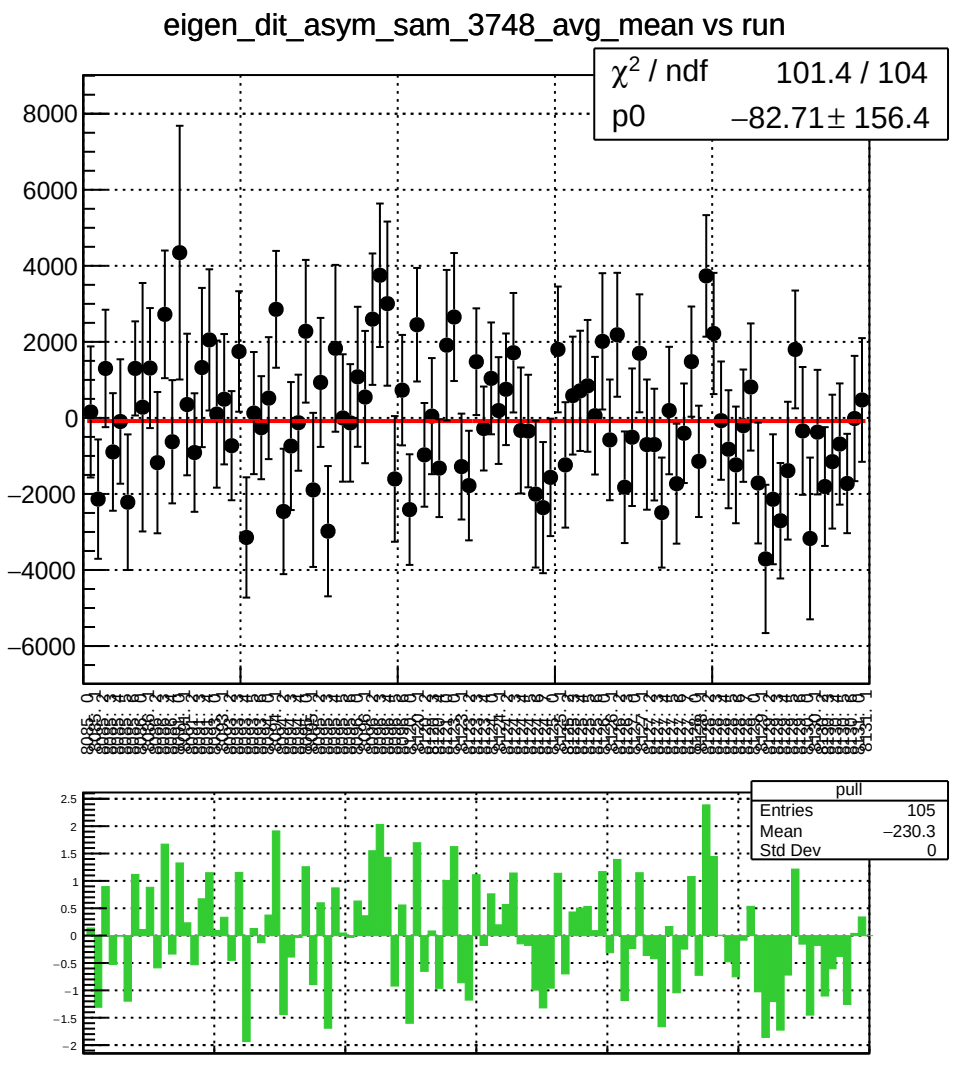

pull1D
Entries 105
Mean 0.0196
Std Dev 0.9824

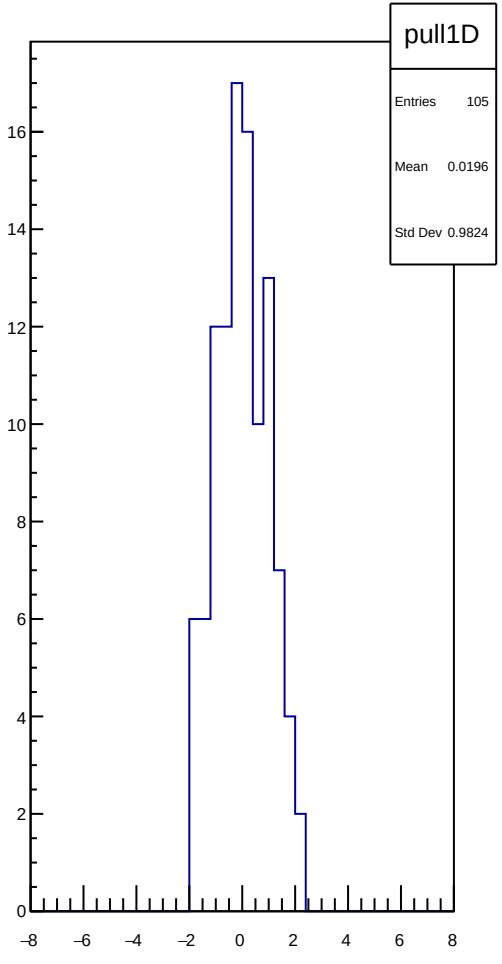

dit_asym_sam_3748_avg_rms vs run
χ² / ndf 3.008e+04 / 104
p0 155.8 ± 0.1106
320
300
280
260
240
220
200
180
160
140
120

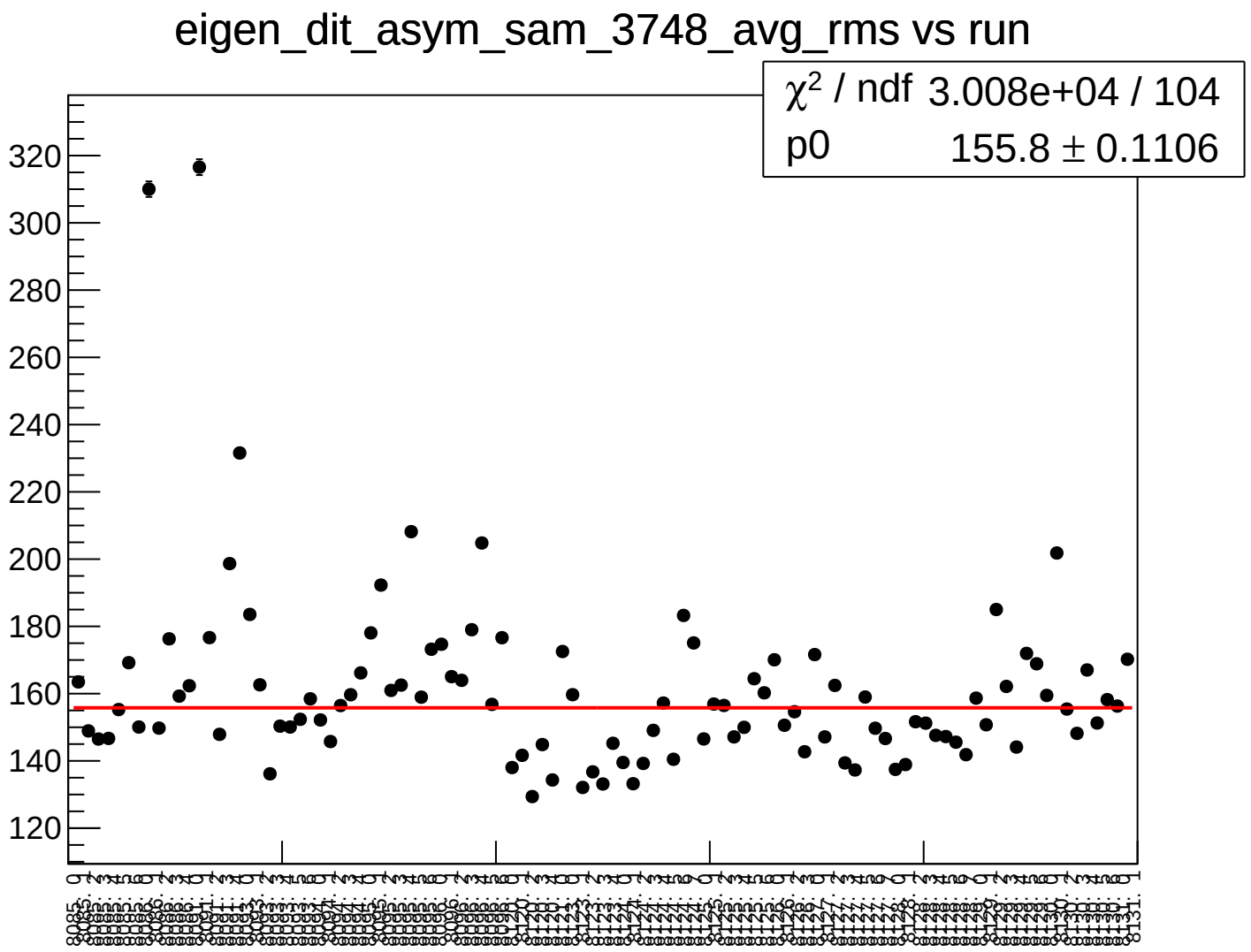

asym_sam_3748_avg_dit_correction_mean vs run
χ² / ndf 69.24 / 105
p0 −2720 ± 1926
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean 75.68
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

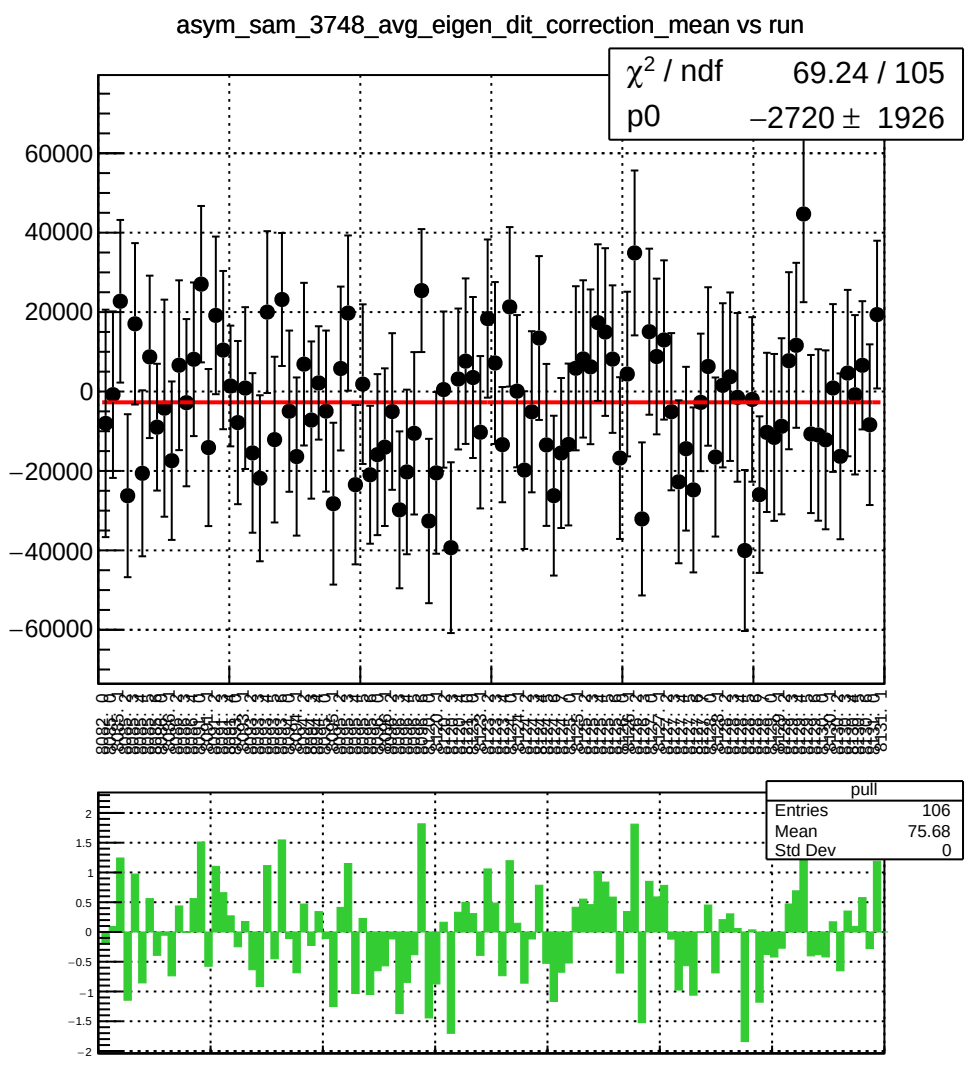

pull1D
Entries 106
Mean −0.007936
Std Dev 0.8082
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

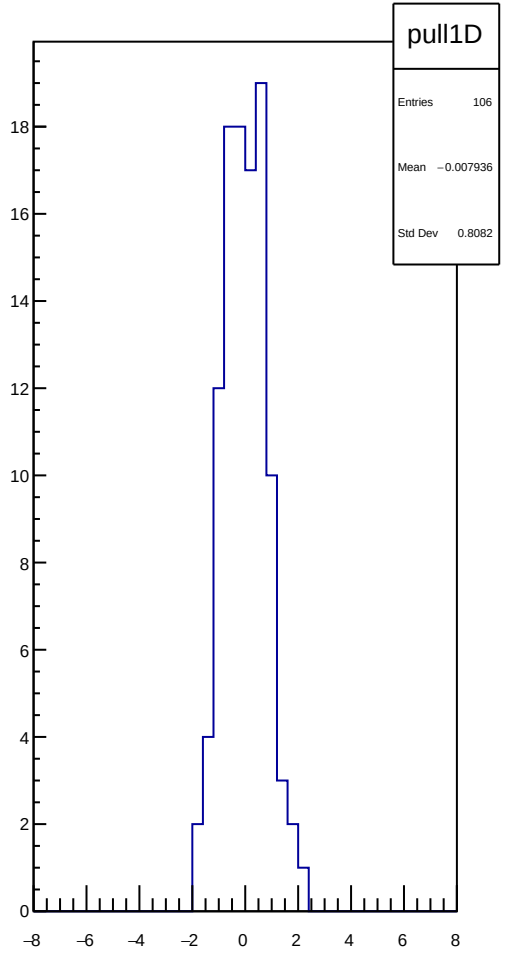

asym_sam_3748_avg_dit_correction_rms vs run
$\chi^2$ / ndf 3153 / 105
p0 1936 ± 1.362
2600
2500
2400
2300
2200
2100
2000
1900
1800

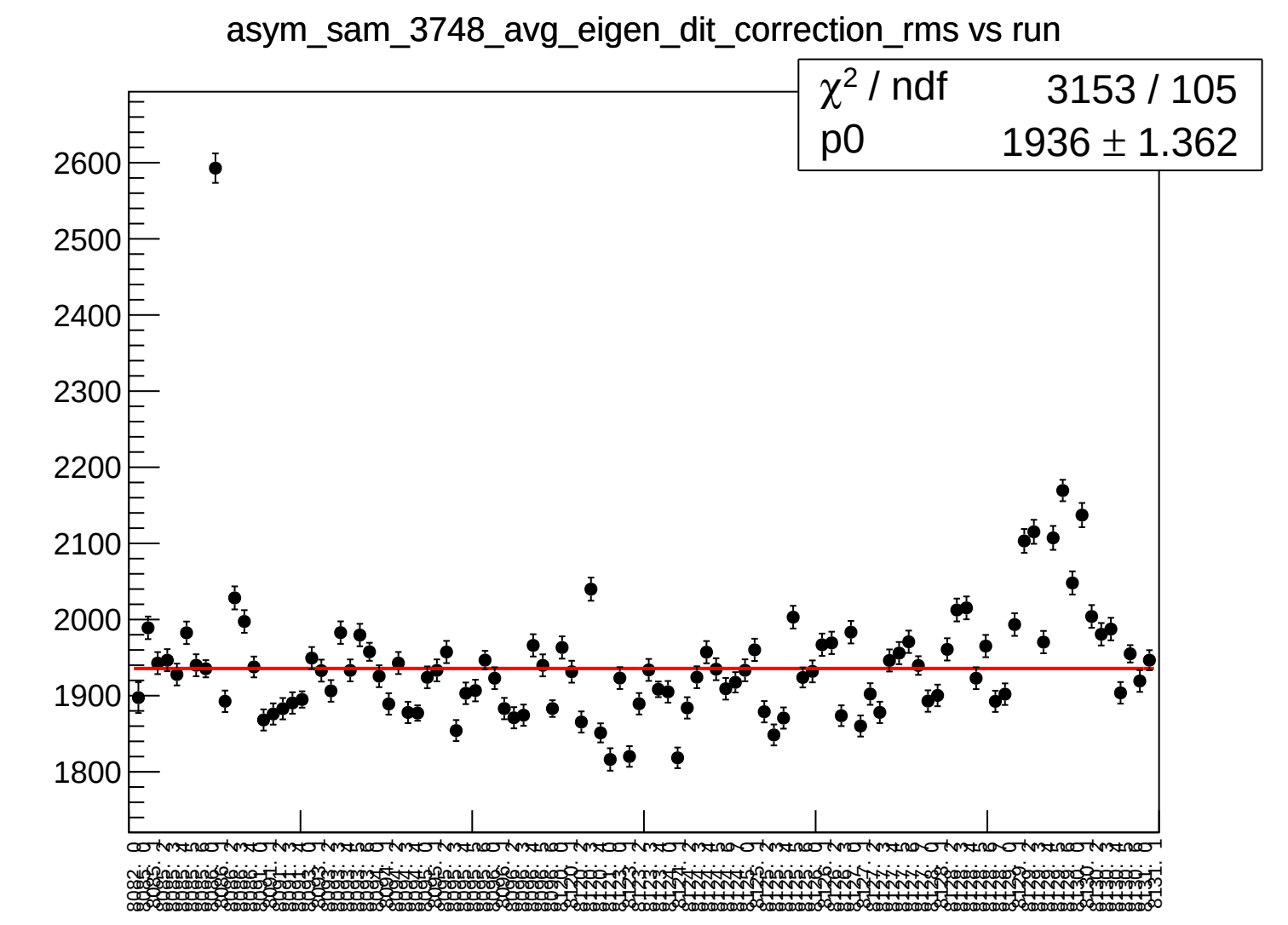

eigen_dit_asym_sam_3748_avg_mean vs run
χ² / ndf 101.4 / 104
p0 −82.71 ± 156.4
pull
Entries 105
Mean −230.3
Std Dev 0

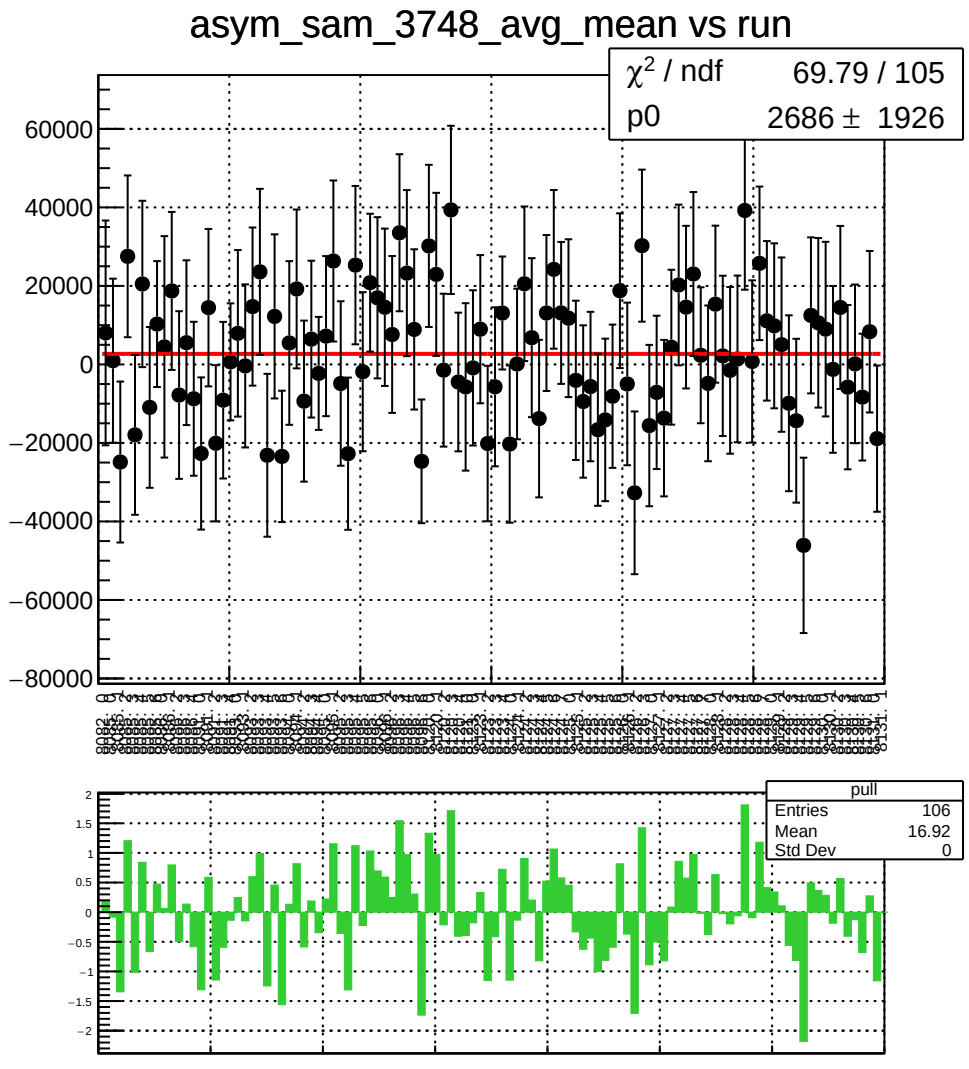

pull1D
Entries 105
Mean 0.0196
Std Dev 0.9824

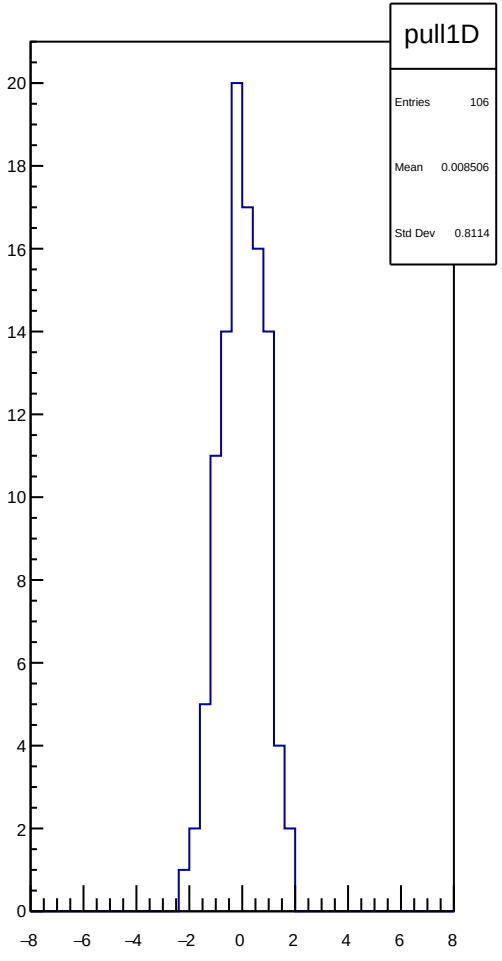

eigen_dit_asym_sam_3748_avg_rms vs run
χ² / ndf 3.008e+04 / 104
p0 155.8 ± 0.1106
320
300
280
260
240
220
200
180
160
140
120

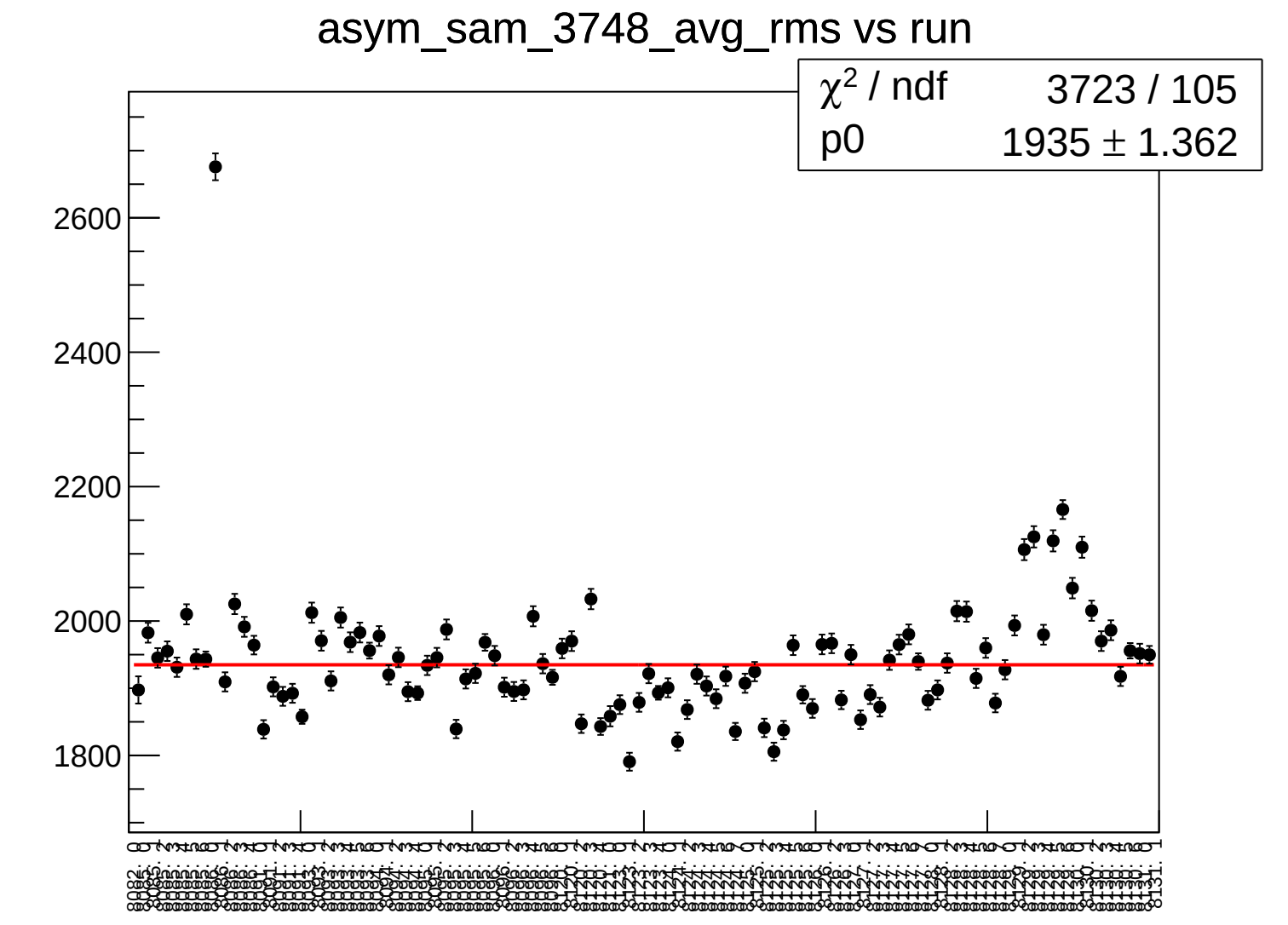

asym_sam_3748_avg_eigen_dit_correction_mean vs run
χ² / ndf 69.24 / 105
p0 −2720 ± 1926
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean 75.68
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

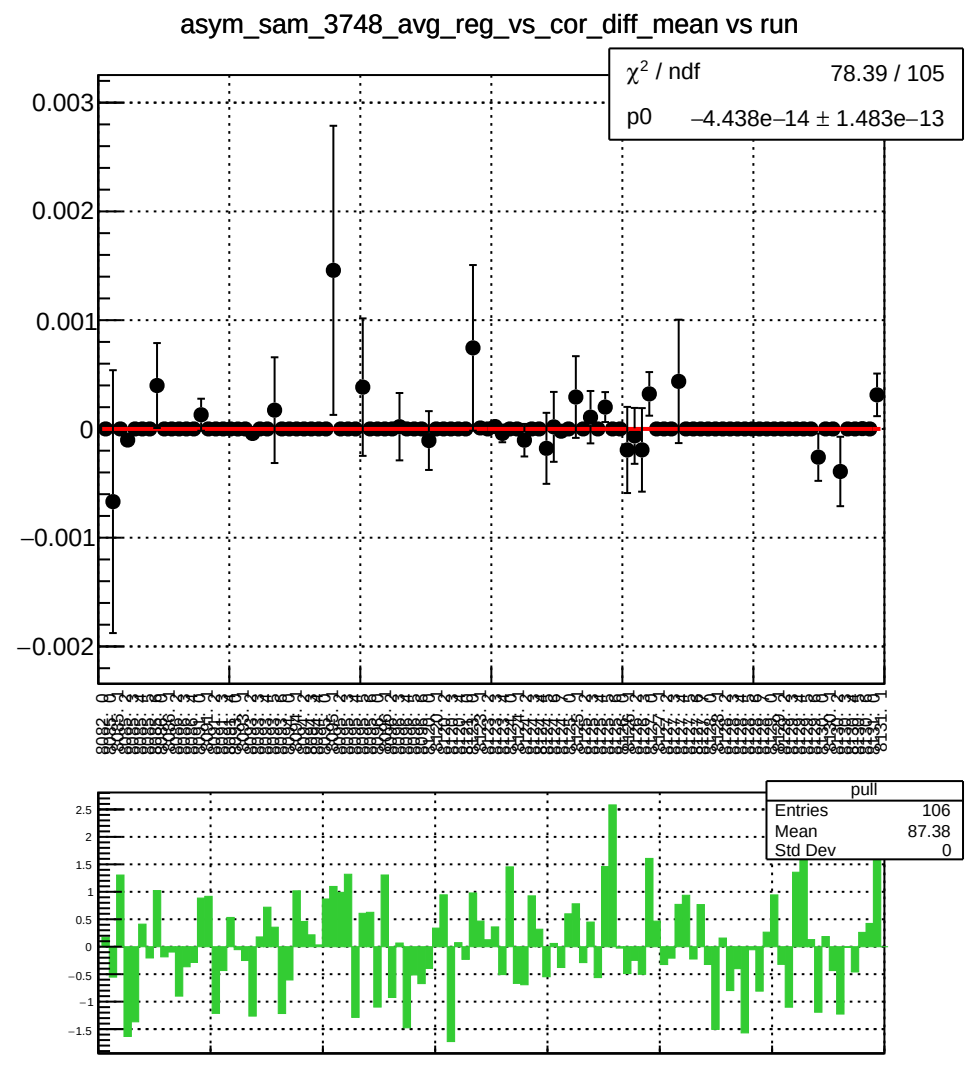

pull1D
Entries 106
Mean −0.007936
Std Dev 0.8082
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

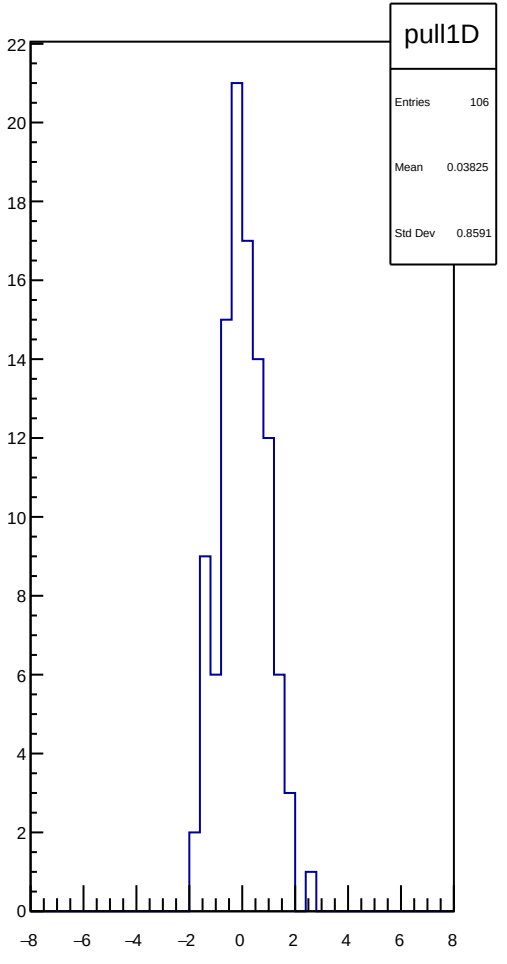

asym_sam_3748_avg_eigen_dit_correction_rms vs run
χ² / ndf 3153 / 105
p0 1936 ± 1.362
2600
2500
2400
2300
2200
2100
2000
1900
1800

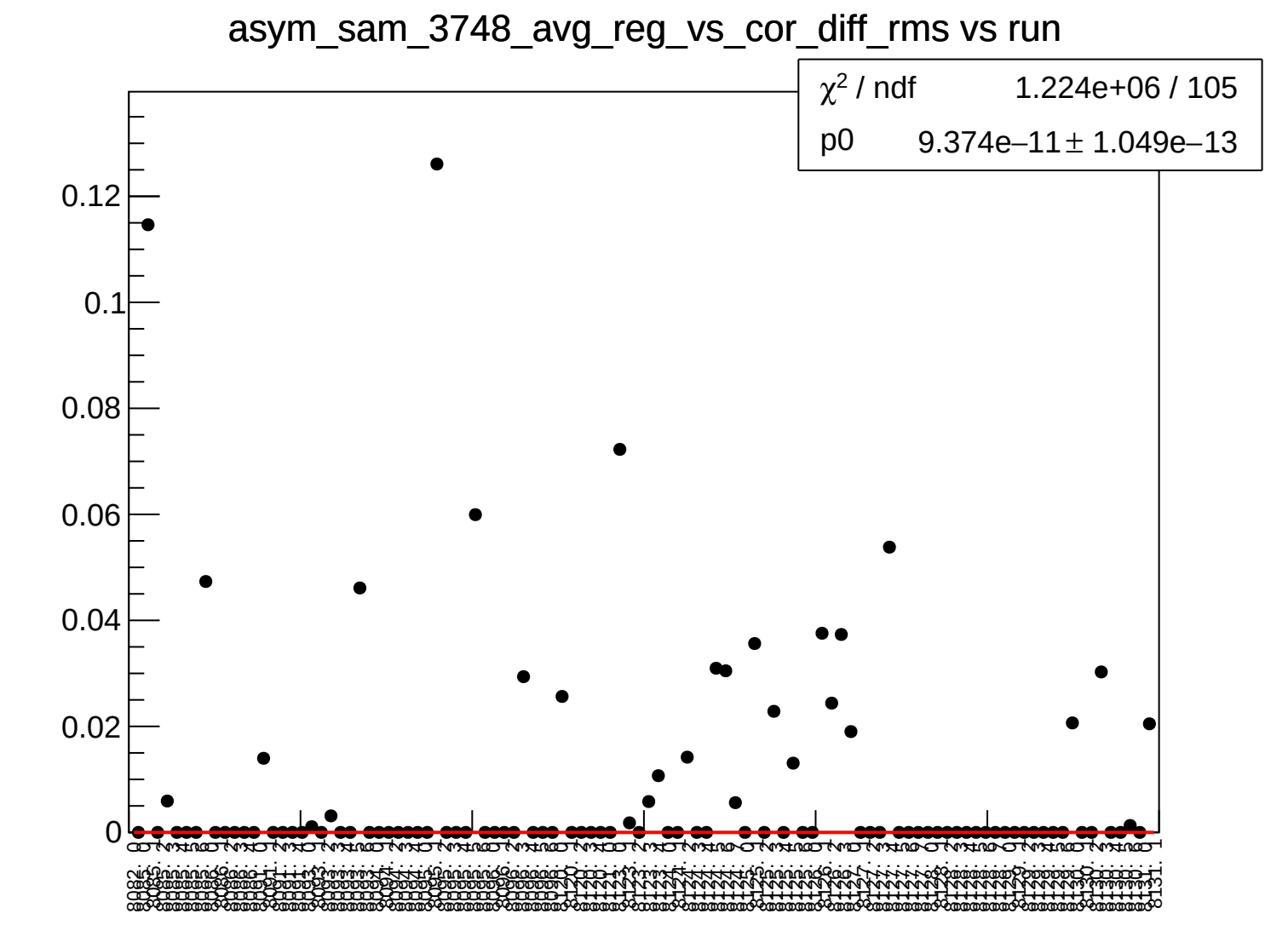

asym_sam_3748_avg_mean vs run
χ² / ndf 69.79 / 105
p0 2686 ± 1926
pull
Entries 106
Mean 16.92
Std Dev 0

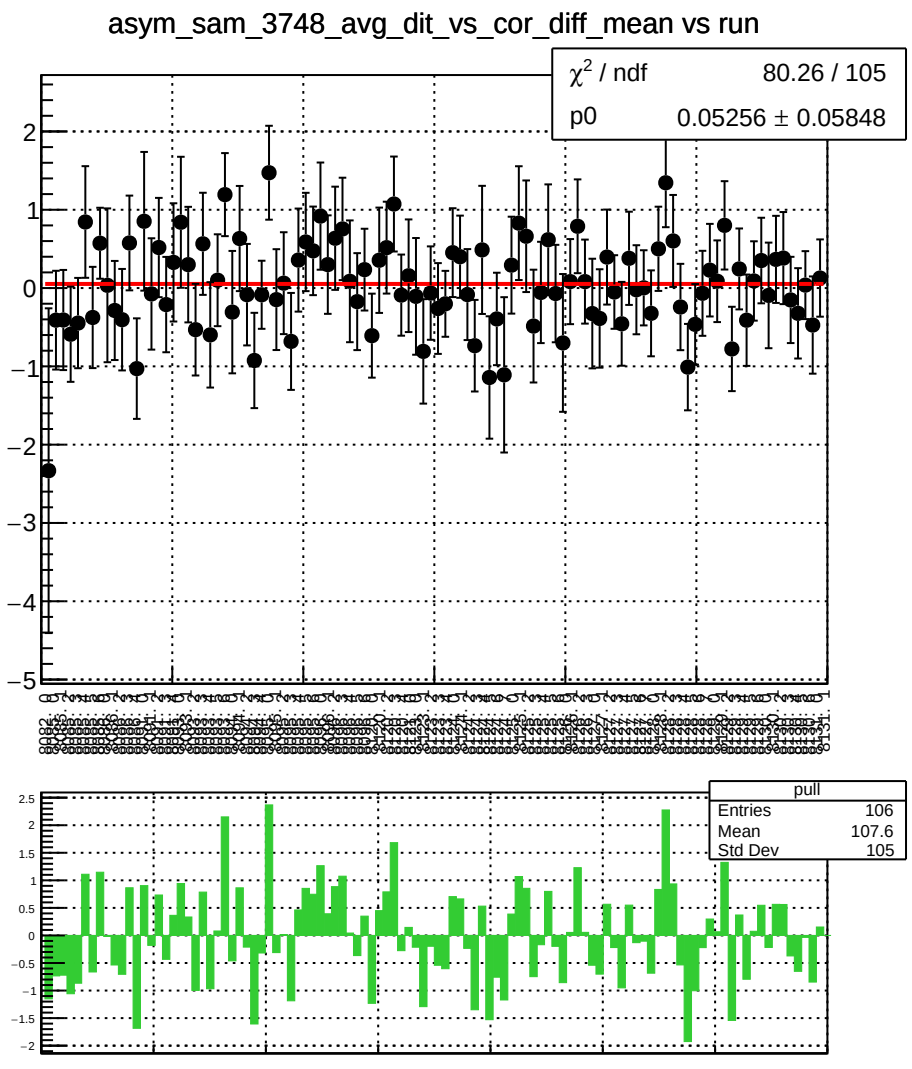

pull1D
Entries 106
Mean 0.008506
Std Dev 0.8114

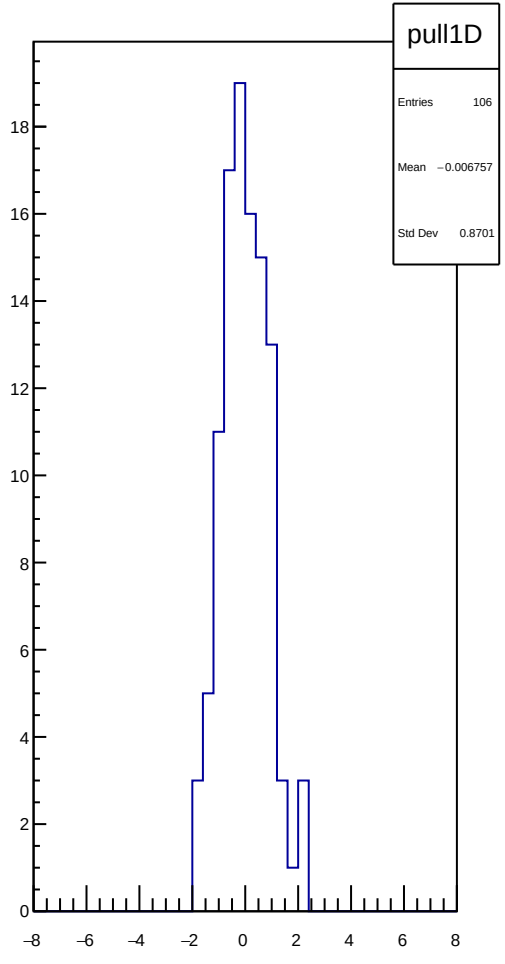

asym_sam_3748_avg_rms vs run
$\chi^2$ / ndf 3723 / 105
p0 1935 ± 1.362
2600
2400
2200
2000
1800

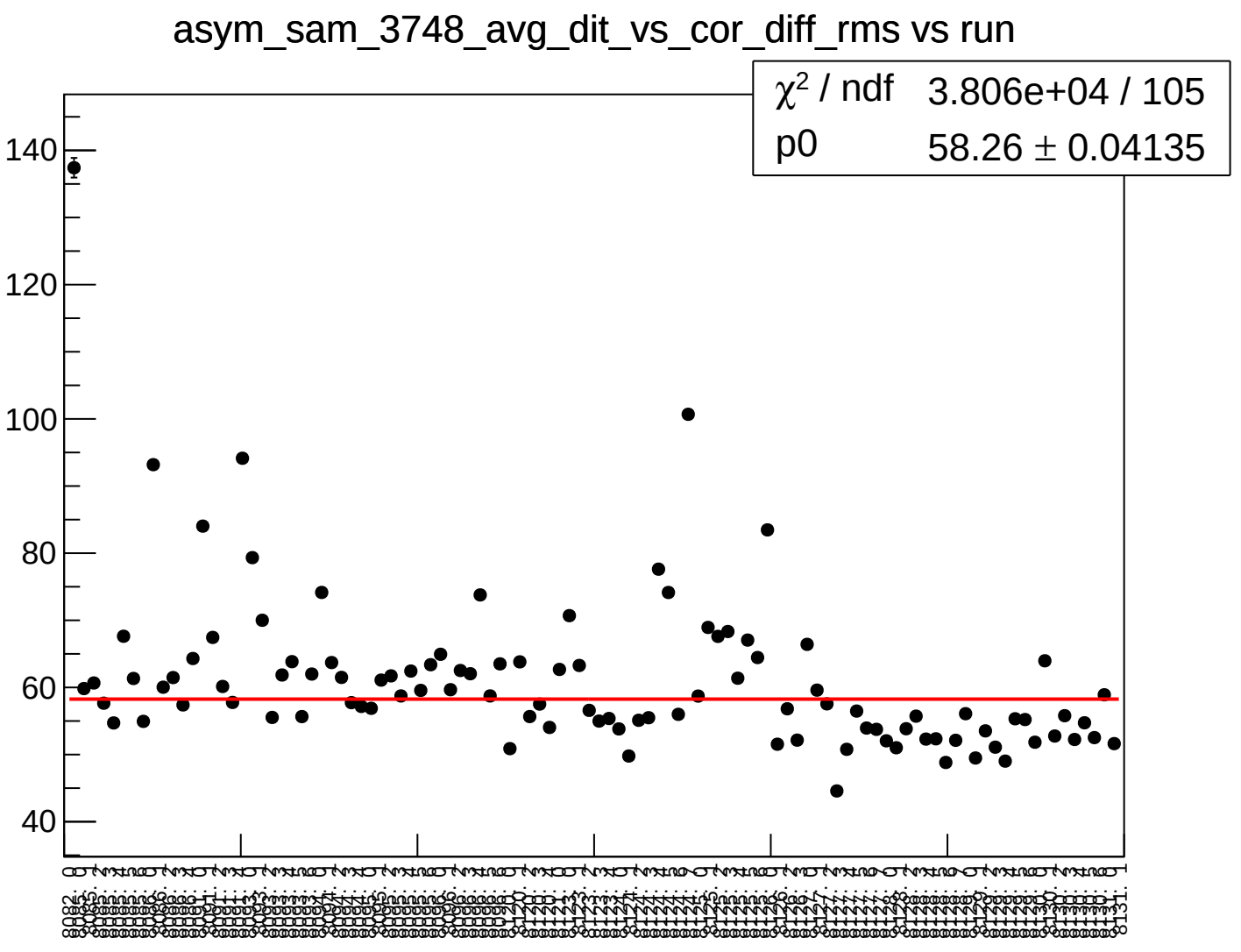

asym_sam_3748_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 78.39 / 105
p0 −4.438e−14 ± 1.483e−13
0.003
0.002
0.001
0
−0.001
−0.002
pull
Entries 106
Mean 87.38
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

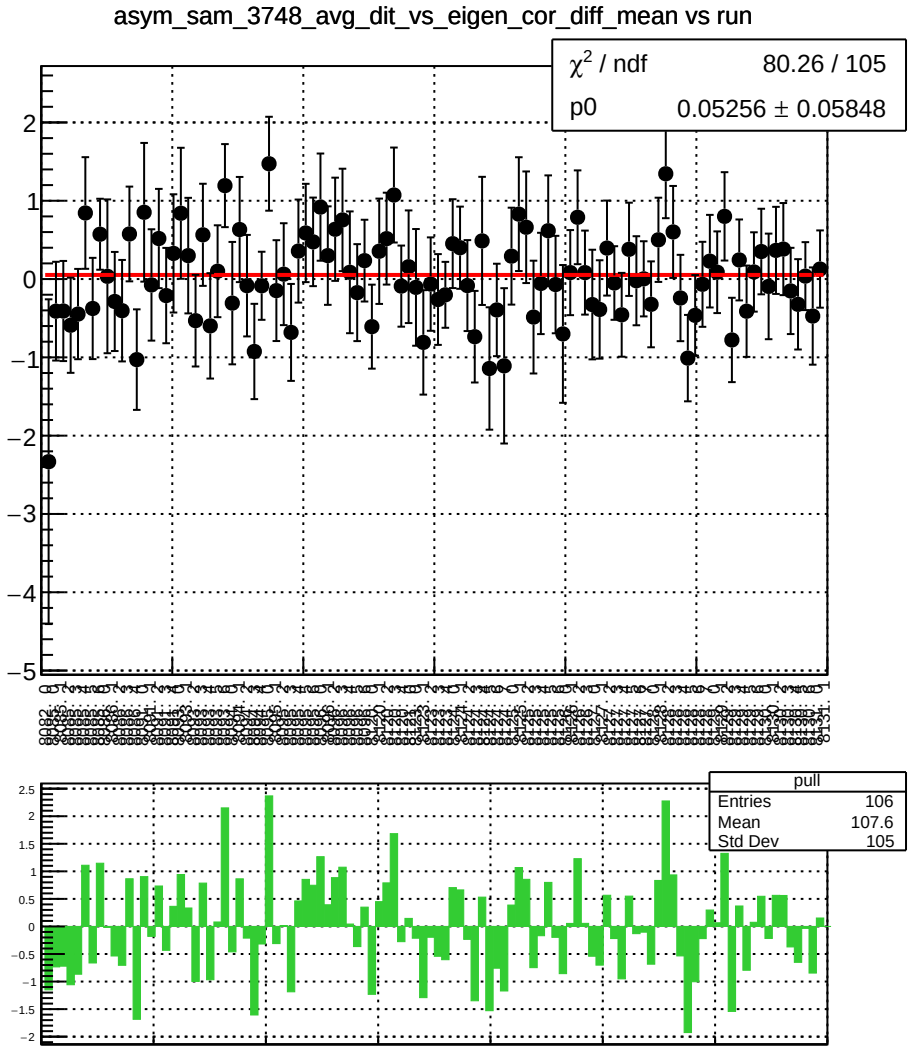

pull1D
Entries 106
Mean 0.03825
Std Dev 0.8591
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

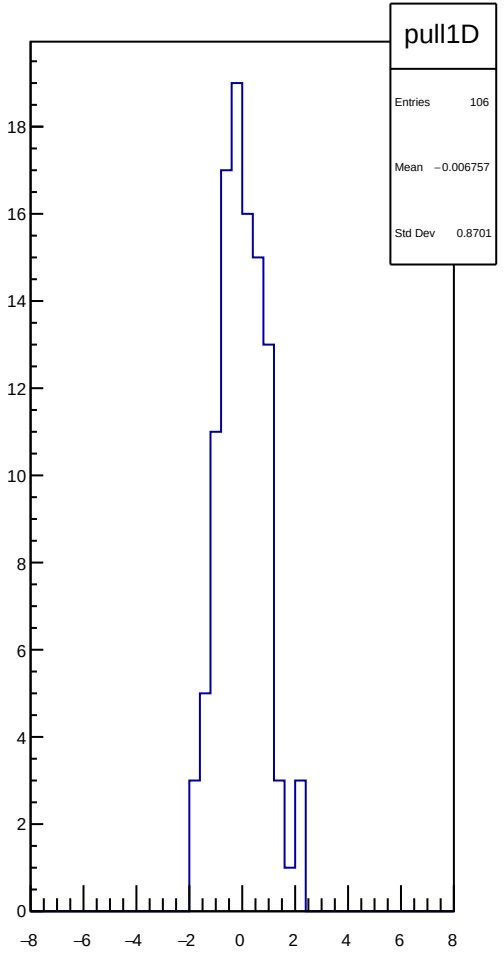

asym_sam_3748_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.224e+06 / 105
p0 9.374e−11 ± 1.049e−13
0.12
0.1
0.08
0.06
0.04
0.02
0

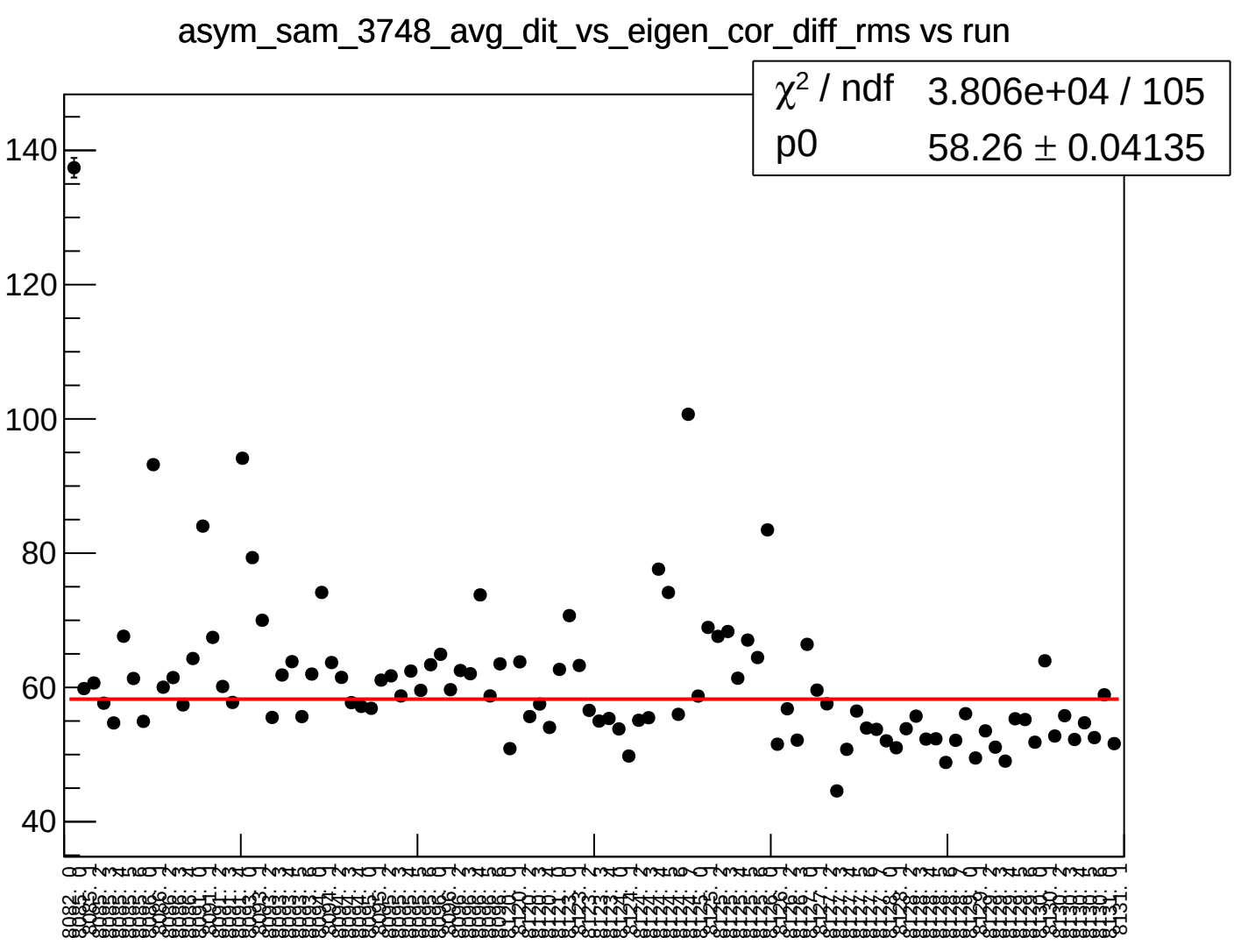

asym_sam_3748_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 80.26 / 105
p0 0.05256 ± 0.05848
pull
Entries 106
Mean 107.6
Std Dev 105

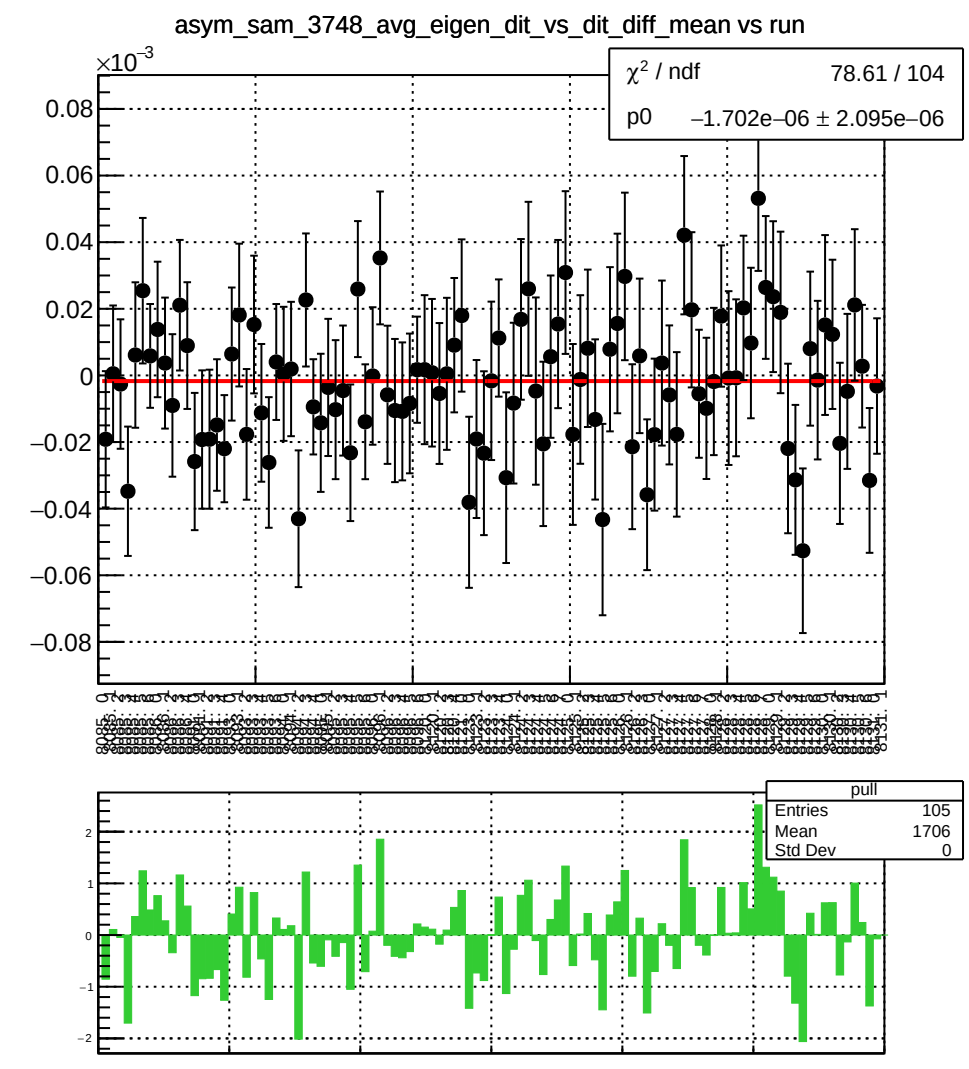

pull1D
Entries 106
Mean −0.006757
Std Dev 0.8701

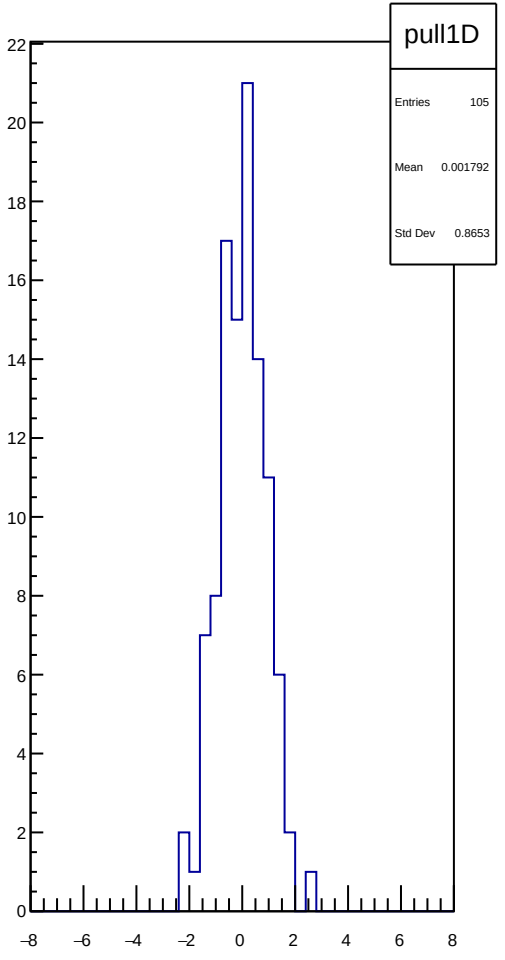

asym_sam_3748_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.806e+04 / 105
p0 58.26 ± 0.04135
140
120
100
80
60
40

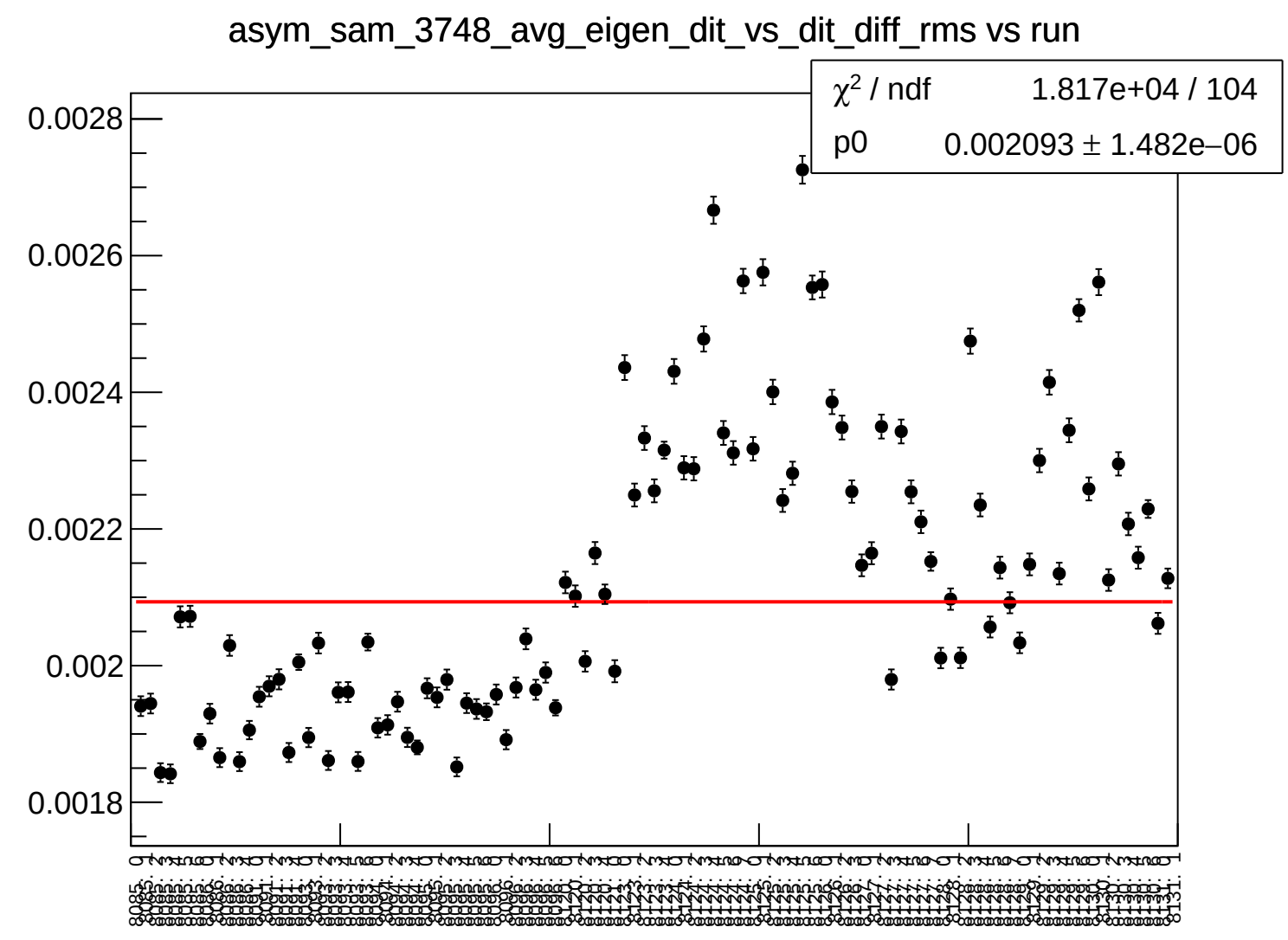

asym_sam_3748_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.26 / 105
p0 0.05256 ± 0.05848
pull
Entries 106
Mean 107.6
Std Dev 105

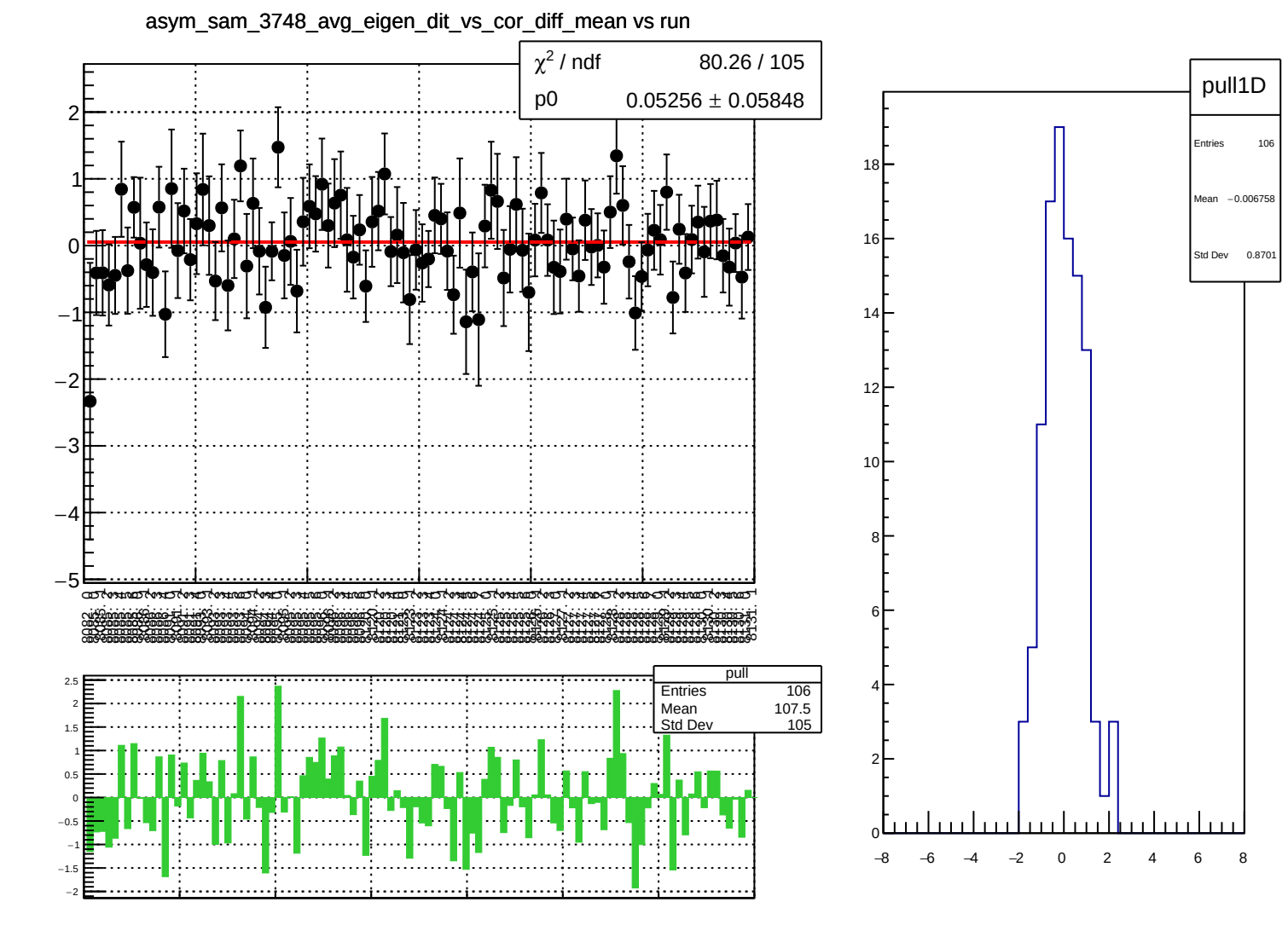

pull1D
Entries 106
Mean −0.006757
Std Dev 0.8701

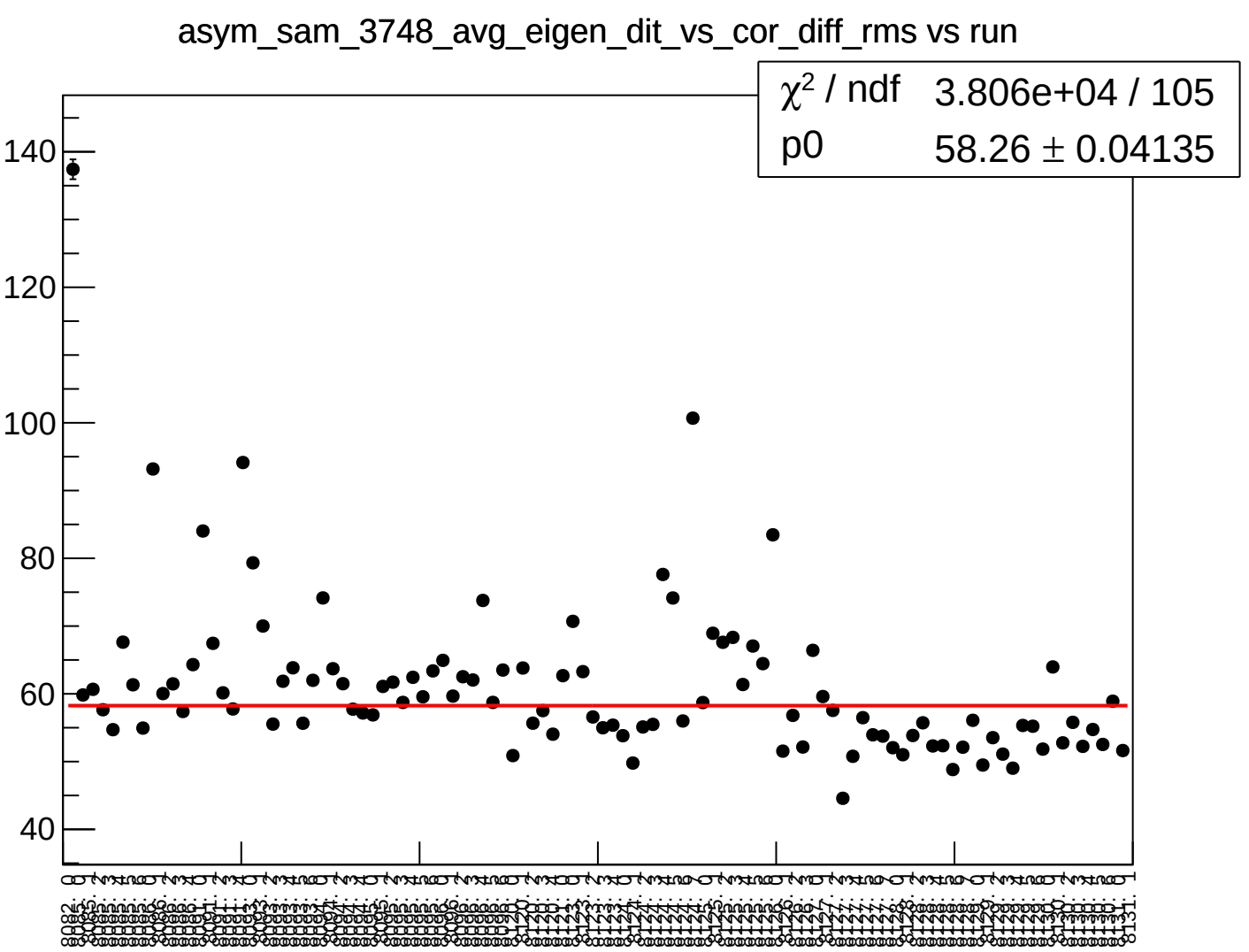

asym_sam_3748_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.806e+04 / 105
p0 58.26 ± 0.04135
140
120
100
80
60
40

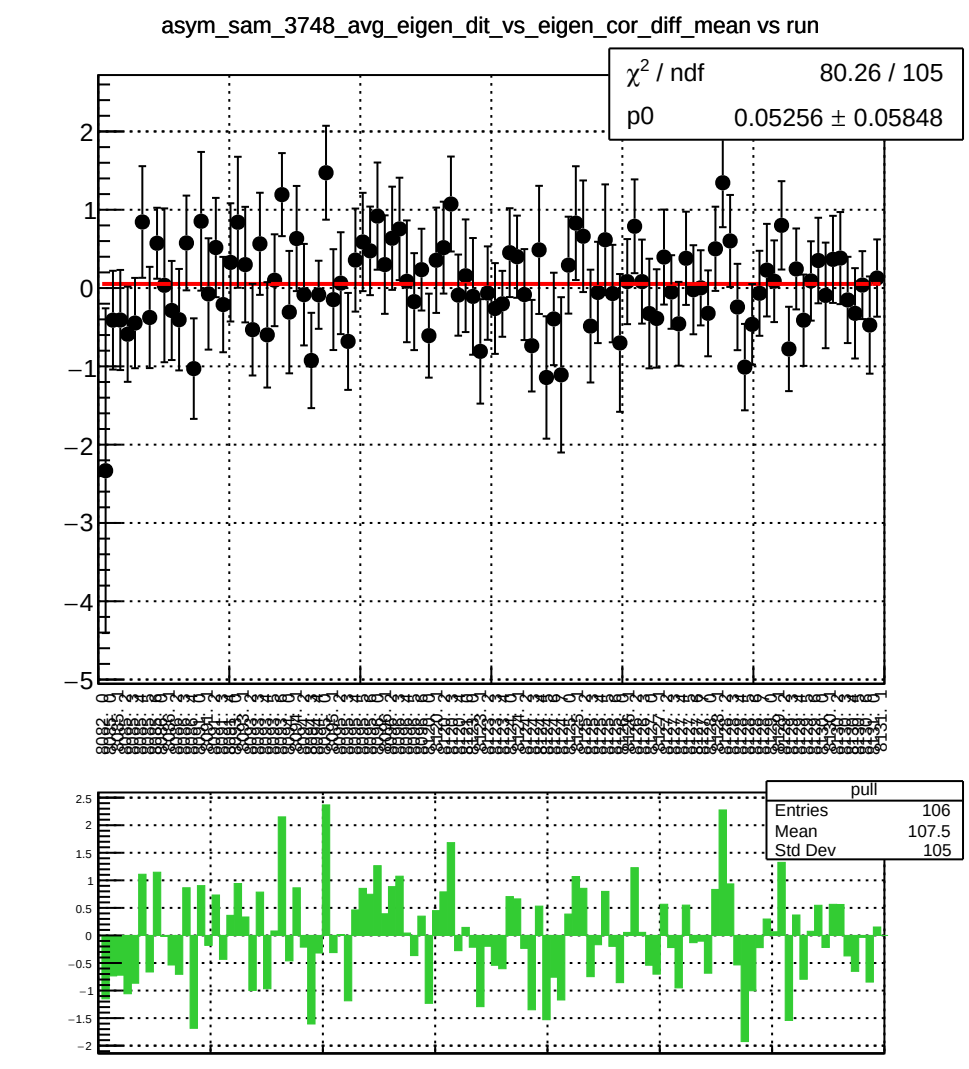

asym_sam_3748_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 78.61 / 104
p0 −1.702e−06 ± 2.095e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 105
Mean 1706
Std Dev 0
2
1
0
−1
−2

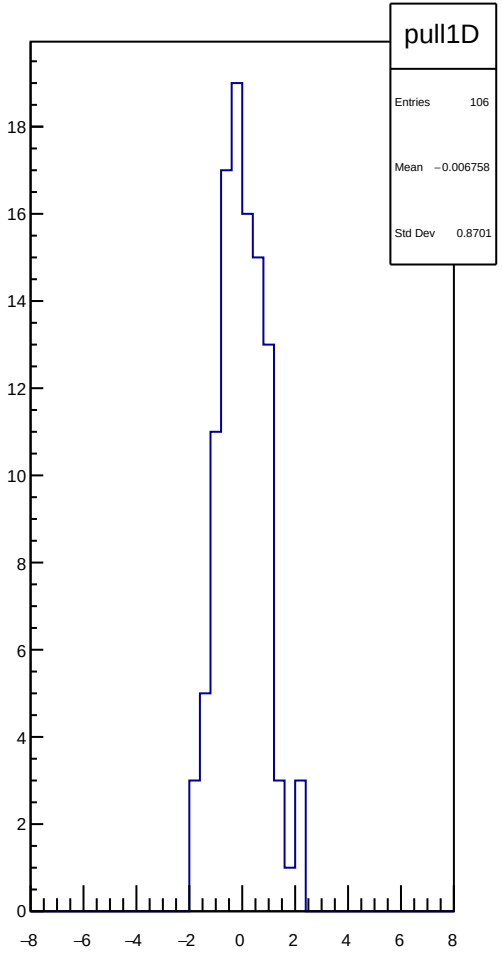

pull1D
Entries 105
Mean 0.001792
Std Dev 0.8653
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

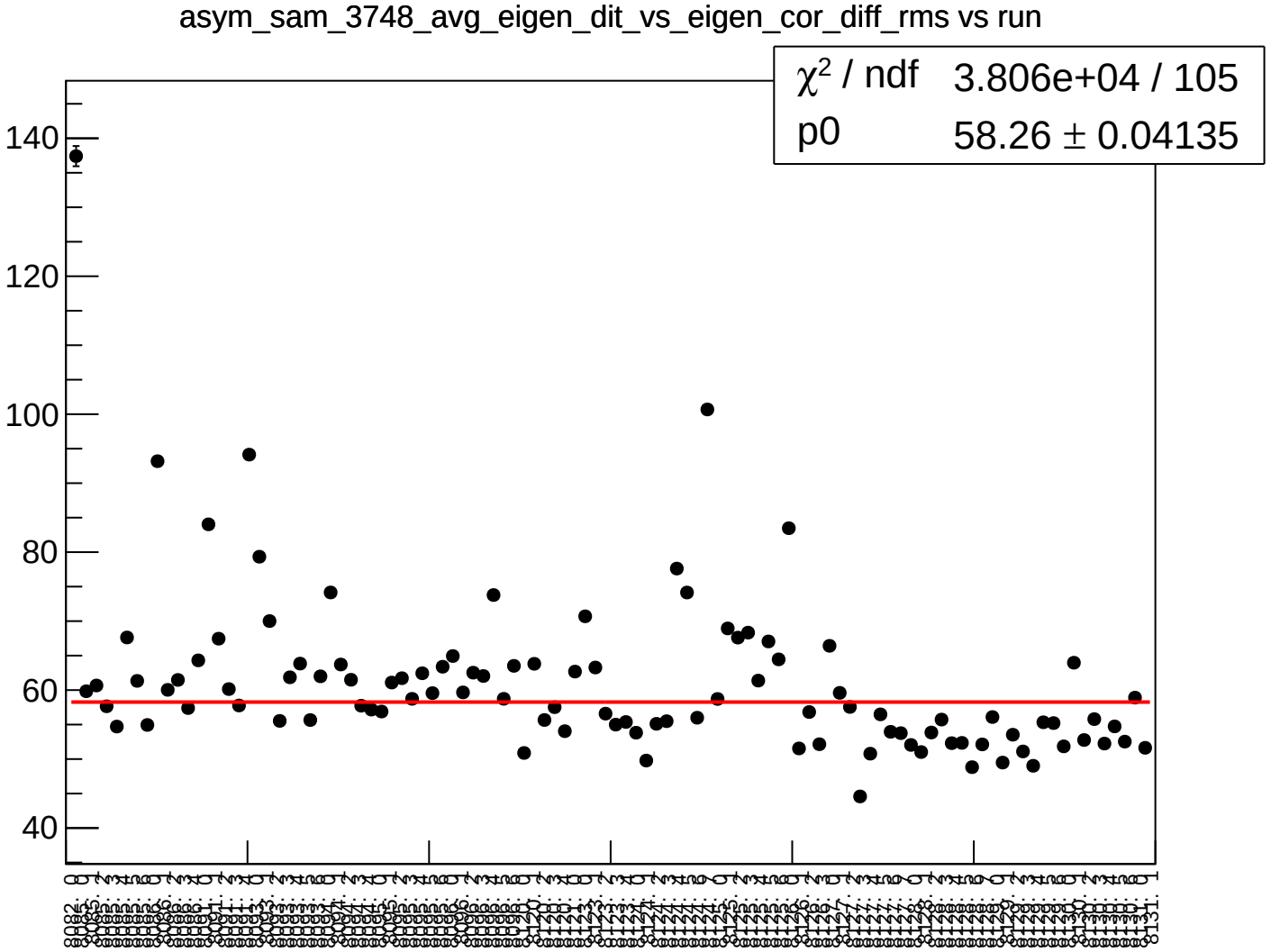

asym_sam_3748_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.817e+04 / 104
p0 0.002093 ± 1.482e−06
0.0028
0.0026
0.0024
0.0022
0.002
0.0018

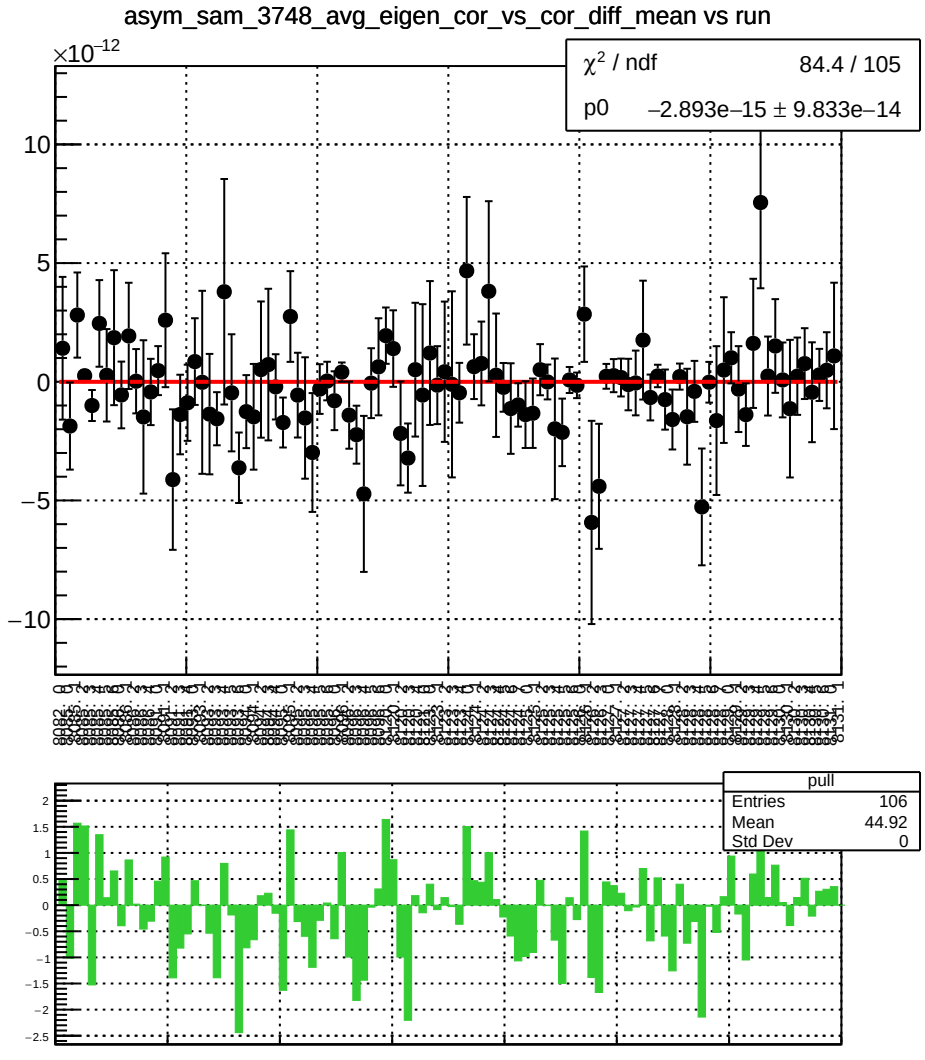

asym_sam_3748_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.26 / 105
p0 0.05256 ± 0.05848
pull
Entries 106
Mean 107.5
Std Dev 105
pull1D
Entries 106
Mean −0.006758
Std Dev 0.8701

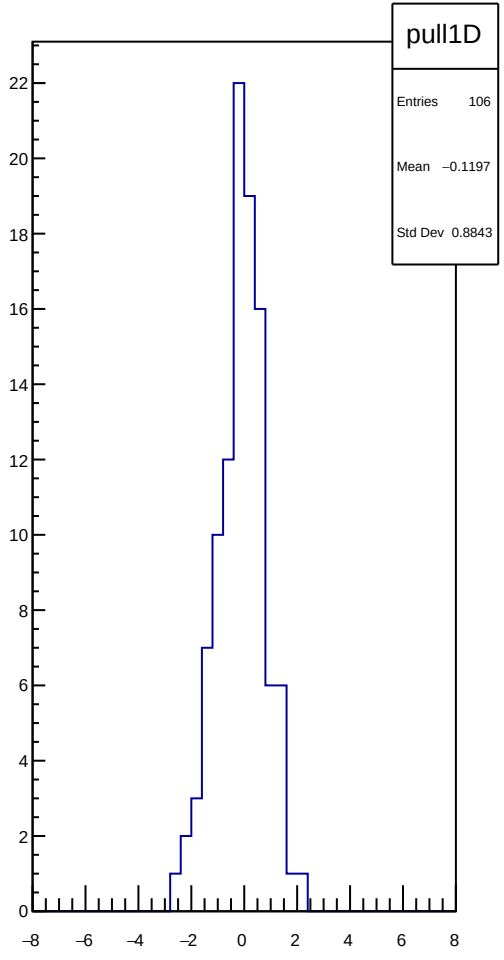

asym_sam_3748_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.806e+04 / 105
p0 58.26 ± 0.04135
140
120
100
80
60
40

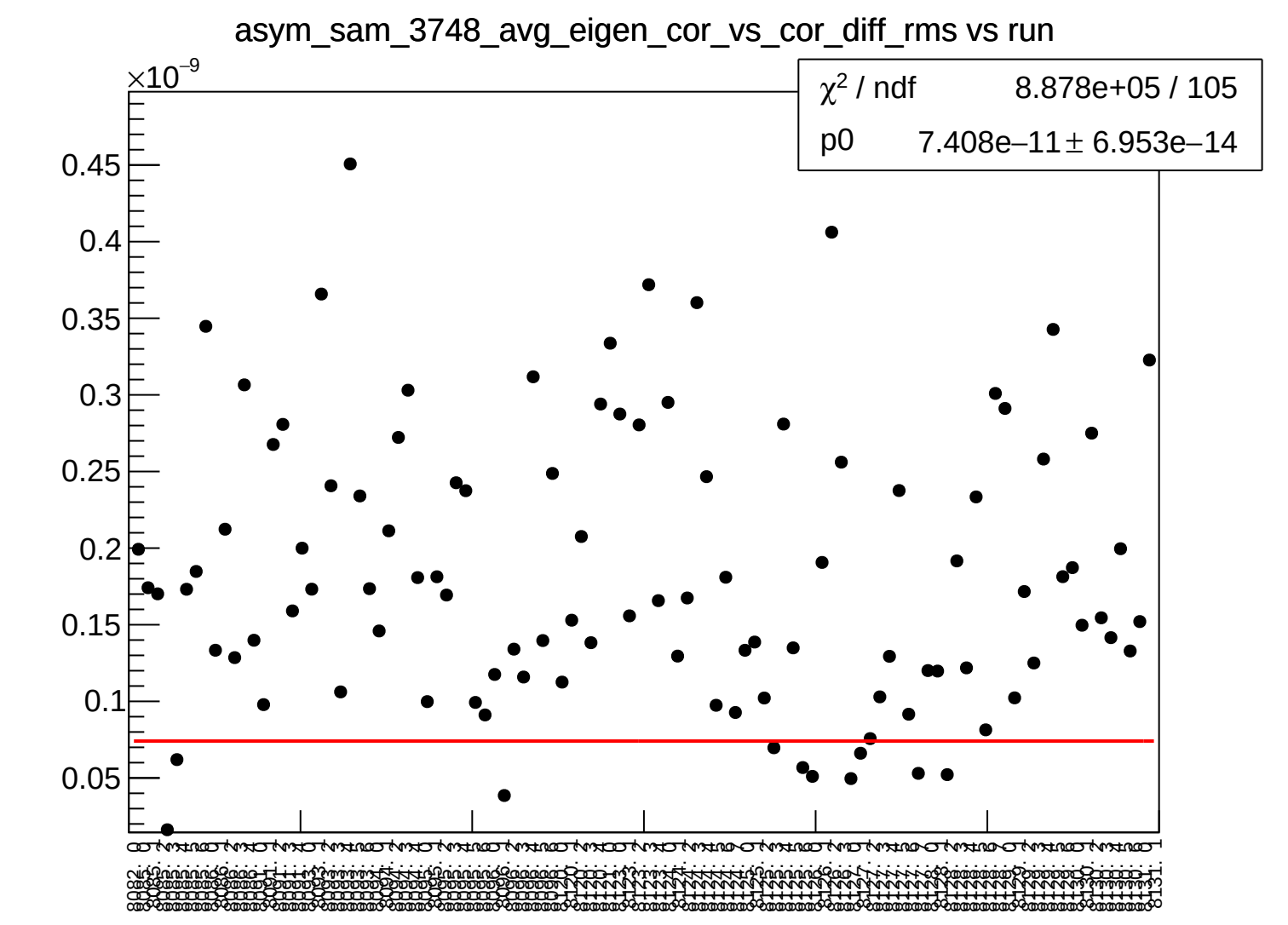

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.26 / 105
p0 0.05256 ± 0.05848
pull
Entries 106
Mean 107.5
Std Dev 105

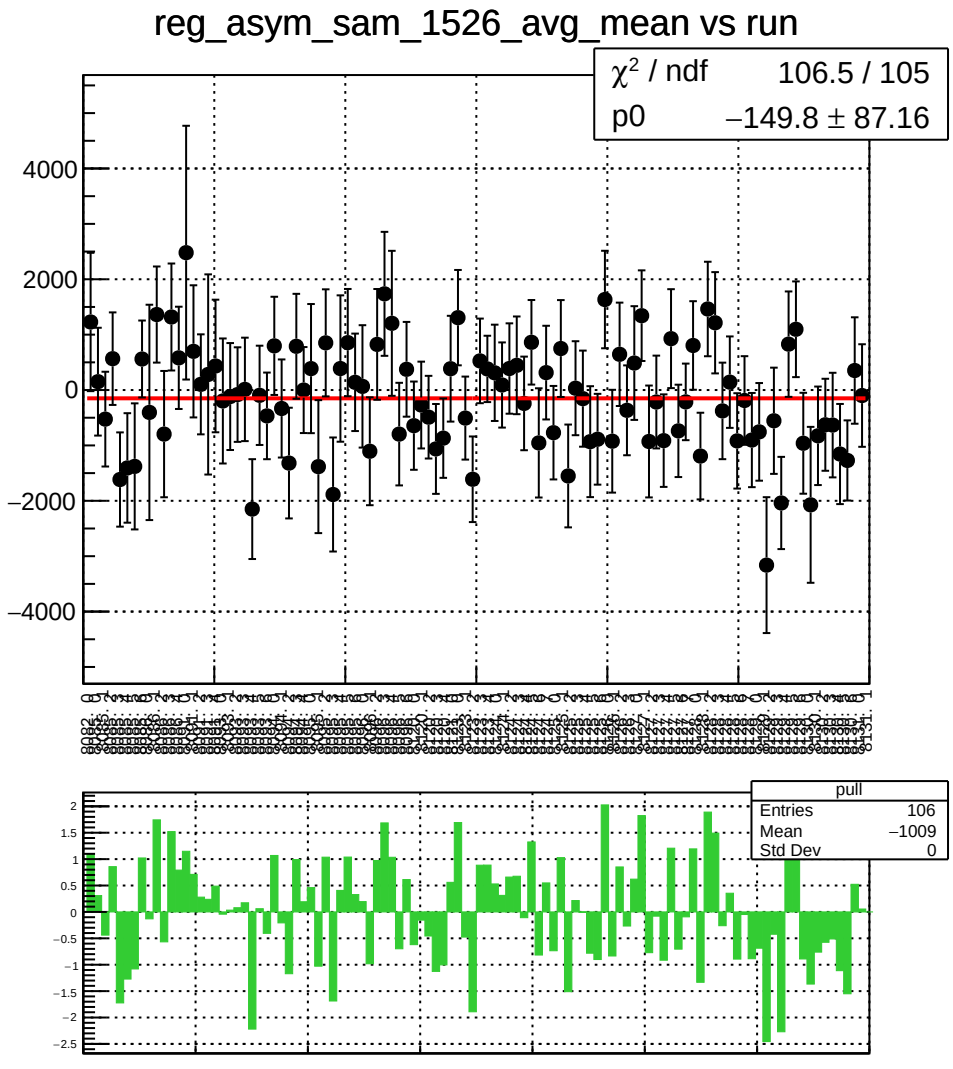

pull1D
Entries 106
Mean −0.006758
Std Dev 0.8701

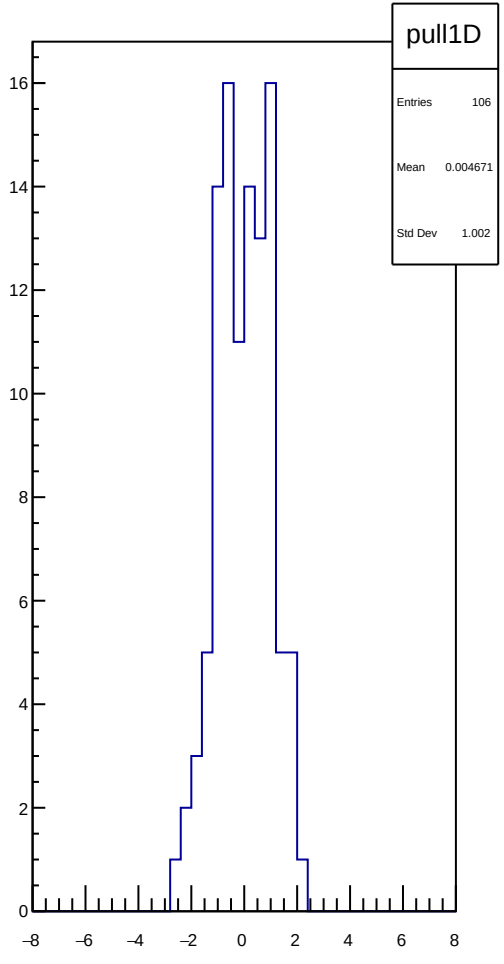

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.806e+04 / 105
p0 58.26 ± 0.04135
140
120
100
80
60
40

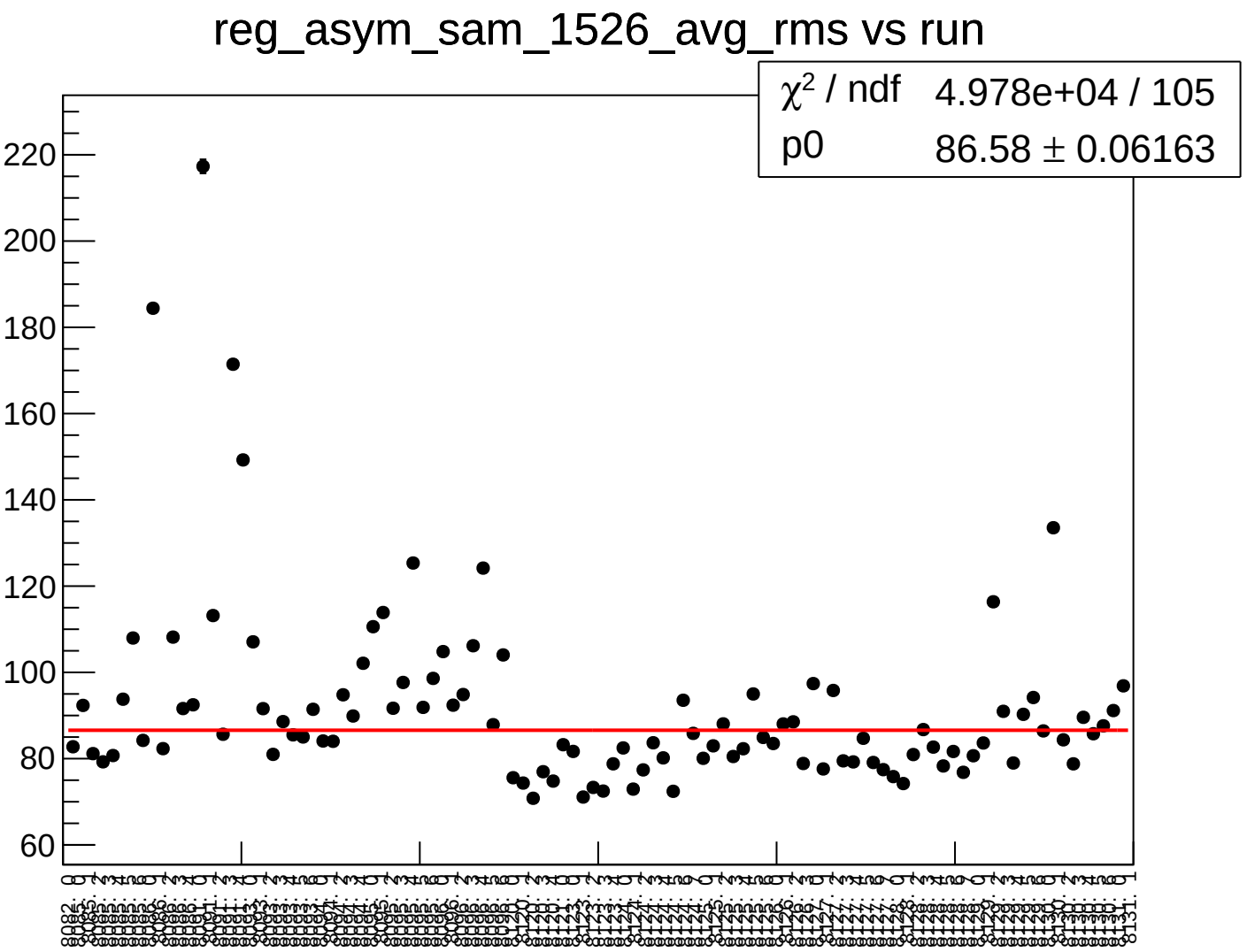

asym_sam_3748_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 84.4 / 105
p0 −2.893e−15 ± 9.833e−14
pull
Entries 106
Mean 44.92
Std Dev 0

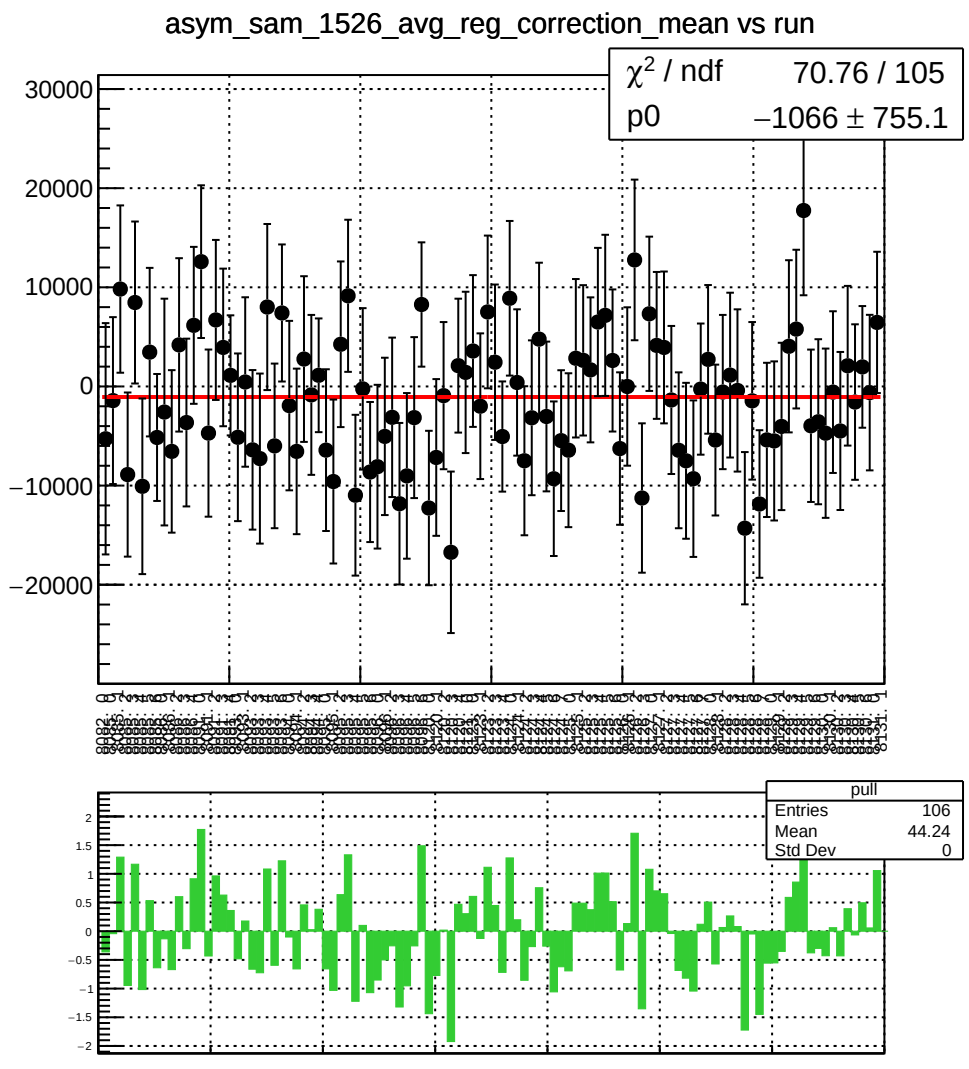

pull1D
Entries 106
Mean −0.1197
Std Dev 0.8843

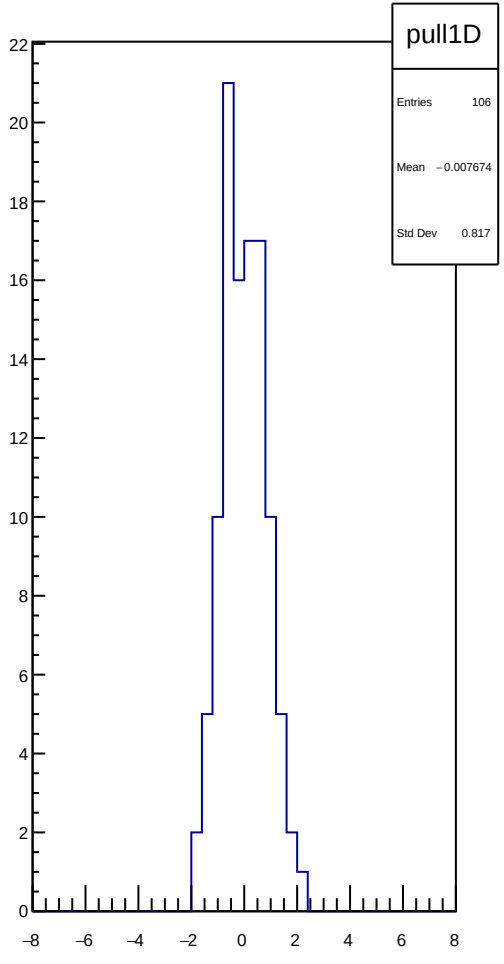

asym_sam_3748_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.878e+05 / 105
p0 7.408e−11 ± 6.953e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

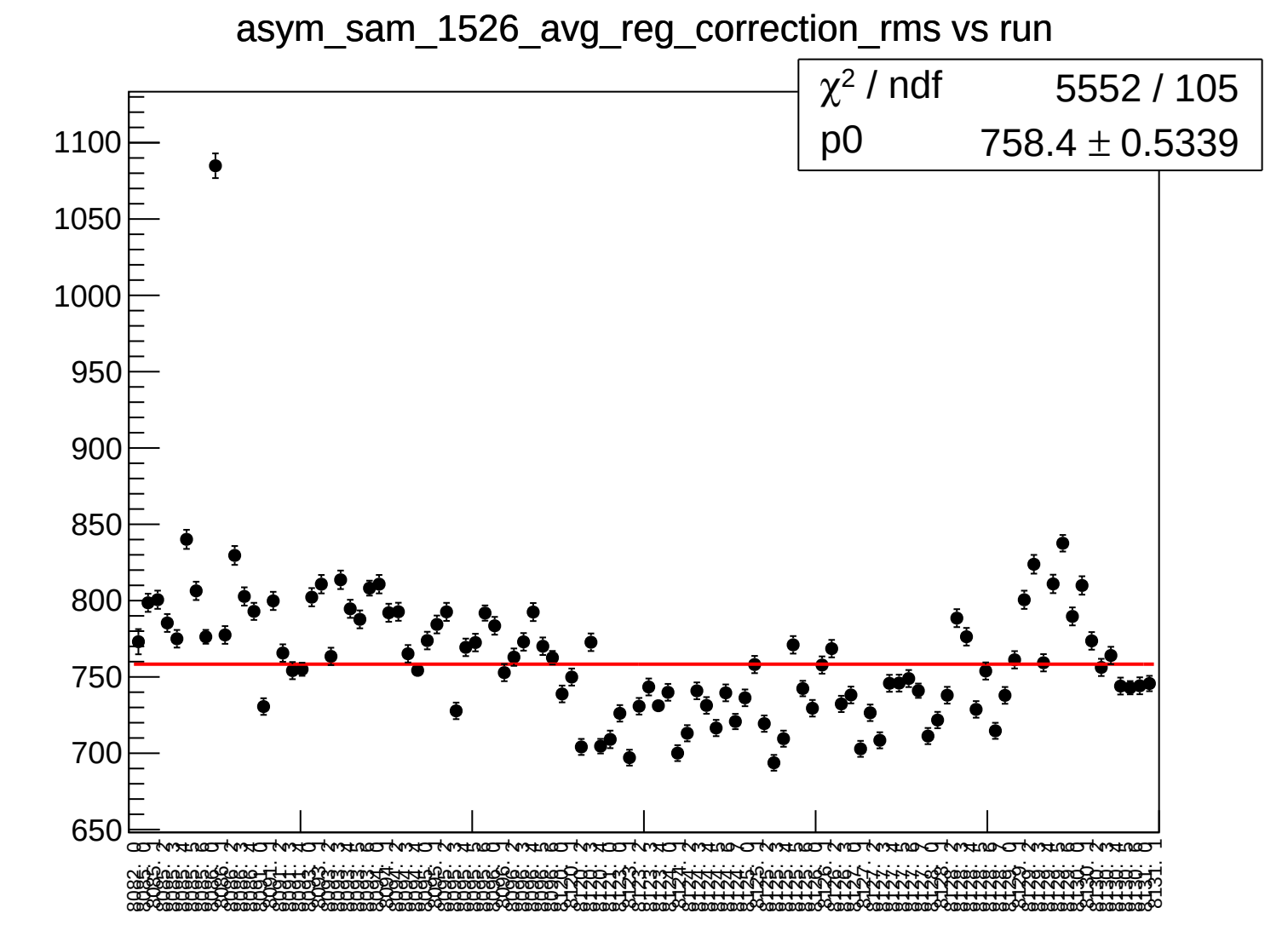

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 106.5 / 105
p0 −149.8 ± 87.16
4000
2000
0
−2000
−4000
pull
Entries 106
Mean −1009
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

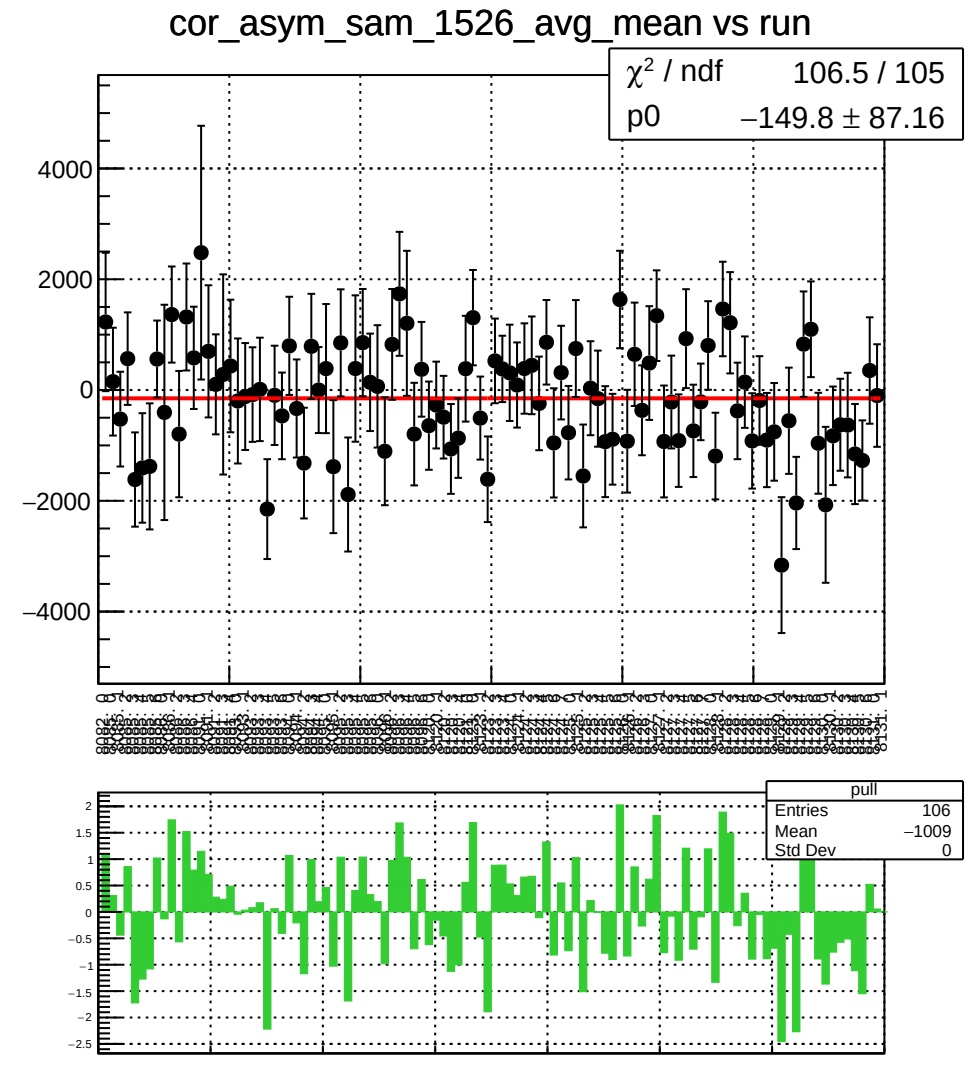

pull1D
Entries 106
Mean 0.004671
Std Dev 1.002
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

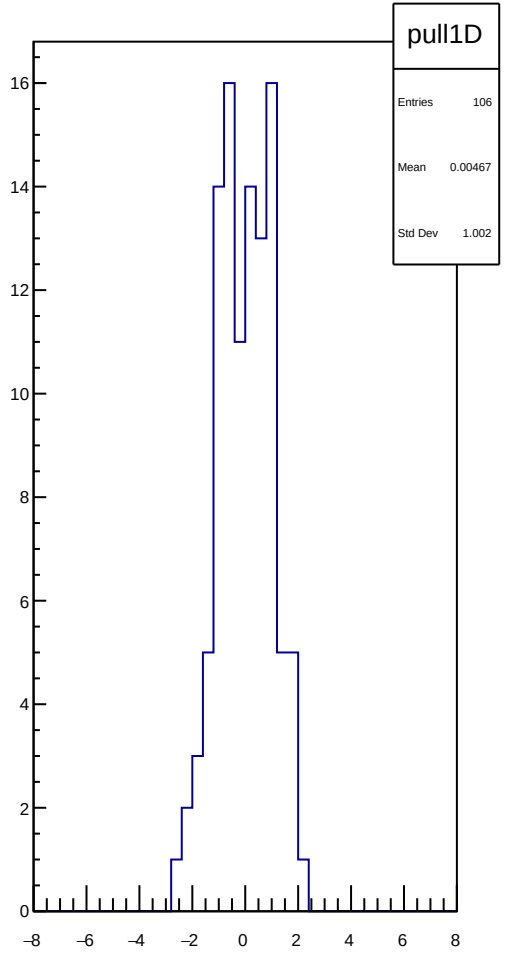

reg_asym_sam_1526_avg_rms vs run
$\chi^2$ / ndf 4.978e+04 / 105
p0 86.58 ± 0.06163
220
200
180
160
140
120
100
80
60

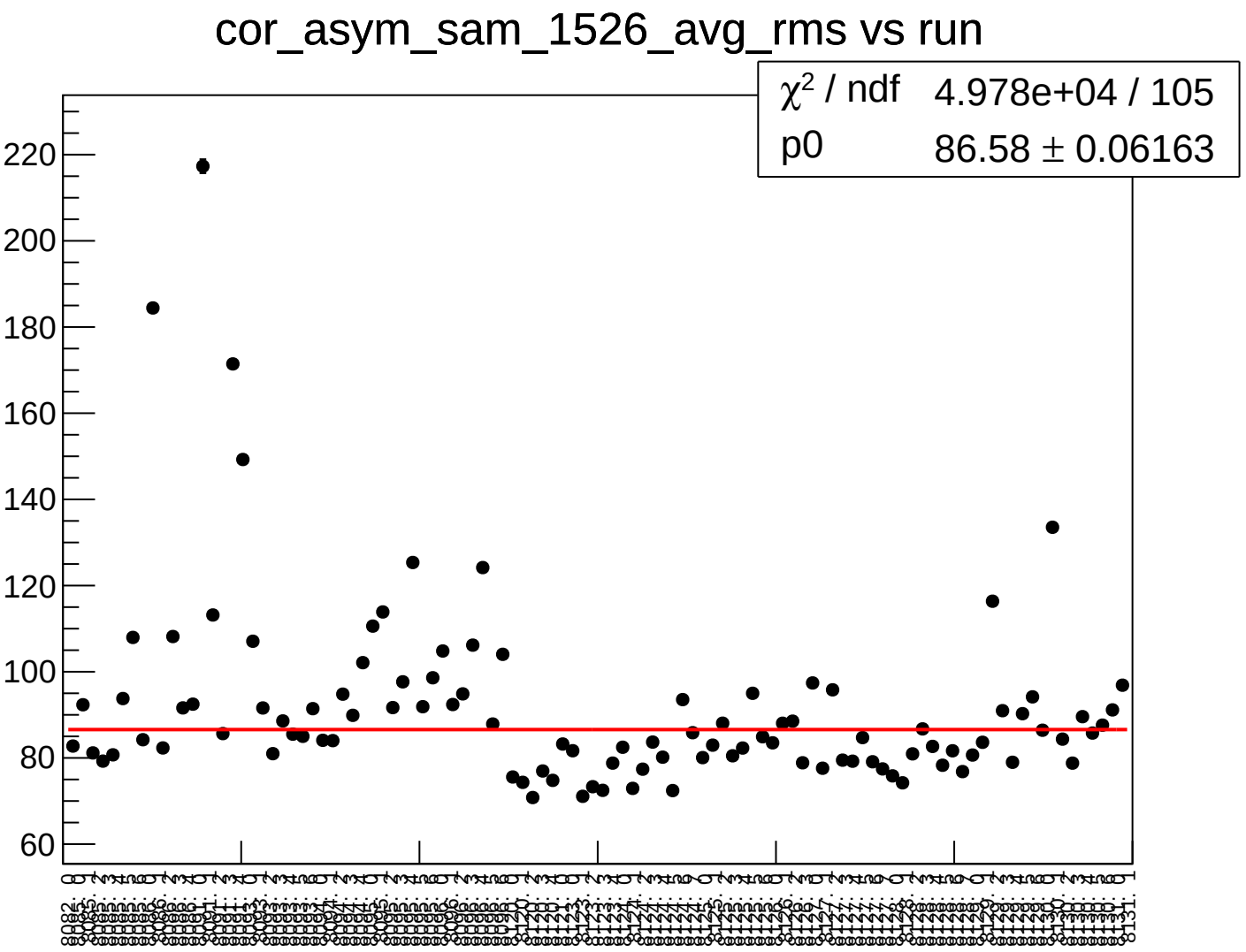

asym_sam_1526_avg_reg_correction_mean vs run
χ² / ndf 70.76 / 105
p0 −1066 ± 755.1
30000
20000
10000
0
−10000
−20000
pull
Entries 106
Mean 44.24
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

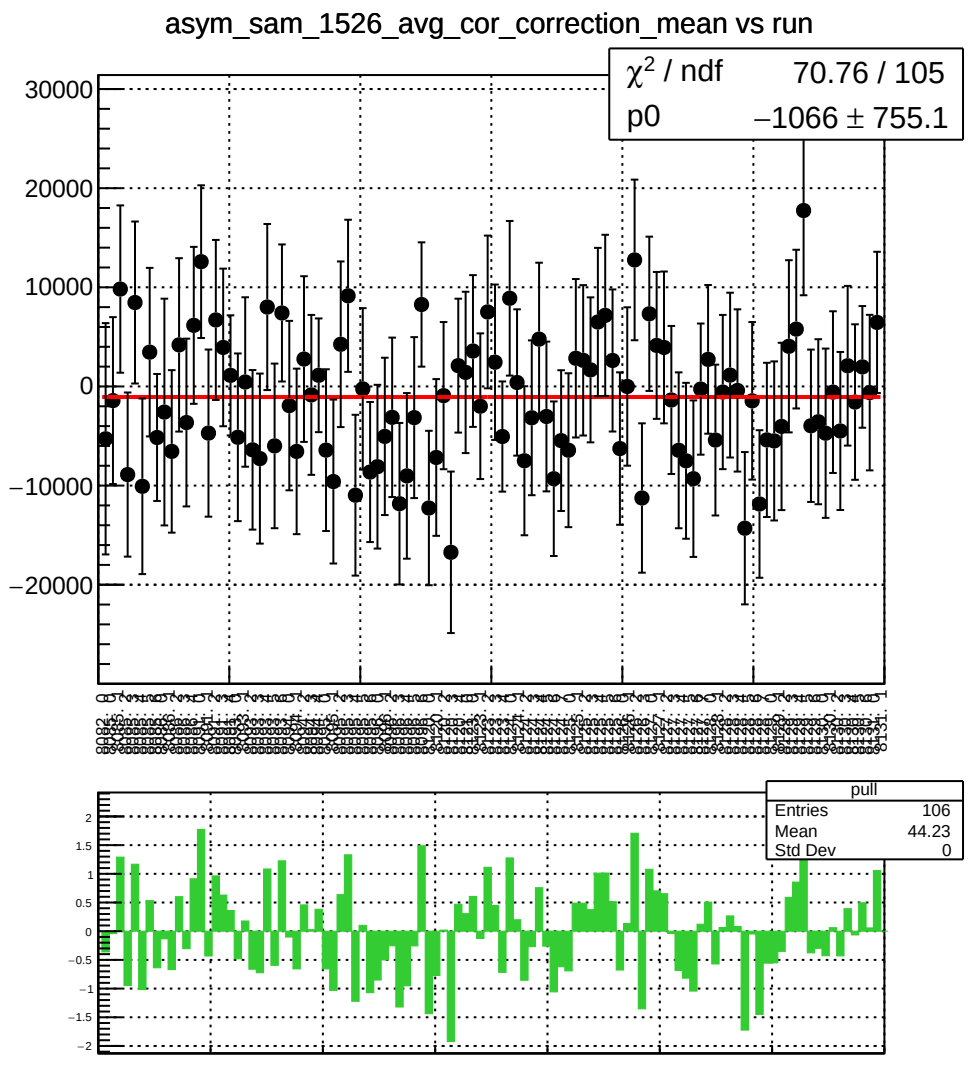

pull1D
Entries 106
Mean −0.007674
Std Dev 0.817
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

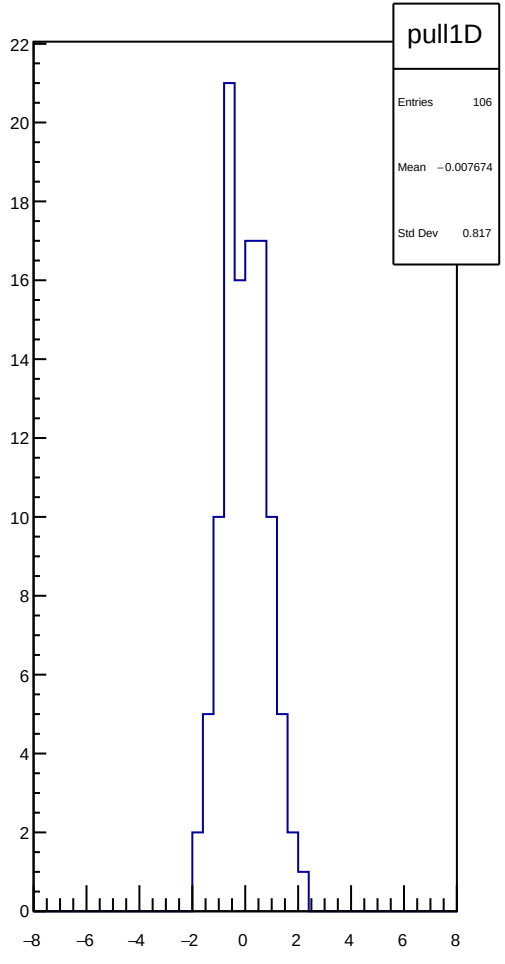

asym_sam_1526_avg_reg_correction_rms vs run
χ² / ndf 5552 / 105
p0 758.4 ± 0.5339
1100
1050
1000
950
900
850
800
750
700
650

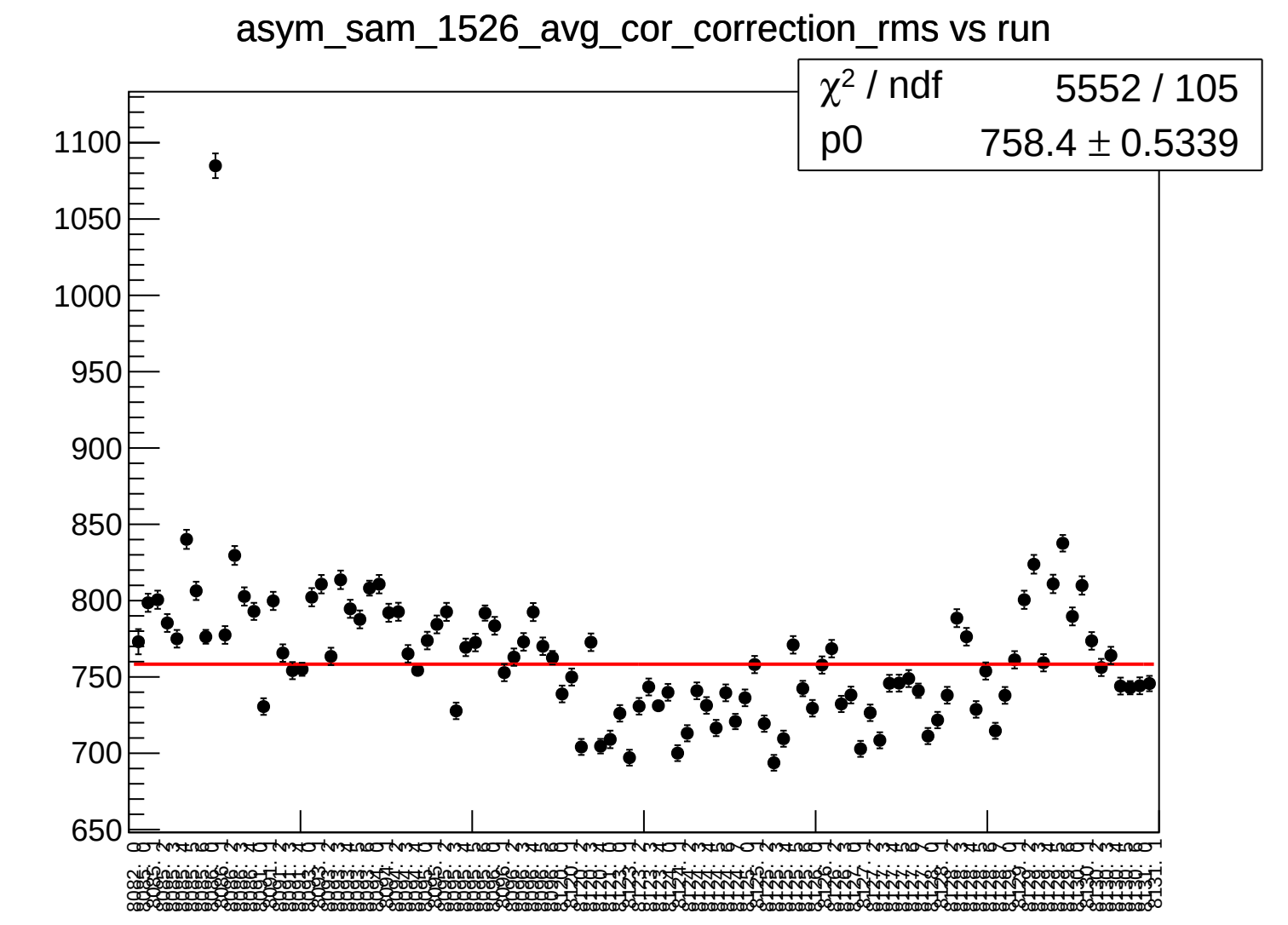

cor_asym_sam_1526_avg_mean vs run
χ² / ndf 106.5 / 105
p0 −149.8 ± 87.16
4000
2000
0
−2000
−4000
pull
Entries 106
Mean −1009
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

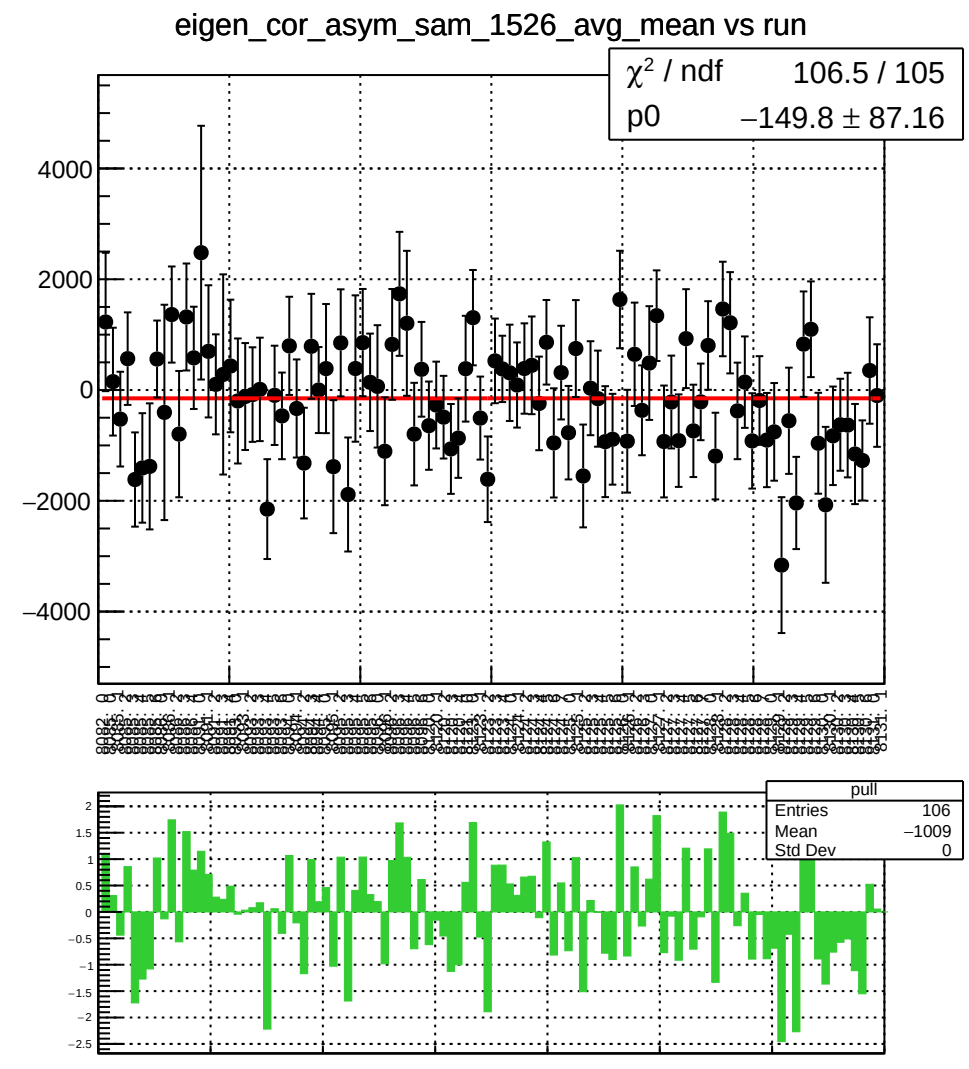

pull1D
Entries 106
Mean 0.00467
Std Dev 1.002
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

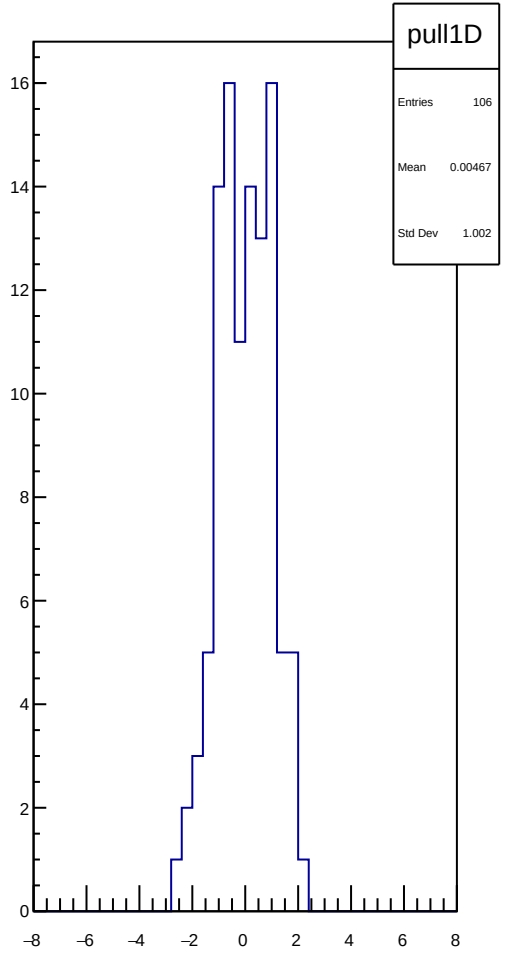

cor_asym_sam_1526_avg_rms vs run
χ² / ndf 4.978e+04 / 105
p0 86.58 ± 0.06163
220
200
180
160
140
120
100
80
60

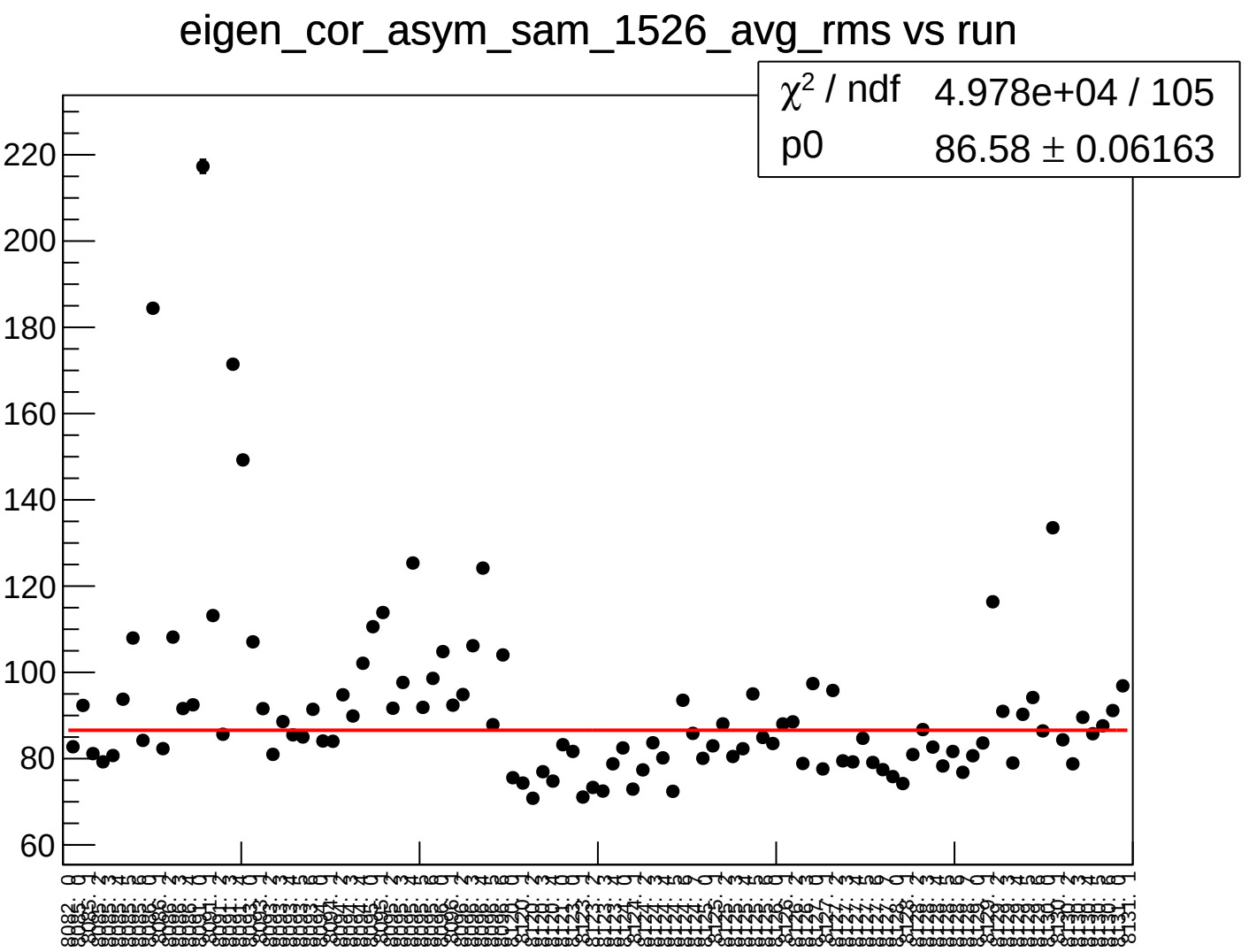

asym_sam_1526_avg_cor_correction_mean vs run
χ² / ndf 70.76 / 105
p0 −1066 ± 755.1
30000
20000
10000
0
−10000
−20000
pull
Entries 106
Mean 44.23
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

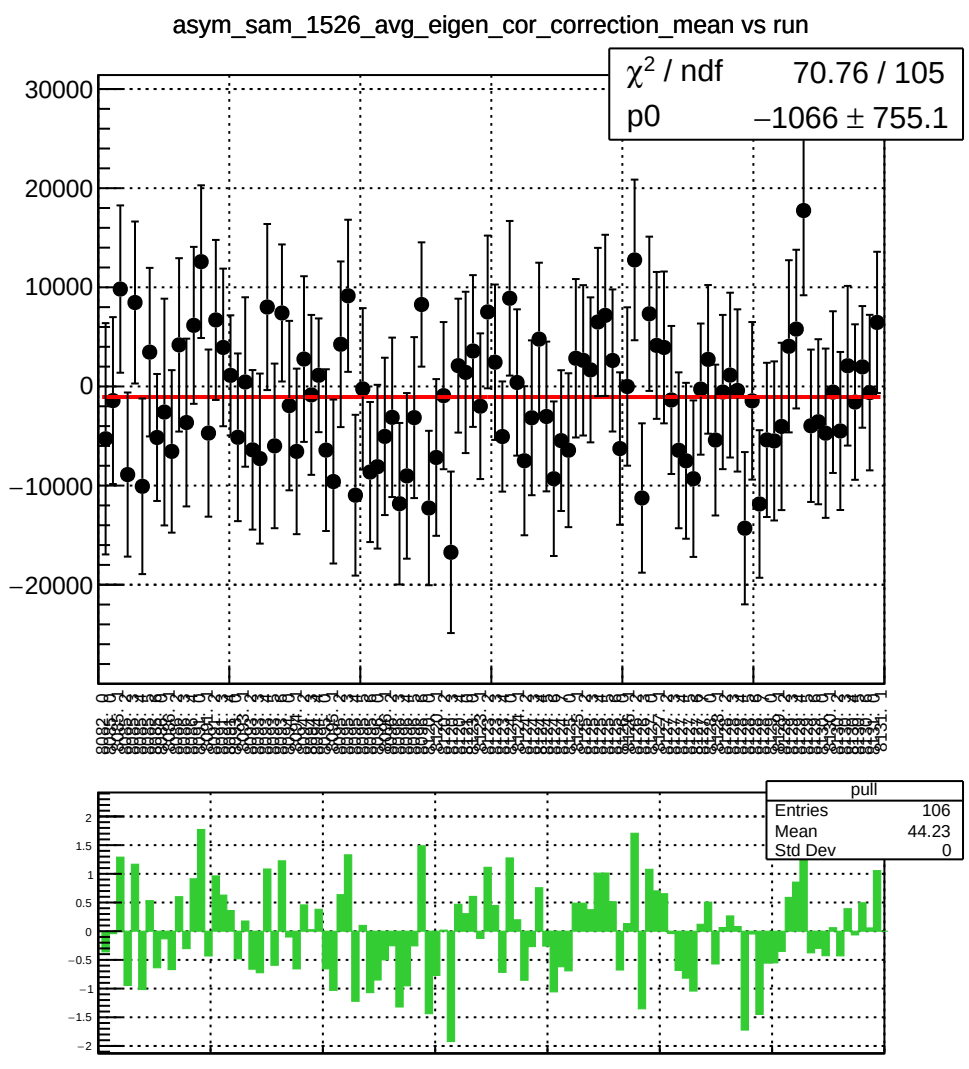

pull1D
Entries 106
Mean −0.007674
Std Dev 0.817
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

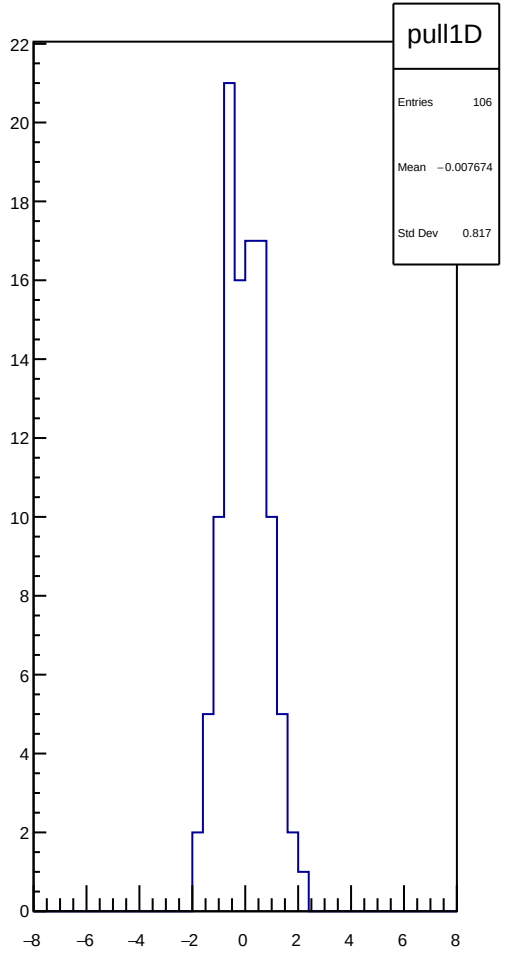

asym_sam_1526_avg_cor_correction_rms vs run
χ² / ndf 5552 / 105
p0 758.4 ± 0.5339
1100
1050
1000
950
900
850
800
750
700
650

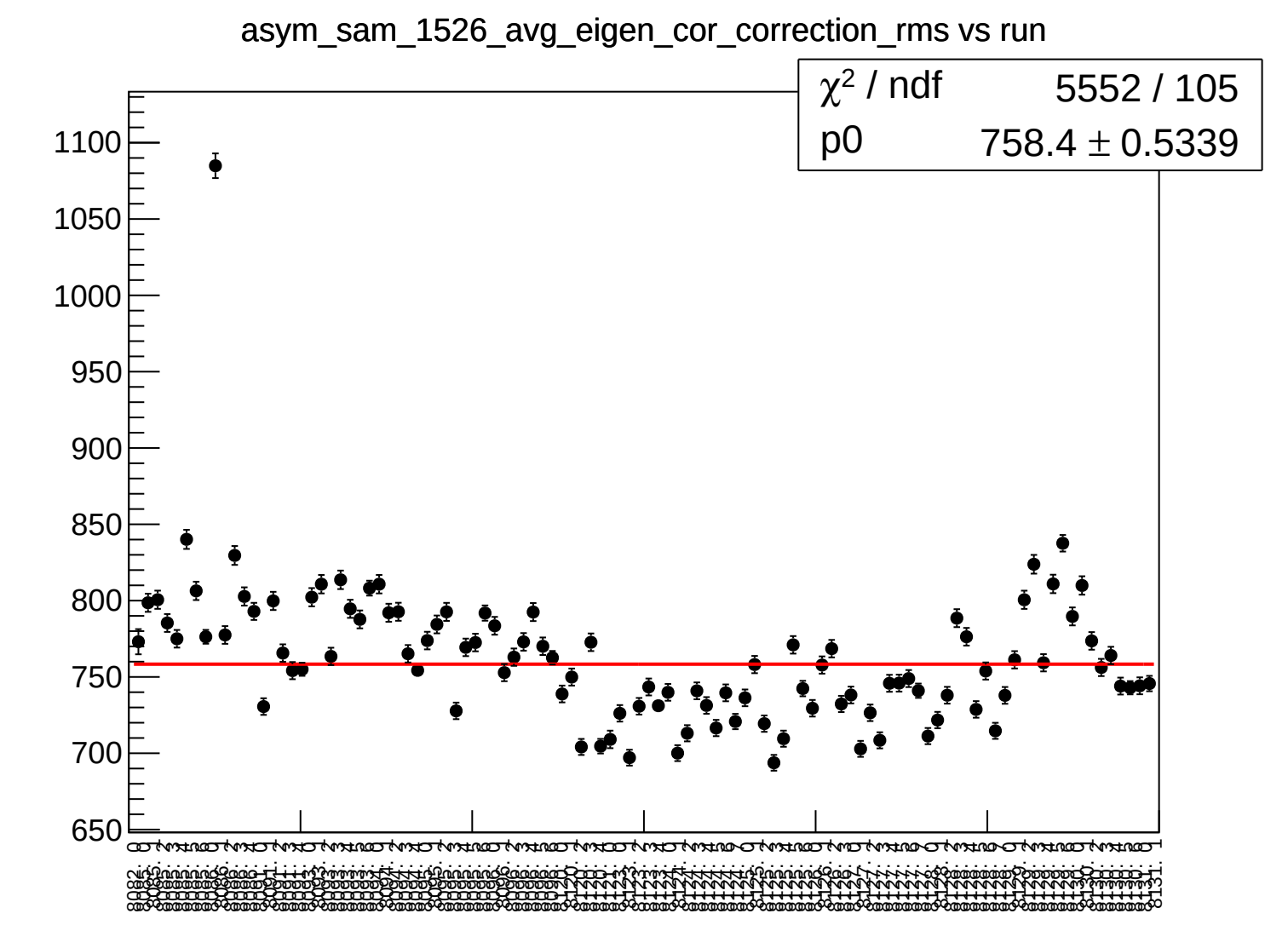

eigen_cor_asym_sam_1526_avg_mean vs run
χ² / ndf 106.5 / 105
p0 −149.8 ± 87.16
4000
2000
0
−2000
−4000
pull
Entries 106
Mean −1009
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

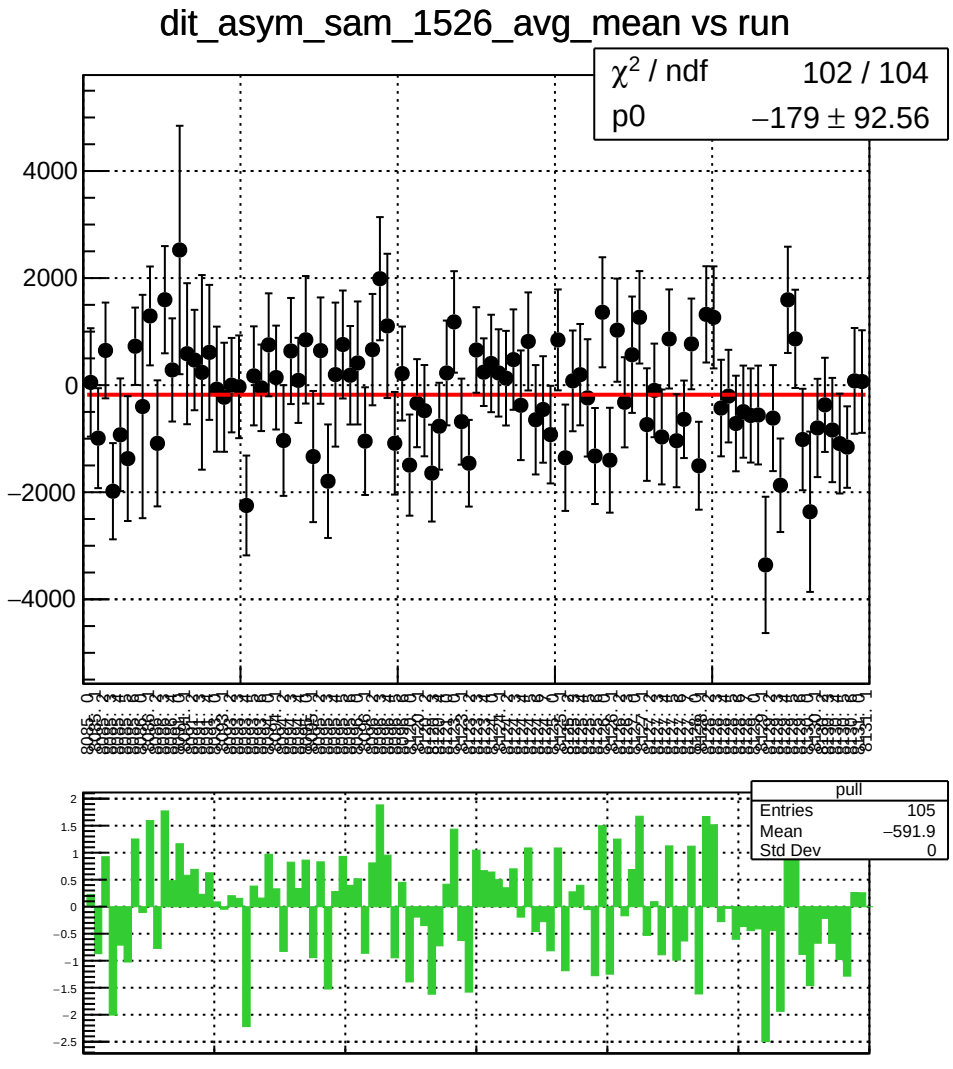

pull1D
Entries 106
Mean 0.00467
Std Dev 1.002
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

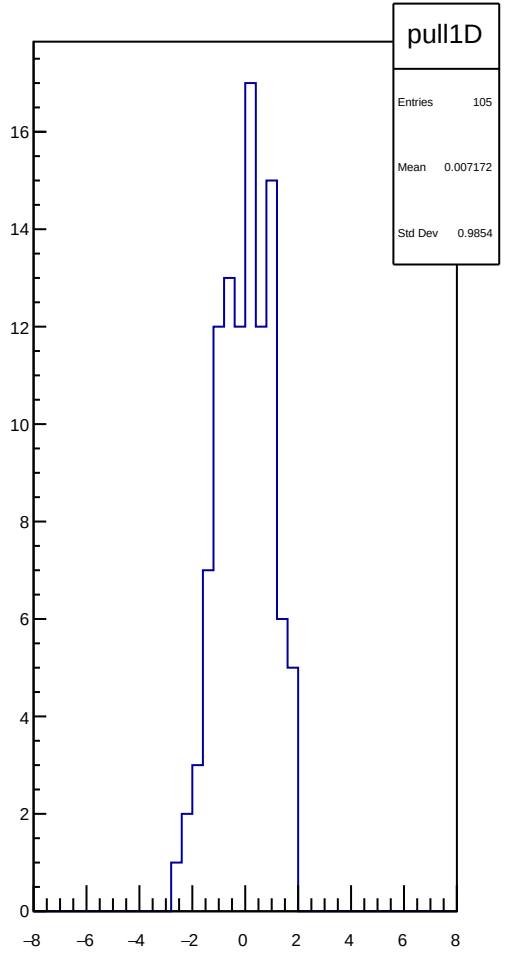

eigen_cor_asym_sam_1526_avg_rms vs run
χ² / ndf 4.978e+04 / 105
p0 86.58 ± 0.06163
220
200
180
160
140
120
100
80
60

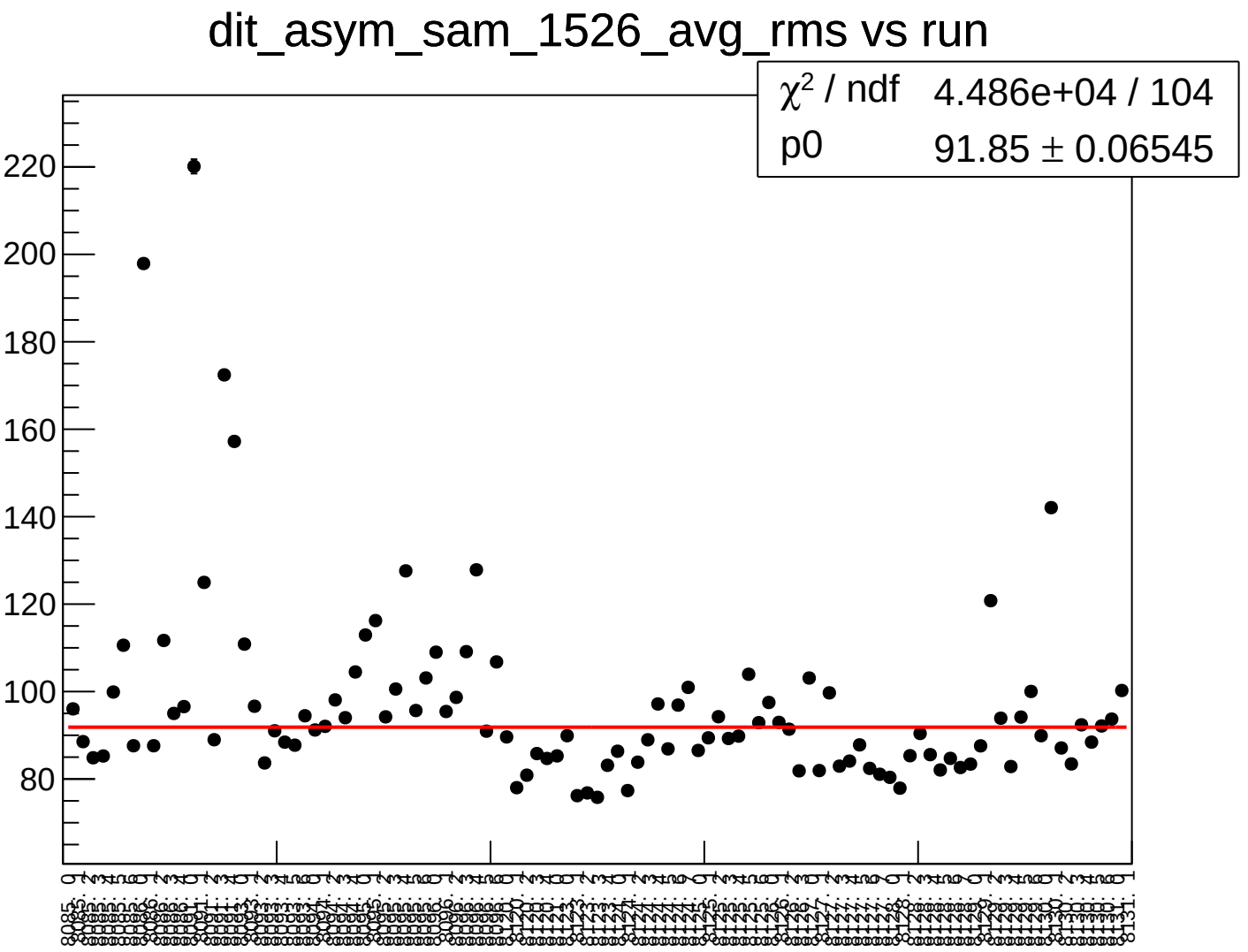

asym_sam_1526_avg_eigen_cor_correction_mean vs run
χ² / ndf 70.76 / 105
p0 −1066 ± 755.1
30000
20000
10000
0
−10000
−20000
pull
Entries 106
Mean 44.23
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

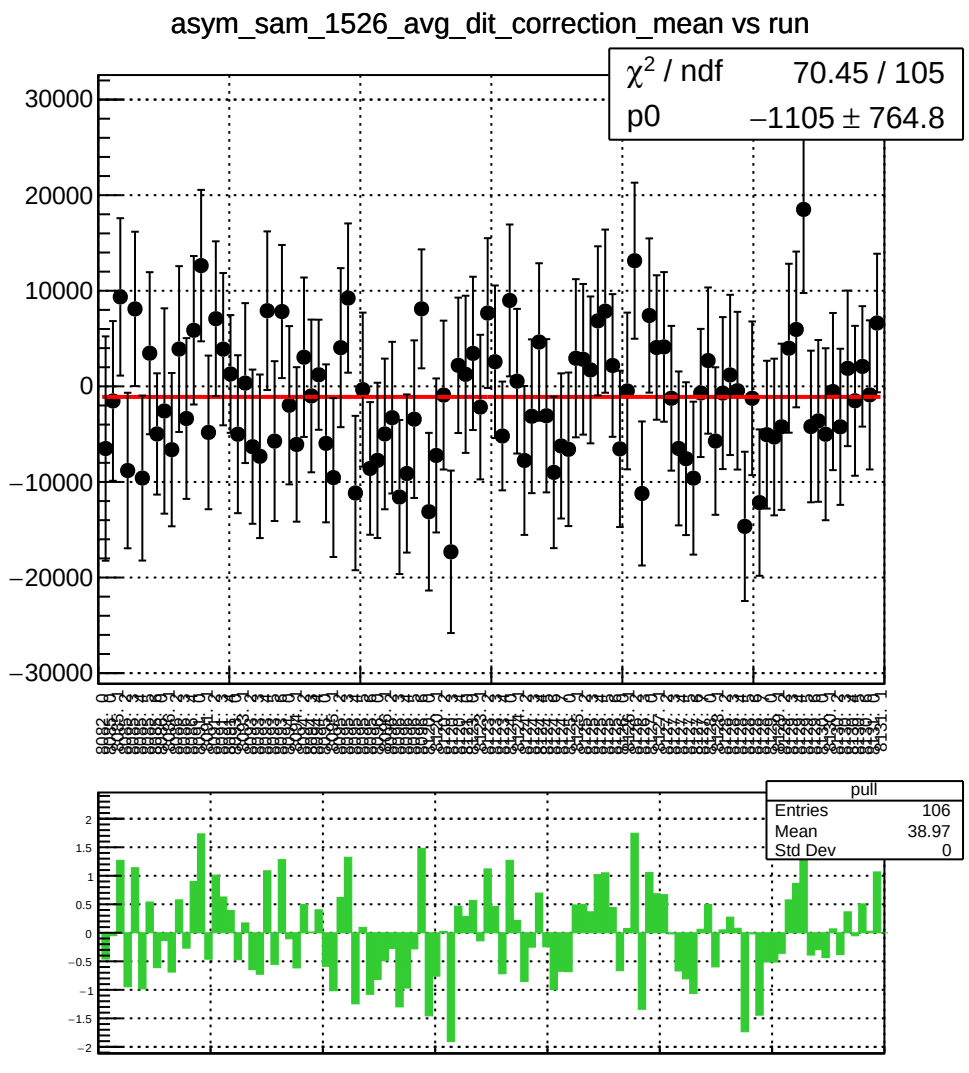

pull1D
Entries 106
Mean −0.007674
Std Dev 0.817
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

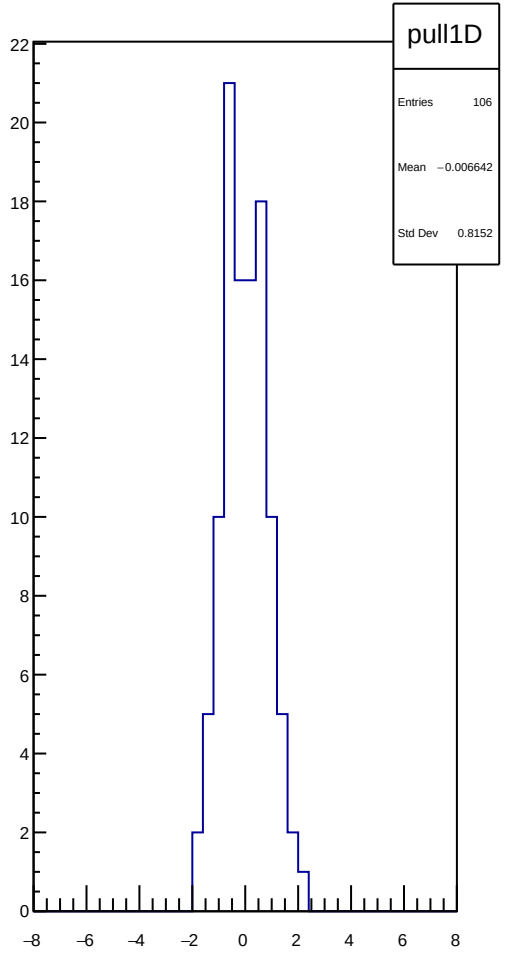

asym_sam_1526_avg_eigen_cor_correction_rms vs run
χ² / ndf 5552 / 105
p0 758.4 ± 0.5339
1100
1050
1000
950
900
850
800
750
700
650

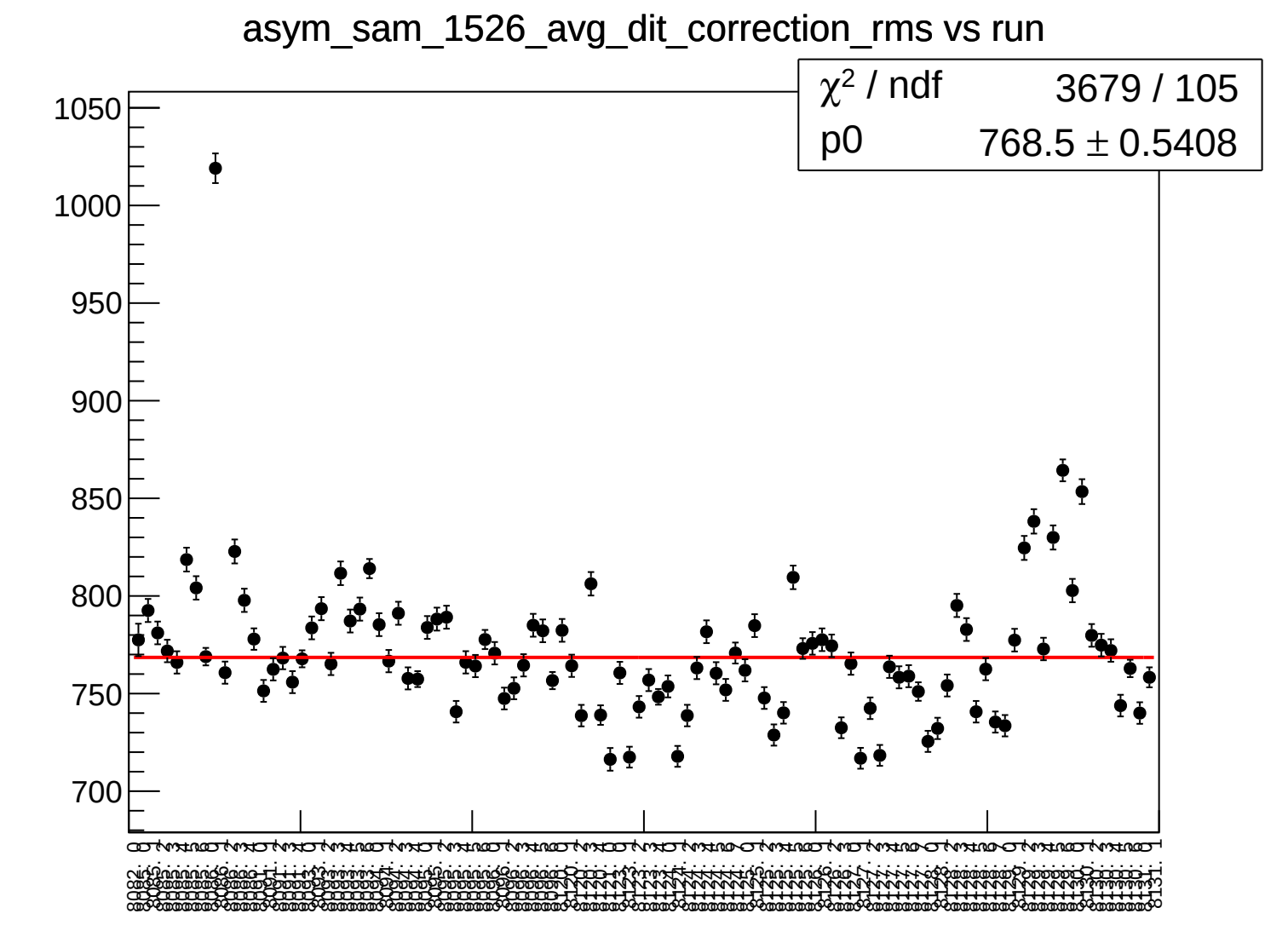

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 102 / 104
p0 −179 ± 92.56
4000
2000
0
−2000
−4000
pull
Entries 105
Mean −591.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

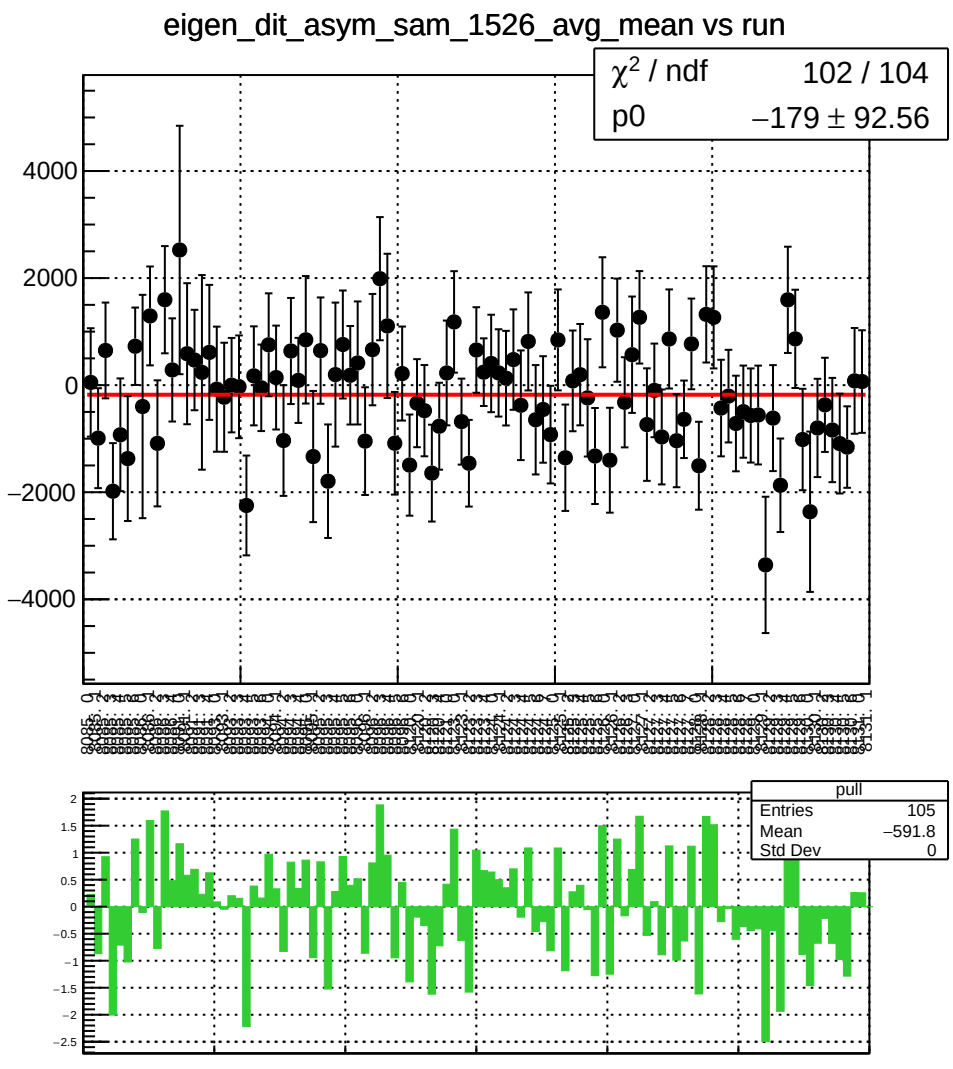

pull1D
Entries 105
Mean 0.007172
Std Dev 0.9854
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

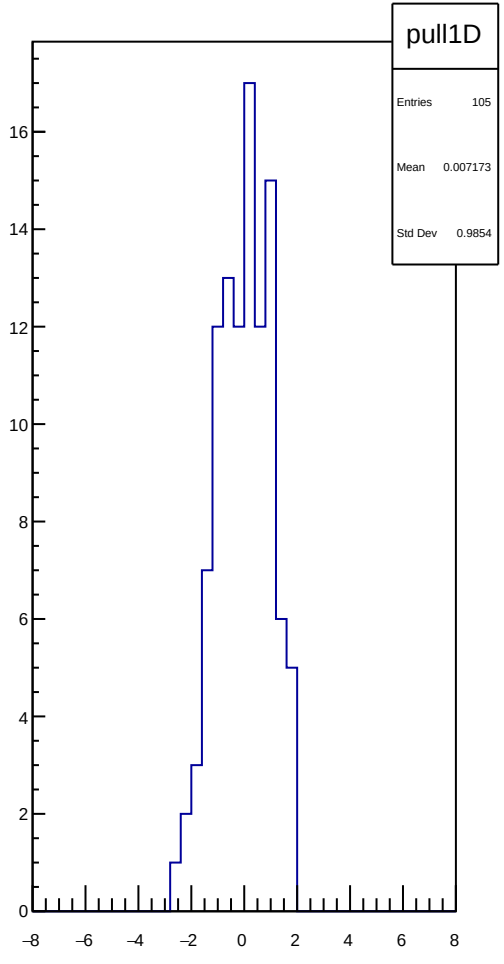

dit_asym_sam_1526_avg_rms vs run
χ² / ndf 4.486e+04 / 104
p0 91.85 ± 0.06545
220
200
180
160
140
120
100
80

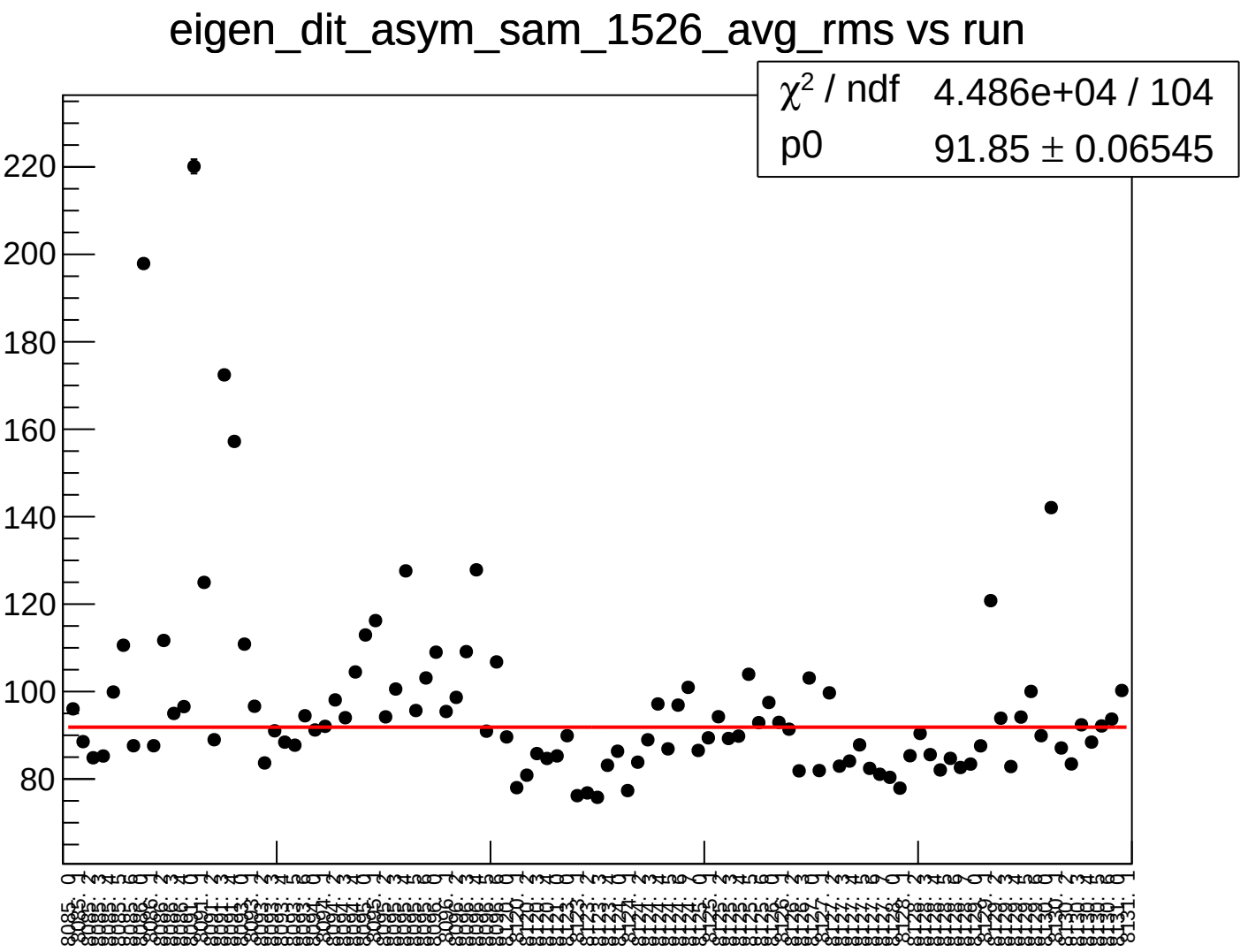

asym_sam_1526_avg_dit_correction_mean vs run
χ² / ndf 70.45 / 105
p0 −1105 ± 764.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 106
Mean 38.97
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

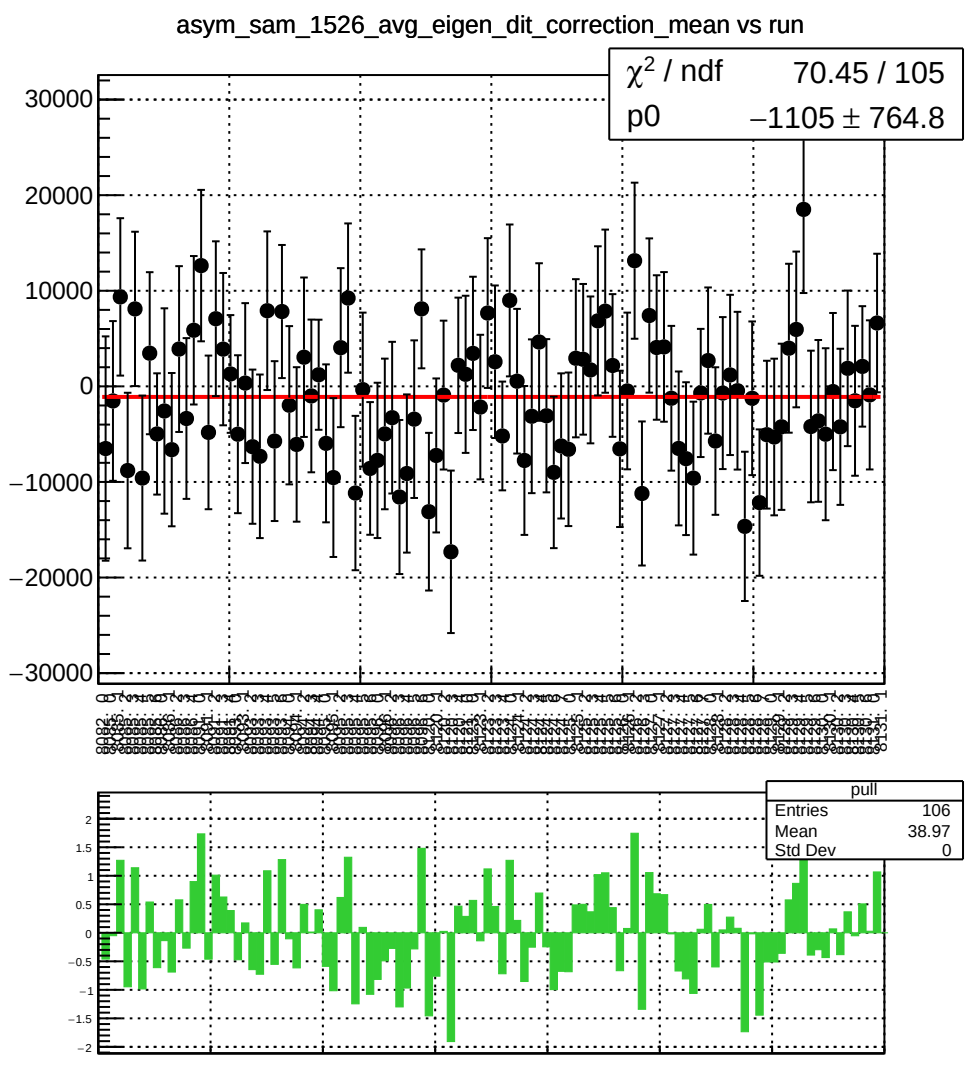

pull1D
Entries 106
Mean −0.006642
Std Dev 0.8152
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

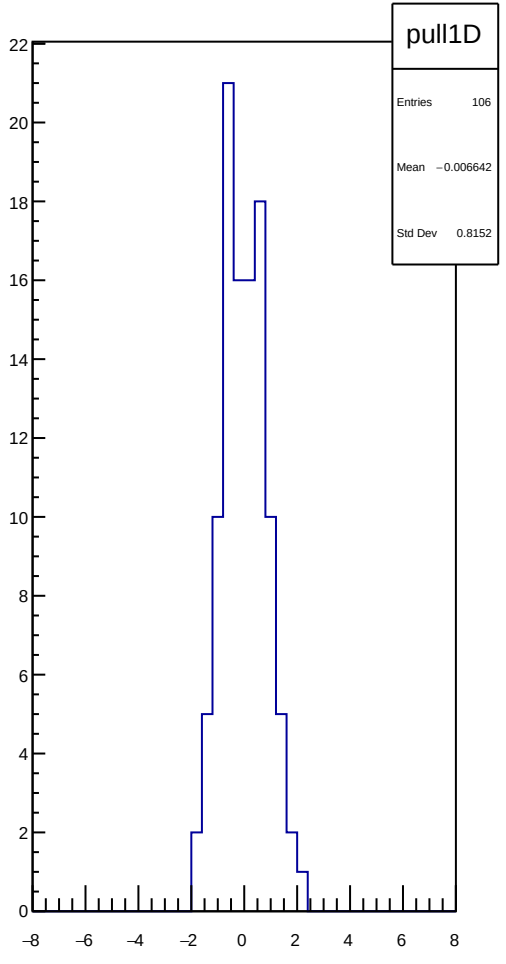

asym_sam_1526_avg_dit_correction_rms vs run
χ² / ndf 3679 / 105
p0 768.5 ± 0.5408
1050
1000
950
900
850
800
750
700

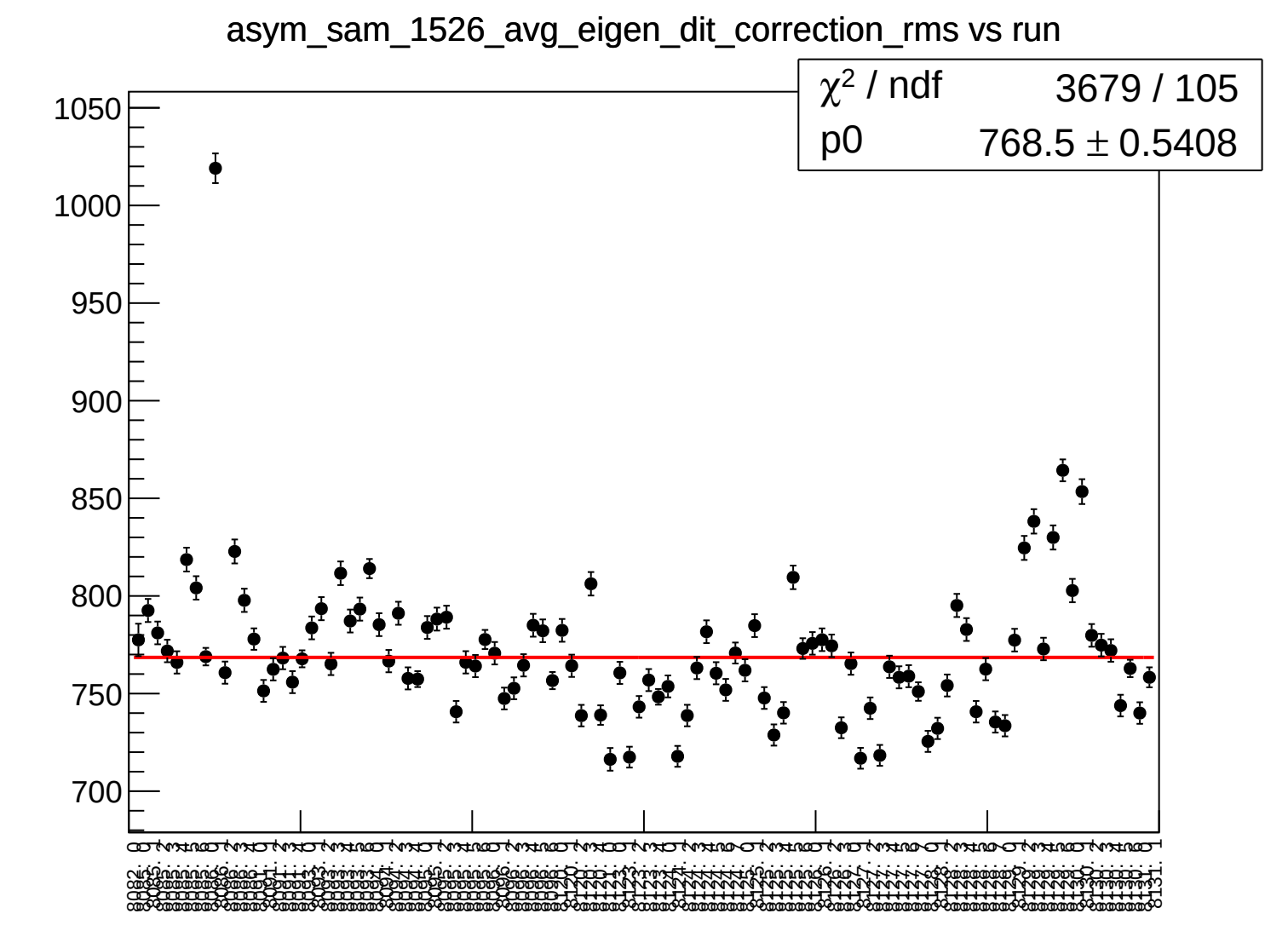

eigen_dit_asym_sam_1526_avg_mean vs run
χ² / ndf 102 / 104
p0 −179 ± 92.56
4000
2000
0
−2000
−4000
pull
Entries 105
Mean −591.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

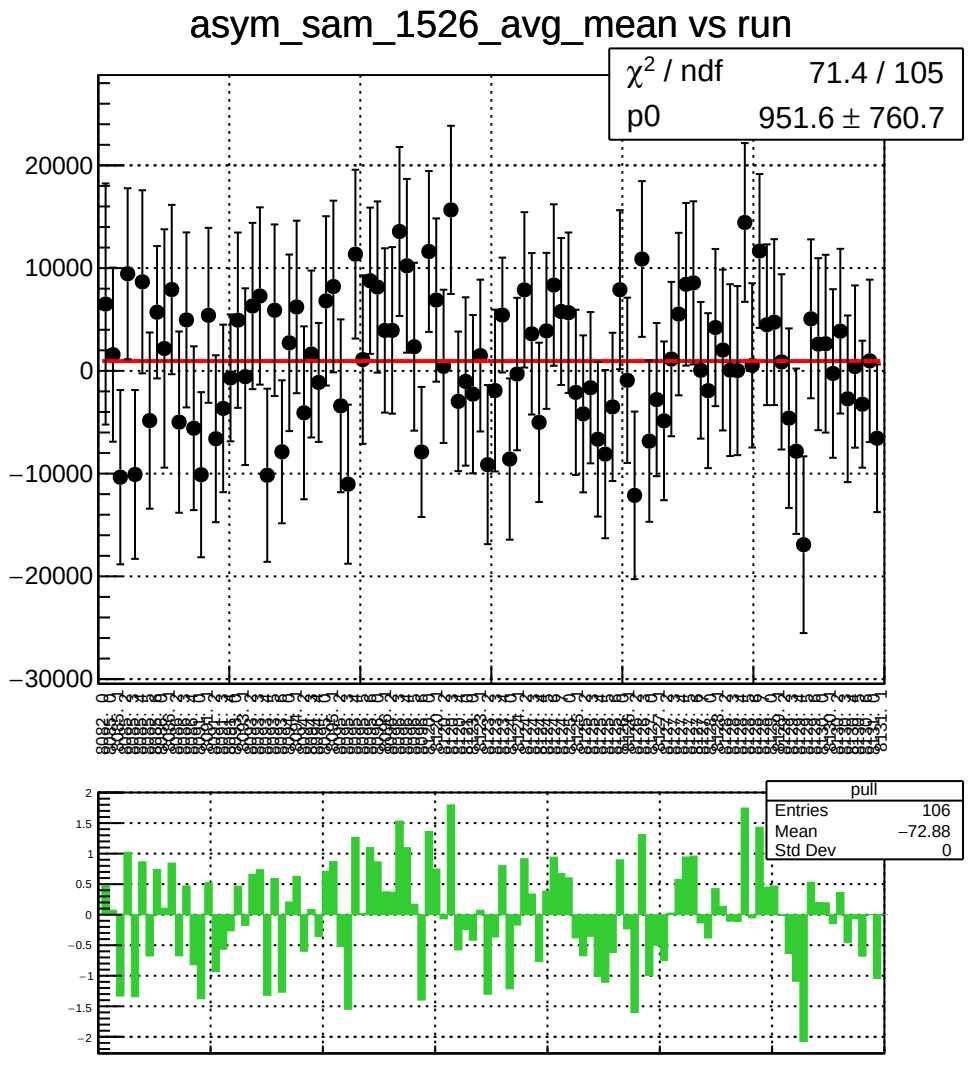

pull1D
Entries 105
Mean 0.007173
Std Dev 0.9854
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

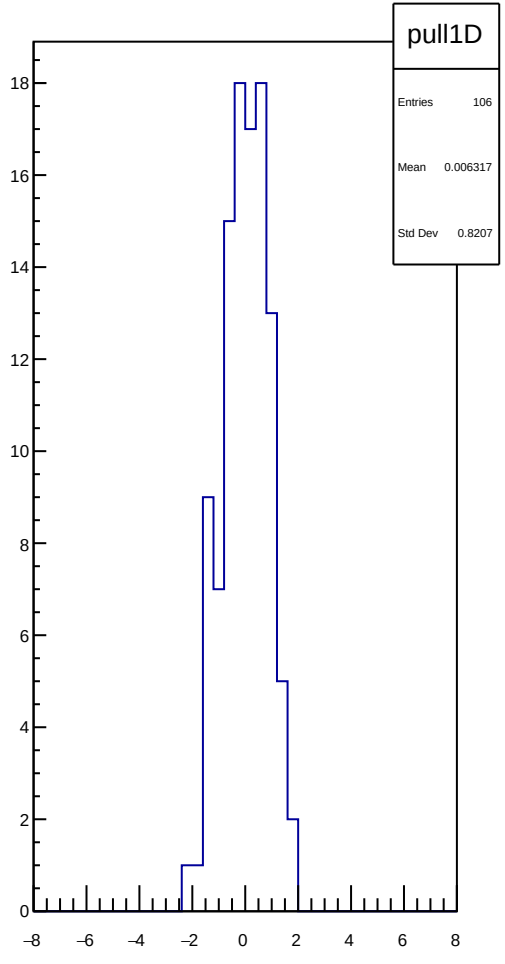

eigen_dit_asym_sam_1526_avg_rms vs run
$\chi^2$ / ndf 4.486e+04 / 104
p0 91.85 ± 0.06545
220
200
180
160
140
120
100
80

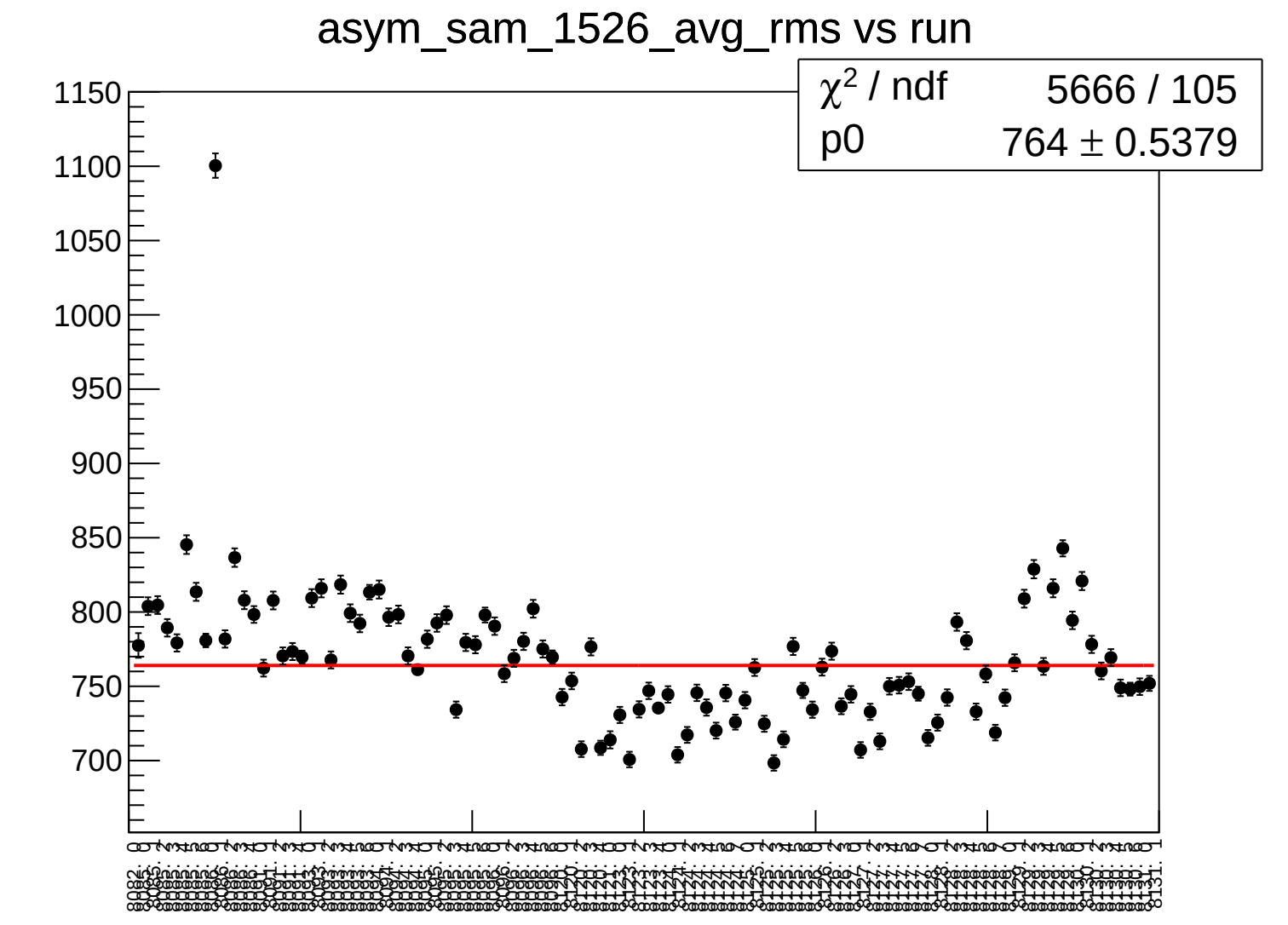

asym_sam_1526_avg_eigen_dit_correction_mean vs run
χ² / ndf 70.45 / 105
p0 −1105 ± 764.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 106
Mean 38.97
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

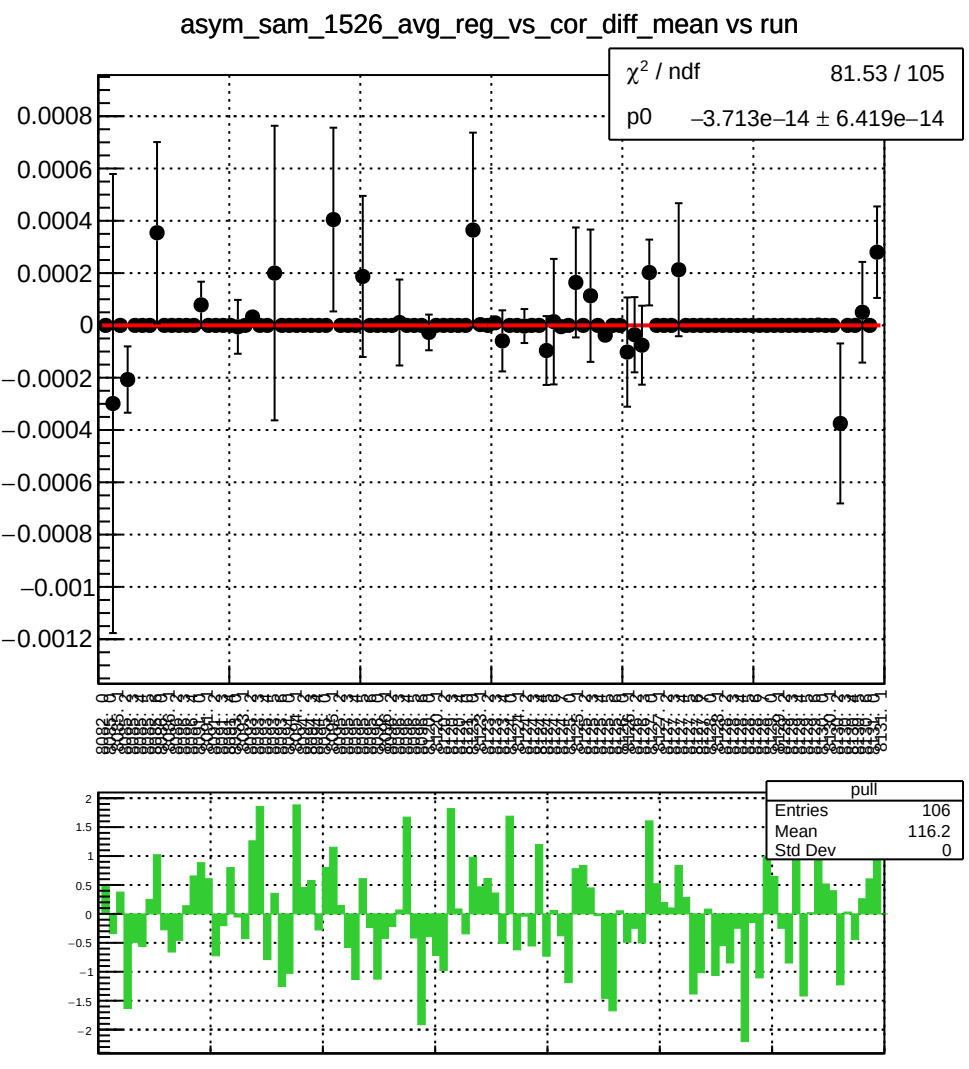

pull1D
Entries 106
Mean −0.006642
Std Dev 0.8152
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

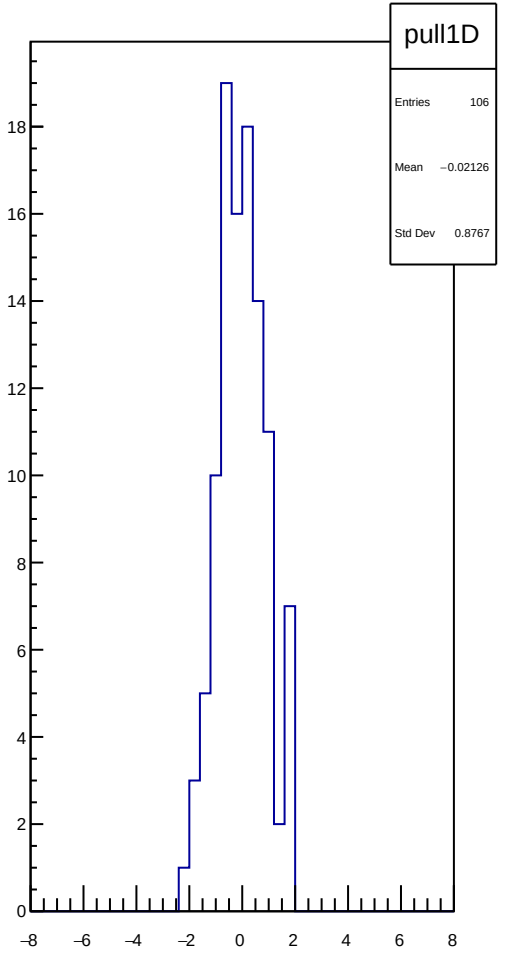

asym_sam_1526_avg_eigen_dit_correction_rms vs run
χ² / ndf 3679 / 105
p0 768.5 ± 0.5408
1050
1000
950
900
850
800
750
700

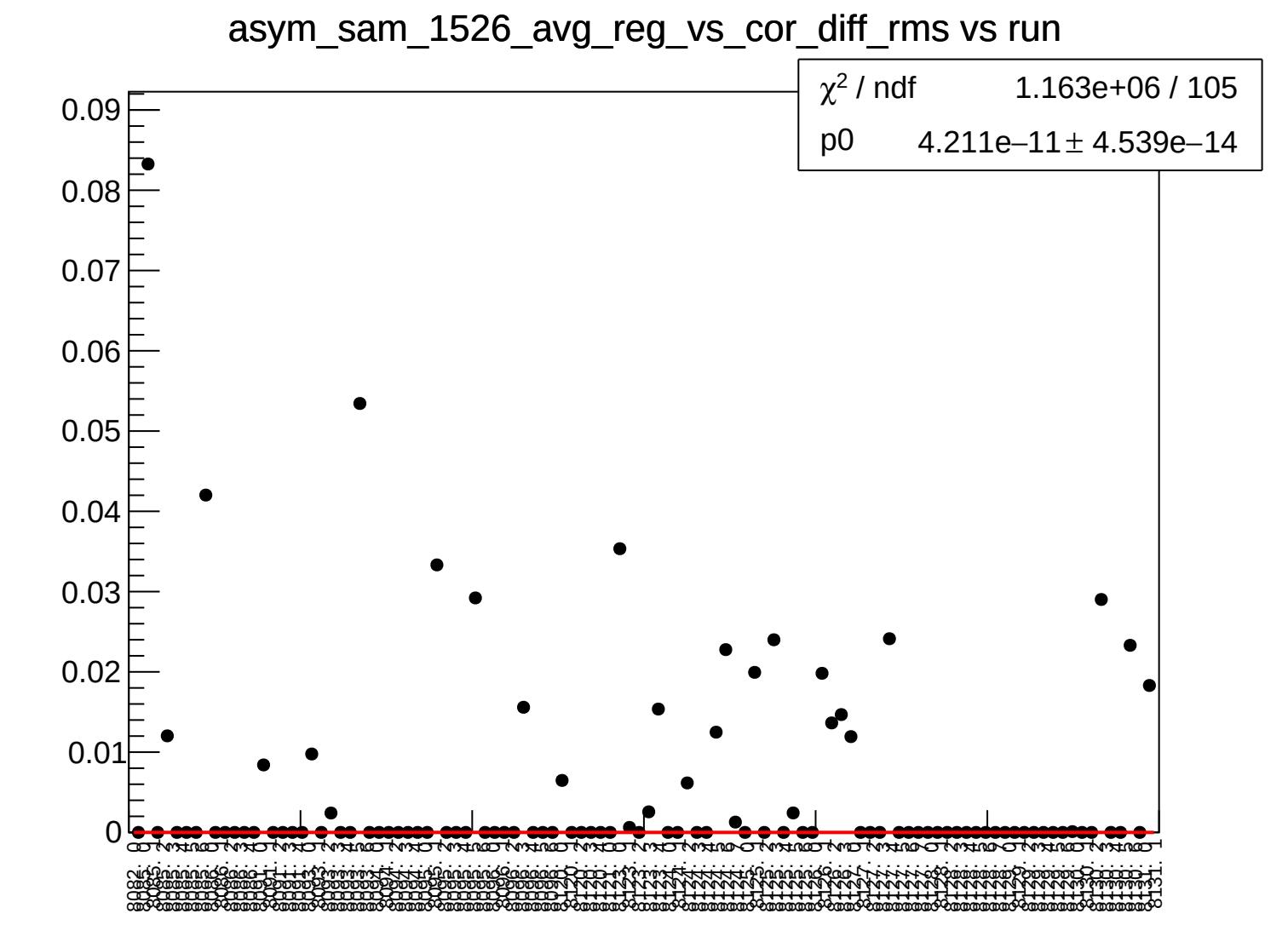

asym_sam_1526_avg_mean vs run
χ² / ndf 71.4 / 105
p0 951.6 ± 760.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 106
Mean −72.88
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

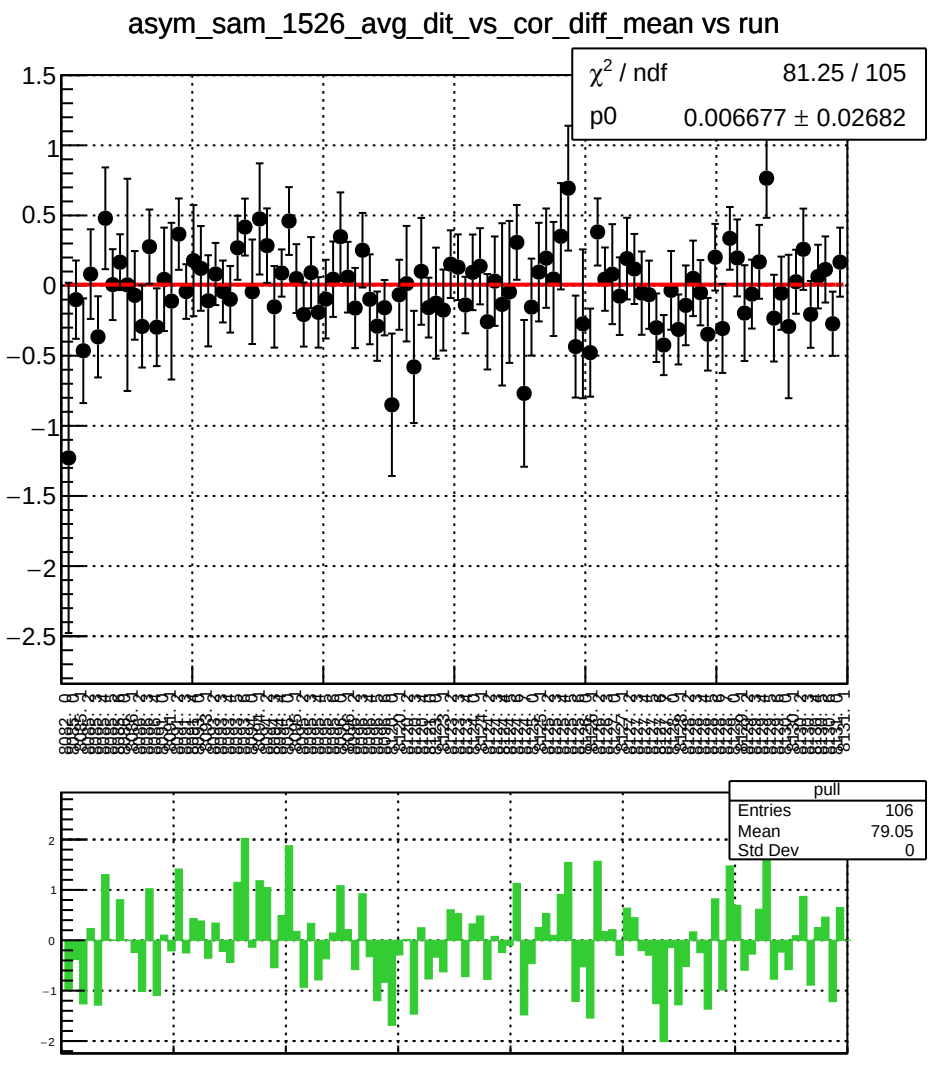

pull1D
Entries 106
Mean 0.006317
Std Dev 0.8207
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

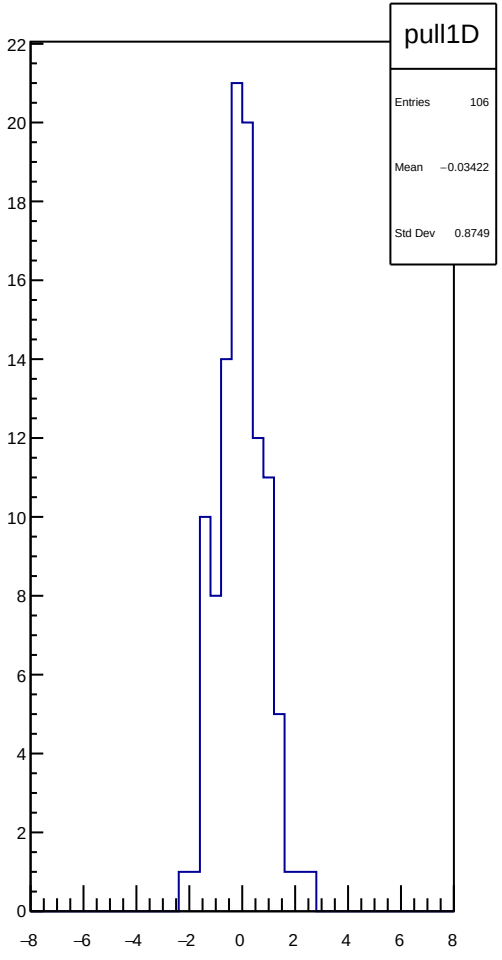

asym_sam_1526_avg_rms vs run
χ² / ndf 5666 / 105
p0 764 ± 0.5379
1150
1100
1050
1000
950
900
850
800
750
700

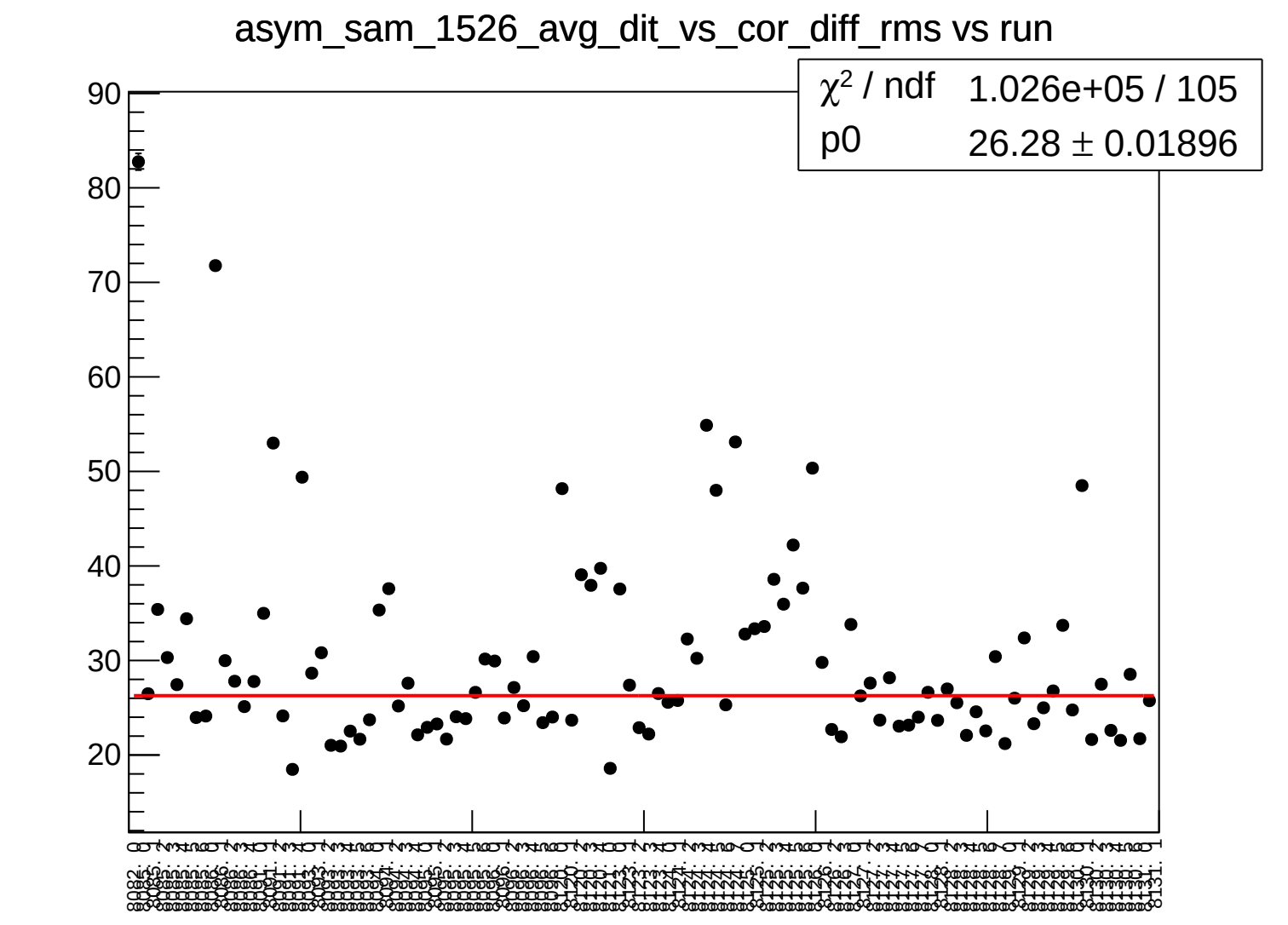

asym_sam_1526_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 81.53 / 105
p0 −3.713e−14 ± 6.419e−14
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
pull
Entries 106
Mean 116.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

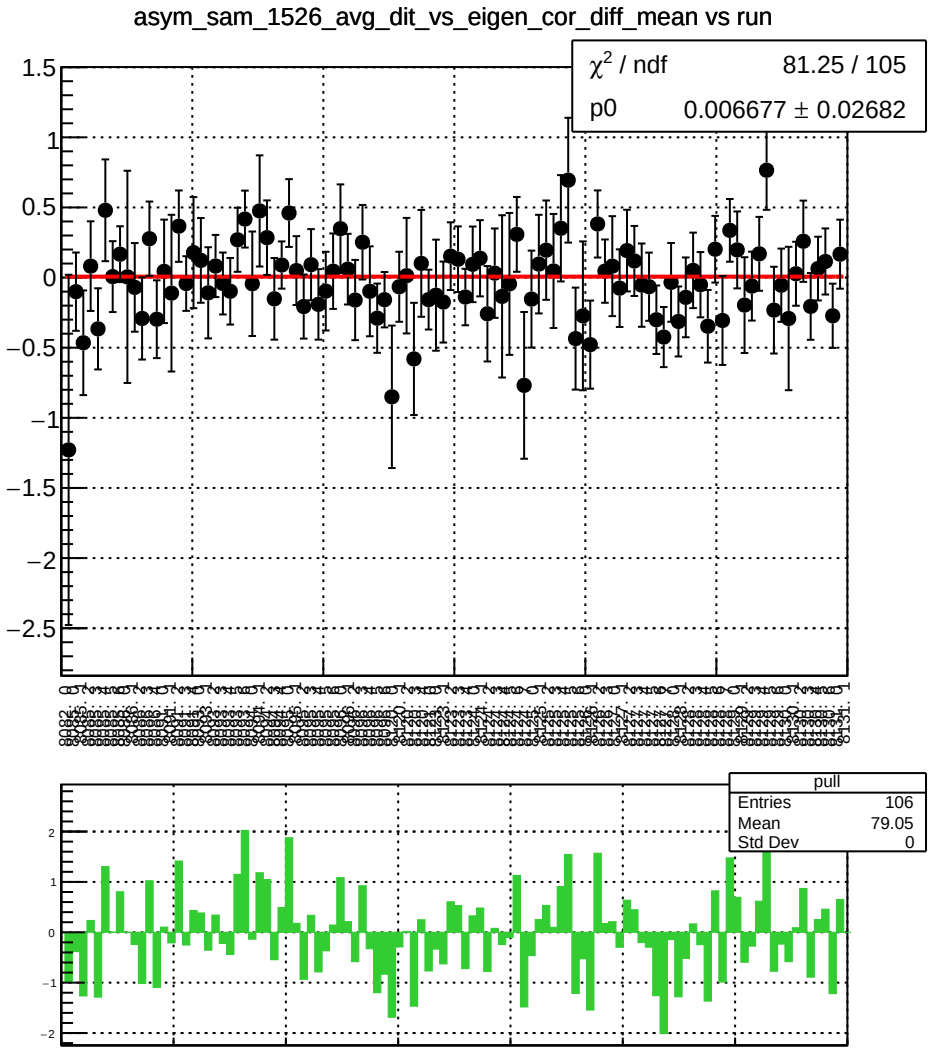

pull1D
Entries 106
Mean −0.02126
Std Dev 0.8767
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

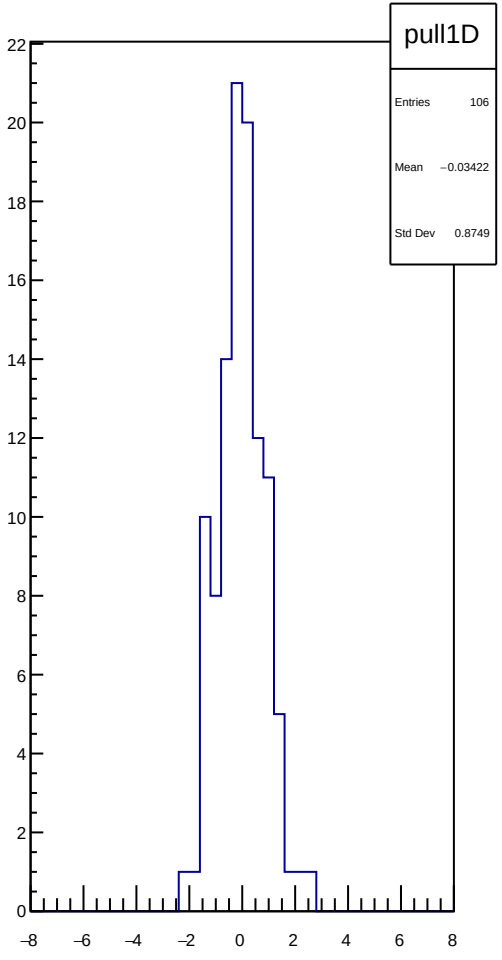

asym_sam_1526_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.163e+06 / 105
p0 4.211e−11 ± 4.539e−14
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

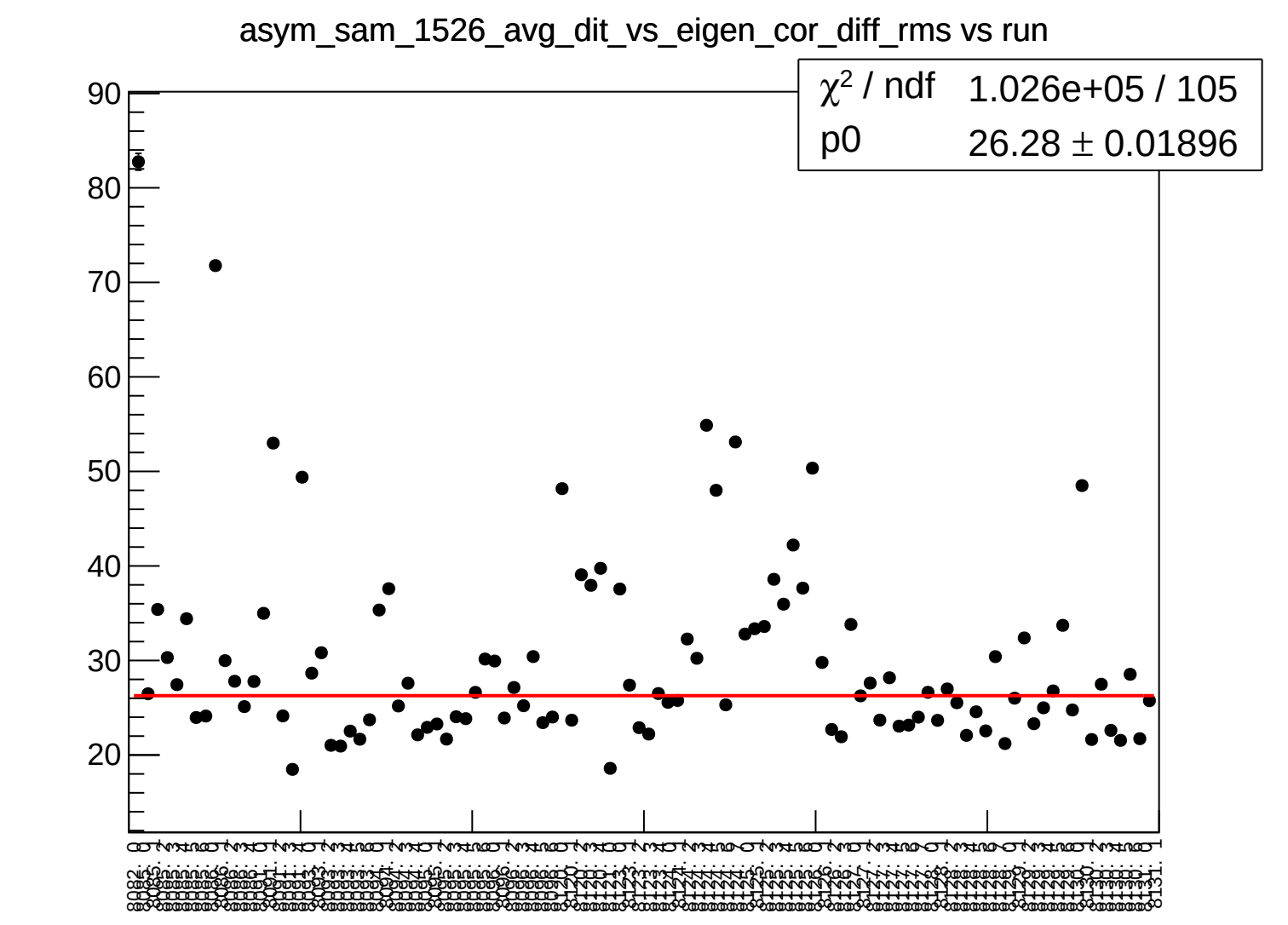

asym_sam_1526_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 81.25 / 105
p0 0.006677 ± 0.02682
pull
Entries 106
Mean 79.05
Std Dev 0

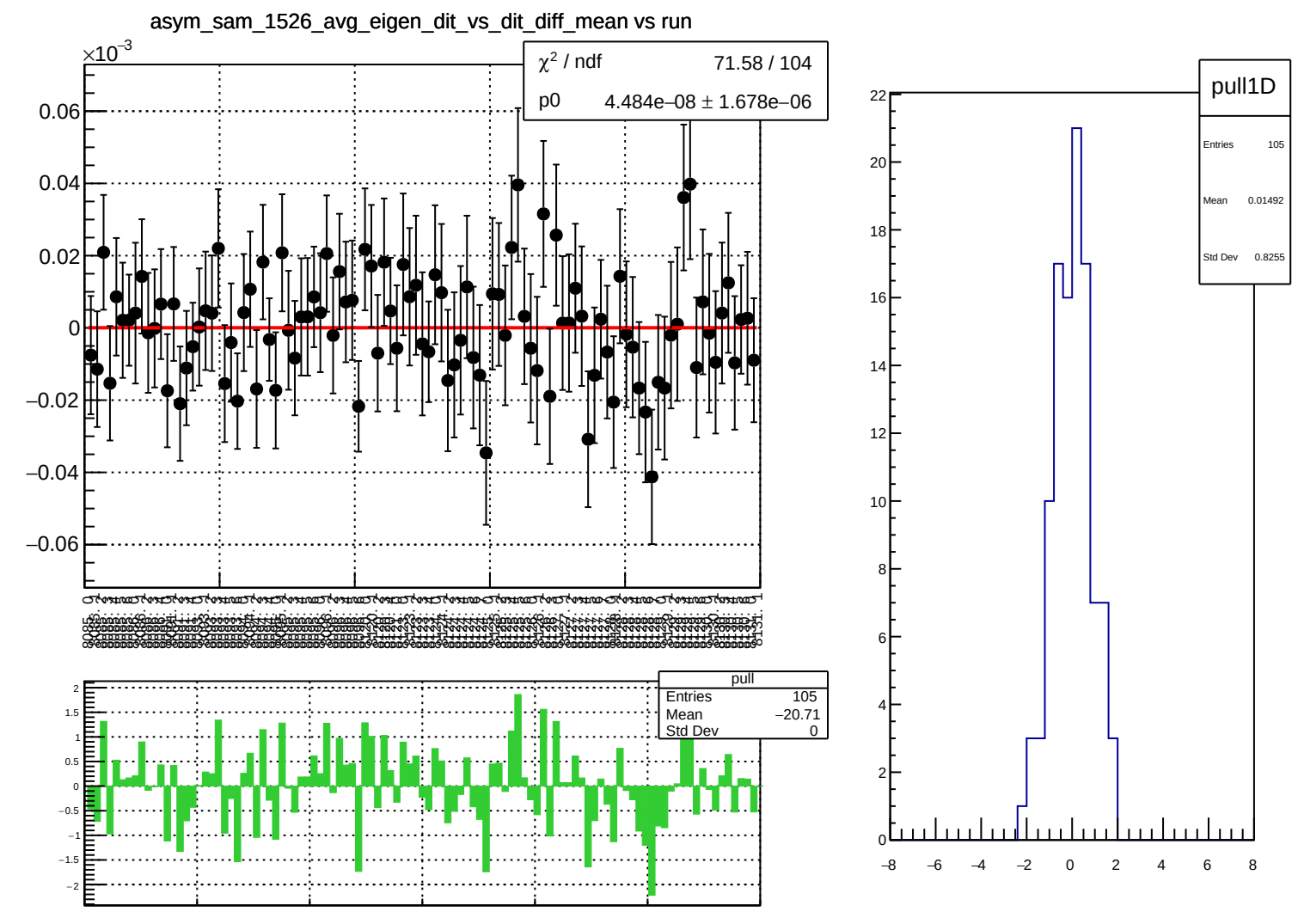

pull1D
Entries 106
Mean −0.03422
Std Dev 0.8749

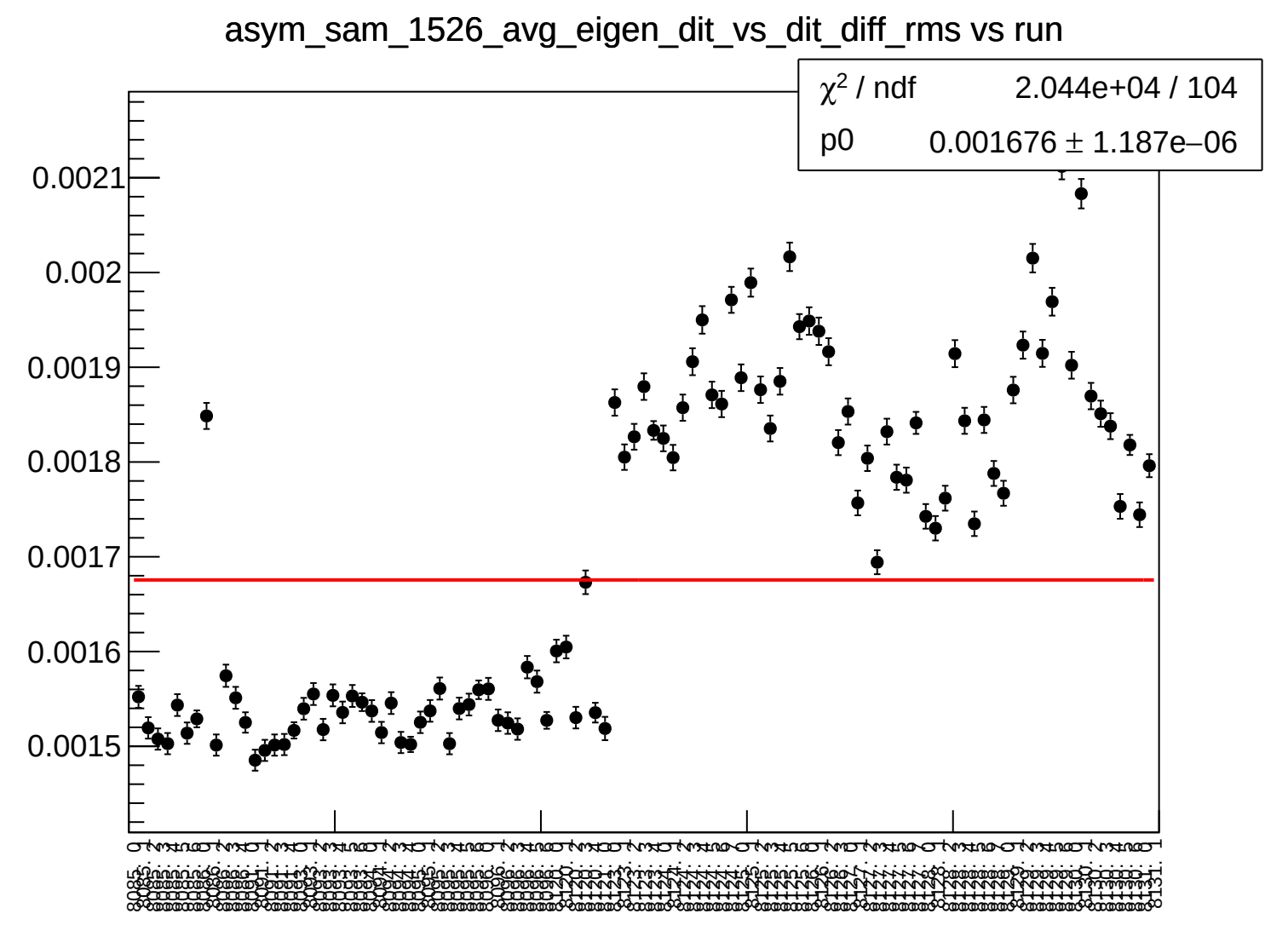

asym_sam_1526_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.026e+05 / 105
p0 26.28 ± 0.01896
90
80
70
60
50
40
30
20

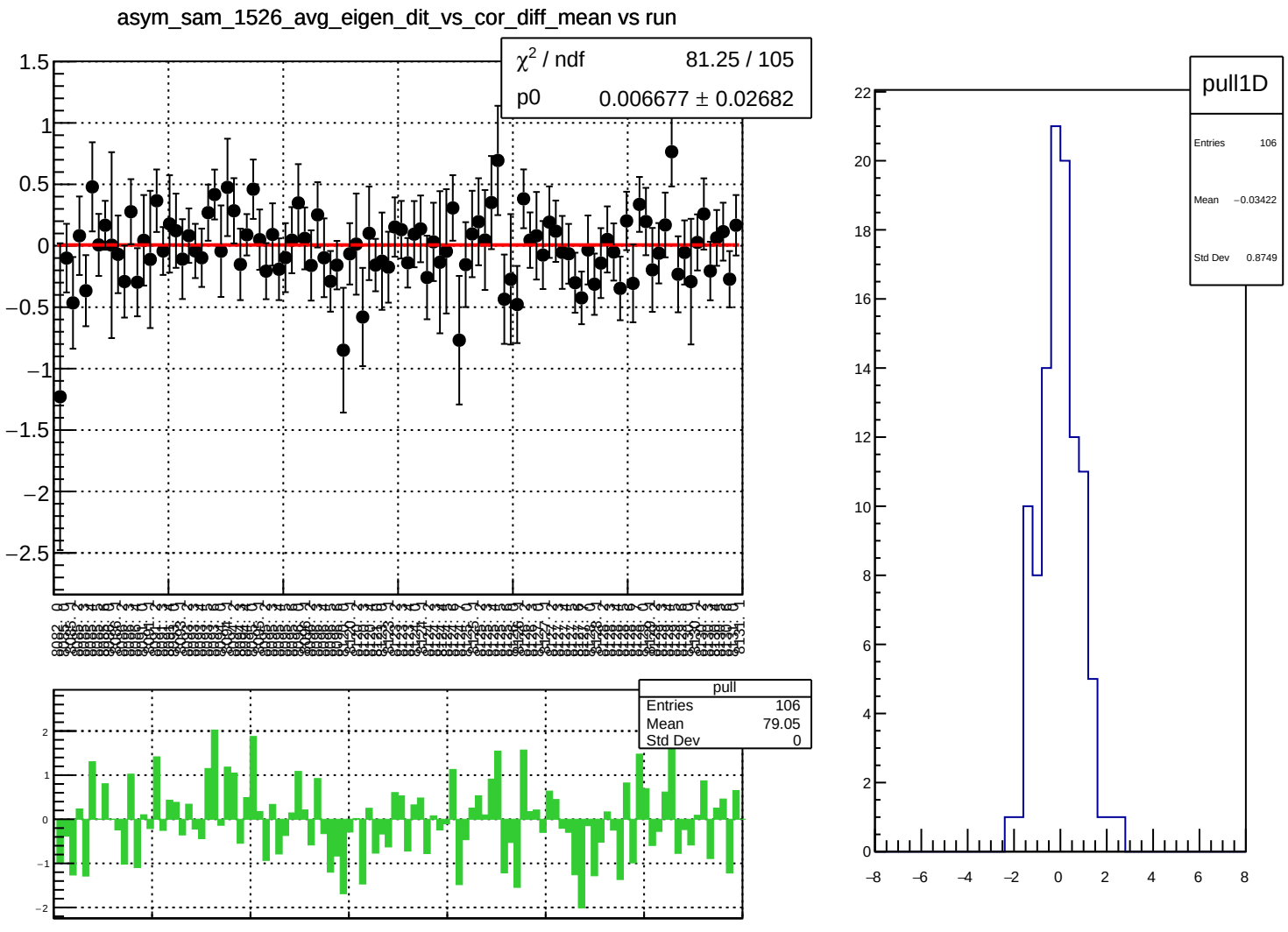

asym_sam_1526_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.25 / 105
p0 0.006677 ± 0.02682
pull
Entries 106
Mean 79.05
Std Dev 0

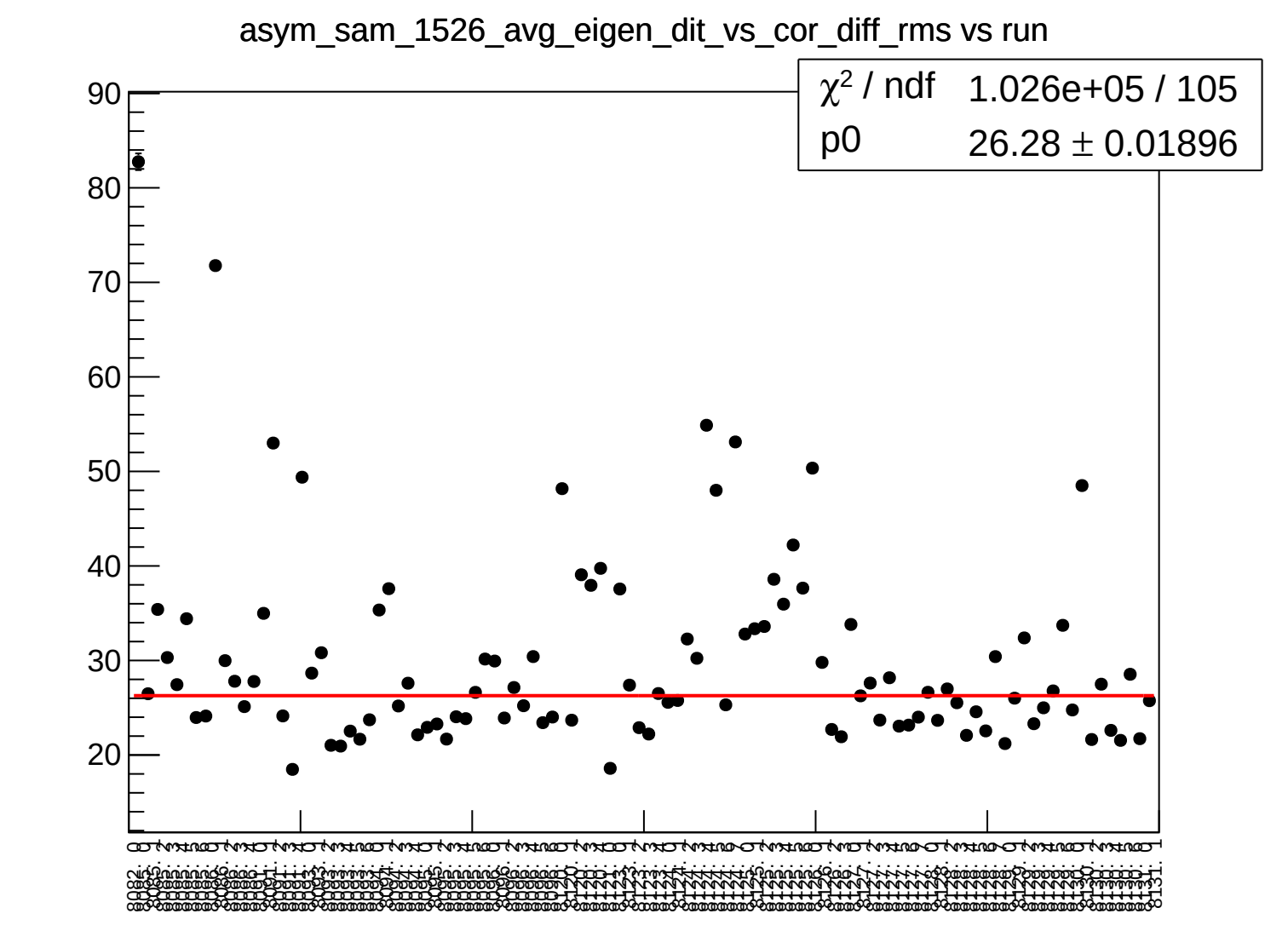

pull1D
Entries 106
Mean −0.03422
Std Dev 0.8749

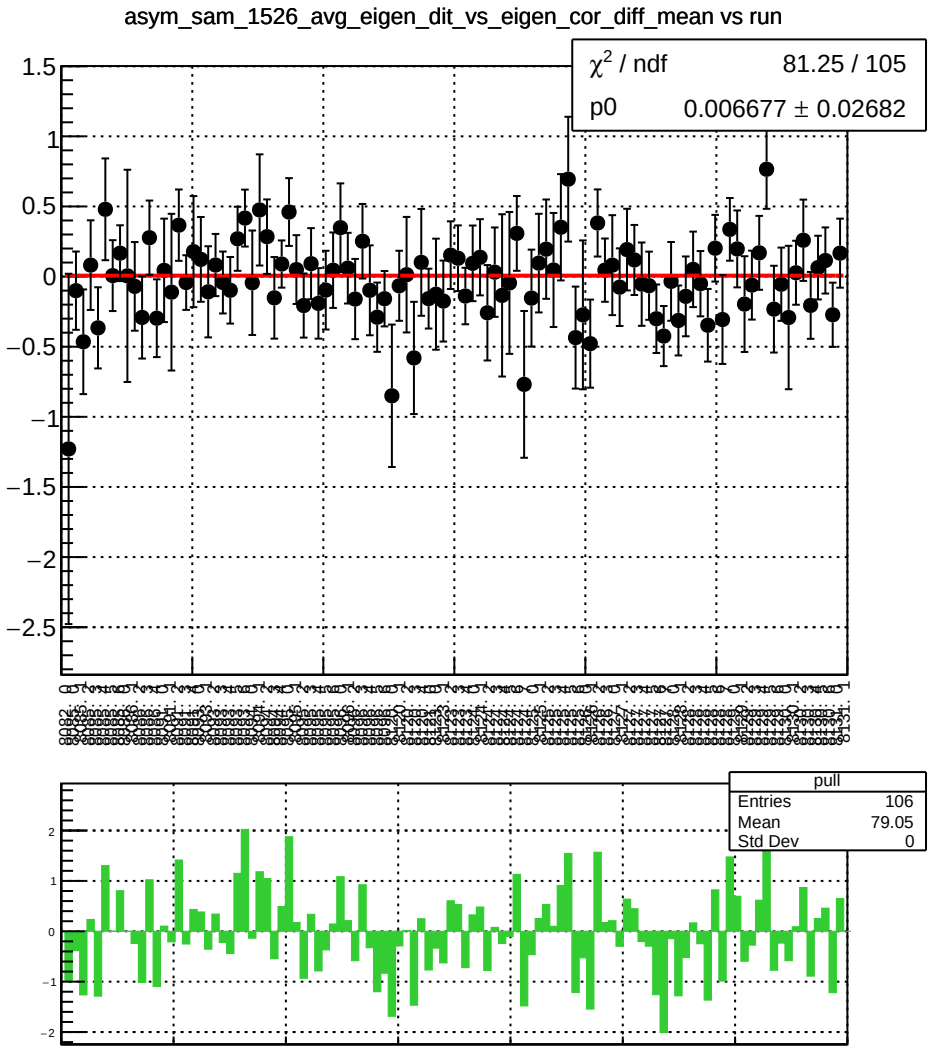

asym_sam_1526_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.026e+05 / 105
p0 26.28 ± 0.01896
90
80
70
60
50
40
30
20

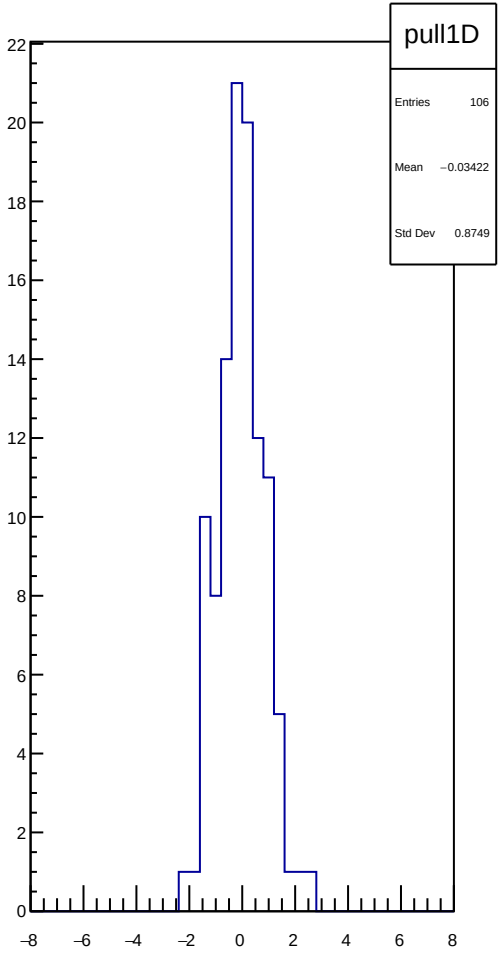

asym_sam_1526_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 71.58 / 104
p0 4.484e−08 ± 1.678e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 105
Mean −20.71
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 105
Mean 0.01492
Std Dev 0.8255
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

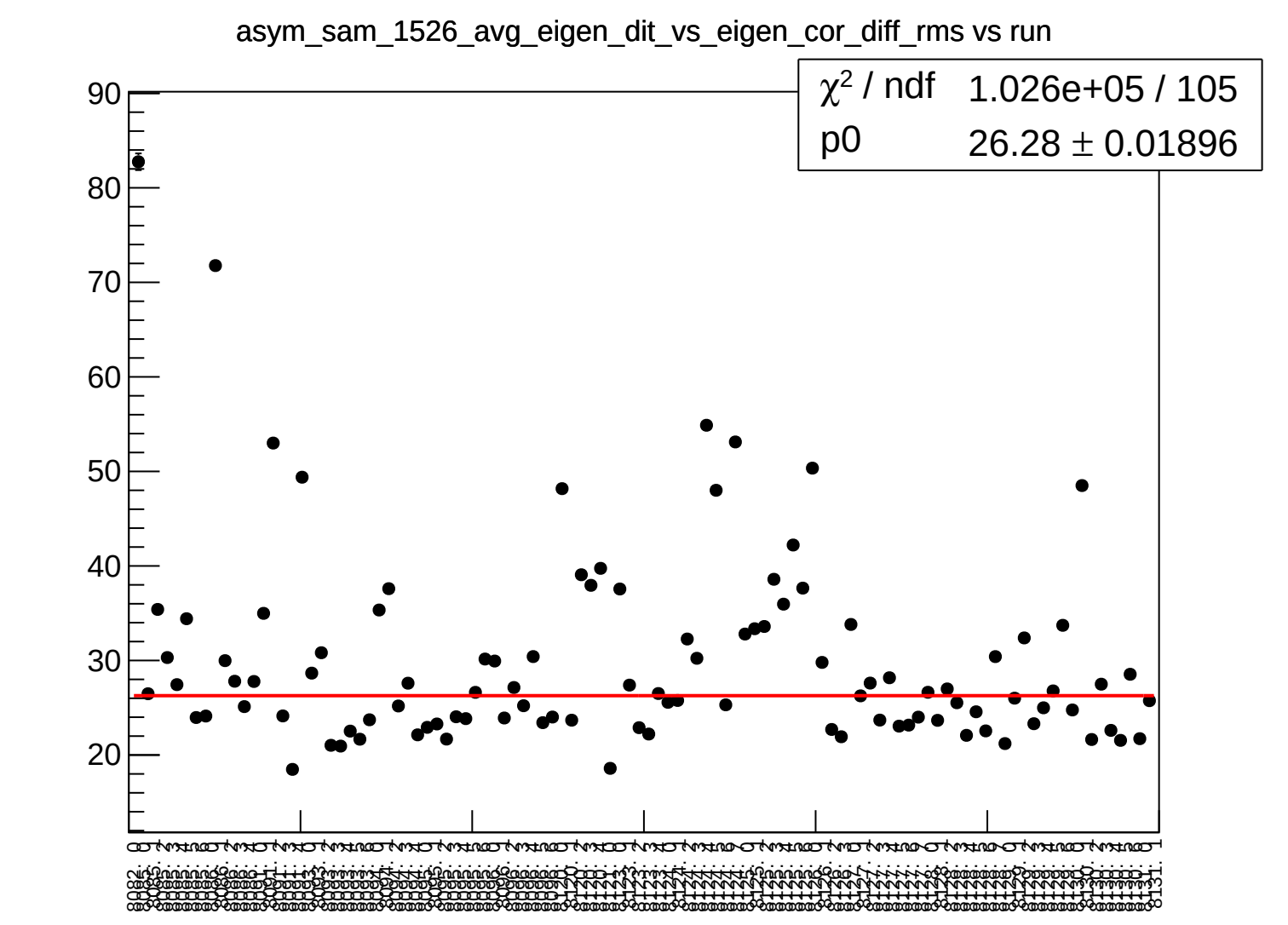

asym_sam_1526_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.044e+04 / 104
p0 0.001676 ± 1.187e−06
0.0021
0.002
0.0019
0.0018
0.0017
0.0016
0.0015

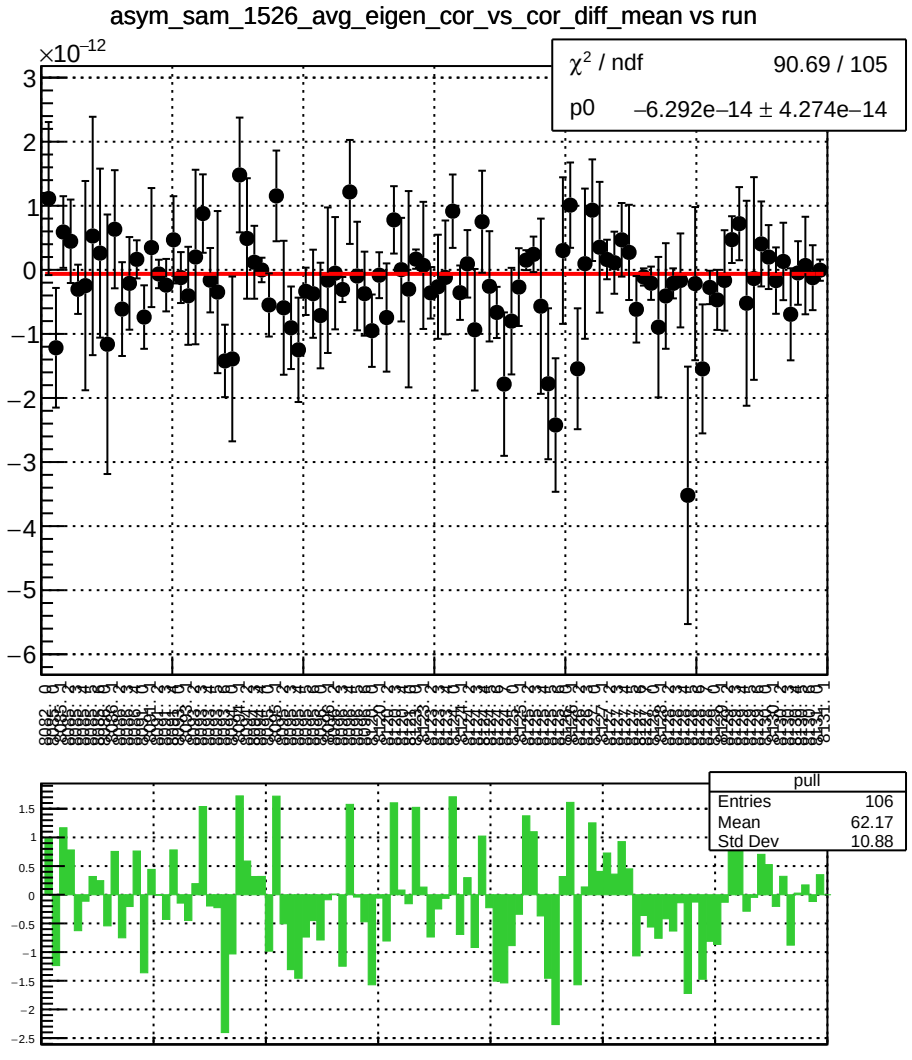

asym_sam_1526_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.25 / 105
p0 0.006677 ± 0.02682
pull
Entries 106
Mean 79.05
Std Dev 0
pull1D
Entries 106
Mean −0.03422
Std Dev 0.8749

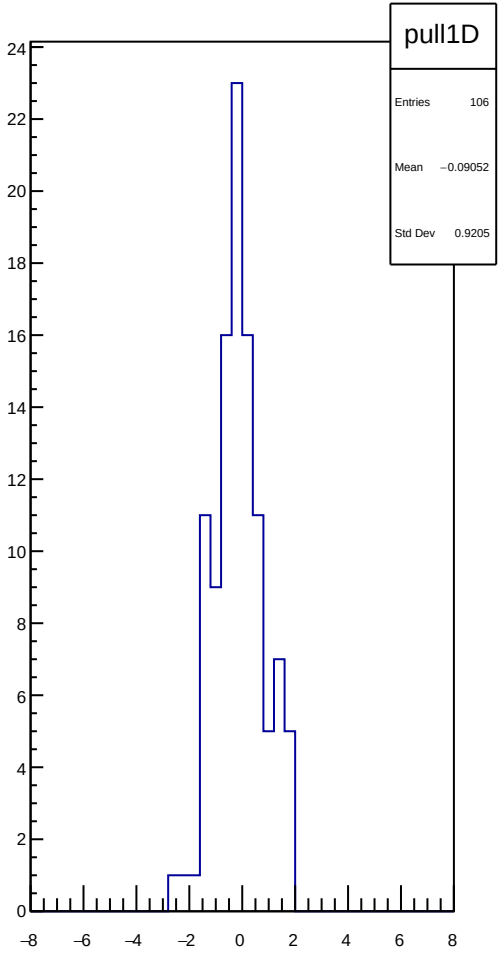

asym_sam_1526_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.026e+05 / 105
p0 26.28 ± 0.01896
90
80
70
60
50
40
30
20

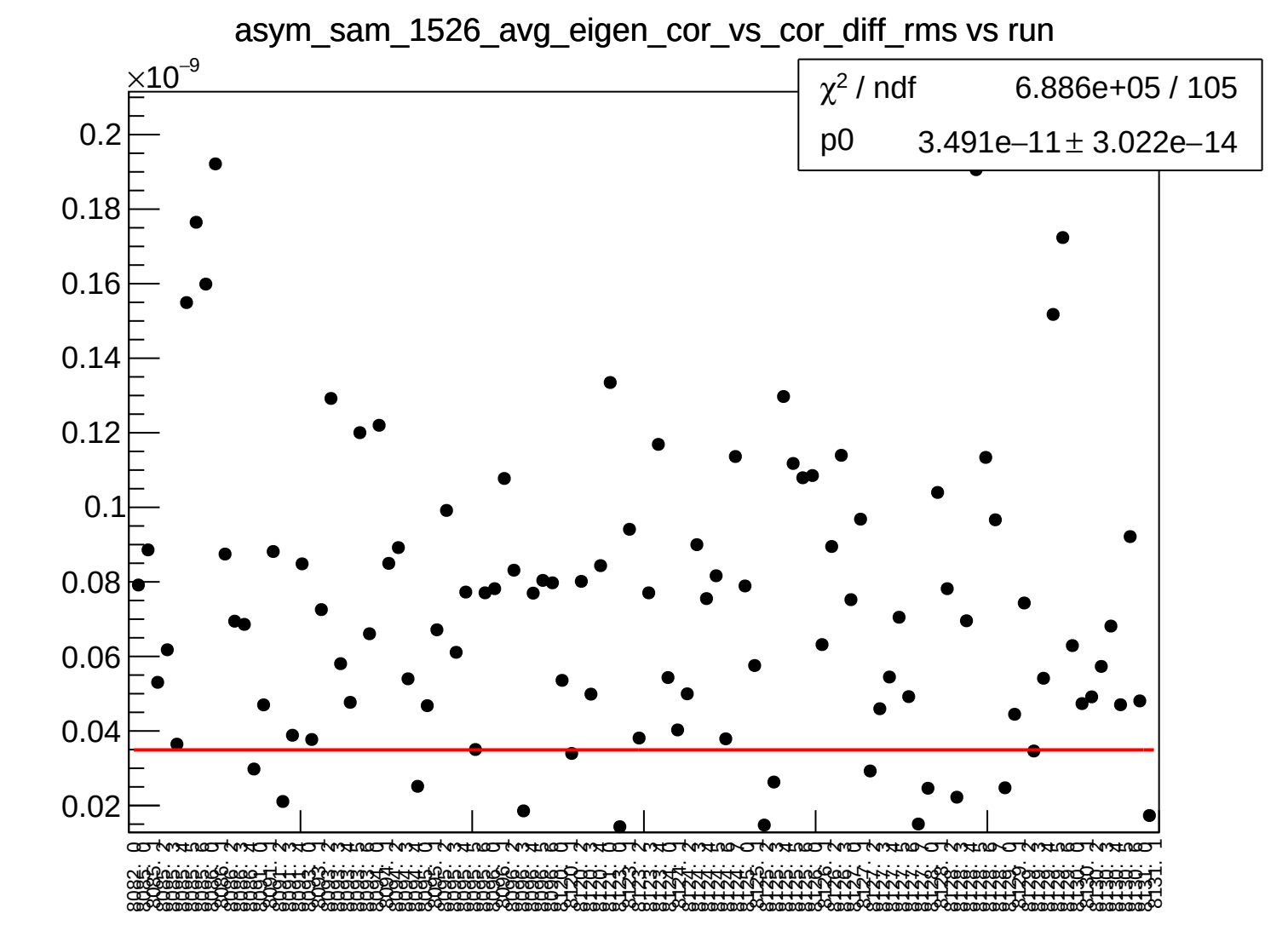

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.25 / 105
p0 0.006677 ± 0.02682
pull
Entries 106
Mean 79.05
Std Dev 0

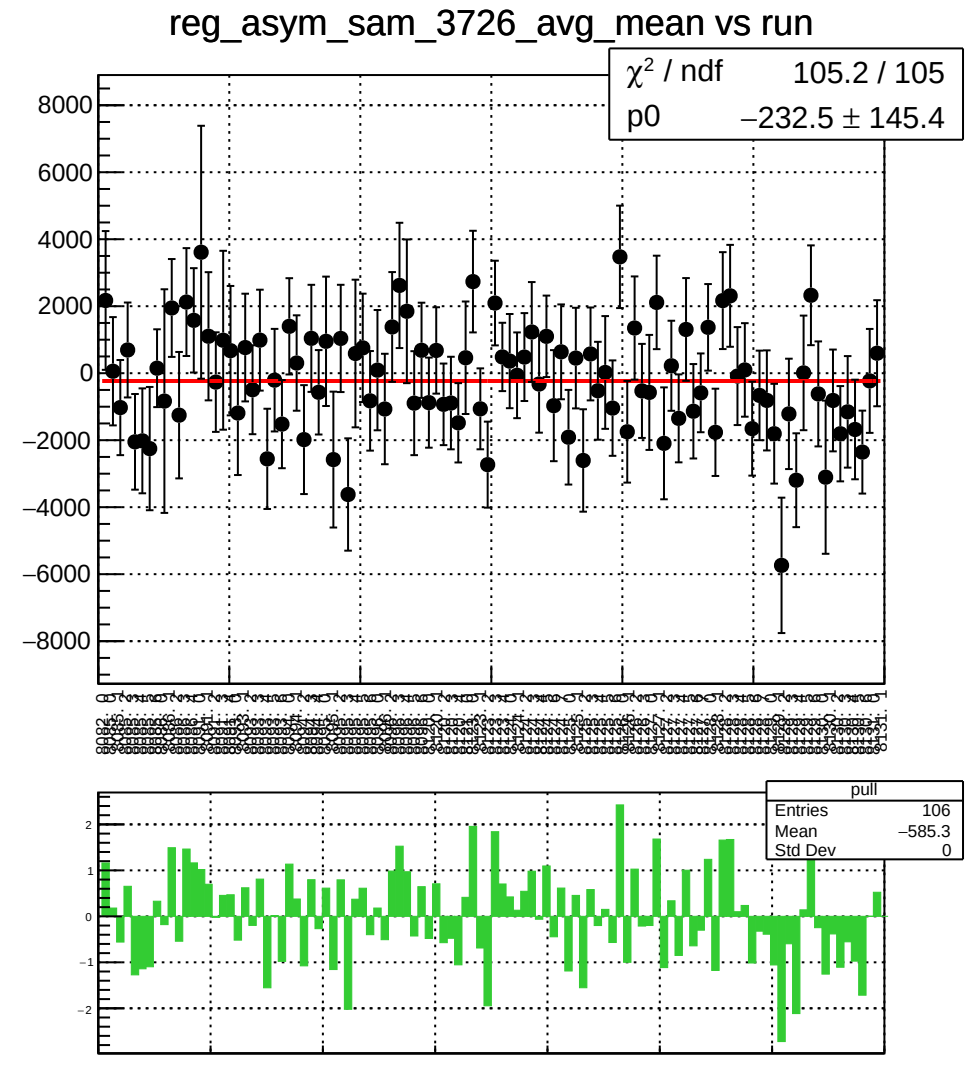

pull1D
Entries 106
Mean −0.03422
Std Dev 0.8749

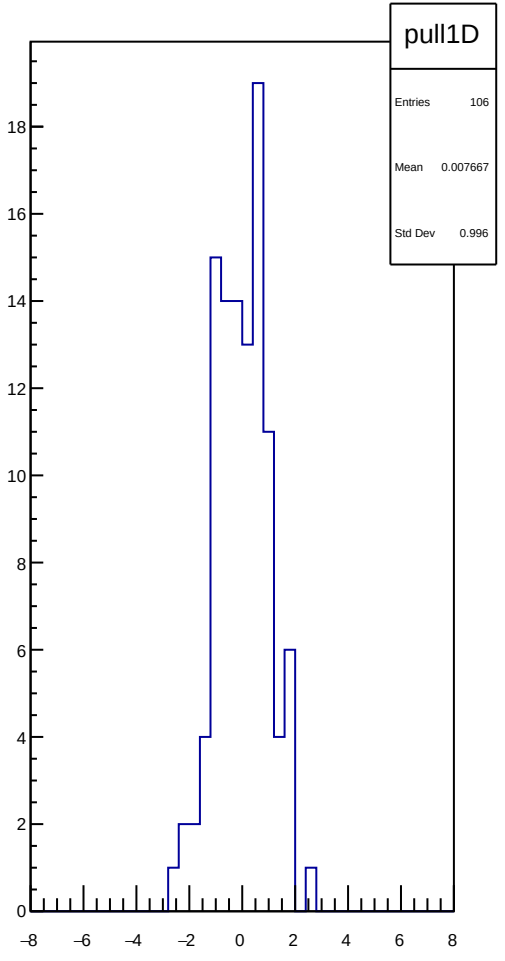

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
$\chi^2$ / ndf 1.026e+05 / 105
p0 26.28 ± 0.01896
90
80
70
60
50
40
30
20

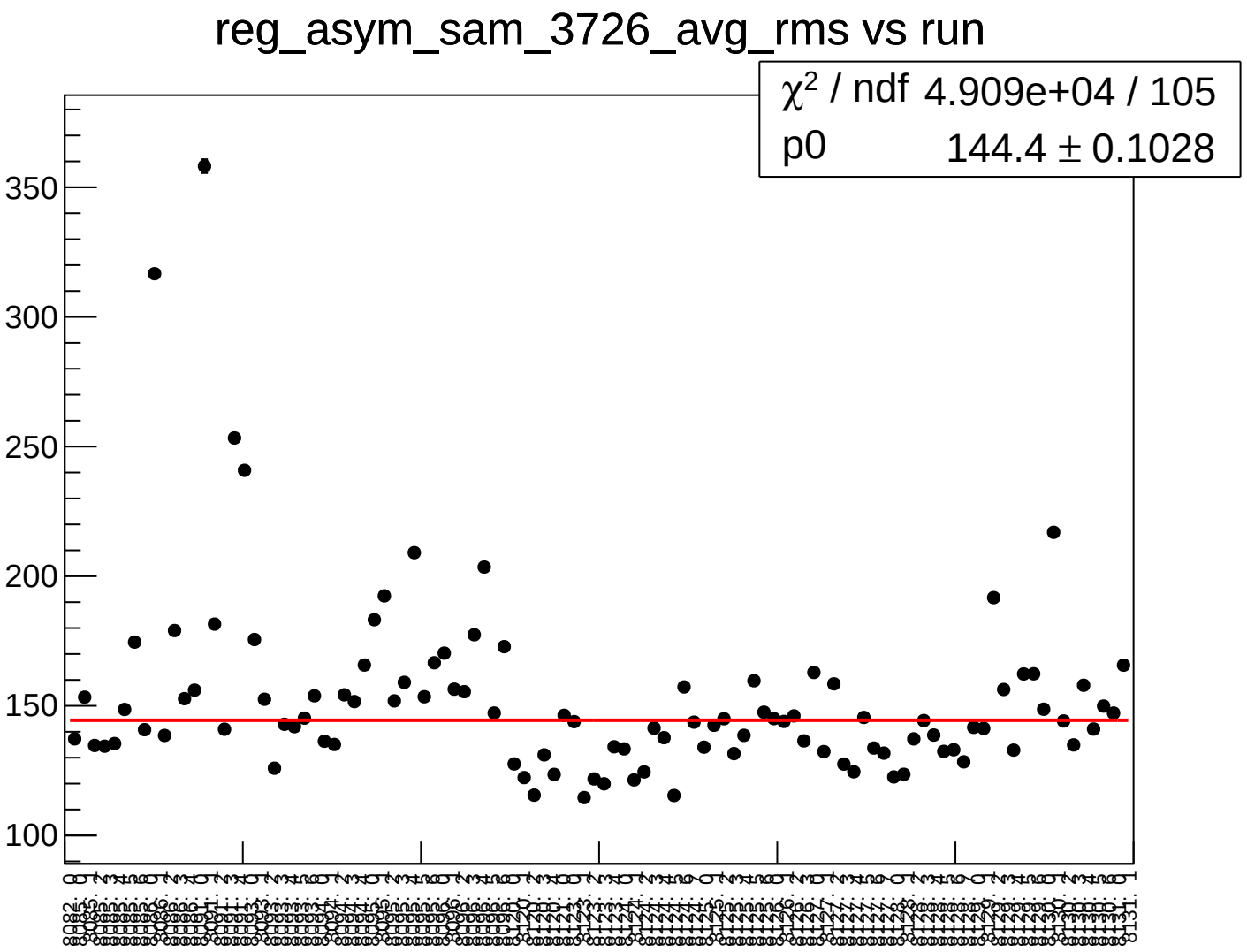

asym_sam_1526_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.69 / 105
p0 −6.292e−14 ± 4.274e−14
pull
Entries 106
Mean 62.17
Std Dev 10.88

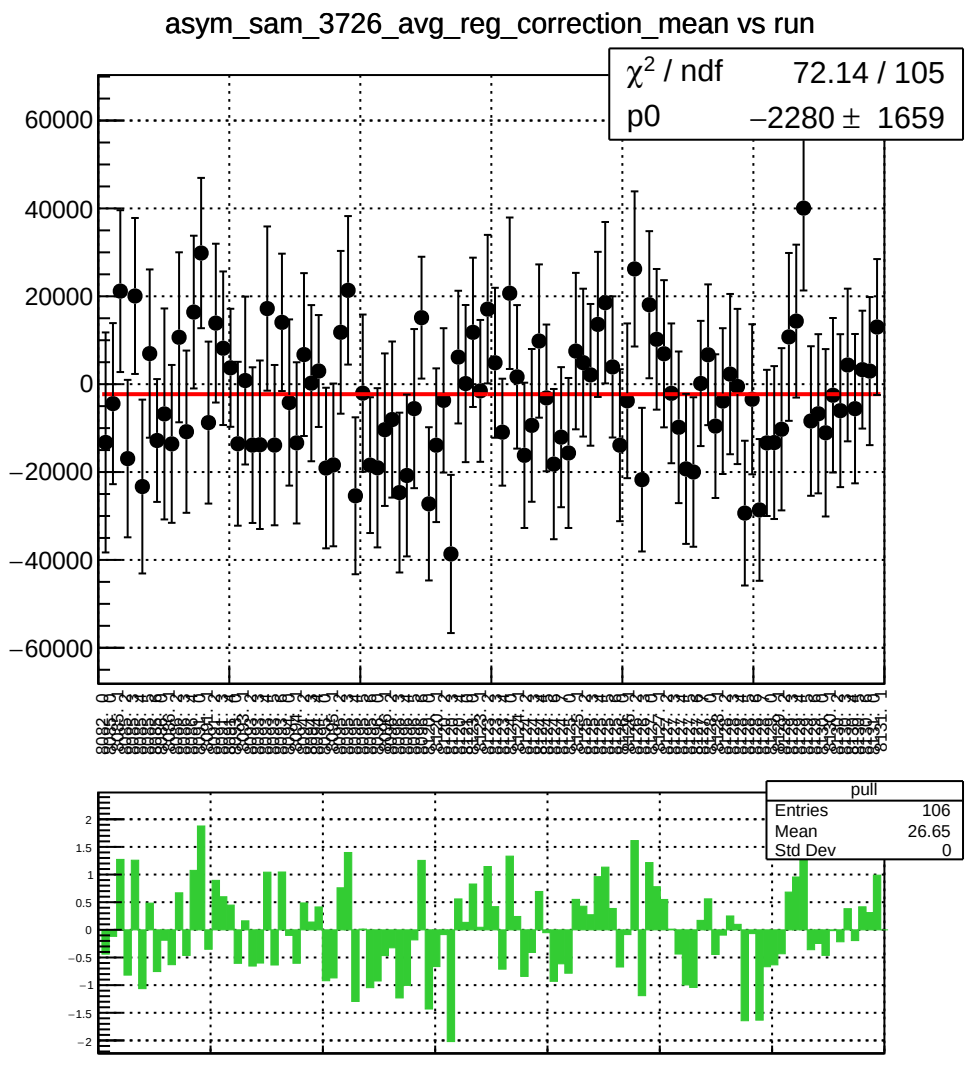

pull1D
Entries 106
Mean −0.09052
Std Dev 0.9205

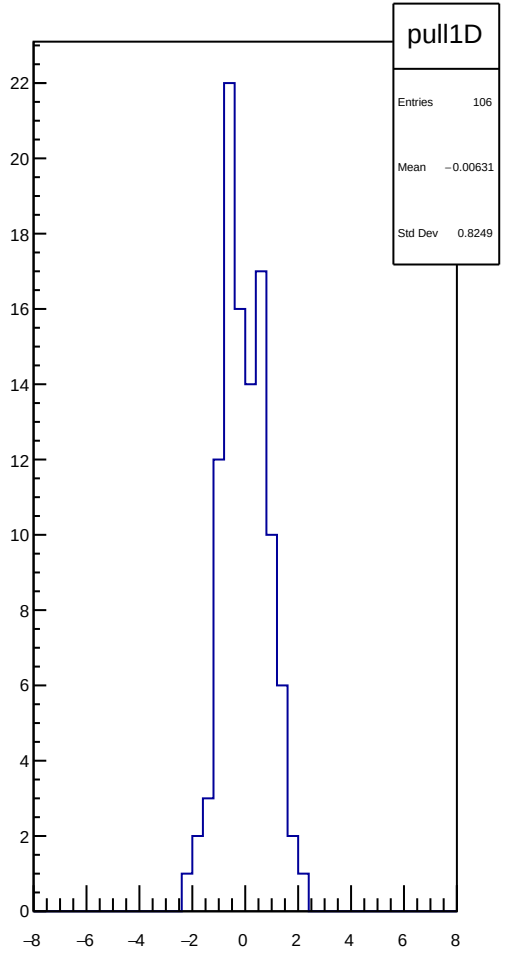

asym_sam_1526_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.886e+05 / 105
p0 3.491e−11 ± 3.022e−14
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

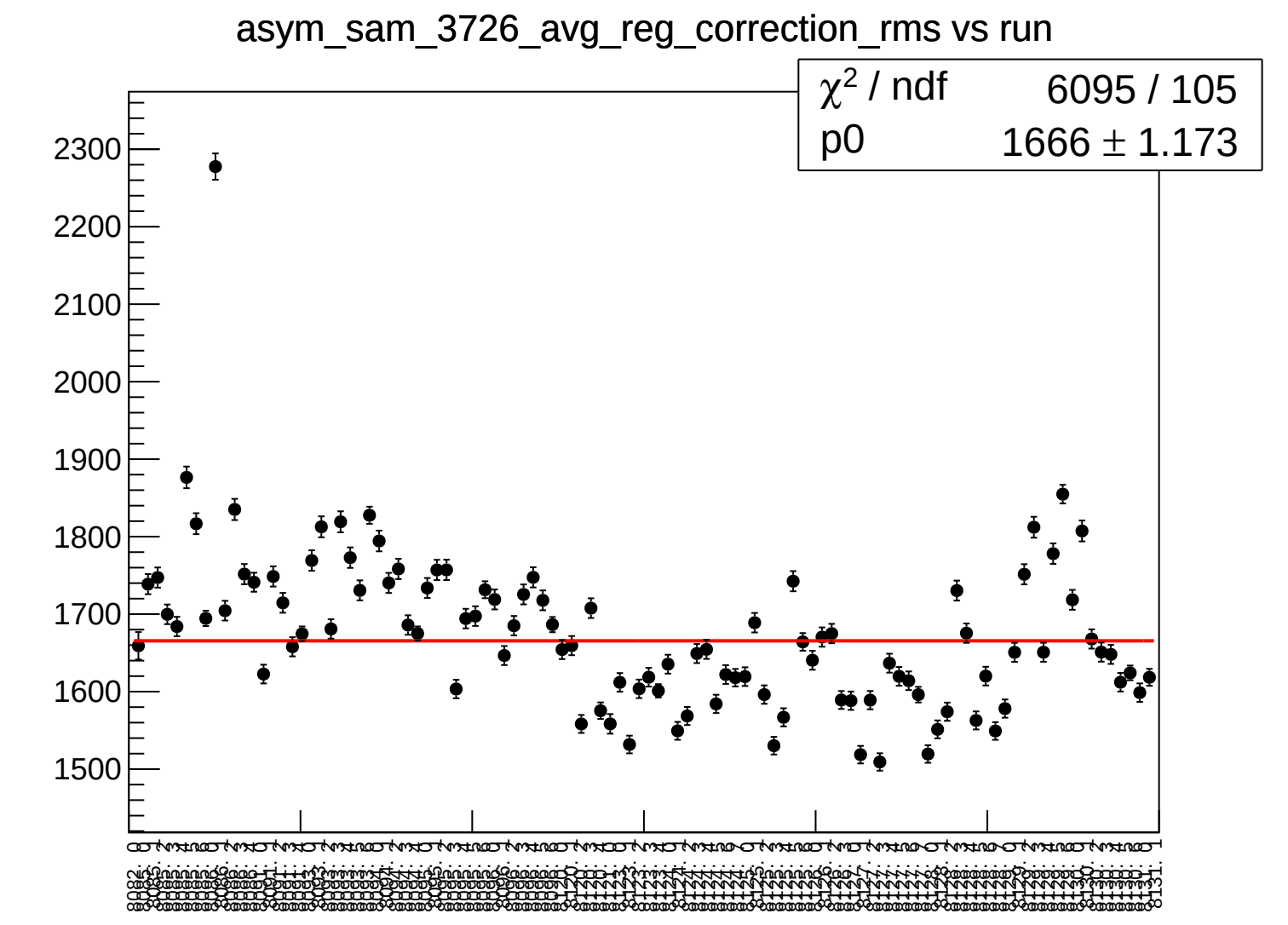

reg_asym_sam_3726_avg_mean vs run
χ² / ndf 105.2 / 105
p0 −232.5 ± 145.4
pull
Entries 106
Mean −585.3
Std Dev 0

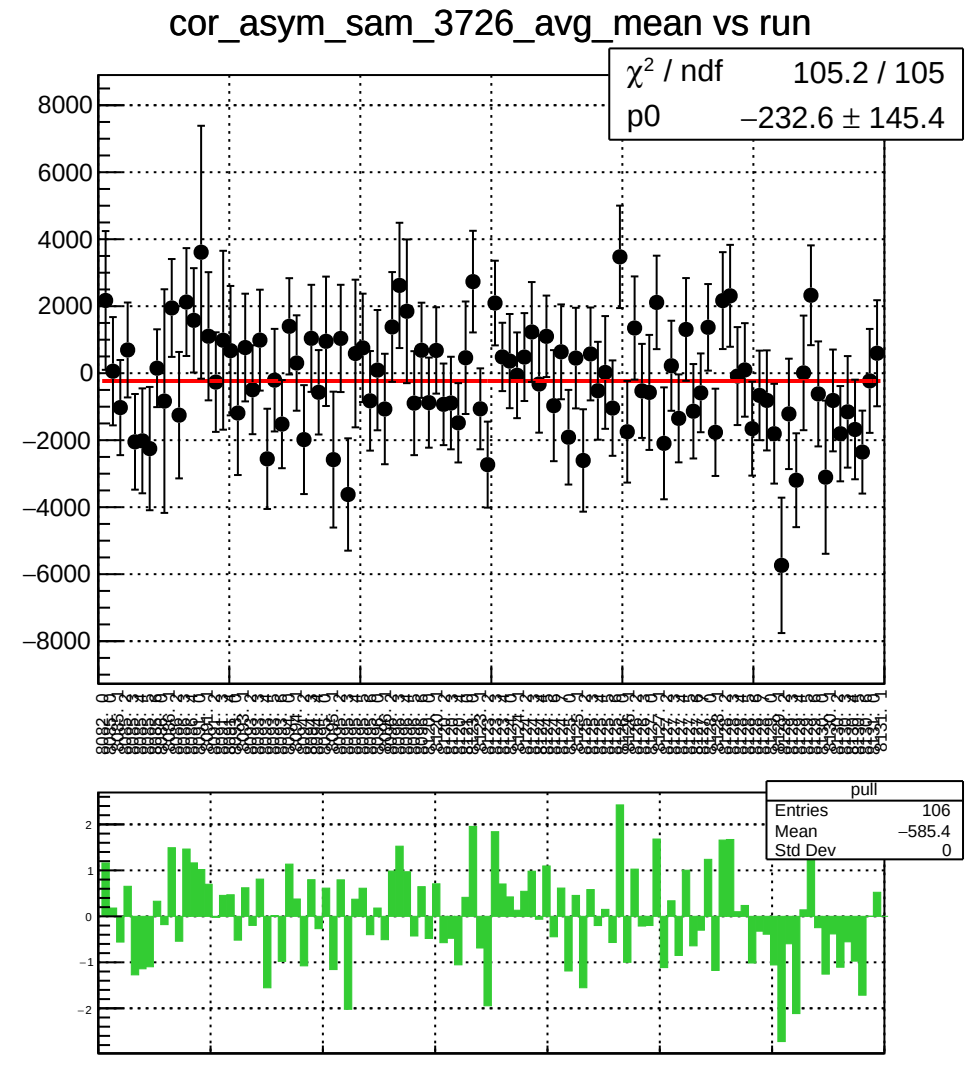

pull1D
Entries 106
Mean 0.007667
Std Dev 0.996

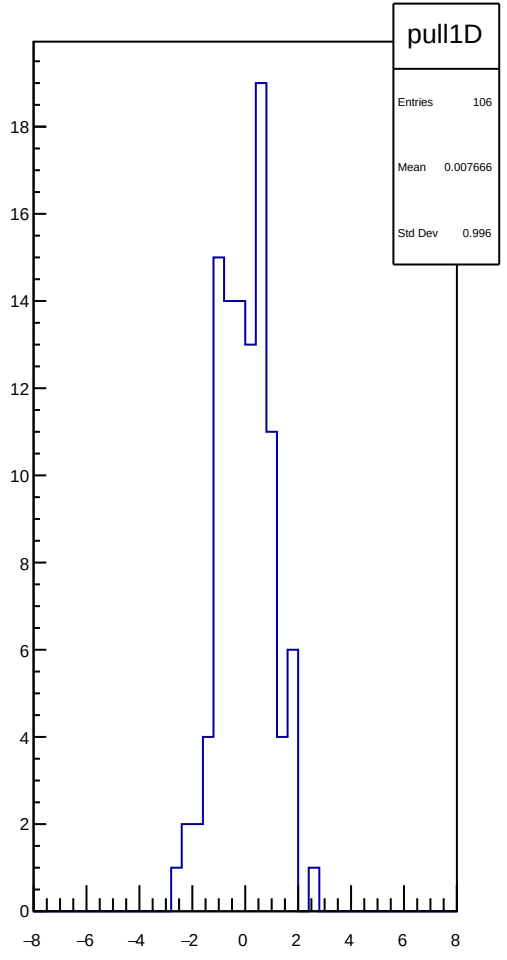

reg_asym_sam_3726_avg_rms vs run
χ² / ndf 4.909e+04 / 105
p0 144.4 ± 0.1028
350
300
250
200
150
100

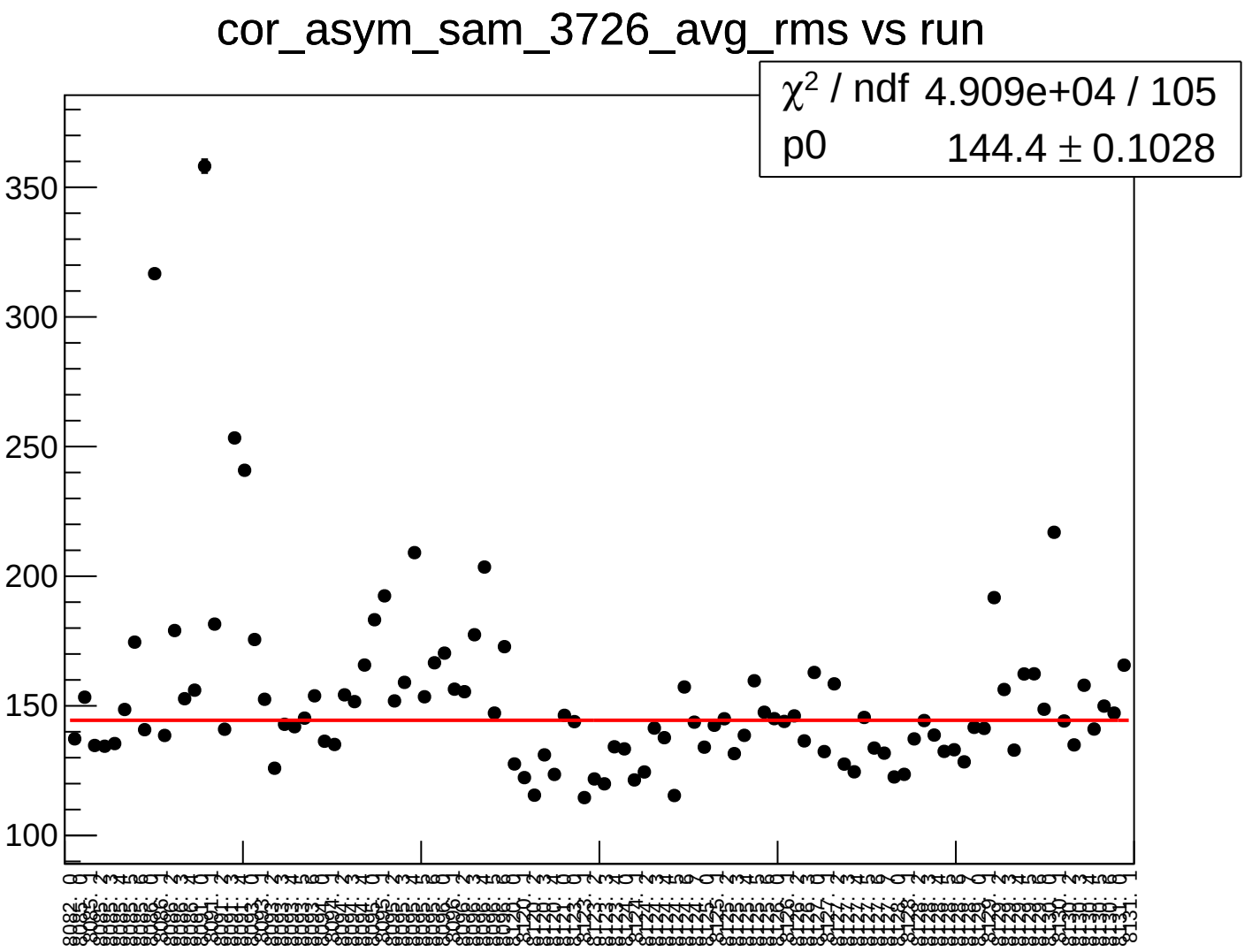

asym_sam_3726_avg_reg_correction_mean vs run
χ² / ndf 72.14 / 105
p0 −2280 ± 1659
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean 26.65
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

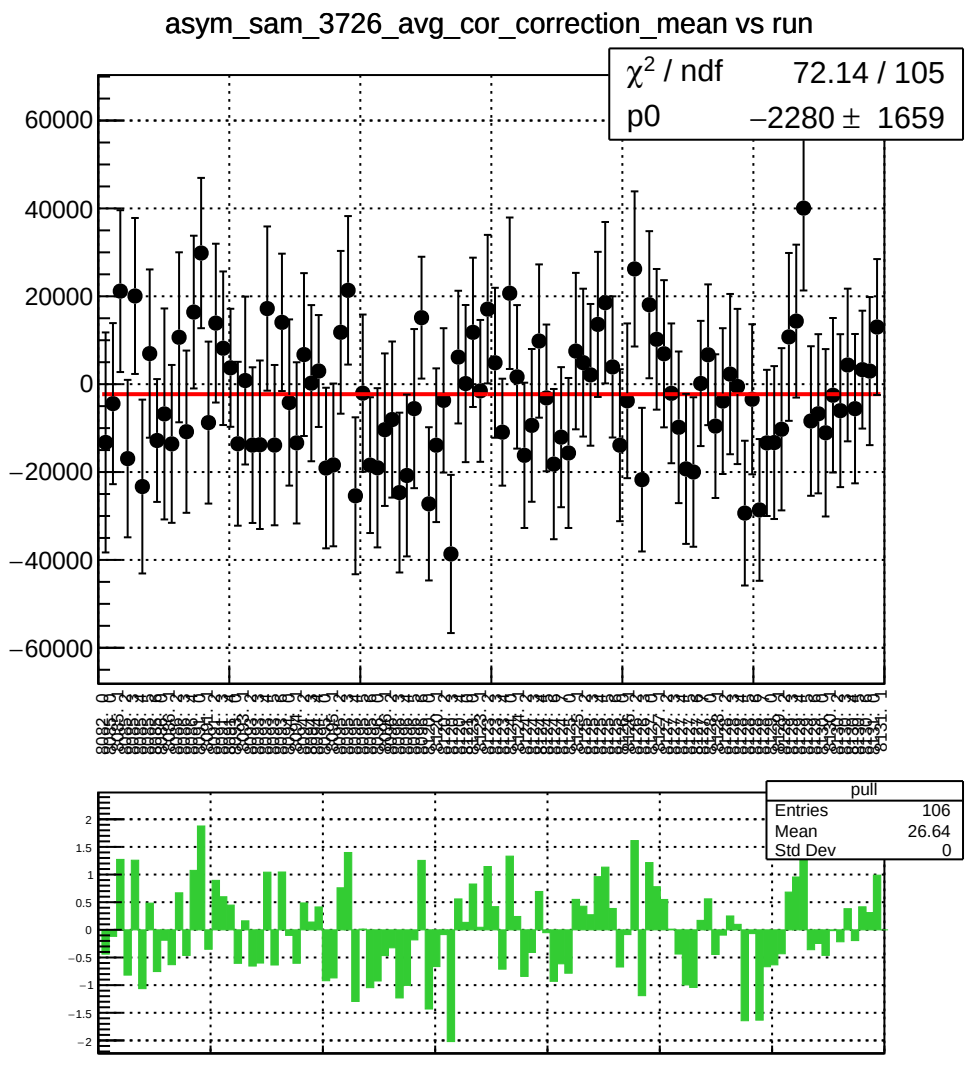

pull1D
Entries 106
Mean −0.00631
Std Dev 0.8249
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

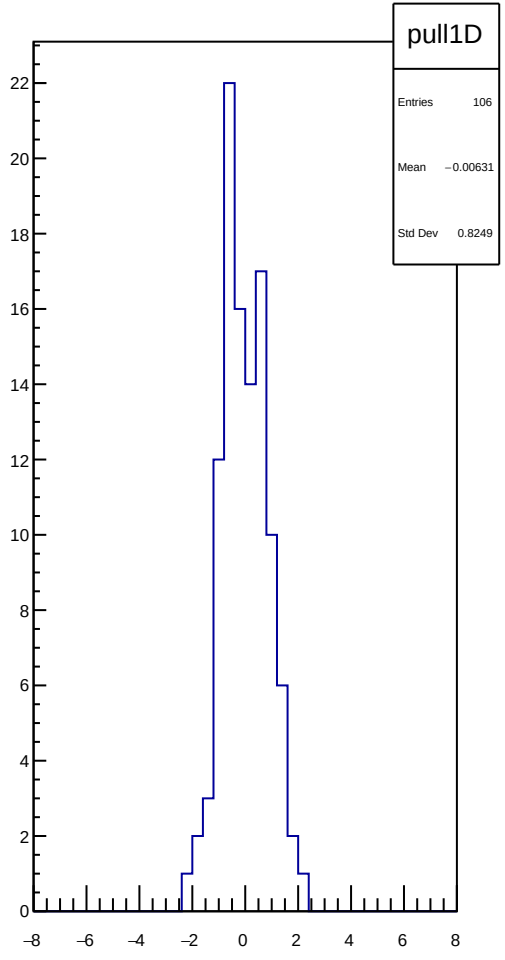

asym_sam_3726_avg_reg_correction_rms vs run
χ² / ndf 6095 / 105
p0 1666 ± 1.173
2300
2200
2100
2000
1900
1800
1700
1600
1500

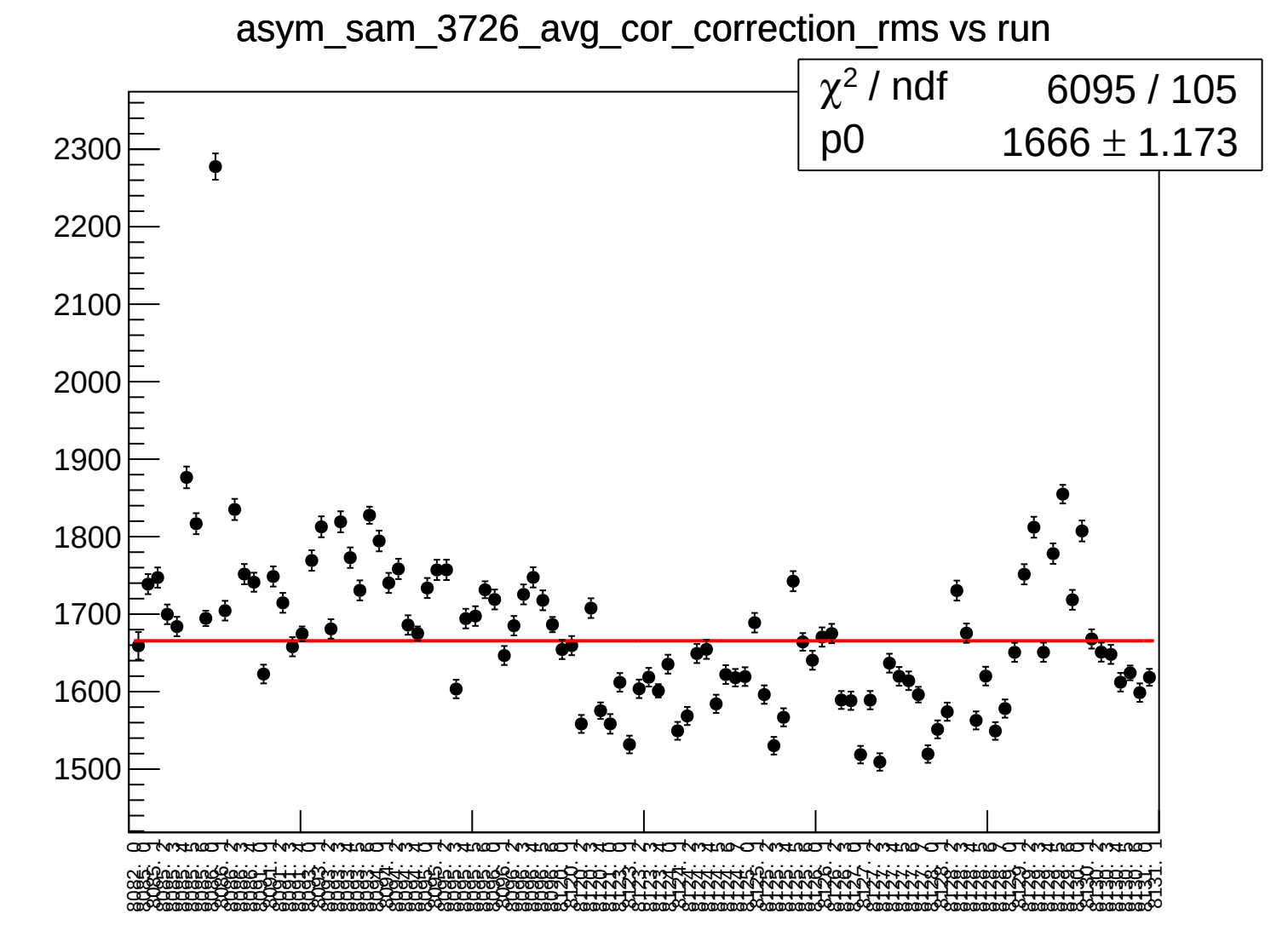

cor_asym_sam_3726_avg_mean vs run
χ² / ndf 105.2 / 105
p0 −232.6 ± 145.4
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 106
Mean −585.4
Std Dev 0
2
1
0
−1
−2

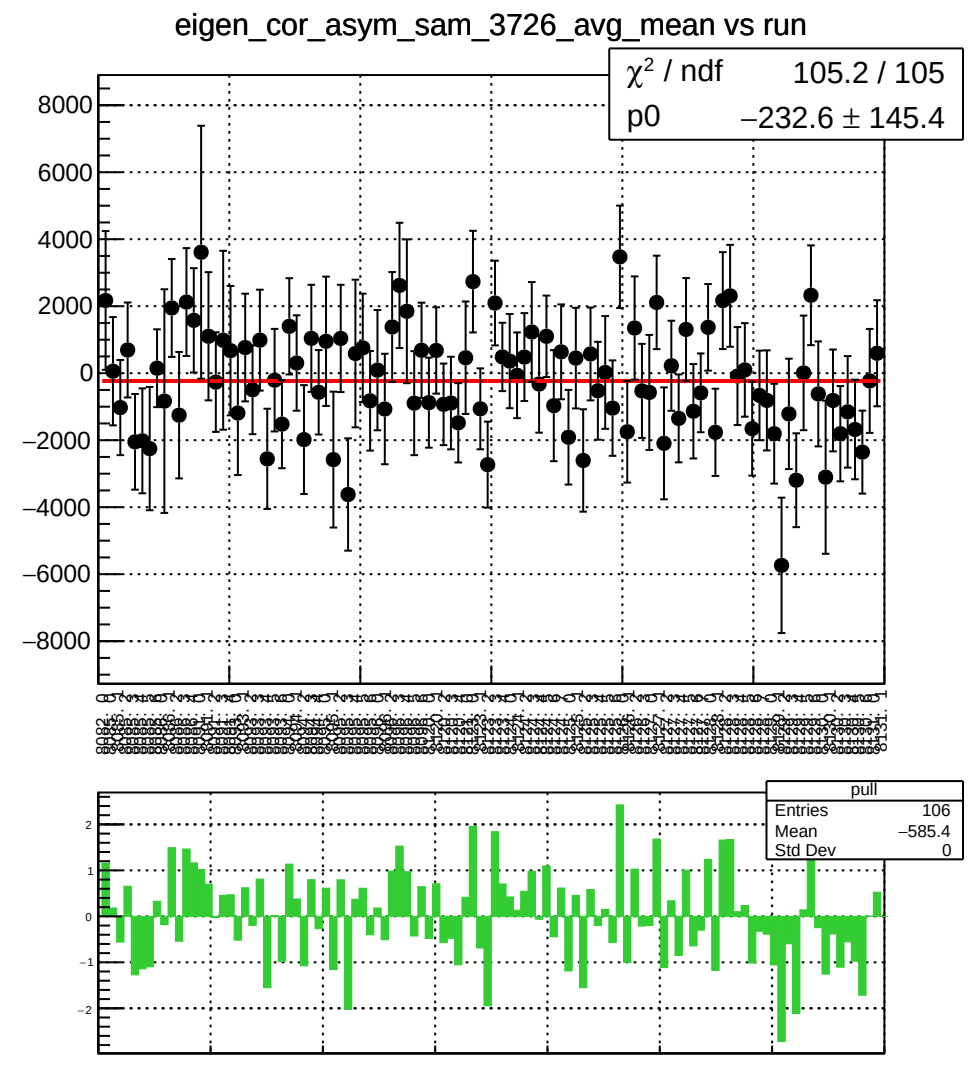

pull1D
Entries 106
Mean 0.007666
Std Dev 0.996
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

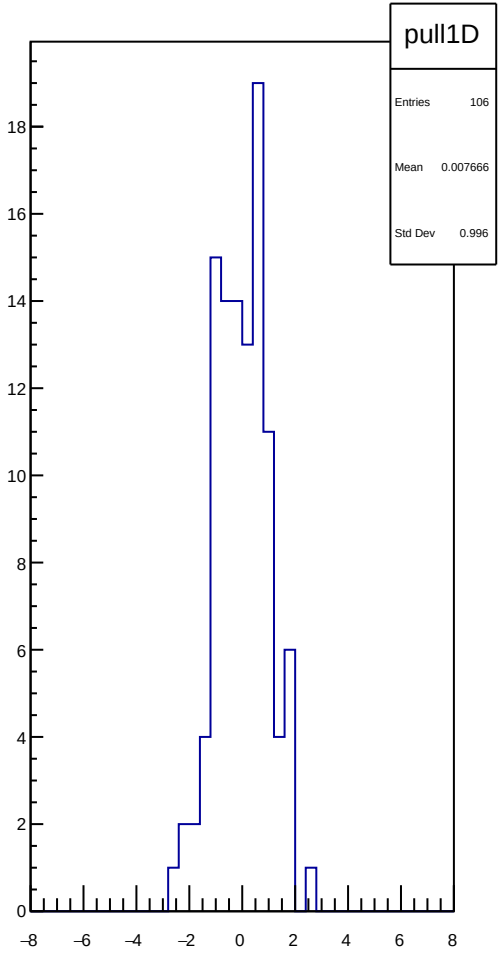

cor_asym_sam_3726_avg_rms vs run
χ² / ndf 4.909e+04 / 105
p0 144.4 ± 0.1028
350
300
250
200
150
100


asym_sam_3726_avg_cor_correction_mean vs run
χ² / ndf 72.14 / 105
p0 −2280 ± 1659
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean 26.64
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 106
Mean −0.00631
Std Dev 0.8249
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_cor_correction_rms vs run
χ² / ndf 6095 / 105
p0 1666 ± 1.173
2300
2200
2100
2000
1900
1800
1700
1600
1500


eigen_cor_asym_sam_3726_avg_mean vs run
χ² / ndf 105.2 / 105
p0 −232.6 ± 145.4
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 106
Mean −585.4
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 106
Mean 0.007666
Std Dev 0.996
18
16
14
12
10
8
6
4
2
0
−8
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−4
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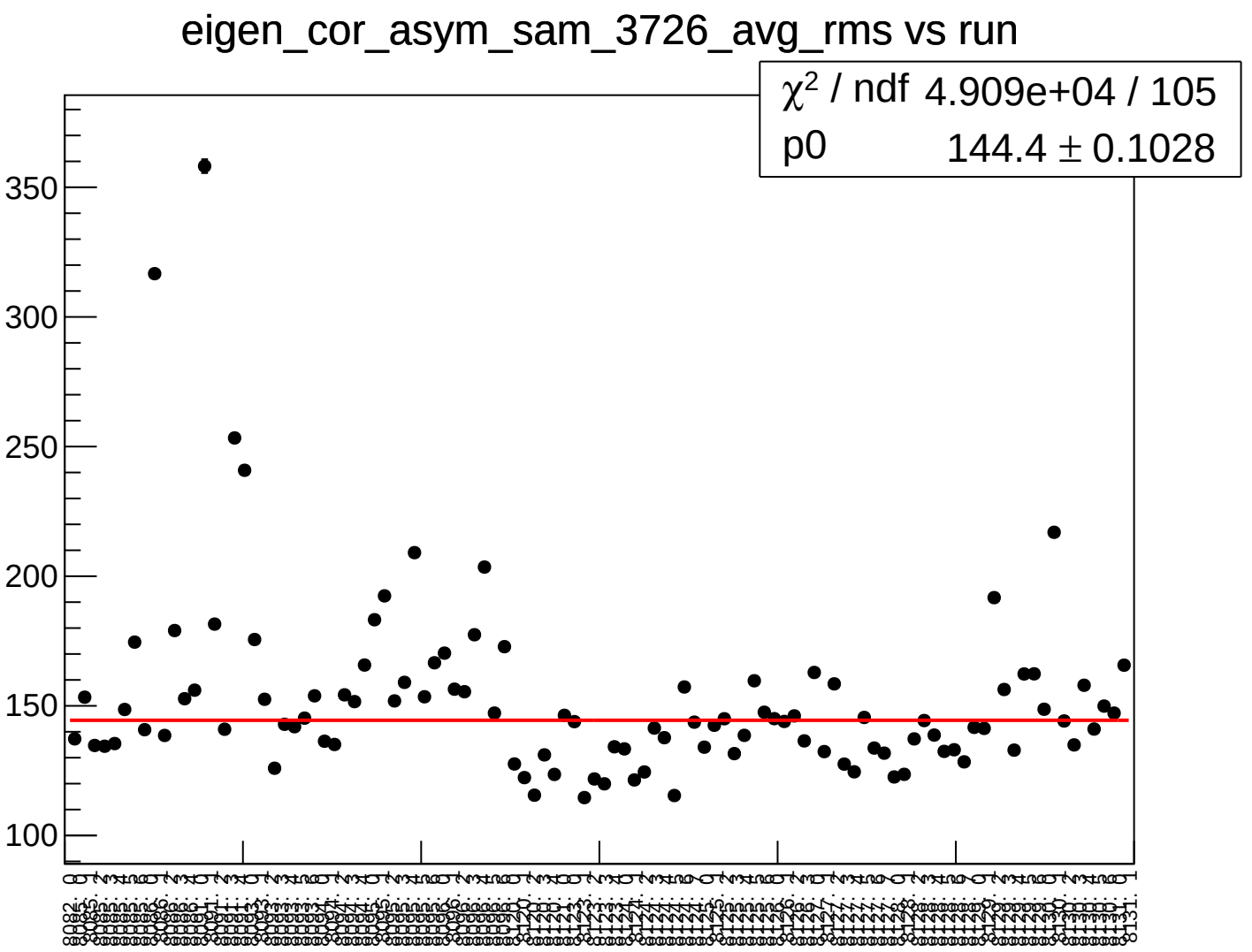
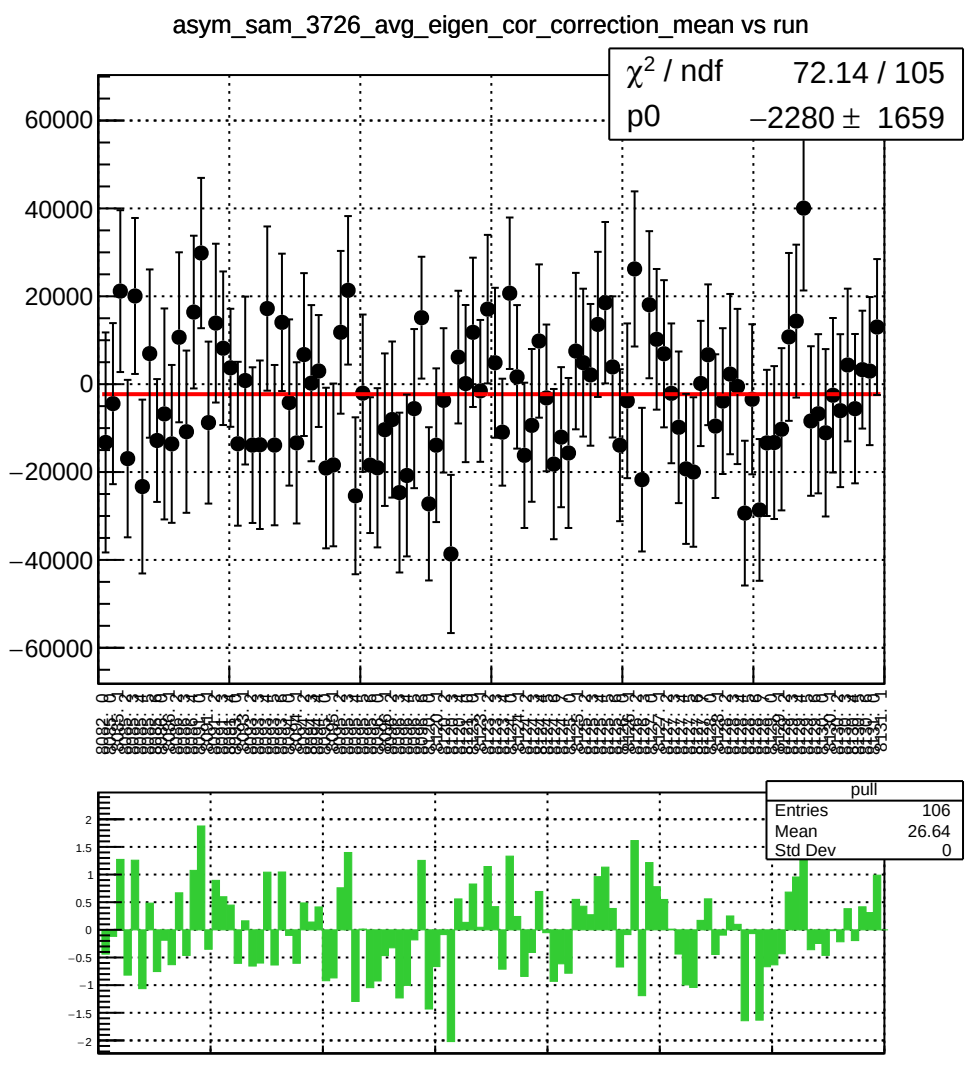
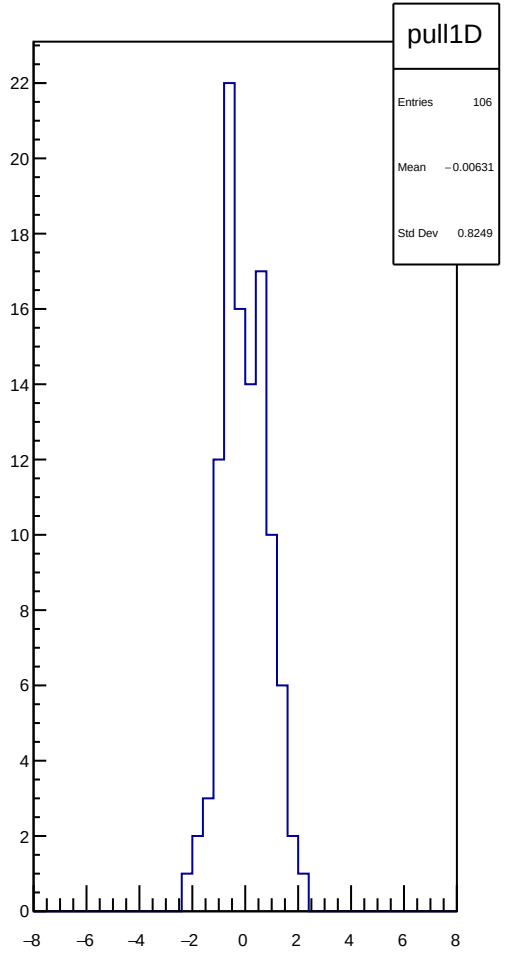
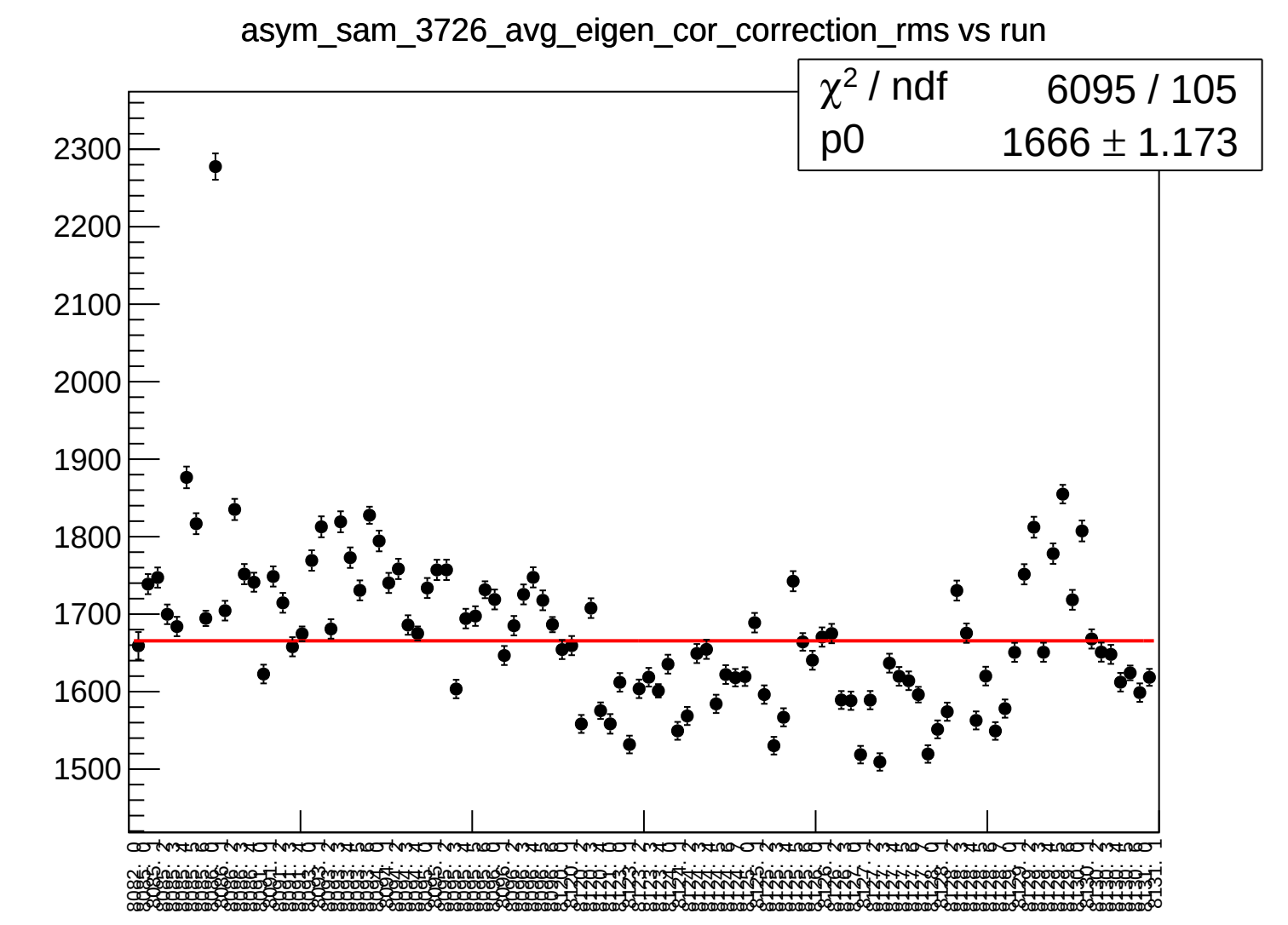
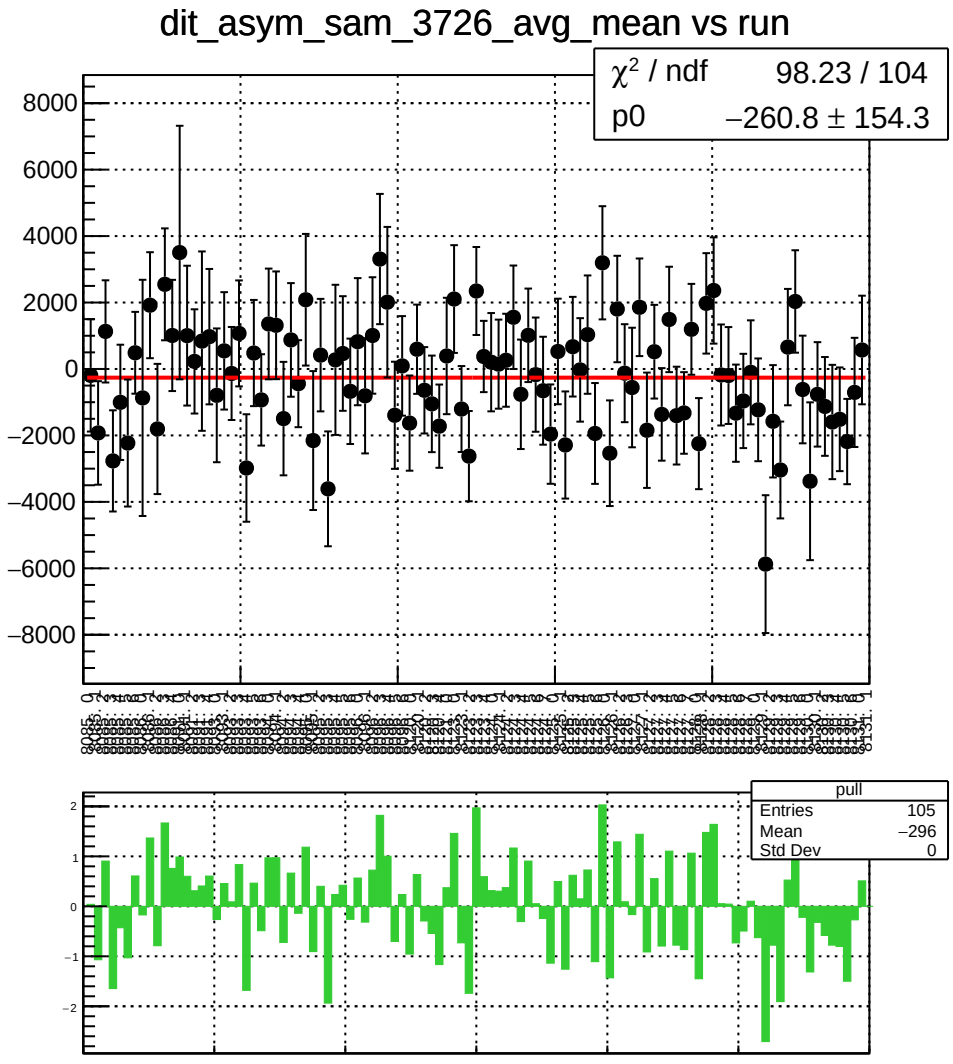
2
4
6
8

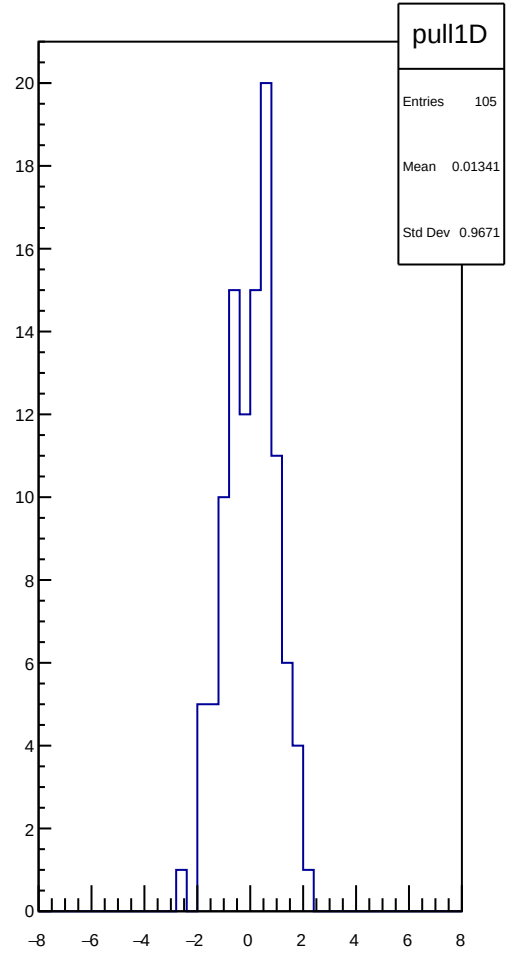

eigen_cor_asym_sam_3726_avg_rms vs run
χ² / ndf 4.909e+04 / 105
p0 144.4 ± 0.1028
350
300
250
200
150
100

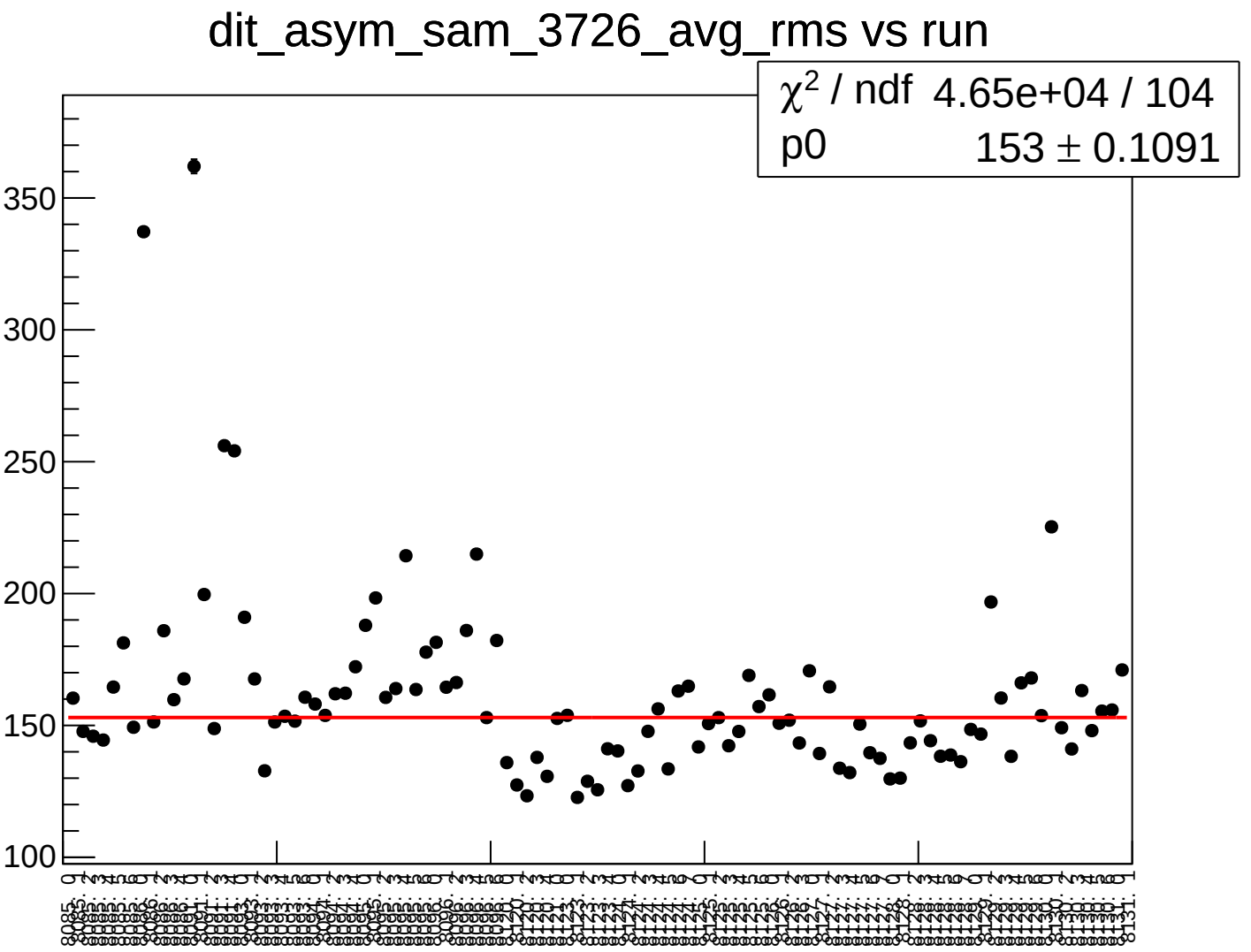

asym_sam_3726_avg_eigen_cor_correction_mean vs run
χ² / ndf 72.14 / 105
p0 −2280 ± 1659
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean 26.64
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

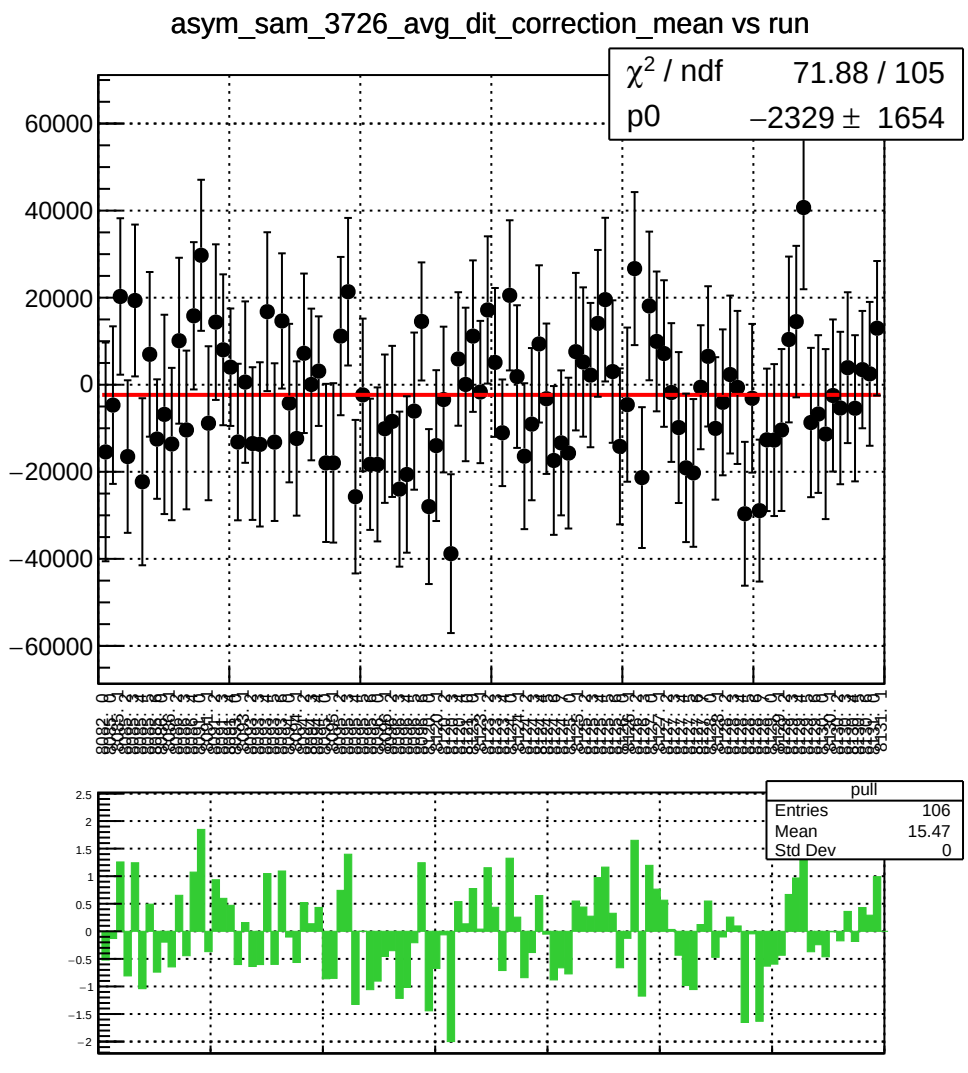

pull1D
Entries 106
Mean −0.00631
Std Dev 0.8249
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

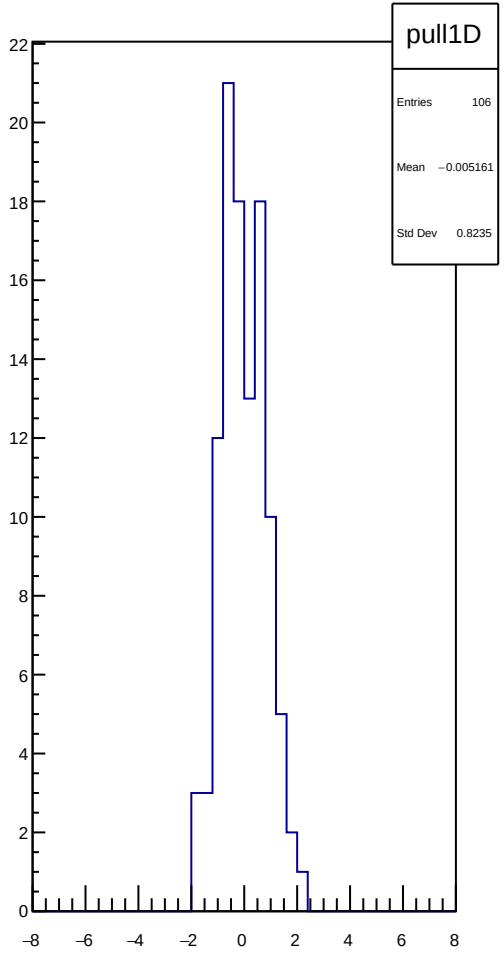

asym_sam_3726_avg_eigen_cor_correction_rms vs run
$\chi^2$ / ndf 6095 / 105
p0 1666 ± 1.173
2300
2200
2100
2000
1900
1800
1700
1600
1500

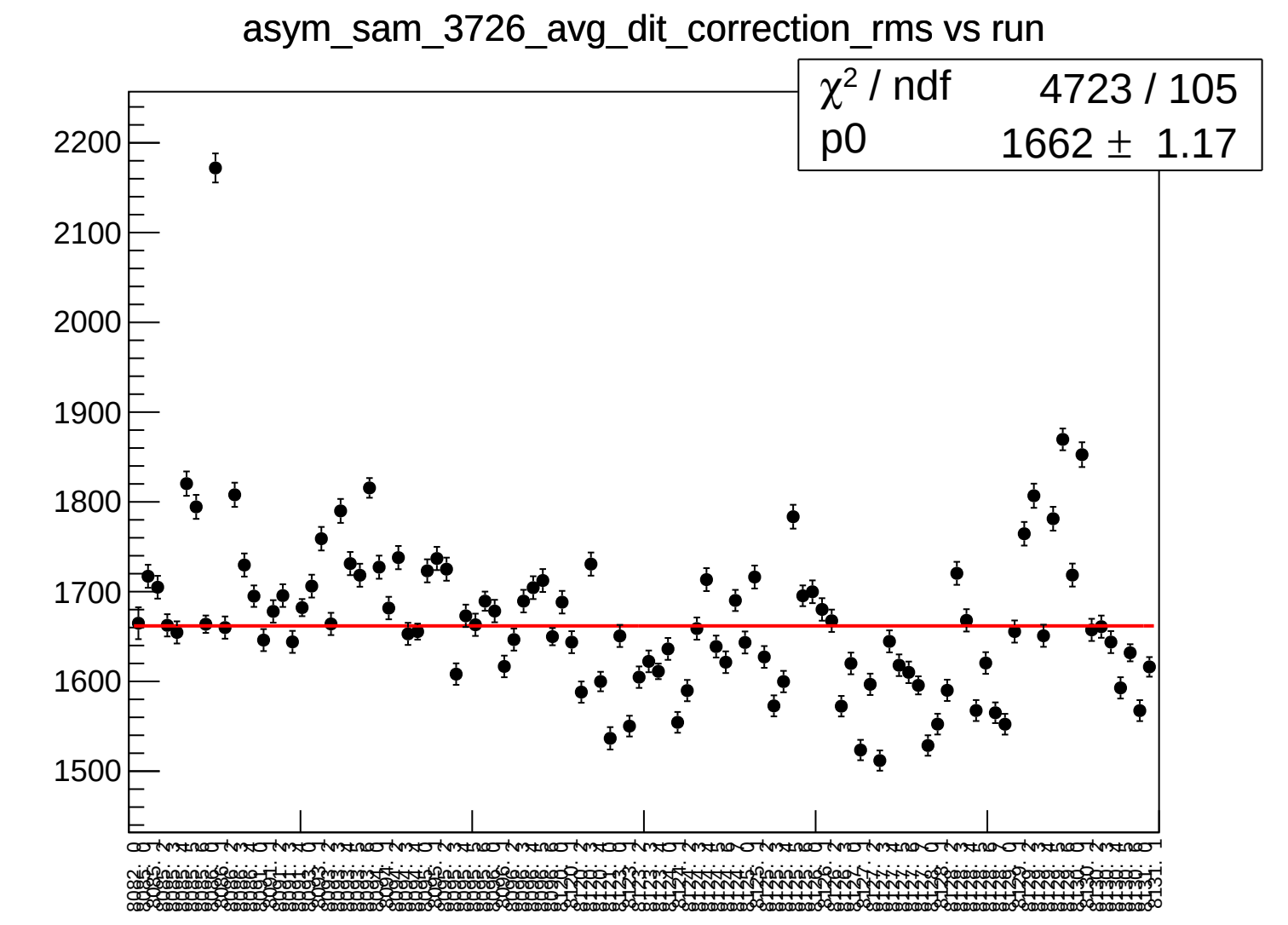

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 98.23 / 104
p0 −260.8 ± 154.3
pull
Entries 105
Mean −296
Std Dev 0

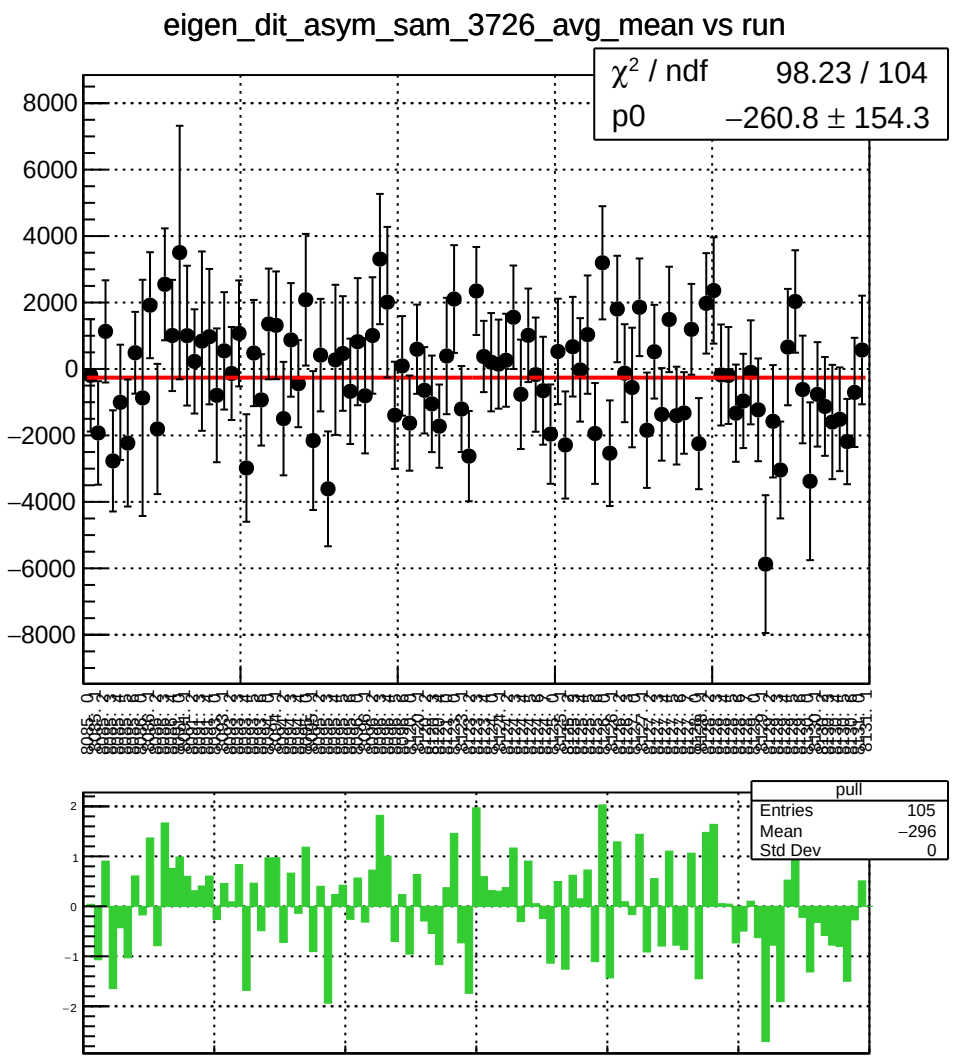

pull1D
Entries 105
Mean 0.01341
Std Dev 0.9671

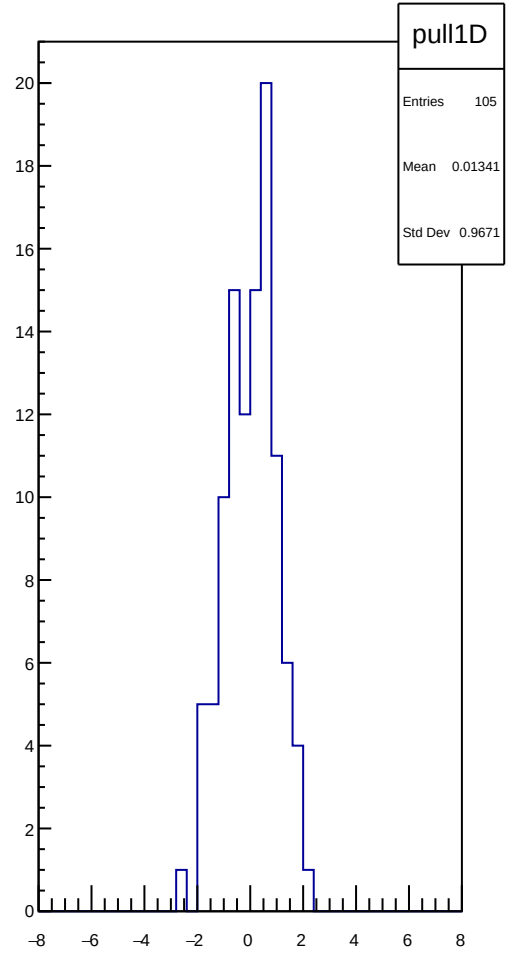

dit_asym_sam_3726_avg_rms vs run
χ² / ndf 4.65e+04 / 104
p0 153 ± 0.1091
350
300
250
200
150
100

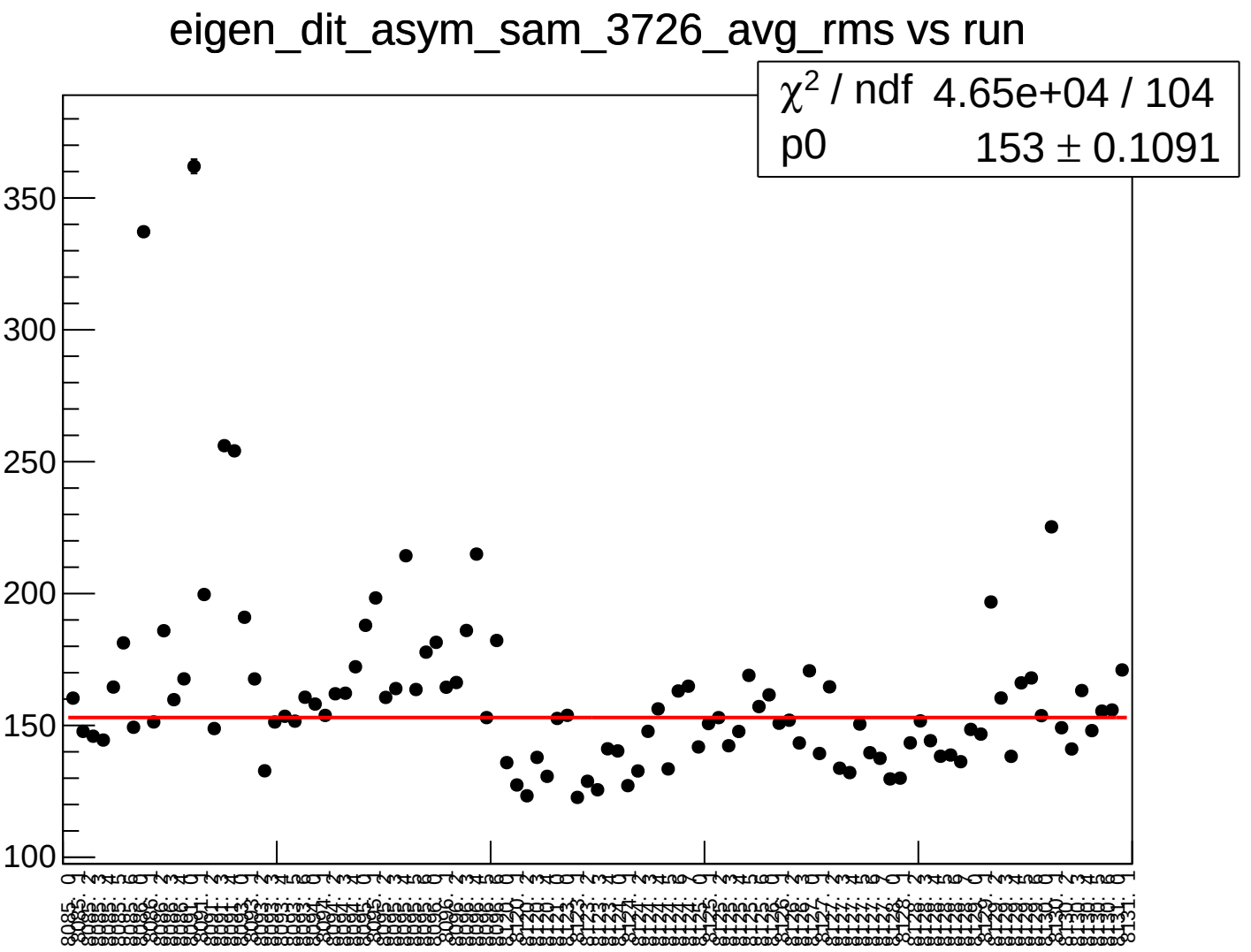

asym_sam_3726_avg_dit_correction_mean vs run
χ² / ndf 71.88 / 105
p0 −2329 ± 1654
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean 15.47
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

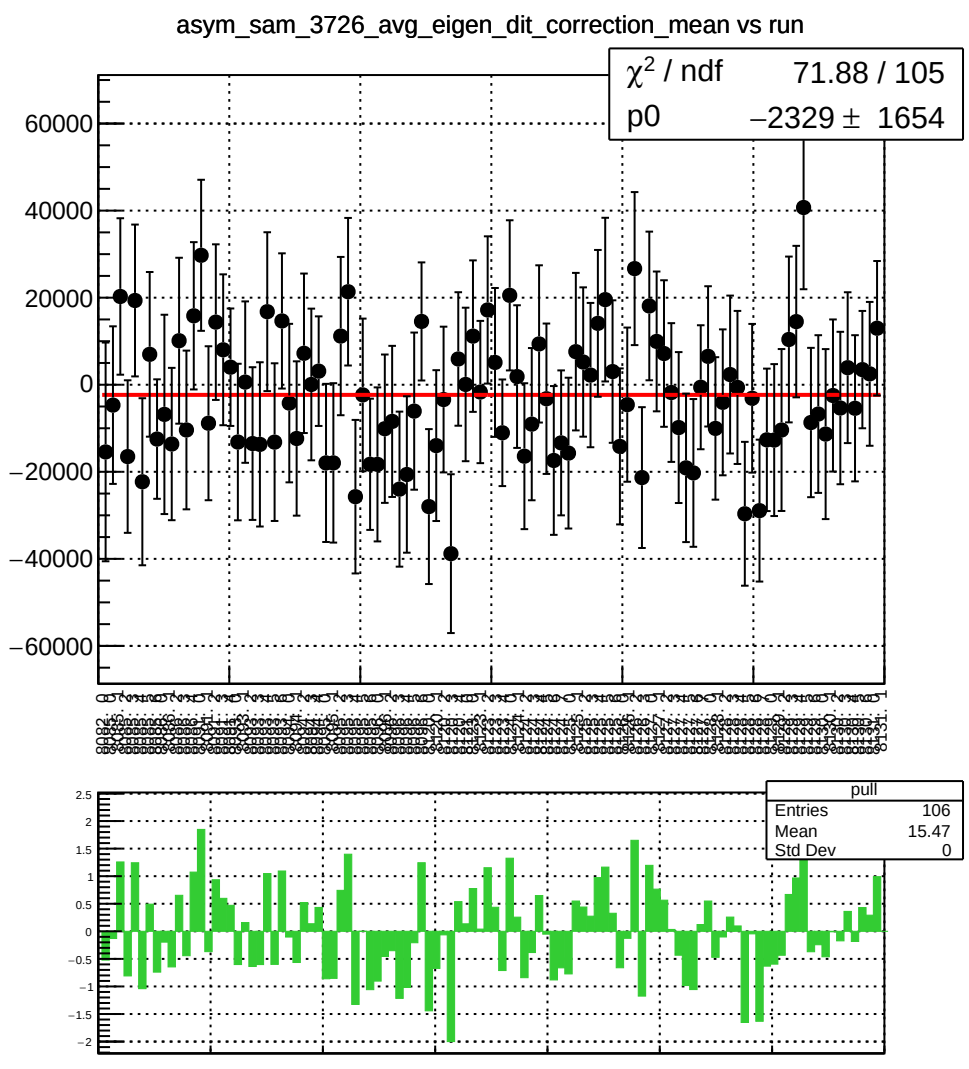

pull1D
Entries 106
Mean −0.005161
Std Dev 0.8235
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

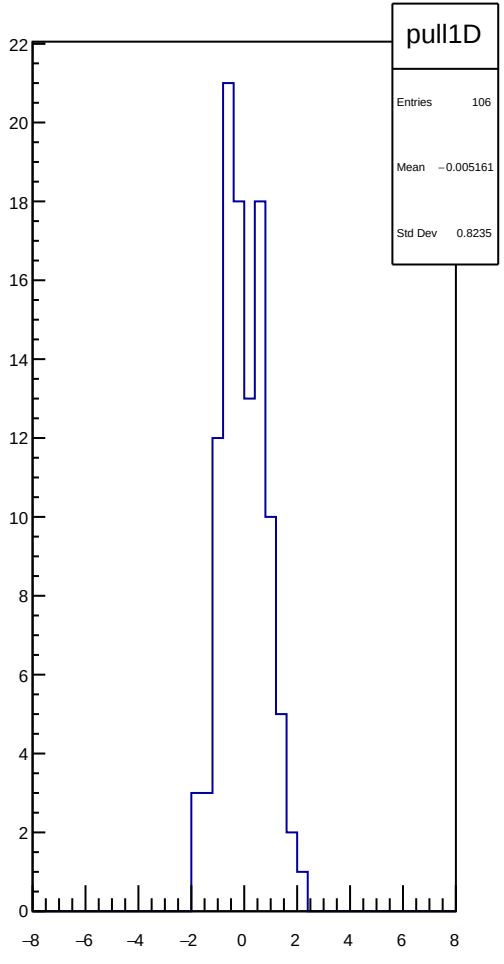

asym_sam_3726_avg_dit_correction_rms vs run
χ² / ndf 4723 / 105
p0 1662 ± 1.17
2200
2100
2000
1900
1800
1700
1600
1500

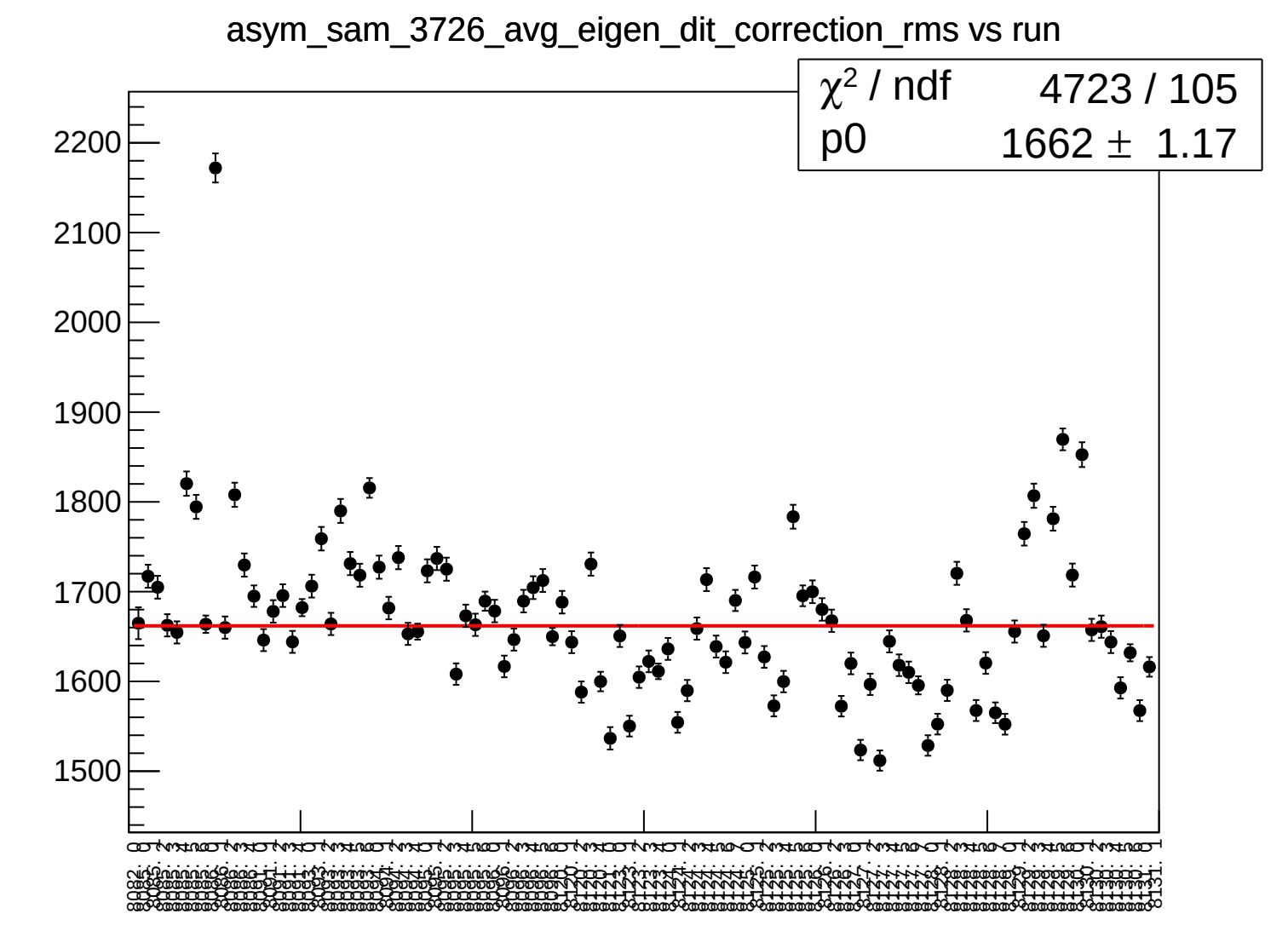

eigen_dit_asym_sam_3726_avg_mean vs run
χ² / ndf 98.23 / 104
p0 −260.8 ± 154.3
pull
Entries 105
Mean −296
Std Dev 0

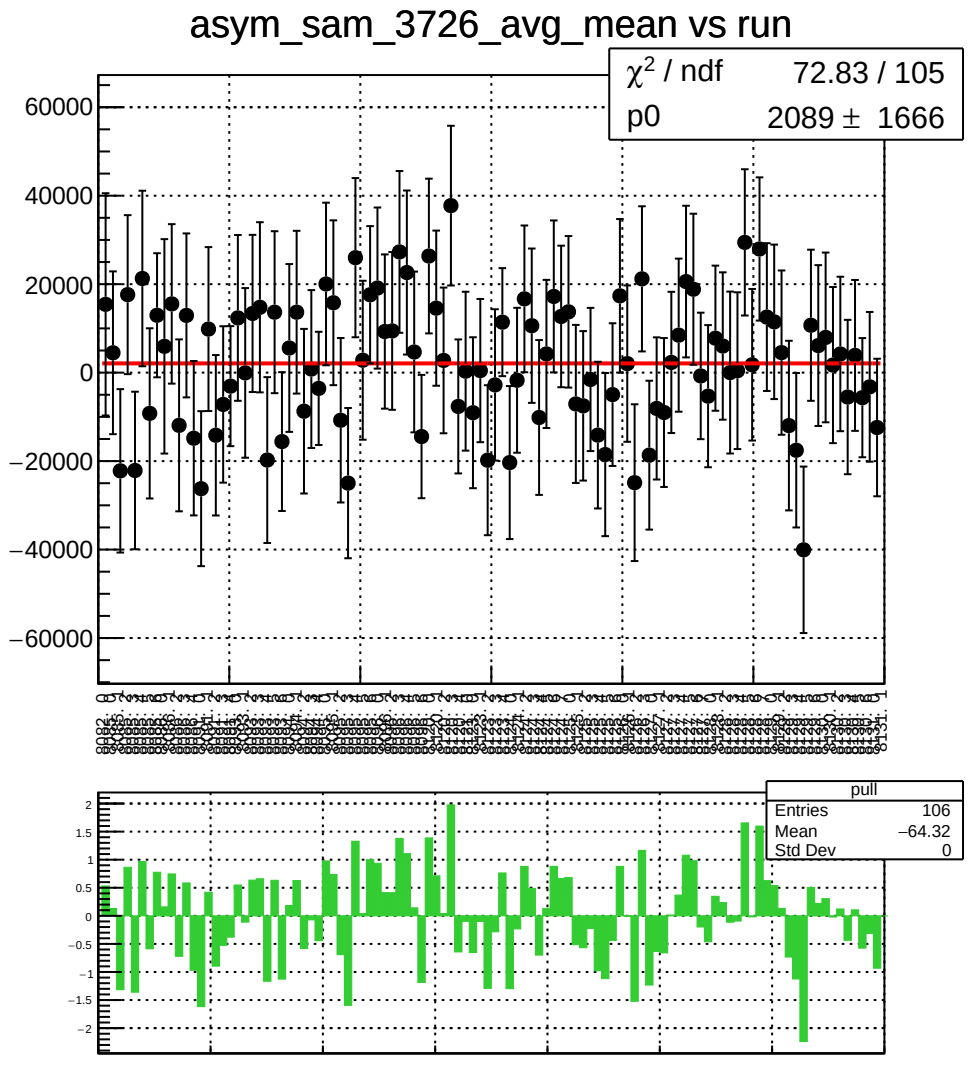

pull1D
Entries 105
Mean 0.01341
Std Dev 0.9671

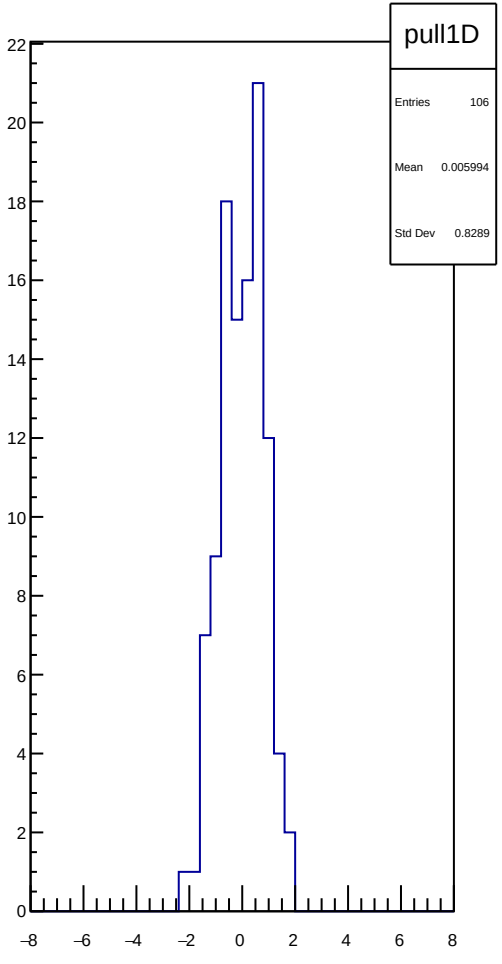

eigen_dit_asym_sam_3726_avg_rms vs run
χ² / ndf 4.65e+04 / 104
p0 153 ± 0.1091
350
300
250
200
150
100

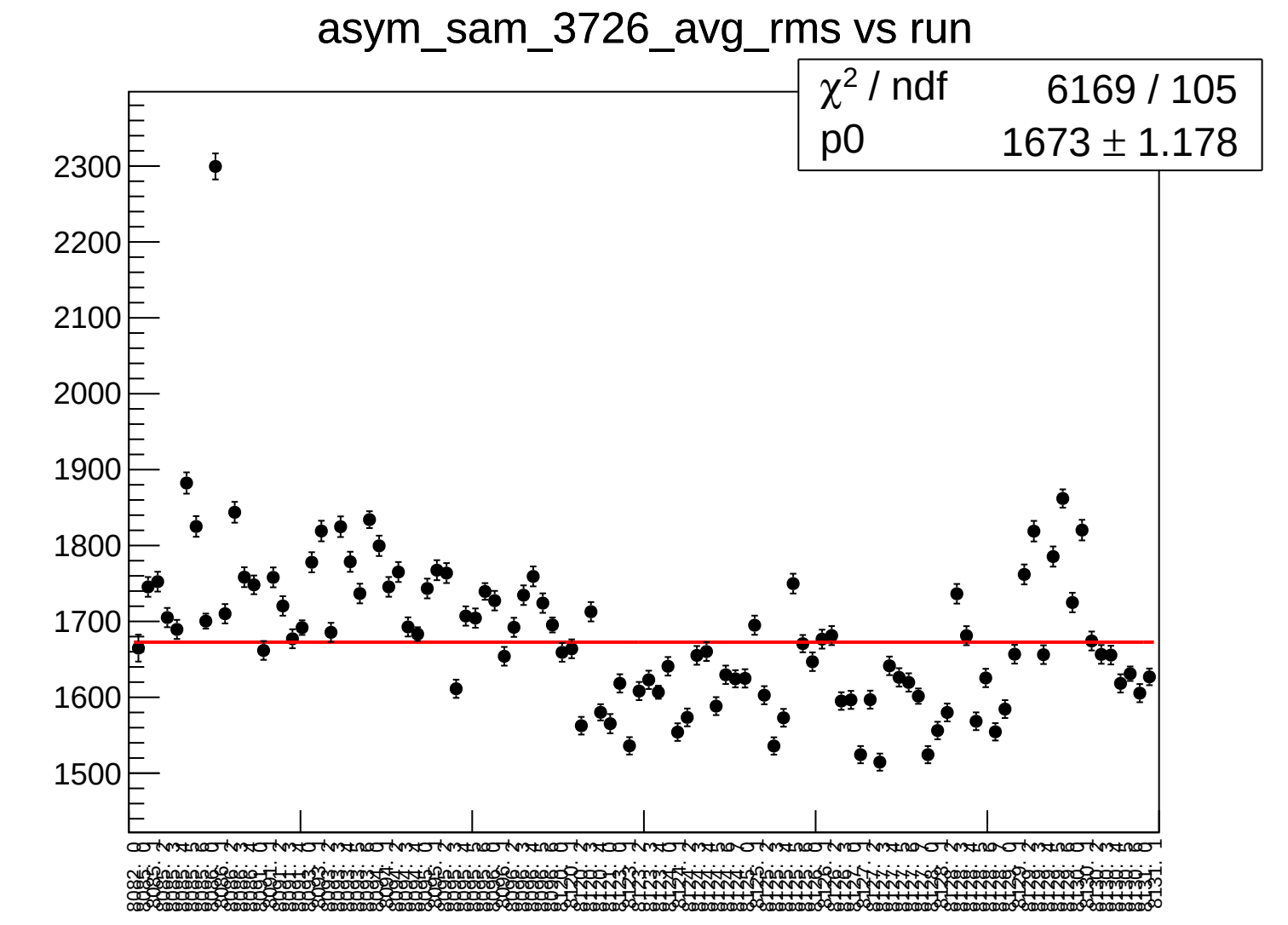

asym_sam_3726_avg_eigen_dit_correction_mean vs run
χ² / ndf 71.88 / 105
p0 −2329 ± 1654
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean 15.47
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

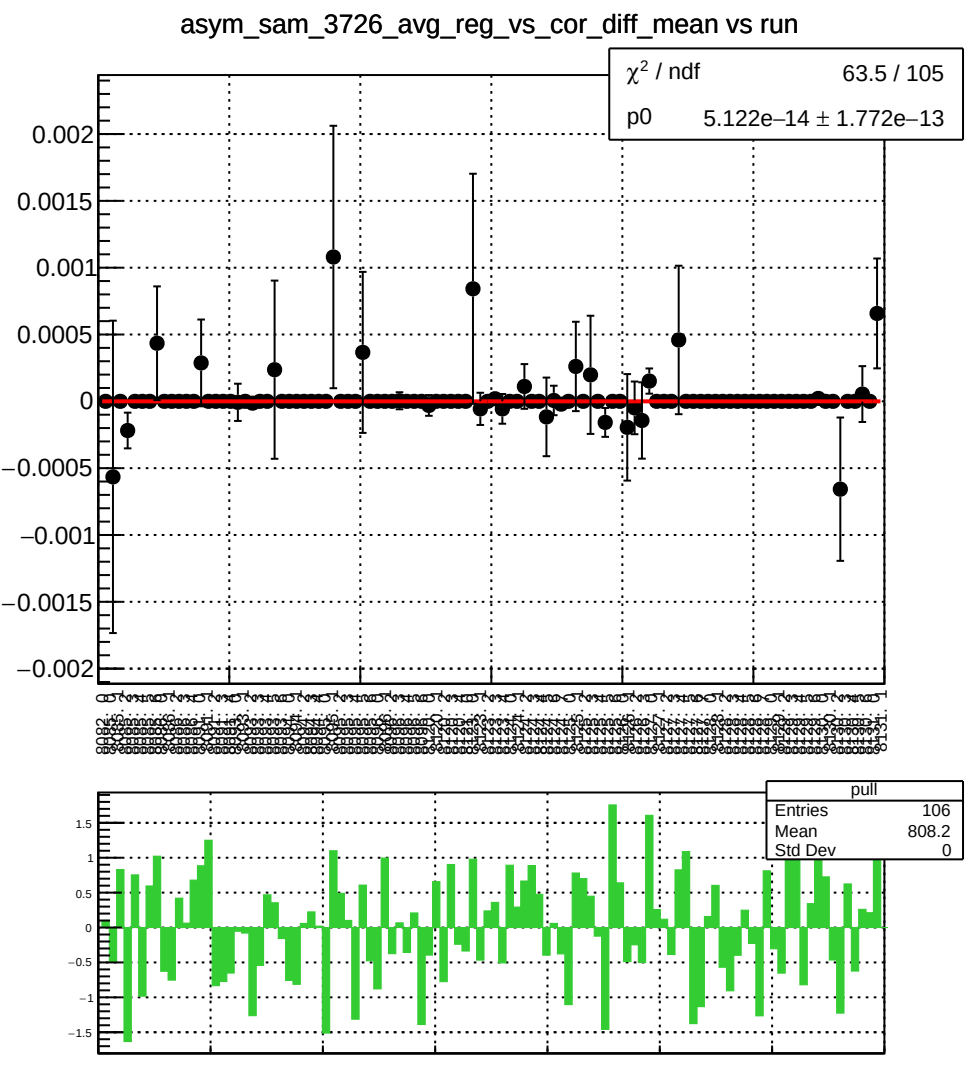

pull1D
Entries 106
Mean −0.005161
Std Dev 0.8235
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

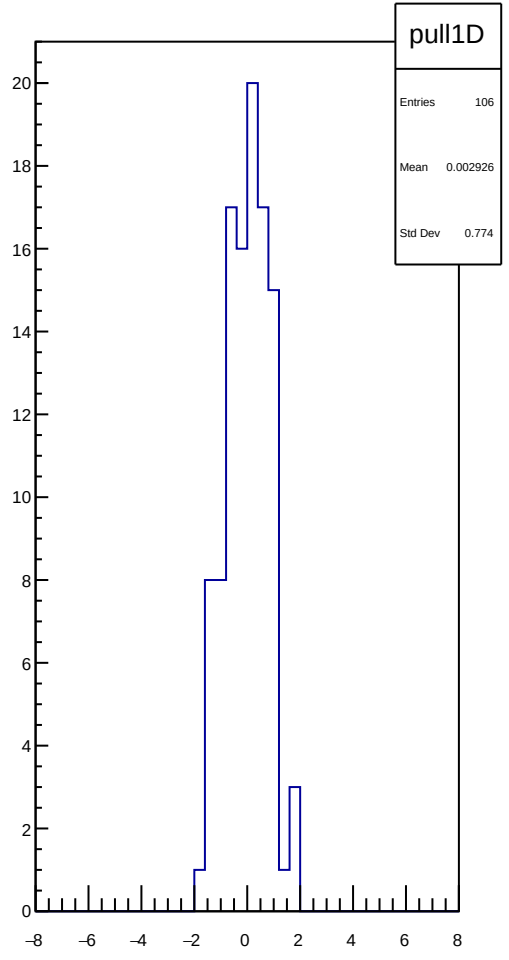

asym_sam_3726_avg_eigen_dit_correction_rms vs run
χ² / ndf 4723 / 105
p0 1662 ± 1.17
2200
2100
2000
1900
1800
1700
1600
1500

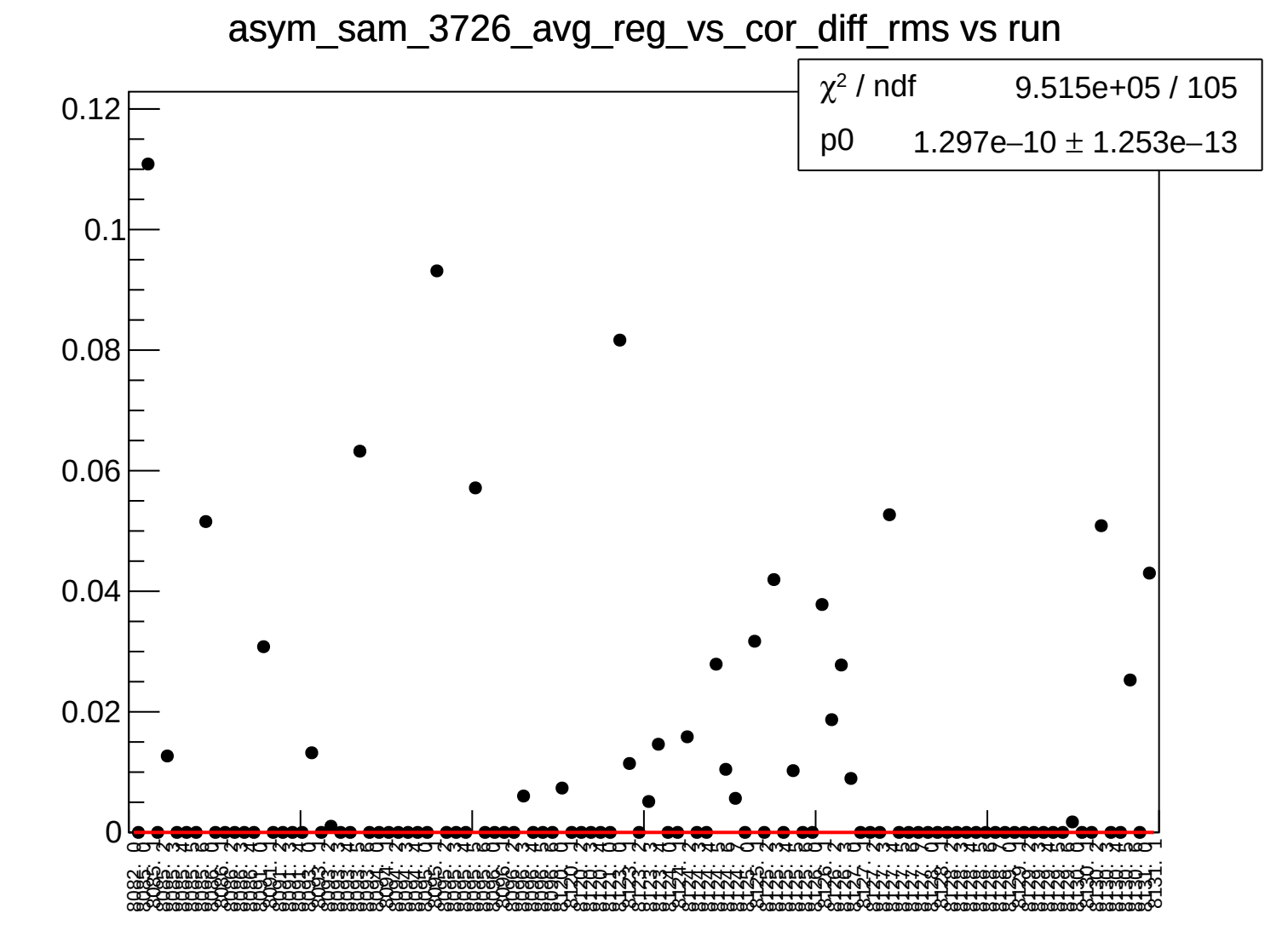

asym_sam_3726_avg_mean vs run
χ² / ndf 72.83 / 105
p0 2089 ± 1666
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean −64.32
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

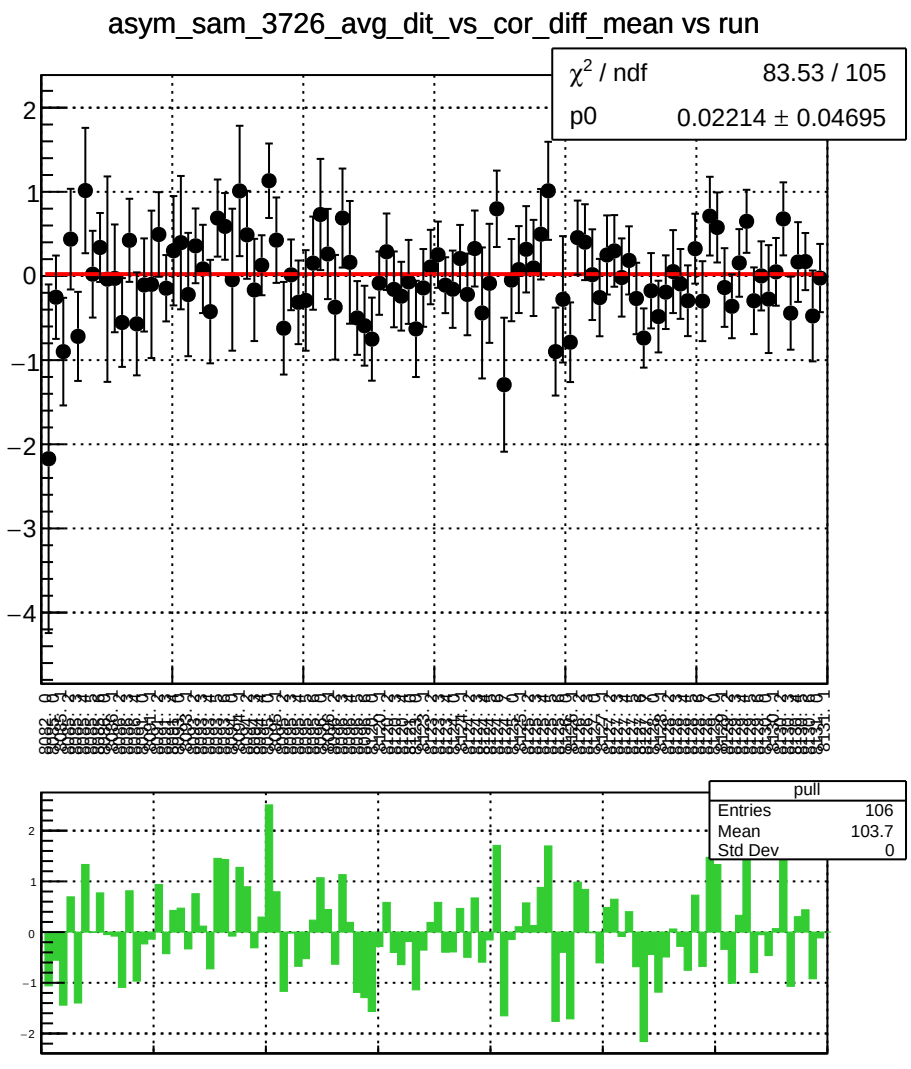

pull1D
Entries 106
Mean 0.005994
Std Dev 0.8289
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

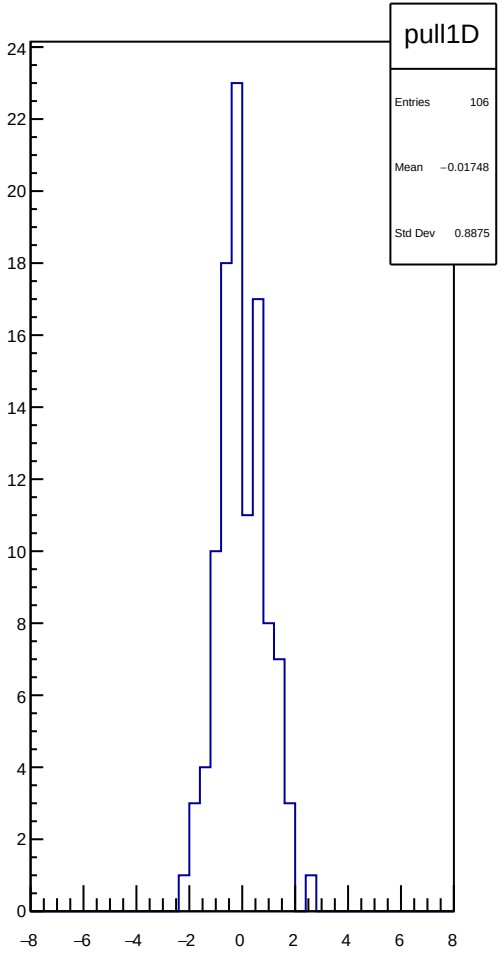

asym_sam_3726_avg_rms vs run
χ² / ndf 6169 / 105
p0 1673 ± 1.178
2300
2200
2100
2000
1900
1800
1700
1600
1500

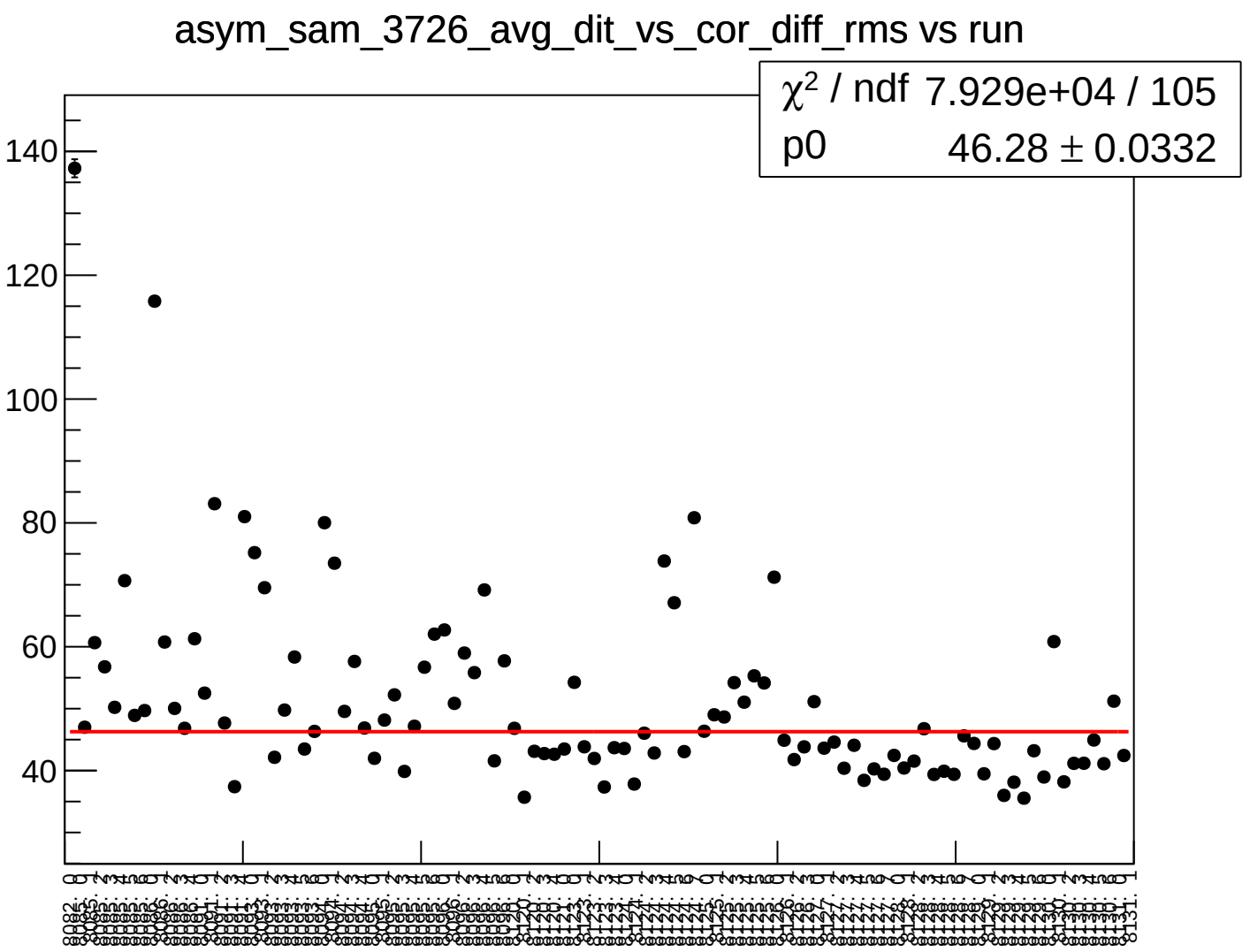

asym_sam_3726_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 63.5 / 105
p0 5.122e−14 ± 1.772e−13
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 106
Mean 808.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

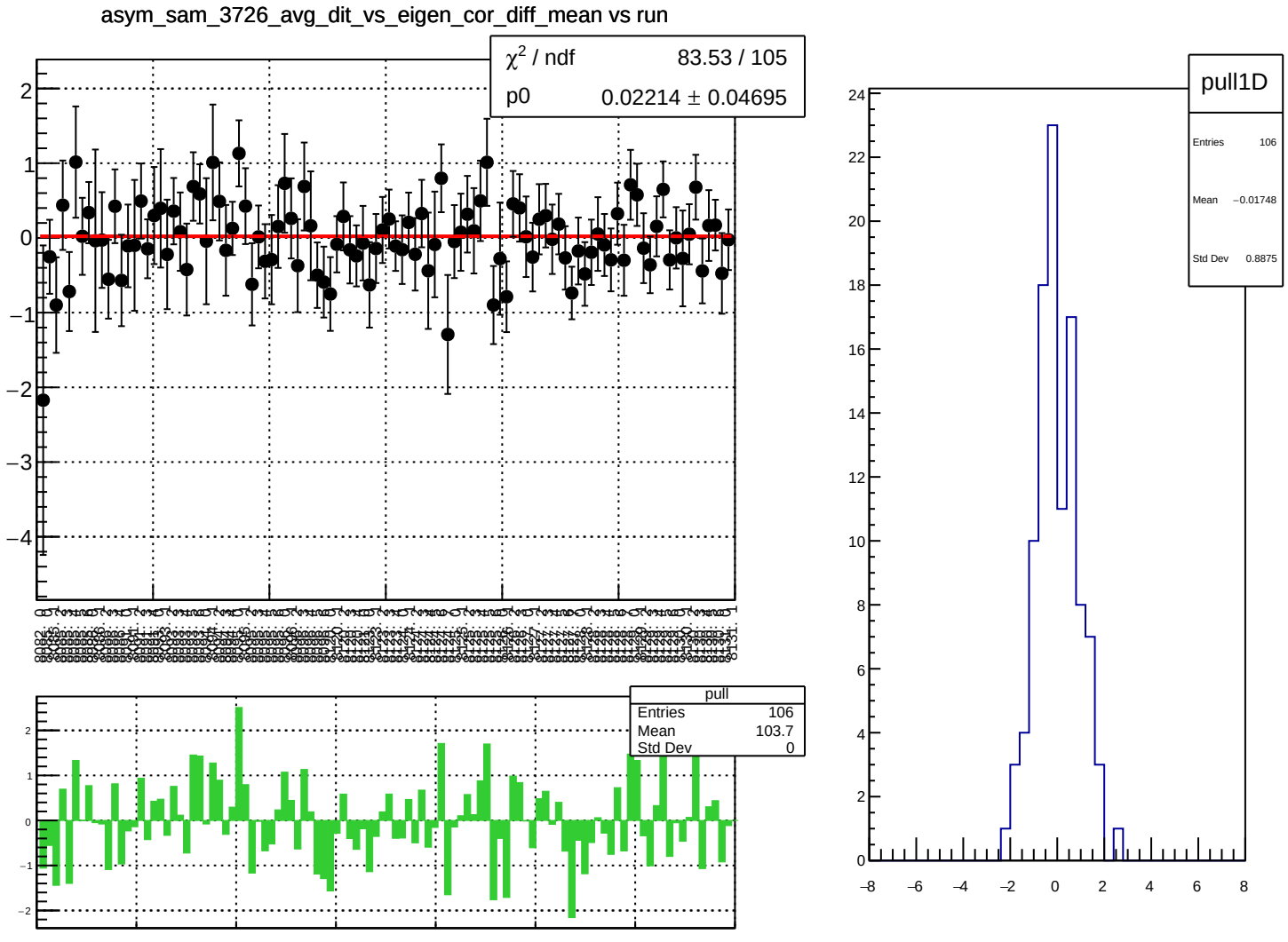

pull1D
Entries 106
Mean 0.002926
Std Dev 0.774
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

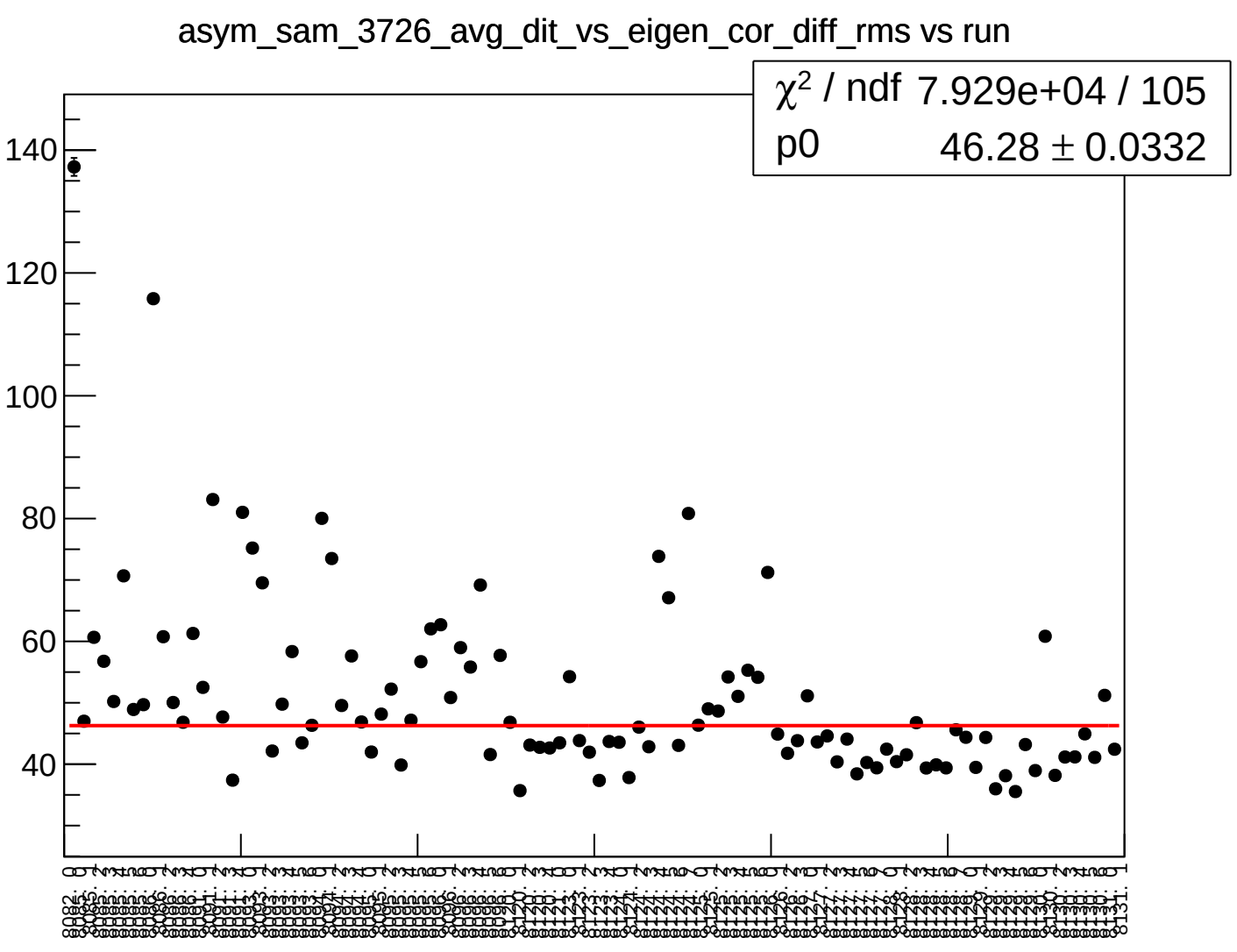

asym_sam_3726_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 9.515e+05 / 105
p0 1.297e−10 ± 1.253e−13
0.12
0.1
0.08
0.06
0.04
0.02
0

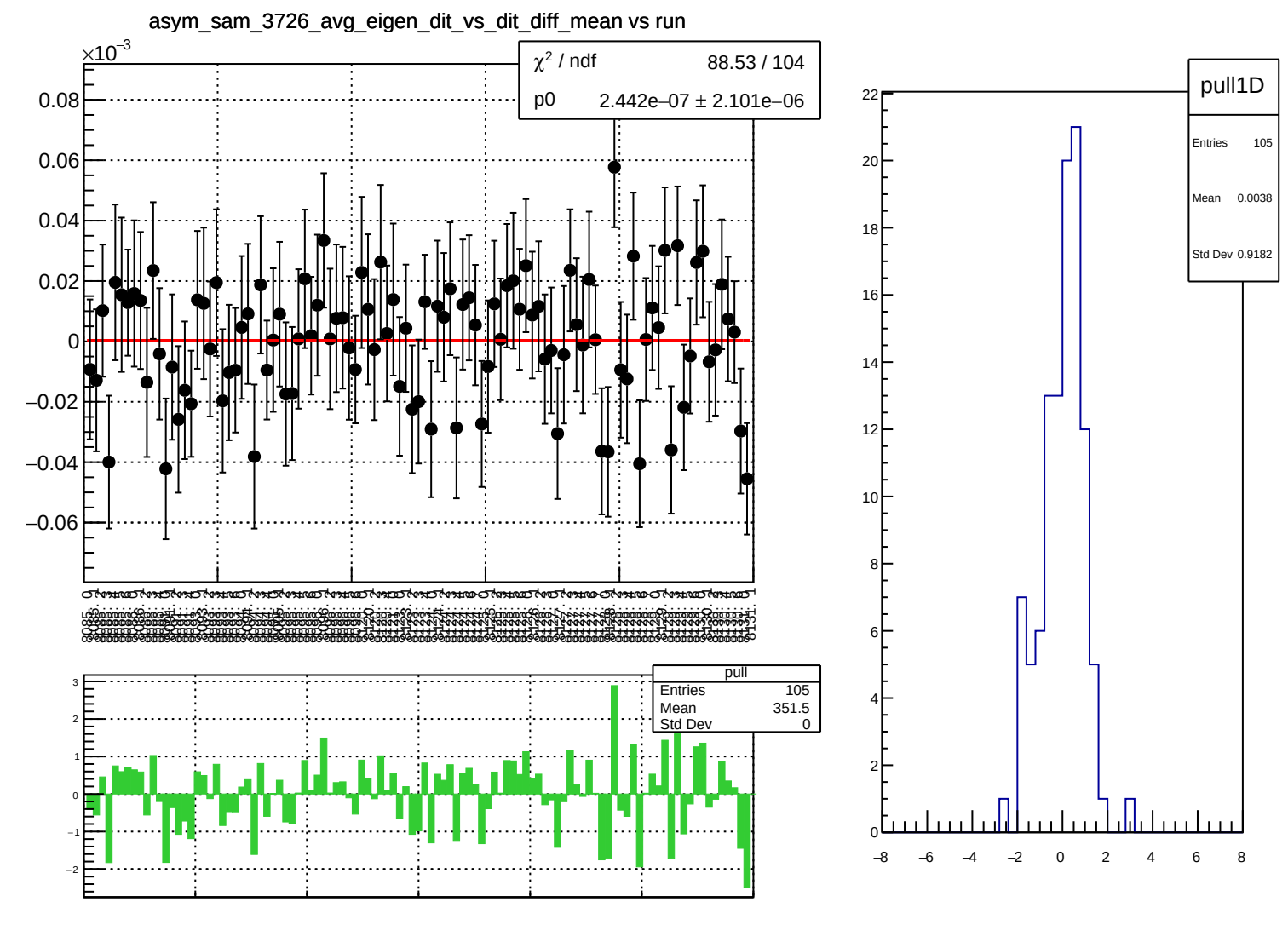

asym_sam_3726_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 83.53 / 105
p0 0.02214 ± 0.04695
pull
Entries 106
Mean 103.7
Std Dev 0

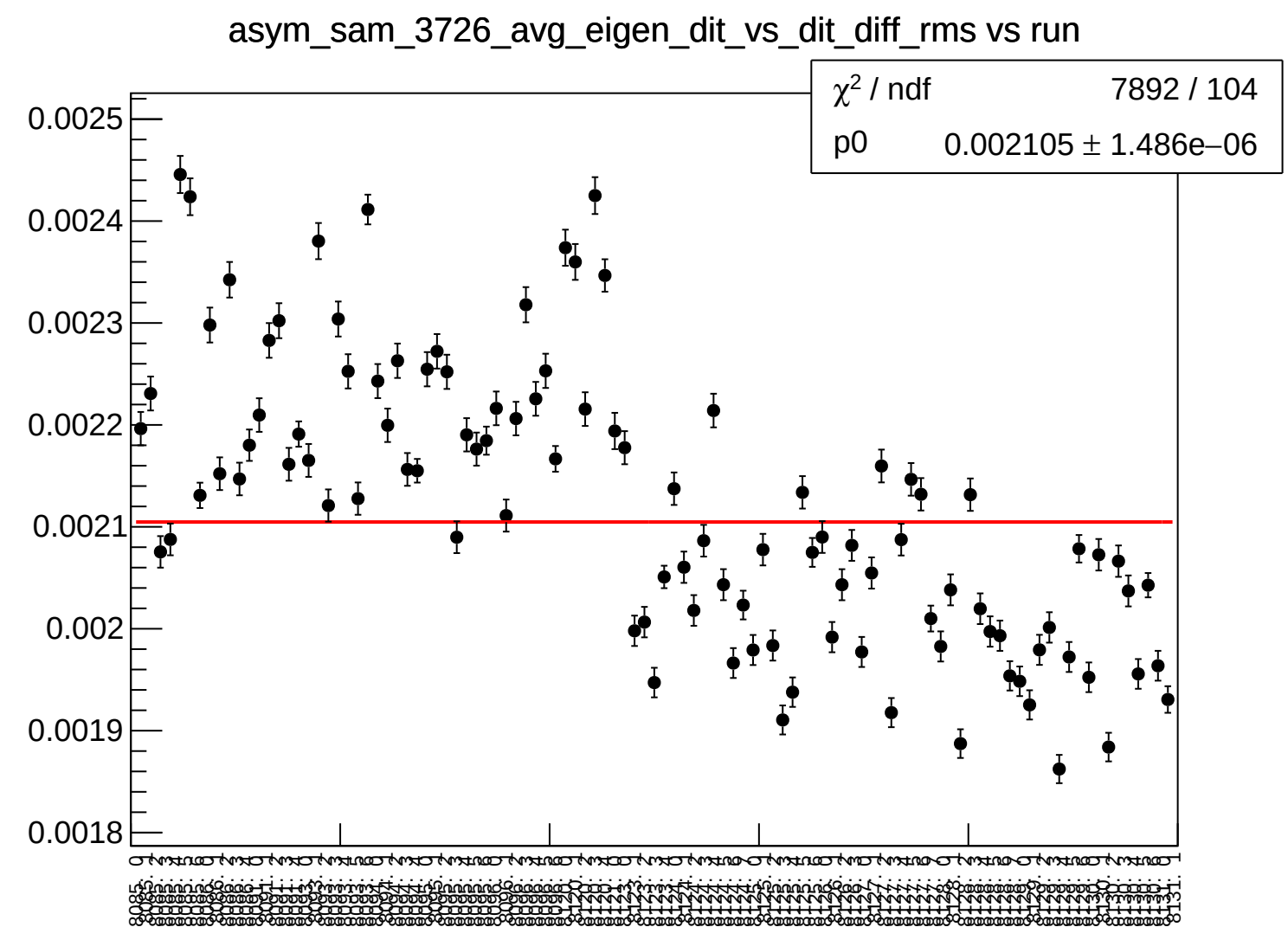

pull1D
Entries 106
Mean −0.01748
Std Dev 0.8875

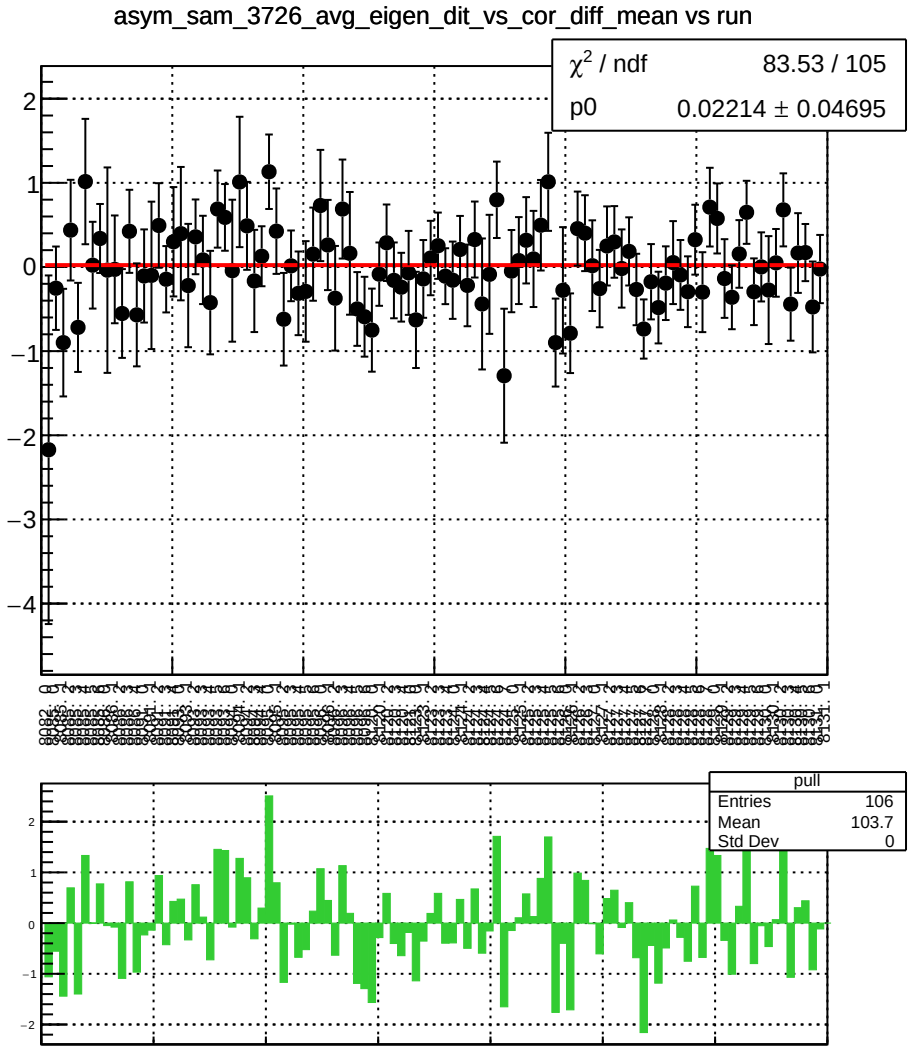

asym_sam_3726_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.929e+04 / 105
p0 46.28 ± 0.0332
140
120
100
80
60
40

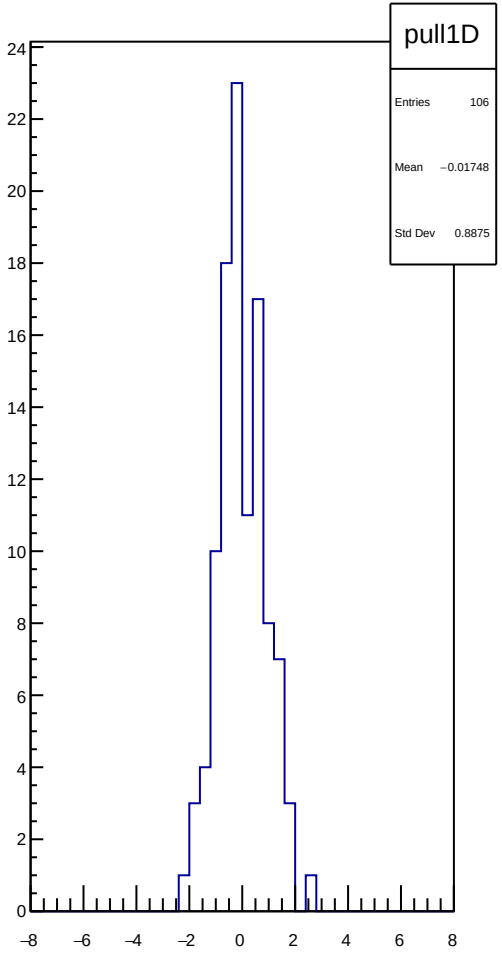

asym_sam_3726_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.53 / 105
p0 0.02214 ± 0.04695
pull
Entries 106
Mean 103.7
Std Dev 0
pull1D
Entries 106
Mean −0.01748
Std Dev 0.8875

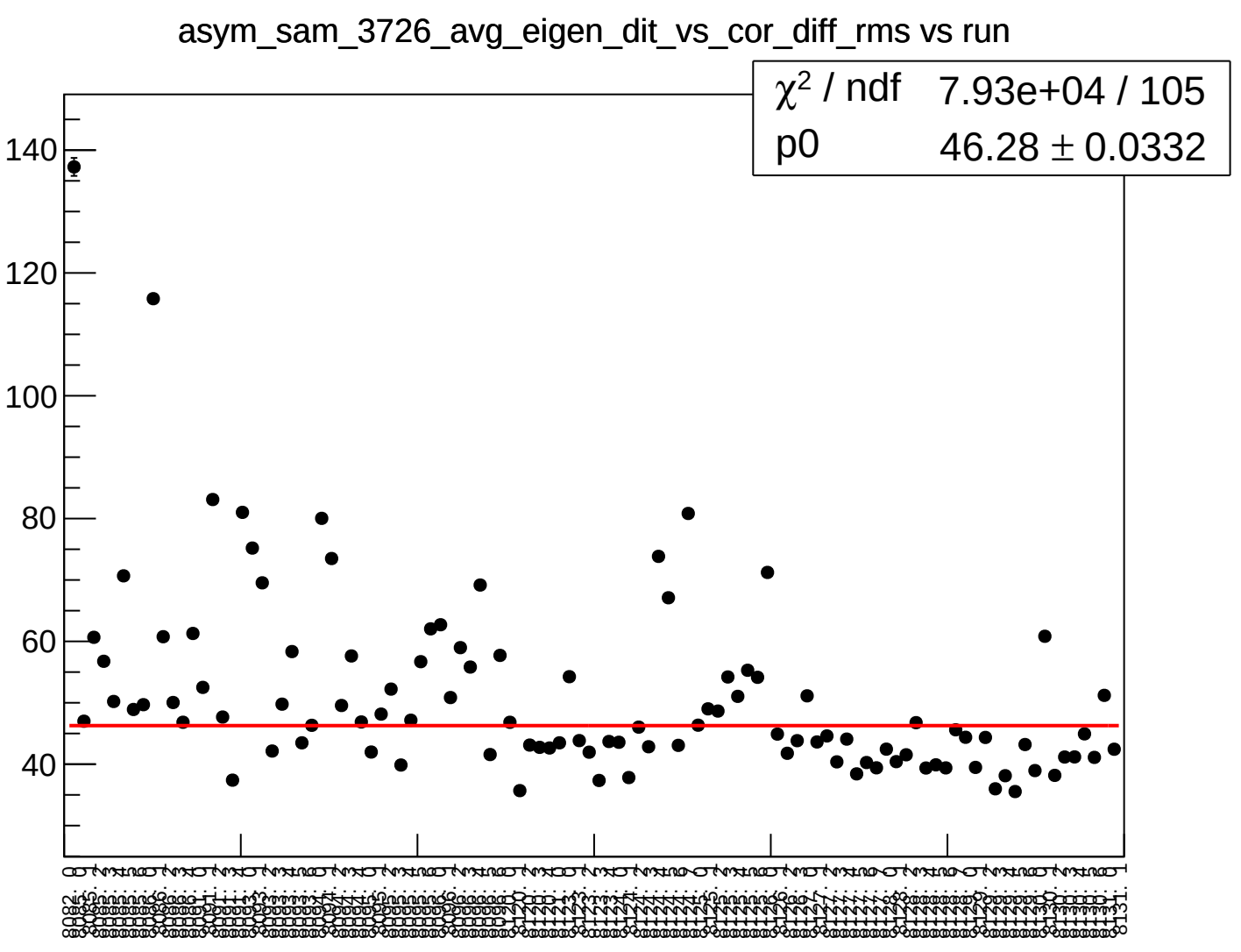

asym_sam_3726_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.929e+04 / 105
p0 46.28 ± 0.0332
140
120
100
80
60
40

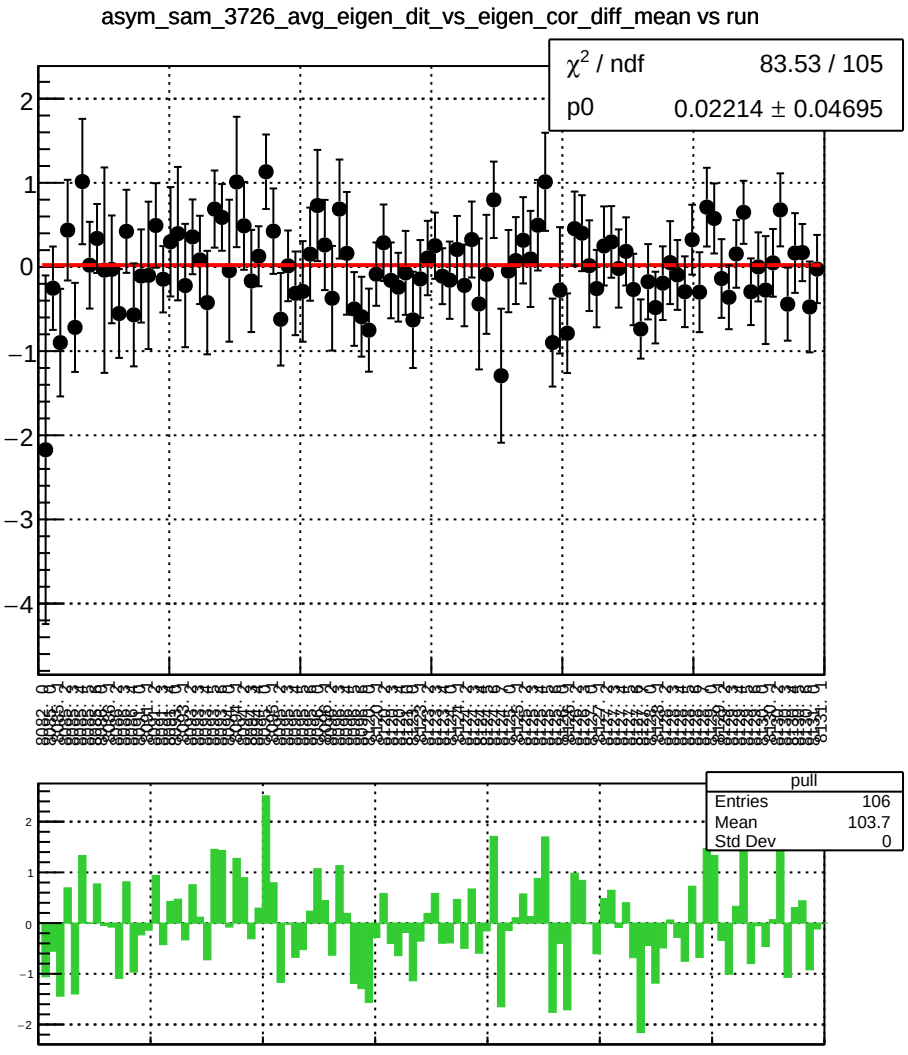

asym_sam_3726_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 88.53 / 104
p0 2.442e−07 ± 2.101e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 105
Mean 351.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.0038
Std Dev 0.9182
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

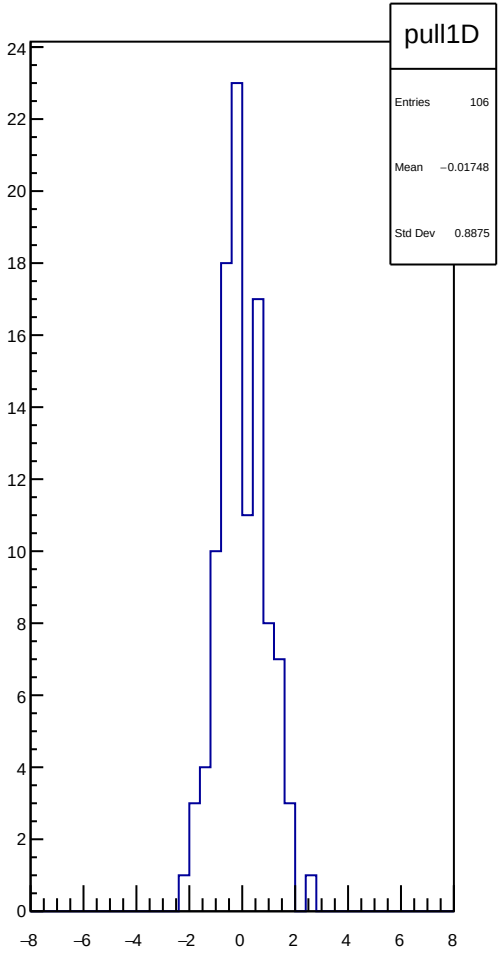

asym_sam_3726_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7892 / 104
p0 0.002105 ± 1.486e−06
0.0025
0.0024
0.0023
0.0022
0.0021
0.002
0.0019
0.0018

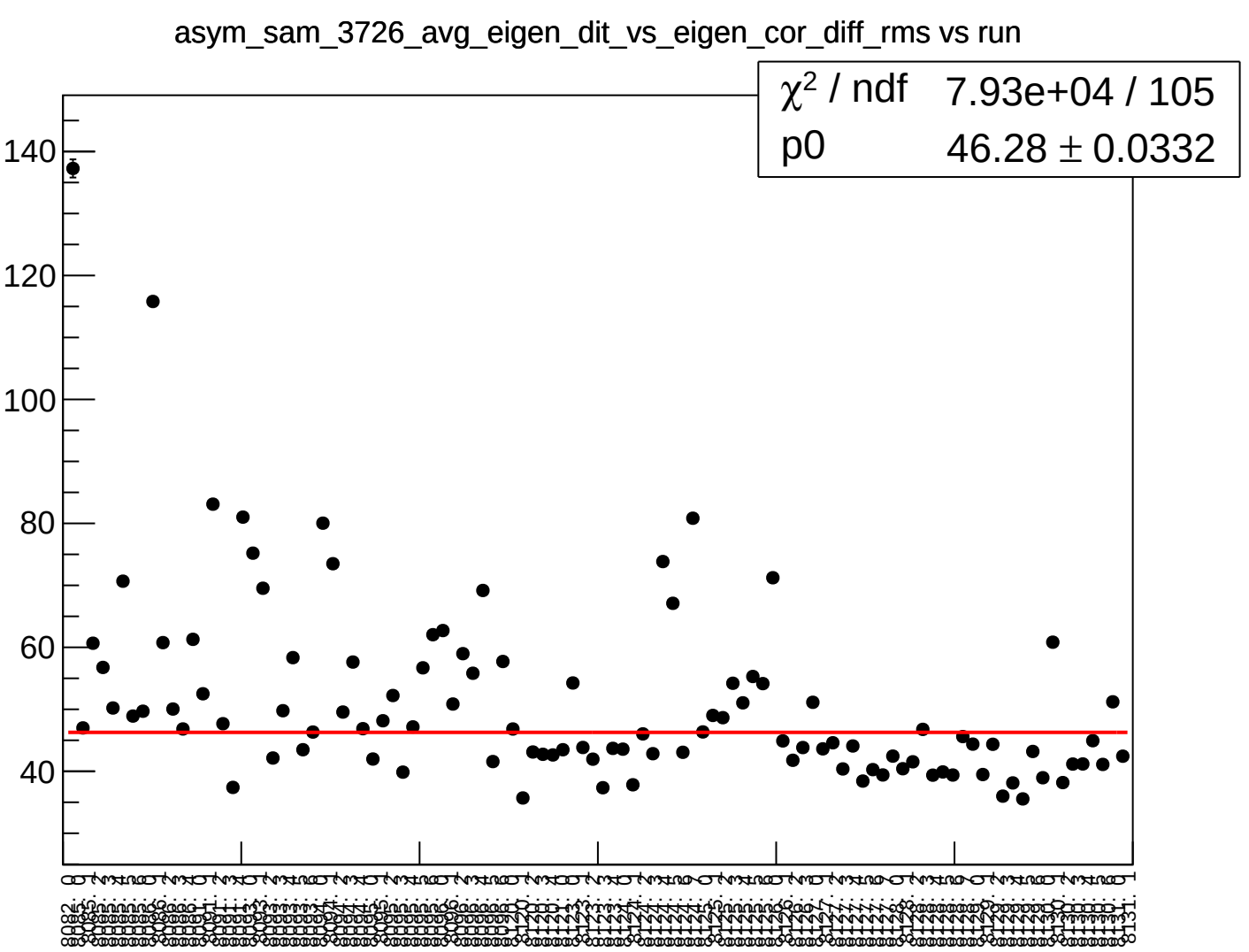

asym_sam_3726_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 83.53 / 105
p0 0.02214 ± 0.04695
pull
Entries 106
Mean 103.7
Std Dev 0

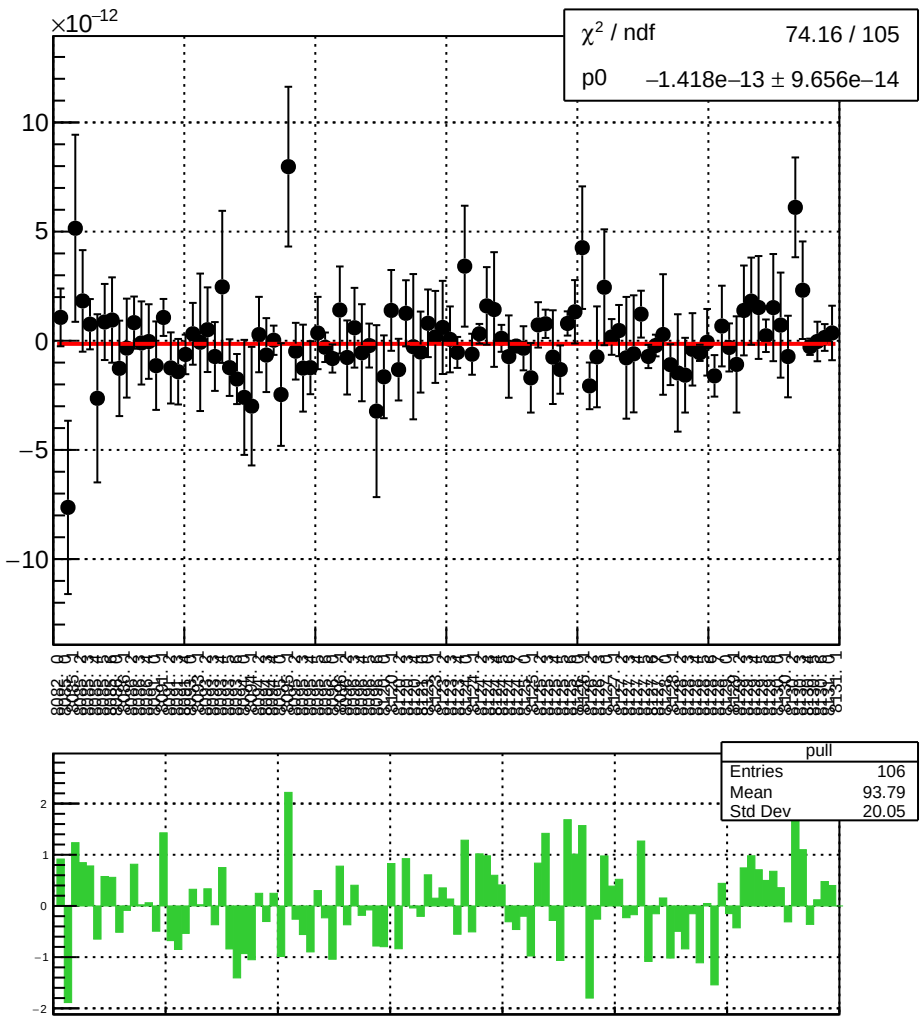

pull1D
Entries 106
Mean −0.01748
Std Dev 0.8875

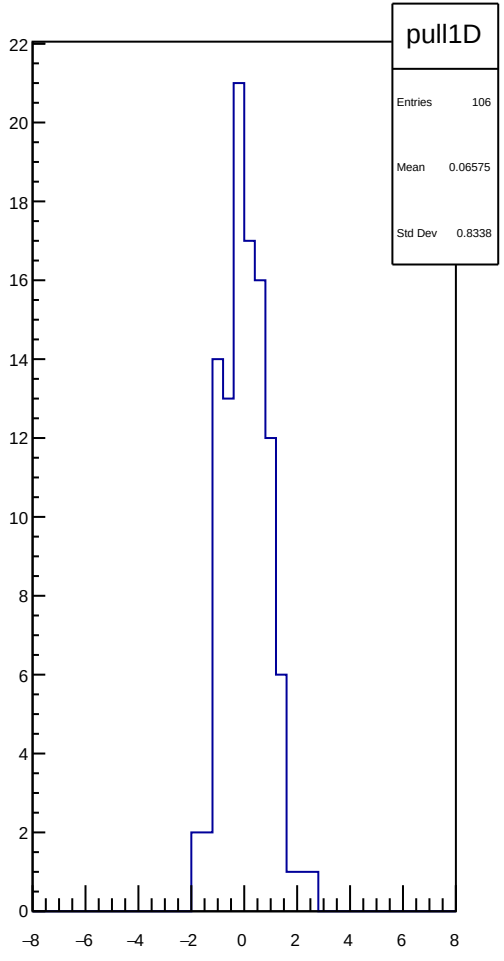

asym_sam_3726_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.93e+04 / 105
p0 46.28 ± 0.0332
140
120
100
80
60
40

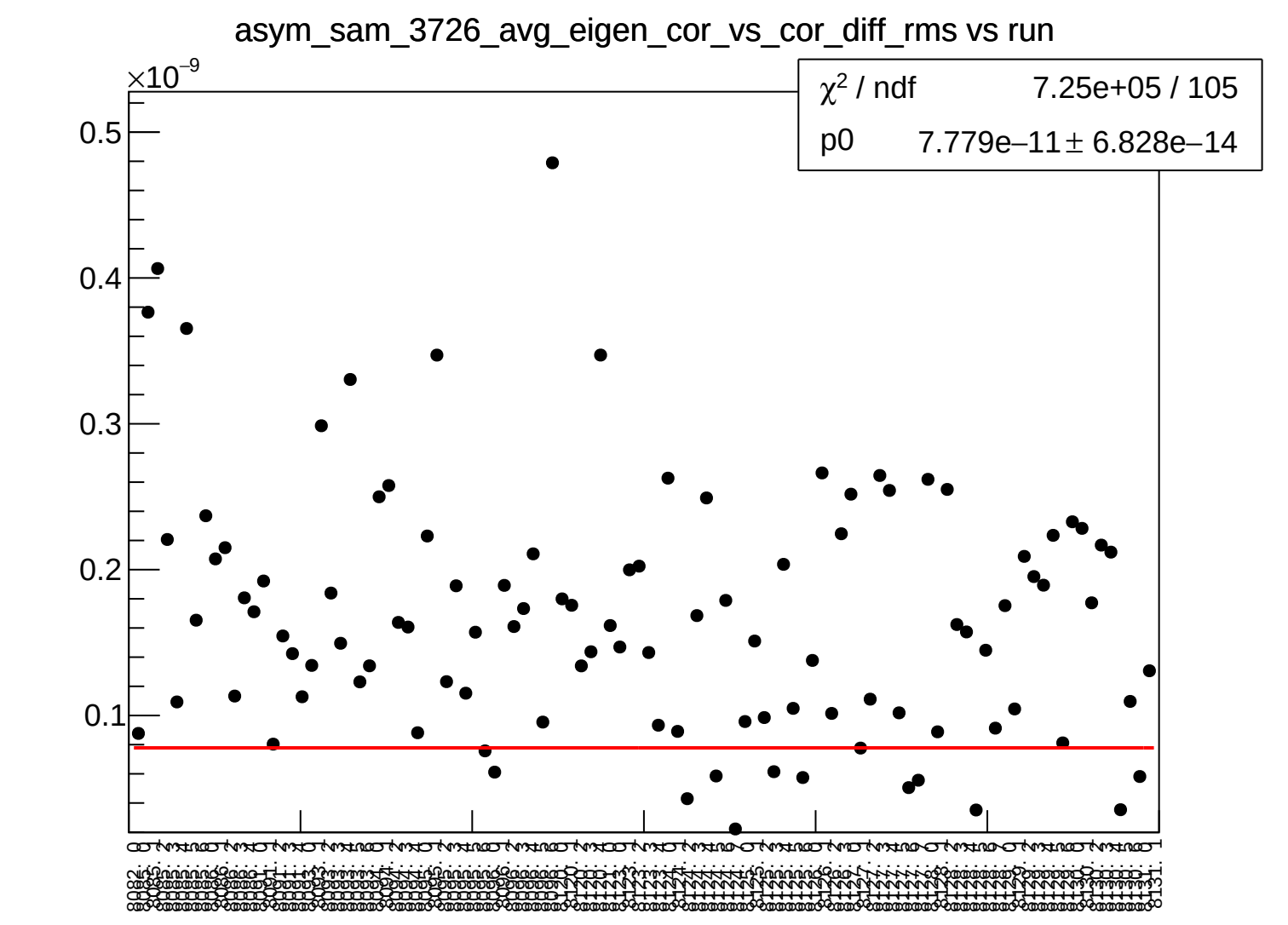

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.53 / 105
p0 0.02214 ± 0.04695
pull
Entries 106
Mean 103.7
Std Dev 0

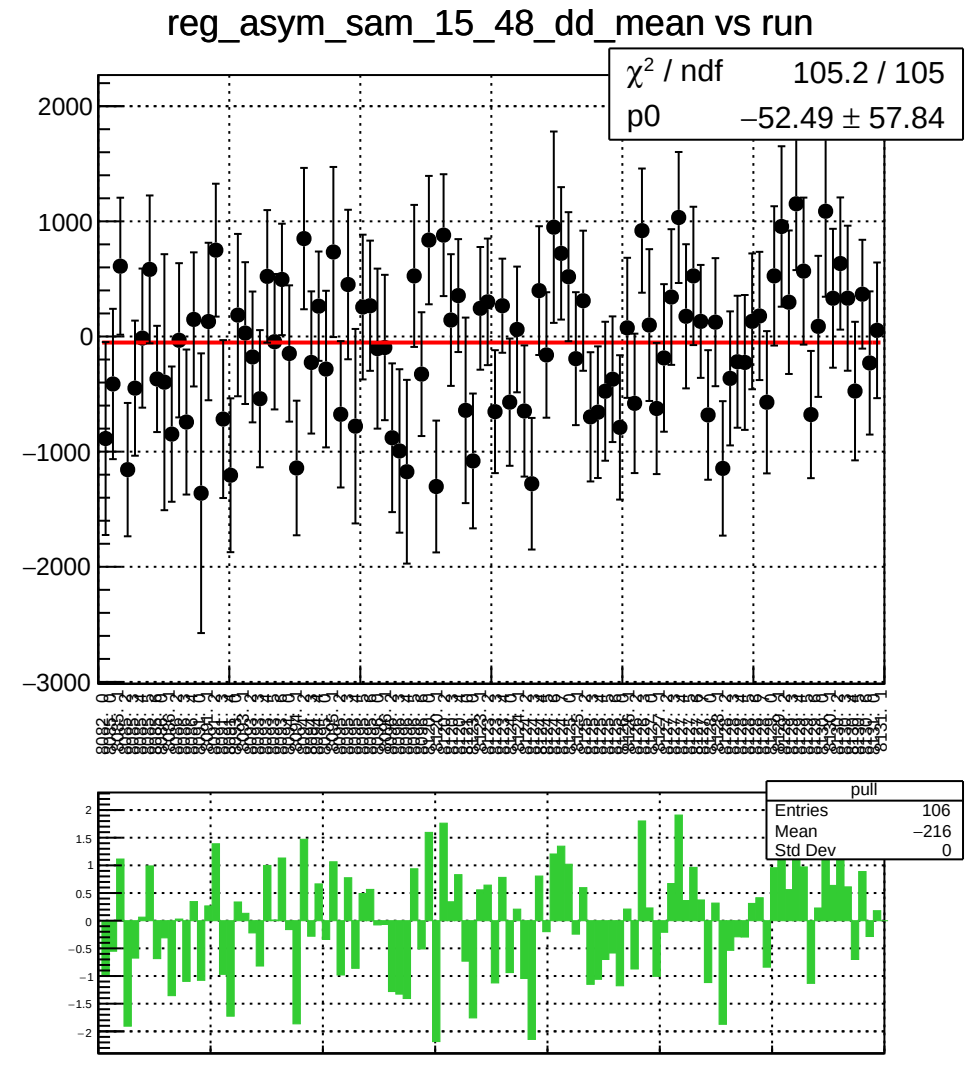

pull1D
Entries 106
Mean −0.01748
Std Dev 0.8875

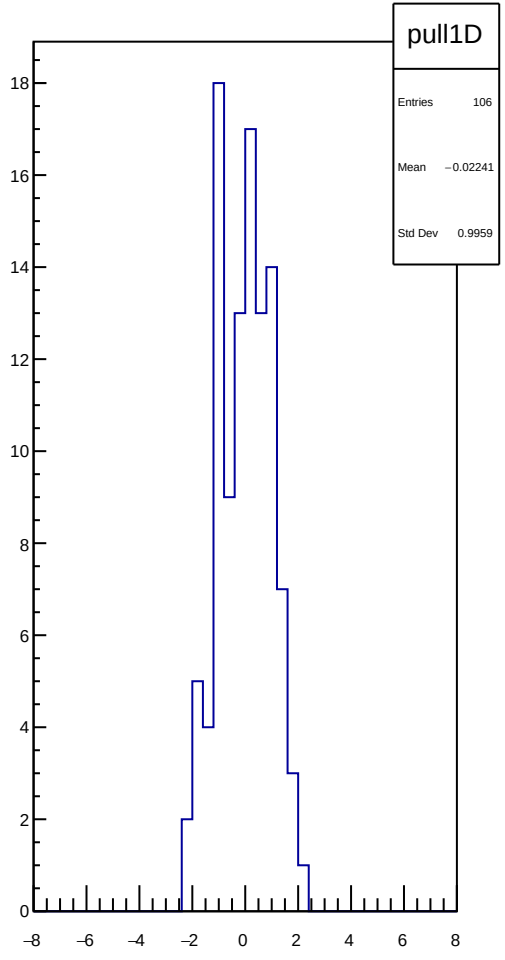

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.93e+04 / 105
p0 46.28 ± 0.0332
140
120
100
80
60
40

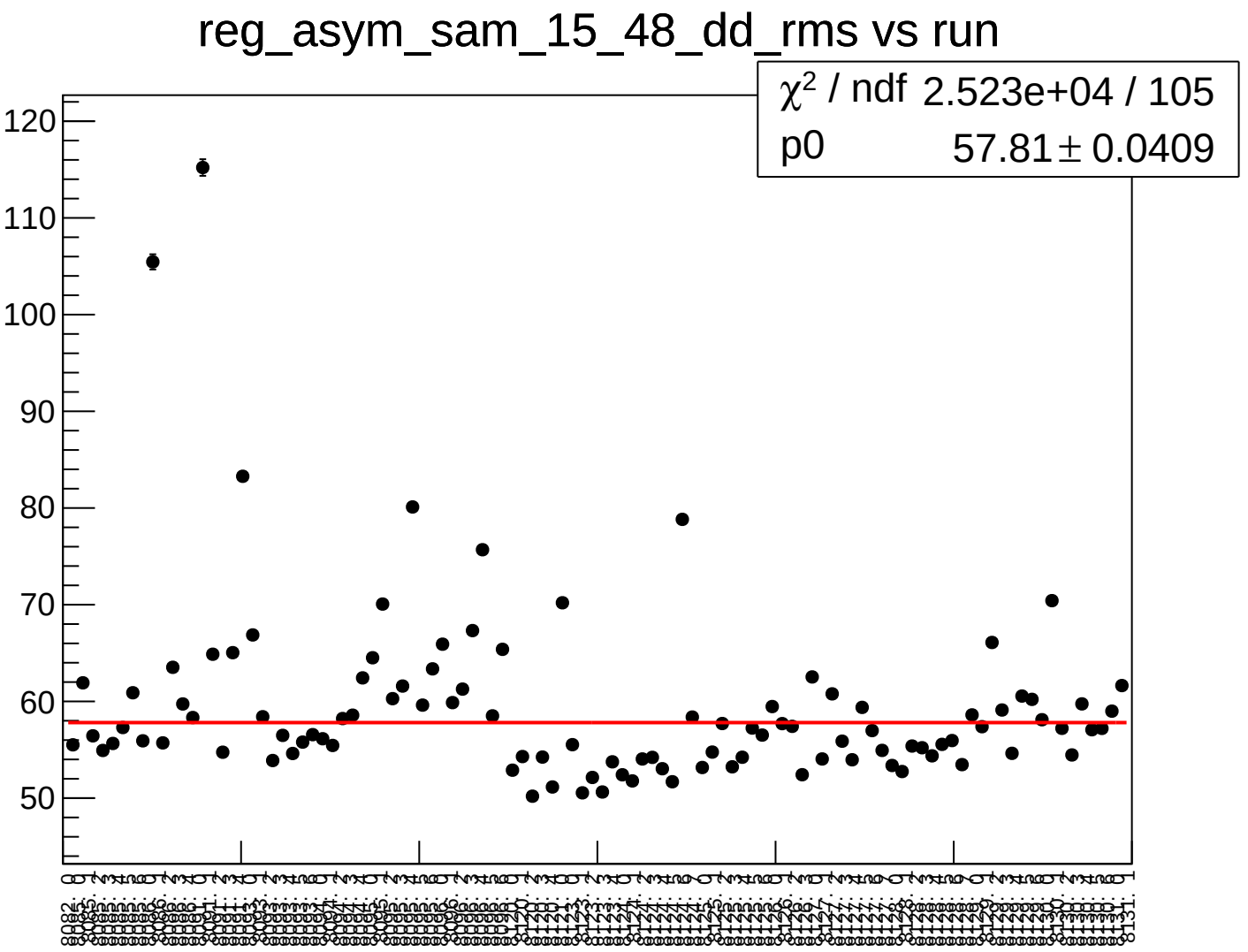

asym_sam_3726_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74.16 / 105
p0 −1.418e−13 ± 9.656e−14
10
5
0
−5
−10
pull
Entries 106
Mean 93.79
Std Dev 20.05
2
1
0
−1
−2

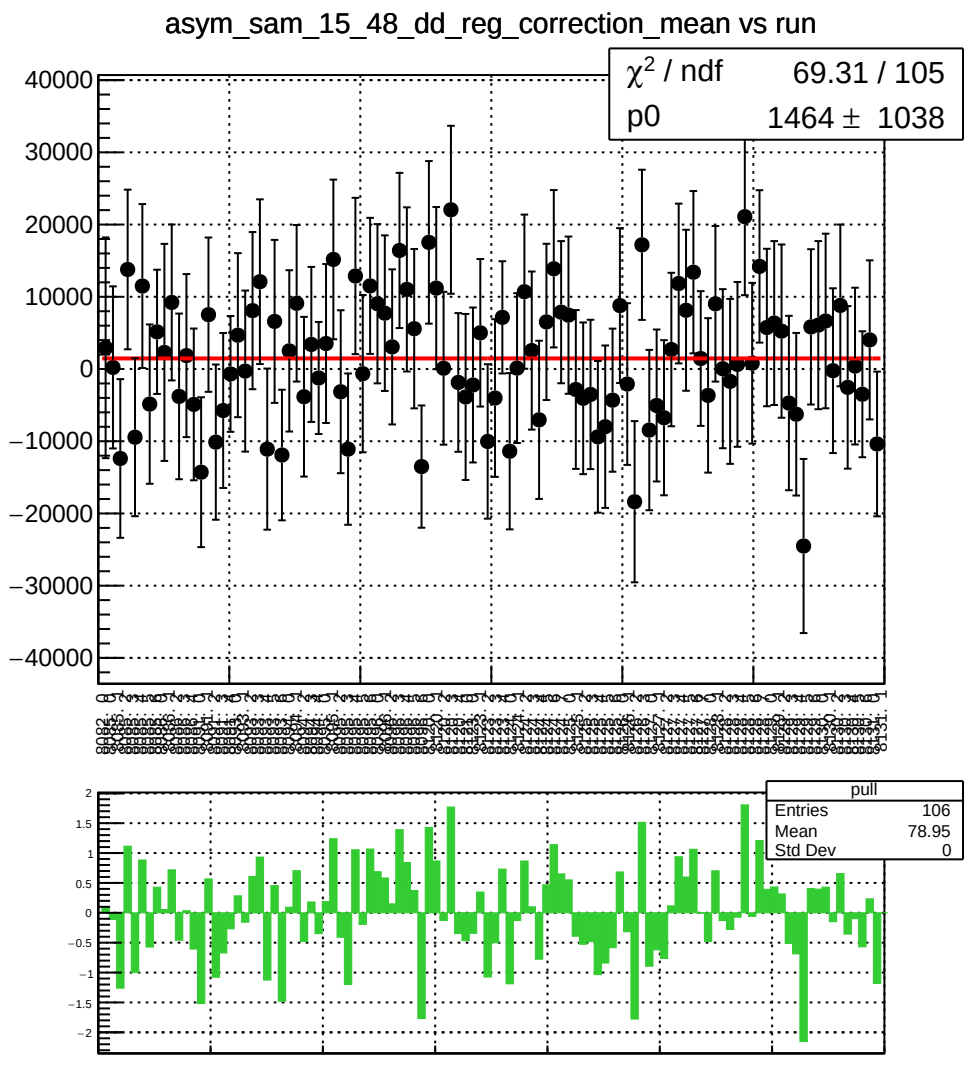

pull1D
Entries 106
Mean 0.06575
Std Dev 0.8338
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

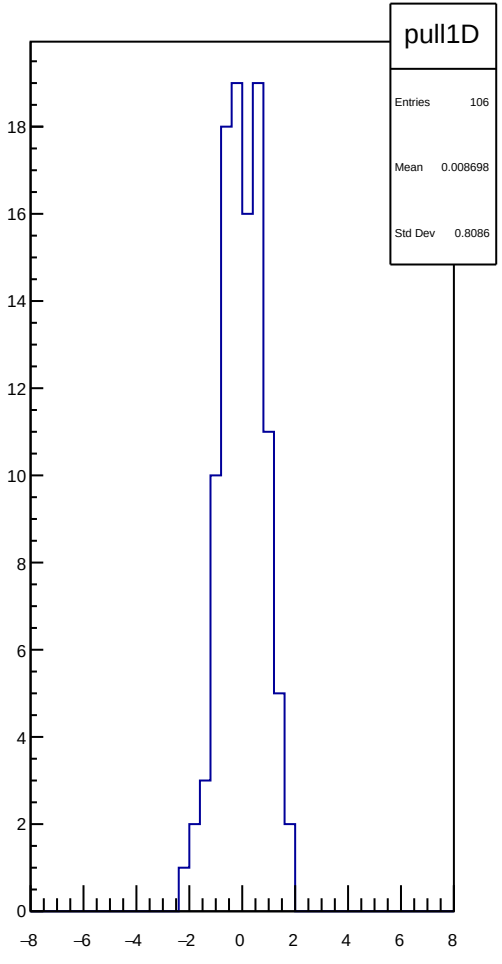

asym_sam_3726_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.25e+05 / 105
p0 7.779e−11 ± 6.828e−14
0.5
0.4
0.3
0.2
0.1

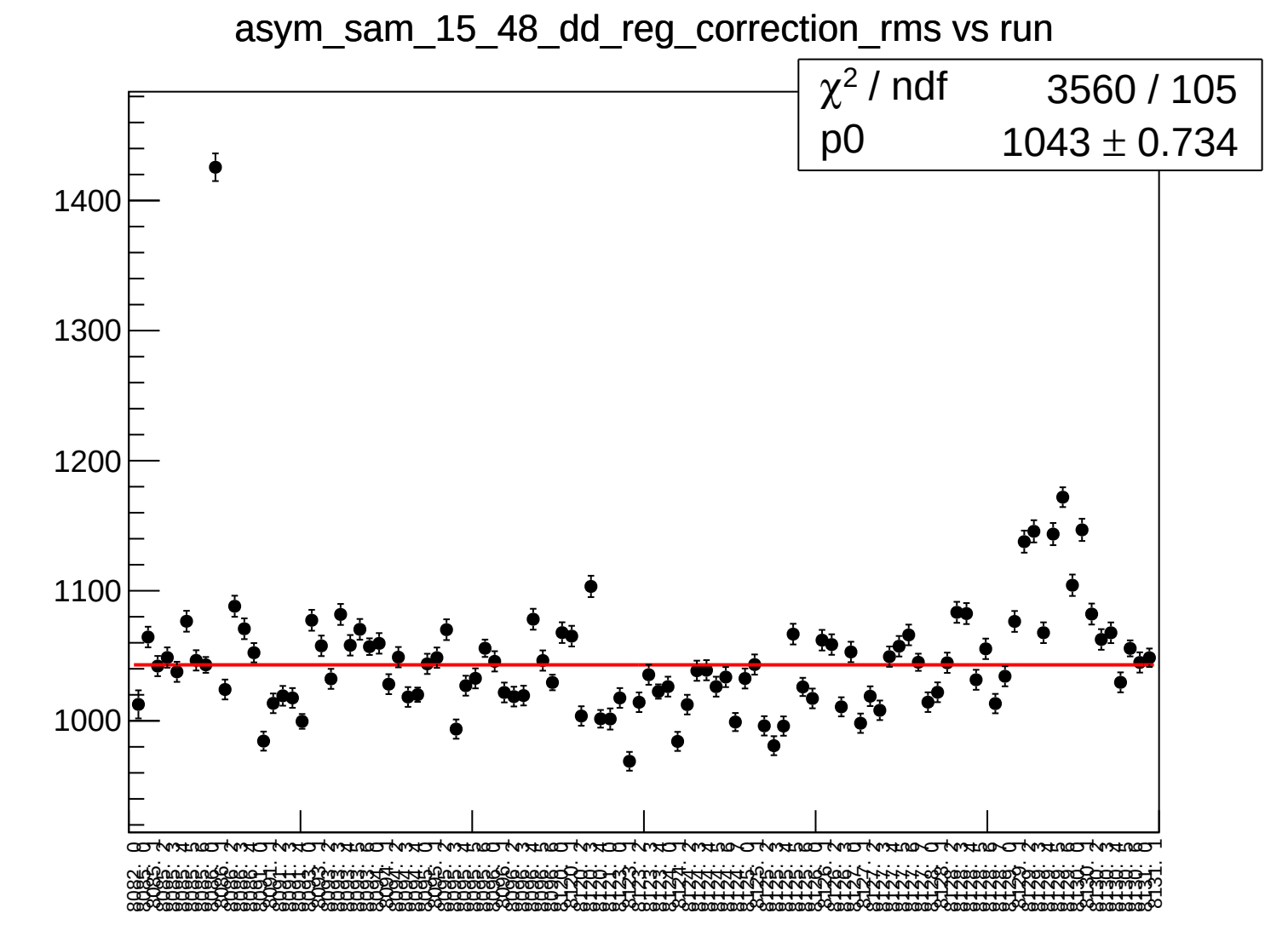

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 105.2 / 105
p0 −52.49 ± 57.84
2000
1000
0
−1000
−2000
−3000
pull
Entries 106
Mean −216
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

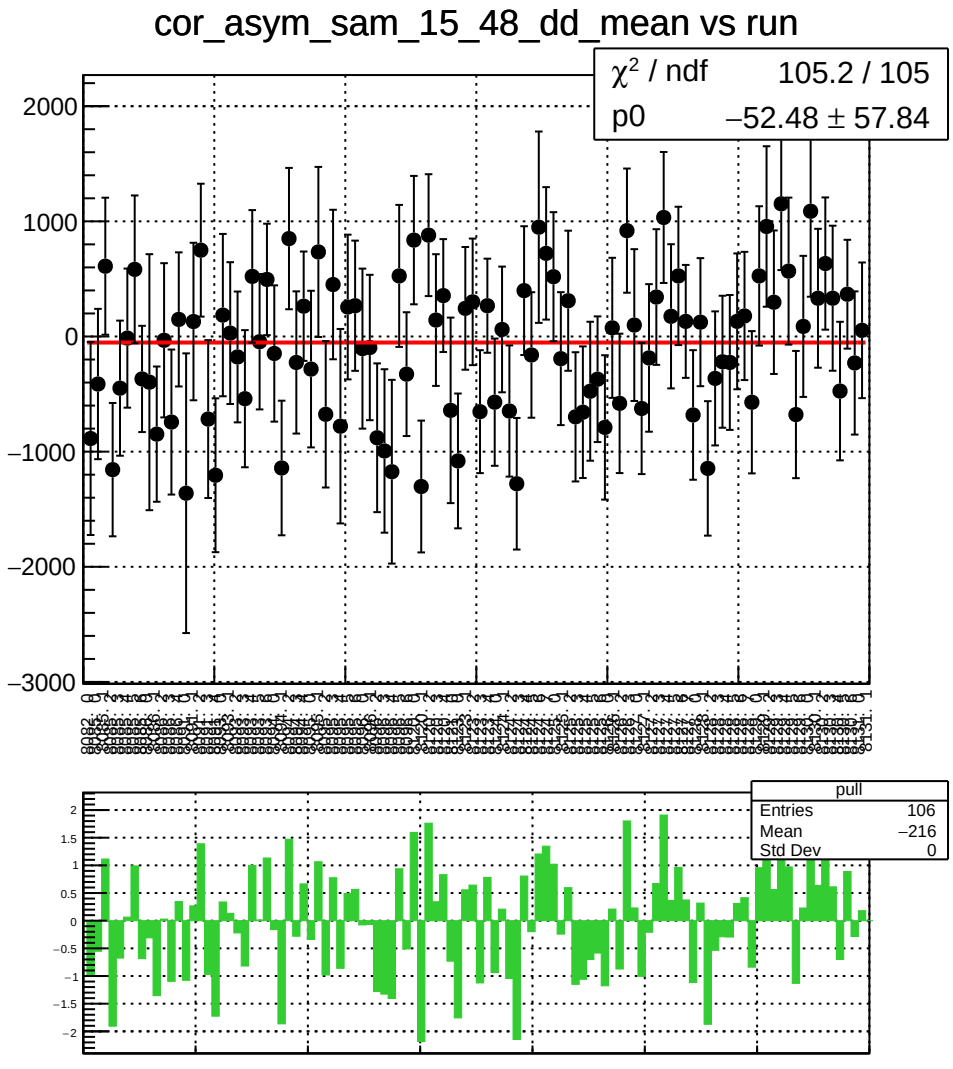

pull1D
Entries 106
Mean −0.02241
Std Dev 0.9959
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

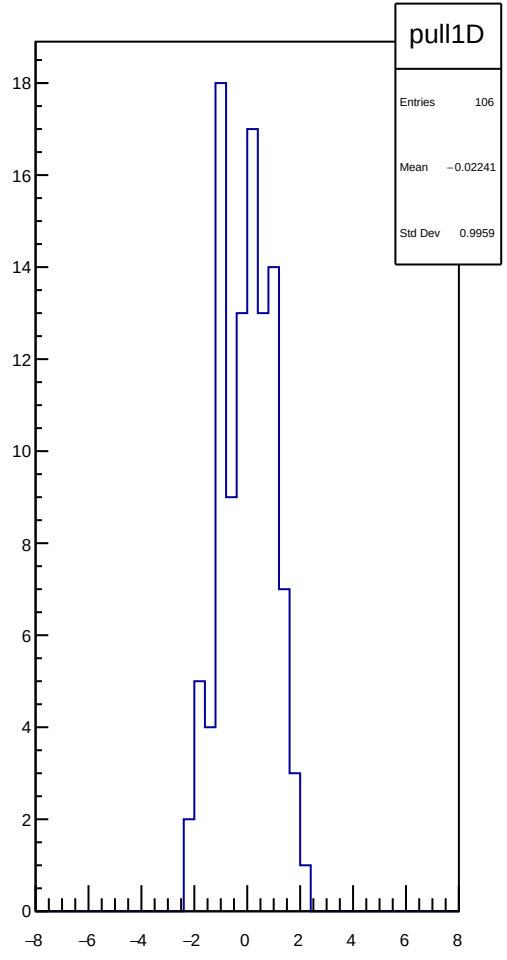

reg_asym_sam_15_48_dd_rms vs run
$\chi^2$ / ndf 2.523e+04 / 105
p0 57.81 ± 0.0409
120
110
100
90
80
70
60
50

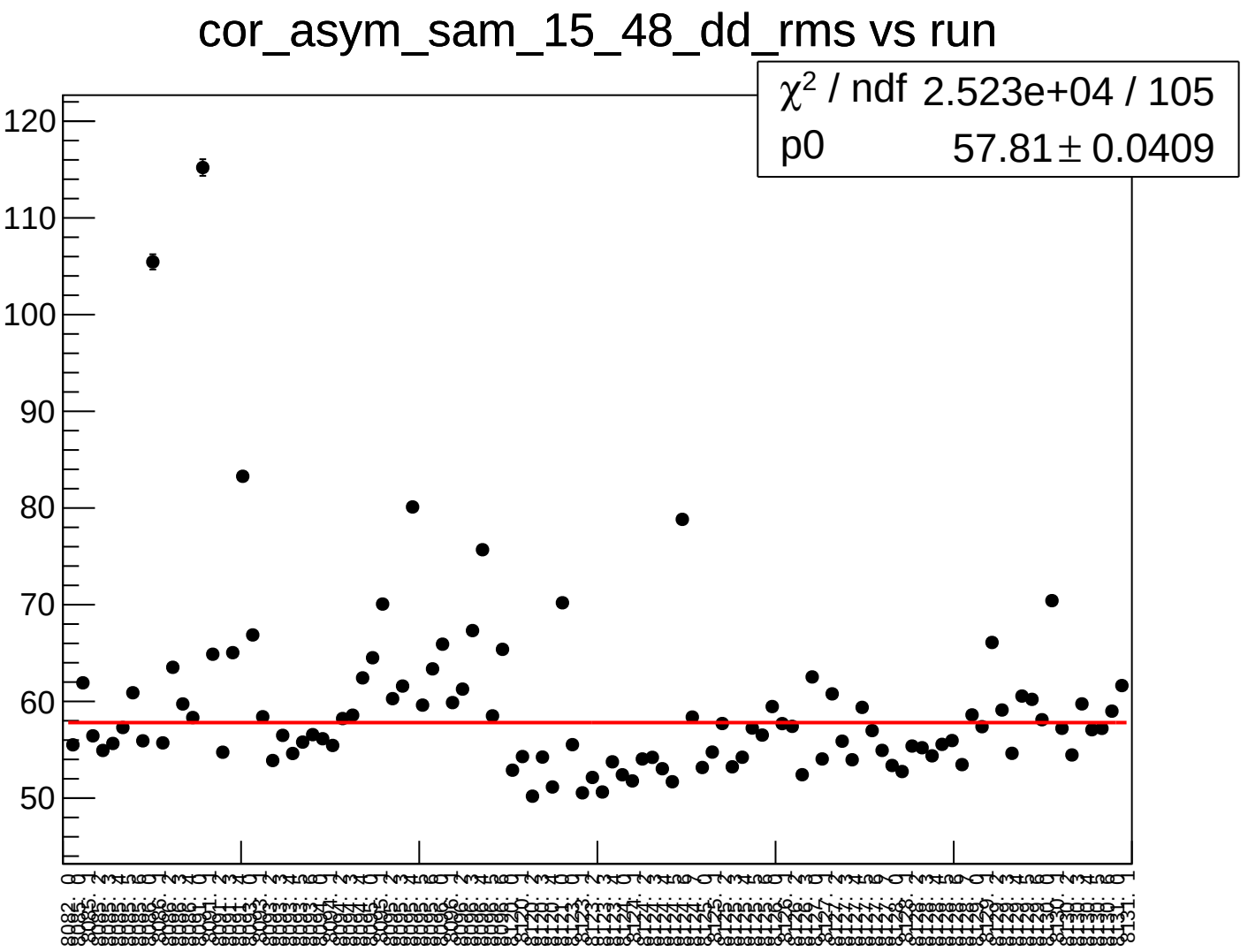

asym_sam_15_48_dd_reg_correction_mean vs run
χ² / ndf 69.31 / 105
p0 1464 ± 1038
pull
Entries 106
Mean 78.95
Std Dev 0

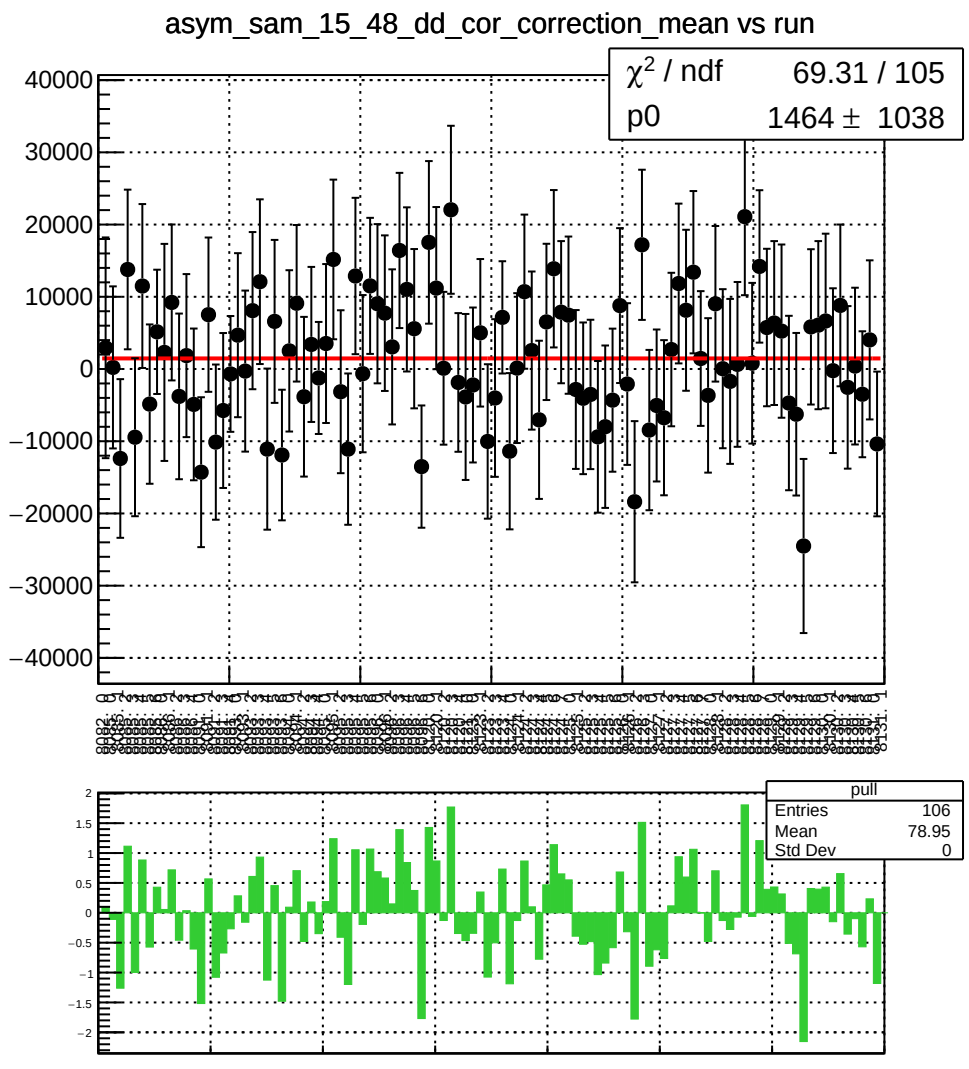

pull1D
Entries 106
Mean 0.008698
Std Dev 0.8086

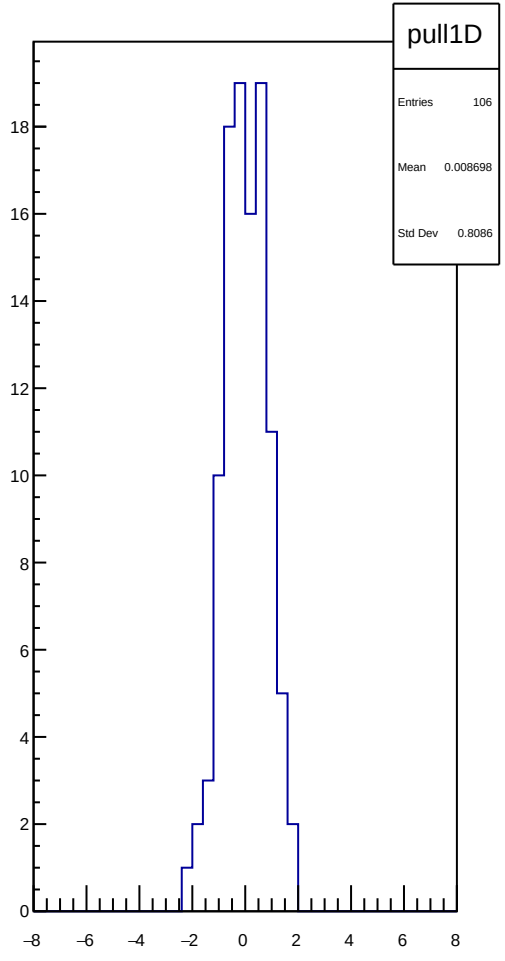

asym_sam_15_48_dd_reg_correction_rms vs run
χ² / ndf 3560 / 105
p0 1043 ± 0.734
1400
1300
1200
1100
1000

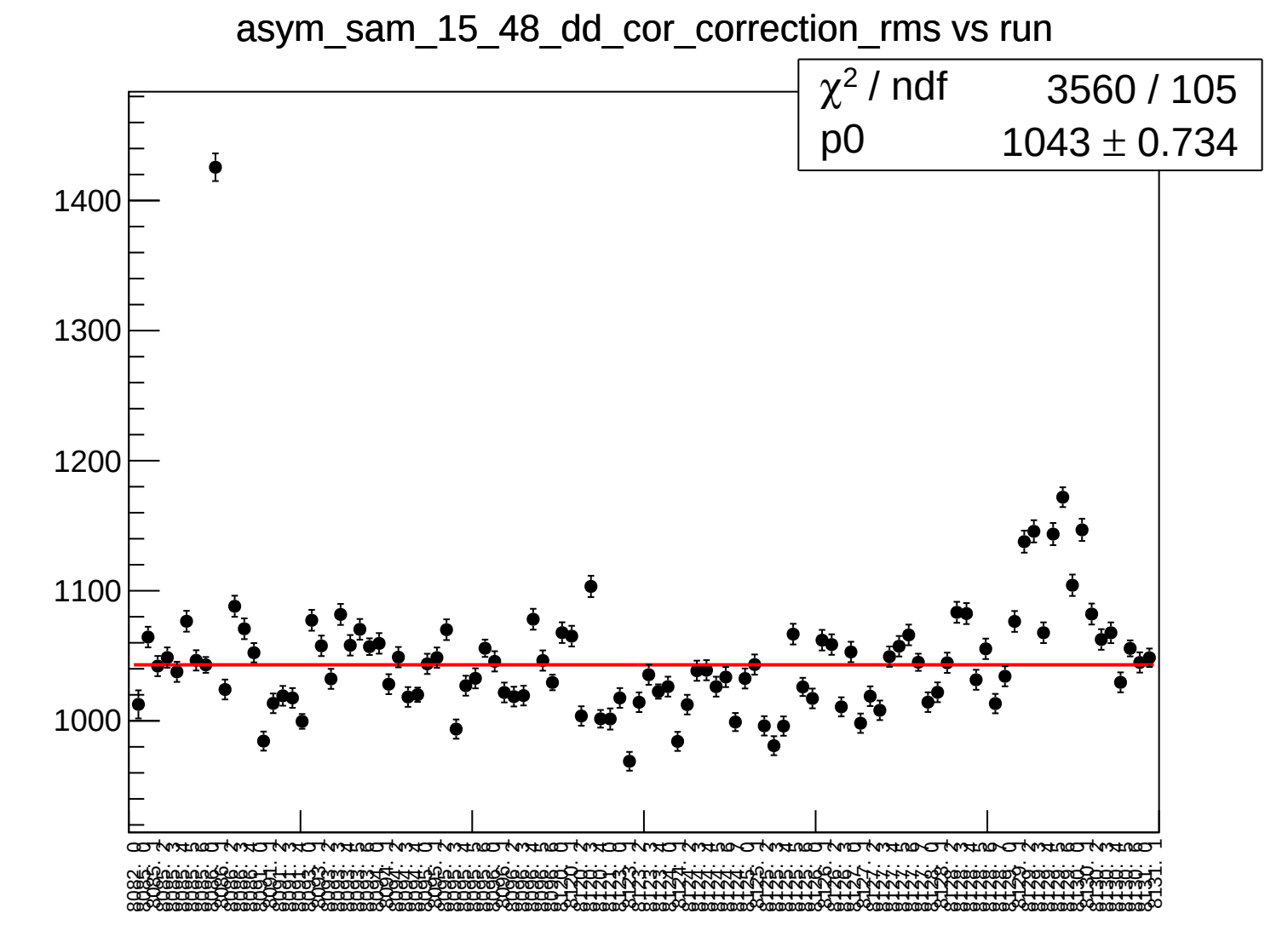

cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 105.2 / 105
p0 −52.48 ± 57.84
2000
1000
0
−1000
−2000
−3000
pull
Entries 106
Mean −216
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

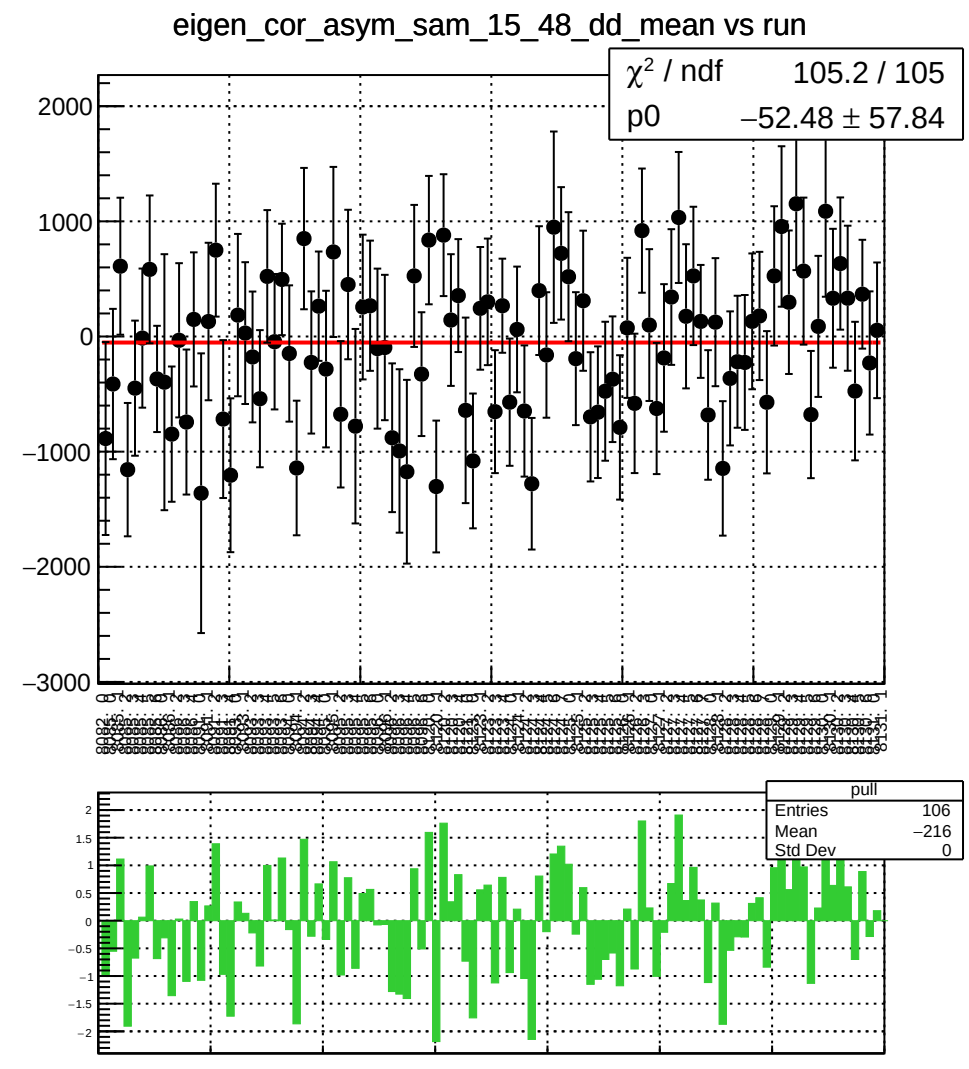

pull1D
Entries 106
Mean −0.02241
Std Dev 0.9959
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

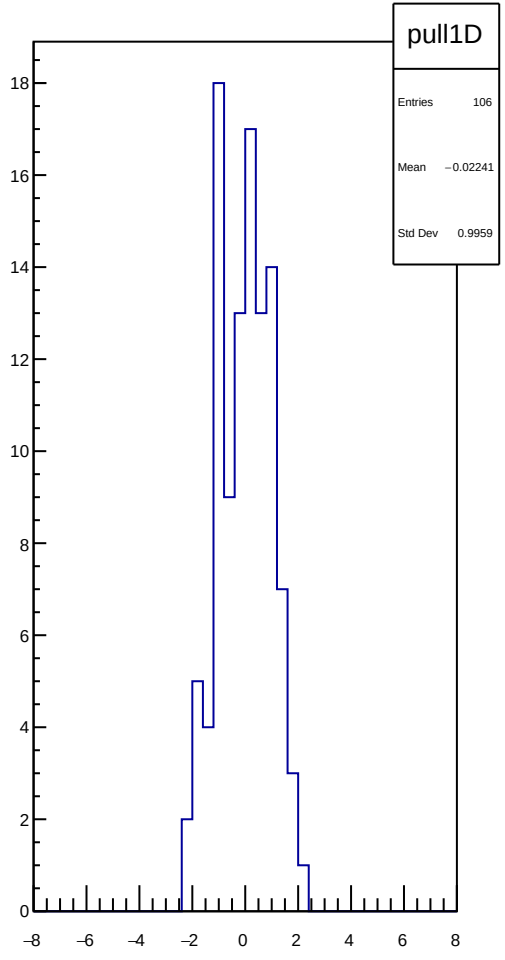

cor_asym_sam_15_48_dd_rms vs run
$\chi^2$ / ndf 2.523e+04 / 105
p0 57.81 ± 0.0409
120
110
100
90
80
70
60
50

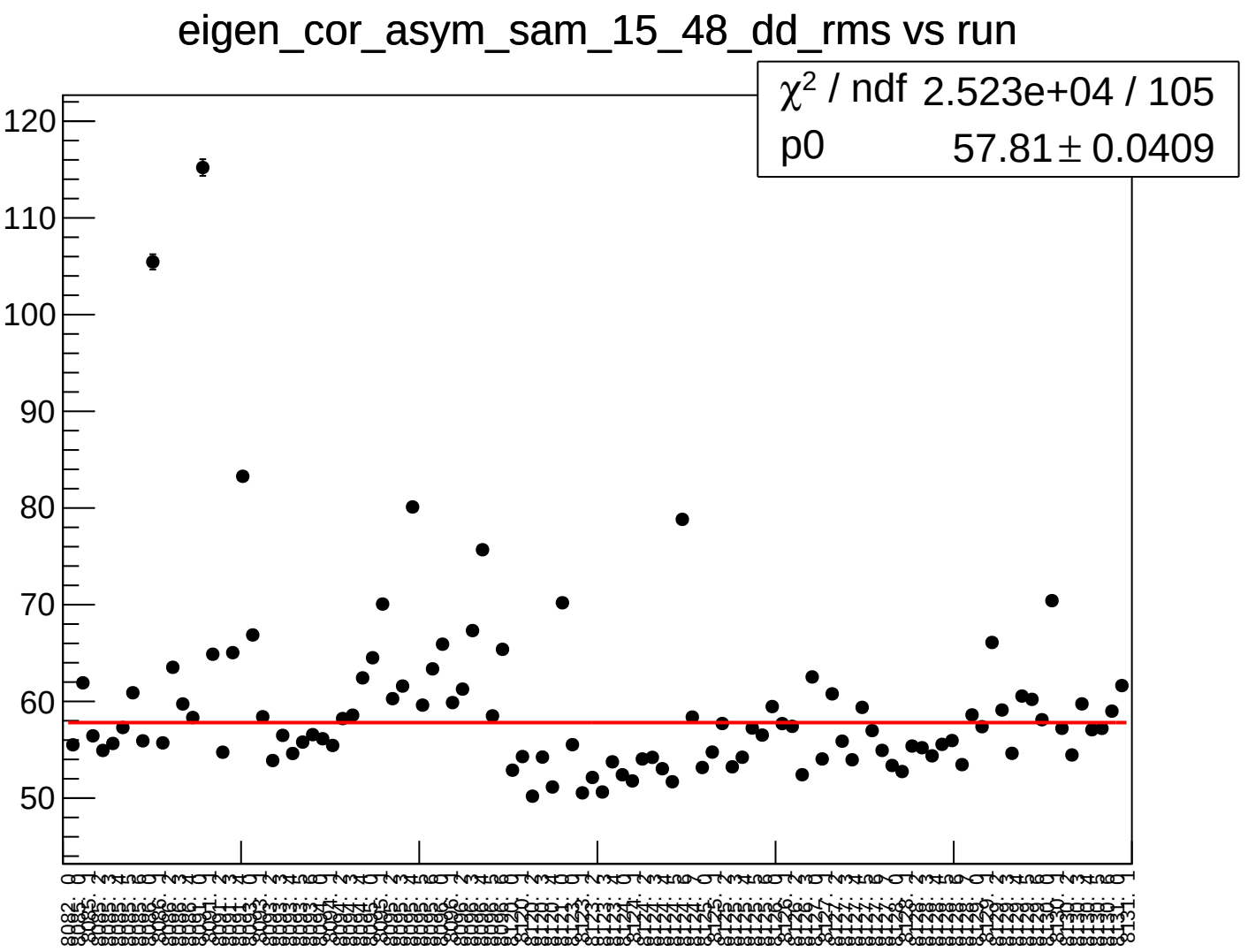

asym_sam_15_48_dd_cor_correction_mean vs run
χ² / ndf 69.31 / 105
p0 1464 ± 1038
pull
Entries 106
Mean 78.95
Std Dev 0

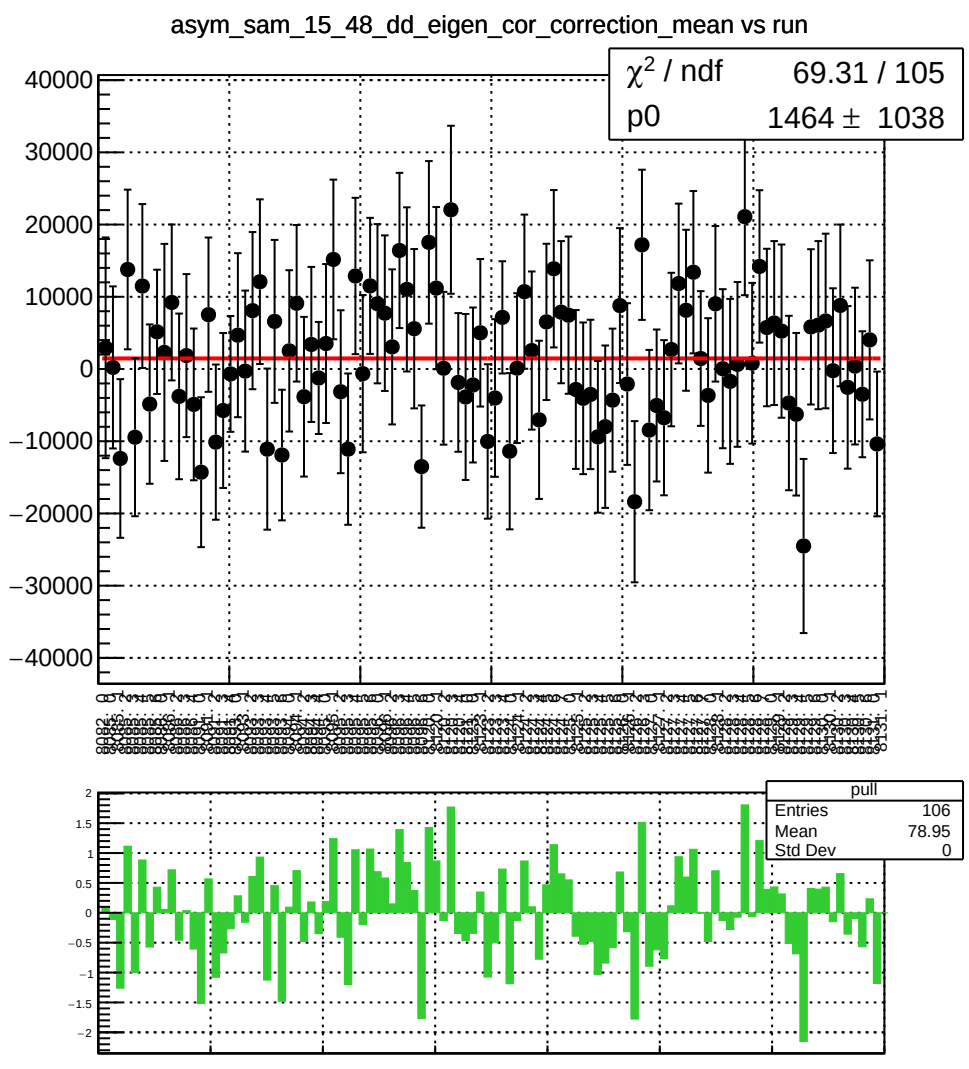

pull1D
Entries 106
Mean 0.008698
Std Dev 0.8086

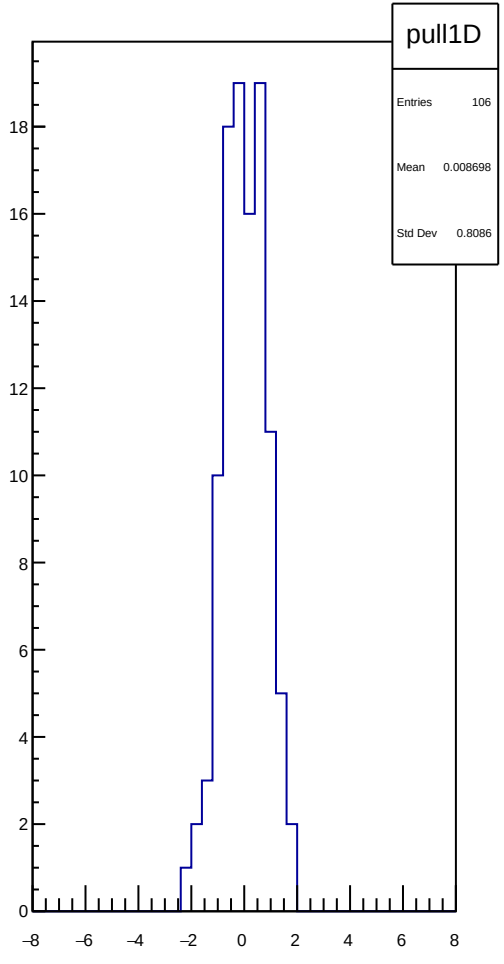

asym_sam_15_48_dd_cor_correction_rms vs run
χ² / ndf 3560 / 105
p0 1043 ± 0.734
1400
1300
1200
1100
1000

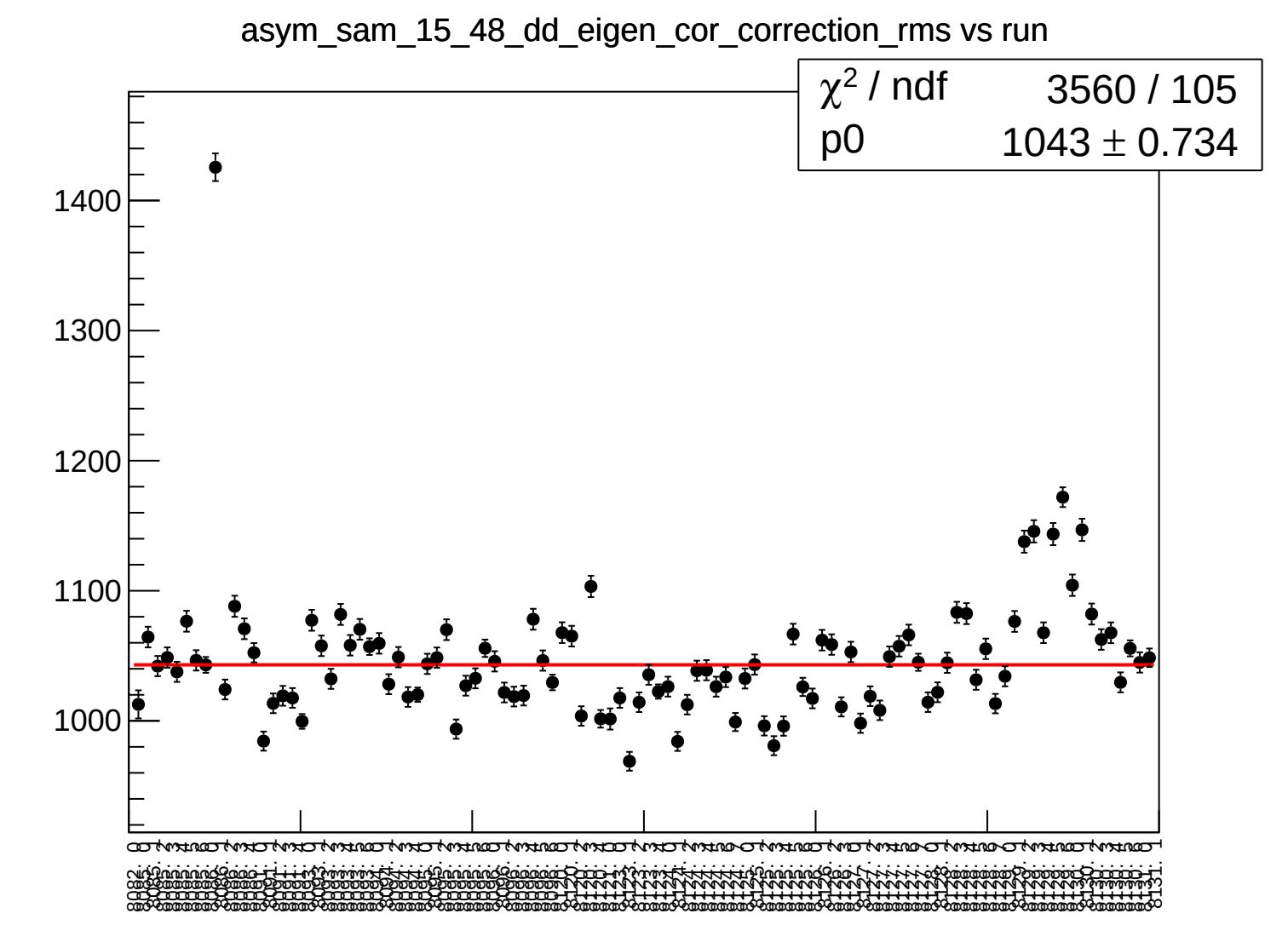

eigen_cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 105.2 / 105
p0 −52.48 ± 57.84
2000
1000
0
−1000
−2000
−3000
pull
Entries 106
Mean −216
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

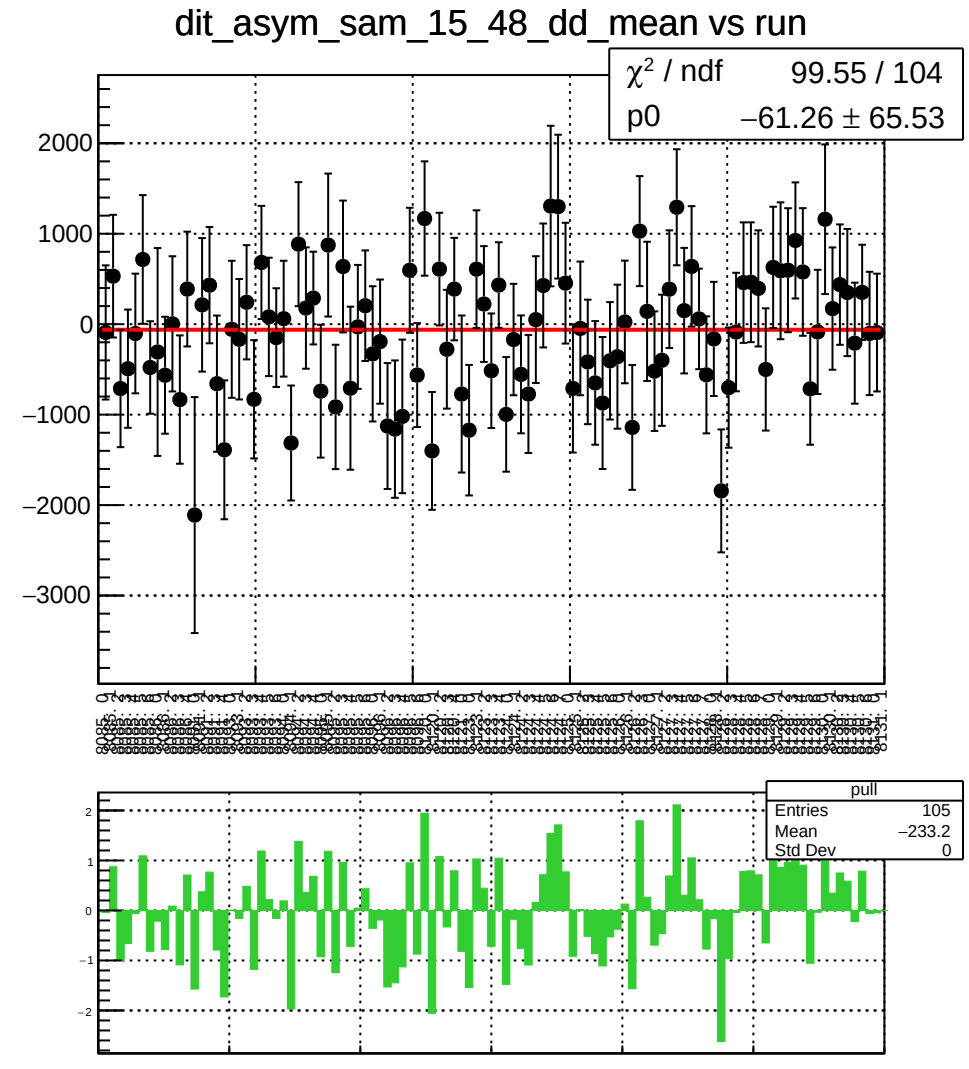

pull1D
Entries 106
Mean −0.02241
Std Dev 0.9959
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

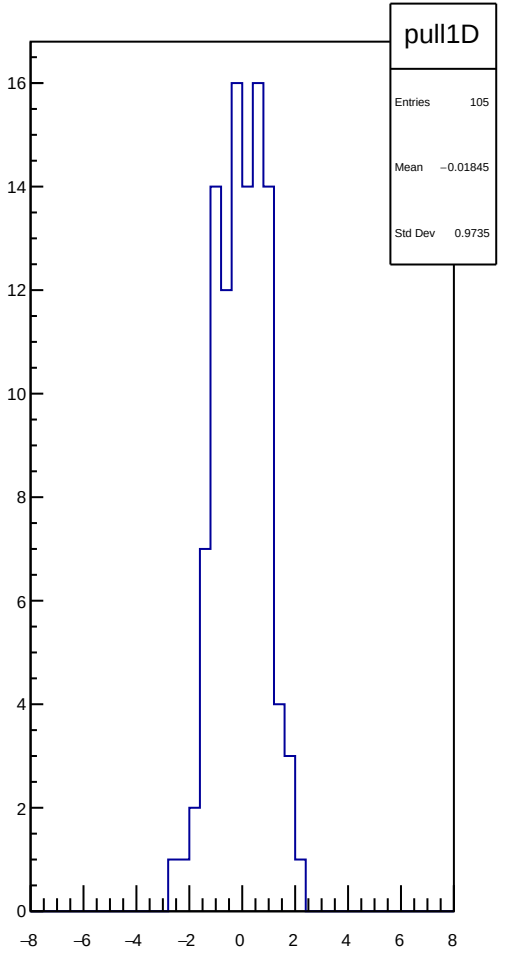

eigen_cor_asym_sam_15_48_dd_rms vs run
$\chi^2$ / ndf 2.523e+04 / 105
p0 57.81 ± 0.0409
120
110
100
90
80
70
60
50

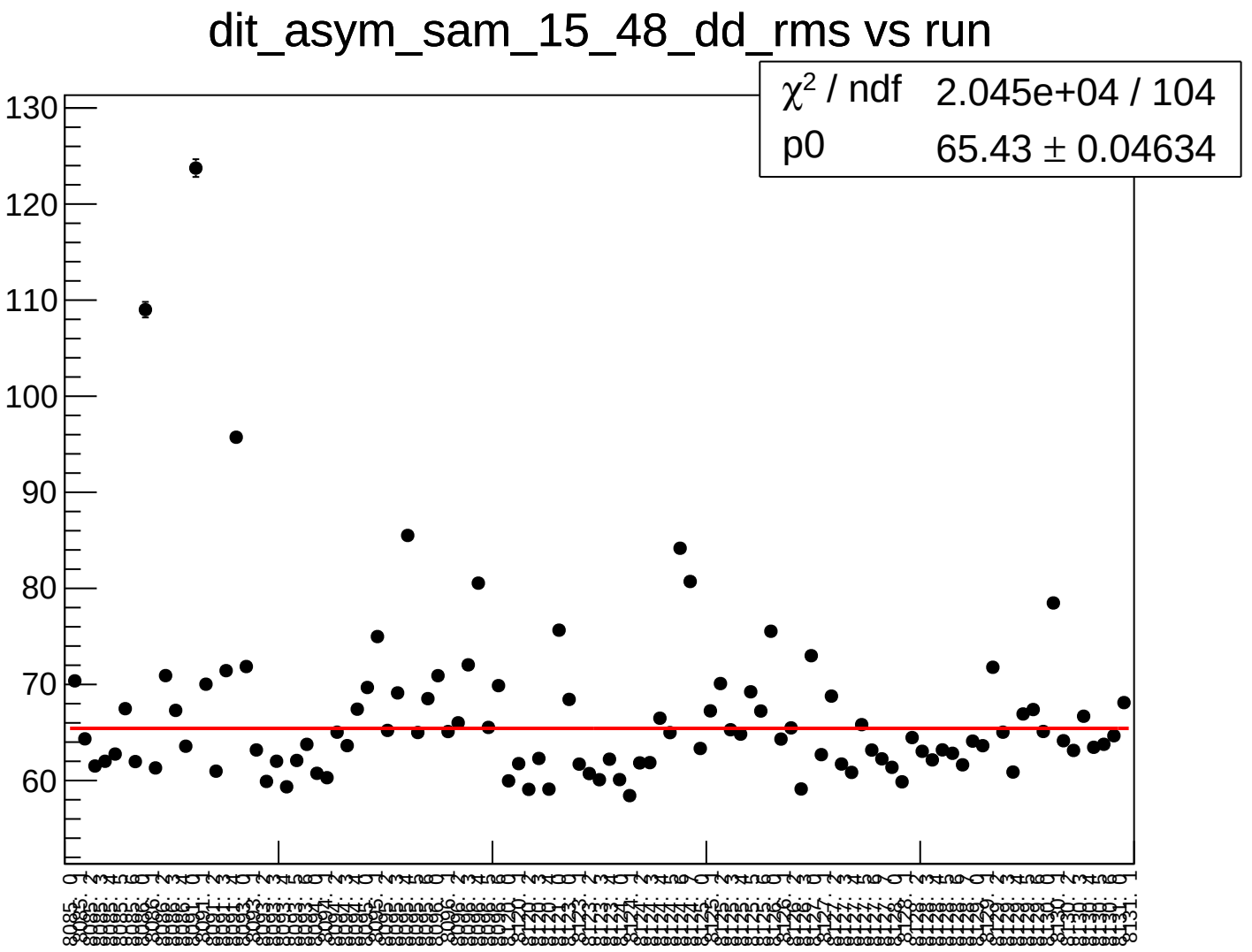

asym_sam_15_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 69.31 / 105
p0 1464 ± 1038
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 106
Mean 78.95
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

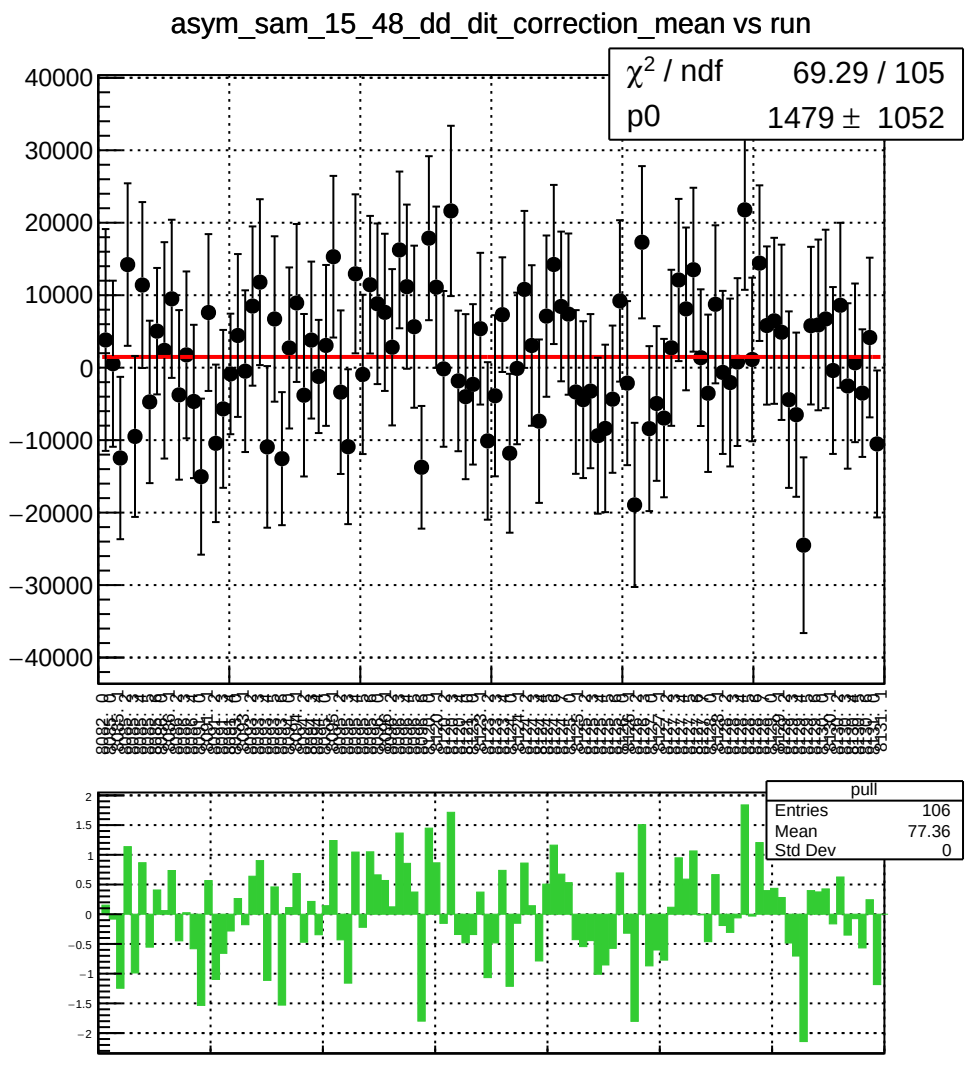

pull1D
Entries 106
Mean 0.008698
Std Dev 0.8086
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

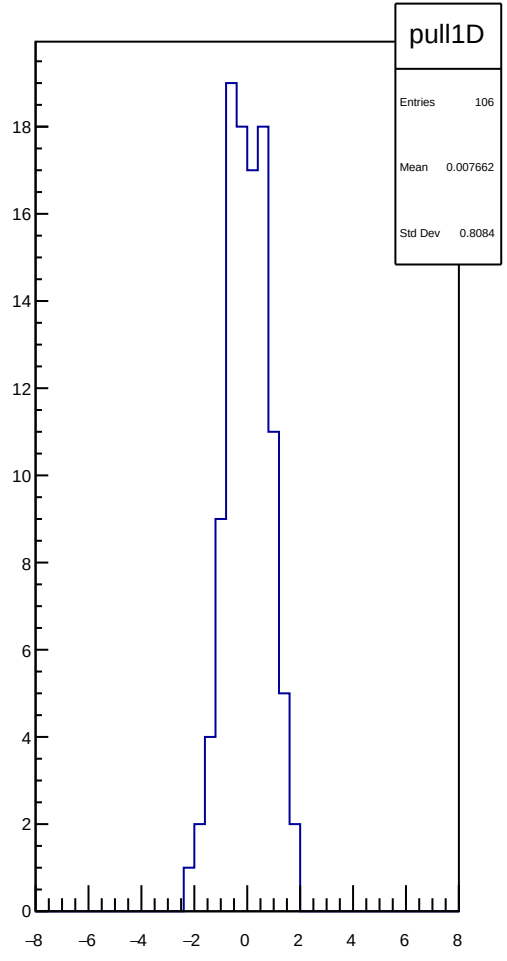

asym_sam_15_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 3560 / 105
p0 1043 ± 0.734
1400
1300
1200
1100
1000

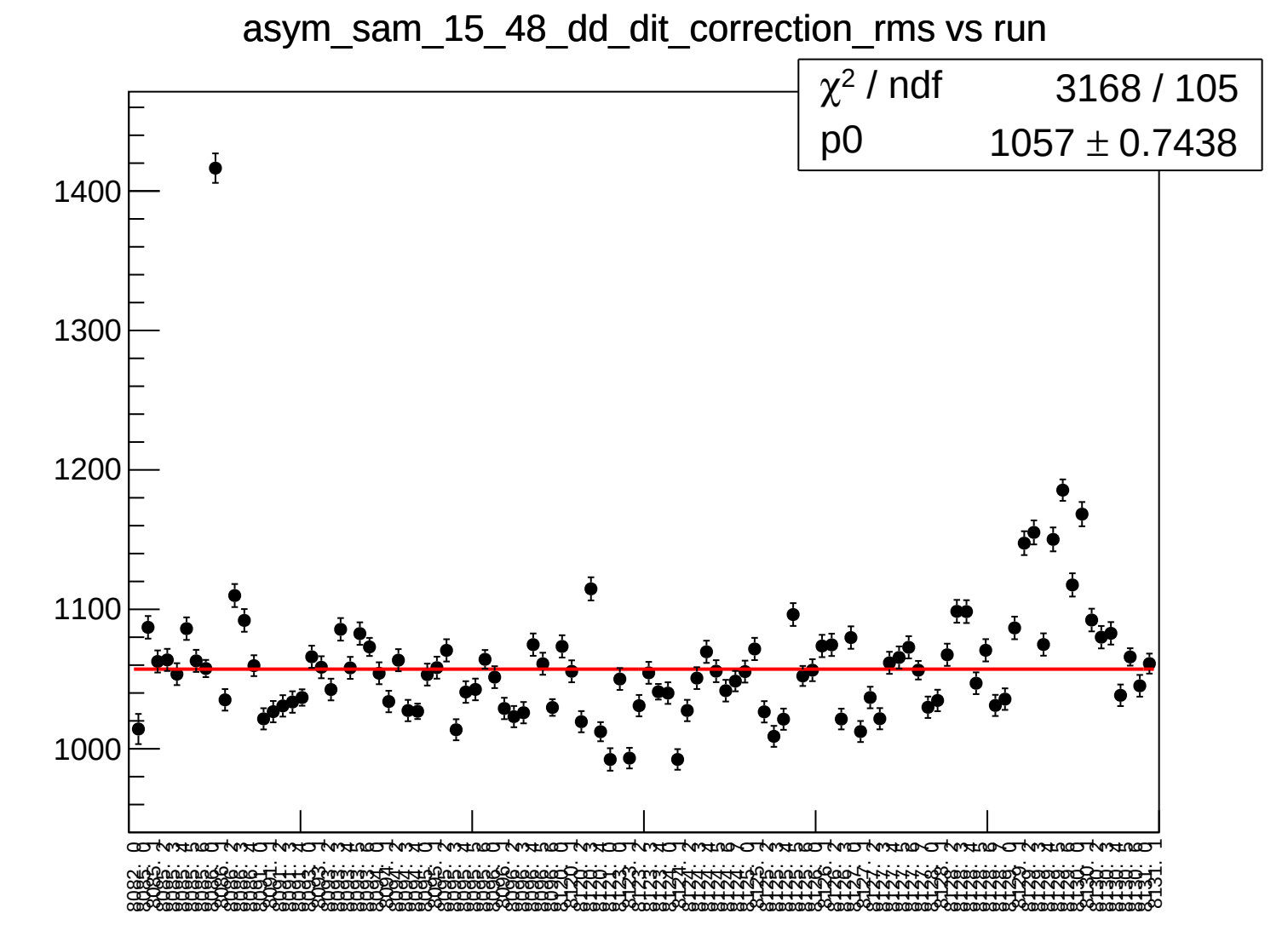

dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 99.55 / 104
p0 −61.26 ± 65.53
2000
1000
0
−1000
−2000
−3000
pull
Entries 105
Mean −233.2
Std Dev 0
2
1
0
−1
−2

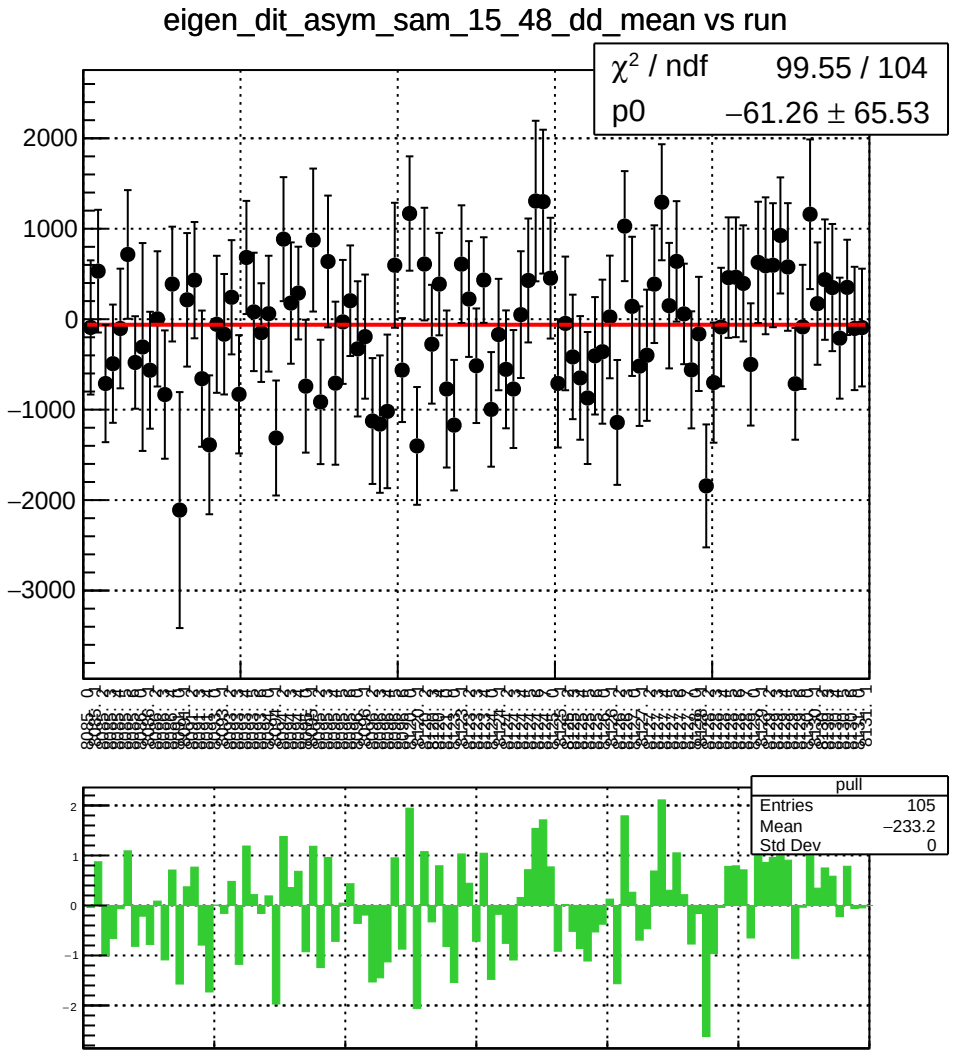

pull1D
Entries 105
Mean −0.01845
Std Dev 0.9735
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

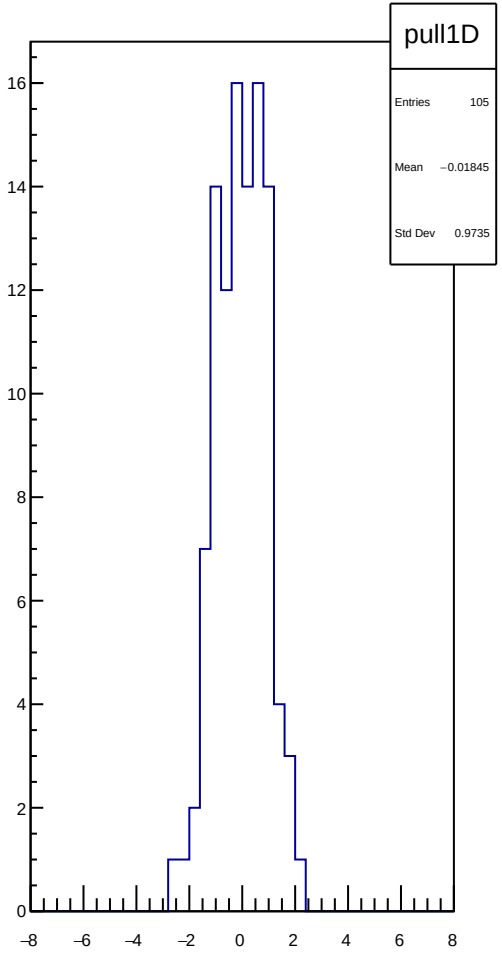

dit_asym_sam_15_48_dd_rms vs run
$\chi^2$ / ndf 2.045e+04 / 104
p0 65.43 ± 0.04634
130
120
110
100
90
80
70
60

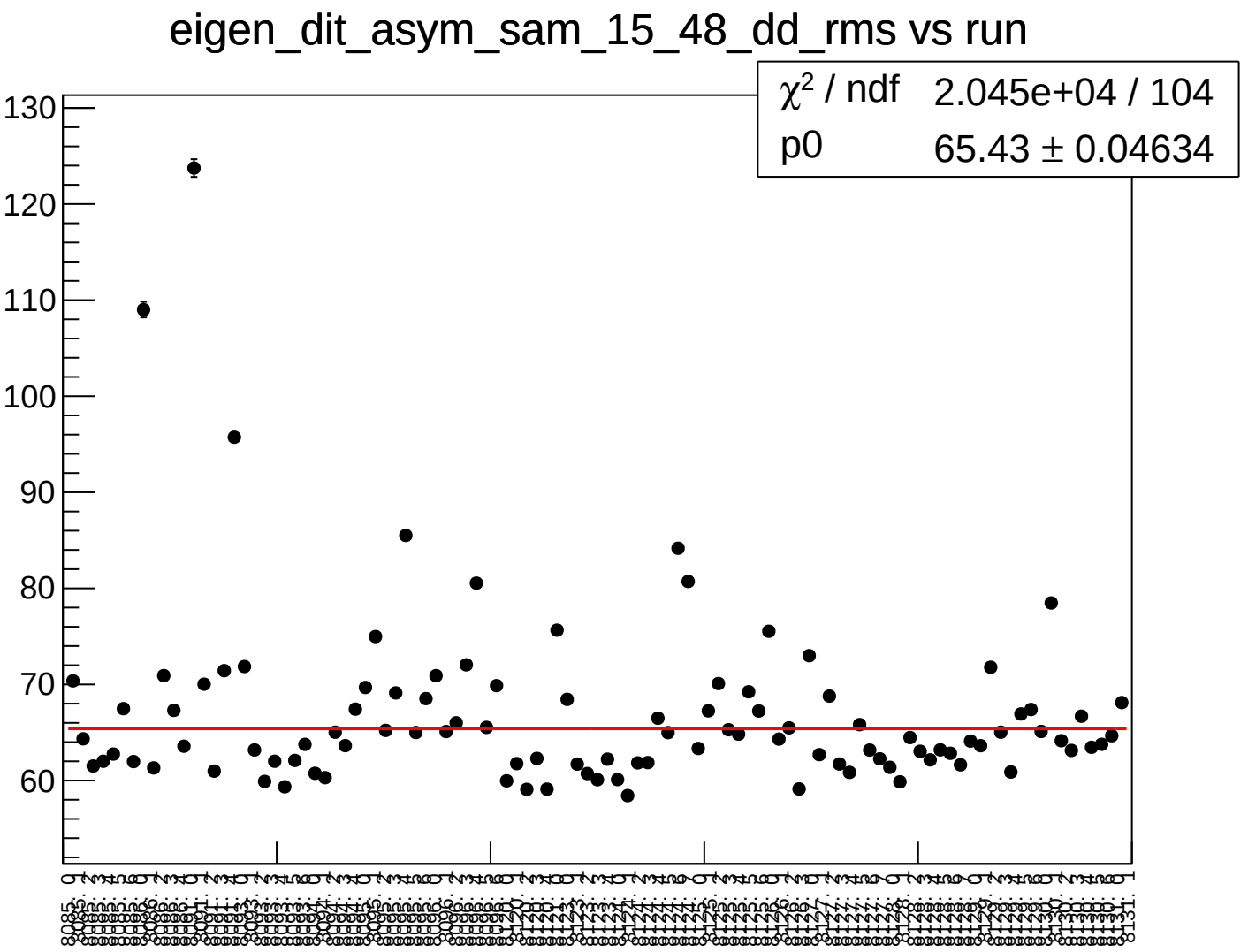

asym_sam_15_48_dd_dit_correction_mean vs run
χ² / ndf 69.29 / 105
p0 1479 ± 1052
pull
Entries 106
Mean 77.36
Std Dev 0

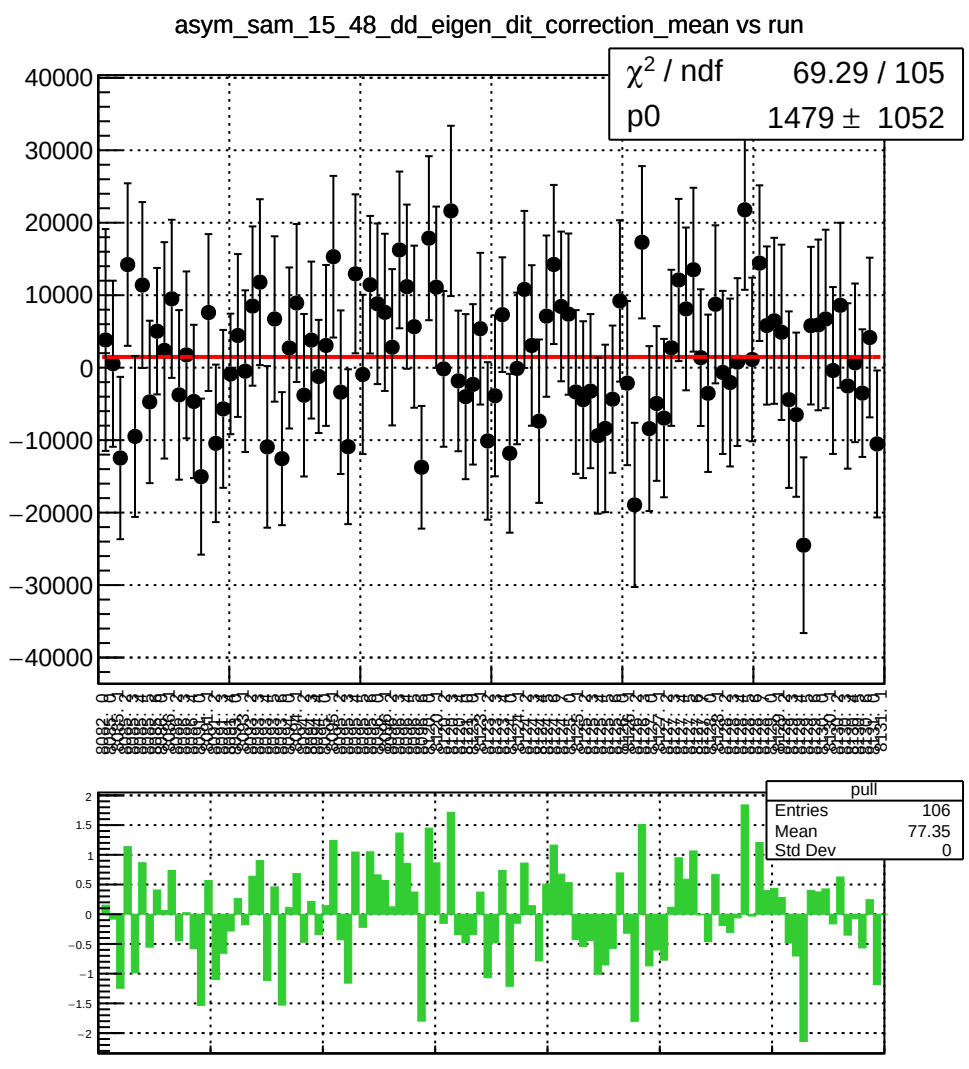

pull1D
Entries 106
Mean 0.007662
Std Dev 0.8084

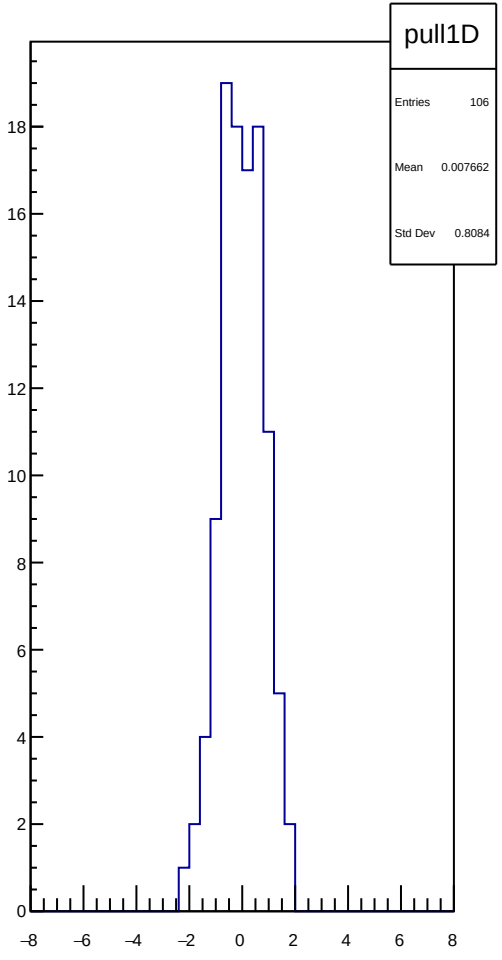

asym_sam_15_48_dd_dit_correction_rms vs run
χ² / ndf 3168 / 105
p0 1057 ± 0.7438
1400
1300
1200
1100
1000

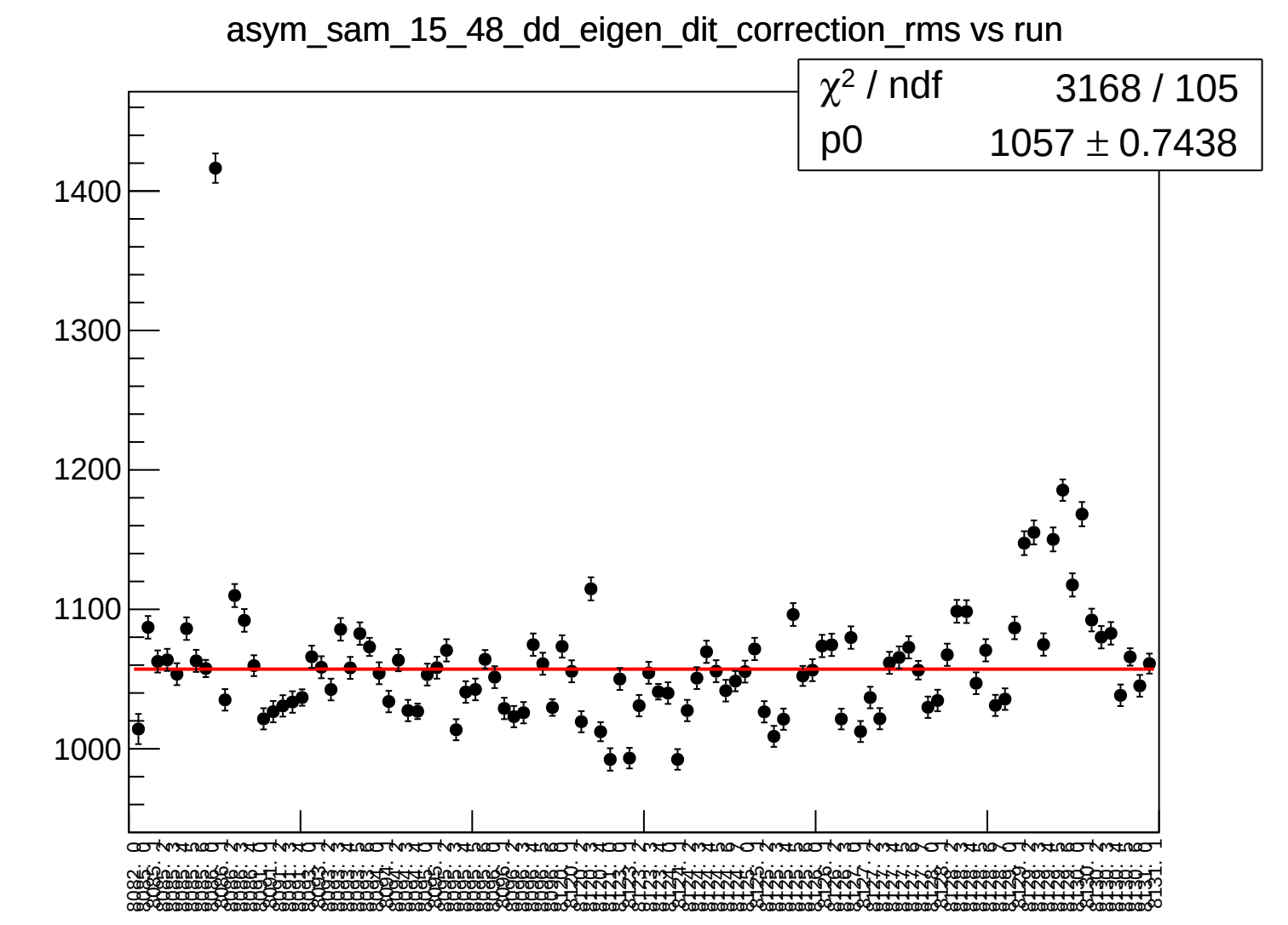

eigen_dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 99.55 / 104
p0 −61.26 ± 65.53
2000
1000
0
−1000
−2000
−3000
pull
Entries 105
Mean −233.2
Std Dev 0
2
1
0
−1
−2

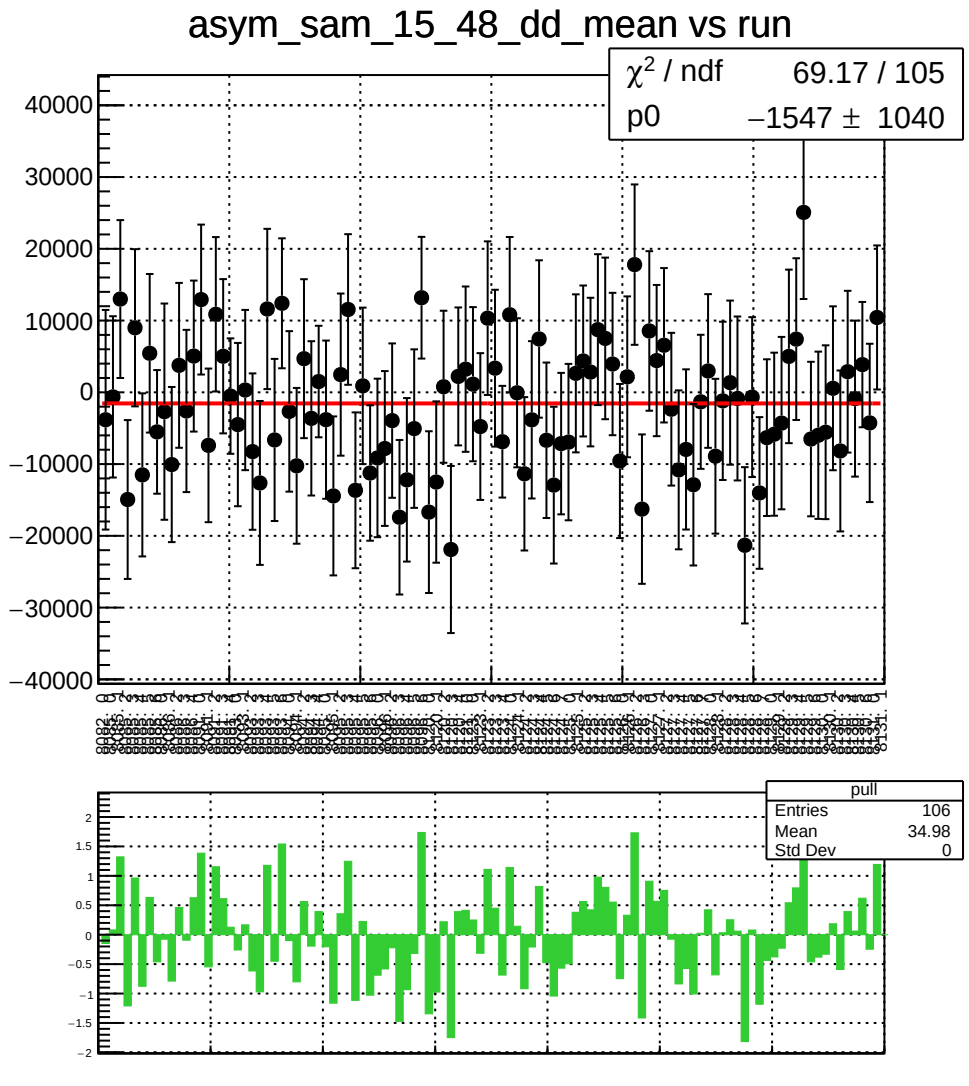

pull1D
Entries 105
Mean −0.01845
Std Dev 0.9735
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

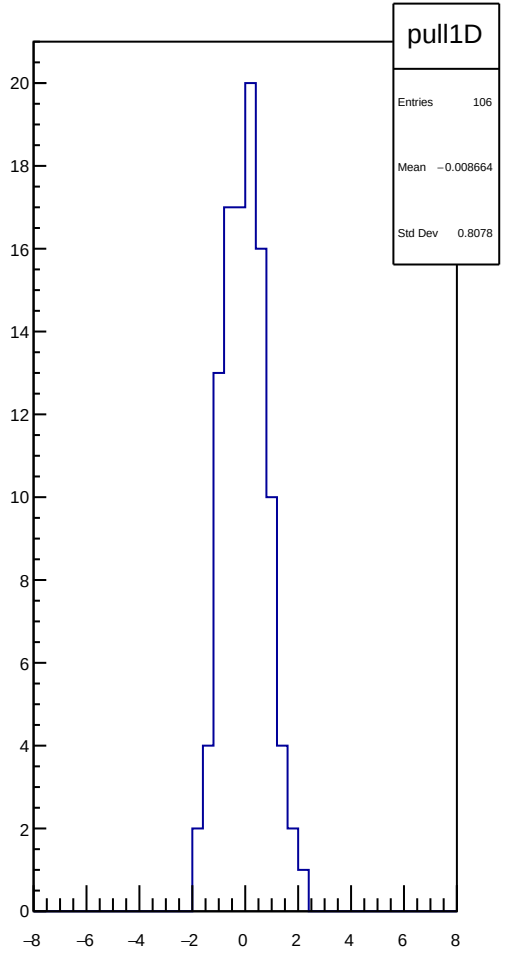

eigen_dit_asym_sam_15_48_dd_rms vs run
$\chi^2$ / ndf 2.045e+04 / 104
p0 65.43 ± 0.04634
130
120
110
100
90
80
70
60

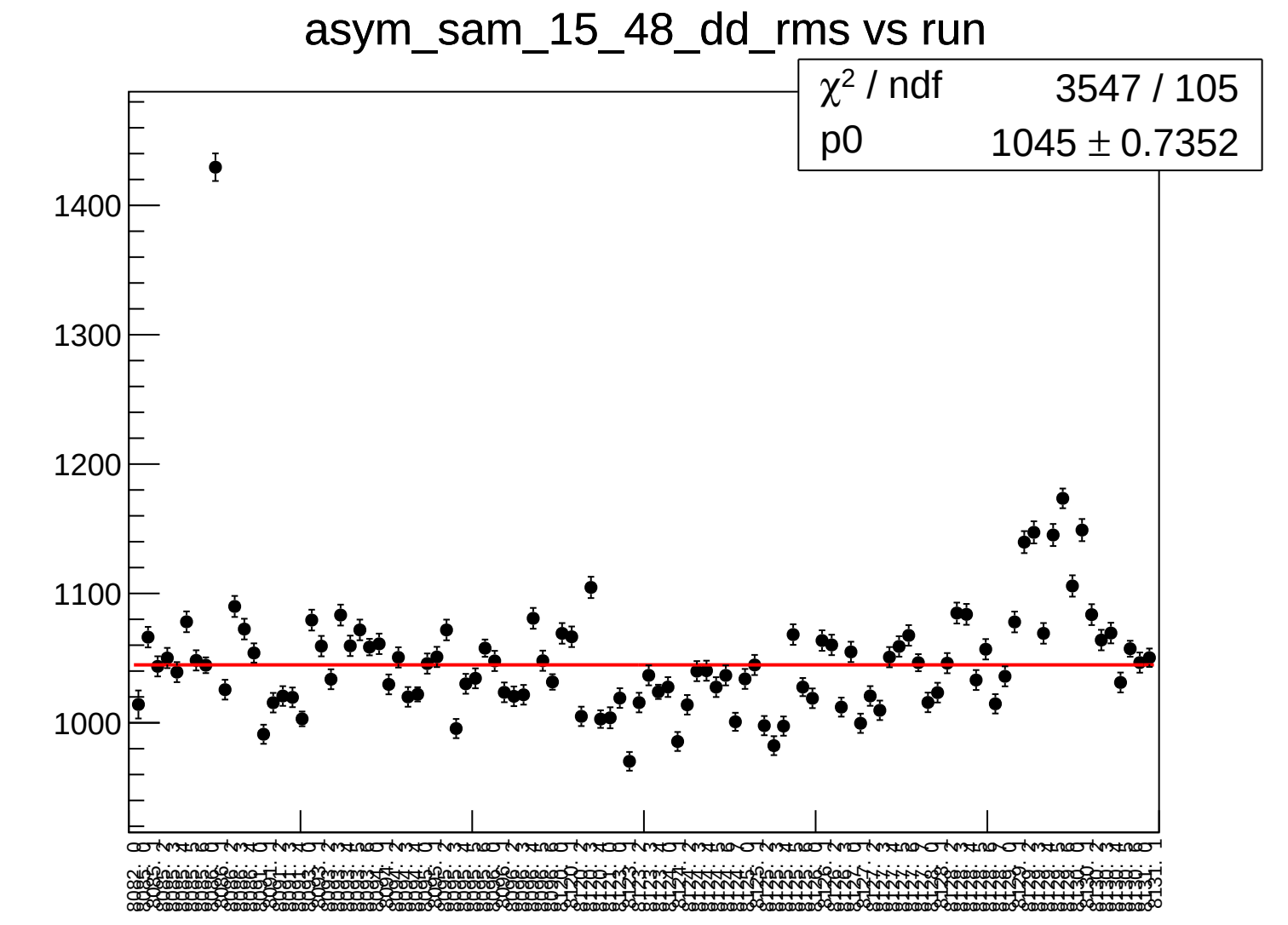

asym_sam_15_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 69.29 / 105
p0 1479 ± 1052
pull
Entries 106
Mean 77.35
Std Dev 0

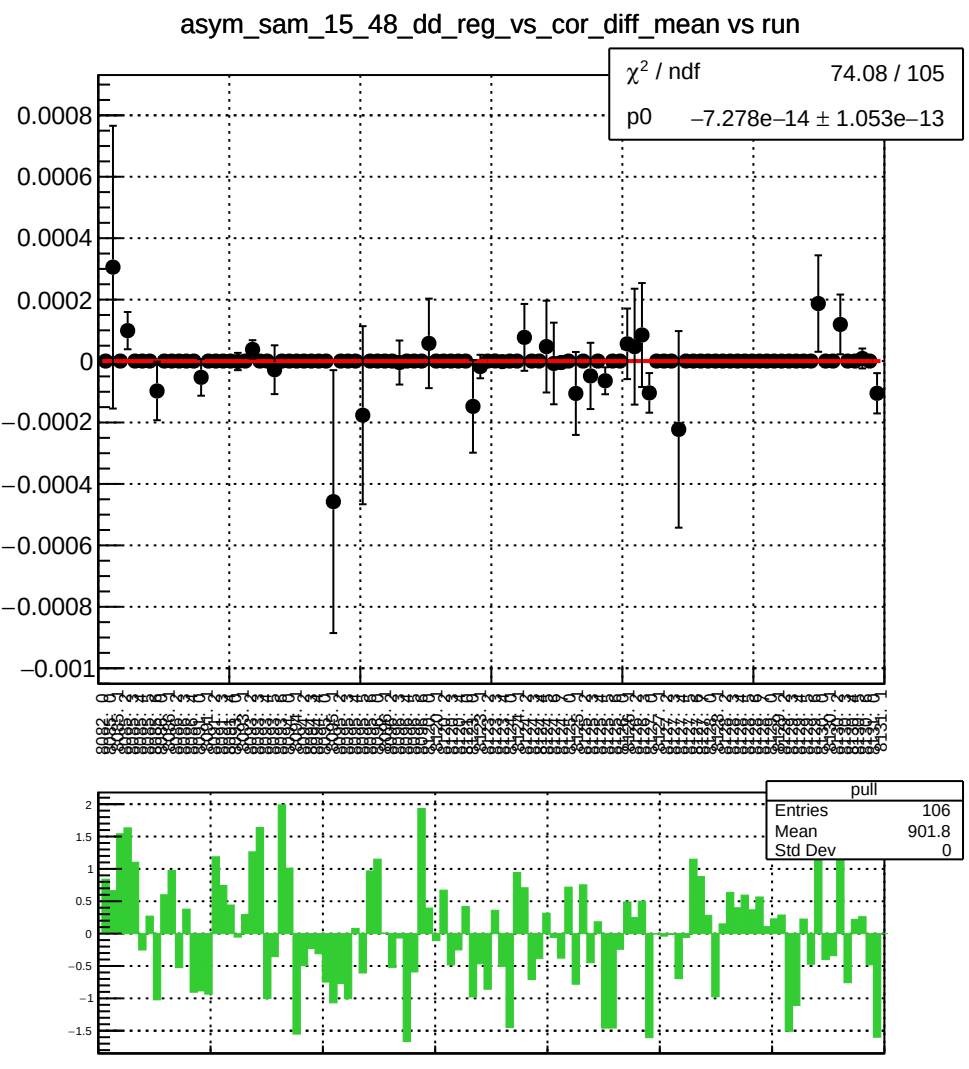

pull1D
Entries 106
Mean 0.007662
Std Dev 0.8084

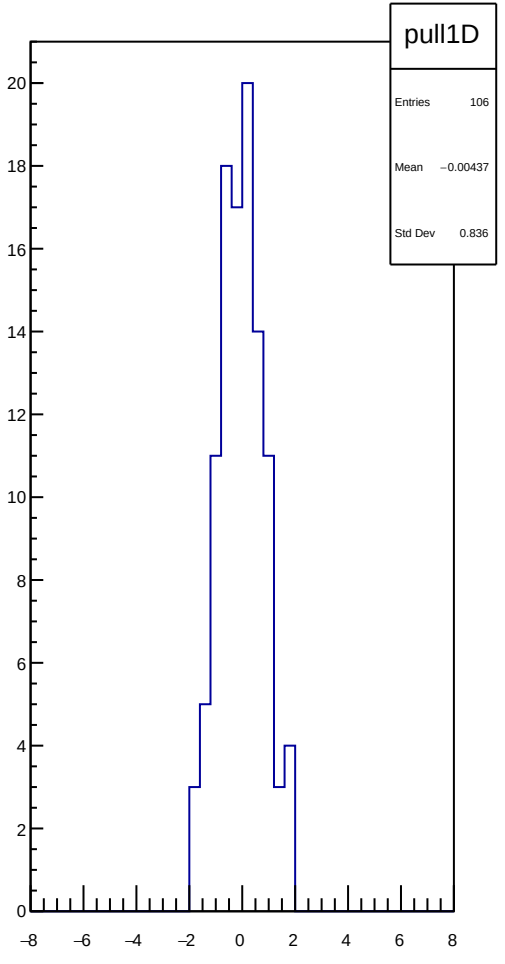

asym_sam_15_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 3168 / 105
p0 1057 ± 0.7438
1400
1300
1200
1100
1000

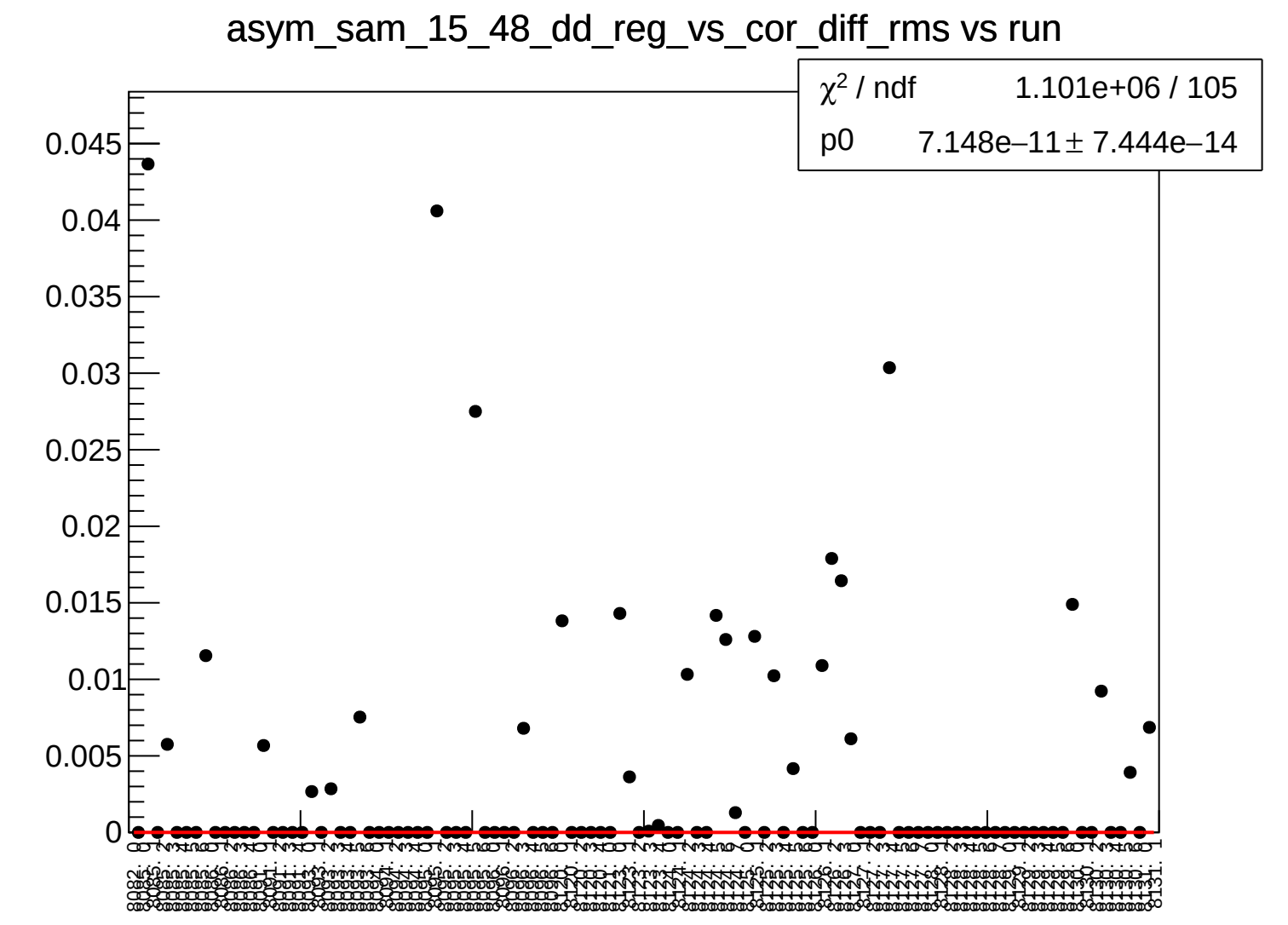

asym_sam_15_48_dd_mean vs run
$\chi^2$ / ndf 69.17 / 105
p0 −1547 ± 1040
pull
Entries 106
Mean 34.98
Std Dev 0

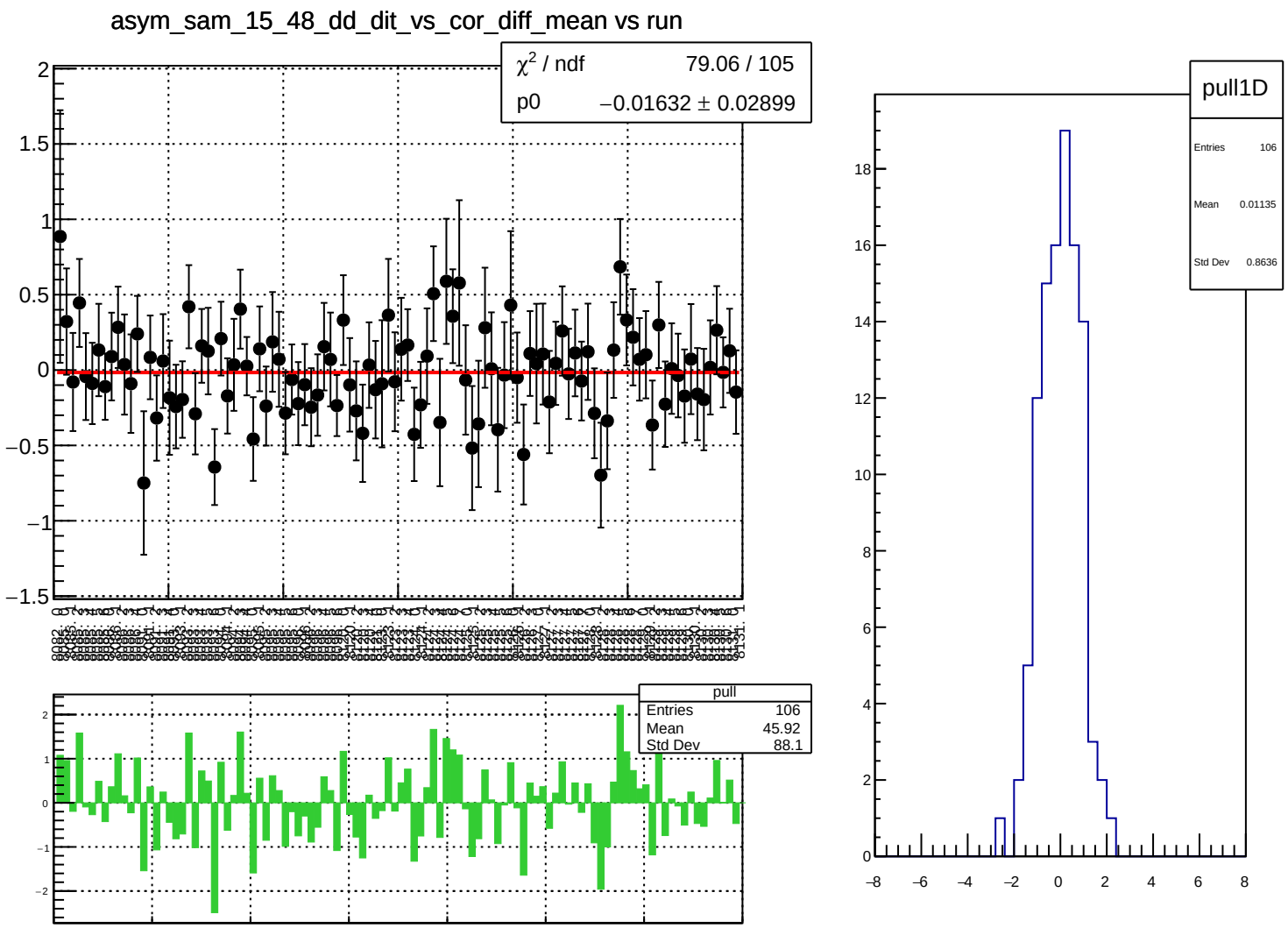

pull1D
Entries 106
Mean −0.008664
Std Dev 0.8078

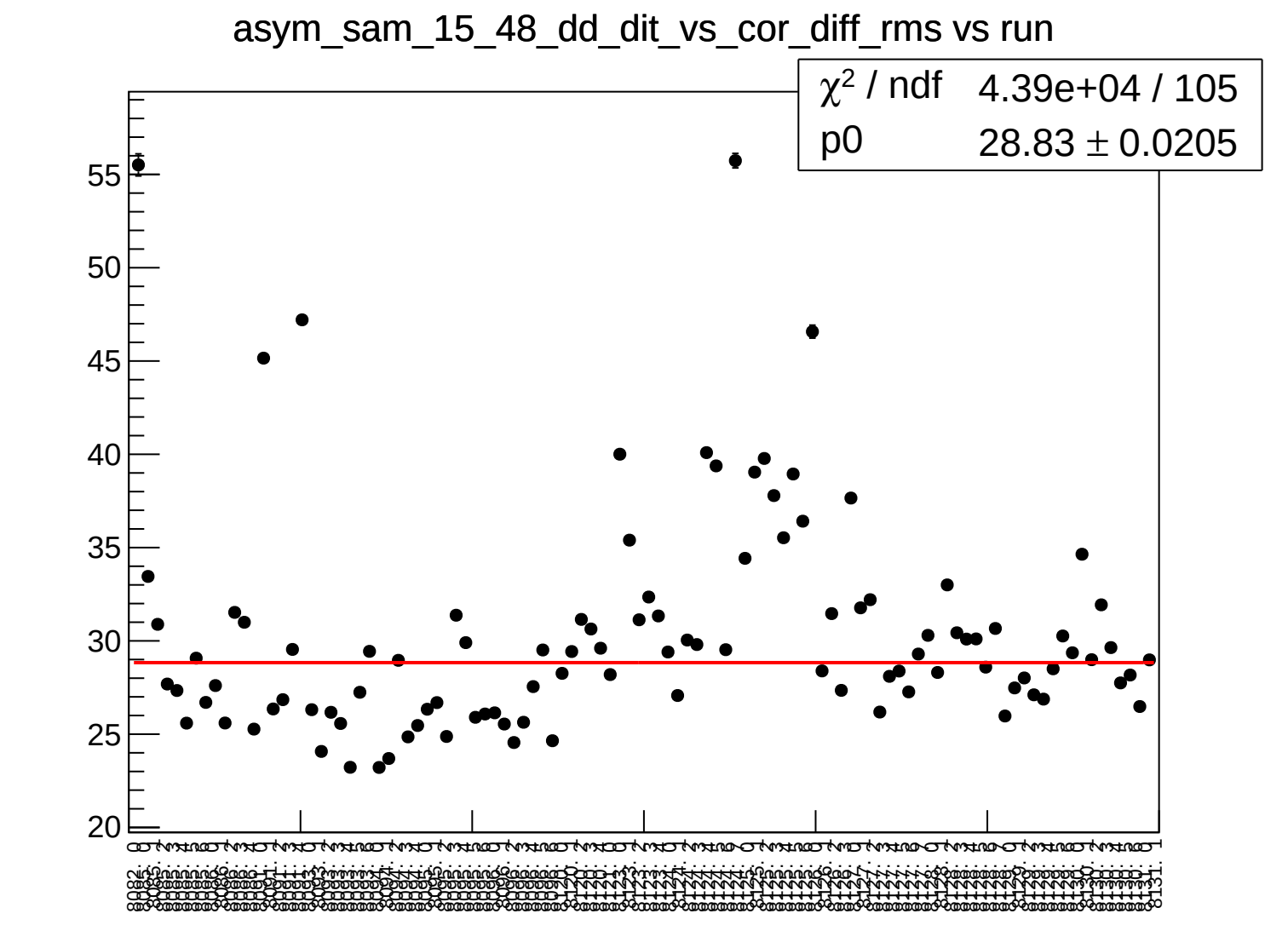

asym_sam_15_48_dd_rms vs run
χ² / ndf 3547 / 105
p0 1045 ± 0.7352
1400
1300
1200
1100
1000

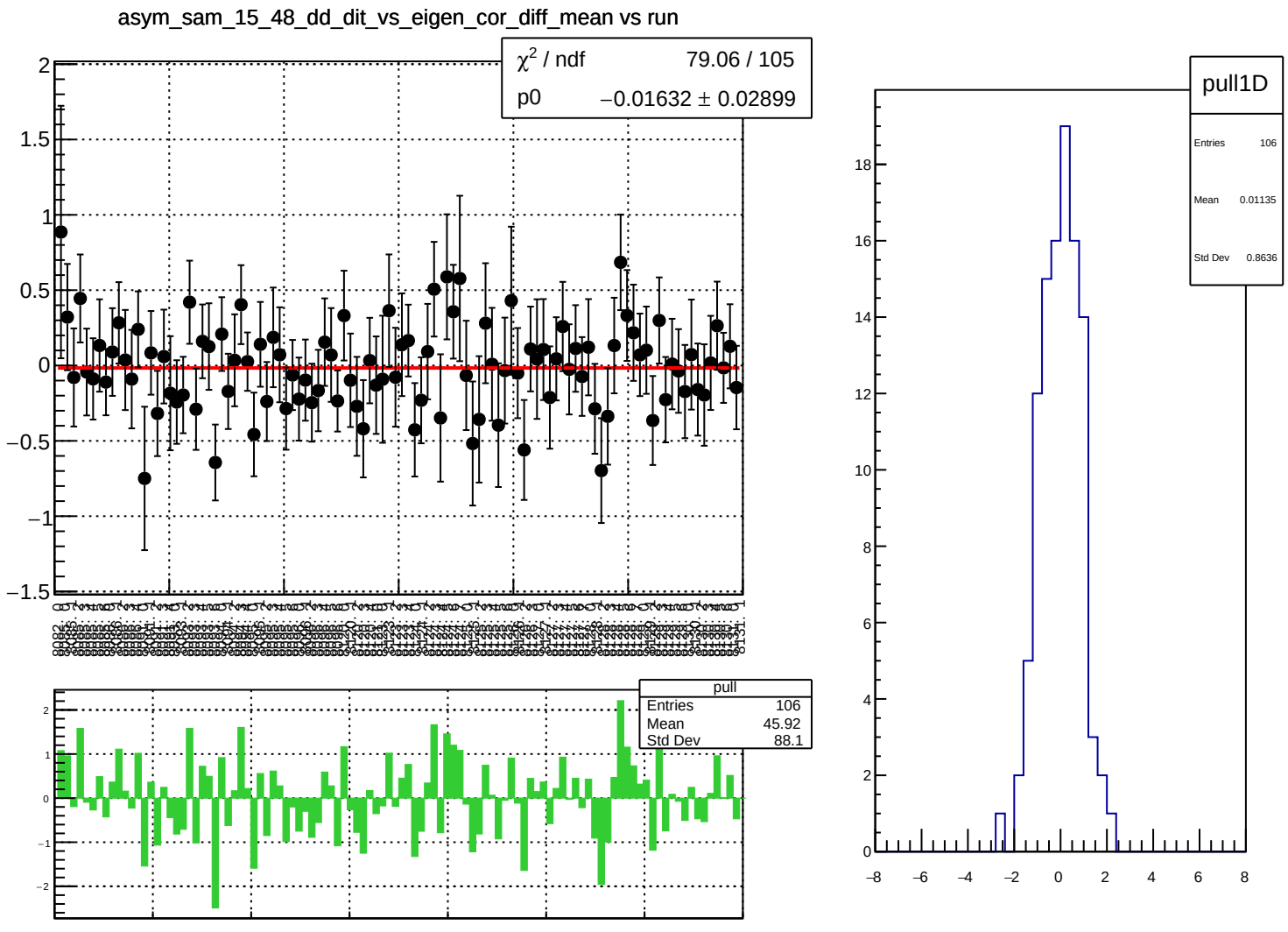

asym_sam_15_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 74.08 / 105
p0 −7.278e−14 ± 1.053e−13
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 106
Mean 901.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

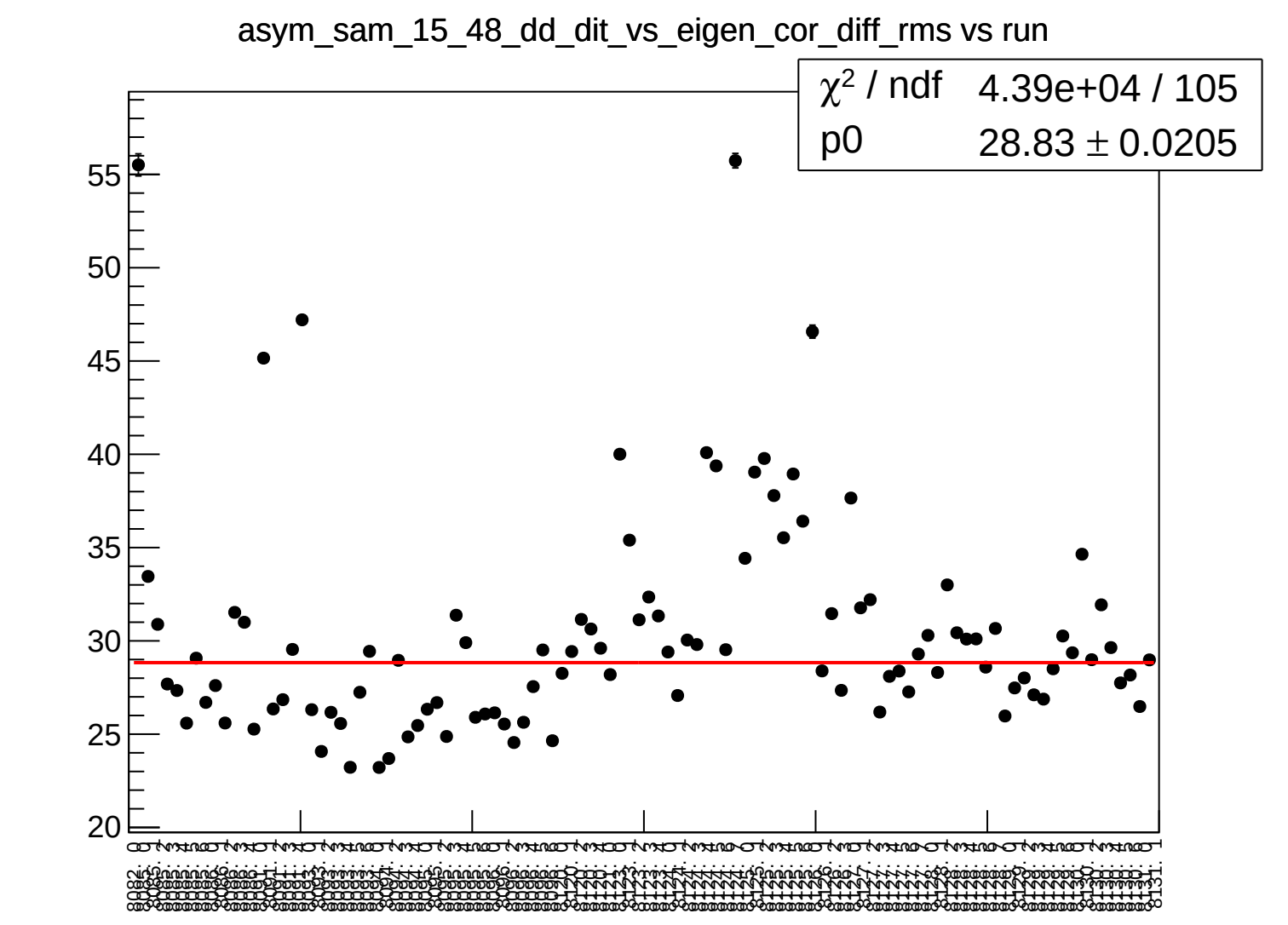

pull1D
Entries 106
Mean −0.00437
Std Dev 0.836
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

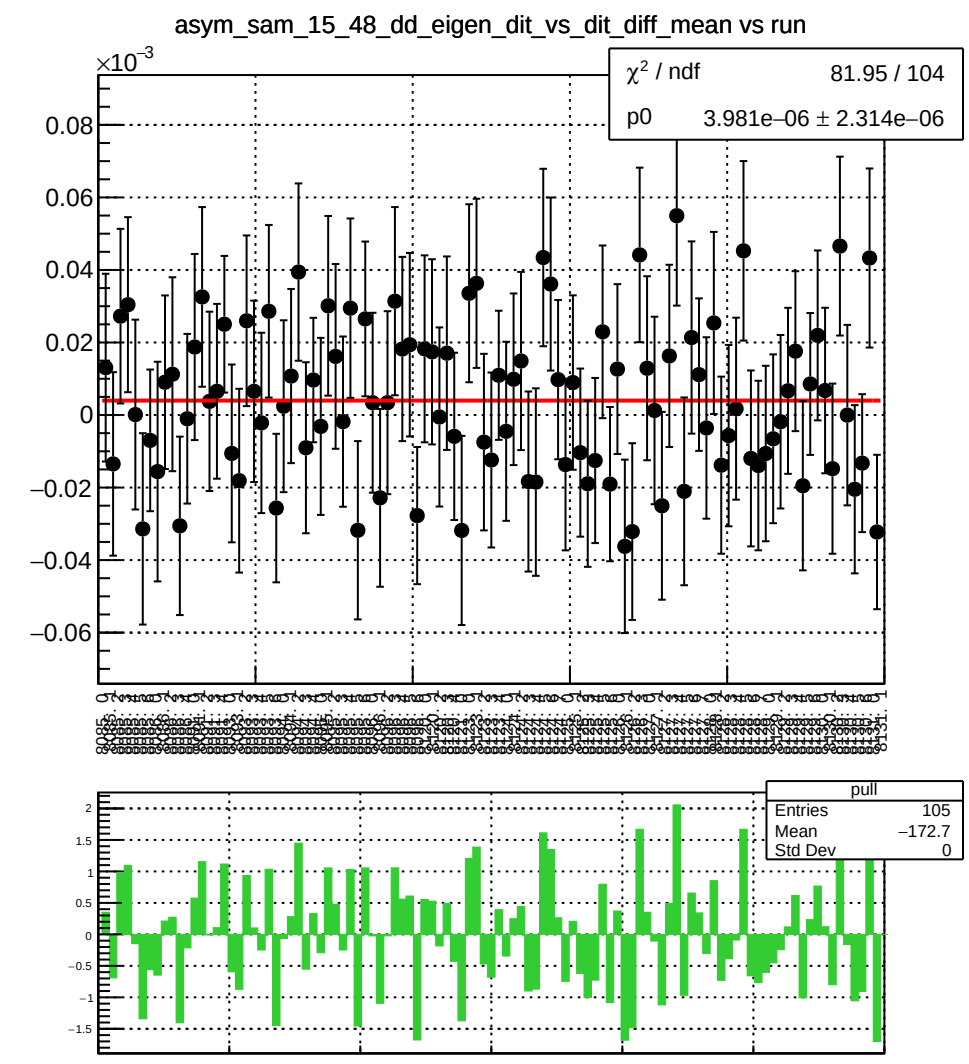

asym_sam_15_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.101e+06 / 105
p0 7.148e−11 ± 7.444e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

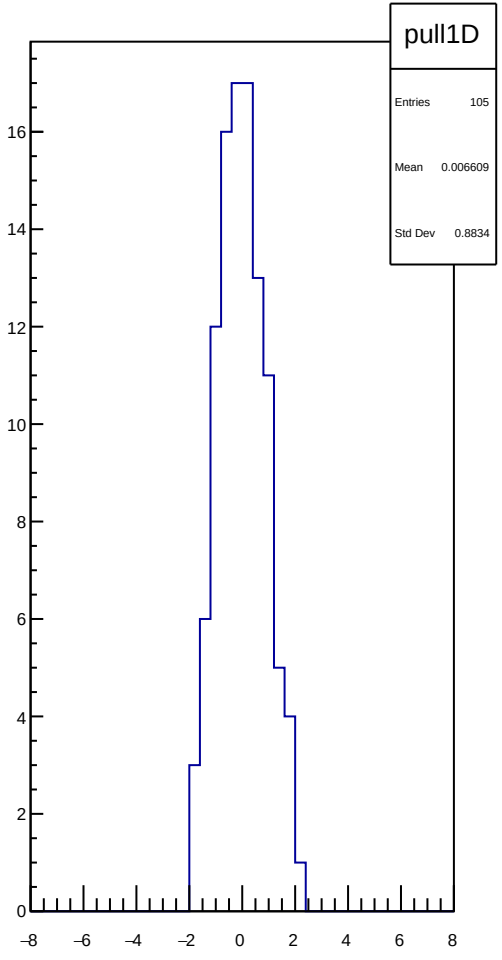

asym_sam_15_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 79.06 / 105
p0 −0.01632 ± 0.02899
pull
Entries 106
Mean 45.92
Std Dev 88.1
pull1D
Entries 106
Mean 0.01135
Std Dev 0.8636

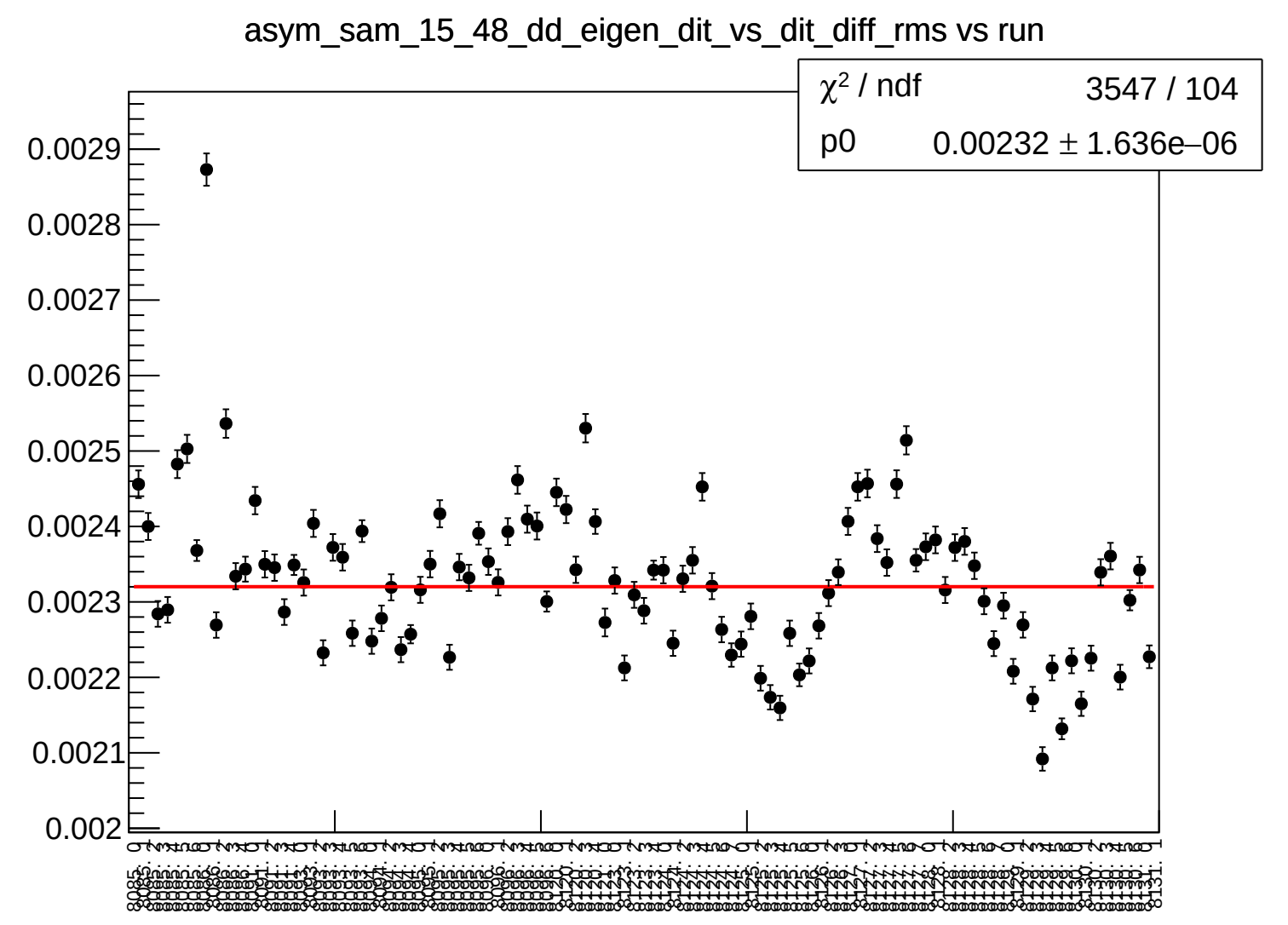

asym_sam_15_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.39e+04 / 105
p0 28.83 ± 0.0205
55
50
45
40
35
30
25
20

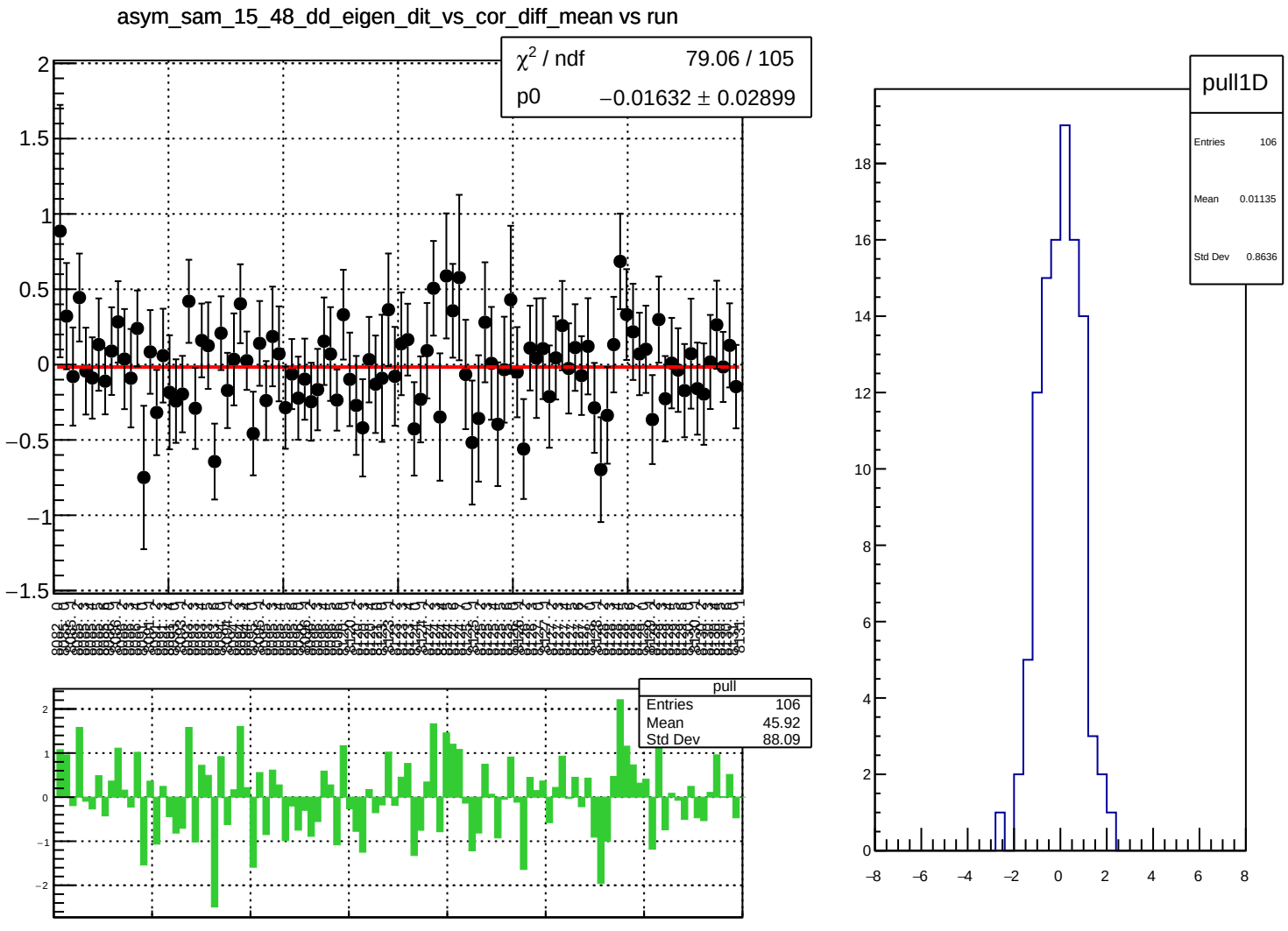

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.06 / 105
p0 −0.01632 ± 0.02899
pull
Entries 106
Mean 45.92
Std Dev 88.1
pull1D
Entries 106
Mean 0.01135
Std Dev 0.8636

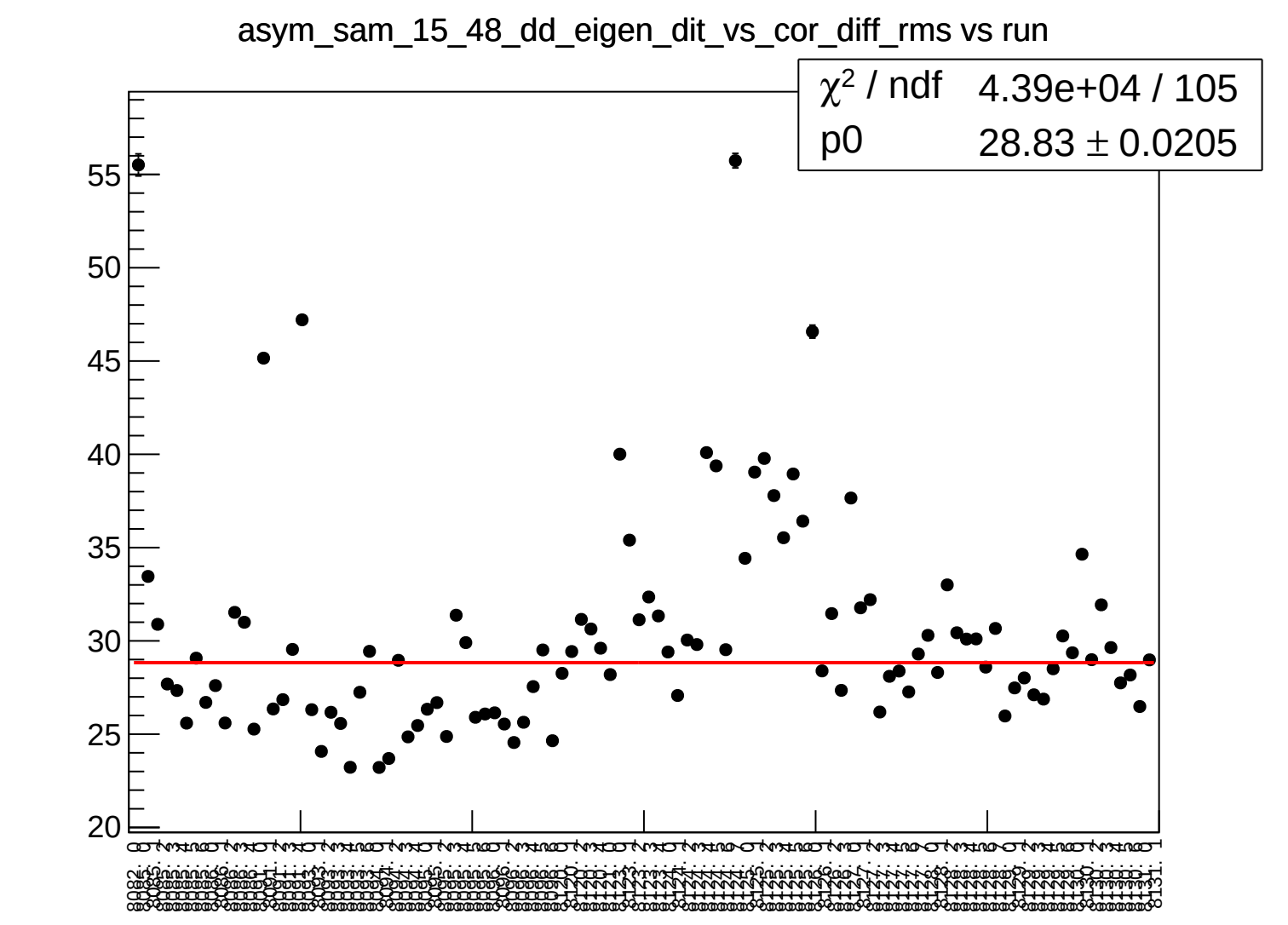

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.39e+04 / 105
p0 28.83 ± 0.0205
55
50
45
40
35
30
25
20

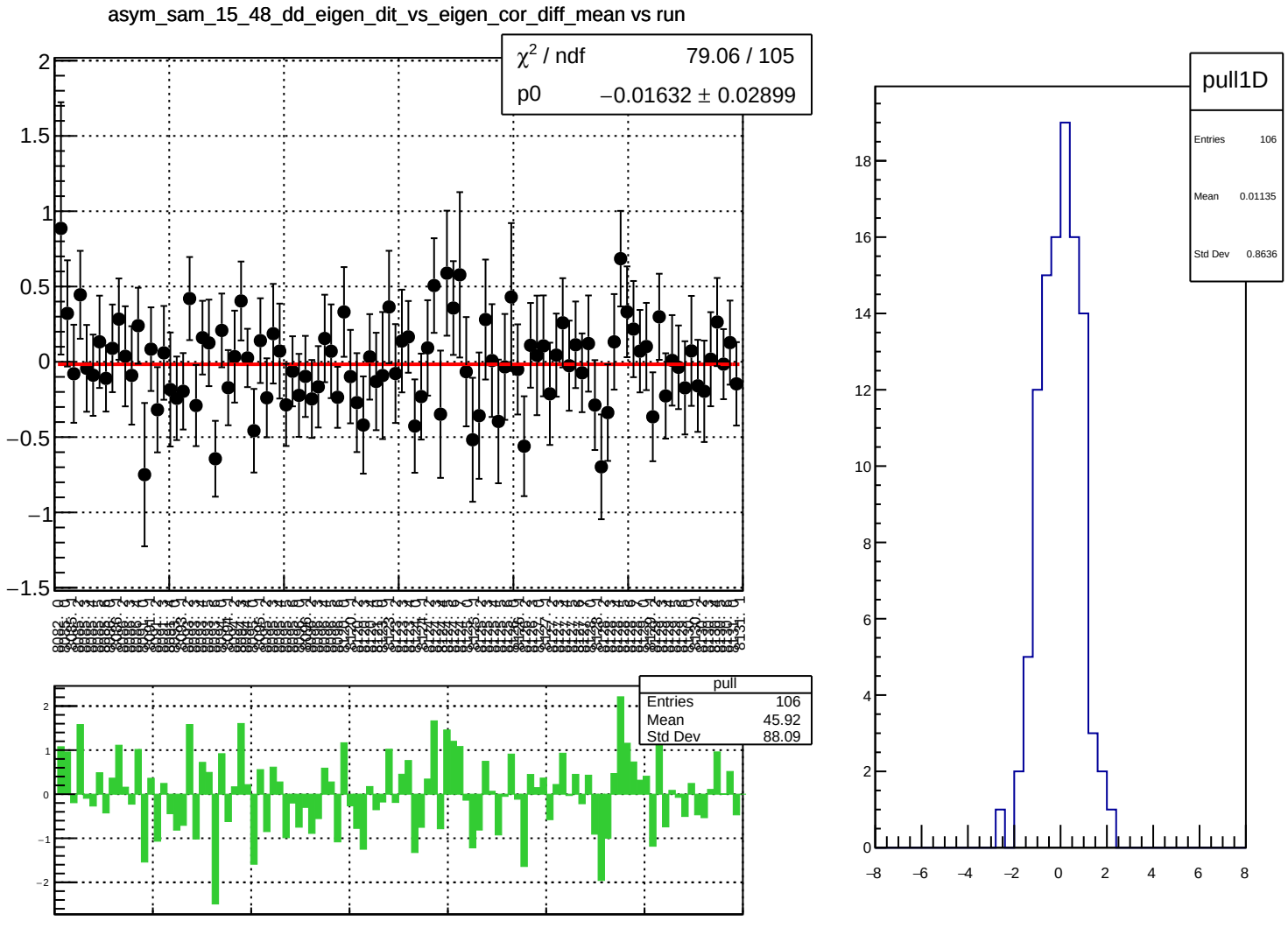

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 81.95 / 104
p0 3.981e−06 ± 2.314e−06
pull
Entries 105
Mean −172.7
Std Dev 0

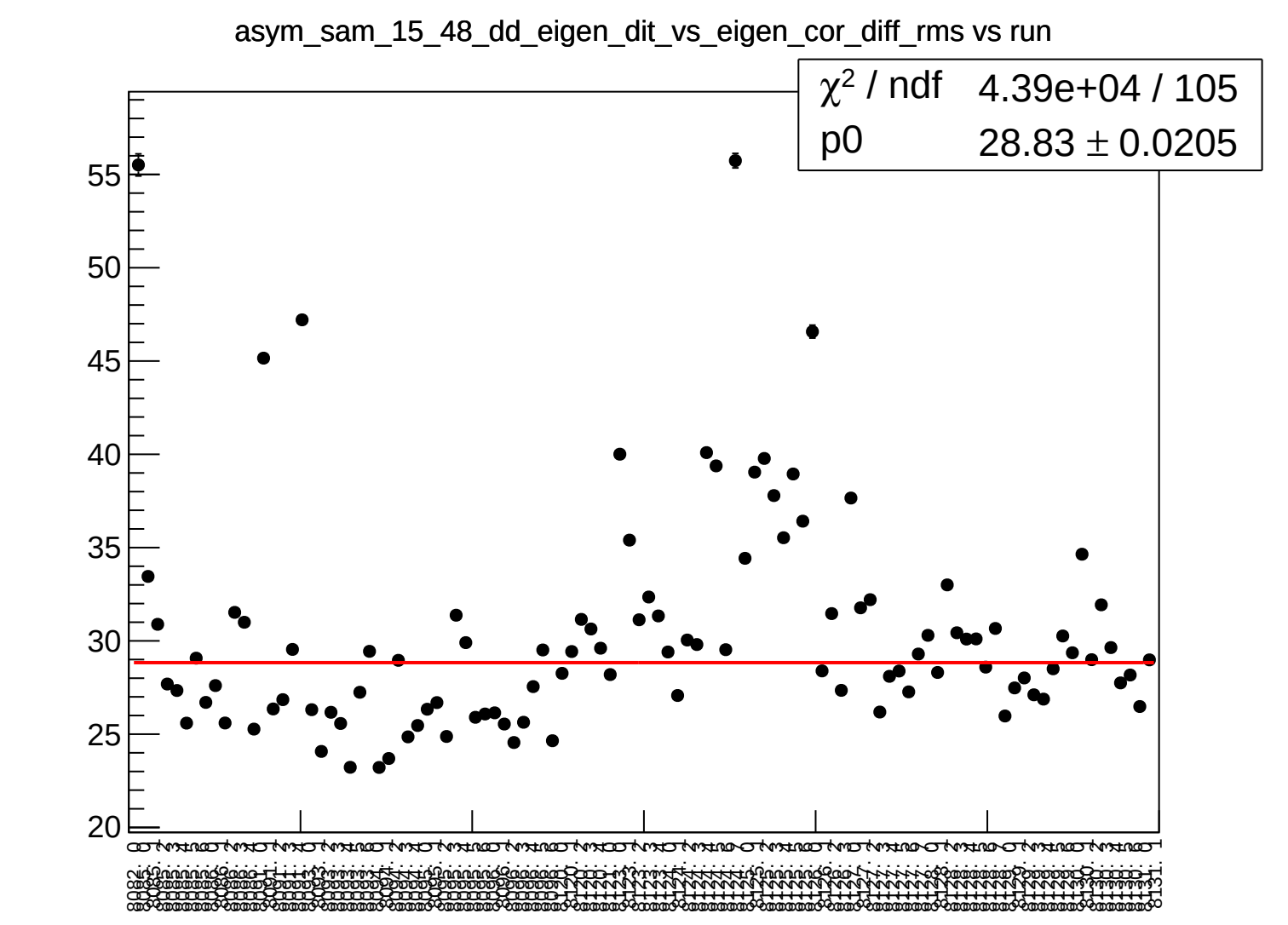

pull1D
Entries 105
Mean 0.006609
Std Dev 0.8834

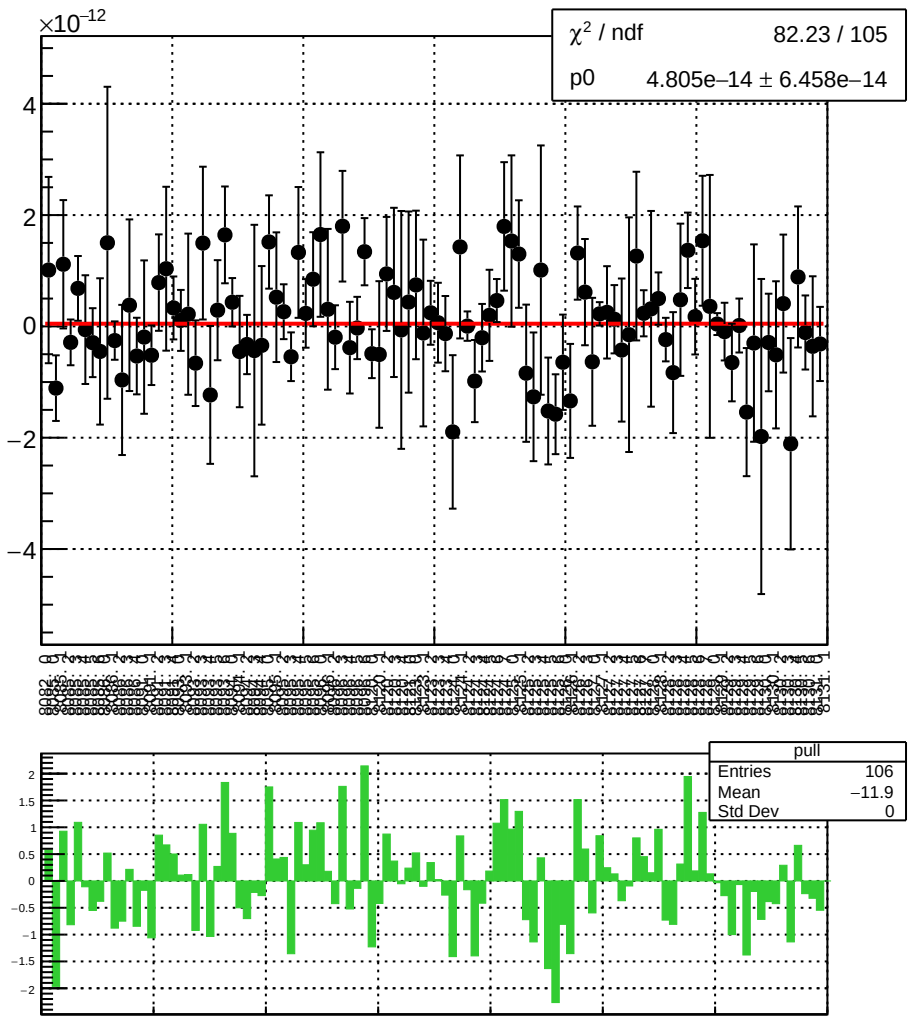

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3547 / 104
p0 0.00232 ± 1.636e−06
0.0029
0.0028
0.0027
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021
0.002

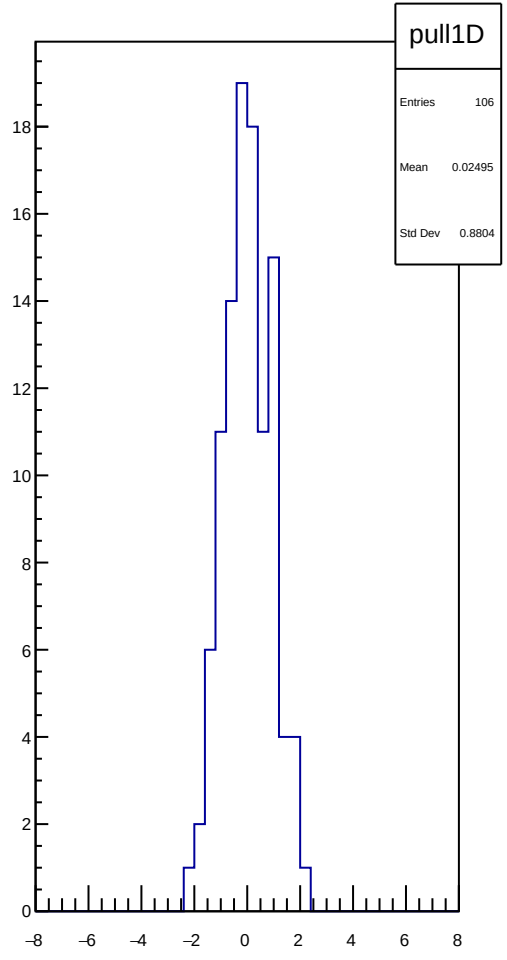

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 79.06 / 105
p0 −0.01632 ± 0.02899
pull
Entries 106
Mean 45.92
Std Dev 88.09
pull1D
Entries 106
Mean 0.01135
Std Dev 0.8636

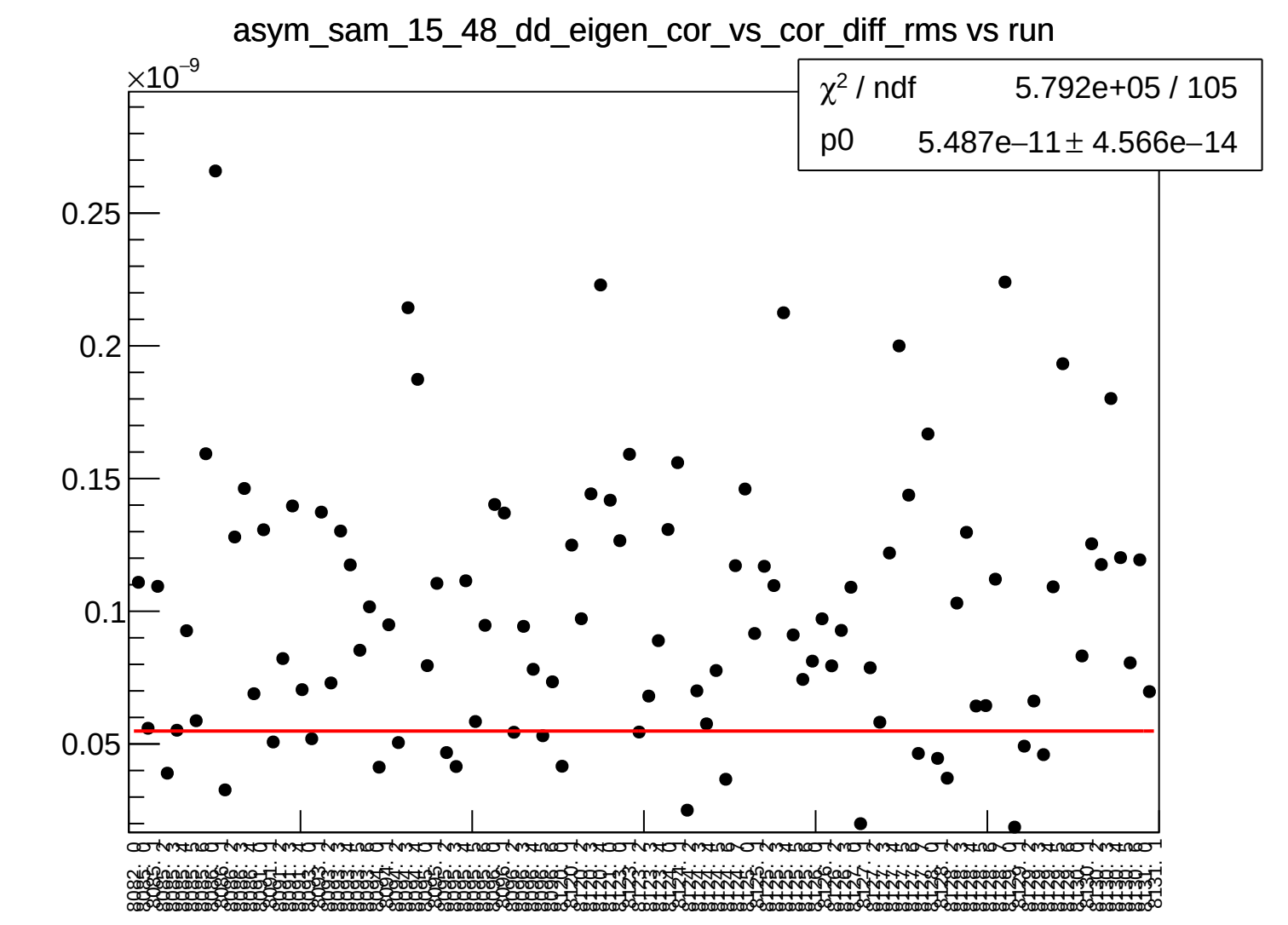

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.39e+04 / 105
p0 28.83 ± 0.0205
55
50
45
40
35
30
25
20

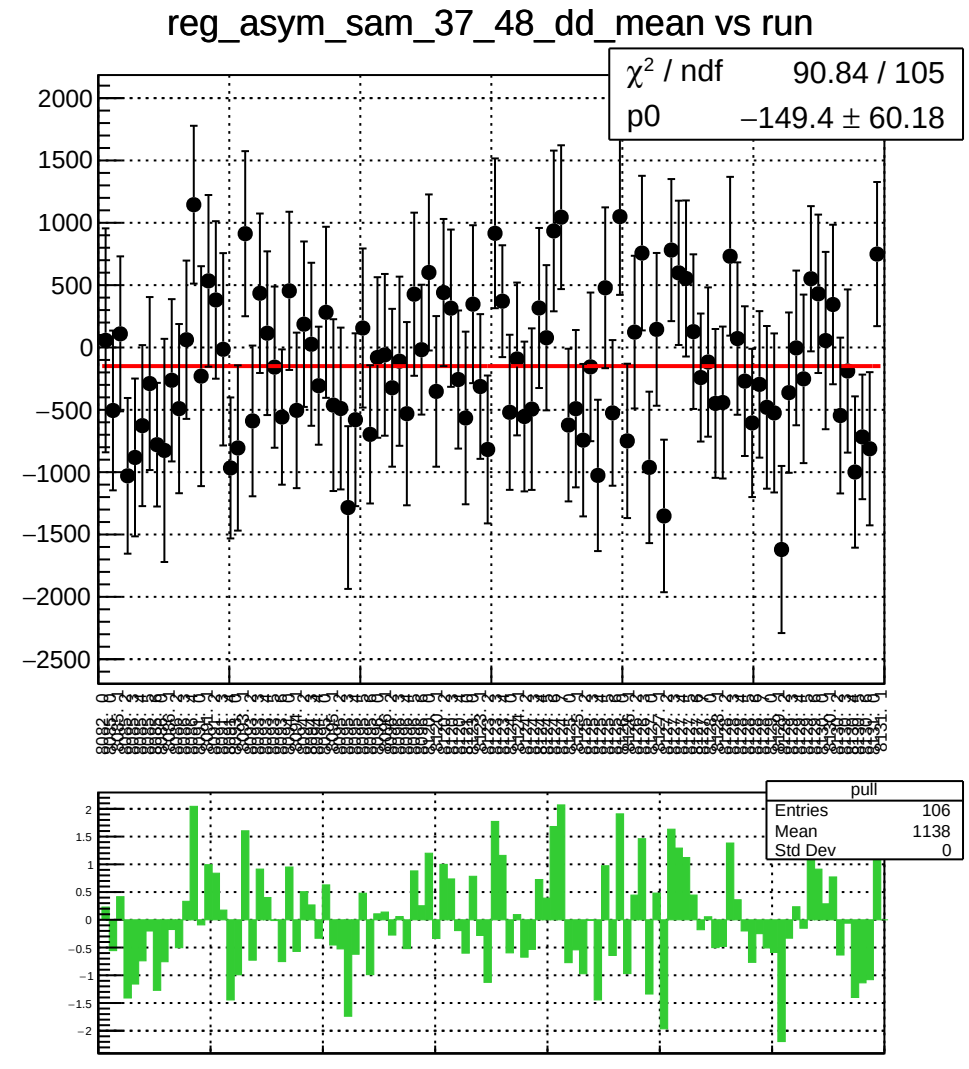

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 79.06 / 105
p0 −0.01632 ± 0.02899
pull
Entries 106
Mean 45.92
Std Dev 88.09
pull1D
Entries 106
Mean 0.01135
Std Dev 0.8636

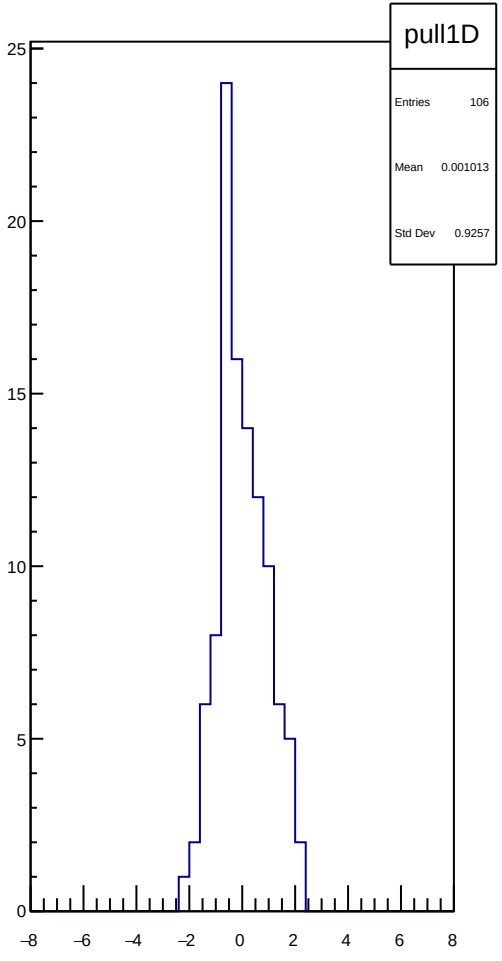

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.39e+04 / 105
p0 28.83 ± 0.0205
55
50
45
40
35
30
25
20

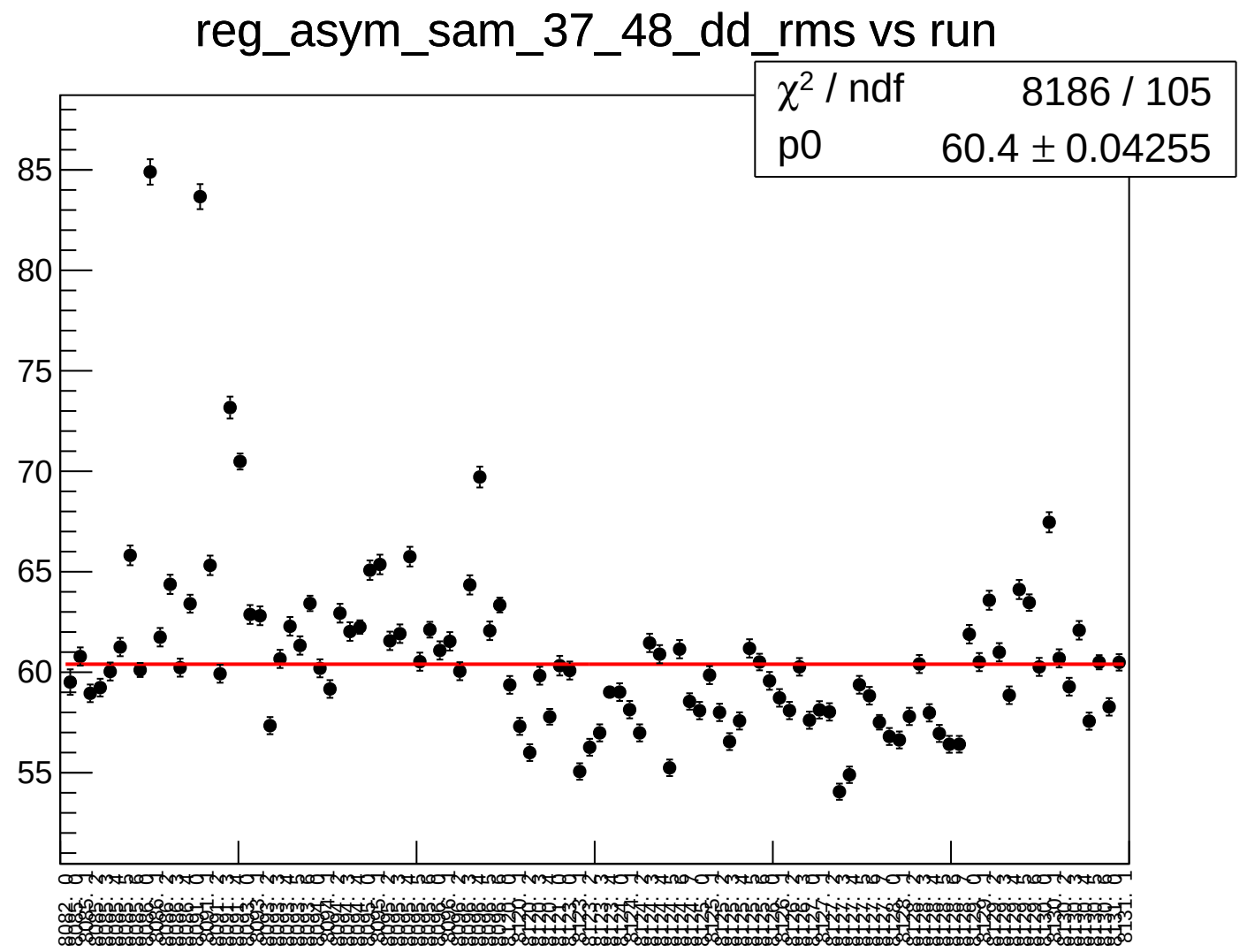

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 82.23 / 105
p0 4.805e−14 ± 6.458e−14
pull
Entries 106
Mean −11.9
Std Dev 0

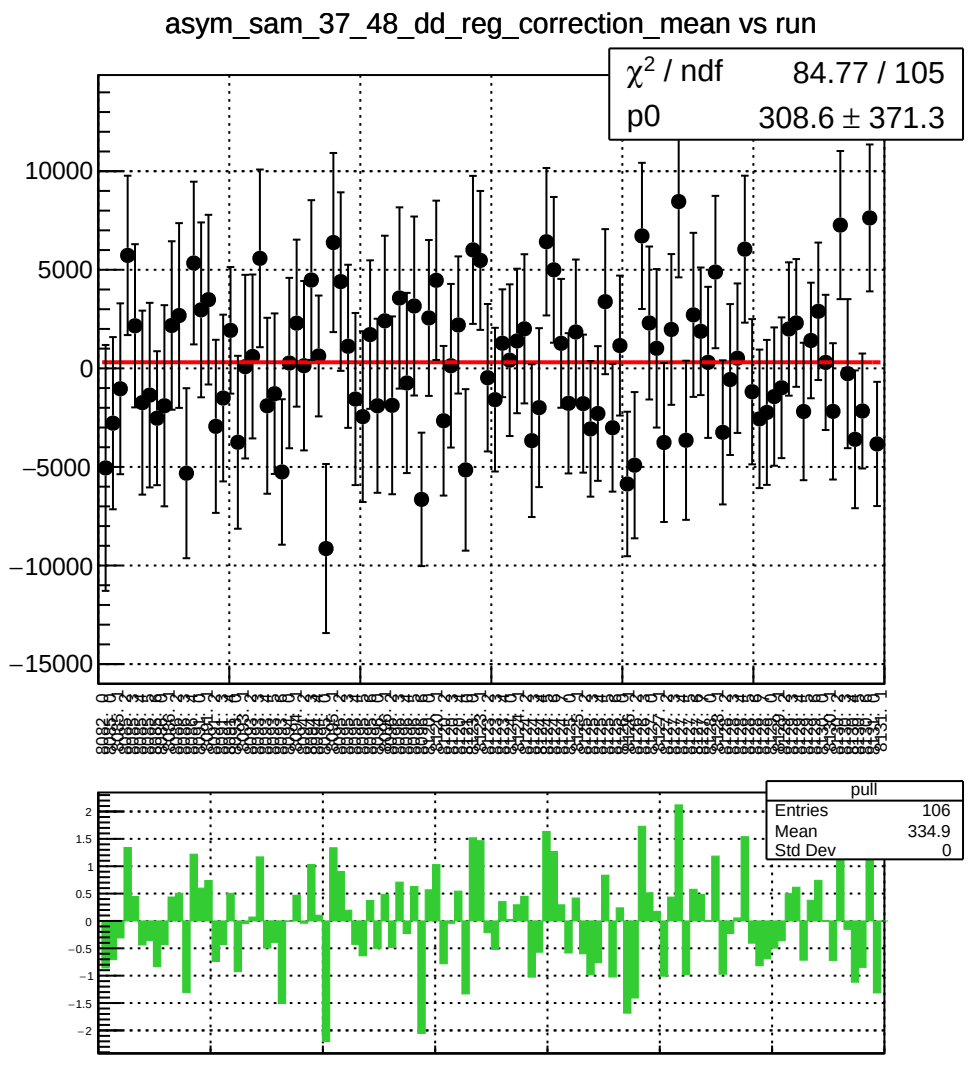

pull1D
Entries 106
Mean 0.02495
Std Dev 0.8804

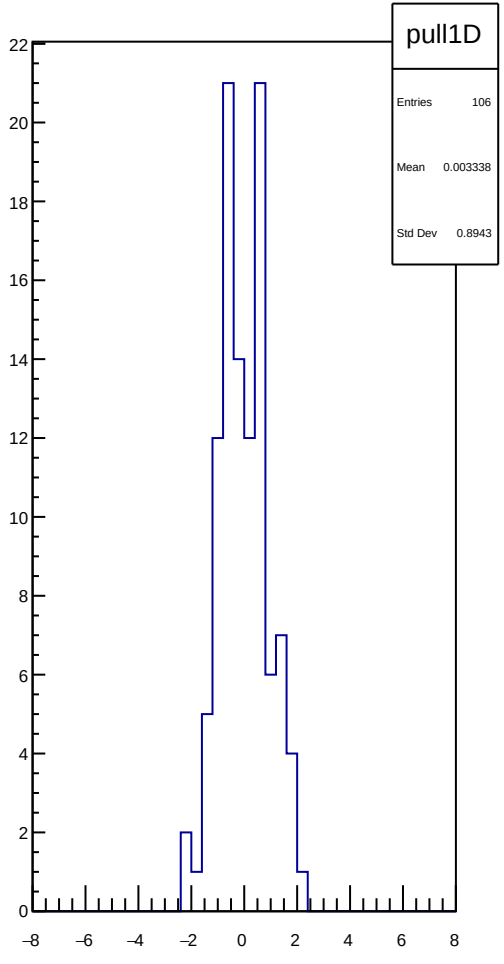

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.792e+05 / 105
p0 5.487e−11 ± 4.566e−14
0.25
0.2
0.15
0.1
0.05

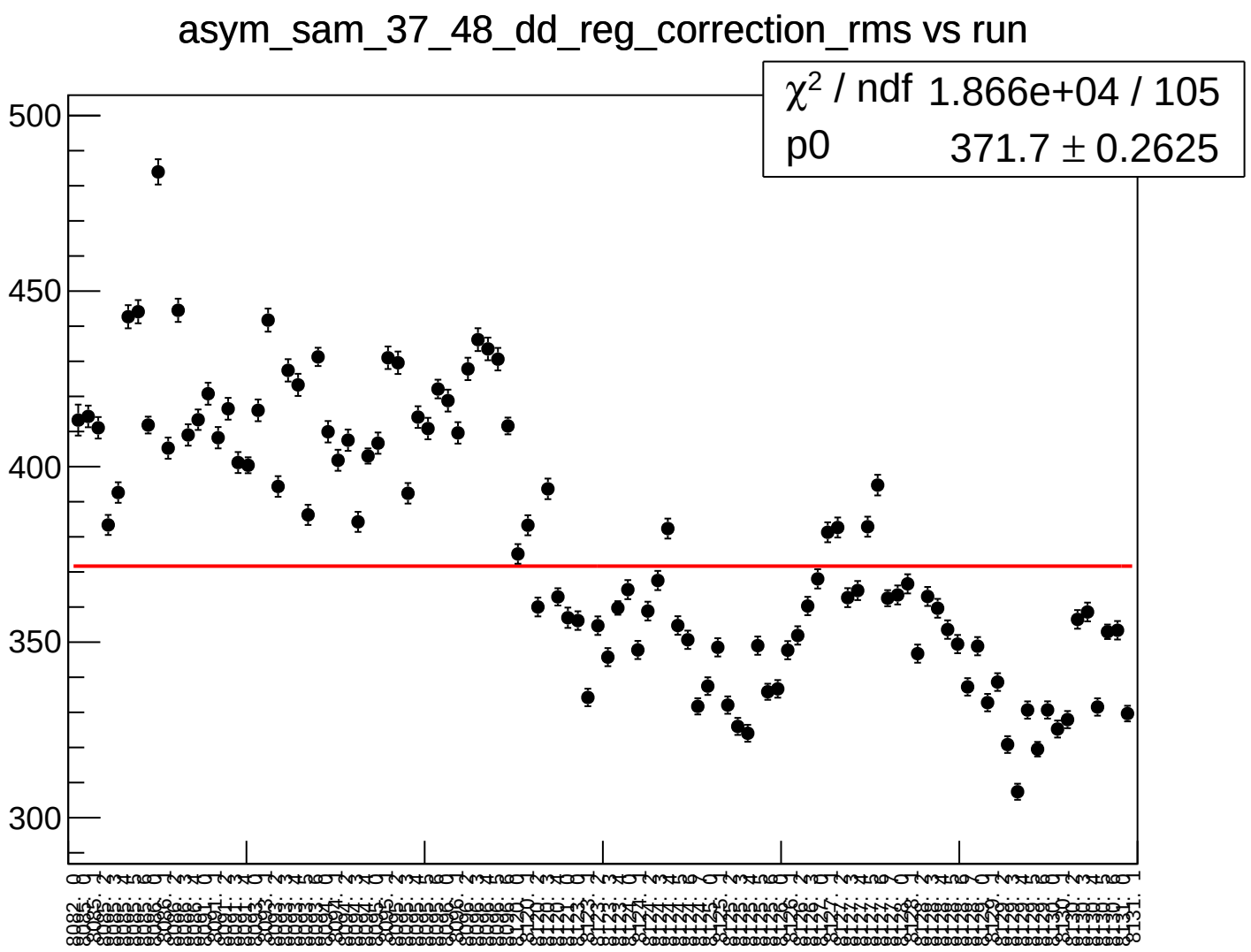

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 90.84 / 105
p0 −149.4 ± 60.18
pull
Entries 106
Mean 1138
Std Dev 0

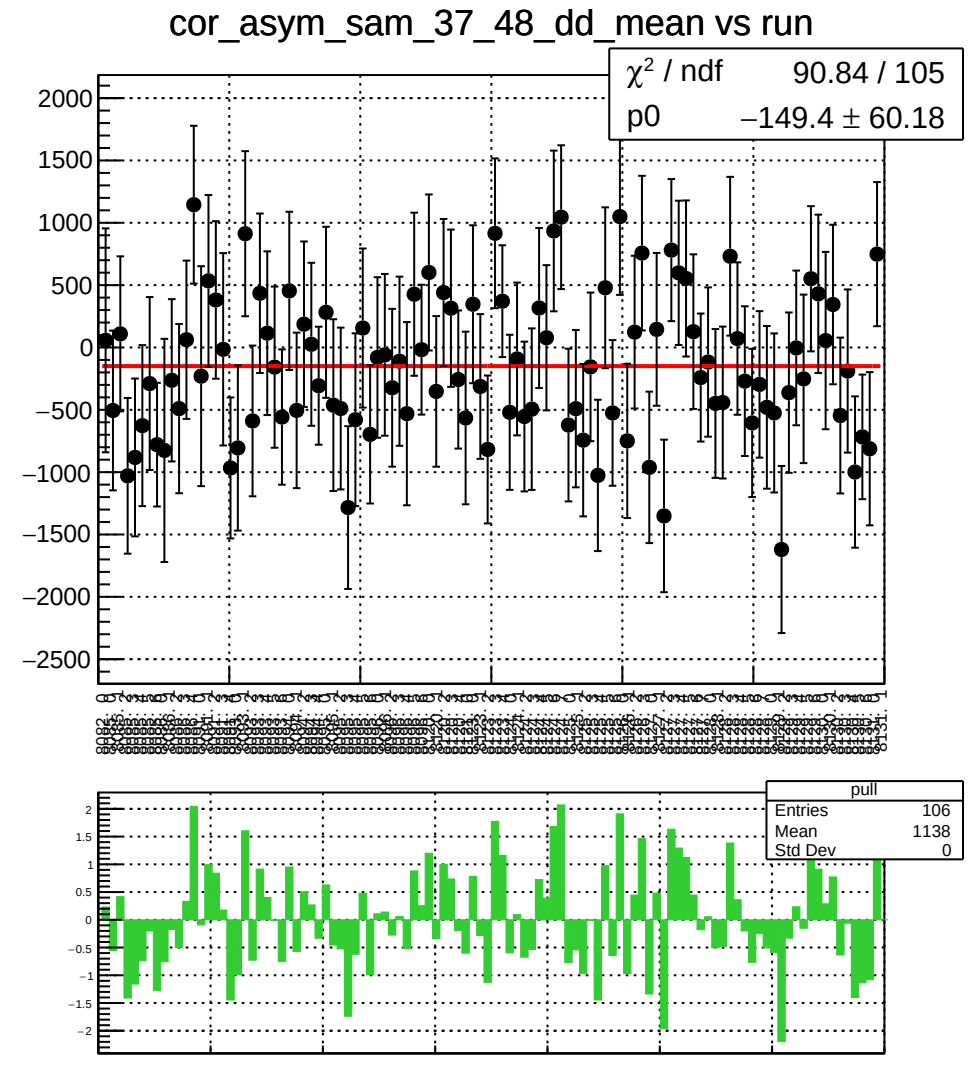

pull1D
Entries 106
Mean 0.001013
Std Dev 0.9257

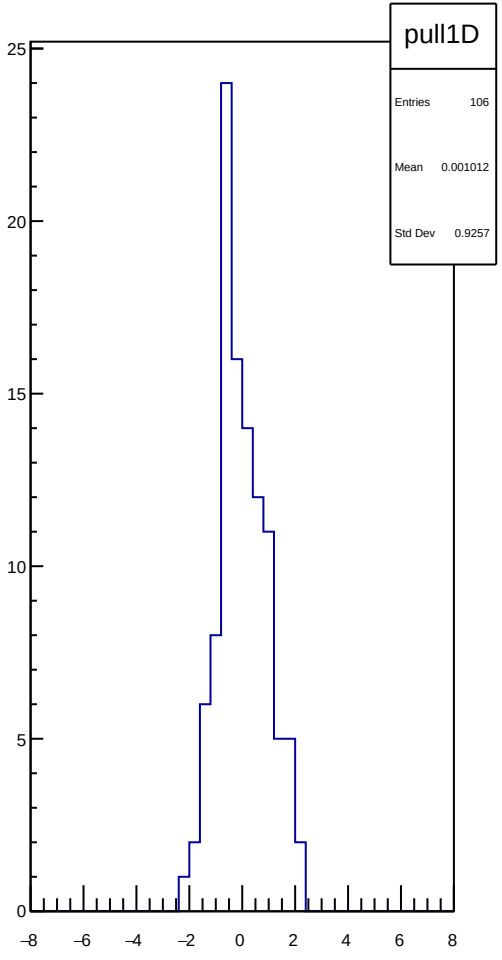

reg_asym_sam_37_48_dd_rms vs run
χ² / ndf 8186 / 105
p0 60.4 ± 0.04255
85
80
75
70
65
60
55

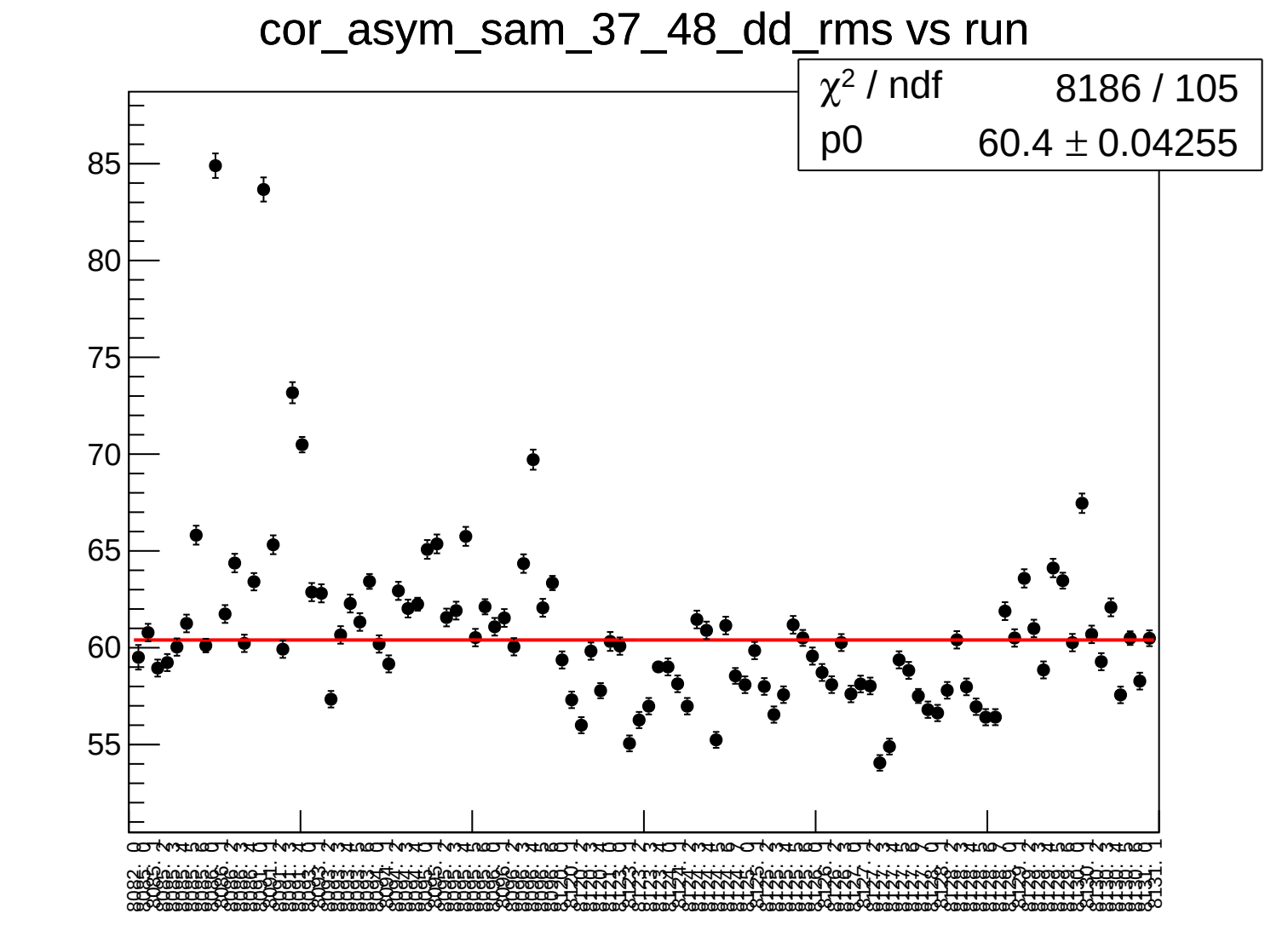

asym_sam_37_48_dd_reg_correction_mean vs run
χ² / ndf 84.77 / 105
p0 308.6 ± 371.3
10000
5000
0
−5000
−10000
−15000
pull
Entries 106
Mean 334.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

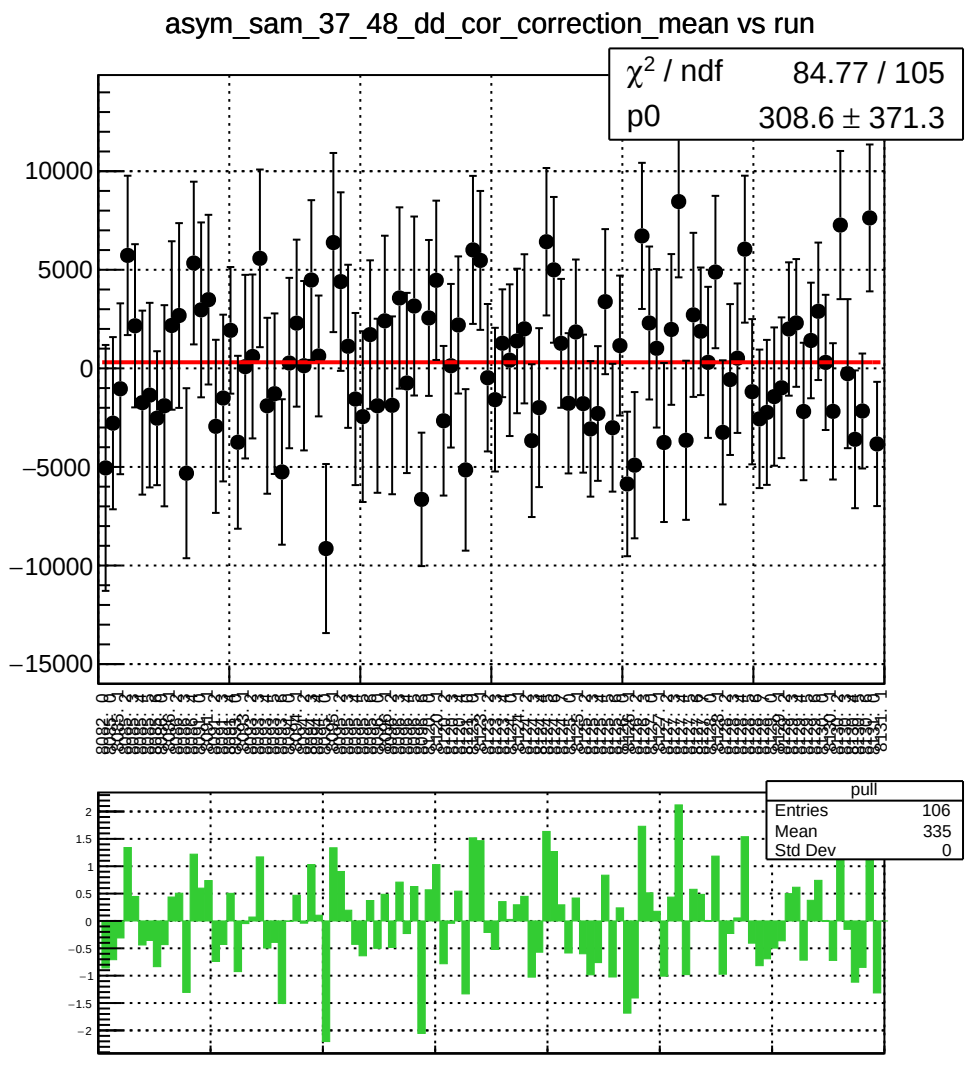

pull1D
Entries 106
Mean 0.003338
Std Dev 0.8943
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

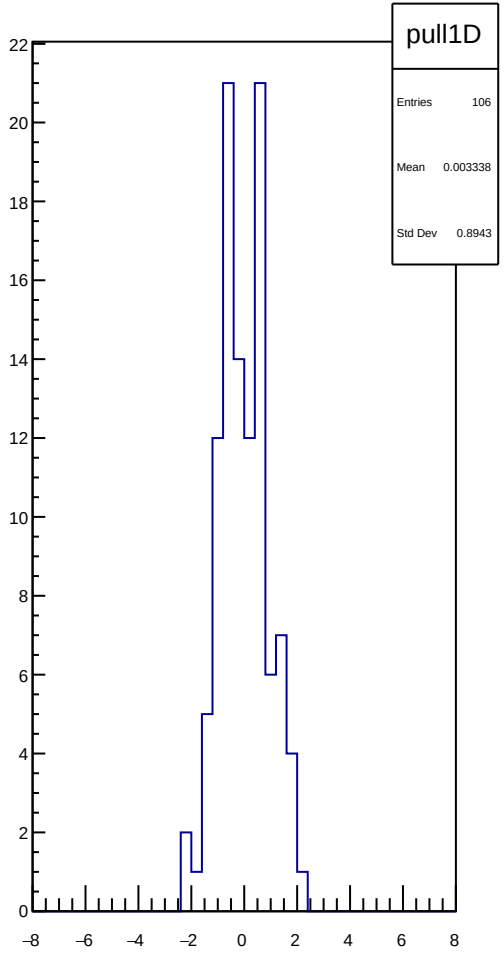

asym_sam_37_48_dd_reg_correction_rms vs run
χ² / ndf 1.866e+04 / 105
p0 371.7 ± 0.2625
500
450
400
350
300

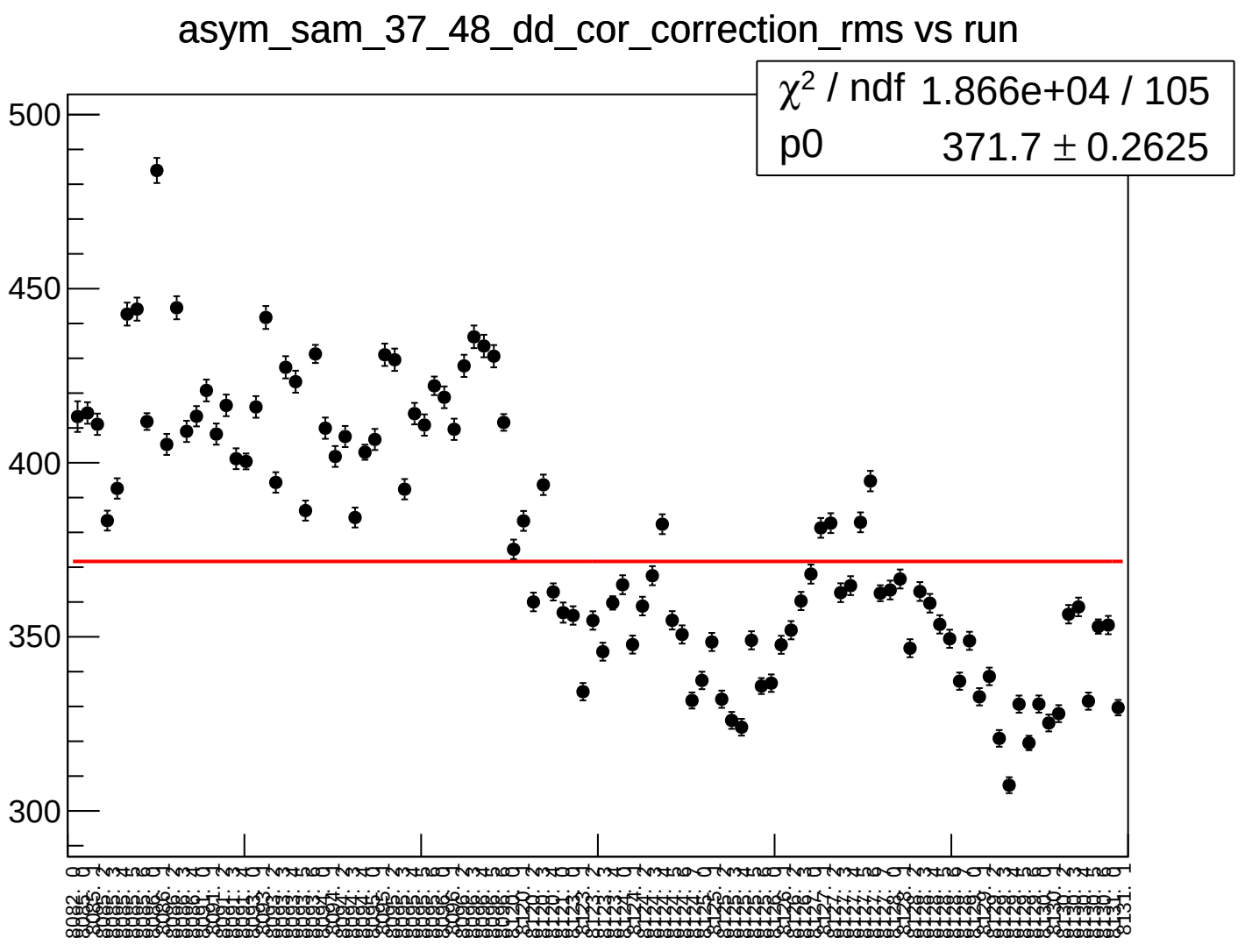

cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 90.84 / 105
p0 −149.4 ± 60.18
pull
Entries 106
Mean 1138
Std Dev 0

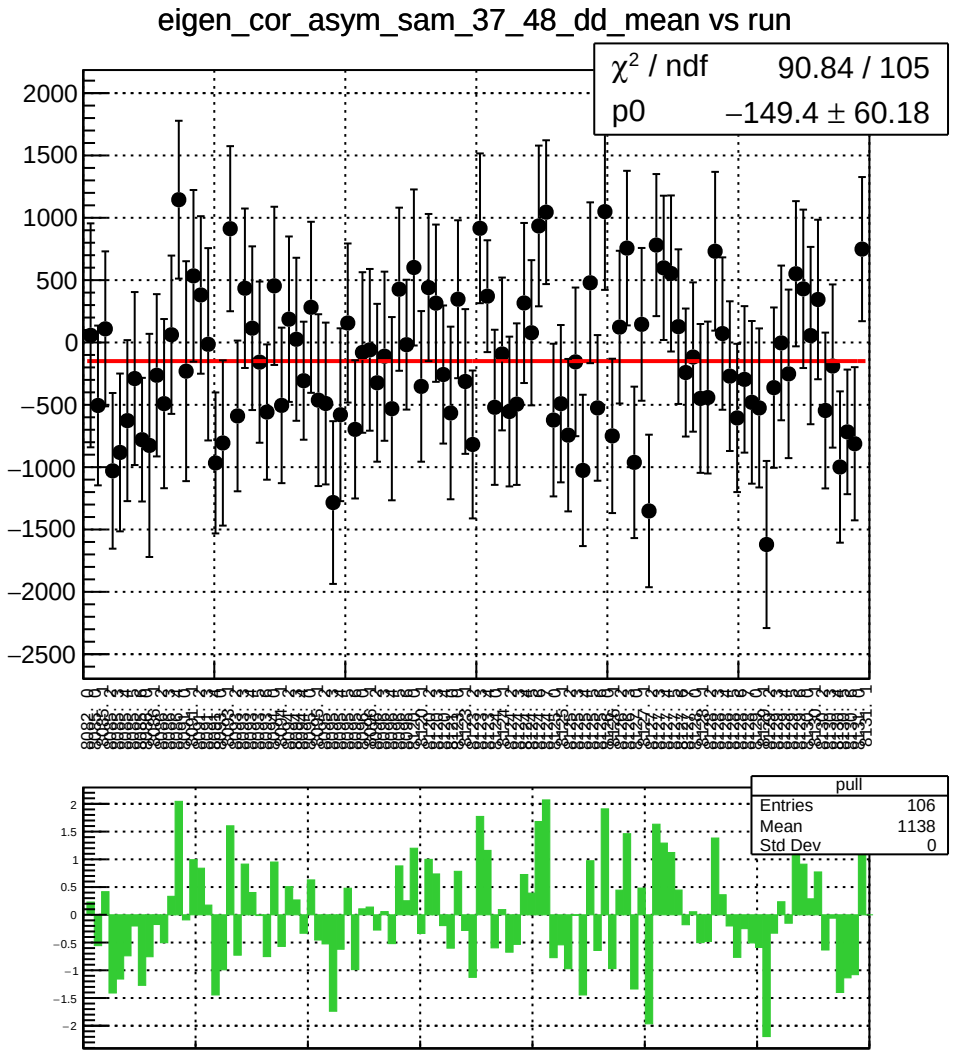

pull1D
Entries 106
Mean 0.001012
Std Dev 0.9257

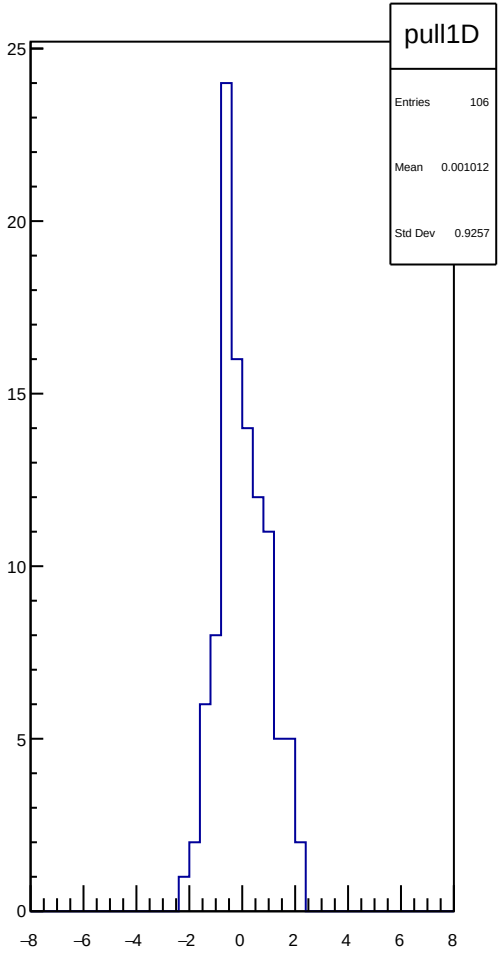

cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 8186 / 105
p0 60.4 ± 0.04255
85
80
75
70
65
60
55

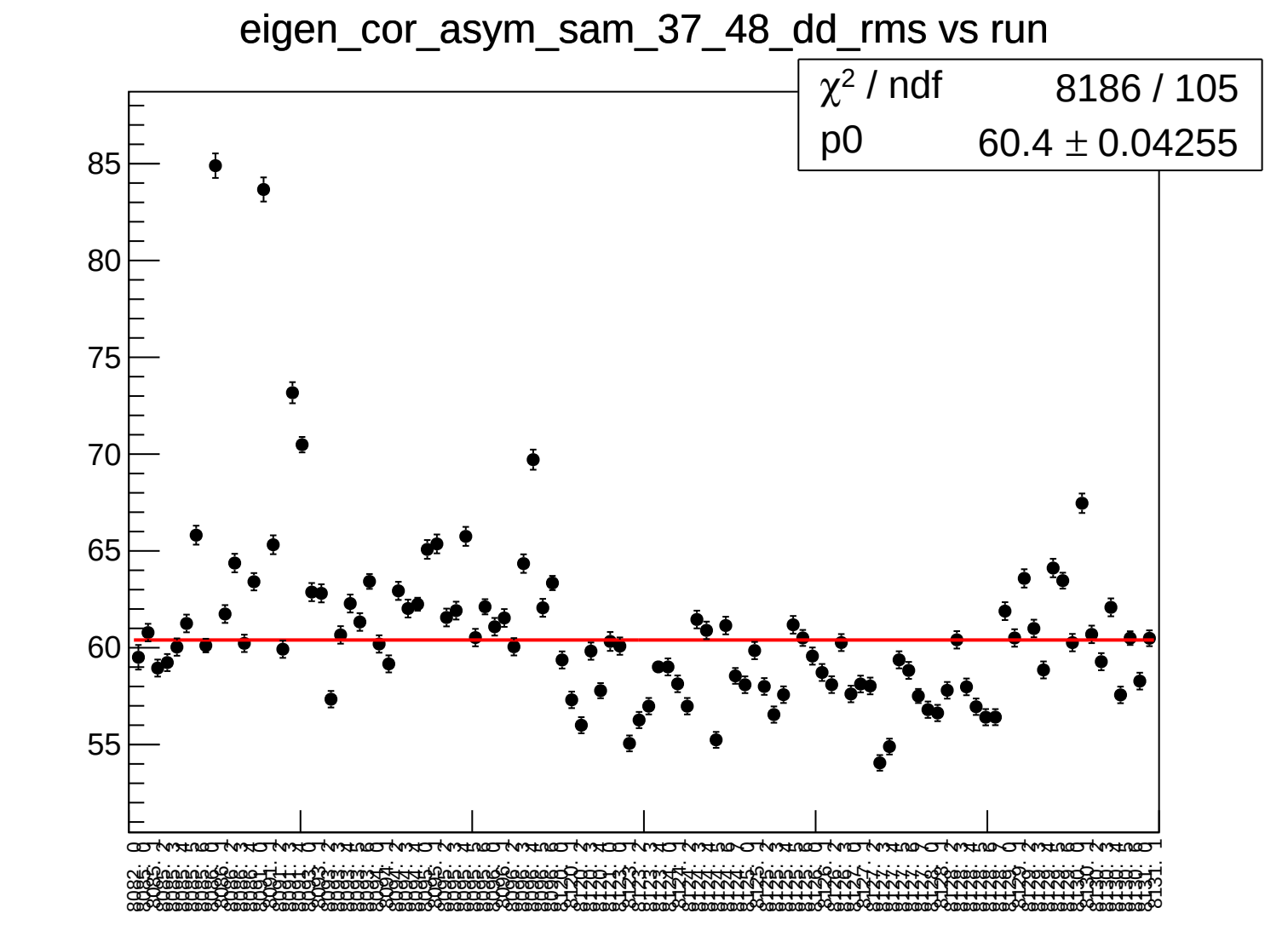

asym_sam_37_48_dd_cor_correction_mean vs run
χ² / ndf 84.77 / 105
p0 308.6 ± 371.3
10000
5000
0
−5000
−10000
−15000
pull
Entries 106
Mean 335
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

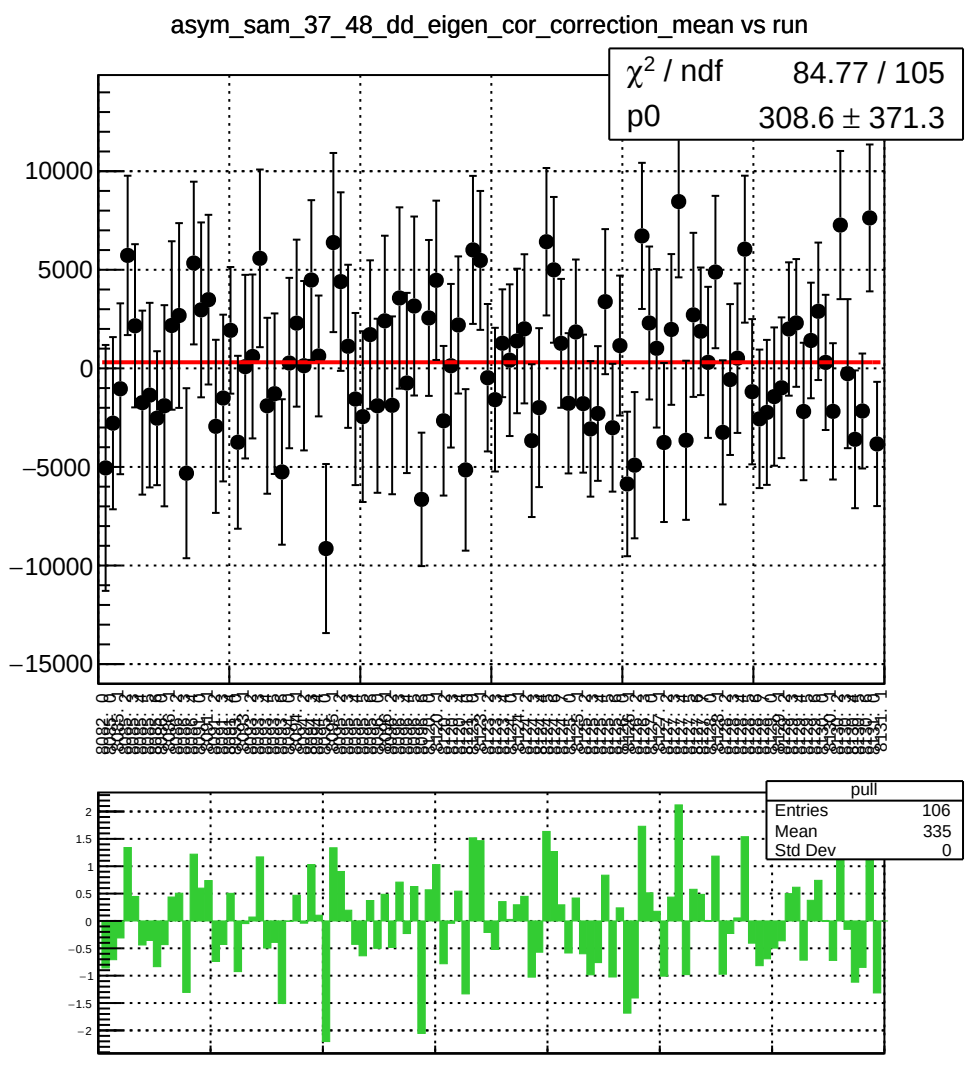

pull1D
Entries 106
Mean 0.003338
Std Dev 0.8943
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

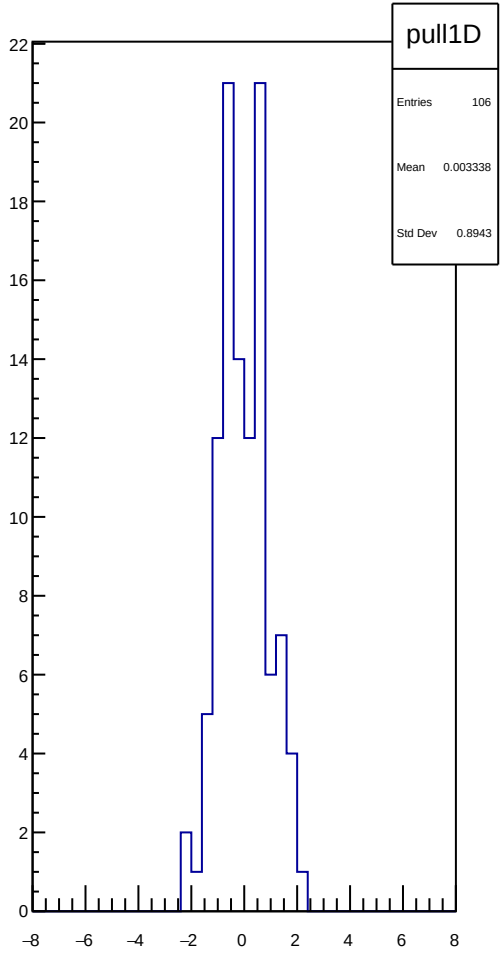

asym_sam_37_48_dd_cor_correction_rms vs run
χ² / ndf 1.866e+04 / 105
p0 371.7 ± 0.2625
500
450
400
350
300

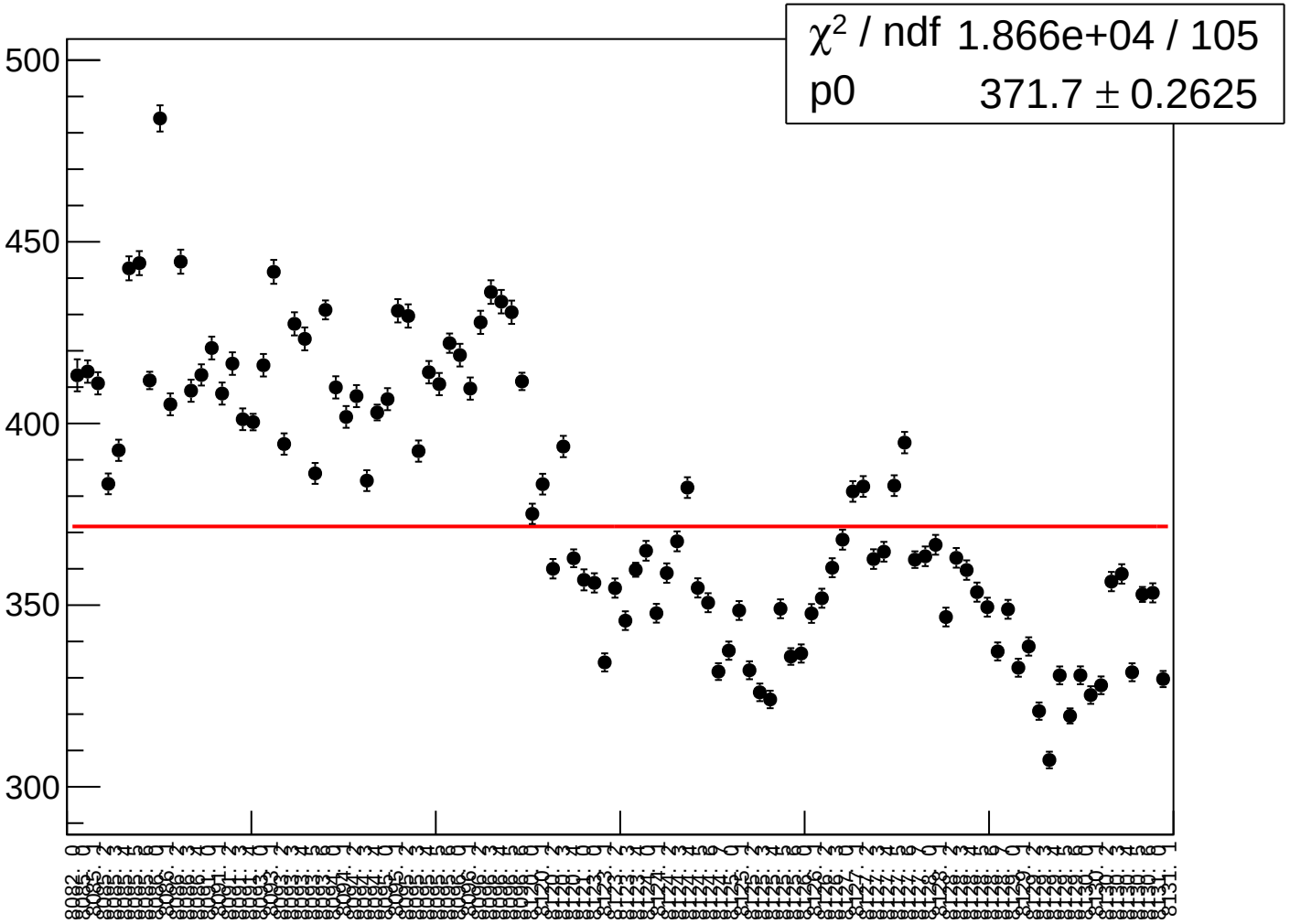

eigen_cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 90.84 / 105
p0 −149.4 ± 60.18
pull
Entries 106
Mean 1138
Std Dev 0

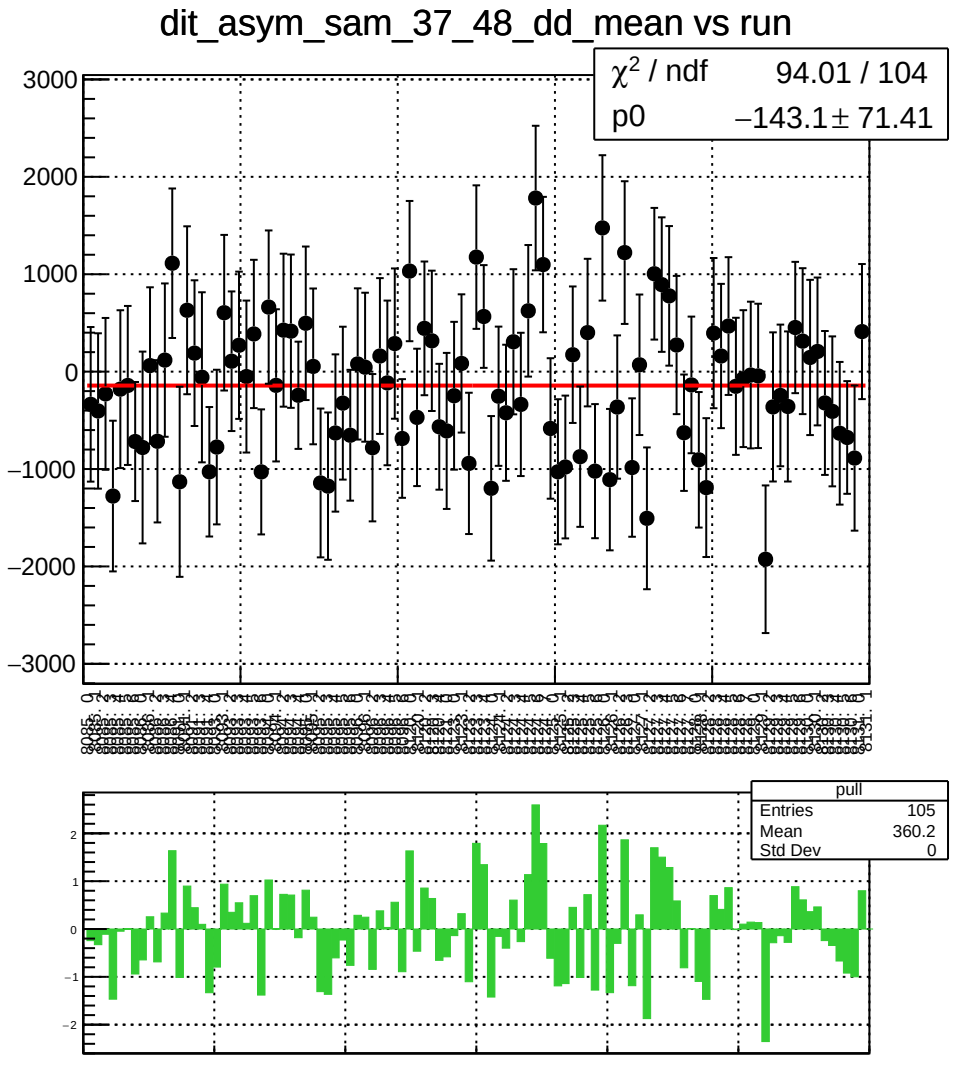

pull1D
Entries 106
Mean 0.001012
Std Dev 0.9257

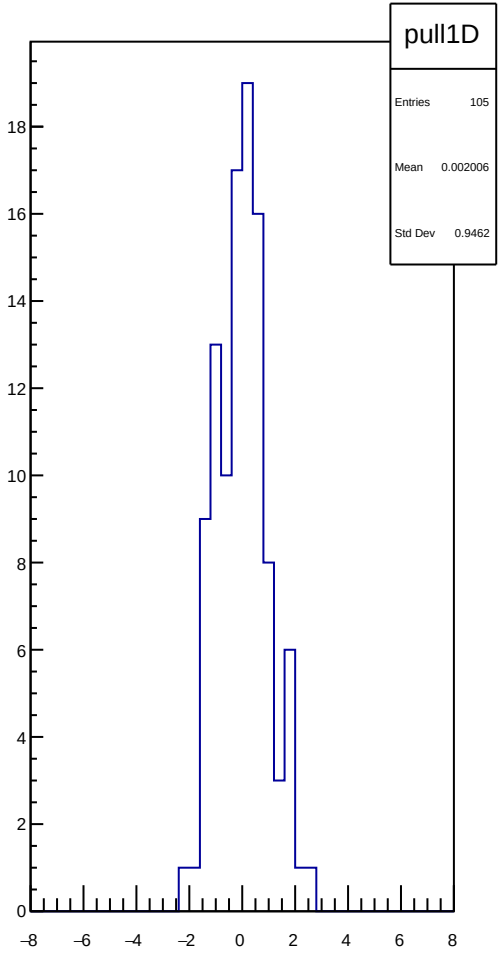

eigen_cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 8186 / 105
p0 60.4 ± 0.04255
85
80
75
70
65
60
55

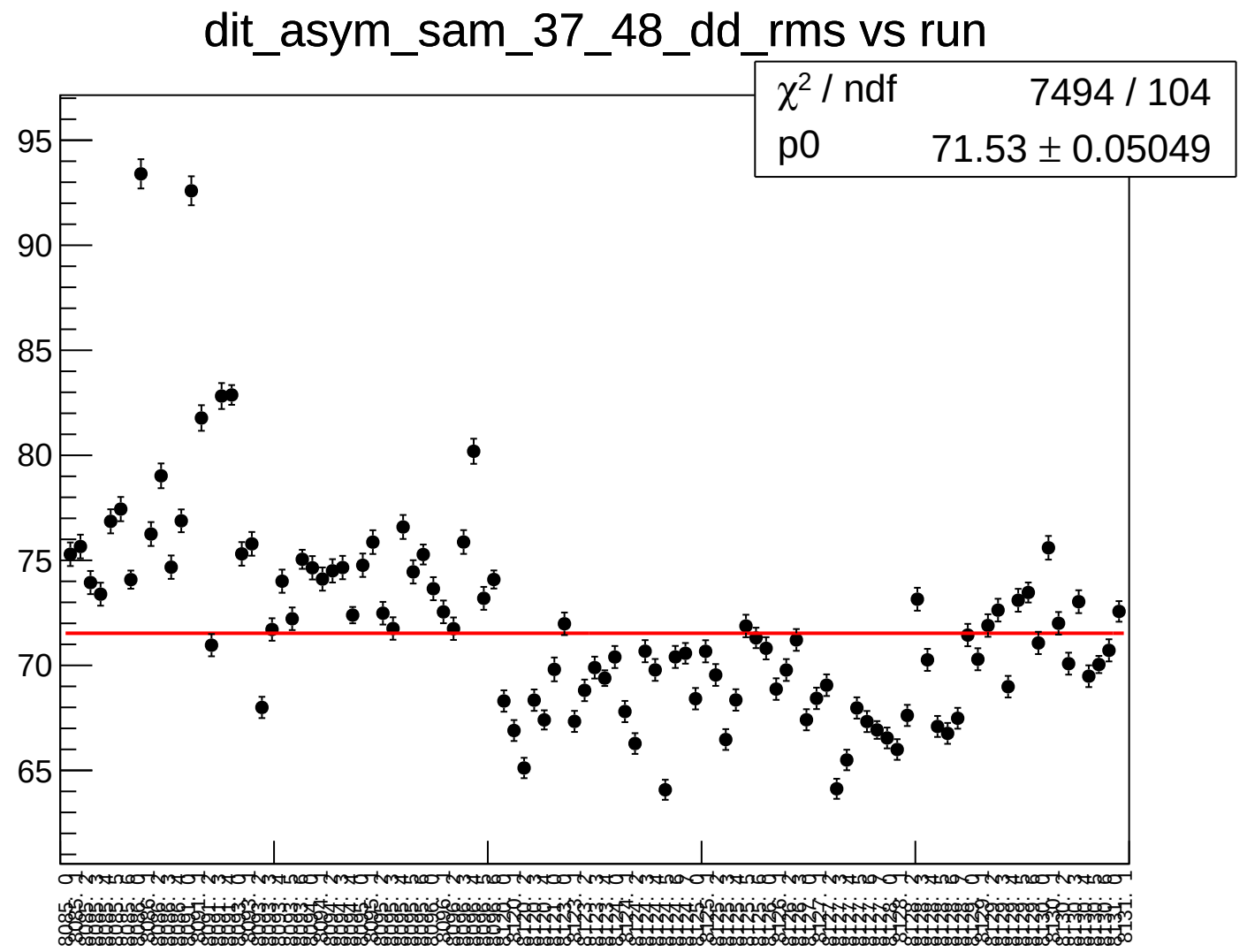

asym_sam_37_48_dd_eigen_cor_correction_mean vs run
$\chi^2$ / ndf 84.77 / 105
p0 308.6 ± 371.3
10000
5000
0
−5000
−10000
−15000
pull
Entries 106
Mean 335
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

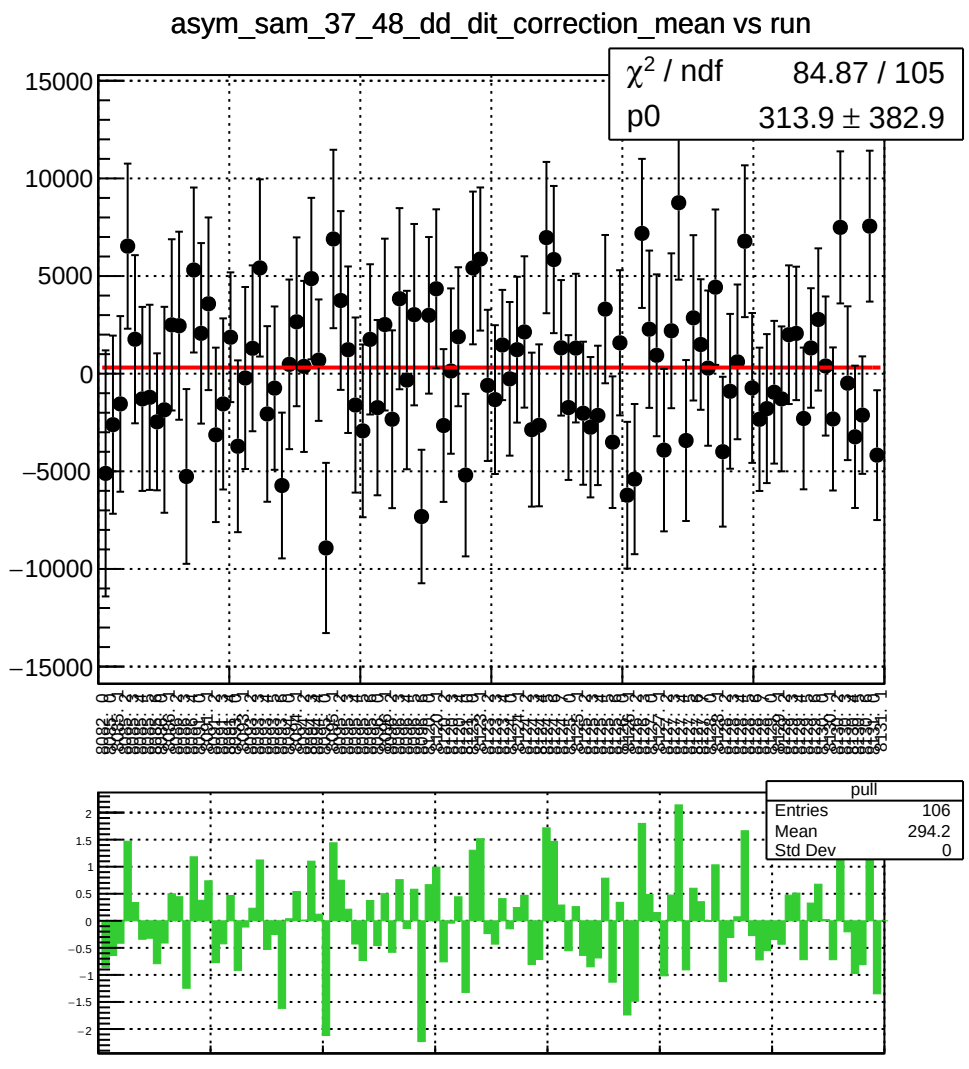

pull1D
Entries 106
Mean 0.003338
Std Dev 0.8943
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

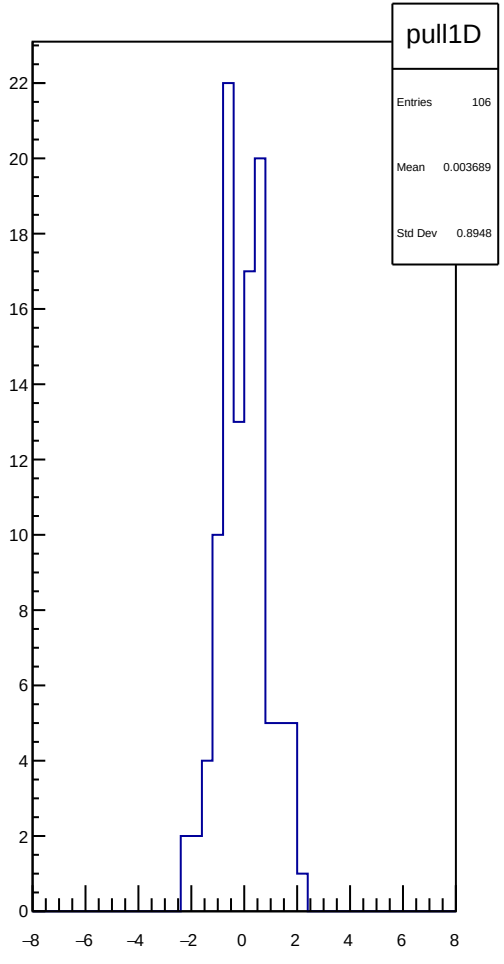

asym_sam_37_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.866e+04 / 105
p0 371.7 ± 0.2625
500
450
400
350
300

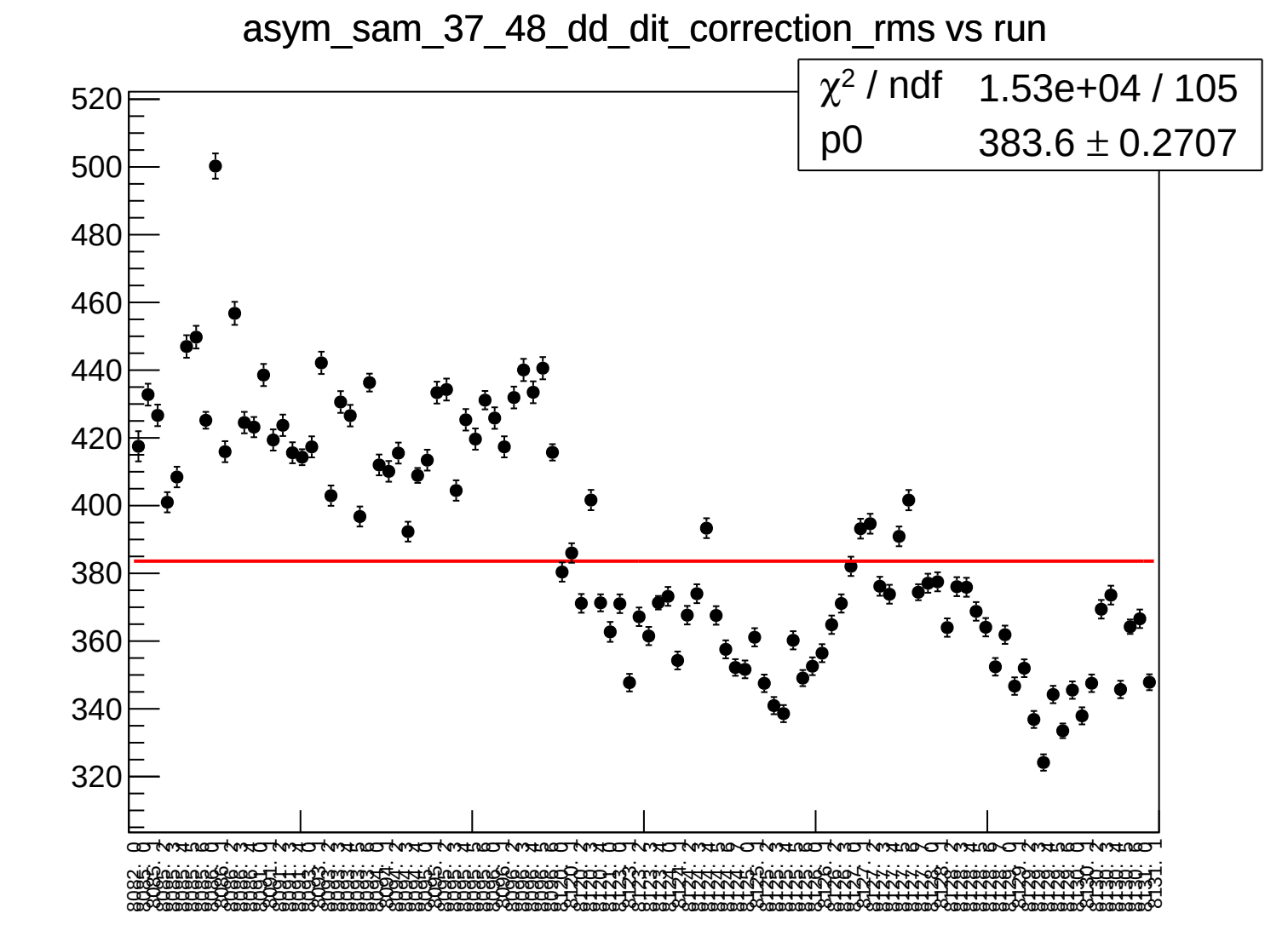

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 94.01 / 104
p0 −143.1 ± 71.41
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 105
Mean 360.2
Std Dev 0
2
1
0
−1
−2

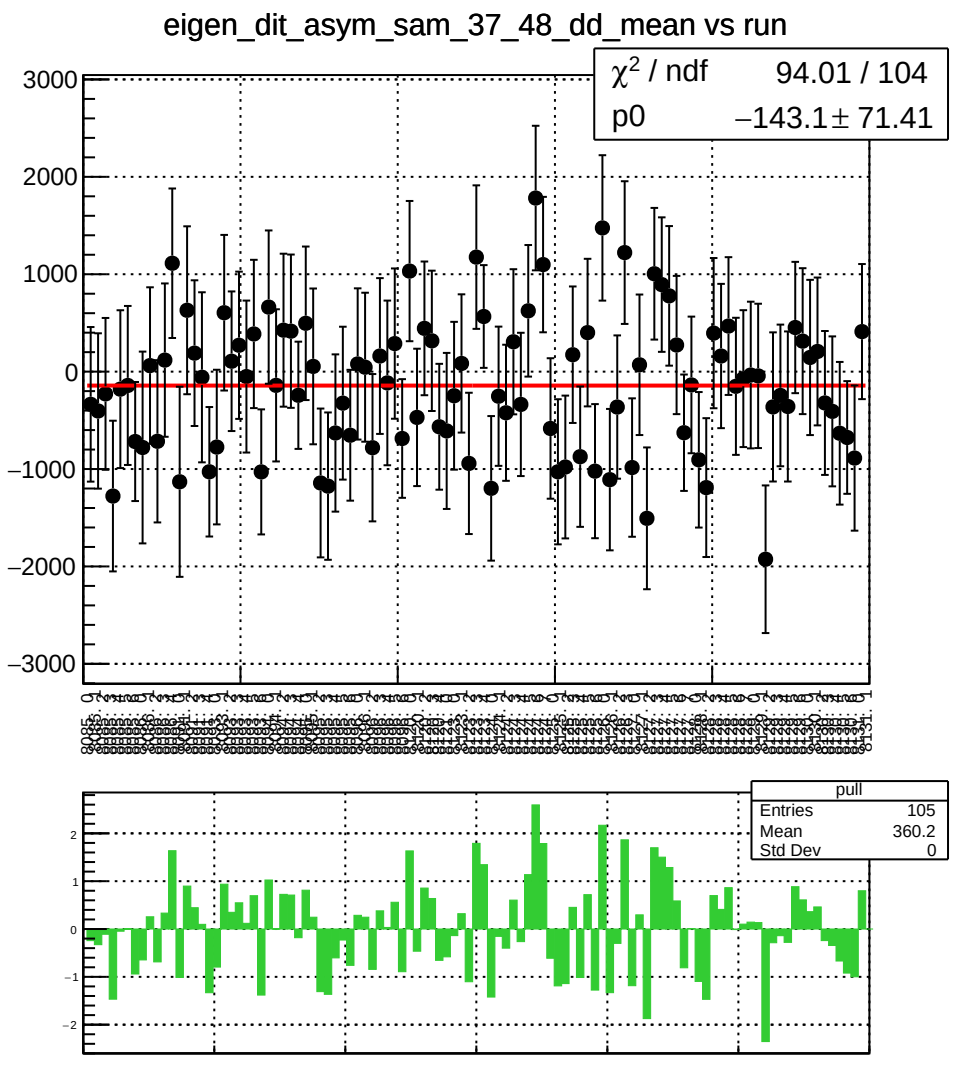

pull1D
Entries 105
Mean 0.002006
Std Dev 0.9462
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

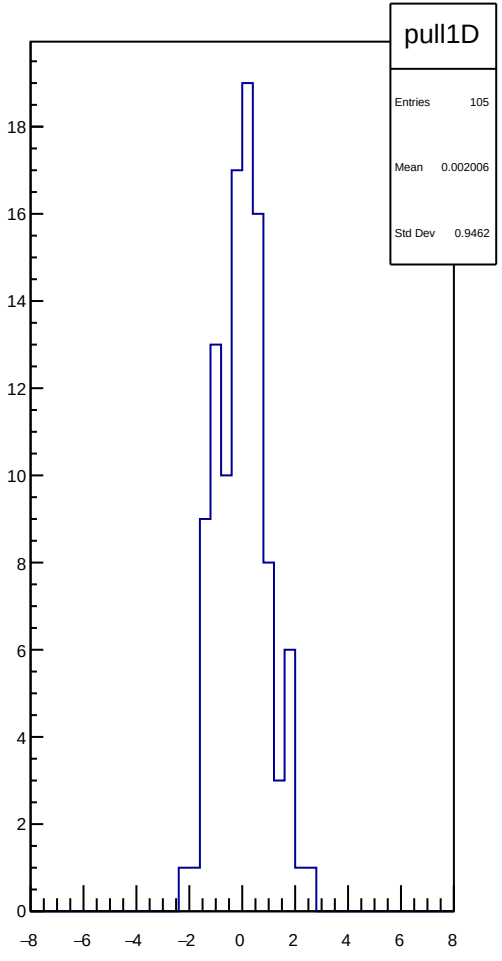

dit_asym_sam_37_48_dd_rms vs run
$\chi^2$ / ndf 7494 / 104
p0 71.53 ± 0.05049
95
90
85
80
75
70
65

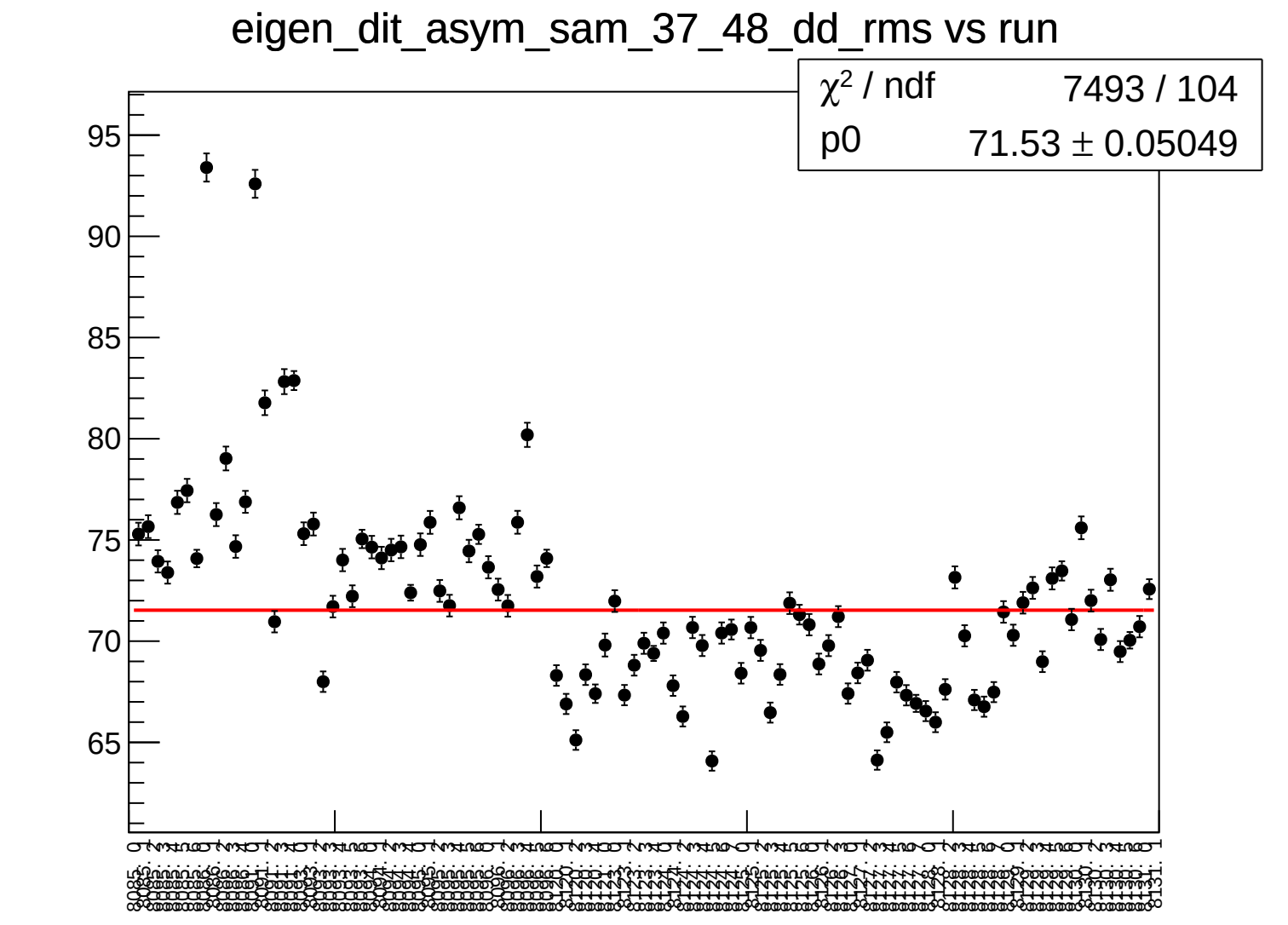

asym_sam_37_48_dd_dit_correction_mean vs run
χ² / ndf 84.87 / 105
p0 313.9 ± 382.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 106
Mean 294.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

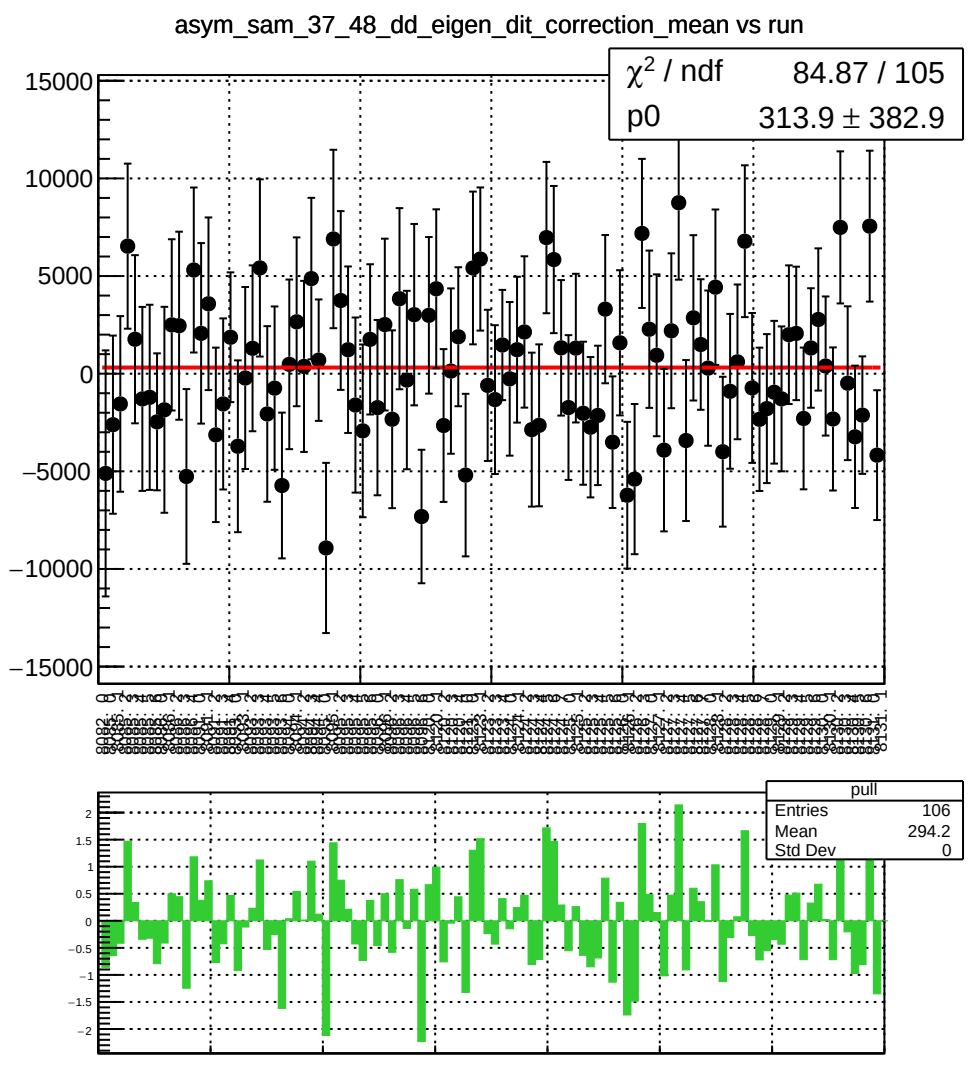

pull1D
Entries 106
Mean 0.003689
Std Dev 0.8948
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

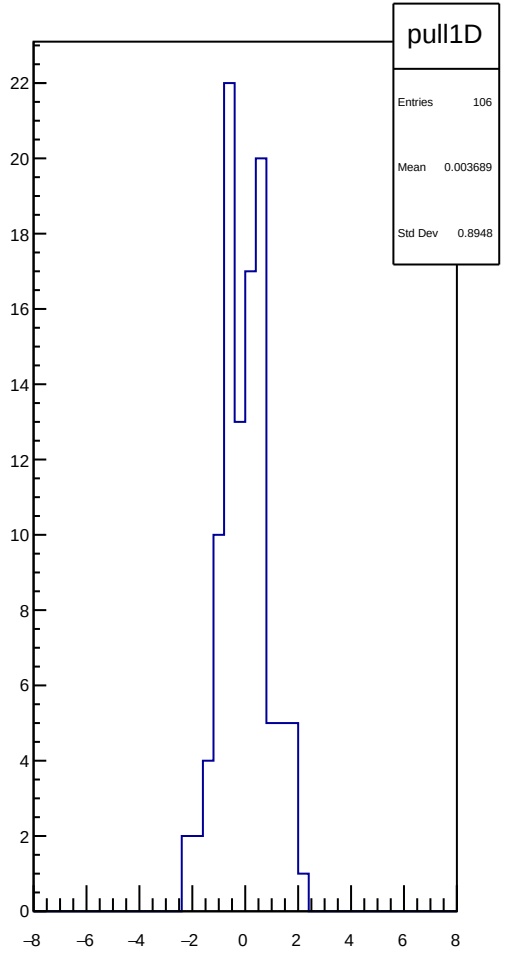

asym_sam_37_48_dd_dit_correction_rms vs run
χ² / ndf 1.53e+04 / 105
p0 383.6 ± 0.2707
520
500
480
460
440
420
400
380
360
340
320

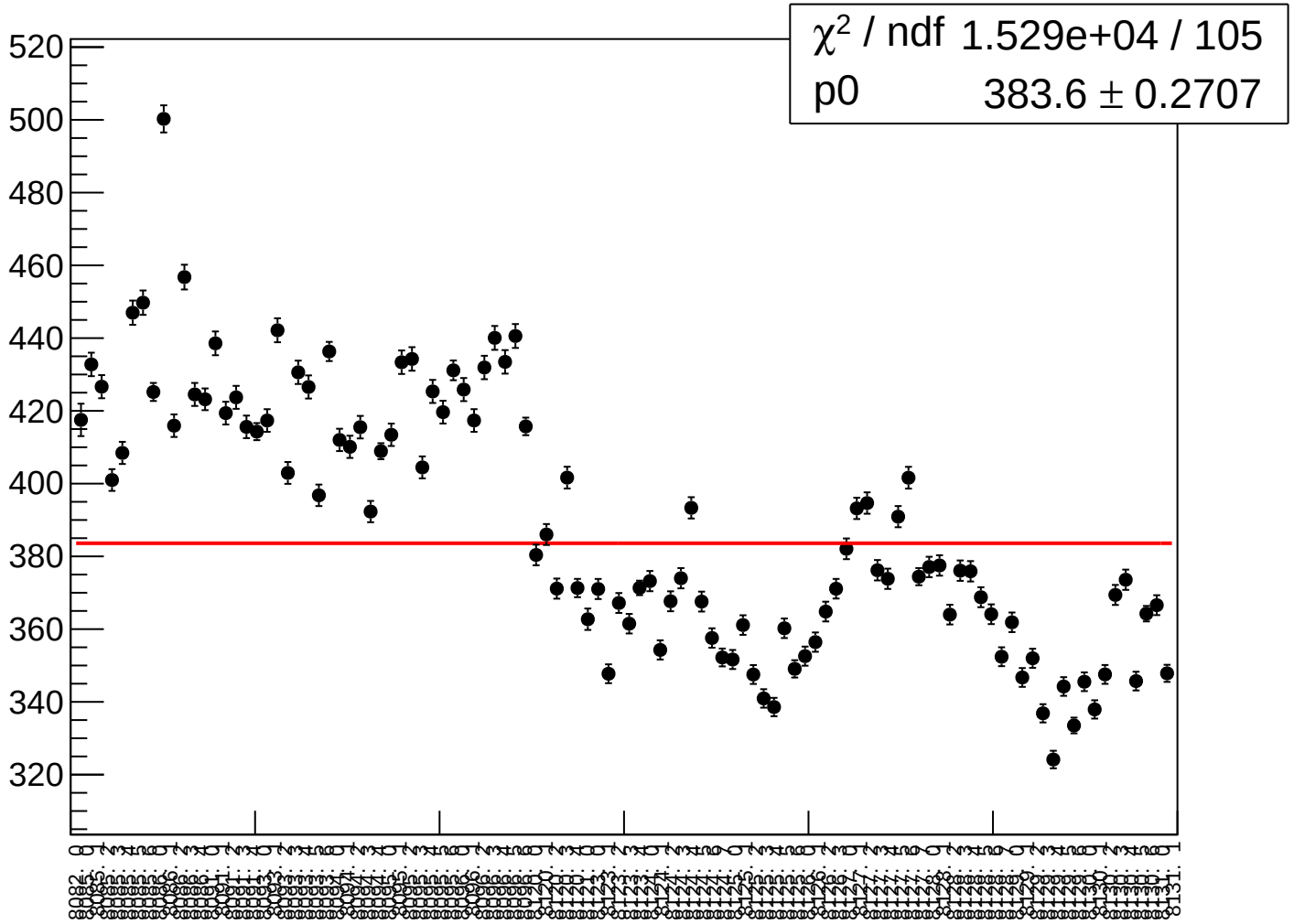

eigen_dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 94.01 / 104
p0 −143.1± 71.41
pull
Entries 105
Mean 360.2
Std Dev 0

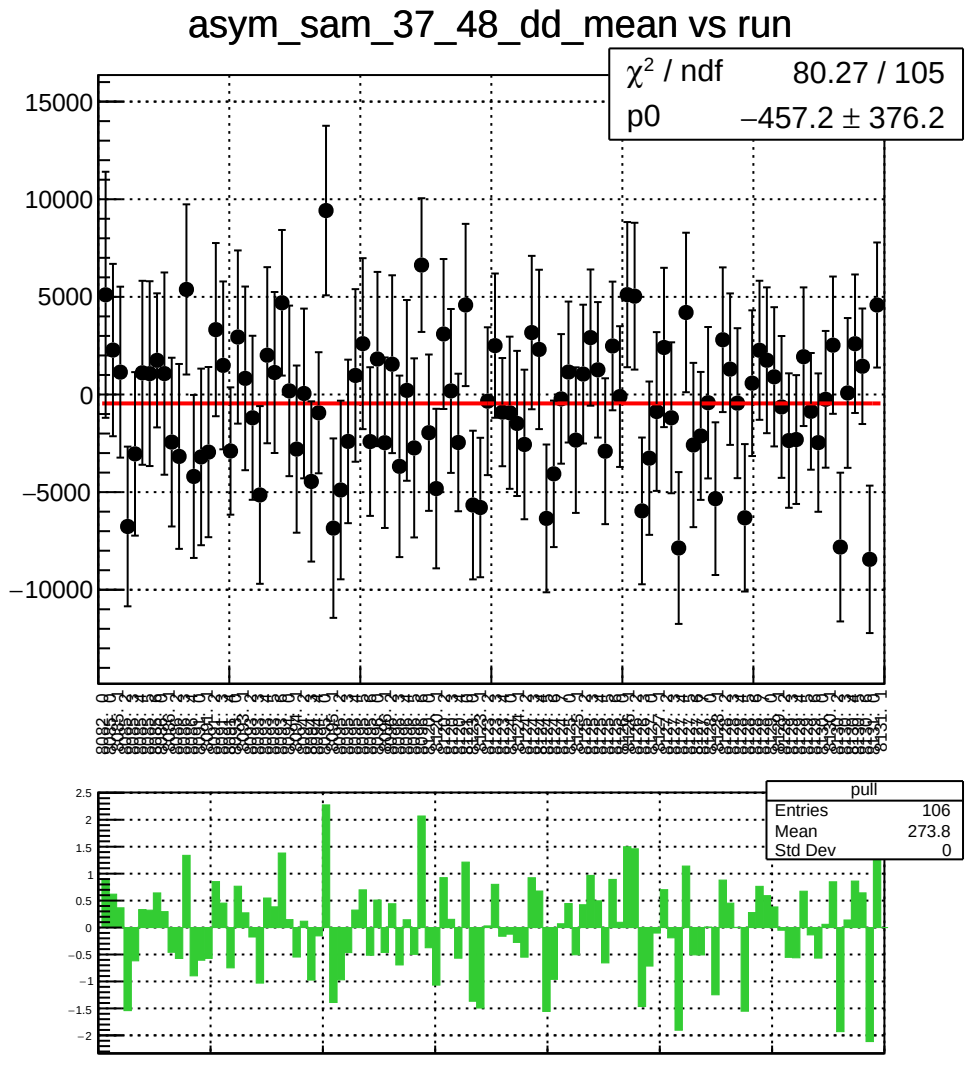

pull1D
Entries 105
Mean 0.002006
Std Dev 0.9462

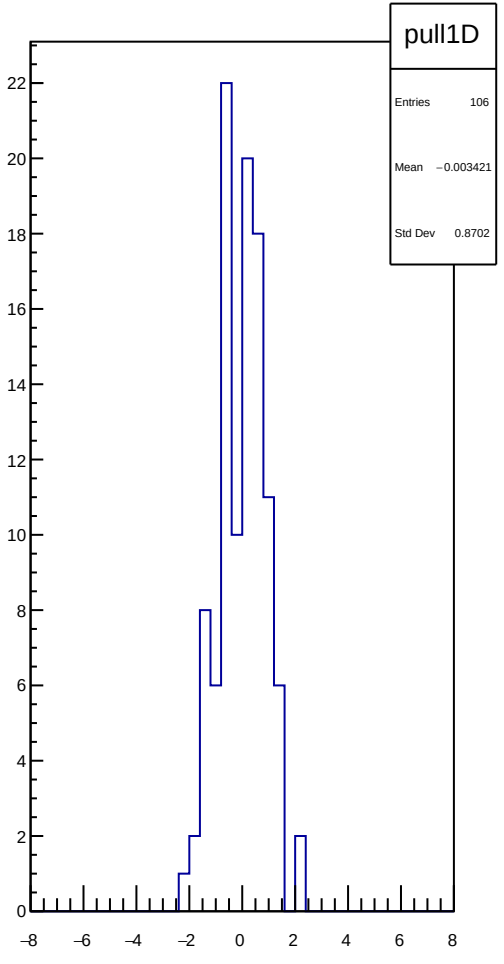

eigen_dit_asym_sam_37_48_dd_rms vs run
$\chi^2$ / ndf 7493 / 104
p0 71.53 ± 0.05049
95
90
85
80
75
70
65

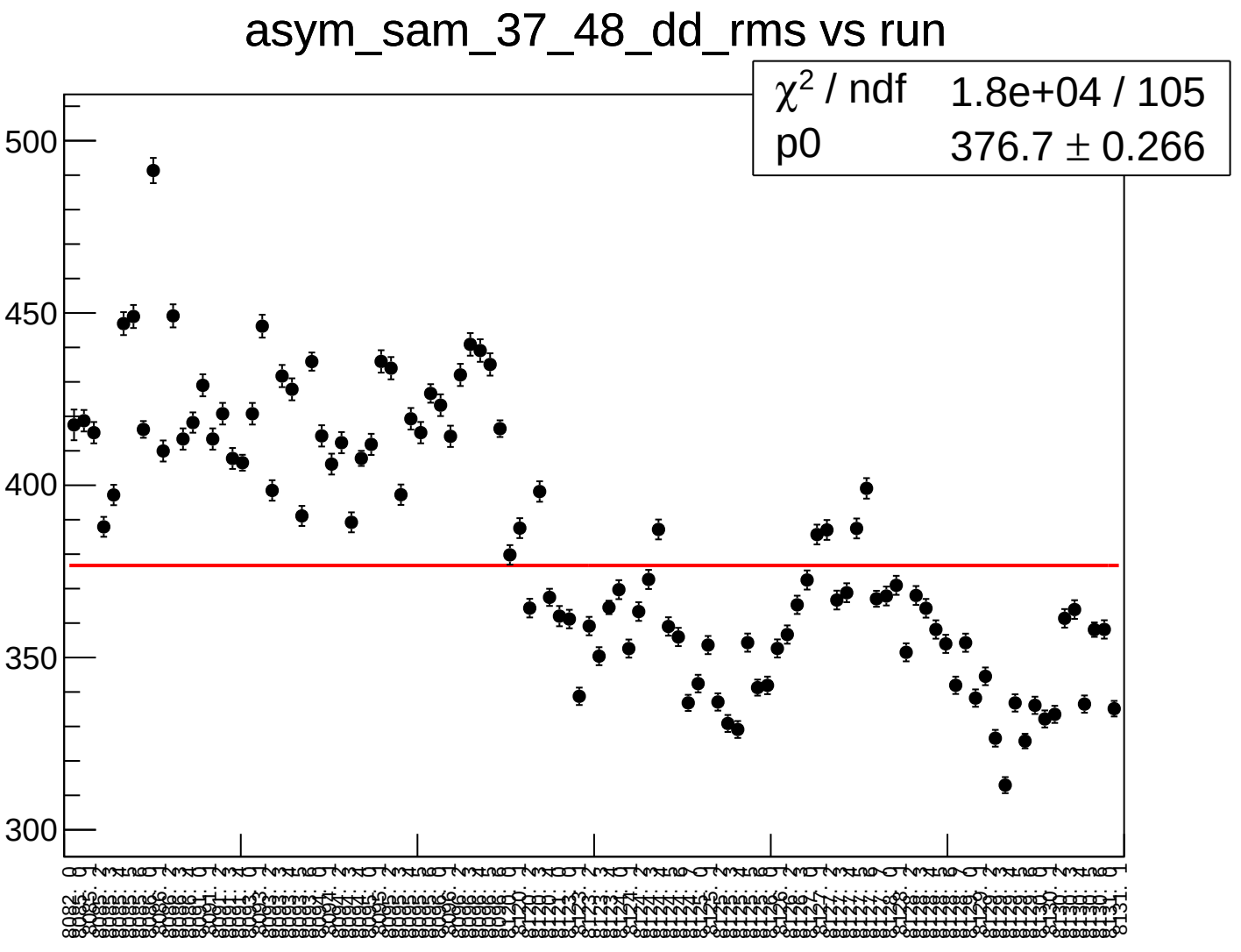

asym_sam_37_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 84.87 / 105
p0 313.9 ± 382.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 106
Mean 294.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

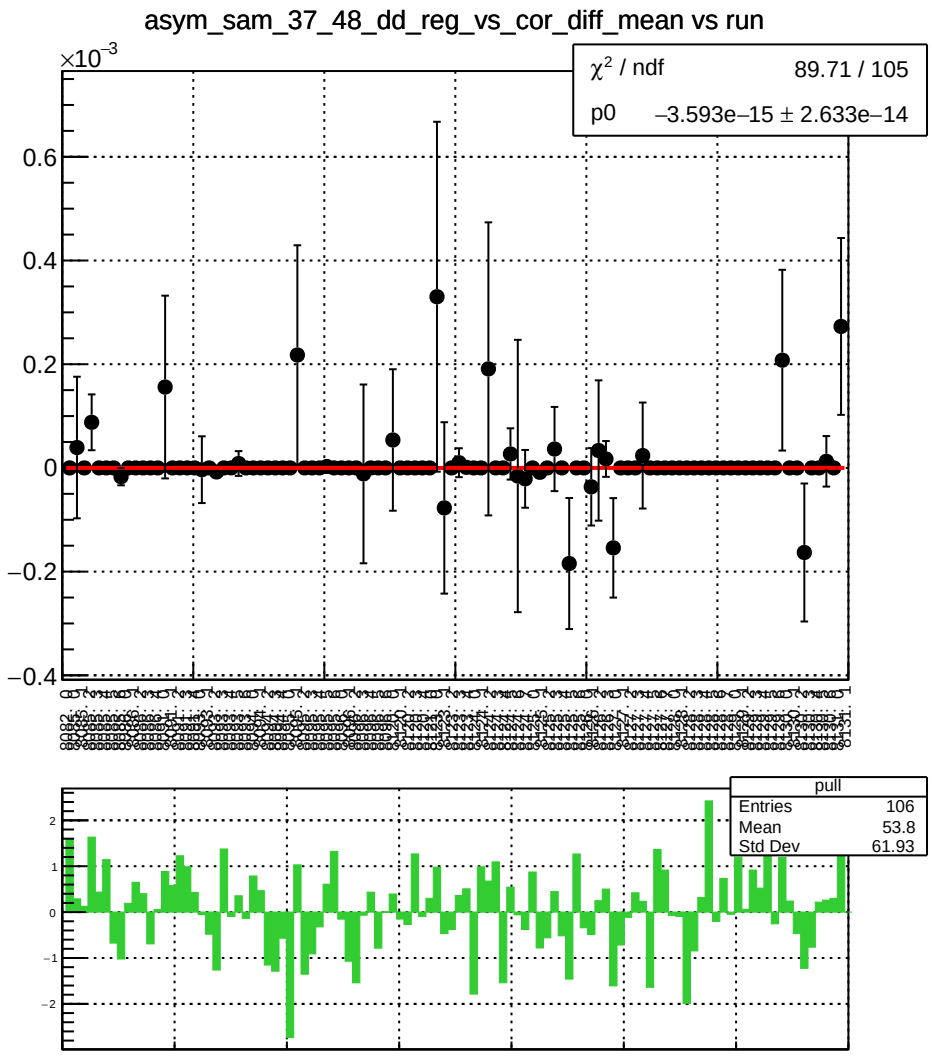

pull1D
Entries 106
Mean 0.003689
Std Dev 0.8948
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

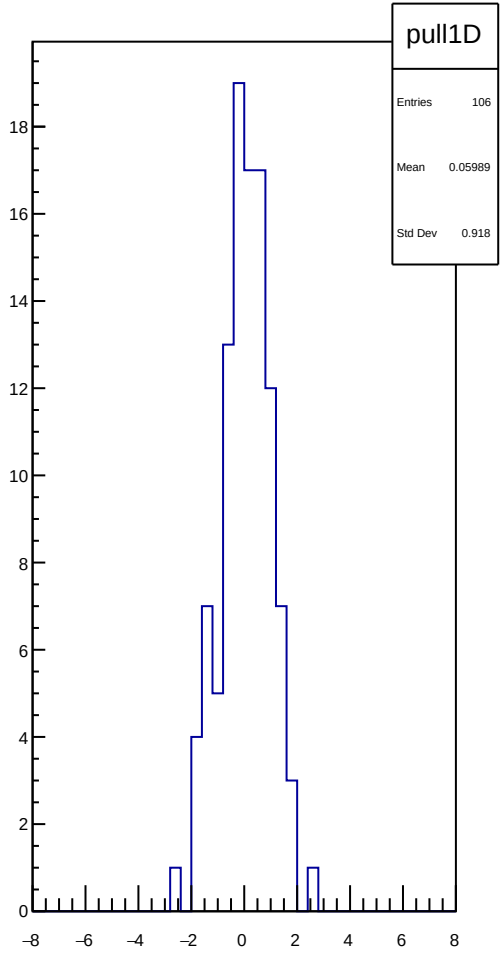

asym_sam_37_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.529e+04 / 105
p0 383.6 ± 0.2707
520
500
480
460
440
420
400
380
360
340
320

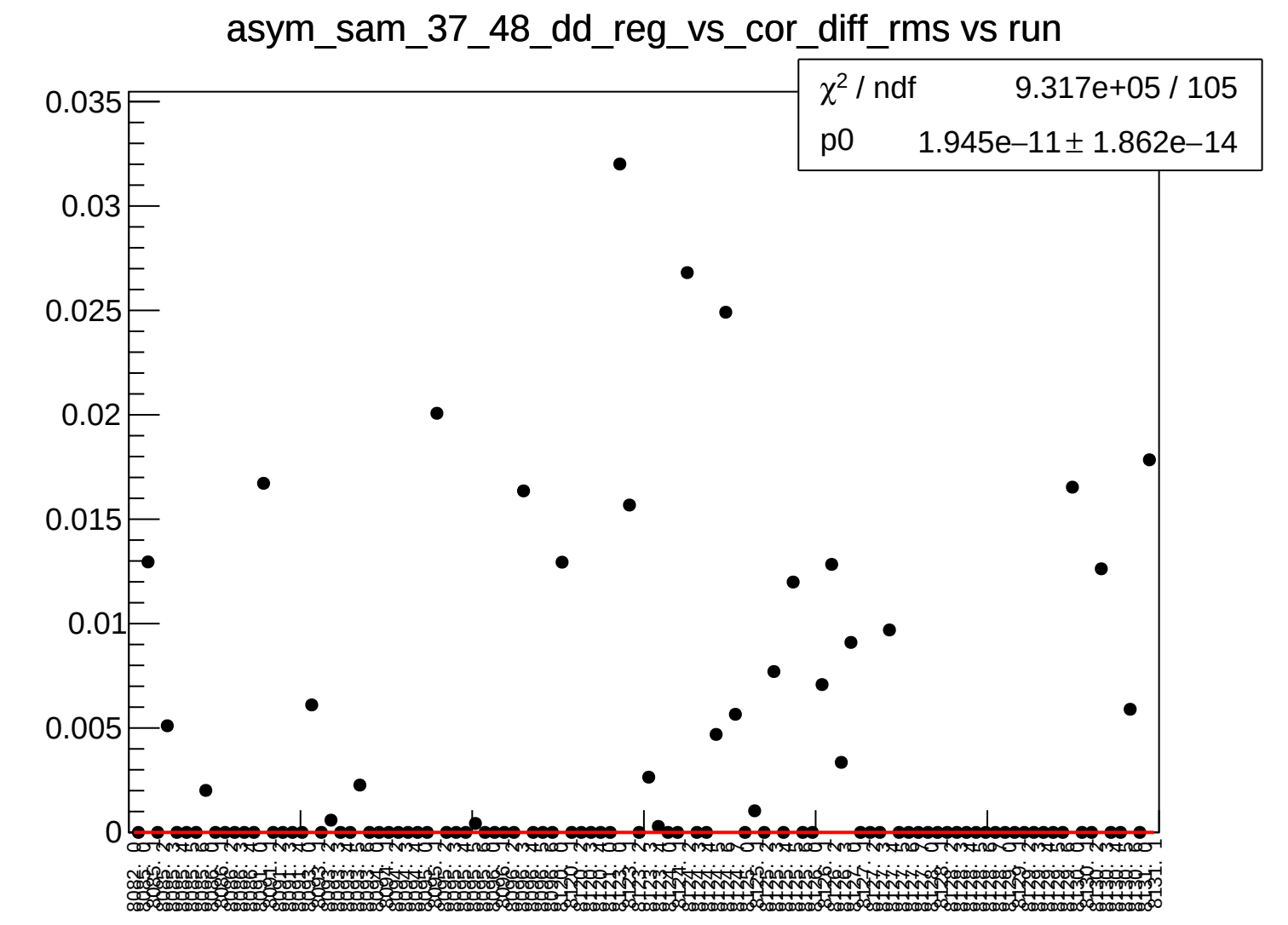

asym_sam_37_48_dd_mean vs run
χ² / ndf 80.27 / 105
p0 −457.2 ± 376.2
15000
10000
5000
0
−5000
−10000
pull
Entries 106
Mean 273.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

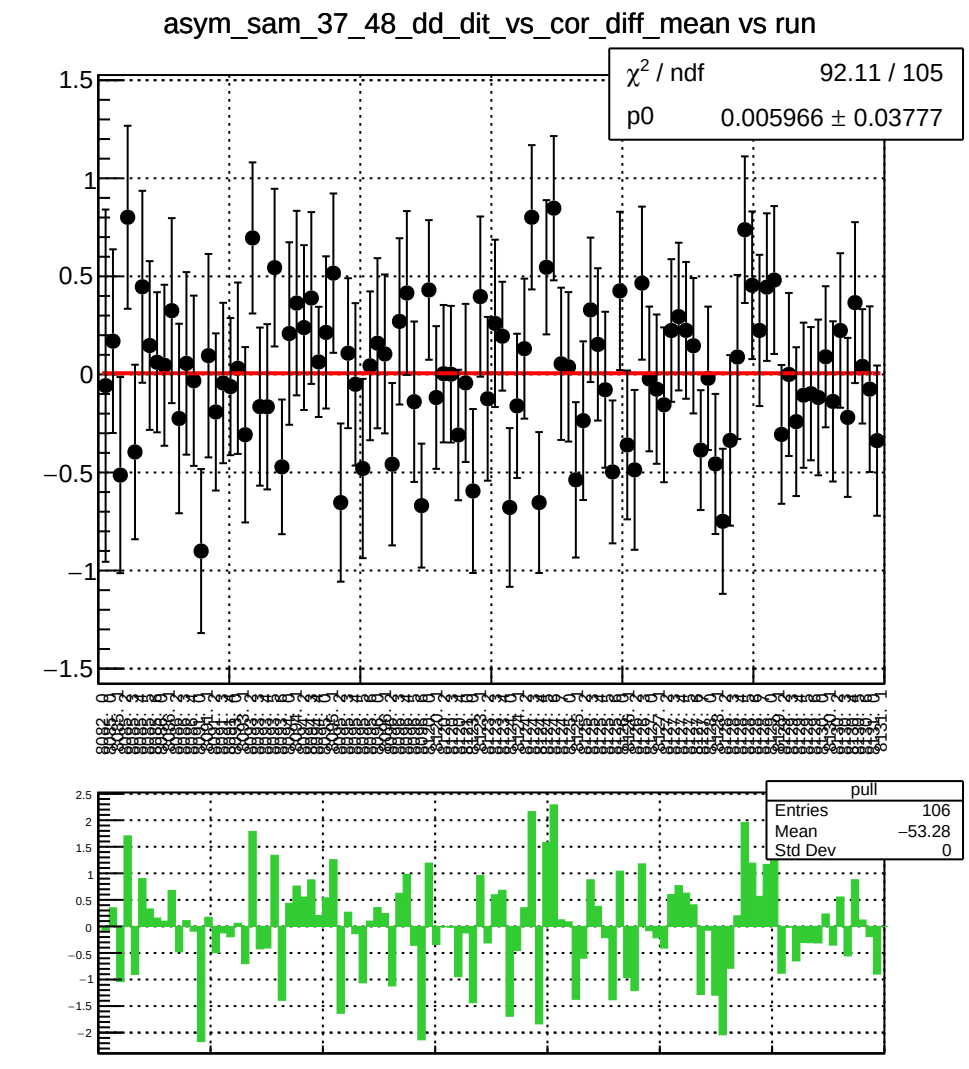

pull1D
Entries 106
Mean −0.003421
Std Dev 0.8702
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

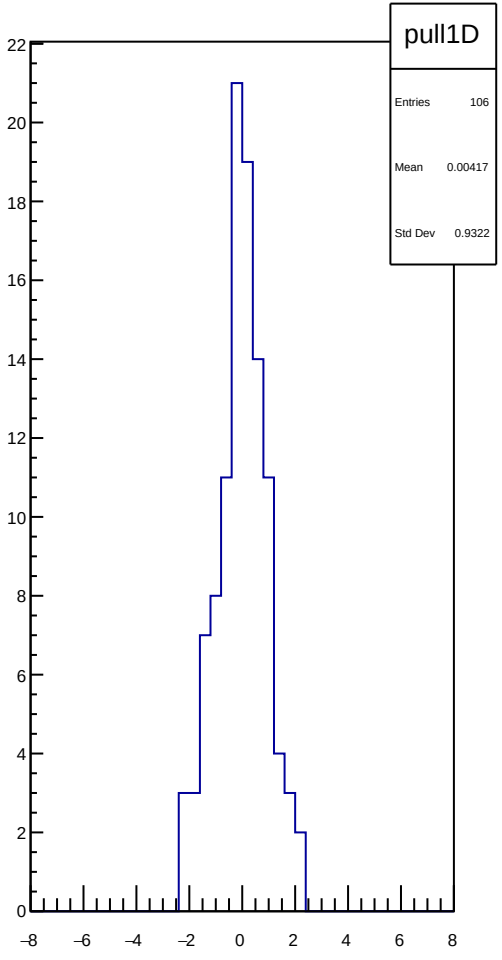

asym_sam_37_48_dd_rms vs run
χ² / ndf 1.8e+04 / 105
p0 376.7 ± 0.266
500
450
400
350
300

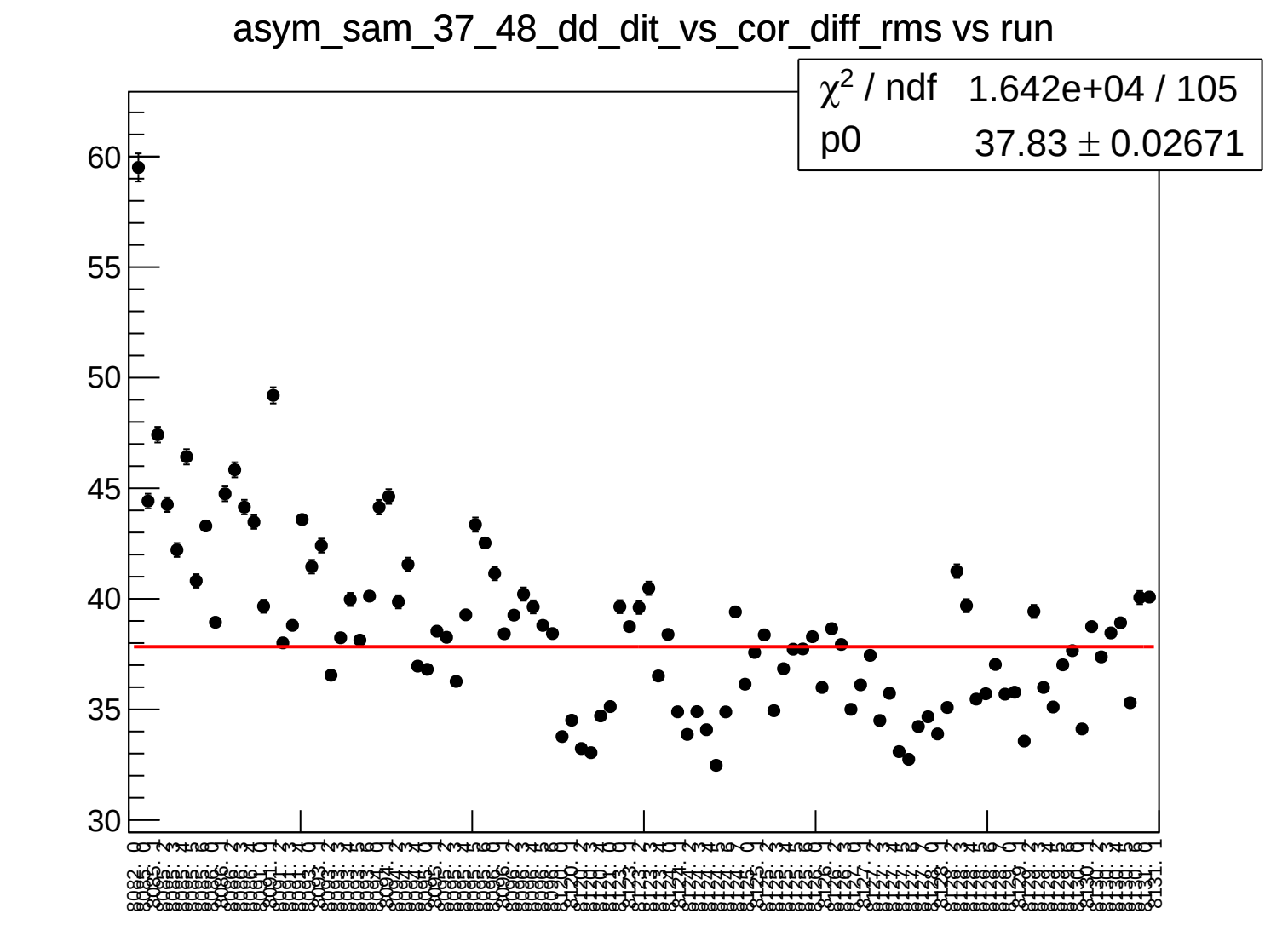

asym_sam_37_48_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 89.71 / 105
p0 −3.593e−15 ± 2.633e−14
0.6
0.4
0.2
0
−0.2
−0.4
pull
Entries 106
Mean 53.8
Std Dev 61.93
2
1
0
−1
−2

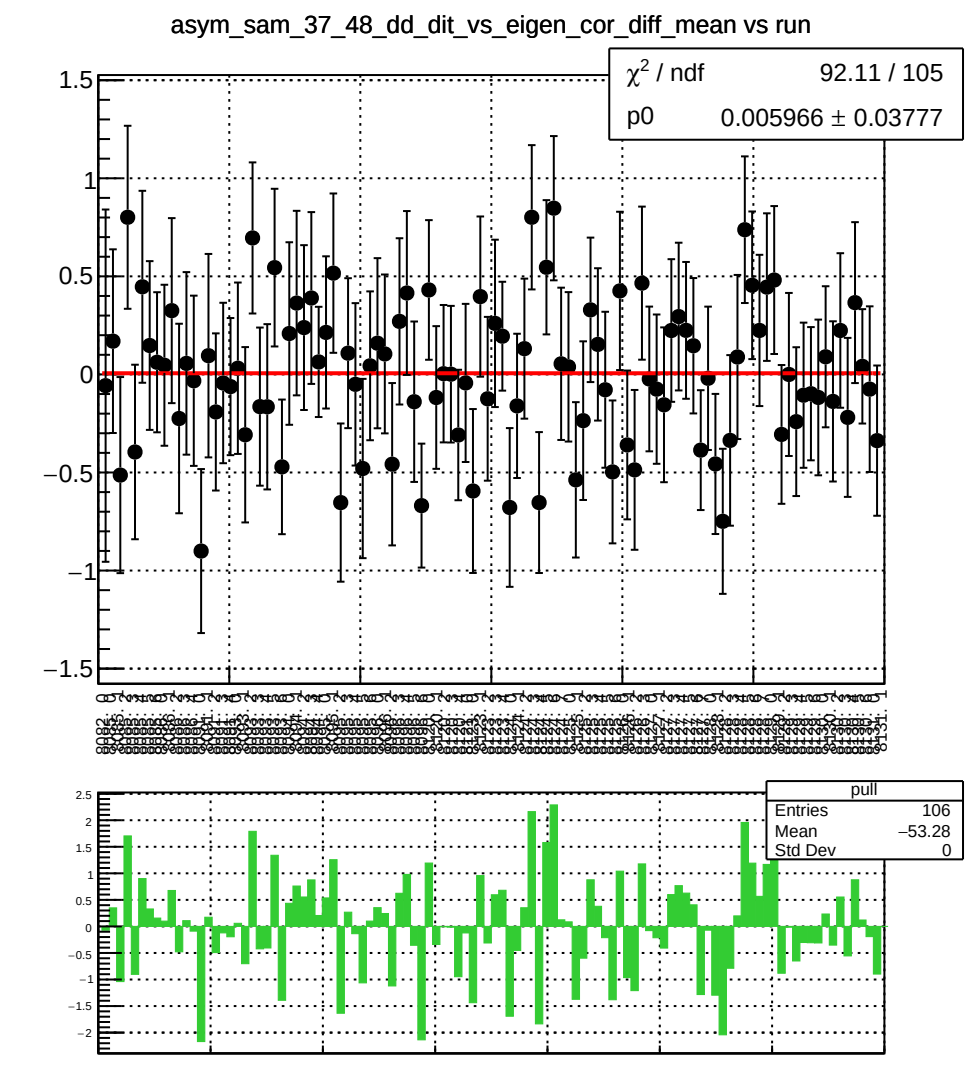

pull1D
Entries 106
Mean 0.05989
Std Dev 0.918
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

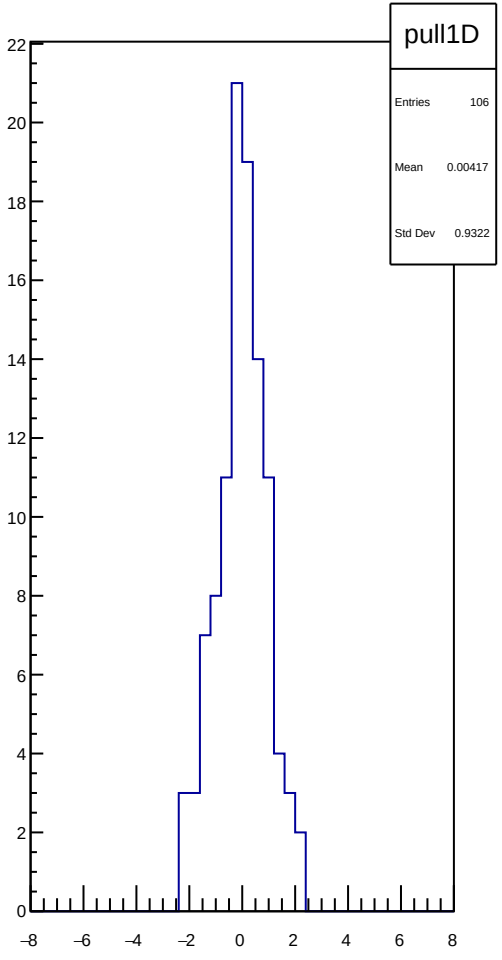

asym_sam_37_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 9.317e+05 / 105
p0 1.945e−11 ± 1.862e−14
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

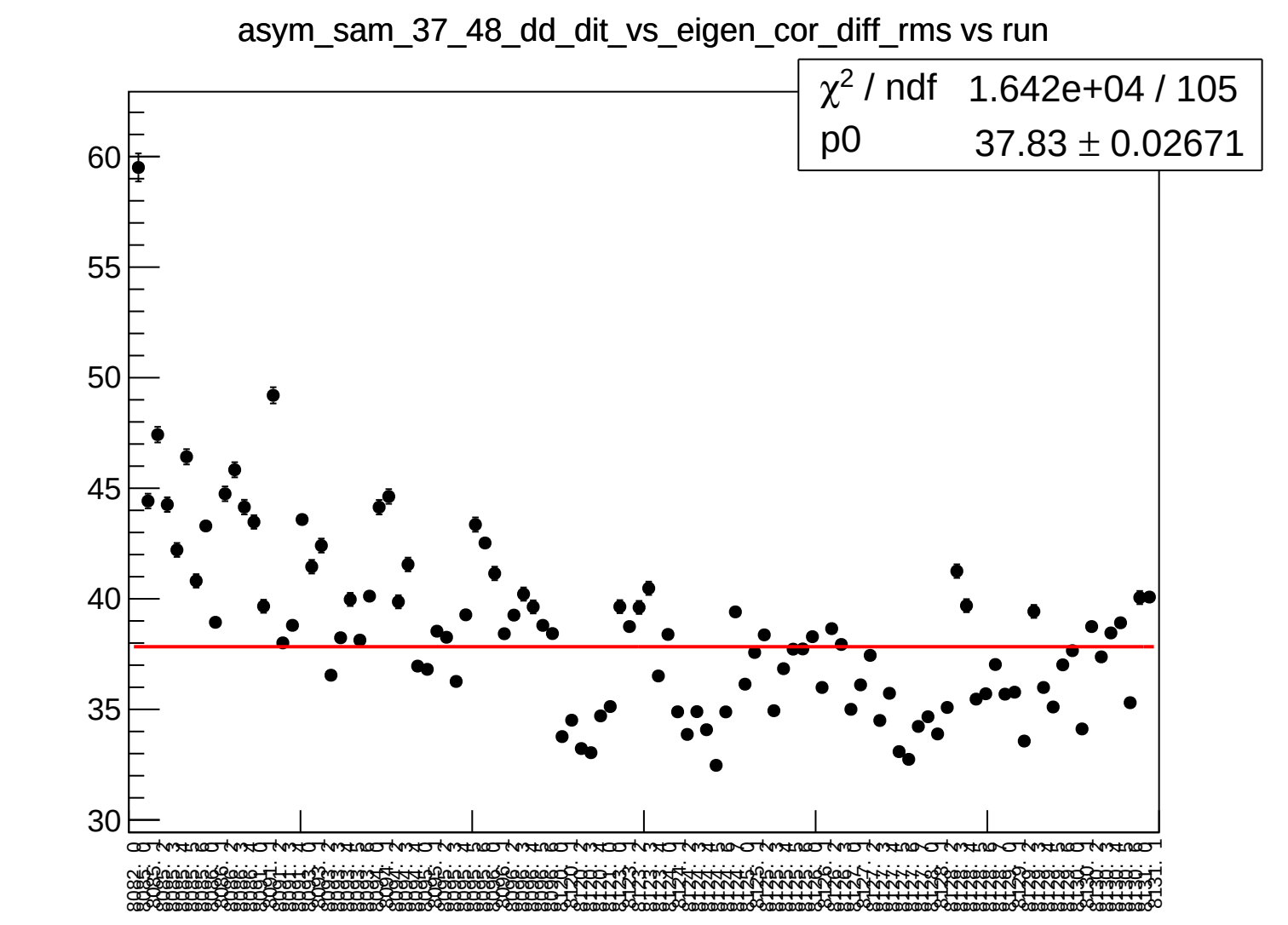

asym_sam_37_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 92.11 / 105
p0 0.005966 ± 0.03777
pull
Entries 106
Mean −53.28
Std Dev 0

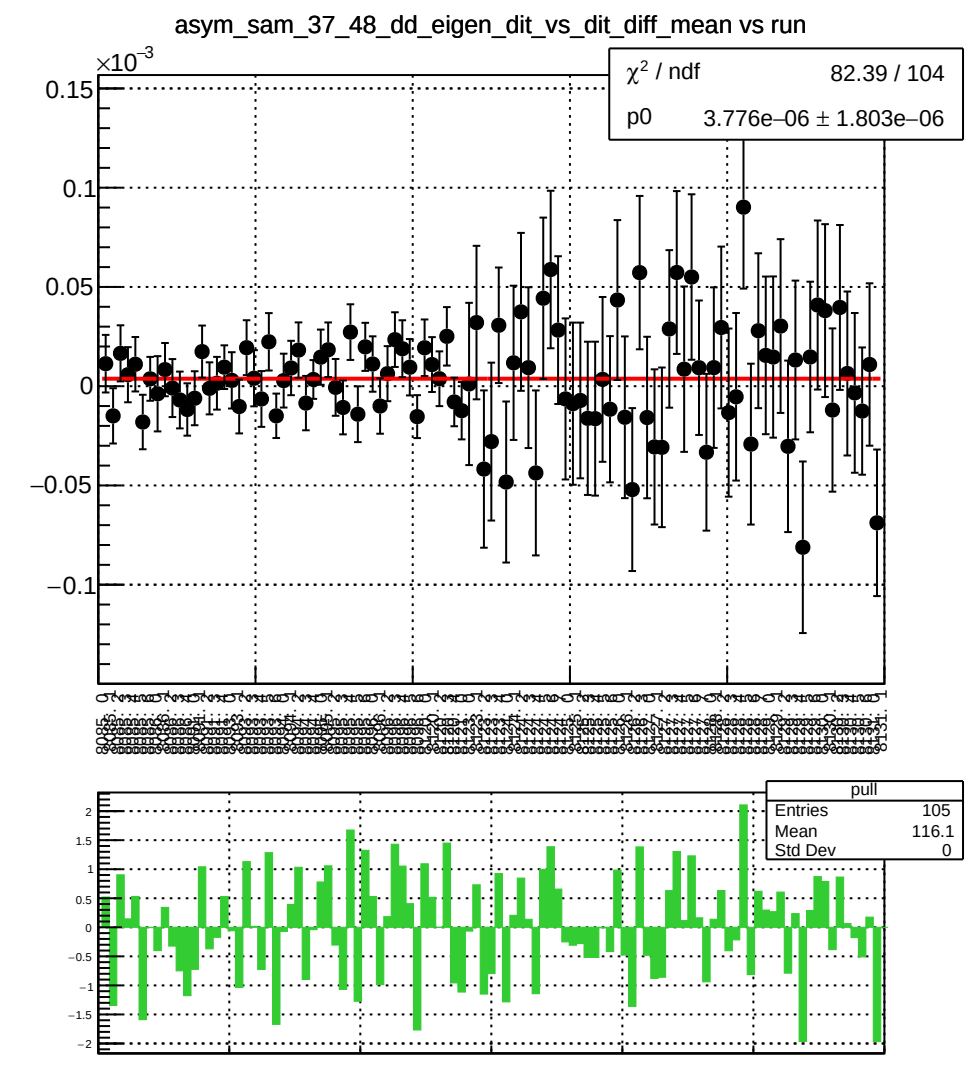

pull1D
Entries 106
Mean 0.00417
Std Dev 0.9322

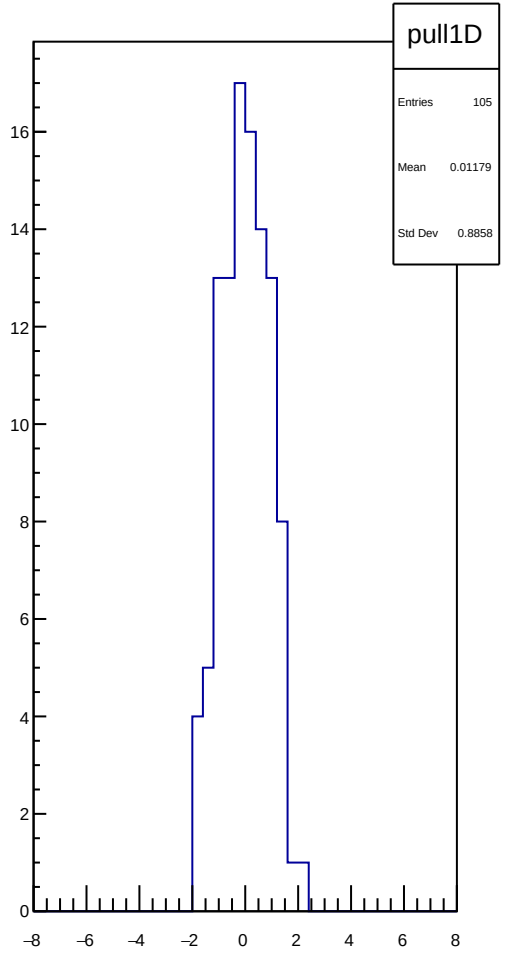

asym_sam_37_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.642e+04 / 105
p0 37.83 ± 0.02671
60
55
50
45
40
35
30

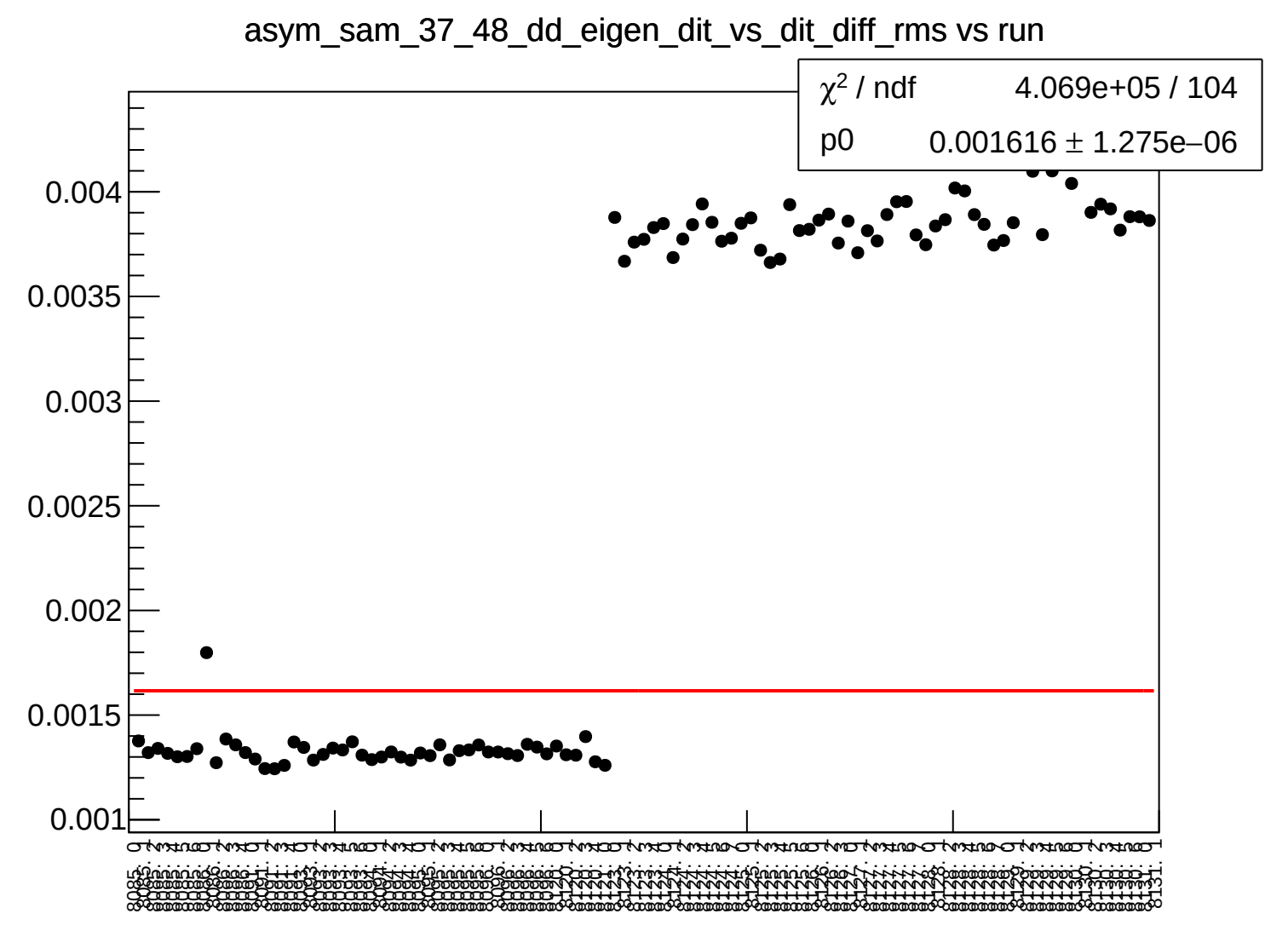

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.11 / 105
p0 0.005966 ± 0.03777
pull
Entries 106
Mean −53.28
Std Dev 0

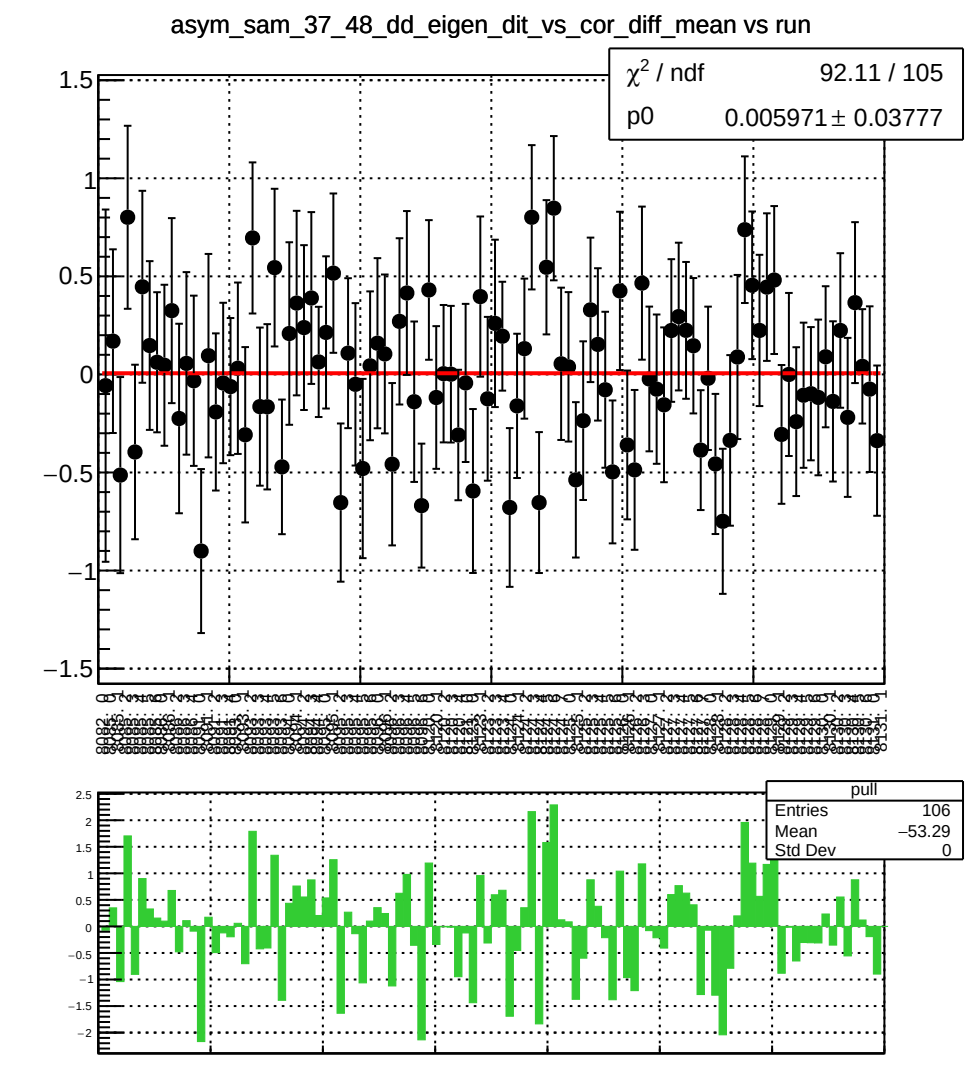

pull1D
Entries 106
Mean 0.00417
Std Dev 0.9322

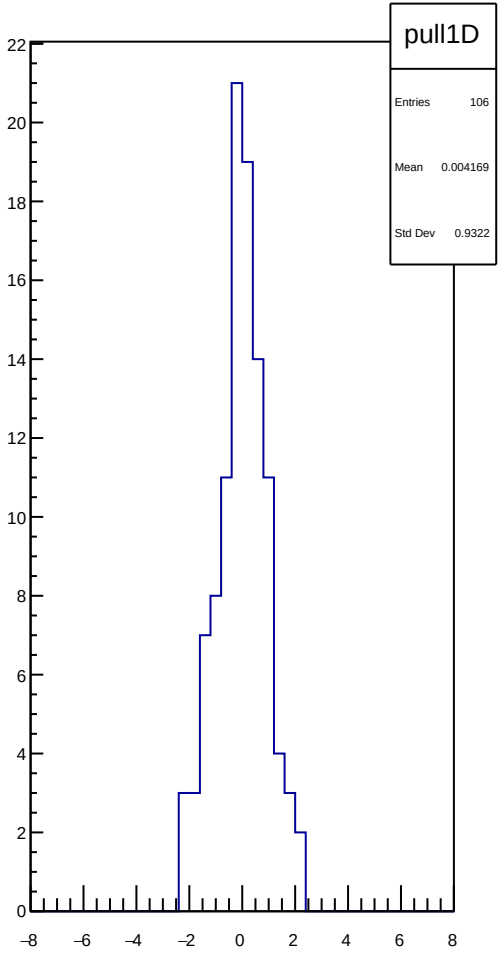

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.642e+04 / 105
p0 37.83 ± 0.02671
60
55
50
45
40
35
30

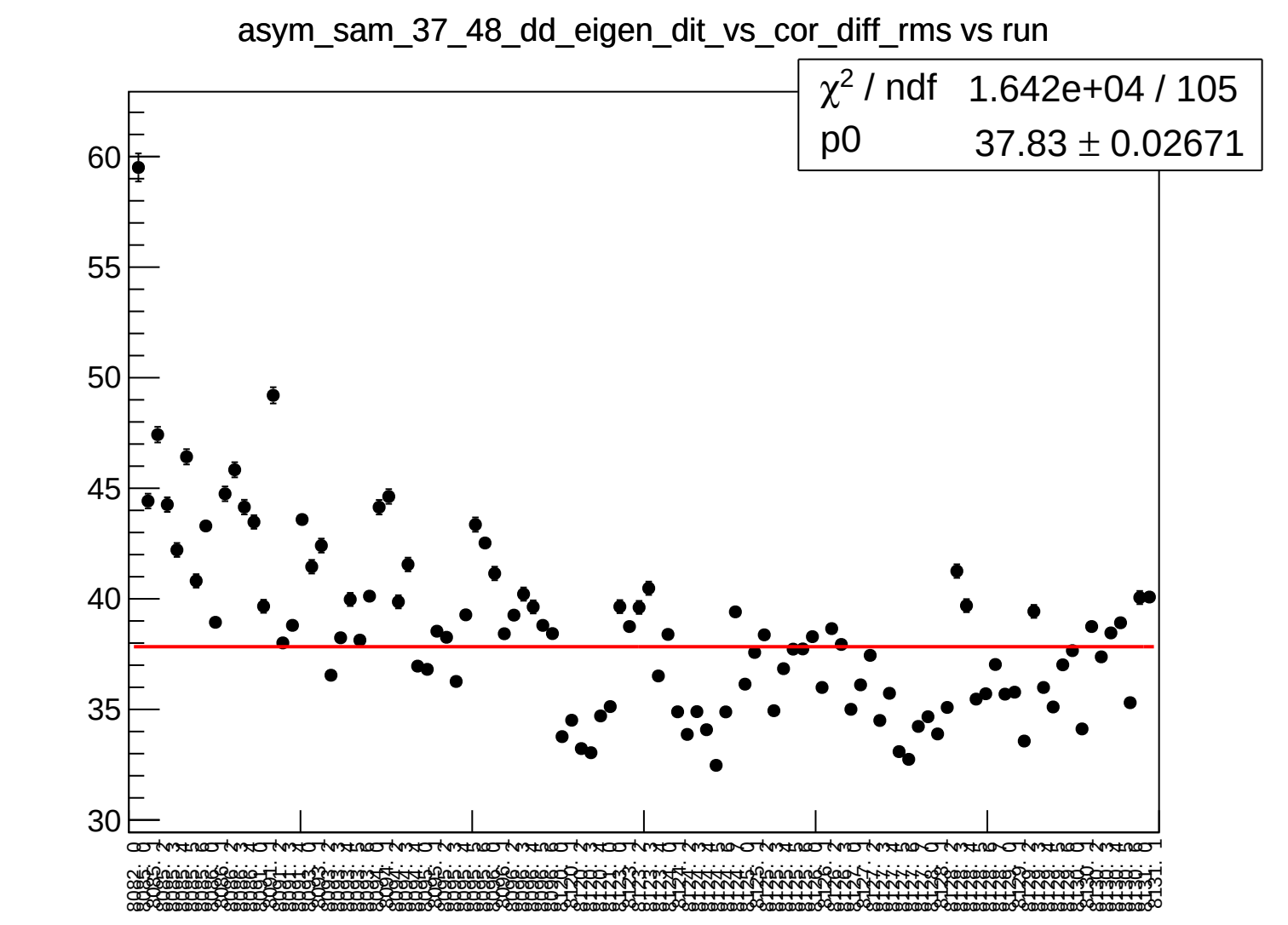

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 82.39 / 104
p0 3.776e−06 ± 1.803e−06
pull
Entries 105
Mean 116.1
Std Dev 0

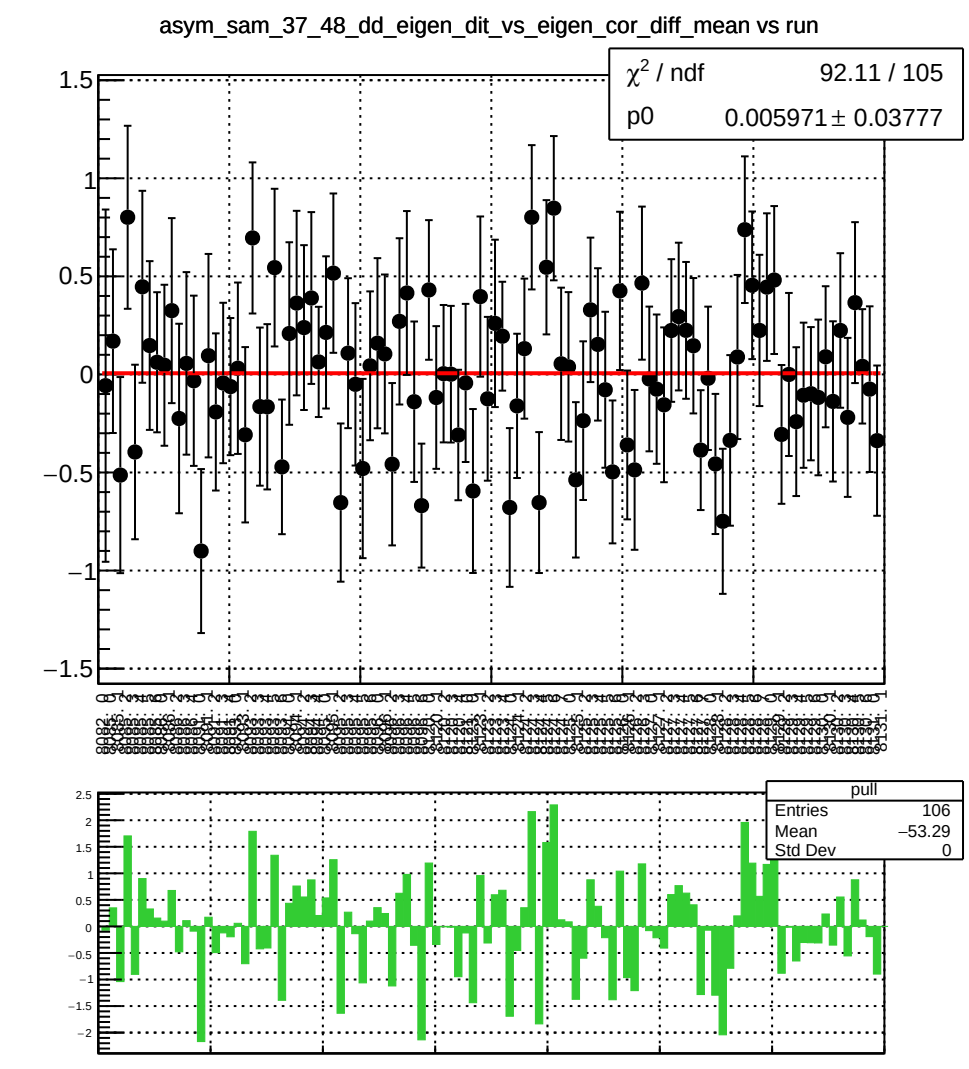

pull1D
Entries 105
Mean 0.01179
Std Dev 0.8858

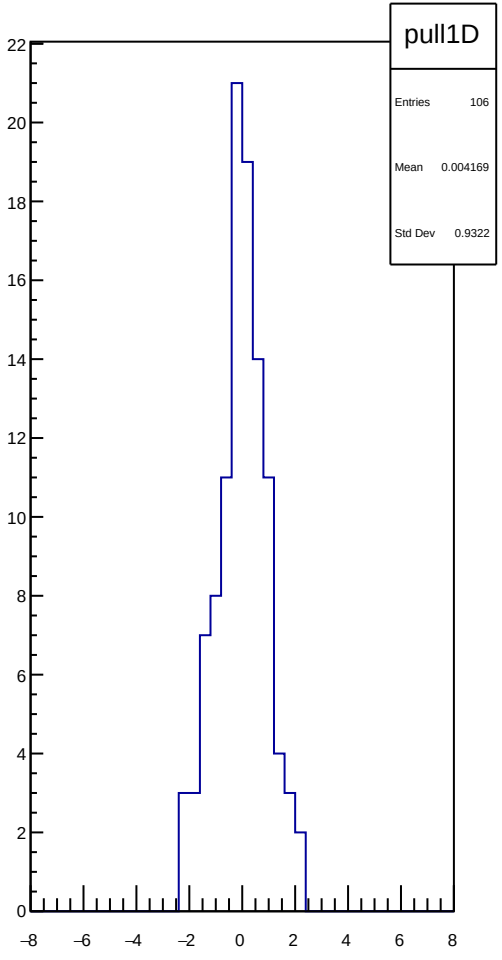

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.069e+05 / 104
p0 0.001616 ± 1.275e−06
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001

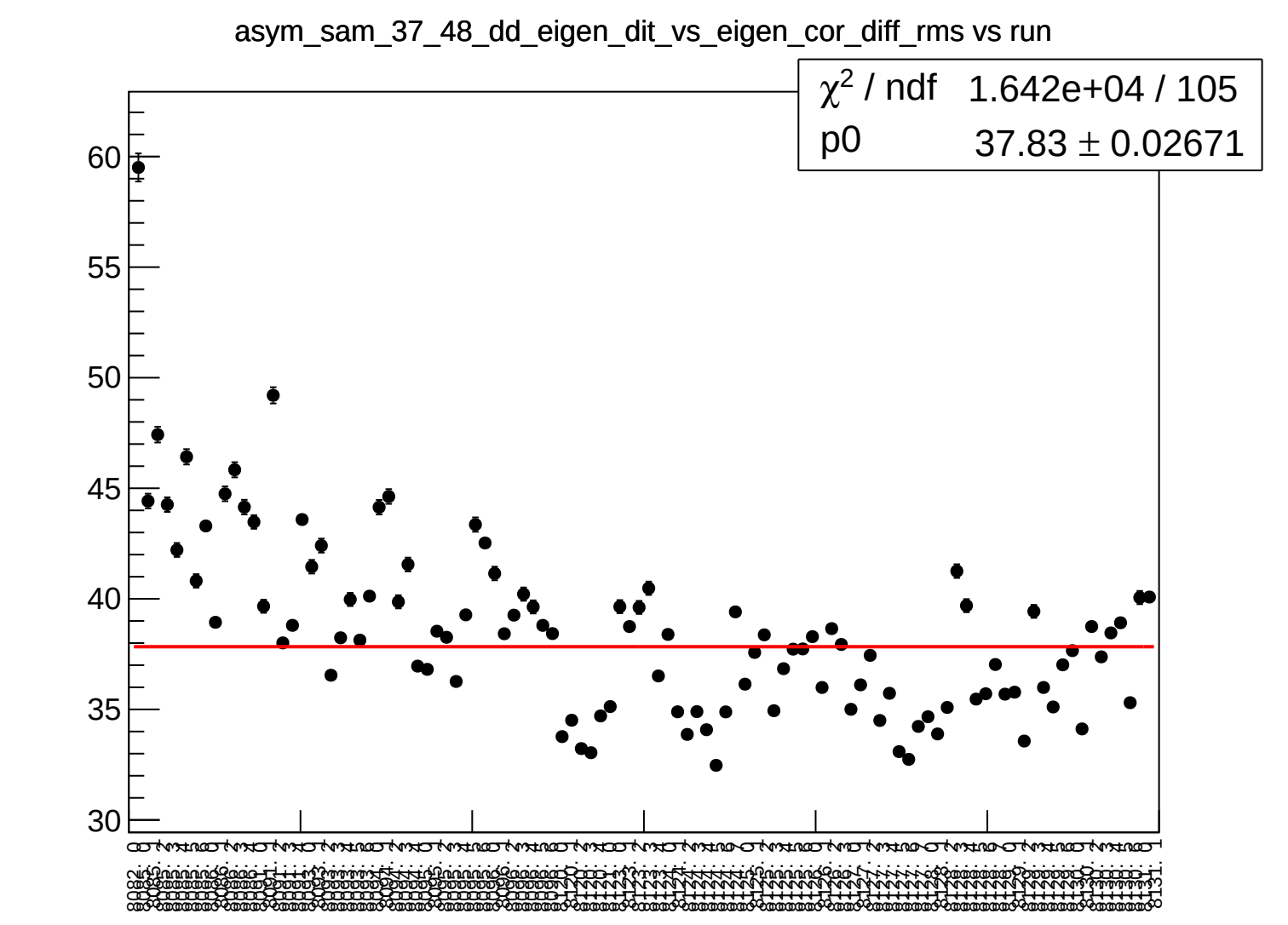

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 92.11 / 105
p0 0.005971 ± 0.03777
pull
Entries 106
Mean −53.29
Std Dev 0

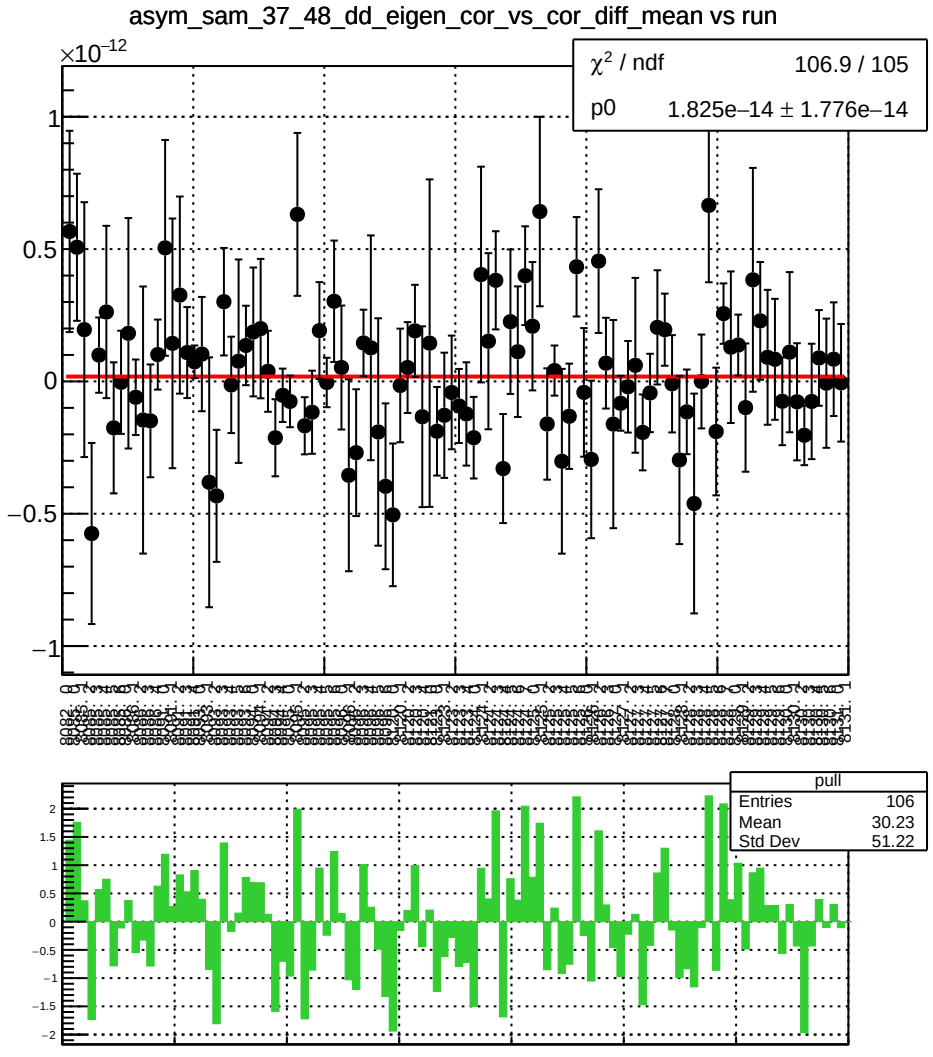

pull1D
Entries 106
Mean 0.004169
Std Dev 0.9322

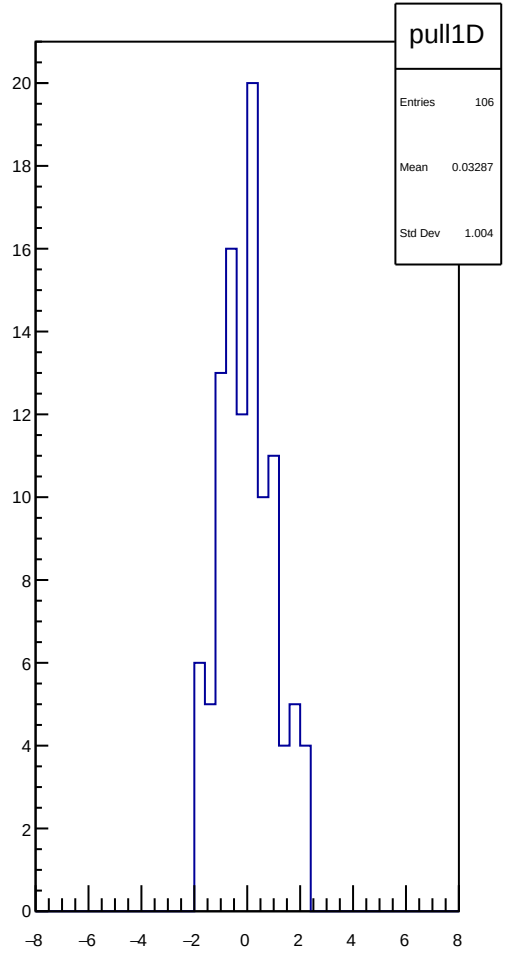

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.642e+04 / 105
p0 37.83 ± 0.02671
60
55
50
45
40
35
30

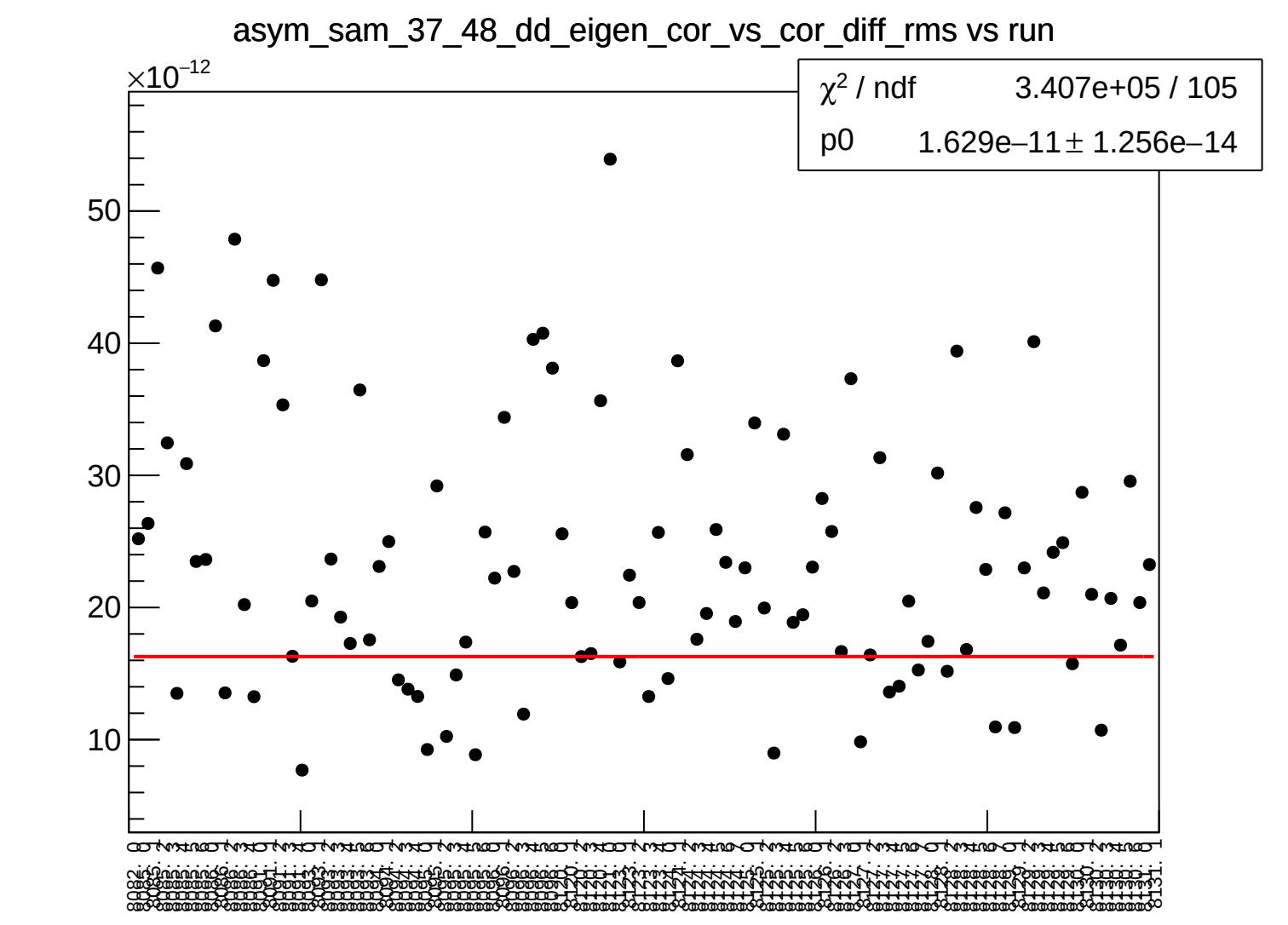

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 92.11 / 105
p0 0.005971 ± 0.03777
pull
Entries 106
Mean −53.29
Std Dev 0

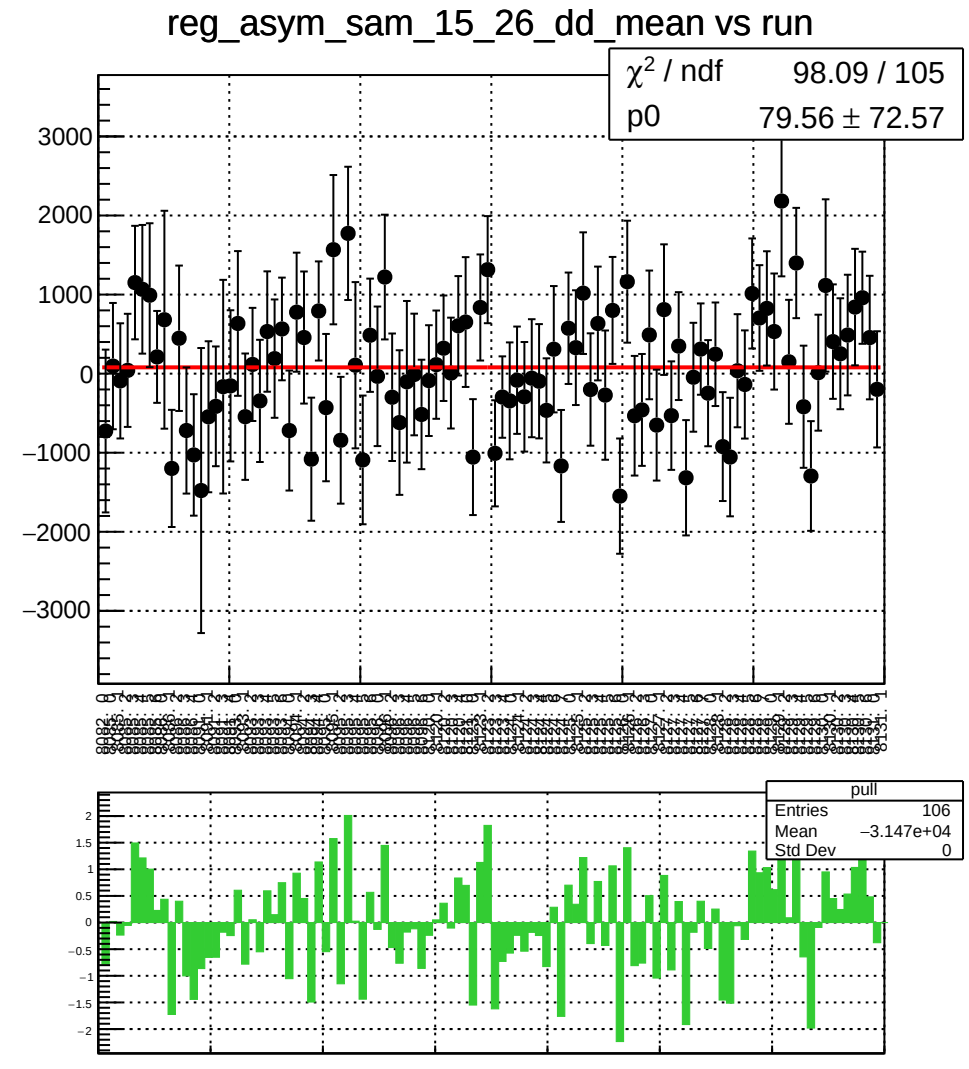

pull1D
Entries 106
Mean 0.004169
Std Dev 0.9322

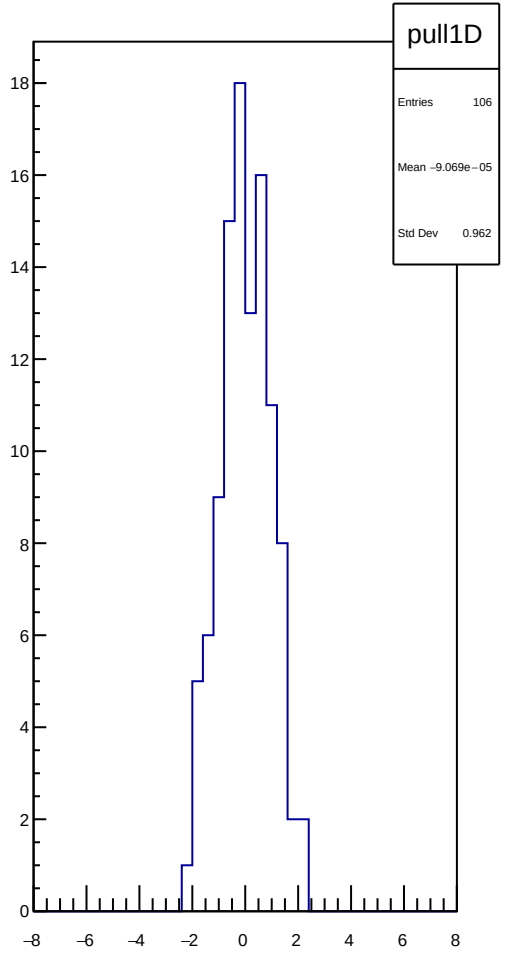

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.642e+04 / 105
p0 37.83 ± 0.02671
60
55
50
45
40
35
30


asym_sam_37_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 106.9 / 105
p0 1.825e−14 ± 1.776e−14
pull
Entries 106
Mean 30.23
Std Dev 51.22


pull1D
Entries 106
Mean 0.03287
Std Dev 1.004


asym_sam_37_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 3.407e+05 / 105
p0 1.629e−11 ± 1.256e−14
50
40
30
20
10


reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 98.09 / 105
p0 79.56 ± 72.57
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 106
Mean −3.147e+04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 106
Mean −9.069e−05
Std Dev 0.962
18
16
14
12
10
8
6
4
2
0
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−4
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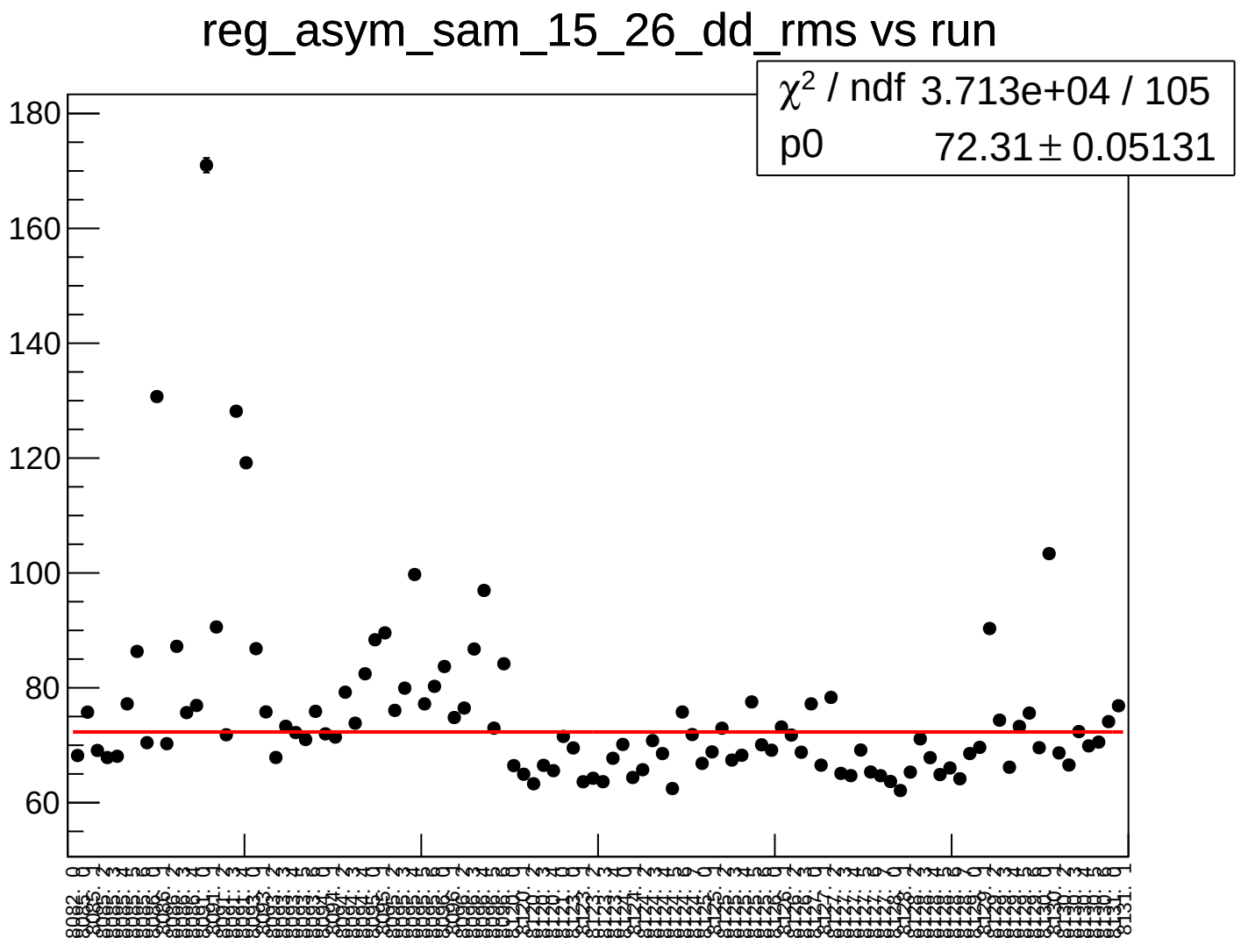
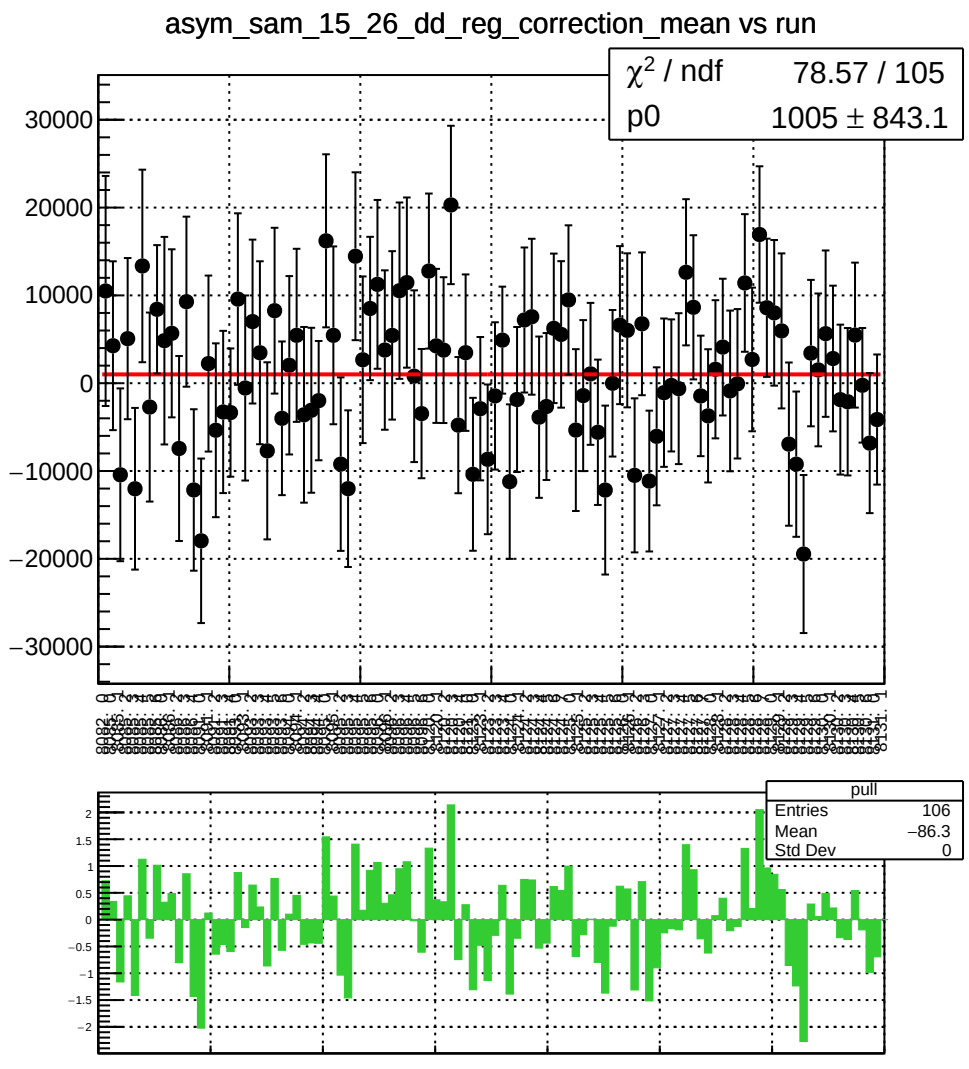
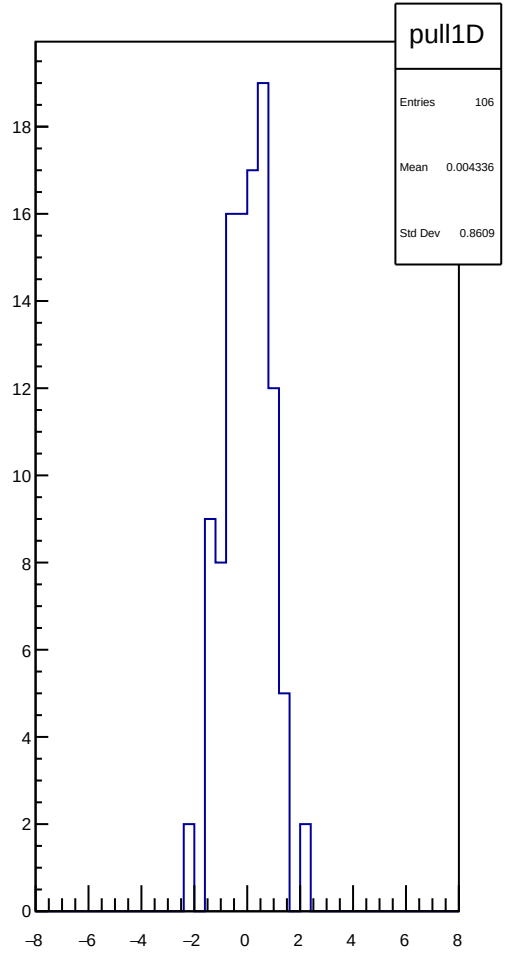
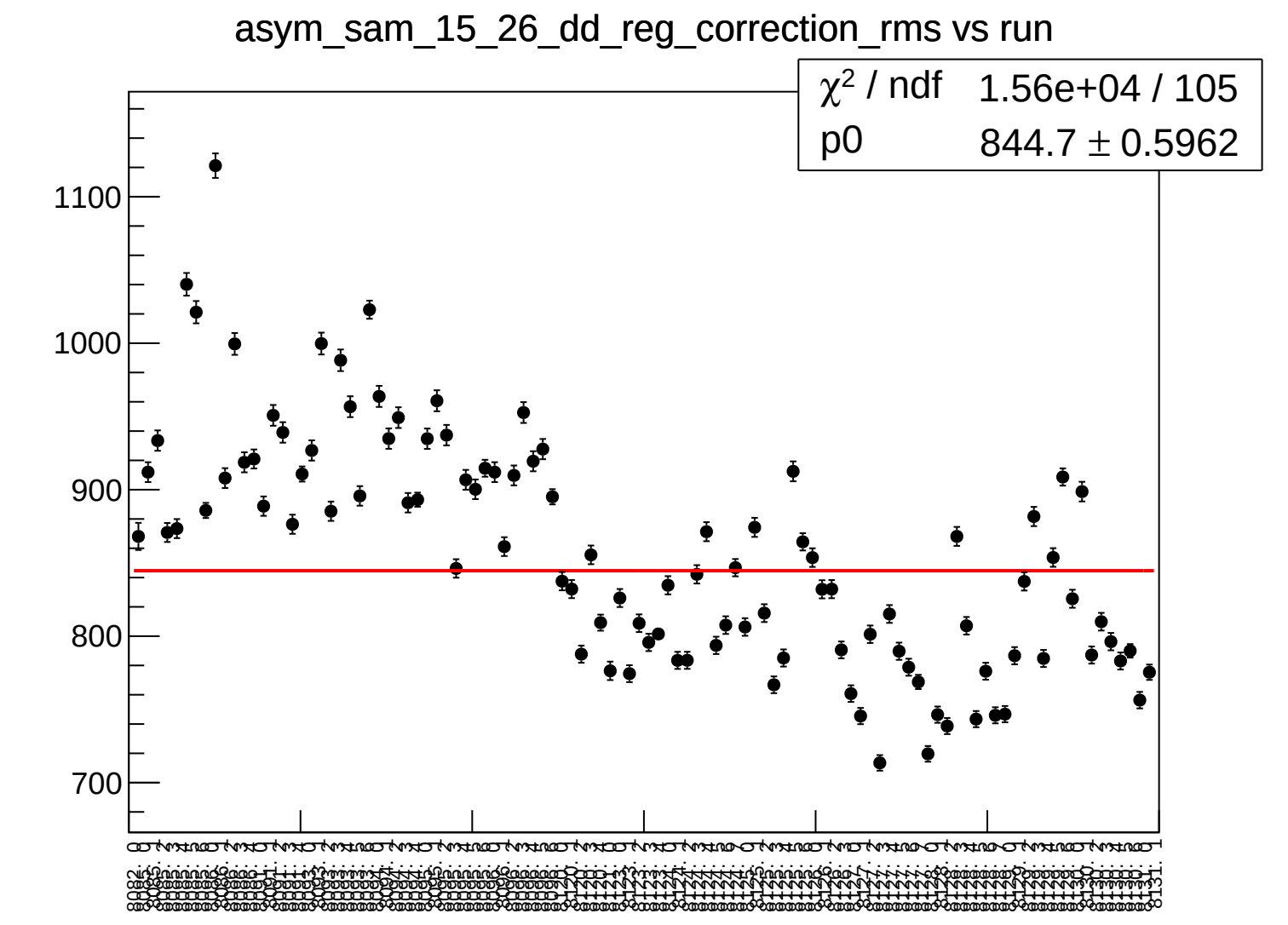
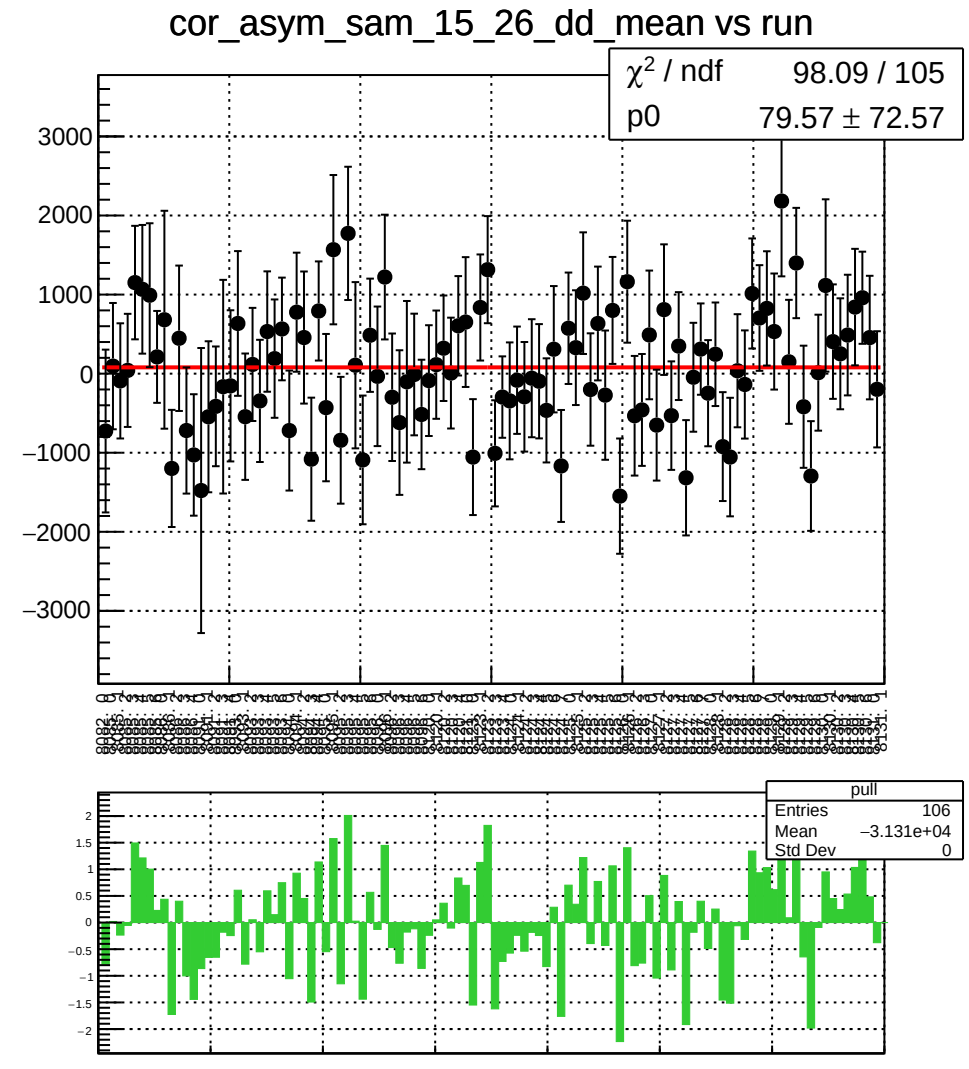
0
2
4
6
8

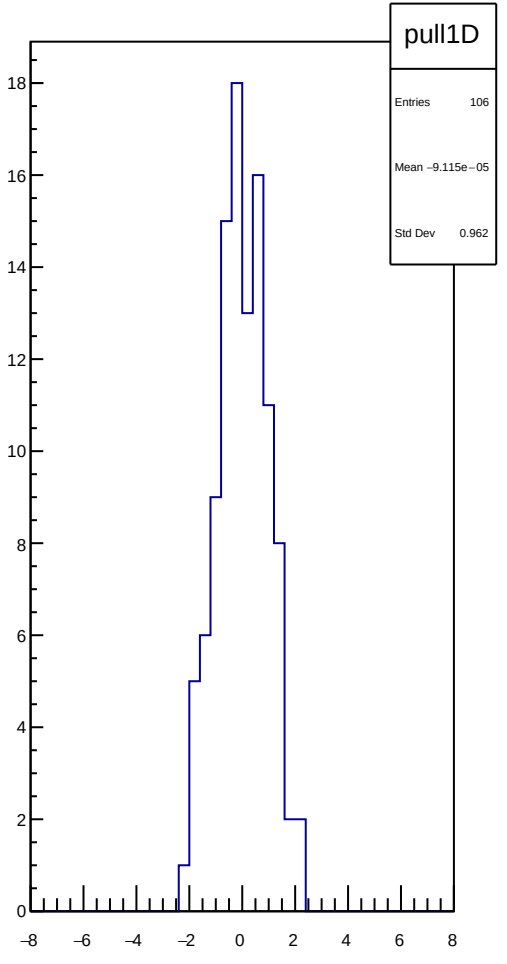

reg_asym_sam_15_26_dd_rms vs run
χ² / ndf 3.713e+04 / 105
p0 72.31 ± 0.05131
180
160
140
120
100
80
60

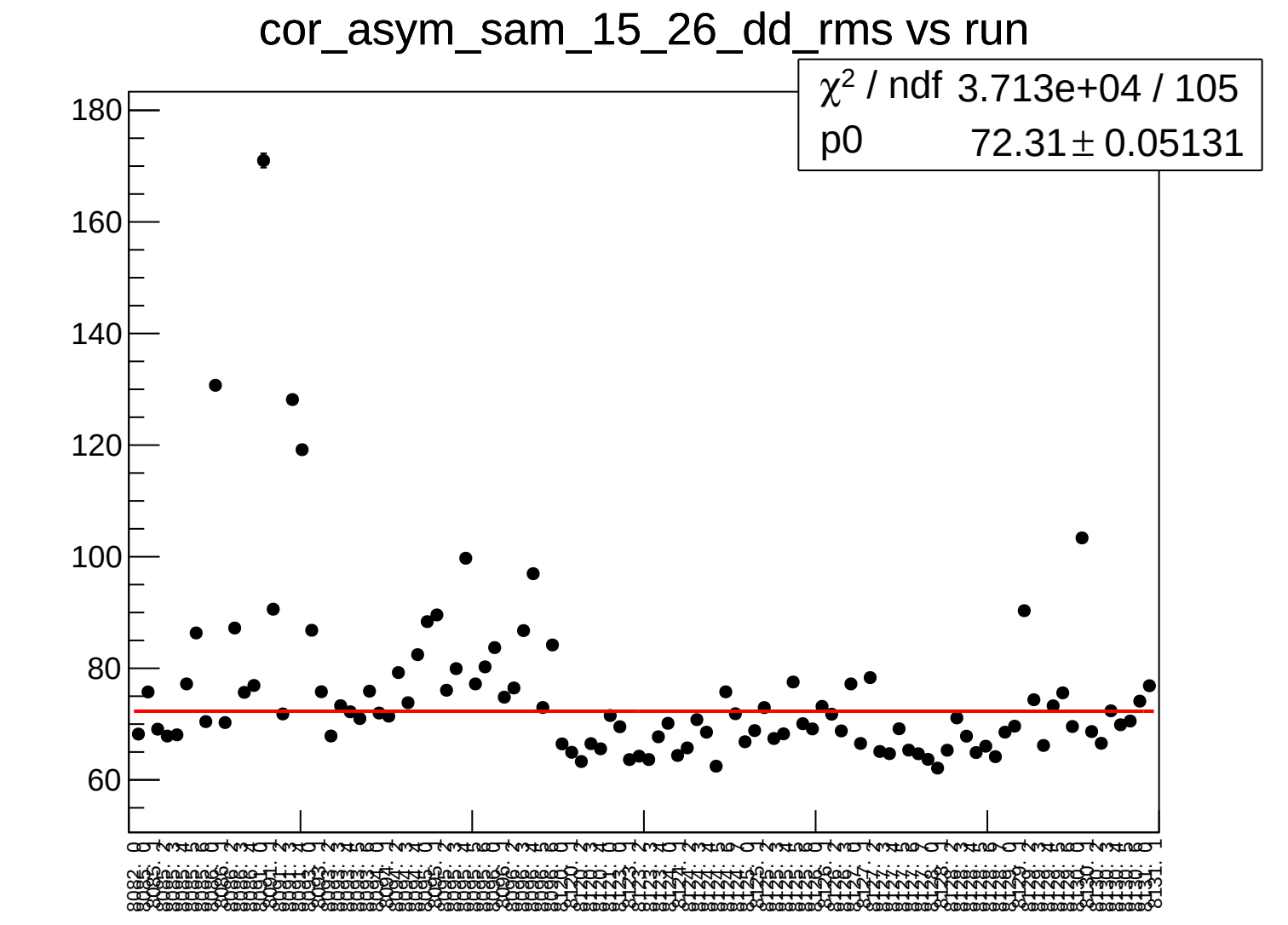

asym_sam_15_26_dd_reg_correction_mean vs run
χ² / ndf 78.57 / 105
p0 1005 ± 843.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 106
Mean −86.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

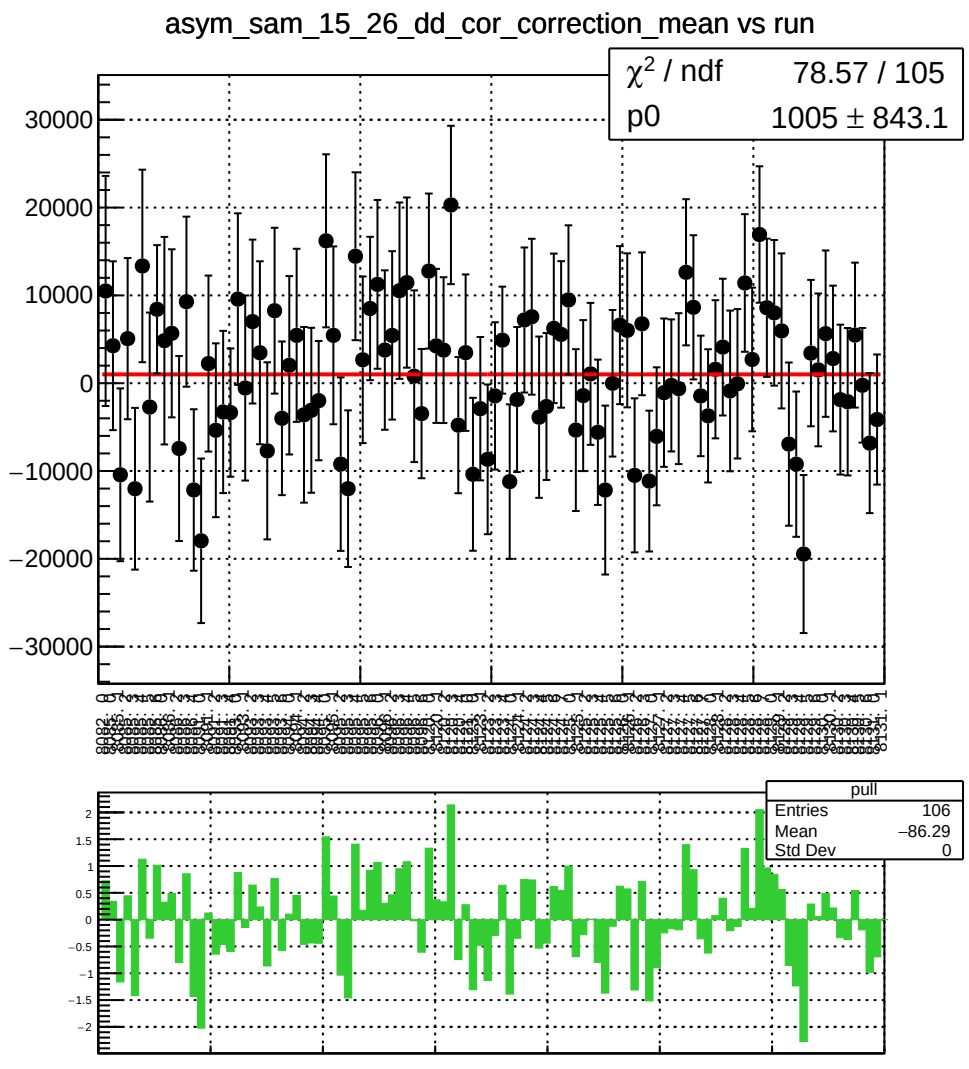

pull1D
Entries 106
Mean 0.004336
Std Dev 0.8609
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

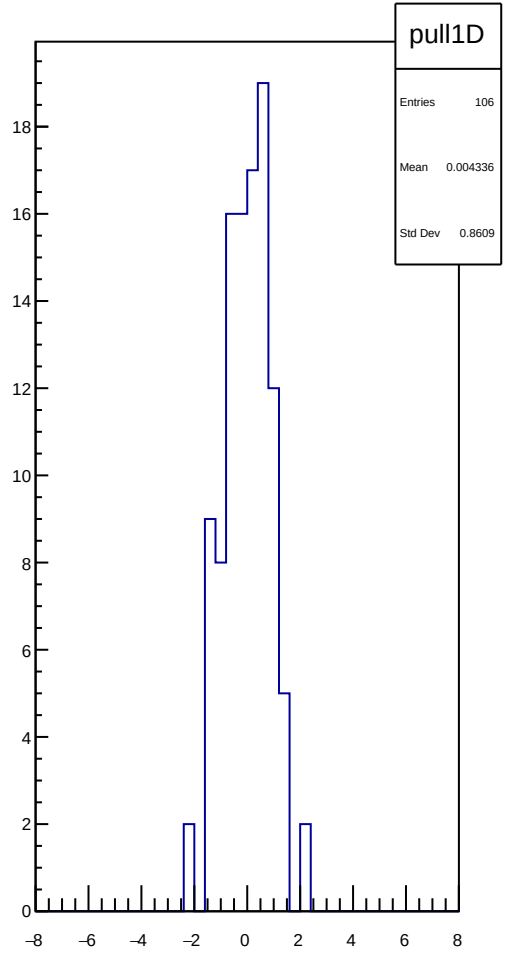

asym_sam_15_26_dd_reg_correction_rms vs run
χ² / ndf 1.56e+04 / 105
p0 844.7 ± 0.5962
1100
1000
900
800
700

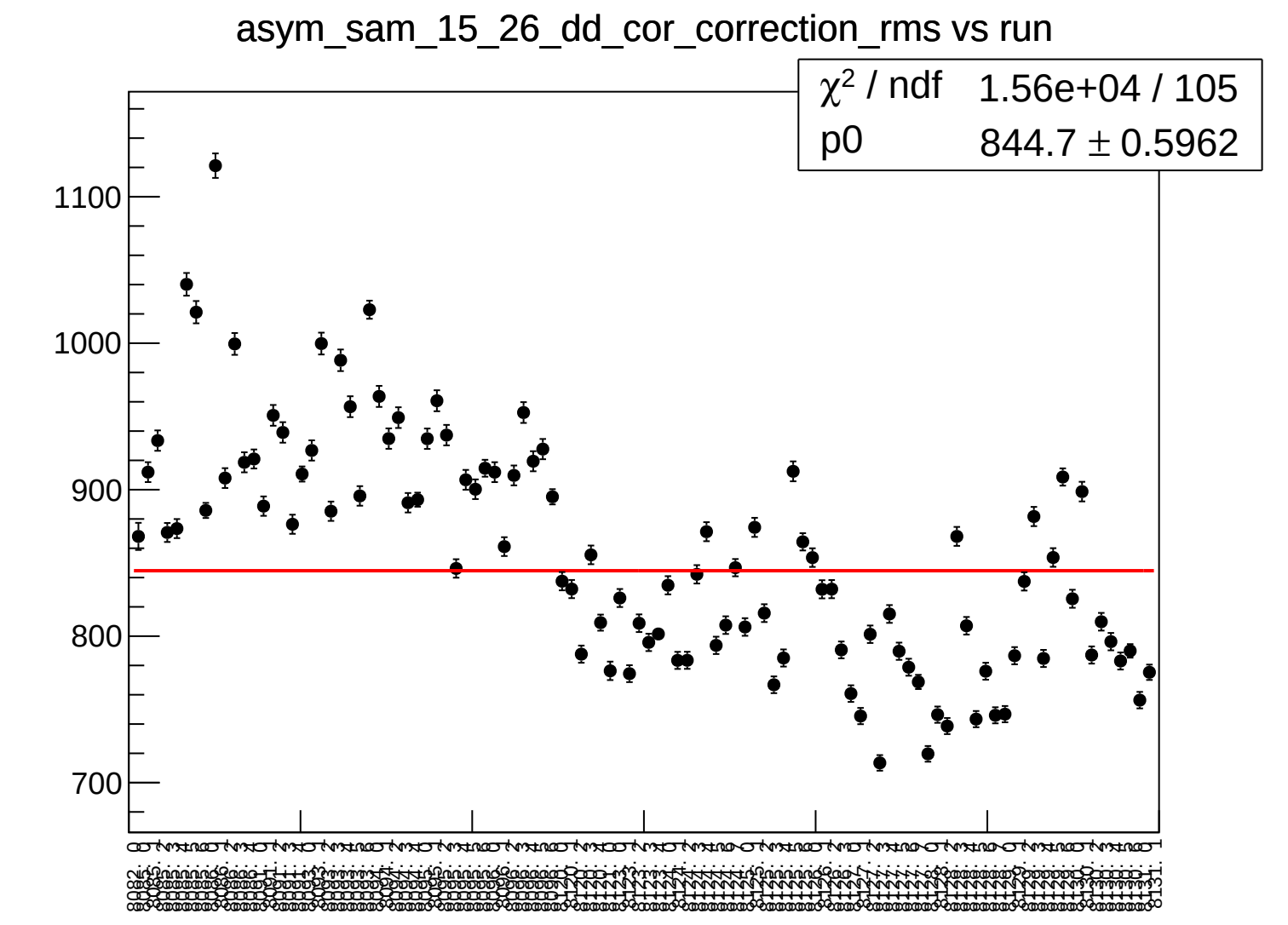

cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 98.09 / 105
p0 79.57 ± 72.57
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 106
Mean −3.131e+04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

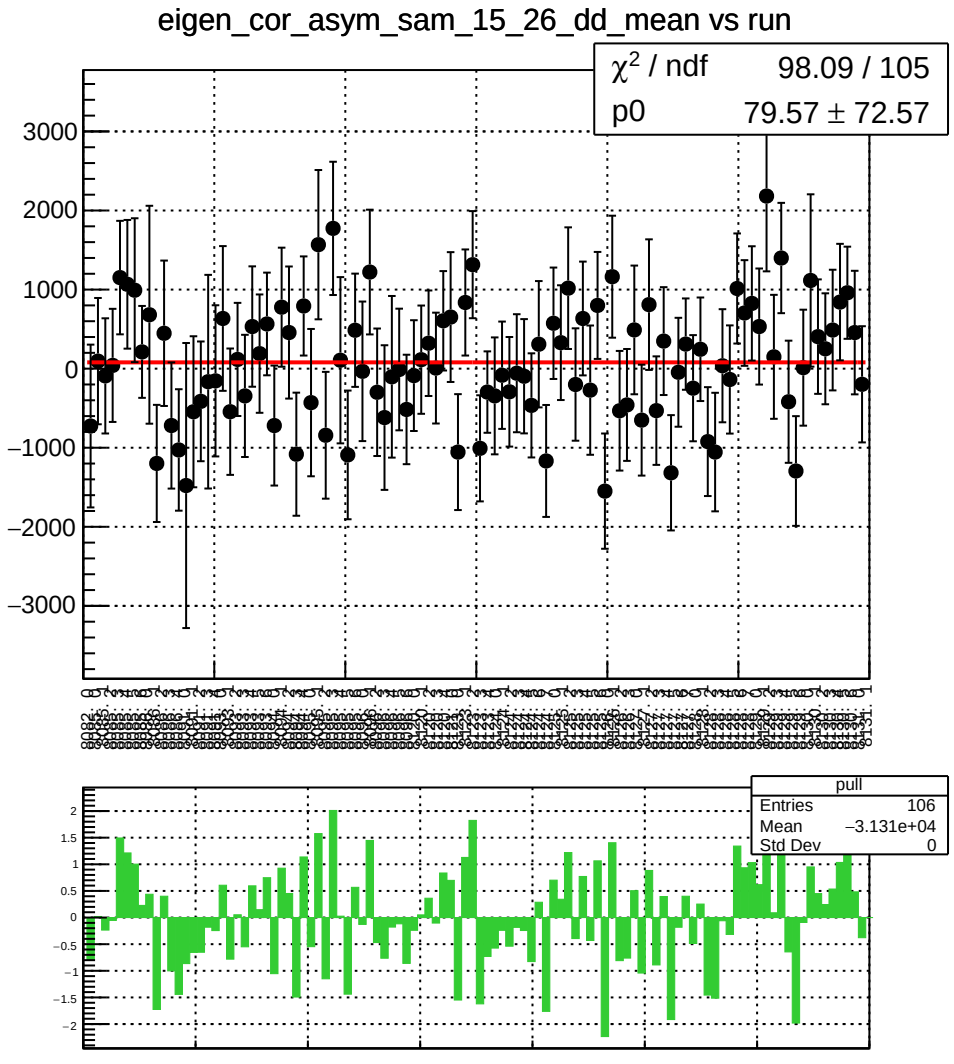

pull1D
Entries 106
Mean −9.115e−05
Std Dev 0.962
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

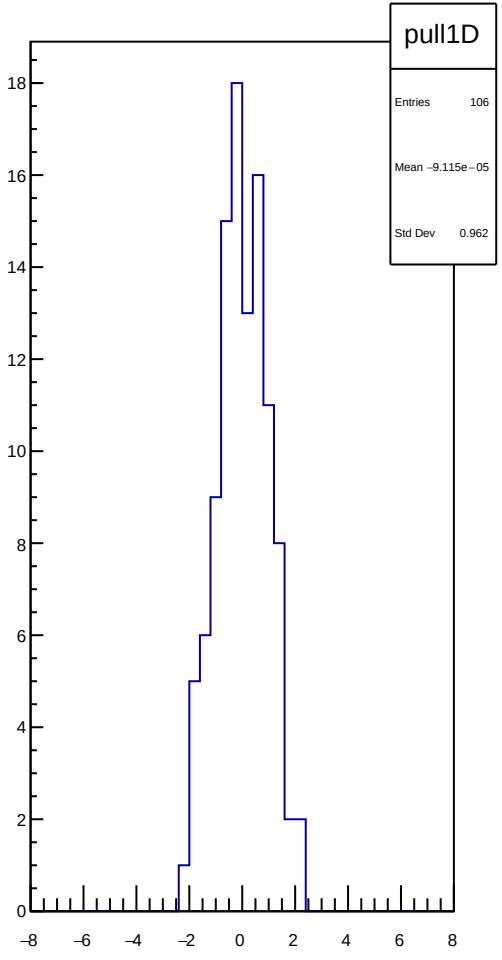

cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 3.713e+04 / 105
p0 72.31 ± 0.05131
180
160
140
120
100
80
60

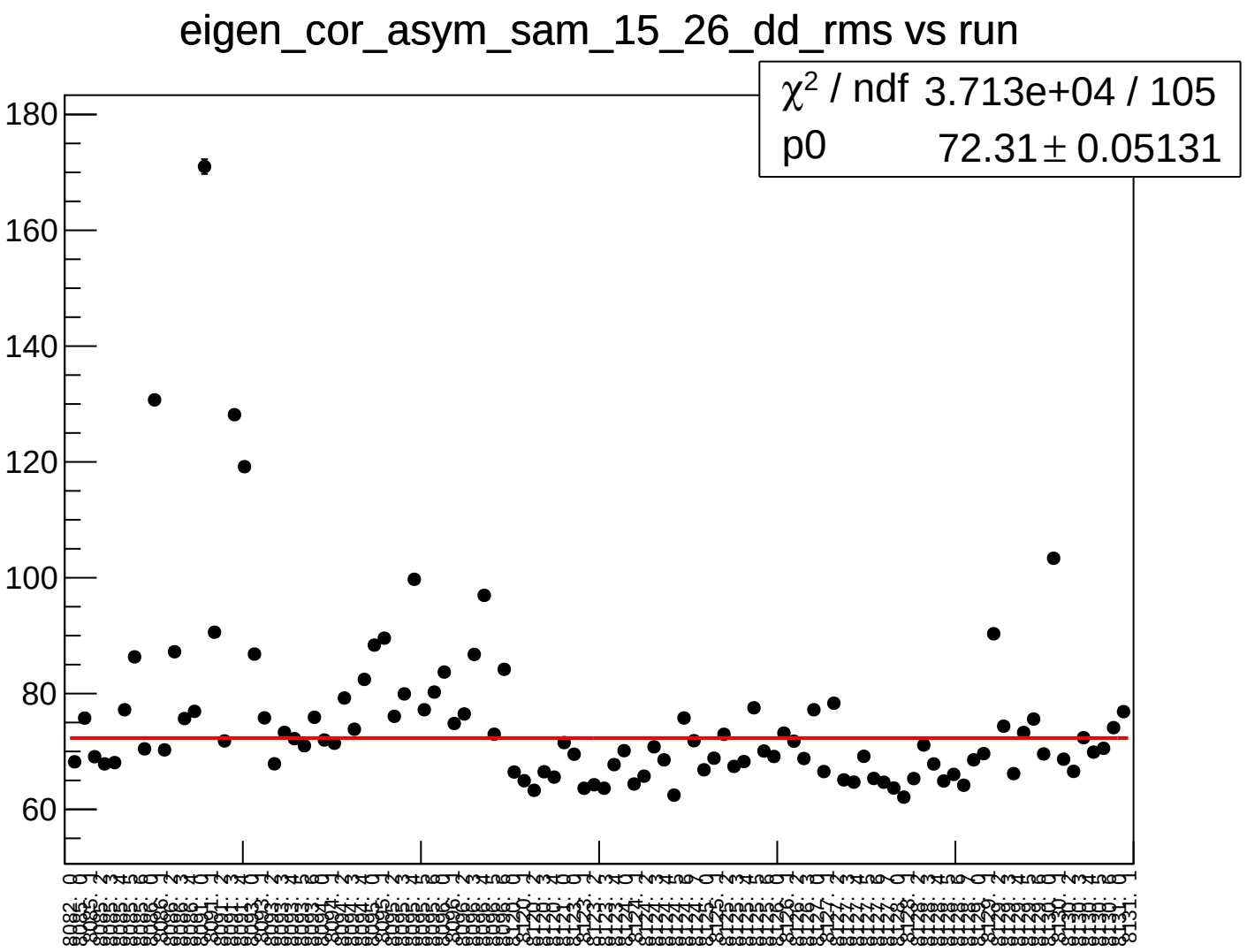

asym_sam_15_26_dd_cor_correction_mean vs run
χ² / ndf 78.57 / 105
p0 1005 ± 843.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 106
Mean −86.29
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

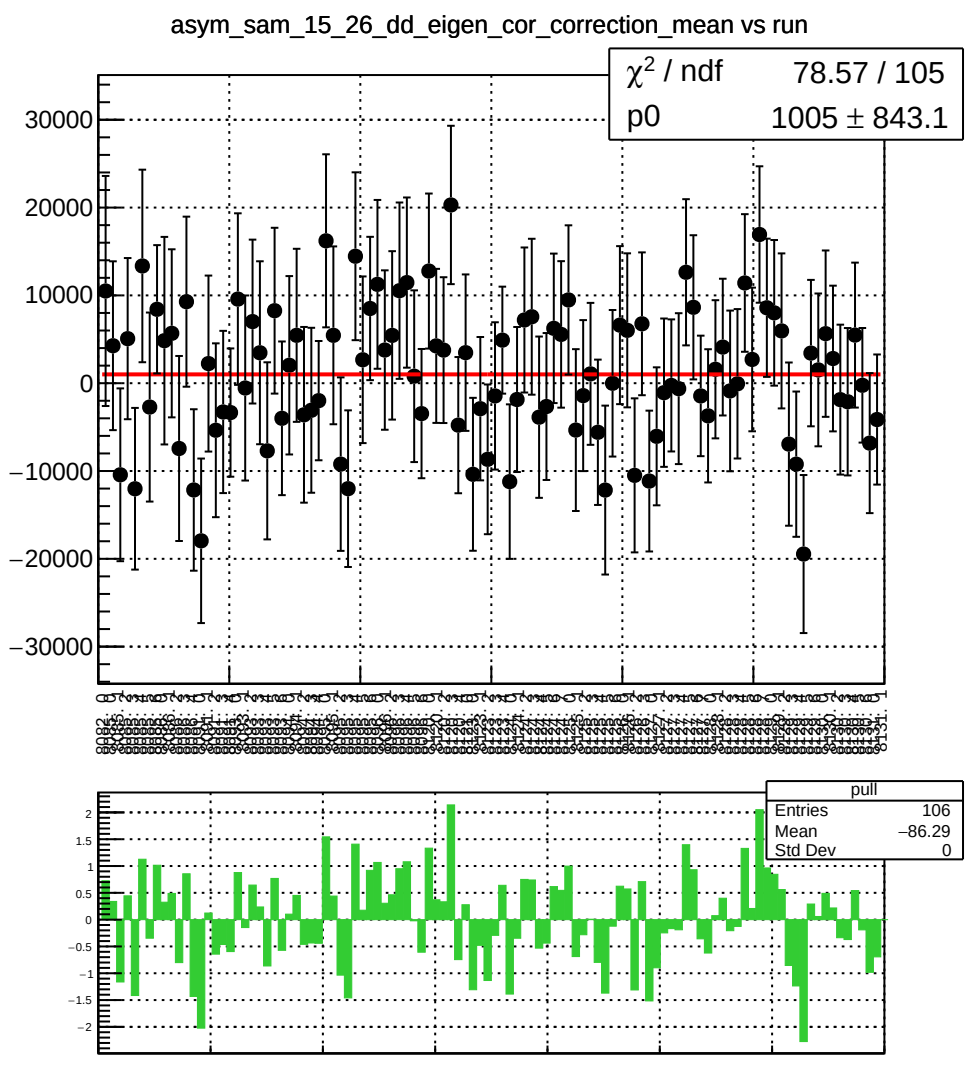

pull1D
Entries 106
Mean 0.004336
Std Dev 0.8609
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

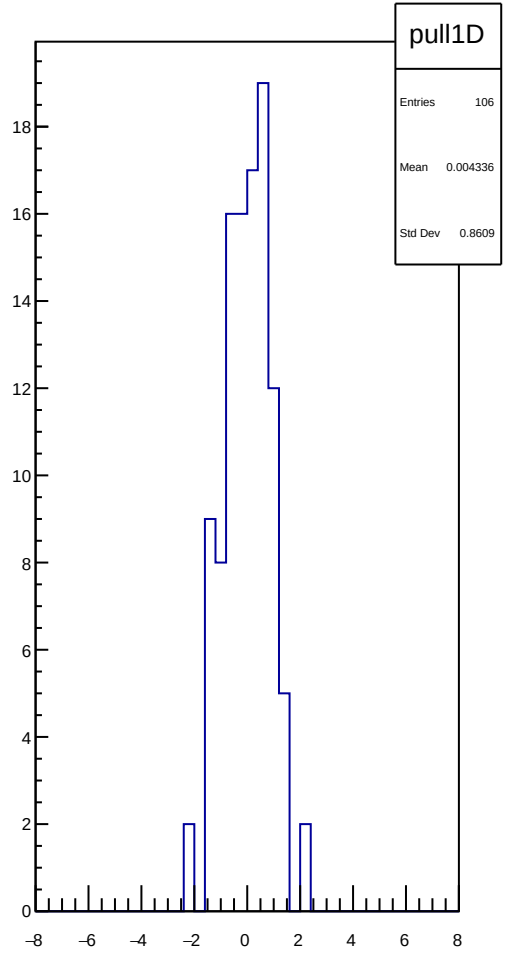

asym_sam_15_26_dd_cor_correction_rms vs run
χ² / ndf 1.56e+04 / 105
p0 844.7 ± 0.5962
1100
1000
900
800
700

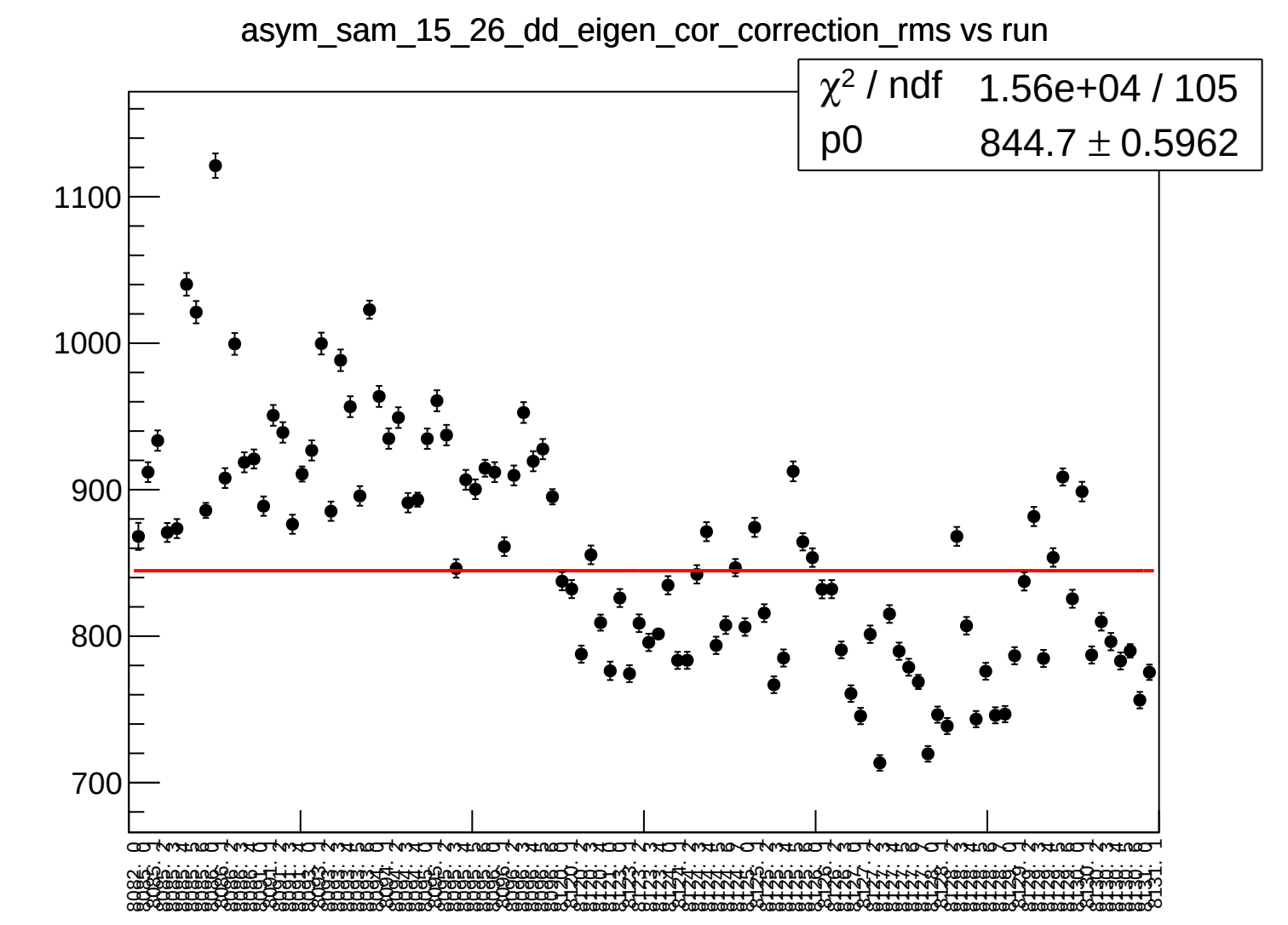

eigen_cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 98.09 / 105
p0 79.57 ± 72.57
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 106
Mean −3.131e+04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

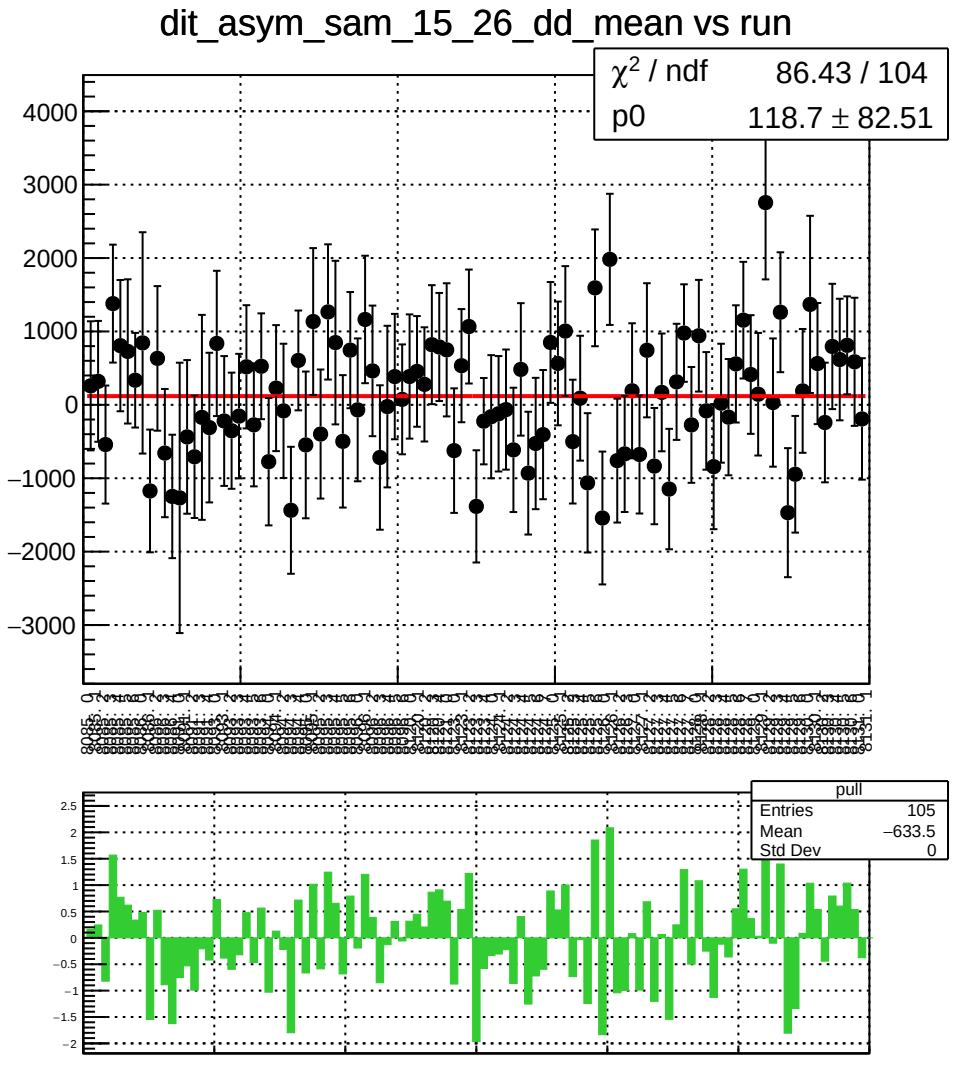

pull1D
Entries 106
Mean −9.115e−05
Std Dev 0.962
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

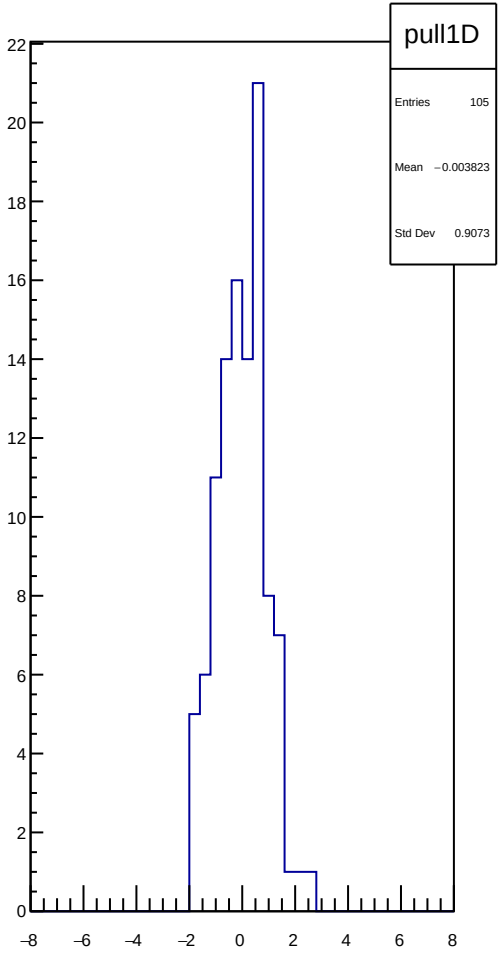

eigen_cor_asym_sam_15_26_dd_rms vs run
χ² / ndf 3.713e+04 / 105
p0 72.31 ± 0.05131
180
160
140
120
100
80
60

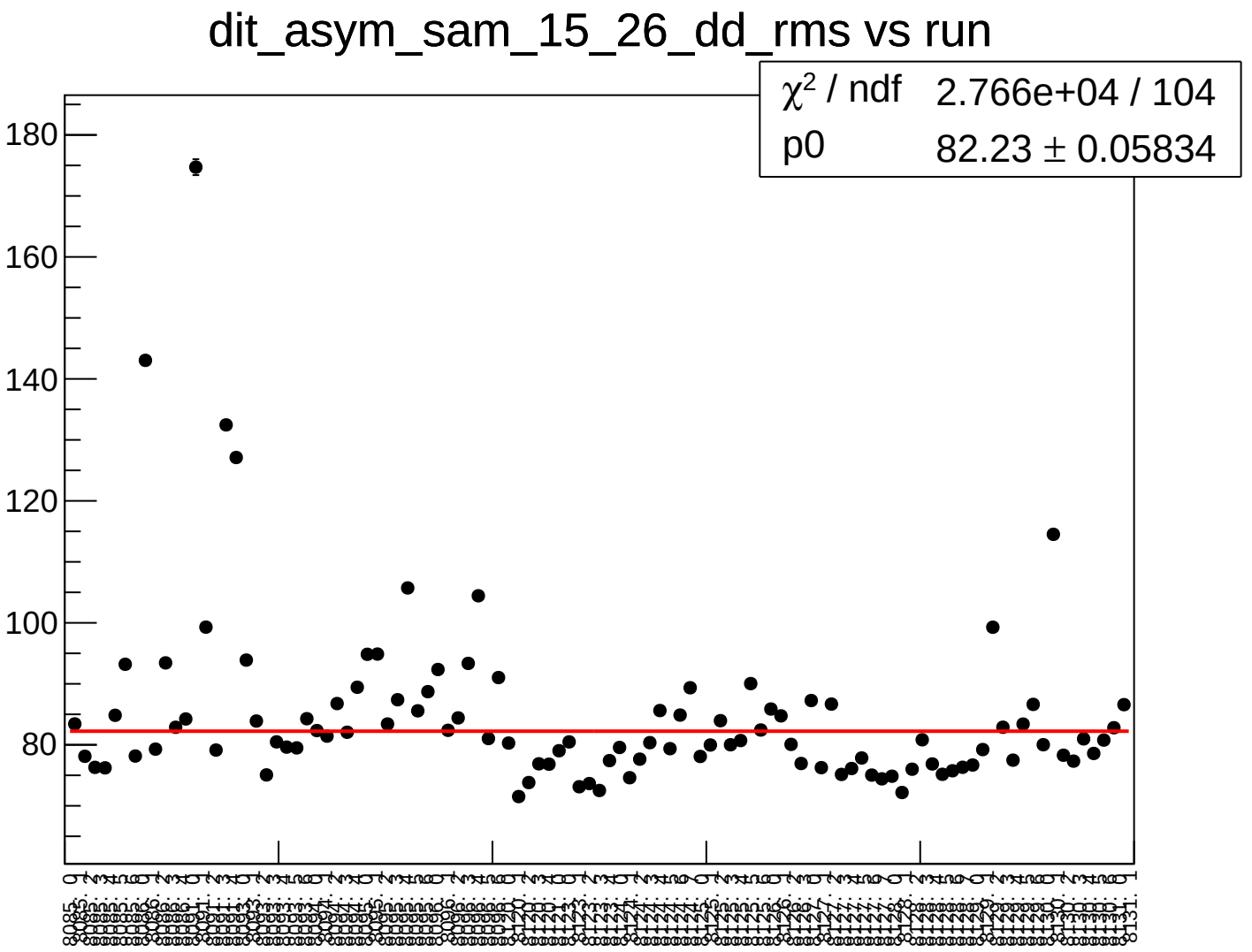

asym_sam_15_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 78.57 / 105
p0 1005 ± 843.1
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 106
Mean −86.29
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

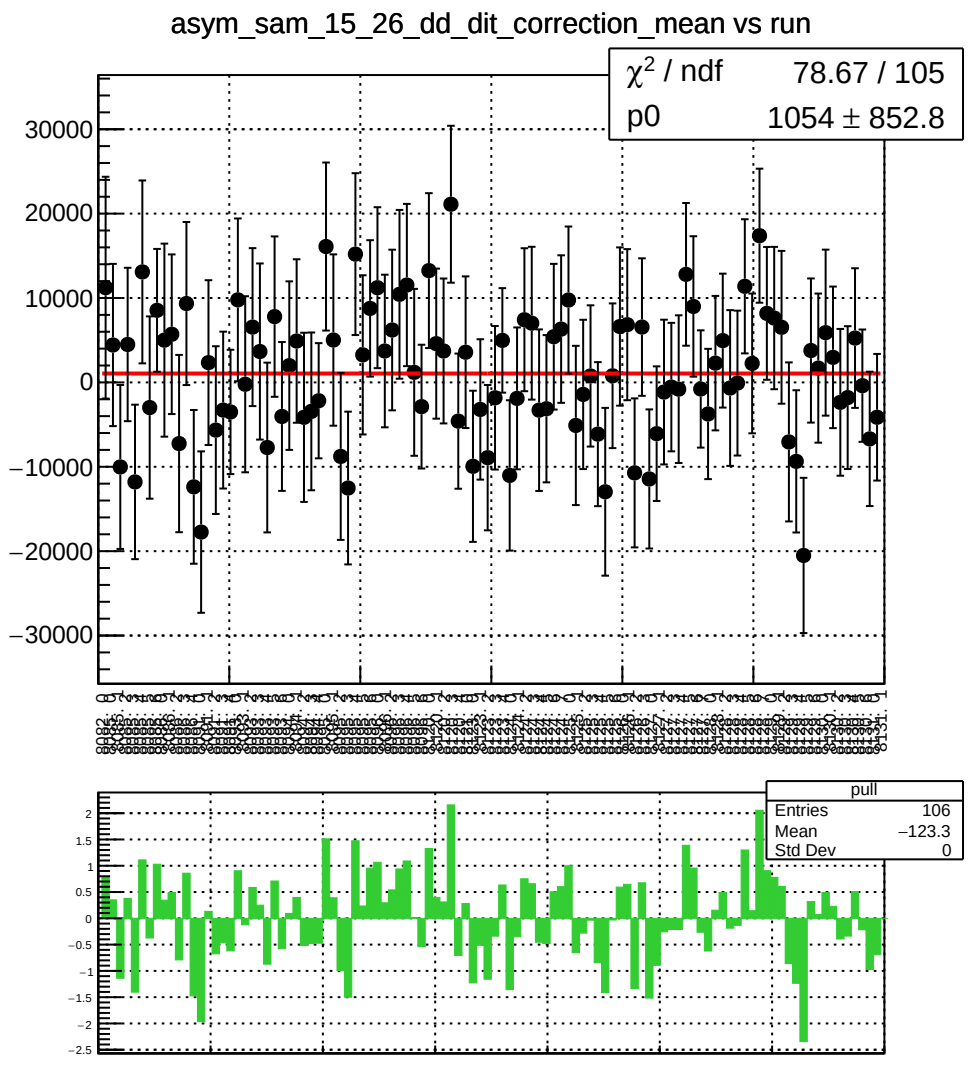

pull1D
Entries 106
Mean 0.004336
Std Dev 0.8609
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

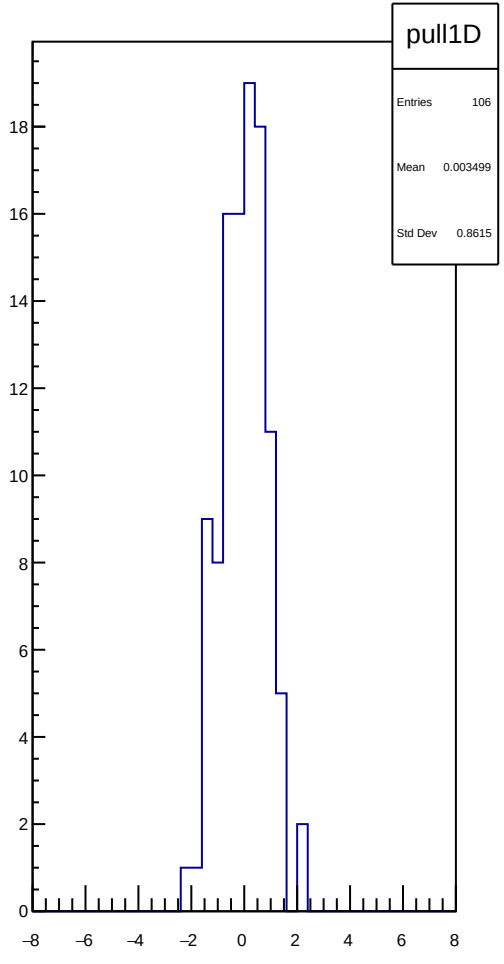

asym_sam_15_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.56e+04 / 105
p0 844.7 ± 0.5962
1100
1000
900
800
700

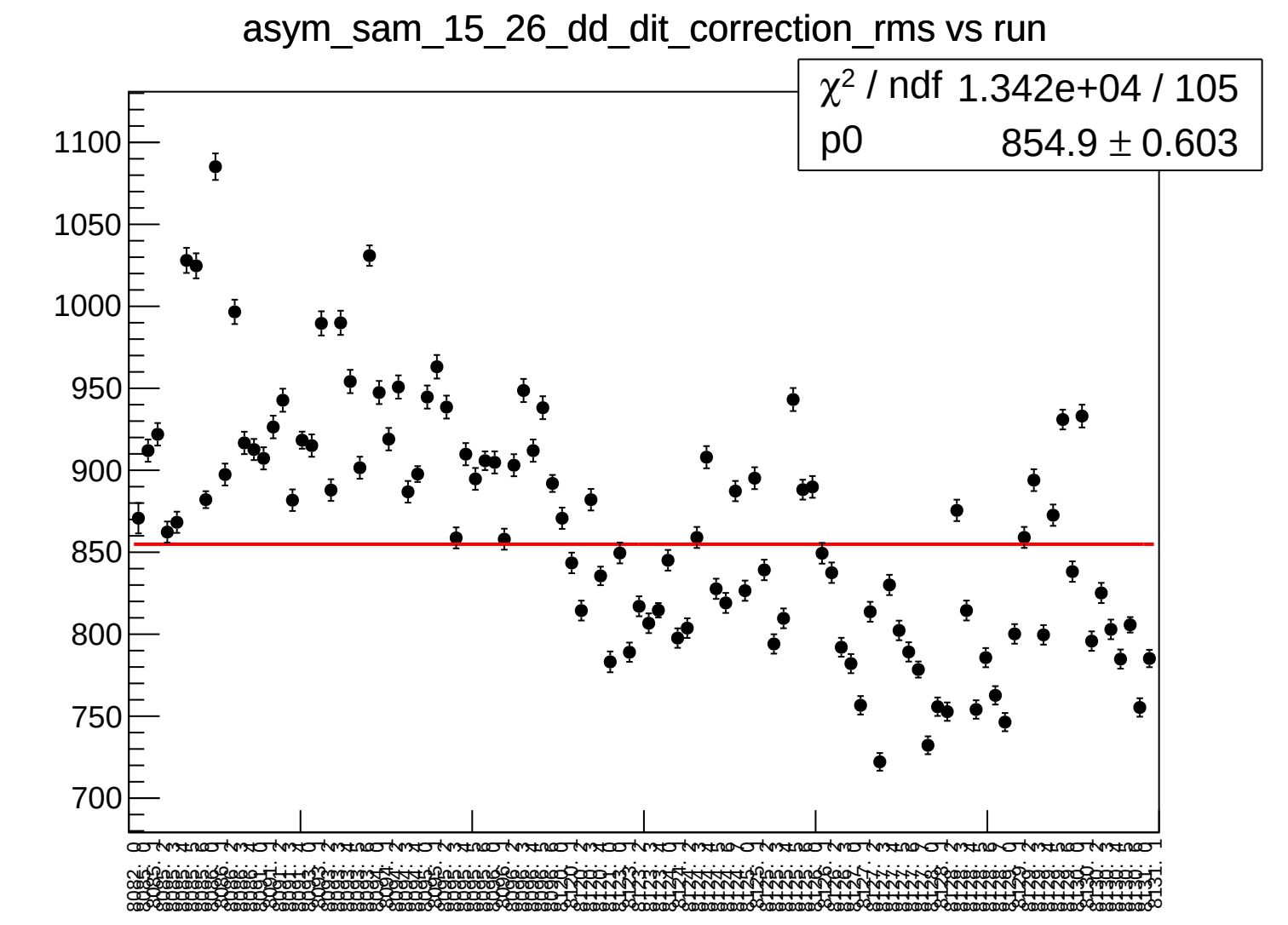

dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 86.43 / 104
p0 118.7 ± 82.51
pull
Entries 105
Mean −633.5
Std Dev 0

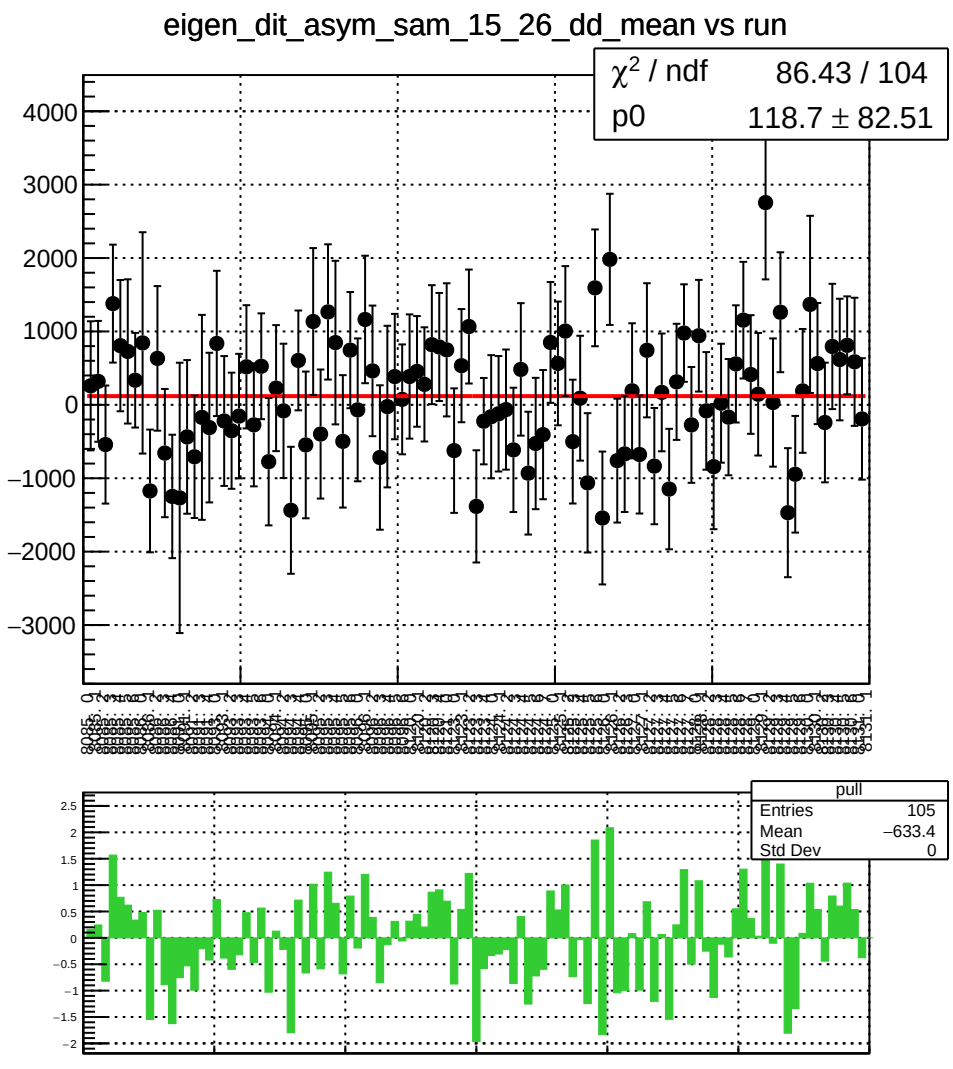

pull1D
Entries 105
Mean −0.003823
Std Dev 0.9073

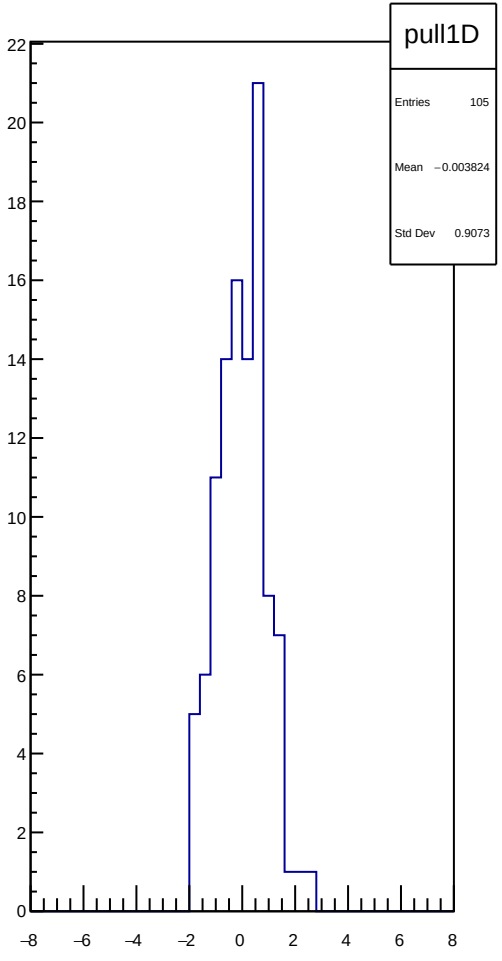

dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 2.766e+04 / 104
p0 82.23 ± 0.05834
180
160
140
120
100
80

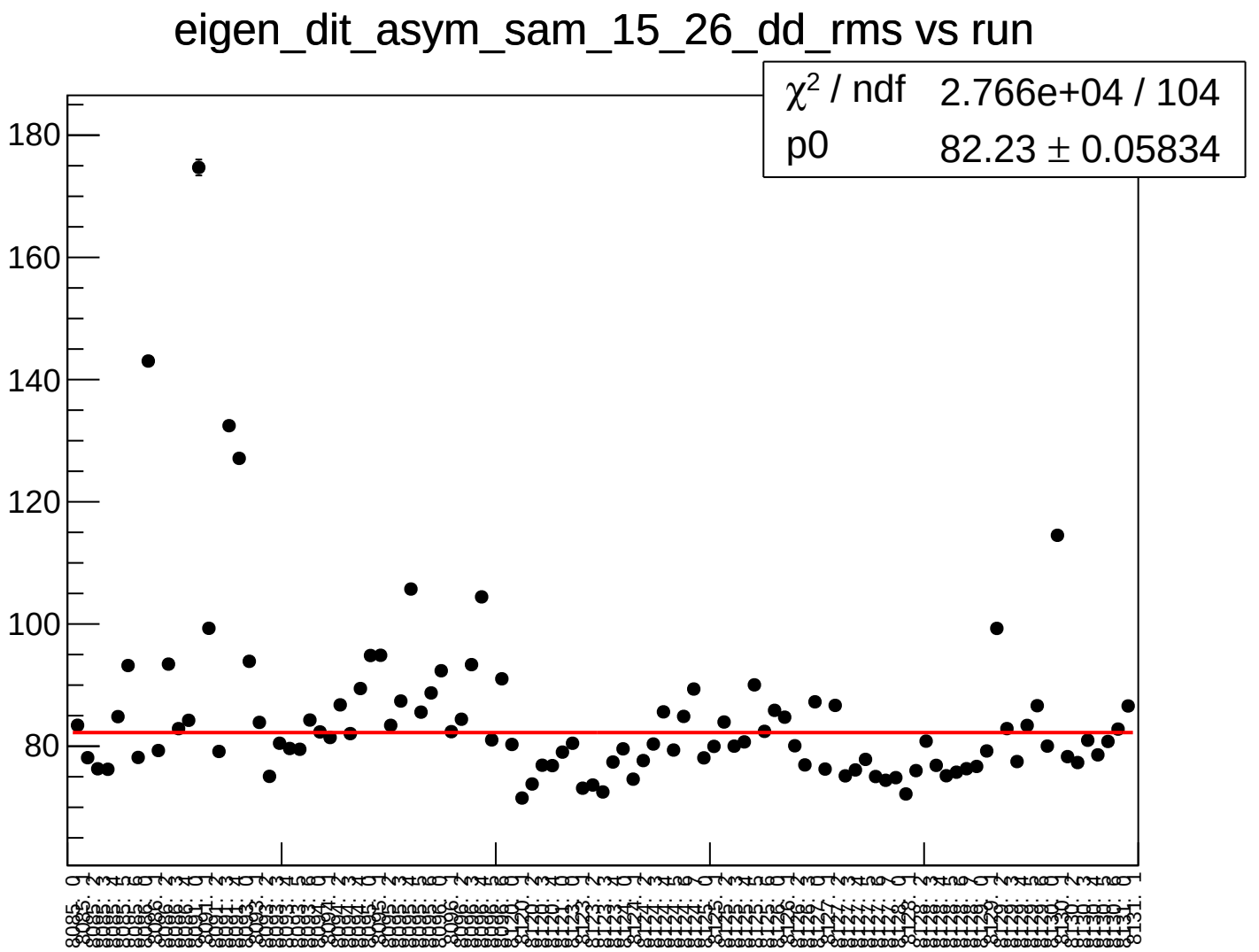

asym_sam_15_26_dd_dit_correction_mean vs run
χ² / ndf 78.67 / 105
p0 1054 ± 852.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 106
Mean −123.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

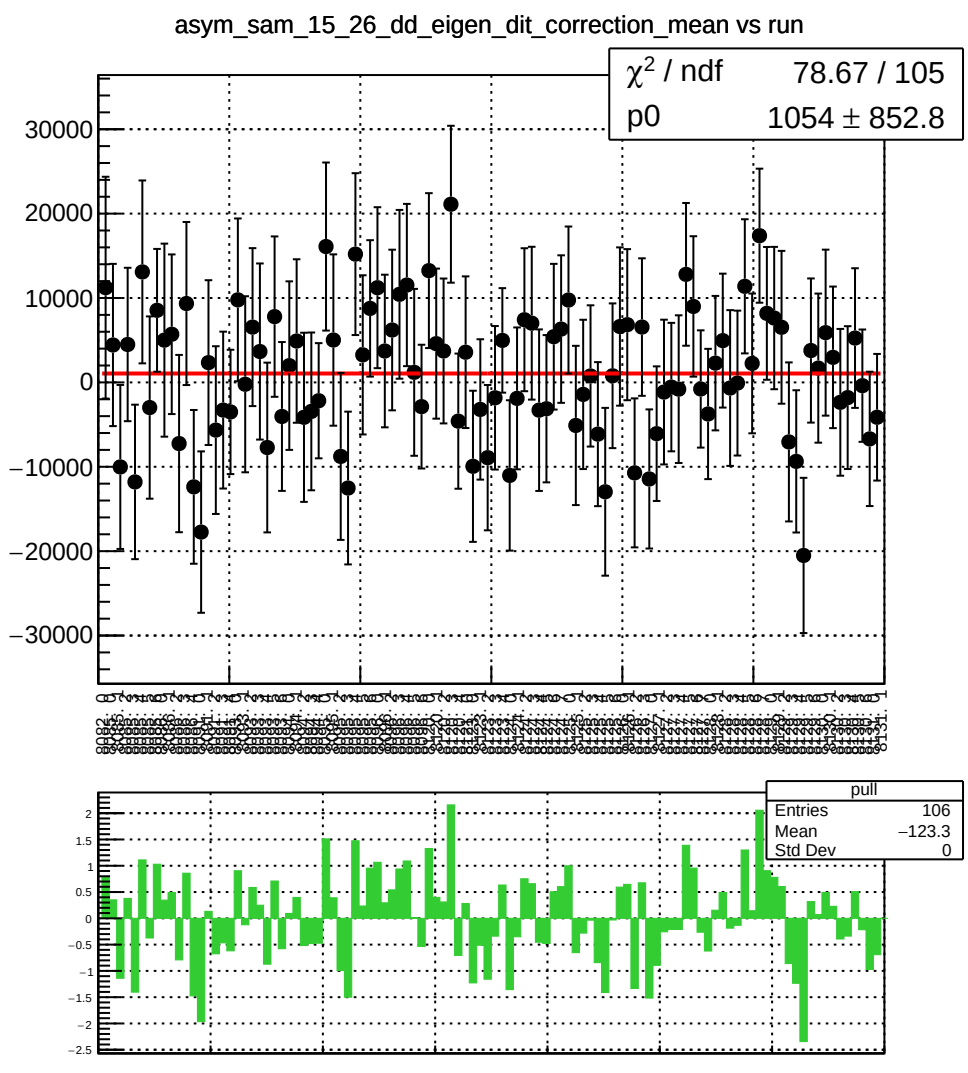

pull1D
Entries 106
Mean 0.003499
Std Dev 0.8615
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

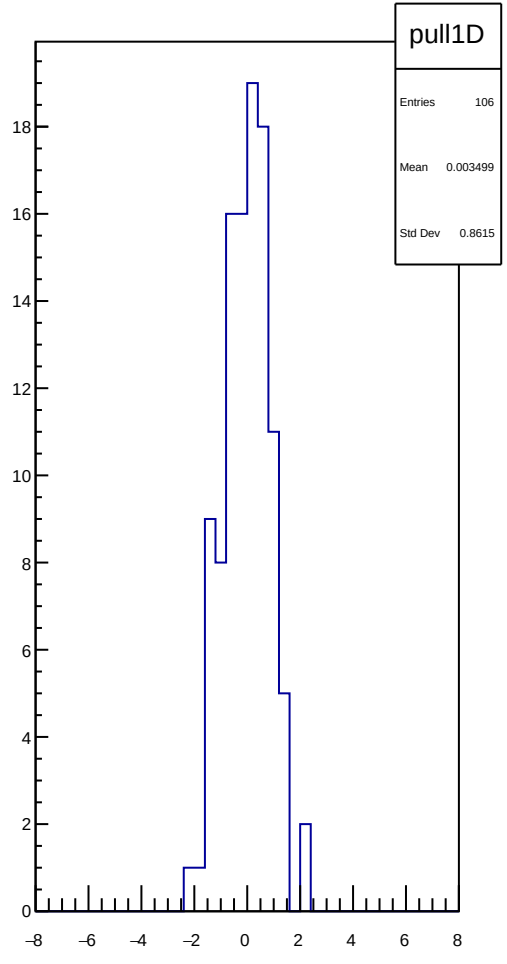

asym_sam_15_26_dd_dit_correction_rms vs run
χ² / ndf 1.342e+04 / 105
p0 854.9 ± 0.603
1100
1050
1000
950
900
850
800
750
700

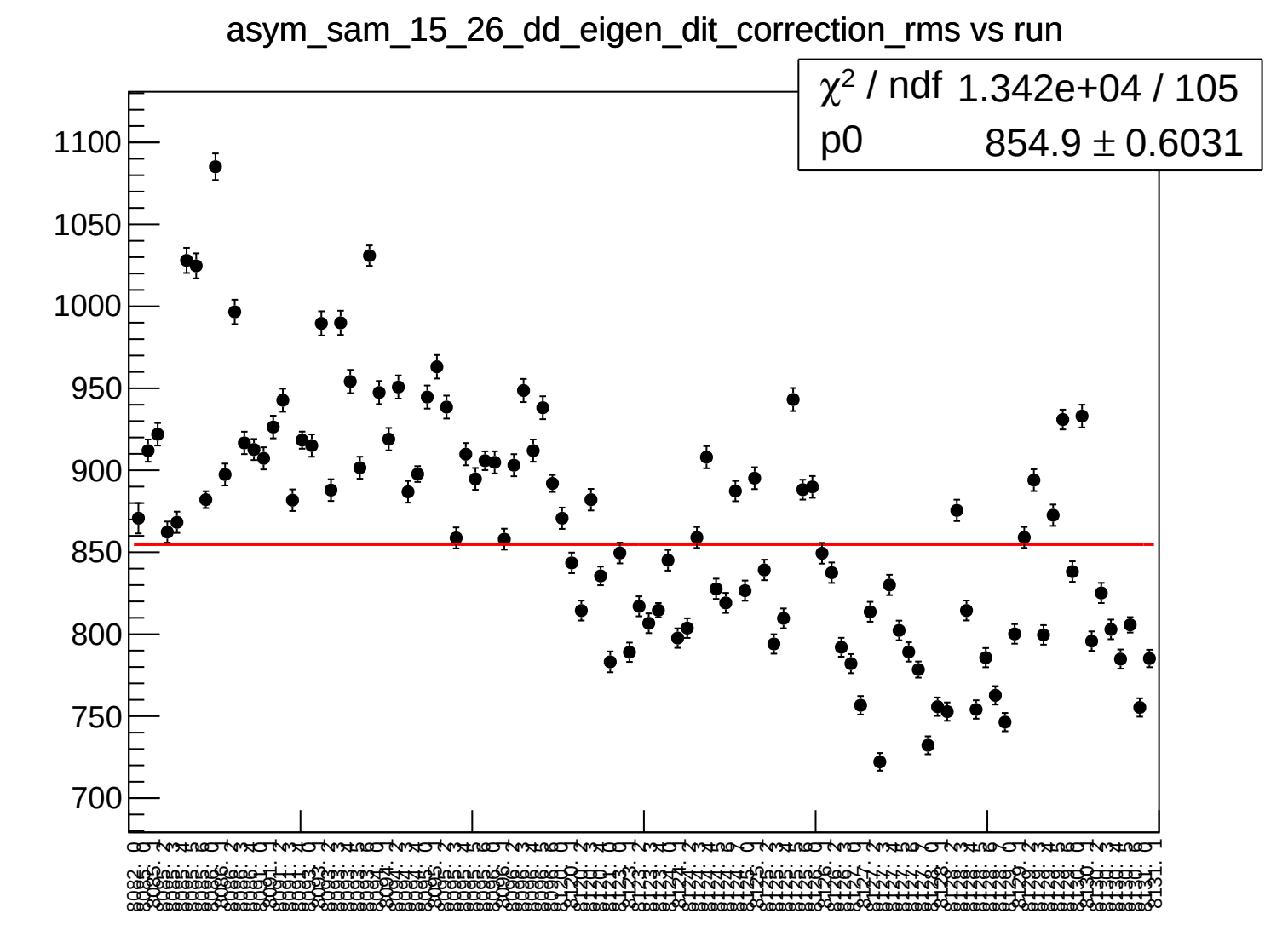

eigen_dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 86.43 / 104
p0 118.7 ± 82.51
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 105
Mean −633.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

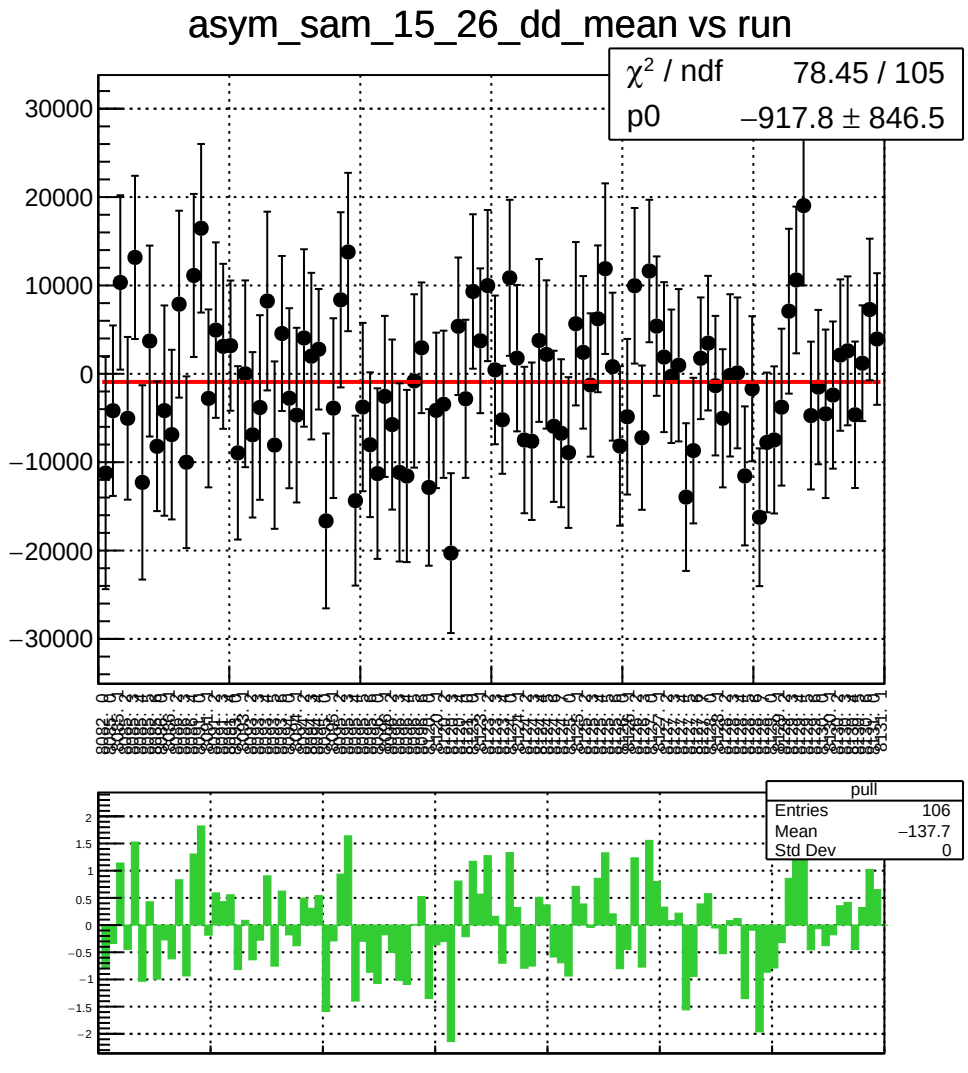

pull1D
Entries 105
Mean −0.003824
Std Dev 0.9073
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

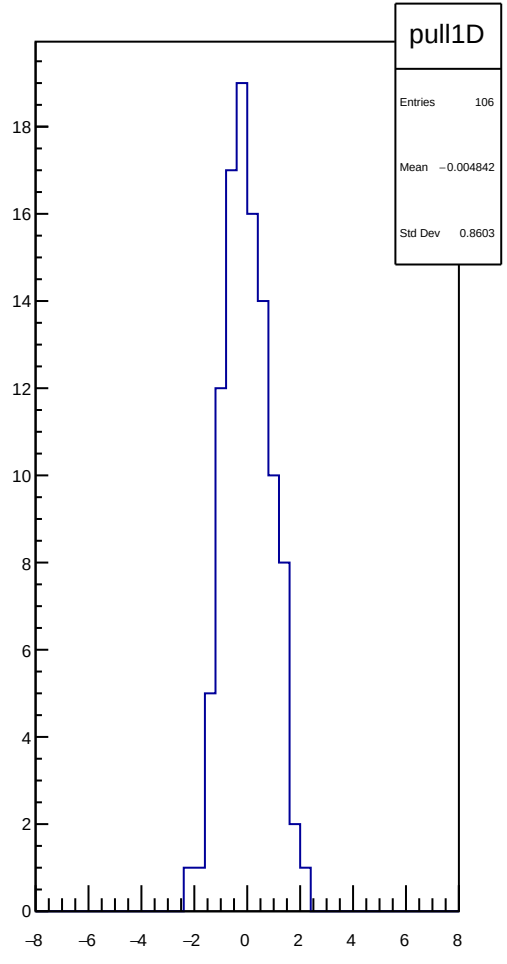

eigen_dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 2.766e+04 / 104
p0 82.23 ± 0.05834
180
160
140
120
100
80

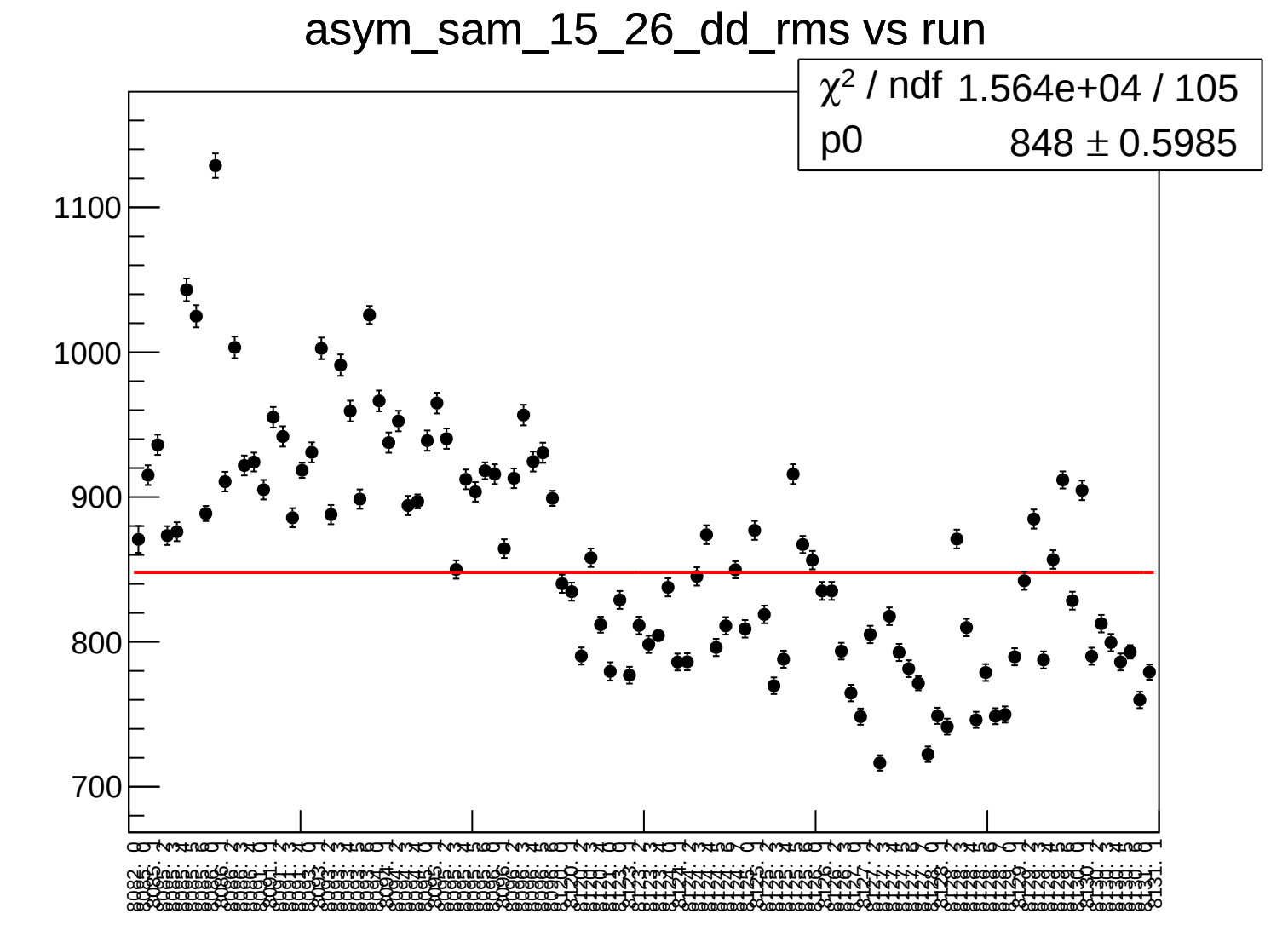

asym_sam_15_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 78.67 / 105
p0 1054 ± 852.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 106
Mean −123.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

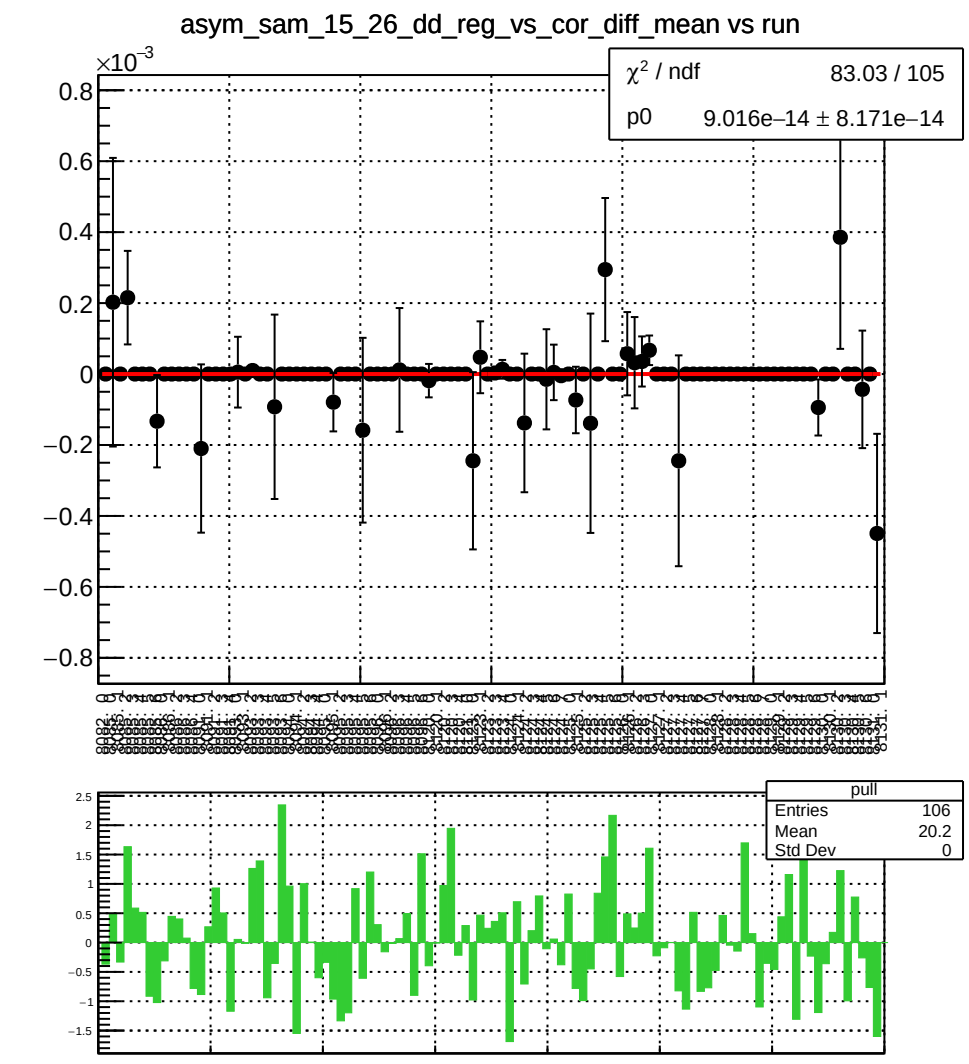

pull1D
Entries 106
Mean 0.003499
Std Dev 0.8615
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

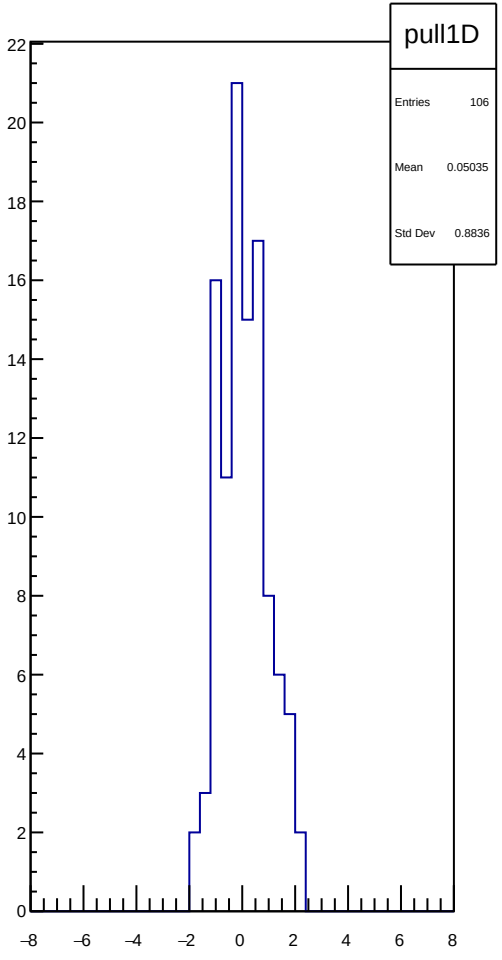

asym_sam_15_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.342e+04 / 105
p0 854.9 ± 0.6031
1100
1050
1000
950
900
850
800
750
700

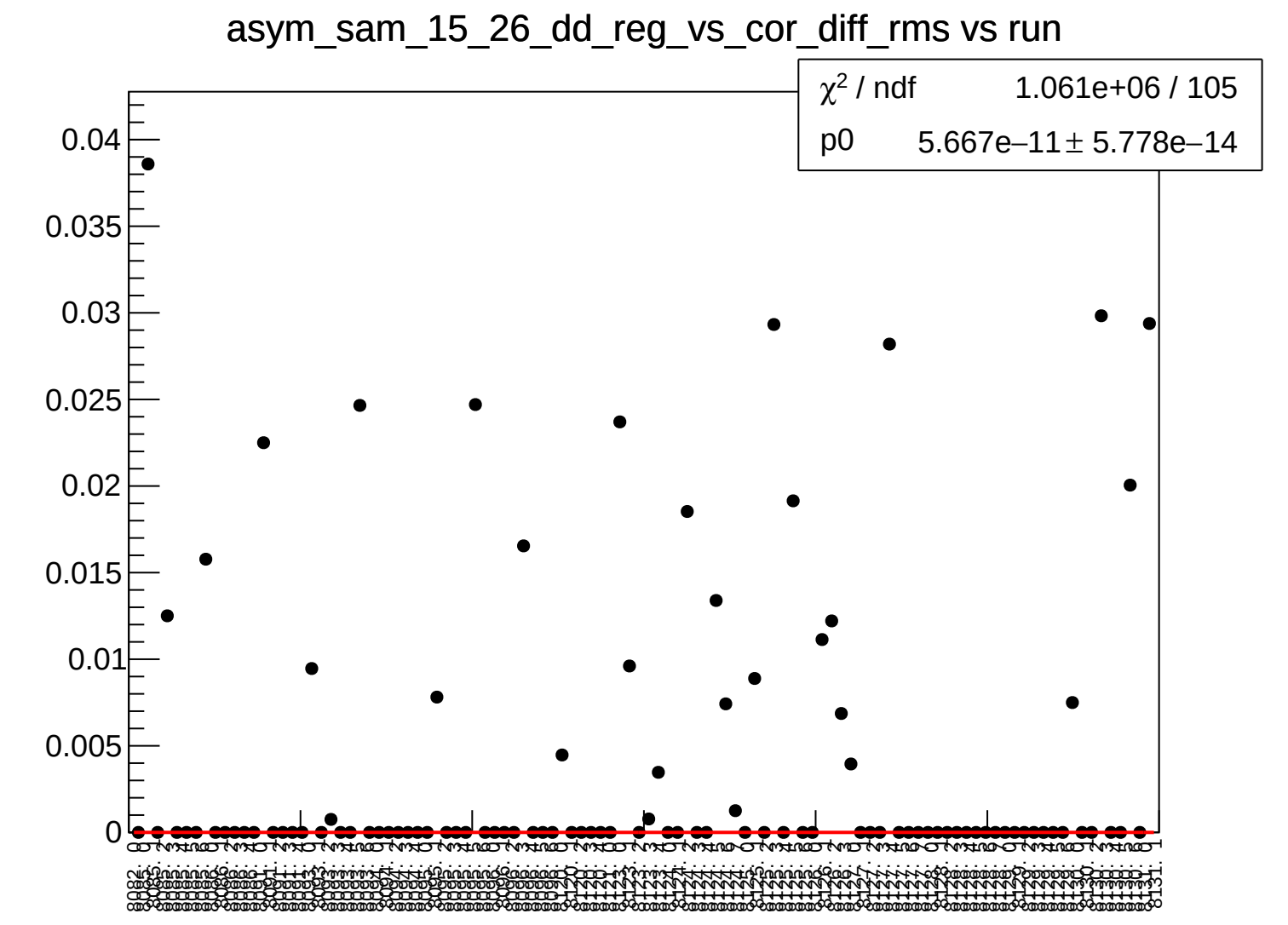

asym_sam_15_26_dd_mean vs run
χ² / ndf 78.45 / 105
p0 −917.8 ± 846.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 106
Mean −137.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

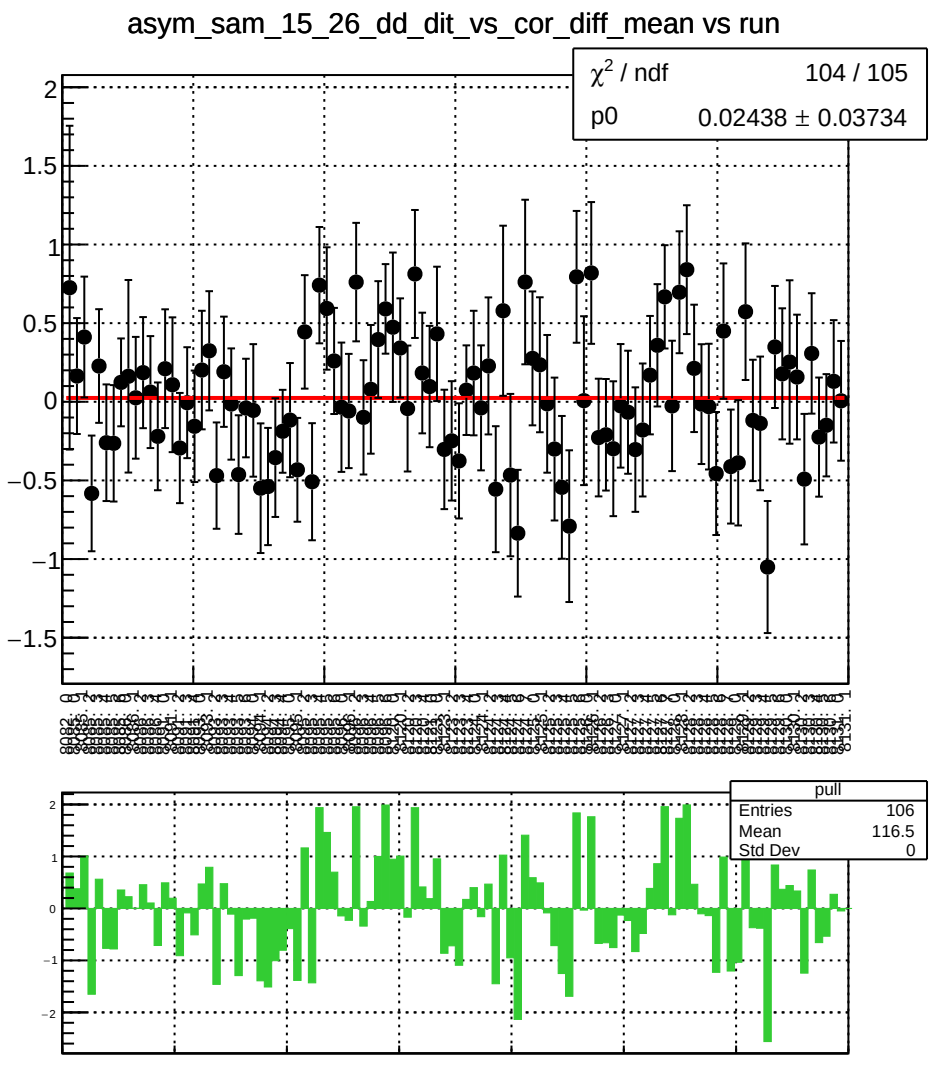

pull1D
Entries 106
Mean −0.004842
Std Dev 0.8603
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

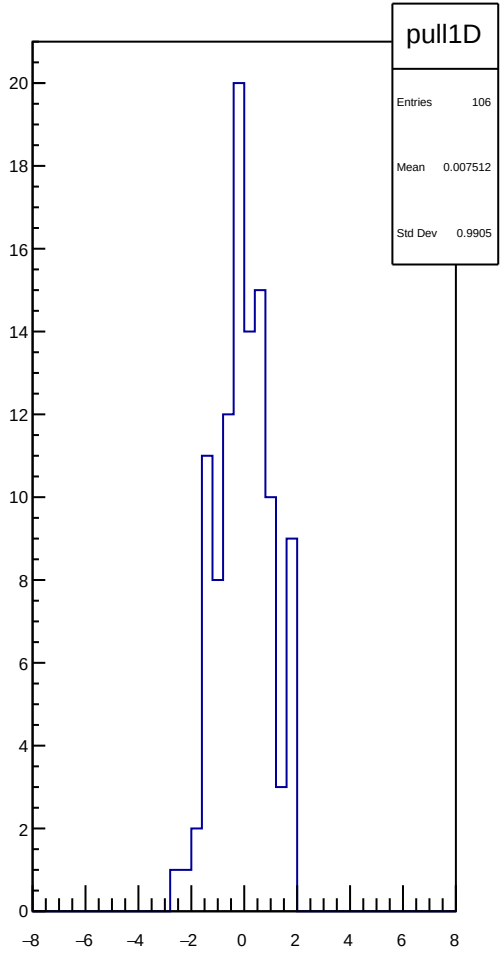

asym_sam_15_26_dd_rms vs run
χ² / ndf 1.564e+04 / 105
p0 848 ± 0.5985
1100
1000
900
800
700

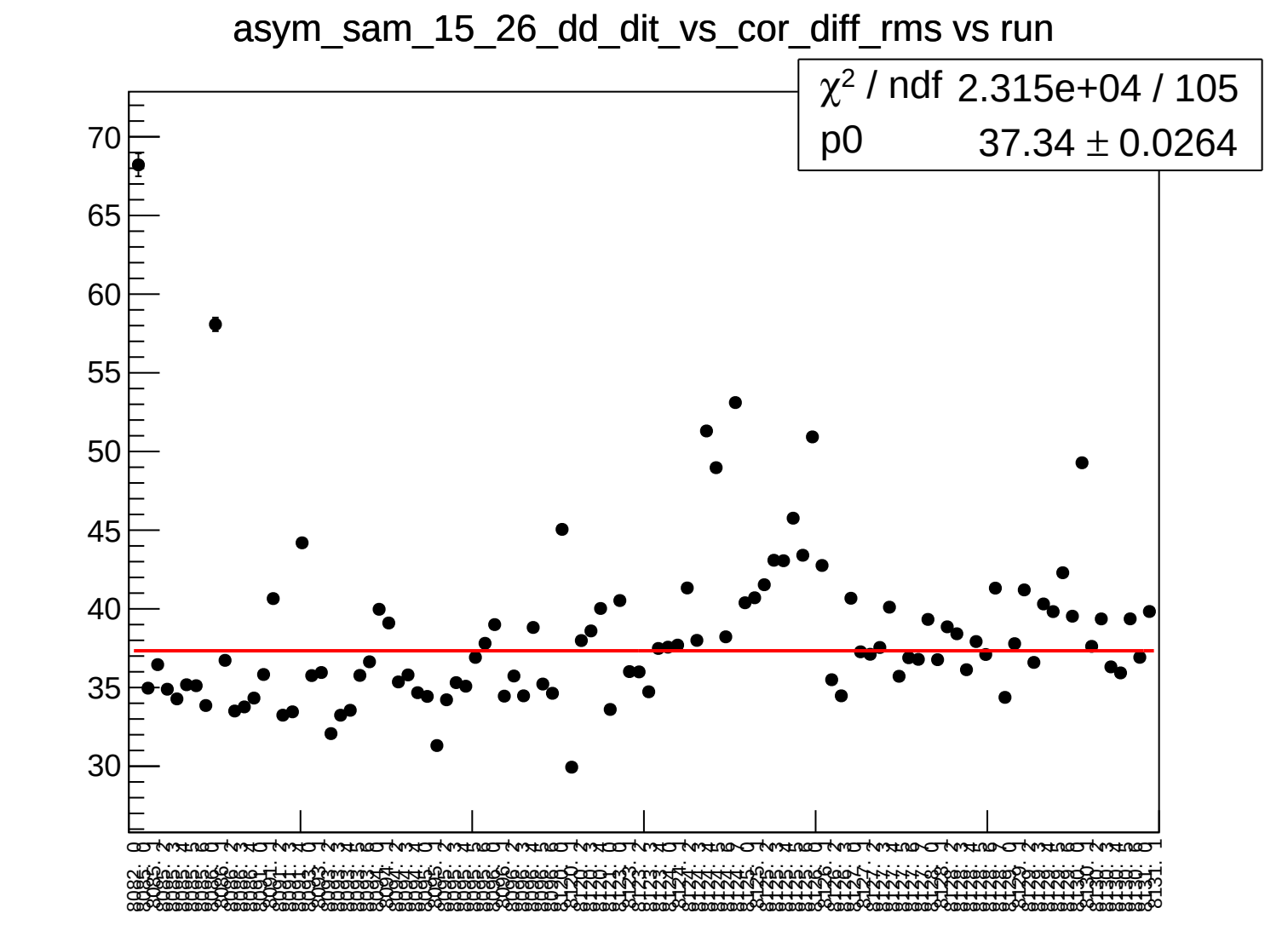

asym_sam_15_26_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 83.03 / 105
p0 9.016e−14 ± 8.171e−14
pull
Entries 106
Mean 20.2
Std Dev 0

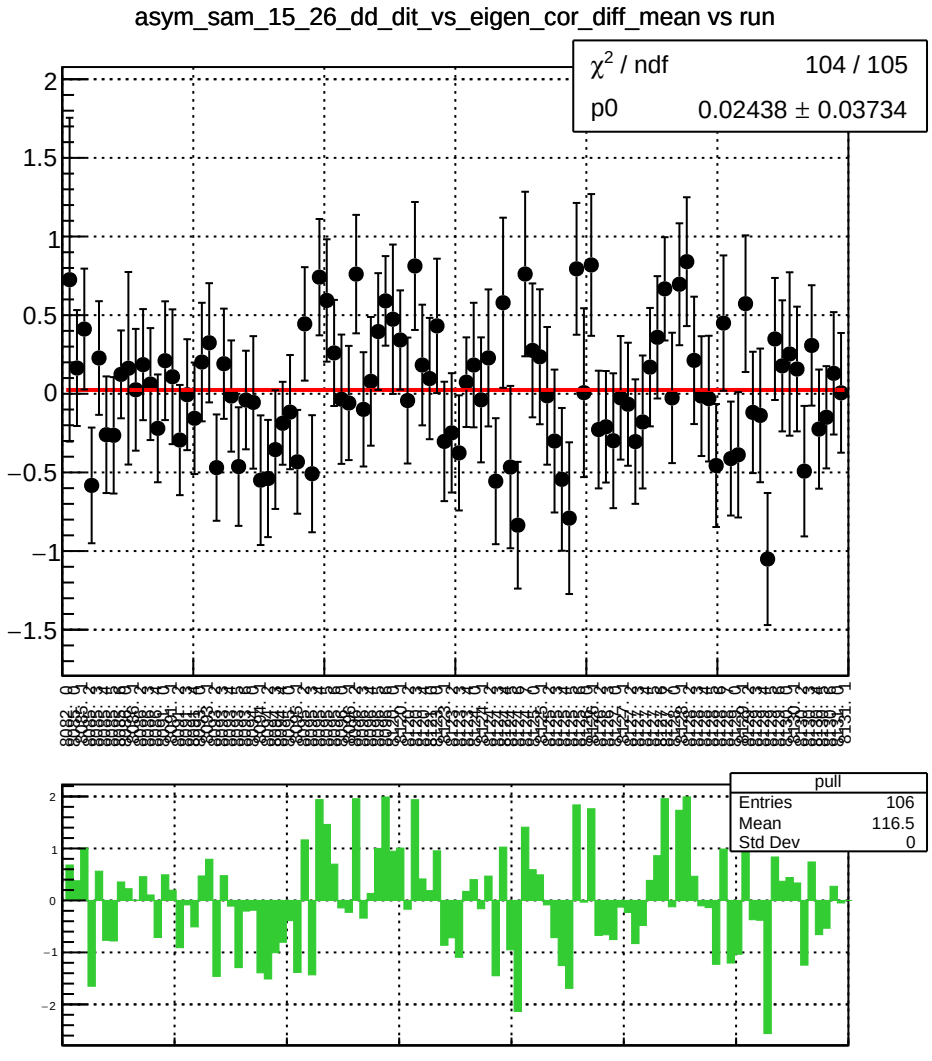

pull1D
Entries 106
Mean 0.05035
Std Dev 0.8836

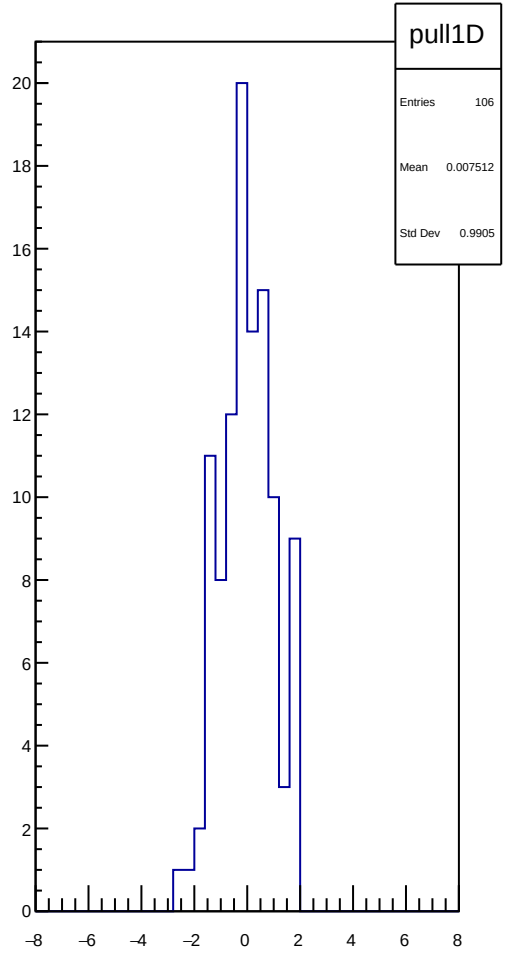

asym_sam_15_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.061e+06 / 105
p0 5.667e−11 ± 5.778e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

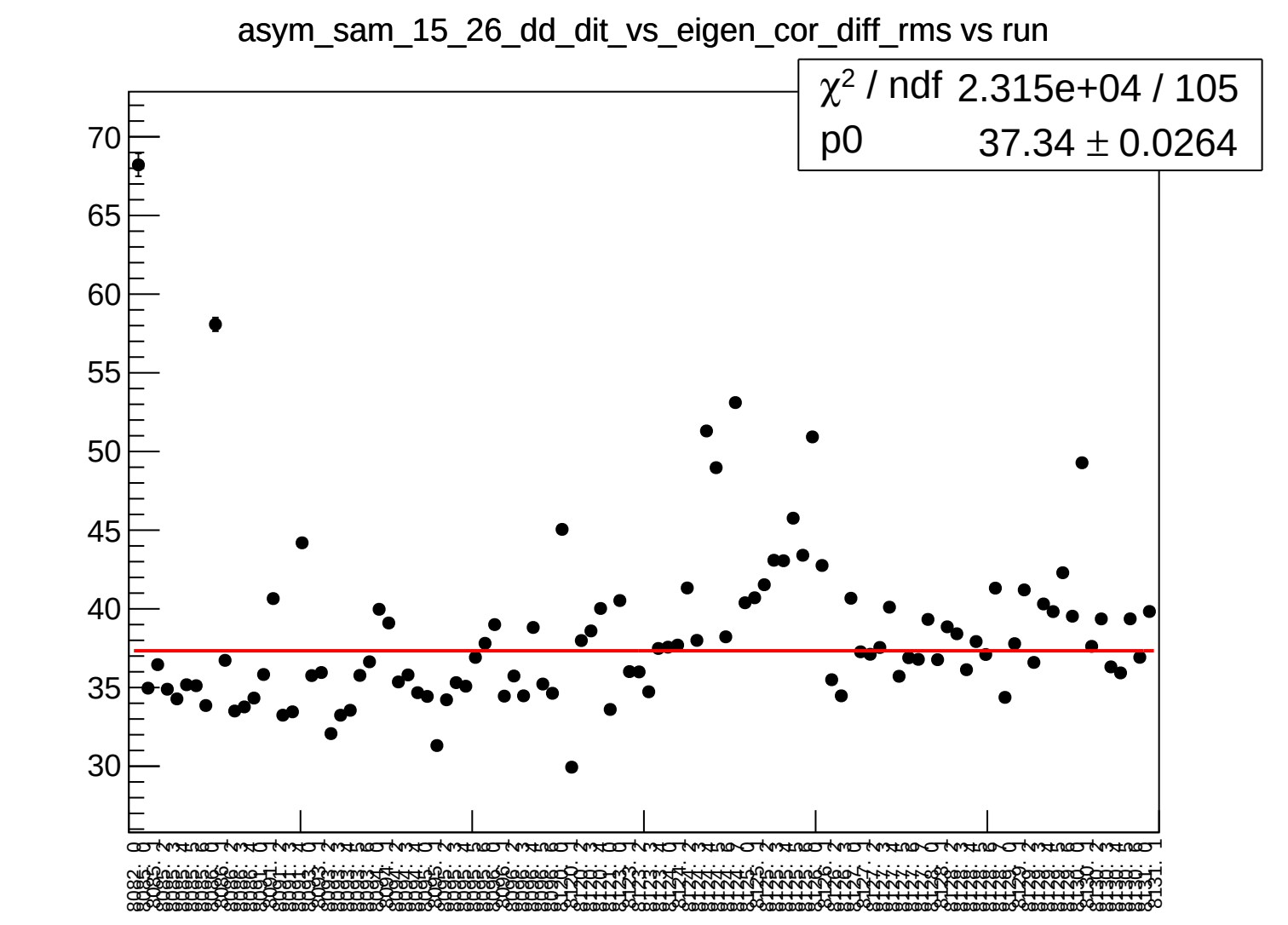

asym_sam_15_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 104 / 105
p0 0.02438 ± 0.03734
pull
Entries 106
Mean 116.5
Std Dev 0

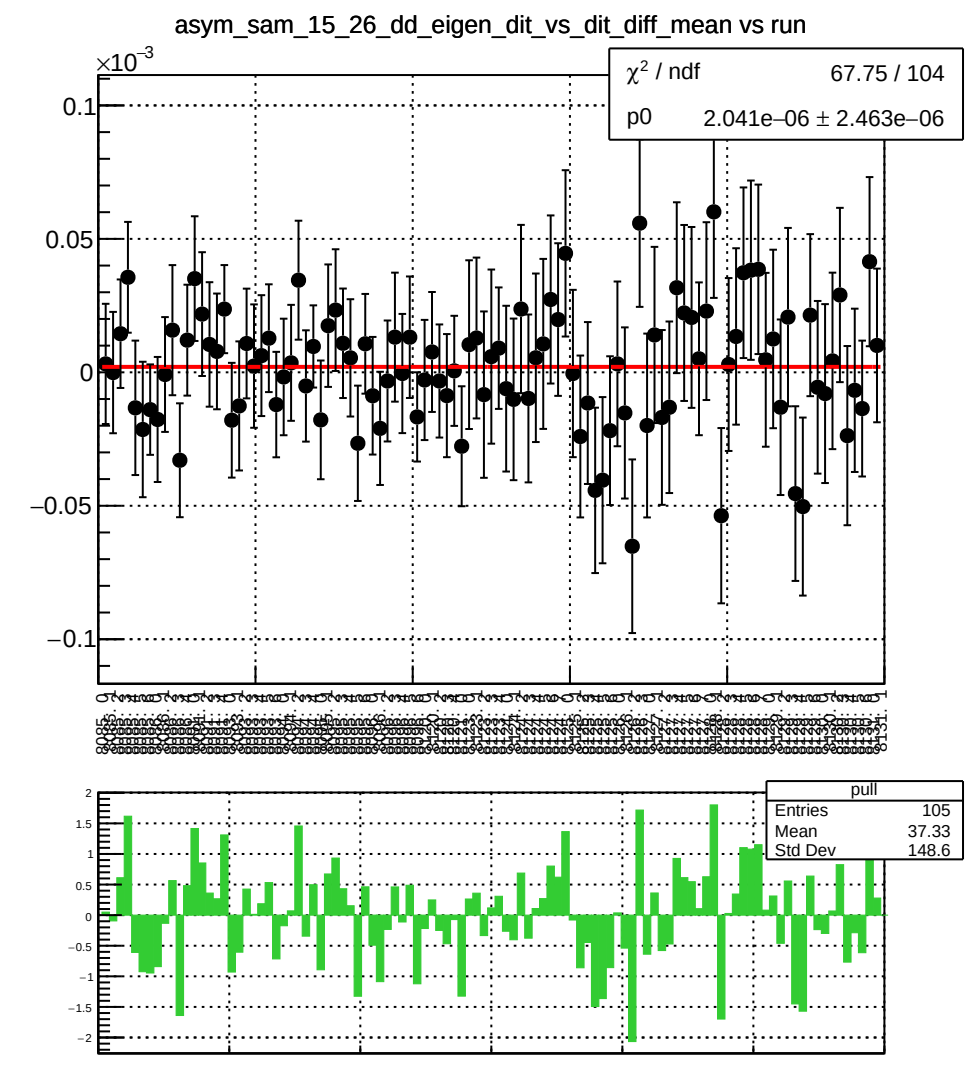

pull1D
Entries 106
Mean 0.007512
Std Dev 0.9905

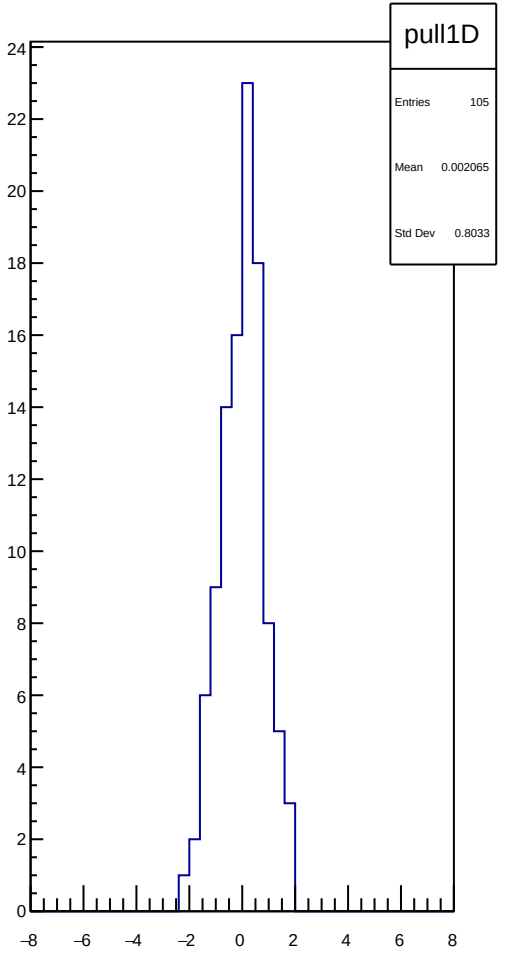

asym_sam_15_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.315e+04 / 105
p0 37.34 ± 0.0264
70
65
60
55
50
45
40
35
30

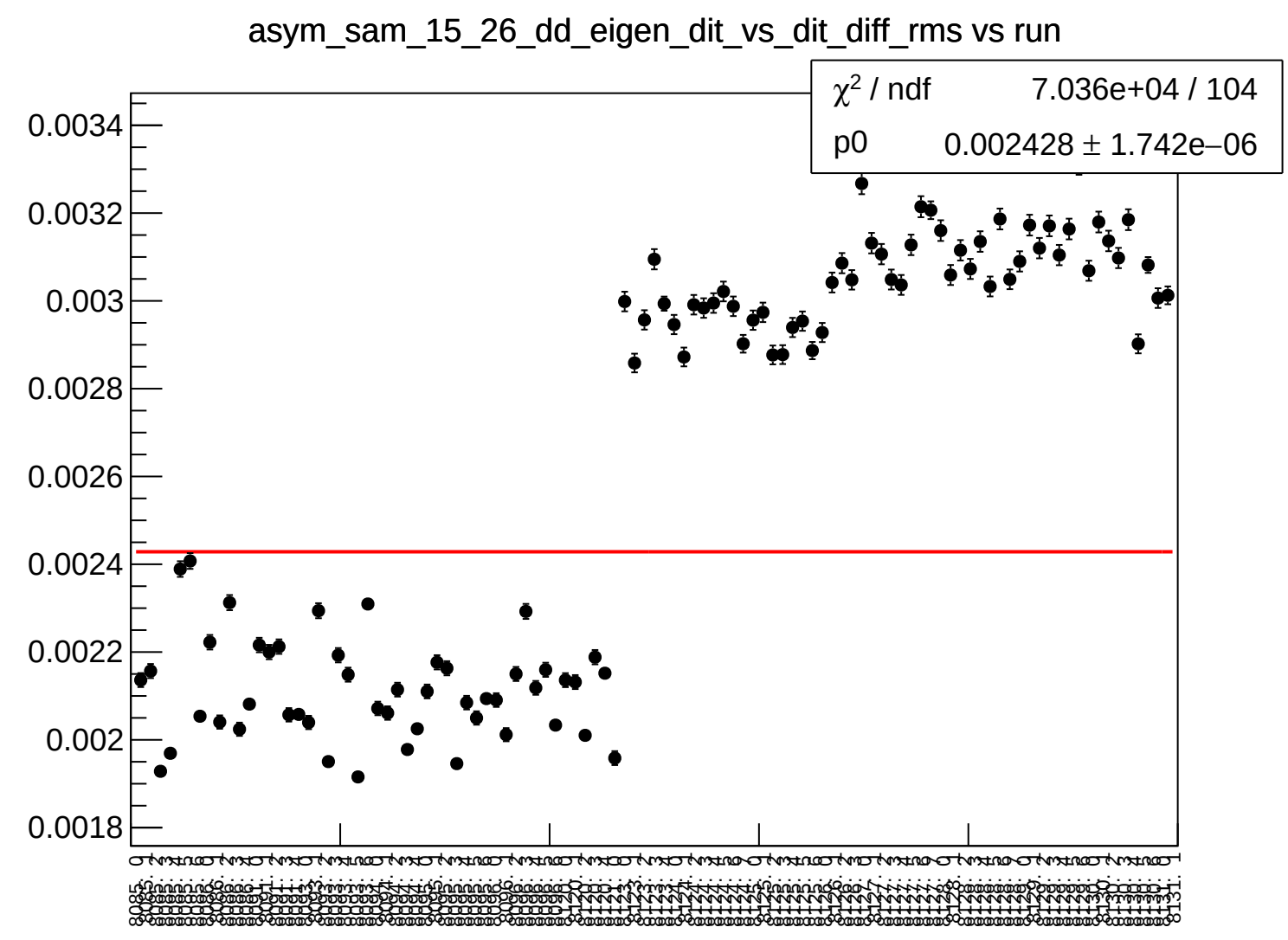

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104 / 105
p0 0.02438 ± 0.03734
pull
Entries 106
Mean 116.5
Std Dev 0

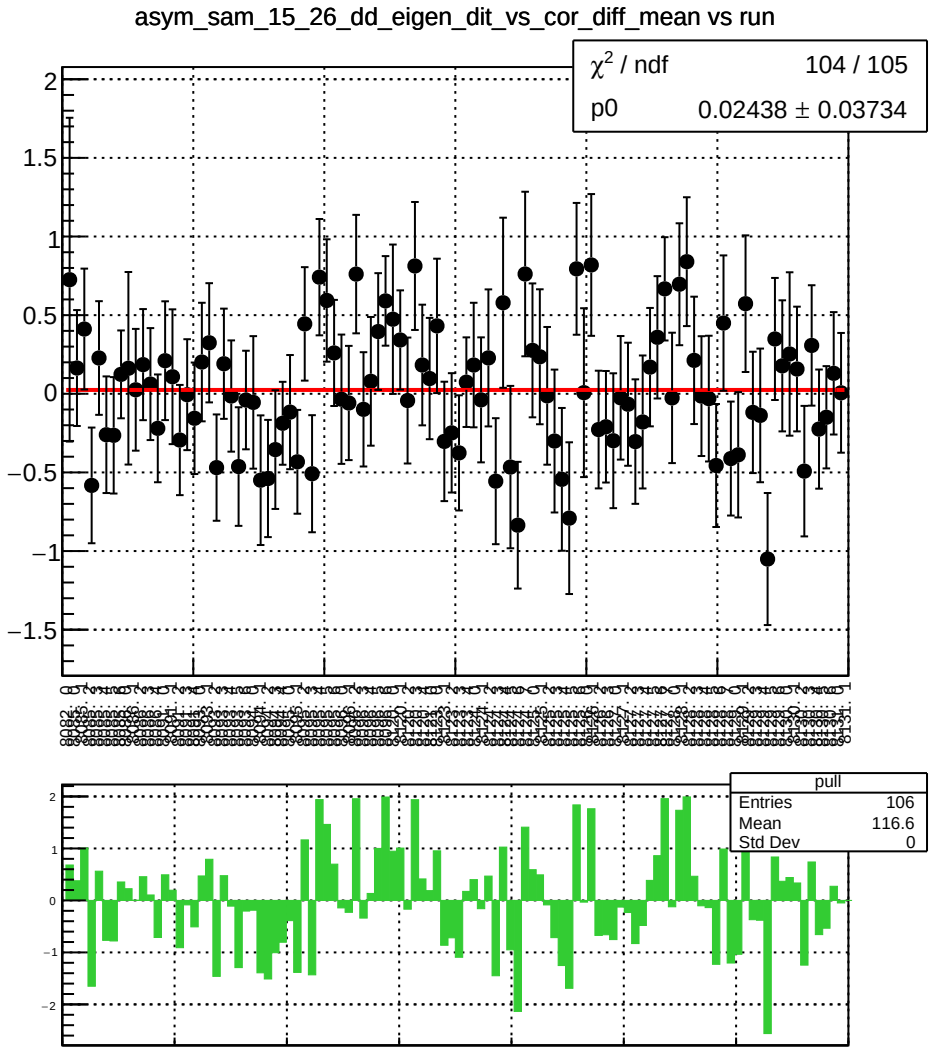

pull1D
Entries 106
Mean 0.007512
Std Dev 0.9905

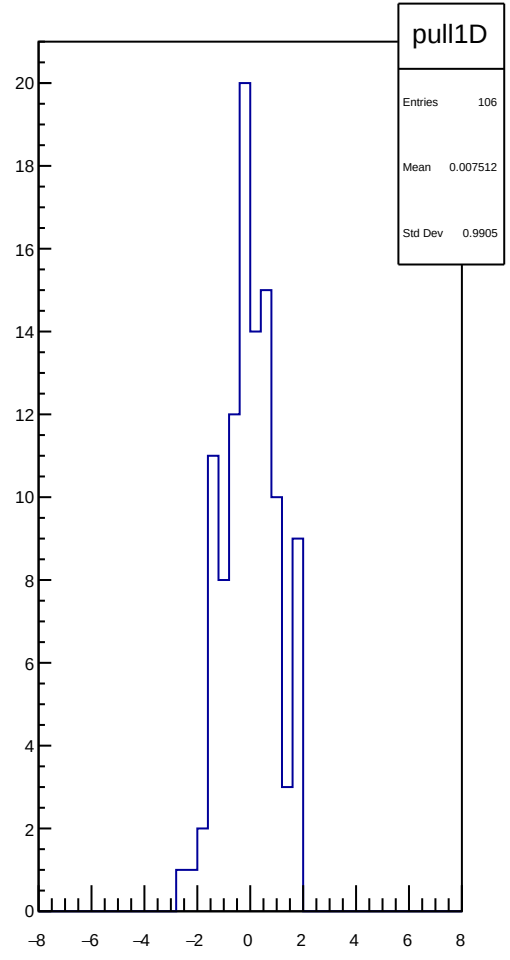

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.315e+04 / 105
p0 37.34 ± 0.0264
70
65
60
55
50
45
40
35
30

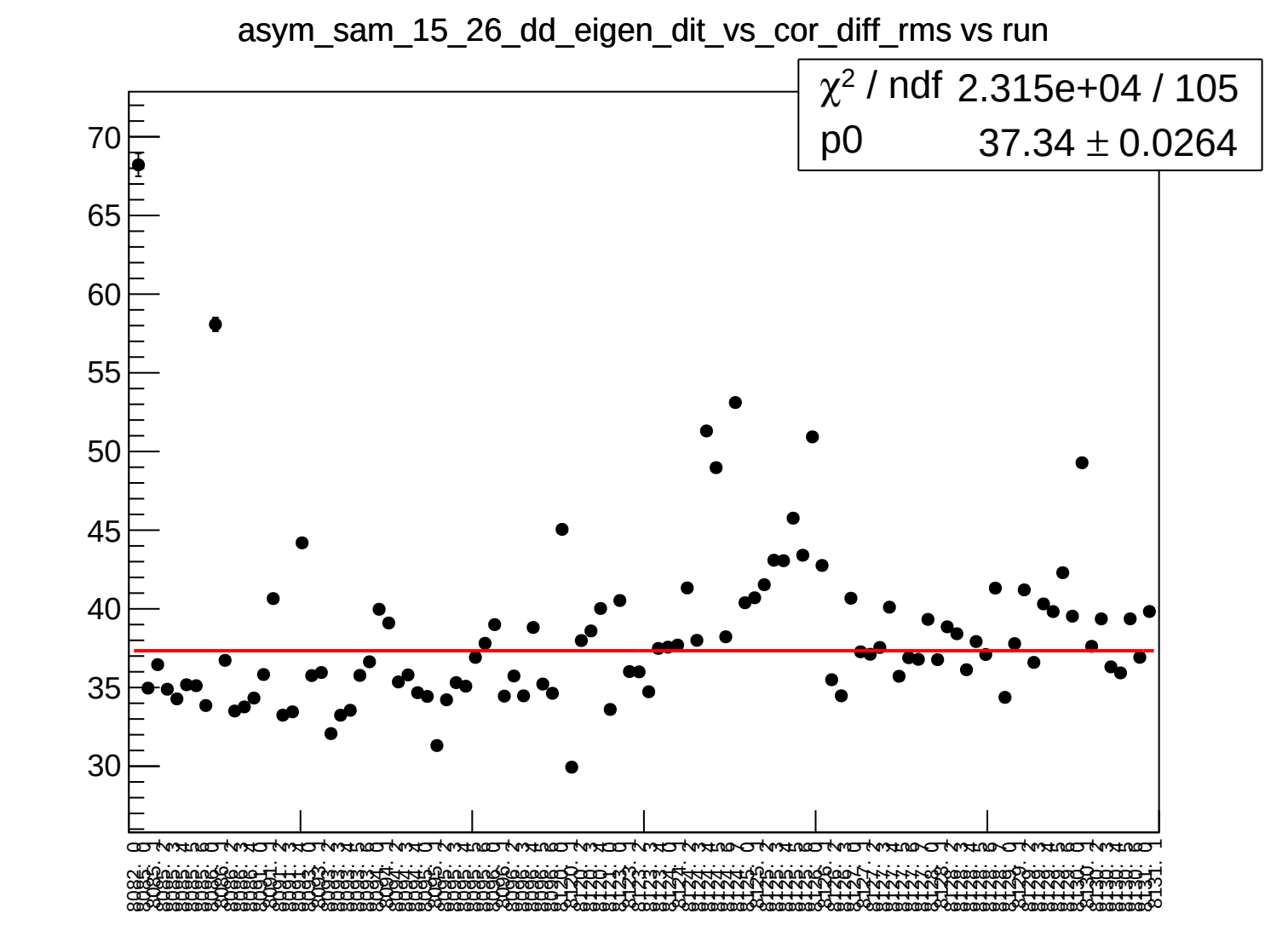

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 67.75 / 104
p0 2.041e−06 ± 2.463e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 105
Mean 37.33
Std Dev 148.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

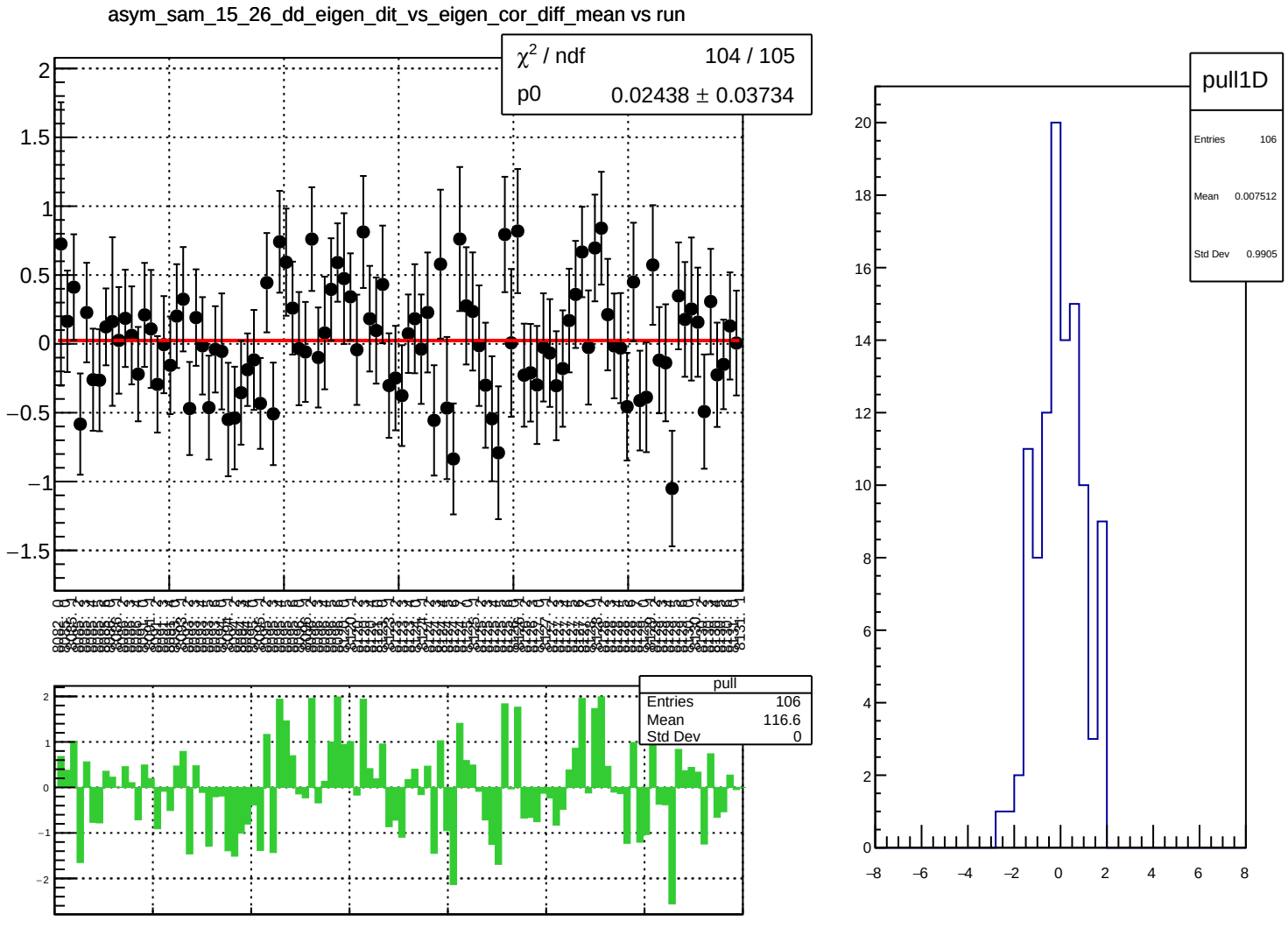

pull1D
Entries 105
Mean 0.002065
Std Dev 0.8033
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

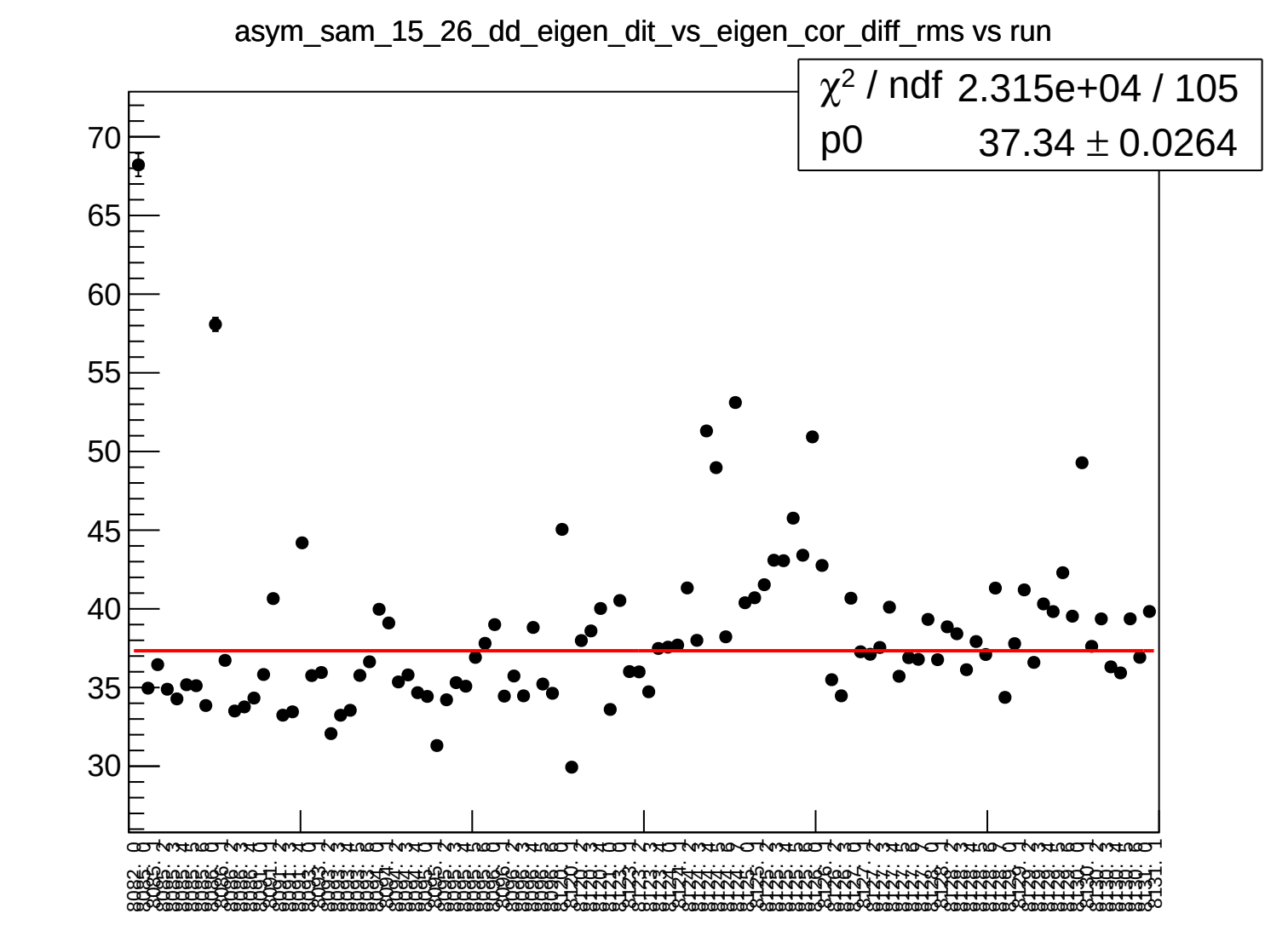

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.036e+04 / 104
p0 0.002428 ± 1.742e−06
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018

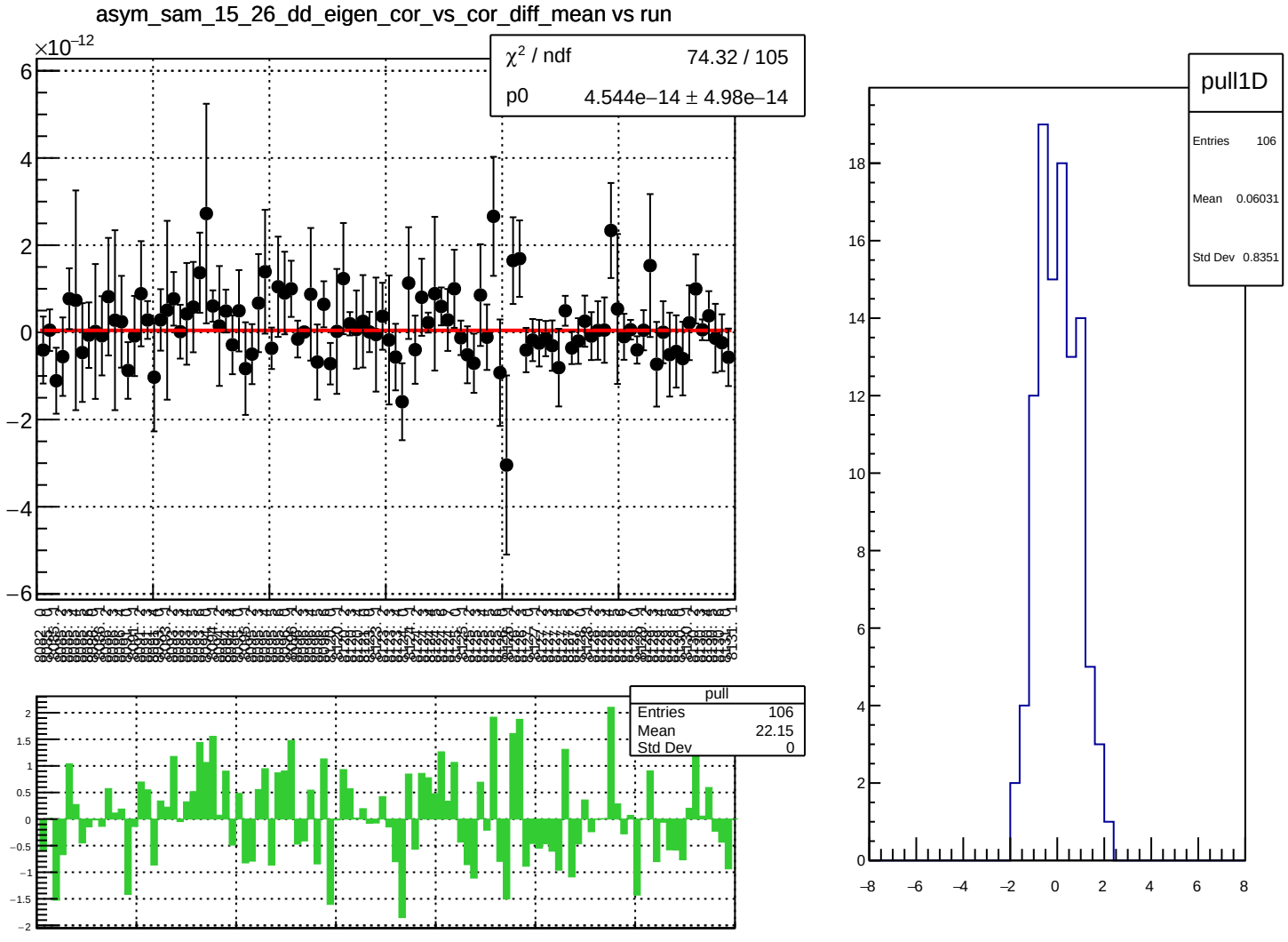

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 104 / 105
p0 0.02438 ± 0.03734
pull
Entries 106
Mean 116.6
Std Dev 0

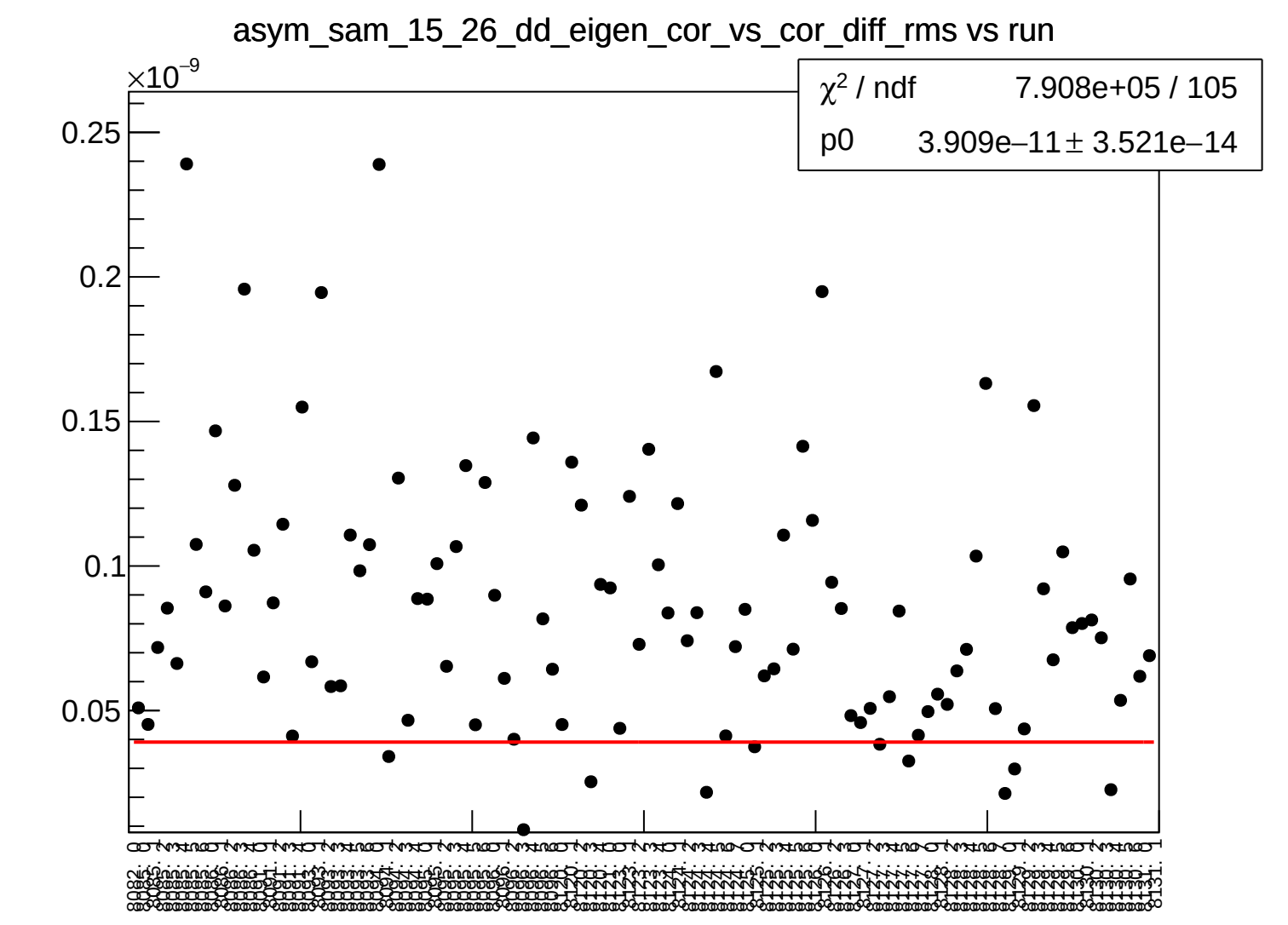

pull1D
Entries 106
Mean 0.007512
Std Dev 0.9905

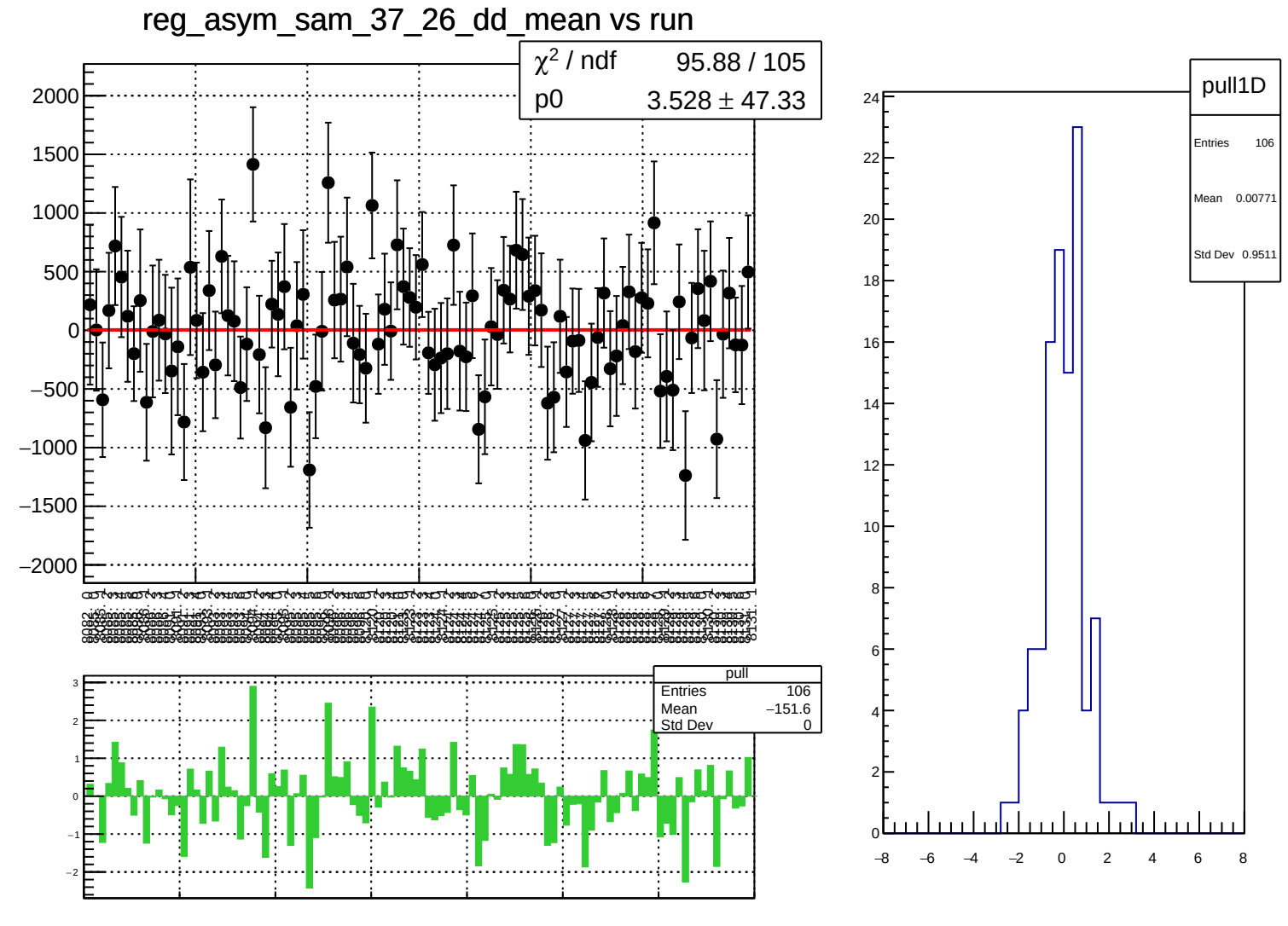

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.315e+04 / 105
p0 37.34 ± 0.0264
70
65
60
55
50
45
40
35
30

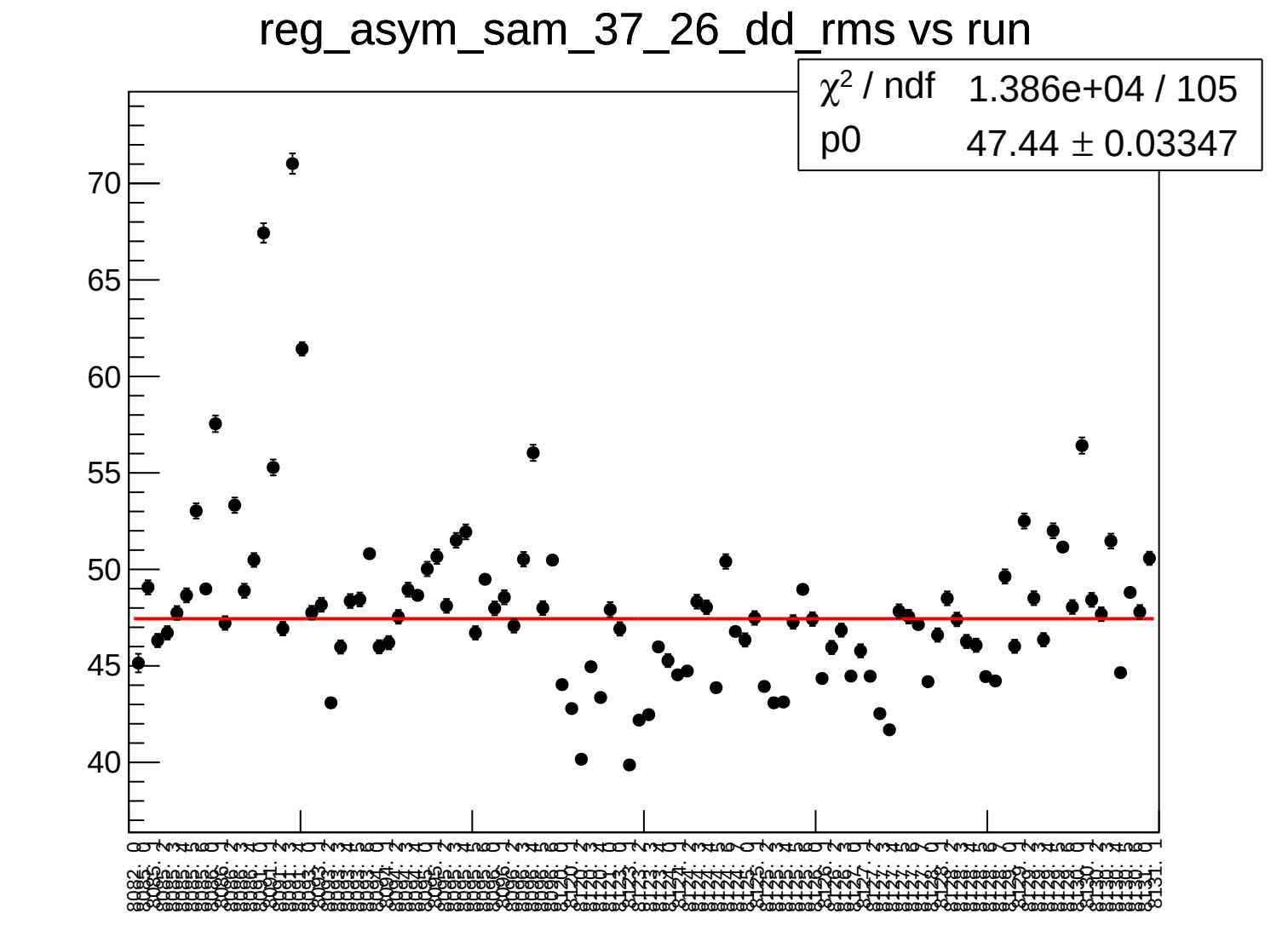

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104 / 105
p0 0.02438 ± 0.03734
pull
Entries 106
Mean 116.6
Std Dev 0
pull1D
Entries 106
Mean 0.007512
Std Dev 0.9905

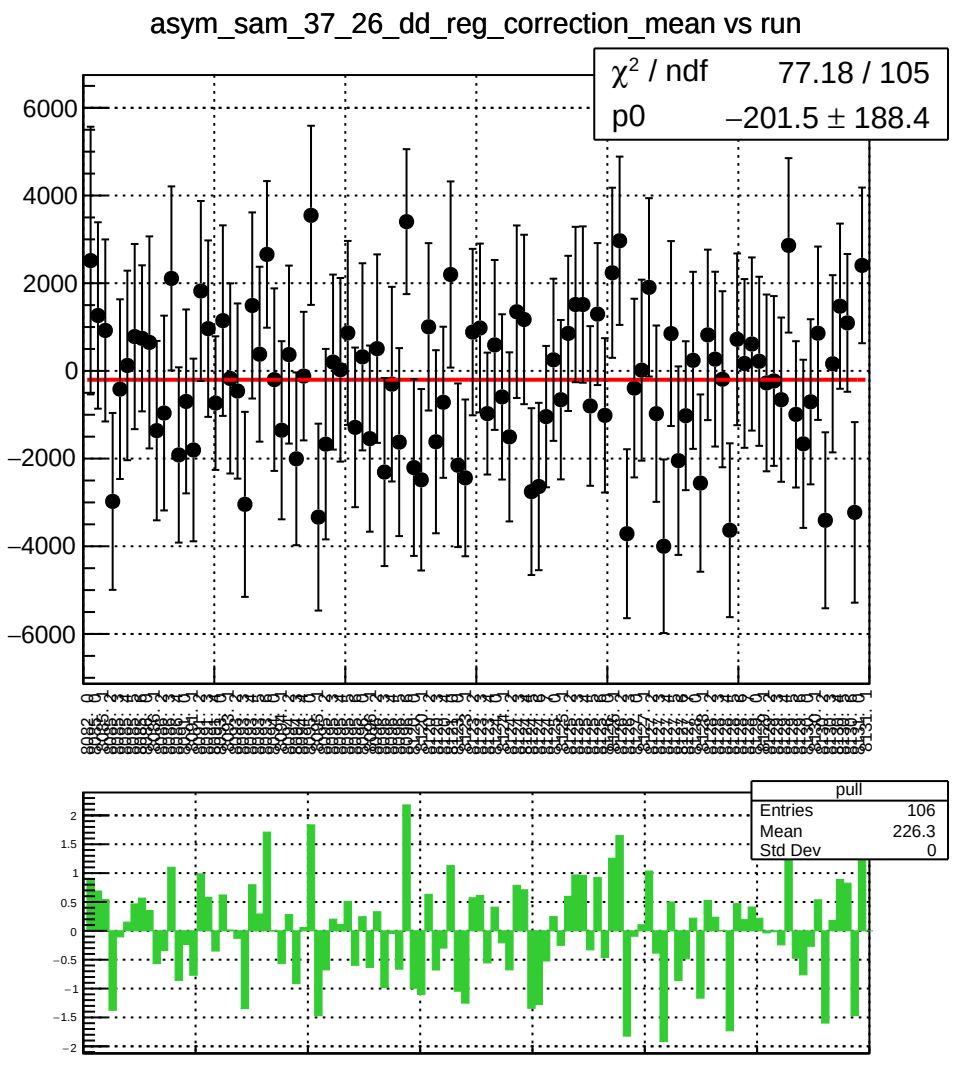

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.315e+04 / 105
p0 37.34 ± 0.0264
70
65
60
55
50
45
40
35
30

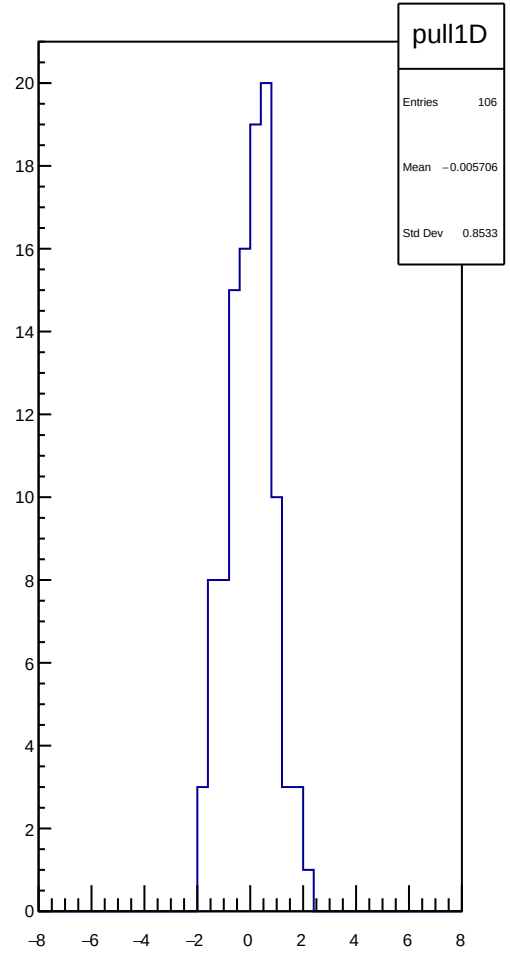

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 74.32 / 105
p0 4.544e−14 ± 4.98e−14
pull
Entries 106
Mean 22.15
Std Dev 0
pull1D
Entries 106
Mean 0.06031
Std Dev 0.8351

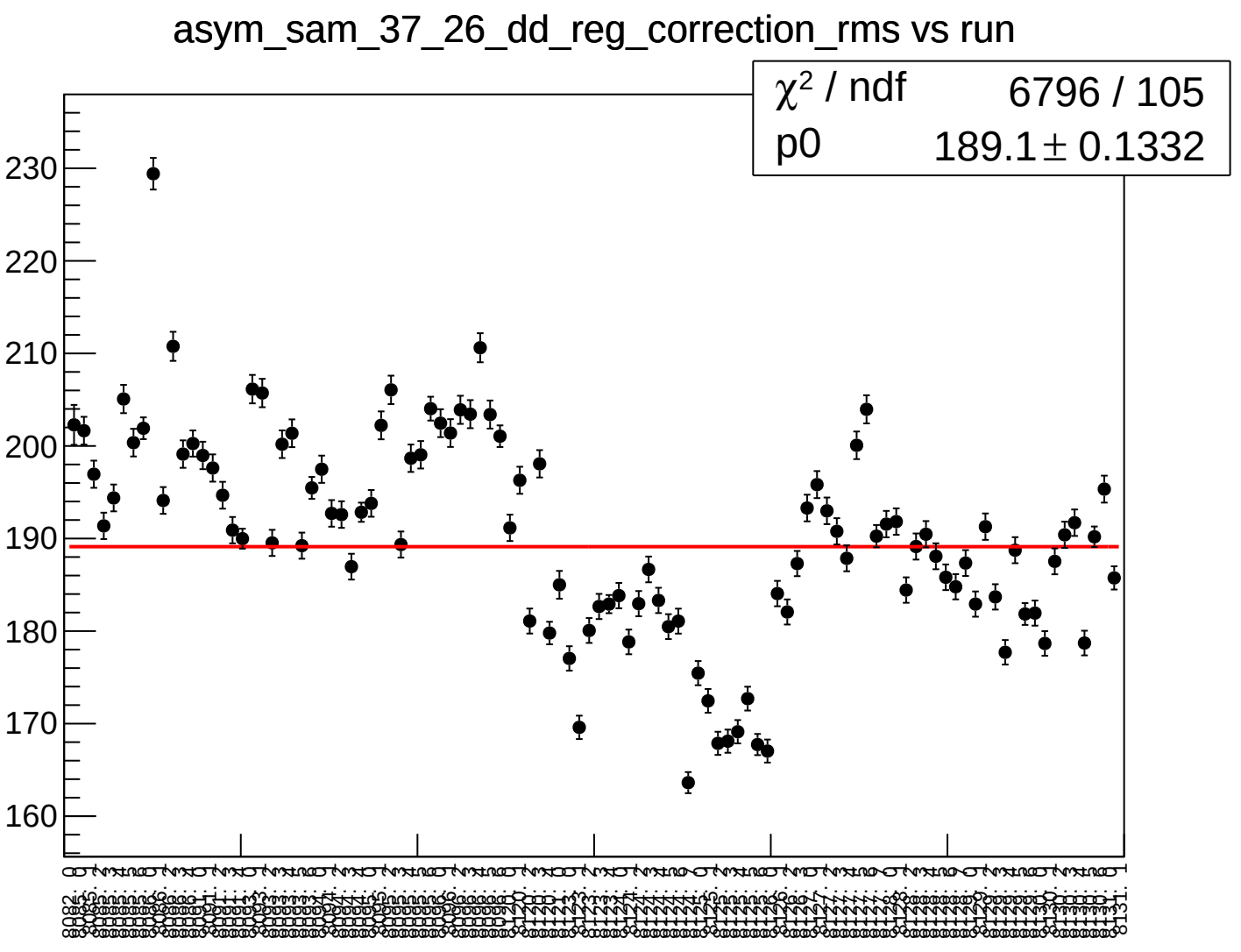

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.908e+05 / 105
p0 3.909e−11 ± 3.521e−14
0.25
0.2
0.15
0.1
0.05

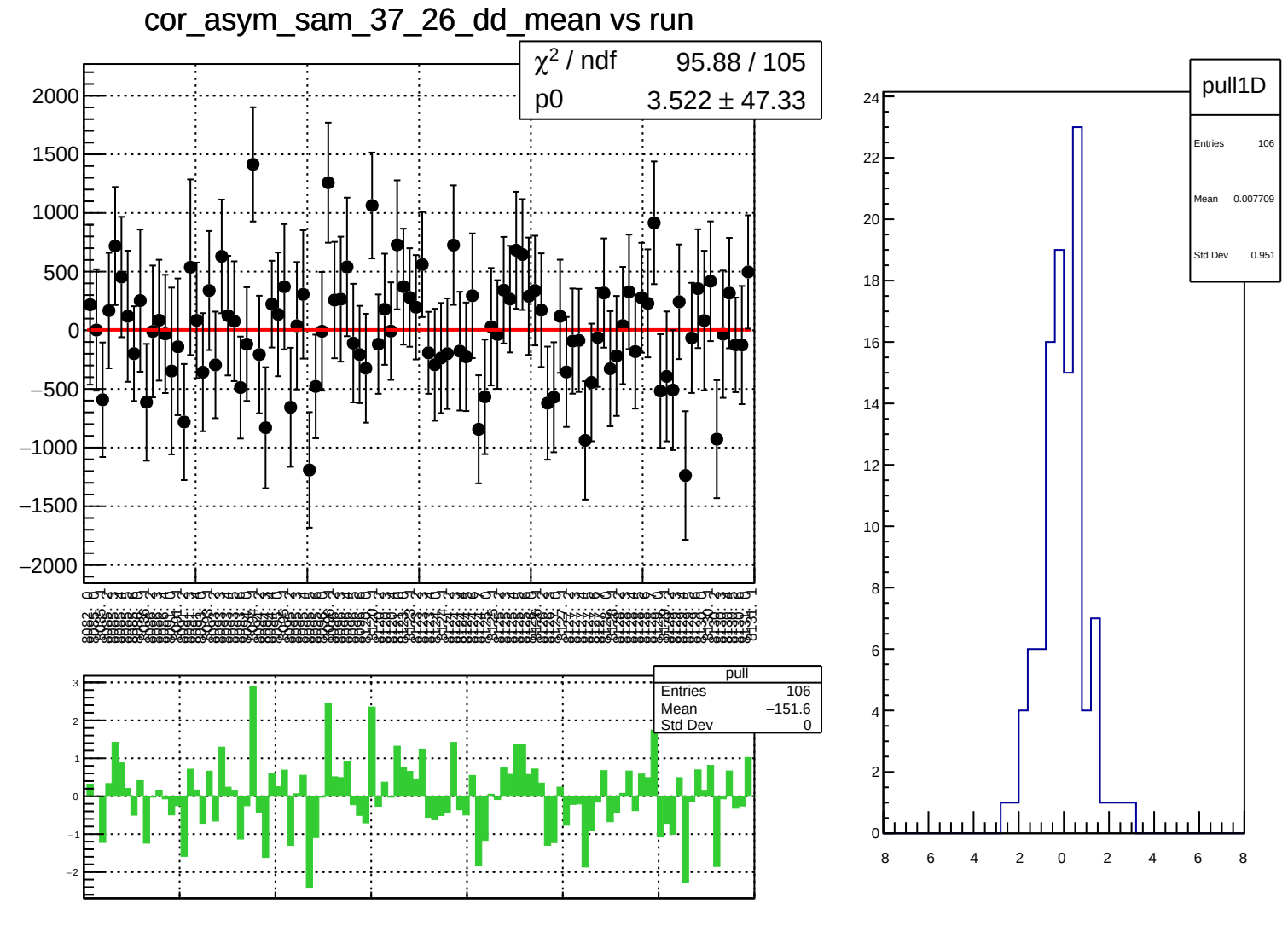

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 95.88 / 105
p0 3.528 ± 47.33
pull
Entries 106
Mean −151.6
Std Dev 0
pull1D
Entries 106
Mean 0.00771
Std Dev 0.9511

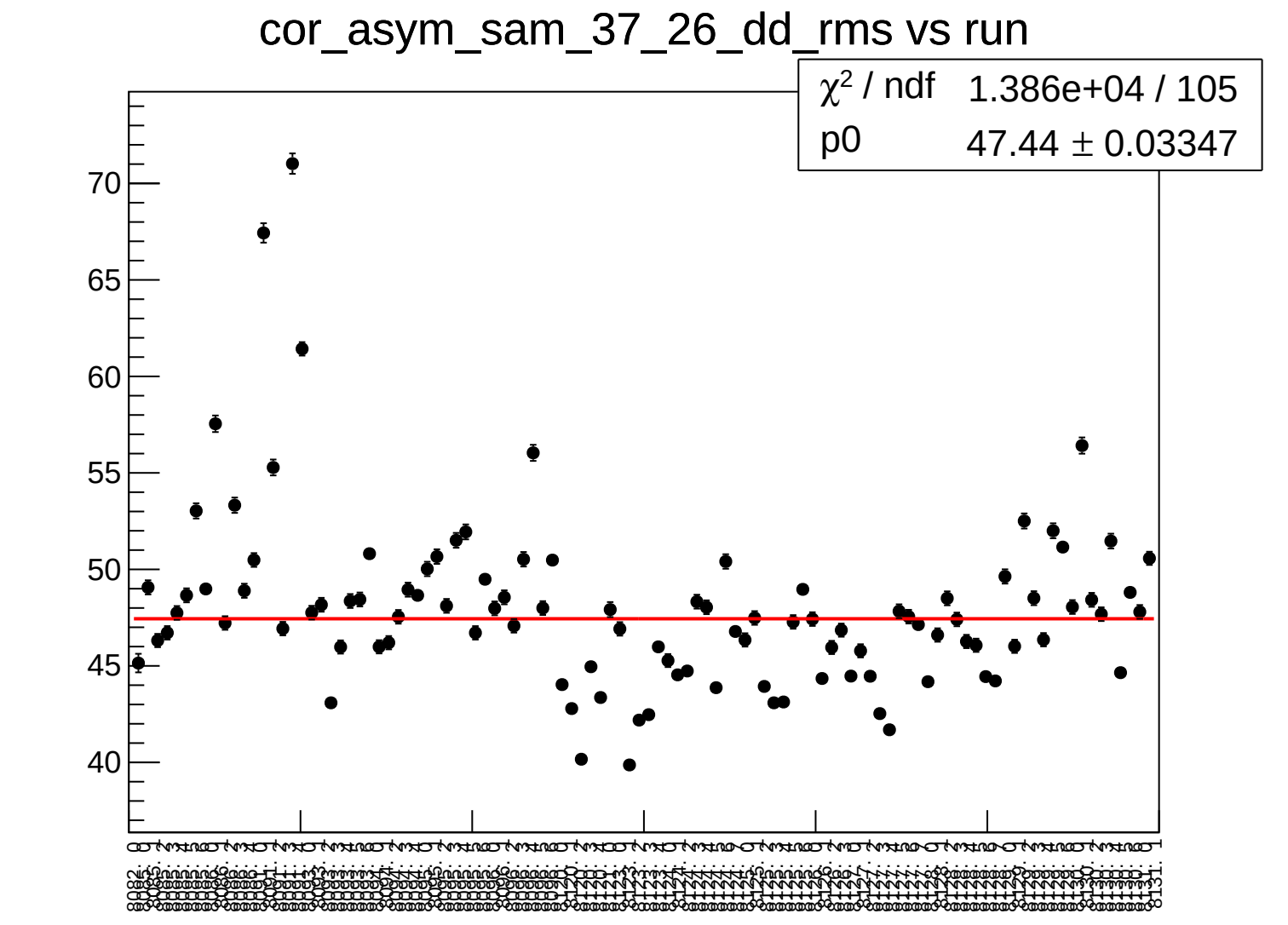

reg_asym_sam_37_26_dd_rms vs run
$\chi^2$ / ndf 1.386e+04 / 105
p0 47.44 ± 0.03347
70
65
60
55
50
45
40

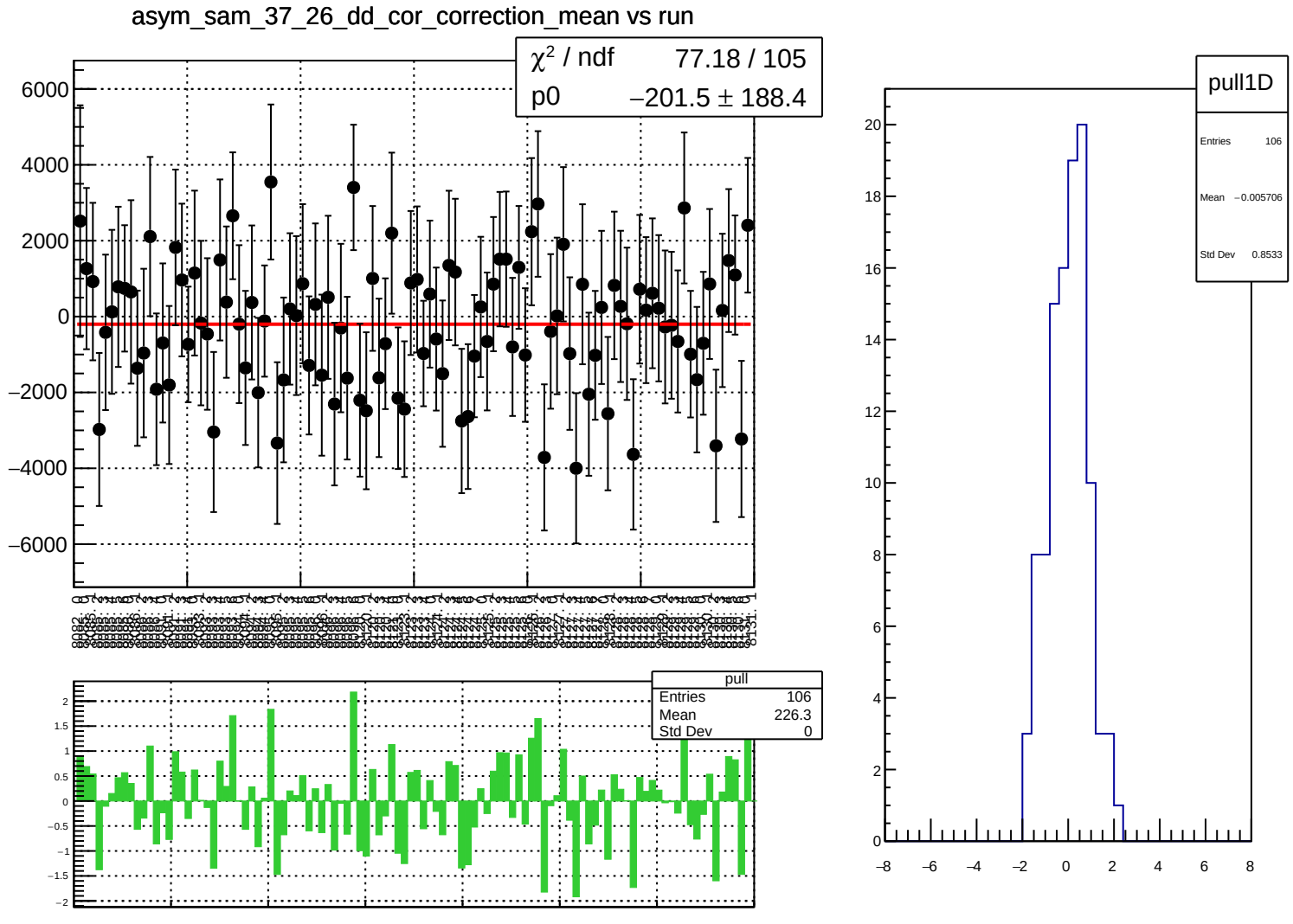

asym_sam_37_26_dd_reg_correction_mean vs run
χ² / ndf 77.18 / 105
p0 −201.5 ± 188.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 106
Mean 226.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

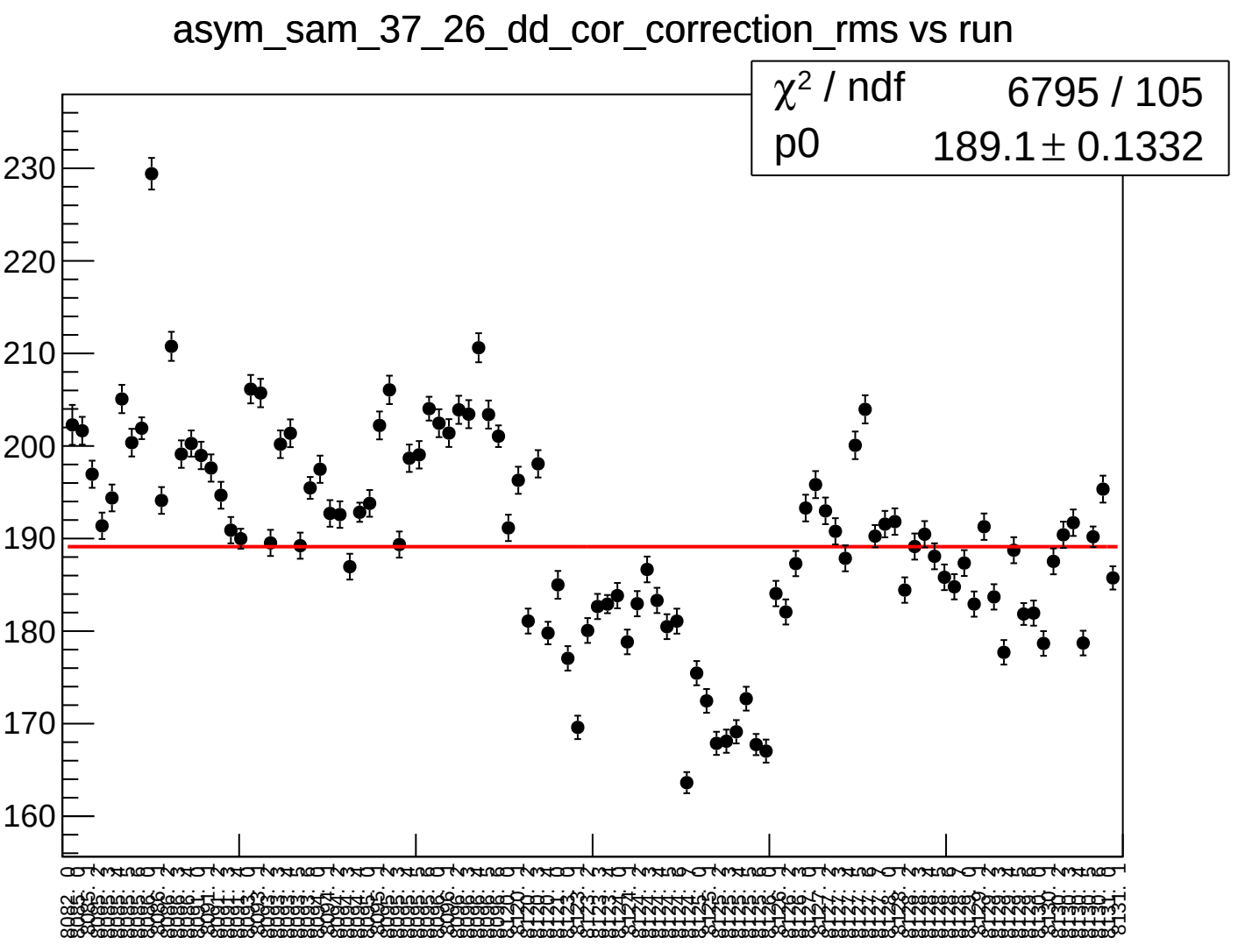

pull1D
Entries 106
Mean −0.005706
Std Dev 0.8533
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

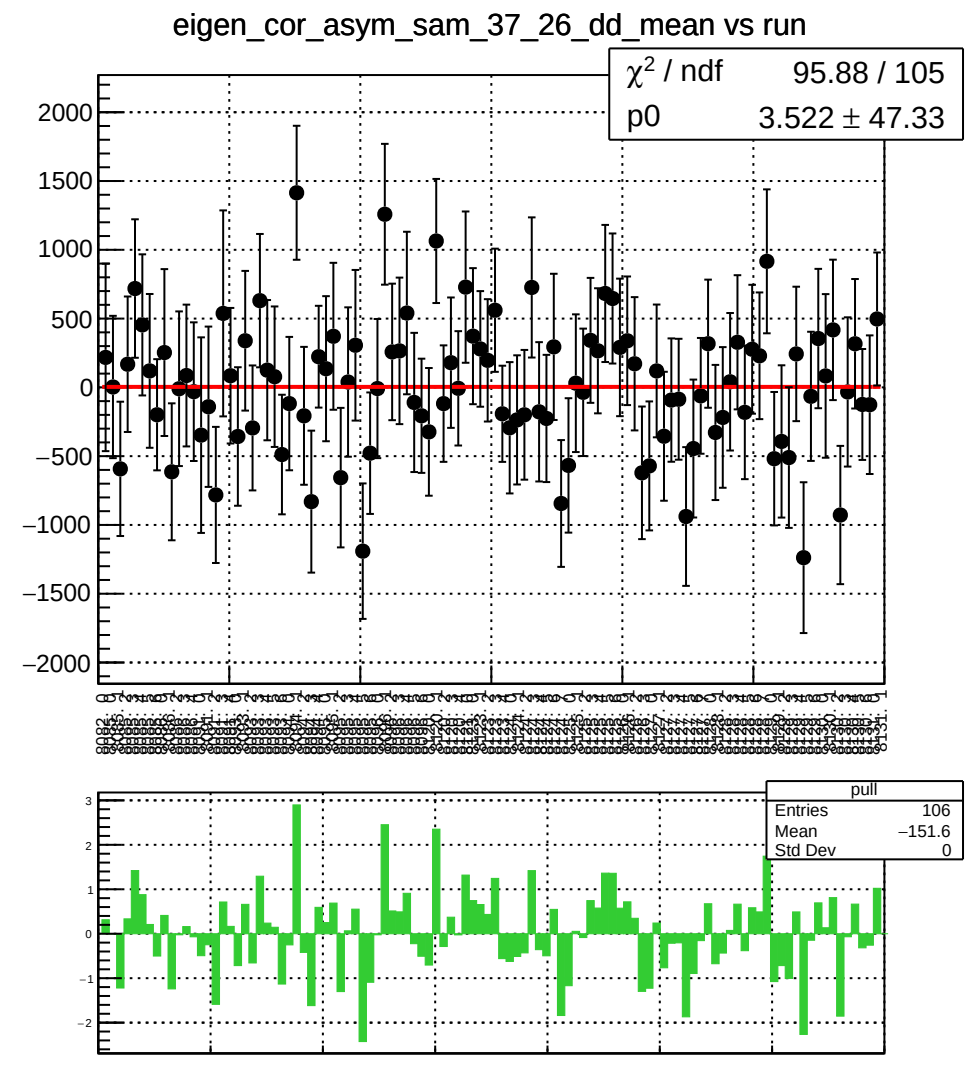

asym_sam_37_26_dd_reg_correction_rms vs run
χ² / ndf 6796 / 105
p0 189.1 ± 0.1332
230
220
210
200
190
180
170
160

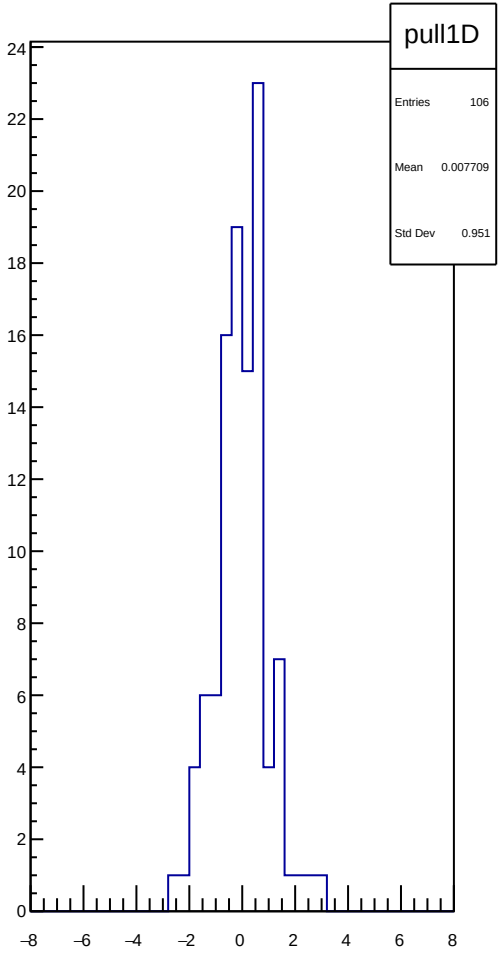

cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 95.88 / 105
p0 3.522 ± 47.33
pull
Entries 106
Mean −151.6
Std Dev 0
pull1D
Entries 106
Mean 0.007709
Std Dev 0.951

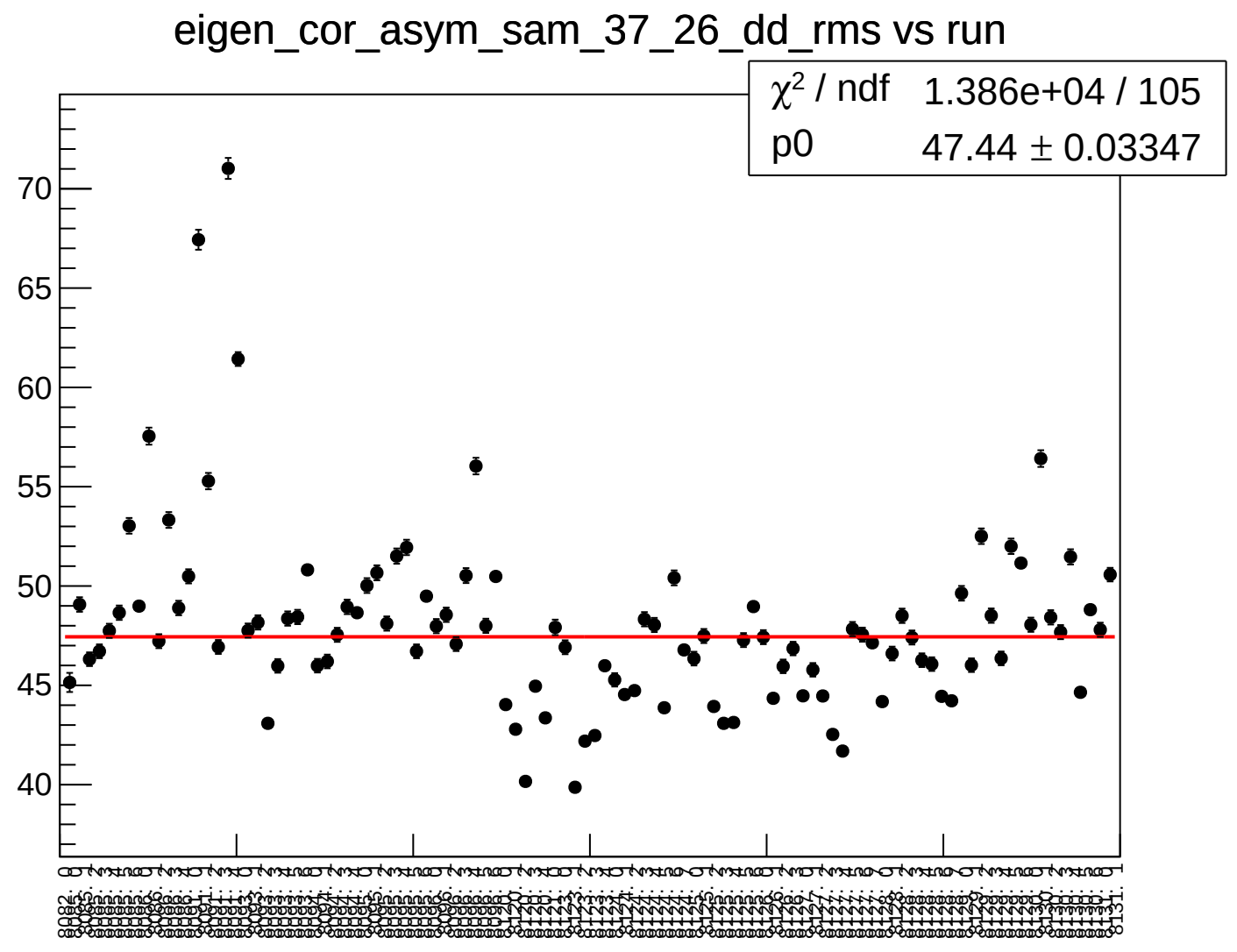

cor_asym_sam_37_26_dd_rms vs run
$\chi^2$ / ndf 1.386e+04 / 105
p0 47.44 ± 0.03347
70
65
60
55
50
45
40

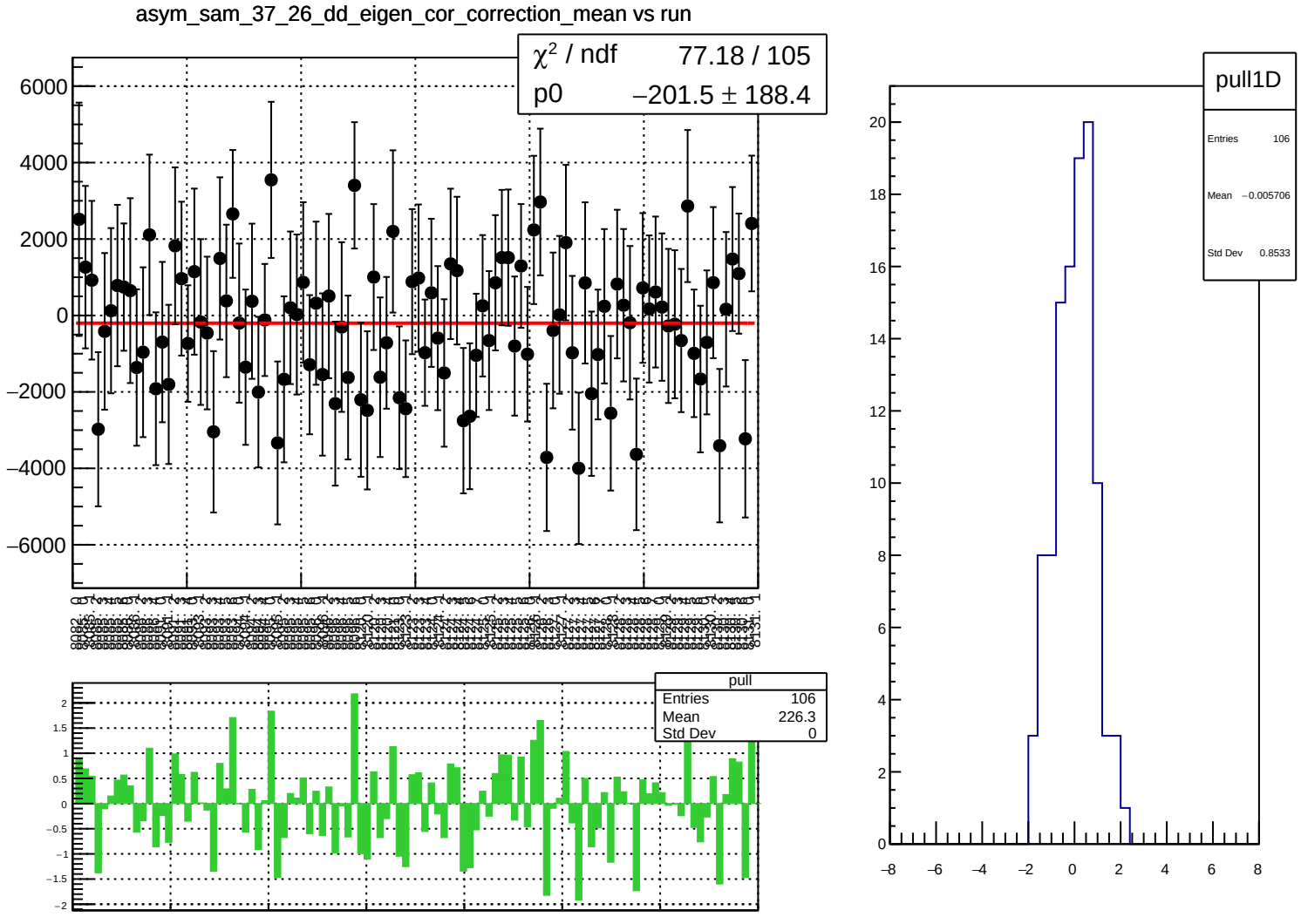

asym_sam_37_26_dd_cor_correction_mean vs run
χ² / ndf 77.18 / 105
p0 −201.5 ± 188.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 106
Mean 226.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 106
Mean −0.005706
Std Dev 0.8533
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

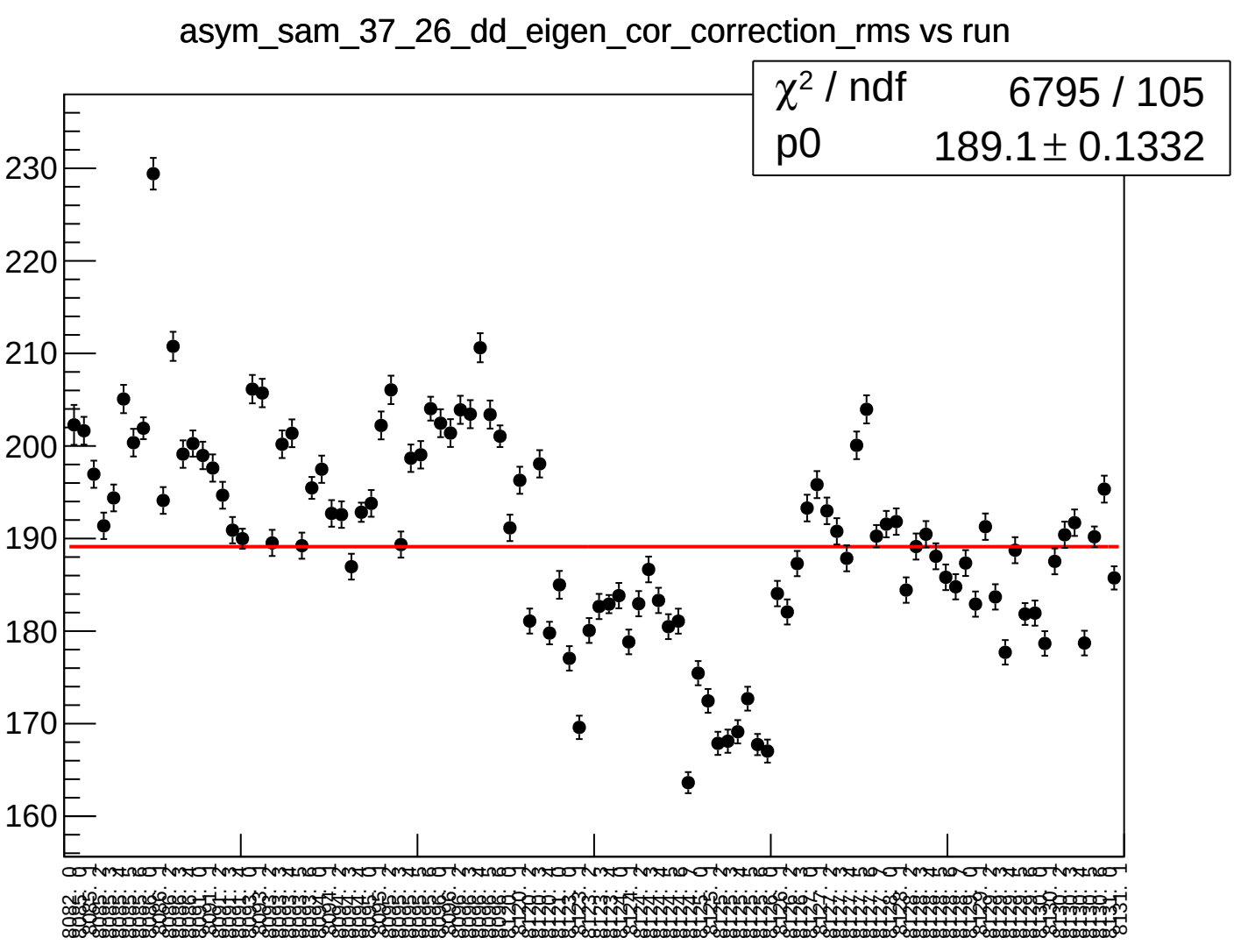

asym_sam_37_26_dd_cor_correction_rms vs run
χ² / ndf 6795 / 105
p0 189.1 ± 0.1332
230
220
210
200
190
180
170
160

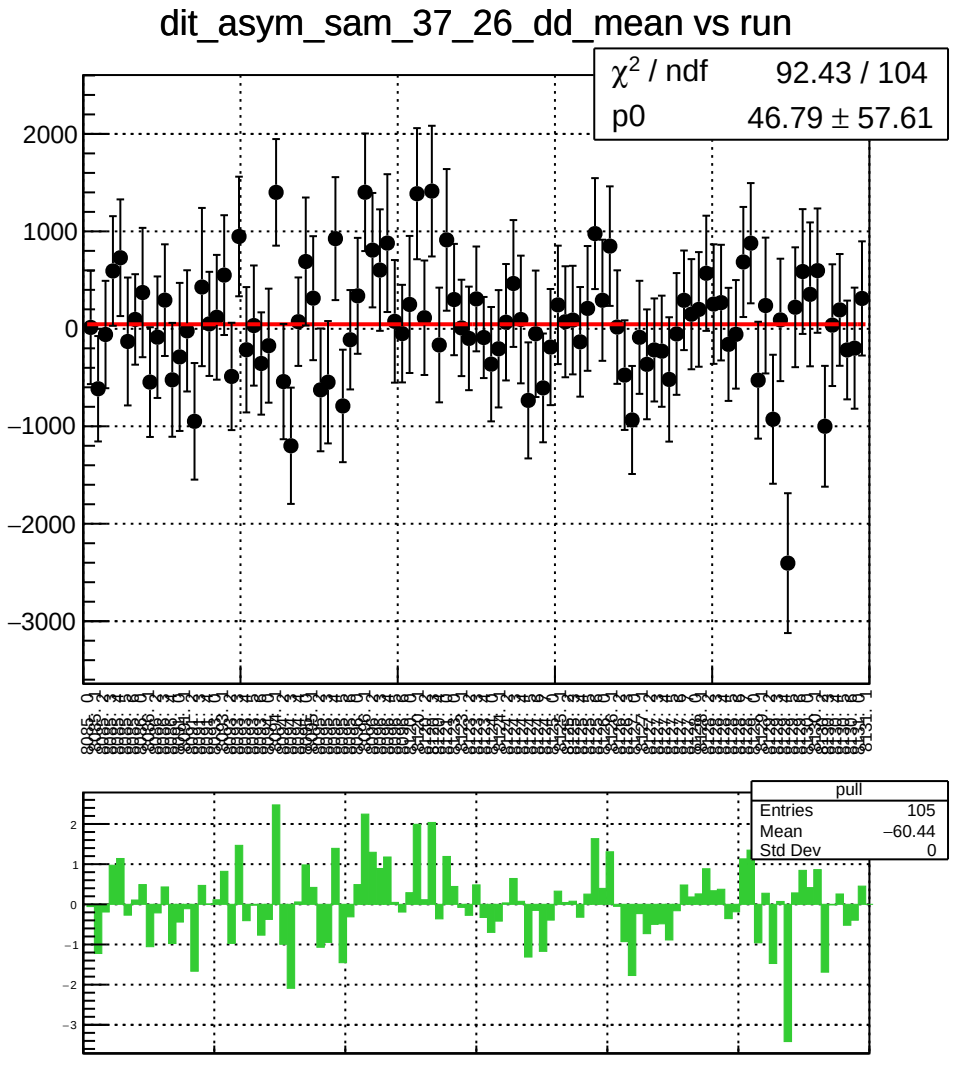

eigen_cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 95.88 / 105
p0 3.522 ± 47.33
pull
Entries 106
Mean −151.6
Std Dev 0

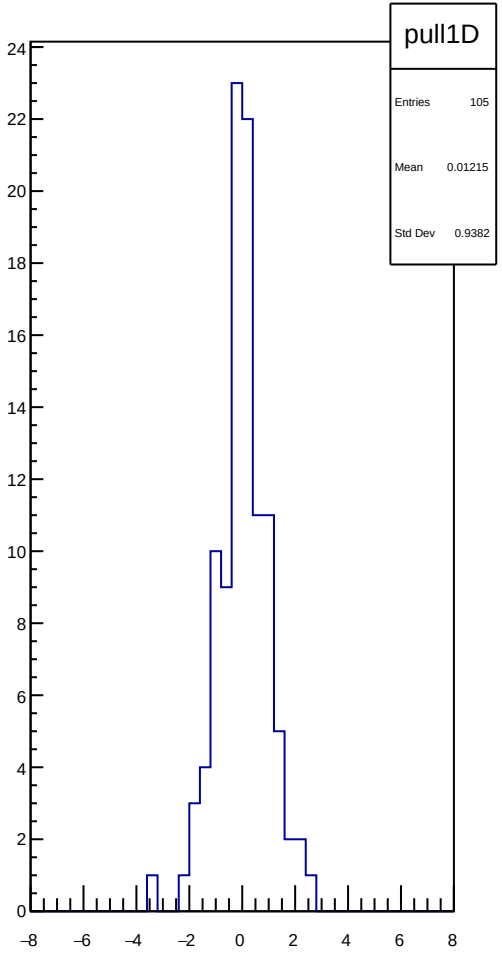

pull1D
Entries 106
Mean 0.007709
Std Dev 0.951

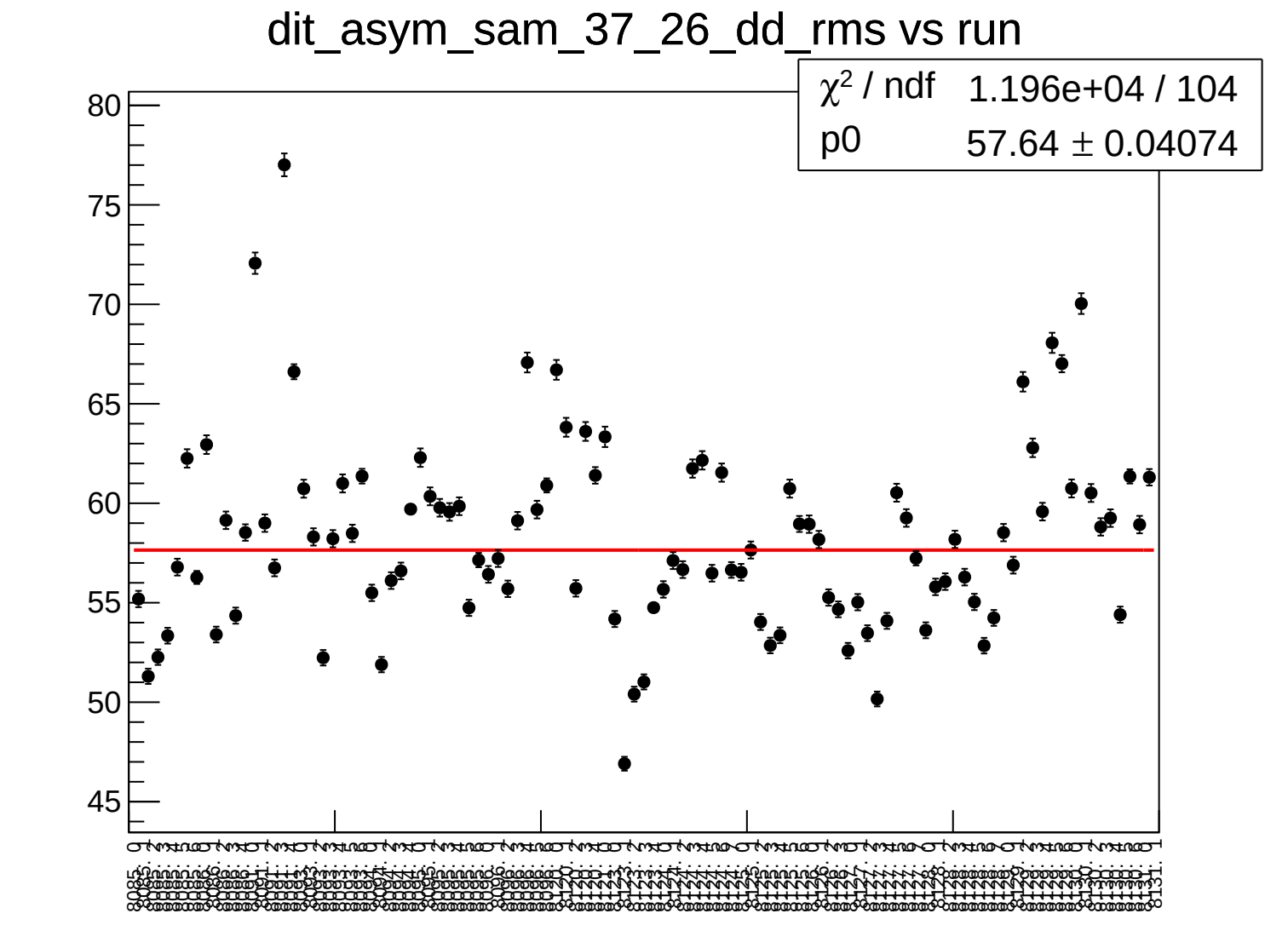

eigen_cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 1.386e+04 / 105
p0 47.44 ± 0.03347
70
65
60
55
50
45
40

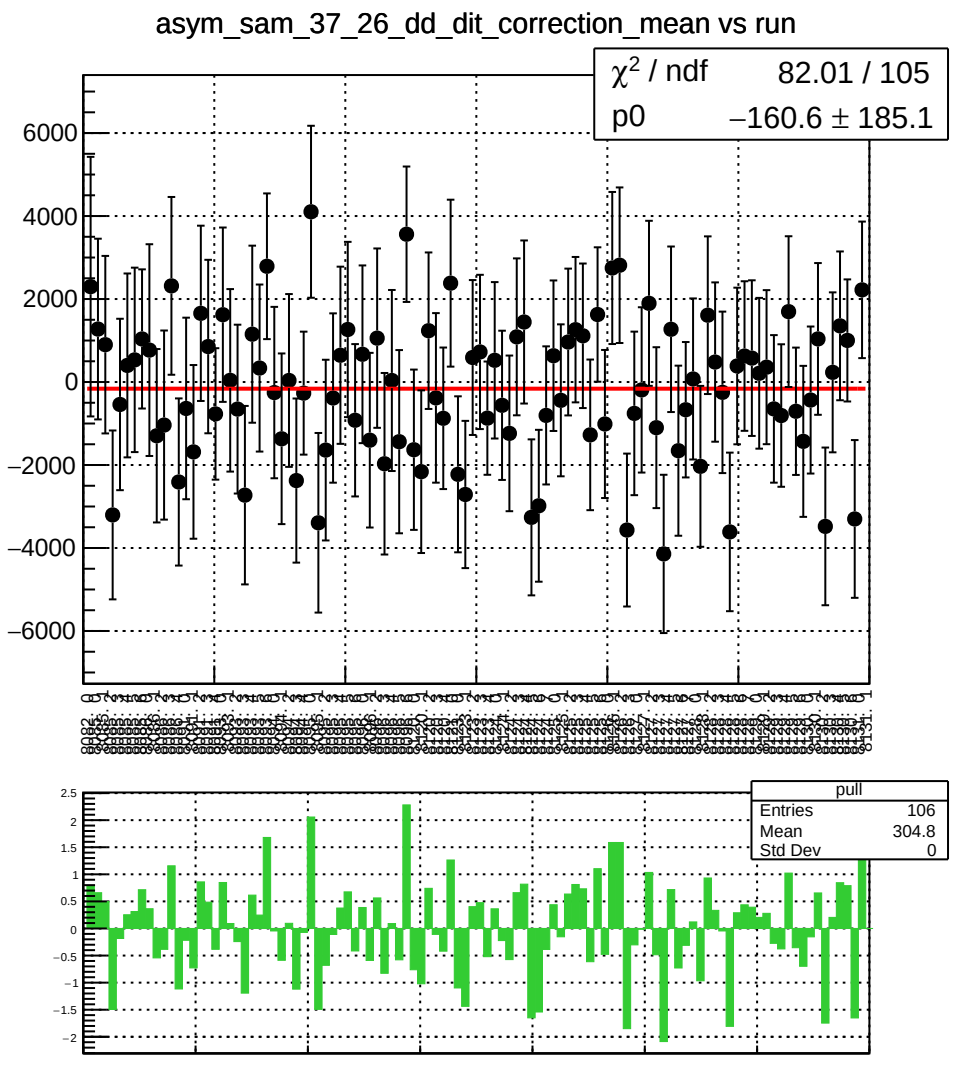

asym_sam_37_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 77.18 / 105
p0 −201.5 ± 188.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 106
Mean 226.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 106
Mean −0.005706
Std Dev 0.8533
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

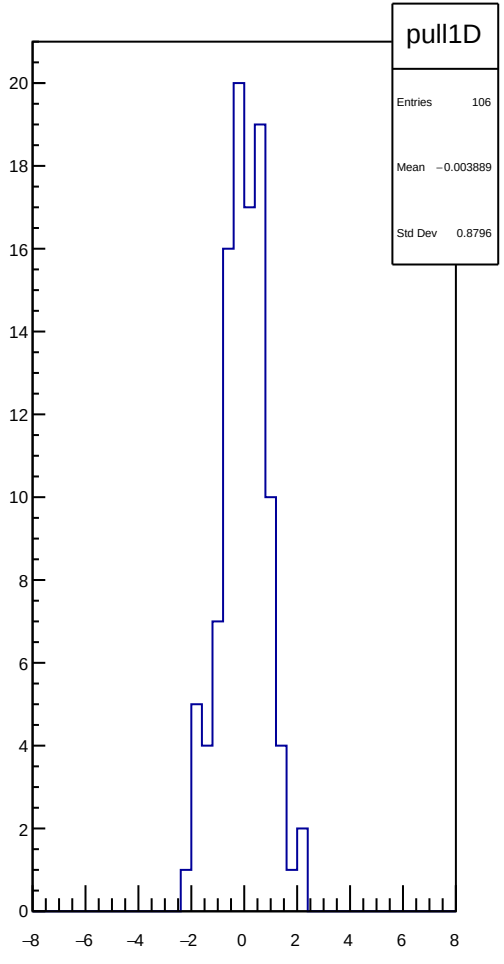

asym_sam_37_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 6795 / 105
p0 189.1 ± 0.1332
230
220
210
200
190
180
170
160

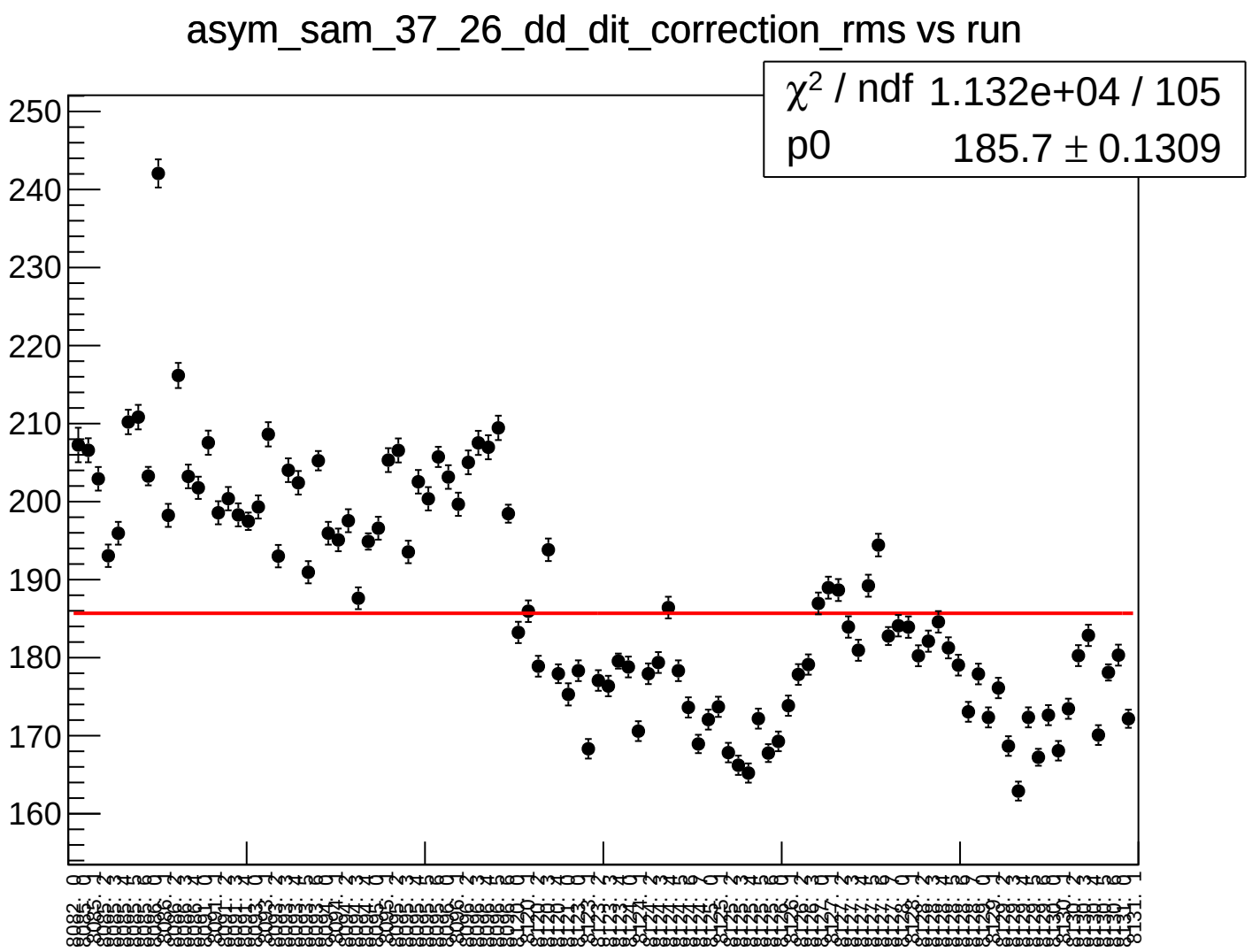

dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 92.43 / 104
p0 46.79 ± 57.61
2000
1000
0
−1000
−2000
−3000
pull
Entries 105
Mean −60.44
Std Dev 0
2
1
0
−1
−2
−3

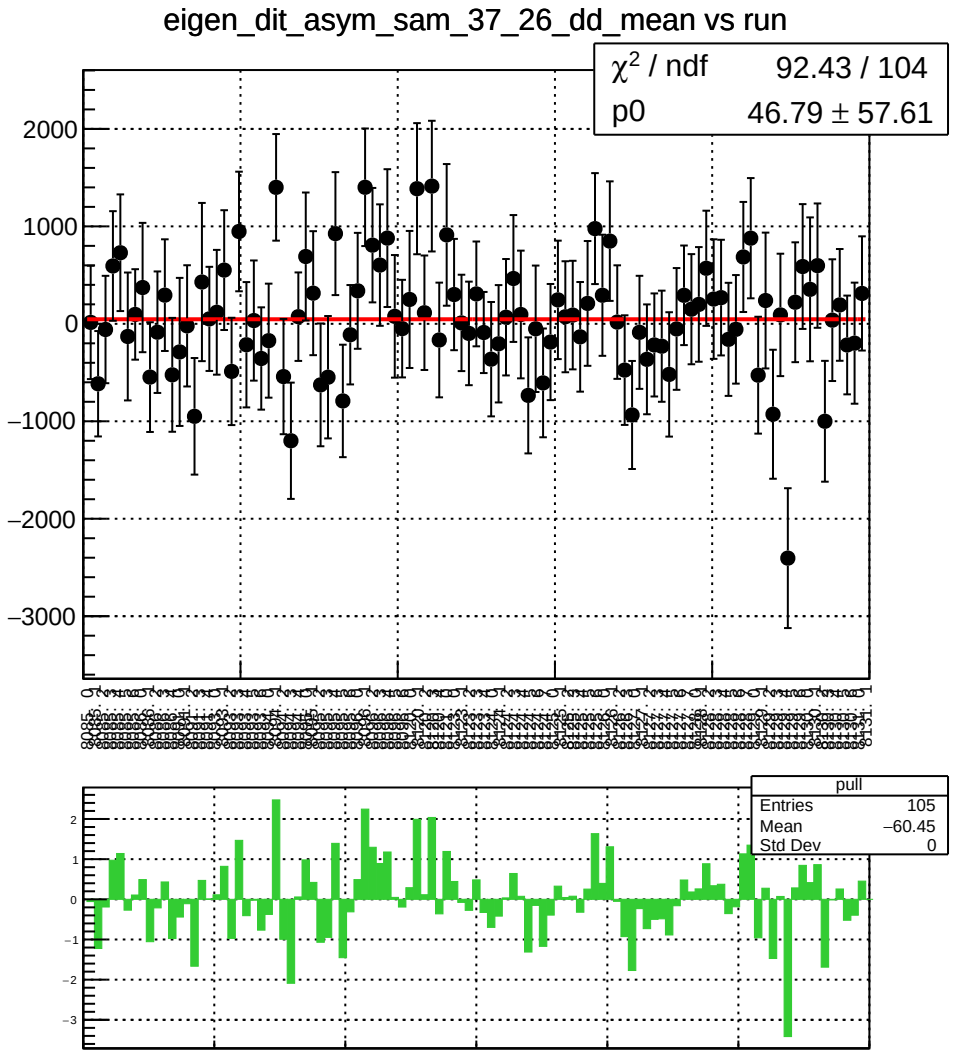

pull1D
Entries 105
Mean 0.01215
Std Dev 0.9382
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

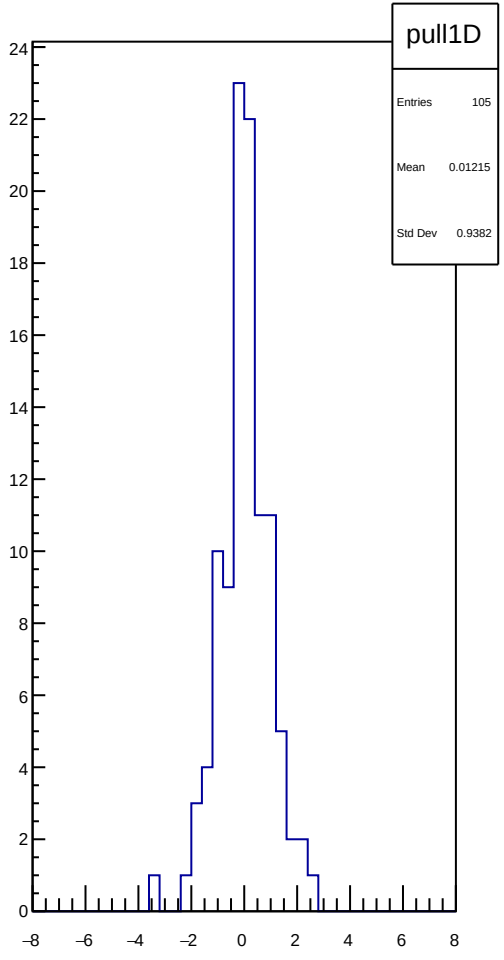

dit_asym_sam_37_26_dd_rms vs run
$\chi^2$ / ndf 1.196e+04 / 104
p0 57.64 ± 0.04074
80
75
70
65
60
55
50
45

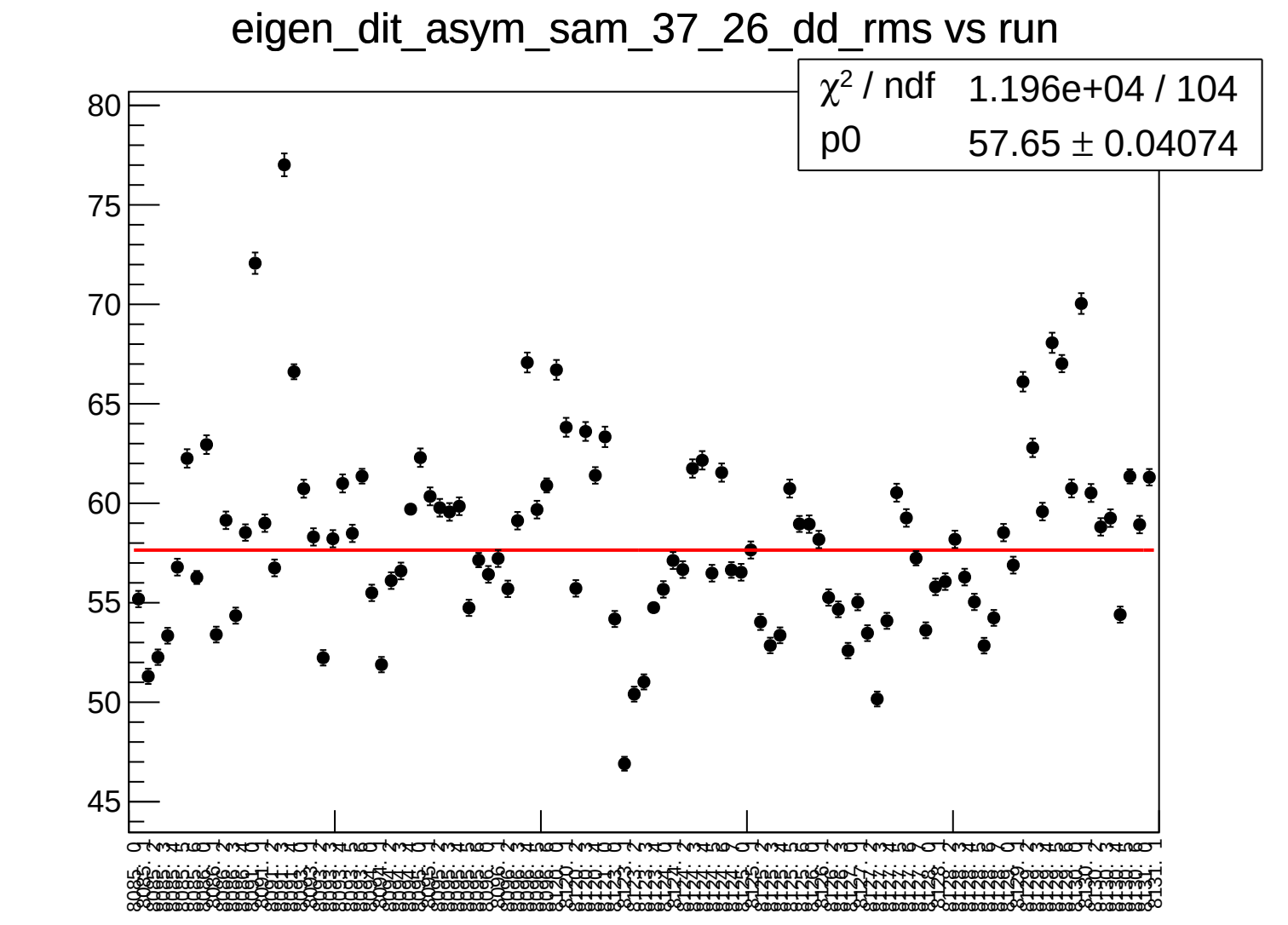

asym_sam_37_26_dd_dit_correction_mean vs run
χ² / ndf 82.01 / 105
p0 −160.6 ± 185.1
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 106
Mean 304.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

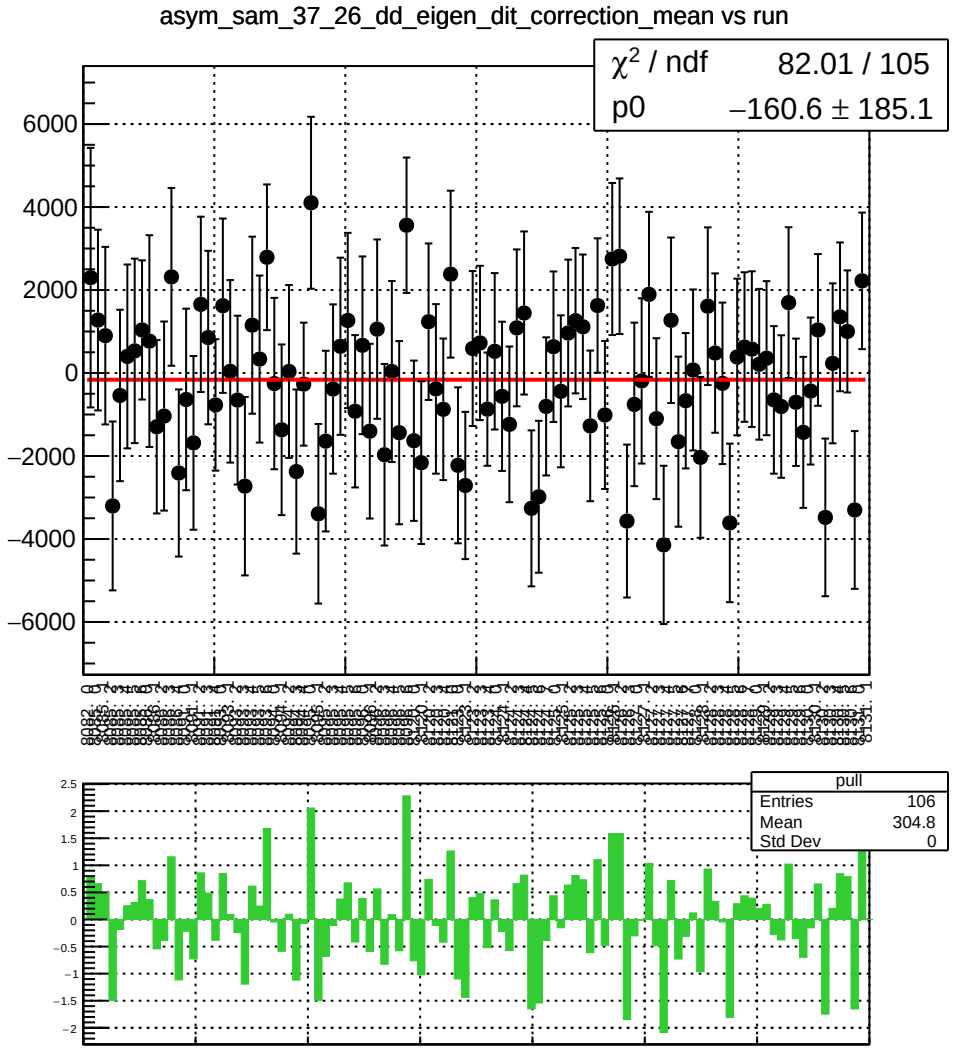

pull1D
Entries 106
Mean −0.003889
Std Dev 0.8796
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

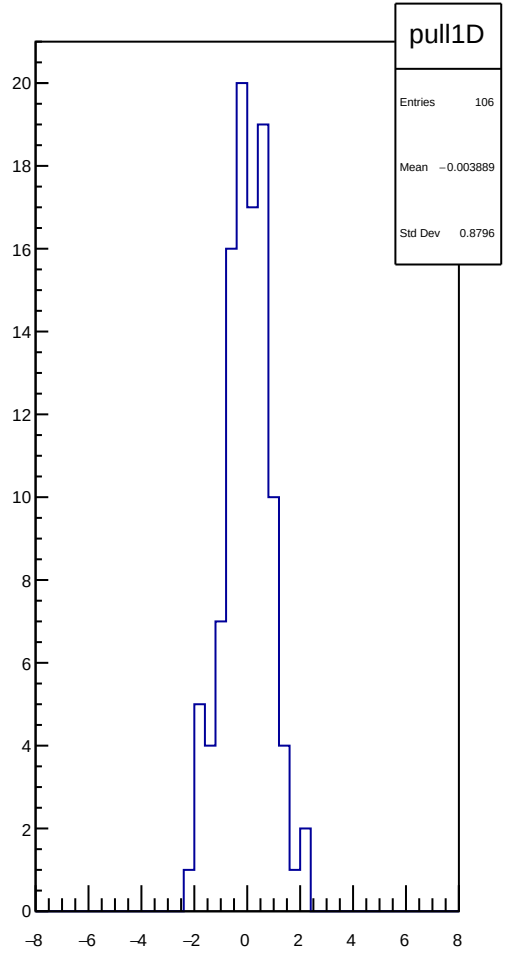

asym_sam_37_26_dd_dit_correction_rms vs run
χ² / ndf 1.132e+04 / 105
p0 185.7 ± 0.1309
250
240
230
220
210
200
190
180
170
160

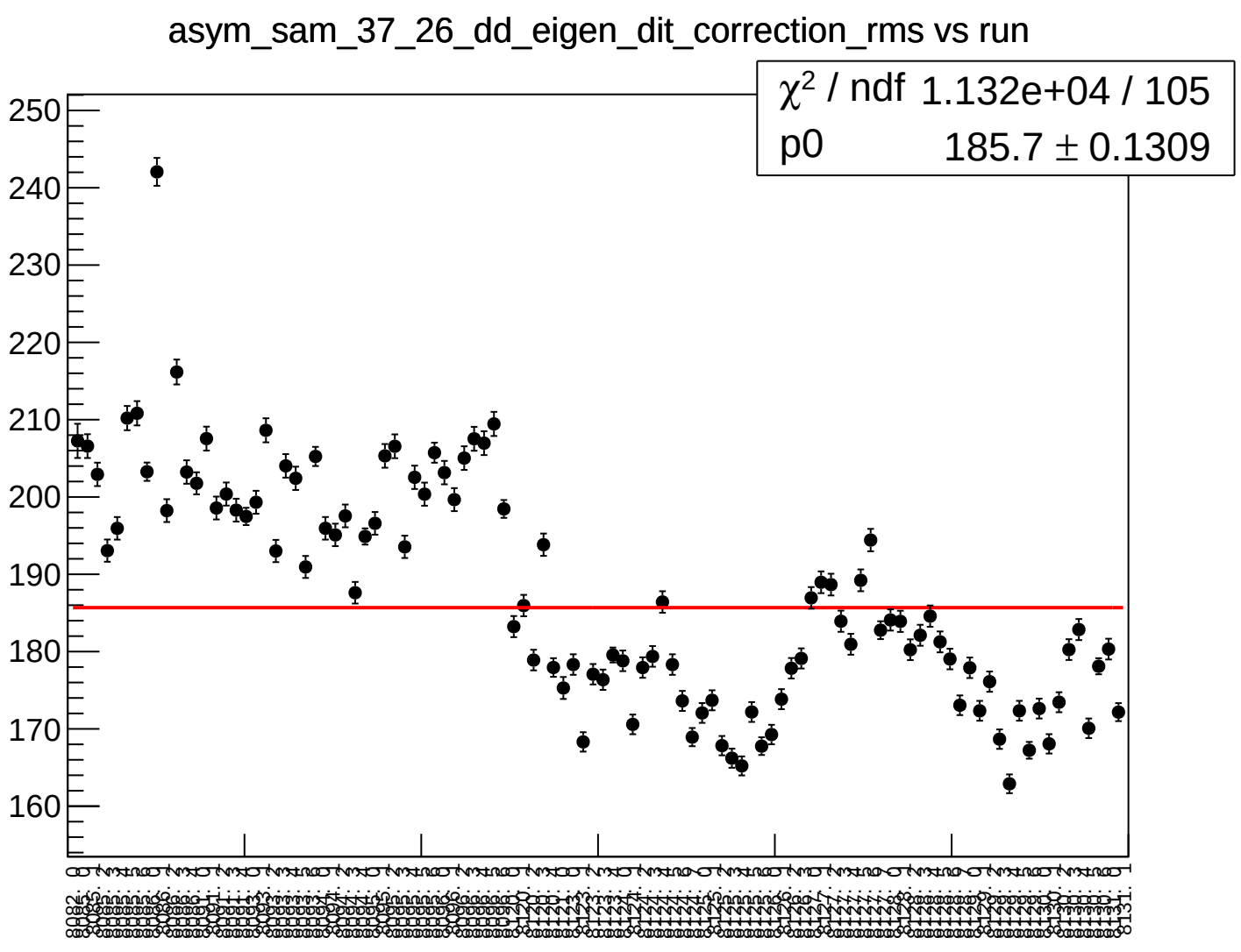

eigen_dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 92.43 / 104
p0 46.79 ± 57.61
2000
1000
0
−1000
−2000
−3000
pull
Entries 105
Mean −60.45
Std Dev 0
2
1
0
−1
−2
−3

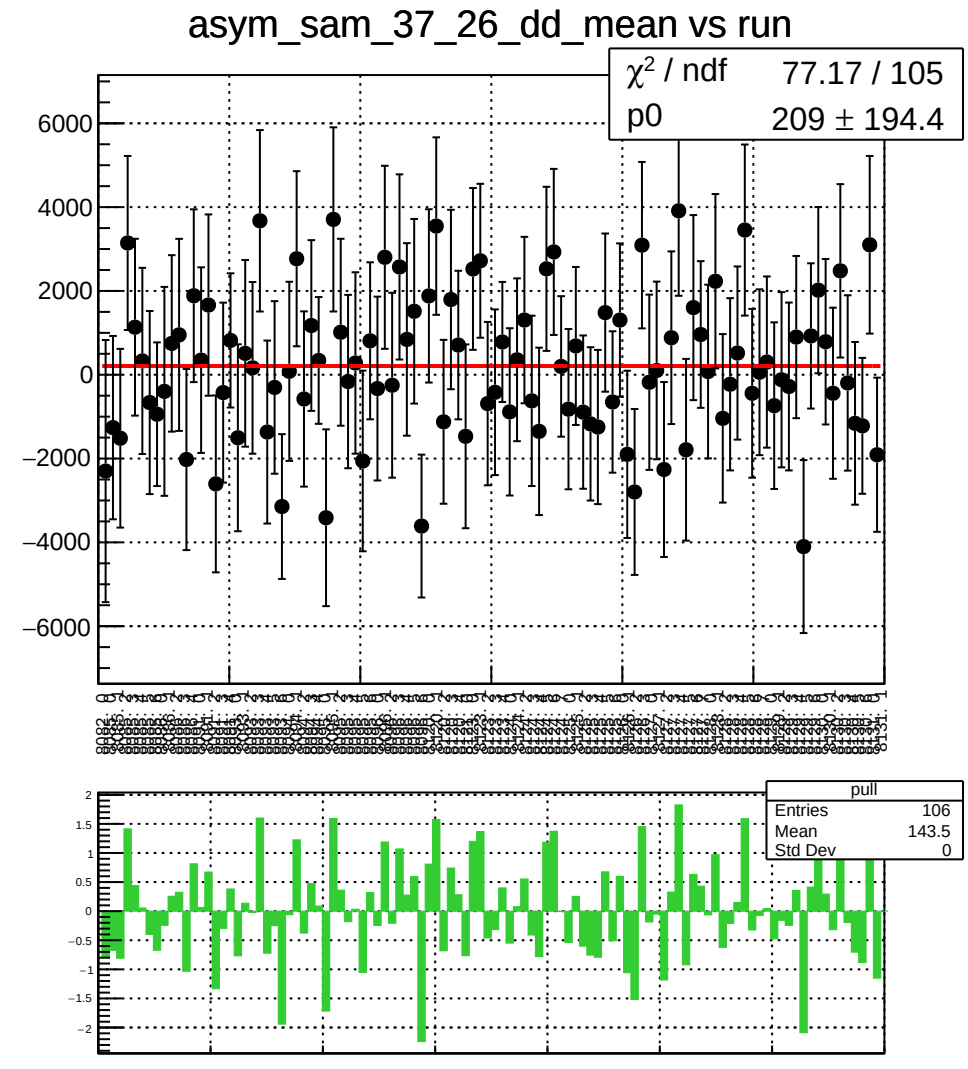

pull1D
Entries 105
Mean 0.01215
Std Dev 0.9382
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

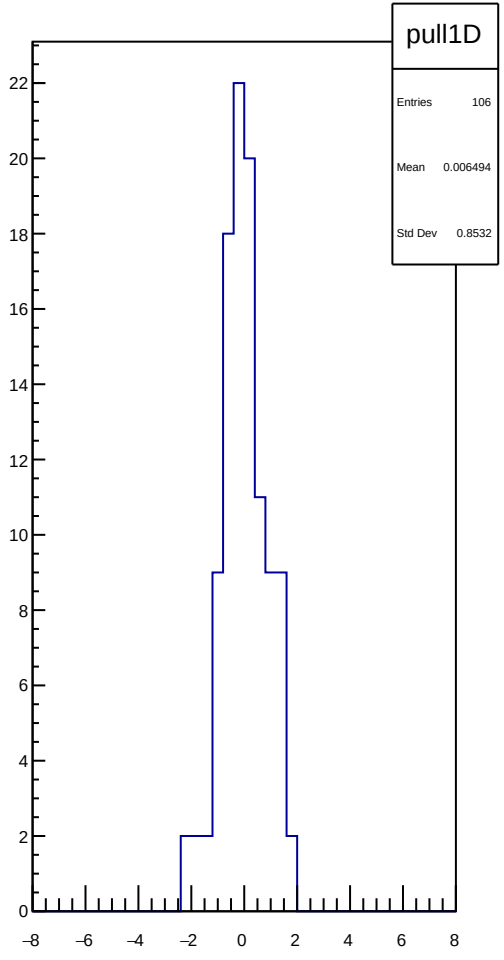

eigen_dit_asym_sam_37_26_dd_rms vs run
χ² / ndf 1.196e+04 / 104
p0 57.65 ± 0.04074
80
75
70
65
60
55
50
45

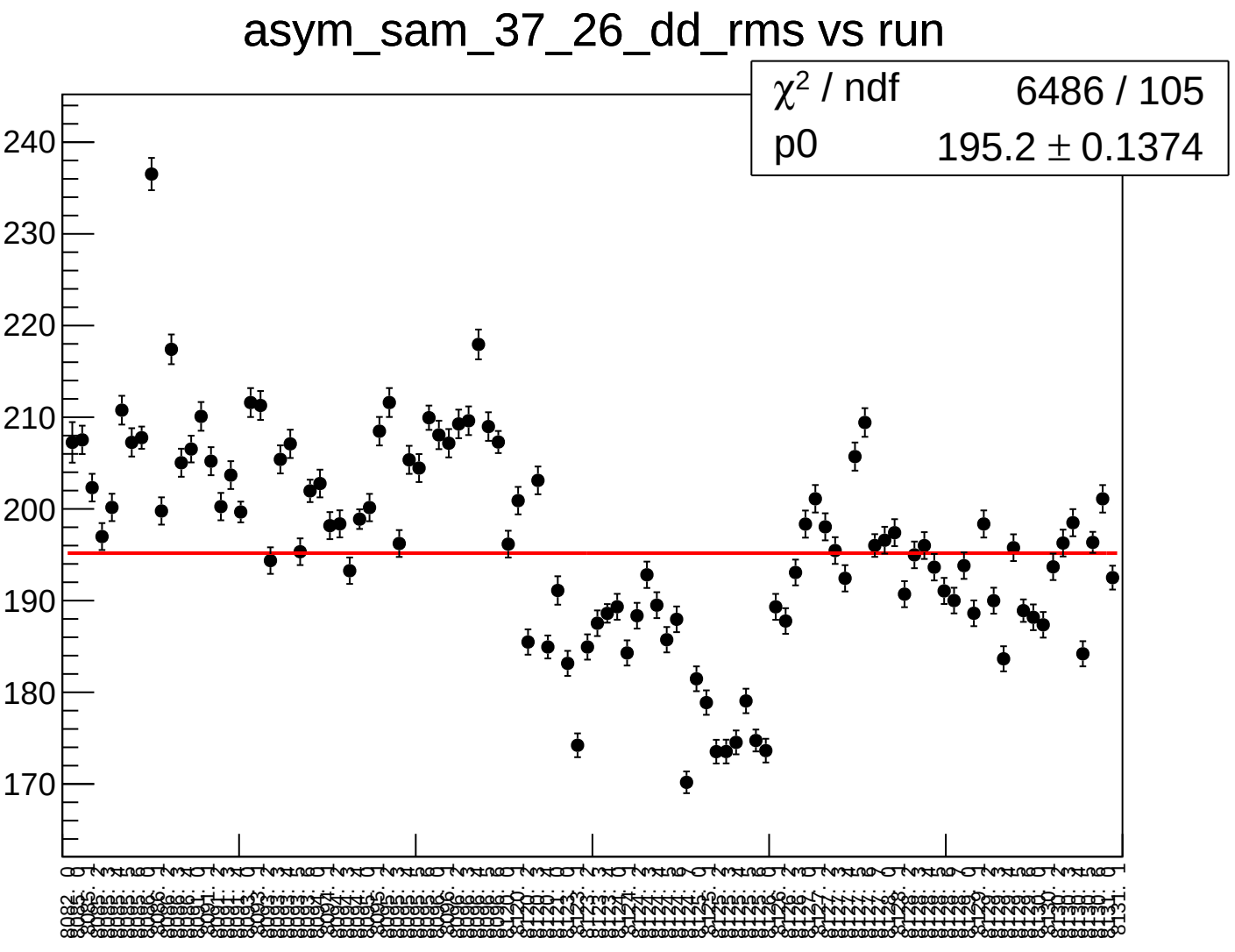

asym_sam_37_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 82.01 / 105
p0 −160.6 ± 185.1
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 106
Mean 304.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

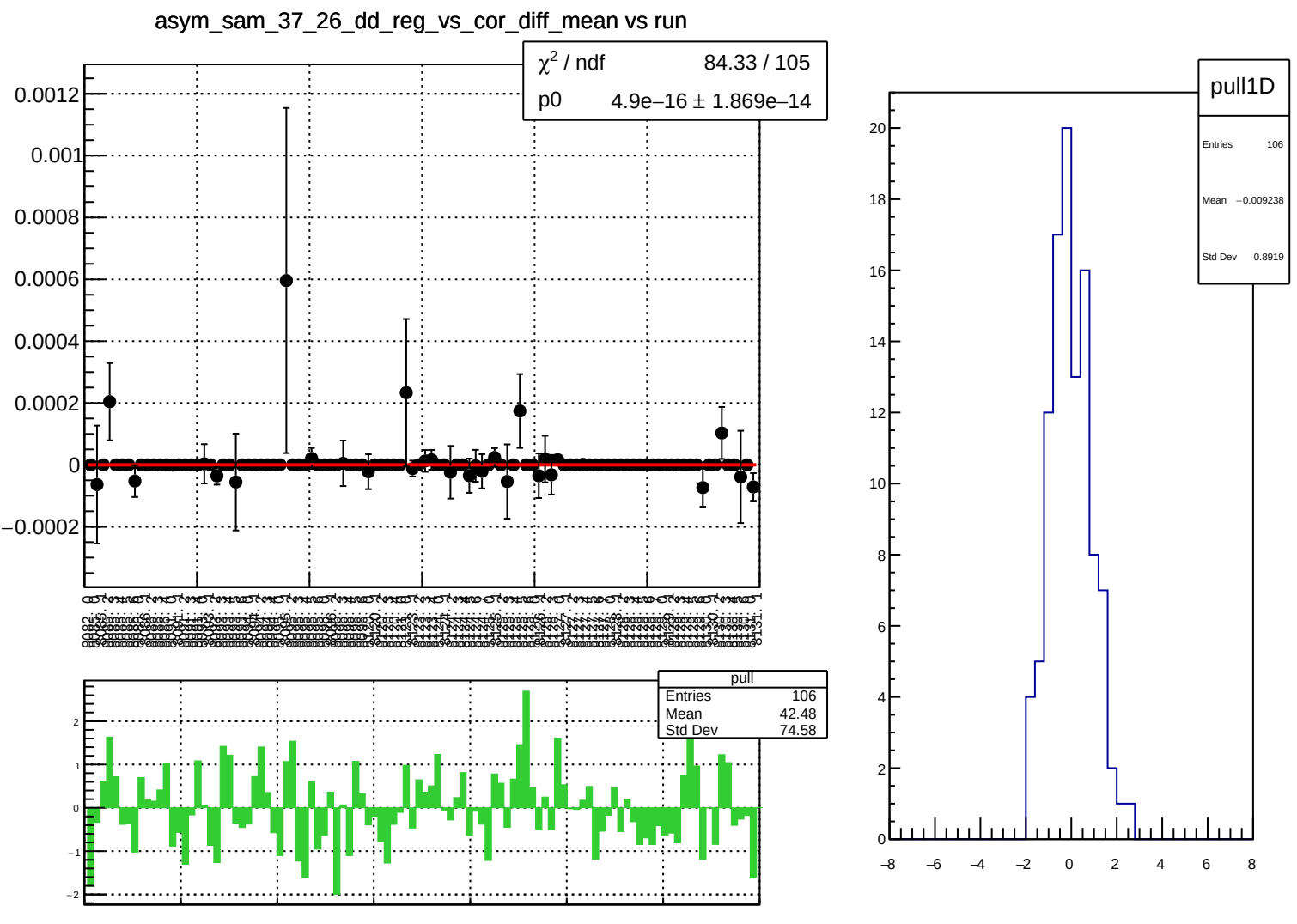

pull1D
Entries 106
Mean −0.003889
Std Dev 0.8796
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

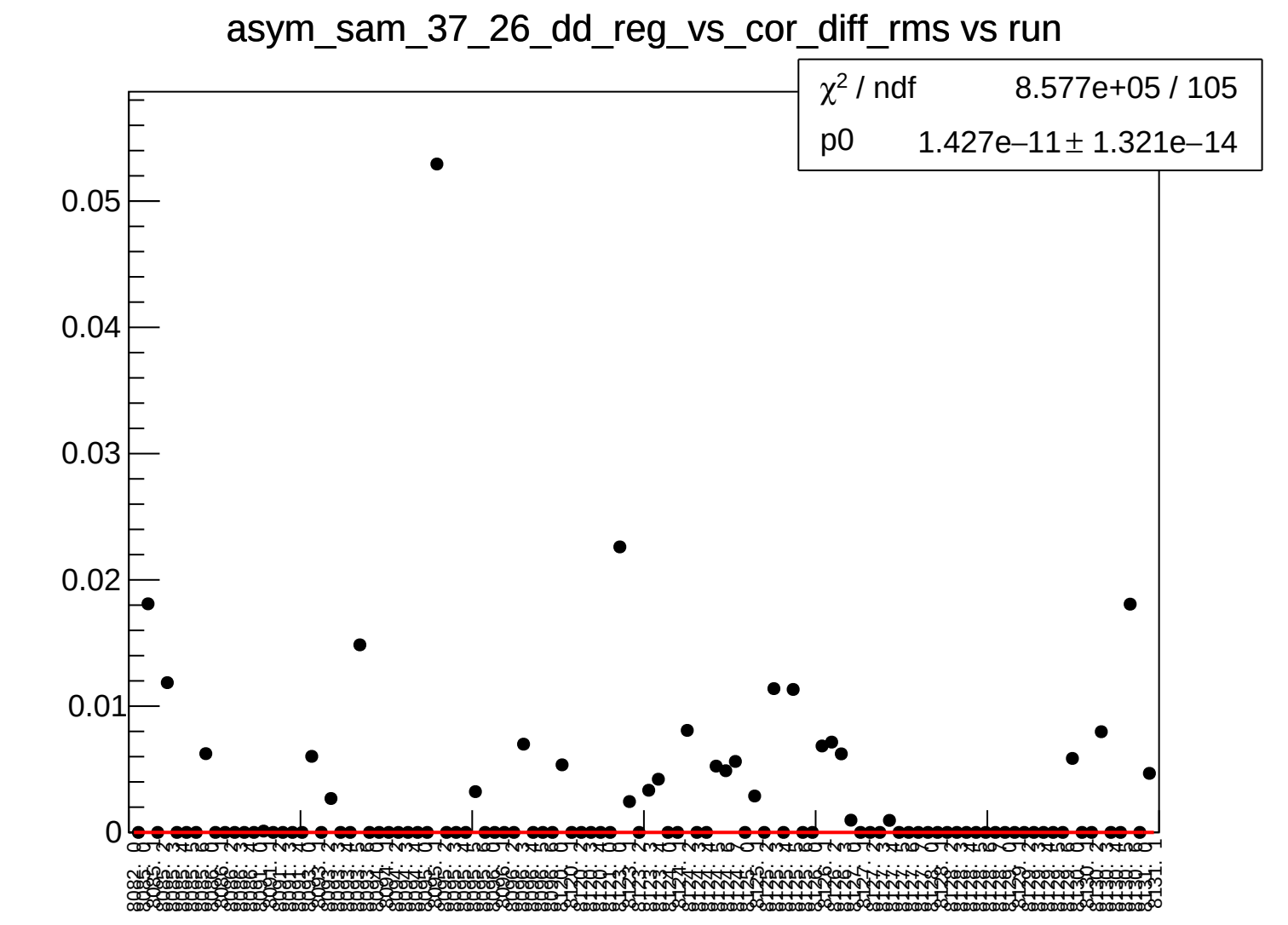

asym_sam_37_26_dd_eigen_dit_correction_rms vs run
$\chi^2$ / ndf 1.132e+04 / 105
p0 185.7 ± 0.1309
250
240
230
220
210
200
190
180
170
160

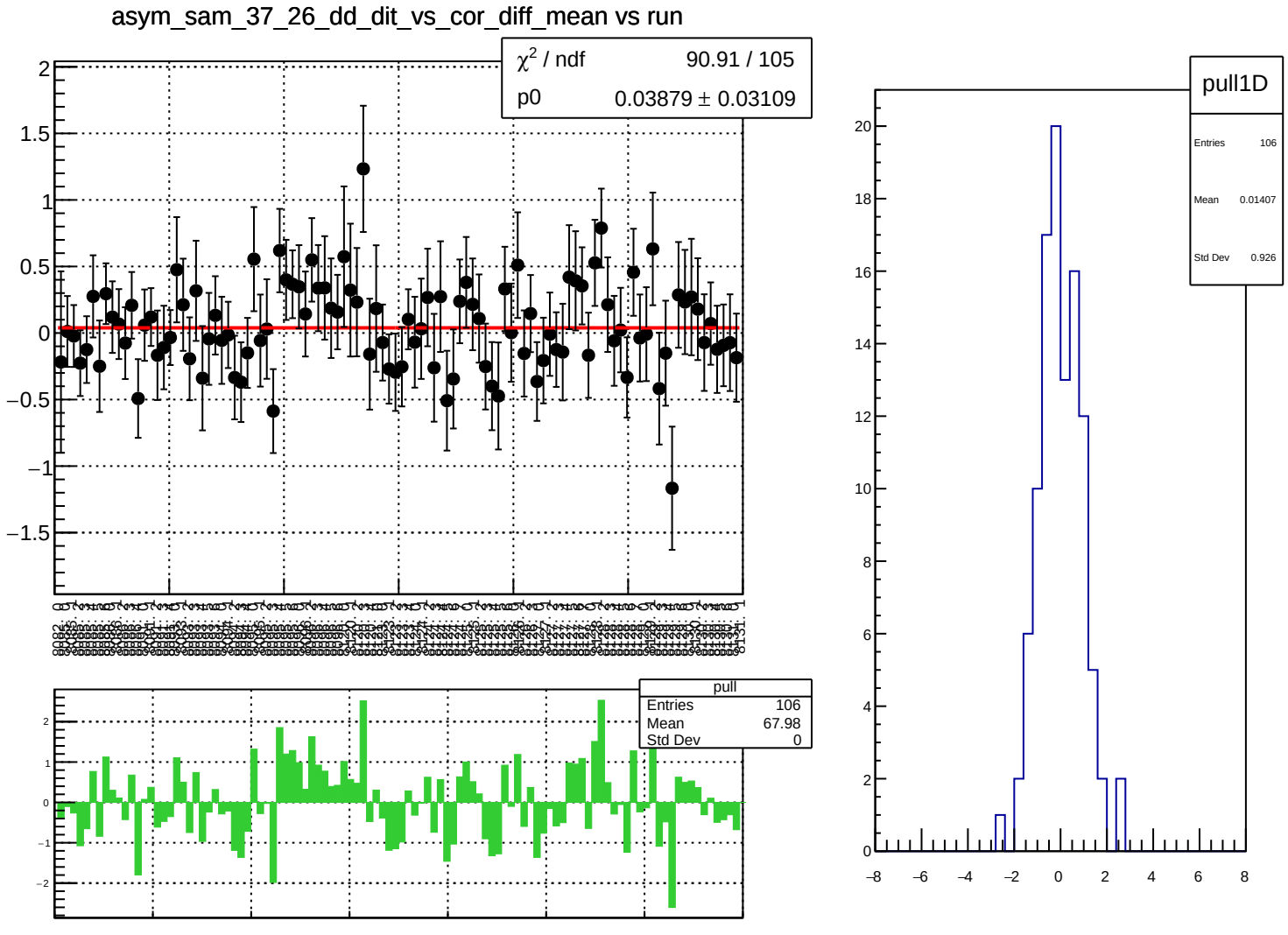

asym_sam_37_26_dd_mean vs run
χ² / ndf 77.17 / 105
p0 209 ± 194.4
pull
Entries 106
Mean 143.5
Std Dev 0

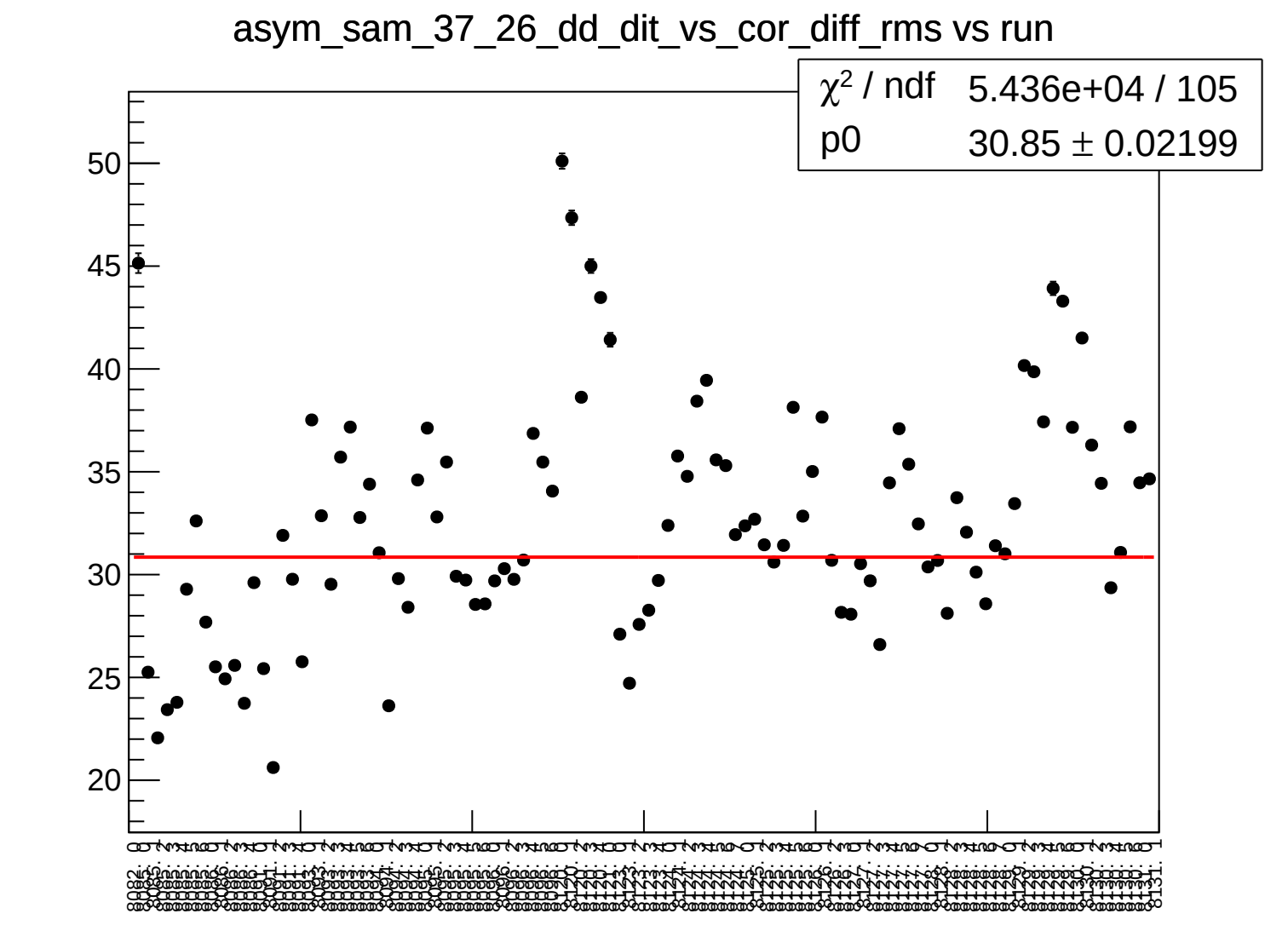

pull1D
Entries 106
Mean 0.006494
Std Dev 0.8532

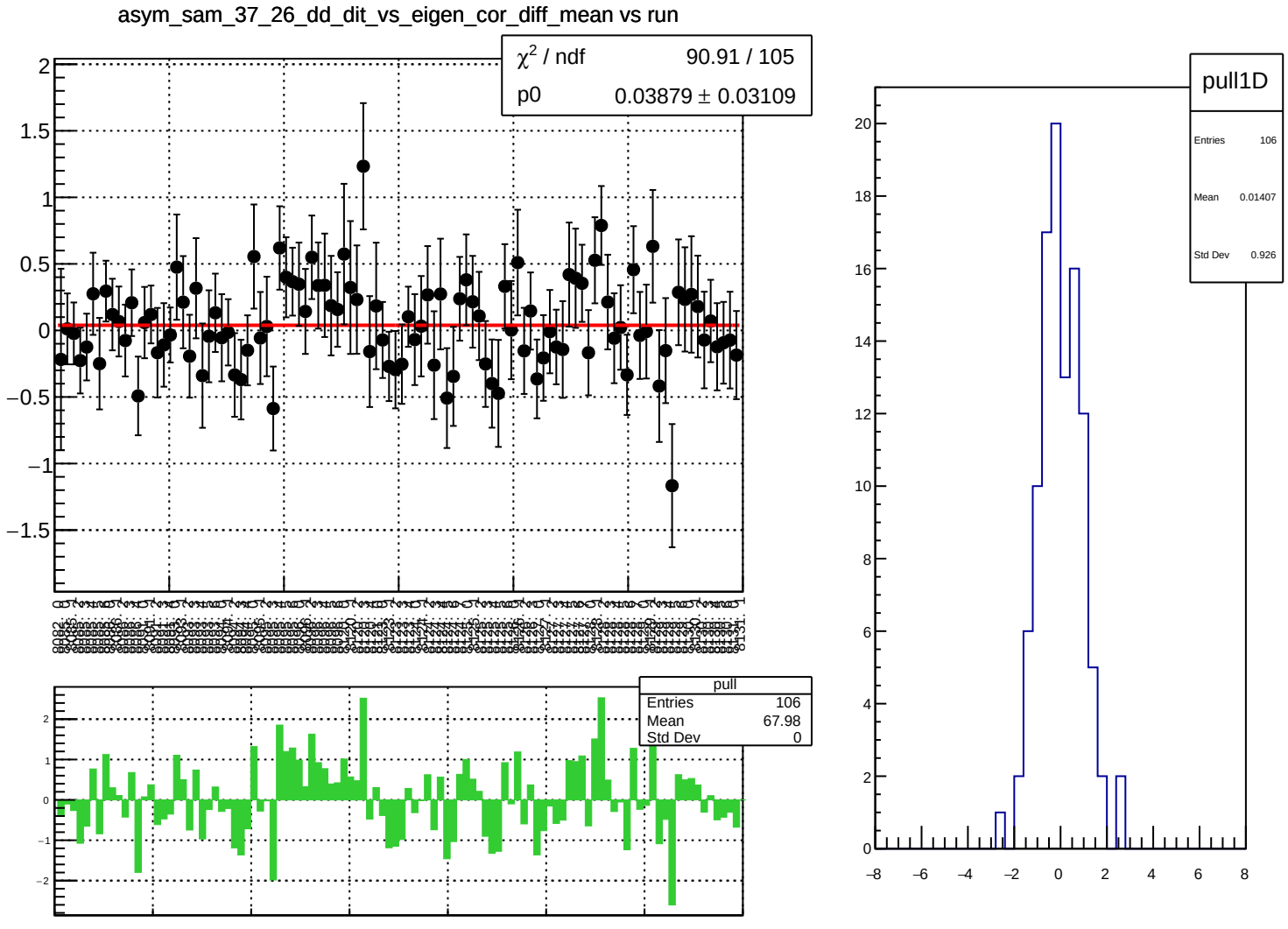

asym_sam_37_26_dd_rms vs run
χ² / ndf 6486 / 105
p0 195.2 ± 0.1374
240
230
220
210
200
190
180
170

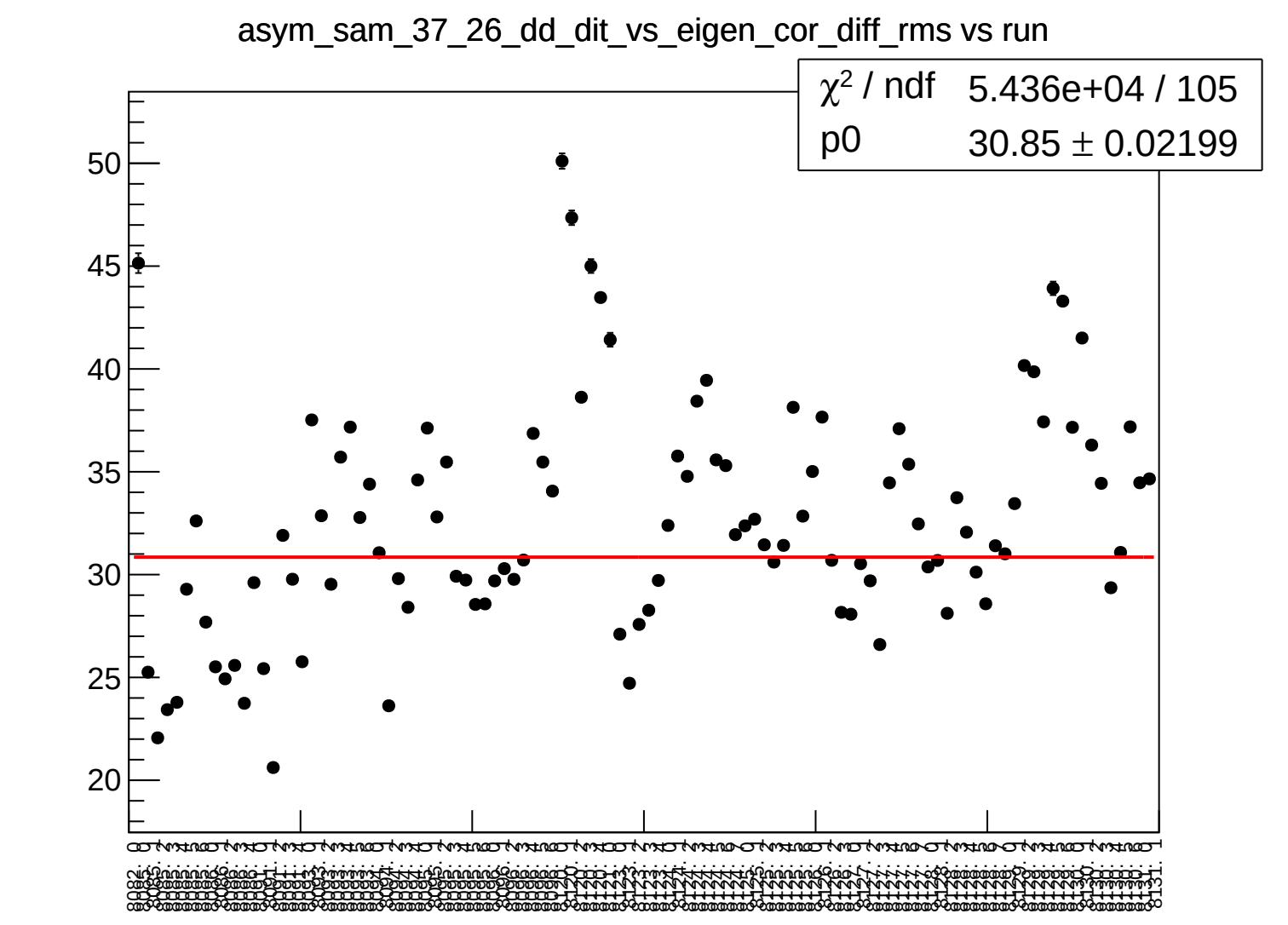

asym_sam_37_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 84.33 / 105
p0 4.9e−16 ± 1.869e−14
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
pull
Entries 106
Mean 42.48
Std Dev 74.58
2
1
0
−1
−2
pull1D
Entries 106
Mean −0.009238
Std Dev 0.8919
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

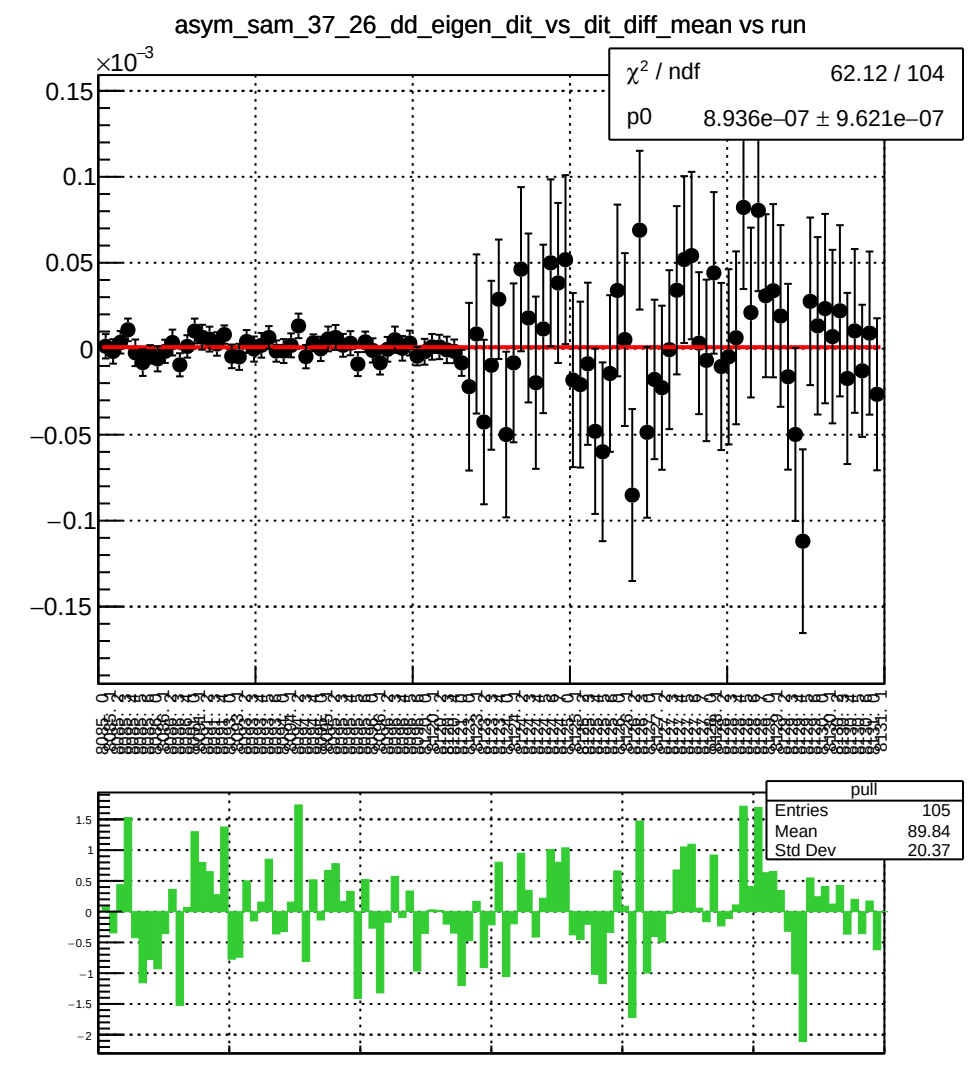

asym_sam_37_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 8.577e+05 / 105
p0 1.427e−11 ± 1.321e−14
0.05
0.04
0.03
0.02
0.01
0

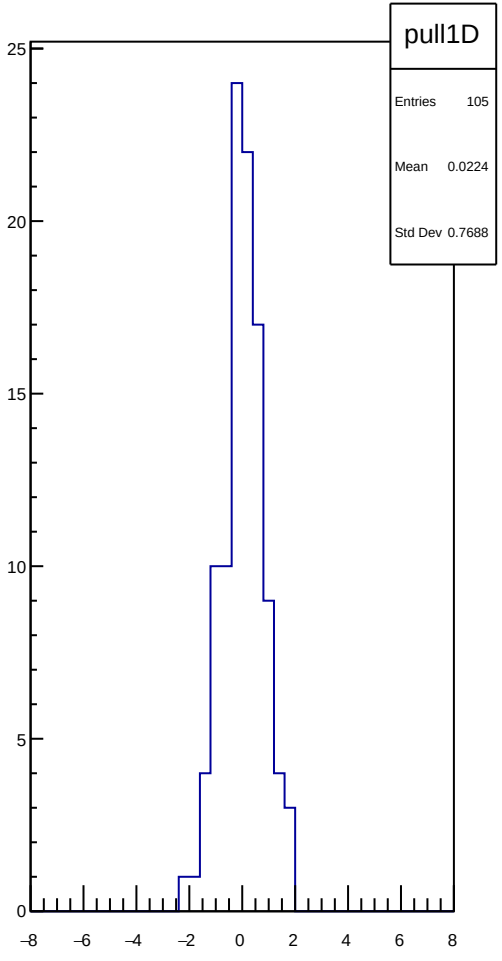

asym_sam_37_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 90.91 / 105
p0 0.03879 ± 0.03109
pull
Entries 106
Mean 67.98
Std Dev 0
pull1D
Entries 106
Mean 0.01407
Std Dev 0.926

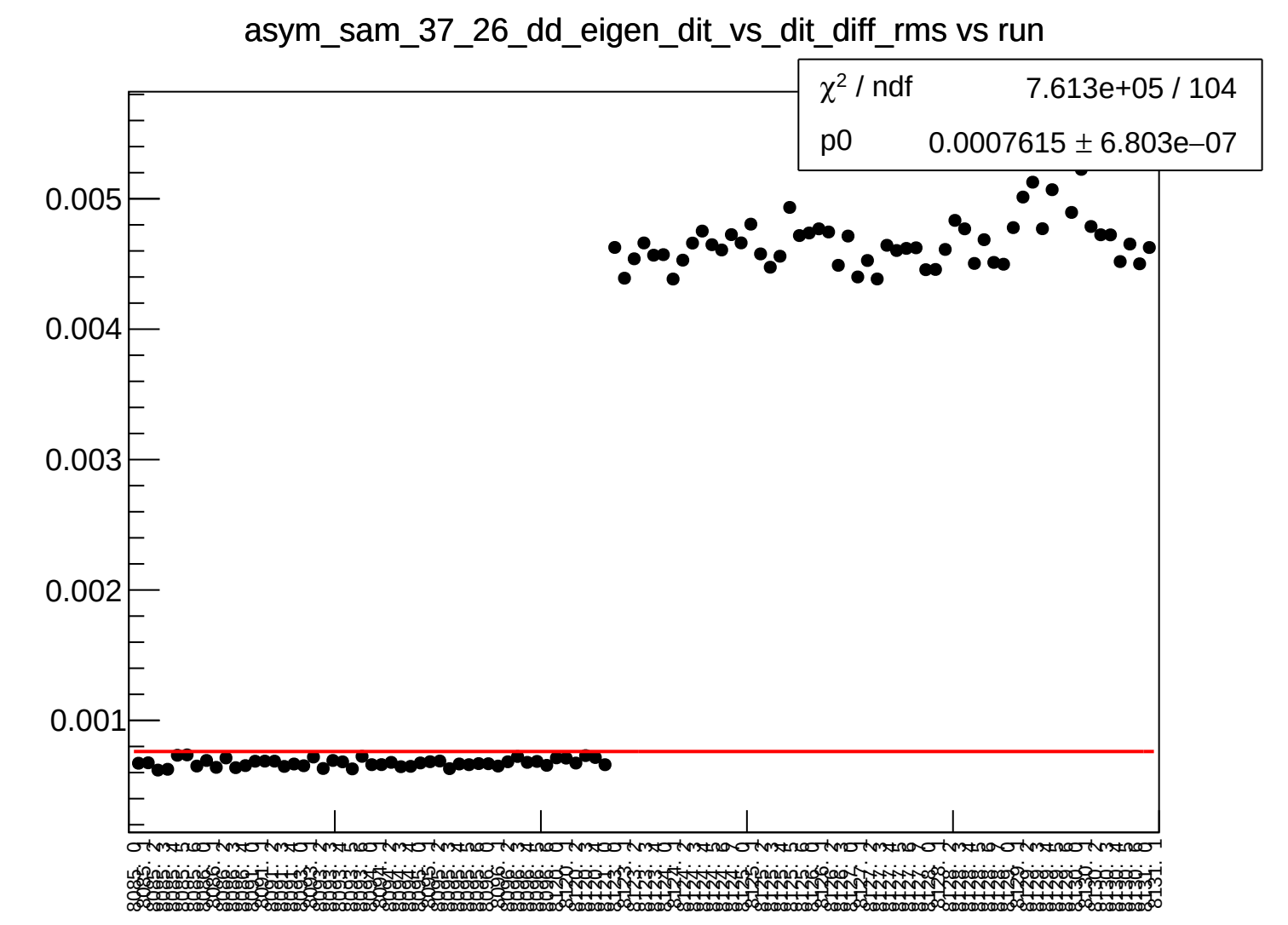

asym_sam_37_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.436e+04 / 105
p0 30.85 ± 0.02199
50
45
40
35
30
25
20

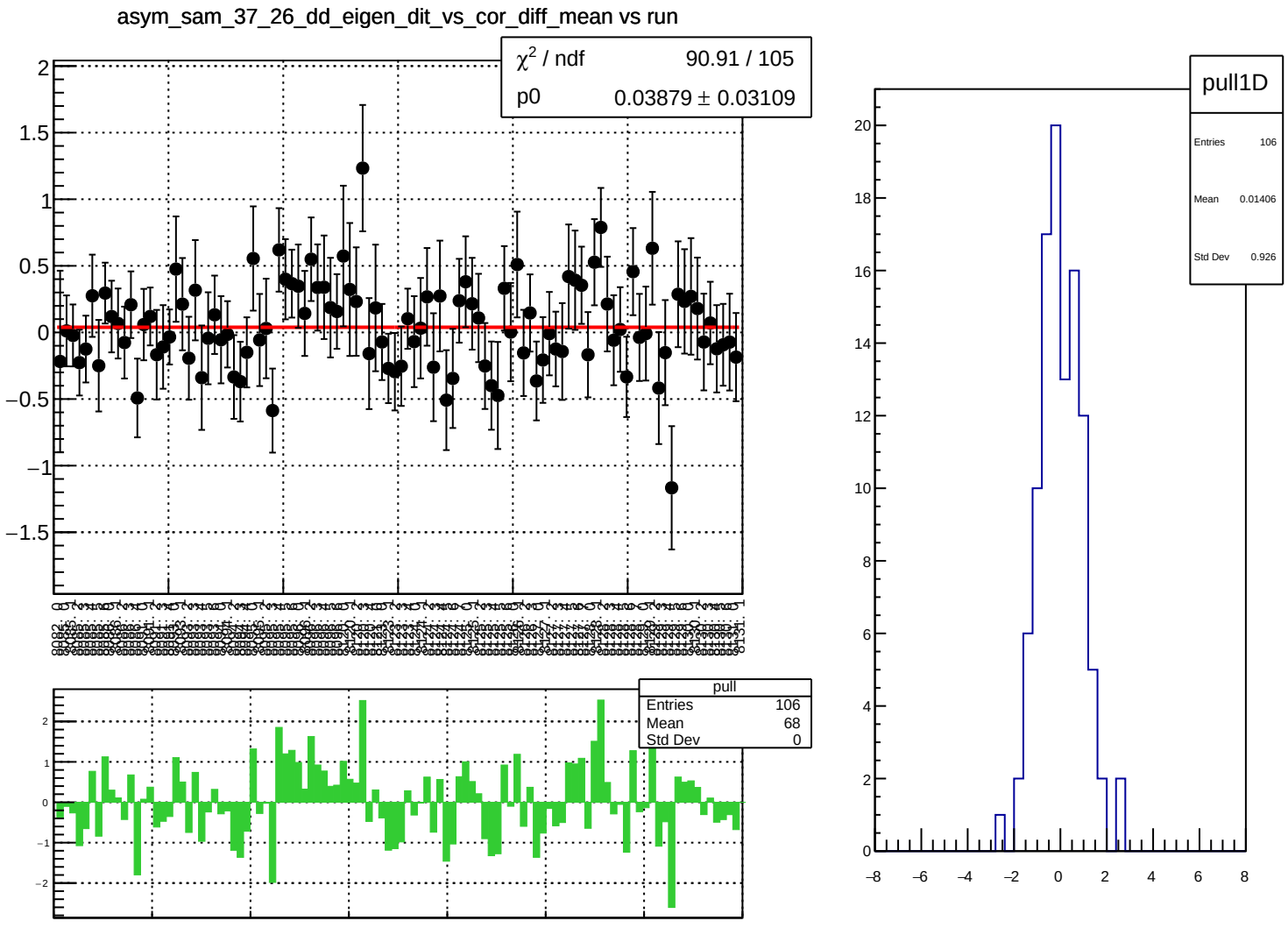

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.91 / 105
p0 0.03879 ± 0.03109
pull
Entries 106
Mean 67.98
Std Dev 0
pull1D
Entries 106
Mean 0.01407
Std Dev 0.926

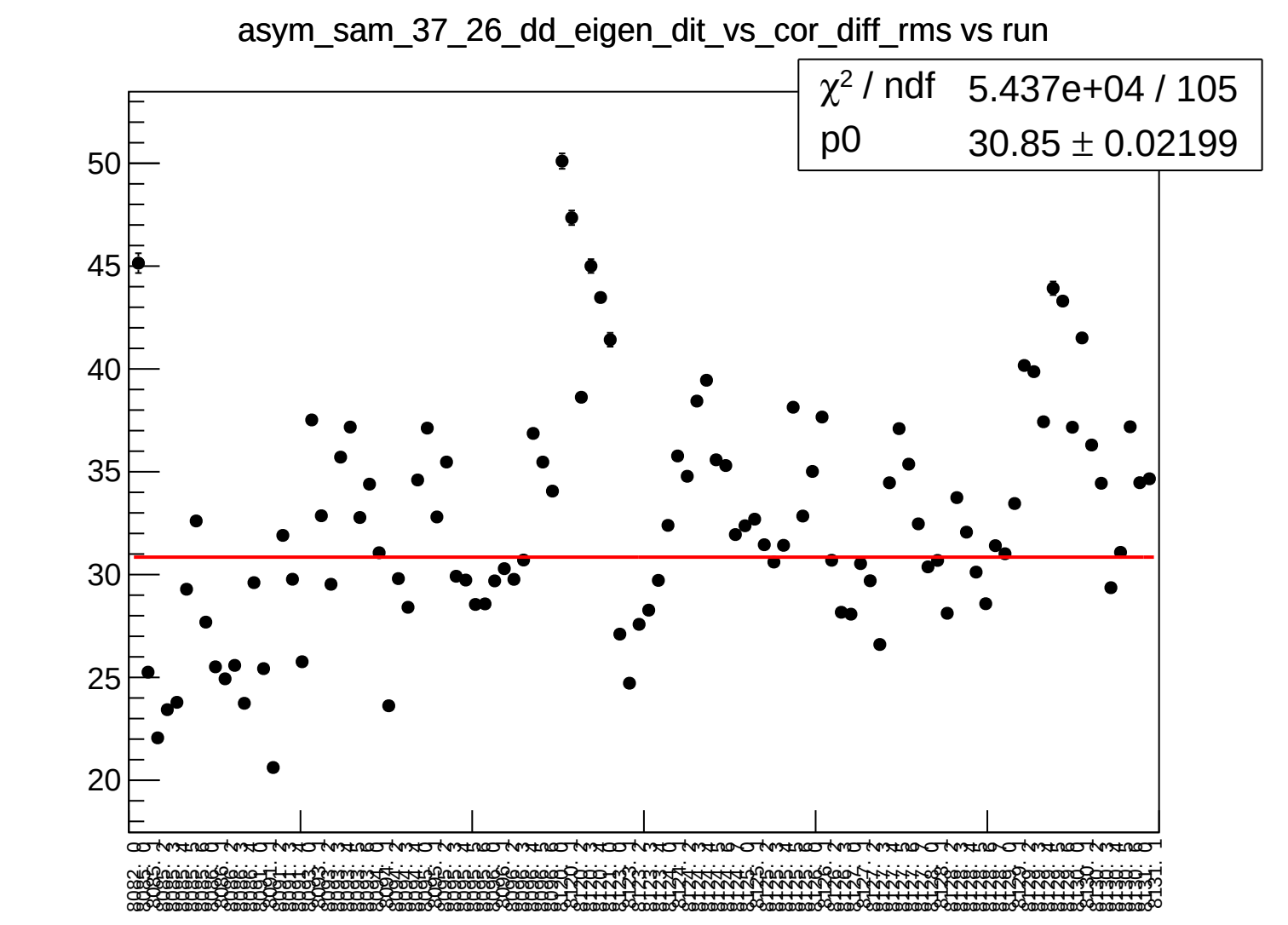

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.436e+04 / 105
p0 30.85 ± 0.02199
50
45
40
35
30
25
20

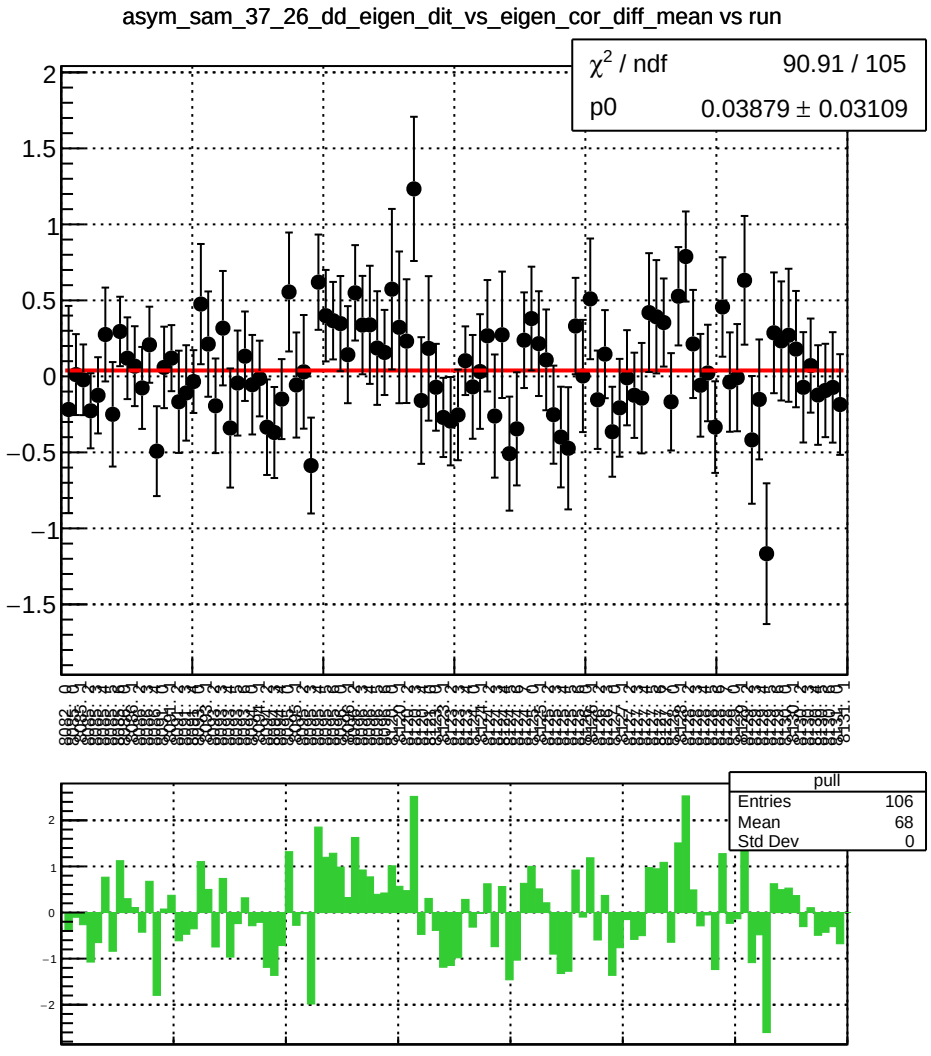

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 62.12 / 104
p0 8.936e−07 ± 9.621e−07
pull
Entries 105
Mean 89.84
Std Dev 20.37

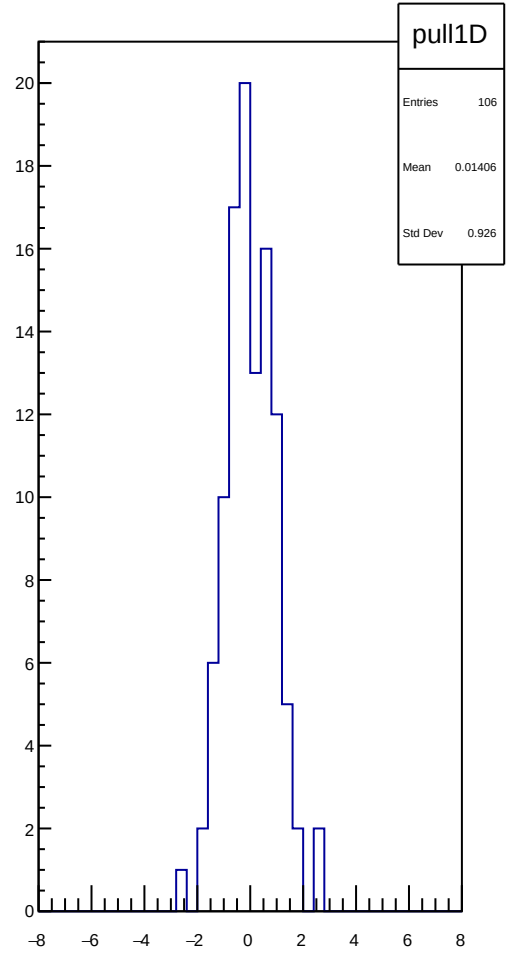

pull1D
Entries 105
Mean 0.0224
Std Dev 0.7688

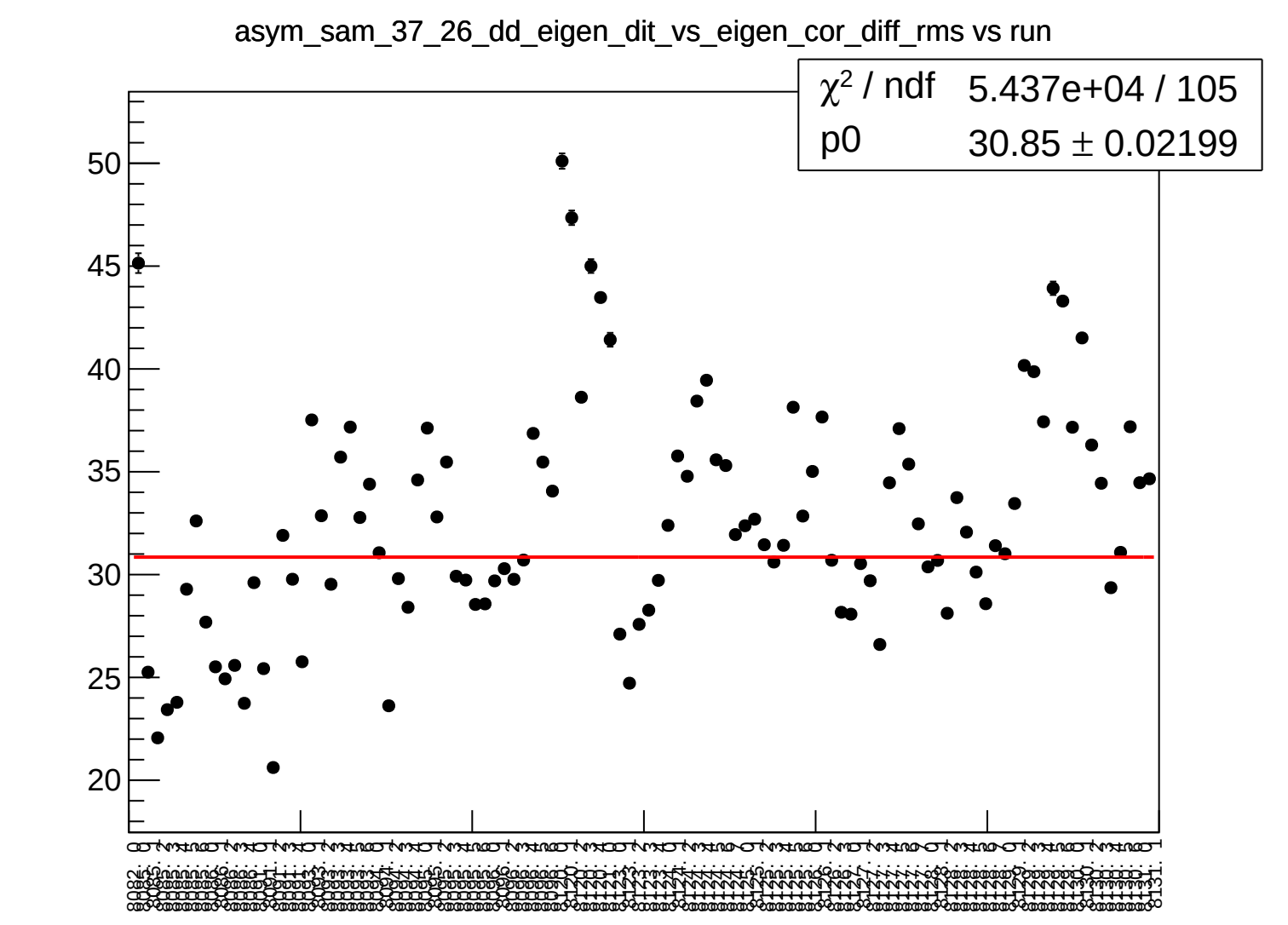

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.613e+05 / 104
p0 0.0007615 ± 6.803e−07
0.005
0.004
0.003
0.002
0.001

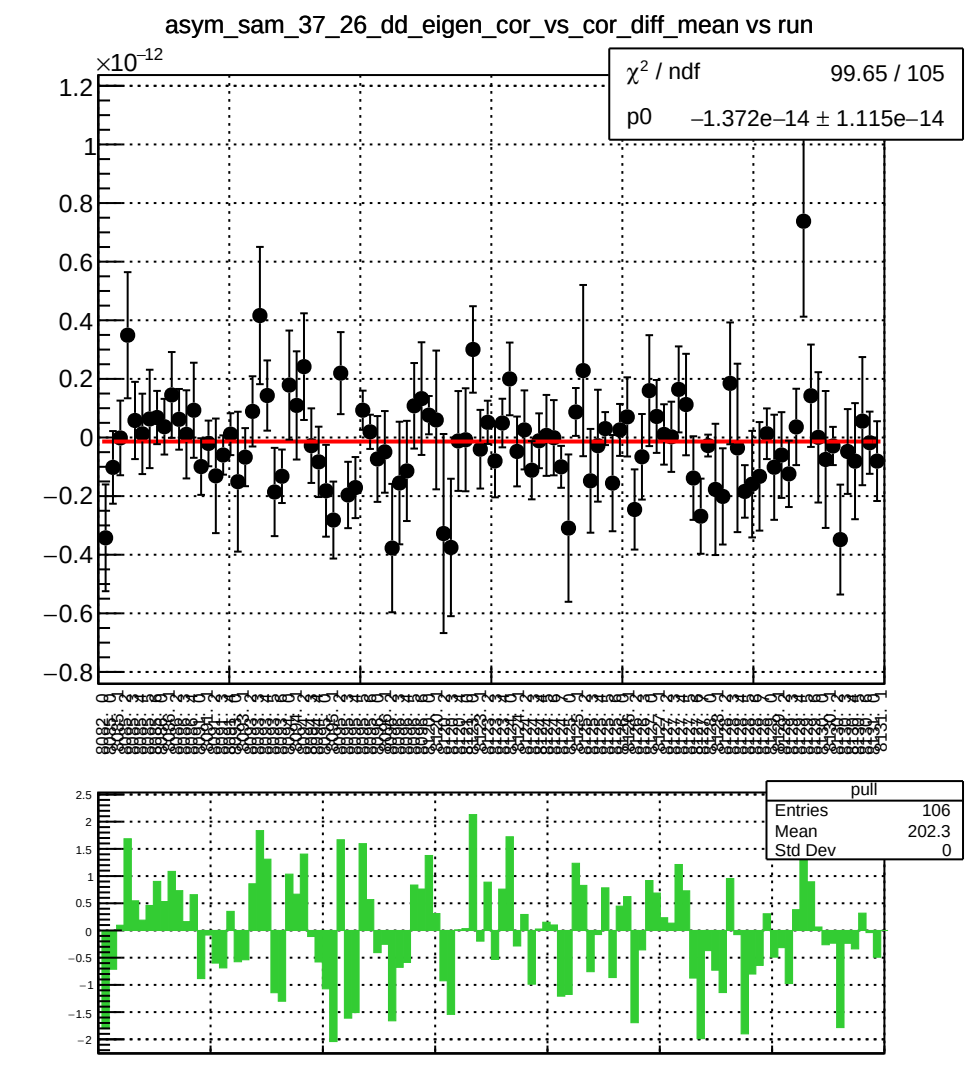

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 90.91 / 105
p0 0.03879 ± 0.03109
pull
Entries 106
Mean 68
Std Dev 0
pull1D
Entries 106
Mean 0.01406
Std Dev 0.926

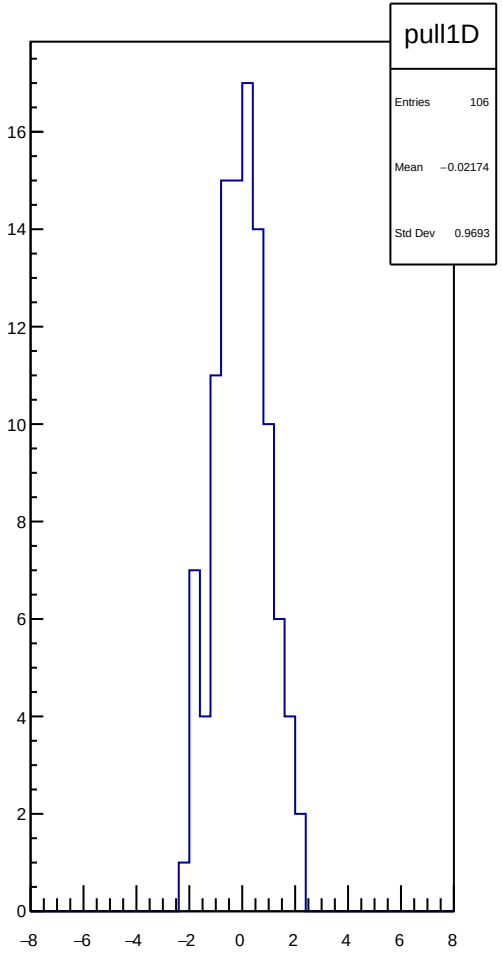

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.437e+04 / 105
p0 30.85 ± 0.02199
50
45
40
35
30
25
20

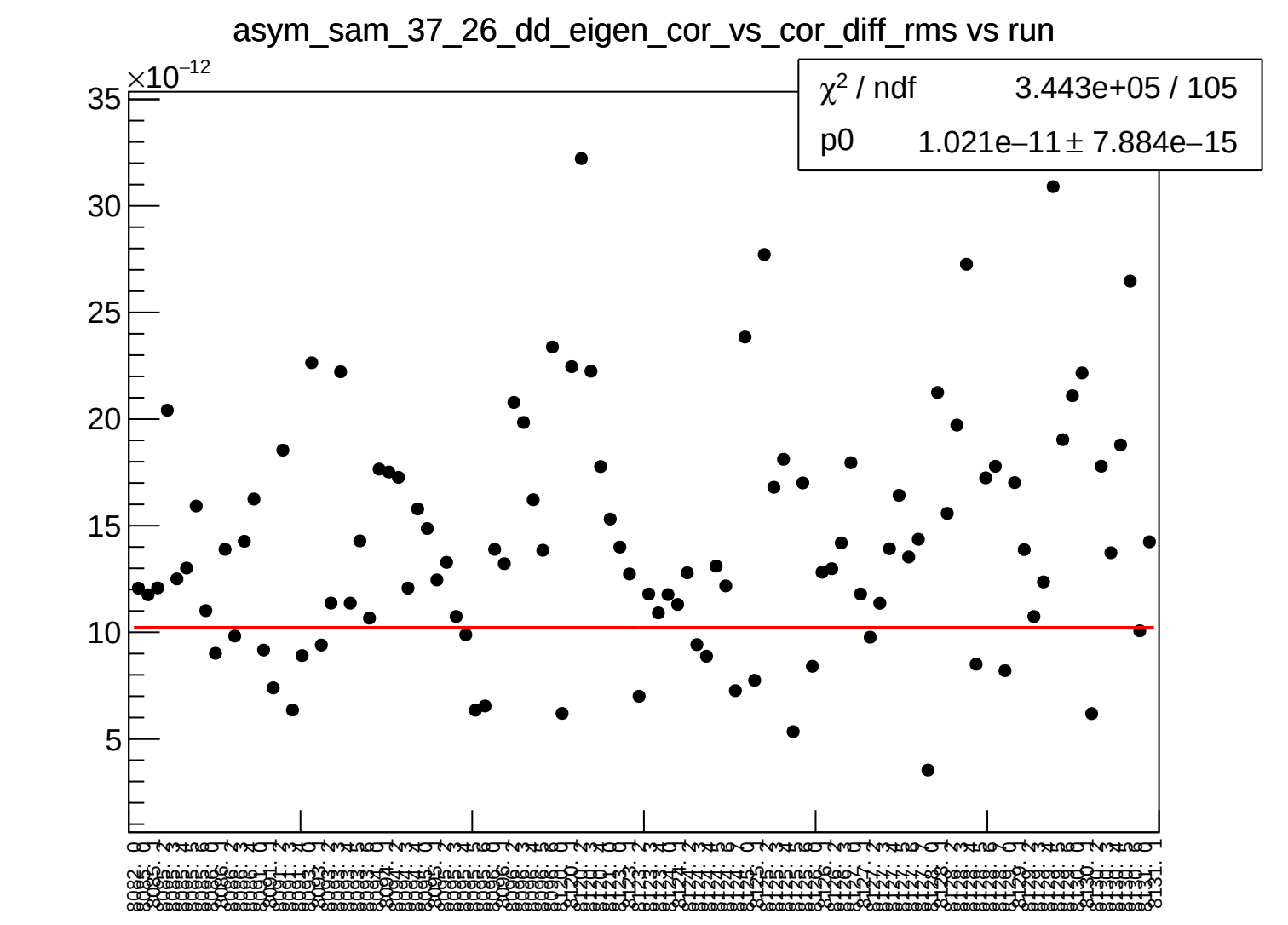

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 90.91 / 105
p0 0.03879 ± 0.03109
pull
Entries 106
Mean 68
Std Dev 0

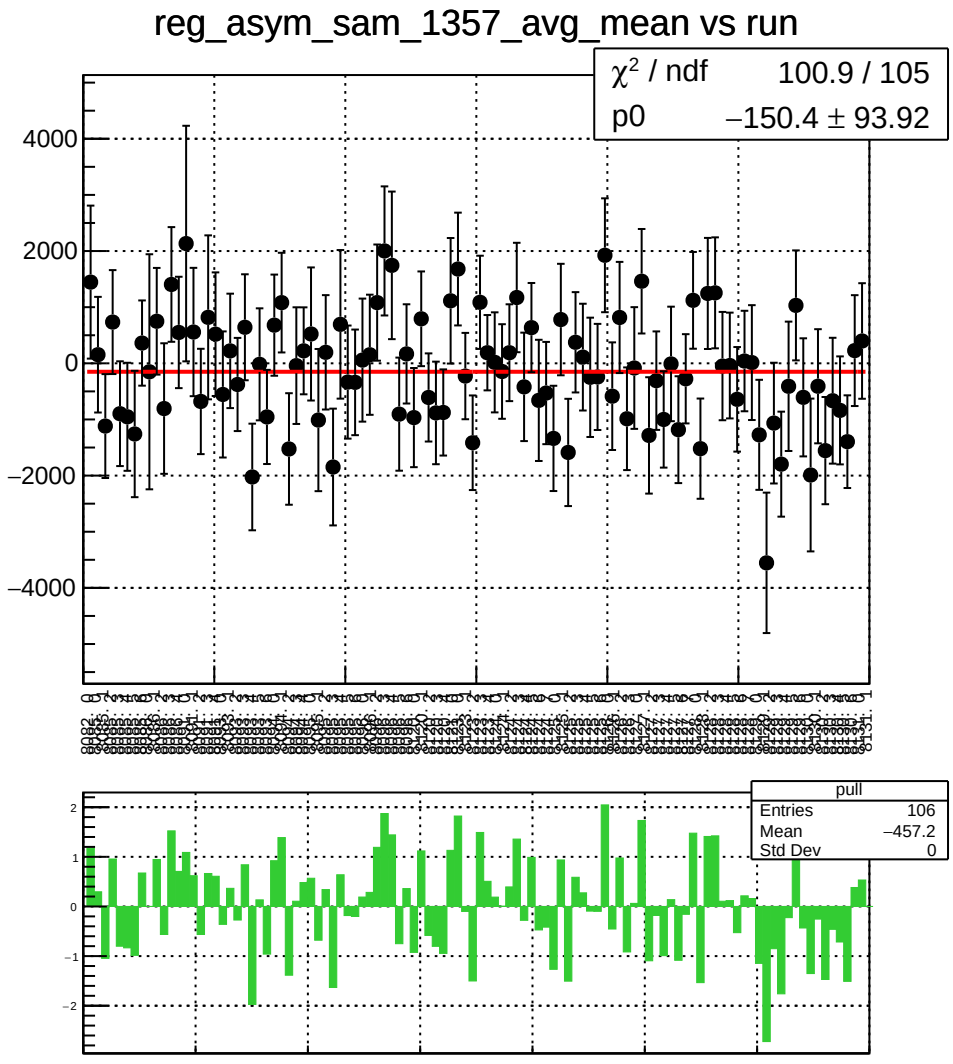

pull1D
Entries 106
Mean 0.01406
Std Dev 0.926

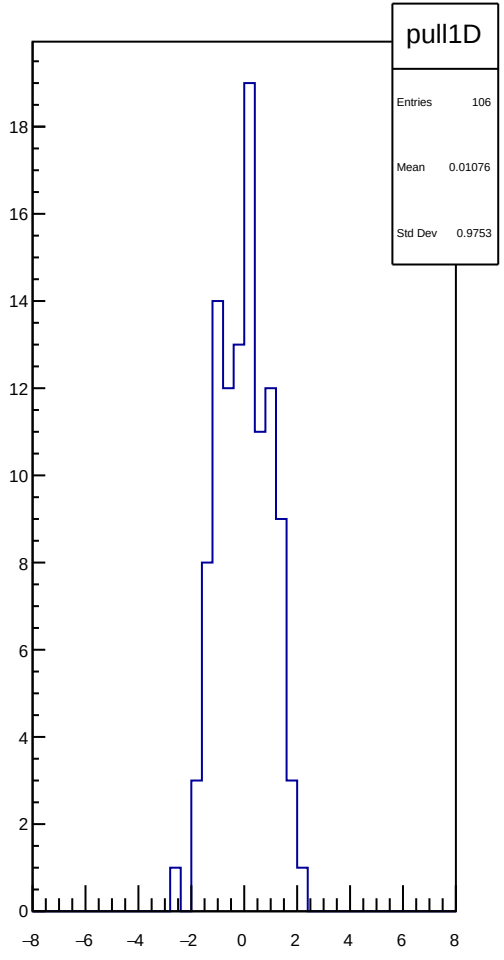

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.437e+04 / 105
p0 30.85 ± 0.02199
50
45
40
35
30
25
20

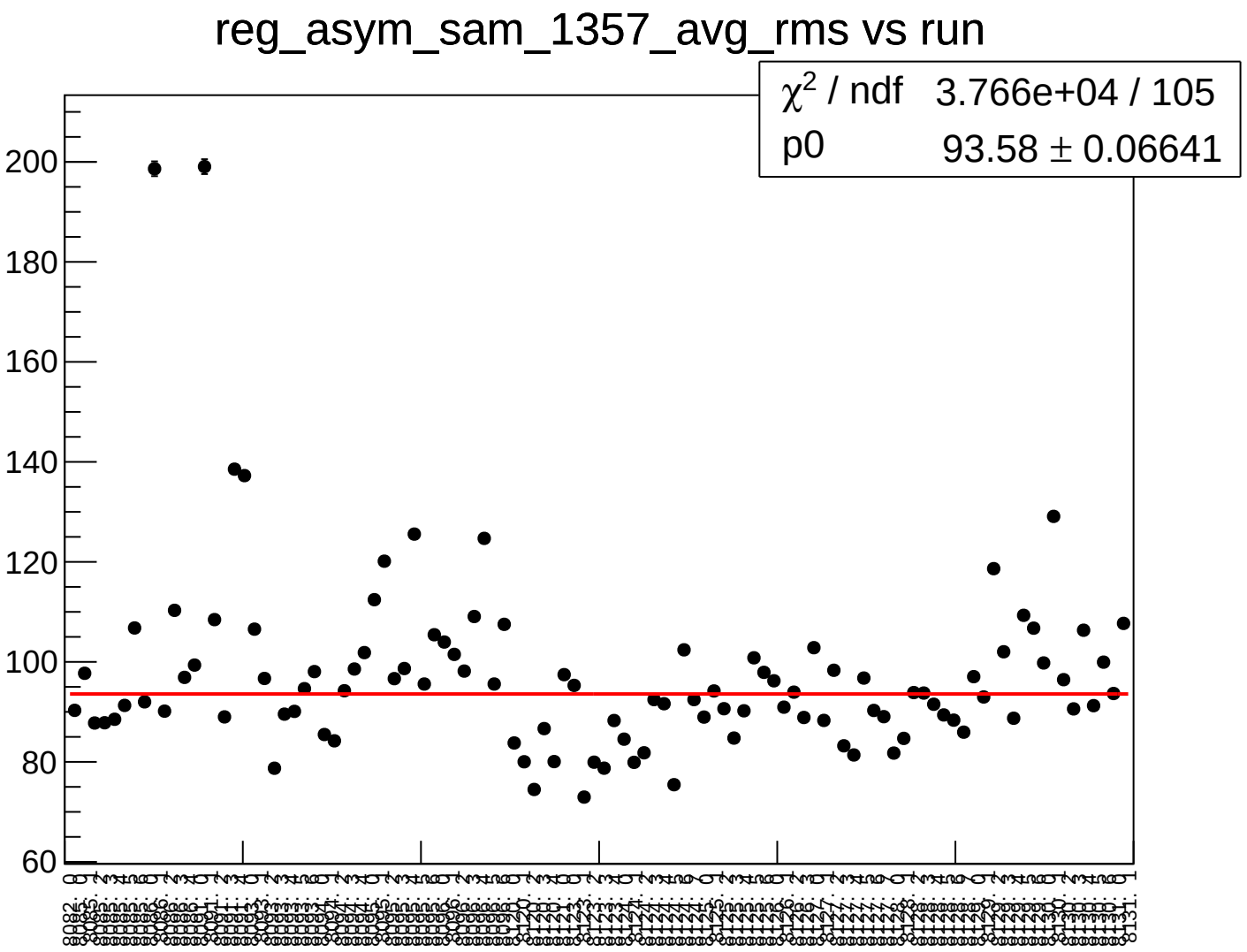

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 99.65 / 105
p0 −1.372e−14 ± 1.115e−14
pull
Entries 106
Mean 202.3
Std Dev 0

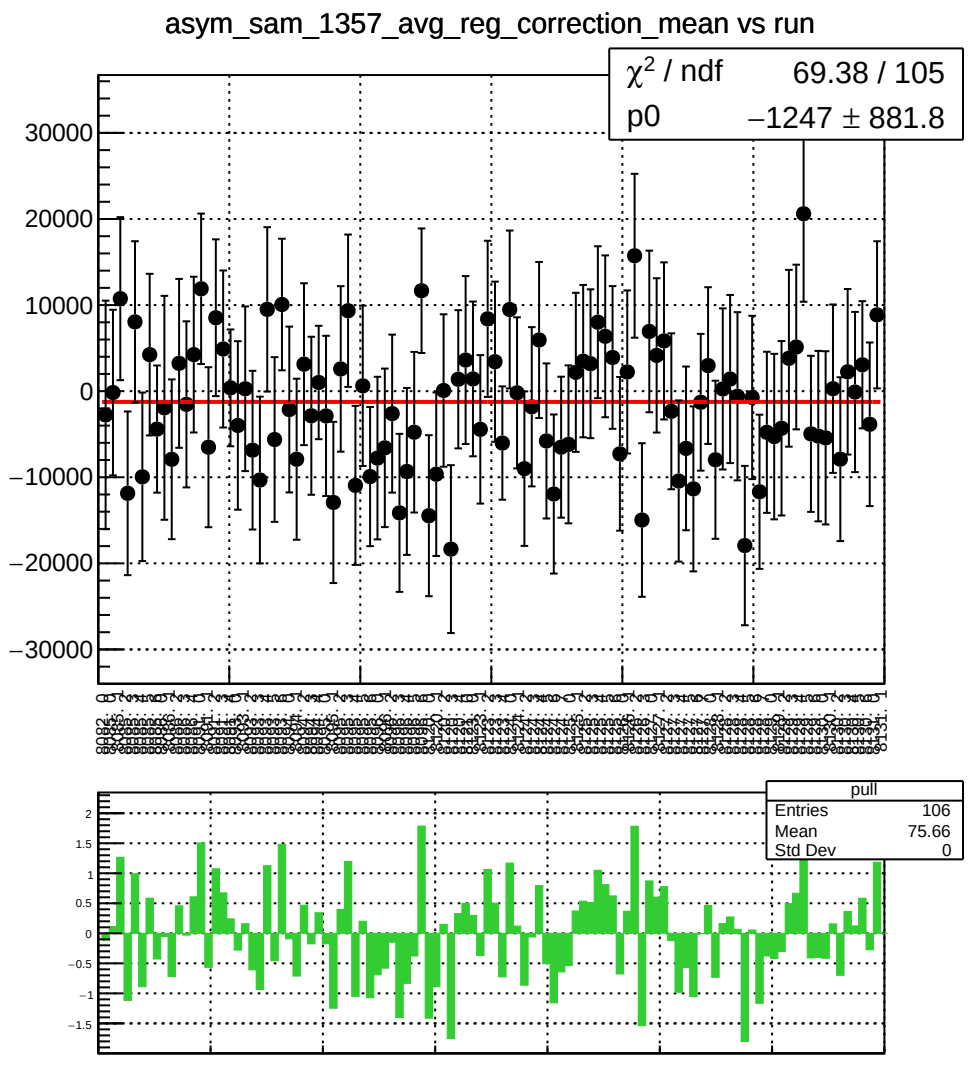

pull1D
Entries 106
Mean −0.02174
Std Dev 0.9693

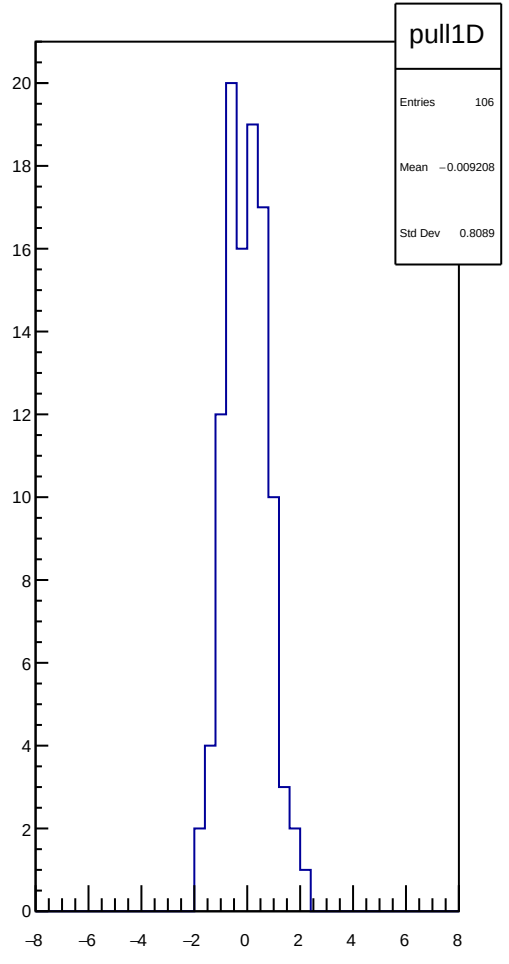

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
35
30
25
20
15
10
5
χ² / ndf 3.443e+05 / 105
p0 1.021e−11 ± 7.884e−15


reg_asym_sam_1357_avg_mean vs run
χ² / ndf 100.9 / 105
p0 −150.4 ± 93.92
4000
2000
0
−2000
−4000
pull
Entries 106
Mean −457.2
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 106
Mean 0.01076
Std Dev 0.9753
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_sam_1357_avg_rms vs run
$\chi^2$ / ndf 3.766e+04 / 105
p0 93.58 ± 0.06641
200
180
160
140
120
100
80
60


asym_sam_1357_avg_reg_correction_mean vs run
χ² / ndf 69.38 / 105
p0 −1247 ± 881.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 106
Mean 75.66
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 106
Mean −0.009208
Std Dev 0.8089
20
18
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14
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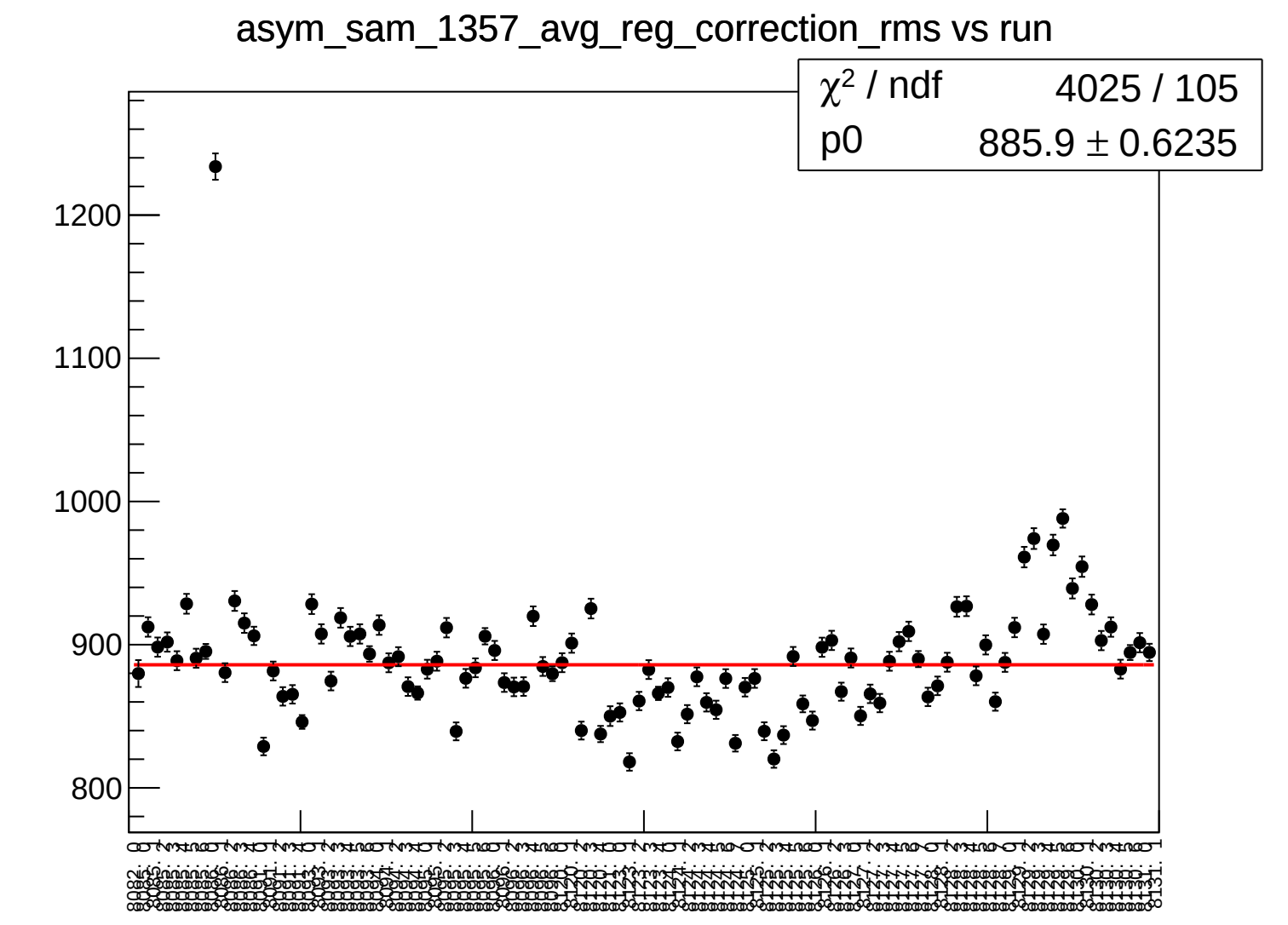
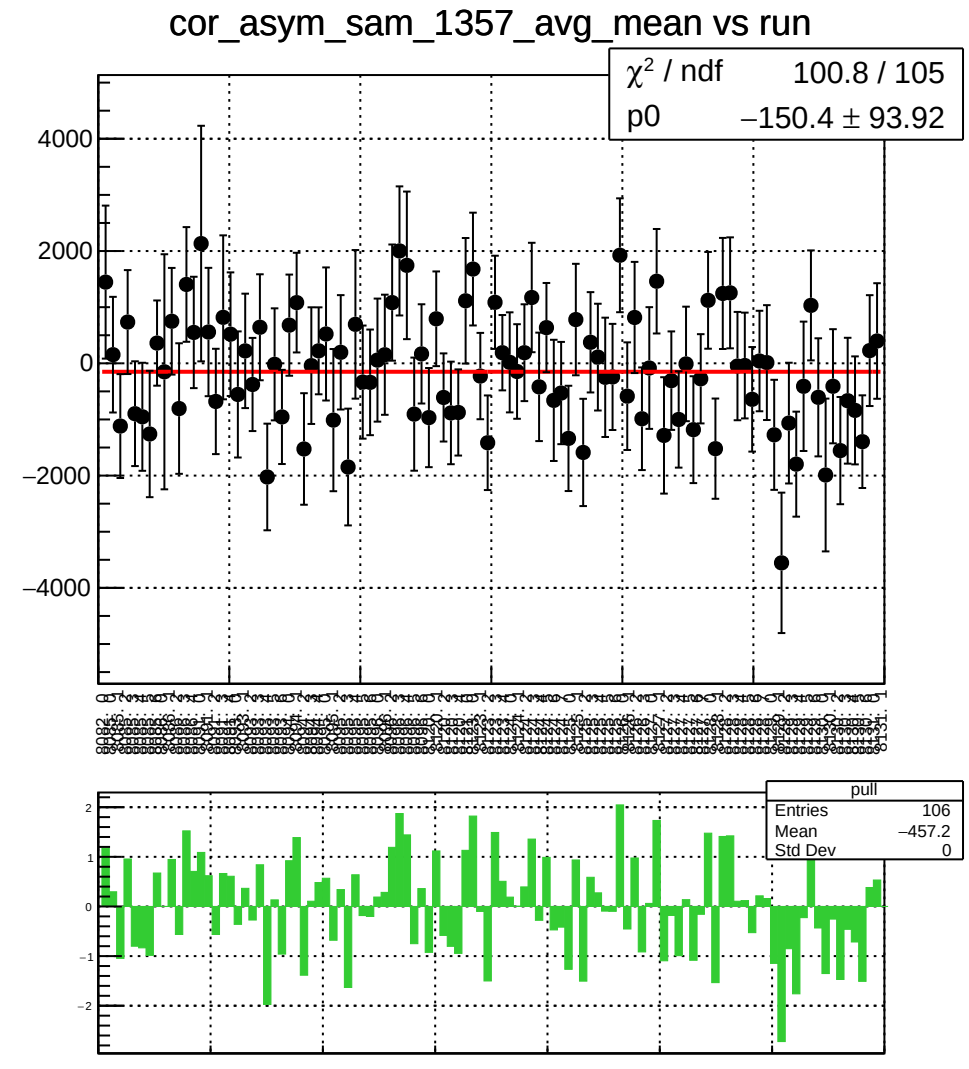
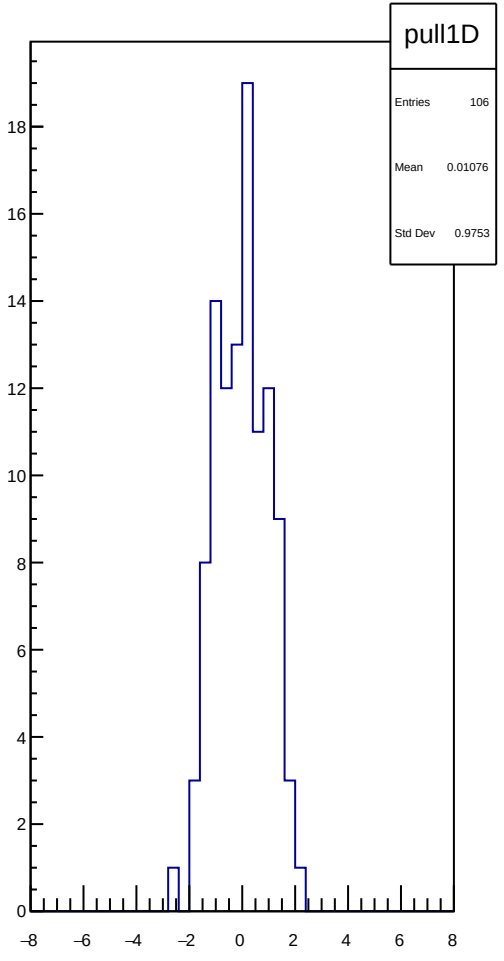
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1357_avg_reg_correction_rms vs run
χ² / ndf 4025 / 105
p0 885.9 ± 0.6235
1200
1100
1000
900
800


cor_asym_sam_1357_avg_mean vs run
χ² / ndf 100.8 / 105
p0 −150.4 ± 93.92
4000
2000
0
−2000
−4000
pull
Entries 106
Mean −457.2
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 106
Mean 0.01076
Std Dev 0.9753
18
16
14
12
10
8
6
4
2
0
−8
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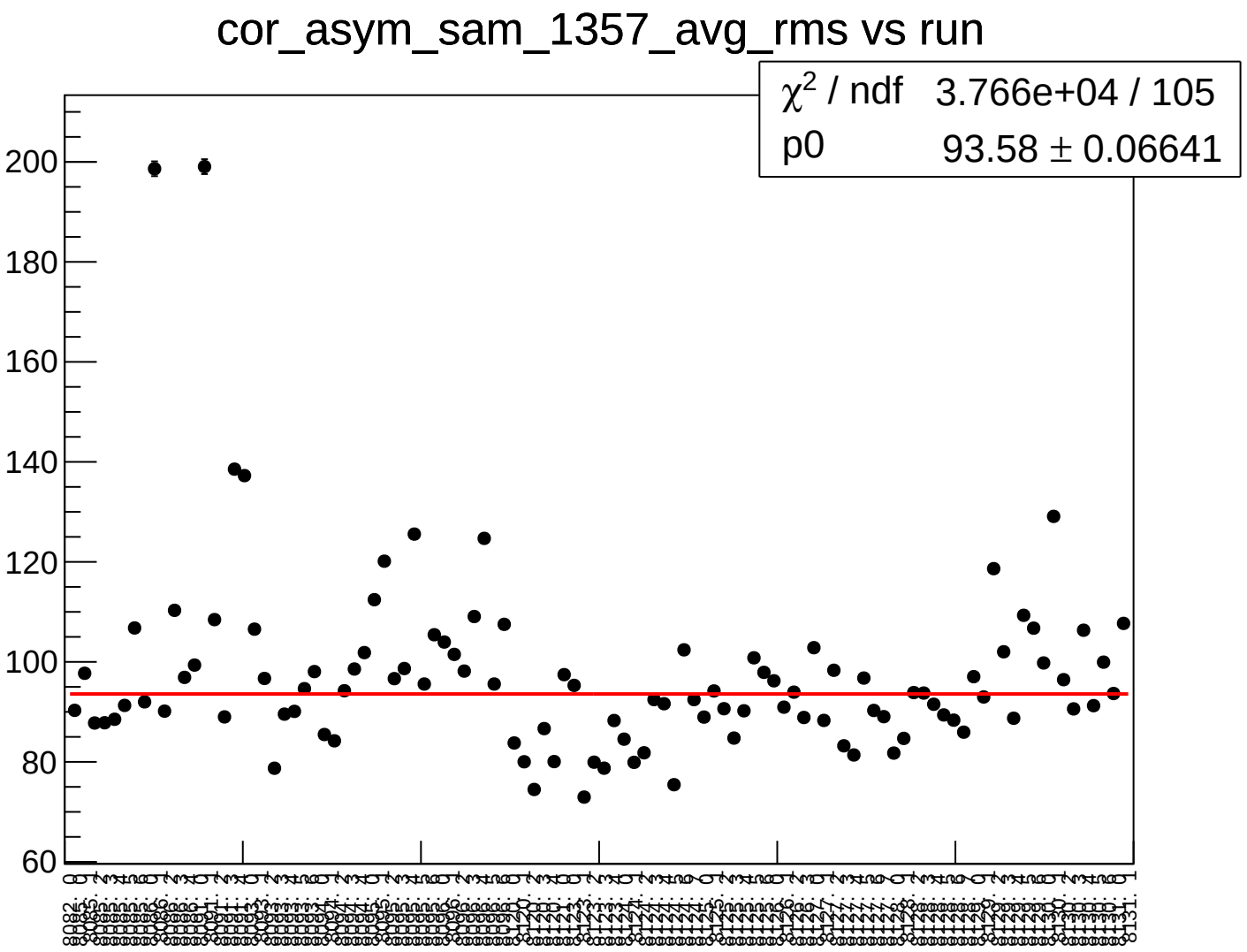
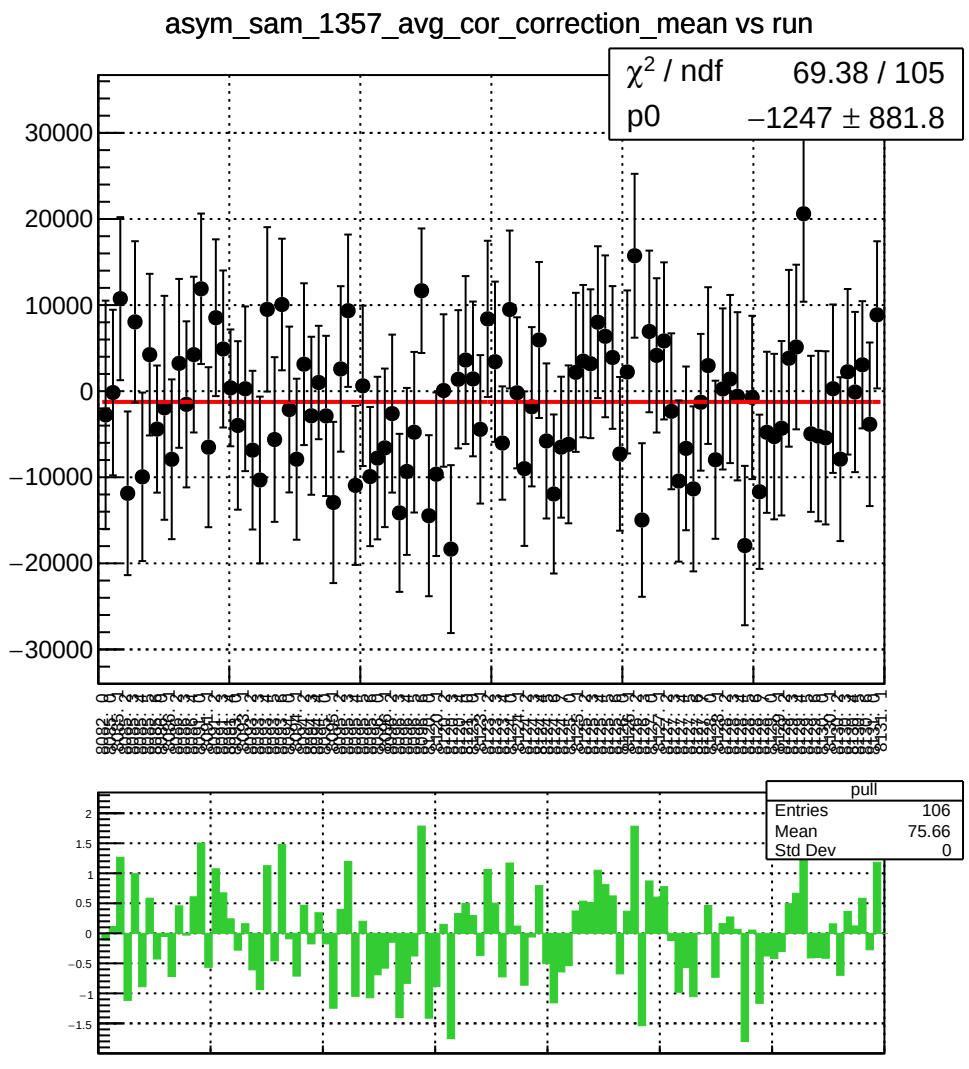
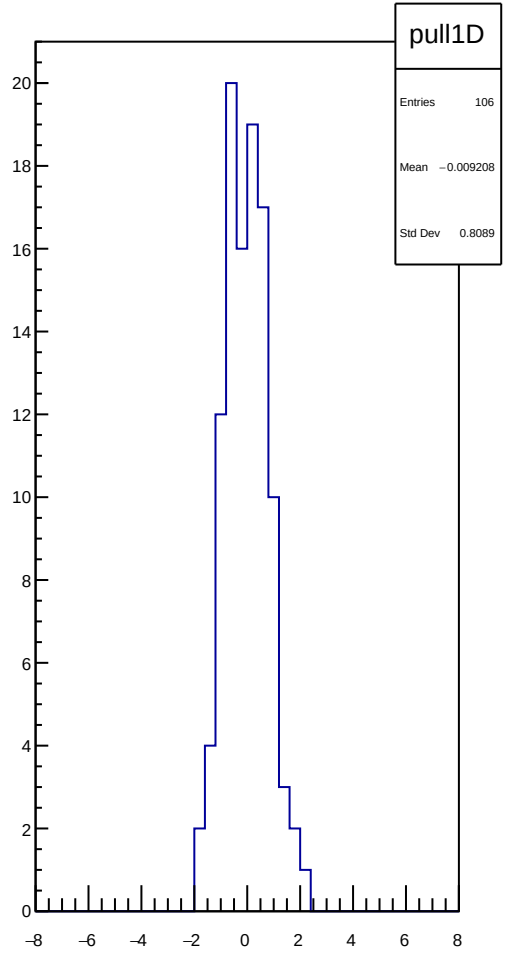
2
4
6
8


cor_asym_sam_1357_avg_rms vs run
χ² / ndf 3.766e+04 / 105
p0 93.58 ± 0.06641
200
180
160
140
120
100
80
60


asym_sam_1357_avg_cor_correction_mean vs run
χ² / ndf 69.38 / 105
p0 −1247 ± 881.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 106
Mean 75.66
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 106
Mean −0.009208
Std Dev 0.8089
20
18
16
14
12
10
8
6
4
2
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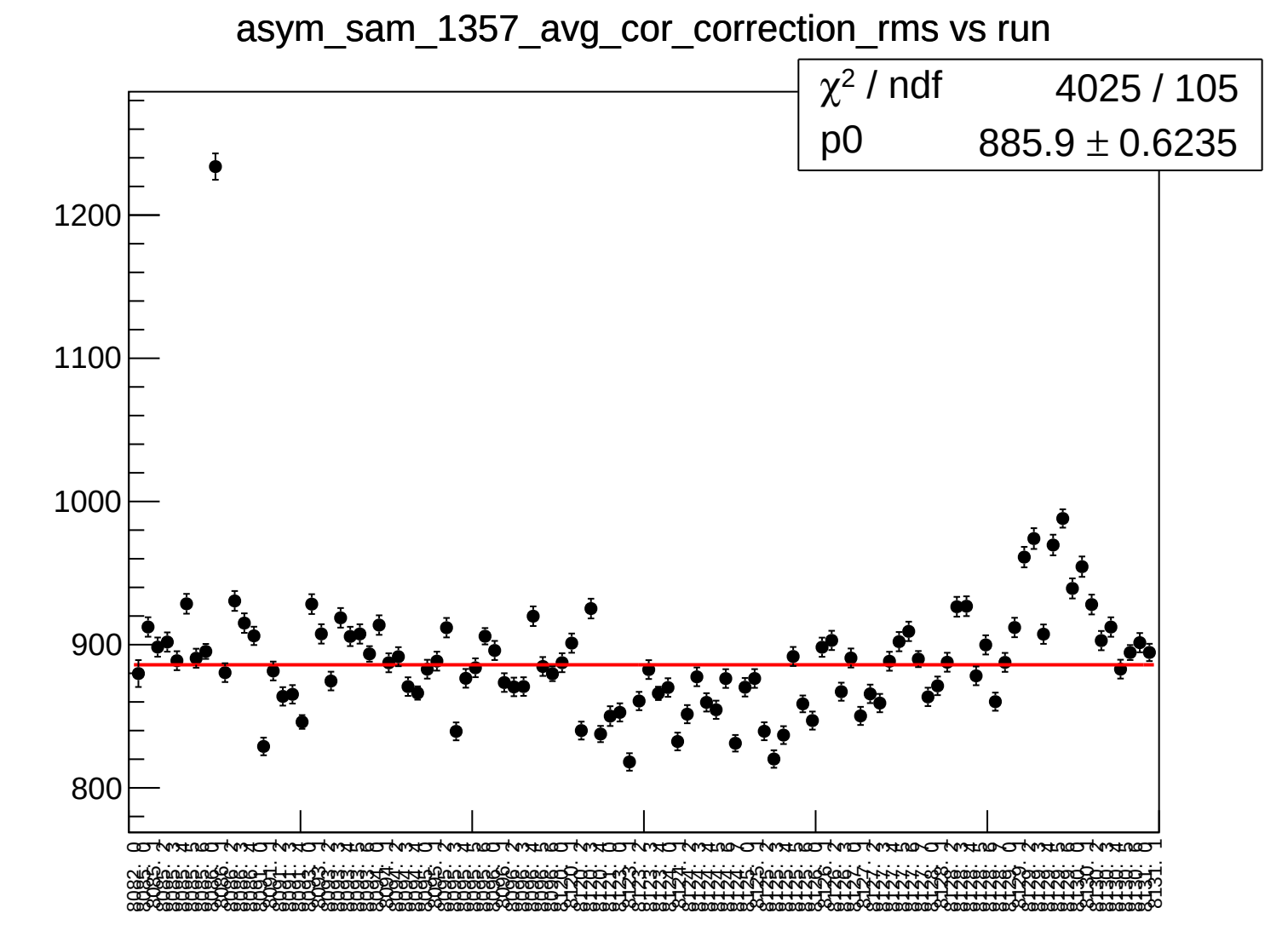
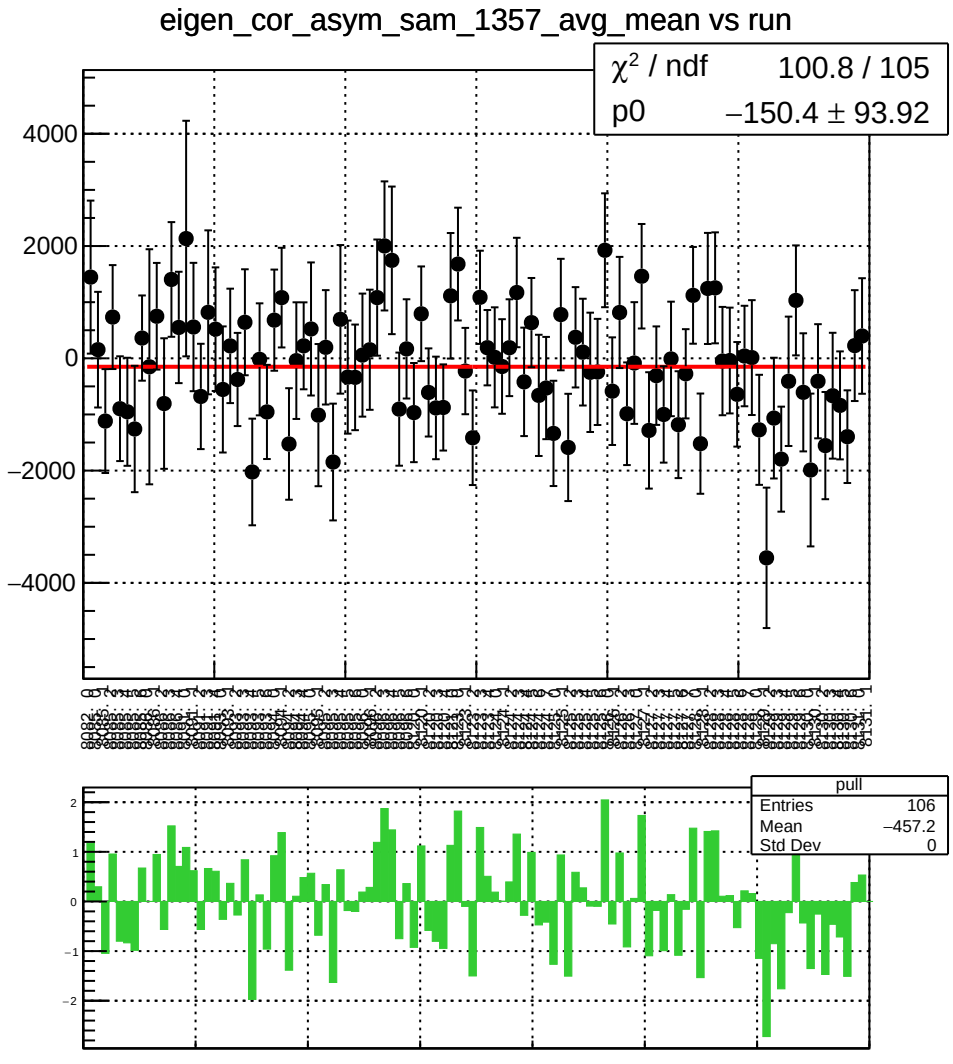
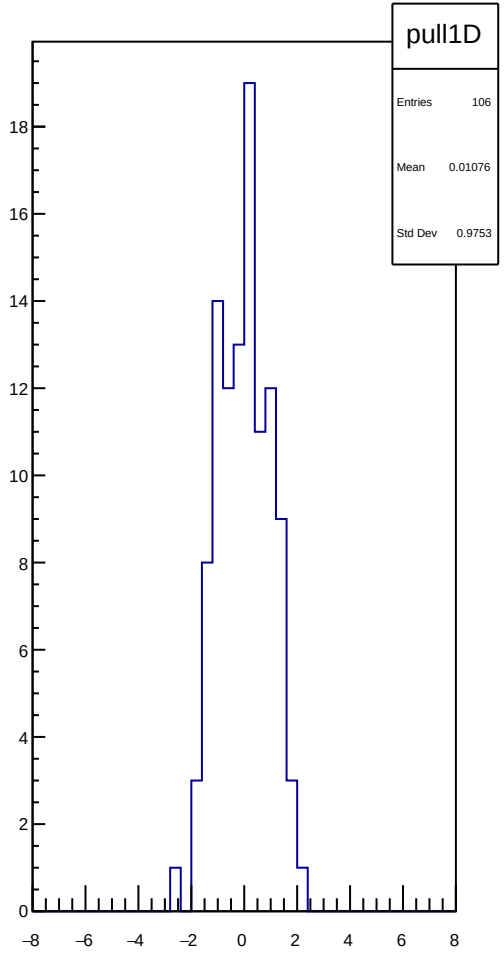
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1357_avg_cor_correction_rms vs run
χ² / ndf 4025 / 105
p0 885.9 ± 0.6235
1200
1100
1000
900
800


eigen_cor_asym_sam_1357_avg_mean vs run
χ² / ndf 100.8 / 105
p0 −150.4 ± 93.92
4000
2000
0
−2000
−4000
pull
Entries 106
Mean −457.2
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 106
Mean 0.01076
Std Dev 0.9753
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16
14
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10
8
6
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2
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−4
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2
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6
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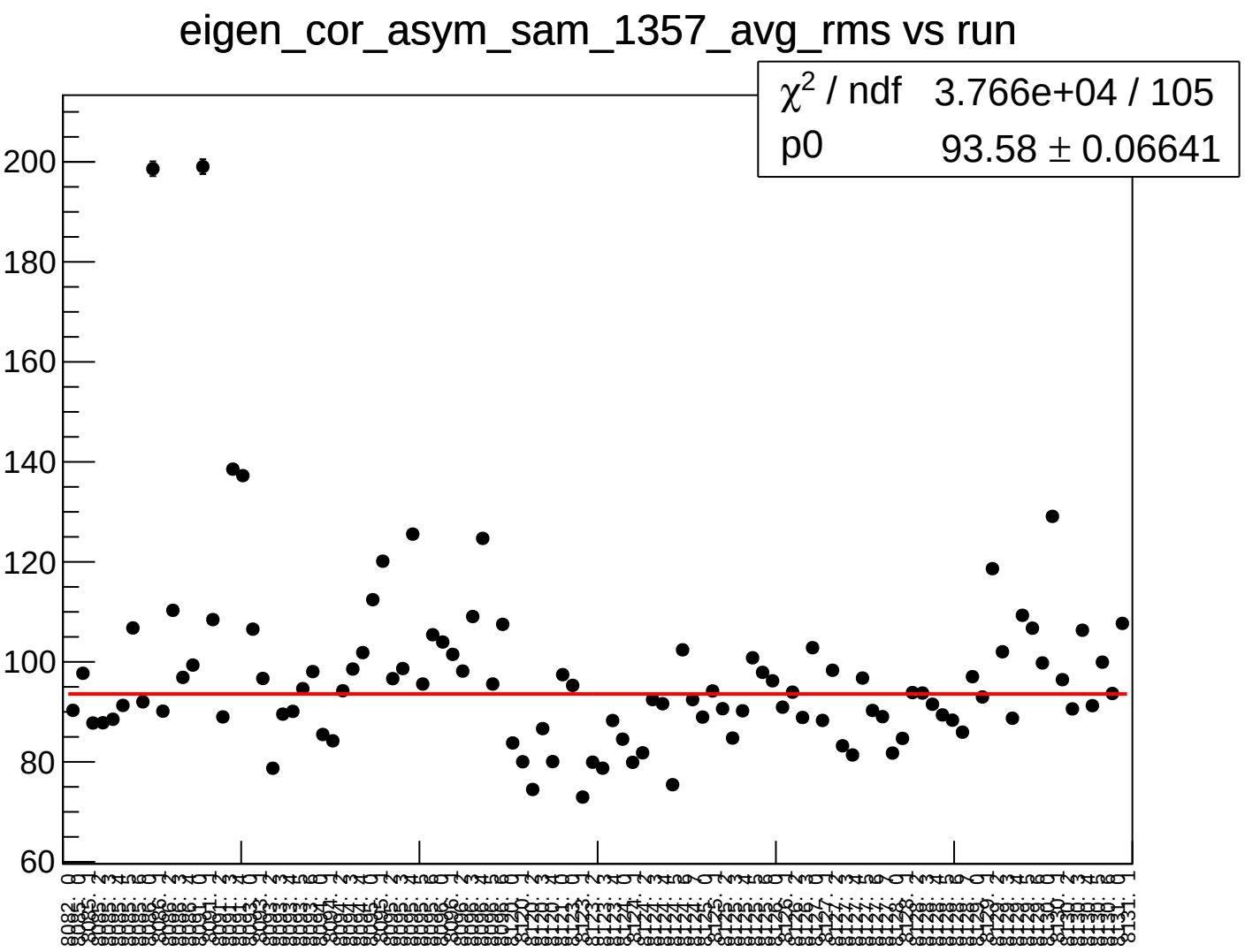
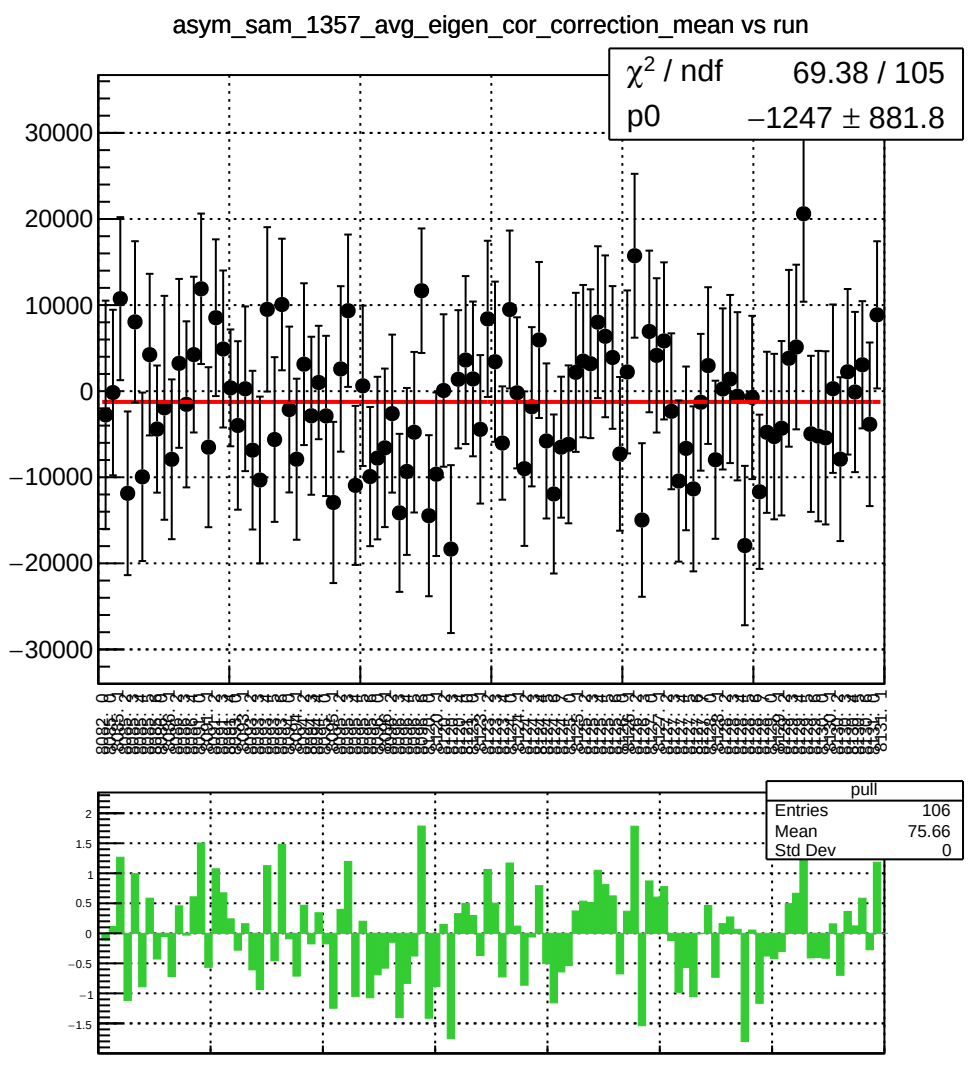
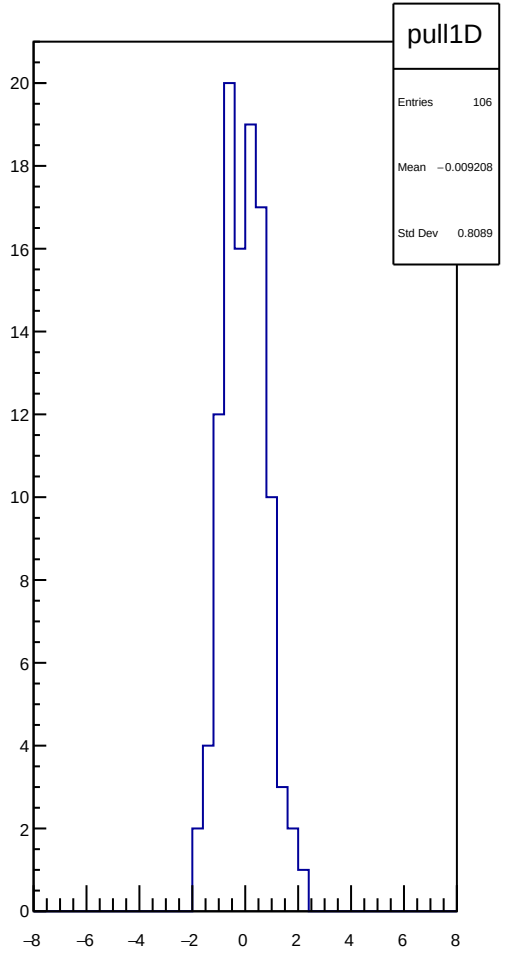

eigen_cor_asym_sam_1357_avg_rms vs run
χ² / ndf 3.766e+04 / 105
p0 93.58 ± 0.06641
200
180
160
140
120
100
80
60


asym_sam_1357_avg_eigen_cor_correction_mean vs run
χ² / ndf 69.38 / 105
p0 −1247 ± 881.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 106
Mean 75.66
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 106
Mean −0.009208
Std Dev 0.8089
20
18
16
14
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10
8
6
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2
0
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−4
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2
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6
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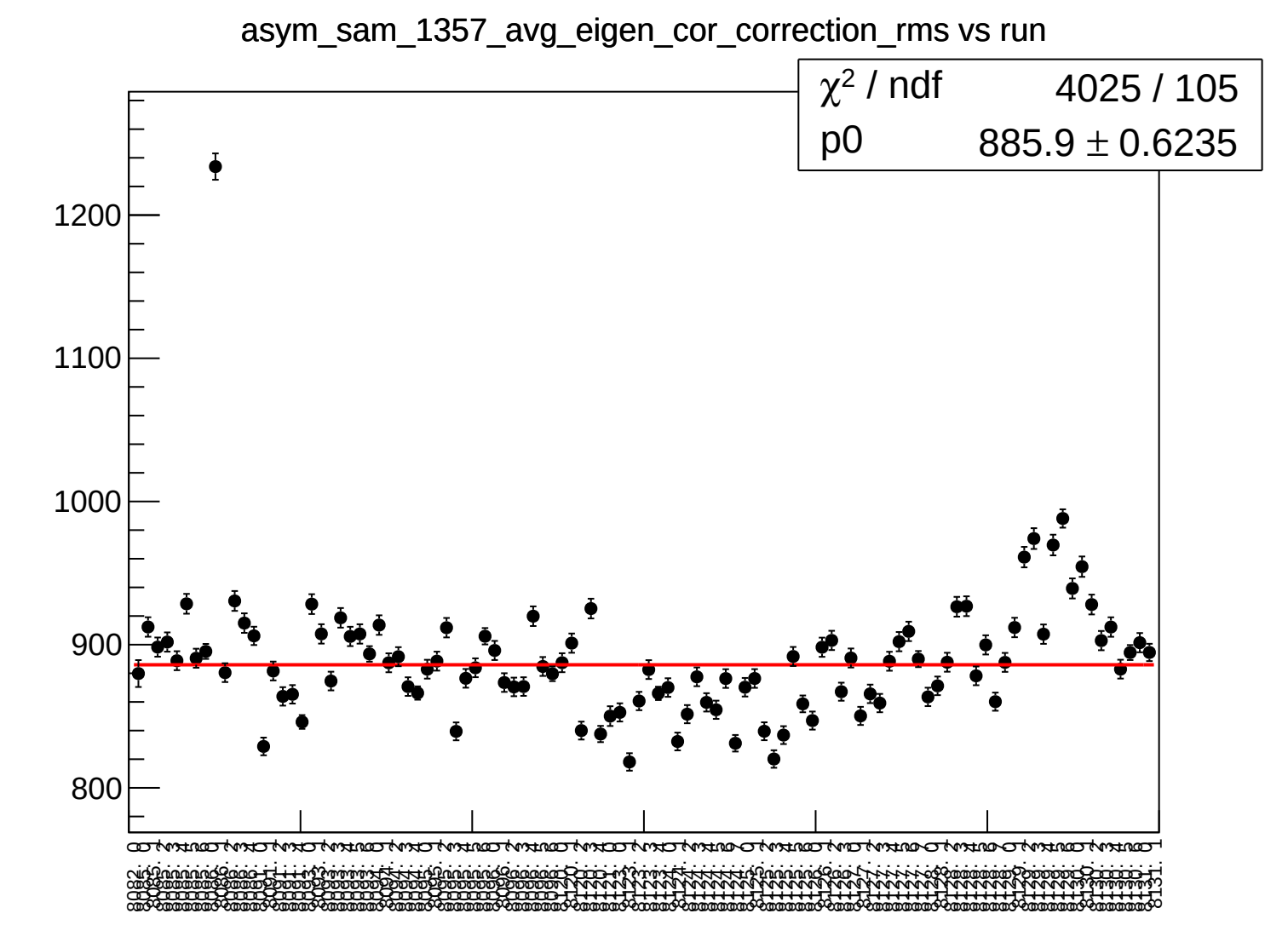
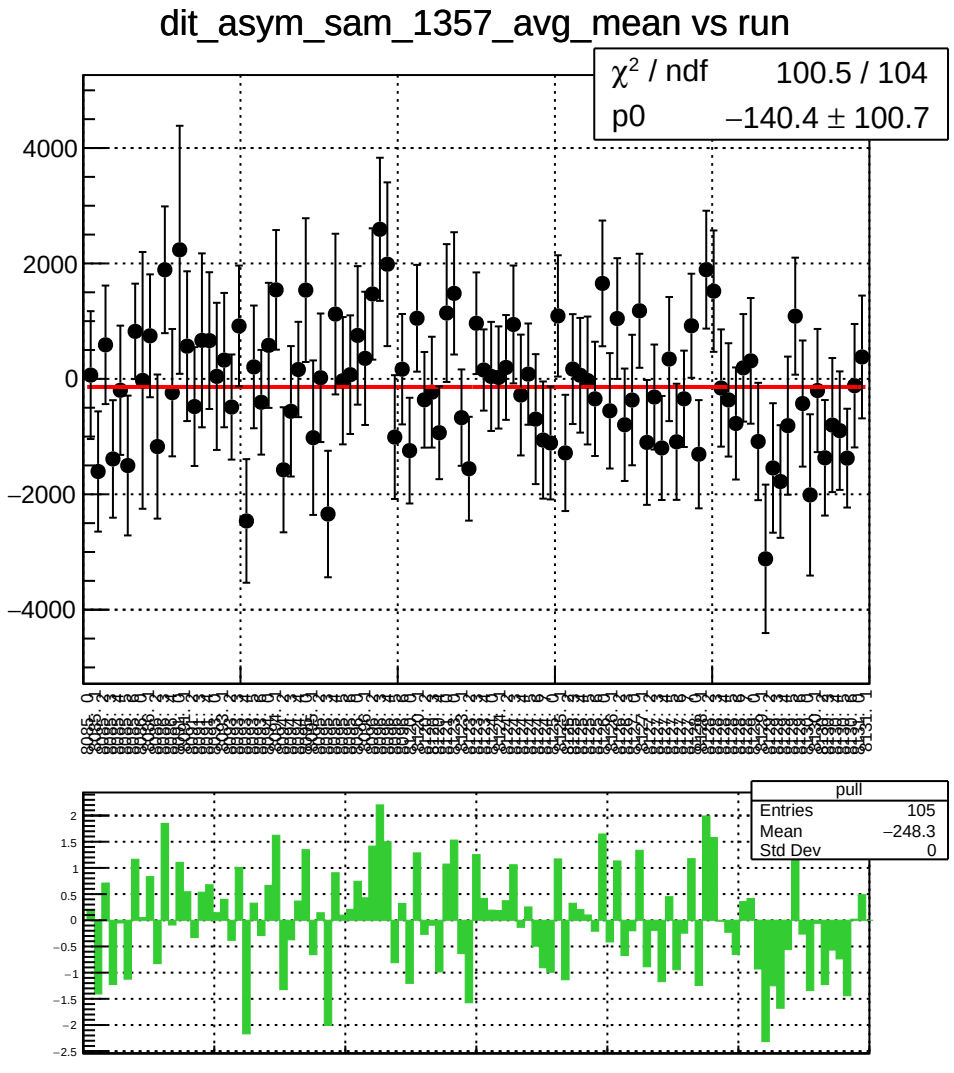
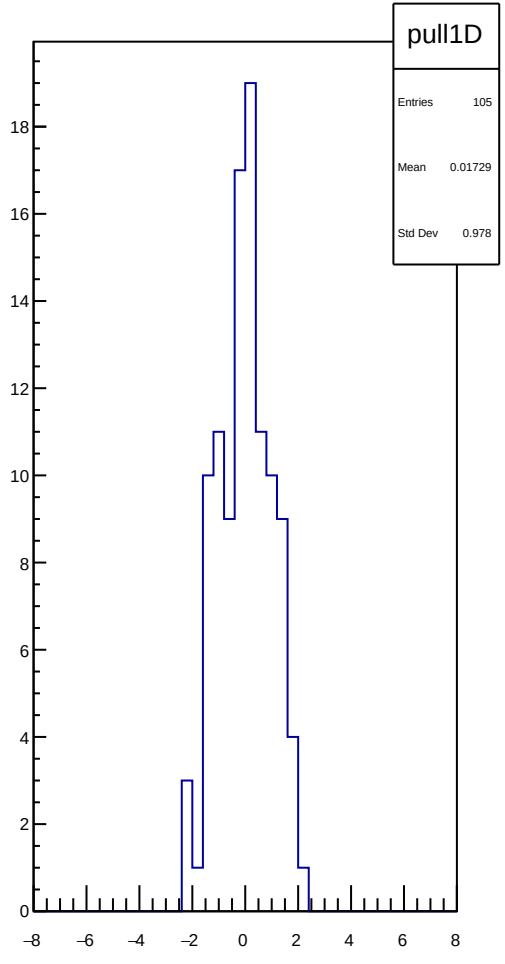

asym_sam_1357_avg_eigen_cor_correction_rms vs run
χ² / ndf 4025 / 105
p0 885.9 ± 0.6235
1200
1100
1000
900
800


dit_asym_sam_1357_avg_mean vs run
χ² / ndf 100.5 / 104
p0 −140.4 ± 100.7
4000
2000
0
−2000
−4000
pull
Entries 105
Mean −248.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 105
Mean 0.01729
Std Dev 0.978
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16
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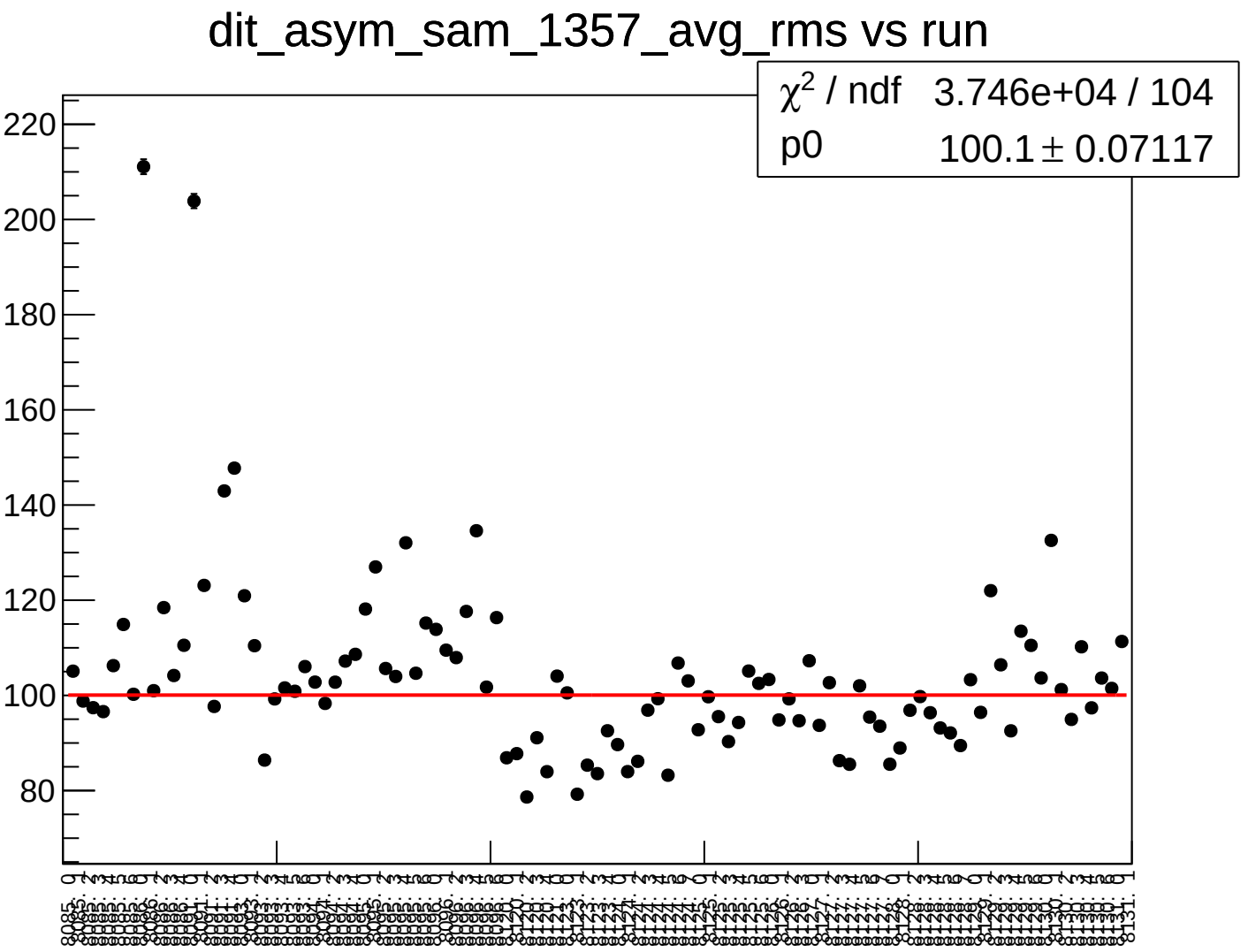
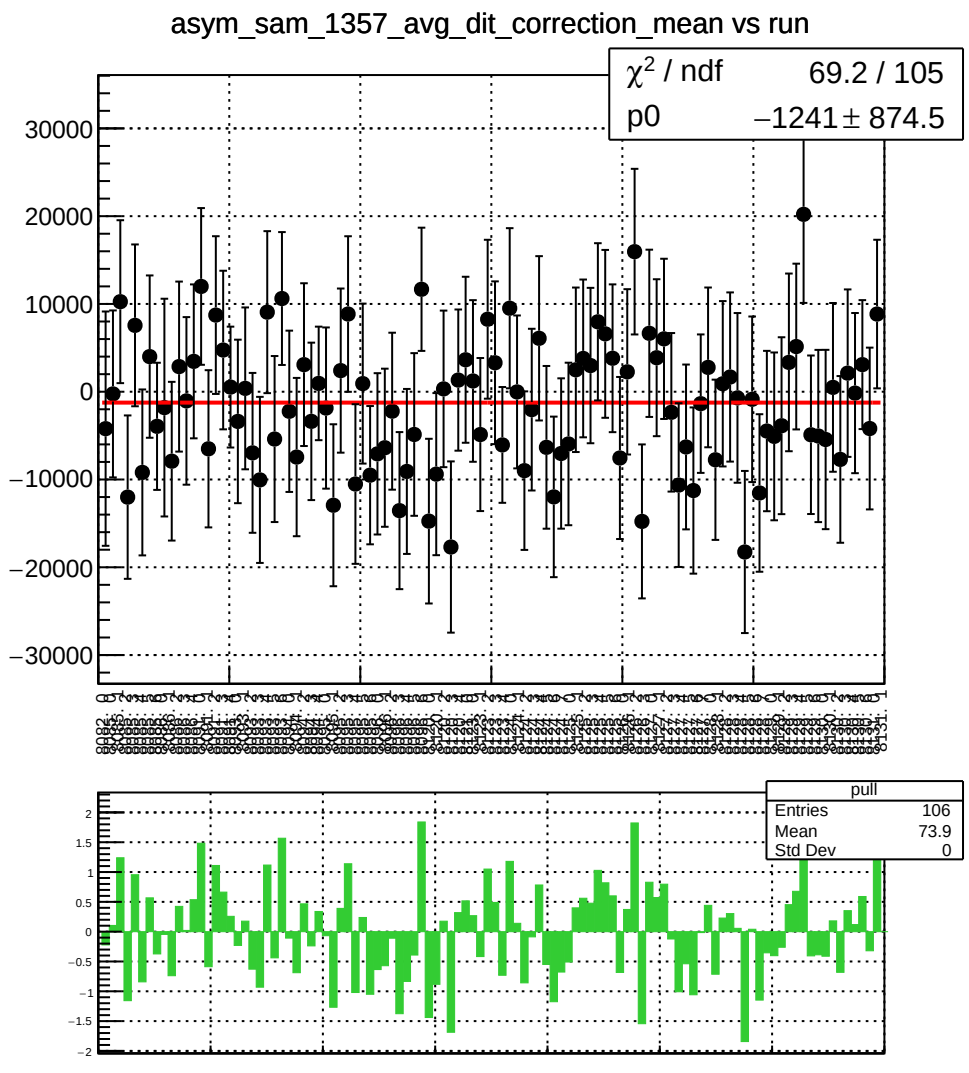
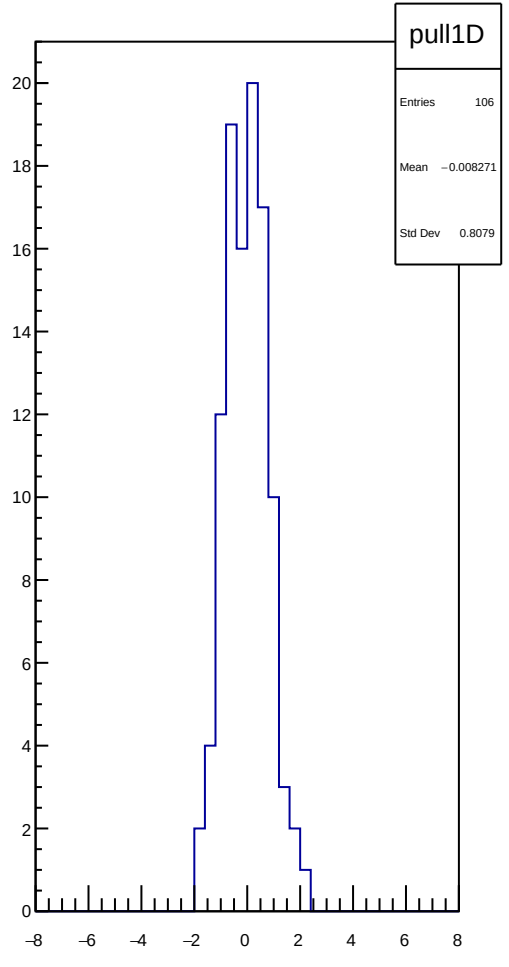
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


dit_asym_sam_1357_avg_rms vs run
$\chi^2$ / ndf 3.746e+04 / 104
p0 100.1 ± 0.07117
220
200
180
160
140
120
100
80


asym_sam_1357_avg_dit_correction_mean vs run
χ² / ndf 69.2 / 105
p0 −1241 ± 874.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 106
Mean 73.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 106
Mean −0.008271
Std Dev 0.8079
20
18
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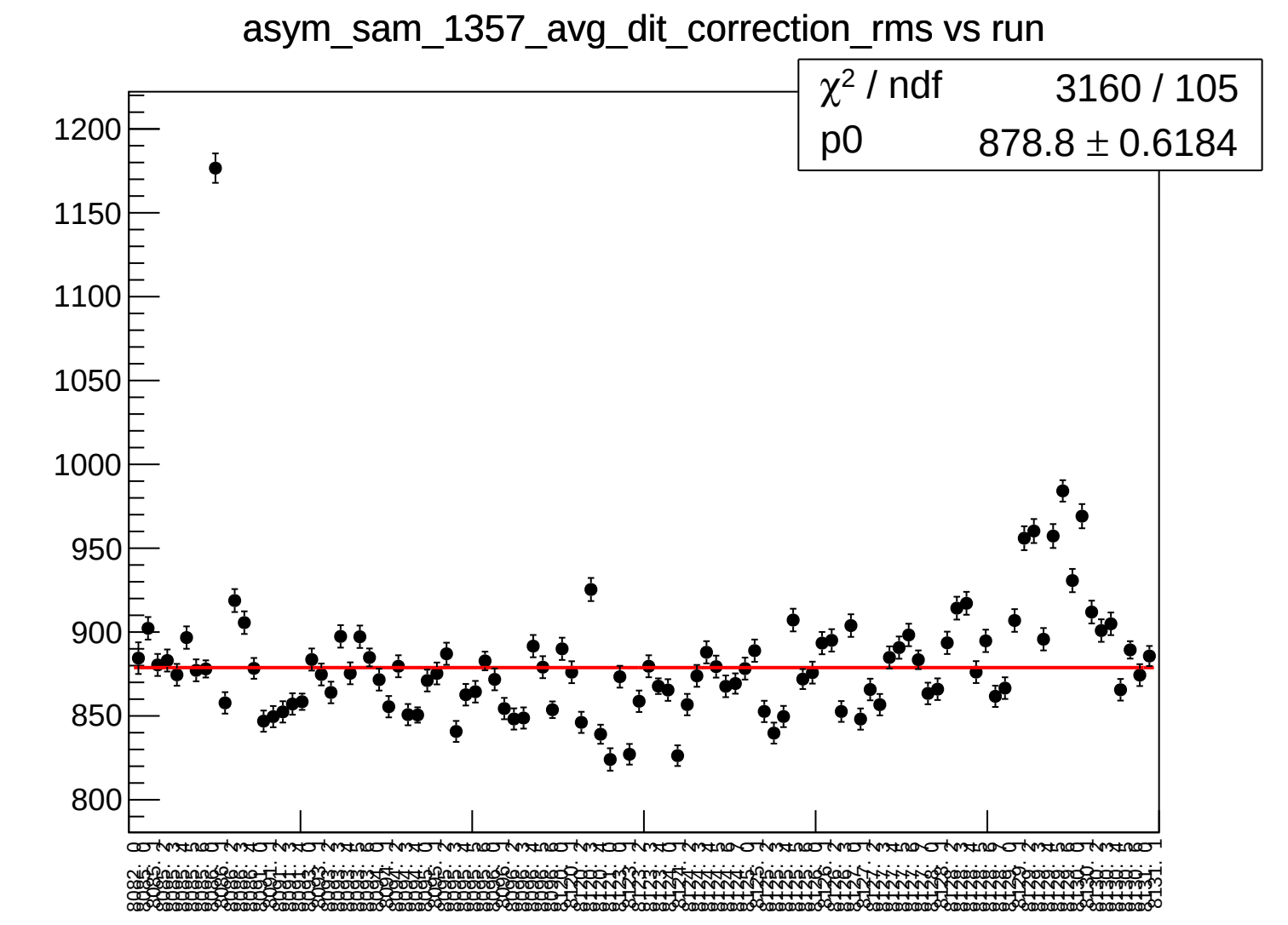
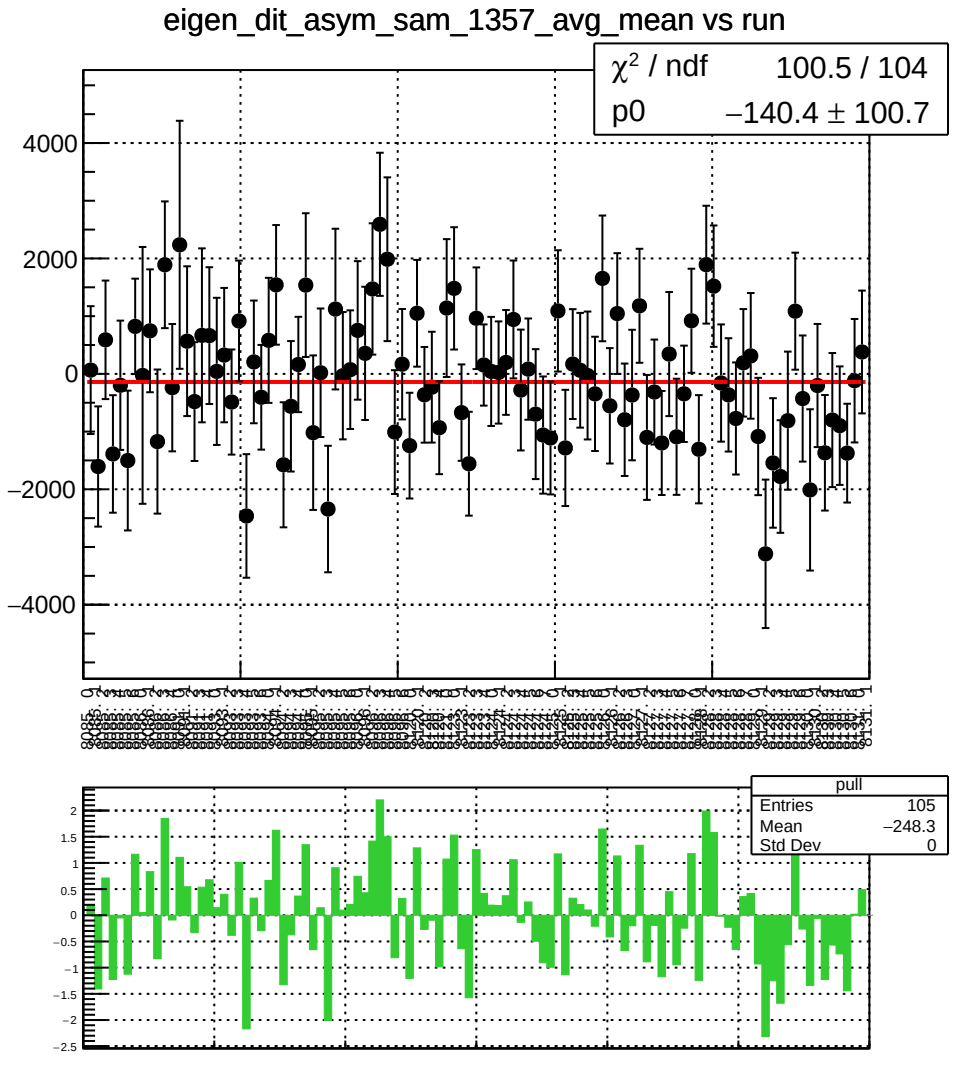
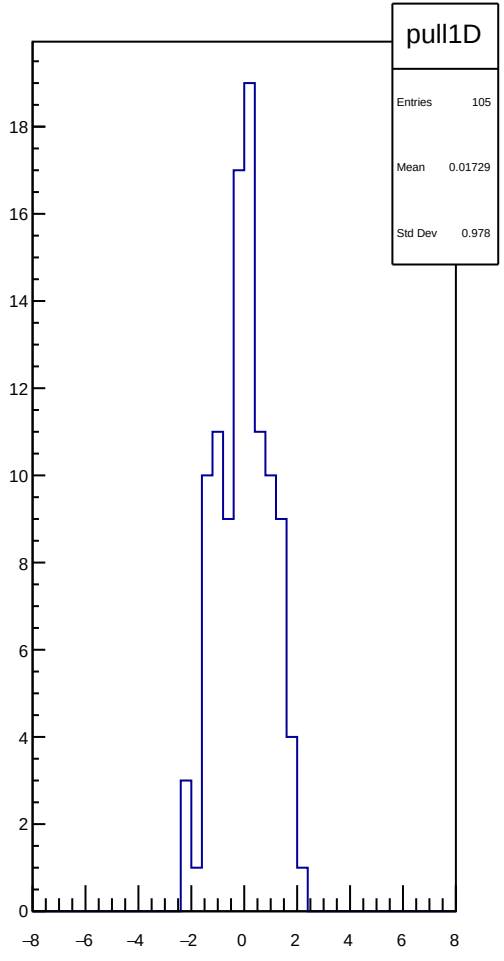
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1357_avg_dit_correction_rms vs run
χ² / ndf 3160 / 105
p0 878.8 ± 0.6184
1200
1150
1100
1050
1000
950
900
850
800


eigen_dit_asym_sam_1357_avg_mean vs run
χ² / ndf 100.5 / 104
p0 −140.4 ± 100.7
4000
2000
0
−2000
−4000
pull
Entries 105
Mean −248.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 105
Mean 0.01729
Std Dev 0.978
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
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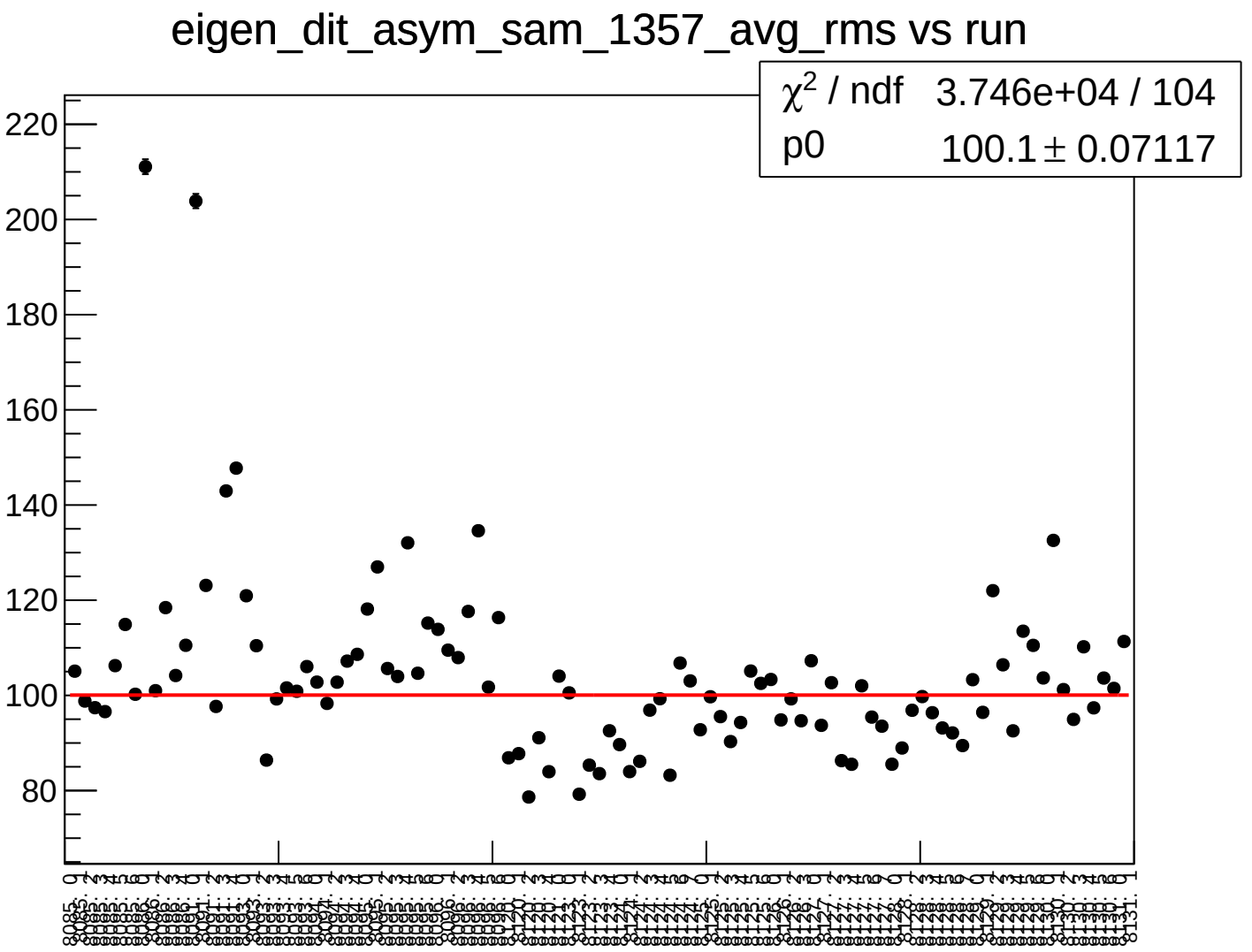
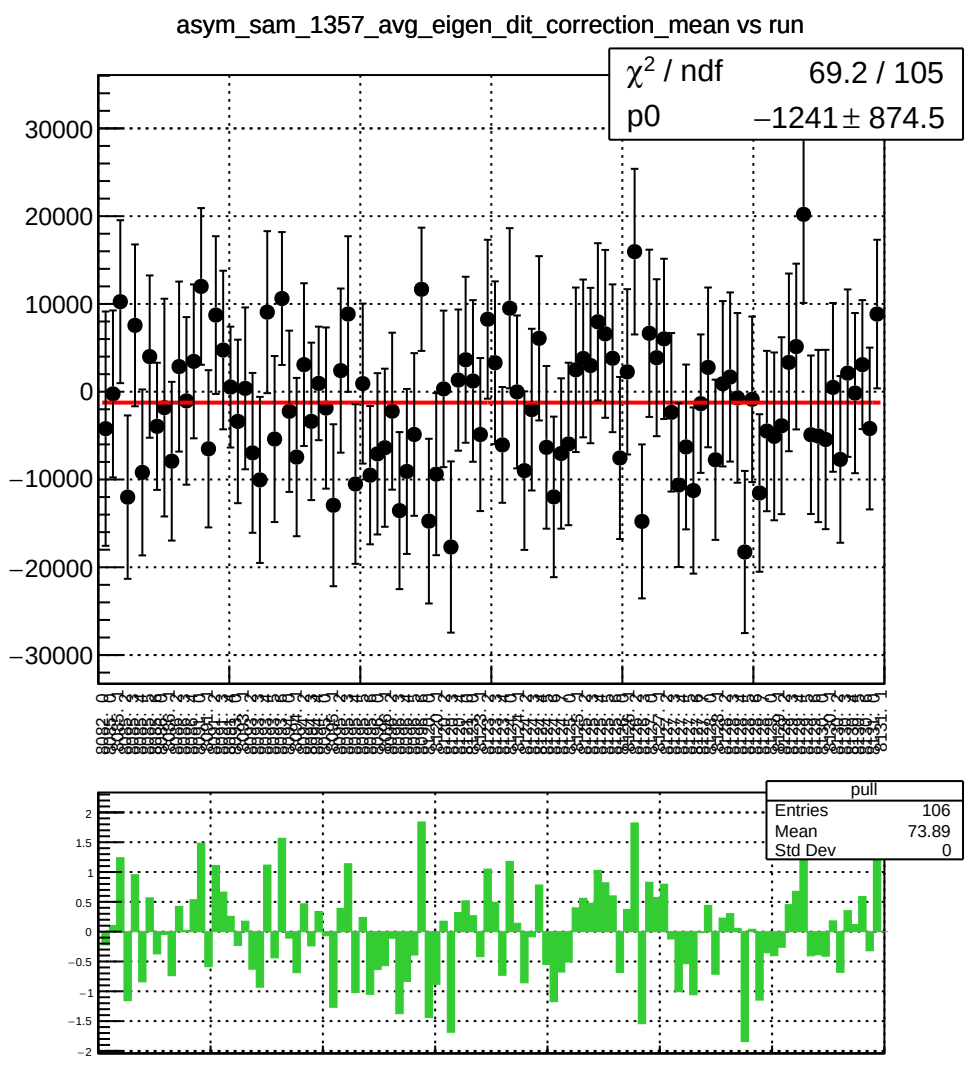
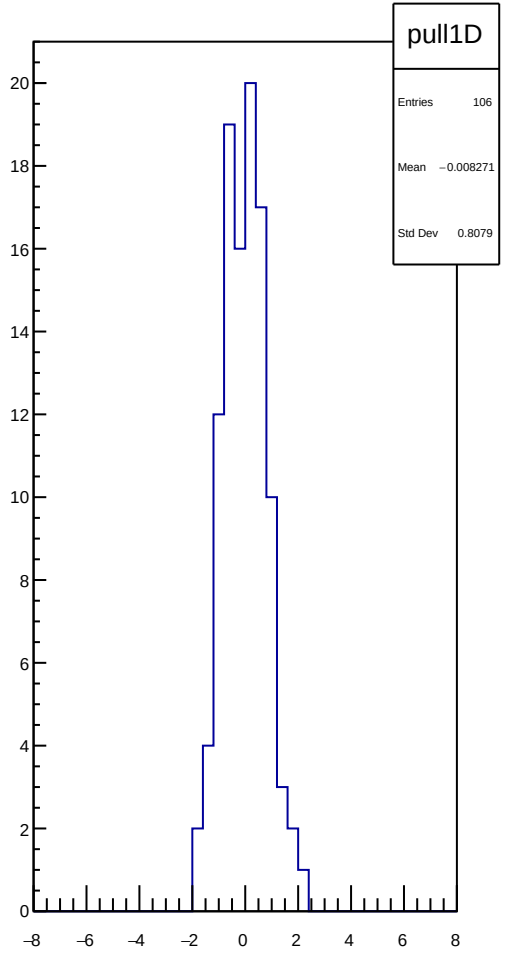
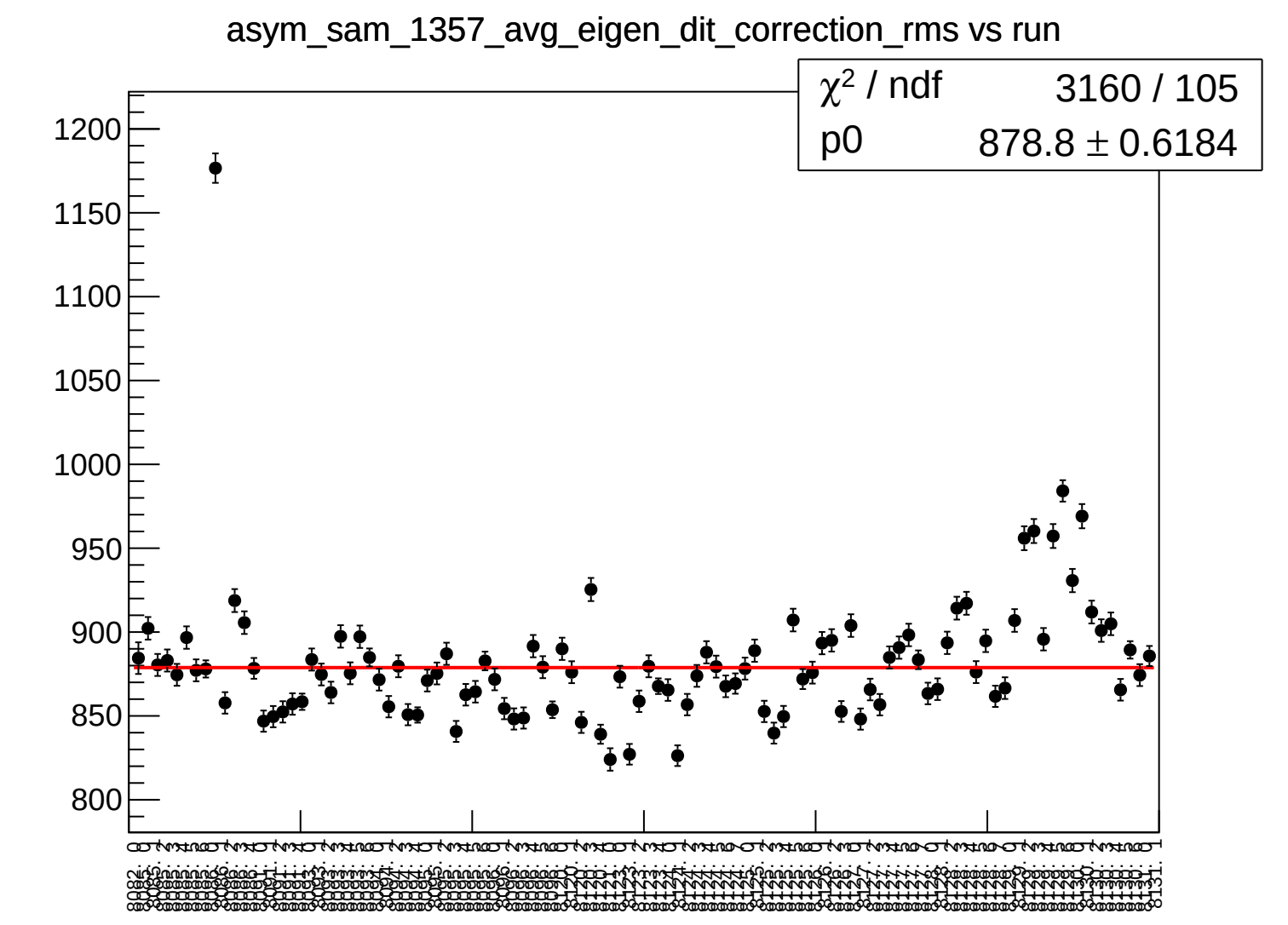
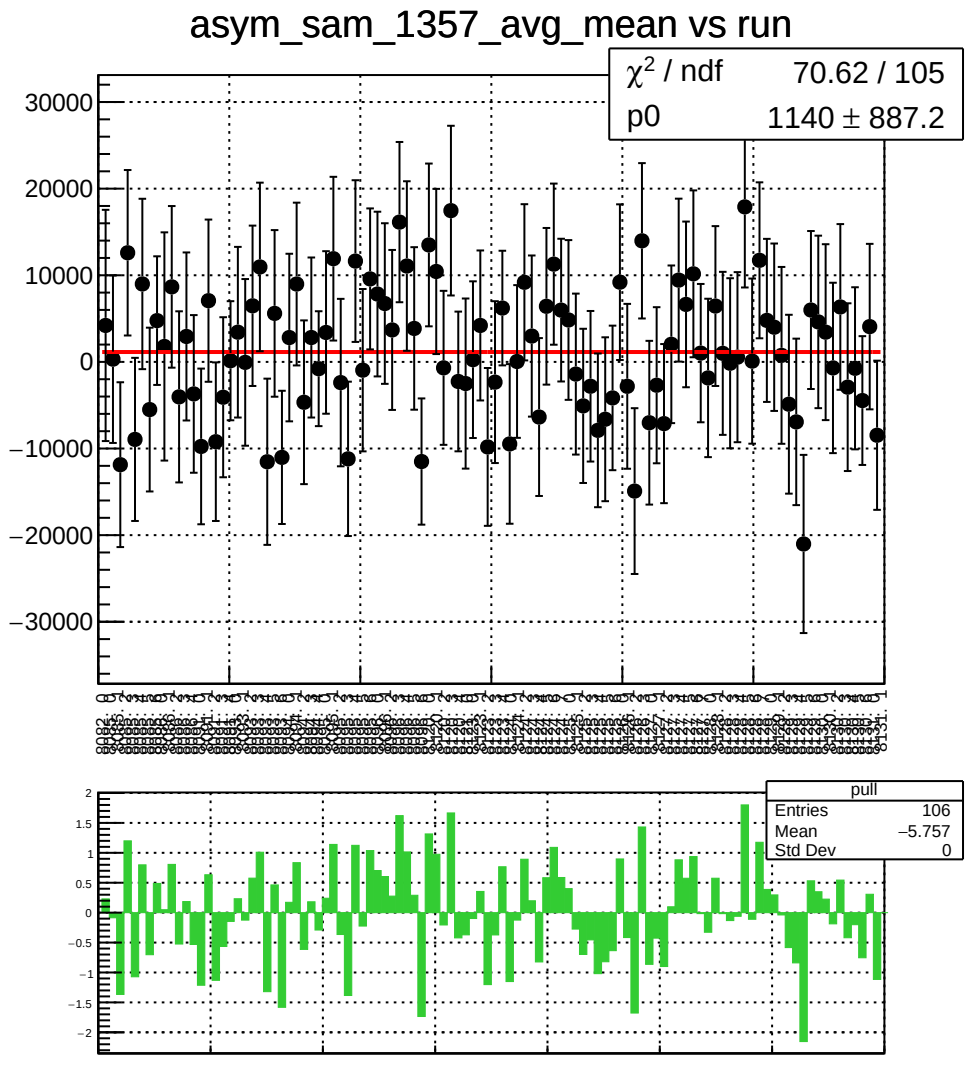
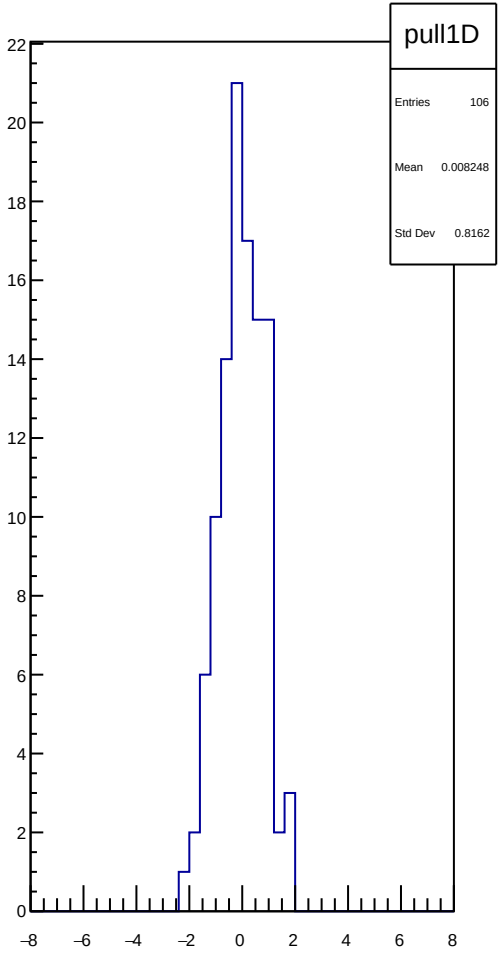

eigen_dit_asym_sam_1357_avg_rms vs run
$\chi^2$ / ndf 3.746e+04 / 104
p0 100.1 ± 0.07117
220
200
180
160
140
120
100
80

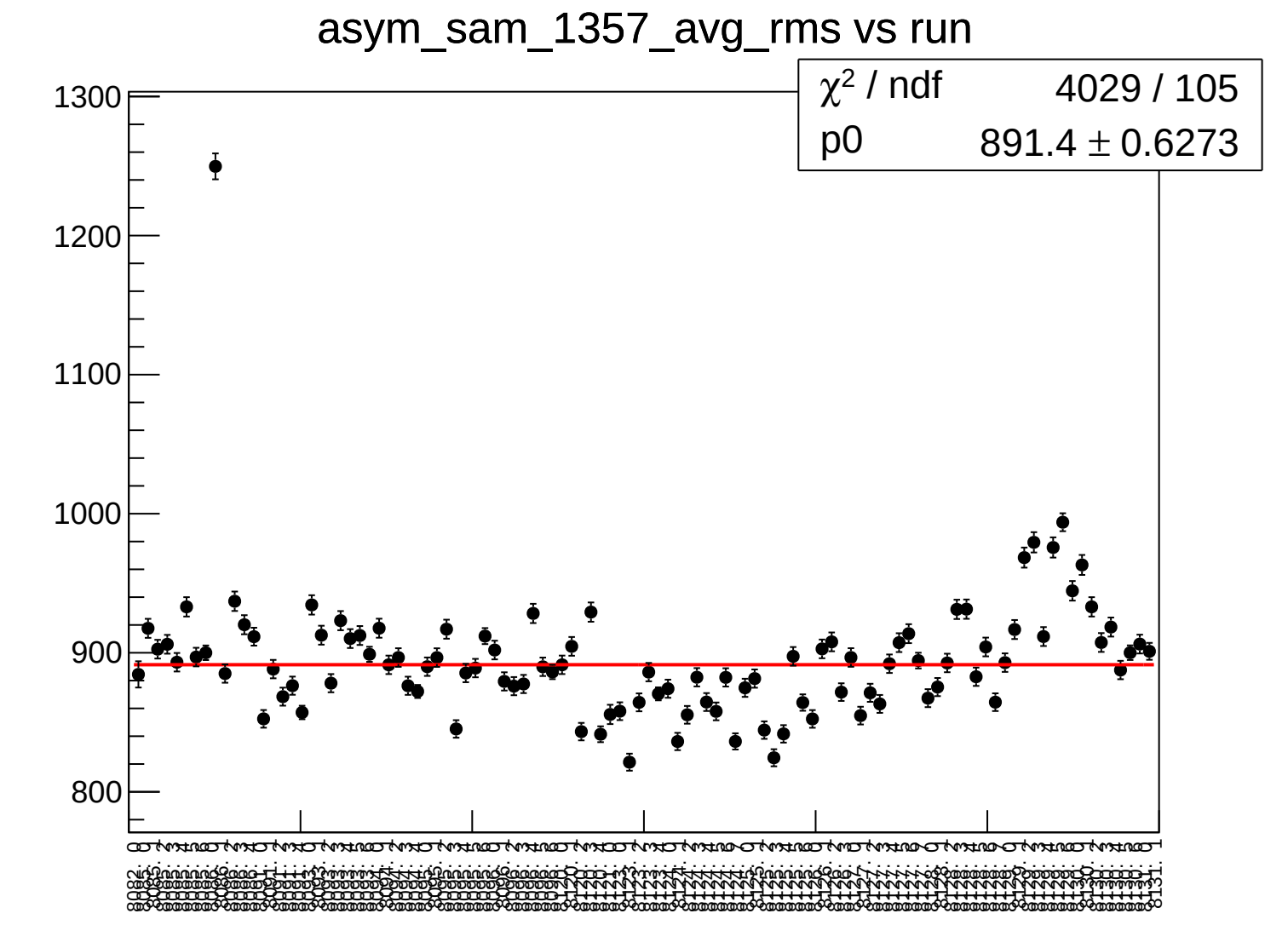

asym_sam_1357_avg_eigen_dit_correction_mean vs run
χ² / ndf 69.2 / 105
p0 −1241 ± 874.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 106
Mean 73.89
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

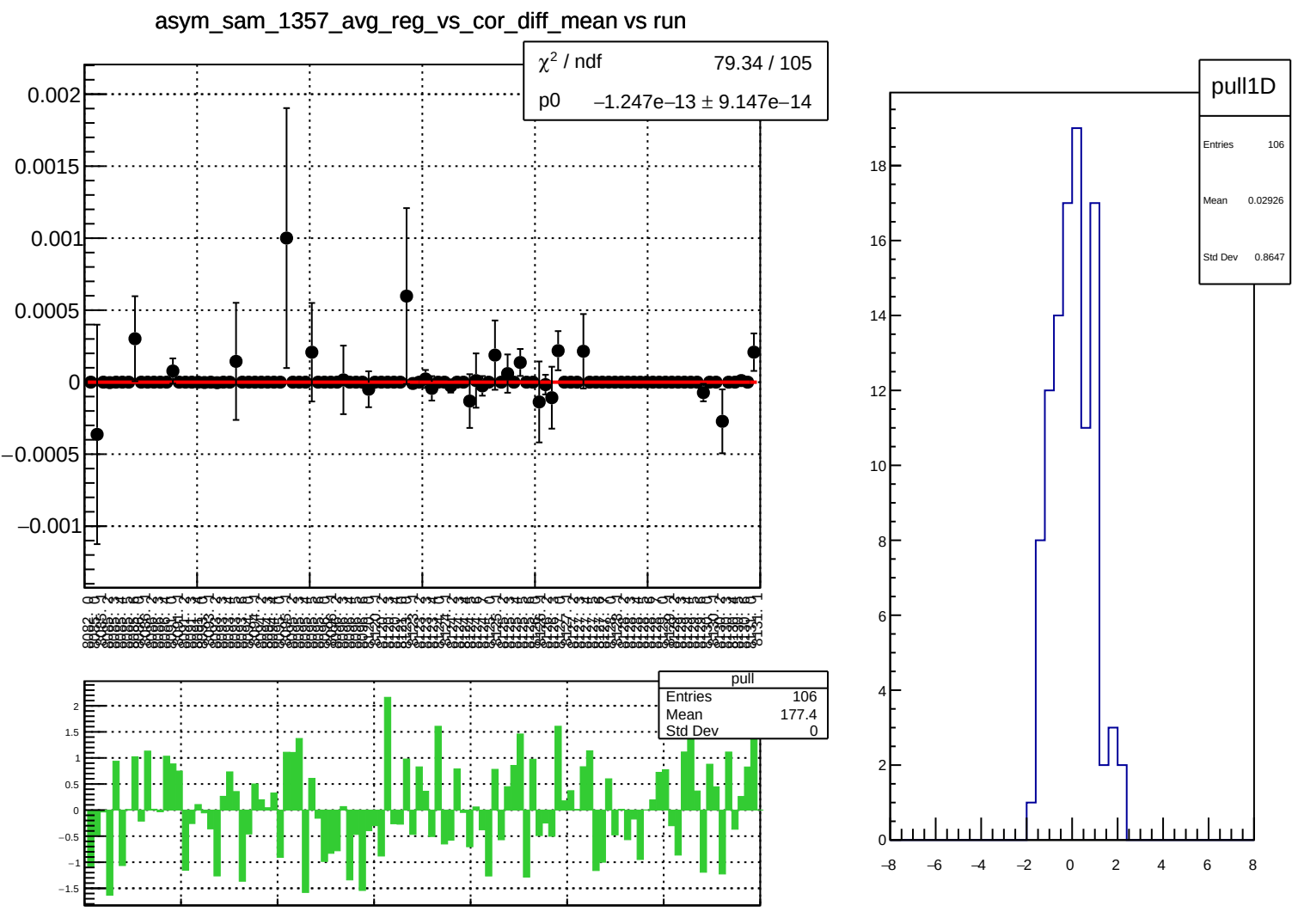

pull1D
Entries 106
Mean −0.008271
Std Dev 0.8079
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

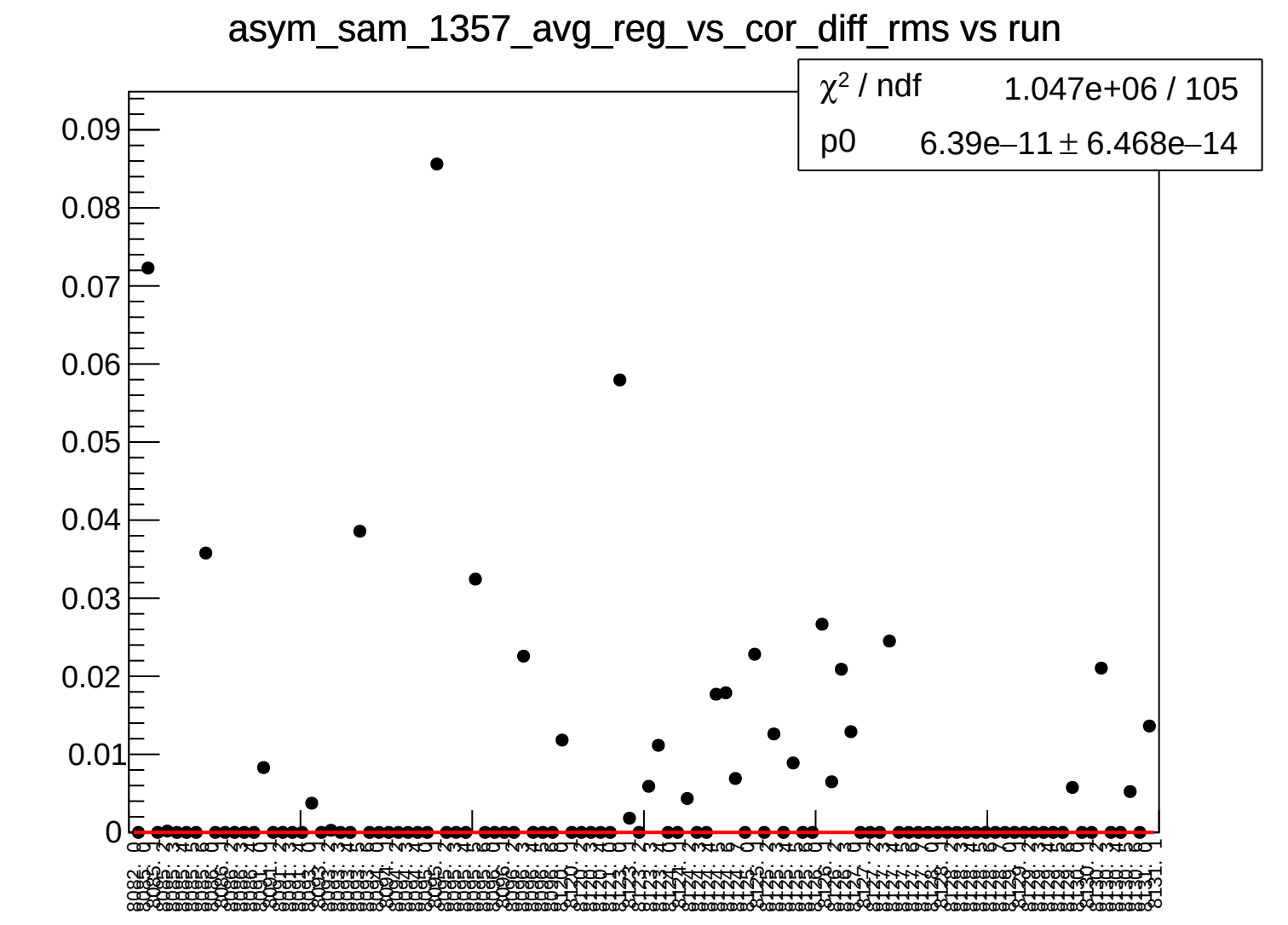

asym_sam_1357_avg_eigen_dit_correction_rms vs run
χ² / ndf 3160 / 105
p0 878.8 ± 0.6184
1200
1150
1100
1050
1000
950
900
850
800

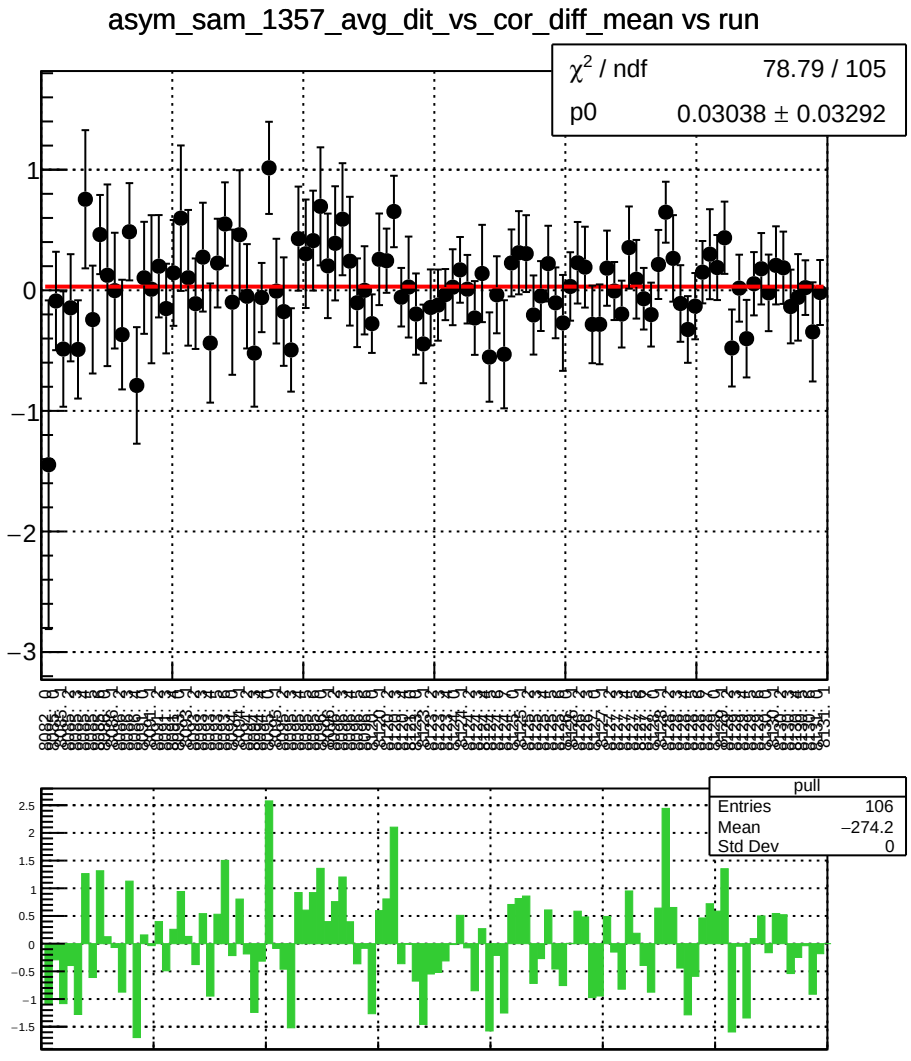

asym_sam_1357_avg_mean vs run
χ² / ndf 70.62 / 105
p0 1140 ± 887.2
pull
Entries 106
Mean −5.757
Std Dev 0

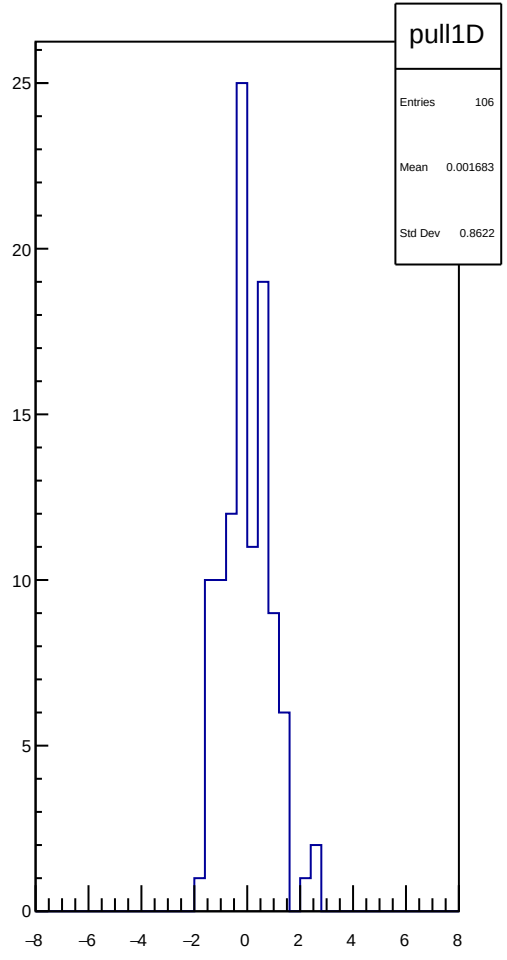

pull1D
Entries 106
Mean 0.008248
Std Dev 0.8162

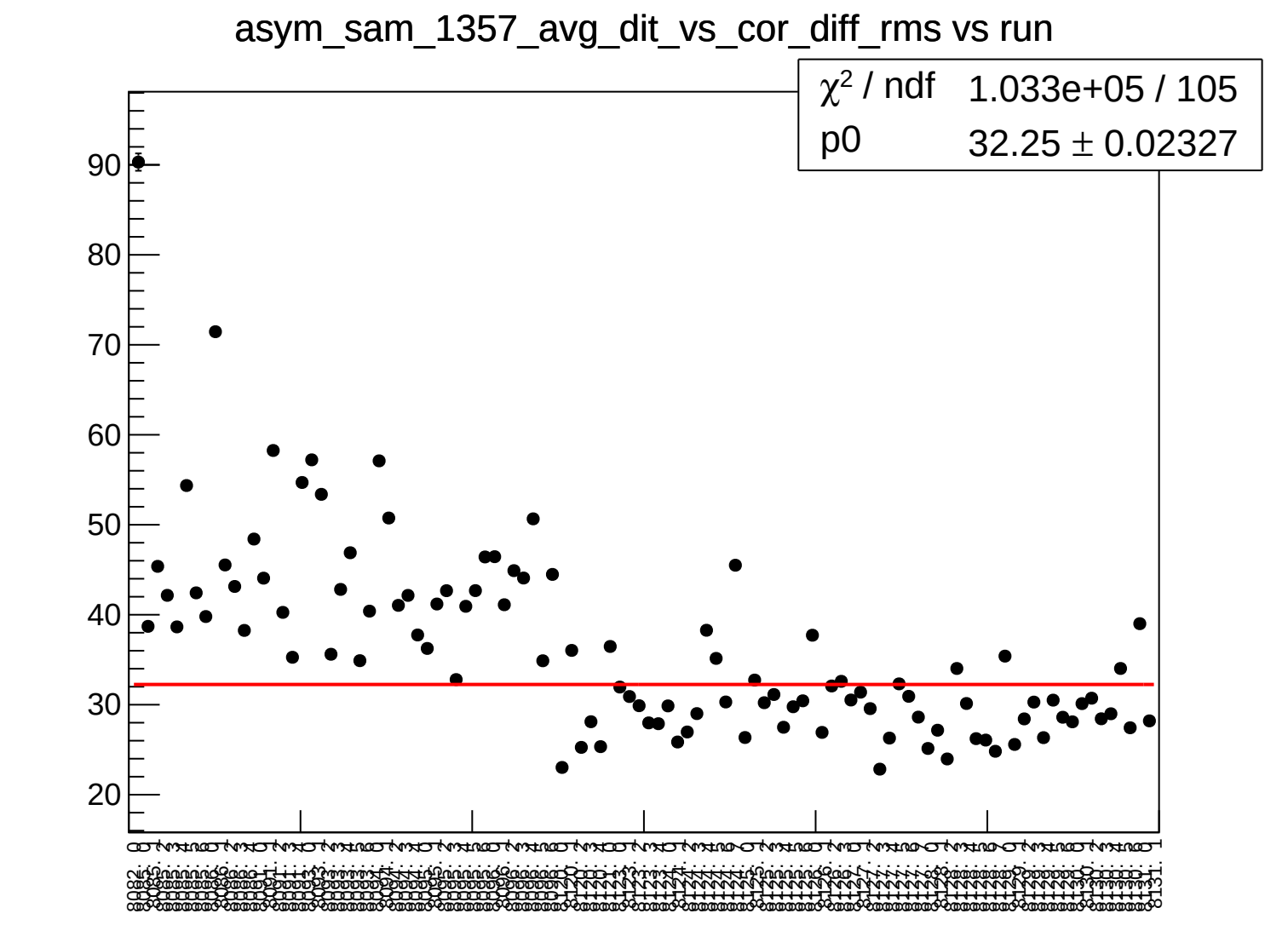

asym_sam_1357_avg_rms vs run
χ² / ndf 4029 / 105
p0 891.4 ± 0.6273
1300
1200
1100
1000
900
800

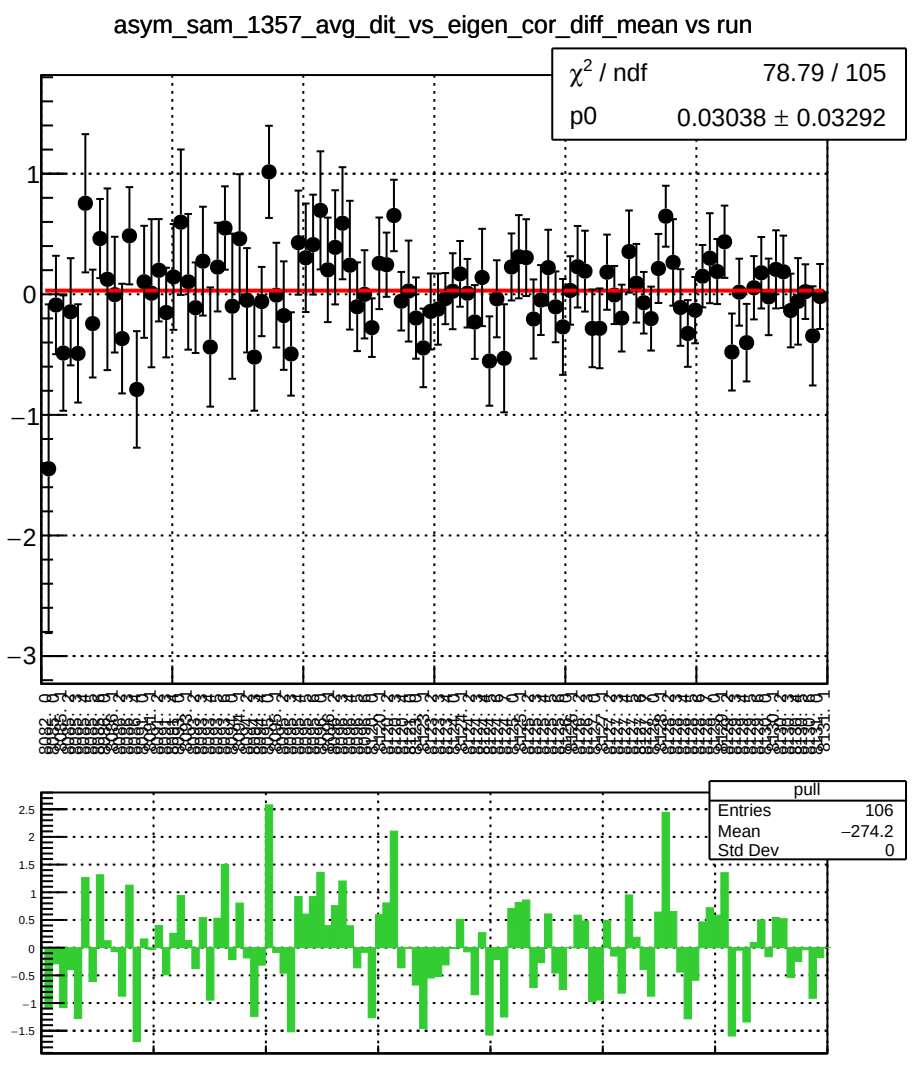

asym_sam_1357_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 79.34 / 105
p0 −1.247e−13 ± 9.147e−14
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 106
Mean 177.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 106
Mean 0.02926
Std Dev 0.8647
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

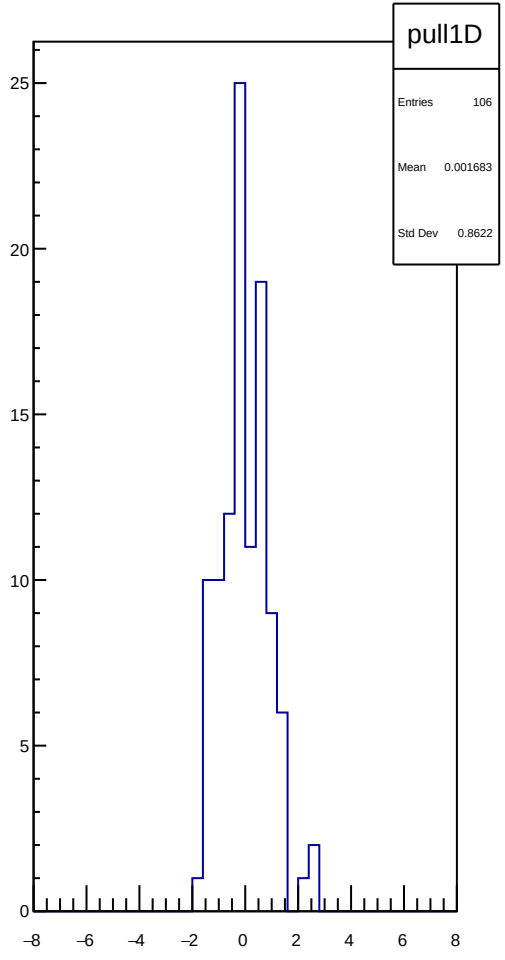

asym_sam_1357_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.047e+06 / 105
p0 6.39e−11 ± 6.468e−14
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

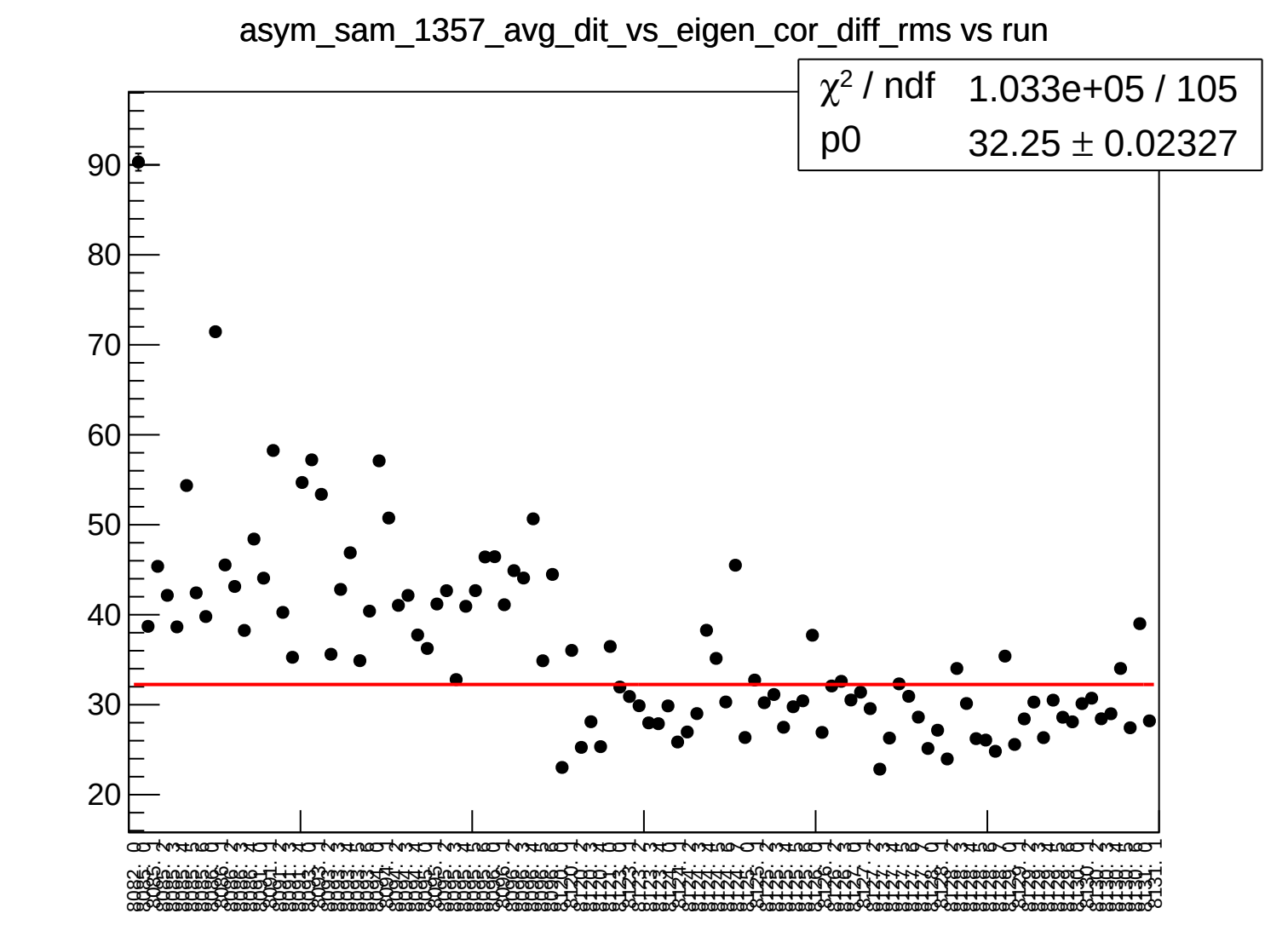

asym_sam_1357_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 78.79 / 105
p0 0.03038 ± 0.03292
pull
Entries 106
Mean −274.2
Std Dev 0

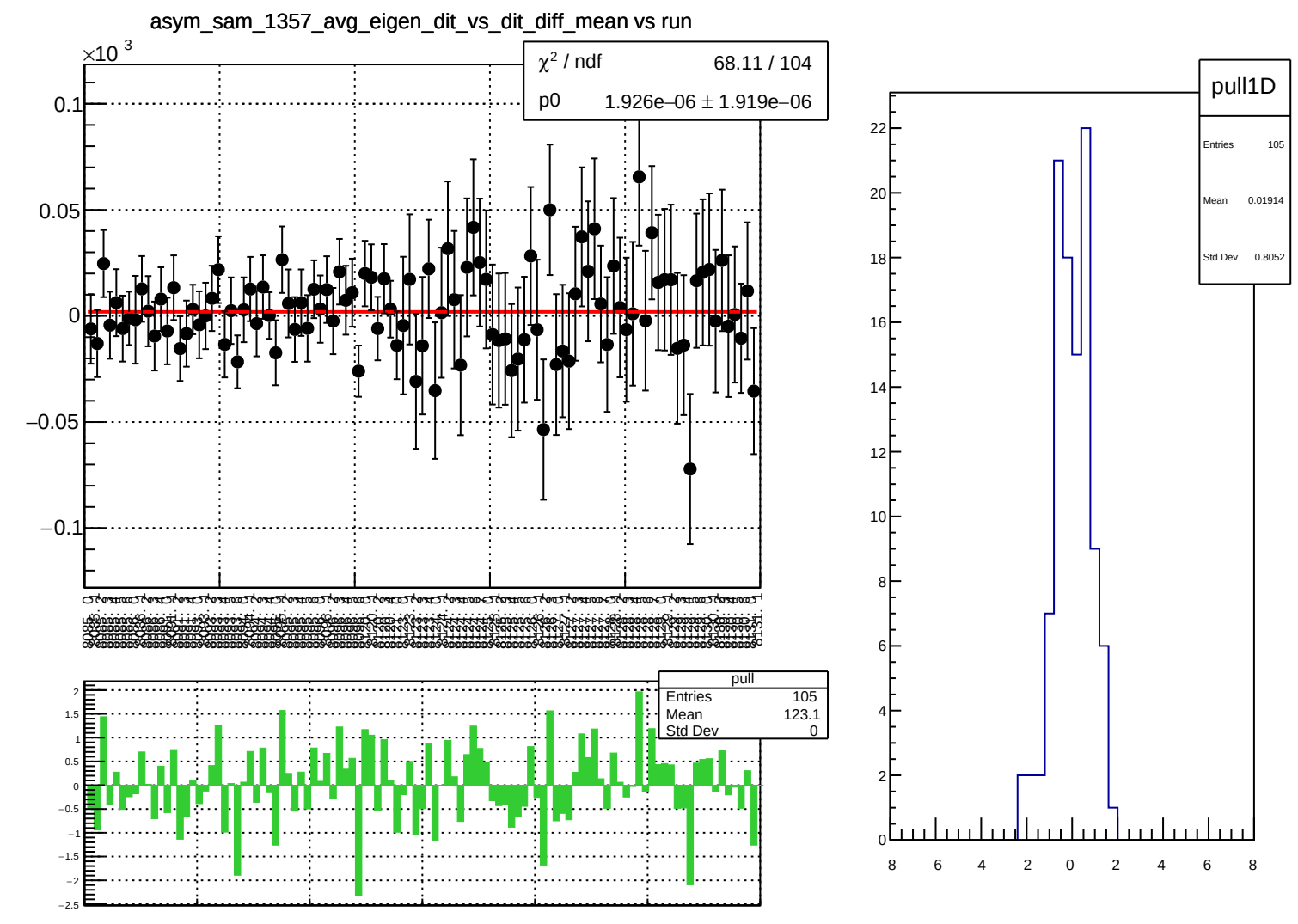

pull1D
Entries 106
Mean 0.001683
Std Dev 0.8622

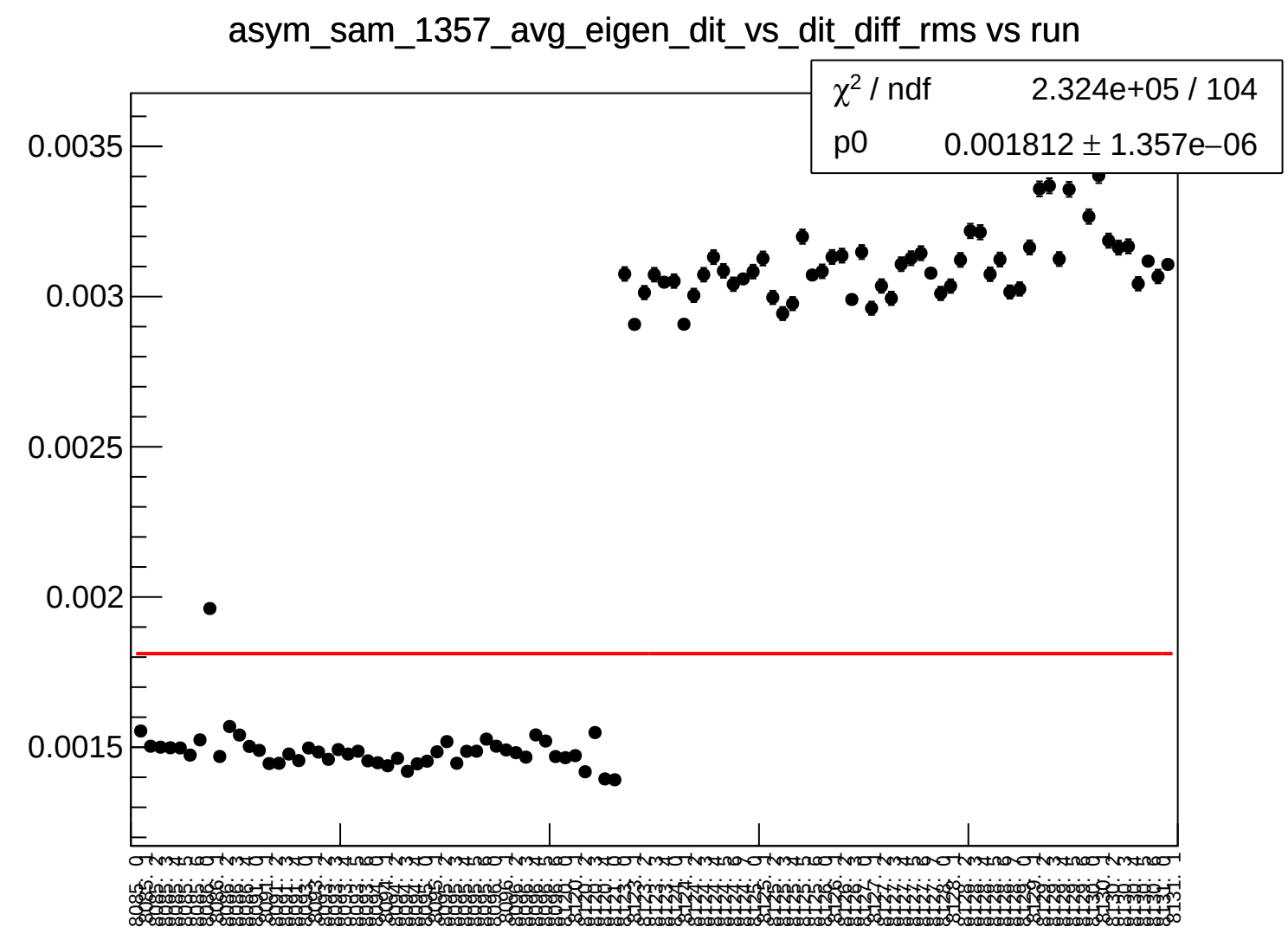

asym_sam_1357_avg_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 1.033e+05 / 105
p0 32.25 ± 0.02327
90
80
70
60
50
40
30
20

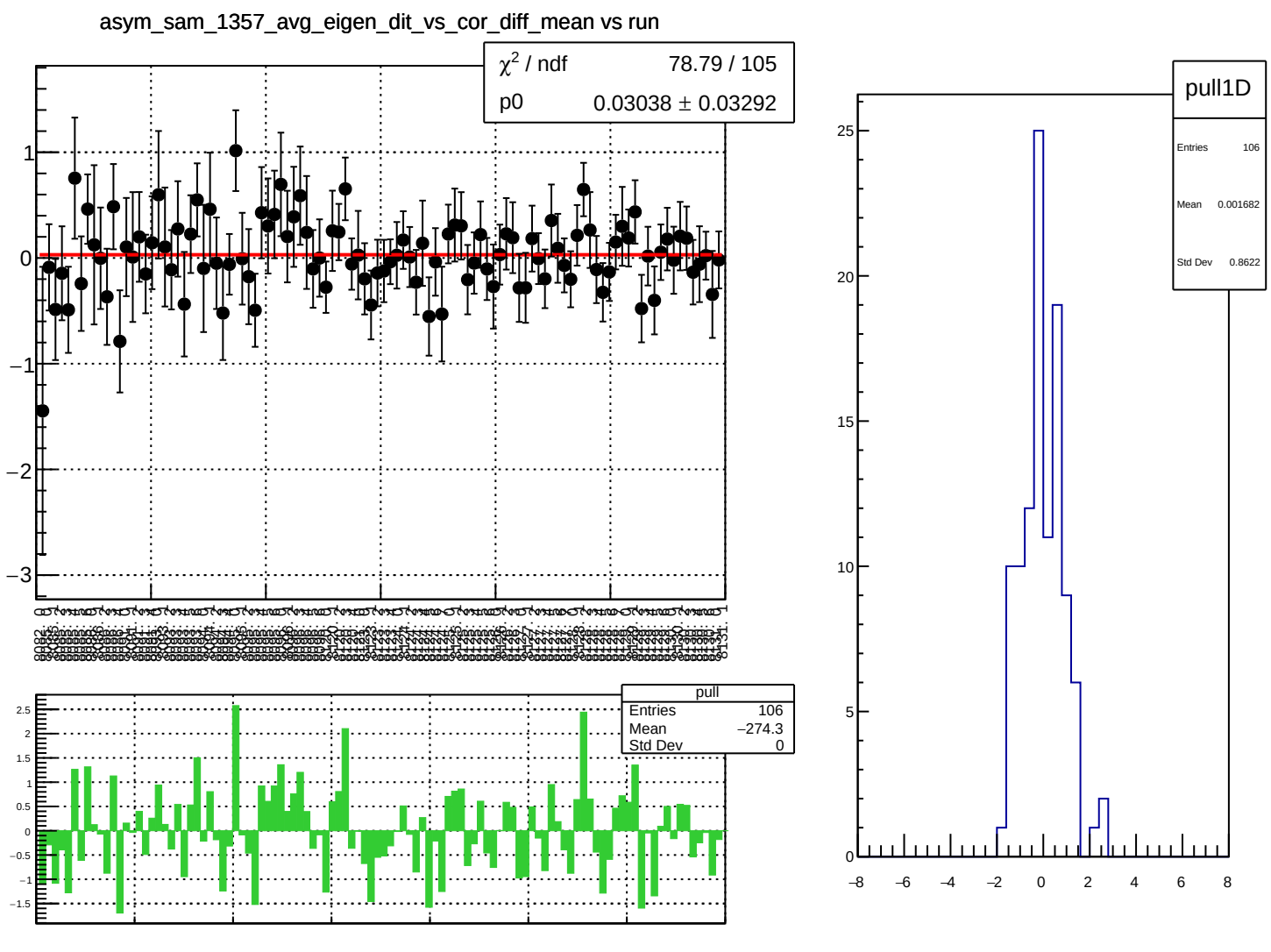

asym_sam_1357_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.79 / 105
p0 0.03038 ± 0.03292
pull
Entries 106
Mean −274.2
Std Dev 0

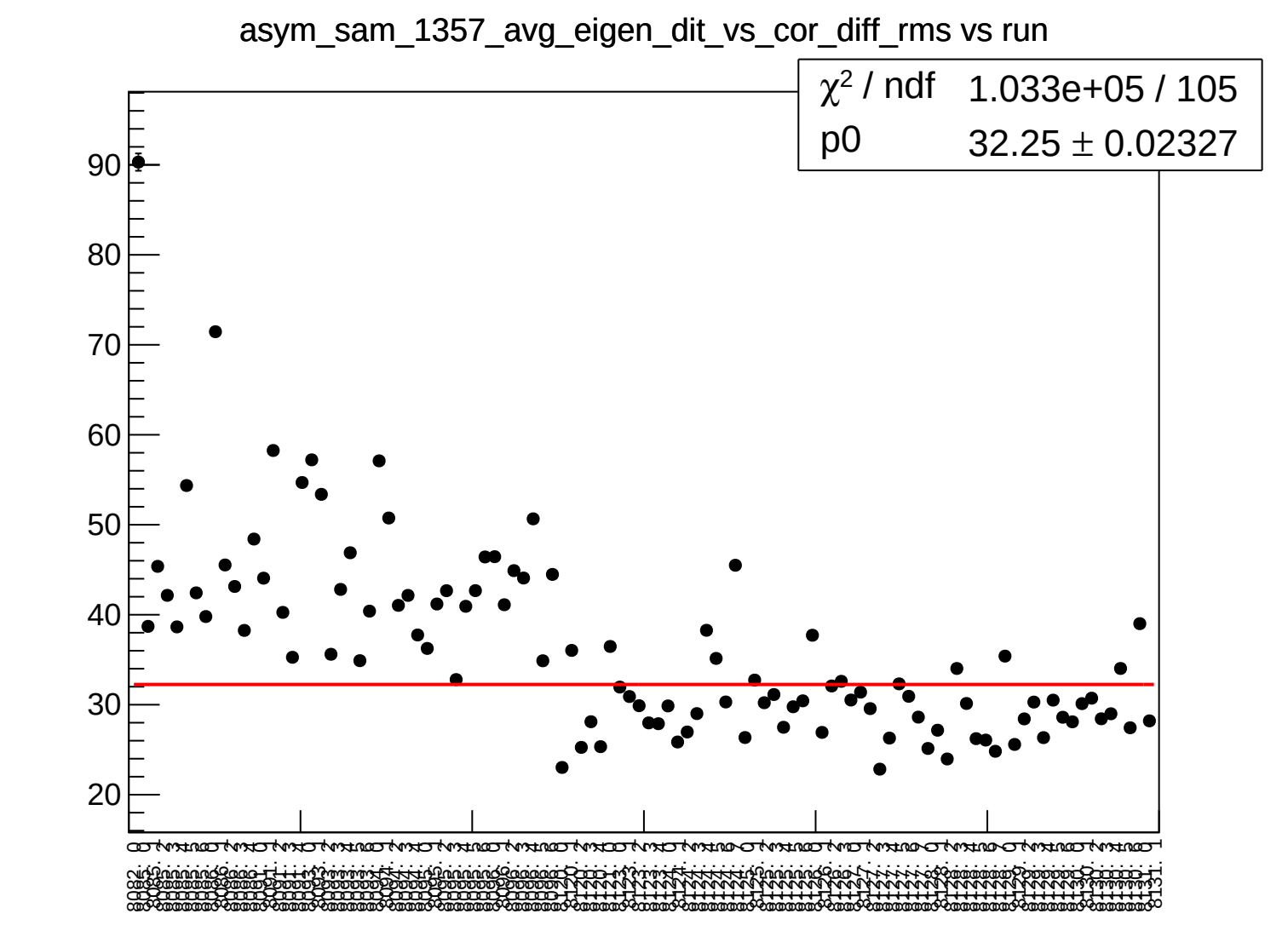

pull1D
Entries 106
Mean 0.001683
Std Dev 0.8622

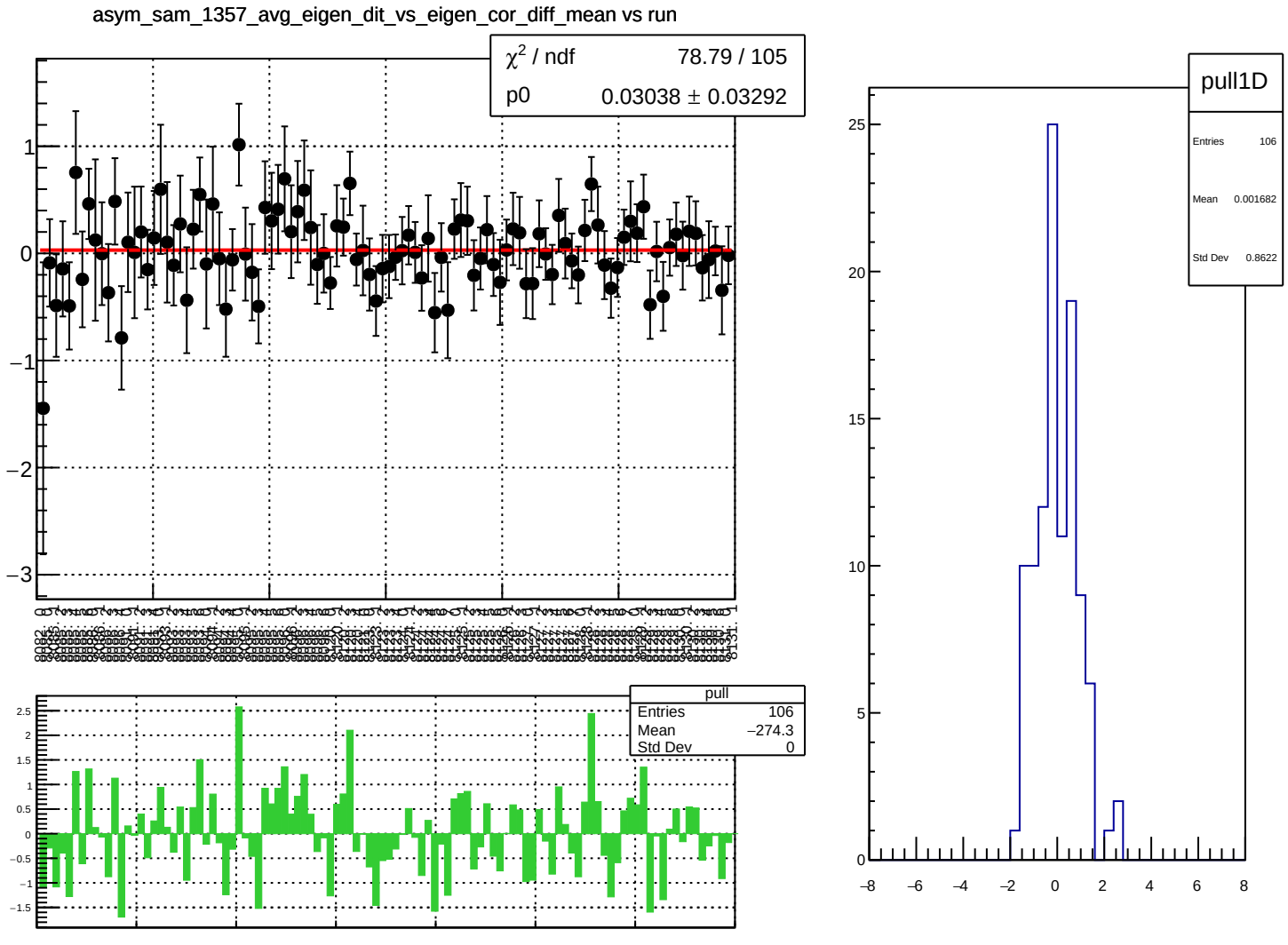

asym_sam_1357_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.033e+05 / 105
p0 32.25 ± 0.02327
90
80
70
60
50
40
30
20

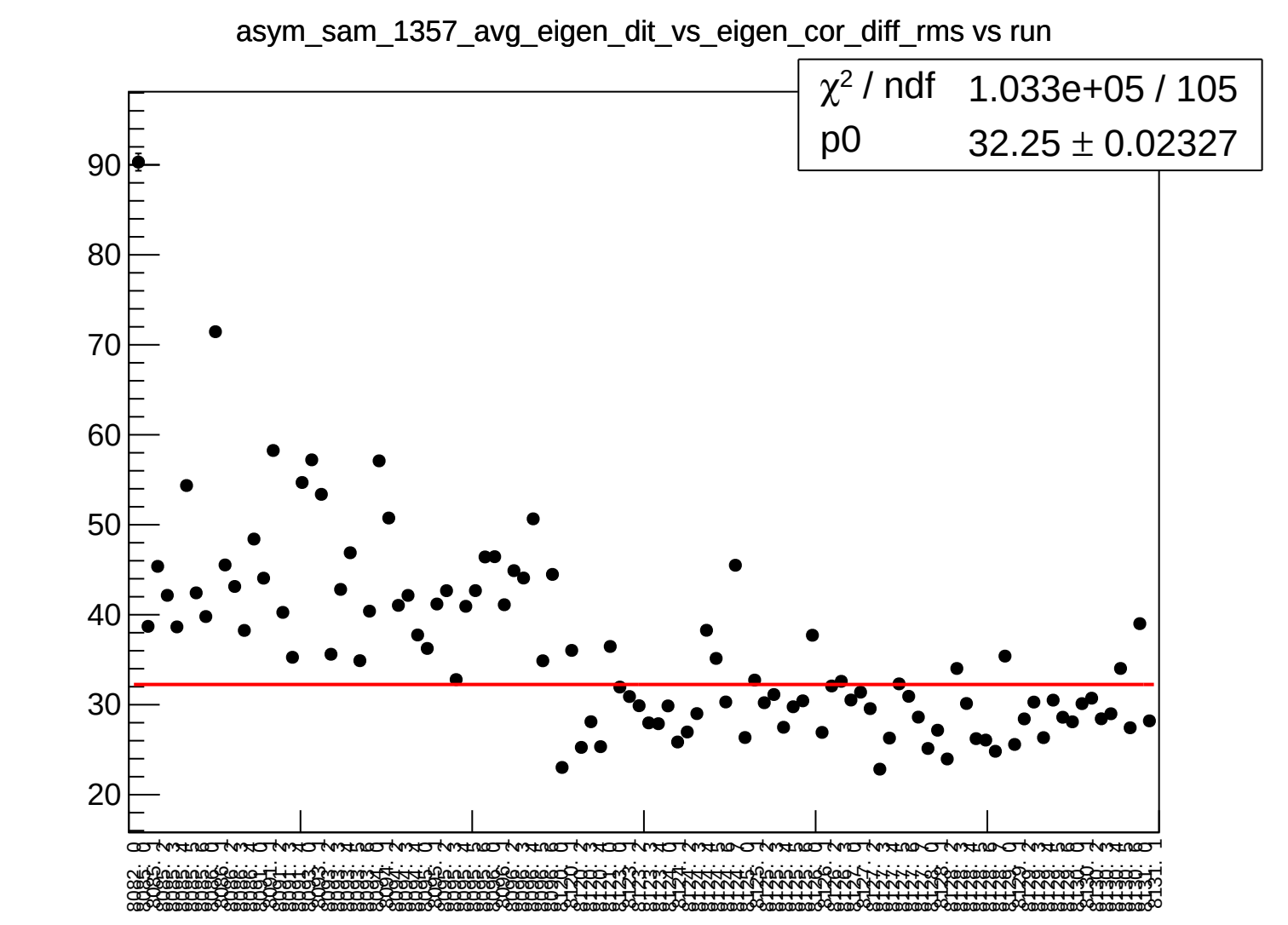

asym_sam_1357_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 68.11 / 104
p0 1.926e−06 ± 1.919e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 105
Mean 123.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 105
Mean 0.01914
Std Dev 0.8052
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

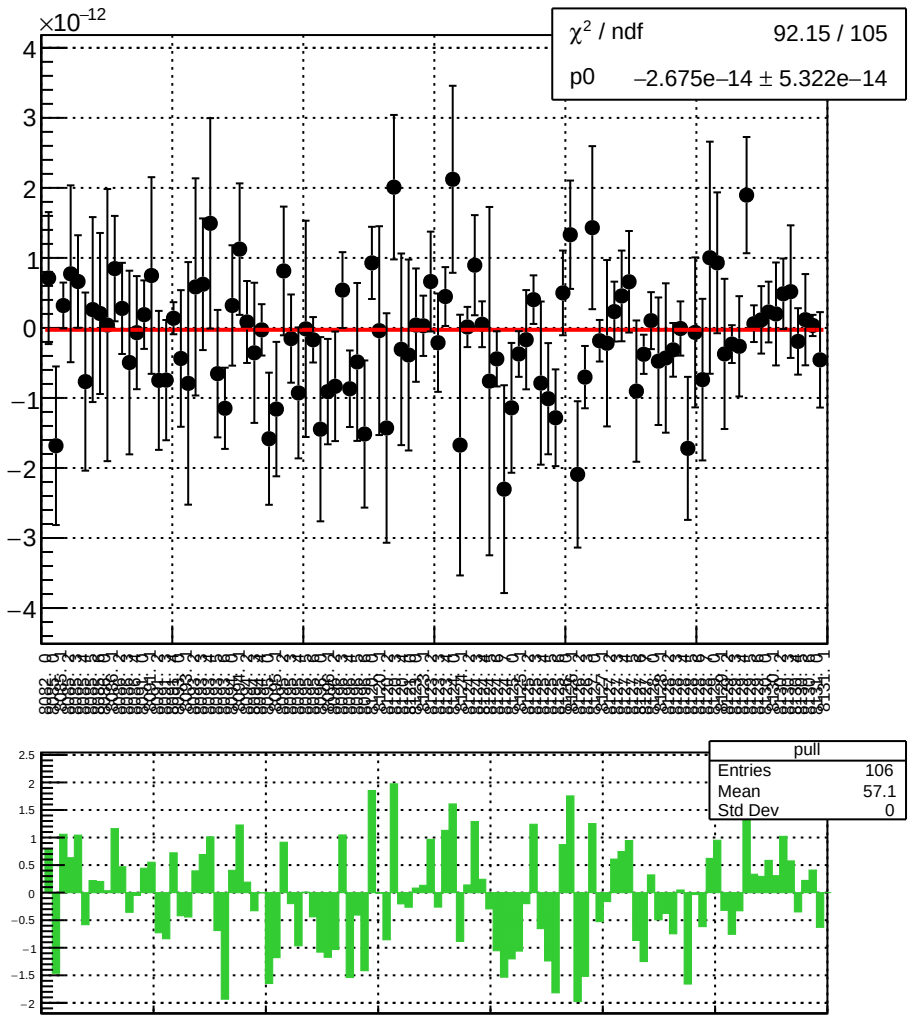

asym_sam_1357_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.324e+05 / 104
p0 0.001812 ± 1.357e−06
0.0035
0.003
0.0025
0.002
0.0015

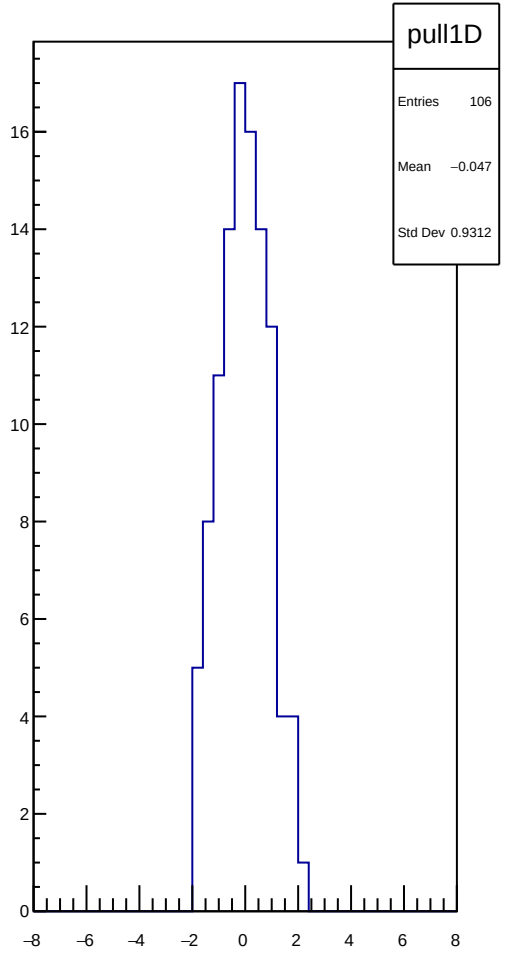

asym_sam_1357_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 78.79 / 105
p0 0.03038 ± 0.03292
pull
Entries 106
Mean −274.3
Std Dev 0
pull1D
Entries 106
Mean 0.001682
Std Dev 0.8622

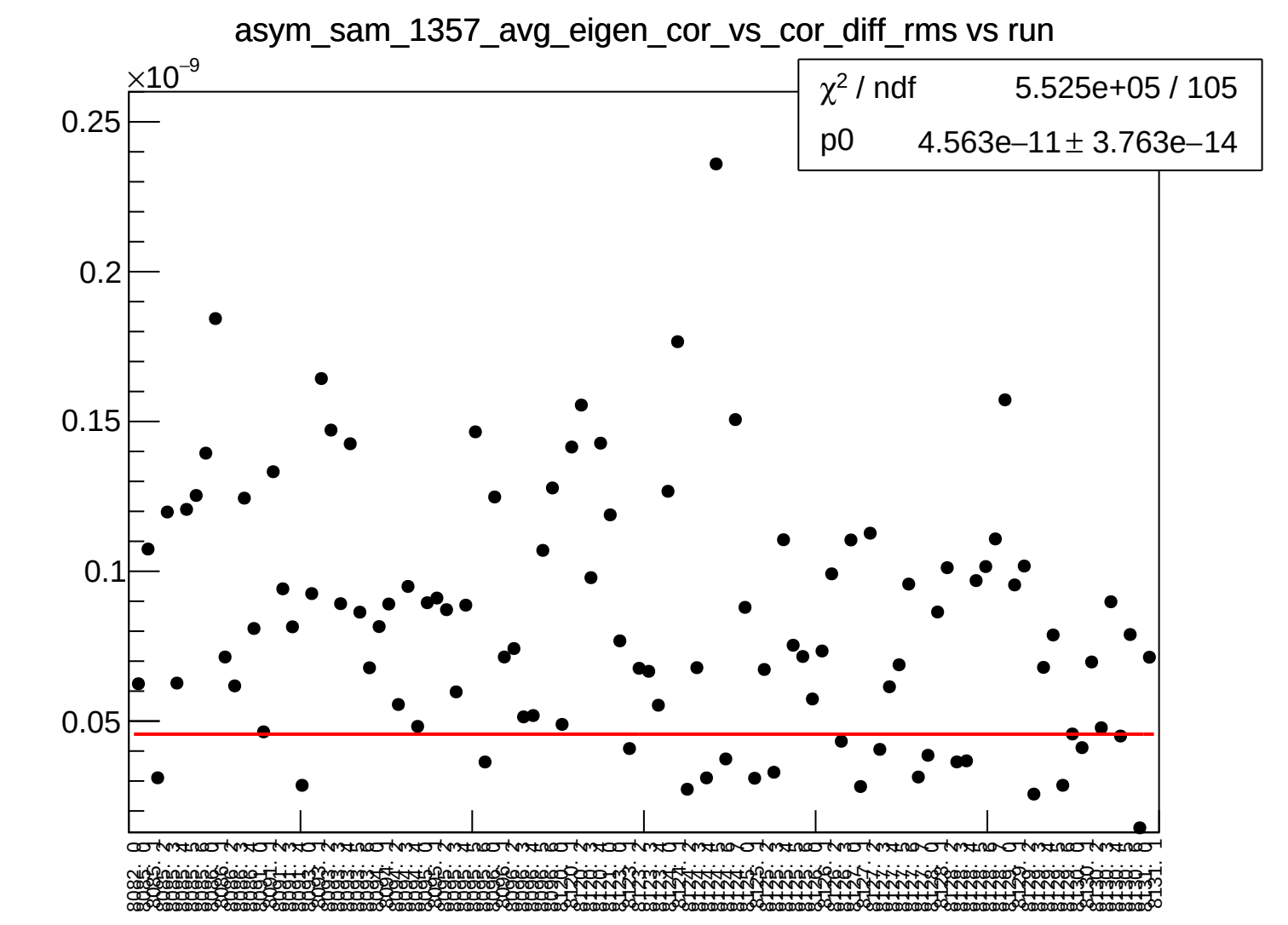

asym_sam_1357_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.033e+05 / 105
p0 32.25 ± 0.02327
90
80
70
60
50
40
30
20

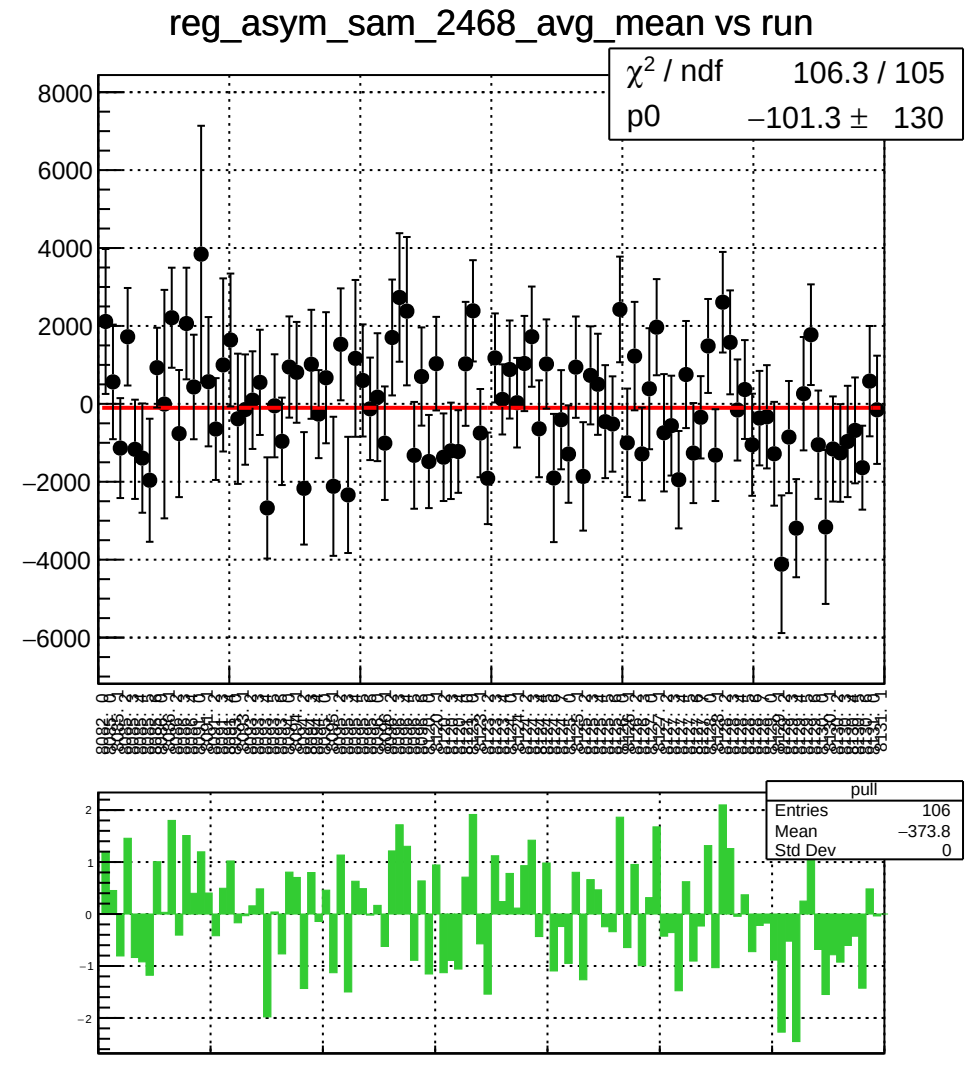

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 78.79 / 105
p0 0.03038 ± 0.03292
pull
Entries 106
Mean −274.3
Std Dev 0
pull1D
Entries 106
Mean 0.001682
Std Dev 0.8622

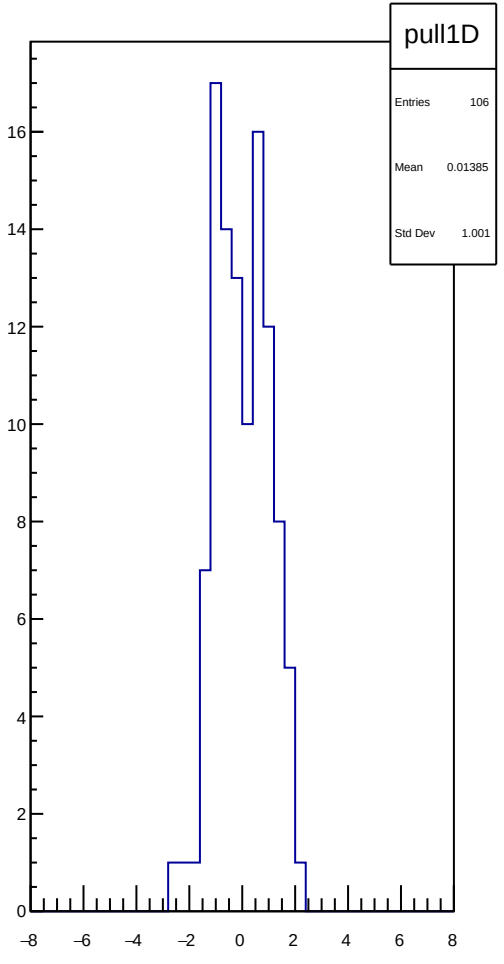

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
$\chi^2$ / ndf 1.033e+05 / 105
p0 32.25 ± 0.02327
90
80
70
60
50
40
30
20

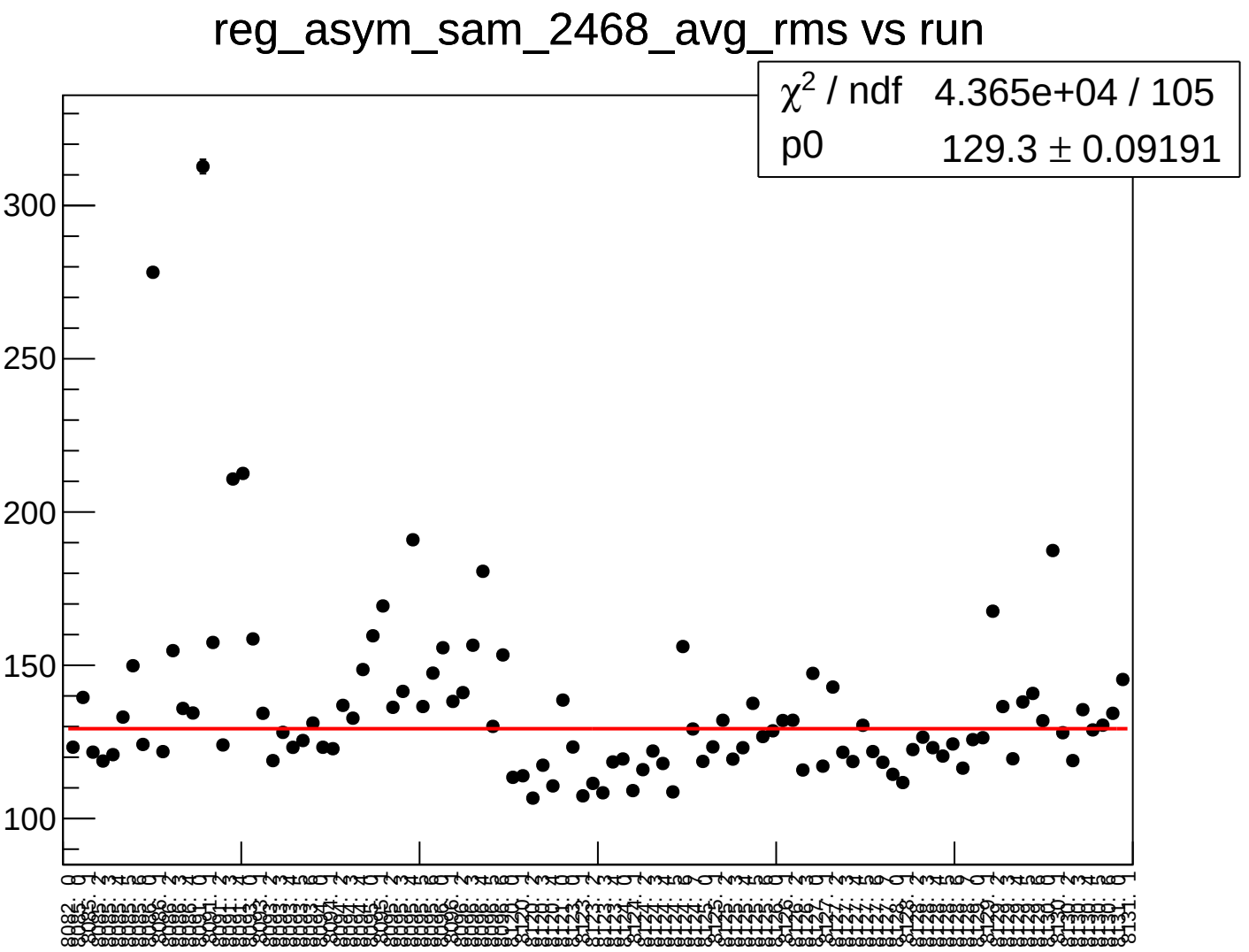

asym_sam_1357_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.15 / 105
p0 −2.675e−14 ± 5.322e−14
pull
Entries 106
Mean 57.1
Std Dev 0

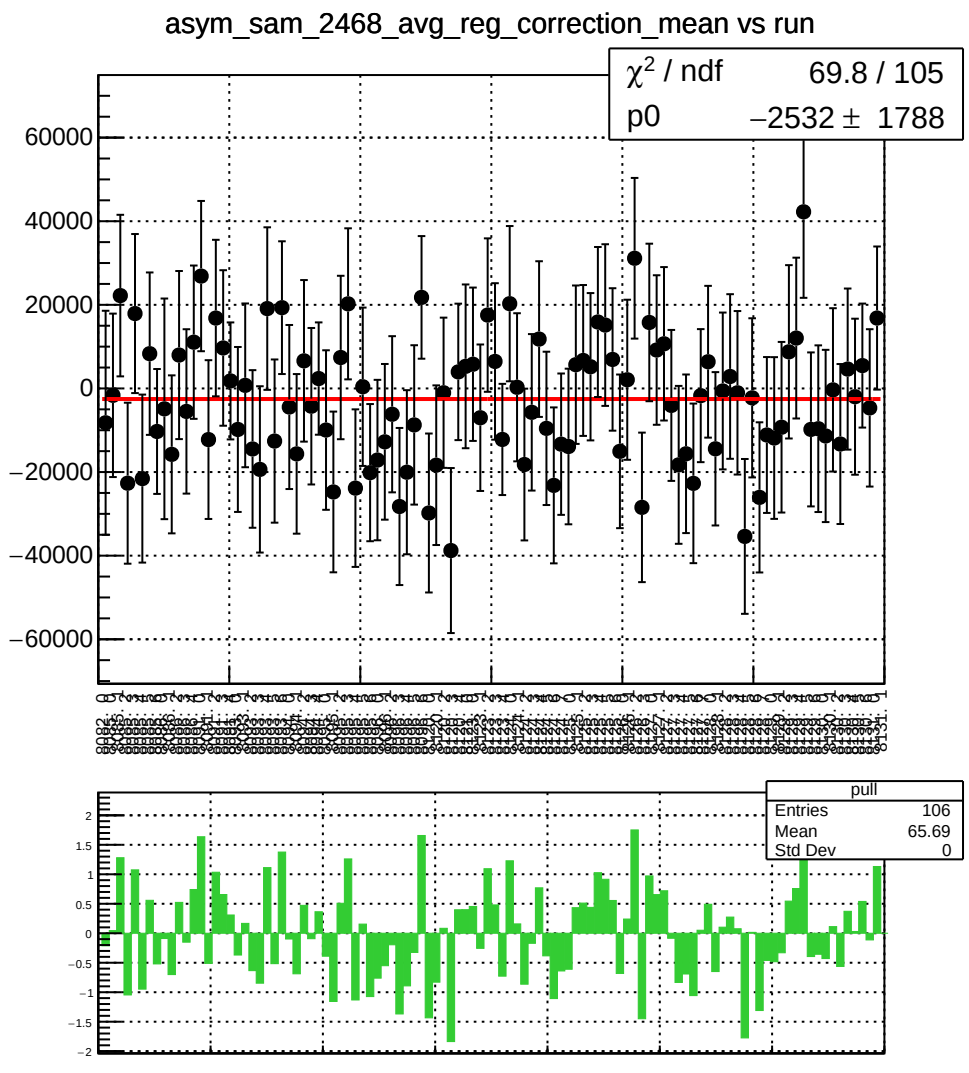

pull1D
Entries 106
Mean −0.047
Std Dev 0.9312

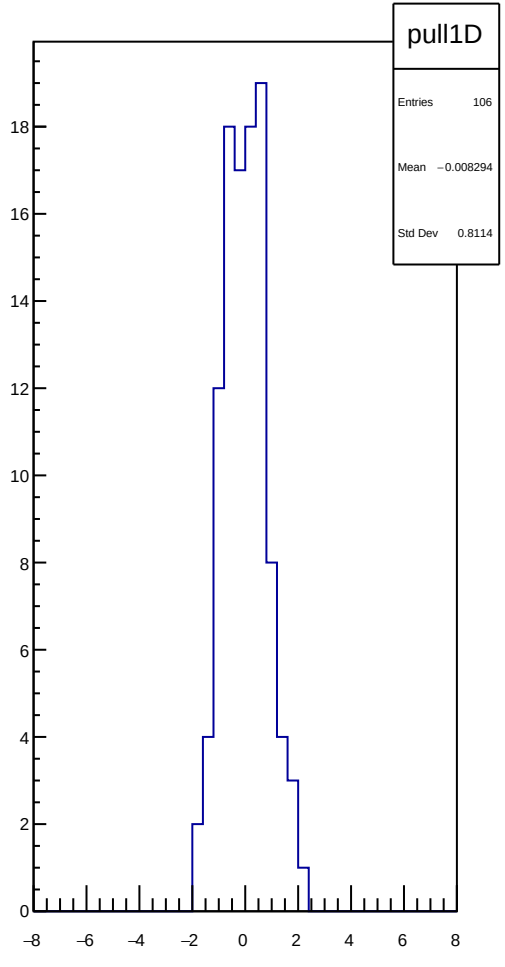

asym_sam_1357_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.525e+05 / 105
p0 4.563e−11 ± 3.763e−14
0.25
0.2
0.15
0.1
0.05

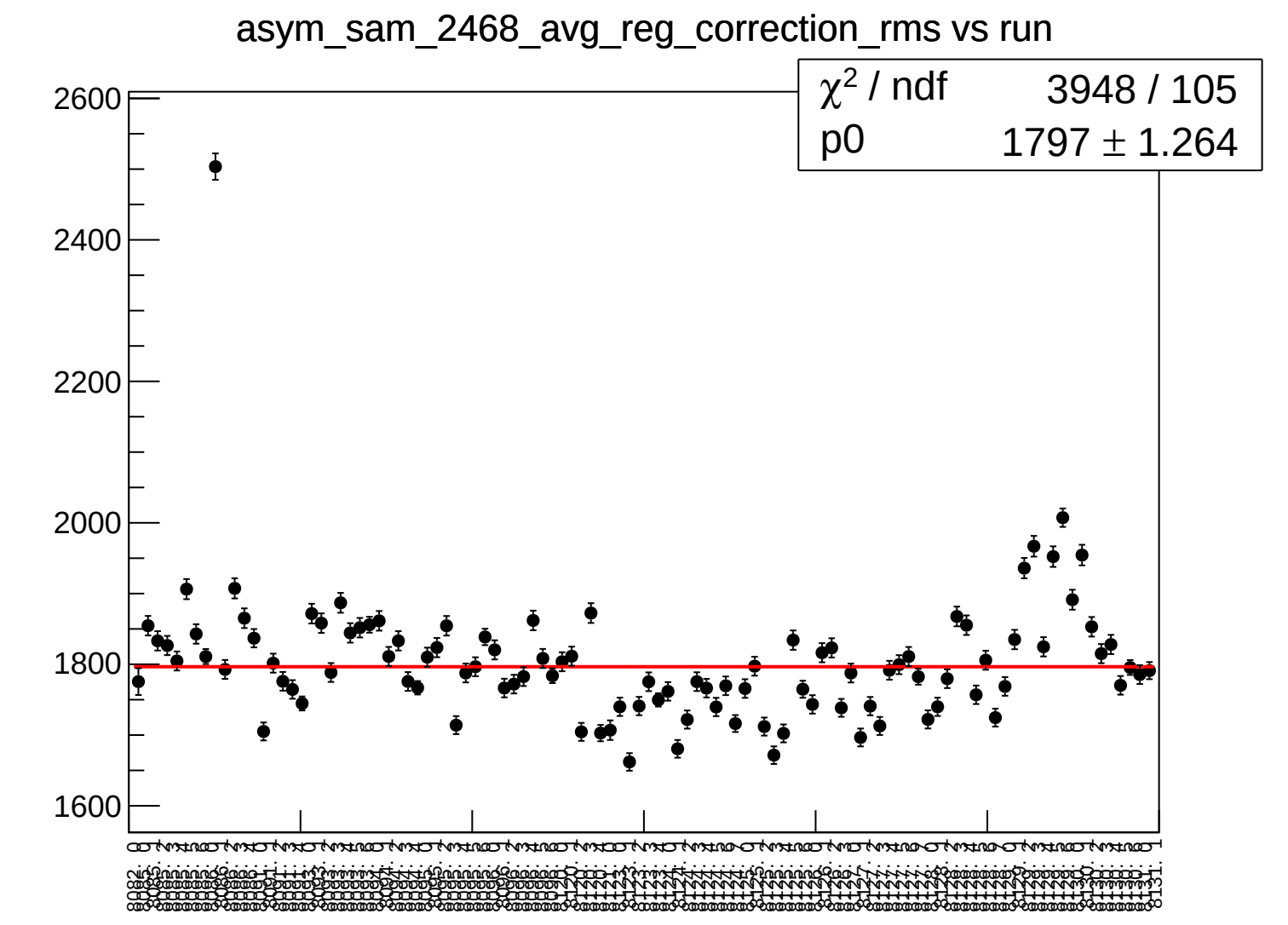

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 106.3 / 105
p0 −101.3 ± 130
pull
Entries 106
Mean −373.8
Std Dev 0

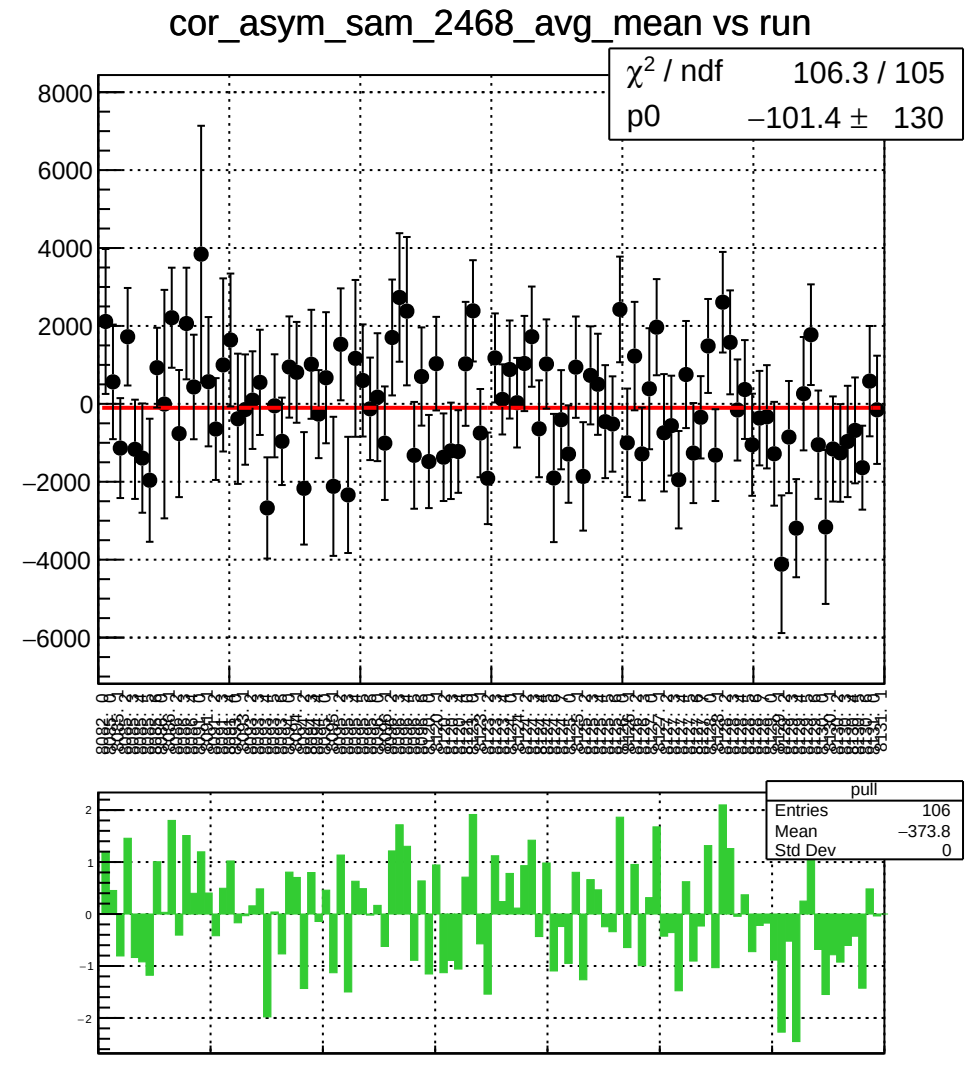

pull1D
Entries 106
Mean 0.01385
Std Dev 1.001

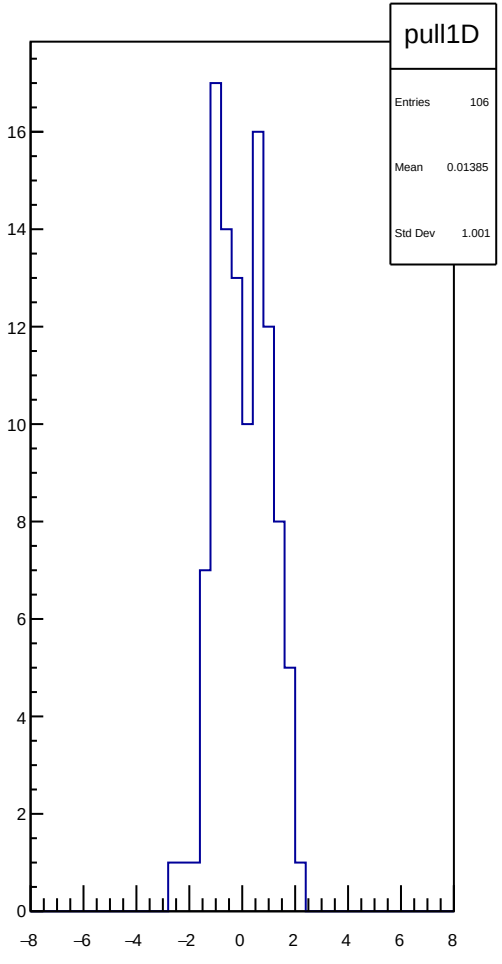

reg_asym_sam_2468_avg_rms vs run
χ² / ndf 4.365e+04 / 105
p0 129.3 ± 0.09191
300
250
200
150
100

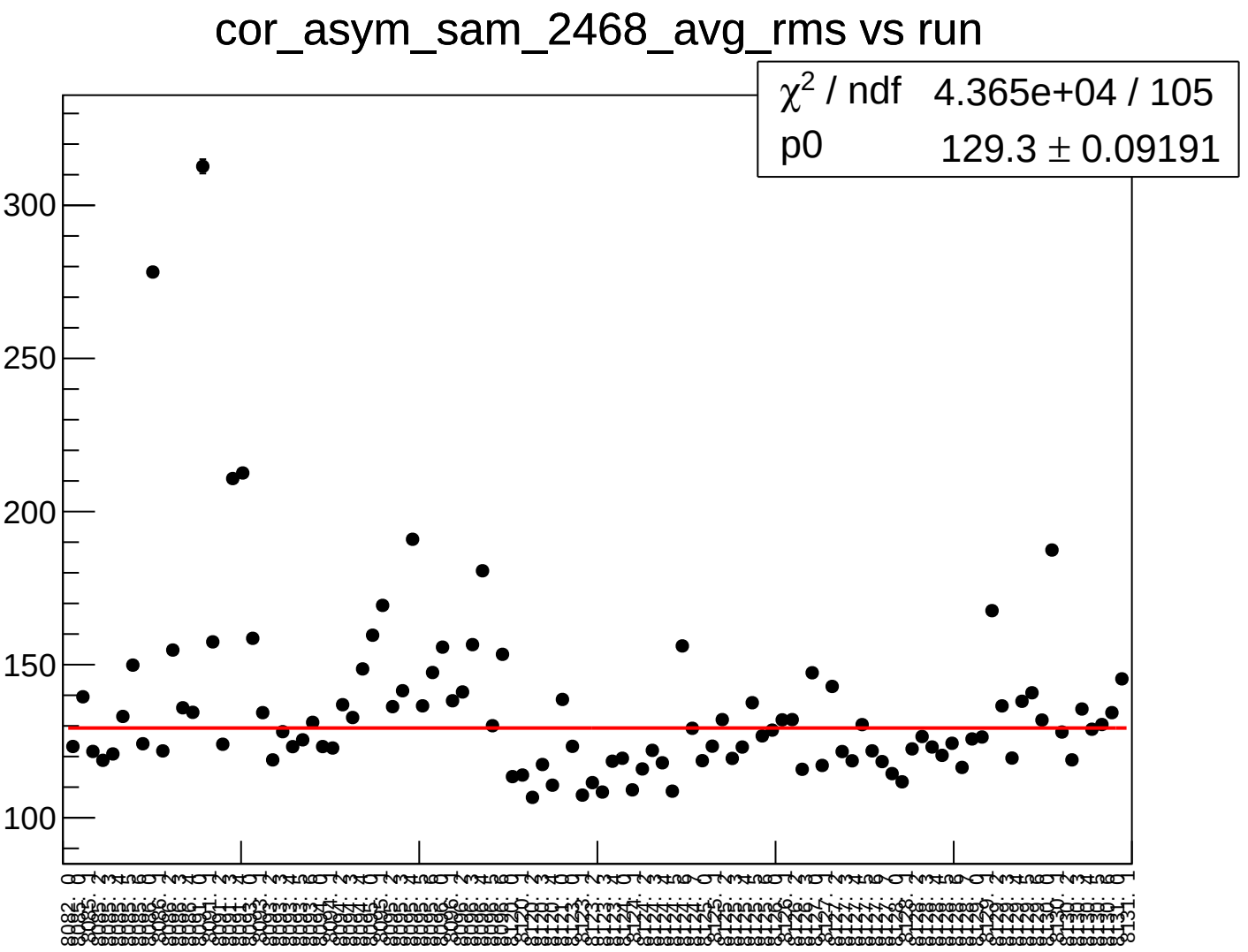

asym_sam_2468_avg_reg_correction_mean vs run
χ² / ndf 69.8 / 105
p0 −2532 ± 1788
pull
Entries 106
Mean 65.69
Std Dev 0

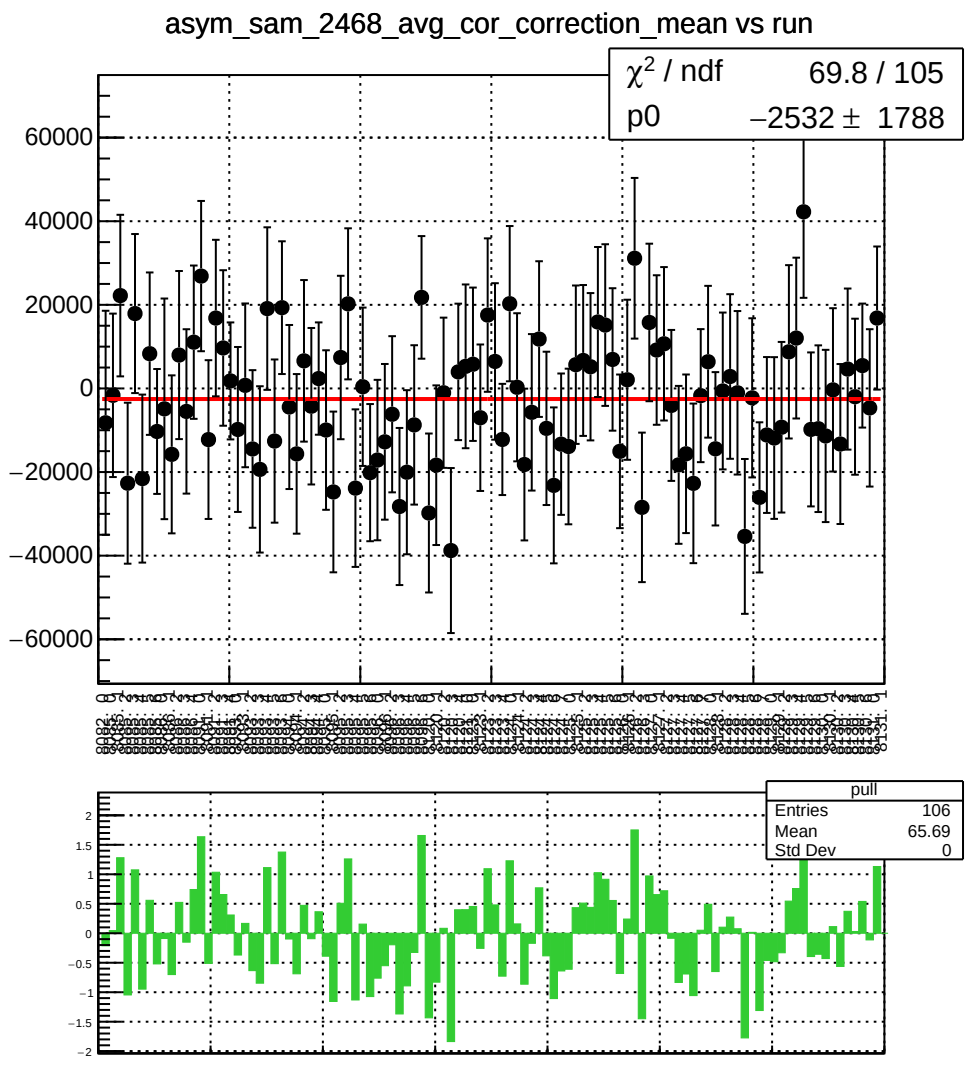

pull1D
Entries 106
Mean −0.008294
Std Dev 0.8114

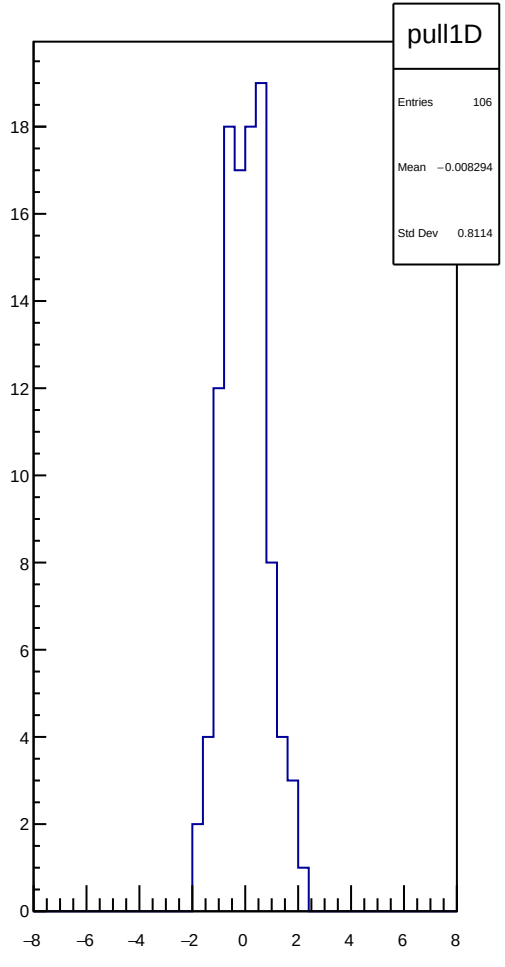

asym_sam_2468_avg_reg_correction_rms vs run
χ² / ndf 3948 / 105
p0 1797 ± 1.264
2600
2400
2200
2000
1800
1600

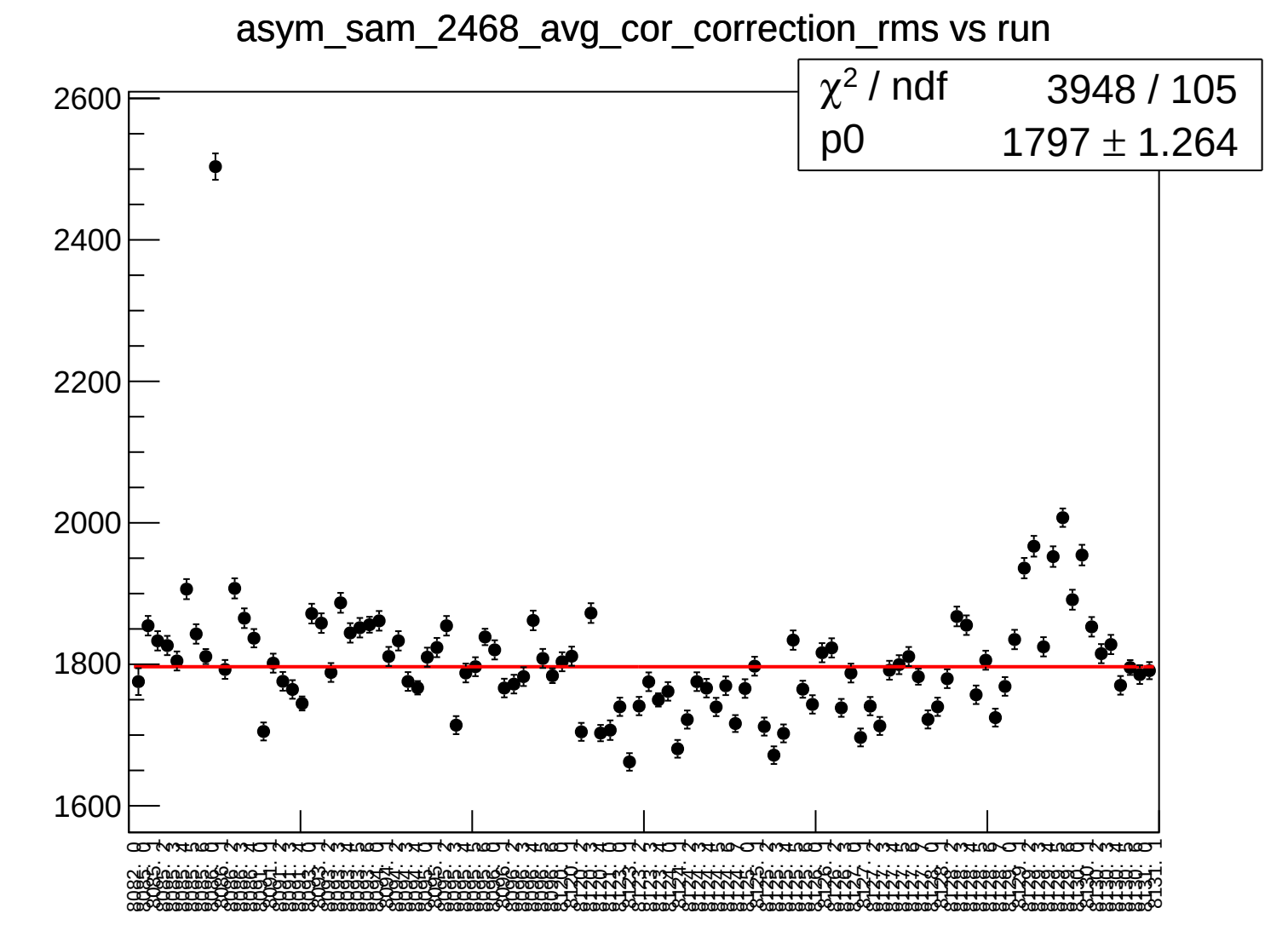

cor_asym_sam_2468_avg_mean vs run
χ² / ndf 106.3 / 105
p0 −101.4 ± 130
pull
Entries 106
Mean −373.8
Std Dev 0

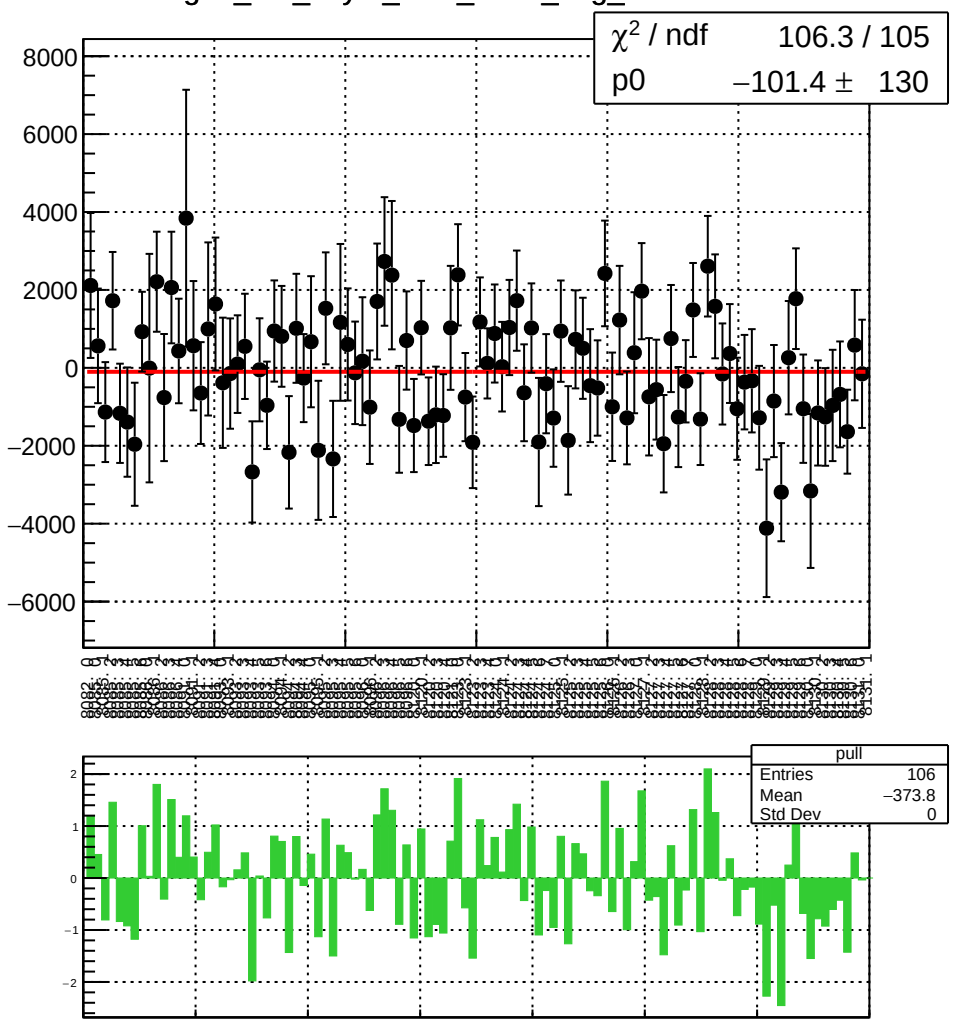

pull1D
Entries 106
Mean 0.01385
Std Dev 1.001

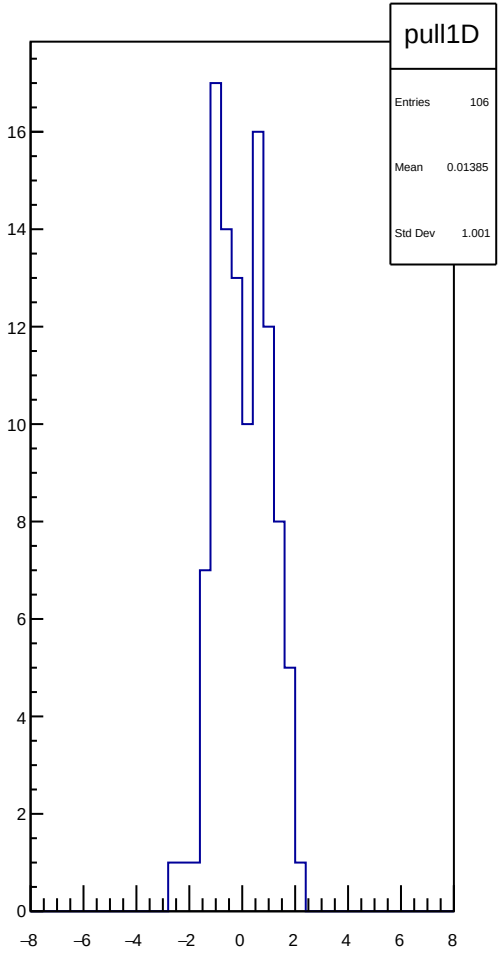

cor_asym_sam_2468_avg_rms vs run
$\chi^2$ / ndf 4.365e+04 / 105
p0 129.3 ± 0.09191
300
250
200
150
100

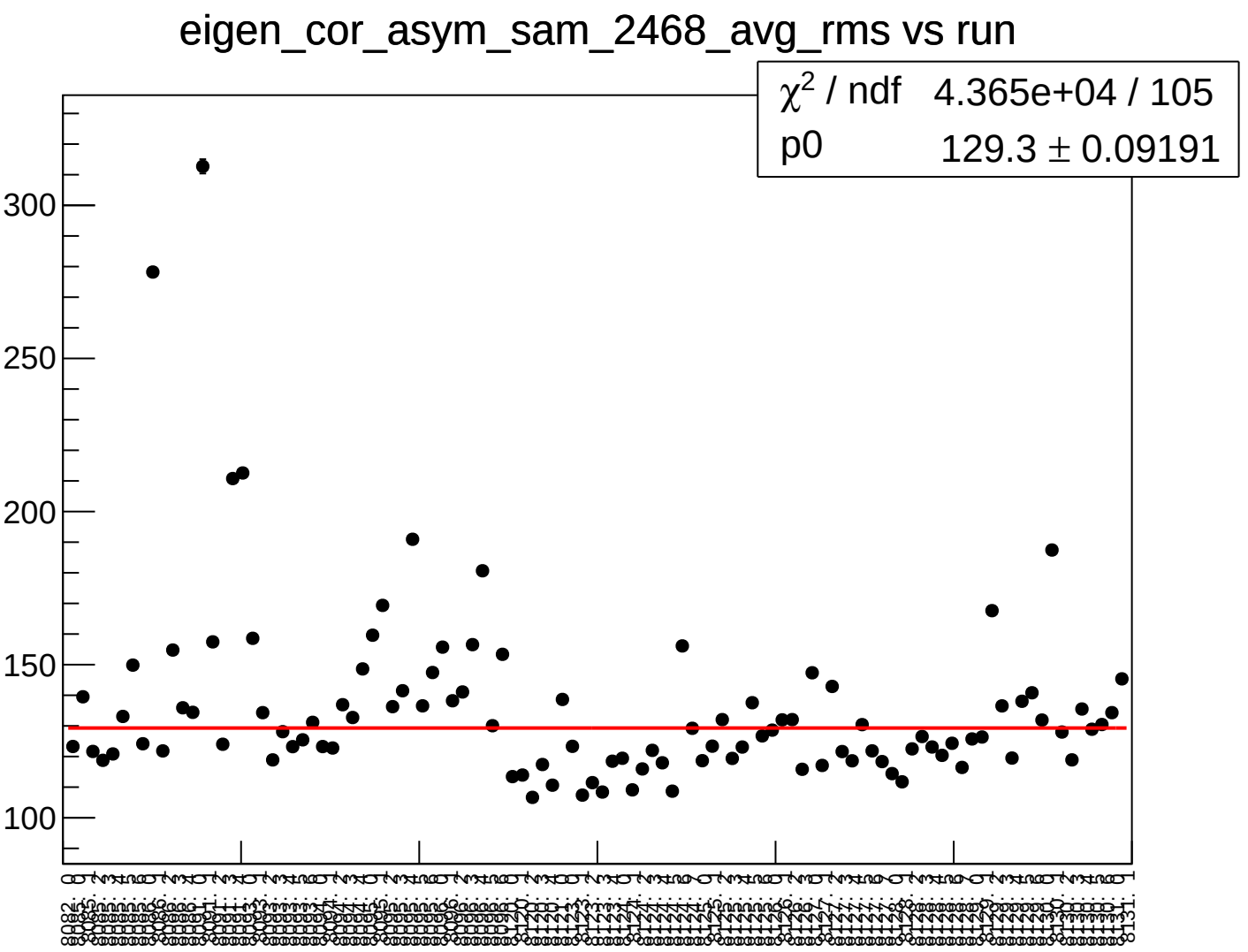

asym_sam_2468_avg_cor_correction_mean vs run
χ² / ndf 69.8 / 105
p0 −2532 ± 1788
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean 65.69
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

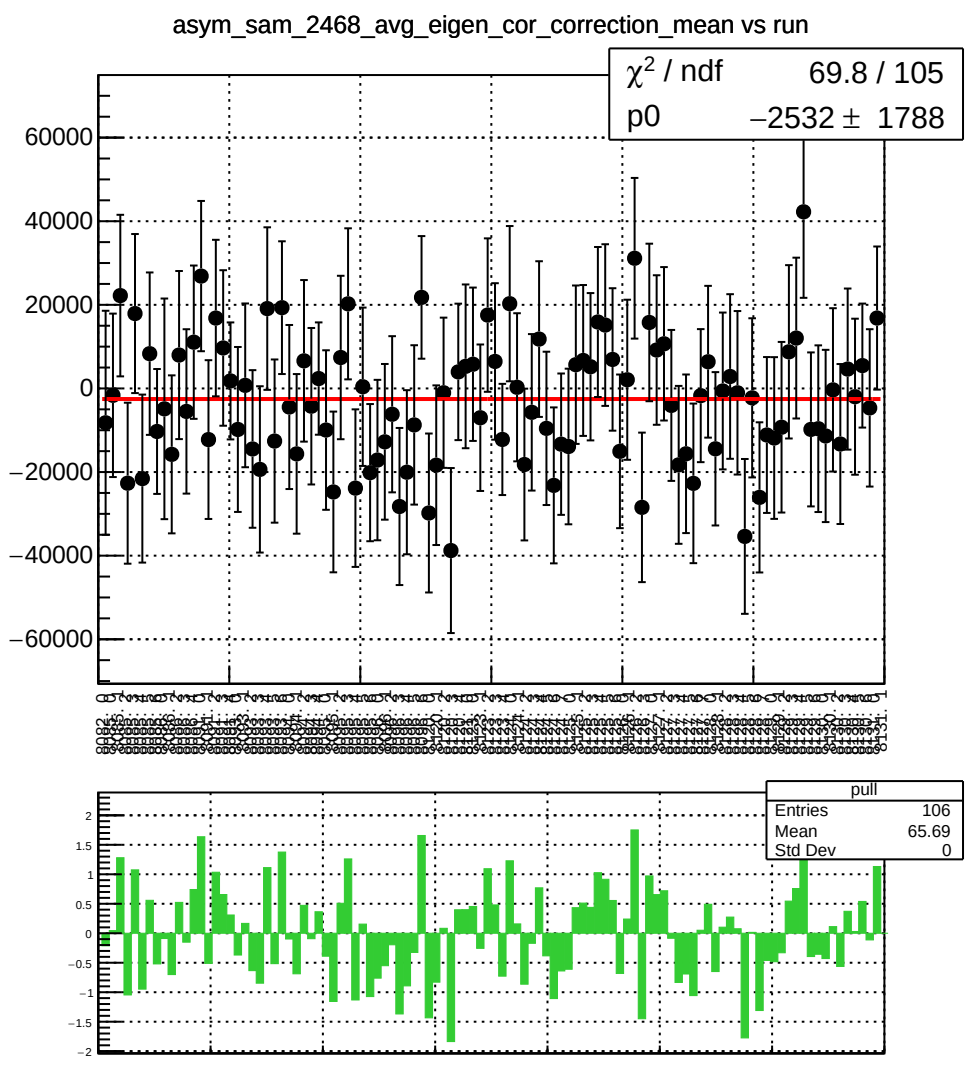

pull1D
Entries 106
Mean −0.008294
Std Dev 0.8114
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

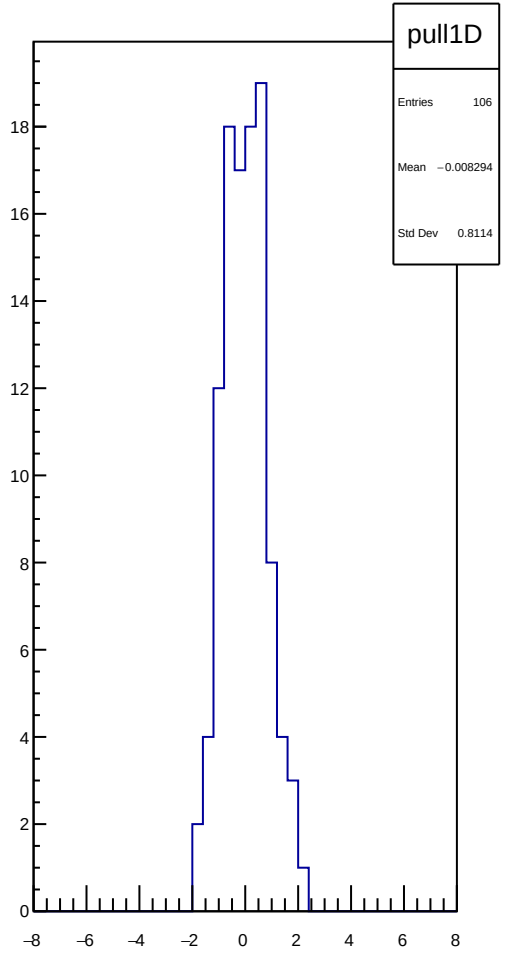

asym_sam_2468_avg_cor_correction_rms vs run
χ² / ndf 3948 / 105
p0 1797 ± 1.264
2600
2400
2200
2000
1800
1600

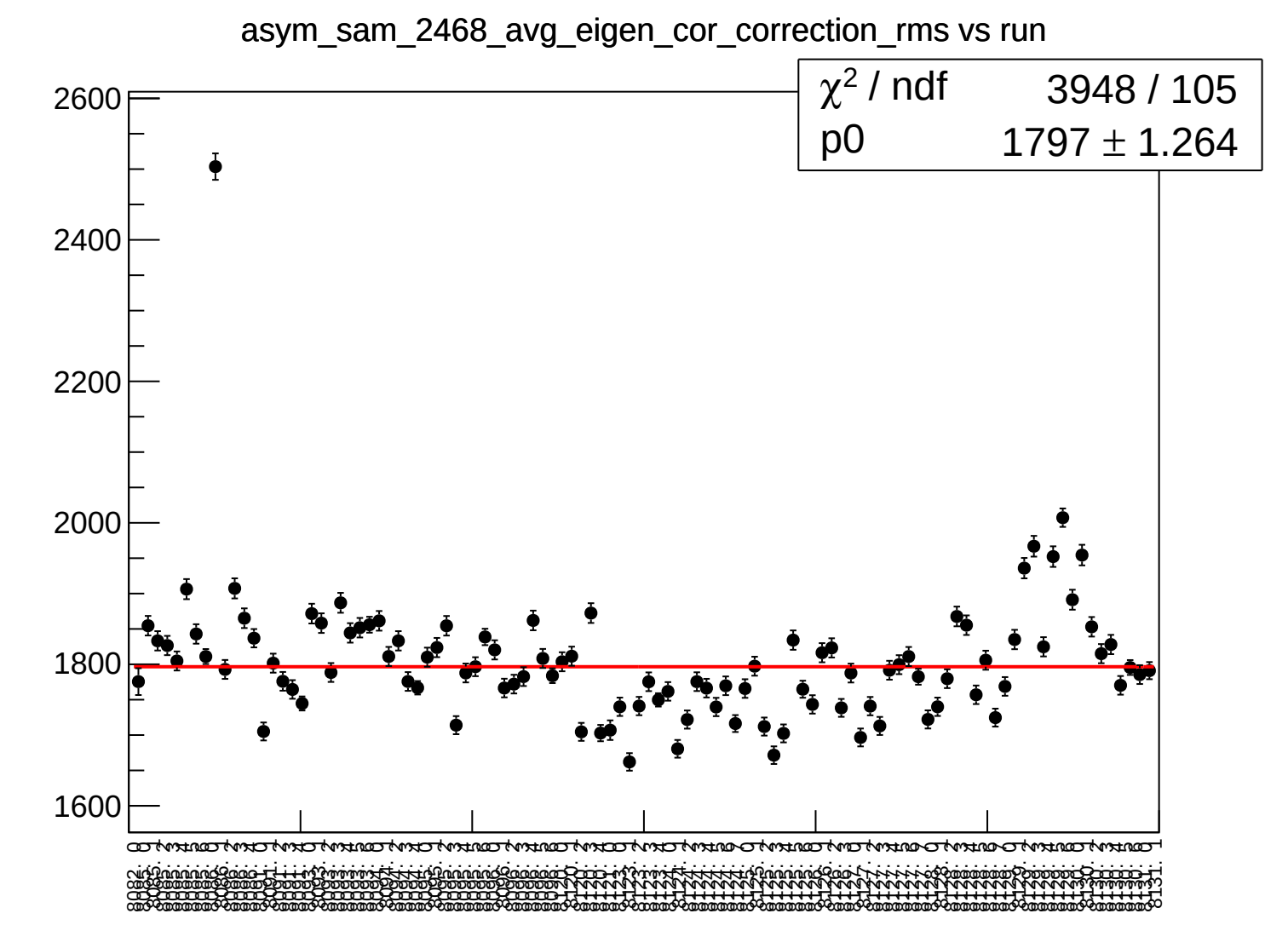

eigen_cor_asym_sam_2468_avg_mean vs run
χ² / ndf 106.3 / 105
p0 −101.4 ± 130
pull
Entries 106
Mean −373.8
Std Dev 0

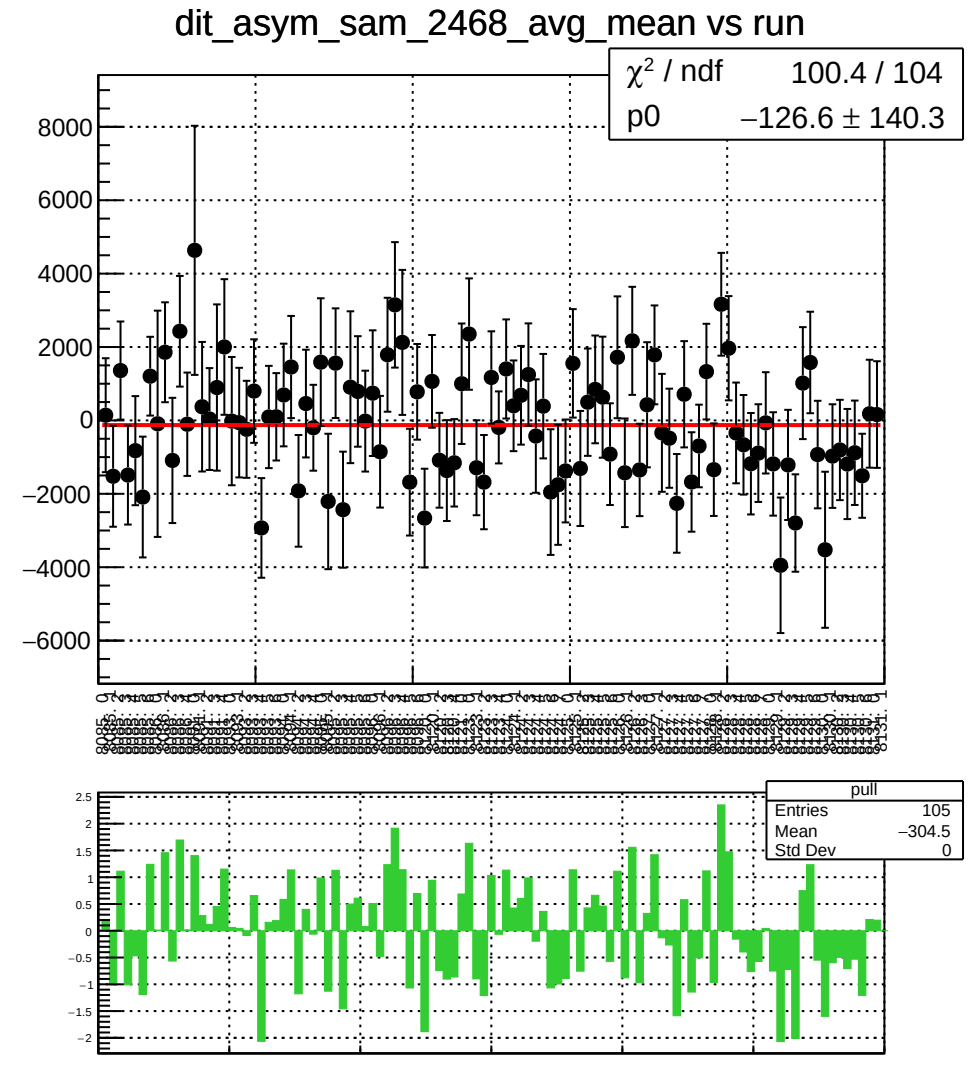

pull1D
Entries 106
Mean 0.01385
Std Dev 1.001

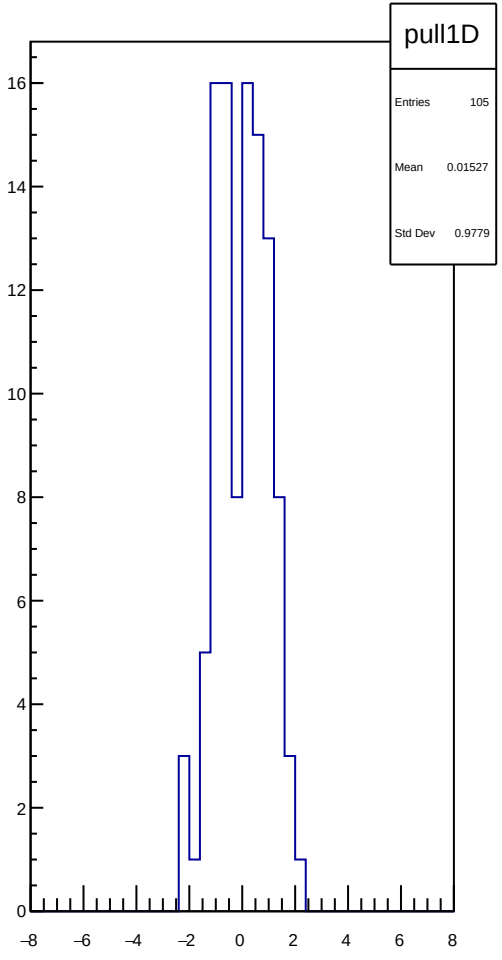

eigen_cor_asym_sam_2468_avg_rms vs run
χ² / ndf 4.365e+04 / 105
p0 129.3 ± 0.09191
300
250
200
150
100

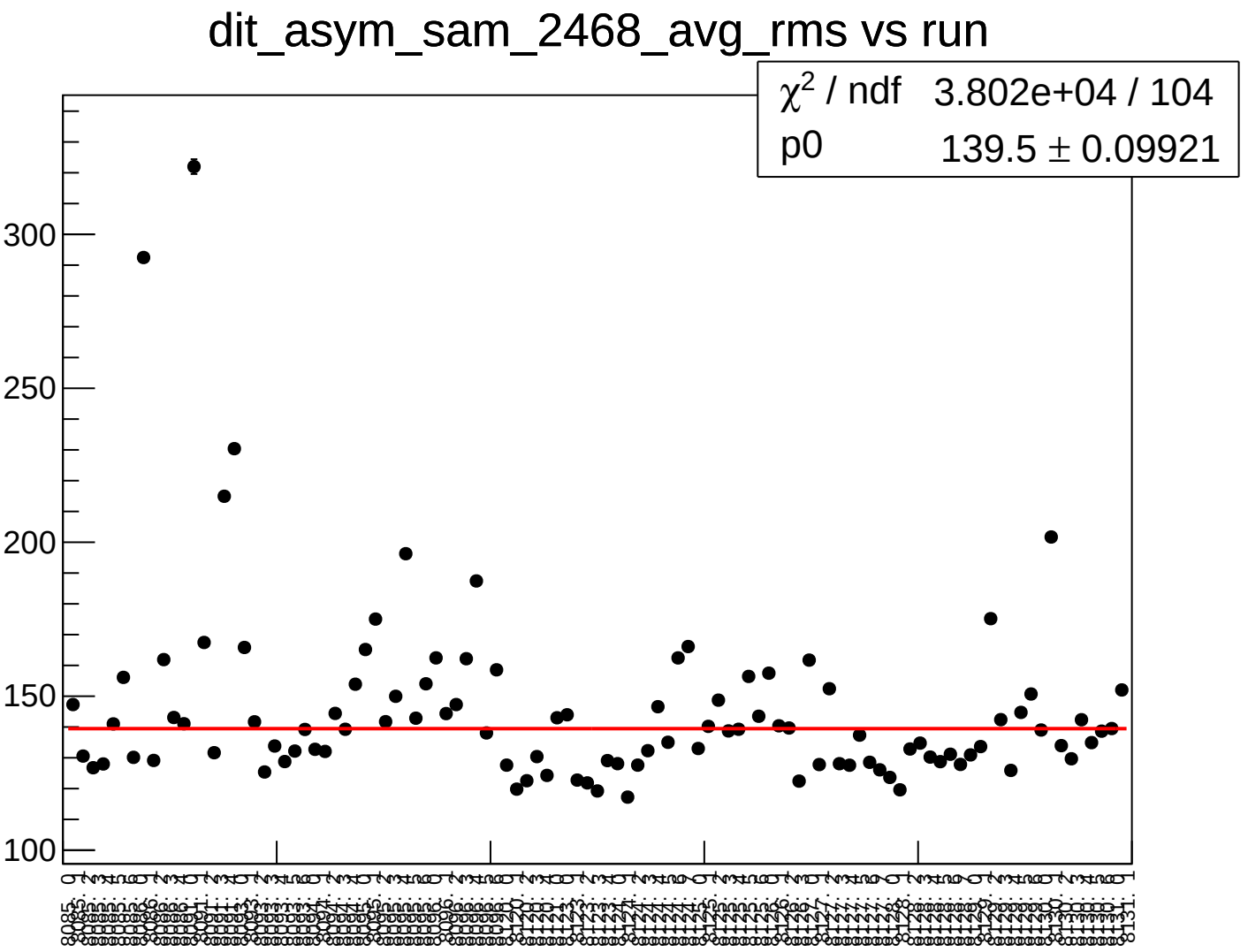

asym_sam_2468_avg_eigen_cor_correction_mean vs run
χ² / ndf 69.8 / 105
p0 −2532 ± 1788
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean 65.69
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

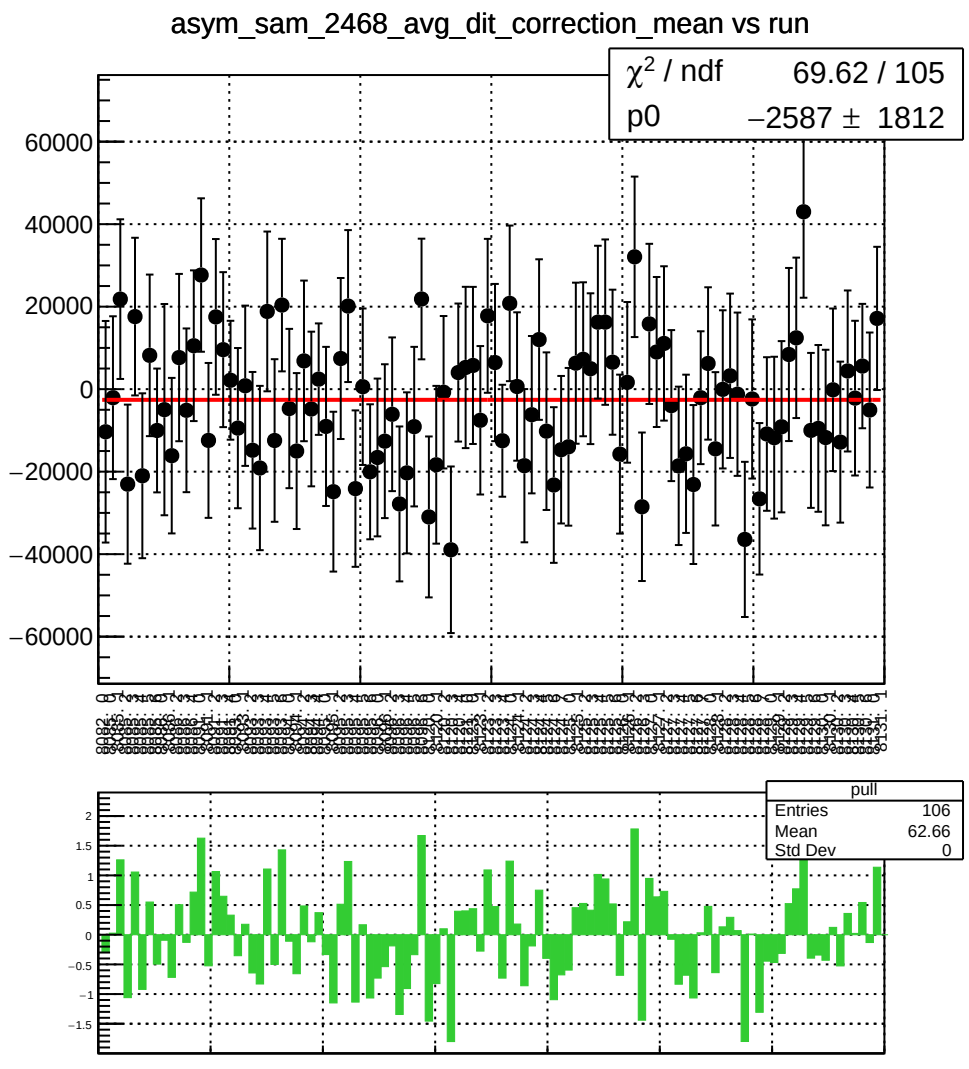

pull1D
Entries 106
Mean −0.008294
Std Dev 0.8114
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

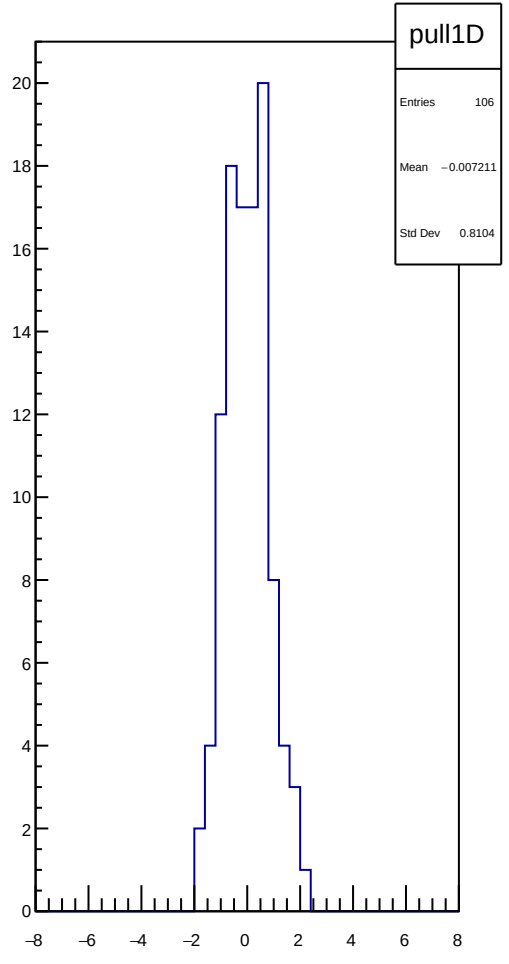

asym_sam_2468_avg_eigen_cor_correction_rms vs run
$\chi^2$ / ndf 3948 / 105
p0 1797 ± 1.264
2600
2400
2200
2000
1800
1600

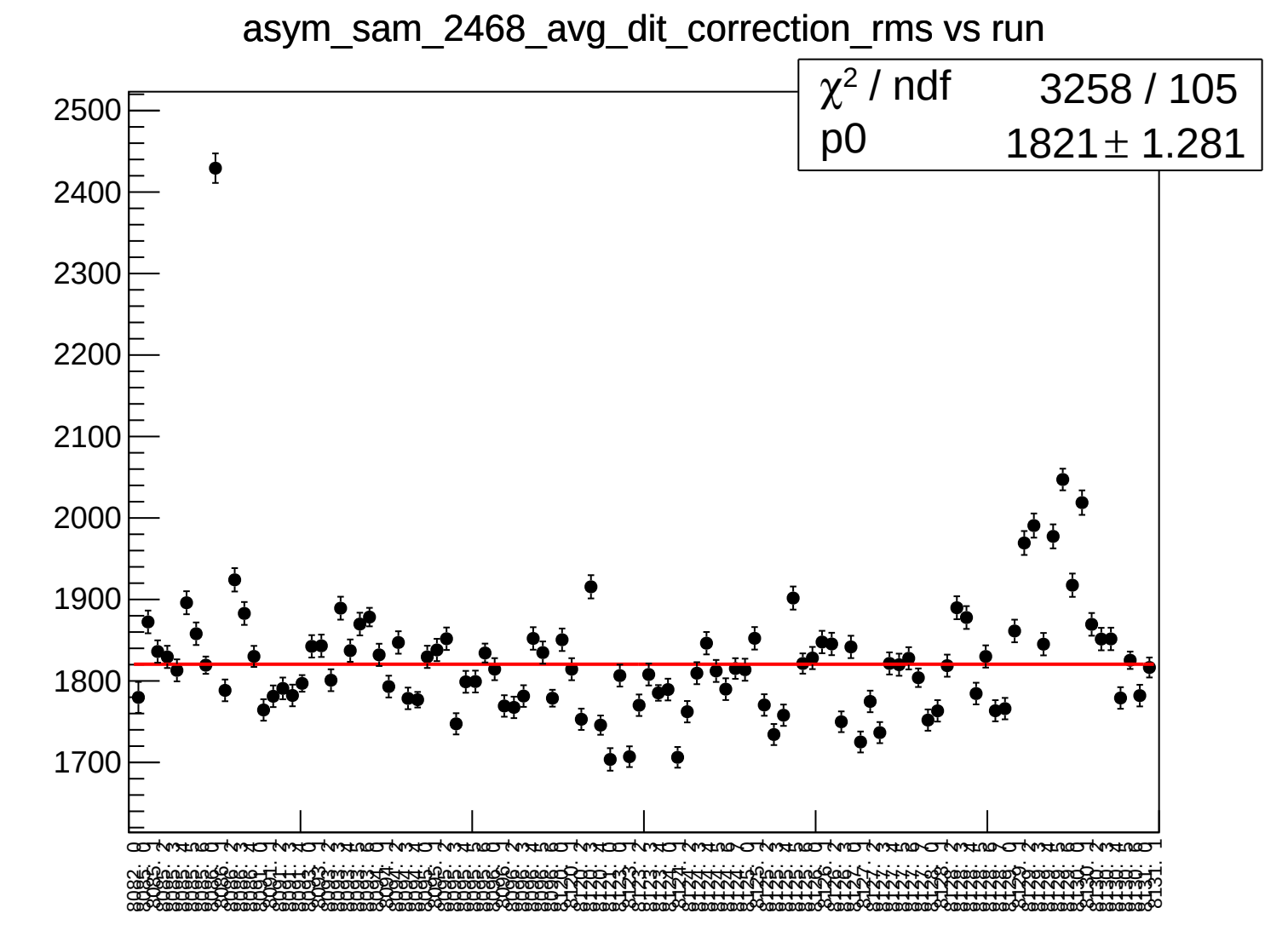

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 100.4 / 104
p0 −126.6 ± 140.3
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 105
Mean −304.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

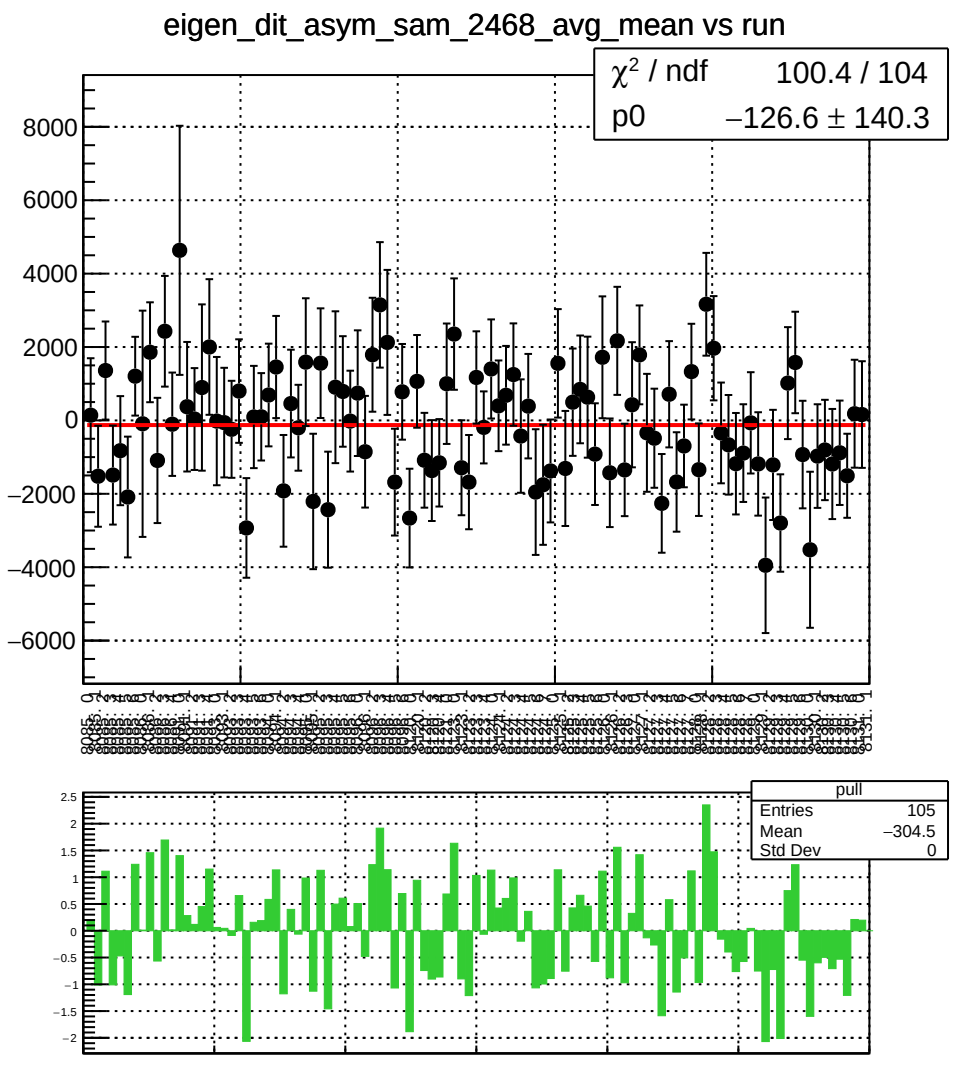

pull1D
Entries 105
Mean 0.01527
Std Dev 0.9779
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

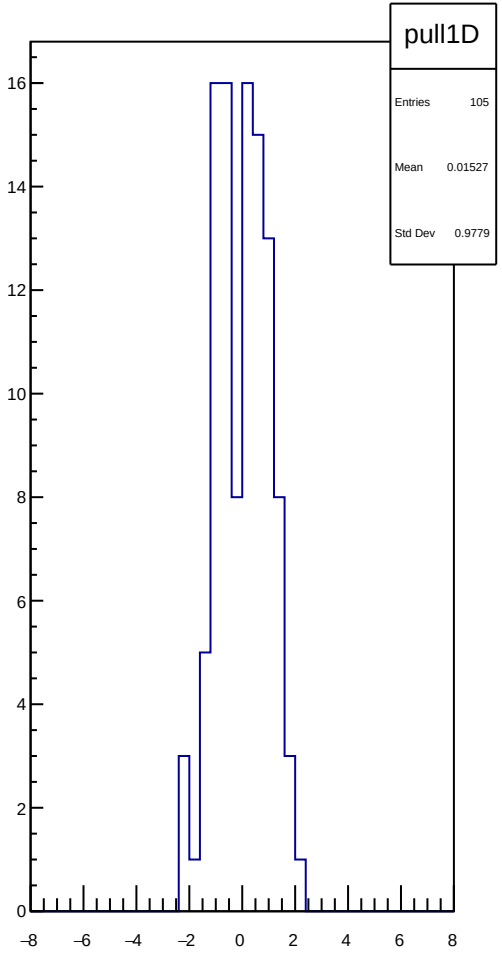

dit_asym_sam_2468_avg_rms vs run
$\chi^2$ / ndf 3.802e+04 / 104
p0 139.5 ± 0.09921
300
250
200
150
100

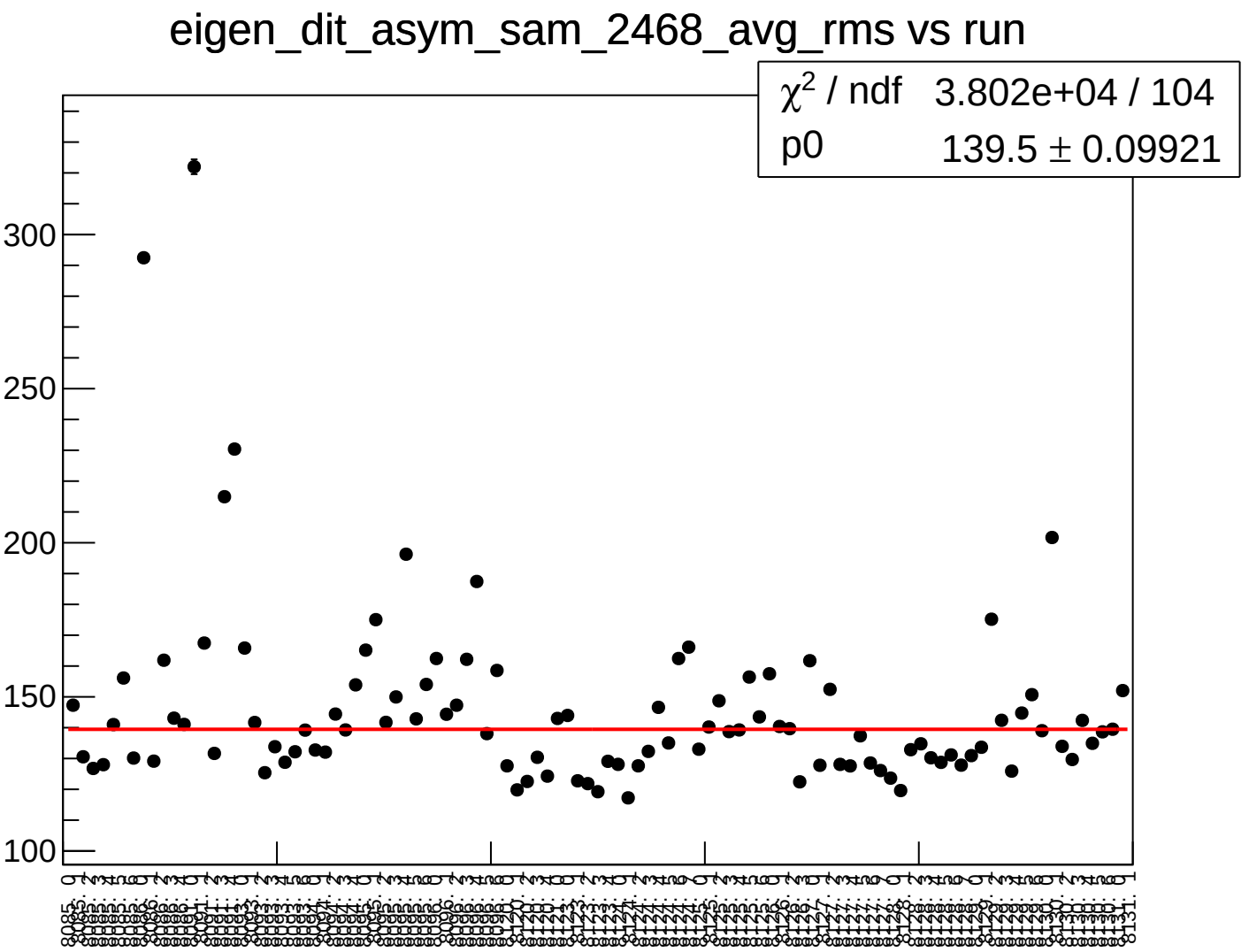

asym_sam_2468_avg_dit_correction_mean vs run
χ² / ndf 69.62 / 105
p0 −2587 ± 1812
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean 62.66
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

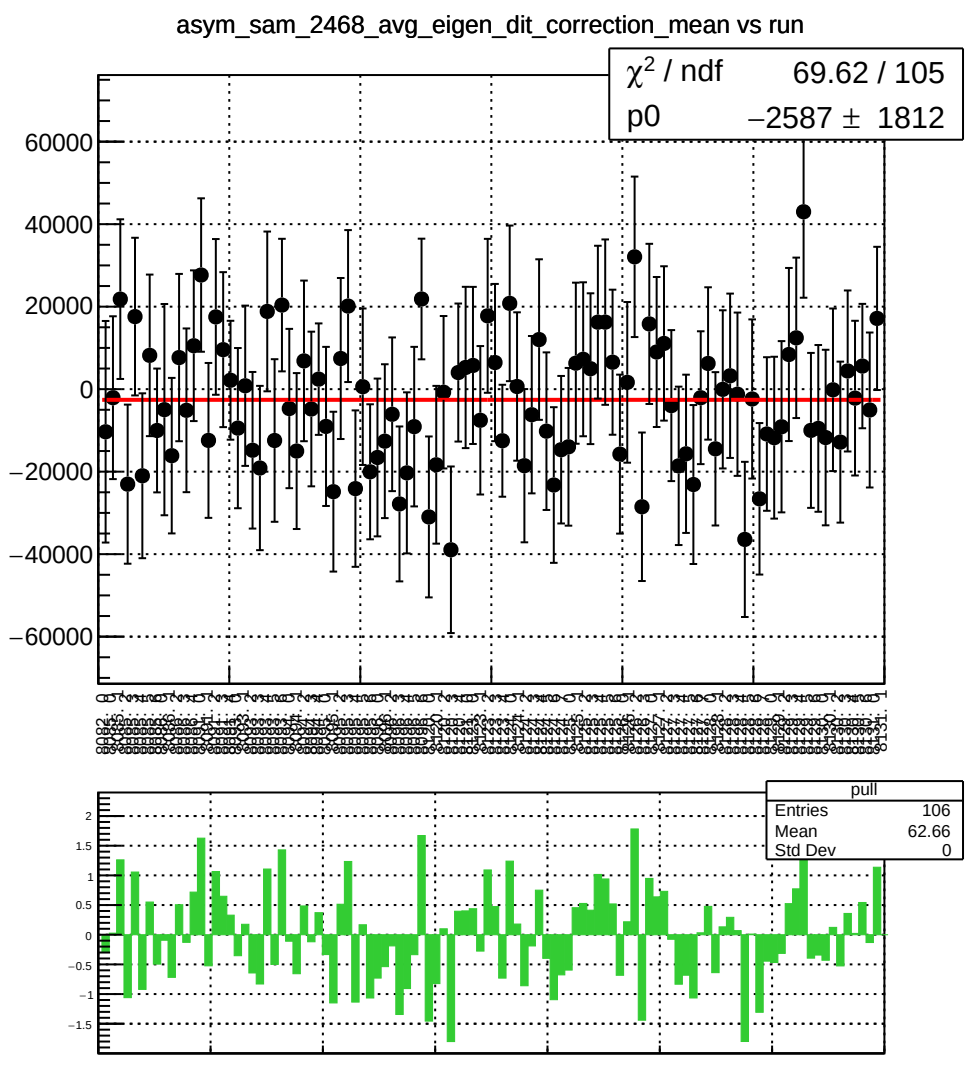

pull1D
Entries 106
Mean −0.007211
Std Dev 0.8104
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

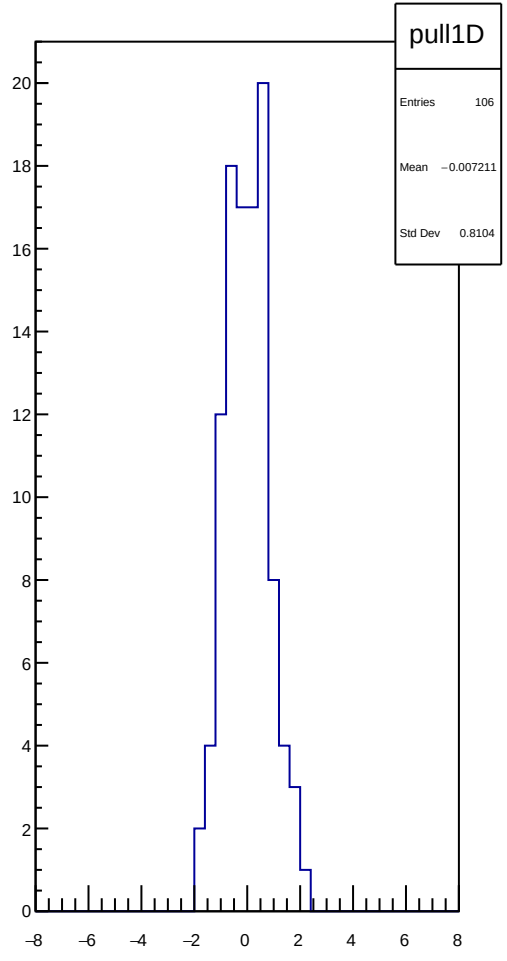

asym_sam_2468_avg_dit_correction_rms vs run
χ² / ndf 3258 / 105
p0 1821 ± 1.281
2500
2400
2300
2200
2100
2000
1900
1800
1700

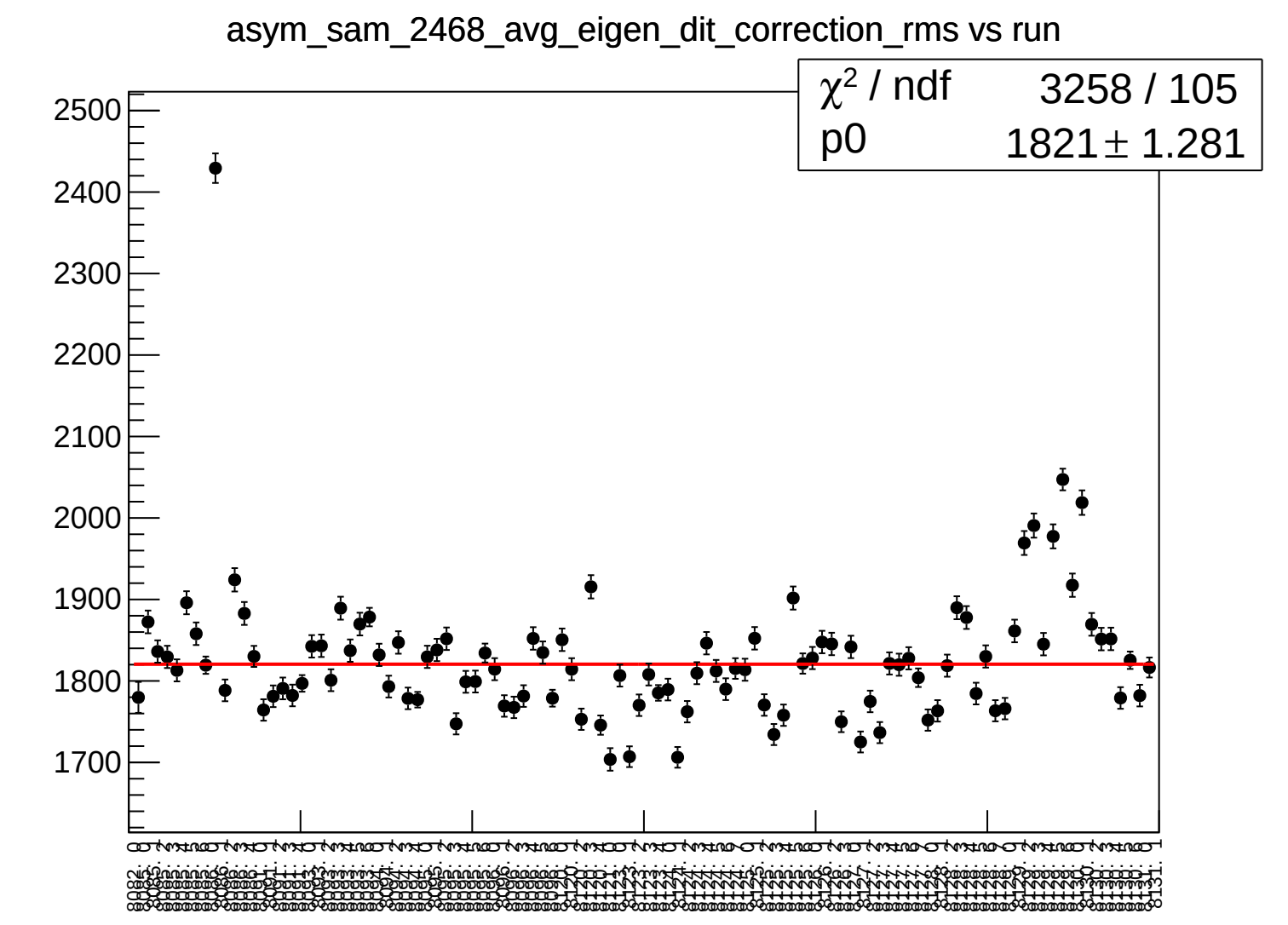

eigen_dit_asym_sam_2468_avg_mean vs run
χ² / ndf 100.4 / 104
p0 −126.6 ± 140.3
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 105
Mean −304.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

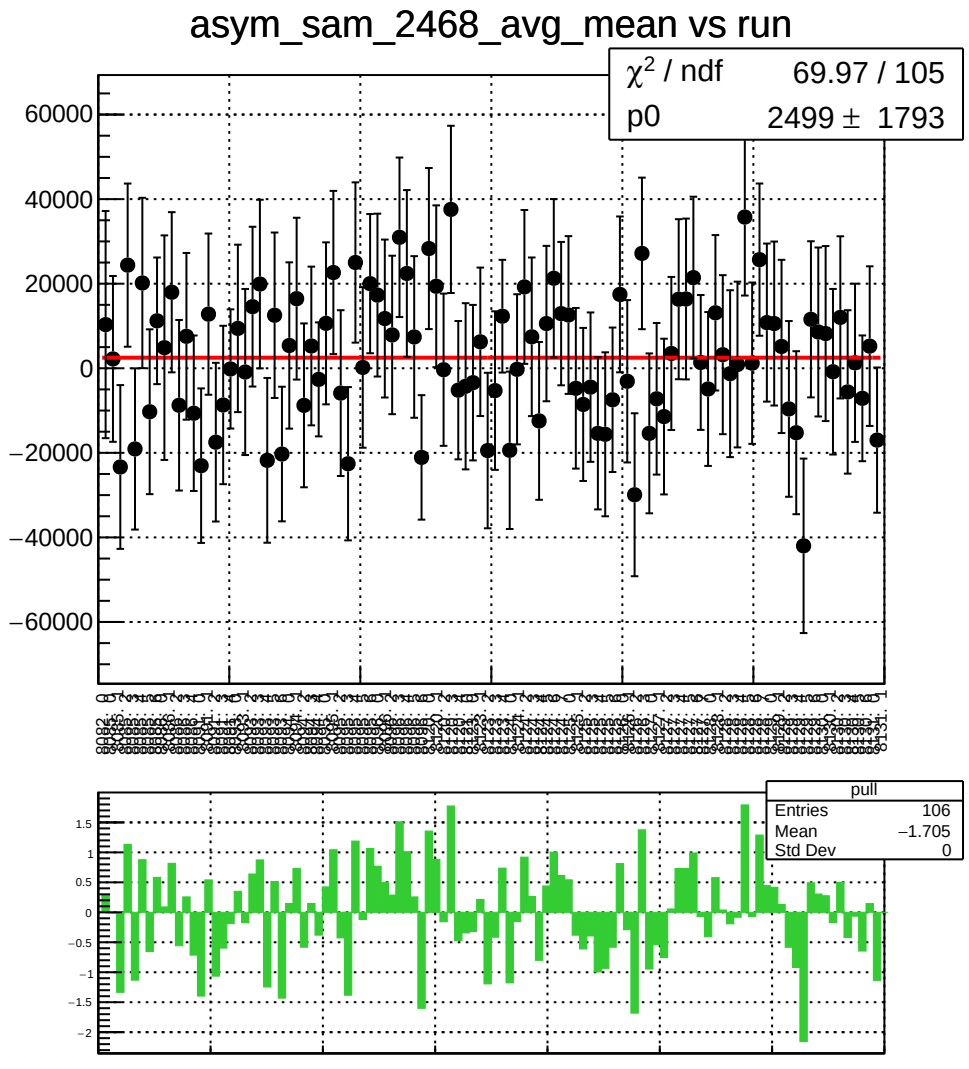

pull1D
Entries 105
Mean 0.01527
Std Dev 0.9779
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

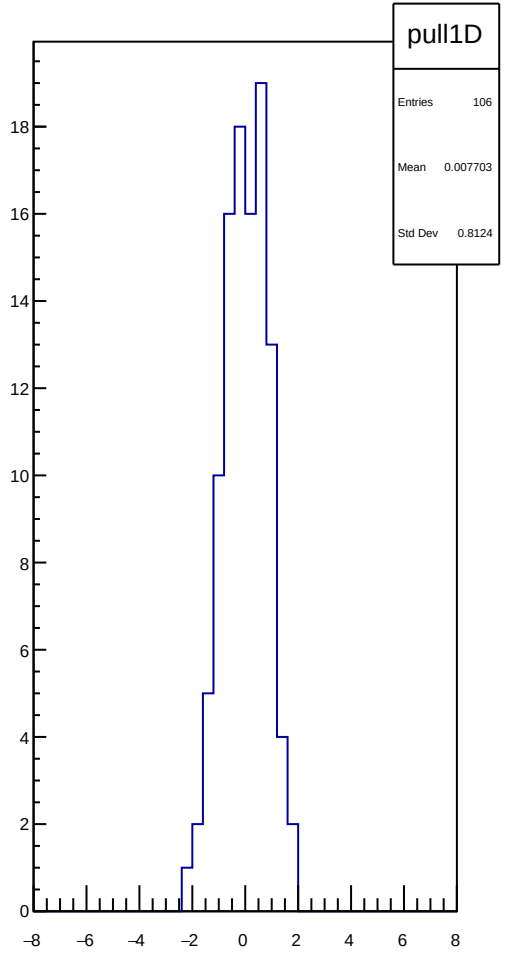

eigen_dit_asym_sam_2468_avg_rms vs run
χ² / ndf 3.802e+04 / 104
p0 139.5 ± 0.09921
300
250
200
150
100

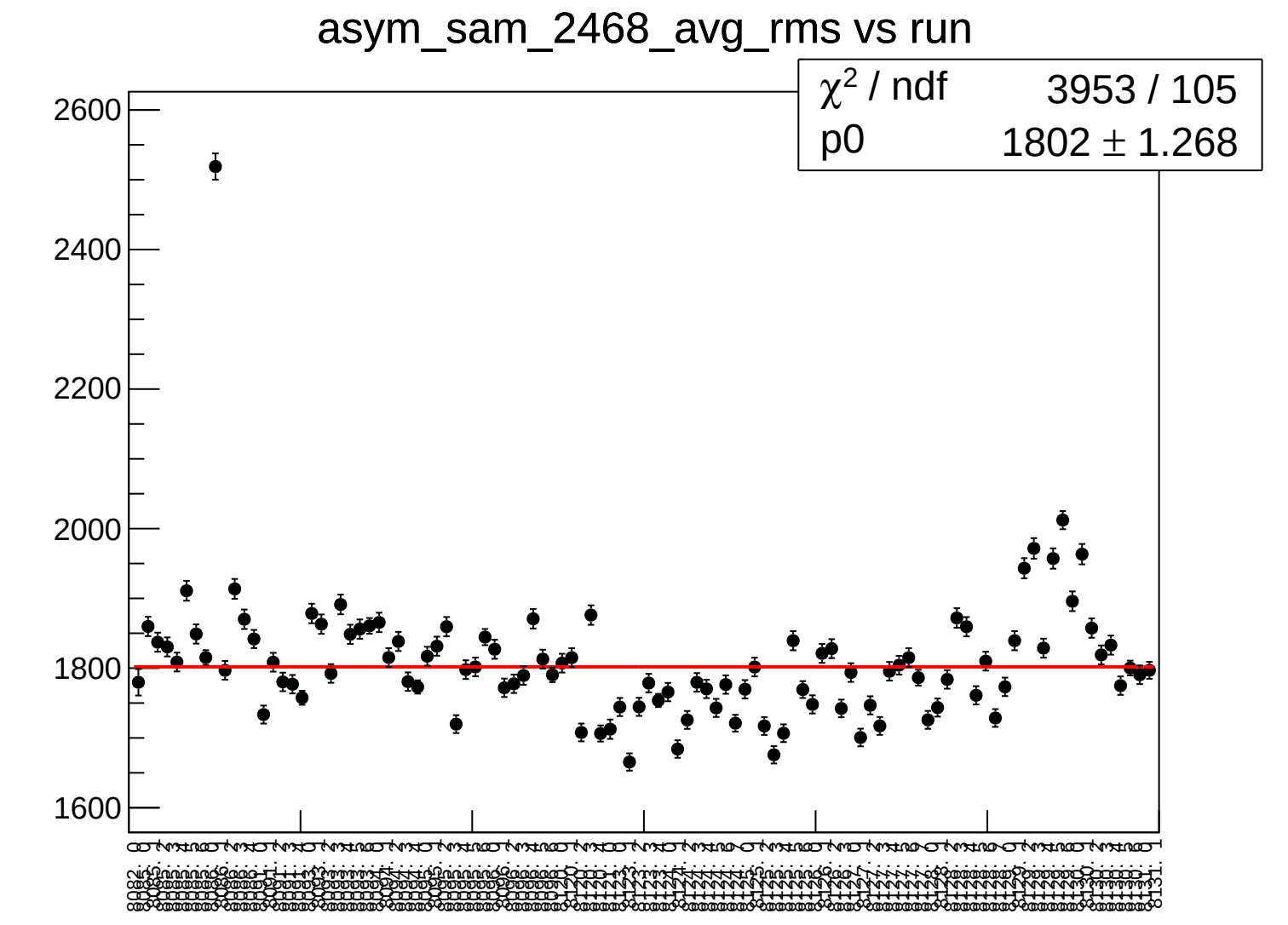

asym_sam_2468_avg_eigen_dit_correction_mean vs run
χ² / ndf 69.62 / 105
p0 −2587 ± 1812
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean 62.66
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

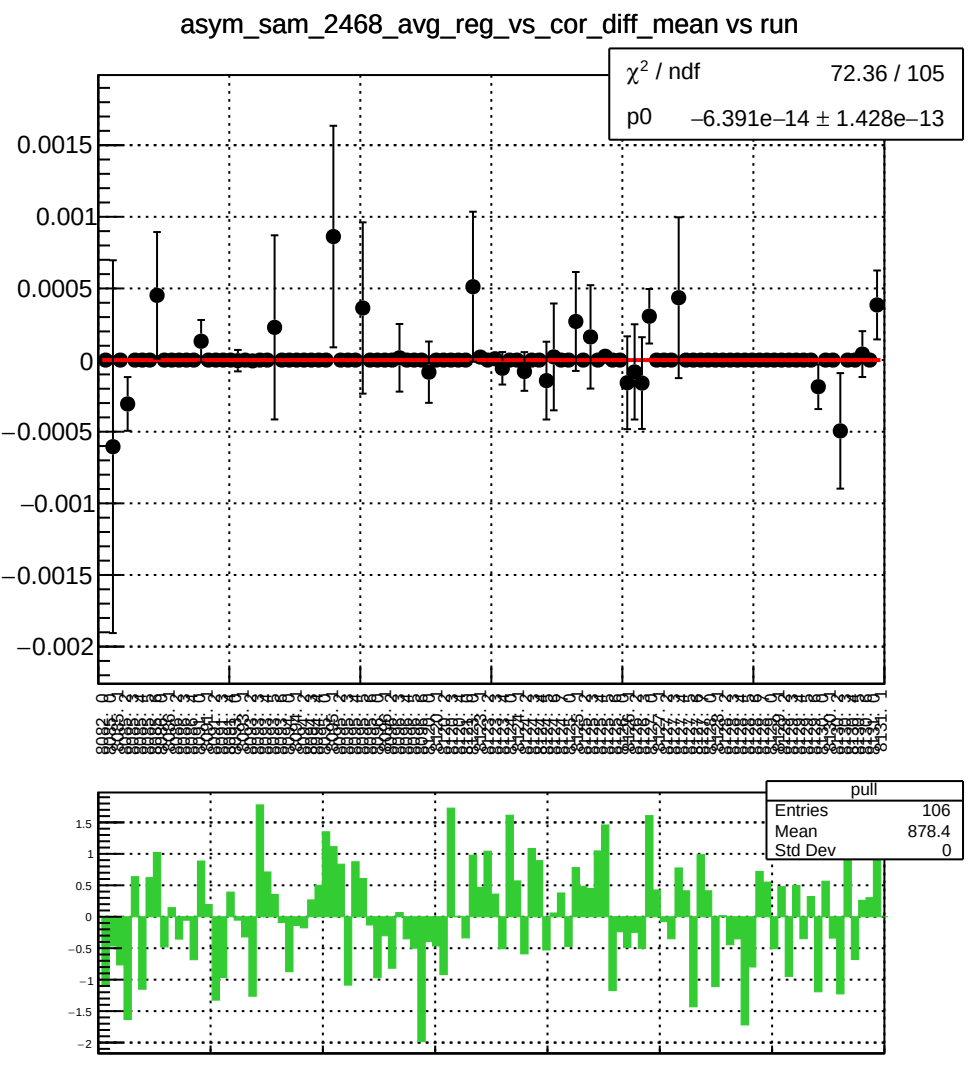

pull1D
Entries 106
Mean −0.007211
Std Dev 0.8104
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

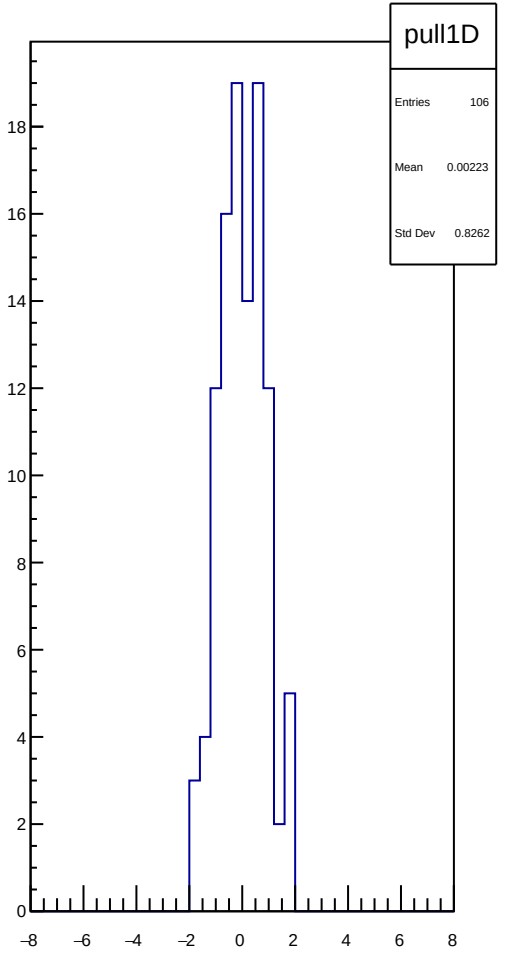

asym_sam_2468_avg_eigen_dit_correction_rms vs run
χ² / ndf 3258 / 105
p0 1821 ± 1.281
2500
2400
2300
2200
2100
2000
1900
1800
1700

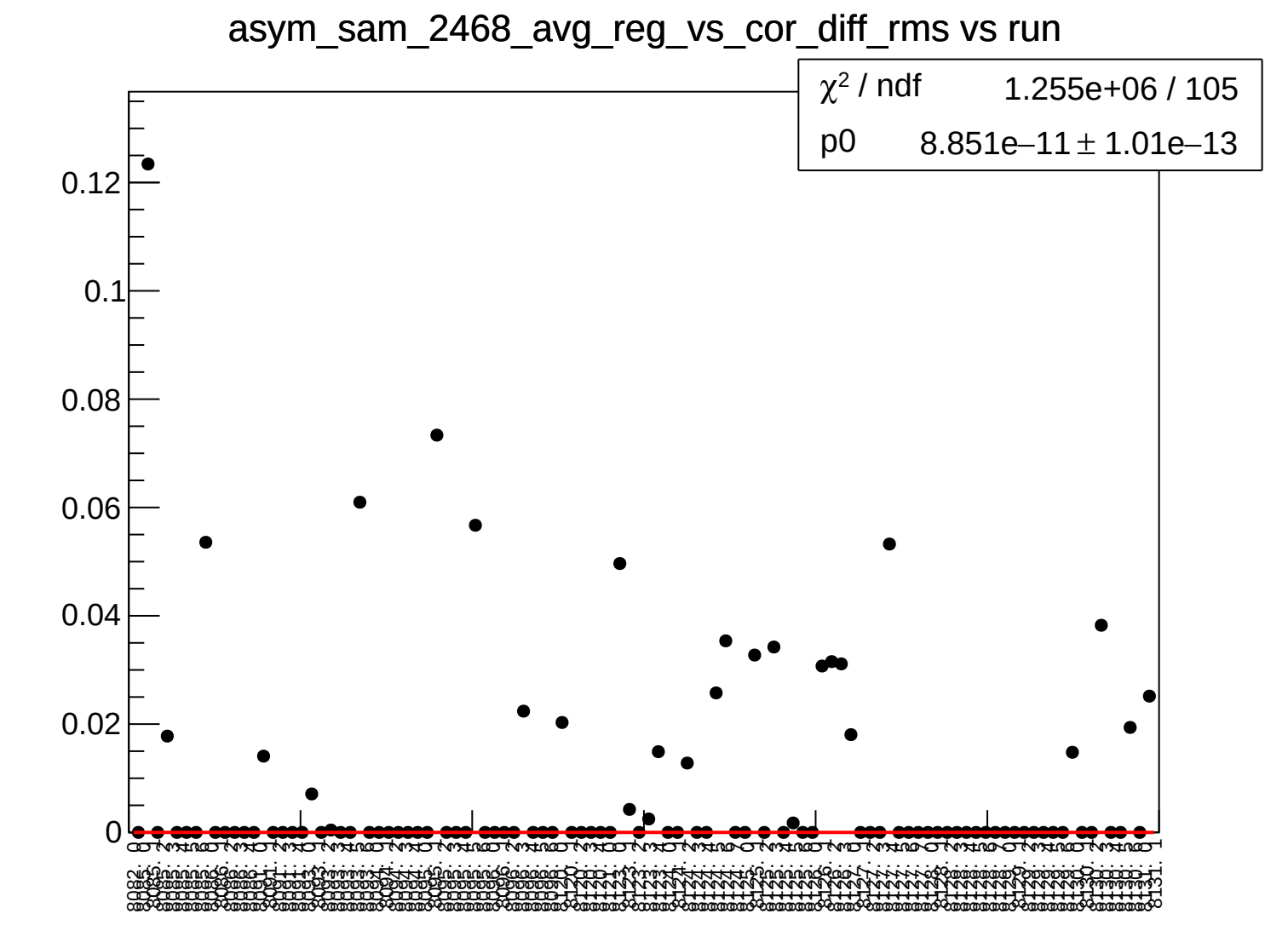

asym_sam_2468_avg_mean vs run
χ² / ndf 69.97 / 105
p0 2499 ± 1793
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 106
Mean −1.705
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

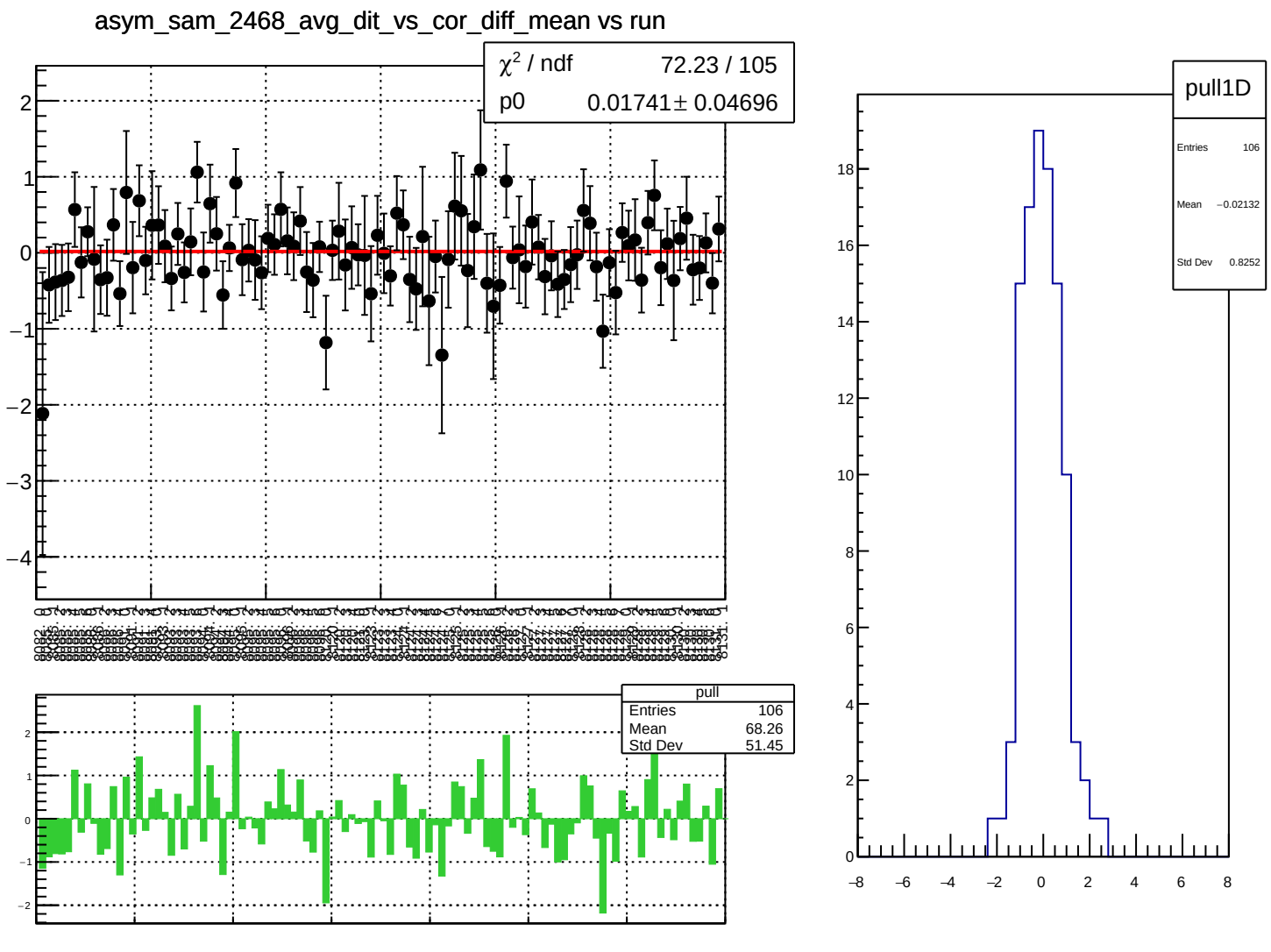

pull1D
Entries 106
Mean 0.007703
Std Dev 0.8124
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

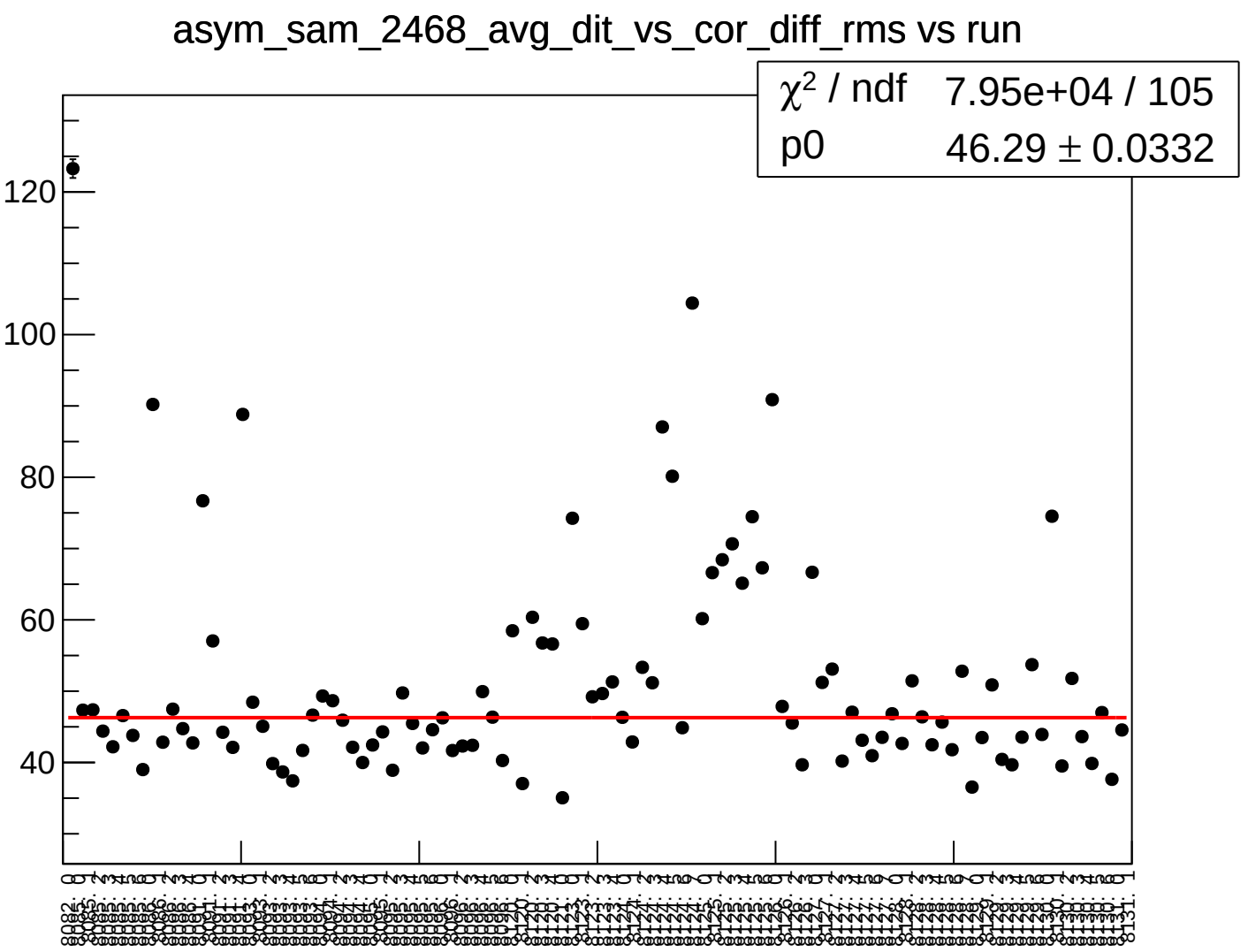

asym_sam_2468_avg_rms vs run
χ² / ndf 3953 / 105
p0 1802 ± 1.268
2600
2400
2200
2000
1800
1600

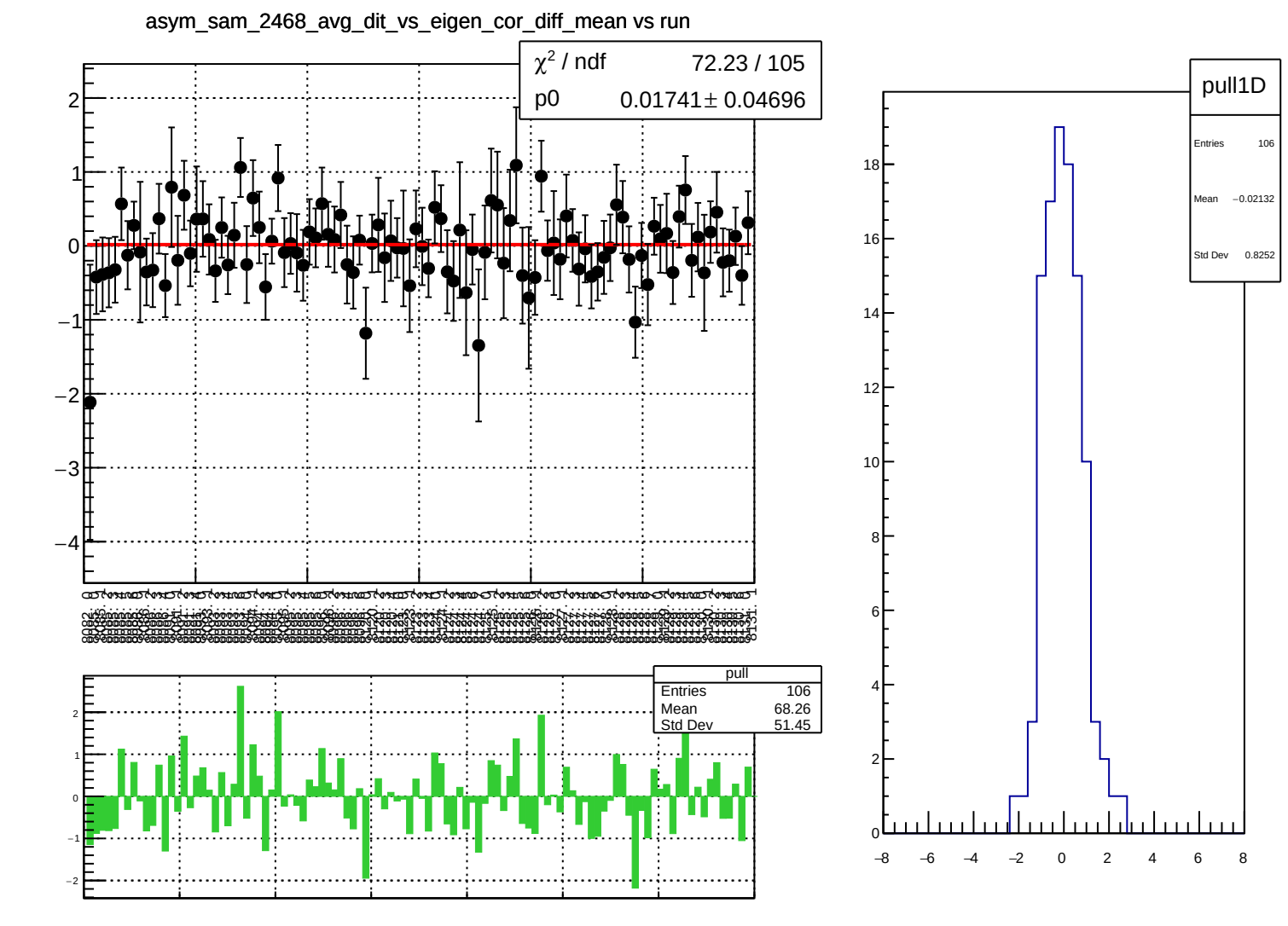

asym_sam_2468_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 72.36 / 105
p0 −6.391e−14 ± 1.428e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 106
Mean 878.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

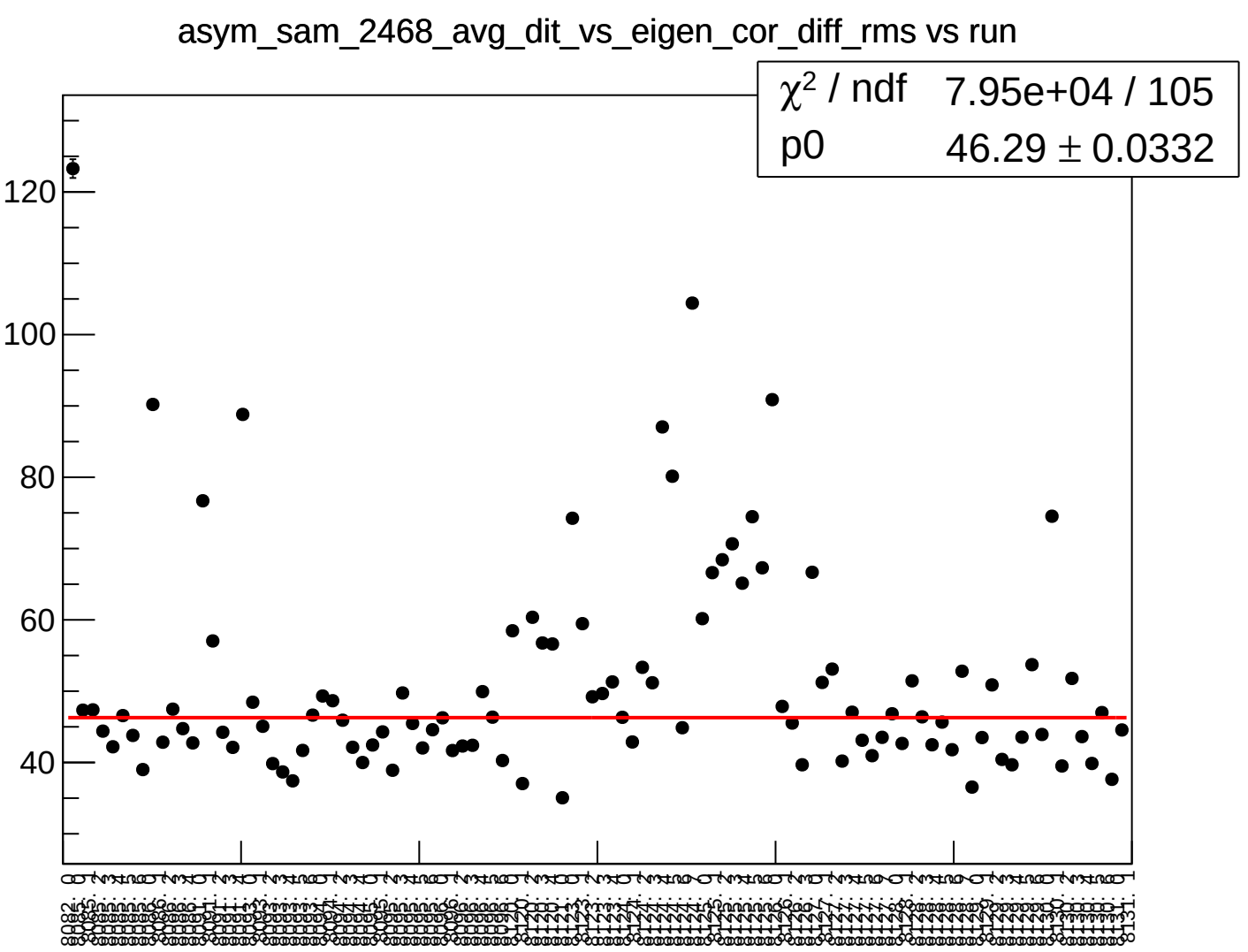

pull1D
Entries 106
Mean 0.00223
Std Dev 0.8262
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

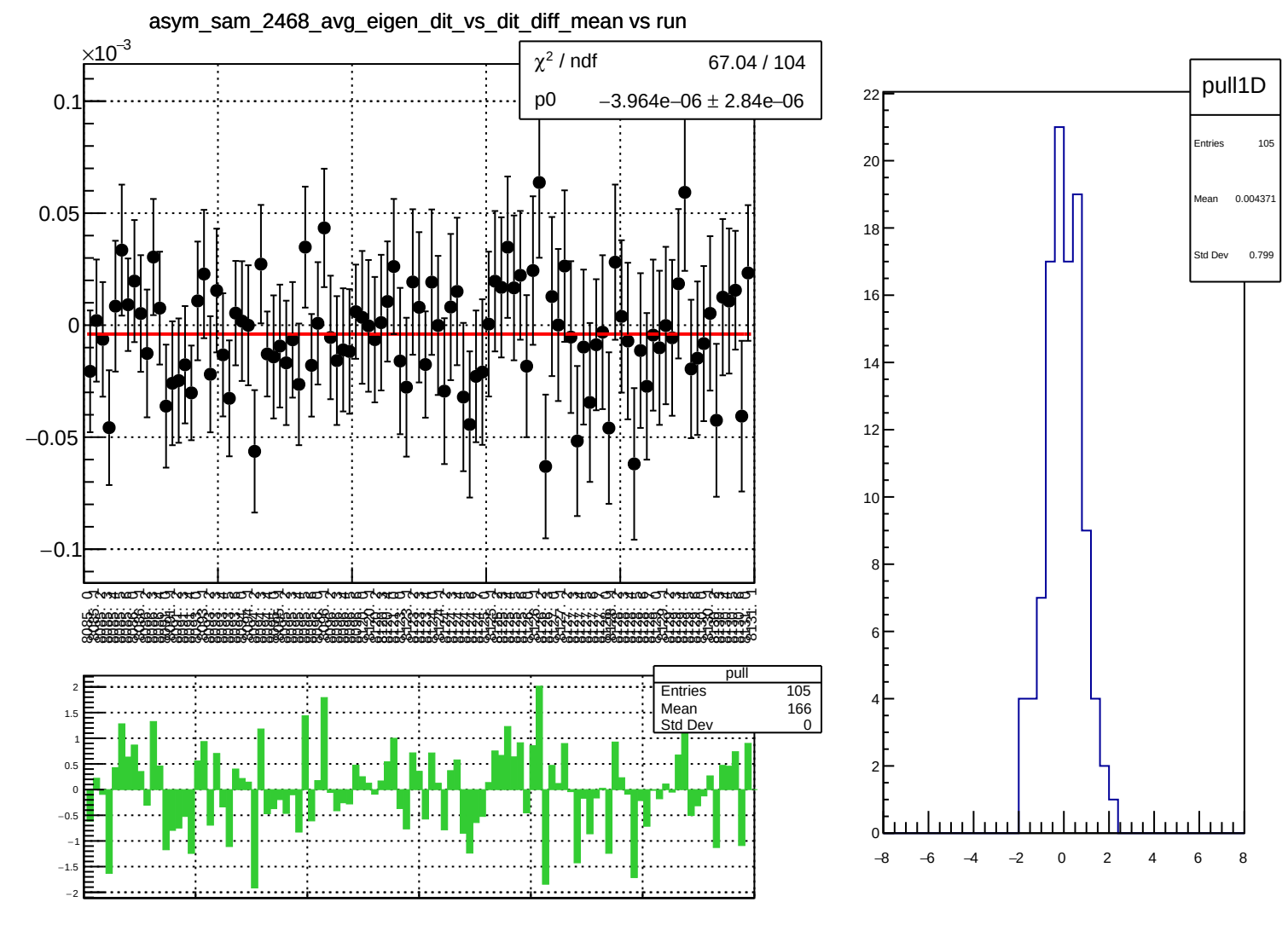

asym_sam_2468_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.255e+06 / 105
p0 8.851e−11 ± 1.01e−13
0.12
0.1
0.08
0.06
0.04
0.02
0

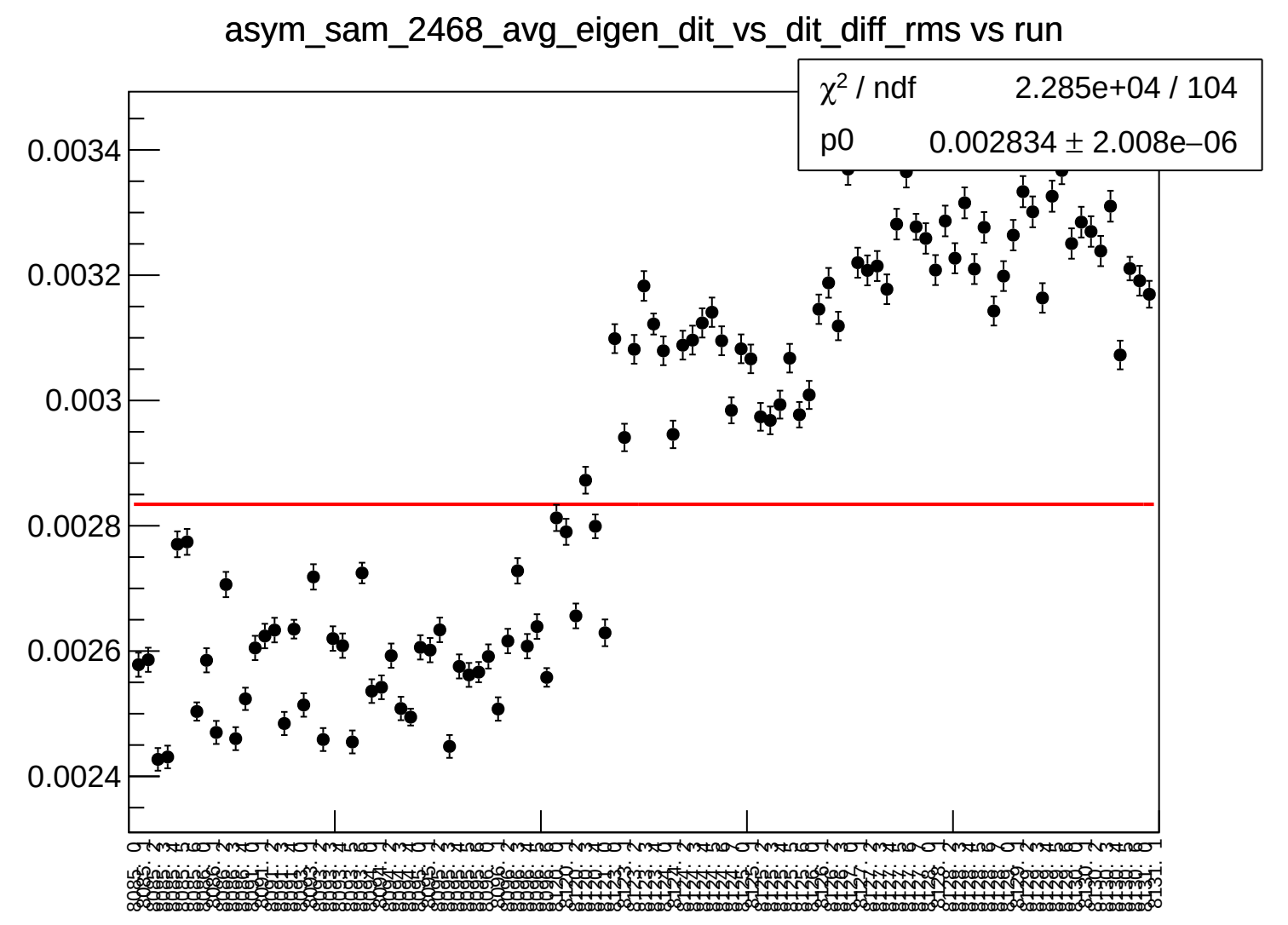

asym_sam_2468_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 72.23 / 105
p0 0.01741 ± 0.04696
pull
Entries 106
Mean 68.26
Std Dev 51.45
pull1D
Entries 106
Mean −0.02132
Std Dev 0.8252

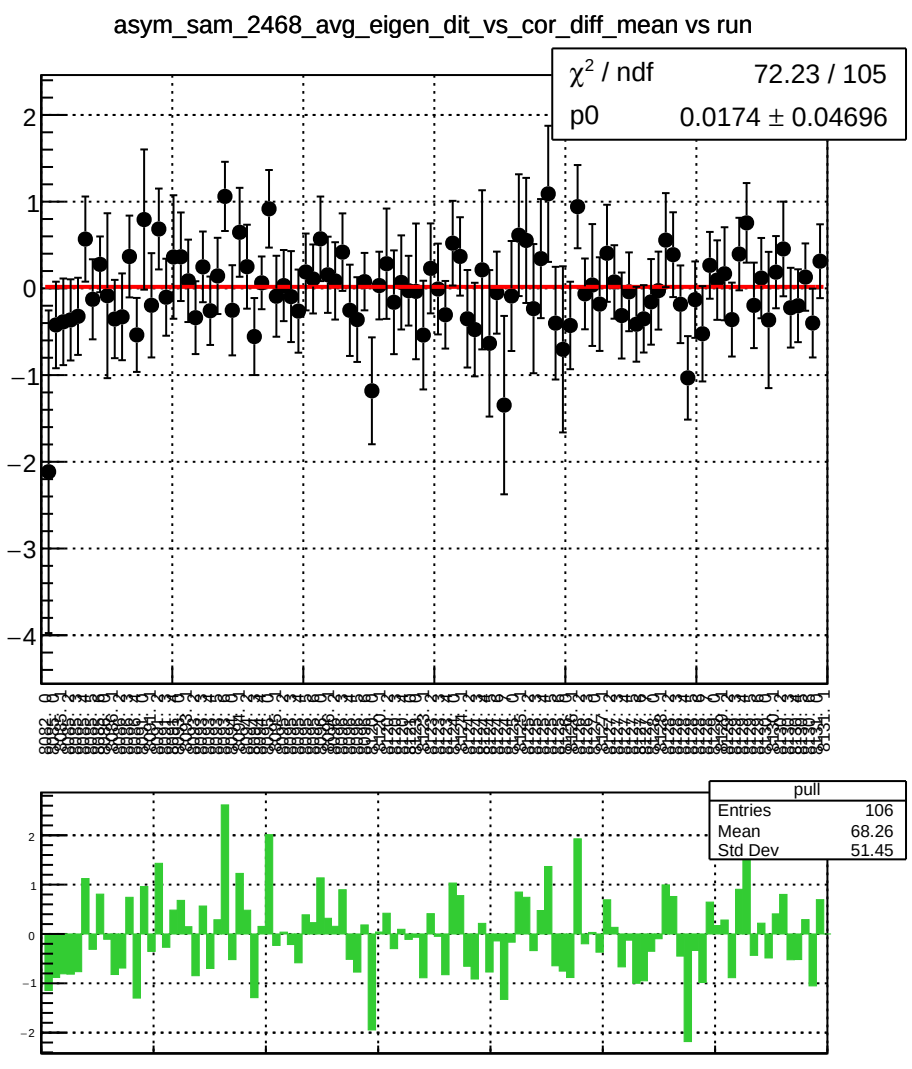

asym_sam_2468_avg_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 7.95e+04 / 105
p0 46.29 ± 0.0332
120
100
80
60
40

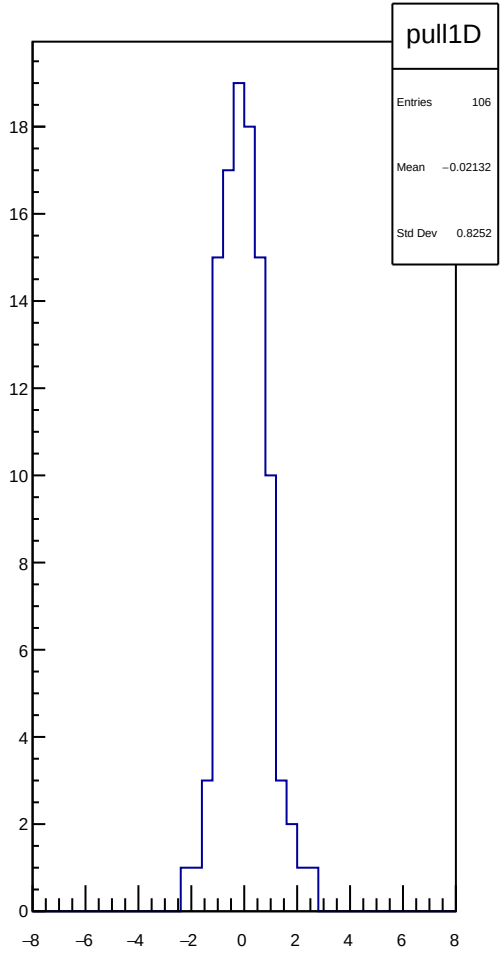

asym_sam_2468_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.23 / 105
p0 0.01741 ± 0.04696
pull
Entries 106
Mean 68.26
Std Dev 51.45
pull1D
Entries 106
Mean −0.02132
Std Dev 0.8252

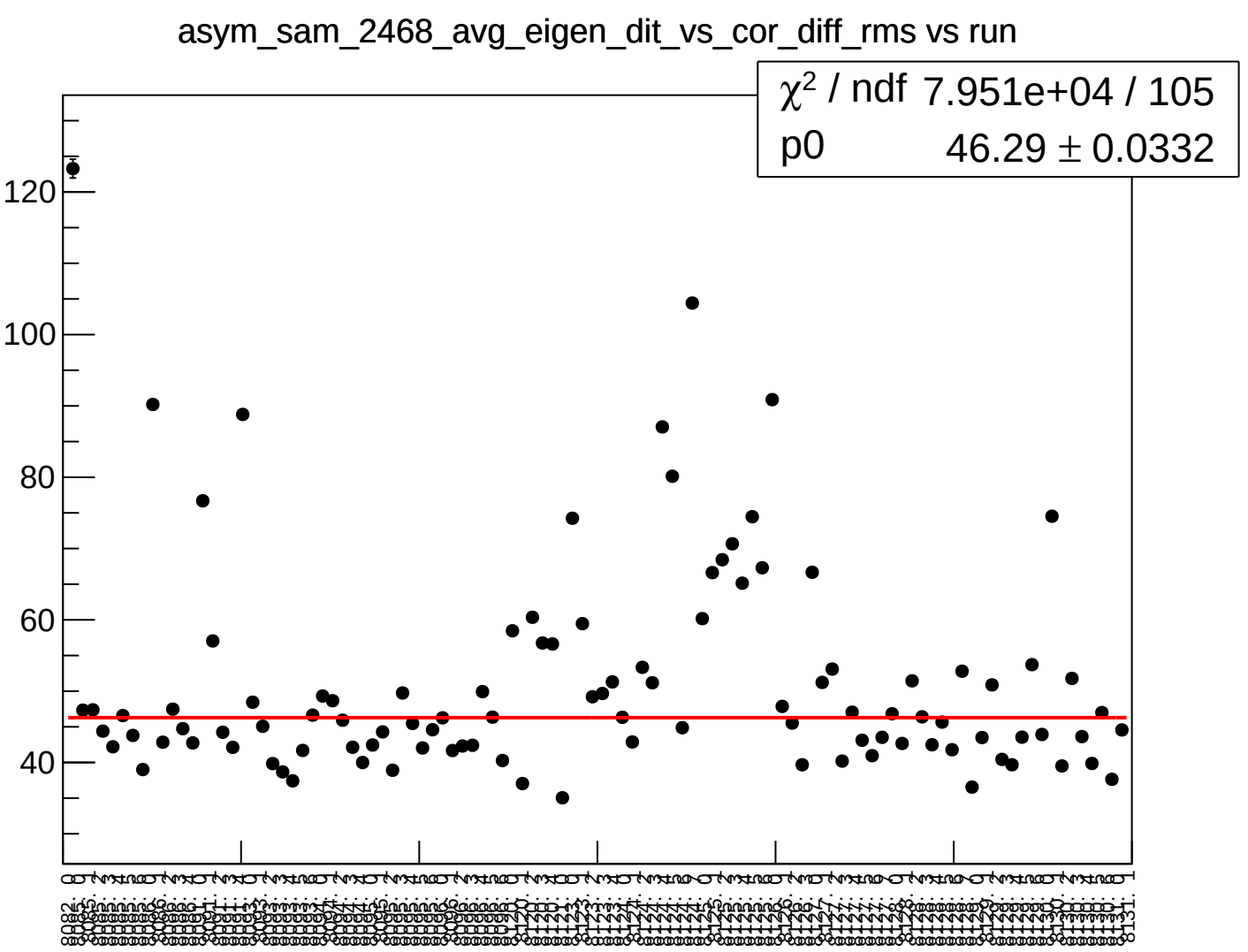

asym_sam_2468_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.95e+04 / 105
p0 46.29 ± 0.0332
120
100
80
60
40

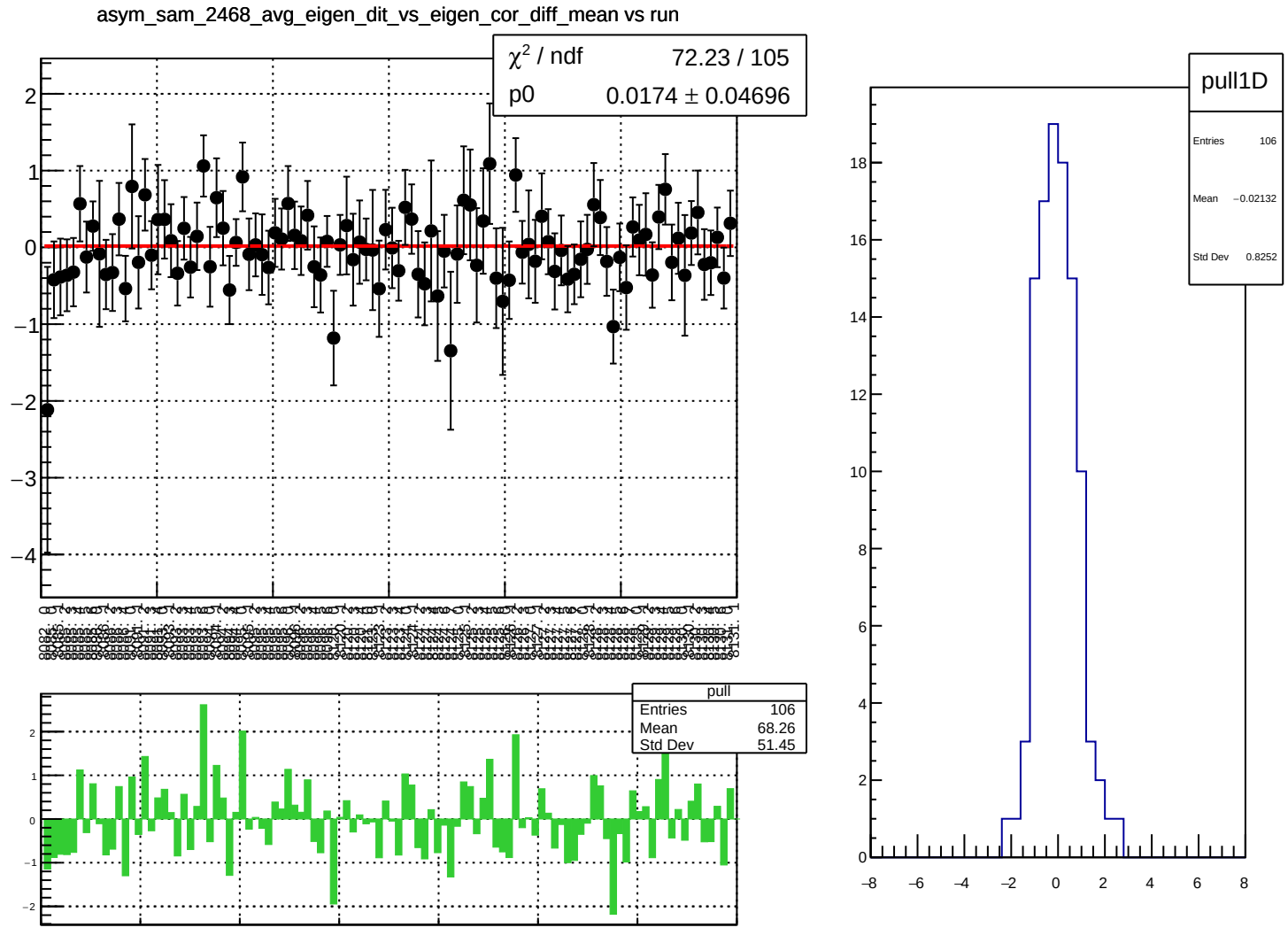

asym_sam_2468_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 67.04 / 104
p0 −3.964e−06 ± 2.84e−06
pull
Entries 105
Mean 166
Std Dev 0
pull1D
Entries 105
Mean 0.004371
Std Dev 0.799

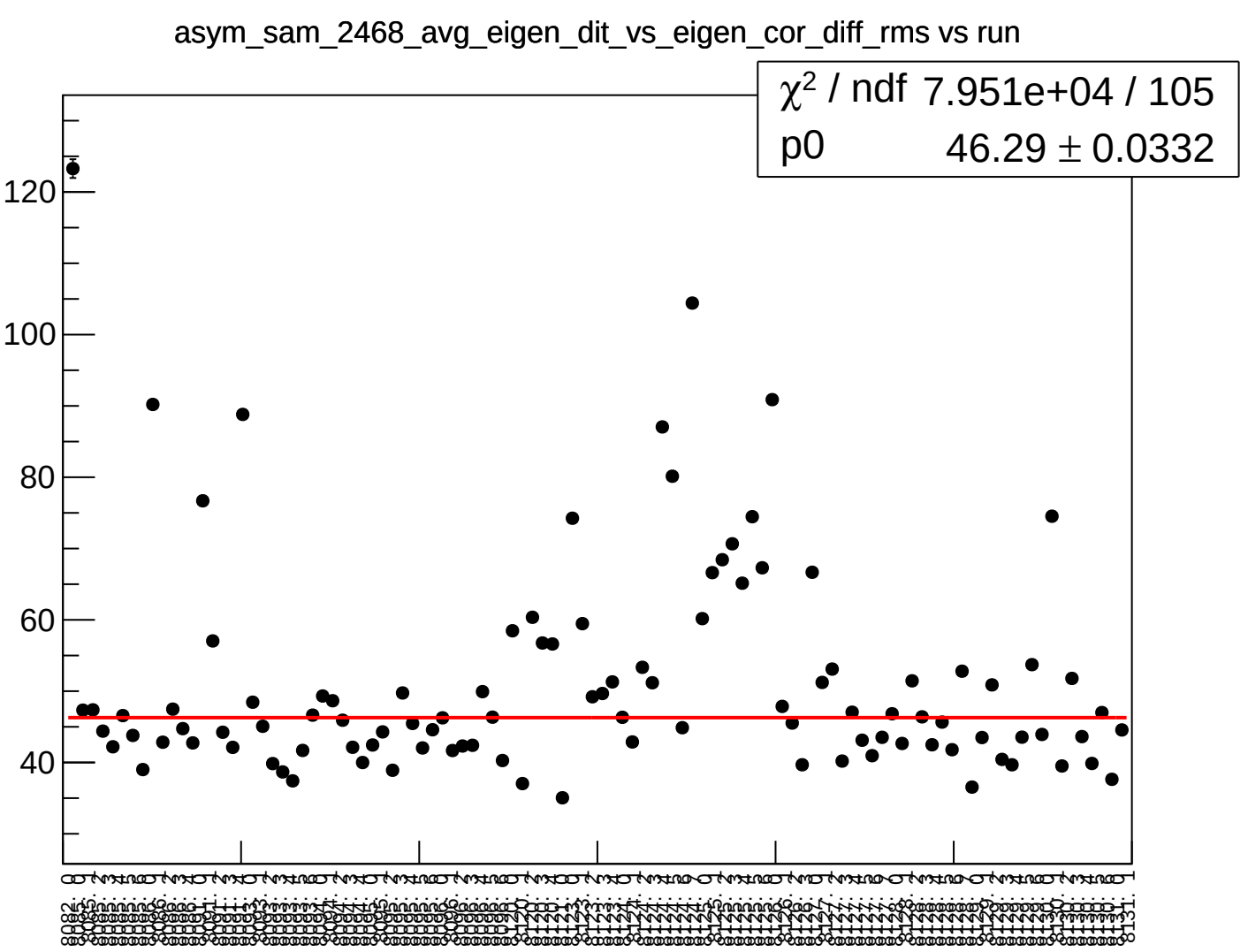

asym_sam_2468_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.285e+04 / 104
p0 0.002834 ± 2.008e−06
0.0034
0.0032
0.003
0.0028
0.0026
0.0024

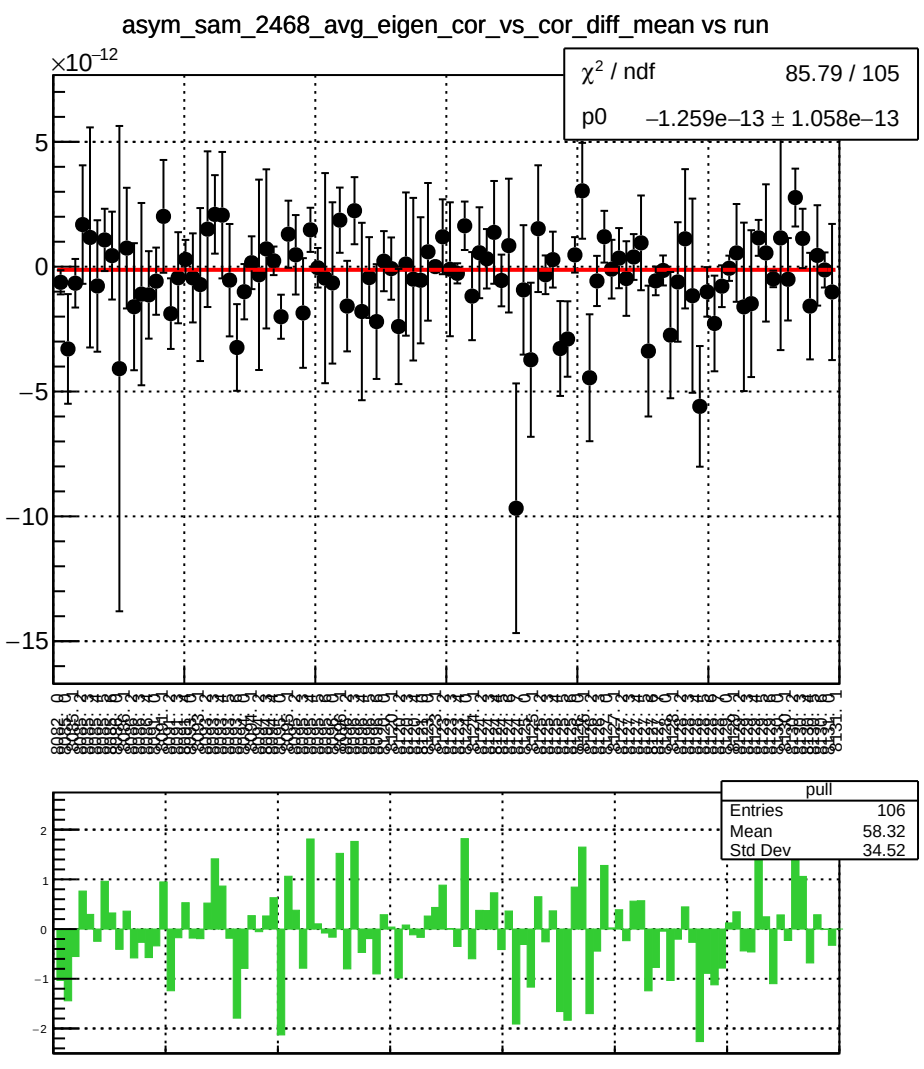

asym_sam_2468_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 72.23 / 105
p0 0.0174 ± 0.04696
pull
Entries 106
Mean 68.26
Std Dev 51.45

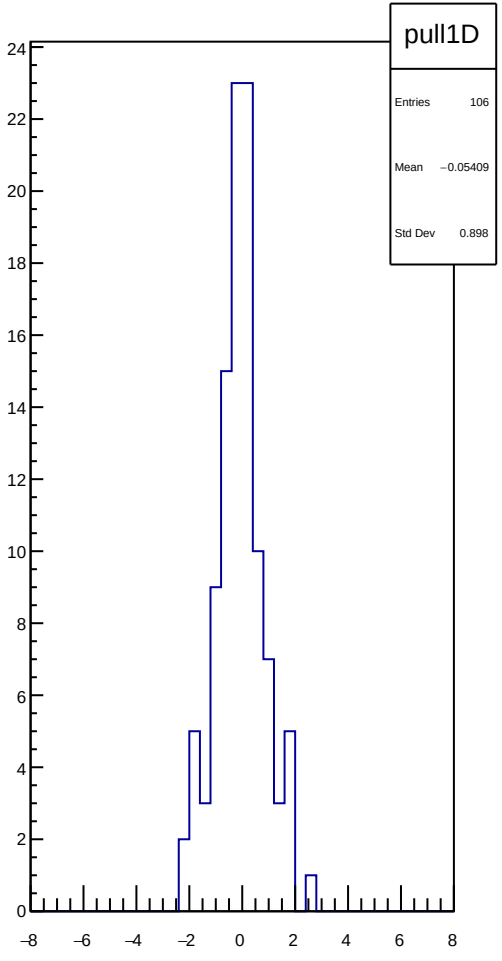

pull1D
Entries 106
Mean −0.02132
Std Dev 0.8252

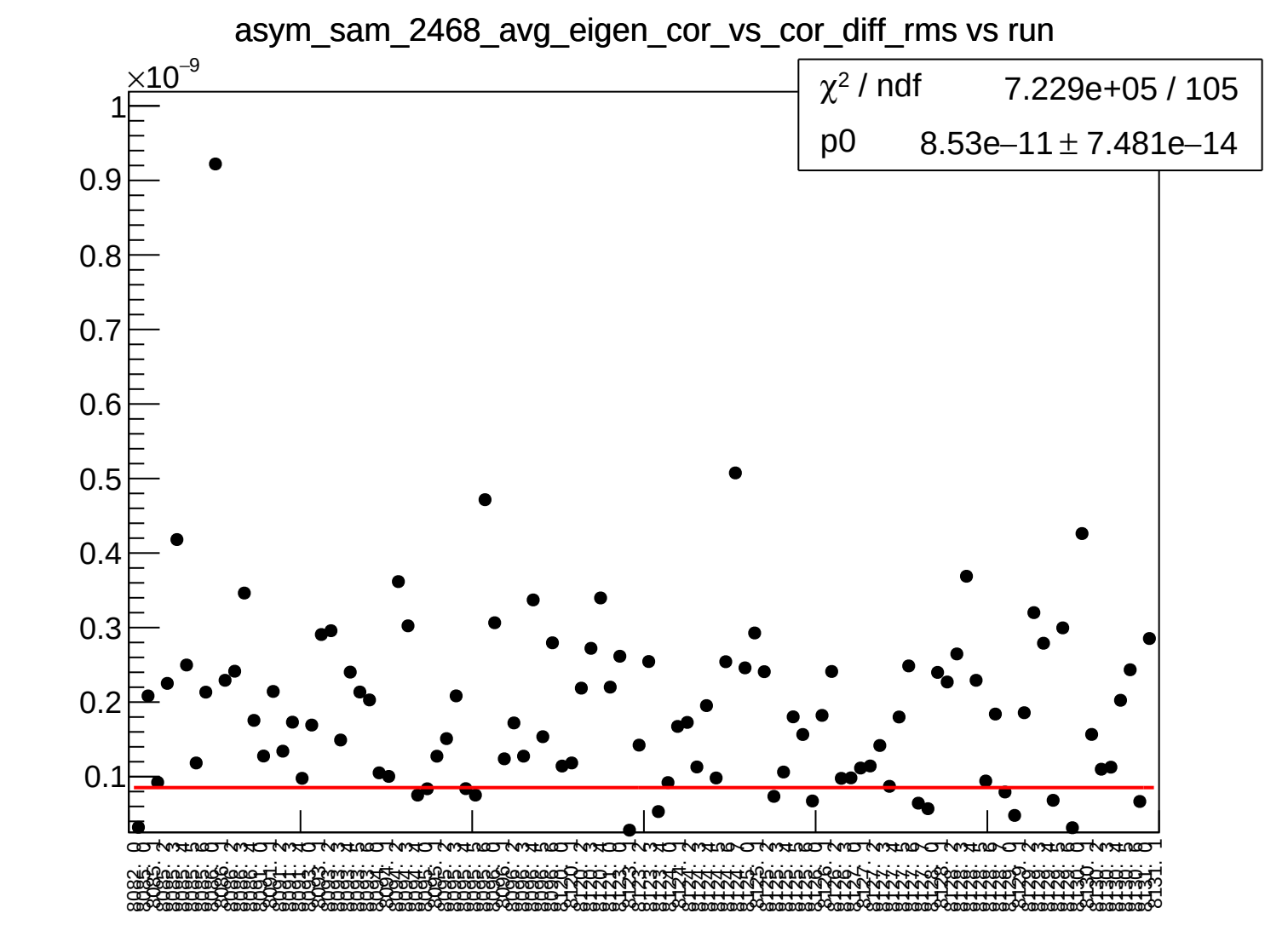

asym_sam_2468_avg_eigen_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 7.951e+04 / 105
p0 46.29 ± 0.0332
120
100
80
60
40

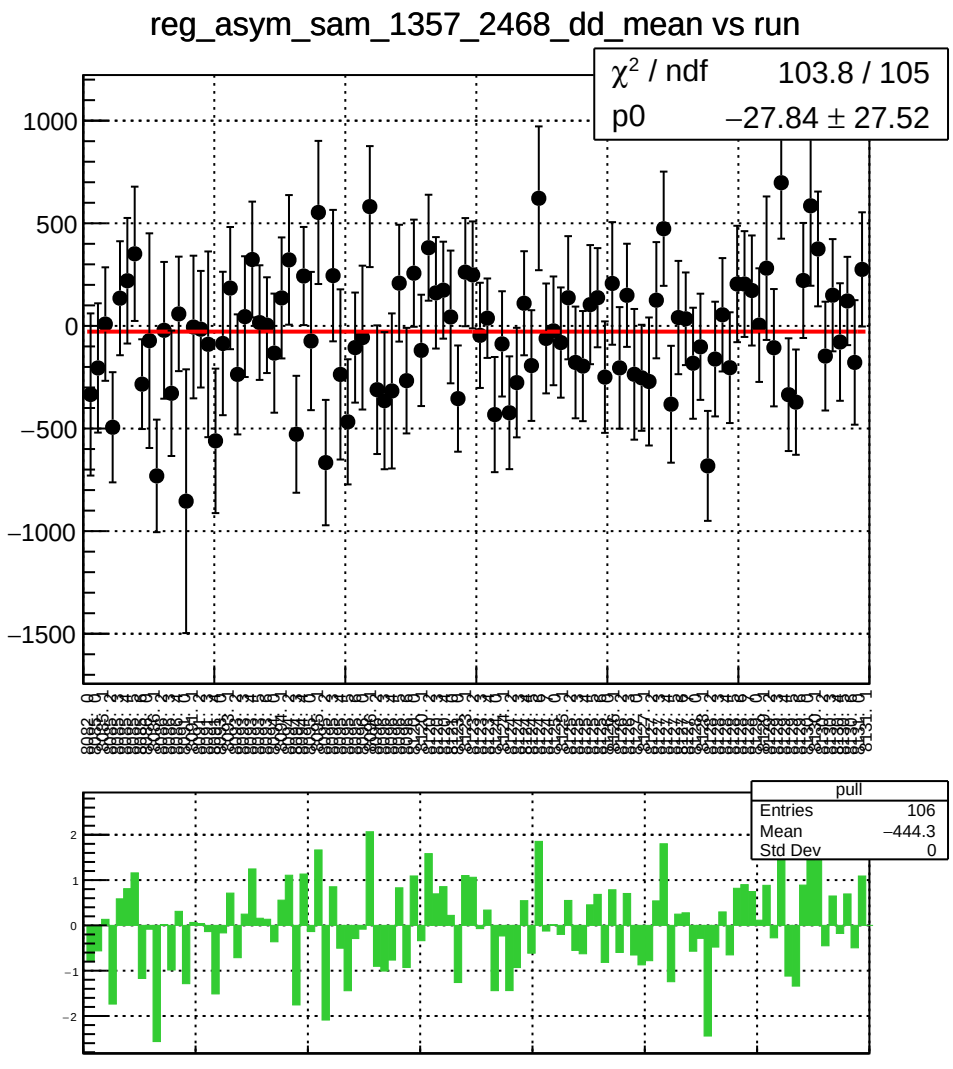

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.23 / 105
p0 0.0174 ± 0.04696
pull
Entries 106
Mean 68.26
Std Dev 51.45
pull1D
Entries 106
Mean −0.02132
Std Dev 0.8252

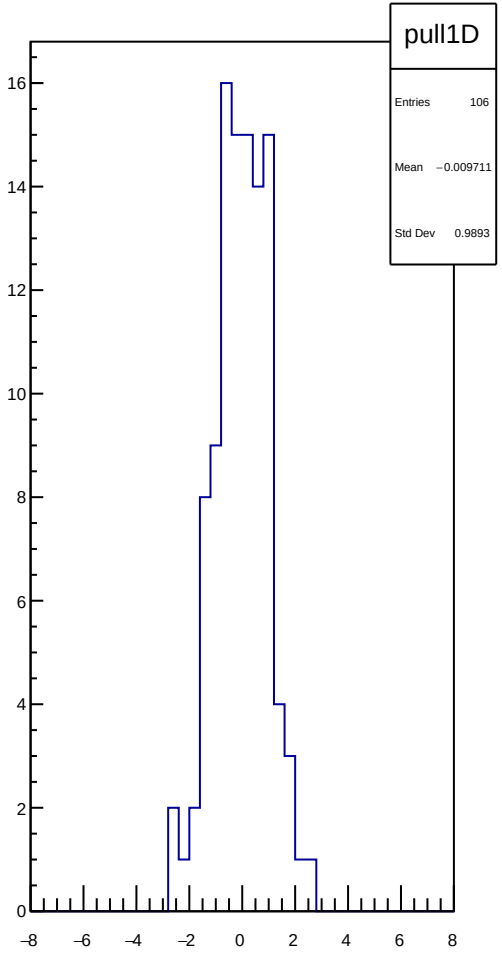

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.951e+04 / 105
p0 46.29 ± 0.0332
120
100
80
60
40

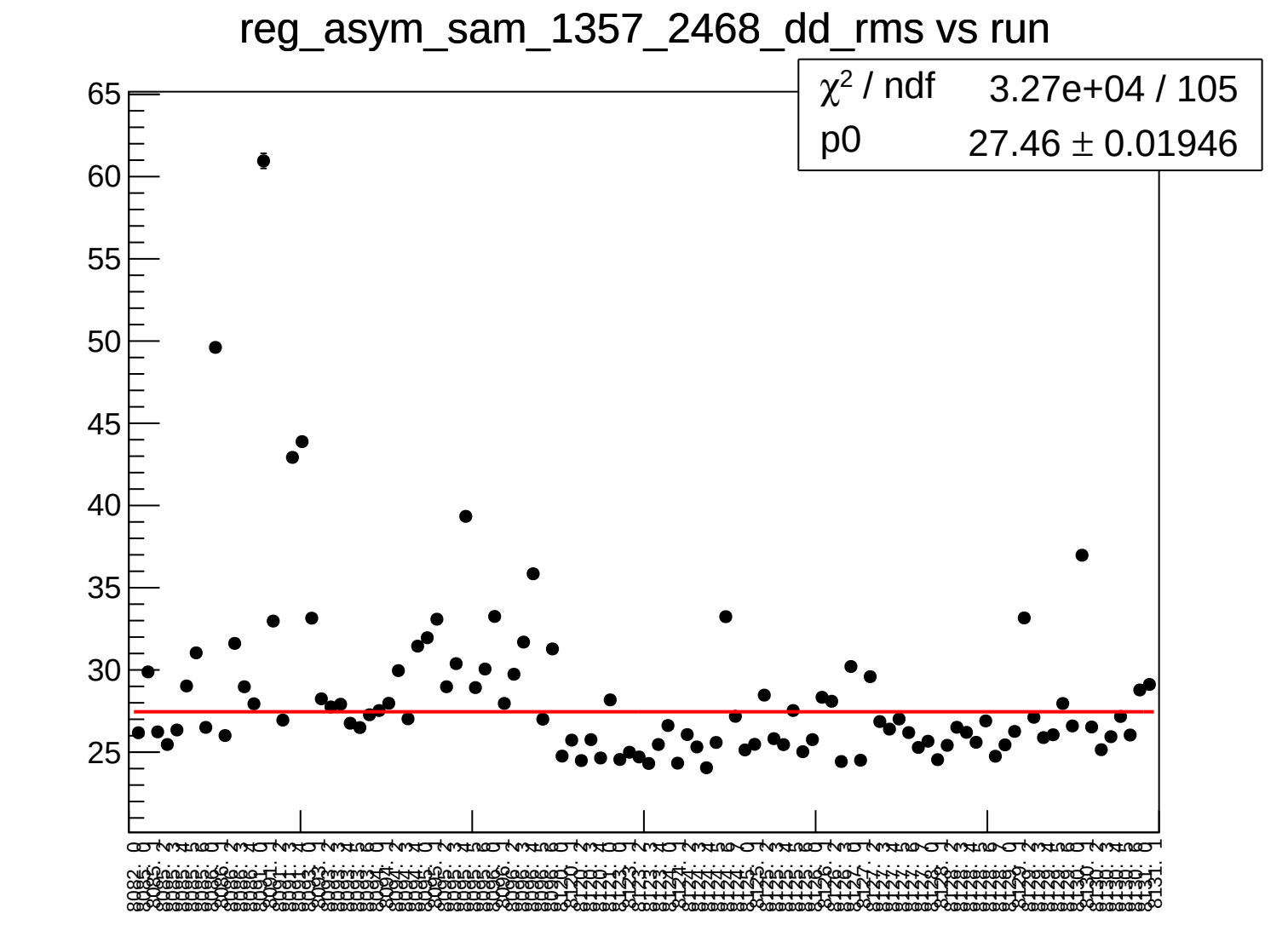

asym_sam_2468_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 85.79 / 105
p0 −1.259e−13 ± 1.058e−13
pull
Entries 106
Mean 58.32
Std Dev 34.52

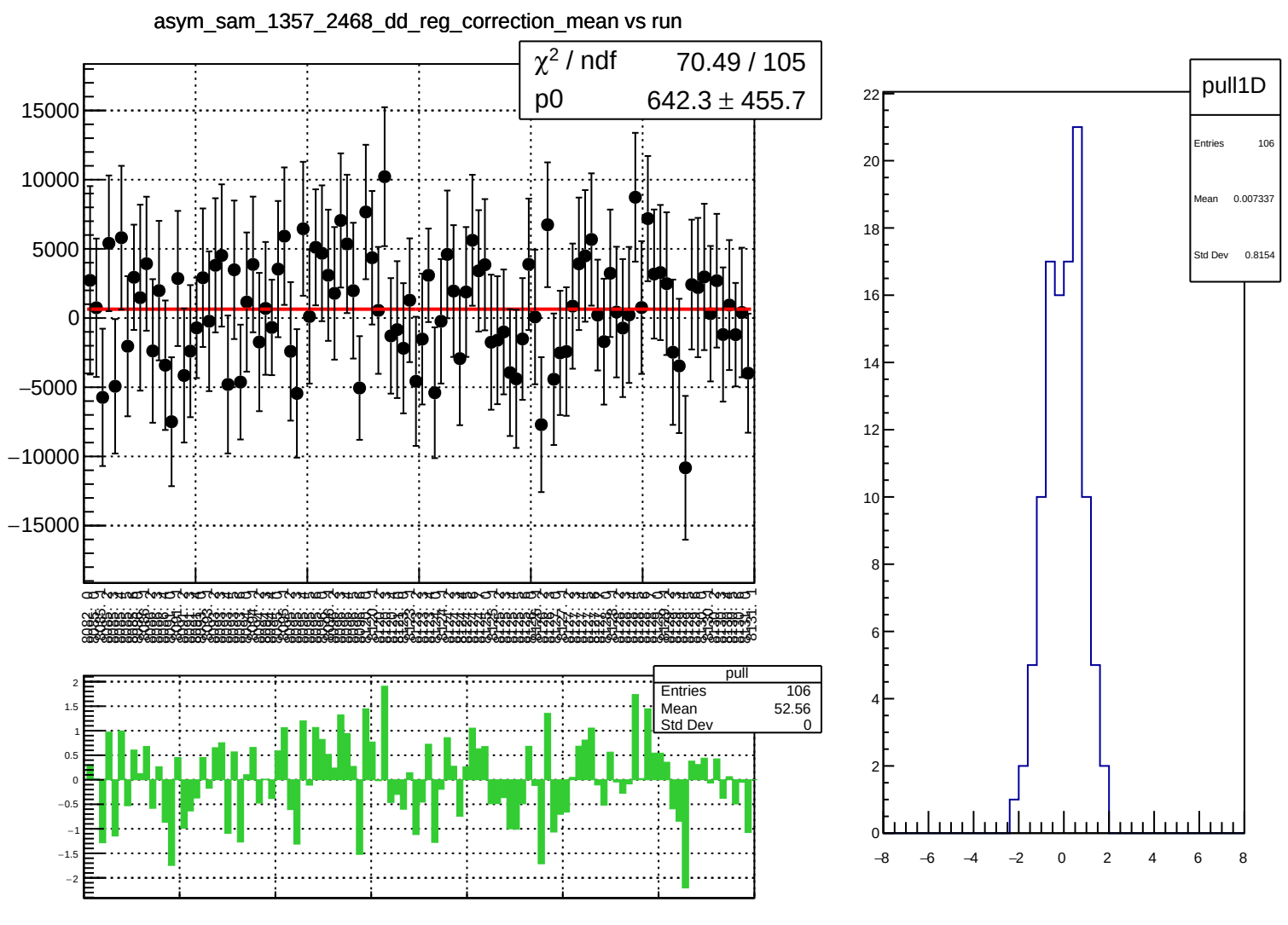

pull1D
Entries 106
Mean −0.05409
Std Dev 0.898

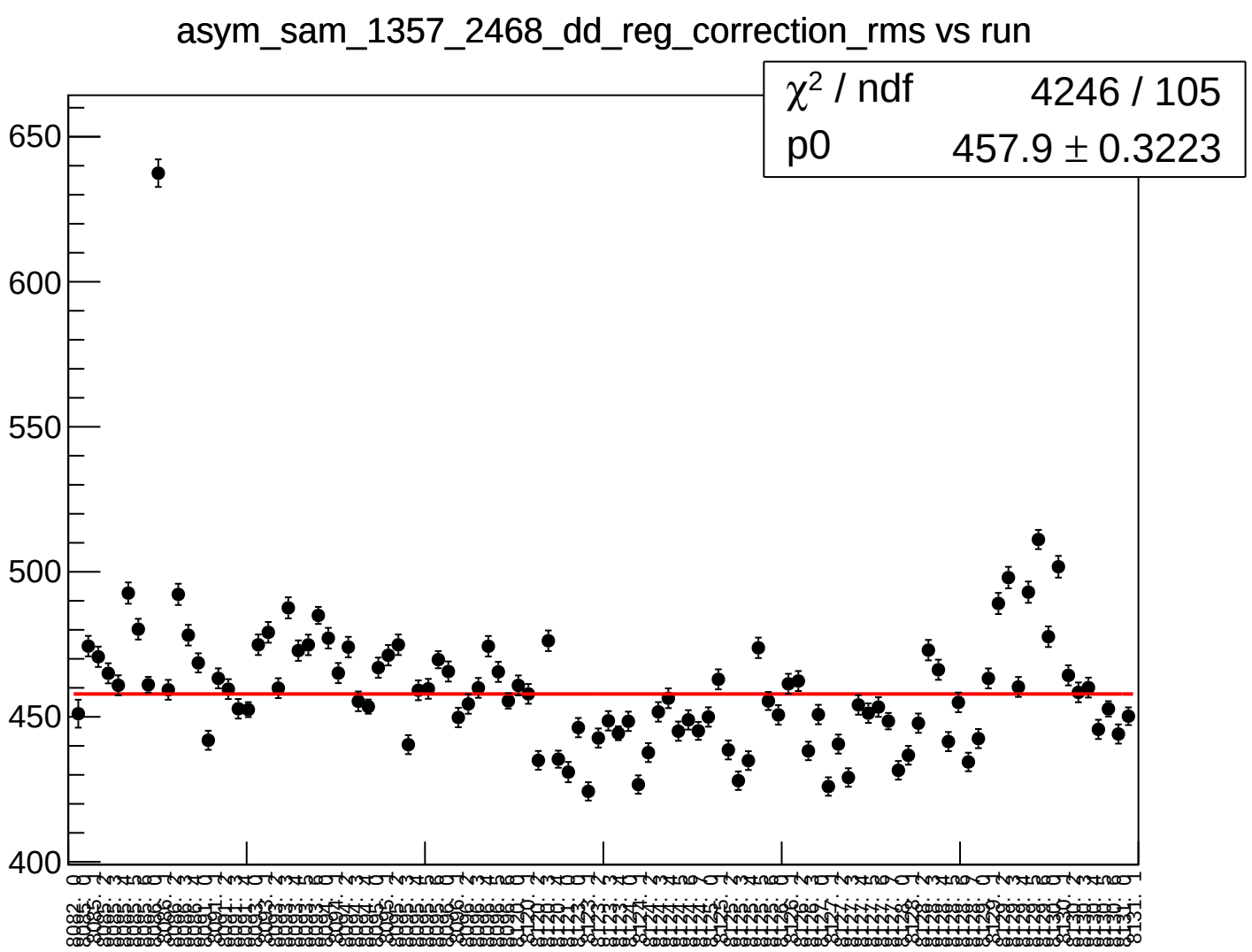

asym_sam_2468_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.229e+05 / 105
p0 8.53e−11 ± 7.481e−14
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

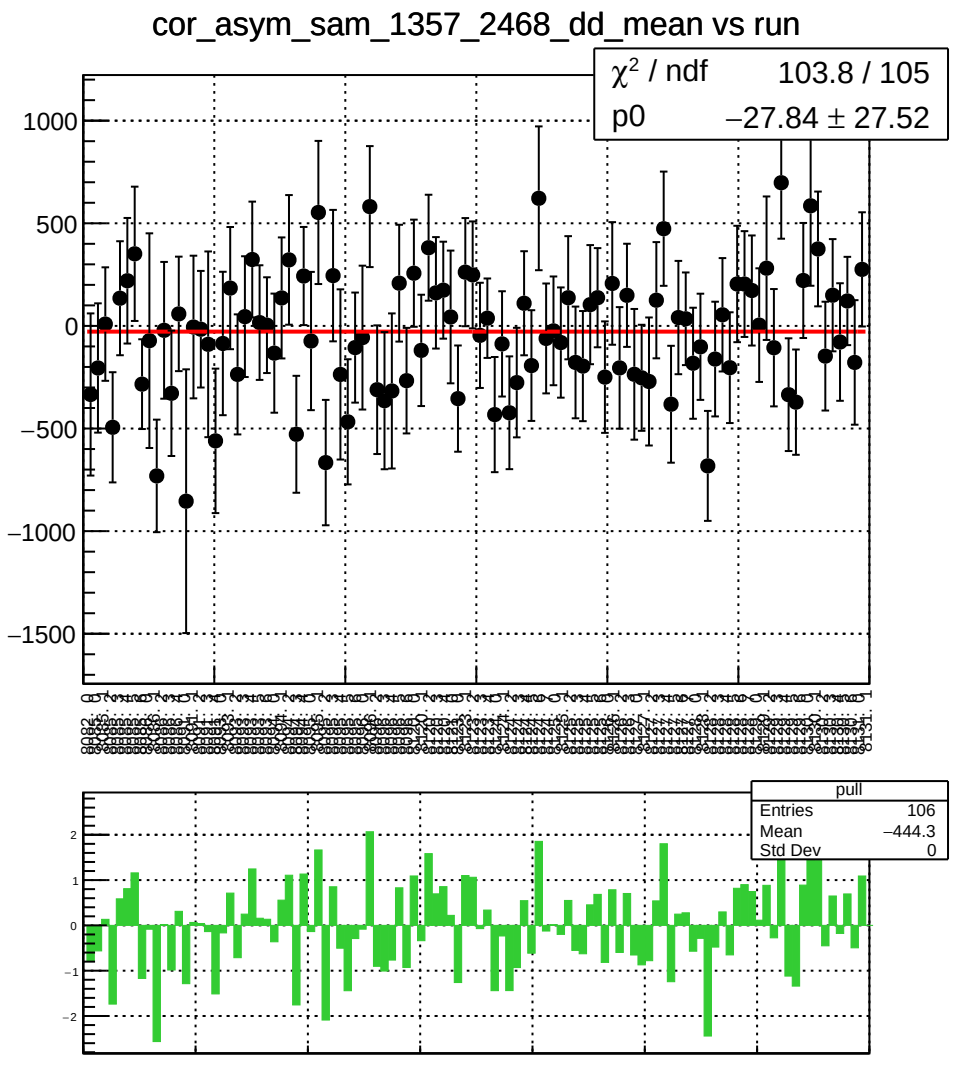

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 103.8 / 105
p0 −27.84 ± 27.52
1000
500
0
−500
−1000
−1500
pull
Entries 106
Mean −444.3
Std Dev 0
2
1
0
−1
−2

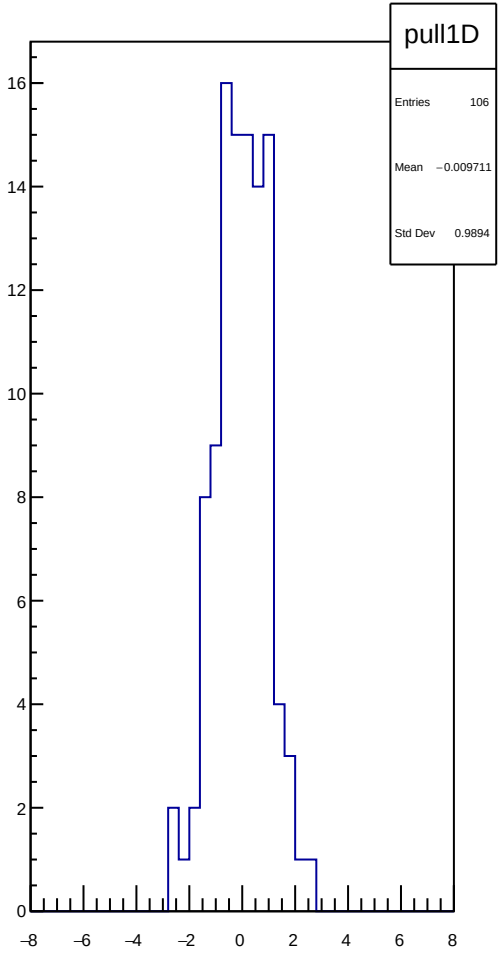

pull1D
Entries 106
Mean −0.009711
Std Dev 0.9893
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

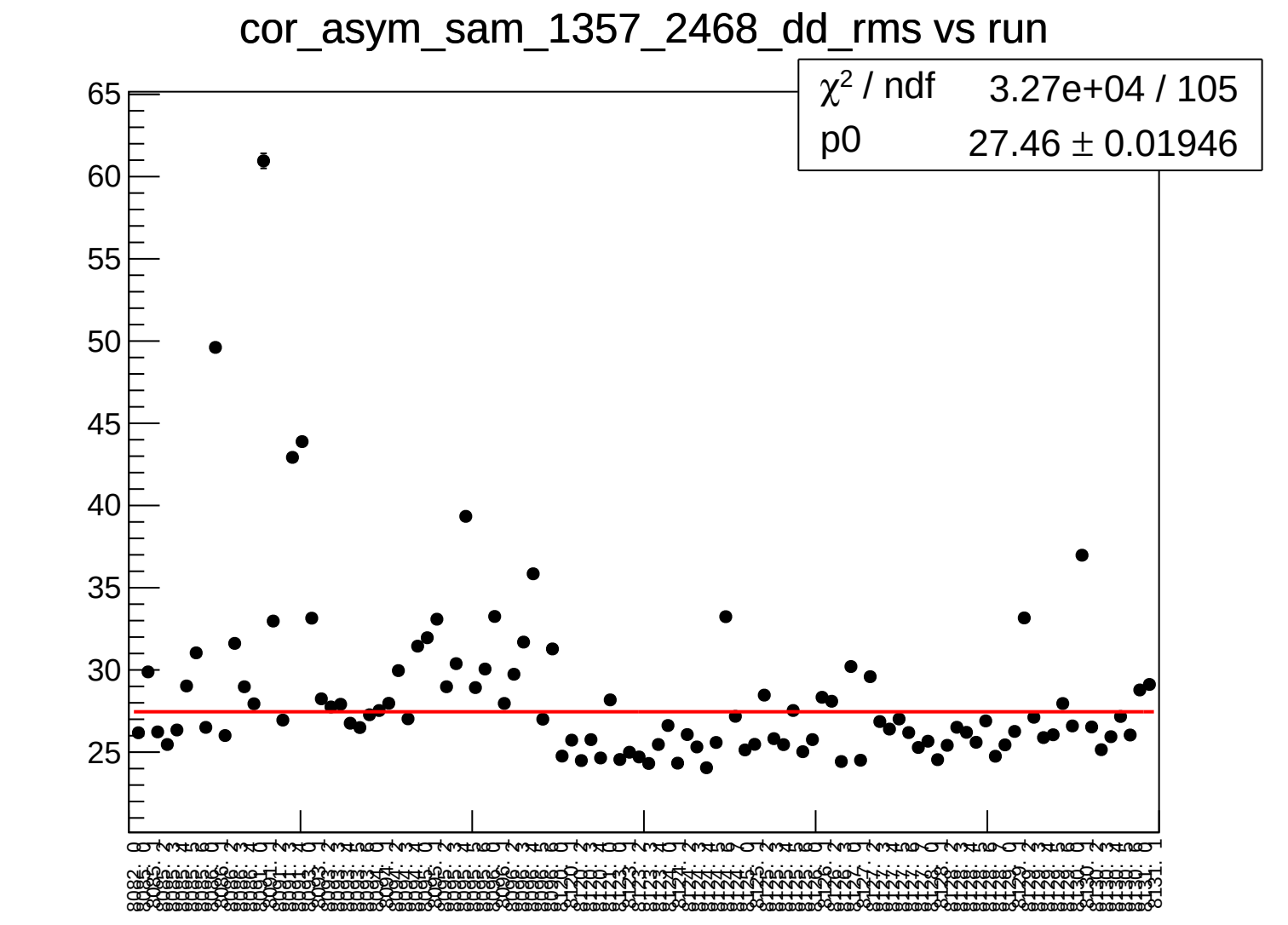

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 3.27e+04 / 105
p0 27.46 ± 0.01946
65
60
55
50
45
40
35
30
25

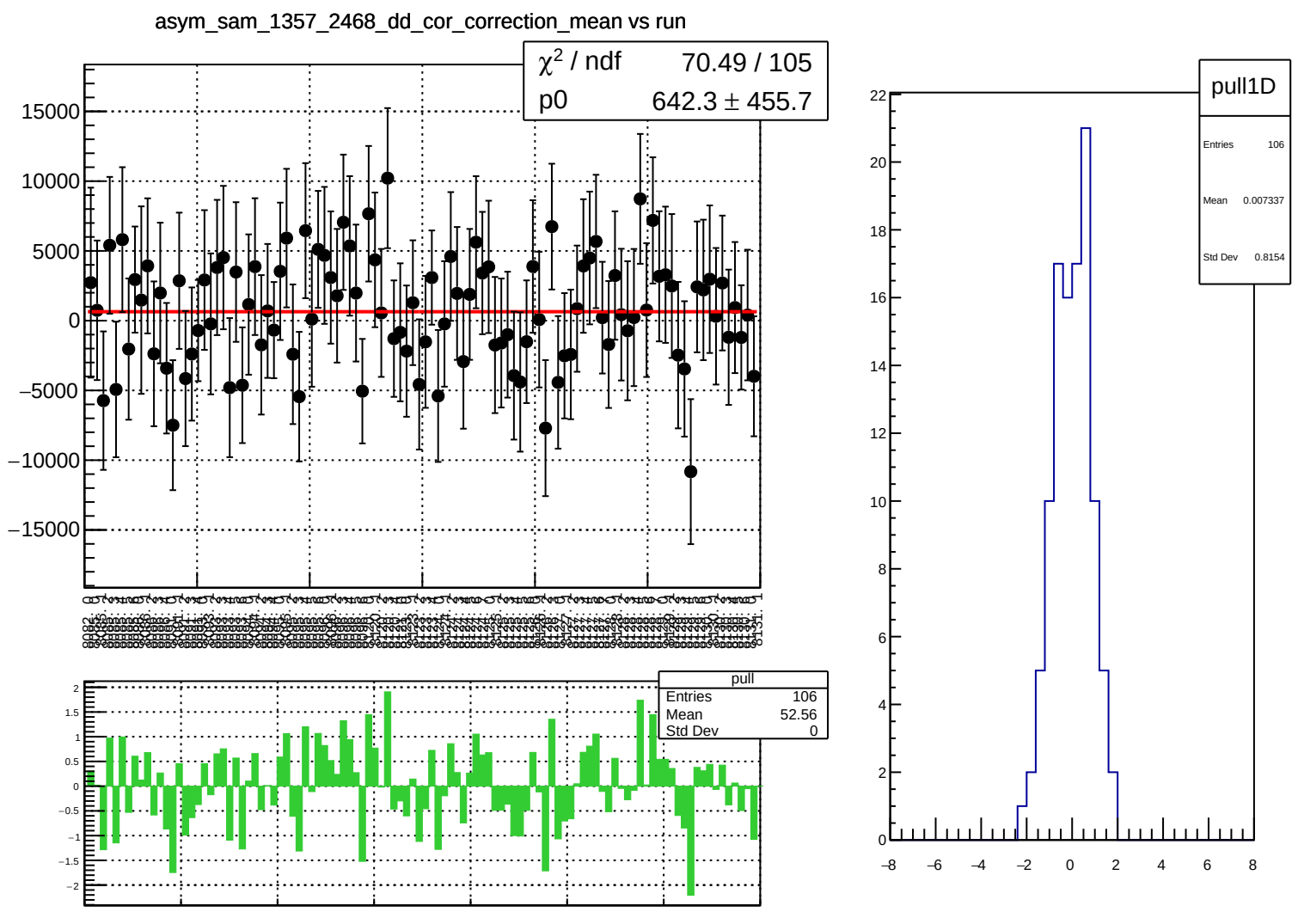

asym_sam_1357_2468_dd_reg_correction_mean vs run
χ² / ndf 70.49 / 105
p0 642.3 ± 455.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 106
Mean 52.56
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 106
Mean 0.007337
Std Dev 0.8154
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

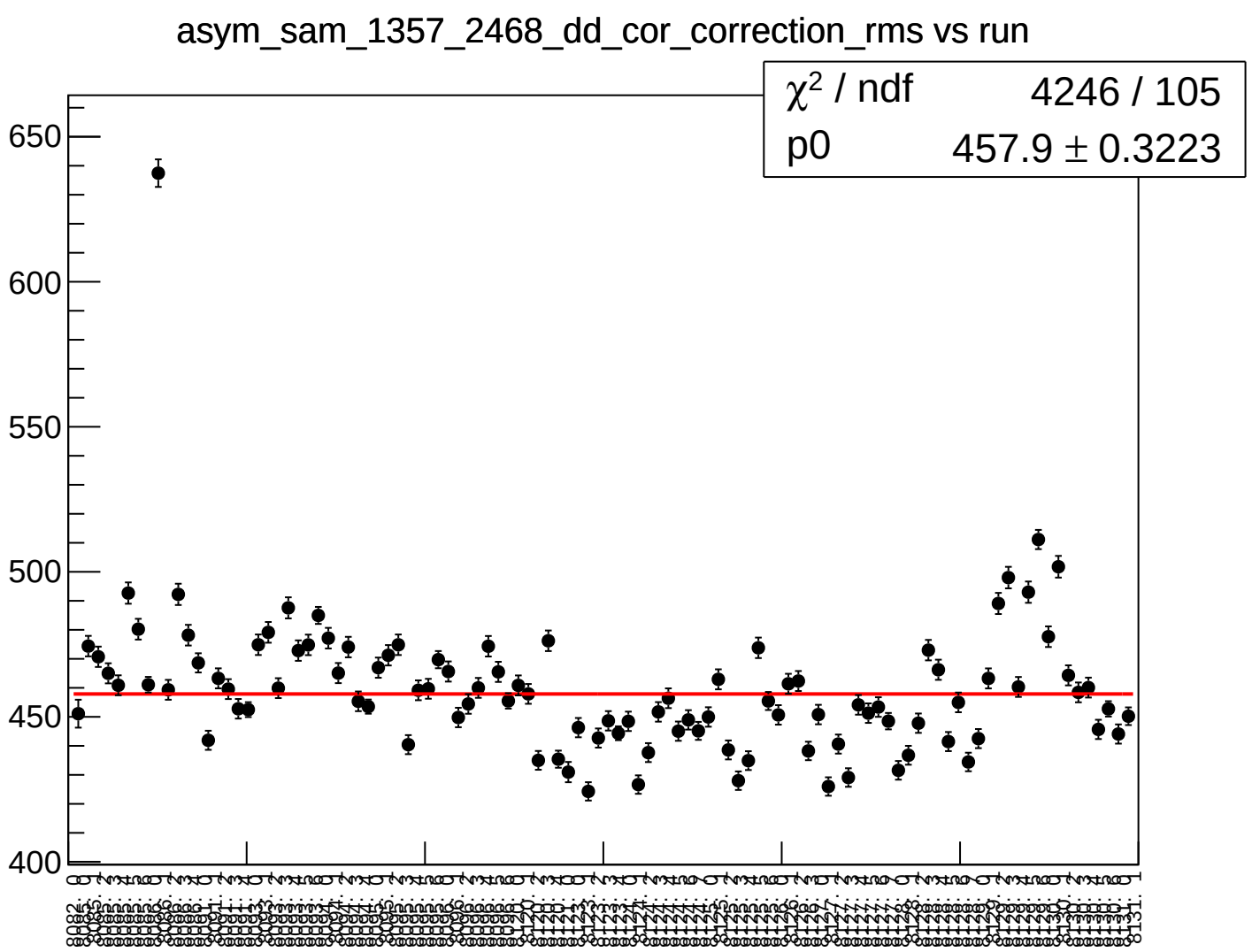

asym_sam_1357_2468_dd_reg_correction_rms vs run
χ² / ndf 4246 / 105
p0 457.9 ± 0.3223
650
600
550
500
450
400

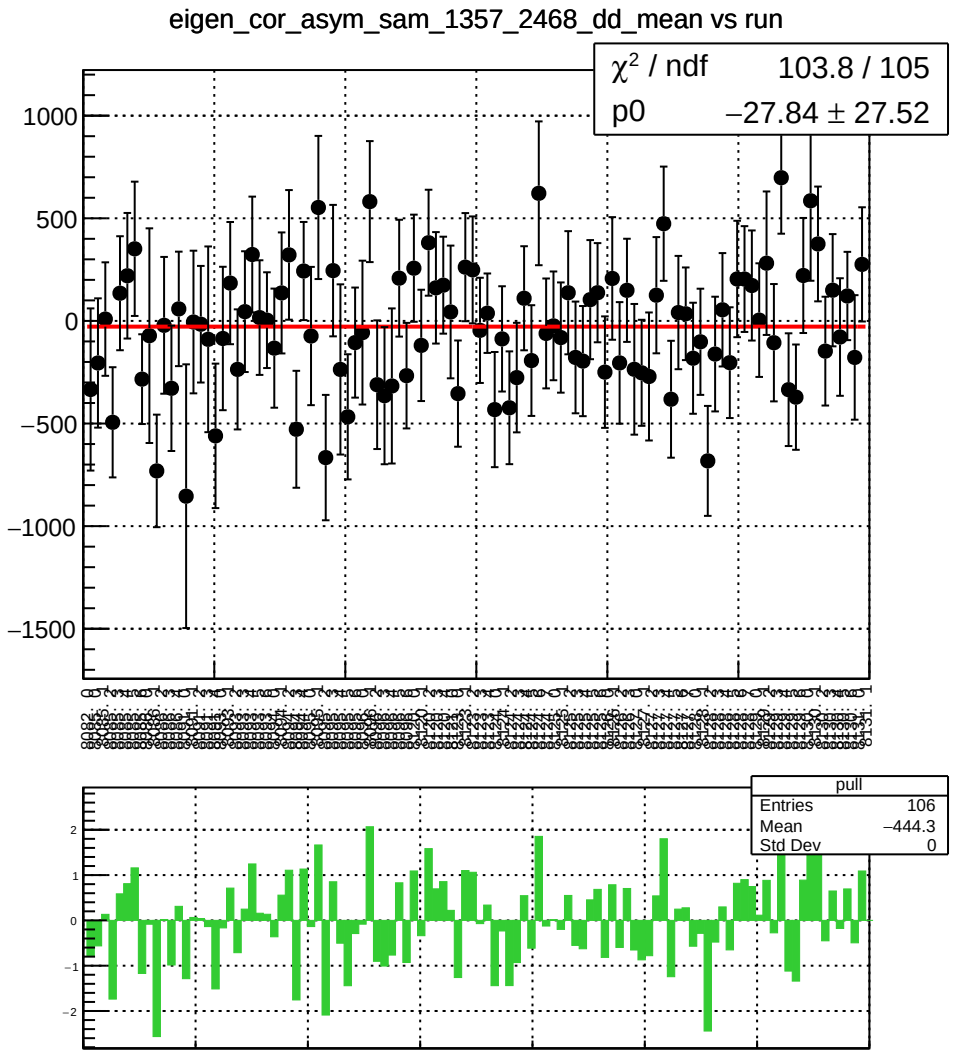

cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 103.8 / 105
p0 −27.84 ± 27.52
1000
500
0
−500
−1000
−1500
pull
Entries 106
Mean −444.3
Std Dev 0
2
1
0
−1
−2

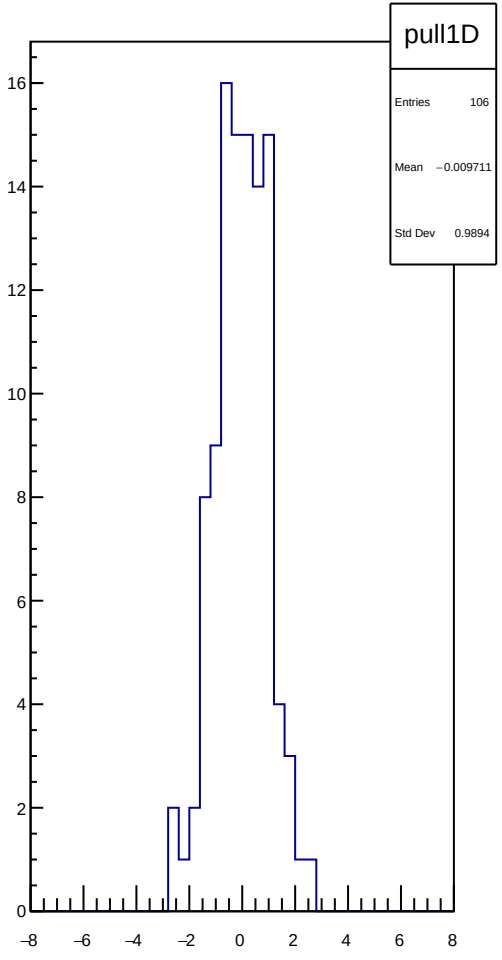

pull1D
Entries 106
Mean −0.009711
Std Dev 0.9894
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

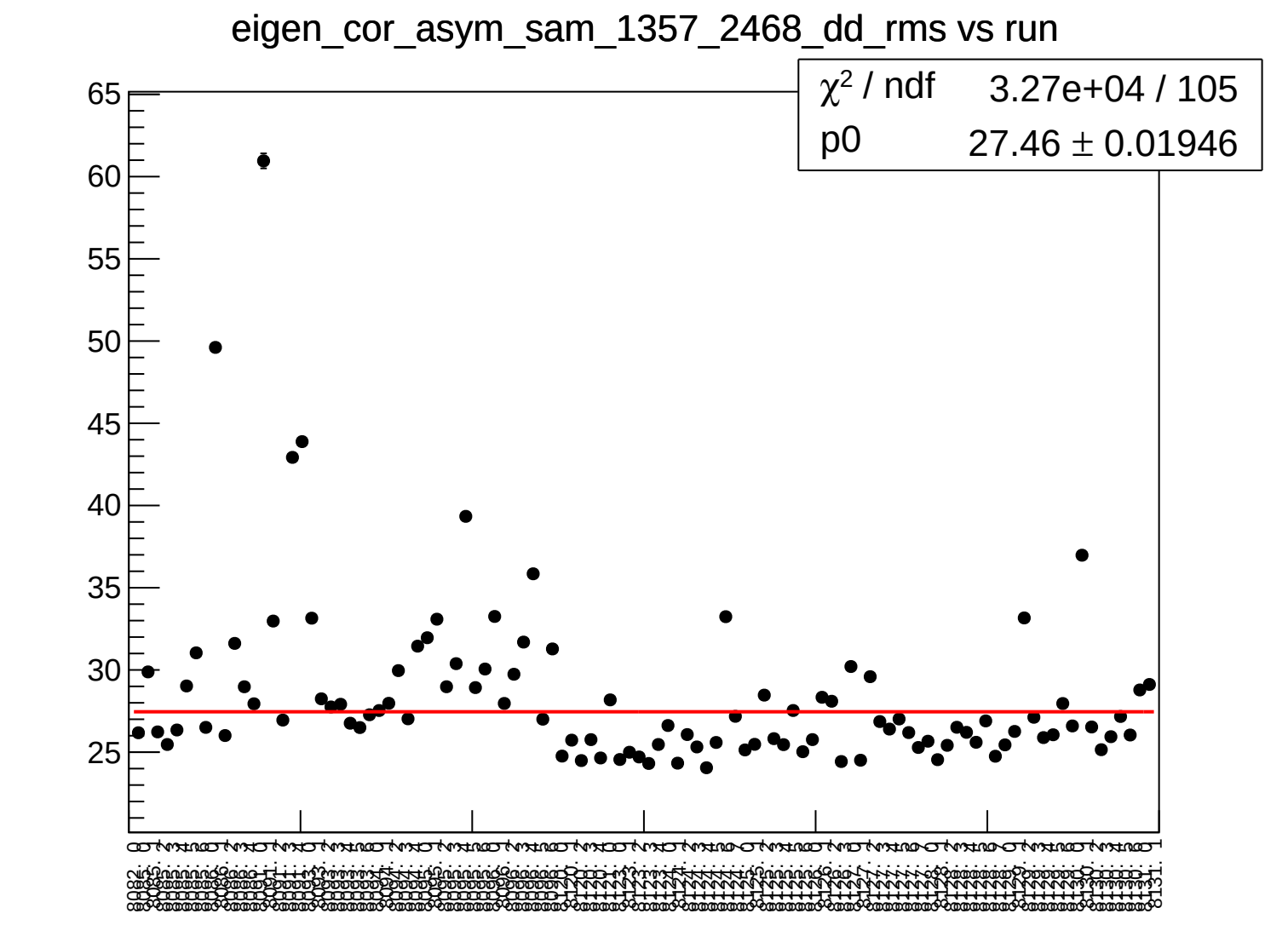

cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 3.27e+04 / 105
p0 27.46 ± 0.01946
65
60
55
50
45
40
35
30
25

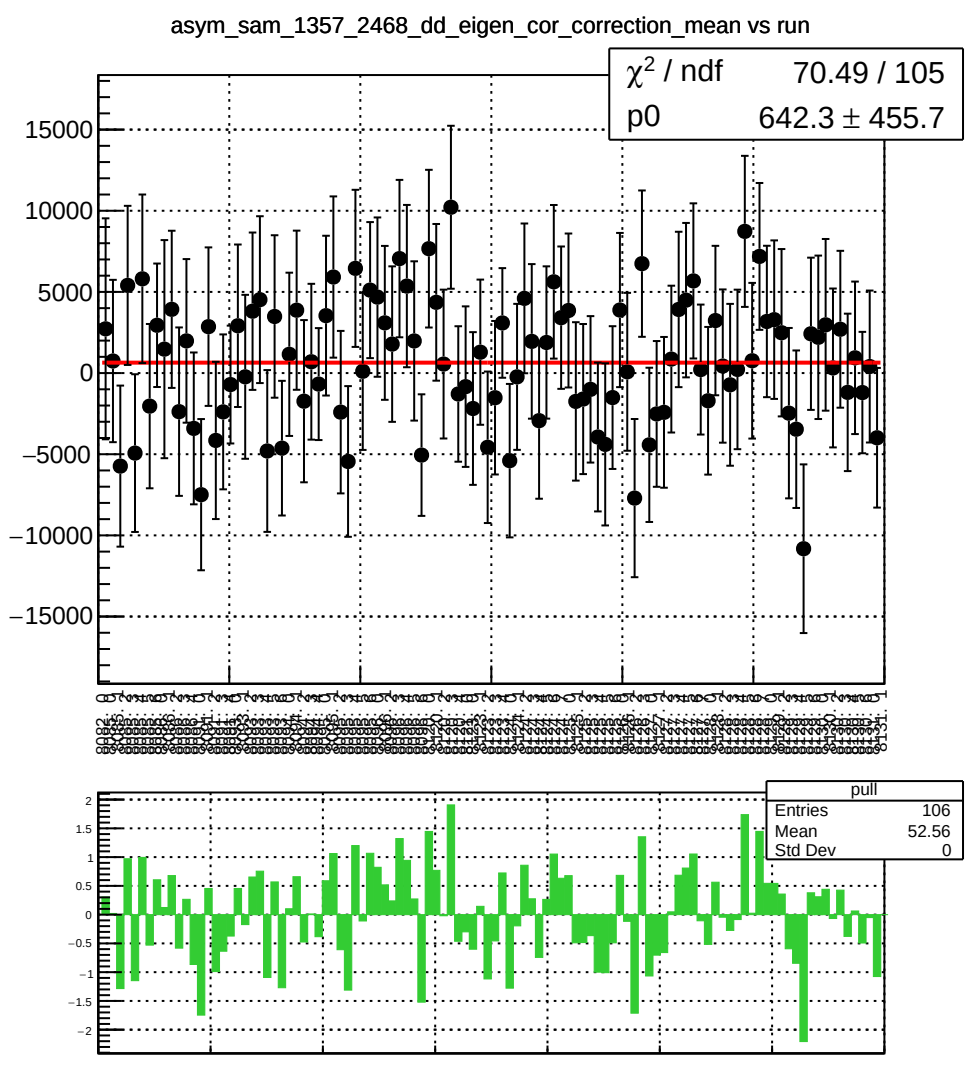

asym_sam_1357_2468_dd_cor_correction_mean vs run
χ² / ndf 70.49 / 105
p0 642.3 ± 455.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 106
Mean 52.56
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 106
Mean 0.007337
Std Dev 0.8154
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

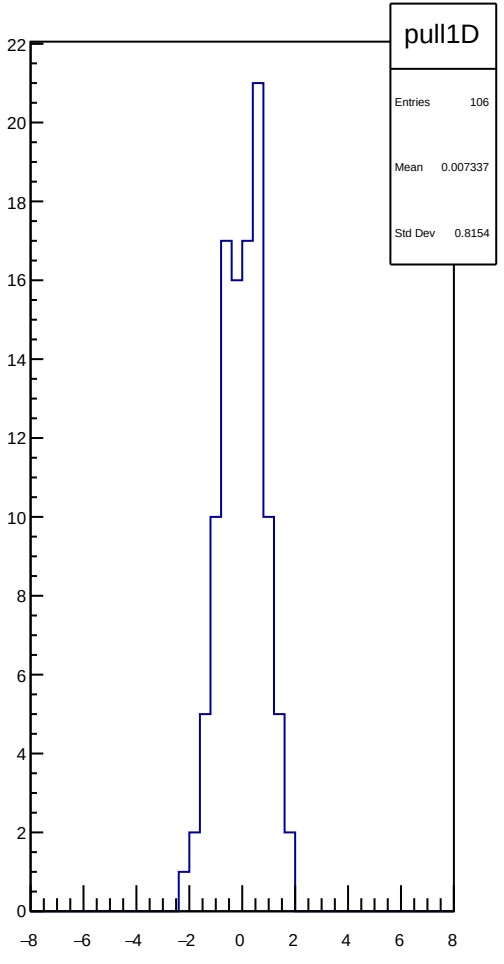

asym_sam_1357_2468_dd_cor_correction_rms vs run
χ² / ndf 4246 / 105
p0 457.9 ± 0.3223
650
600
550
500
450
400

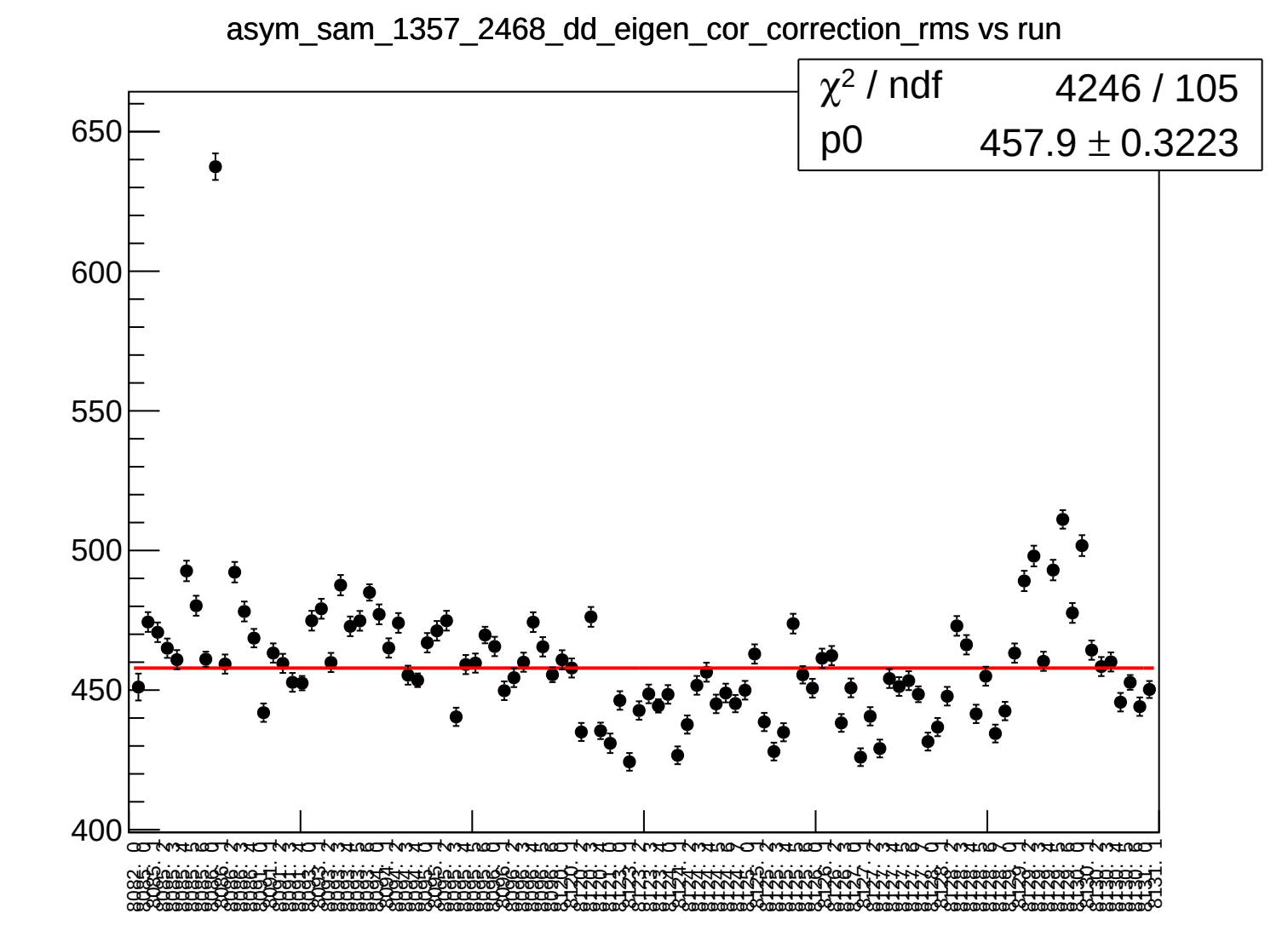

eigen_cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 103.8 / 105
p0 −27.84 ± 27.52
1000
500
0
−500
−1000
−1500
pull
Entries 106
Mean −444.3
Std Dev 0
2
1
0
−1
−2

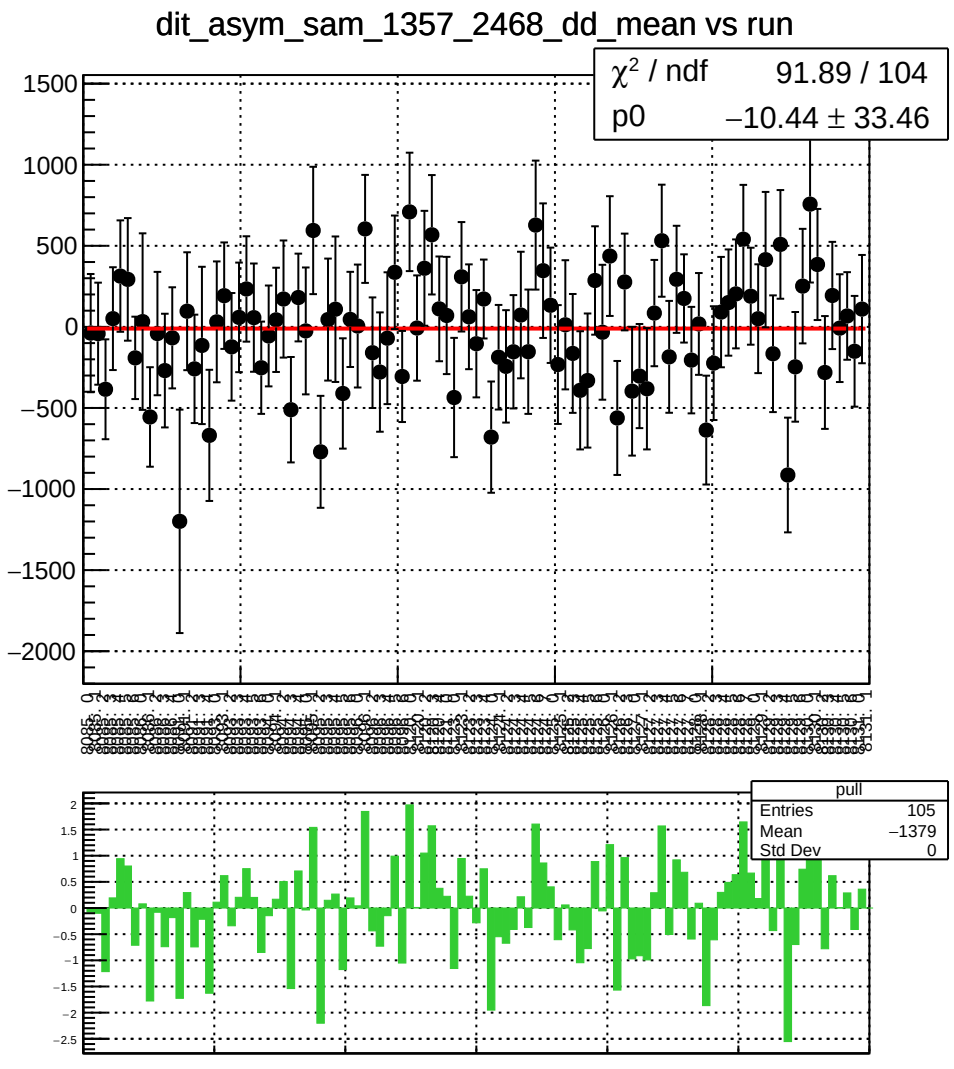

pull1D
Entries 106
Mean −0.009711
Std Dev 0.9894
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

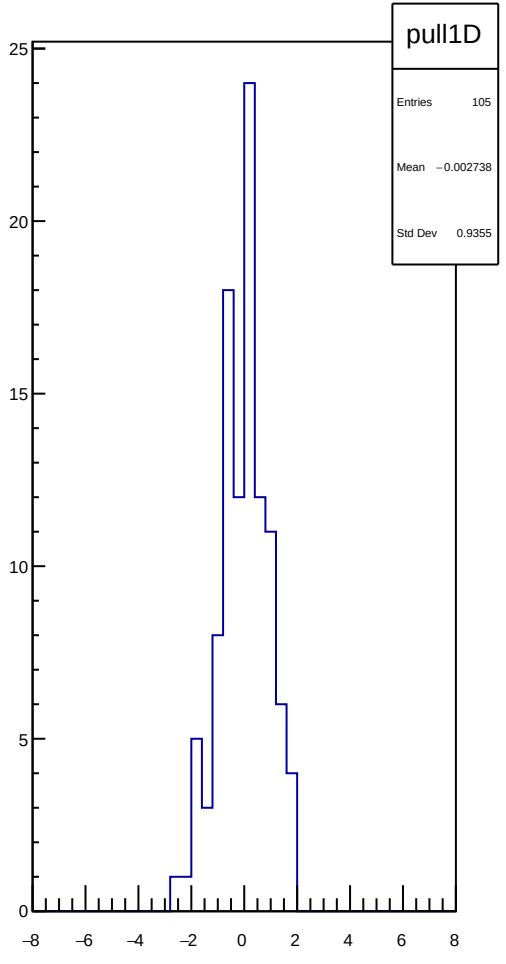

eigen_cor_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 3.27e+04 / 105
p0 27.46 ± 0.01946
65
60
55
50
45
40
35
30
25

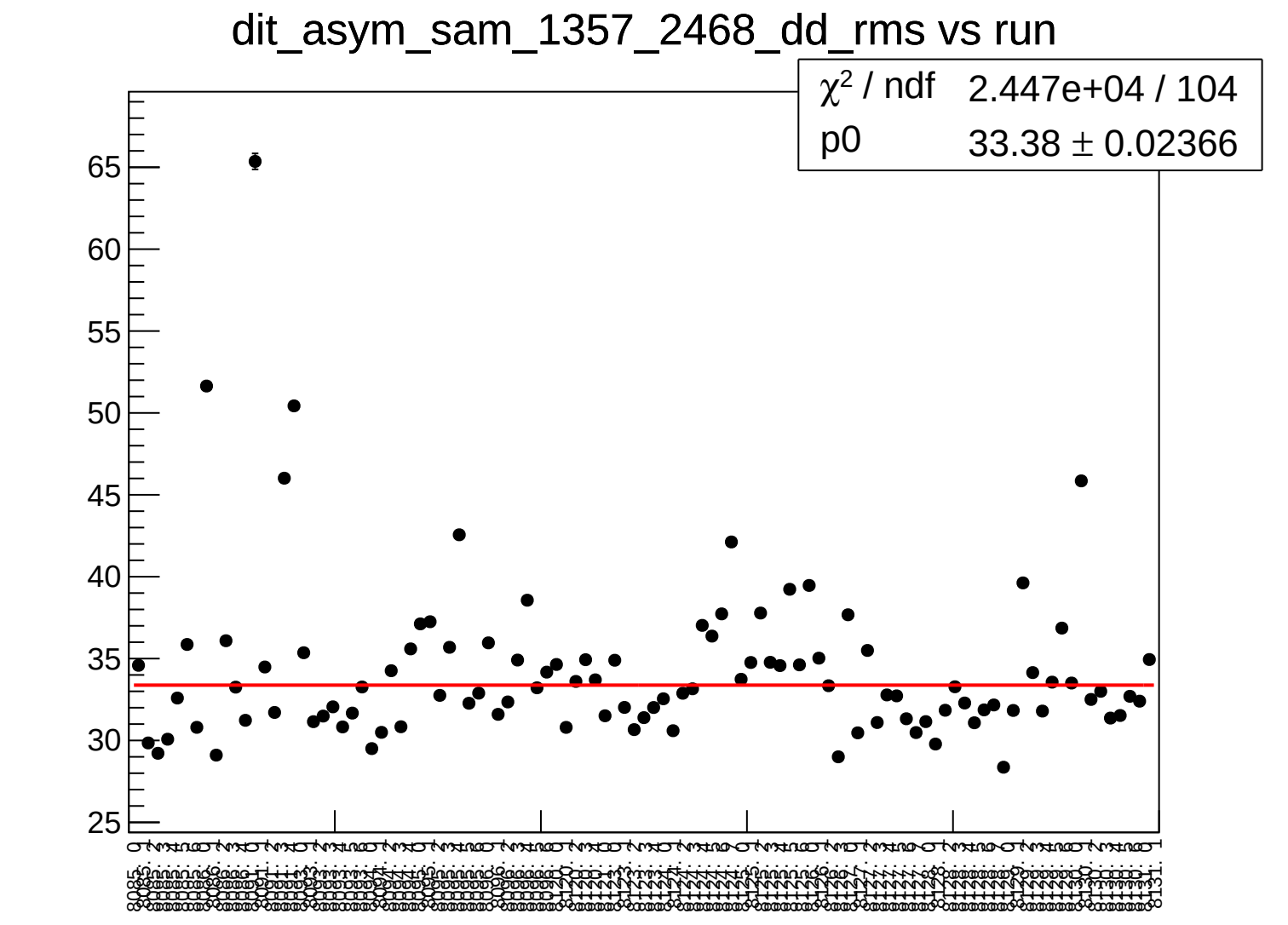

asym_sam_1357_2468_dd_eigen_cor_correction_mean vs run
χ² / ndf 70.49 / 105
p0 642.3 ± 455.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 106
Mean 52.56
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

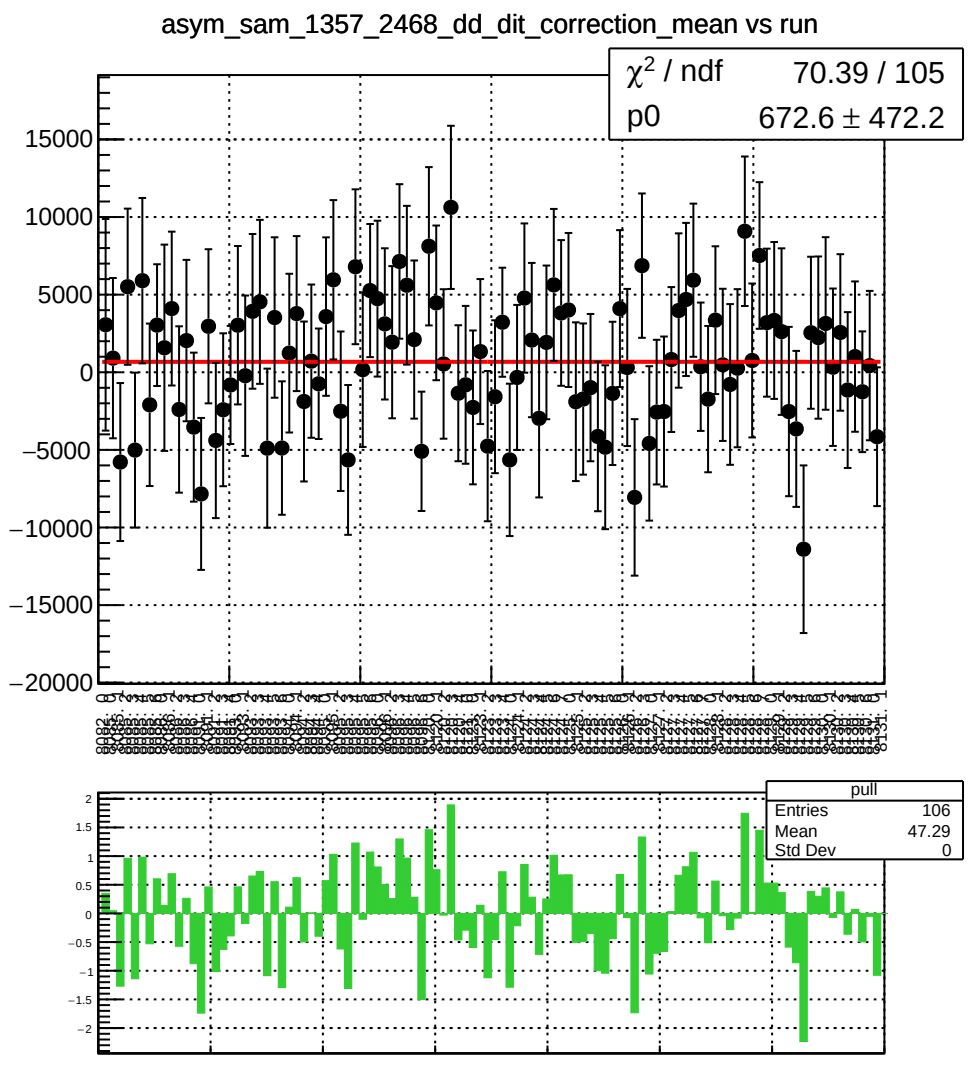

pull1D
Entries 106
Mean 0.007337
Std Dev 0.8154
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

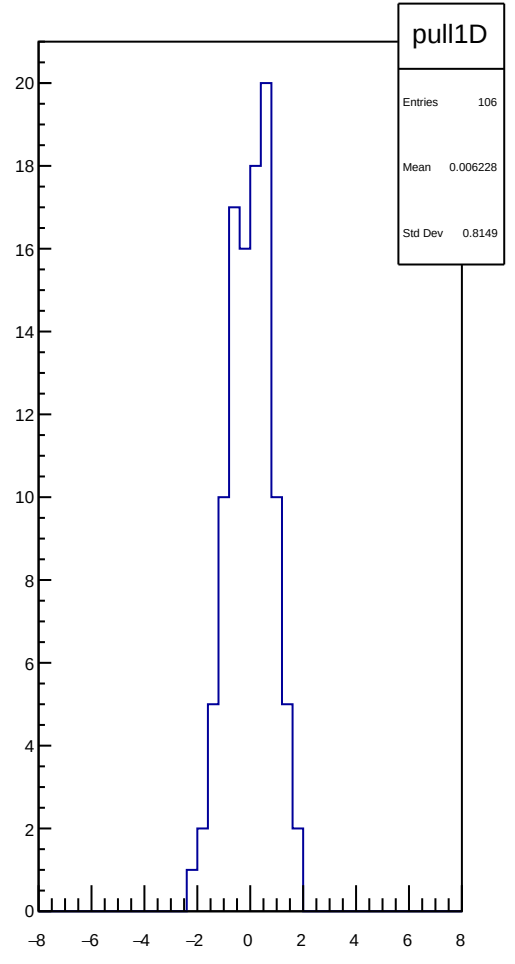

asym_sam_1357_2468_dd_eigen_cor_correction_rms vs run
χ² / ndf 4246 / 105
p0 457.9 ± 0.3223
650
600
550
500
450
400

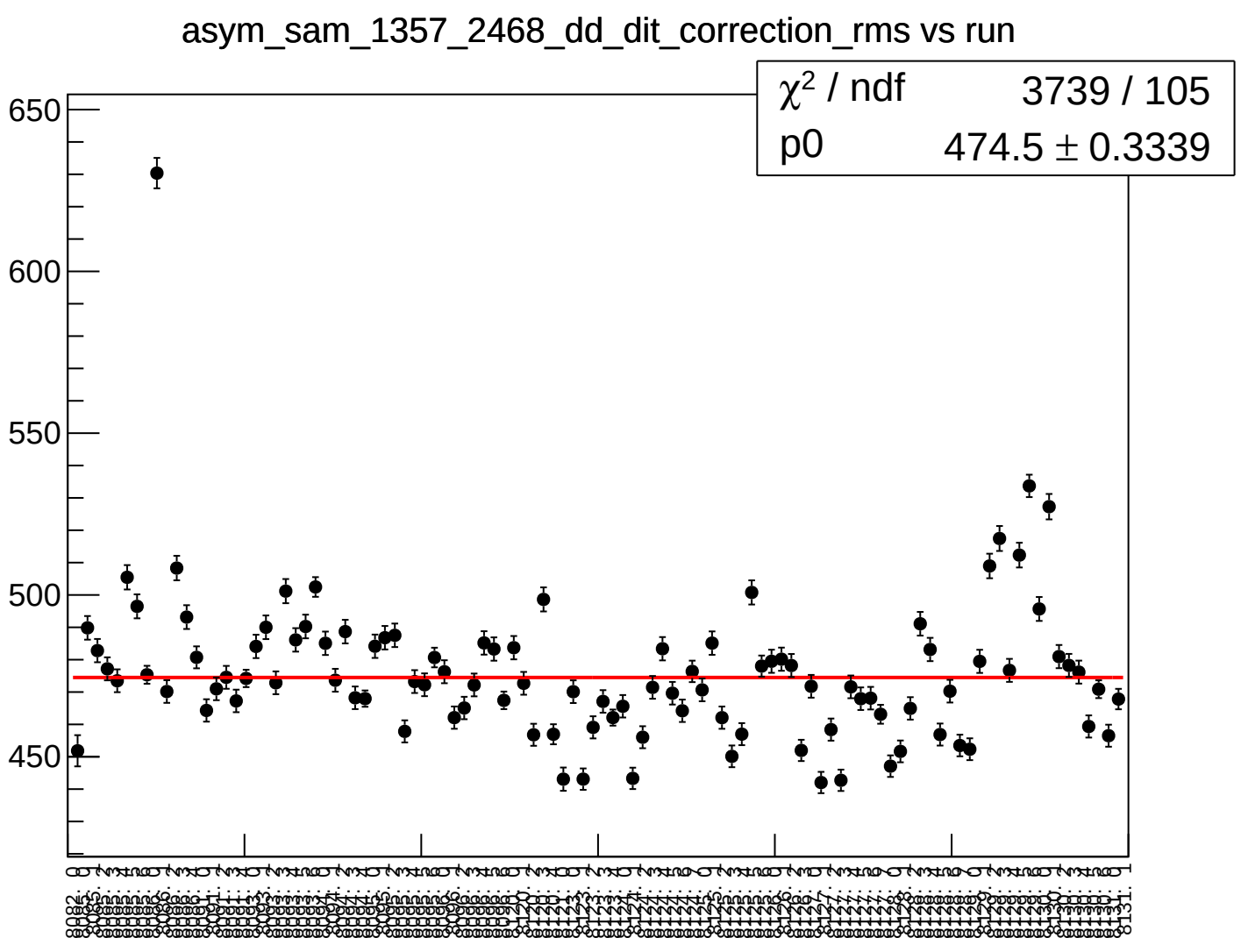

dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 91.89 / 104
p0 −10.44 ± 33.46
1500
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 105
Mean −1379
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

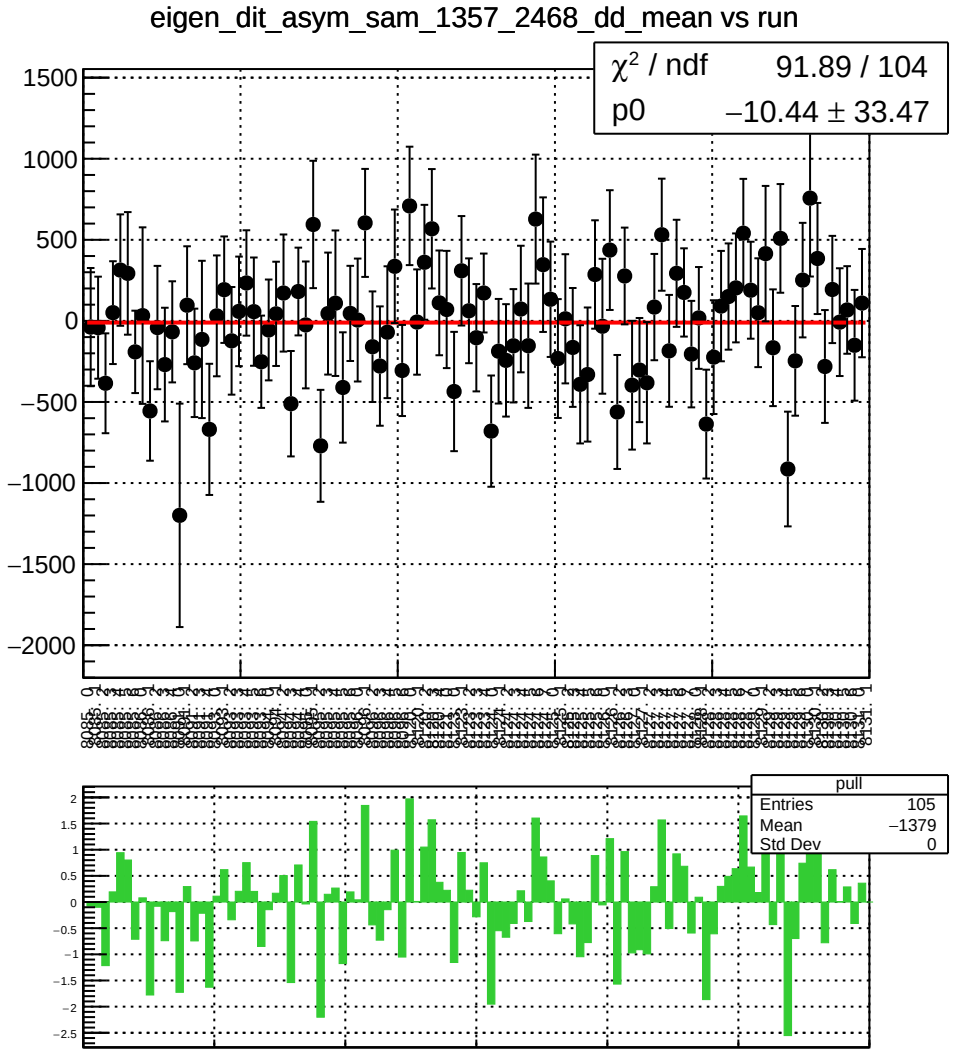

pull1D
Entries 105
Mean −0.002738
Std Dev 0.9355
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

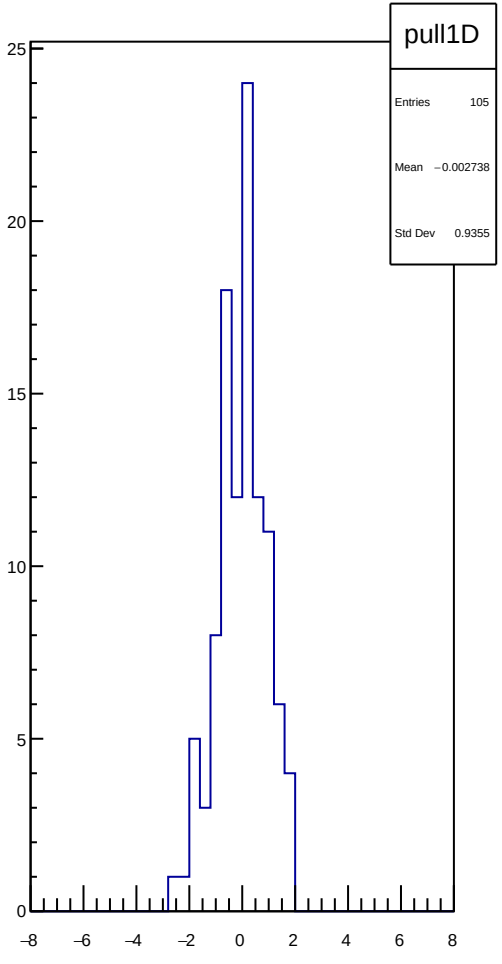

dit_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 2.447e+04 / 104
p0 33.38 ± 0.02366
65
60
55
50
45
40
35
30
25

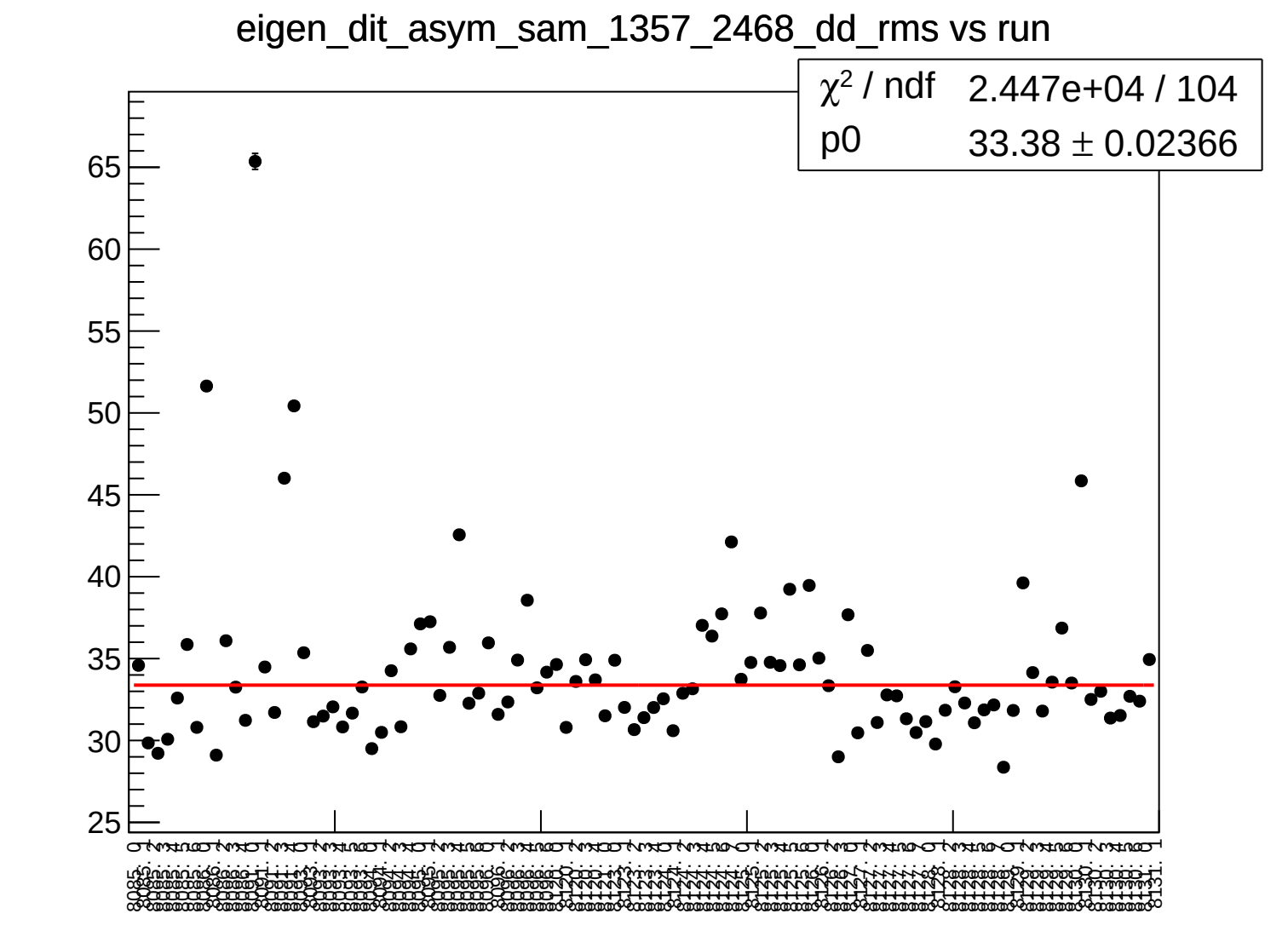

asym_sam_1357_2468_dd_dit_correction_mean vs run
χ² / ndf 70.39 / 105
p0 672.6 ± 472.2
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 106
Mean 47.29
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

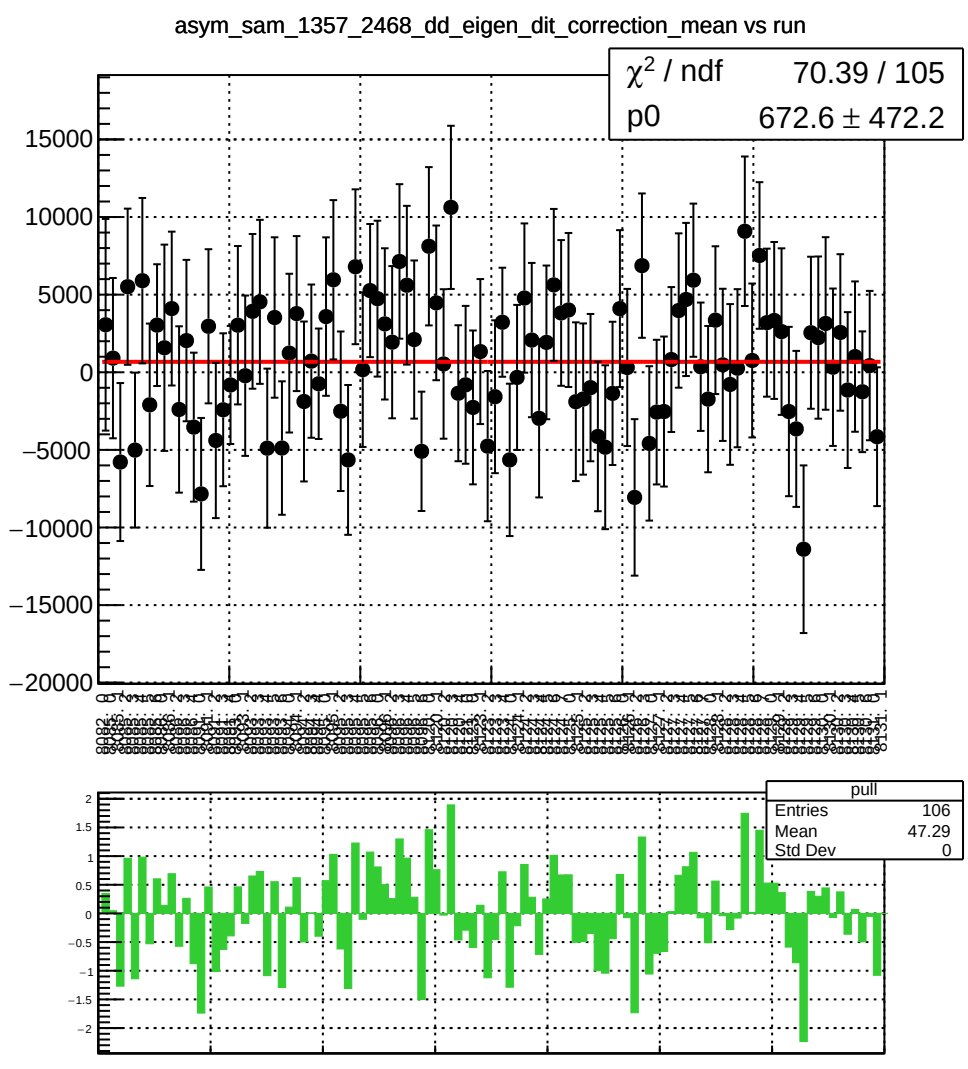

pull1D
Entries 106
Mean 0.006228
Std Dev 0.8149
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

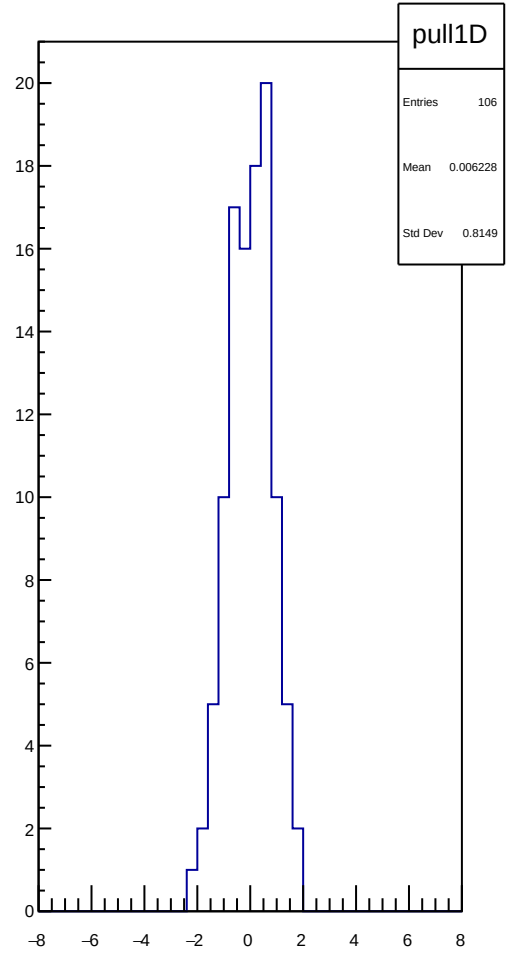

asym_sam_1357_2468_dd_dit_correction_rms vs run
χ² / ndf 3739 / 105
p0 474.5 ± 0.3339
650
600
550
500
450

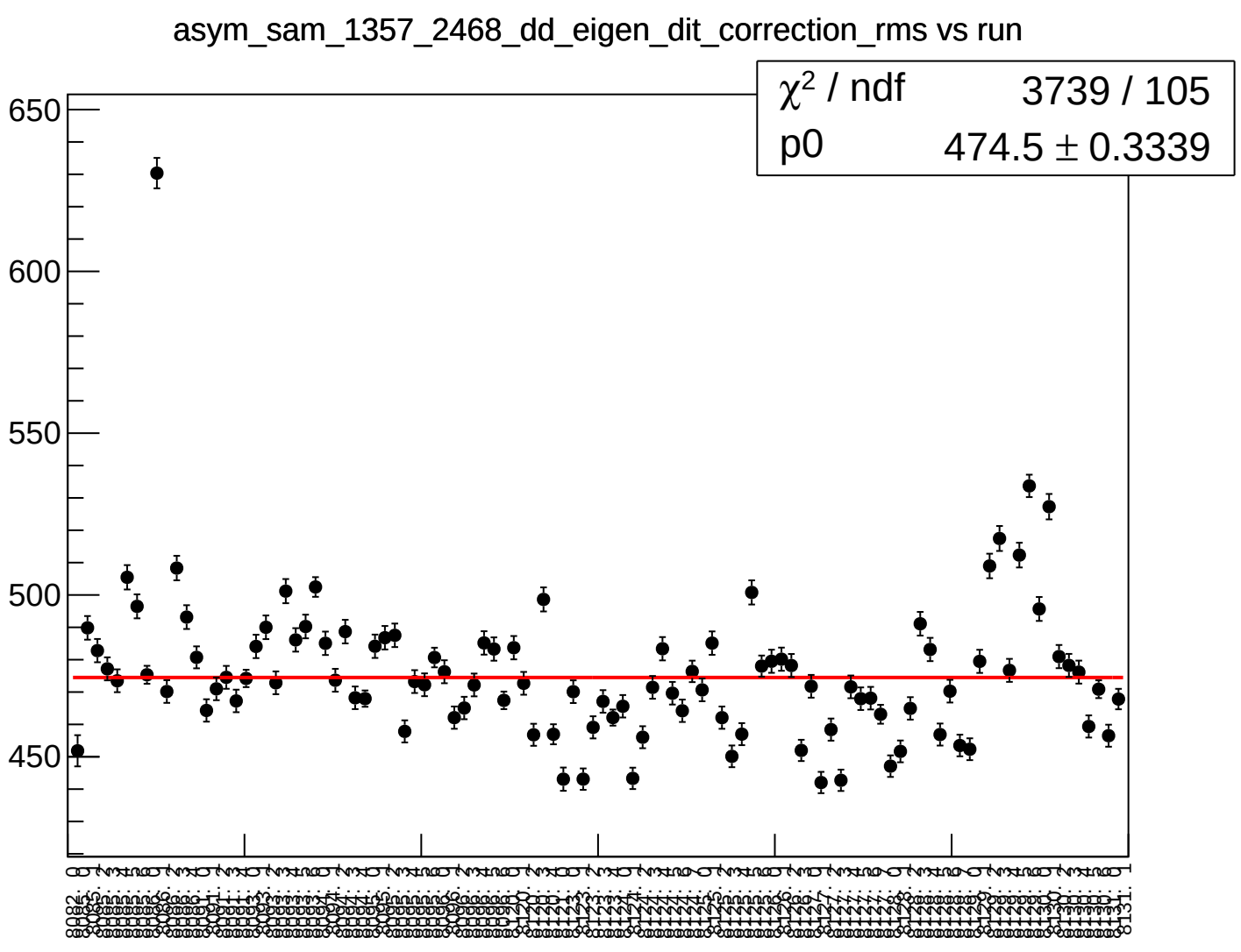

eigen_dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 91.89 / 104
p0 −10.44 ± 33.47
pull
Entries 105
Mean −1379
Std Dev 0

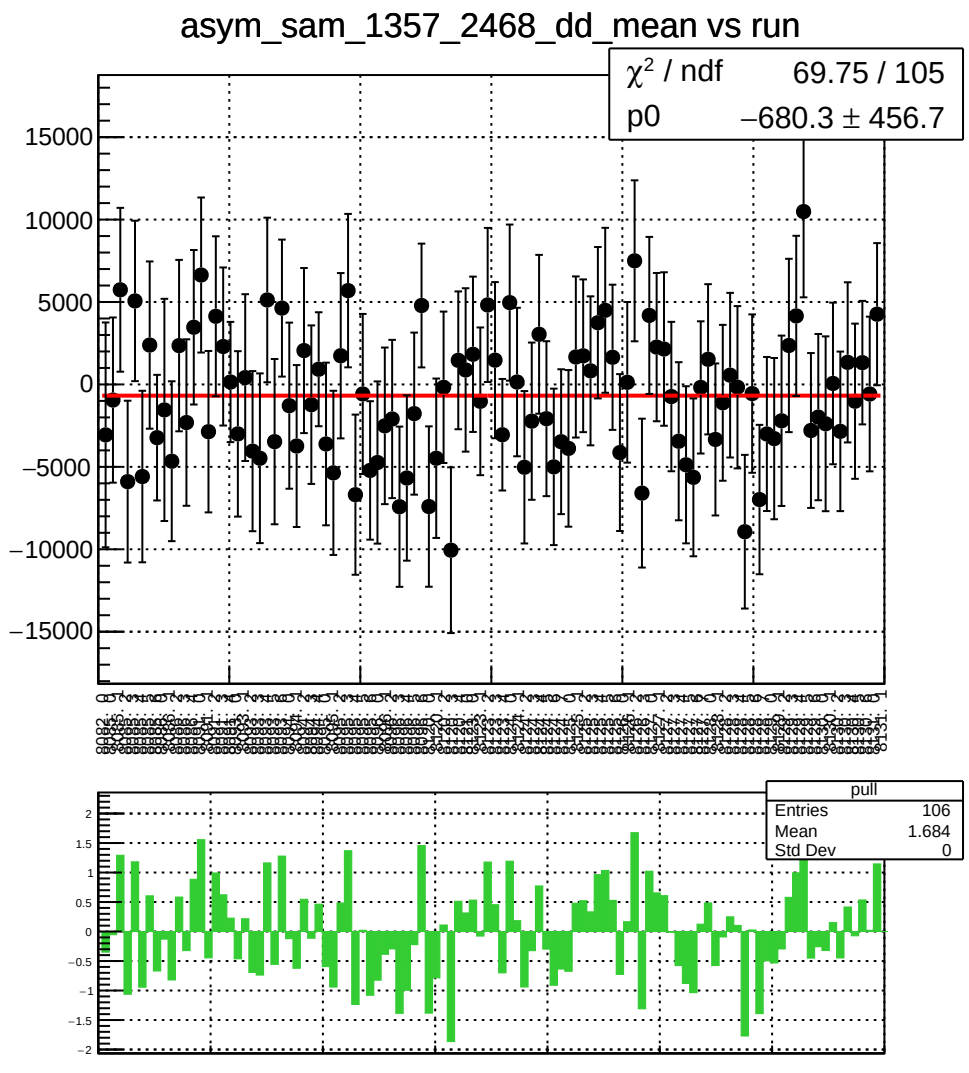

pull1D
Entries 105
Mean −0.002738
Std Dev 0.9355

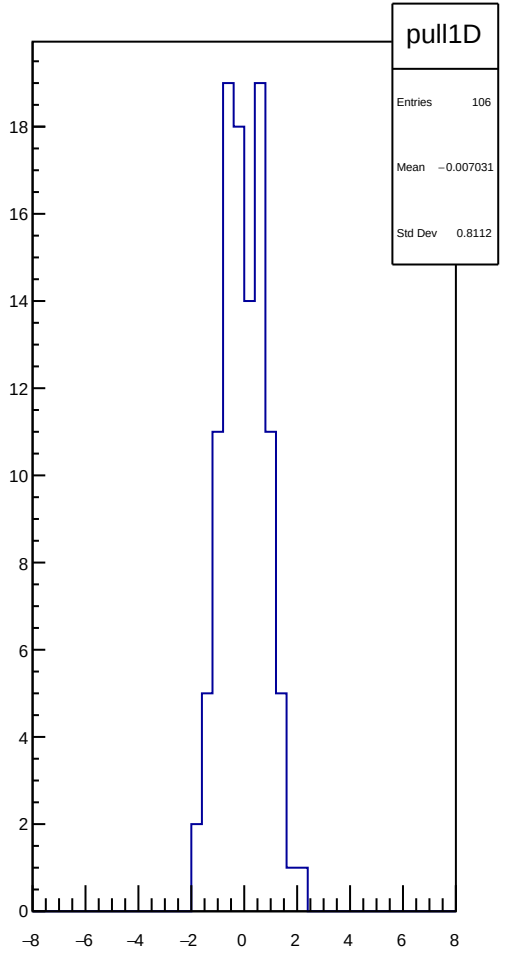

eigen_dit_asym_sam_1357_2468_dd_rms vs run
$\chi^2$ / ndf 2.447e+04 / 104
p0 33.38 ± 0.02366
65
60
55
50
45
40
35
30
25

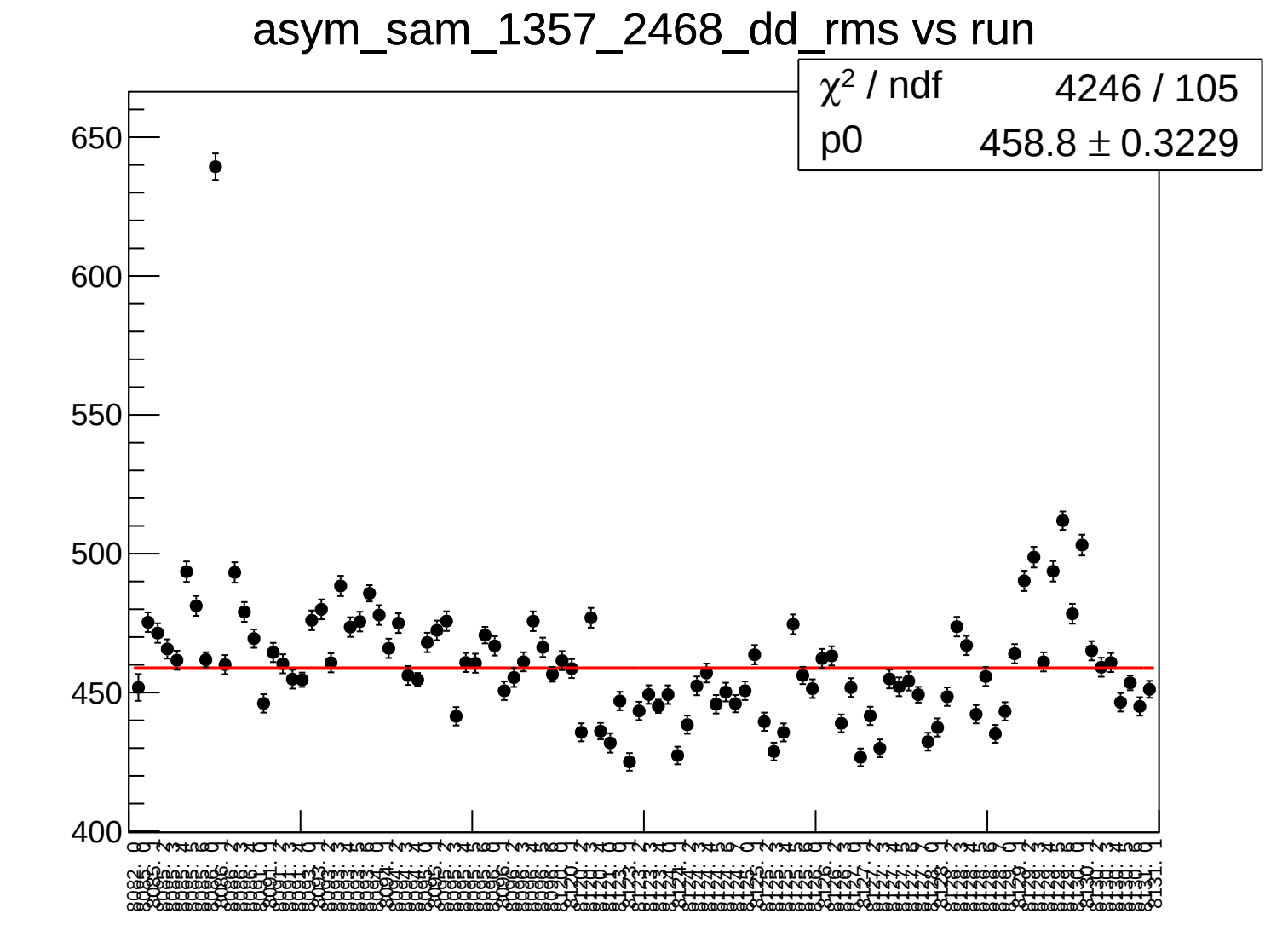

asym_sam_1357_2468_dd_eigen_dit_correction_mean vs run
χ² / ndf 70.39 / 105
p0 672.6 ± 472.2
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 106
Mean 47.29
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

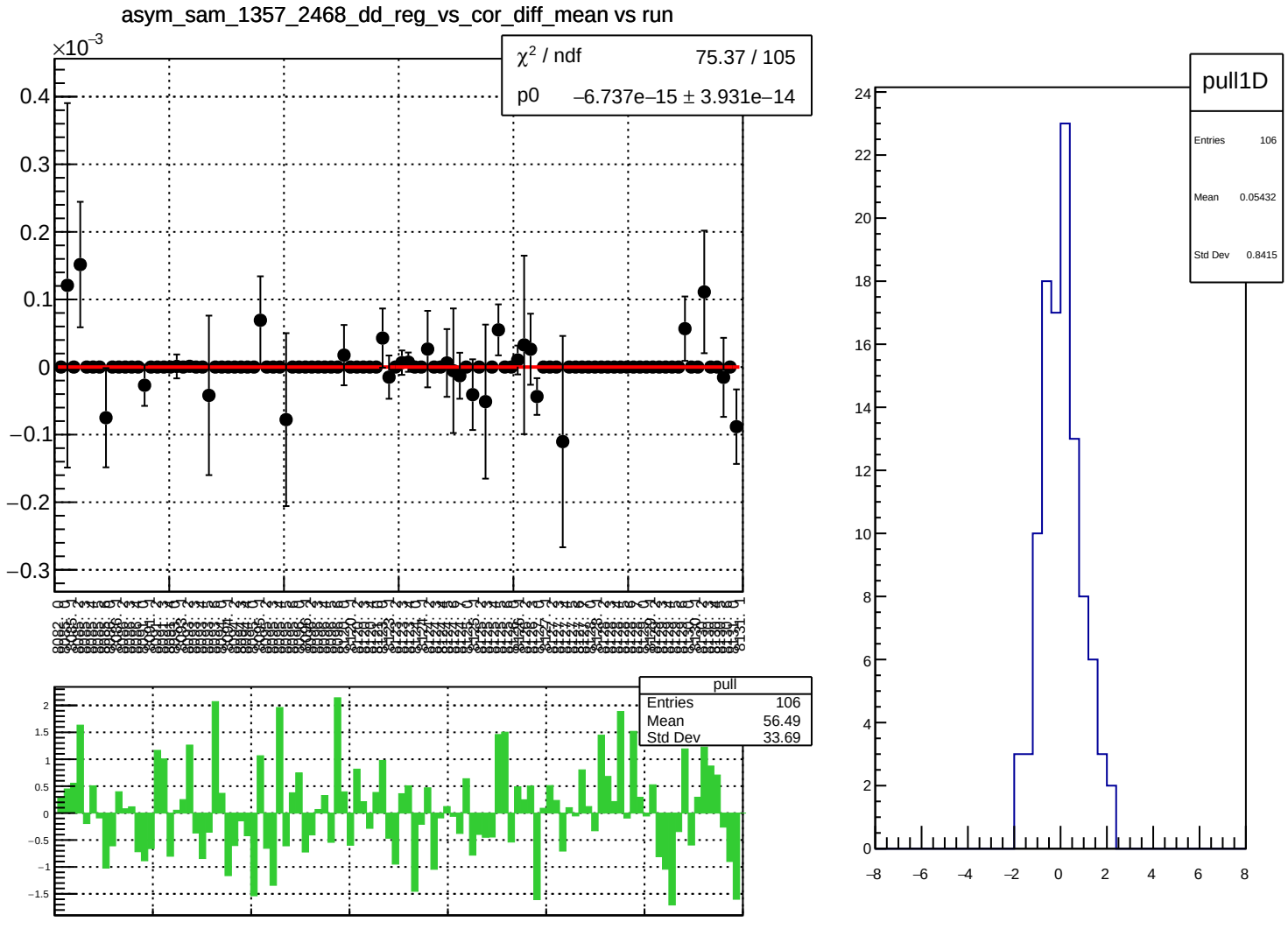

pull1D
Entries 106
Mean 0.006228
Std Dev 0.8149
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

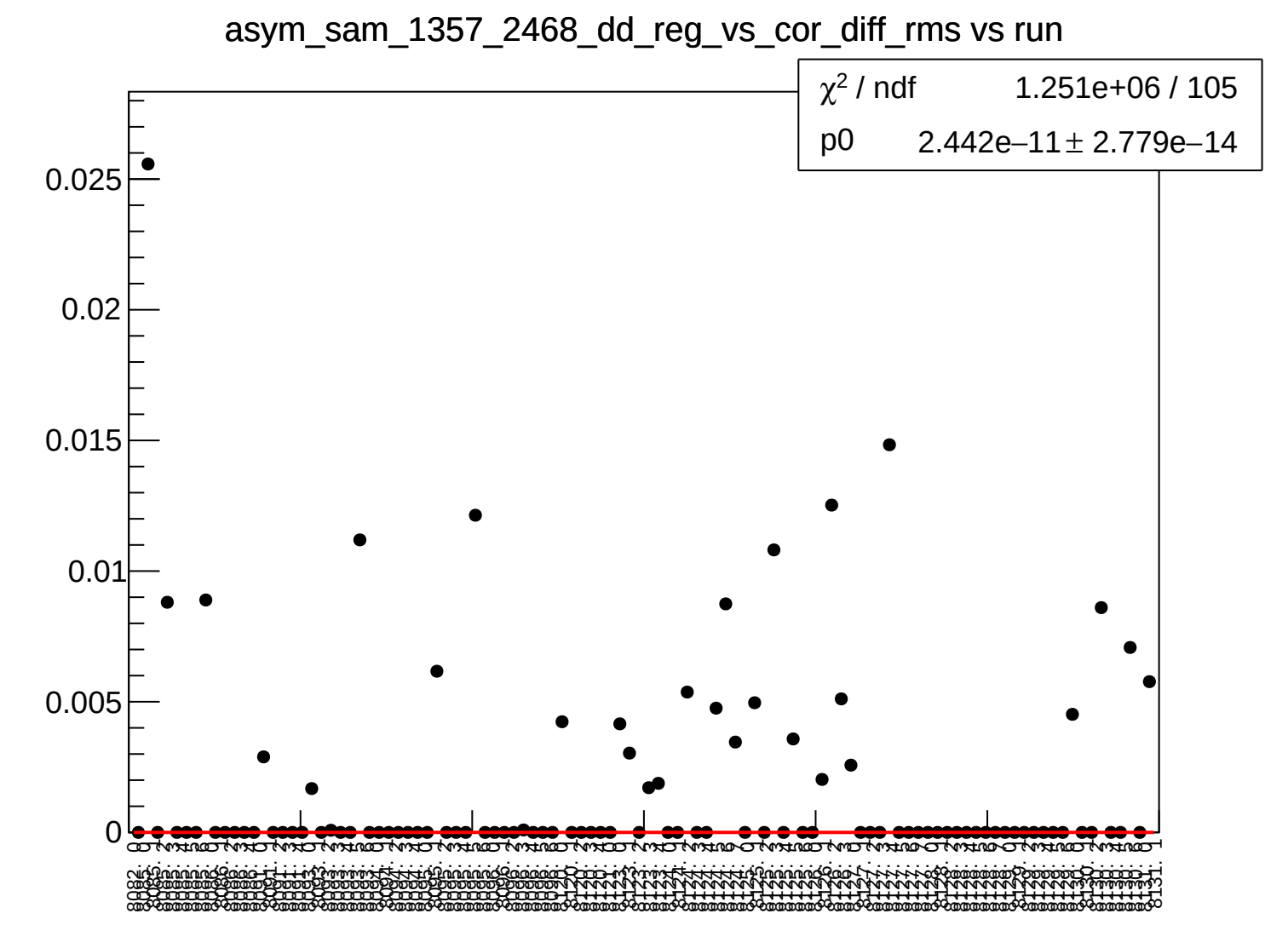

asym_sam_1357_2468_dd_eigen_dit_correction_rms vs run
χ² / ndf 3739 / 105
p0 474.5 ± 0.3339
650
600
550
500
450

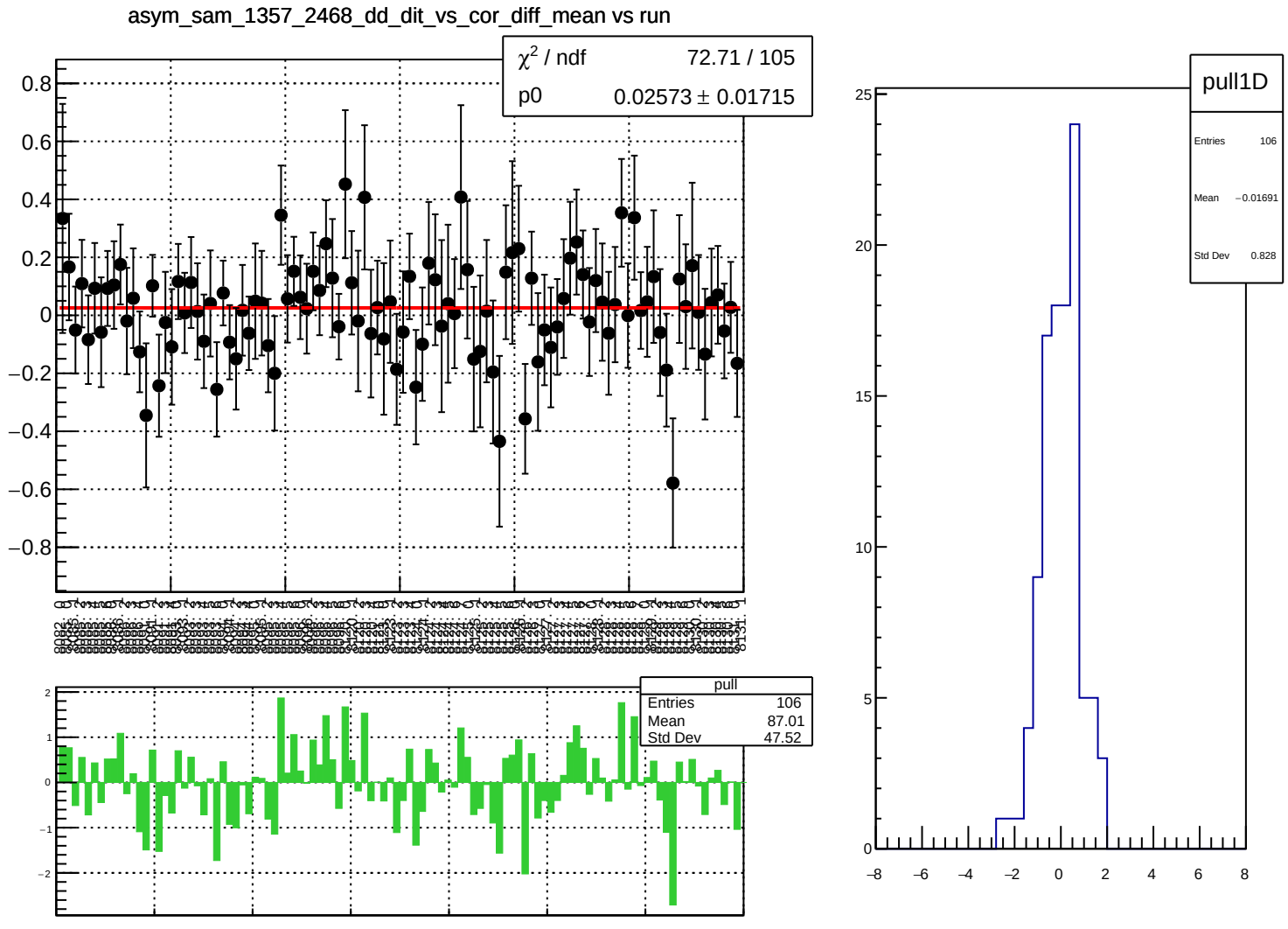

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 69.75 / 105
p0 −680.3 ± 456.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 106
Mean 1.684
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

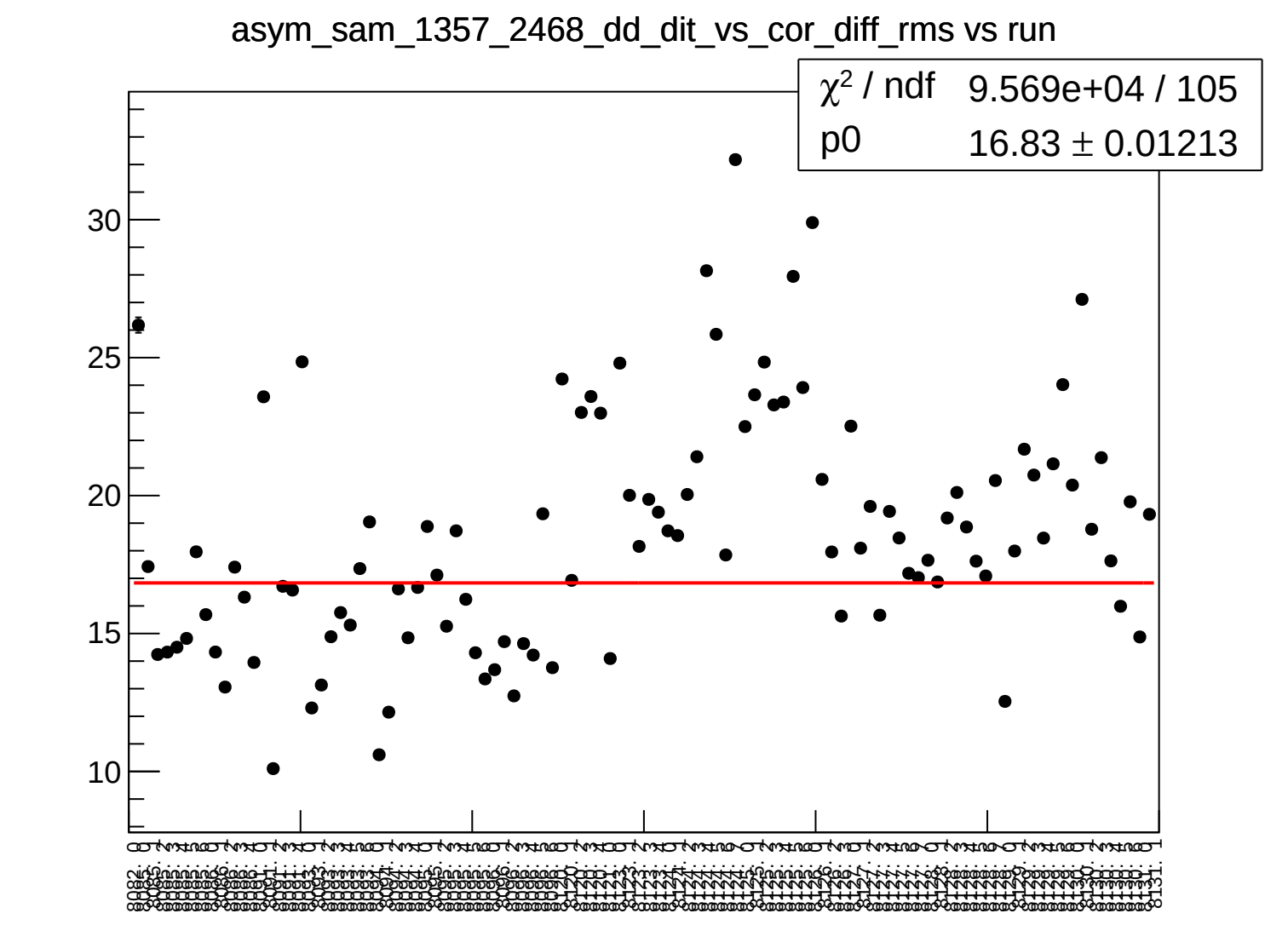

pull1D
Entries 106
Mean −0.007031
Std Dev 0.8112
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

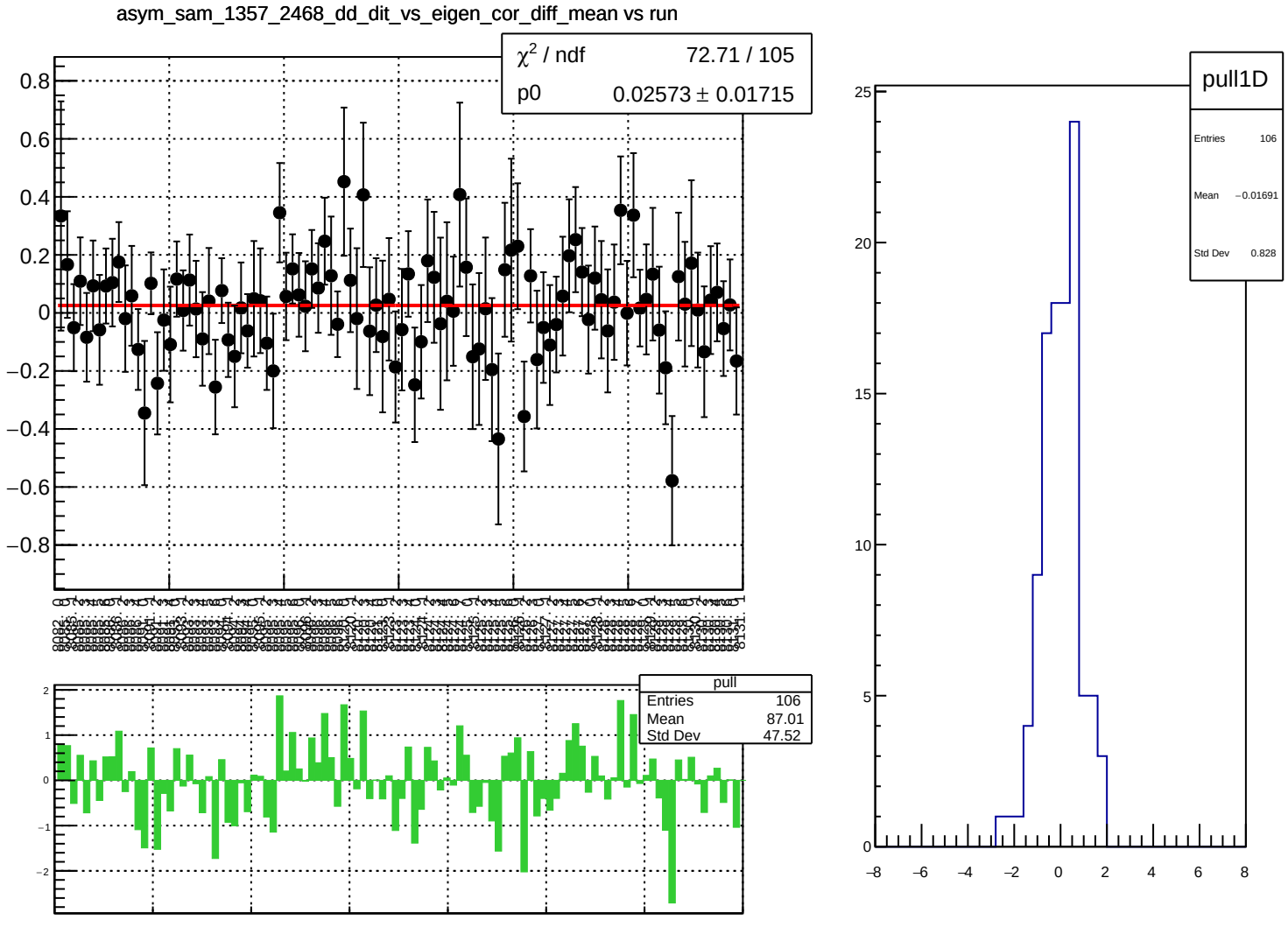

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 4246 / 105
p0 458.8 ± 0.3229
650
600
550
500
450
400

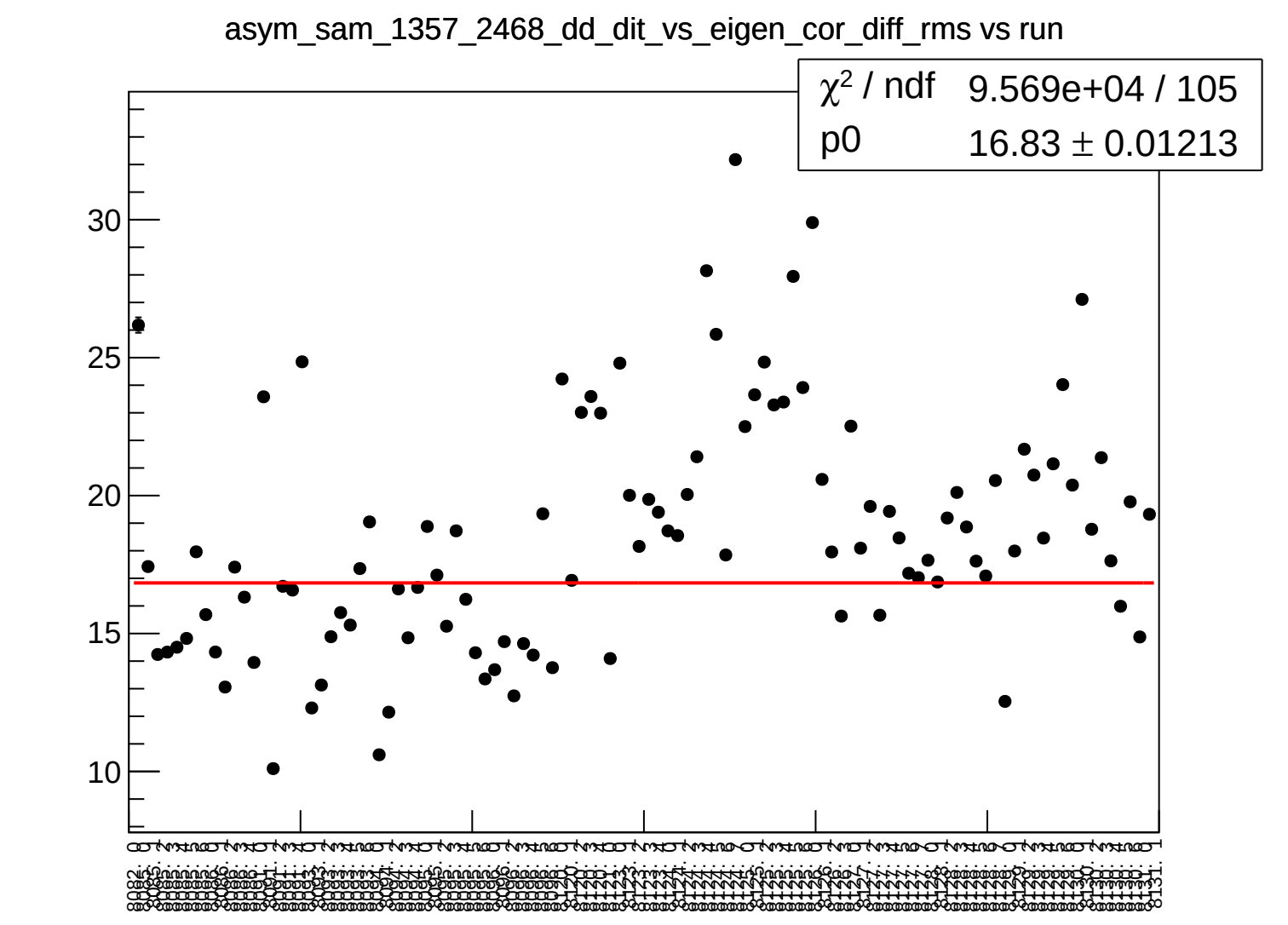

asym_sam_1357_2468_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 75.37 / 105
p0 −6.737e−15 ± 3.931e−14
pull
Entries 106
Mean 56.49
Std Dev 33.69
pull1D
Entries 106
Mean 0.05432
Std Dev 0.8415

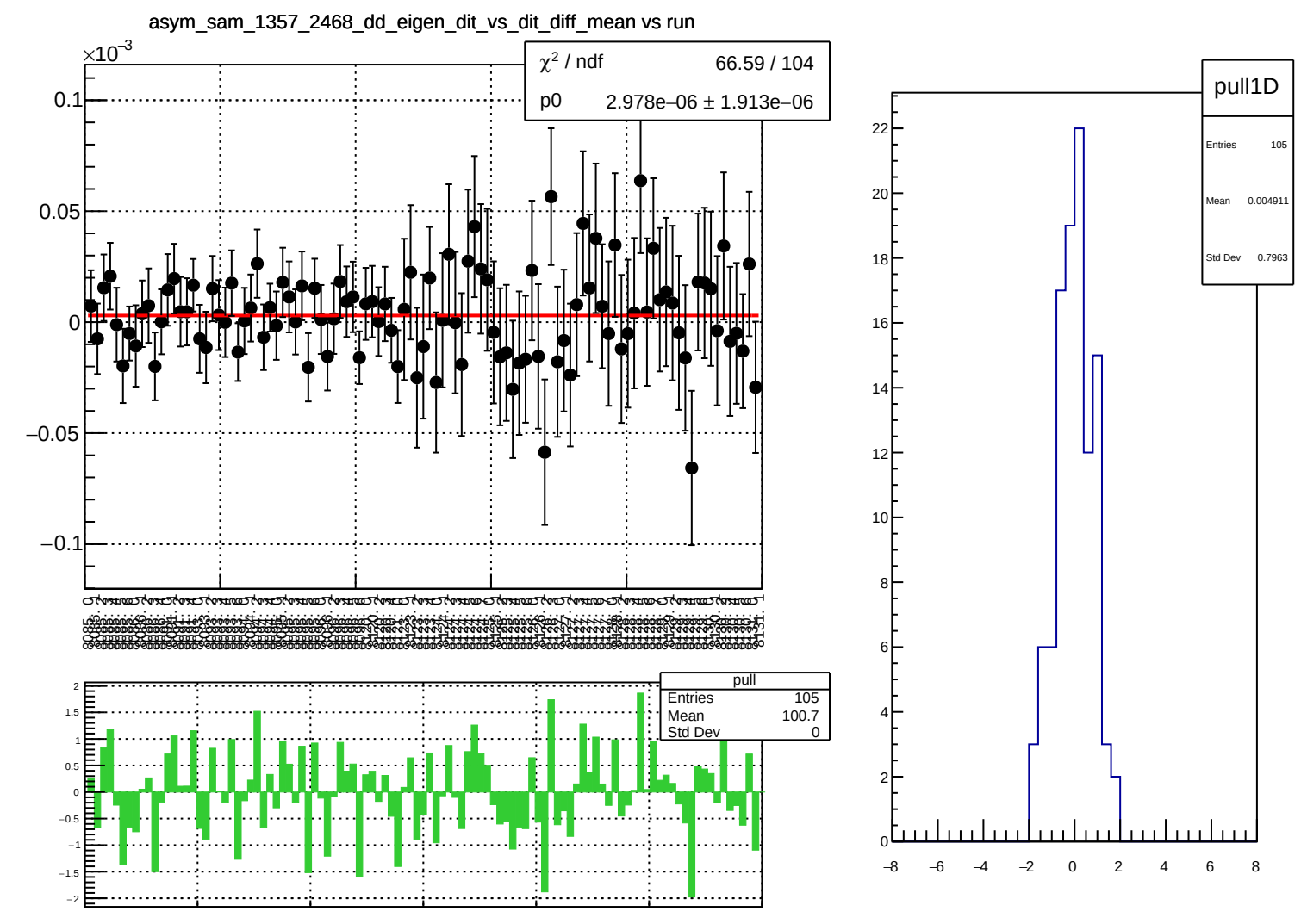

asym_sam_1357_2468_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.251e+06 / 105
p0 2.442e−11 ± 2.779e−14
0.025
0.02
0.015
0.01
0.005
0

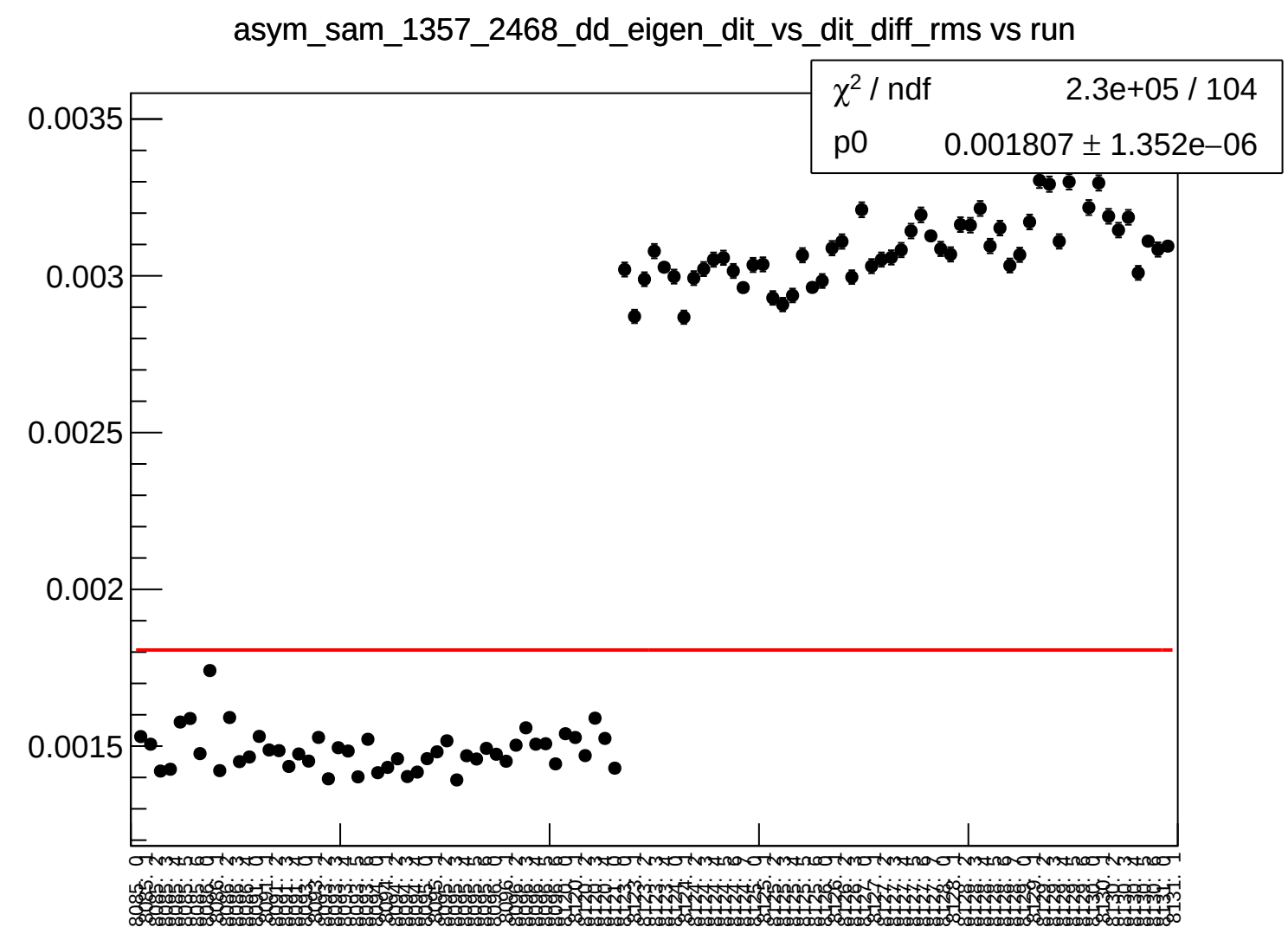

asym_sam_1357_2468_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 72.71 / 105
p0 0.02573 ± 0.01715
pull
Entries 106
Mean 87.01
Std Dev 47.52
pull1D
Entries 106
Mean −0.01691
Std Dev 0.828

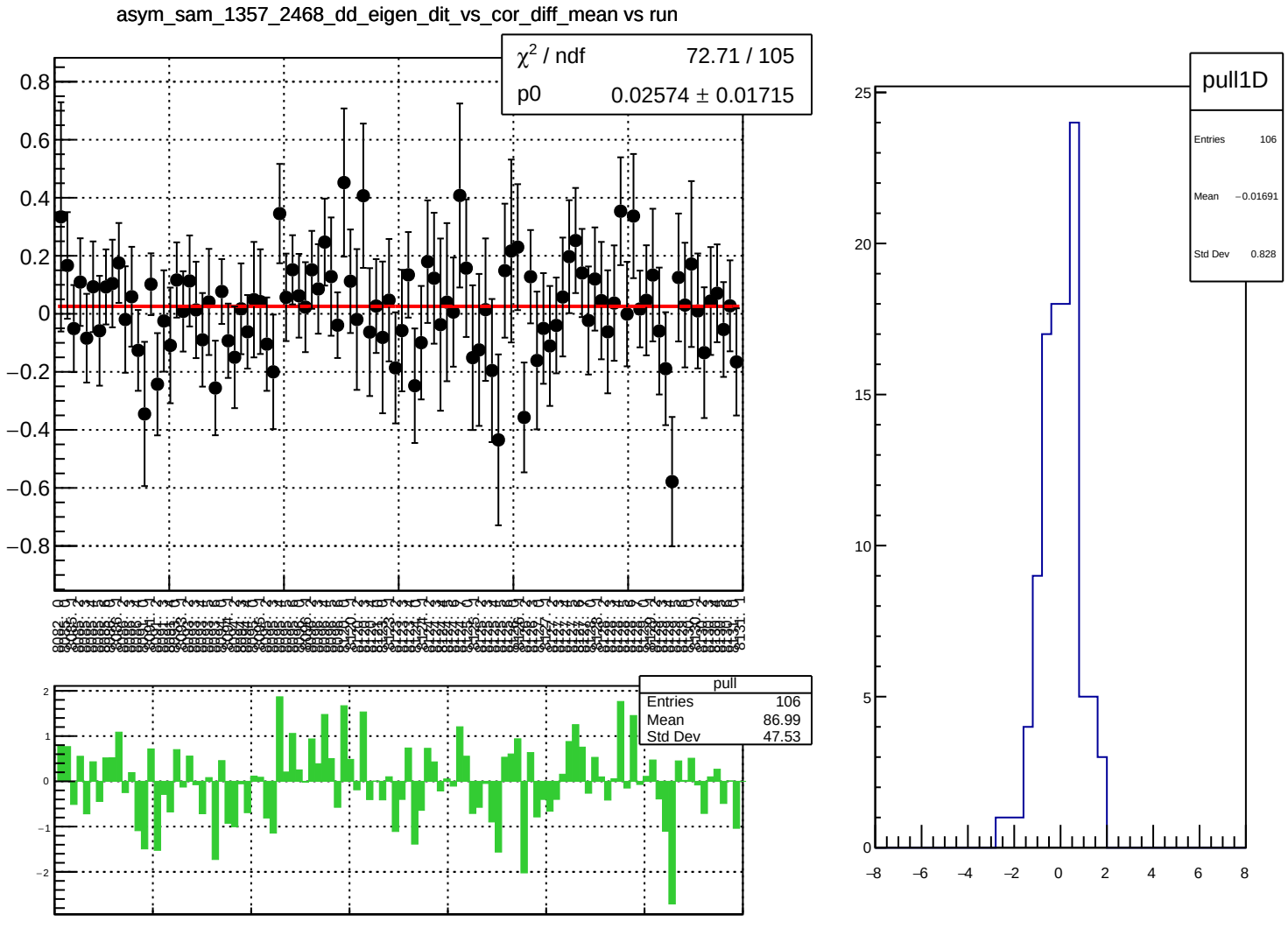

asym_sam_1357_2468_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9.569e+04 / 105
p0 16.83 ± 0.01213
30
25
20
15
10

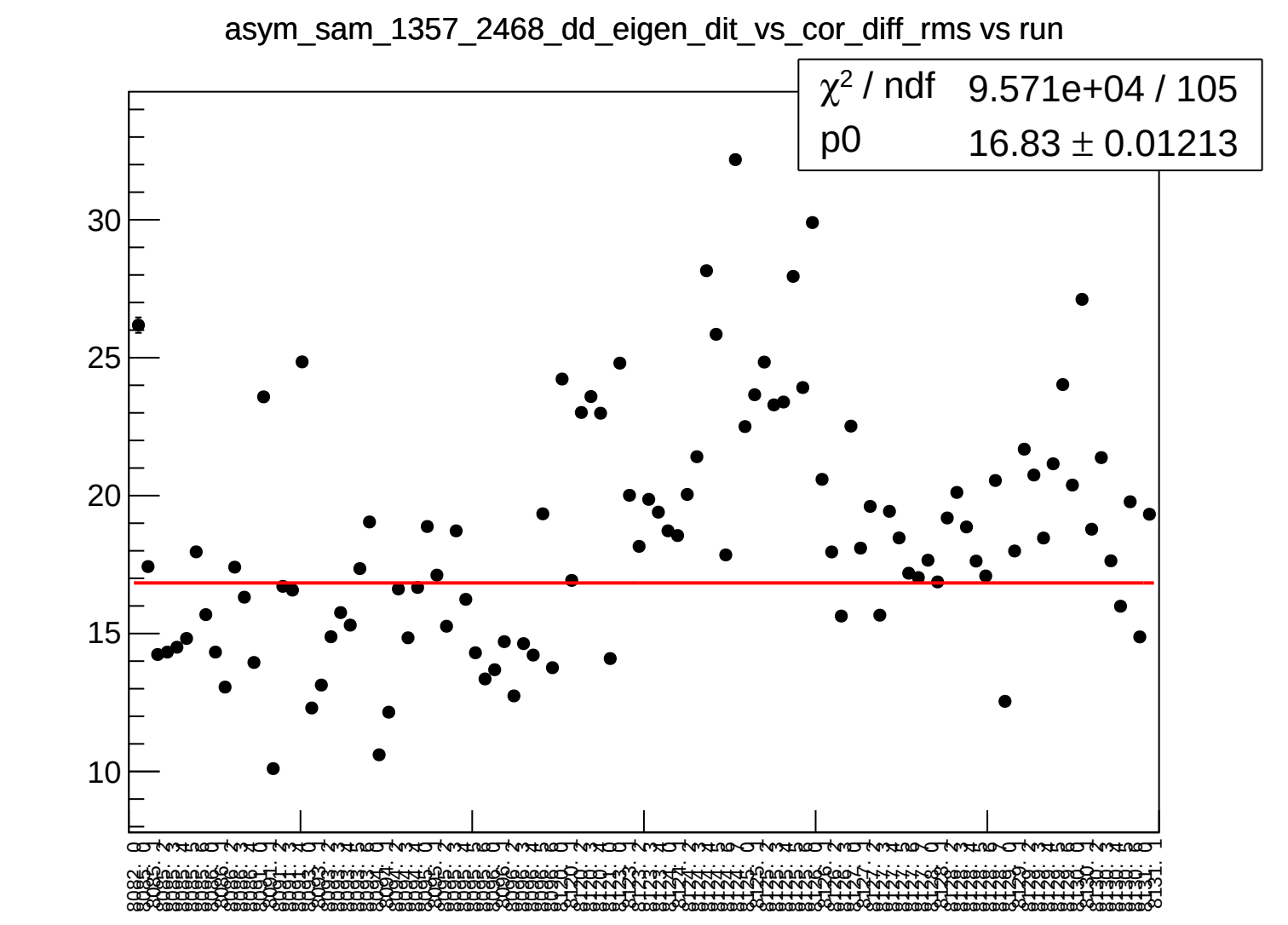

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.71 / 105
p0 0.02573 ± 0.01715
pull
Entries 106
Mean 87.01
Std Dev 47.52
pull1D
Entries 106
Mean −0.01691
Std Dev 0.828

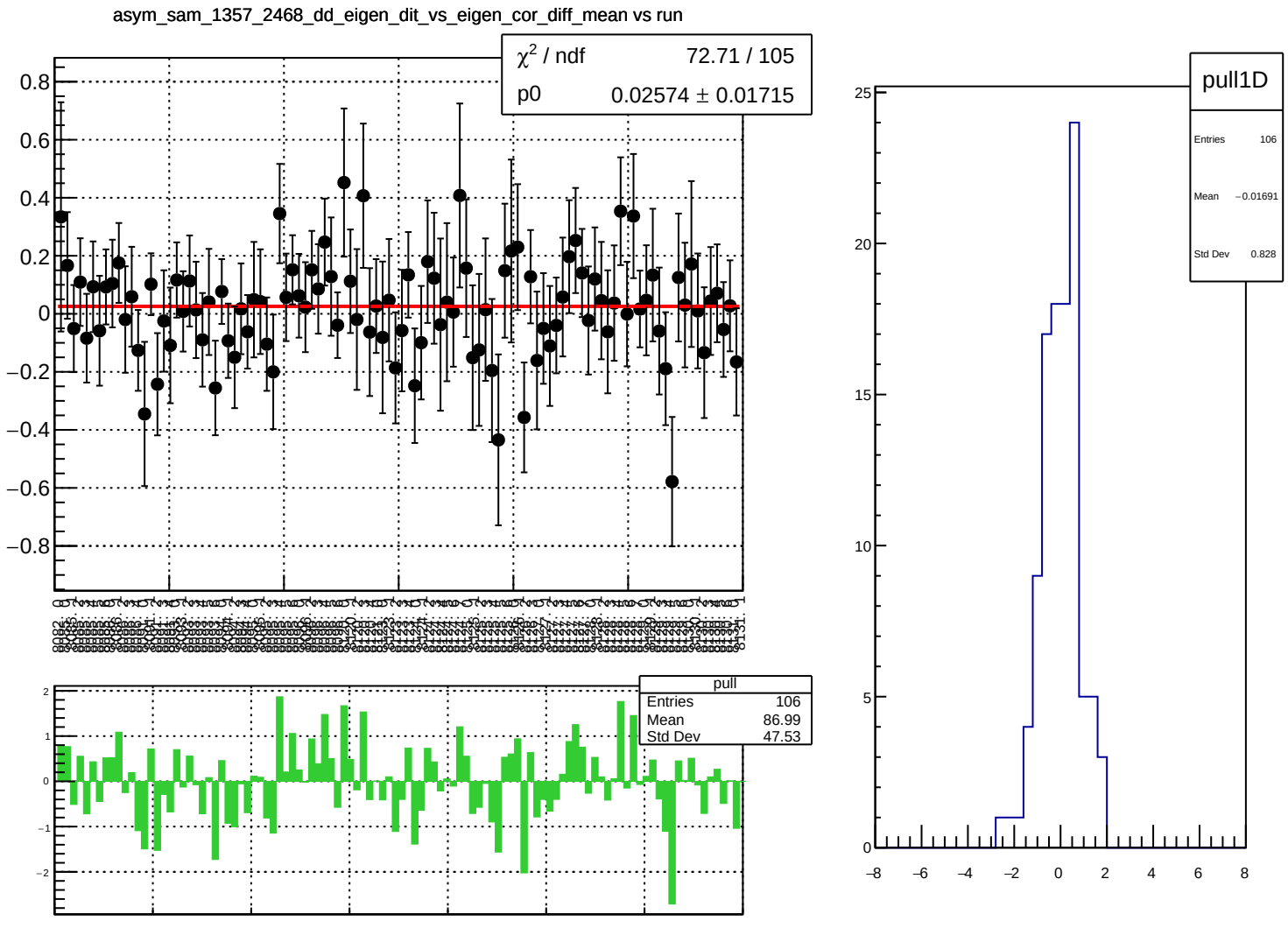

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.569e+04 / 105
p0 16.83 ± 0.01213
30
25
20
15
10

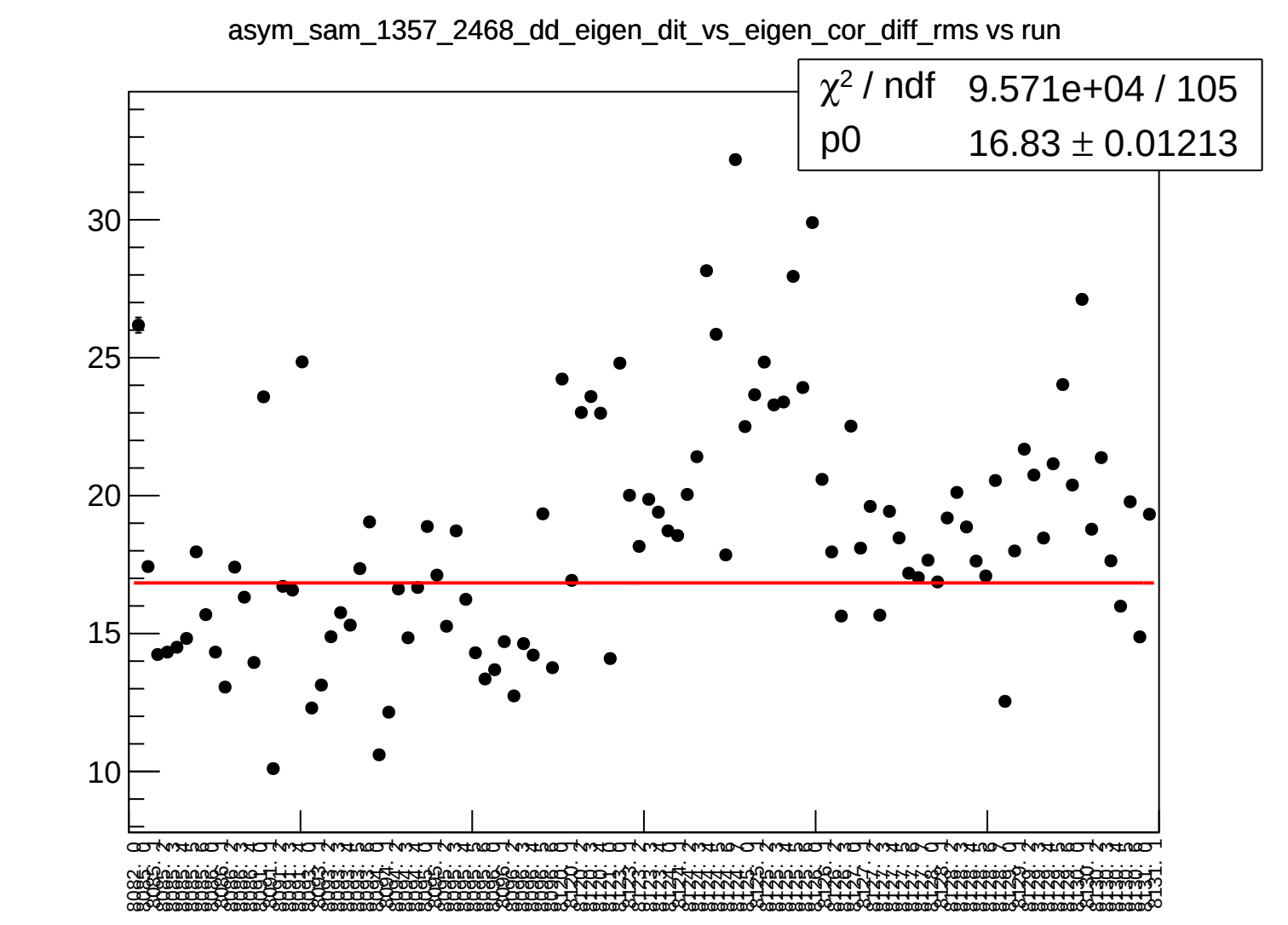

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 66.59 / 104
p0 2.978e−06 ± 1.913e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 105
Mean 100.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 105
Mean 0.004911
Std Dev 0.7963
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

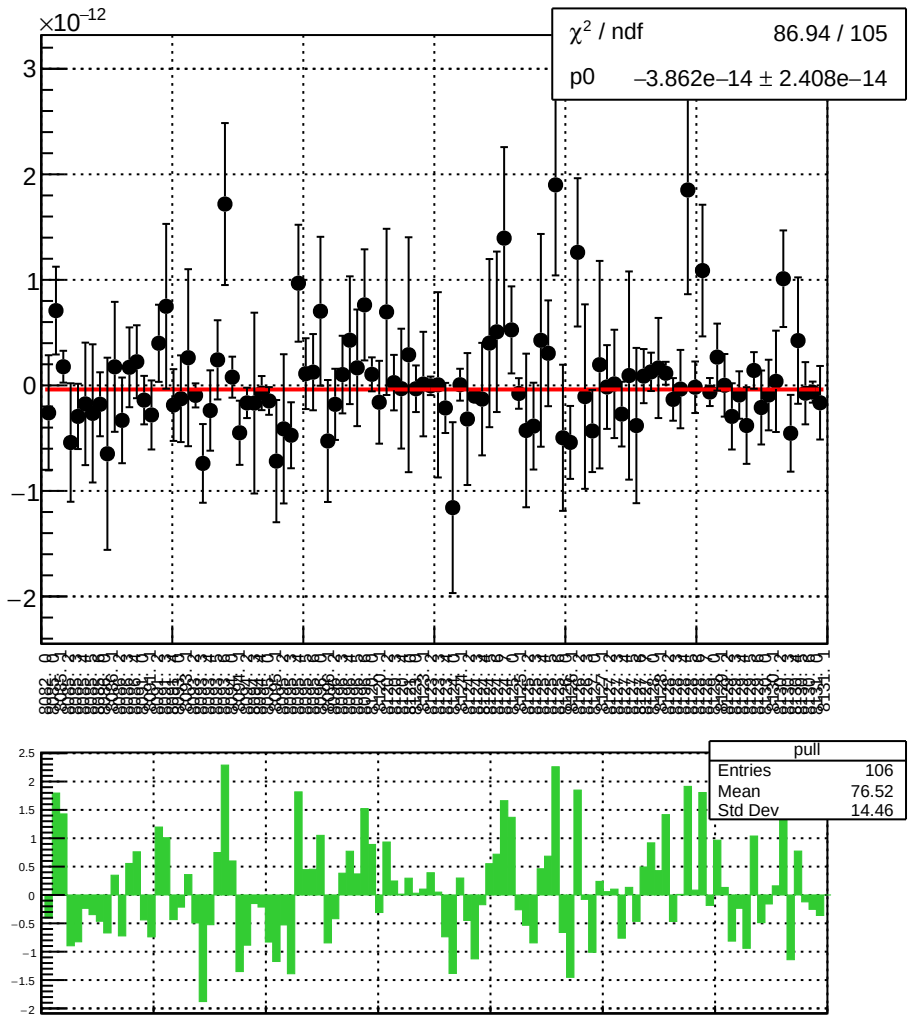

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.3e+05 / 104
p0 0.001807 ± 1.352e−06
0.0035
0.003
0.0025
0.002
0.0015

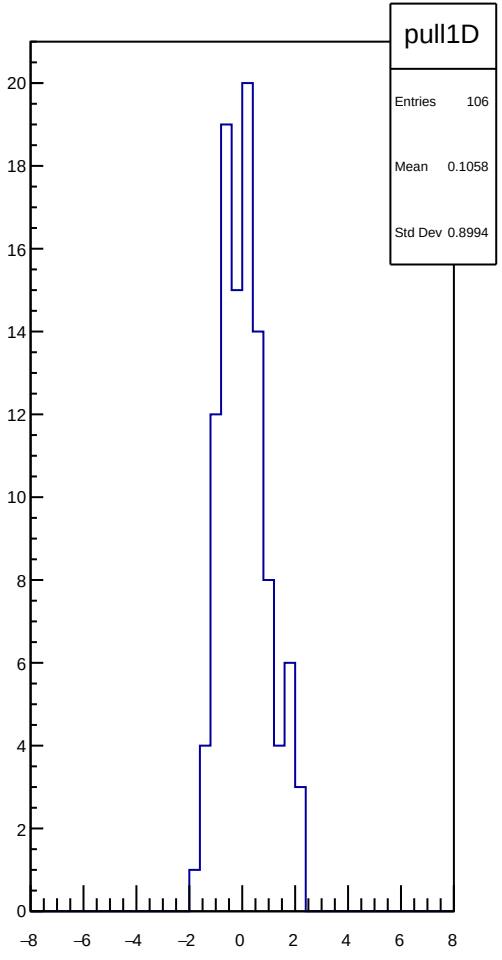

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 72.71 / 105
p0 0.02574 ± 0.01715
pull
Entries 106
Mean 86.99
Std Dev 47.53
pull1D
Entries 106
Mean −0.01691
Std Dev 0.828

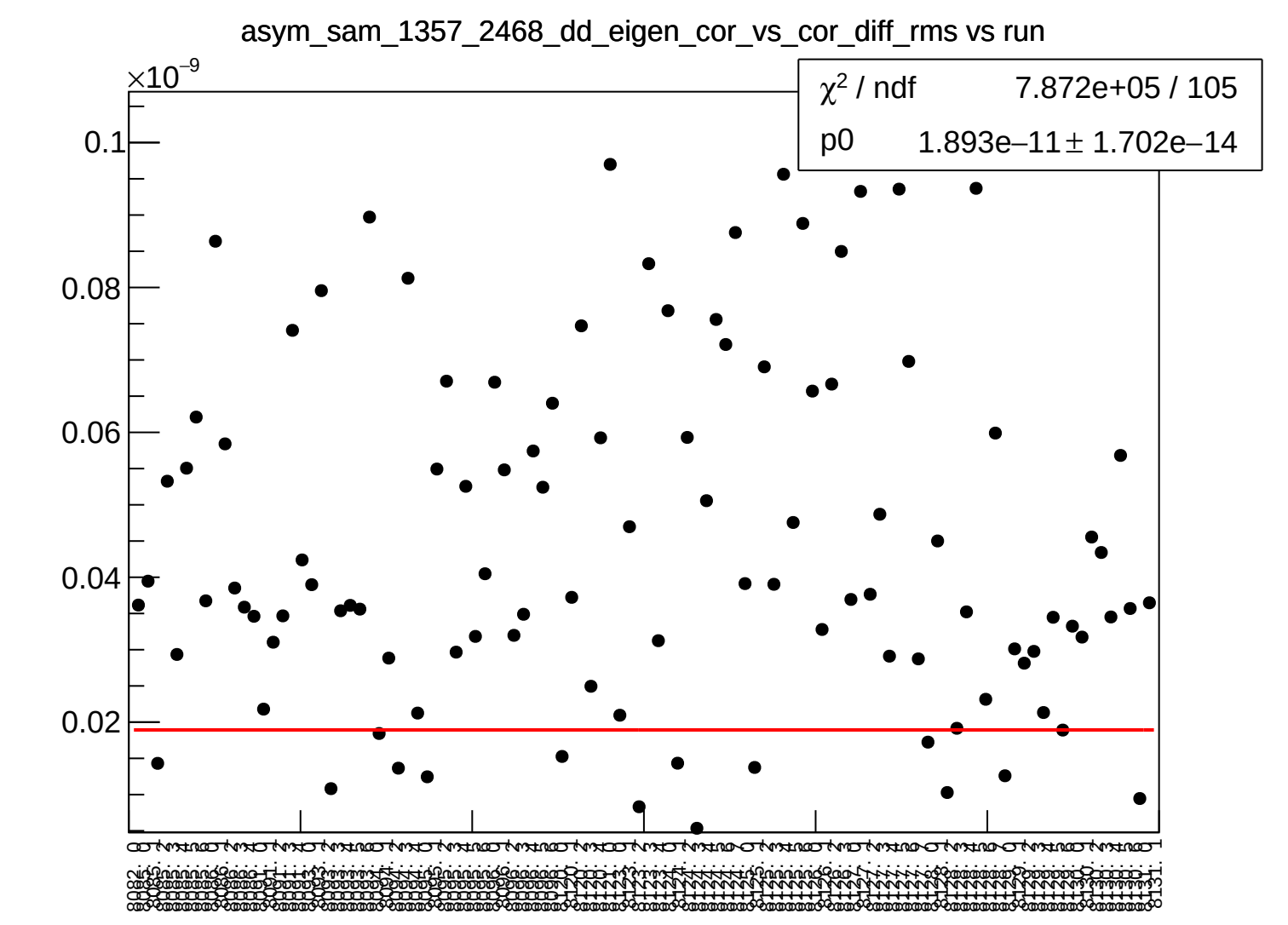

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.571e+04 / 105
p0 16.83 ± 0.01213
30
25
20
15
10

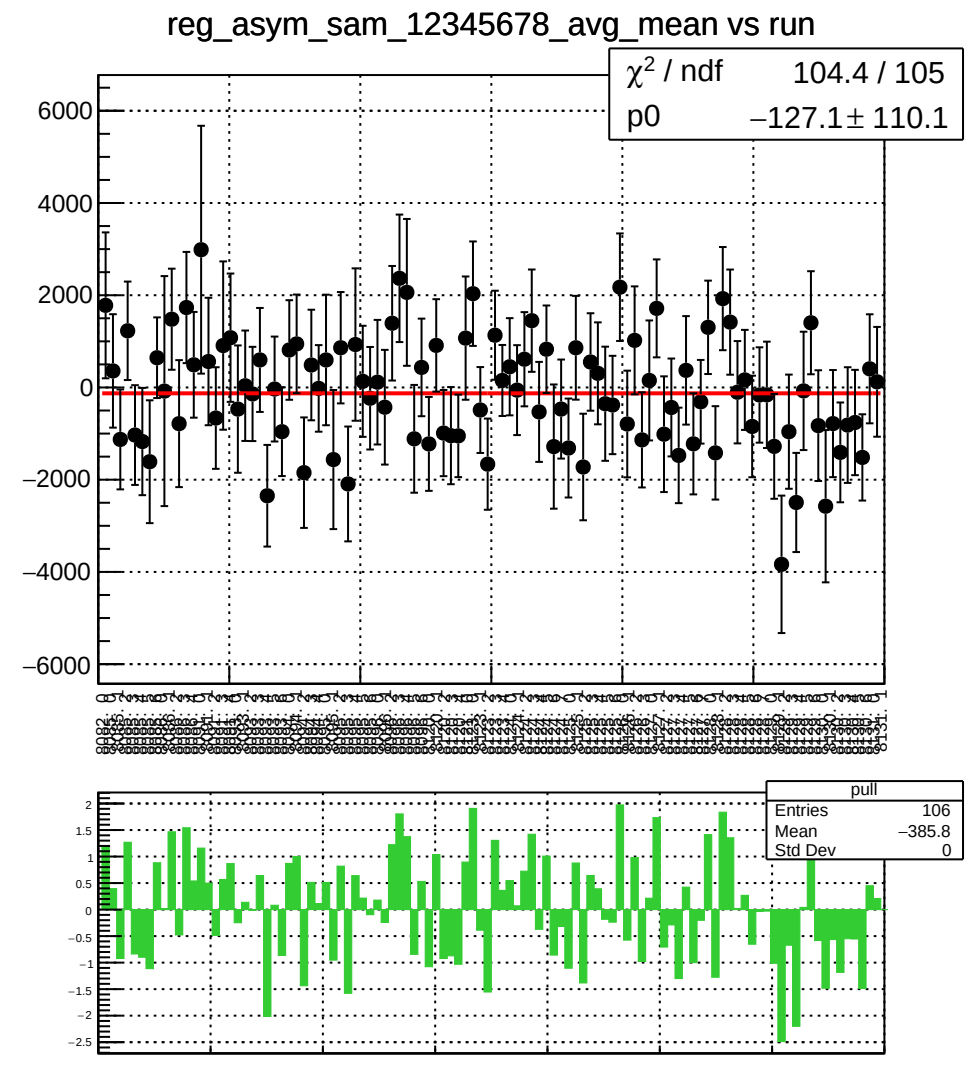

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 72.71 / 105
p0 0.02574 ± 0.01715
pull
Entries 106
Mean 86.99
Std Dev 47.53
pull1D
Entries 106
Mean −0.01691
Std Dev 0.828

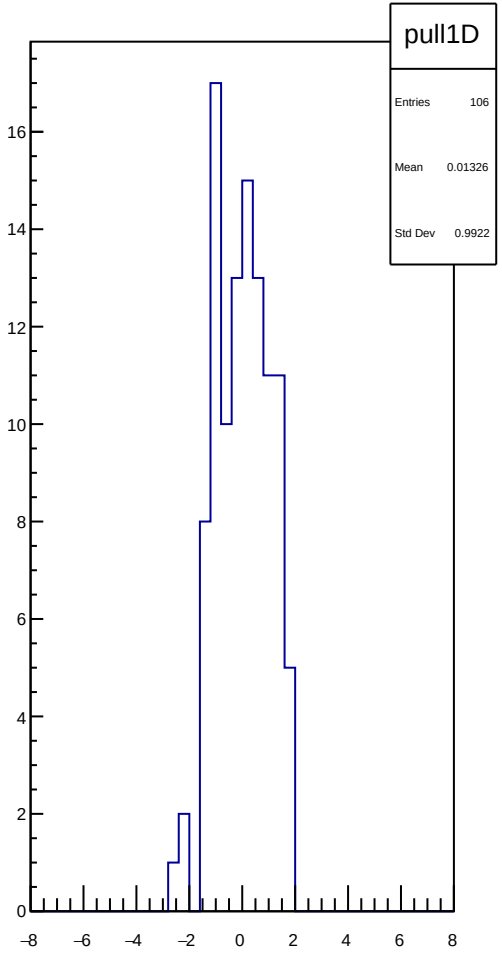

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.571e+04 / 105
p0 16.83 ± 0.01213
30
25
20
15
10

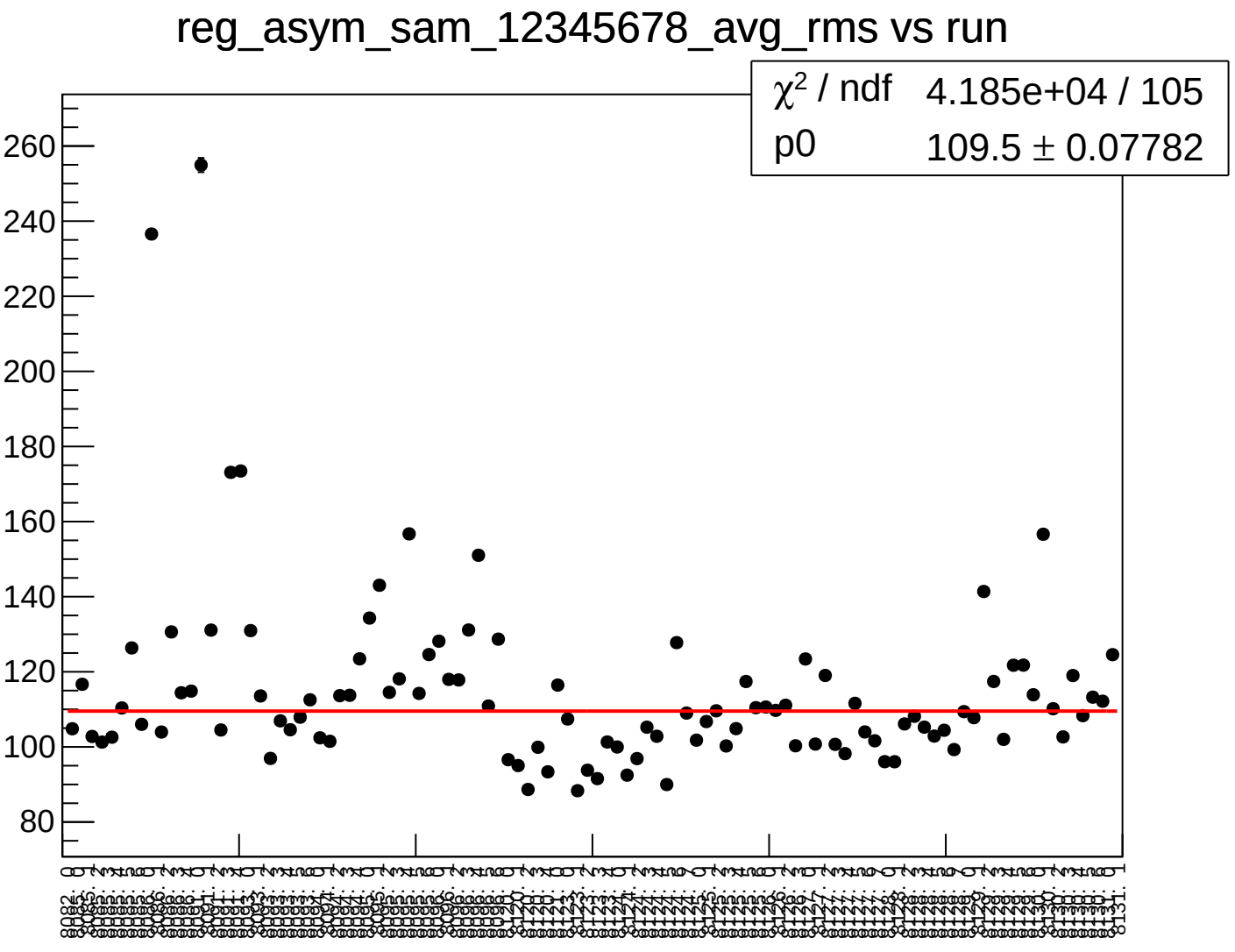

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.94 / 105
p0 −3.862e−14 ± 2.408e−14
pull
Entries 106
Mean 76.52
Std Dev 14.46

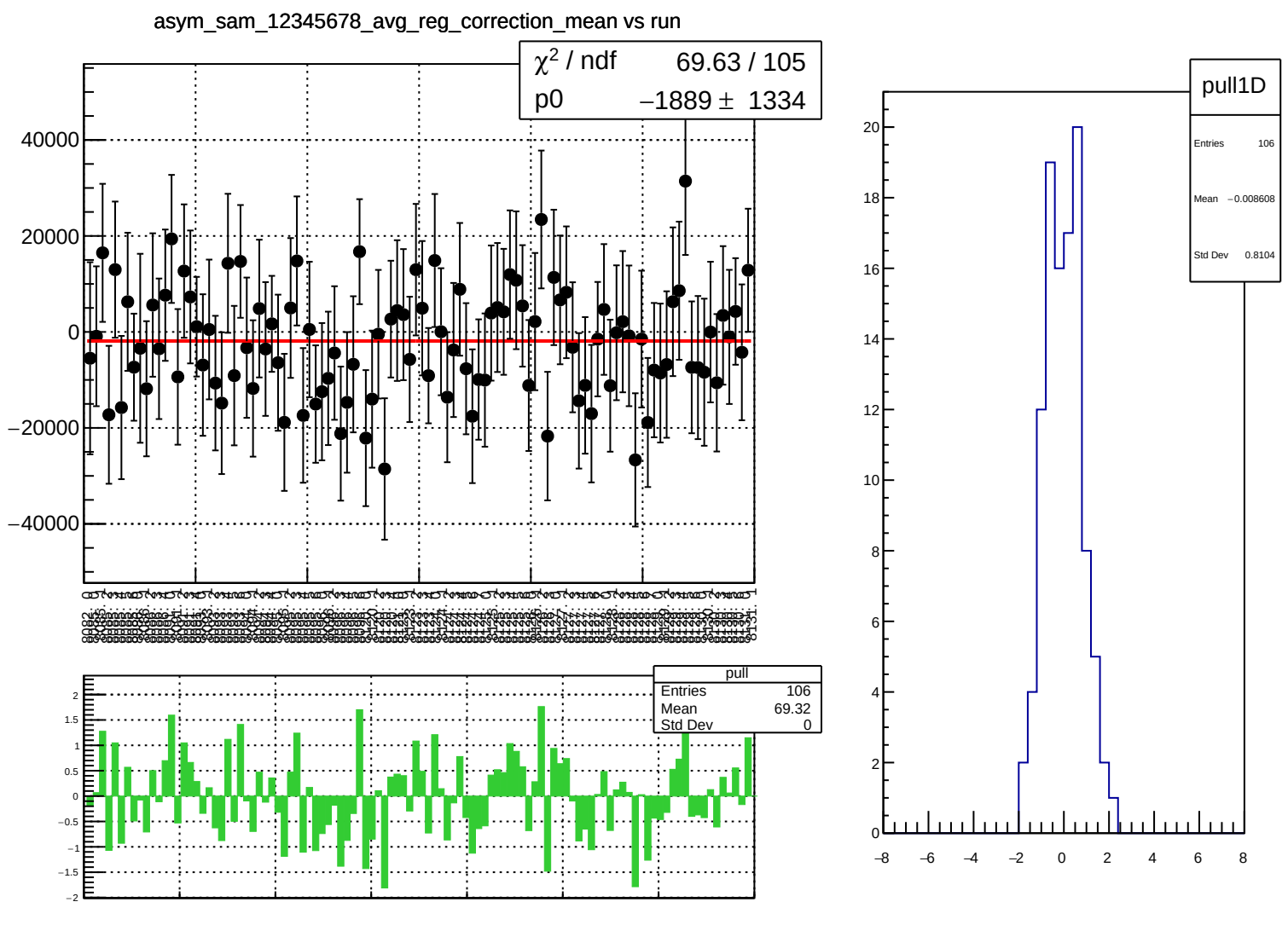

pull1D
Entries 106
Mean 0.1058
Std Dev 0.8994

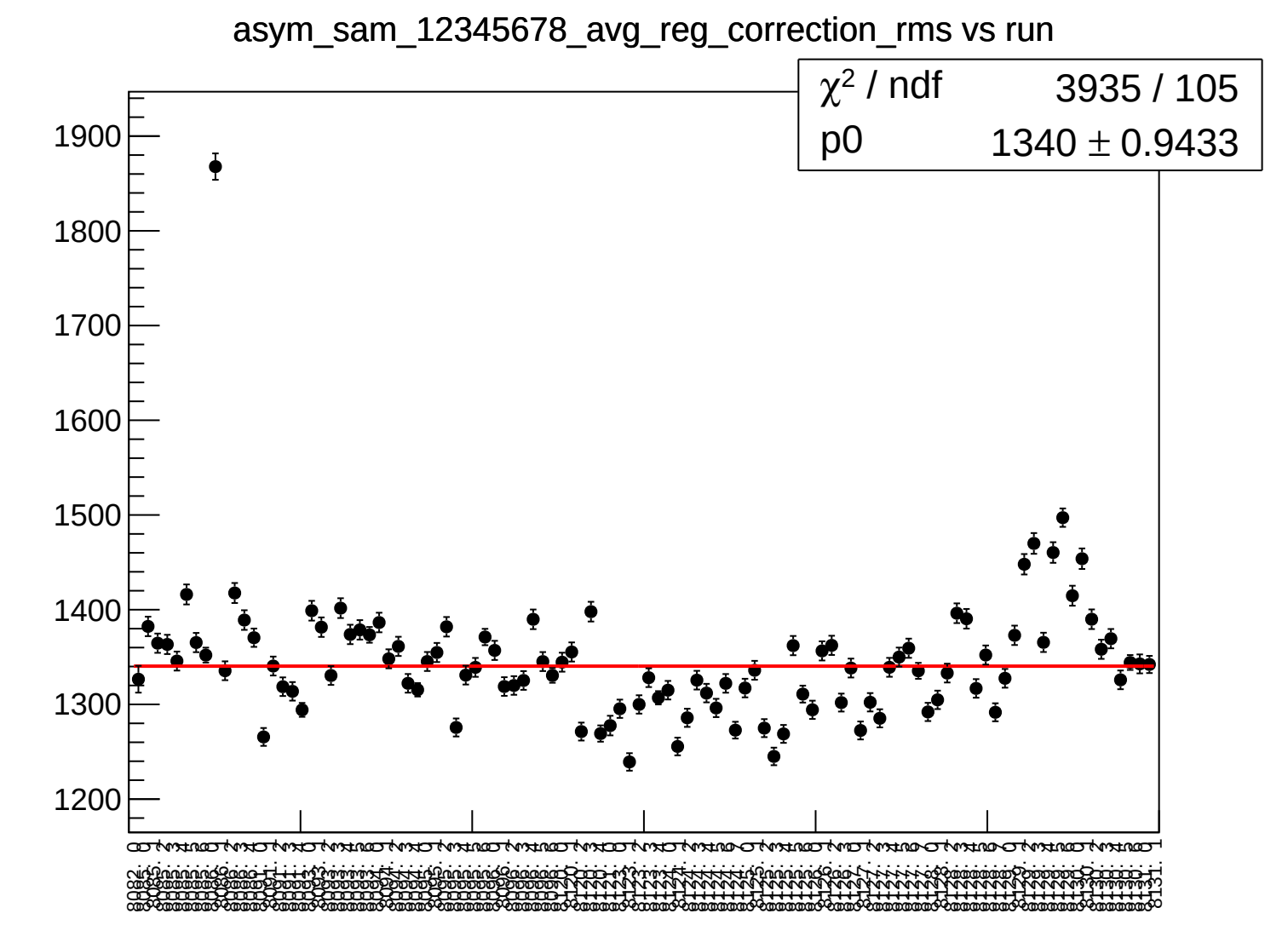

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.872e+05 / 105
p0 1.893e−11 ± 1.702e−14
0.1
0.08
0.06
0.04
0.02

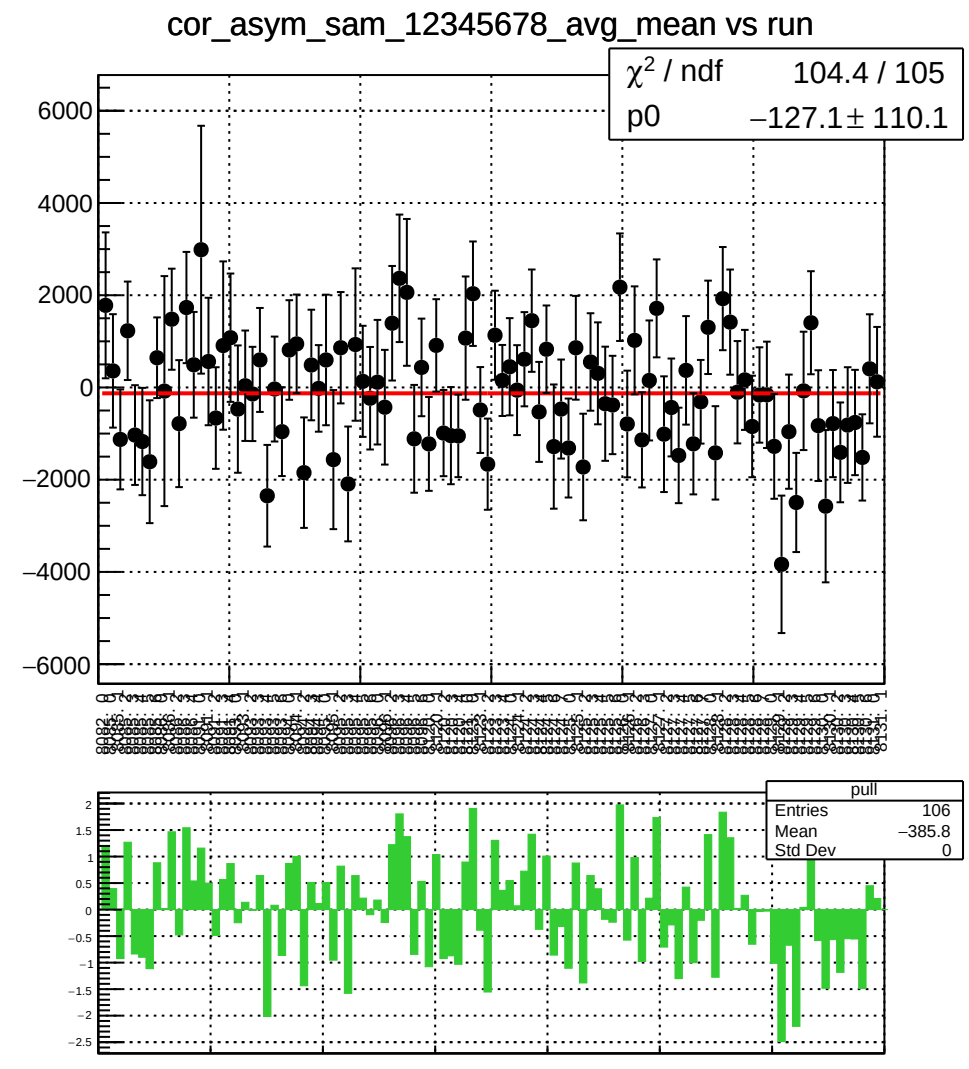

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 104.4 / 105
p0 −127.1 ± 110.1
pull
Entries 106
Mean −385.8
Std Dev 0

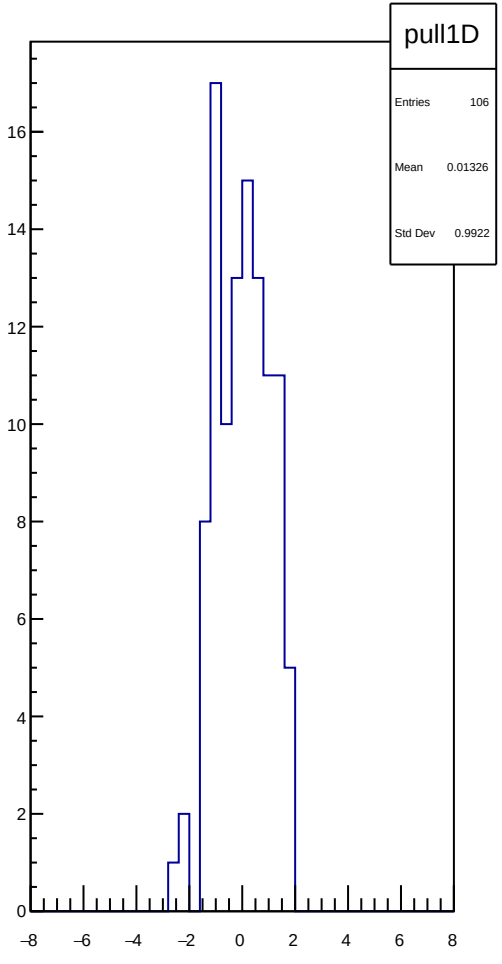

pull1D
Entries 106
Mean 0.01326
Std Dev 0.9922

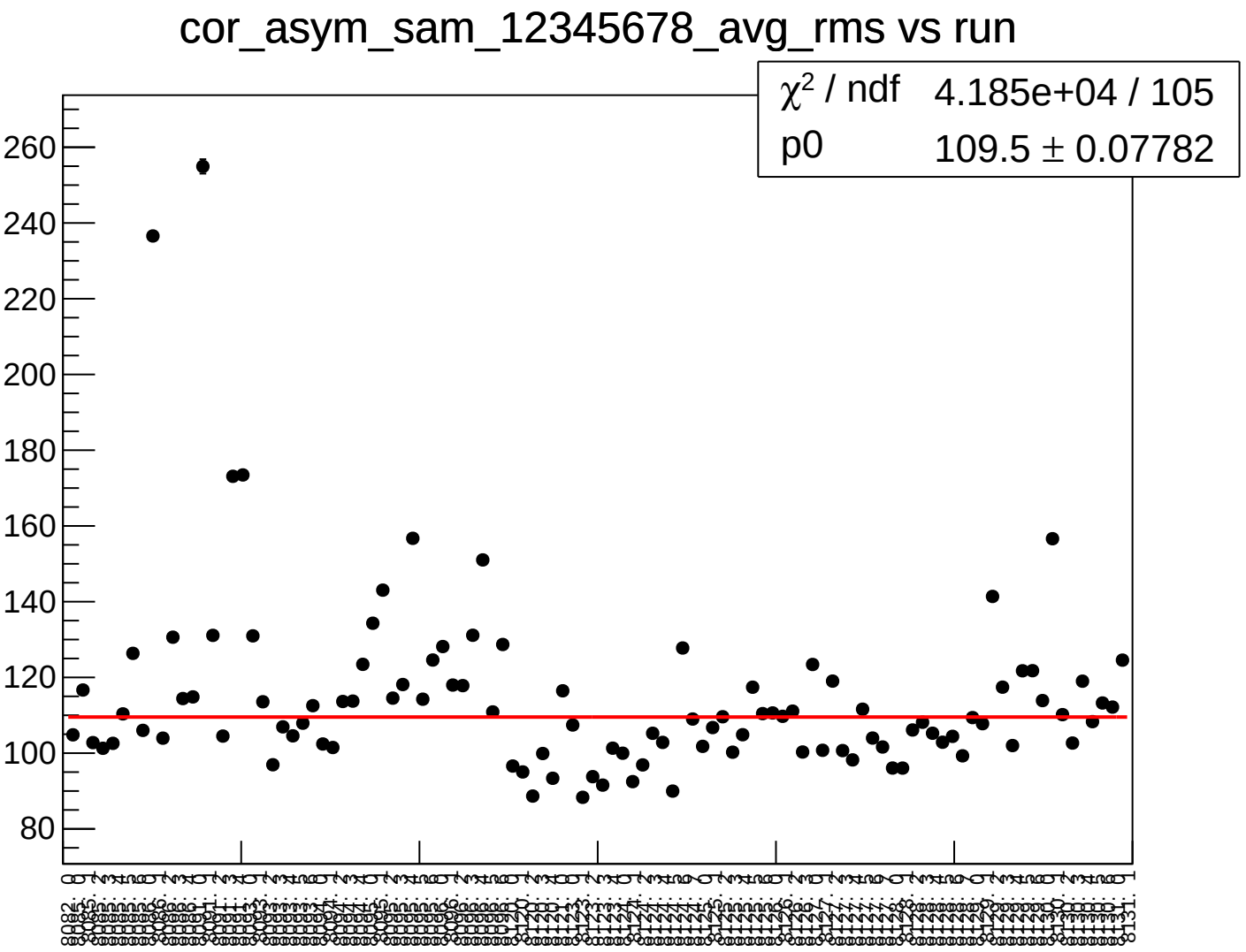

reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 4.185e+04 / 105
p0 109.5 ± 0.07782
260
240
220
200
180
160
140
120
100
80

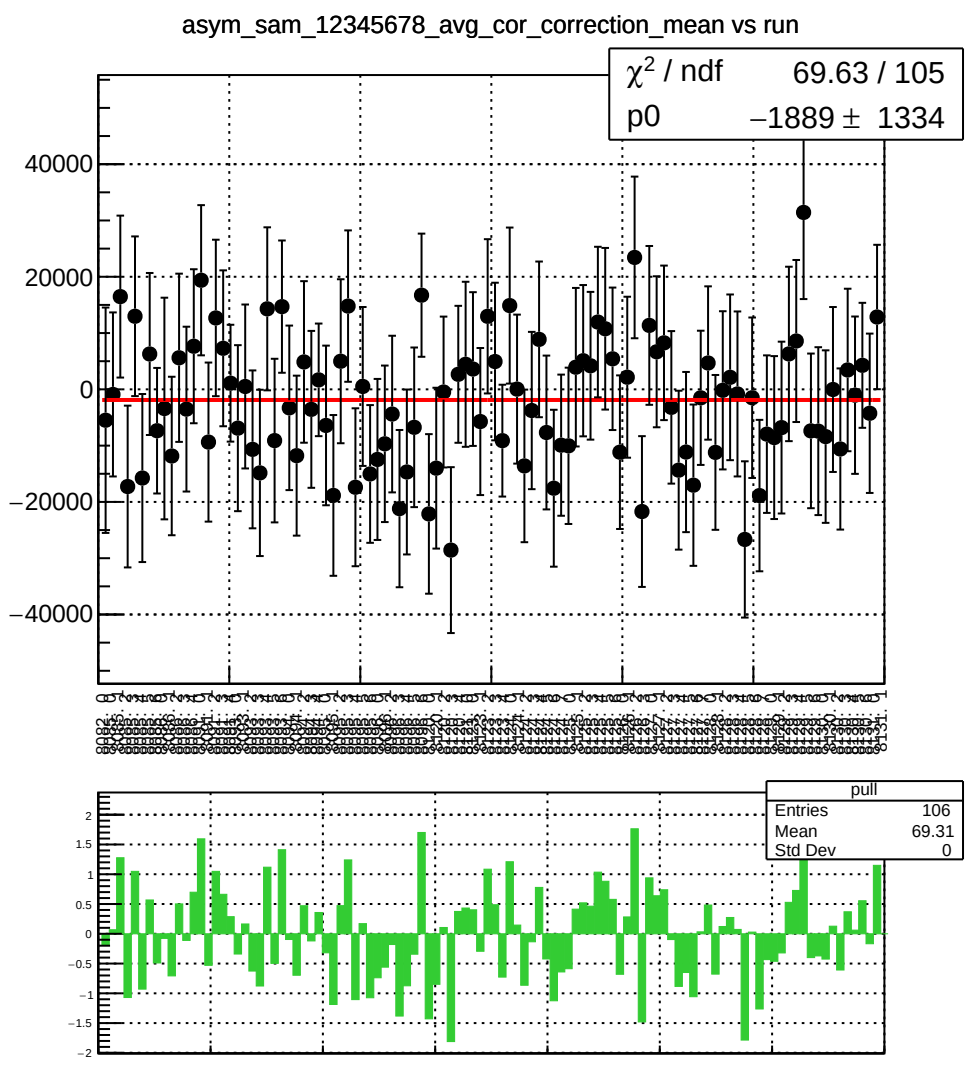

asym_sam_12345678_avg_reg_correction_mean vs run
χ² / ndf 69.63 / 105
p0 −1889 ± 1334
40000
20000
0
−20000
−40000
pull
Entries 106
Mean 69.32
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 106
Mean −0.008608
Std Dev 0.8104
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

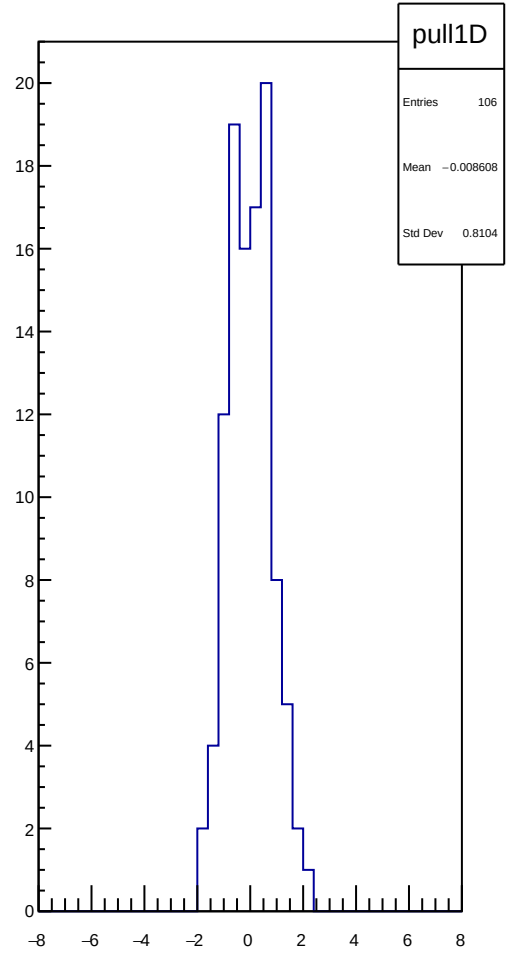

asym_sam_12345678_avg_reg_correction_rms vs run
χ² / ndf 3935 / 105
p0 1340 ± 0.9433
1900
1800
1700
1600
1500
1400
1300
1200

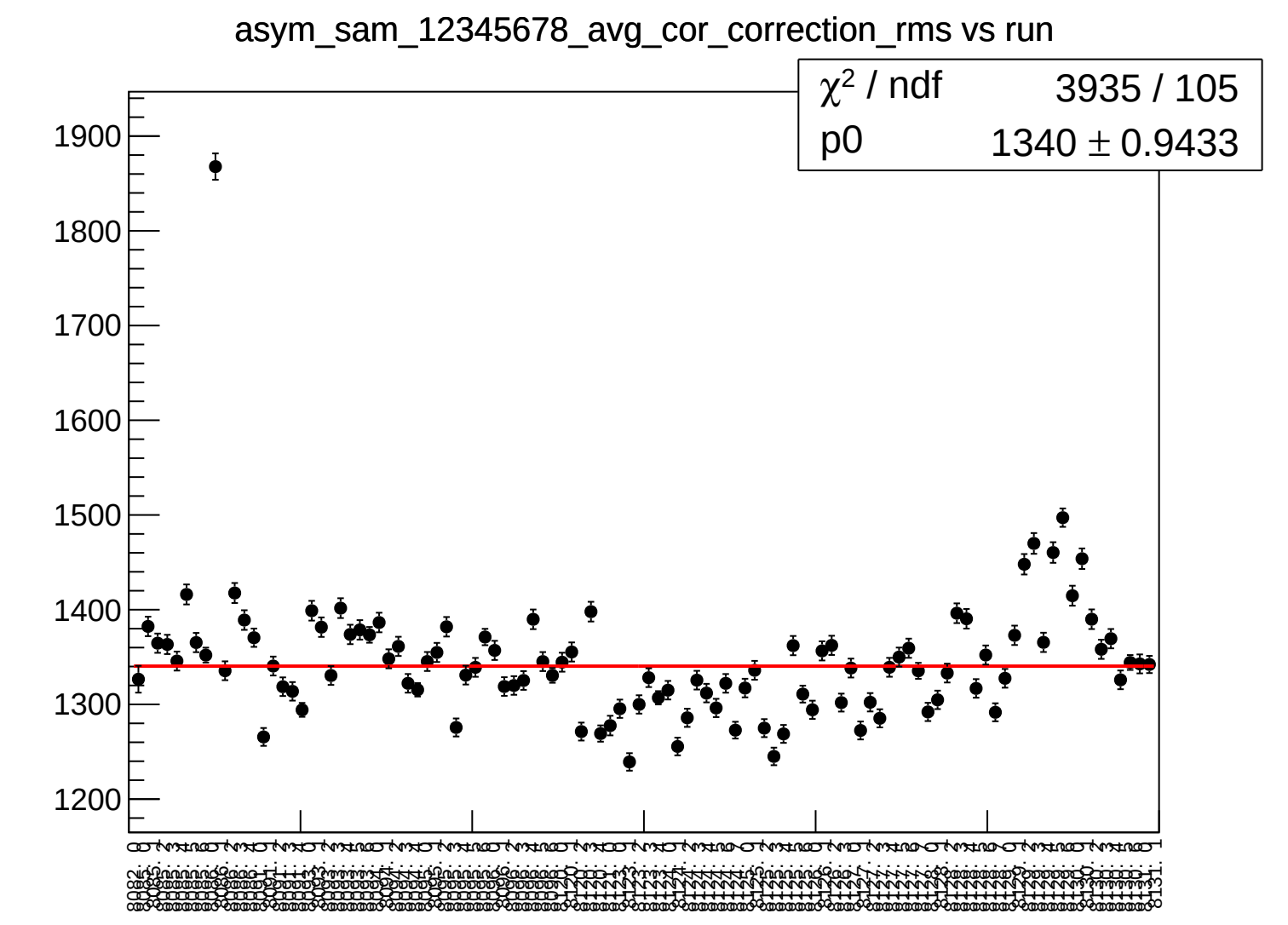

cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 104.4 / 105
p0 −127.1 ± 110.1
pull
Entries 106
Mean −385.8
Std Dev 0

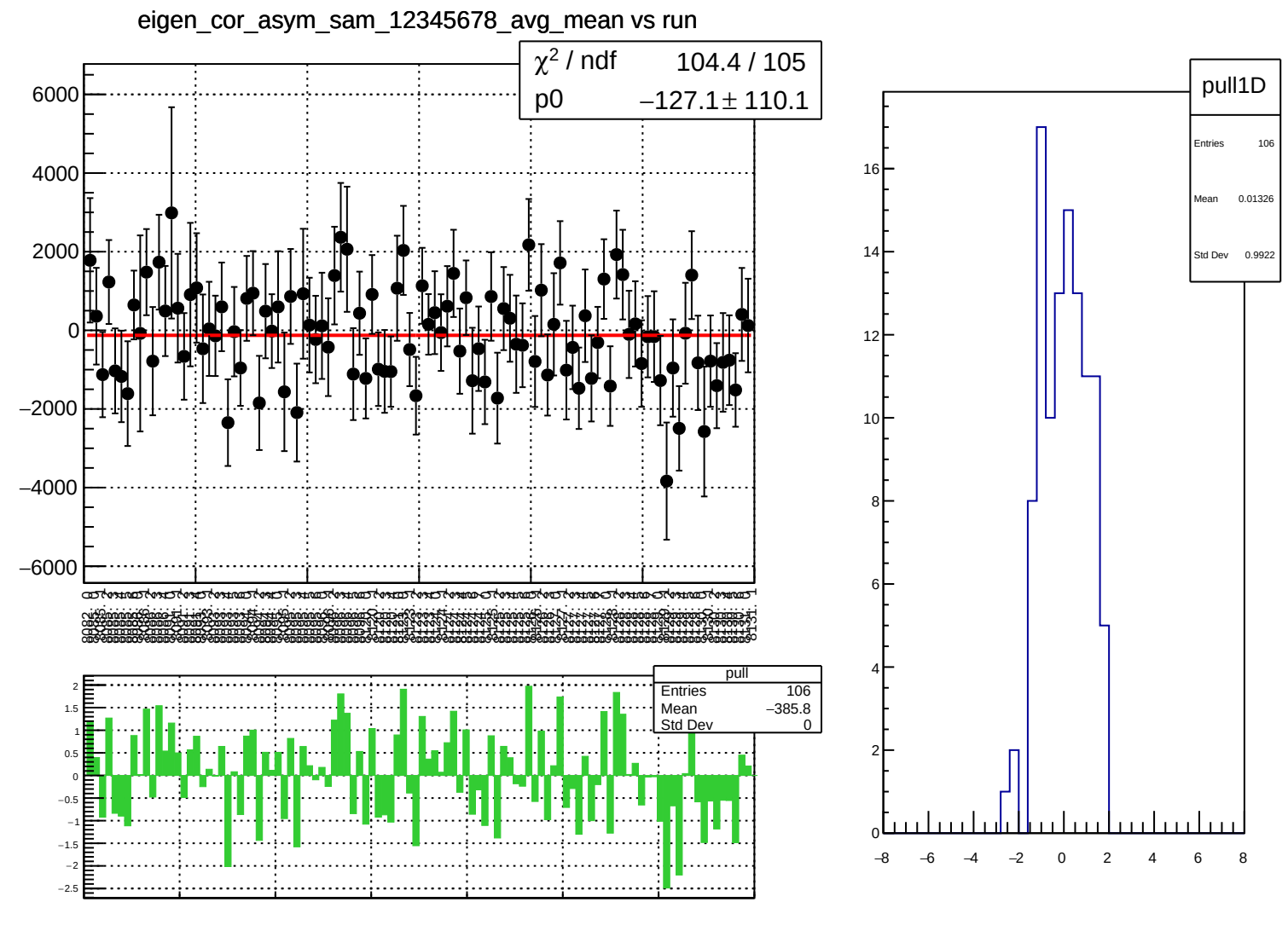

pull1D
Entries 106
Mean 0.01326
Std Dev 0.9922

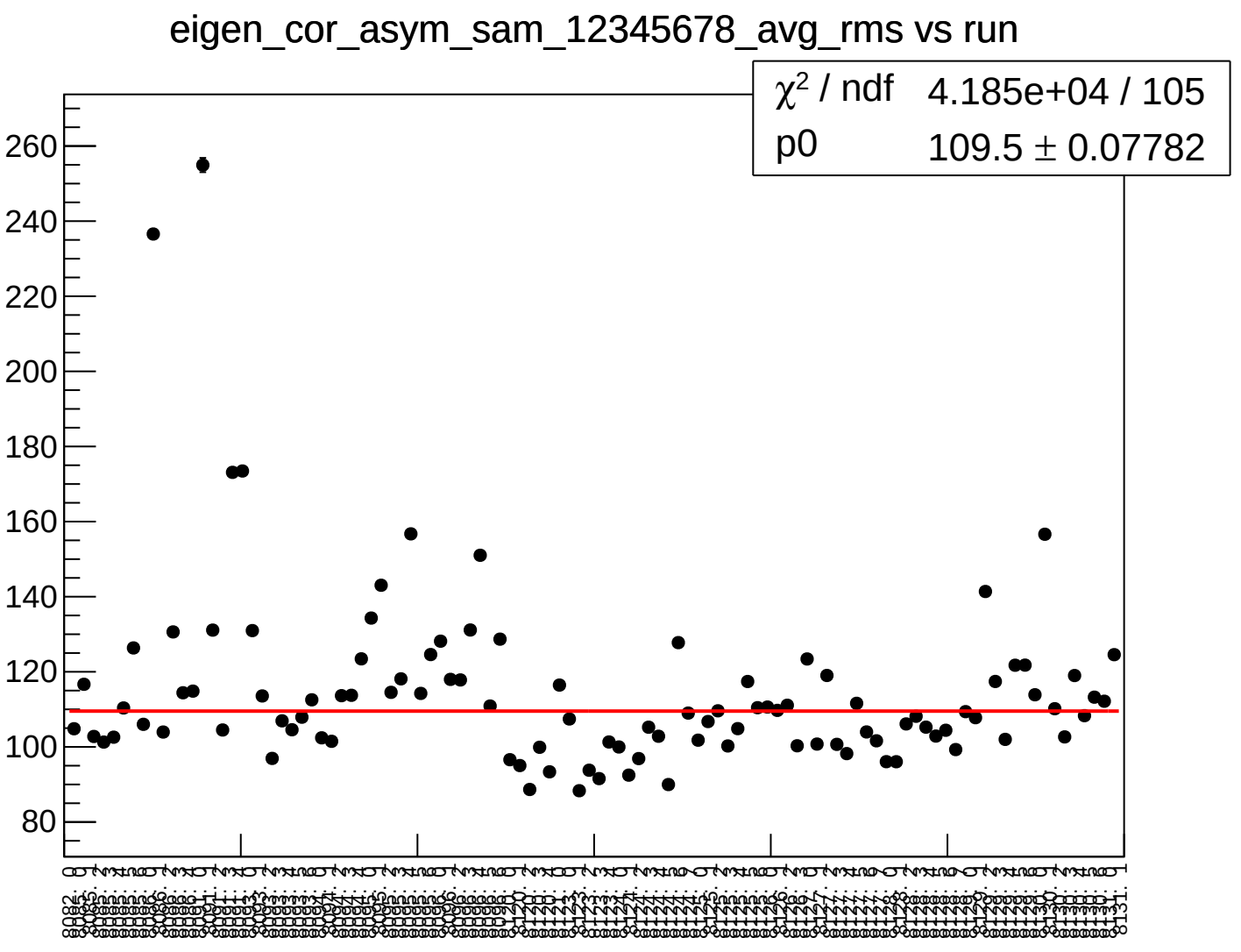

cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 4.185e+04 / 105
p0 109.5 ± 0.07782
260
240
220
200
180
160
140
120
100
80

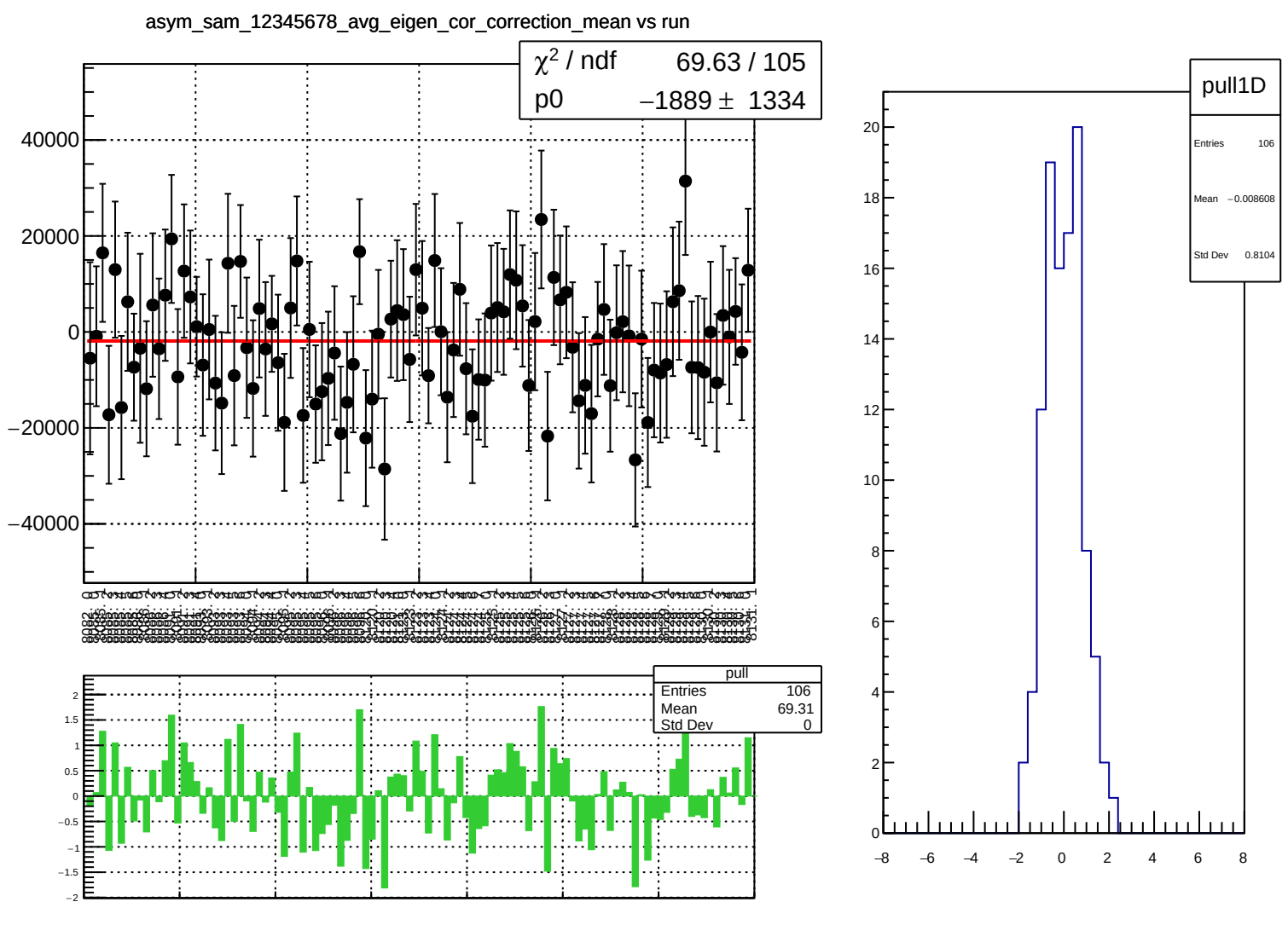

asym_sam_12345678_avg_cor_correction_mean vs run
χ² / ndf 69.63 / 105
p0 −1889 ± 1334
40000
20000
0
−20000
−40000
pull
Entries 106
Mean 69.31
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

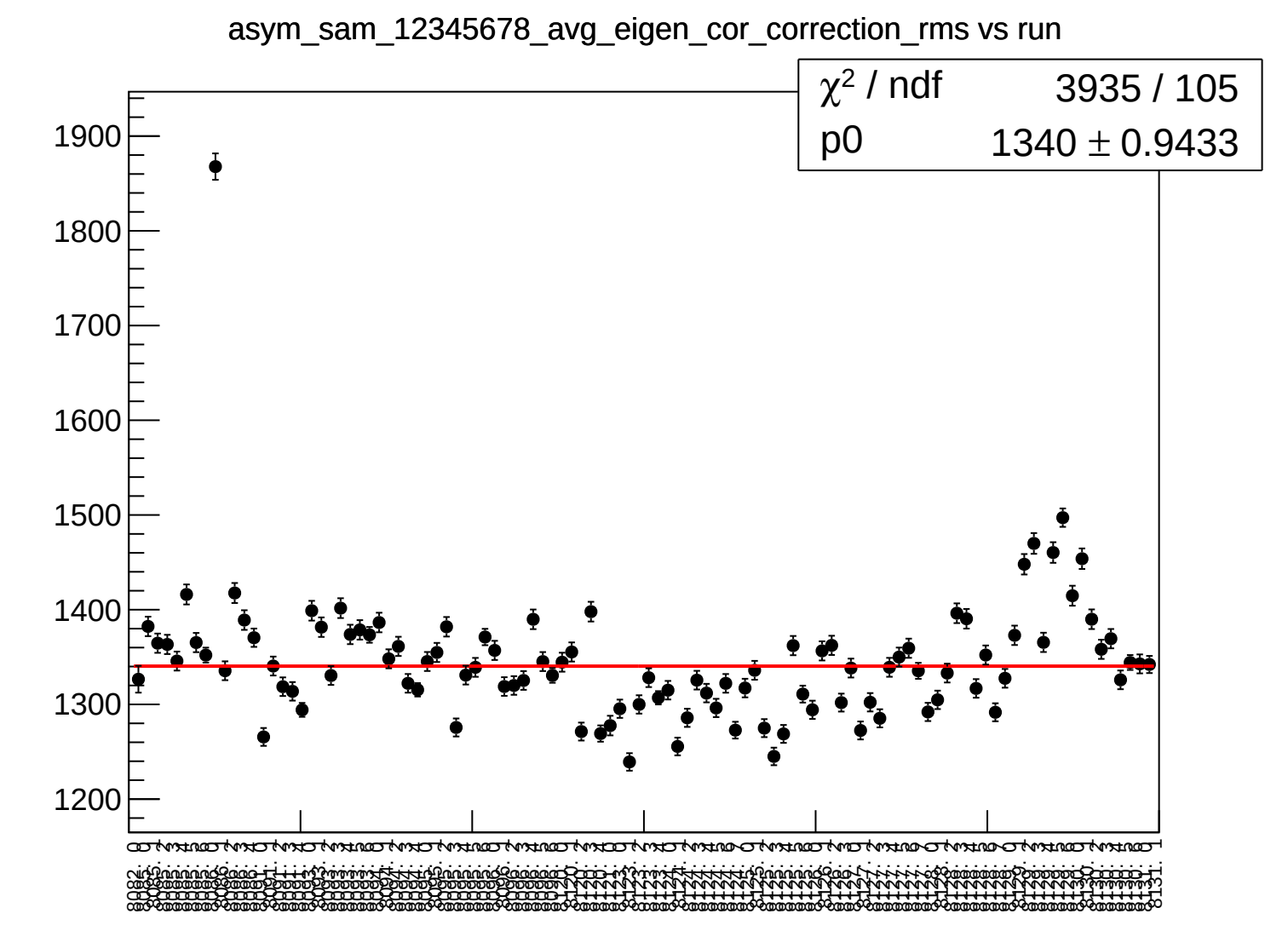

pull1D
Entries 106
Mean −0.008608
Std Dev 0.8104
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

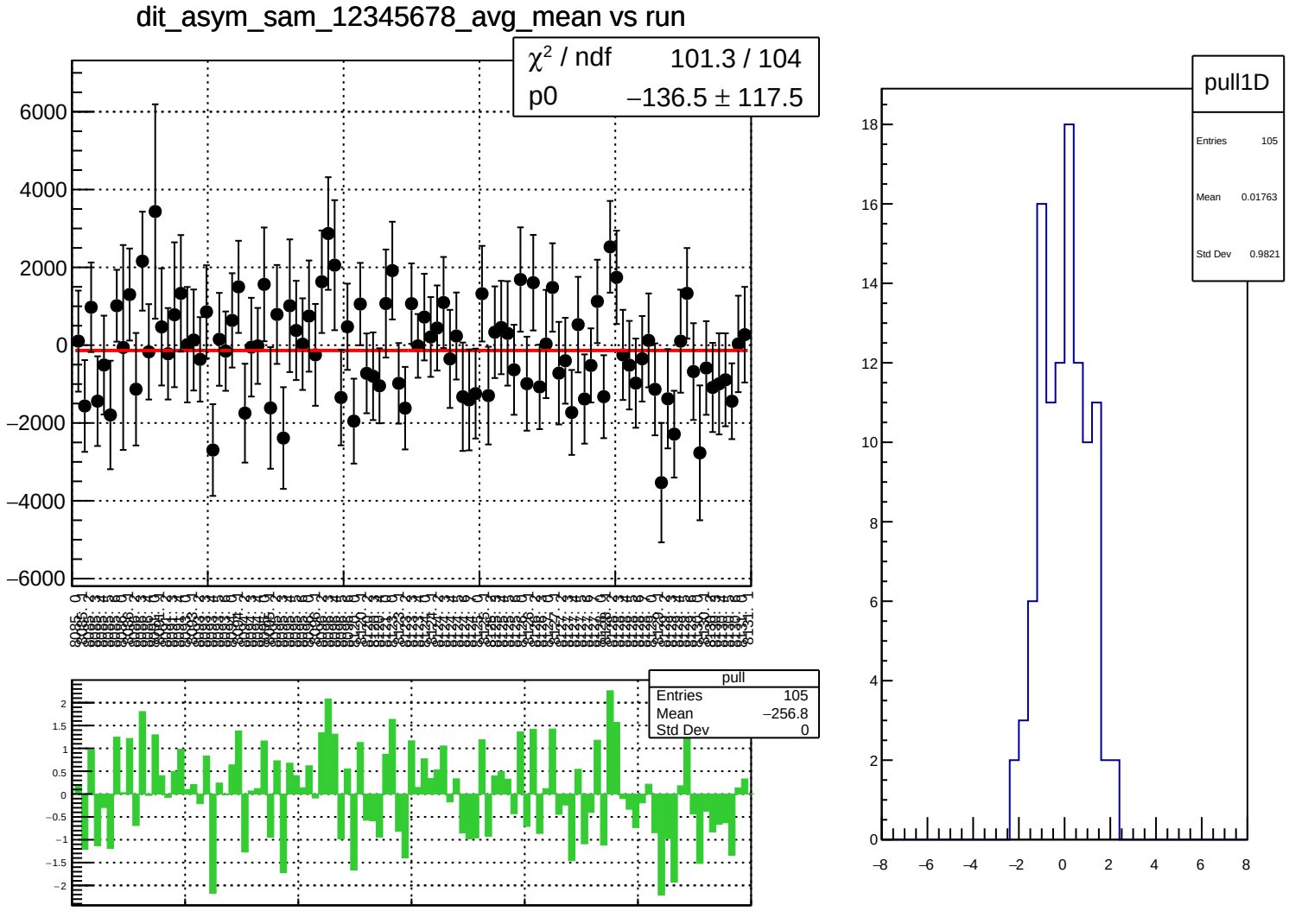

asym_sam_12345678_avg_cor_correction_rms vs run
χ² / ndf 3935 / 105
p0 1340 ± 0.9433
1900
1800
1700
1600
1500
1400
1300
1200

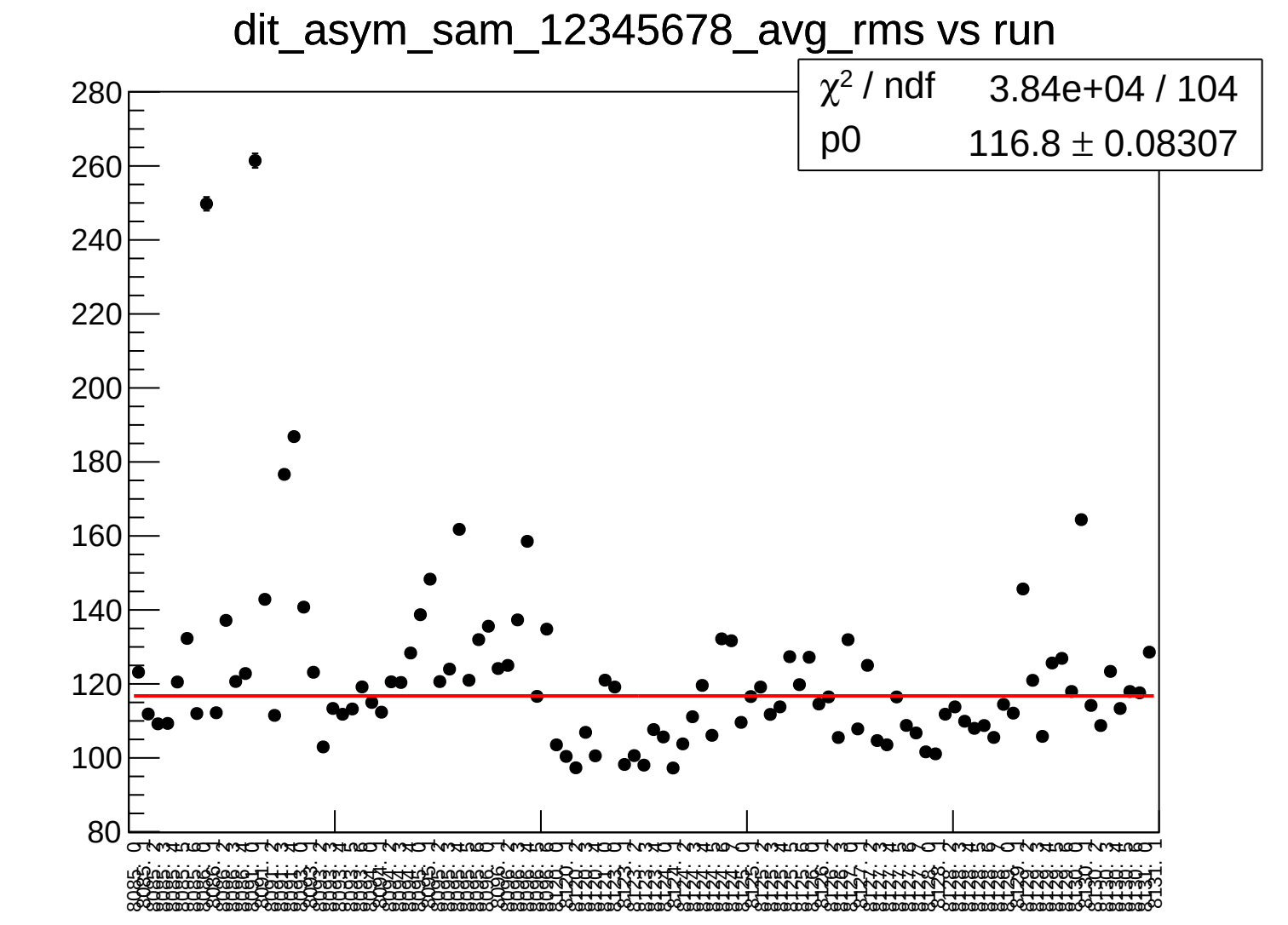

eigen_cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 104.4 / 105
p0 −127.1 ± 110.1
pull
Entries 106
Mean −385.8
Std Dev 0
pull1D
Entries 106
Mean 0.01326
Std Dev 0.9922

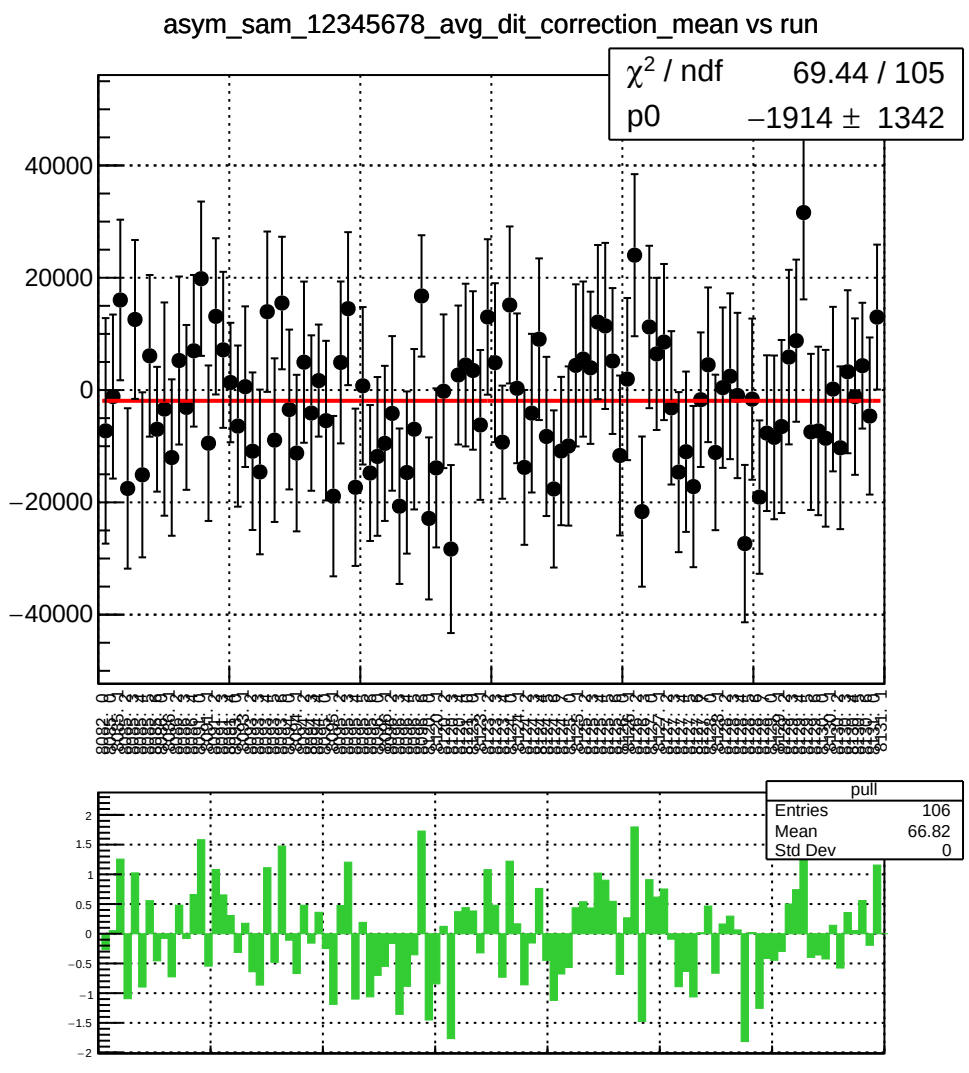

eigen_cor_asym_sam_12345678_avg_rms vs run
χ² / ndf 4.185e+04 / 105
p0 109.5 ± 0.07782
260
240
220
200
180
160
140
120
100
80

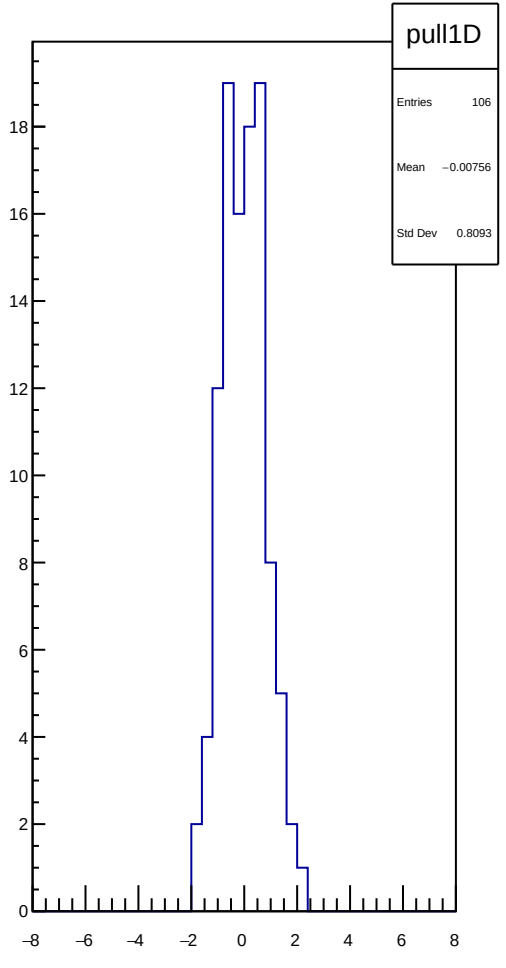

asym_sam_12345678_avg_eigen_cor_correction_mean vs run
χ² / ndf 69.63 / 105
p0 −1889 ± 1334
40000
20000
0
−20000
−40000
pull
Entries 106
Mean 69.31
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 106
Mean −0.008608
Std Dev 0.8104
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

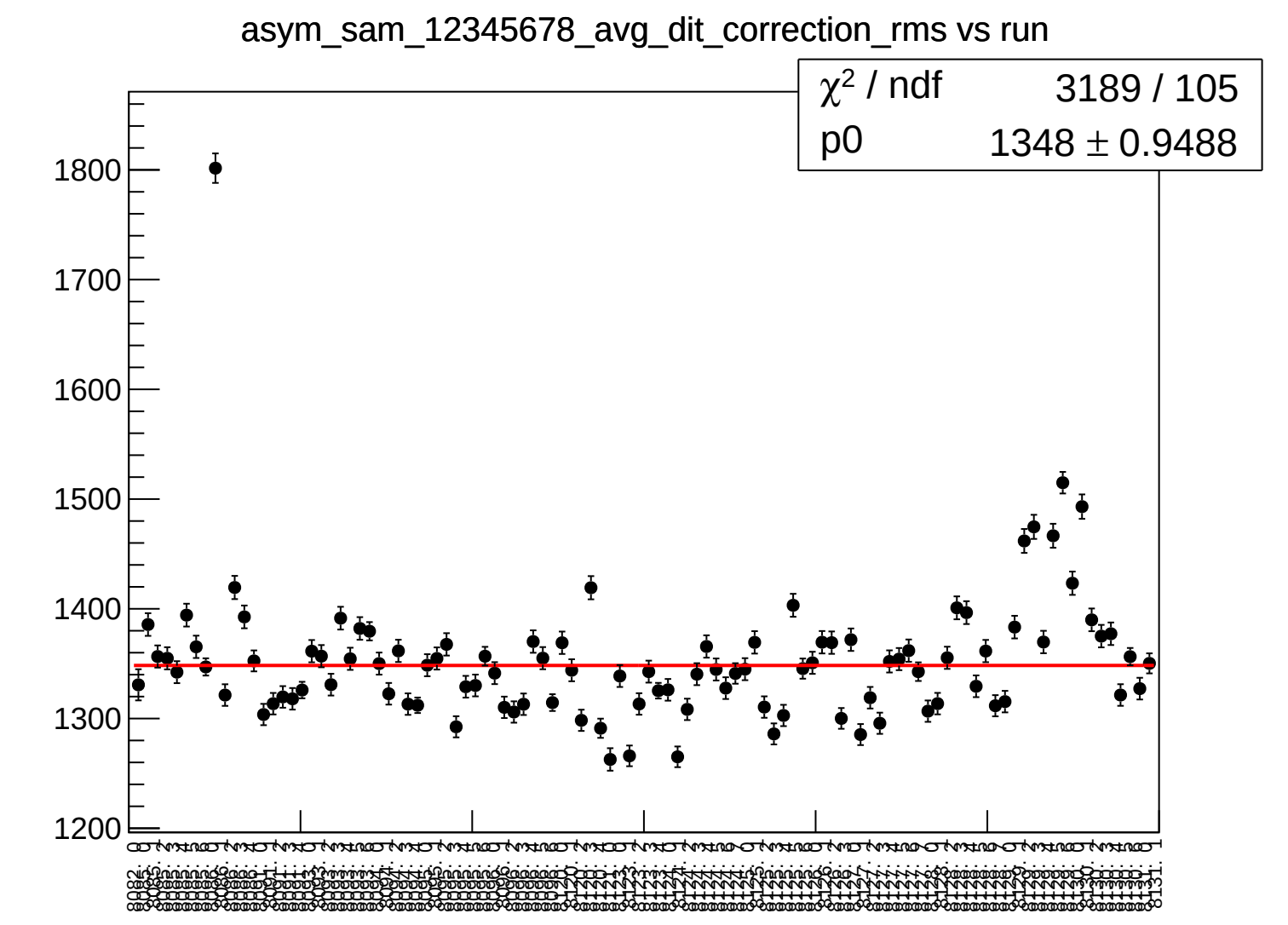

asym_sam_12345678_avg_eigen_cor_correction_rms vs run
χ² / ndf 3935 / 105
p0 1340 ± 0.9433
1900
1800
1700
1600
1500
1400
1300
1200

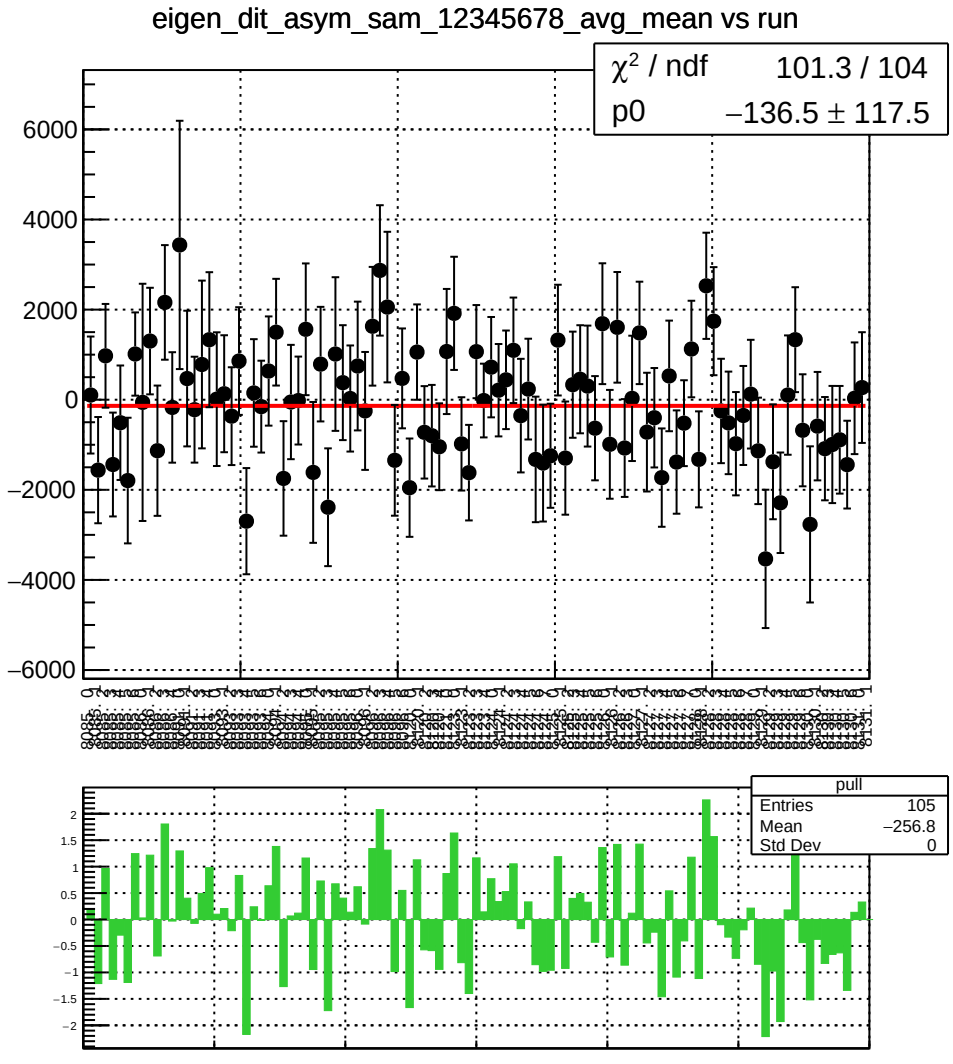

dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 101.3 / 104
p0 −136.5 ± 117.5
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 105
Mean −256.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 105
Mean 0.01763
Std Dev 0.9821
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

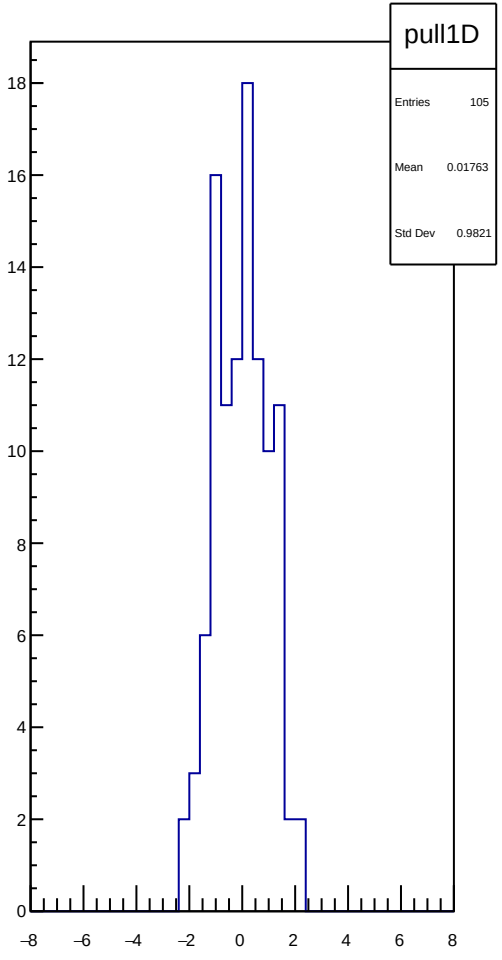

dit_asym_sam_12345678_avg_rms vs run
$\chi^2$ / ndf 3.84e+04 / 104
p0 116.8 ± 0.08307
280
260
240
220
200
180
160
140
120
100
80

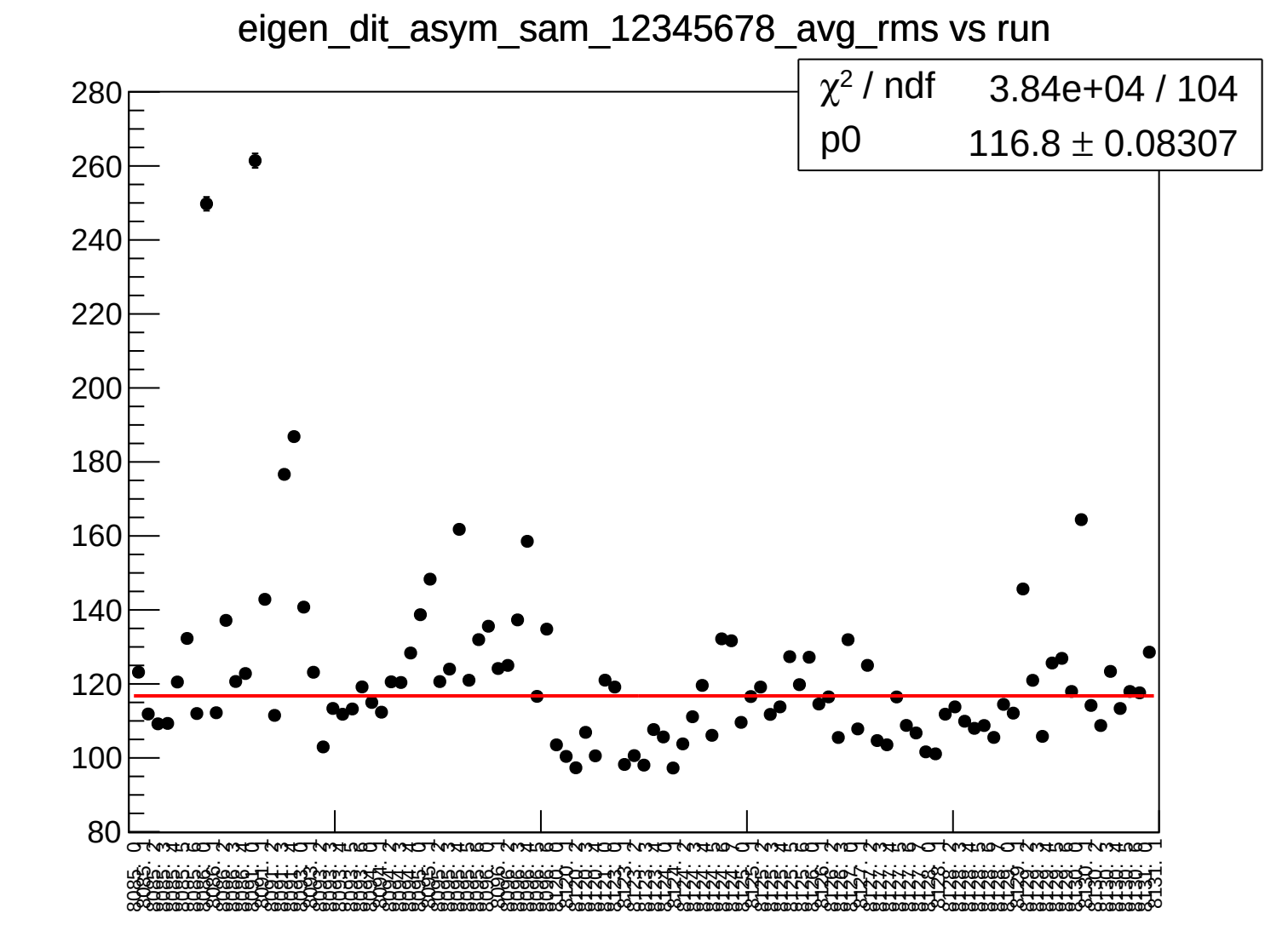

asym_sam_12345678_avg_dit_correction_mean vs run
$\chi^2$ / ndf 69.44 / 105
p0 −1914 ± 1342
40000
20000
0
−20000
−40000
pull
Entries 106
Mean 66.82
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

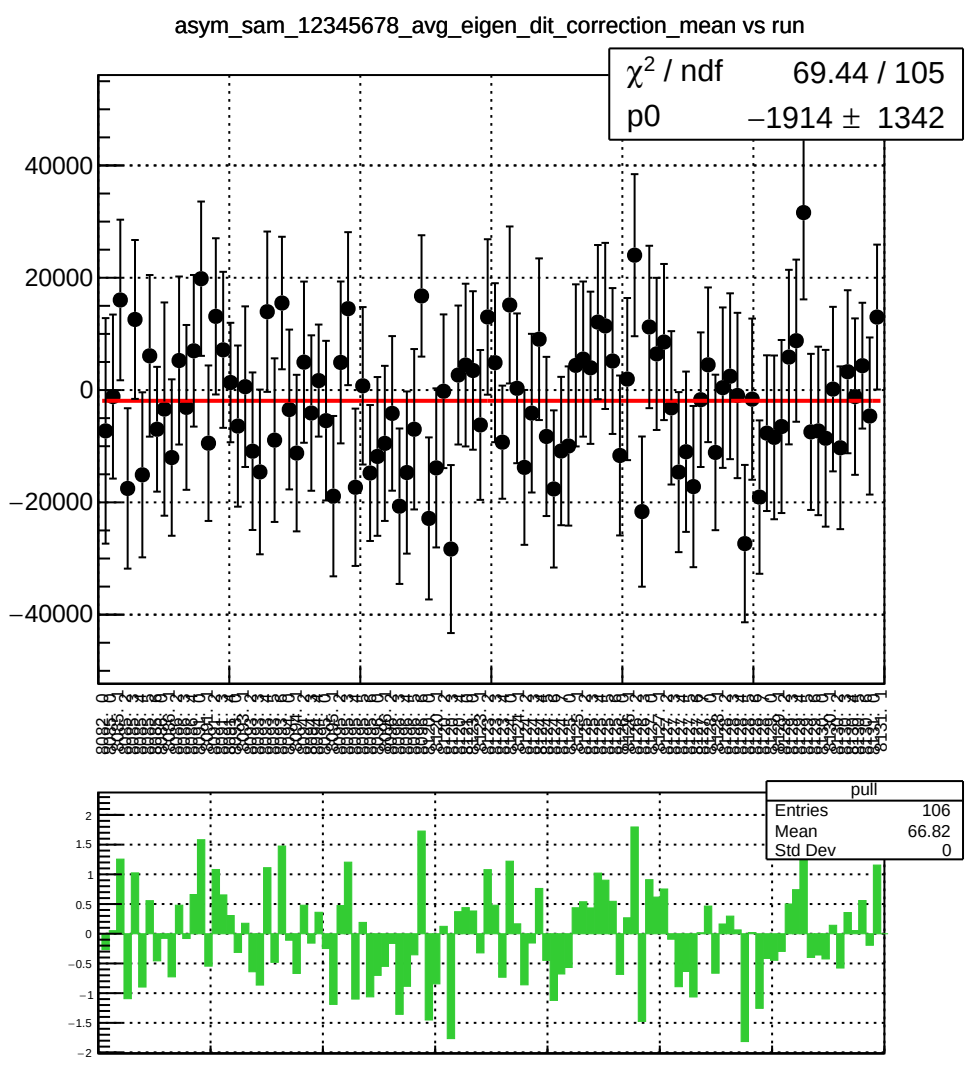

pull1D
Entries 106
Mean −0.00756
Std Dev 0.8093
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

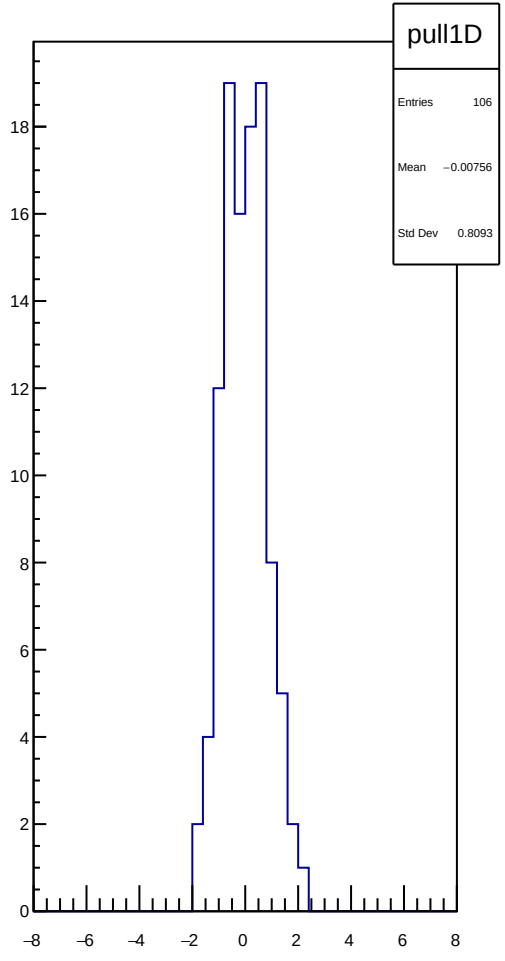

asym_sam_12345678_avg_dit_correction_rms vs run
χ² / ndf 3189 / 105
p0 1348 ± 0.9488
1800
1700
1600
1500
1400
1300
1200

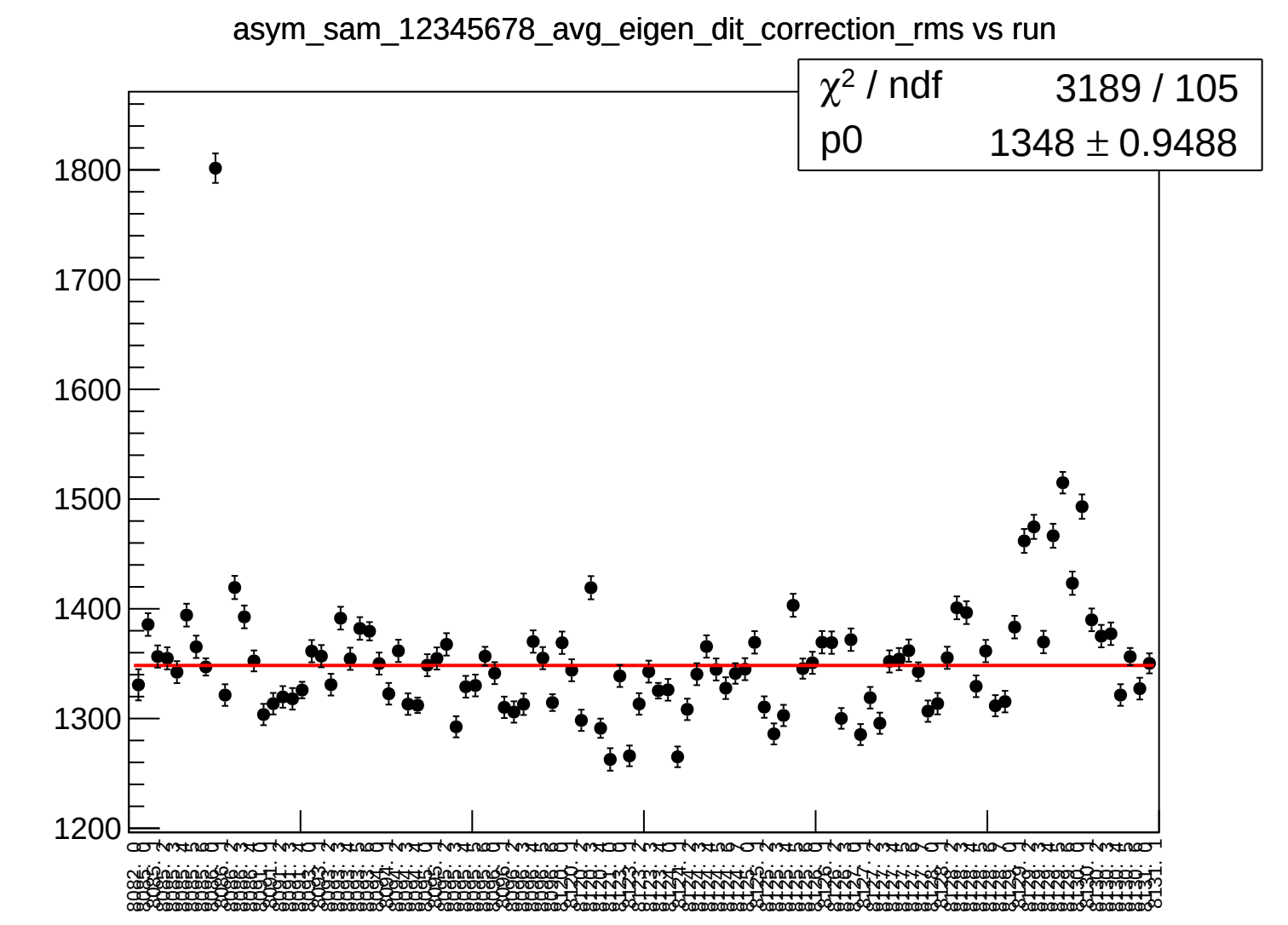

eigen_dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 101.3 / 104
p0 −136.5 ± 117.5
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 105
Mean −256.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

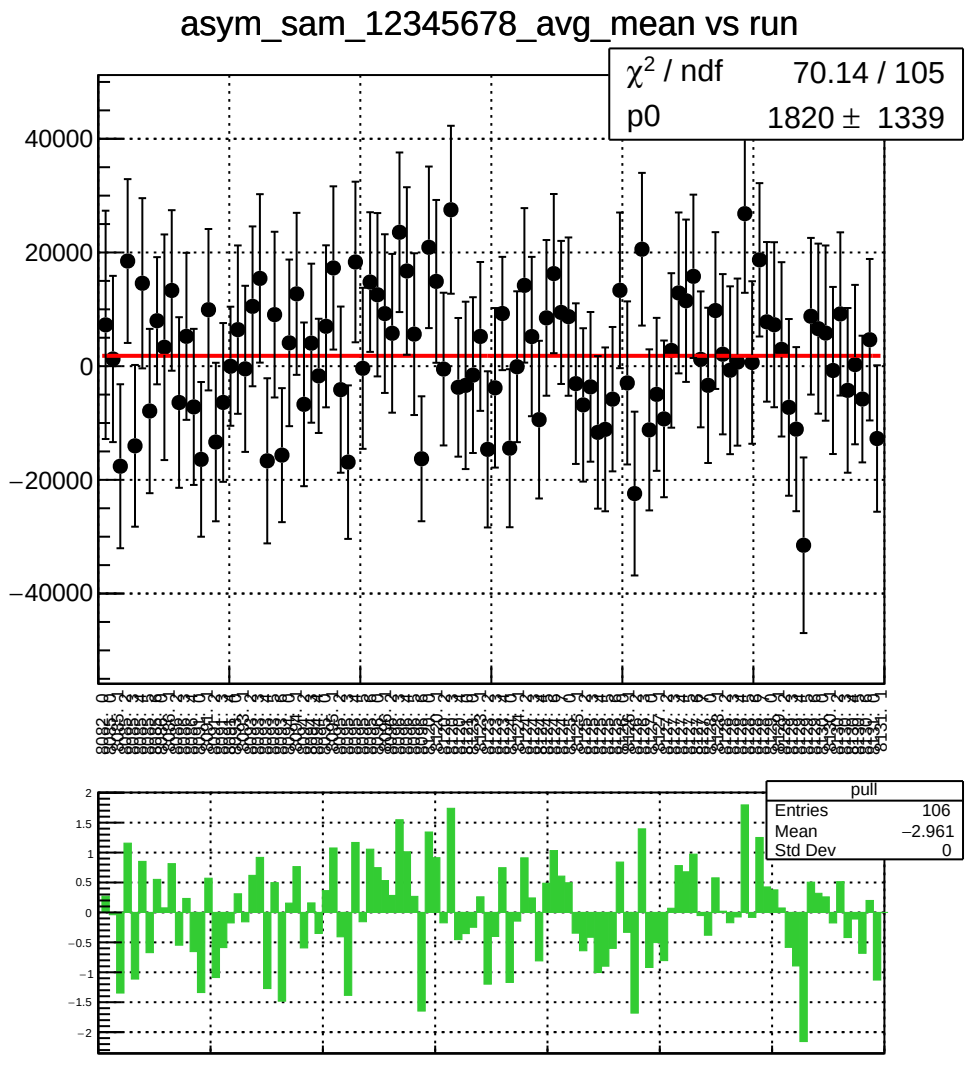

pull1D
Entries 105
Mean 0.01763
Std Dev 0.9821
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

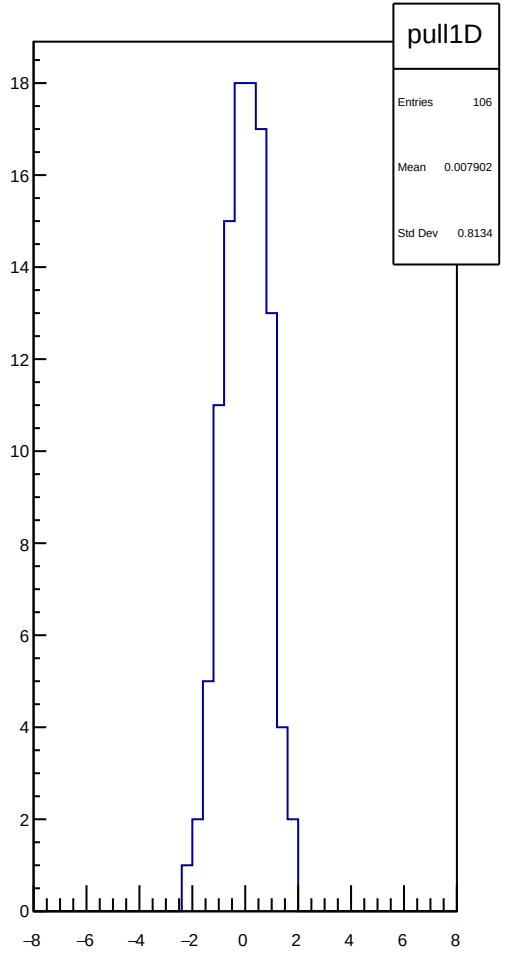

eigen_dit_asym_sam_12345678_avg_rms vs run
χ² / ndf 3.84e+04 / 104
p0 116.8 ± 0.08307
280
260
240
220
200
180
160
140
120
100
80

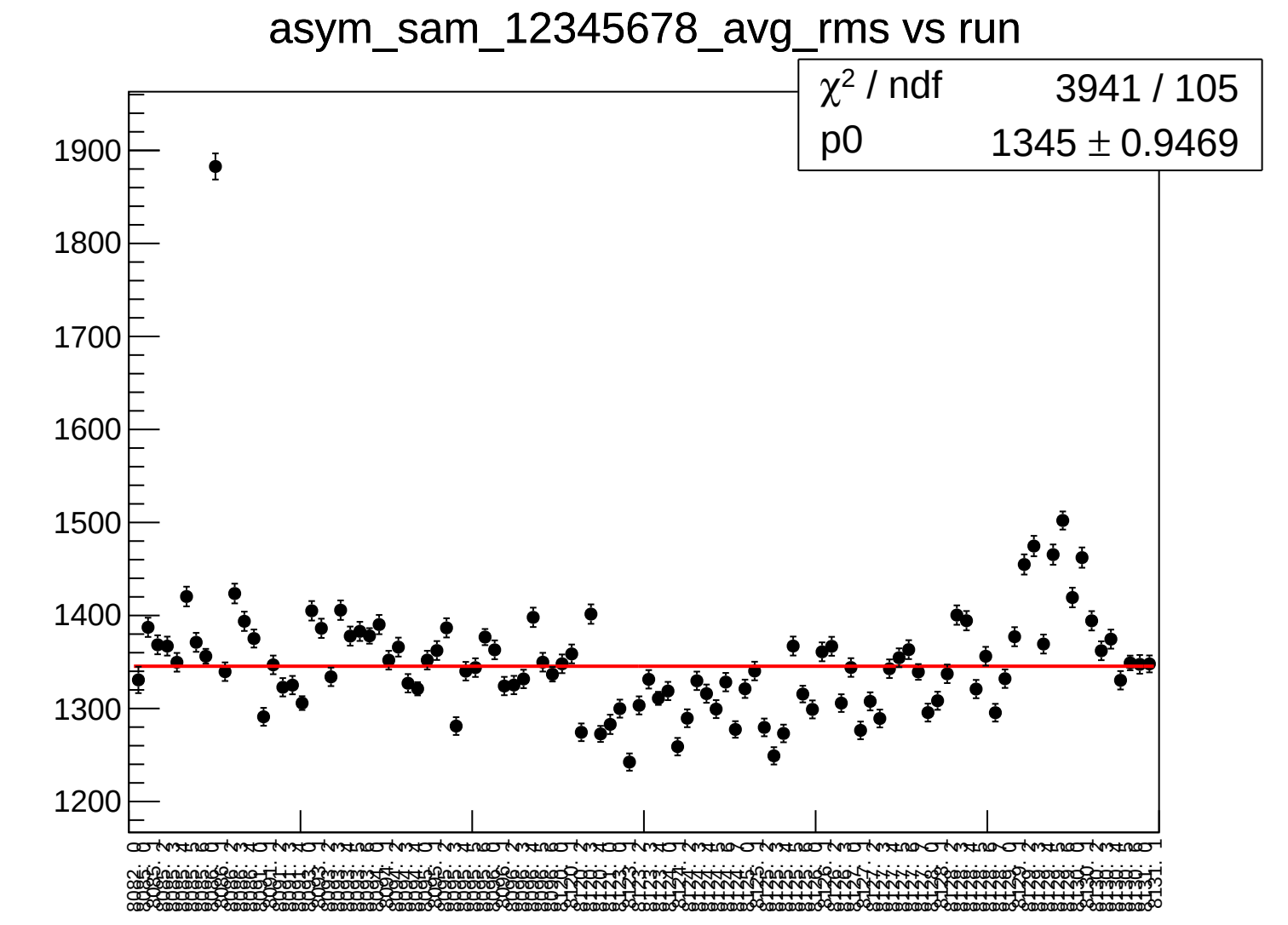

asym_sam_12345678_avg_eigen_dit_correction_mean vs run
χ² / ndf 69.44 / 105
p0 −1914 ± 1342
40000
20000
0
−20000
−40000
pull
Entries 106
Mean 66.82
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

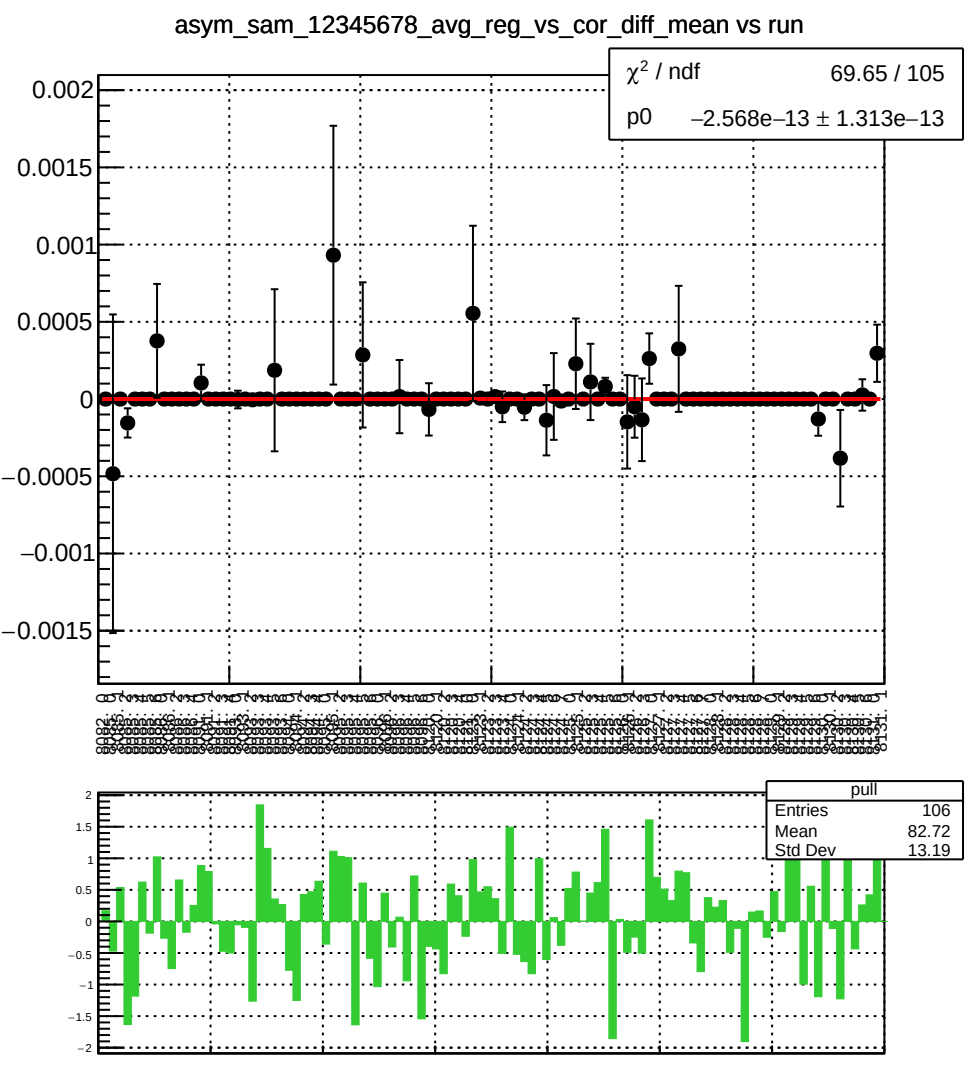

pull1D
Entries 106
Mean −0.00756
Std Dev 0.8093
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

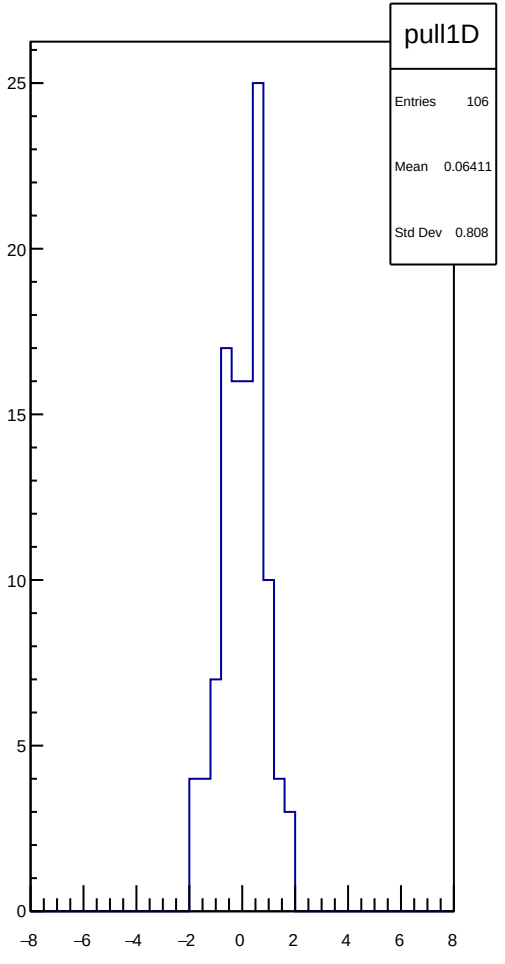

asym_sam_12345678_avg_eigen_dit_correction_rms vs run
χ² / ndf 3189 / 105
p0 1348 ± 0.9488
1800
1700
1600
1500
1400
1300
1200

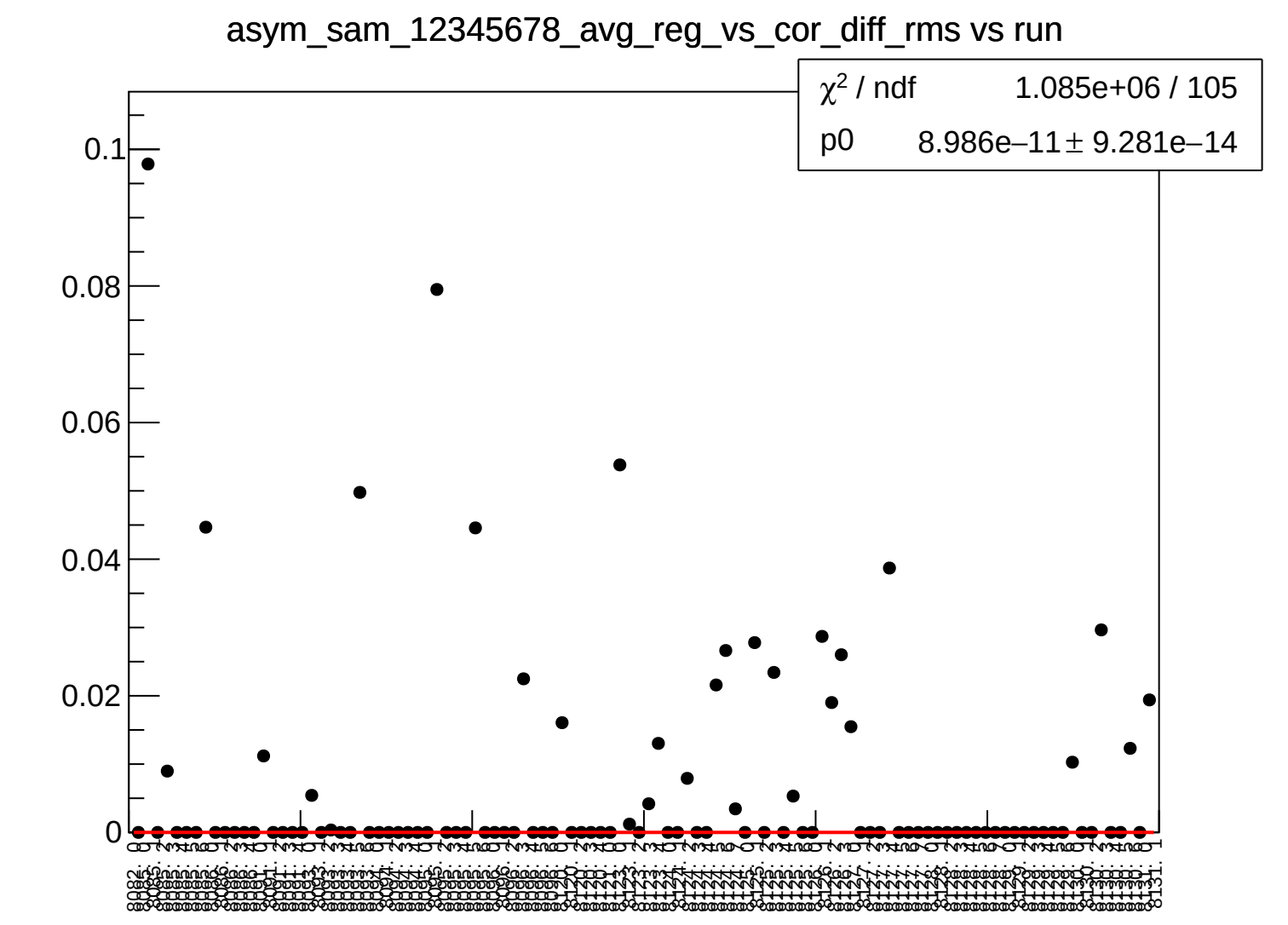

asym_sam_12345678_avg_mean vs run
$\chi^2$ / ndf 70.14 / 105
p0 1820 ± 1339
40000
20000
0
−20000
−40000
pull
Entries 106
Mean −2.961
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

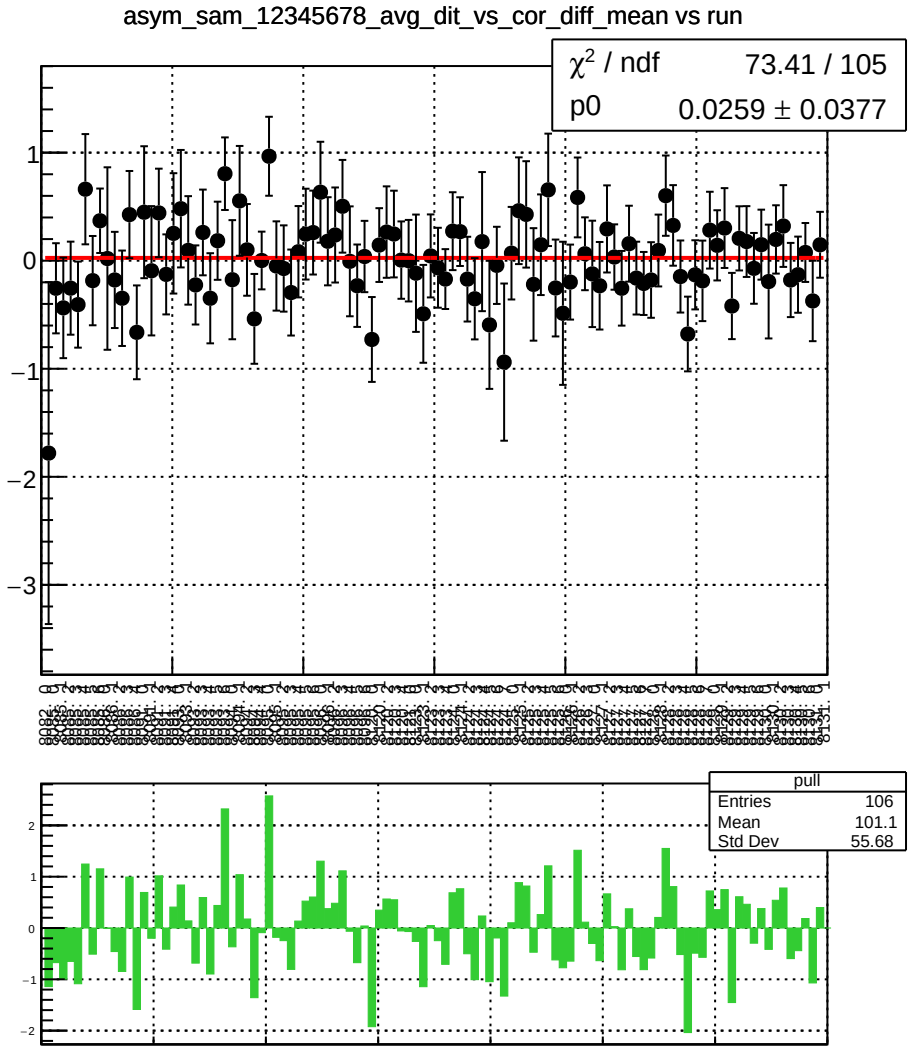

pull1D
Entries 106
Mean 0.007902
Std Dev 0.8134
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

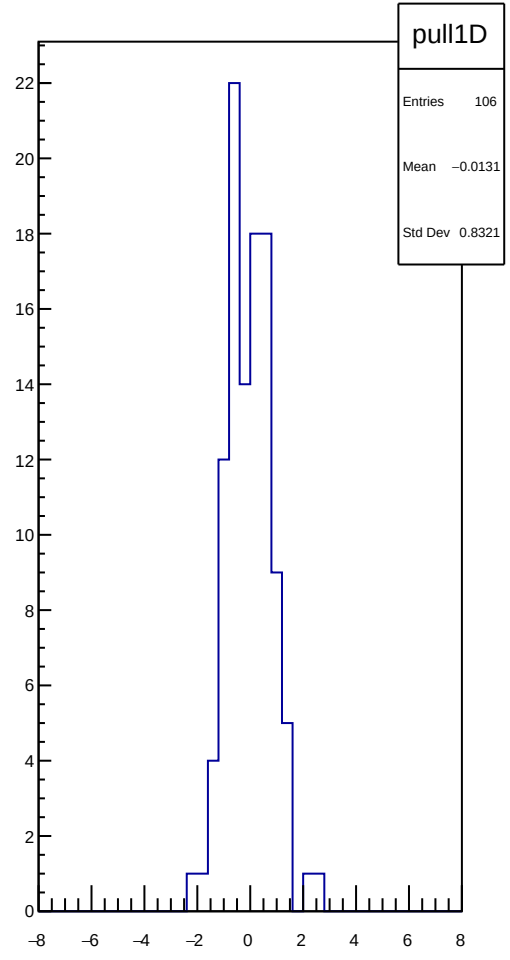

asym_sam_12345678_avg_rms vs run
$\chi^2$ / ndf 3941 / 105
p0 1345 ± 0.9469
1900
1800
1700
1600
1500
1400
1300
1200

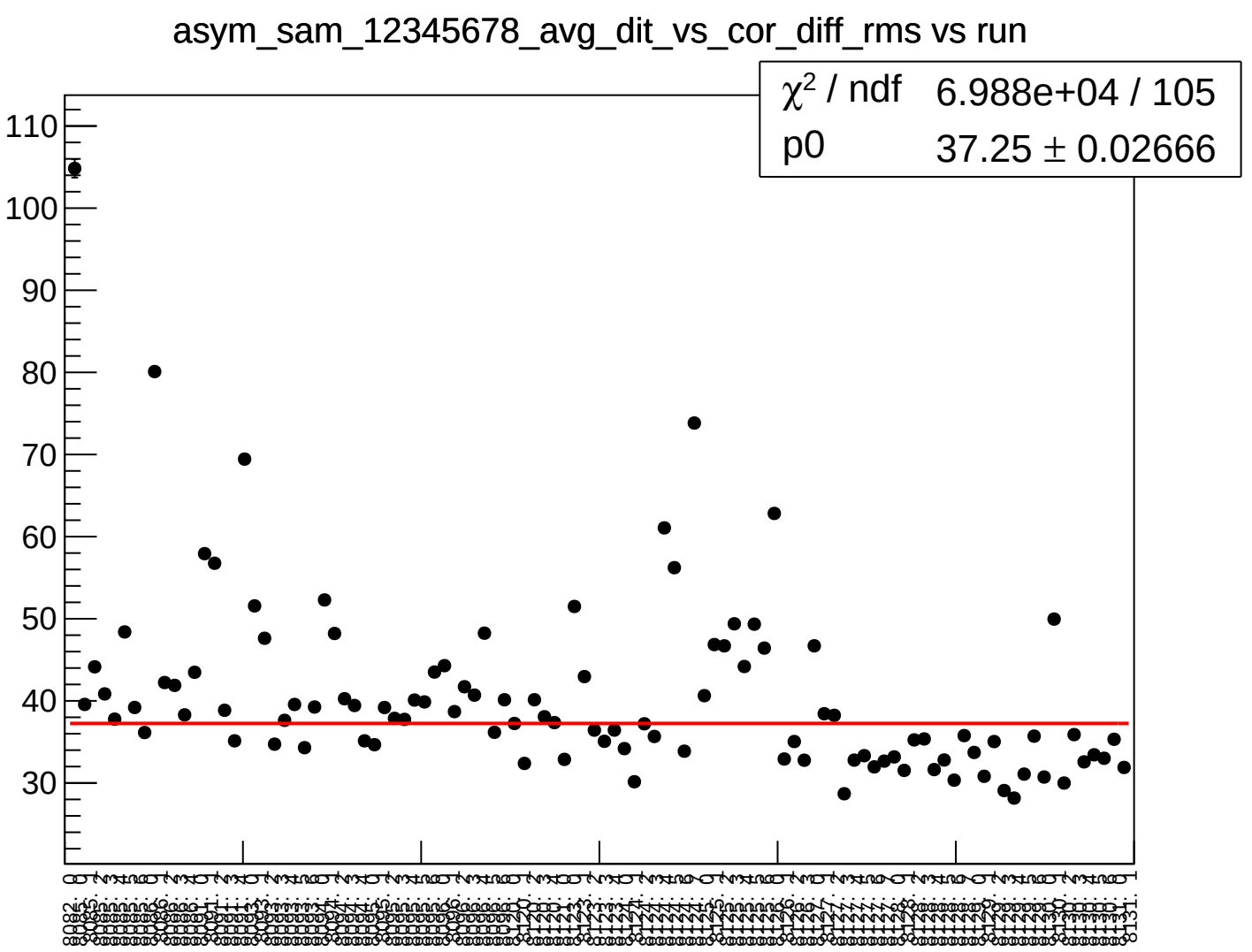

asym_sam_12345678_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 69.65 / 105
p0 −2.568e−13 ± 1.313e−13
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 106
Mean 82.72
Std Dev 13.19
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

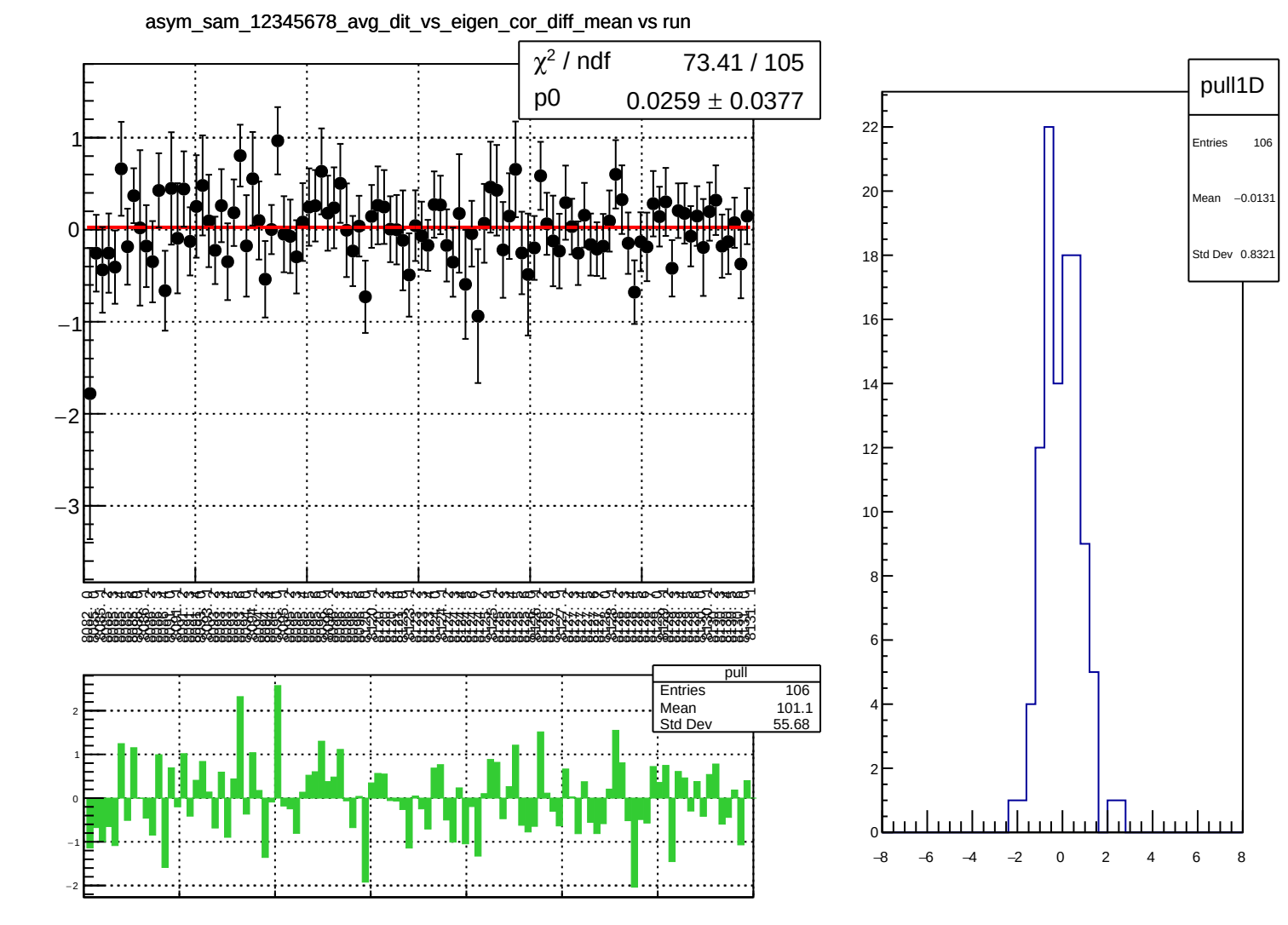

pull1D
Entries 106
Mean 0.06411
Std Dev 0.808
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

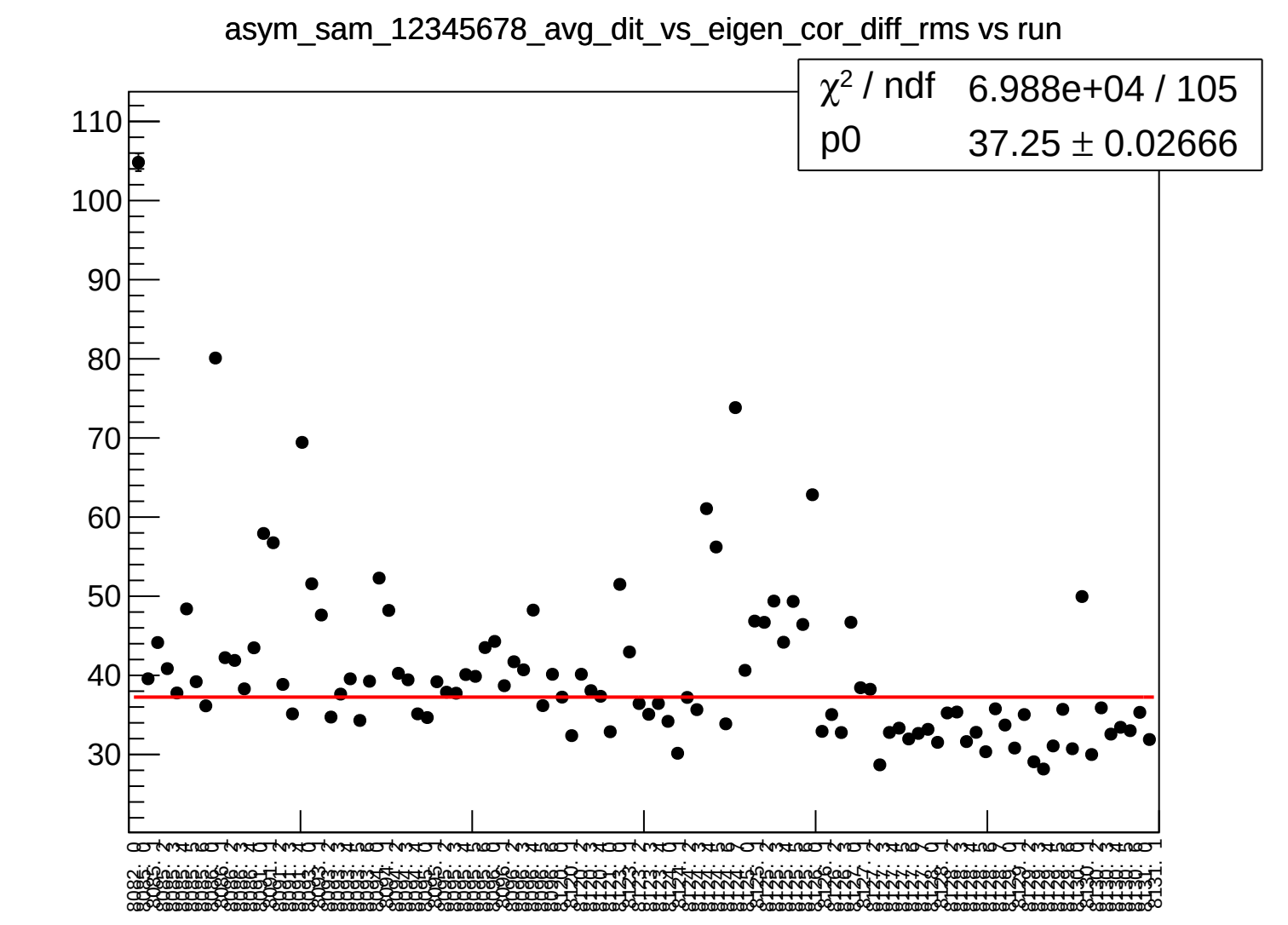

asym_sam_12345678_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.085e+06 / 105
p0 8.986e−11 ± 9.281e−14
0.1
0.08
0.06
0.04
0.02
0

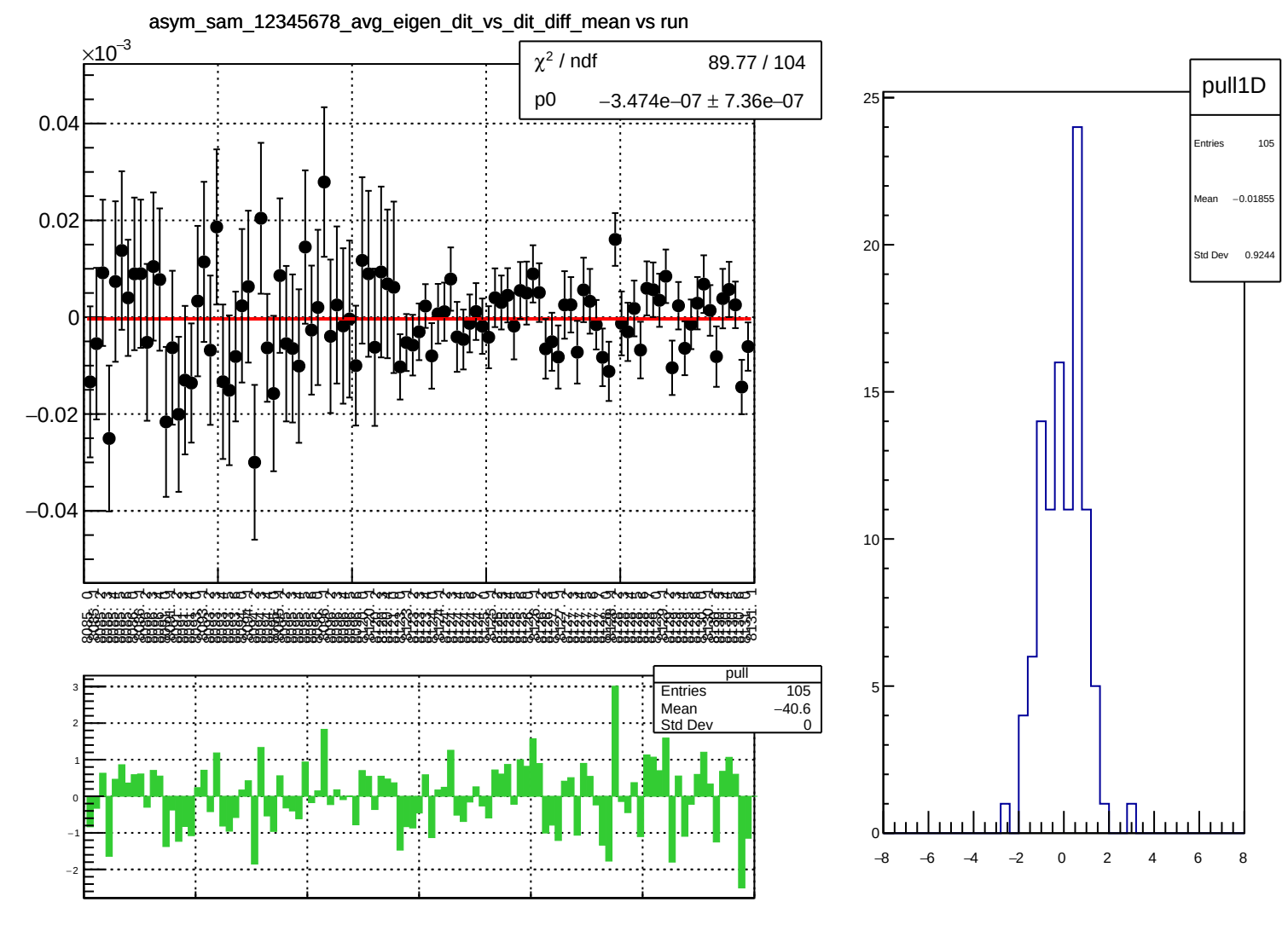

asym_sam_12345678_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 73.41 / 105
p0 0.0259 ± 0.0377
pull
Entries 106
Mean 101.1
Std Dev 55.68

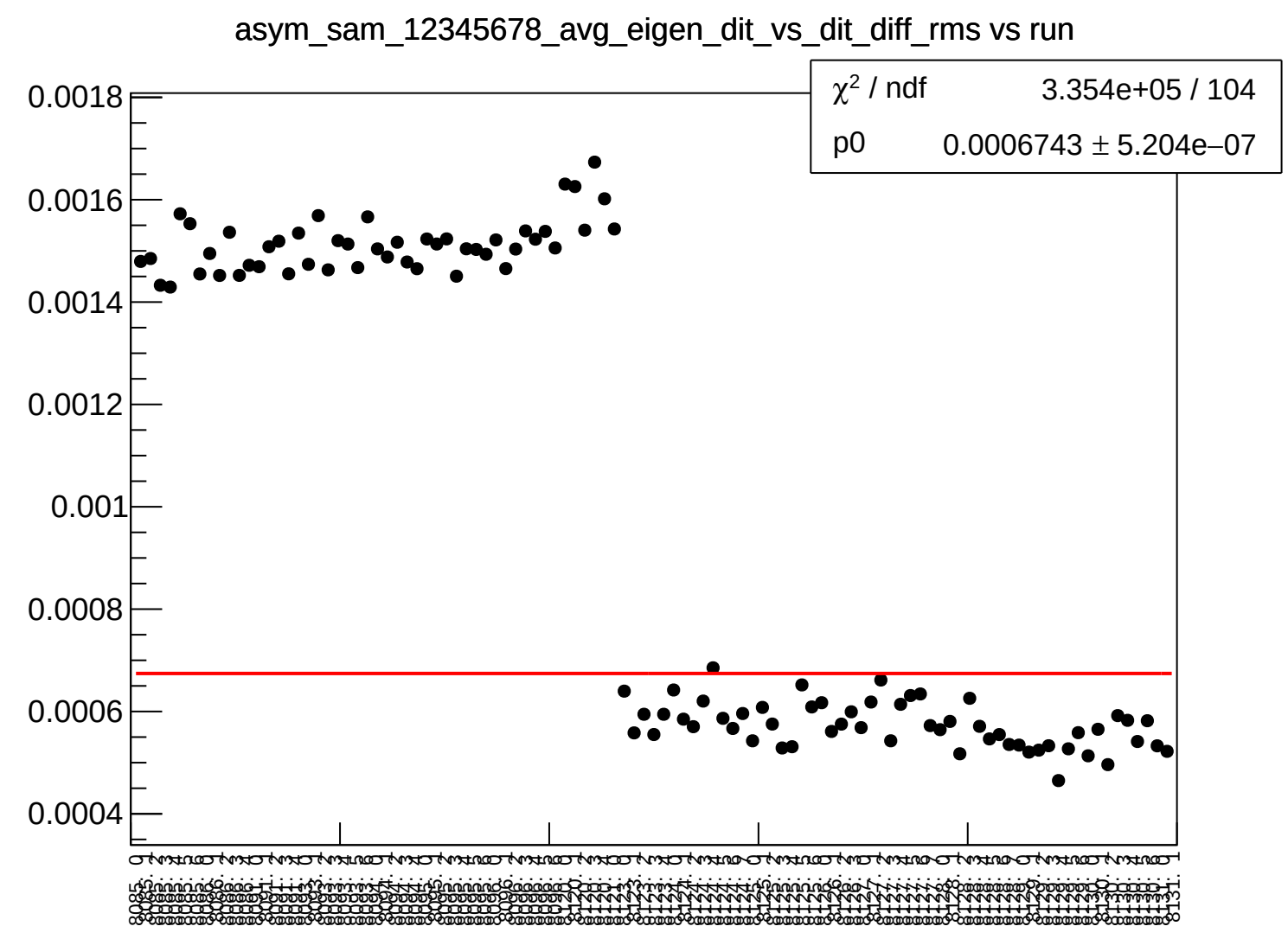

pull1D
Entries 106
Mean −0.0131
Std Dev 0.8321

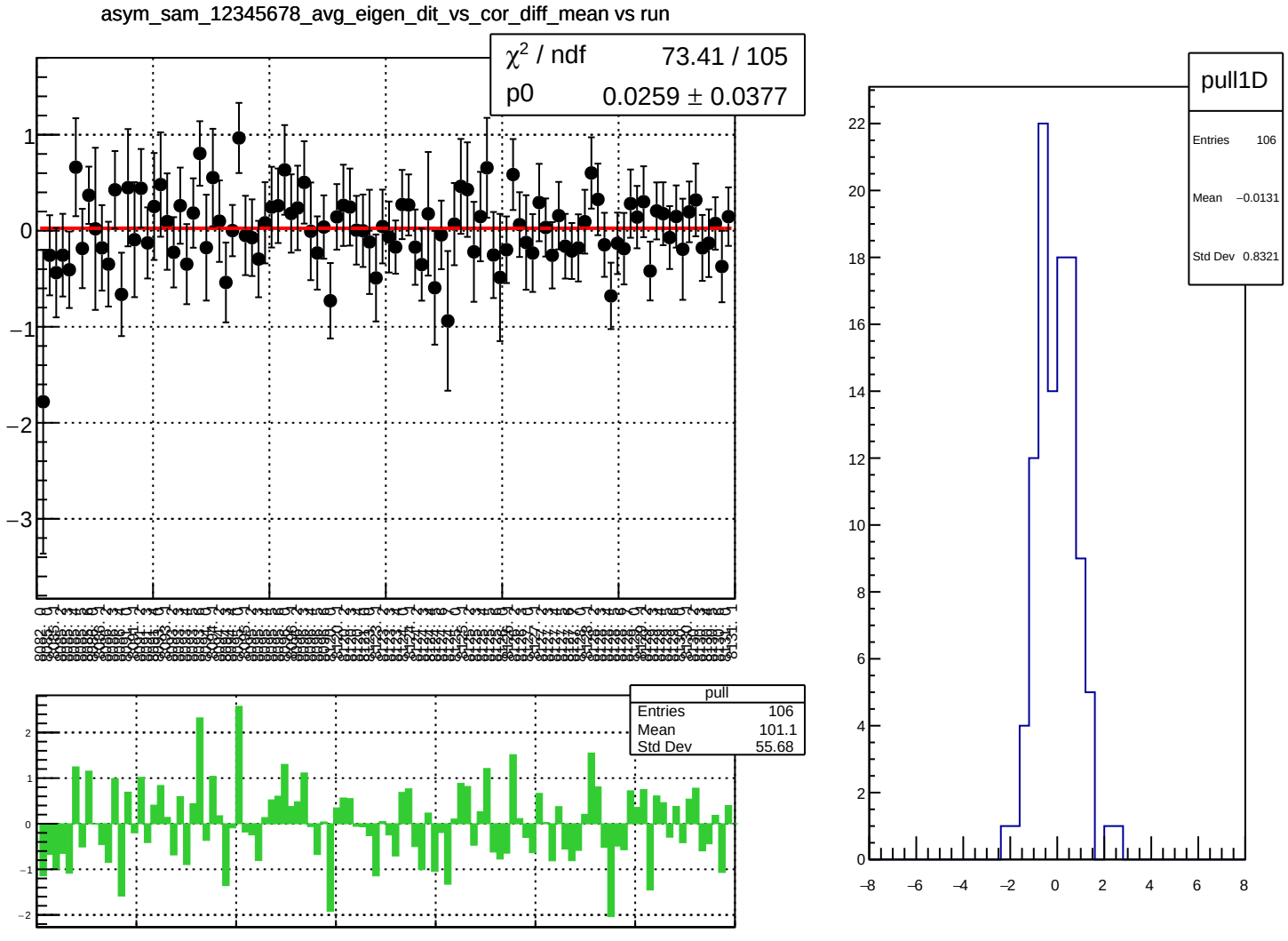

asym_sam_12345678_avg_dit_vs_cor_diff_rms vs run
$\chi^2$ / ndf 6.988e+04 / 105
p0 37.25 ± 0.02666
110
100
90
80
70
60
50
40
30

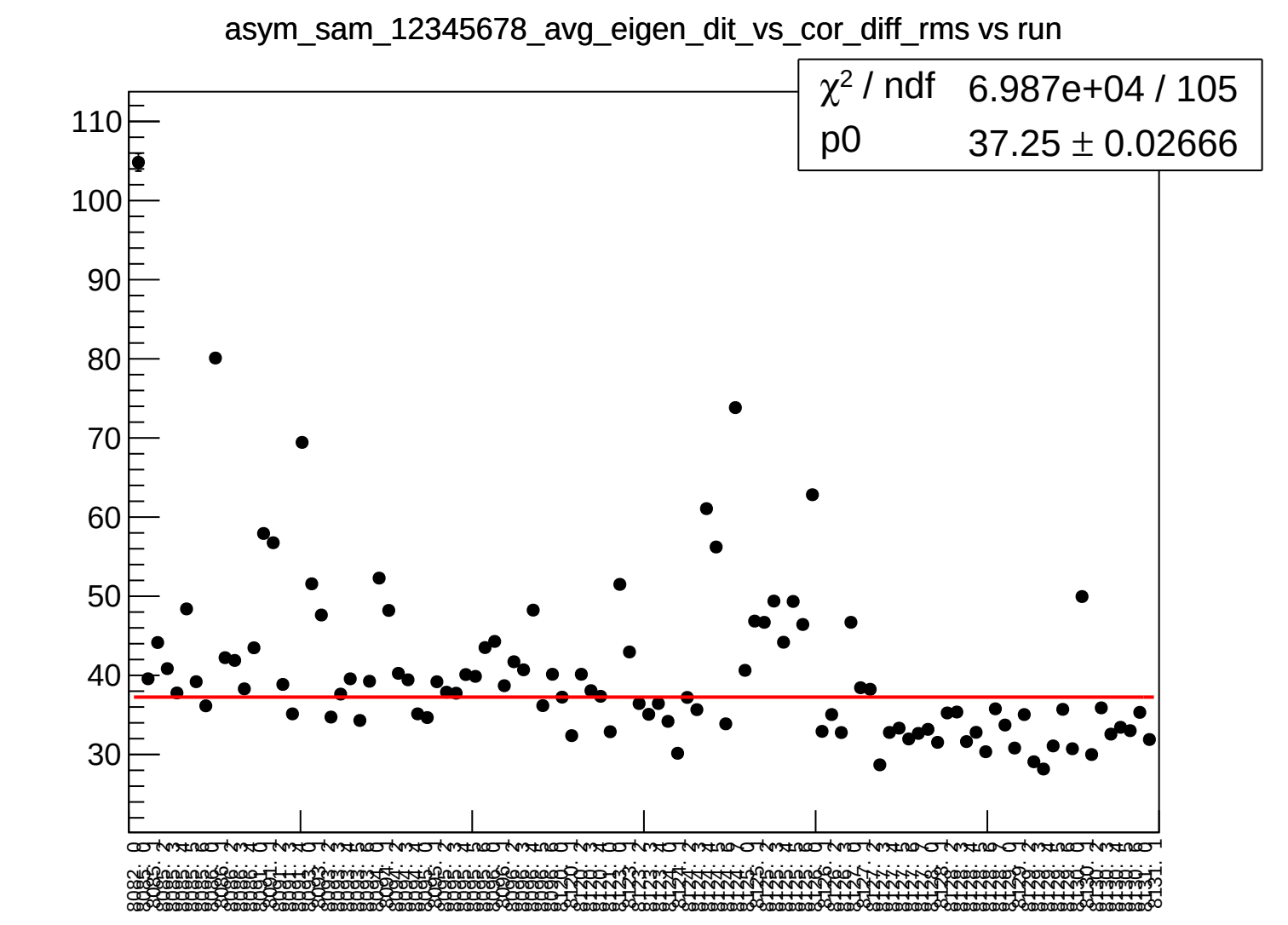

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.41 / 105
p0 0.0259 ± 0.0377
pull
Entries 106
Mean 101.1
Std Dev 55.68
pull1D
Entries 106
Mean −0.0131
Std Dev 0.8321

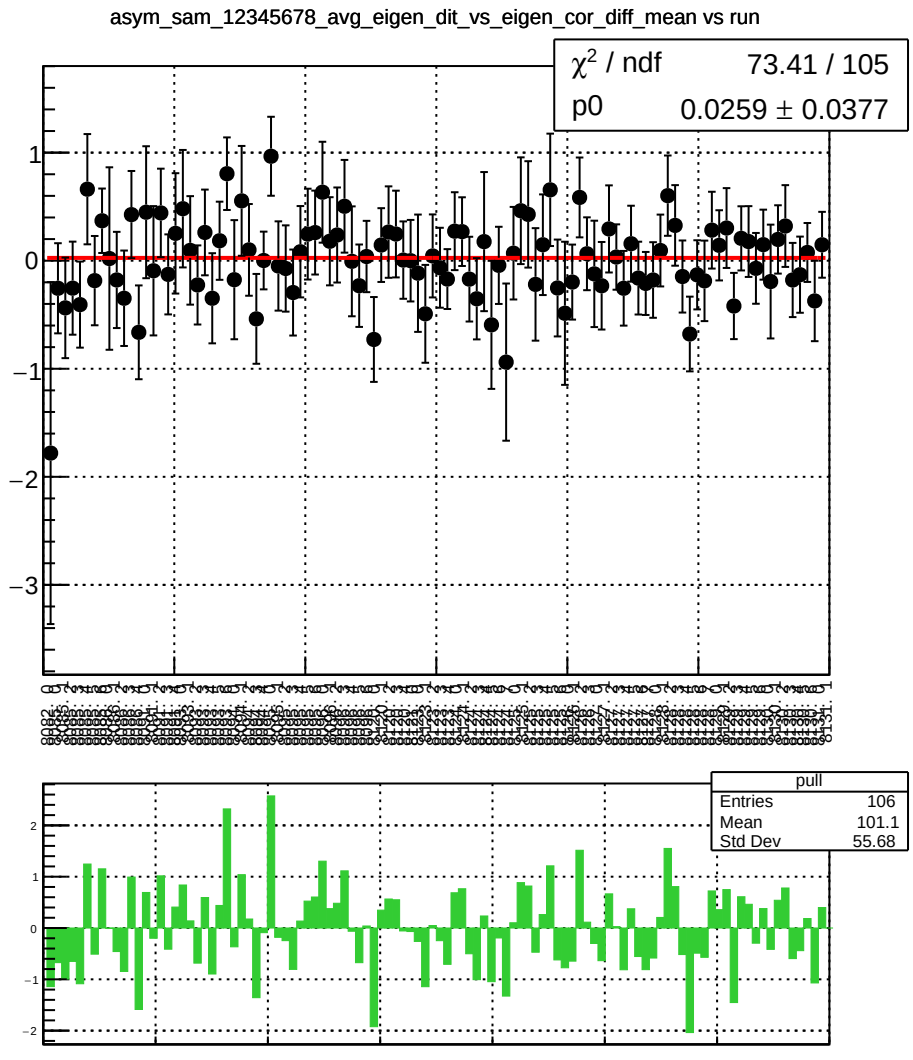

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.988e+04 / 105
p0 37.25 ± 0.02666
110
100
90
80
70
60
50
40
30

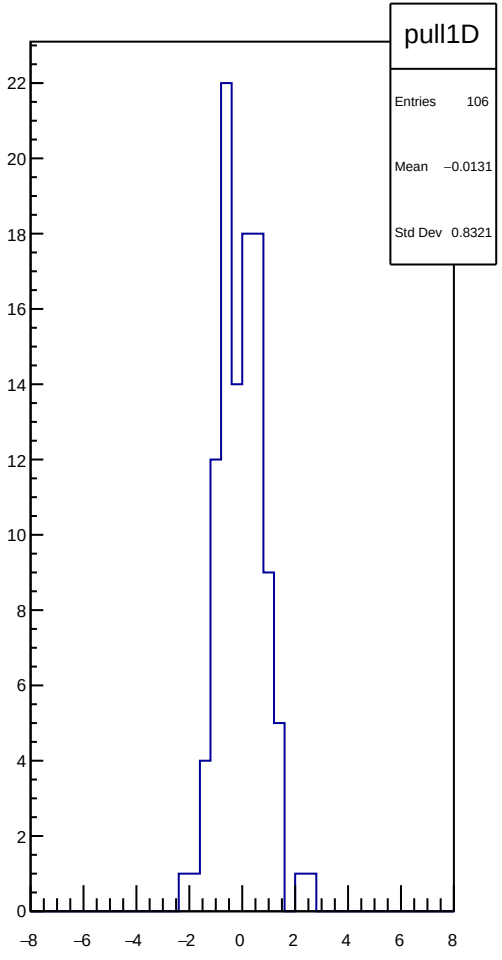

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 89.77 / 104
p0 −3.474e−07 ± 7.36e−07
0.04
0.02
0
−0.02
−0.04
pull
Entries 105
Mean −40.6
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.01855
Std Dev 0.9244
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

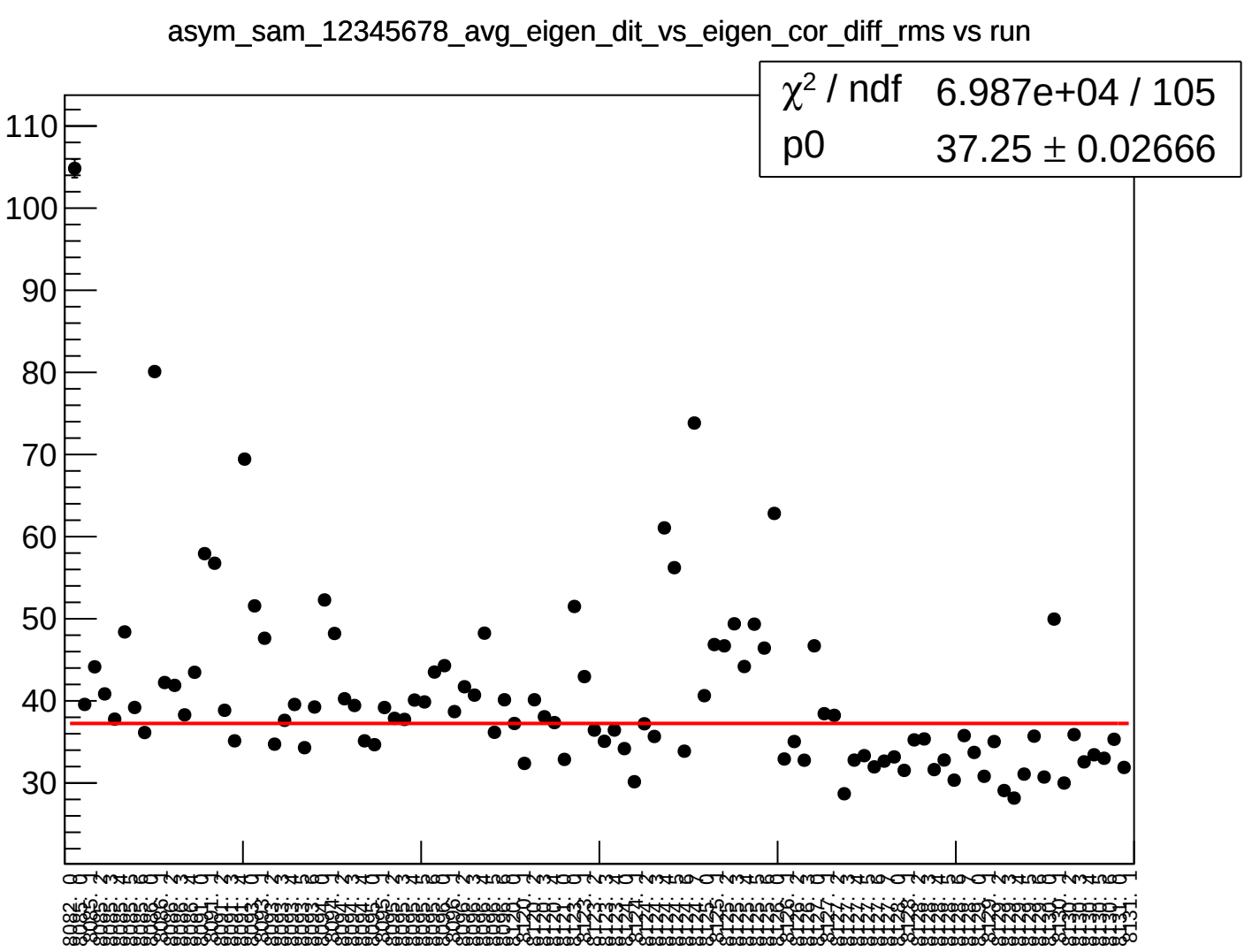

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.354e+05 / 104
p0 0.0006743 ± 5.204e−07
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004

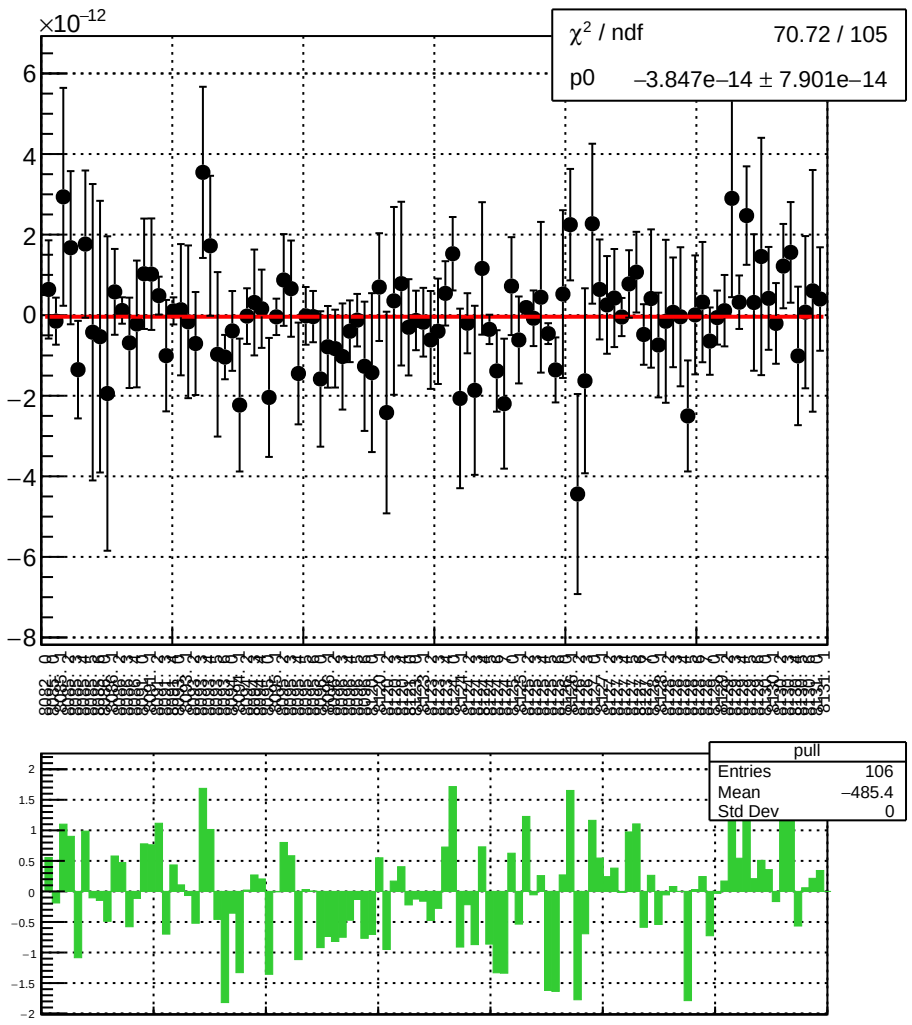

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 73.41 / 105
p0 0.0259 ± 0.0377
pull
Entries 106
Mean 101.1
Std Dev 55.68
pull1D
Entries 106
Mean −0.0131
Std Dev 0.8321

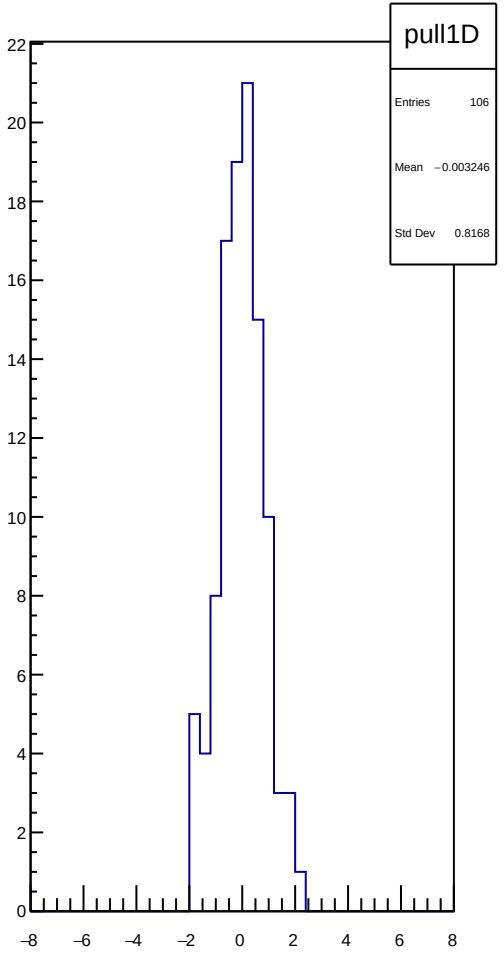

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.987e+04 / 105
p0 37.25 ± 0.02666
110
100
90
80
70
60
50
40
30

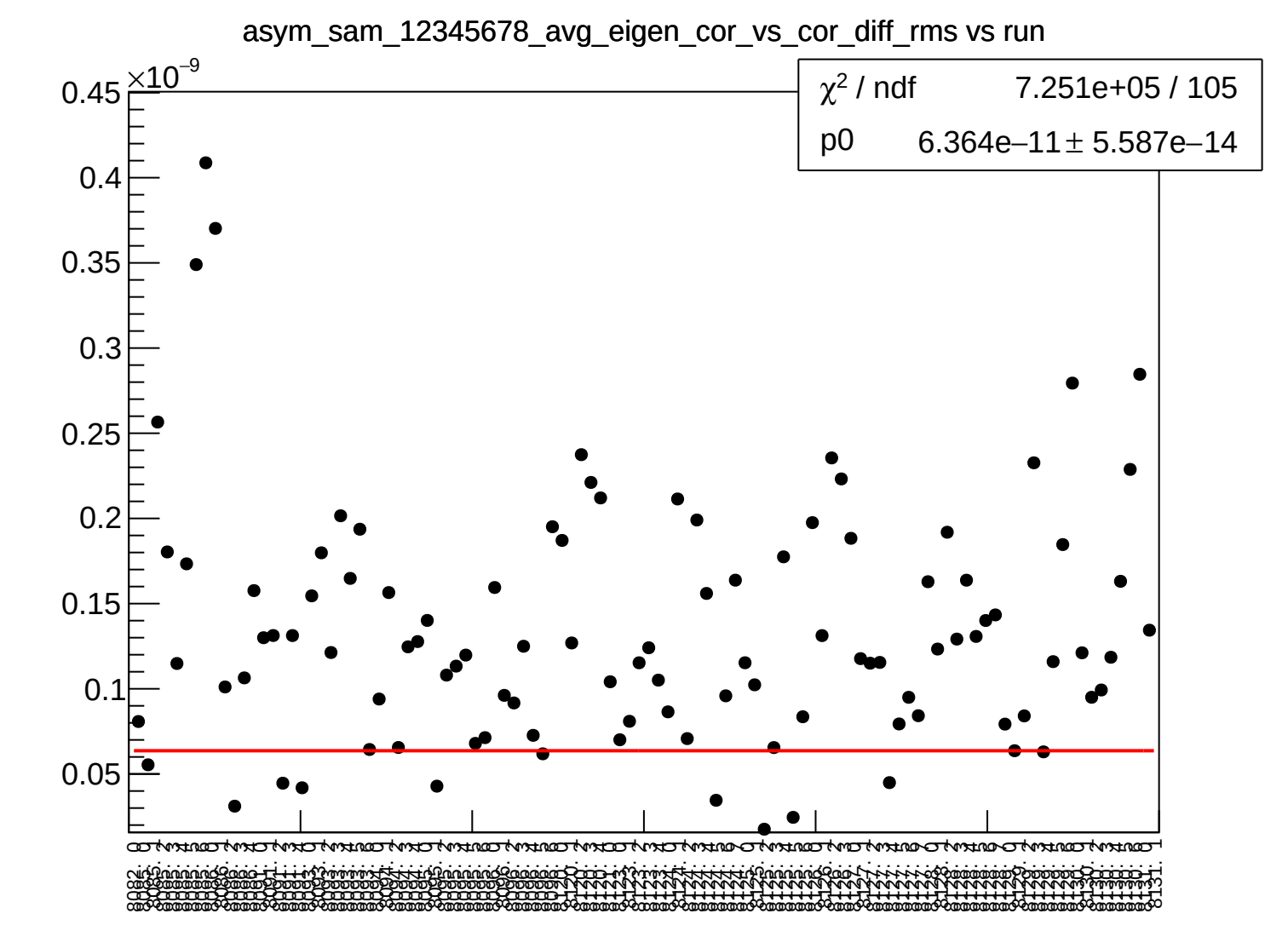

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 73.41 / 105
p0 0.0259 ± 0.0377
pull
Entries 106
Mean 101.1
Std Dev 55.68

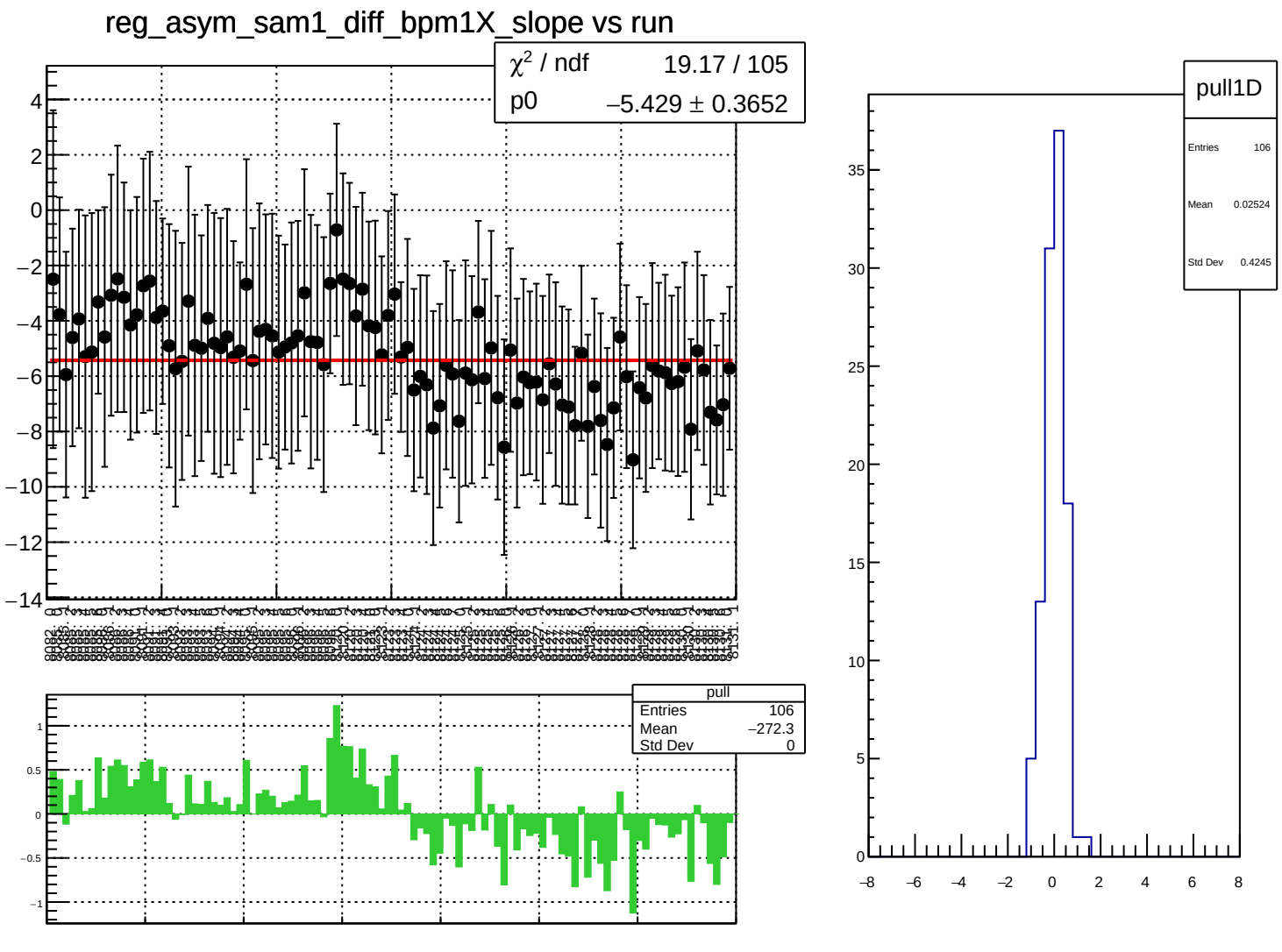

pull1D
Entries 106
Mean −0.0131
Std Dev 0.8321

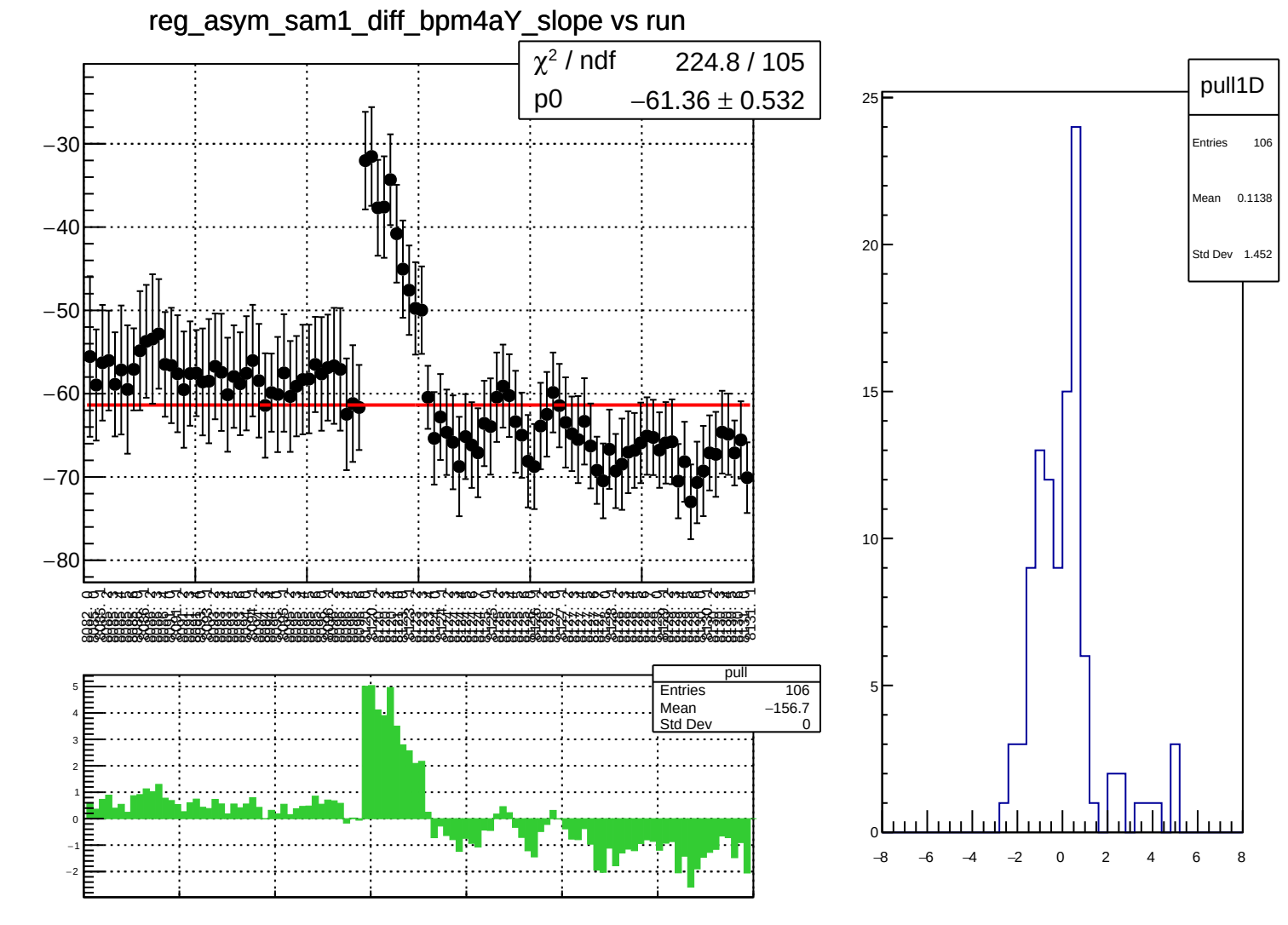

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.987e+04 / 105
p0 37.25 ± 0.02666
110
100
90
80
70
60
50
40
30

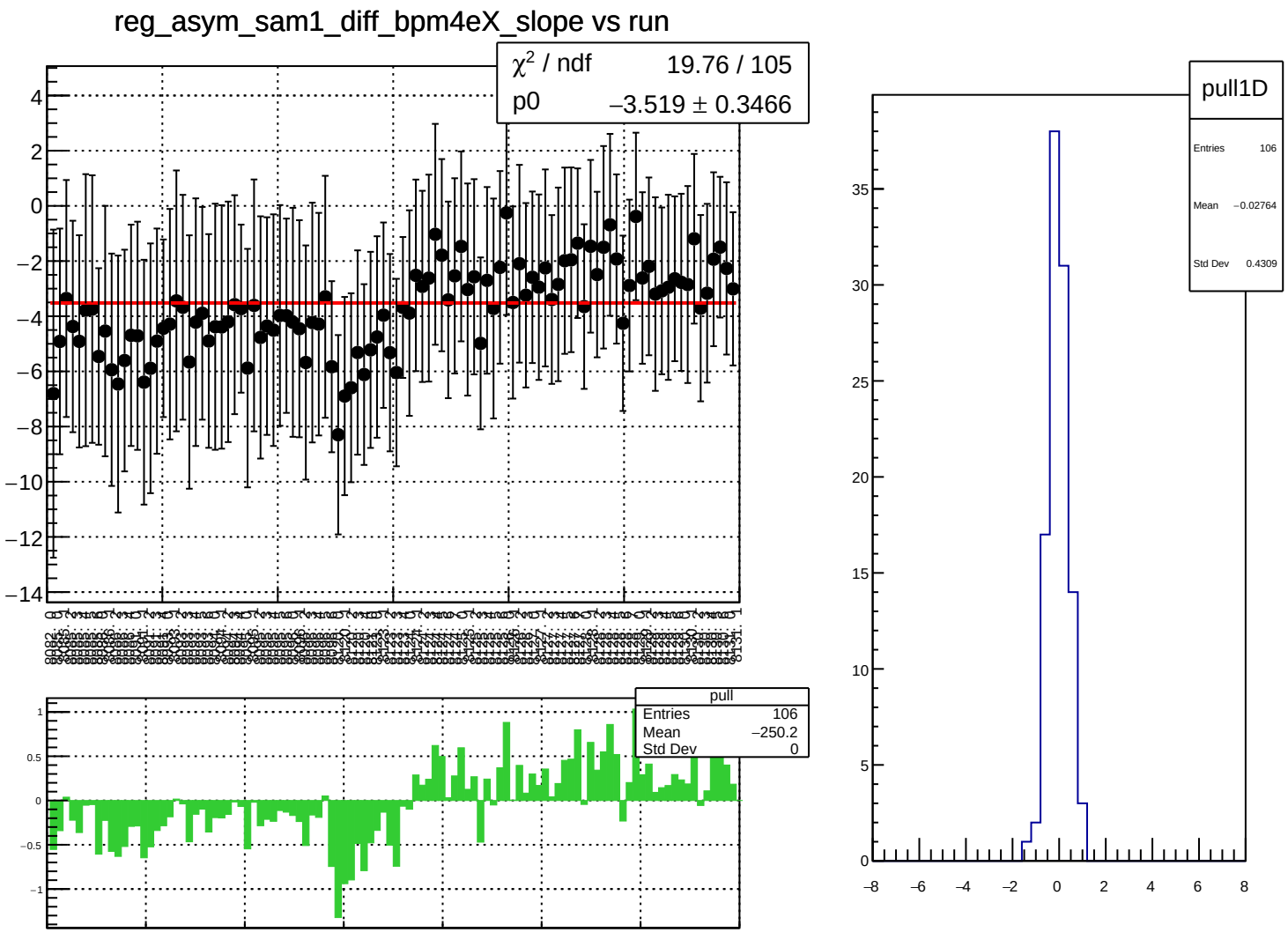

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 70.72 / 105
p0 −3.847e−14 ± 7.901e−14
pull
Entries 106
Mean −485.4
Std Dev 0

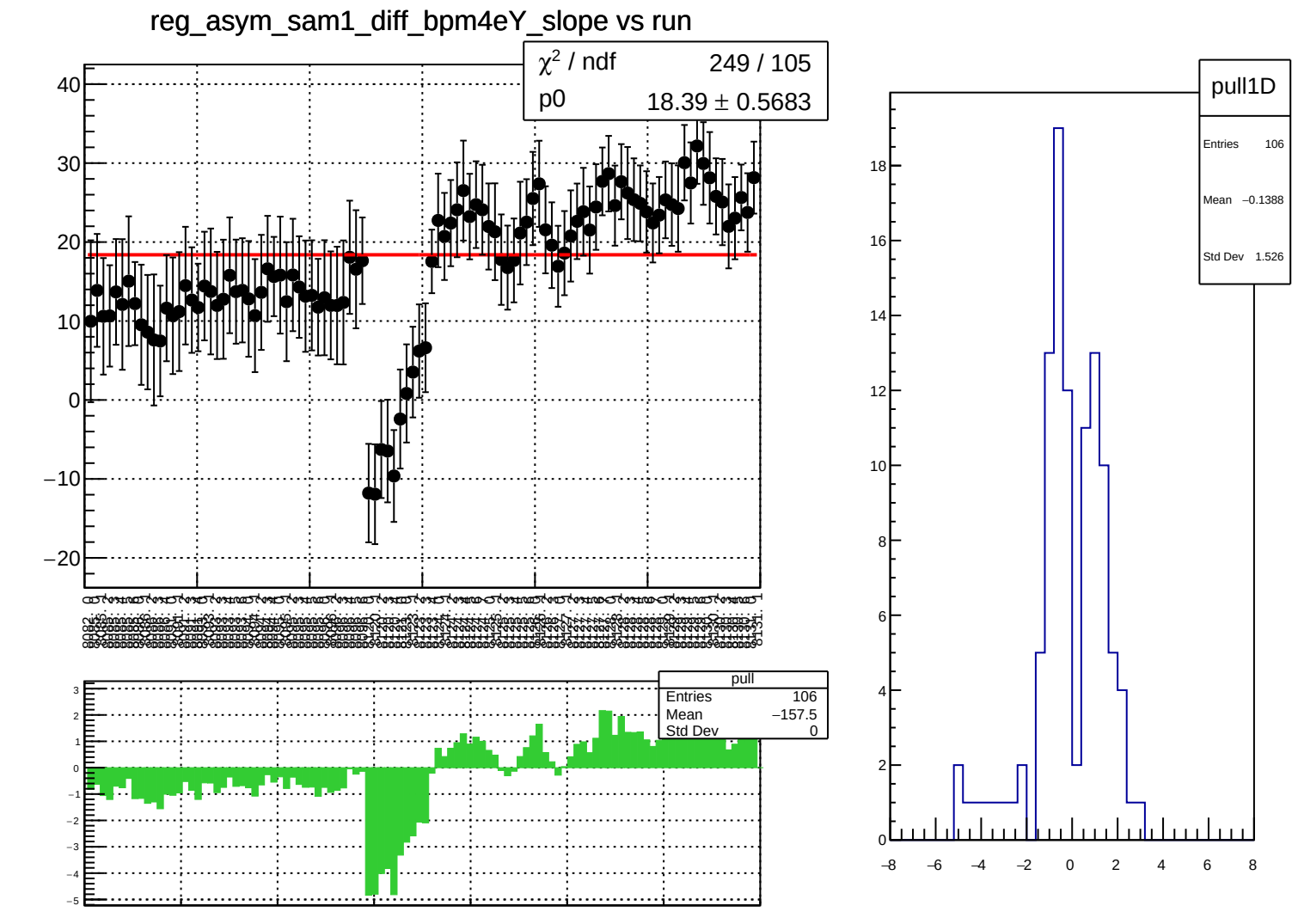

pull1D
Entries 106
Mean −0.003246
Std Dev 0.8168

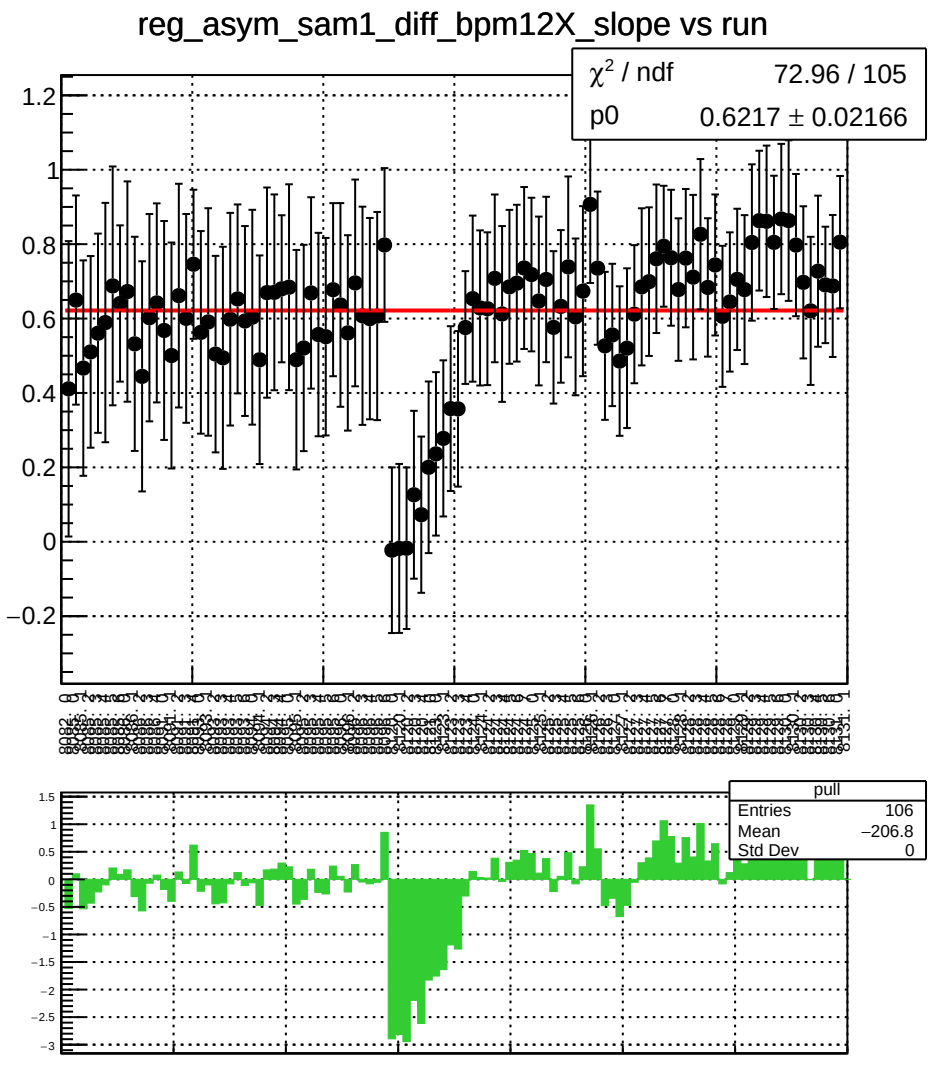

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
χ² / ndf 7.251e+05 / 105
p0 6.364e−11 ± 5.587e−14

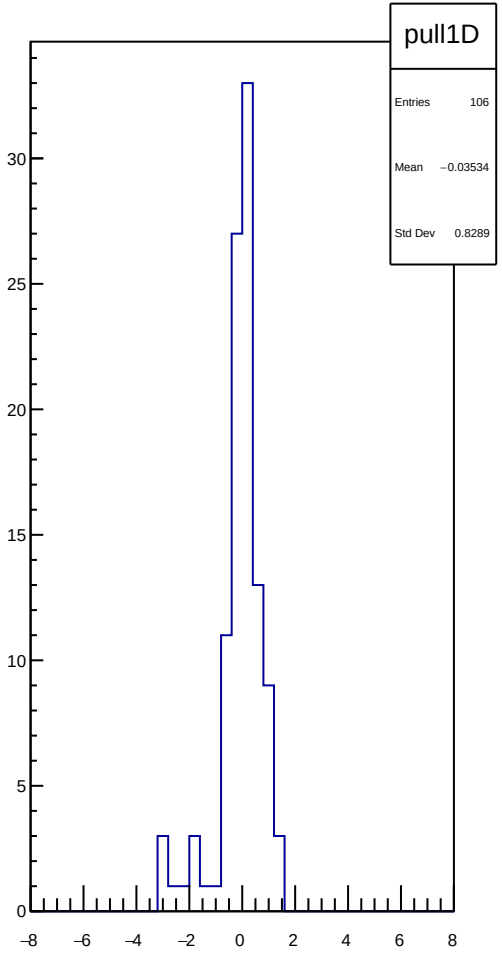

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 19.17 / 105
p0 −5.429 ± 0.3652
pull
Entries 106
Mean −272.3
Std Dev 0
pull1D
Entries 106
Mean 0.02524
Std Dev 0.4245

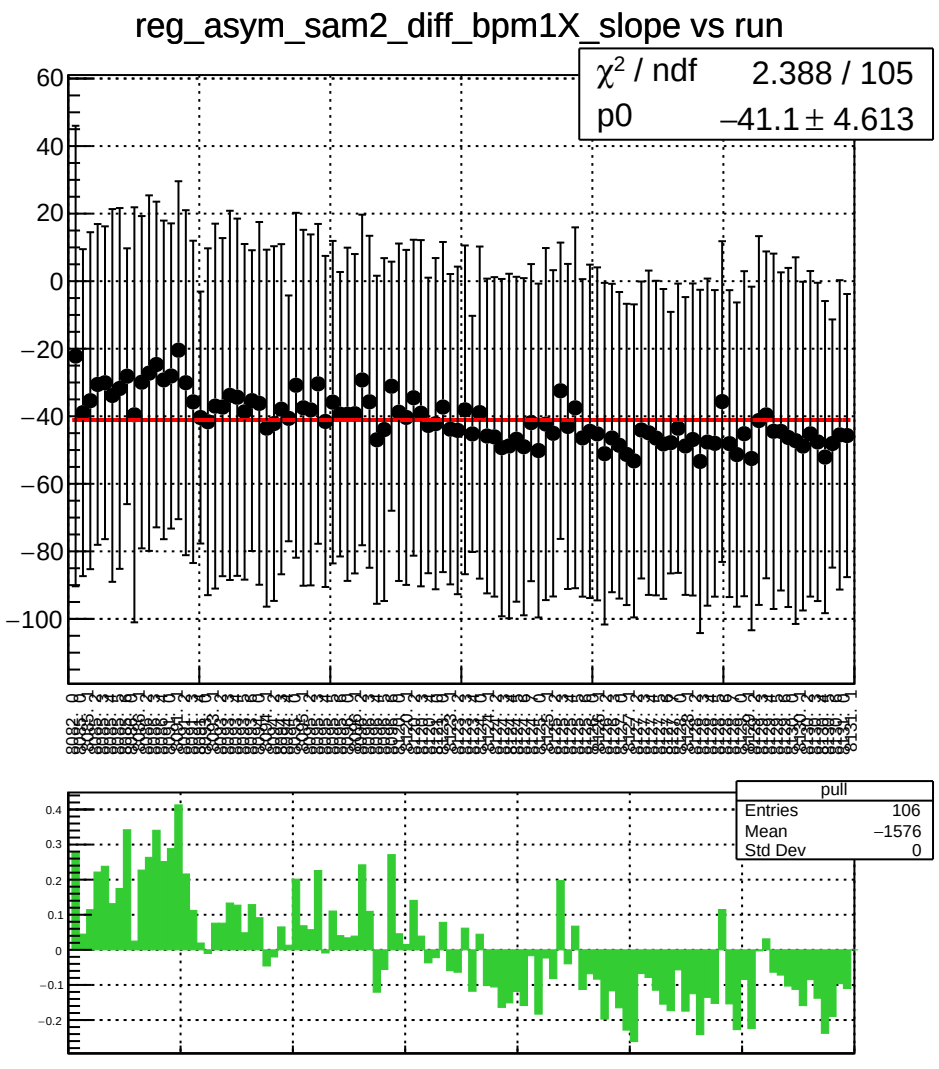

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 224.8 / 105
p0 −61.36 ± 0.532
−30
−40
−50
−60
−70
−80
pull
Entries 106
Mean −156.7
Std Dev 0
5
4
3
2
1
0
−1
−2
pull1D
Entries 106
Mean 0.1138
Std Dev 1.452
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

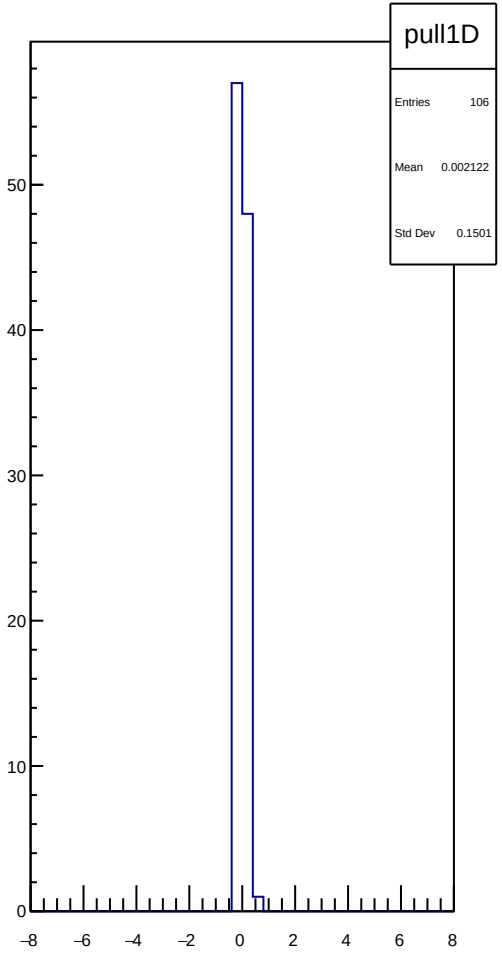

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 19.76 / 105
p0 −3.519 ± 0.3466
pull
Entries 106
Mean −250.2
Std Dev 0
pull1D
Entries 106
Mean −0.02764
Std Dev 0.4309

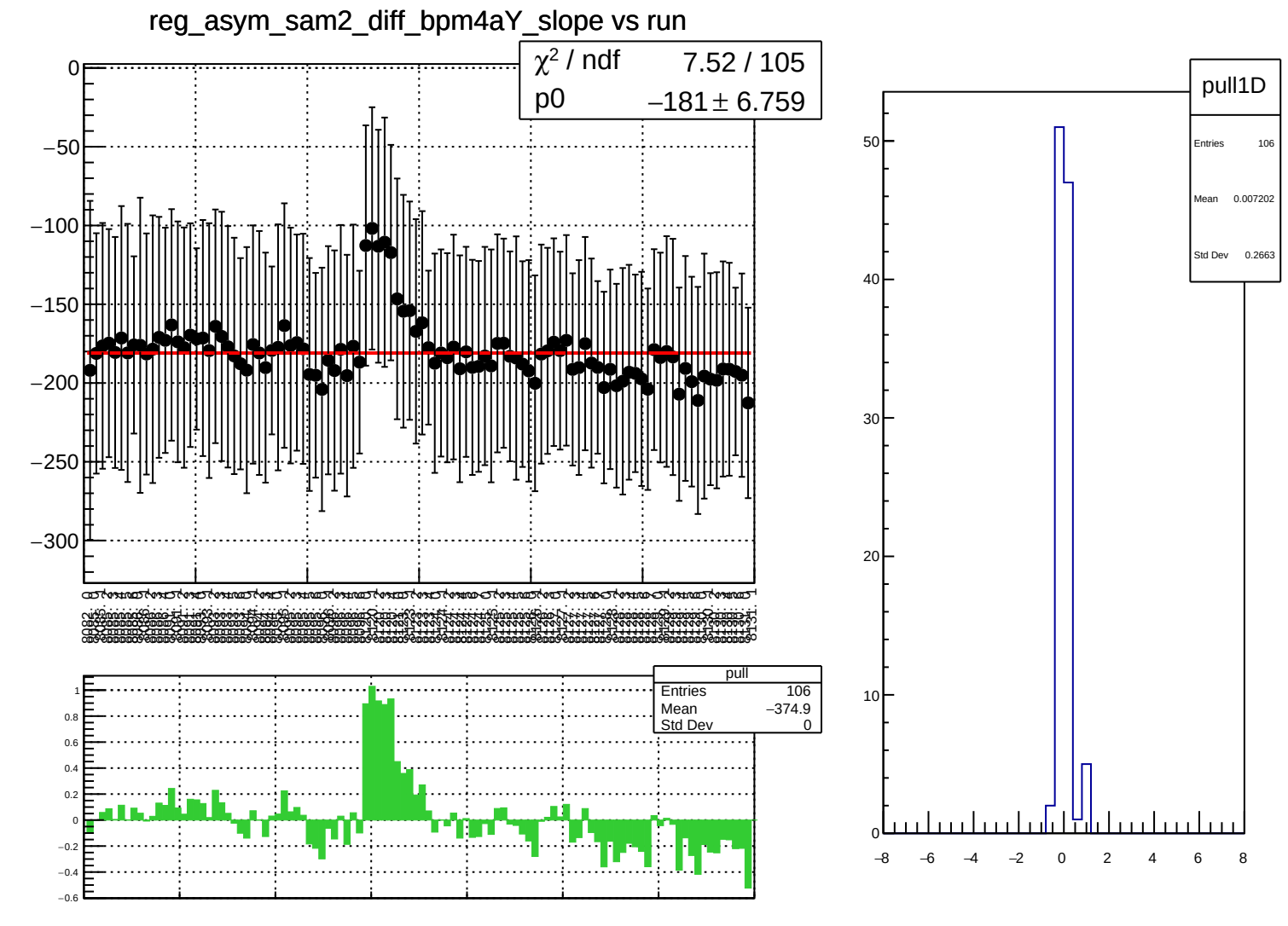

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 249 / 105
p0 18.39 ± 0.5683
pull
Entries 106
Mean −157.5
Std Dev 0
pull1D
Entries 106
Mean −0.1388
Std Dev 1.526

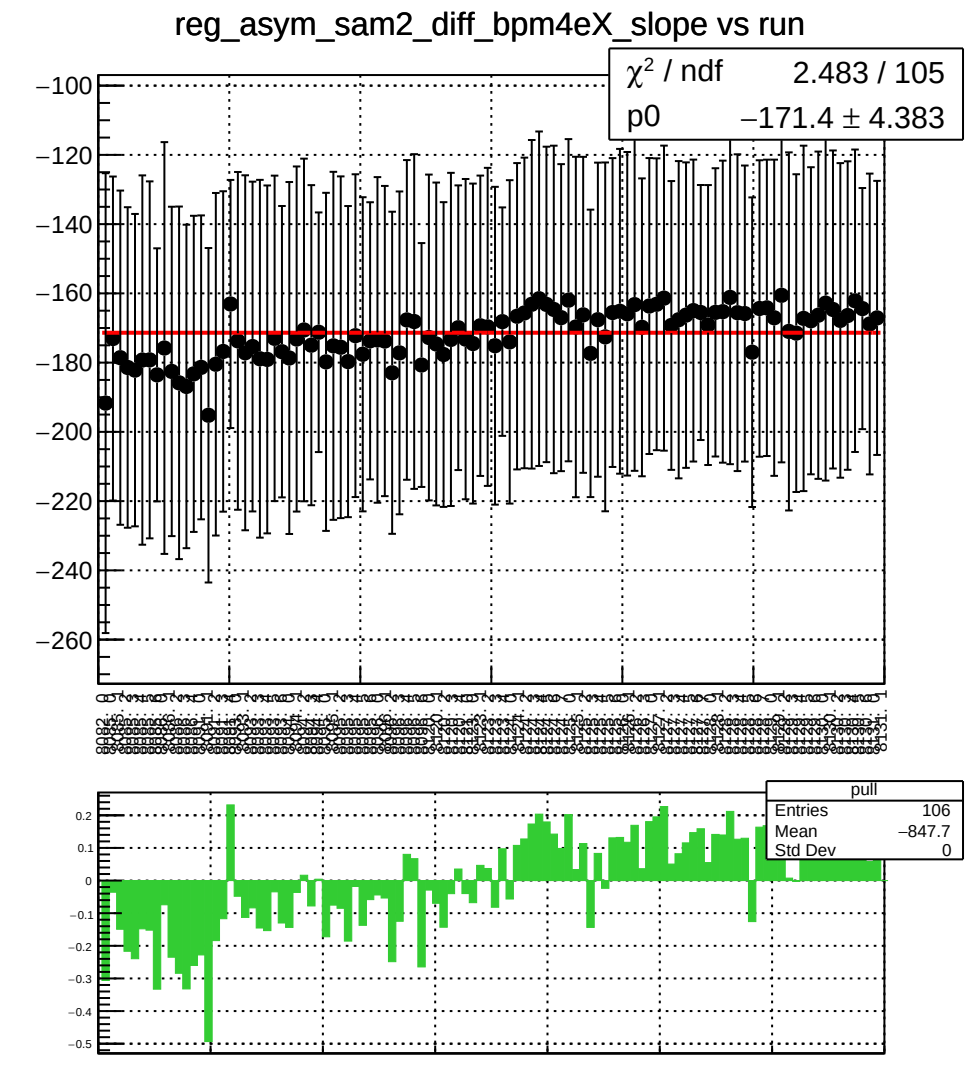

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 72.96 / 105
p0 0.6217 ± 0.02166
pull
Entries 106
Mean −206.8
Std Dev 0

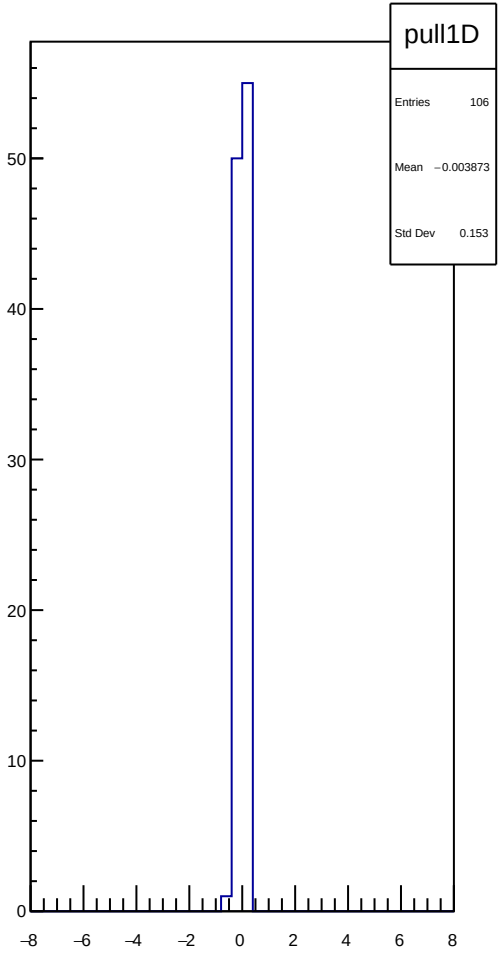

pull1D
Entries 106
Mean −0.03534
Std Dev 0.8289

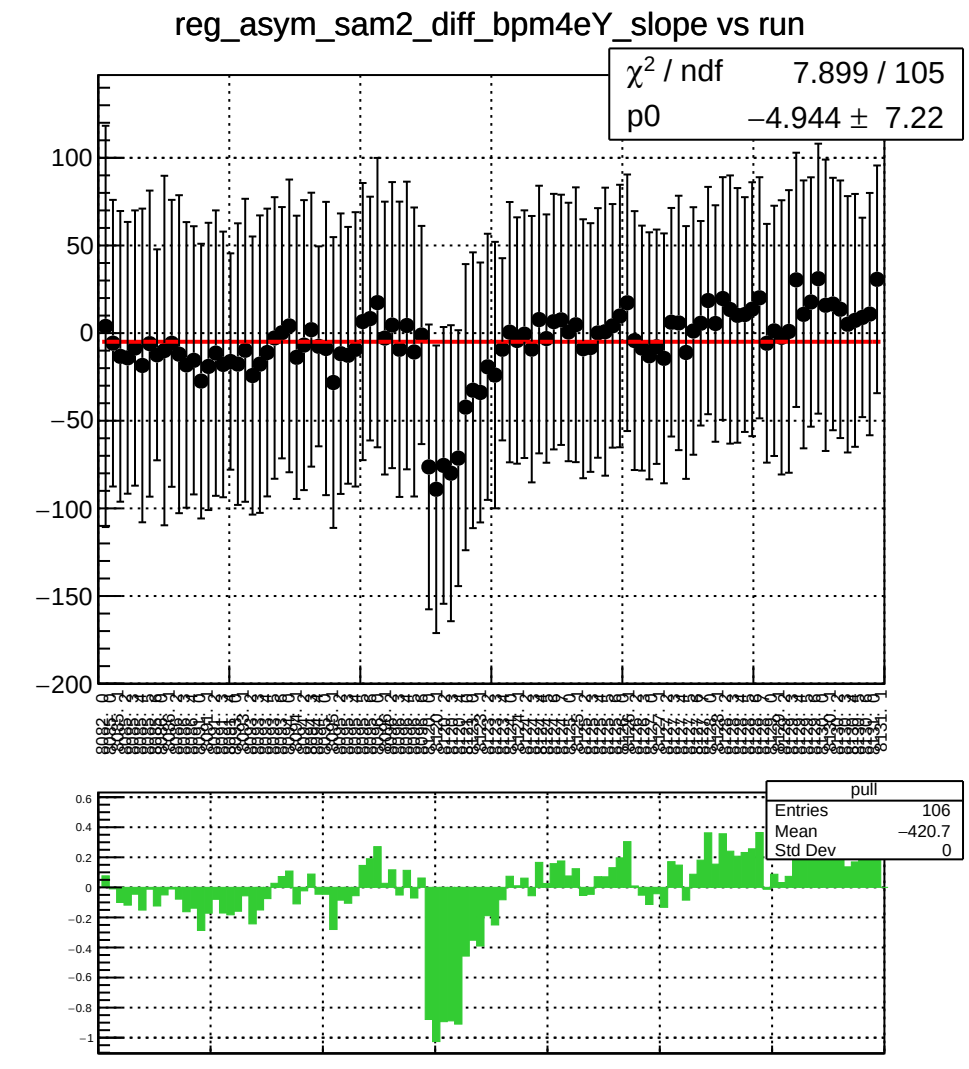

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 2.388 / 105
p0 −41.1 ± 4.613
pull
Entries 106
Mean −1576
Std Dev 0

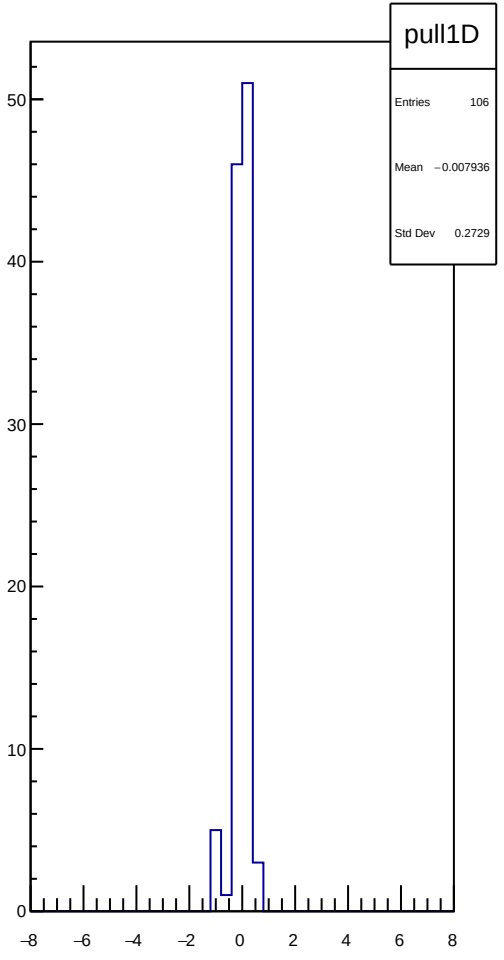

pull1D
Entries 106
Mean 0.002122
Std Dev 0.1501

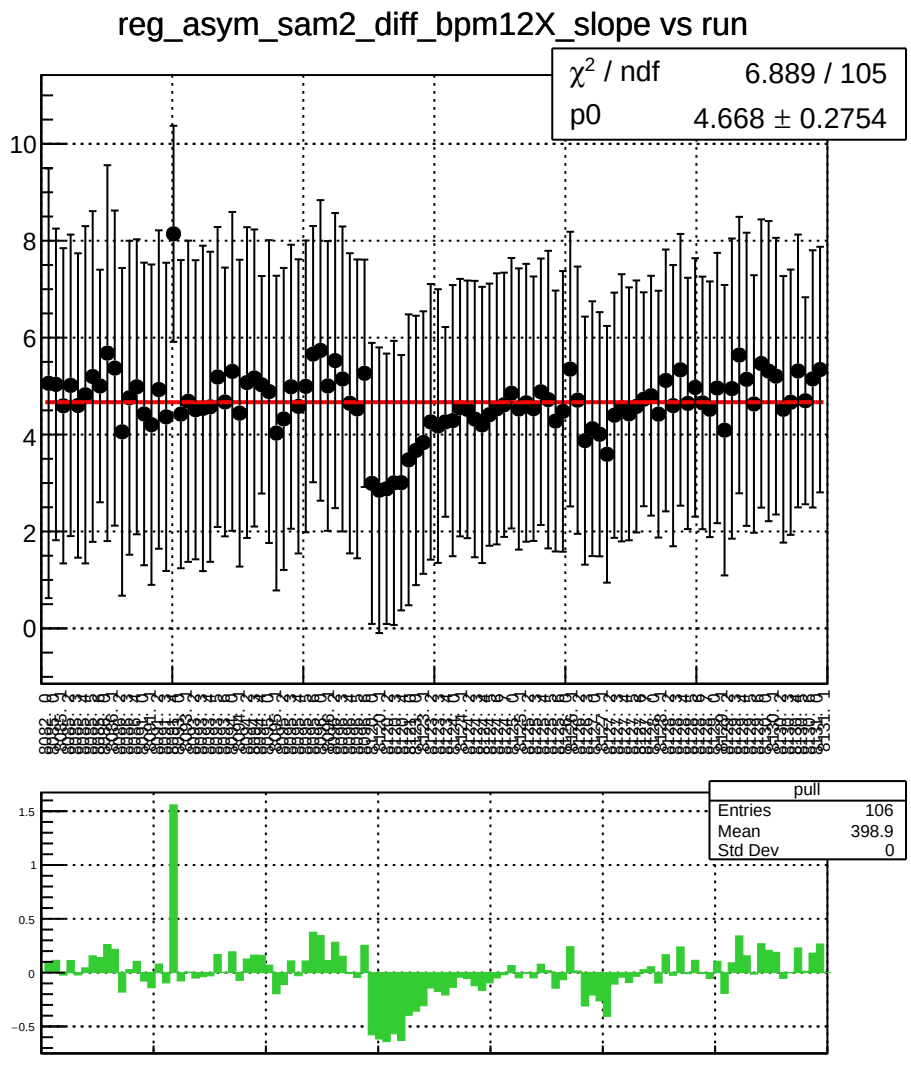

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 7.52 / 105
p0 −181 ± 6.759
pull
Entries 106
Mean −374.9
Std Dev 0
pull1D
Entries 106
Mean 0.007202
Std Dev 0.2663

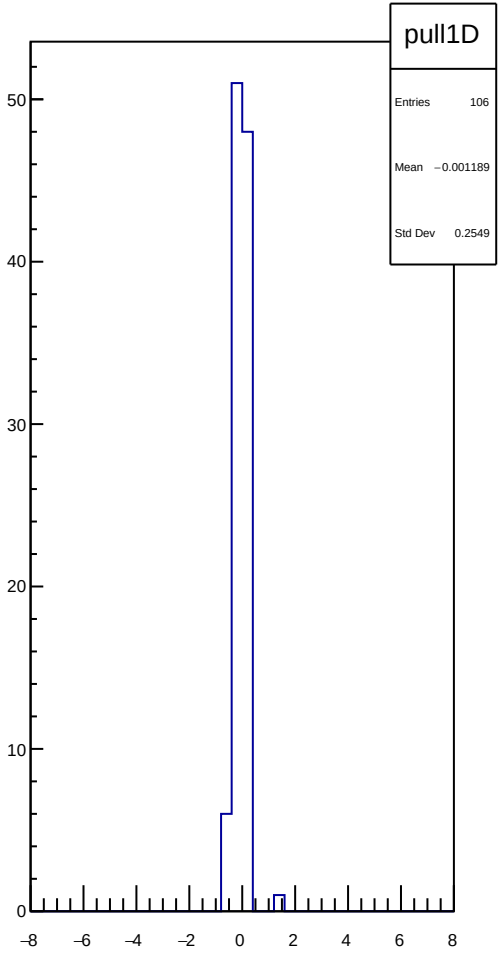

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 2.483 / 105
p0 −171.4 ± 4.383
pull
Entries 106
Mean −847.7
Std Dev 0

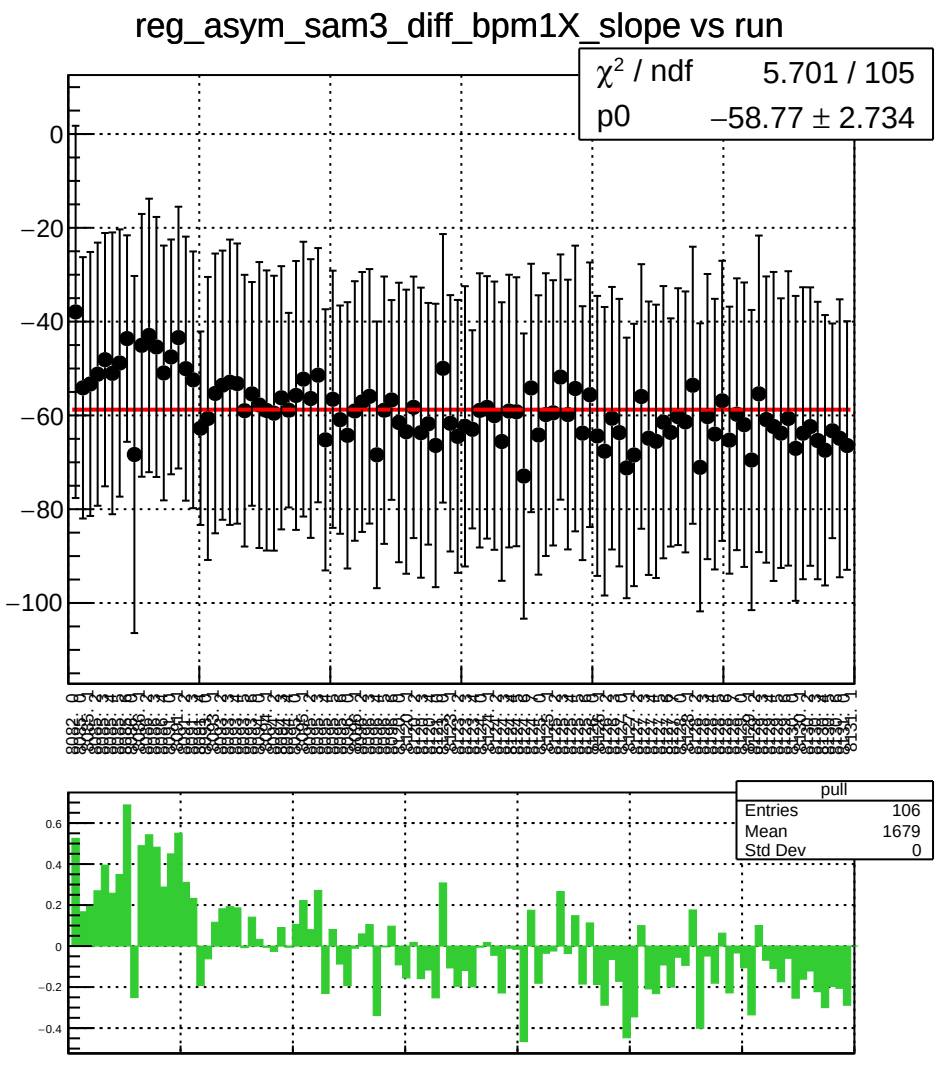

pull1D
Entries 106
Mean −0.003873
Std Dev 0.153

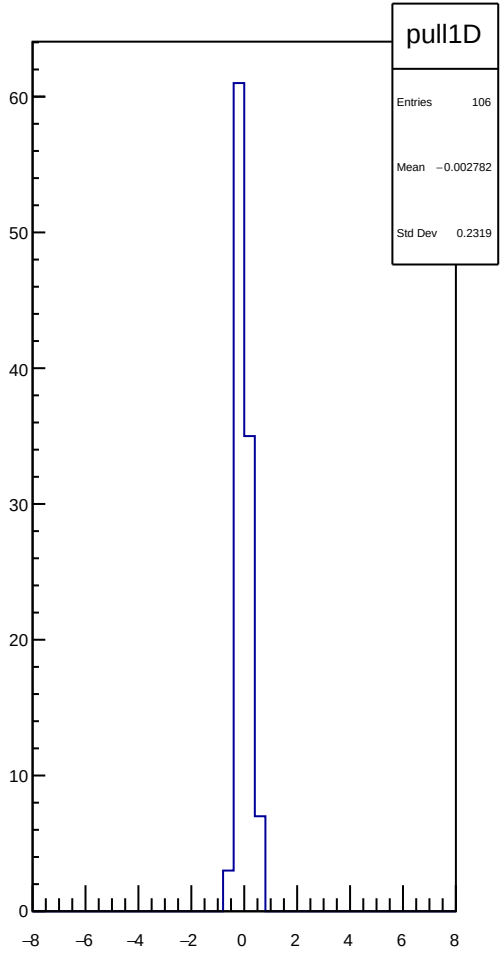

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 7.899 / 105
p0 −4.944 ± 7.22
100
50
0
−50
−100
−150
−200
pull
Entries 106
Mean −420.7
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

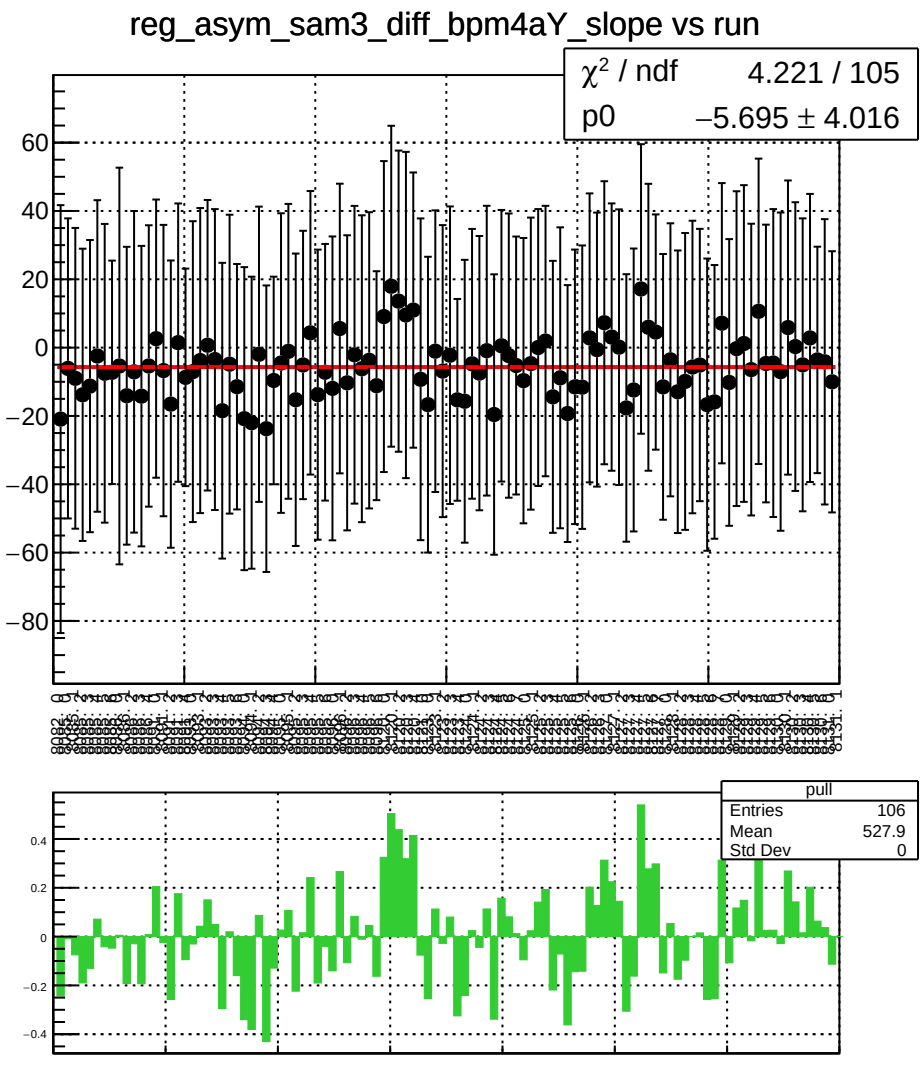

pull1D
Entries 106
Mean −0.007936
Std Dev 0.2729
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

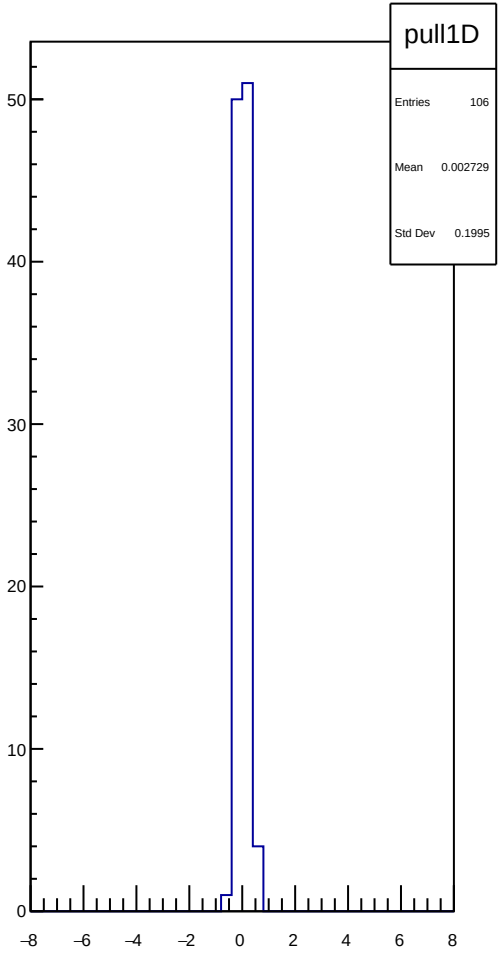

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 6.889 / 105
p0 4.668 ± 0.2754
pull
Entries 106
Mean 398.9
Std Dev 0

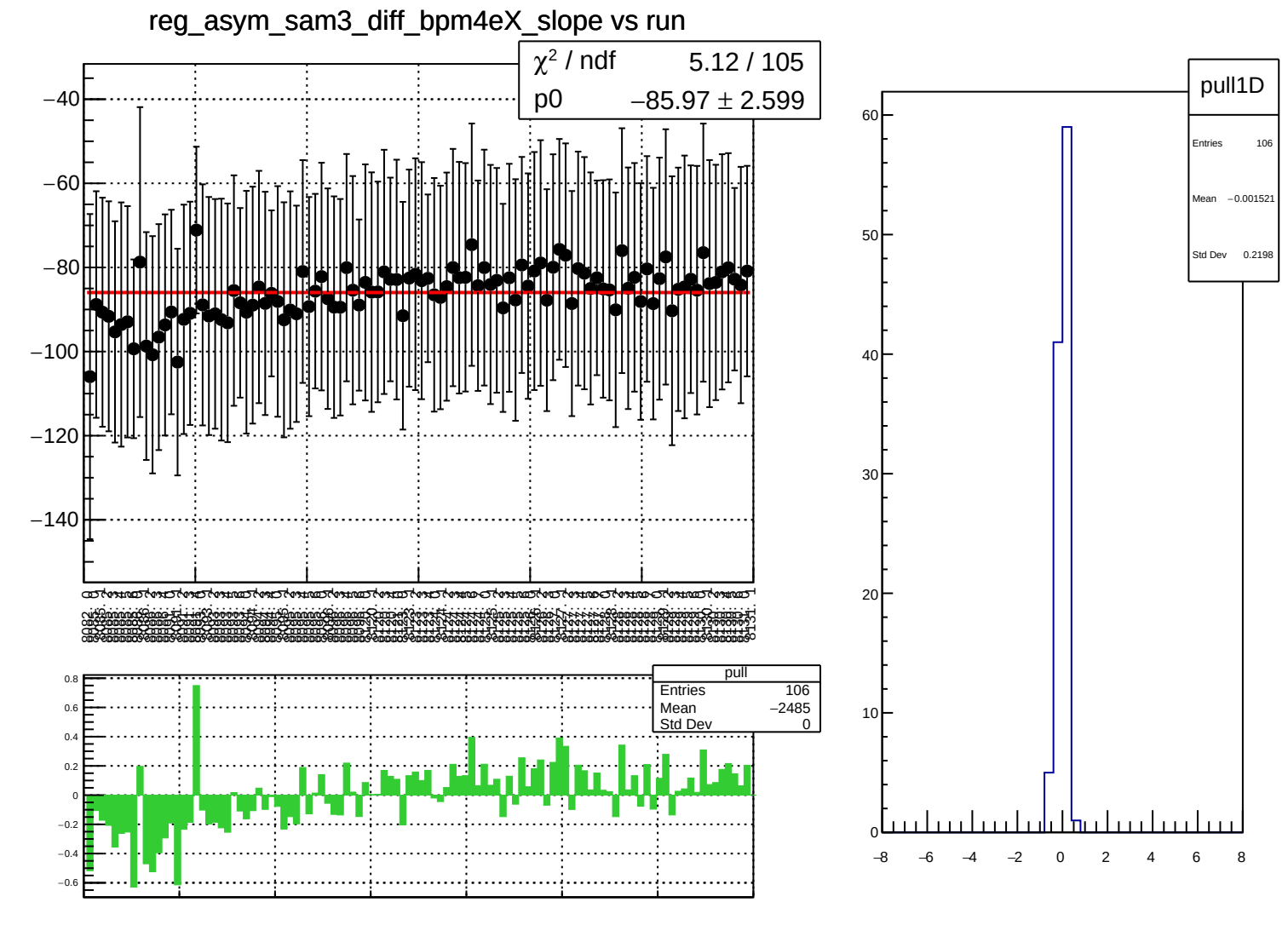

pull1D
Entries 106
Mean −0.001189
Std Dev 0.2549

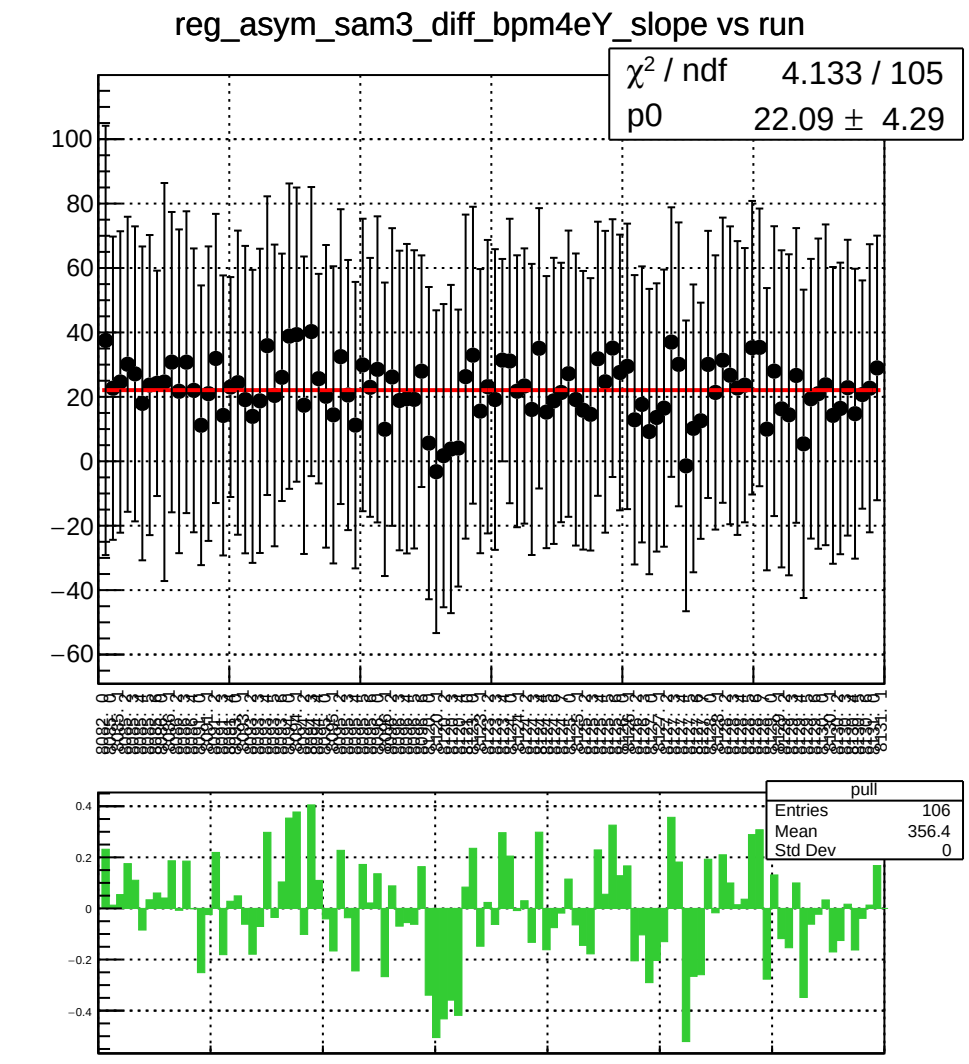

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 5.701 / 105
p0 −58.77 ± 2.734
0
−20
−40
−60
−80
−100
pull
Entries 106
Mean 1679
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4

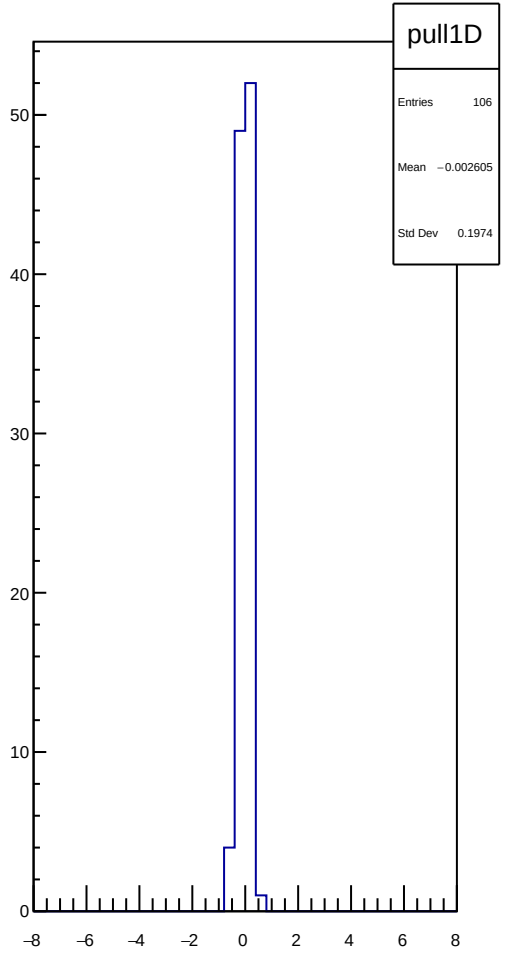

pull1D
Entries 106
Mean −0.002782
Std Dev 0.2319
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

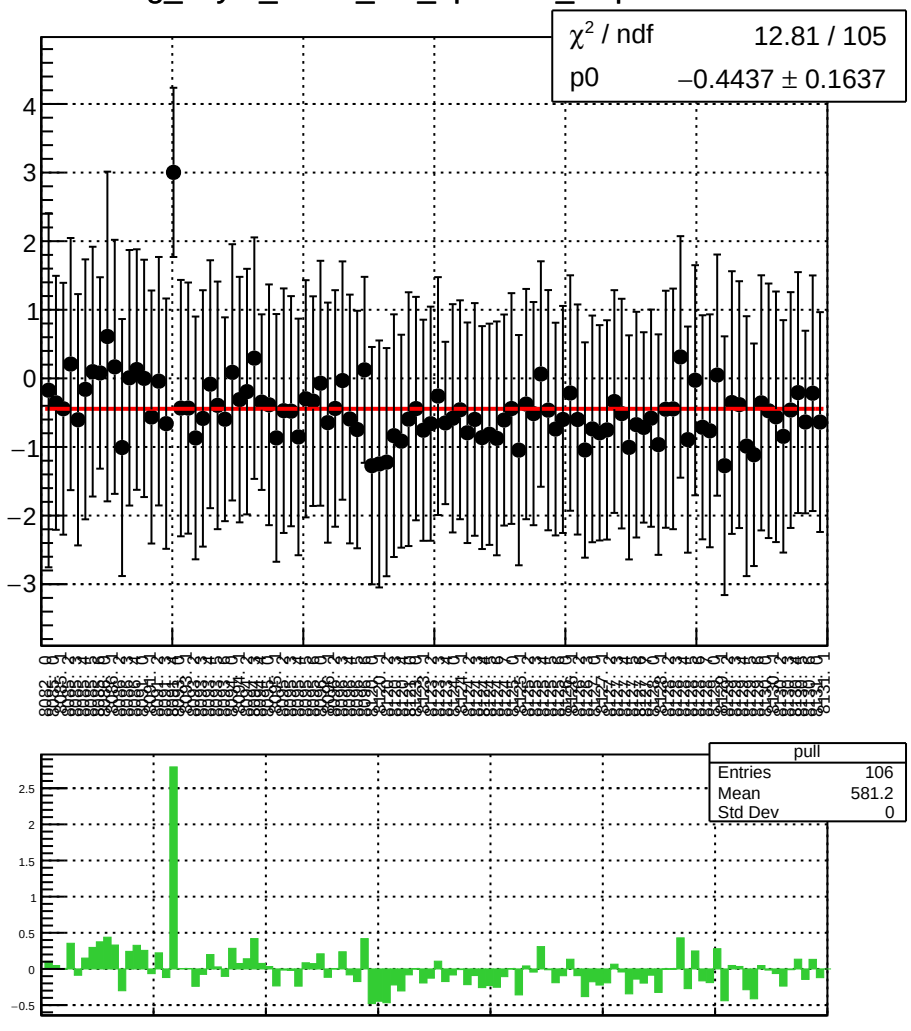

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 4.221 / 105
p0 −5.695 ± 4.016
pull
Entries 106
Mean 527.9
Std Dev 0

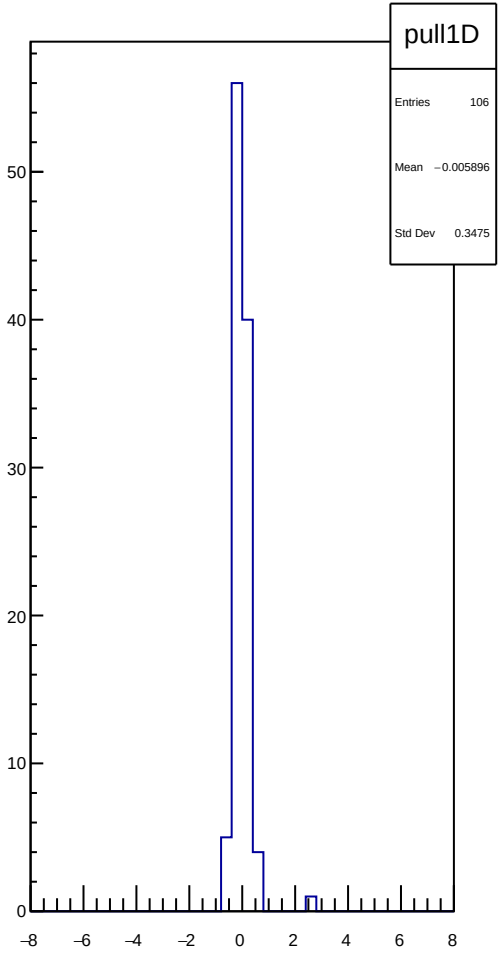

pull1D
Entries 106
Mean 0.002729
Std Dev 0.1995

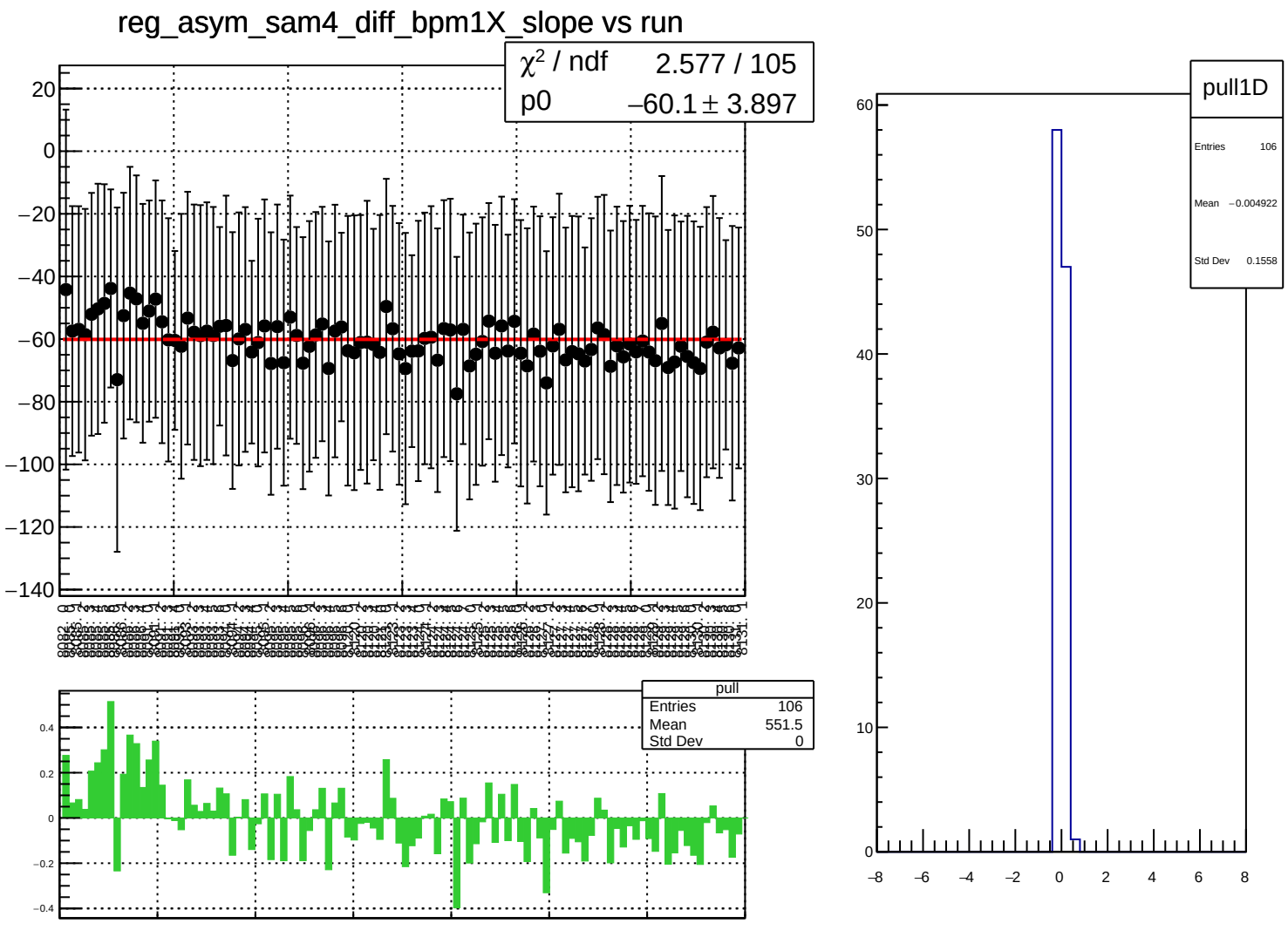

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 5.12 / 105
p0 −85.97 ± 2.599
−40
−60
−80
−100
−120
−140
pull
Entries 106
Mean −2485
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 106
Mean −0.001521
Std Dev 0.2198
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

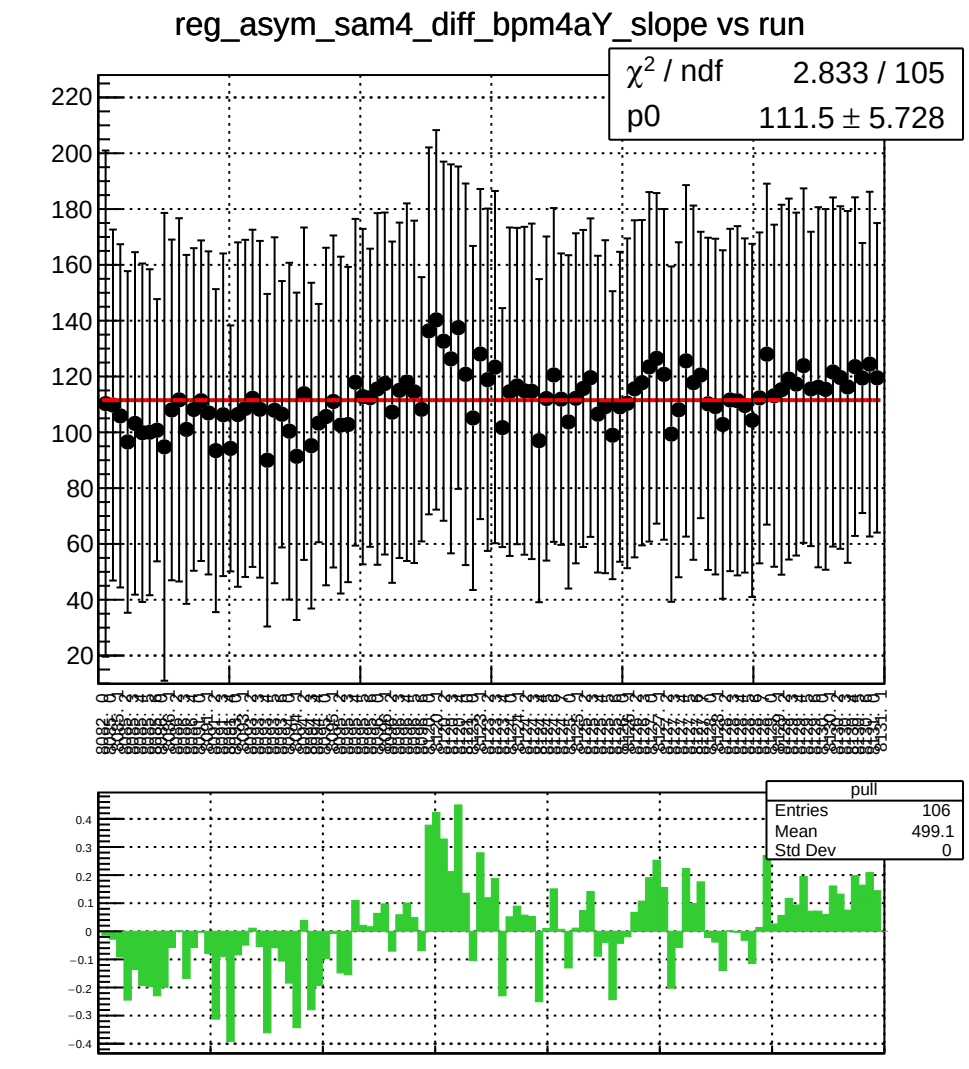

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 4.133 / 105
p0 22.09 ± 4.29
pull
Entries 106
Mean 356.4
Std Dev 0

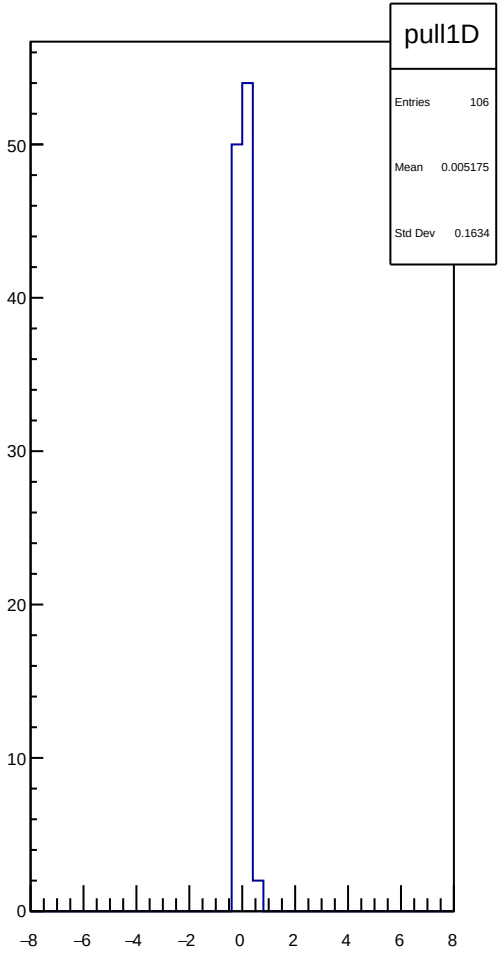

pull1D
Entries 106
Mean −0.002605
Std Dev 0.1974

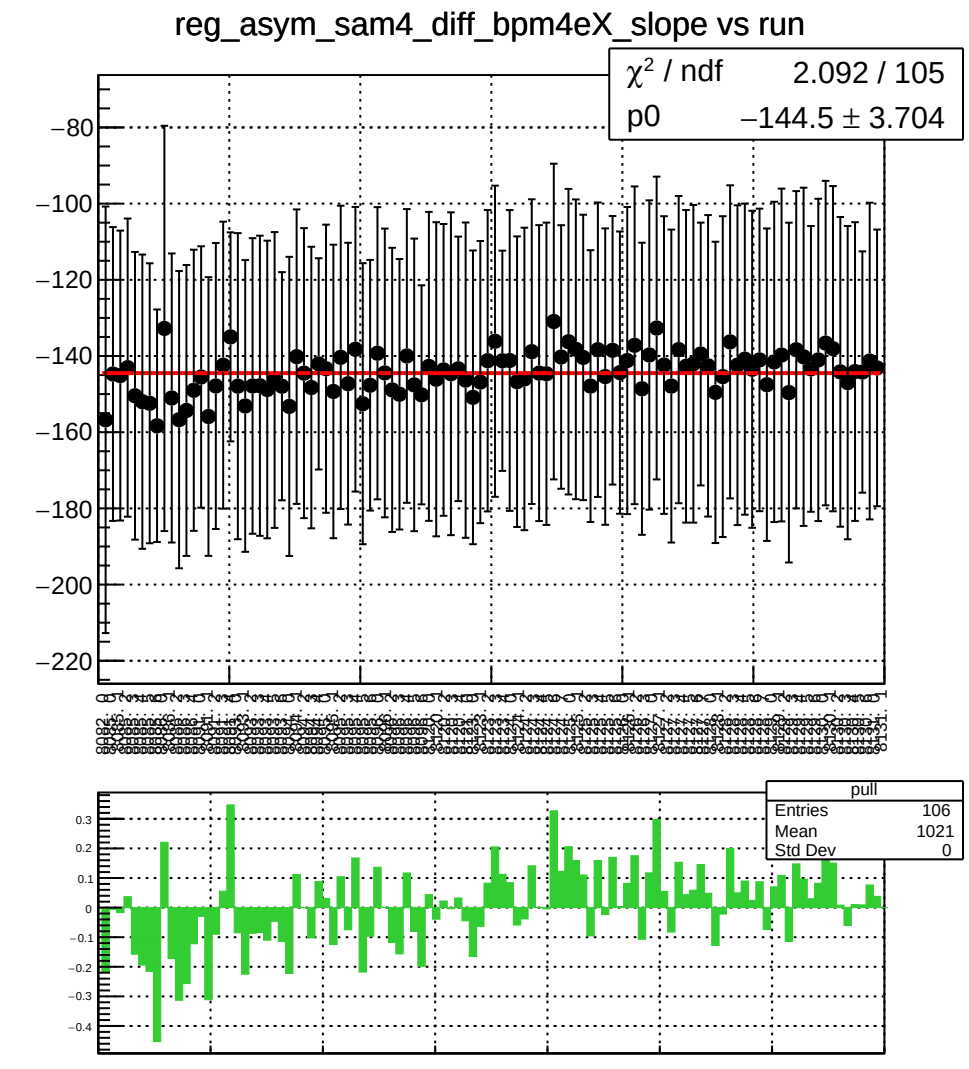

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 12.81 / 105
p0 −0.4437 ± 0.1637
pull
Entries 106
Mean 581.2
Std Dev 0

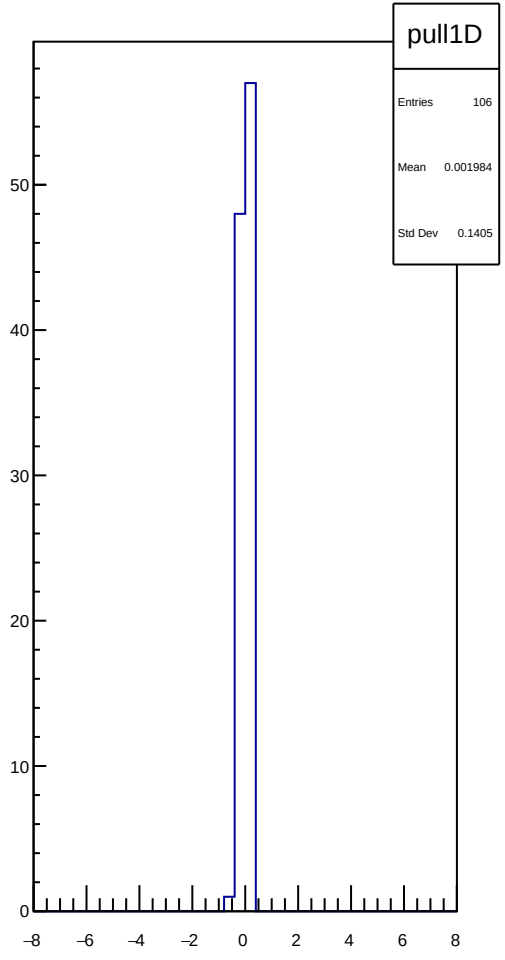

pull1D
Entries 106
Mean −0.005896
Std Dev 0.3475

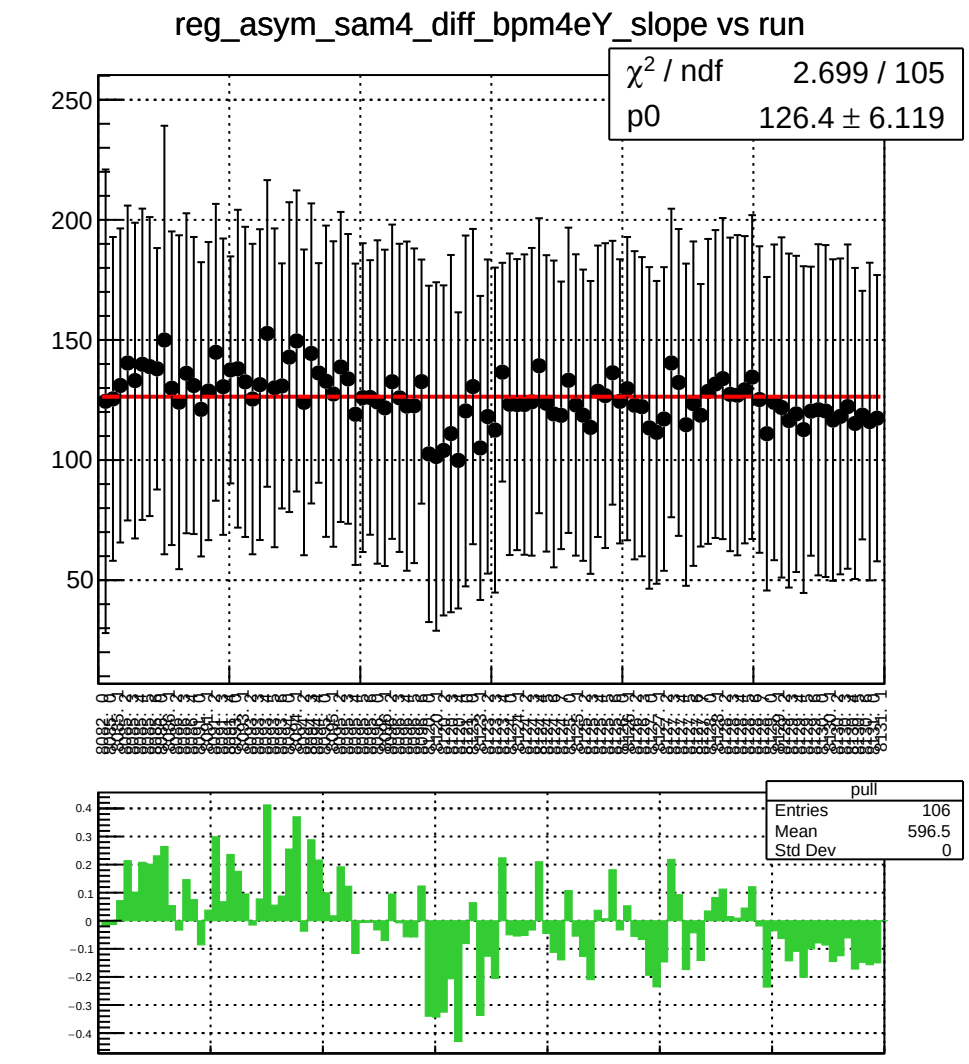

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 2.577 / 105
p0 −60.1 ± 3.897
pull
Entries 106
Mean 551.5
Std Dev 0
pull1D
Entries 106
Mean −0.004922
Std Dev 0.1558

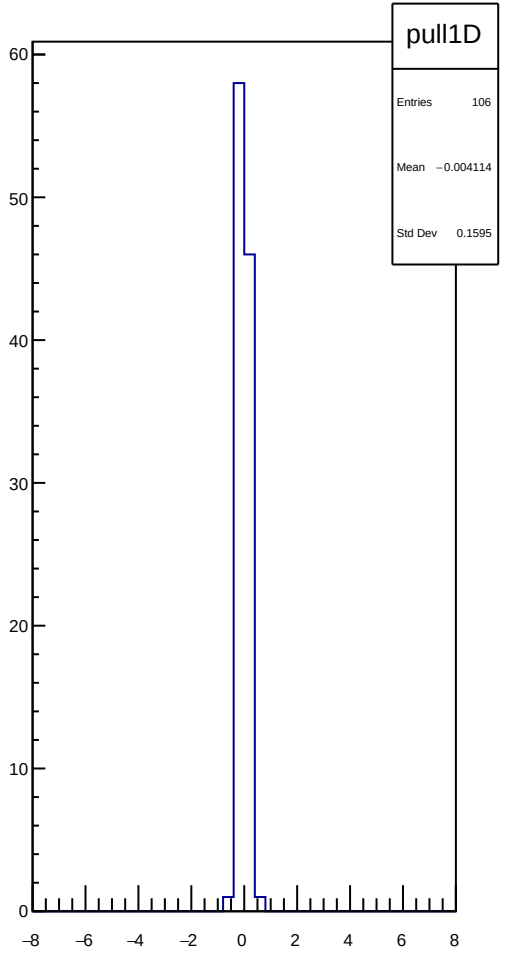

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 2.833 / 105
p0 111.5 ± 5.728
pull
Entries 106
Mean 499.1
Std Dev 0

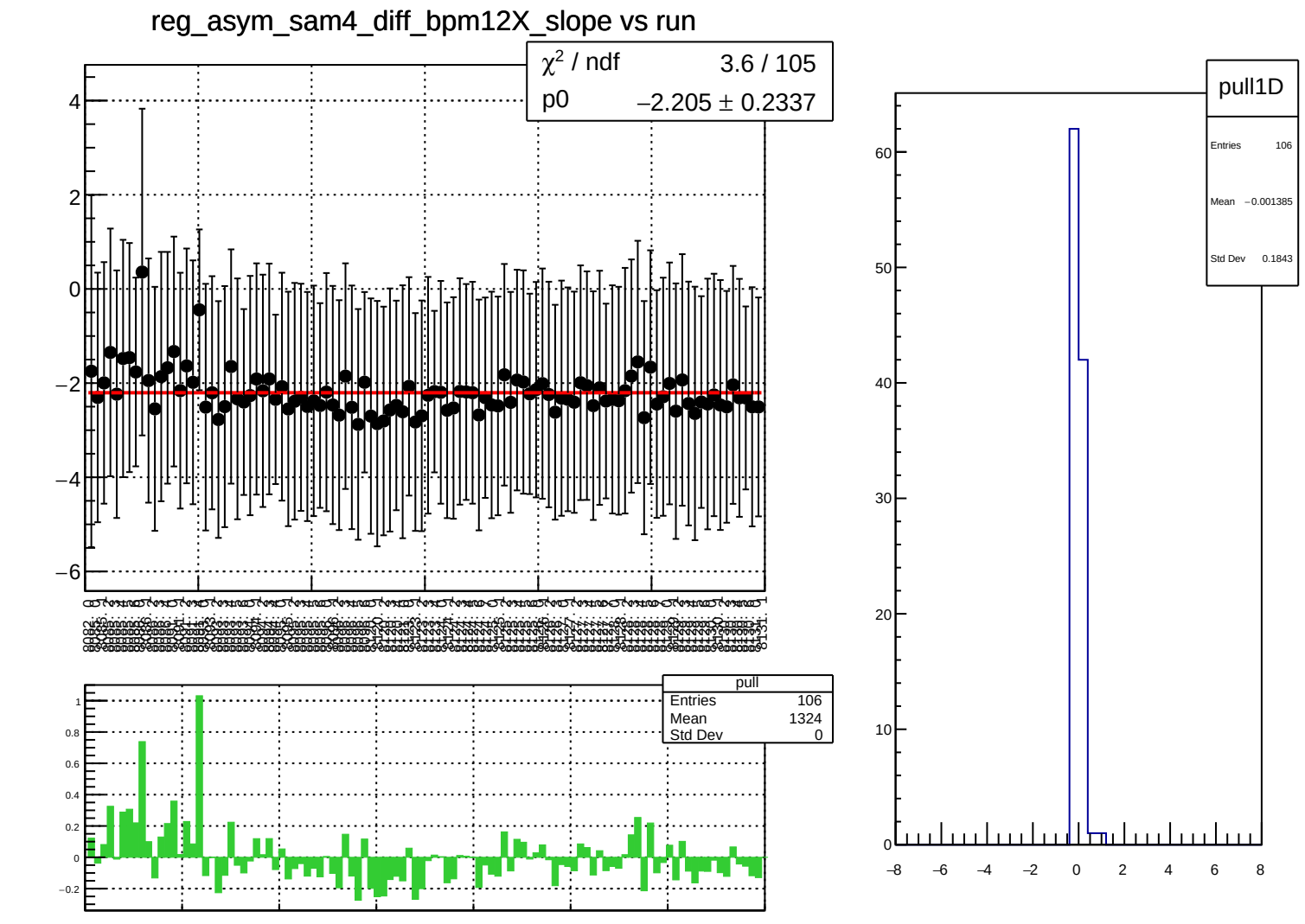

pull1D
Entries 106
Mean 0.005175
Std Dev 0.1634

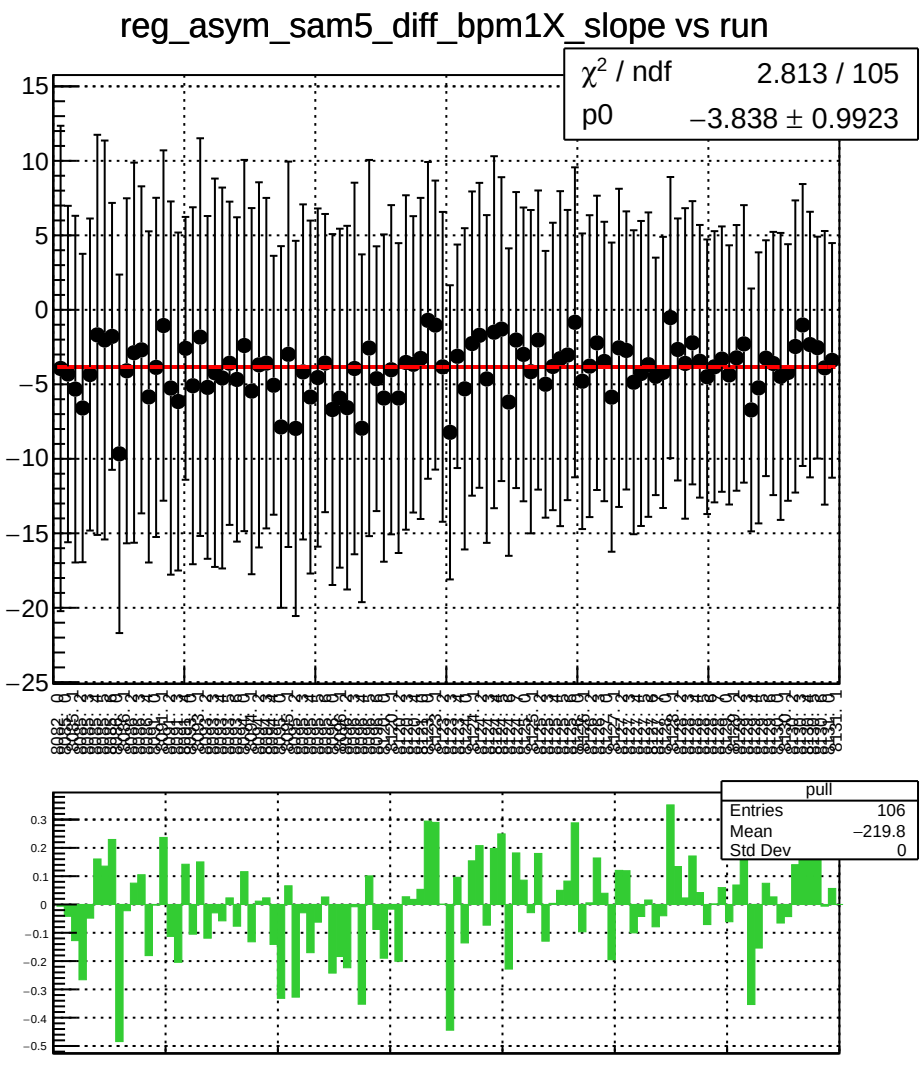

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 2.092 / 105
p0 −144.5 ± 3.704
−80
−100
−120
−140
−160
−180
−200
−220
pull
Entries 106
Mean 1021
Std Dev 0
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

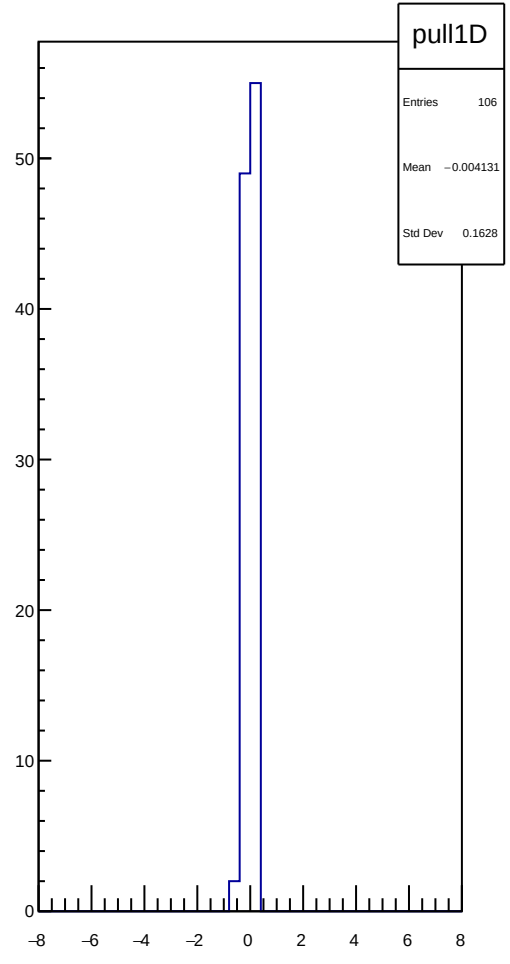

pull1D
Entries 106
Mean 0.001984
Std Dev 0.1405
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

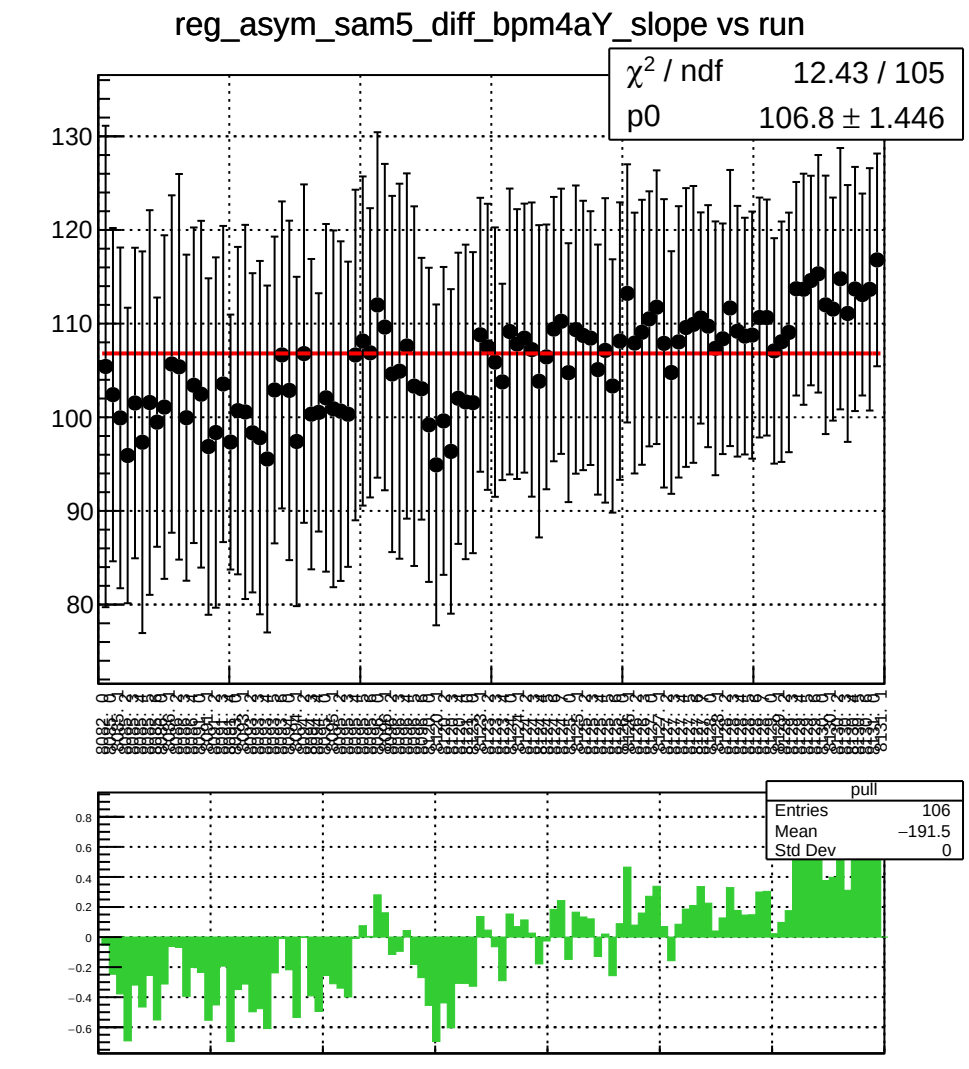

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 2.699 / 105
p0 126.4 ± 6.119
250
200
150
100
50
pull
Entries 106
Mean 596.5
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

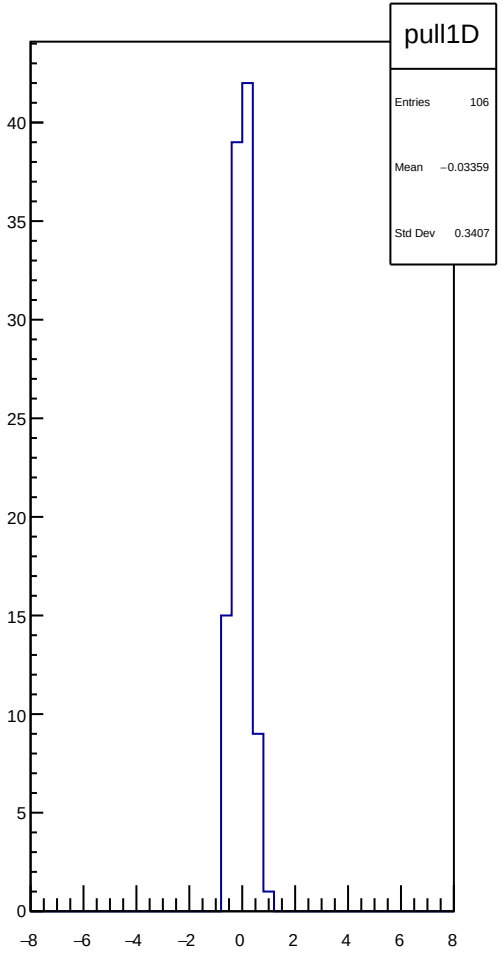

pull1D
Entries 106
Mean −0.004114
Std Dev 0.1595
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

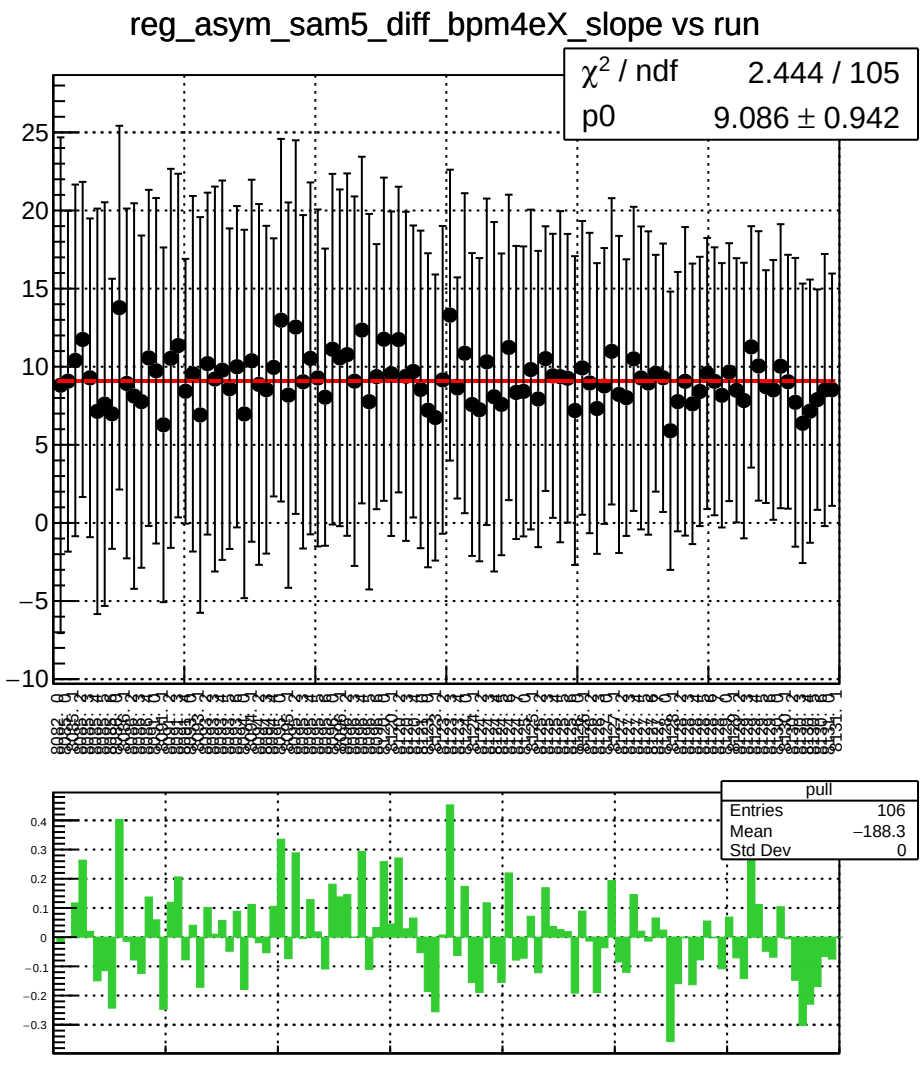

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 3.6 / 105
p0 −2.205 ± 0.2337
pull
Entries 106
Mean 1324
Std Dev 0
pull1D
Entries 106
Mean −0.001385
Std Dev 0.1843

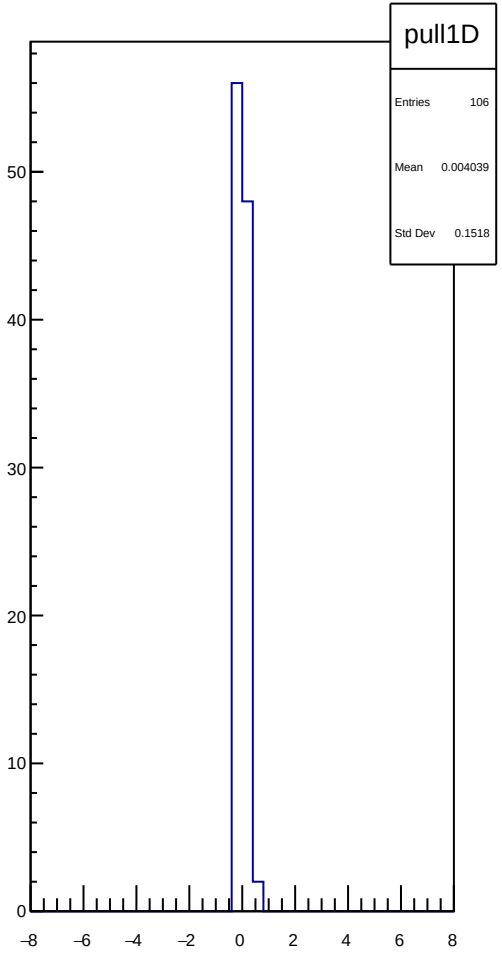

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 2.813 / 105
p0 −3.838 ± 0.9923
pull
Entries 106
Mean −219.8
Std Dev 0

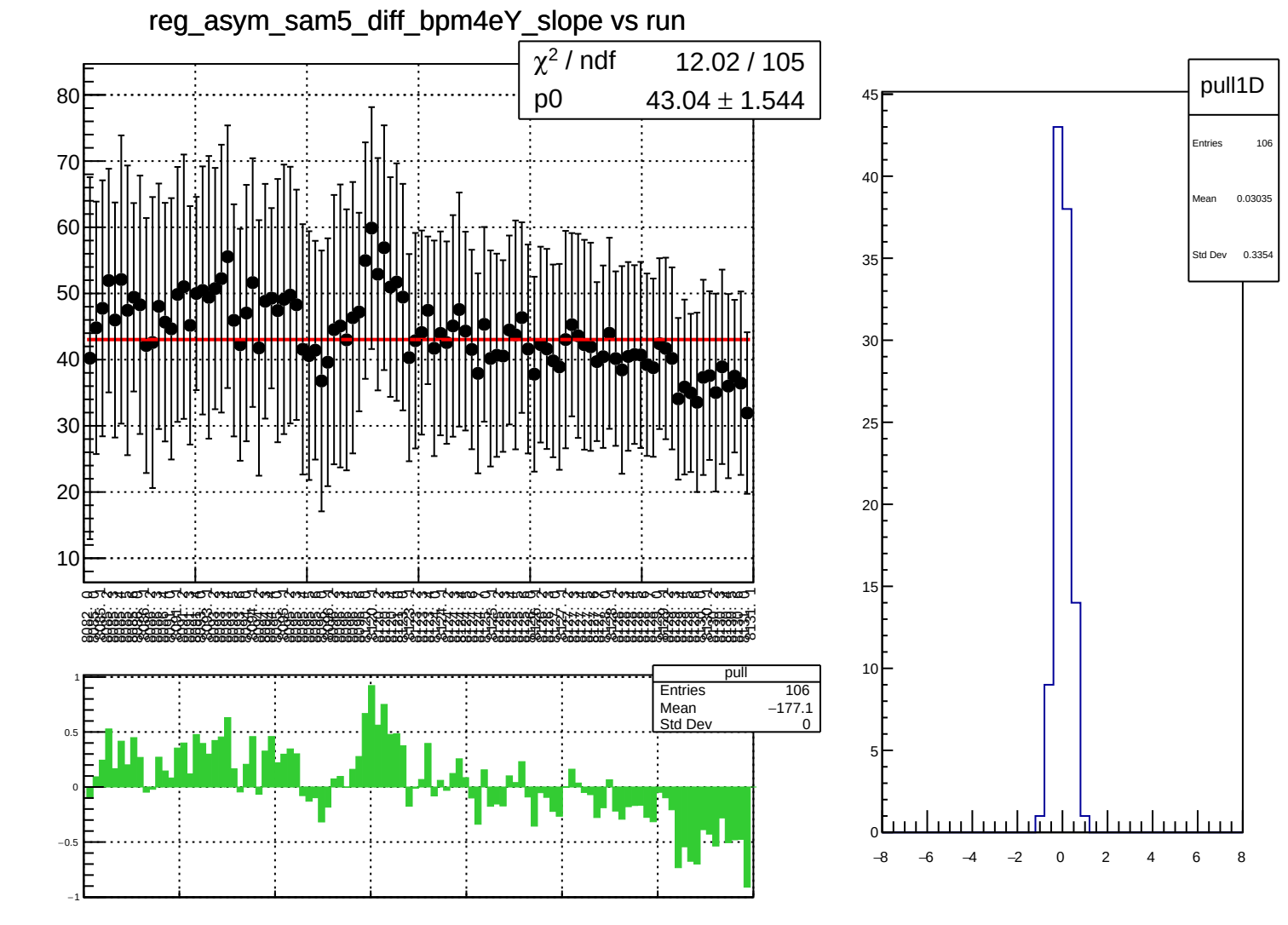

pull1D
Entries 106
Mean −0.004131
Std Dev 0.1628

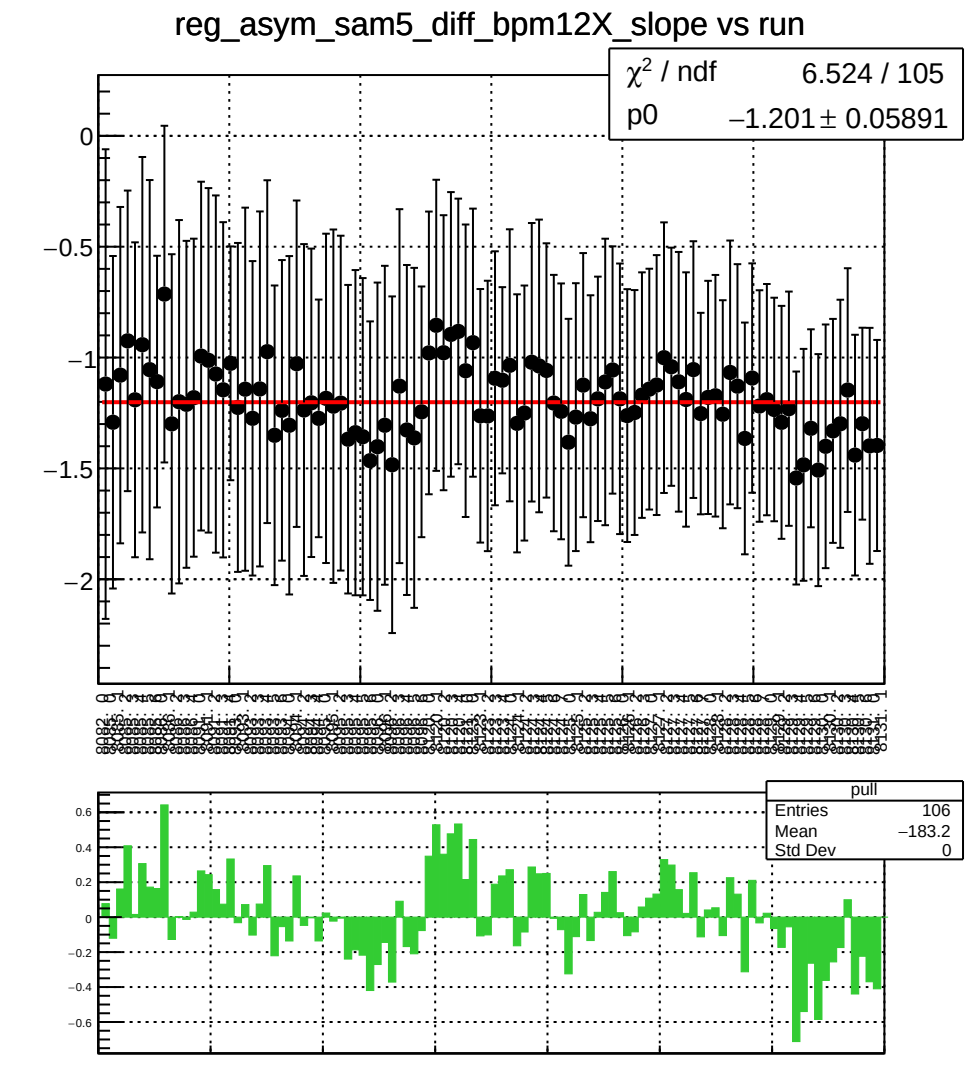

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 12.43 / 105
p0 106.8 ± 1.446
130
120
110
100
90
80
pull
Entries 106
Mean −191.5
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

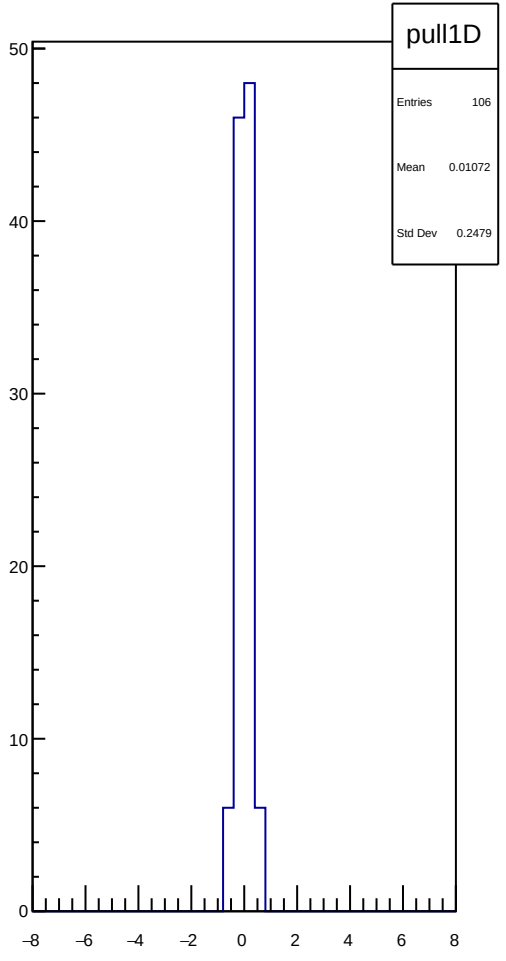

pull1D
Entries 106
Mean −0.03359
Std Dev 0.3407
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

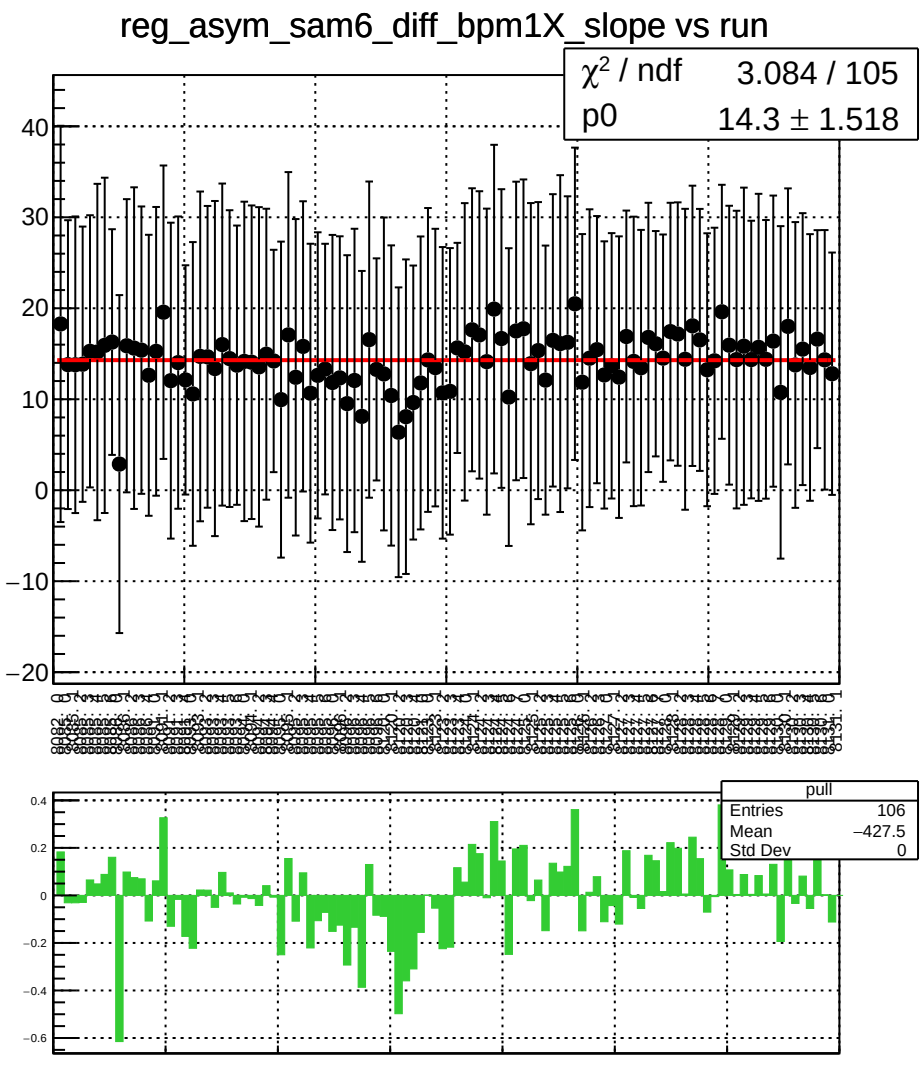

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 2.444 / 105
p0 9.086 ± 0.942
pull
Entries 106
Mean −188.3
Std Dev 0

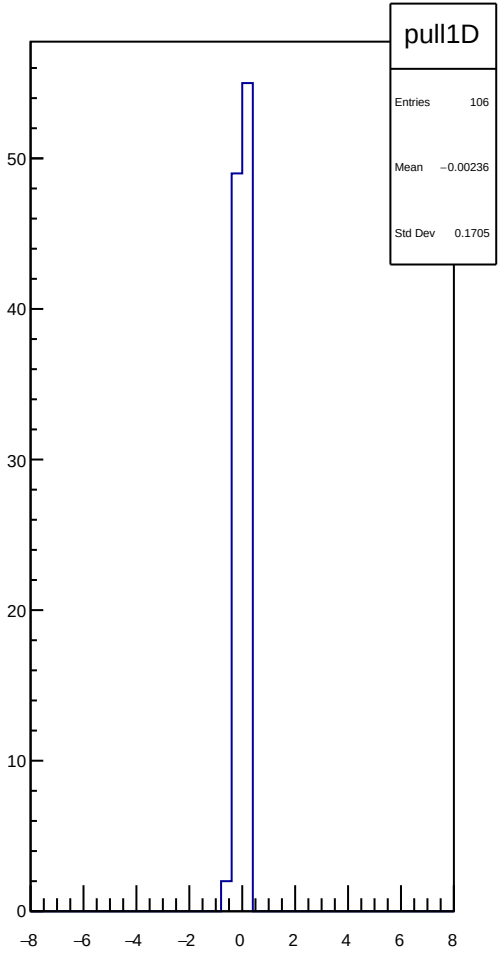

pull1D
Entries 106
Mean 0.004039
Std Dev 0.1518

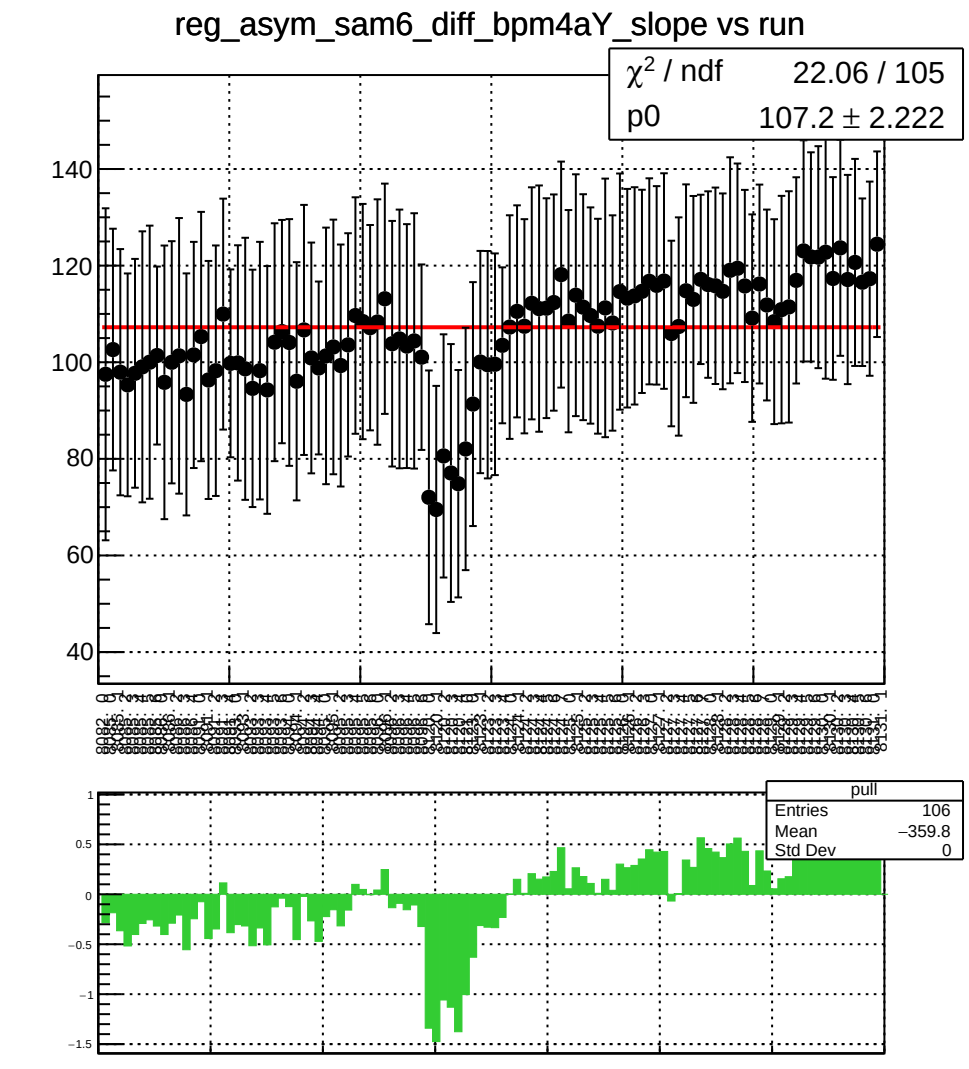

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 12.02 / 105
p0 43.04 ± 1.544
pull
Entries 106
Mean −177.1
Std Dev 0
pull1D
Entries 106
Mean 0.03035
Std Dev 0.3354

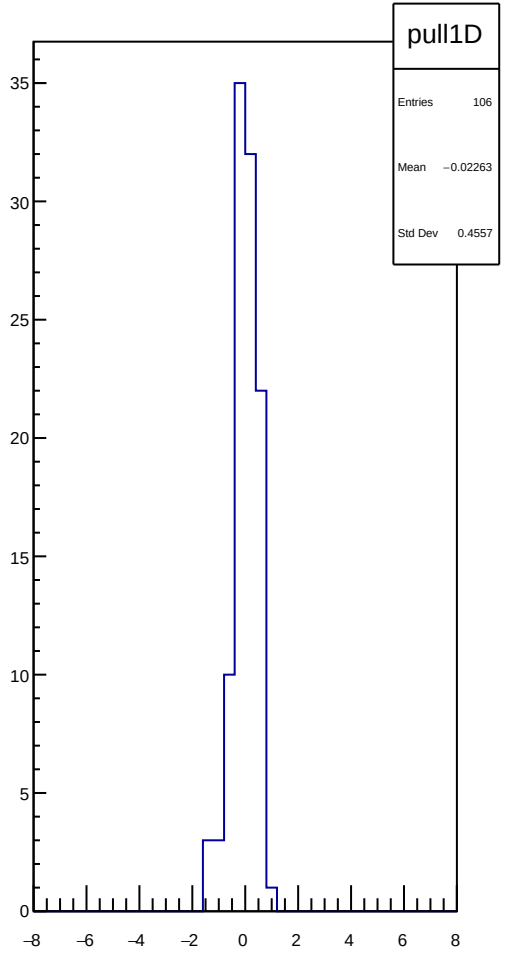

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 6.524 / 105
p0 −1.201 ± 0.05891
0
−0.5
−1
−1.5
−2
pull
Entries 106
Mean −183.2
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

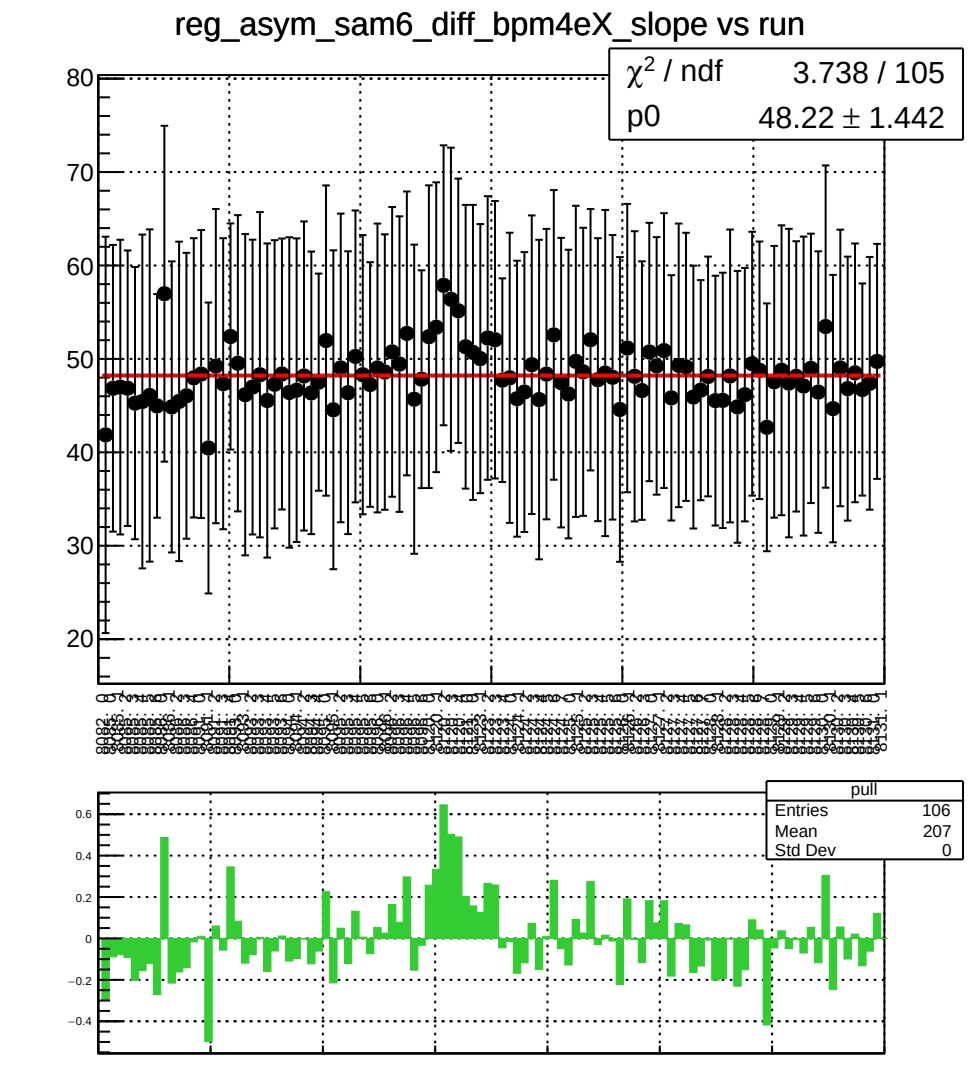

pull1D
Entries 106
Mean 0.01072
Std Dev 0.2479
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

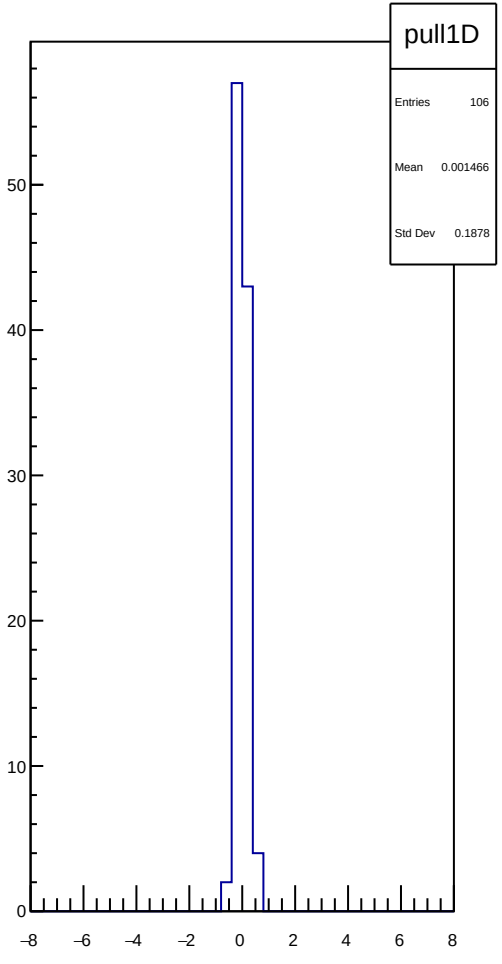

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 3.084 / 105
p0 14.3 ± 1.518
pull
Entries 106
Mean −427.5
Std Dev 0

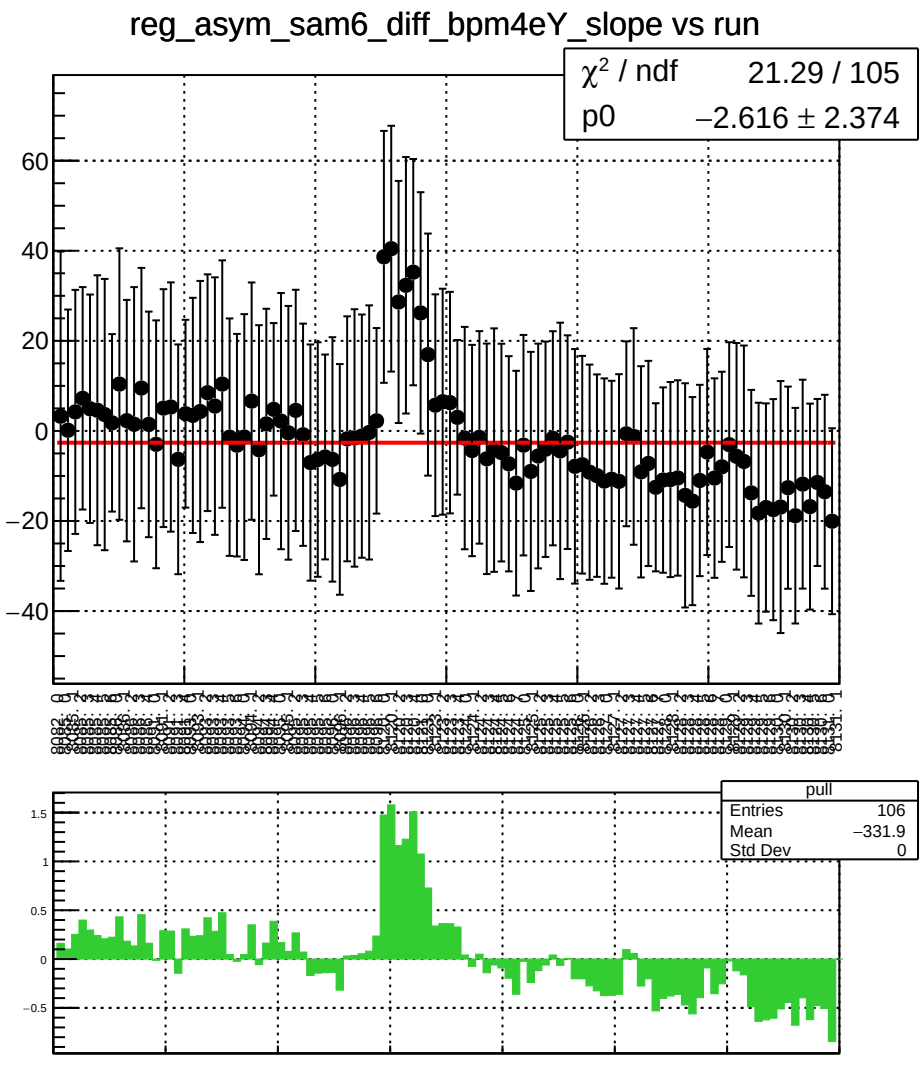

pull1D
Entries 106
Mean −0.00236
Std Dev 0.1705

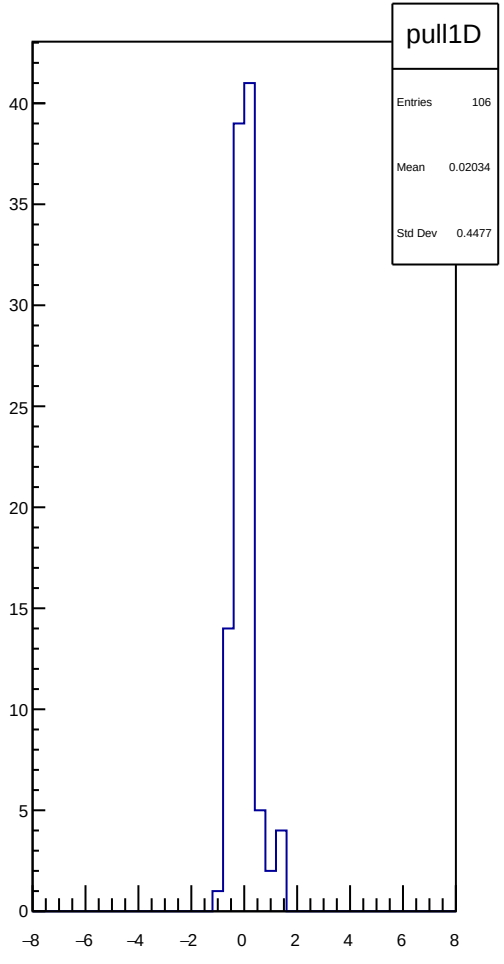

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 22.06 / 105
p0 107.2 ± 2.222
140
120
100
80
60
40
pull
Entries 106
Mean −359.8
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

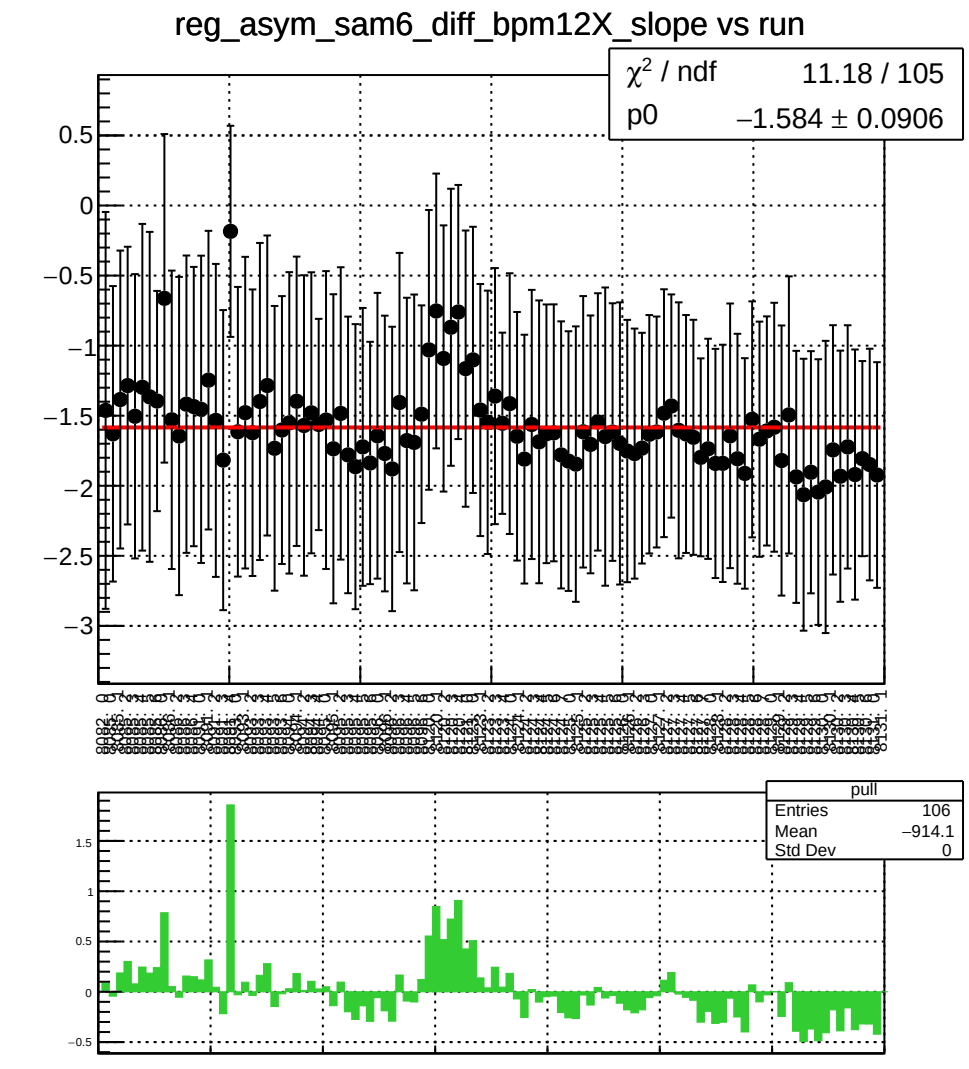

pull1D
Entries 106
Mean −0.02263
Std Dev 0.4557
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

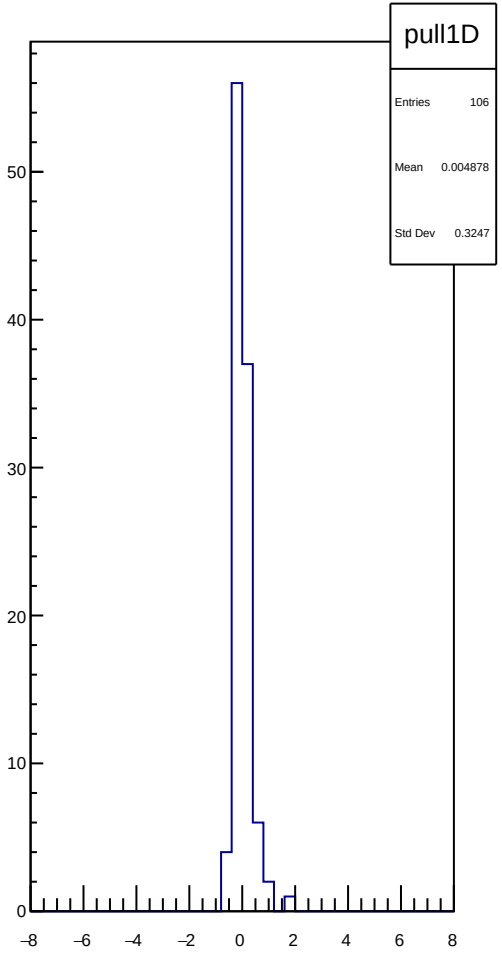

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 3.738 / 105
p0 48.22 ± 1.442
pull
Entries 106
Mean 207
Std Dev 0

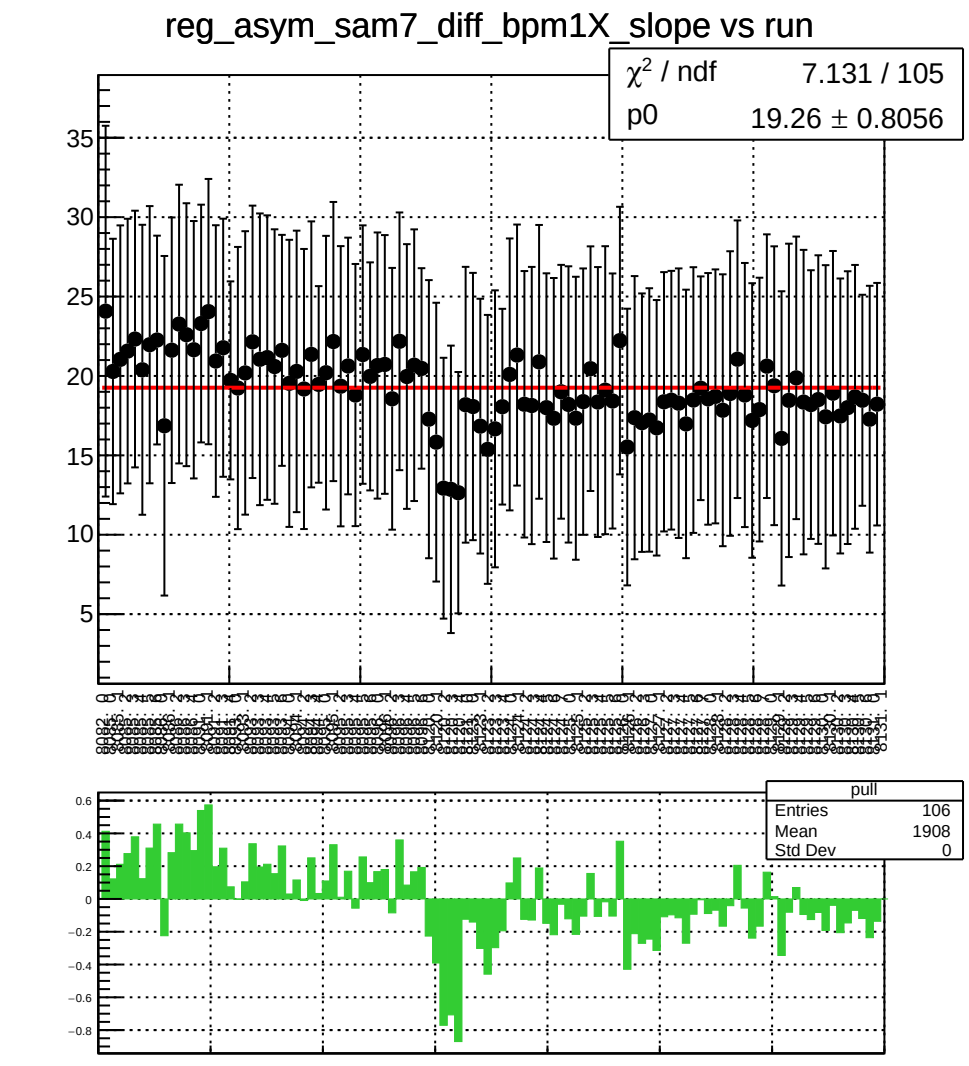

pull1D
Entries 106
Mean 0.001466
Std Dev 0.1878

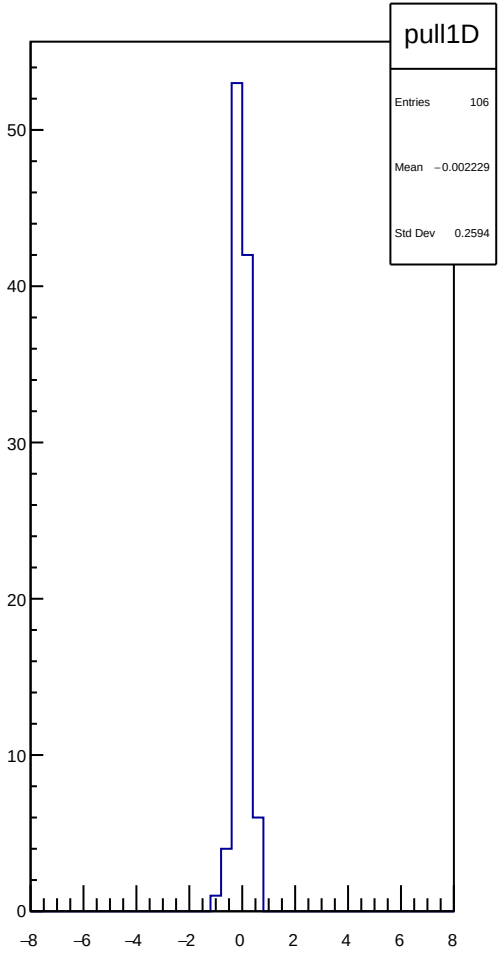

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 21.29 / 105
p0 −2.616 ± 2.374
60
40
20
0
−20
−40
pull
Entries 106
Mean −331.9
Std Dev 0
1.5
1
0.5
0
−0.5

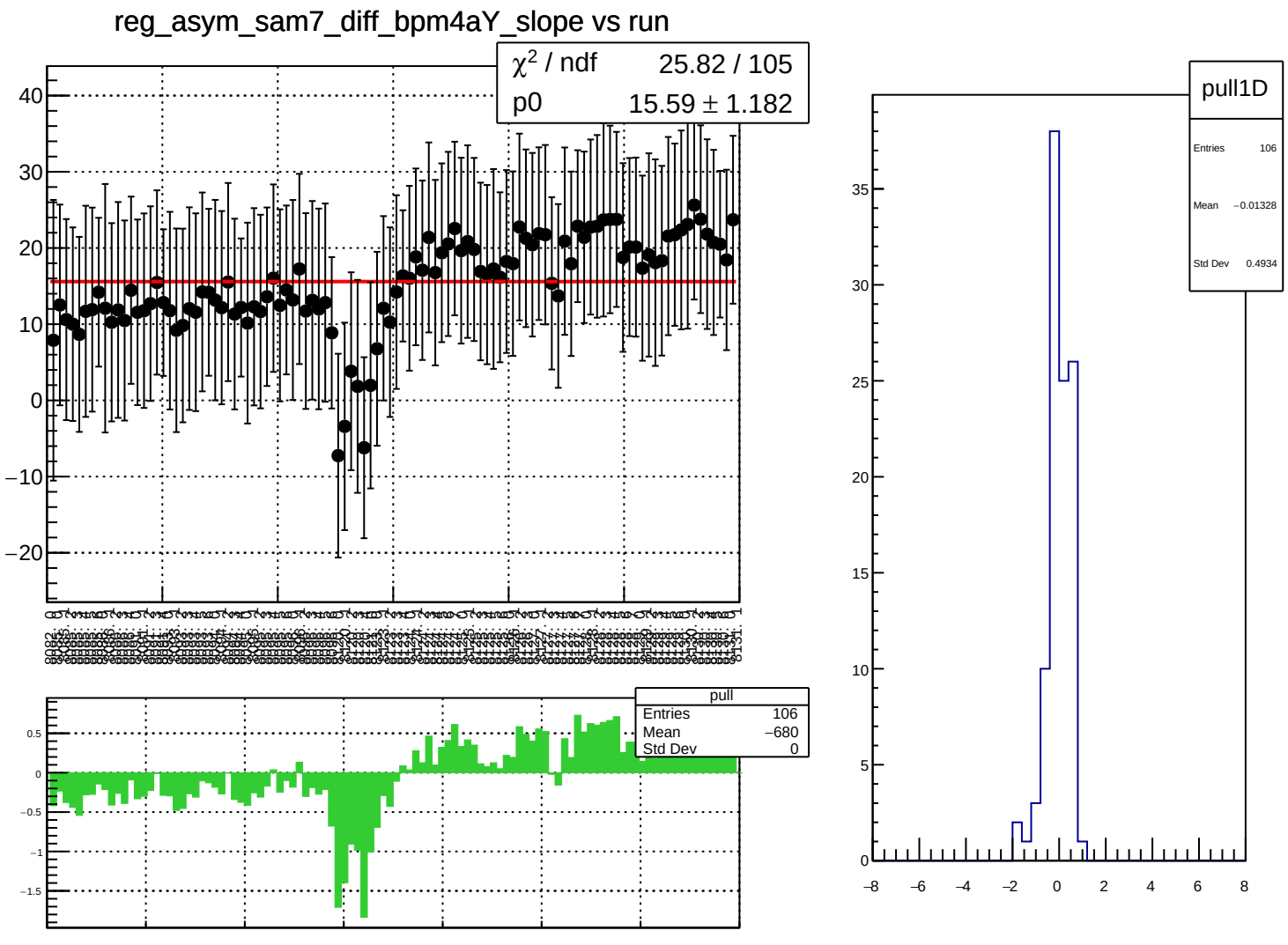

pull1D
Entries 106
Mean 0.02034
Std Dev 0.4477
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

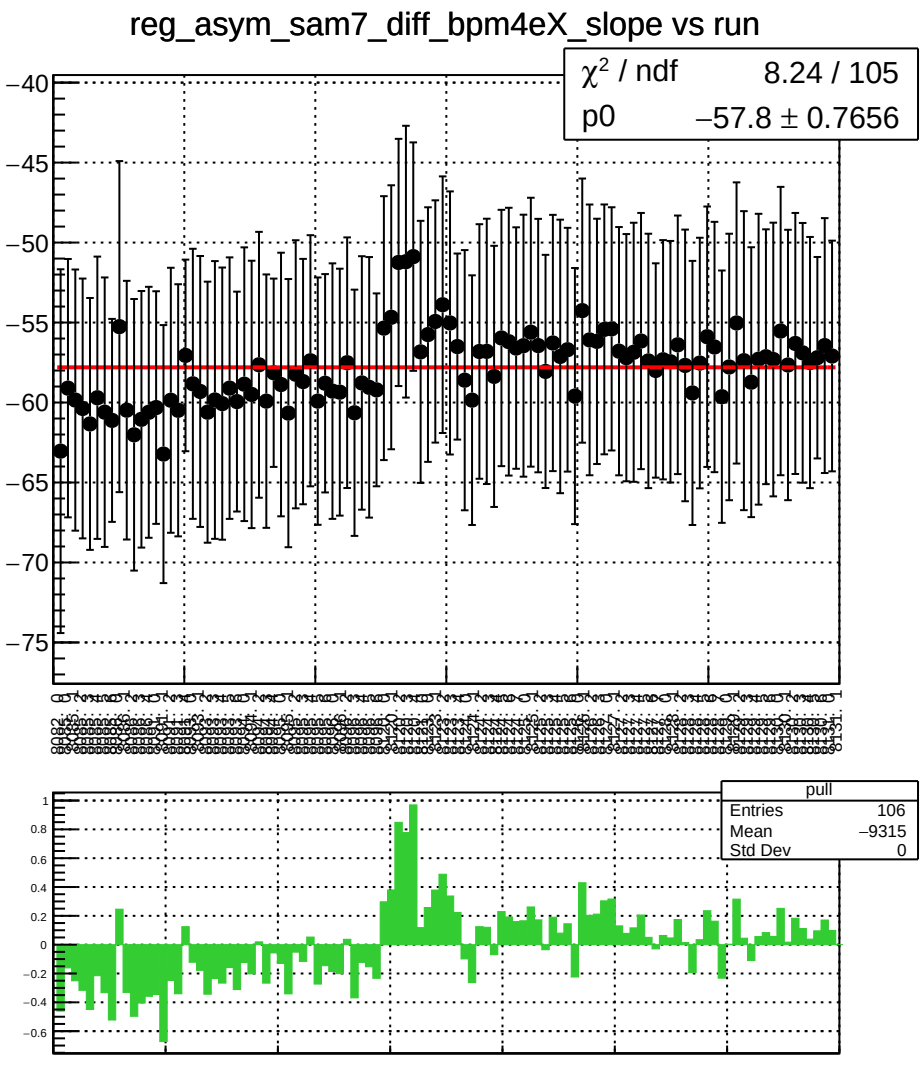

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 11.18 / 105
p0 −1.584 ± 0.0906
pull
Entries 106
Mean −914.1
Std Dev 0

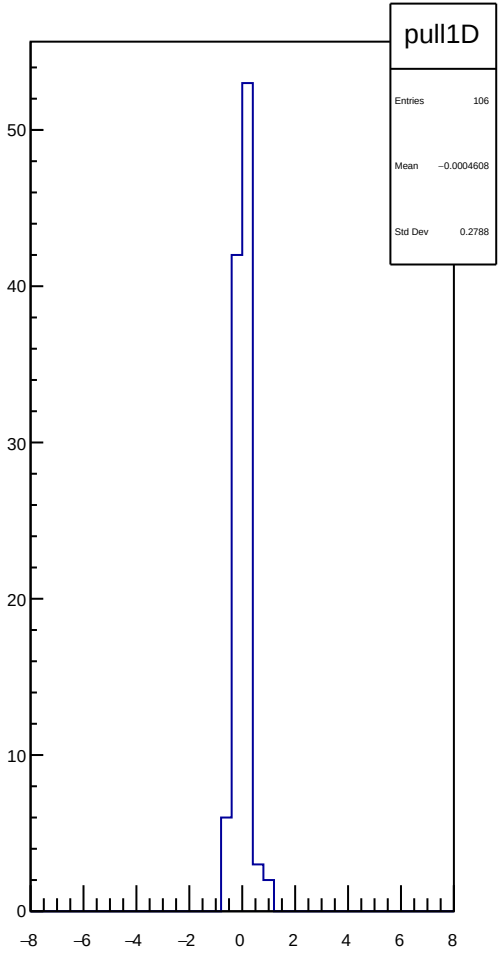

pull1D
Entries 106
Mean 0.004878
Std Dev 0.3247

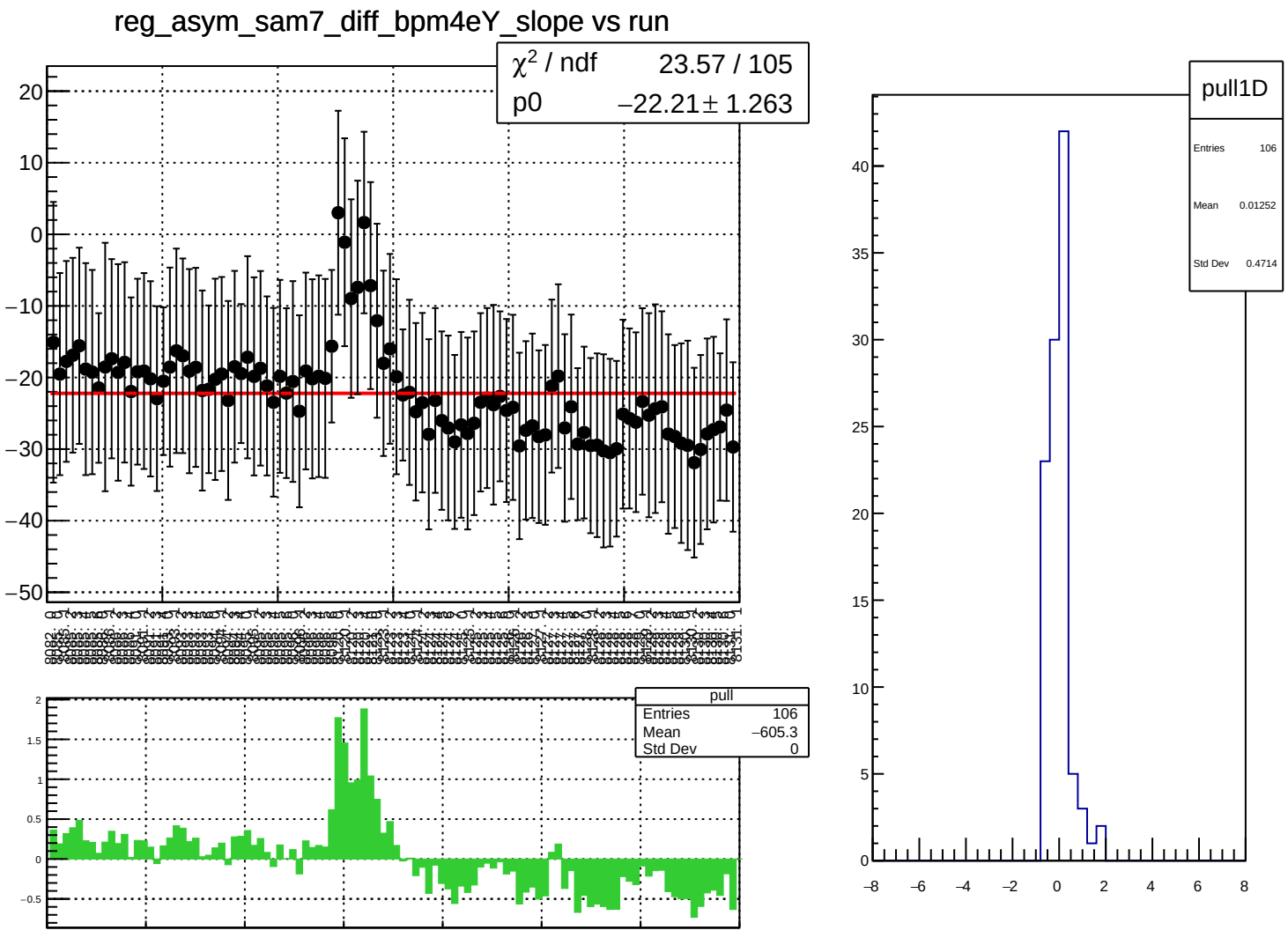

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 7.131 / 105
p0 19.26 ± 0.8056
pull
Entries 106
Mean 1908
Std Dev 0

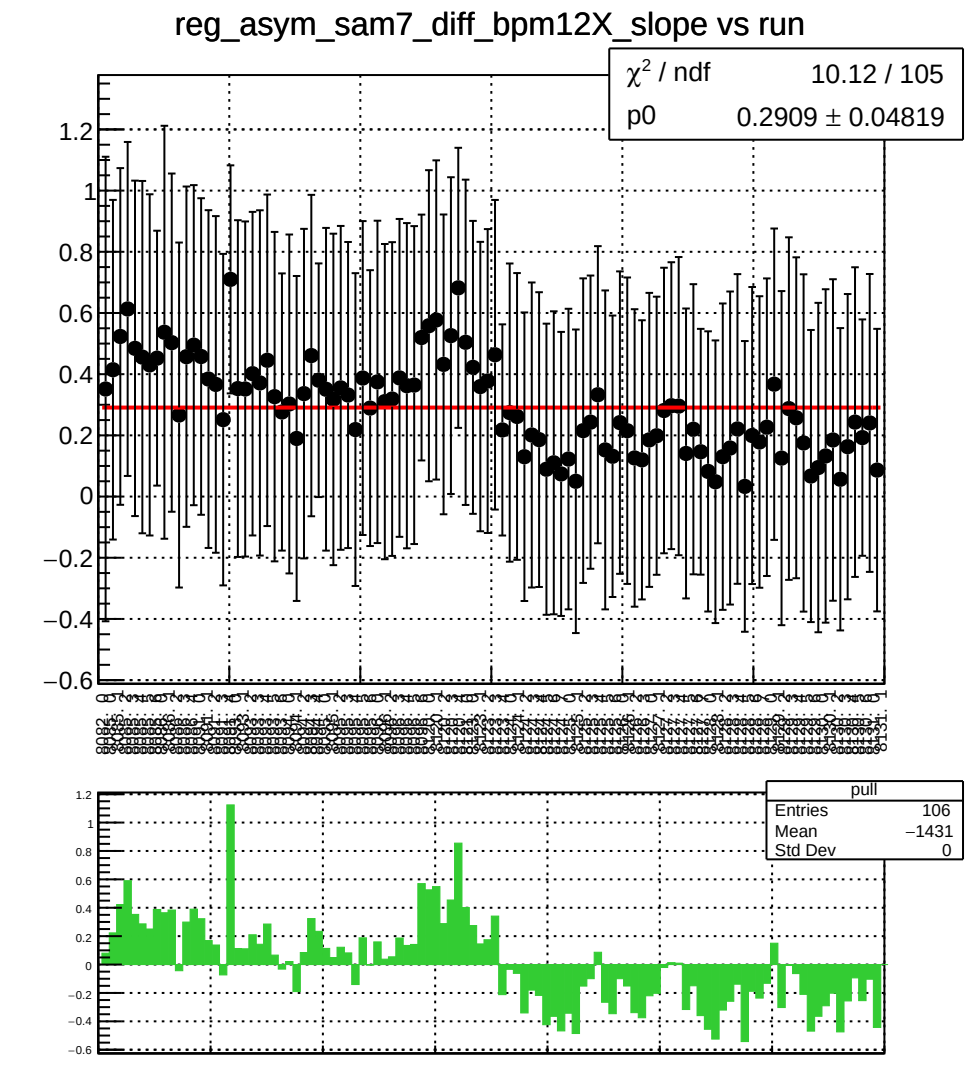

pull1D
Entries 106
Mean −0.002229
Std Dev 0.2594

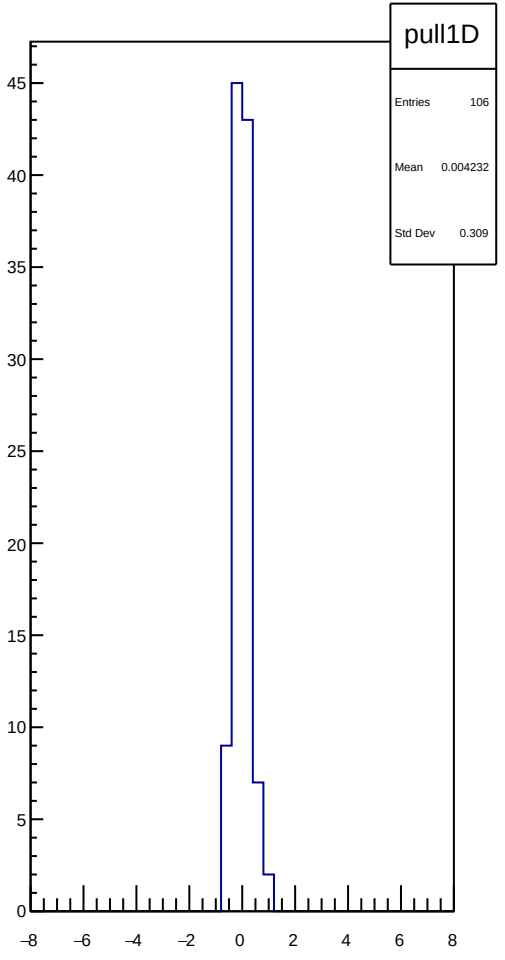

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 25.82 / 105
p0 15.59 ± 1.182
pull
Entries 106
Mean −680
Std Dev 0
pull1D
Entries 106
Mean −0.01328
Std Dev 0.4934

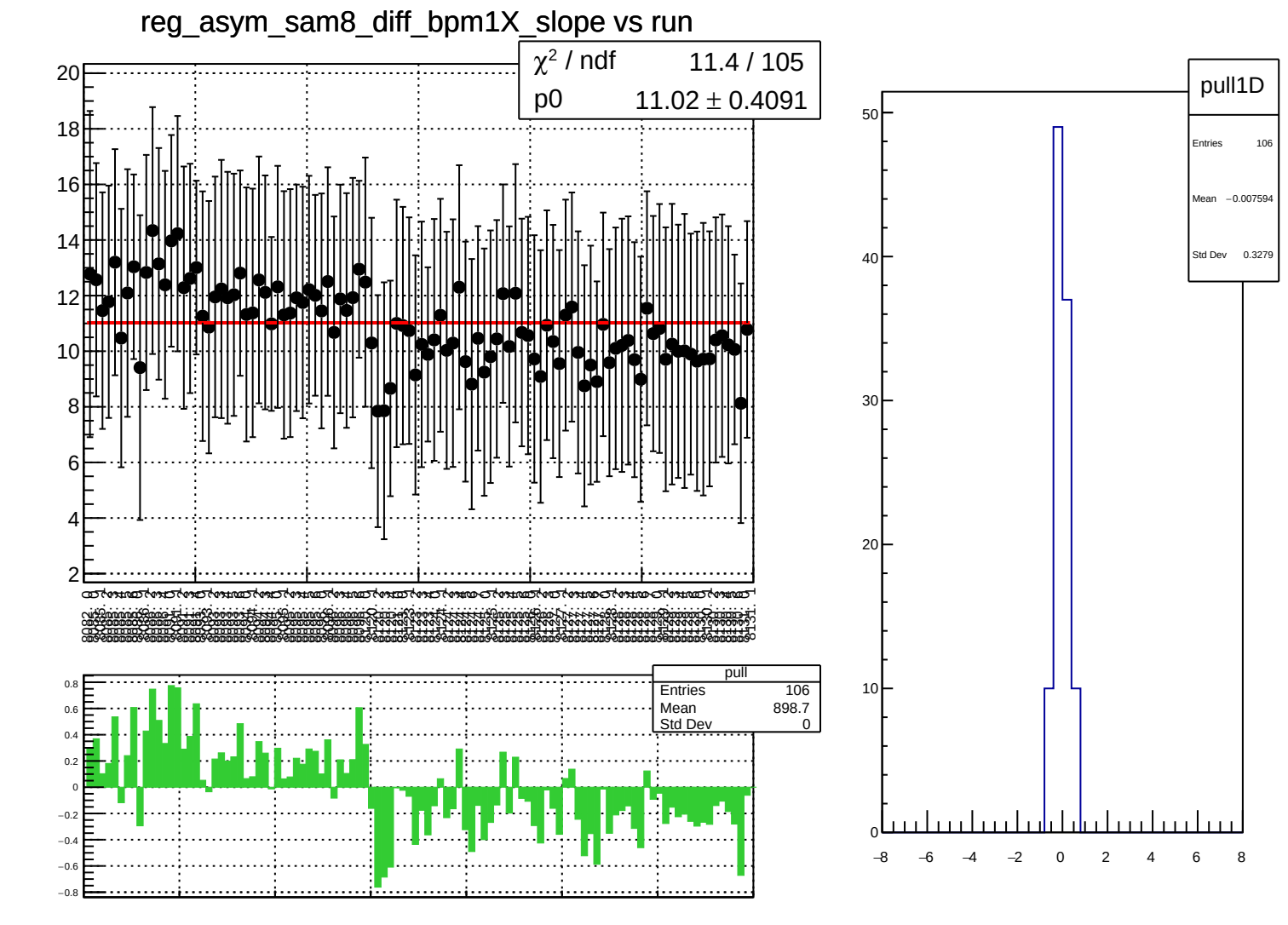

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 8.24 / 105
p0 −57.8 ± 0.7656
pull
Entries 106
Mean −9315
Std Dev 0

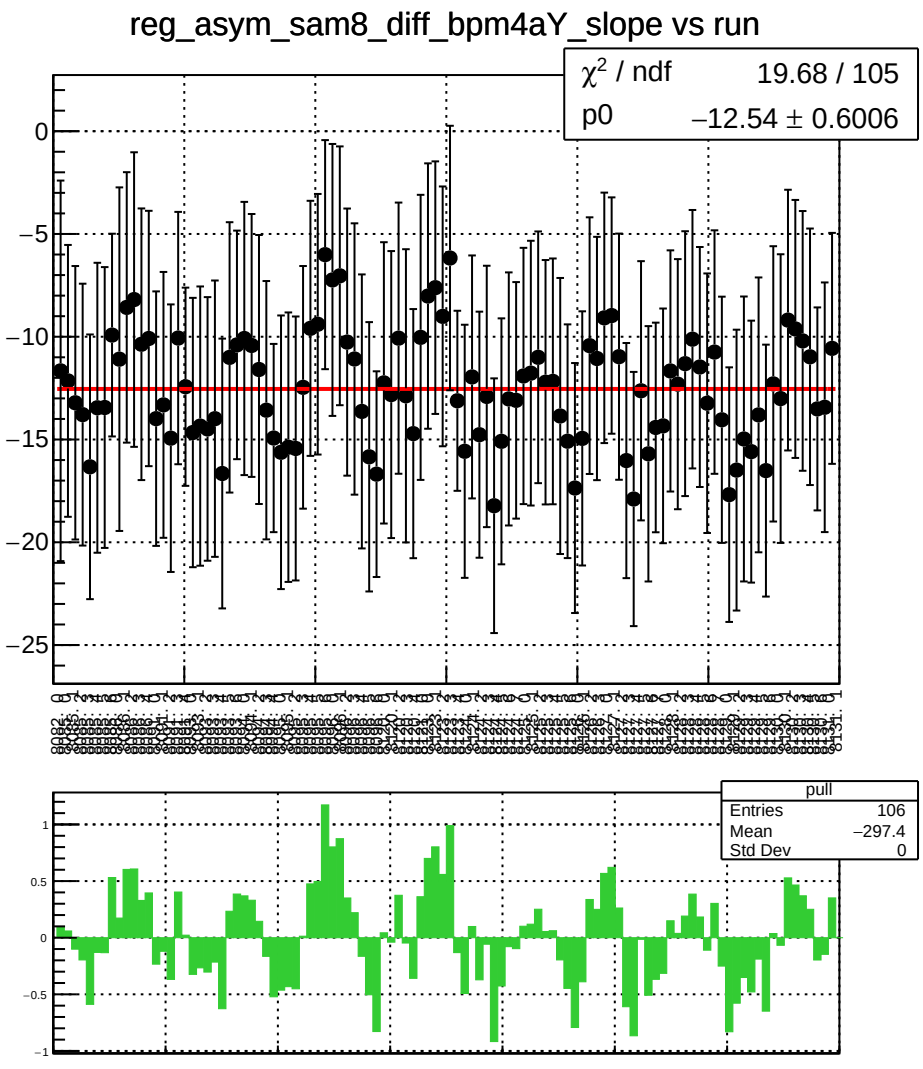

pull1D
Entries 106
Mean −0.0004608
Std Dev 0.2788

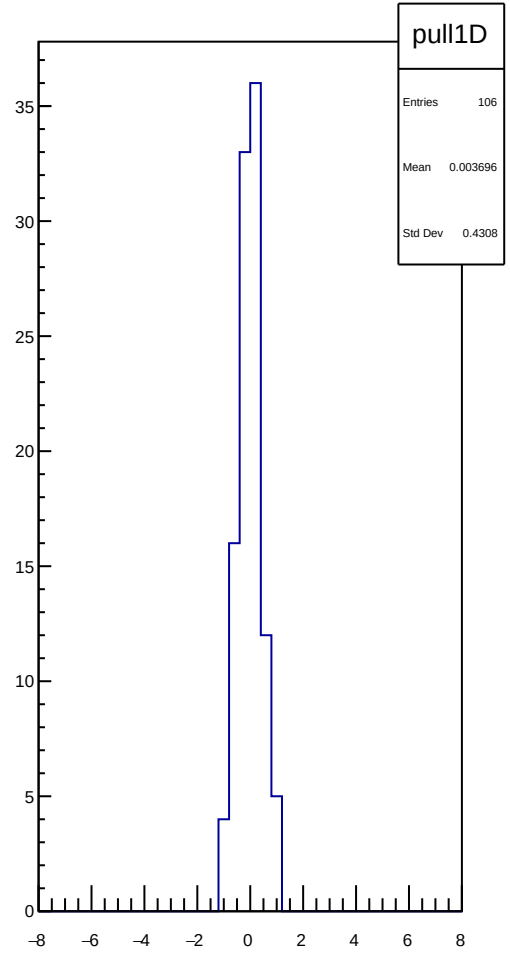

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 23.57 / 105
p0 −22.21 ± 1.263
pull
Entries 106
Mean −605.3
Std Dev 0
pull1D
Entries 106
Mean 0.01252
Std Dev 0.4714

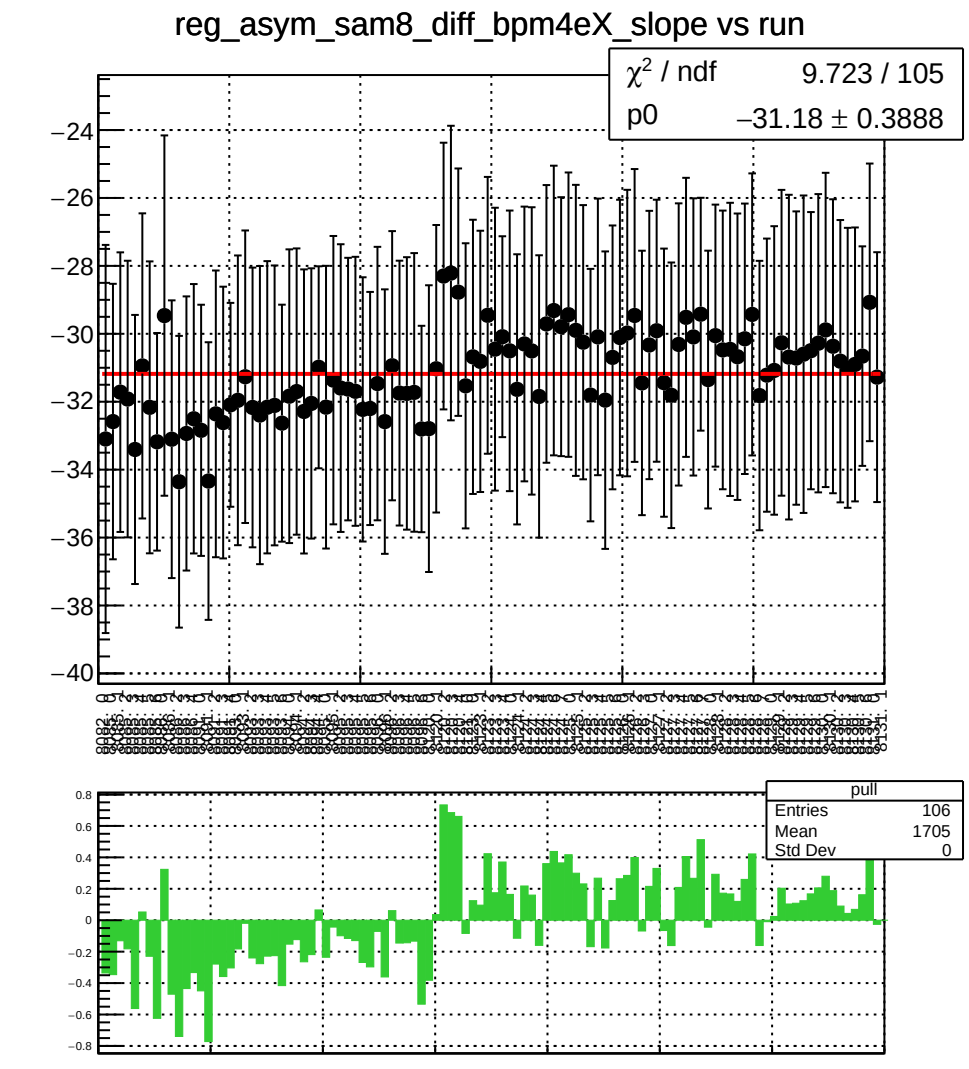

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 10.12 / 105
p0 0.2909 ± 0.04819
pull
Entries 106
Mean −1431
Std Dev 0

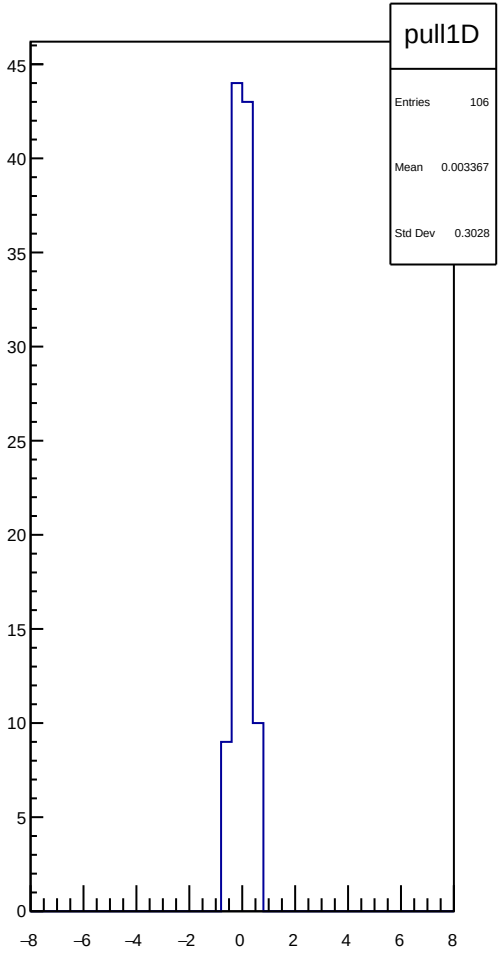

pull1D
Entries 106
Mean 0.004232
Std Dev 0.309

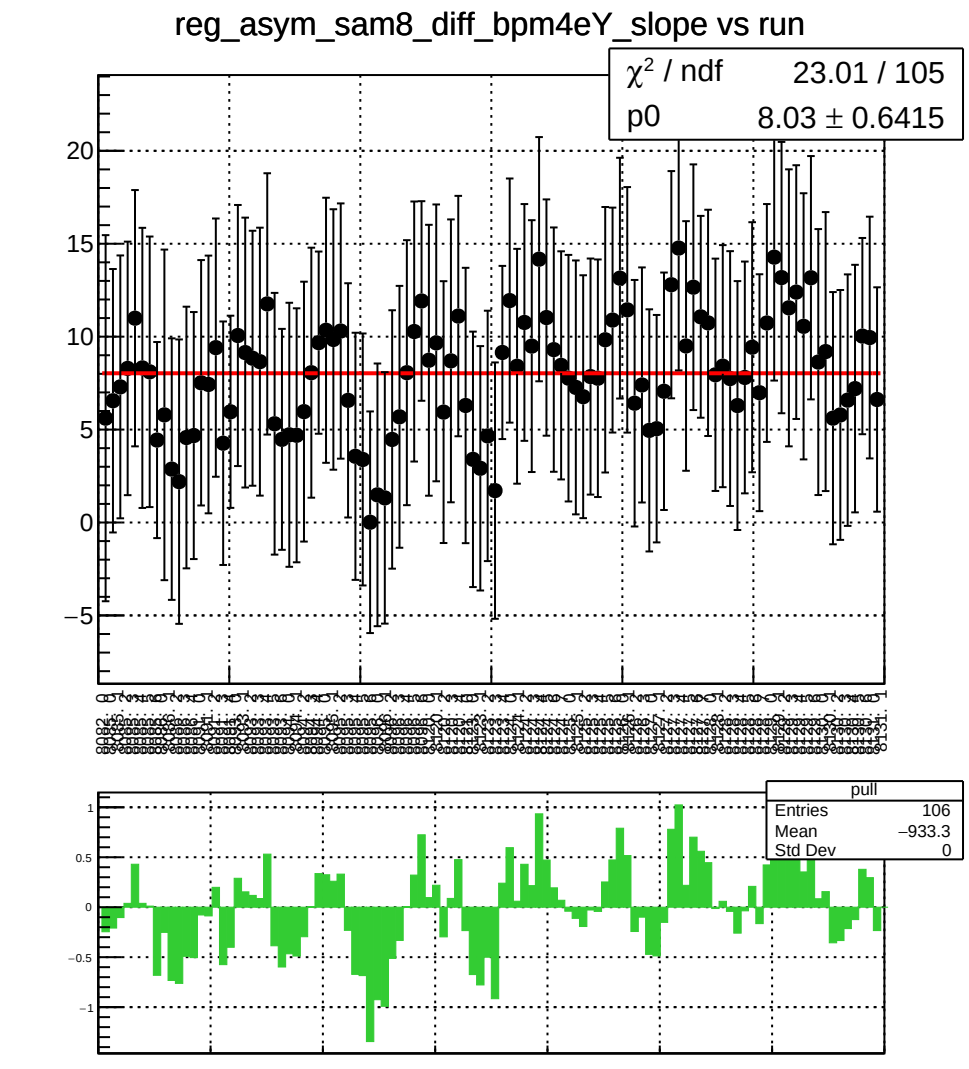

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 11.4 / 105
p0 11.02 ± 0.4091
pull
Entries 106
Mean 898.7
Std Dev 0
pull1D
Entries 106
Mean −0.007594
Std Dev 0.3279

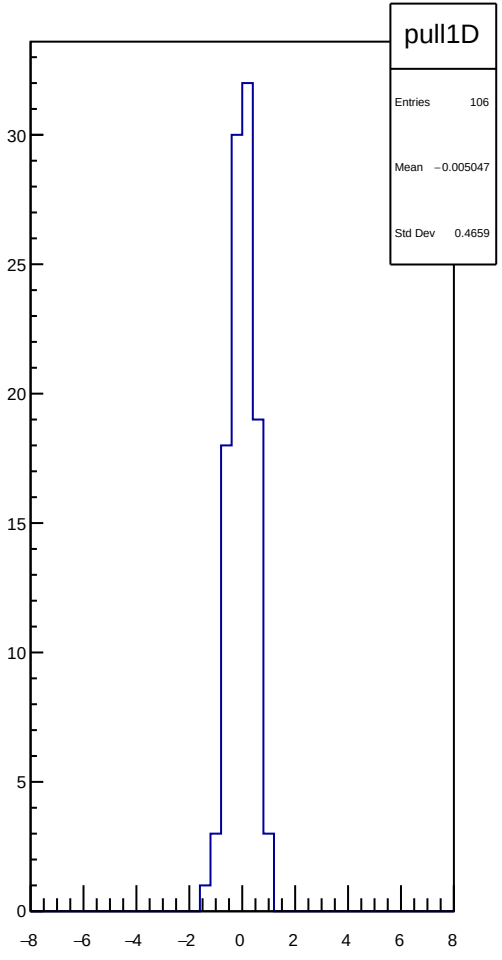

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 19.68 / 105
p0 −12.54 ± 0.6006
pull
Entries 106
Mean −297.4
Std Dev 0

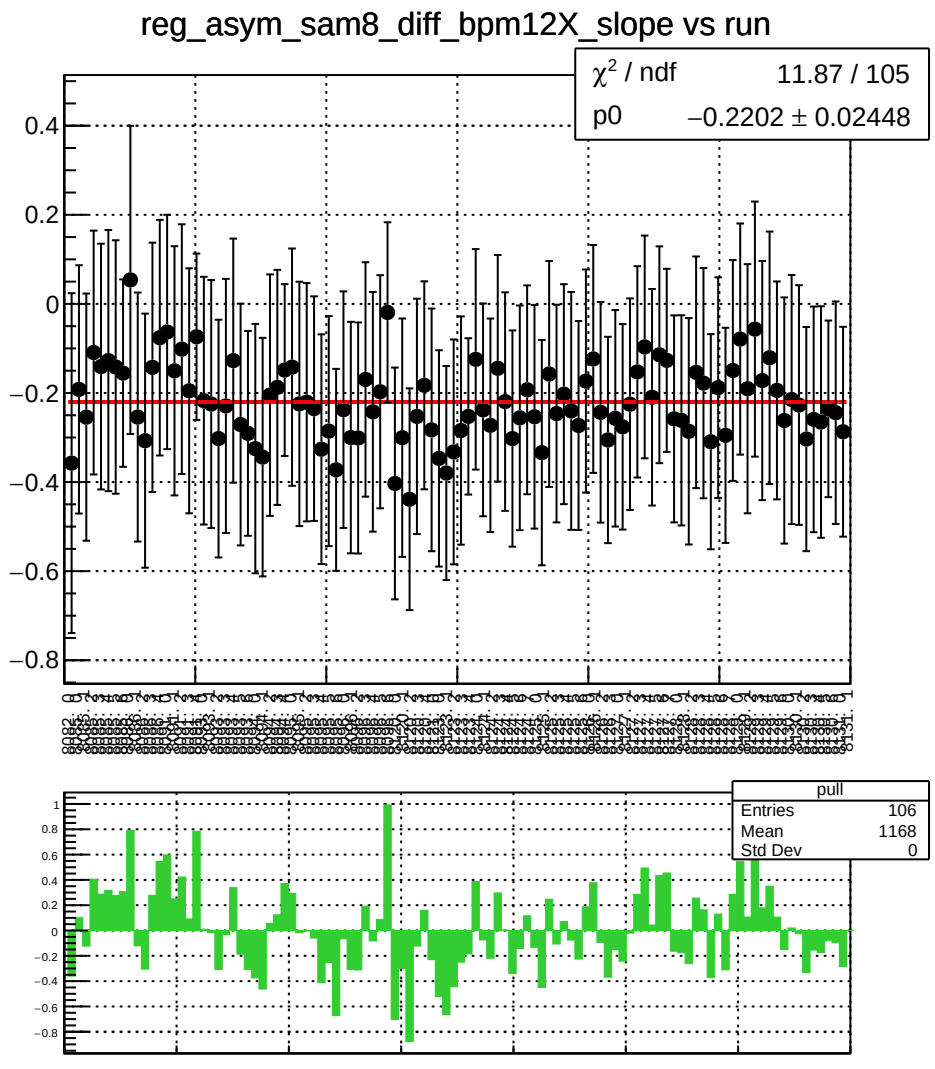

pull1D
Entries 106
Mean 0.003696
Std Dev 0.4308

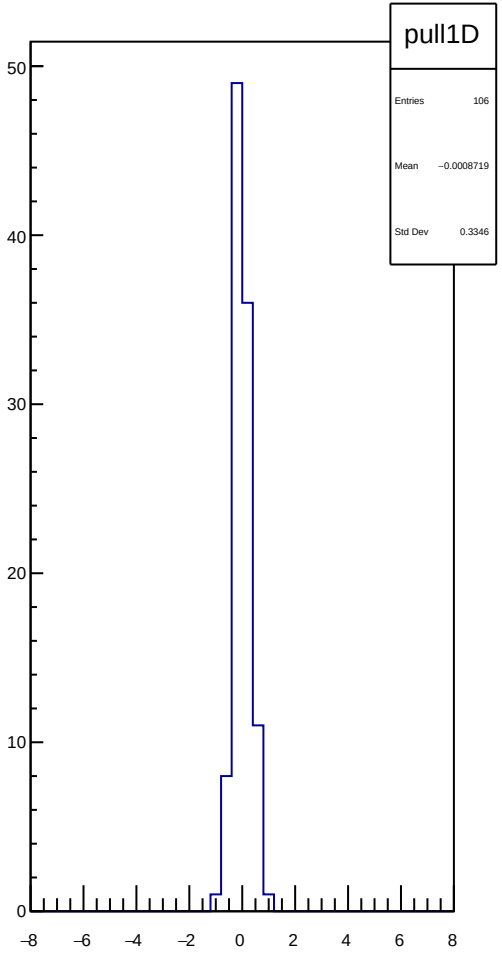

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 9.723 / 105
p0 −31.18 ± 0.3888
pull
Entries 106
Mean 1705
Std Dev 0

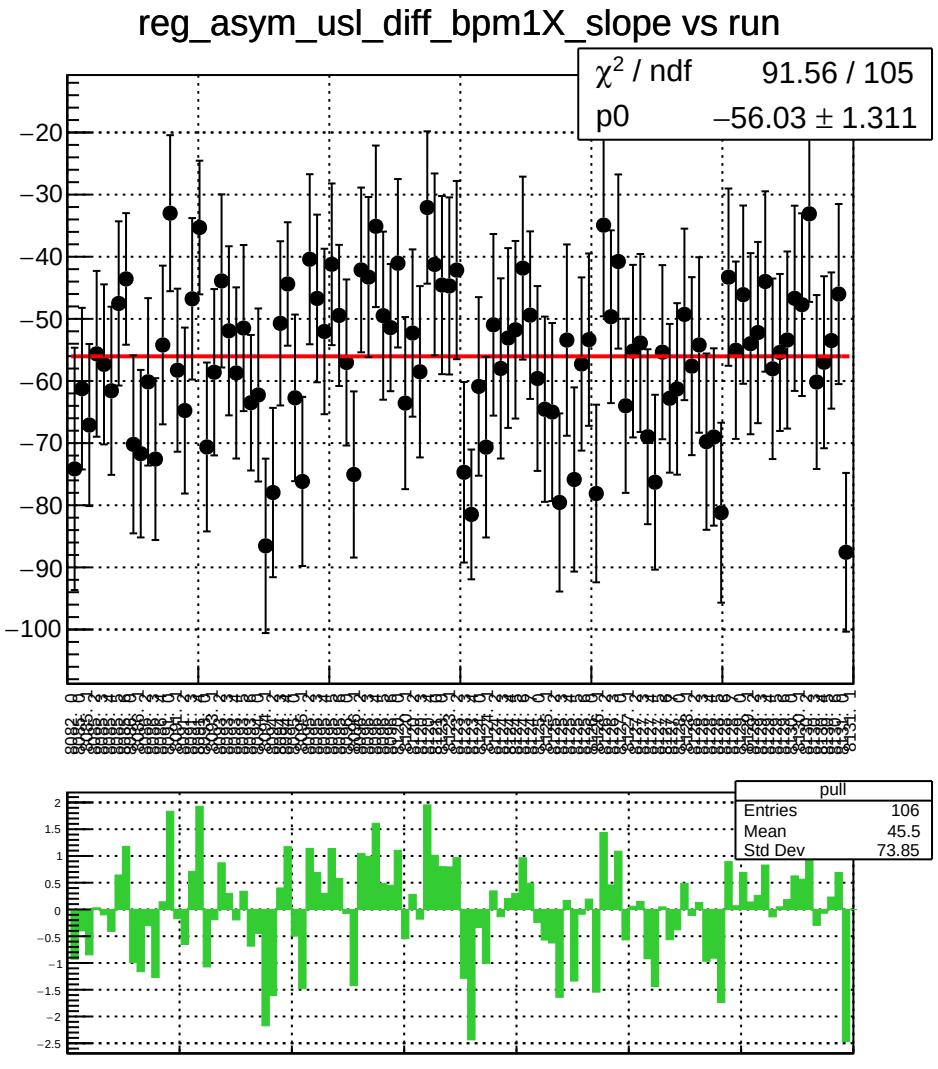

pull1D
Entries 106
Mean 0.003367
Std Dev 0.3028

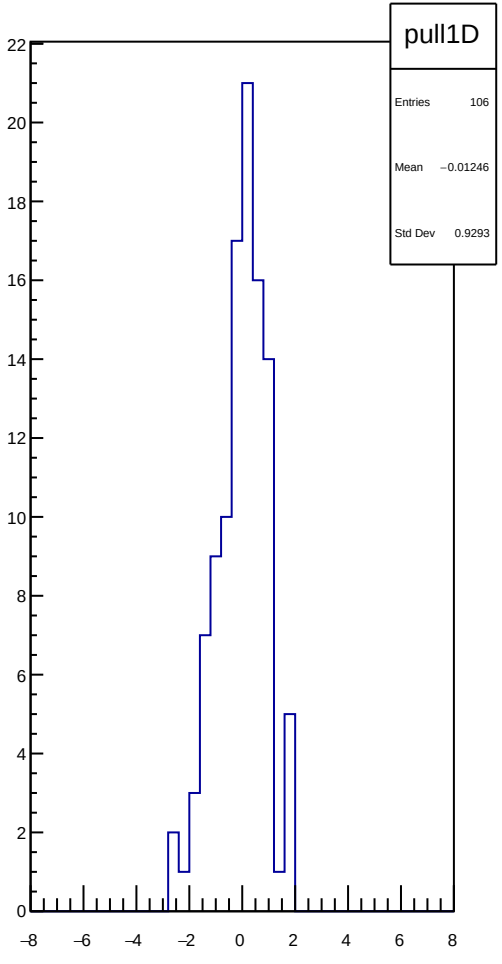

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 23.01 / 105
p0 8.03 ± 0.6415
pull
Entries 106
Mean −933.3
Std Dev 0

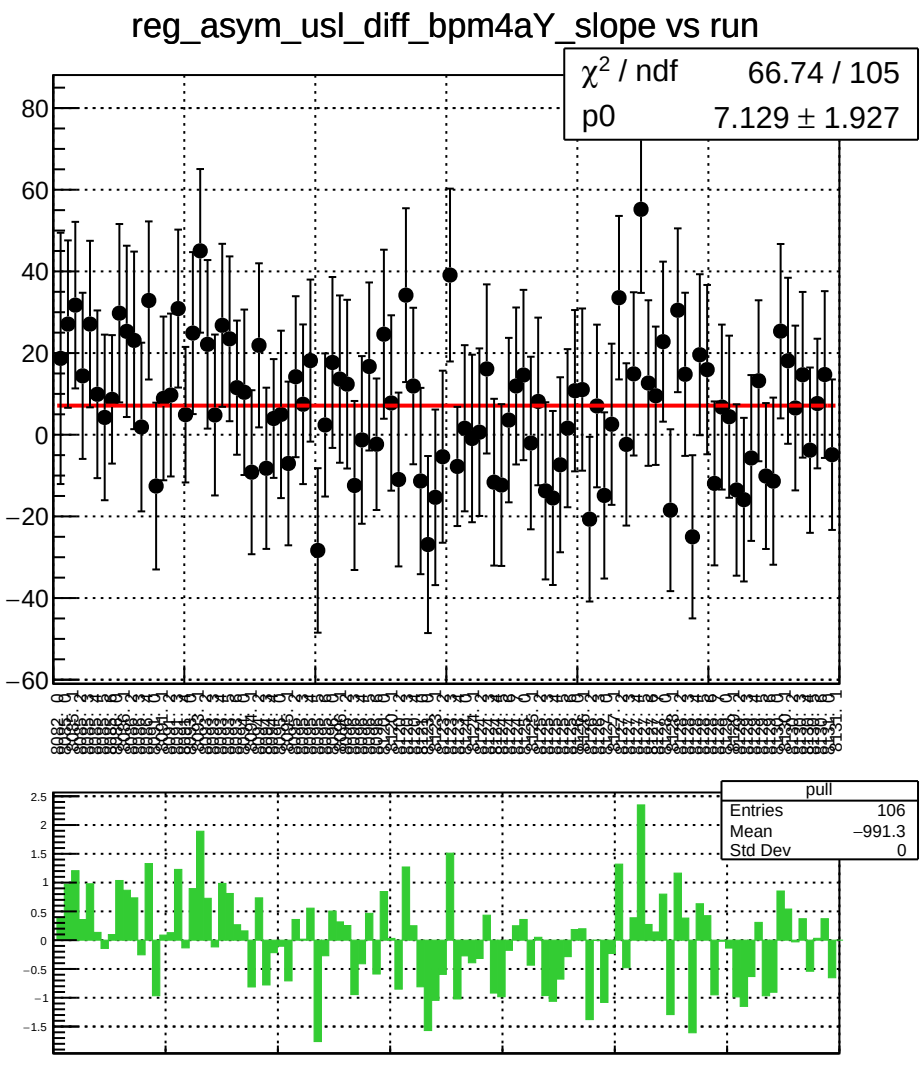

pull1D
Entries 106
Mean −0.005047
Std Dev 0.4659

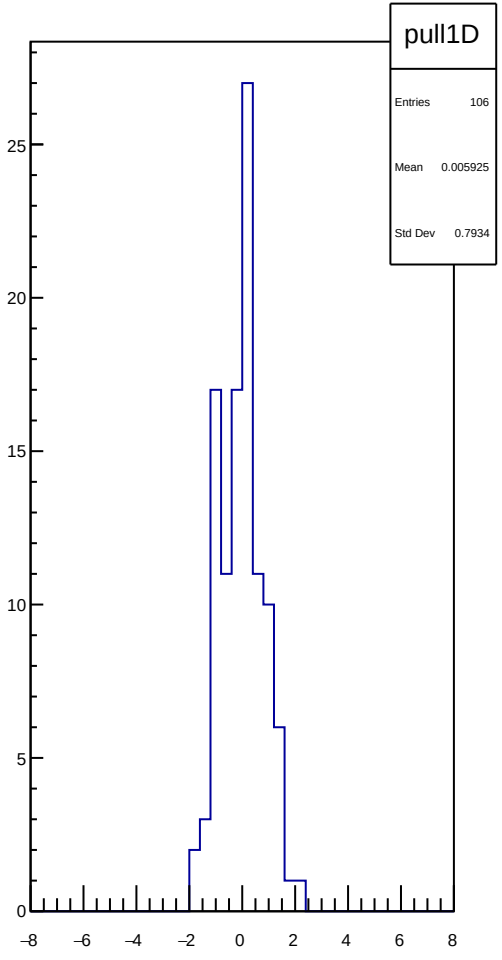

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 11.87 / 105
p0 −0.2202 ± 0.02448
pull
Entries 106
Mean 1168
Std Dev 0

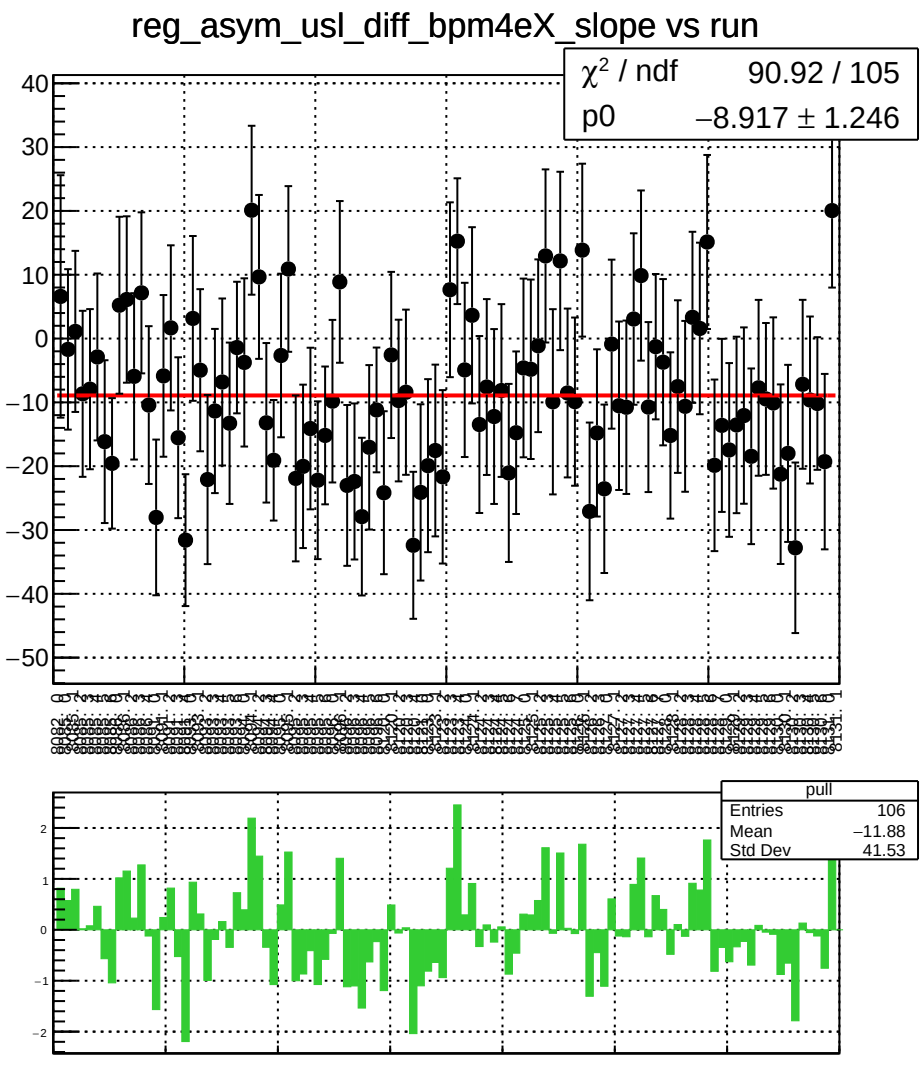

pull1D
Entries 106
Mean −0.0008719
Std Dev 0.3346

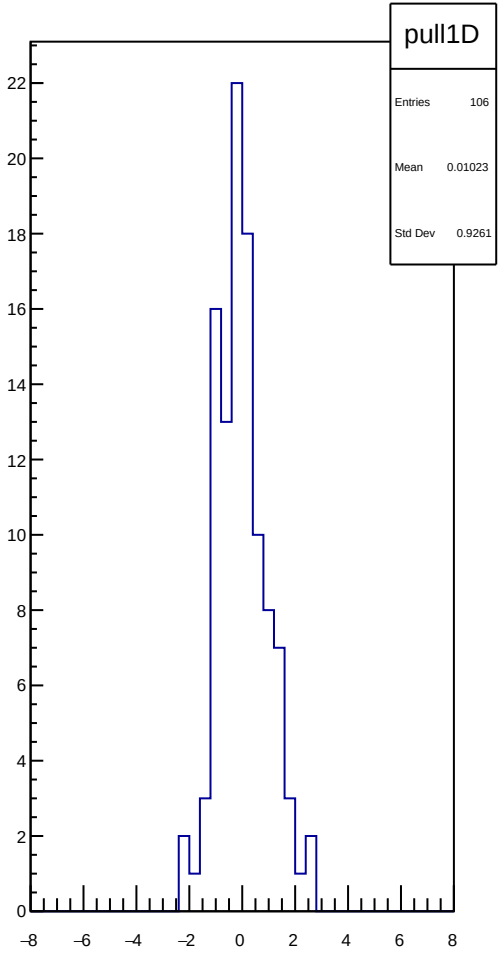

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 91.56 / 105
p0 −56.03 ± 1.311
pull
Entries 106
Mean 45.5
Std Dev 73.85

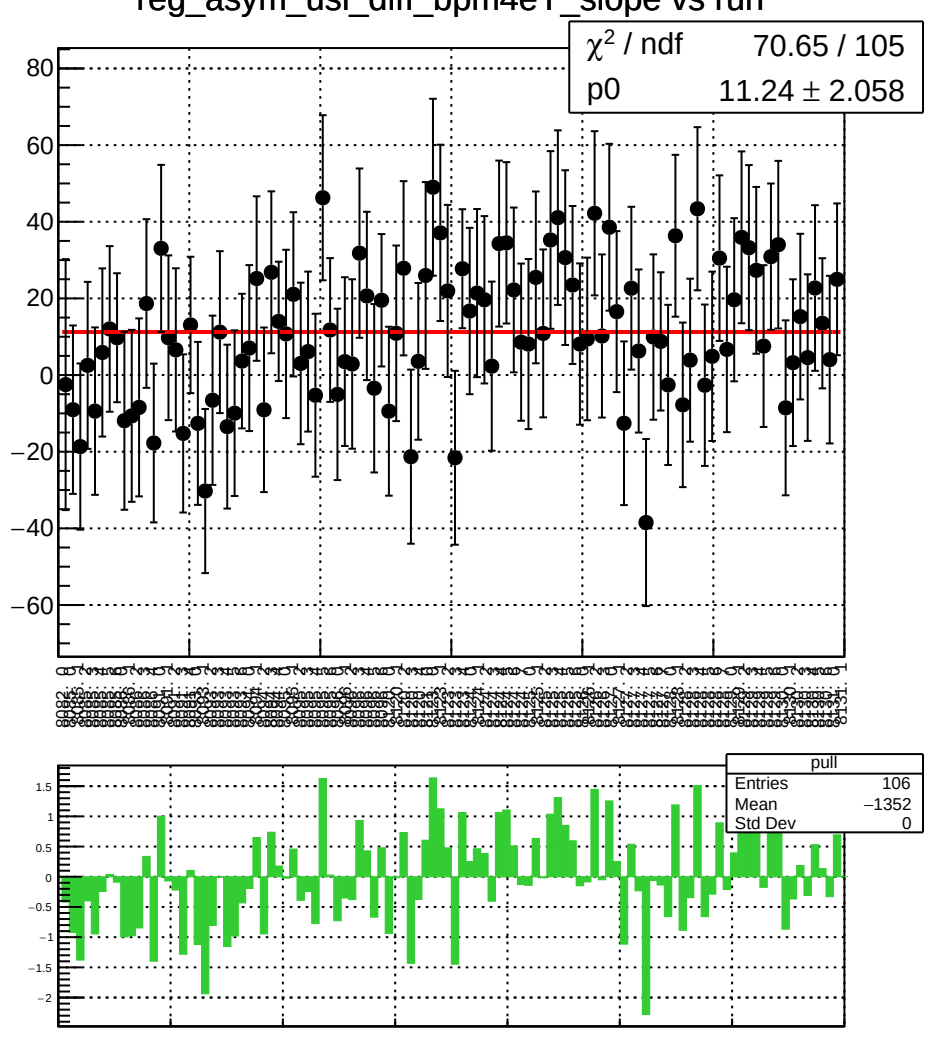

pull1D
Entries 106
Mean −0.01246
Std Dev 0.9293

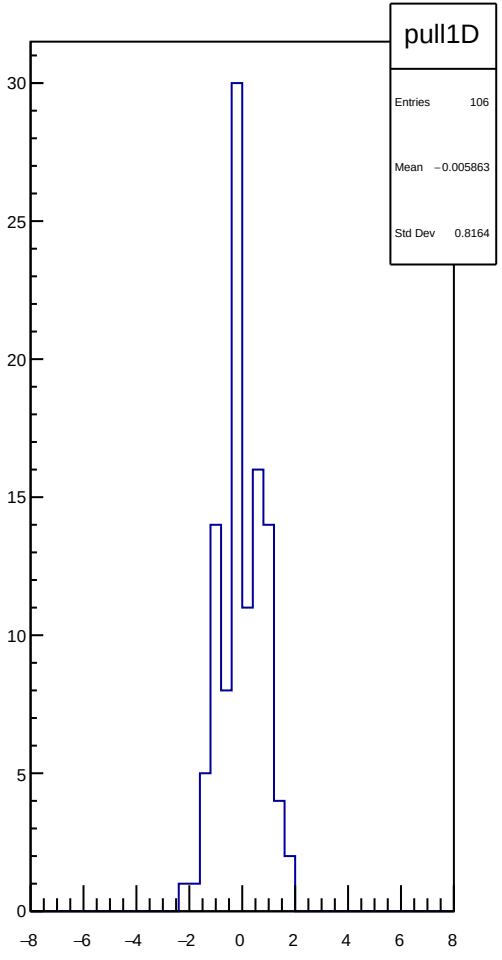

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 66.74 / 105
p0 7.129 ± 1.927
pull
Entries 106
Mean −991.3
Std Dev 0

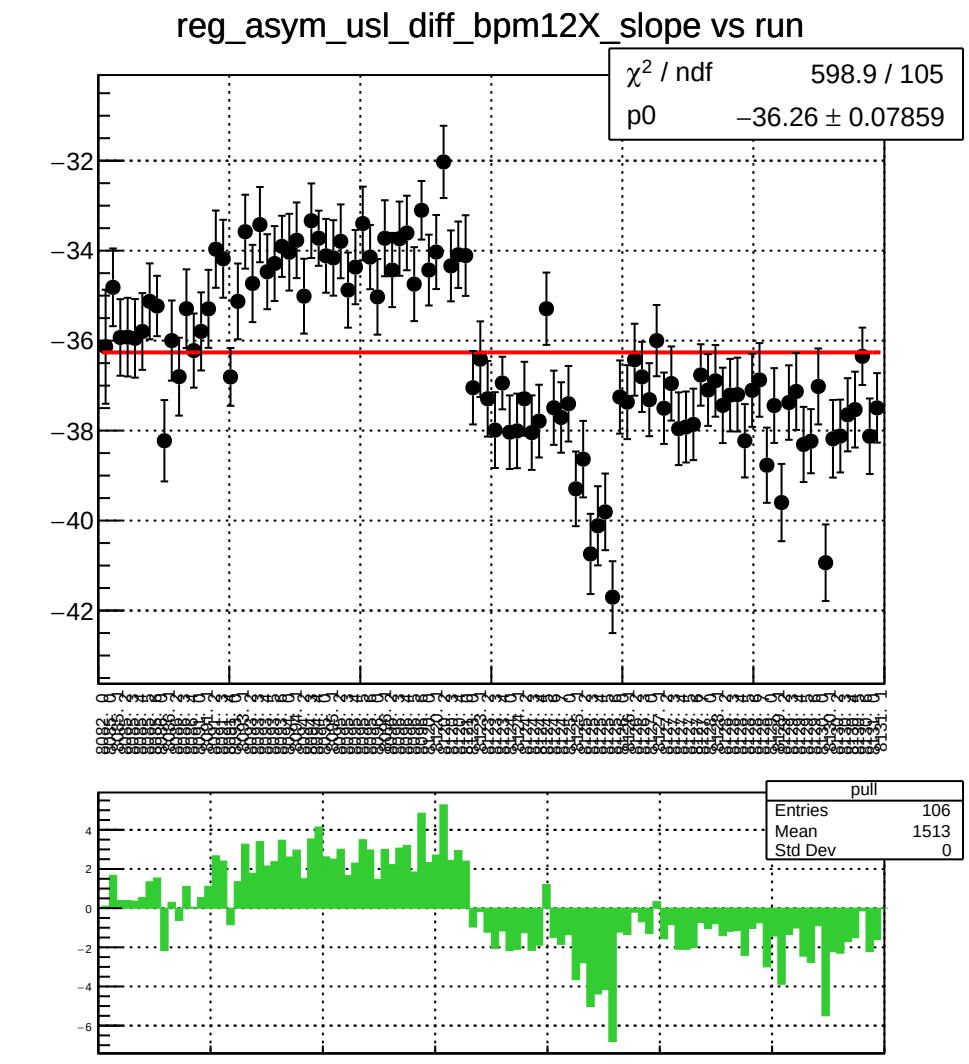

pull1D
Entries 106
Mean 0.005925
Std Dev 0.7934

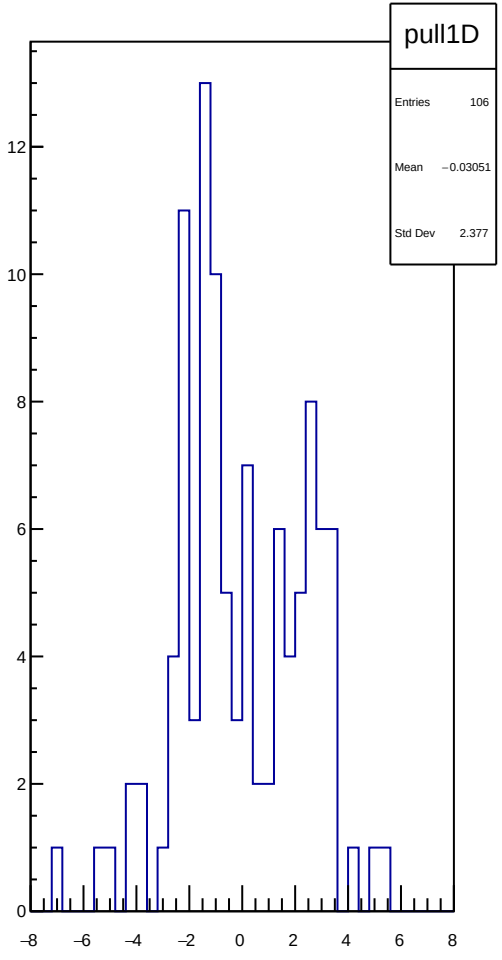

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 90.92 / 105
p0 −8.917 ± 1.246
pull
Entries 106
Mean −11.88
Std Dev 41.53

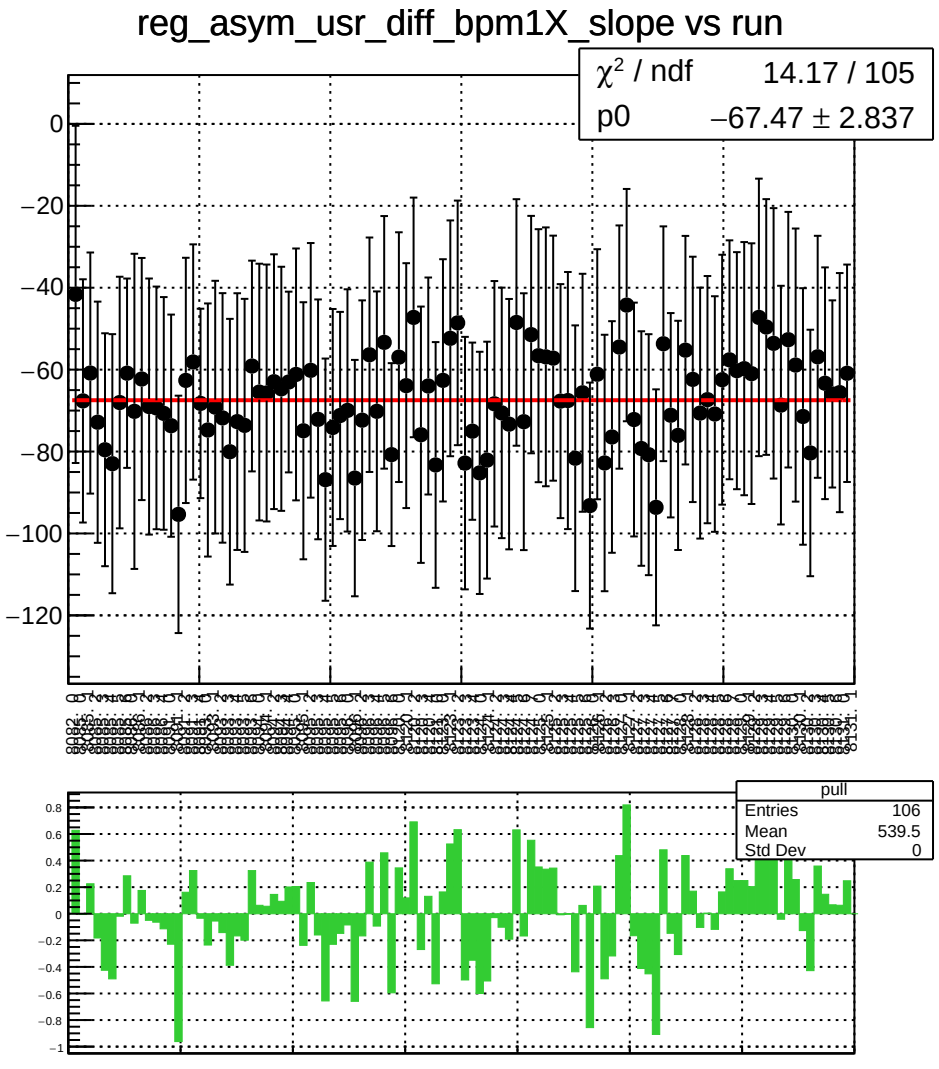

pull1D
Entries 106
Mean 0.01023
Std Dev 0.9261

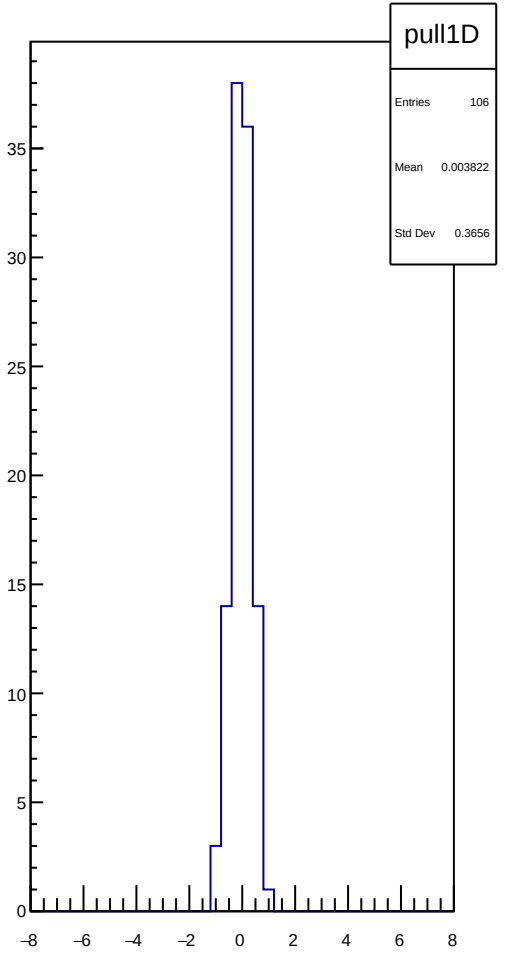

reg_asym_usl_diff_bpm4eY_slope vs run
$\chi^2$ / ndf 70.65 / 105
p0 11.24 ± 2.058
pull
Entries 106
Mean −1352
Std Dev 0

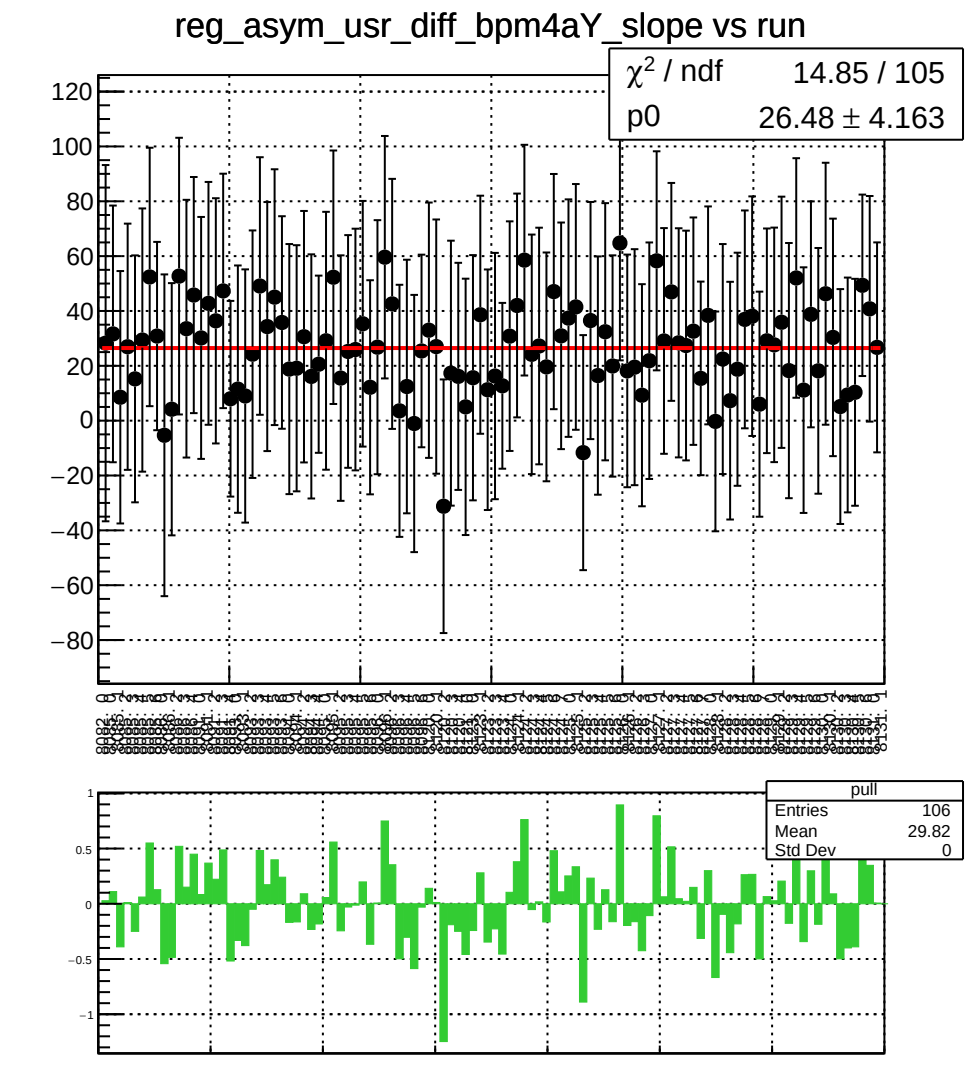

pull1D
Entries 106
Mean −0.005863
Std Dev 0.8164

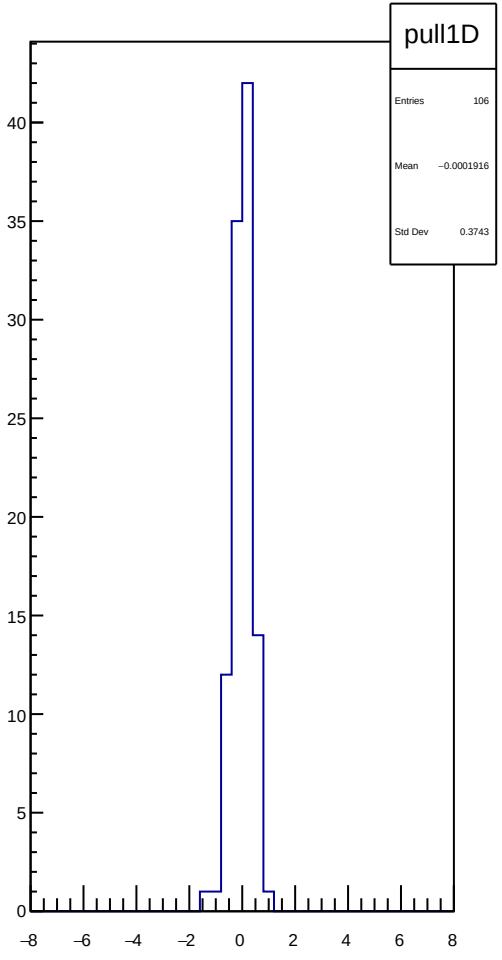

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 598.9 / 105
p0 −36.26 ± 0.07859
−32
−34
−36
−38
−40
−42
pull
Entries 106
Mean 1513
Std Dev 0
4
2
0
−2
−4
−6

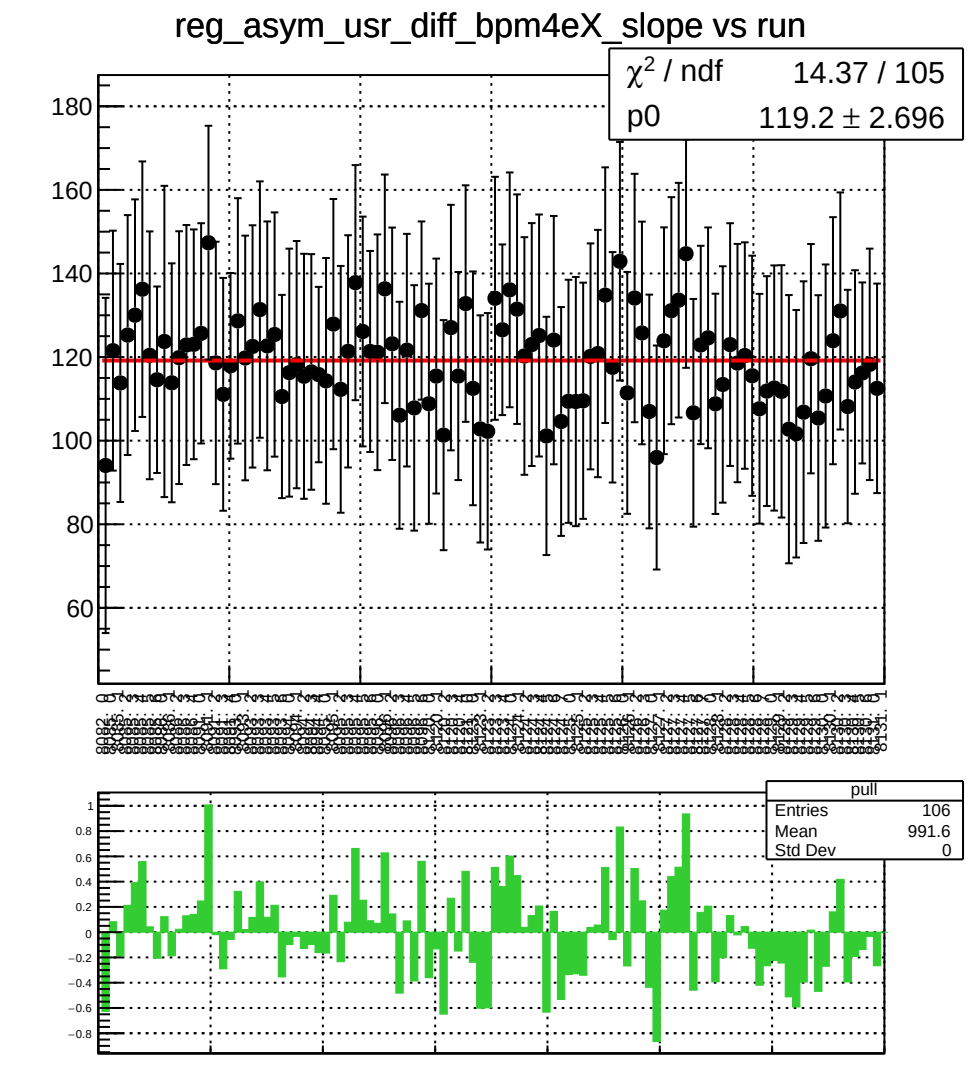

pull1D
Entries 106
Mean −0.03051
Std Dev 2.377
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

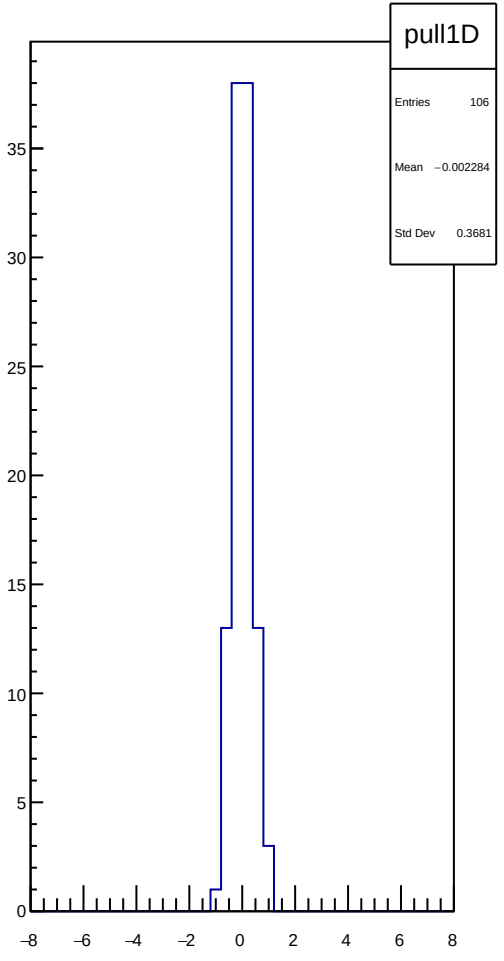

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 14.17 / 105
p0 −67.47 ± 2.837
0
−20
−40
−60
−80
−100
−120
pull
Entries 106
Mean 539.5
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

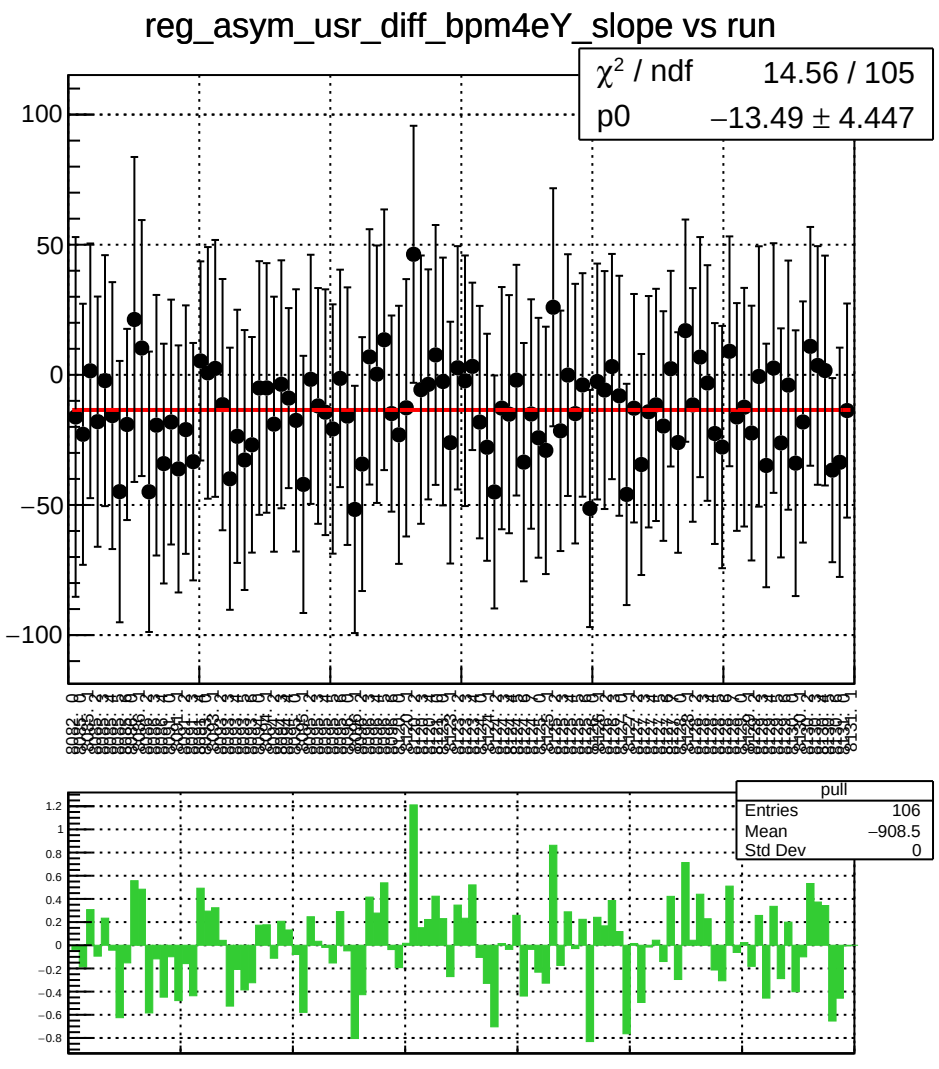

pull1D
Entries 106
Mean 0.003822
Std Dev 0.3656
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

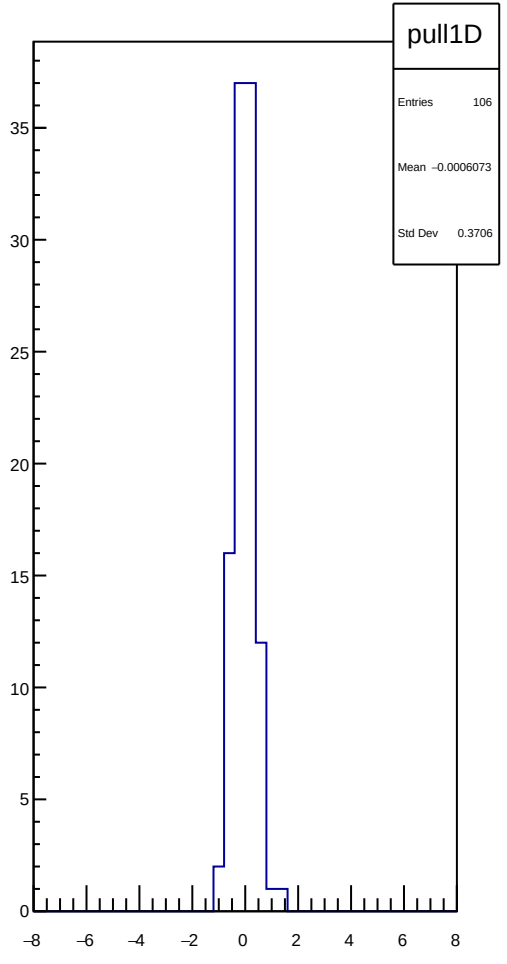

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 14.85 / 105
p0 26.48 ± 4.163
pull
Entries 106
Mean 29.82
Std Dev 0

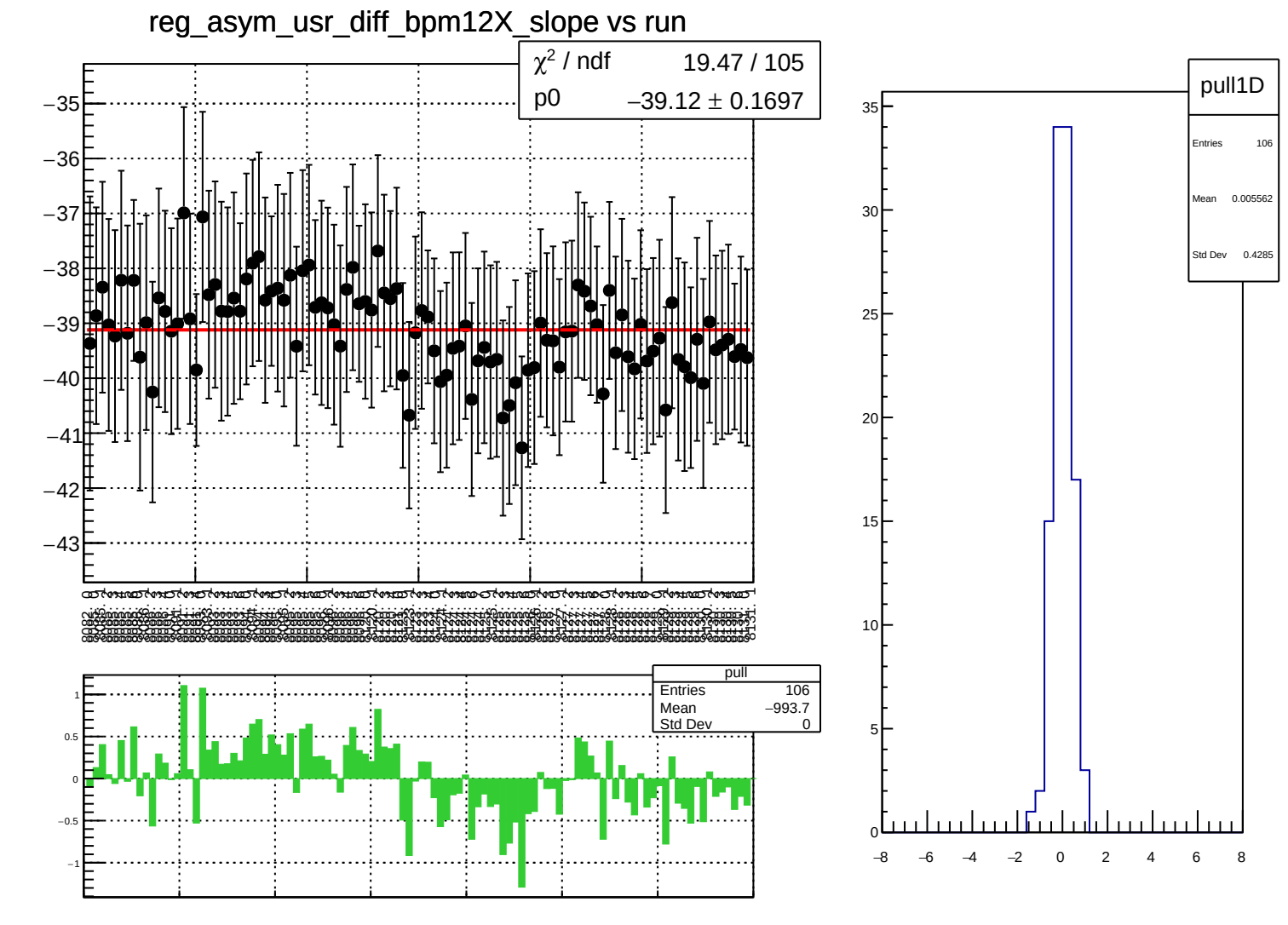

pull1D
Entries 106
Mean −0.0001916
Std Dev 0.3743

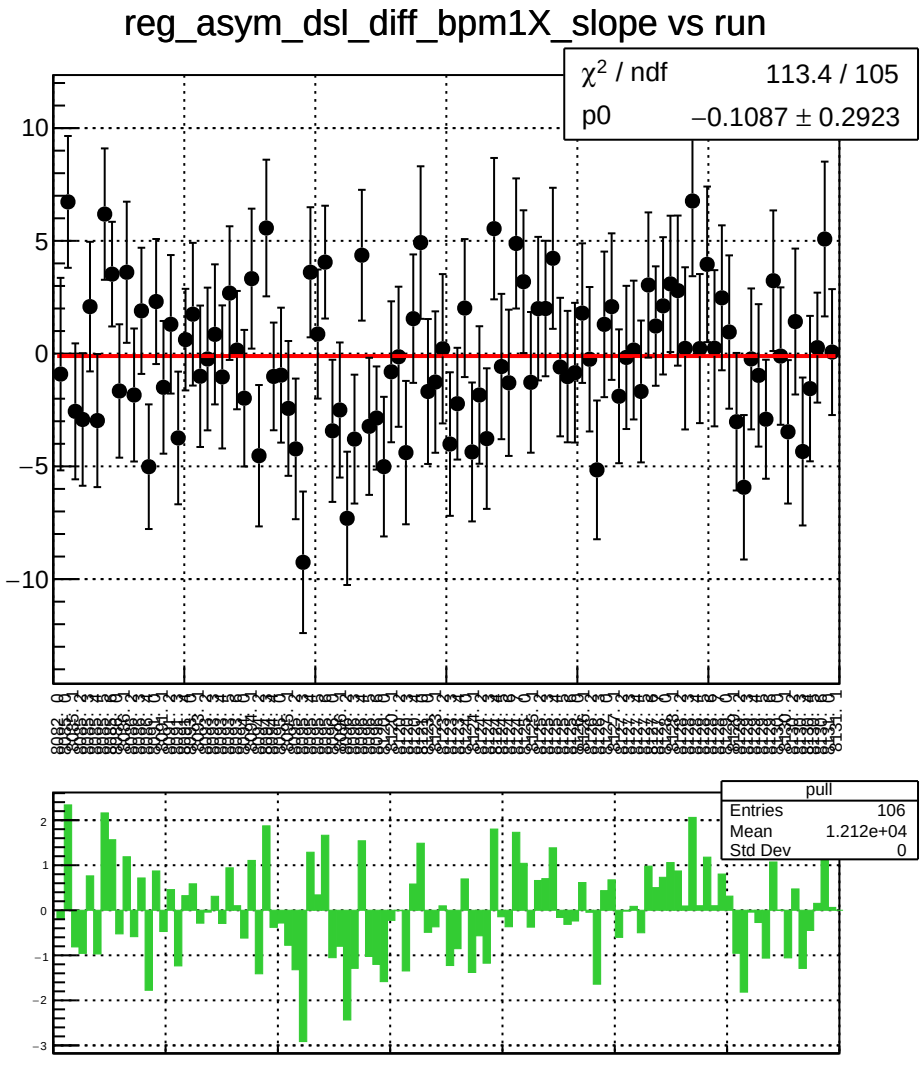

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 14.37 / 105
p0 119.2 ± 2.696
180
160
140
120
100
80
60
pull
Entries 106
Mean 991.6
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

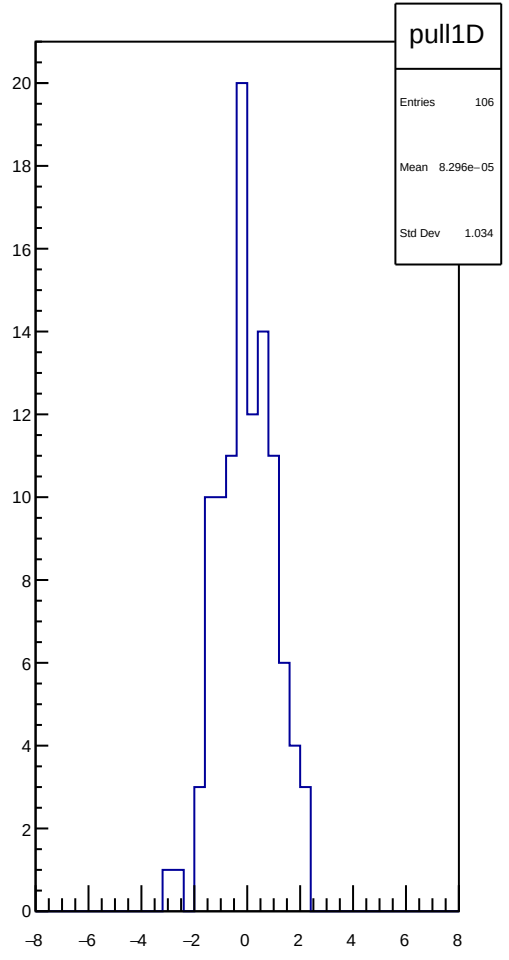

pull1D
Entries 106
Mean −0.002284
Std Dev 0.3681
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

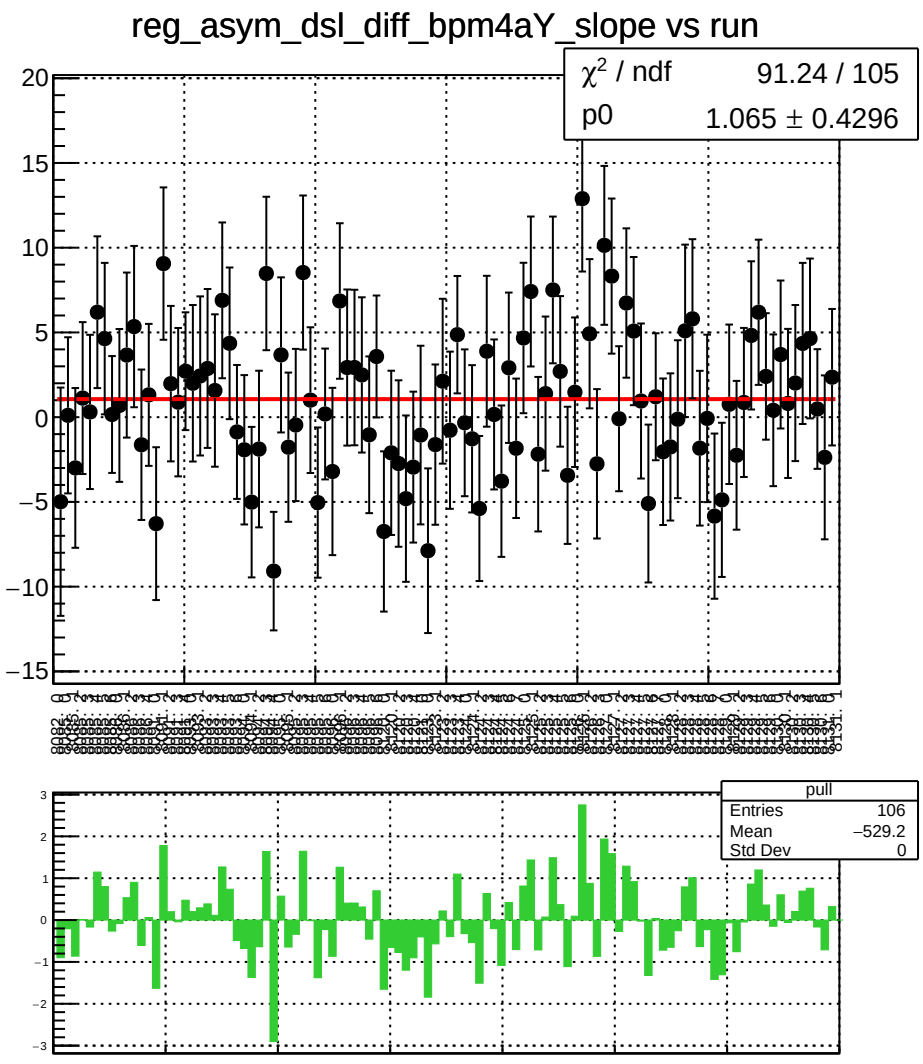

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 14.56 / 105
p0 −13.49 ± 4.447
100
50
0
−50
−100
pull
Entries 106
Mean −908.5
Std Dev 0
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

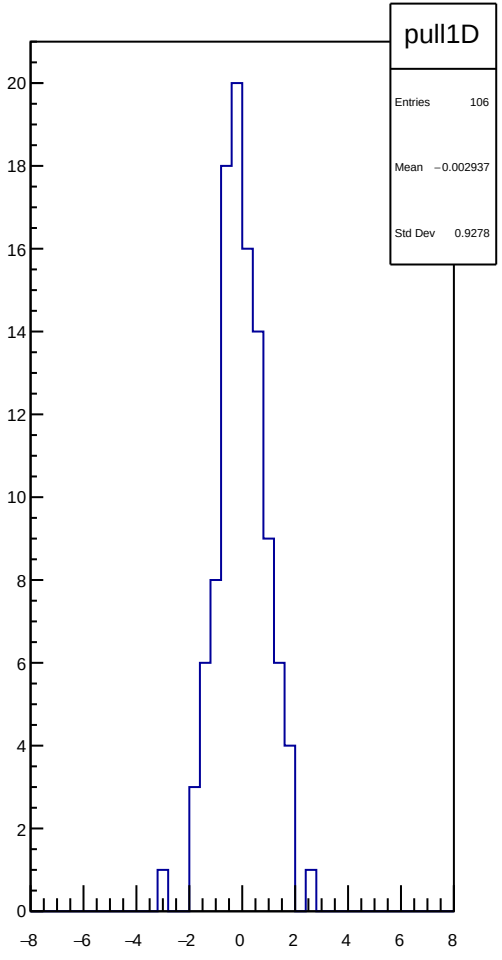

pull1D
Entries 106
Mean −0.0006073
Std Dev 0.3706
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

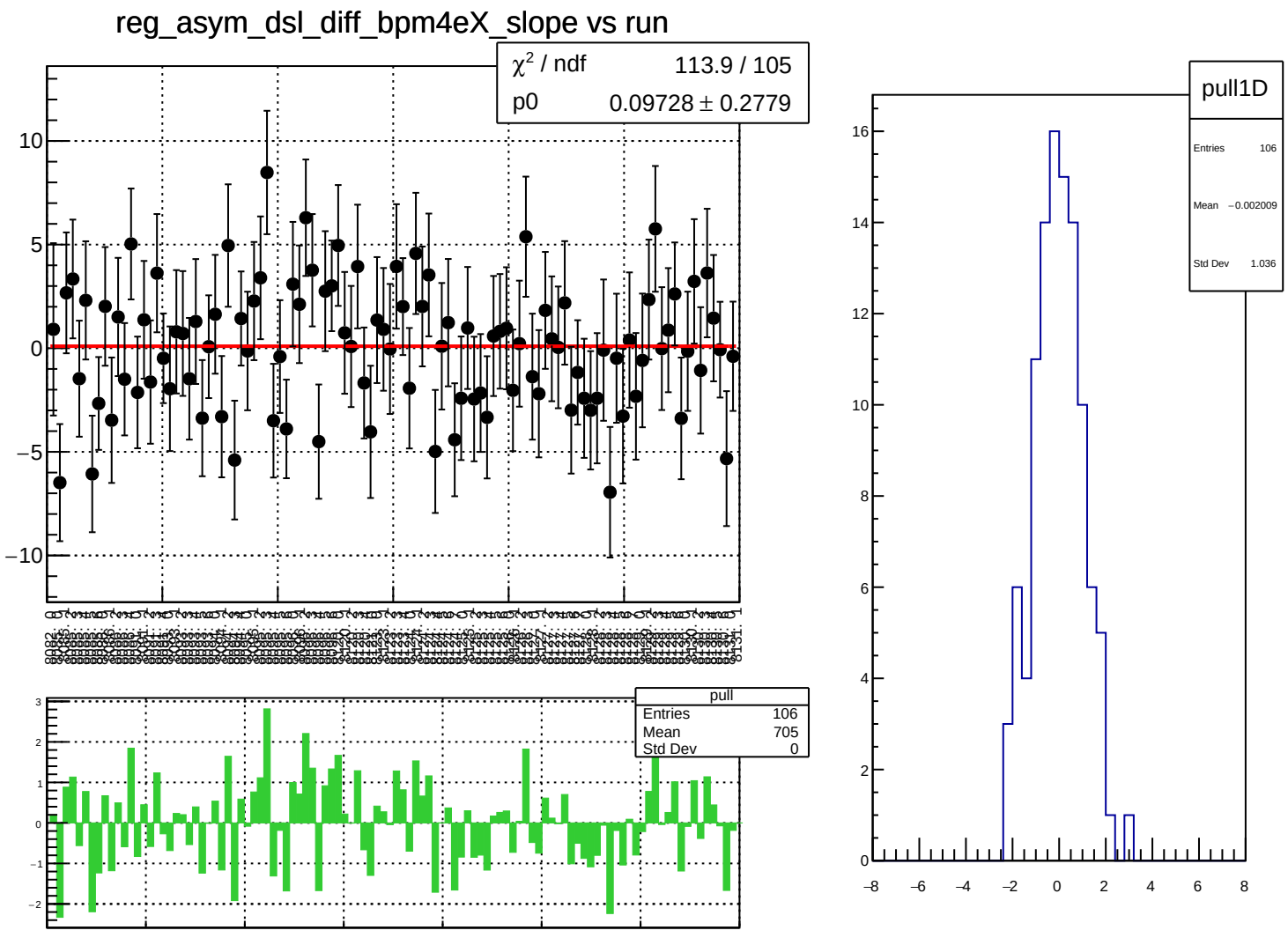

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 19.47 / 105
p0 −39.12 ± 0.1697
pull
Entries 106
Mean −993.7
Std Dev 0
pull1D
Entries 106
Mean 0.005562
Std Dev 0.4285

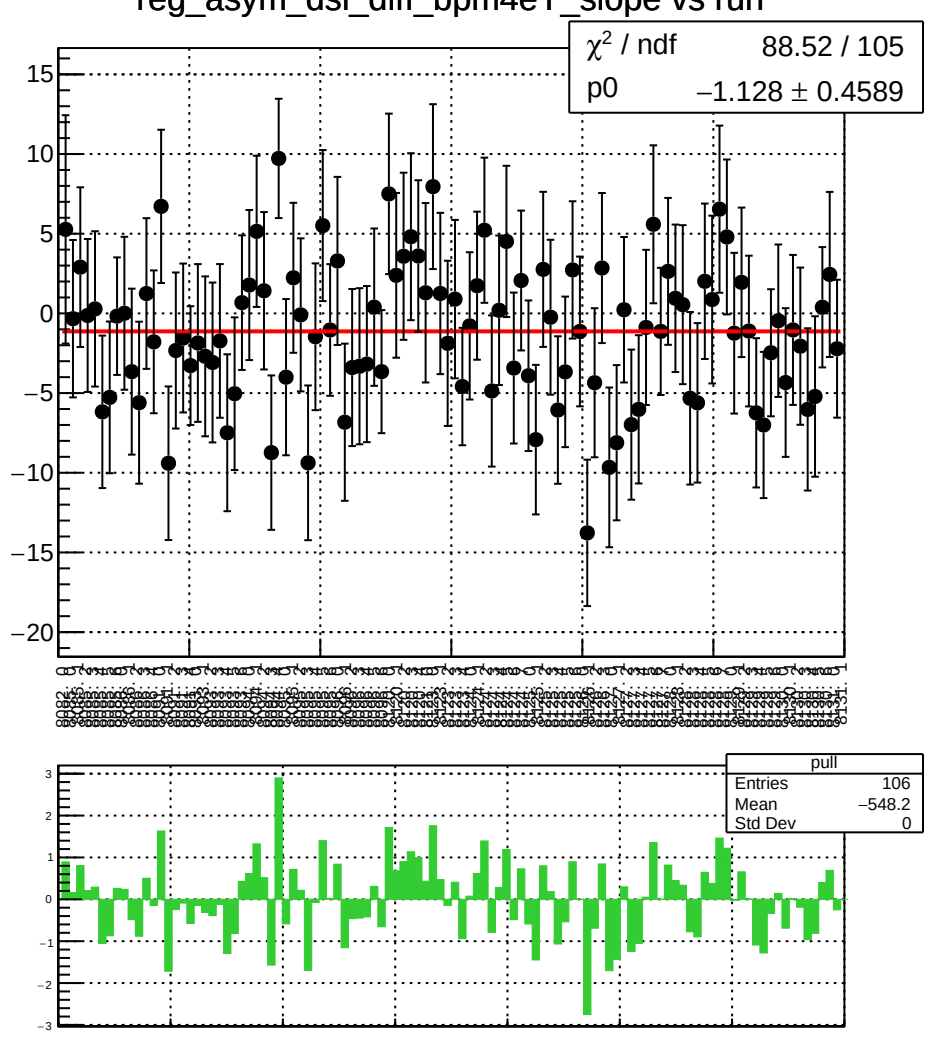

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 113.4 / 105
p0 −0.1087 ± 0.2923
10
5
0
−5
−10
pull
Entries 106
Mean 1.212e+04
Std Dev 0
2
1
0
−1
−2
−3

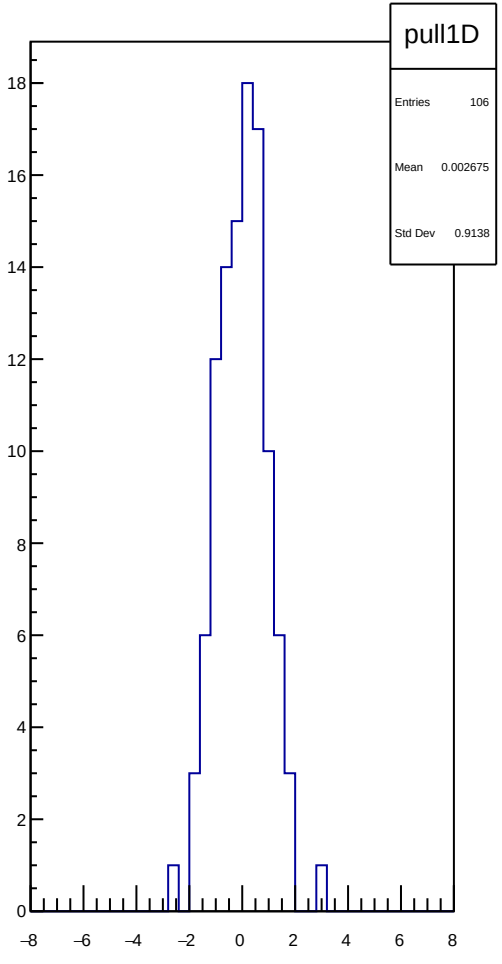

pull1D
Entries 106
Mean 8.296e−05
Std Dev 1.034
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

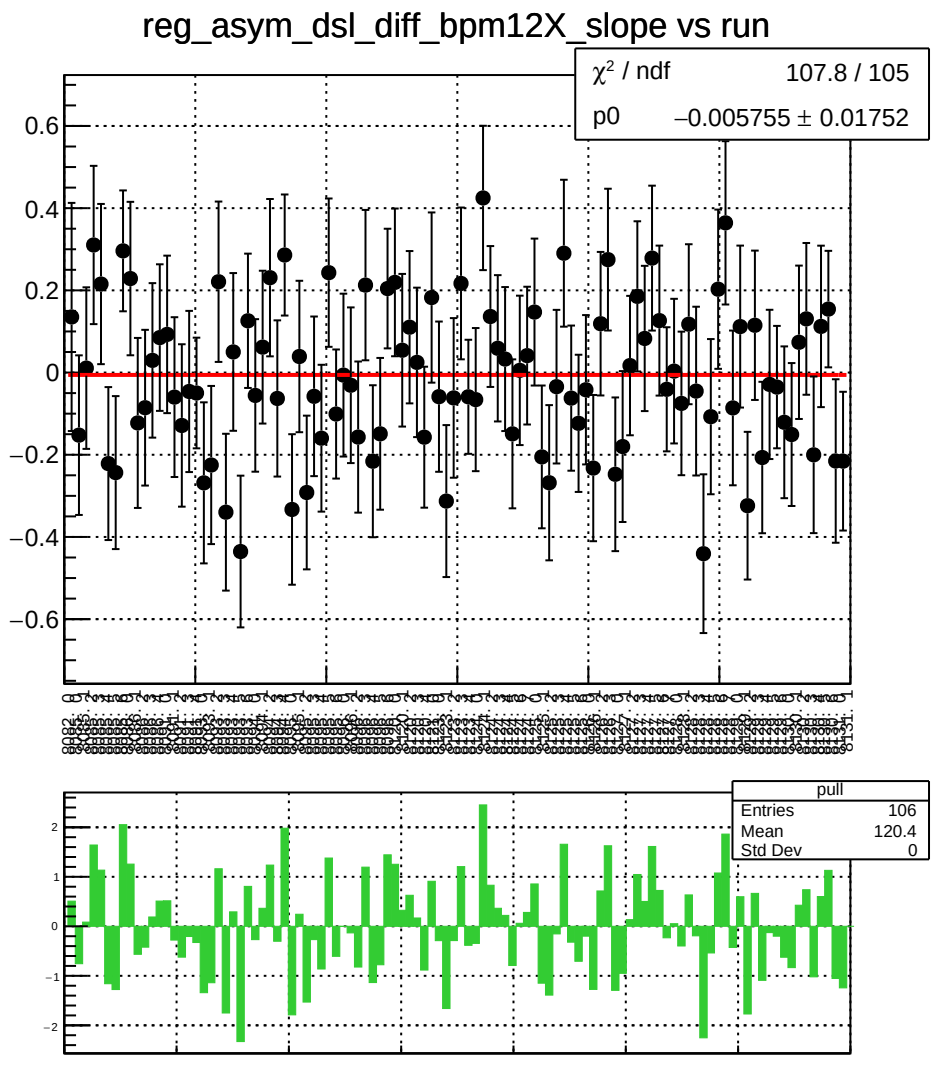

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 91.24 / 105
p0 1.065 ± 0.4296
pull
Entries 106
Mean −529.2
Std Dev 0

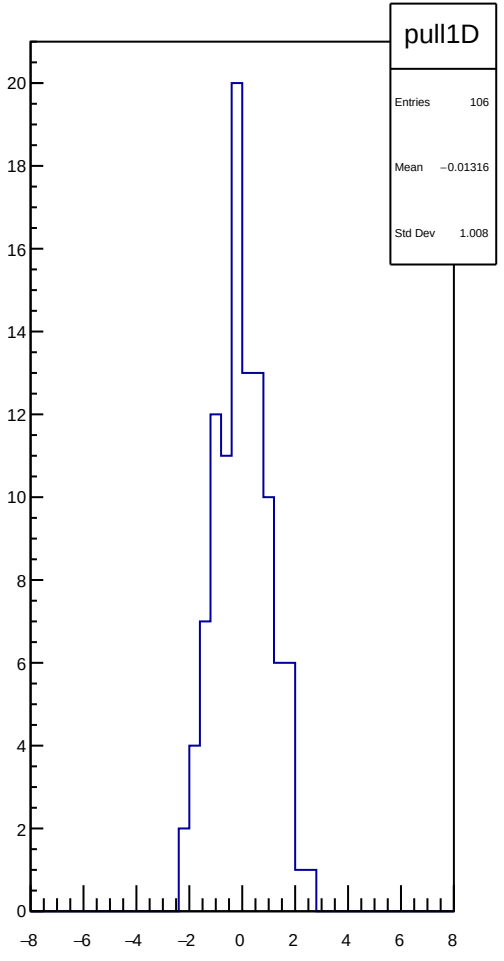

pull1D
Entries 106
Mean −0.002937
Std Dev 0.9278

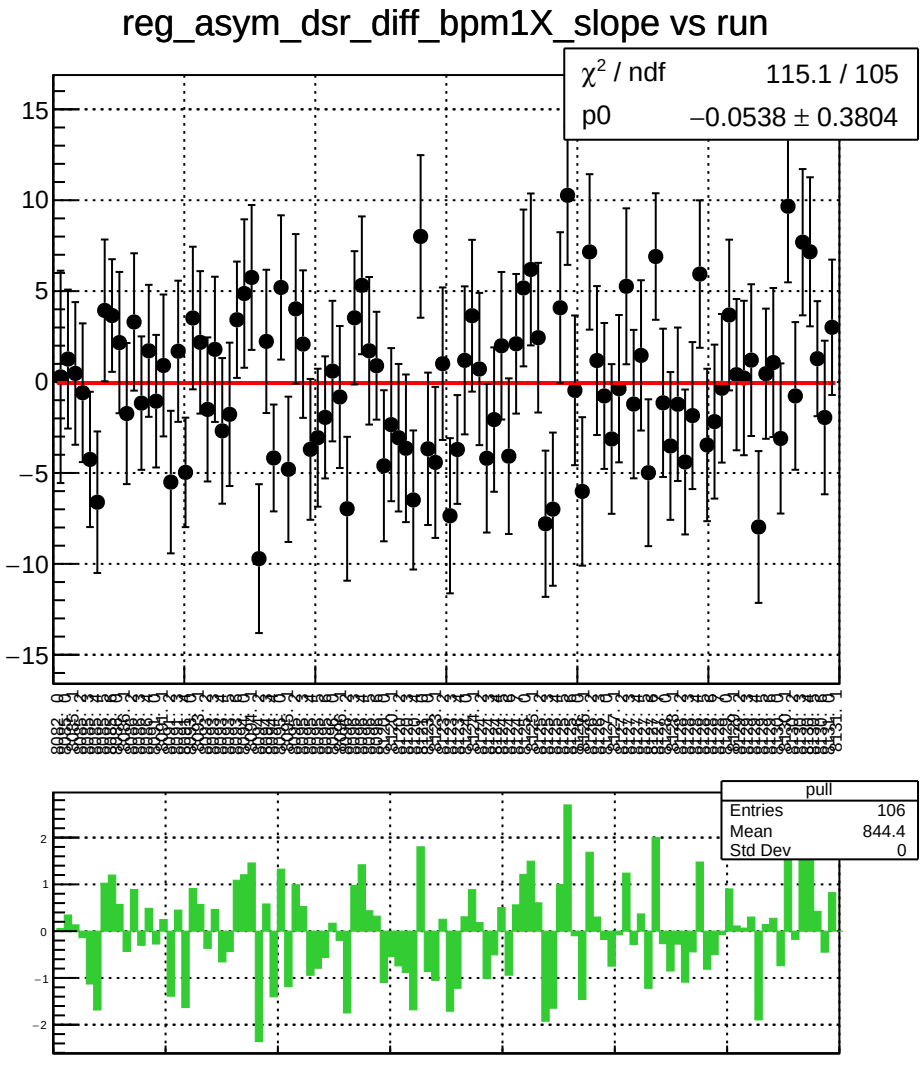

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 113.9 / 105
p0 0.09728 ± 0.2779
pull
Entries 106
Mean 705
Std Dev 0
pull1D
Entries 106
Mean −0.002009
Std Dev 1.036

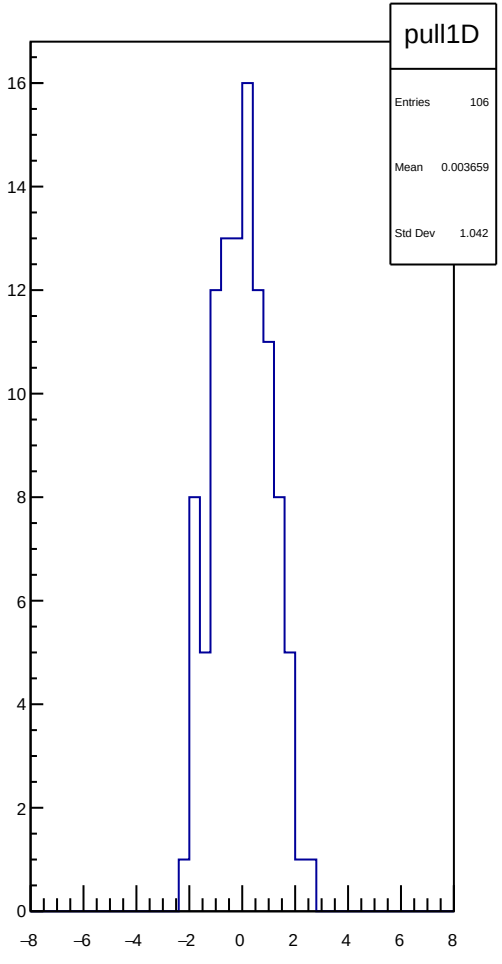

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 88.52 / 105
p0 −1.128 ± 0.4589
pull
Entries 106
Mean −548.2
Std Dev 0

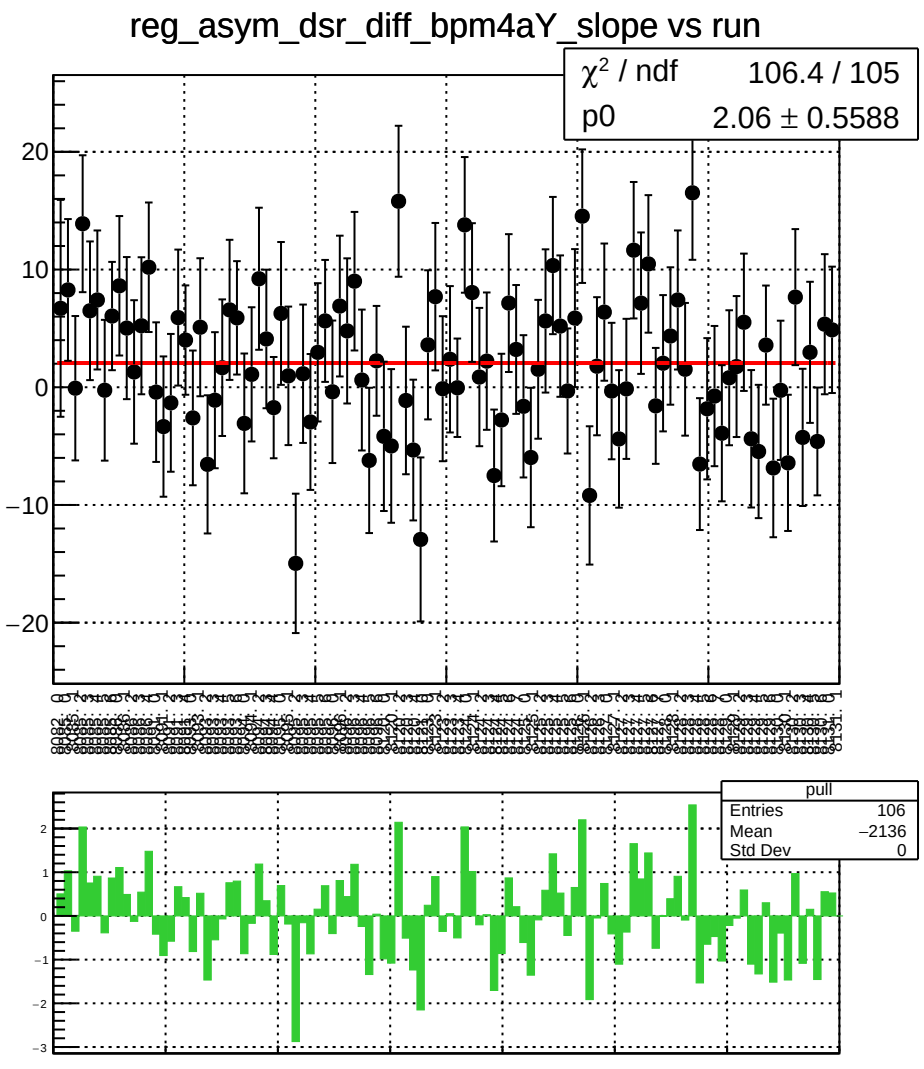

pull1D
Entries 106
Mean 0.002675
Std Dev 0.9138

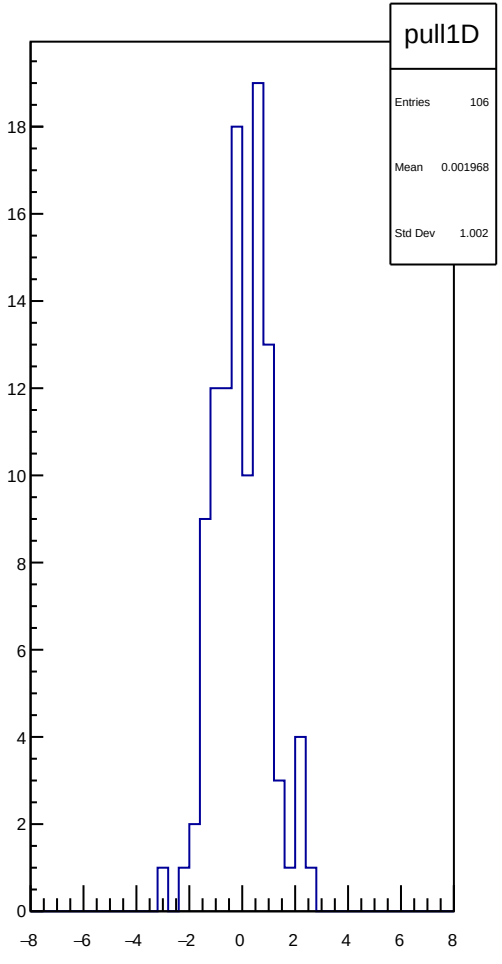

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 107.8 / 105
p0 −0.005755 ± 0.01752
pull
Entries 106
Mean 120.4
Std Dev 0

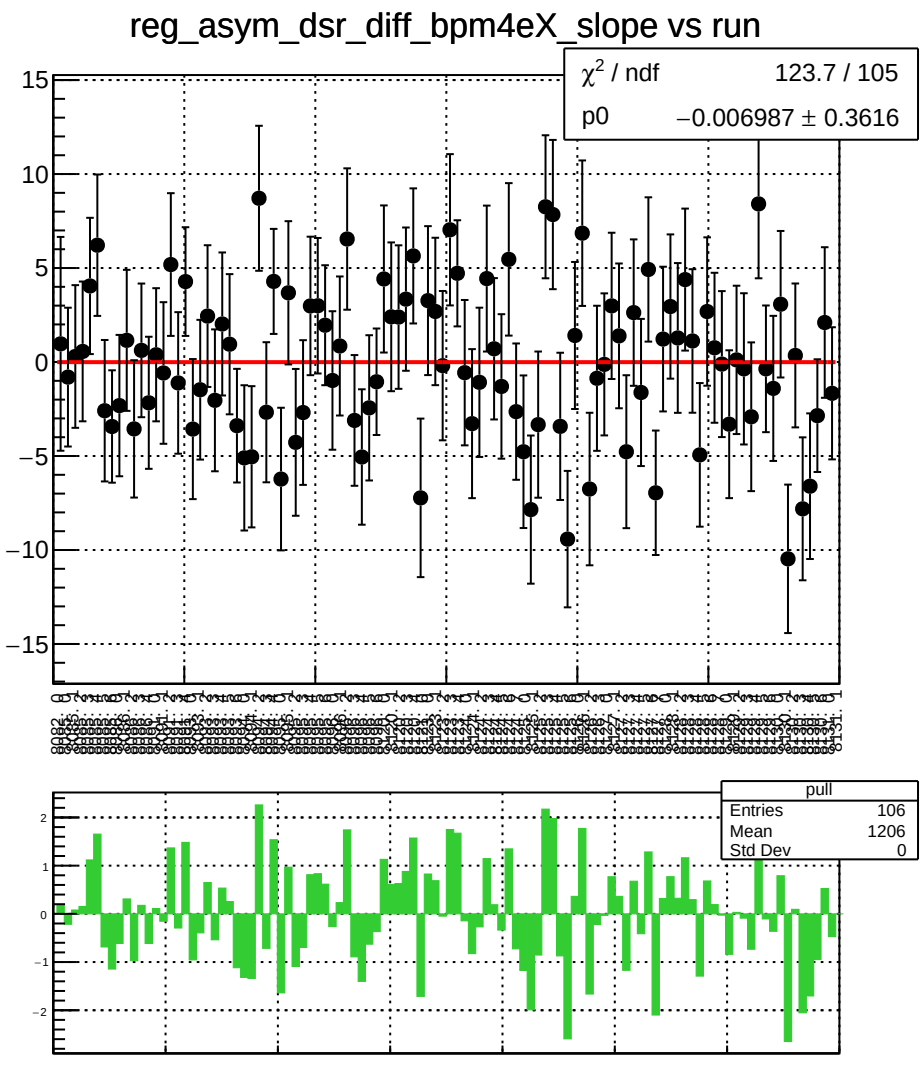

pull1D
Entries 106
Mean −0.01316
Std Dev 1.008

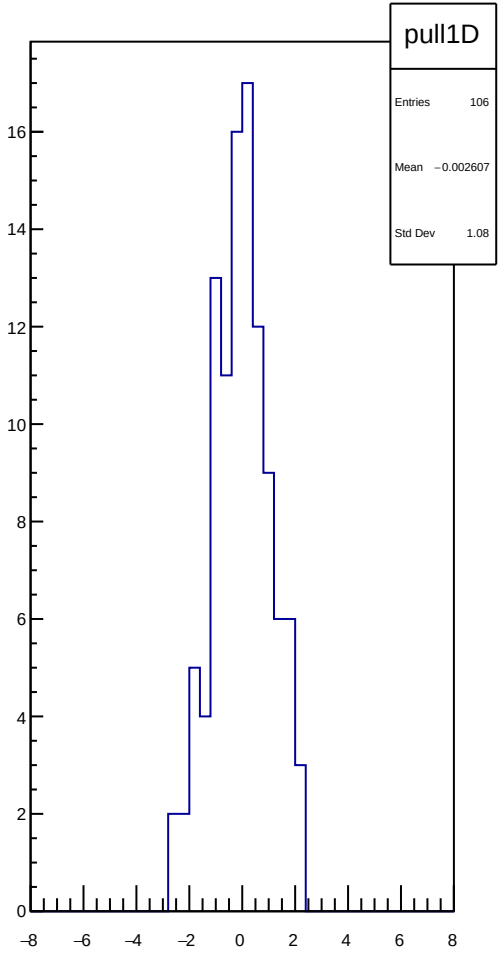

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 115.1 / 105
p0 −0.0538 ± 0.3804
pull
Entries 106
Mean 844.4
Std Dev 0

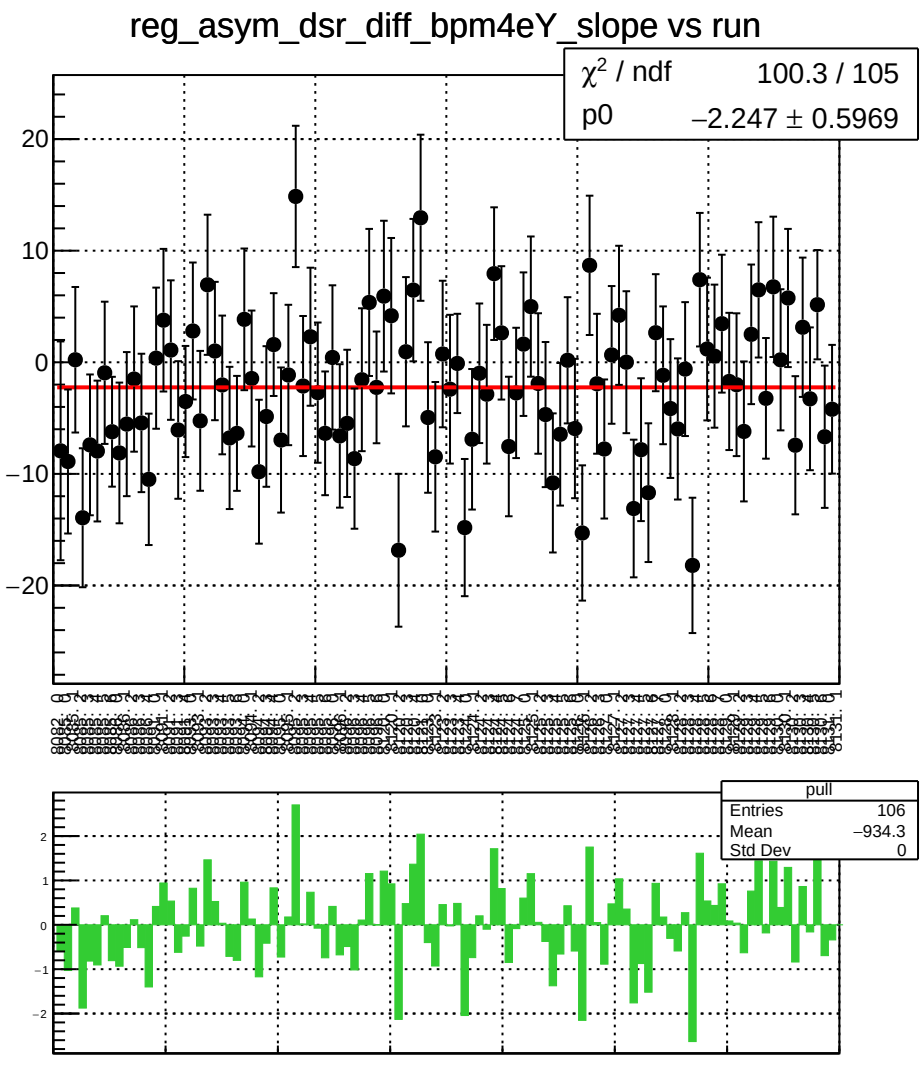

pull1D
Entries 106
Mean 0.003659
Std Dev 1.042

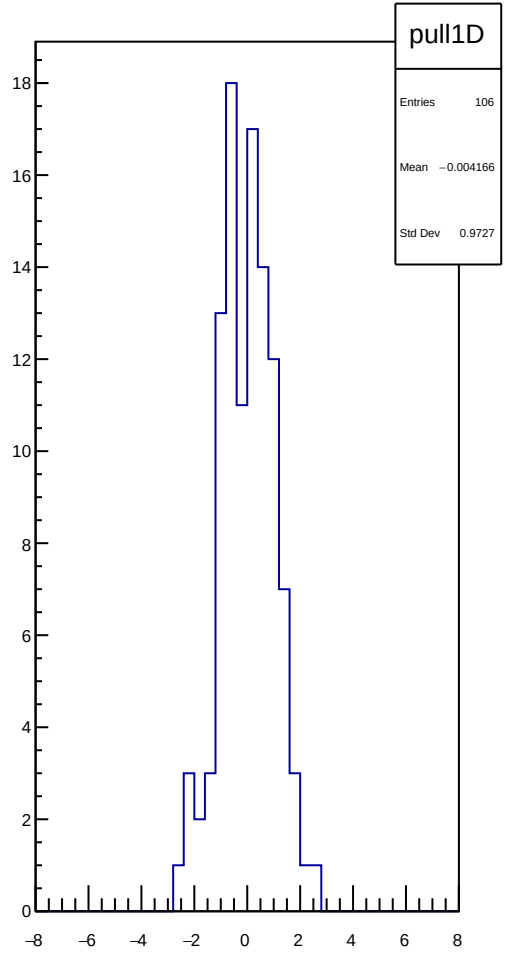

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 106.4 / 105
p0 2.06 ± 0.5588
pull
Entries 106
Mean −2136
Std Dev 0

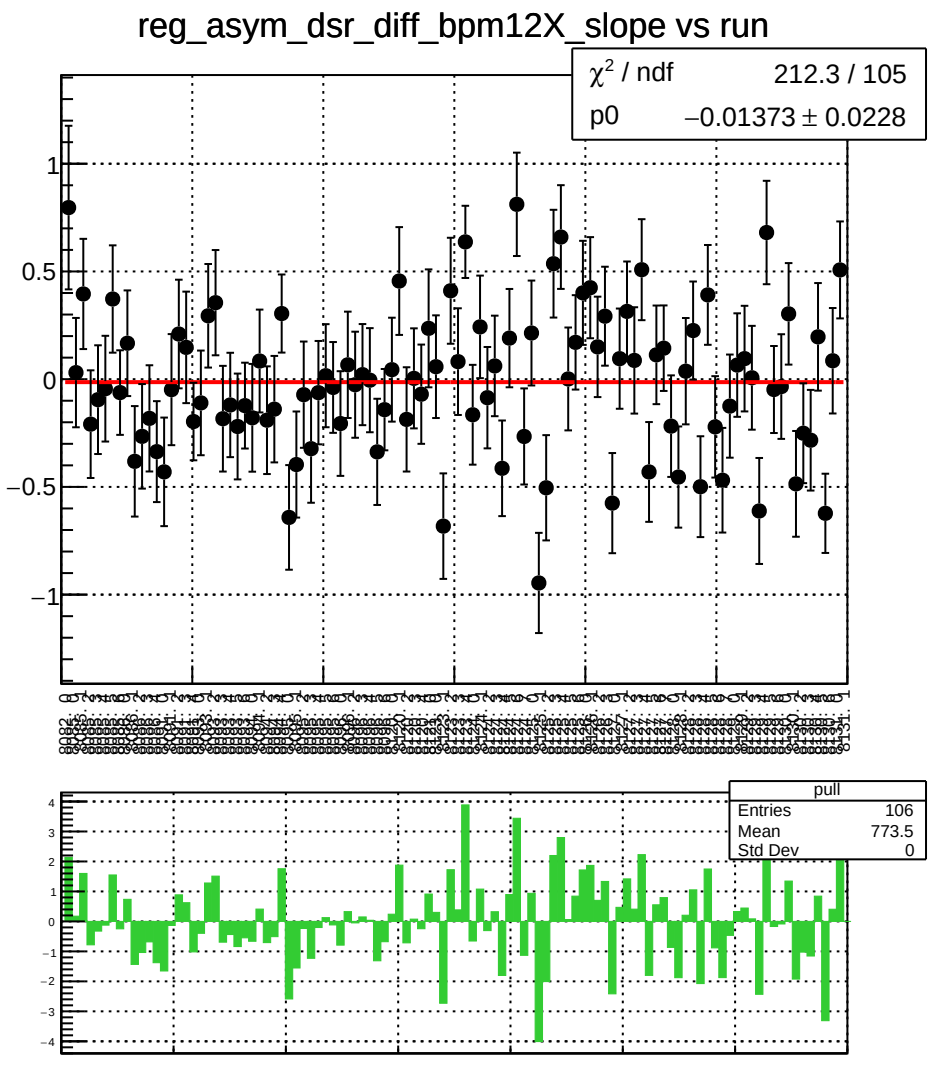

pull1D
Entries 106
Mean 0.001968
Std Dev 1.002

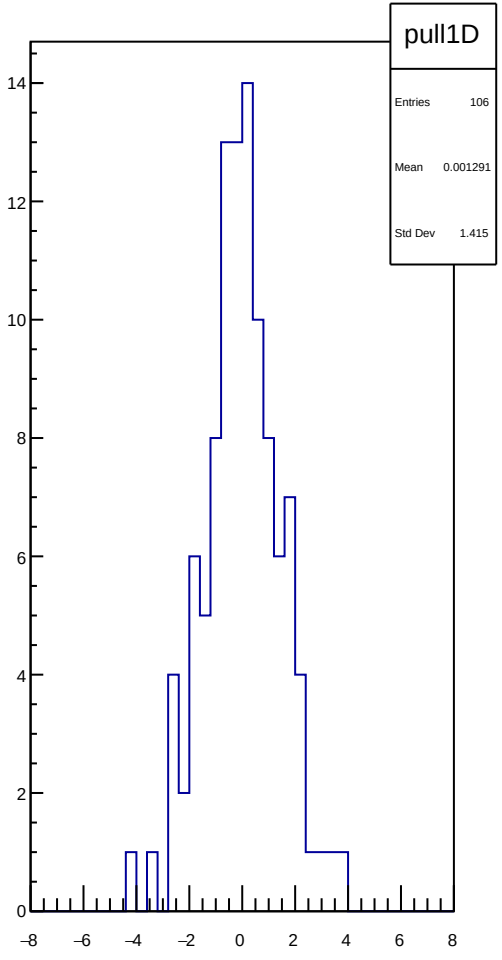

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 123.7 / 105
p0 −0.006987 ± 0.3616
pull
Entries 106
Mean 1206
Std Dev 0

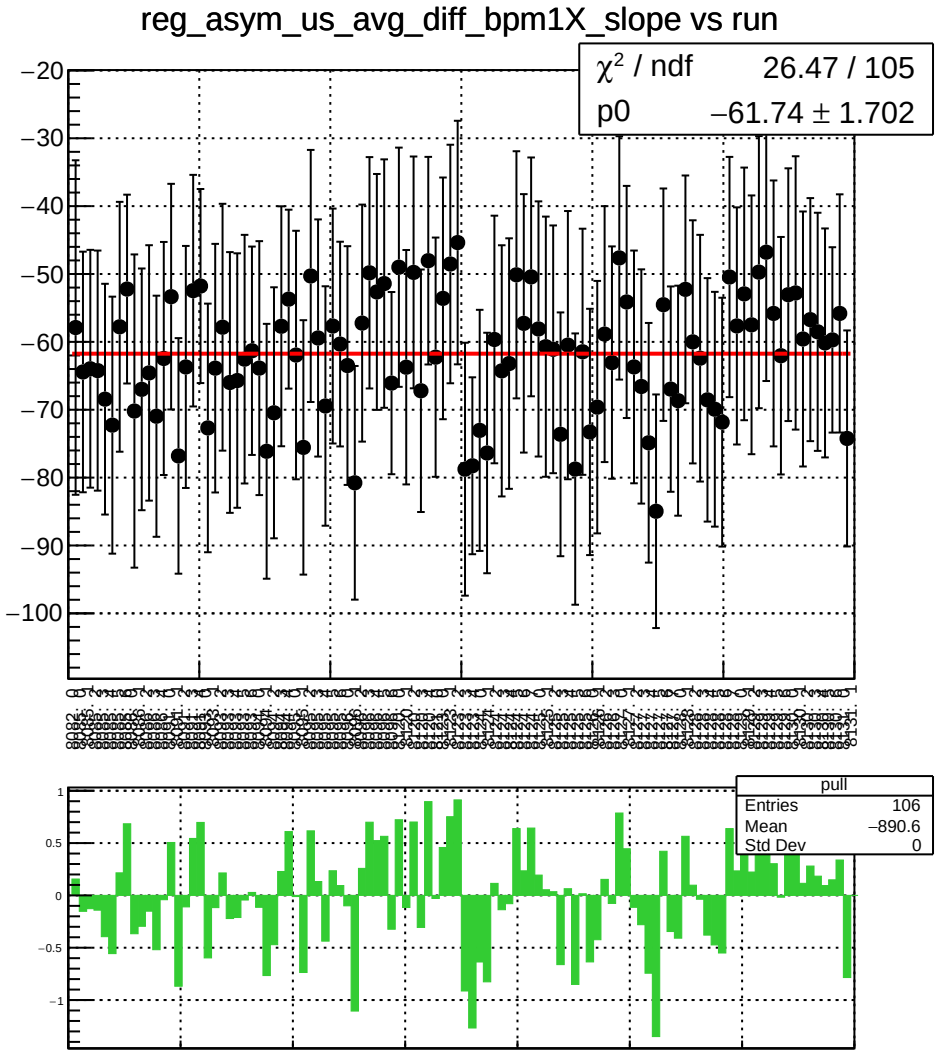

pull1D
Entries 106
Mean −0.002607
Std Dev 1.08

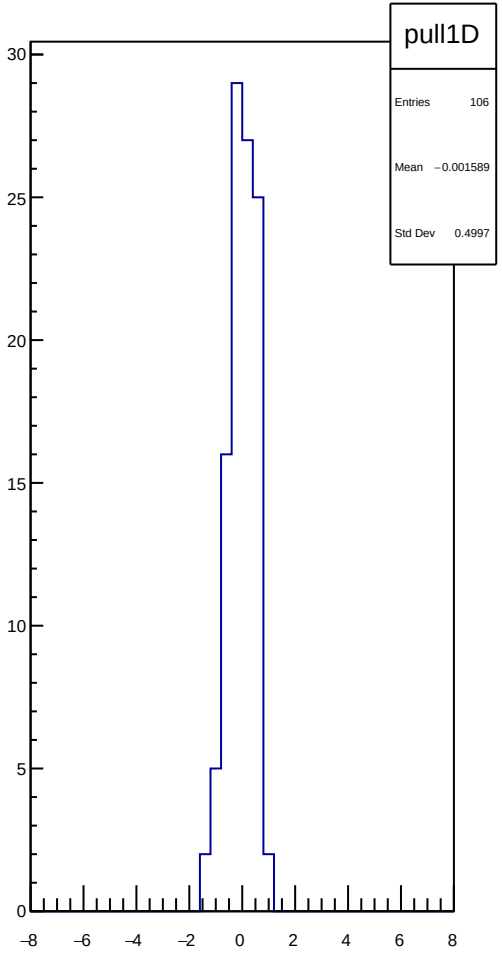

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 100.3 / 105
p0 −2.247 ± 0.5969
20
10
0
−10
−20
pull
Entries 106
Mean −934.3
Std Dev 0
2
1
0
−1
−2

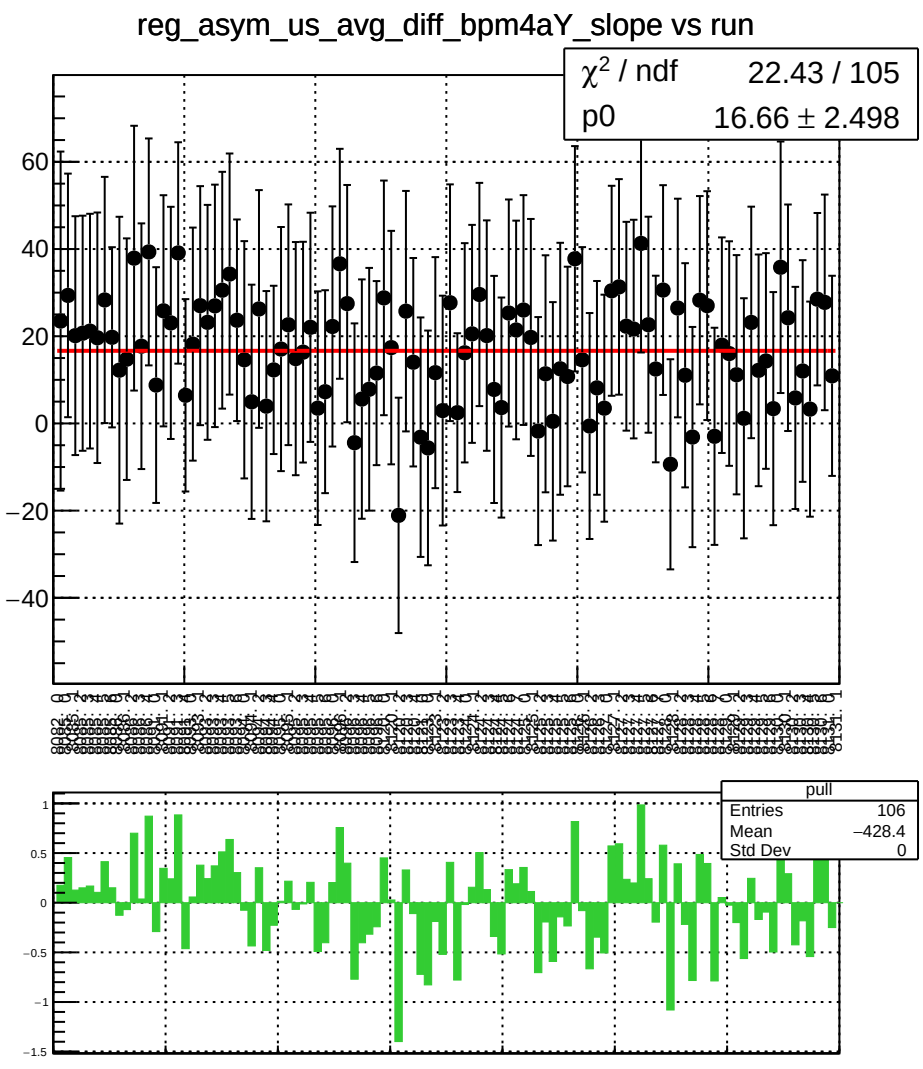

pull1D
Entries 106
Mean −0.004166
Std Dev 0.9727
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

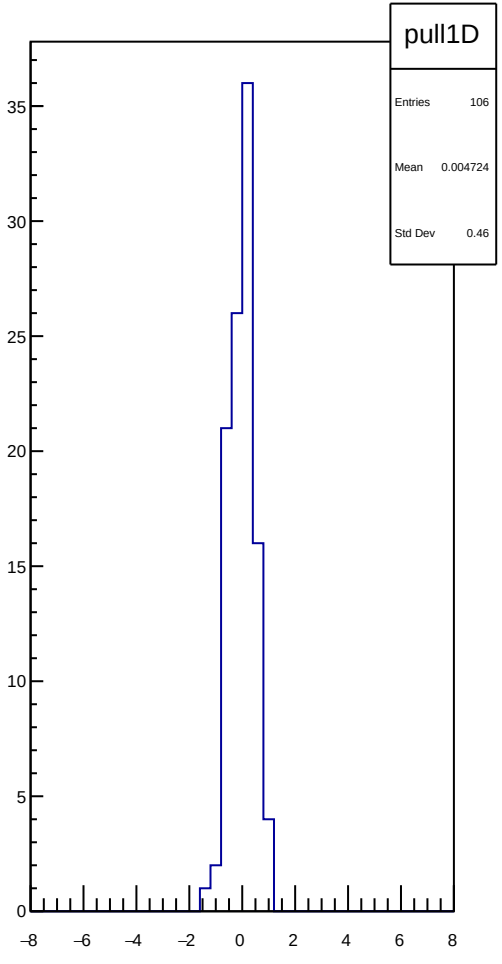

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 212.3 / 105
p0 −0.01373 ± 0.0228
pull
Entries 106
Mean 773.5
Std Dev 0

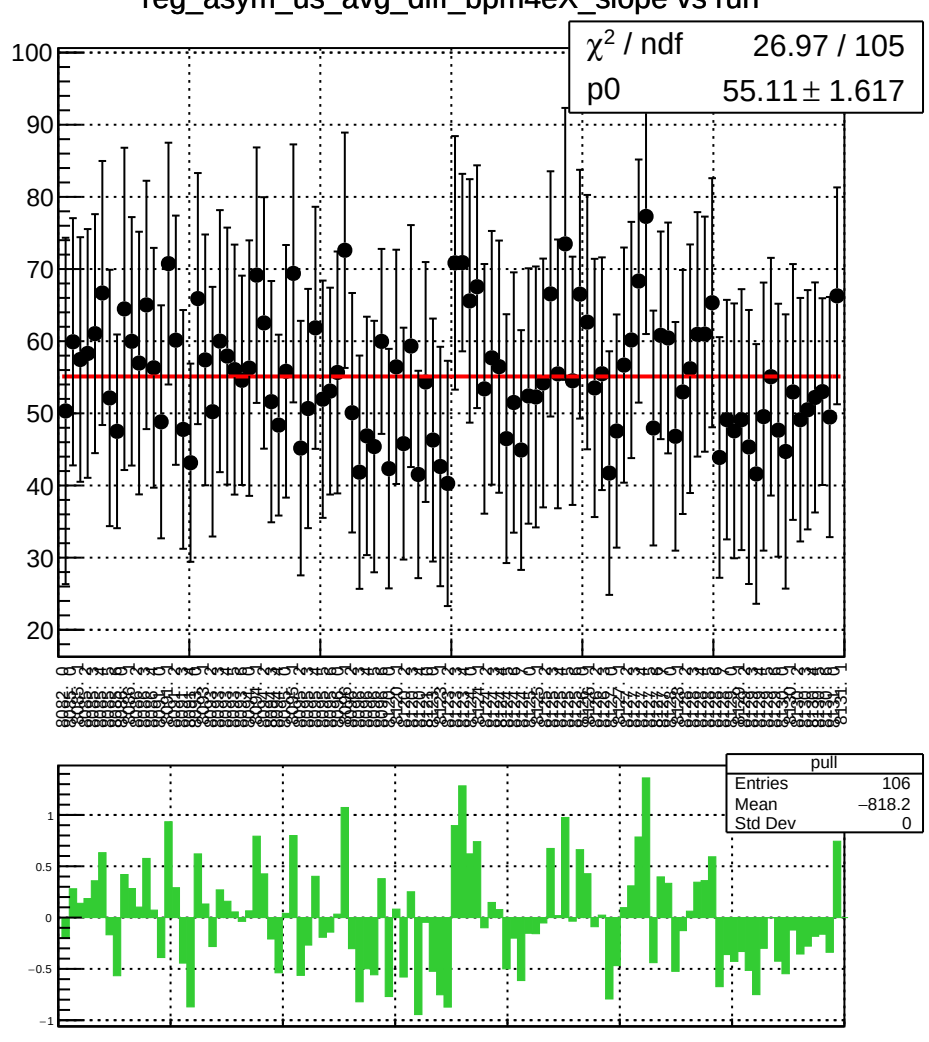

pull1D
Entries 106
Mean 0.001291
Std Dev 1.415

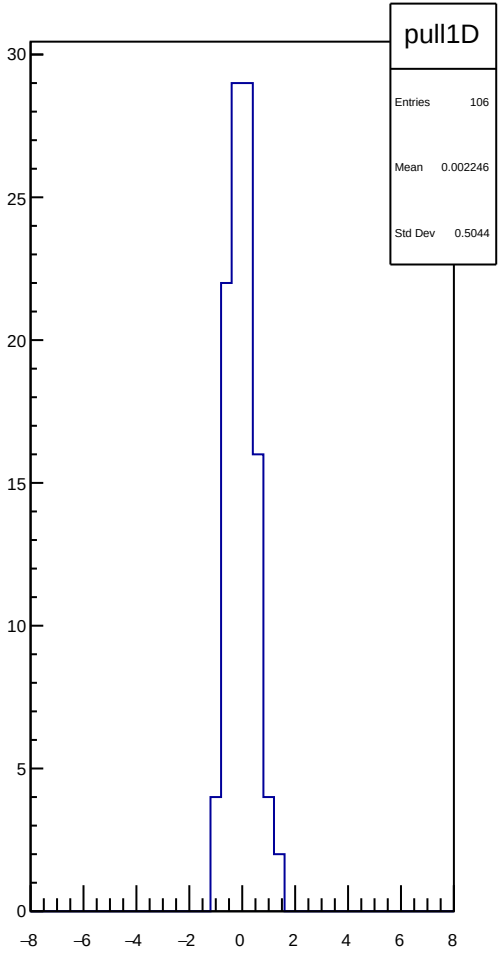

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 26.47 / 105
p0 −61.74 ± 1.702
pull
Entries 106
Mean −890.6
Std Dev 0

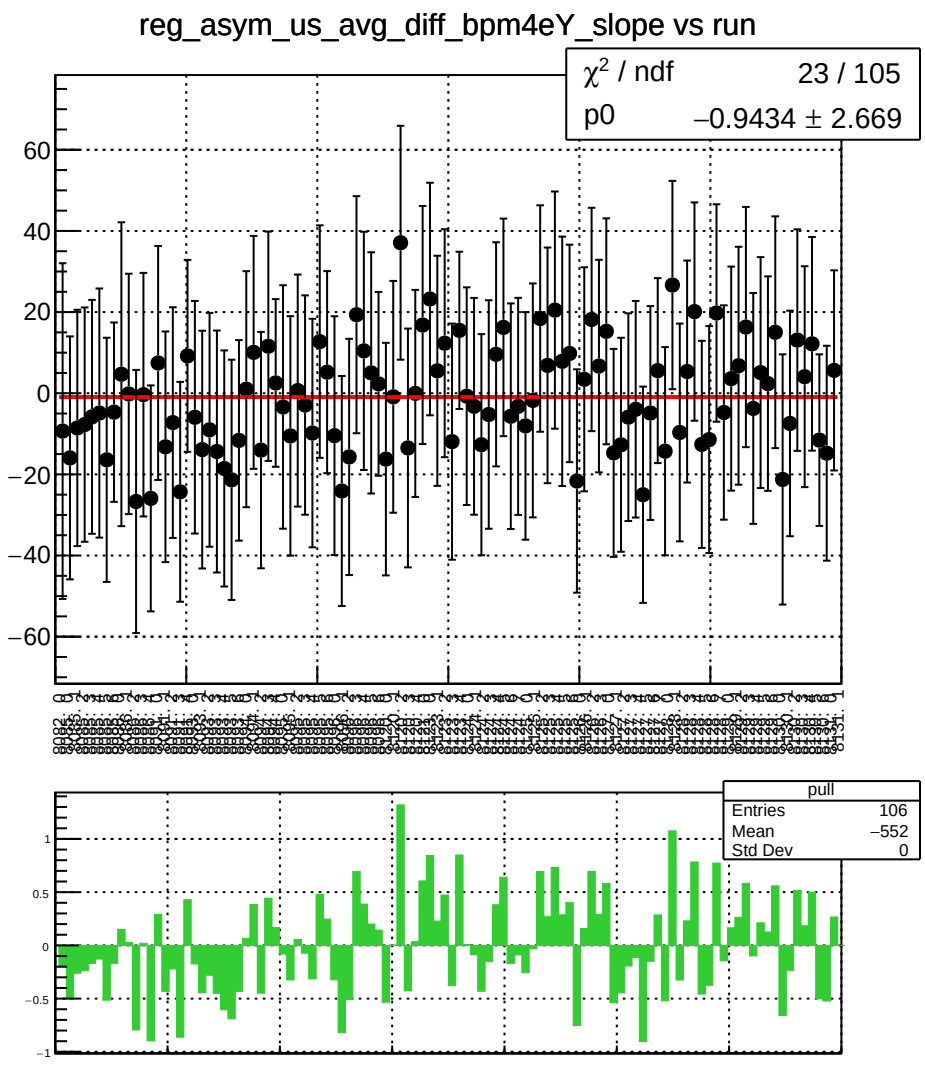

pull1D
Entries 106
Mean −0.001589
Std Dev 0.4997

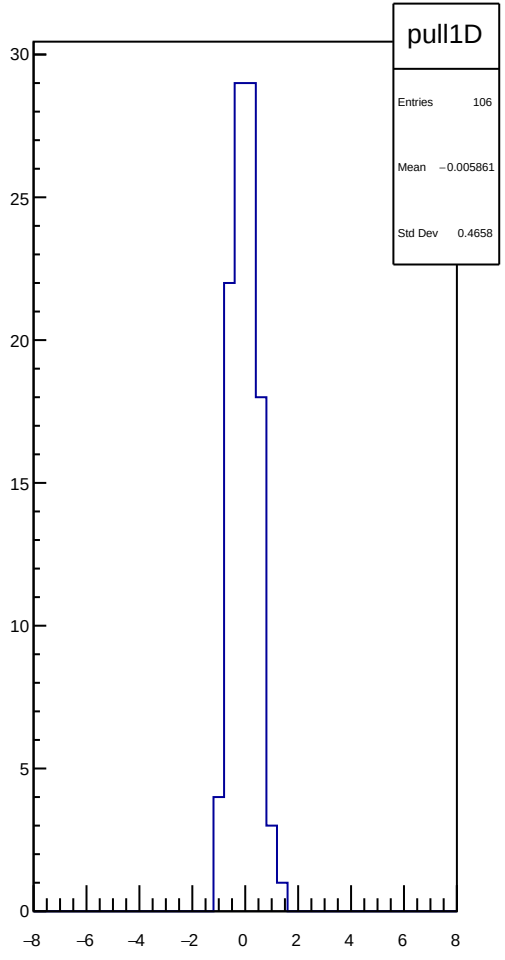

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 22.43 / 105
p0 16.66 ± 2.498
pull
Entries 106
Mean −428.4
Std Dev 0

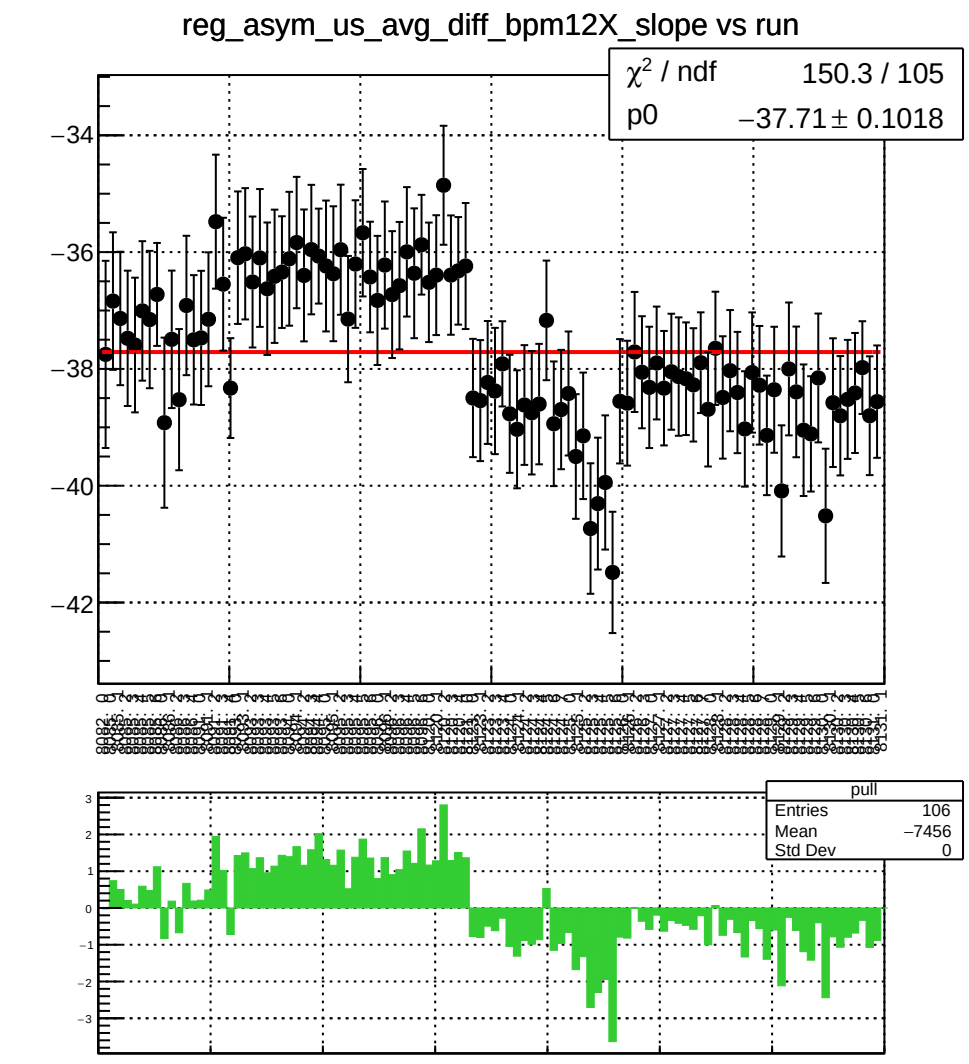

pull1D
Entries 106
Mean 0.004724
Std Dev 0.46

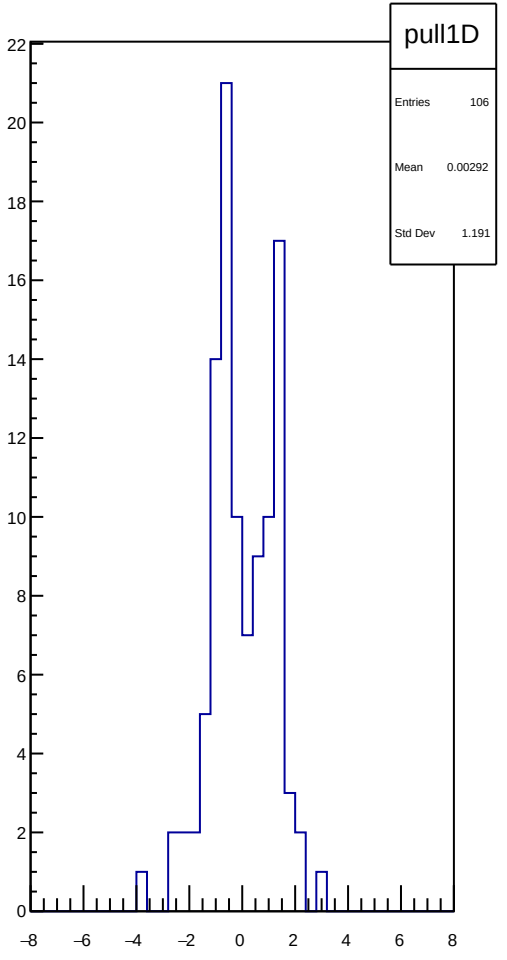

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 26.97 / 105
p0 55.11 ± 1.617
pull
Entries 106
Mean −818.2
Std Dev 0

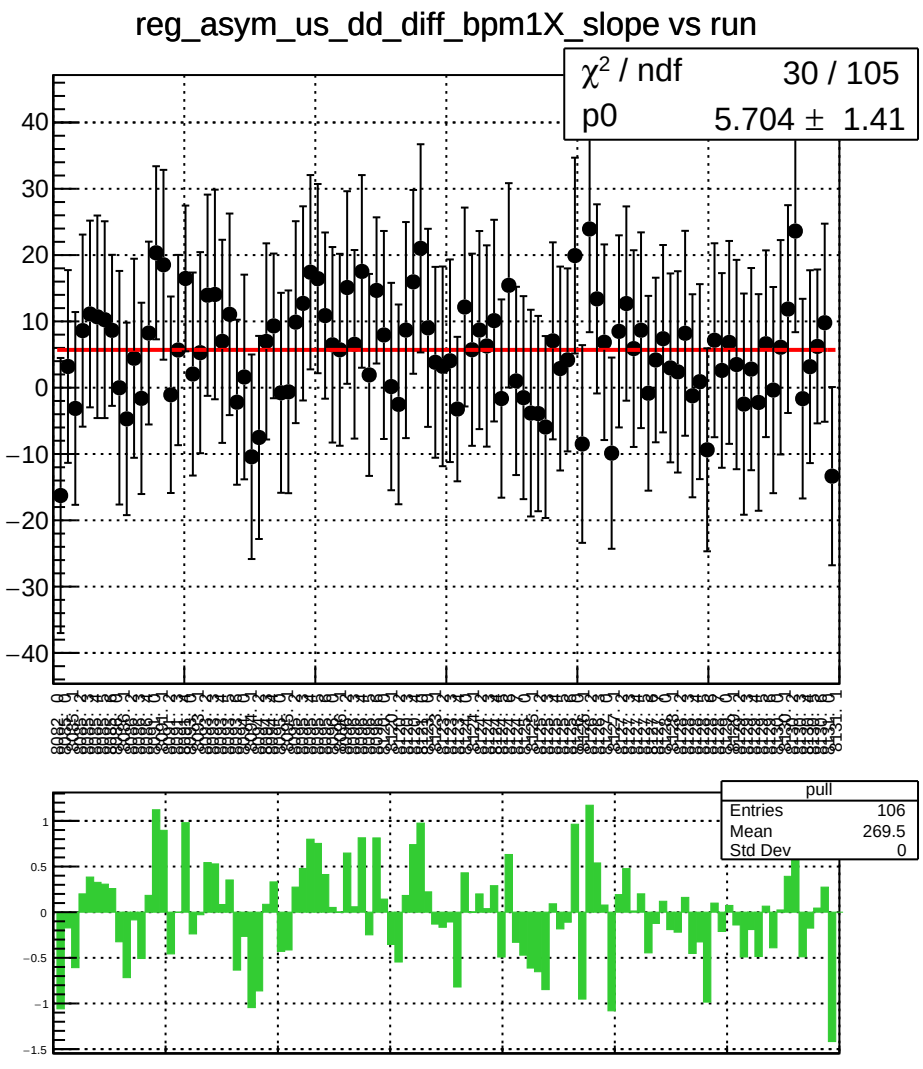

pull1D
Entries 106
Mean 0.002246
Std Dev 0.5044

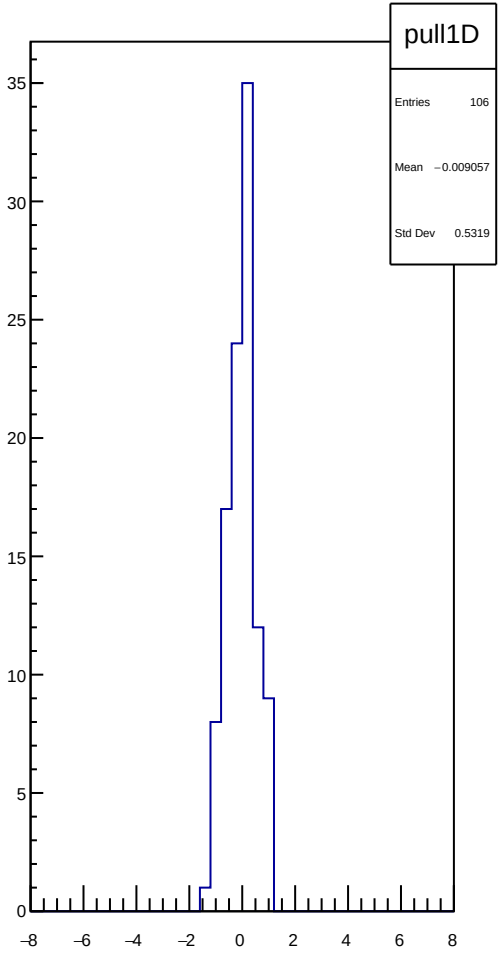

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 23 / 105
p0 −0.9434 ± 2.669
60
40
20
0
−20
−40
−60
pull
Entries 106
Mean −552
Std Dev 0
1
0.5
0
−0.5
−1

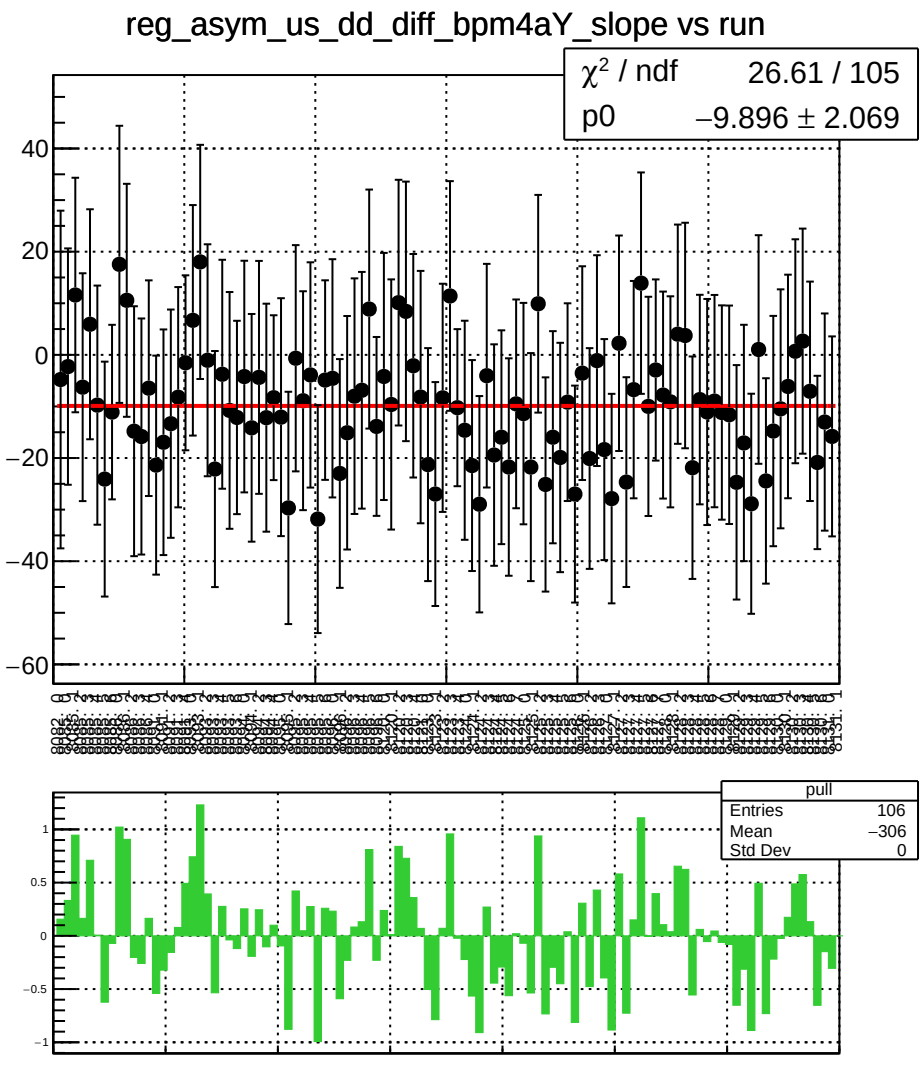

pull1D
Entries 106
Mean −0.005861
Std Dev 0.4658
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

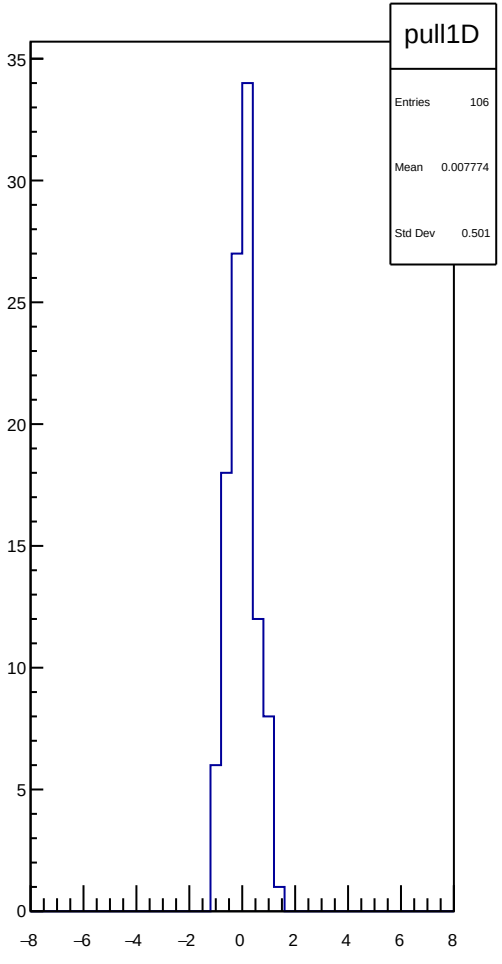

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 150.3 / 105
p0 −37.71 ± 0.1018
−34
−36
−38
−40
−42
pull
Entries 106
Mean −7456
Std Dev 0
3
2
1
0
−1
−2
−3

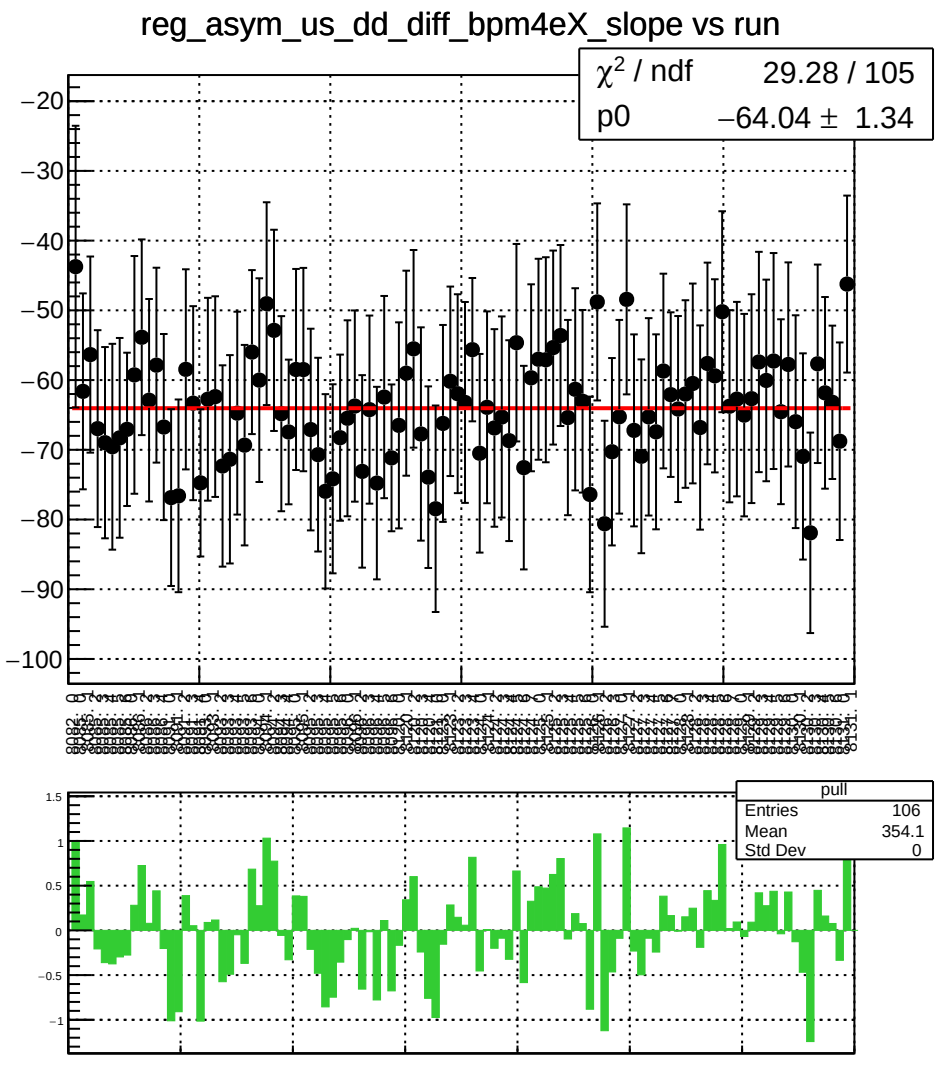

pull1D
Entries 106
Mean 0.00292
Std Dev 1.191
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

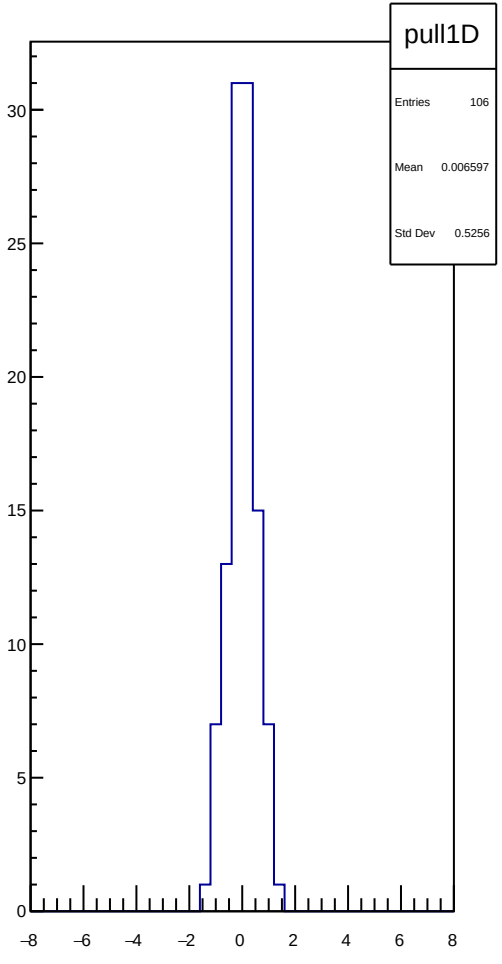

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 30 / 105
p0 5.704 ± 1.41
pull
Entries 106
Mean 269.5
Std Dev 0

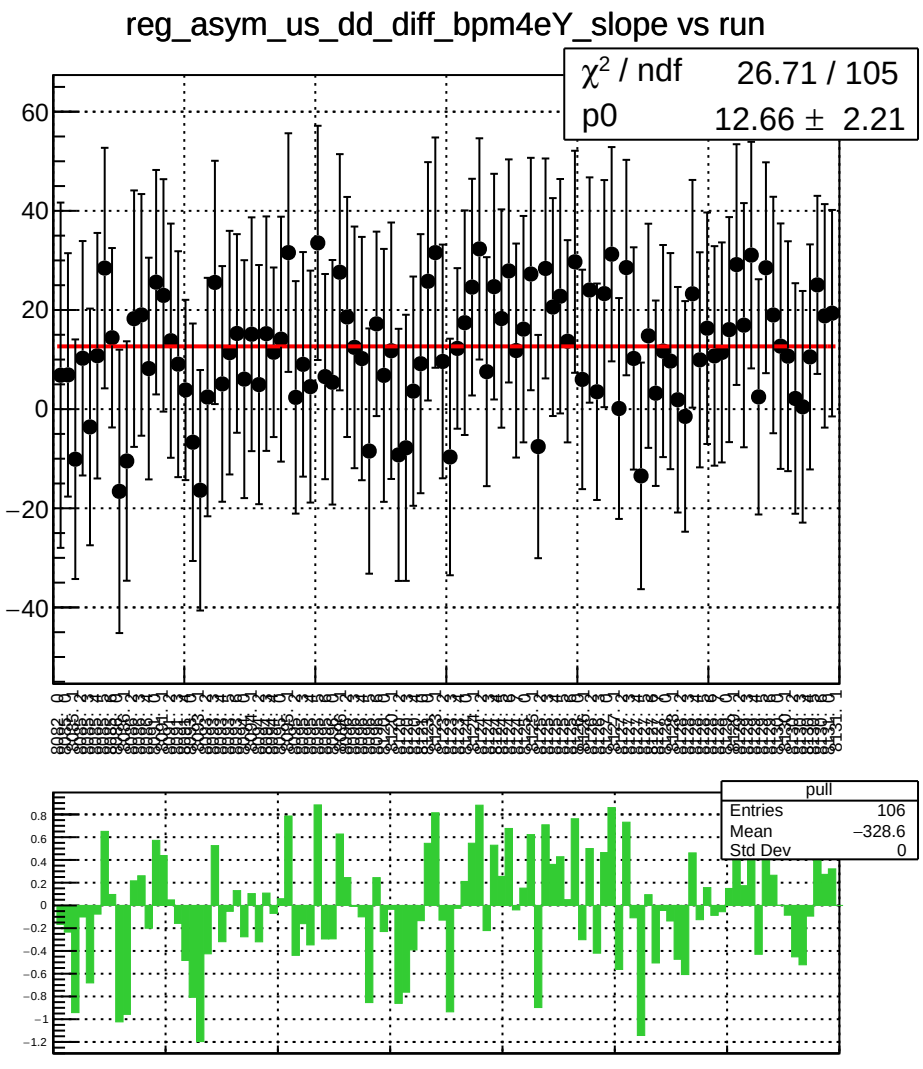

pull1D
Entries 106
Mean −0.009057
Std Dev 0.5319

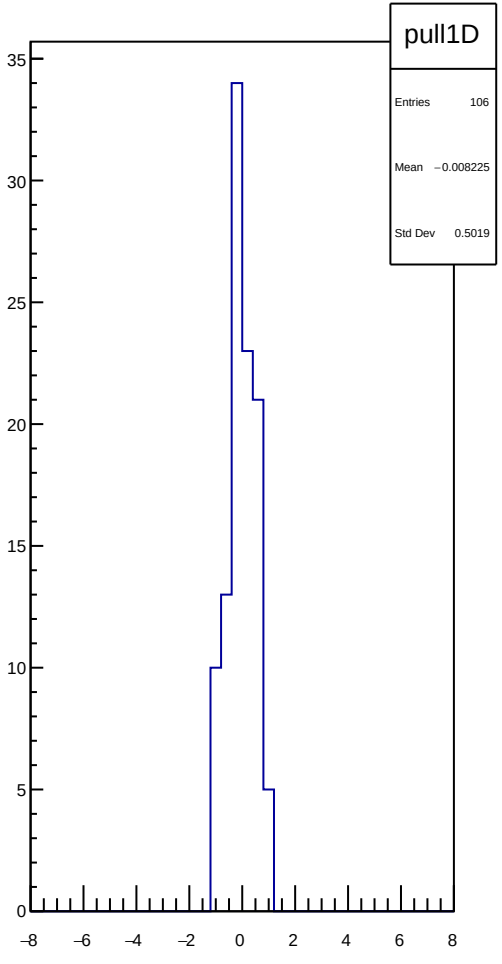

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 26.61 / 105
p0 −9.896 ± 2.069
pull
Entries 106
Mean −306
Std Dev 0

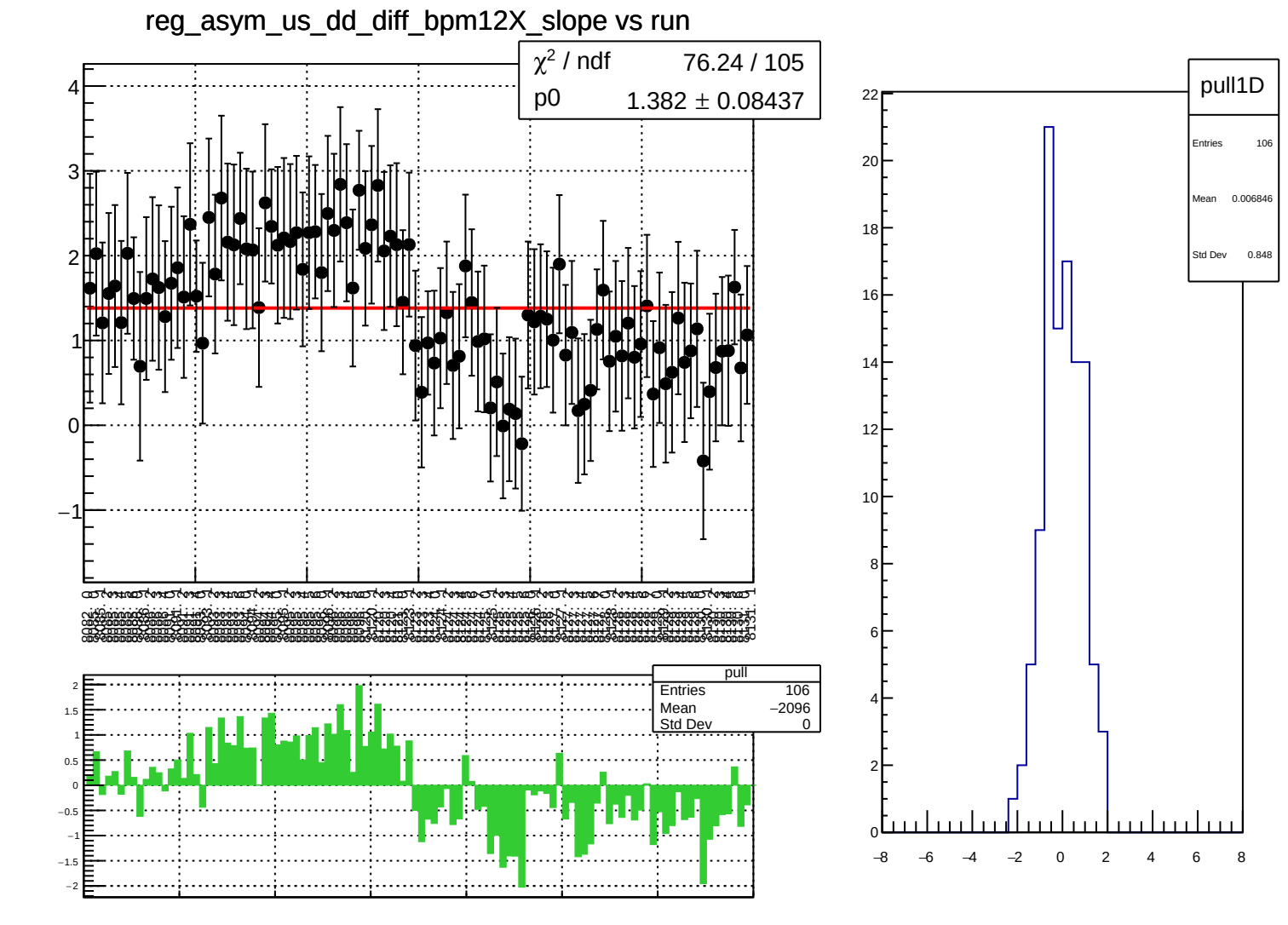

pull1D
Entries 106
Mean 0.007774
Std Dev 0.501

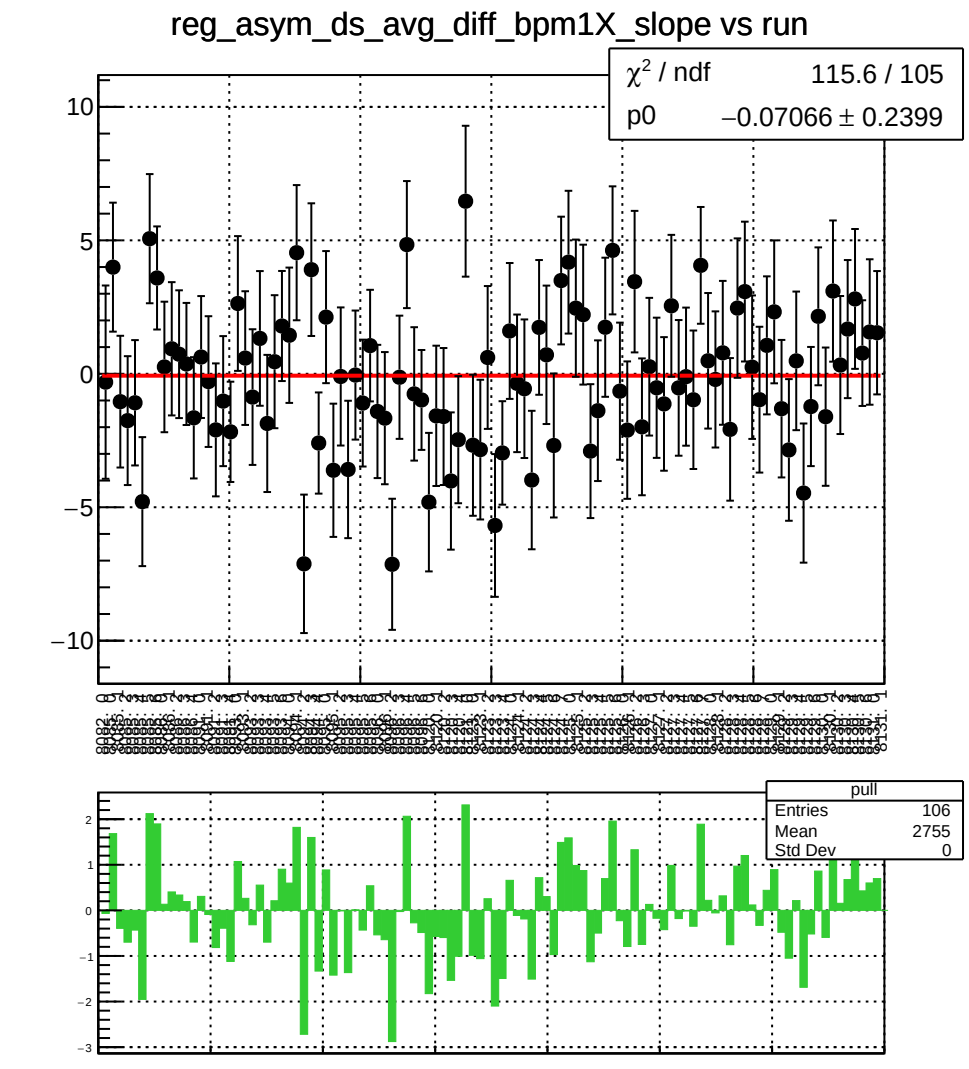

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 29.28 / 105
p0 −64.04 ± 1.34
pull
Entries 106
Mean 354.1
Std Dev 0

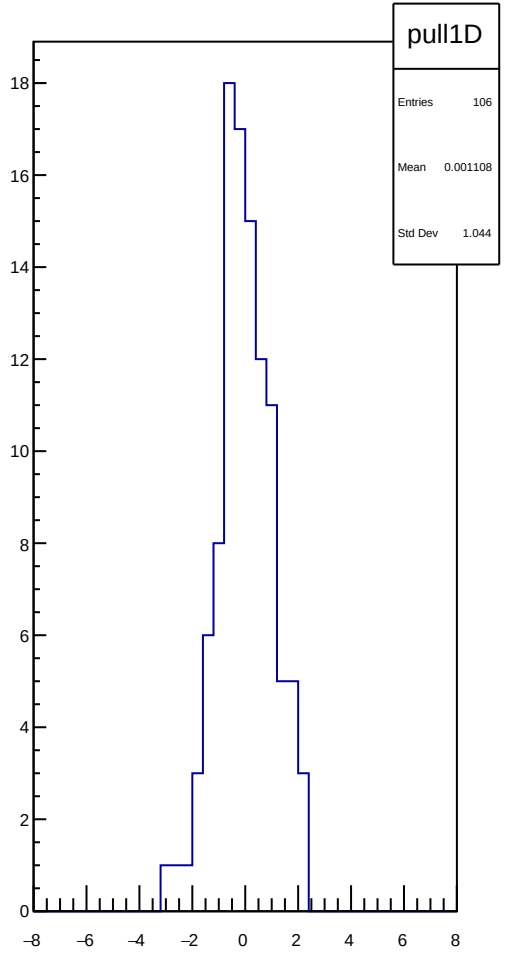

pull1D
Entries 106
Mean 0.006597
Std Dev 0.5256

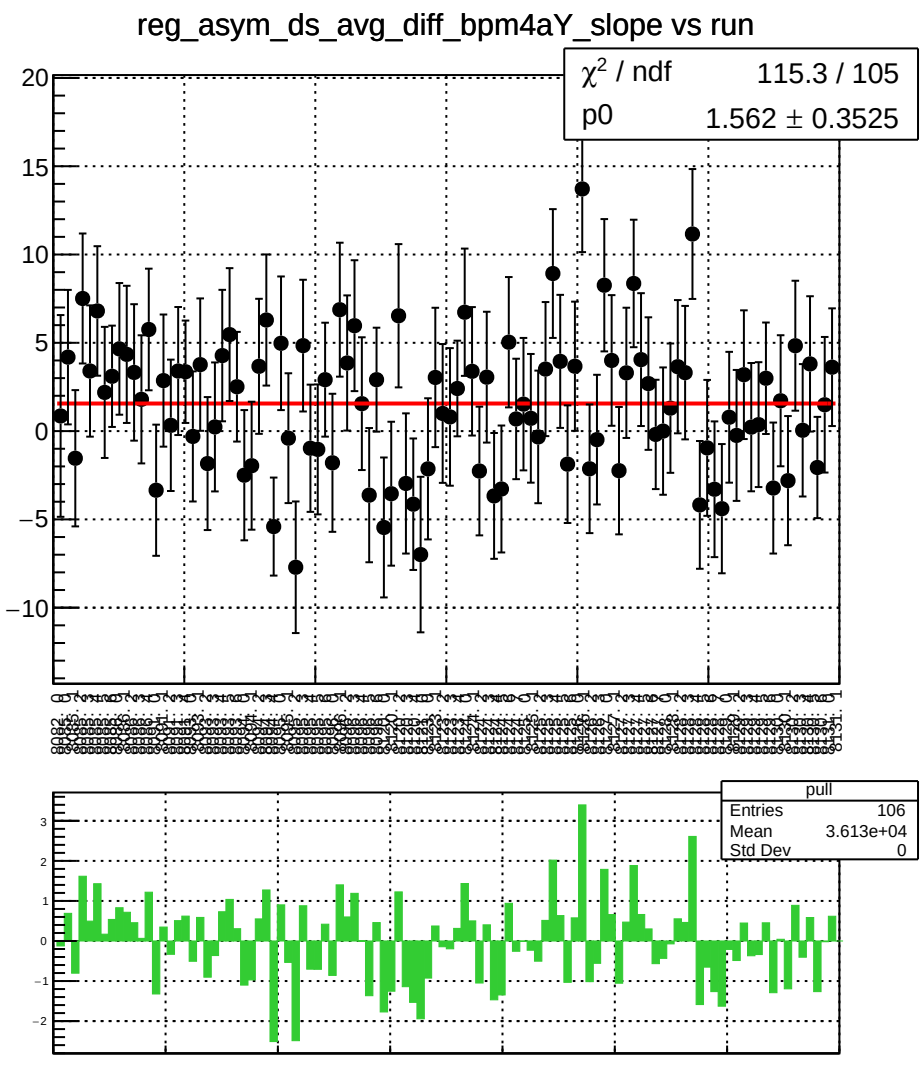

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 26.71 / 105
p0 12.66 ± 2.21
pull
Entries 106
Mean −328.6
Std Dev 0

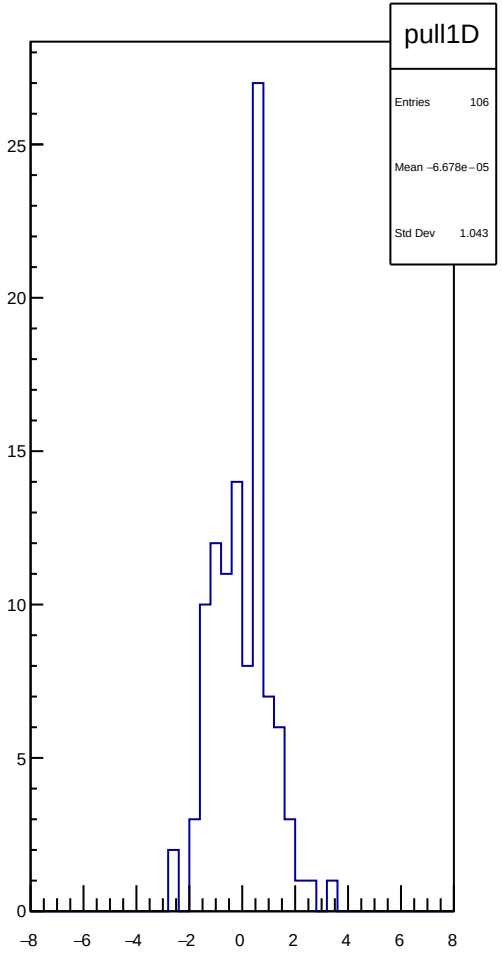

pull1D
Entries 106
Mean −0.008225
Std Dev 0.5019

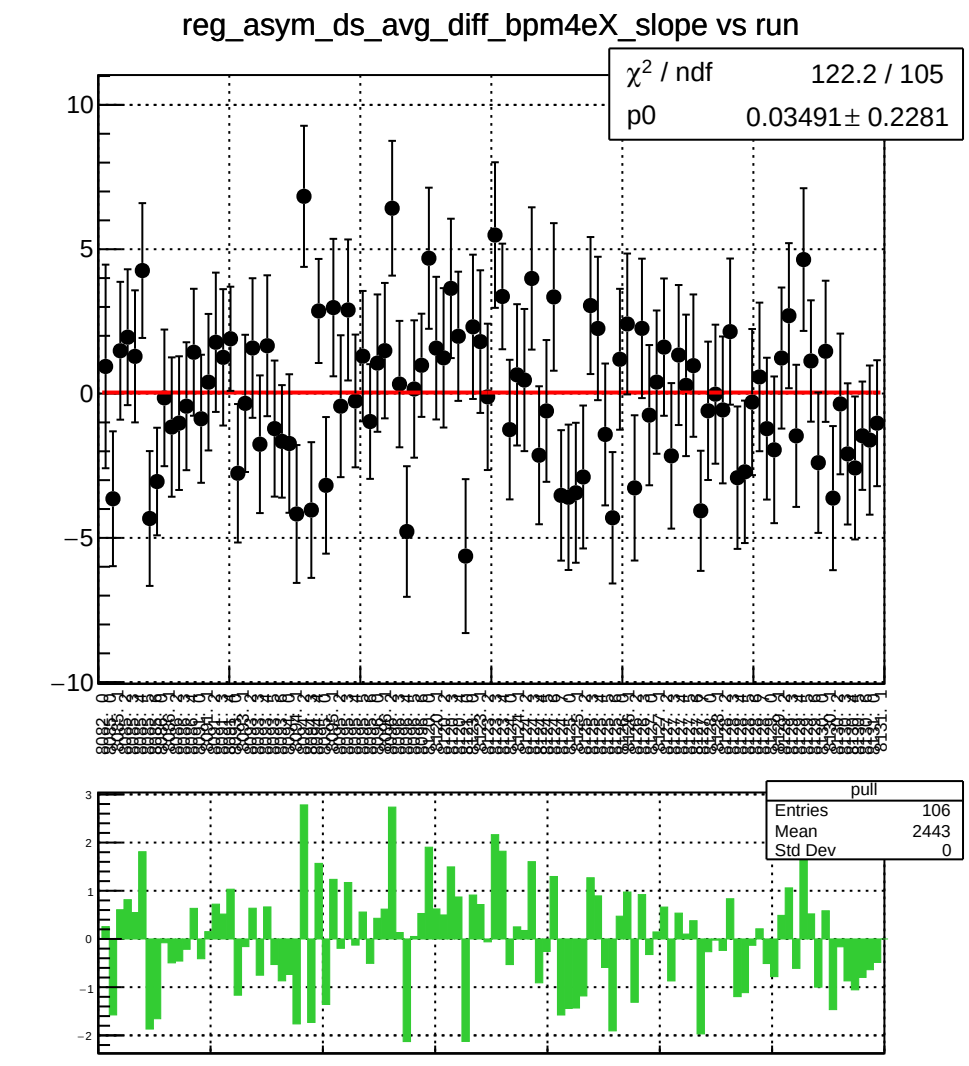

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 76.24 / 105
p0 1.382 ± 0.08437
pull
Entries 106
Mean −2096
Std Dev 0
pull1D
Entries 106
Mean 0.006846
Std Dev 0.848

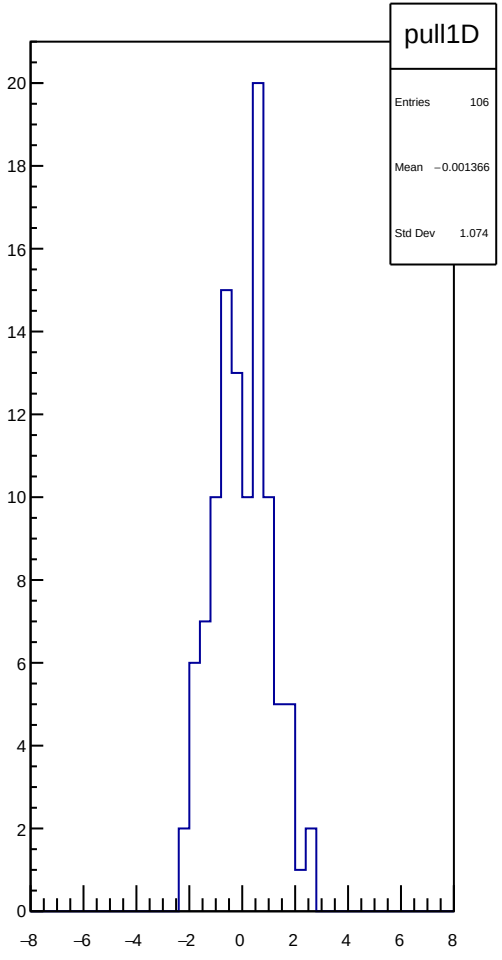

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 115.6 / 105
p0 −0.07066 ± 0.2399
10
5
0
−5
−10
pull
Entries 106
Mean 2755
Std Dev 0
2
1
0
−1
−2
−3

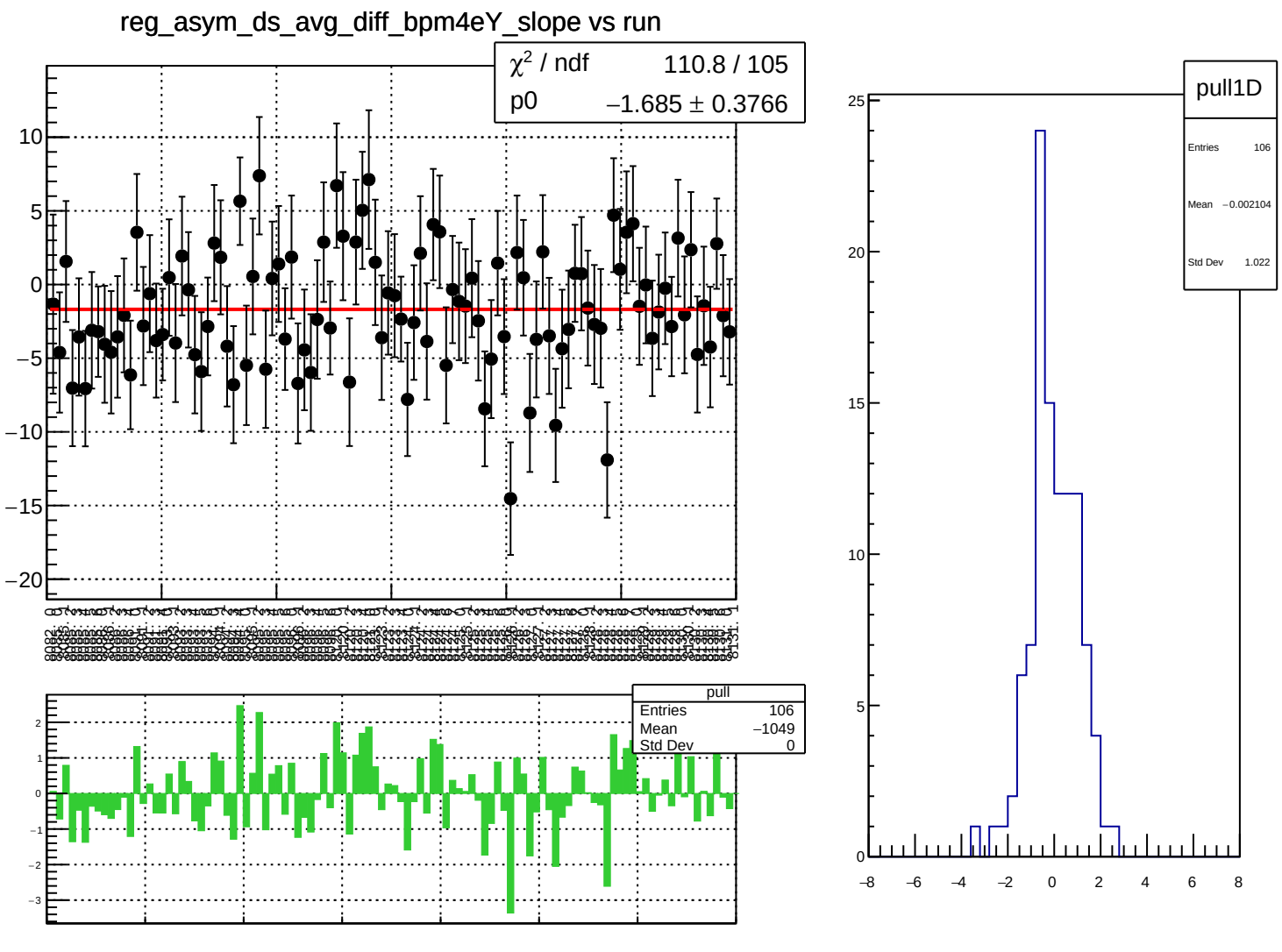

pull1D
Entries 106
Mean 0.001108
Std Dev 1.044
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

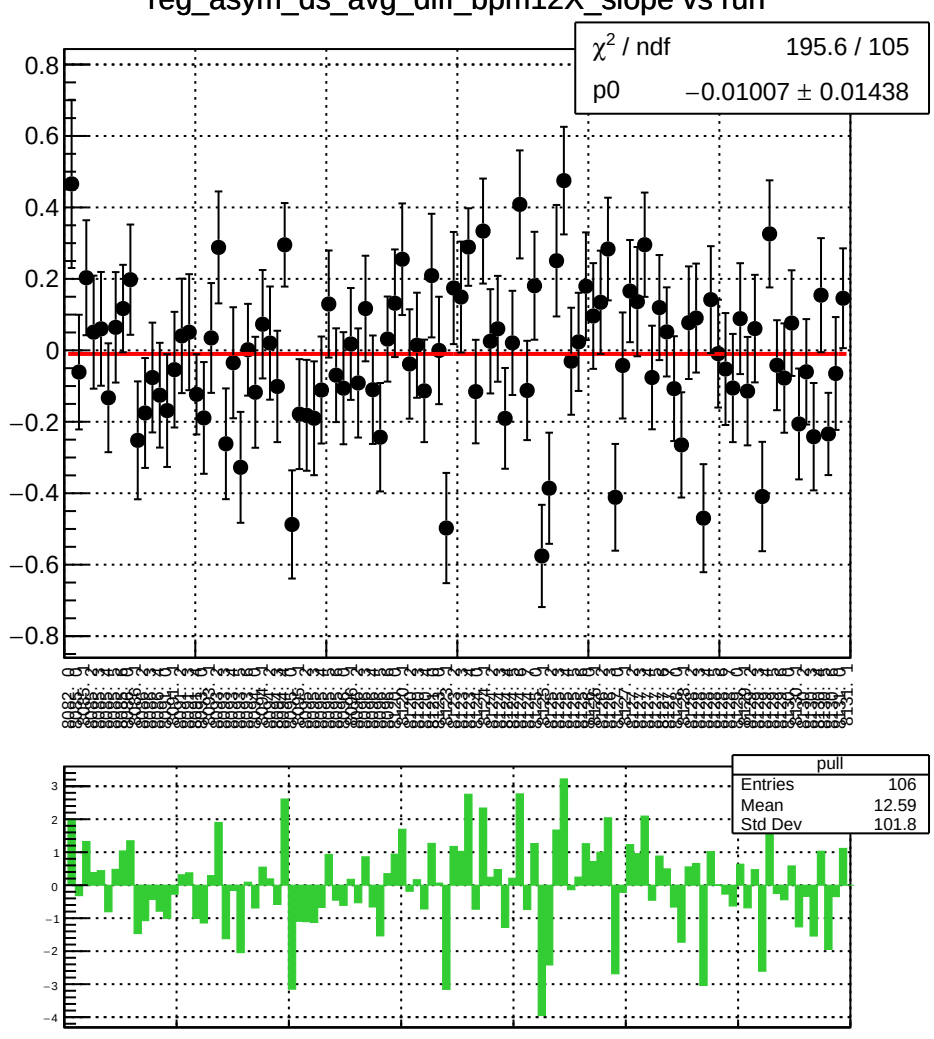

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 115.3 / 105
p0 1.562 ± 0.3525
pull
Entries 106
Mean 3.613e+04
Std Dev 0

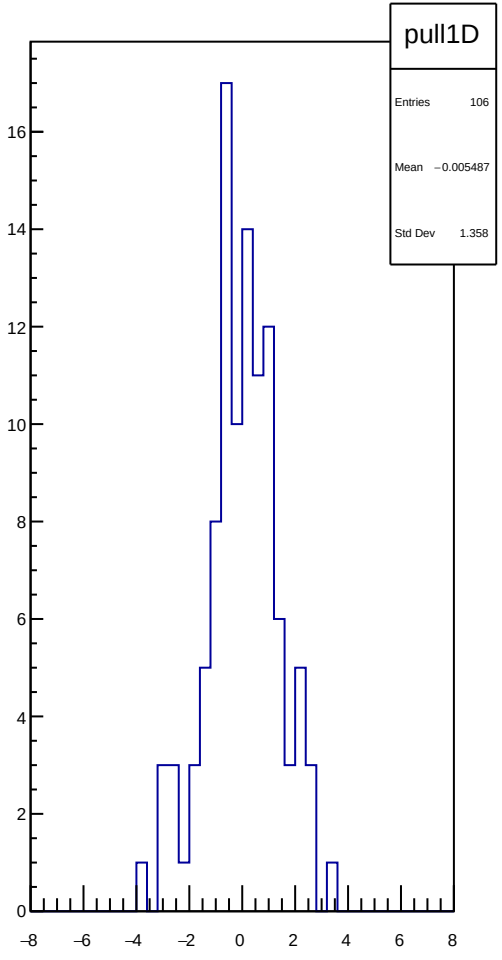

pull1D
Entries 106
Mean −6.678e−05
Std Dev 1.043

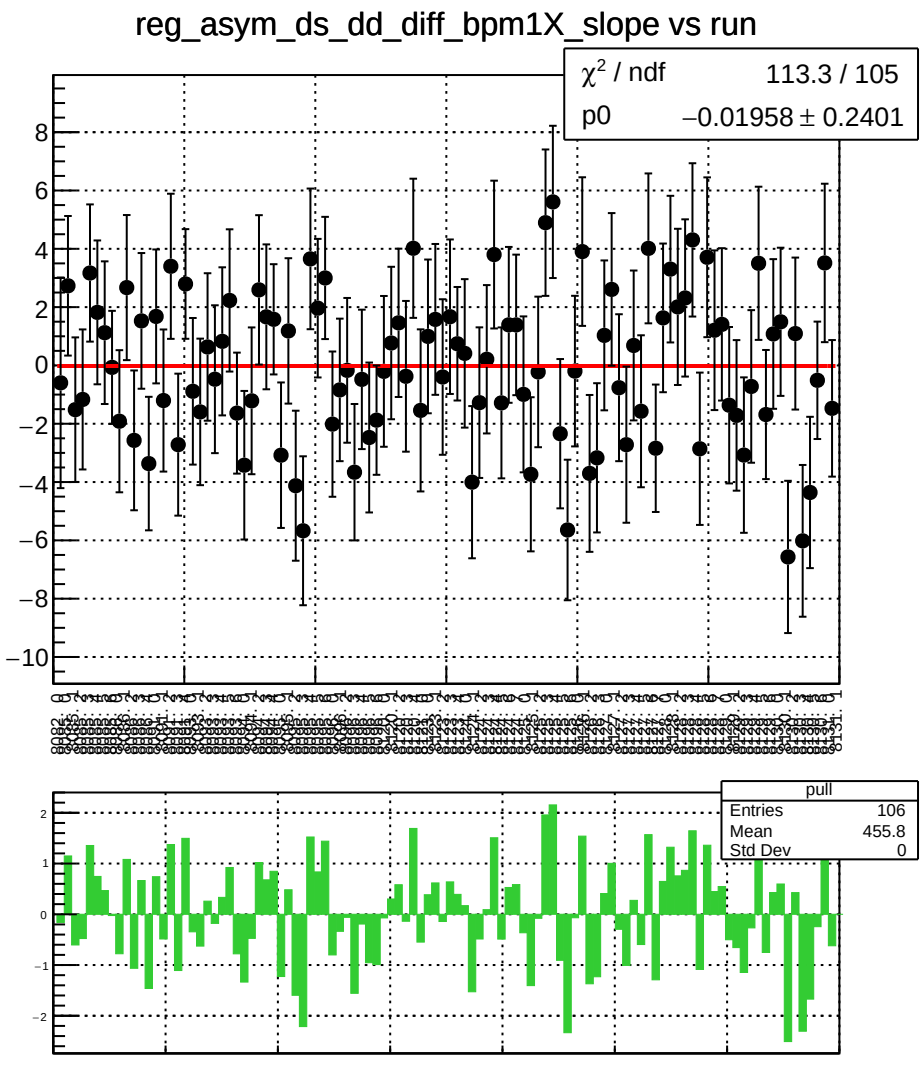

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 122.2 / 105
p0 0.03491 ± 0.2281
pull
Entries 106
Mean 2443
Std Dev 0

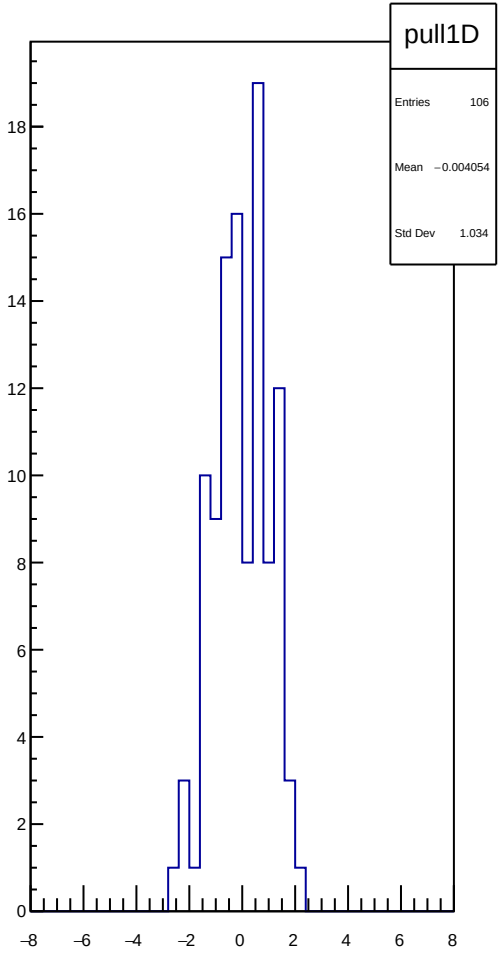

pull1D
Entries 106
Mean −0.001366
Std Dev 1.074

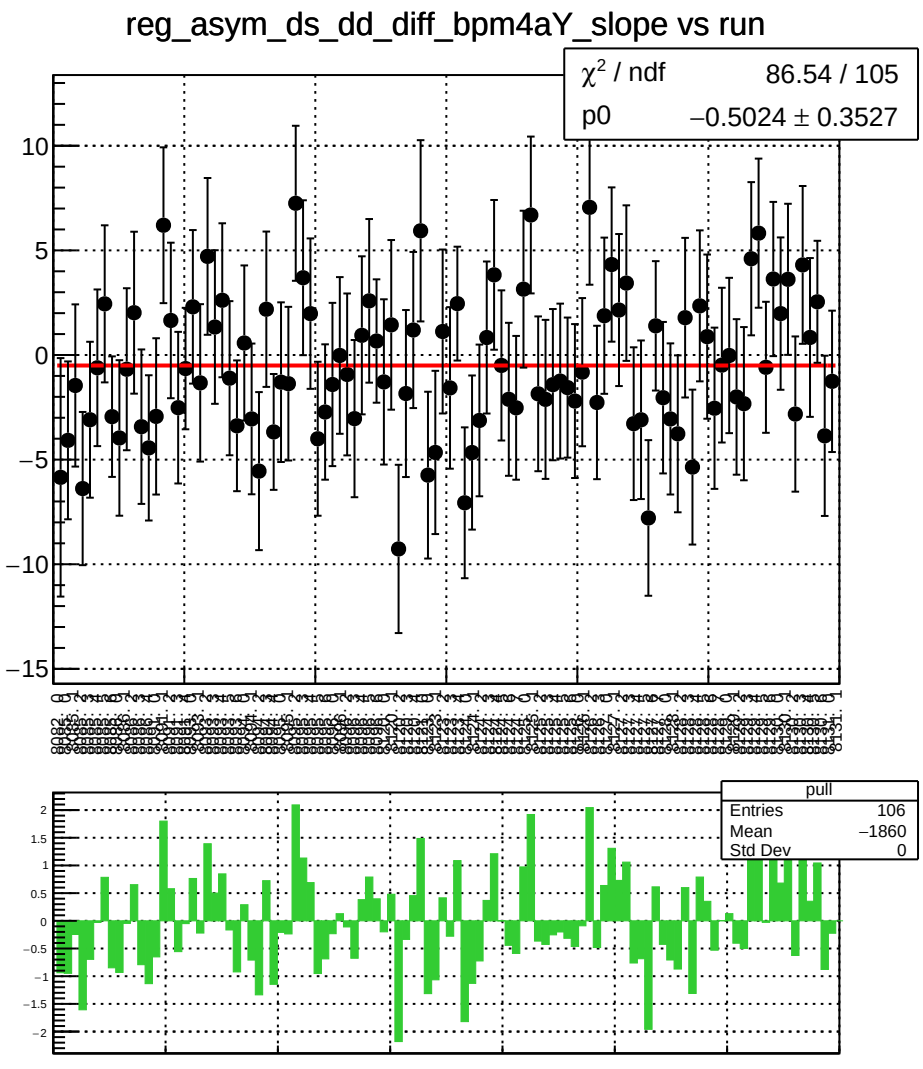

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 110.8 / 105
p0 −1.685 ± 0.3766
pull
Entries 106
Mean −1049
Std Dev 0
pull1D
Entries 106
Mean −0.002104
Std Dev 1.022

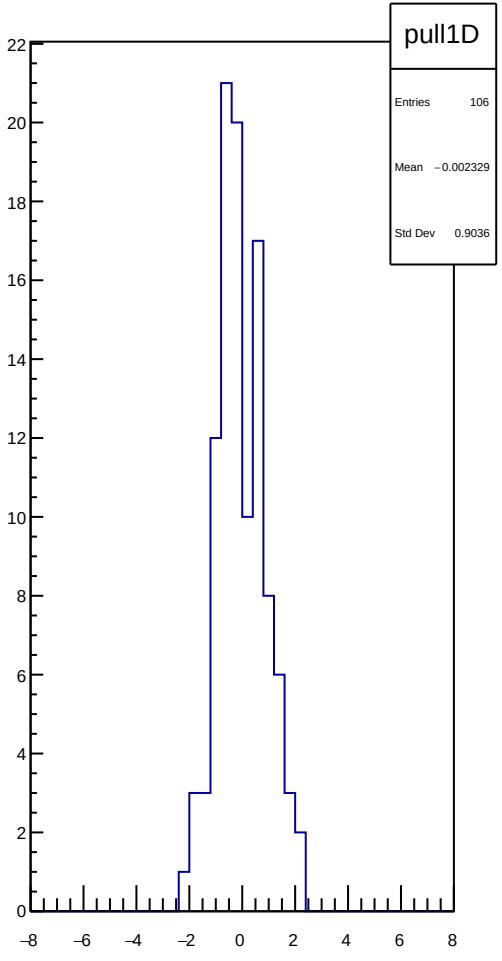

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 195.6 / 105
p0 −0.01007 ± 0.01438
pull
Entries 106
Mean 12.59
Std Dev 101.8

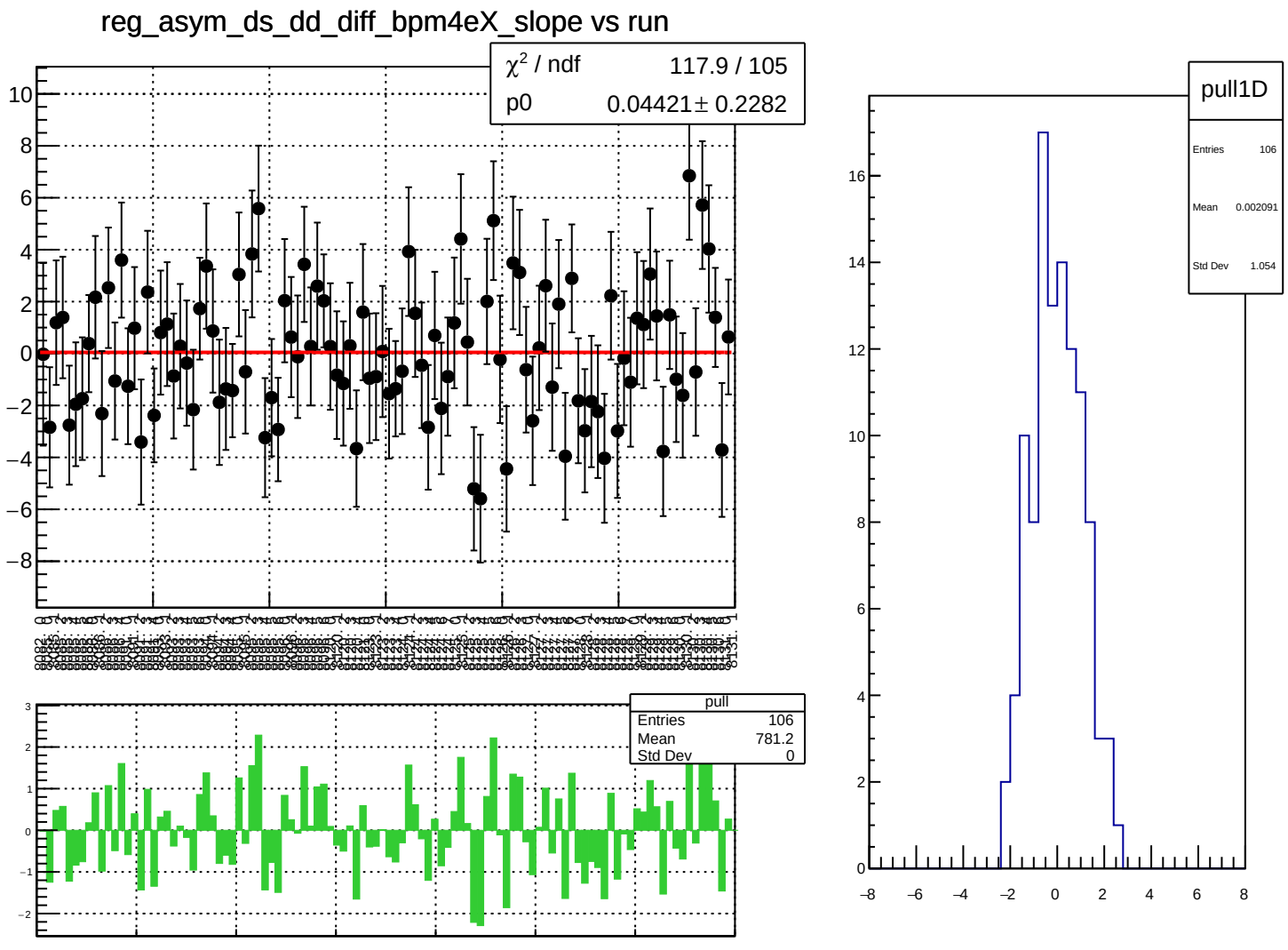

pull1D
Entries 106
Mean −0.005487
Std Dev 1.358

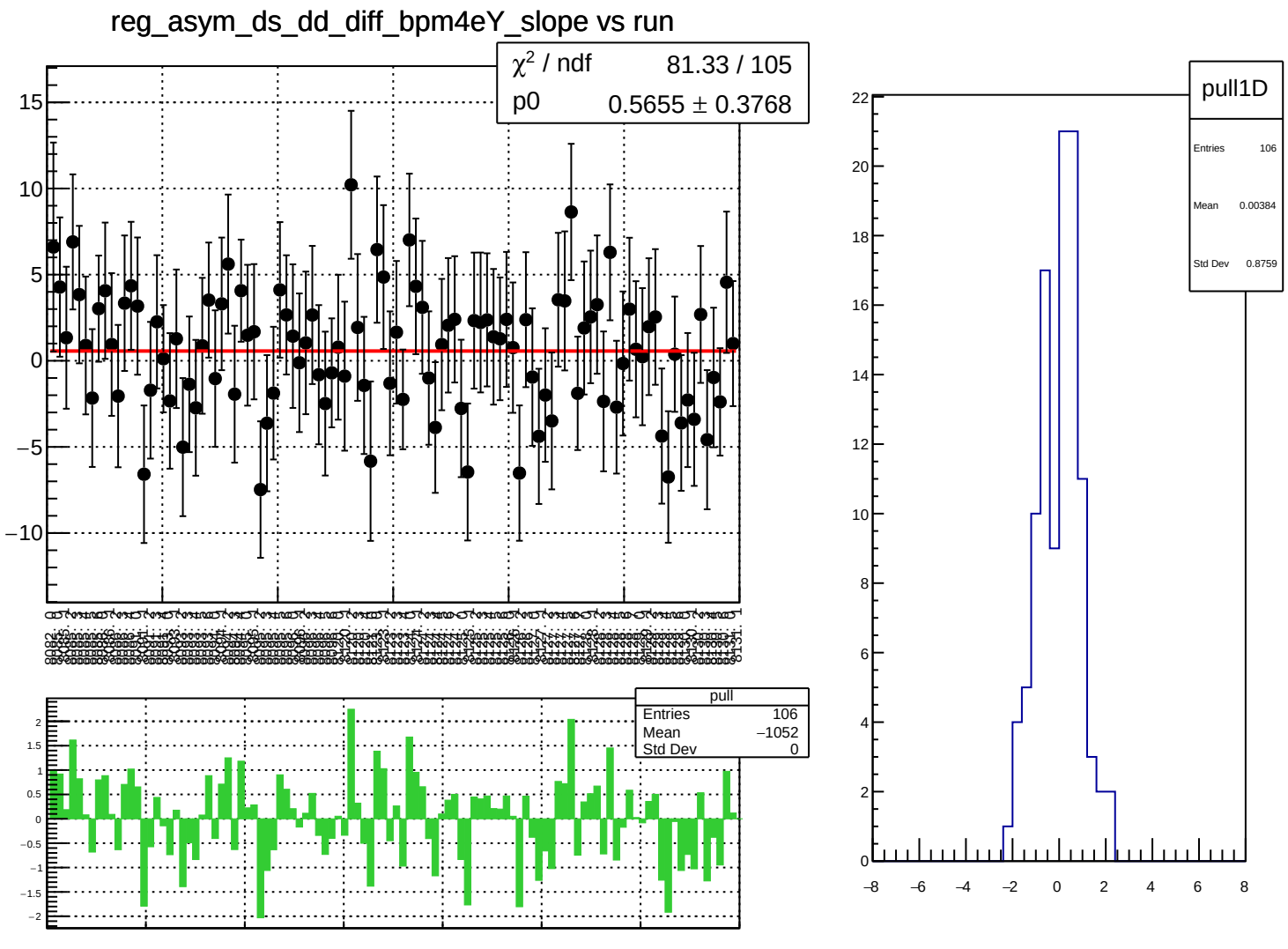

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 113.3 / 105
p0 −0.01958 ± 0.2401
pull
Entries 106
Mean 455.8
Std Dev 0

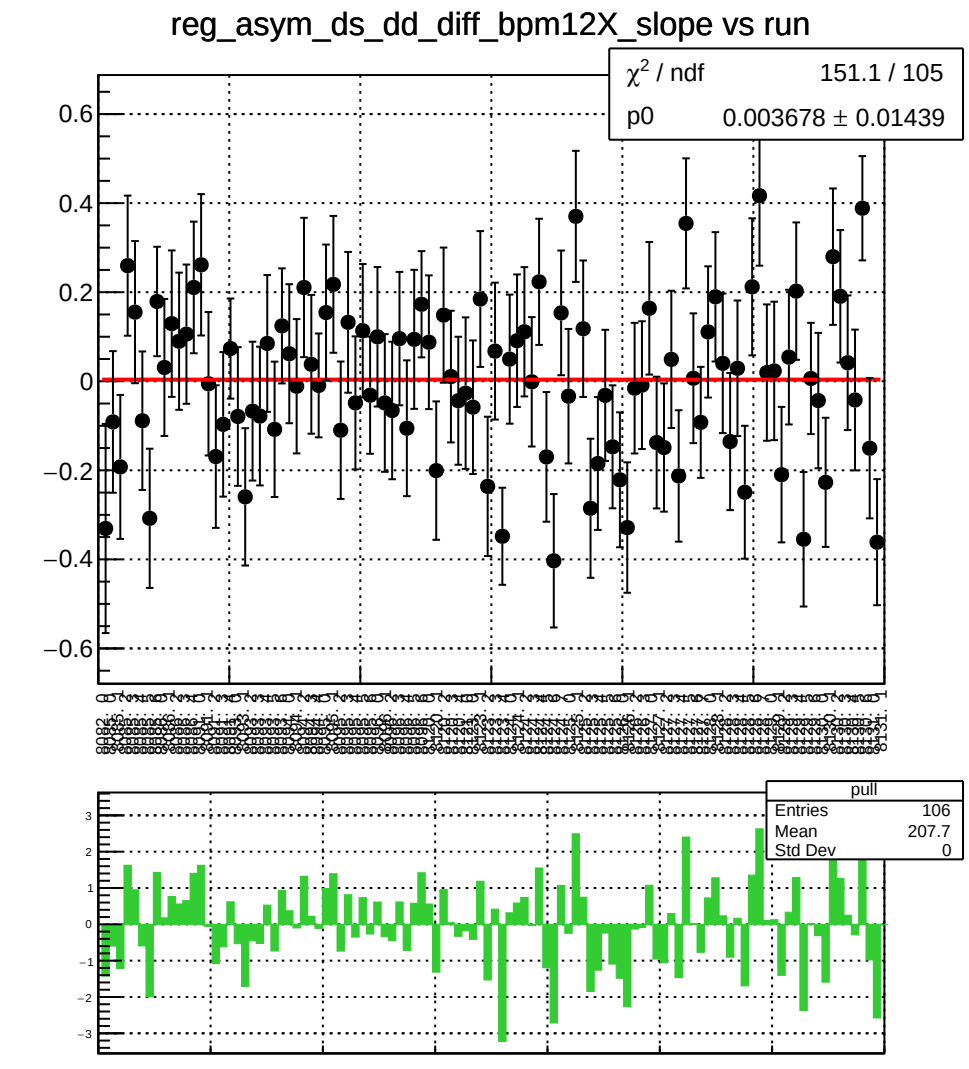

pull1D
Entries 106
Mean −0.004054
Std Dev 1.034

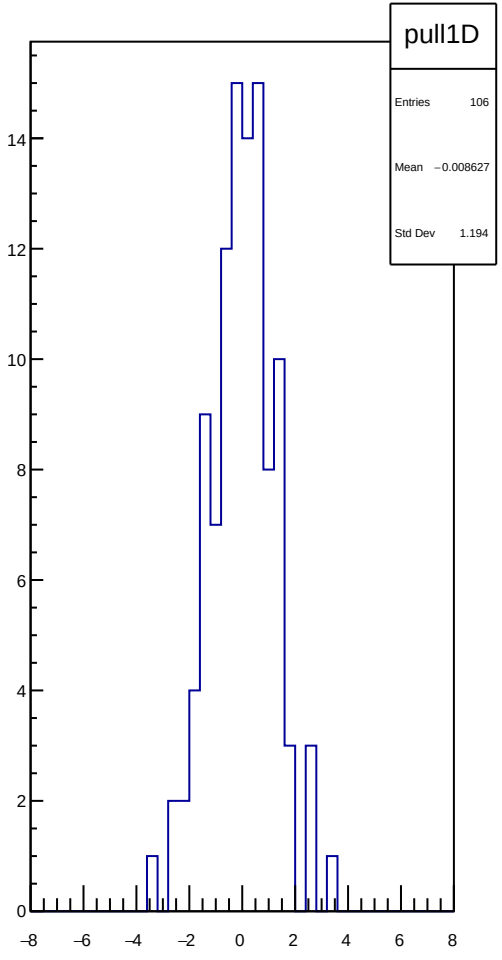

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 86.54 / 105
p0 −0.5024 ± 0.3527
pull
Entries 106
Mean −1860
Std Dev 0

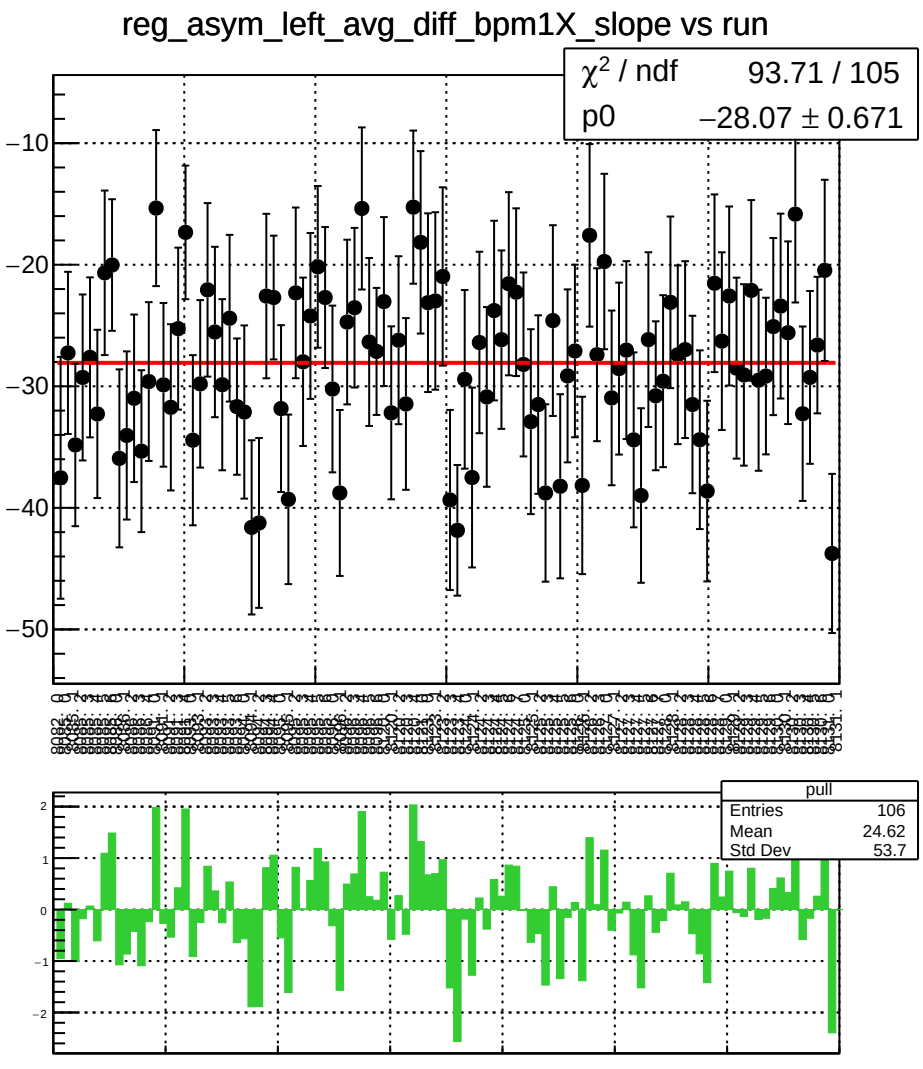

pull1D
Entries 106
Mean −0.002329
Std Dev 0.9036

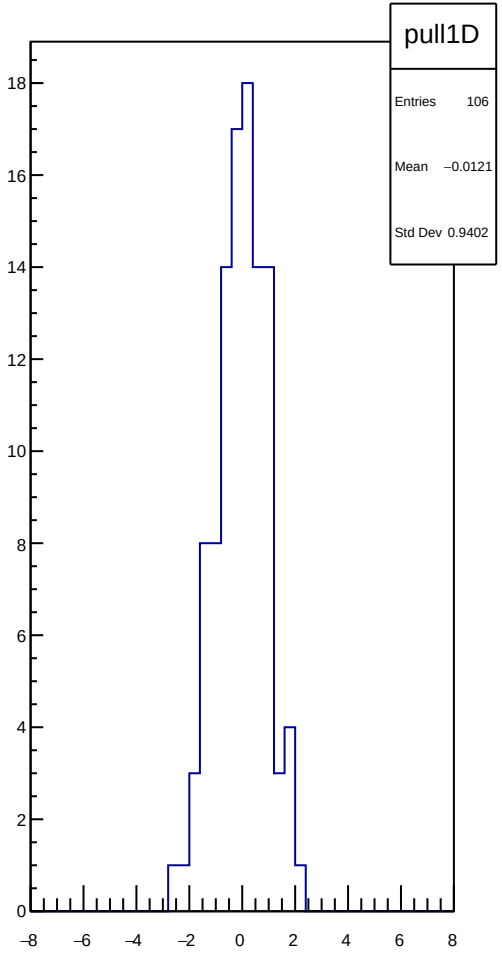

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 117.9 / 105
p0 0.04421 ± 0.2282
pull
Entries 106
Mean 781.2
Std Dev 0
pull1D
Entries 106
Mean 0.002091
Std Dev 1.054

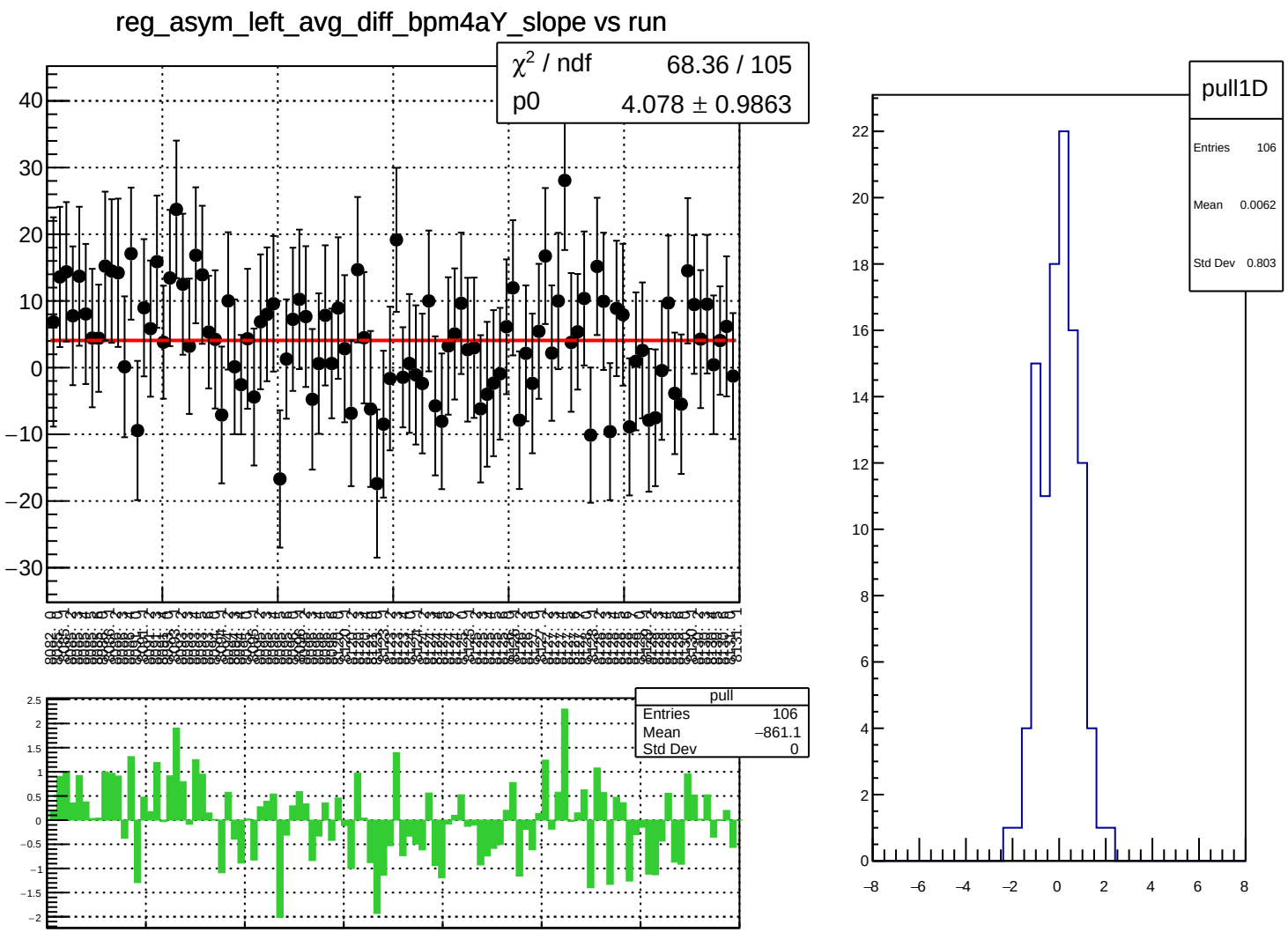

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 81.33 / 105
p0 0.5655 ± 0.3768
pull
Entries 106
Mean −1052
Std Dev 0
pull1D
Entries 106
Mean 0.00384
Std Dev 0.8759

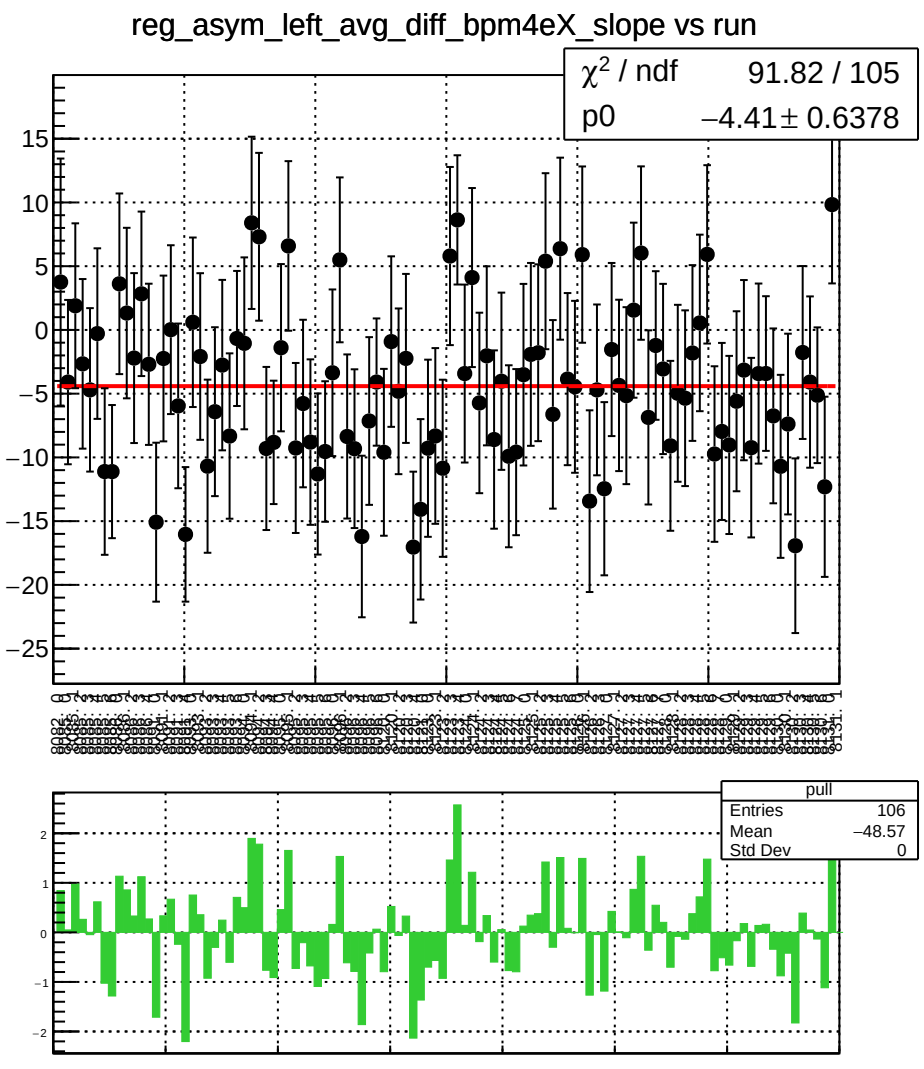

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 151.1 / 105
p0 0.003678 ± 0.01439
pull
Entries 106
Mean 207.7
Std Dev 0

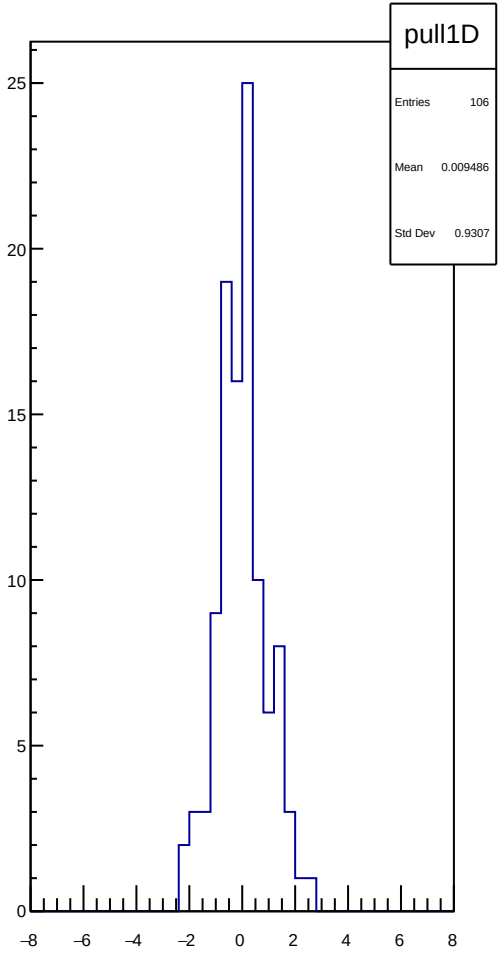

pull1D
Entries 106
Mean −0.008627
Std Dev 1.194

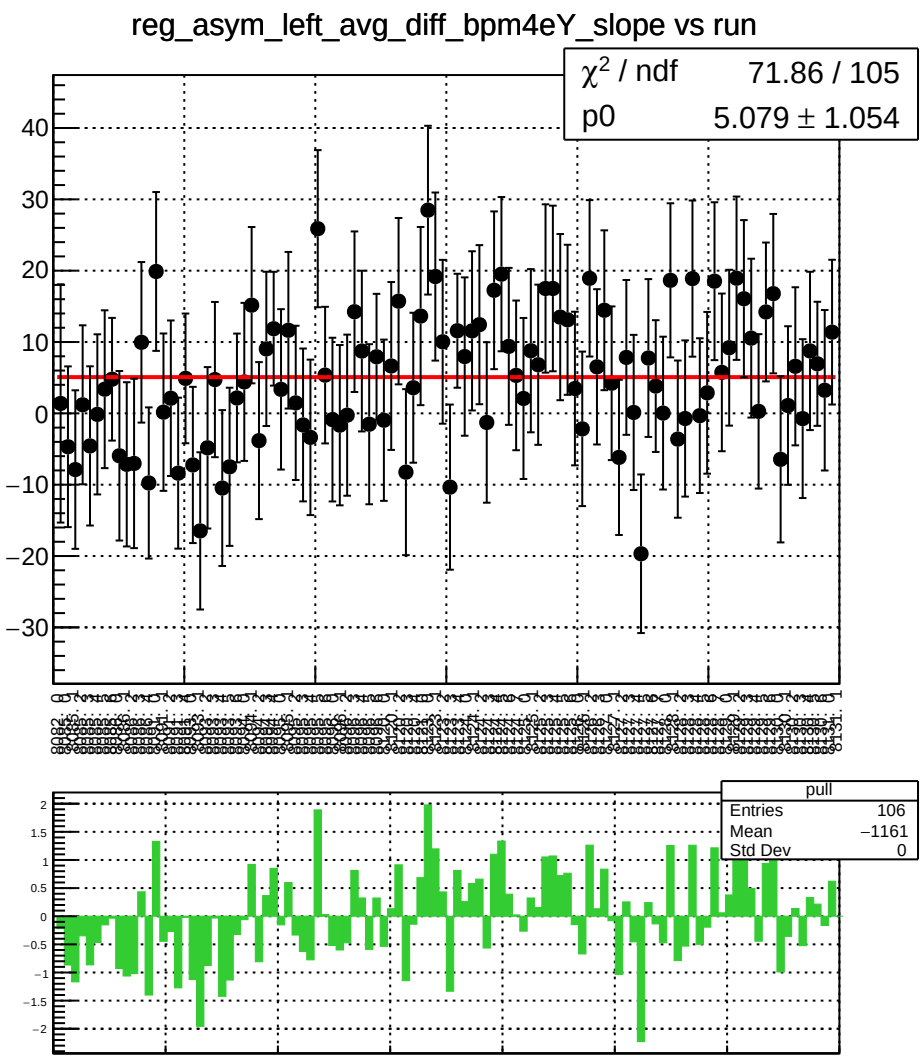

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 93.71 / 105
p0 −28.07 ± 0.671
−10
−20
−30
−40
−50
pull
Entries 106
Mean 24.62
Std Dev 53.7
2
1
0
−1
−2

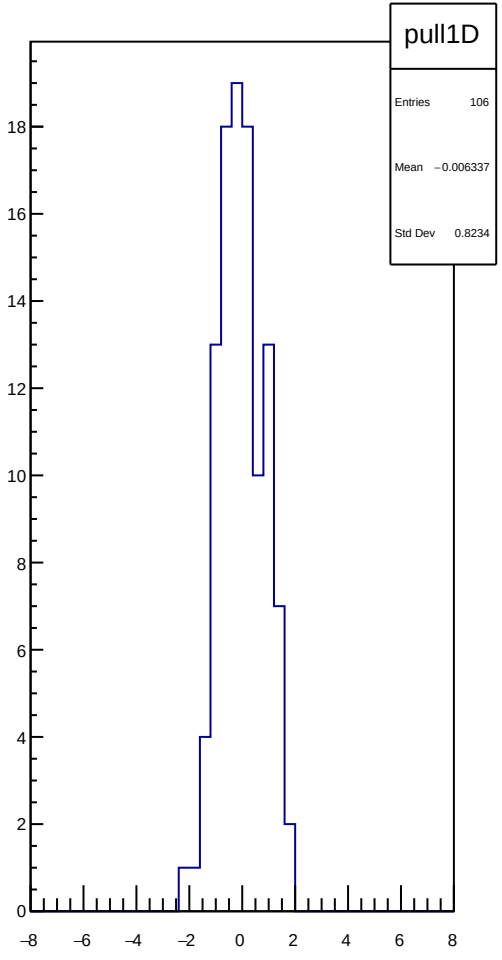

pull1D
Entries 106
Mean −0.0121
Std Dev 0.9402
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

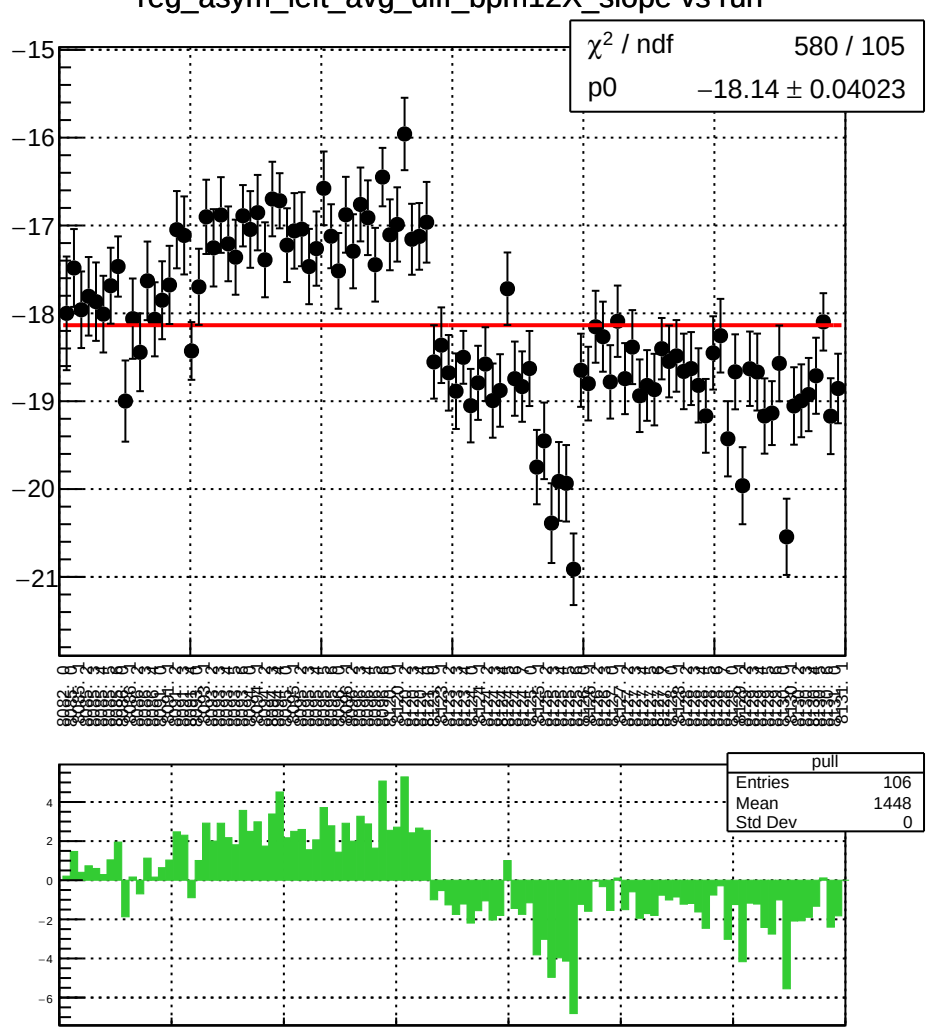

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 68.36 / 105
p0 4.078 ± 0.9863
pull
Entries 106
Mean −861.1
Std Dev 0
pull1D
Entries 106
Mean 0.0062
Std Dev 0.803

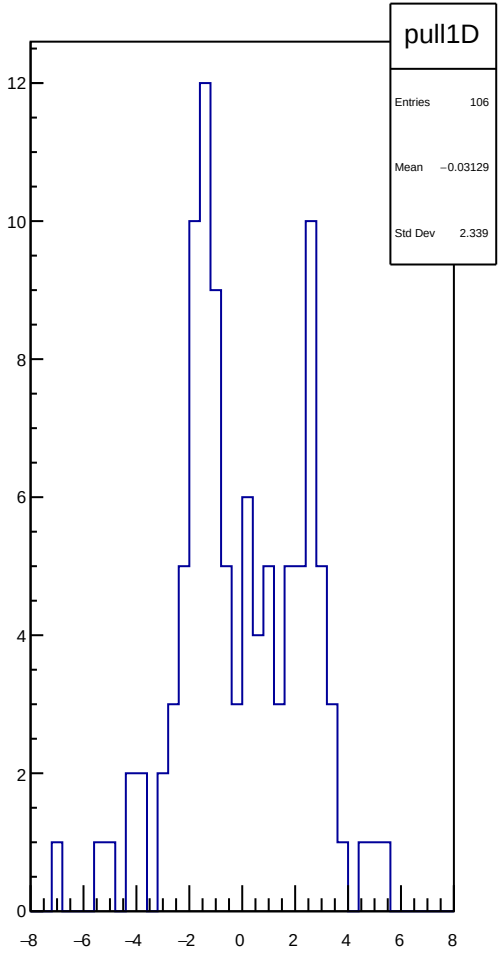

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 91.82 / 105
p0 −4.41 ± 0.6378
pull
Entries 106
Mean −48.57
Std Dev 0

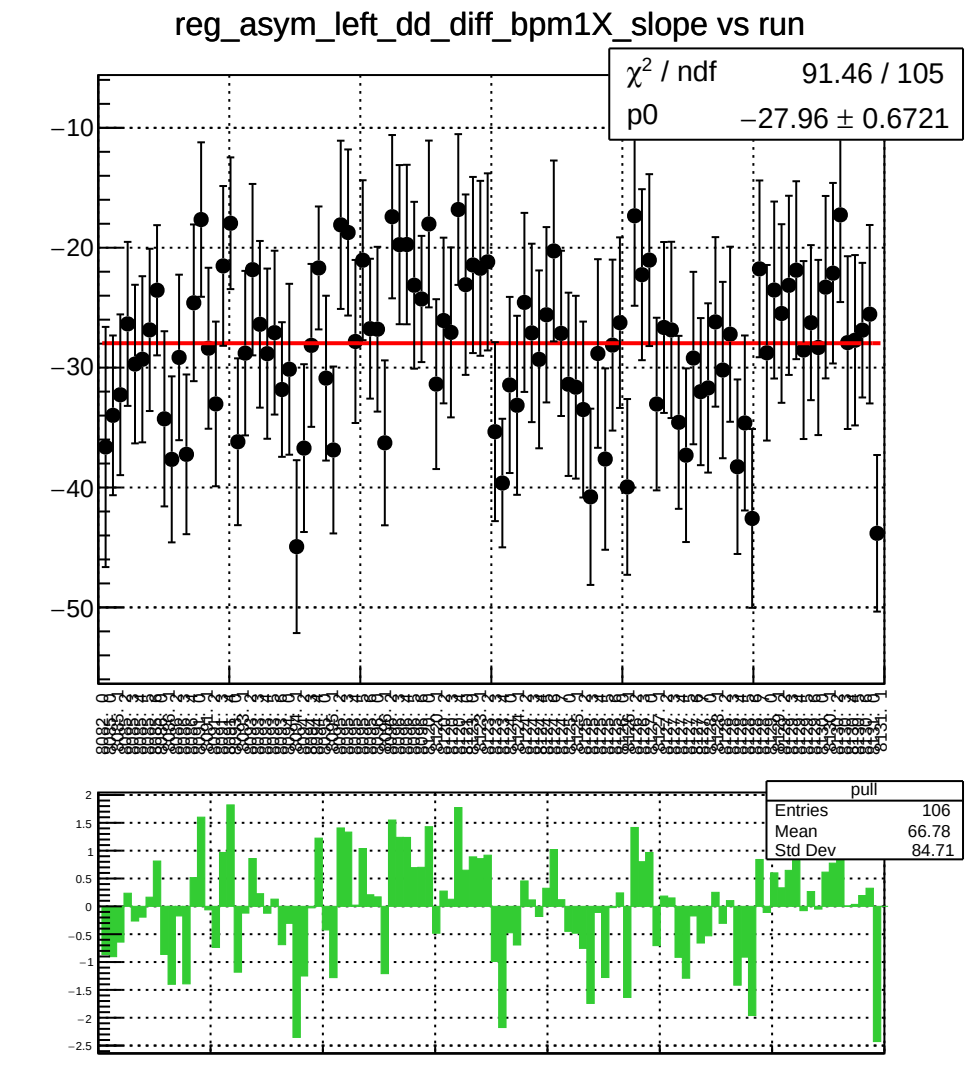

pull1D
Entries 106
Mean 0.009486
Std Dev 0.9307

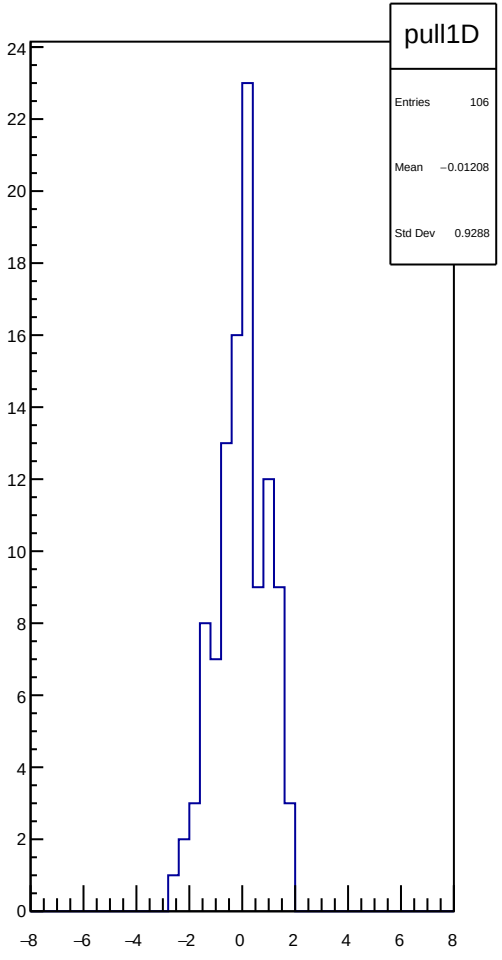

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 71.86 / 105
p0 5.079 ± 1.054
pull
Entries 106
Mean −1161
Std Dev 0

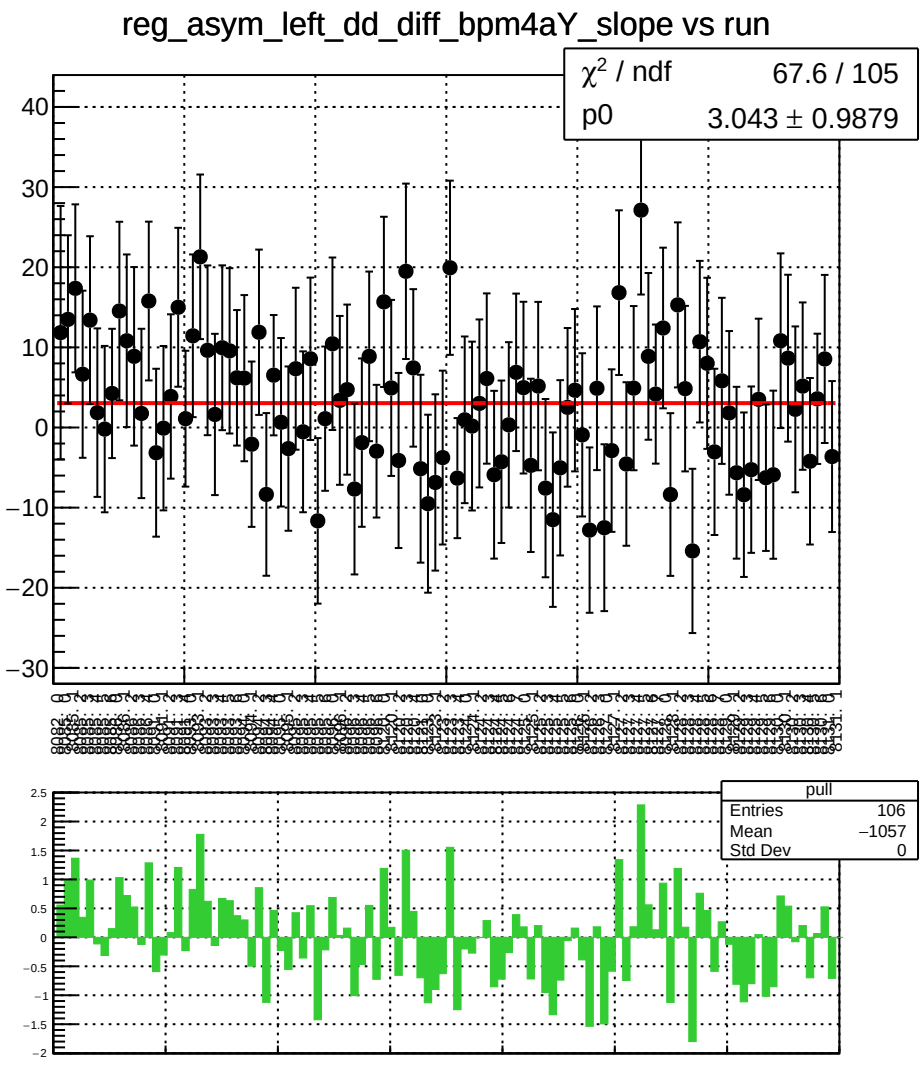

pull1D
Entries 106
Mean −0.006337
Std Dev 0.8234

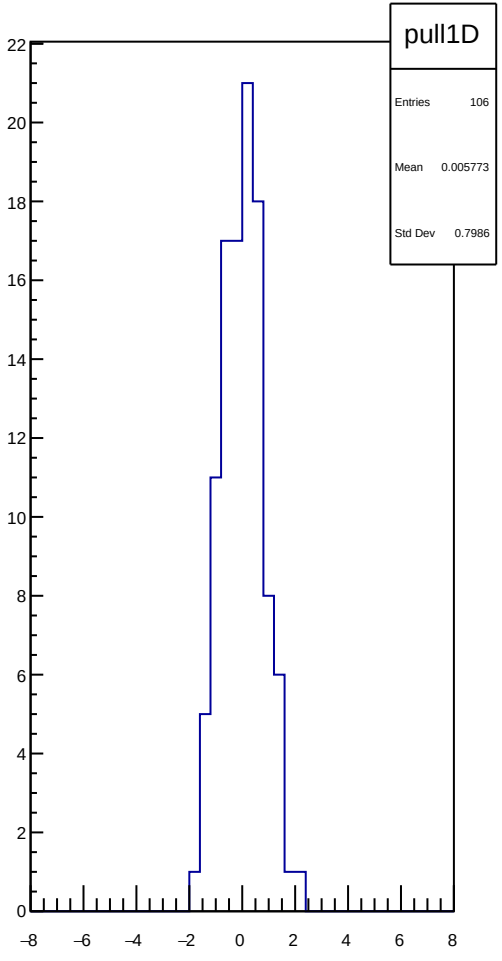

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 580 / 105
p0 −18.14 ± 0.04023
pull
Entries 106
Mean 1448
Std Dev 0

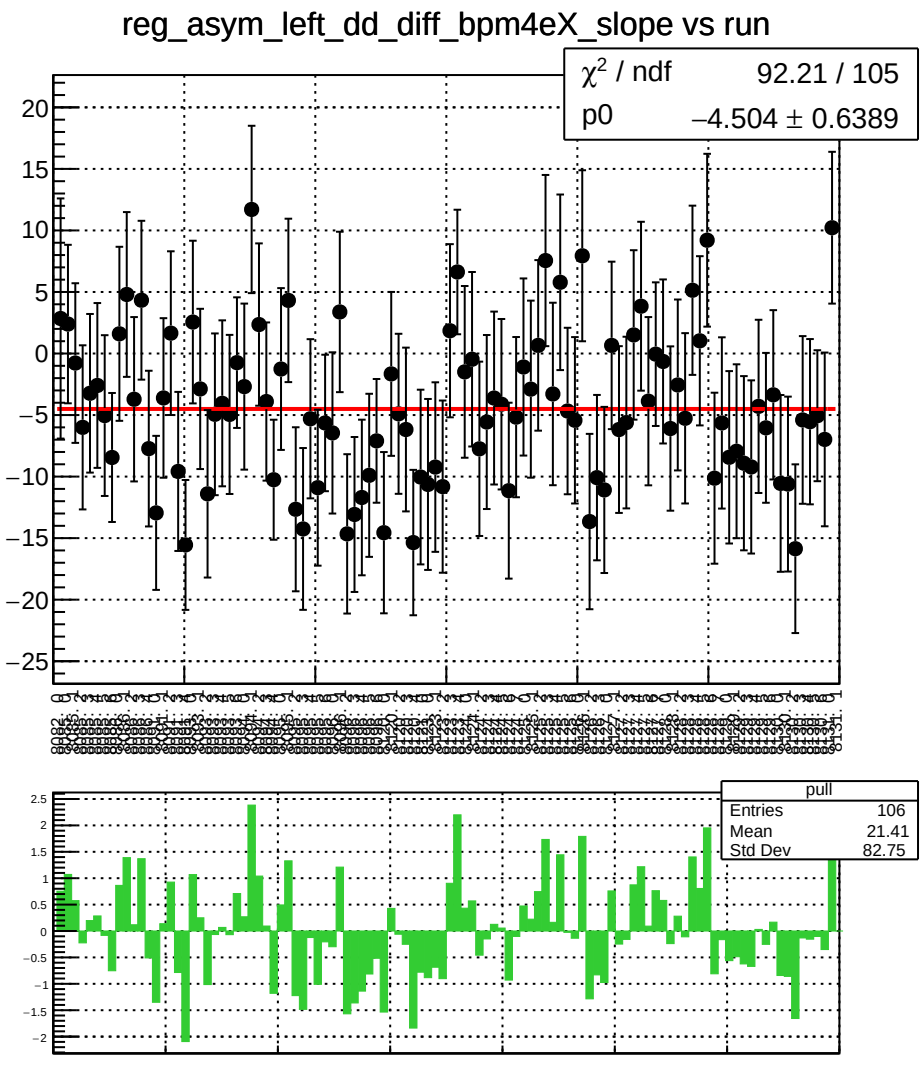

pull1D
Entries 106
Mean −0.03129
Std Dev 2.339

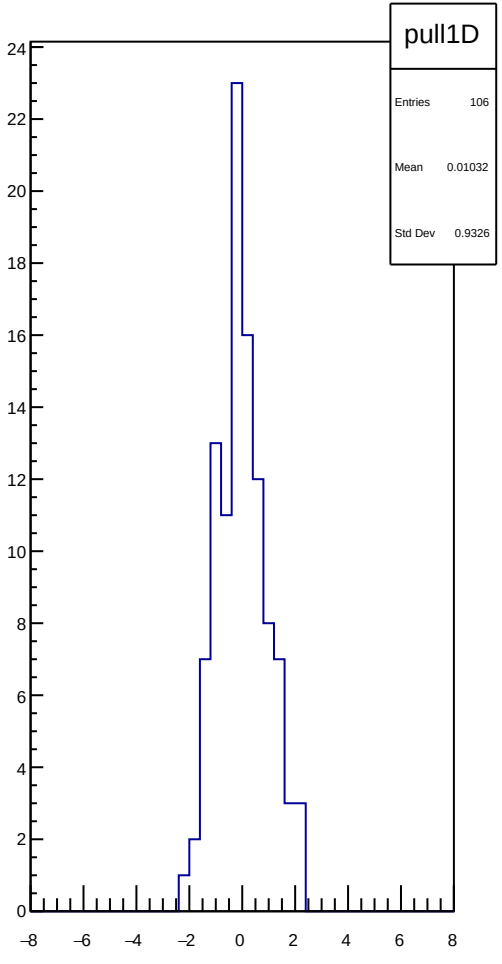

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 91.46 / 105
p0 −27.96 ± 0.6721
pull
Entries 106
Mean 66.78
Std Dev 84.71

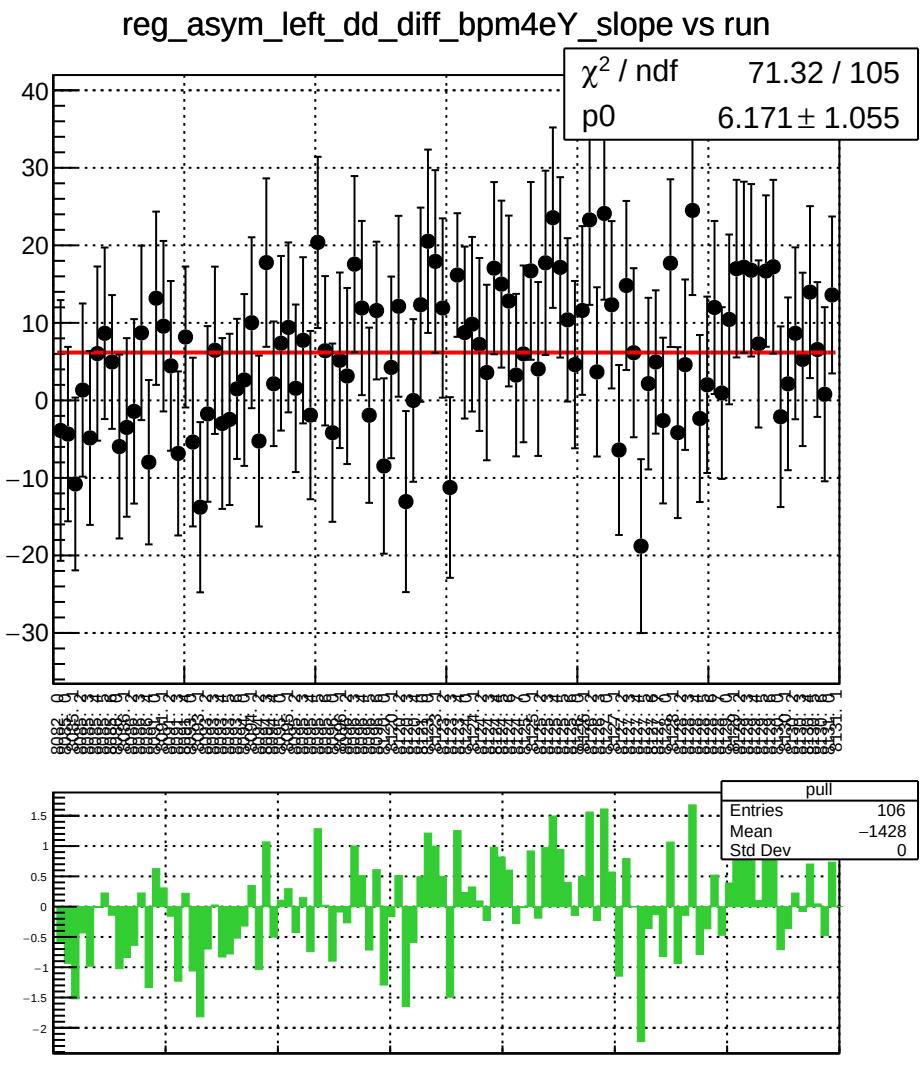

pull1D
Entries 106
Mean −0.01208
Std Dev 0.9288

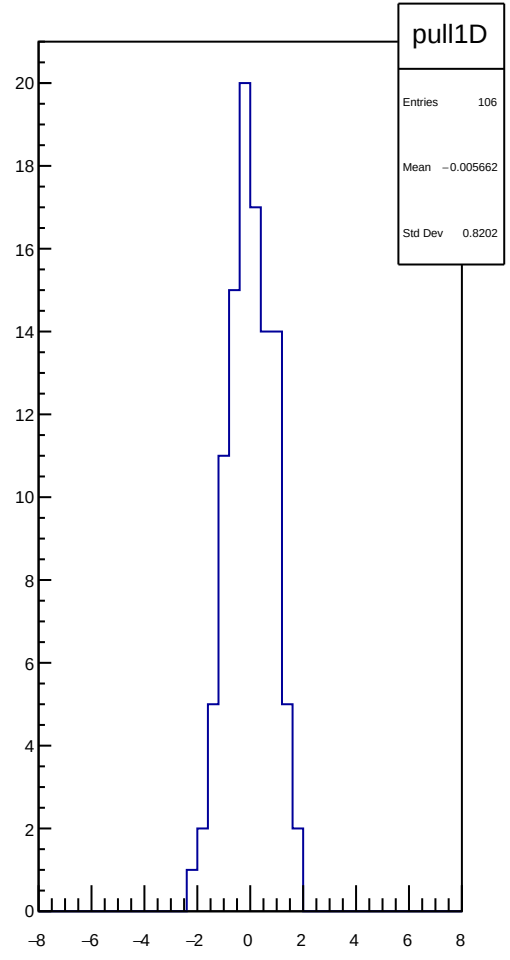

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 67.6 / 105
p0 3.043 ± 0.9879
pull
Entries 106
Mean −1057
Std Dev 0

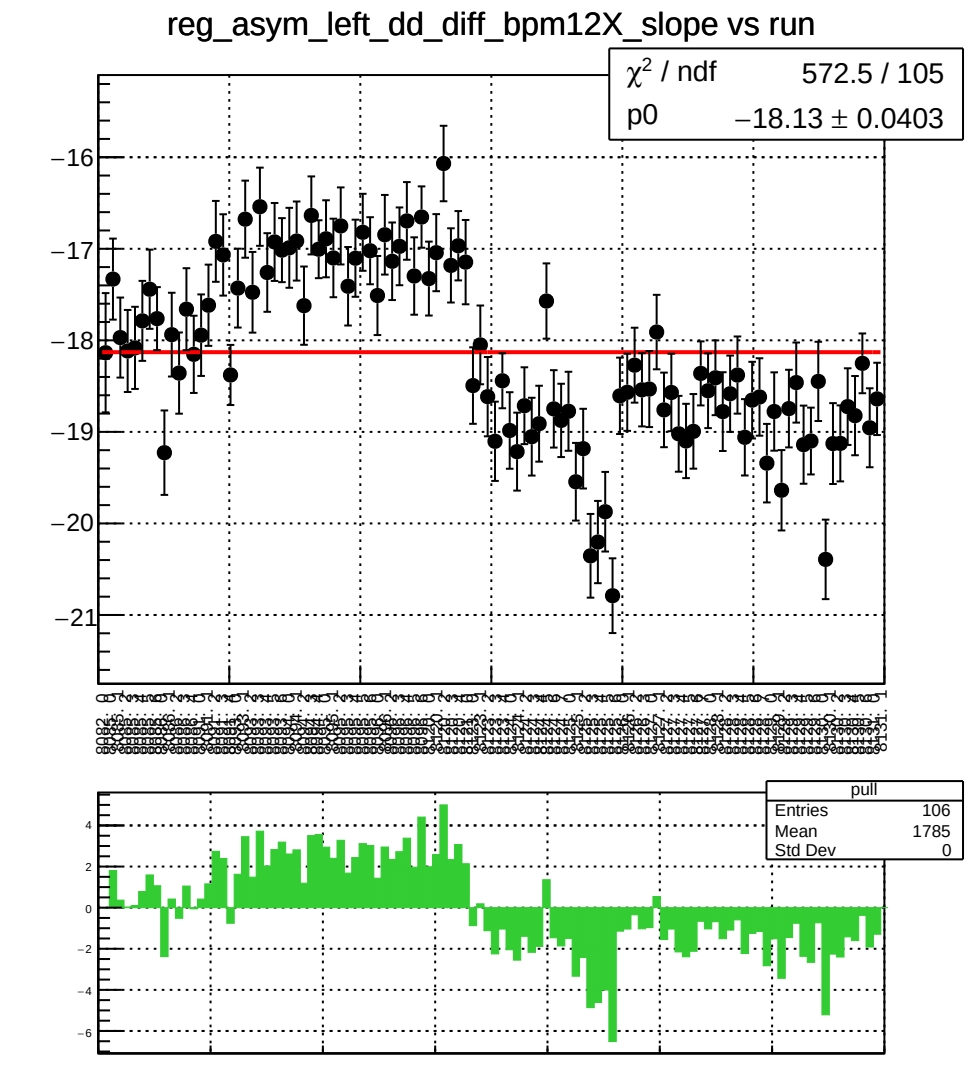

pull1D
Entries 106
Mean 0.005773
Std Dev 0.7986

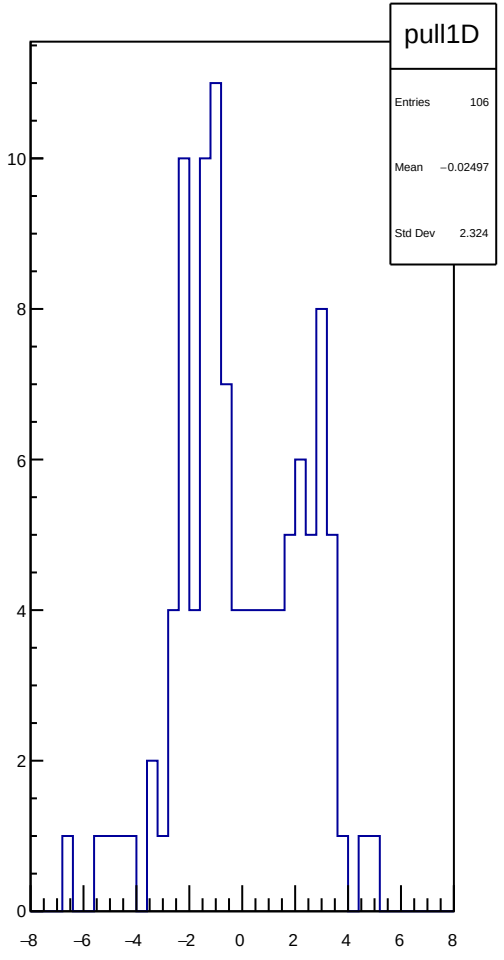

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 92.21 / 105
p0 −4.504 ± 0.6389
pull
Entries 106
Mean 21.41
Std Dev 82.75

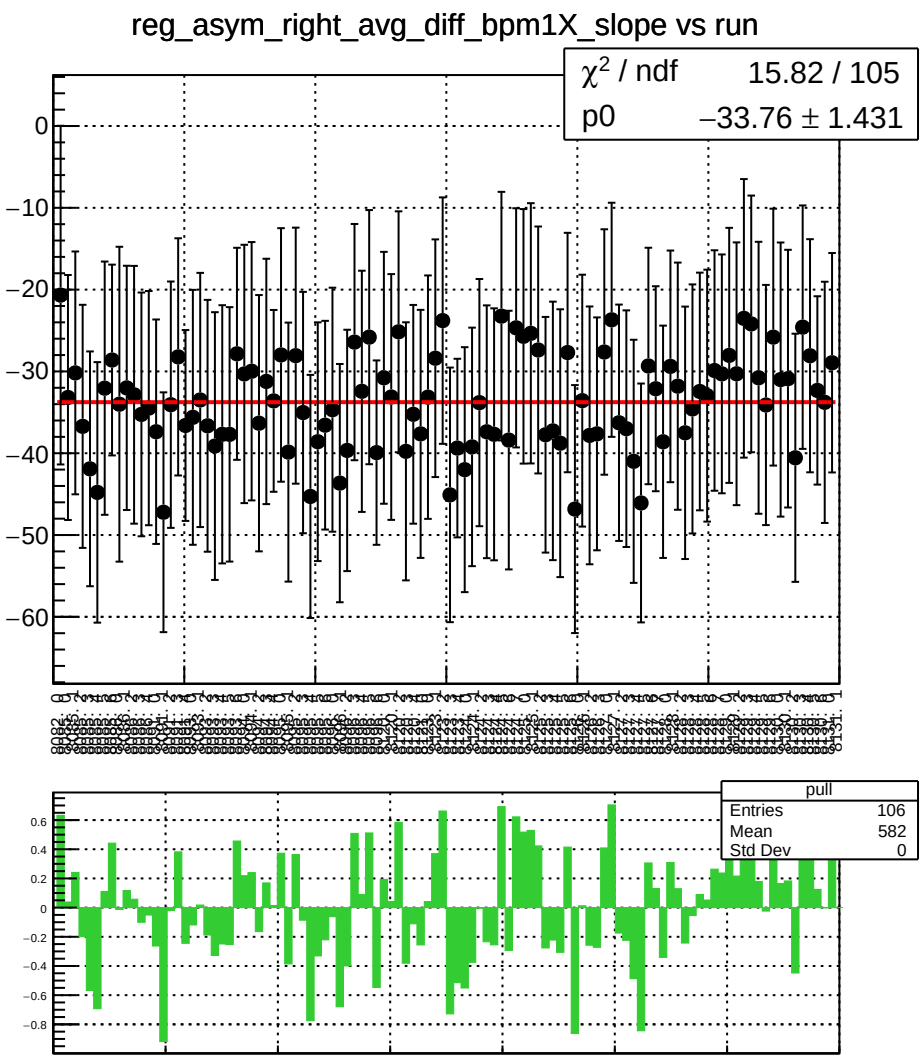

pull1D
Entries 106
Mean 0.01032
Std Dev 0.9326

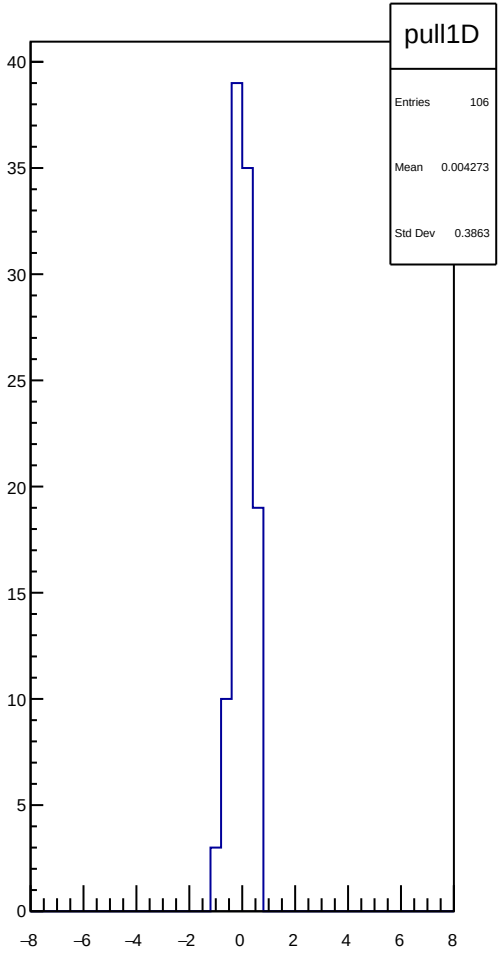

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 71.32 / 105
p0 6.171 ± 1.055
pull
Entries 106
Mean −1428
Std Dev 0

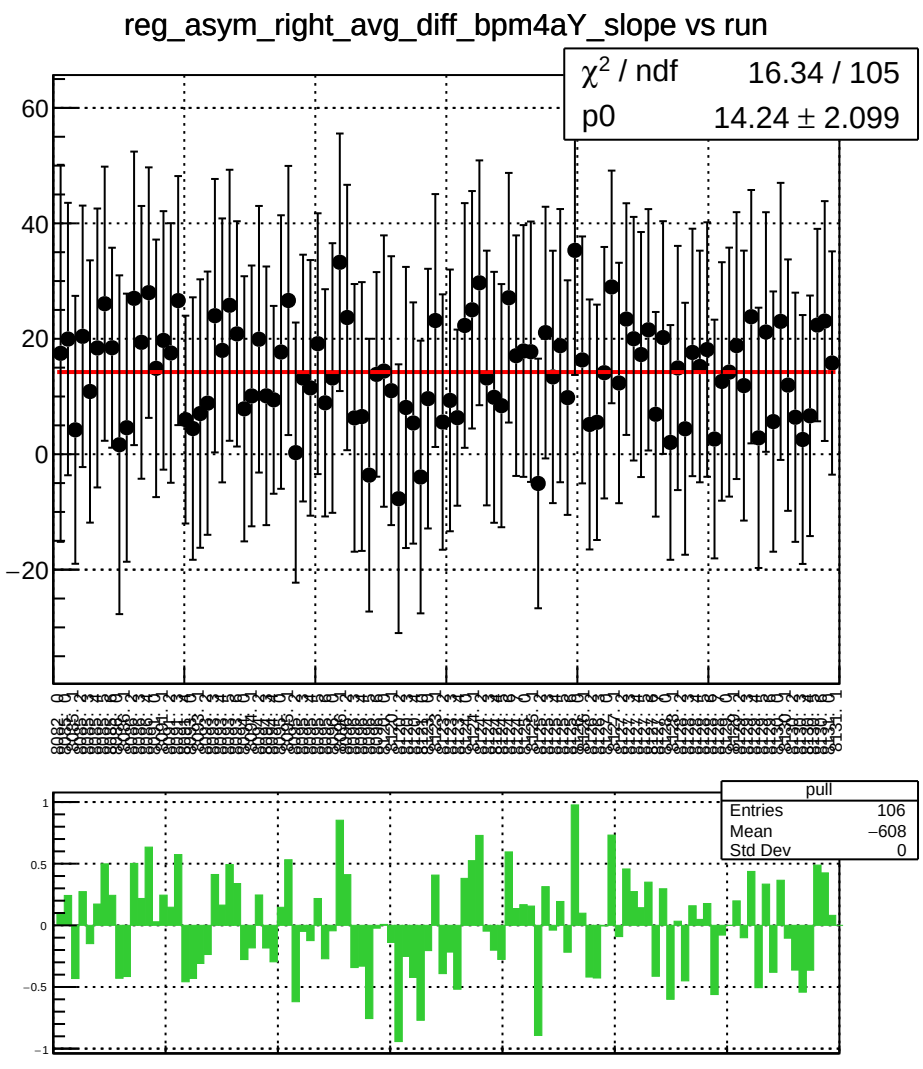

pull1D
Entries 106
Mean −0.005662
Std Dev 0.8202

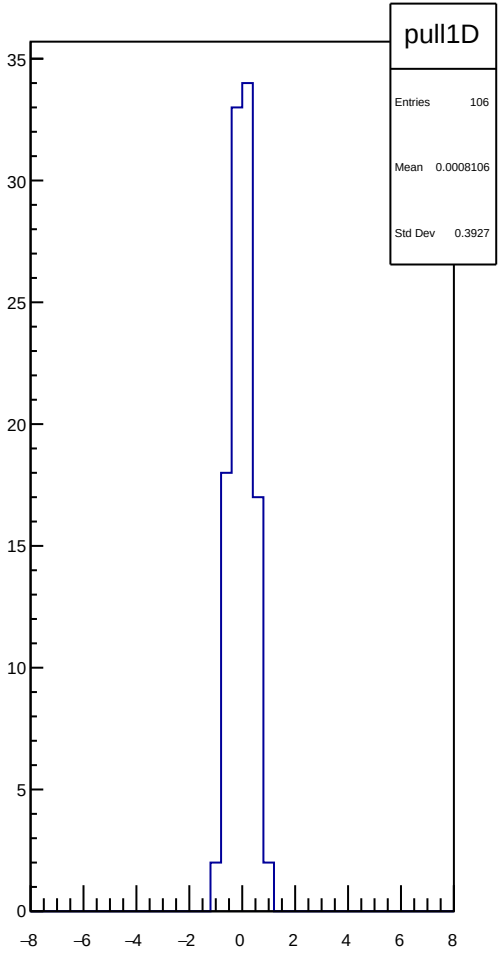

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 572.5 / 105
p0 −18.13 ± 0.0403
pull
Entries 106
Mean 1785
Std Dev 0

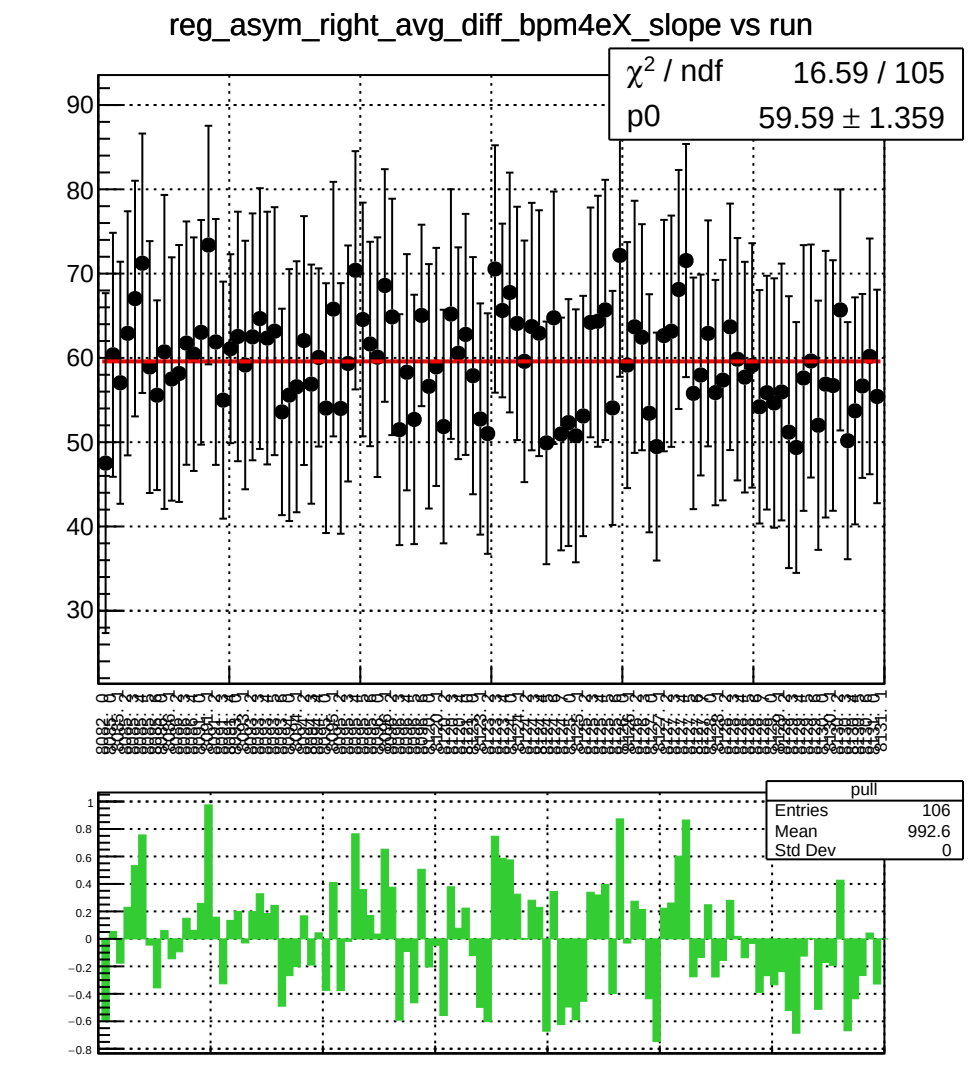

pull1D
Entries 106
Mean −0.02497
Std Dev 2.324

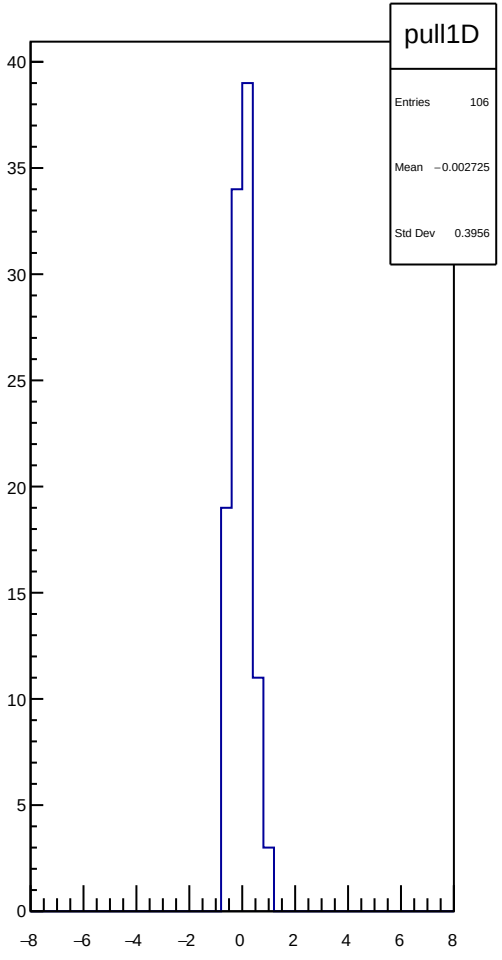

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 15.82 / 105
p0 −33.76 ± 1.431
pull
Entries 106
Mean 582
Std Dev 0

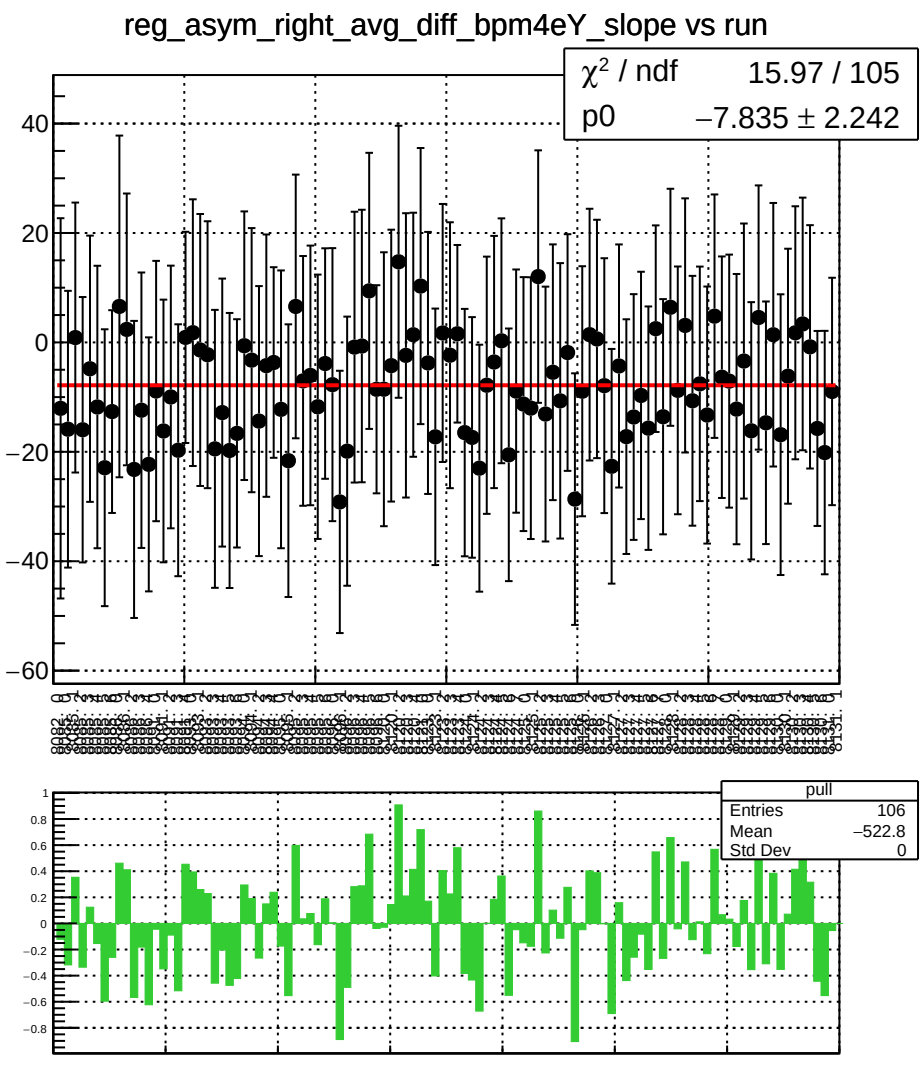

pull1D
Entries 106
Mean 0.004273
Std Dev 0.3863

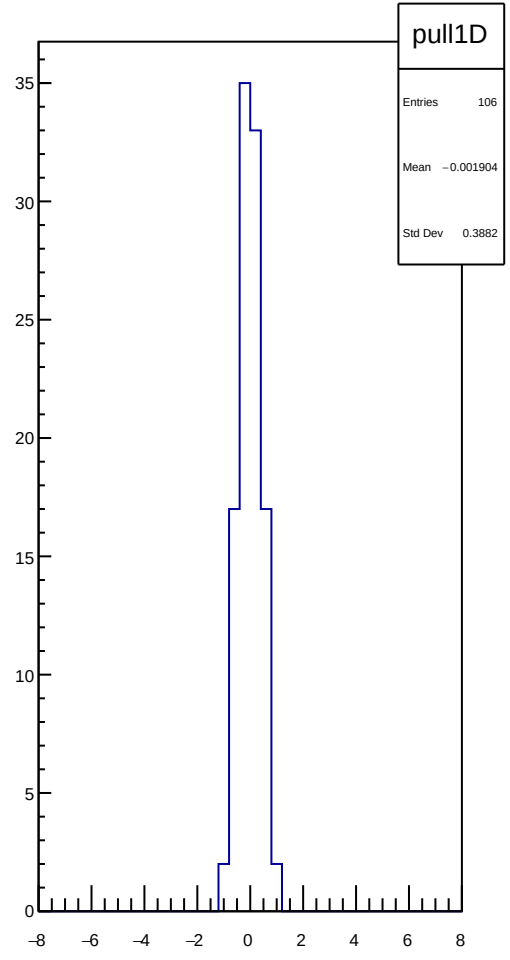

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 16.34 / 105
p0 14.24 ± 2.099
pull
Entries 106
Mean −608
Std Dev 0

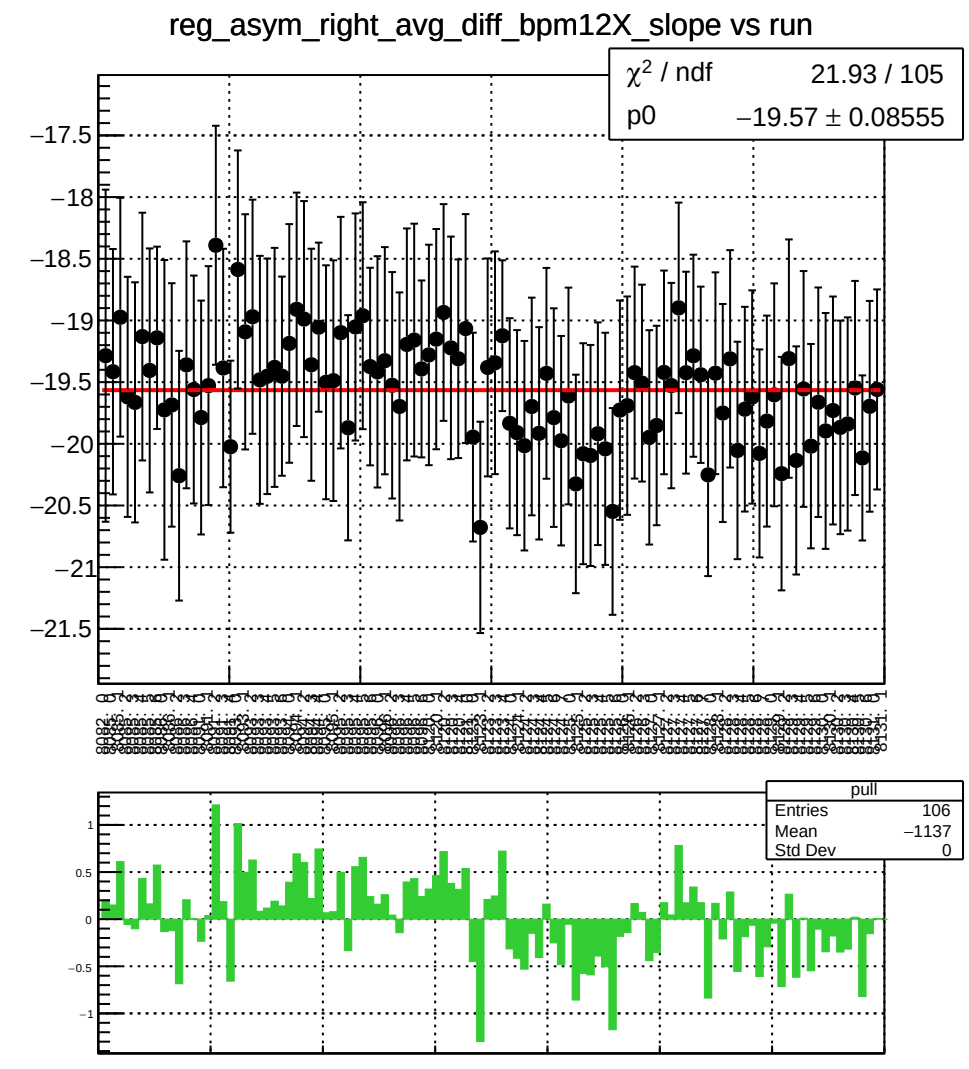

pull1D
Entries 106
Mean 0.0008106
Std Dev 0.3927

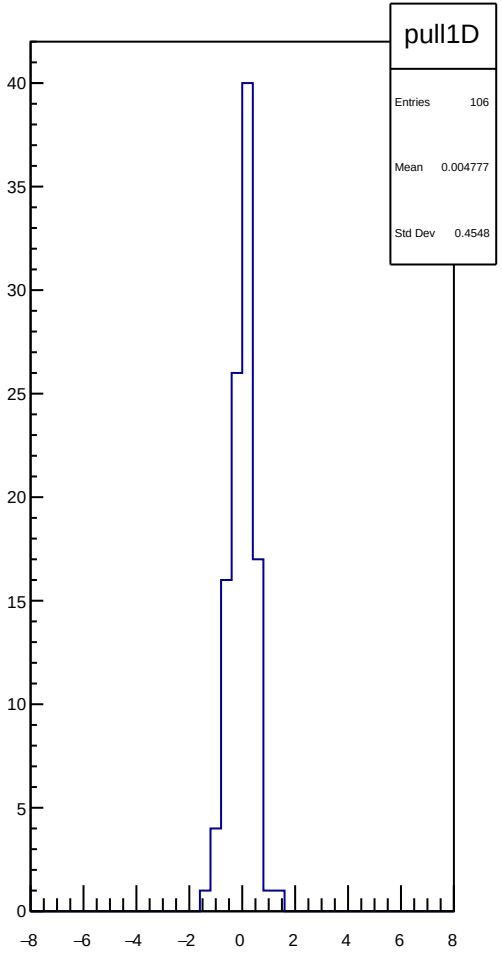

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 16.59 / 105
p0 59.59 ± 1.359
pull
Entries 106
Mean 992.6
Std Dev 0

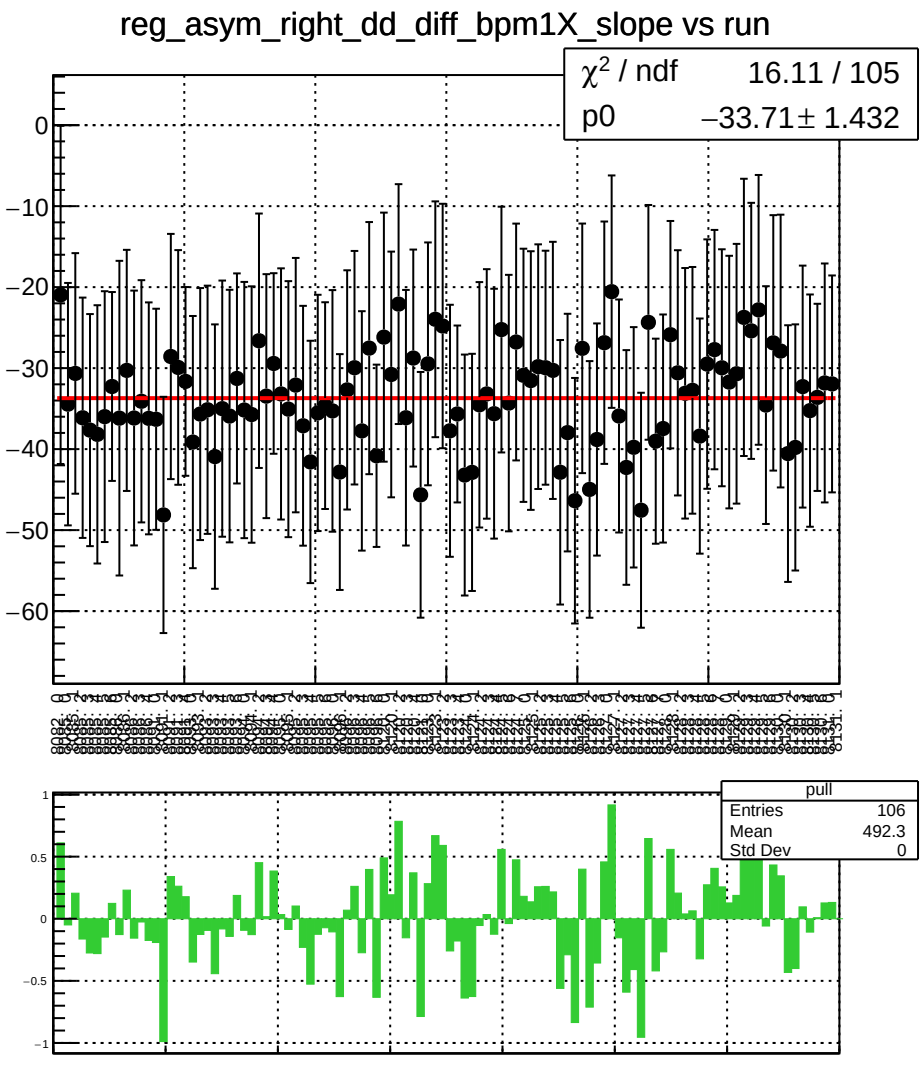

pull1D
Entries 106
Mean −0.002725
Std Dev 0.3956

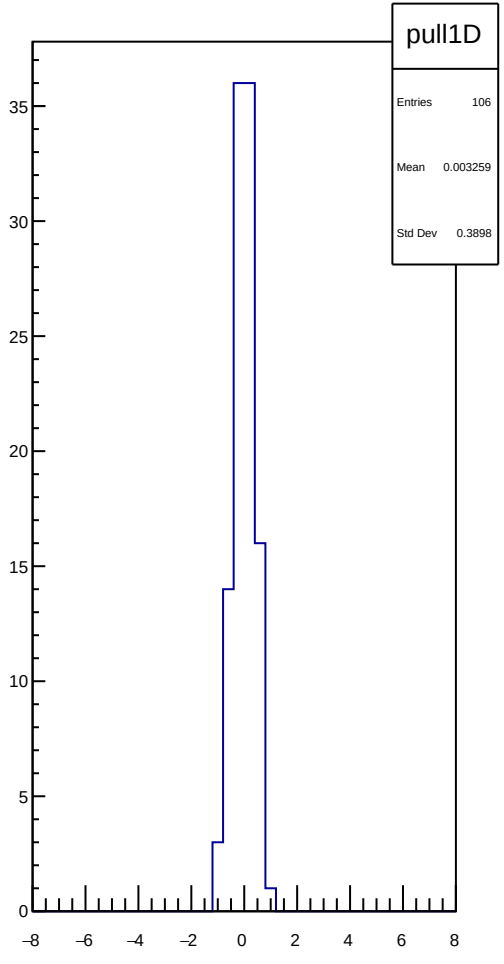

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 15.97 / 105
p0 −7.835 ± 2.242
pull
Entries 106
Mean −522.8
Std Dev 0

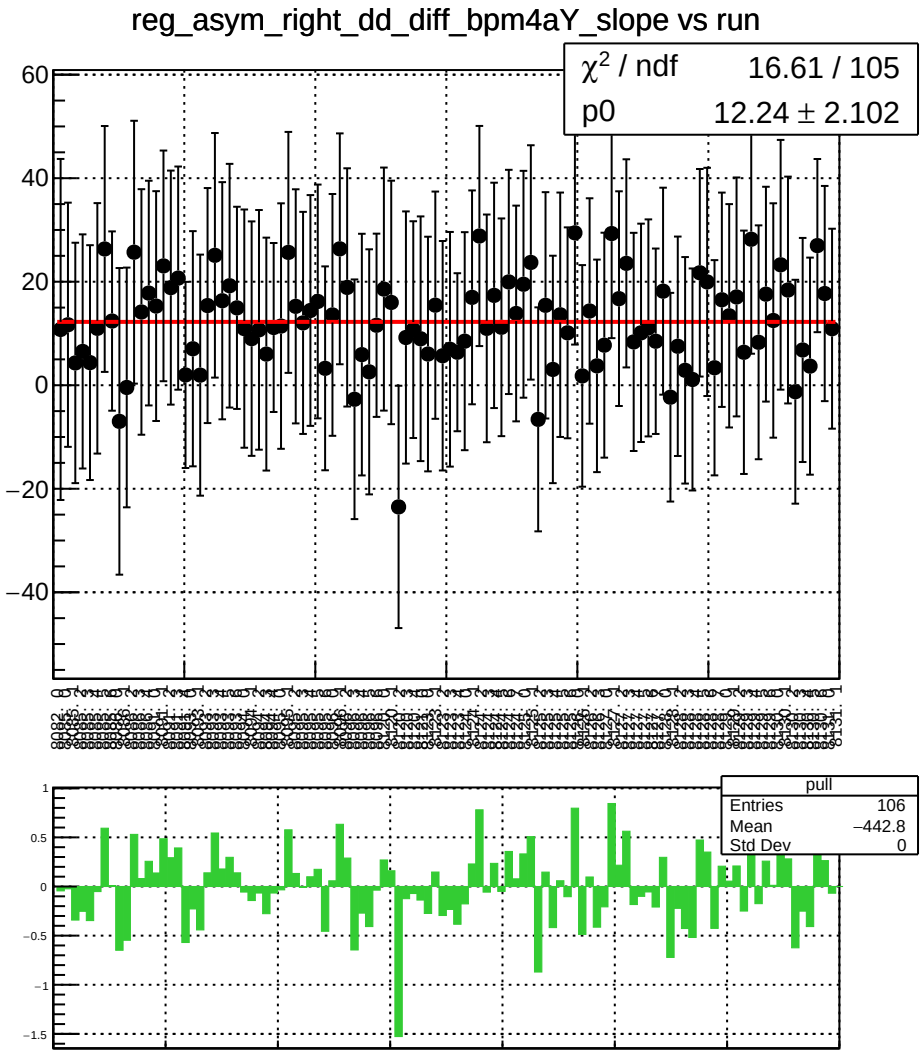

pull1D
Entries 106
Mean −0.001904
Std Dev 0.3882

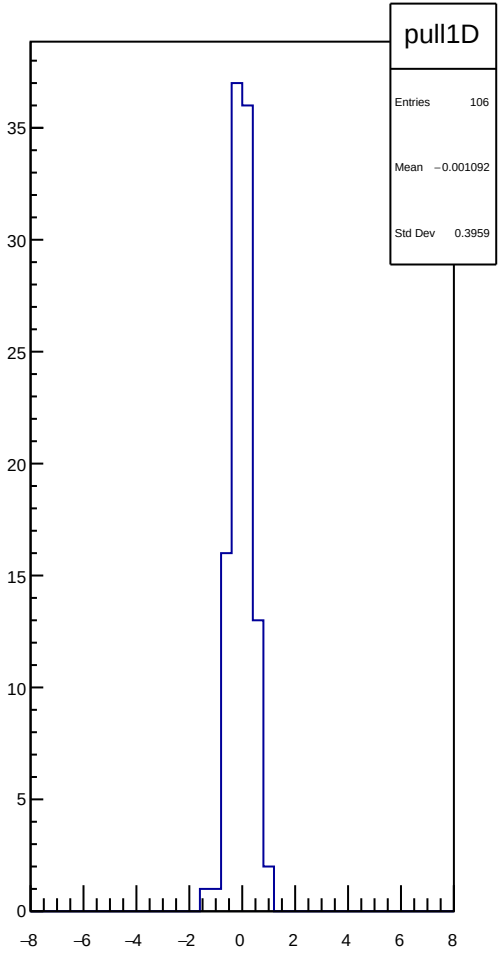

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 21.93 / 105
p0 −19.57 ± 0.08555
−17.5
−18
−18.5
−19
−19.5
−20
−20.5
−21
−21.5
pull
Entries 106
Mean −1137
Std Dev 0
1
0.5
0
−0.5
−1

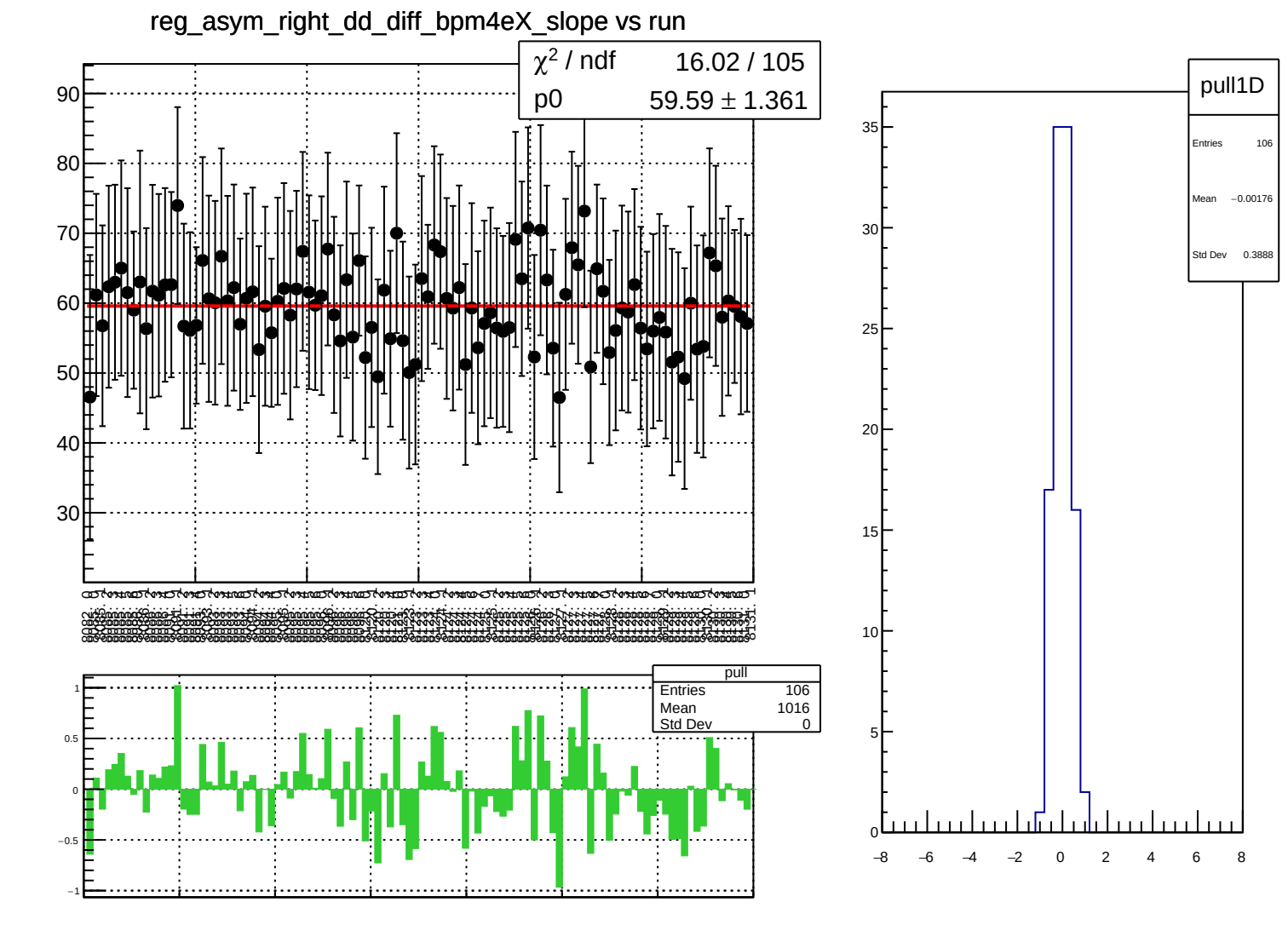

pull1D
Entries 106
Mean 0.004777
Std Dev 0.4548
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

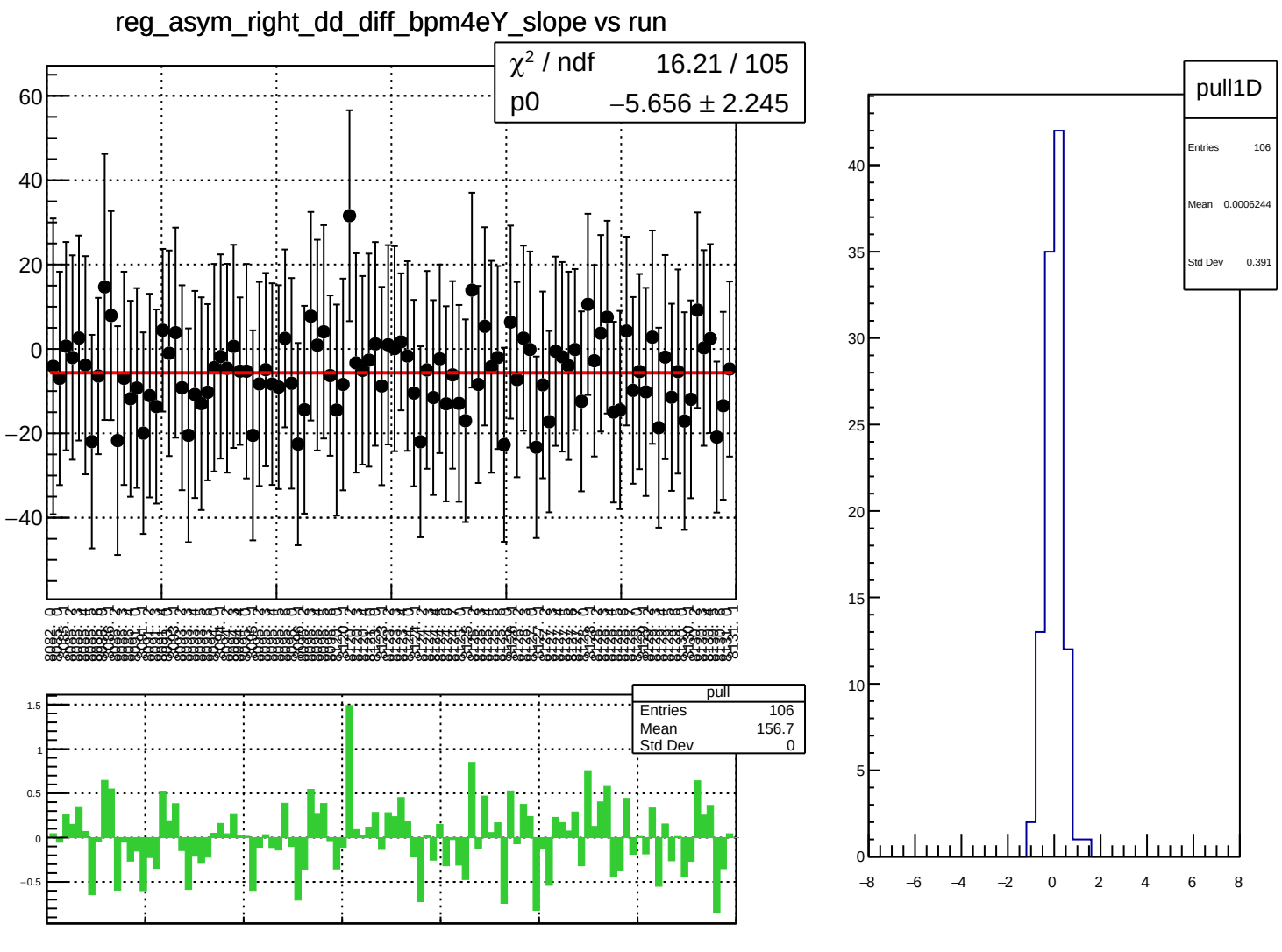

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 16.11 / 105
p0 −33.71± 1.432
pull
Entries 106
Mean 492.3
Std Dev 0

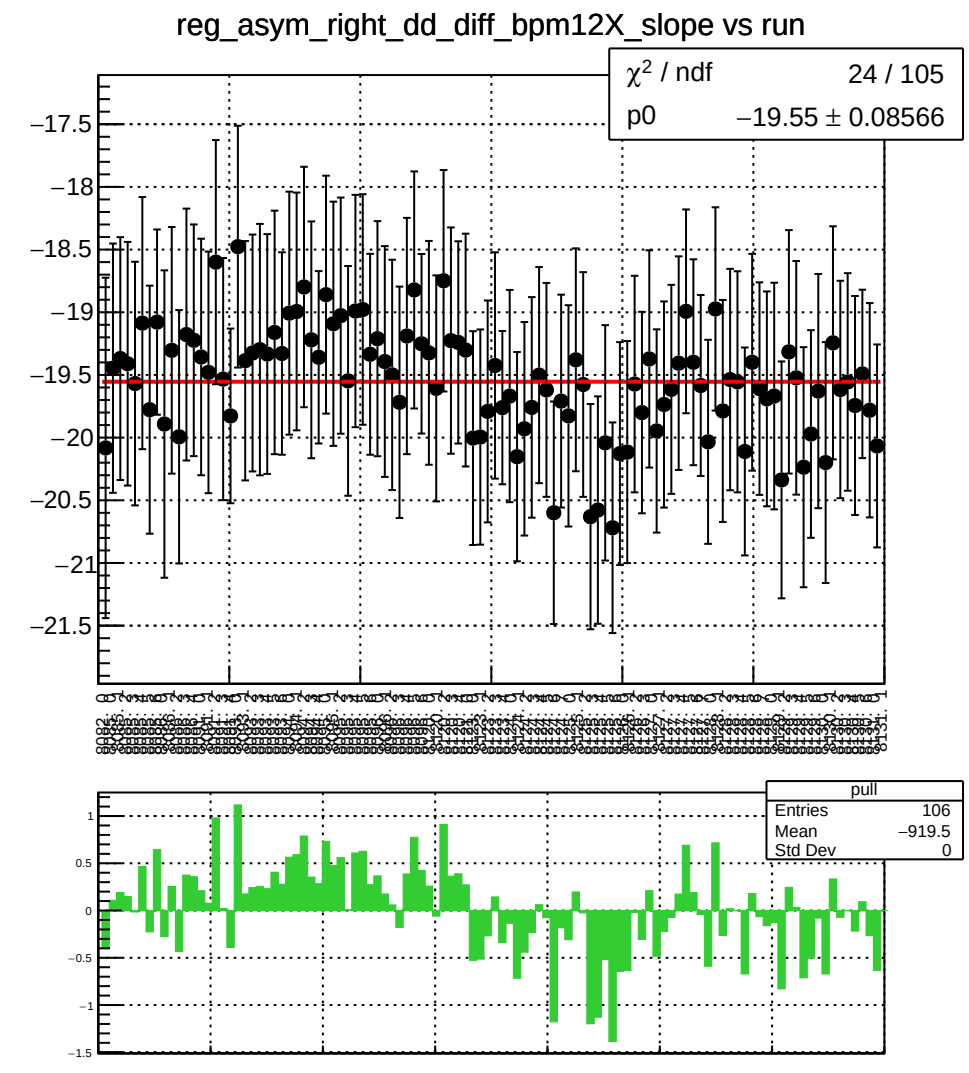

pull1D
Entries 106
Mean 0.003259
Std Dev 0.3898

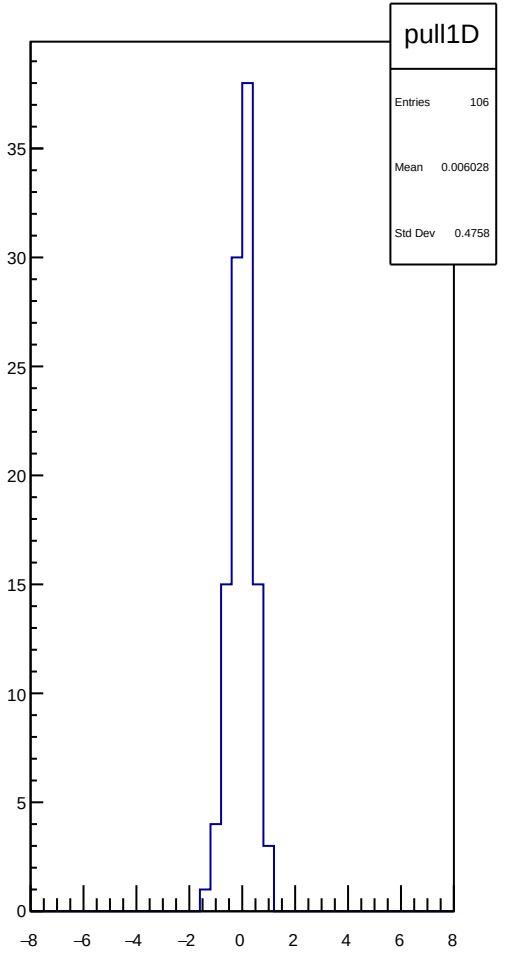

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 16.61 / 105
p0 12.24 ± 2.102
pull
Entries 106
Mean −442.8
Std Dev 0

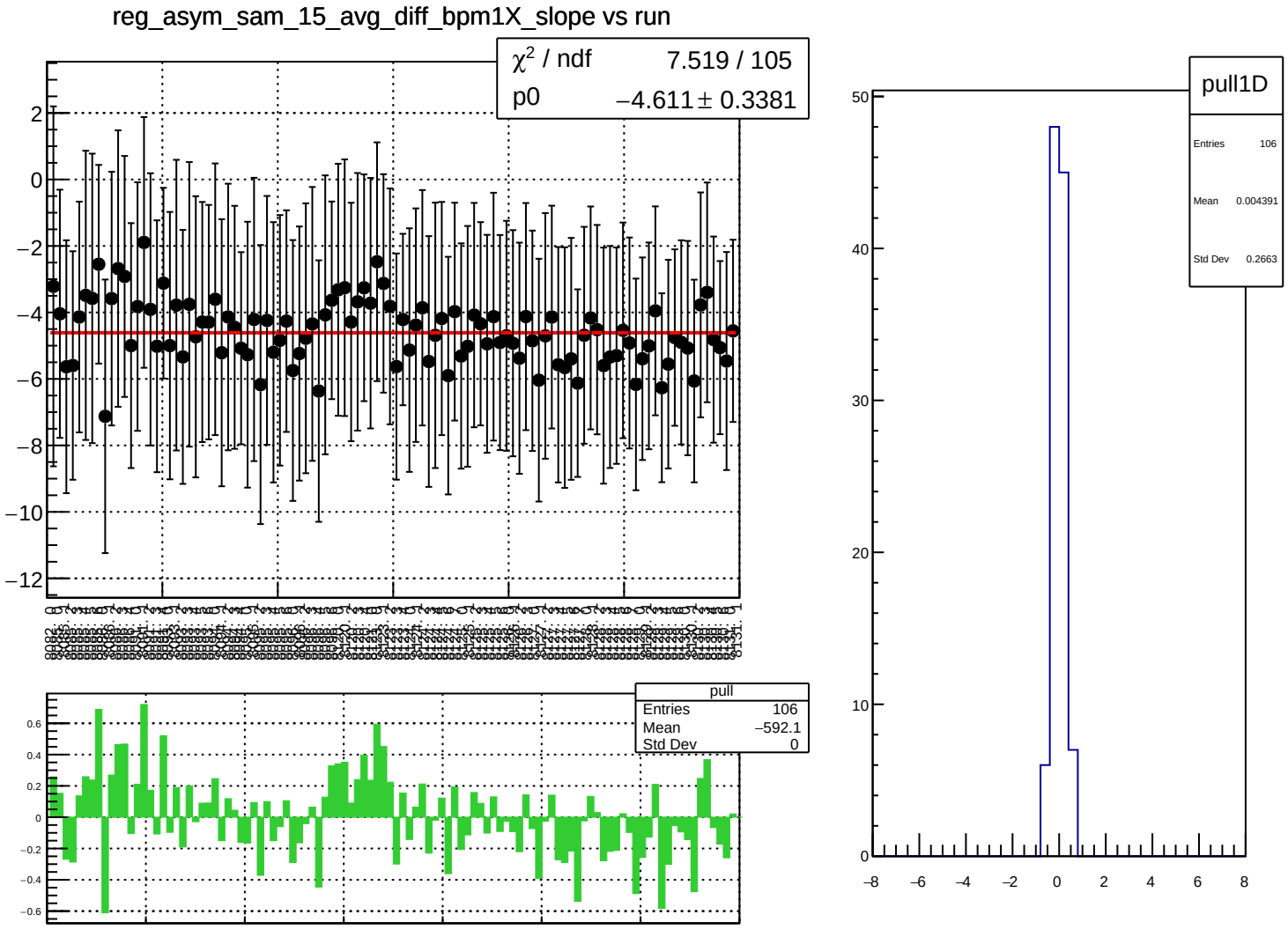

pull1D
Entries 106
Mean −0.001092
Std Dev 0.3959

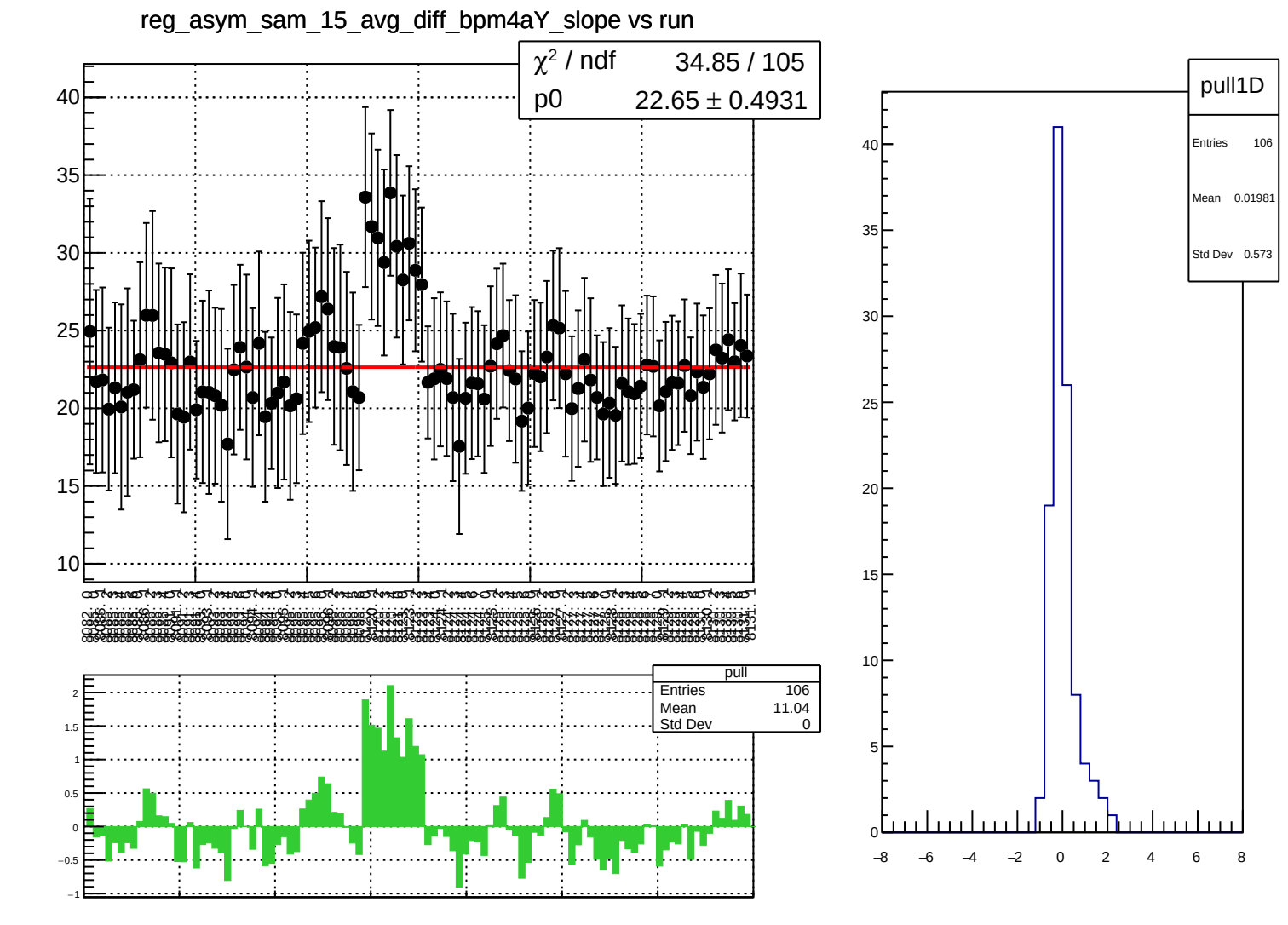

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 16.02 / 105
p0 59.59 ± 1.361
pull
Entries 106
Mean 1016
Std Dev 0
pull1D
Entries 106
Mean −0.00176
Std Dev 0.3888

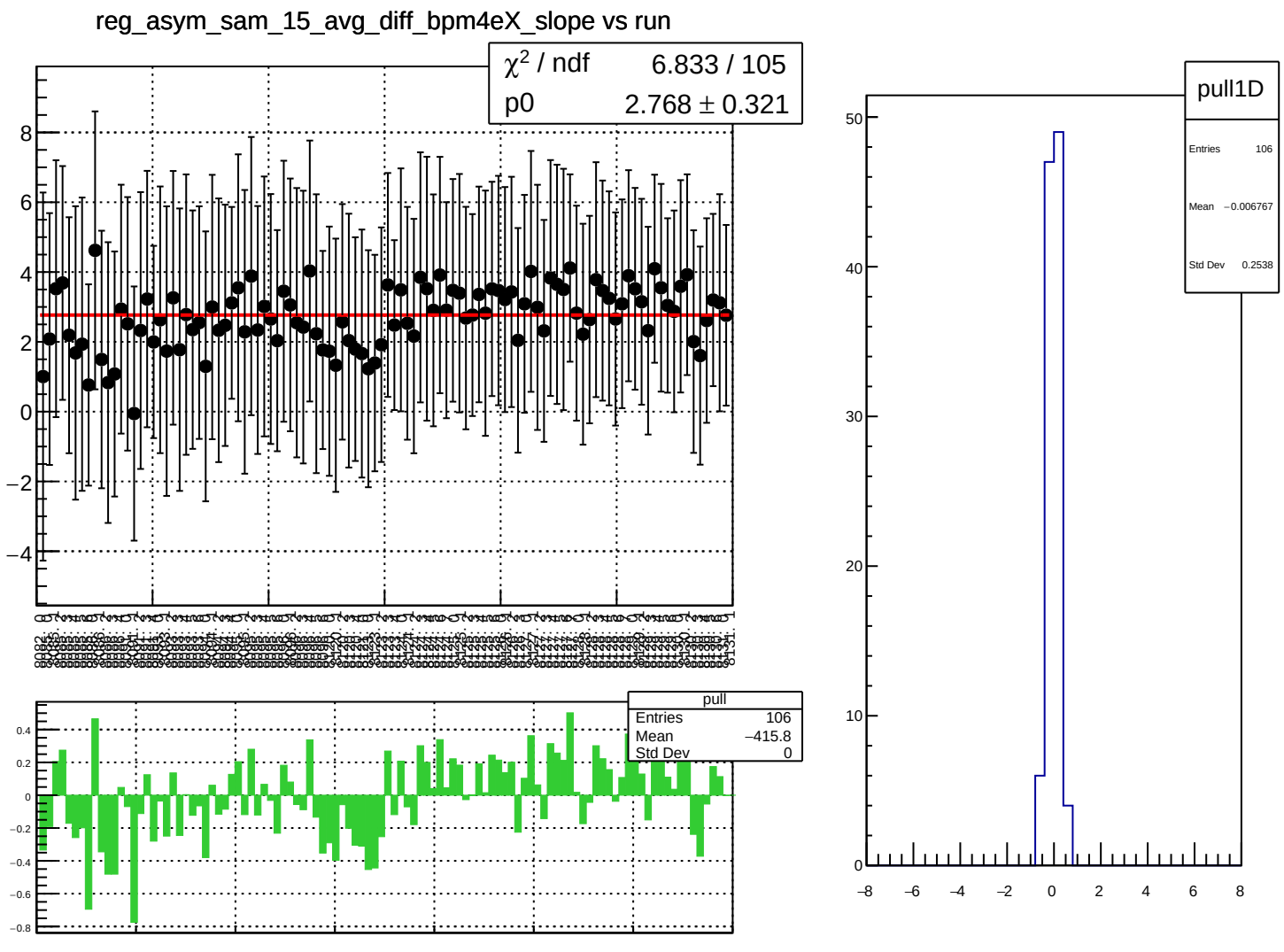

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 16.21 / 105
p0 −5.656 ± 2.245
pull
Entries 106
Mean 156.7
Std Dev 0
pull1D
Entries 106
Mean 0.0006244
Std Dev 0.391

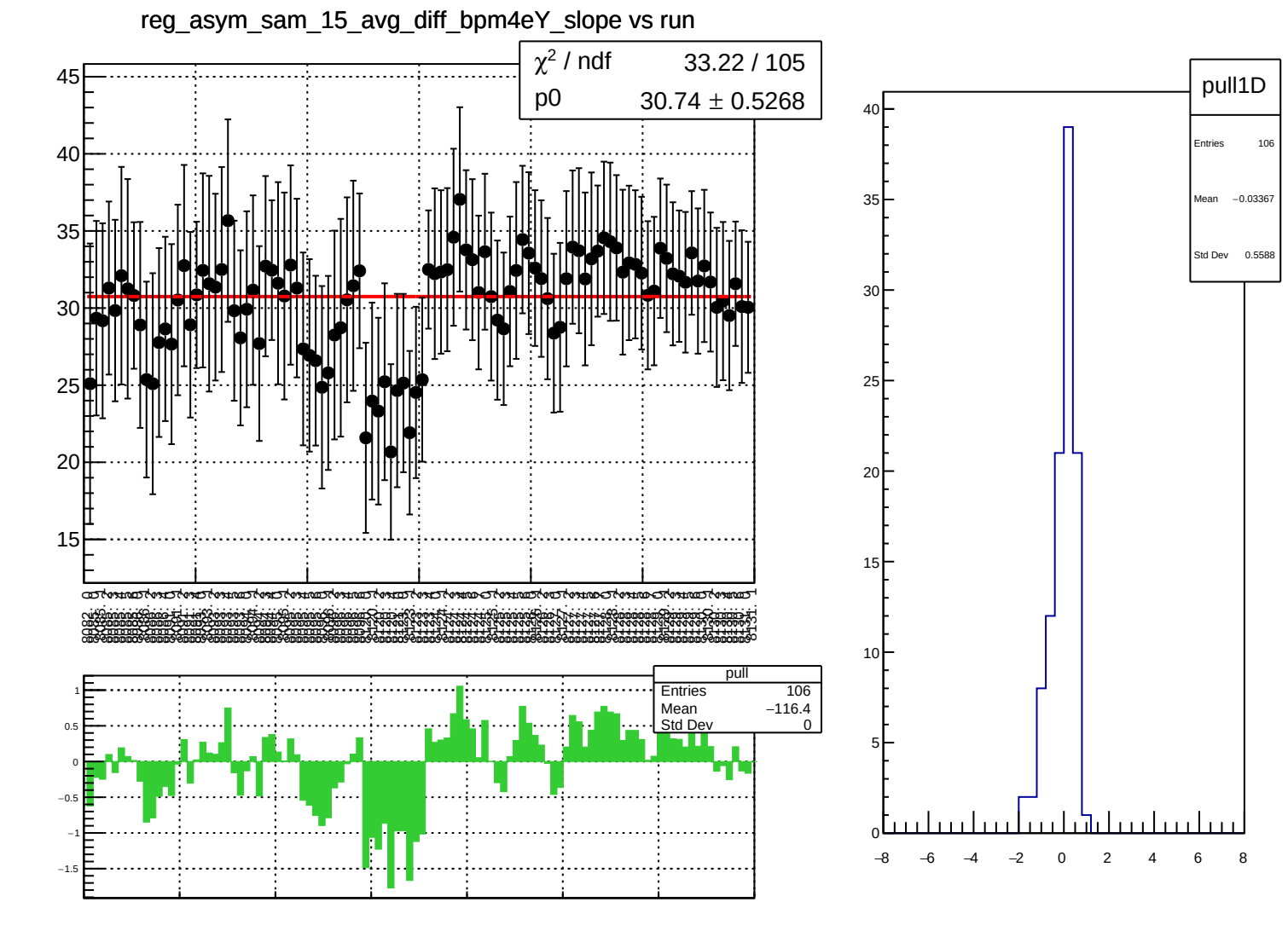

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 24 / 105
p0 −19.55 ± 0.08566
−17.5
−18
−18.5
−19
−19.5
−20
−20.5
−21
−21.5
pull
Entries 106
Mean −919.5
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

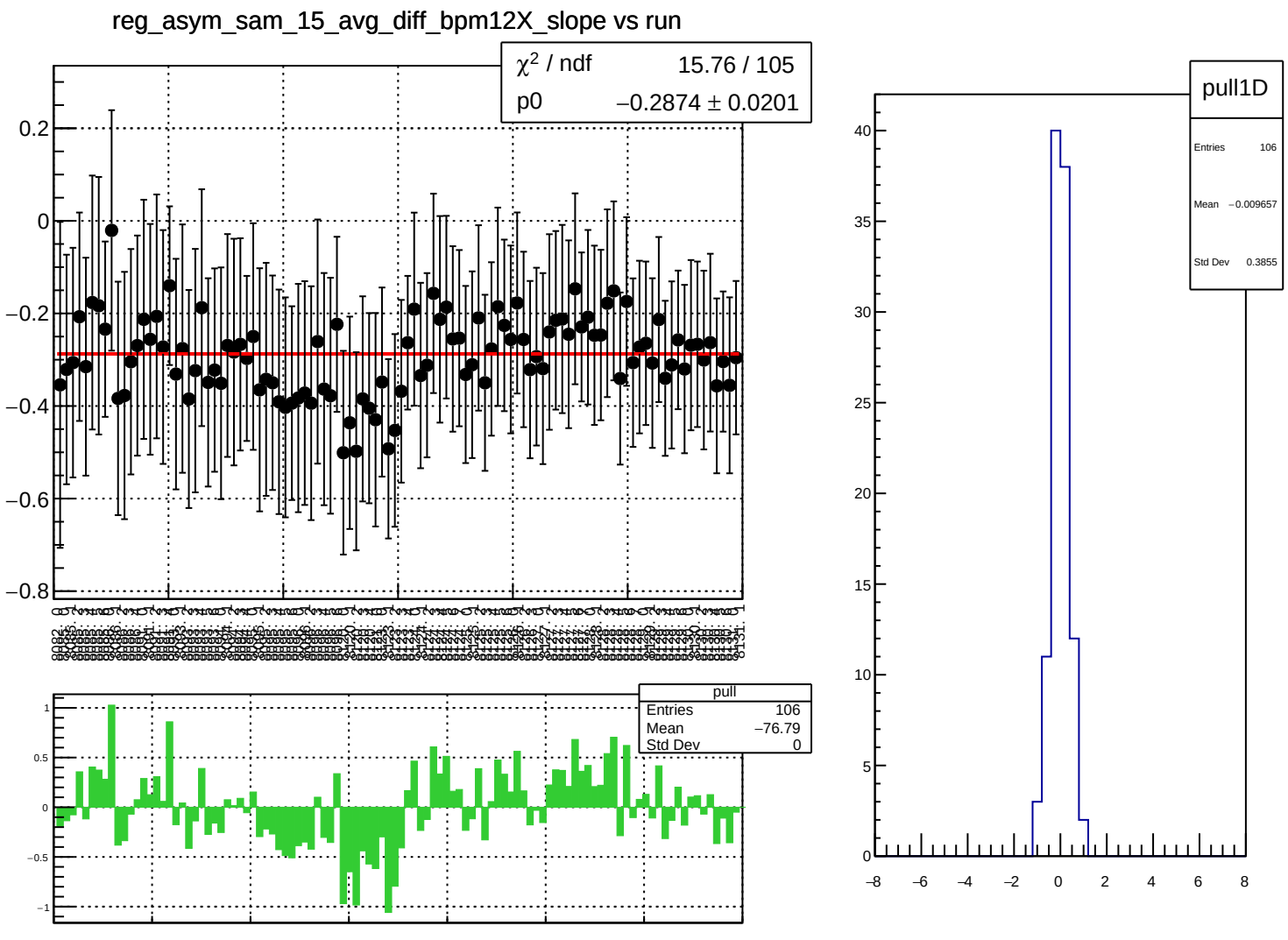

pull1D
Entries 106
Mean 0.006028
Std Dev 0.4758
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

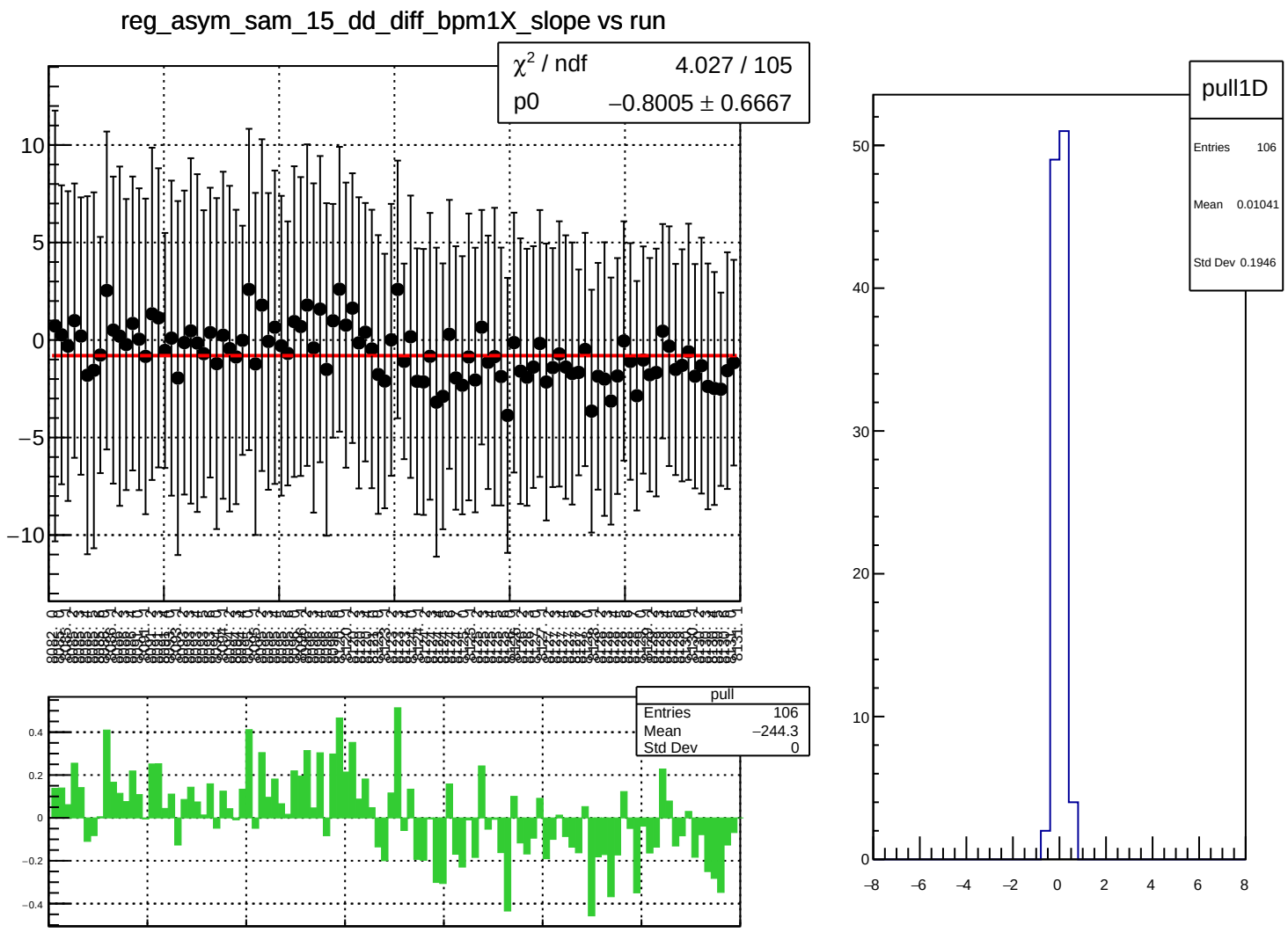

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 7.519 / 105
p0 −4.611 ± 0.3381
pull
Entries 106
Mean −592.1
Std Dev 0
pull1D
Entries 106
Mean 0.004391
Std Dev 0.2663

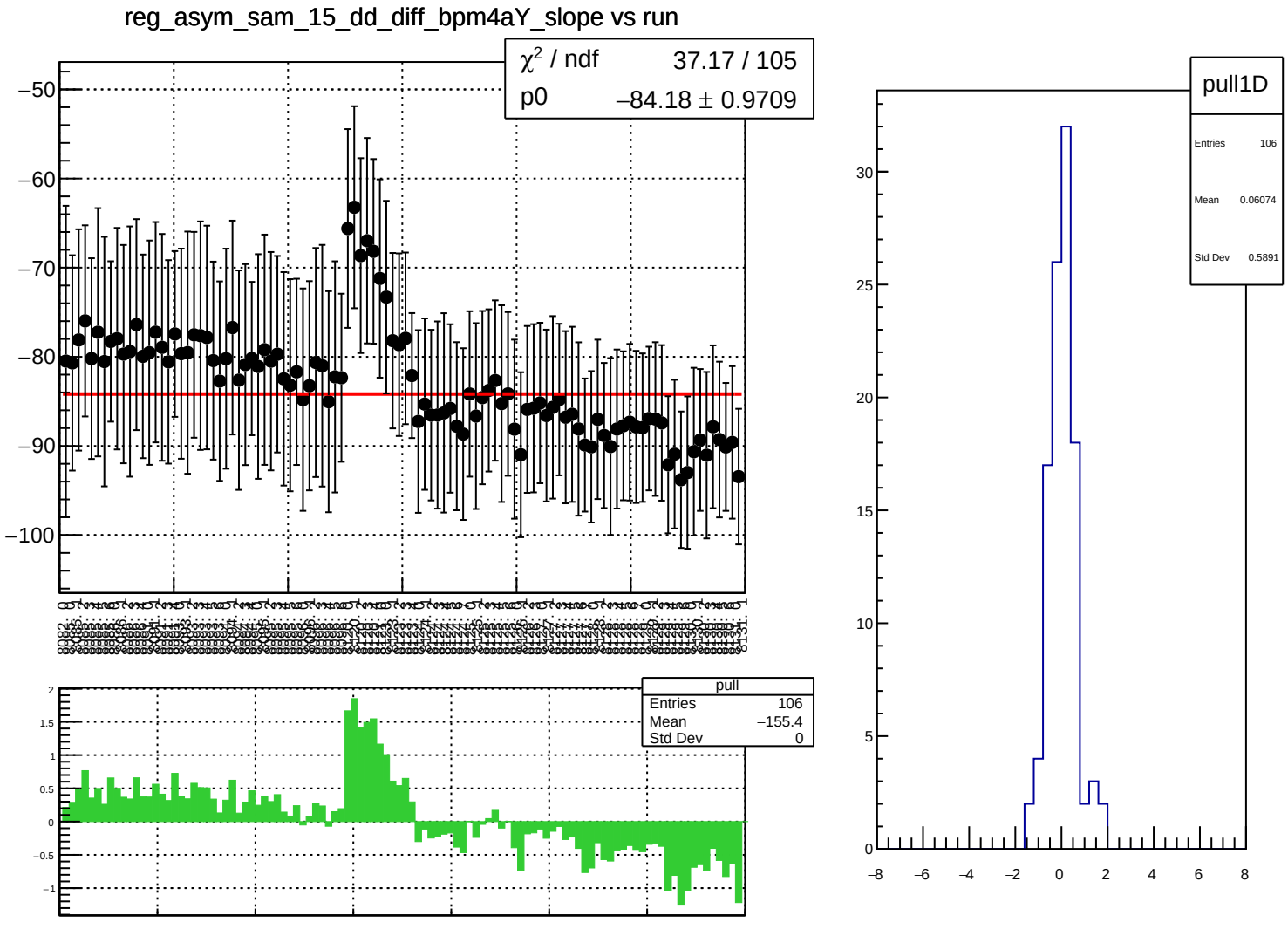

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 34.85 / 105
p0 22.65 ± 0.4931
pull
Entries 106
Mean 11.04
Std Dev 0
pull1D
Entries 106
Mean 0.01981
Std Dev 0.573

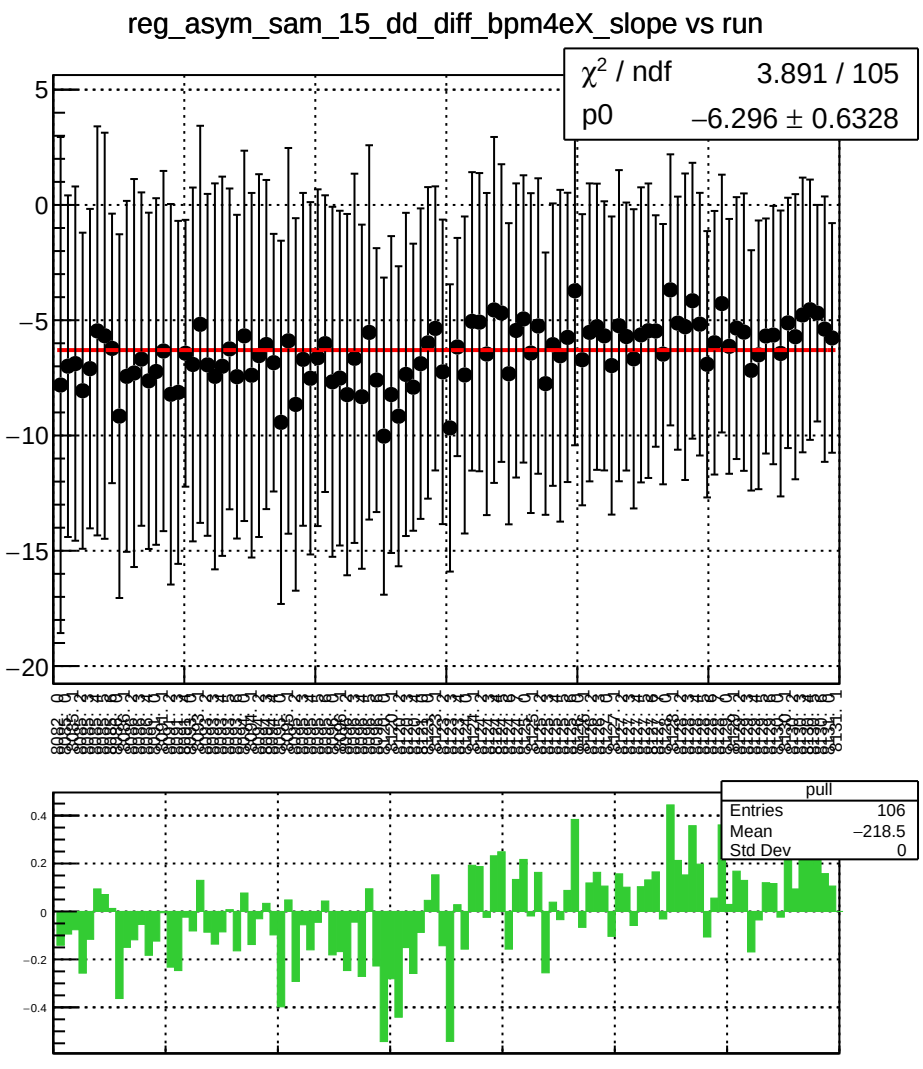

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.833 / 105
p0 2.768 ± 0.321
pull
Entries 106
Mean −415.8
Std Dev 0
pull1D
Entries 106
Mean −0.006767
Std Dev 0.2538

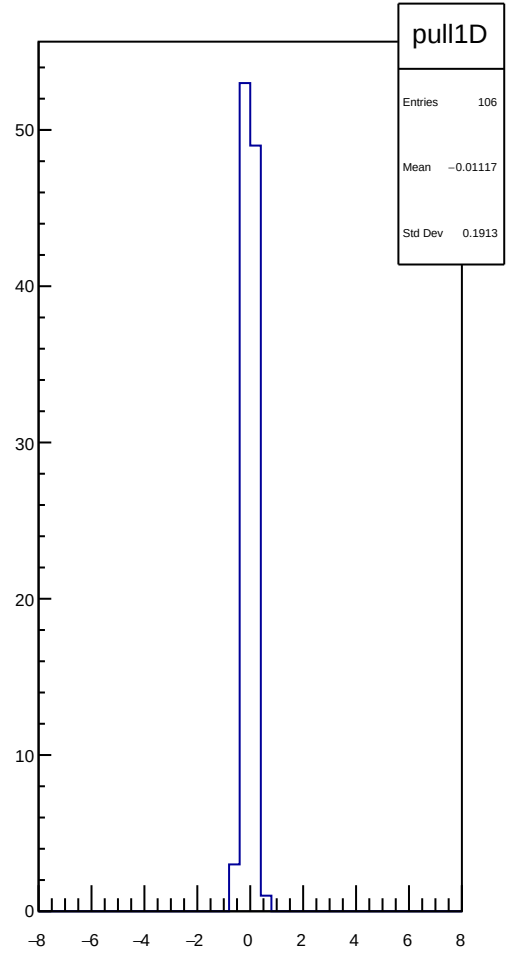

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 33.22 / 105
p0 30.74 ± 0.5268
pull
Entries 106
Mean −116.4
Std Dev 0
pull1D
Entries 106
Mean −0.03367
Std Dev 0.5588

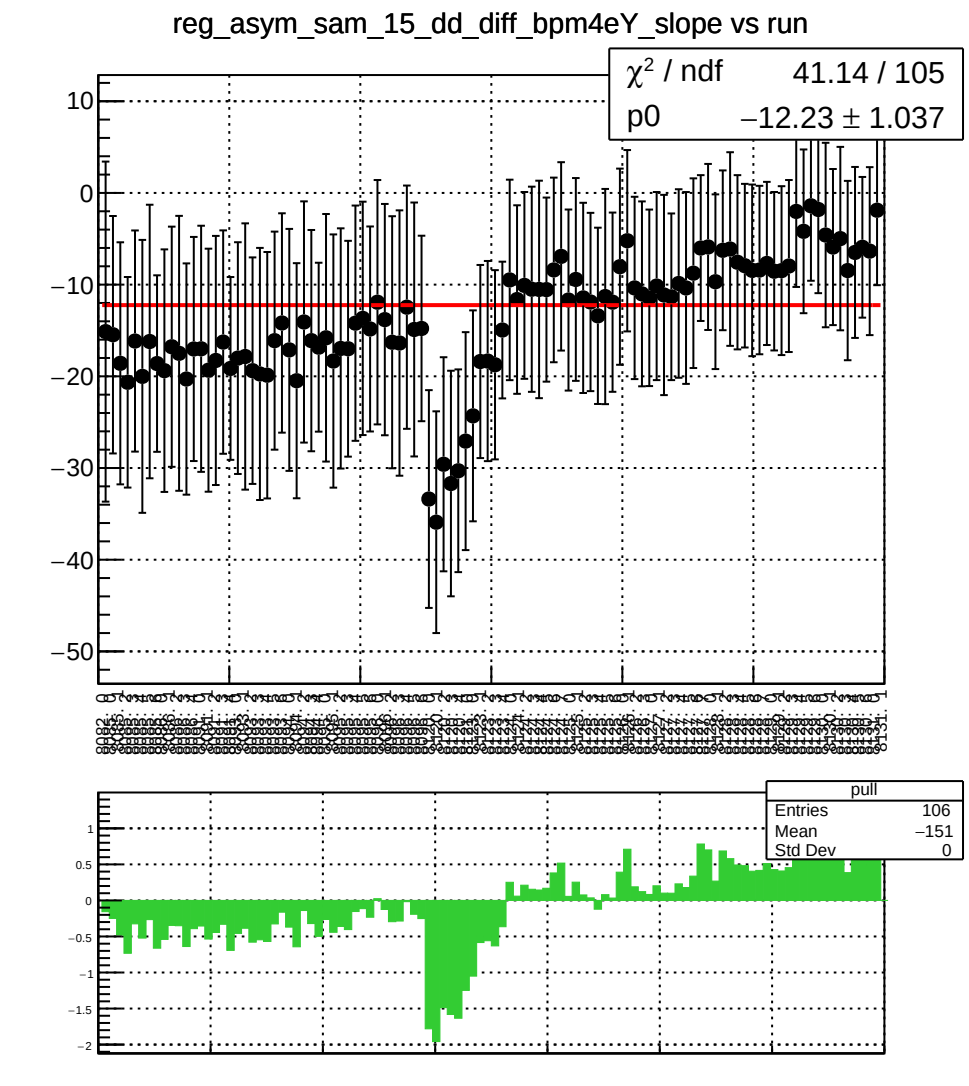

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 15.76 / 105
p0 −0.2874 ± 0.0201
pull
Entries 106
Mean −76.79
Std Dev 0
pull1D
Entries 106
Mean −0.009657
Std Dev 0.3855

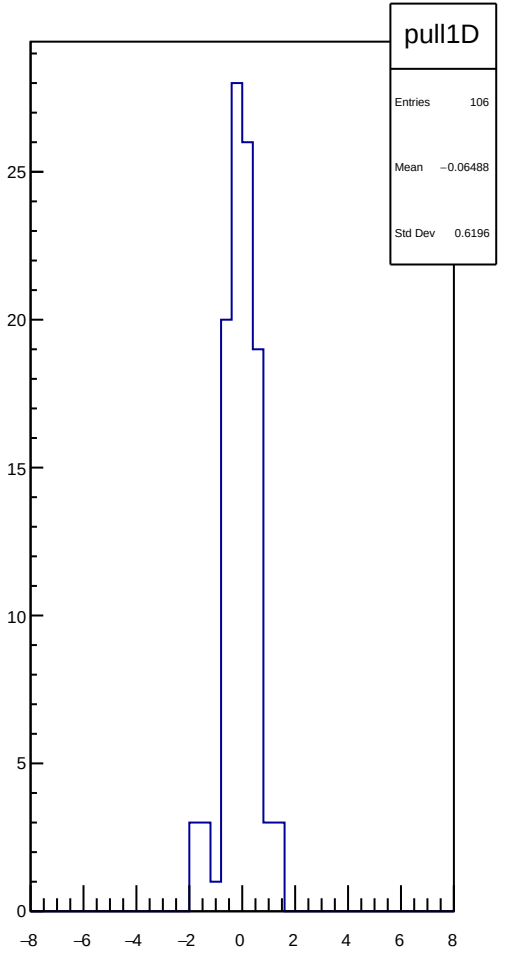

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 4.027 / 105
p0 −0.8005 ± 0.6667
10
5
0
−5
−10
pull
Entries 106
Mean −244.3
Std Dev 0
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 106
Mean 0.01041
Std Dev 0.1946
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

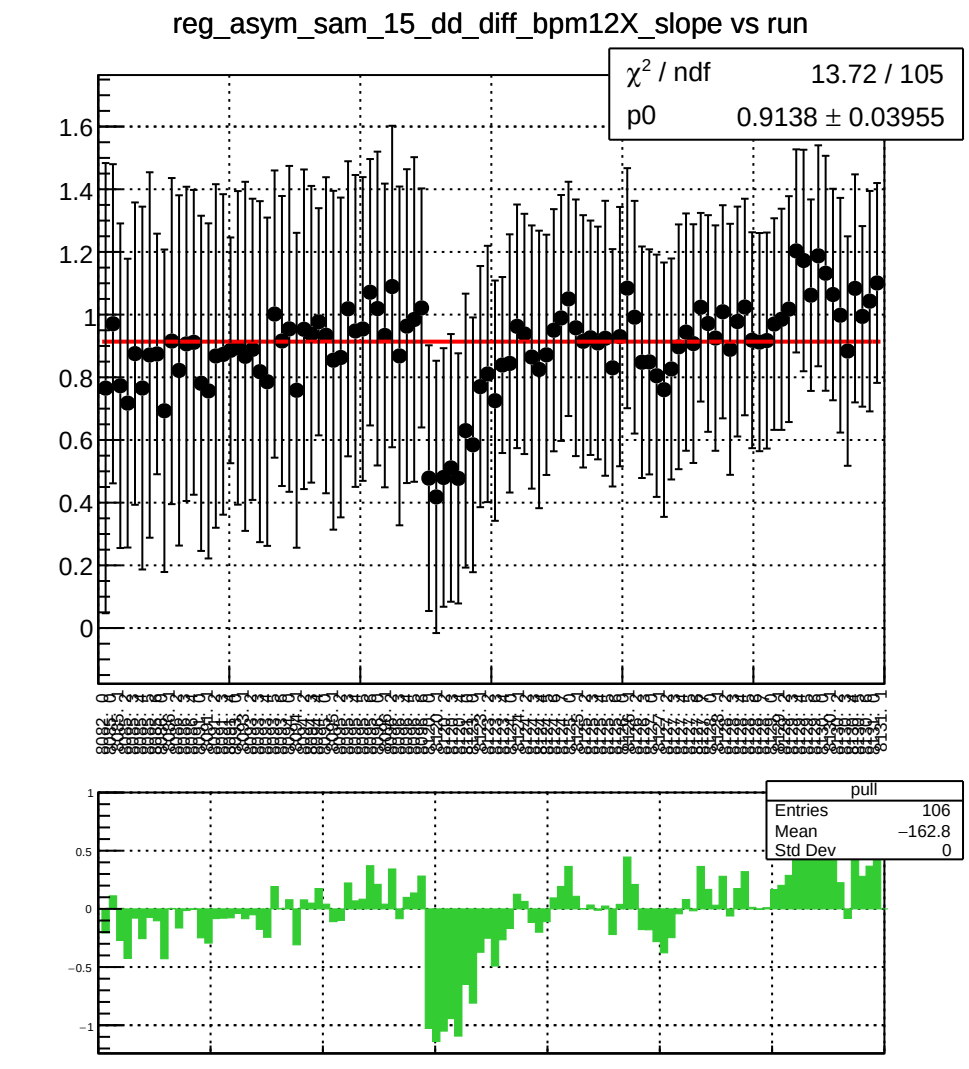

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 37.17 / 105
p0 −84.18 ± 0.9709
−50
−60
−70
−80
−90
−100
pull
Entries 106
Mean −155.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 106
Mean 0.06074
Std Dev 0.5891
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

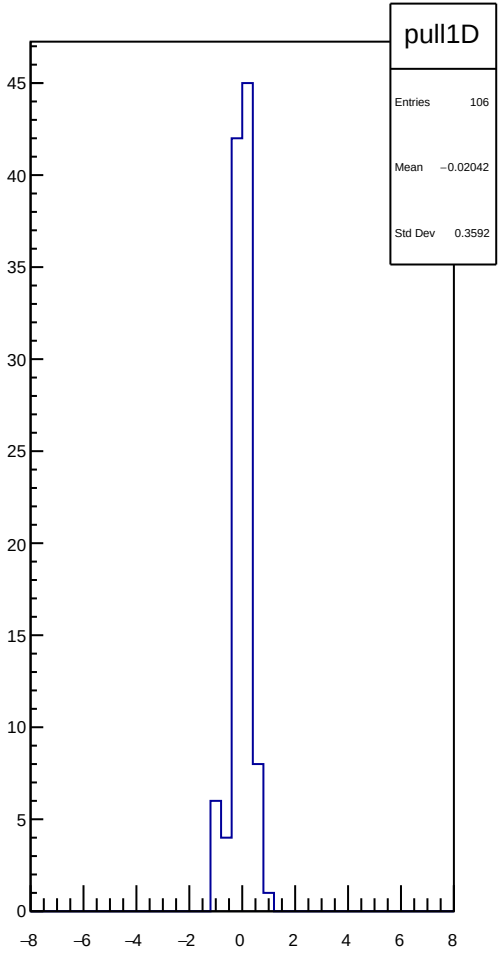

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.891 / 105
p0 −6.296 ± 0.6328
pull
Entries 106
Mean −218.5
Std Dev 0

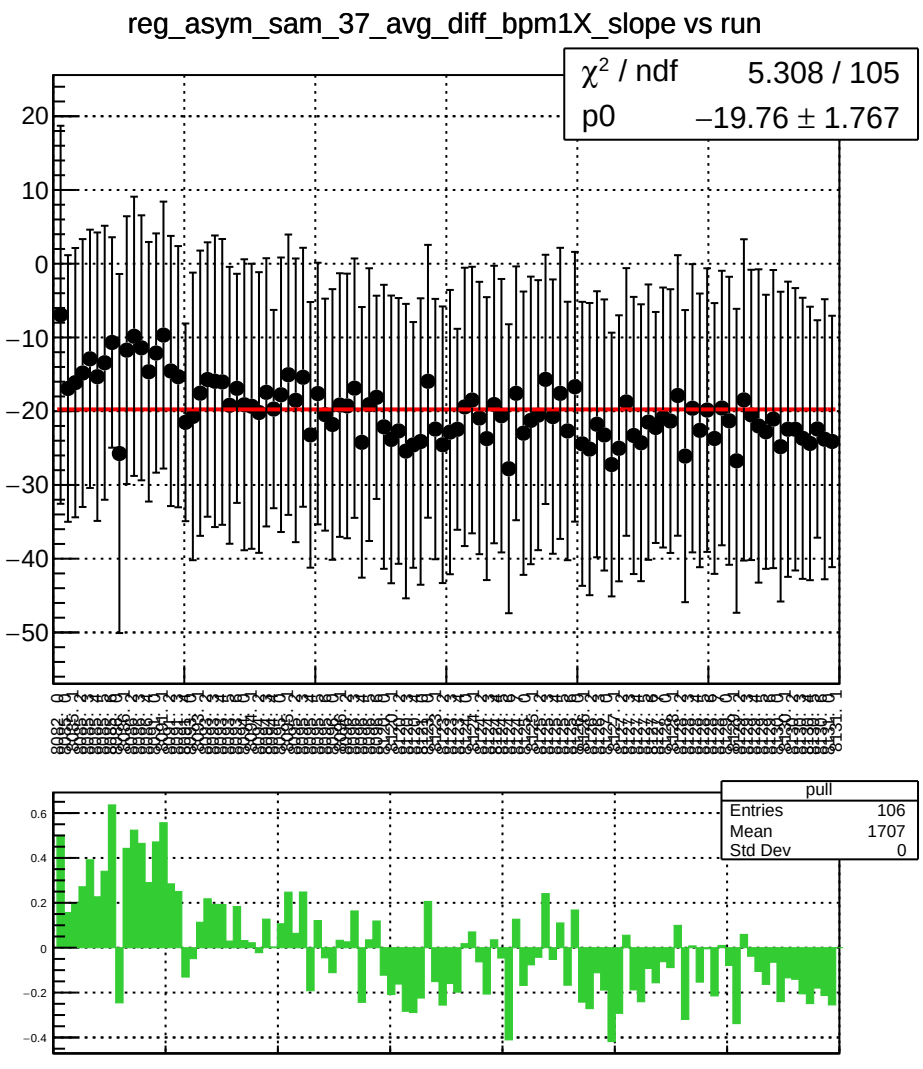

pull1D
Entries 106
Mean −0.01117
Std Dev 0.1913

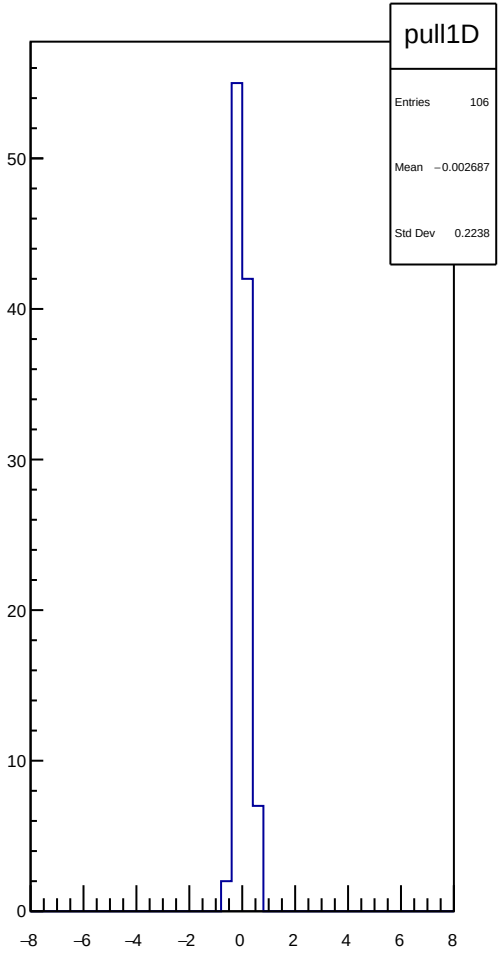

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 41.14 / 105
p0 −12.23 ± 1.037
pull
Entries 106
Mean −151
Std Dev 0

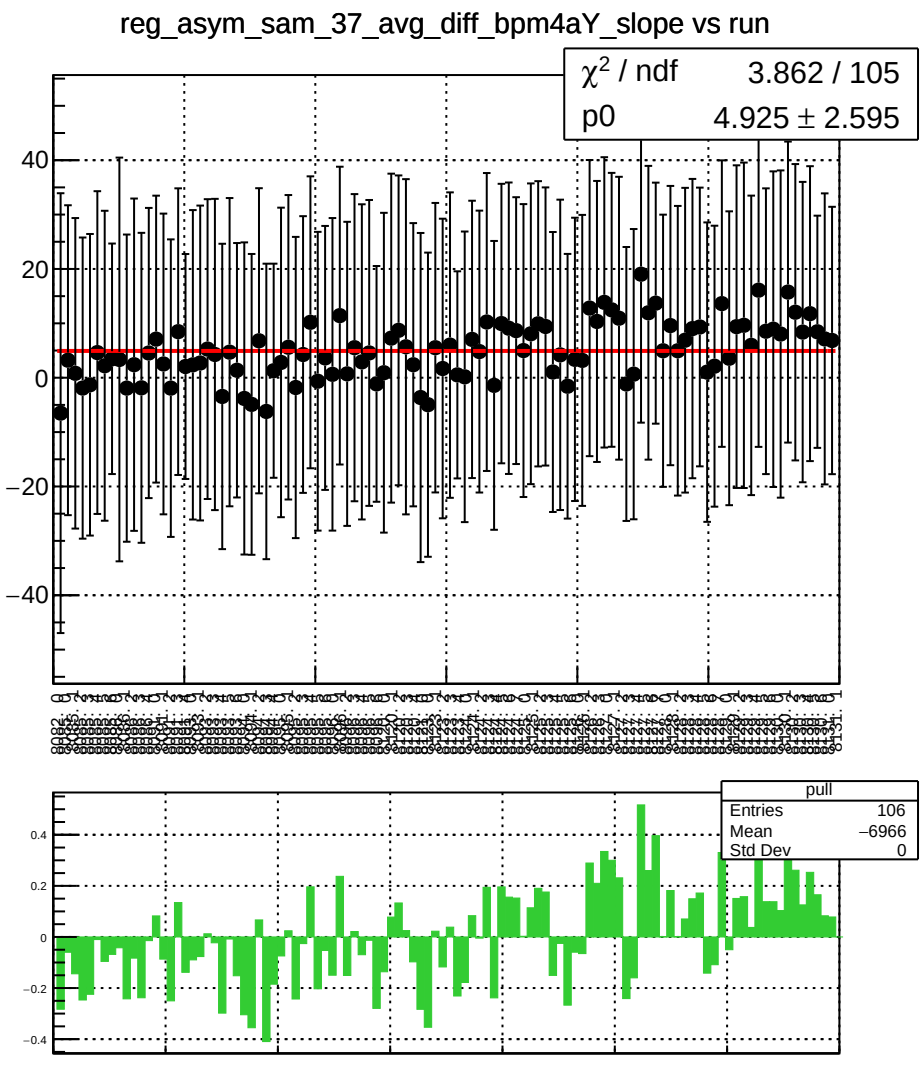

pull1D
Entries 106
Mean −0.06488
Std Dev 0.6196

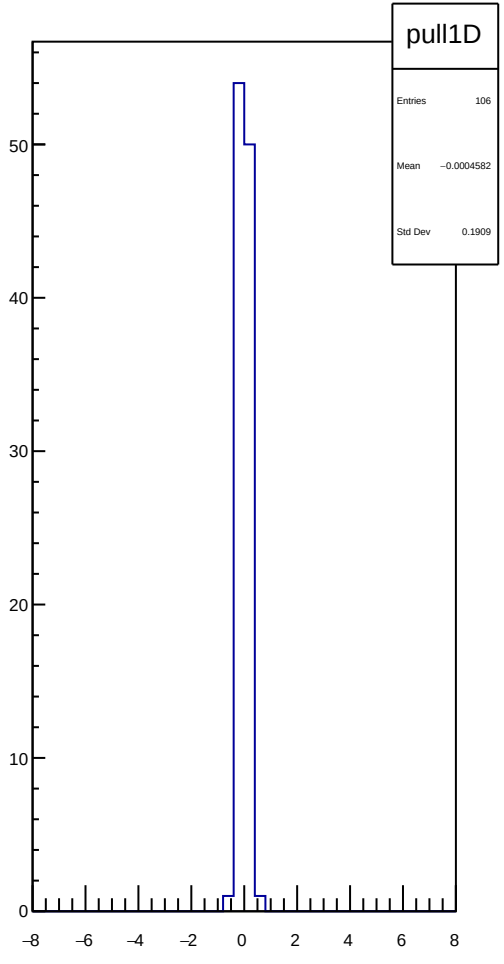

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 13.72 / 105
p0 0.9138 ± 0.03955
pull
Entries 106
Mean −162.8
Std Dev 0

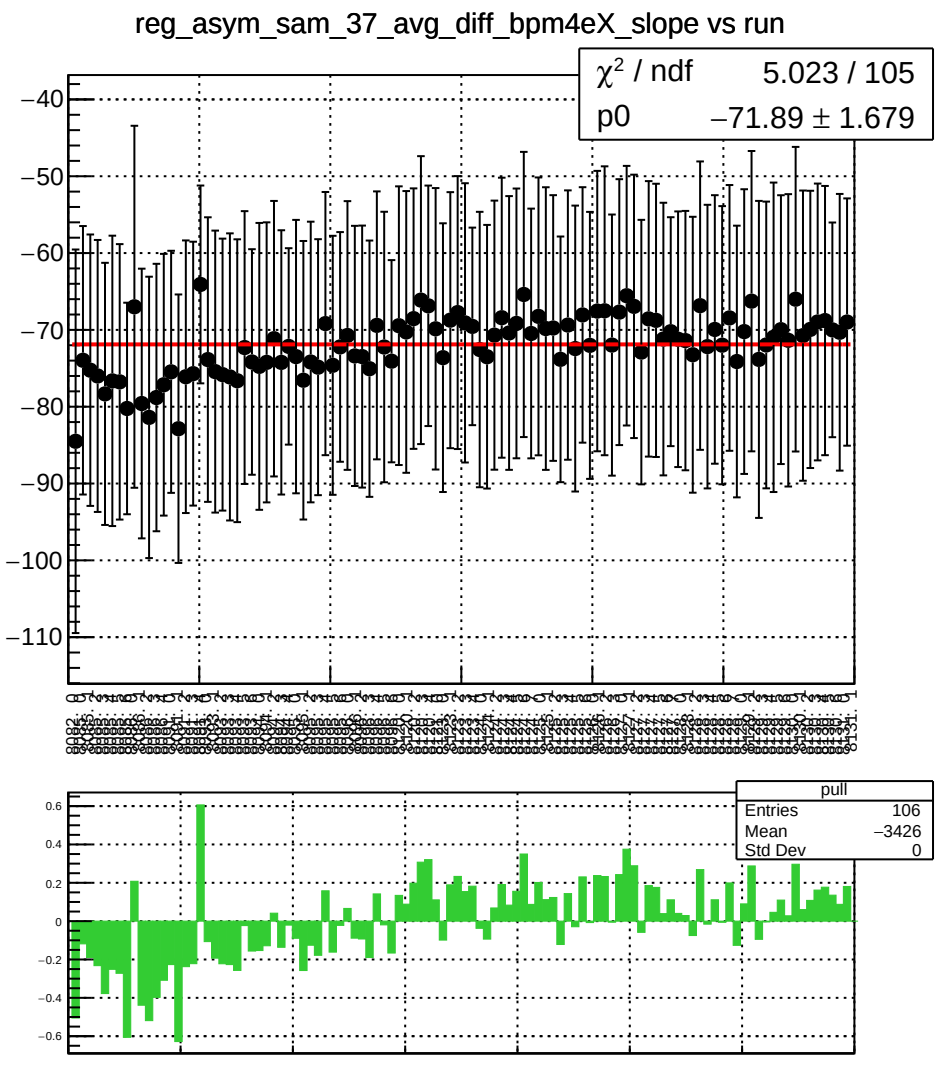

pull1D
Entries 106
Mean −0.02042
Std Dev 0.3592

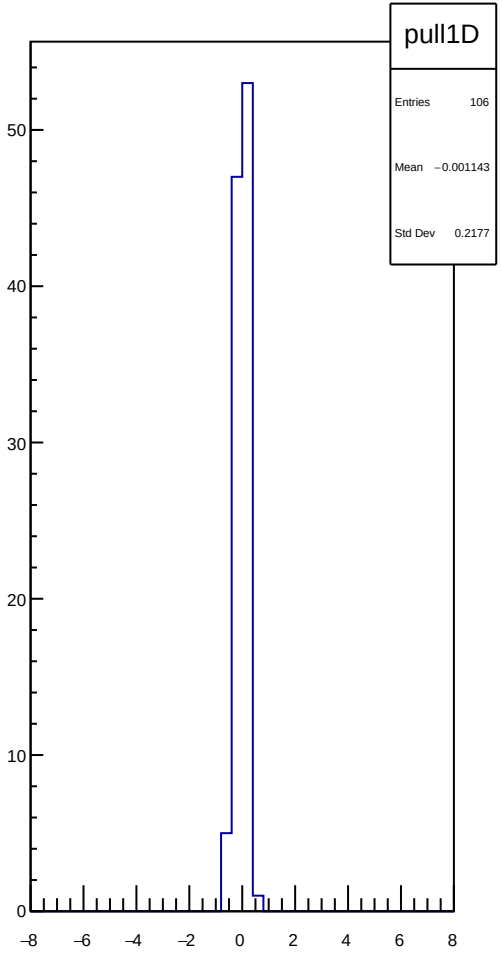

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 5.308 / 105
p0 −19.76 ± 1.767
pull
Entries 106
Mean 1707
Std Dev 0

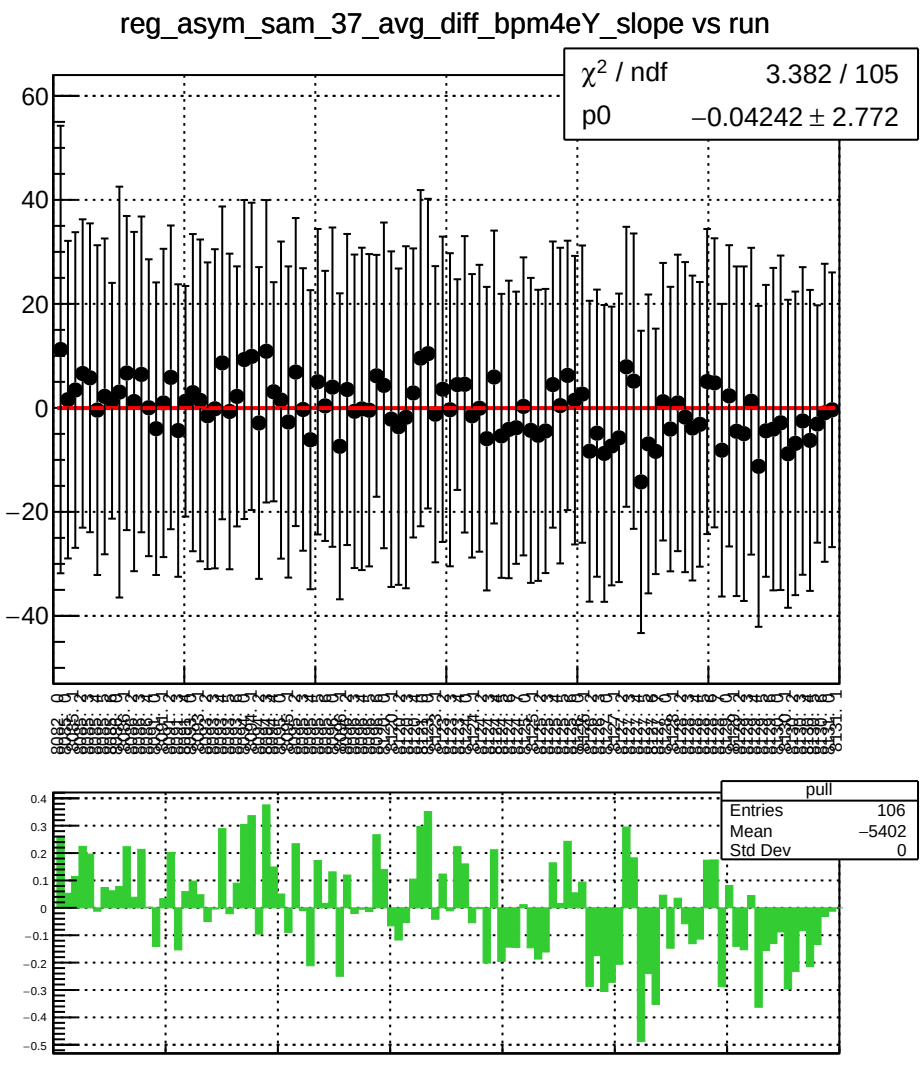

pull1D
Entries 106
Mean −0.002687
Std Dev 0.2238

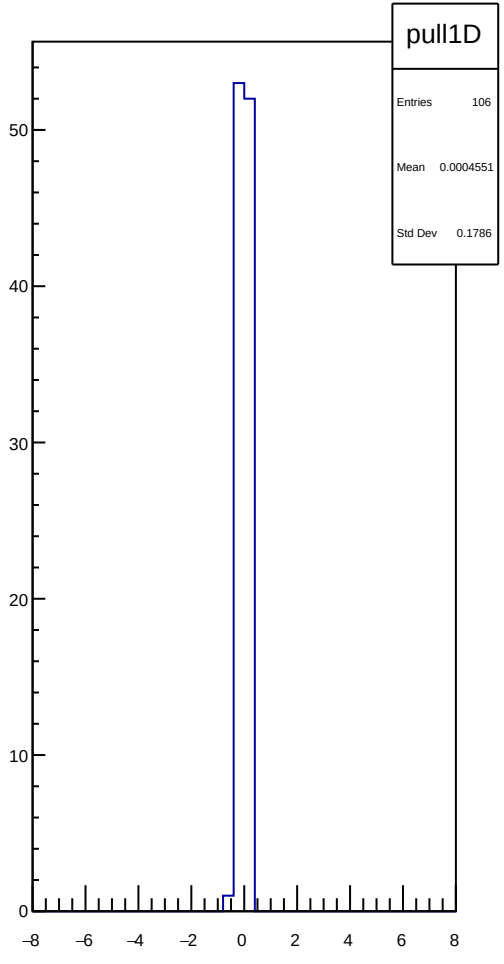

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.862 / 105
p0 4.925 ± 2.595
40
20
0
−20
−40
pull
Entries 106
Mean −6966
Std Dev 0
0.4
0.2
0
−0.2
−0.4

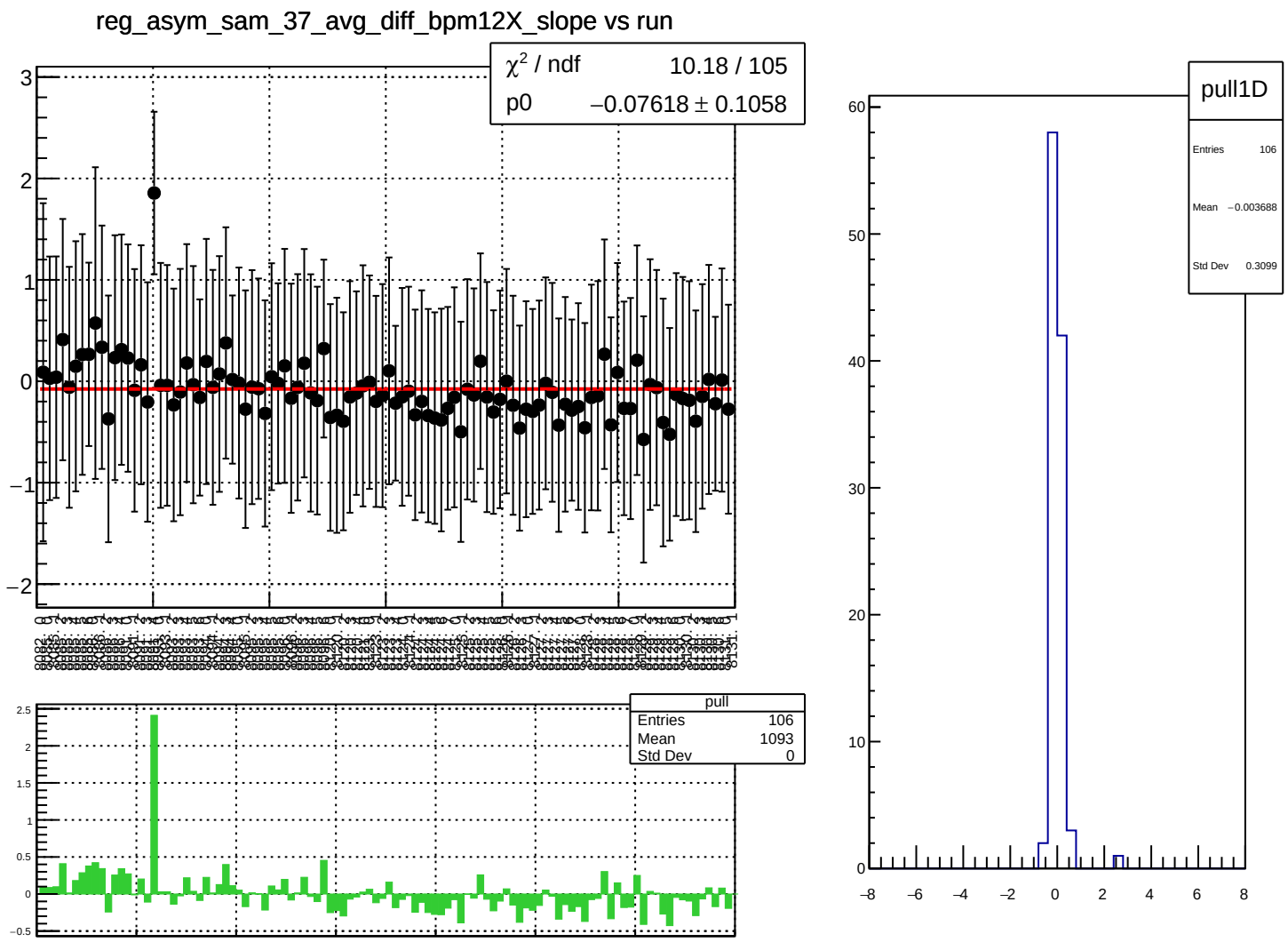

pull1D
Entries 106
Mean −0.0004582
Std Dev 0.1909
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

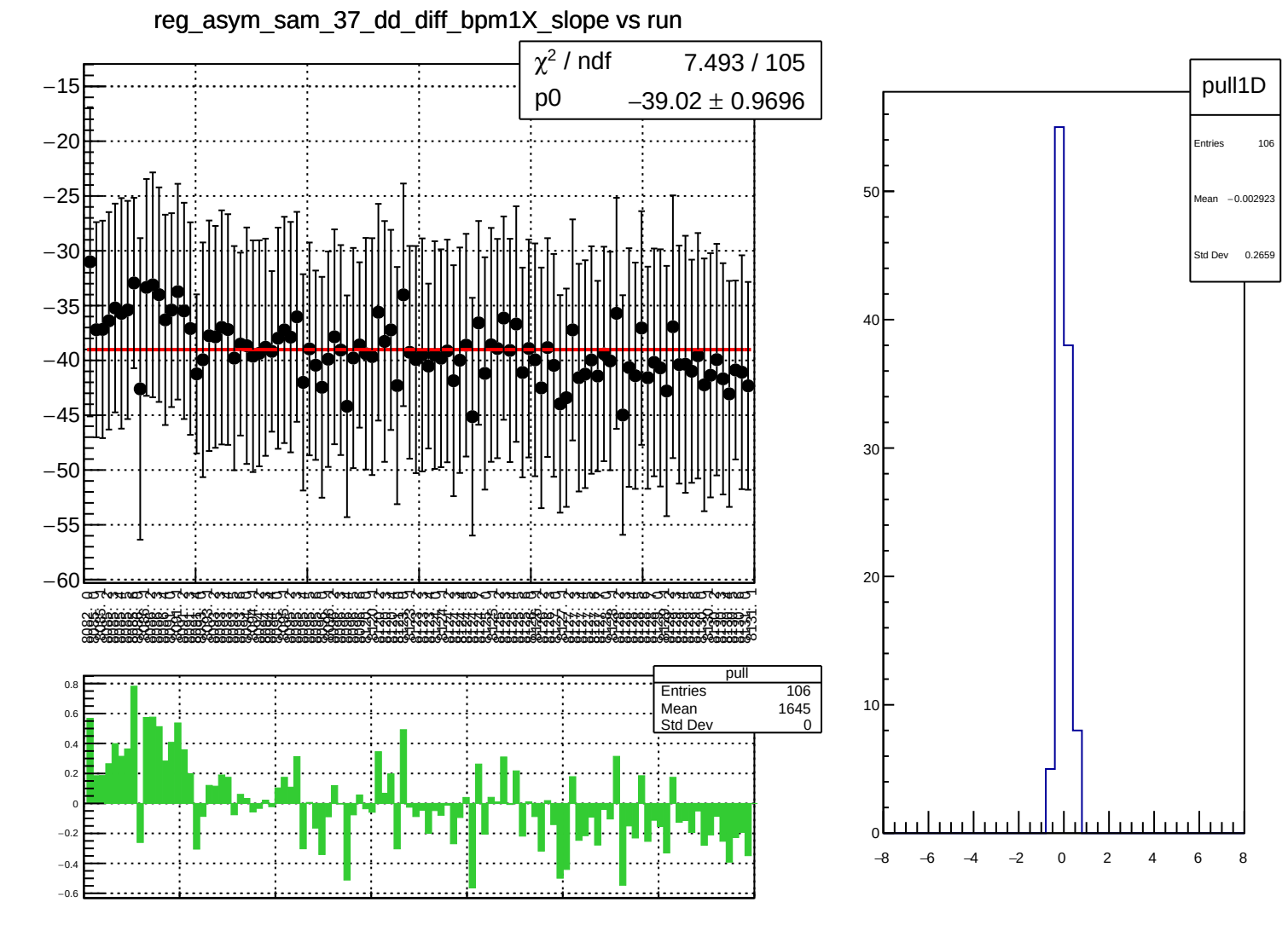

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 5.023 / 105
p0 −71.89 ± 1.679
pull
Entries 106
Mean −3426
Std Dev 0

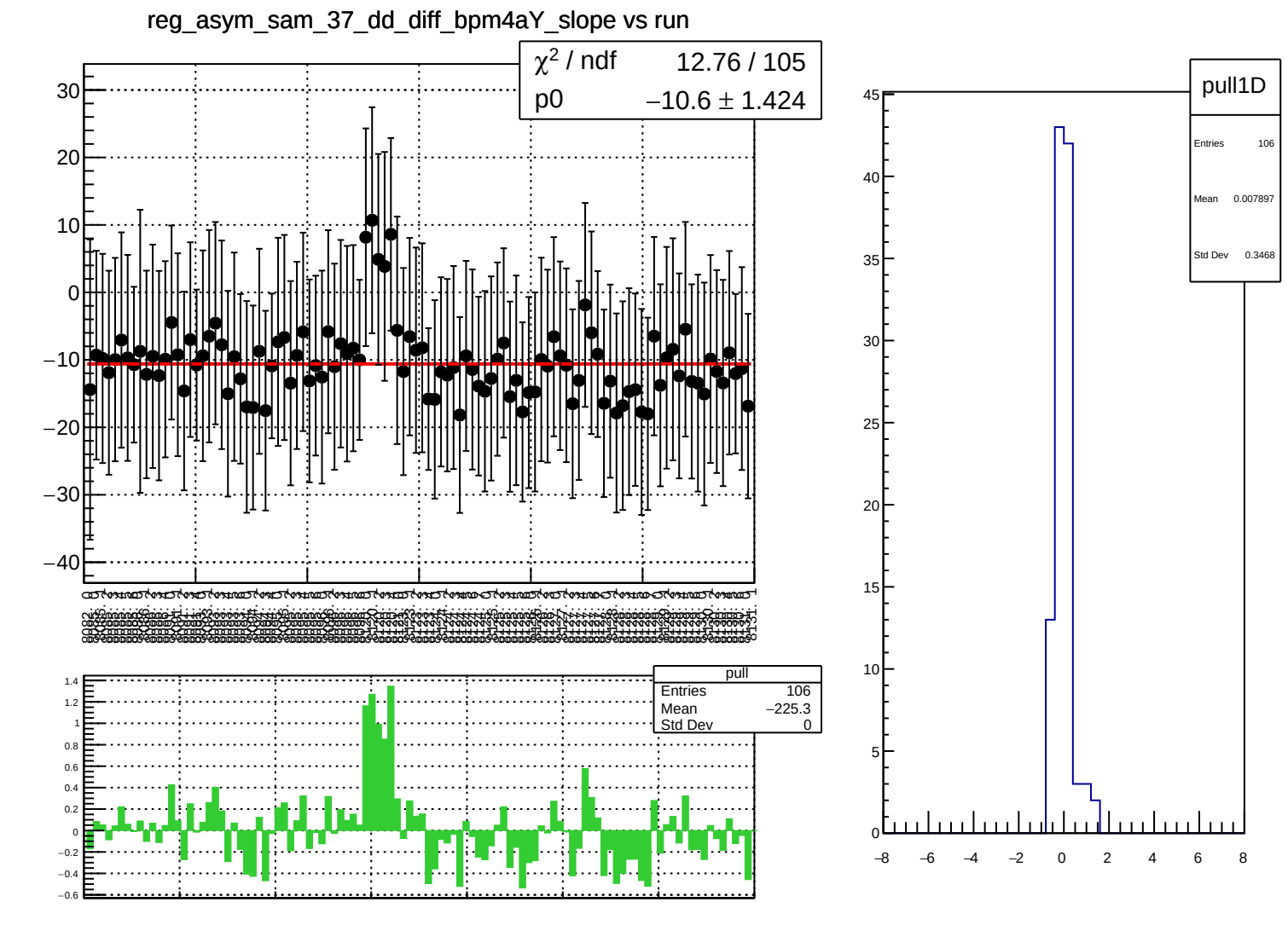

pull1D
Entries 106
Mean −0.001143
Std Dev 0.2177

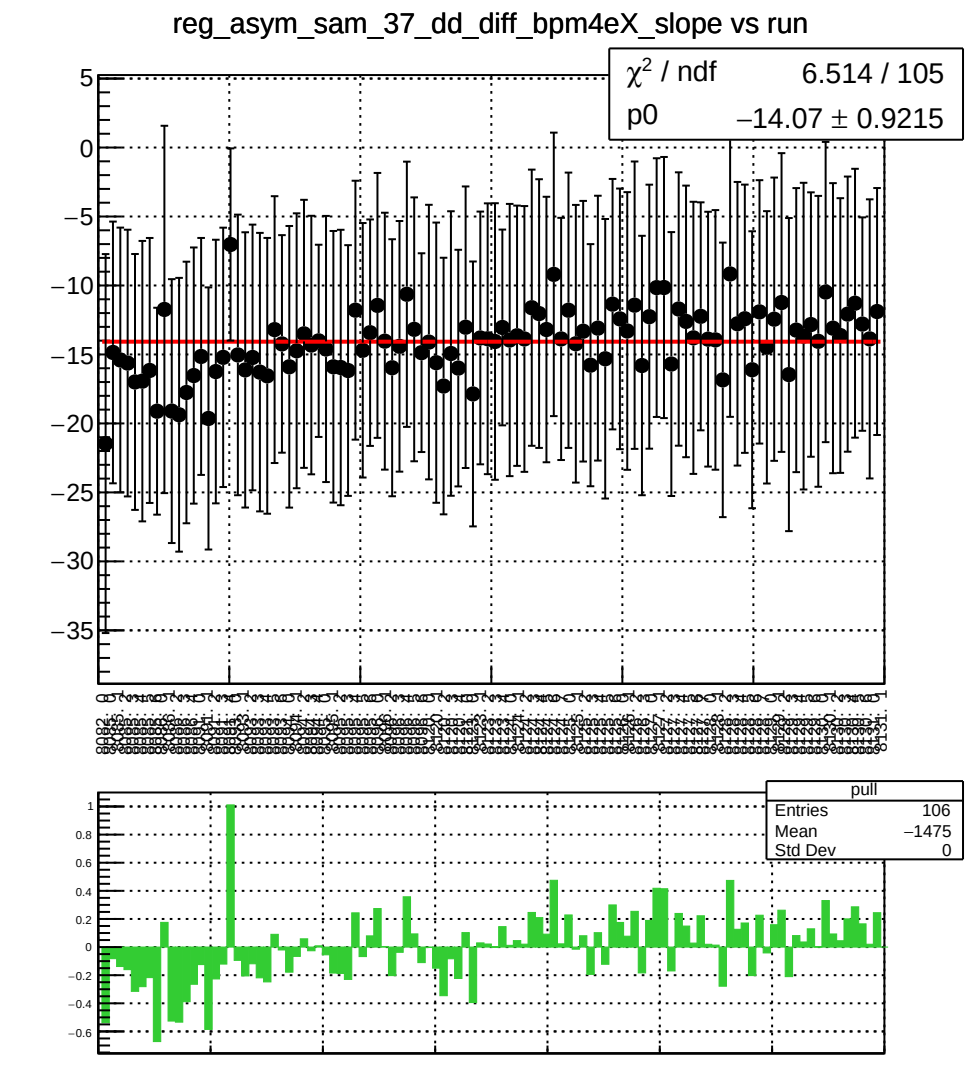

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.382 / 105
p0 −0.04242 ± 2.772
60
40
20
0
−20
−40
pull
Entries 106
Mean −5402
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5

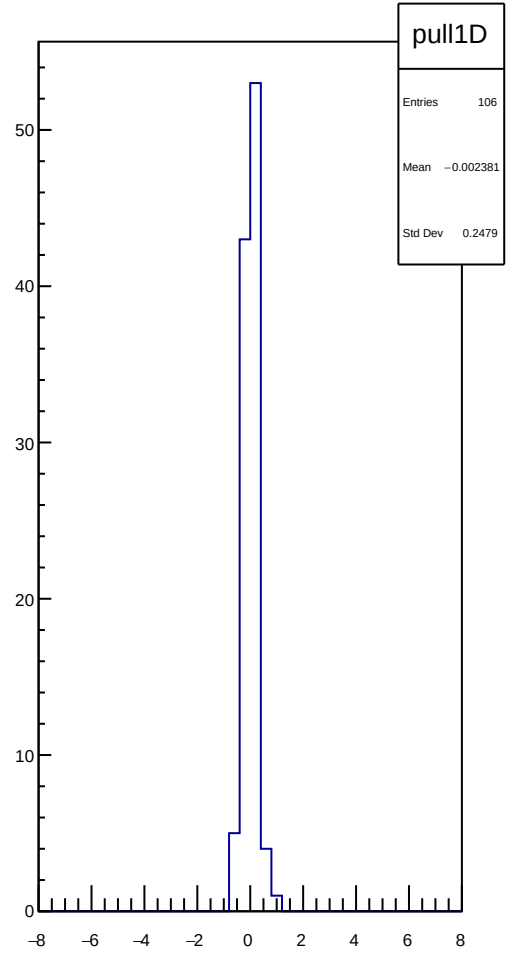

pull1D
Entries 106
Mean 0.0004551
Std Dev 0.1786
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

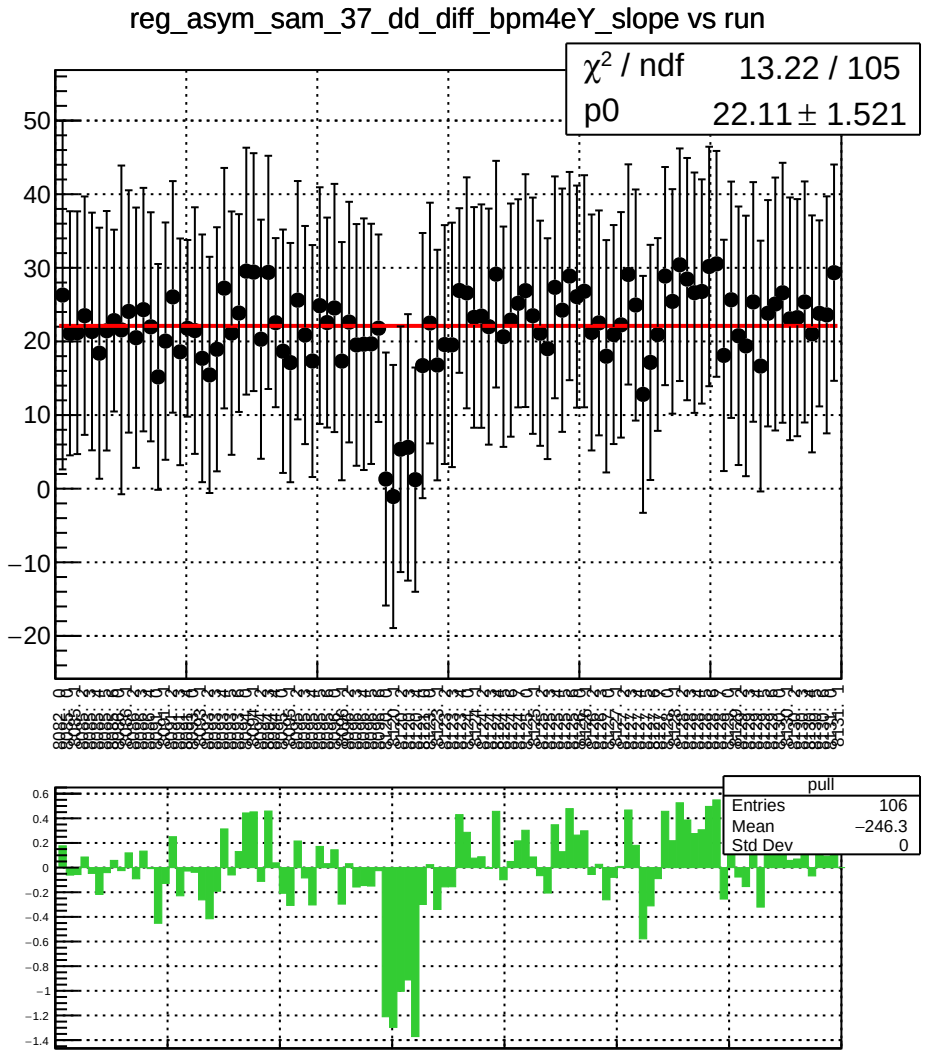

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 10.18 / 105
p0 −0.07618 ± 0.1058
pull
Entries 106
Mean 1093
Std Dev 0
pull1D
Entries 106
Mean −0.003688
Std Dev 0.3099

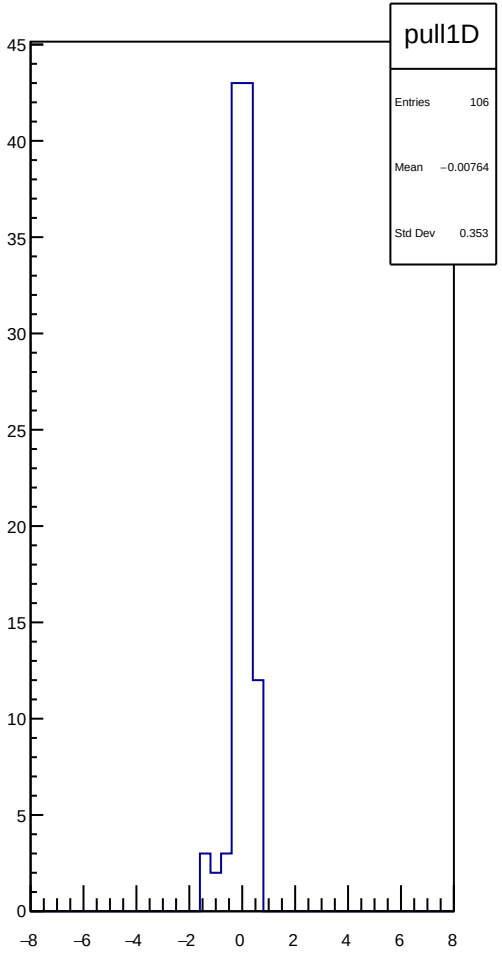

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 7.493 / 105
p0 −39.02 ± 0.9696
pull
Entries 106
Mean 1645
Std Dev 0
pull1D
Entries 106
Mean −0.002923
Std Dev 0.2659

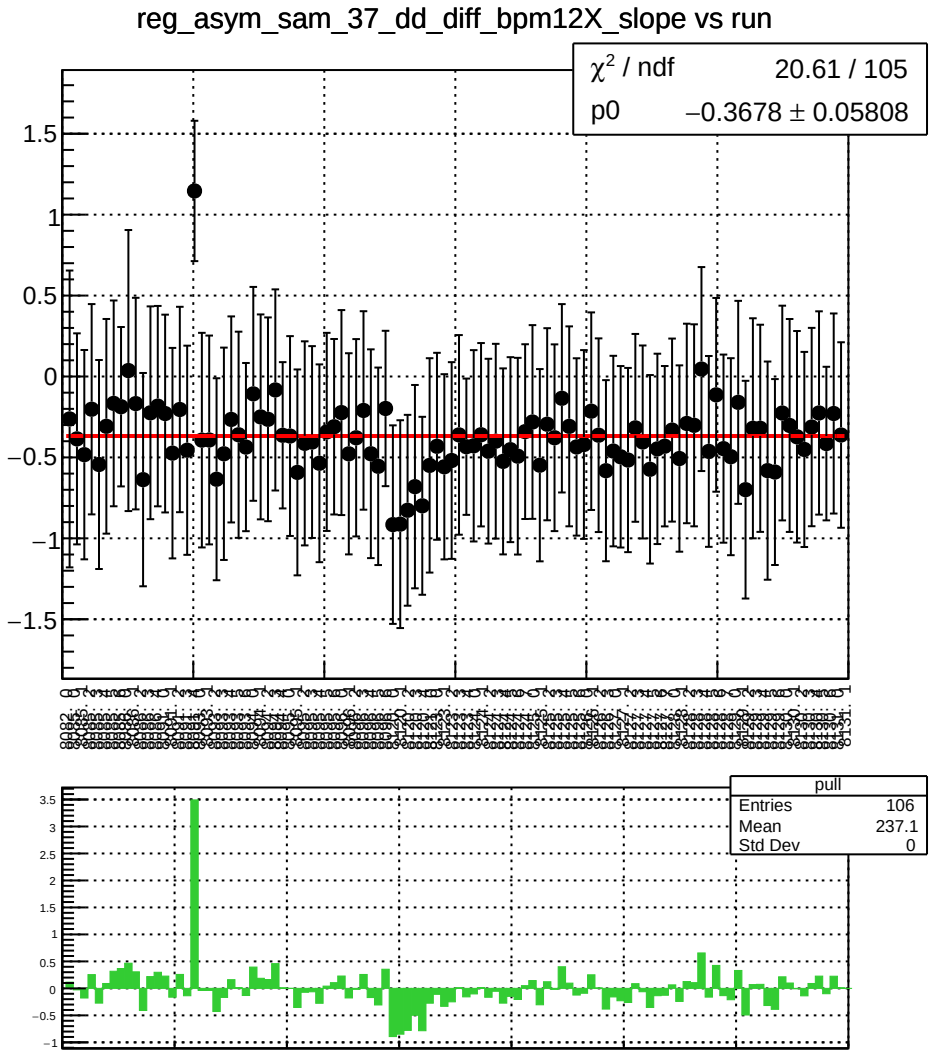

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 12.76 / 105
p0 −10.6 ± 1.424
pull
Entries 106
Mean −225.3
Std Dev 0
pull1D
Entries 106
Mean 0.007897
Std Dev 0.3468

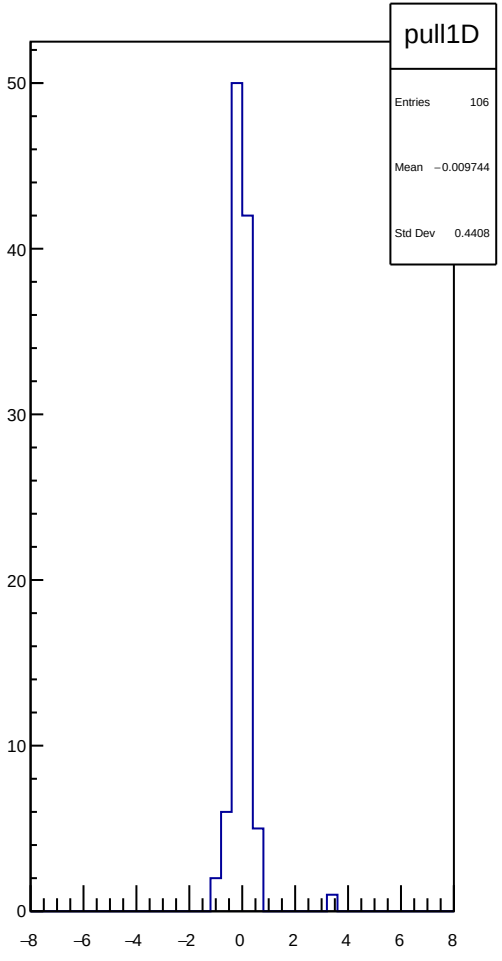

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.514 / 105
p0 −14.07 ± 0.9215
pull
Entries 106
Mean −1475
Std Dev 0

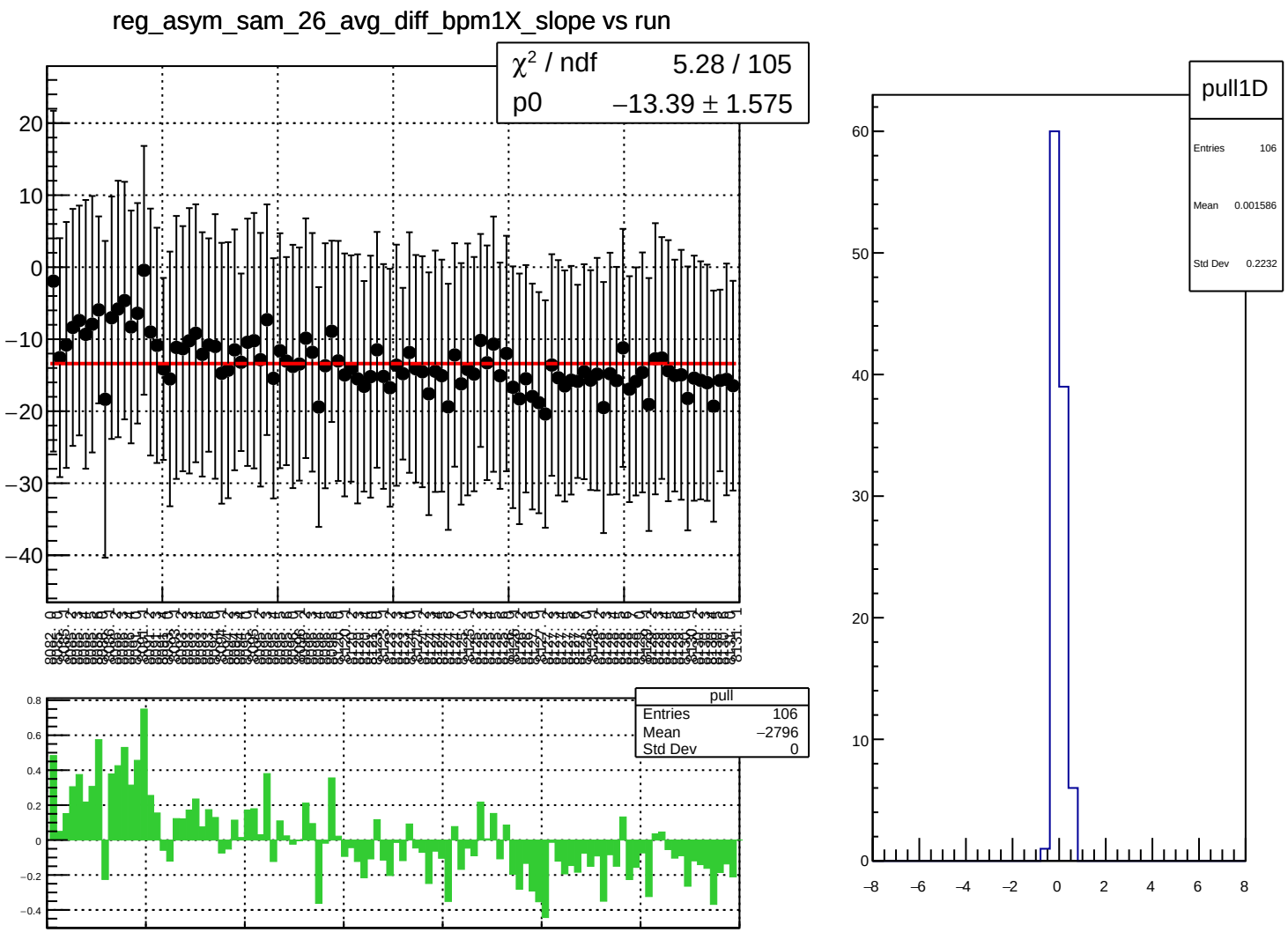

pull1D
Entries 106
Mean −0.002381
Std Dev 0.2479

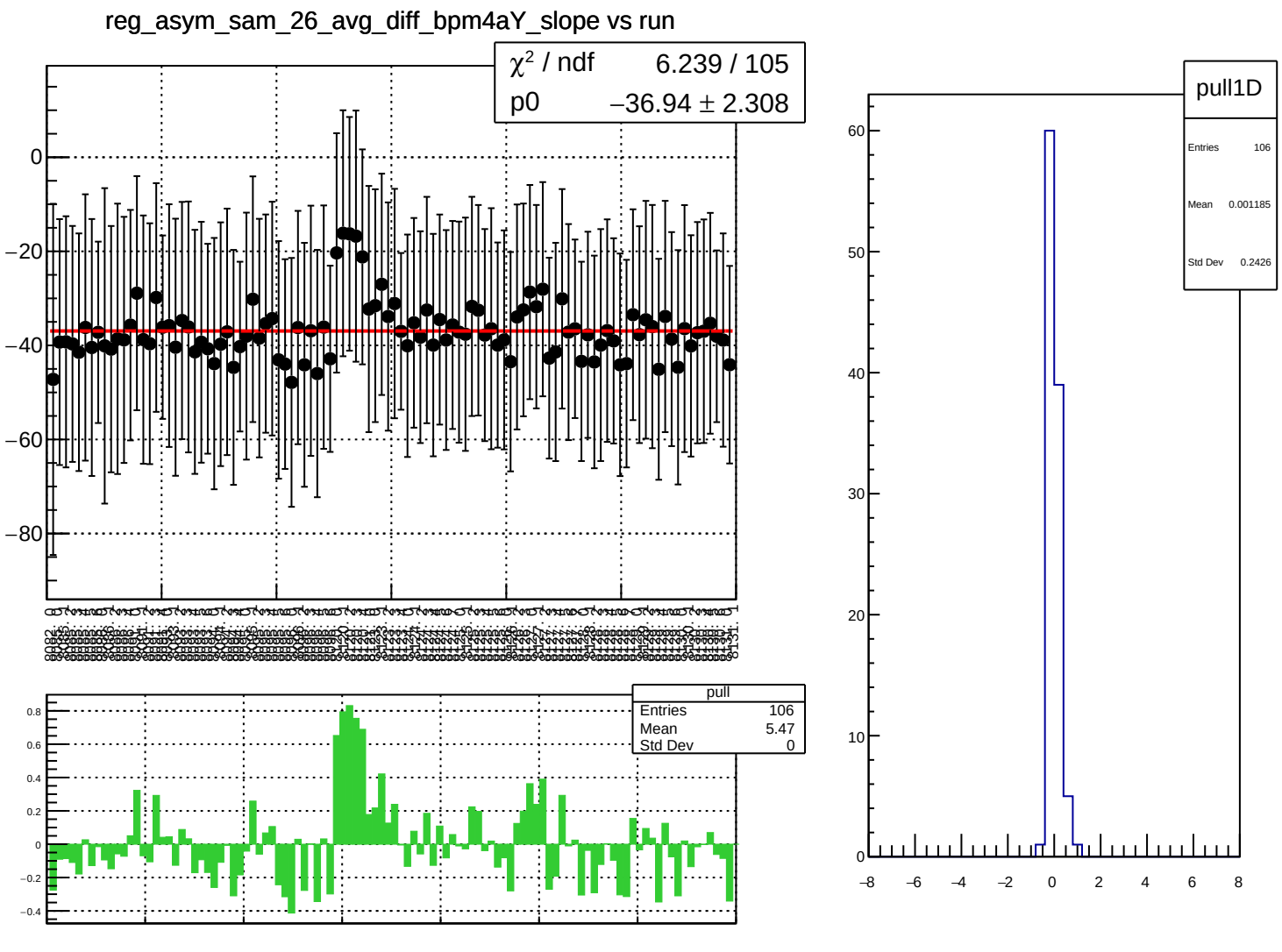

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 13.22 / 105
p0 22.11 ± 1.521
pull
Entries 106
Mean −246.3
Std Dev 0

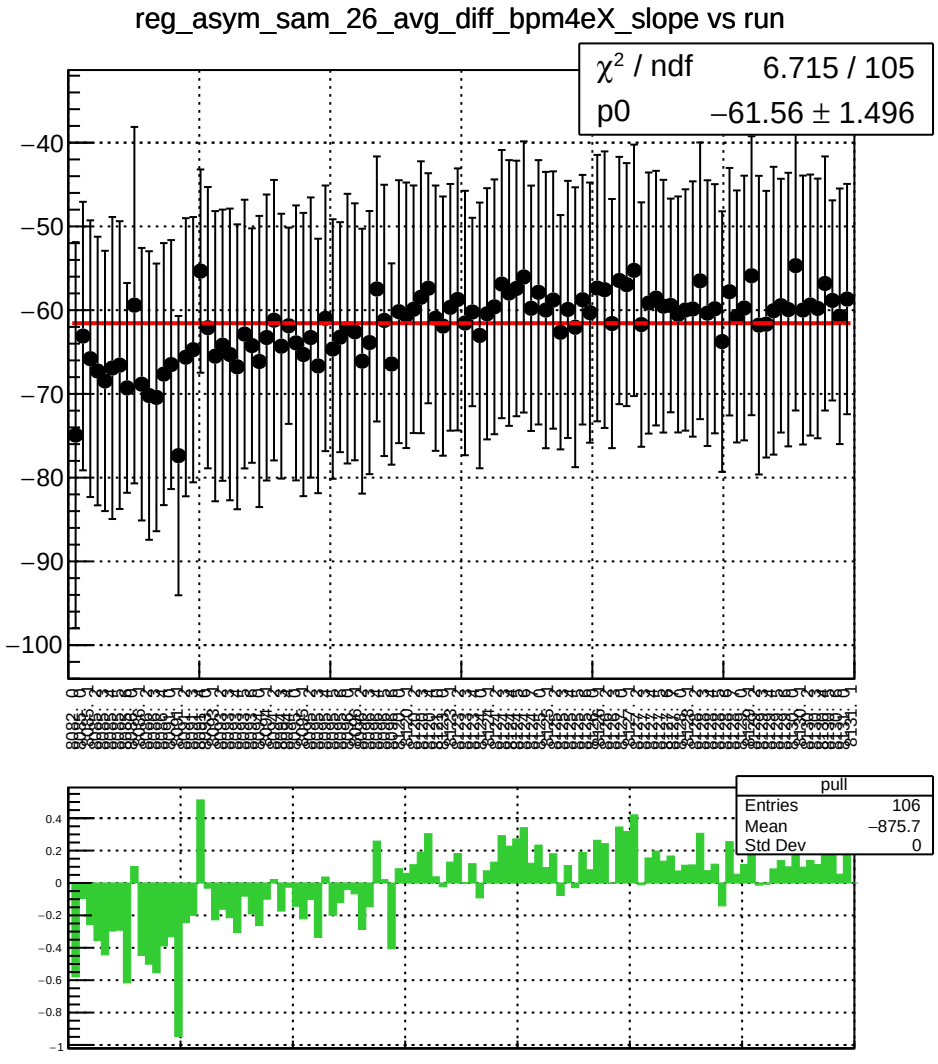

pull1D
Entries 106
Mean −0.00764
Std Dev 0.353

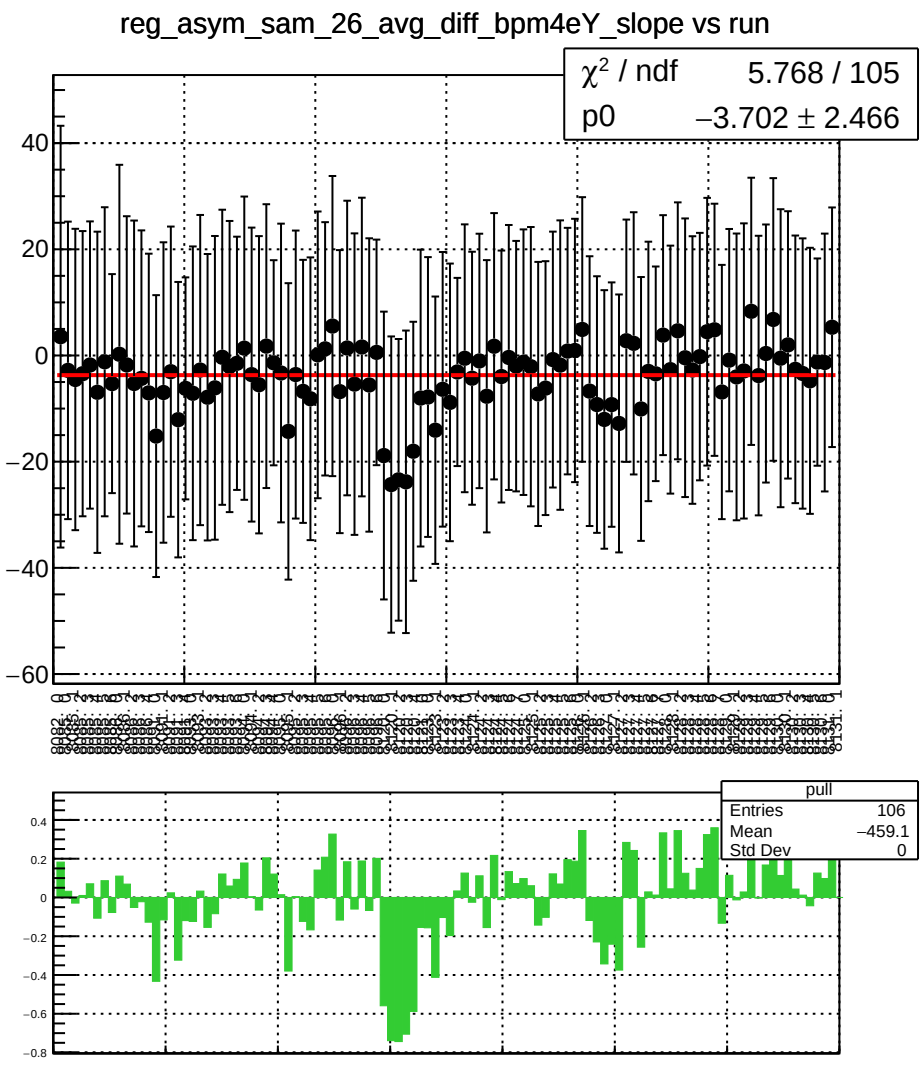

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 20.61 / 105
p0 −0.3678 ± 0.05808
pull
Entries 106
Mean 237.1
Std Dev 0

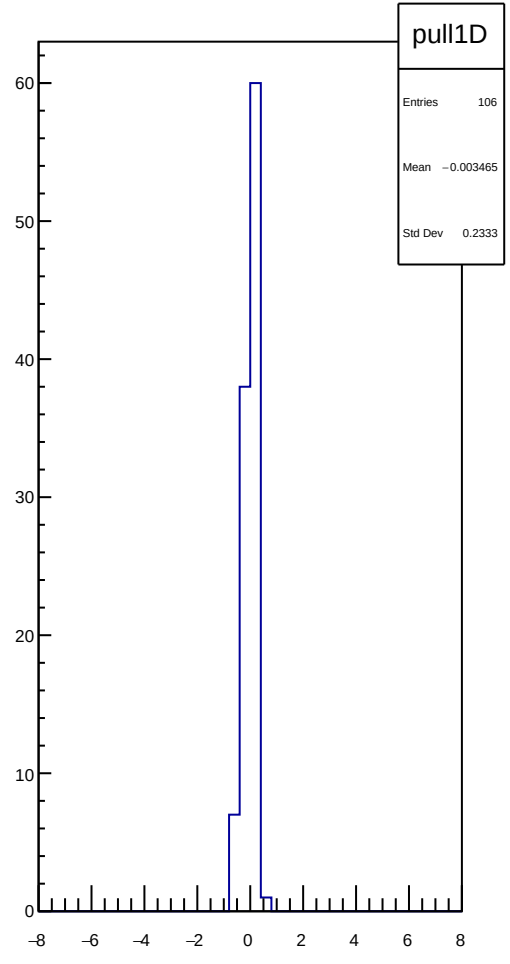

pull1D
Entries 106
Mean −0.009744
Std Dev 0.4408

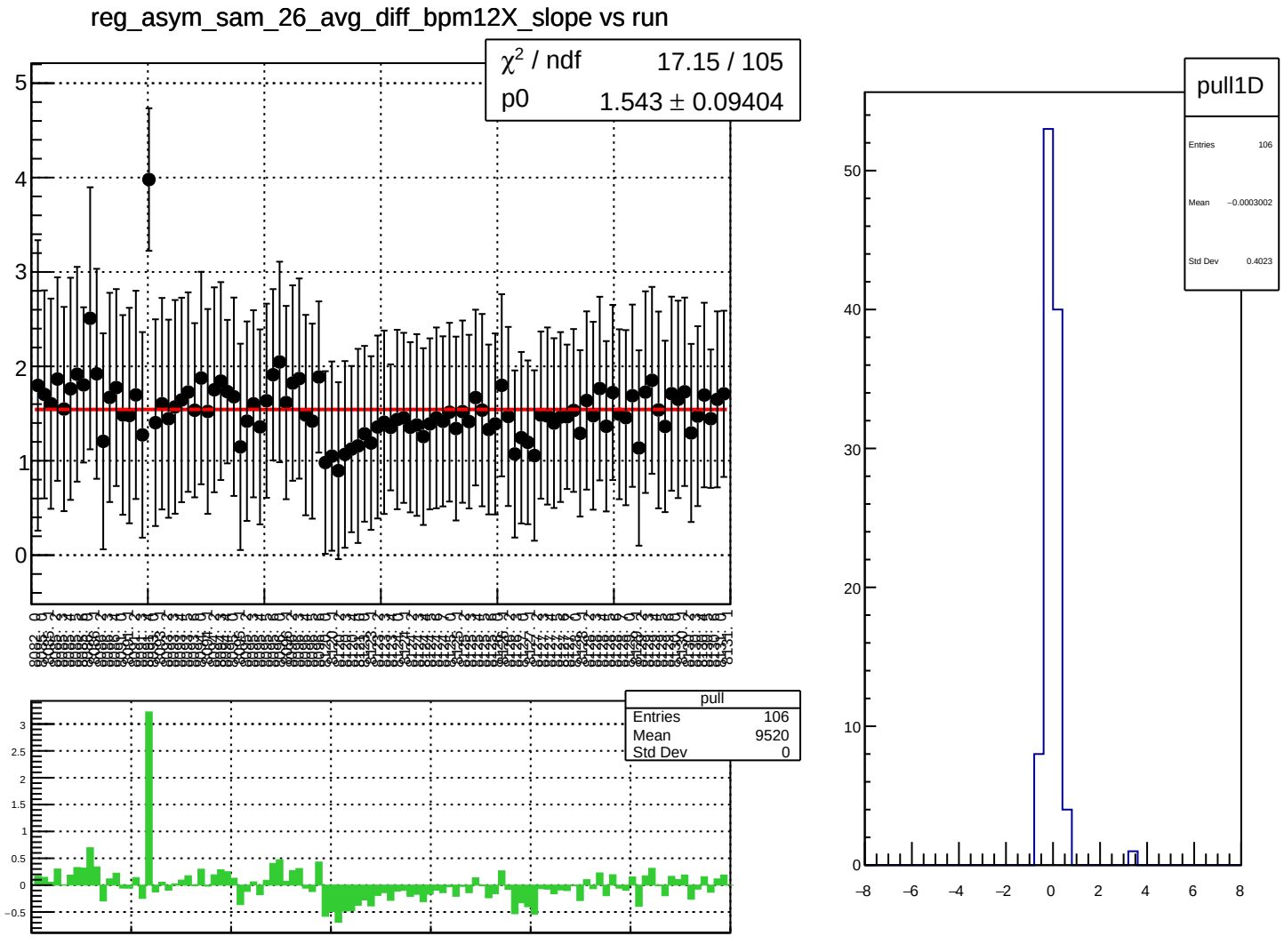

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 5.28 / 105
p0 −13.39 ± 1.575
pull
Entries 106
Mean −2796
Std Dev 0
pull1D
Entries 106
Mean 0.001586
Std Dev 0.2232

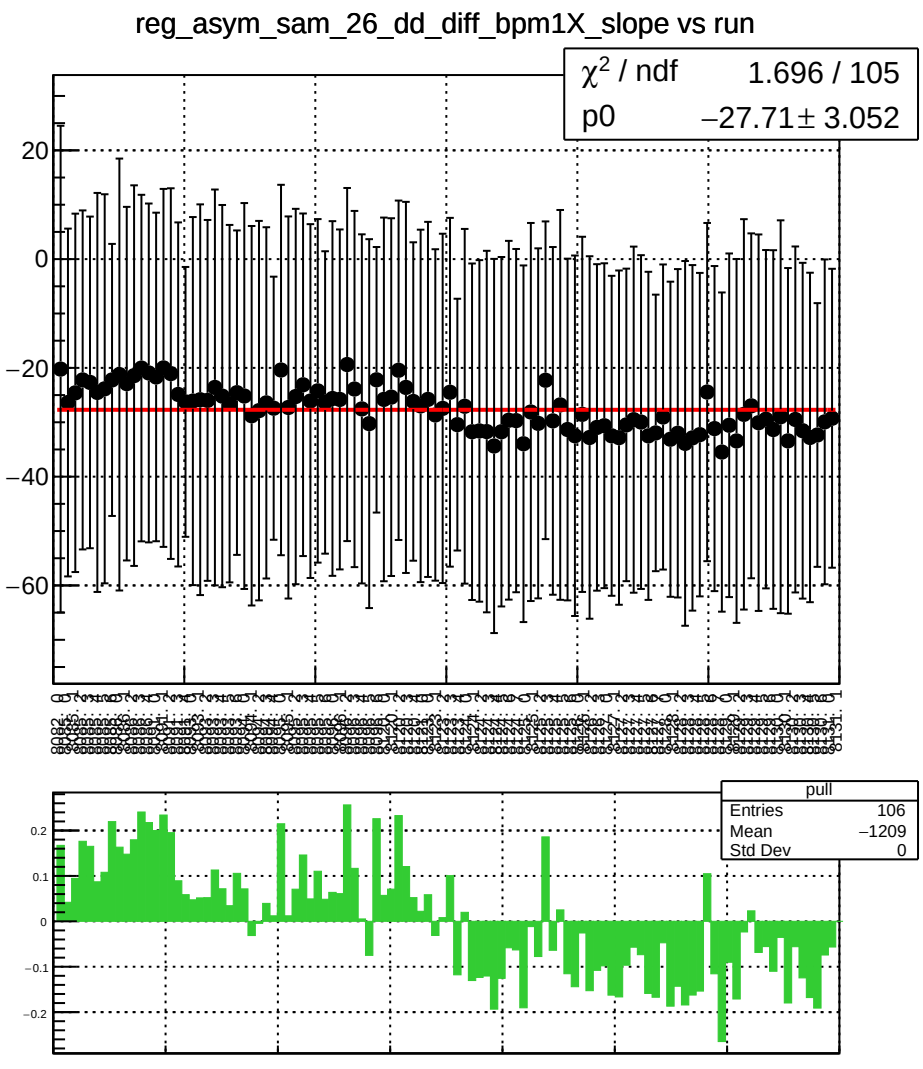

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.239 / 105
p0 −36.94 ± 2.308
0
−20
−40
−60
−80
pull
Entries 106
Mean 5.47
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 106
Mean 0.001185
Std Dev 0.2426
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

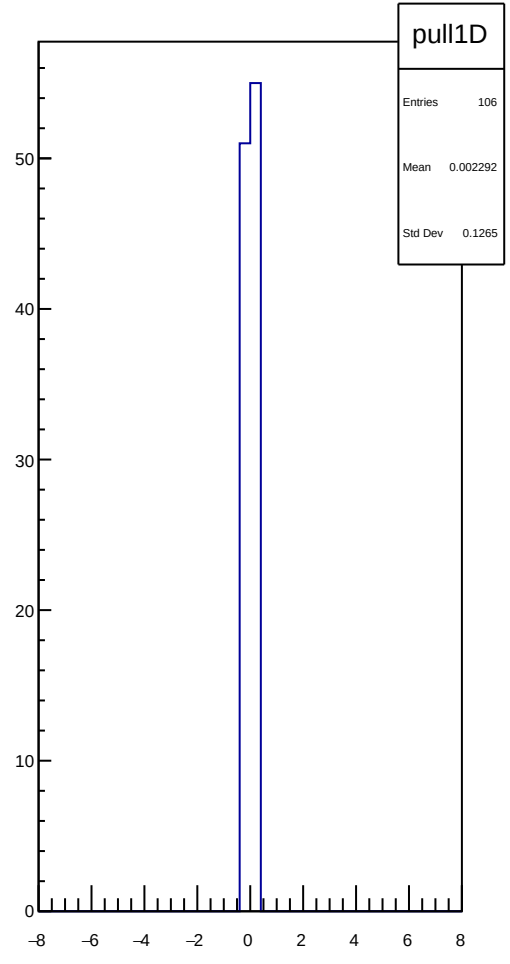

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.715 / 105
p0 −61.56 ± 1.496
pull
Entries 106
Mean −875.7
Std Dev 0
pull1D
Entries 106
Mean −0.005618
Std Dev 0.2516

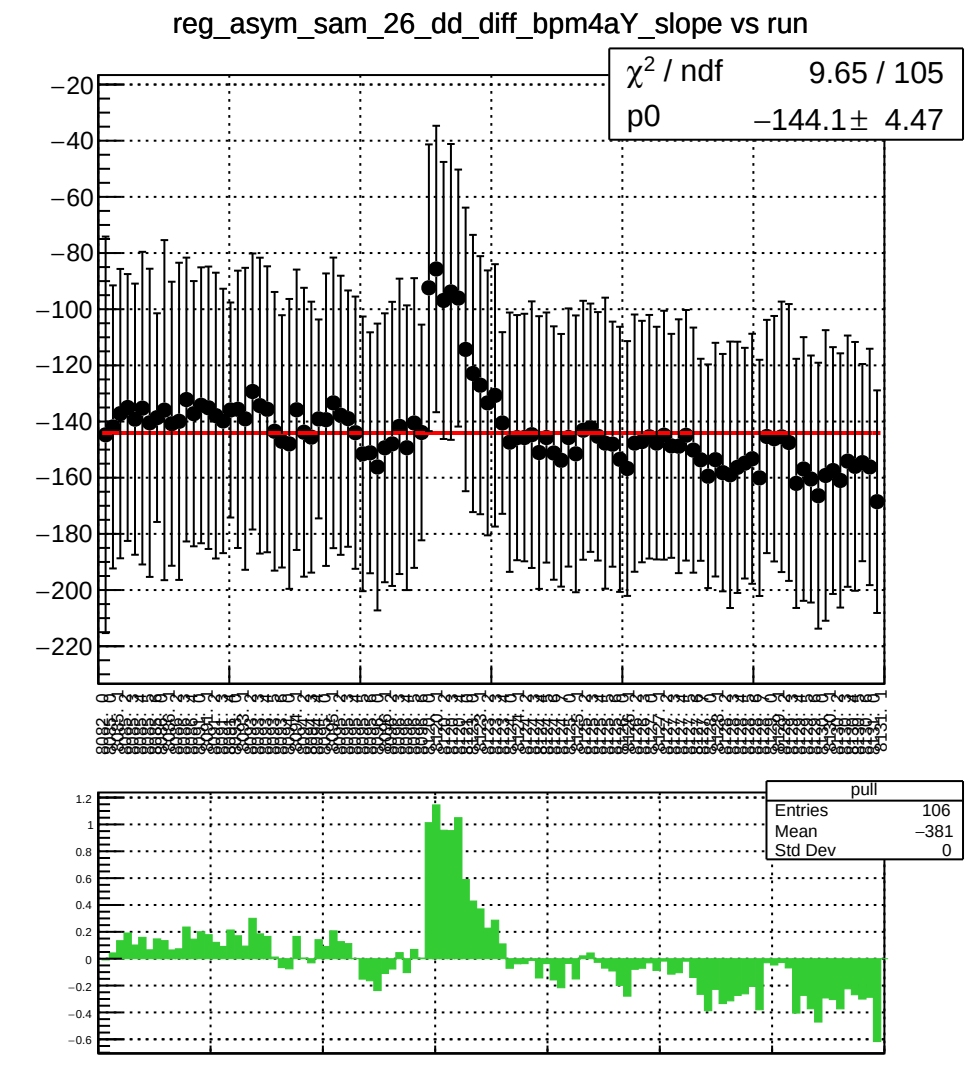

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.768 / 105
p0 −3.702 ± 2.466
pull
Entries 106
Mean −459.1
Std Dev 0

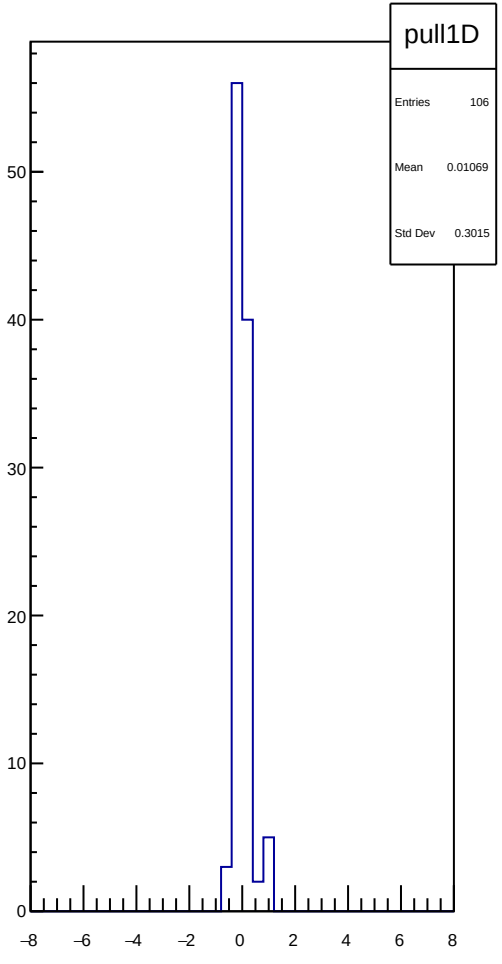

pull1D
Entries 106
Mean −0.003465
Std Dev 0.2333

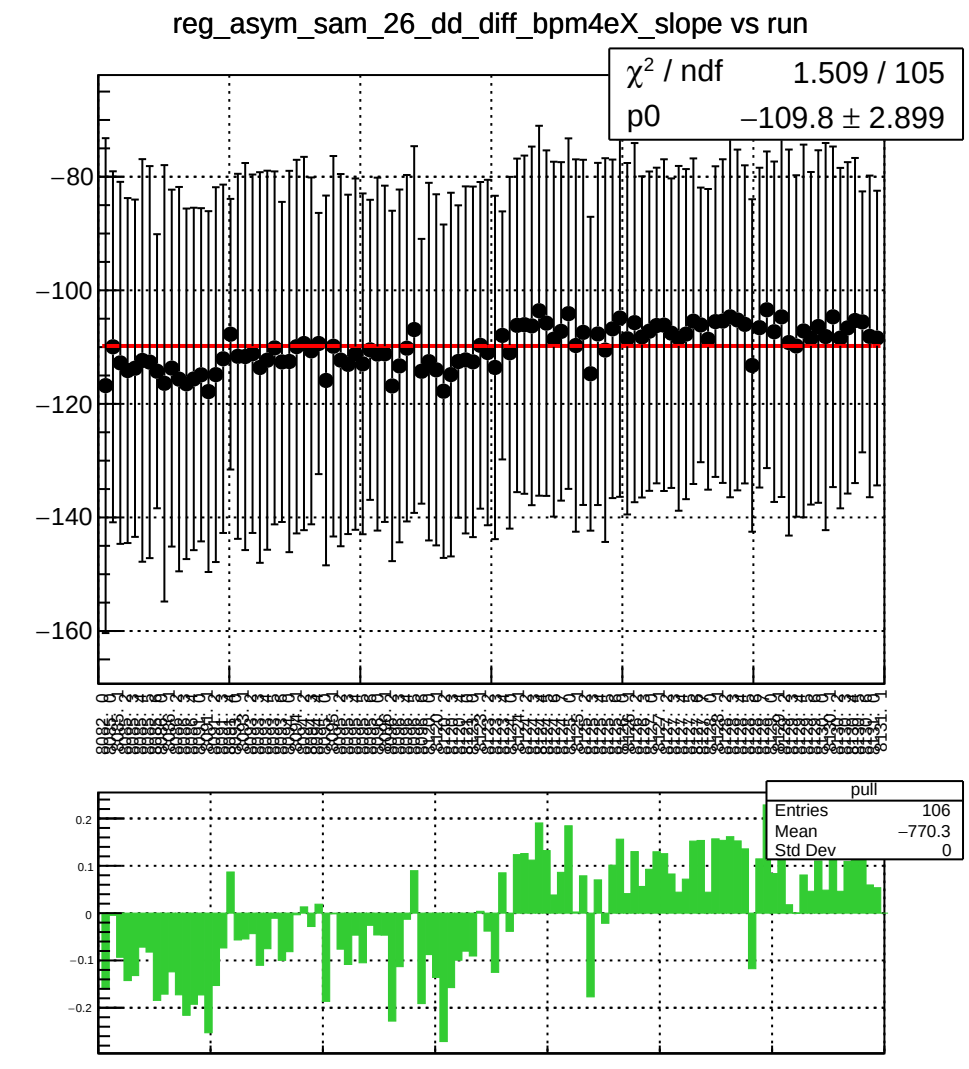

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 17.15 / 105
p0 1.543 ± 0.09404
pull
Entries 106
Mean 9520
Std Dev 0
pull1D
Entries 106
Mean −0.0003002
Std Dev 0.4023

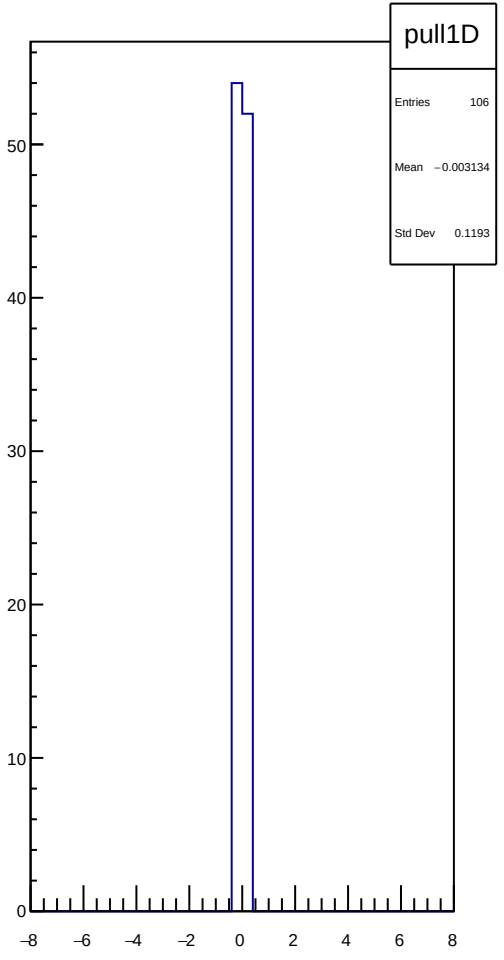

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 1.696 / 105
p0 −27.71± 3.052
20
0
−20
−40
−60
pull
Entries 106
Mean −1209
Std Dev 0
0.2
0.1
0
−0.1
−0.2

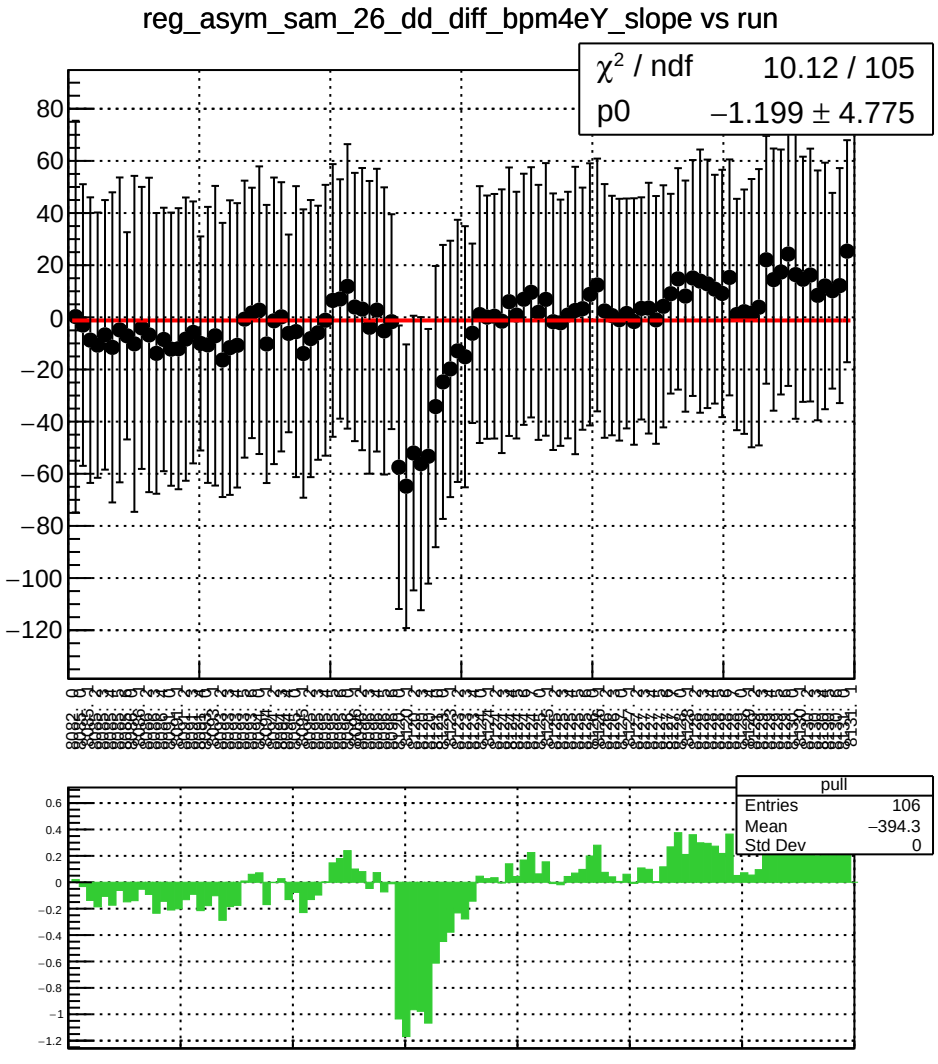

pull1D
Entries 106
Mean 0.002292
Std Dev 0.1265
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

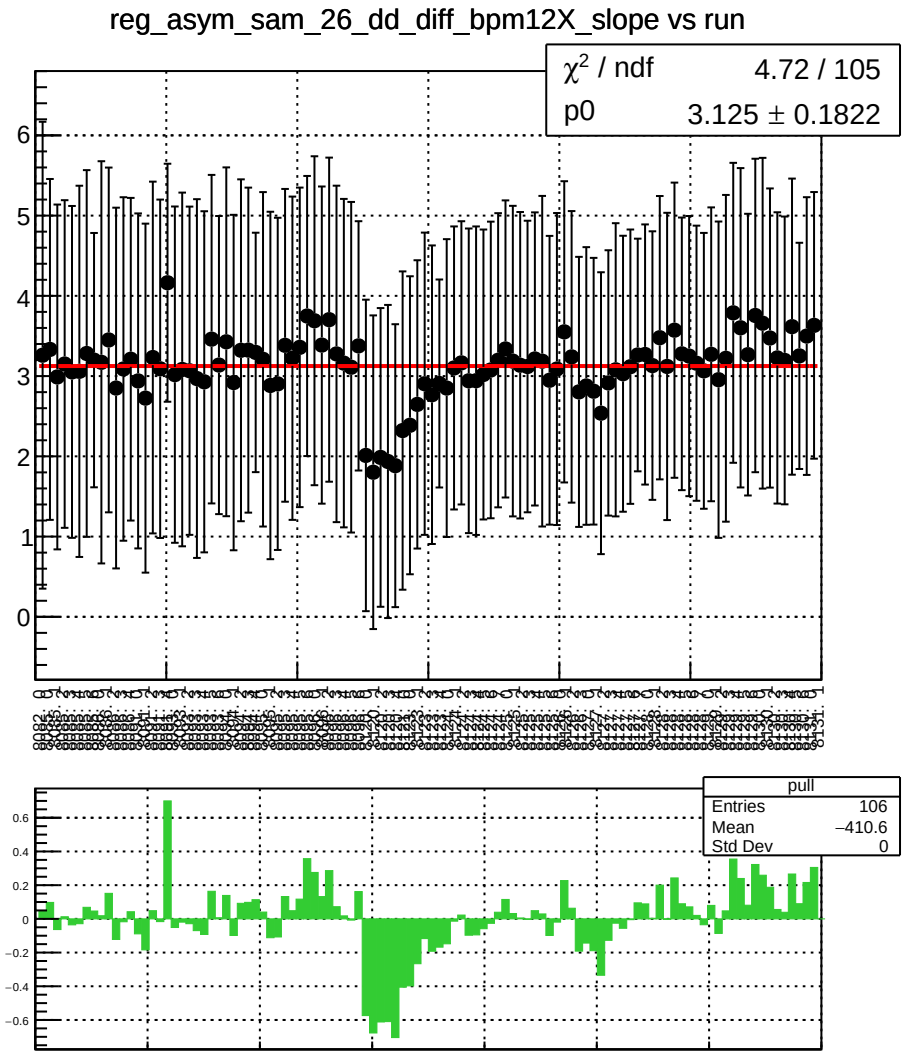

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.65 / 105
p0 −144.1± 4.47
pull
Entries 106
Mean −381
Std Dev 0

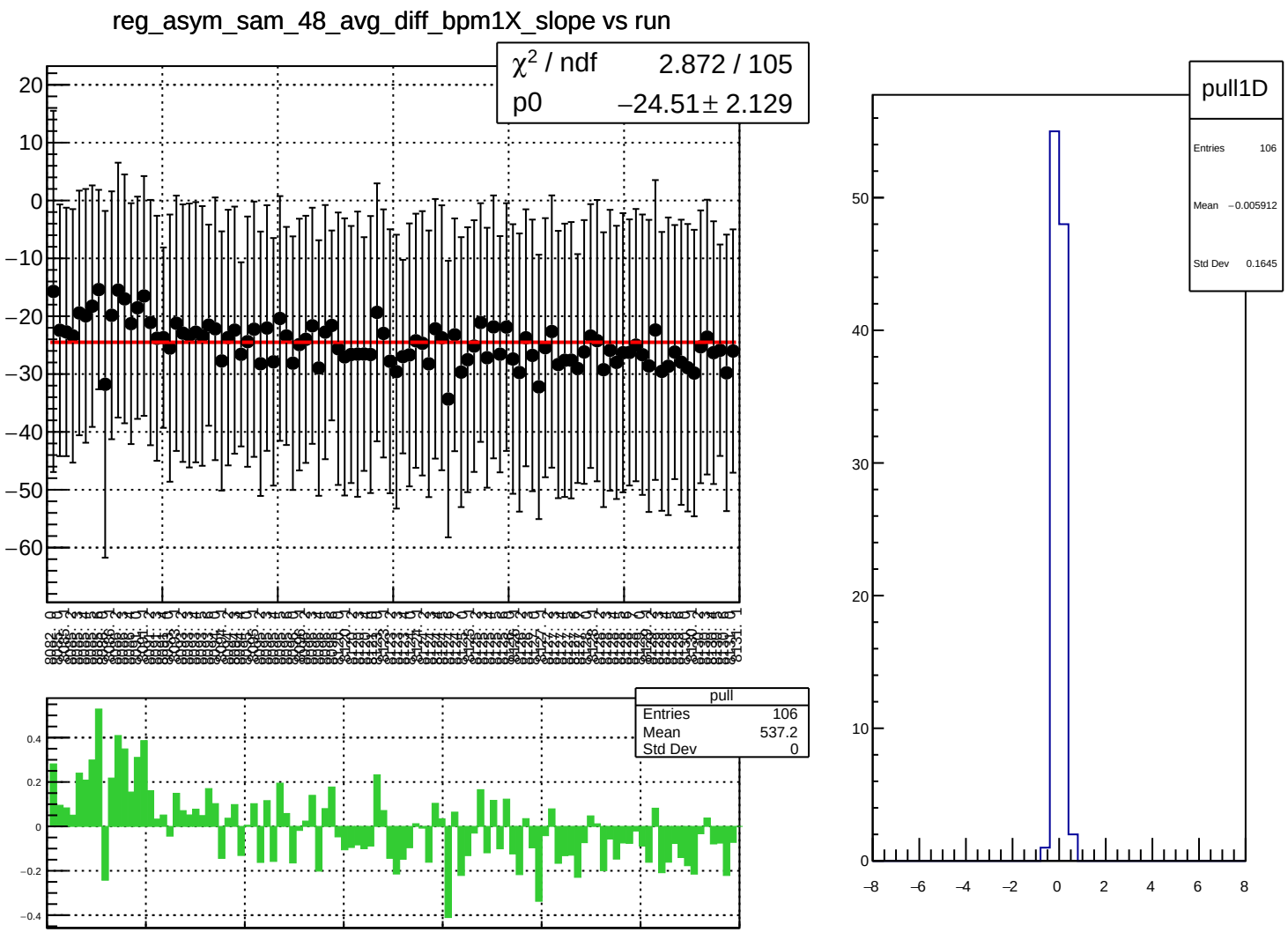

pull1D
Entries 106
Mean 0.01069
Std Dev 0.3015

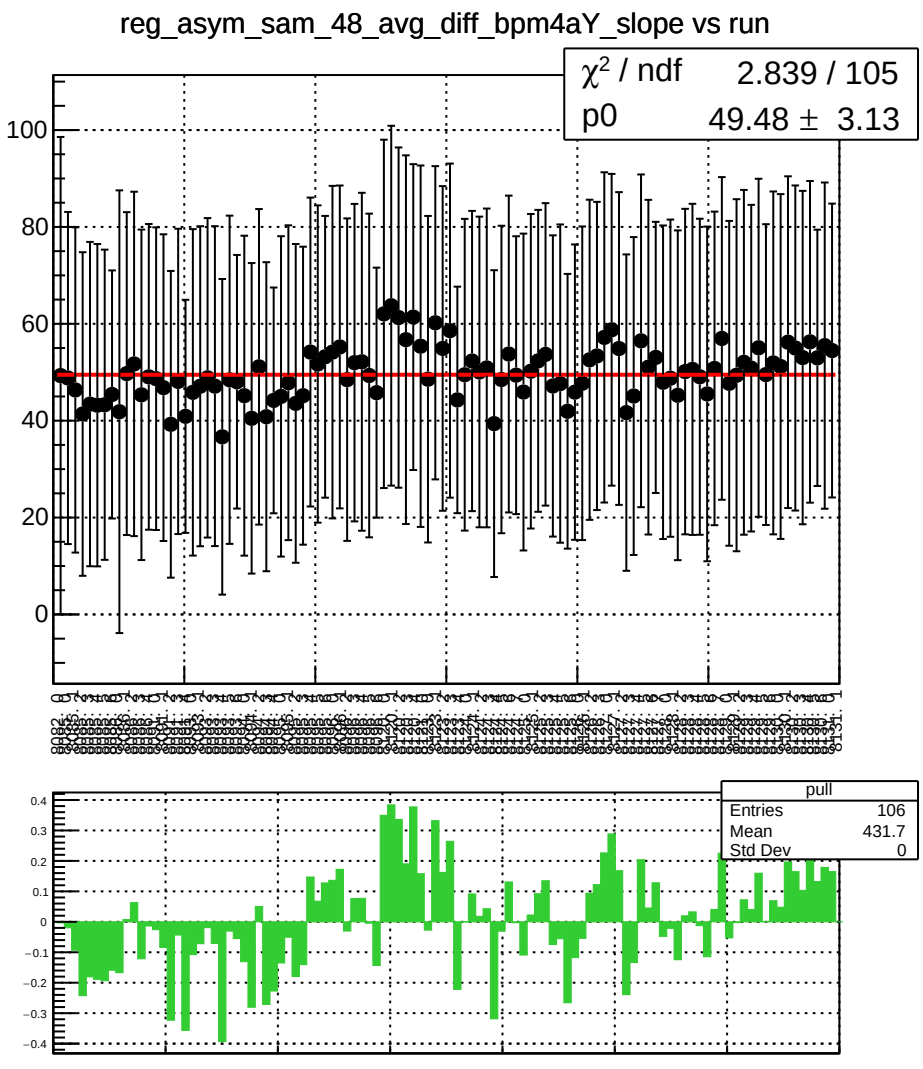

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.509 / 105
p0 −109.8 ± 2.899
−80
−100
−120
−140
−160
pull
Entries 106
Mean −770.3
Std Dev 0
0.2
0.1
0
−0.1
−0.2

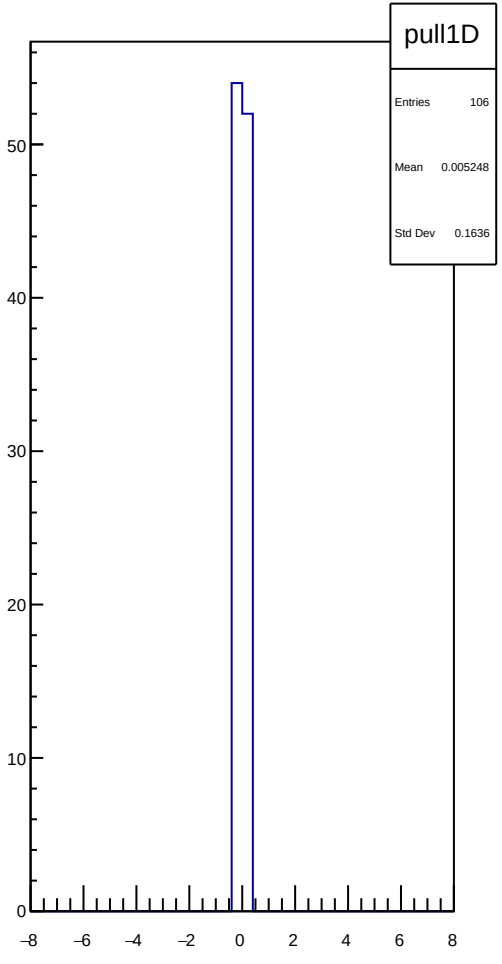

pull1D
Entries 106
Mean −0.003134
Std Dev 0.1193
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

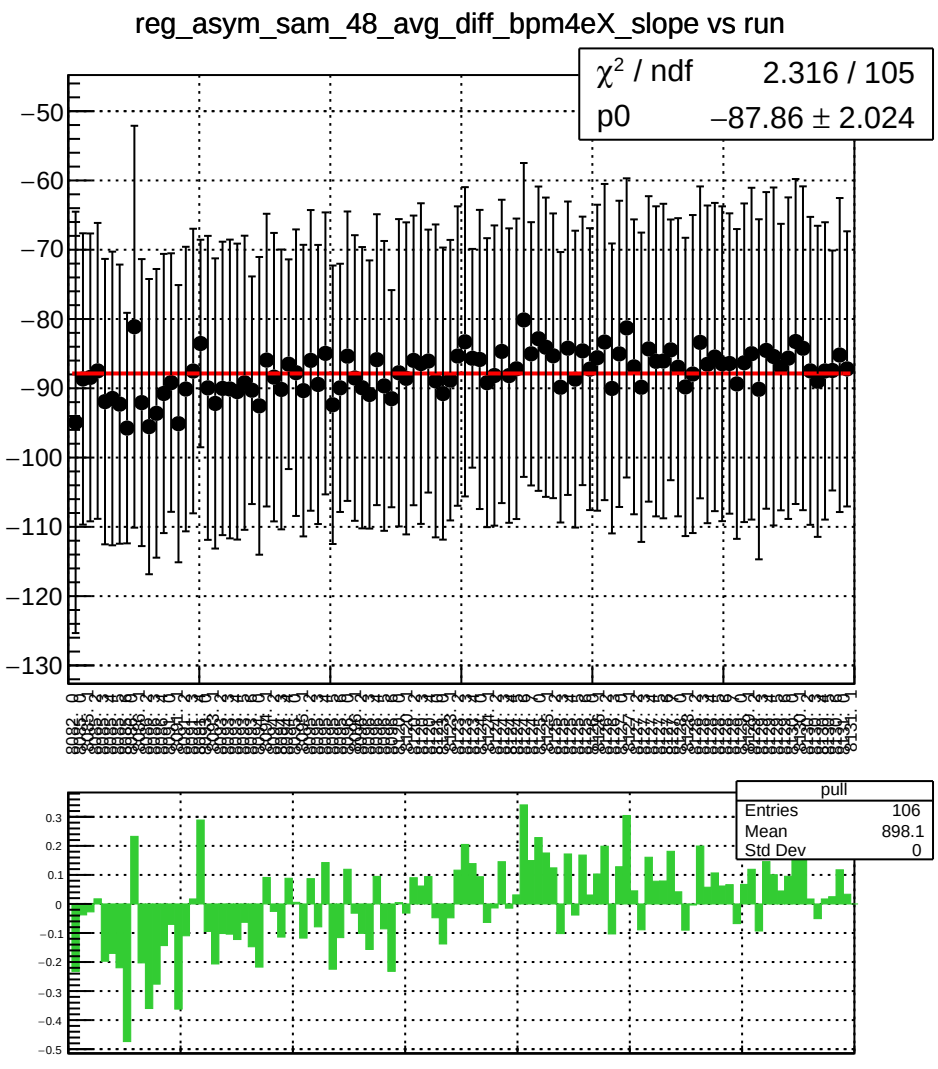

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.12 / 105
p0 −1.199 ± 4.775
pull
Entries 106
Mean −394.3
Std Dev 0
pull1D
Entries 106
Mean −0.01068
Std Dev 0.3088

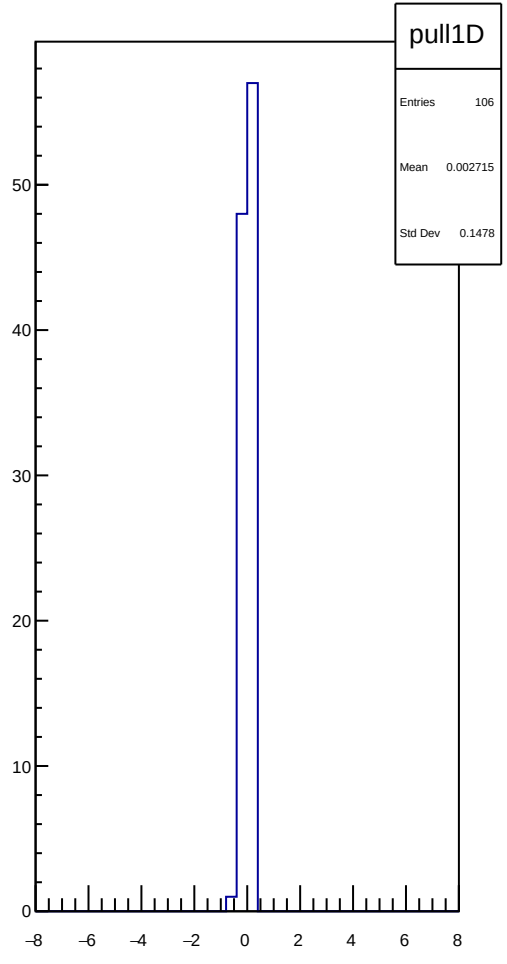

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 4.72 / 105
p0 3.125 ± 0.1822
pull
Entries 106
Mean −410.6
Std Dev 0
pull1D
Entries 106
Mean −0.001844
Std Dev 0.211

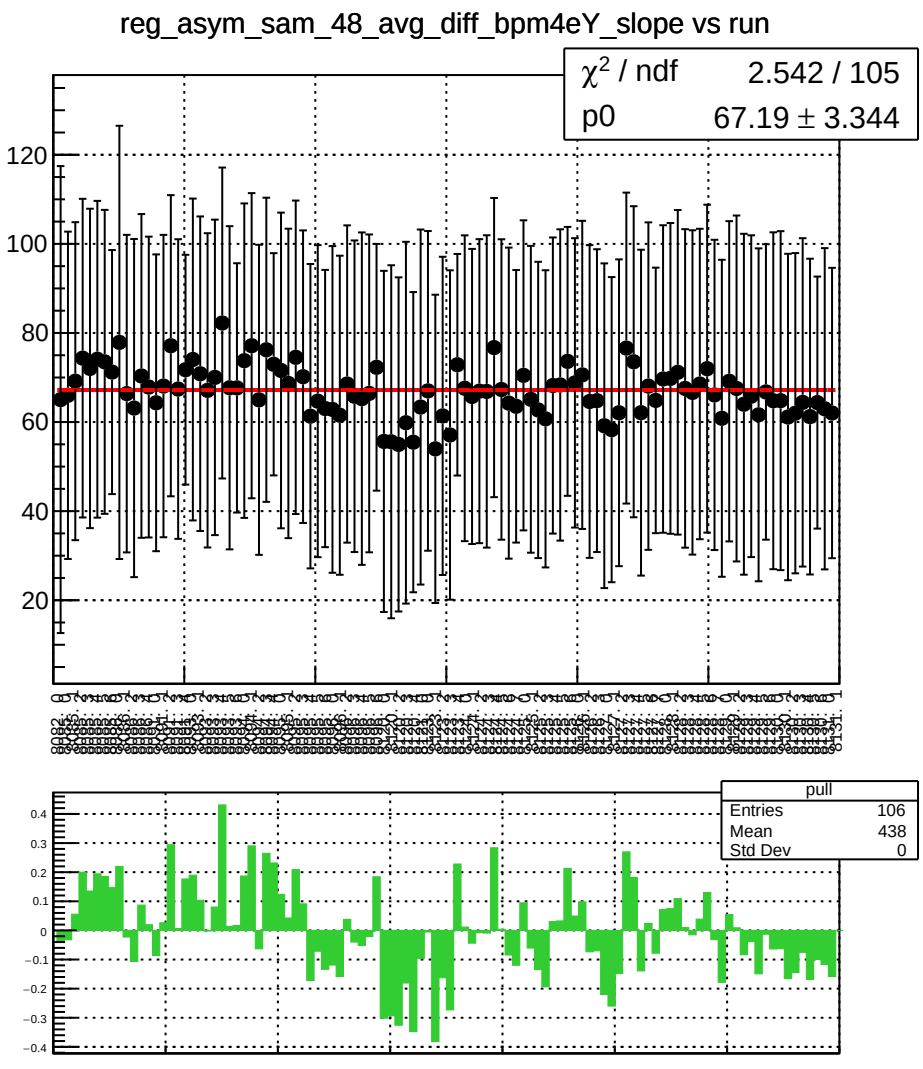

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 2.872 / 105
p0 −24.51 ± 2.129
pull
Entries 106
Mean 537.2
Std Dev 0
pull1D
Entries 106
Mean −0.005912
Std Dev 0.1645

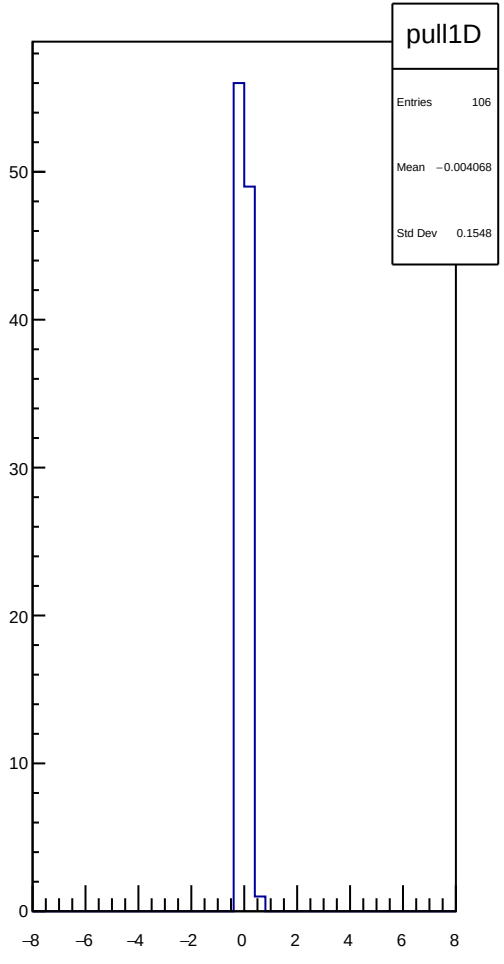

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.839 / 105
p0 49.48 ± 3.13
pull
Entries 106
Mean 431.7
Std Dev 0

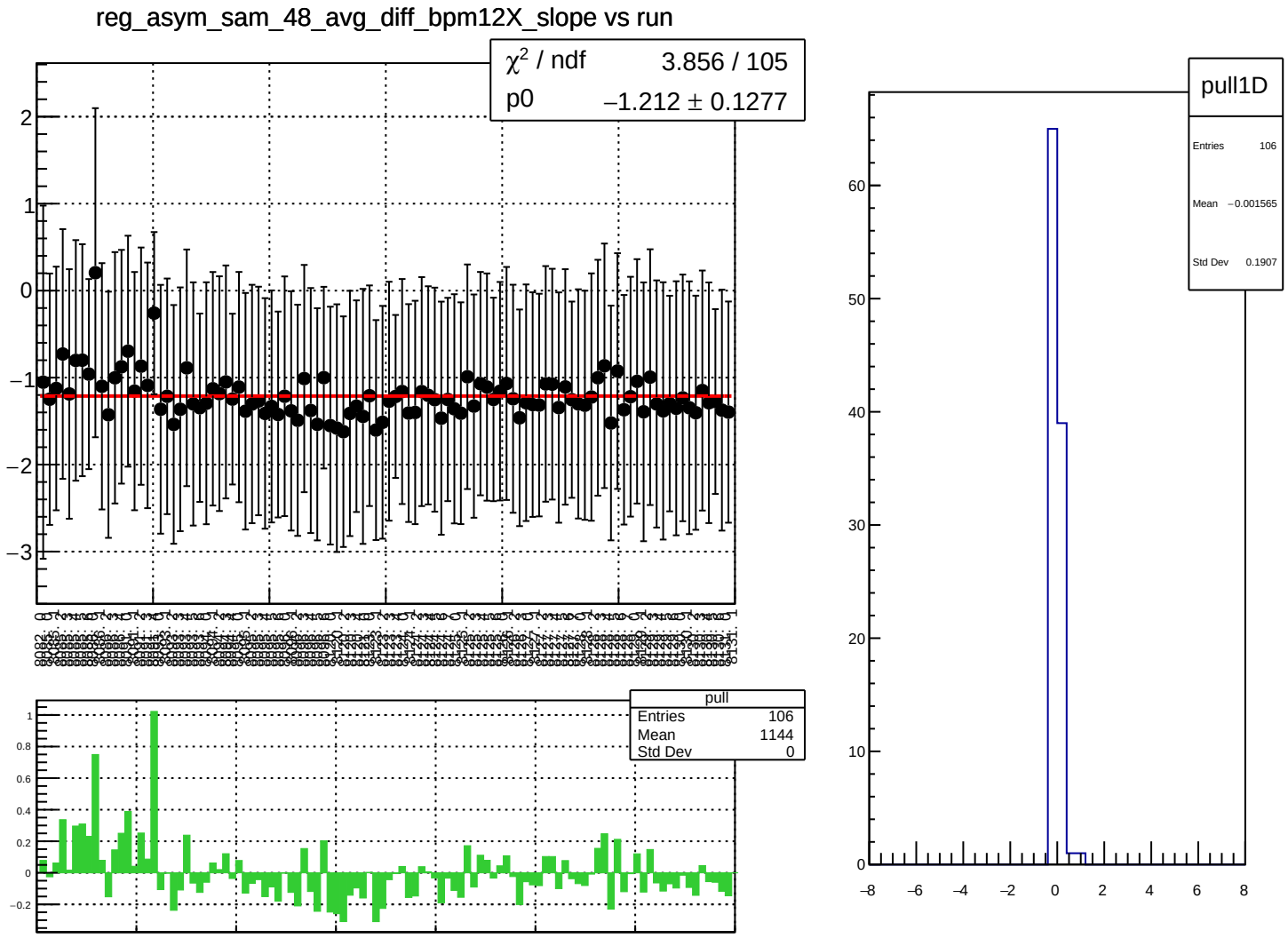

pull1D
Entries 106
Mean 0.005248
Std Dev 0.1636

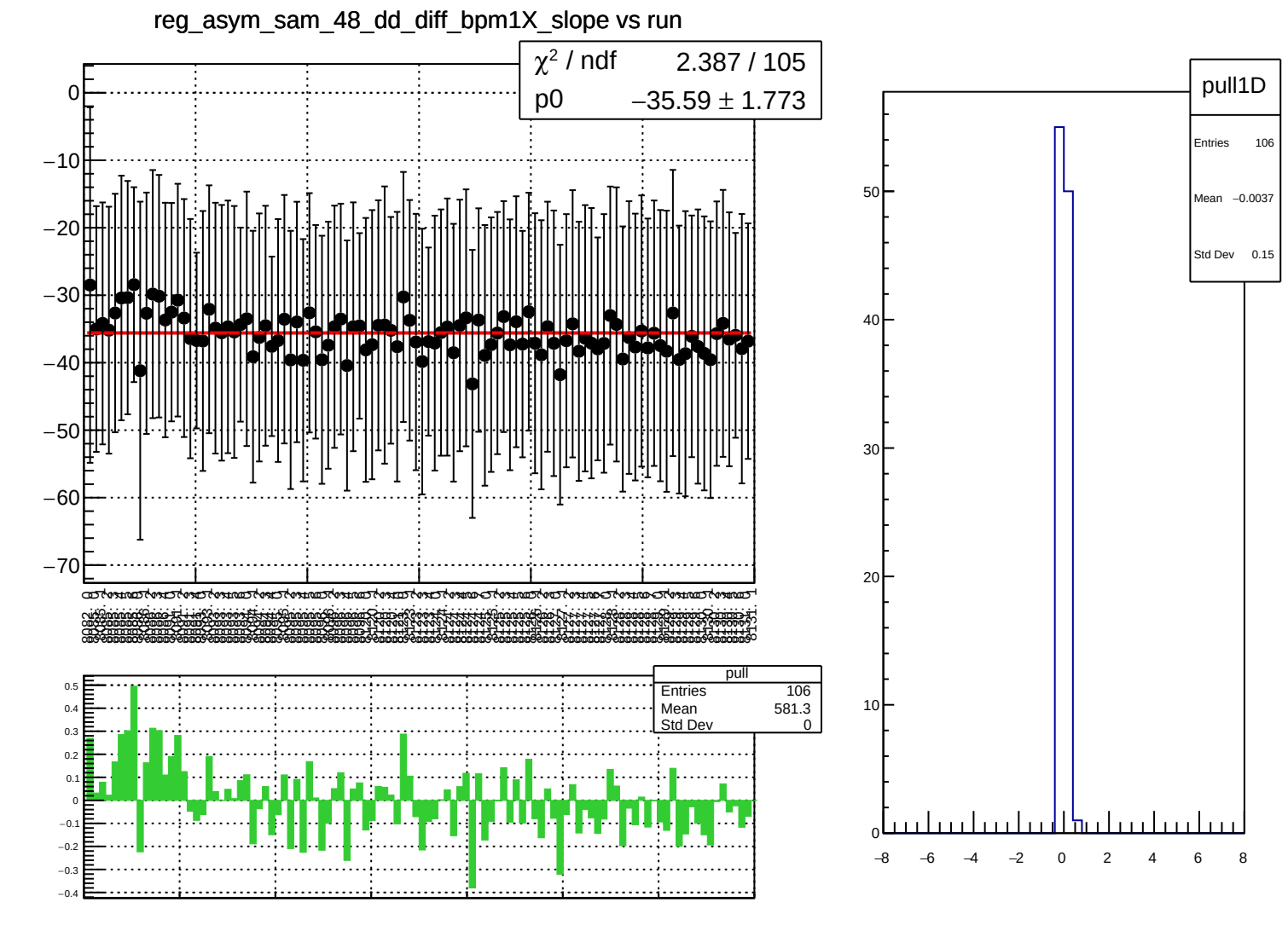

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 2.316 / 105
p0 −87.86 ± 2.024
pull
Entries 106
Mean 898.1
Std Dev 0

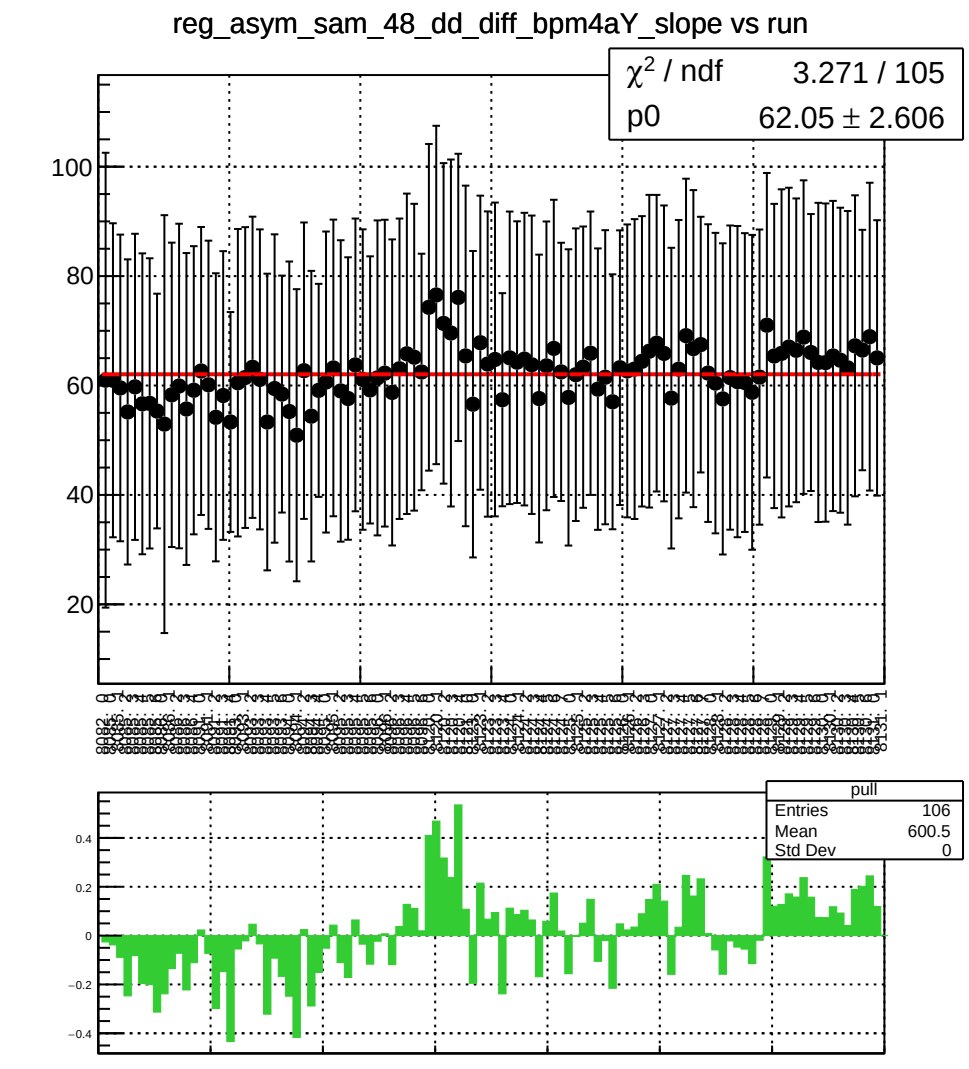

pull1D
Entries 106
Mean 0.002715
Std Dev 0.1478

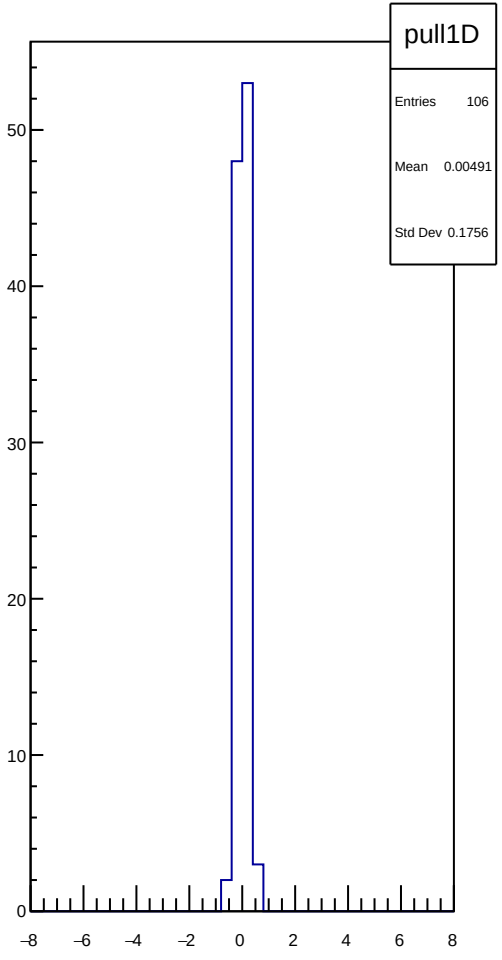

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.542 / 105
p0 67.19 ± 3.344
120
100
80
60
40
20
pull
Entries 106
Mean 438
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

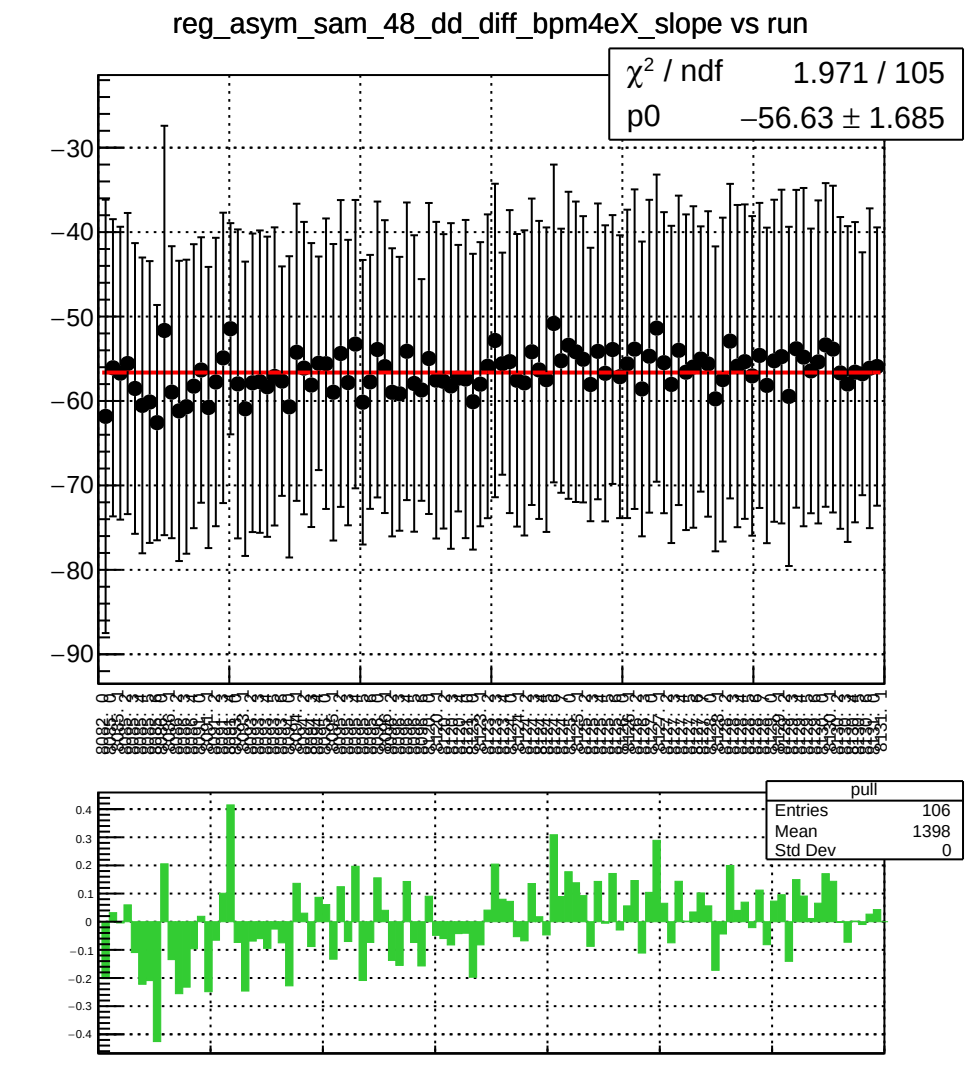

pull1D
Entries 106
Mean −0.004068
Std Dev 0.1548
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

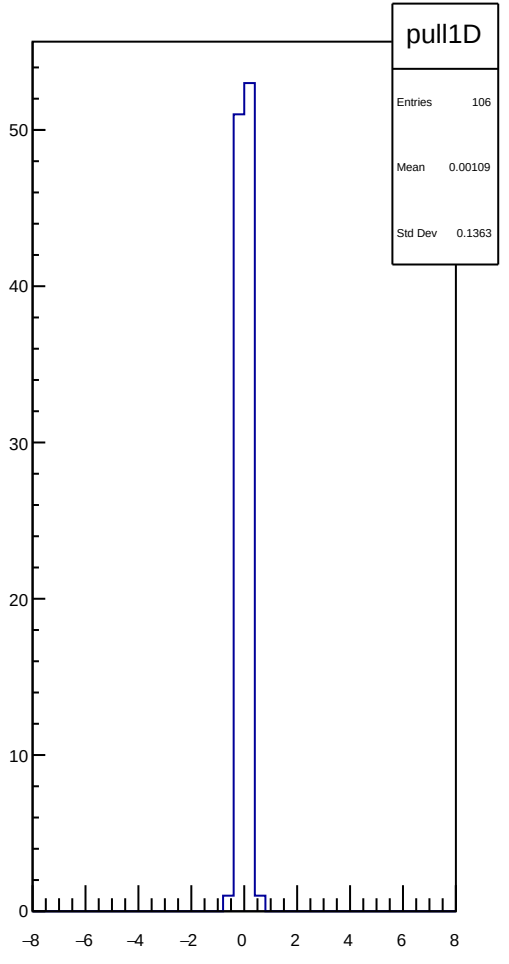

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 3.856 / 105
p0 −1.212 ± 0.1277
pull
Entries 106
Mean 1144
Std Dev 0
pull1D
Entries 106
Mean −0.001565
Std Dev 0.1907

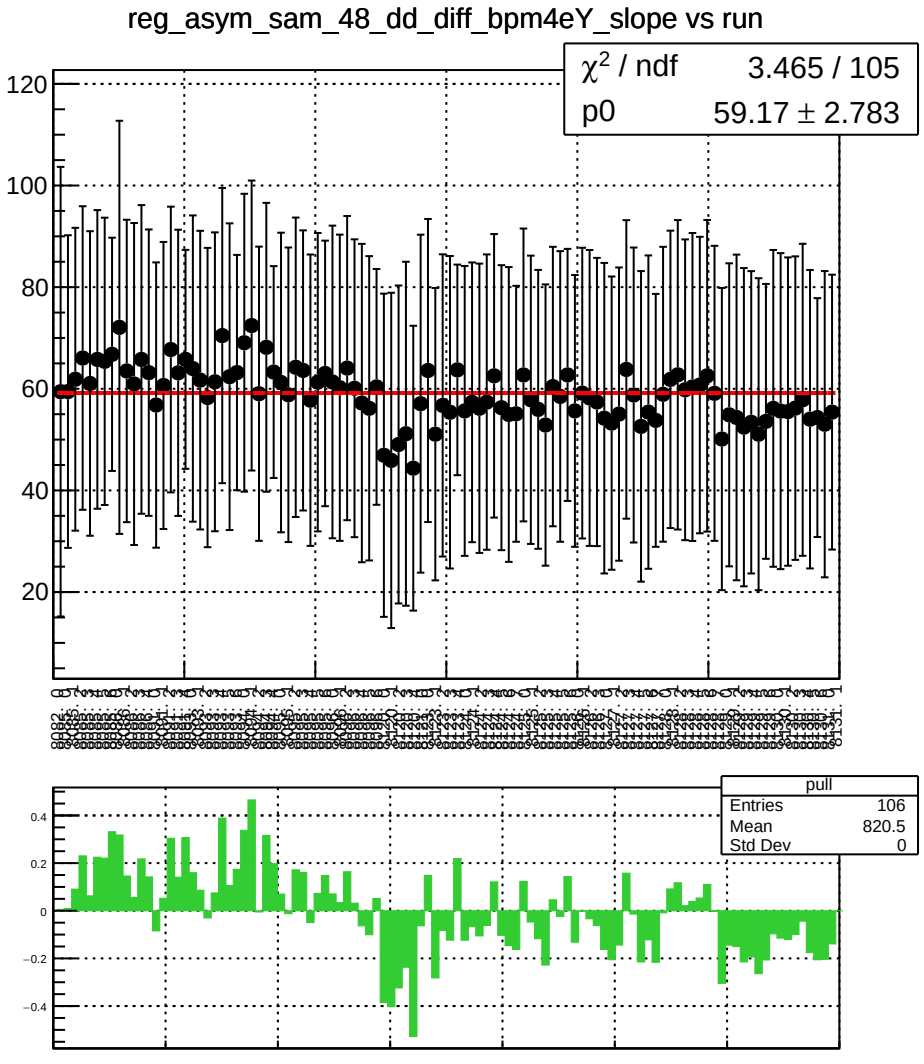

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 2.387 / 105
p0 −35.59 ± 1.773
pull
Entries 106
Mean 581.3
Std Dev 0
pull1D
Entries 106
Mean −0.0037
Std Dev 0.15

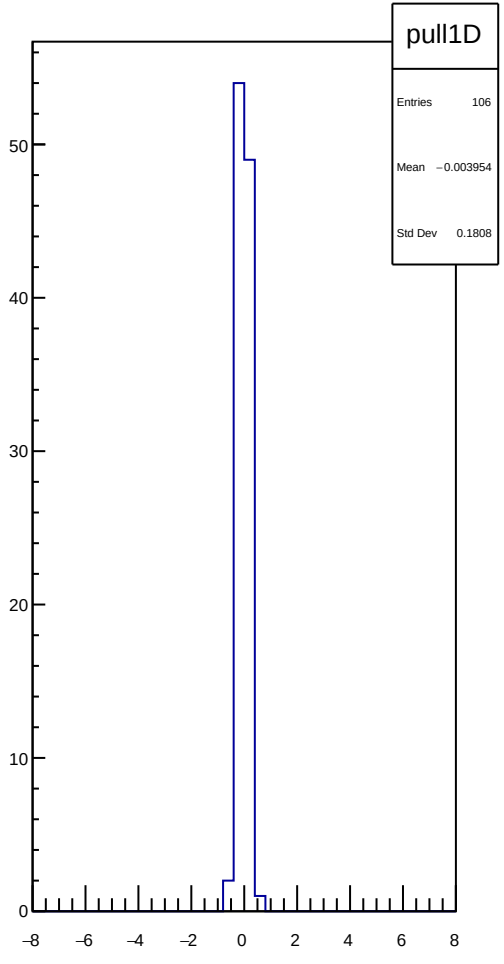

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.271 / 105
p0 62.05 ± 2.606
100
80
60
40
20
pull
Entries 106
Mean 600.5
Std Dev 0
0.4
0.2
0
−0.2
−0.4

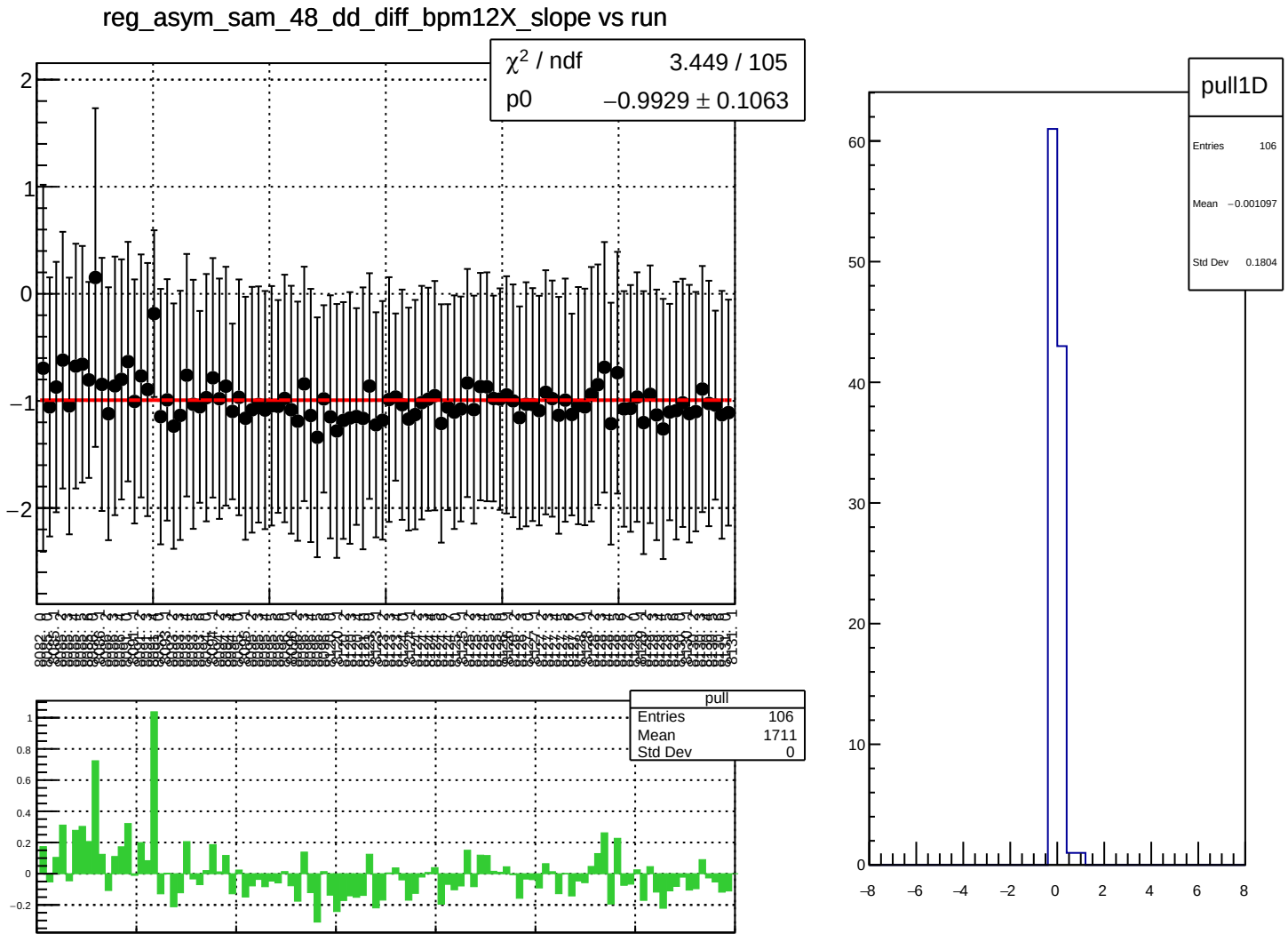

pull1D
Entries 106
Mean 0.00491
Std Dev 0.1756
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

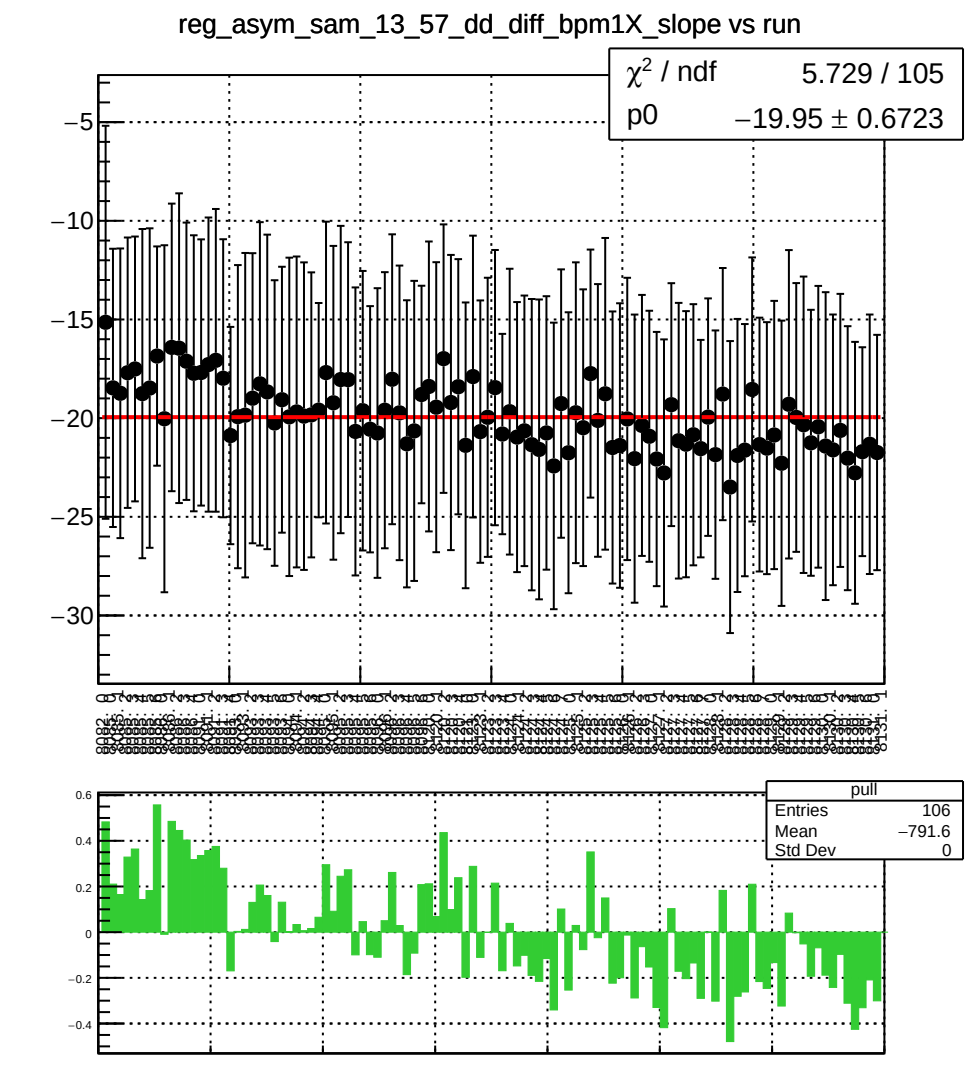

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.971 / 105
p0 −56.63 ± 1.685
−30
−40
−50
−60
−70
−80
−90
pull
Entries 106
Mean 1398
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

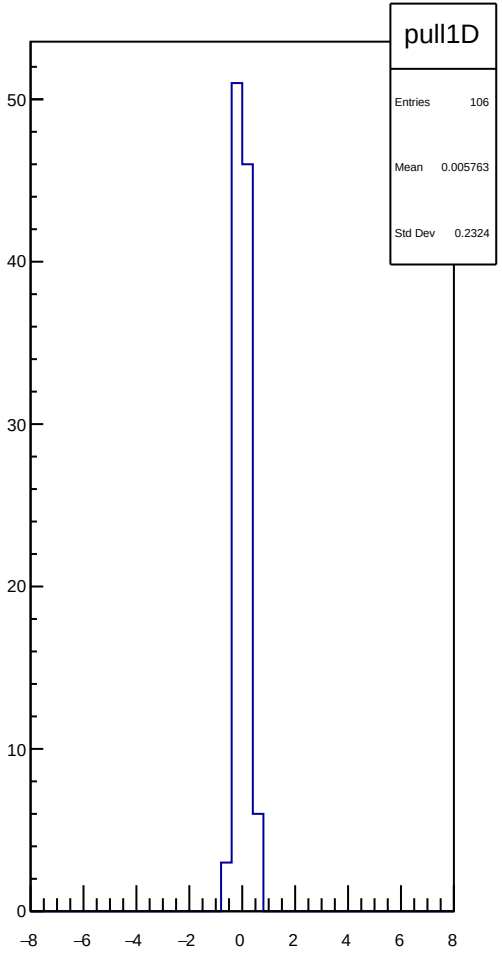

pull1D
Entries 106
Mean 0.00109
Std Dev 0.1363
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

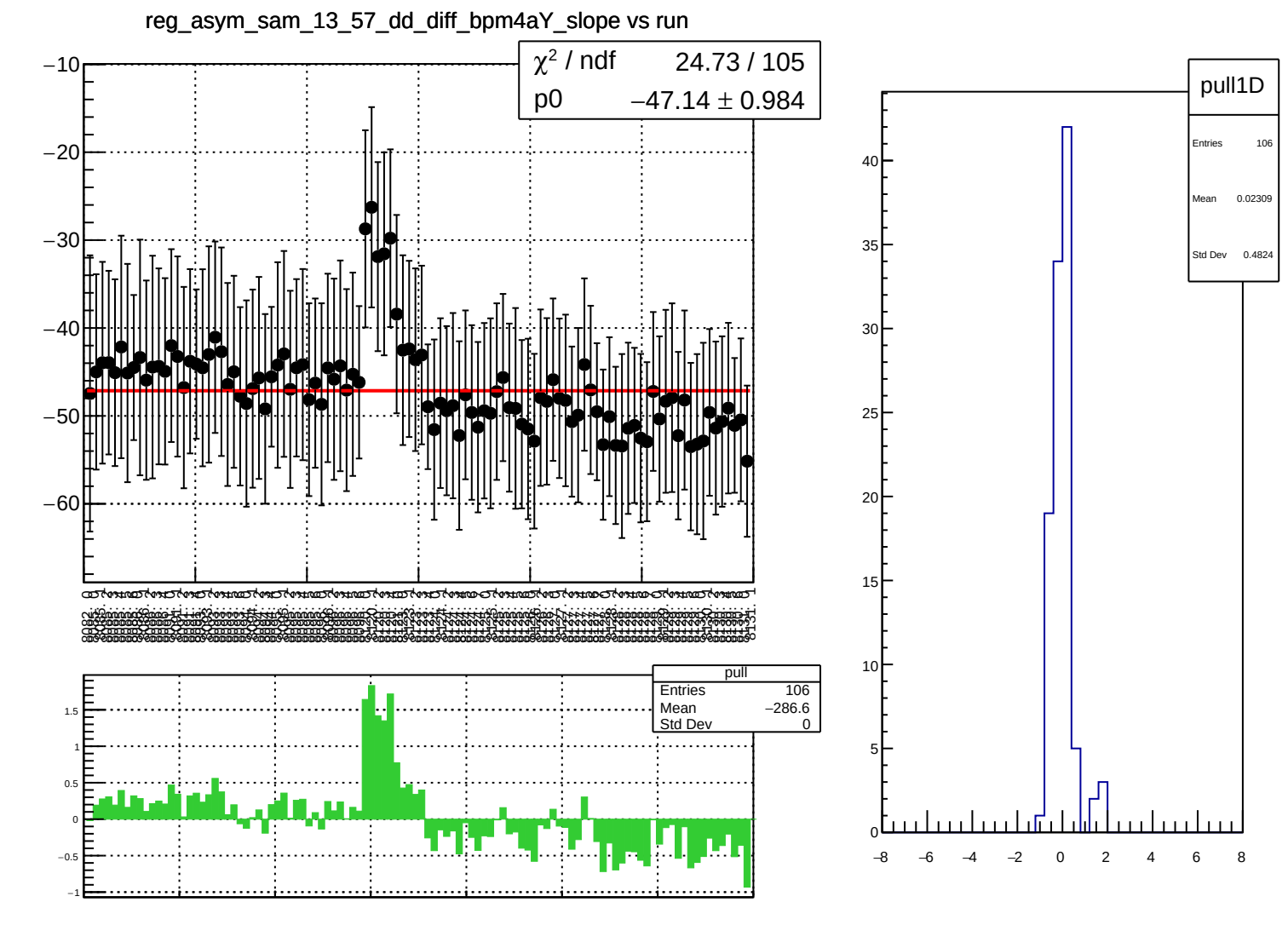

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.465 / 105
p0 59.17 ± 2.783
120
100
80
60
40
20
pull
Entries 106
Mean 820.5
Std Dev 0
0.4
0.2
0
−0.2
−0.4

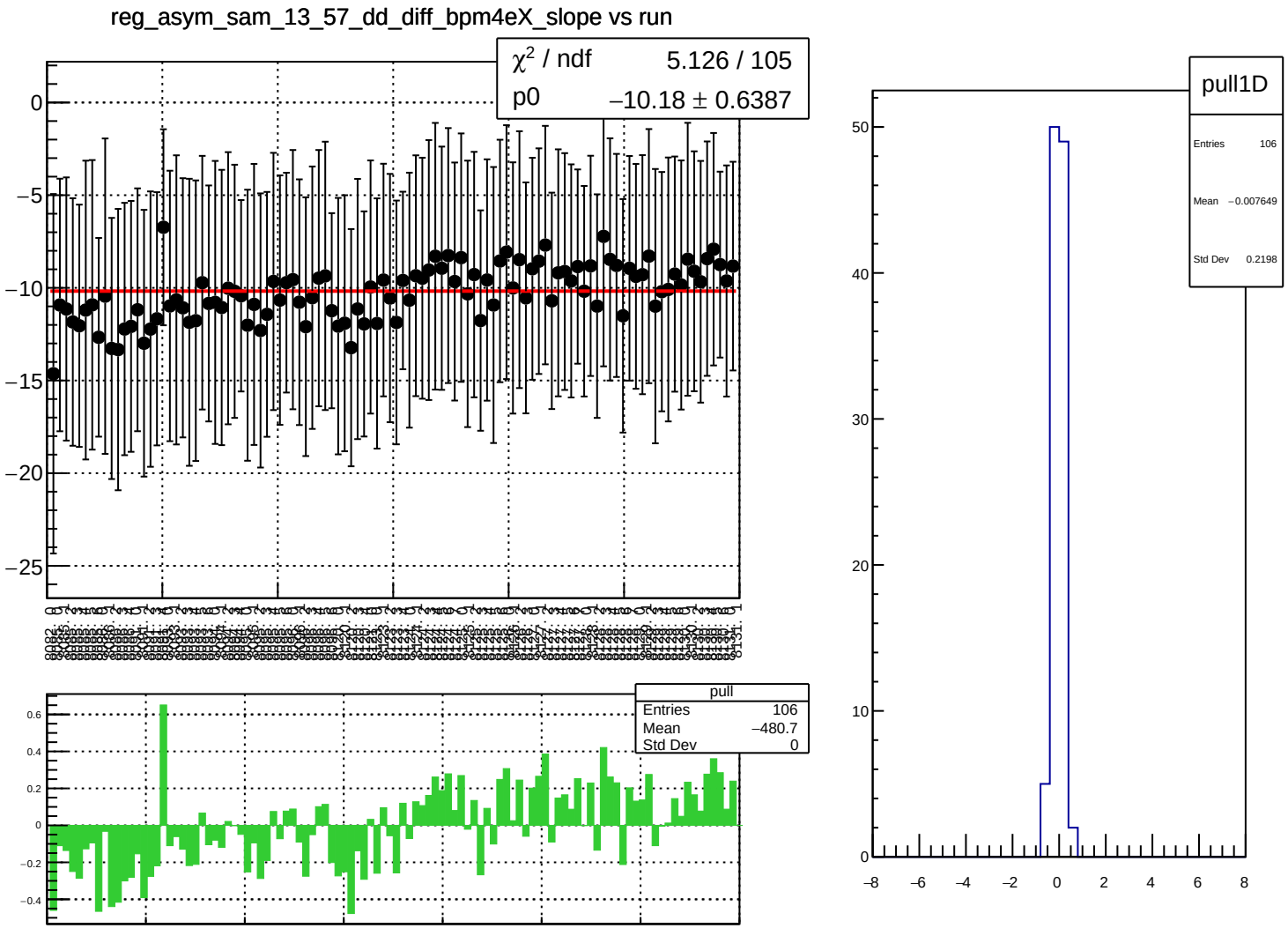

pull1D
Entries 106
Mean −0.003954
Std Dev 0.1808
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

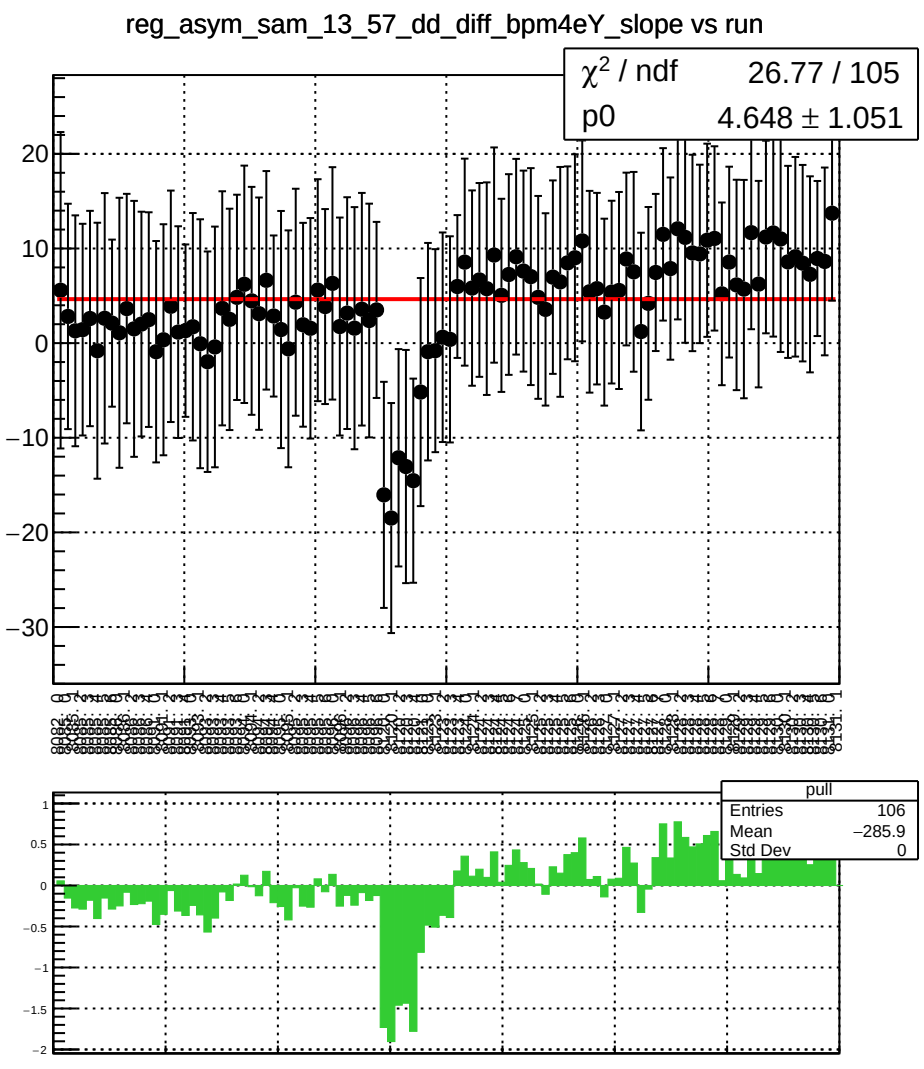

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 3.449 / 105
p0 −0.9929 ± 0.1063
pull
Entries 106
Mean 1711
Std Dev 0
pull1D
Entries 106
Mean −0.001097
Std Dev 0.1804

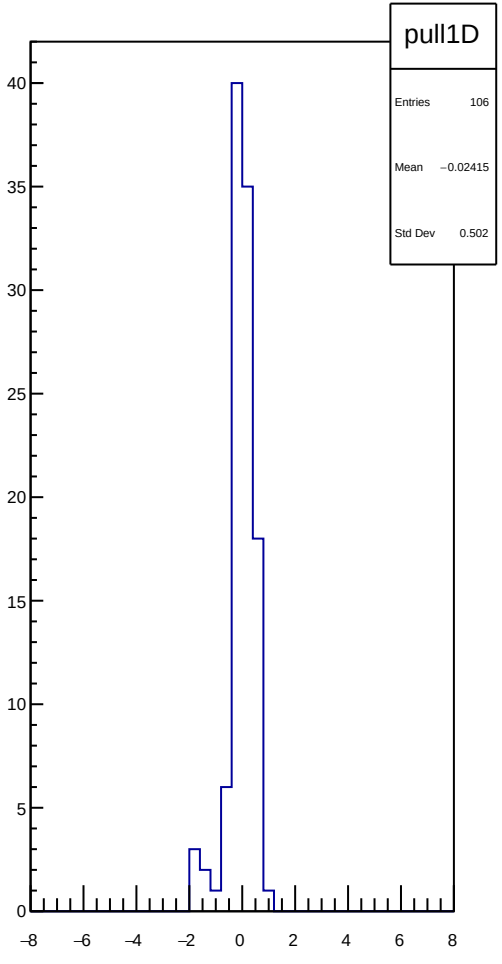

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 5.729 / 105
p0 −19.95 ± 0.6723
−5
−10
−15
−20
−25
−30
pull
Entries 106
Mean −791.6
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4

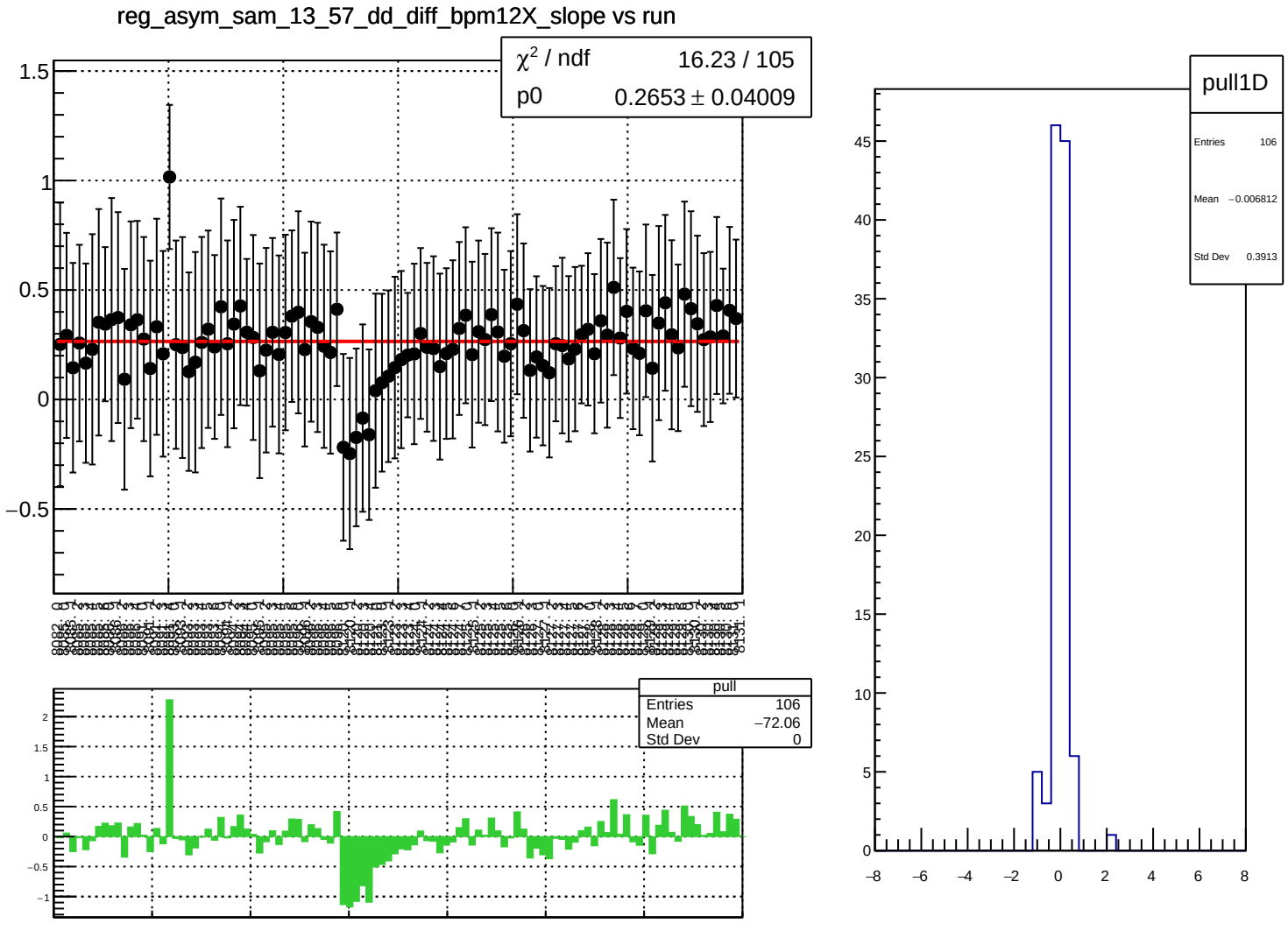

pull1D
Entries 106
Mean 0.005763
Std Dev 0.2324
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

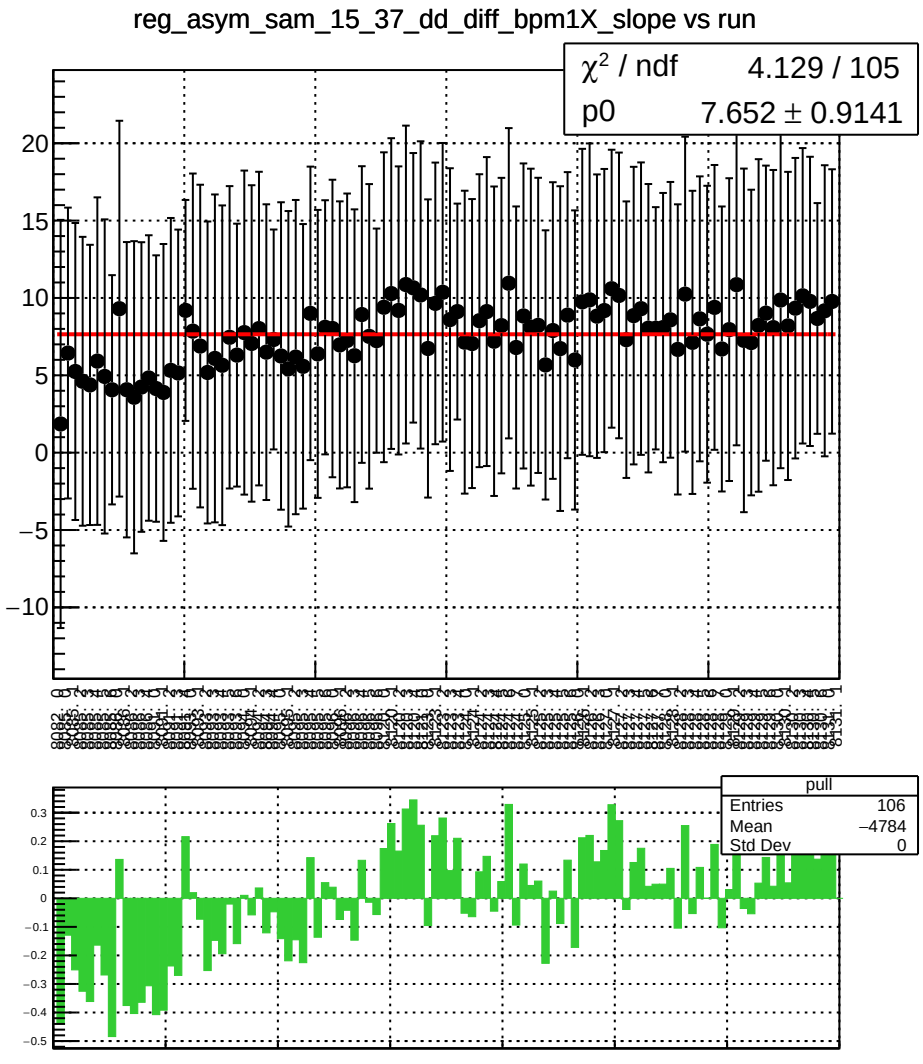

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 24.73 / 105
p0 −47.14 ± 0.984
pull
Entries 106
Mean −286.6
Std Dev 0
pull1D
Entries 106
Mean 0.02309
Std Dev 0.4824

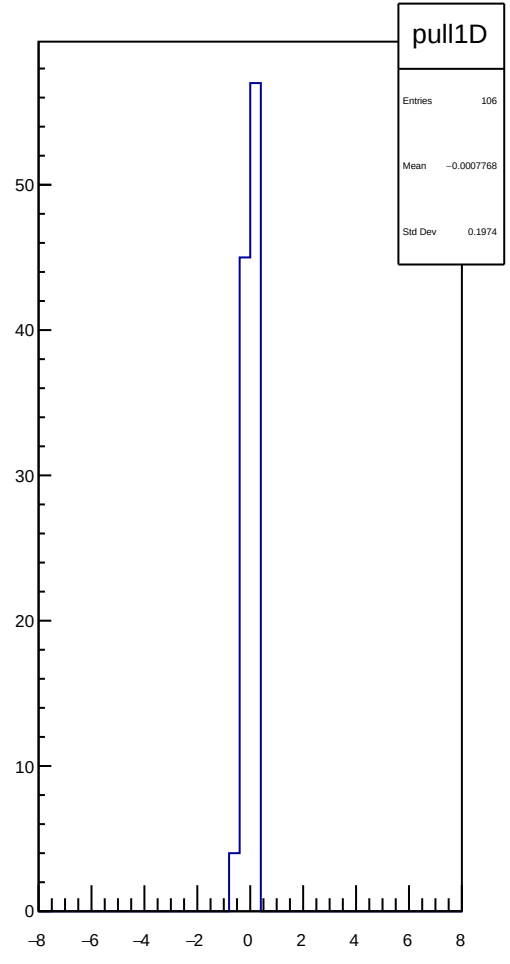

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.126 / 105
p0 −10.18 ± 0.6387
pull
Entries 106
Mean −480.7
Std Dev 0
pull1D
Entries 106
Mean −0.007649
Std Dev 0.2198

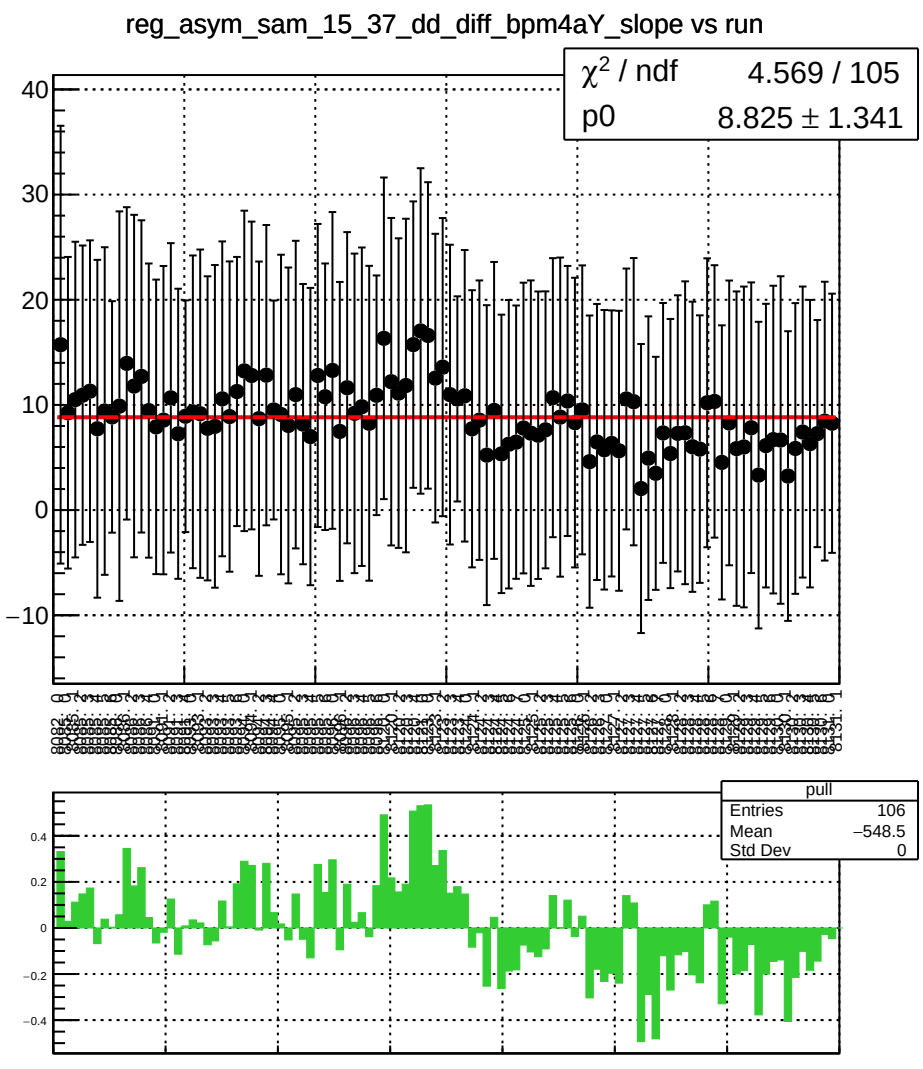

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 26.77 / 105
p0 4.648 ± 1.051
pull
Entries 106
Mean −285.9
Std Dev 0

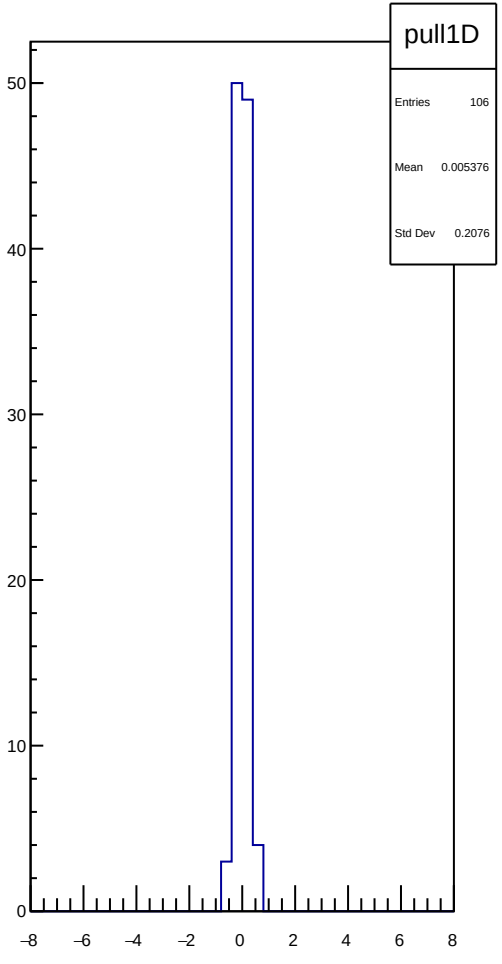

pull1D
Entries 106
Mean −0.02415
Std Dev 0.502

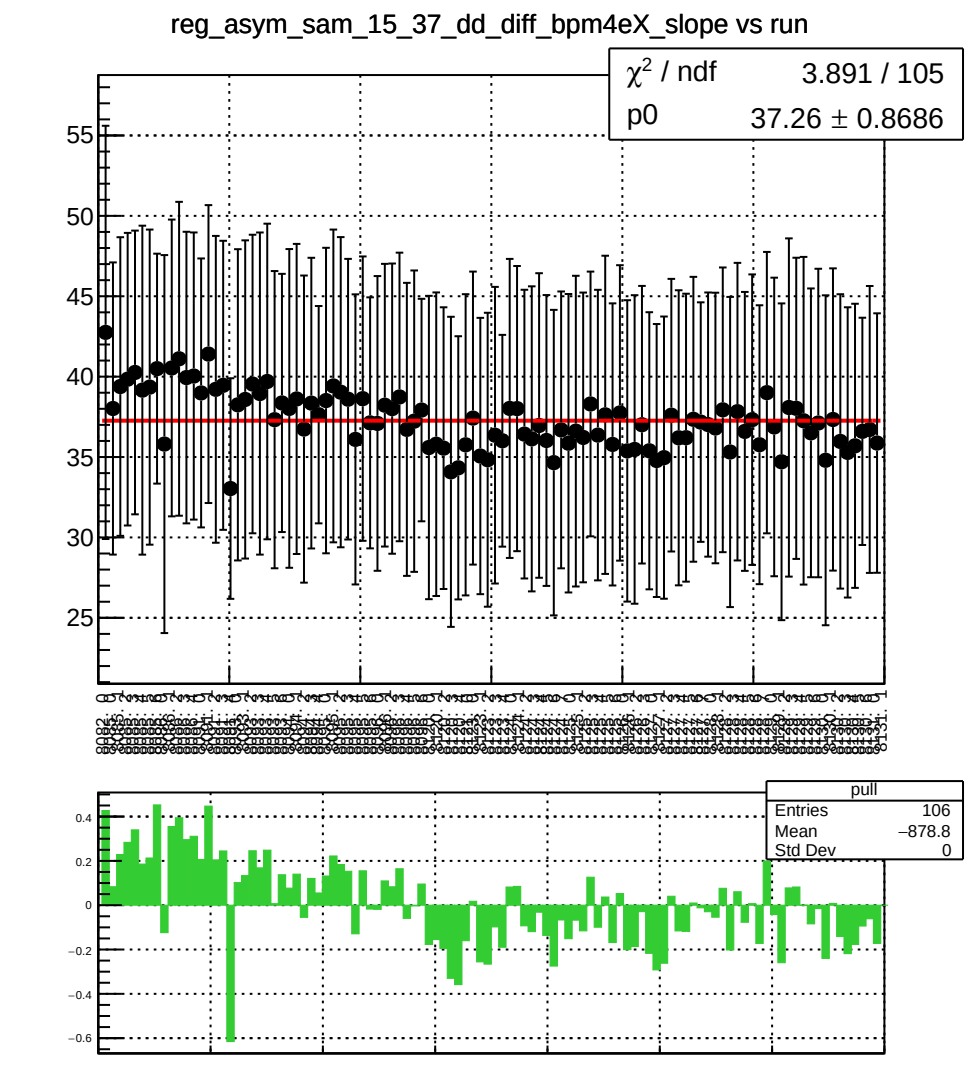

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 16.23 / 105
p0 0.2653 ± 0.04009
pull
Entries 106
Mean −72.06
Std Dev 0
pull1D
Entries 106
Mean −0.006812
Std Dev 0.3913

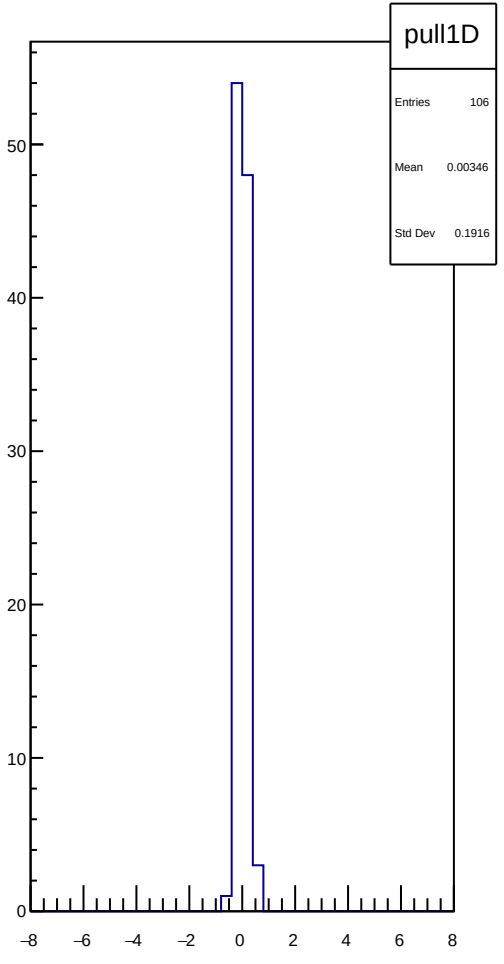

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 4.129 / 105
p0 7.652 ± 0.9141
pull
Entries 106
Mean −4784
Std Dev 0

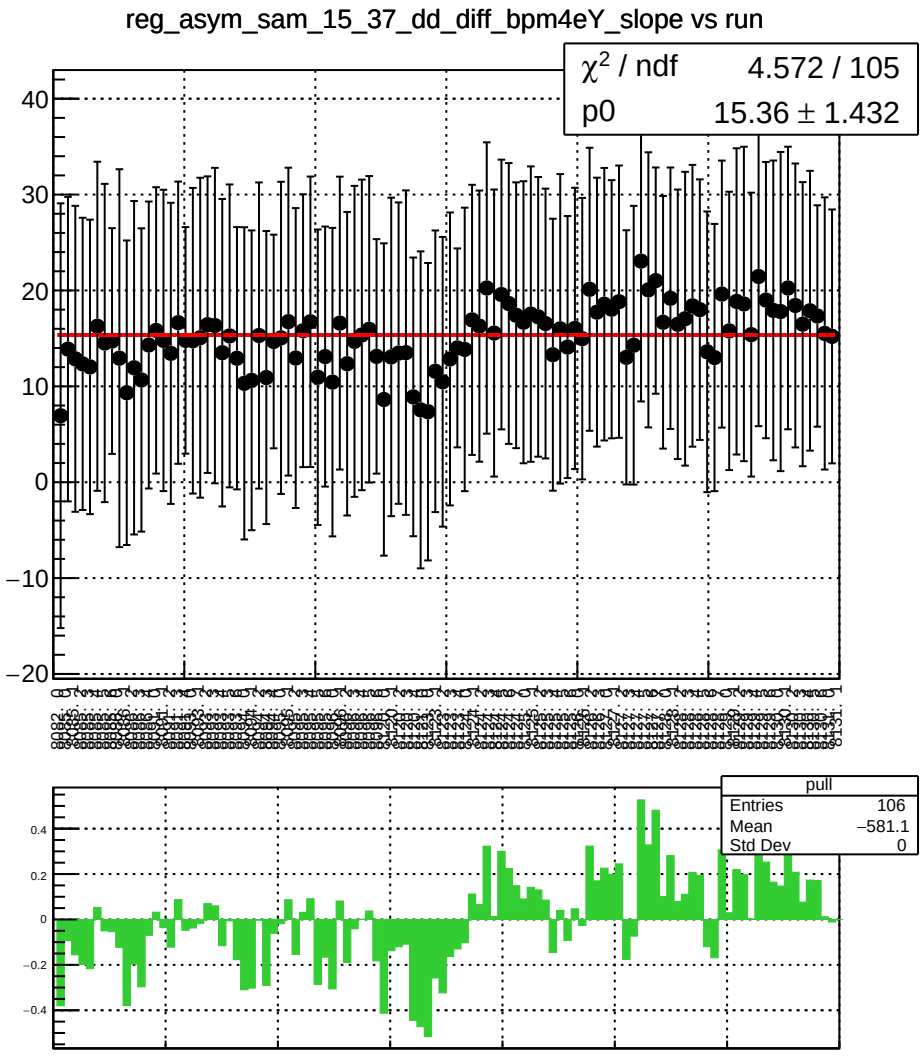

pull1D
Entries 106
Mean −0.0007768
Std Dev 0.1974

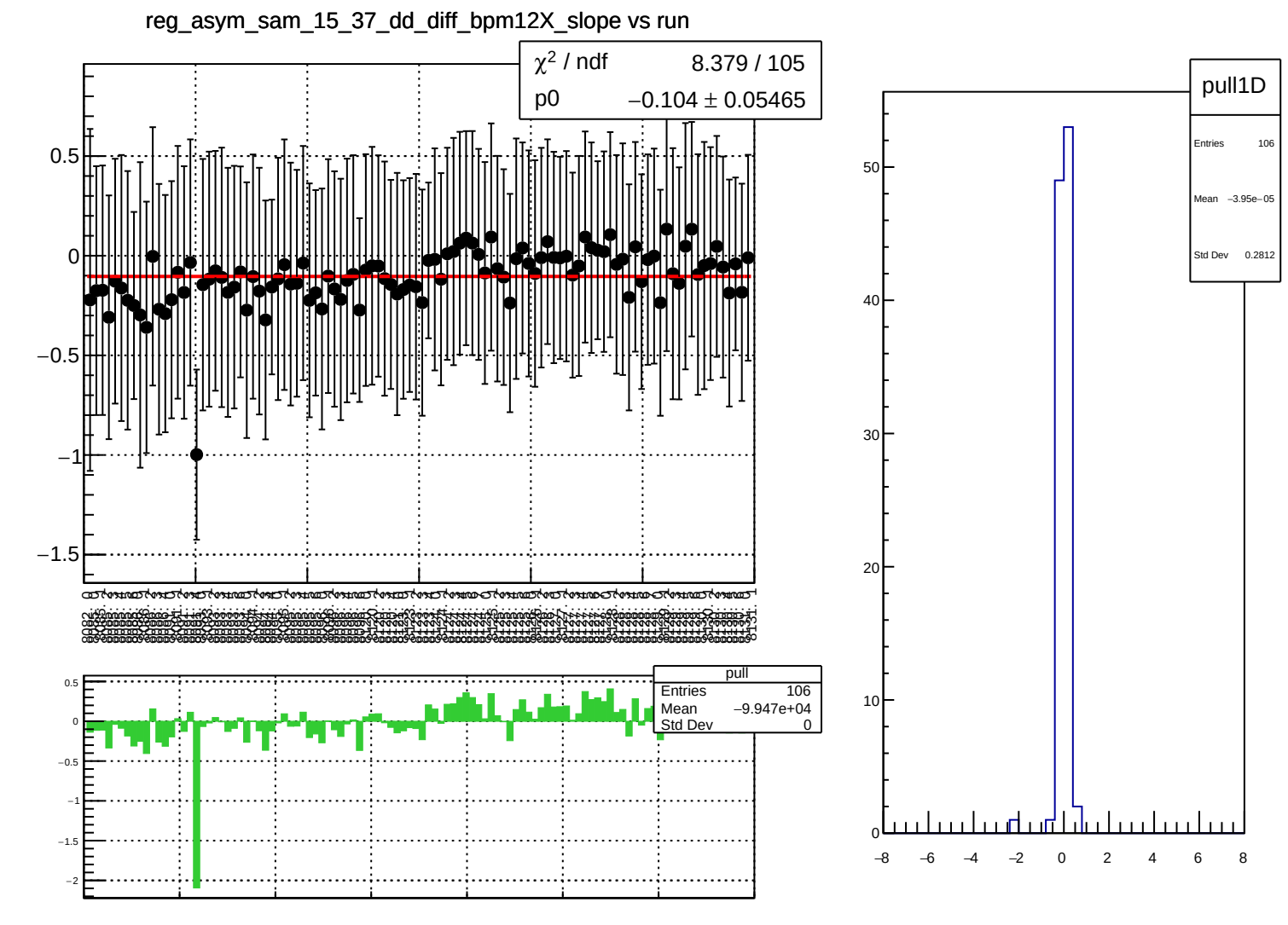

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.569 / 105
p0 8.825 ± 1.341
pull
Entries 106
Mean −548.5
Std Dev 0

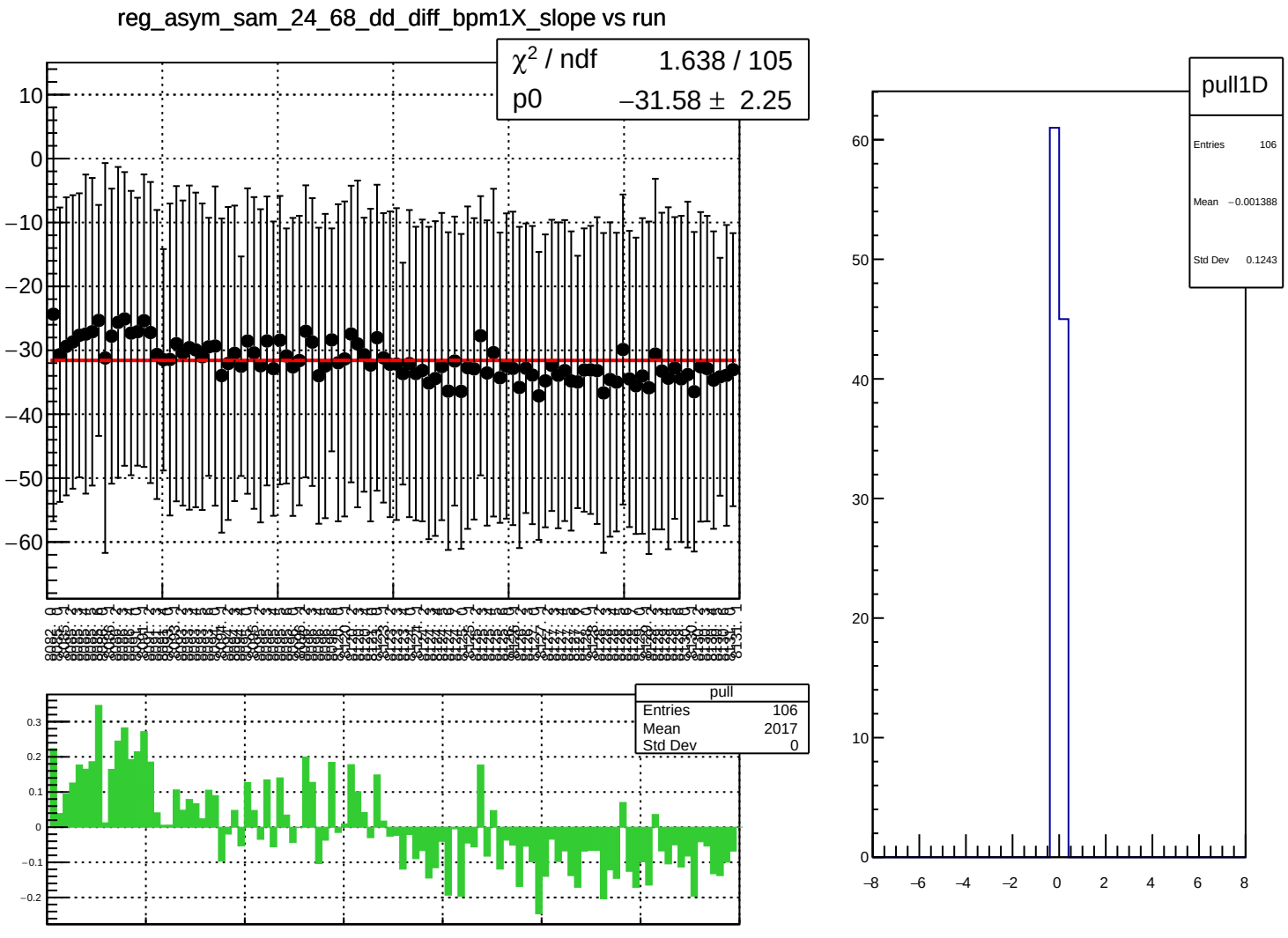

pull1D
Entries 106
Mean 0.005376
Std Dev 0.2076

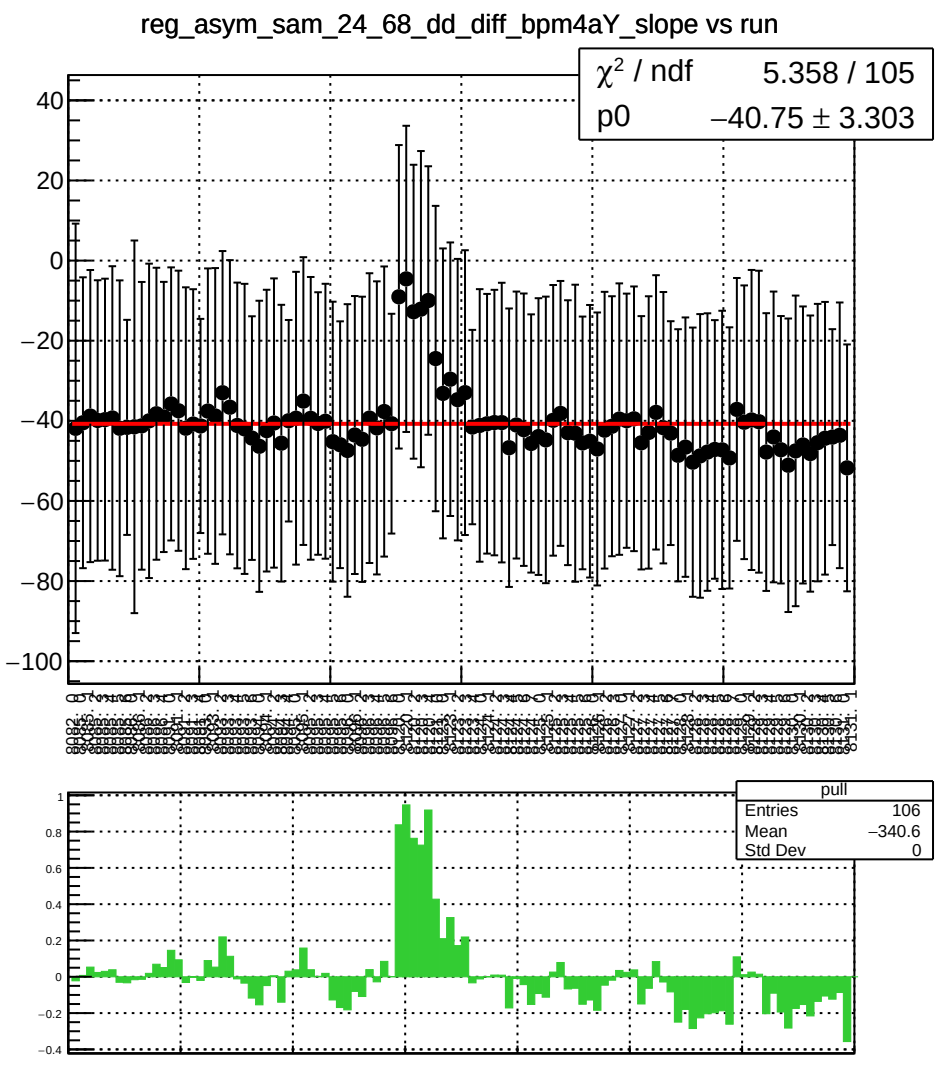

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.891 / 105
p0 37.26 ± 0.8686
pull
Entries 106
Mean −878.8
Std Dev 0

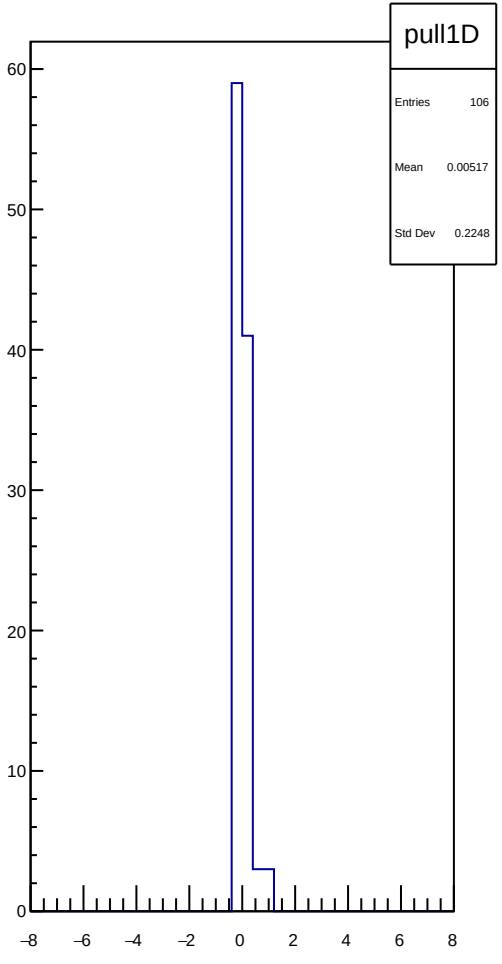

pull1D
Entries 106
Mean 0.00346
Std Dev 0.1916

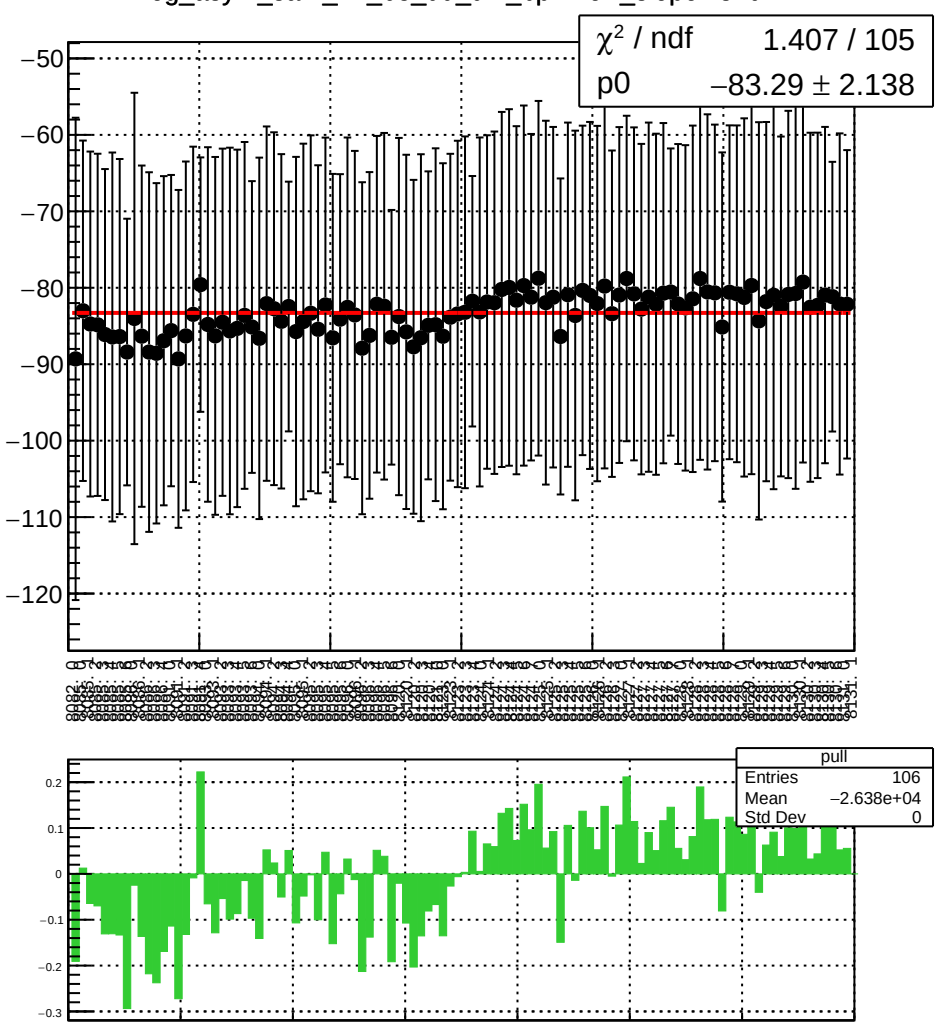

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.572 / 105
p0 15.36 ± 1.432
pull
Entries 106
Mean −581.1
Std Dev 0
pull1D
Entries 106
Mean −0.005442
Std Dev 0.2076

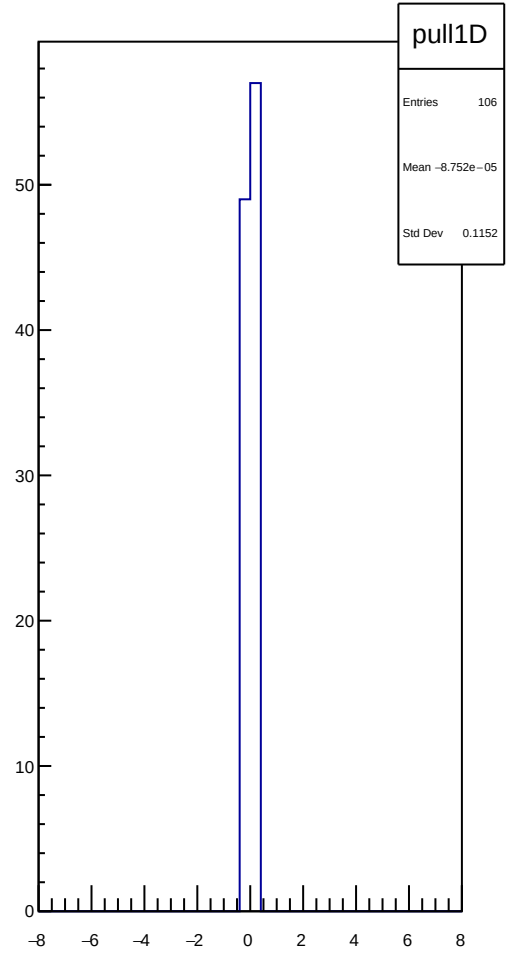

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 8.379 / 105
p0 −0.104 ± 0.05465
0.5
0
−0.5
−1
−1.5
pull
Entries 106
Mean −9.947e+04
Std Dev 0
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 106
Mean −3.95e−05
Std Dev 0.2812
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

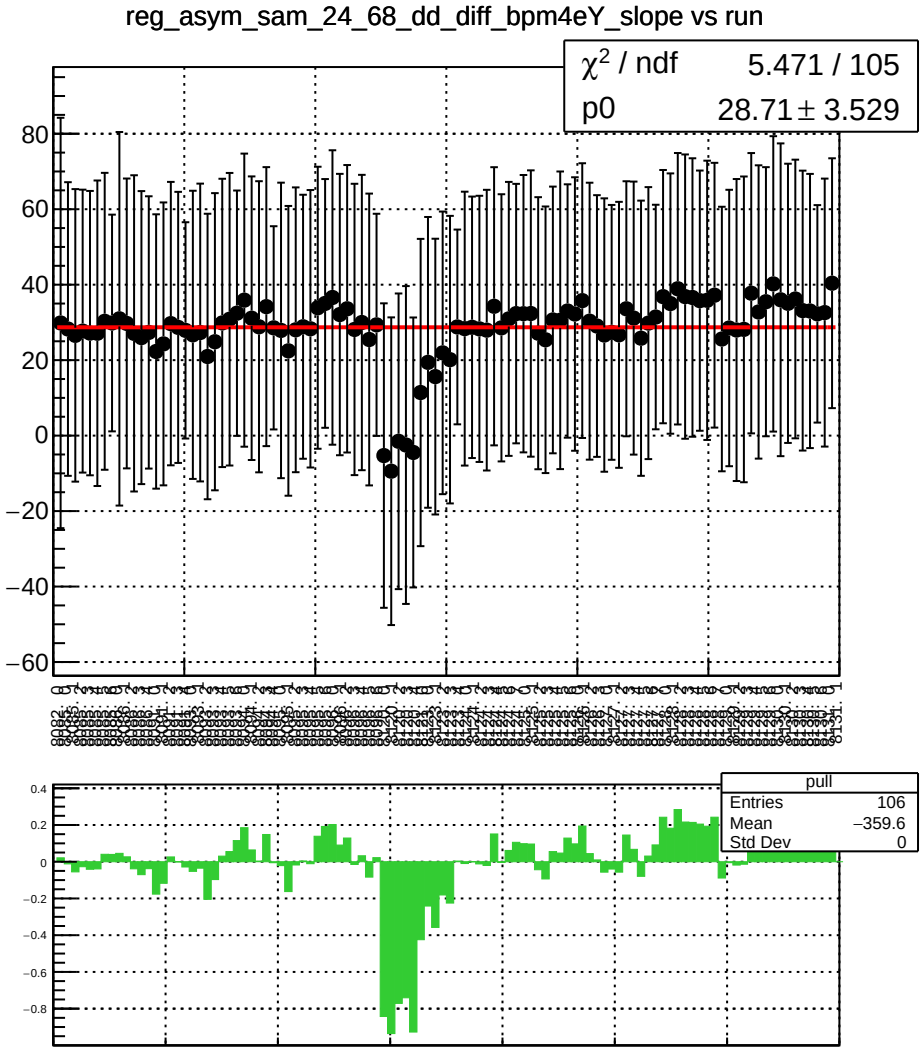

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 1.638 / 105
p0 −31.58 ± 2.25
pull
Entries 106
Mean 2017
Std Dev 0
pull1D
Entries 106
Mean −0.001388
Std Dev 0.1243

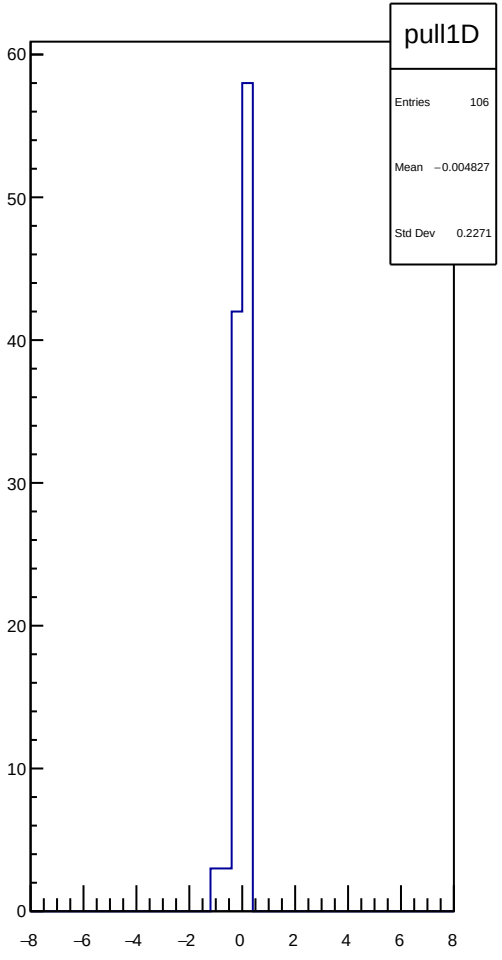

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.358 / 105
p0 −40.75 ± 3.303
pull
Entries 106
Mean −340.6
Std Dev 0

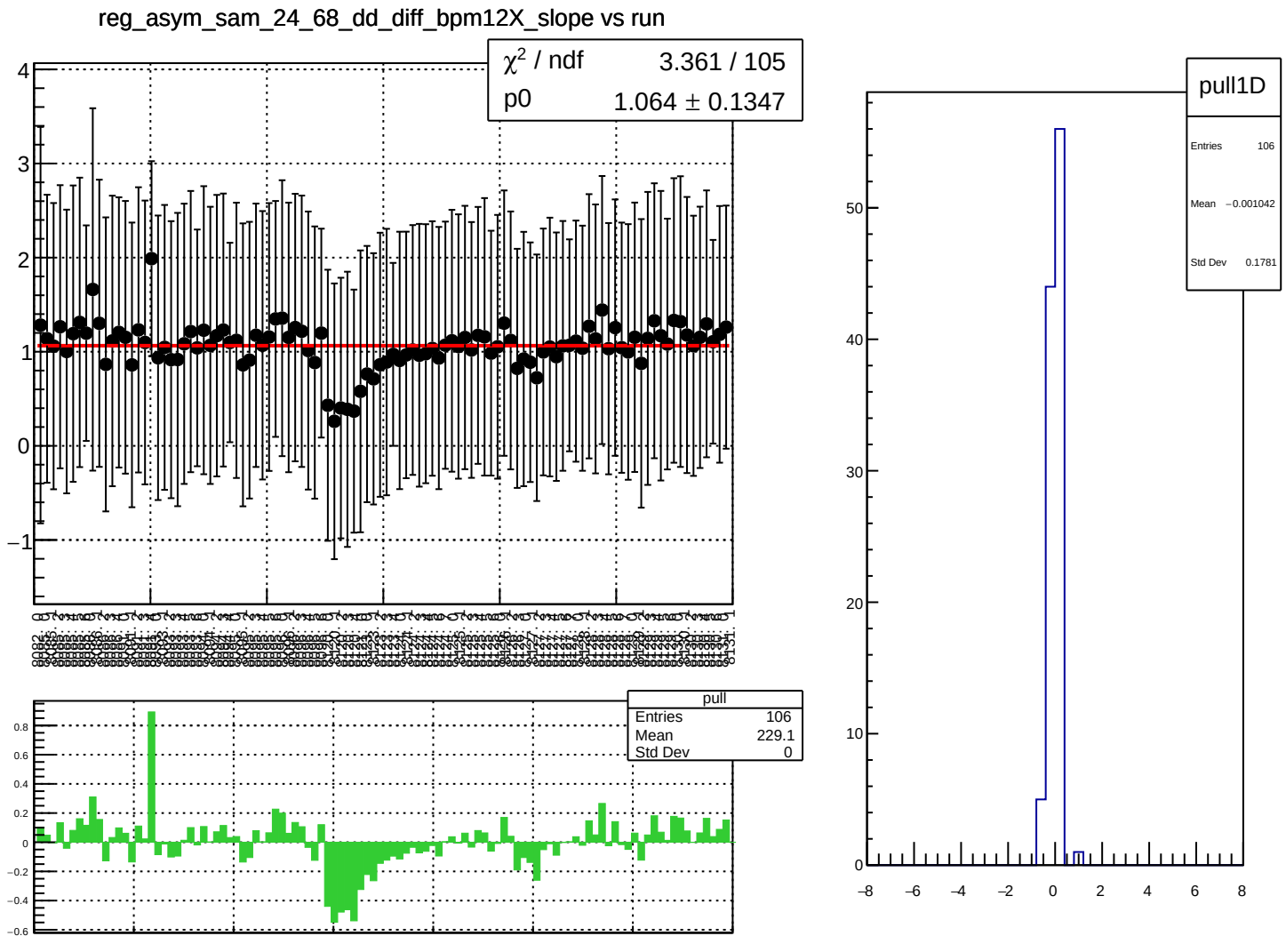

pull1D
Entries 106
Mean 0.00517
Std Dev 0.2248

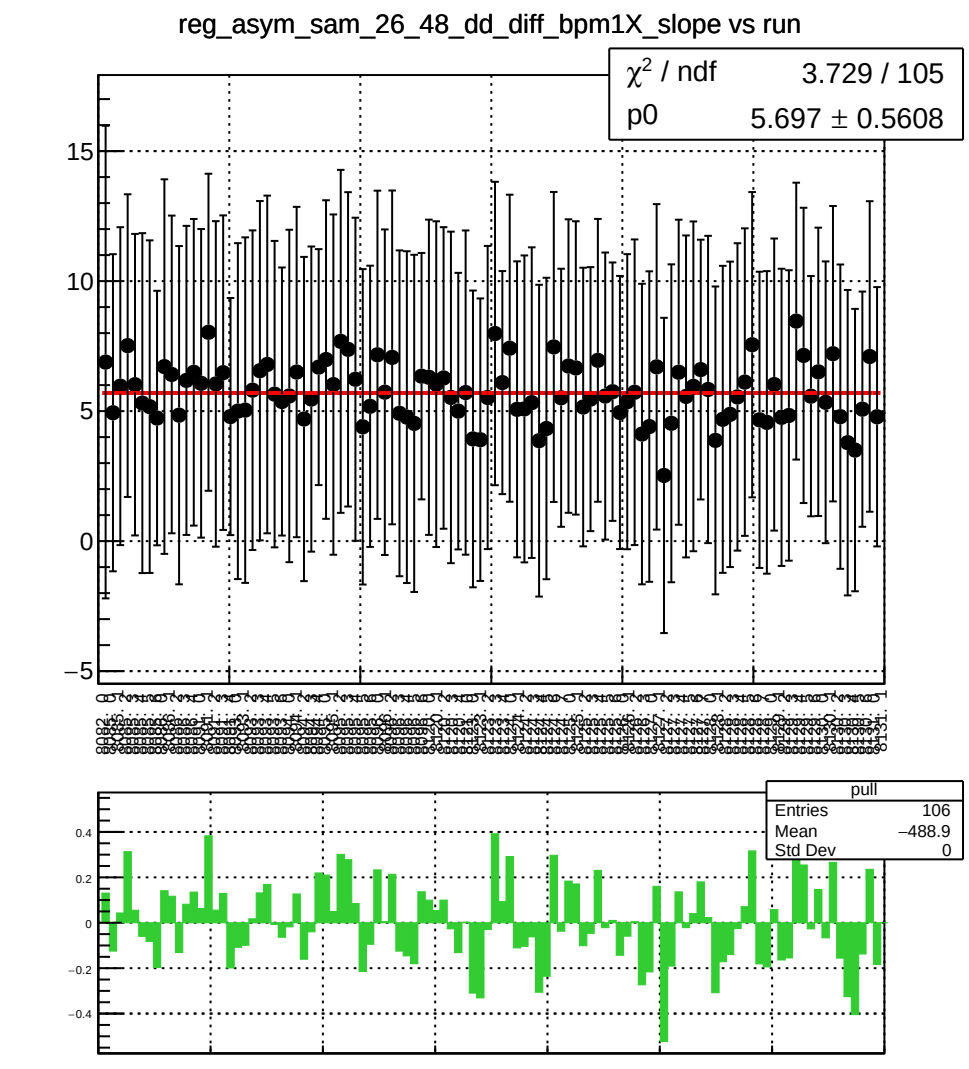

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.407 / 105
p0 −83.29 ± 2.138
pull
Entries 106
Mean −2.638e+04
Std Dev 0

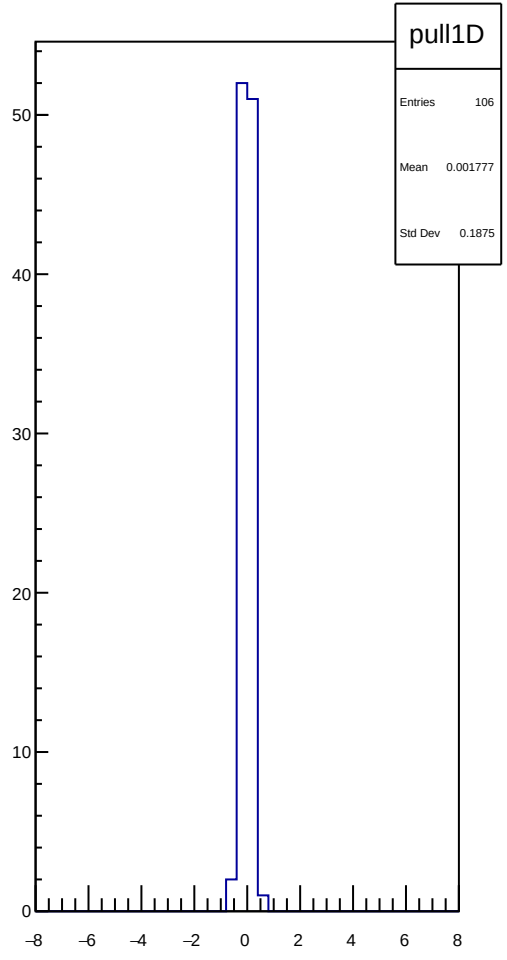

pull1D
Entries 106
Mean −8.752e−05
Std Dev 0.1152

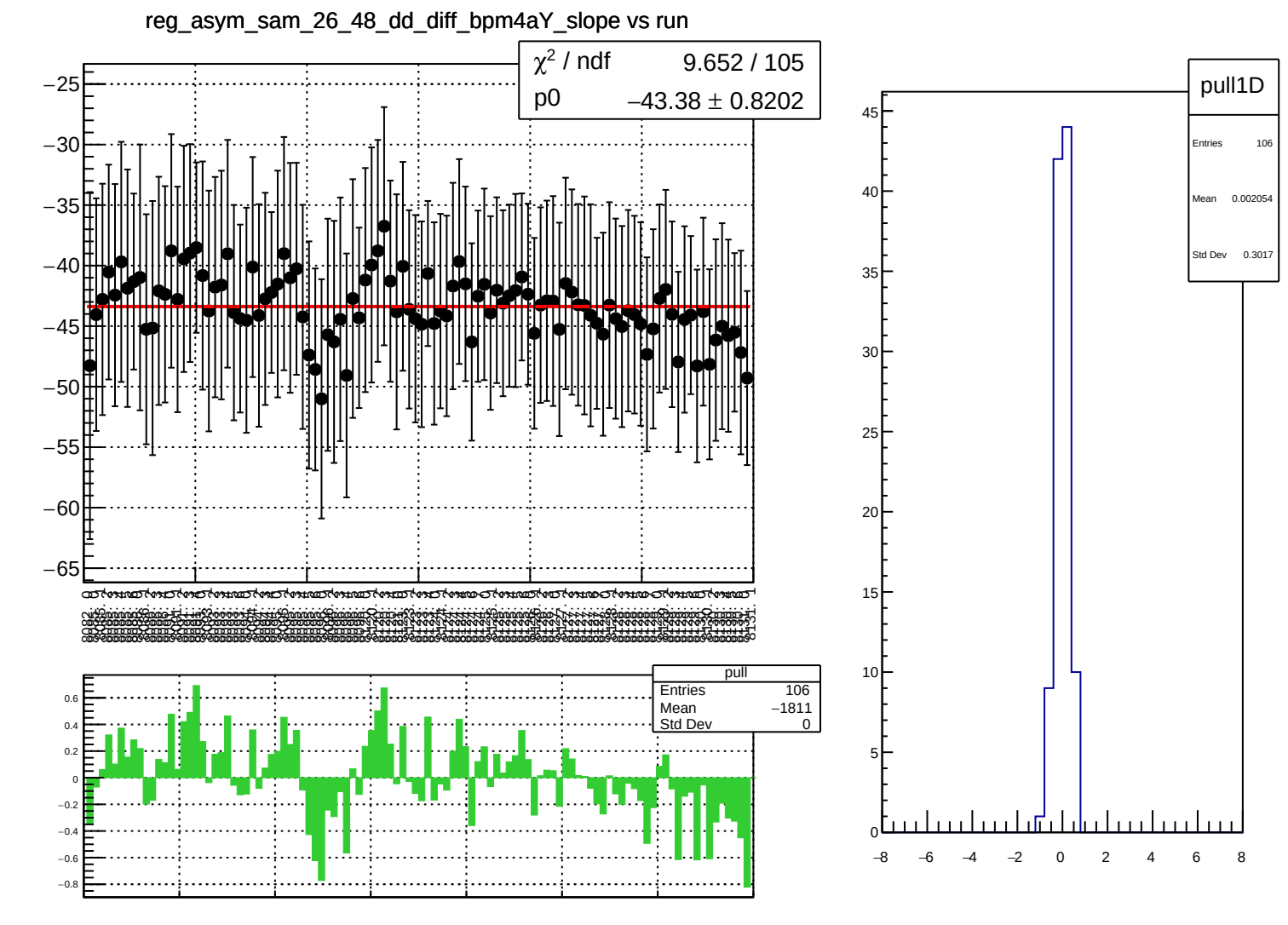

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.471 / 105
p0 28.71 ± 3.529
pull
Entries 106
Mean −359.6
Std Dev 0

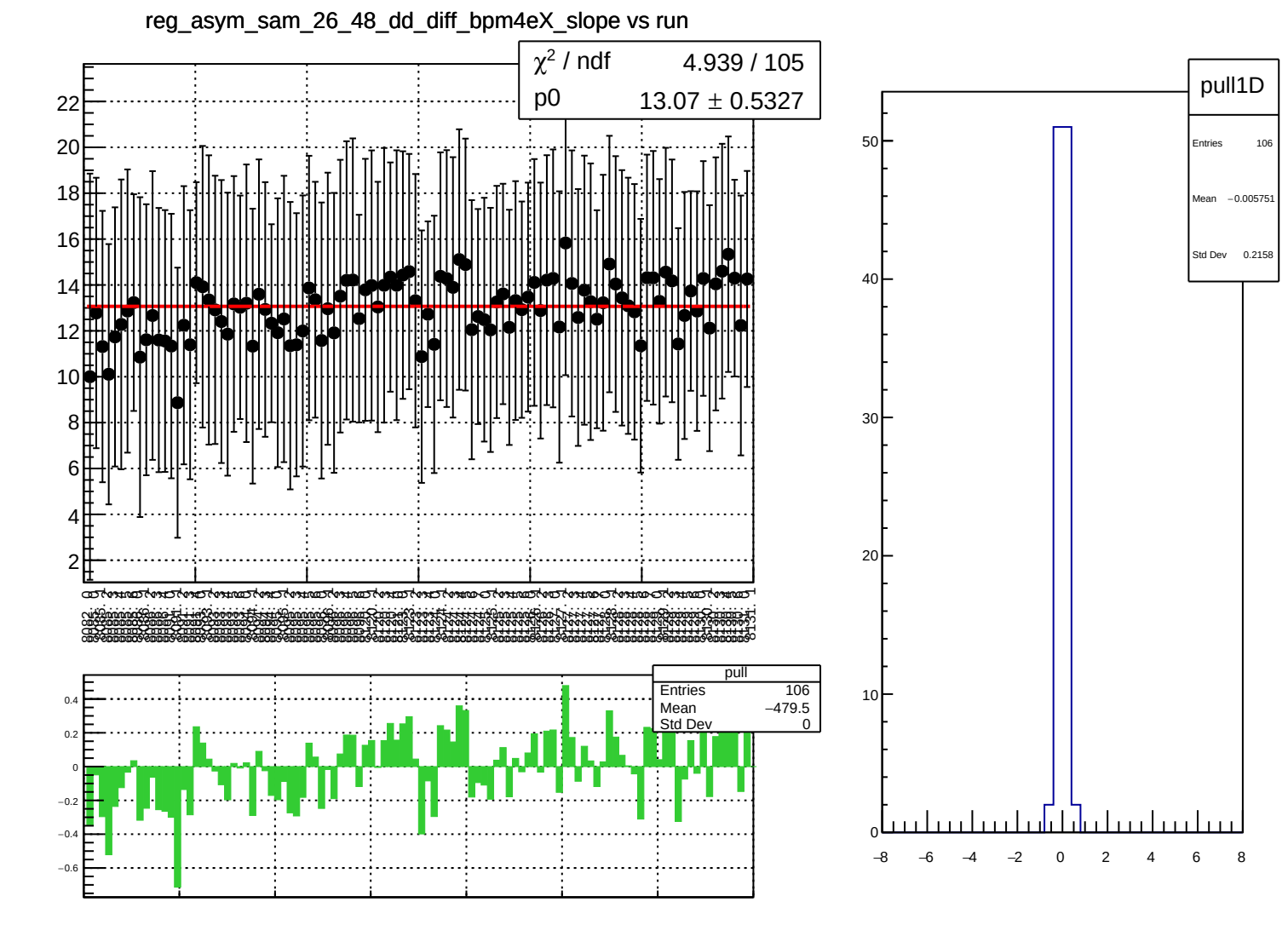

pull1D
Entries 106
Mean −0.004827
Std Dev 0.2271

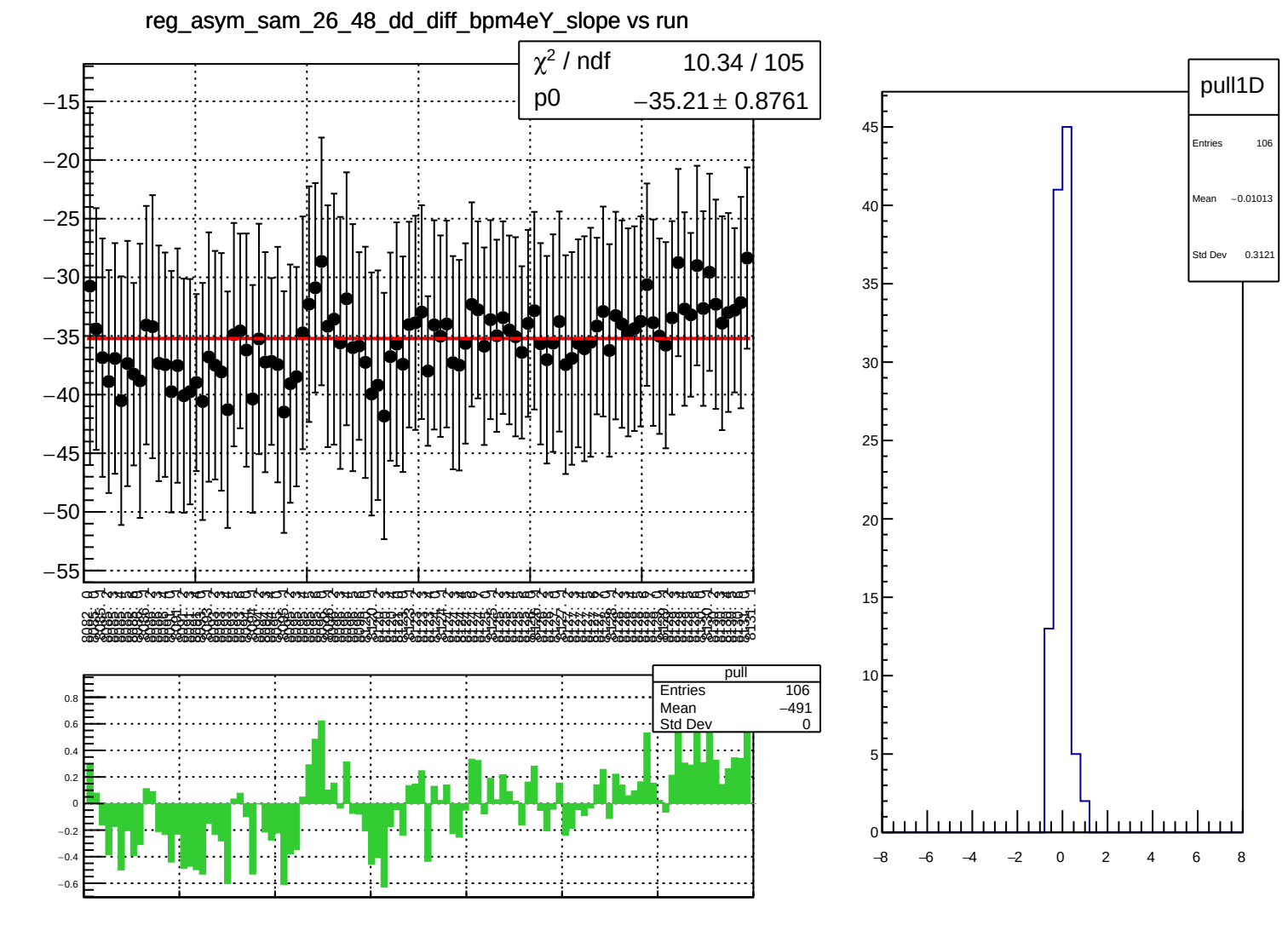

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 3.361 / 105
p0 1.064 ± 0.1347
pull
Entries 106
Mean 229.1
Std Dev 0
pull1D
Entries 106
Mean −0.001042
Std Dev 0.1781

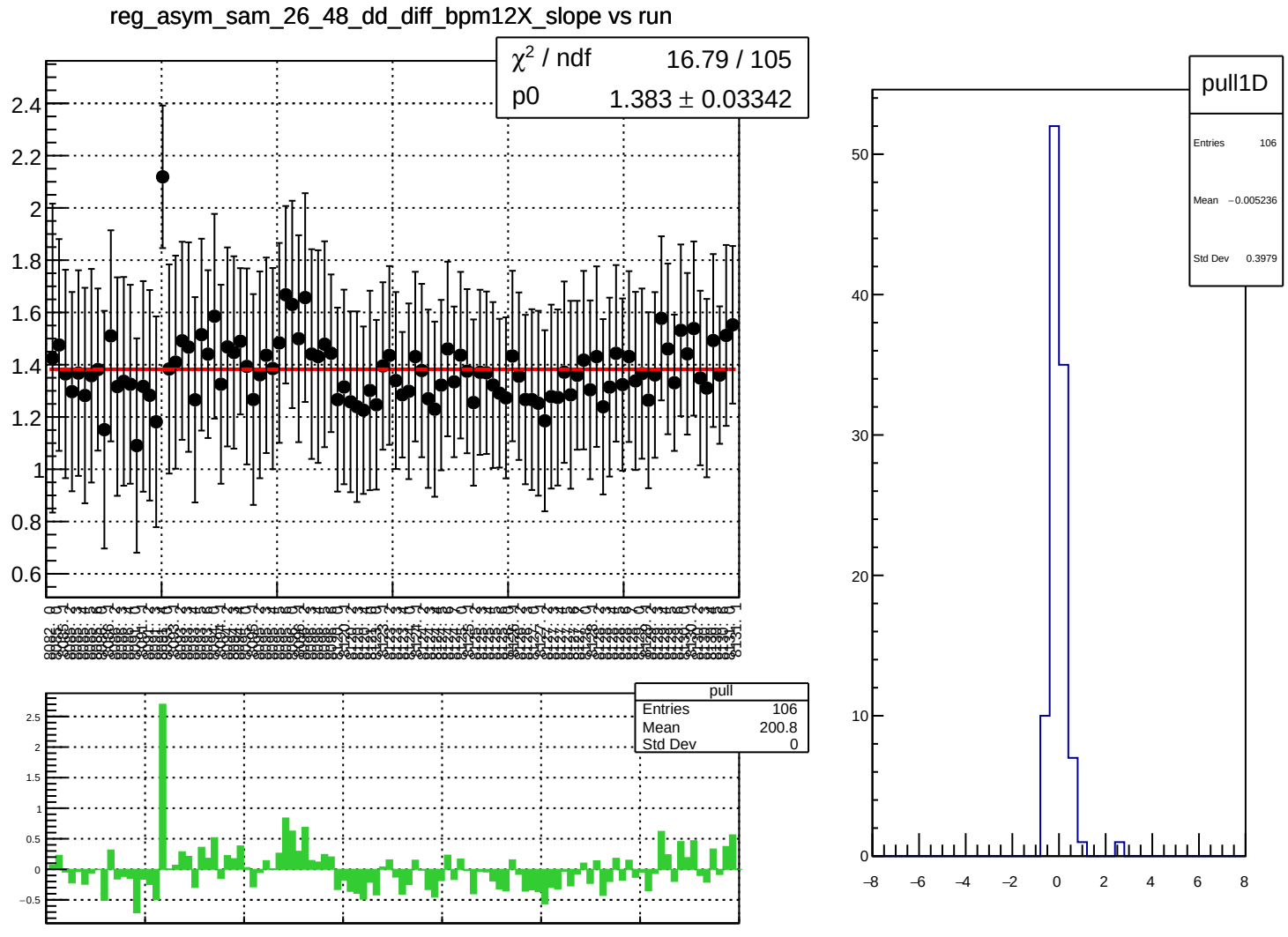

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 3.729 / 105
p0 5.697 ± 0.5608
15
10
5
0
−5
pull
Entries 106
Mean −488.9
Std Dev 0
0.4
0.2
0
−0.2
−0.4

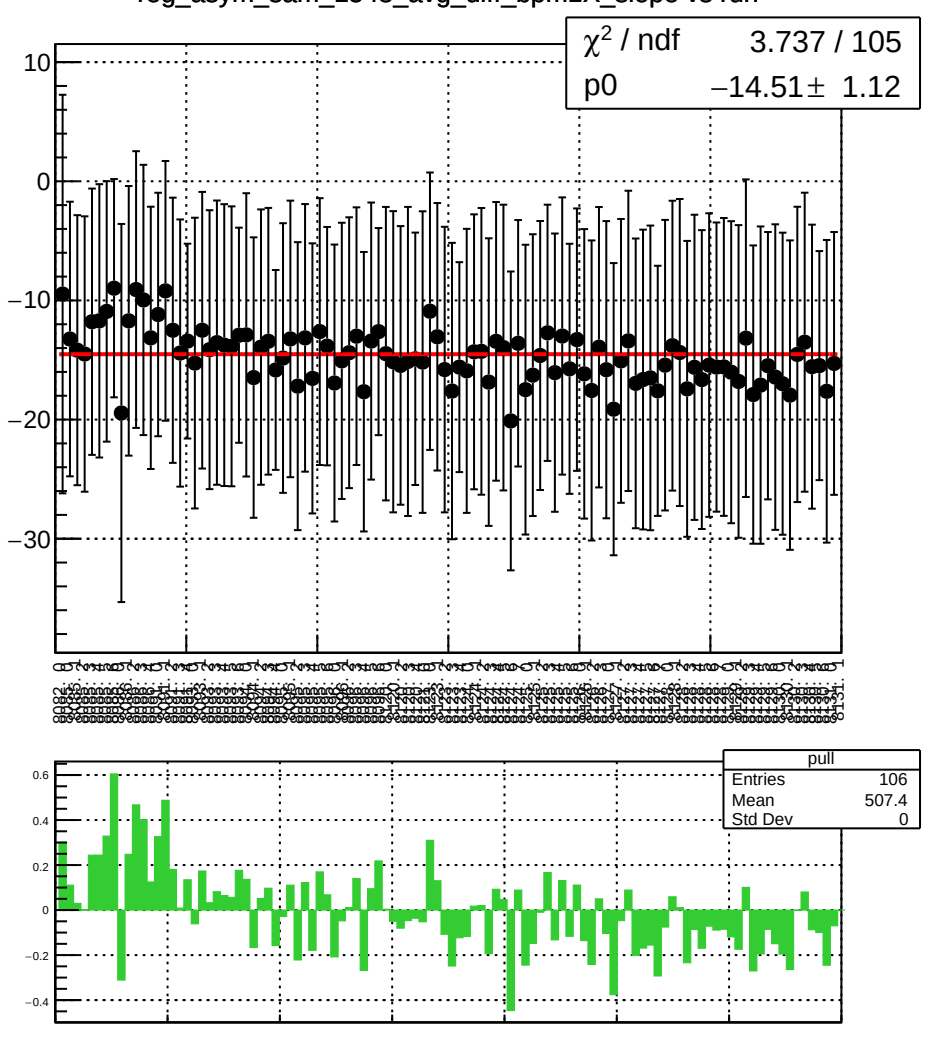

pull1D
Entries 106
Mean 0.001777
Std Dev 0.1875
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

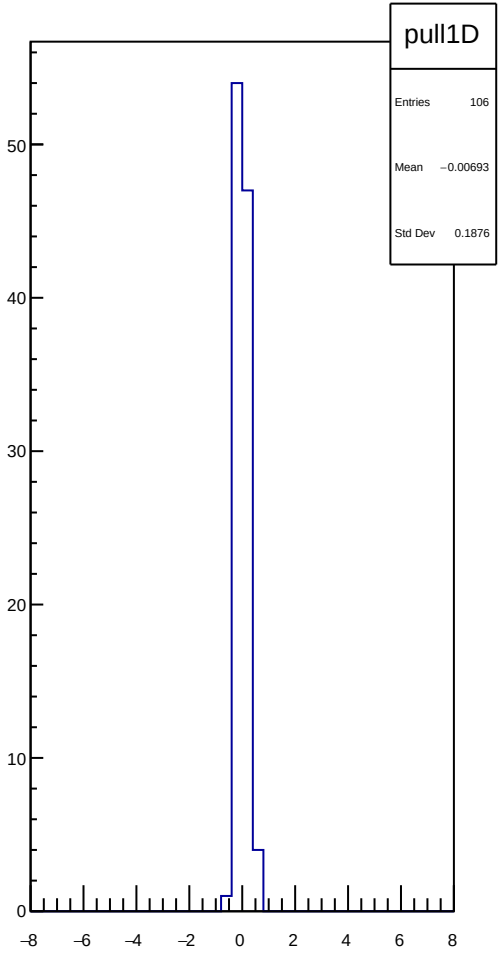

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.652 / 105
p0 −43.38 ± 0.8202
pull
Entries 106
Mean −1811
Std Dev 0
pull1D
Entries 106
Mean 0.002054
Std Dev 0.3017

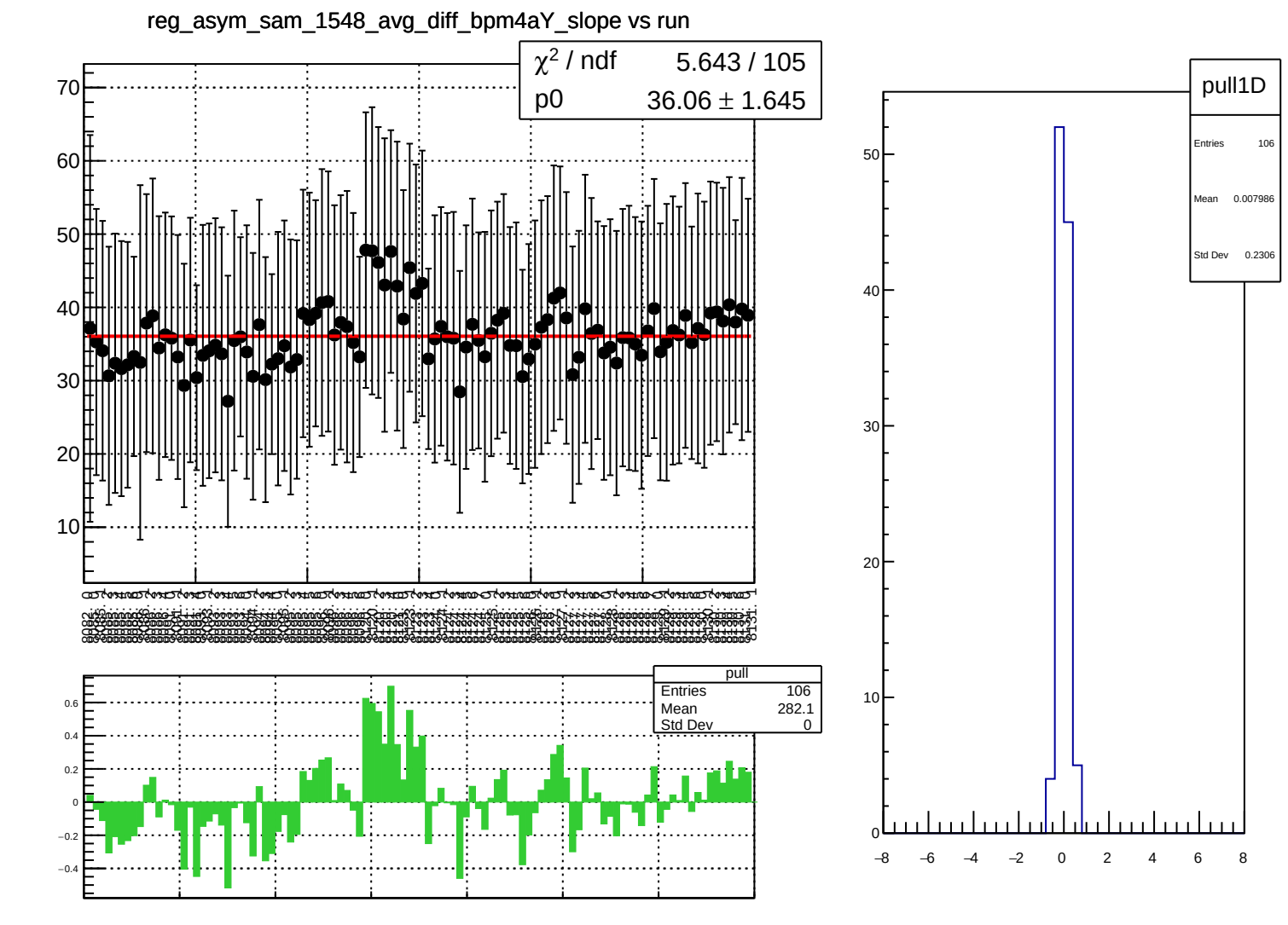

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.939 / 105
p0 13.07 ± 0.5327
pull
Entries 106
Mean −479.5
Std Dev 0
pull1D
Entries 106
Mean −0.005751
Std Dev 0.2158

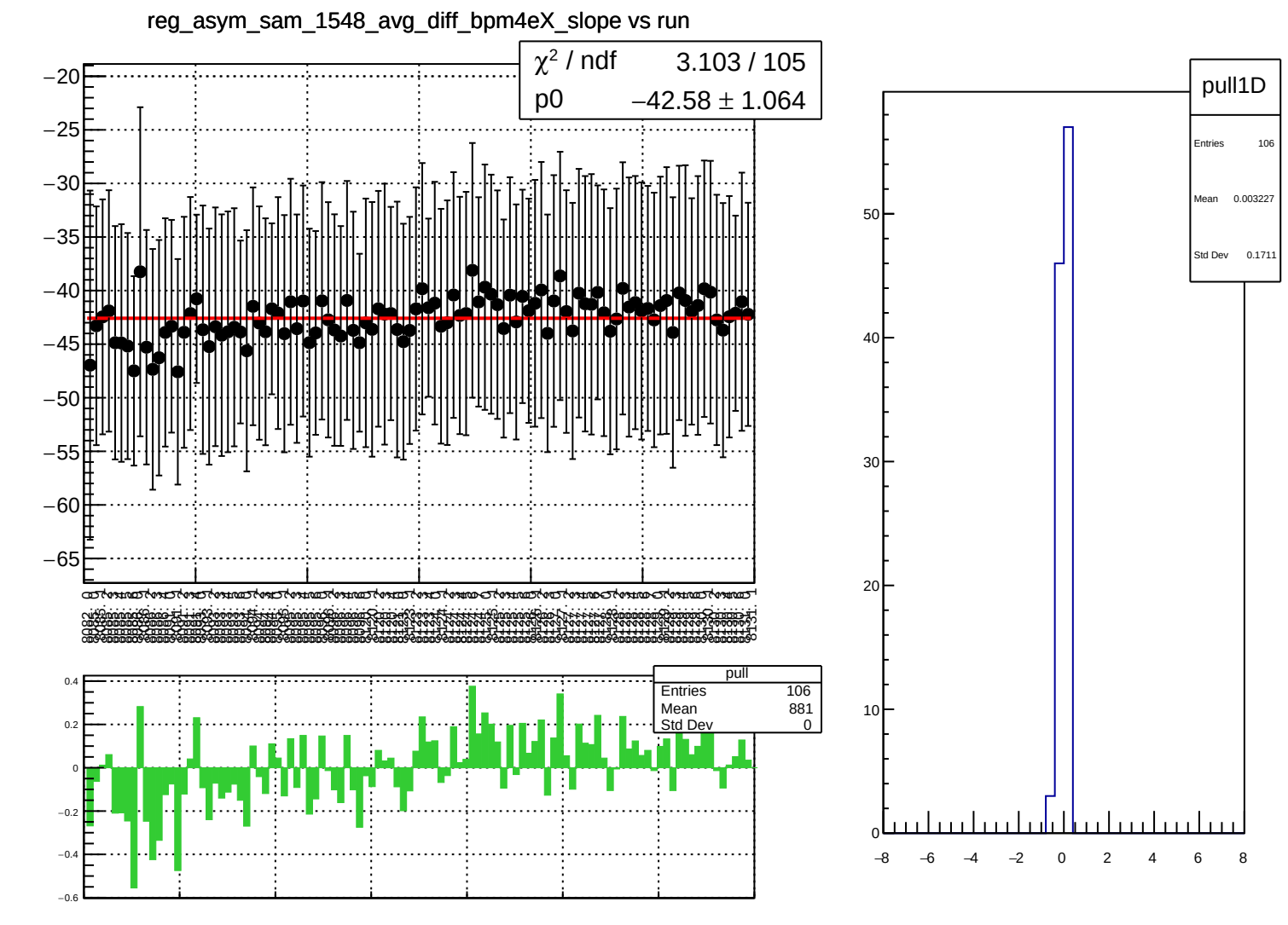

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.34 / 105
p0 −35.21 ± 0.8761
pull
Entries 106
Mean −491
Std Dev 0
pull1D
Entries 106
Mean −0.01013
Std Dev 0.3121

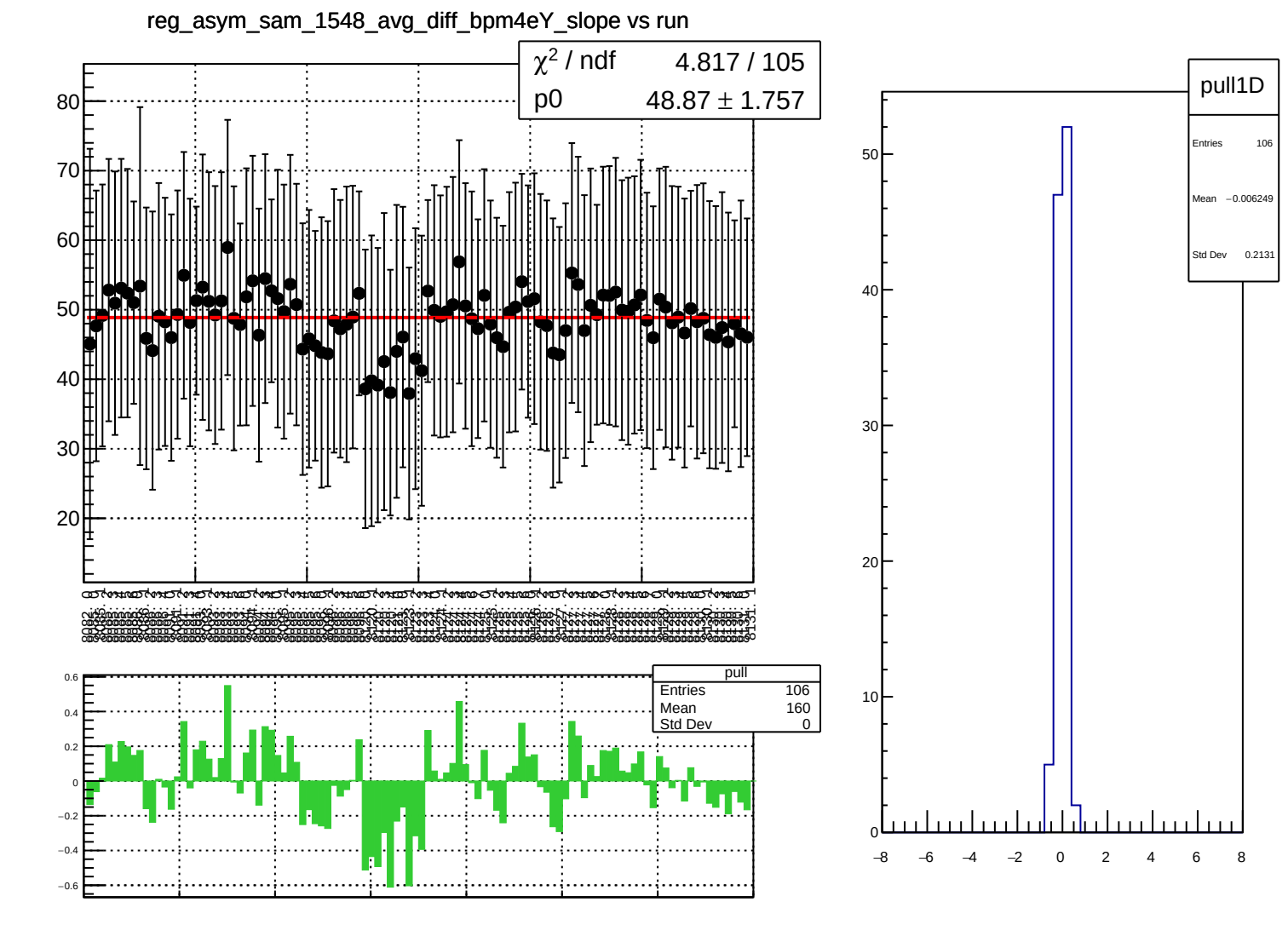

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 16.79 / 105
p0 1.383 ± 0.03342
pull
Entries 106
Mean 200.8
Std Dev 0
pull1D
Entries 106
Mean −0.005236
Std Dev 0.3979

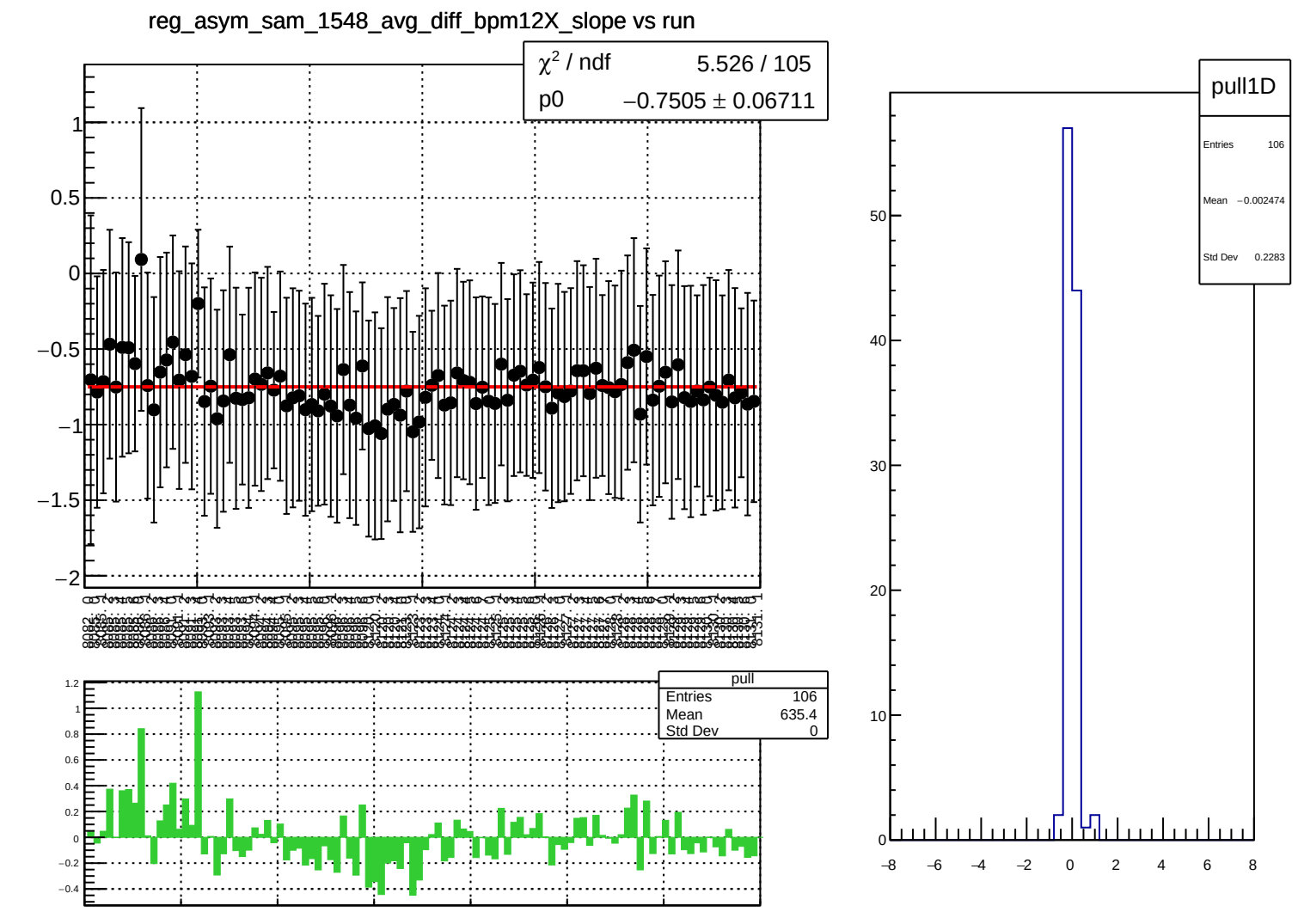

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 3.737 / 105
p0 −14.51 ± 1.12
10
0
−10
−20
−30
pull
Entries 106
Mean 507.4
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4

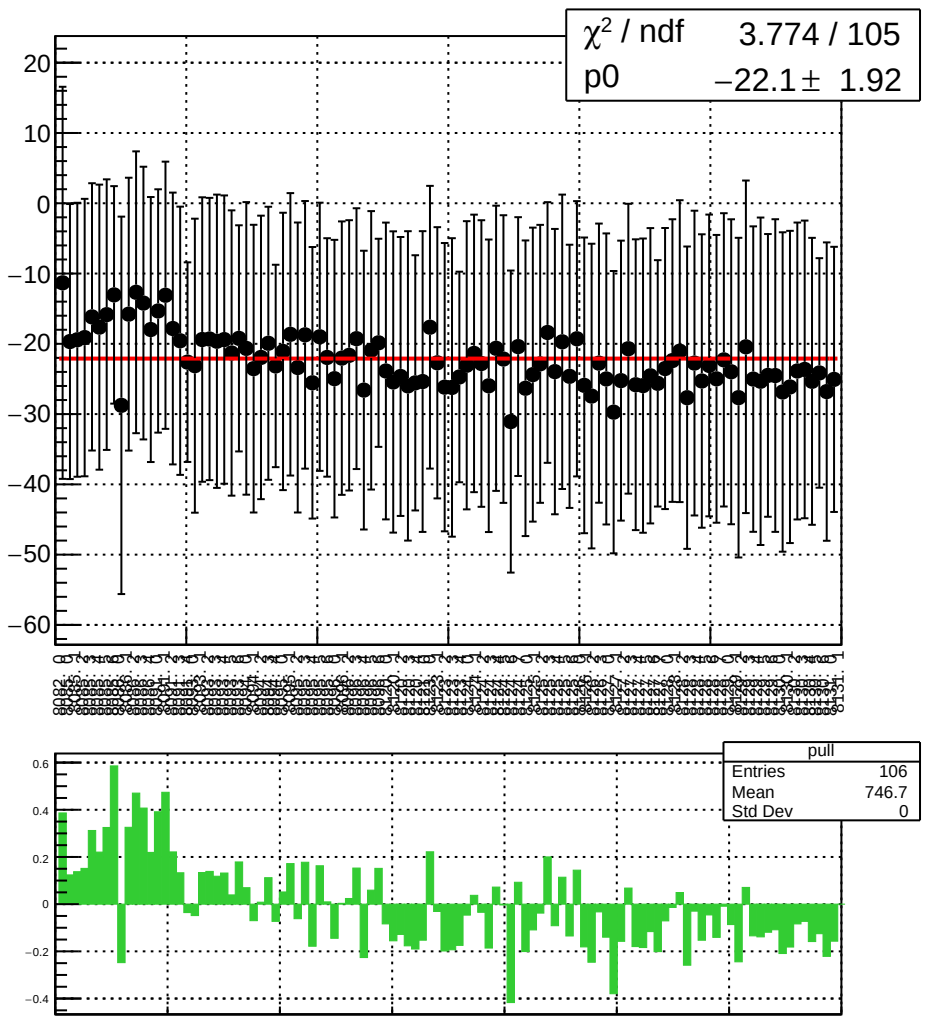

pull1D
Entries 106
Mean −0.00693
Std Dev 0.1876
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

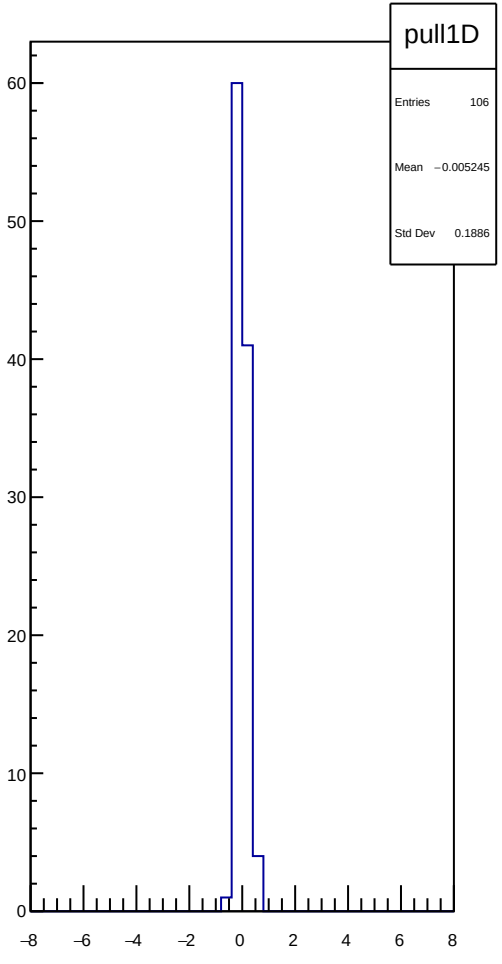

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.643 / 105
p0 36.06 ± 1.645
pull
Entries 106
Mean 282.1
Std Dev 0
pull1D
Entries 106
Mean 0.007986
Std Dev 0.2306

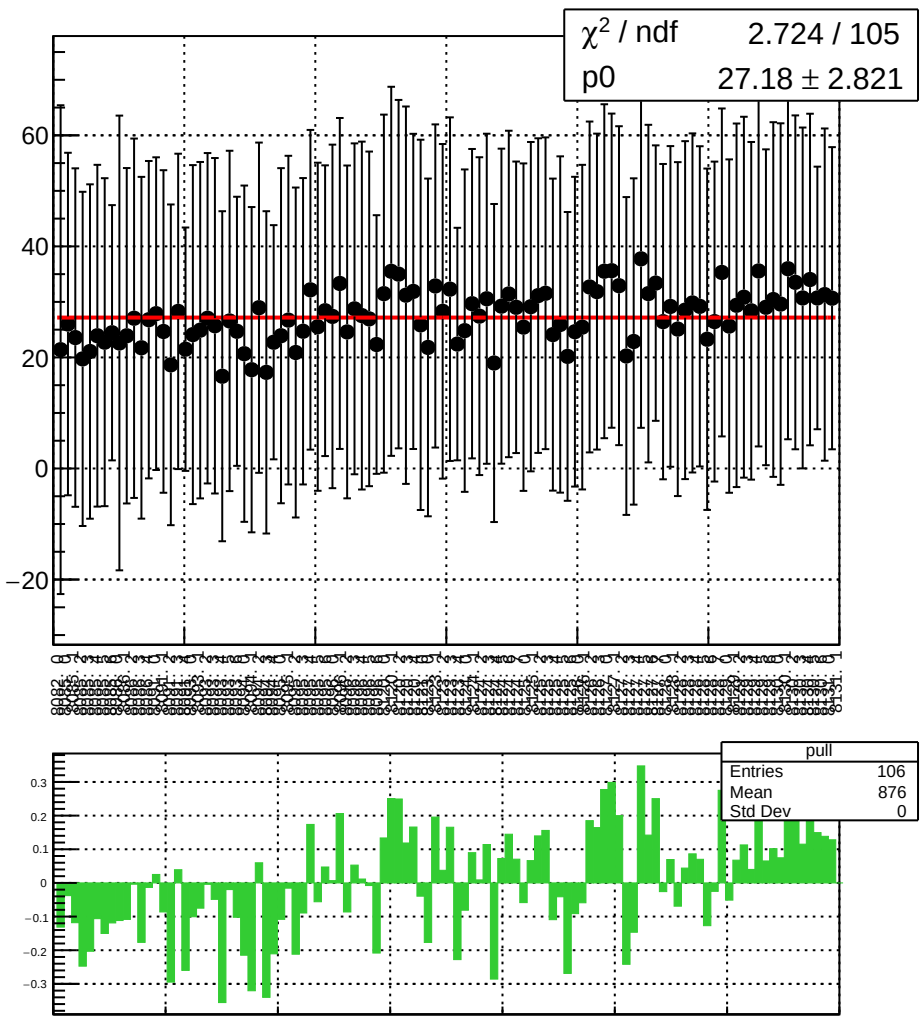

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.103 / 105
p0 −42.58 ± 1.064
pull
Entries 106
Mean 881
Std Dev 0
pull1D
Entries 106
Mean 0.003227
Std Dev 0.1711

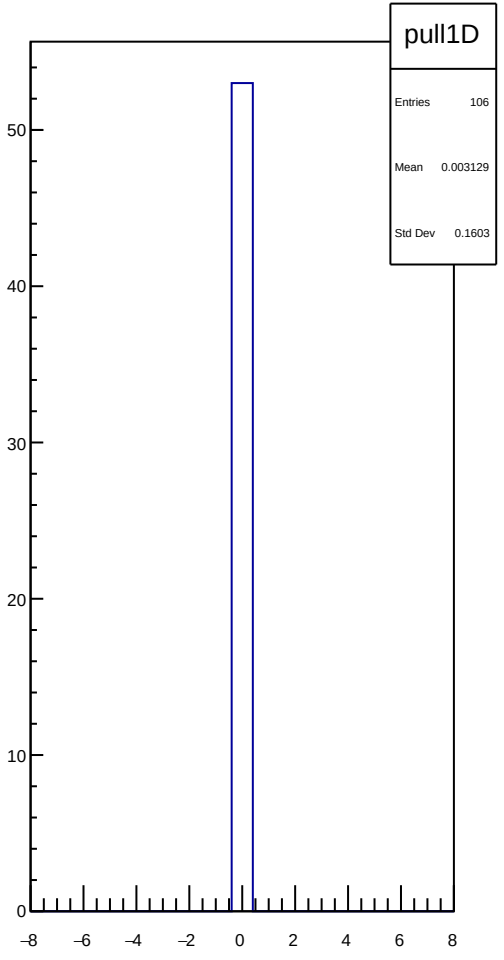

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.817 / 105
p0 48.87 ± 1.757
pull
Entries 106
Mean 160
Std Dev 0
pull1D
Entries 106
Mean −0.006249
Std Dev 0.2131

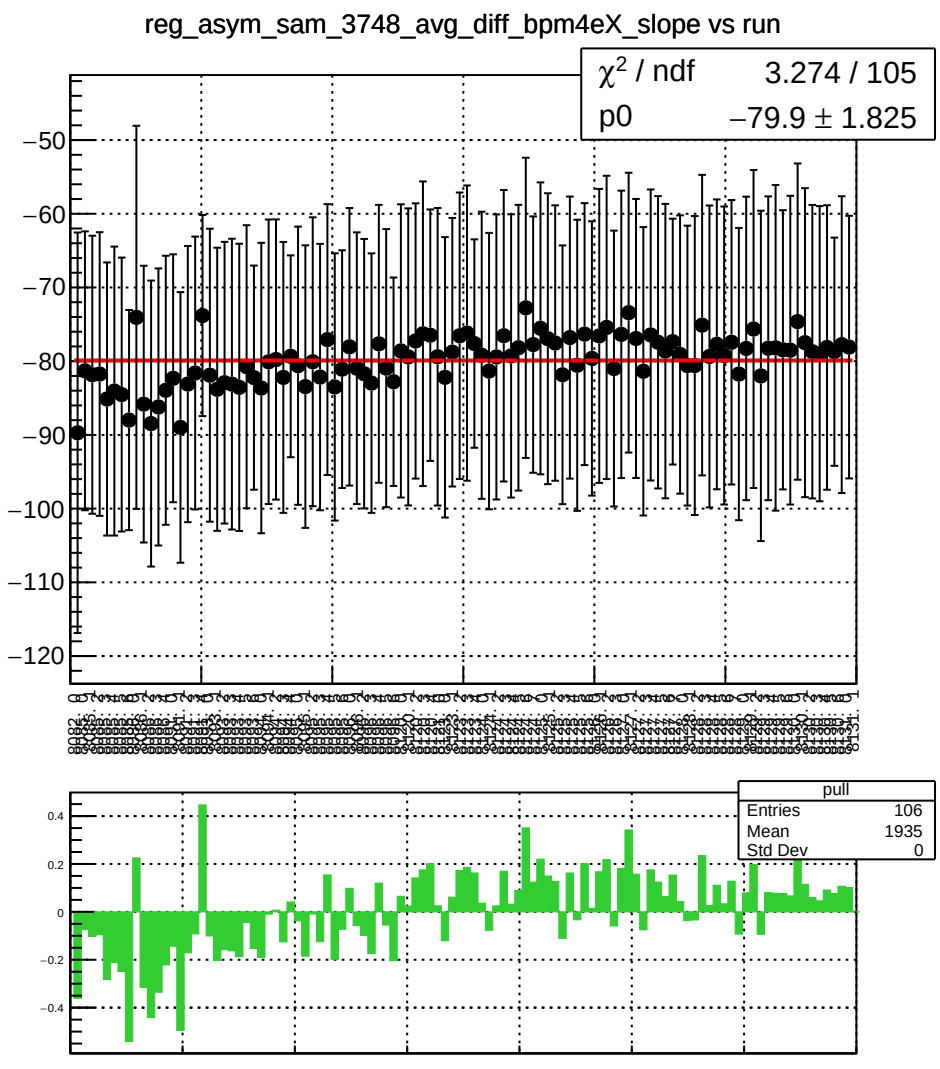

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 5.526 / 105
p0 −0.7505 ± 0.06711
pull
Entries 106
Mean 635.4
Std Dev 0
pull1D
Entries 106
Mean −0.002474
Std Dev 0.2283

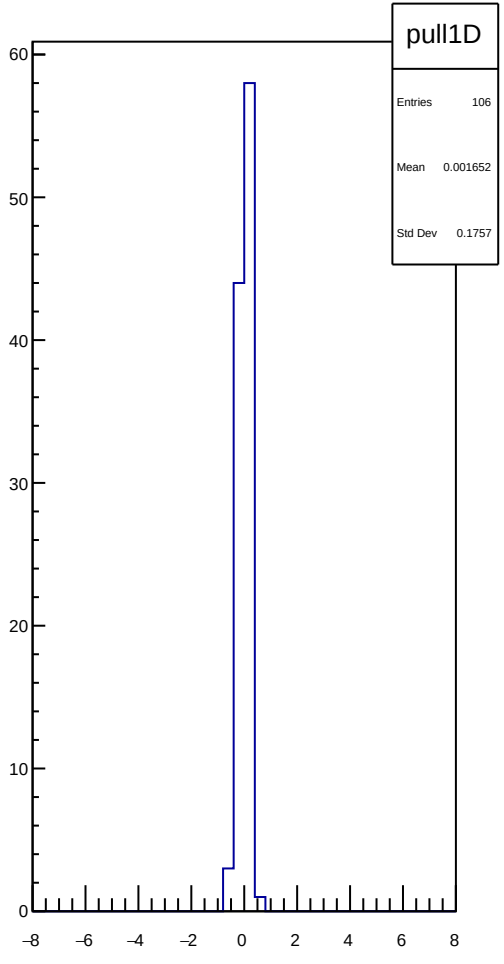

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 3.774 / 105
p0 −22.1 ± 1.92
pull
Entries 106
Mean 746.7
Std Dev 0

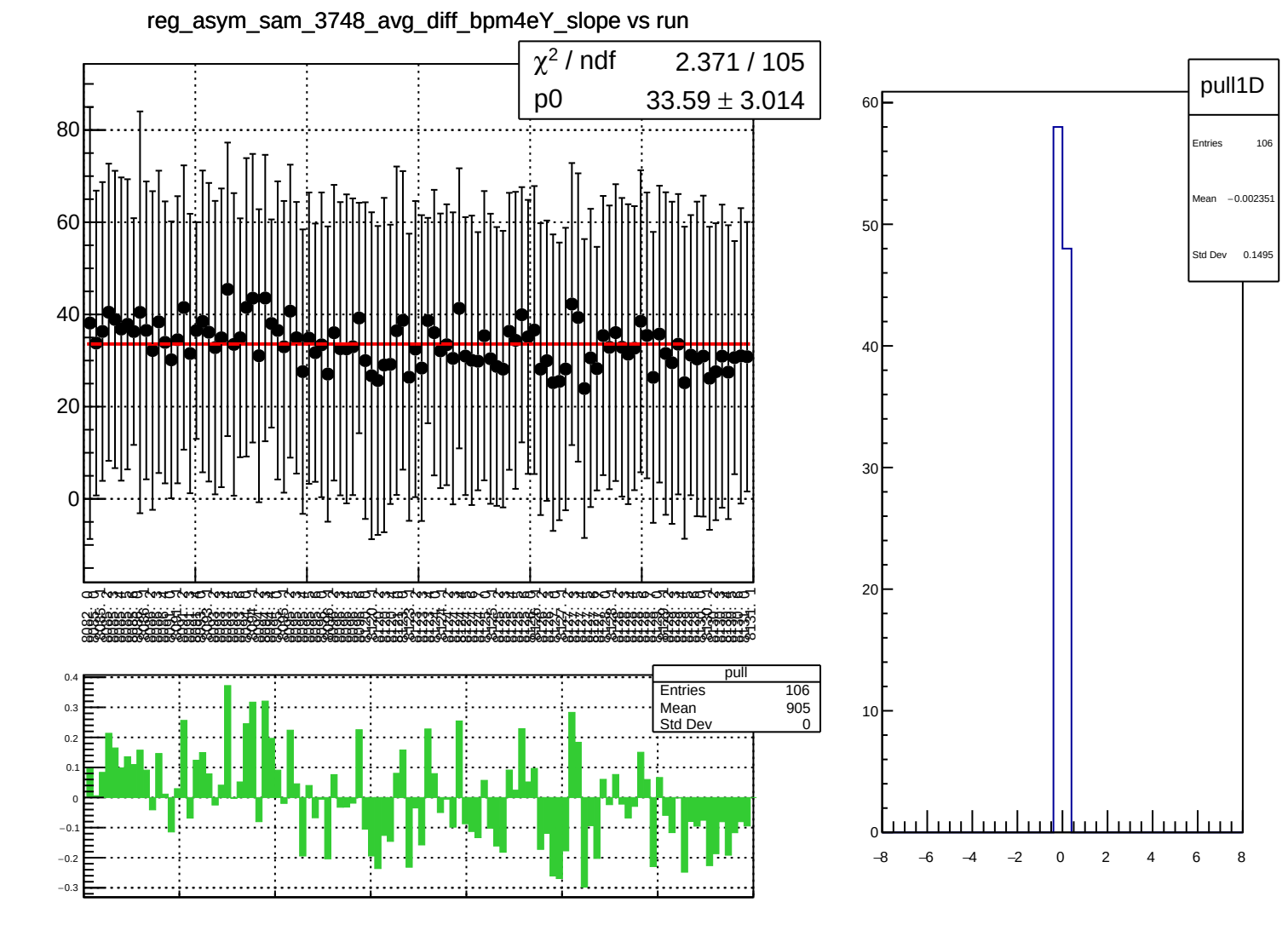

pull1D
Entries 106
Mean −0.005245
Std Dev 0.1886

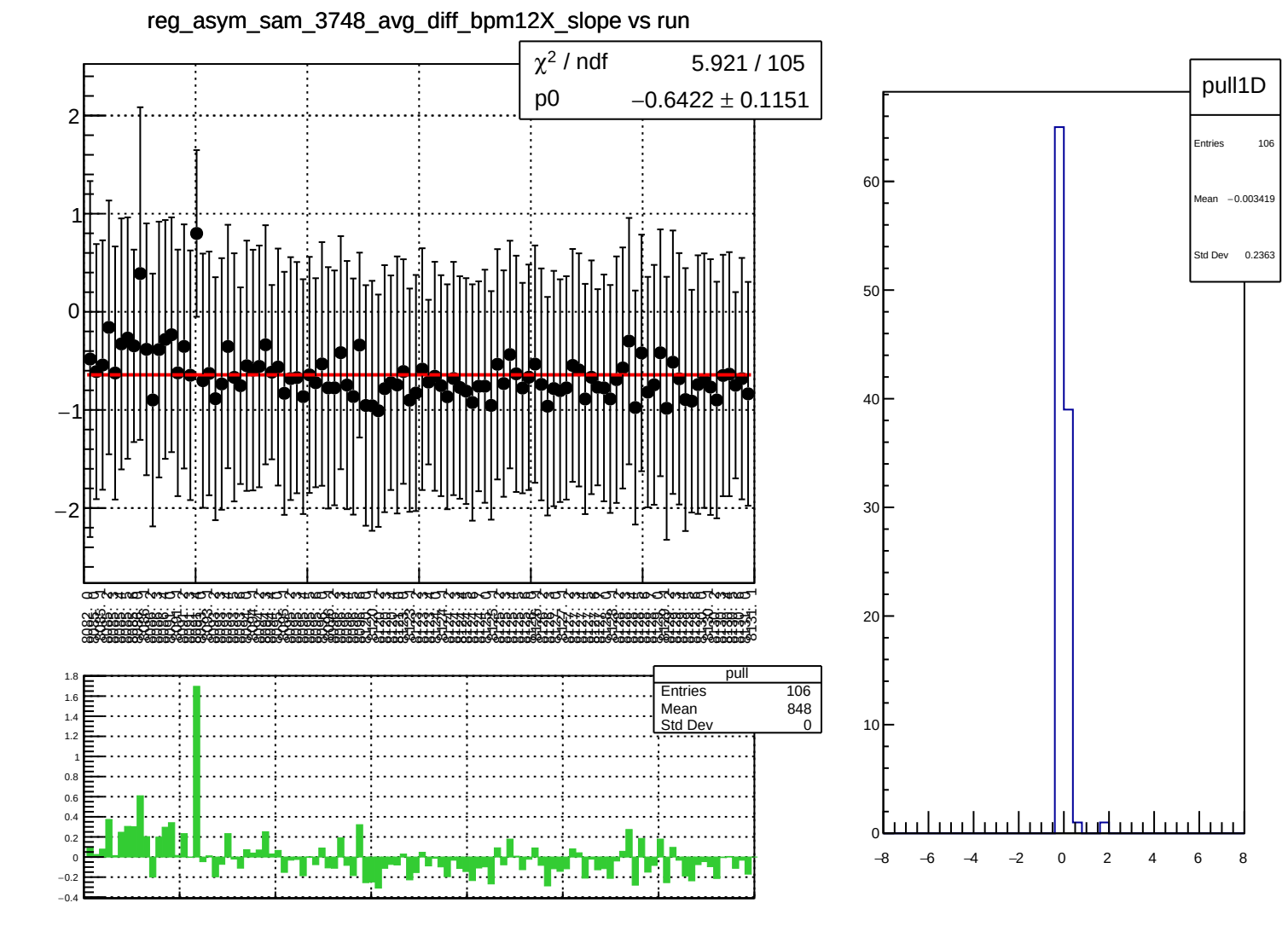

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 2.724 / 105
p0 27.18 ± 2.821
pull
Entries 106
Mean 876
Std Dev 0

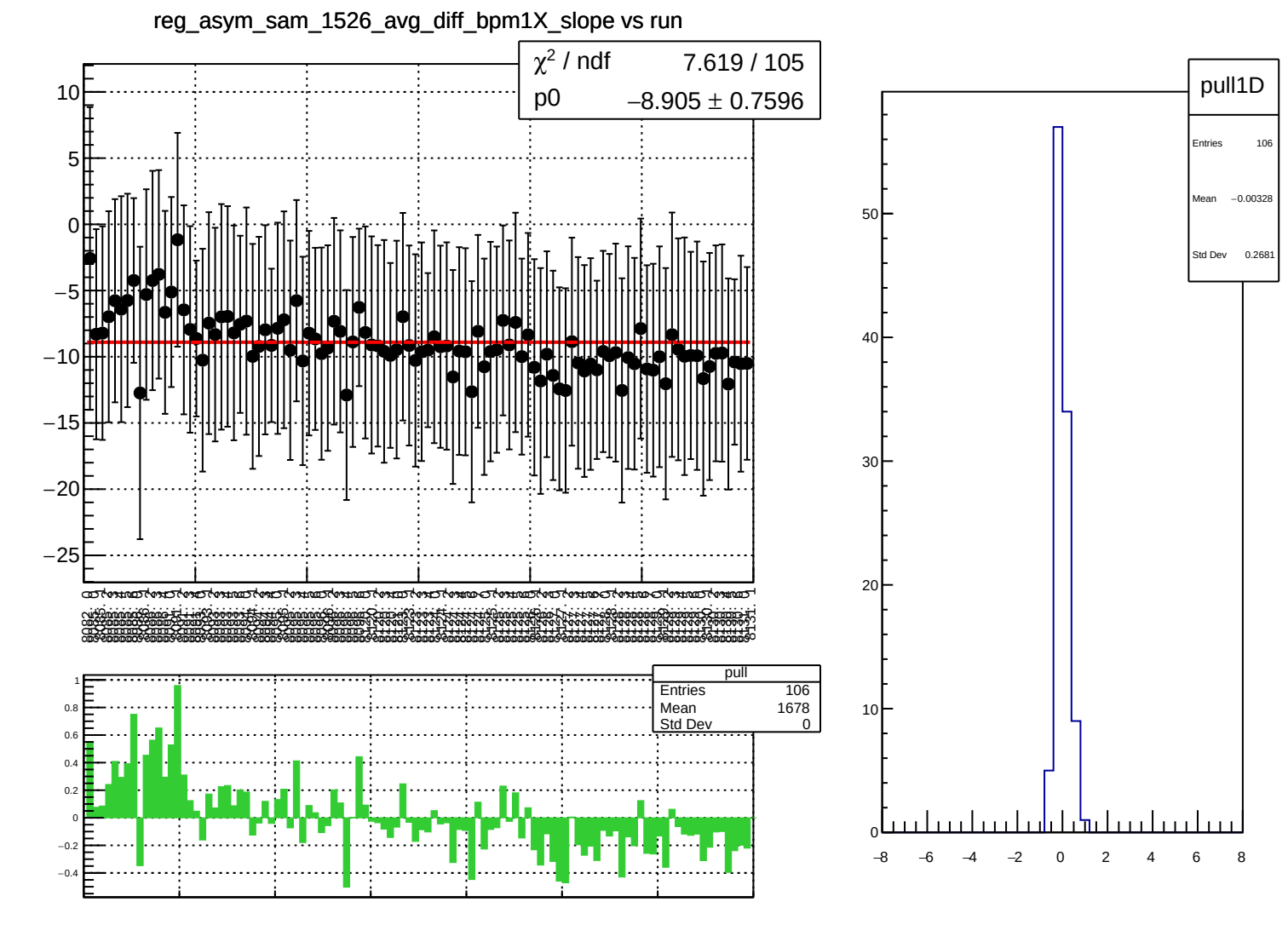

pull1D
Entries 106
Mean 0.003129
Std Dev 0.1603

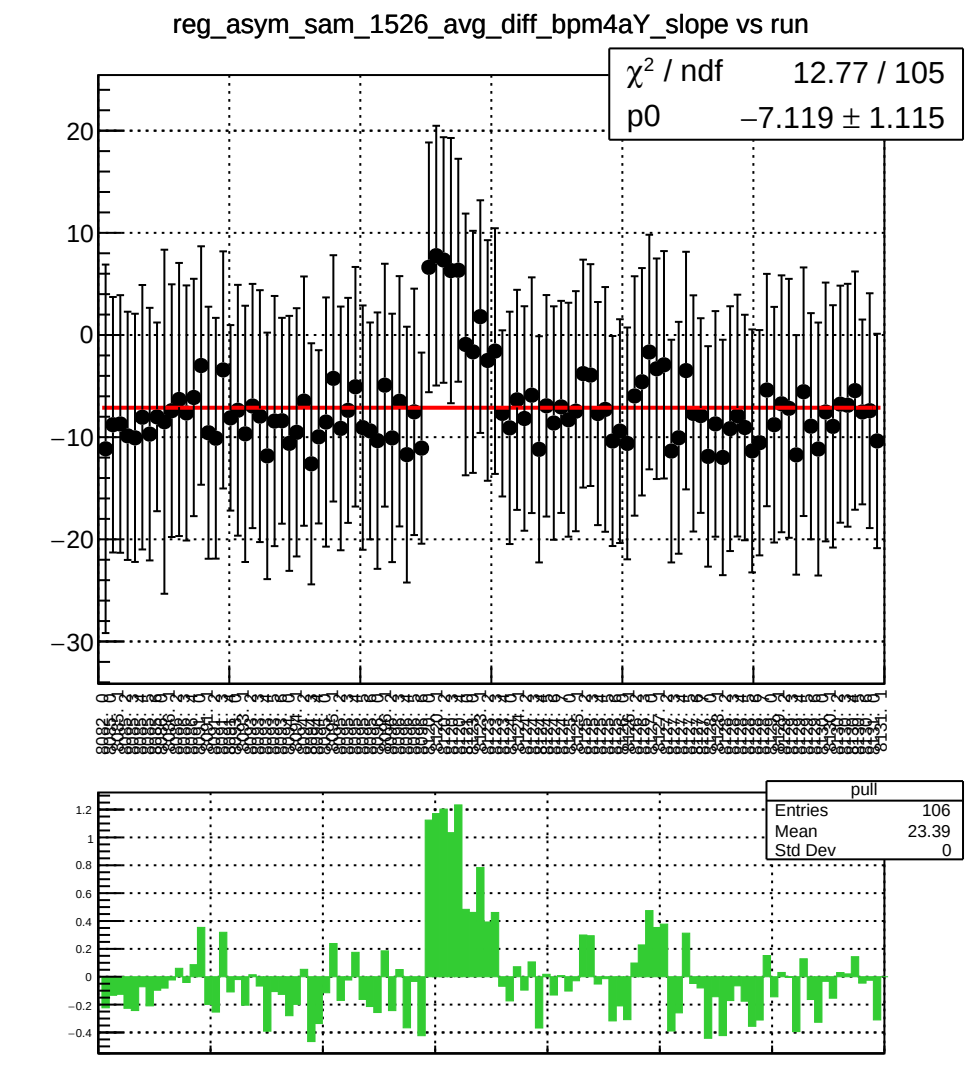

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.274 / 105
p0 −79.9 ± 1.825
−50
−60
−70
−80
−90
−100
−110
−120
pull
Entries 106
Mean 1935
Std Dev 0
0.4
0.2
0
−0.2
−0.4

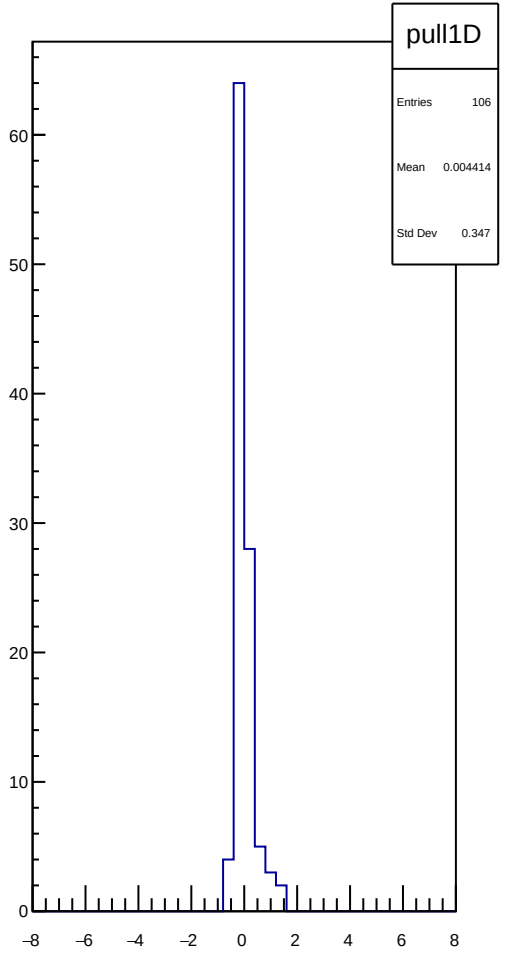

pull1D
Entries 106
Mean 0.001652
Std Dev 0.1757
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

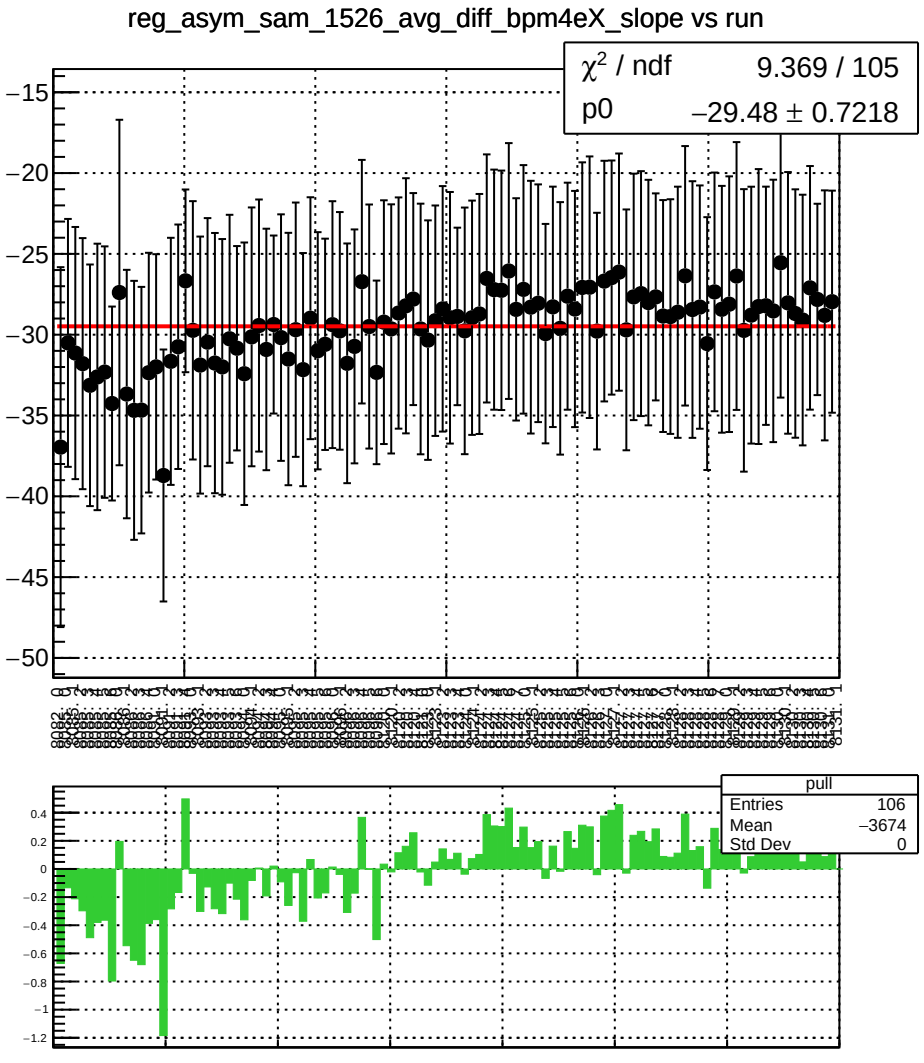

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.371 / 105
p0 33.59 ± 3.014
pull
Entries 106
Mean 905
Std Dev 0
pull1D
Entries 106
Mean −0.002351
Std Dev 0.1495

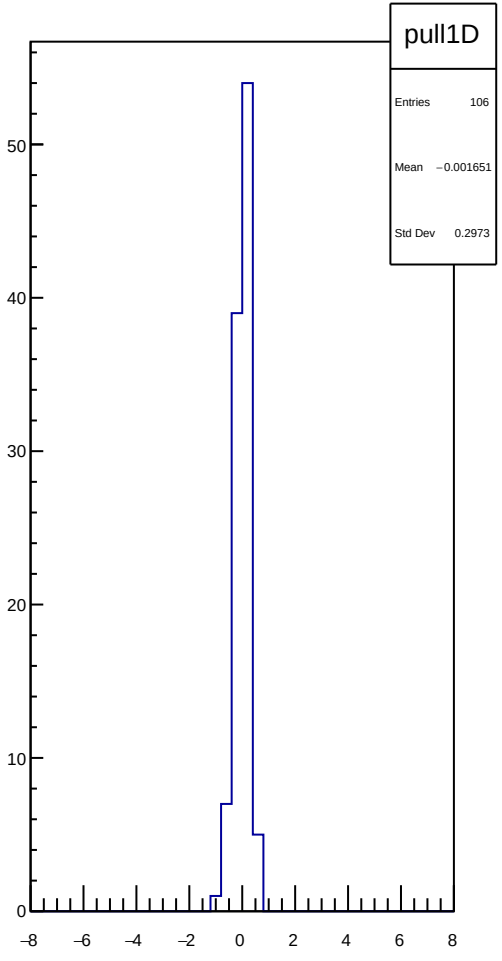

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 5.921 / 105
p0 −0.6422 ± 0.1151
pull
Entries 106
Mean 848
Std Dev 0
pull1D
Entries 106
Mean −0.003419
Std Dev 0.2363

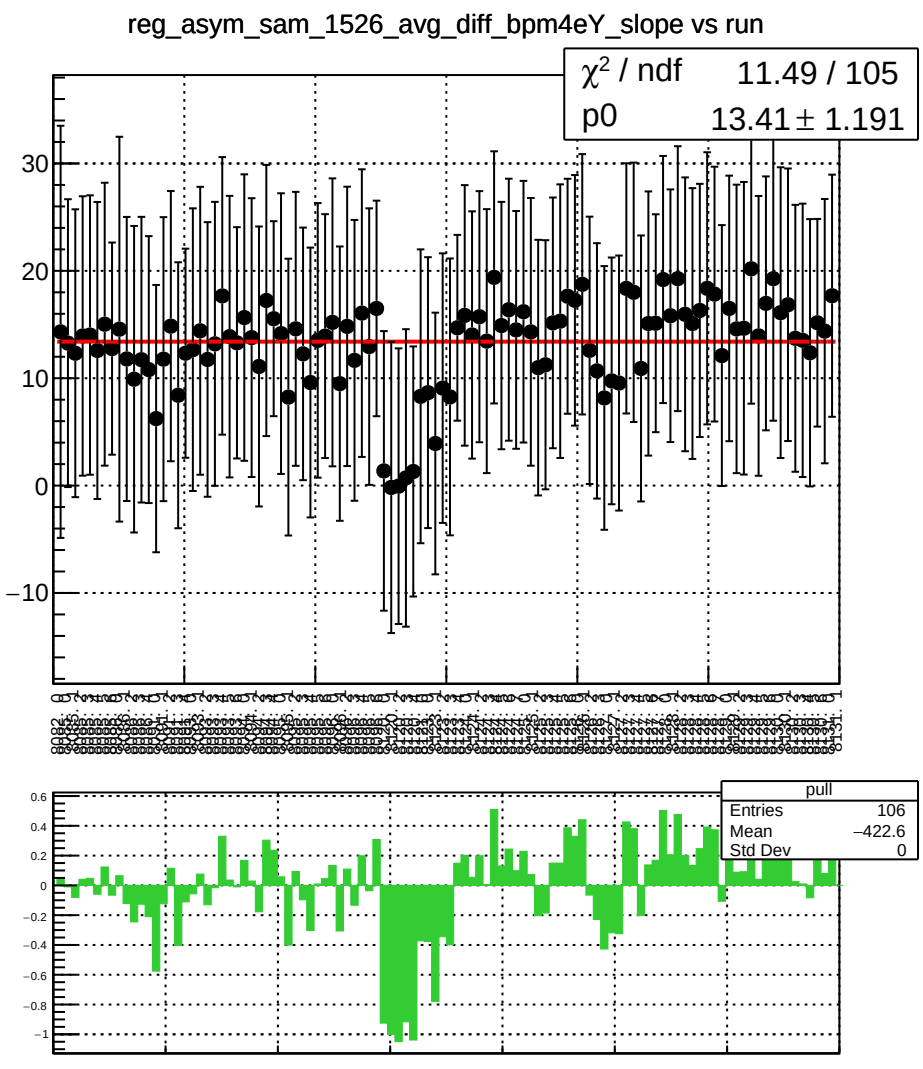

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 7.619 / 105
p0 −8.905 ± 0.7596
pull
Entries 106
Mean 1678
Std Dev 0
pull1D
Entries 106
Mean −0.00328
Std Dev 0.2681

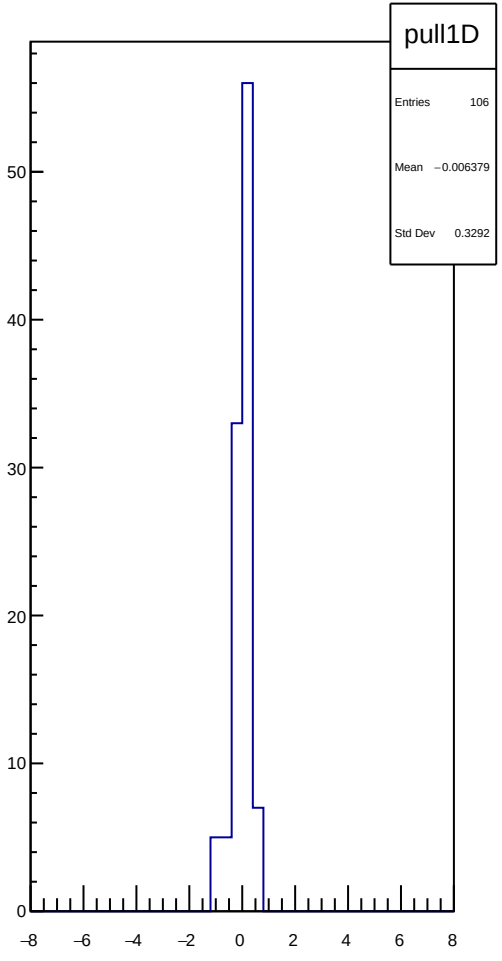

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 12.77 / 105
p0 −7.119 ± 1.115
20
10
0
−10
−20
−30
pull
Entries 106
Mean 23.39
Std Dev 0
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4

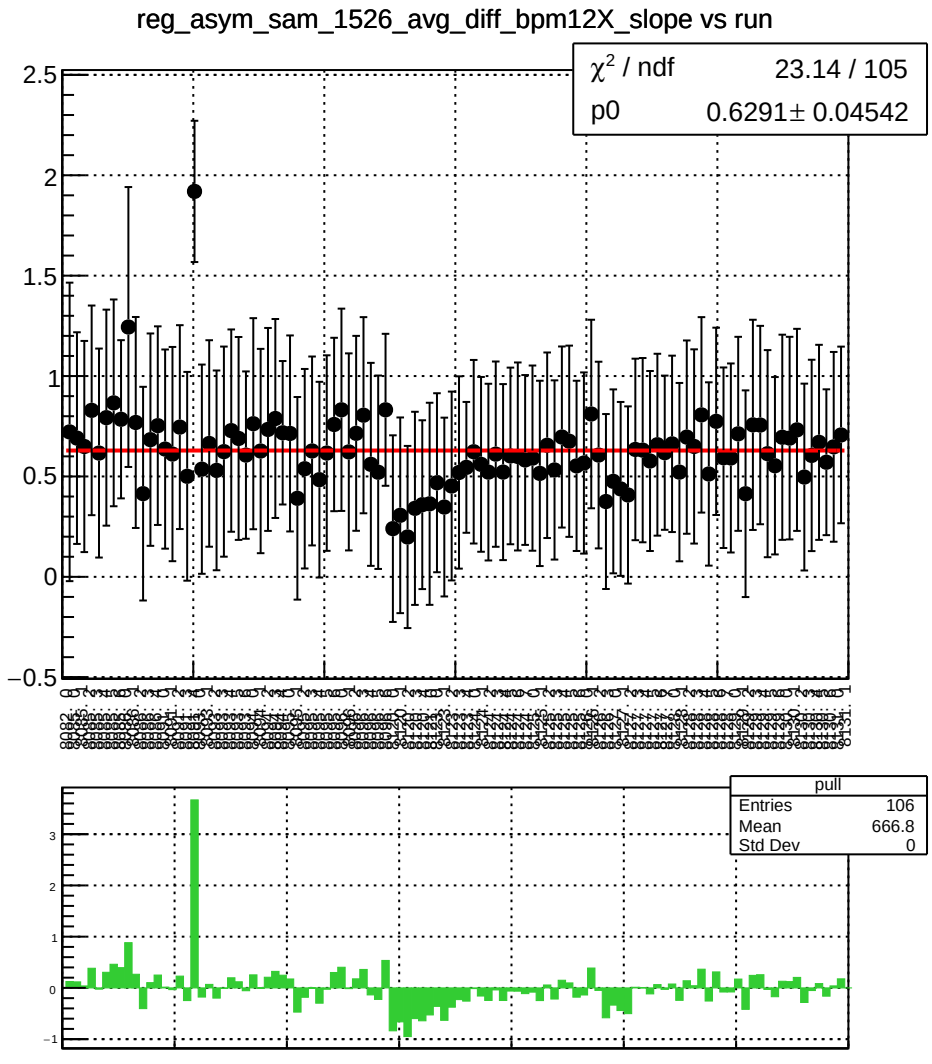

pull1D
Entries 106
Mean 0.004414
Std Dev 0.347
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

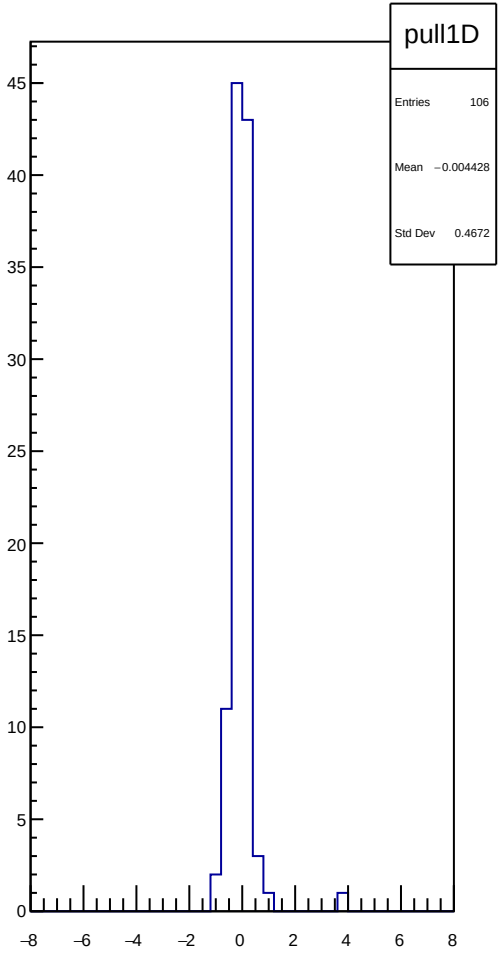

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.369 / 105
p0 −29.48 ± 0.7218
pull
Entries 106
Mean −3674
Std Dev 0

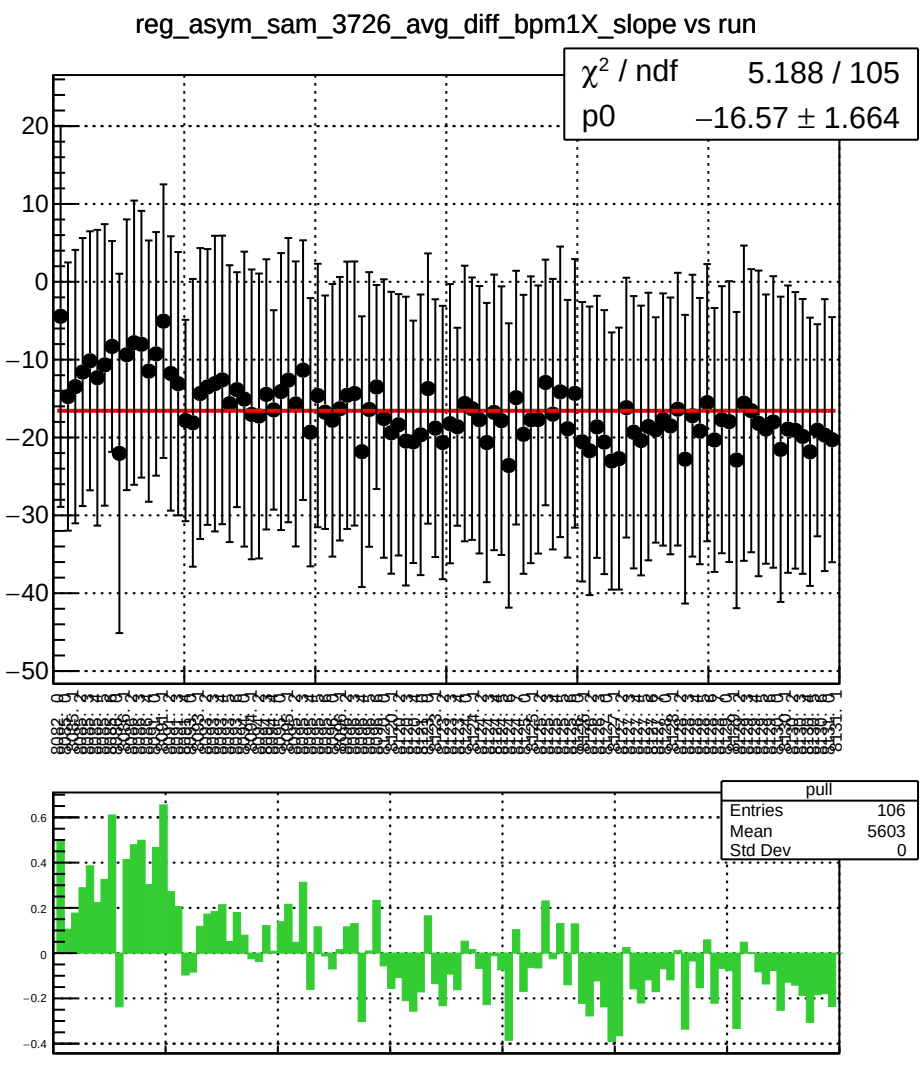

pull1D
Entries 106
Mean −0.001651
Std Dev 0.2973

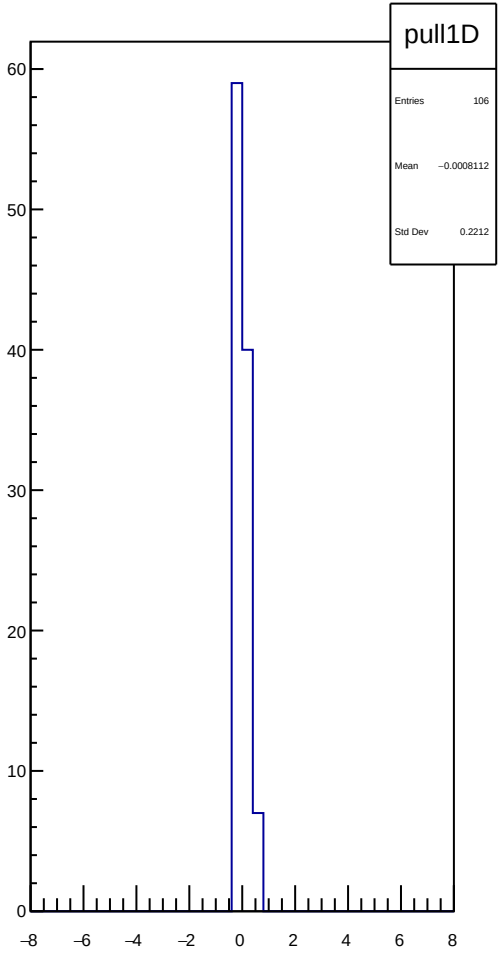

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 11.49 / 105
p0 13.41 ± 1.191
30
20
10
0
−10
pull
Entries 106
Mean −422.6
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

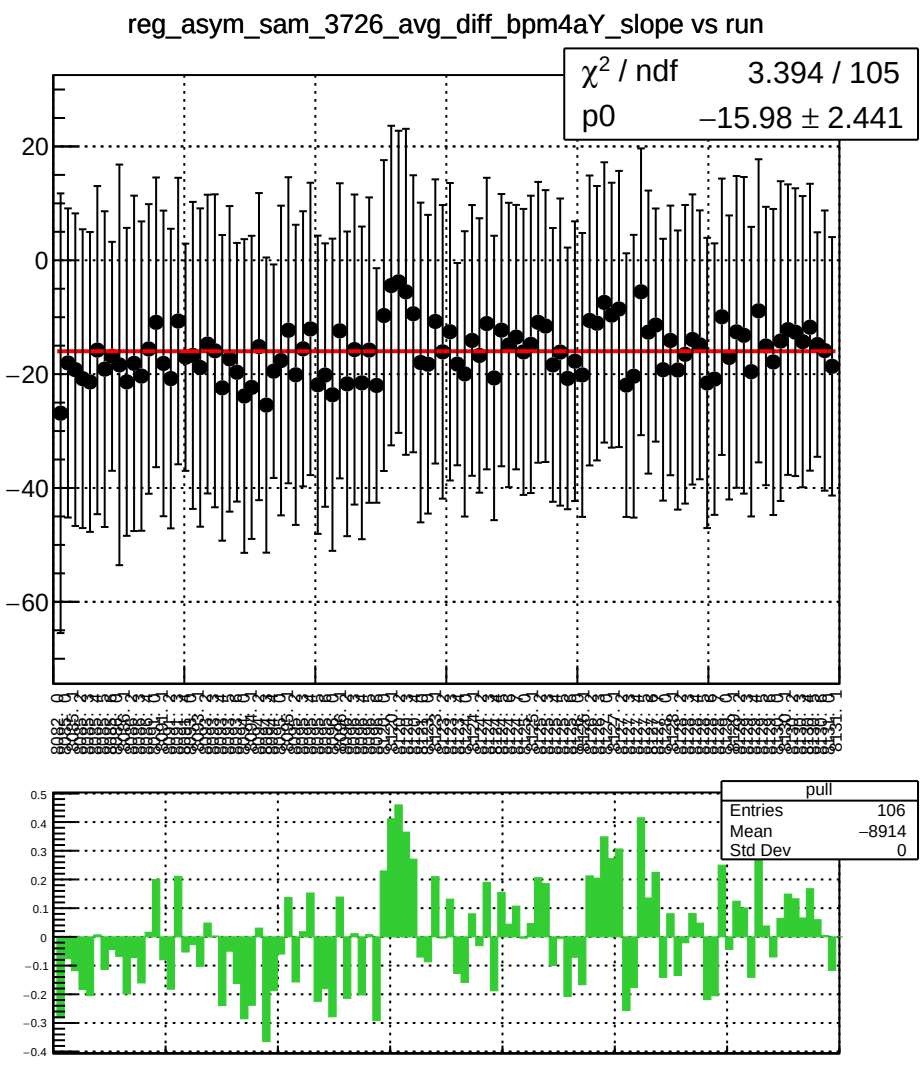

pull1D
Entries 106
Mean −0.006379
Std Dev 0.3292
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

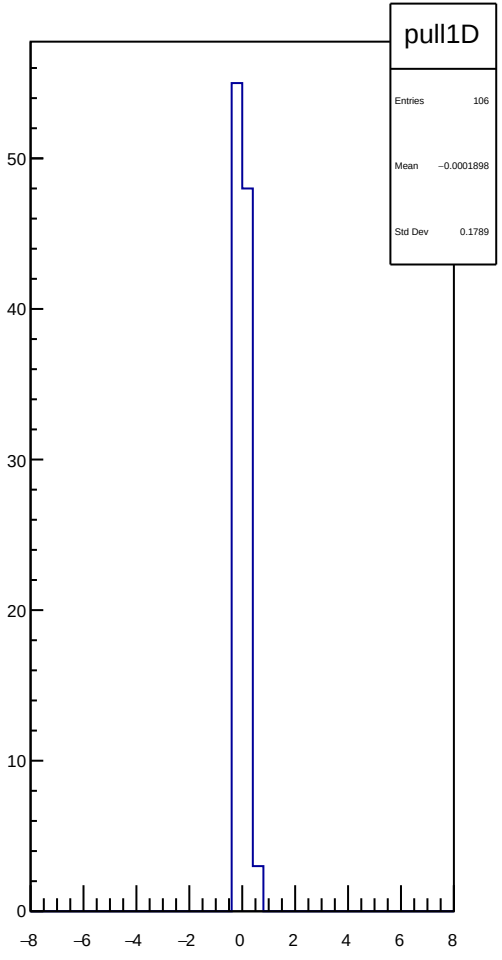

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 23.14 / 105
p0 0.6291± 0.04542
pull
Entries 106
Mean 666.8
Std Dev 0

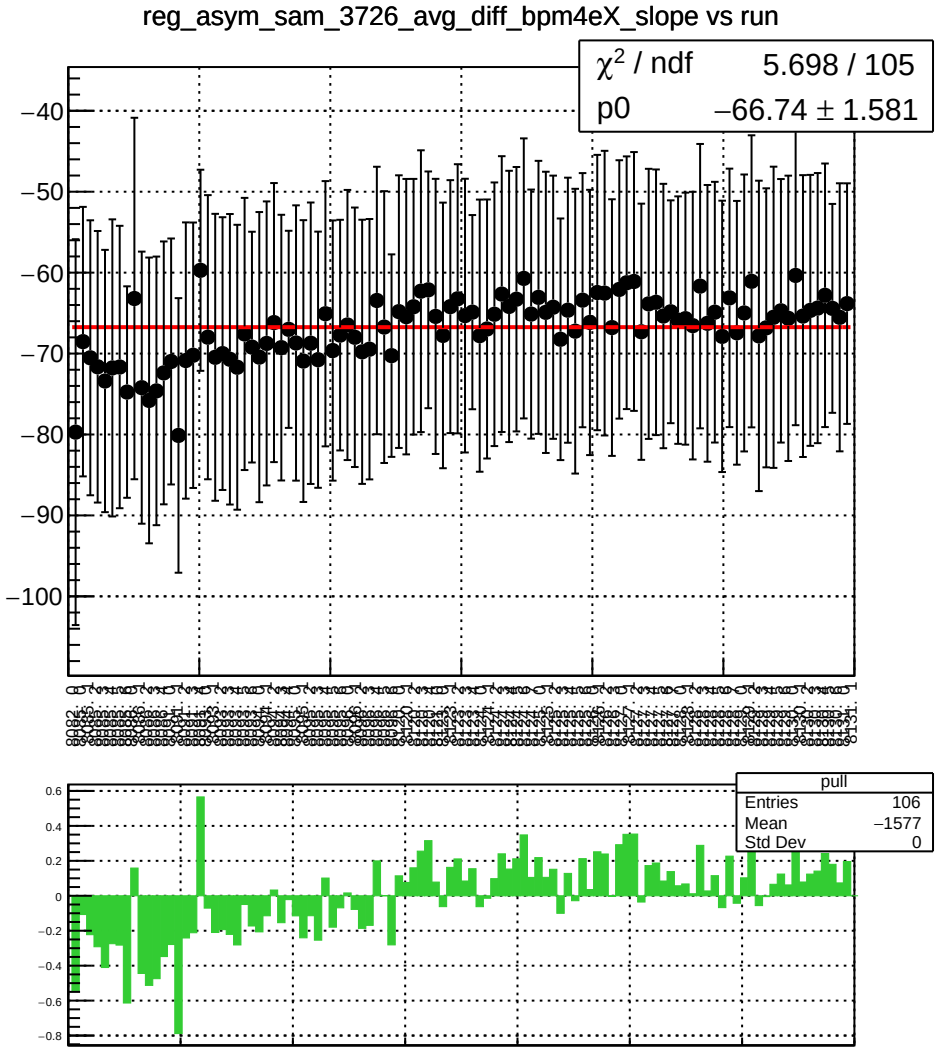

pull1D
Entries 106
Mean −0.004428
Std Dev 0.4672

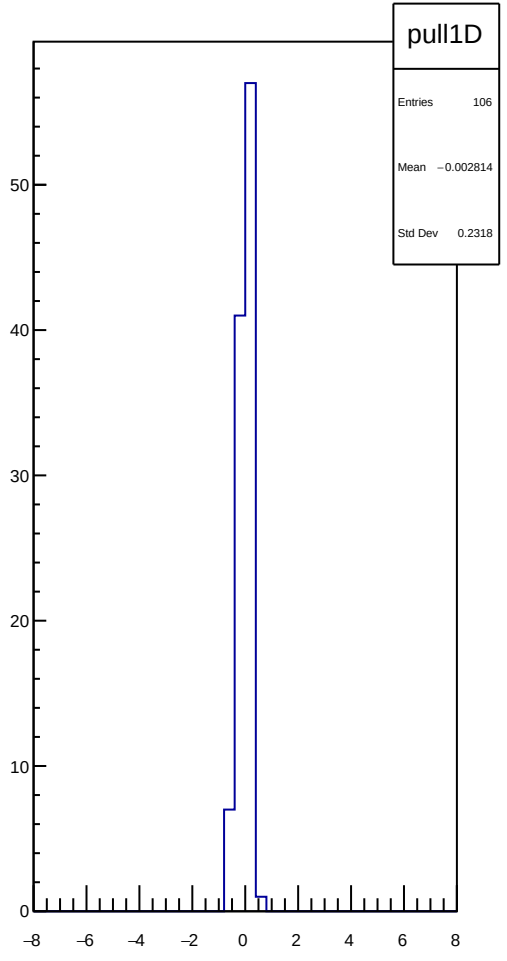

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 5.188 / 105
p0 −16.57 ± 1.664
pull
Entries 106
Mean 5603
Std Dev 0

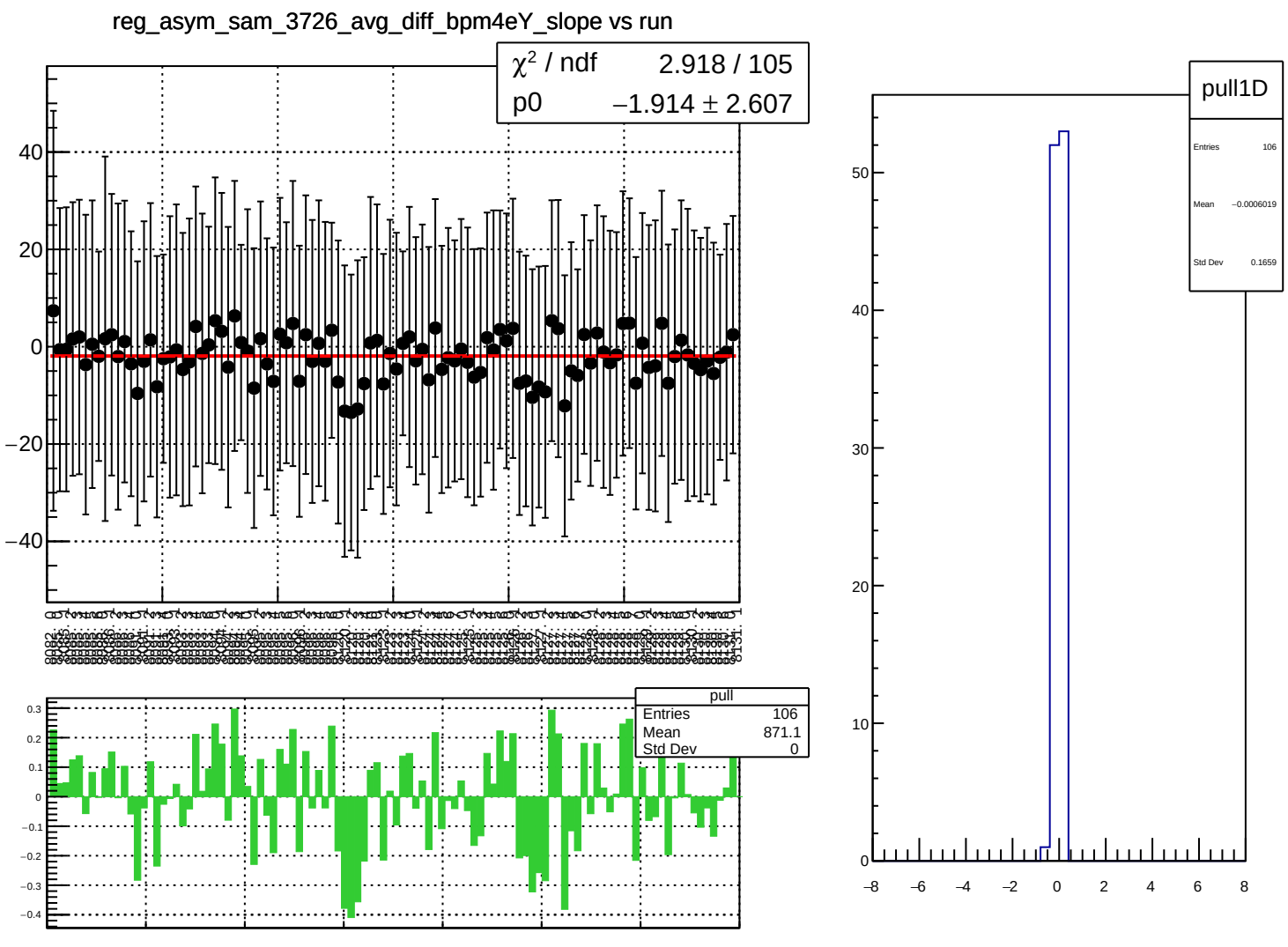

pull1D
Entries 106
Mean −0.0008112
Std Dev 0.2212

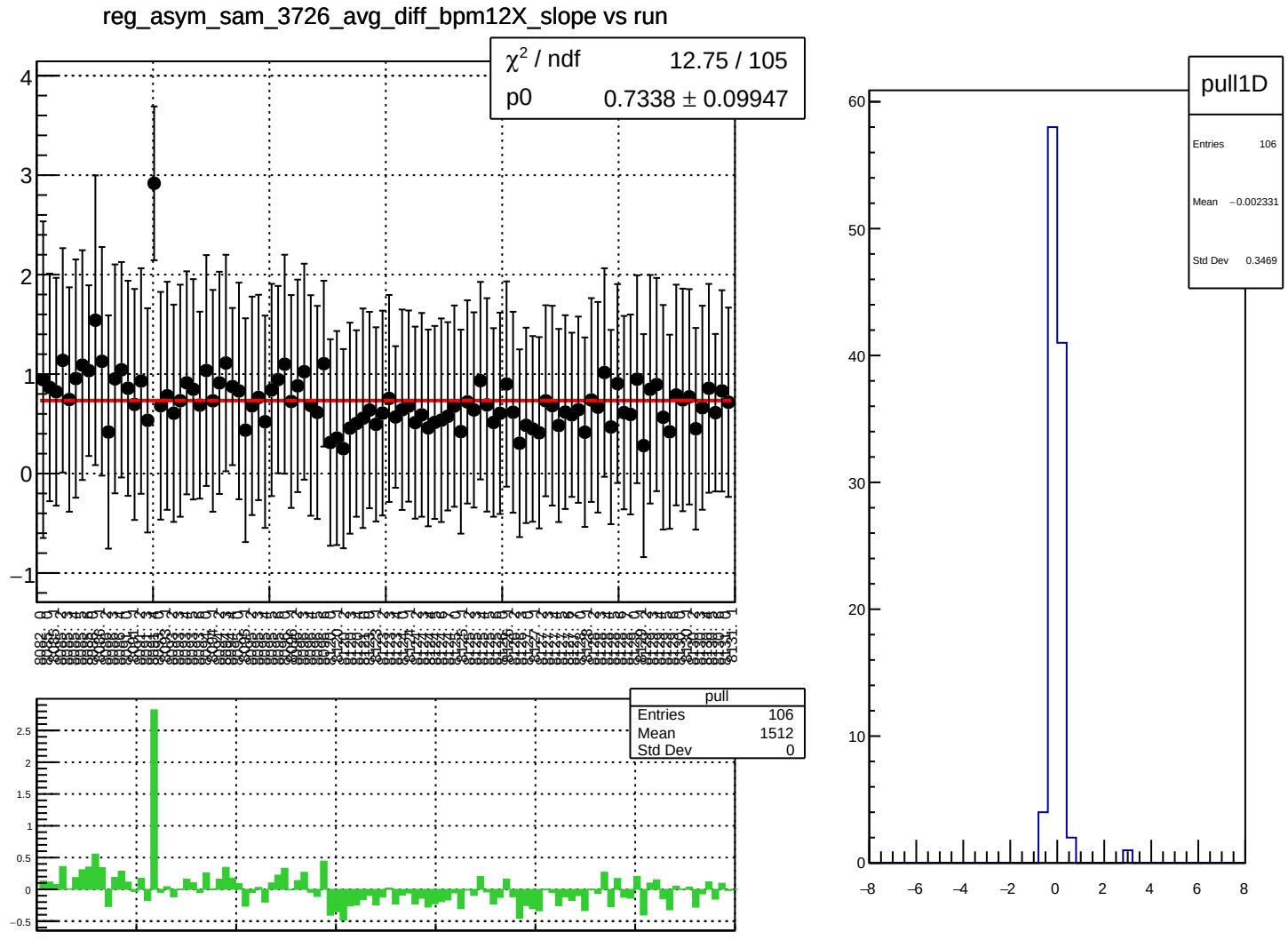

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.394 / 105
p0 −15.98 ± 2.441
20
0
−20
−40
−60
pull
Entries 106
Mean −8914
Std Dev 0
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

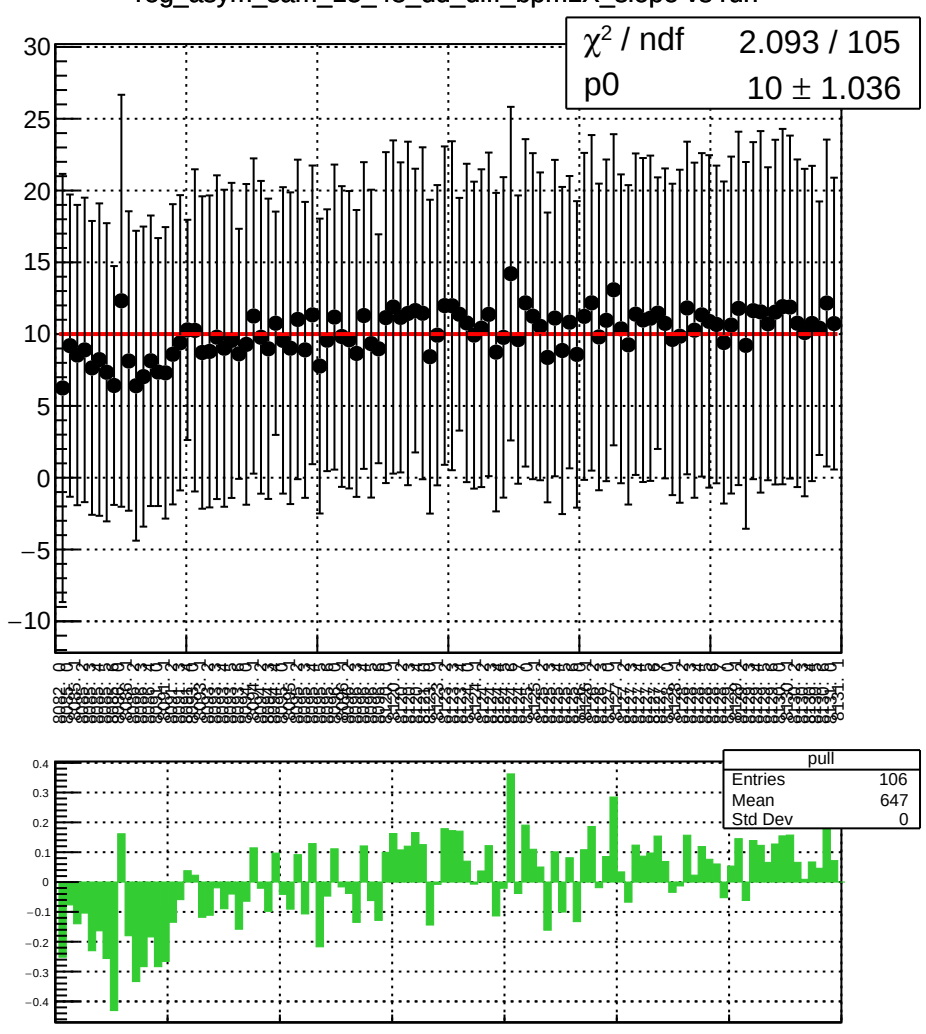

pull1D
Entries 106
Mean −0.0001898
Std Dev 0.1789
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

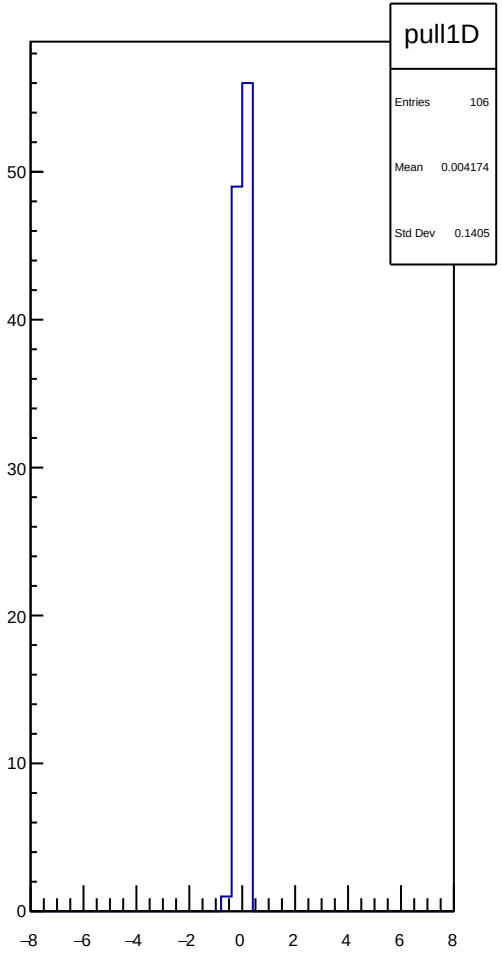

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 5.698 / 105
p0 −66.74 ± 1.581
−40
−50
−60
−70
−80
−90
−100
pull
Entries 106
Mean −1577
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

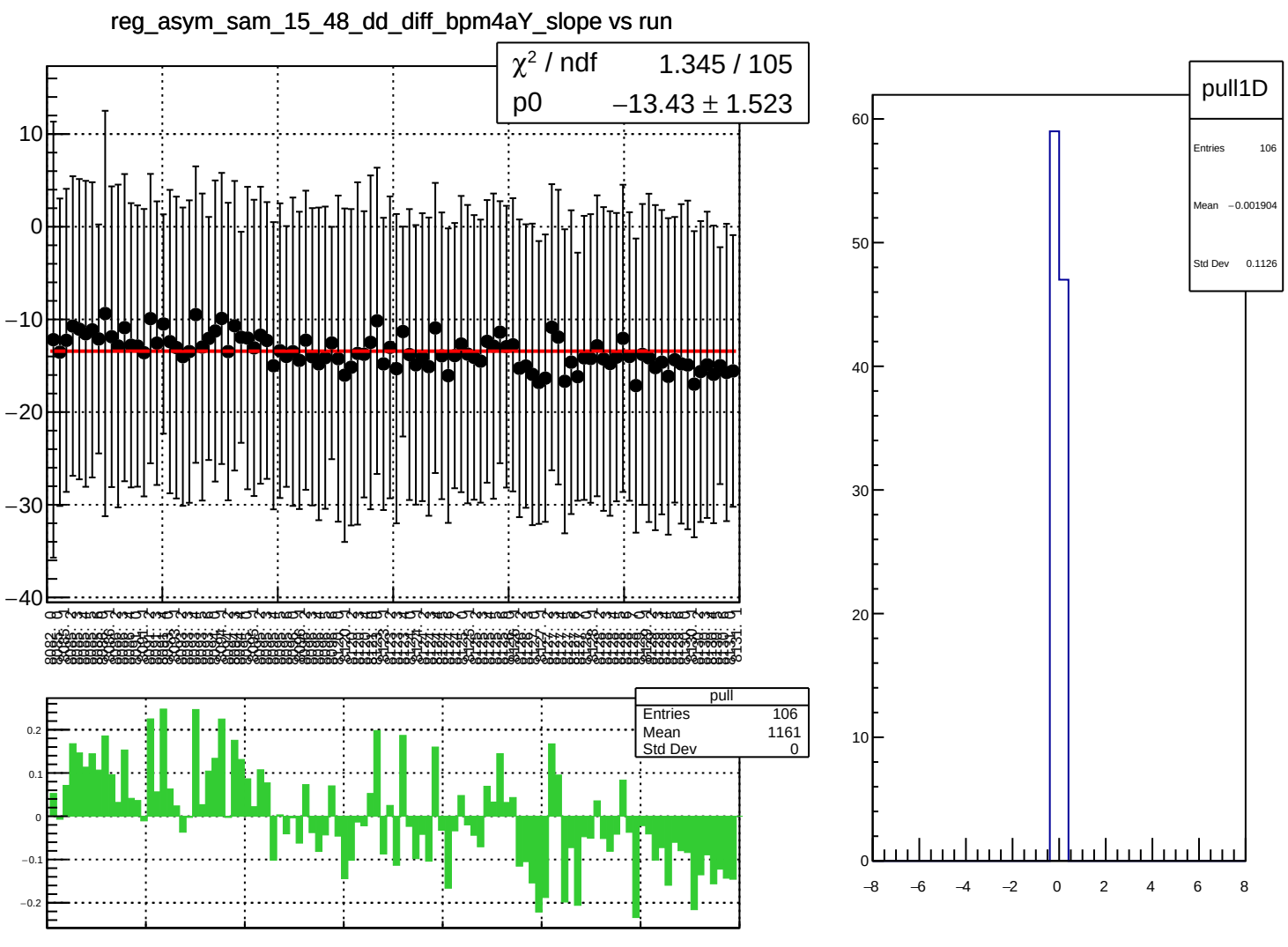

pull1D
Entries 106
Mean −0.002814
Std Dev 0.2318
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

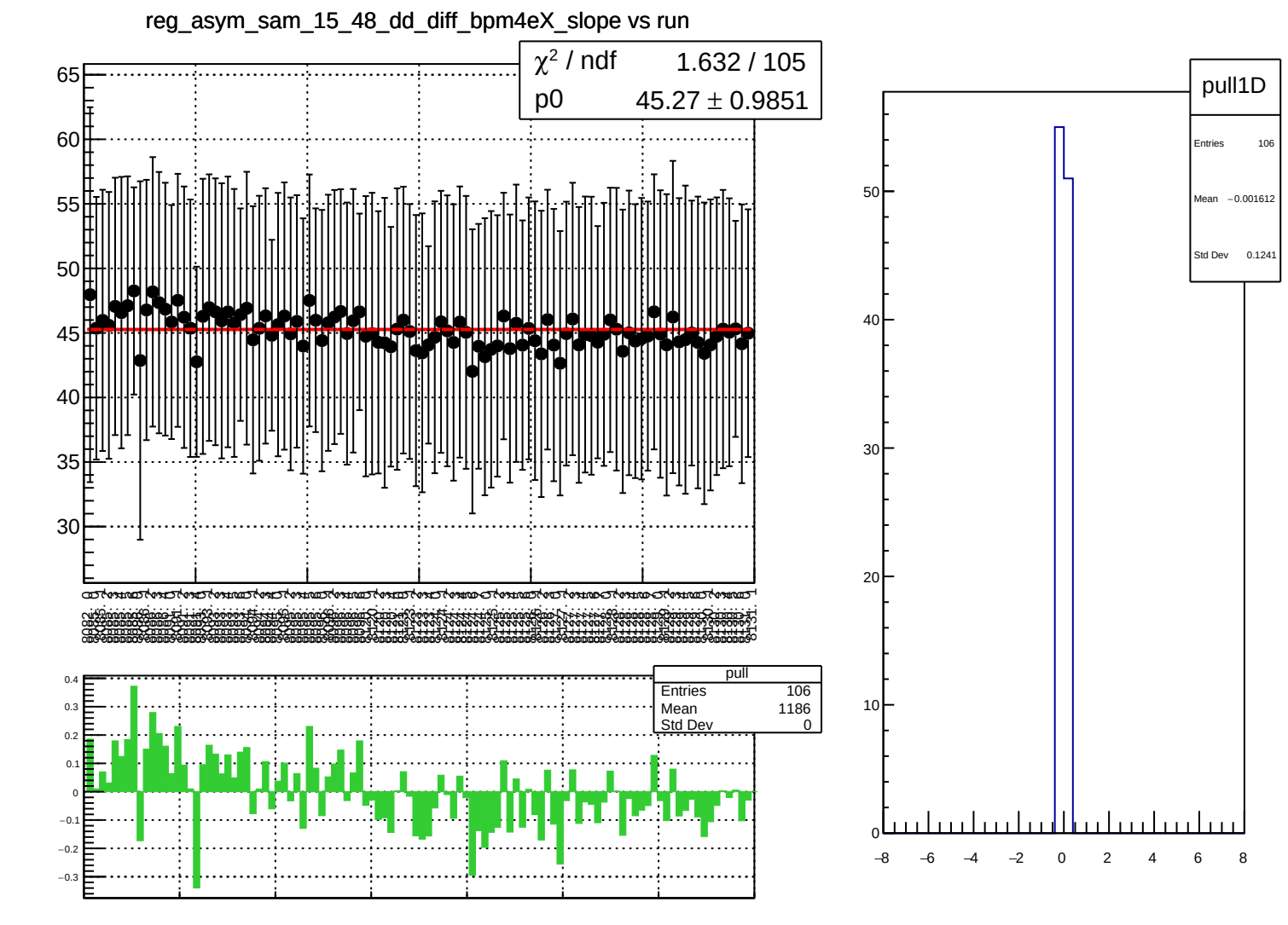

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.918 / 105
p0 −1.914 ± 2.607
40
20
0
−20
−40
pull
Entries 106
Mean 871.1
Std Dev 0
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 106
Mean −0.0006019
Std Dev 0.1659
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

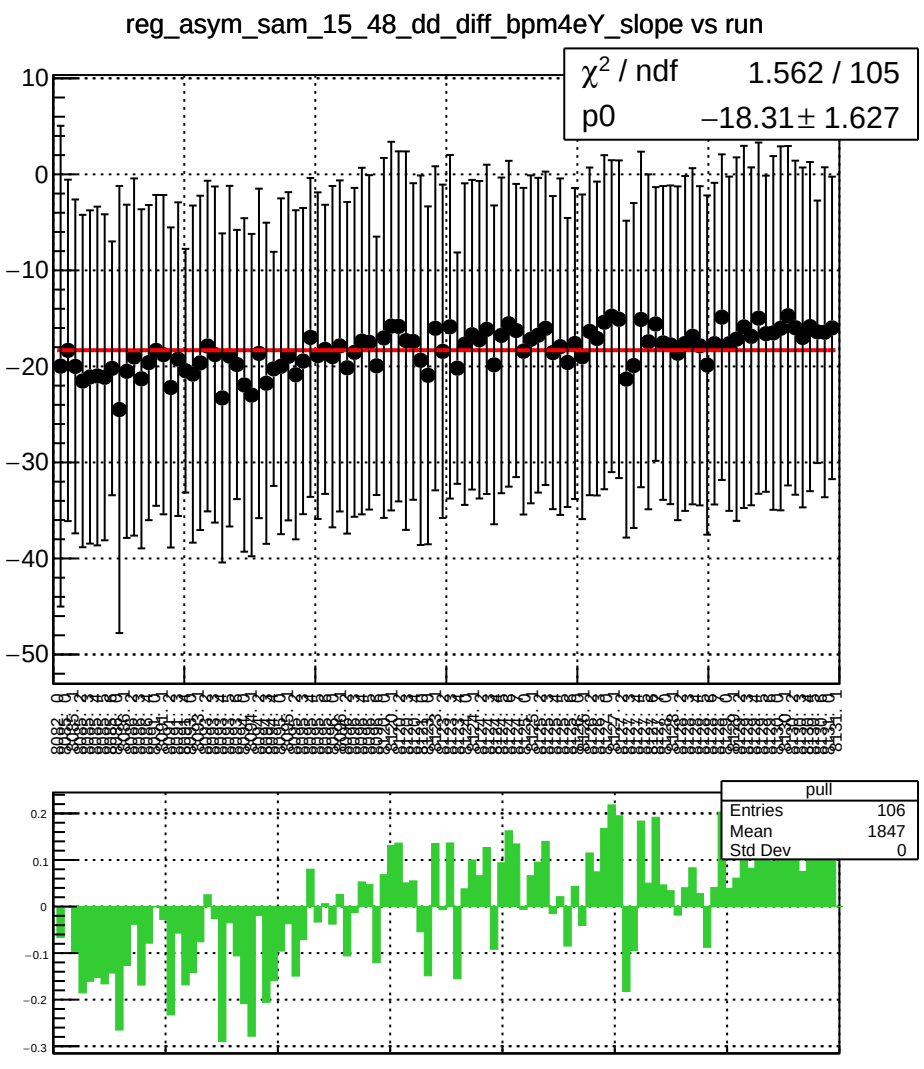

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 12.75 / 105
p0 0.7338 ± 0.09947
pull
Entries 106
Mean 1512
Std Dev 0
pull1D
Entries 106
Mean −0.002331
Std Dev 0.3469

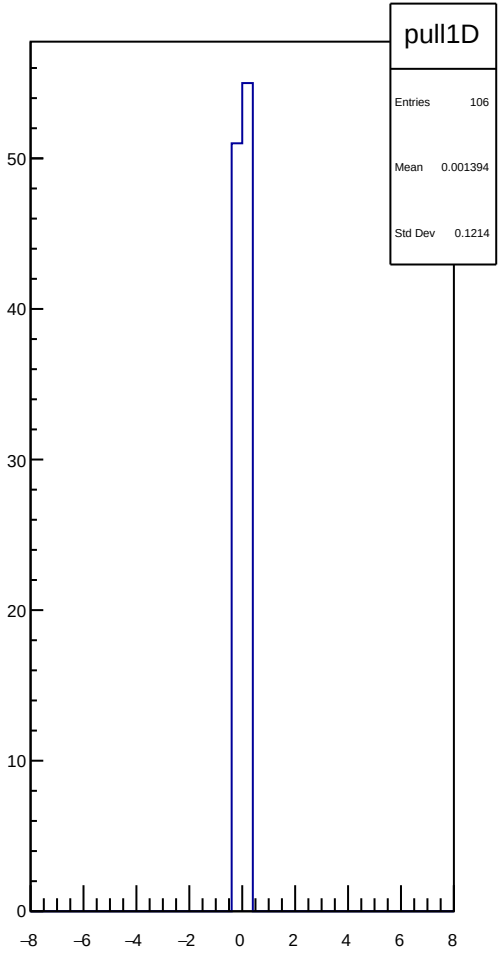

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 2.093 / 105
p0 10 ± 1.036
pull
Entries 106
Mean 647
Std Dev 0

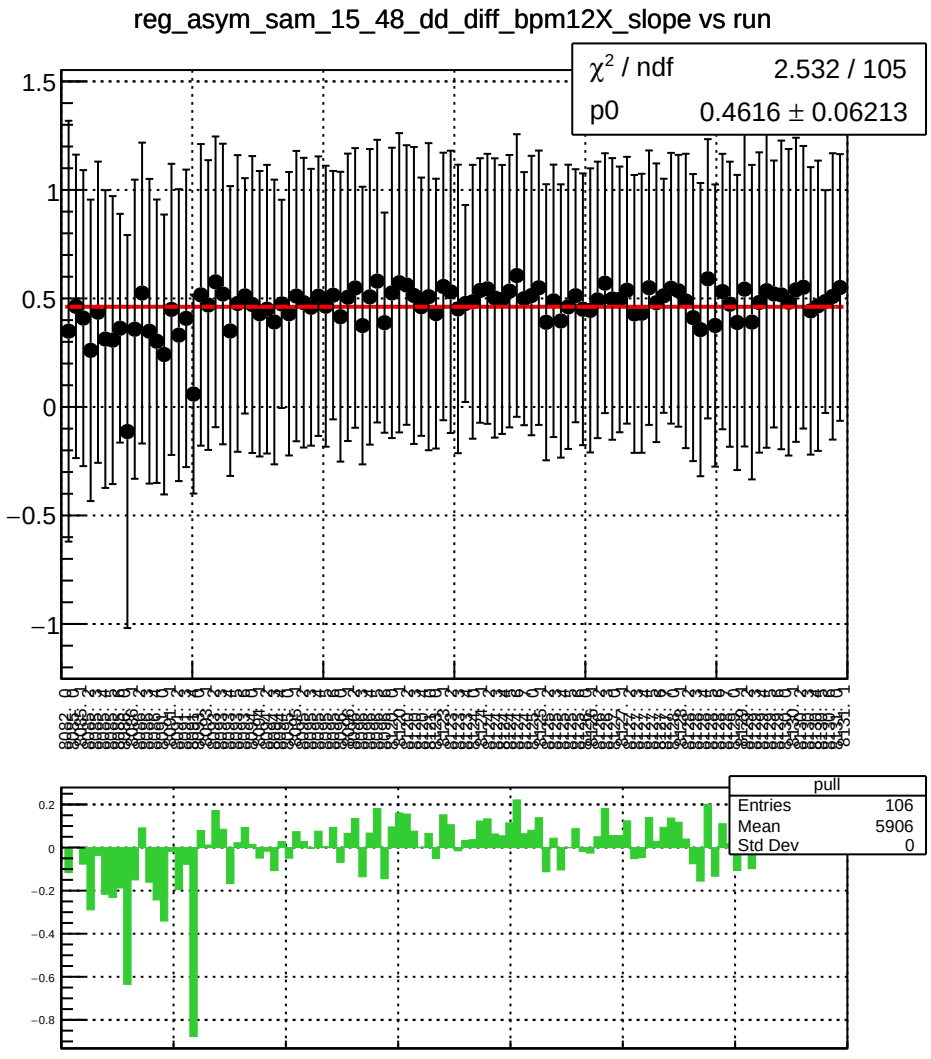

pull1D
Entries 106
Mean 0.004174
Std Dev 0.1405

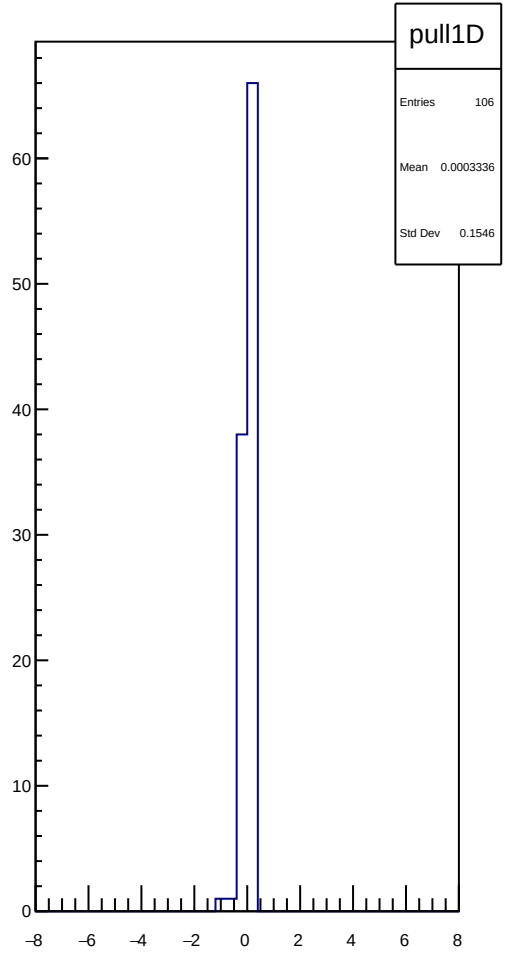

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 1.345 / 105
p0 −13.43 ± 1.523
10
0
−10
−20
−30
−40
pull
Entries 106
Mean 1161
Std Dev 0
0.2
0.1
0
−0.1
−0.2
pull1D
Entries 106
Mean −0.001904
Std Dev 0.1126
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

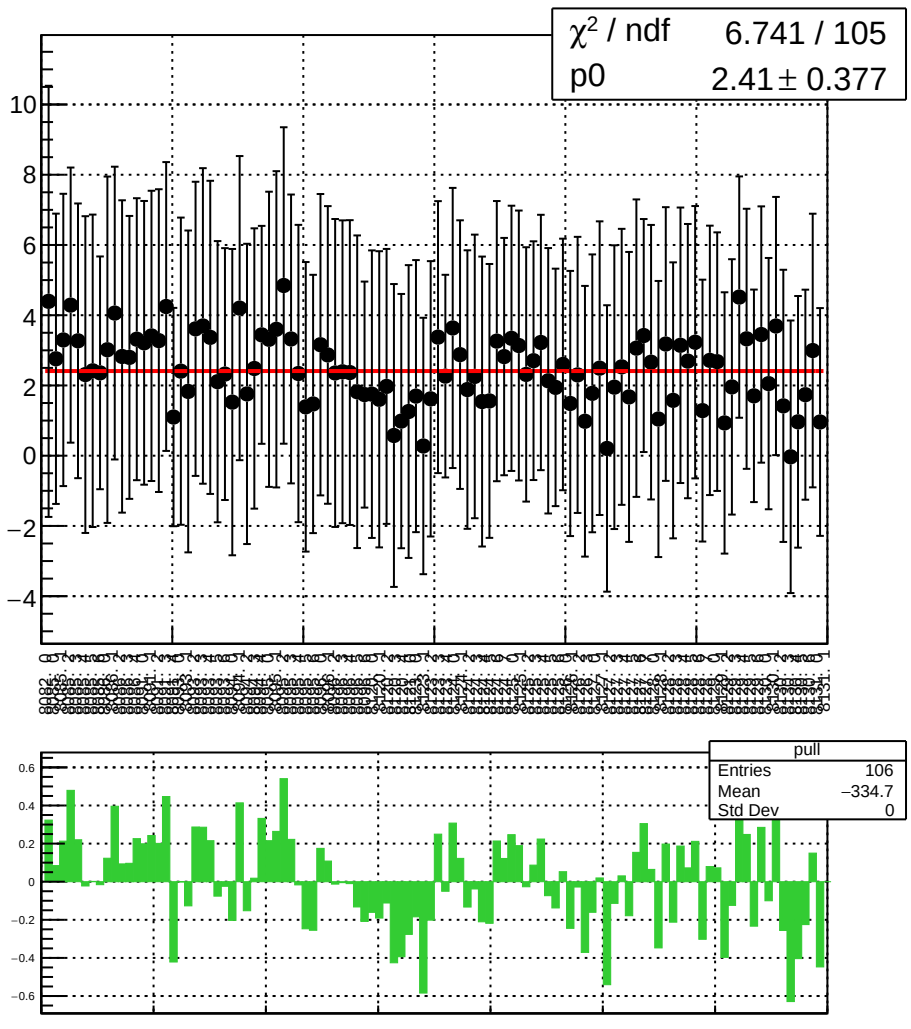

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 1.632 / 105
p0 45.27 ± 0.9851
pull
Entries 106
Mean 1186
Std Dev 0
pull1D
Entries 106
Mean −0.001612
Std Dev 0.1241

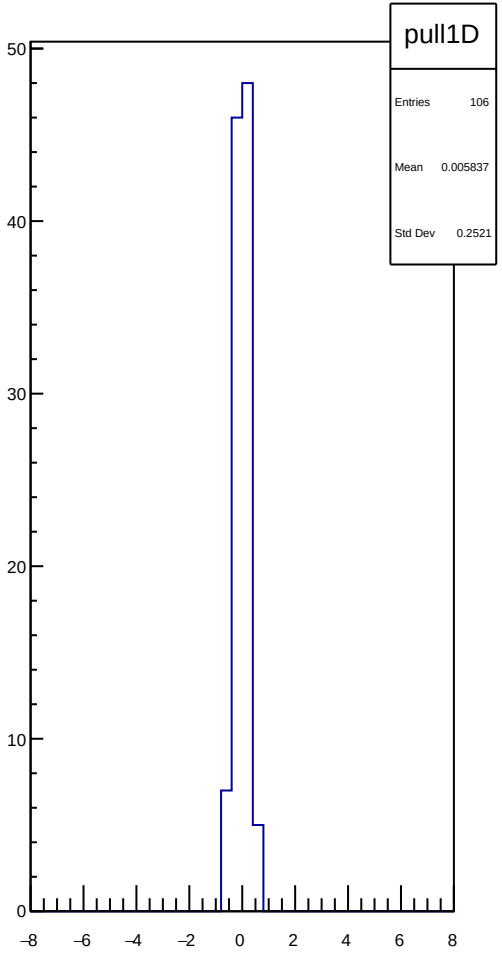

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 1.562 / 105
p0 −18.31 ± 1.627
pull
Entries 106
Mean 1847
Std Dev 0

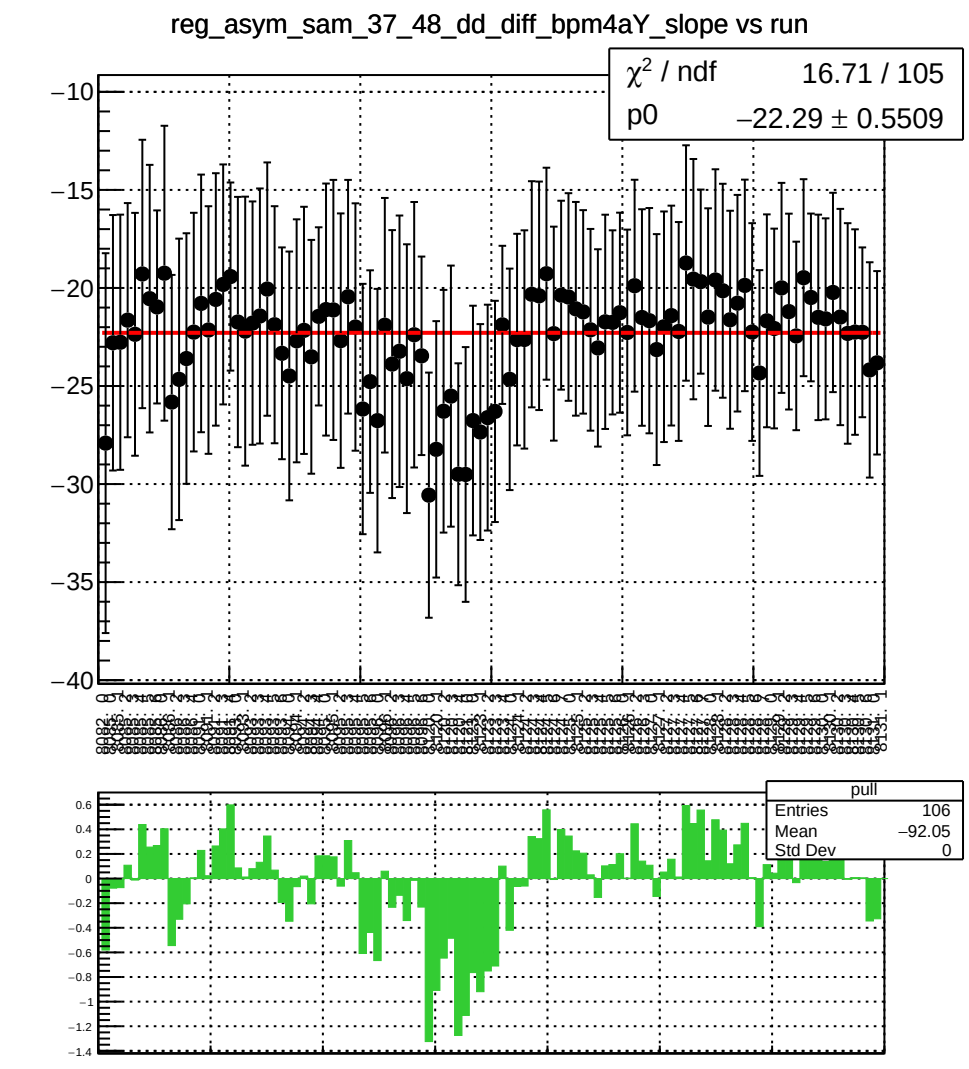

pull1D
Entries 106
Mean 0.001394
Std Dev 0.1214

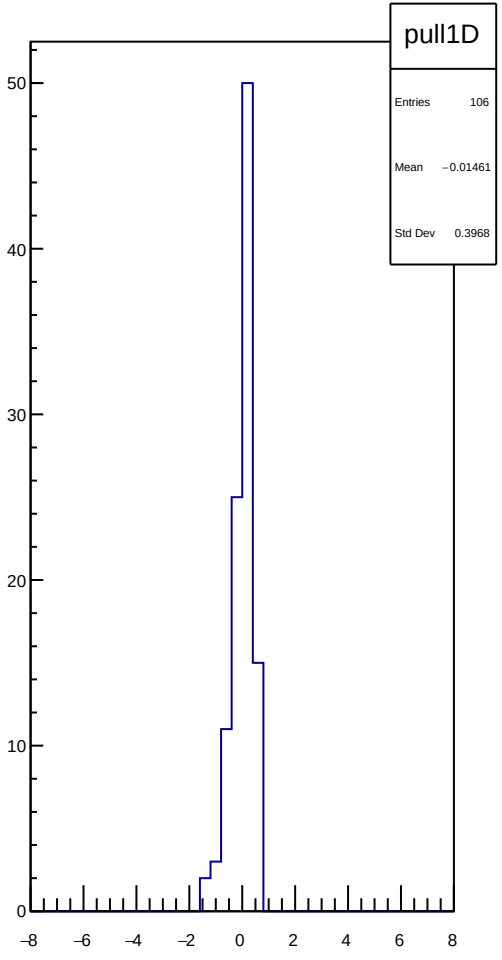

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 2.532 / 105
p0 0.4616 ± 0.06213
pull
Entries 106
Mean 5906
Std Dev 0

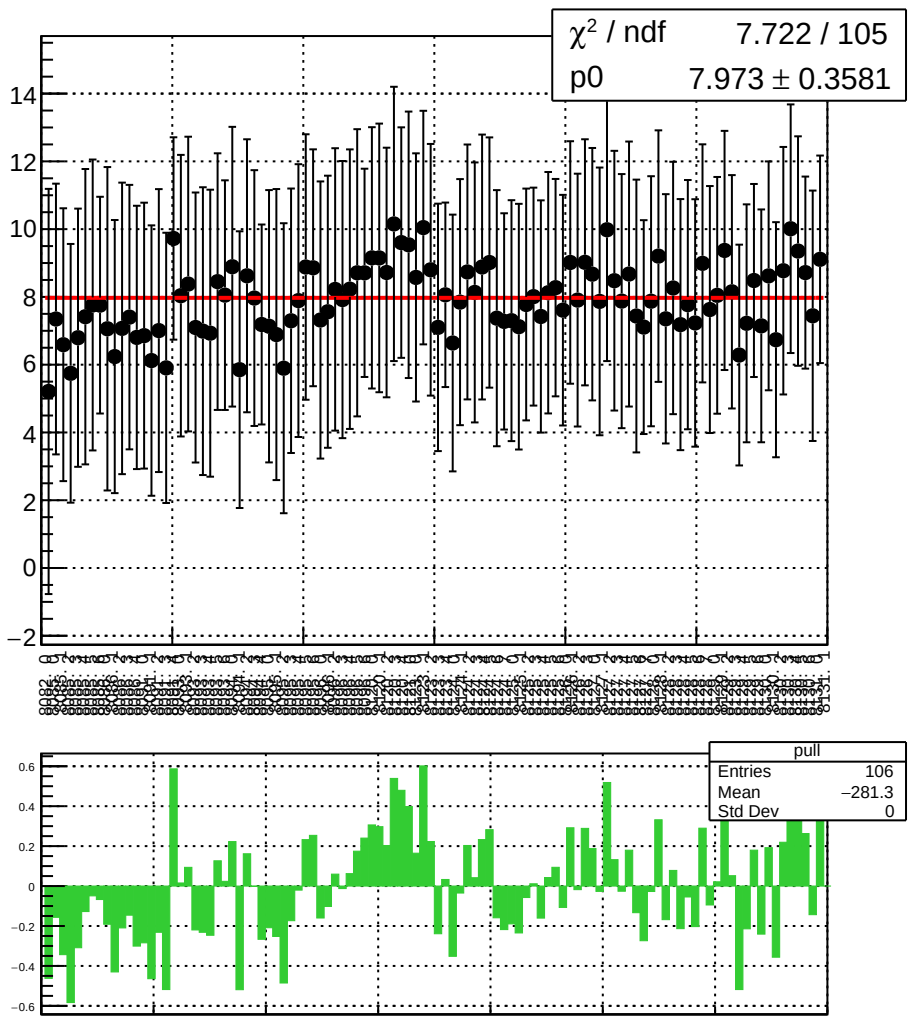

pull1D
Entries 106
Mean 0.0003336
Std Dev 0.1546

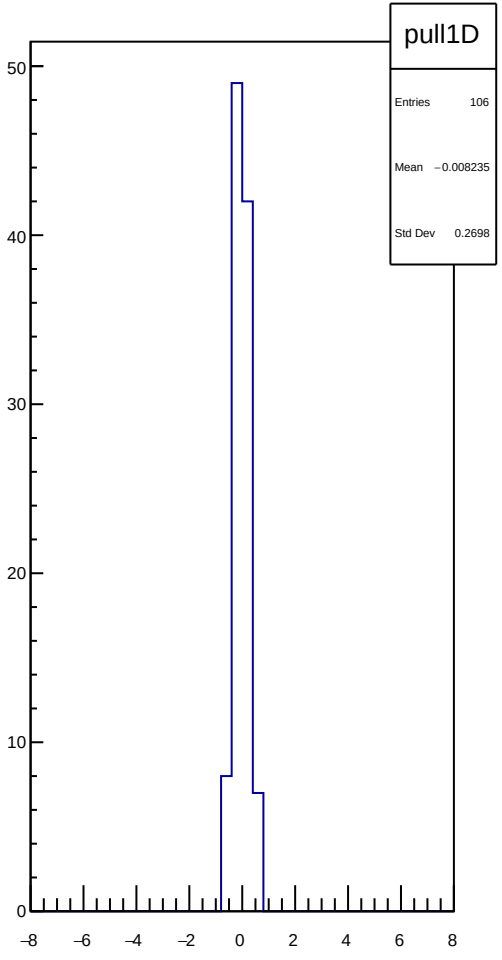

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 6.741 / 105
p0 2.41 ± 0.377
pull
Entries 106
Mean −334.7
Std Dev 0

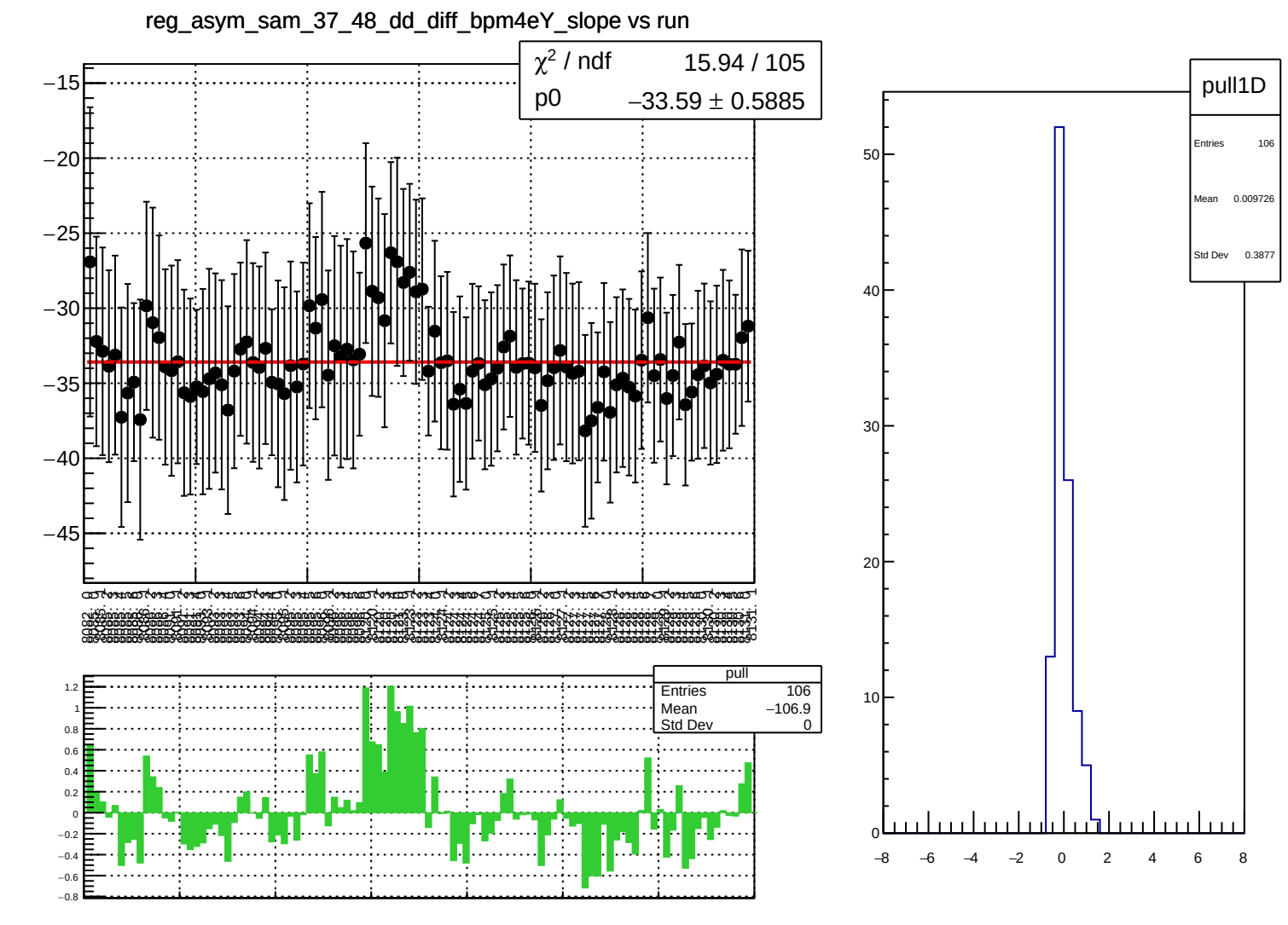

pull1D
Entries 106
Mean 0.005837
Std Dev 0.2521

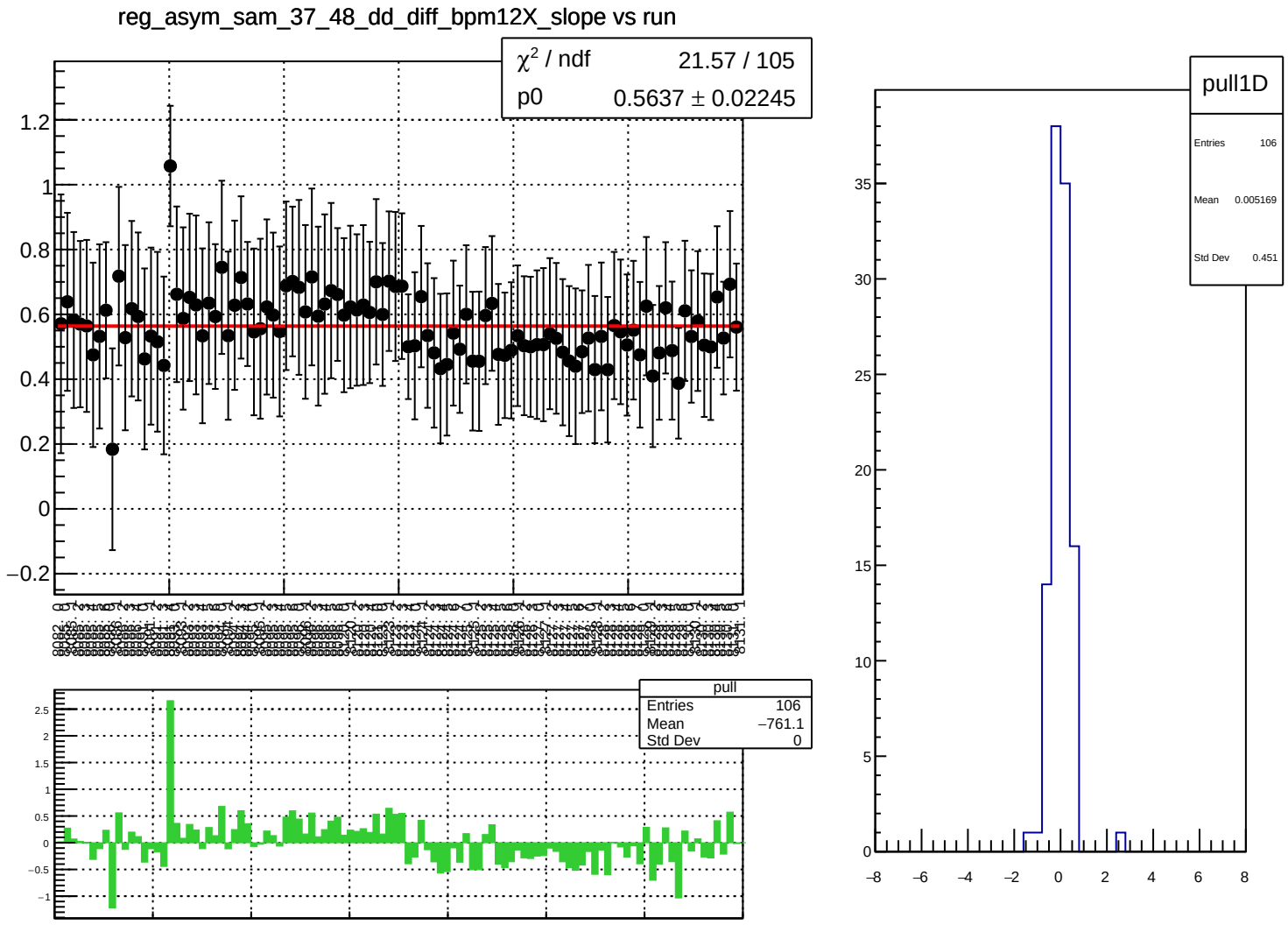

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 16.71 / 105
p0 −22.29 ± 0.5509
pull
Entries 106
Mean −92.05
Std Dev 0

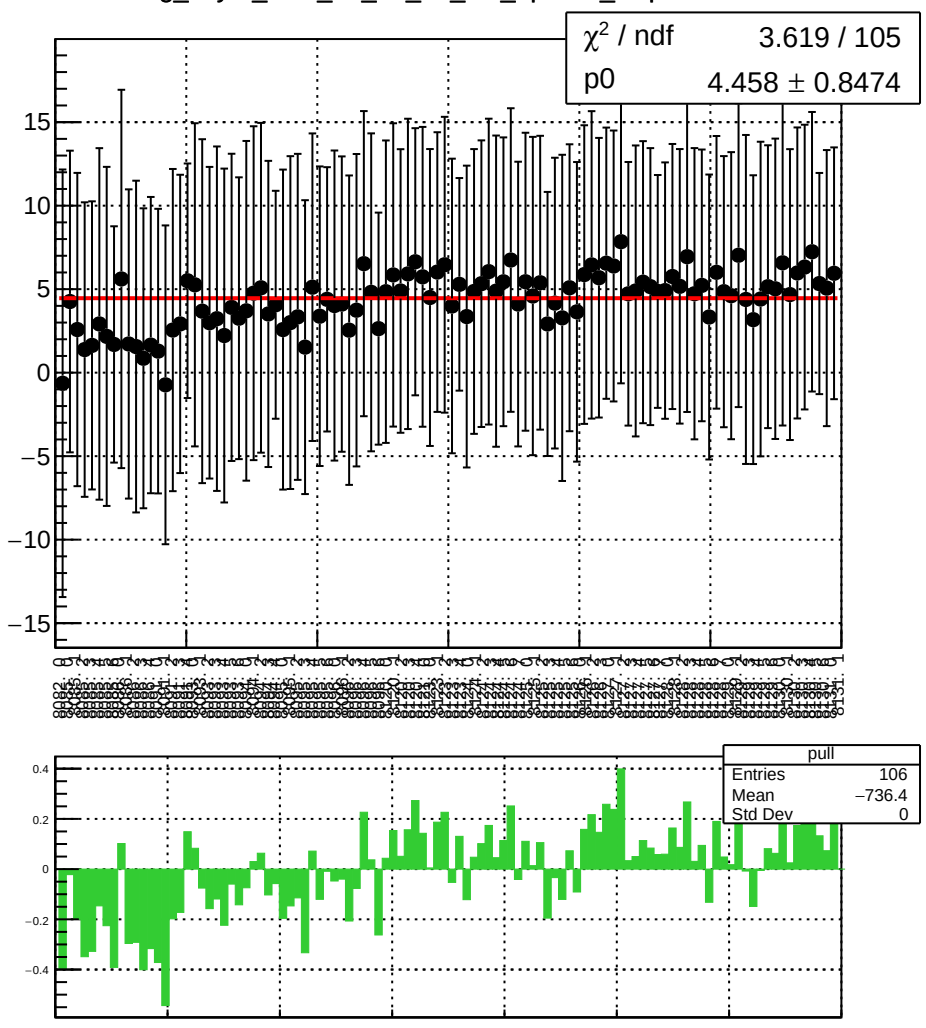

pull1D
Entries 106
Mean −0.01461
Std Dev 0.3968

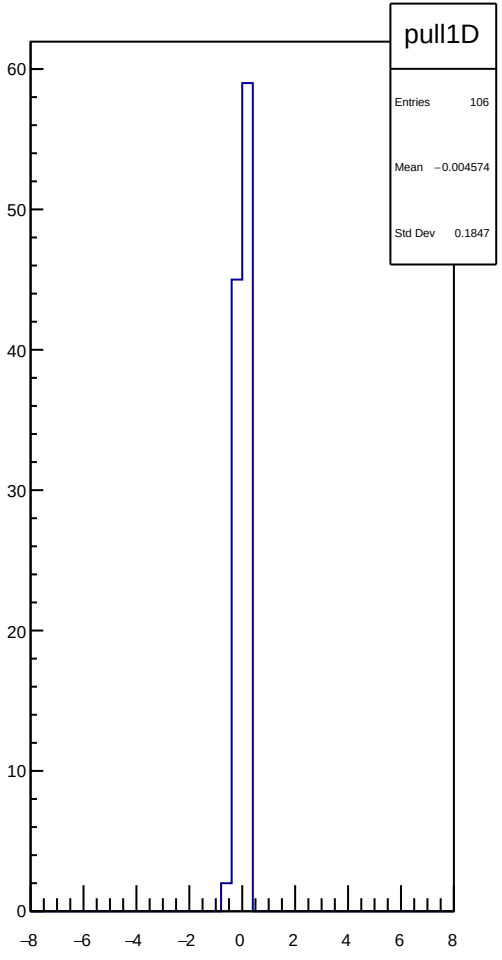

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.722 / 105
p0 7.973 ± 0.3581
pull
Entries 106
Mean −281.3
Std Dev 0

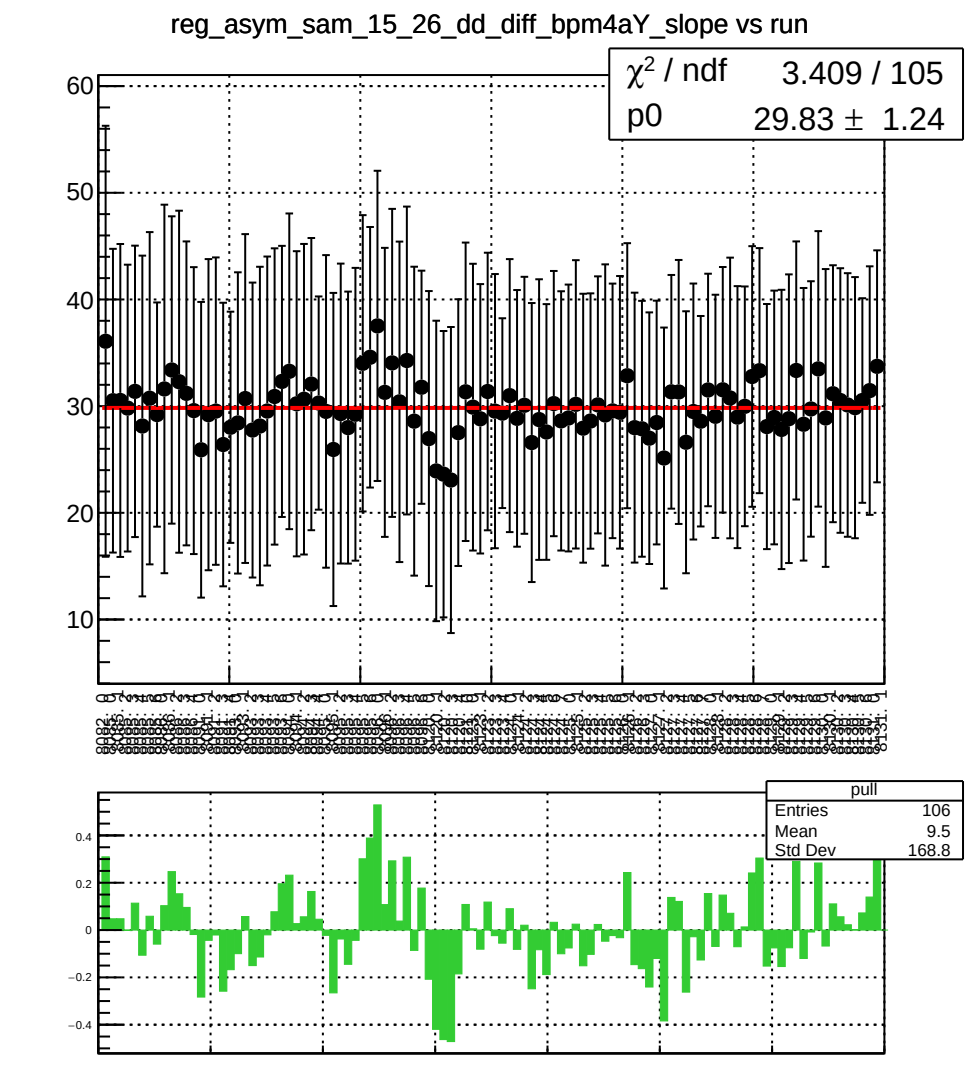

pull1D
Entries 106
Mean −0.008235
Std Dev 0.2698

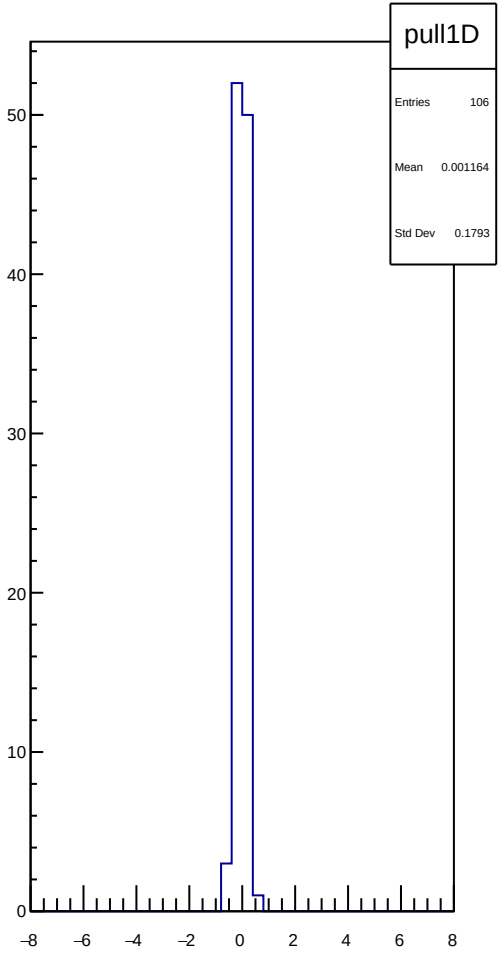

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 15.94 / 105
p0 −33.59 ± 0.5885
pull
Entries 106
Mean −106.9
Std Dev 0
pull1D
Entries 106
Mean 0.009726
Std Dev 0.3877

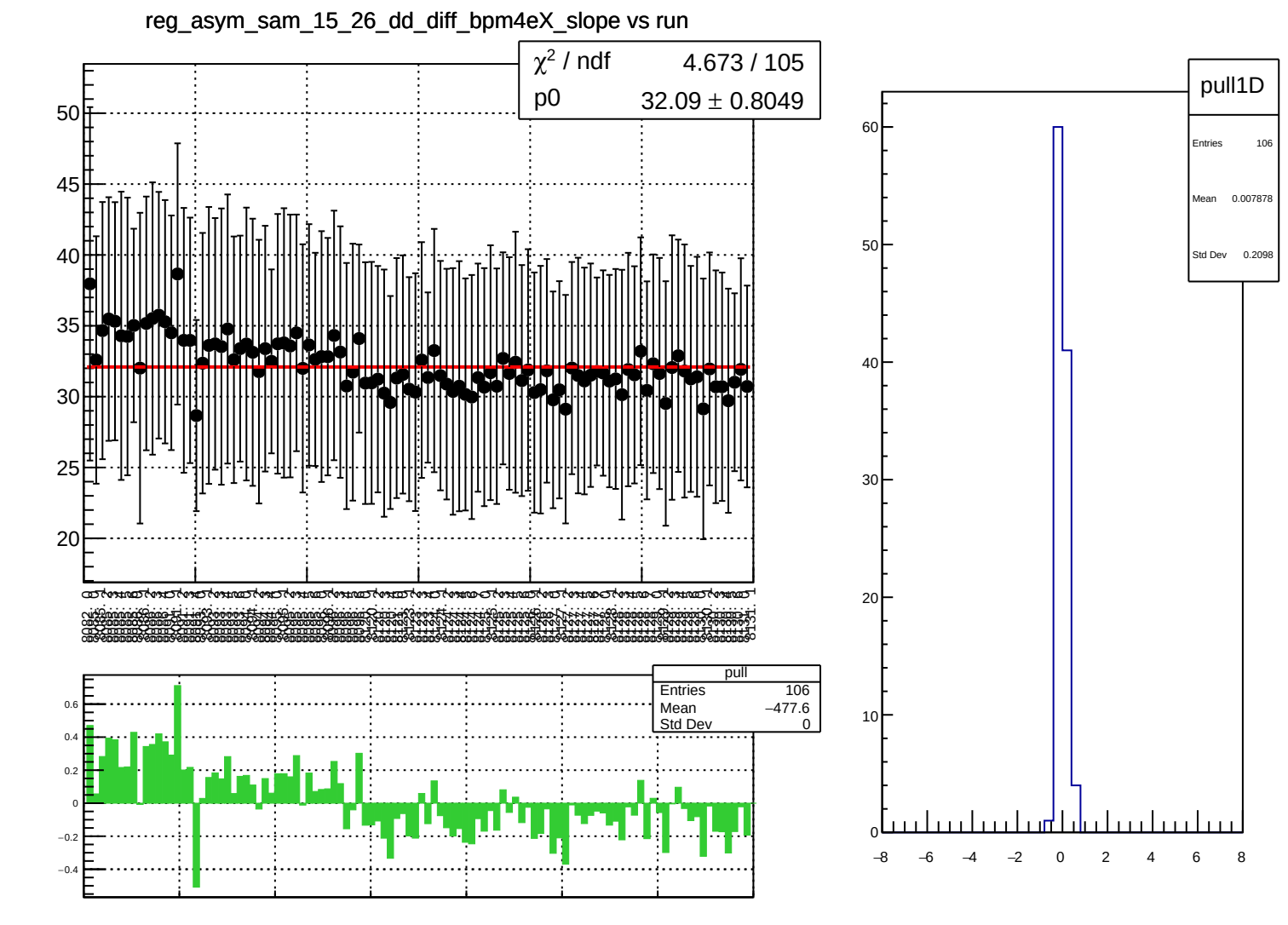

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 21.57 / 105
p0 0.5637 ± 0.02245
pull
Entries 106
Mean −761.1
Std Dev 0
pull1D
Entries 106
Mean 0.005169
Std Dev 0.451

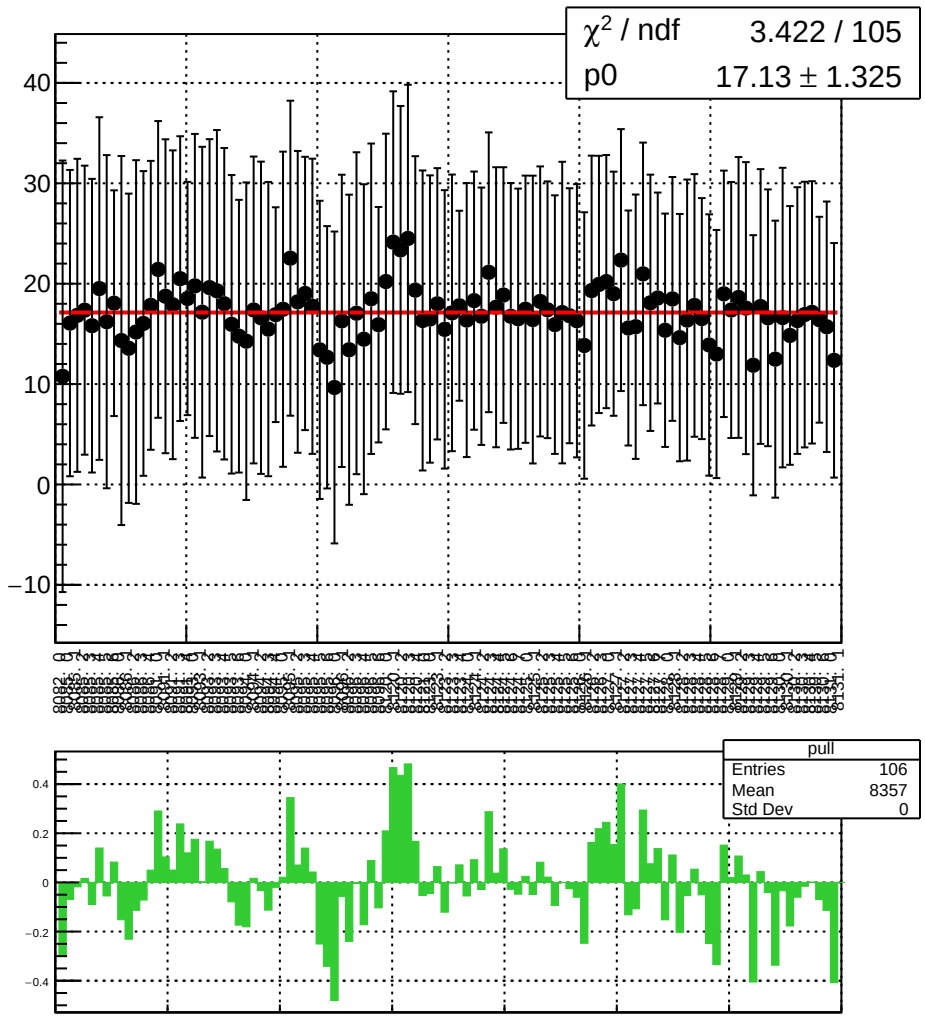

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 3.619 / 105
p0 4.458 ± 0.8474
pull
Entries 106
Mean −736.4
Std Dev 0

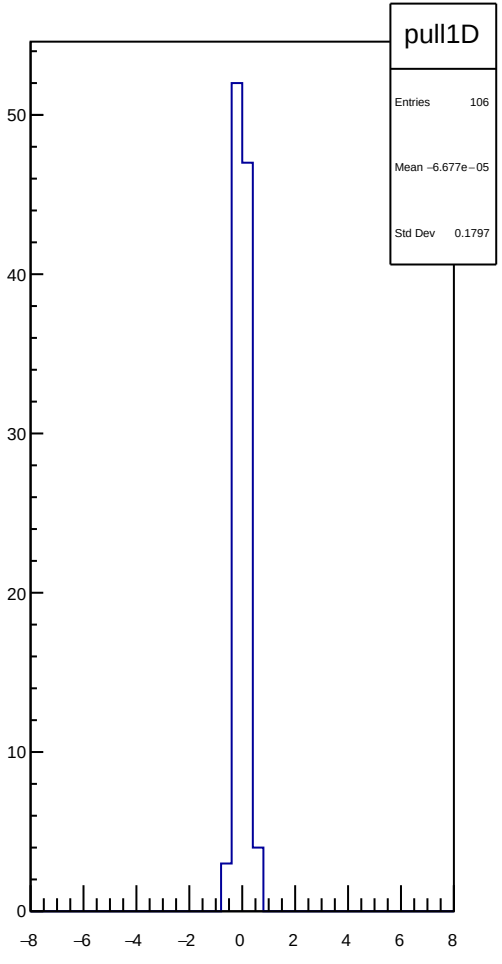

pull1D
Entries 106
Mean −0.004574
Std Dev 0.1847

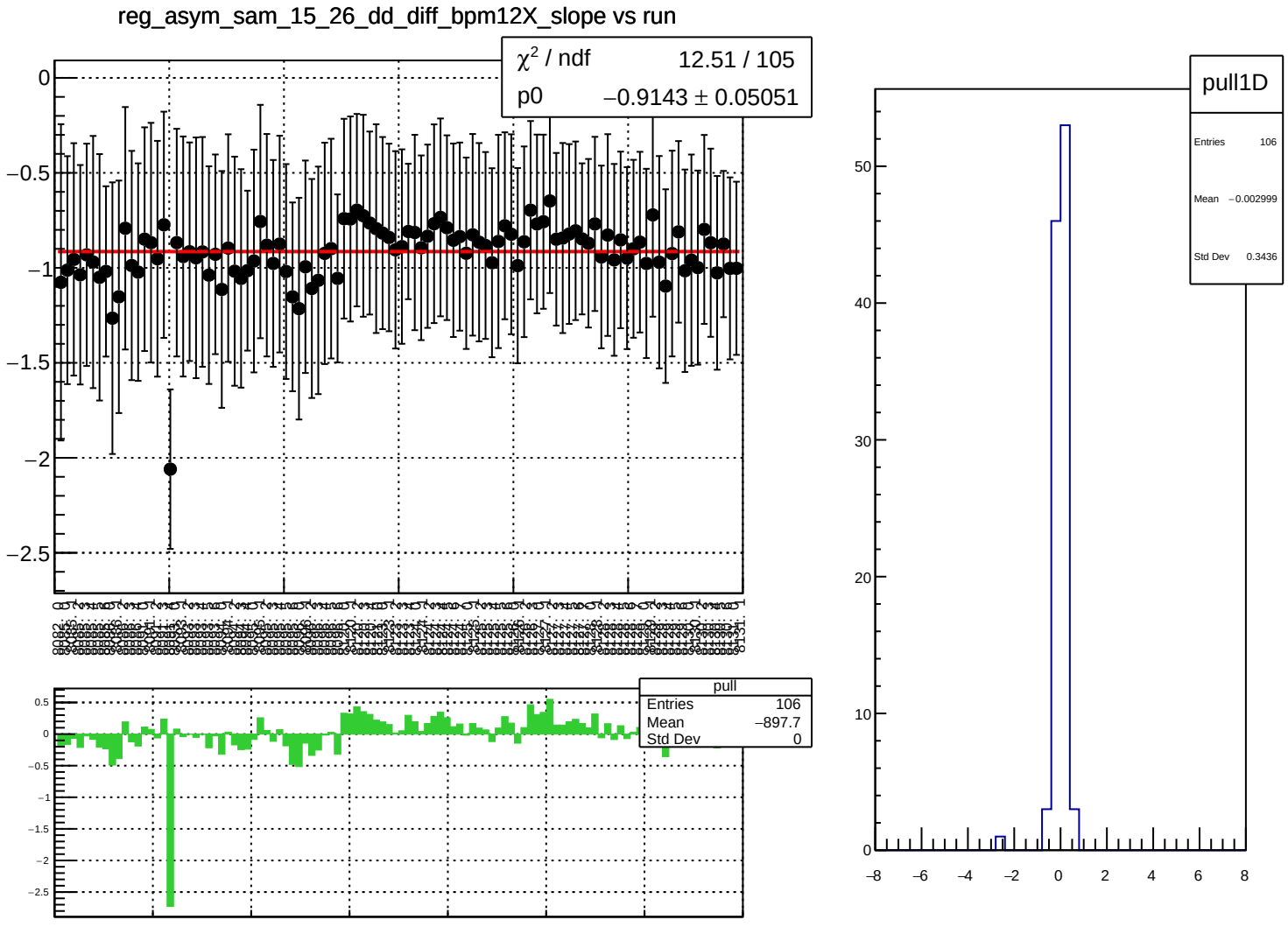

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.409 / 105
p0 29.83 ± 1.24
pull
Entries 106
Mean 9.5
Std Dev 168.8

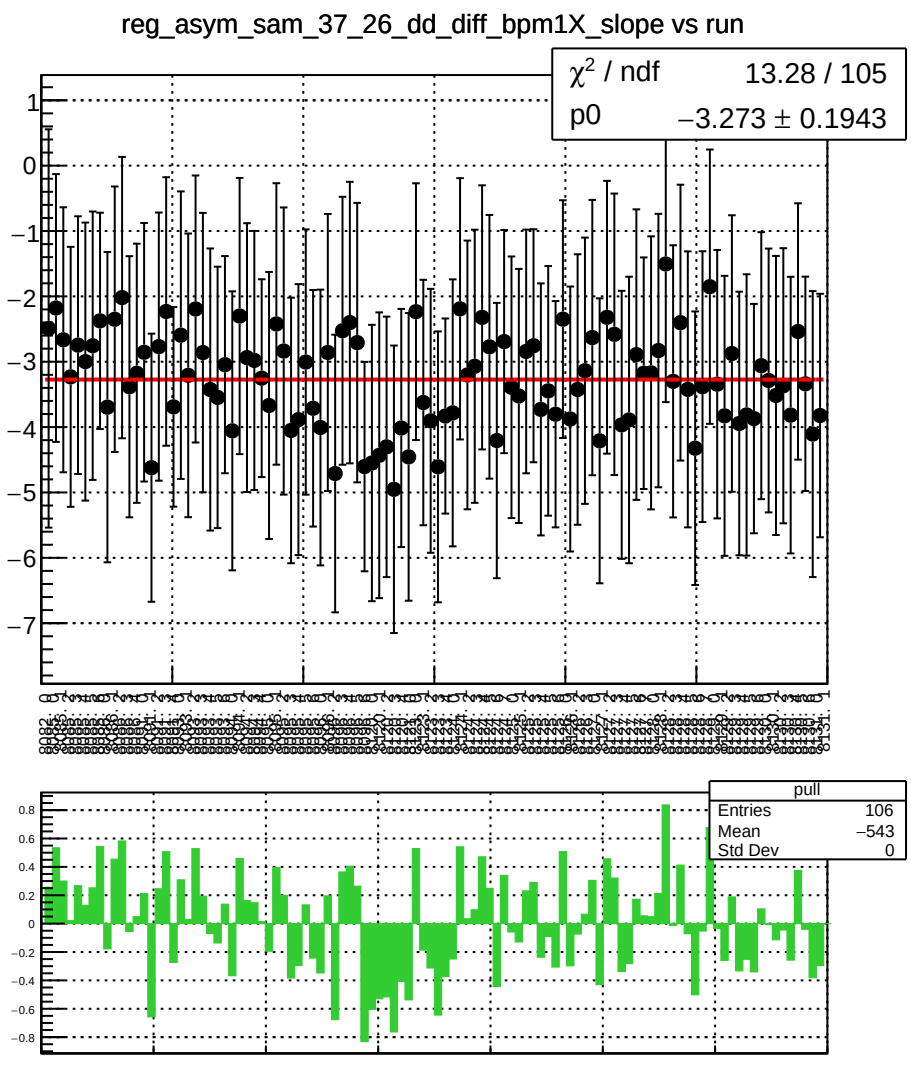

pull1D
Entries 106
Mean 0.001164
Std Dev 0.1793

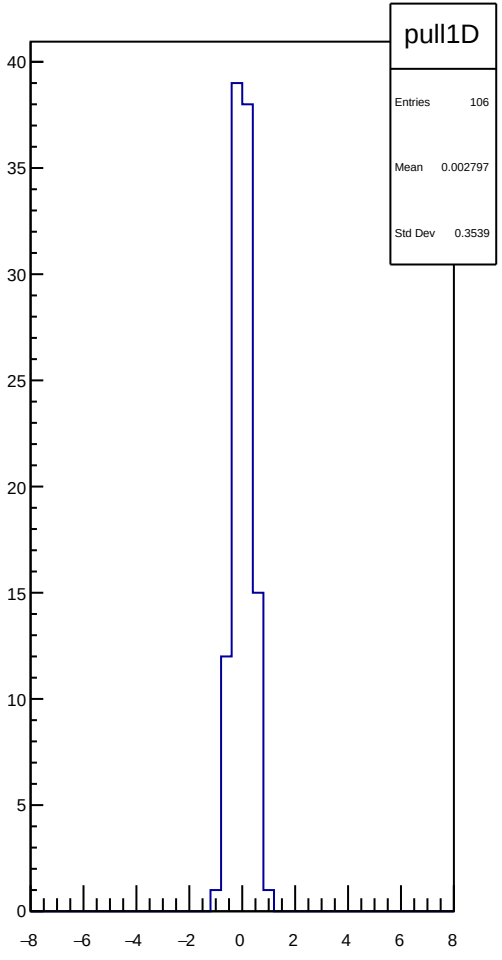

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.673 / 105
p0 32.09 ± 0.8049
pull
Entries 106
Mean −477.6
Std Dev 0
pull1D
Entries 106
Mean 0.007878
Std Dev 0.2098

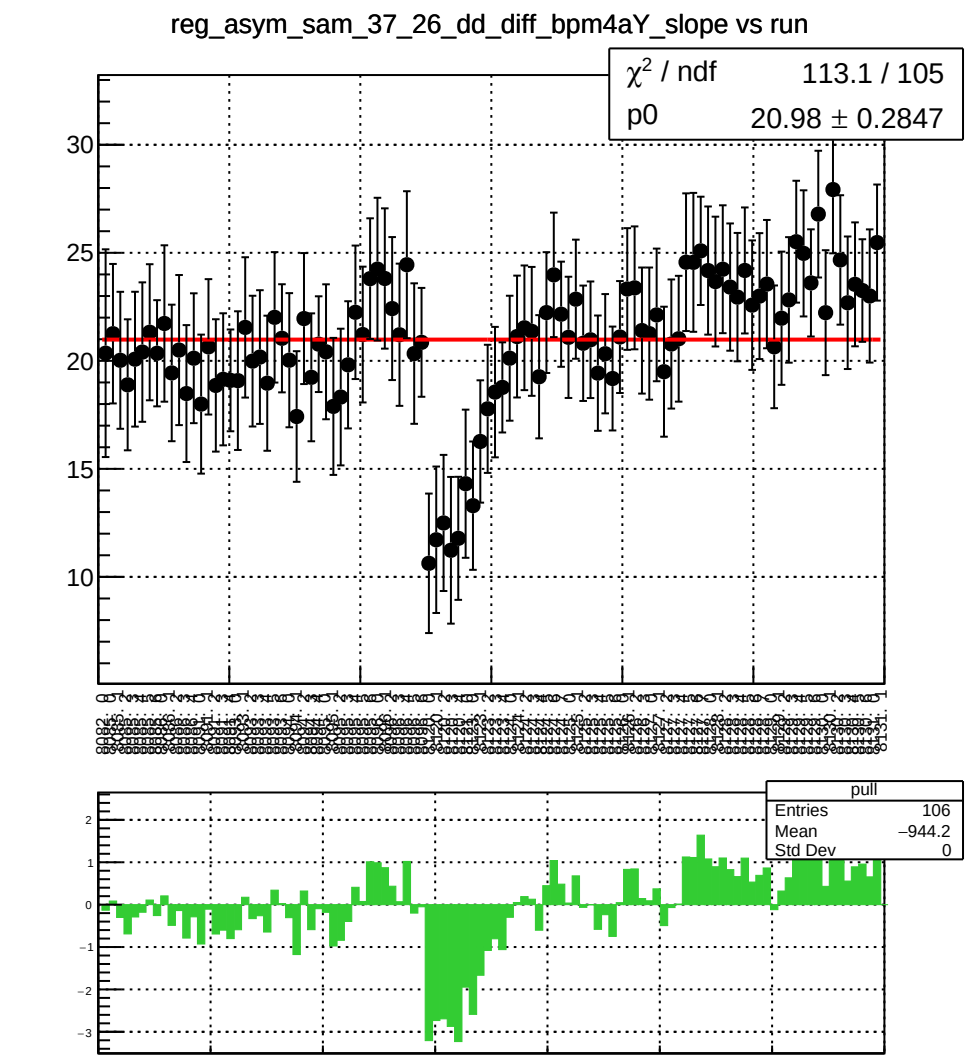

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.422 / 105
p0 17.13 ± 1.325
pull
Entries 106
Mean 8357
Std Dev 0

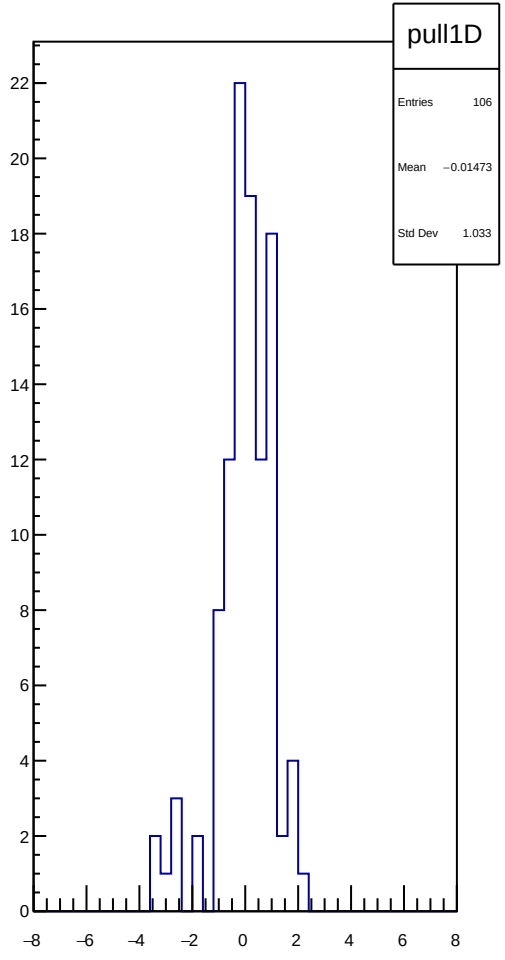

pull1D
Entries 106
Mean −6.677e−05
Std Dev 0.1797

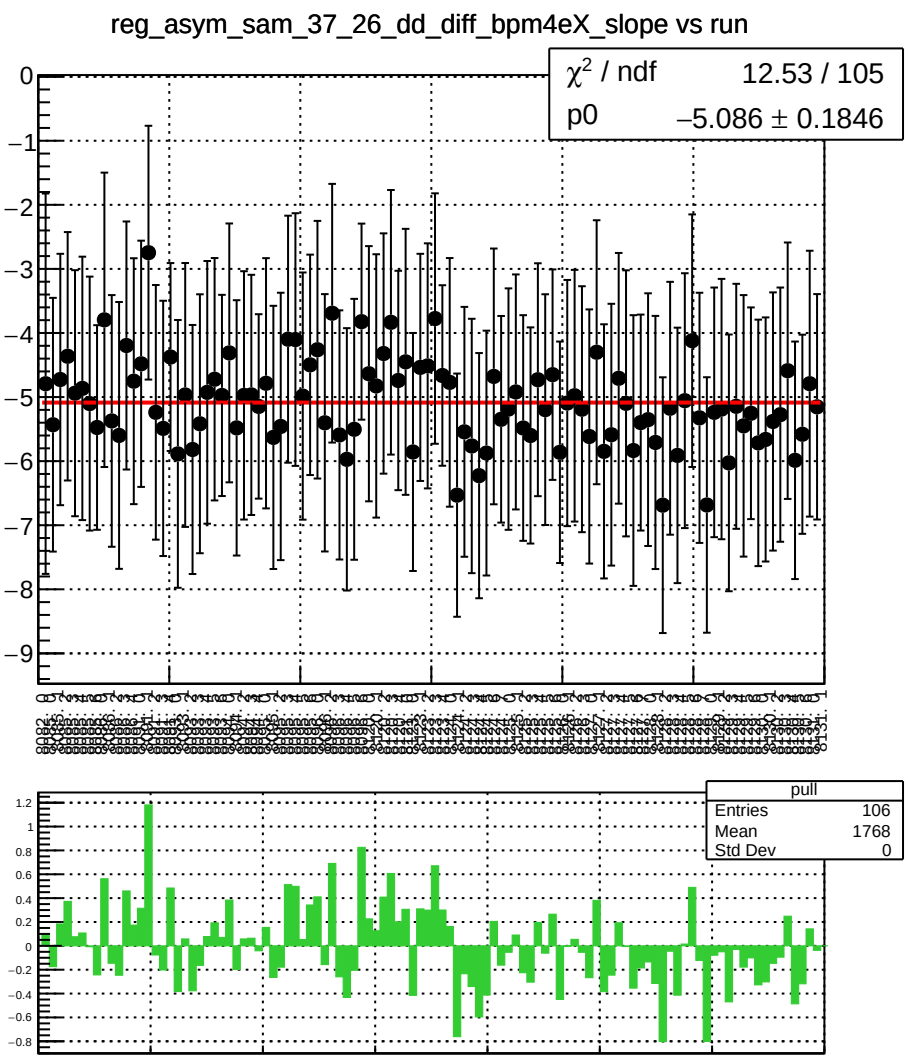

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 12.51 / 105
p0 −0.9143 ± 0.05051
pull
Entries 106
Mean −897.7
Std Dev 0
pull1D
Entries 106
Mean −0.002999
Std Dev 0.3436

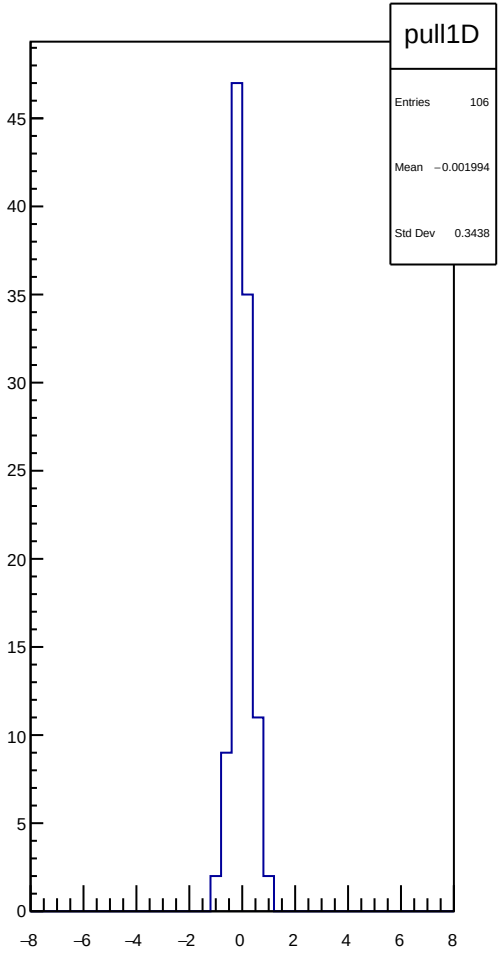

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 13.28 / 105
p0 −3.273 ± 0.1943
pull
Entries 106
Mean −543
Std Dev 0

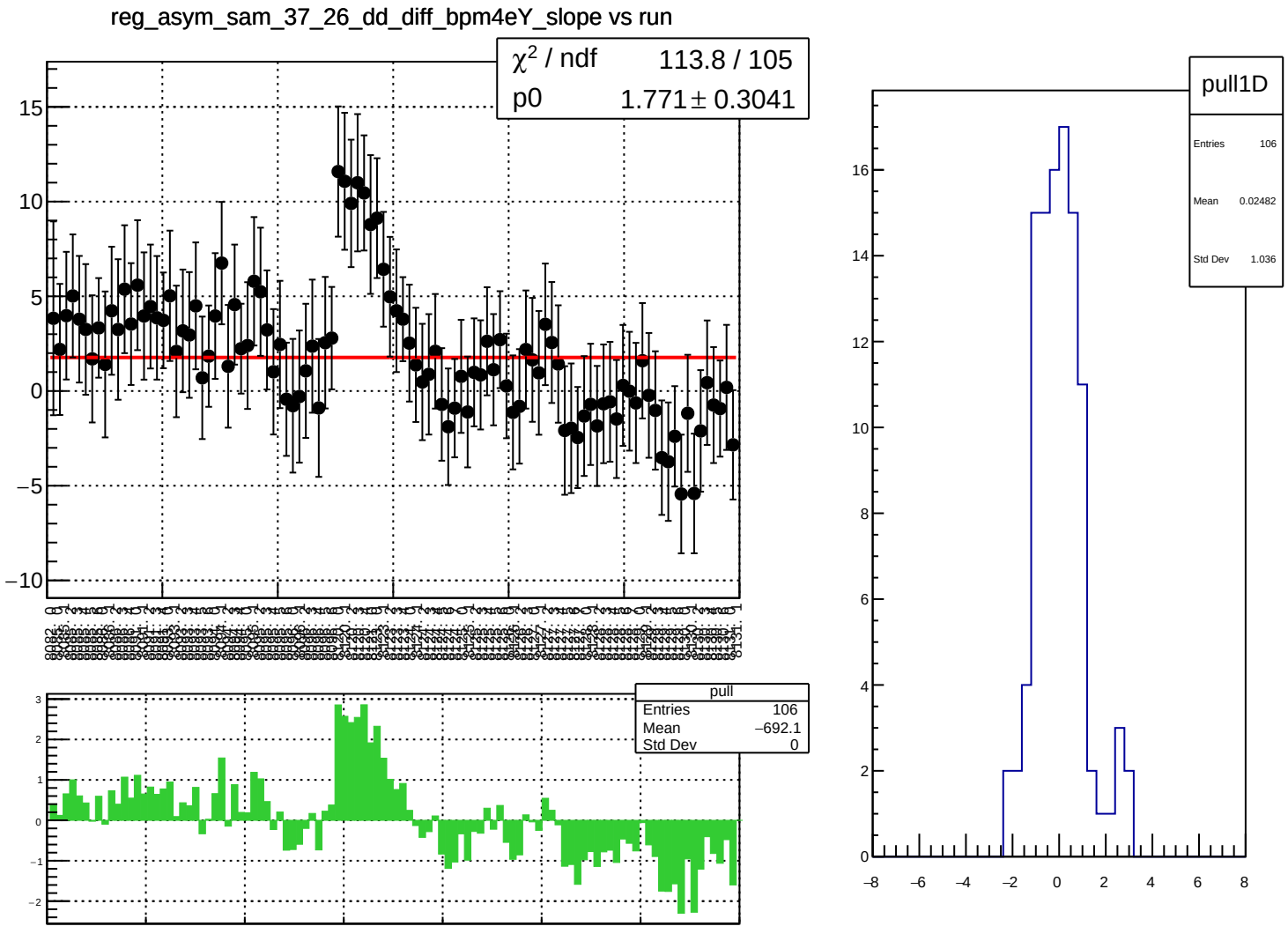

pull1D
Entries 106
Mean 0.002797
Std Dev 0.3539

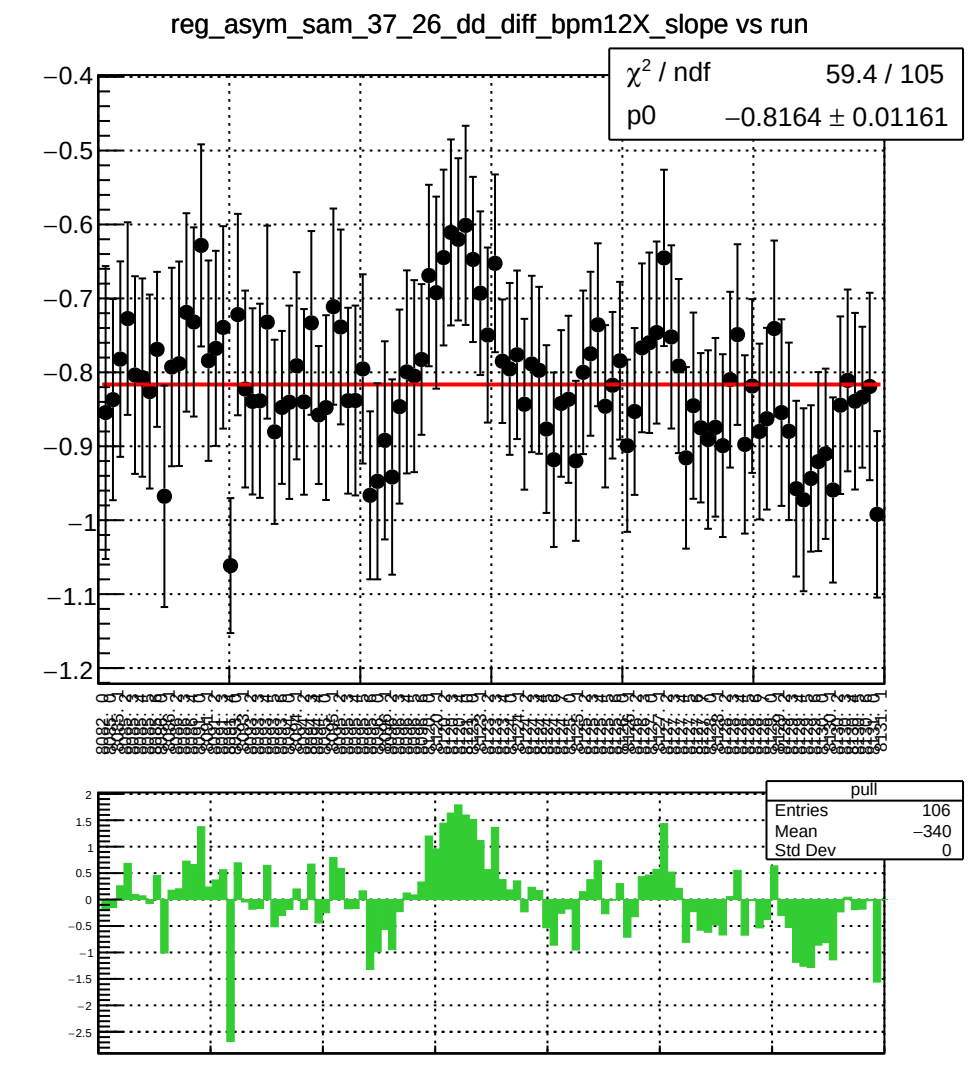

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 113.1 / 105
p0 20.98 ± 0.2847
30
25
20
15
10
pull
Entries 106
Mean −944.2
Std Dev 0
2
1
0
−1
−2
−3

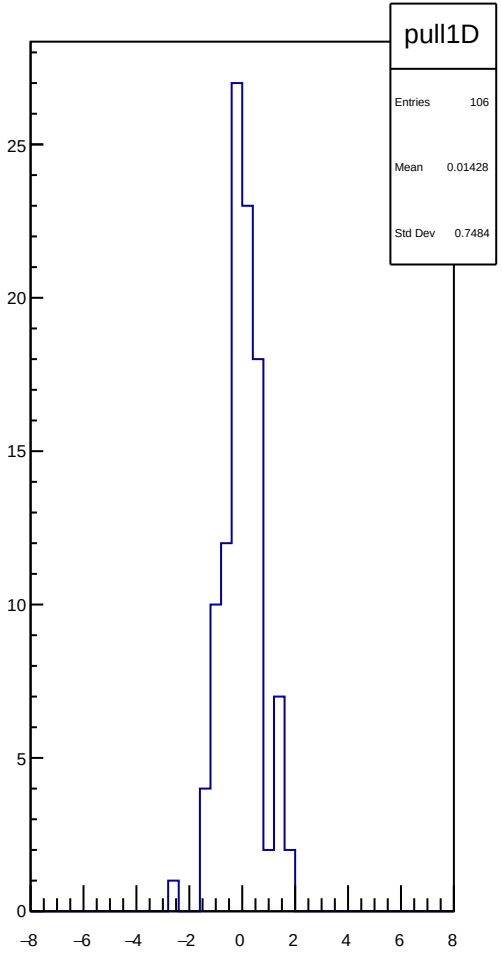

pull1D
Entries 106
Mean −0.01473
Std Dev 1.033
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

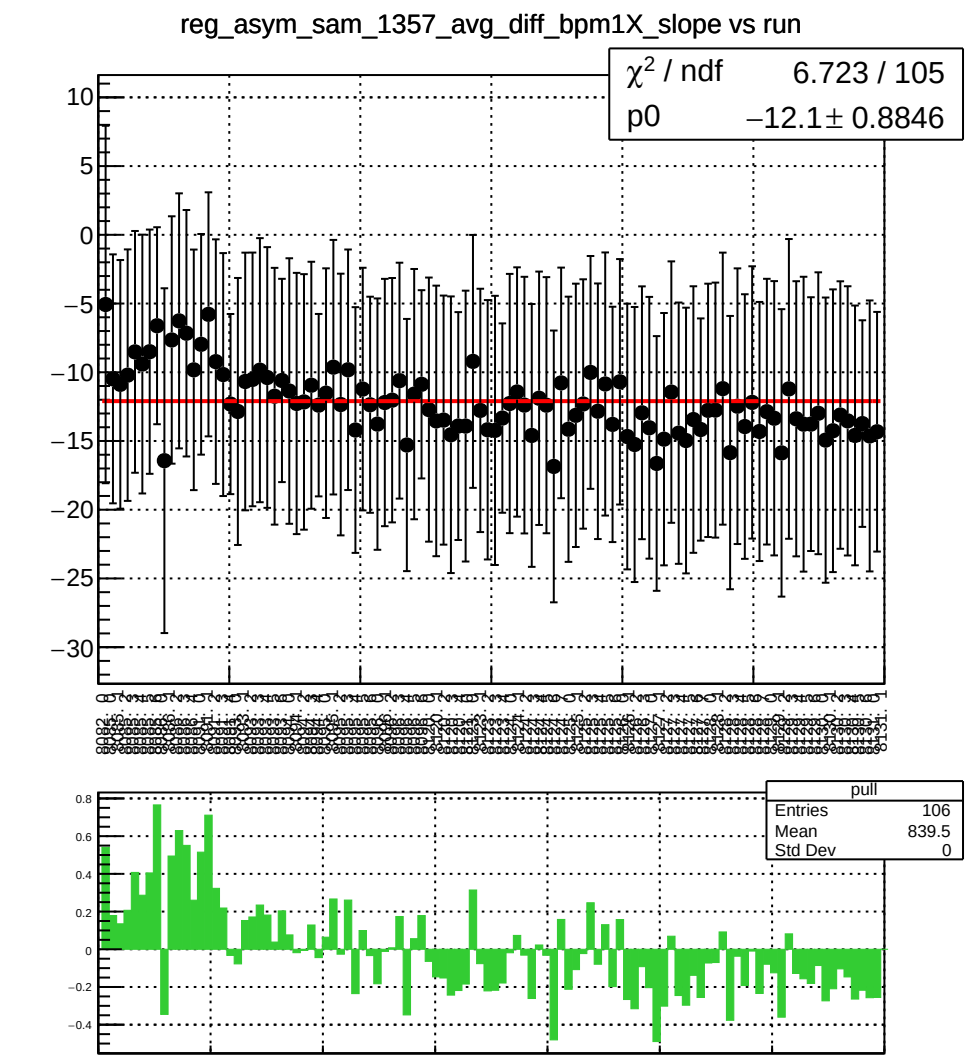

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 12.53 / 105
p0 −5.086 ± 0.1846
pull
Entries 106
Mean 1768
Std Dev 0

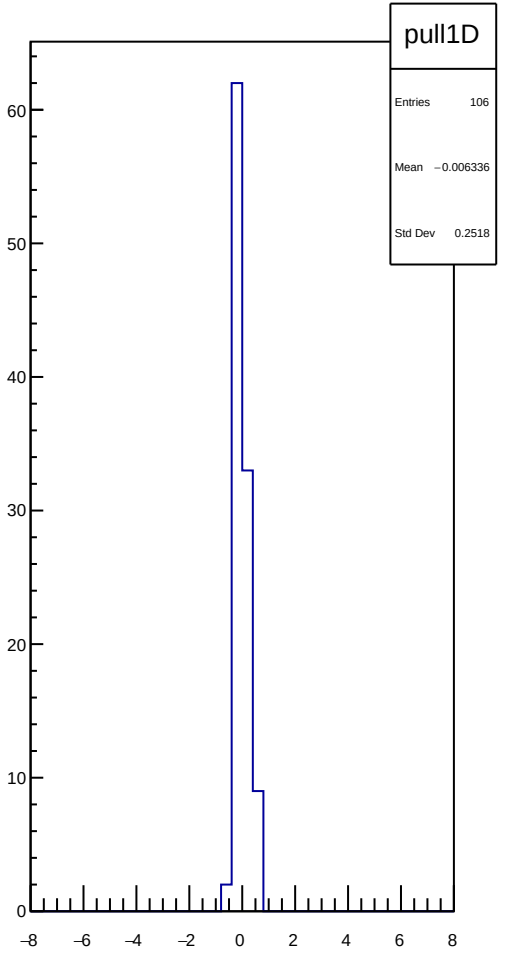

pull1D
Entries 106
Mean −0.001994
Std Dev 0.3438

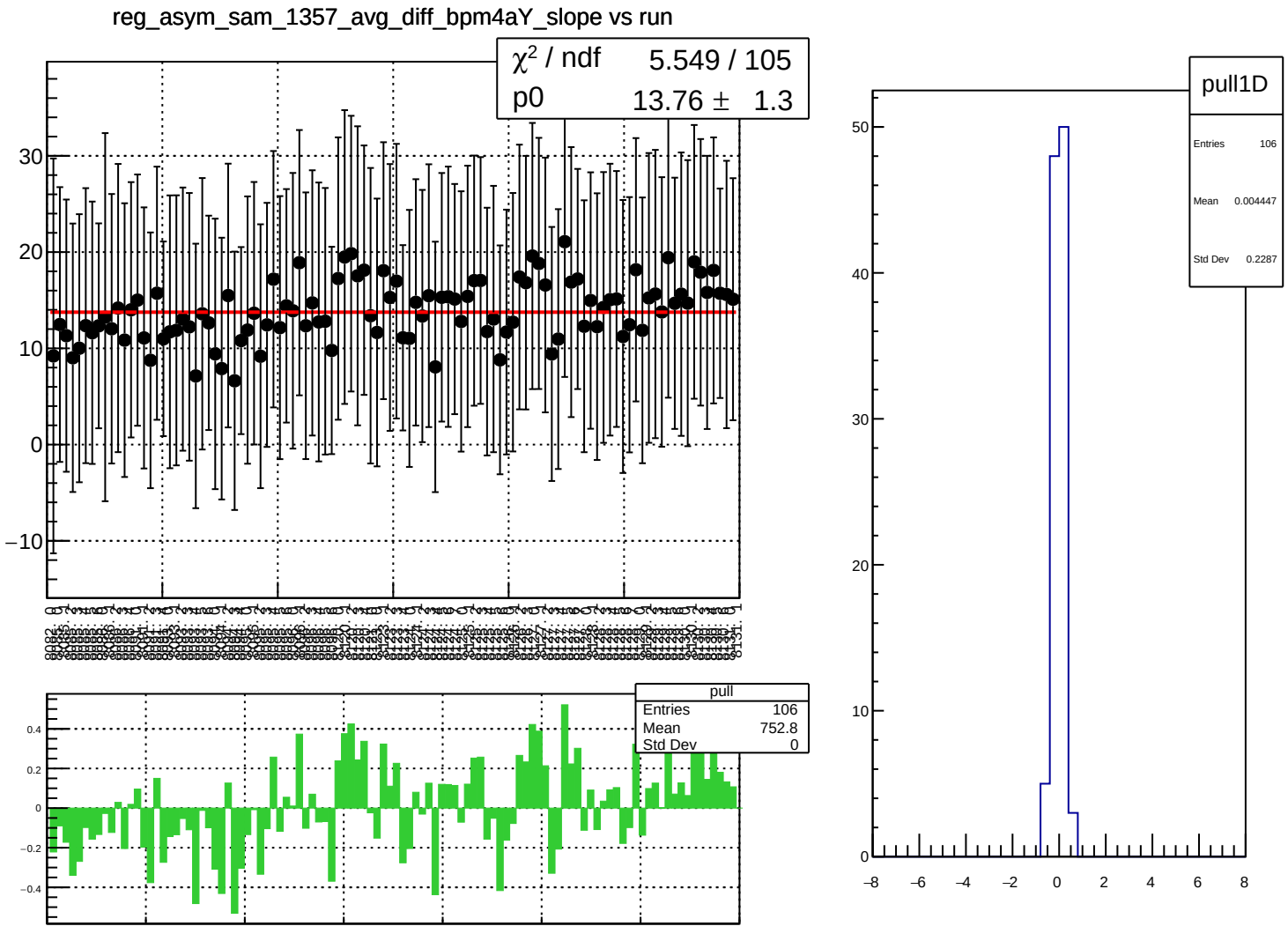

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 113.8 / 105
p0 1.771 ± 0.3041
pull
Entries 106
Mean −692.1
Std Dev 0
pull1D
Entries 106
Mean 0.02482
Std Dev 1.036

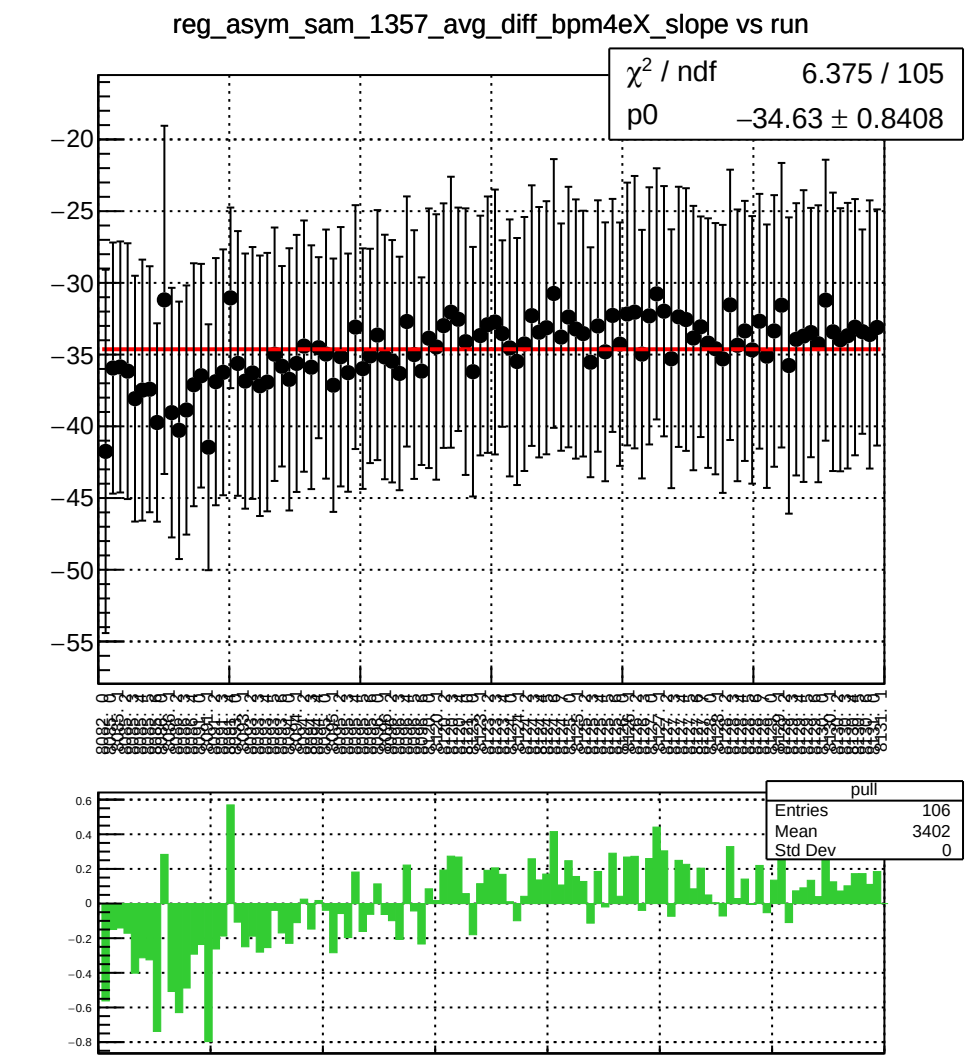

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 59.4 / 105
p0 −0.8164 ± 0.01161
pull
Entries 106
Mean −340
Std Dev 0

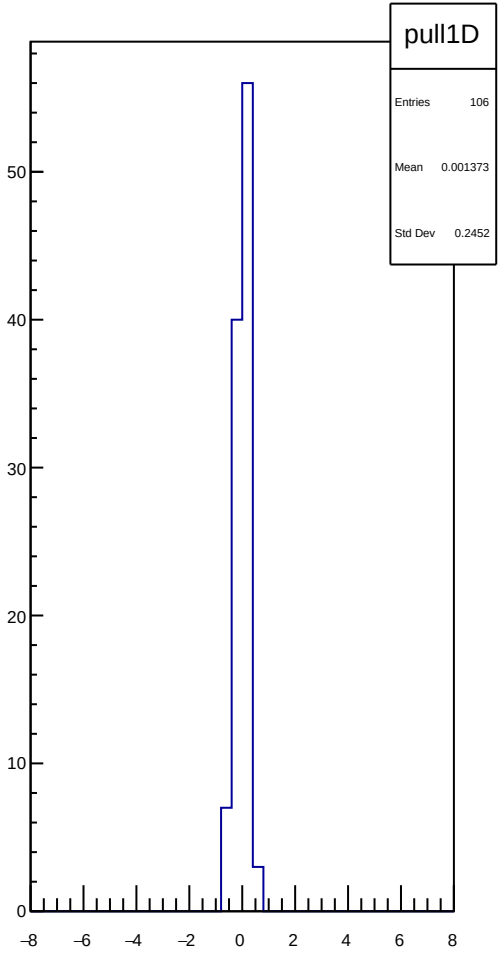

pull1D
Entries 106
Mean 0.01428
Std Dev 0.7484

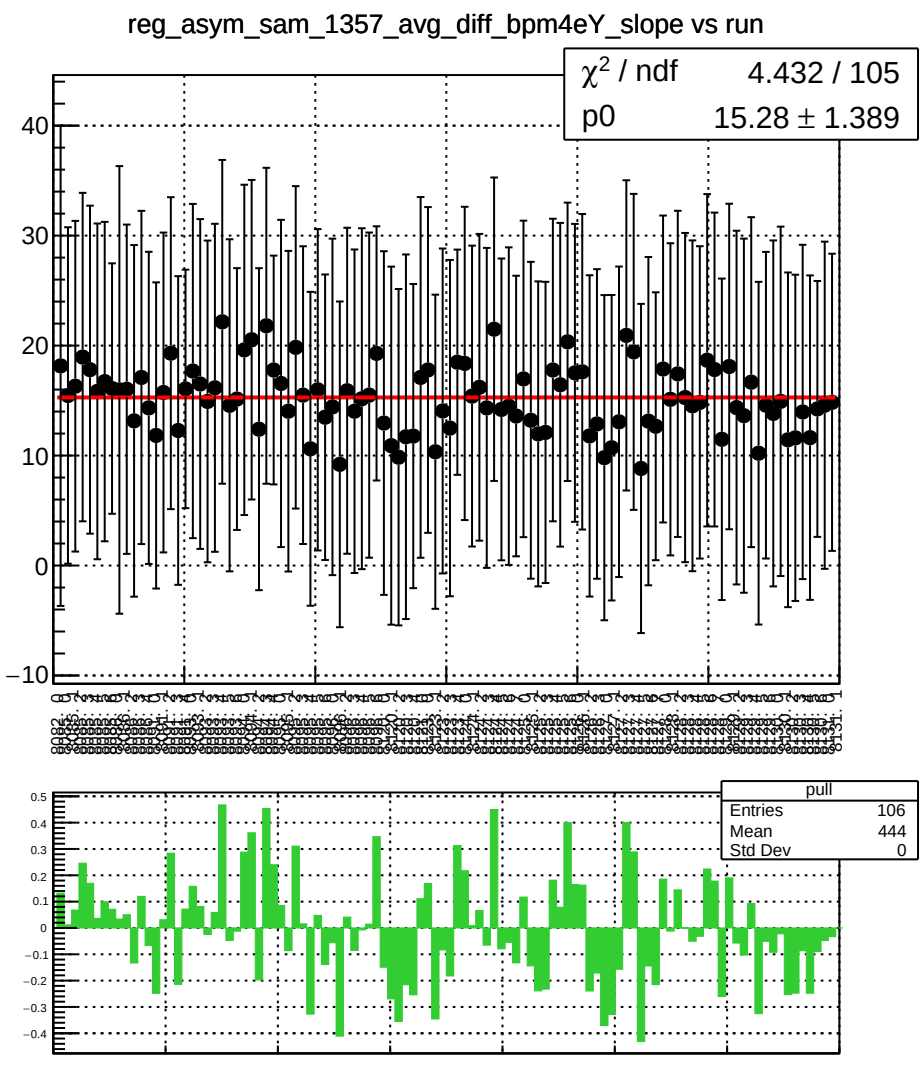

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 6.723 / 105
p0 −12.1 ± 0.8846
pull
Entries 106
Mean 839.5
Std Dev 0

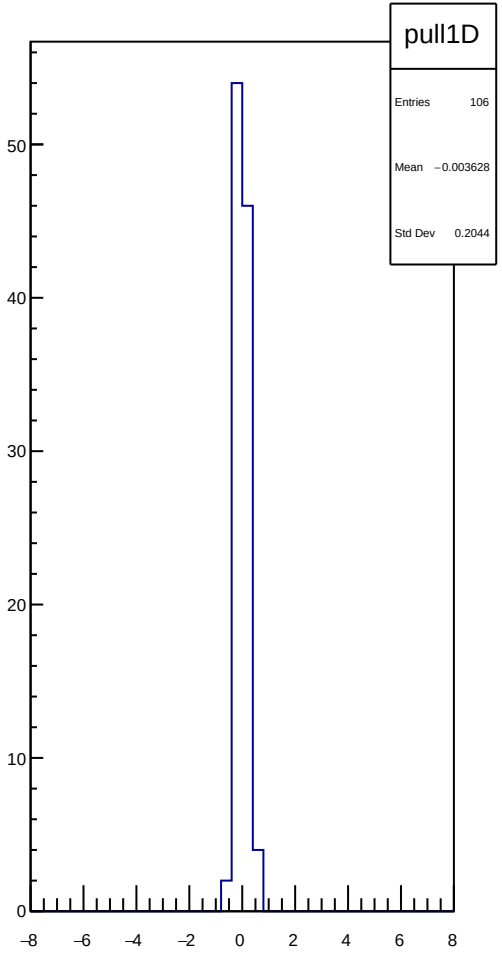

pull1D
Entries 106
Mean −0.006336
Std Dev 0.2518

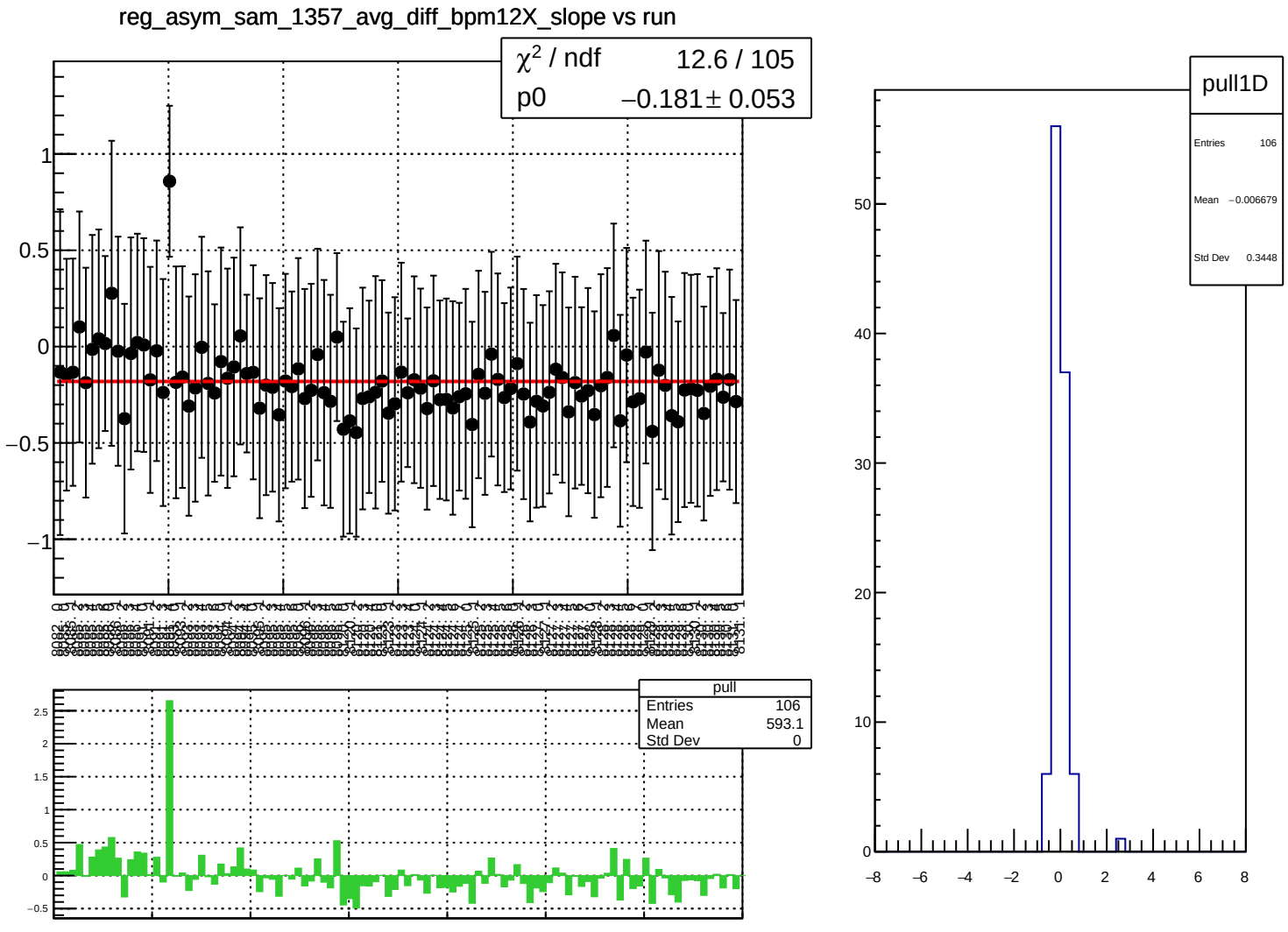

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.549 / 105
p0 13.76 ± 1.3
30
20
10
0
−10
pull
Entries 106
Mean 752.8
Std Dev 0
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 106
Mean 0.004447
Std Dev 0.2287
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

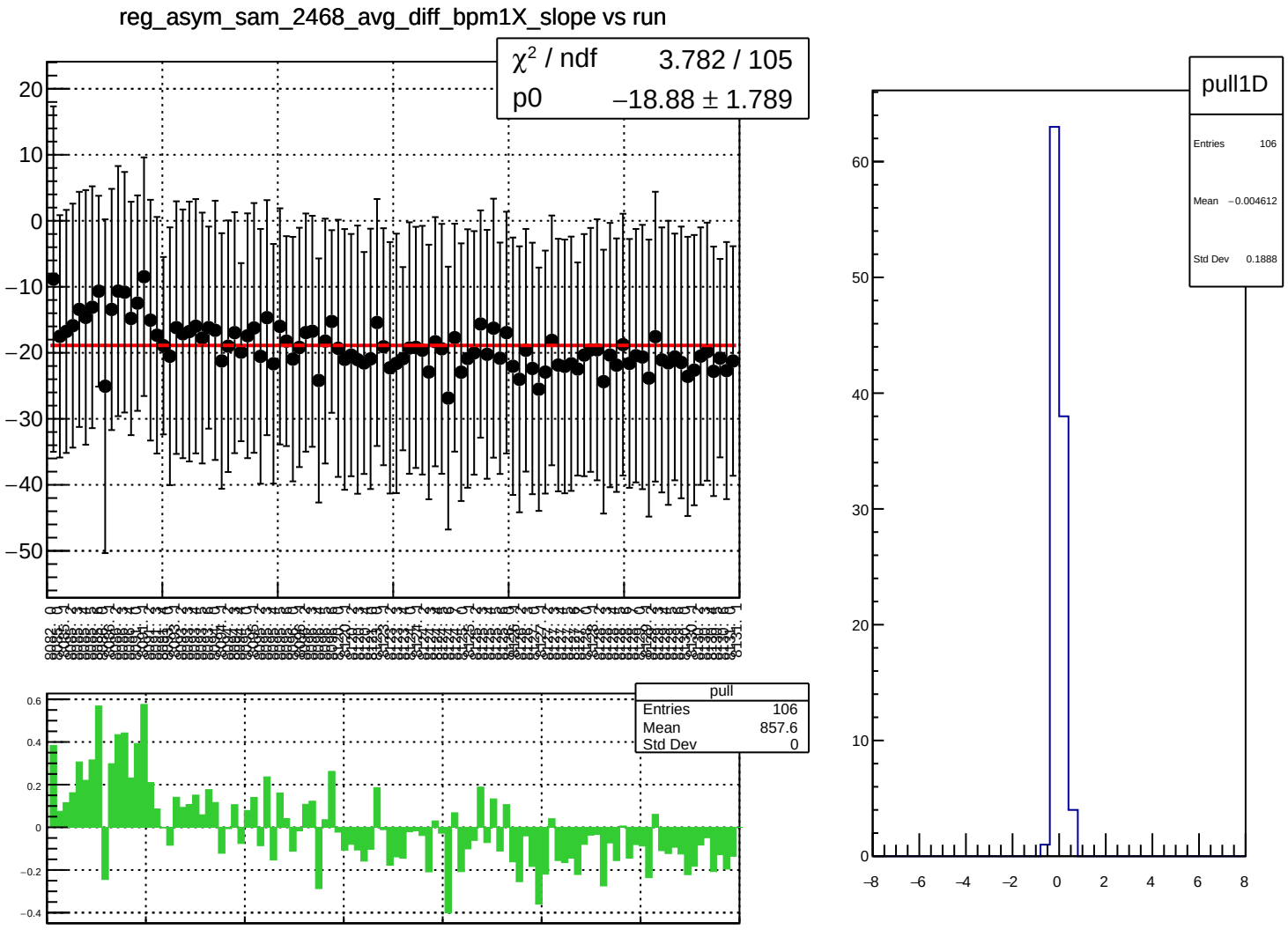

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.375 / 105
p0 −34.63 ± 0.8408
pull
Entries 106
Mean 3402
Std Dev 0

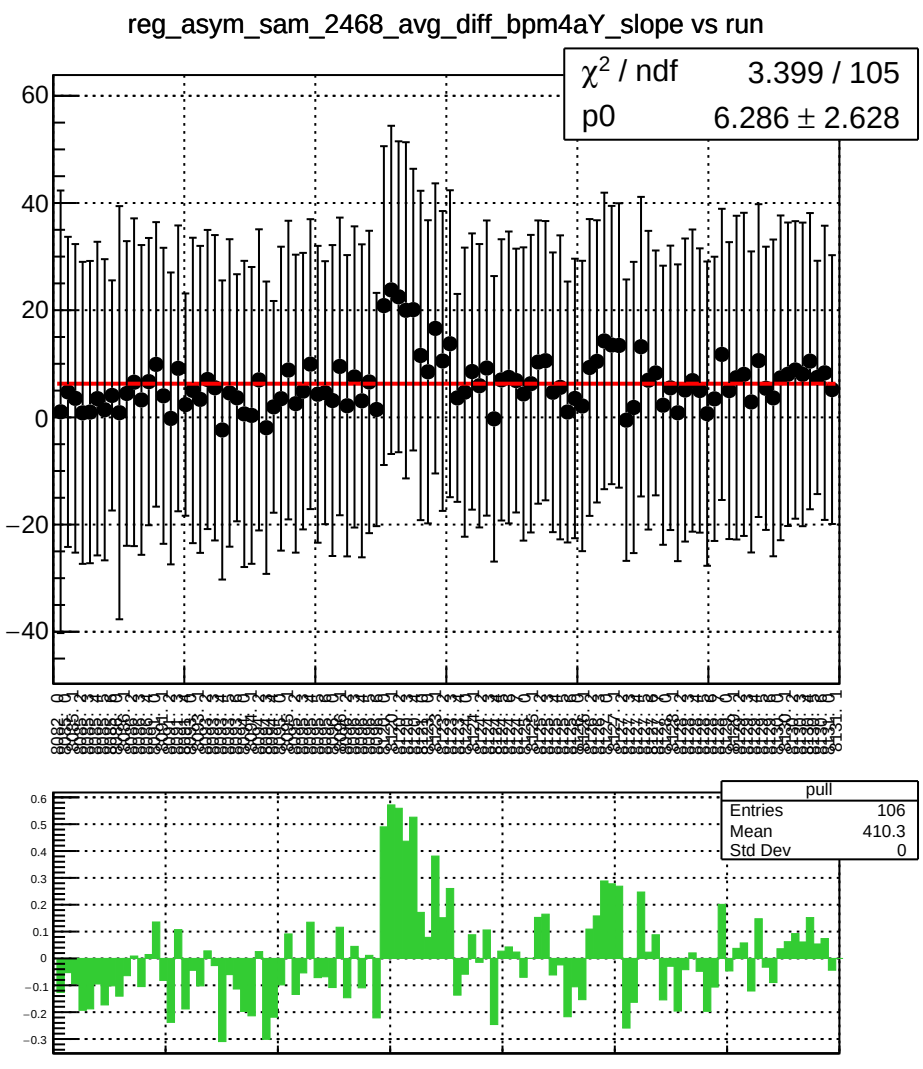

pull1D
Entries 106
Mean 0.001373
Std Dev 0.2452

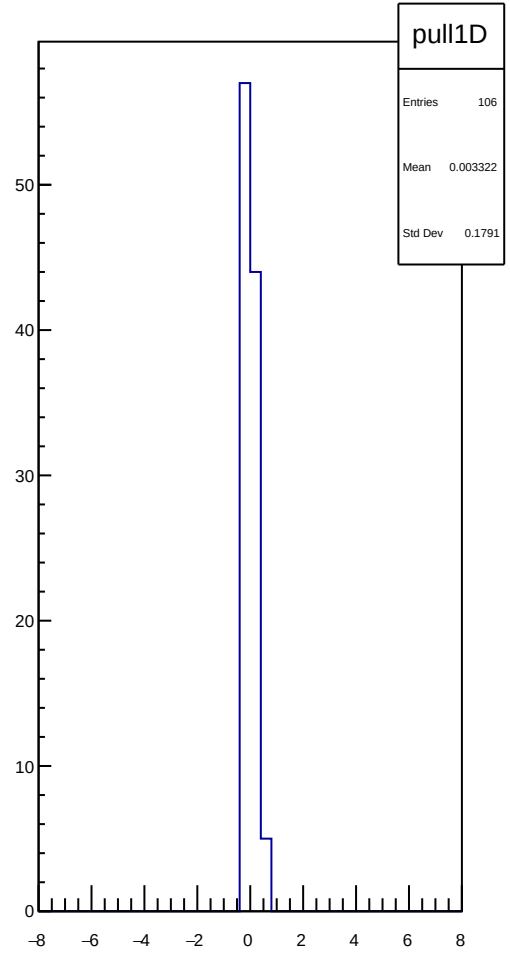

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 4.432 / 105
p0 15.28 ± 1.389
pull
Entries 106
Mean 444
Std Dev 0

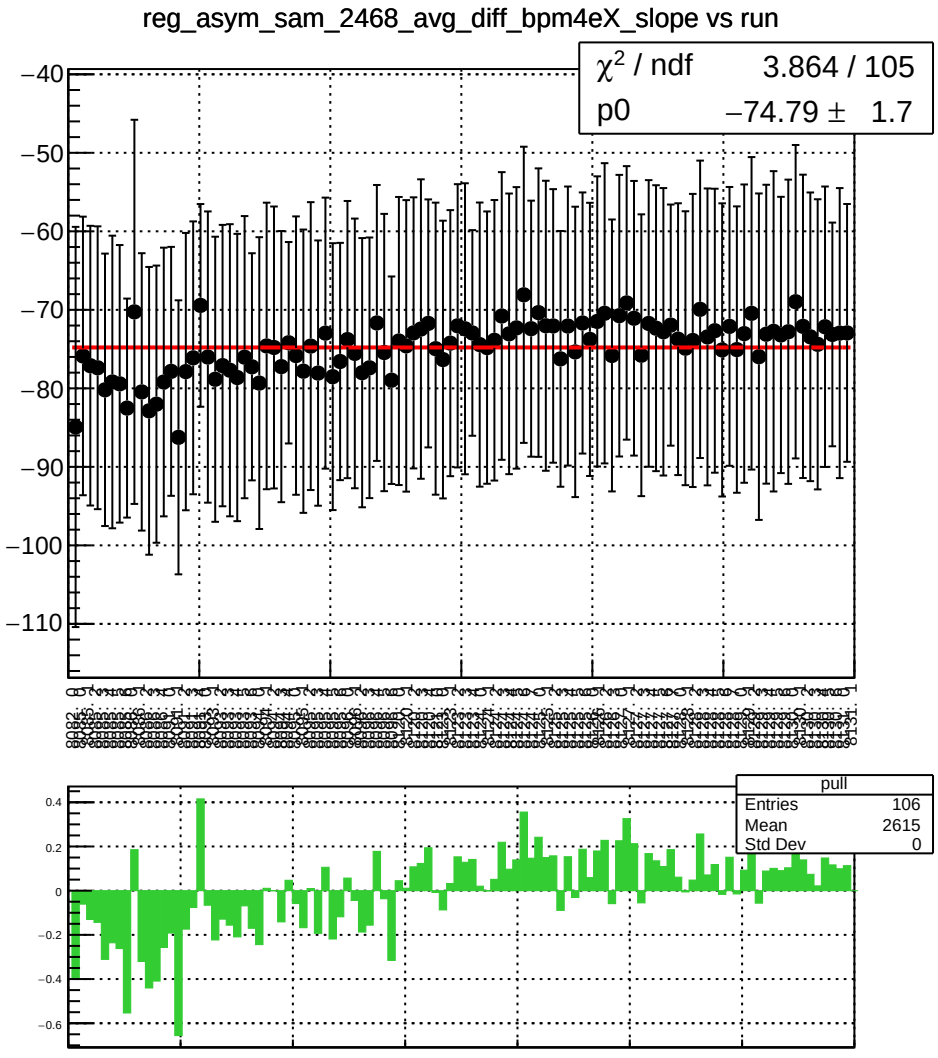

pull1D
Entries 106
Mean −0.003628
Std Dev 0.2044

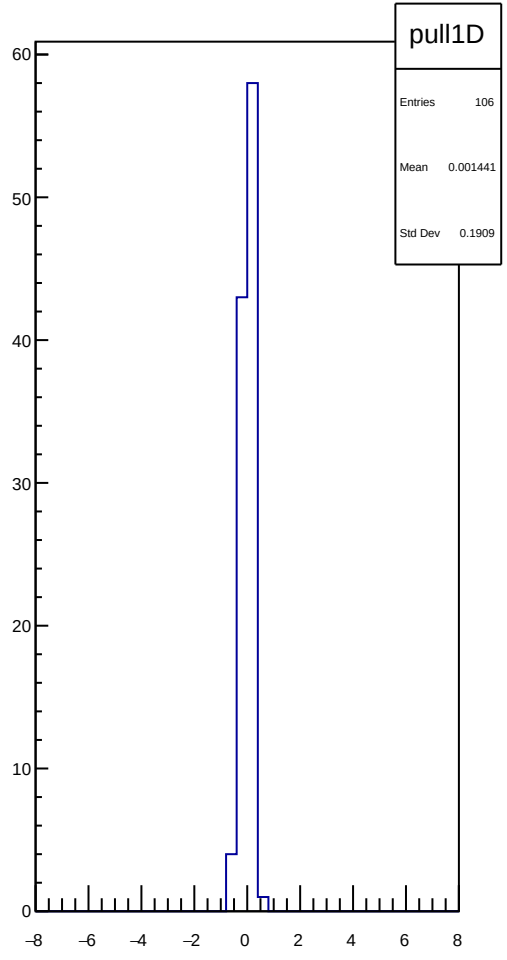

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 12.6 / 105
p0 −0.181 ± 0.053
pull
Entries 106
Mean 593.1
Std Dev 0
pull1D
Entries 106
Mean −0.006679
Std Dev 0.3448

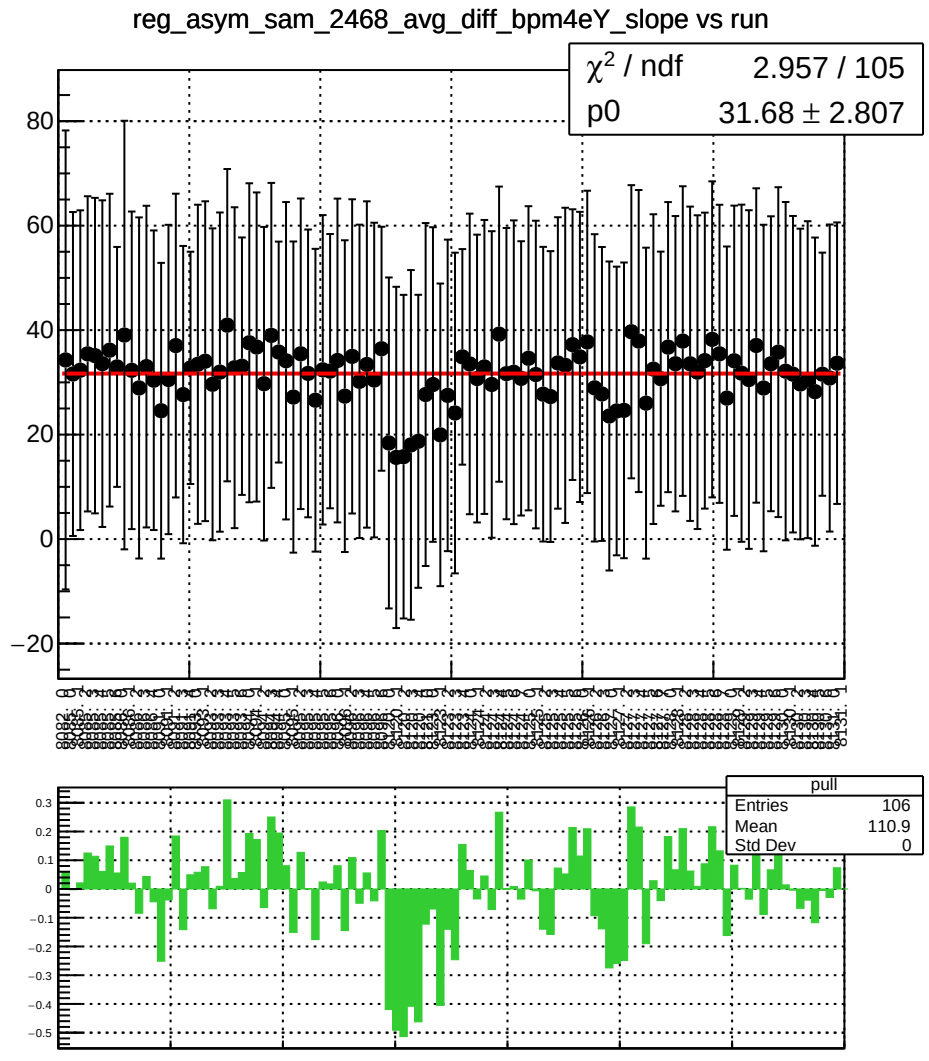

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 3.782 / 105
p0 −18.88 ± 1.789
pull
Entries 106
Mean 857.6
Std Dev 0
pull1D
Entries 106
Mean −0.004612
Std Dev 0.1888

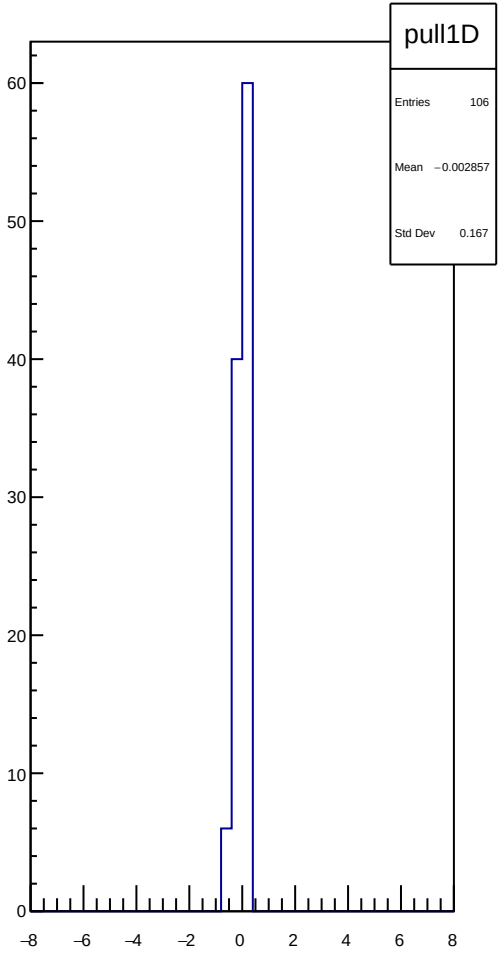

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.399 / 105
p0 6.286 ± 2.628
pull
Entries 106
Mean 410.3
Std Dev 0

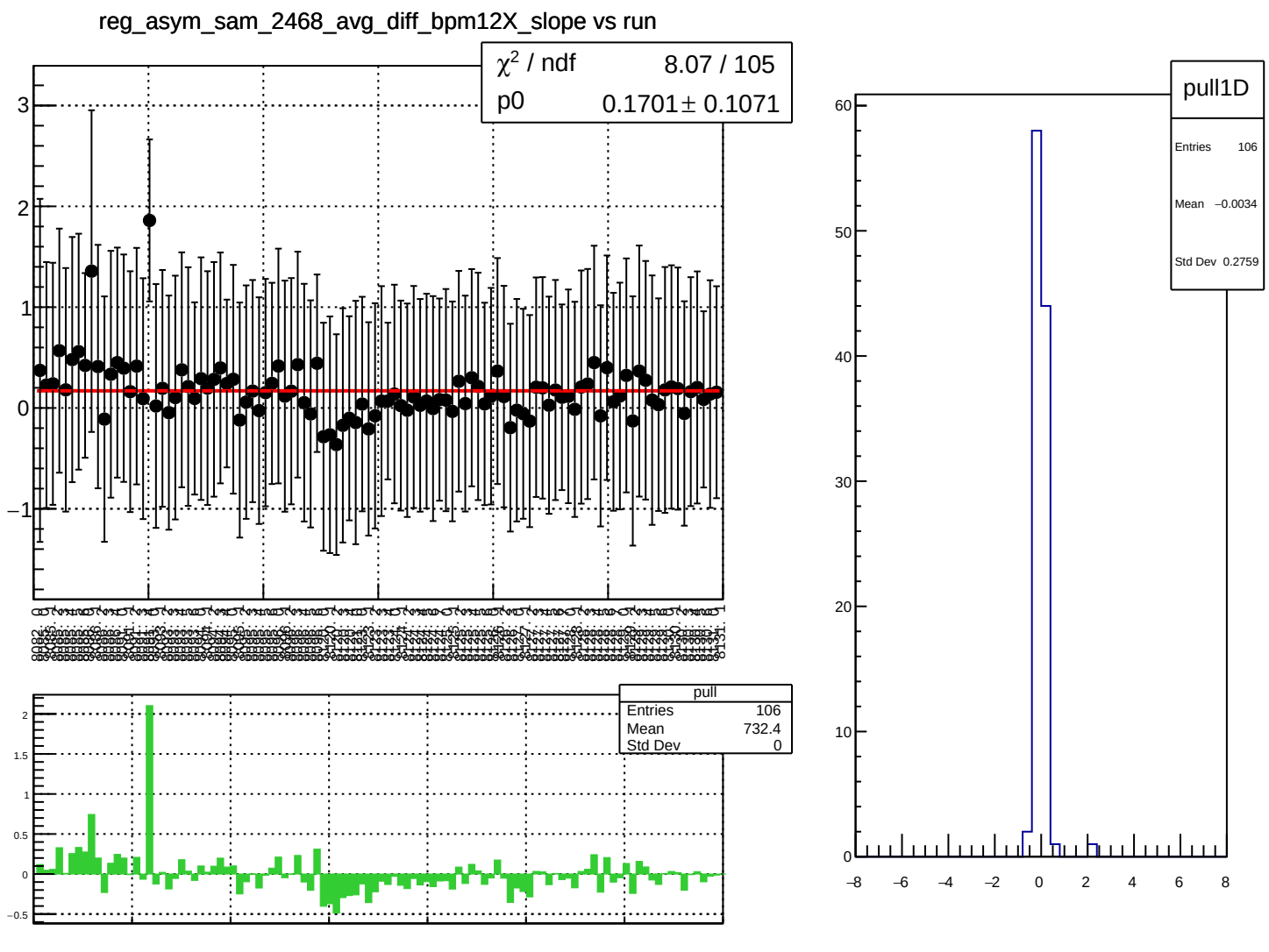

pull1D
Entries 106
Mean 0.003322
Std Dev 0.1791

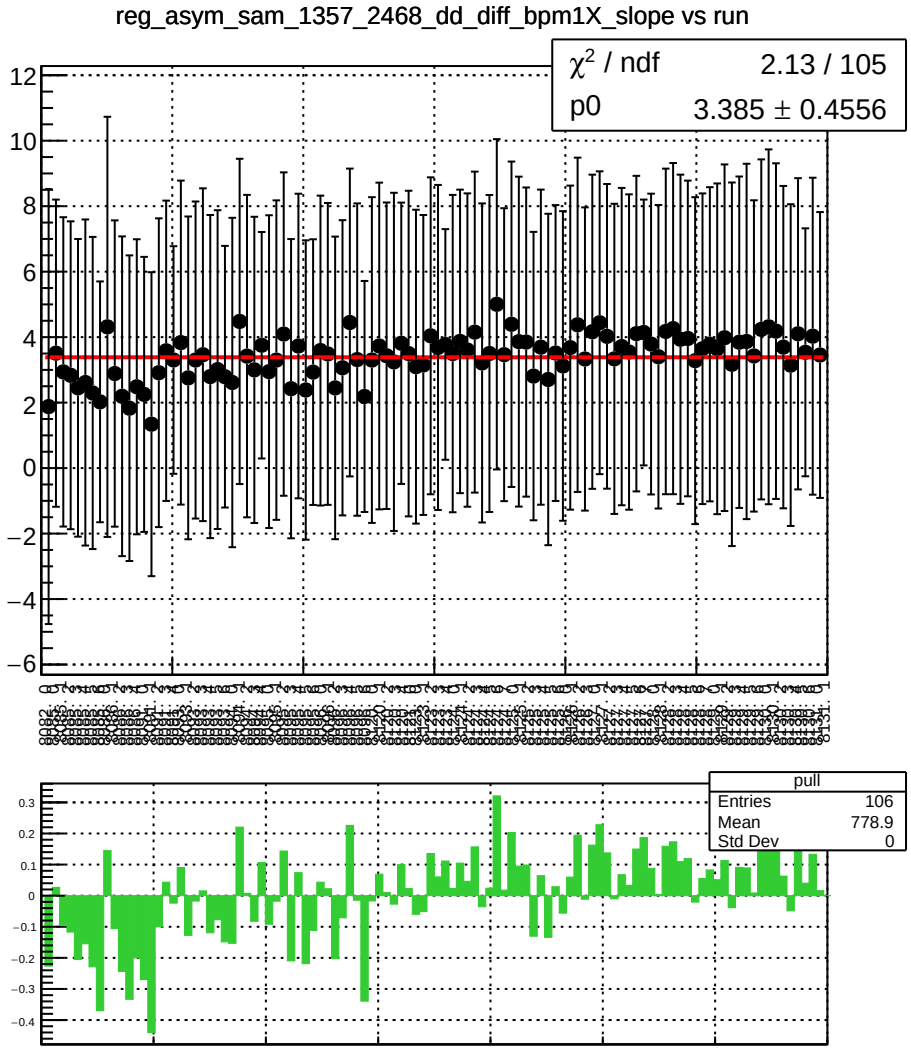

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.864 / 105
p0 −74.79 ± 1.7
−40
−50
−60
−70
−80
−90
−100
−110
pull
Entries 106
Mean 2615
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6

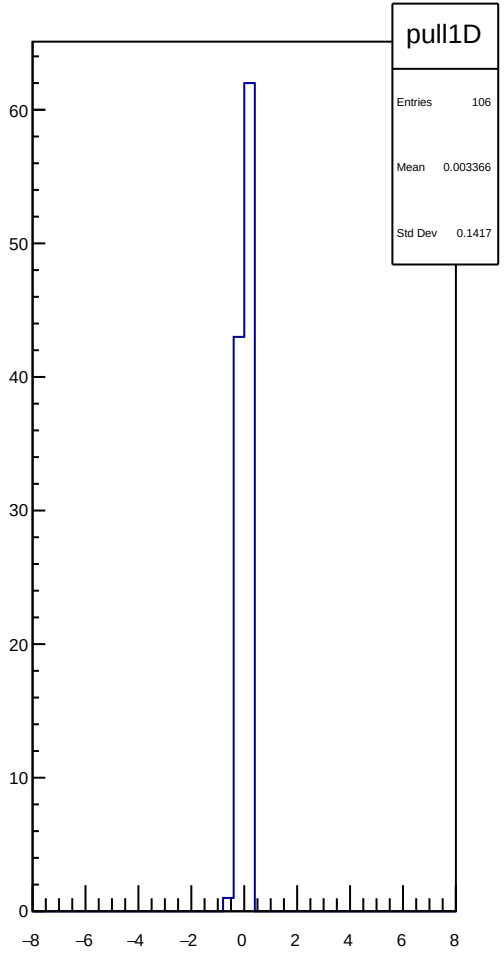

pull1D
Entries 106
Mean 0.001441
Std Dev 0.1909
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

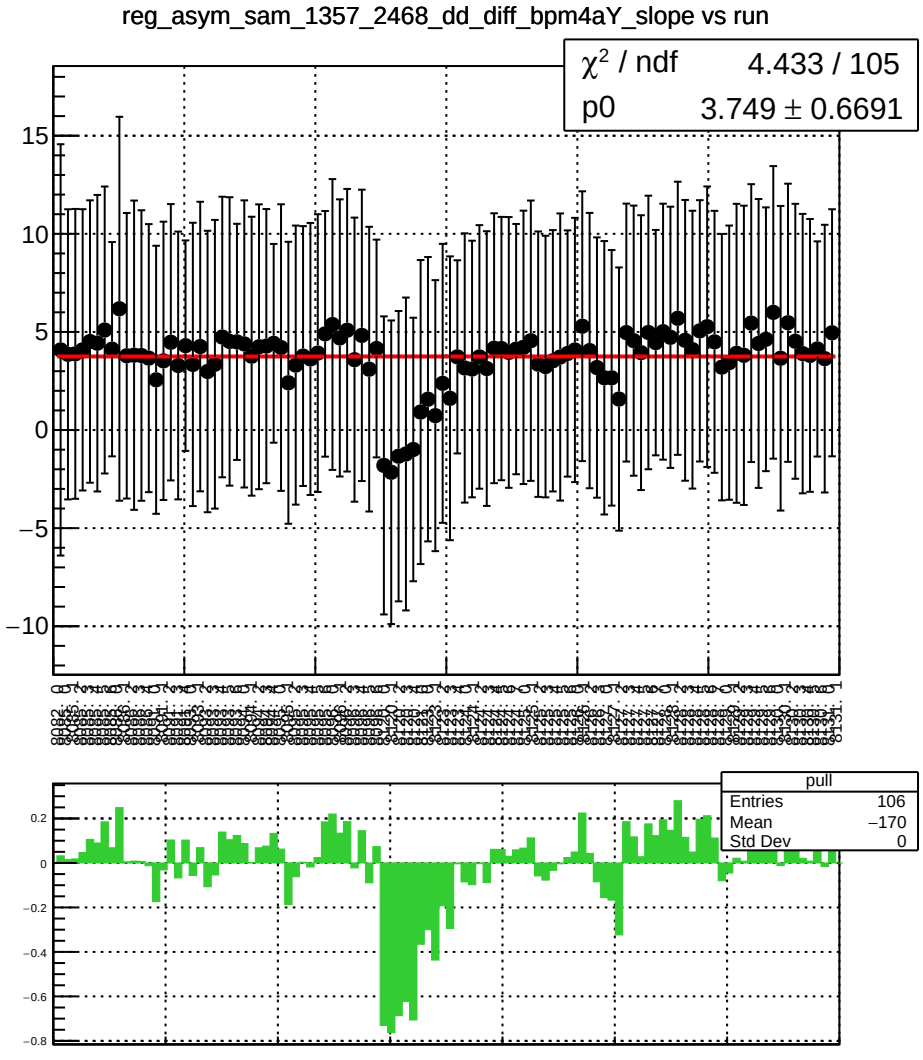

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 2.957 / 105
p0 31.68 ± 2.807
pull
Entries 106
Mean 110.9
Std Dev 0

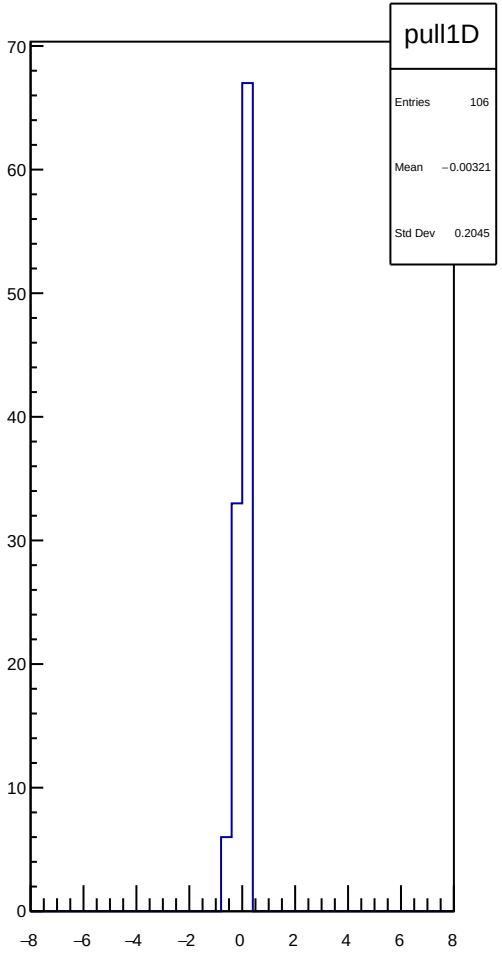

pull1D
Entries 106
Mean −0.002857
Std Dev 0.167

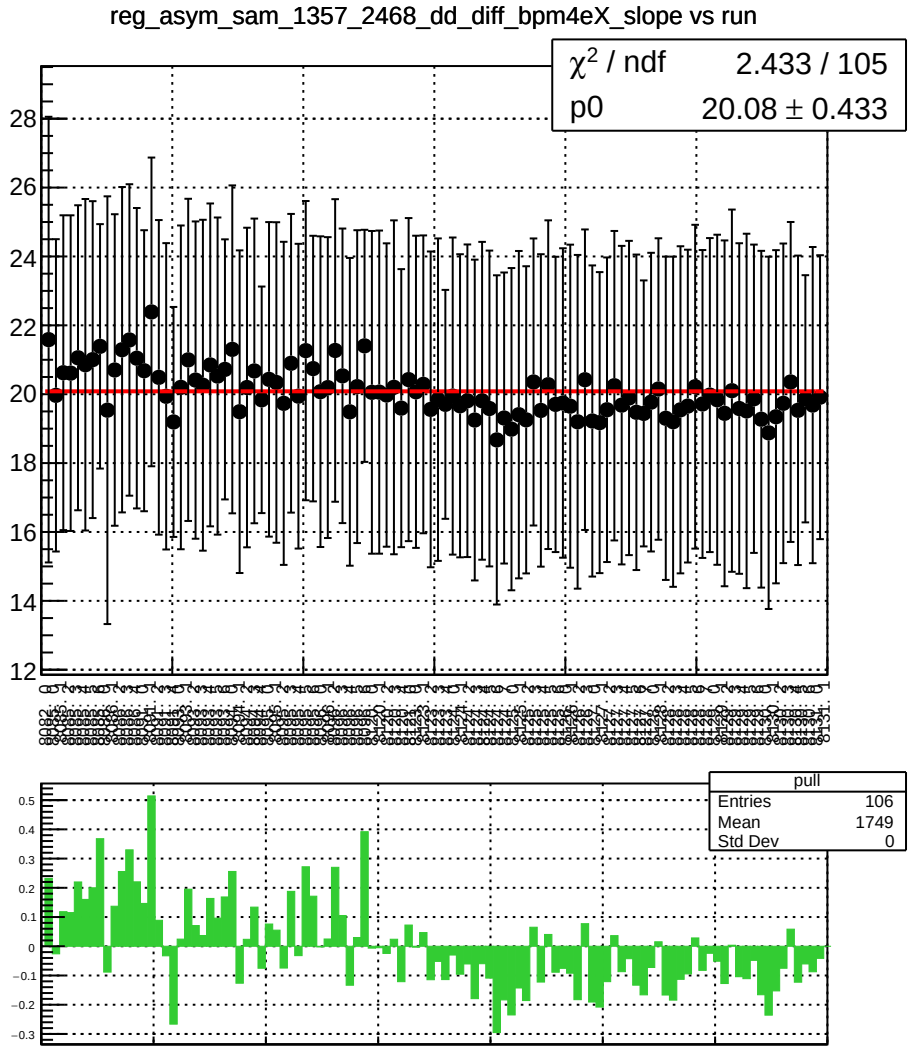

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 8.07 / 105
p0 0.1701 ± 0.1071
pull
Entries 106
Mean 732.4
Std Dev 0
pull1D
Entries 106
Mean −0.0034
Std Dev 0.2759

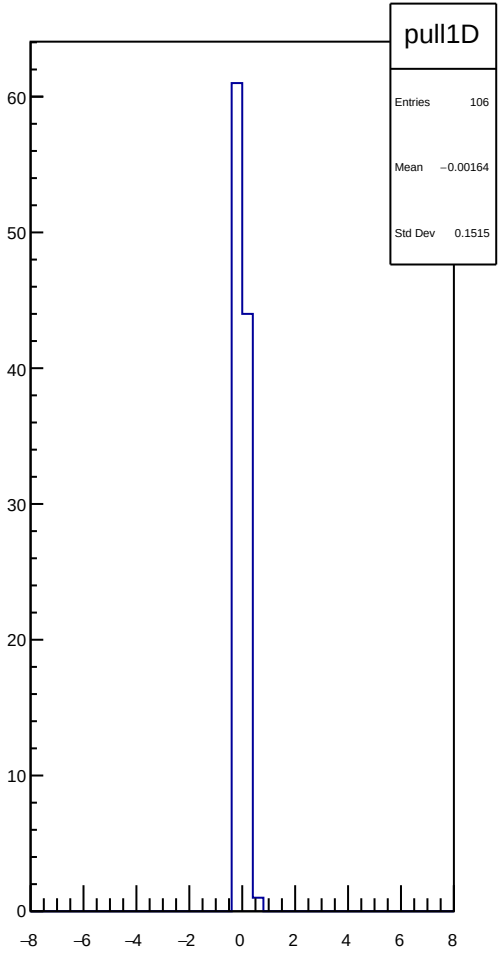

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 2.13 / 105
p0 3.385 ± 0.4556
pull
Entries 106
Mean 778.9
Std Dev 0

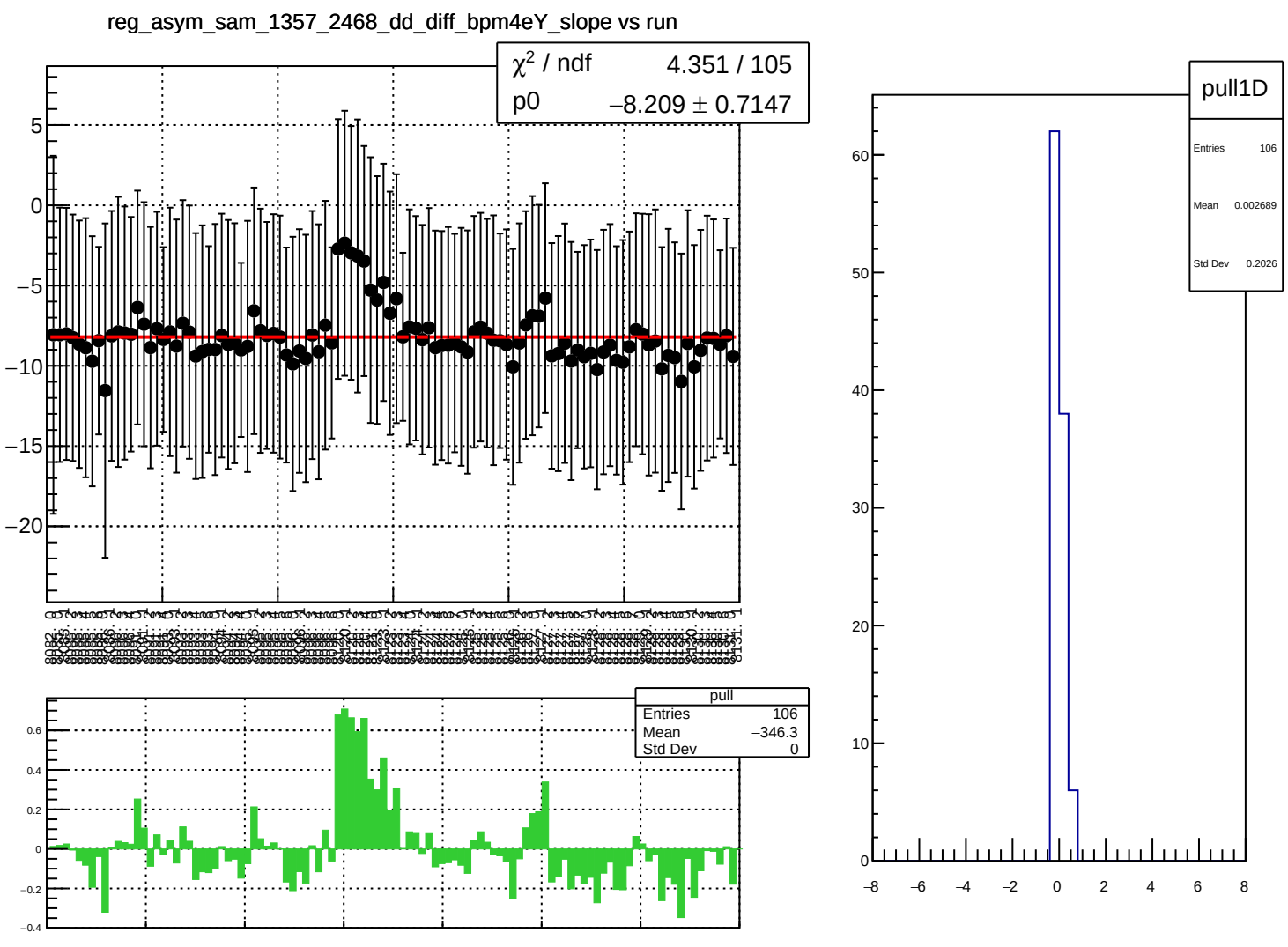

pull1D
Entries 106
Mean 0.003366
Std Dev 0.1417

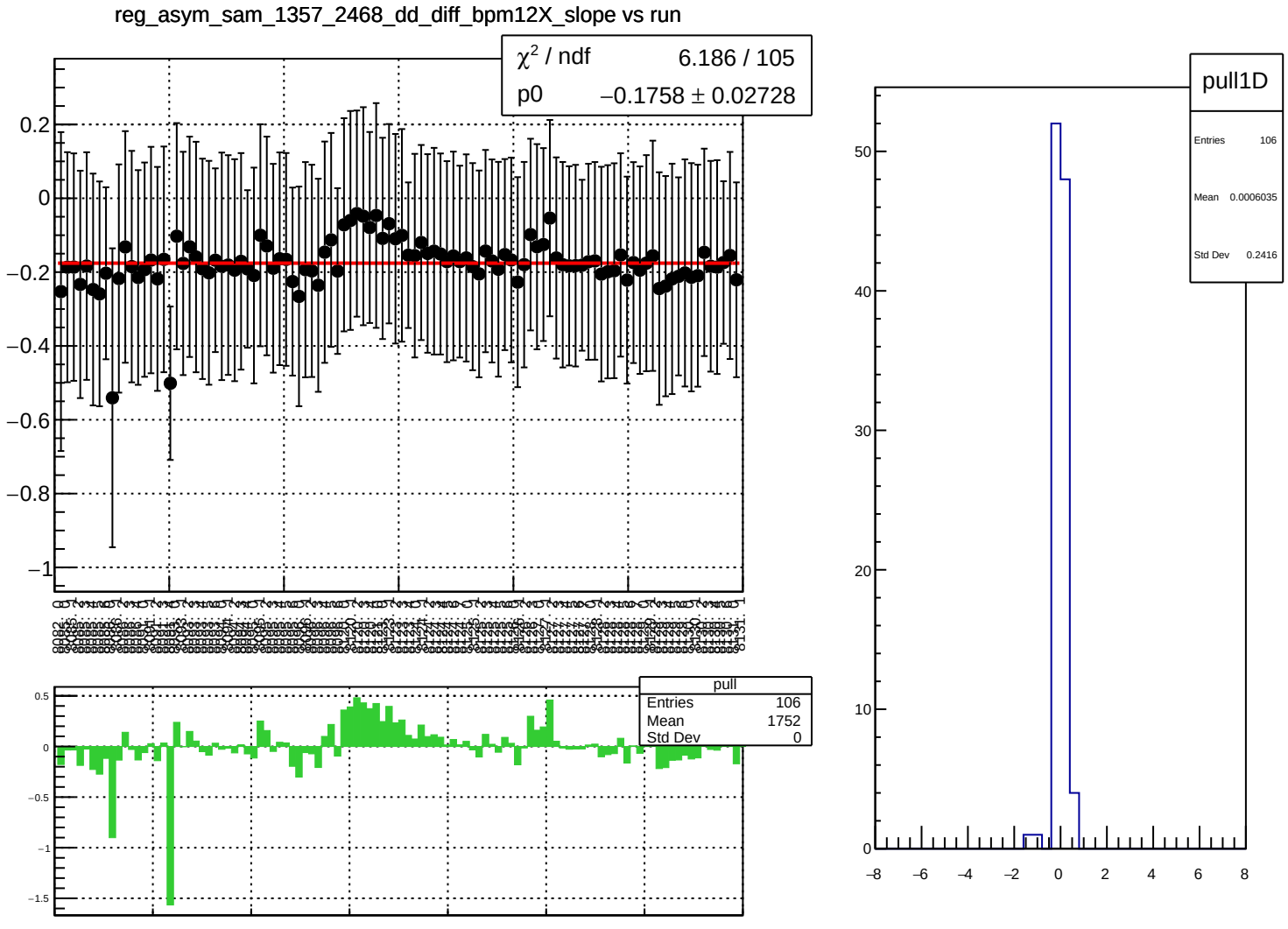

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.433 / 105
p0 3.749 ± 0.6691
pull
Entries 106
Mean −170
Std Dev 0

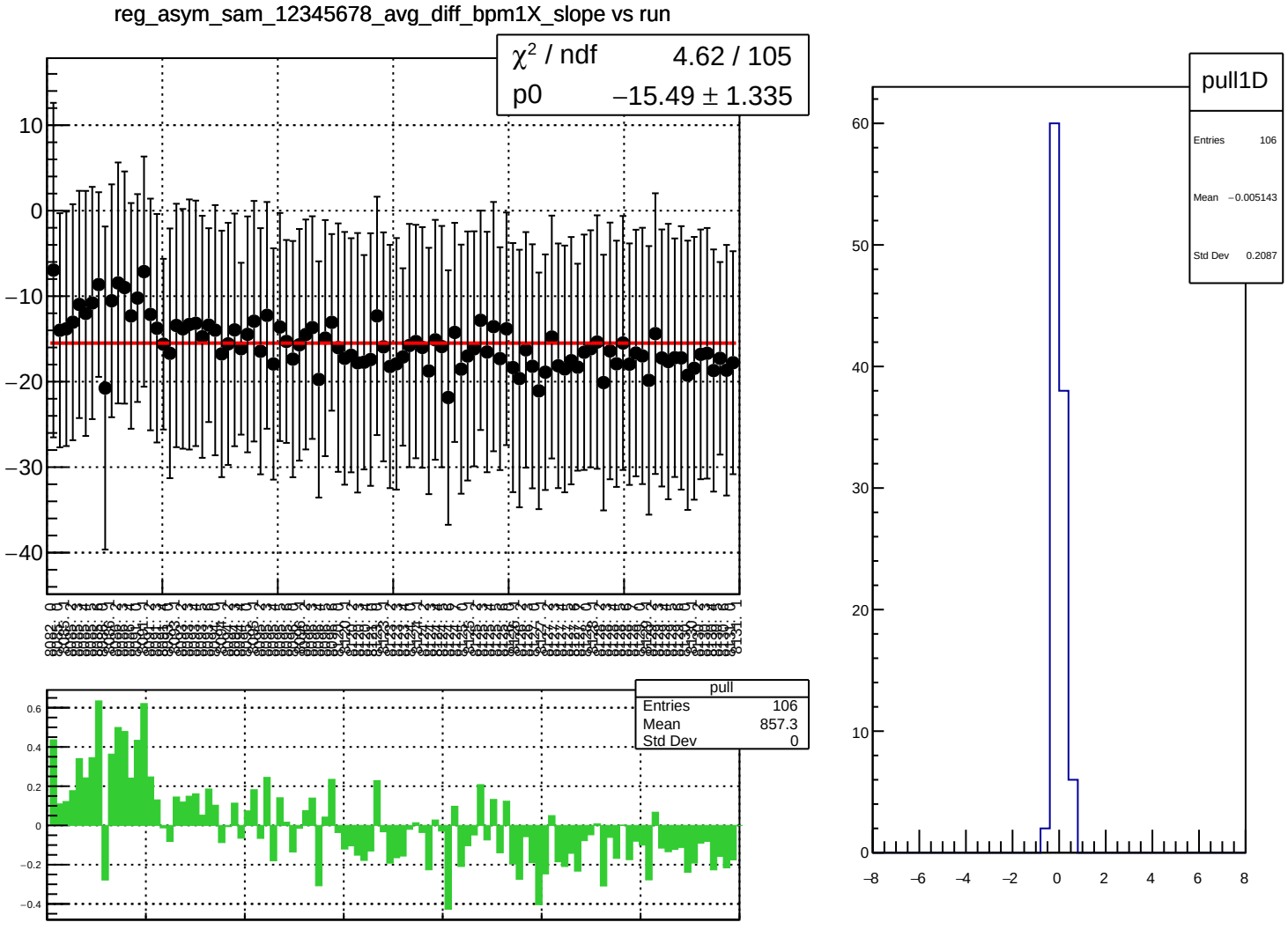

pull1D
Entries 106
Mean −0.00321
Std Dev 0.2045

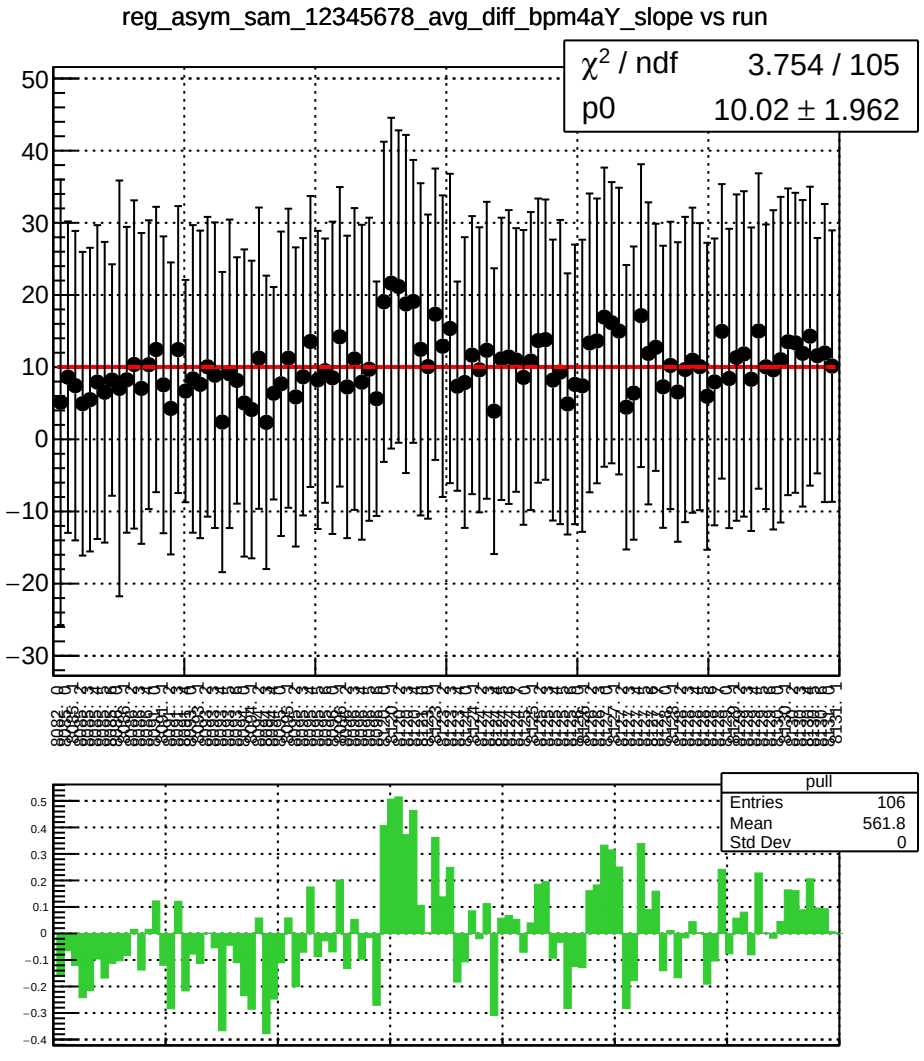

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.433 / 105
p0 20.08 ± 0.433
pull
Entries 106
Mean 1749
Std Dev 0

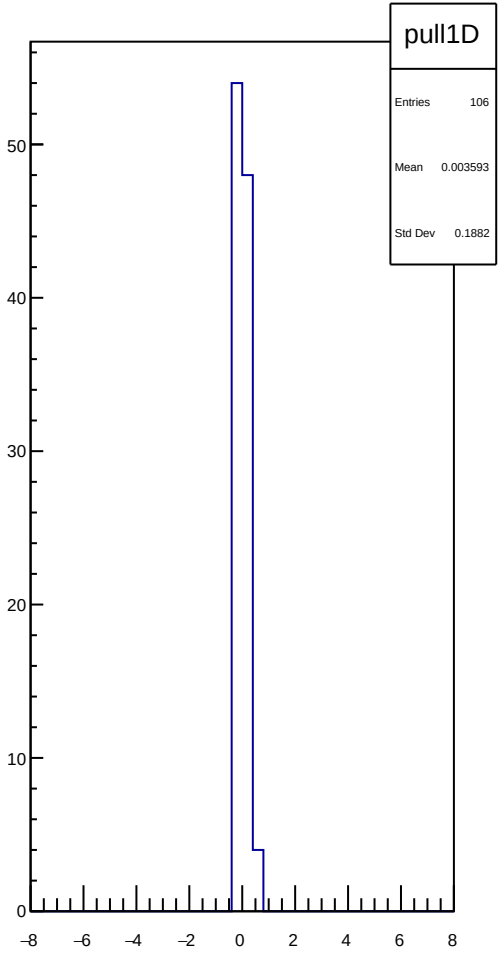

pull1D
Entries 106
Mean −0.00164
Std Dev 0.1515

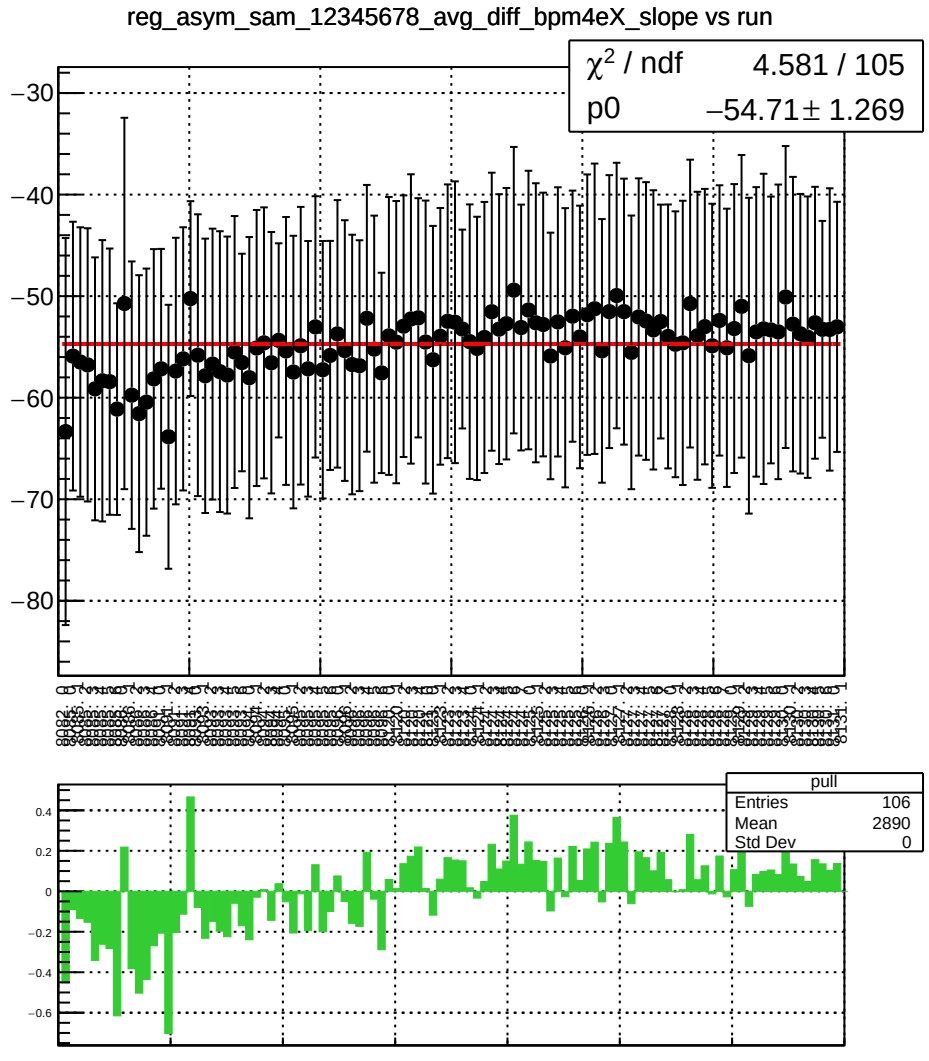

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.351 / 105
p0 −8.209 ± 0.7147
pull
Entries 106
Mean −346.3
Std Dev 0
pull1D
Entries 106
Mean 0.002689
Std Dev 0.2026

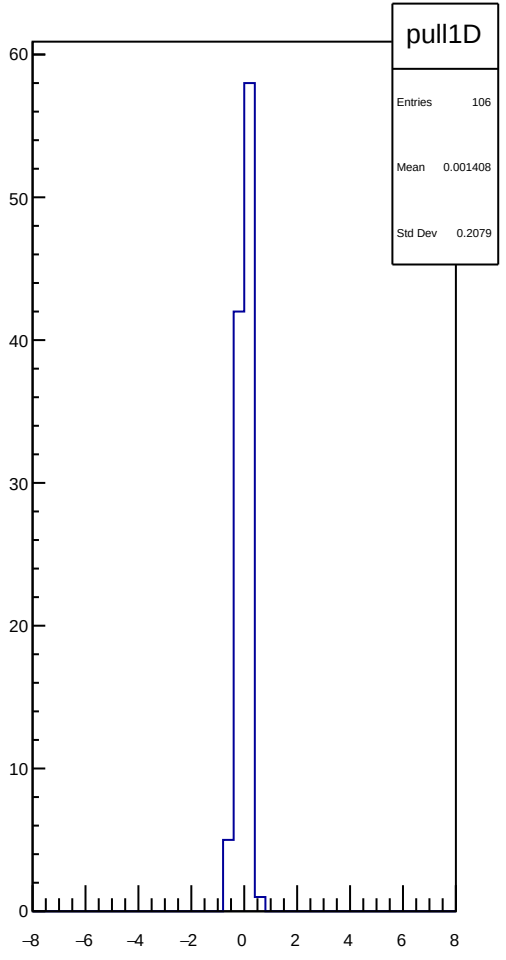

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 6.186 / 105
p0 −0.1758 ± 0.02728
pull
Entries 106
Mean 1752
Std Dev 0
pull1D
Entries 106
Mean 0.0006035
Std Dev 0.2416

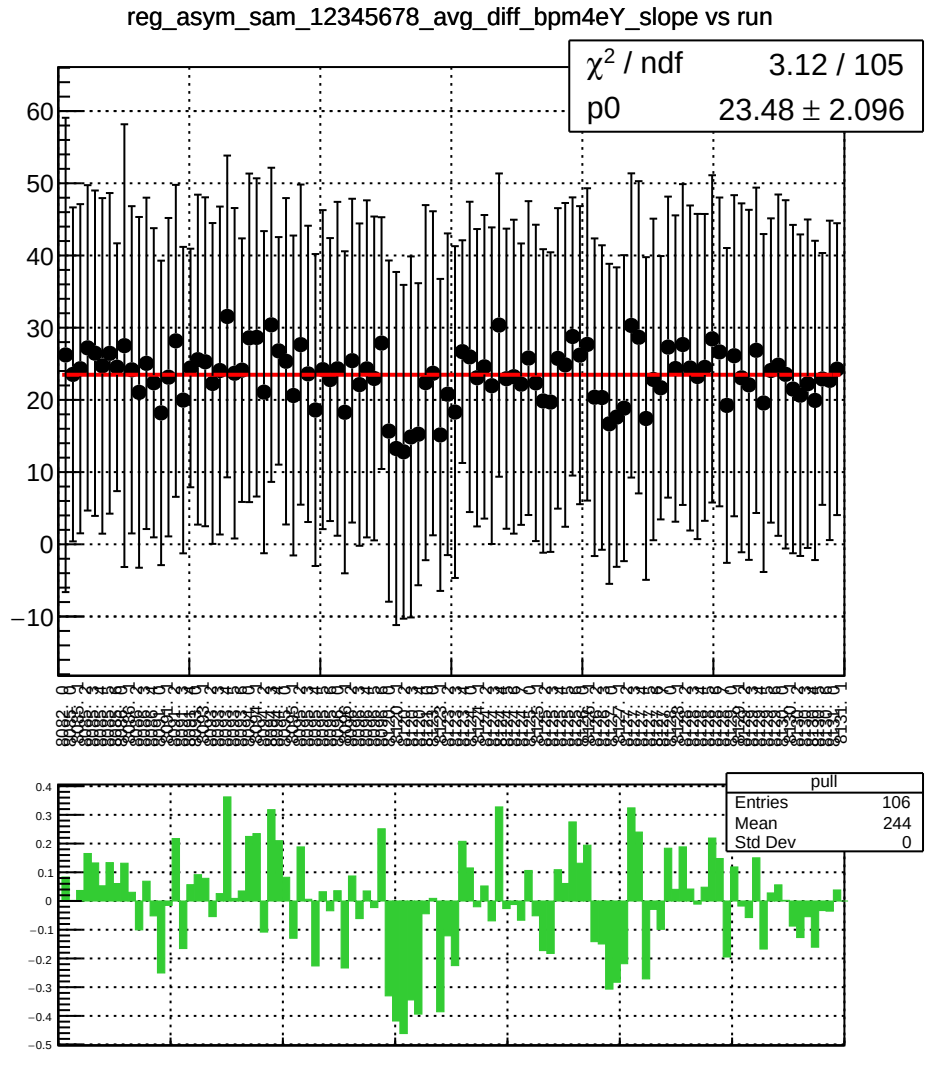

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 4.62 / 105
p0 −15.49 ± 1.335
pull
Entries 106
Mean 857.3
Std Dev 0
pull1D
Entries 106
Mean −0.005143
Std Dev 0.2087

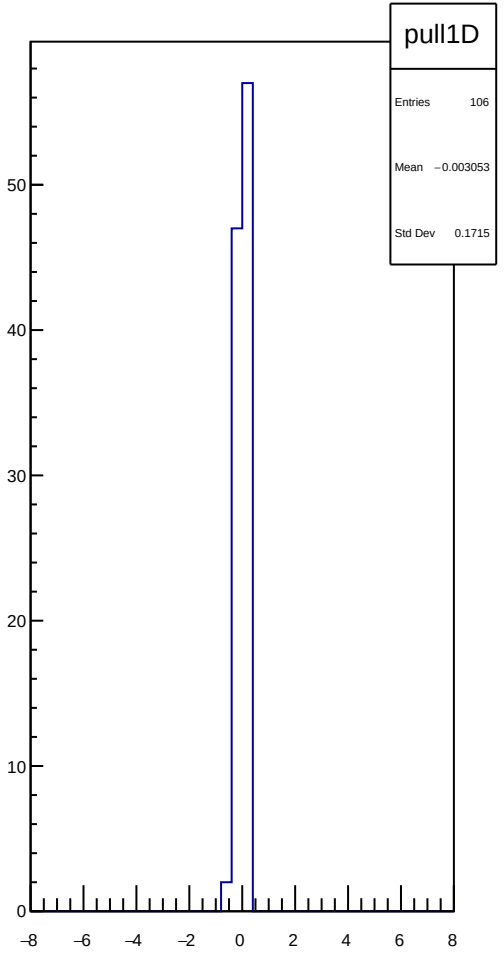

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.754 / 105
p0 10.02 ± 1.962
pull
Entries 106
Mean 561.8
Std Dev 0

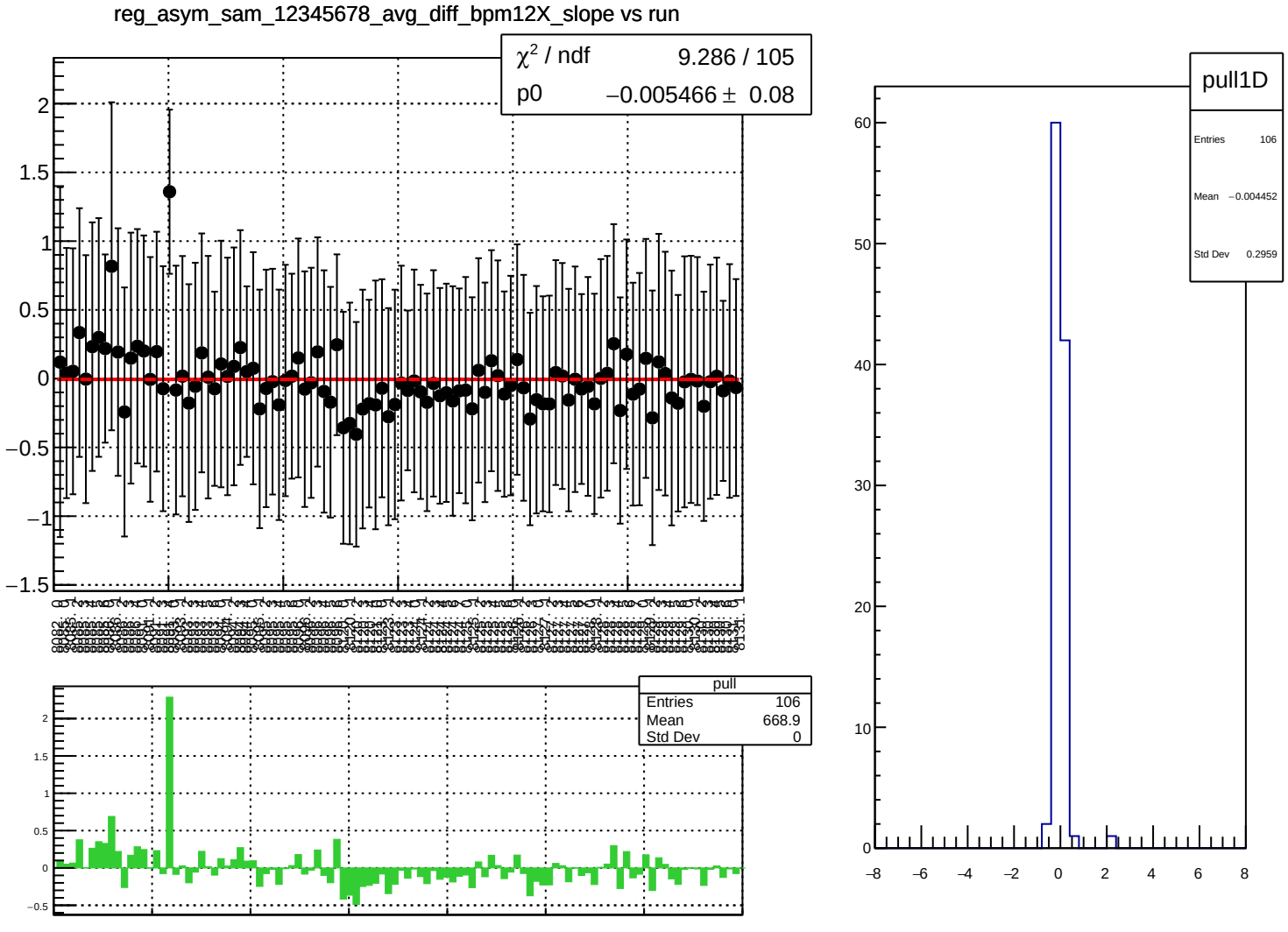

pull1D
Entries 106
Mean 0.003593
Std Dev 0.1882

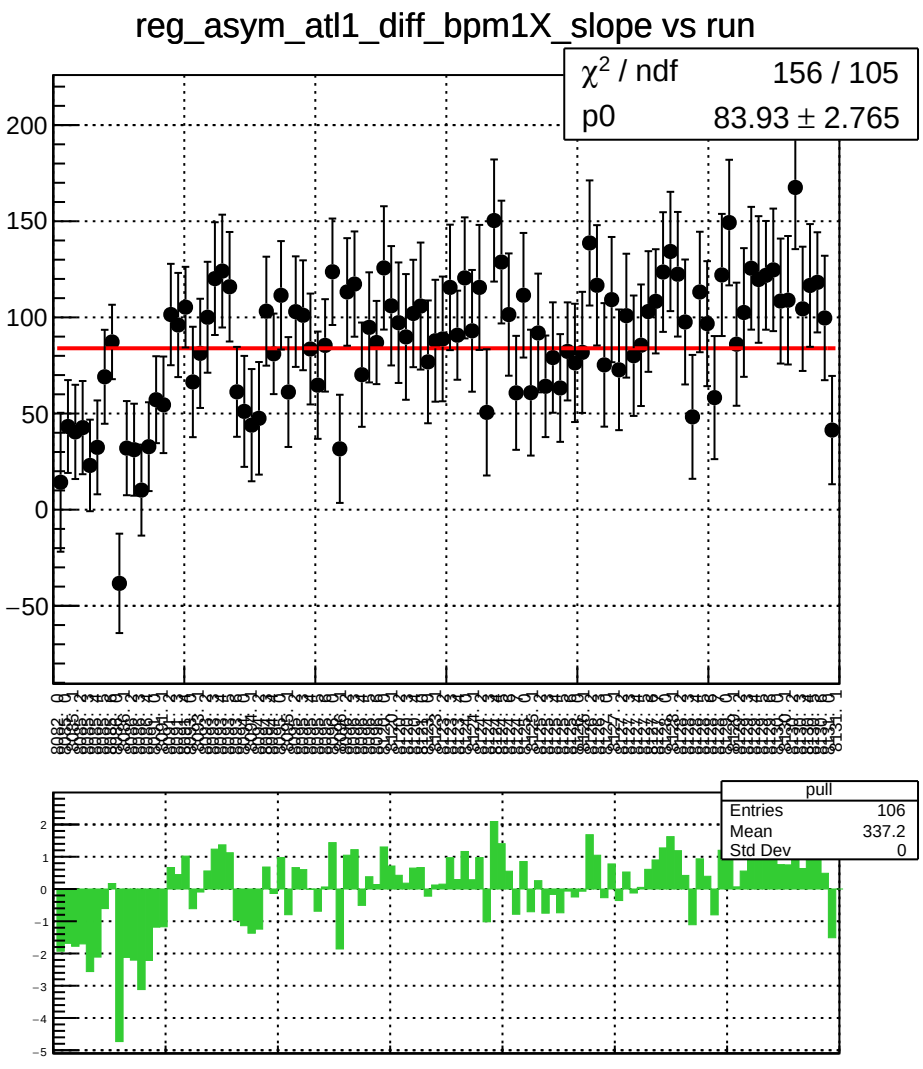

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.581 / 105
p0 −54.71± 1.269
−30
−40
−50
−60
−70
−80
pull
Entries 106
Mean 2890
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6

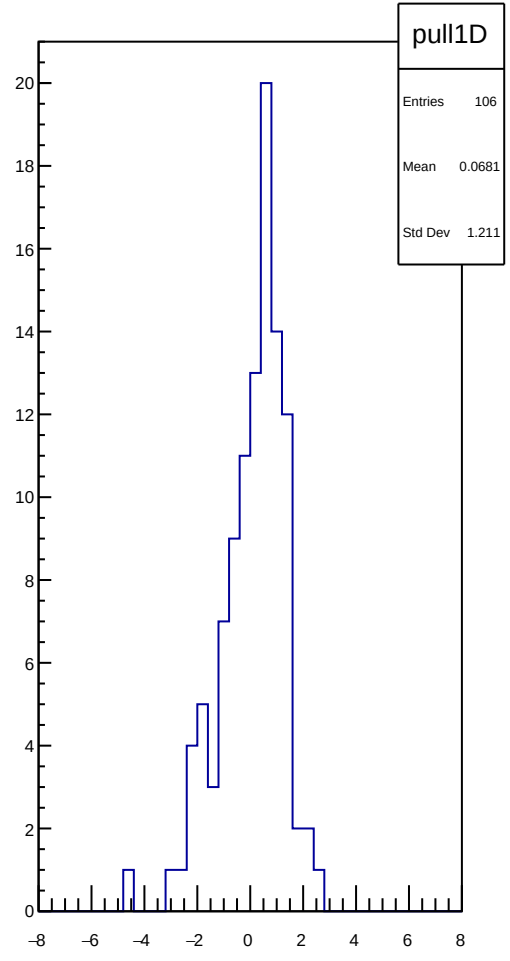

pull1D
Entries 106
Mean 0.001408
Std Dev 0.2079
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

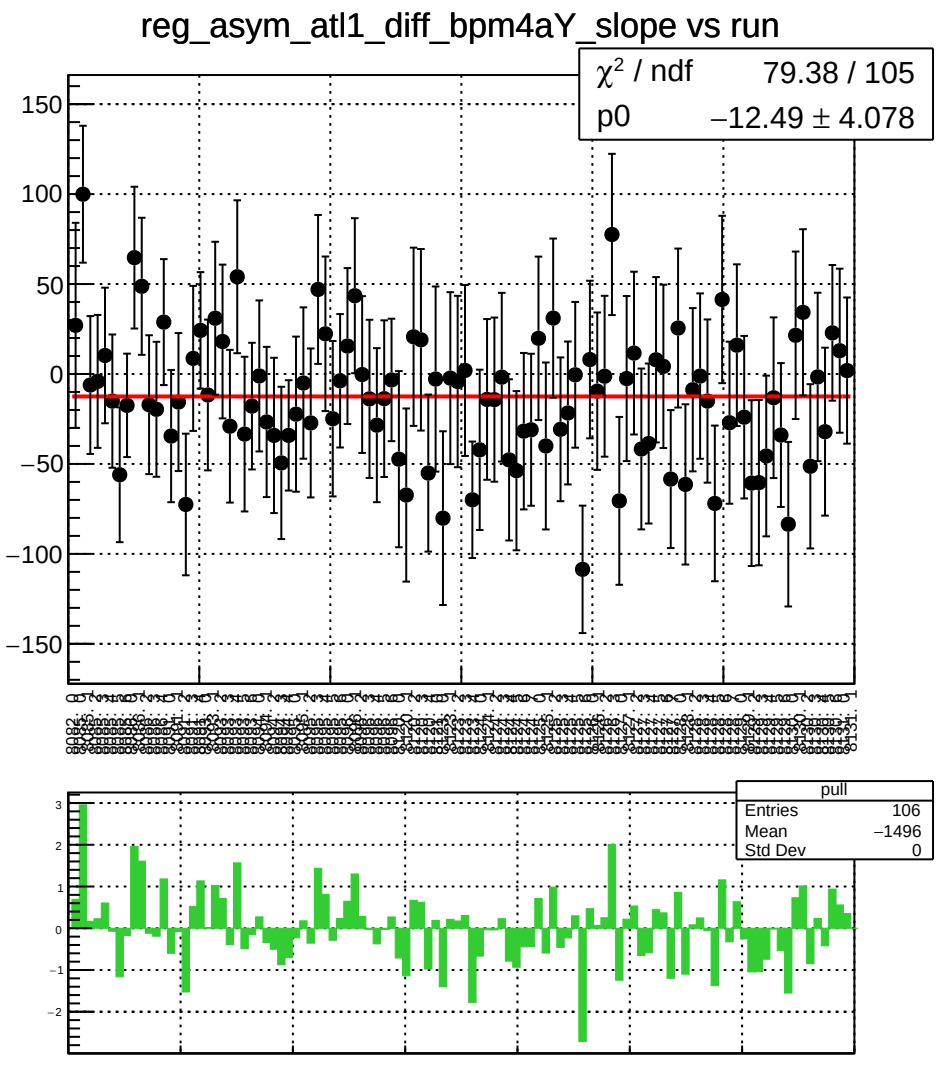

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.12 / 105
p0 23.48 ± 2.096
pull
Entries 106
Mean 244
Std Dev 0

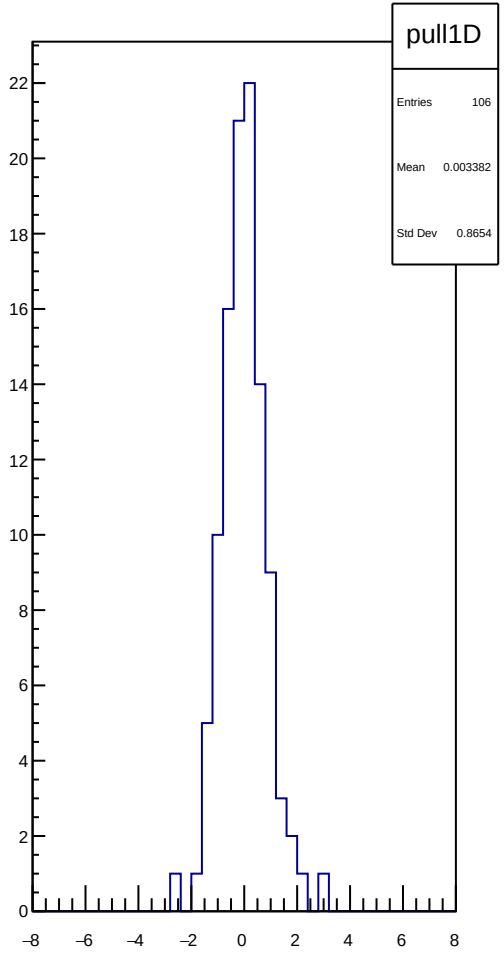

pull1D
Entries 106
Mean −0.003053
Std Dev 0.1715

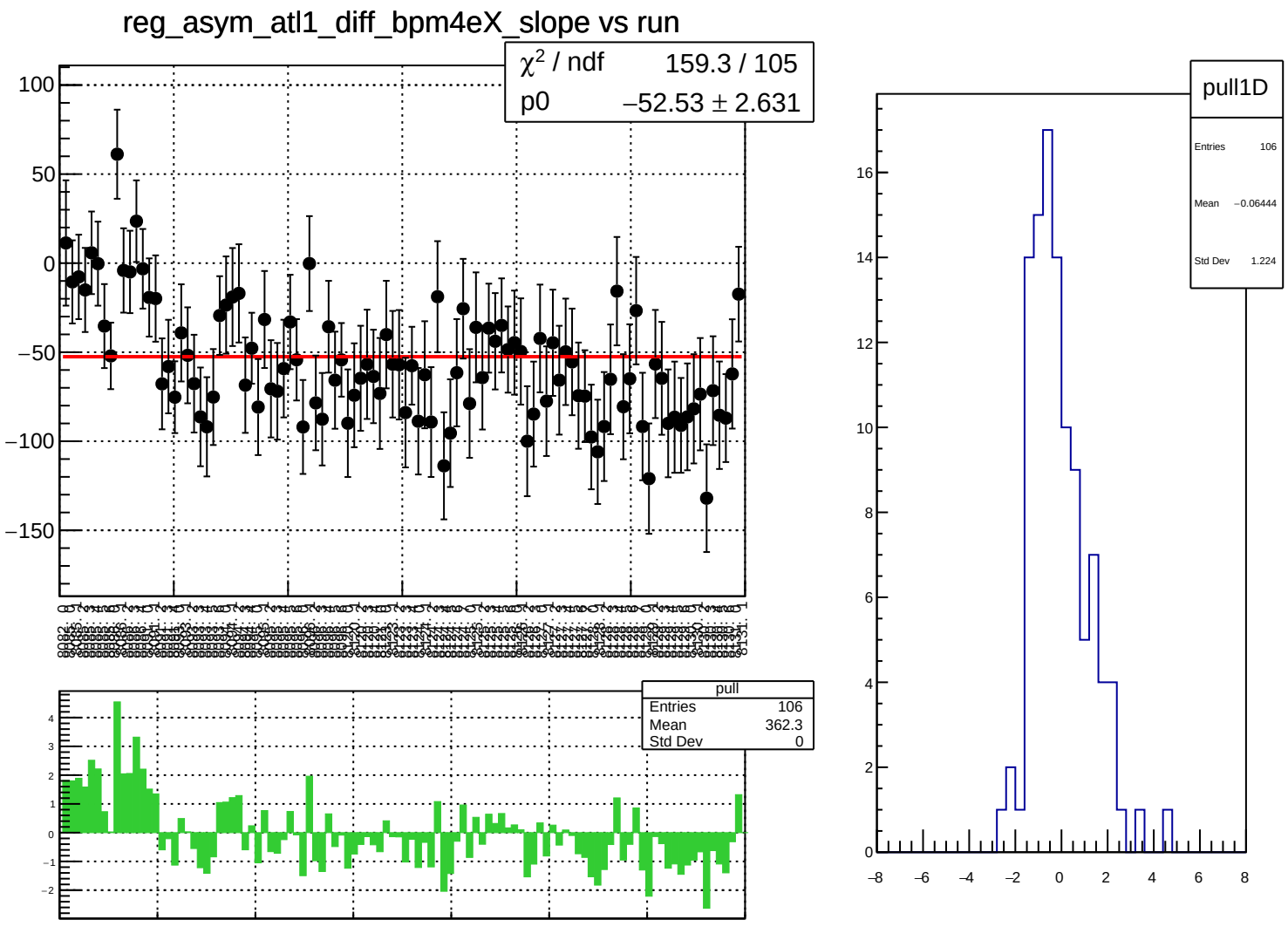

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 9.286 / 105
p0 −0.005466 ± 0.08
pull
Entries 106
Mean 668.9
Std Dev 0
pull1D
Entries 106
Mean −0.004452
Std Dev 0.2959

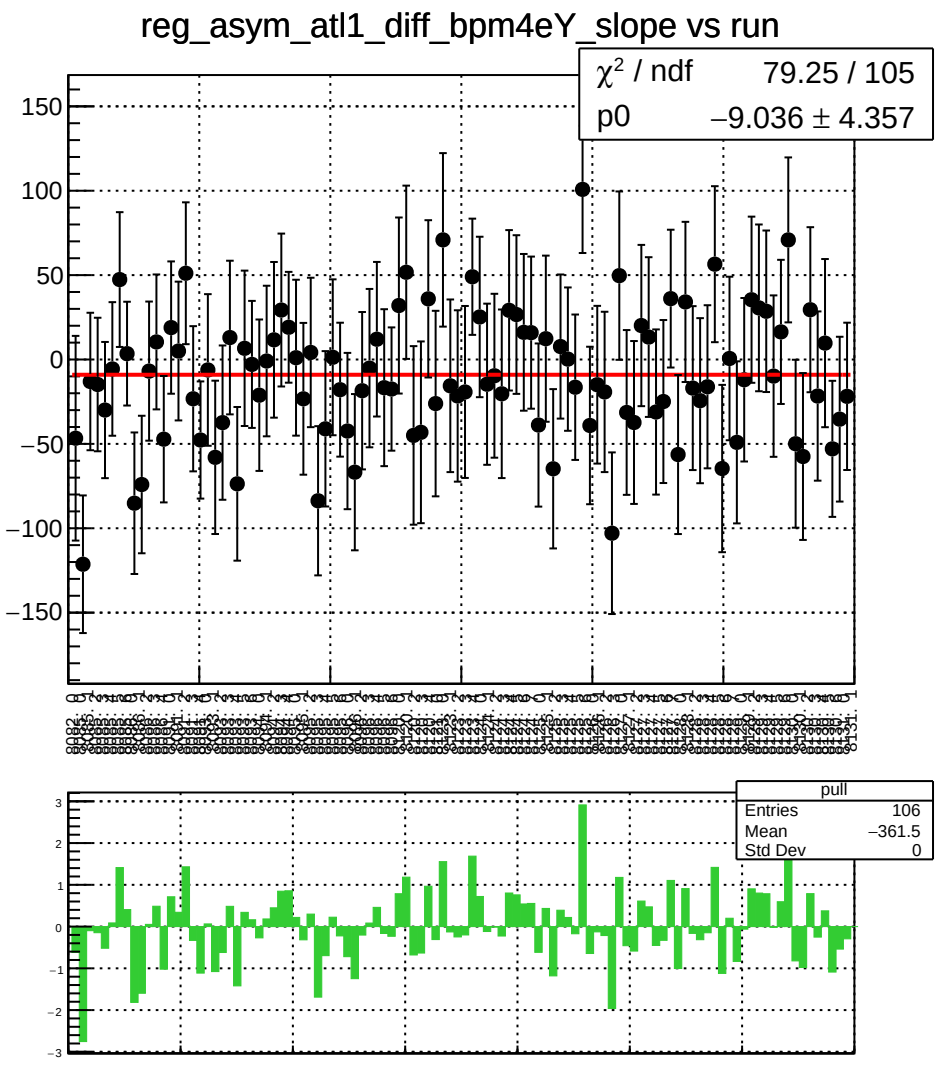

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 156 / 105
p0 83.93 ± 2.765
200
150
100
50
0
−50
pull
Entries 106
Mean 337.2
Std Dev 0
2
1
0
−1
−2
−3
−4
−5

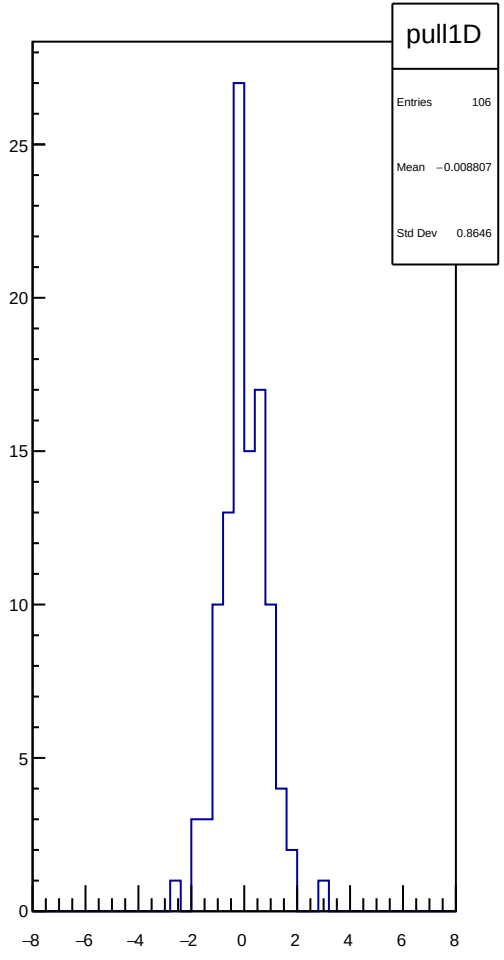

pull1D
Entries 106
Mean 0.0681
Std Dev 1.211
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

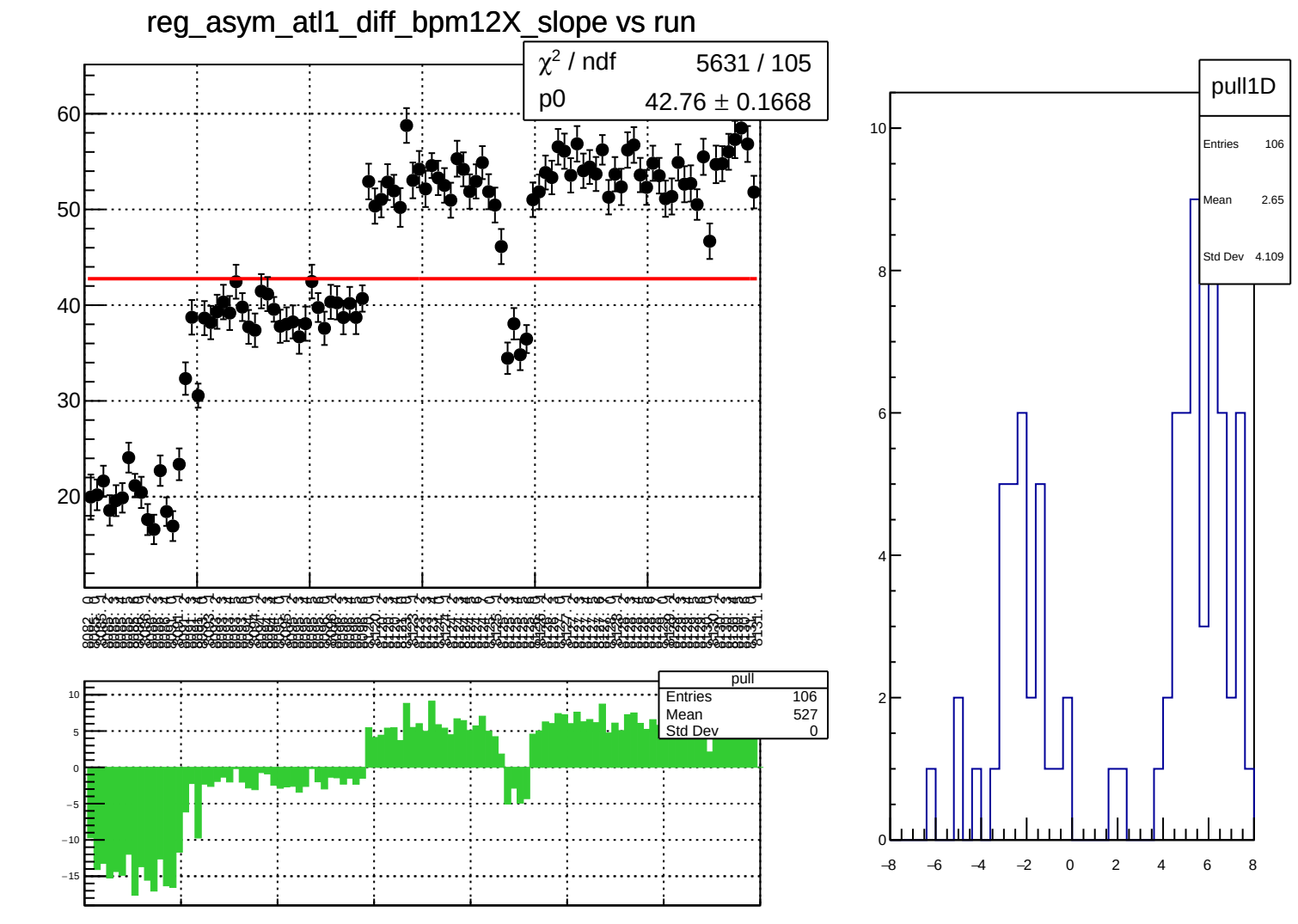

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 79.38 / 105
p0 −12.49 ± 4.078
150
100
50
0
−50
−100
−150
pull
Entries 106
Mean −1496
Std Dev 0
3
2
1
0
−1
−2

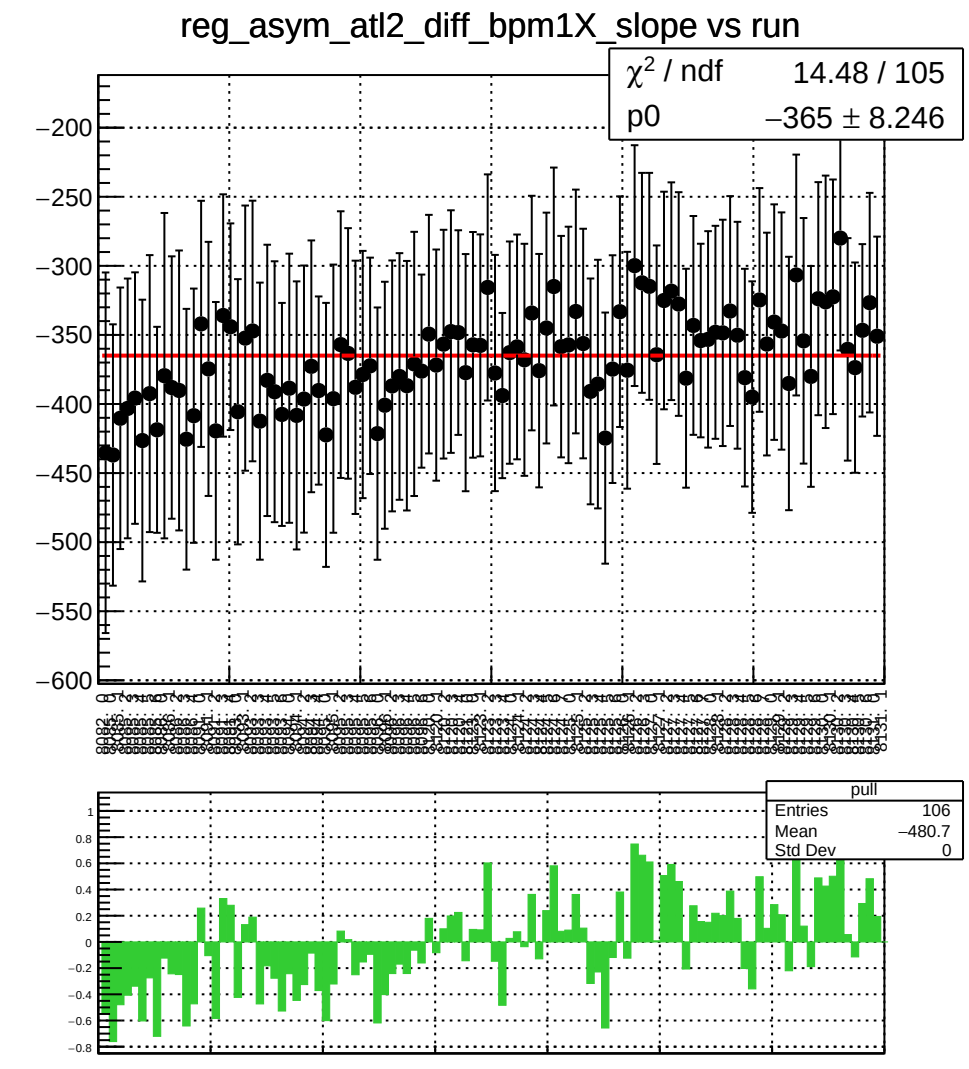

pull1D
Entries 106
Mean 0.003382
Std Dev 0.8654
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

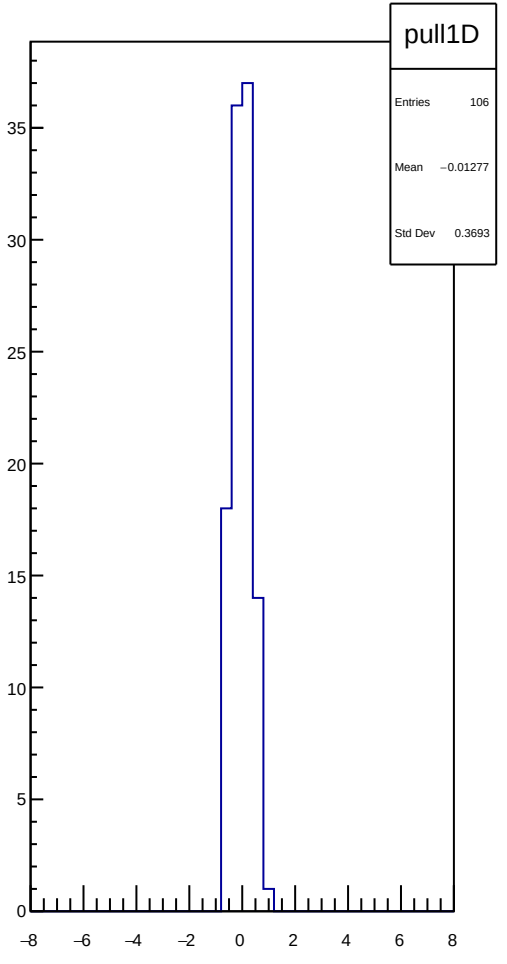

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 159.3 / 105
p0 −52.53 ± 2.631
100
50
0
−50
−100
−150
pull
Entries 106
Mean 362.3
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 106
Mean −0.06444
Std Dev 1.224
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

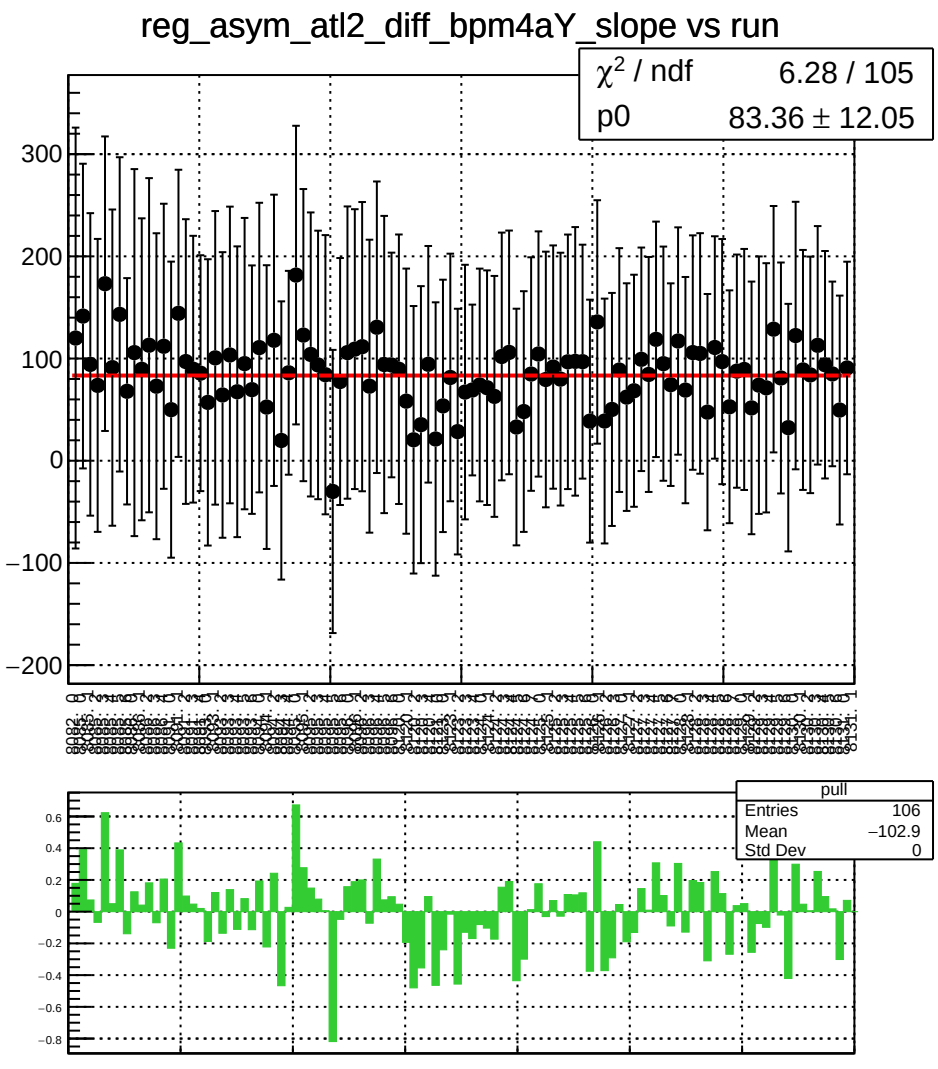

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 79.25 / 105
p0 −9.036 ± 4.357
150
100
50
0
−50
−100
−150
pull
Entries 106
Mean −361.5
Std Dev 0
3
2
1
0
−1
−2
−3

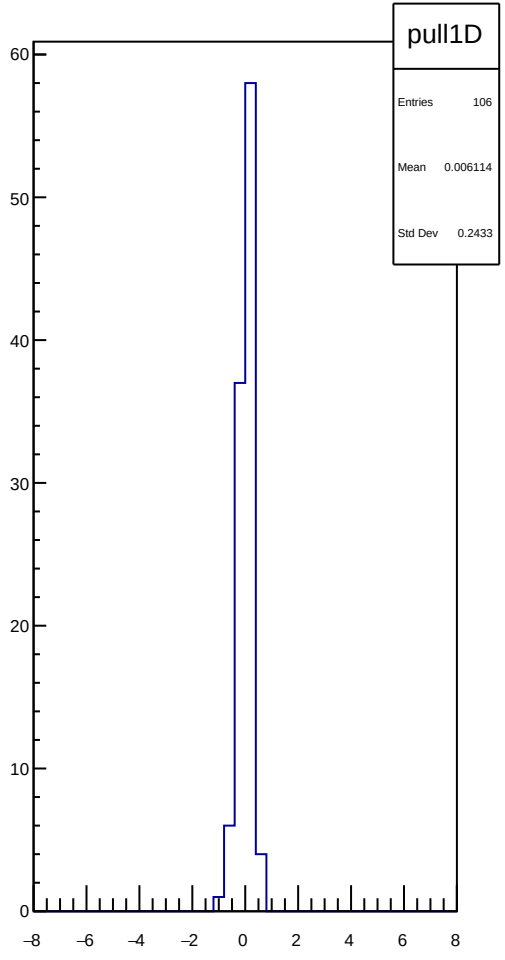

pull1D
Entries 106
Mean −0.008807
Std Dev 0.8646
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

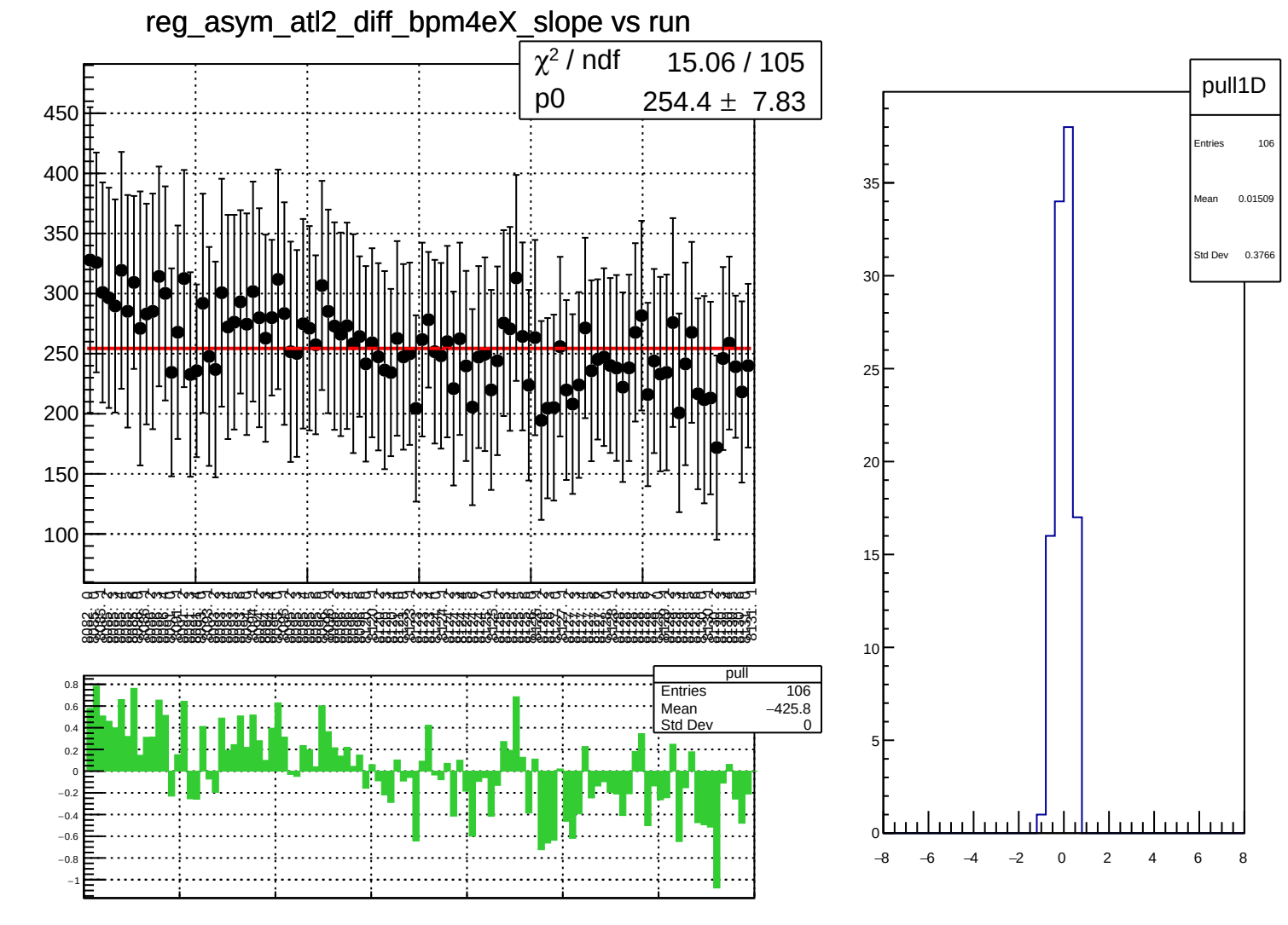

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 5631 / 105
p0 42.76 ± 0.1668
pull
Entries 106
Mean 527
Std Dev 0
pull1D
Entries 106
Mean 2.65
Std Dev 4.109

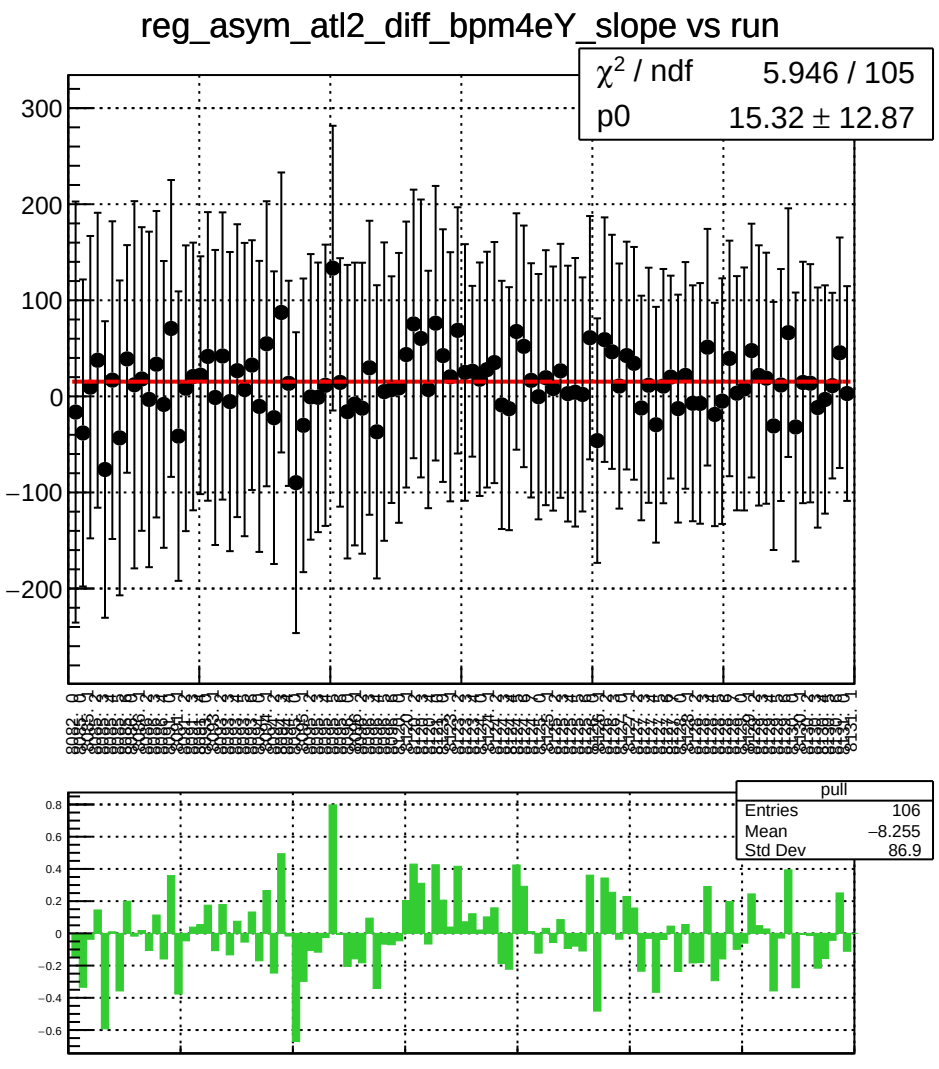

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 14.48 / 105
p0 −365 ± 8.246
−200
−250
−300
−350
−400
−450
−500
−550
−600
pull
Entries 106
Mean −480.7
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

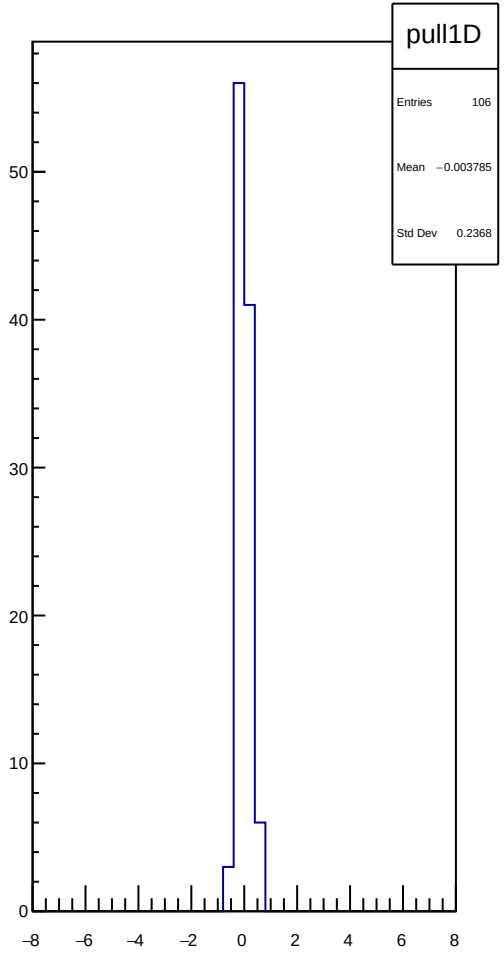

pull1D
Entries 106
Mean −0.01277
Std Dev 0.3693
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

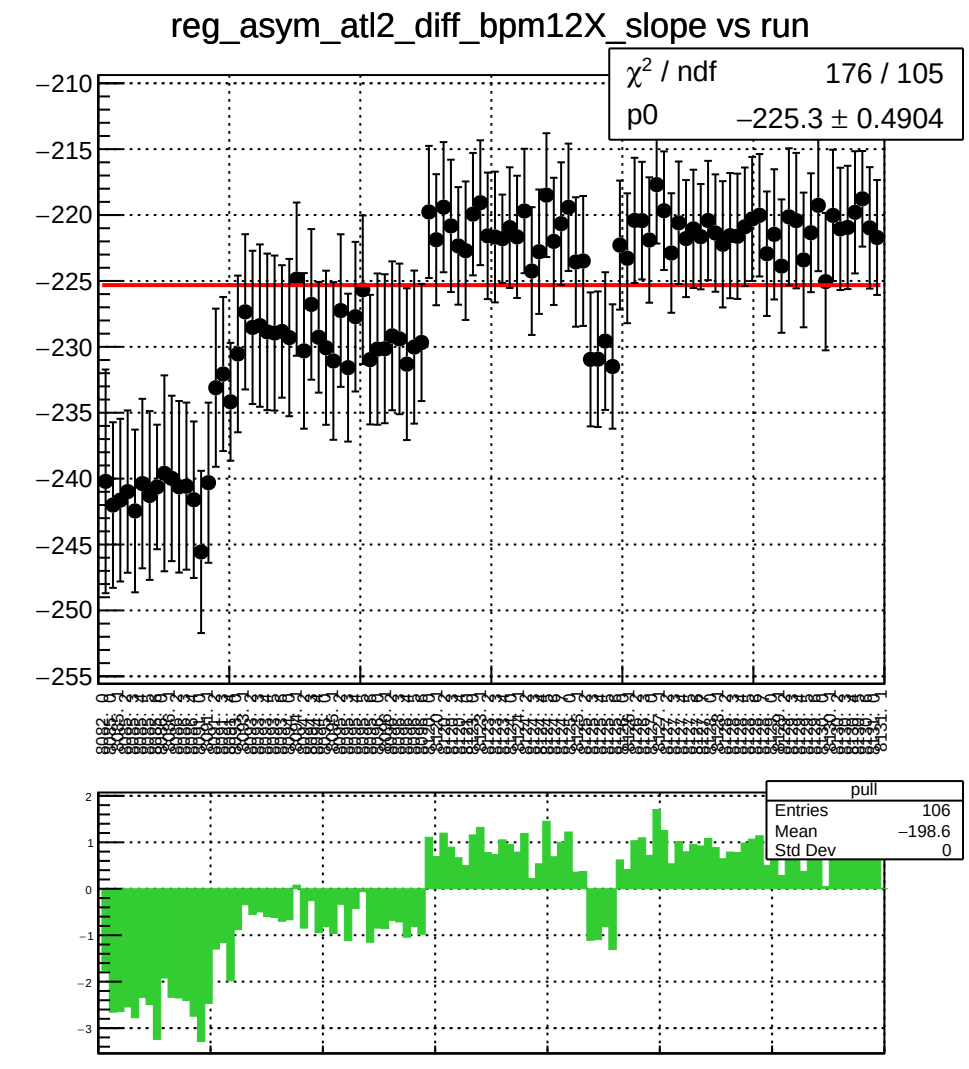

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 6.28 / 105
p0 83.36 ± 12.05
300
200
100
0
−100
−200
pull
Entries 106
Mean −102.9
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

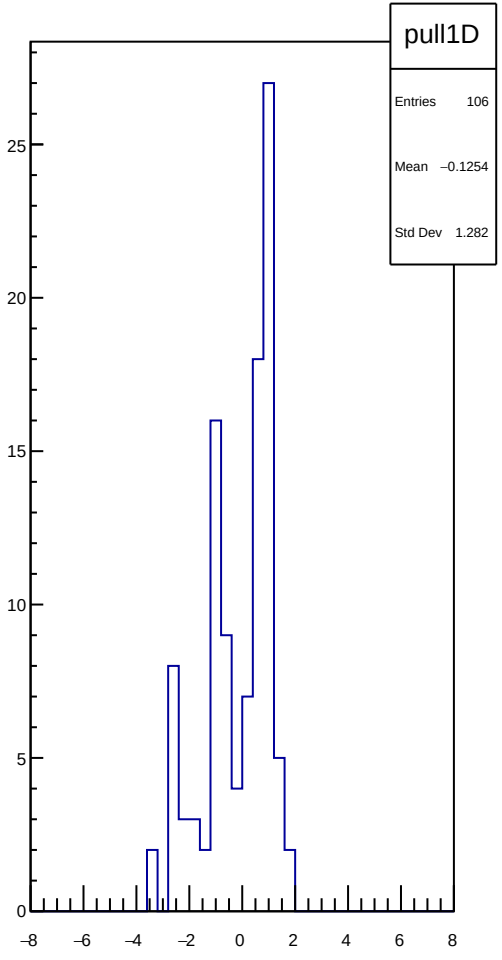

pull1D
Entries 106
Mean 0.006114
Std Dev 0.2433
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

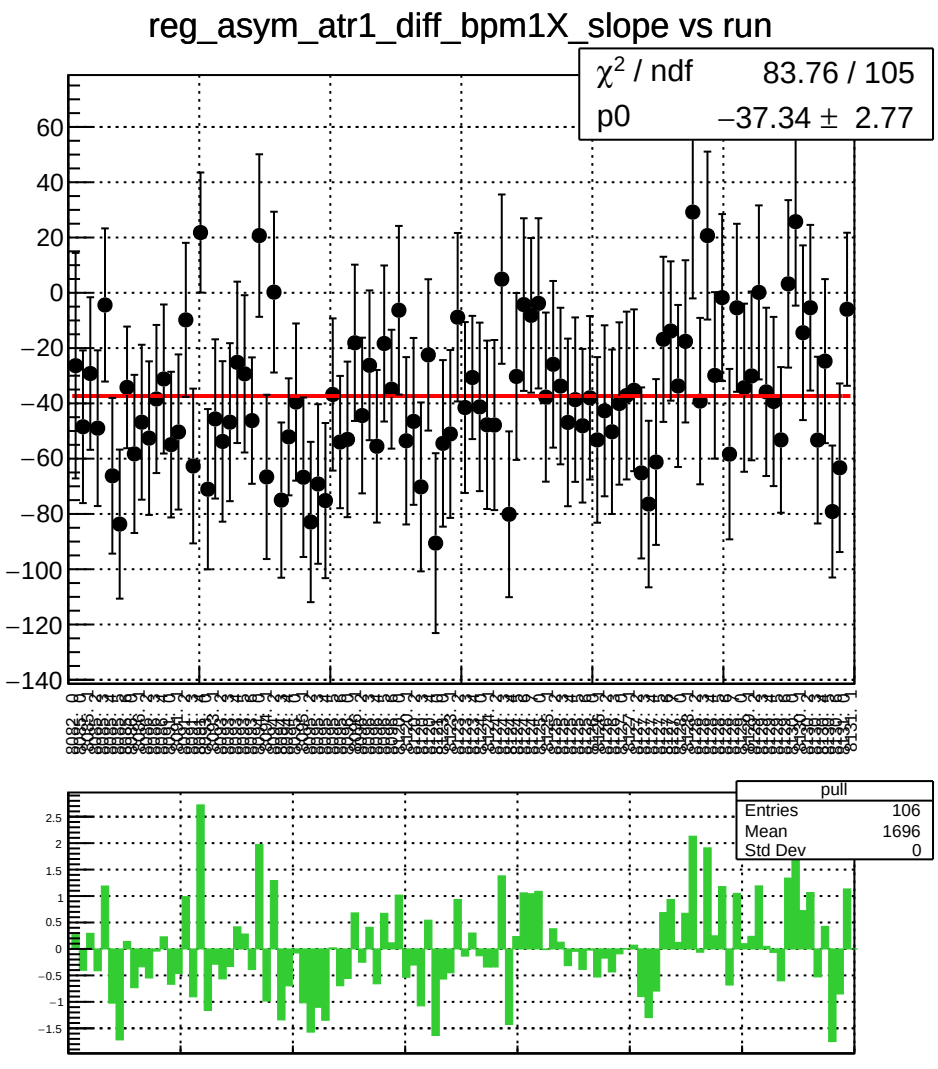

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 15.06 / 105
p0 254.4 ± 7.83
pull
Entries 106
Mean −425.8
Std Dev 0
pull1D
Entries 106
Mean 0.01509
Std Dev 0.3766

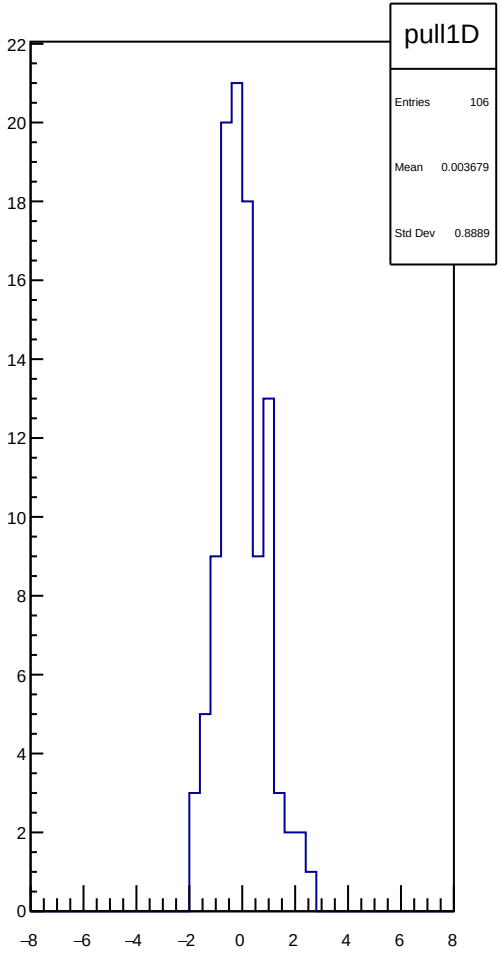

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 5.946 / 105
p0 15.32 ± 12.87
300
200
100
0
−100
−200
pull
Entries 106
Mean −8.255
Std Dev 86.9
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

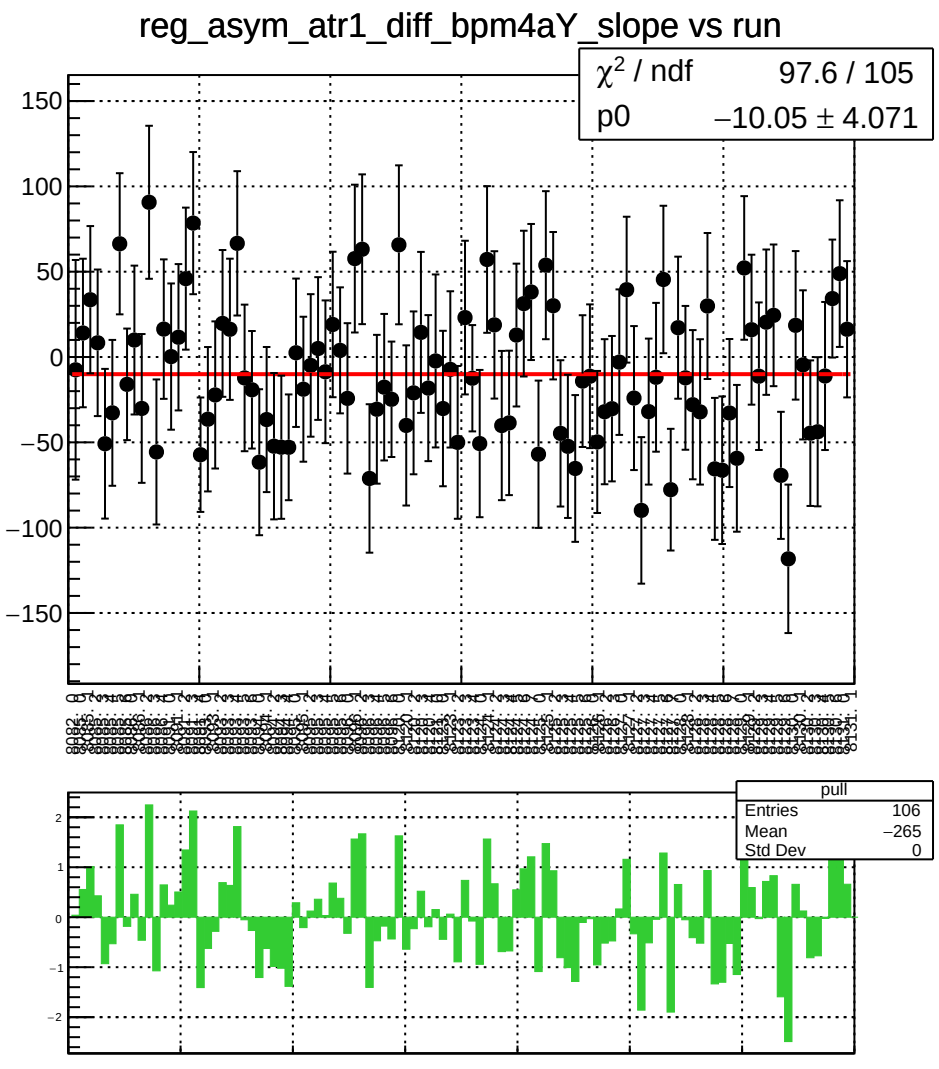

pull1D
Entries 106
Mean −0.003785
Std Dev 0.2368
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

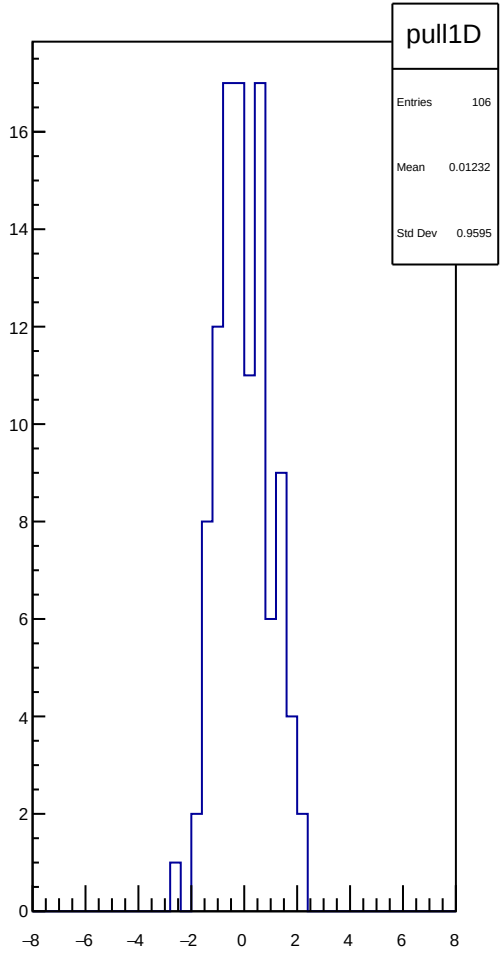

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 176 / 105
p0 −225.3 ± 0.4904
pull
Entries 106
Mean −198.6
Std Dev 0

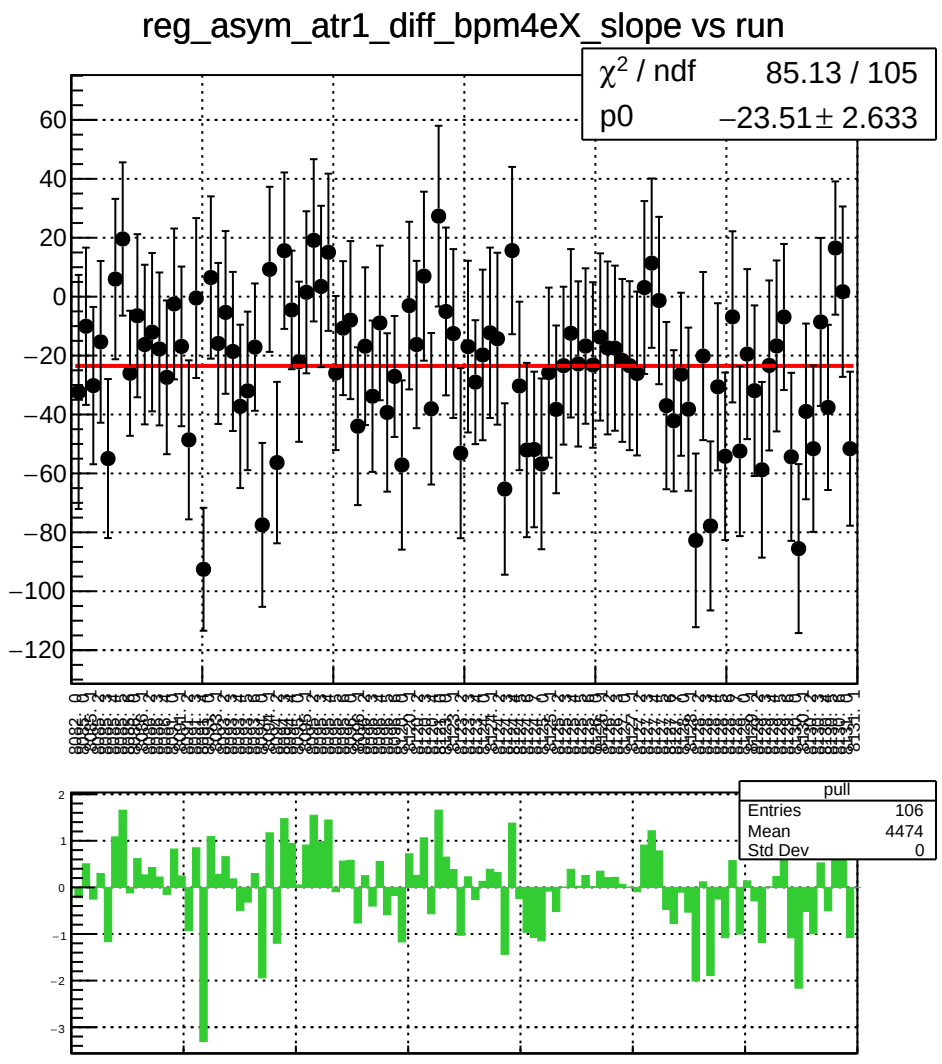

pull1D
Entries 106
Mean −0.1254
Std Dev 1.282

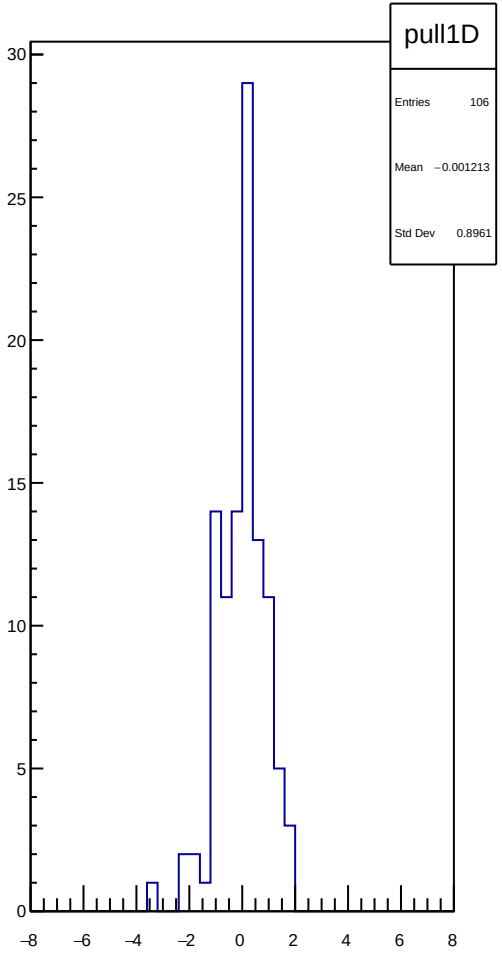

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 83.76 / 105
p0 −37.34 ± 2.77
pull
Entries 106
Mean 1696
Std Dev 0

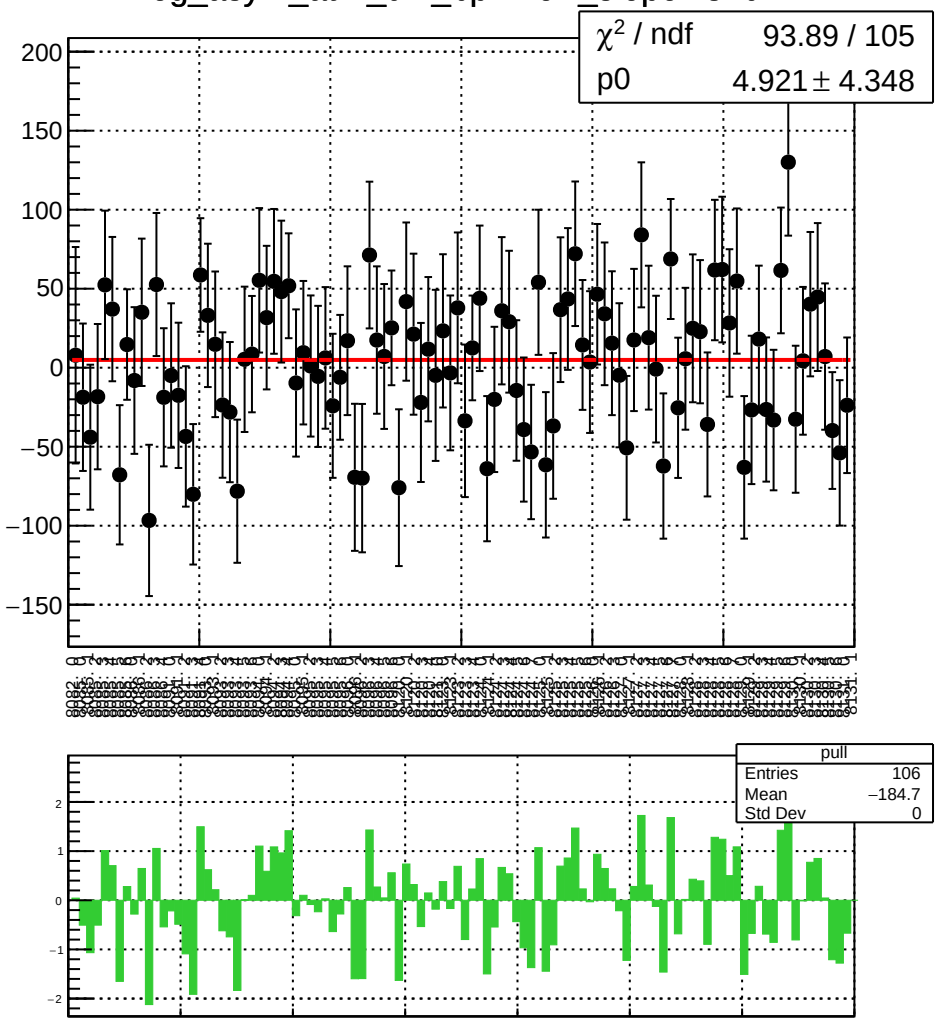

pull1D
Entries 106
Mean 0.003679
Std Dev 0.8889

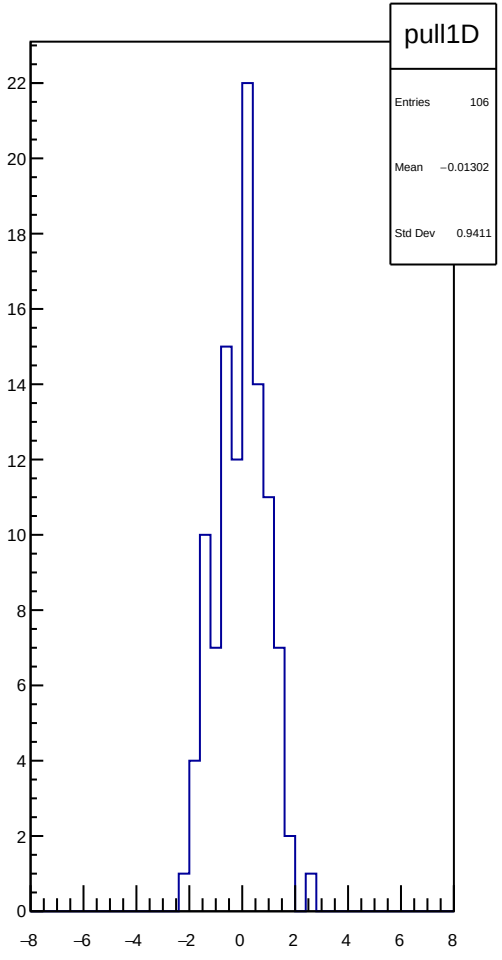

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 97.6 / 105
p0 −10.05 ± 4.071
150
100
50
0
−50
−100
−150
pull
Entries 106
Mean −265
Std Dev 0
2
1
0
−1
−2

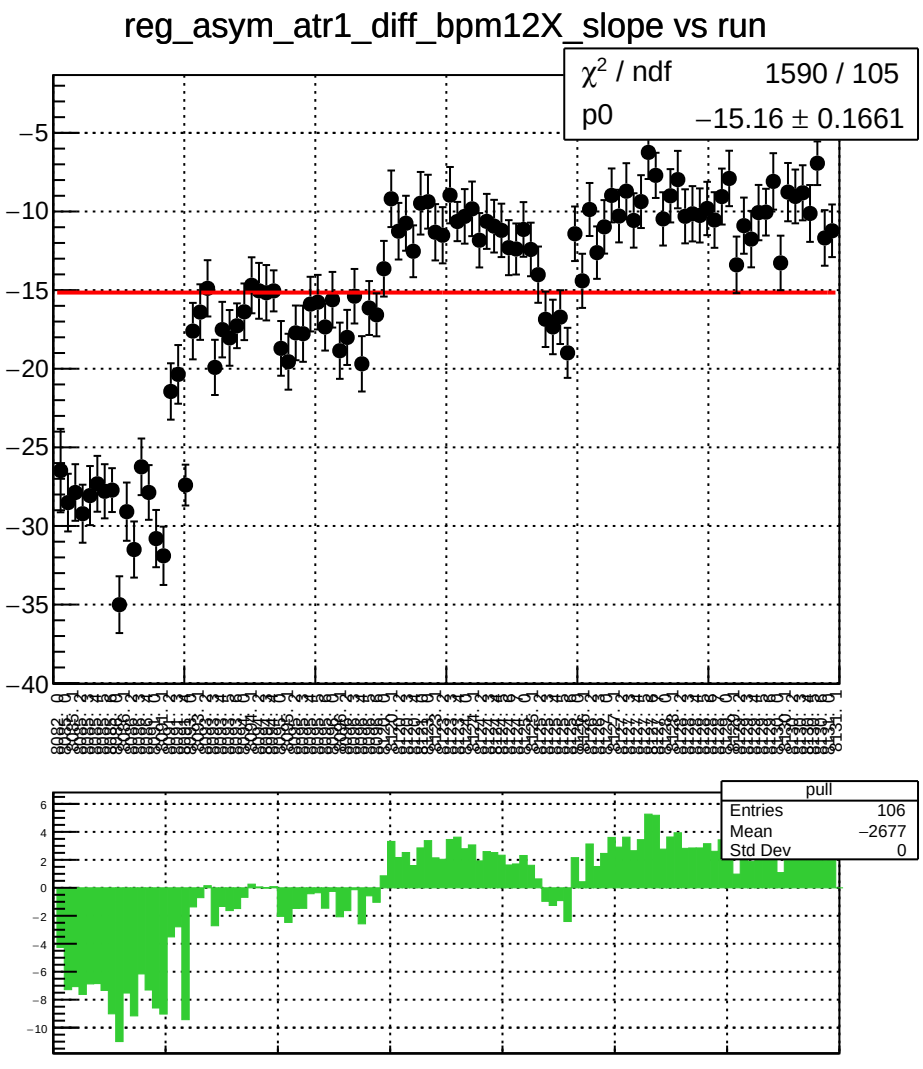

pull1D
Entries 106
Mean 0.01232
Std Dev 0.9595
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

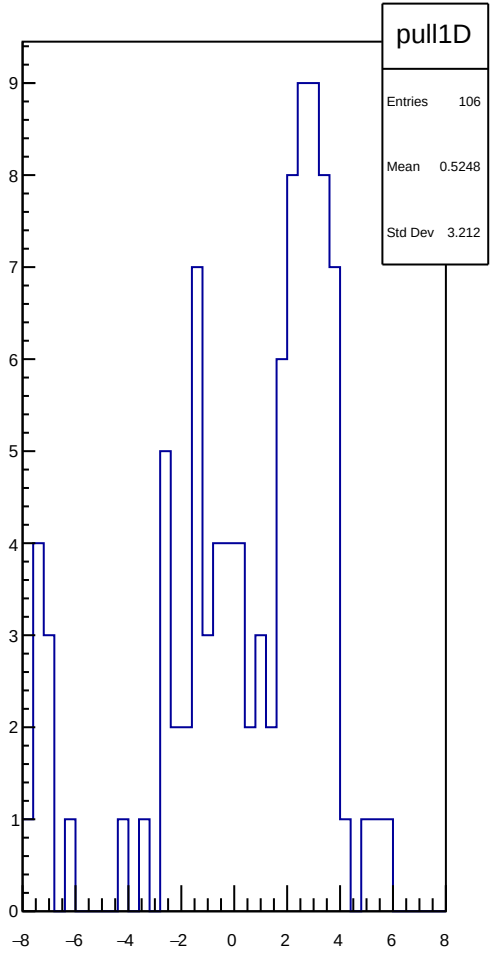

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 85.13 / 105
p0 −23.51 ± 2.633
pull
Entries 106
Mean 4474
Std Dev 0

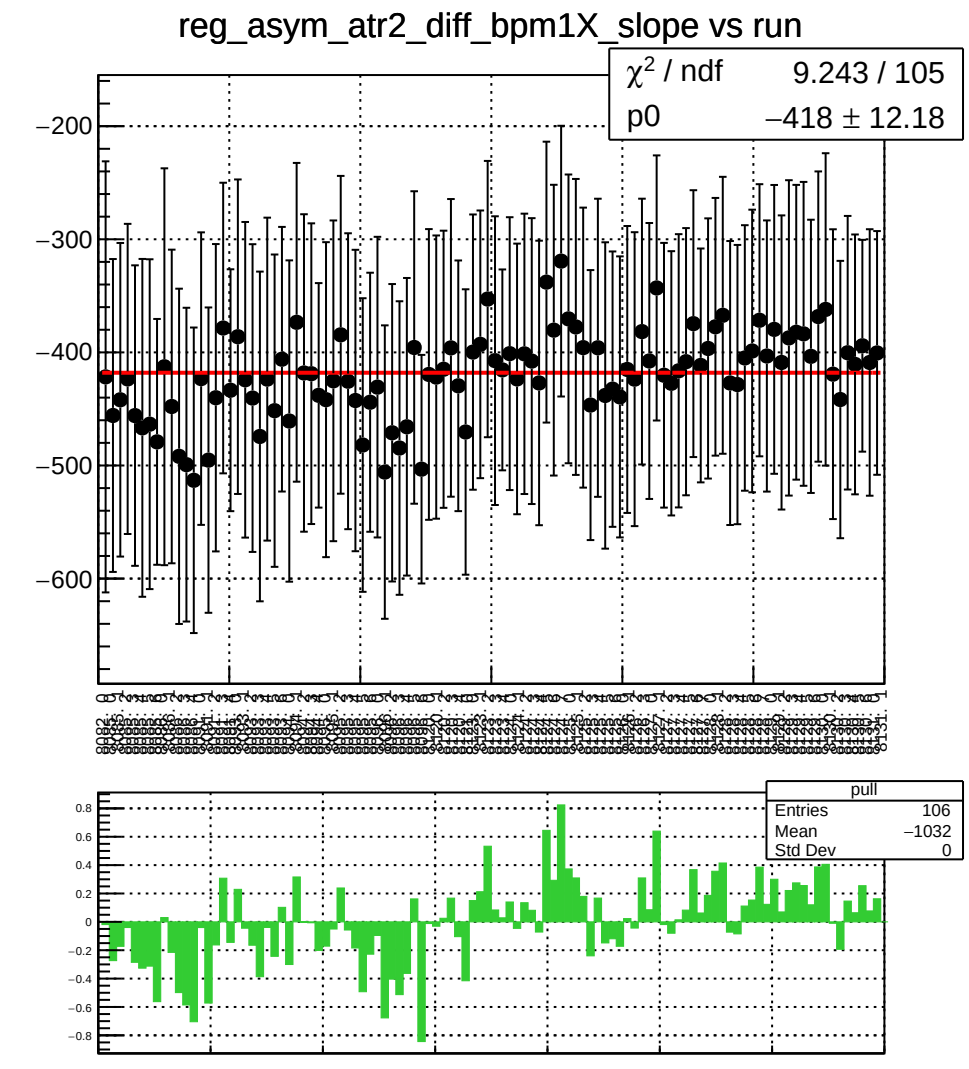

pull1D
Entries 106
Mean −0.001213
Std Dev 0.8961

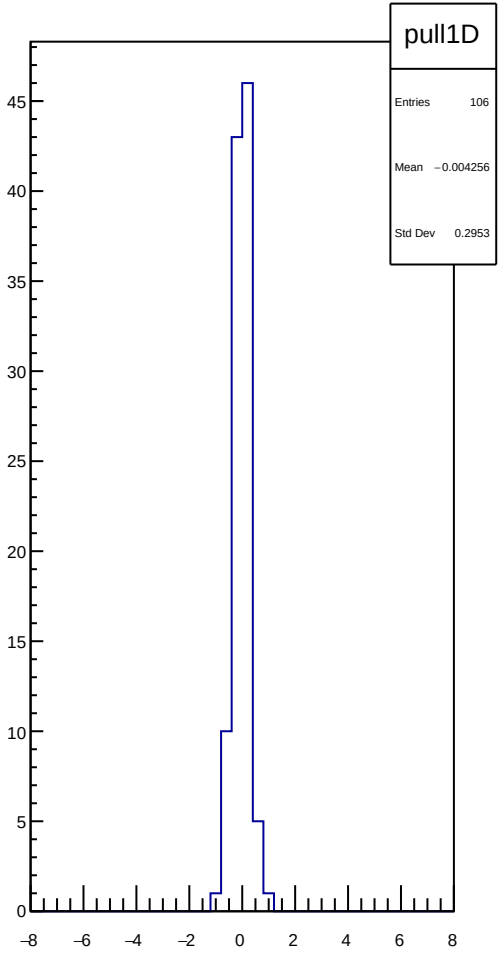

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 93.89 / 105
p0 4.921 ± 4.348
pull
Entries 106
Mean −184.7
Std Dev 0

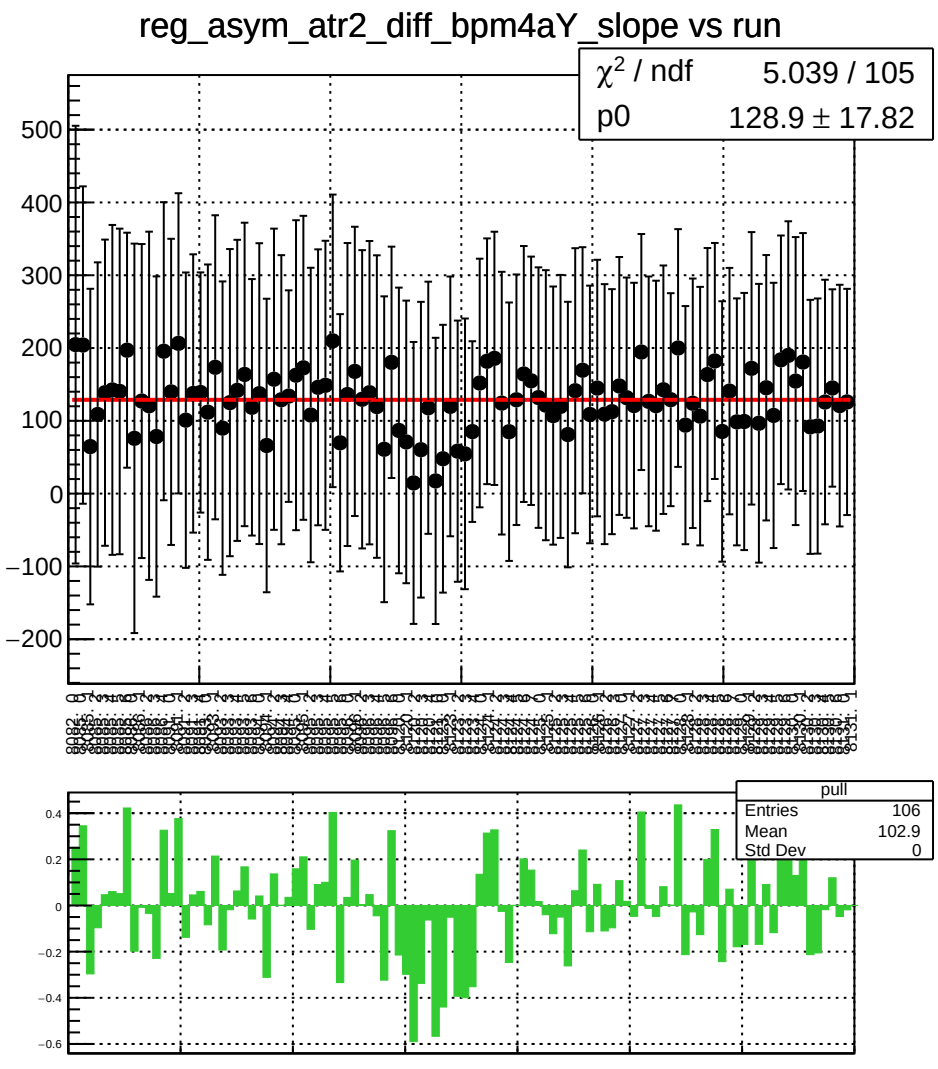

pull1D
Entries 106
Mean −0.01302
Std Dev 0.9411

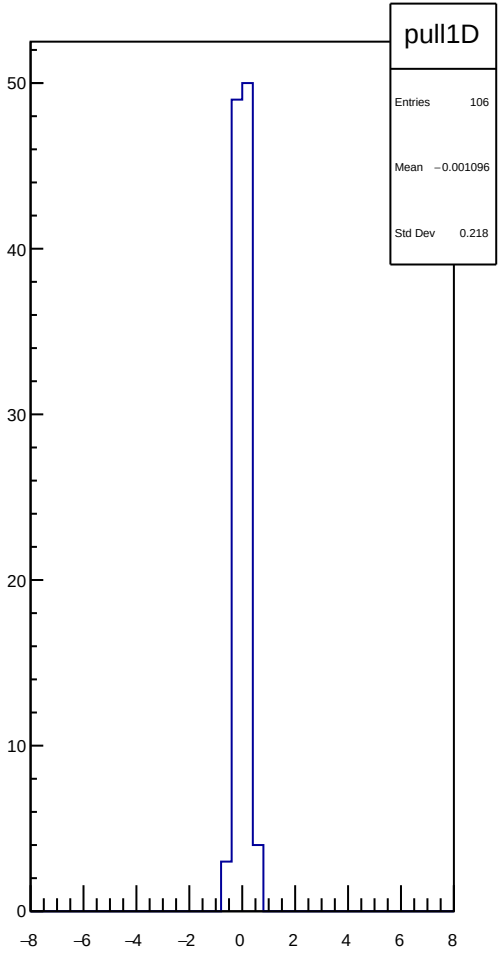

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 1590 / 105
p0 −15.16 ± 0.1661
pull
Entries 106
Mean −2677
Std Dev 0

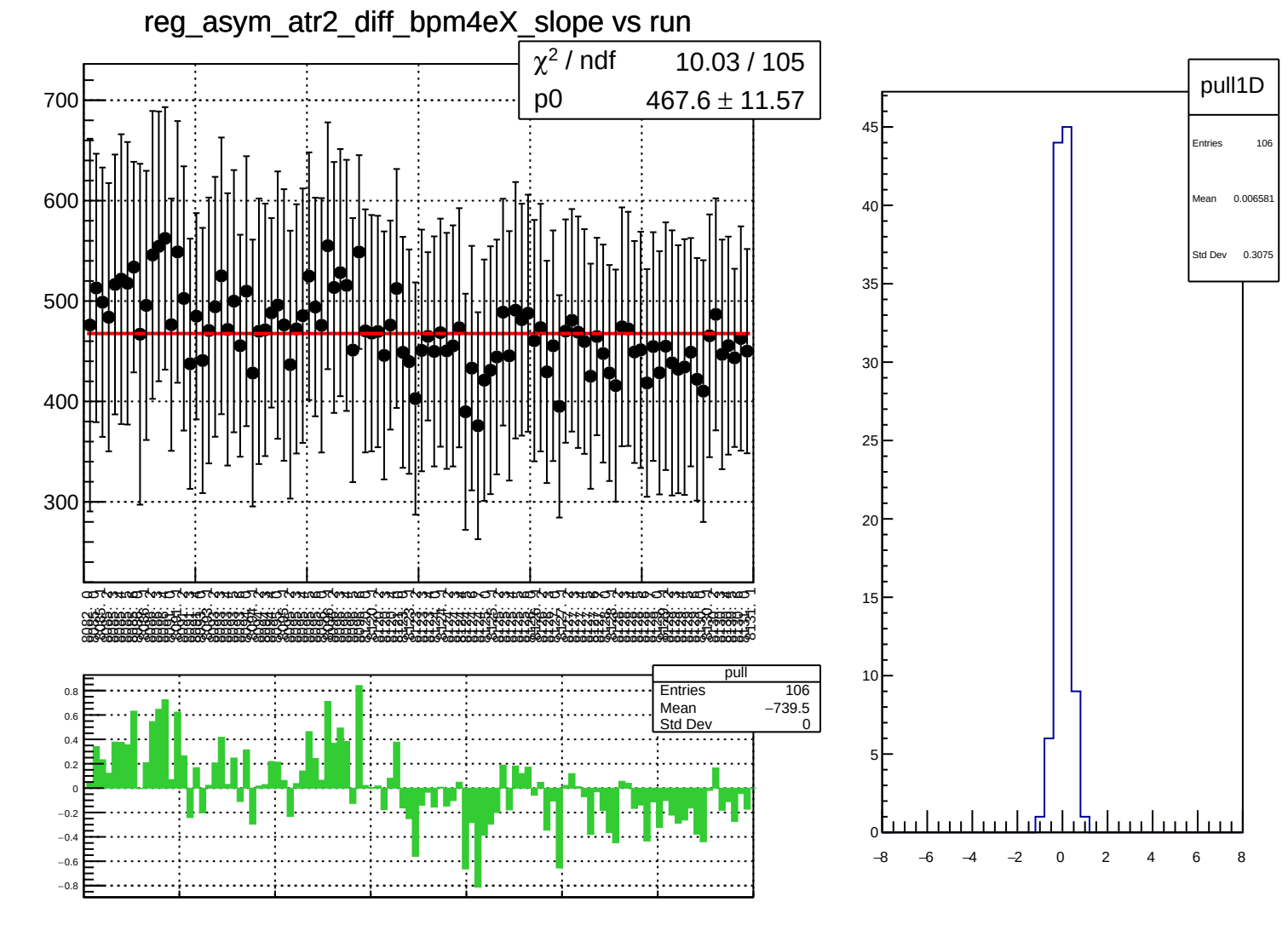

pull1D
Entries 106
Mean 0.5248
Std Dev 3.212

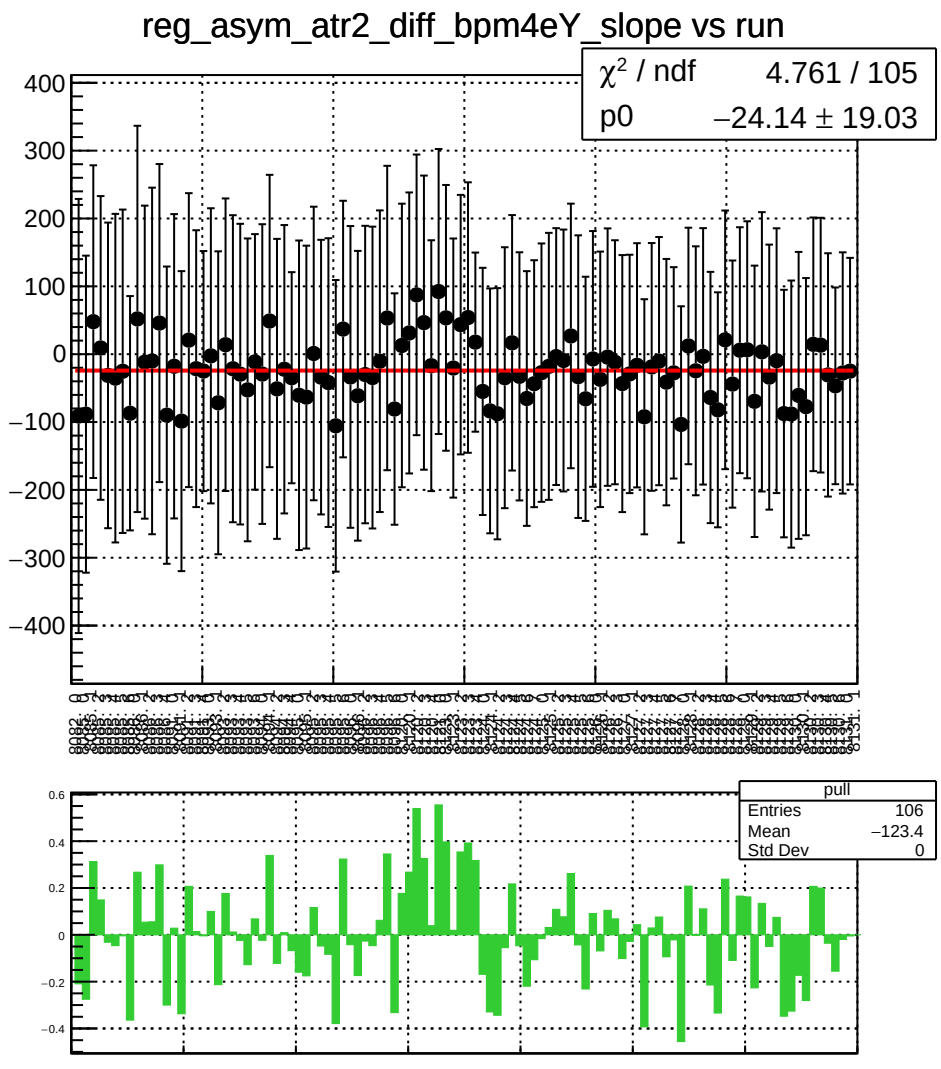

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 9.243 / 105
p0 −418 ± 12.18
−200
−300
−400
−500
−600
pull
Entries 106
Mean −1032
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

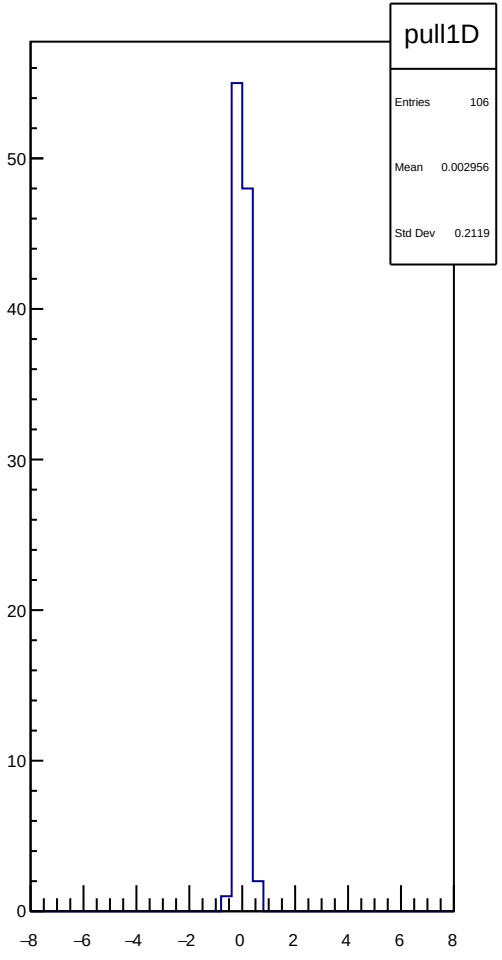

pull1D
Entries 106
Mean −0.004256
Std Dev 0.2953
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

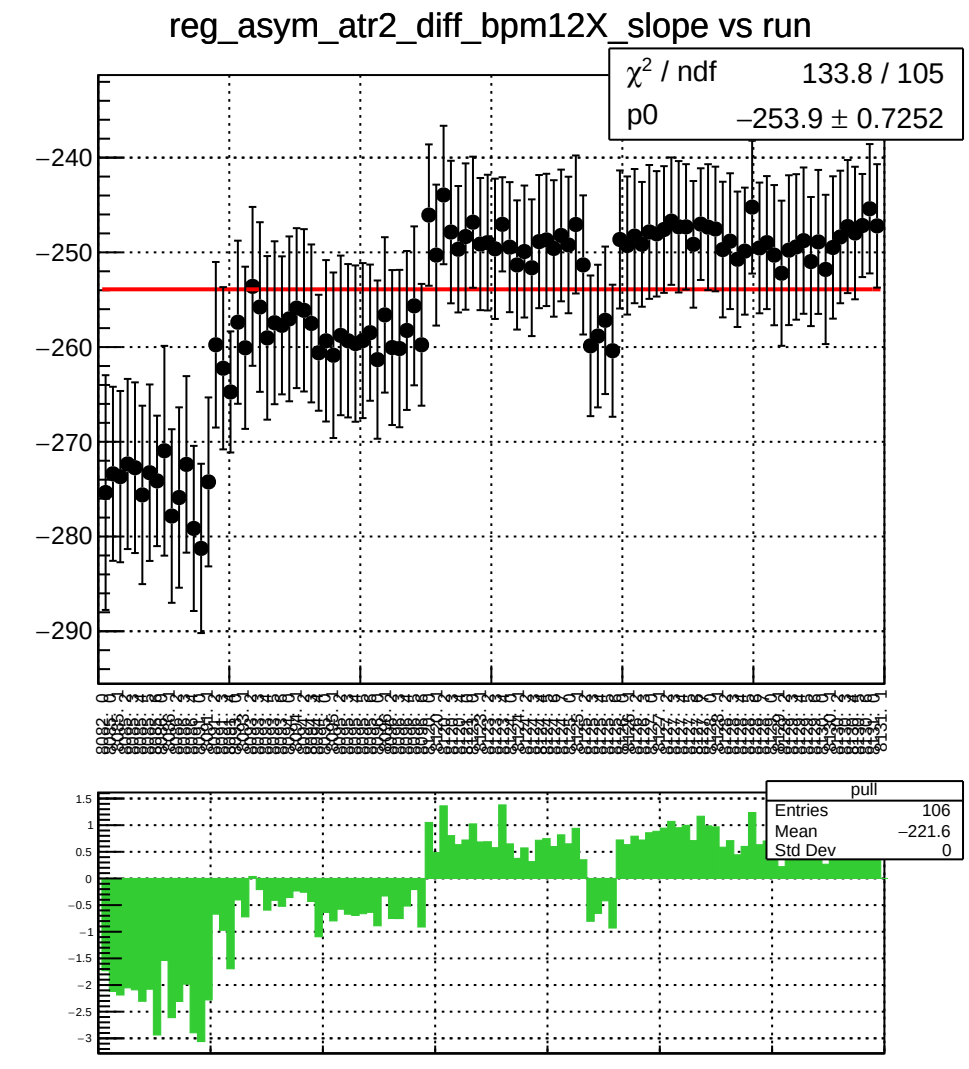

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 5.039 / 105
p0 128.9 ± 17.82
pull
Entries 106
Mean 102.9
Std Dev 0

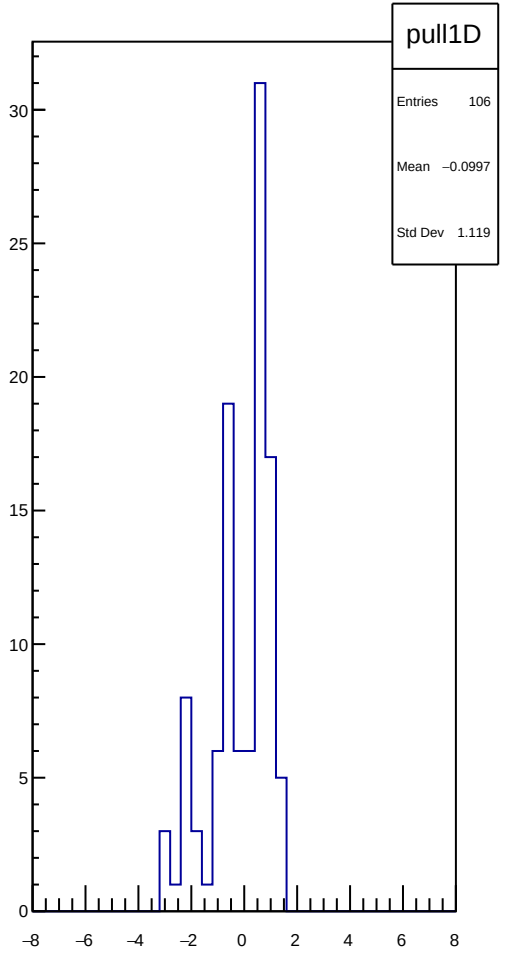

pull1D
Entries 106
Mean −0.001096
Std Dev 0.218

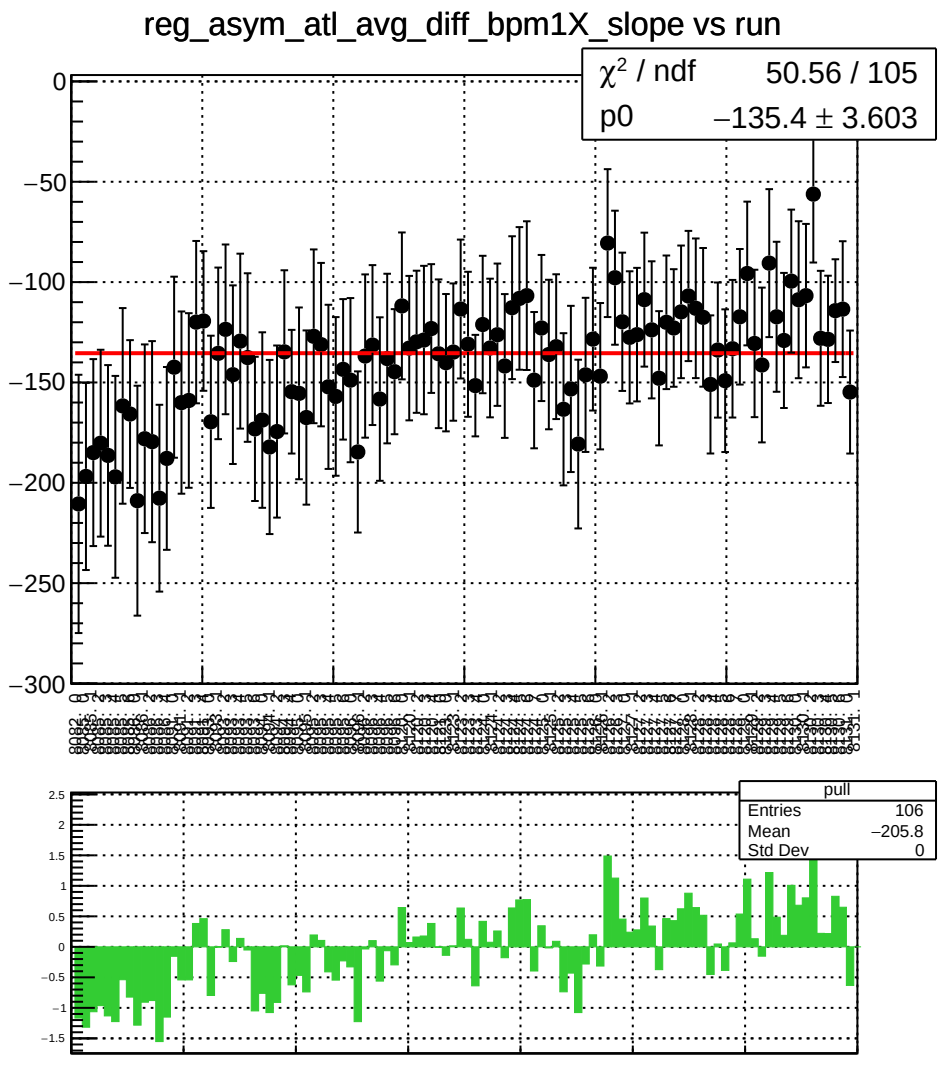

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 10.03 / 105
p0 467.6 ± 11.57
700
600
500
400
300
pull
Entries 106
Mean −739.5
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 106
Mean 0.006581
Std Dev 0.3075
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

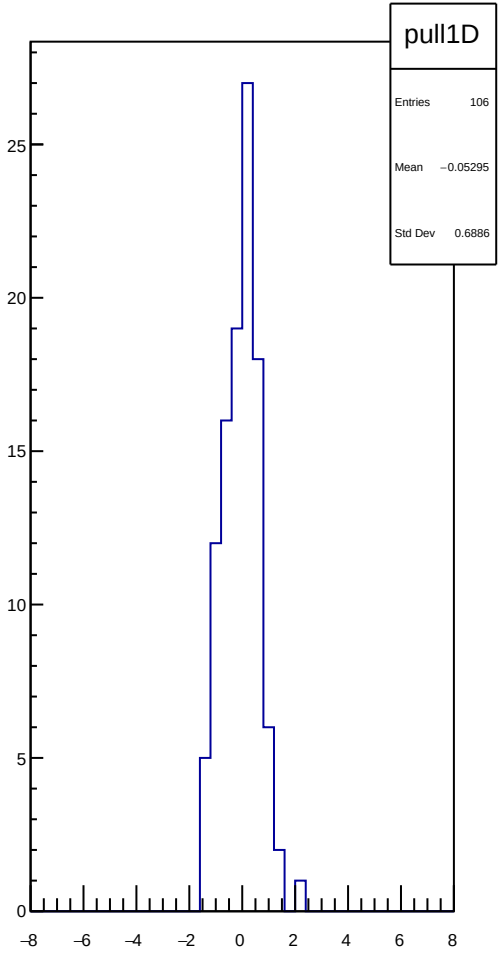

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 4.761 / 105
p0 −24.14 ± 19.03
pull
Entries 106
Mean −123.4
Std Dev 0

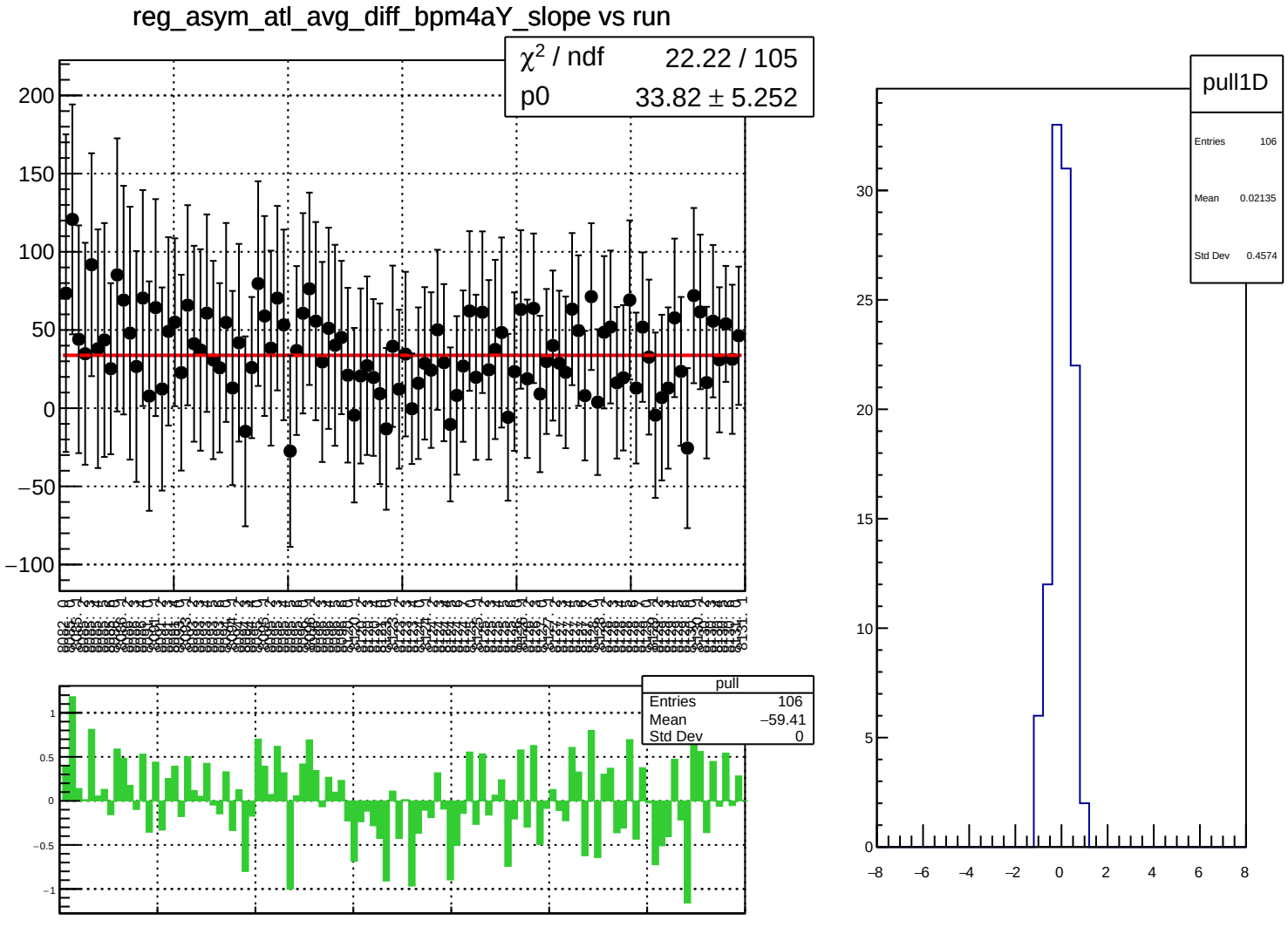

pull1D
Entries 106
Mean 0.002956
Std Dev 0.2119

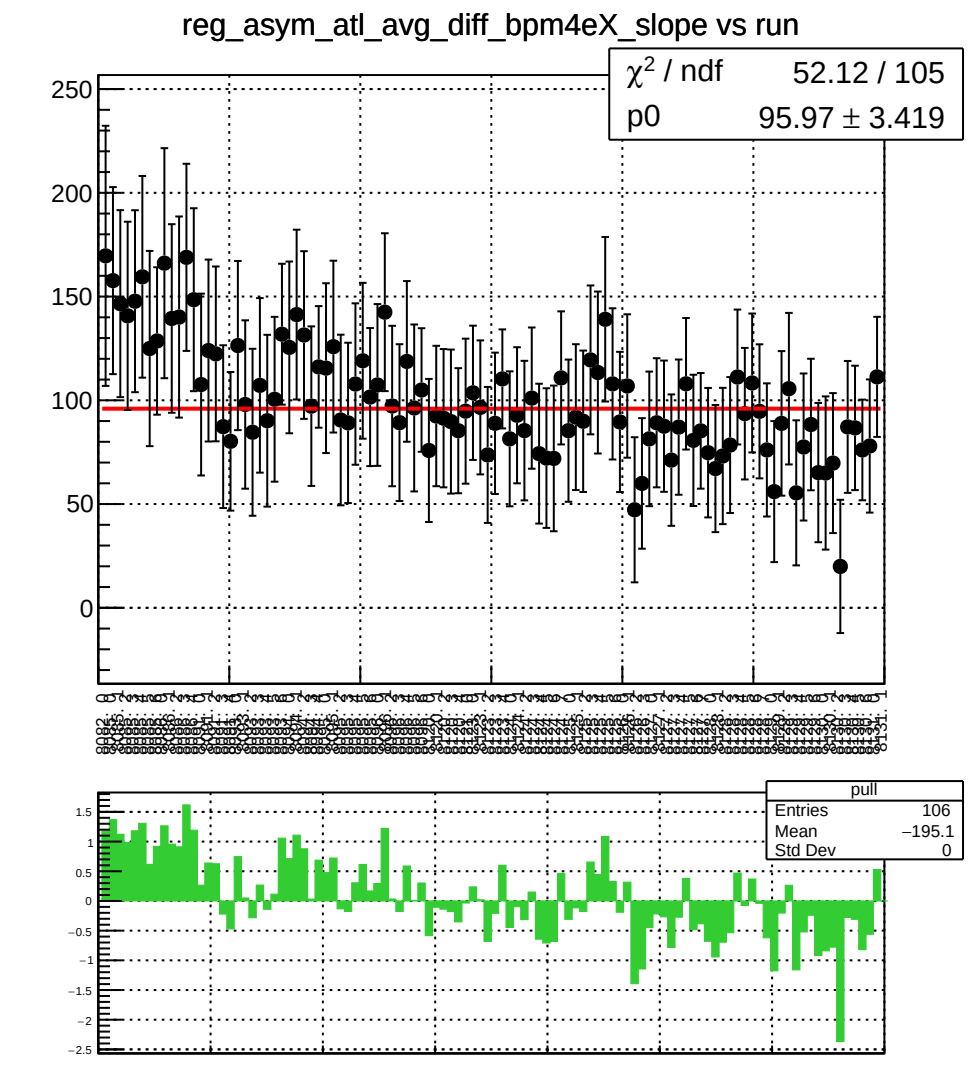

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 133.8 / 105
p0 −253.9 ± 0.7252
−240
−250
−260
−270
−280
−290
pull
Entries 106
Mean −221.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

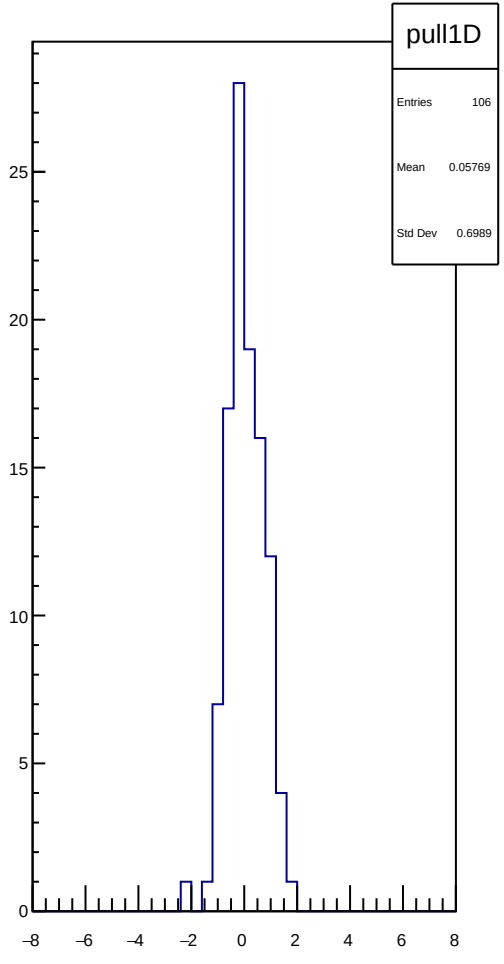

pull1D
Entries 106
Mean −0.0997
Std Dev 1.119
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

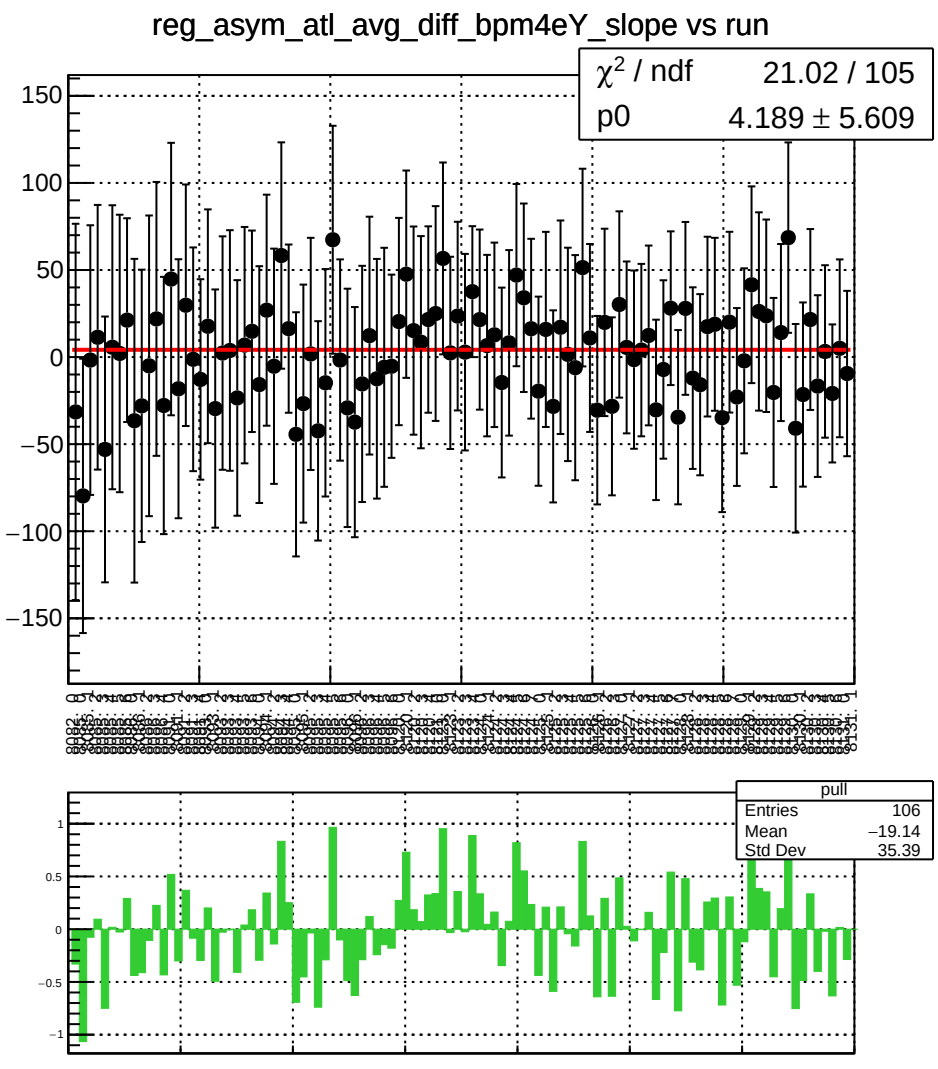

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 50.56 / 105
p0 −135.4 ± 3.603
pull
Entries 106
Mean −205.8
Std Dev 0

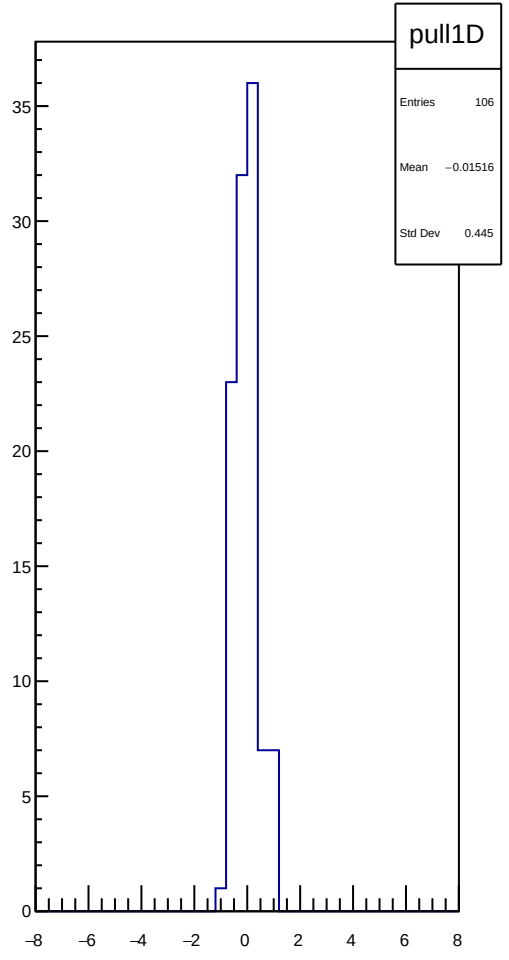

pull1D
Entries 106
Mean −0.05295
Std Dev 0.6886

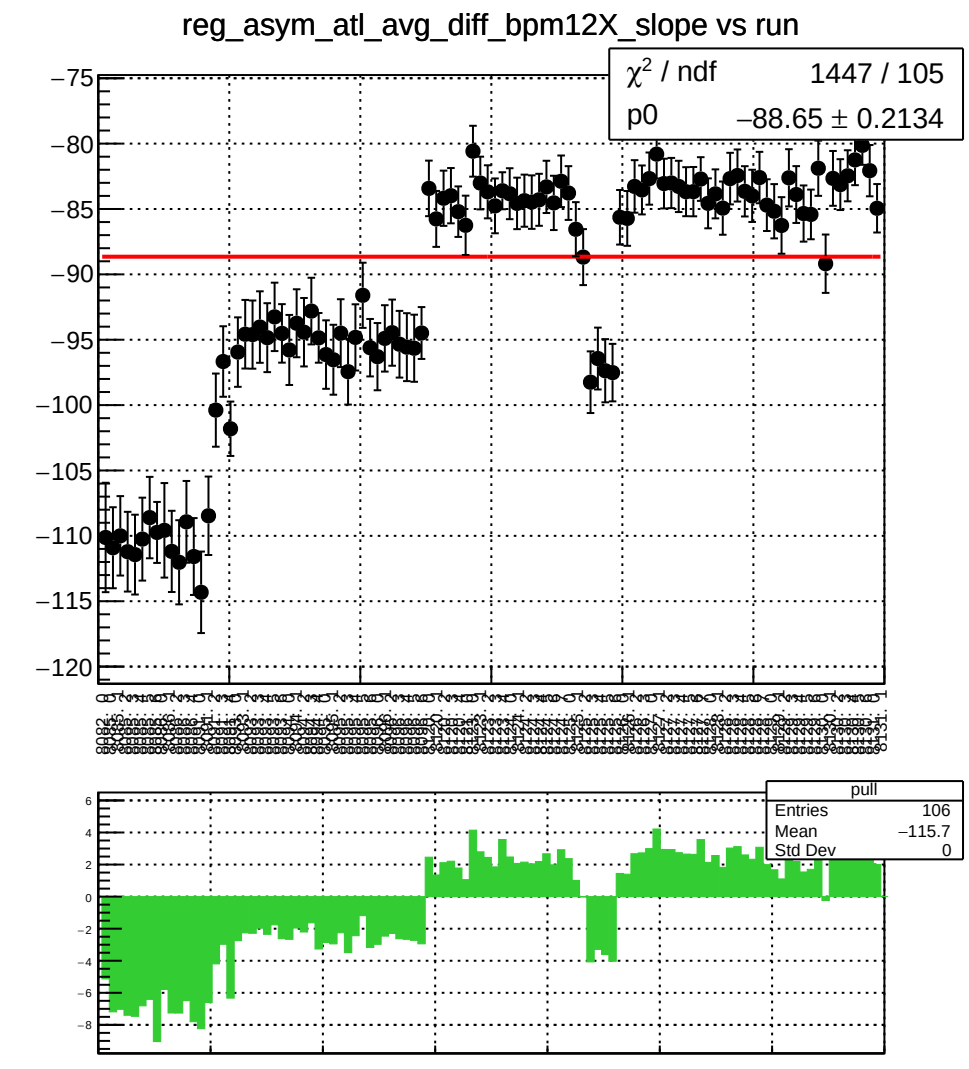

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 22.22 / 105
p0 33.82 ± 5.252
200
150
100
50
0
−50
−100
pull
Entries 106
Mean −59.41
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 106
Mean 0.02135
Std Dev 0.4574
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

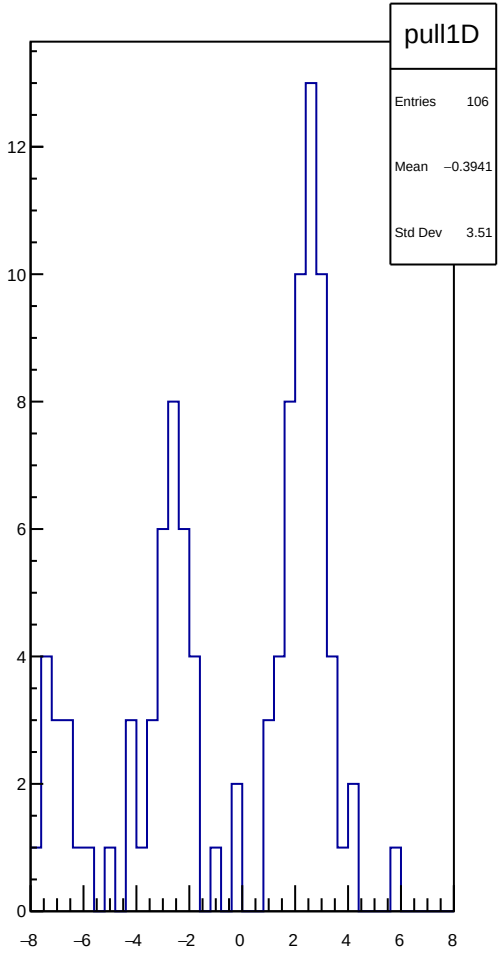

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 52.12 / 105
p0 95.97 ± 3.419
250
200
150
100
50
0
pull
Entries 106
Mean −195.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

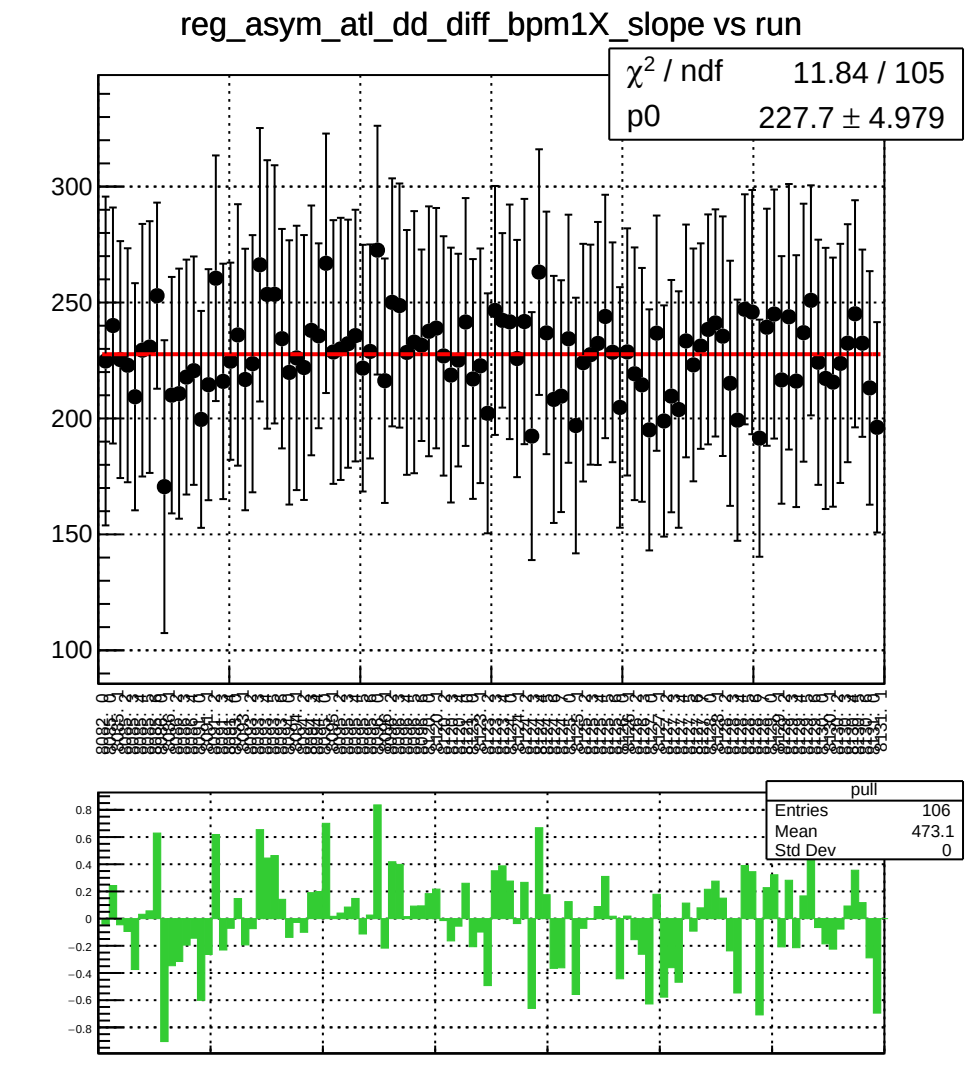

pull1D
Entries 106
Mean 0.05769
Std Dev 0.6989
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

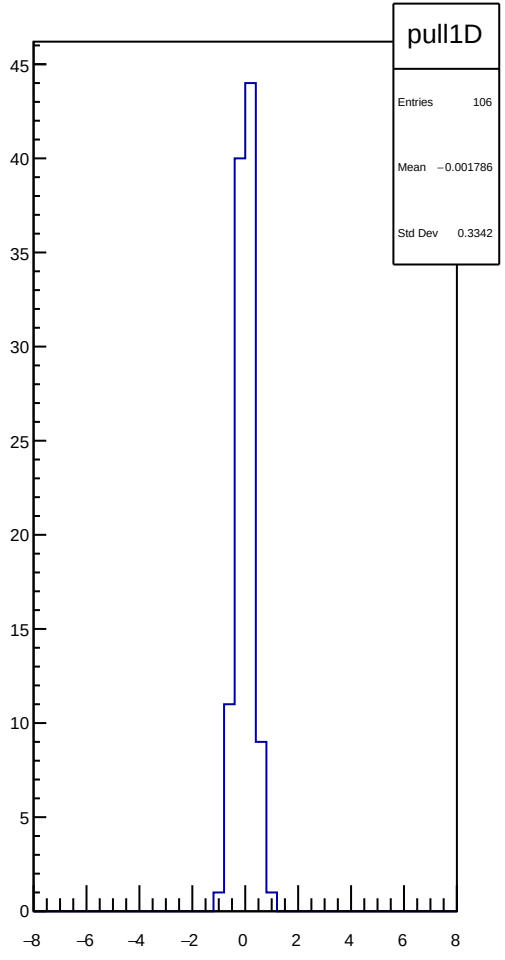

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 21.02 / 105
p0 4.189 ± 5.609
150
100
50
0
−50
−100
−150
pull
Entries 106
Mean −19.14
Std Dev 35.39
1
0.5
0
−0.5
−1

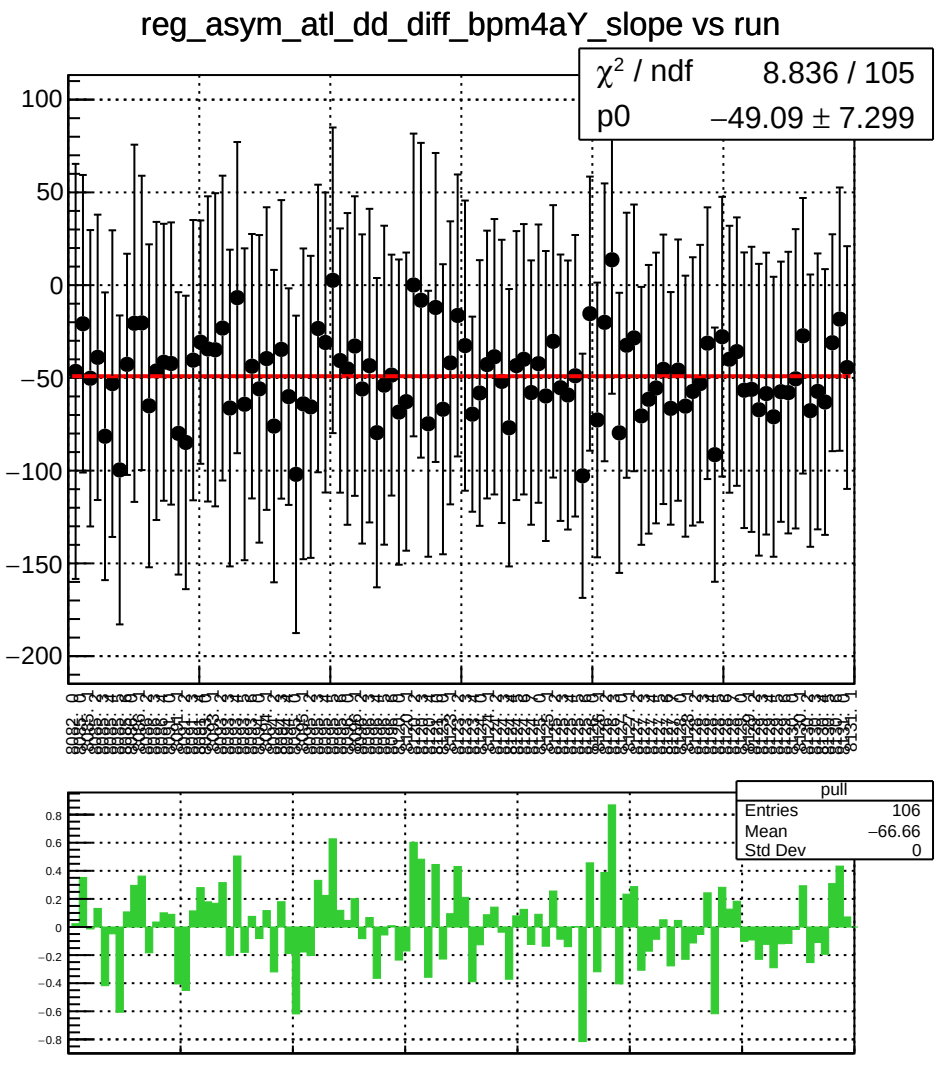

pull1D
Entries 106
Mean −0.01516
Std Dev 0.445
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

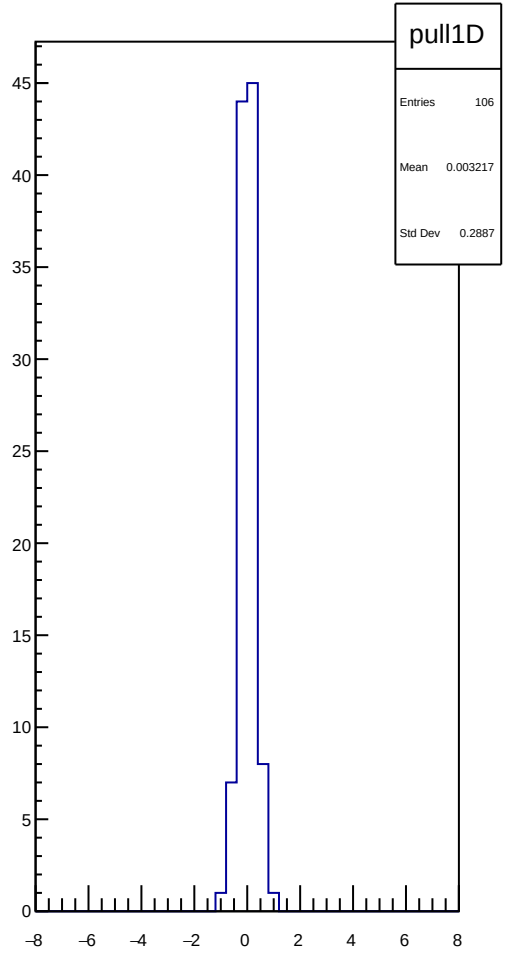

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 1447 / 105
p0 −88.65 ± 0.2134
pull
Entries 106
Mean −115.7
Std Dev 0

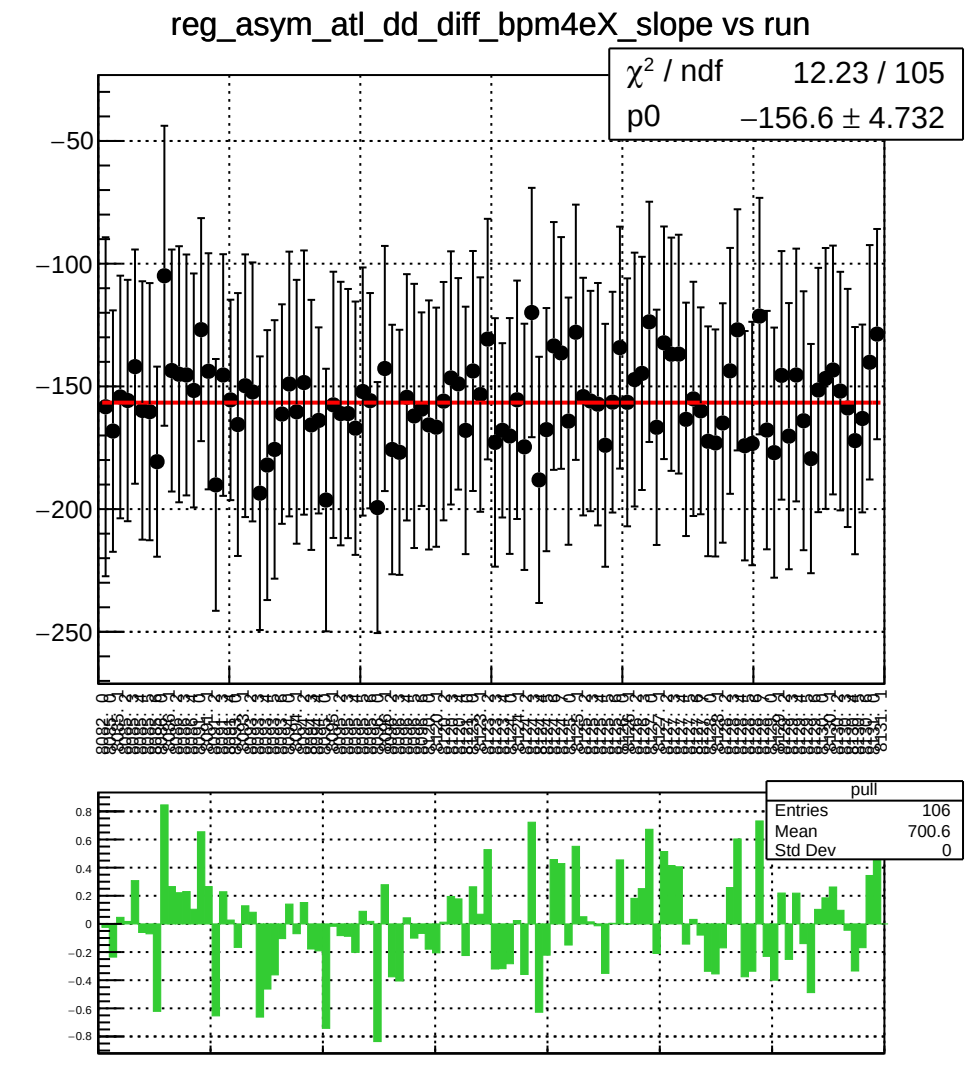

pull1D
Entries 106
Mean −0.3941
Std Dev 3.51

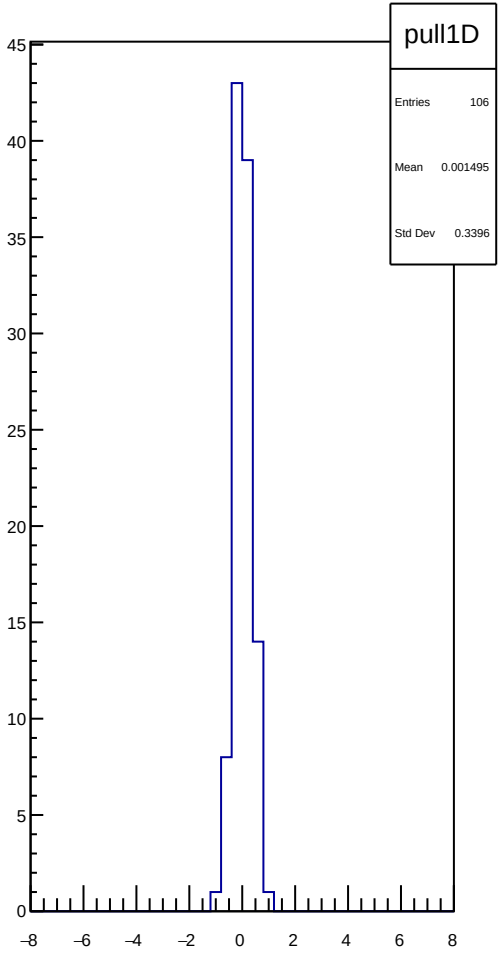

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 11.84 / 105
p0 227.7 ± 4.979
300
250
200
150
100
pull
Entries 106
Mean 473.1
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

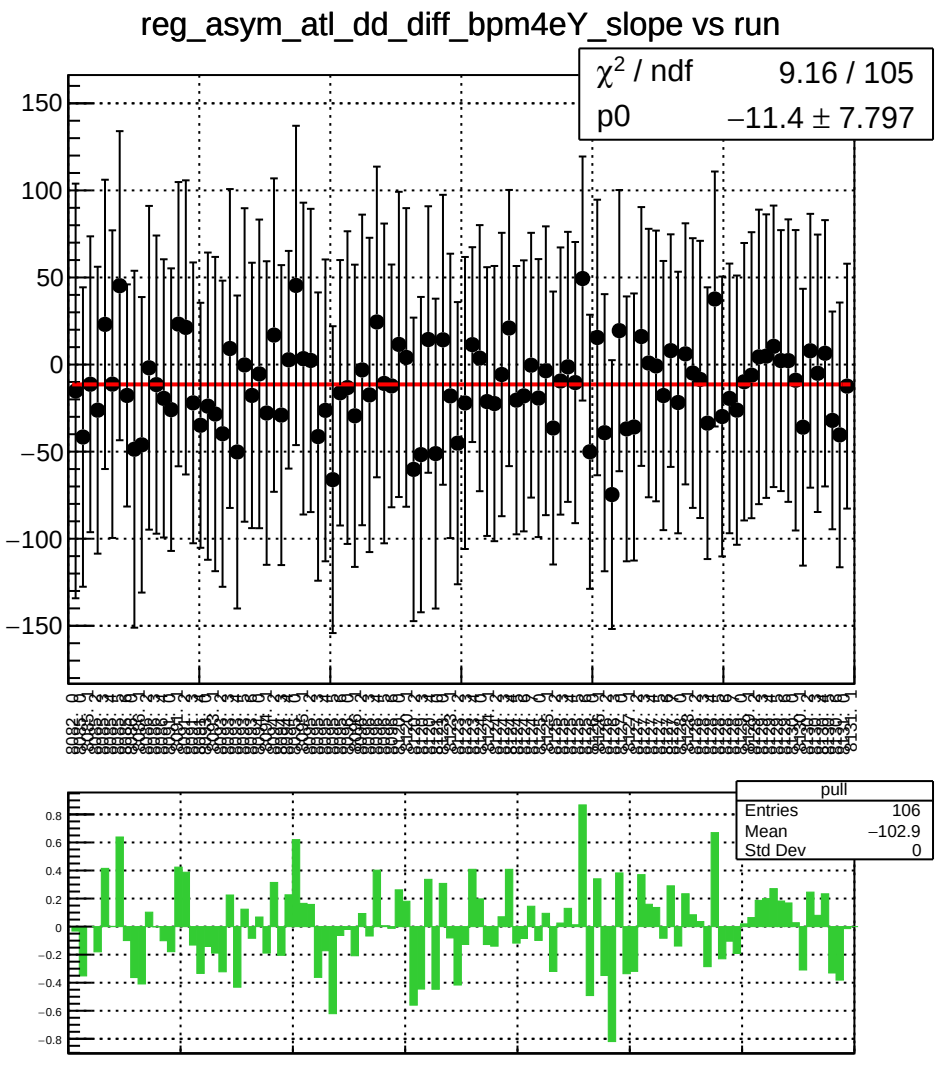

pull1D
Entries 106
Mean −0.001786
Std Dev 0.3342
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

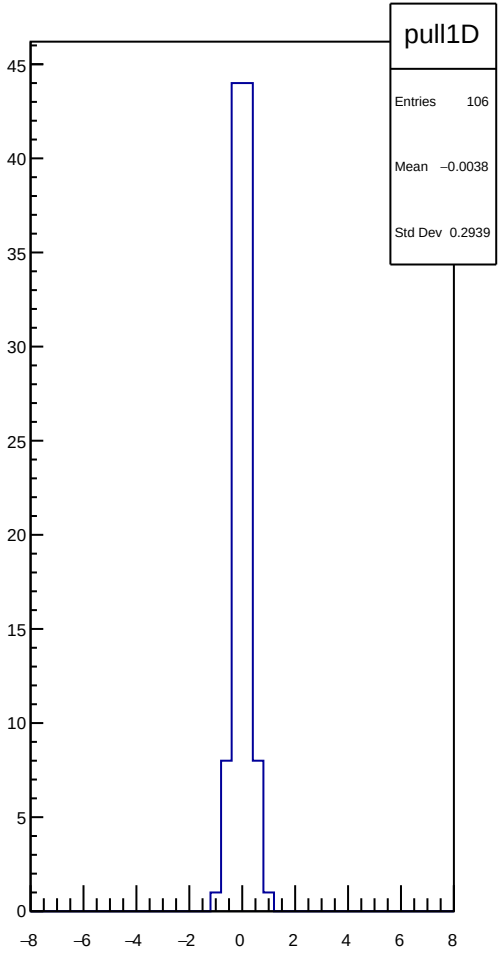

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.836 / 105
p0 −49.09 ± 7.299
100
50
0
−50
−100
−150
−200
pull
Entries 106
Mean −66.66
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

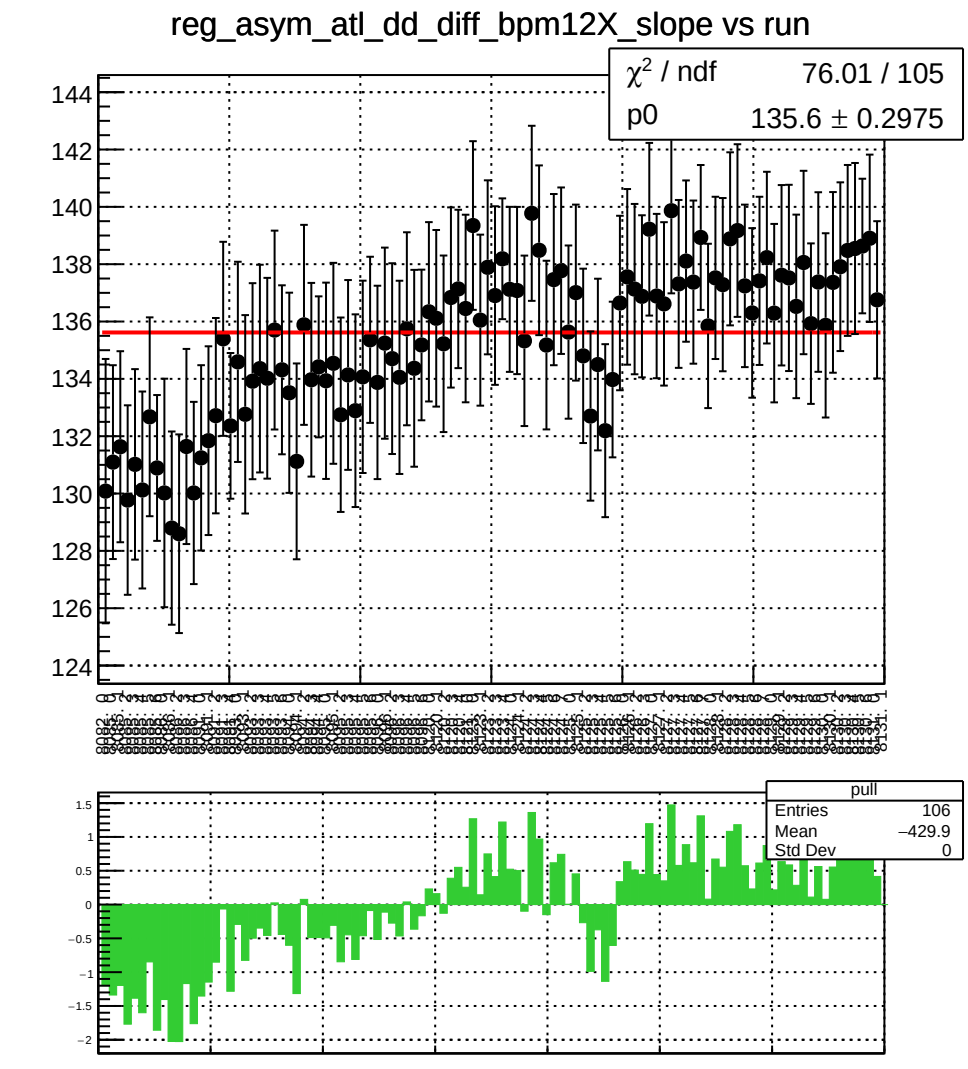

pull1D
Entries 106
Mean 0.003217
Std Dev 0.2887
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

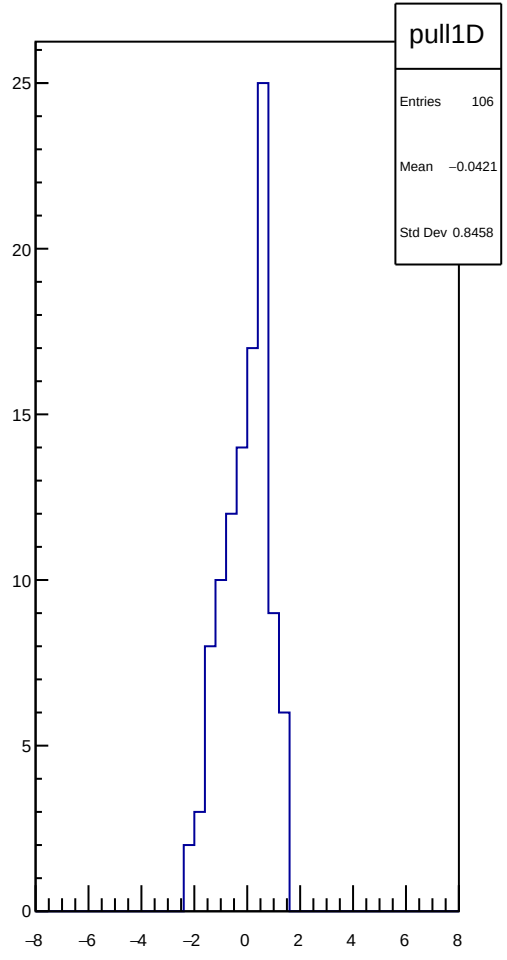

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 12.23 / 105
p0 −156.6 ± 4.732
−50
−100
−150
−200
−250
pull
Entries 106
Mean 700.6
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

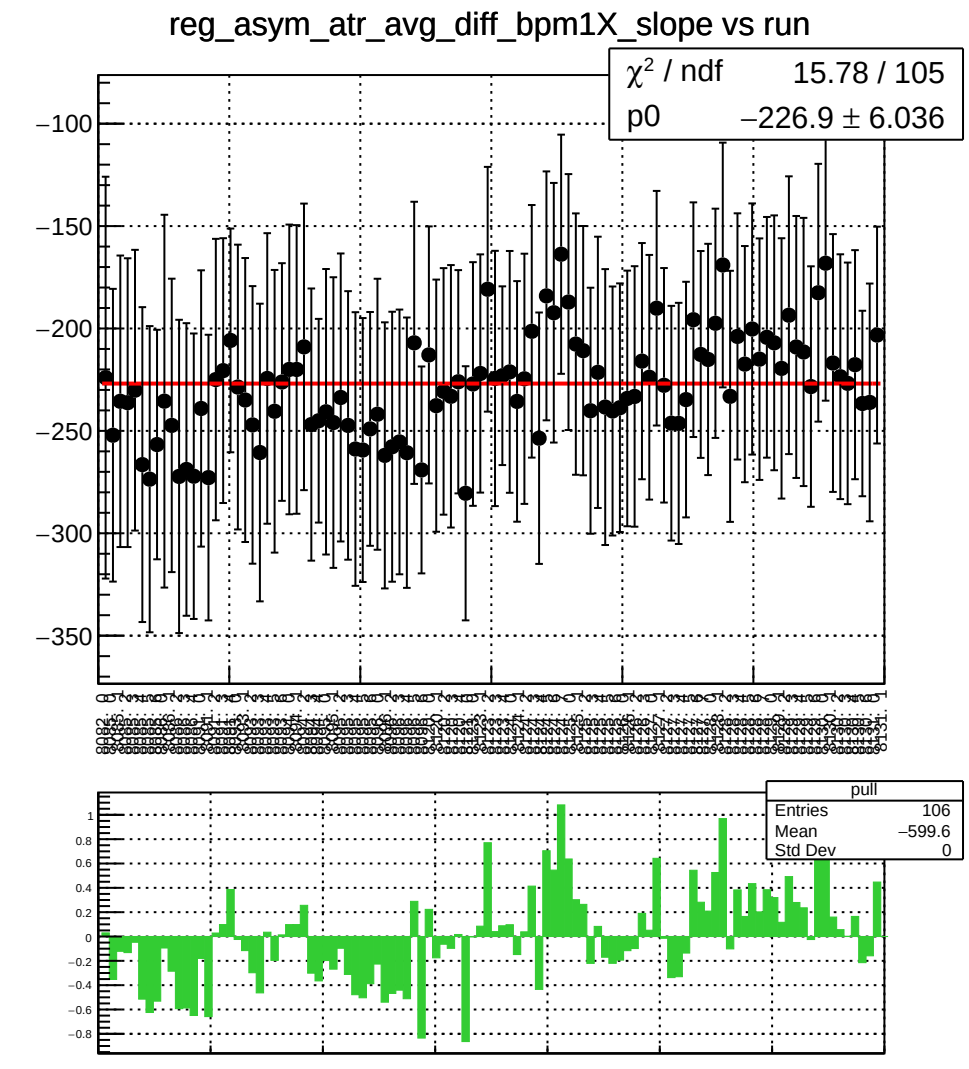

pull1D
Entries 106
Mean 0.001495
Std Dev 0.3396
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

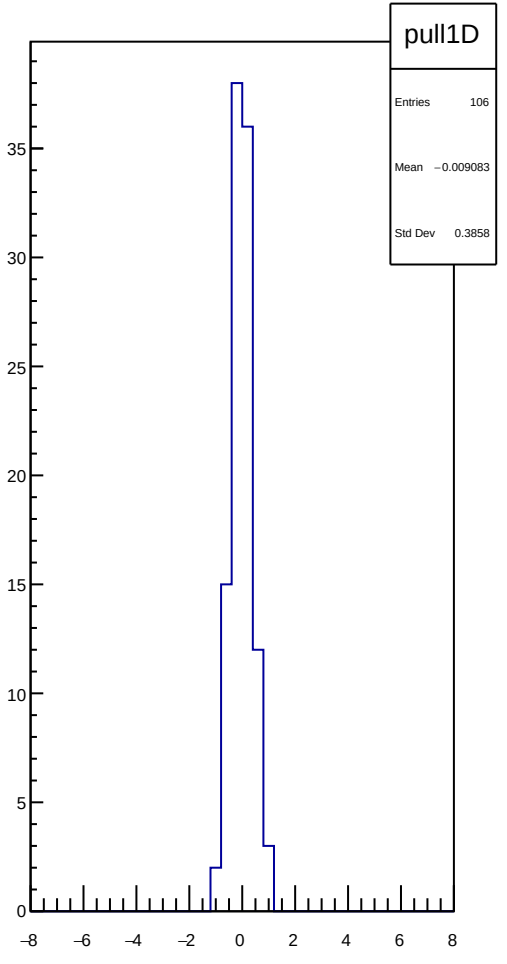

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.16 / 105
p0 −11.4 ± 7.797
150
100
50
0
−50
−100
−150
pull
Entries 106
Mean −102.9
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

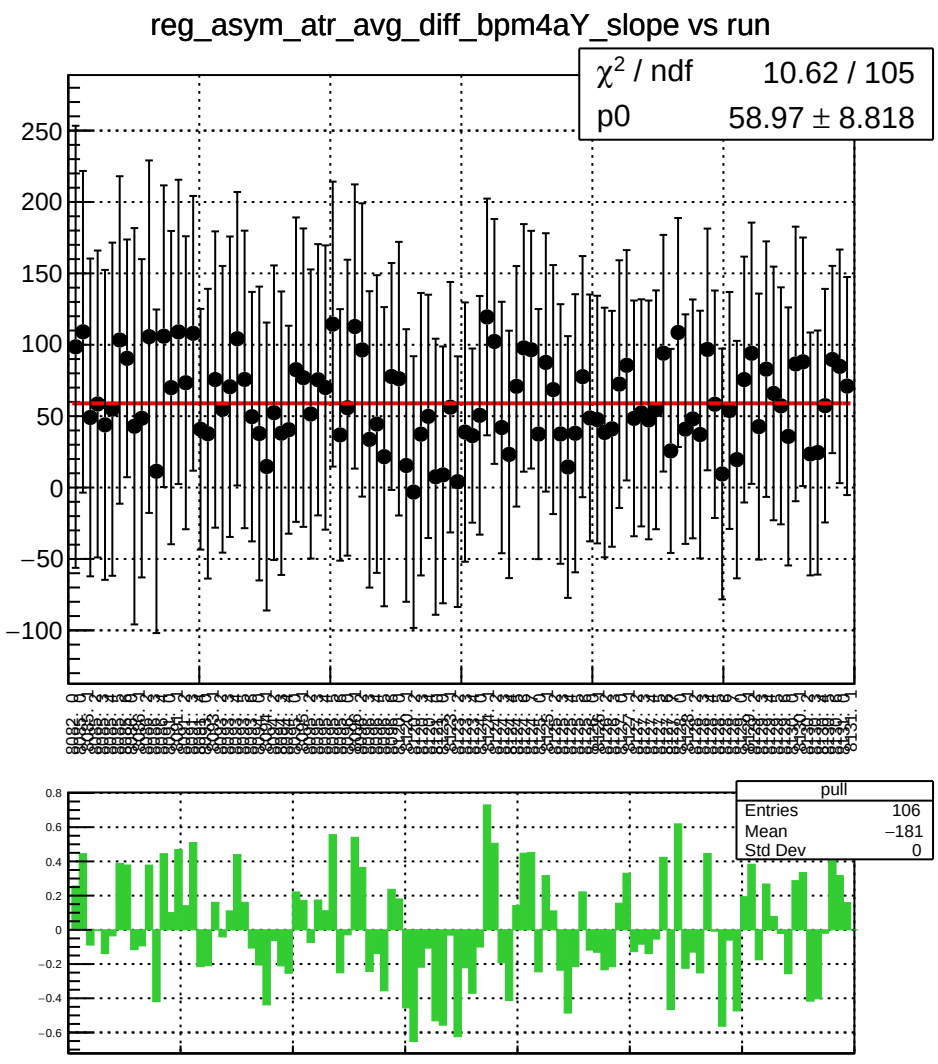

pull1D
Entries 106
Mean −0.0038
Std Dev 0.2939
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

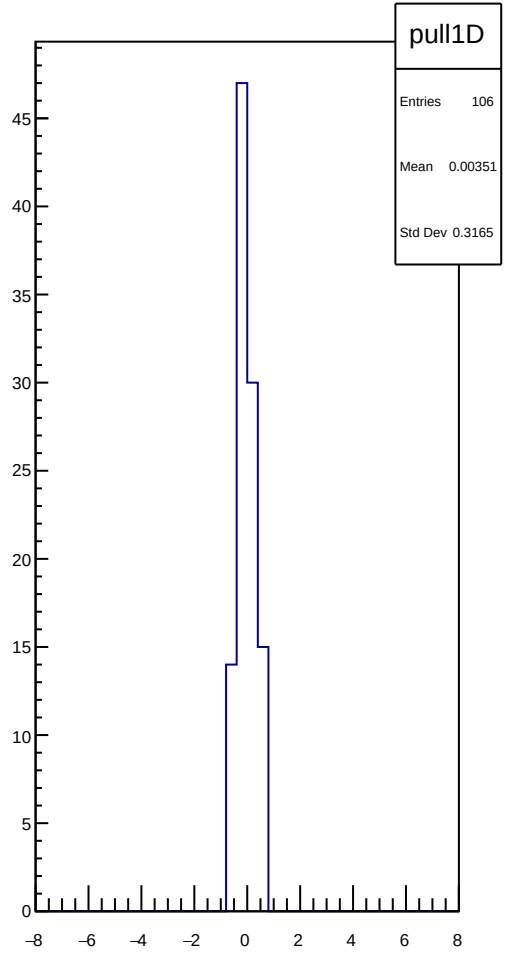

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 76.01 / 105
p0 135.6 ± 0.2975
144
142
140
138
136
134
132
130
128
126
124
pull
Entries 106
Mean −429.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

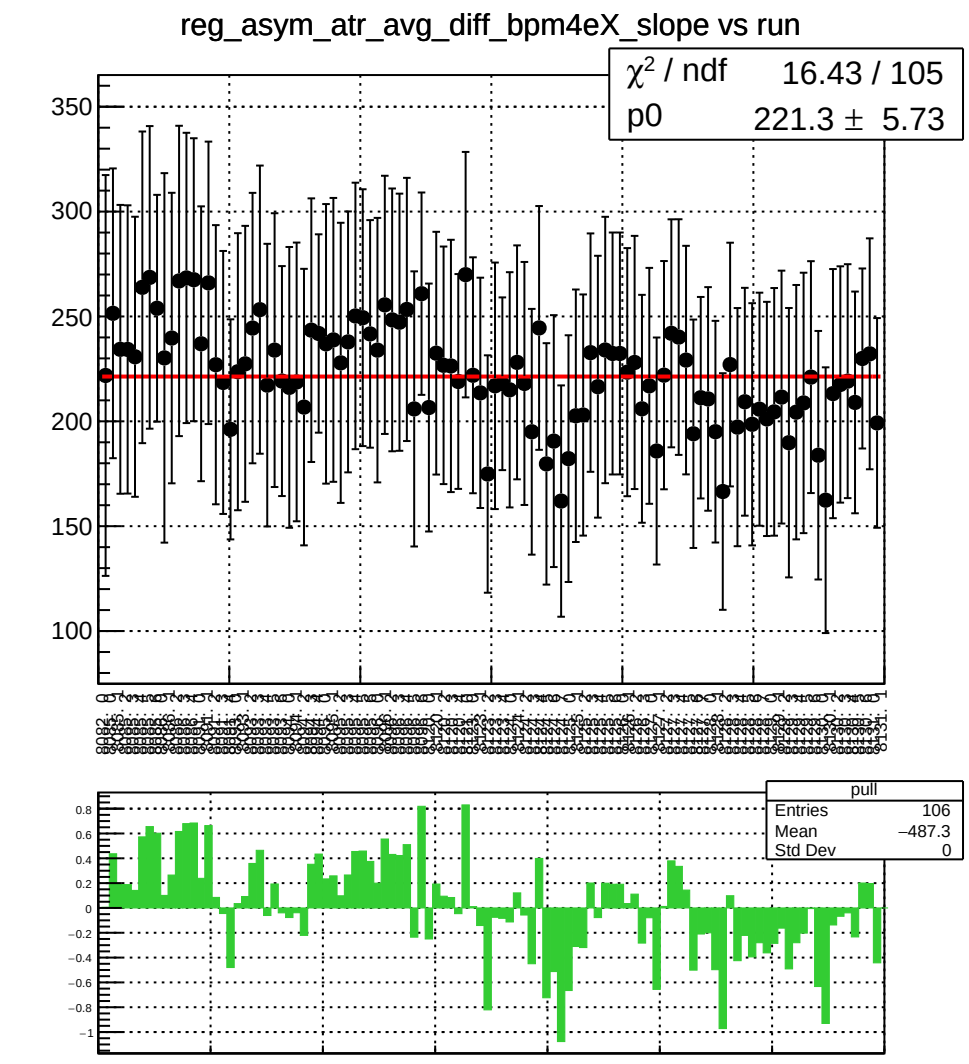

pull1D
Entries 106
Mean −0.0421
Std Dev 0.8458
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

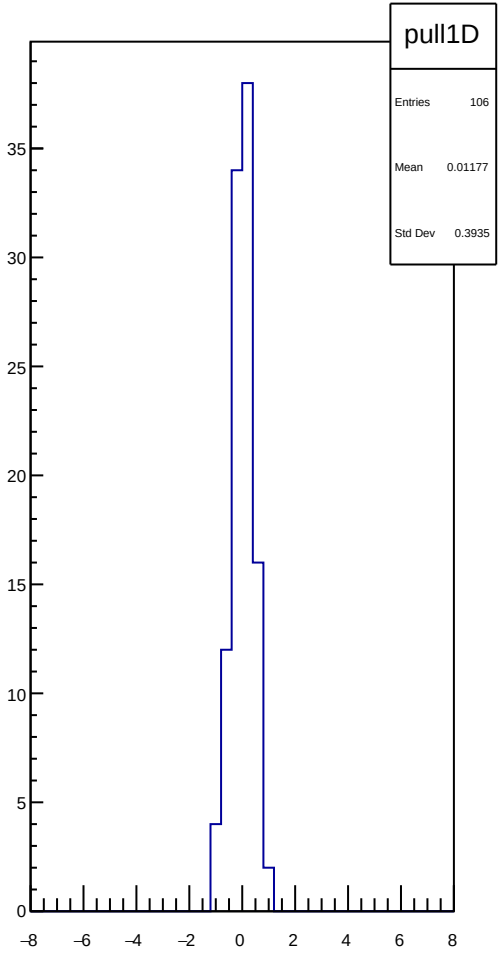

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 15.78 / 105
p0 −226.9 ± 6.036
−100
−150
−200
−250
−300
−350
pull
Entries 106
Mean −599.6
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

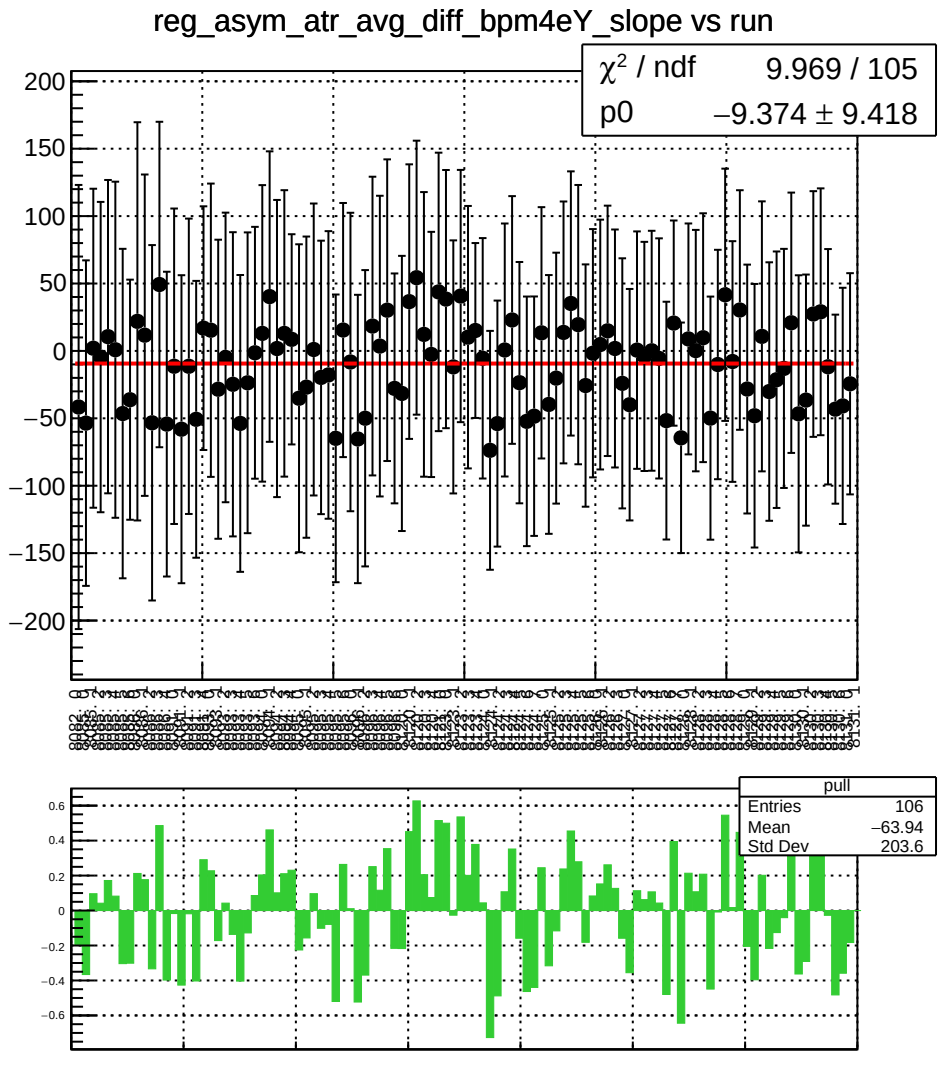

pull1D
Entries 106
Mean −0.009083
Std Dev 0.3858
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

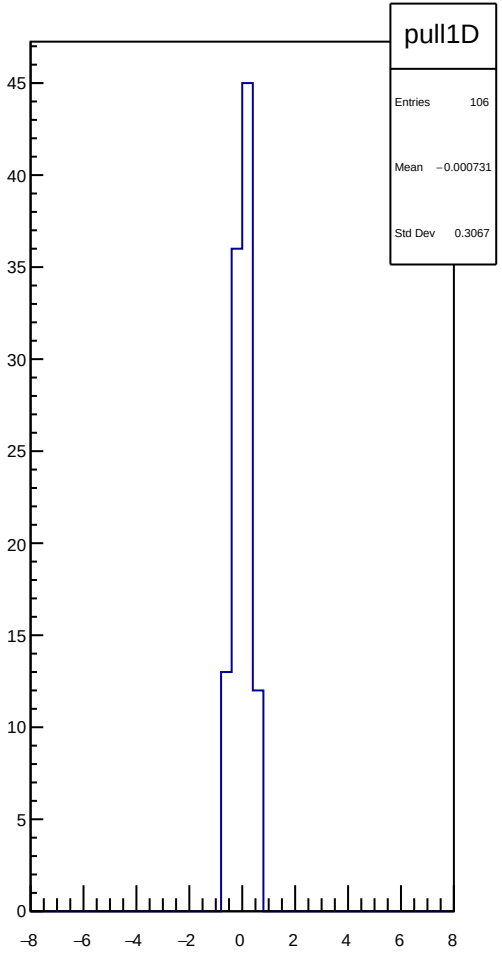

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 10.62 / 105
p0 58.97 ± 8.818
250
200
150
100
50
0
−50
−100
pull
Entries 106
Mean −181
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

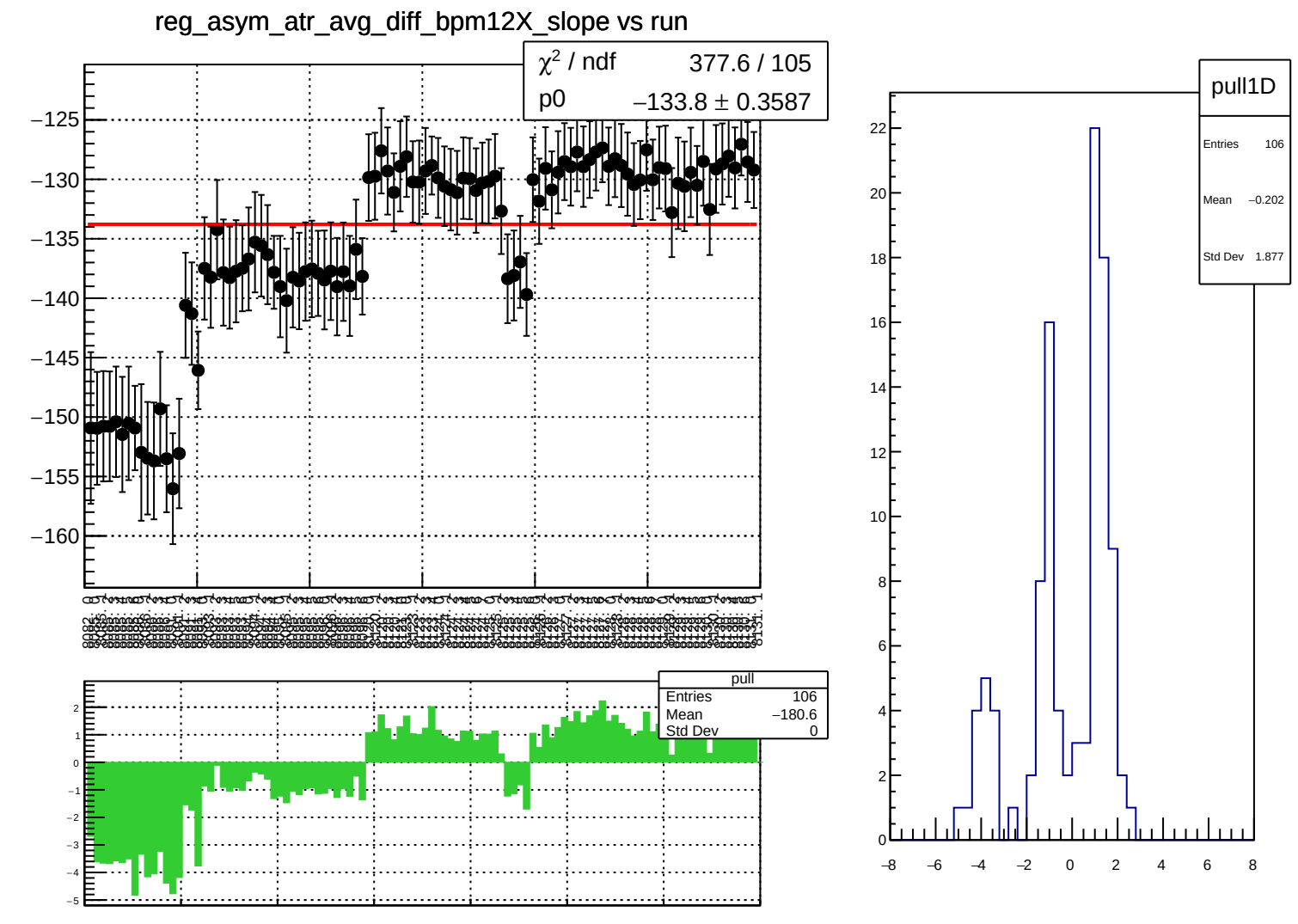

pull1D
Entries 106
Mean 0.00351
Std Dev 0.3165
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

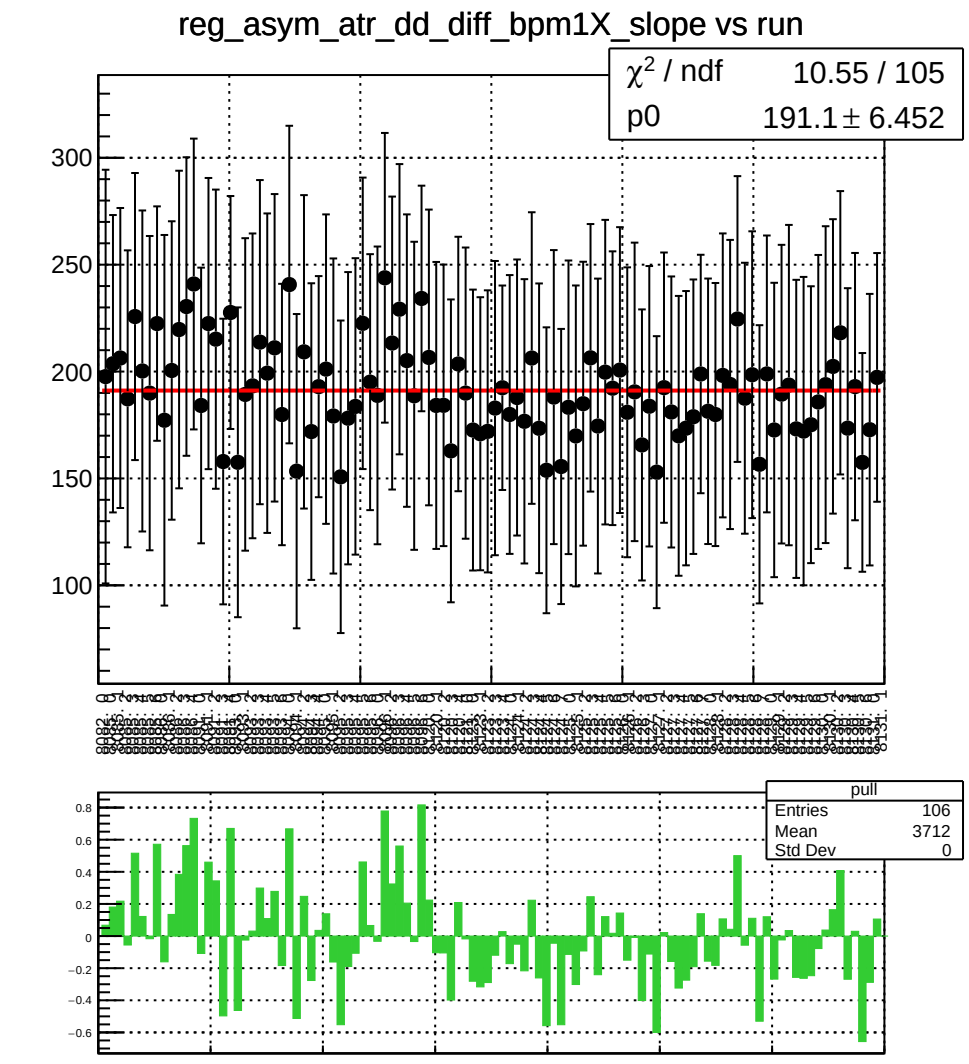

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 16.43 / 105
p0 221.3 ± 5.73
pull
Entries 106
Mean −487.3
Std Dev 0

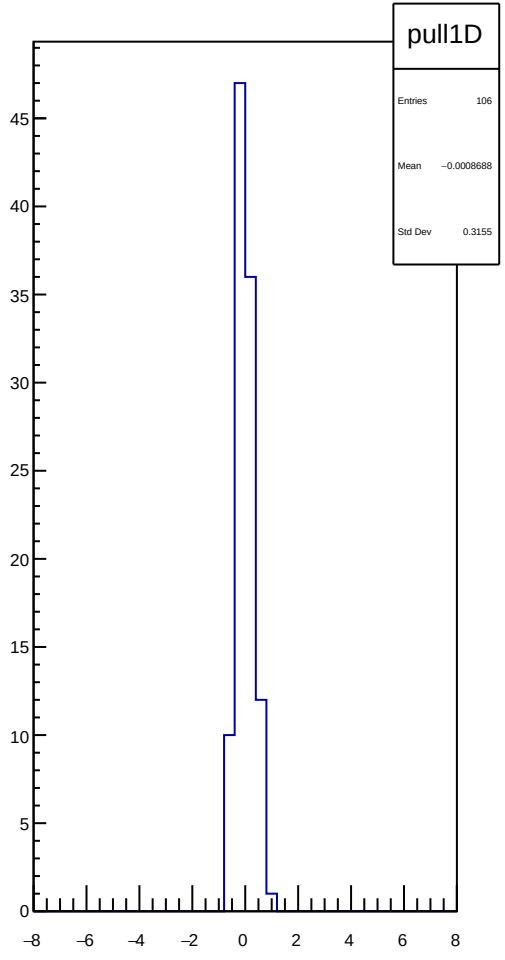

pull1D
Entries 106
Mean 0.01177
Std Dev 0.3935

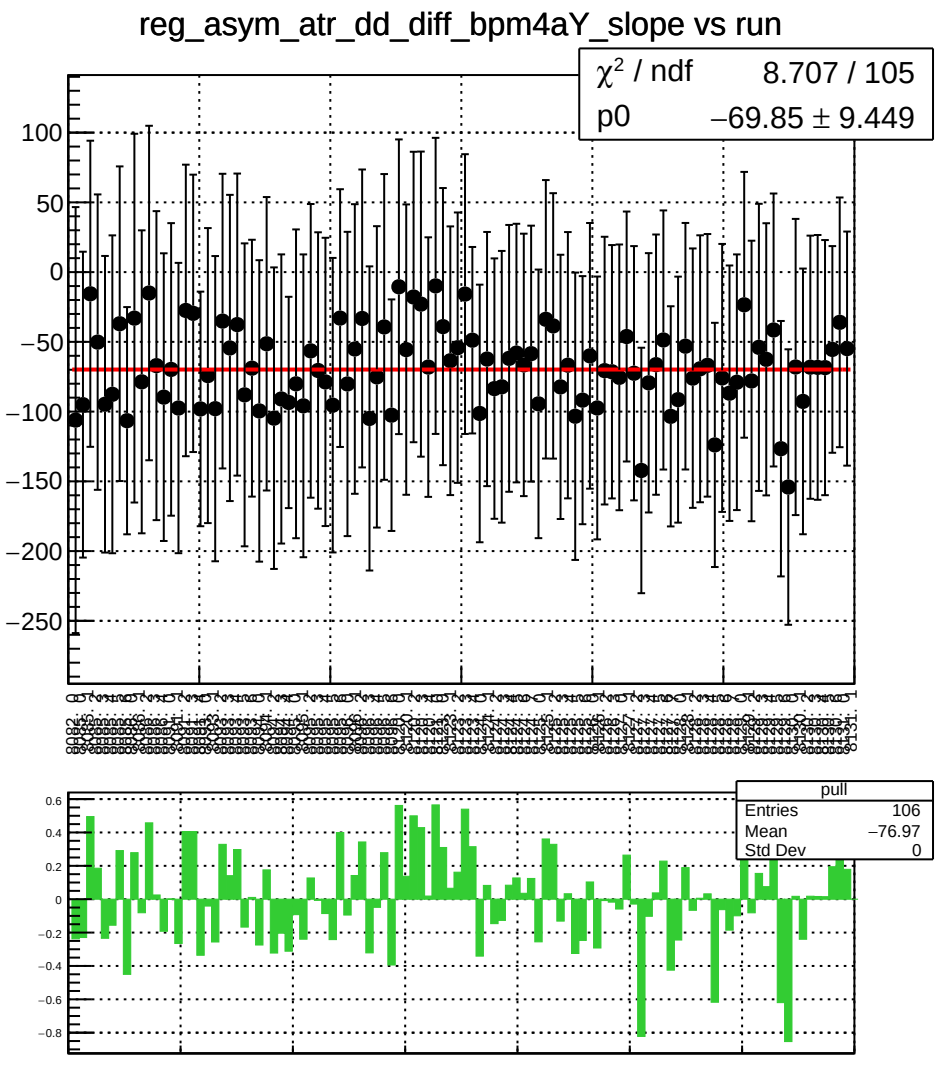

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 9.969 / 105
p0 −9.374 ± 9.418
pull
Entries 106
Mean −63.94
Std Dev 203.6

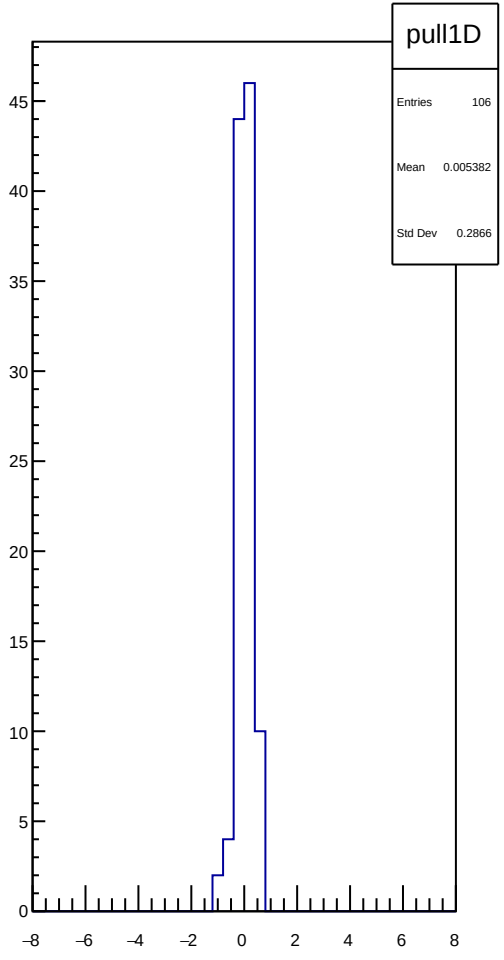

pull1D
Entries 106
Mean −0.000731
Std Dev 0.3067

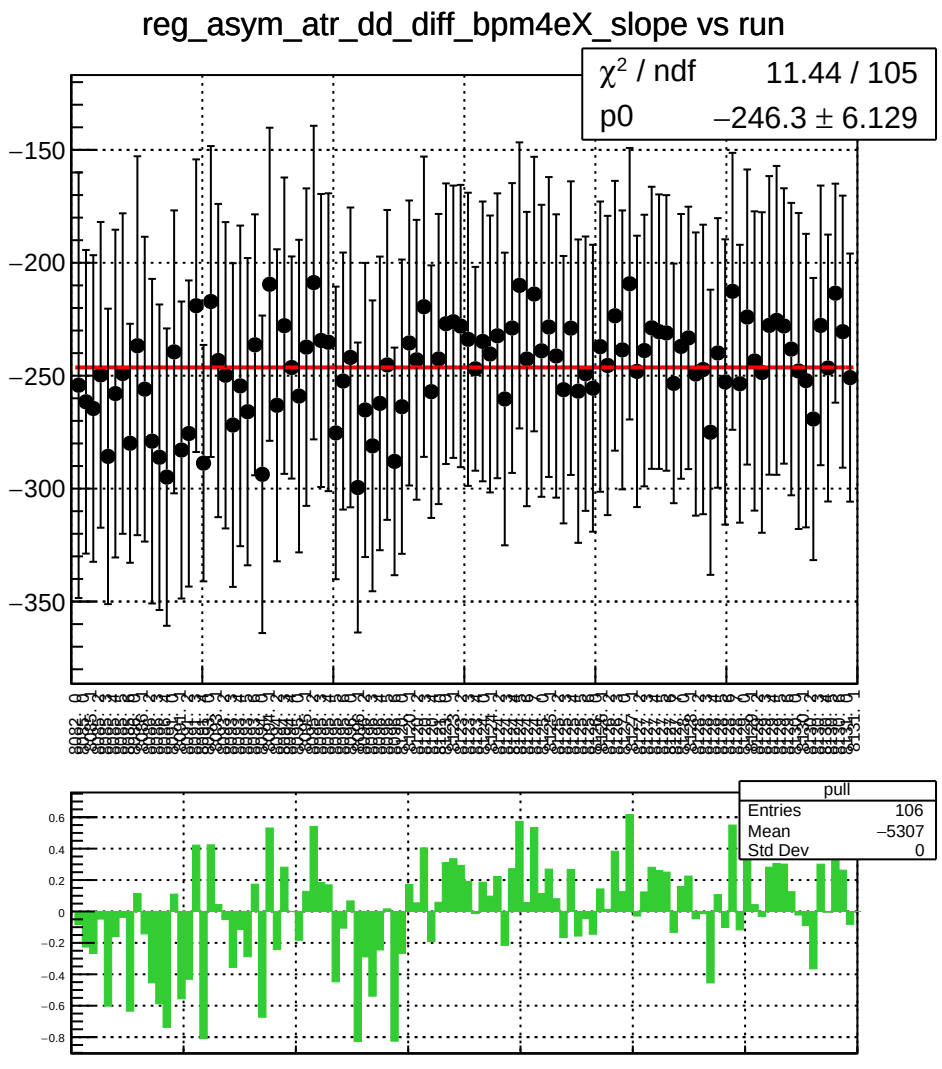

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 377.6 / 105
p0 −133.8 ± 0.3587
pull
Entries 106
Mean −180.6
Std Dev 0
pull1D
Entries 106
Mean −0.202
Std Dev 1.877

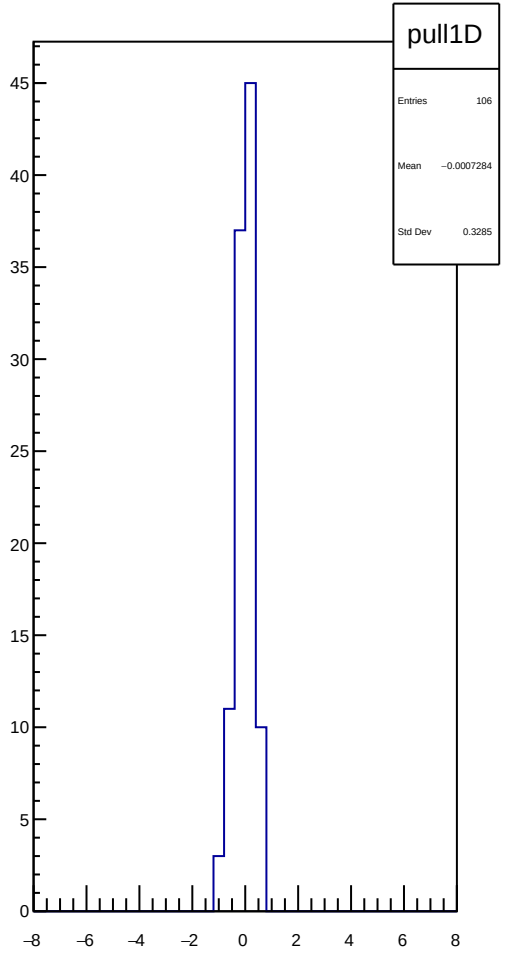

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 10.55 / 105
p0 191.1 ± 6.452
300
250
200
150
100
pull
Entries 106
Mean 3712
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

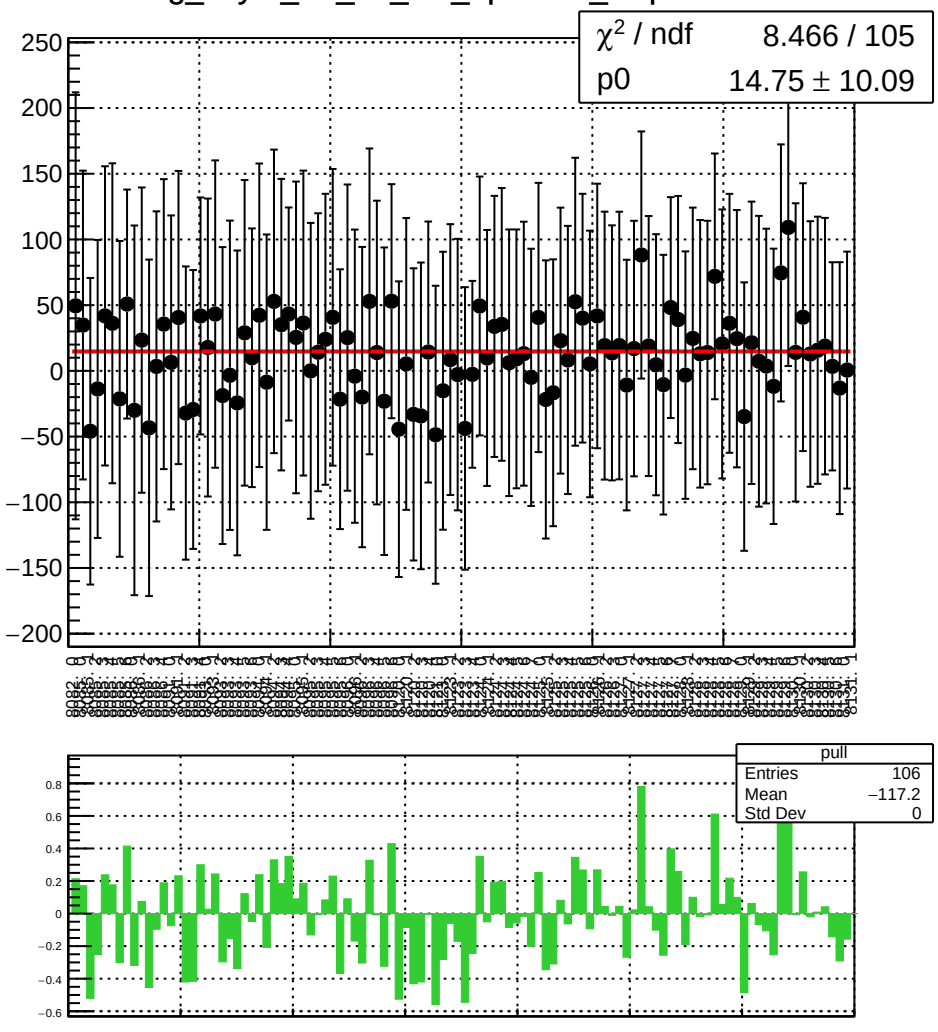

pull1D
Entries 106
Mean −0.0008688
Std Dev 0.3155
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

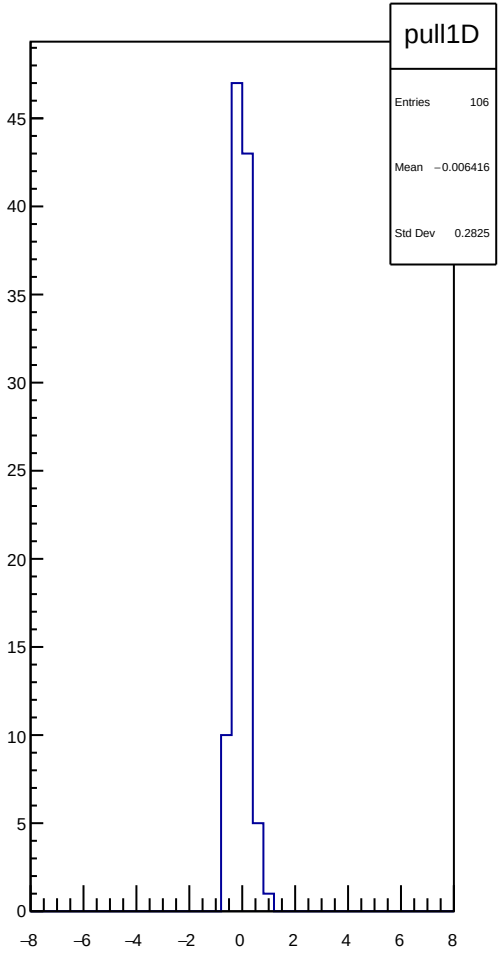

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 8.707 / 105
p0 −69.85 ± 9.449
100
50
0
−50
−100
−150
−200
−250
pull
Entries 106
Mean −76.97
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

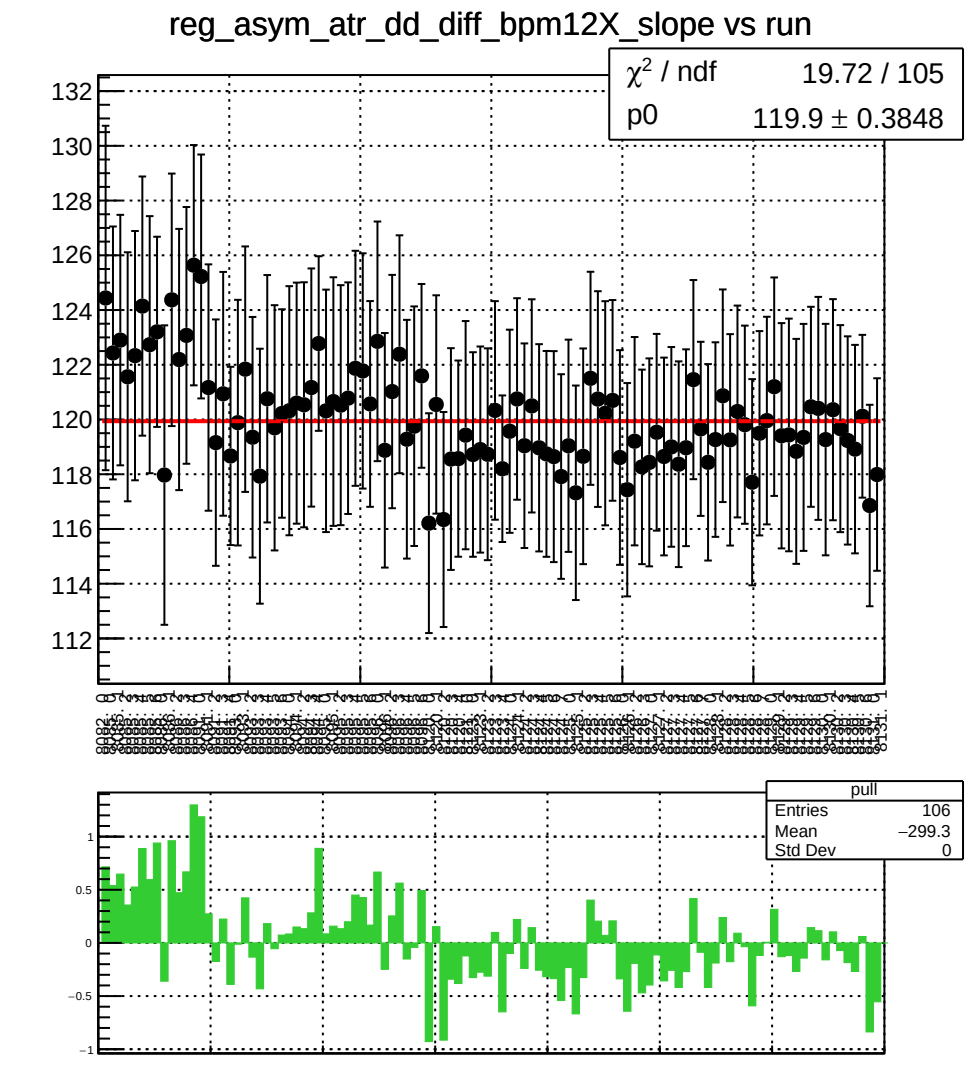

pull1D
Entries 106
Mean 0.005382
Std Dev 0.2866
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

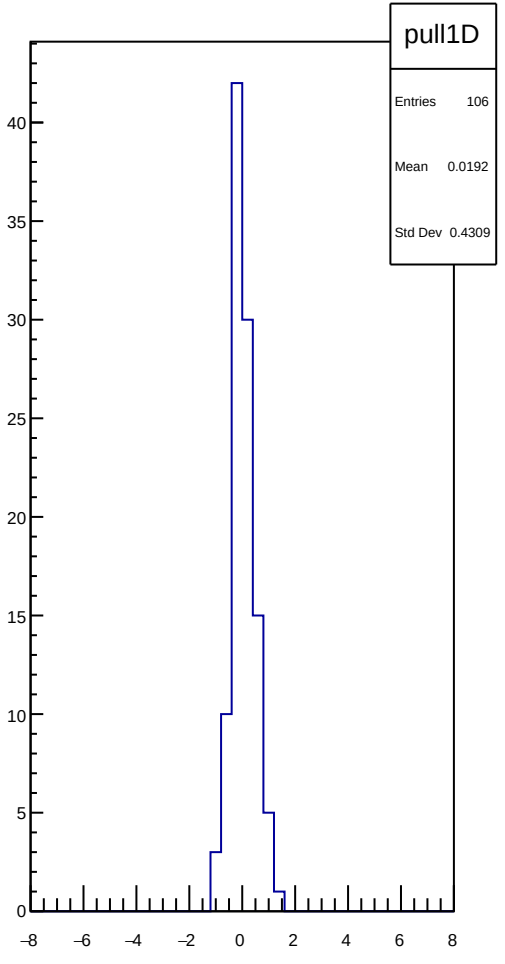

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 11.44 / 105
p0 −246.3 ± 6.129
−150
−200
−250
−300
−350
pull
Entries 106
Mean −5307
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

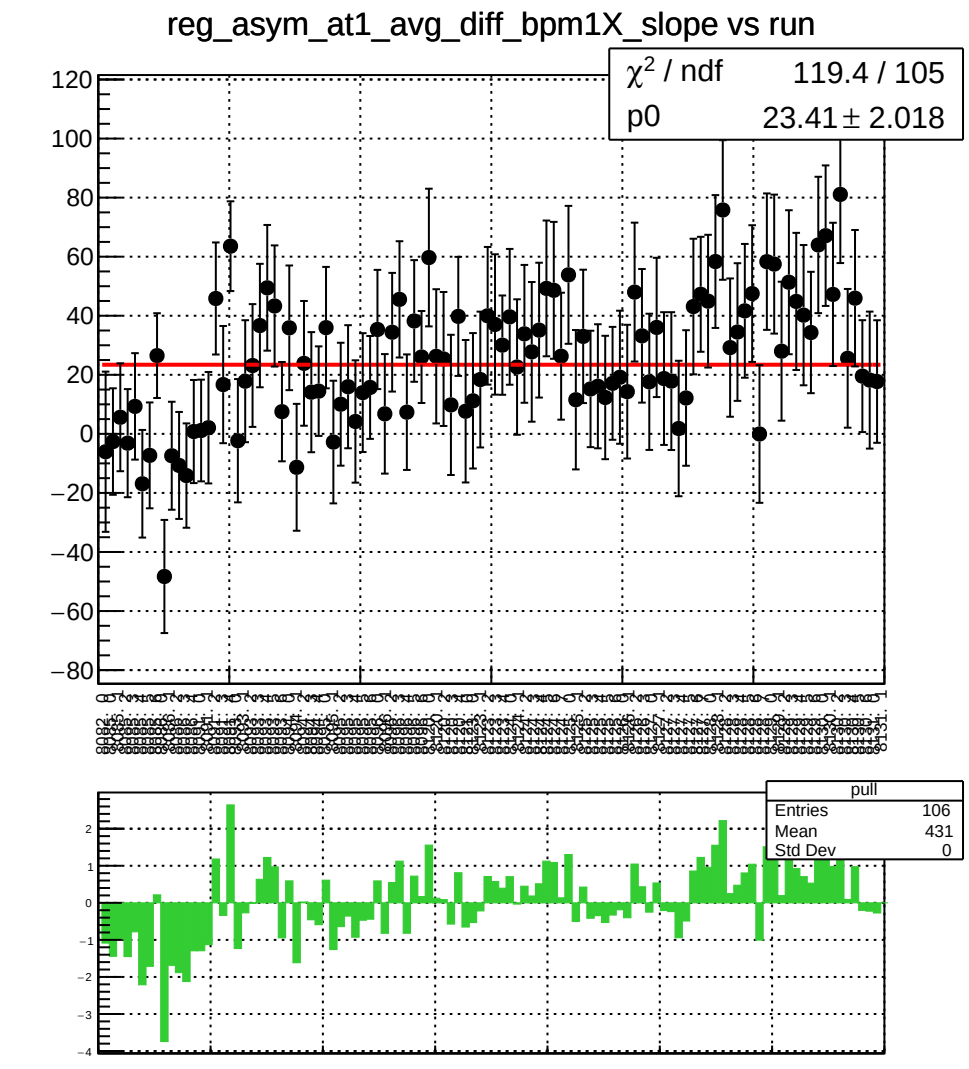

pull1D
Entries 106
Mean −0.0007284
Std Dev 0.3285
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

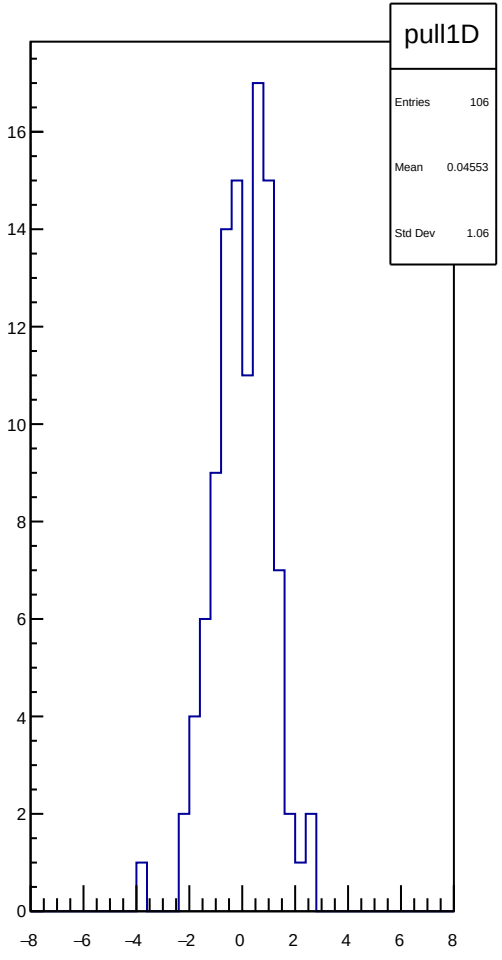

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 8.466 / 105
p0 14.75 ± 10.09
pull
Entries 106
Mean −117.2
Std Dev 0

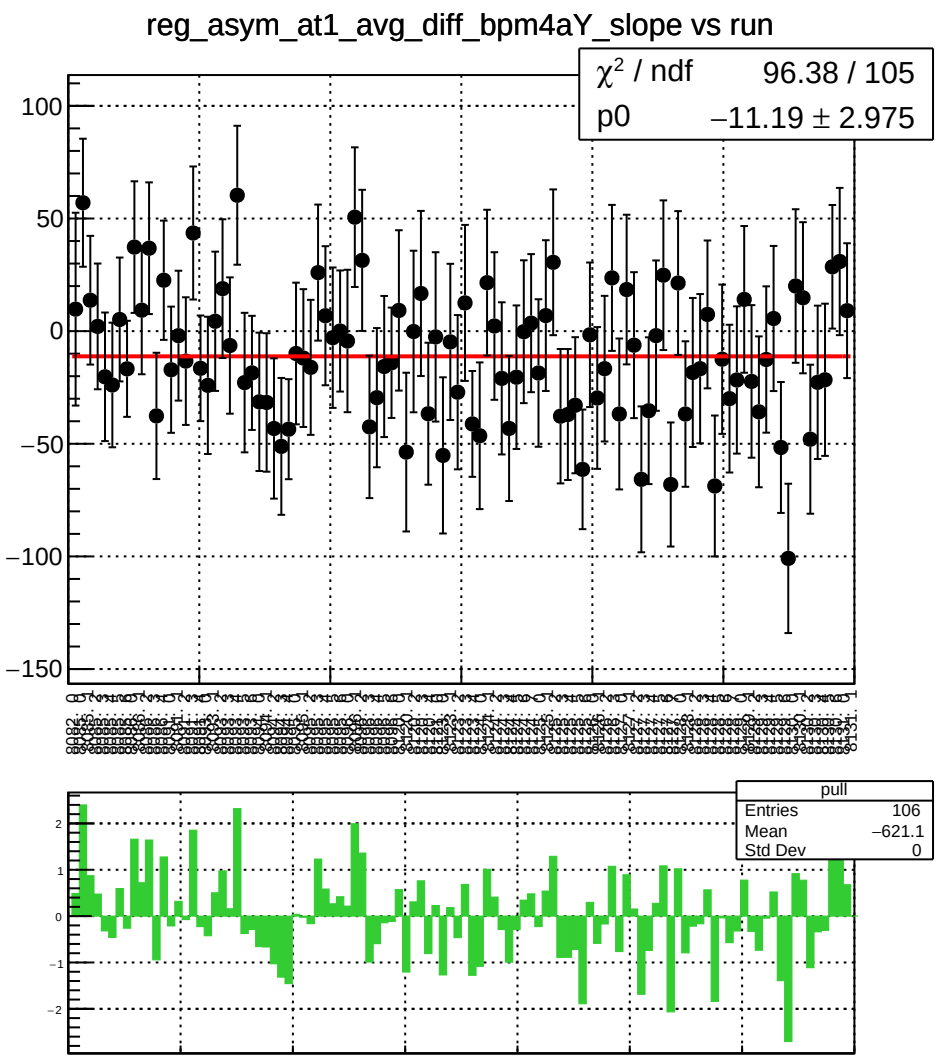

pull1D
Entries 106
Mean −0.006416
Std Dev 0.2825

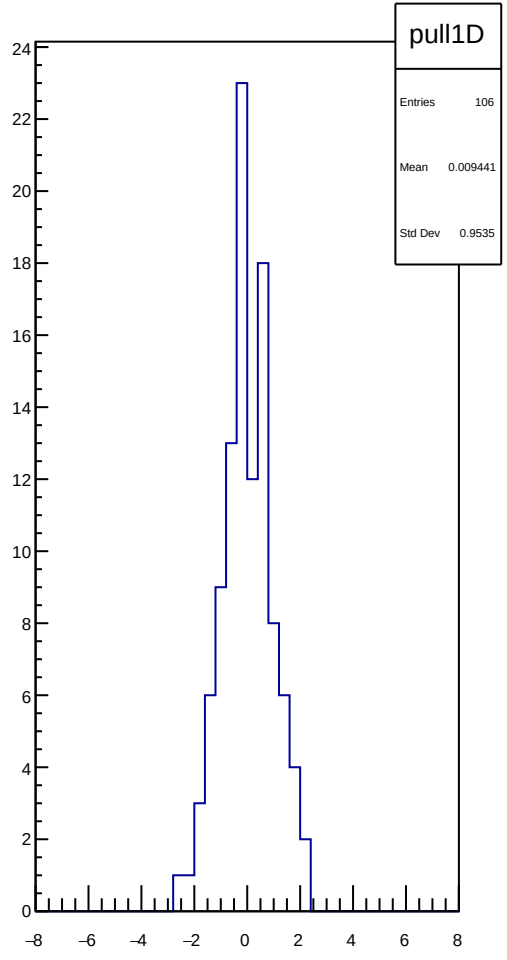

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 19.72 / 105
p0 119.9 ± 0.3848
pull
Entries 106
Mean −299.3
Std Dev 0

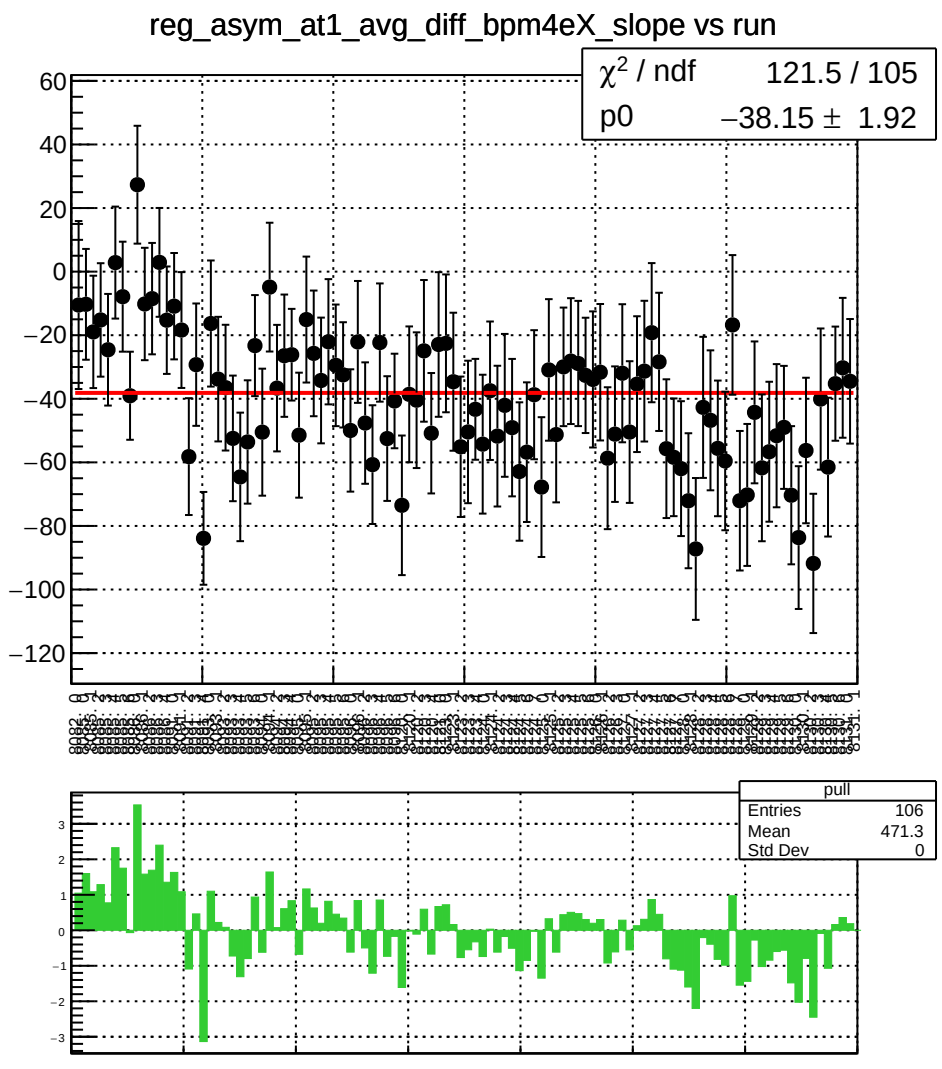

pull1D
Entries 106
Mean 0.0192
Std Dev 0.4309

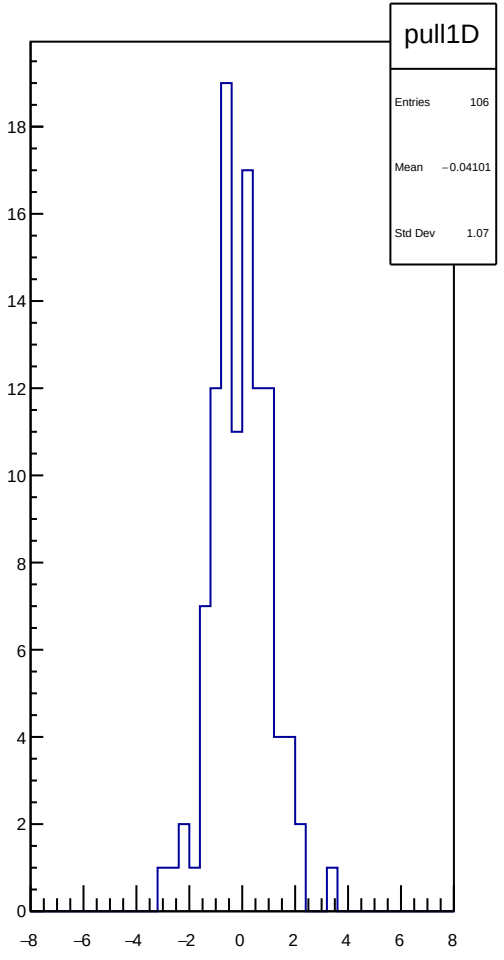

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 119.4 / 105
p0 23.41 ± 2.018
pull
Entries 106
Mean 431
Std Dev 0

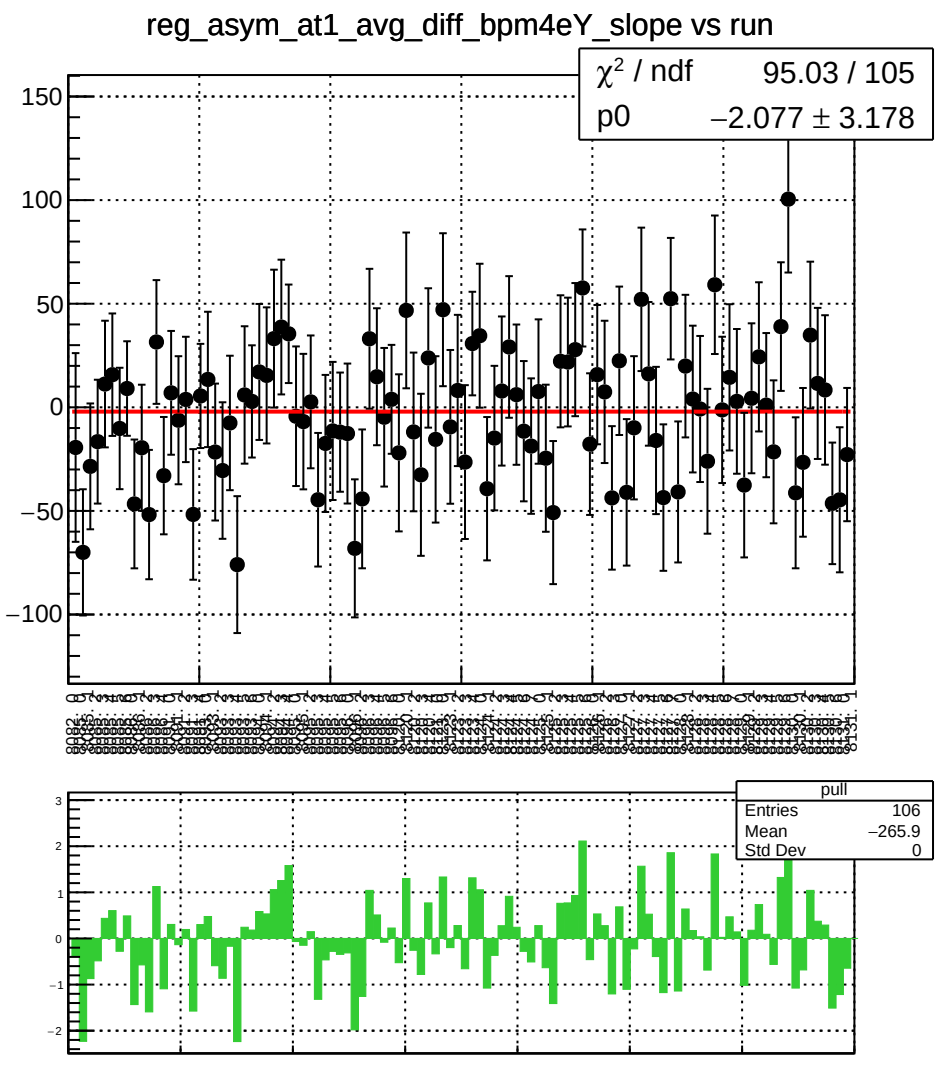

pull1D
Entries 106
Mean 0.04553
Std Dev 1.06

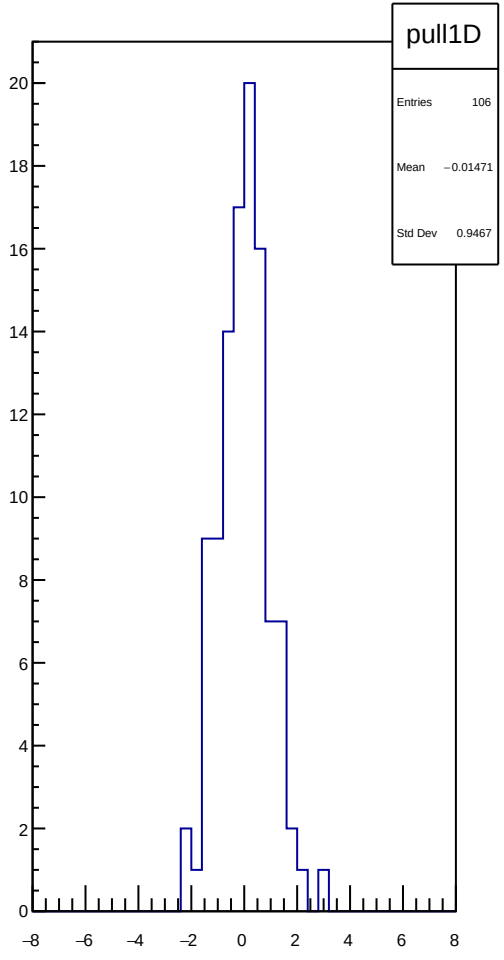

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 96.38 / 105
p0 −11.19 ± 2.975
100
50
0
−50
−100
−150
pull
Entries 106
Mean −621.1
Std Dev 0
2
1
0
−1
−2

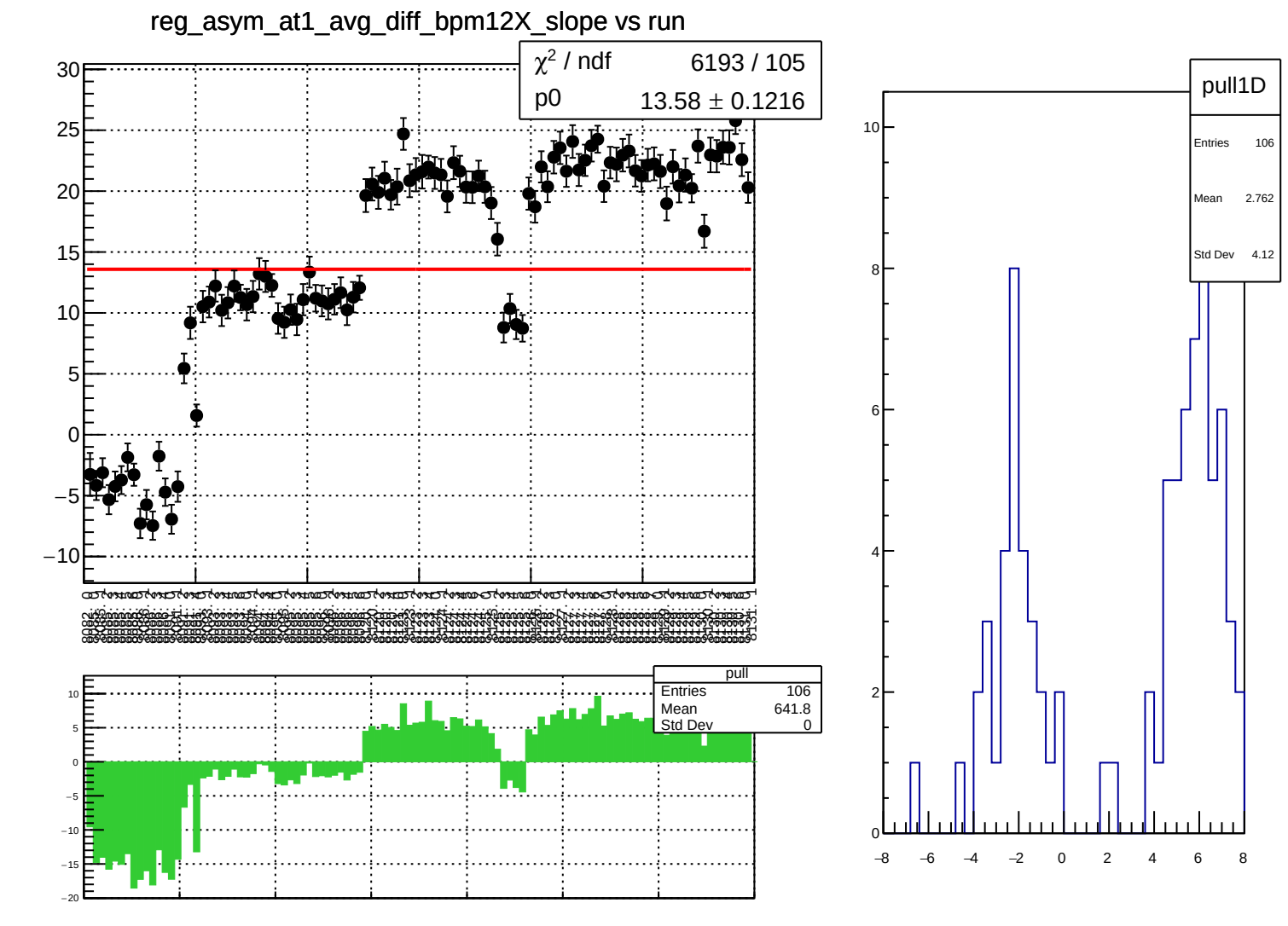

pull1D
Entries 106
Mean 0.009441
Std Dev 0.9535
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

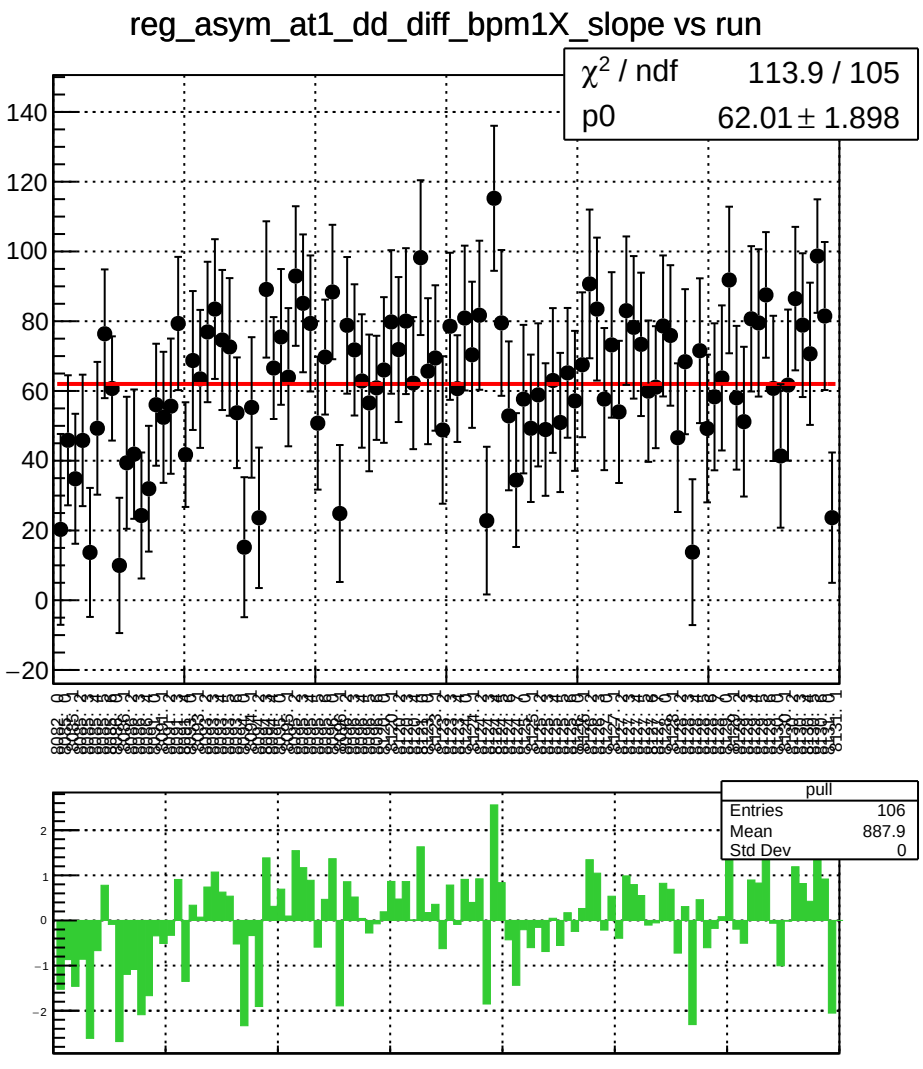

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 121.5 / 105
p0 −38.15 ± 1.92
pull
Entries 106
Mean 471.3
Std Dev 0

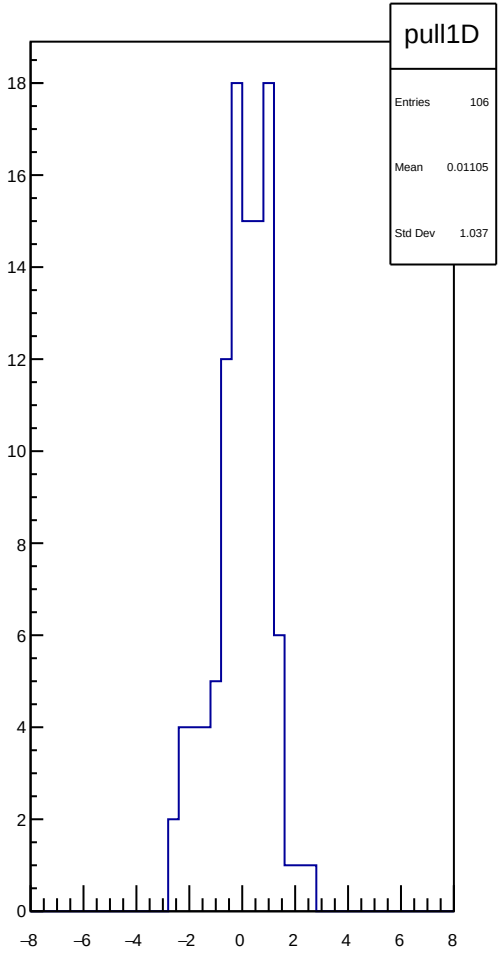

pull1D
Entries 106
Mean −0.04101
Std Dev 1.07

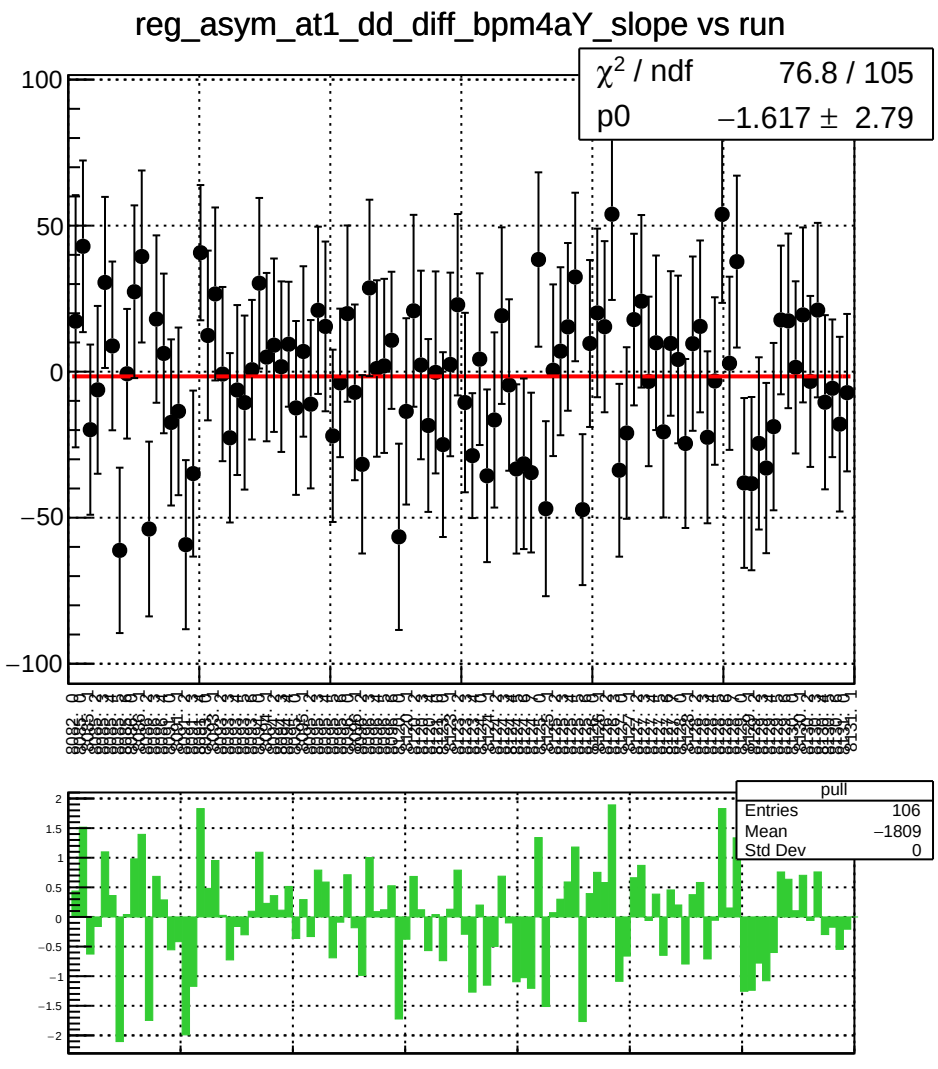

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 95.03 / 105
p0 −2.077 ± 3.178
150
100
50
0
−50
−100
pull
Entries 106
Mean −265.9
Std Dev 0
3
2
1
0
−1
−2

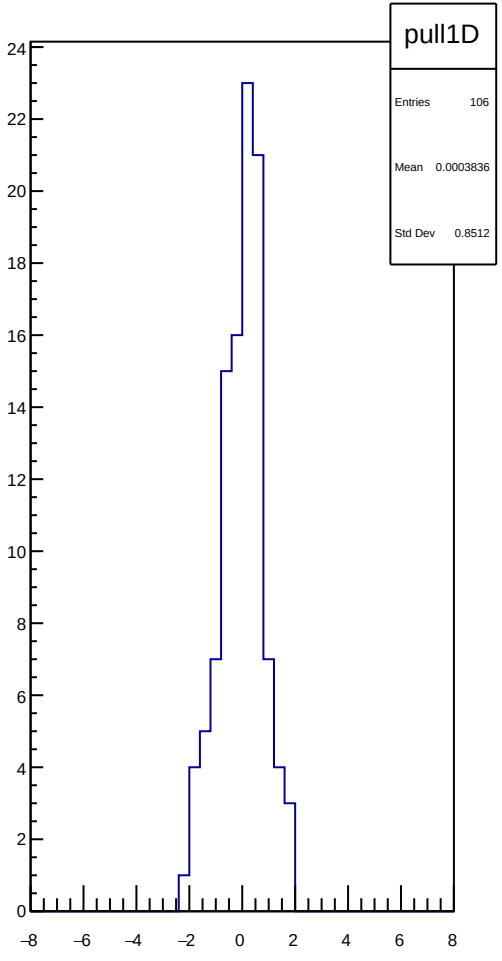

pull1D
Entries 106
Mean −0.01471
Std Dev 0.9467
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

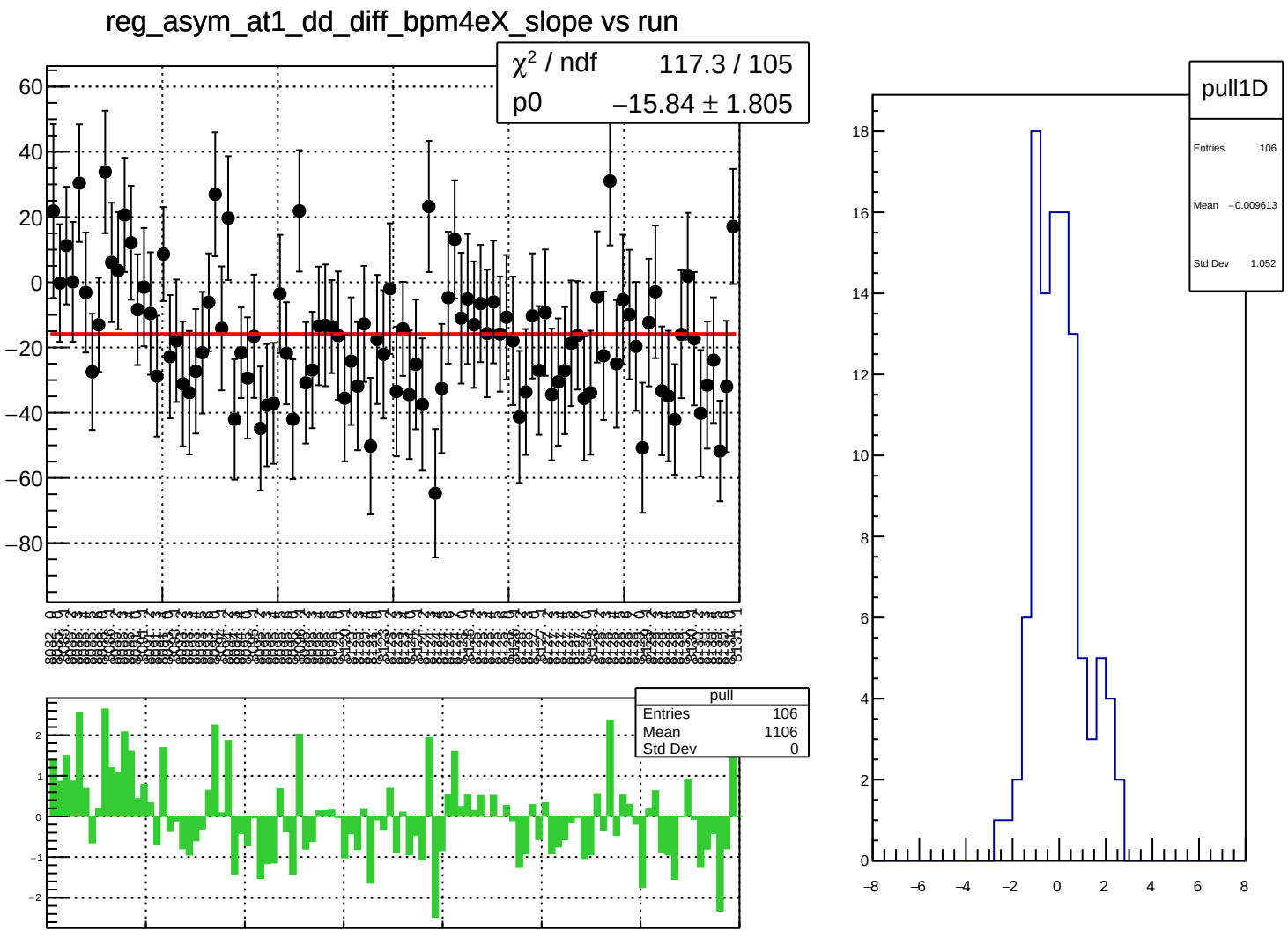

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 6193 / 105
p0 13.58 ± 0.1216
pull
Entries 106
Mean 641.8
Std Dev 0
pull1D
Entries 106
Mean 2.762
Std Dev 4.12

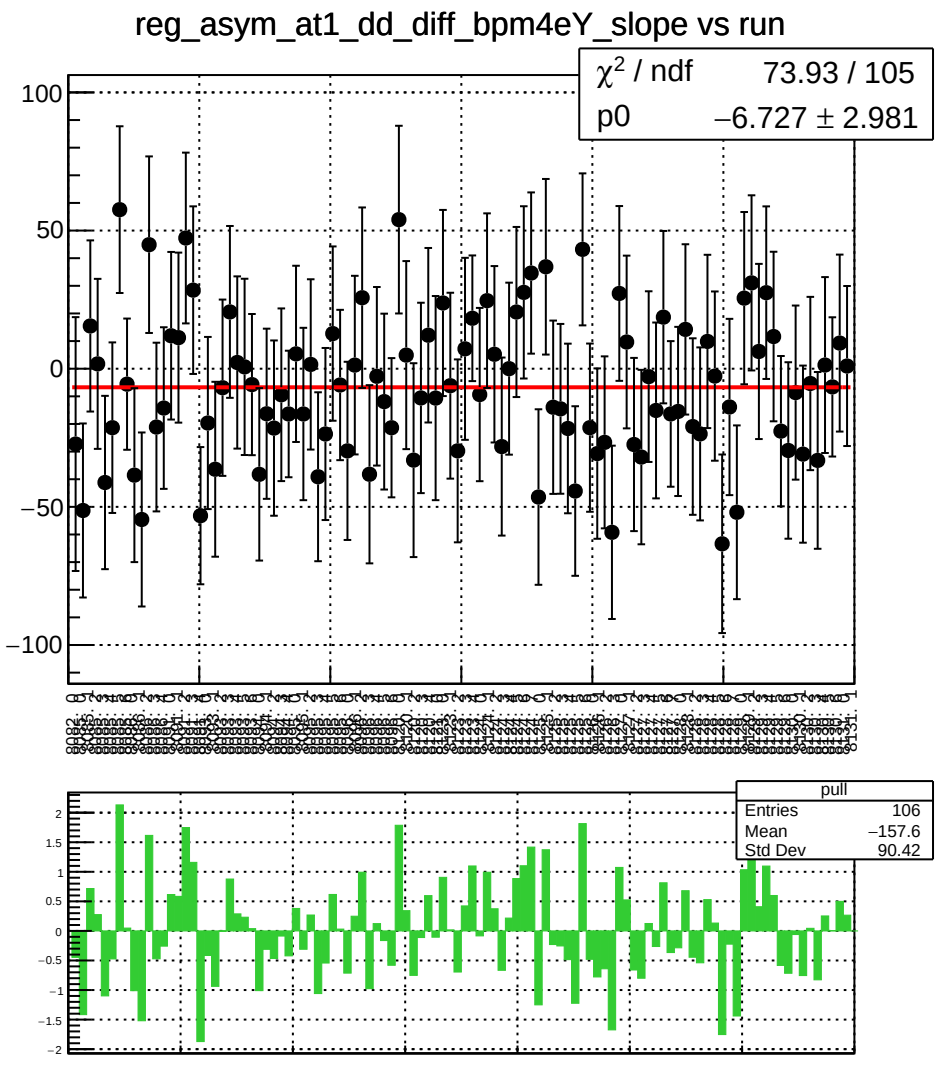

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 113.9 / 105
p0 62.01 ± 1.898
pull
Entries 106
Mean 887.9
Std Dev 0

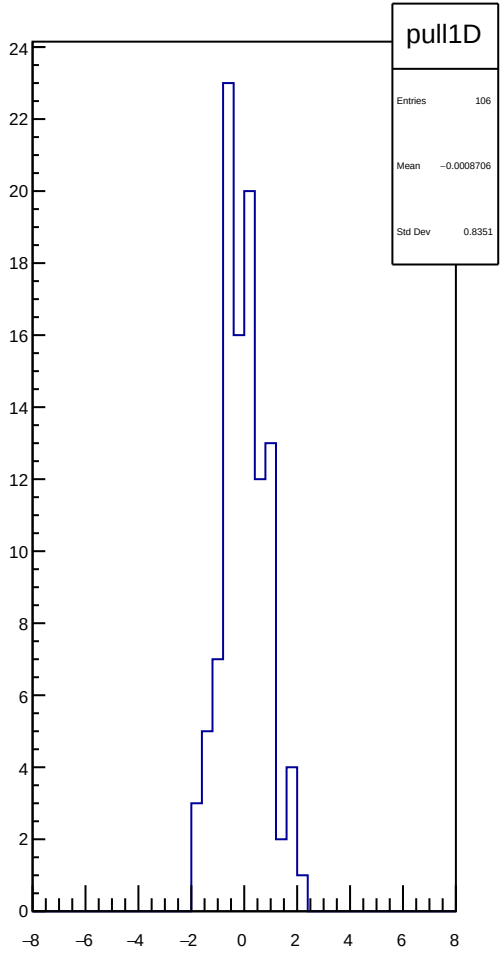

pull1D
Entries 106
Mean 0.01105
Std Dev 1.037

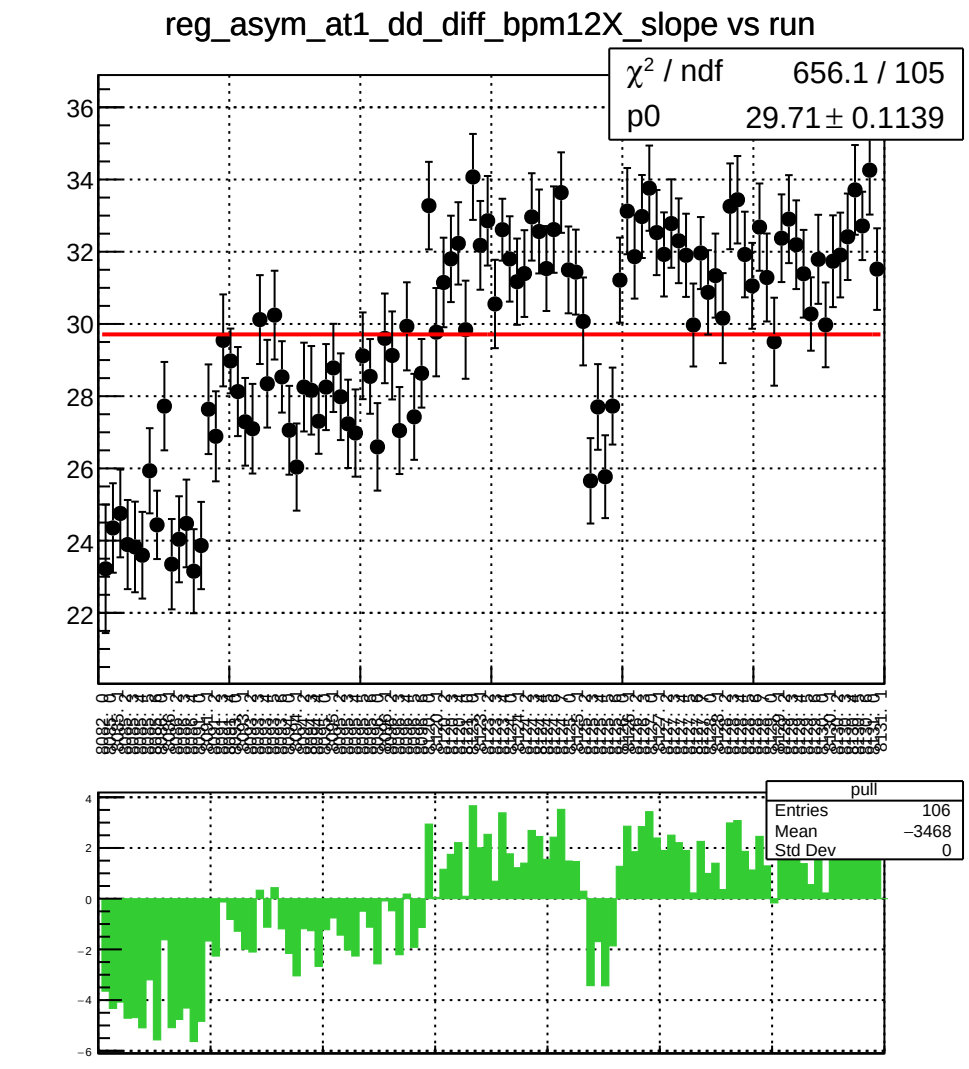

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 76.8 / 105
p0 −1.617 ± 2.79
pull
Entries 106
Mean −1809
Std Dev 0

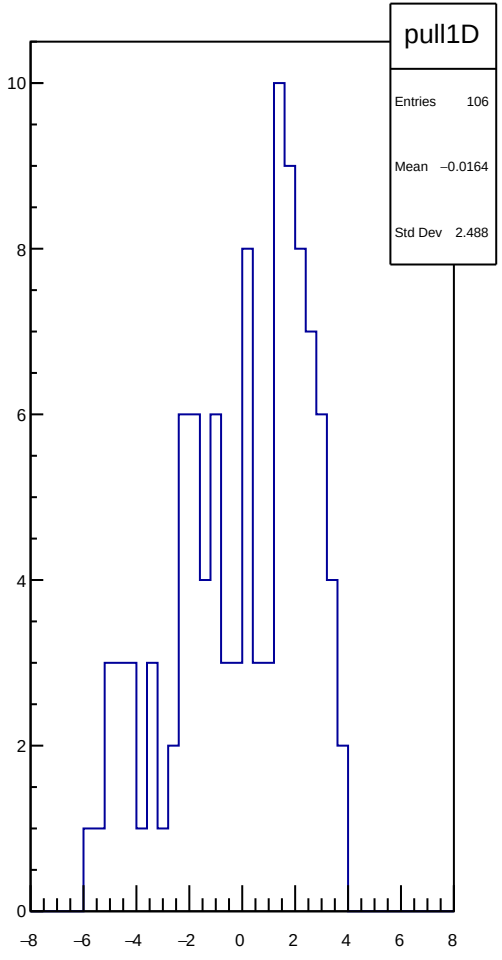

pull1D
Entries 106
Mean 0.0003836
Std Dev 0.8512

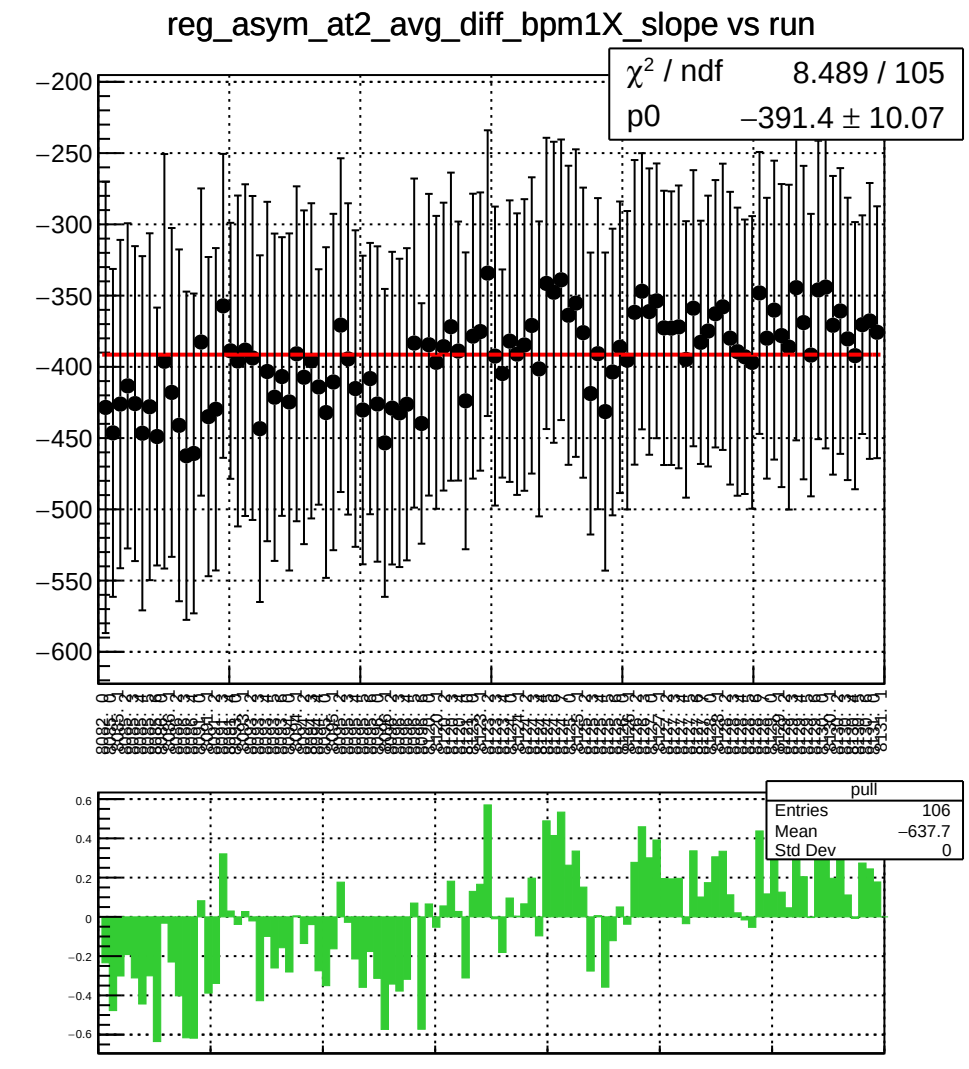

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 117.3 / 105
p0 −15.84 ± 1.805
pull
Entries 106
Mean 1106
Std Dev 0
pull1D
Entries 106
Mean −0.009613
Std Dev 1.052

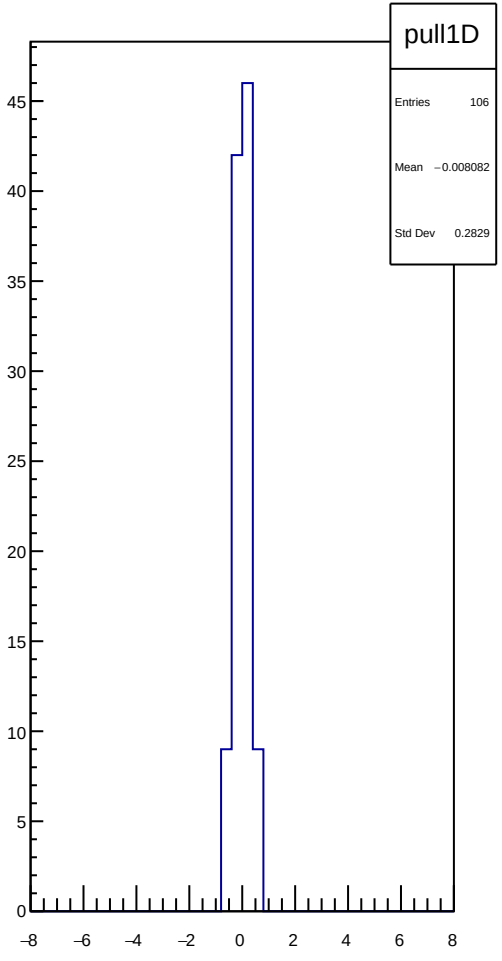

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 73.93 / 105
p0 −6.727 ± 2.981
100
50
0
−50
−100
pull
Entries 106
Mean −157.6
Std Dev 90.42
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

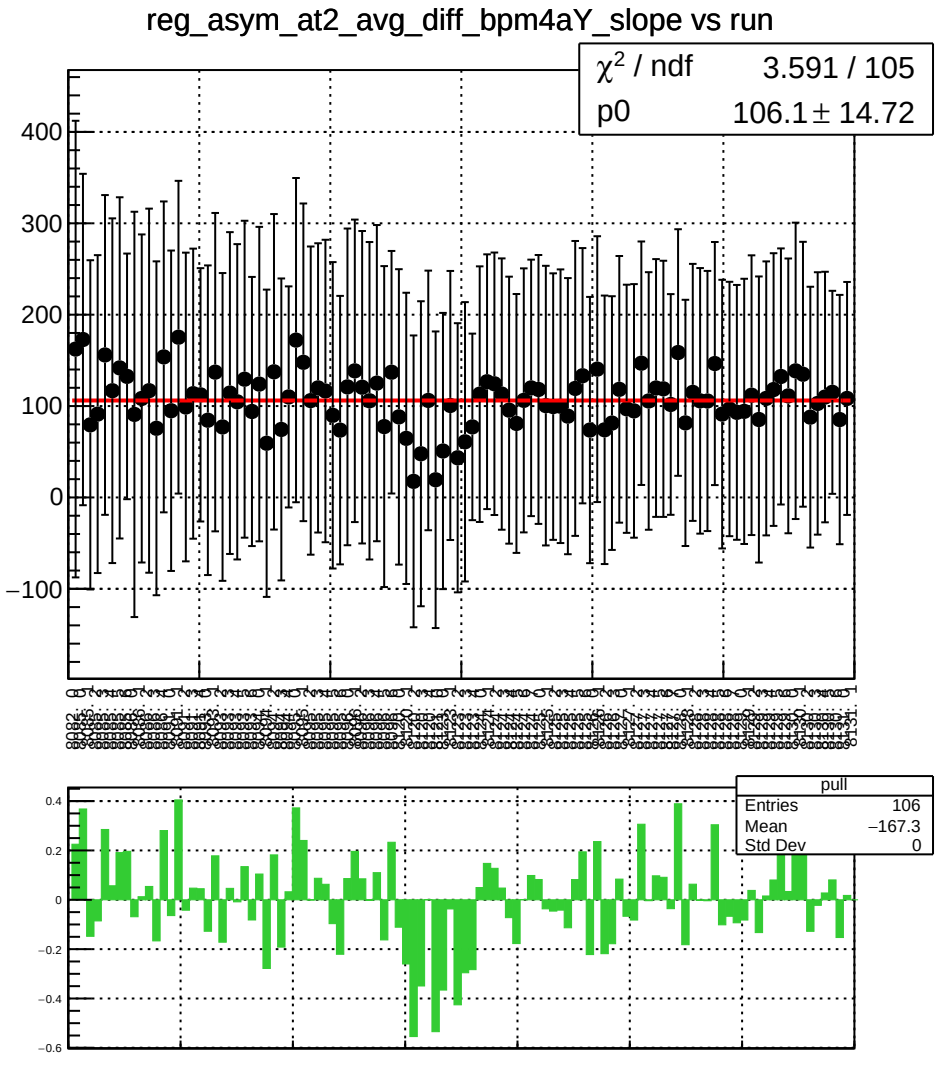

pull1D
Entries 106
Mean −0.0008706
Std Dev 0.8351
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

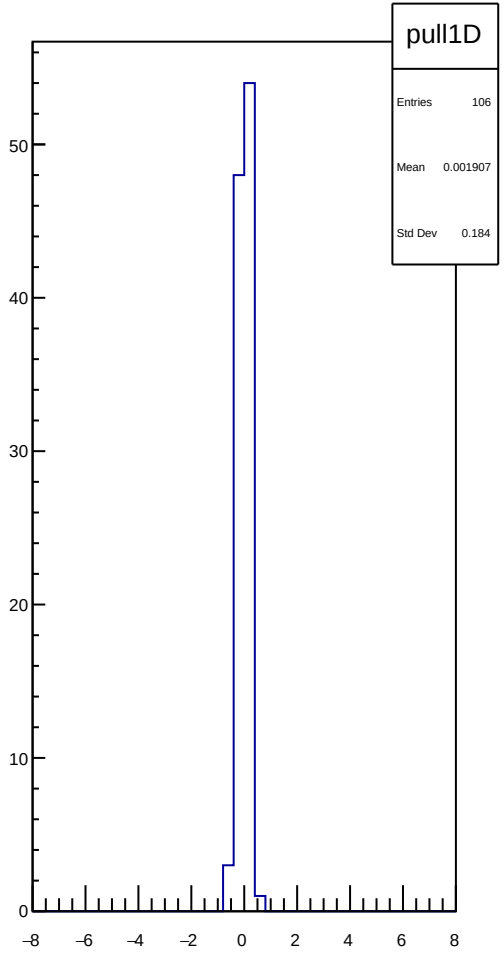

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 656.1 / 105
p0 29.71 ± 0.1139
pull
Entries 106
Mean −3468
Std Dev 0

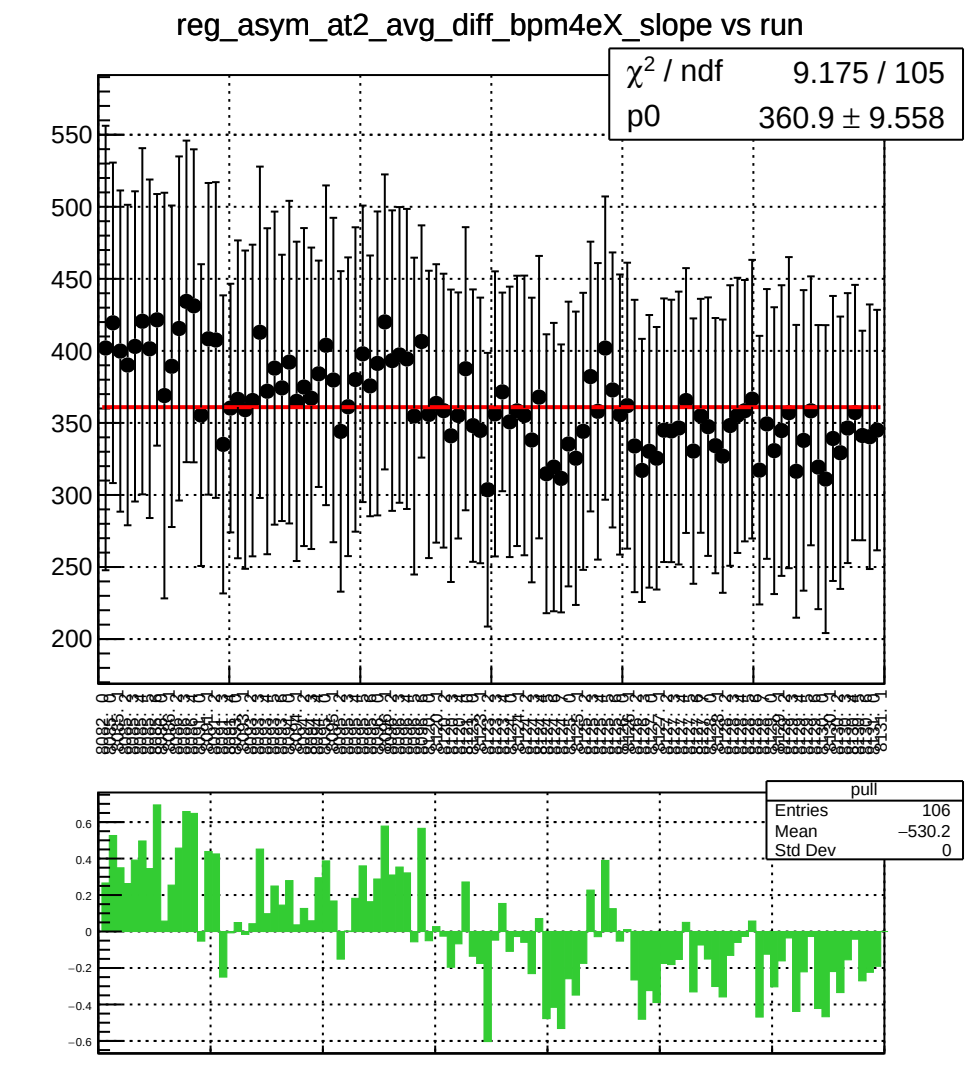

pull1D
Entries 106
Mean −0.0164
Std Dev 2.488

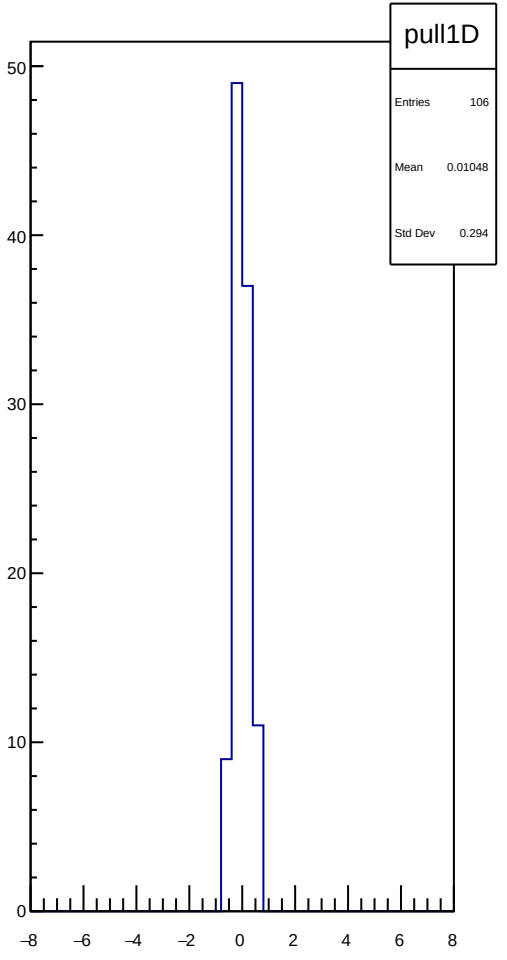

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 8.489 / 105
p0 −391.4 ± 10.07
pull
Entries 106
Mean −637.7
Std Dev 0

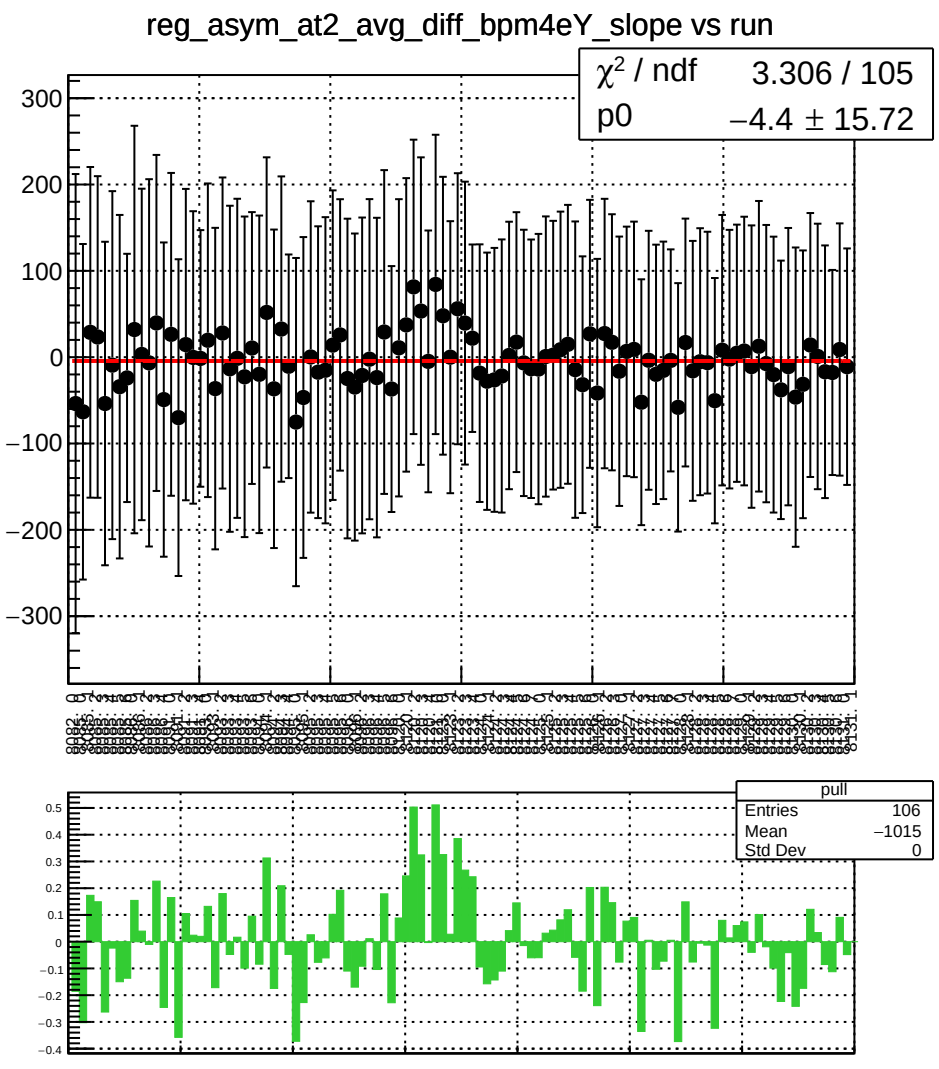

pull1D
Entries 106
Mean −0.008082
Std Dev 0.2829

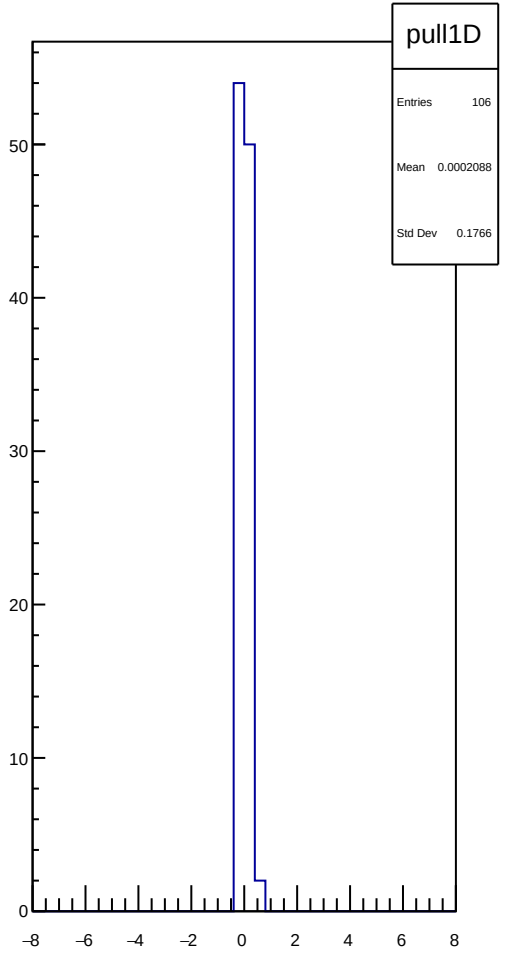

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 3.591 / 105
p0 106.1 ± 14.72
400
300
200
100
0
−100
pull
Entries 106
Mean −167.3
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6

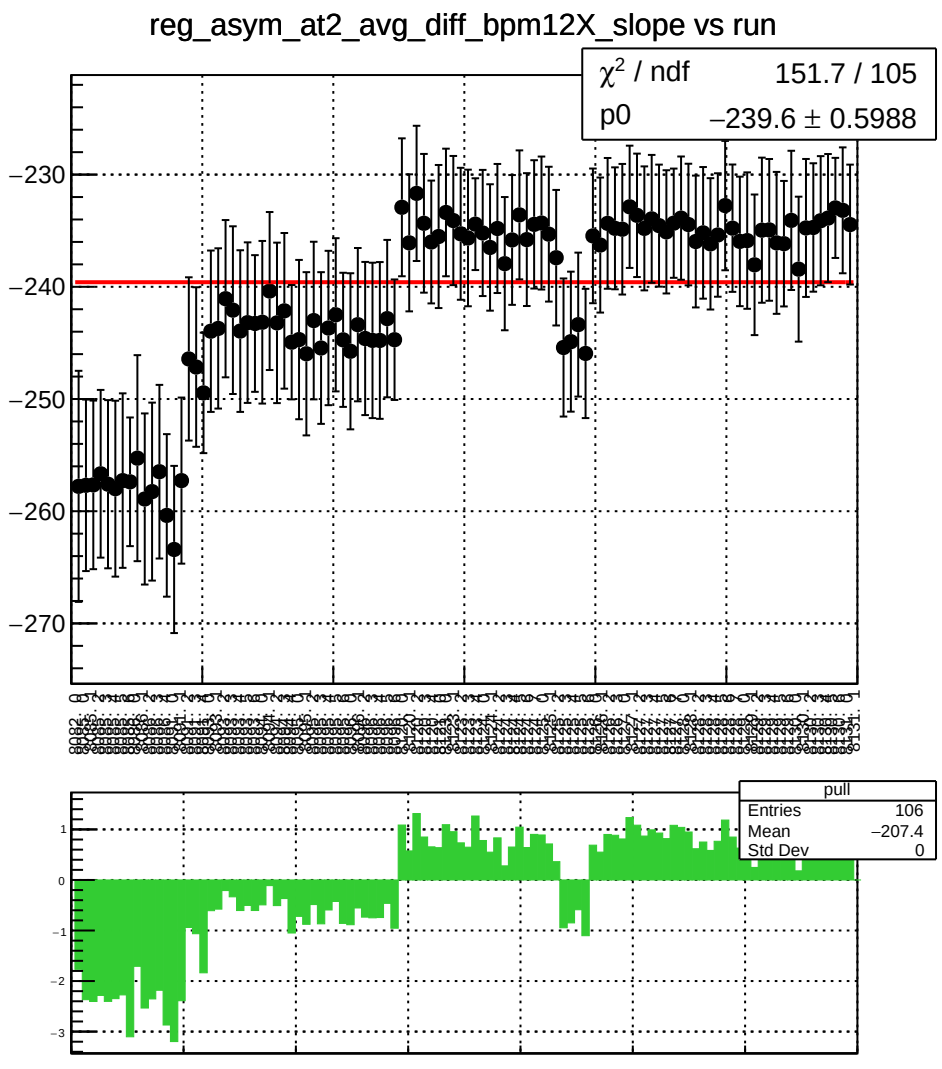

pull1D
Entries 106
Mean 0.001907
Std Dev 0.184
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

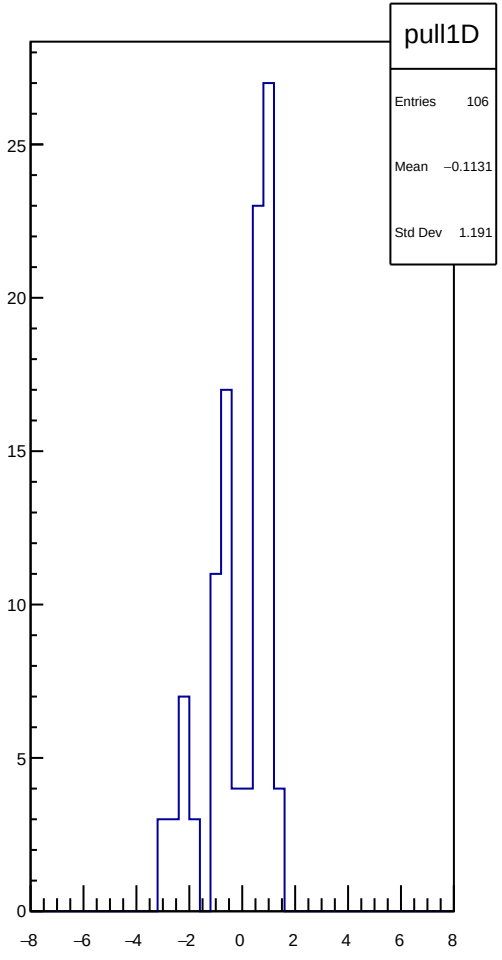

reg_asym_at2_avg_diff_bpm4eX_slope vs run
$\chi^2$ / ndf 9.175 / 105
p0 360.9 ± 9.558
550
500
450
400
350
300
250
200
pull
Entries 106
Mean −530.2
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

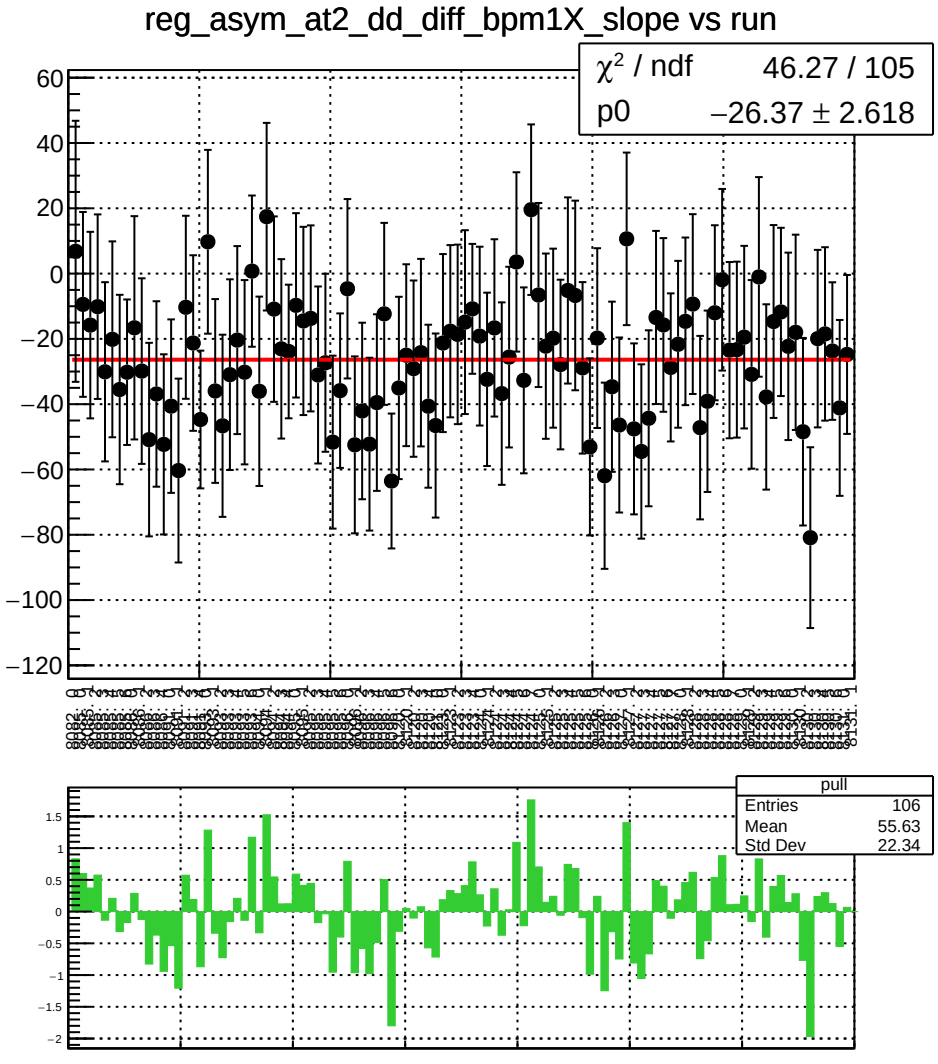

pull1D
Entries 106
Mean 0.01048
Std Dev 0.294
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

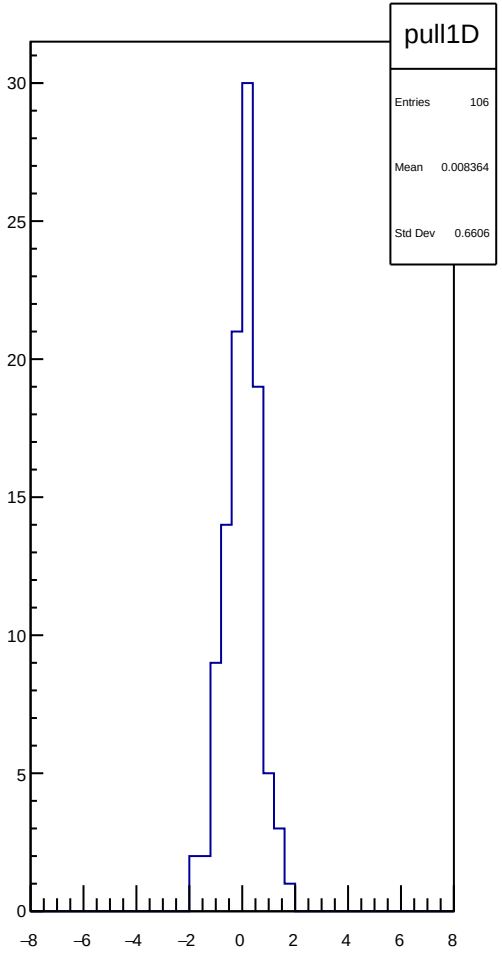

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.306 / 105
p0 −4.4 ± 15.72
300
200
100
0
−100
−200
−300
pull
Entries 106
Mean −1015
Std Dev 0
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4

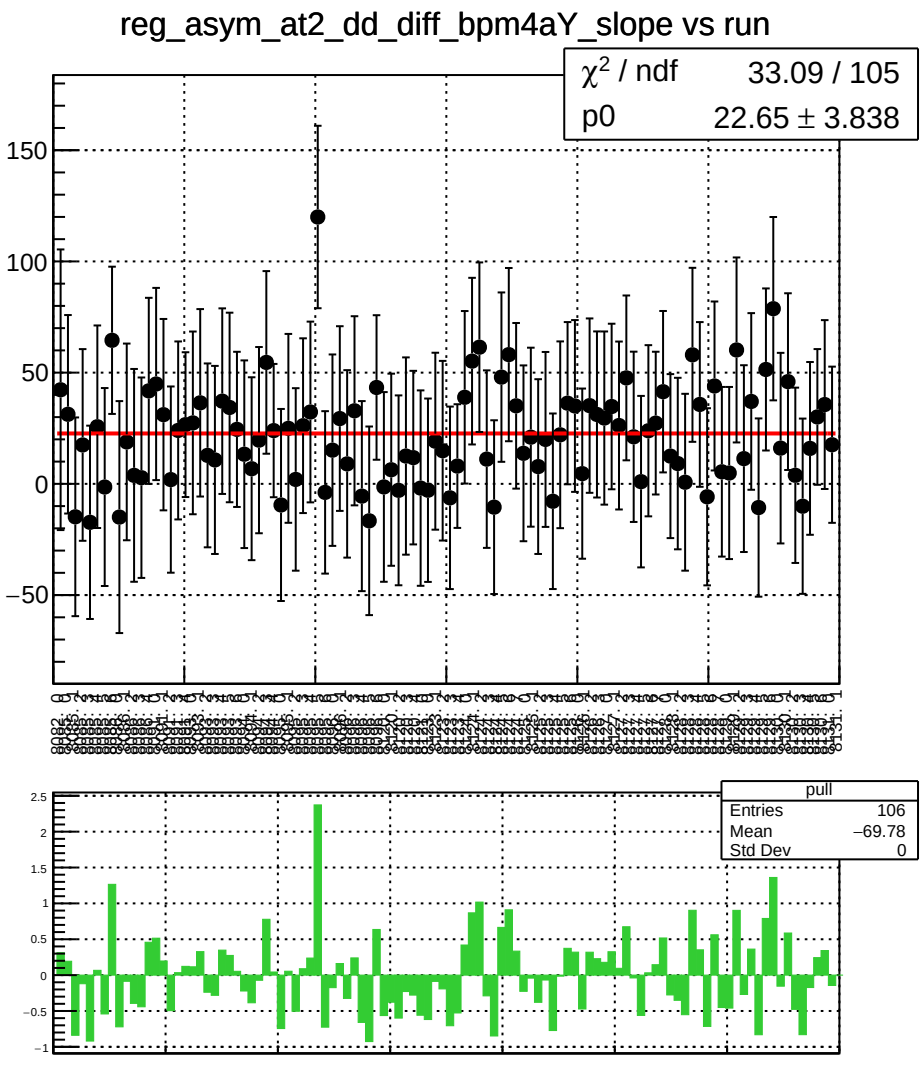

pull1D
Entries 106
Mean 0.0002088
Std Dev 0.1766
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

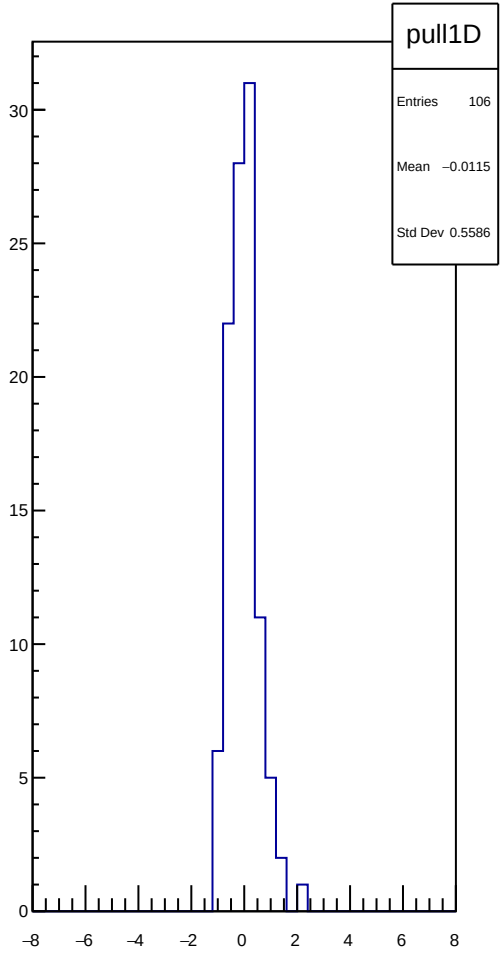

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 151.7 / 105
p0 −239.6 ± 0.5988
−230
−240
−250
−260
−270
pull
Entries 106
Mean −207.4
Std Dev 0
1
0
−1
−2
−3

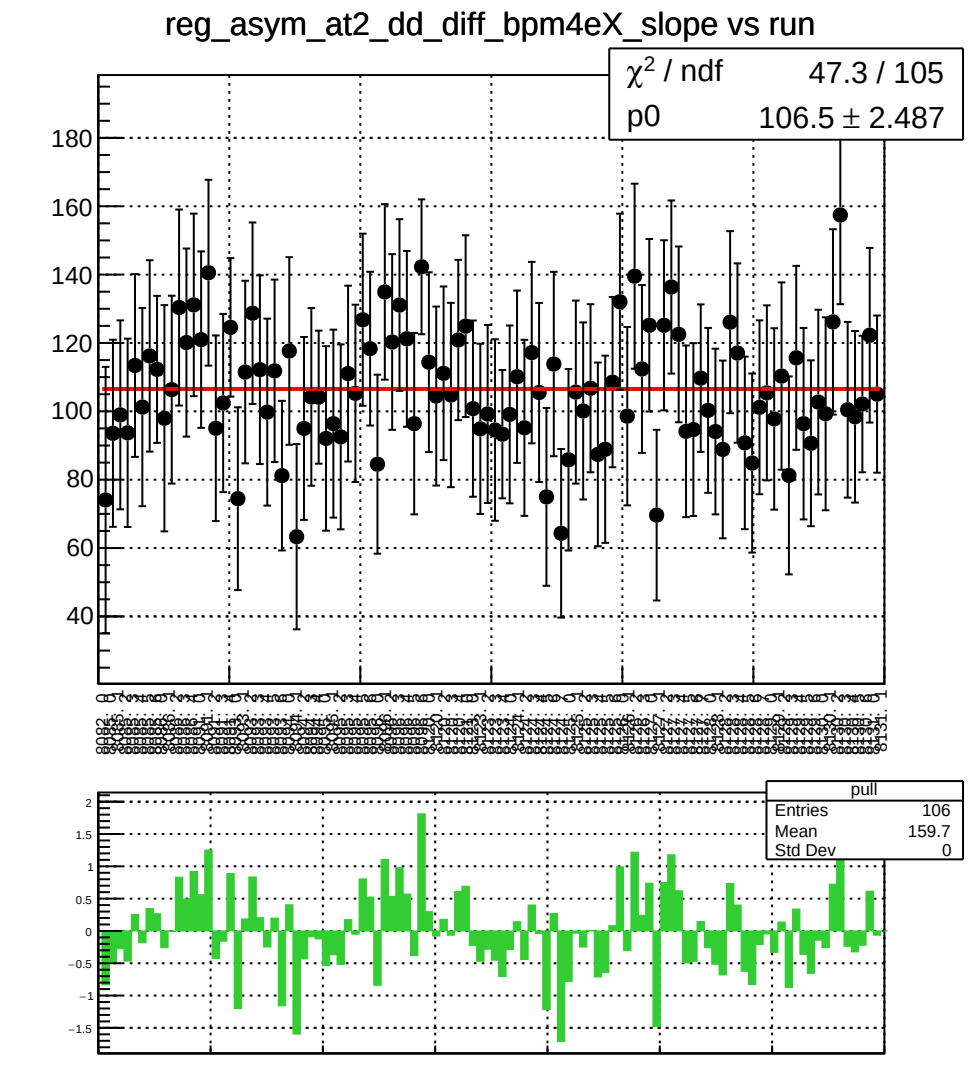

pull1D
Entries 106
Mean −0.1131
Std Dev 1.191
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

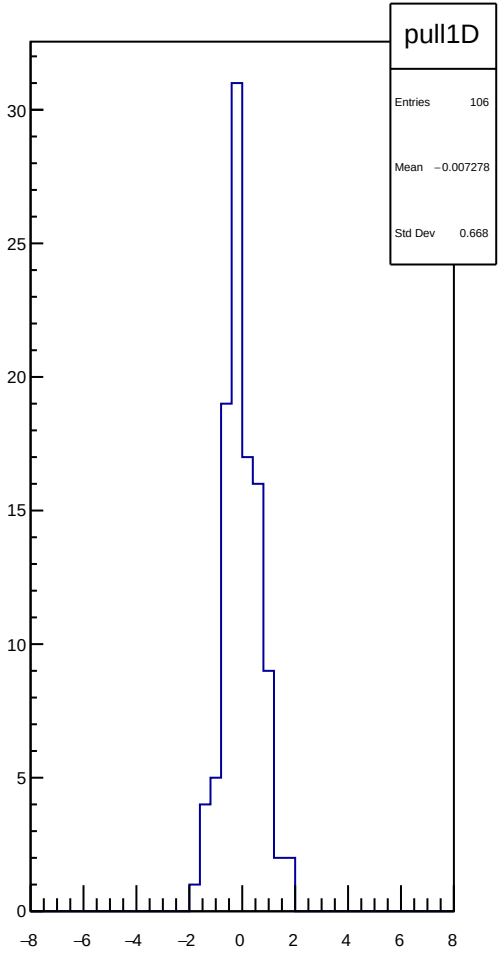

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 46.27 / 105
p0 −26.37 ± 2.618
pull
Entries 106
Mean 55.63
Std Dev 22.34

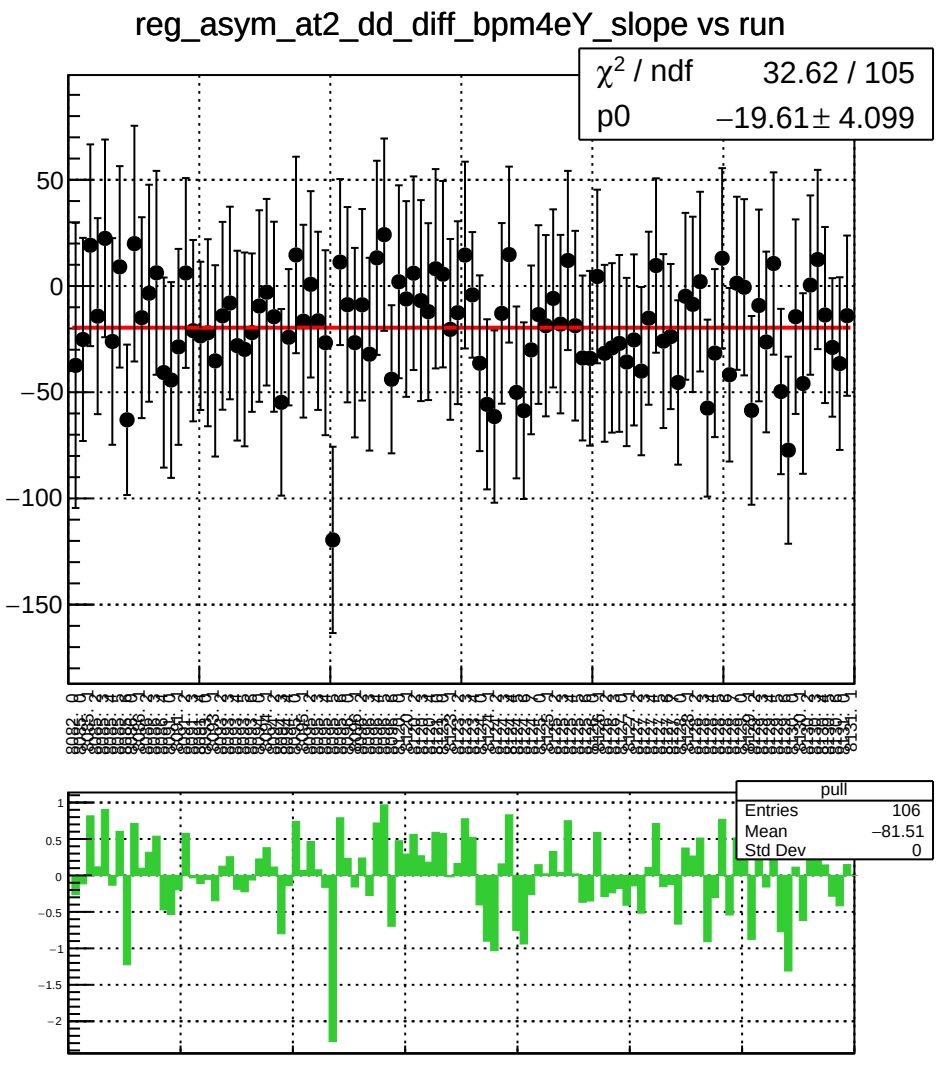

pull1D
Entries 106
Mean 0.008364
Std Dev 0.6606

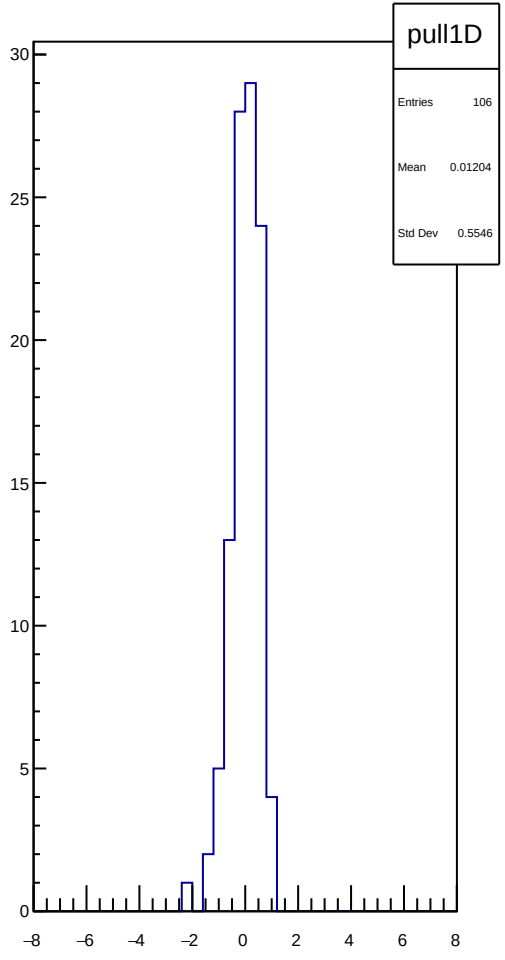

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 33.09 / 105
p0 22.65 ± 3.838
150
100
50
0
−50
pull
Entries 106
Mean −69.78
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1

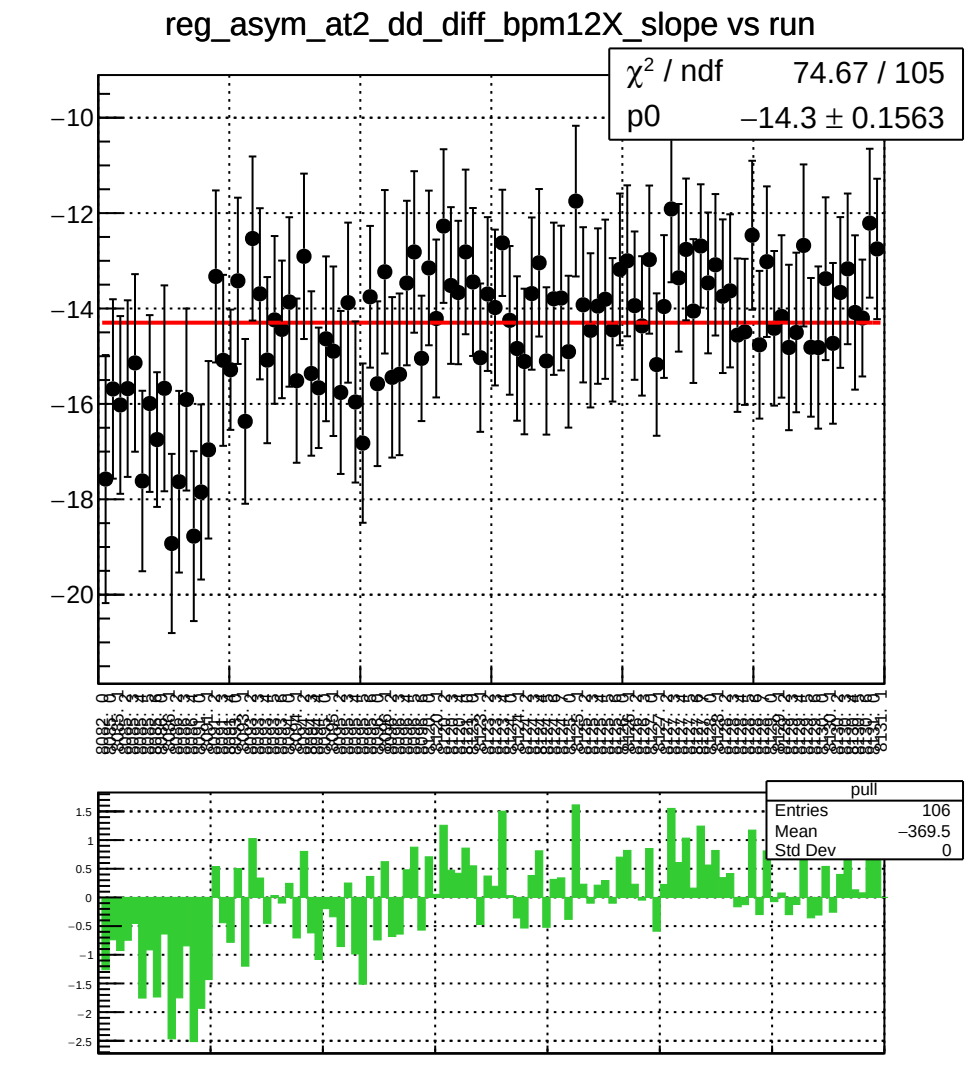

pull1D
Entries 106
Mean −0.0115
Std Dev 0.5586
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

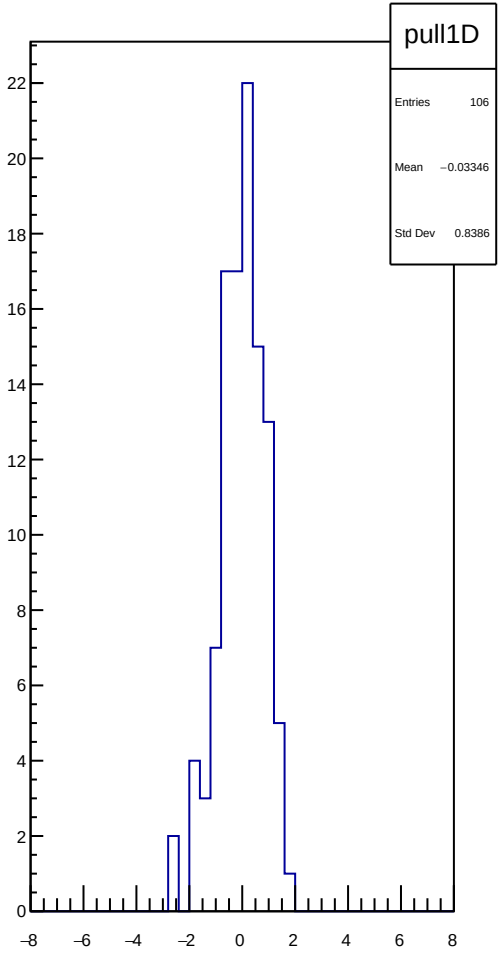

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 47.3 / 105
p0 106.5 ± 2.487
pull
Entries 106
Mean 159.7
Std Dev 0

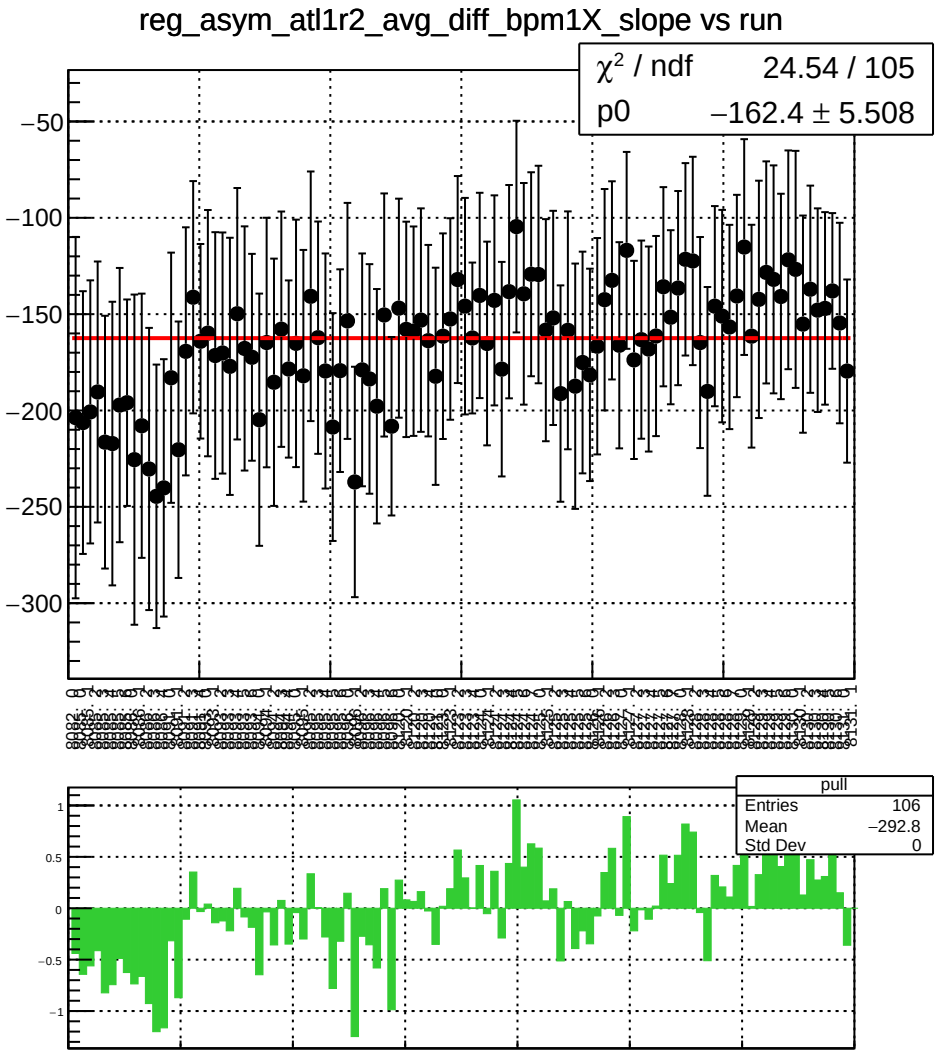

pull1D
Entries 106
Mean −0.007278
Std Dev 0.668

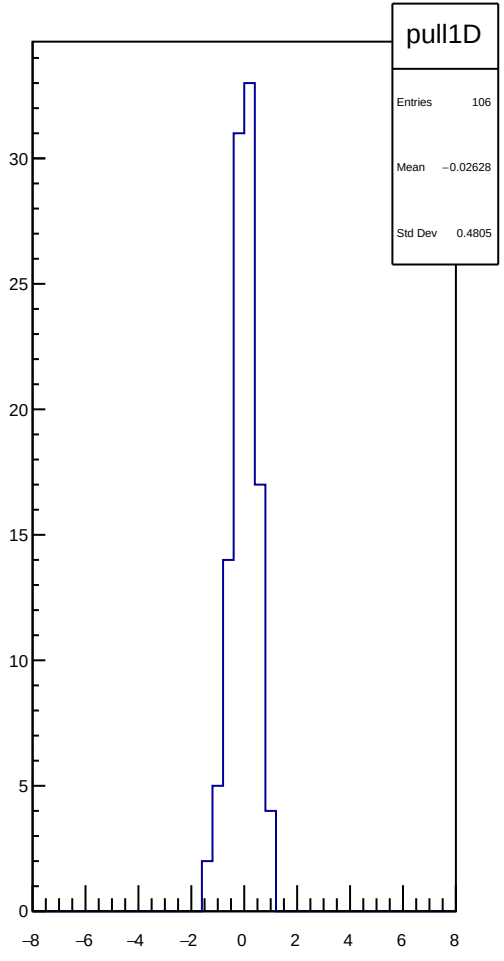

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 32.62 / 105
p0 −19.61 ± 4.099
50
0
−50
−100
−150
pull
Entries 106
Mean −81.51
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

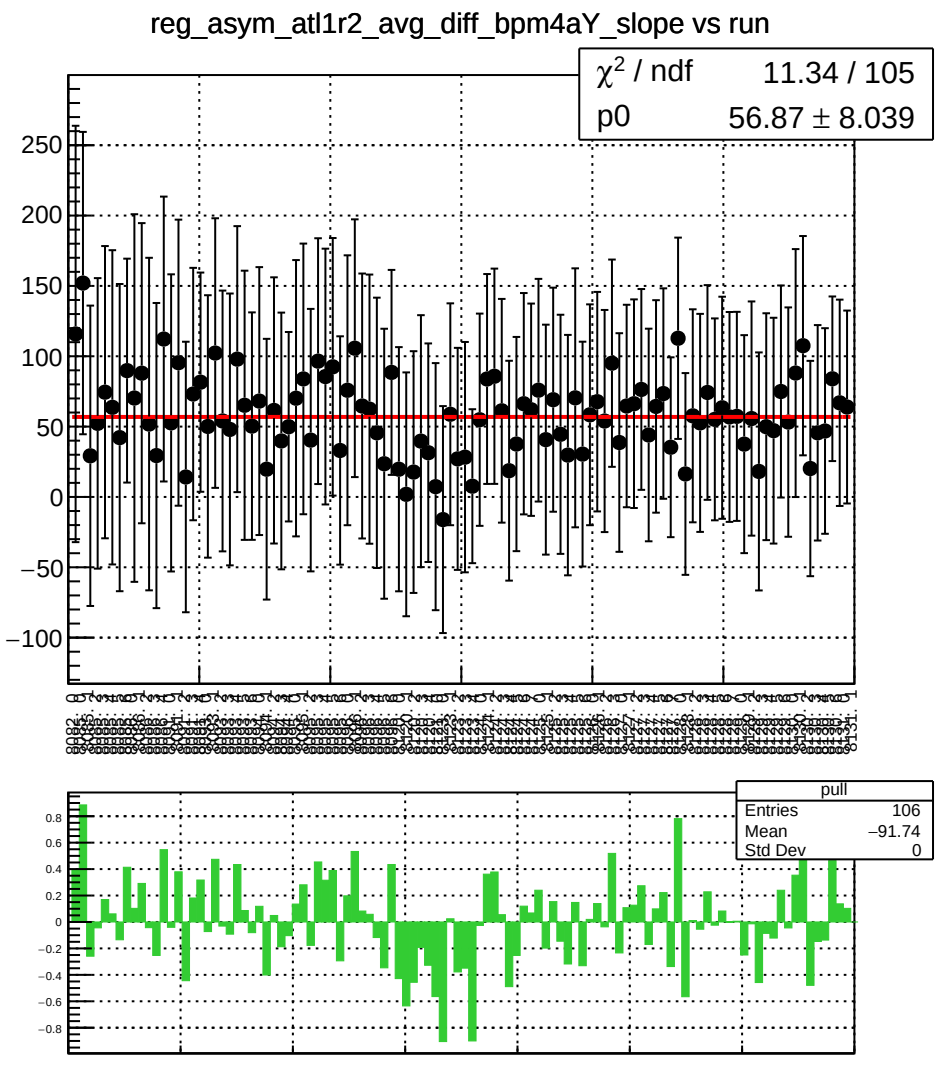

pull1D
Entries 106
Mean 0.01204
Std Dev 0.5546
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

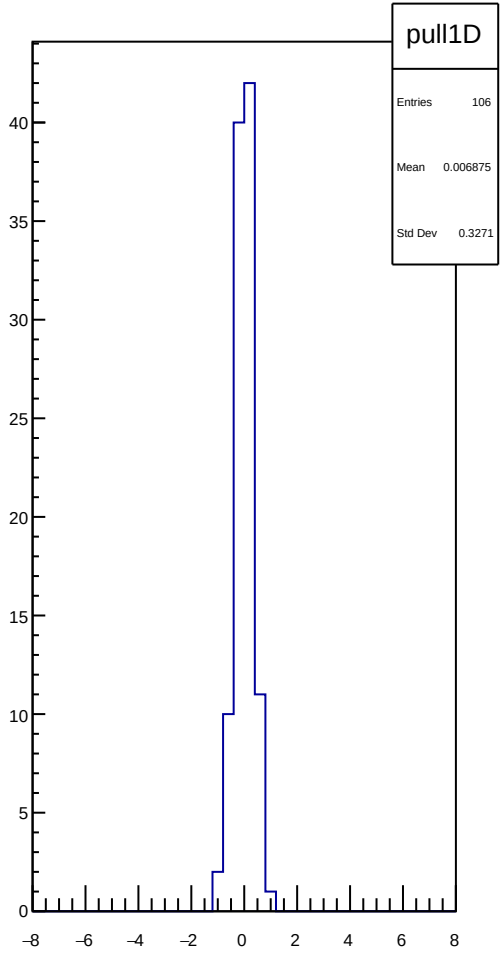

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 74.67 / 105
p0 −14.3 ± 0.1563
−10
−12
−14
−16
−18
−20
pull
Entries 106
Mean −369.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

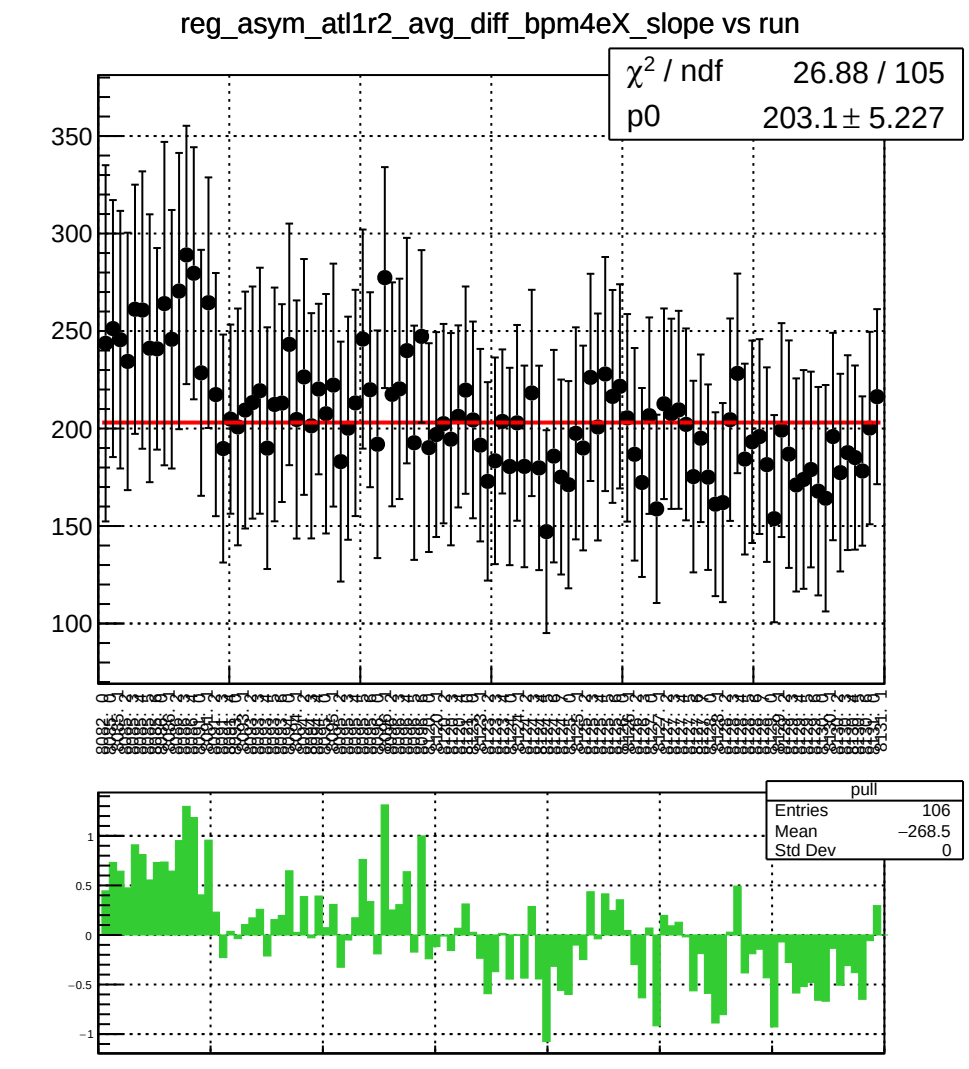

pull1D
Entries 106
Mean −0.03346
Std Dev 0.8386
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

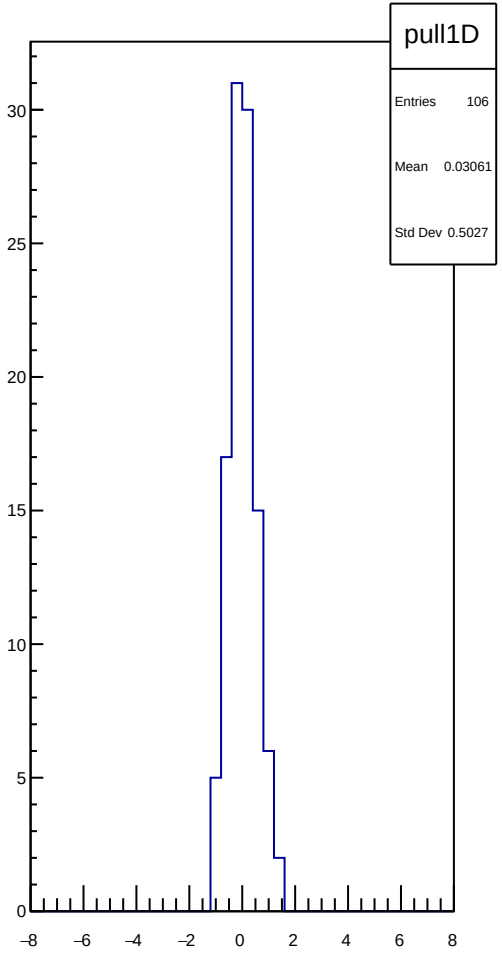

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 24.54 / 105
p0 −162.4 ± 5.508
−50
−100
−150
−200
−250
−300
pull
Entries 106
Mean −292.8
Std Dev 0
1
0.5
0
−0.5
−1

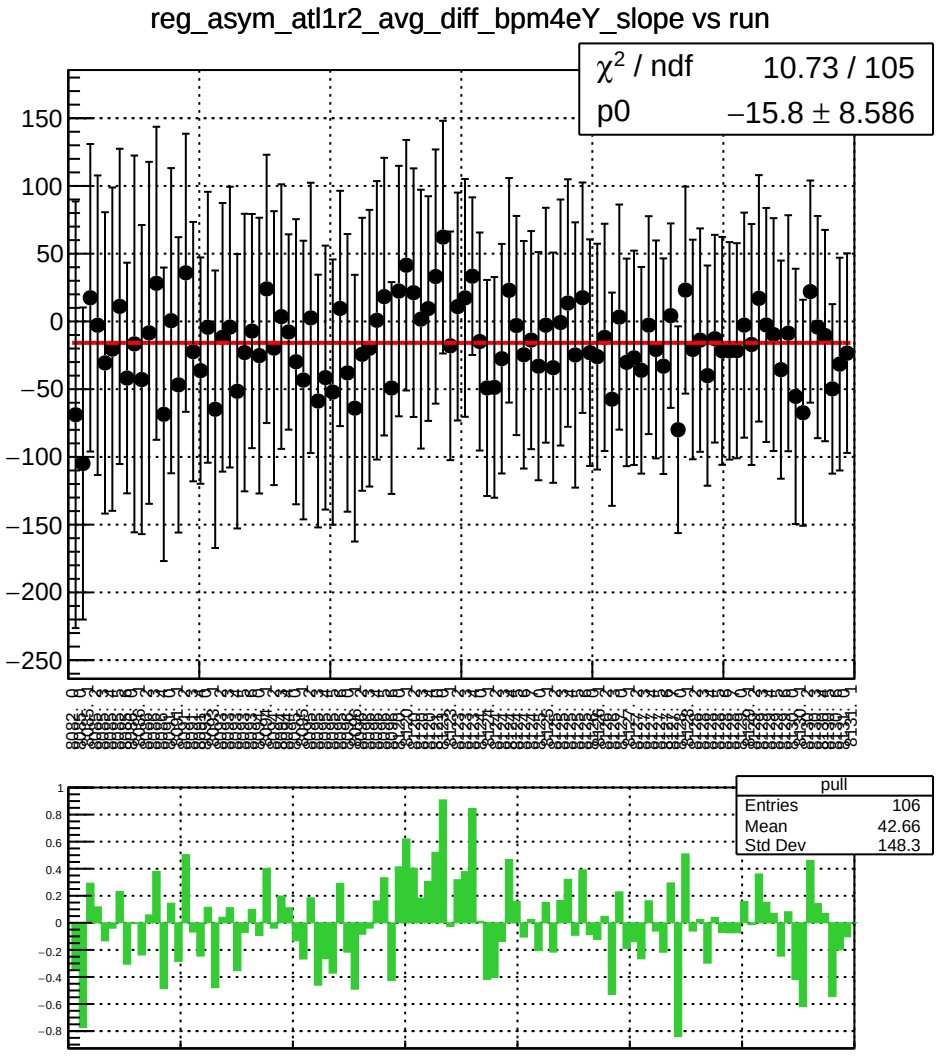

pull1D
Entries 106
Mean −0.02628
Std Dev 0.4805
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

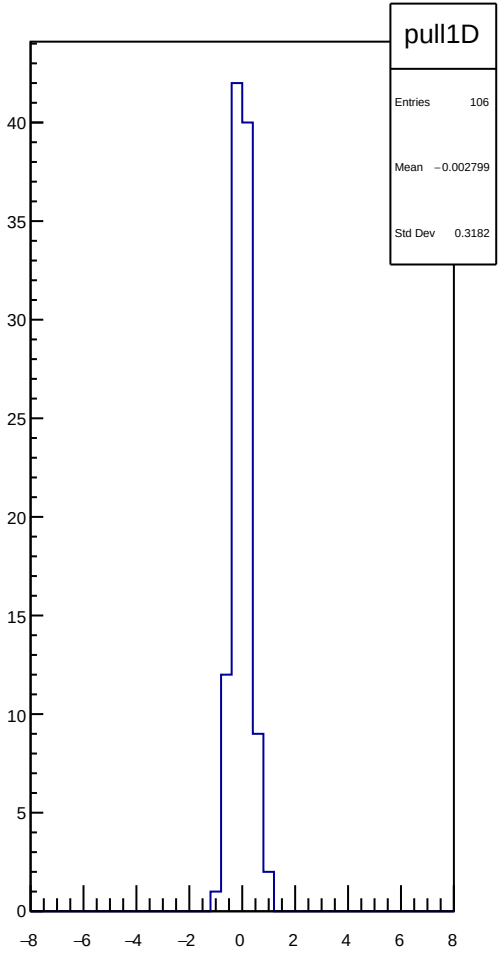

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.34 / 105
p0 56.87 ± 8.039
250
200
150
100
50
0
−50
−100
pull
Entries 106
Mean −91.74
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

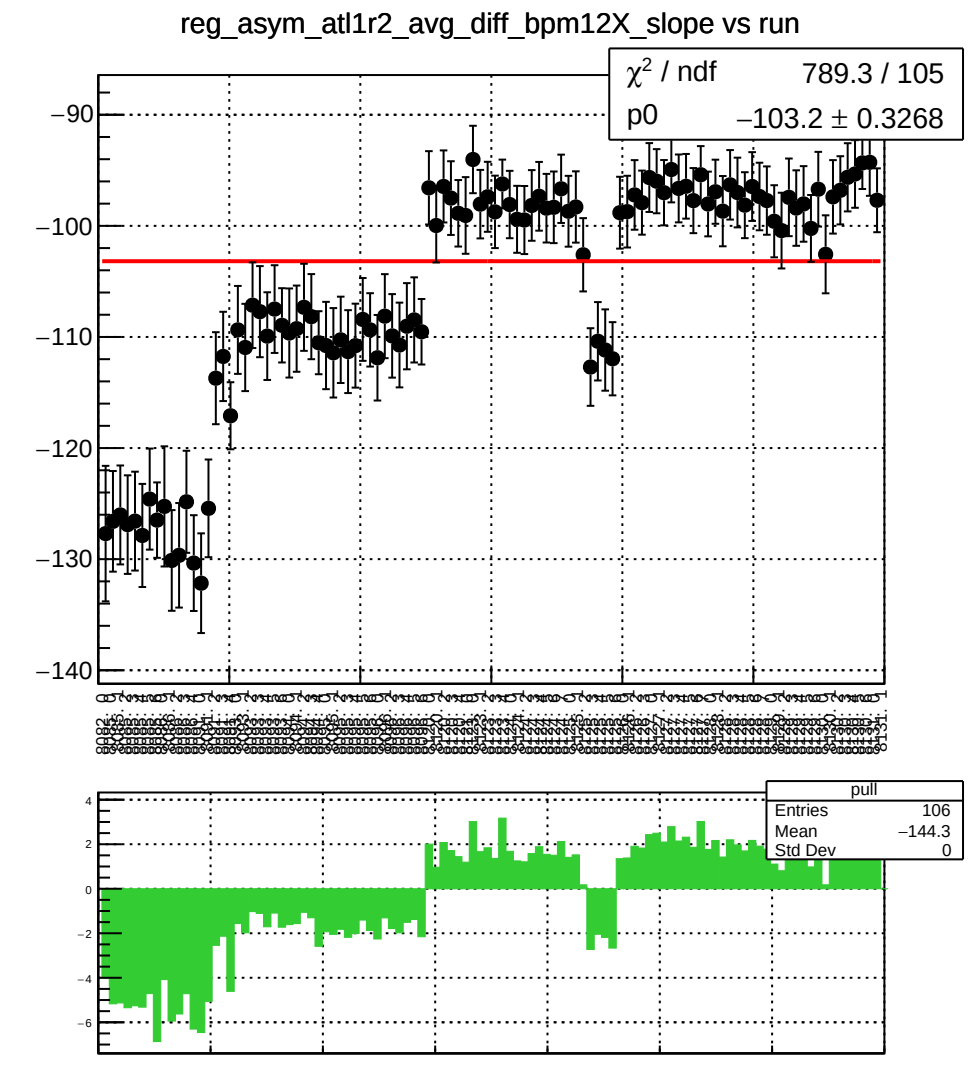

pull1D
Entries 106
Mean 0.006875
Std Dev 0.3271
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

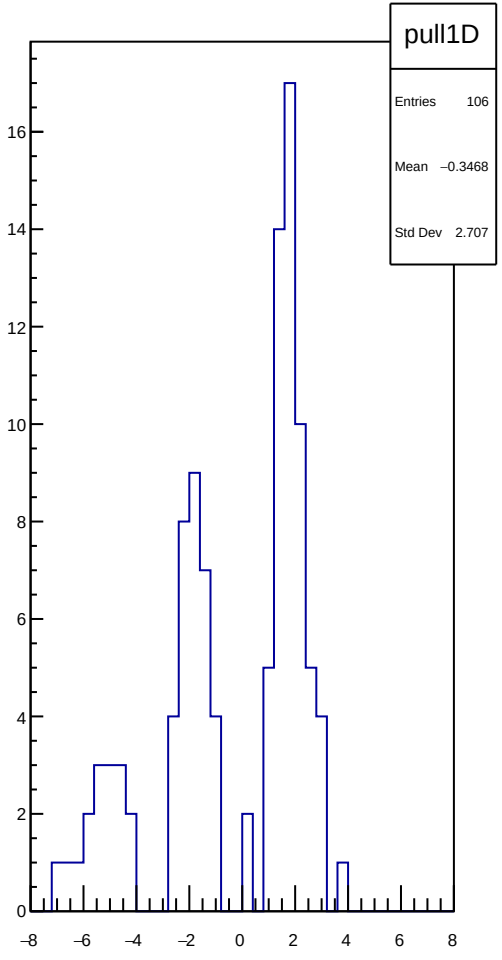

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 26.88 / 105
p0 203.1 ± 5.227
350
300
250
200
150
100
pull
Entries 106
Mean −268.5
Std Dev 0
1
0.5
0
−0.5
−1

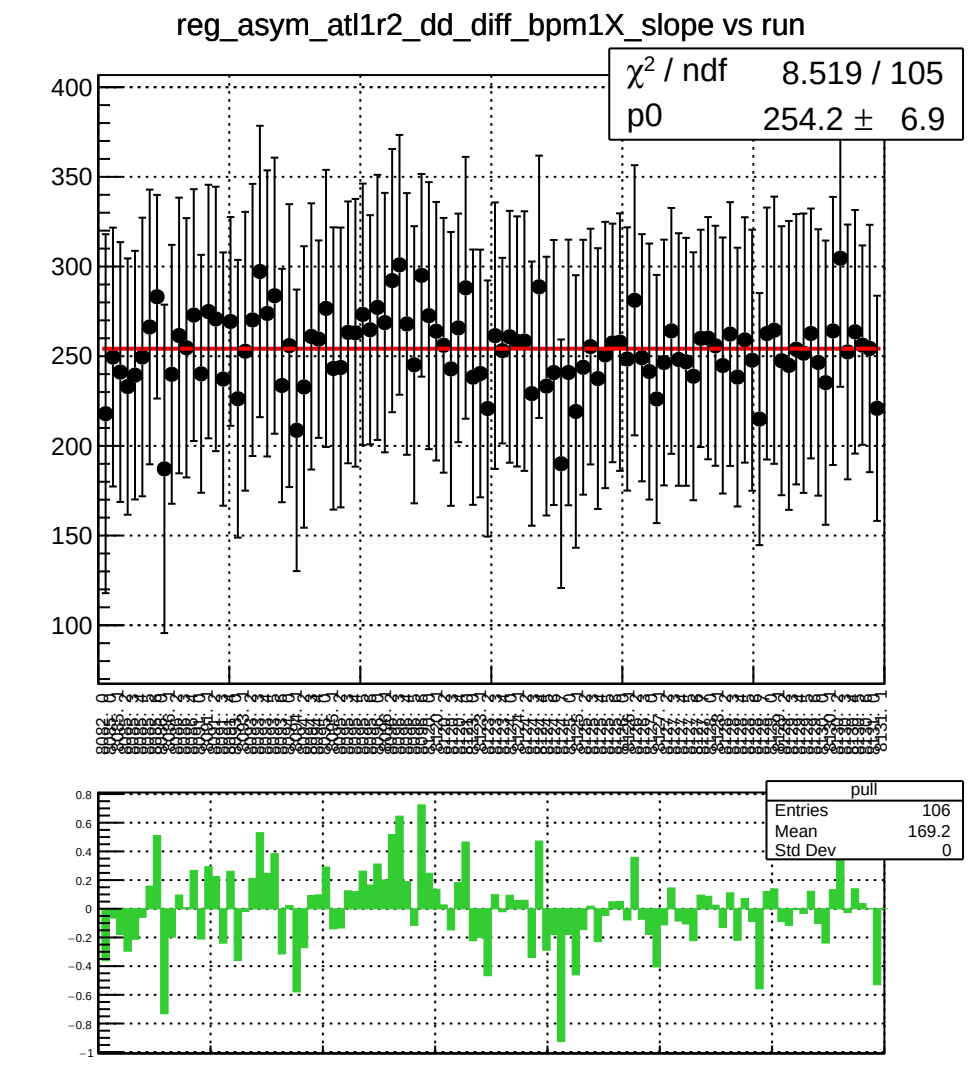

pull1D
Entries 106
Mean 0.03061
Std Dev 0.5027
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

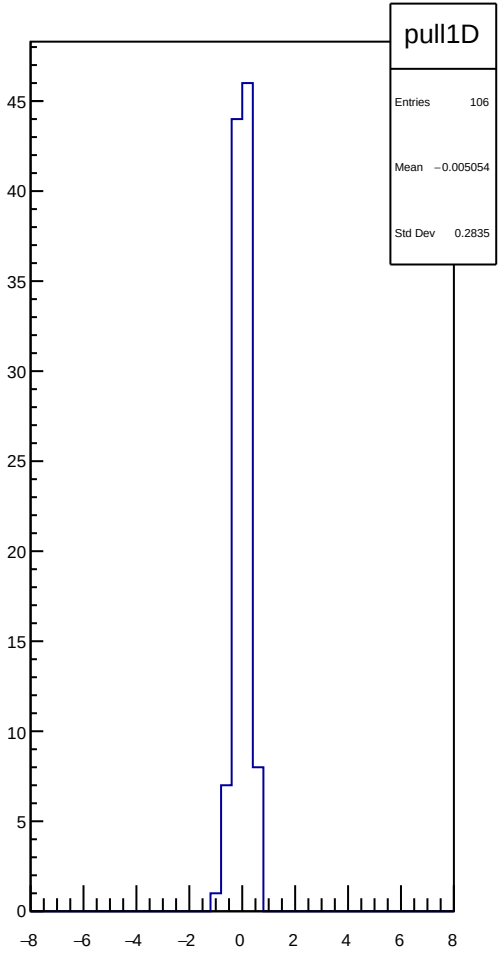

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 10.73 / 105
p0 −15.8 ± 8.586
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 106
Mean 42.66
Std Dev 148.3
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

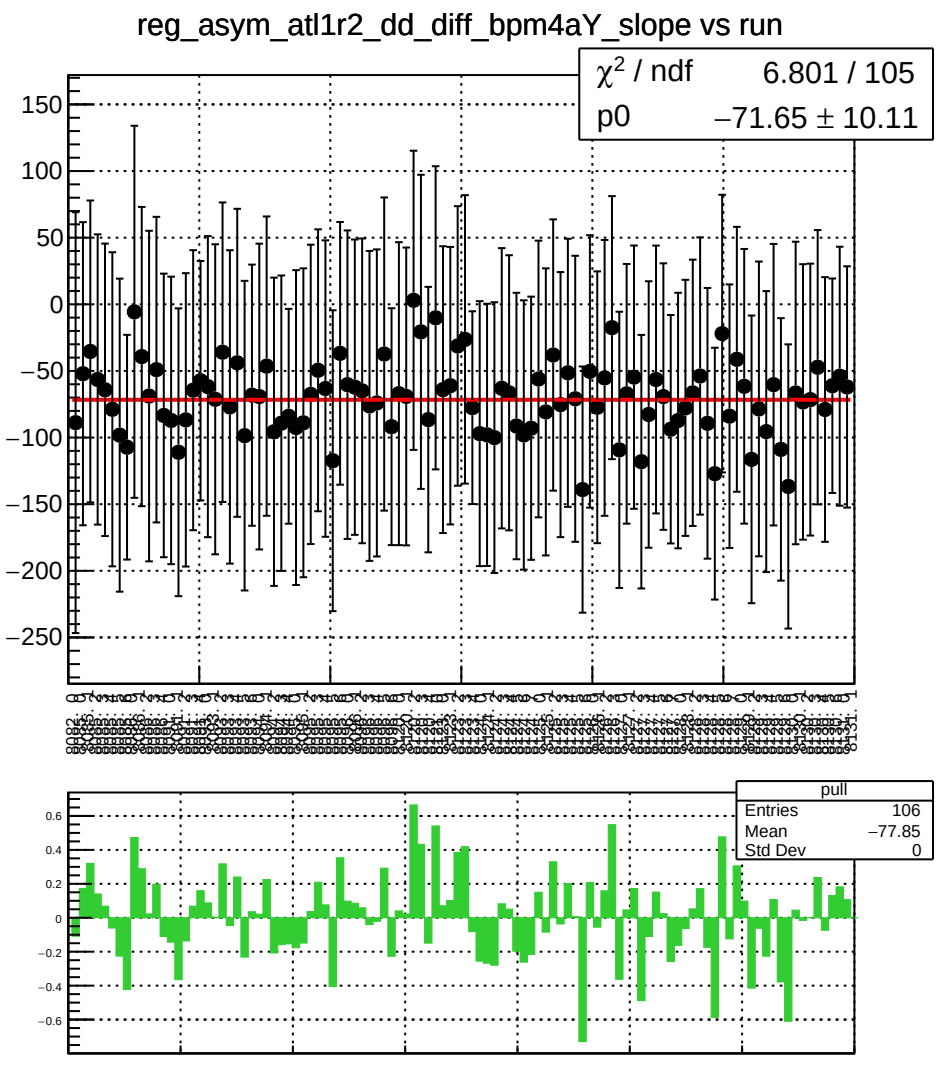

pull1D
Entries 106
Mean −0.002799
Std Dev 0.3182
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

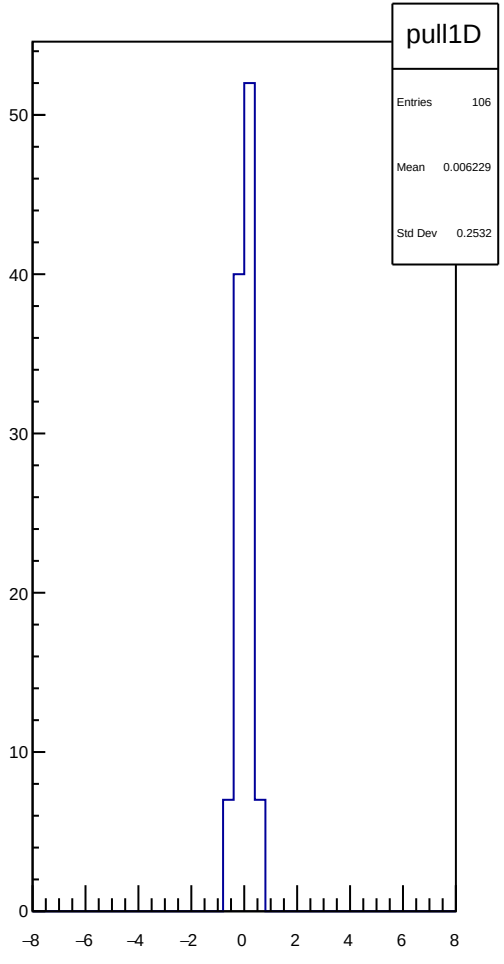

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 789.3 / 105
p0 −103.2 ± 0.3268
−90
−100
−110
−120
−130
−140
pull
Entries 106
Mean −144.3
Std Dev 0
4
2
0
−2
−4
−6

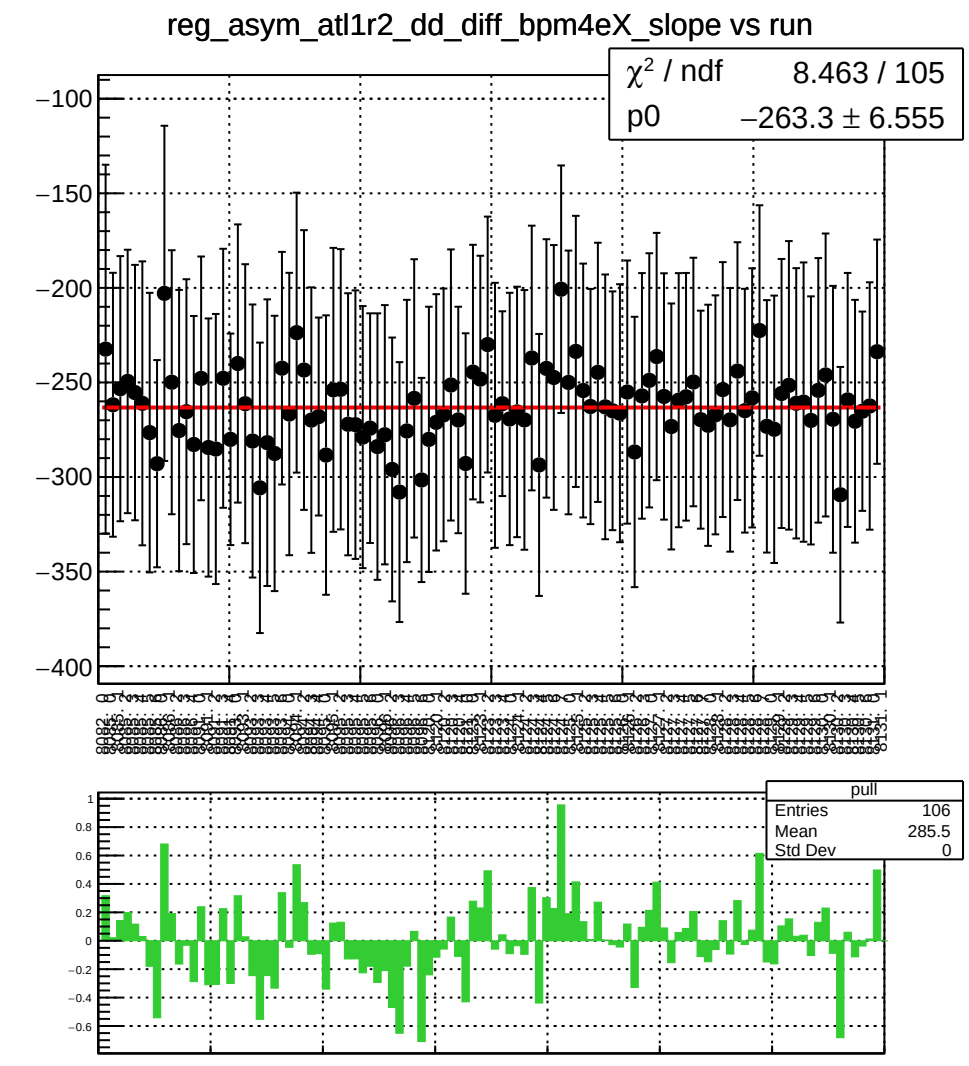

pull1D
Entries 106
Mean −0.3468
Std Dev 2.707
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

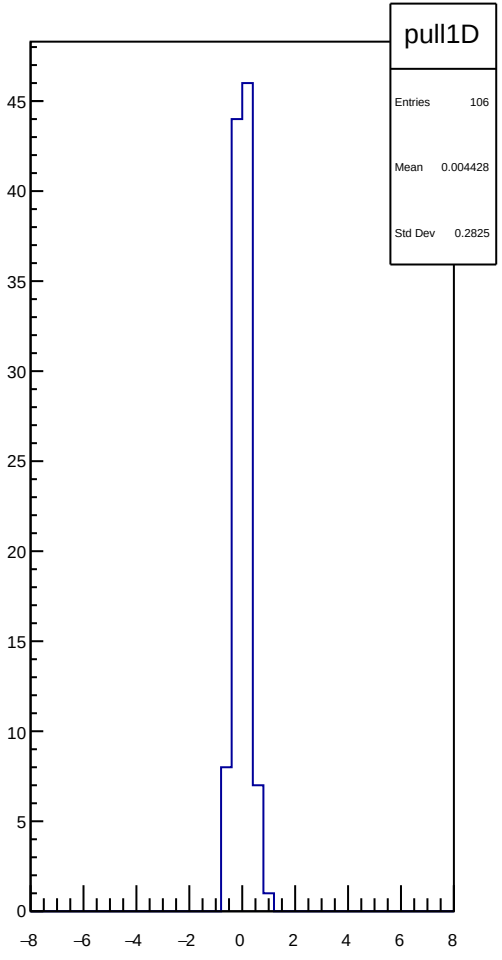

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 8.519 / 105
p0 254.2 ± 6.9
pull
Entries 106
Mean 169.2
Std Dev 0

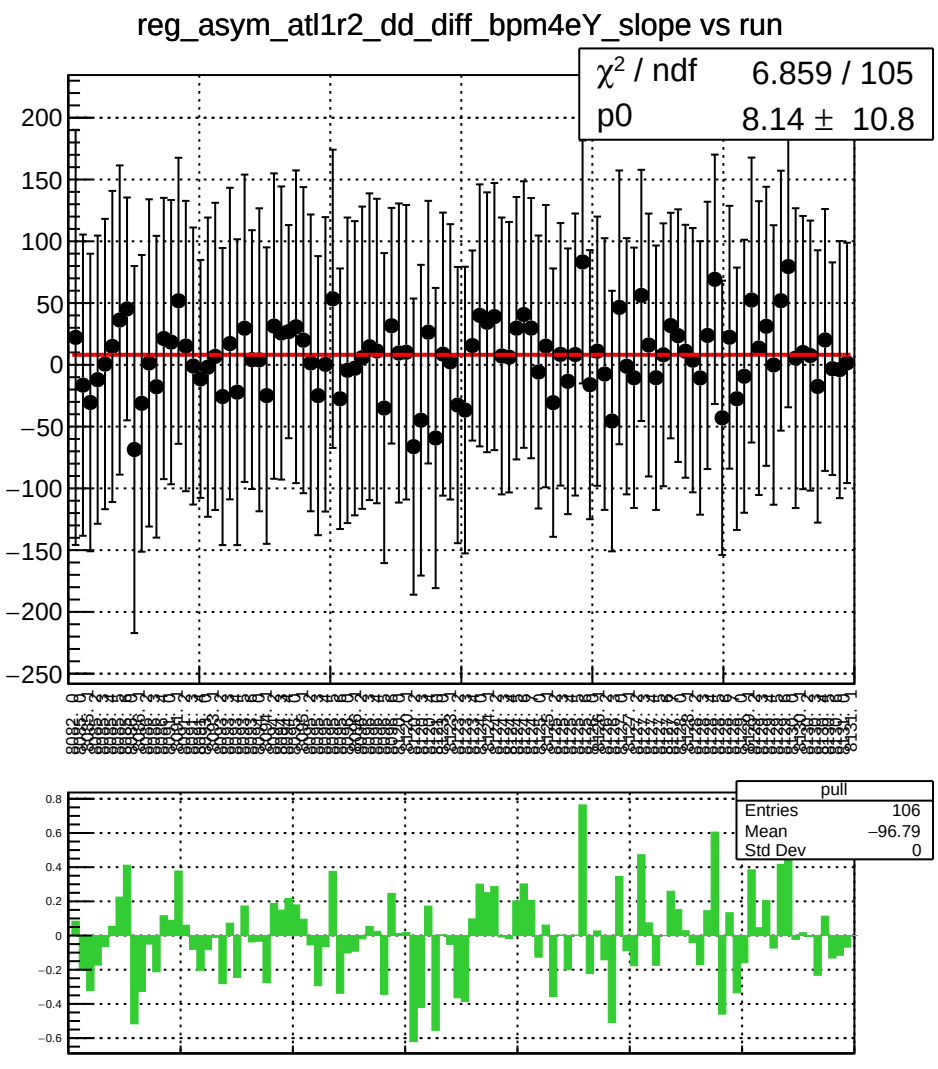

pull1D
Entries 106
Mean −0.005054
Std Dev 0.2835

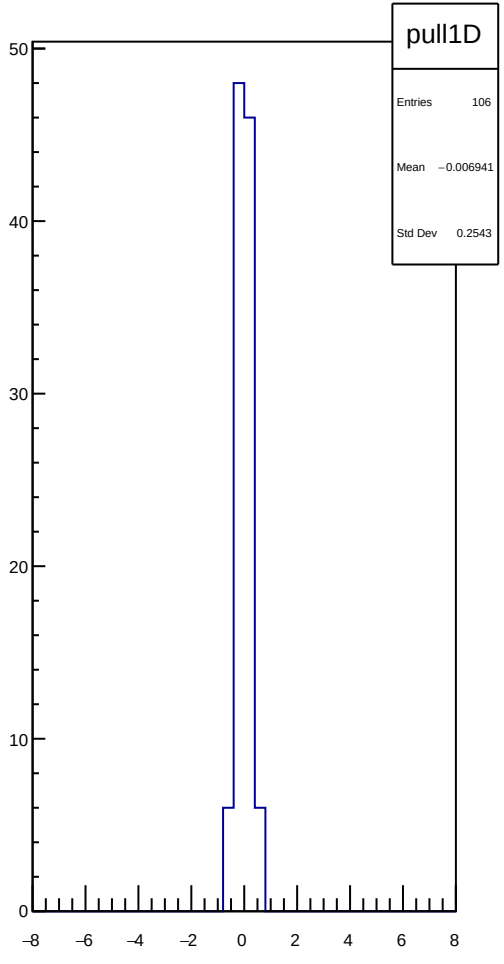

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.801 / 105
p0 −71.65 ± 10.11
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 106
Mean −77.85
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

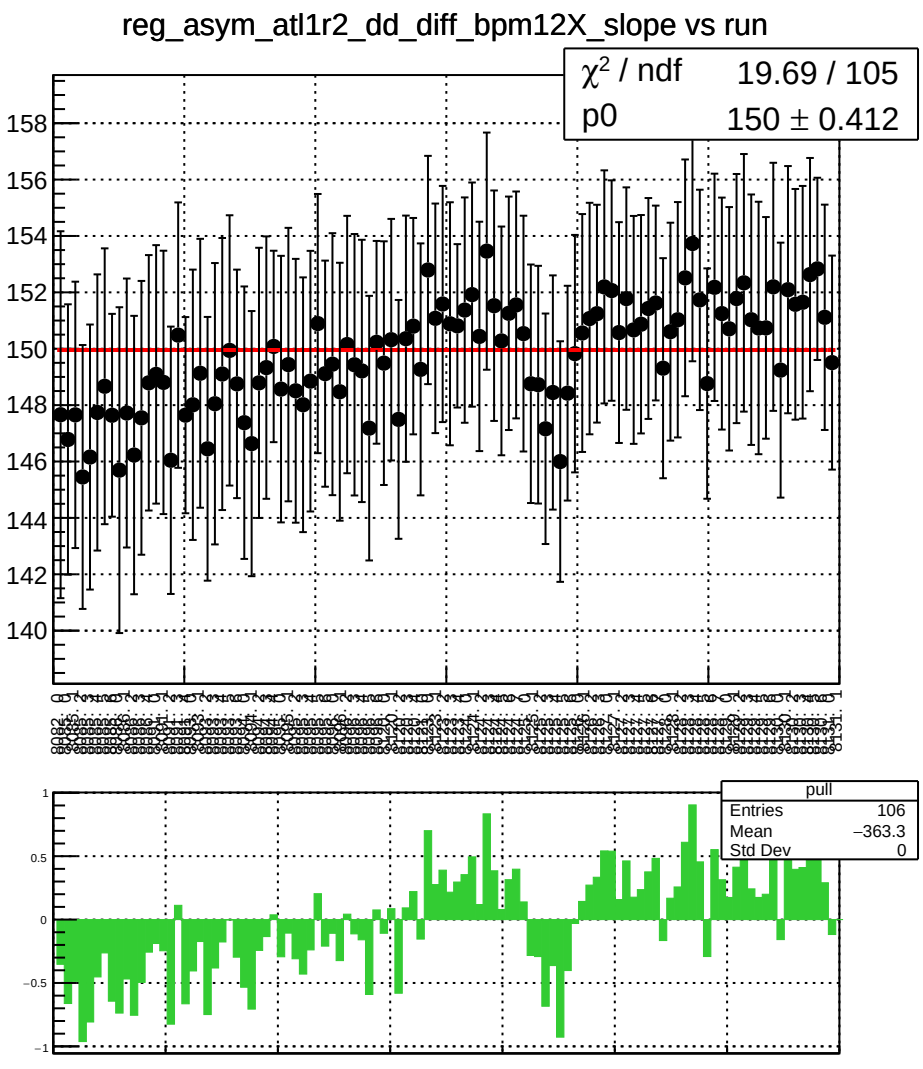

pull1D
Entries 106
Mean 0.006229
Std Dev 0.2532
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

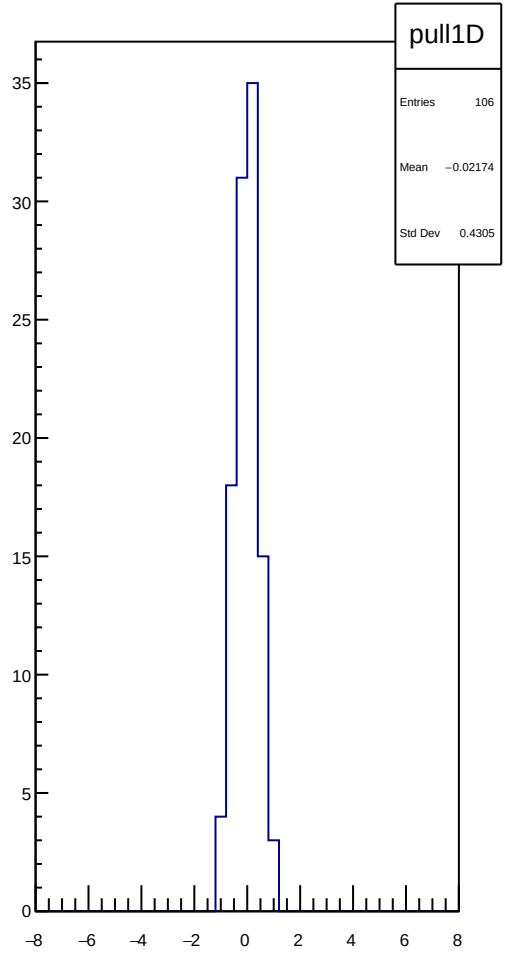

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 8.463 / 105
p0 −263.3 ± 6.555
pull
Entries 106
Mean 285.5
Std Dev 0

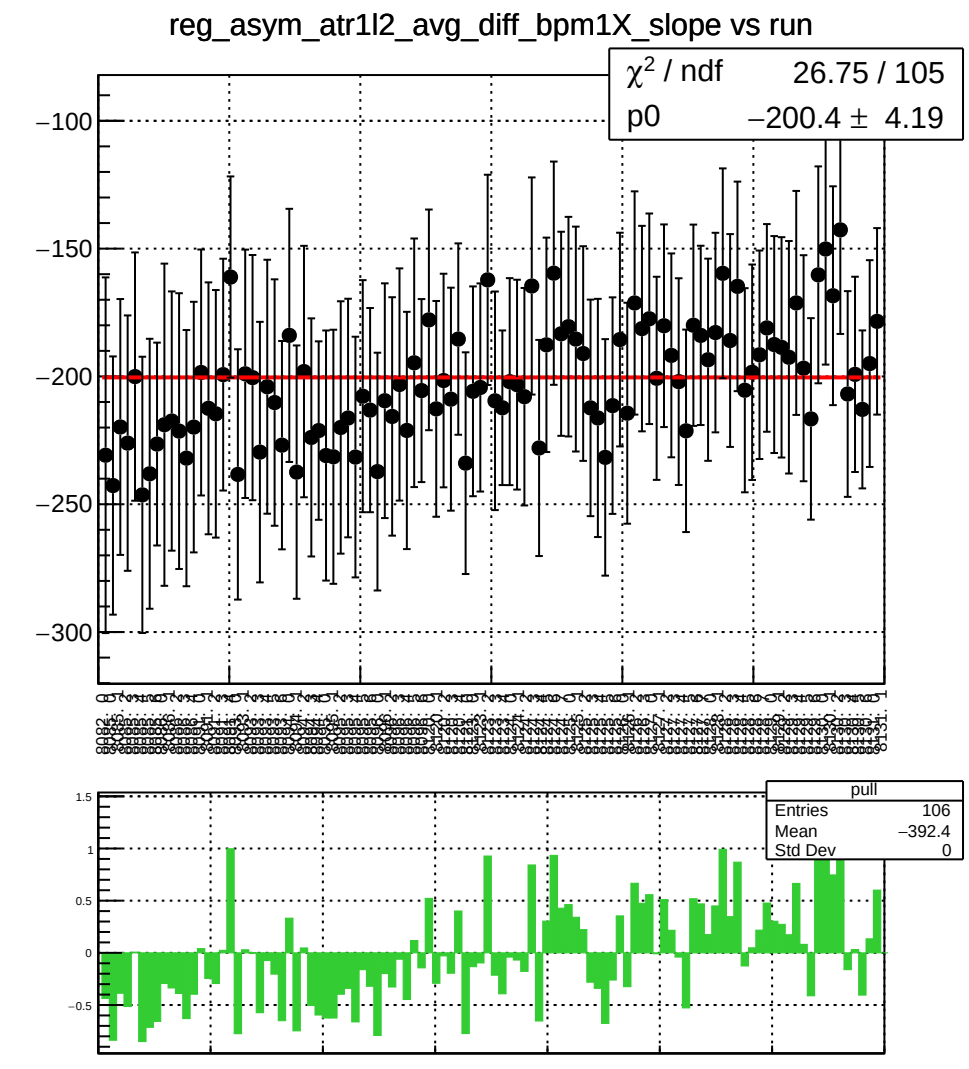

pull1D
Entries 106
Mean 0.004428
Std Dev 0.2825

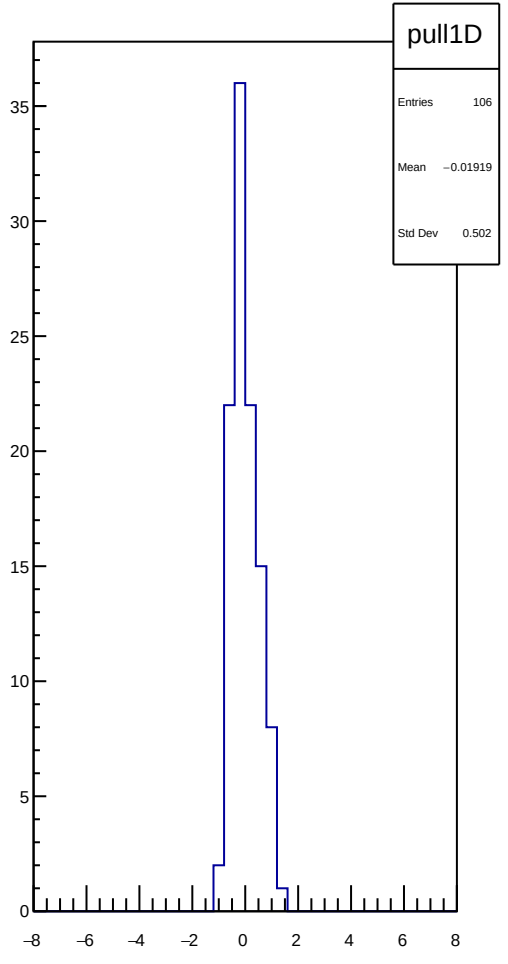

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.859 / 105
p0 8.14 ± 10.8
pull
Entries 106
Mean −96.79
Std Dev 0

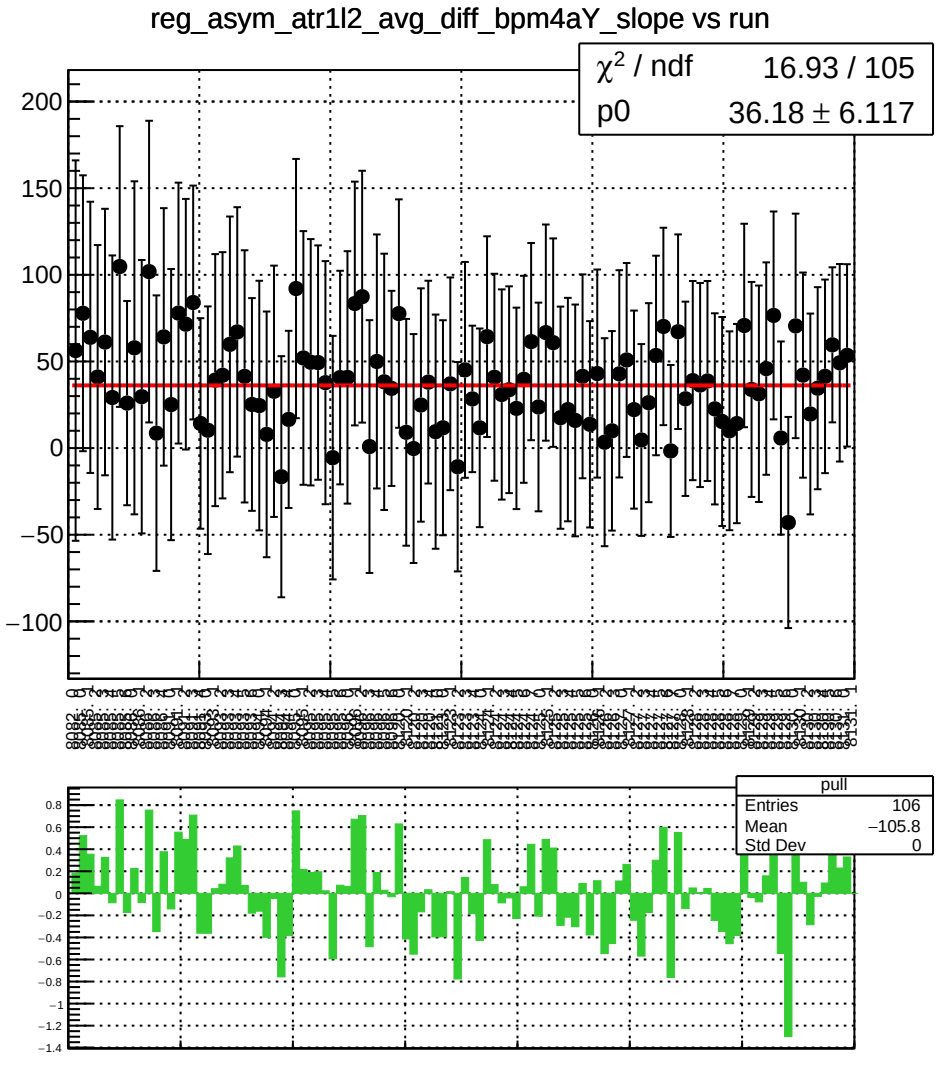

pull1D
Entries 106
Mean −0.006941
Std Dev 0.2543

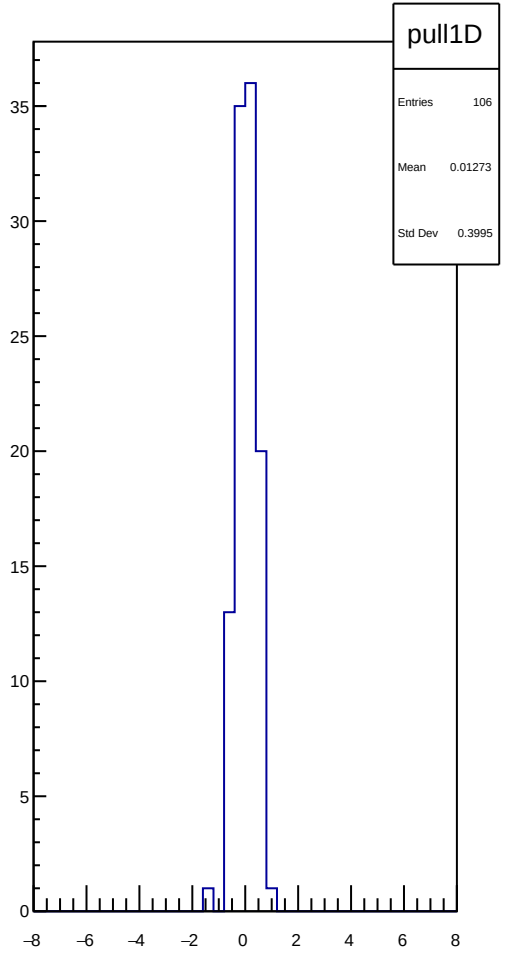

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 19.69 / 105
p0 150 ± 0.412
158
156
154
152
150
148
146
144
142
140
pull
Entries 106
Mean −363.3
Std Dev 0
1
0.5
0
−0.5
−1

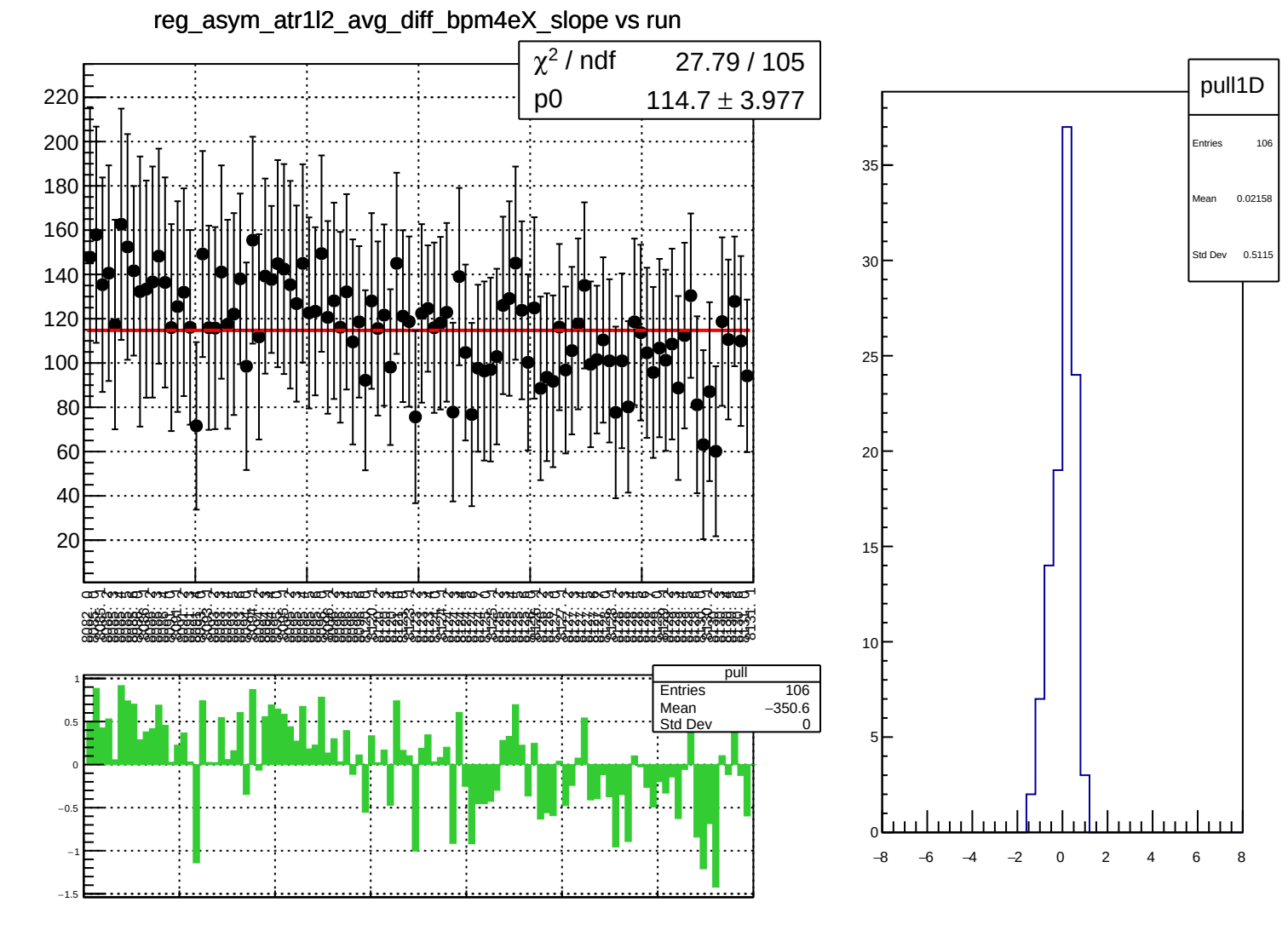

pull1D
Entries 106
Mean −0.02174
Std Dev 0.4305
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

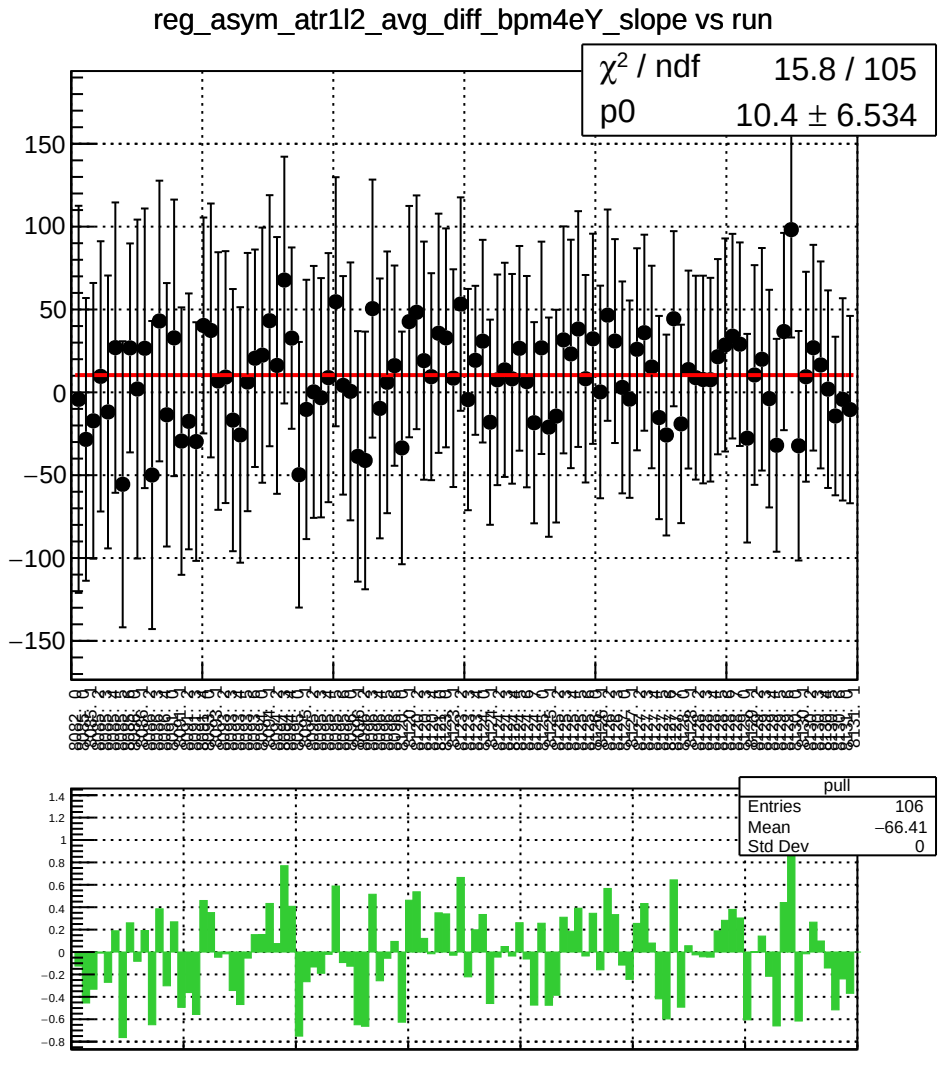

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 26.75 / 105
p0 −200.4 ± 4.19
−100
−150
−200
−250
−300
pull
Entries 106
Mean −392.4
Std Dev 0
1.5
1
0.5
0
−0.5

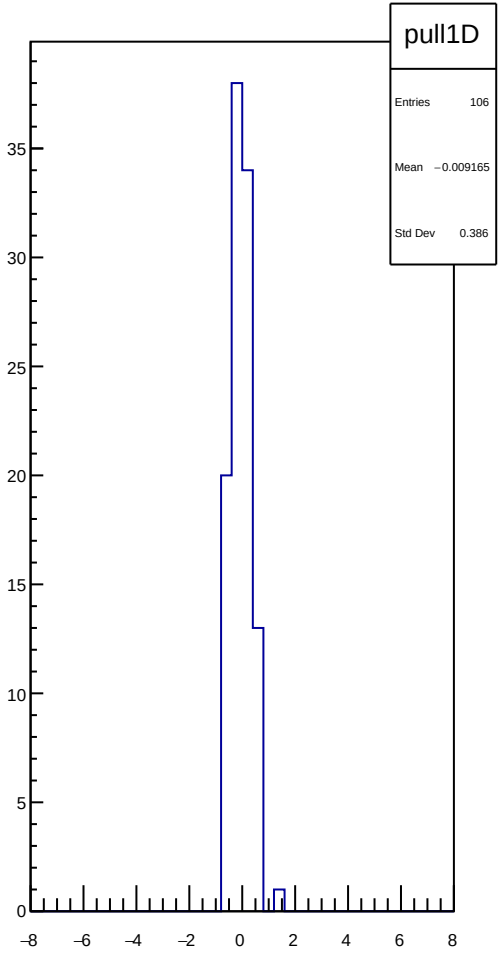

pull1D
Entries 106
Mean −0.01919
Std Dev 0.502
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

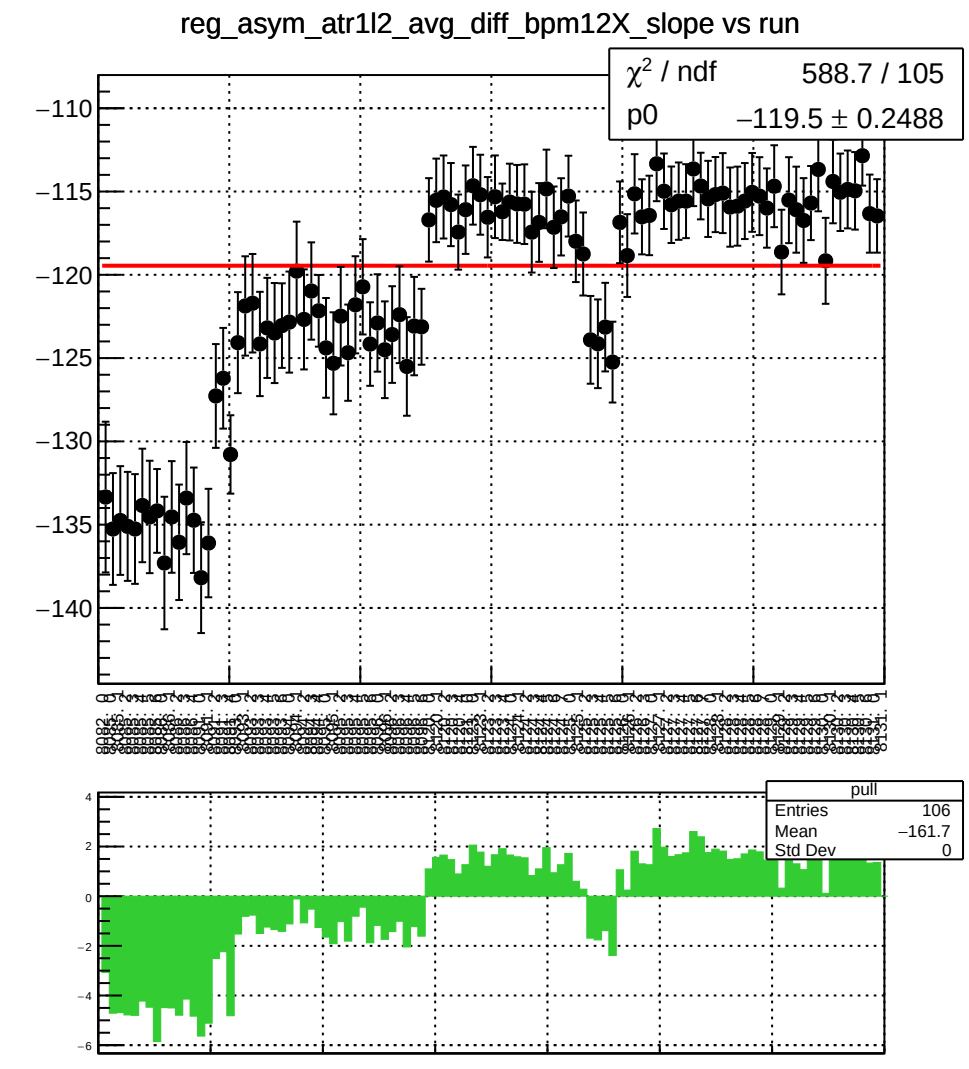

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 16.93 / 105
p0 36.18 ± 6.117
pull
Entries 106
Mean −105.8
Std Dev 0

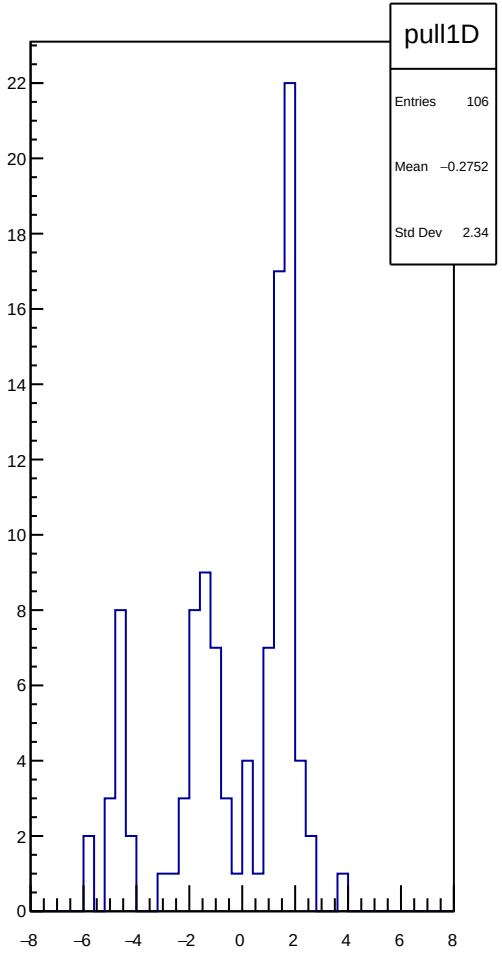

pull1D
Entries 106
Mean 0.01273
Std Dev 0.3995

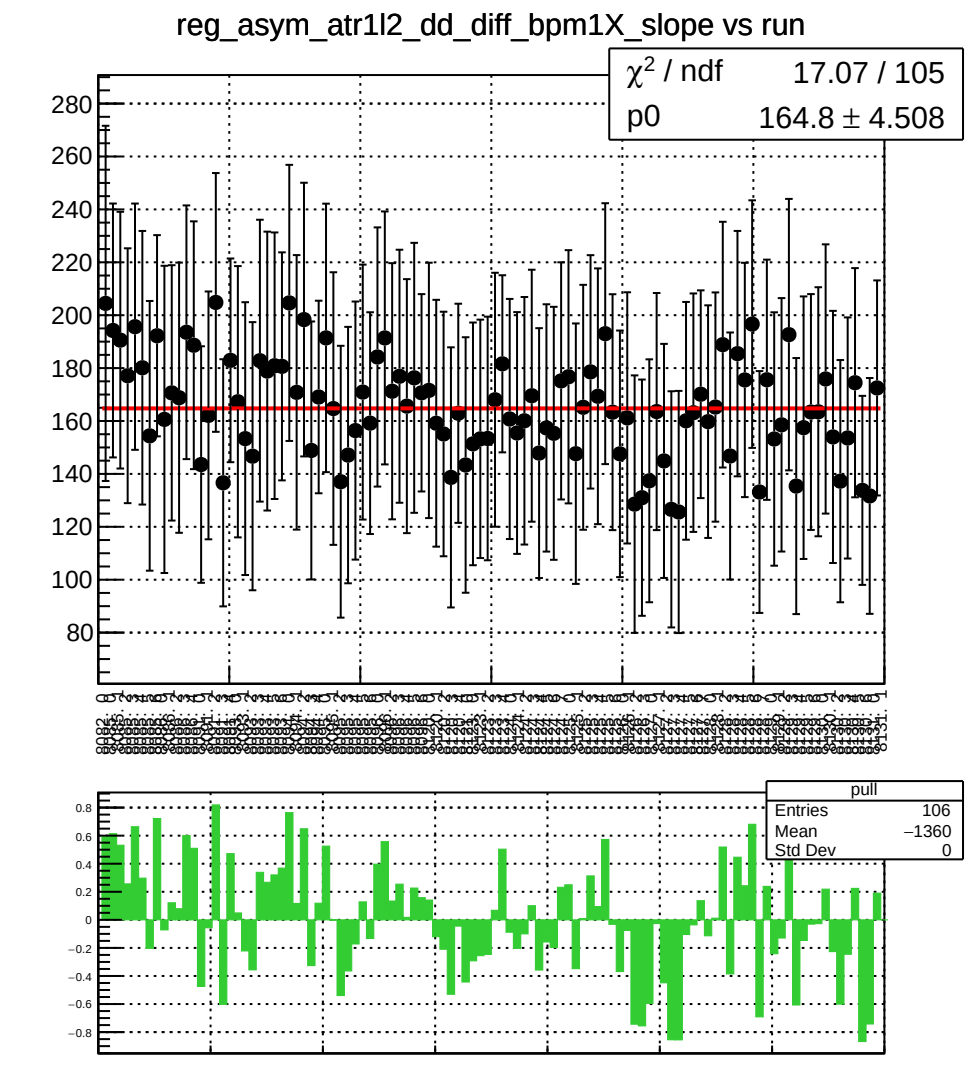

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 27.79 / 105
p0 114.7 ± 3.977
pull
Entries 106
Mean −350.6
Std Dev 0
pull1D
Entries 106
Mean 0.02158
Std Dev 0.5115

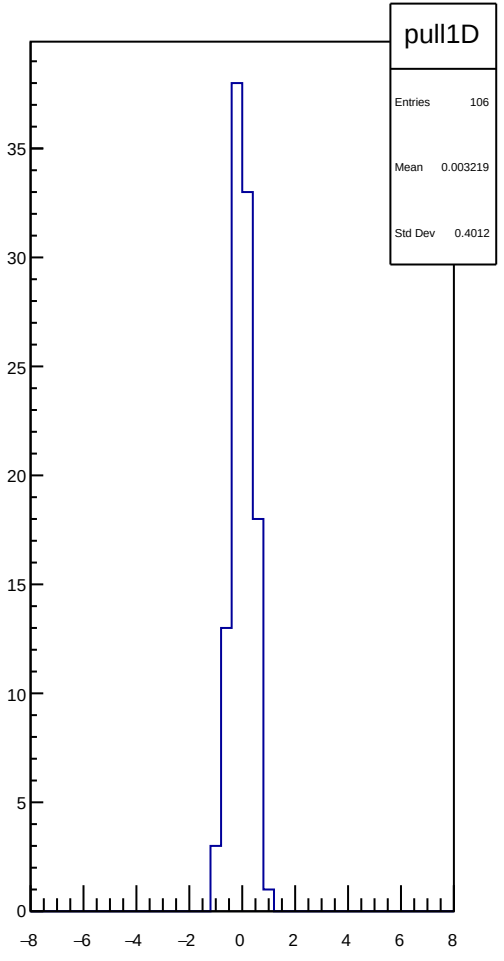

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 15.8 / 105
p0 10.4 ± 6.534
150
100
50
0
−50
−100
−150
pull
Entries 106
Mean −66.41
Std Dev 0
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

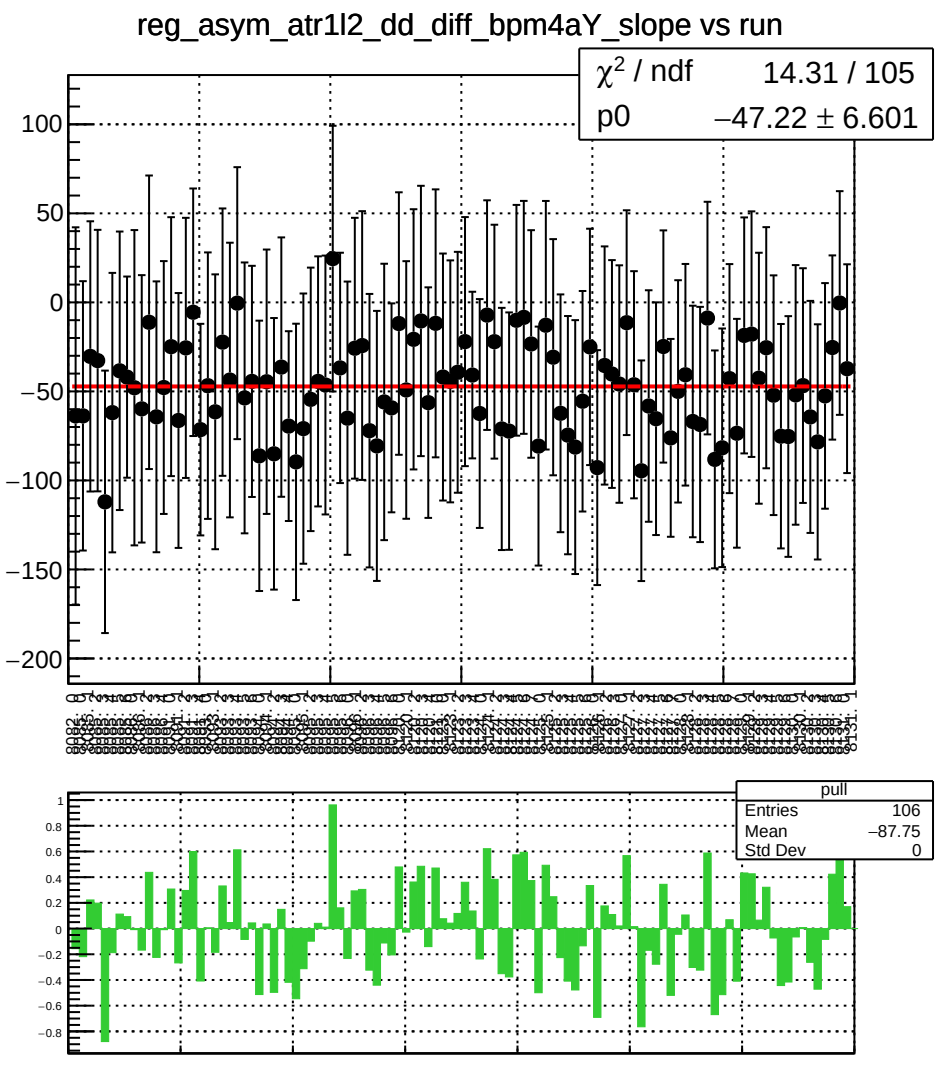

pull1D
Entries 106
Mean −0.009165
Std Dev 0.386
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

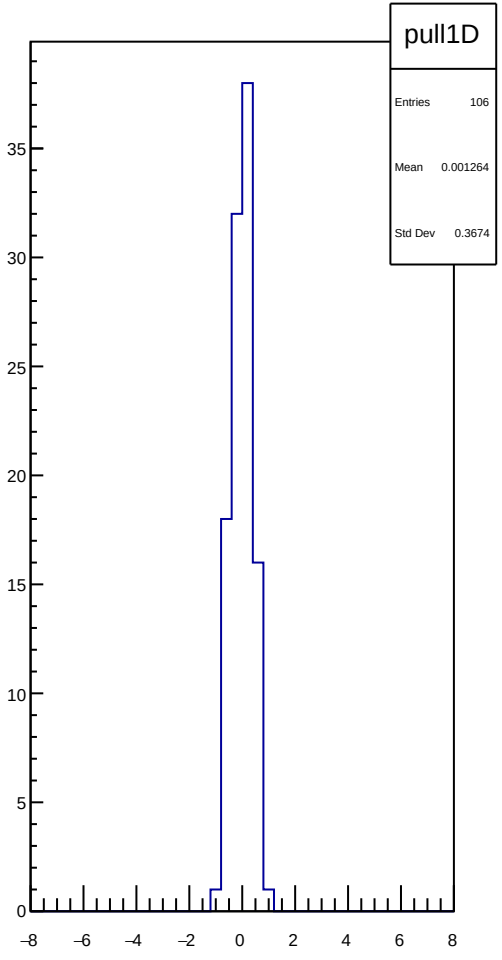

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 588.7 / 105
p0 −119.5 ± 0.2488
pull
Entries 106
Mean −161.7
Std Dev 0

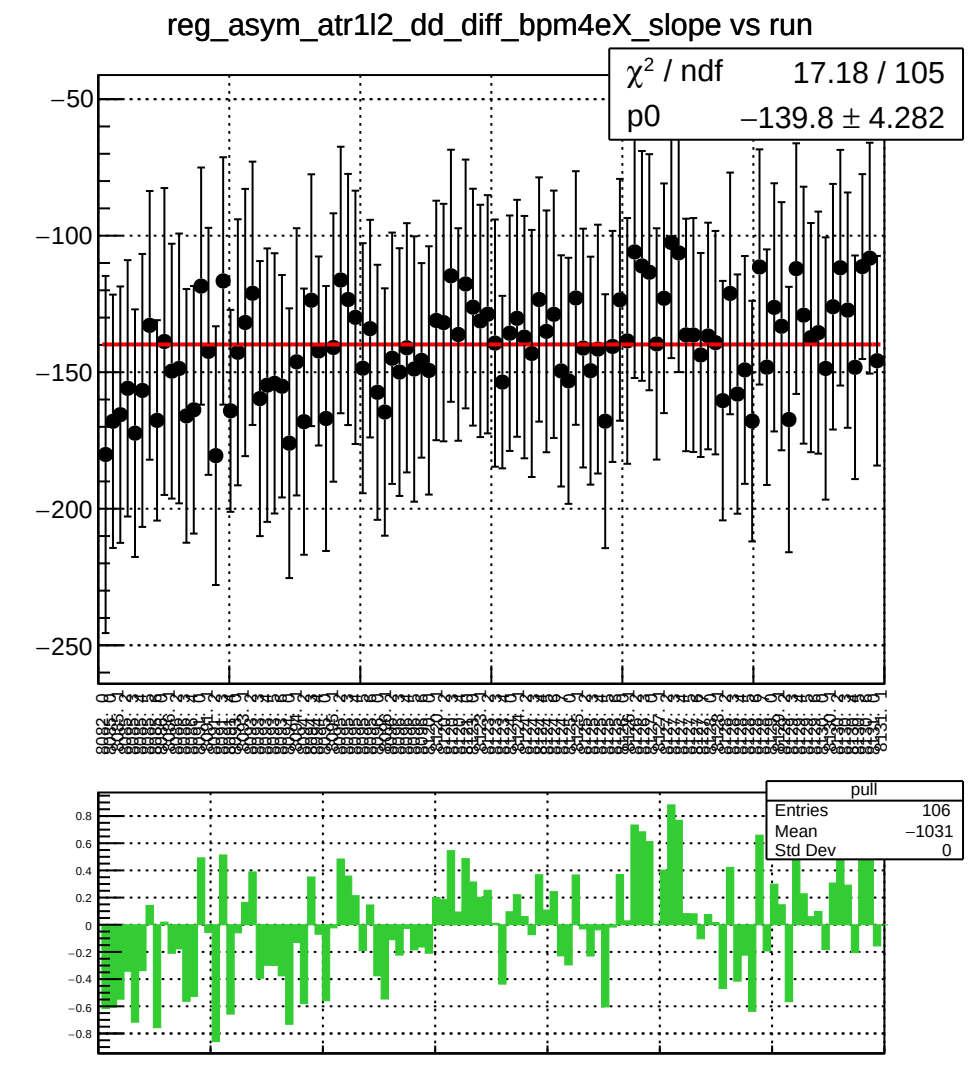

pull1D
Entries 106
Mean −0.2752
Std Dev 2.34

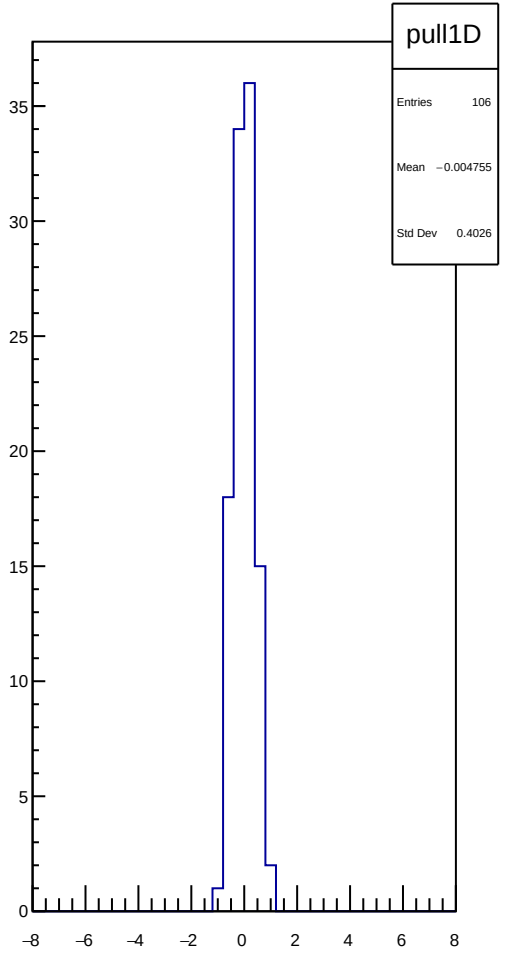

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 17.07 / 105
p0 164.8 ± 4.508
pull
Entries 106
Mean −1360
Std Dev 0

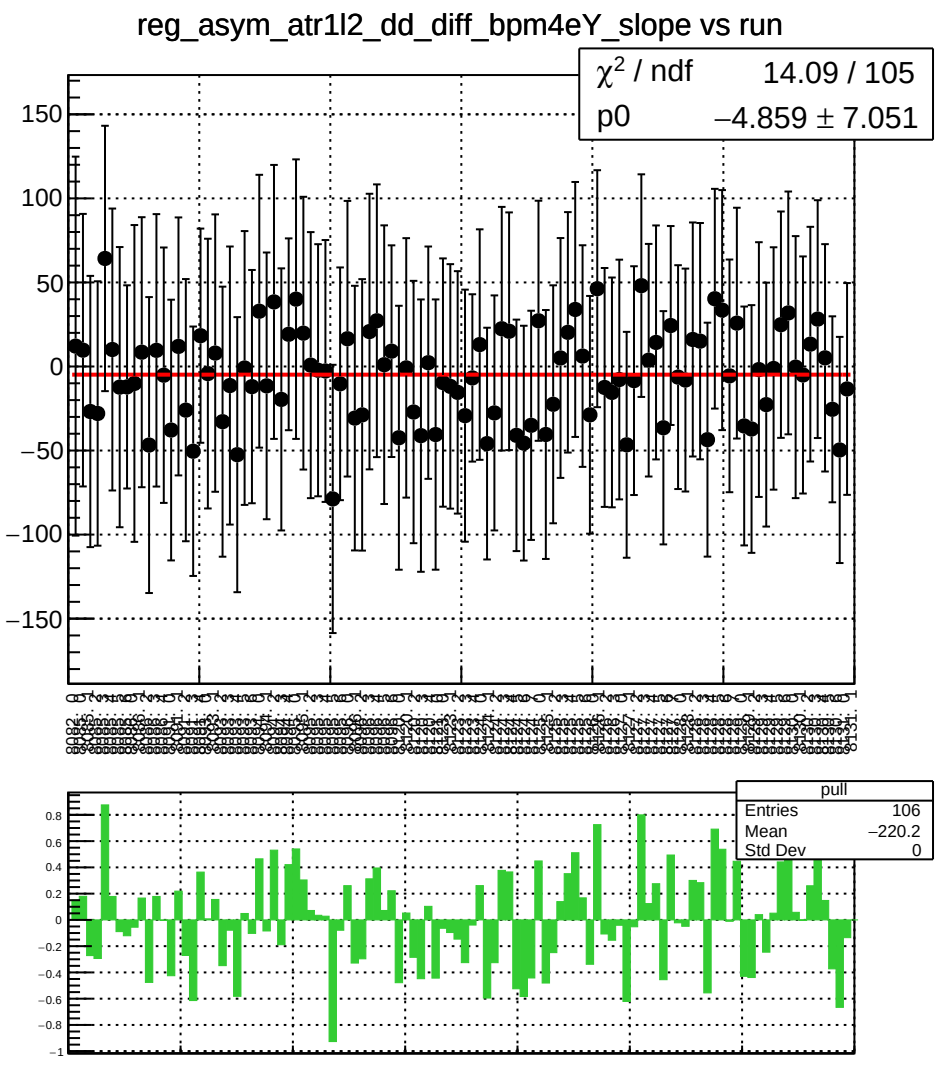

pull1D
Entries 106
Mean 0.003219
Std Dev 0.4012

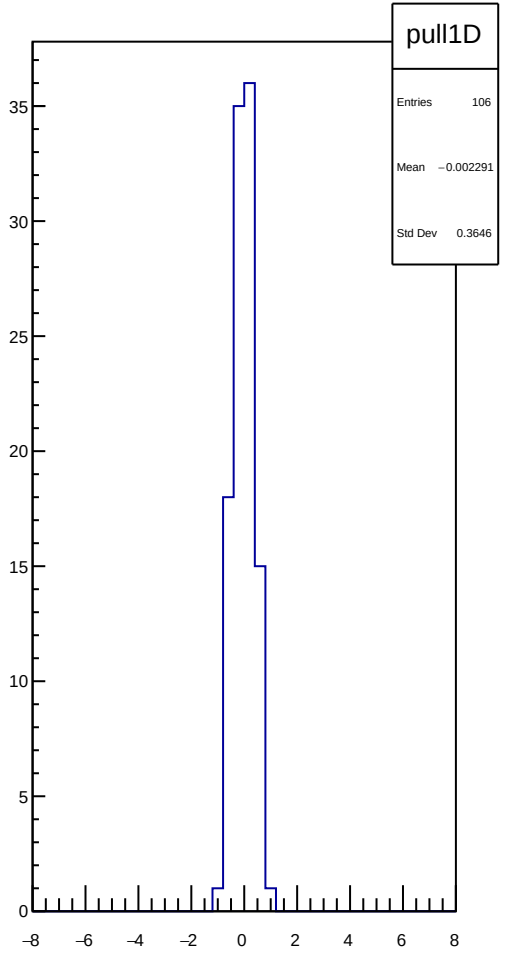

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.31 / 105
p0 −47.22 ± 6.601
pull
Entries 106
Mean −87.75
Std Dev 0

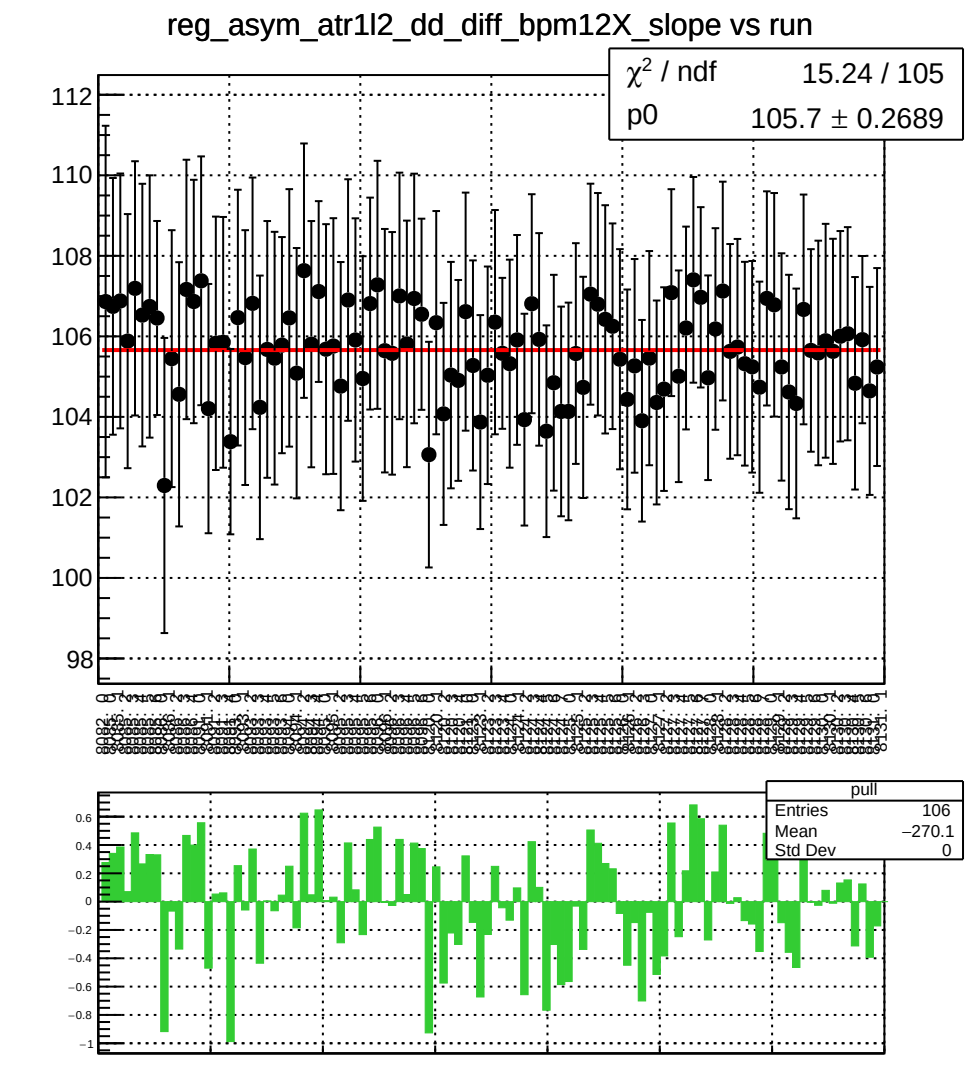

pull1D
Entries 106
Mean 0.001264
Std Dev 0.3674

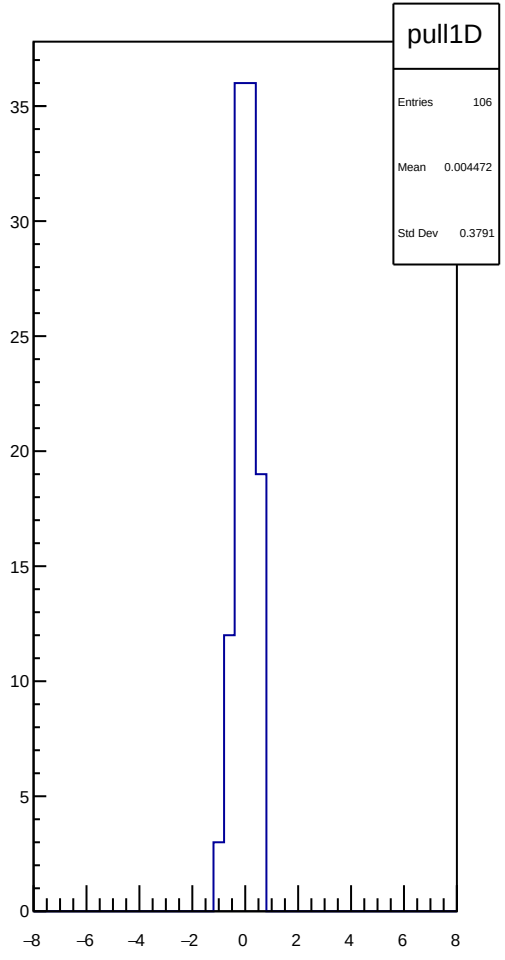

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 17.18 / 105
p0 −139.8 ± 4.282
−50
−100
−150
−200
−250
pull
Entries 106
Mean −1031
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

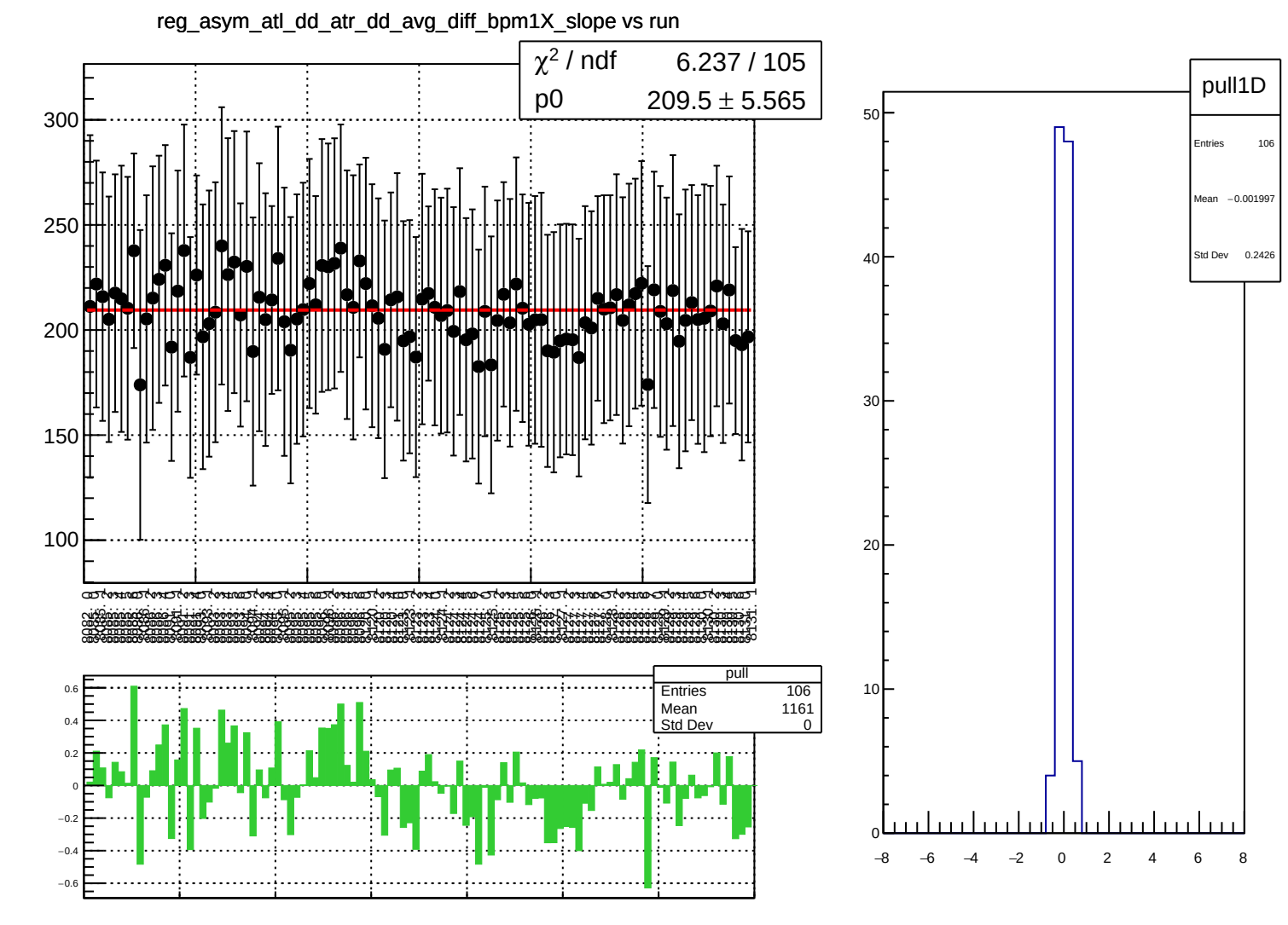

pull1D
Entries 106
Mean −0.004755
Std Dev 0.4026
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

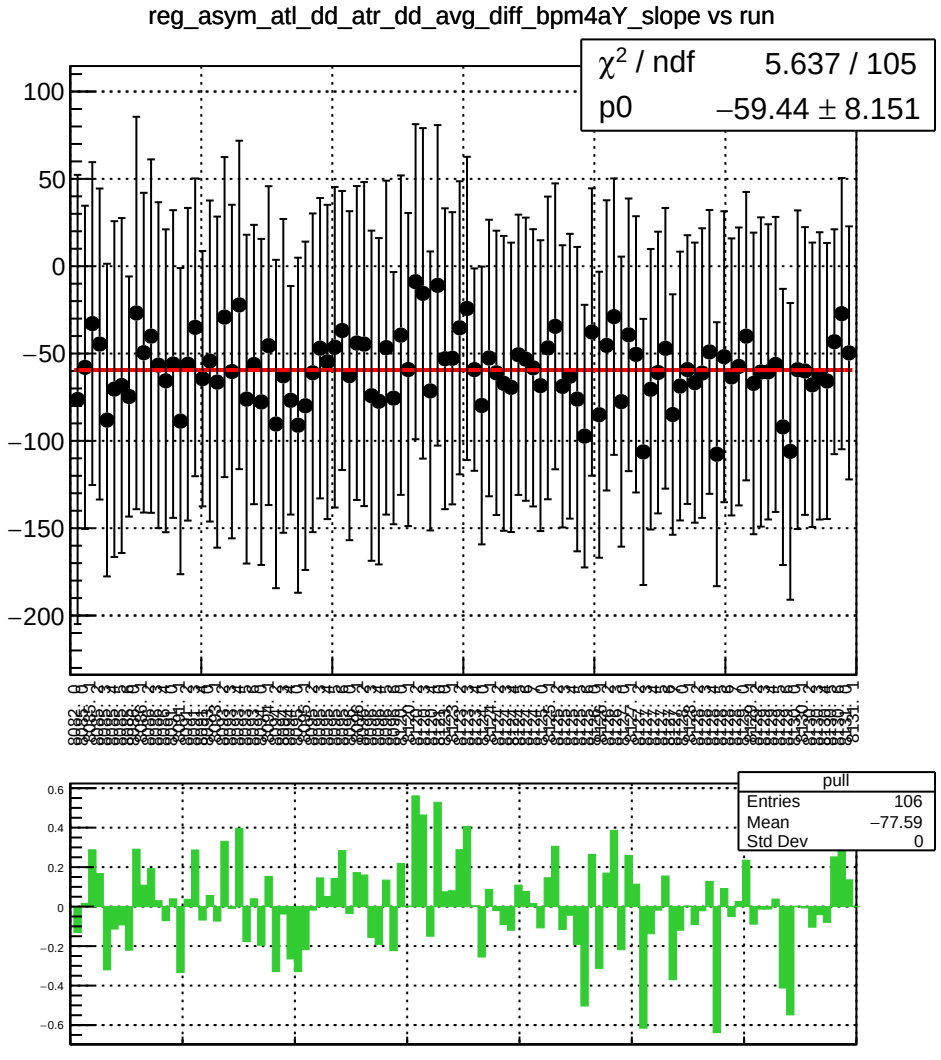

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 14.09 / 105
p0 −4.859 ± 7.051
150
100
50
0
−50
−100
−150
pull
Entries 106
Mean −220.2
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

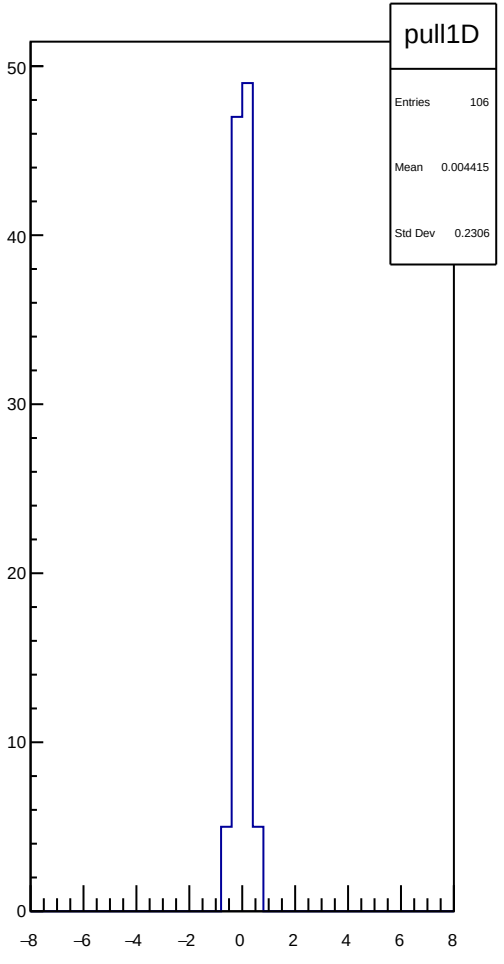

pull1D
Entries 106
Mean −0.002291
Std Dev 0.3646
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

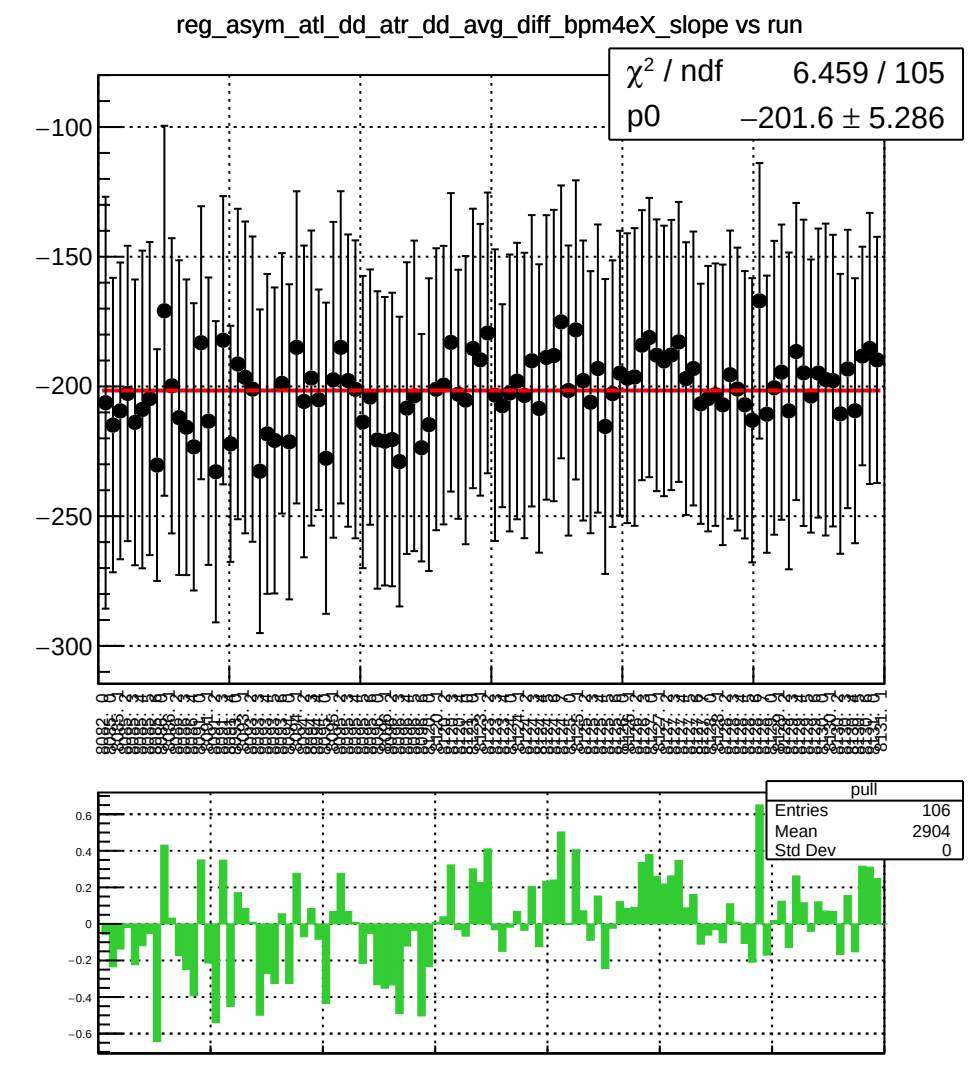

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 15.24 / 105
p0 105.7 ± 0.2689
pull
Entries 106
Mean −270.1
Std Dev 0

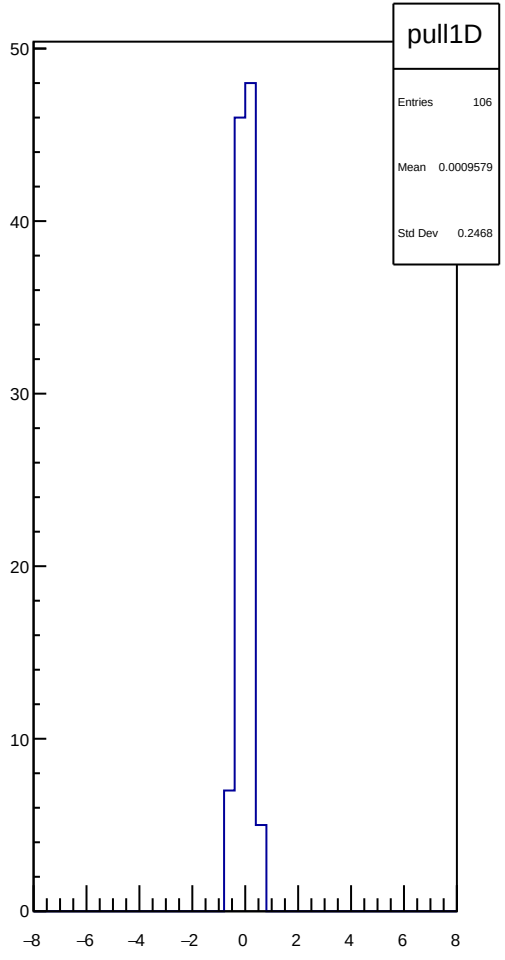

pull1D
Entries 106
Mean 0.004472
Std Dev 0.3791

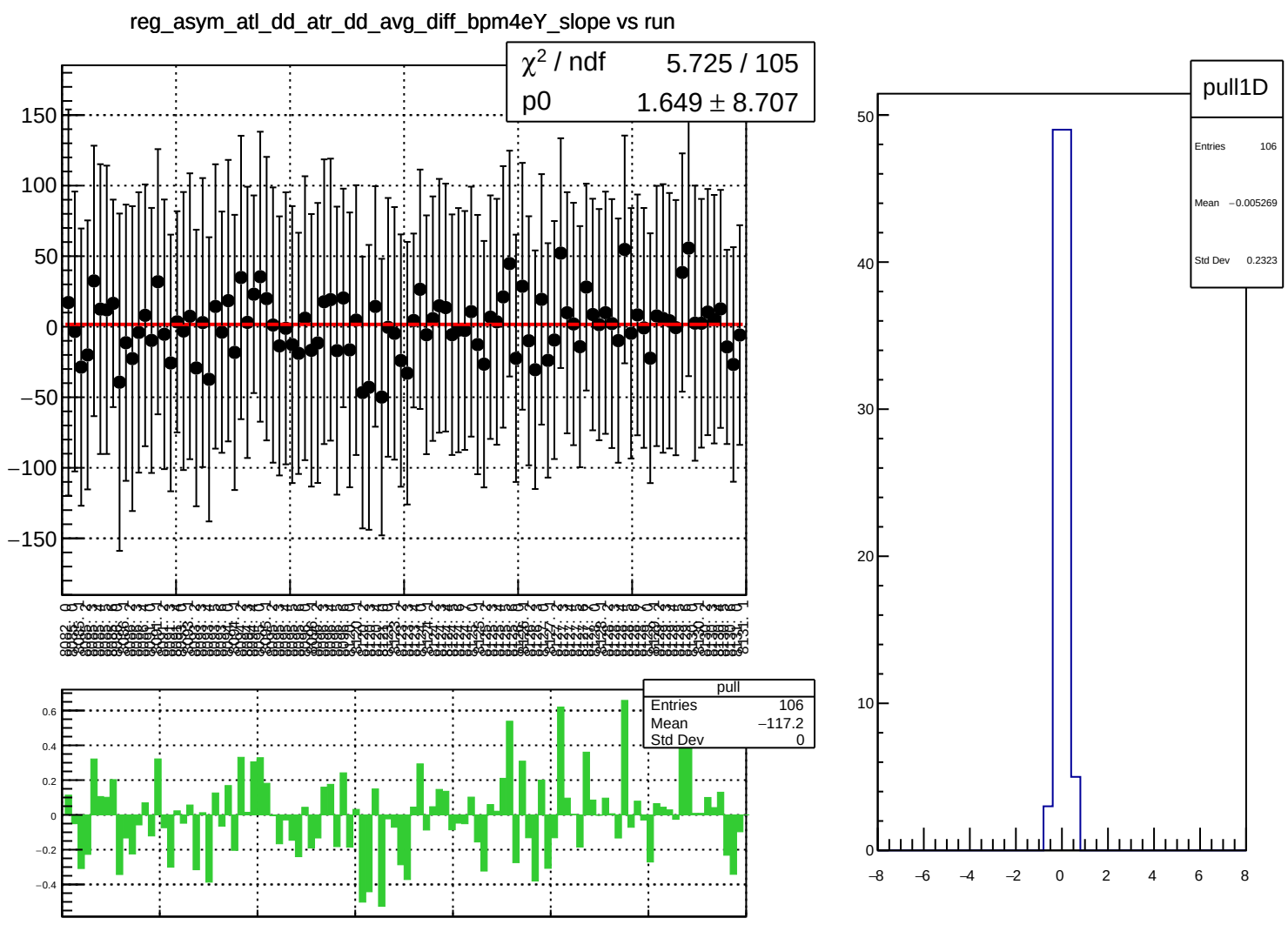

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 6.237 / 105
p0 209.5 ± 5.565
300
250
200
150
100
pull
Entries 106
Mean 1161
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 106
Mean −0.001997
Std Dev 0.2426
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

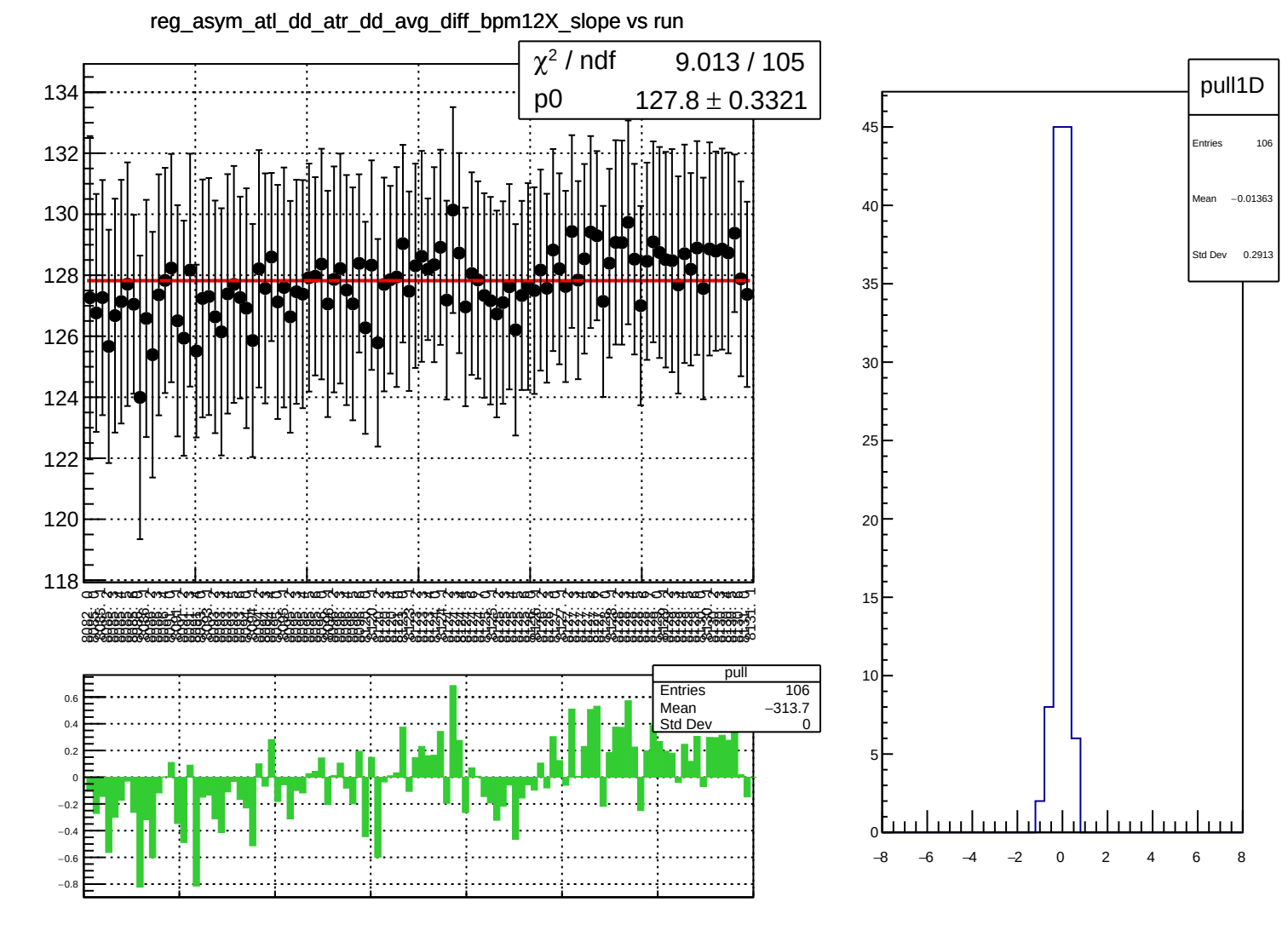

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.637 / 105
p0 −59.44 ± 8.151
100
50
0
−50
−100
−150
−200
pull
Entries 106
Mean −77.59
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

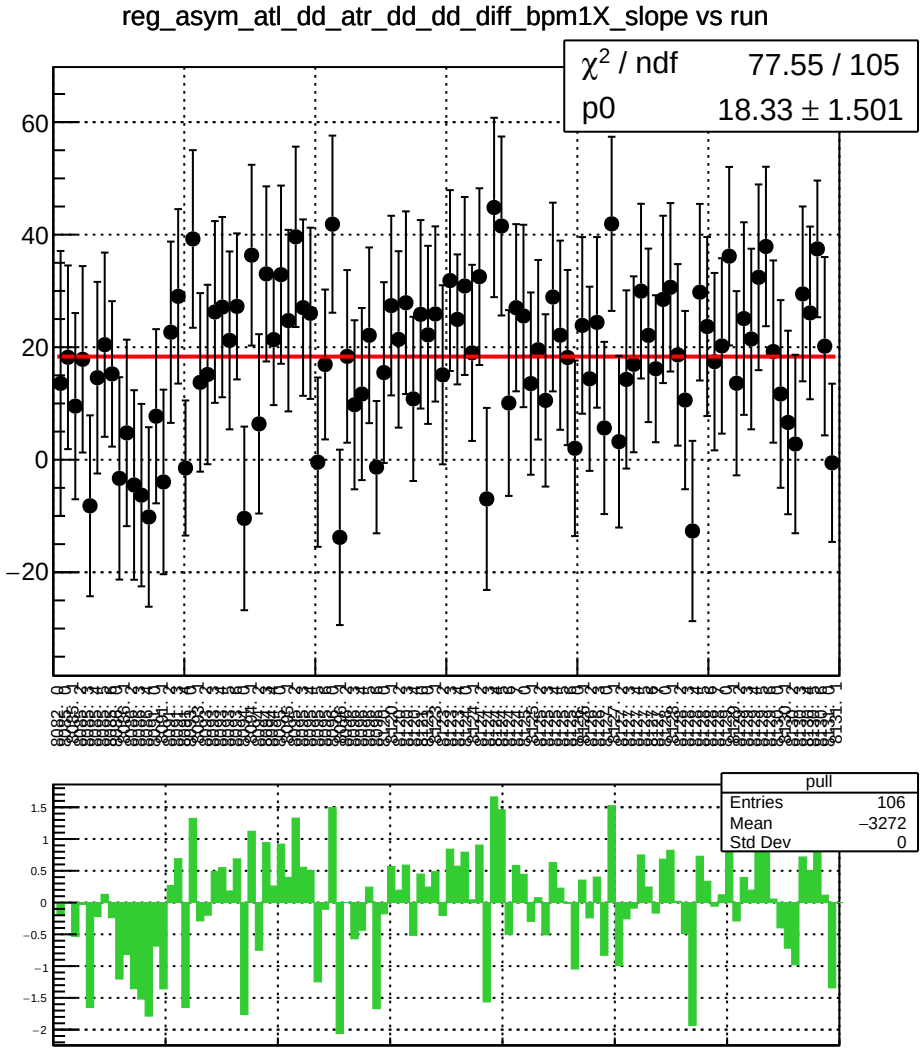

pull1D
Entries 106
Mean 0.004415
Std Dev 0.2306
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

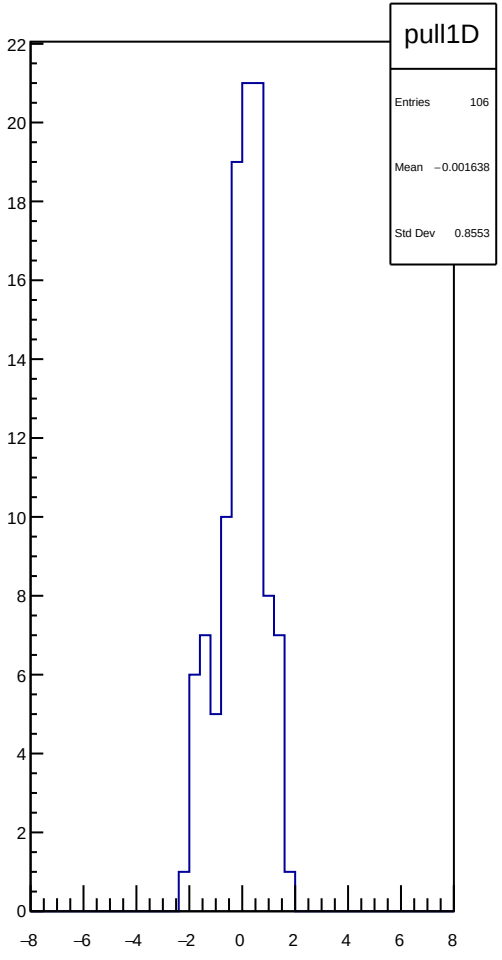

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.459 / 105
p0 −201.6 ± 5.286
−100
−150
−200
−250
−300
pull
Entries 106
Mean 2904
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

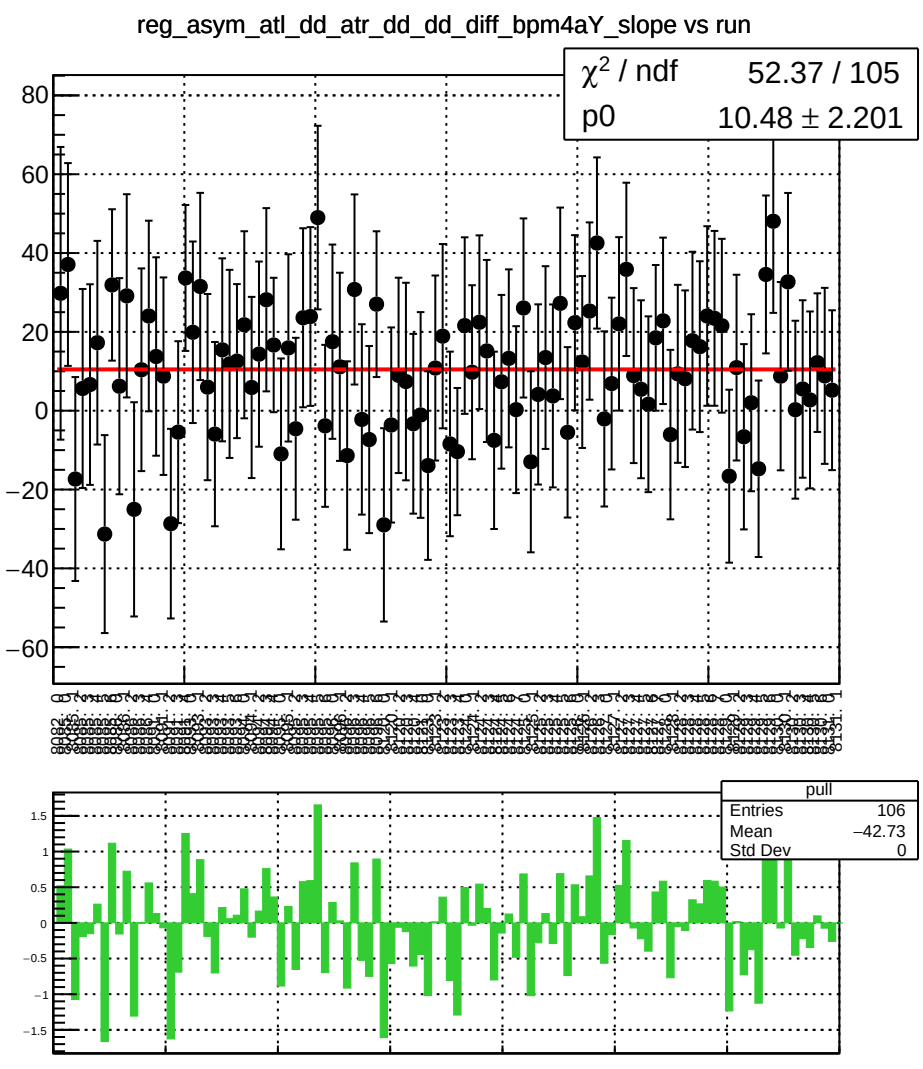

pull1D
Entries 106
Mean 0.0009579
Std Dev 0.2468
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

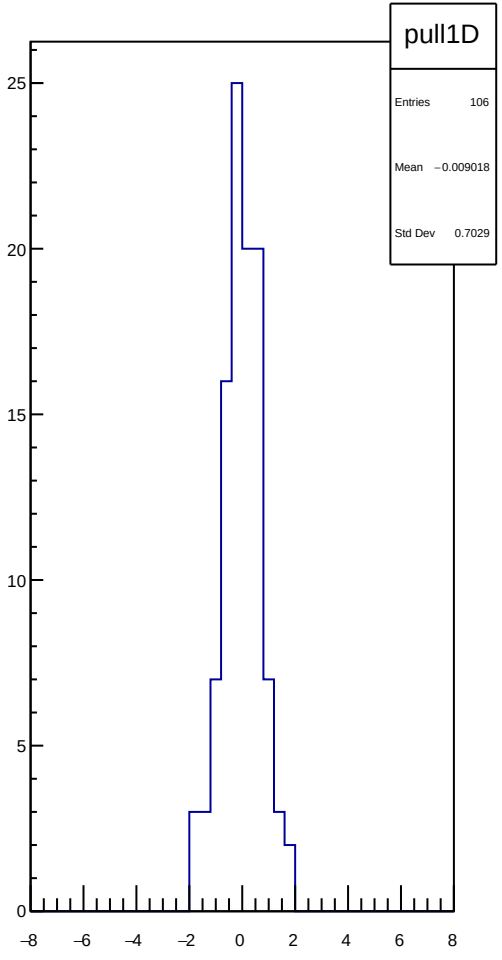

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.725 / 105
p0 1.649 ± 8.707
150
100
50
0
−50
−100
−150
pull
Entries 106
Mean −117.2
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 106
Mean −0.005269
Std Dev 0.2323
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

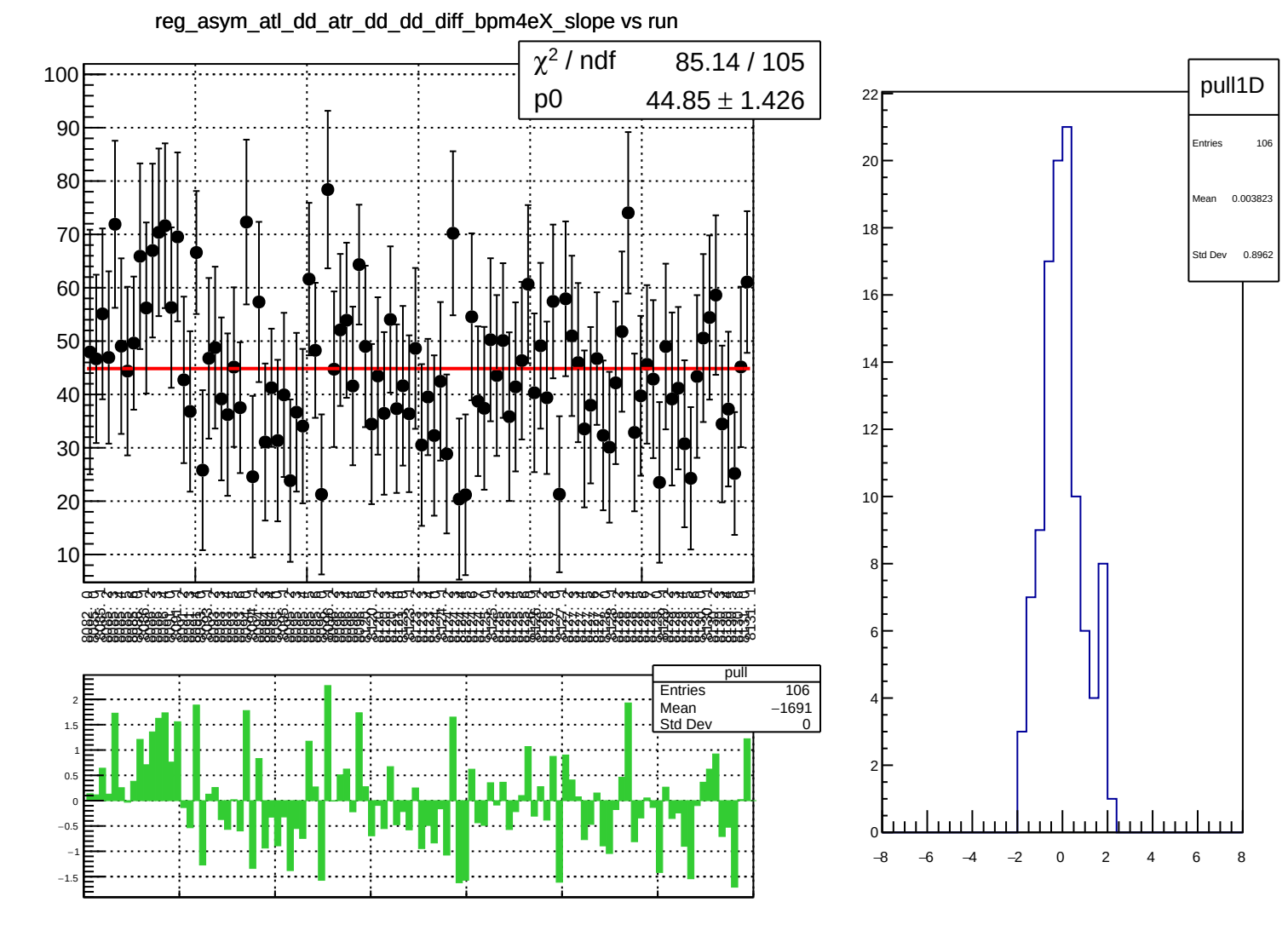

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 9.013 / 105
p0 127.8 ± 0.3321
134
132
130
128
126
124
122
120
118
pull
Entries 106
Mean −313.7
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 106
Mean −0.01363
Std Dev 0.2913
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

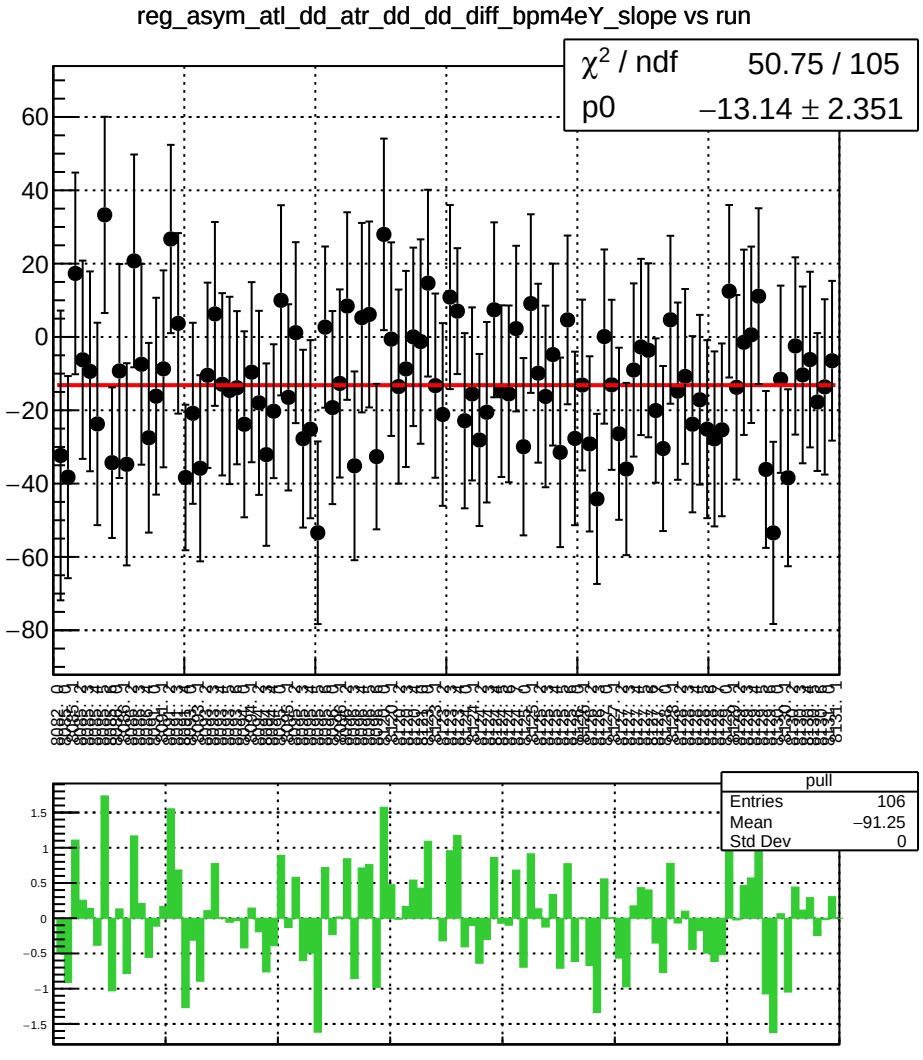

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 77.55 / 105
p0 18.33 ± 1.501
pull
Entries 106
Mean −3272
Std Dev 0

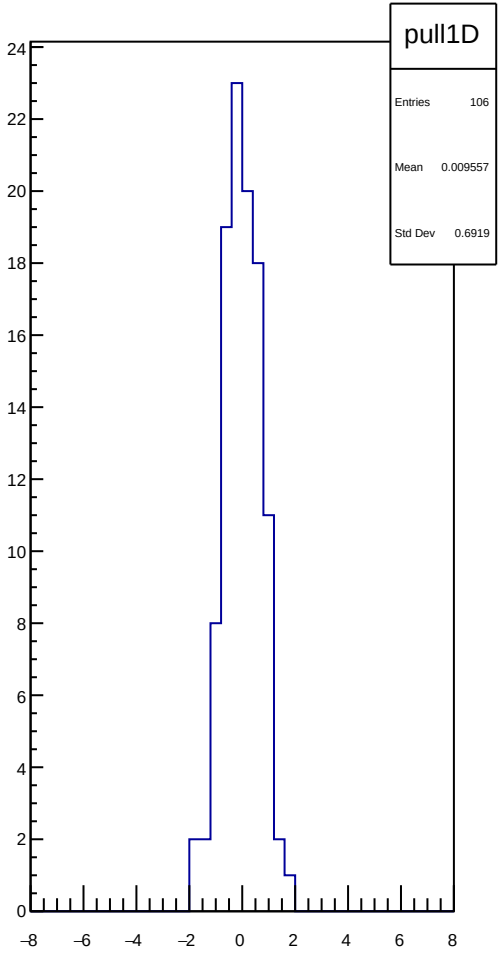

pull1D
Entries 106
Mean −0.001638
Std Dev 0.8553

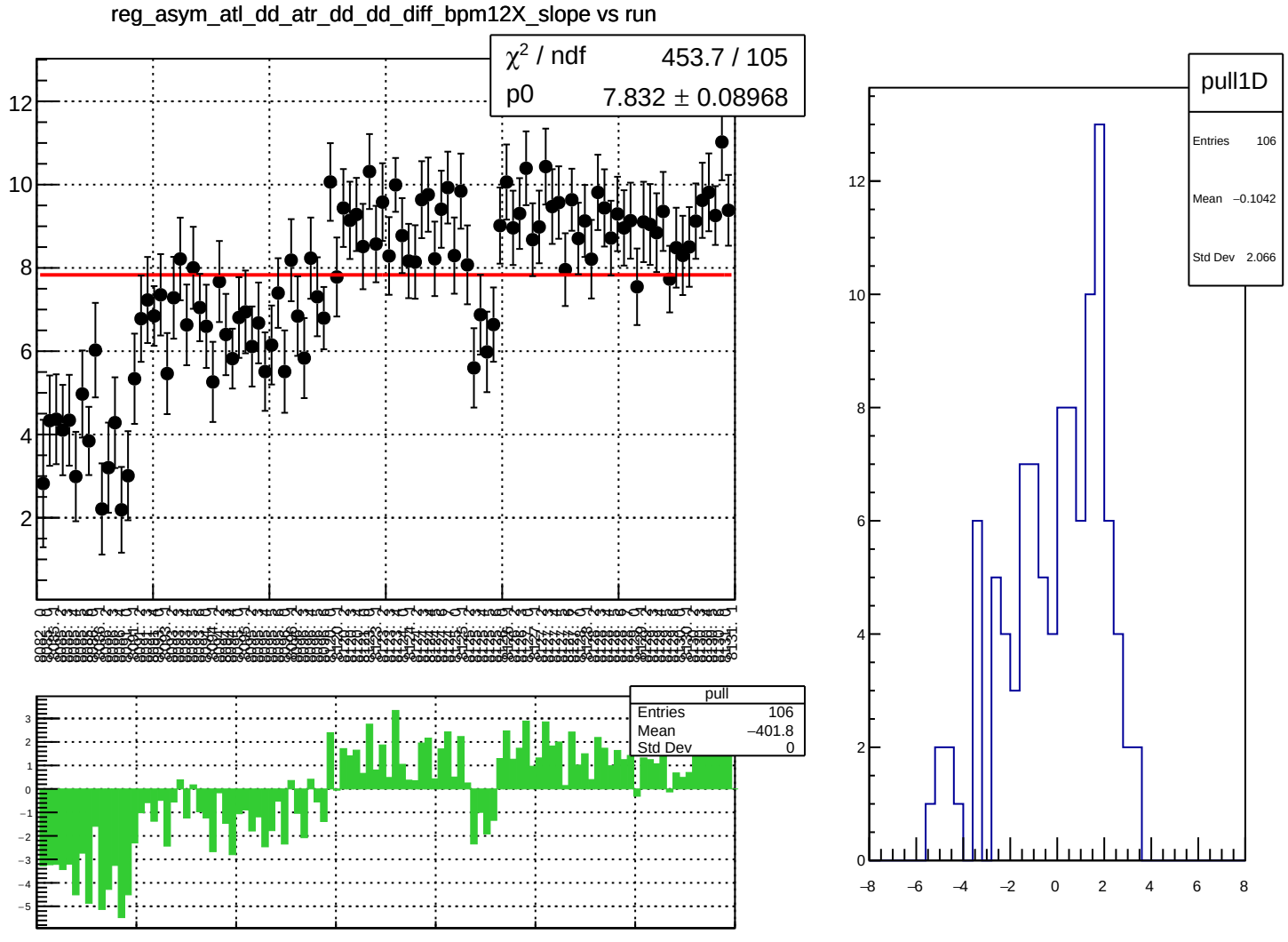

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 52.37 / 105
p0 10.48 ± 2.201
pull
Entries 106
Mean −42.73
Std Dev 0

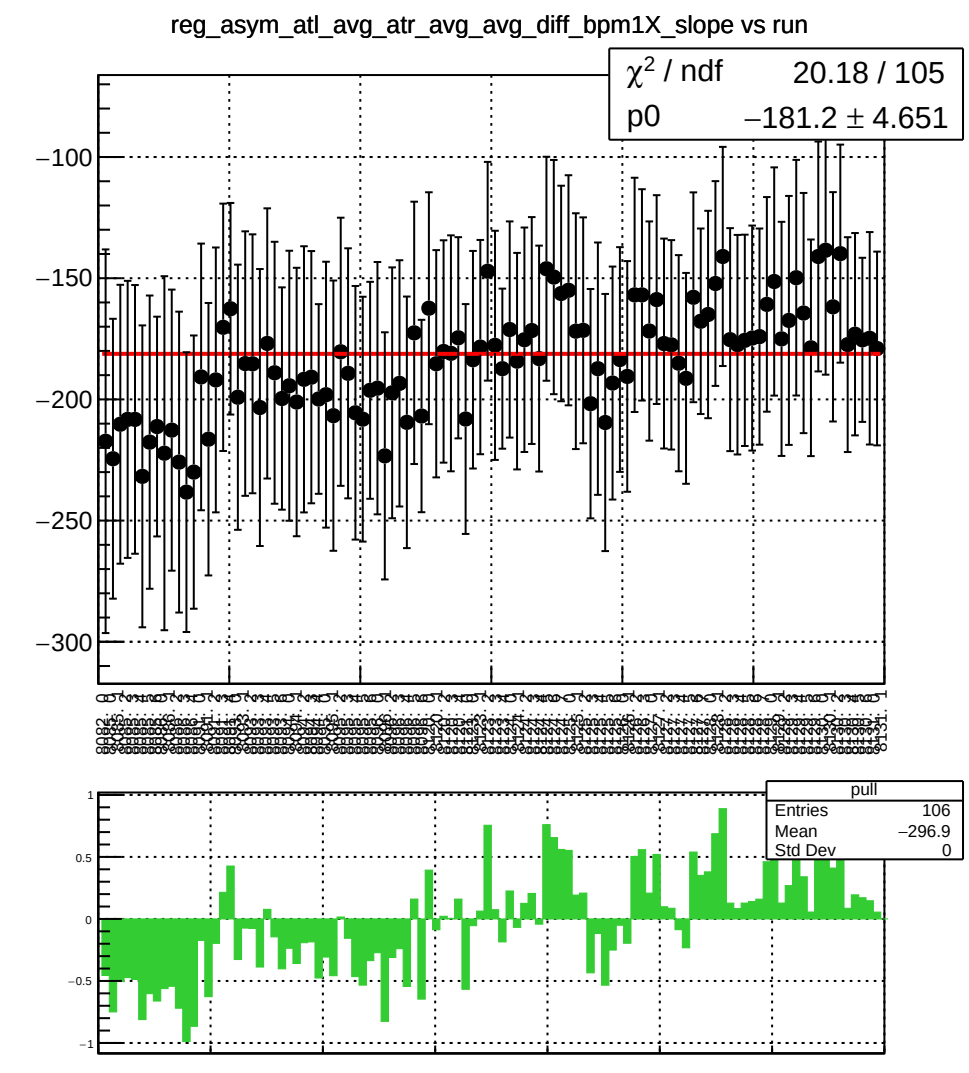

pull1D
Entries 106
Mean −0.009018
Std Dev 0.7029

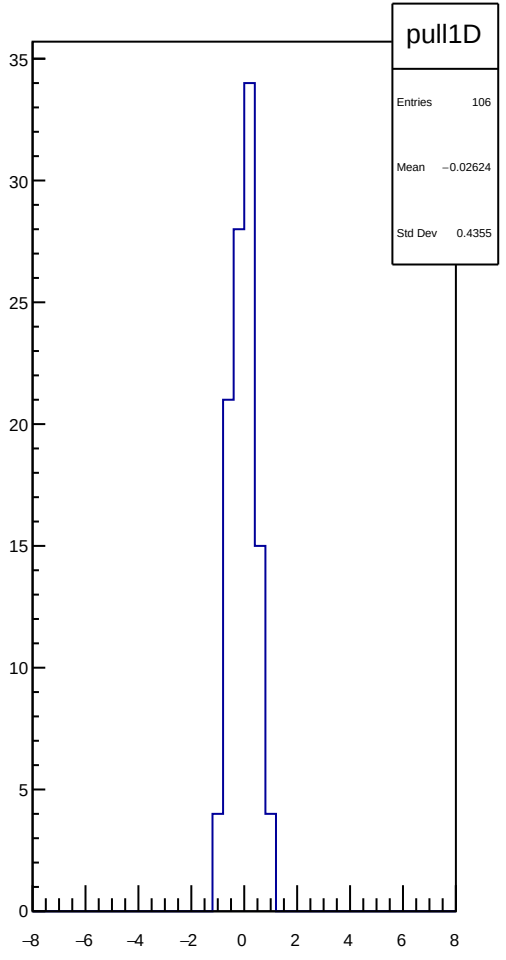

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 85.14 / 105
p0 44.85 ± 1.426
pull
Entries 106
Mean −1691
Std Dev 0
pull1D
Entries 106
Mean 0.003823
Std Dev 0.8962

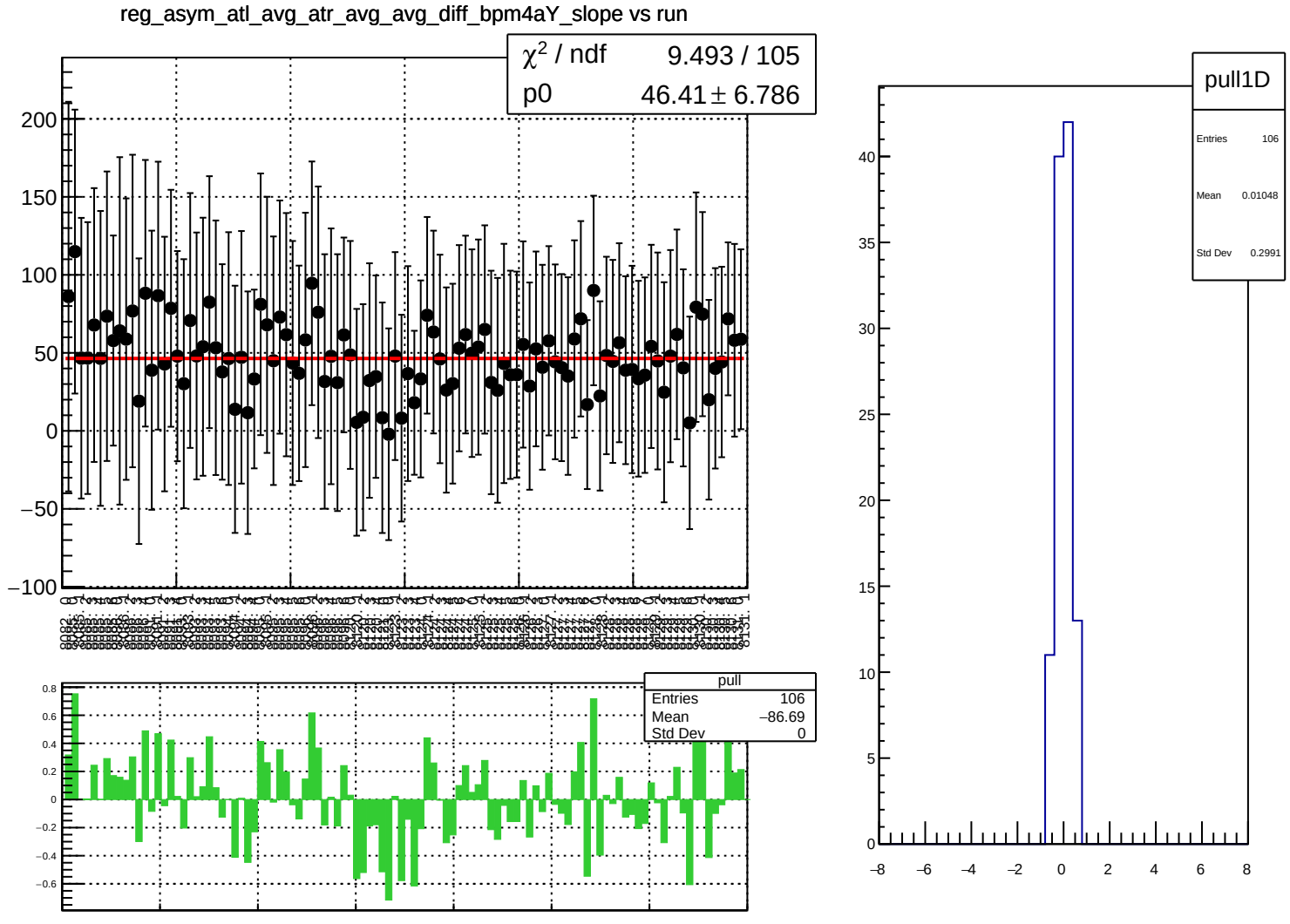

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 50.75 / 105
p0 −13.14 ± 2.351
pull
Entries 106
Mean −91.25
Std Dev 0

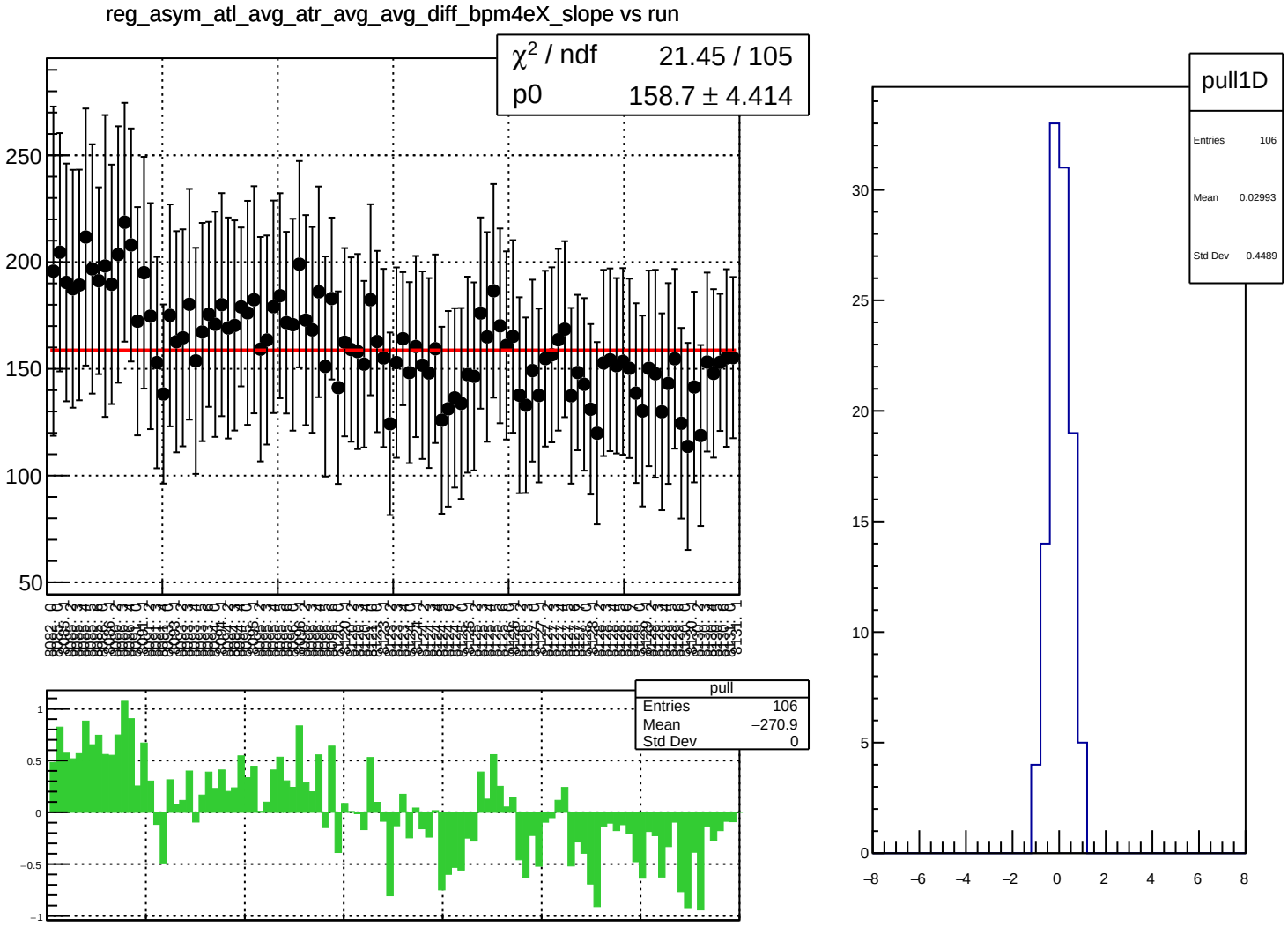

pull1D
Entries 106
Mean 0.009557
Std Dev 0.6919

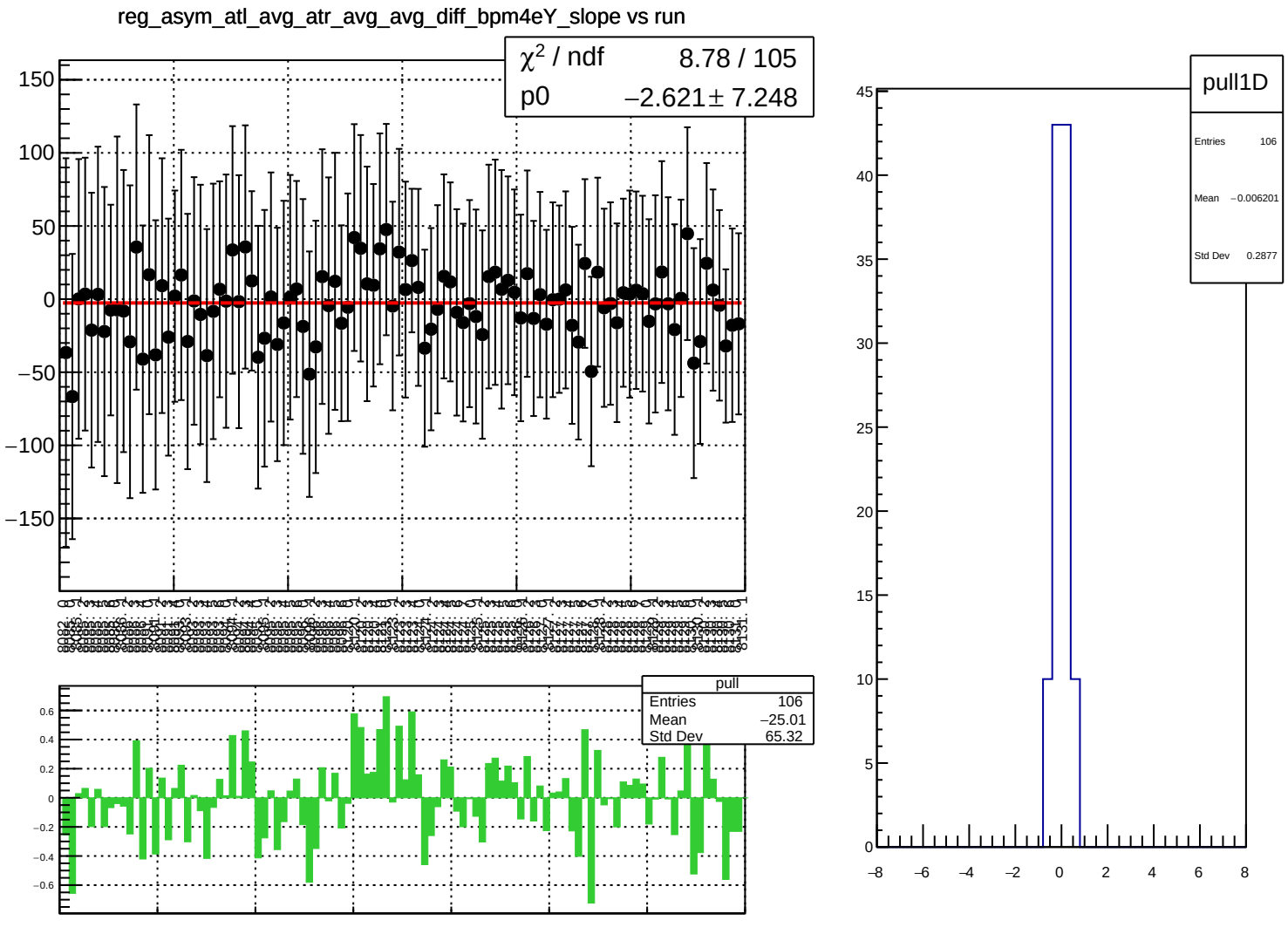

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 453.7 / 105
p0 7.832 ± 0.08968
pull
Entries 106
Mean −401.8
Std Dev 0
pull1D
Entries 106
Mean −0.1042
Std Dev 2.066

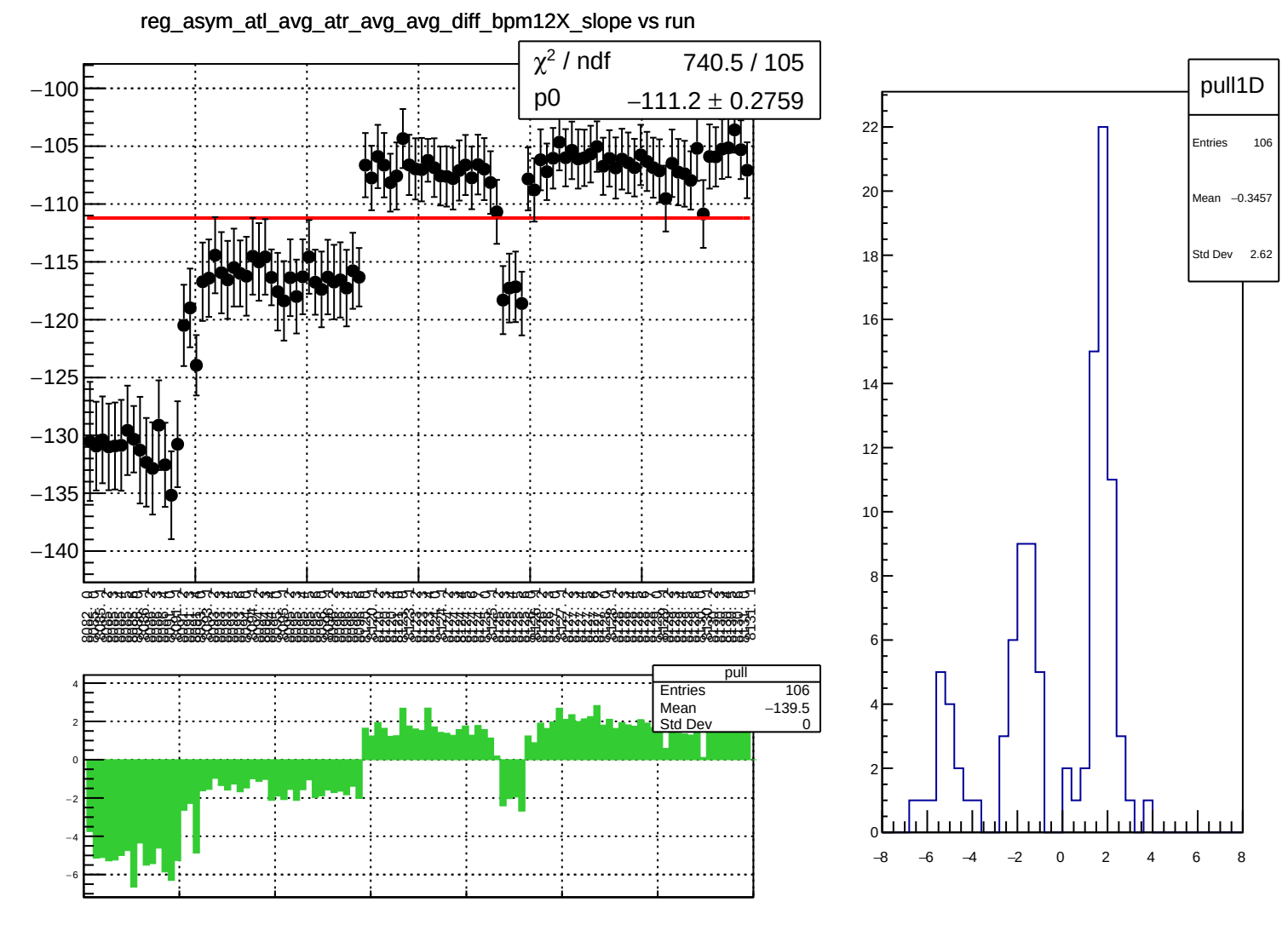

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 20.18 / 105
p0 −181.2 ± 4.651
−100
−150
−200
−250
−300
pull
Entries 106
Mean −296.9
Std Dev 0
1
0.5
0
−0.5
−1

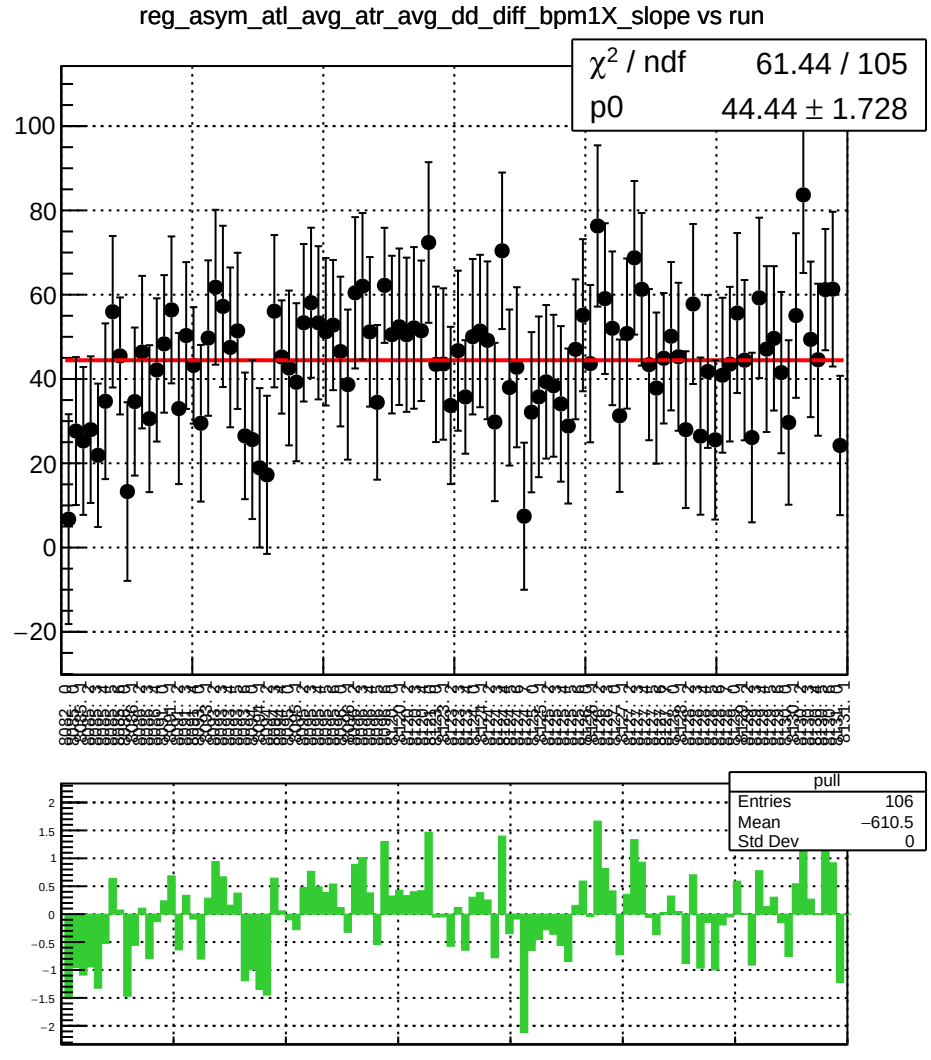

pull1D
Entries 106
Mean −0.02624
Std Dev 0.4355
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

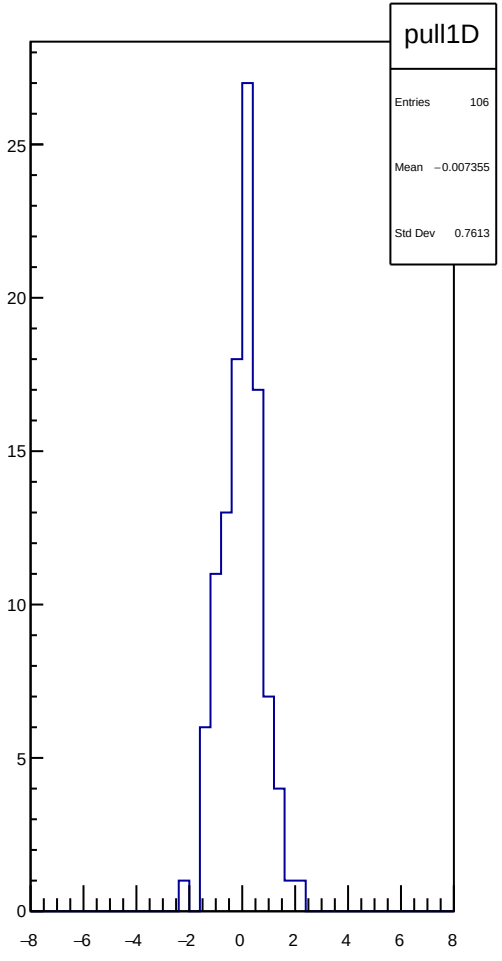

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.493 / 105
p0 46.41 ± 6.786
200
150
100
50
0
−50
−100
pull
Entries 106
Mean −86.69
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 106
Mean 0.01048
Std Dev 0.2991
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

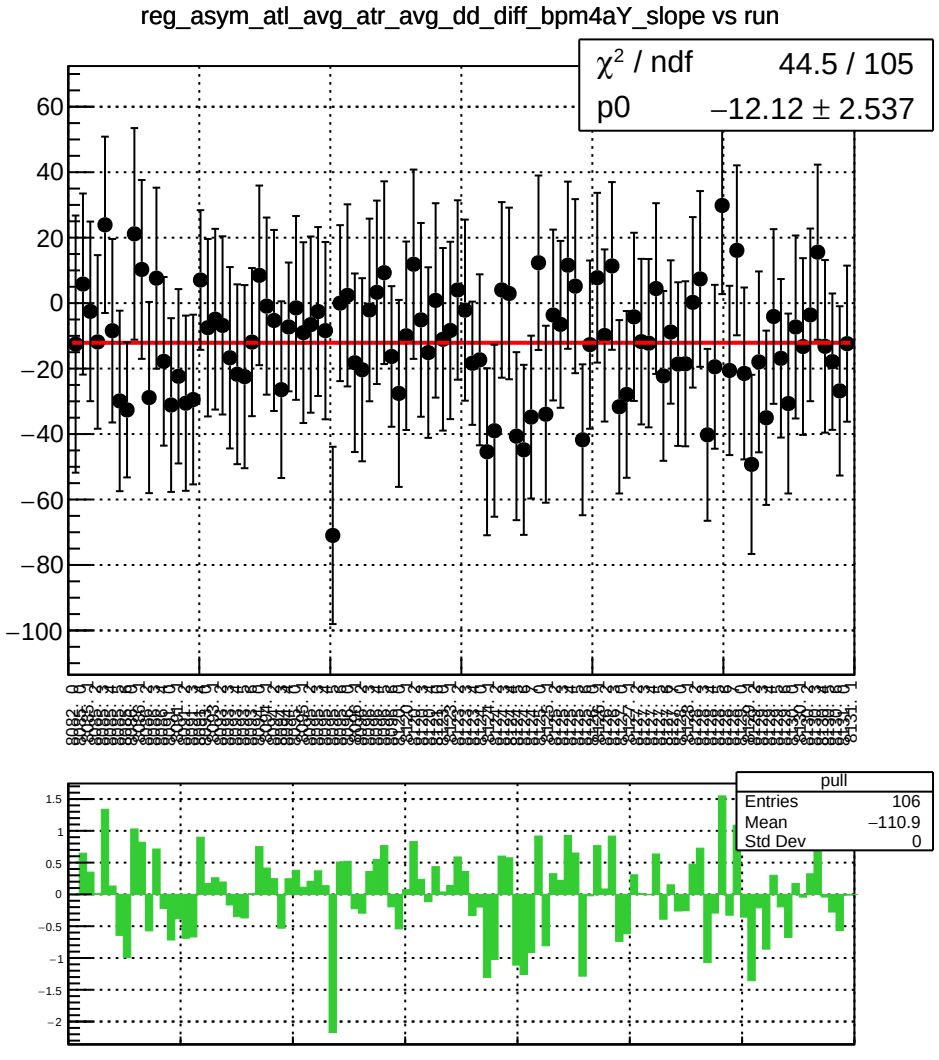

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 21.45 / 105
p0 158.7 ± 4.414
250
200
150
100
50
pull
Entries 106
Mean −270.9
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 106
Mean 0.02993
Std Dev 0.4489
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

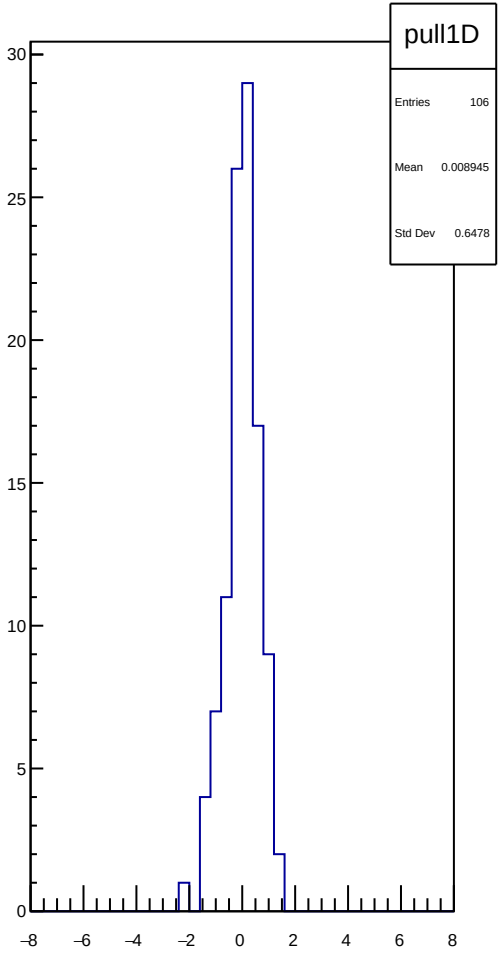

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.78 / 105
p0 −2.621± 7.248
150
100
50
0
−50
−100
−150
pull
Entries 106
Mean −25.01
Std Dev 65.32
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 106
Mean −0.006201
Std Dev 0.2877
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

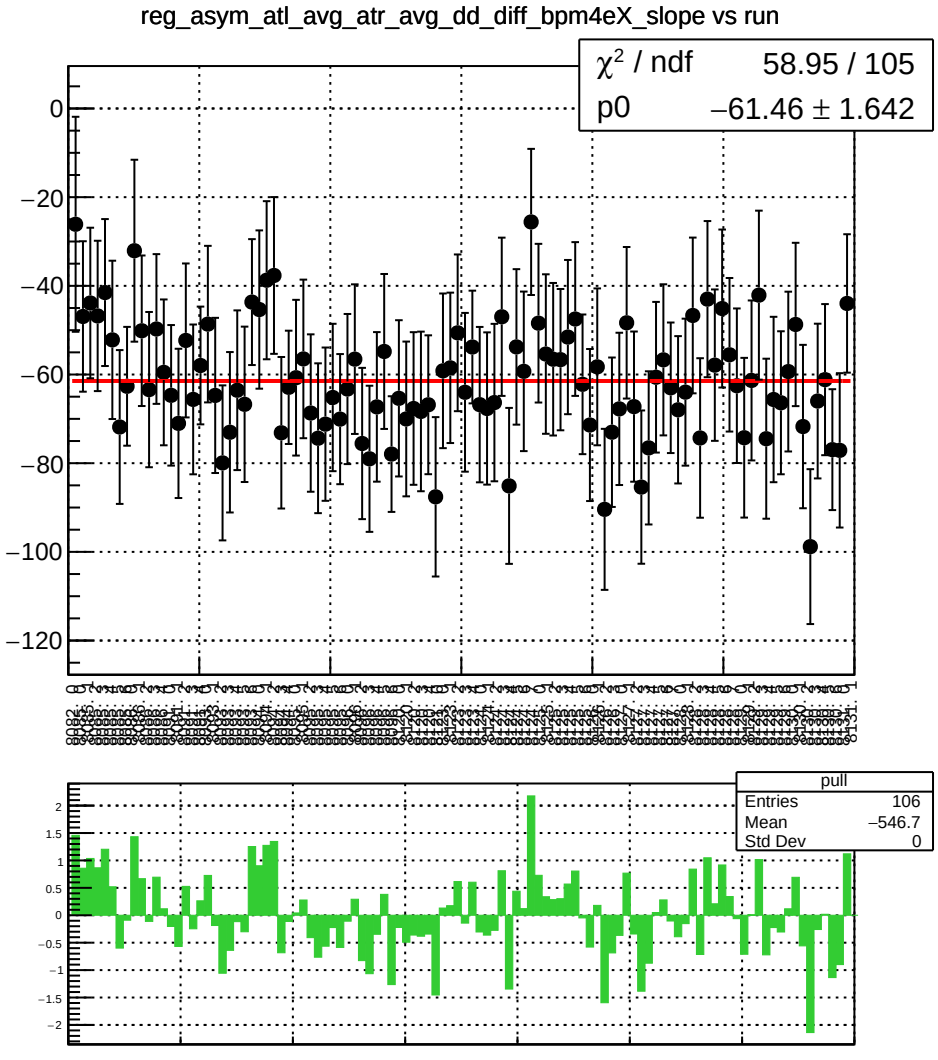

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 740.5 / 105
p0 −111.2 ± 0.2759
pull
Entries 106
Mean −139.5
Std Dev 0
pull1D
Entries 106
Mean −0.3457
Std Dev 2.62

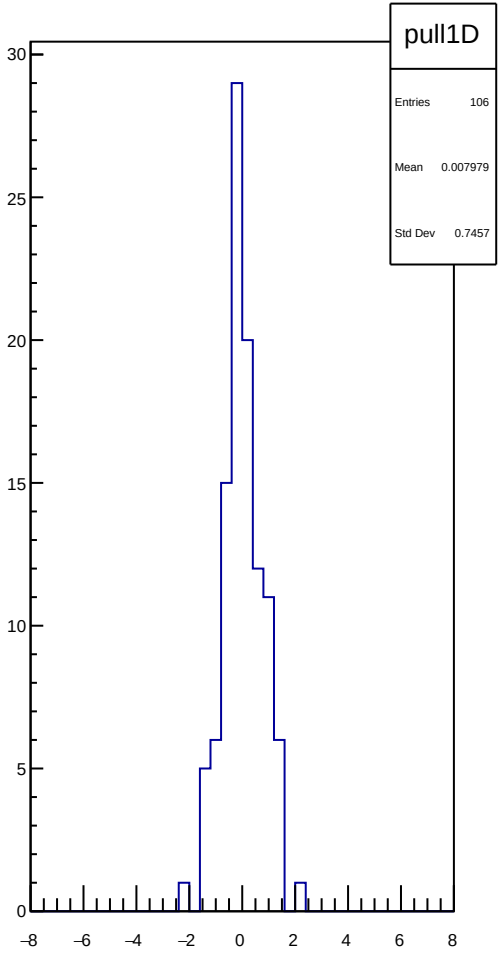

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 61.44 / 105
p0 44.44 ± 1.728
pull
Entries 106
Mean −610.5
Std Dev 0

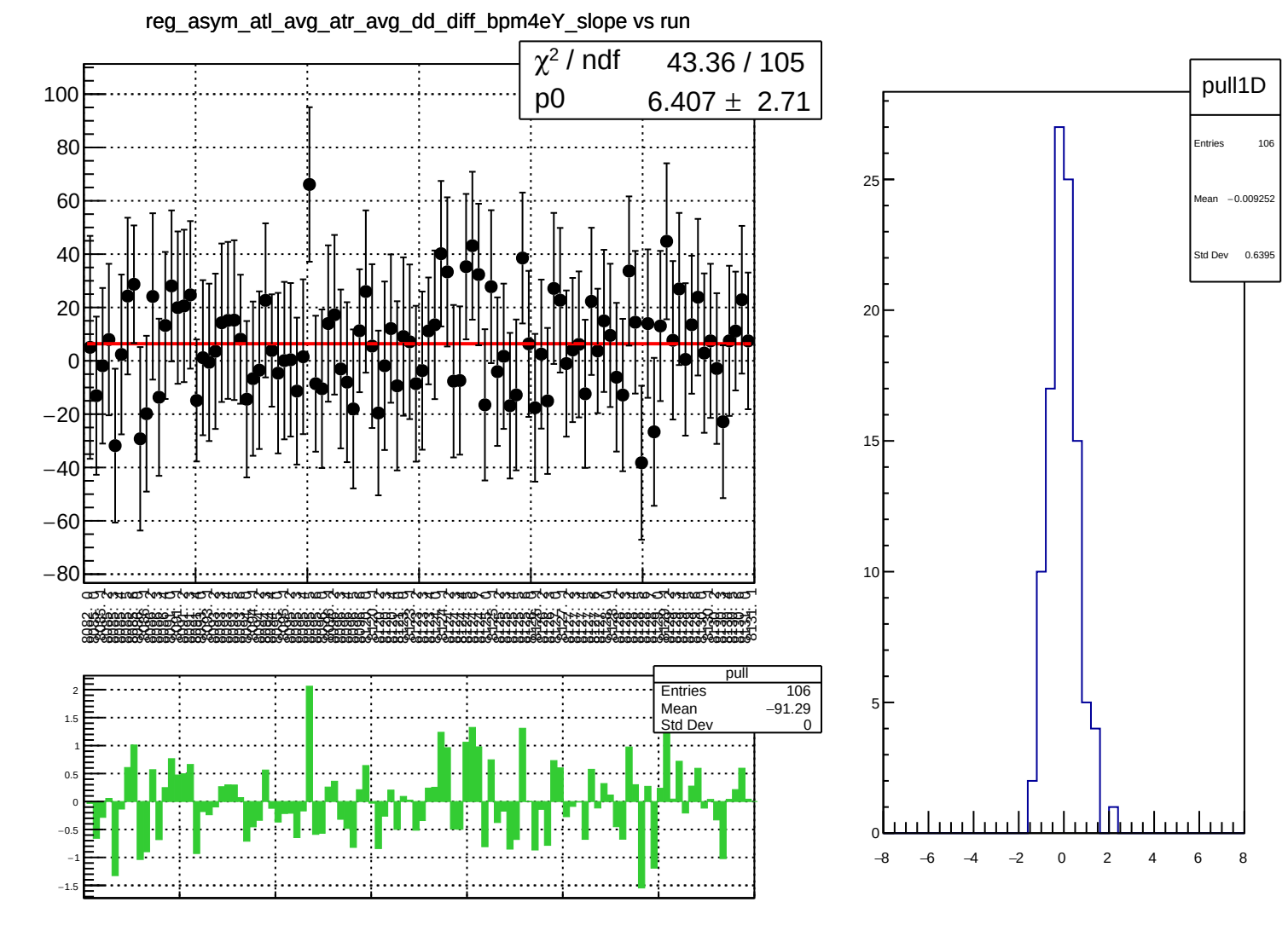

pull1D
Entries 106
Mean −0.007355
Std Dev 0.7613

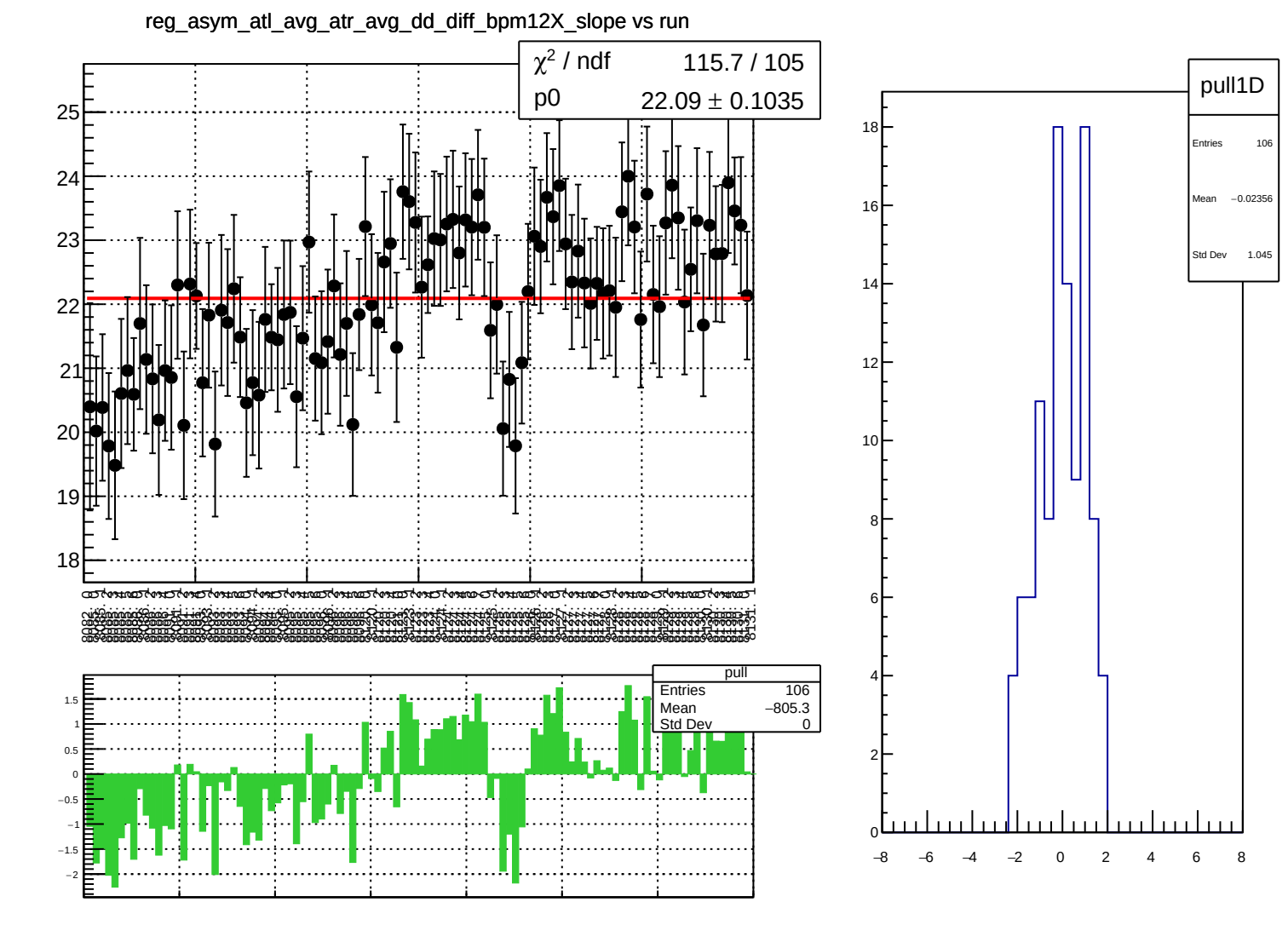

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 44.5 / 105
p0 −12.12 ± 2.537
pull
Entries 106
Mean −110.9
Std Dev 0

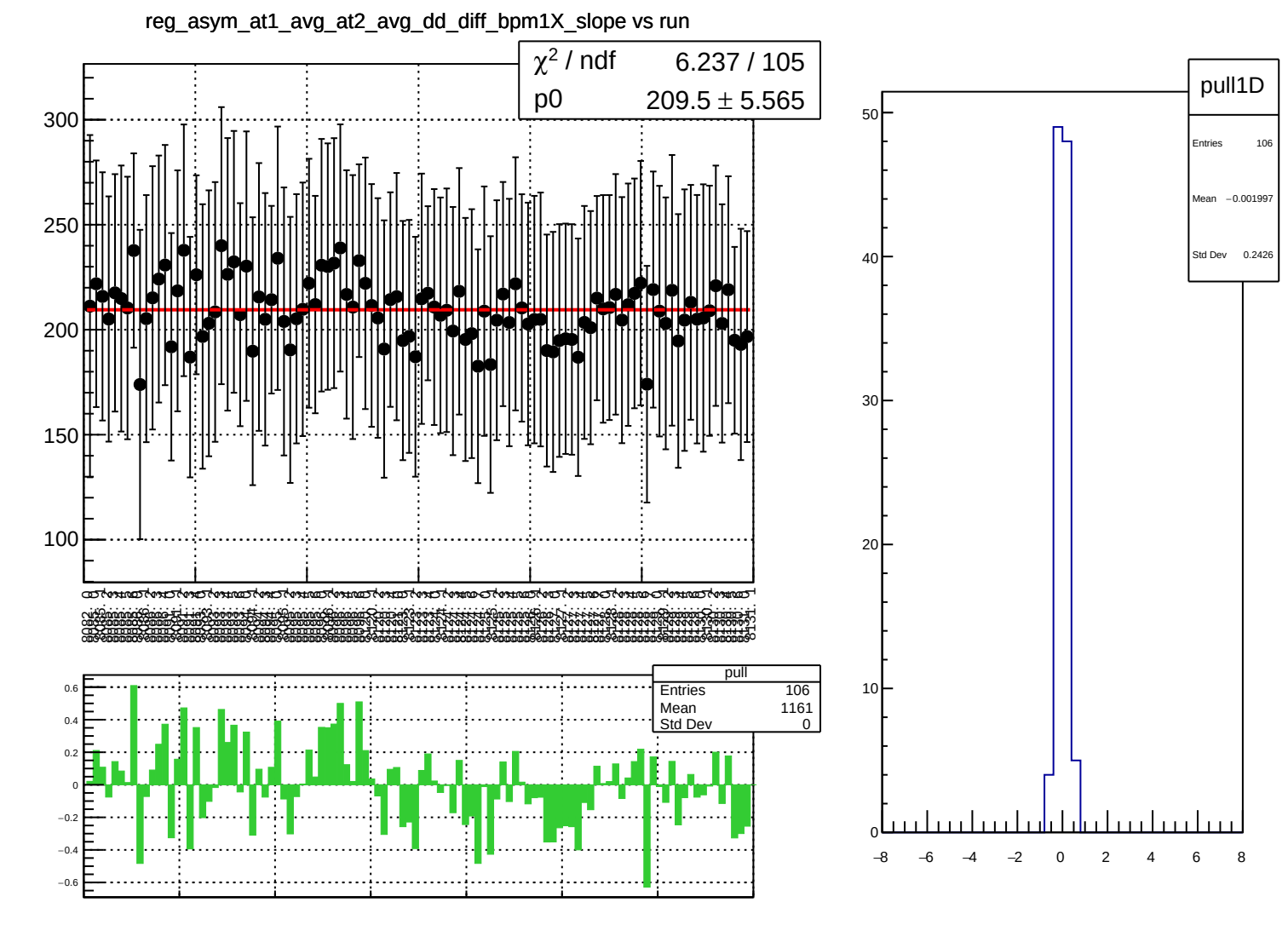

pull1D
Entries 106
Mean 0.008945
Std Dev 0.6478

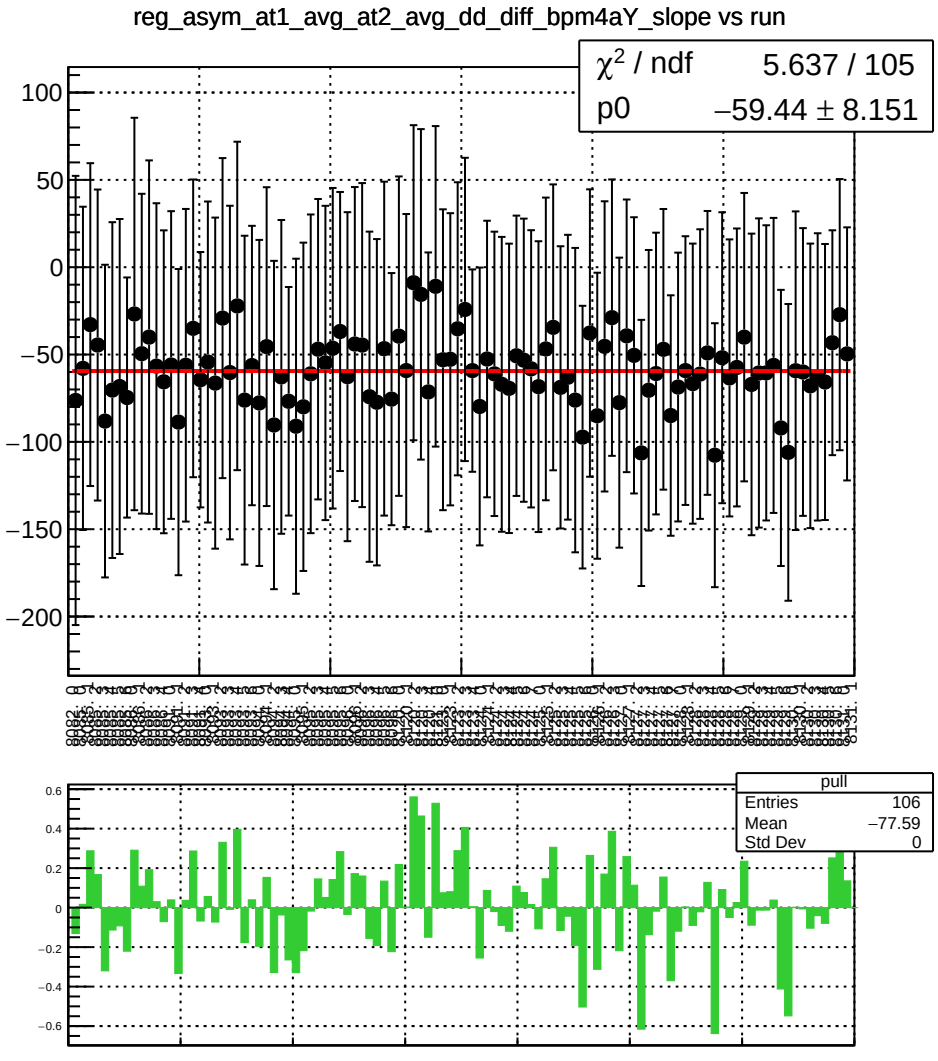

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 58.95 / 105
p0 −61.46 ± 1.642
pull
Entries 106
Mean −546.7
Std Dev 0

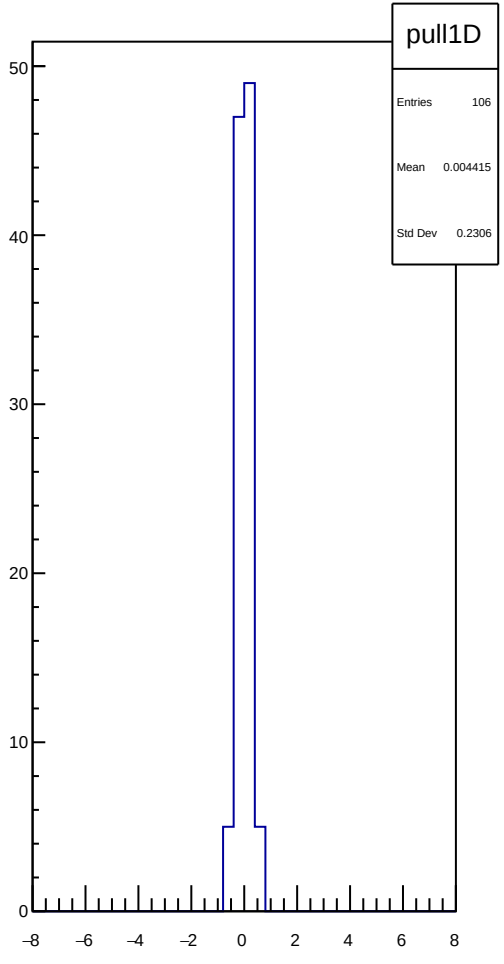

pull1D
Entries 106
Mean 0.007979
Std Dev 0.7457

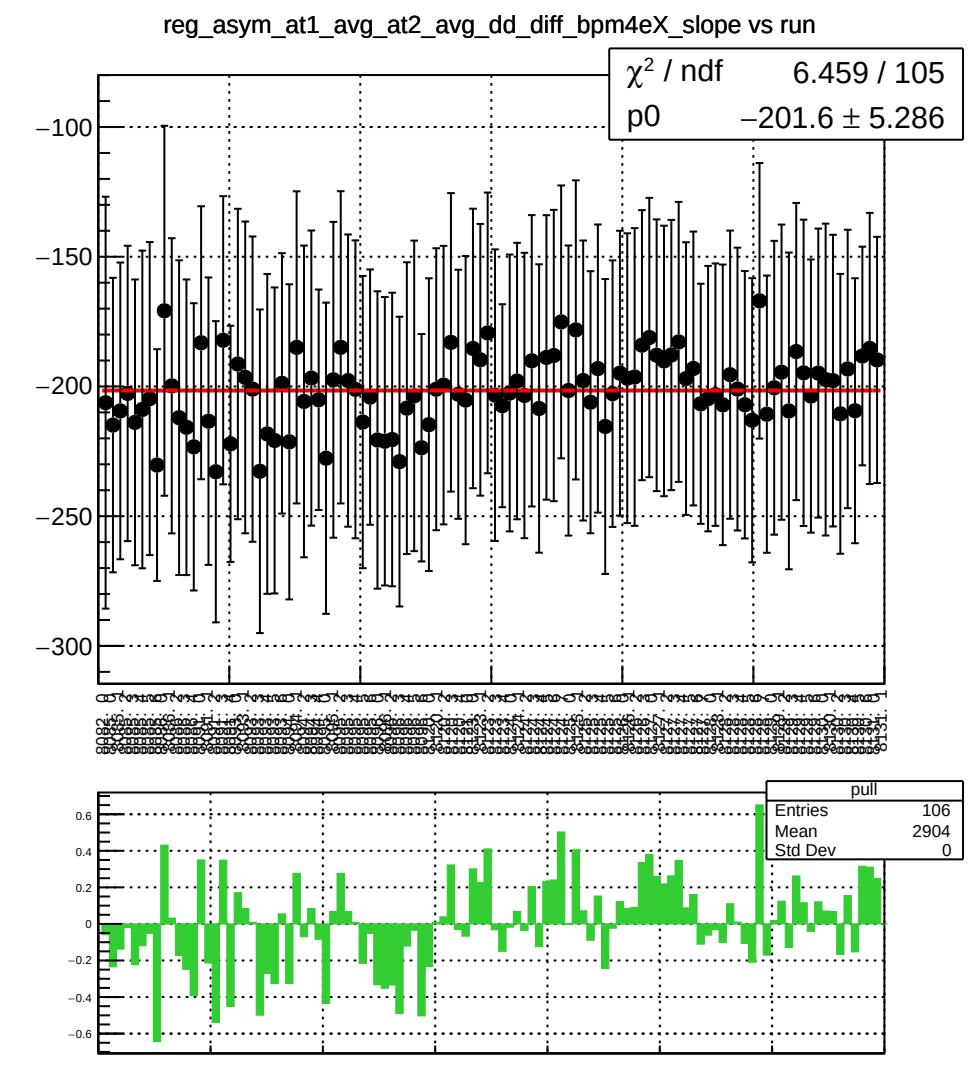

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 43.36 / 105
p0 6.407 ± 2.71
pull
Entries 106
Mean −91.29
Std Dev 0
pull1D
Entries 106
Mean −0.009252
Std Dev 0.6395

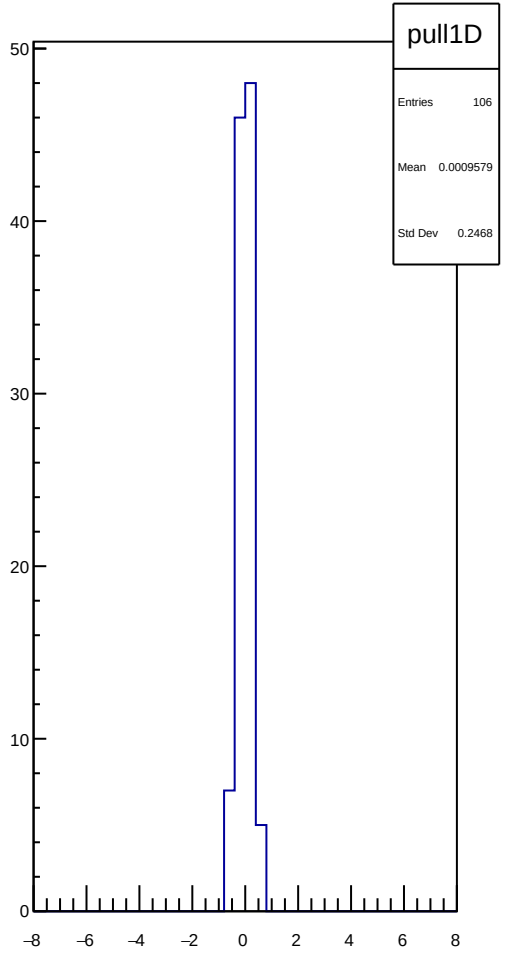

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 115.7 / 105
p0 22.09 ± 0.1035
pull
Entries 106
Mean −805.3
Std Dev 0
pull1D
Entries 106
Mean −0.02356
Std Dev 1.045

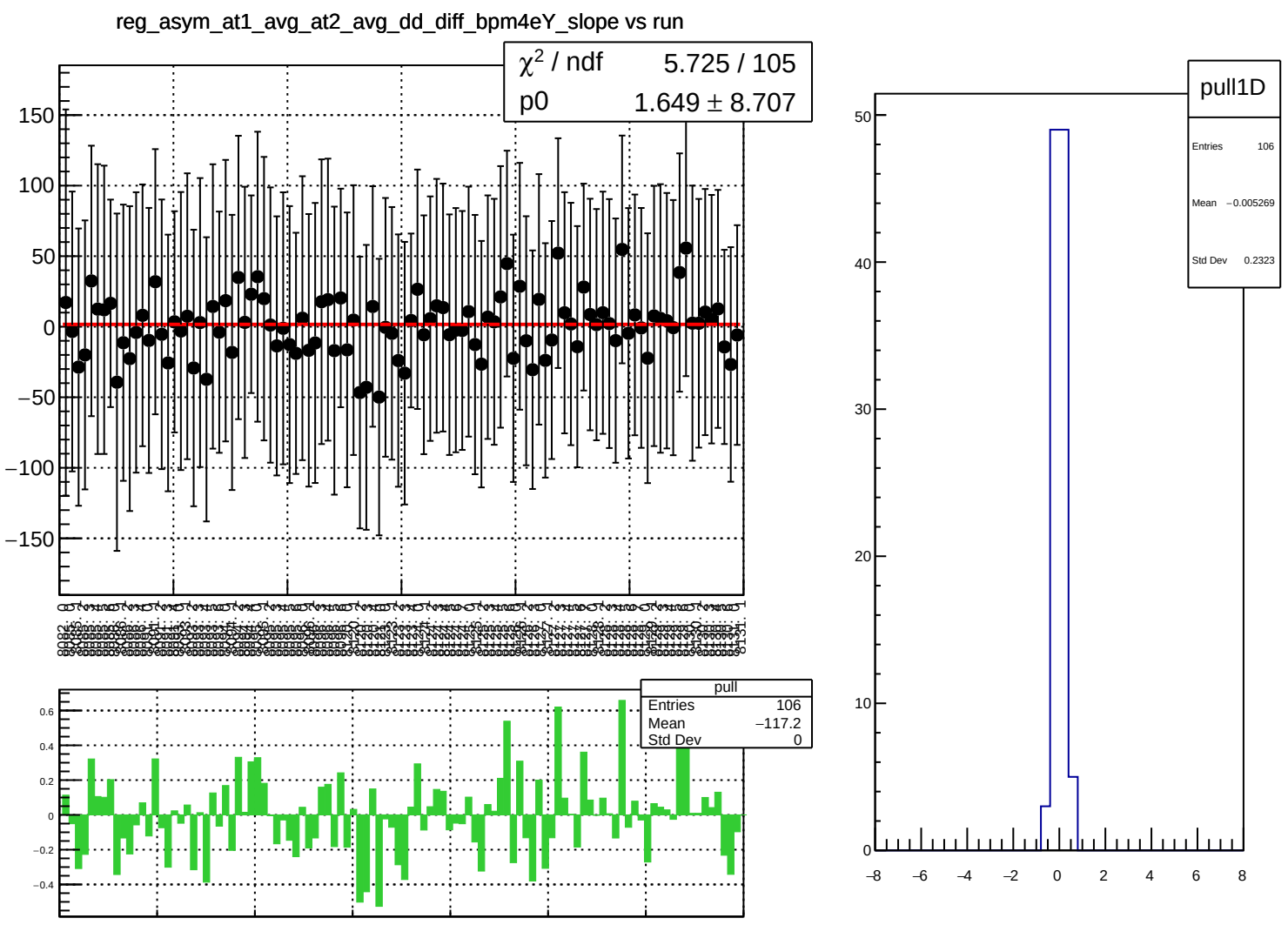

reg_asym_at1_avg_at2_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 6.237 / 105
p0 209.5 ± 5.565
300
250
200
150
100
pull
Entries 106
Mean 1161
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 106
Mean −0.001997
Std Dev 0.2426
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

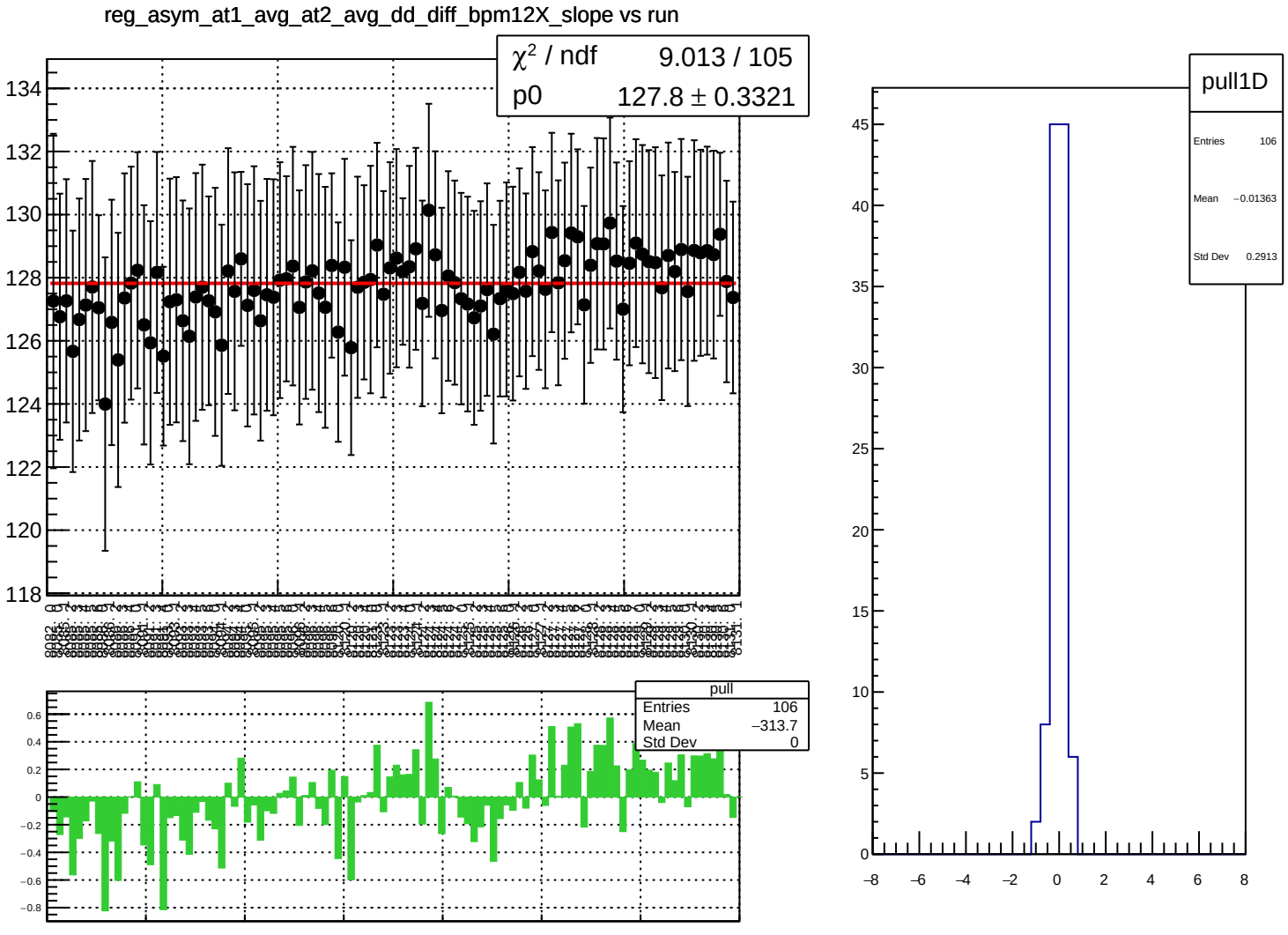

reg_asym_at1_avg_at2_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.637 / 105
p0 −59.44 ± 8.151
100
50
0
−50
−100
−150
−200
pull
Entries 106
Mean −77.59
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

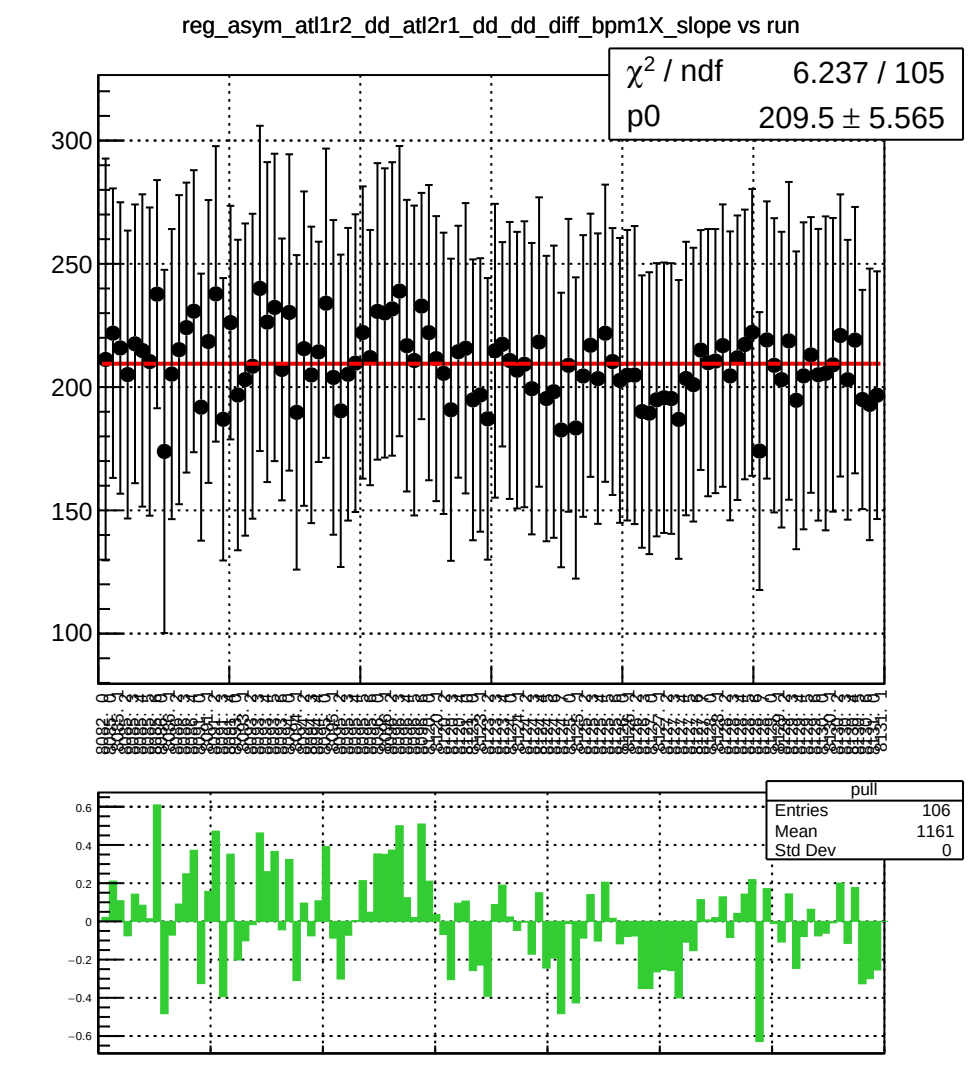

pull1D
Entries 106
Mean 0.004415
Std Dev 0.2306
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

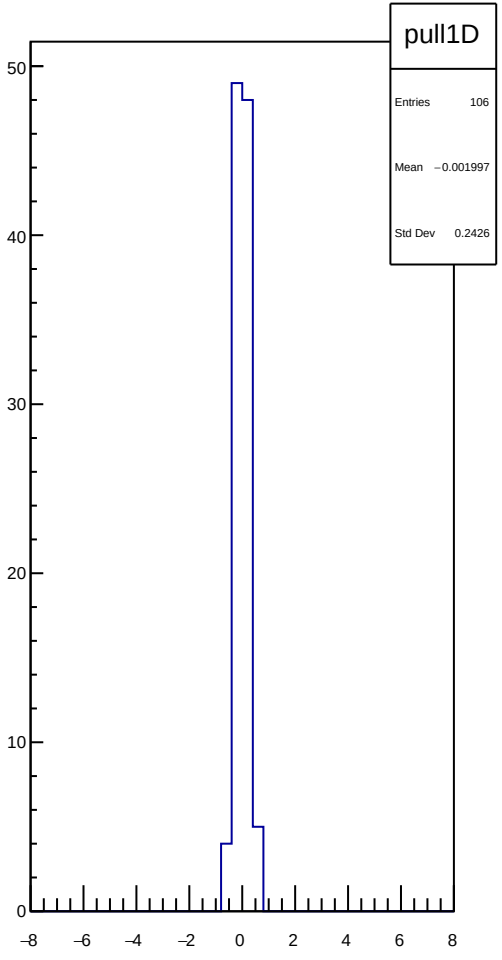

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.459 / 105
p0 −201.6 ± 5.286
−100
−150
−200
−250
−300
pull
Entries 106
Mean 2904
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6


pull1D
Entries 106
Mean 0.0009579
Std Dev 0.2468
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_at1_avg_at2_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.725 / 105
p0 1.649 ± 8.707
150
100
50
0
−50
−100
−150
pull
Entries 106
Mean −117.2
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 106
Mean −0.005269
Std Dev 0.2323
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 9.013 / 105
p0 127.8 ± 0.3321
pull
Entries 106
Mean −313.7
Std Dev 0
pull1D
Entries 106
Mean −0.01363
Std Dev 0.2913


reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 6.237 / 105
p0 209.5 ± 5.565
300
250
200
150
100
pull
Entries 106
Mean 1161
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6


pull1D
Entries 106
Mean −0.001997
Std Dev 0.2426
50
40
30
20
10
0
−8
−6
−4
−2
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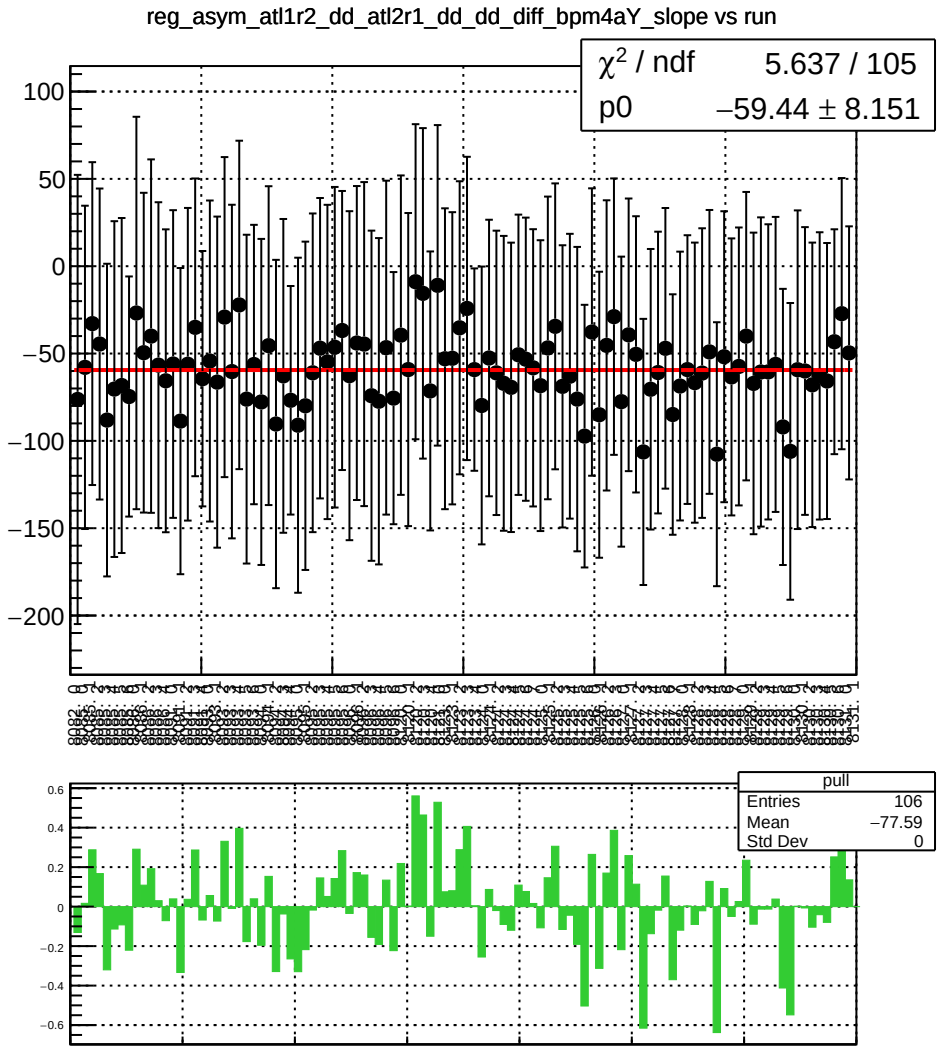
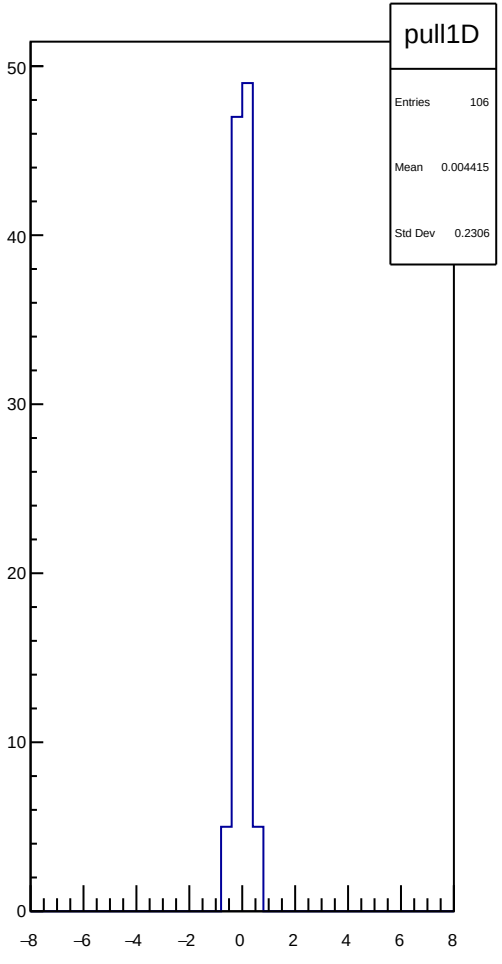
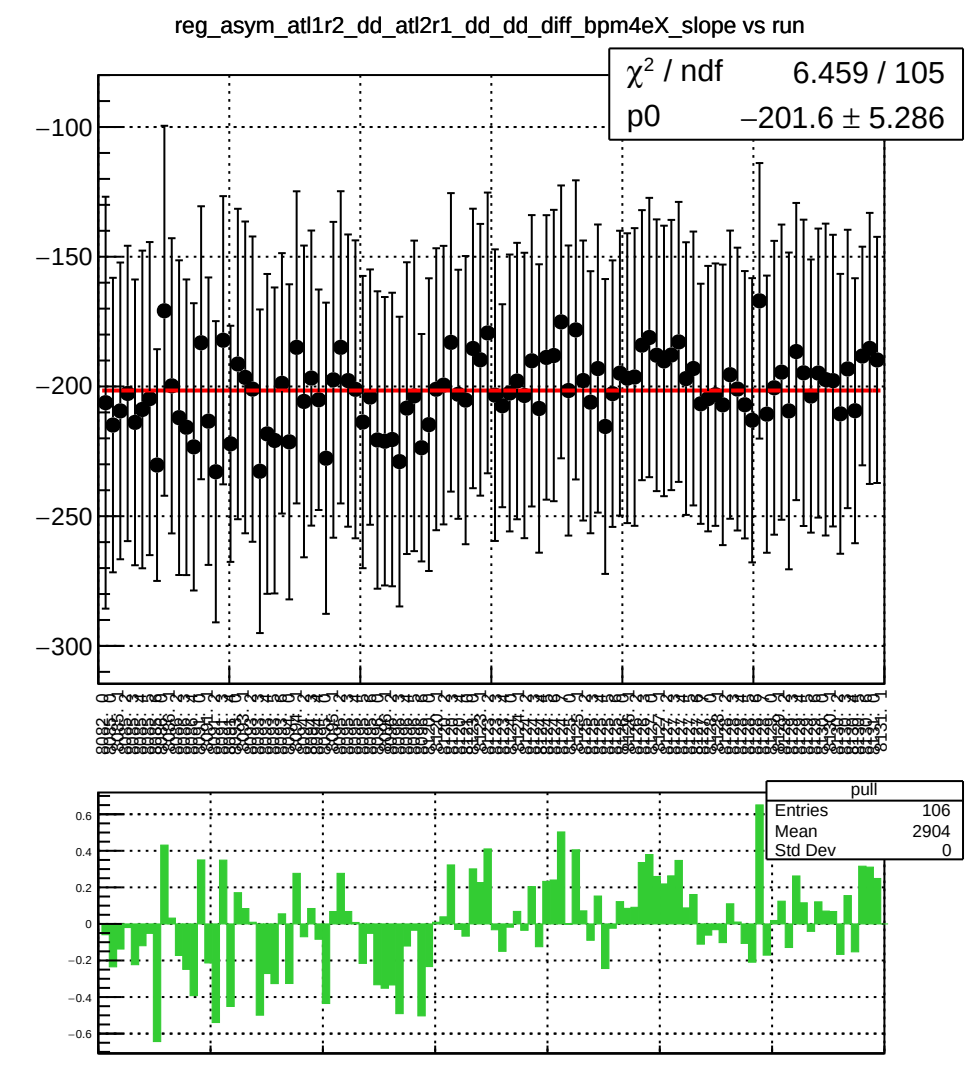
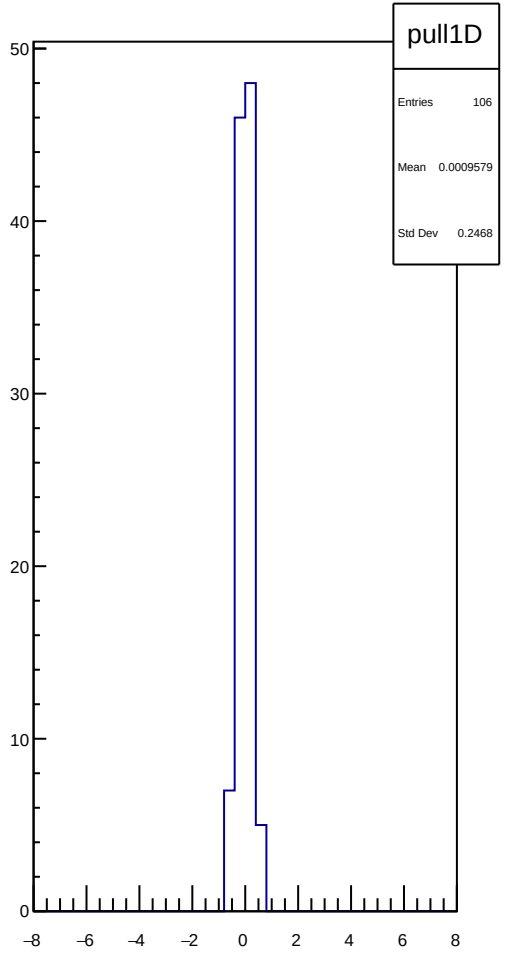
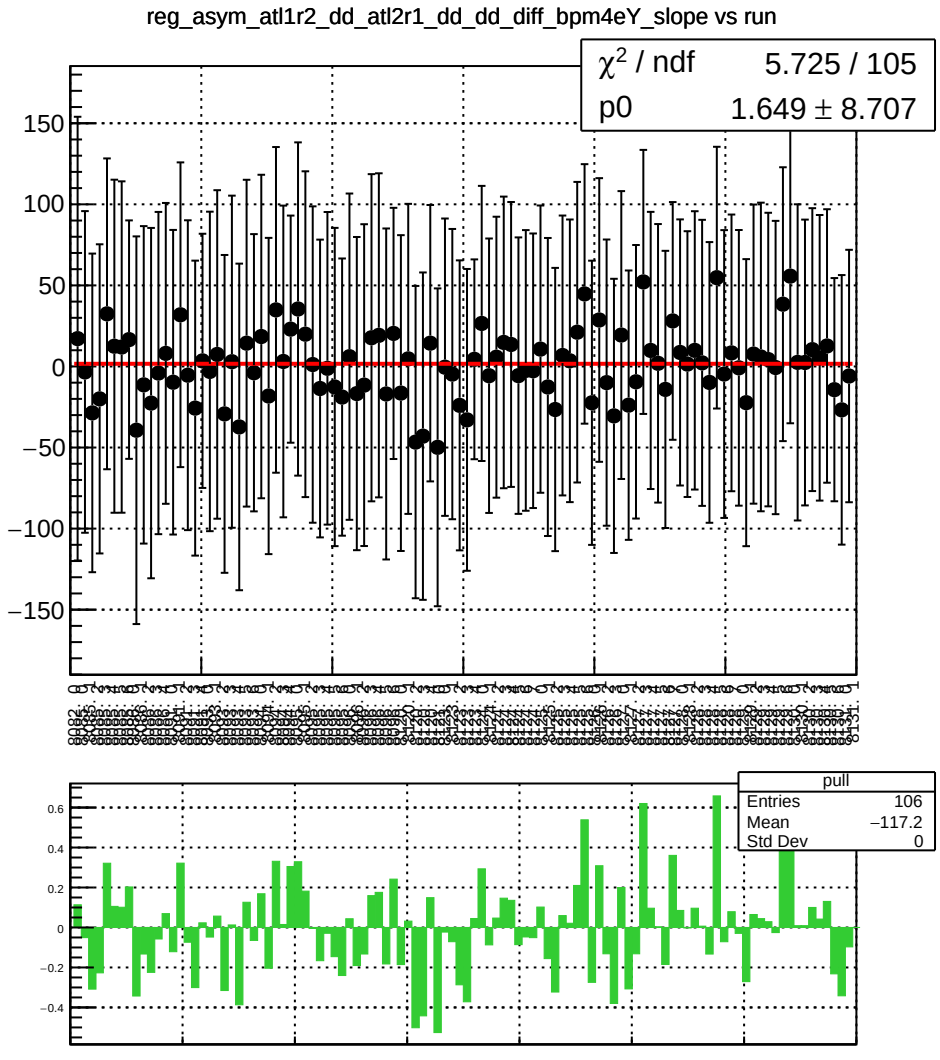
2
4
6
8

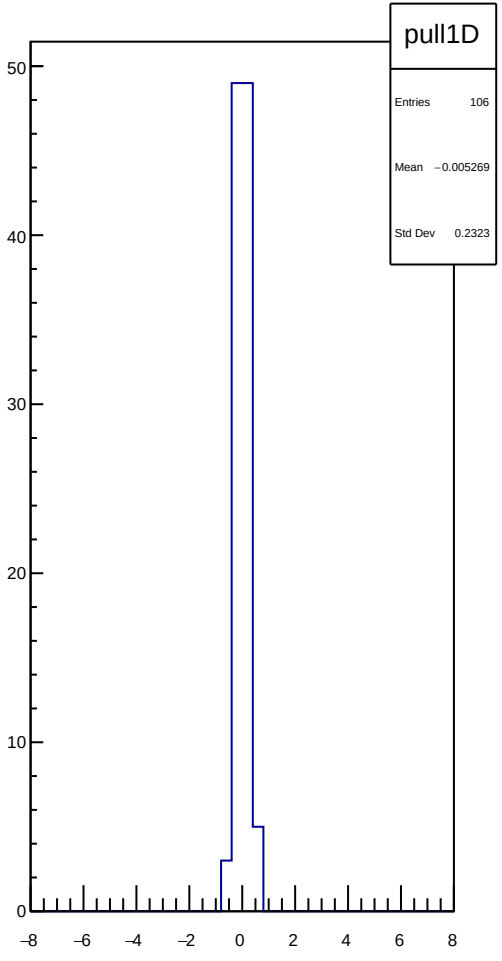

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.637 / 105
p0 −59.44 ± 8.151
pull
Entries 106
Mean −77.59
Std Dev 0

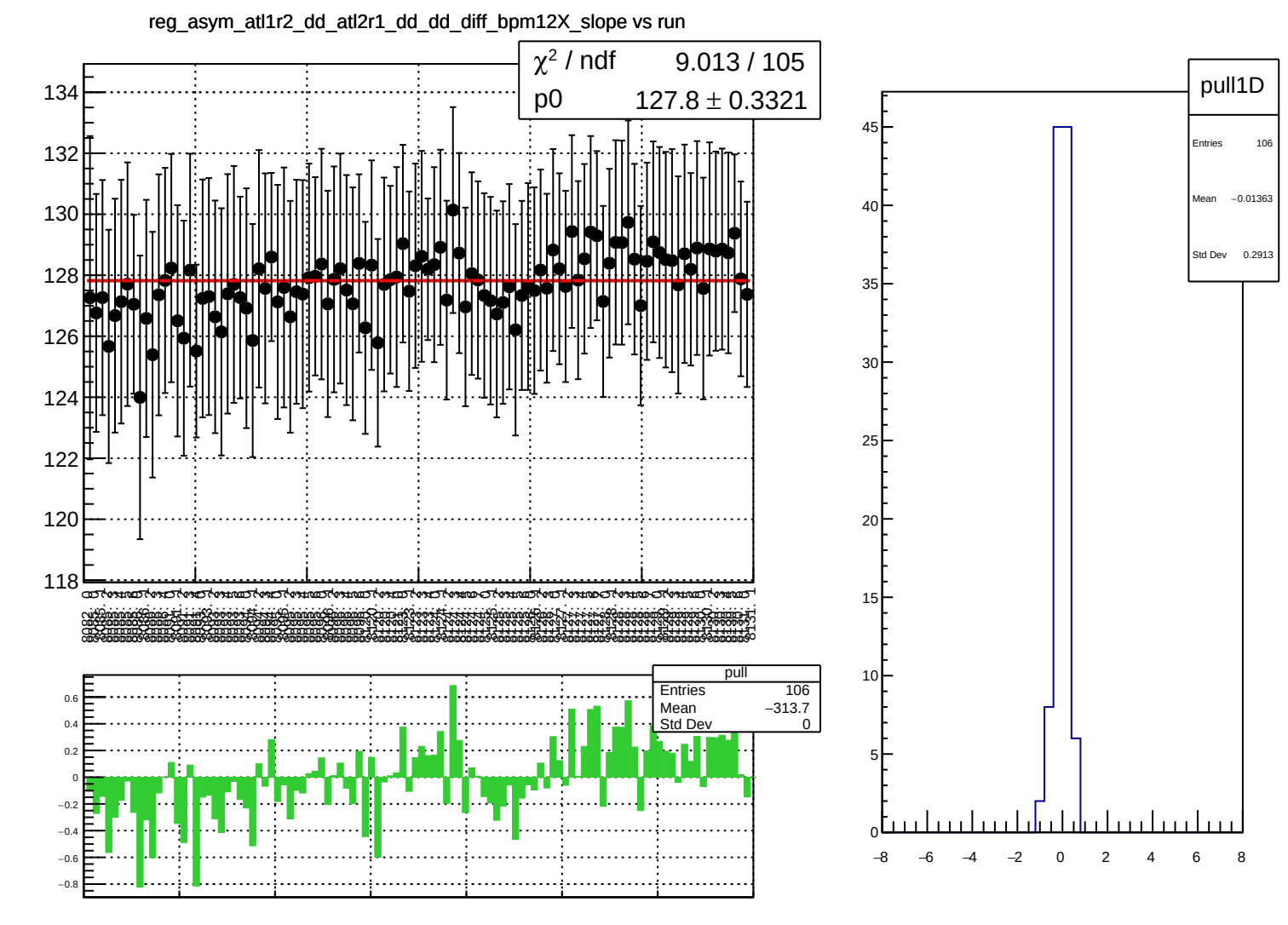

pull1D
Entries 106
Mean 0.004415
Std Dev 0.2306

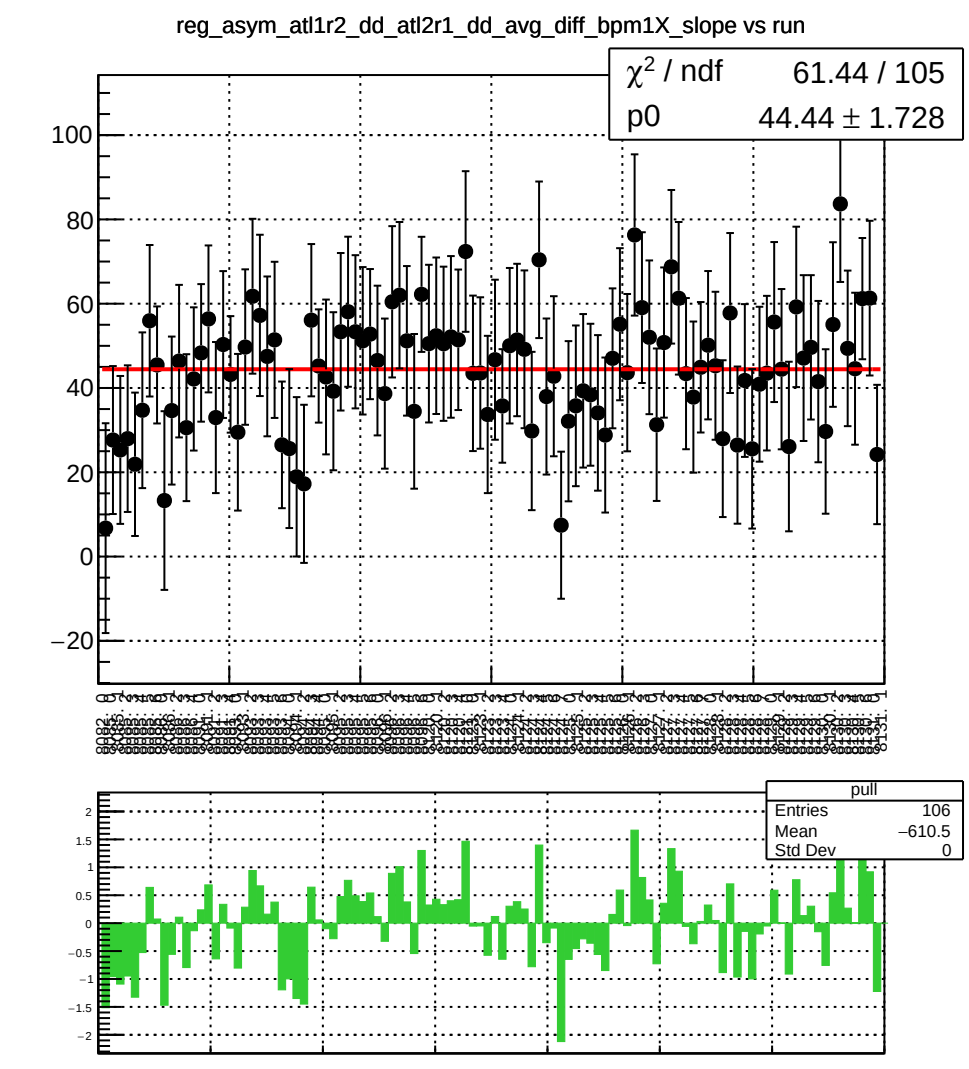

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.459 / 105
p0 −201.6 ± 5.286
−100
−150
−200
−250
−300
pull
Entries 106
Mean 2904
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

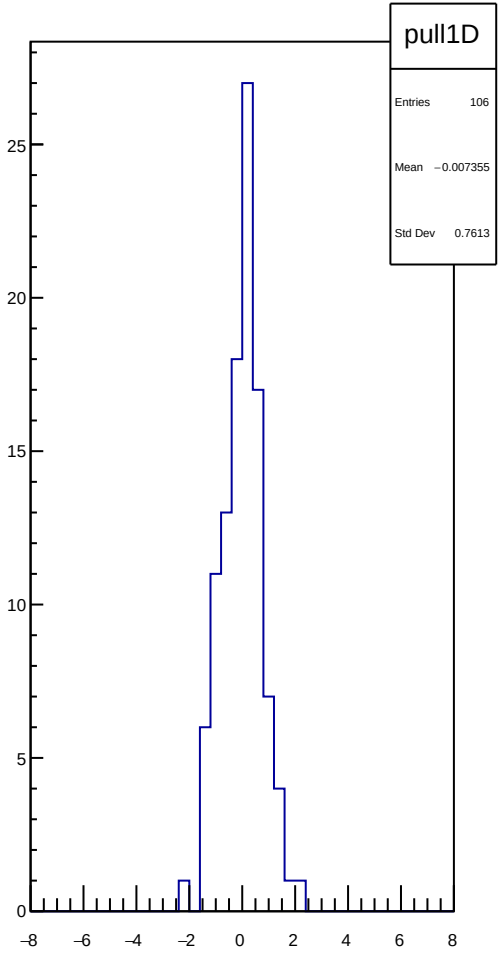

pull1D
Entries 106
Mean 0.0009579
Std Dev 0.2468
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

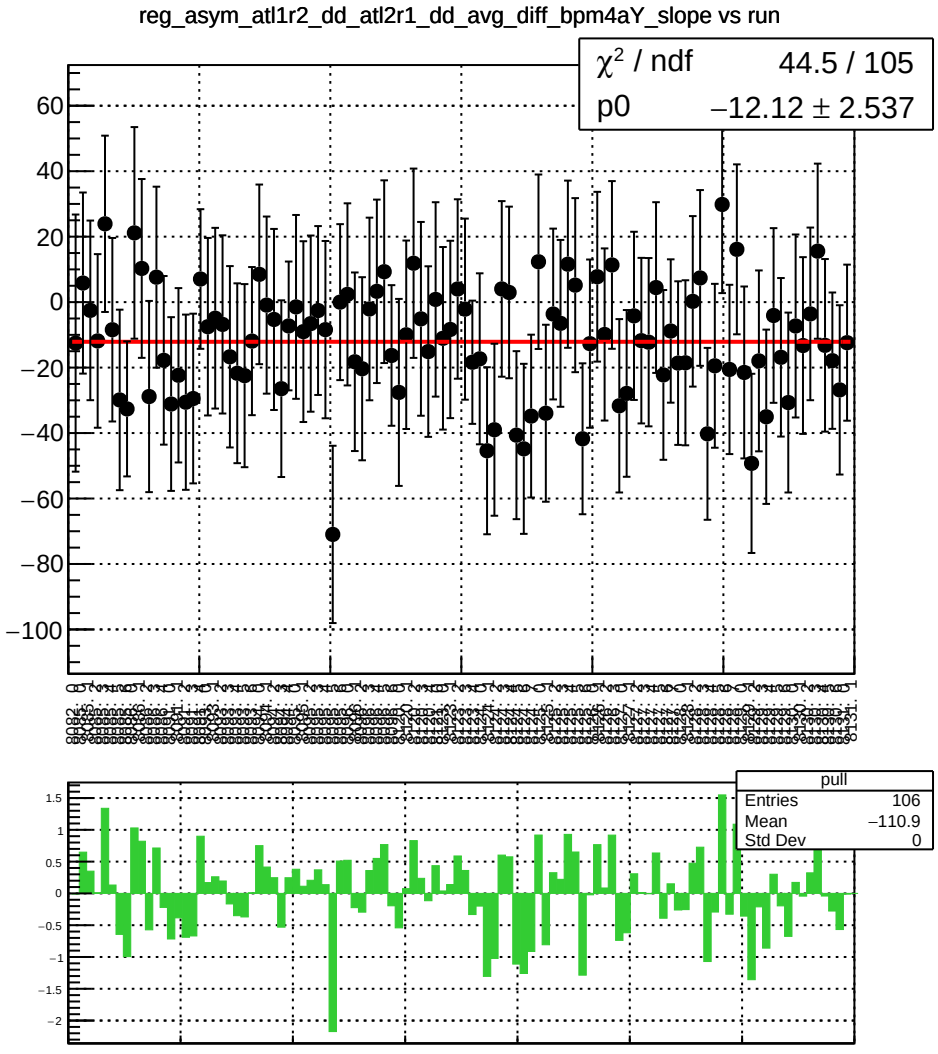

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.725 / 105
p0 1.649 ± 8.707
150
100
50
0
−50
−100
−150
pull
Entries 106
Mean −117.2
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4

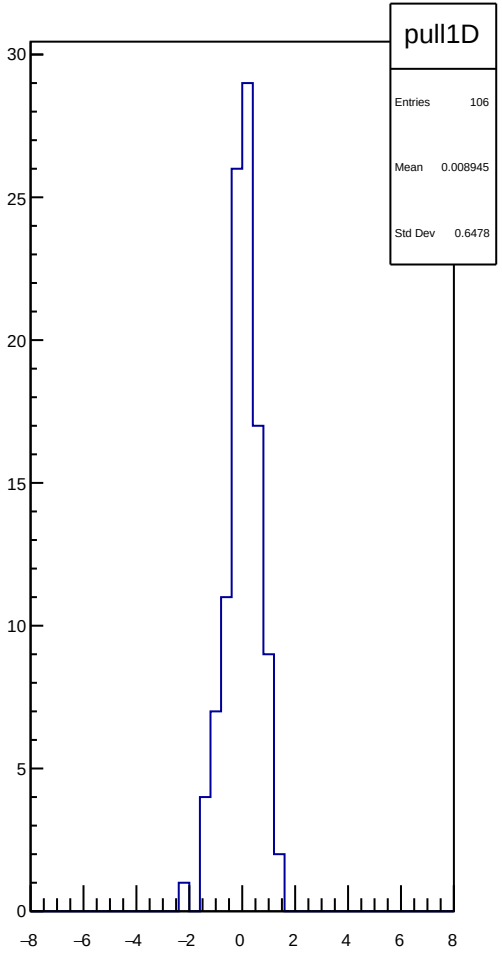

pull1D
Entries 106
Mean −0.005269
Std Dev 0.2323
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

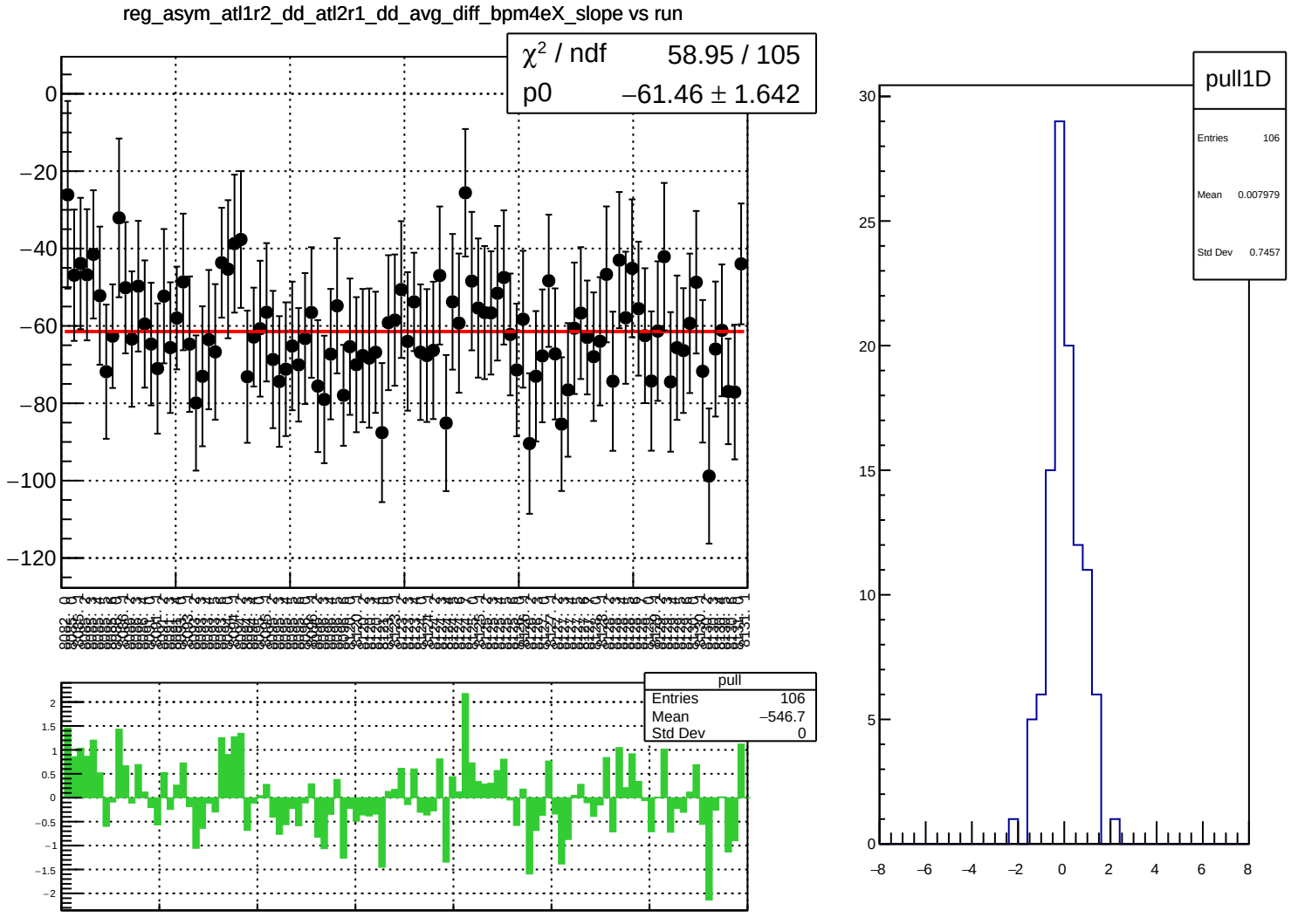

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 9.013 / 105
p0 127.8 ± 0.3321
pull
Entries 106
Mean −313.7
Std Dev 0
pull1D
Entries 106
Mean −0.01363
Std Dev 0.2913

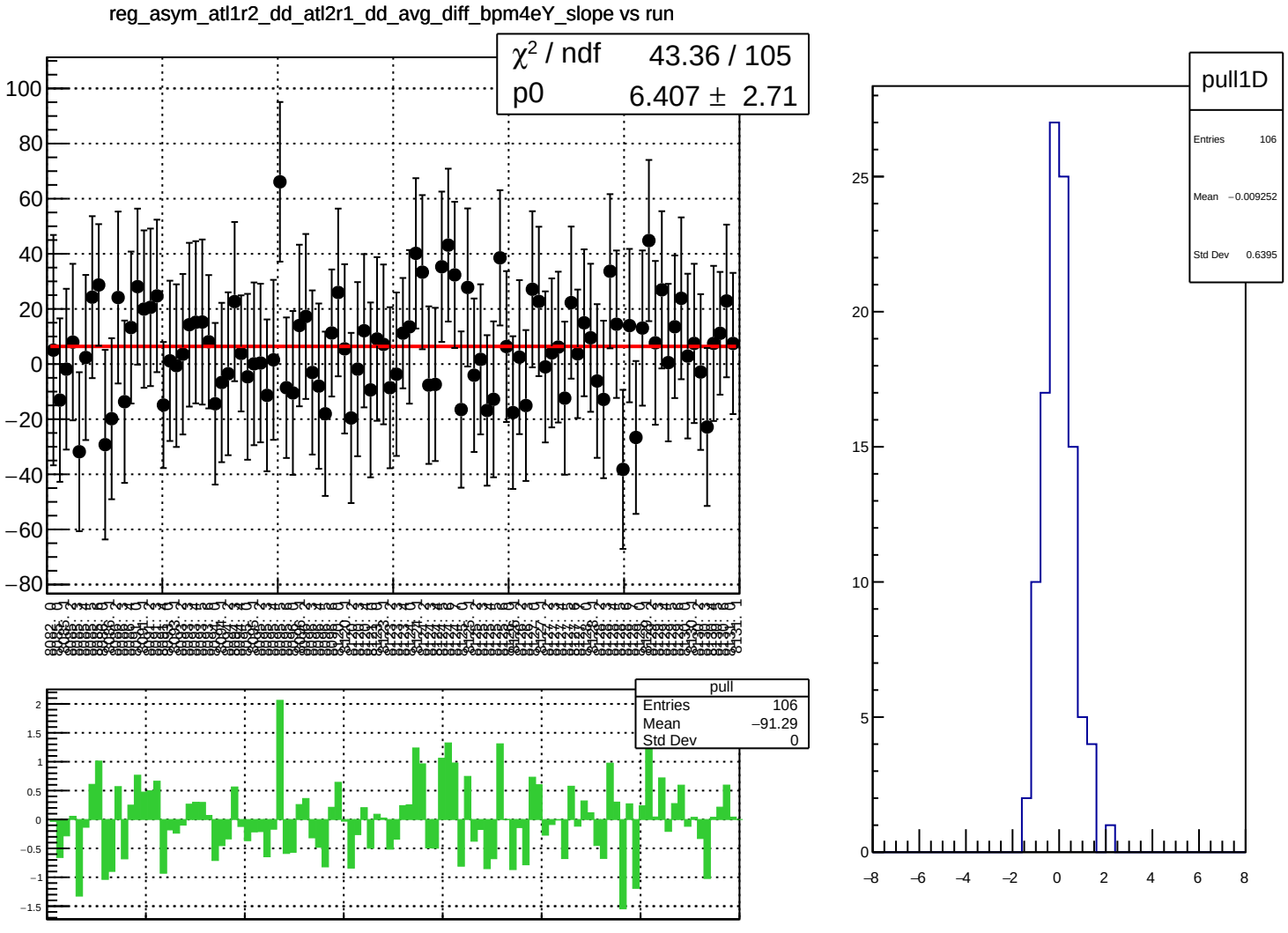

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 61.44 / 105
p0 44.44 ± 1.728
pull
Entries 106
Mean −610.5
Std Dev 0

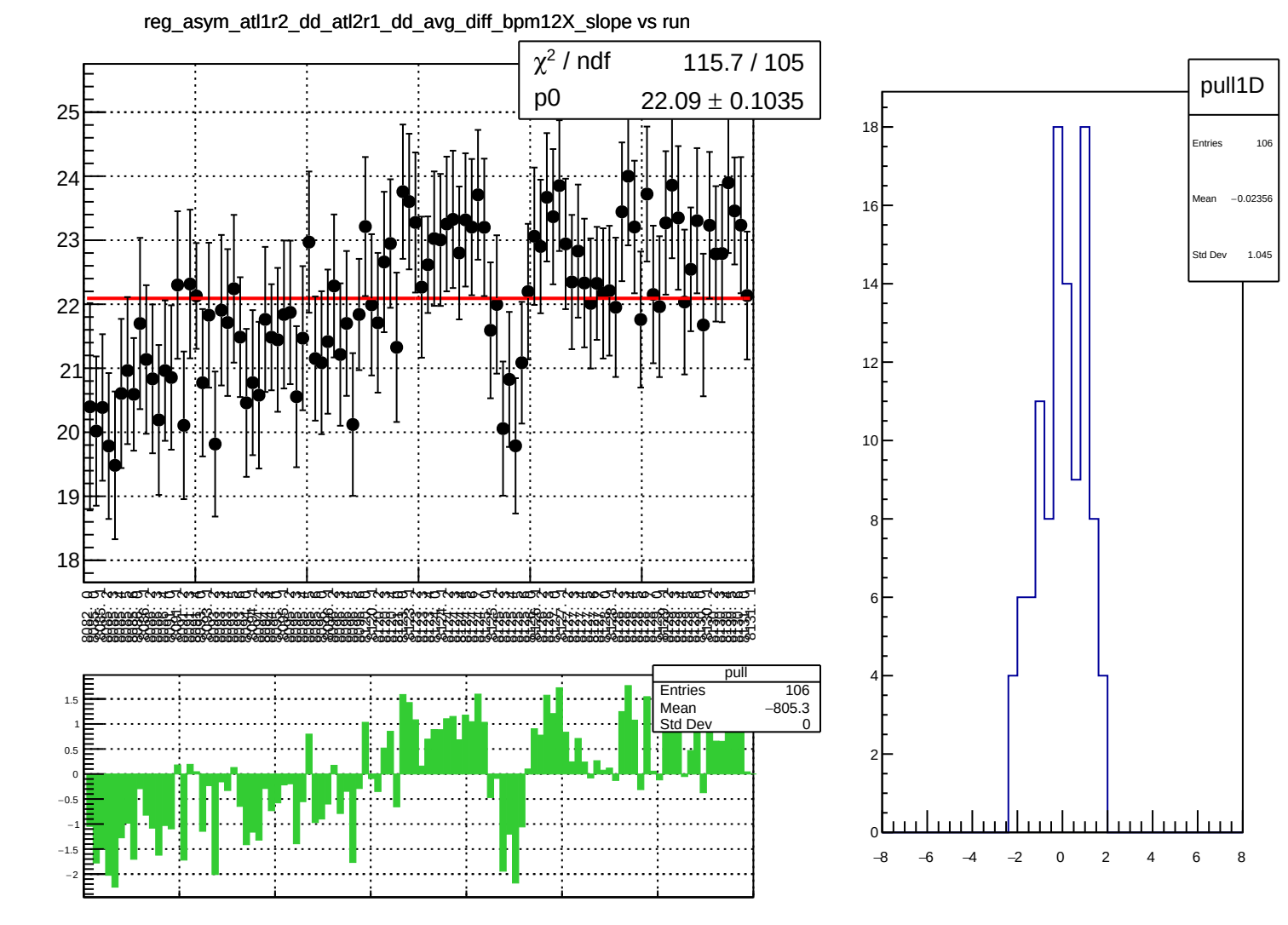

pull1D
Entries 106
Mean −0.007355
Std Dev 0.7613

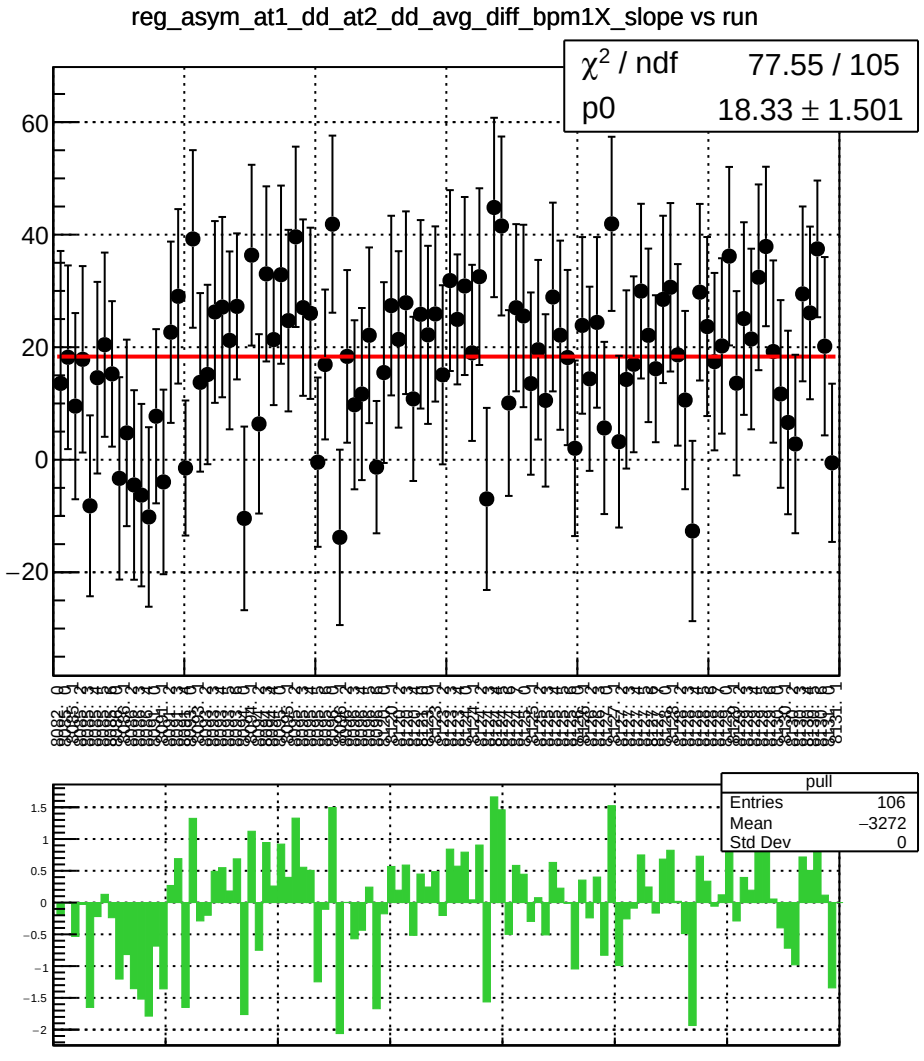

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 44.5 / 105
p0 −12.12 ± 2.537
pull
Entries 106
Mean −110.9
Std Dev 0

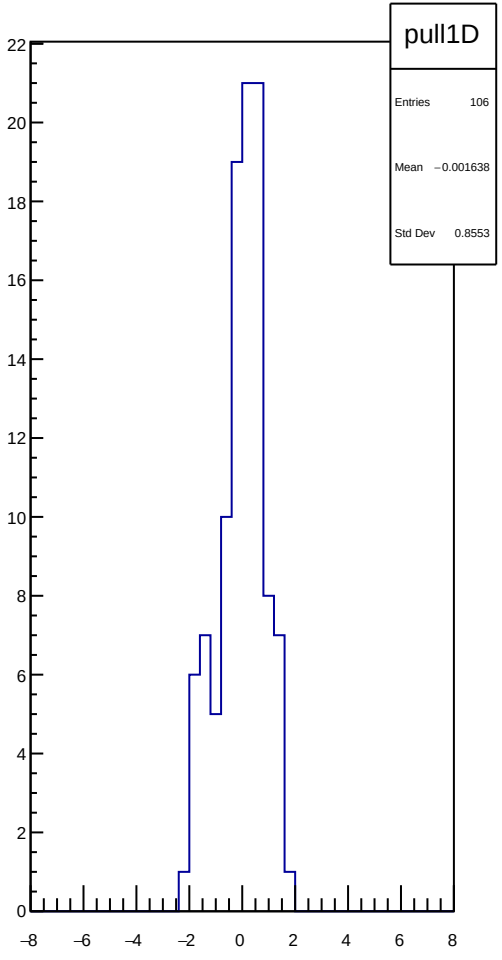

pull1D
Entries 106
Mean 0.008945
Std Dev 0.6478

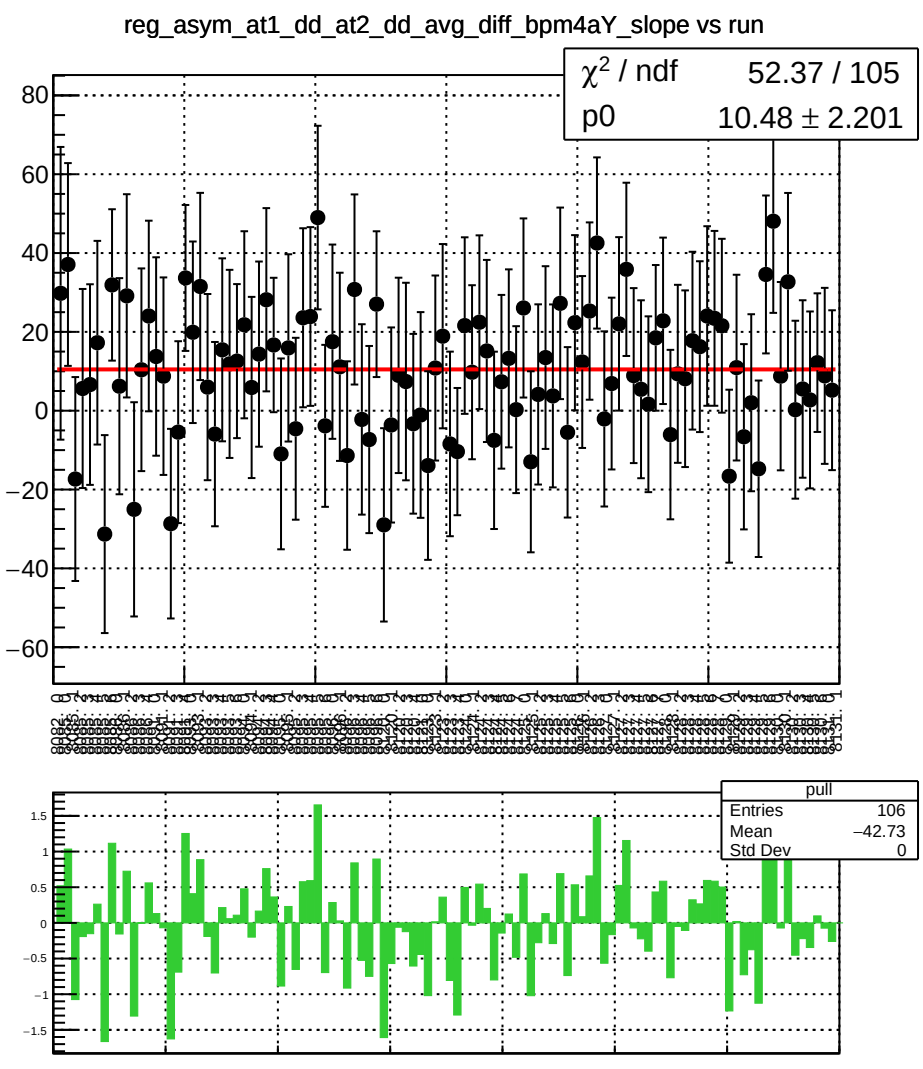

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 58.95 / 105
p0 −61.46 ± 1.642
0
−20
−40
−60
−80
−100
−120
pull
Entries 106
Mean −546.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 106
Mean 0.007979
Std Dev 0.7457
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

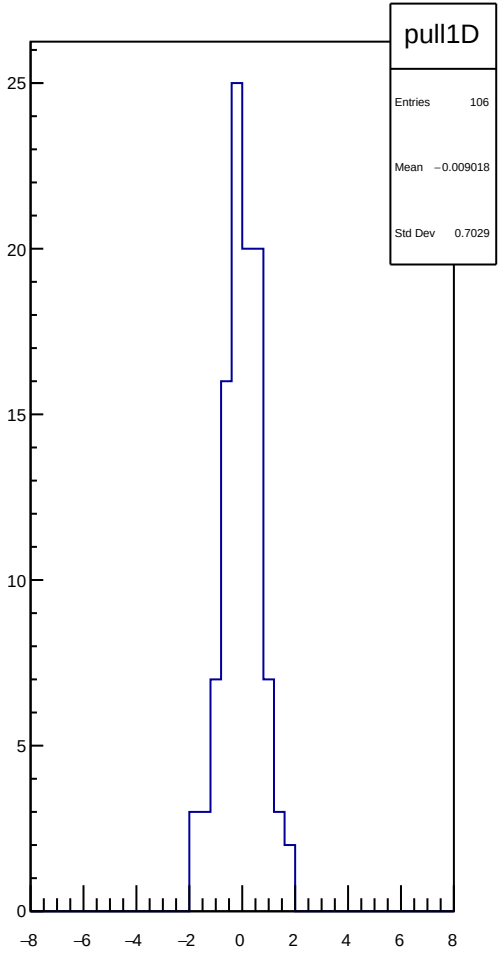

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 43.36 / 105
p0 6.407 ± 2.71
pull
Entries 106
Mean −91.29
Std Dev 0
pull1D
Entries 106
Mean −0.009252
Std Dev 0.6395

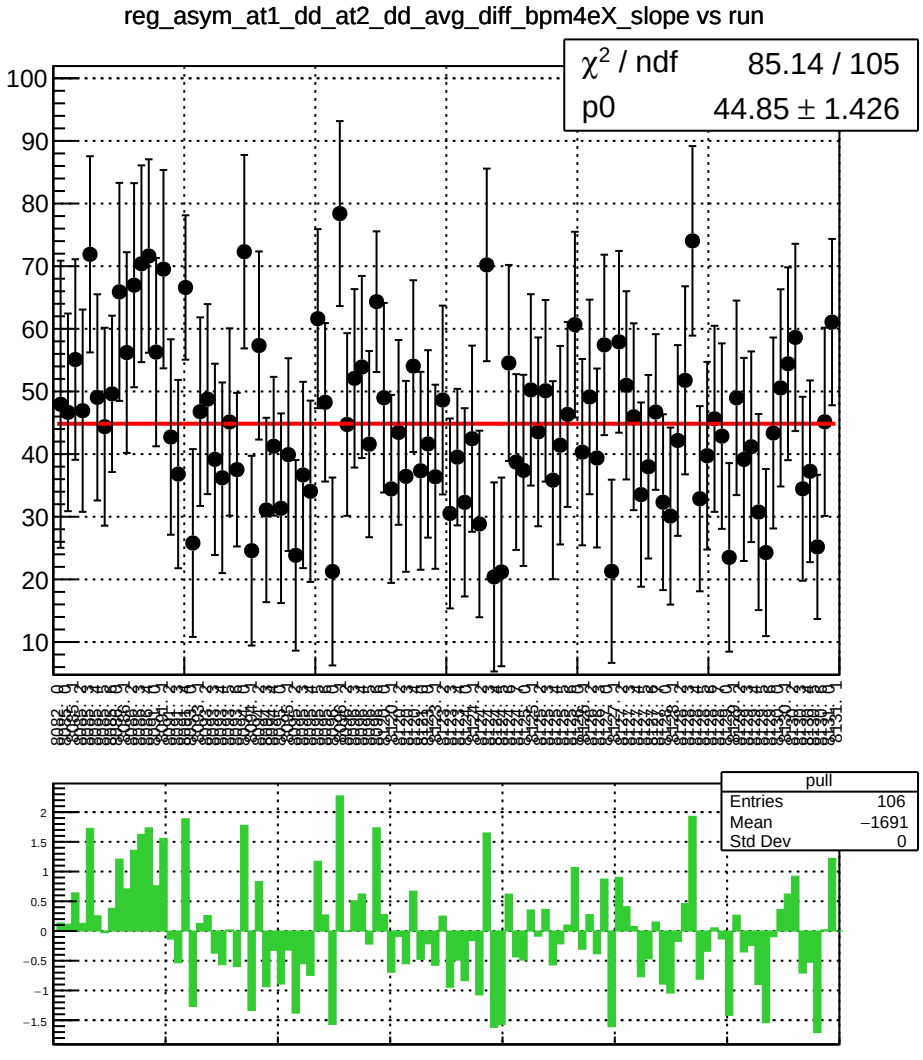

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 115.7 / 105
p0 22.09 ± 0.1035
pull
Entries 106
Mean −805.3
Std Dev 0
pull1D
Entries 106
Mean −0.02356
Std Dev 1.045

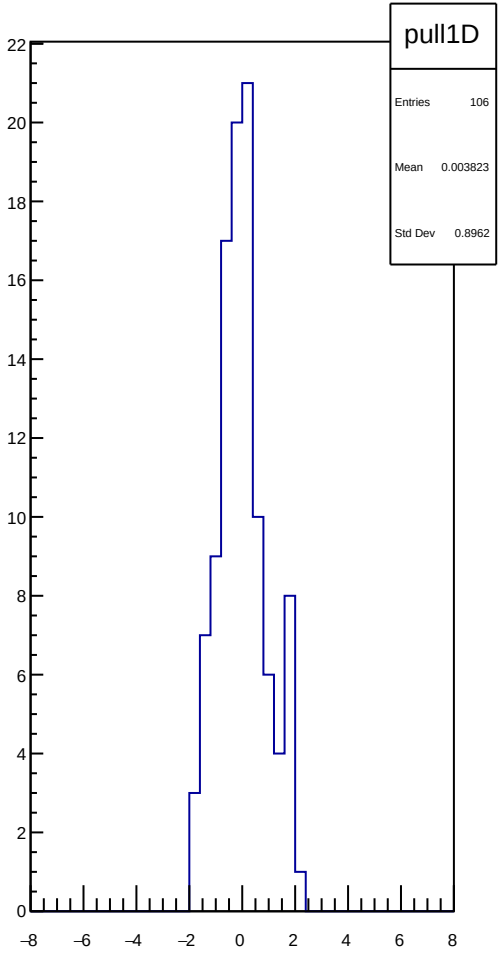

reg_asym_at1_dd_at2_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 77.55 / 105
p0 18.33 ± 1.501
pull
Entries 106
Mean −3272
Std Dev 0

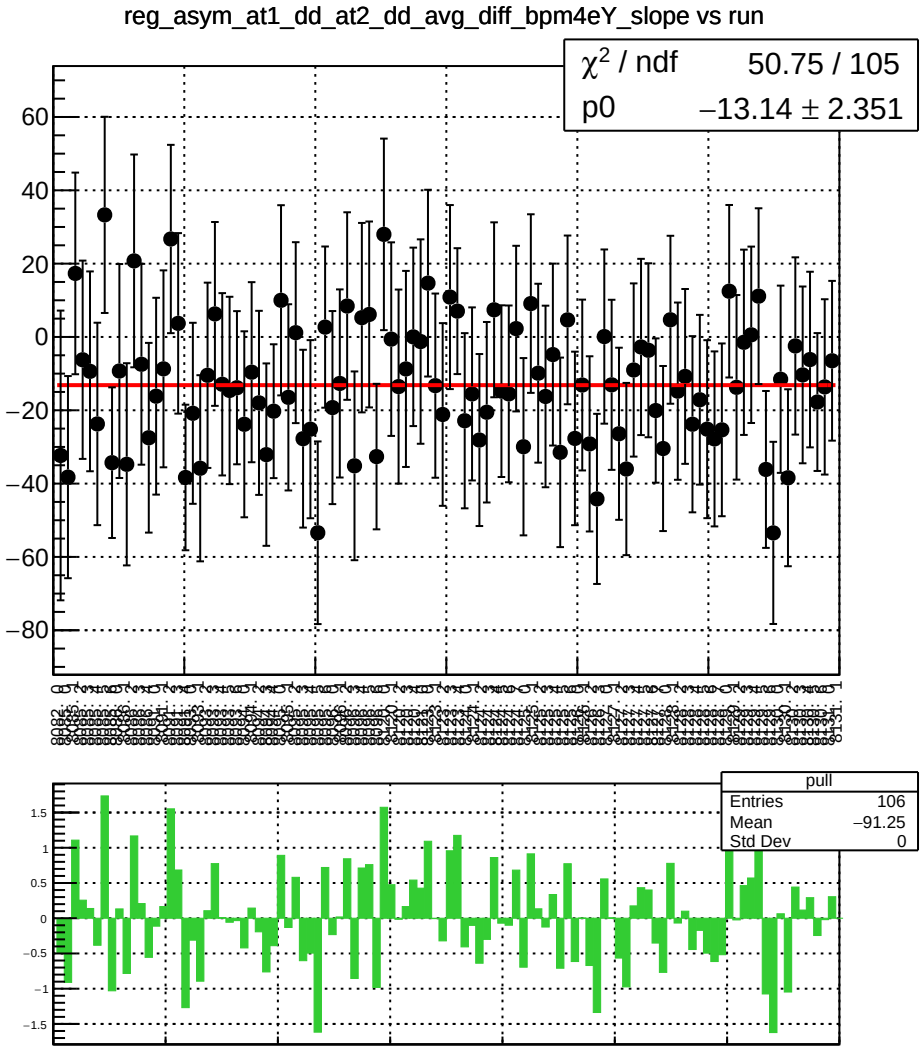

pull1D
Entries 106
Mean −0.001638
Std Dev 0.8553

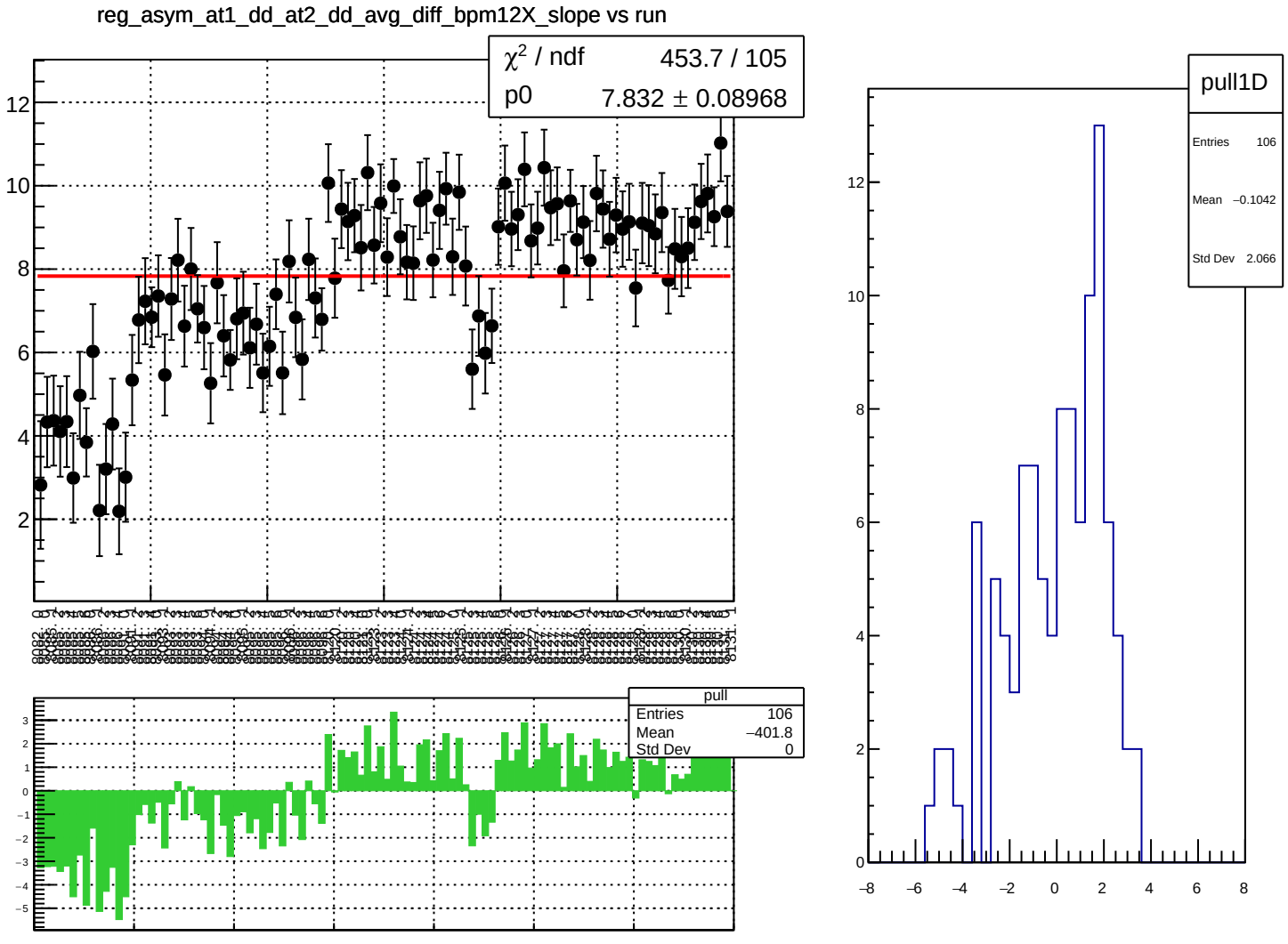

reg_asym_at1_dd_at2_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 52.37 / 105
p0 10.48 ± 2.201
pull
Entries 106
Mean −42.73
Std Dev 0

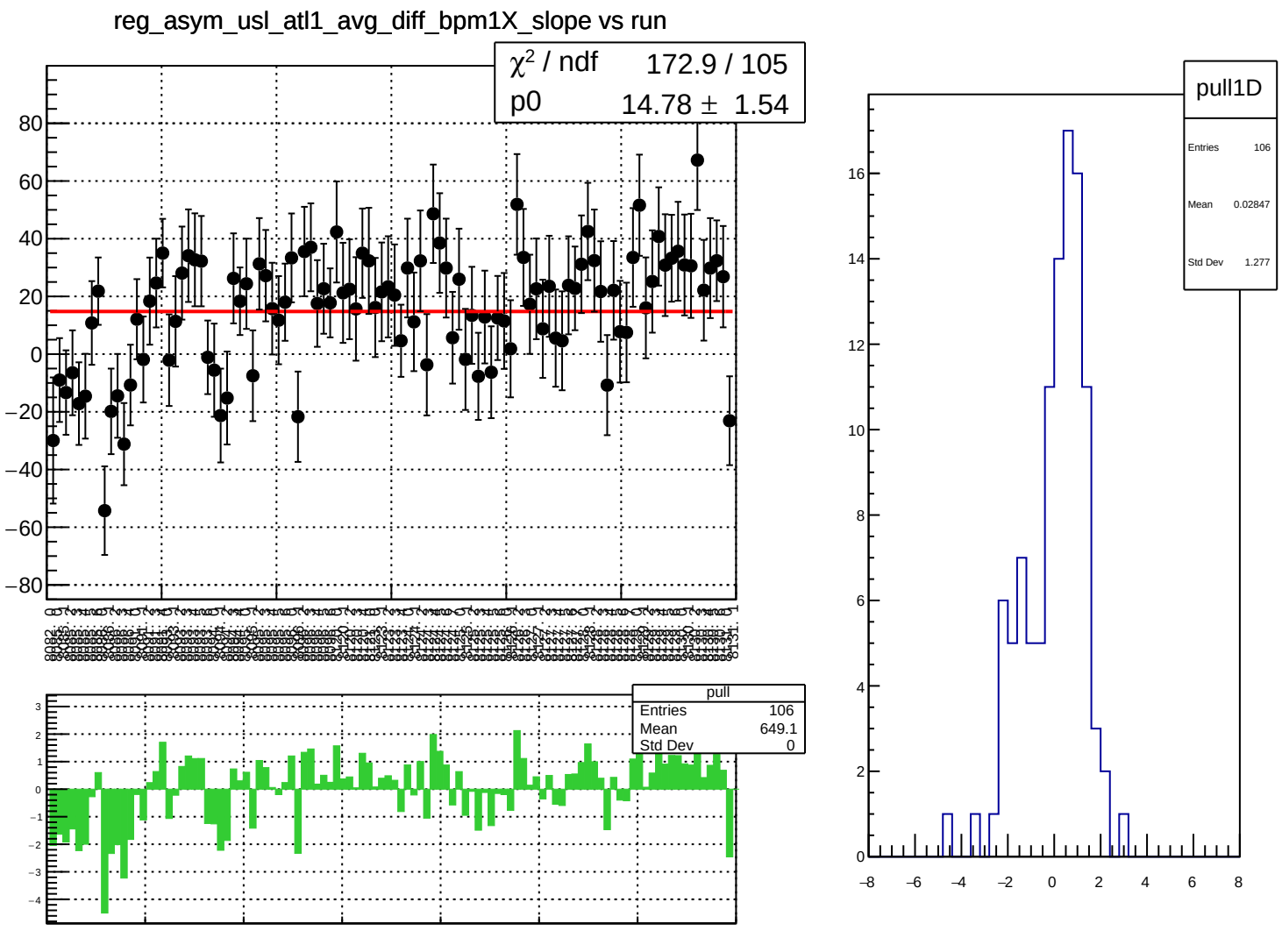

pull1D
Entries 106
Mean −0.009018
Std Dev 0.7029

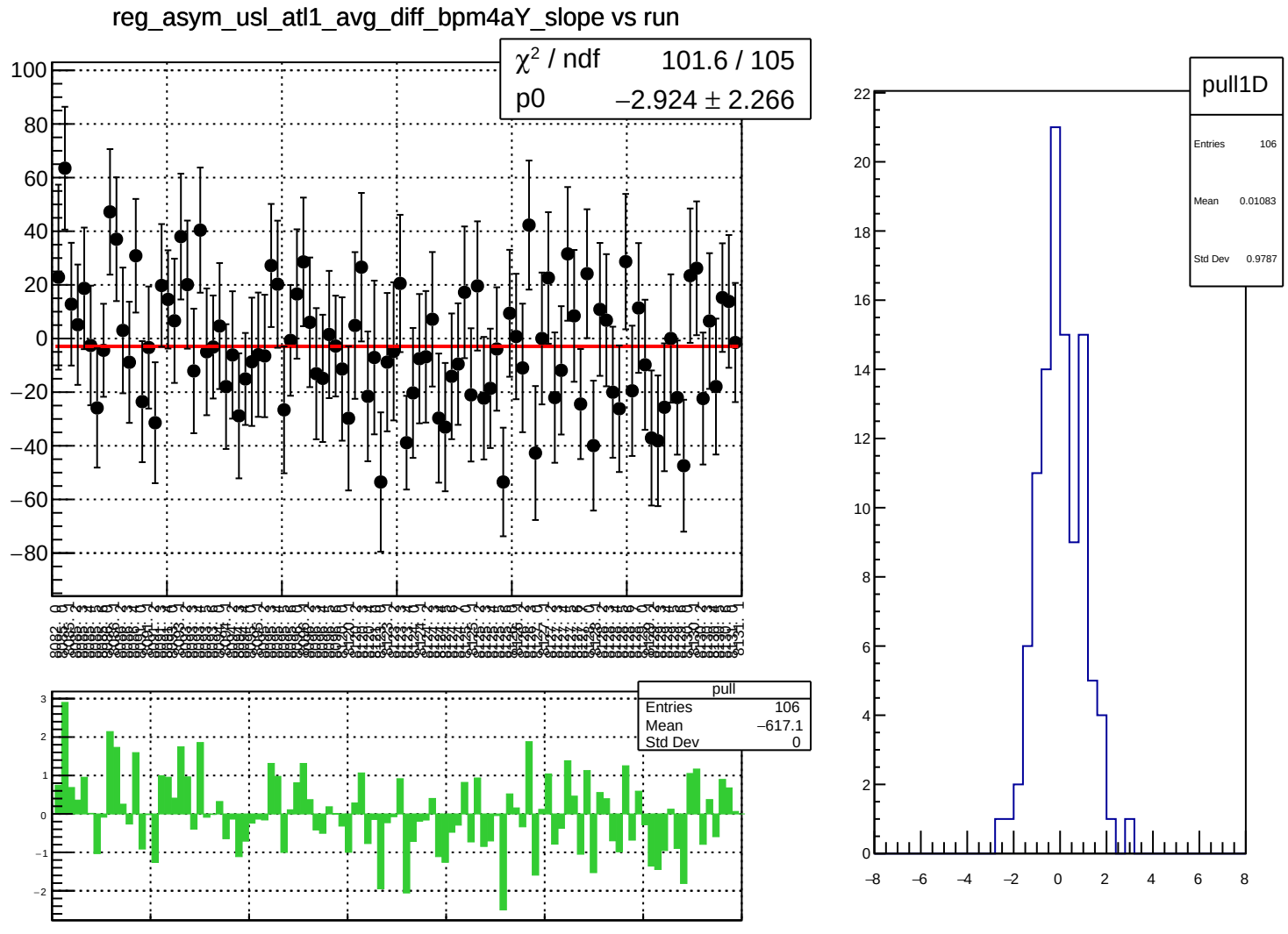

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 85.14 / 105
p0 44.85 ± 1.426
pull
Entries 106
Mean −1691
Std Dev 0

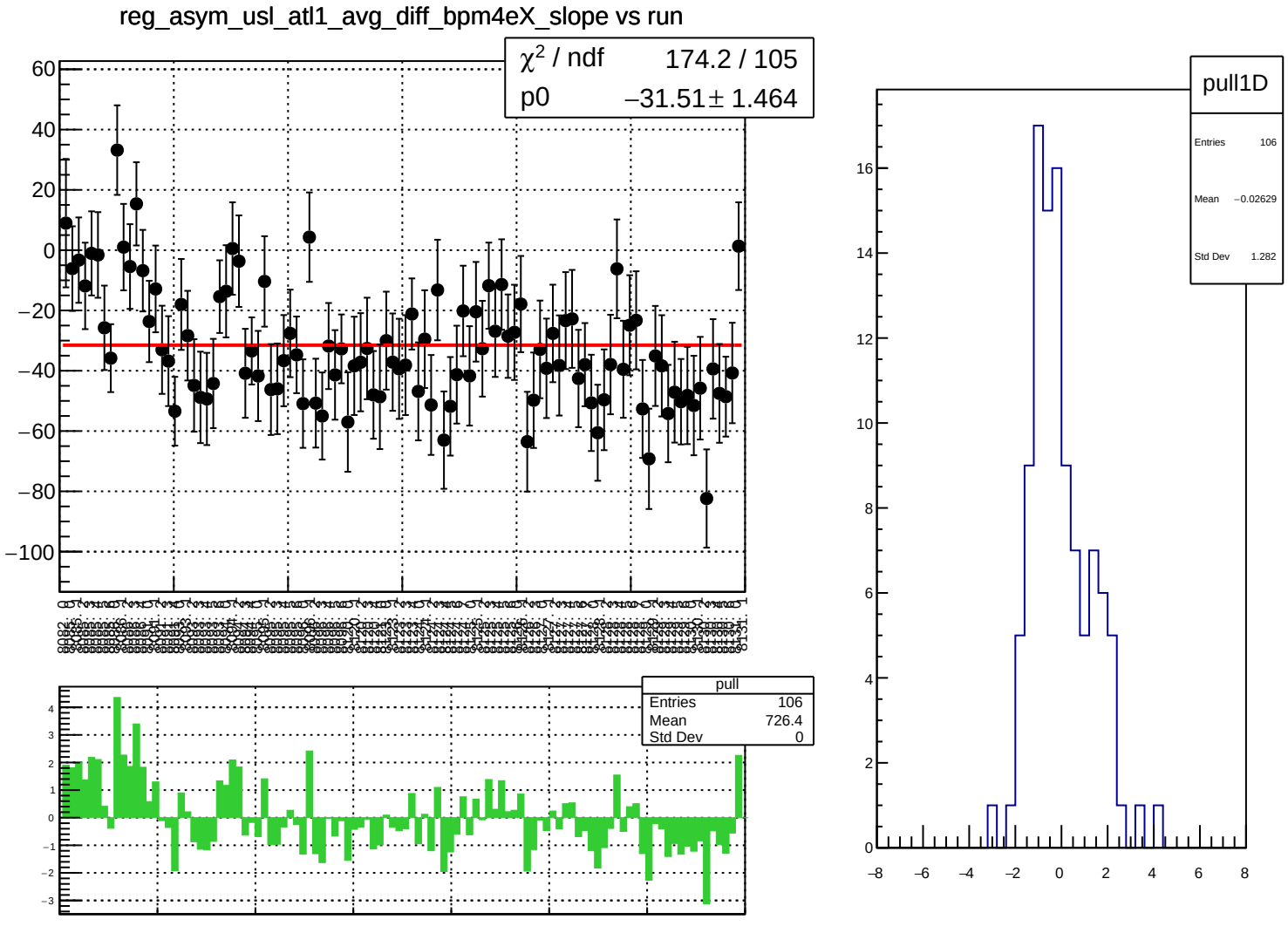

pull1D
Entries 106
Mean 0.003823
Std Dev 0.8962

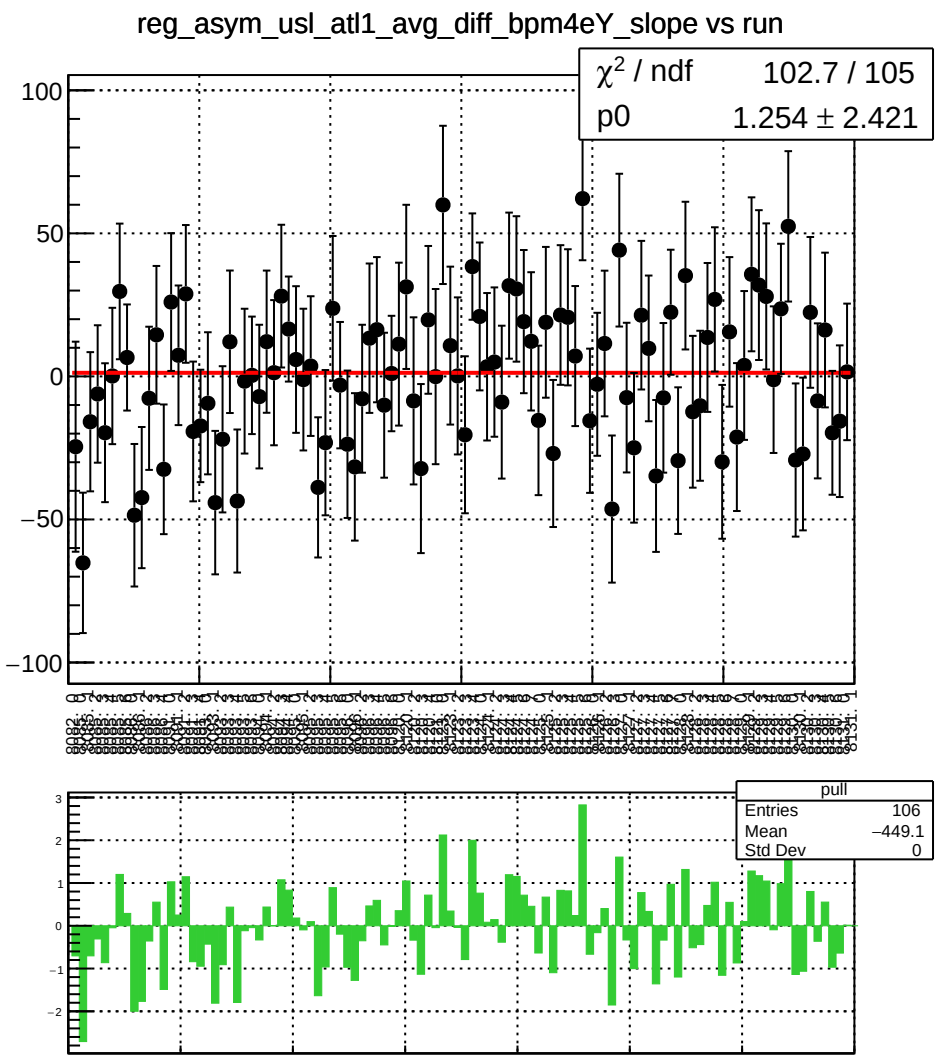

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 50.75 / 105
p0 −13.14 ± 2.351
pull
Entries 106
Mean −91.25
Std Dev 0
pull1D
Entries 106
Mean 0.009557
Std Dev 0.6919

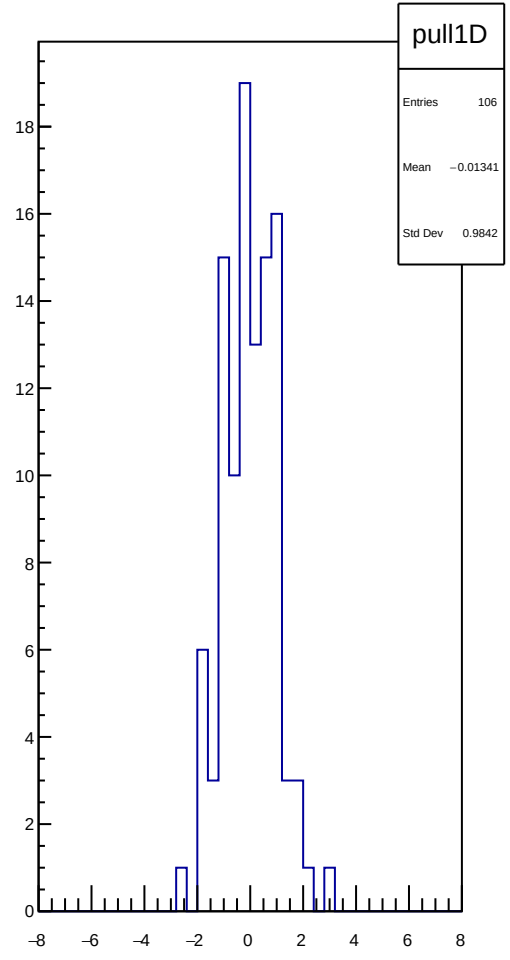

reg_asym_at1_dd_at2_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 453.7 / 105
p0 7.832 ± 0.08968
pull
Entries 106
Mean −401.8
Std Dev 0
pull1D
Entries 106
Mean −0.1042
Std Dev 2.066

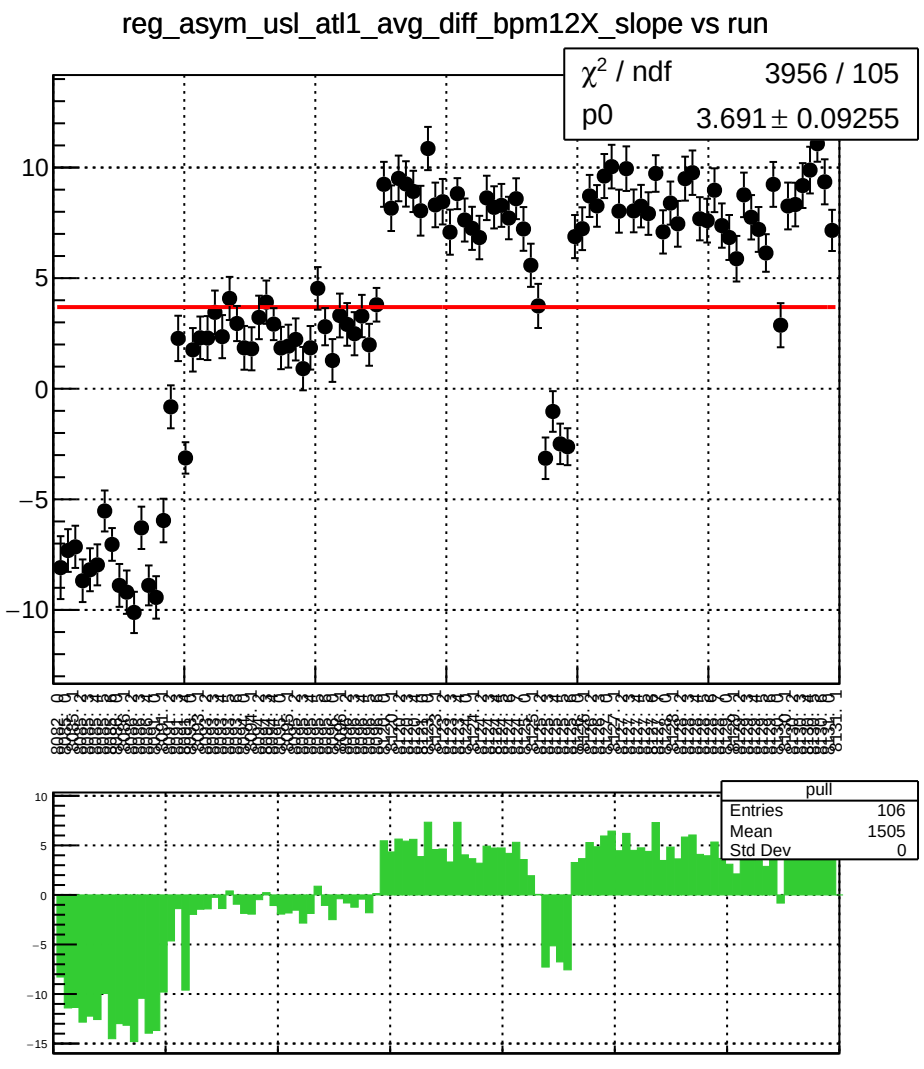

reg_asym_usl_atl1_avg_diff_bpm1X_slope vs run
χ² / ndf 172.9 / 105
p0 14.78 ± 1.54
pull
Entries 106
Mean 649.1
Std Dev 0
pull1D
Entries 106
Mean 0.02847
Std Dev 1.277

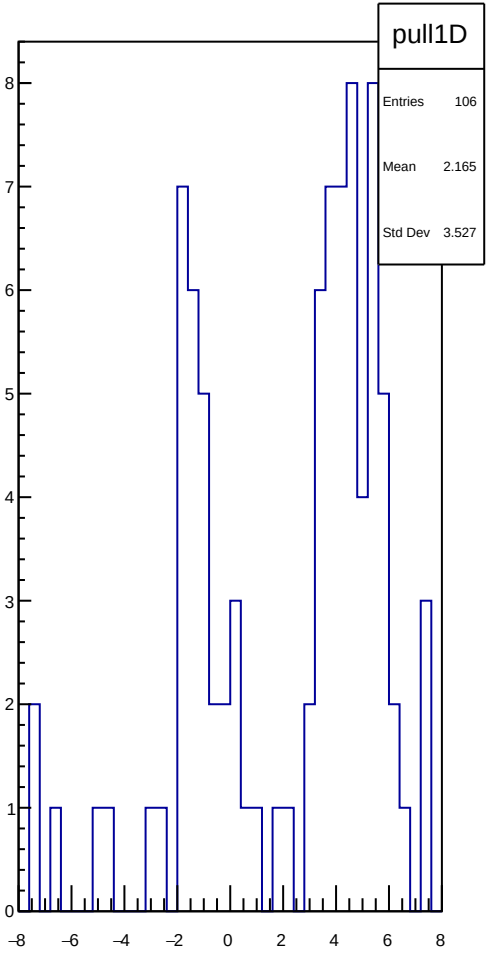

reg_asym_usl_atl1_avg_diff_bpm4aY_slope vs run
χ² / ndf 101.6 / 105
p0 −2.924 ± 2.266
pull
Entries 106
Mean −617.1
Std Dev 0
pull1D
Entries 106
Mean 0.01083
Std Dev 0.9787

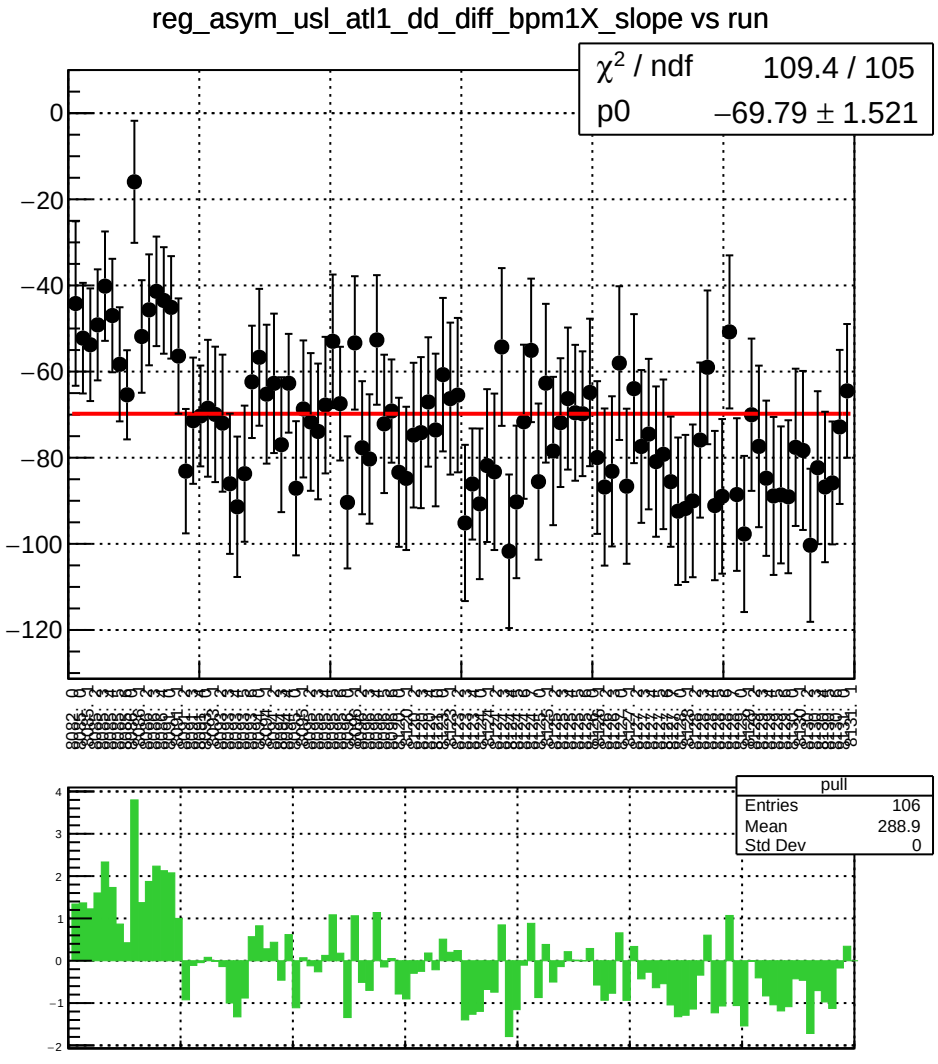

reg_asym_usl_atl1_avg_diff_bpm4eX_slope vs run
χ² / ndf 174.2 / 105
p0 −31.51 ± 1.464
pull
Entries 106
Mean 726.4
Std Dev 0
pull1D
Entries 106
Mean −0.02629
Std Dev 1.282

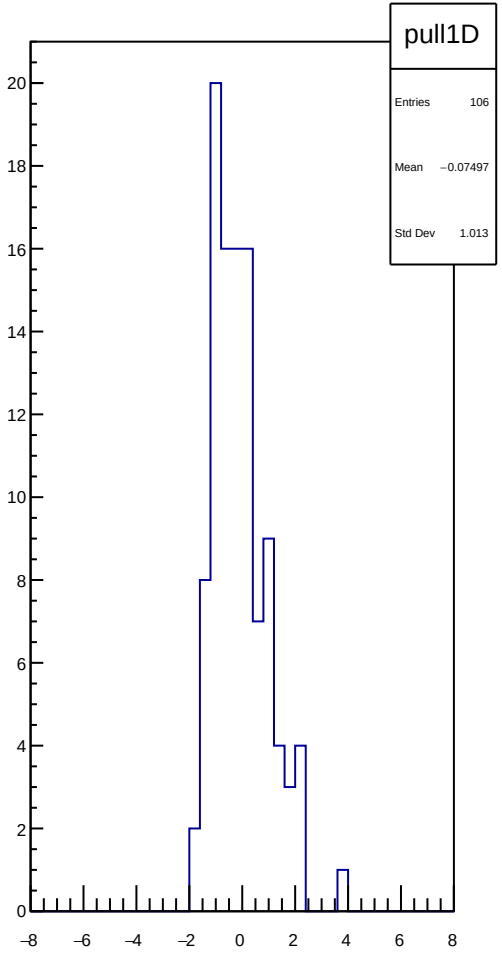

reg_asym_usl_atl1_avg_diff_bpm4eY_slope vs run
χ² / ndf 102.7 / 105
p0 1.254 ± 2.421
100
50
0
−50
−100
pull
Entries 106
Mean −449.1
Std Dev 0
3
2
1
0
−1
−2

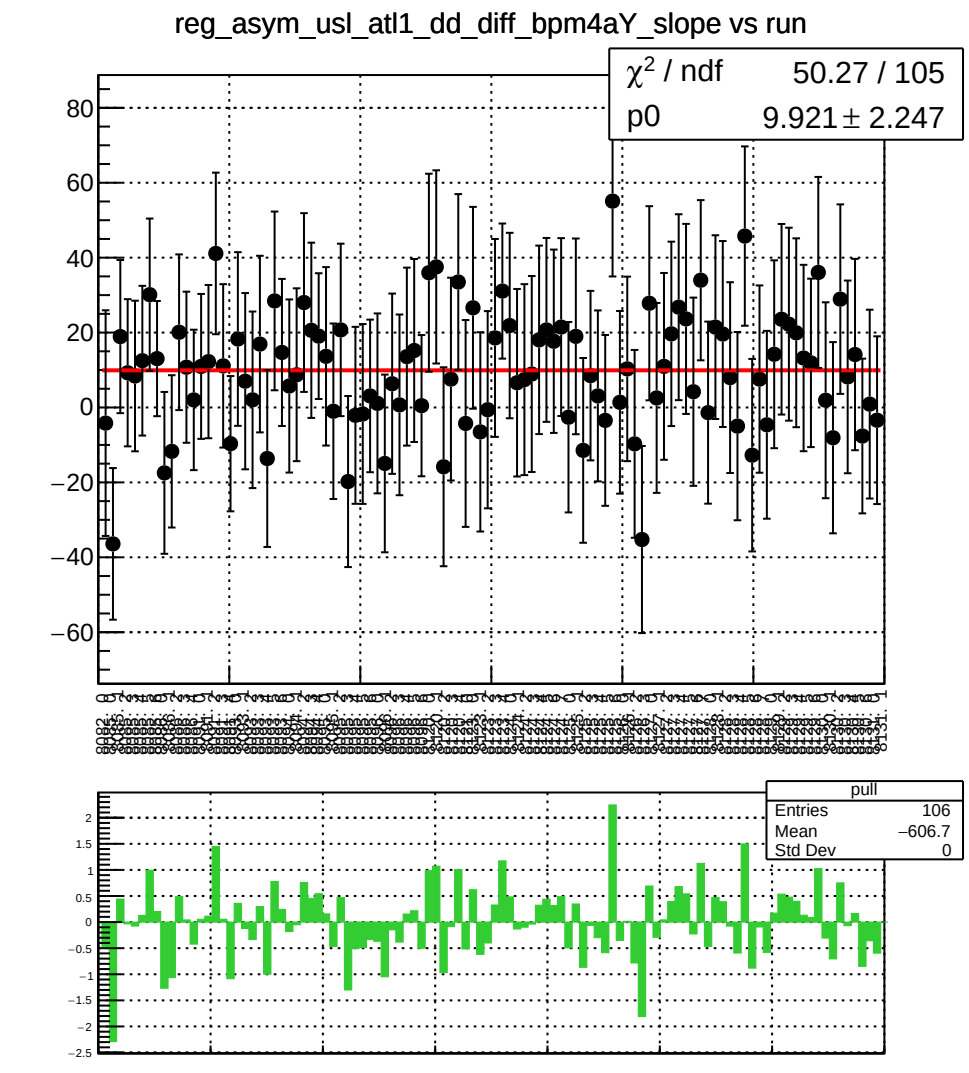

pull1D
Entries 106
Mean −0.01341
Std Dev 0.9842
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

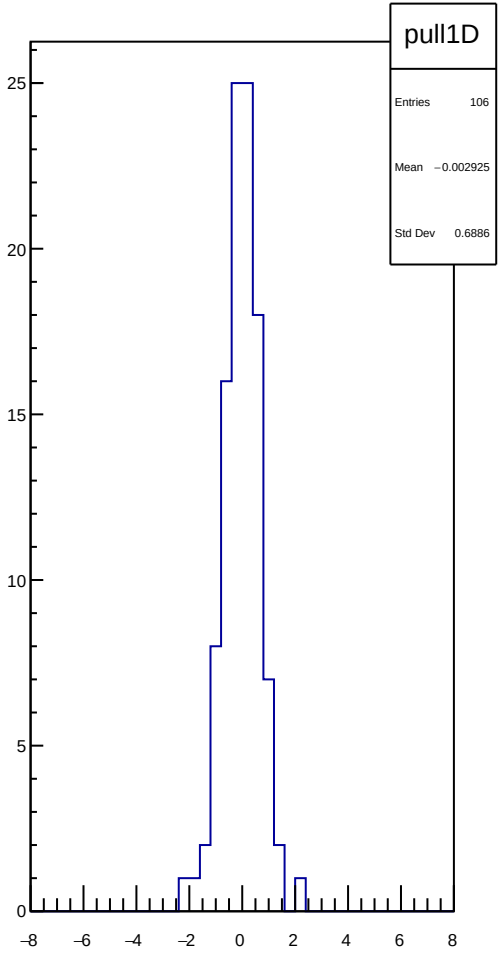

reg_asym_usl_atl1_avg_diff_bpm12X_slope vs run
χ² / ndf 3956 / 105
p0 3.691 ± 0.09255
10
5
0
−5
−10
pull
Entries 106
Mean 1505
Std Dev 0
10
5
0
−5
−10
−15

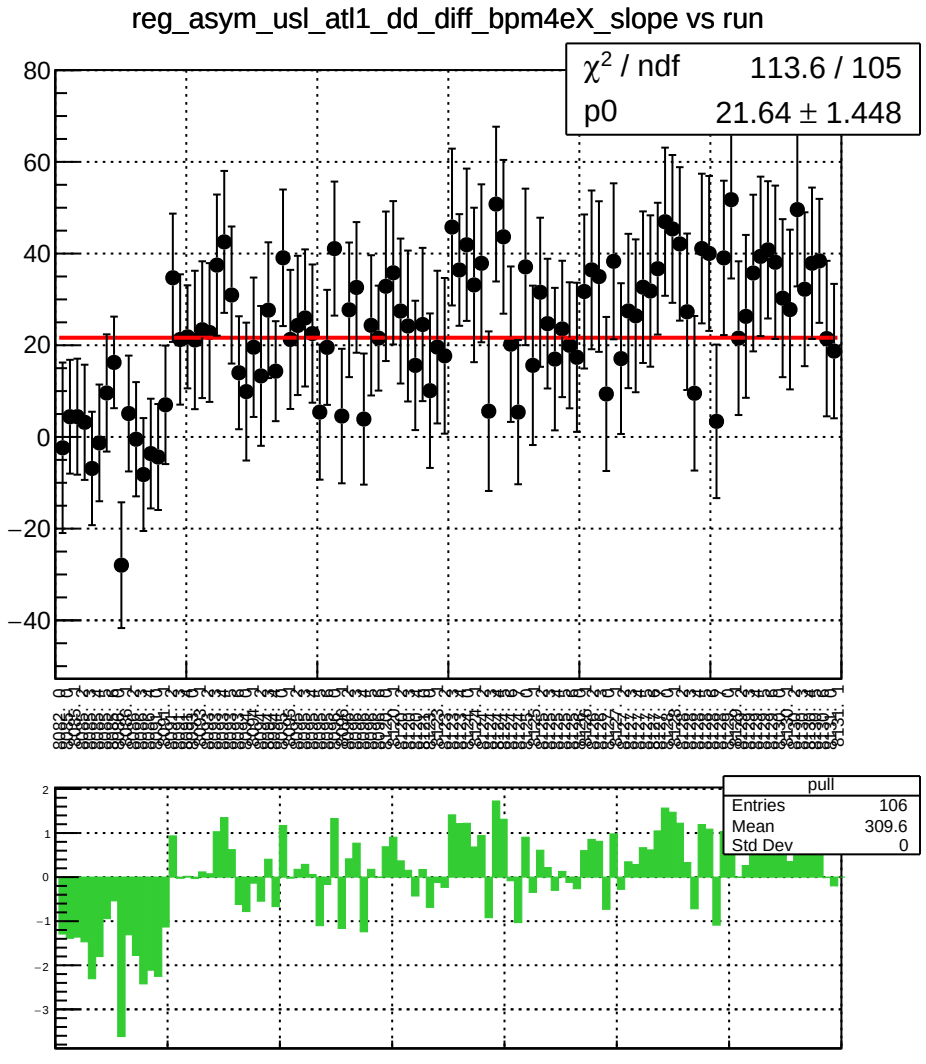

pull1D
Entries 106
Mean 2.165
Std Dev 3.527
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

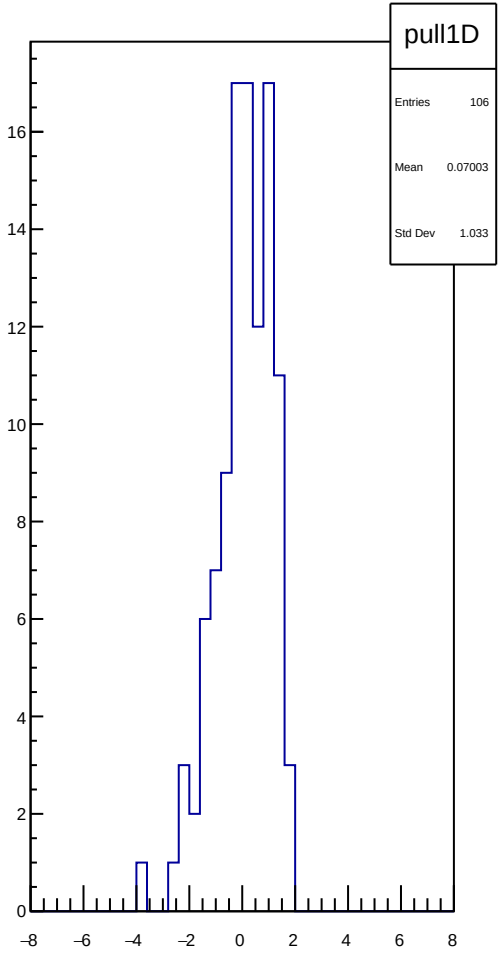

reg_asym_usl_atl1_dd_diff_bpm1X_slope vs run
χ² / ndf 109.4 / 105
p0 −69.79 ± 1.521
pull
Entries 106
Mean 288.9
Std Dev 0

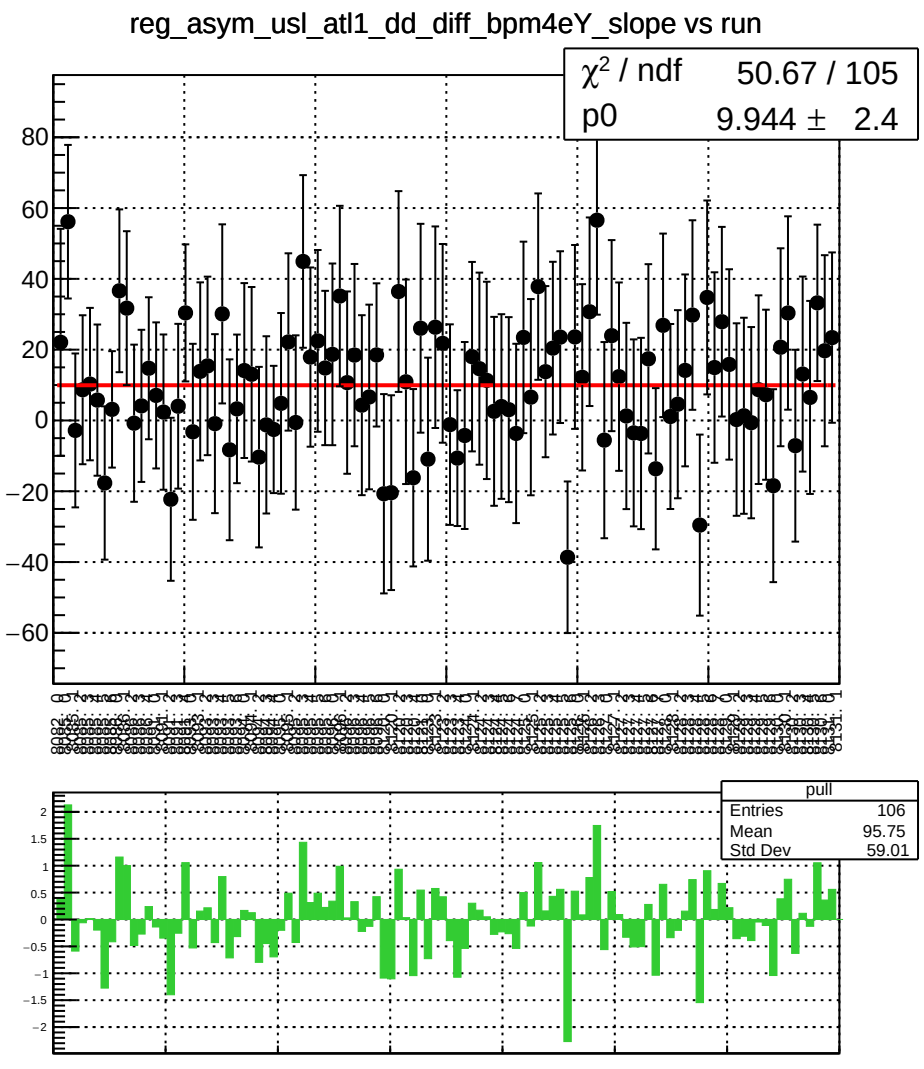

pull1D
Entries 106
Mean −0.07497
Std Dev 1.013

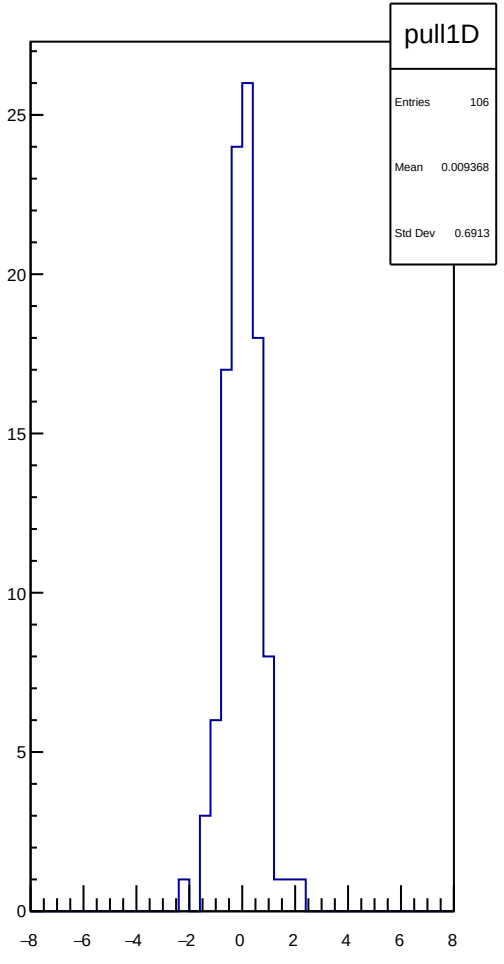

reg_asym_usl_atl1_dd_diff_bpm4aY_slope vs run
χ² / ndf 50.27 / 105
p0 9.921 ± 2.247
pull
Entries 106
Mean −606.7
Std Dev 0

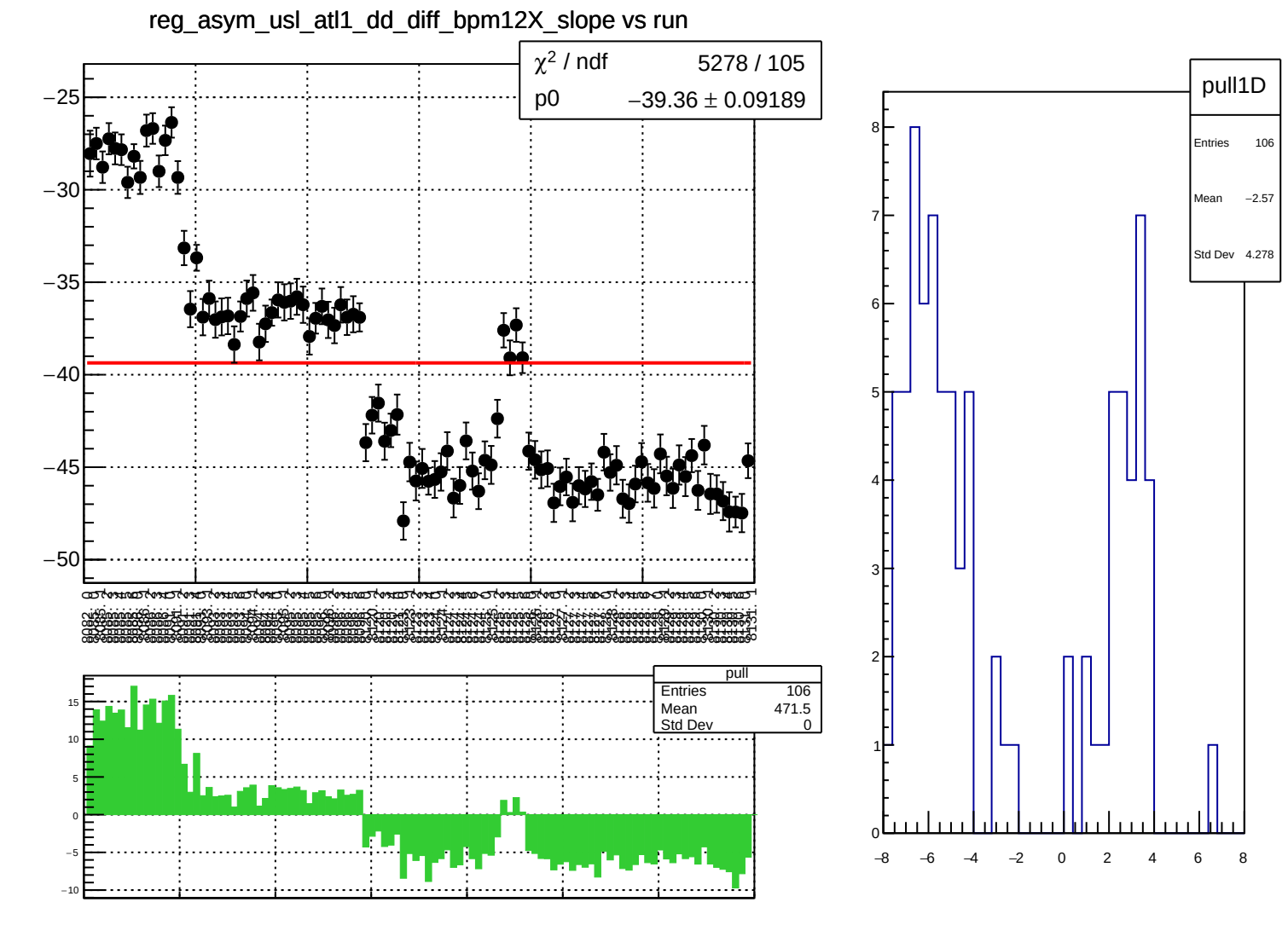

pull1D
Entries 106
Mean −0.002925
Std Dev 0.6886

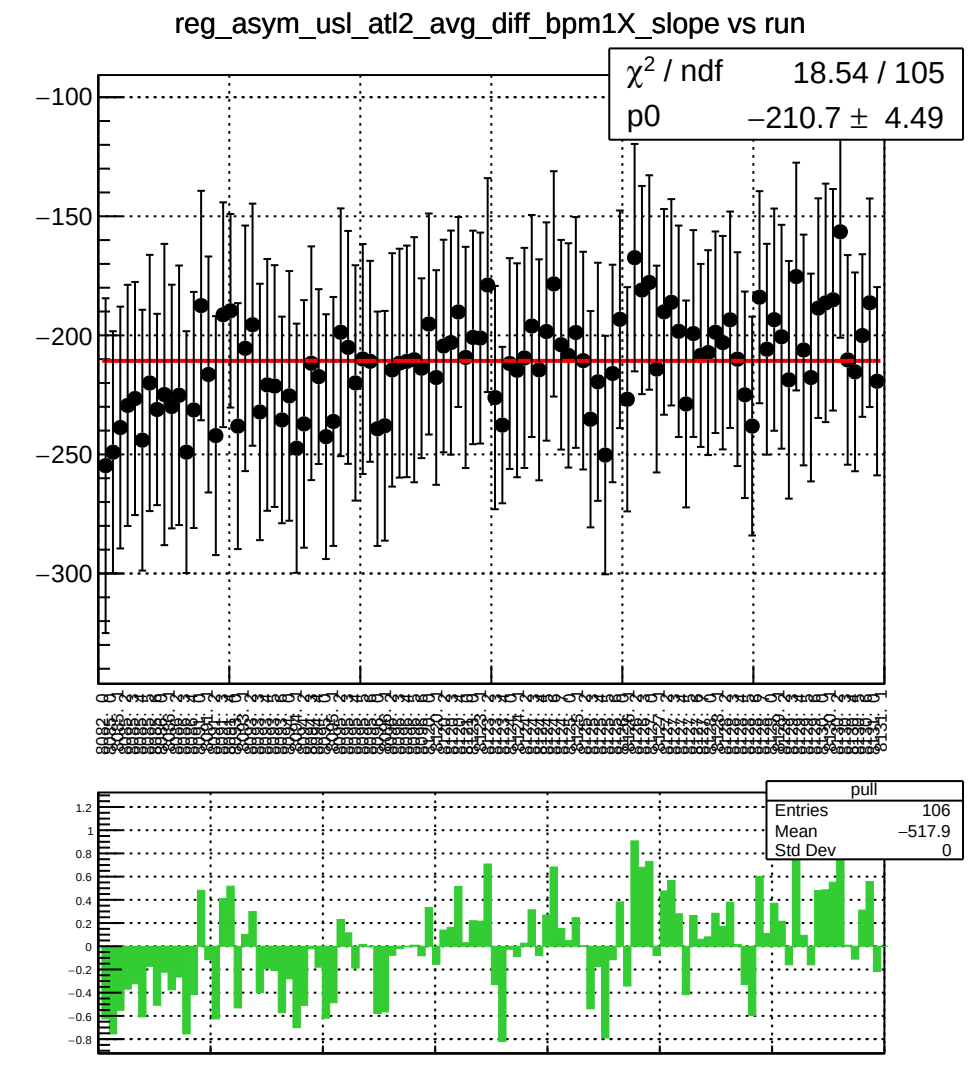

reg_asym_usl_atl1_dd_diff_bpm4eX_slope vs run
χ² / ndf 113.6 / 105
p0 21.64 ± 1.448
pull
Entries 106
Mean 309.6
Std Dev 0

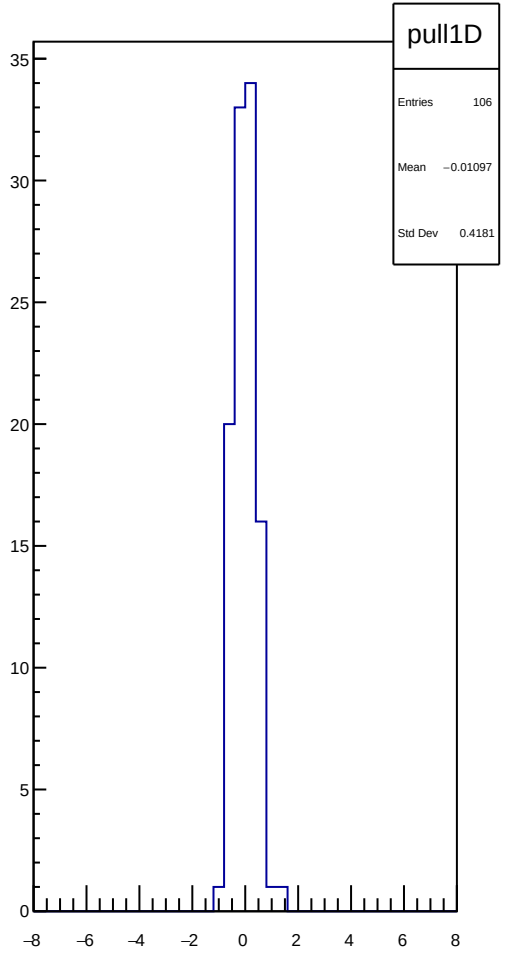

pull1D
Entries 106
Mean 0.07003
Std Dev 1.033

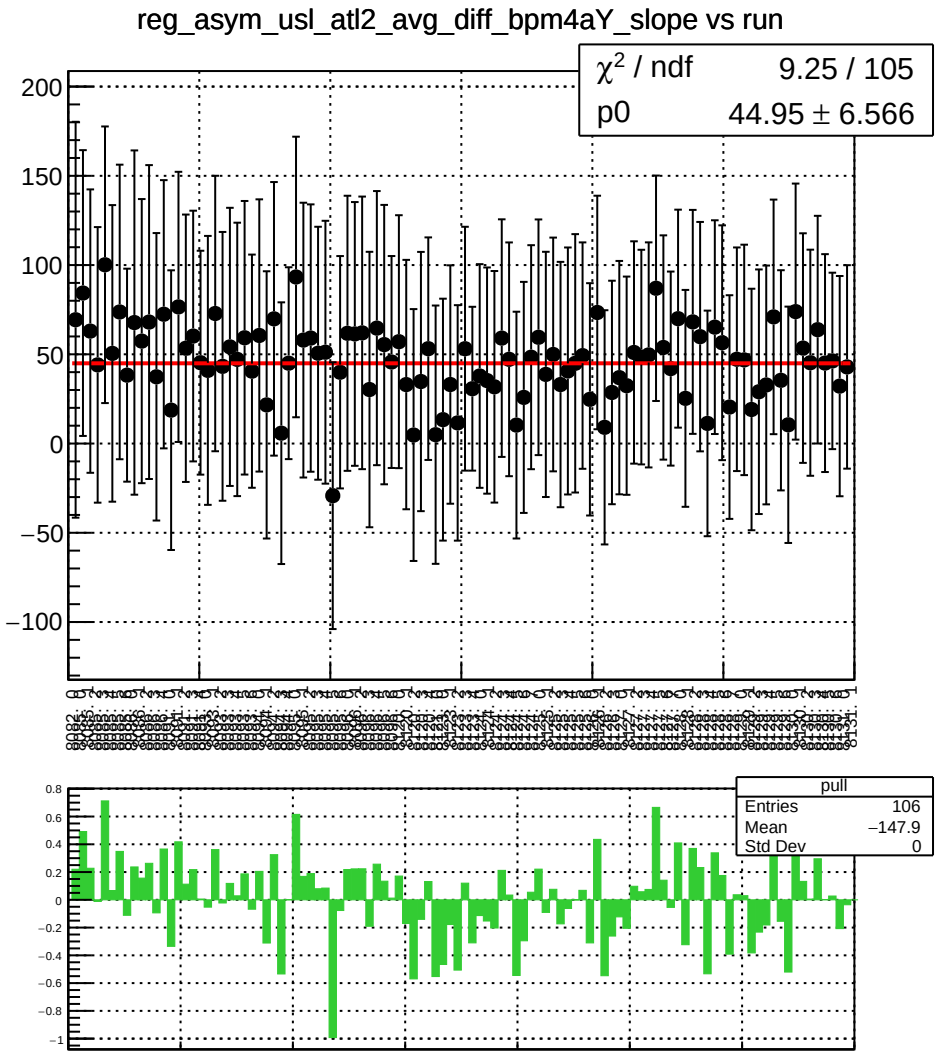

reg_asym_usl_atl1_dd_diff_bpm4eY_slope vs run
χ² / ndf 50.67 / 105
p0 9.944 ± 2.4
pull
Entries 106
Mean 95.75
Std Dev 59.01

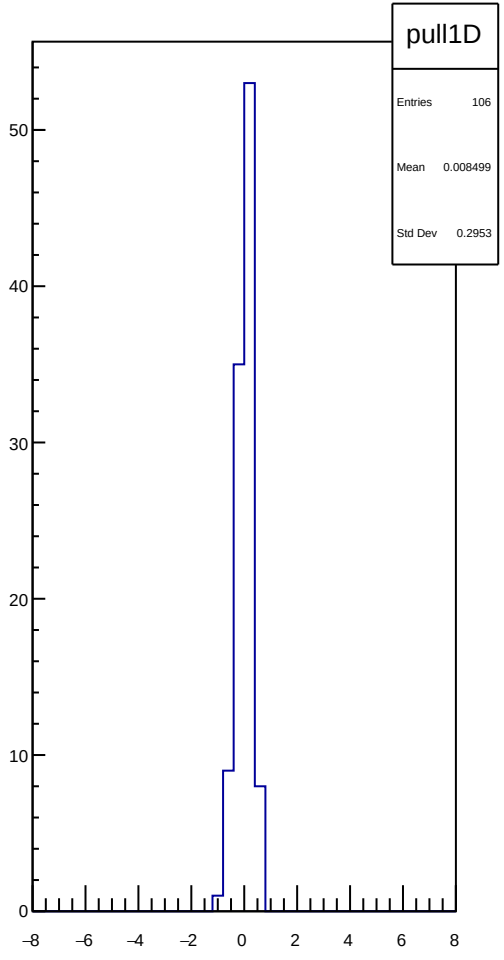

pull1D
Entries 106
Mean 0.009368
Std Dev 0.6913

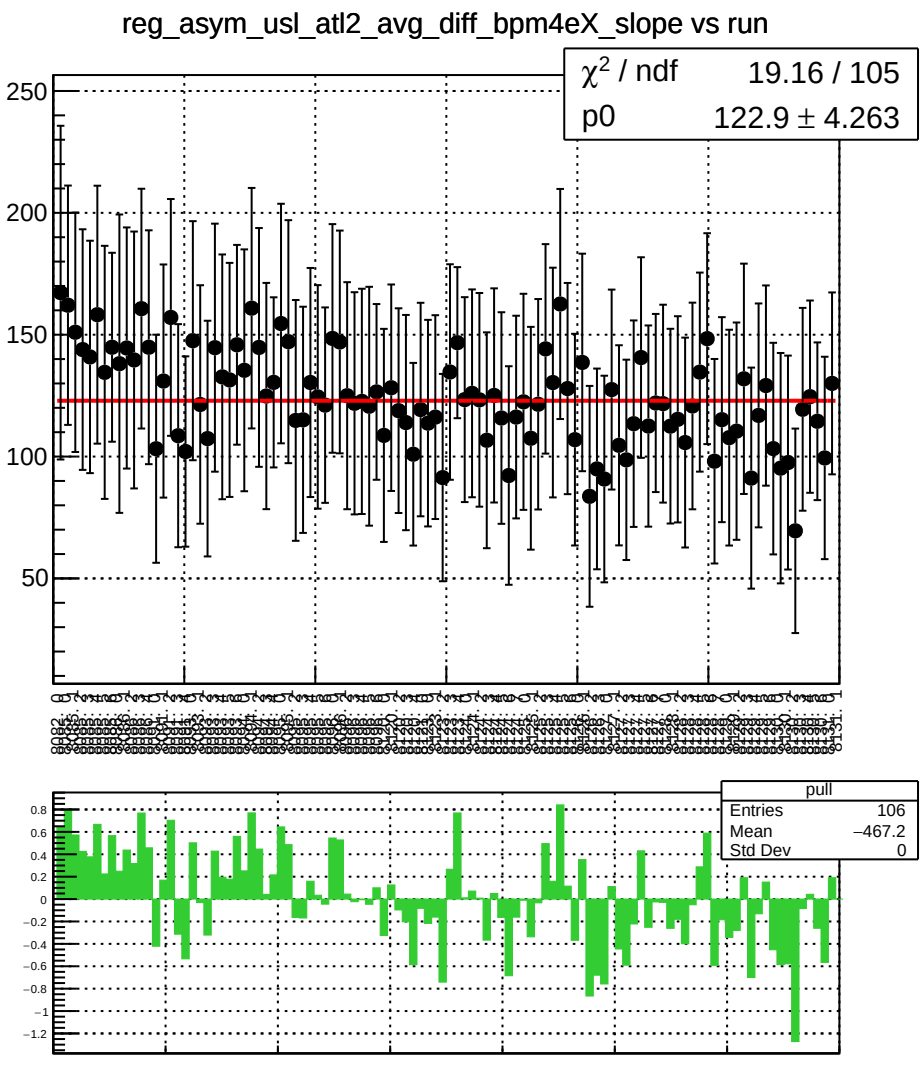

reg_asym_usl_atl1_dd_diff_bpm12X_slope vs run
χ² / ndf 5278 / 105
p0 −39.36 ± 0.09189
−25
−30
−35
−40
−45
−50
pull
Entries 106
Mean 471.5
Std Dev 0
15
10
5
0
−5
−10
pull1D
Entries 106
Mean −2.57
Std Dev 4.278
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

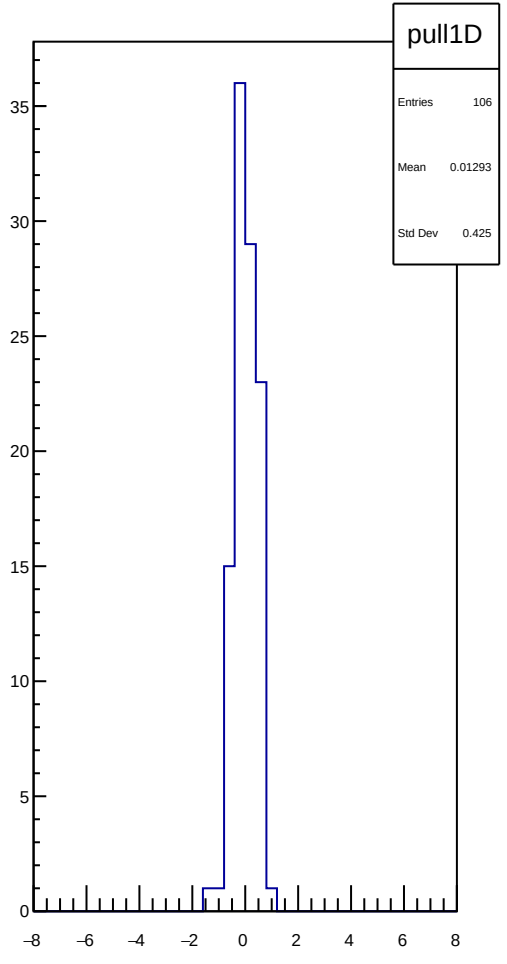

reg_asym_usl_atl2_avg_diff_bpm1X_slope vs run
χ² / ndf 18.54 / 105
p0 −210.7 ± 4.49
−100
−150
−200
−250
−300
pull
Entries 106
Mean −517.9
Std Dev 0
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

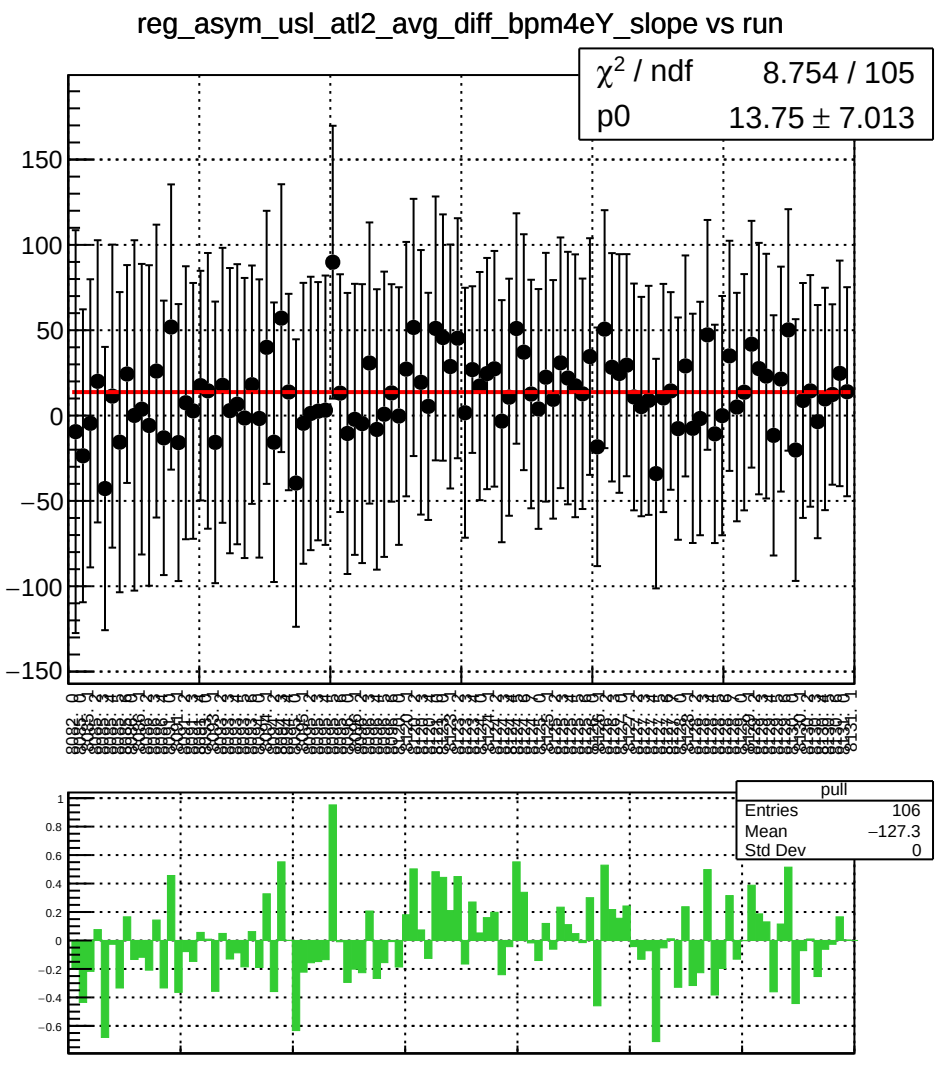

pull1D
Entries 106
Mean −0.01097
Std Dev 0.4181
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

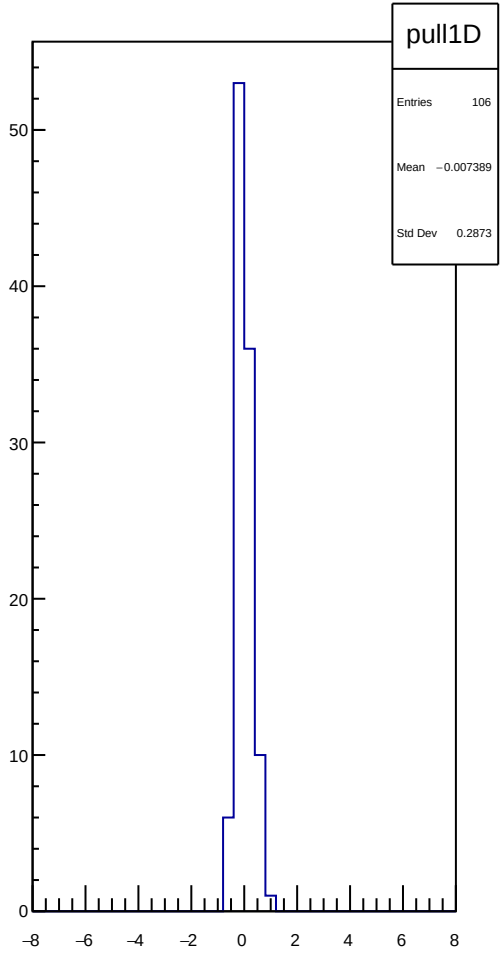

reg_asym_usl_atl2_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.25 / 105
p0 44.95 ± 6.566
pull
Entries 106
Mean −147.9
Std Dev 0

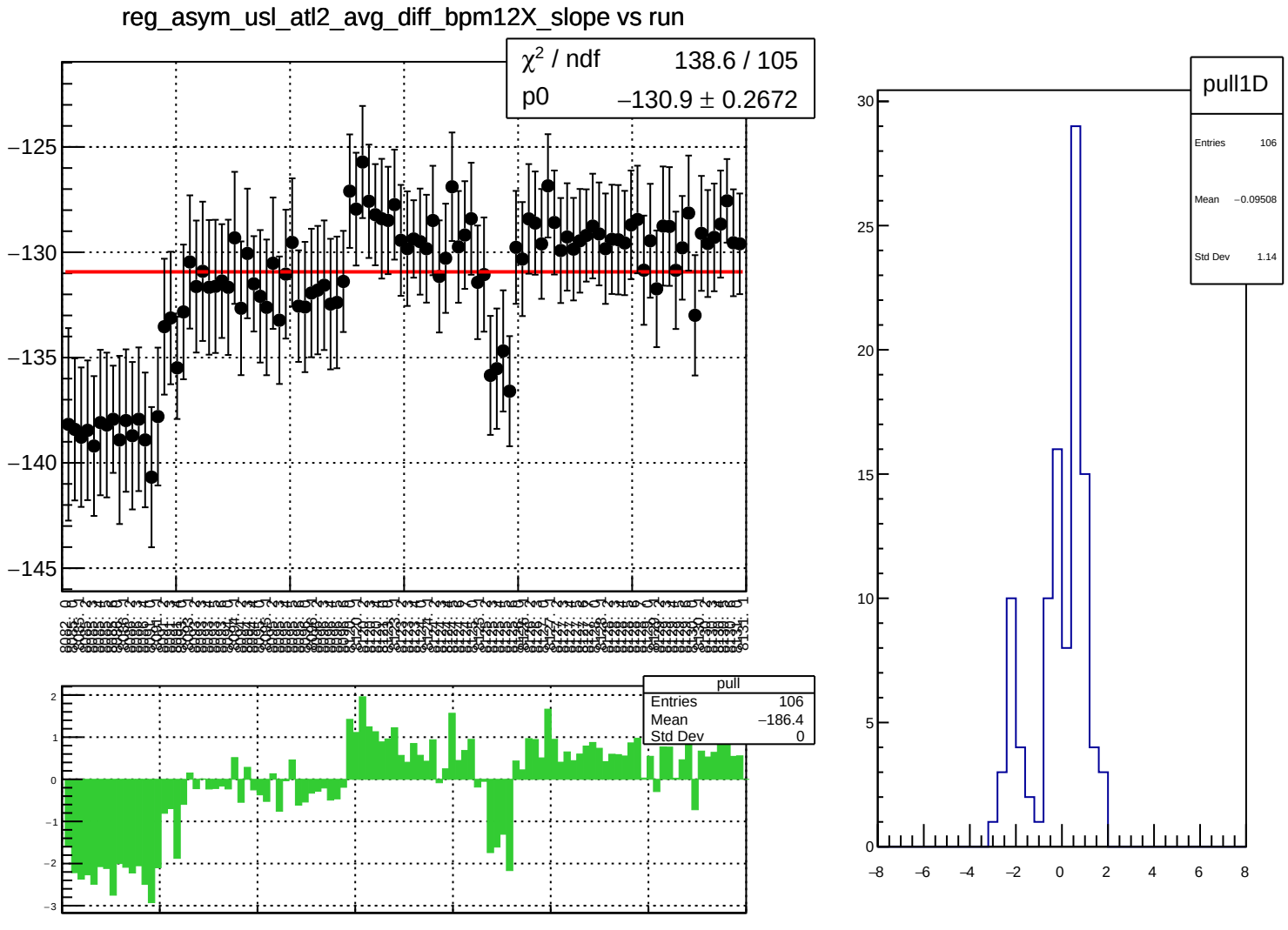

pull1D
Entries 106
Mean 0.008499
Std Dev 0.2953

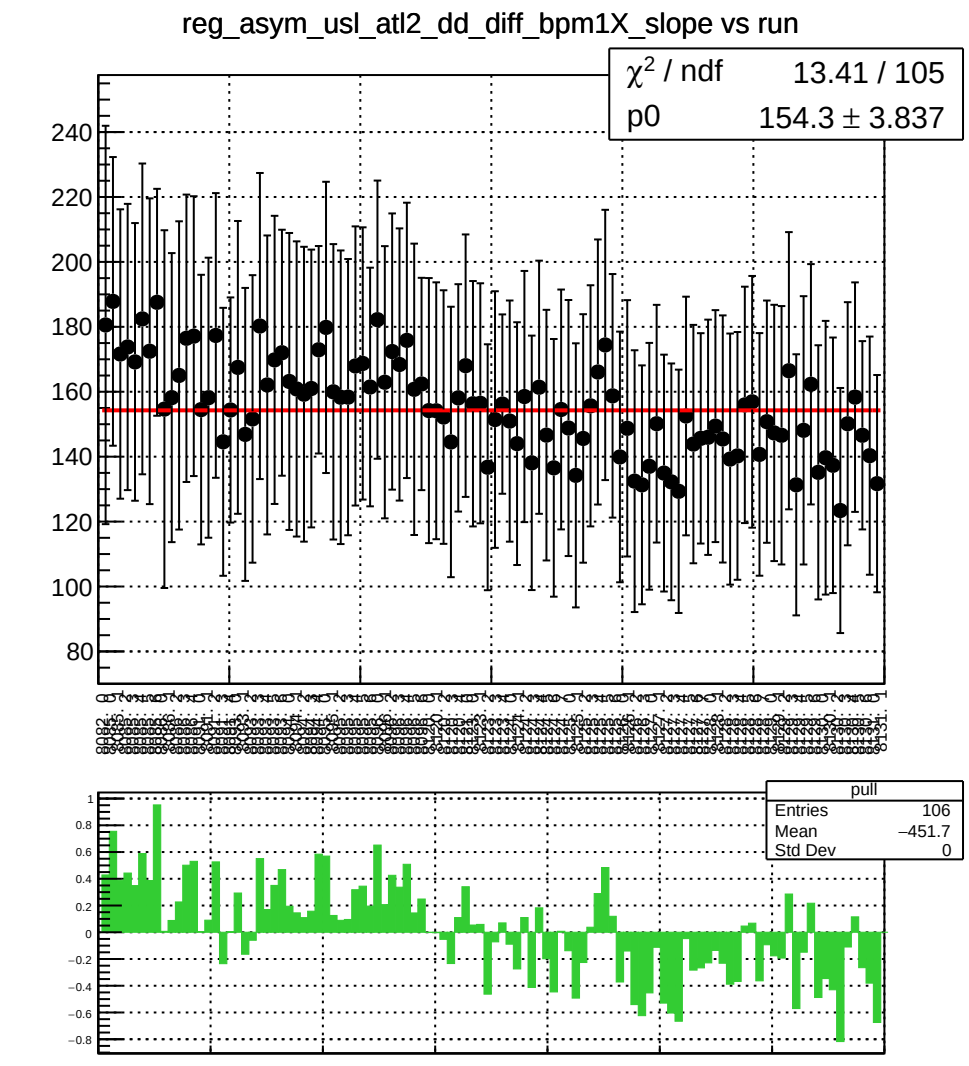

reg_asym_usl_atl2_avg_diff_bpm4eX_slope vs run
χ² / ndf 19.16 / 105
p0 122.9 ± 4.263
250
200
150
100
50
pull
Entries 106
Mean −467.2
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

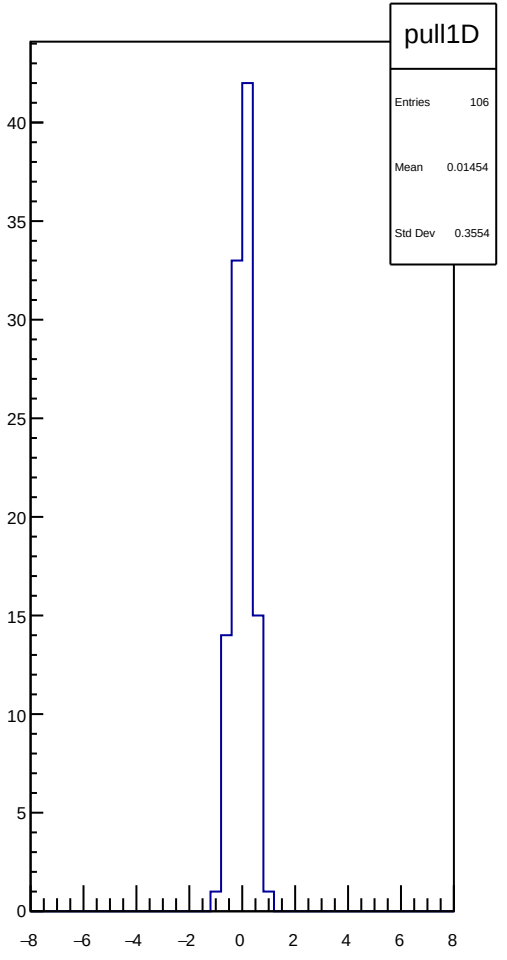

pull1D
Entries 106
Mean 0.01293
Std Dev 0.425
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

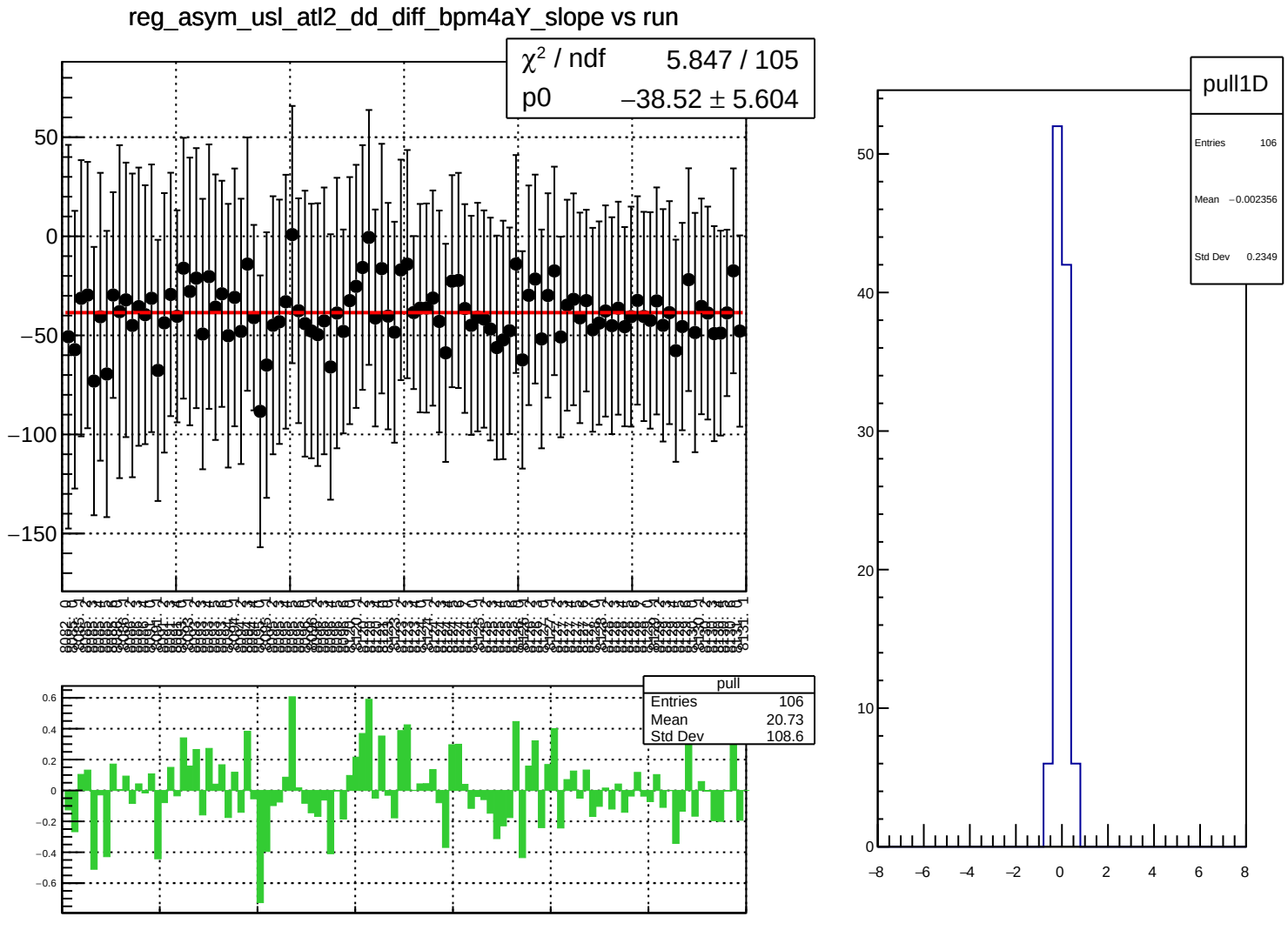

reg_asym_usl_atl2_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.754 / 105
p0 13.75 ± 7.013
150
100
50
0
−50
−100
−150
pull
Entries 106
Mean −127.3
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

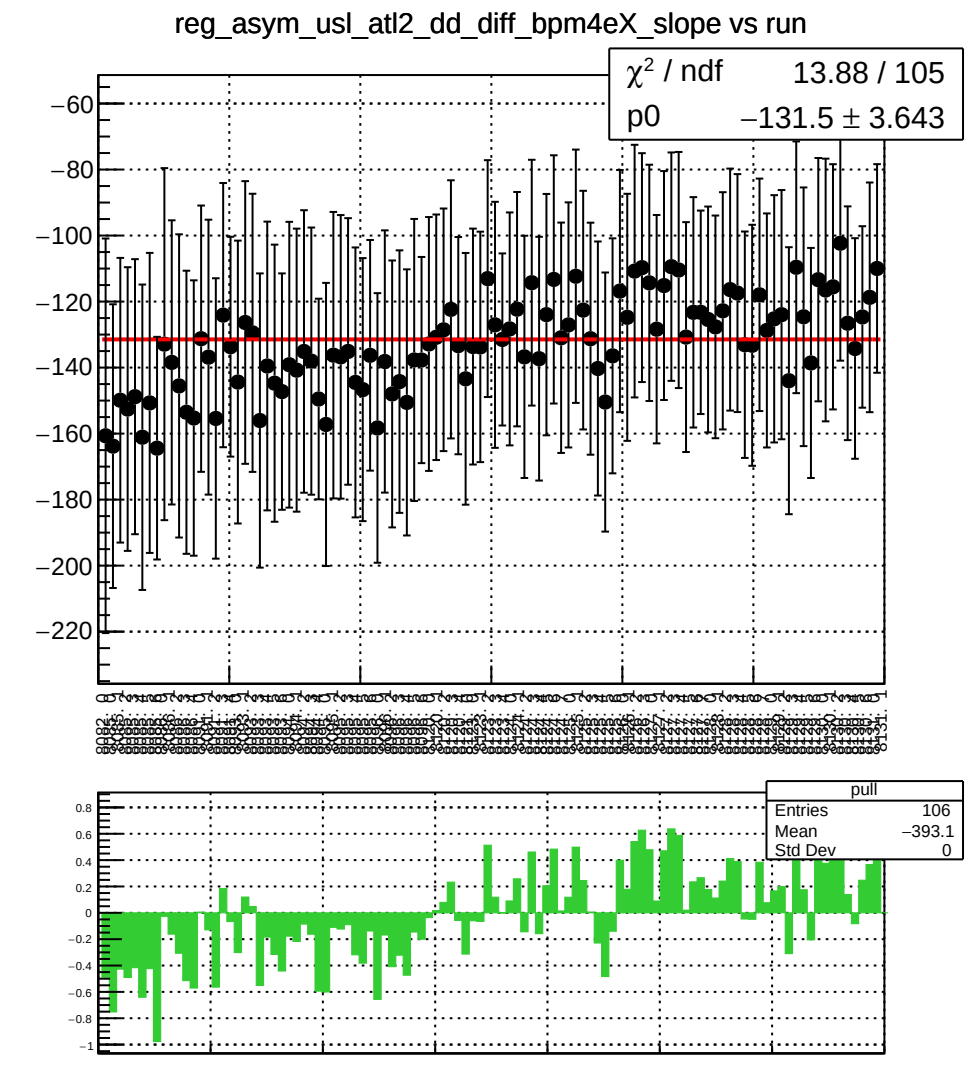

pull1D
Entries 106
Mean −0.007389
Std Dev 0.2873
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

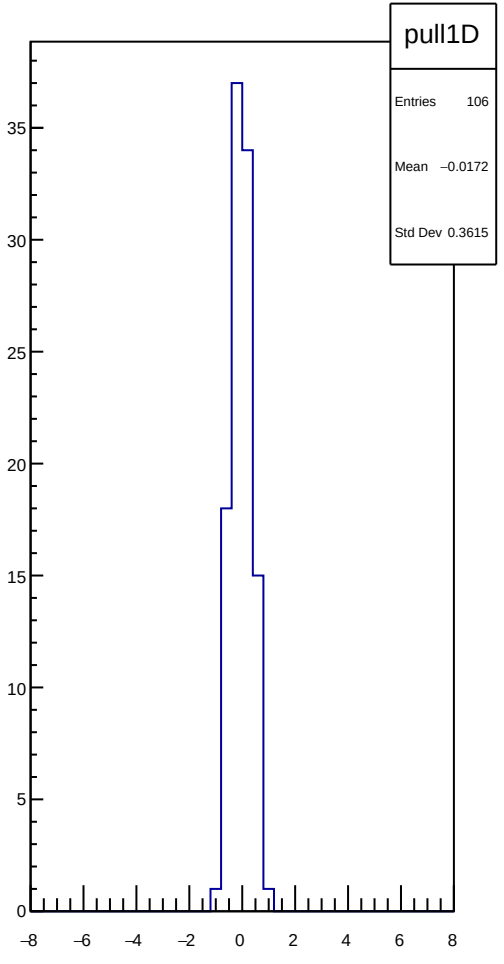

reg_asym_usl_atl2_avg_diff_bpm12X_slope vs run
χ² / ndf 138.6 / 105
p0 −130.9 ± 0.2672
−125
−130
−135
−140
−145
pull
Entries 106
Mean −186.4
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 106
Mean −0.09508
Std Dev 1.14
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

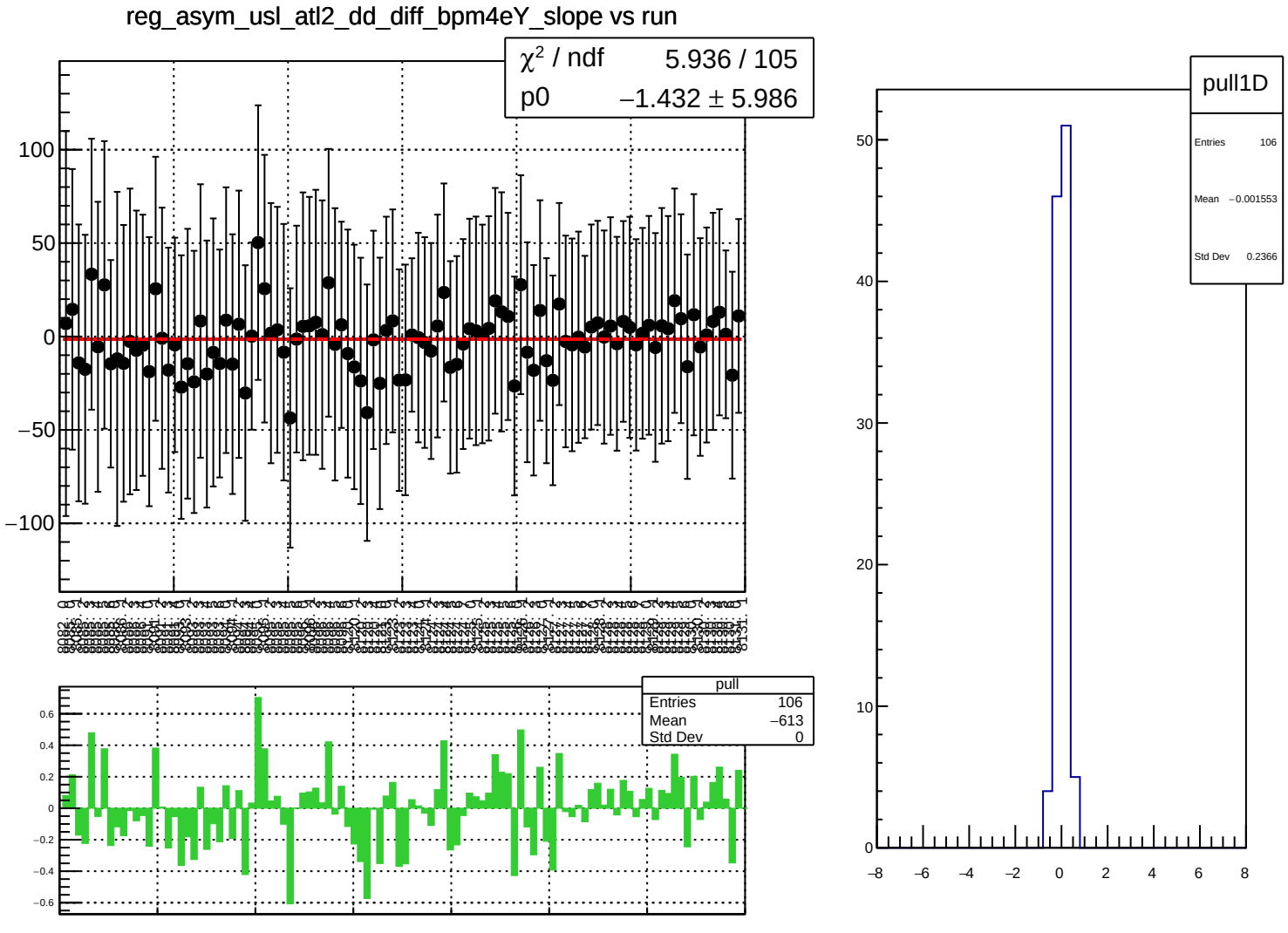

reg_asym_usl_atl2_dd_diff_bpm1X_slope vs run
χ² / ndf 13.41 / 105
p0 154.3 ± 3.837
240
220
200
180
160
140
120
100
80
pull
Entries 106
Mean −451.7
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

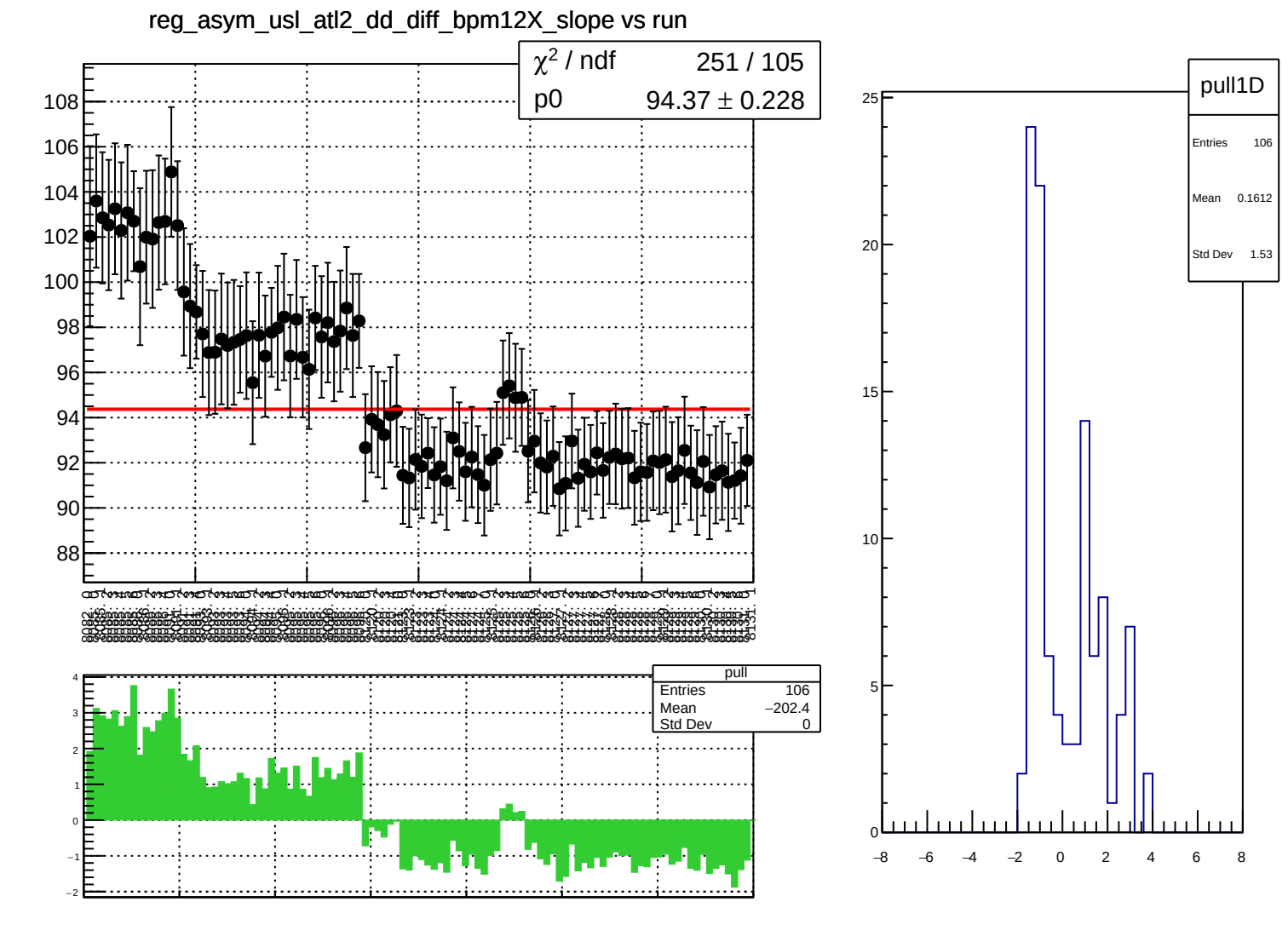

pull1D
Entries 106
Mean 0.01454
Std Dev 0.3554
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

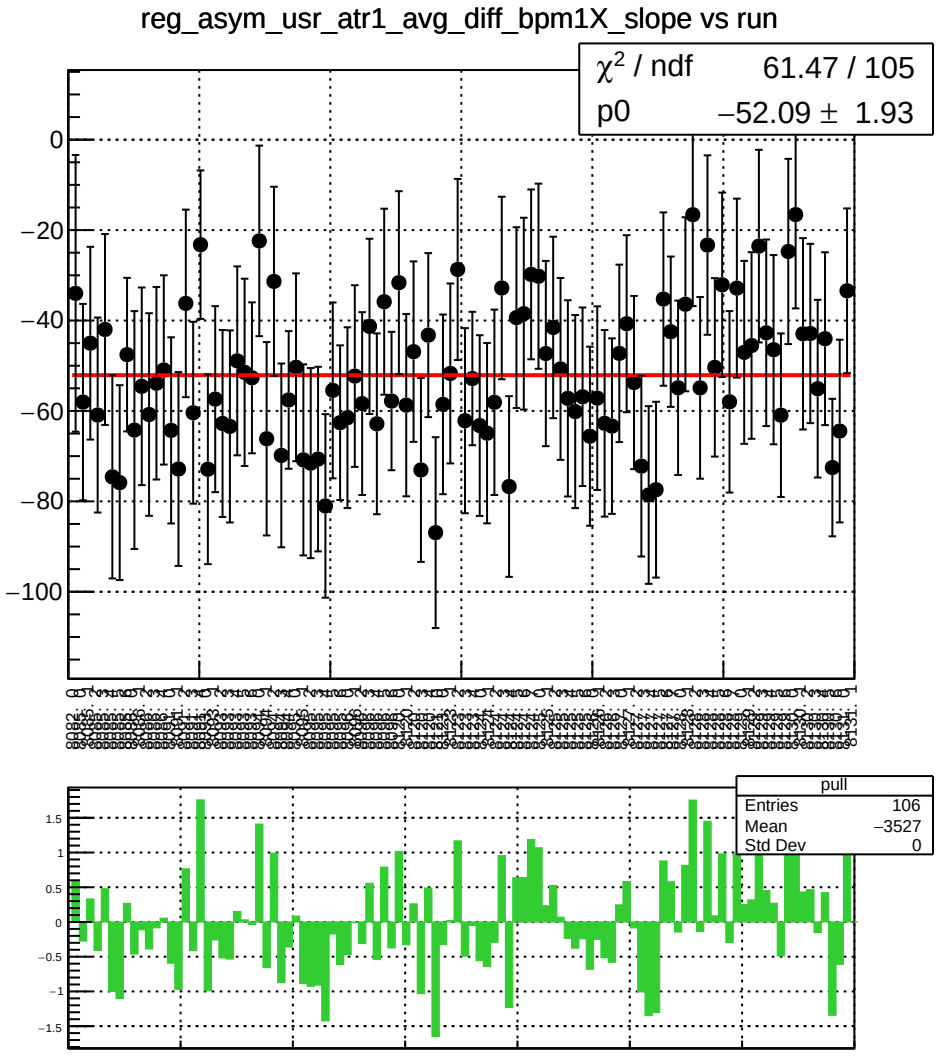

reg_asym_usl_atl2_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.847 / 105
p0 −38.52 ± 5.604
50
0
−50
−100
−150
pull
Entries 106
Mean 20.73
Std Dev 108.6
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 106
Mean −0.002356
Std Dev 0.2349
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

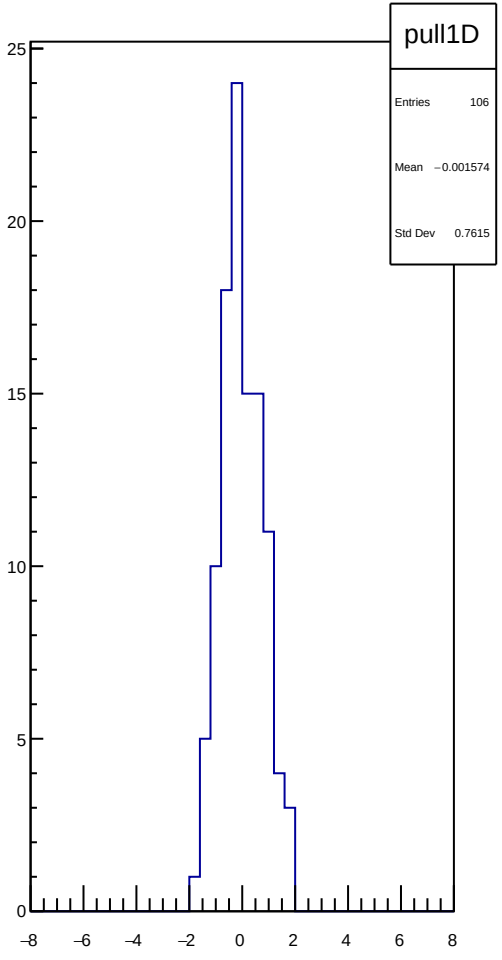

reg_asym_usl_atl2_dd_diff_bpm4eX_slope vs run
χ² / ndf 13.88 / 105
p0 −131.5 ± 3.643
pull
Entries 106
Mean −393.1
Std Dev 0

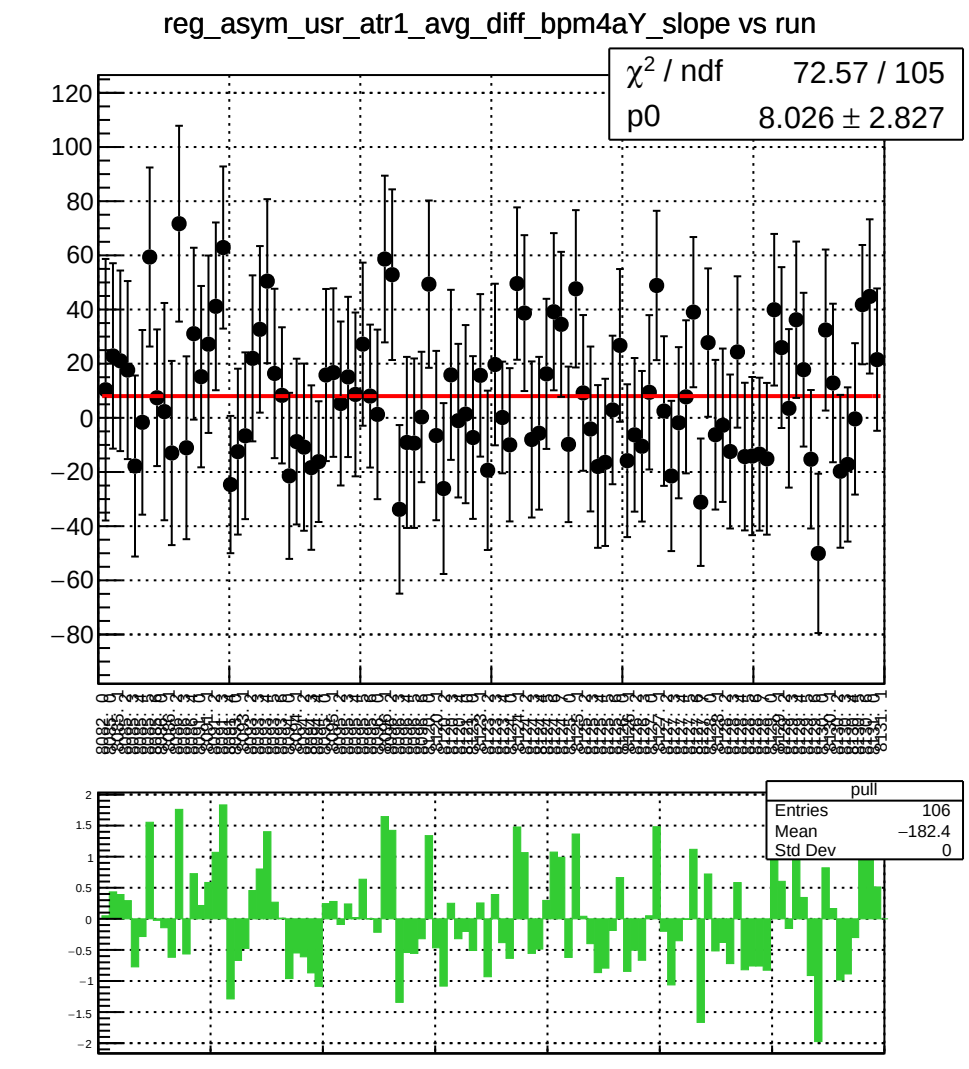

pull1D
Entries 106
Mean −0.0172
Std Dev 0.3615

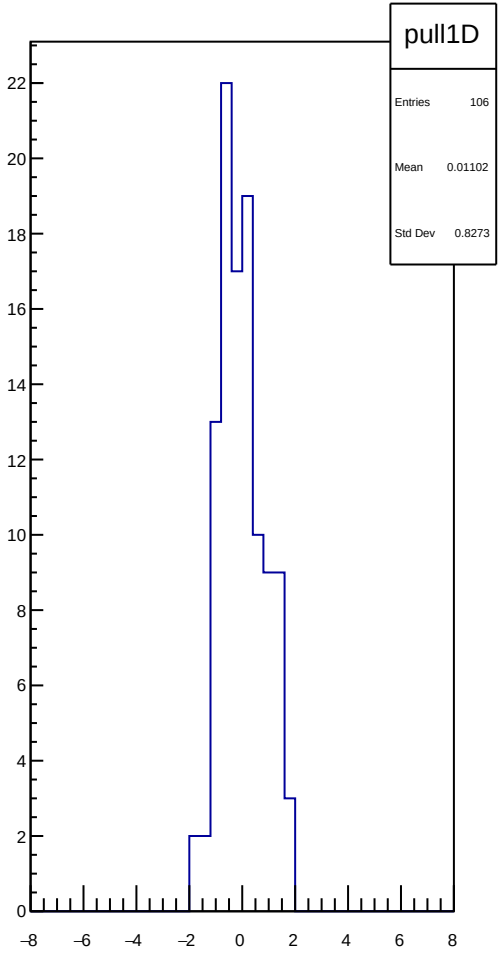

reg_asym_usl_atl2_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.936 / 105
p0 −1.432 ± 5.986
100
50
0
−50
−100
pull
Entries 106
Mean −613
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 106
Mean −0.001553
Std Dev 0.2366
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

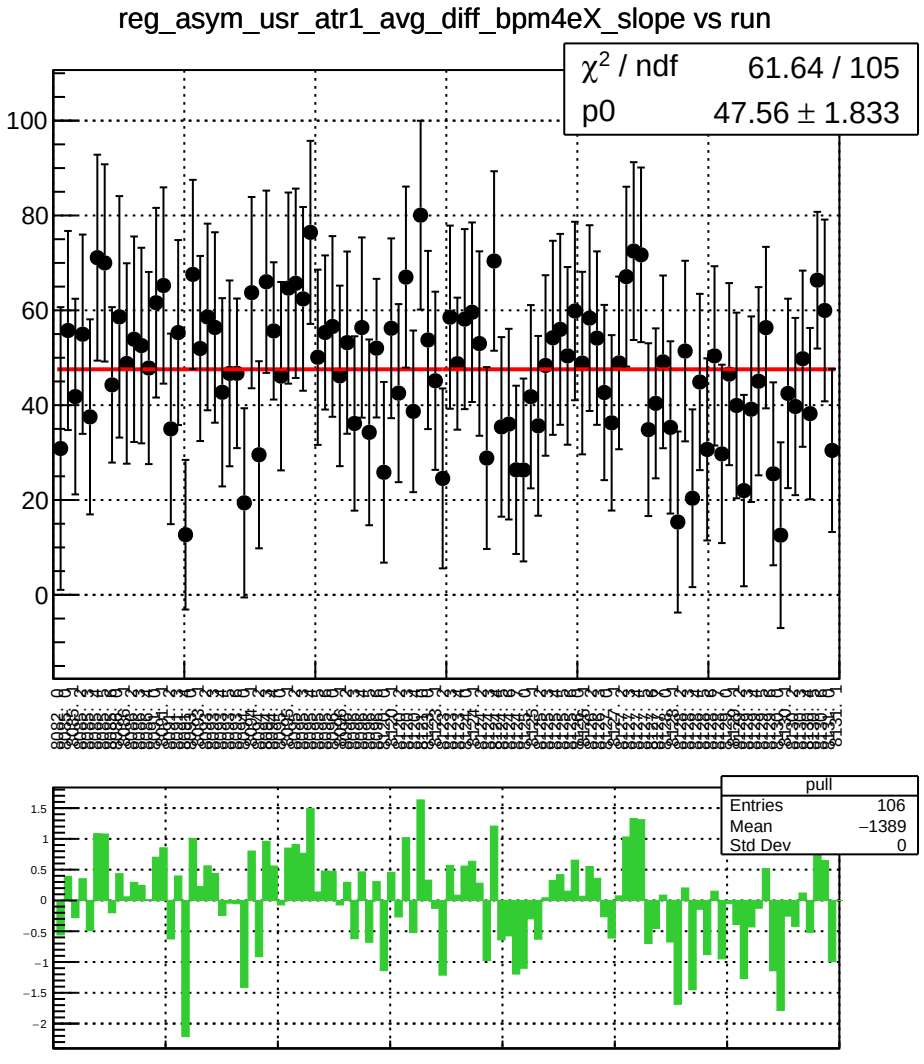

reg_asym_usl_atl2_dd_diff_bpm12X_slope vs run
χ² / ndf 251 / 105
p0 94.37 ± 0.228
108
106
104
102
100
98
96
94
92
90
88
pull
Entries 106
Mean −202.4
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 106
Mean 0.1612
Std Dev 1.53
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

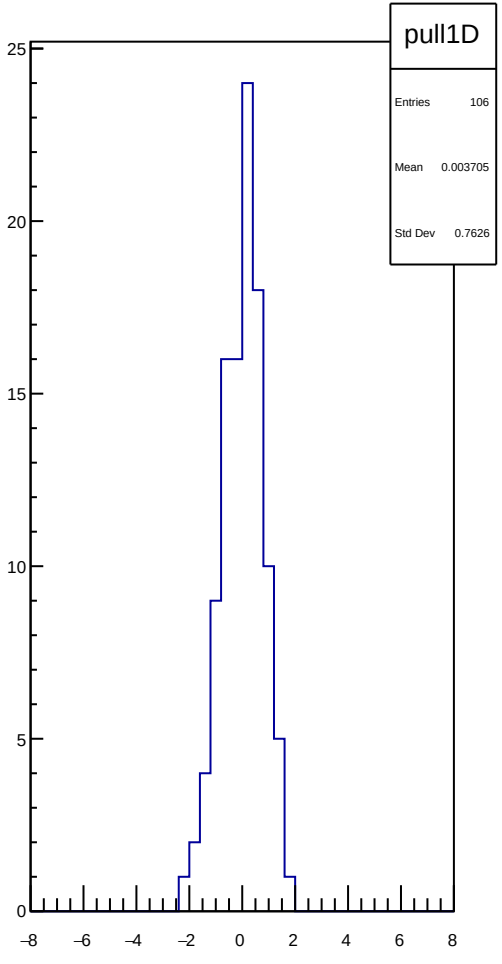

reg_asym_usr_atr1_avg_diff_bpm1X_slope vs run
χ² / ndf 61.47 / 105
p0 −52.09 ± 1.93
pull
Entries 106
Mean −3527
Std Dev 0

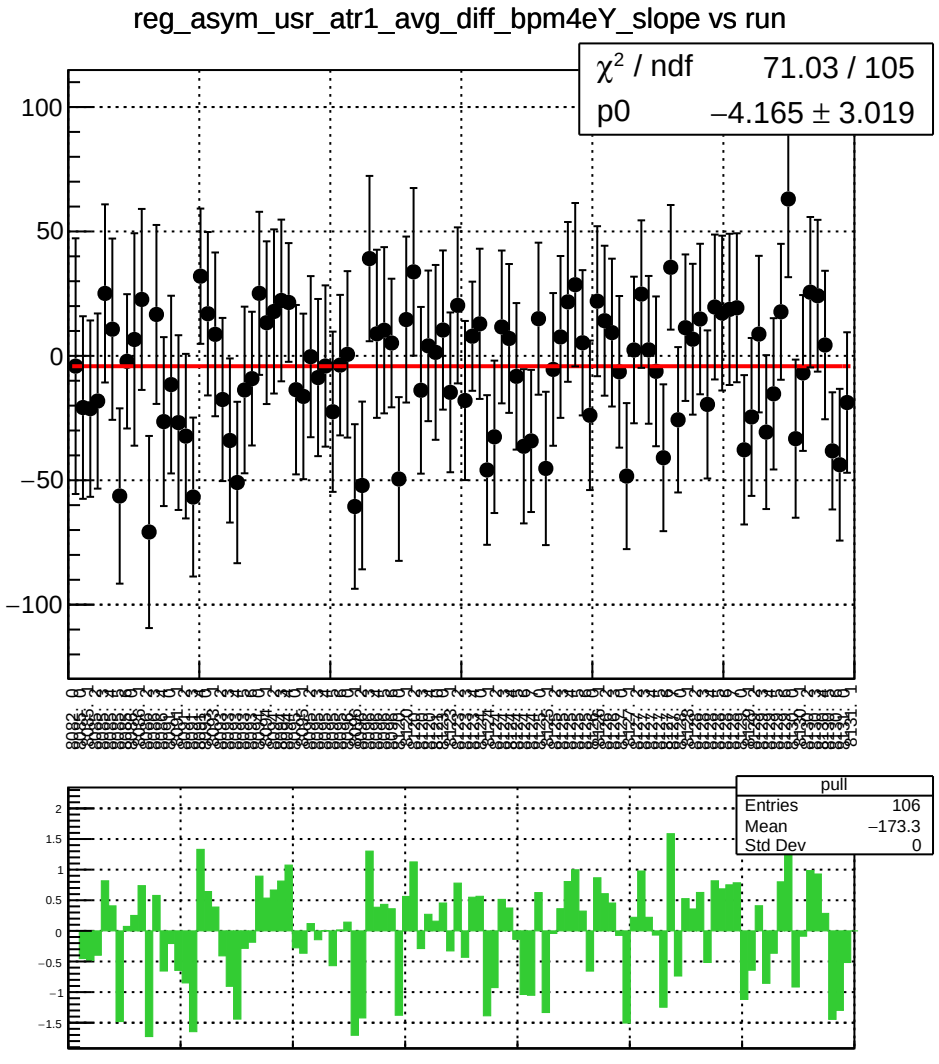

pull1D
Entries 106
Mean −0.001574
Std Dev 0.7615

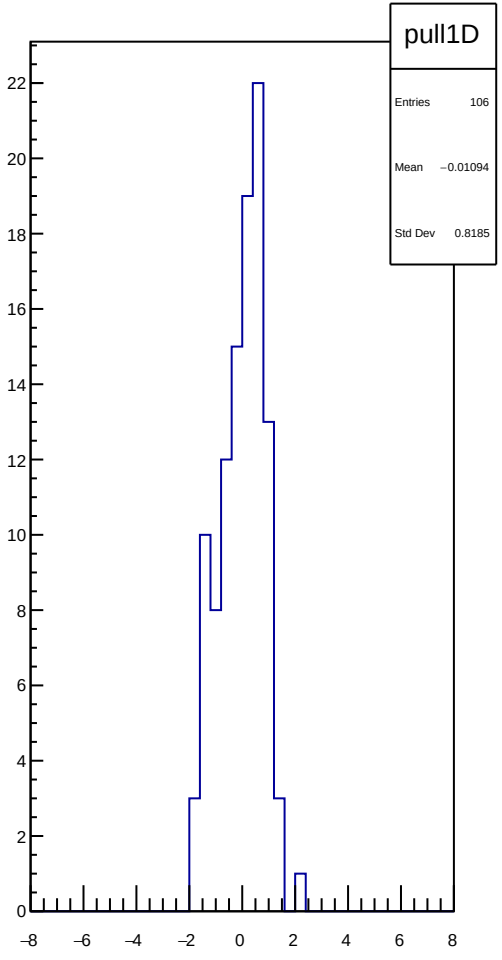

reg_asym_usr_atr1_avg_diff_bpm4aY_slope vs run
χ² / ndf 72.57 / 105
p0 8.026 ± 2.827
pull
Entries 106
Mean −182.4
Std Dev 0

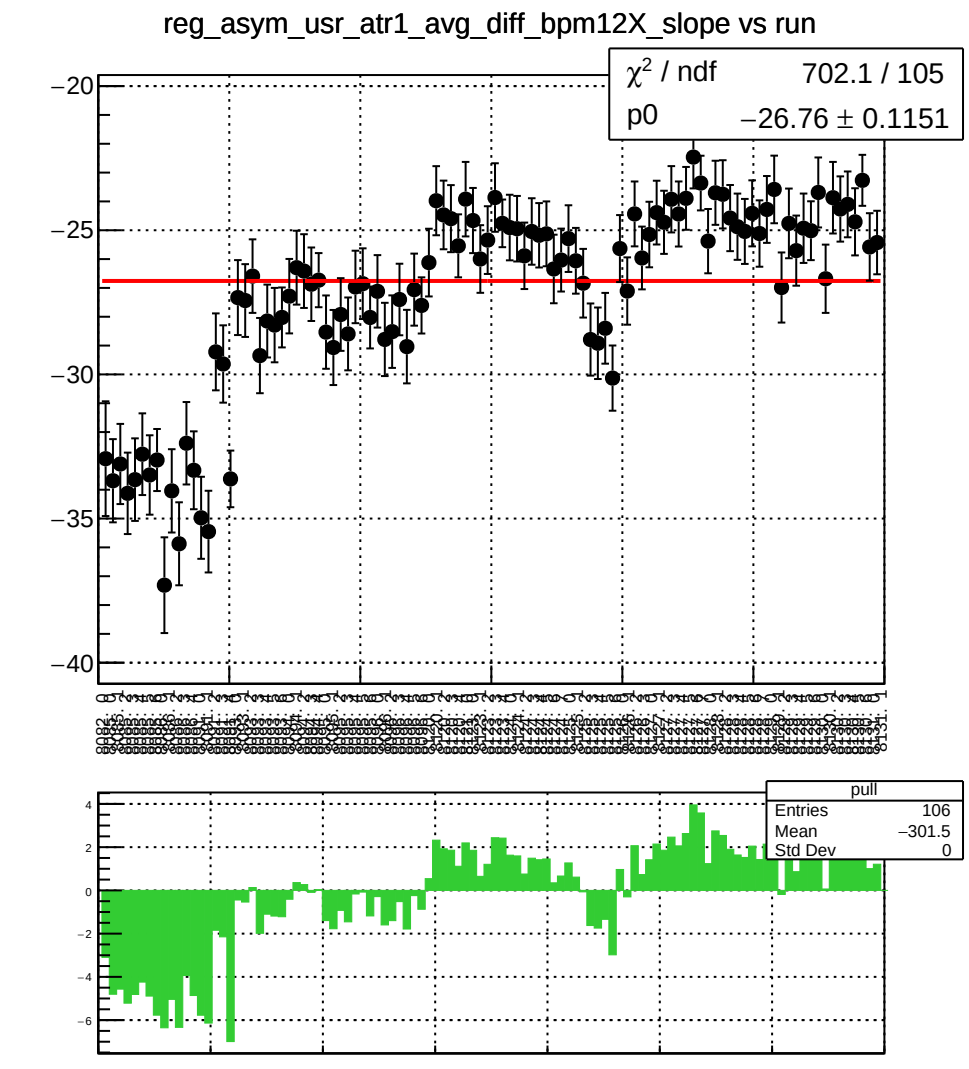

pull1D
Entries 106
Mean 0.01102
Std Dev 0.8273

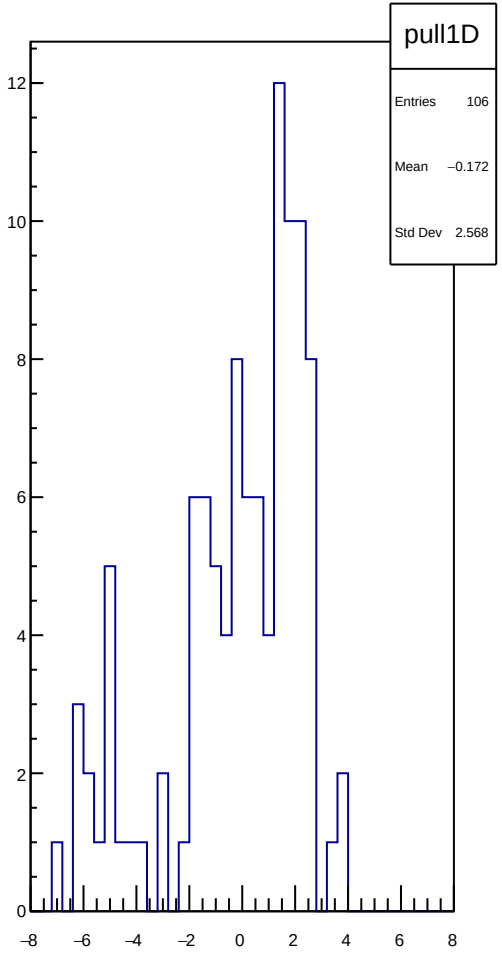

reg_asym_usr_atr1_avg_diff_bpm4eX_slope vs run
χ² / ndf 61.64 / 105
p0 47.56 ± 1.833
pull
Entries 106
Mean −1389
Std Dev 0

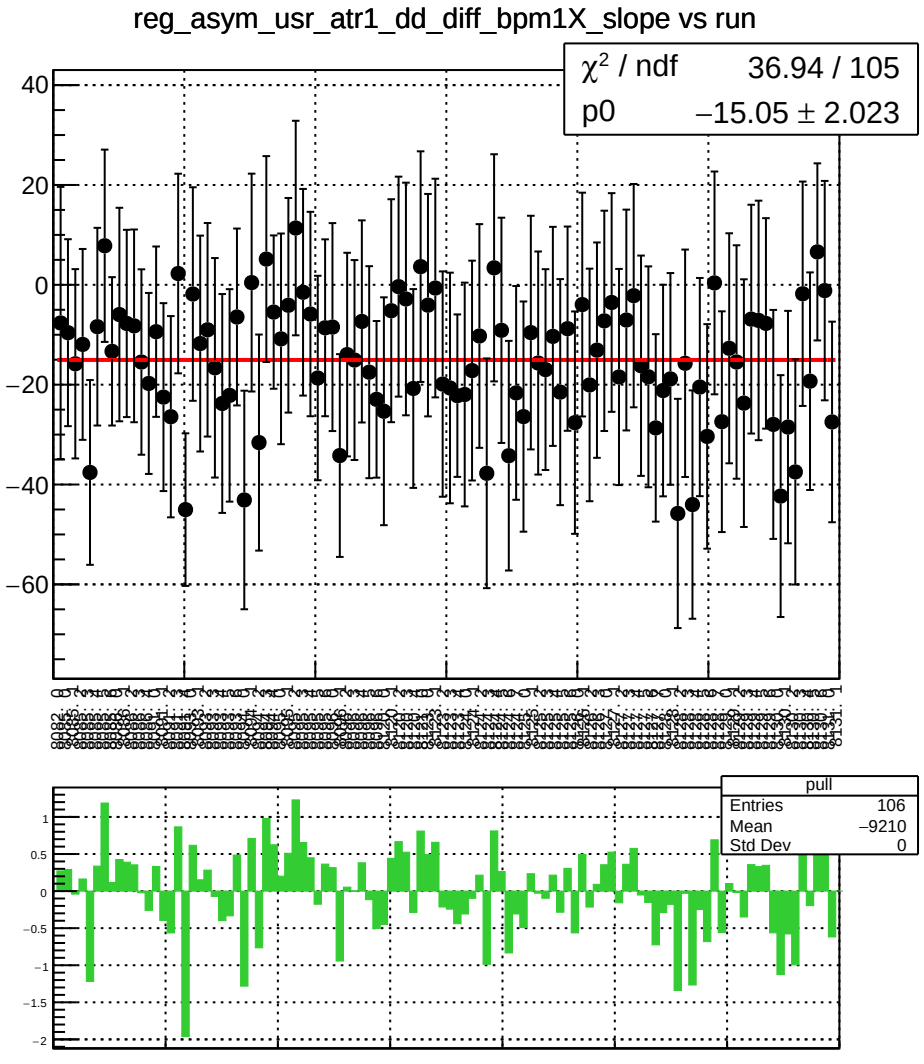

pull1D
Entries 106
Mean 0.003705
Std Dev 0.7626

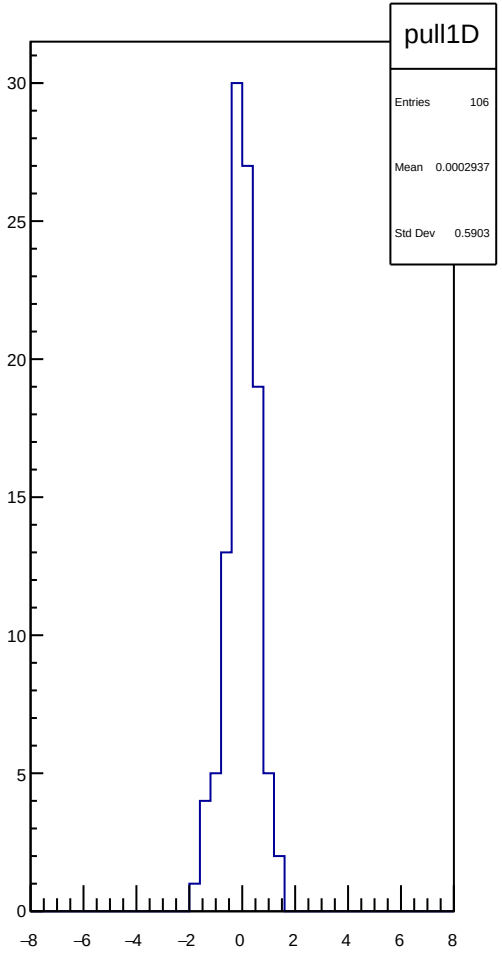

reg_asym_usr_atr1_avg_diff_bpm4eY_slope vs run
χ² / ndf 71.03 / 105
p0 −4.165 ± 3.019
100
50
0
−50
−100
pull
Entries 106
Mean −173.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

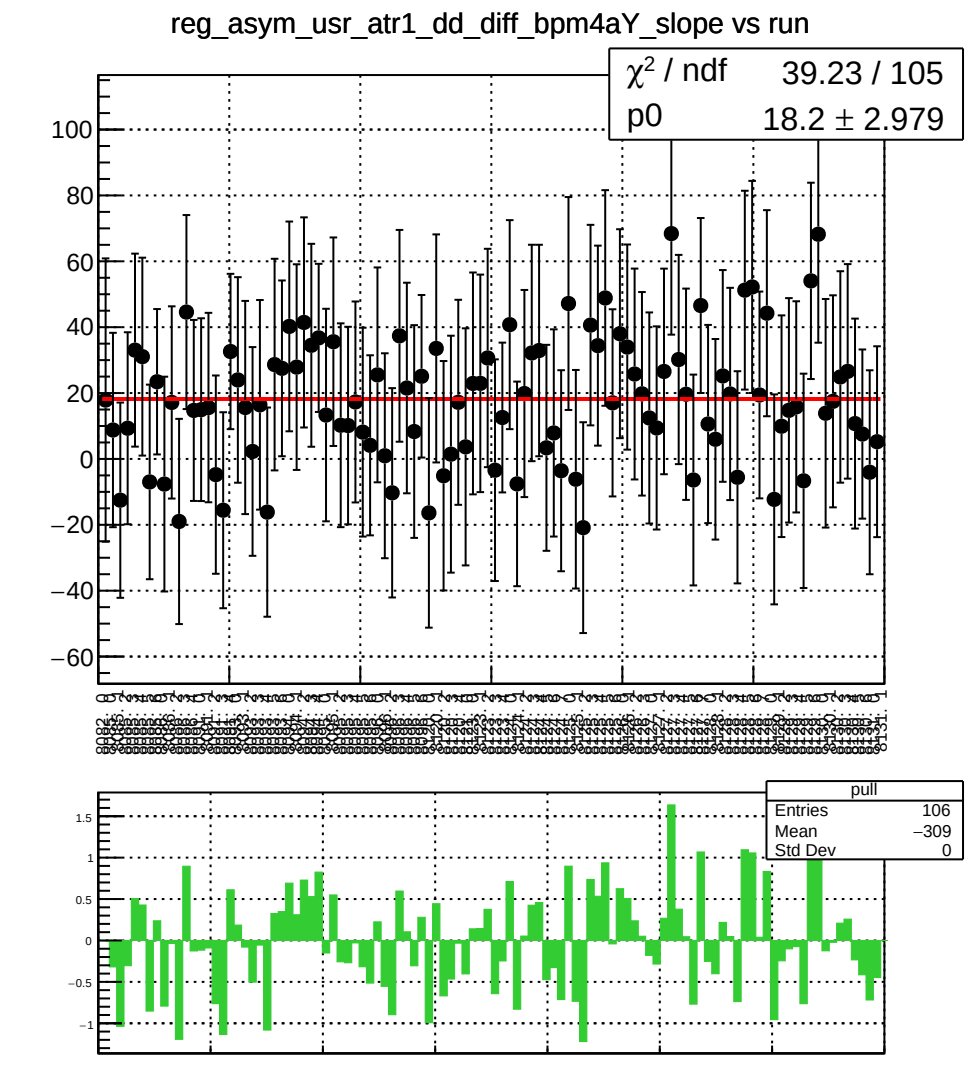

pull1D
Entries 106
Mean −0.01094
Std Dev 0.8185
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

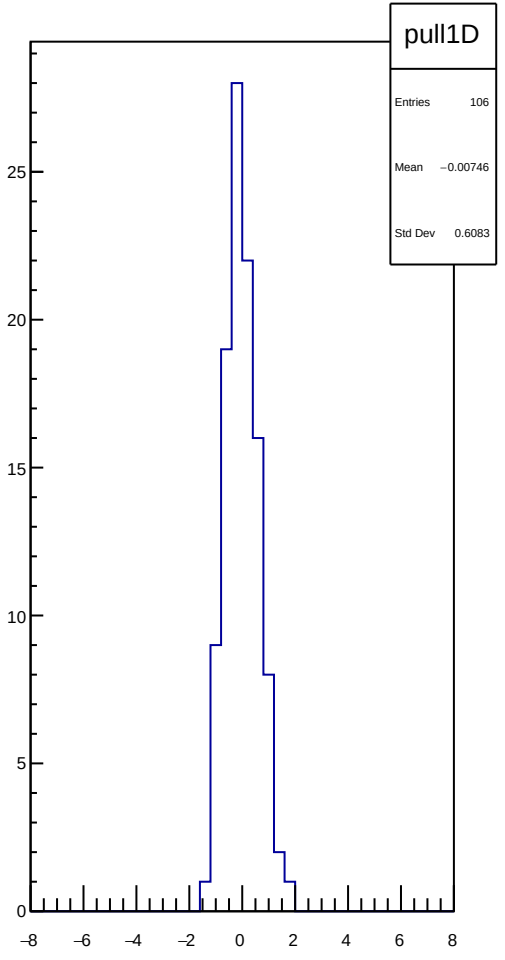

reg_asym_usr_atr1_avg_diff_bpm12X_slope vs run
χ² / ndf 702.1 / 105
p0 −26.76 ± 0.1151
pull
Entries 106
Mean −301.5
Std Dev 0

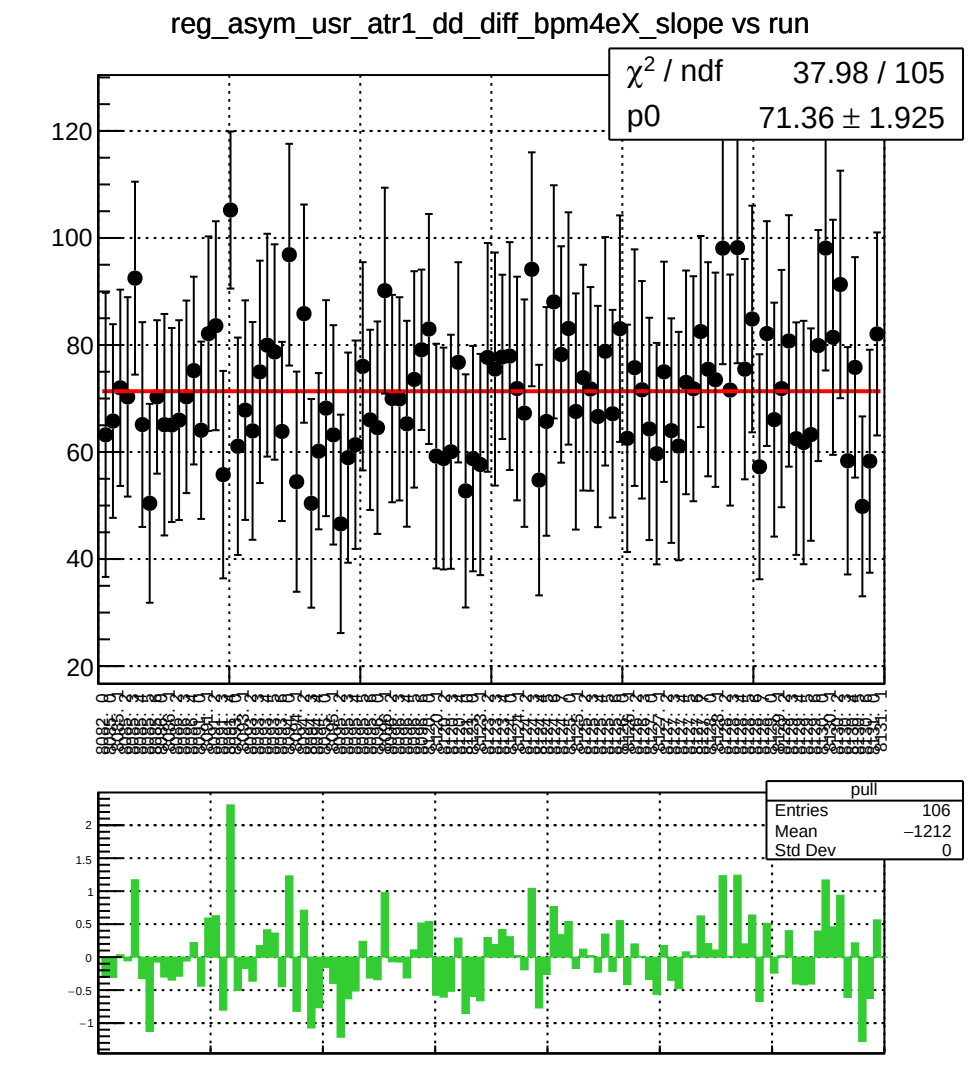

pull1D
Entries 106
Mean −0.172
Std Dev 2.568

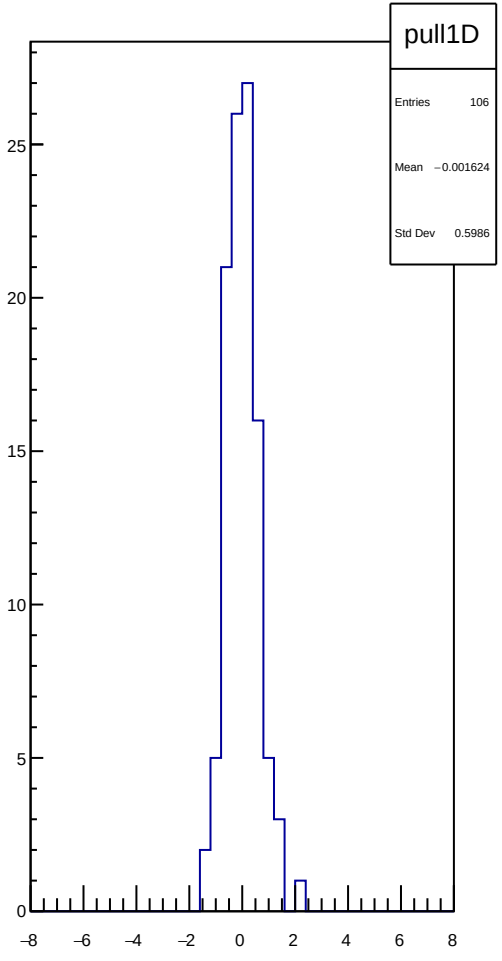

reg_asym_usr_atr1_dd_diff_bpm1X_slope vs run
χ² / ndf 36.94 / 105
p0 −15.05 ± 2.023
pull
Entries 106
Mean −9210
Std Dev 0

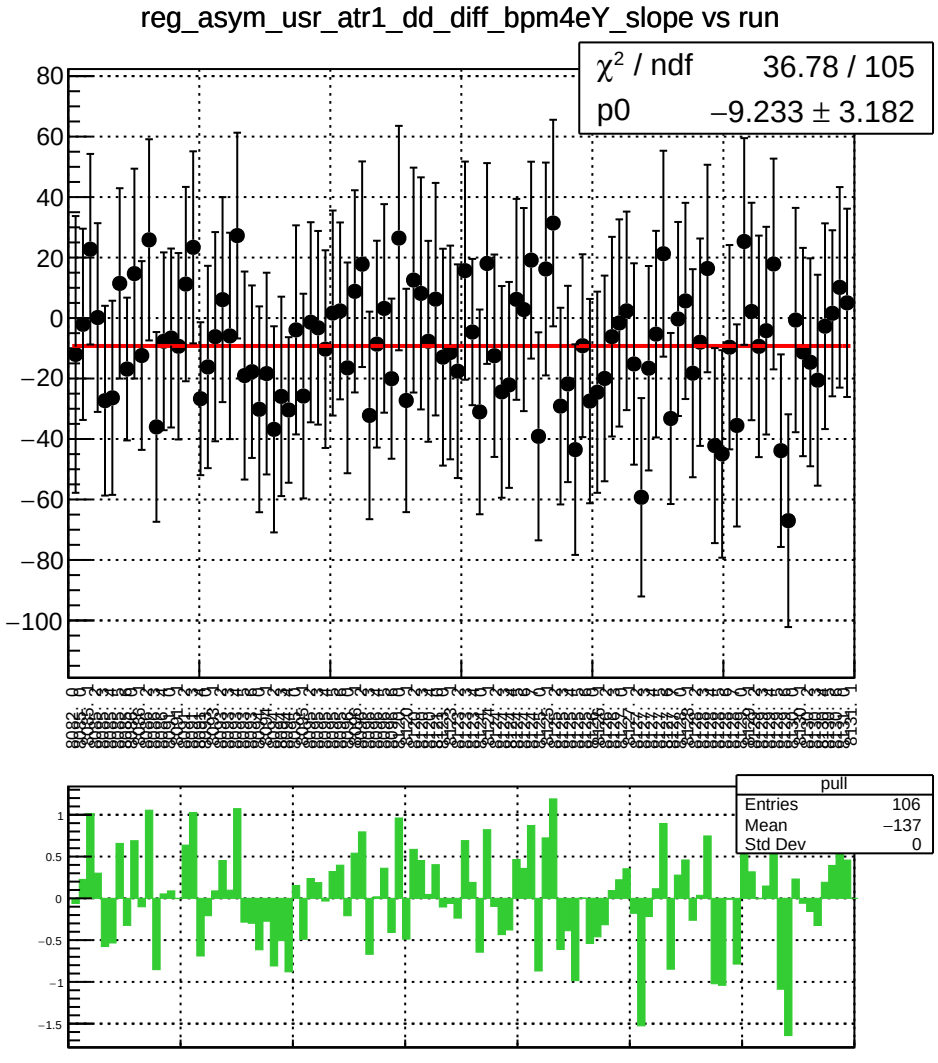

pull1D
Entries 106
Mean 0.0002937
Std Dev 0.5903

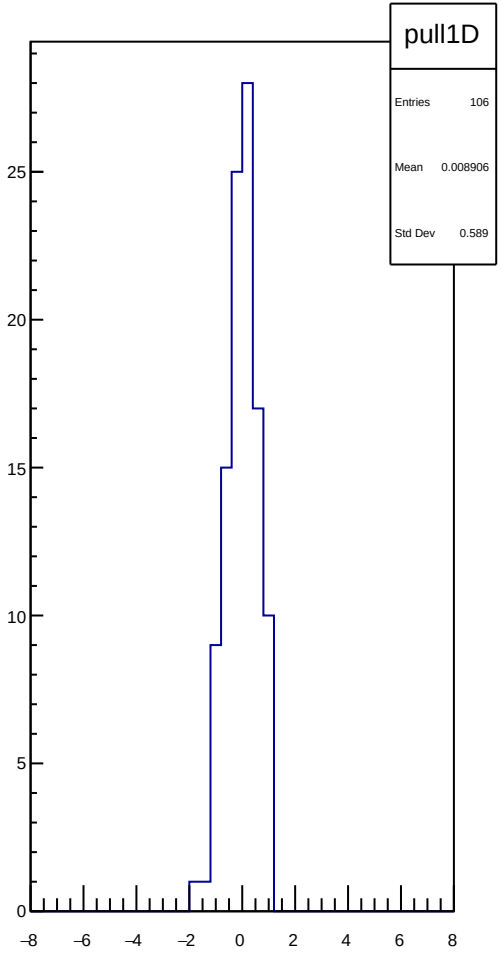

reg_asym_usr_atr1_dd_diff_bpm4aY_slope vs run
χ² / ndf 39.23 / 105
p0 18.2 ± 2.979
pull
Entries 106
Mean −309
Std Dev 0

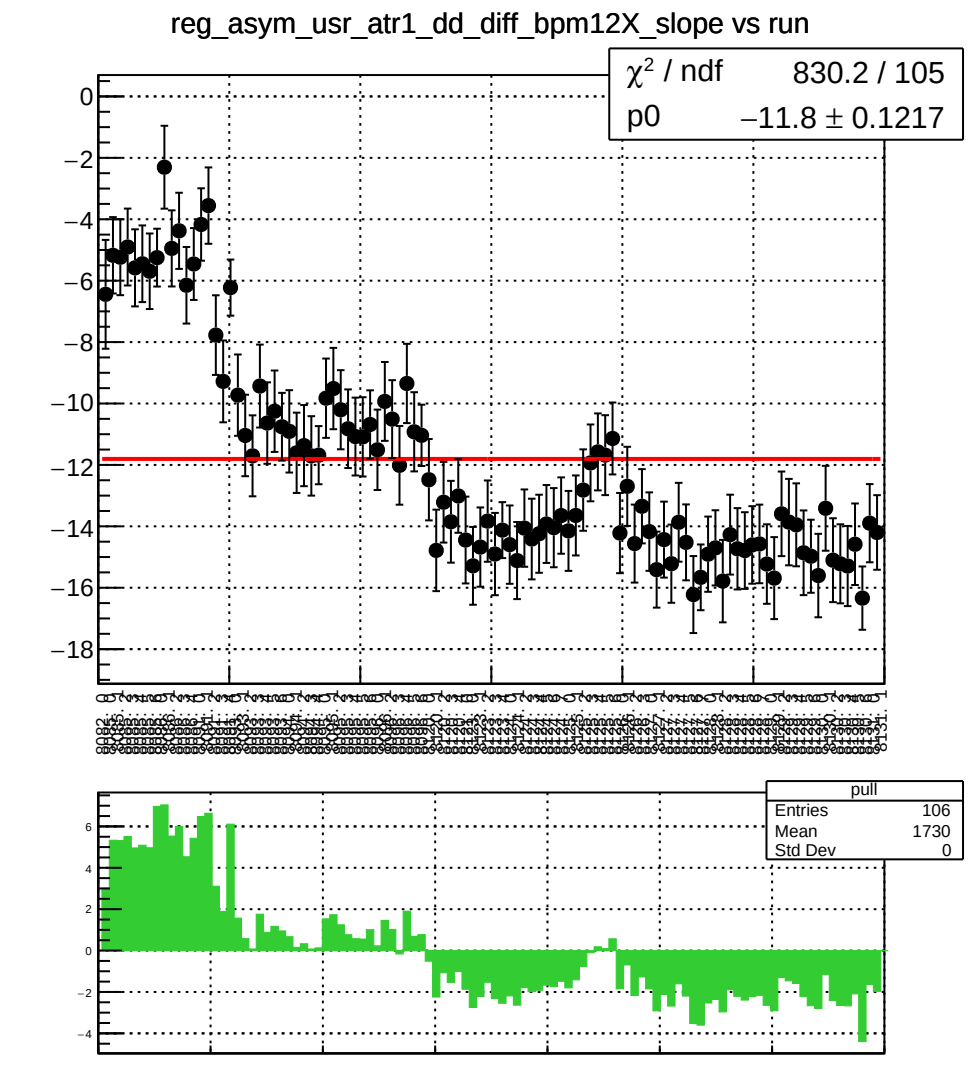

pull1D
Entries 106
Mean −0.00746
Std Dev 0.6083

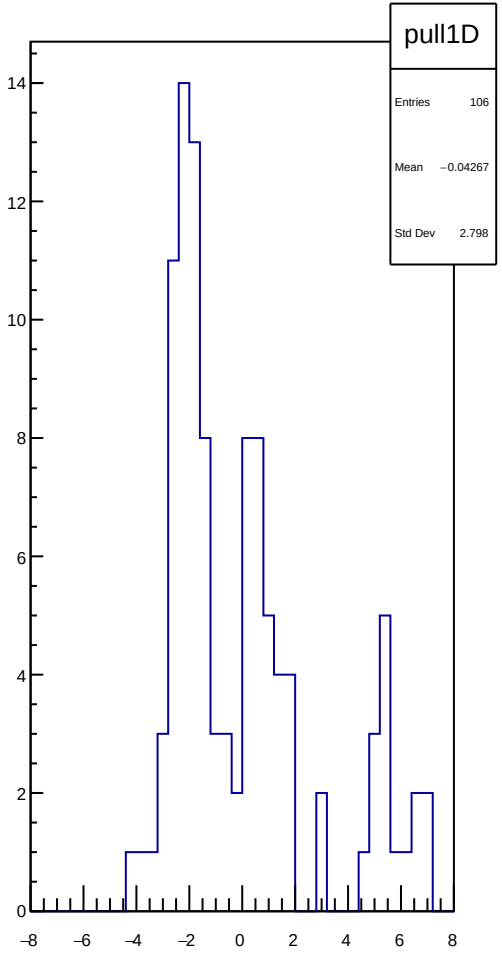

reg_asym_usr_atr1_dd_diff_bpm4eX_slope vs run
χ² / ndf 37.98 / 105
p0 71.36 ± 1.925
pull
Entries 106
Mean −1212
Std Dev 0

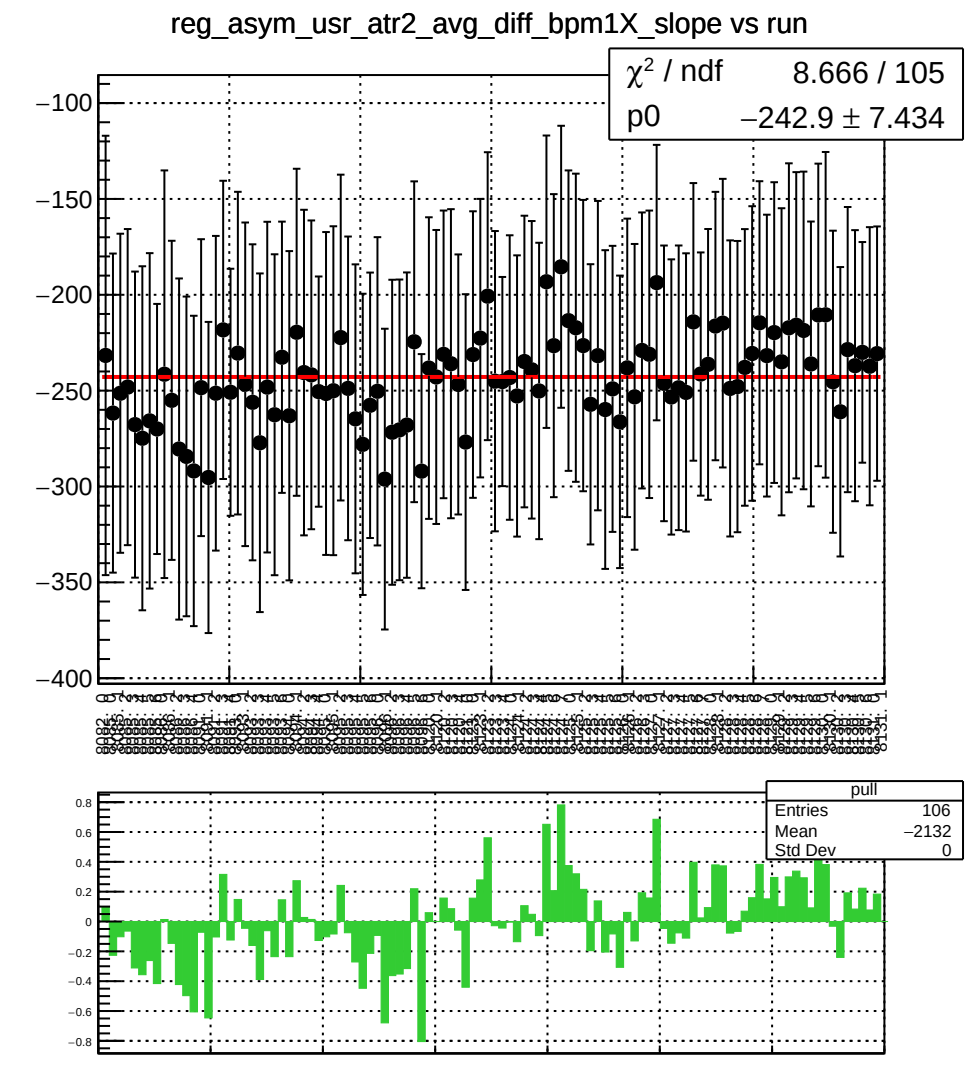

pull1D
Entries 106
Mean −0.001624
Std Dev 0.5986

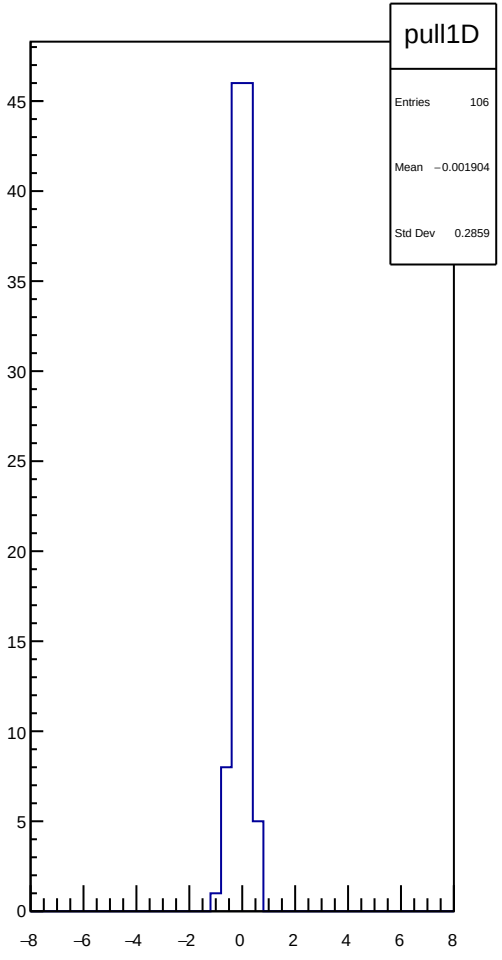

reg_asym_usr_atr1_dd_diff_bpm4eY_slope vs run
χ² / ndf 36.78 / 105
p0 −9.233 ± 3.182
pull
Entries 106
Mean −137
Std Dev 0

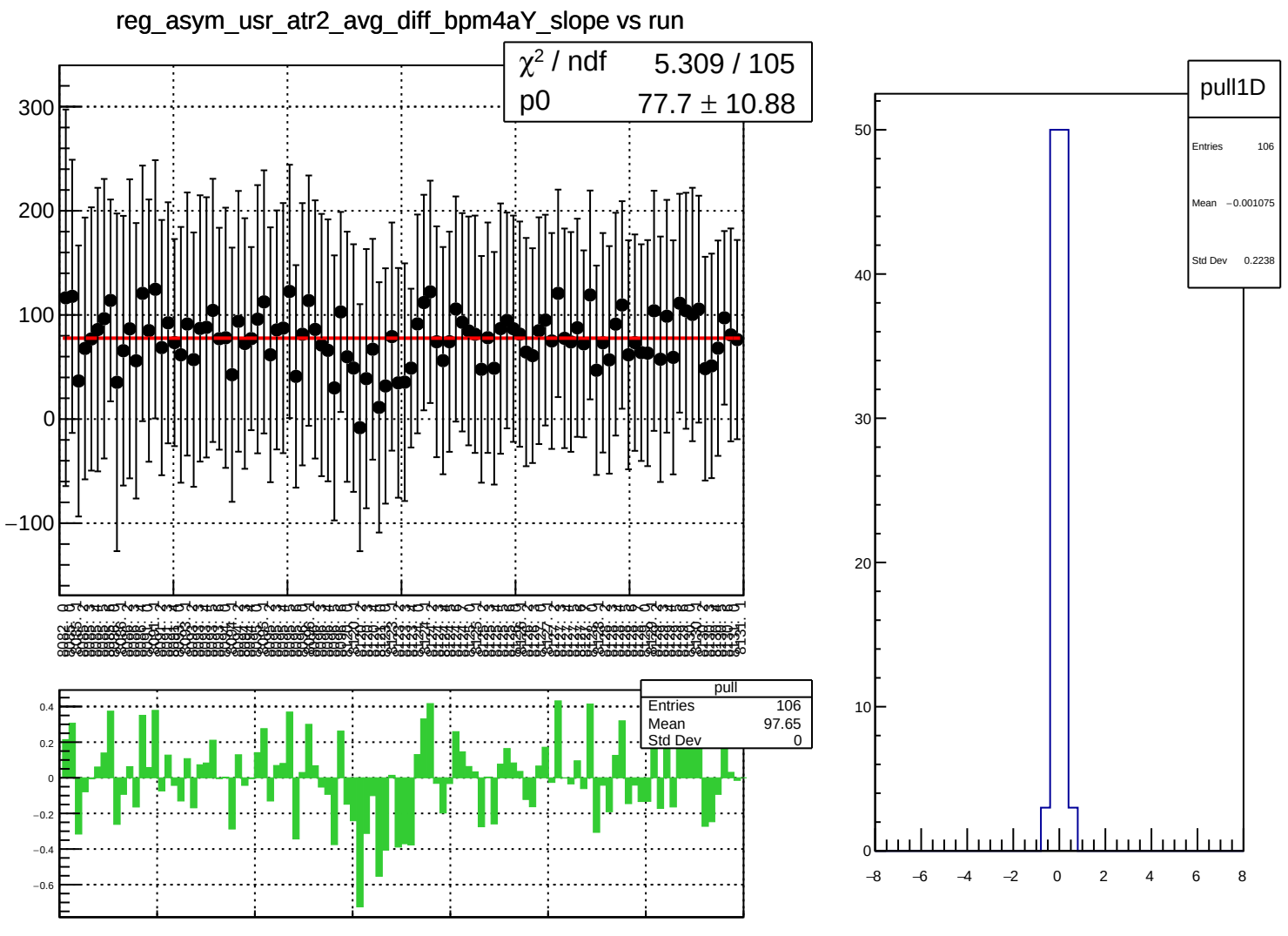

pull1D
Entries 106
Mean 0.008906
Std Dev 0.589

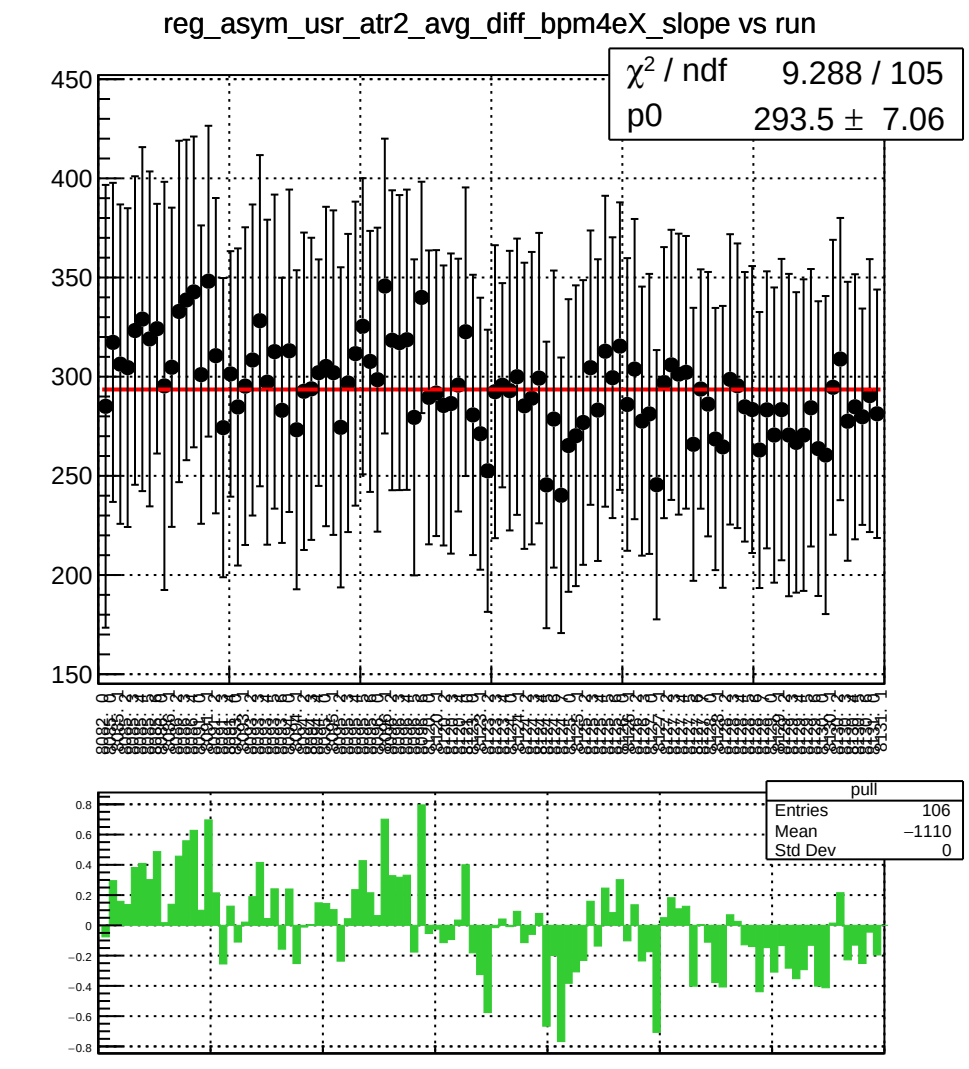

reg_asym_usr_atr1_dd_diff_bpm12X_slope vs run
χ² / ndf 830.2 / 105
p0 −11.8 ± 0.1217
pull
Entries 106
Mean 1730
Std Dev 0

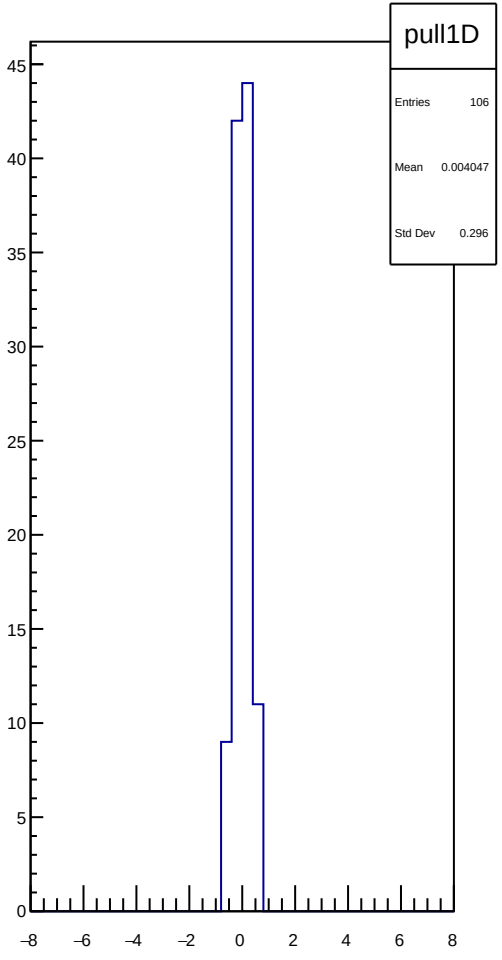

pull1D
Entries 106
Mean −0.04267
Std Dev 2.798

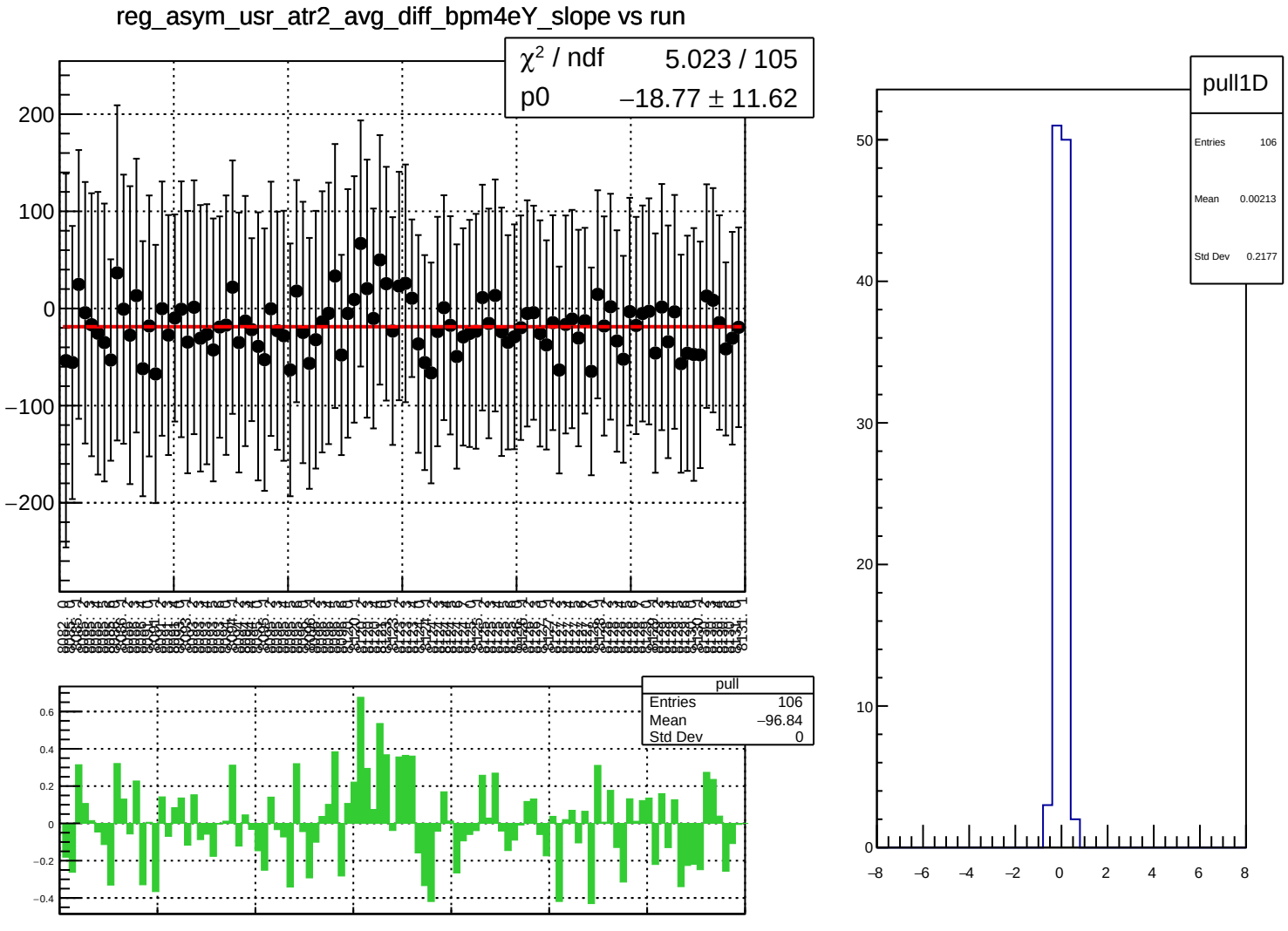

reg_asym_usr_atr2_avg_diff_bpm1X_slope vs run
χ² / ndf 8.666 / 105
p0 −242.9 ± 7.434
pull
Entries 106
Mean −2132
Std Dev 0

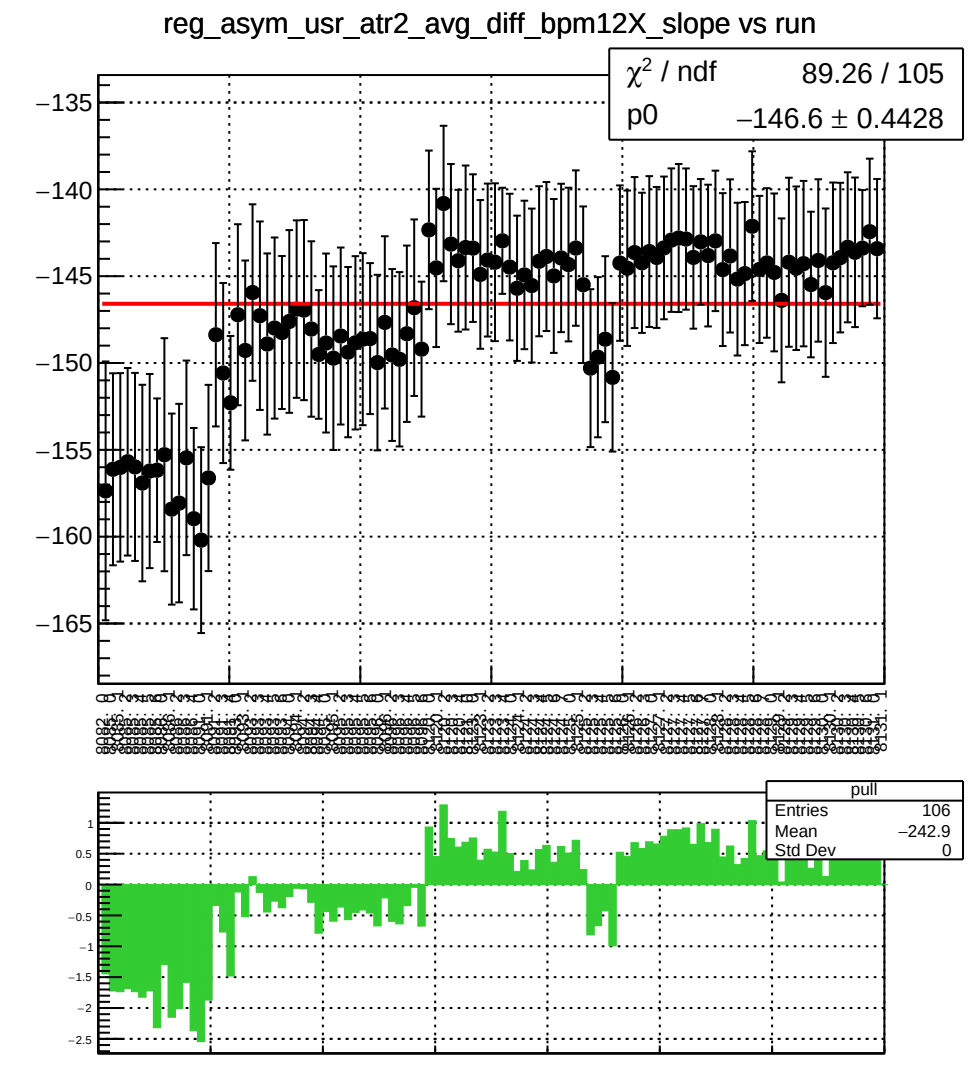

pull1D
Entries 106
Mean −0.001904
Std Dev 0.2859

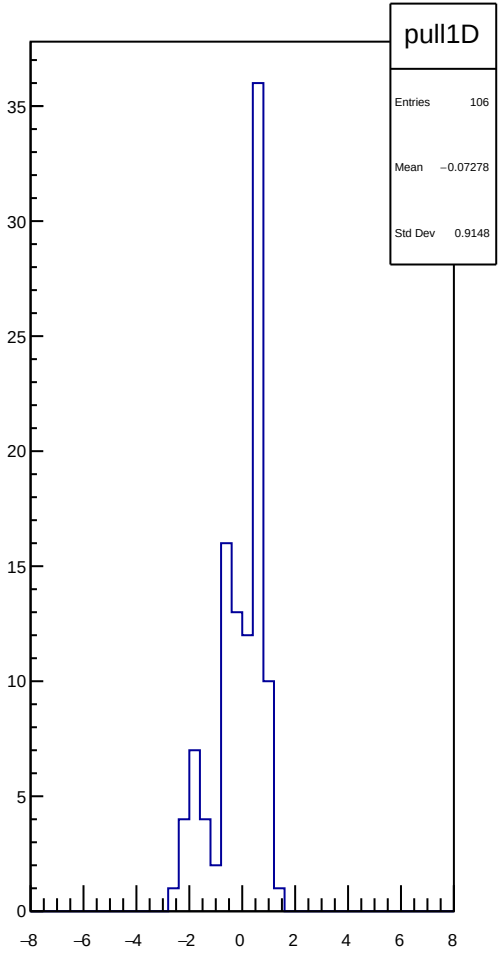

reg_asym_usr_atr2_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.309 / 105
p0 77.7 ± 10.88
300
200
100
0
−100
pull
Entries 106
Mean 97.65
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 106
Mean −0.001075
Std Dev 0.2238
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

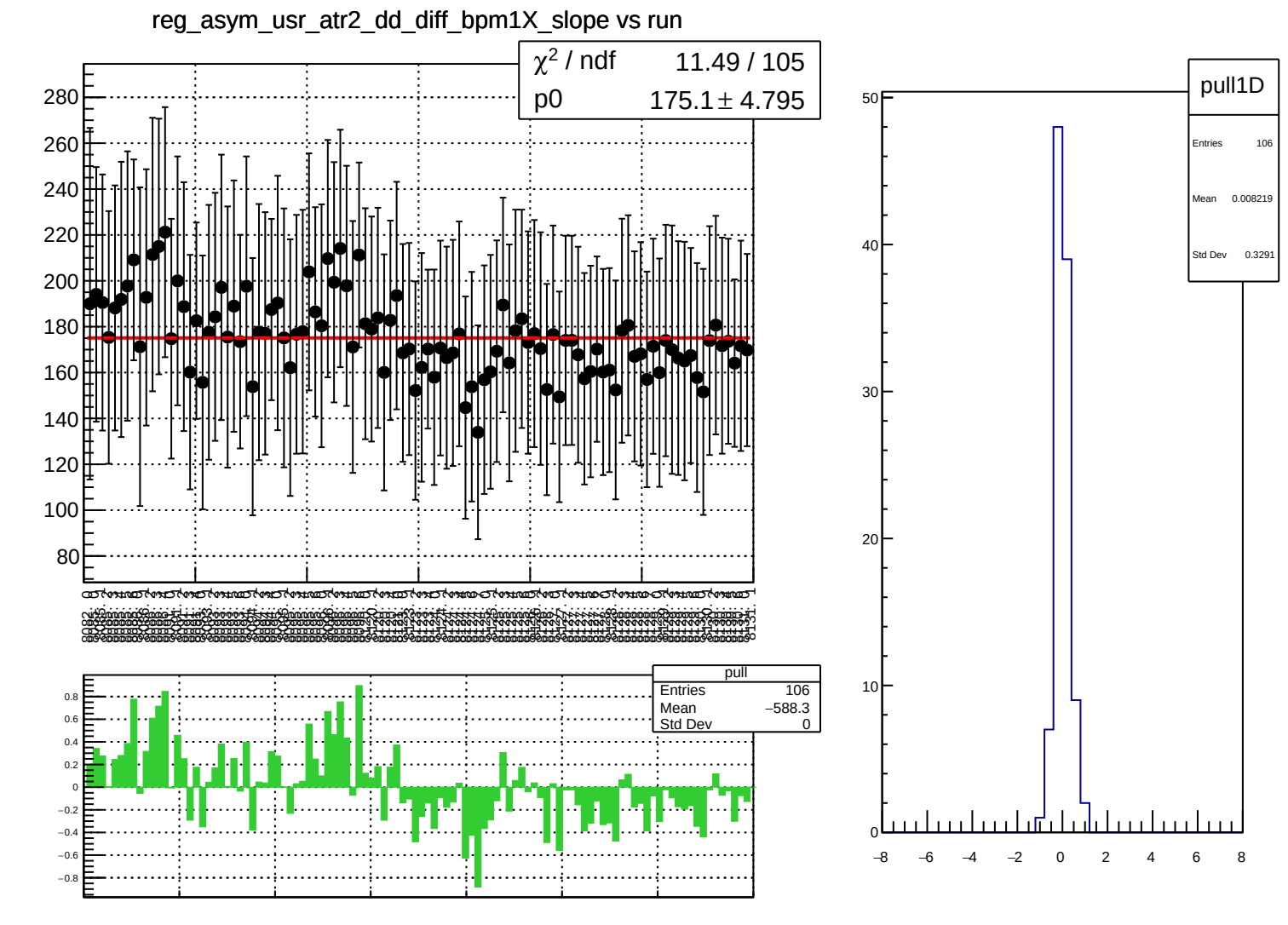

reg_asym_usr_atr2_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.288 / 105
p0 293.5 ± 7.06
pull
Entries 106
Mean −1110
Std Dev 0

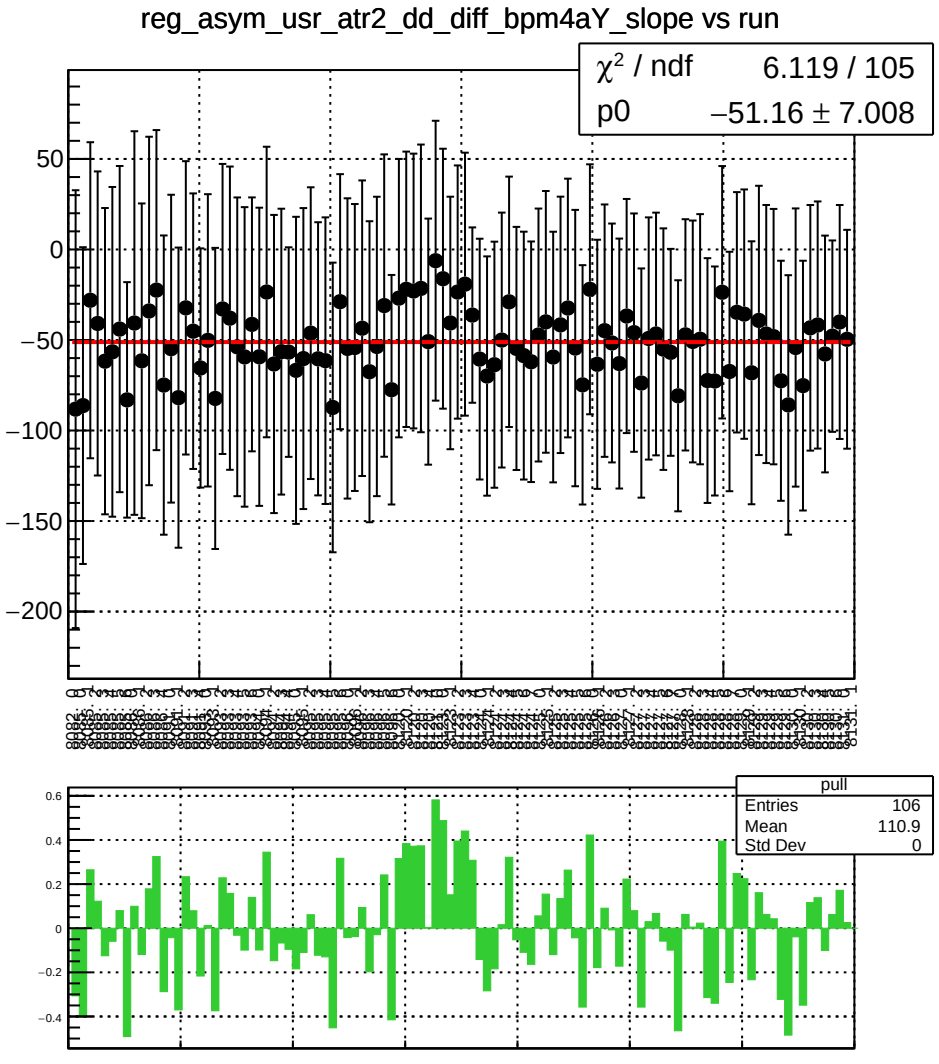

pull1D
Entries 106
Mean 0.004047
Std Dev 0.296

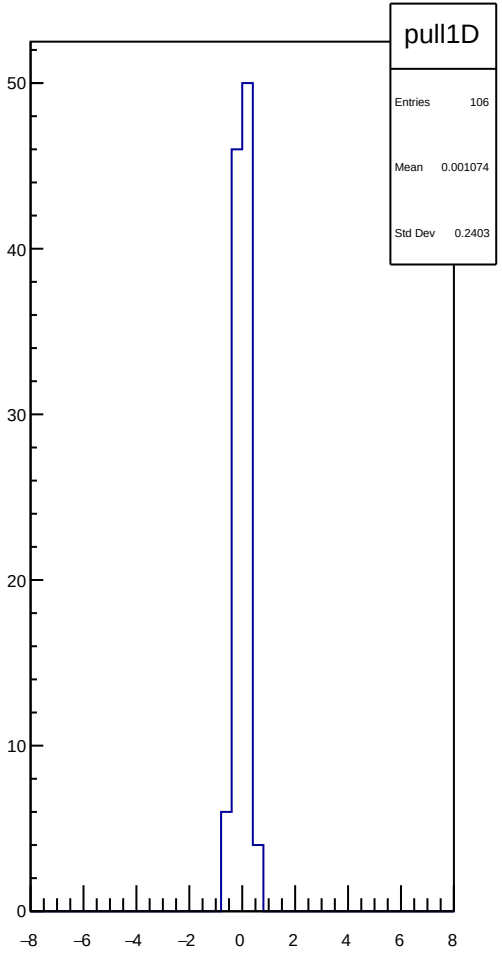

reg_asym_usr_atr2_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.023 / 105
p0 −18.77 ± 11.62
200
100
0
−100
−200
pull
Entries 106
Mean −96.84
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 106
Mean 0.00213
Std Dev 0.2177
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

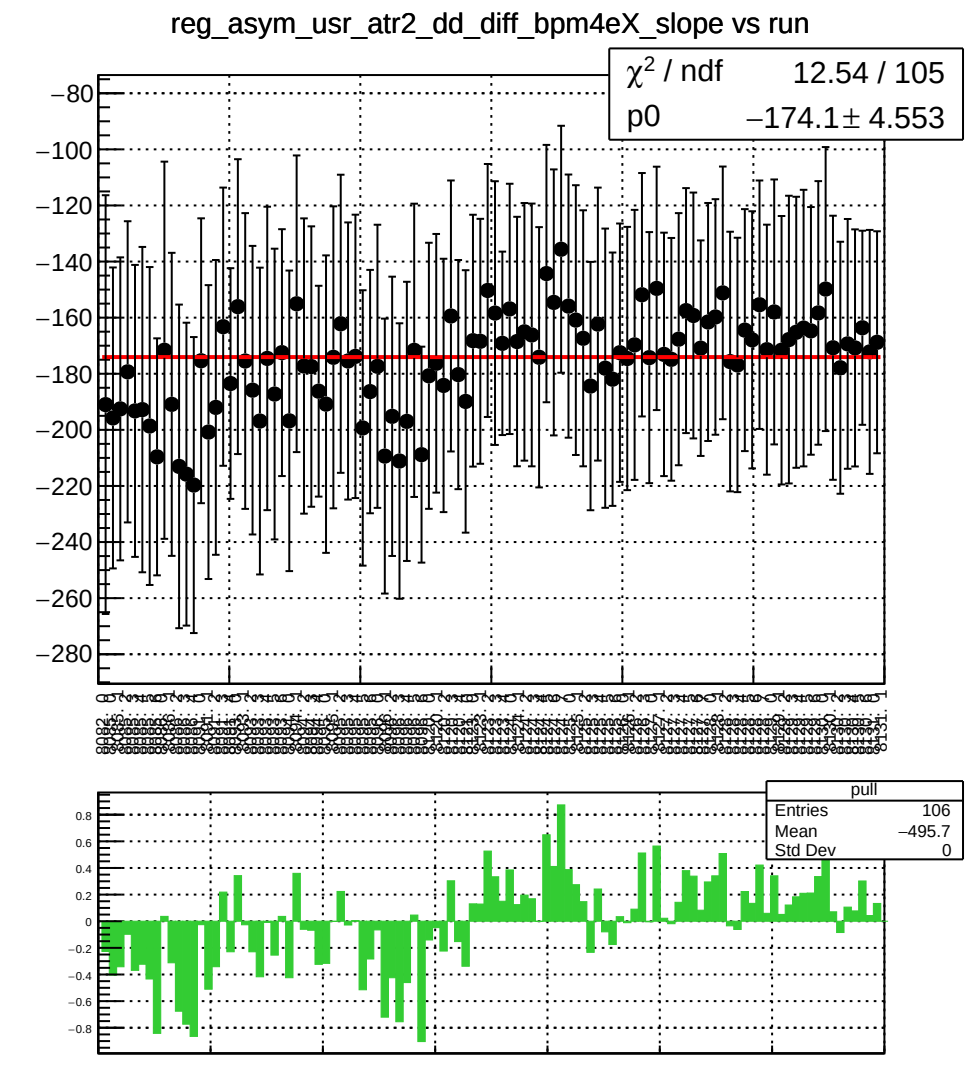

reg_asym_usr_atr2_avg_diff_bpm12X_slope vs run
χ² / ndf 89.26 / 105
p0 −146.6 ± 0.4428
pull
Entries 106
Mean −242.9
Std Dev 0

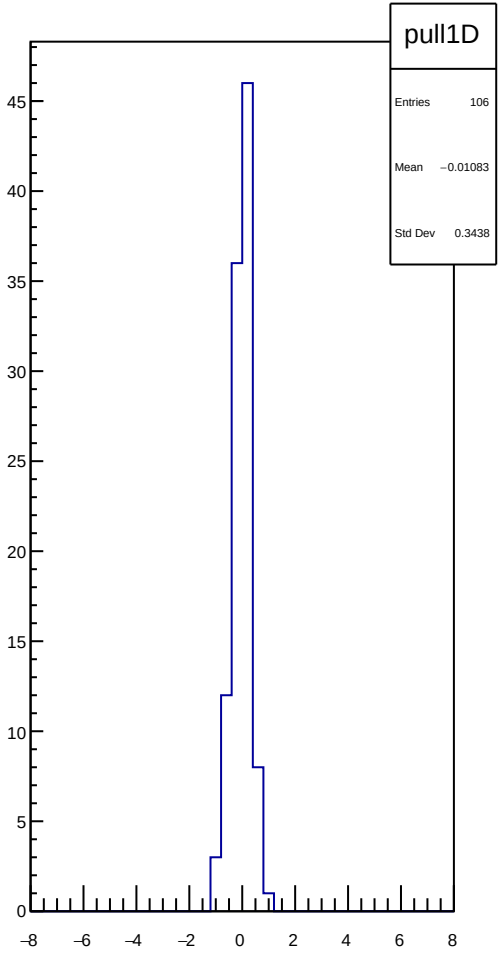

pull1D
Entries 106
Mean −0.07278
Std Dev 0.9148

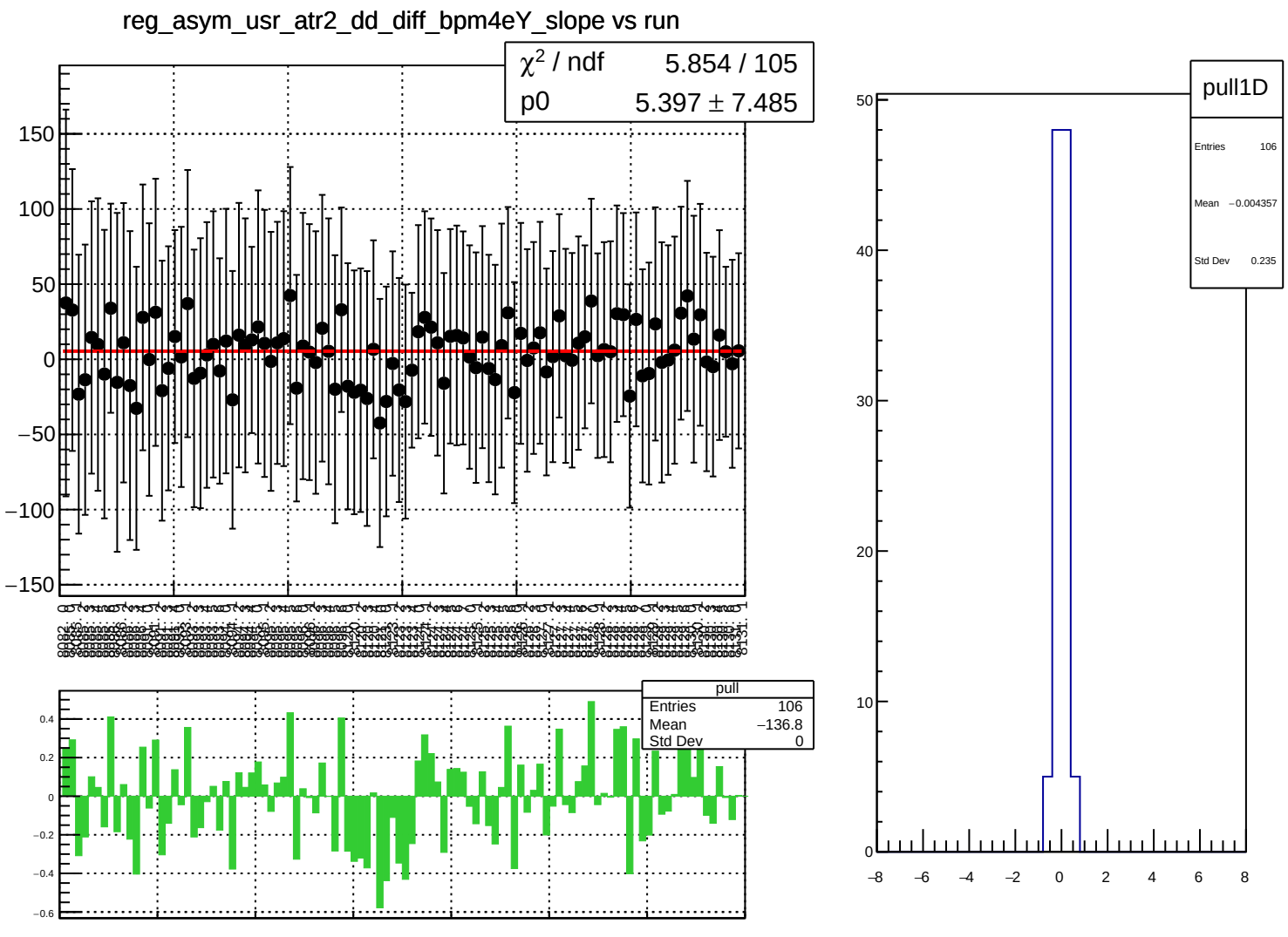

reg_asym_usr_atr2_dd_diff_bpm1X_slope vs run
χ² / ndf 11.49 / 105
p0 175.1 ± 4.795
pull
Entries 106
Mean −588.3
Std Dev 0
pull1D
Entries 106
Mean 0.008219
Std Dev 0.3291

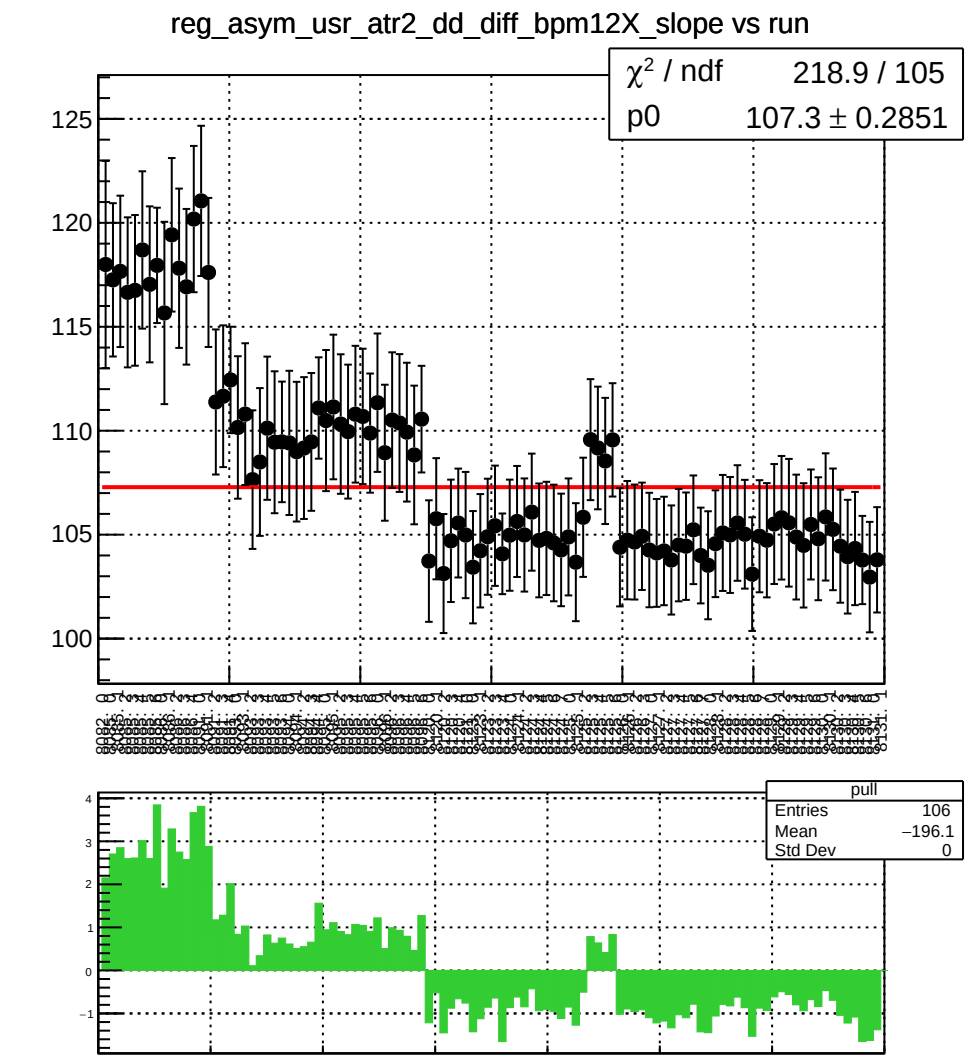

reg_asym_usr_atr2_dd_diff_bpm4aY_slope vs run
χ² / ndf 6.119 / 105
p0 −51.16 ± 7.008
50
0
−50
−100
−150
−200
pull
Entries 106
Mean 110.9
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4

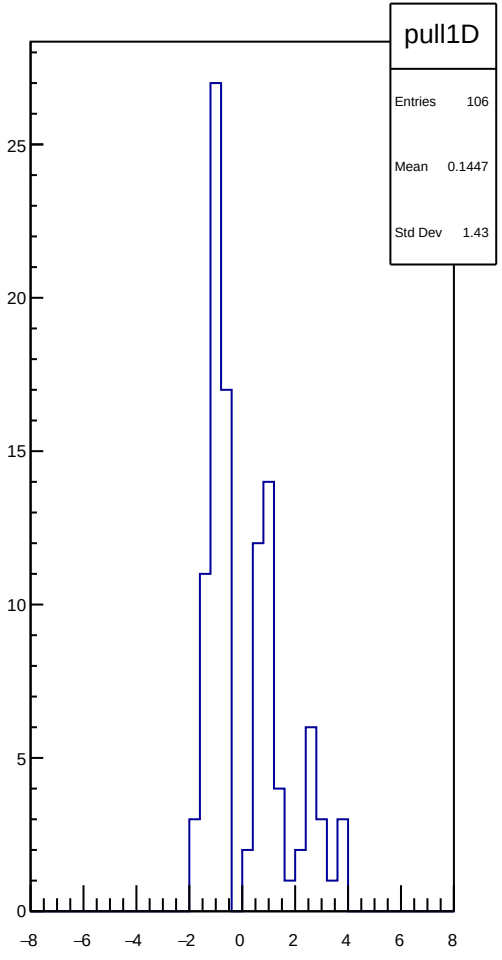

pull1D
Entries 106
Mean 0.001074
Std Dev 0.2403
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

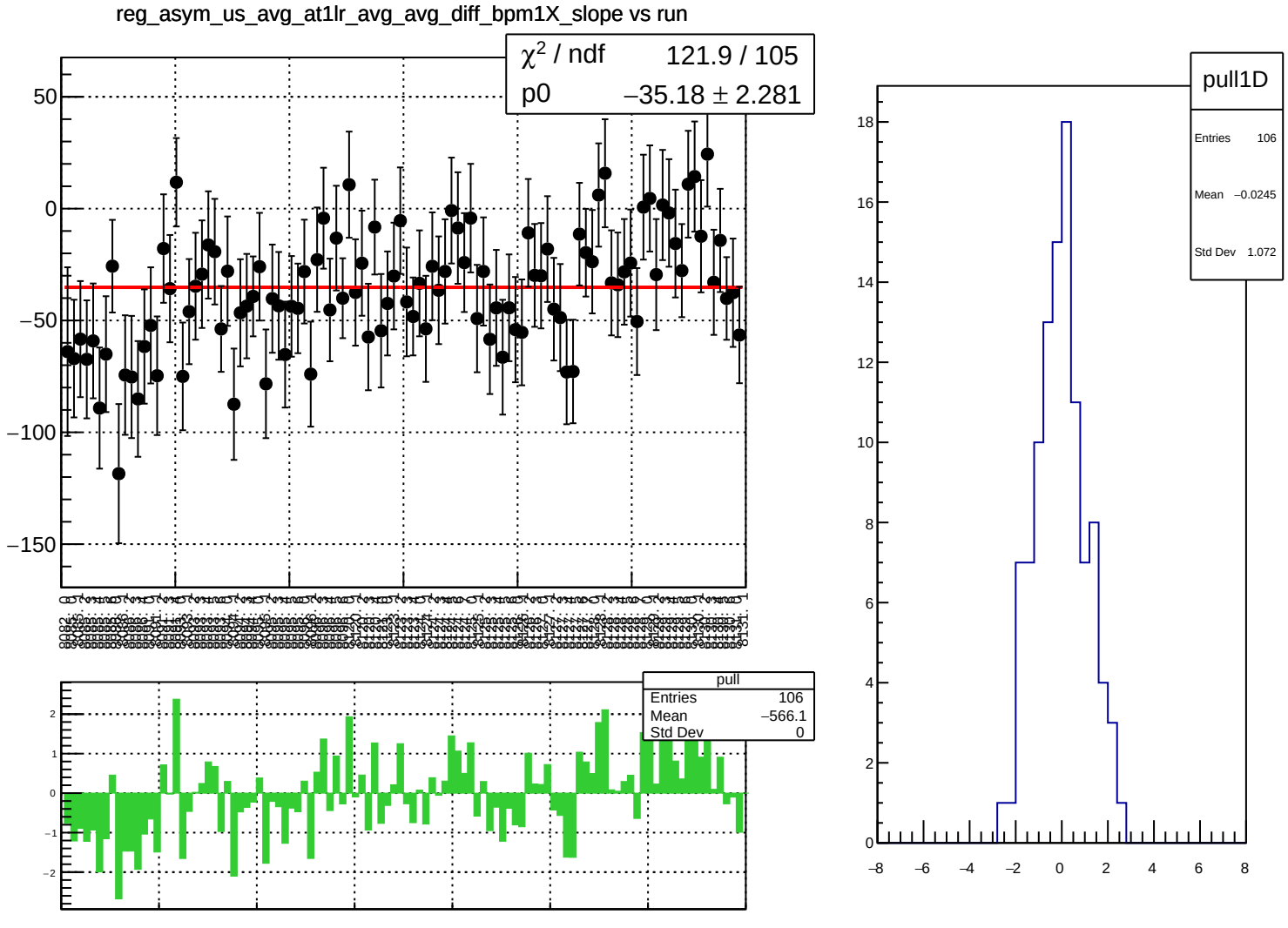

reg_asym_usr_atr2_dd_diff_bpm4eX_slope vs run
χ² / ndf 12.54 / 105
p0 −174.1± 4.553
pull
Entries 106
Mean −495.7
Std Dev 0

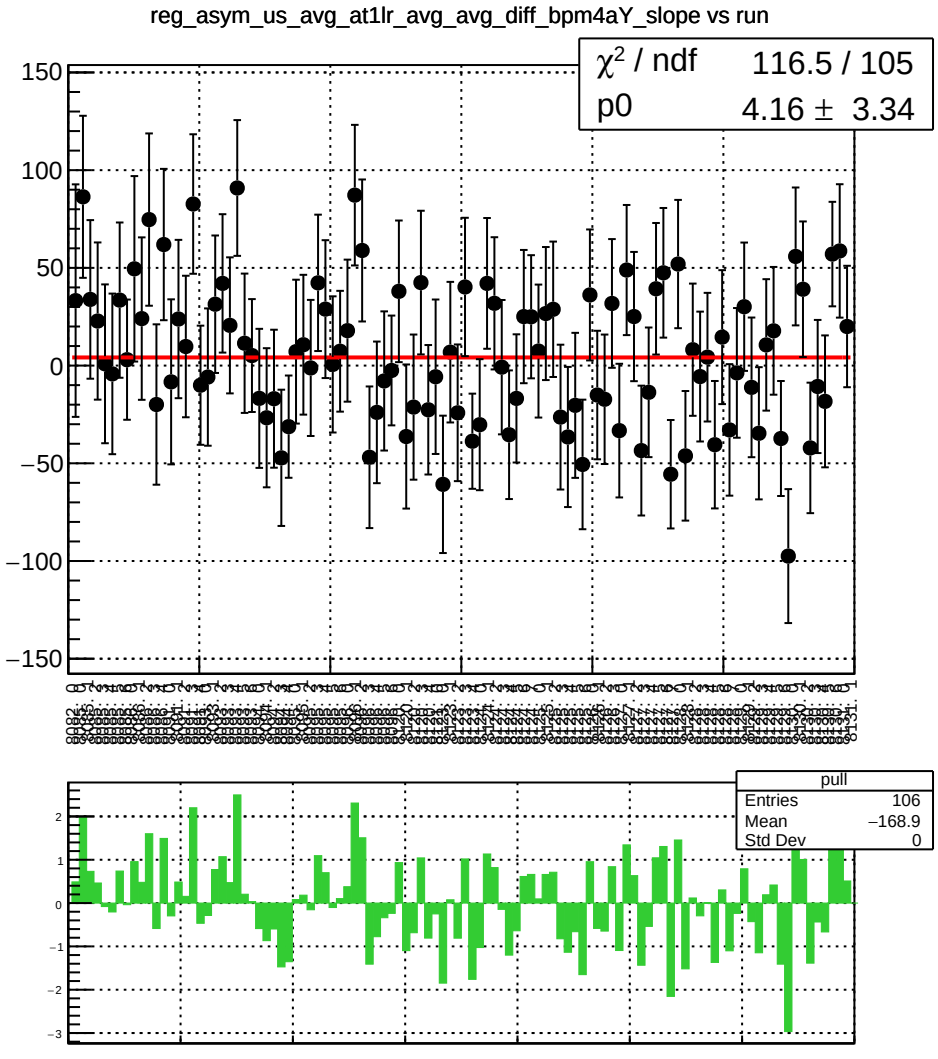

pull1D
Entries 106
Mean −0.01083
Std Dev 0.3438

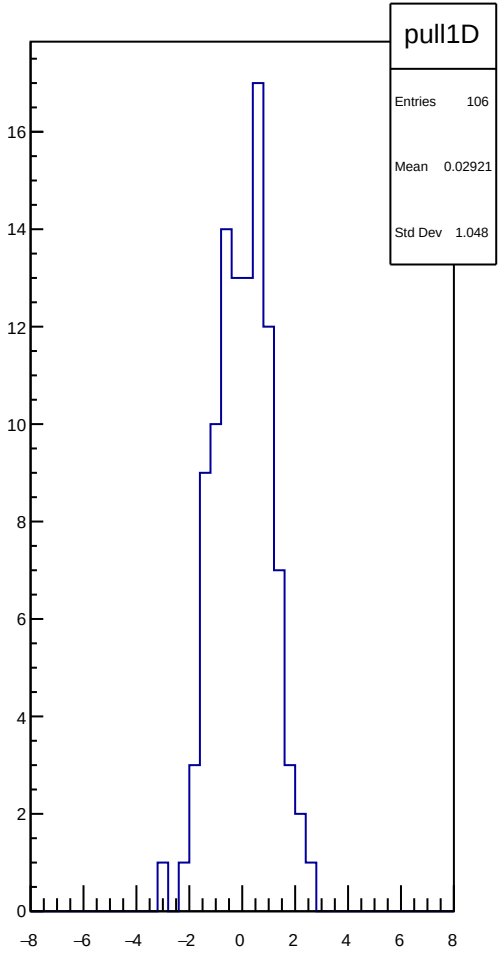

reg_asym_usr_atr2_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.854 / 105
p0 5.397 ± 7.485
150
100
50
0
−50
−100
−150
pull
Entries 106
Mean −136.8
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 106
Mean −0.004357
Std Dev 0.235
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

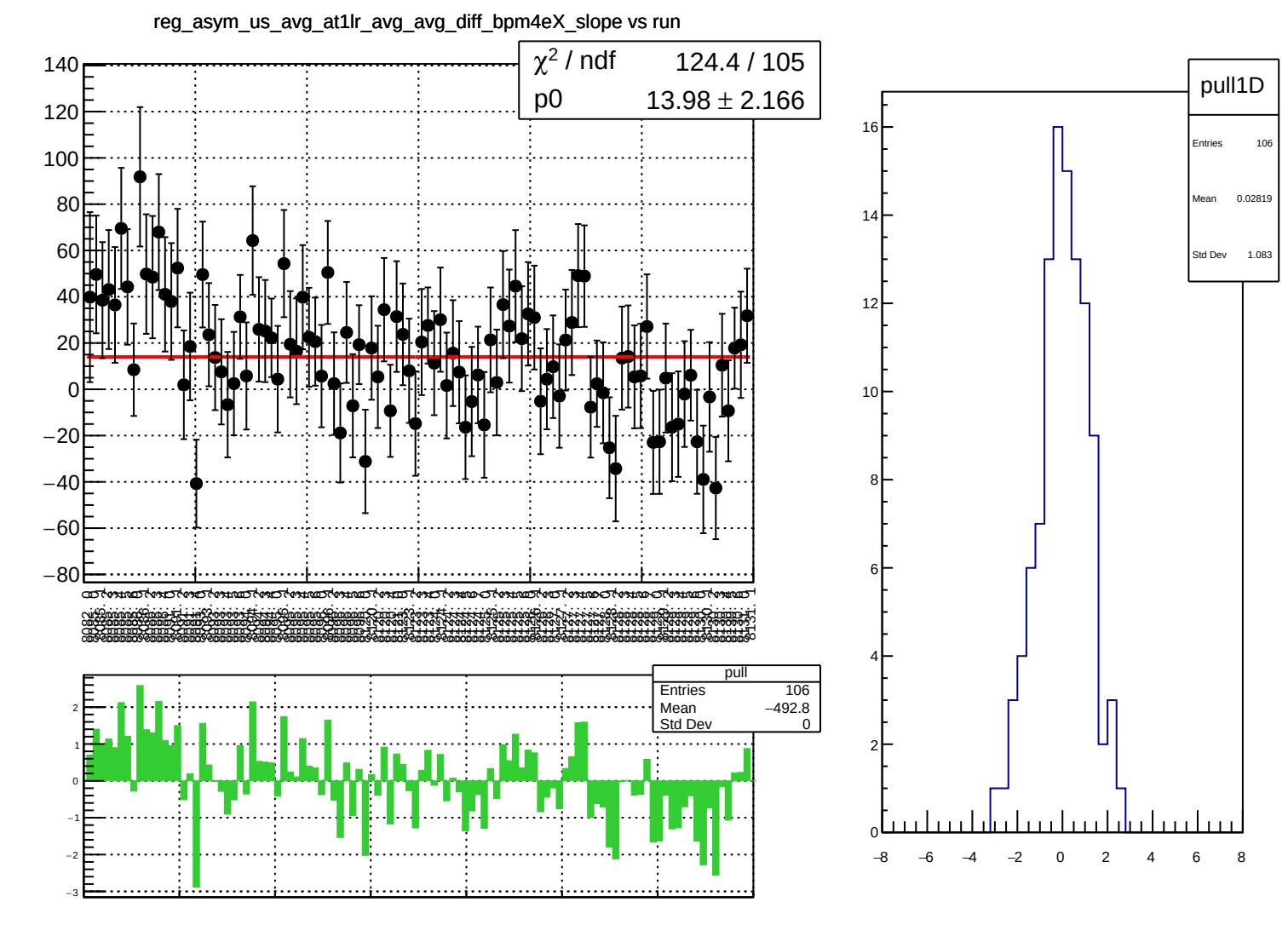

reg_asym_usr_atr2_dd_diff_bpm12X_slope vs run
χ² / ndf 218.9 / 105
p0 107.3 ± 0.2851
125
120
115
110
105
100
pull
Entries 106
Mean −196.1
Std Dev 0
4
3
2
1
0
−1

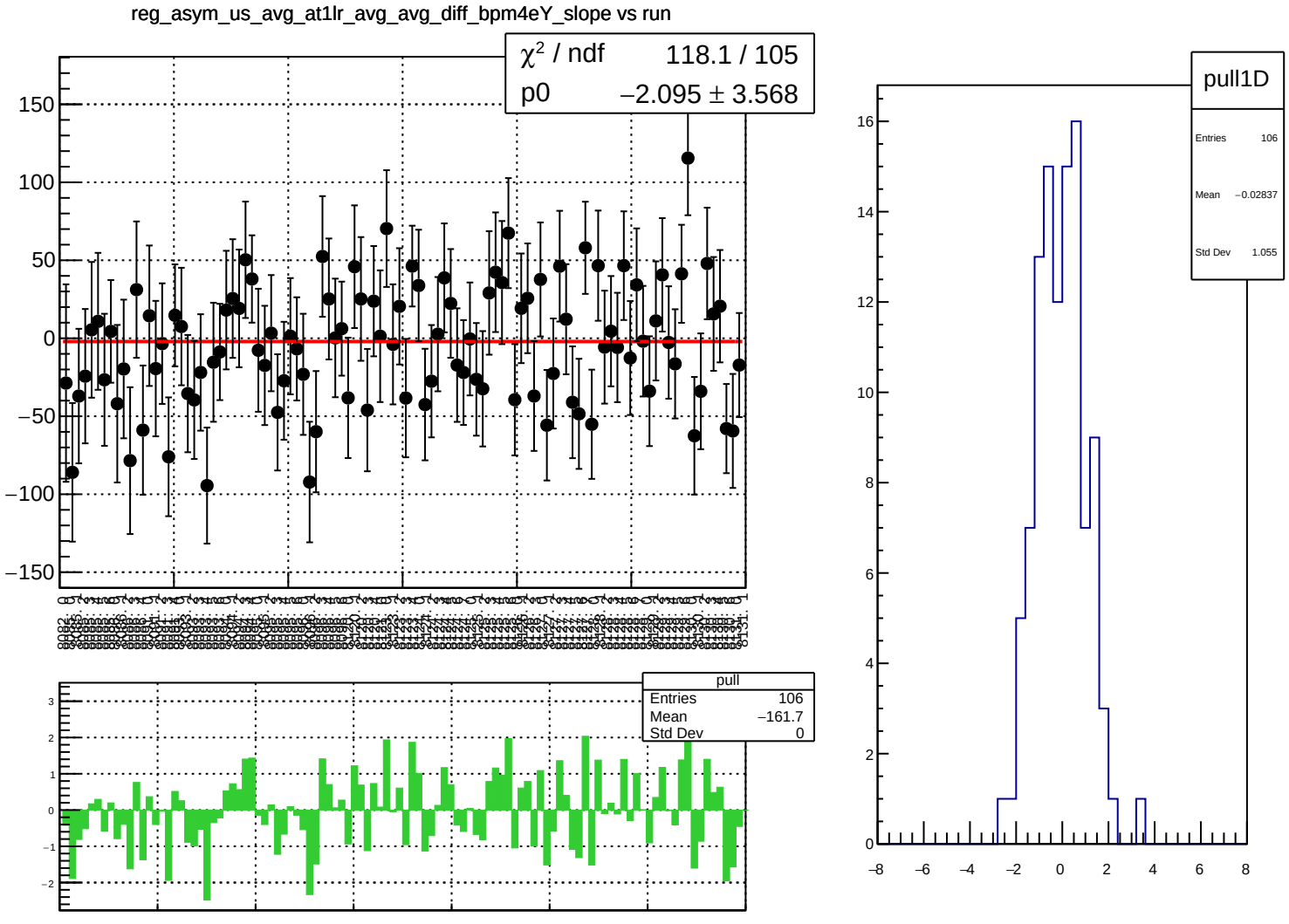

pull1D
Entries 106
Mean 0.1447
Std Dev 1.43
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

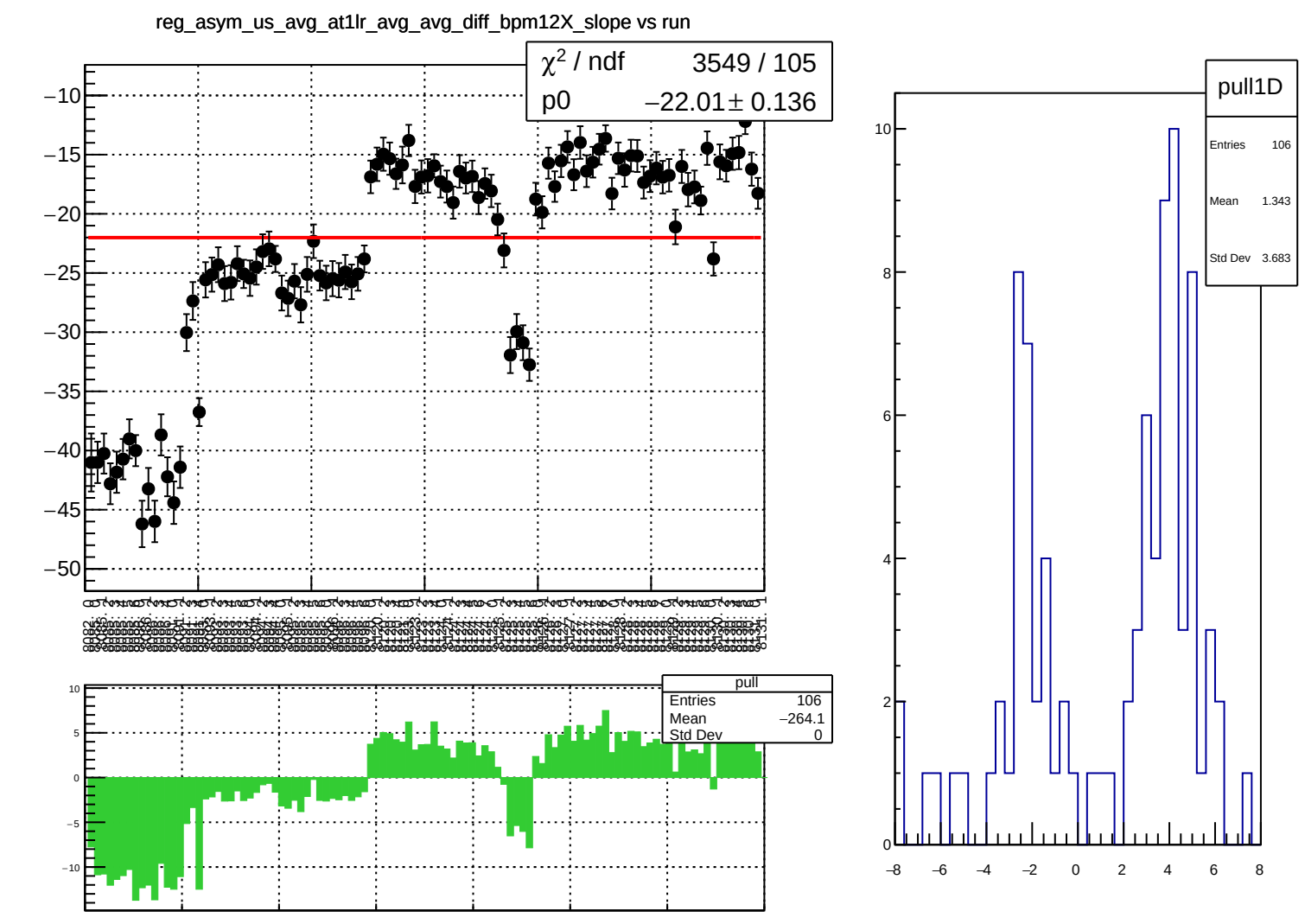

reg_asym_us_avg_at1lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 121.9 / 105
p0 −35.18 ± 2.281
50
0
−50
−100
−150
pull
Entries 106
Mean −566.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 106
Mean −0.0245
Std Dev 1.072
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

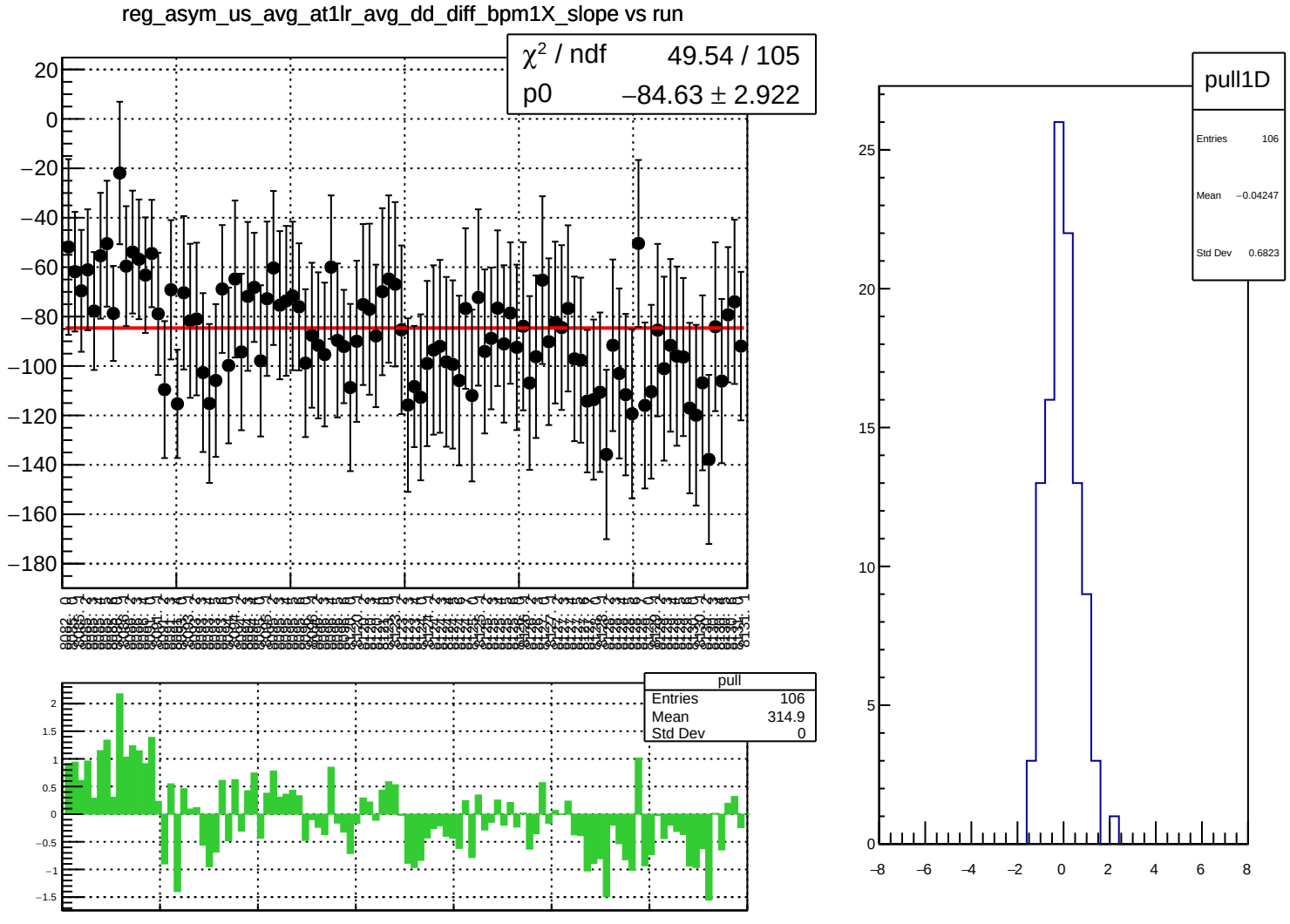

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 116.5 / 105
p0 4.16 ± 3.34
150
100
50
0
−50
−100
−150
pull
Entries 106
Mean −168.9
Std Dev 0
2
1
0
−1
−2
−3

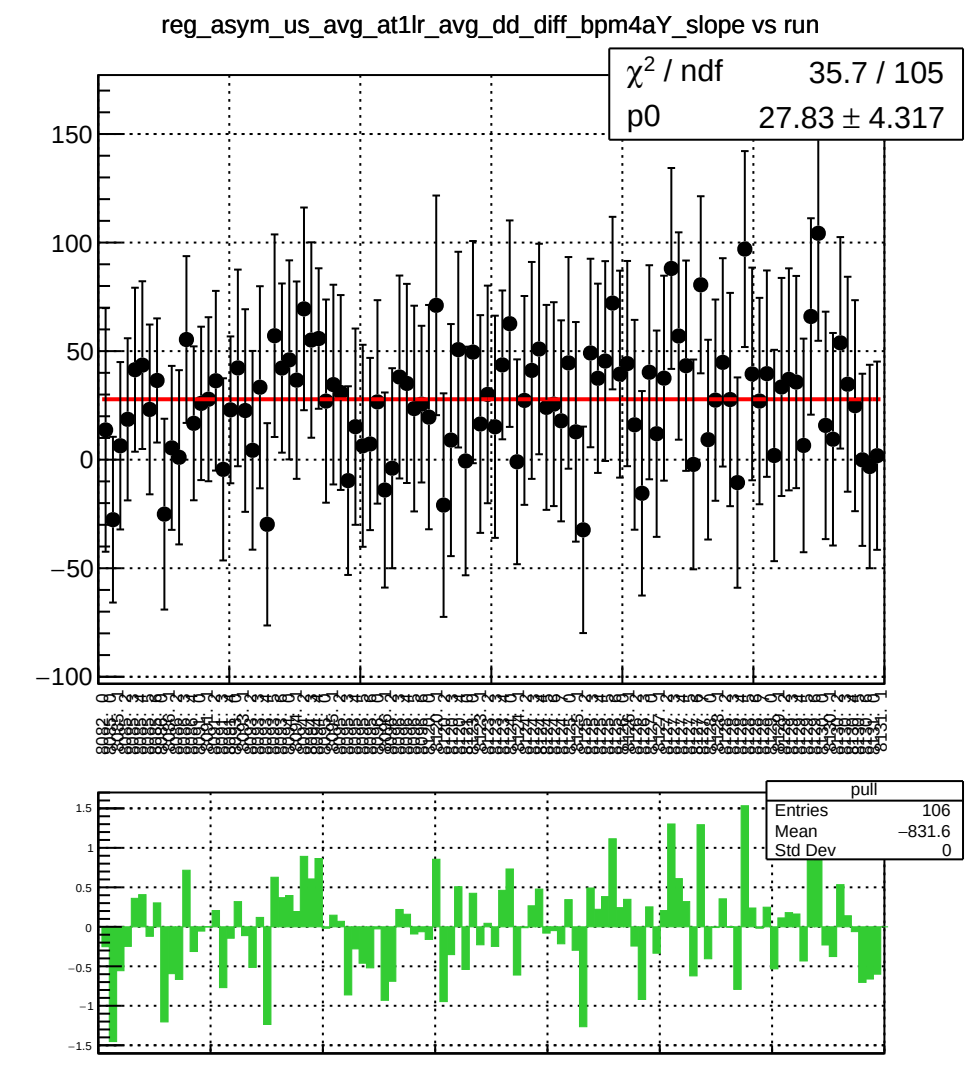

pull1D
Entries 106
Mean 0.02921
Std Dev 1.048
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

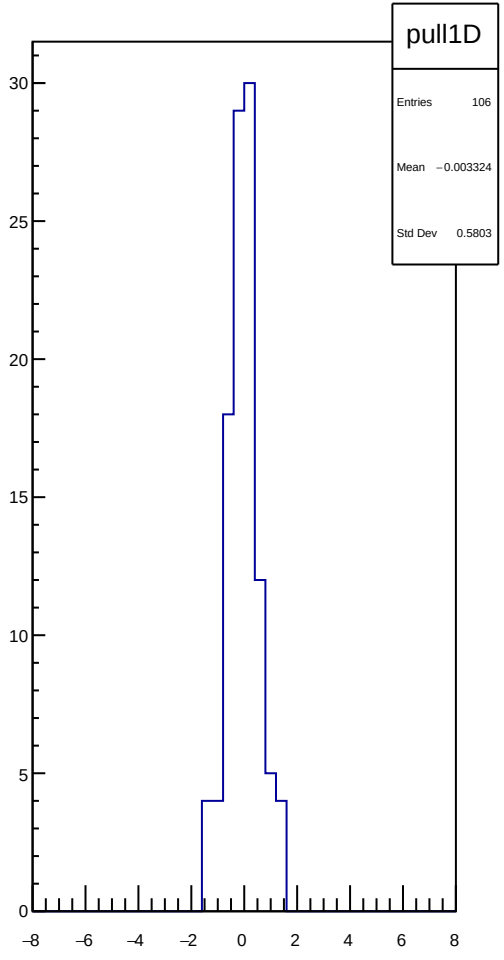

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 124.4 / 105
p0 13.98 ± 2.166
pull
Entries 106
Mean −492.8
Std Dev 0
pull1D
Entries 106
Mean 0.02819
Std Dev 1.083

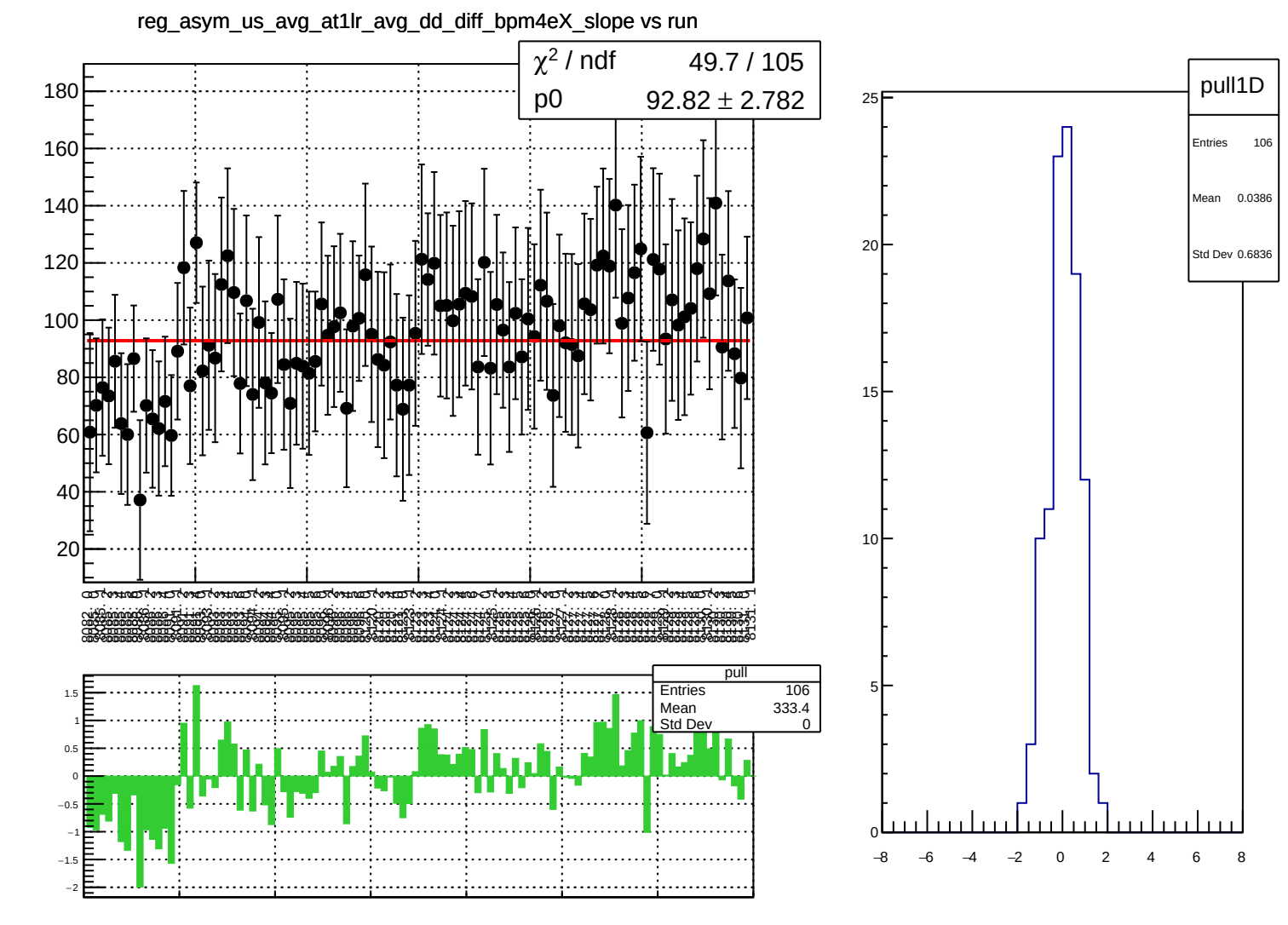

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 118.1 / 105
p0 −2.095 ± 3.568
150
100
50
0
−50
−100
−150
pull
Entries 106
Mean −161.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 106
Mean −0.02837
Std Dev 1.055
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

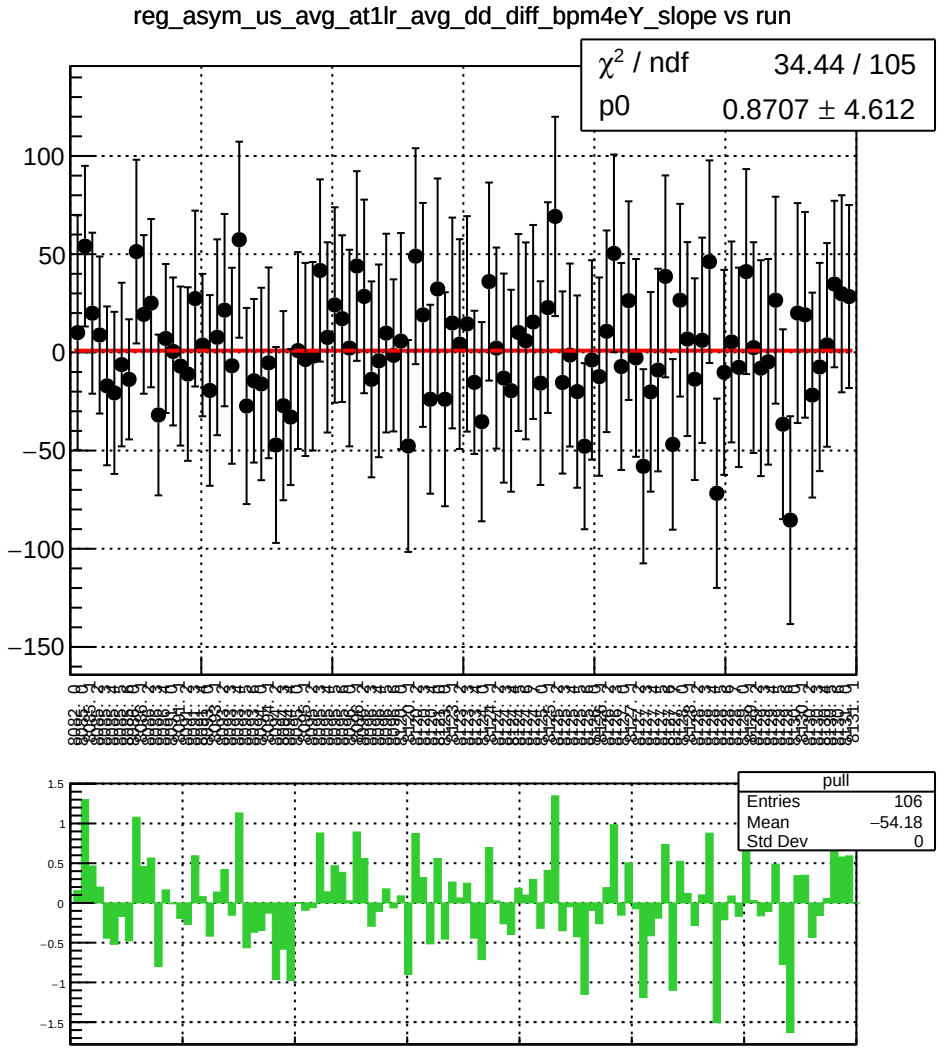

reg_asym_us_avg_at1lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 3549 / 105
p0 −22.01 ± 0.136
pull
Entries 106
Mean −264.1
Std Dev 0
pull1D
Entries 106
Mean 1.343
Std Dev 3.683

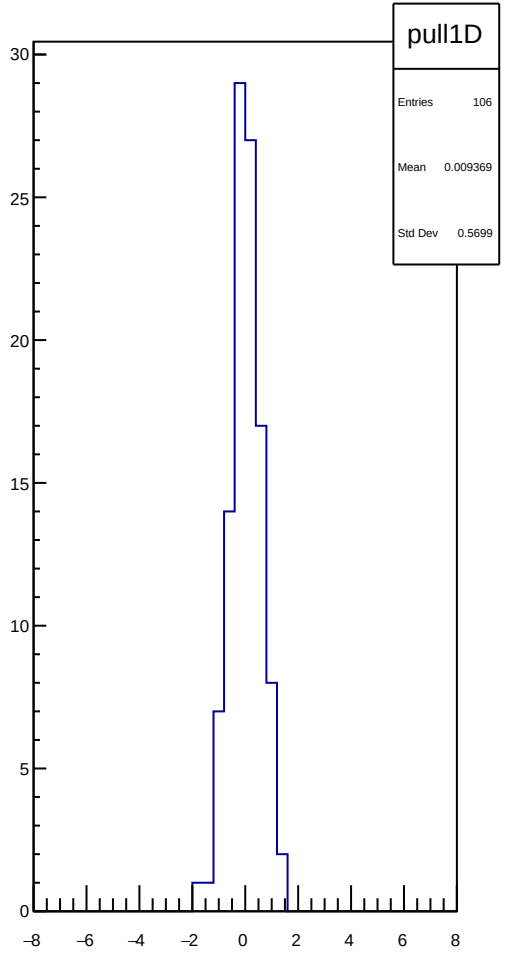

reg_asym_us_avg_at1lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 49.54 / 105
p0 −84.63 ± 2.922
pull
Entries 106
Mean 314.9
Std Dev 0
pull1D
Entries 106
Mean −0.04247
Std Dev 0.6823

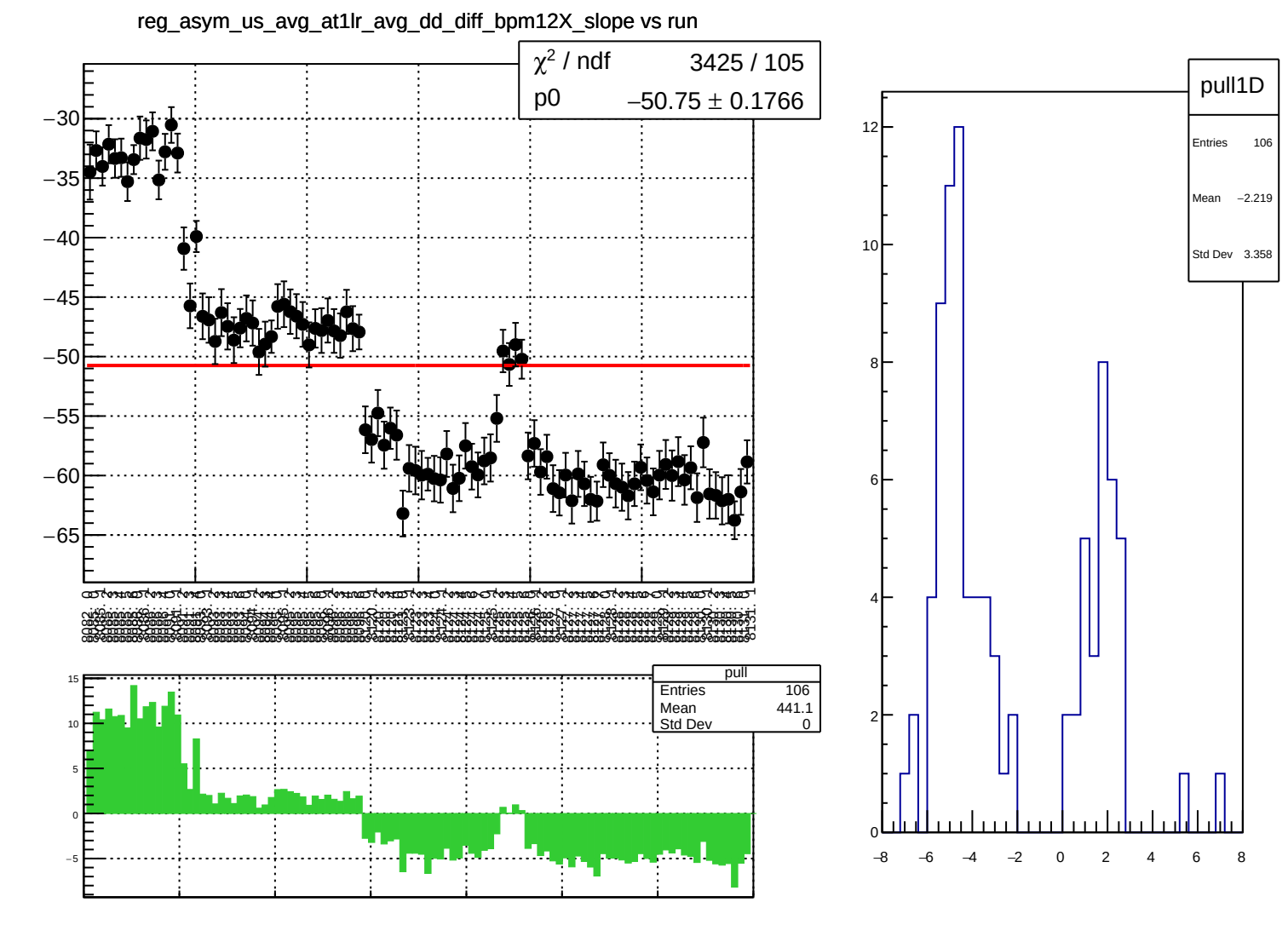

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 35.7 / 105
p0 27.83 ± 4.317
150
100
50
0
−50
−100
pull
Entries 106
Mean −831.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

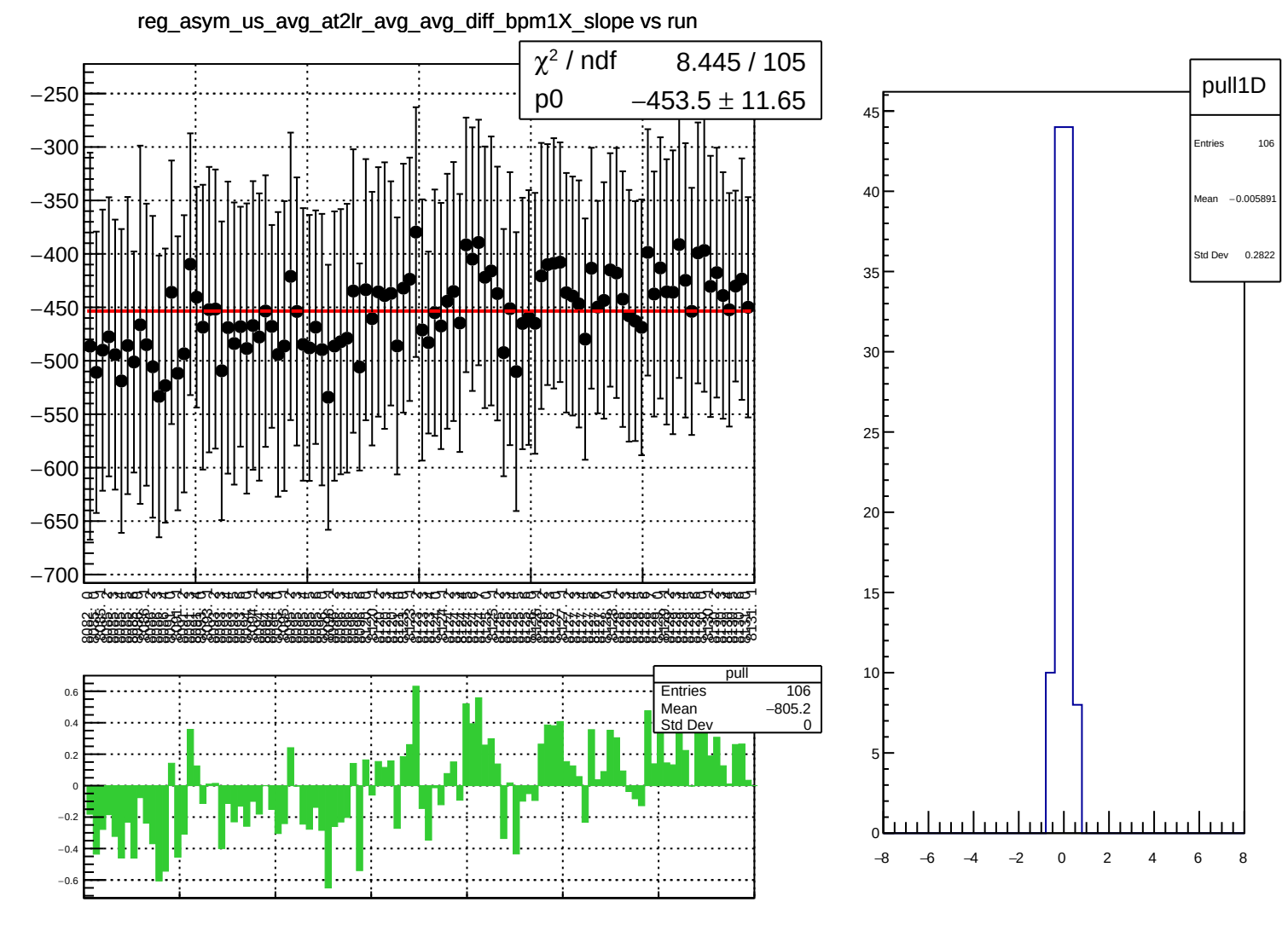

pull1D
Entries 106
Mean −0.003324
Std Dev 0.5803
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

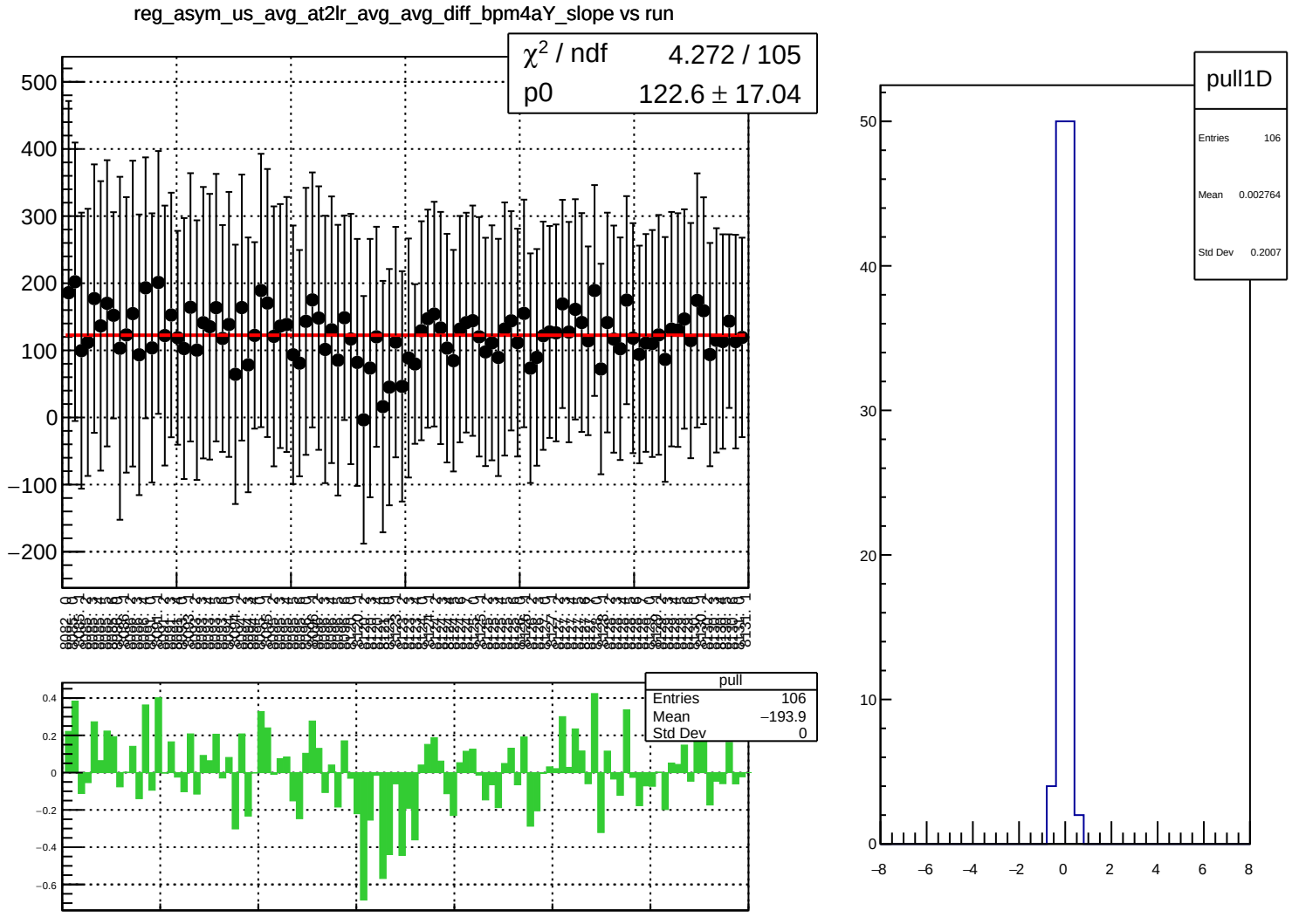

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 49.7 / 105
p0 92.82 ± 2.782
pull
Entries 106
Mean 333.4
Std Dev 0
pull1D
Entries 106
Mean 0.0386
Std Dev 0.6836

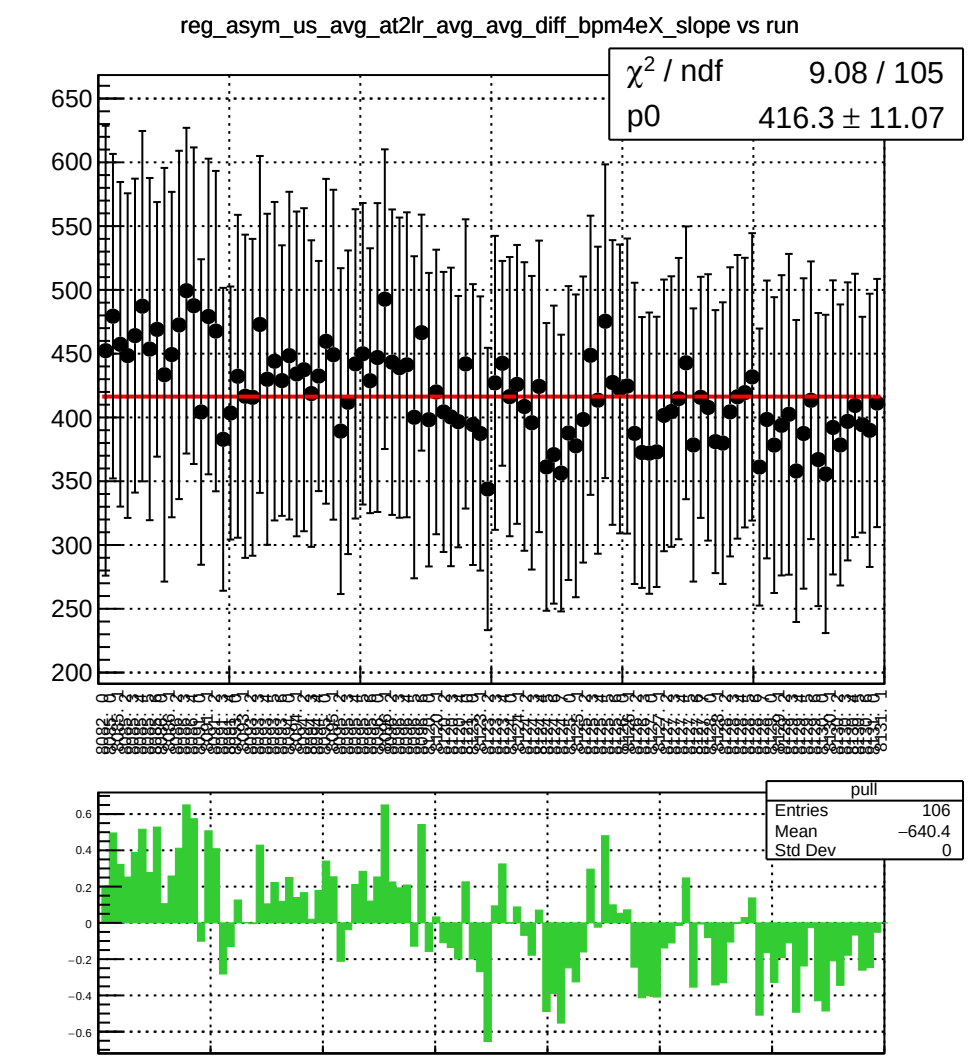

reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 34.44 / 105
p0 0.8707 ± 4.612
100
50
0
−50
−100
−150
pull
Entries 106
Mean −54.18
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

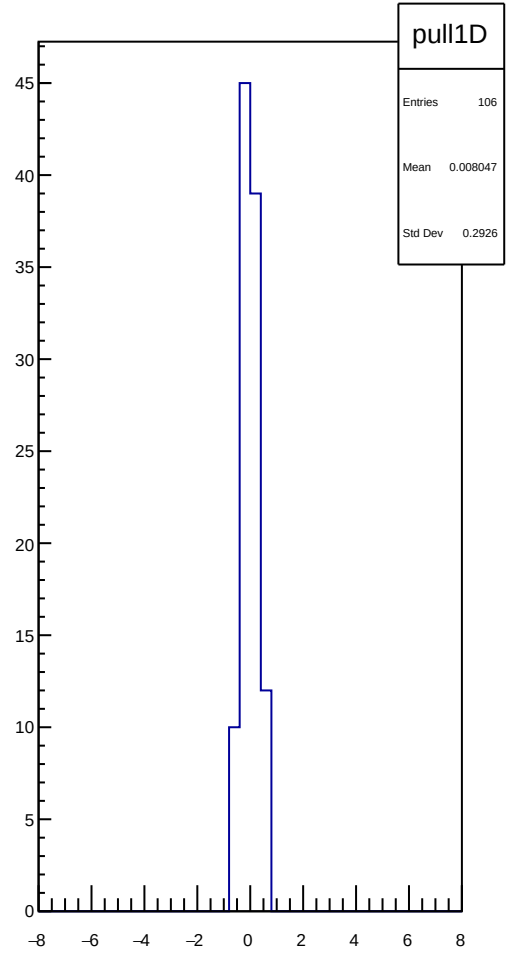

pull1D
Entries 106
Mean 0.009369
Std Dev 0.5699
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

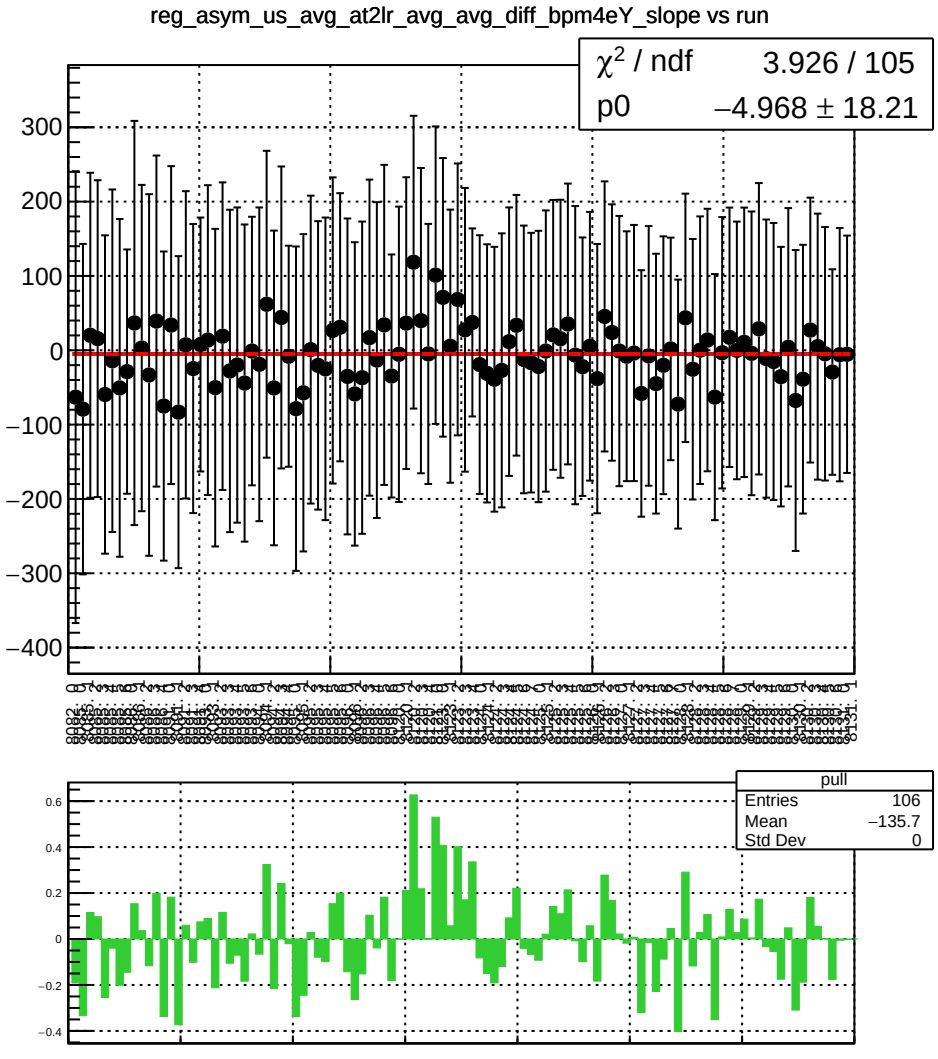

reg_asym_us_avg_at1lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 3425 / 105
p0 −50.75 ± 0.1766
pull
Entries 106
Mean 441.1
Std Dev 0
pull1D
Entries 106
Mean −2.219
Std Dev 3.358

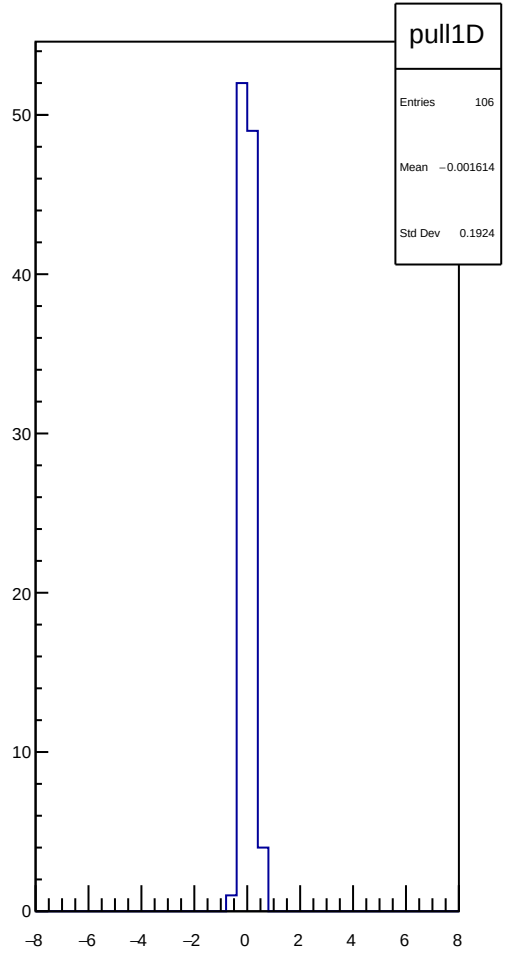

reg_asym_us_avg_at2lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 8.445 / 105
p0 −453.5 ± 11.65
−250
−300
−350
−400
−450
−500
−550
−600
−650
−700
pull
Entries 106
Mean −805.2
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 106
Mean −0.005891
Std Dev 0.2822
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

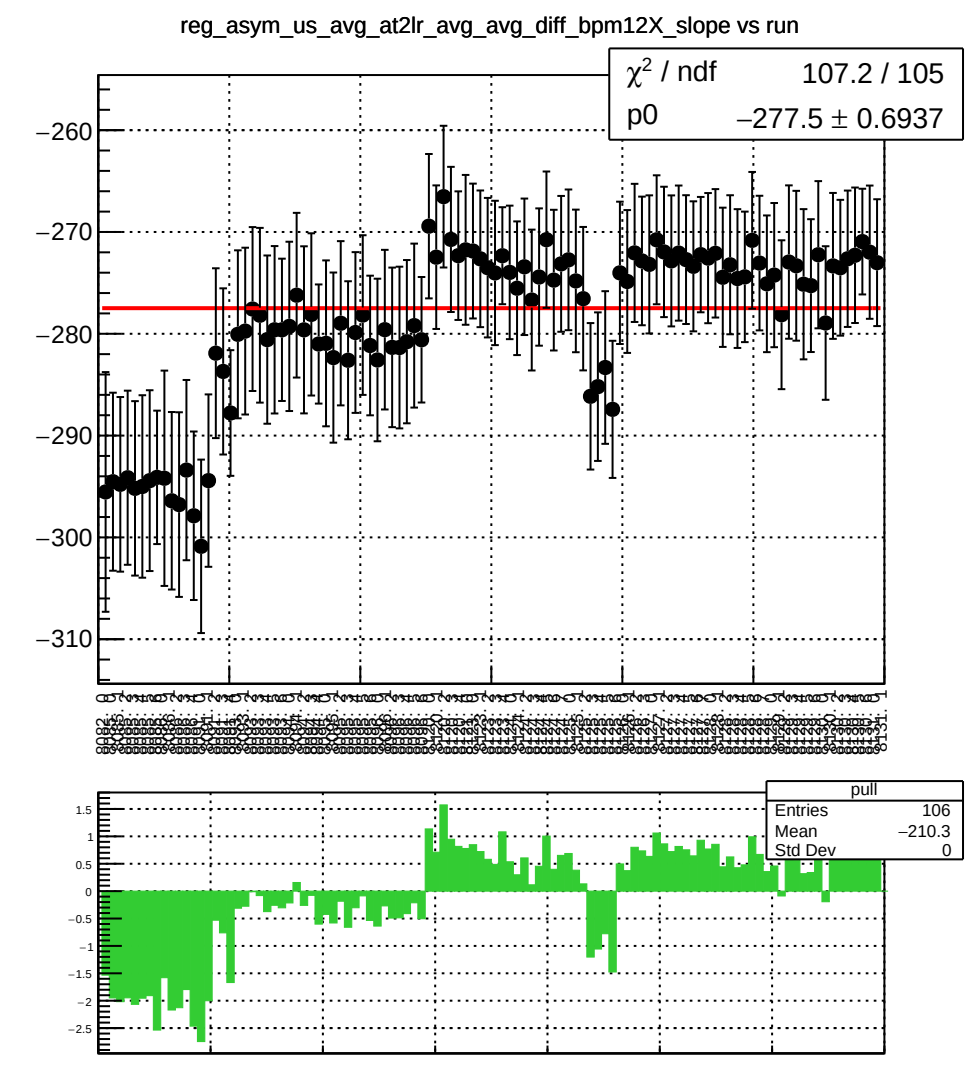

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 4.272 / 105
p0 122.6 ± 17.04
pull
Entries 106
Mean −193.9
Std Dev 0
pull1D
Entries 106
Mean 0.002764
Std Dev 0.2007

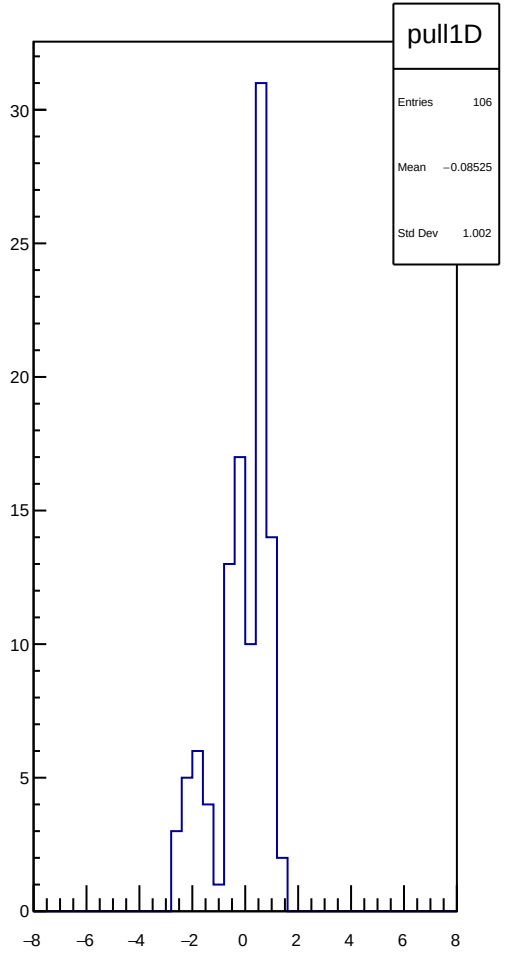

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.08 / 105
p0 416.3 ± 11.07
650
600
550
500
450
400
350
300
250
200
pull
Entries 106
Mean −640.4
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

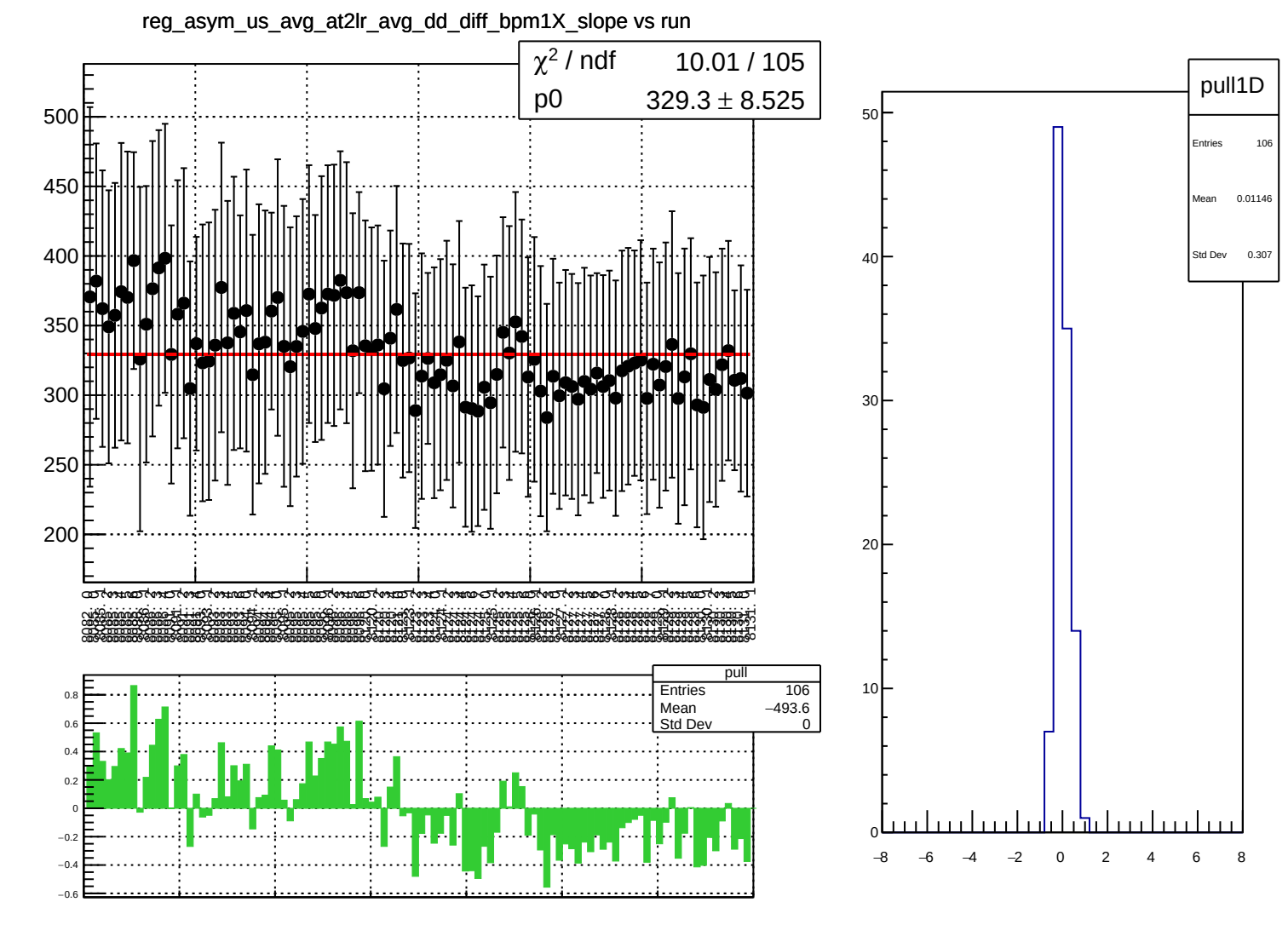

pull1D
Entries 106
Mean 0.008047
Std Dev 0.2926
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

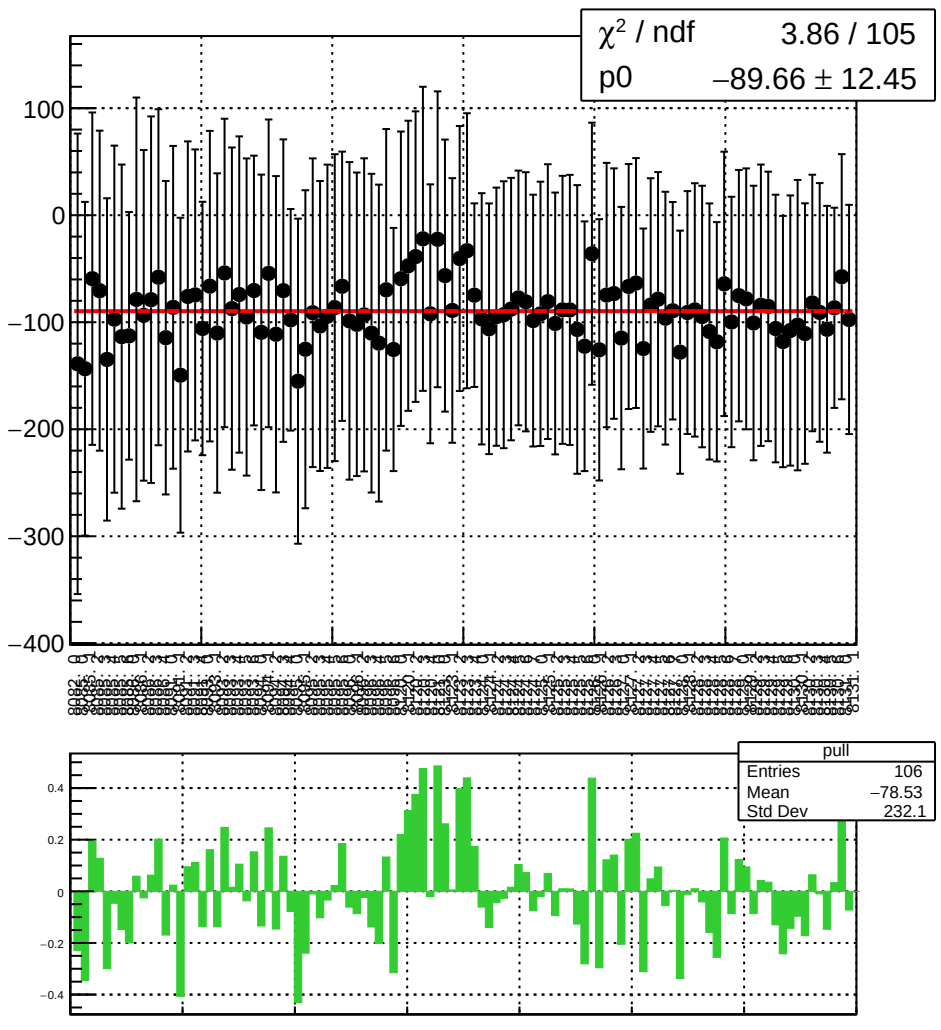

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 3.926 / 105
p0 −4.968 ± 18.21
300
200
100
0
−100
−200
−300
−400
pull
Entries 106
Mean −135.7
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4

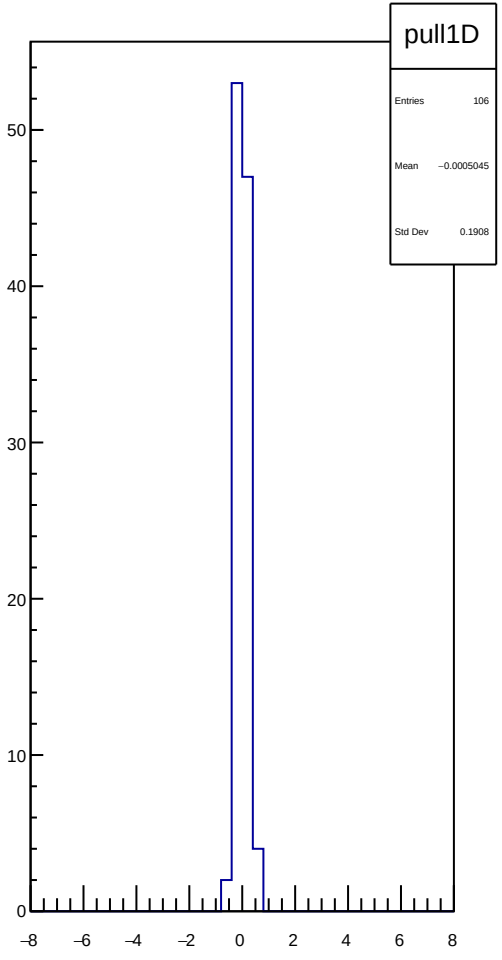

pull1D
Entries 106
Mean −0.001614
Std Dev 0.1924
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

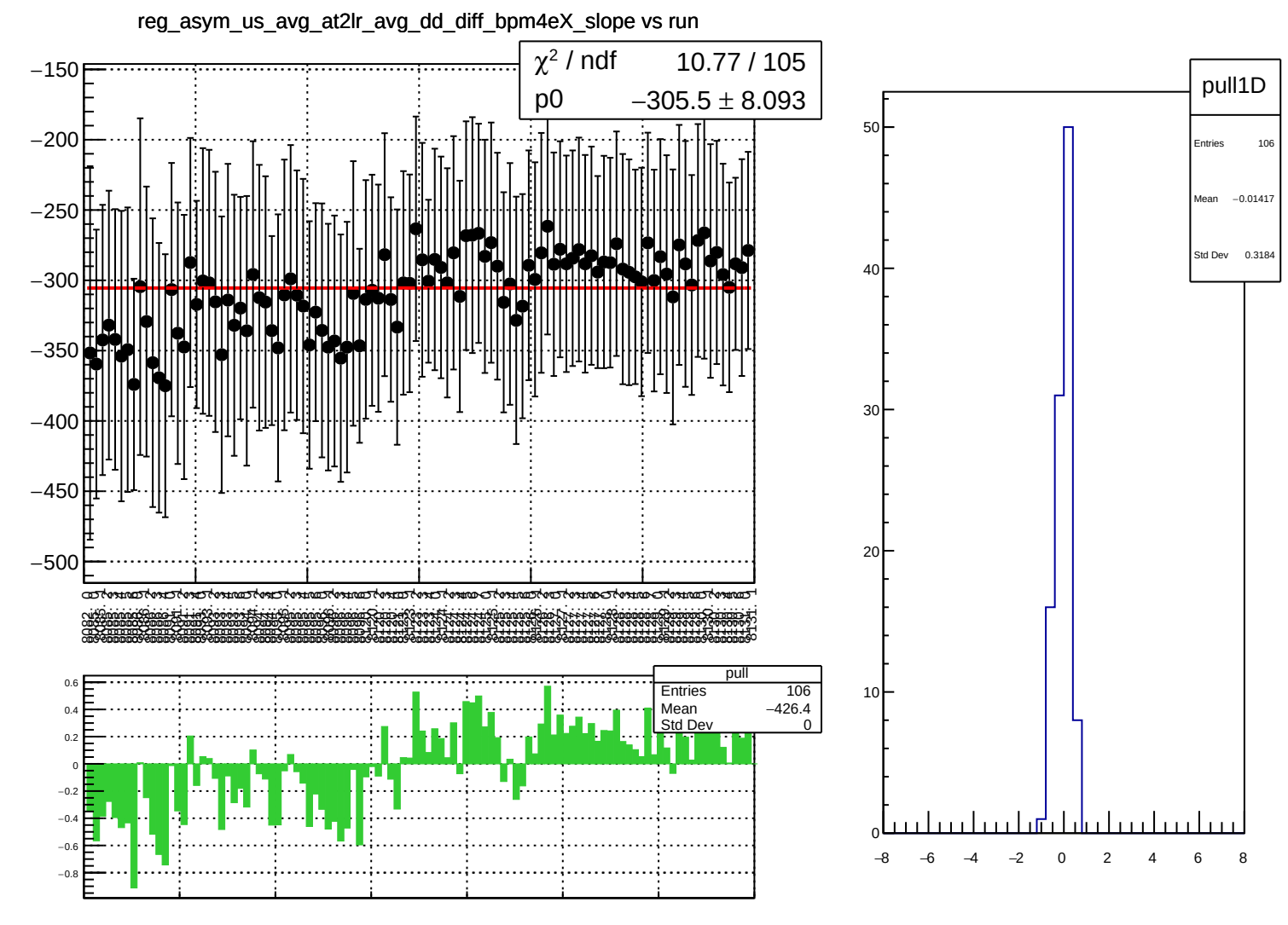

reg_asym_us_avg_at2lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 107.2 / 105
p0 −277.5 ± 0.6937
−260
−270
−280
−290
−300
−310
pull
Entries 106
Mean −210.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

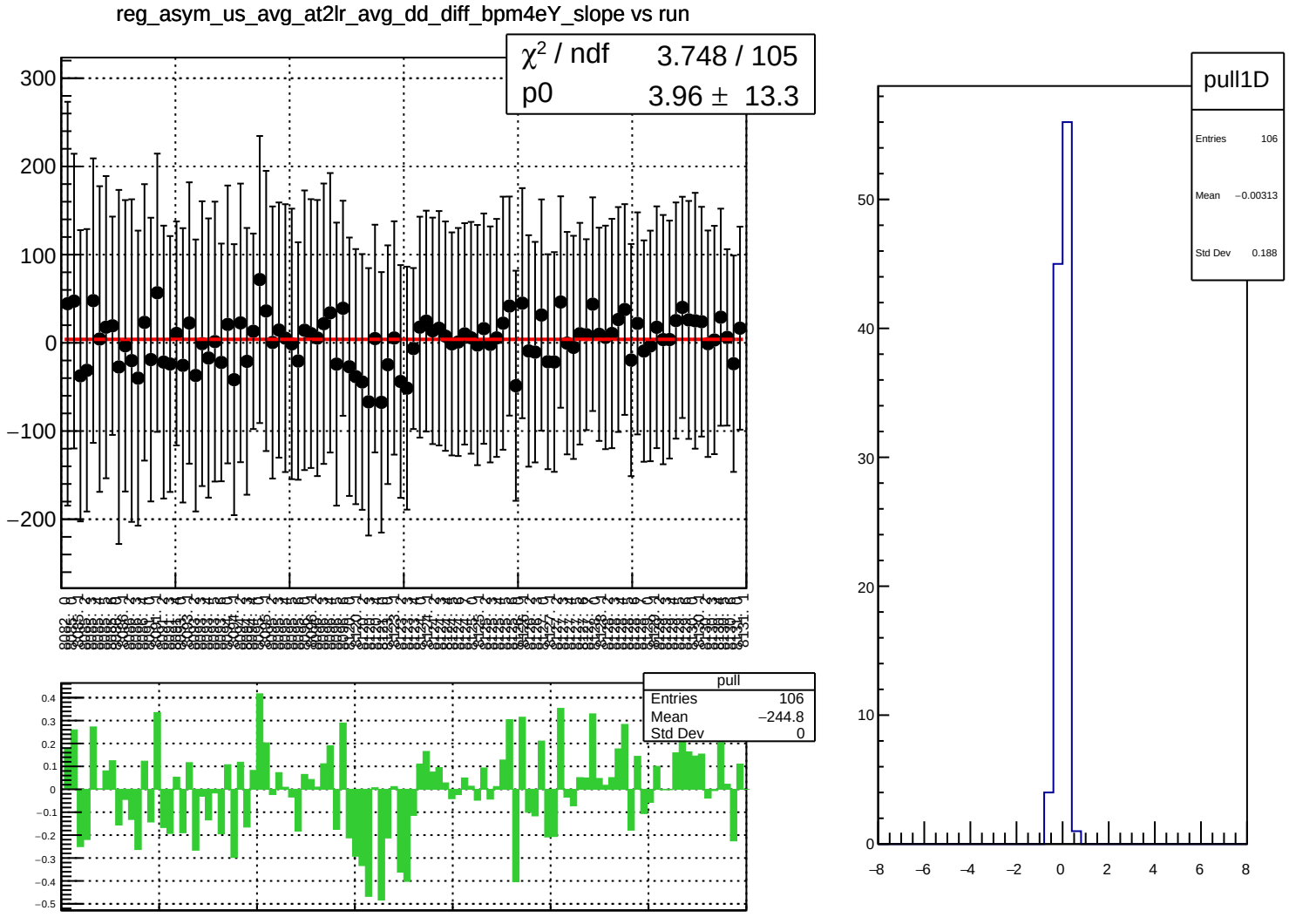

pull1D
Entries 106
Mean −0.08525
Std Dev 1.002
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

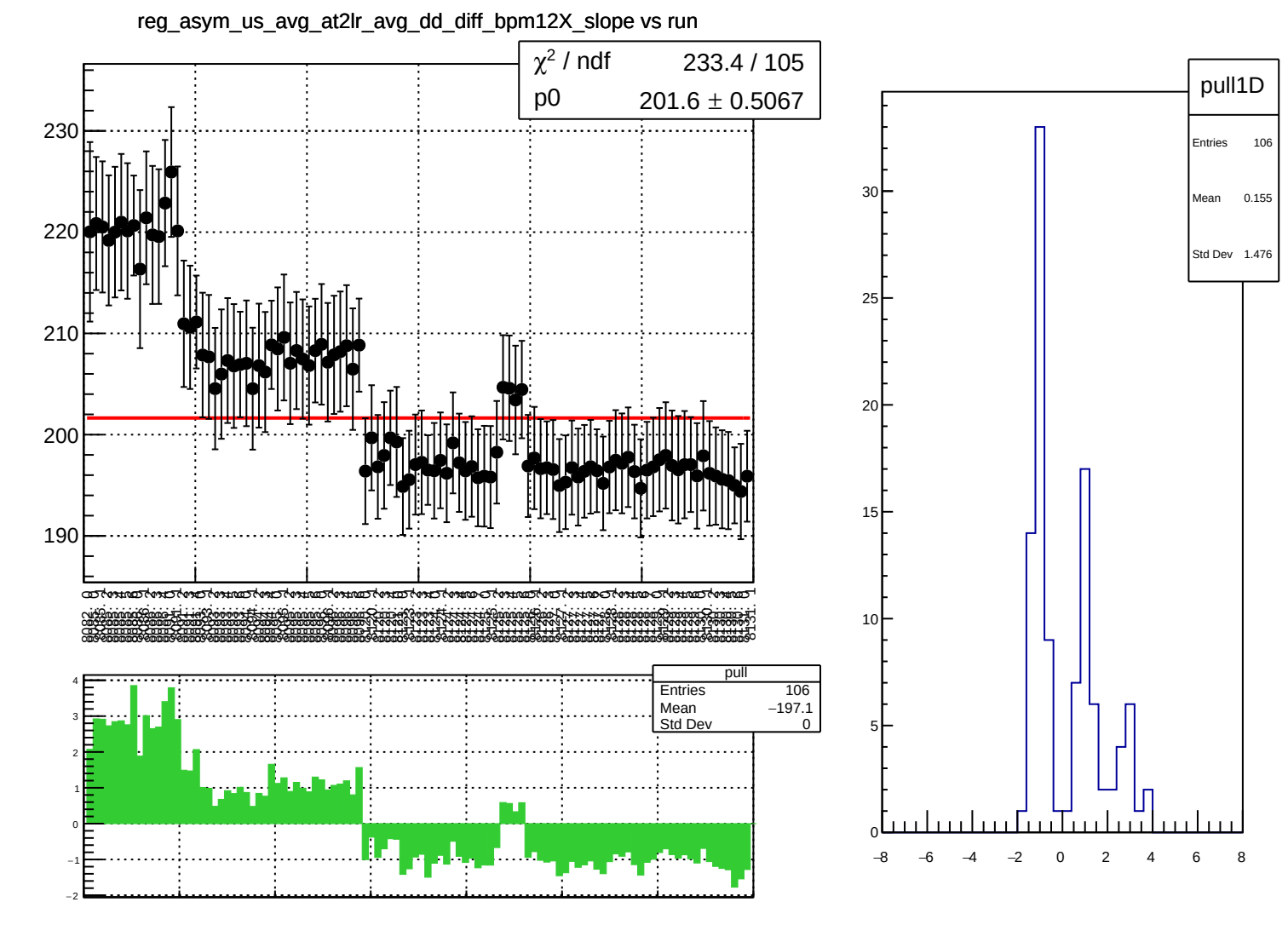

reg_asym_us_avg_at2lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 10.01 / 105
p0 329.3 ± 8.525
500
450
400
350
300
250
200
pull
Entries 106
Mean −493.6
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 106
Mean 0.01146
Std Dev 0.307
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

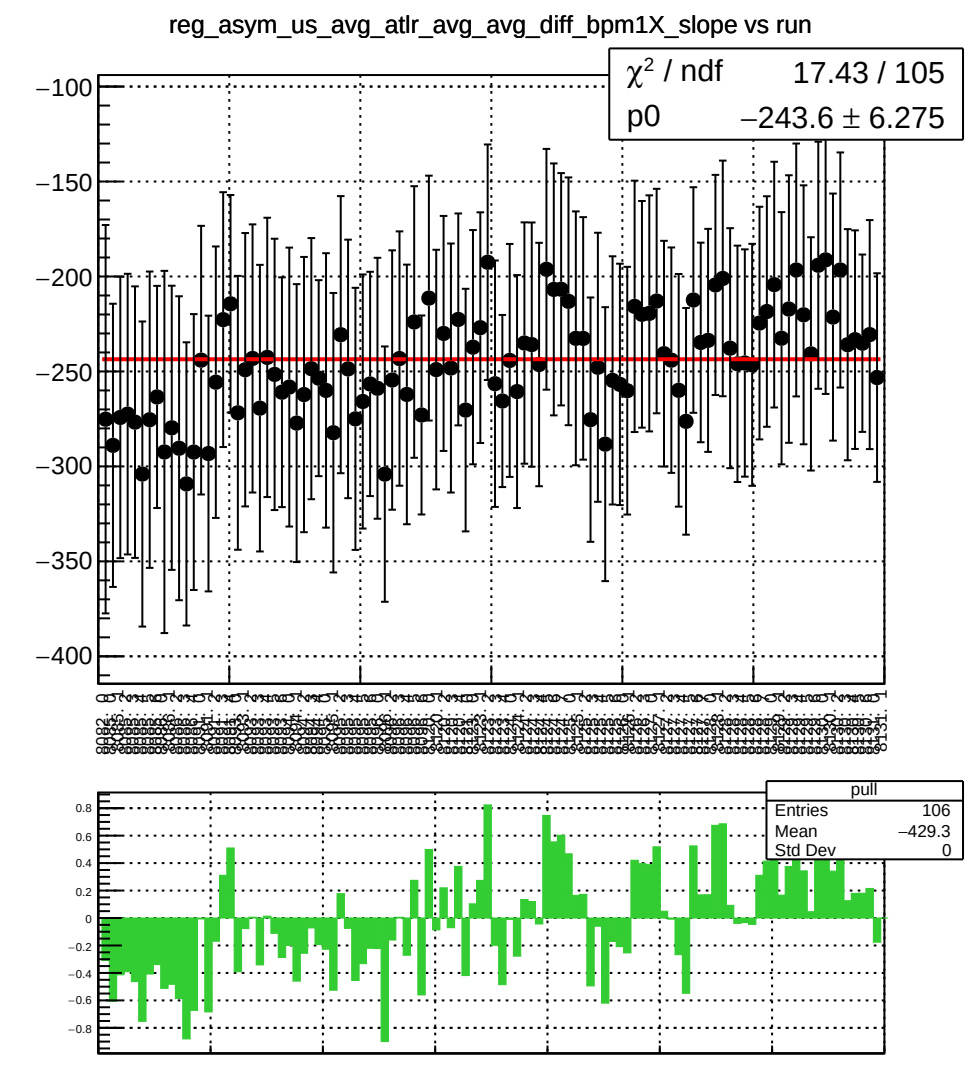

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 3.86 / 105
p0 −89.66 ± 12.45
100
0
−100
−200
−300
−400
pull
Entries 106
Mean −78.53
Std Dev 232.1
0.4
0.2
0
−0.2
−0.4

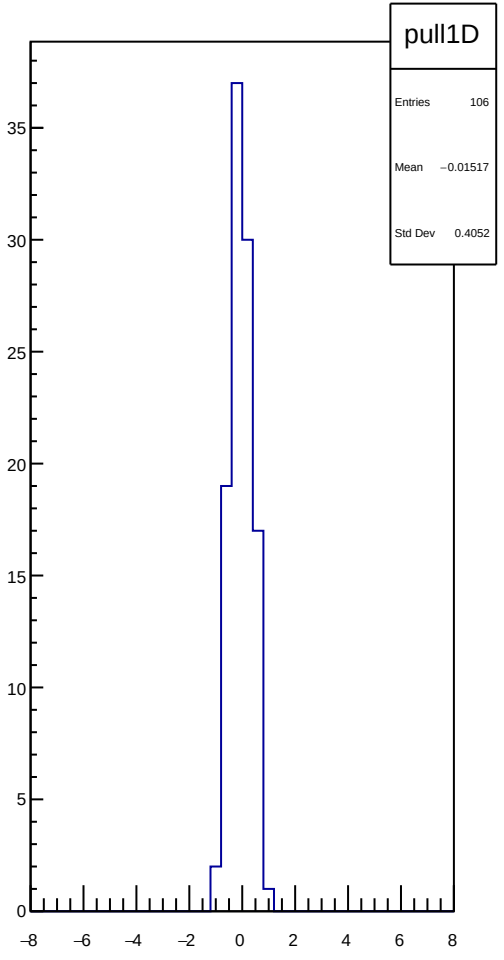

pull1D
Entries 106
Mean −0.0005045
Std Dev 0.1908
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

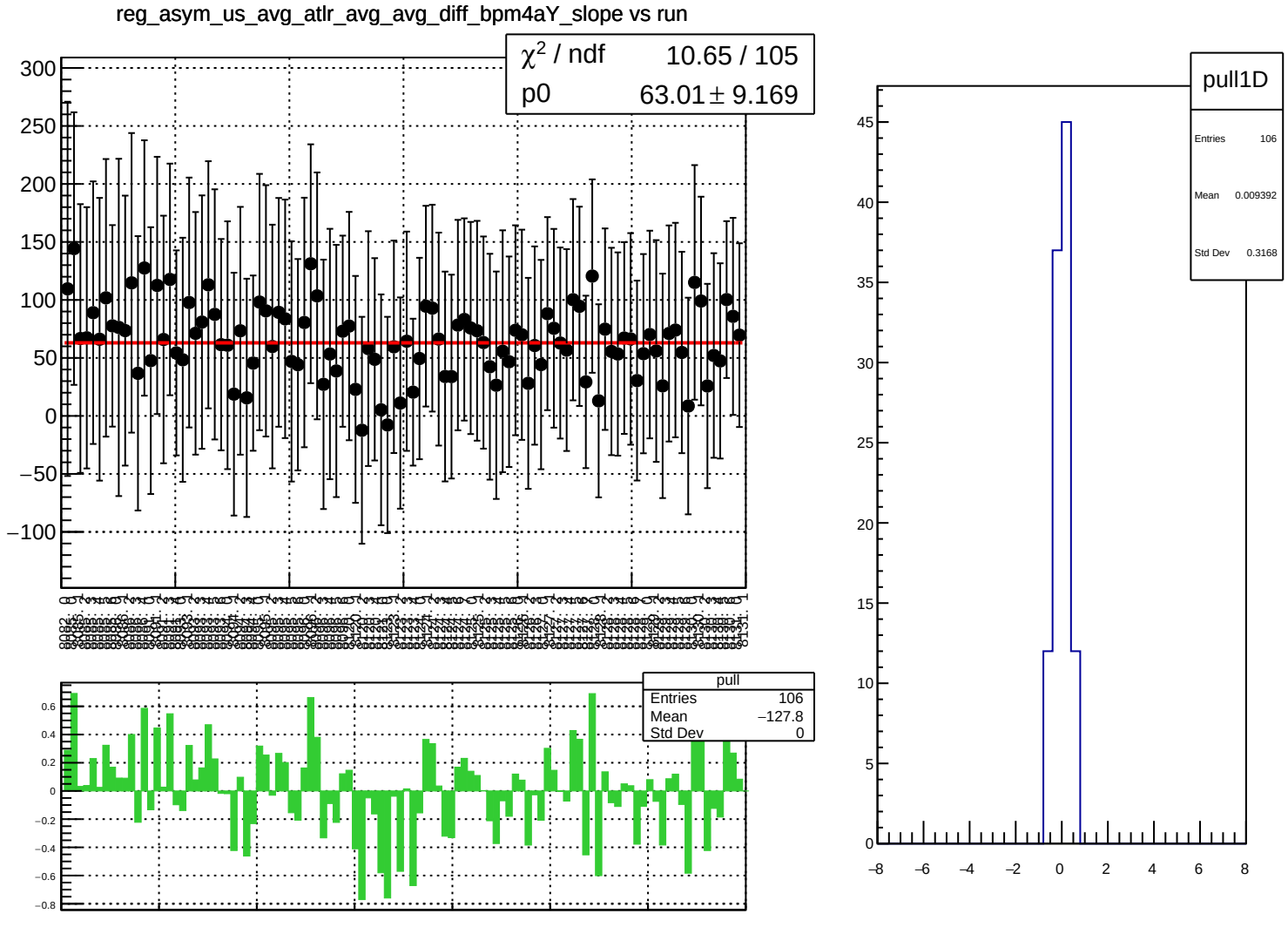

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 10.77 / 105
p0 −305.5 ± 8.093
pull
Entries 106
Mean −426.4
Std Dev 0
pull1D
Entries 106
Mean −0.01417
Std Dev 0.3184

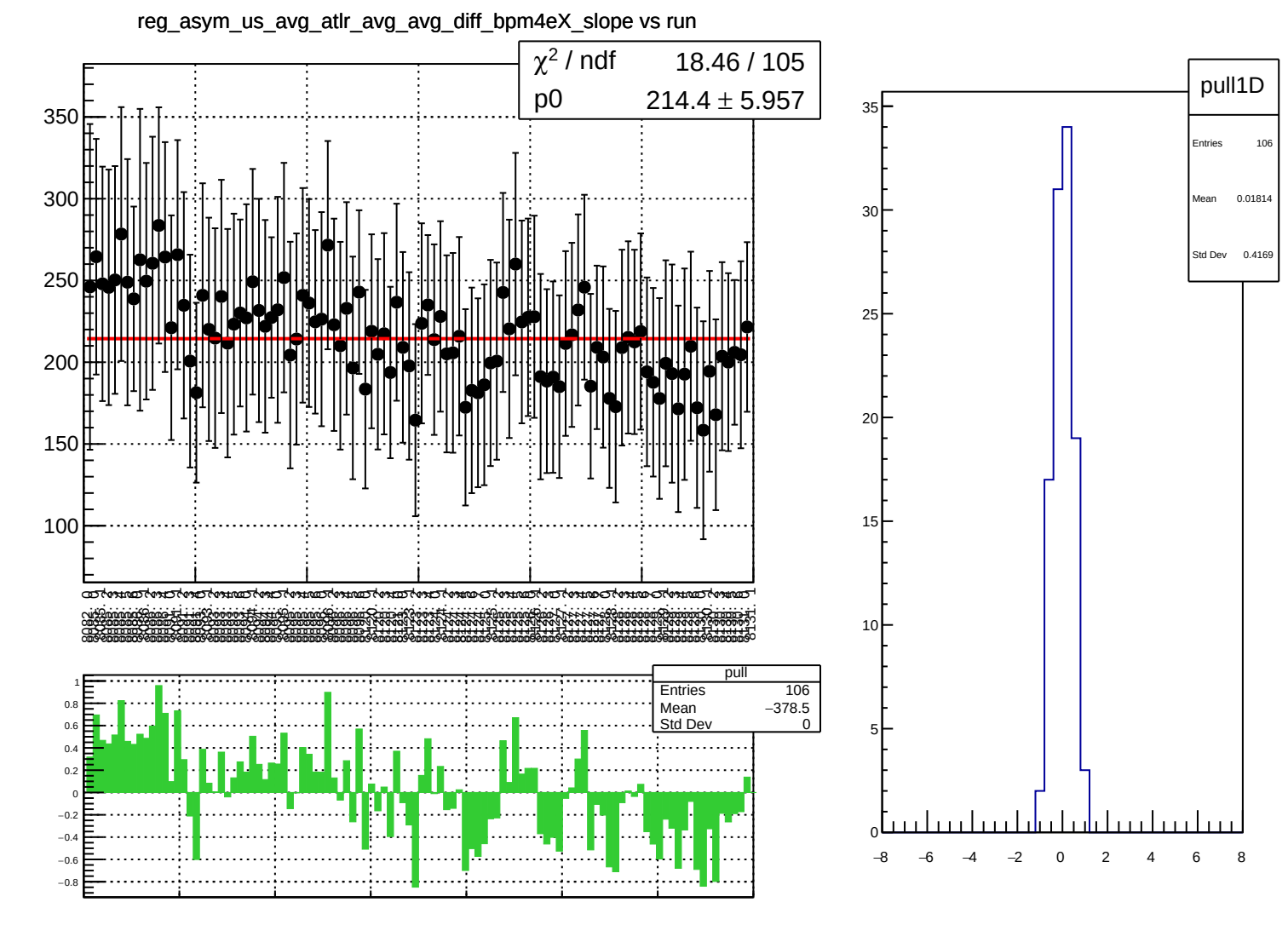

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 3.748 / 105
p0 3.96 ± 13.3
pull
Entries 106
Mean −244.8
Std Dev 0
pull1D
Entries 106
Mean −0.00313
Std Dev 0.188

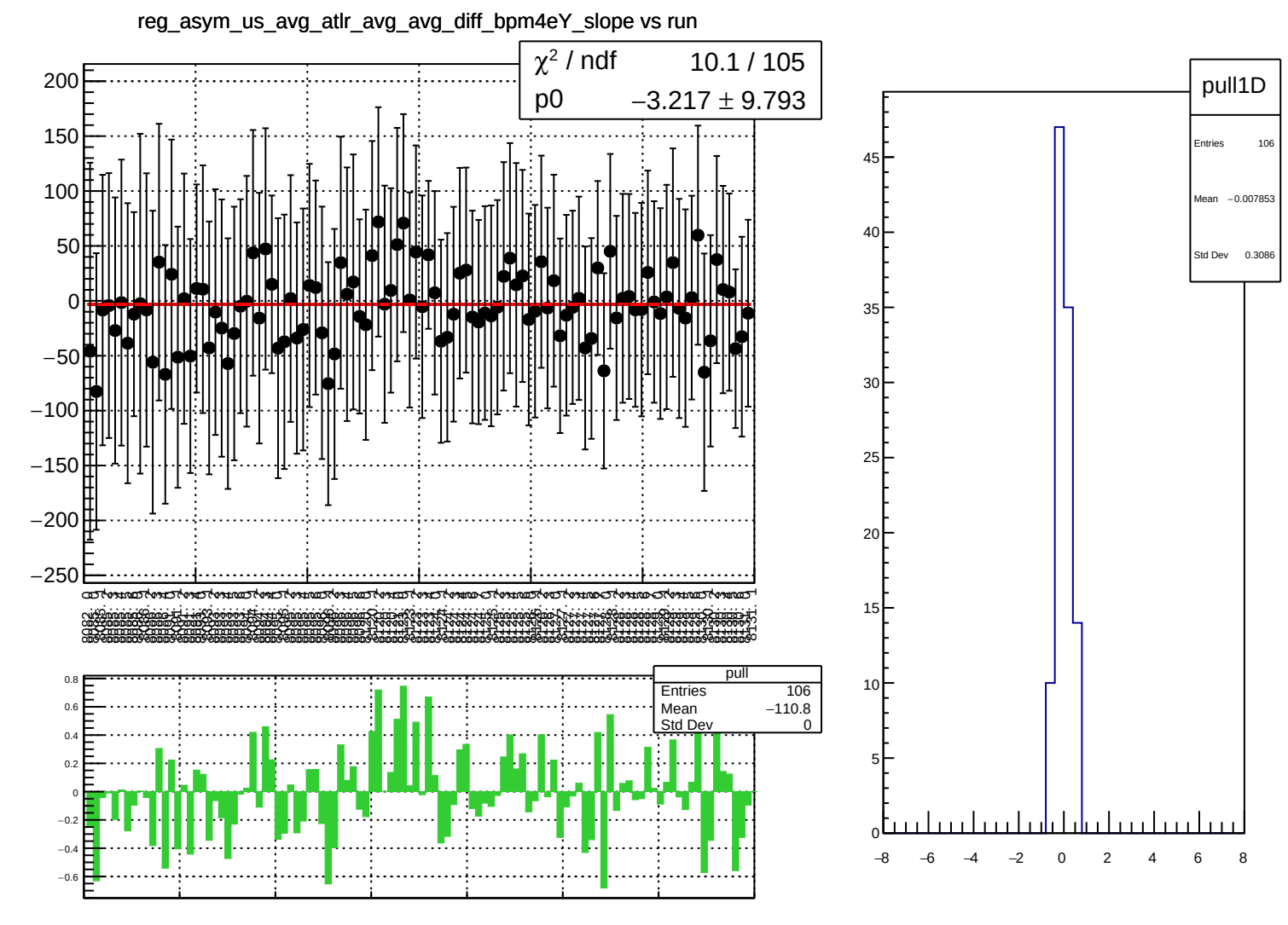

reg_asym_us_avg_at2lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 233.4 / 105
p0 201.6 ± 0.5067
230
220
210
200
190
pull
Entries 106
Mean −197.1
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 106
Mean 0.155
Std Dev 1.476
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

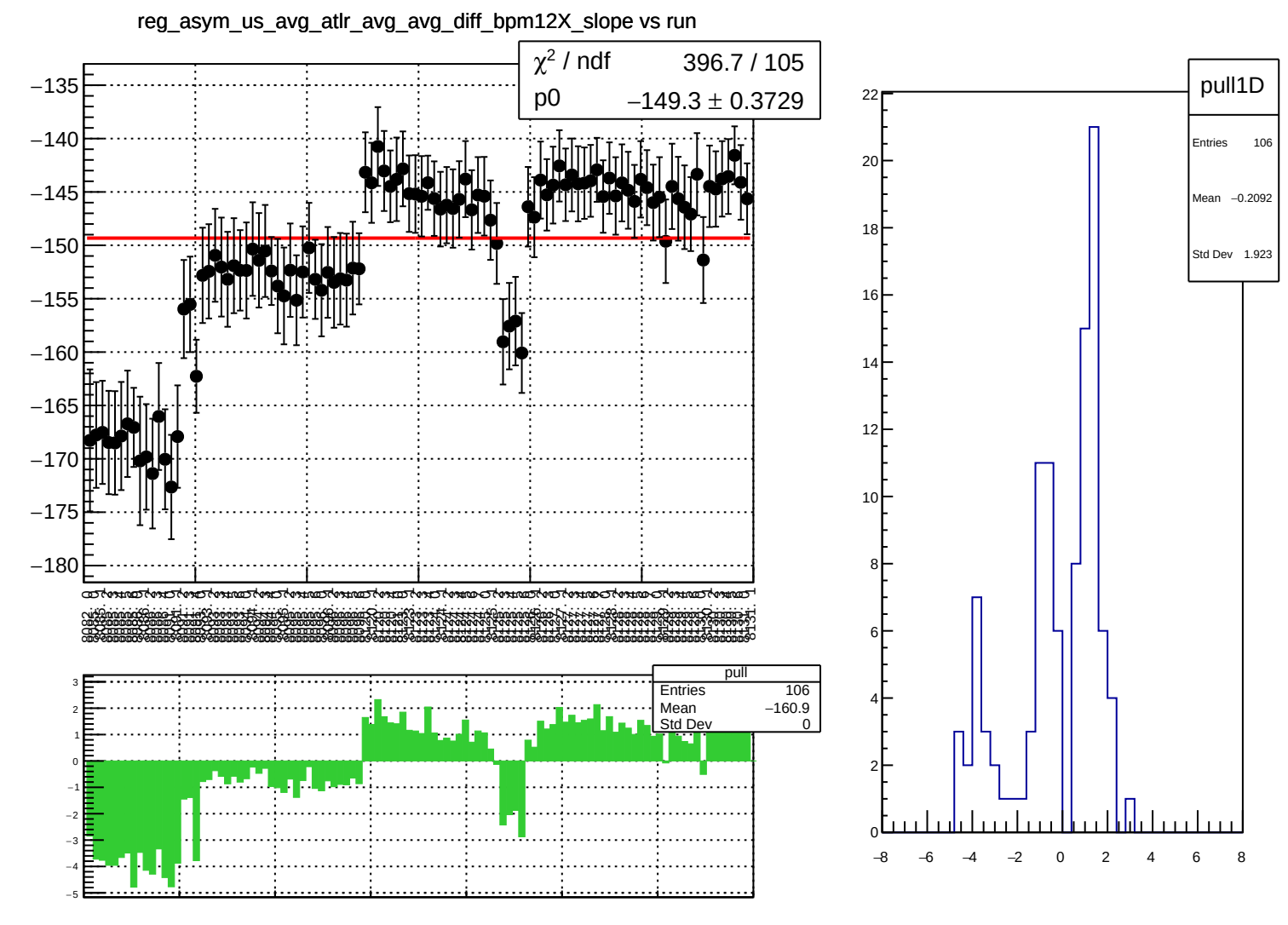

reg_asym_us_avg_atlr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 17.43 / 105
p0 −243.6 ± 6.275
pull
Entries 106
Mean −429.3
Std Dev 0

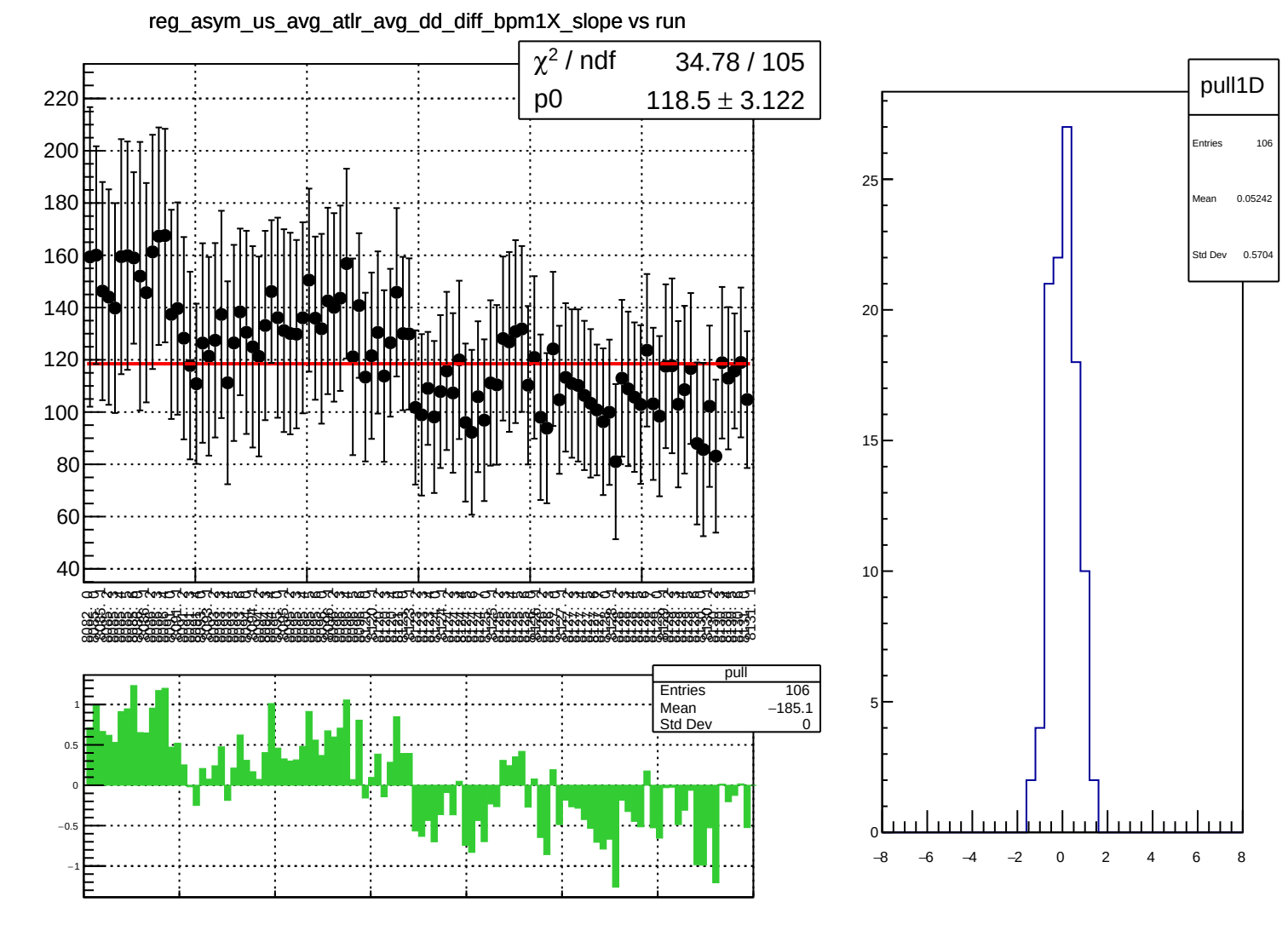

pull1D
Entries 106
Mean −0.01517
Std Dev 0.4052

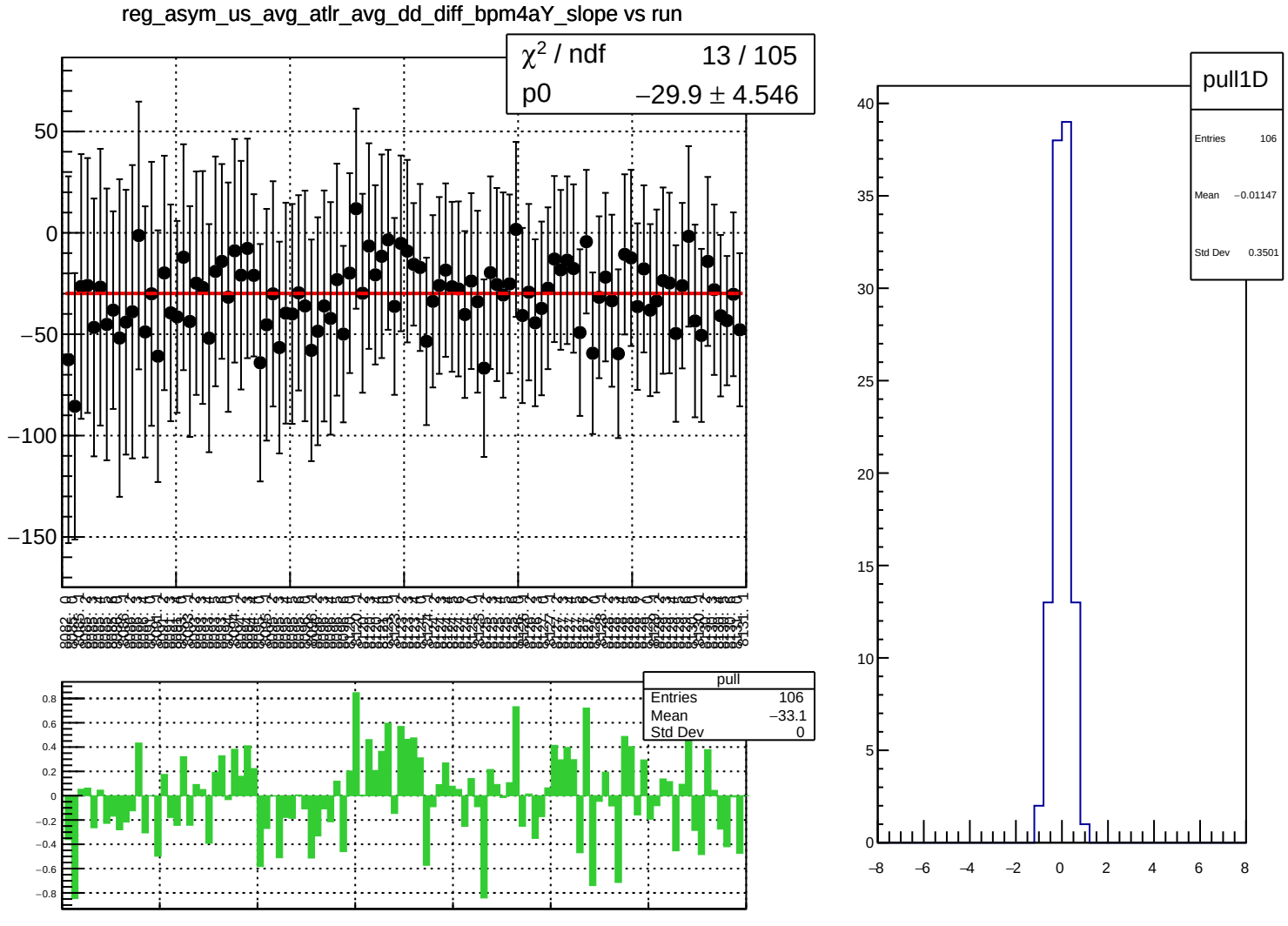

reg_asym_us_avg_atlr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 10.65 / 105
p0 63.01 ± 9.169
pull
Entries 106
Mean −127.8
Std Dev 0
pull1D
Entries 106
Mean 0.009392
Std Dev 0.3168

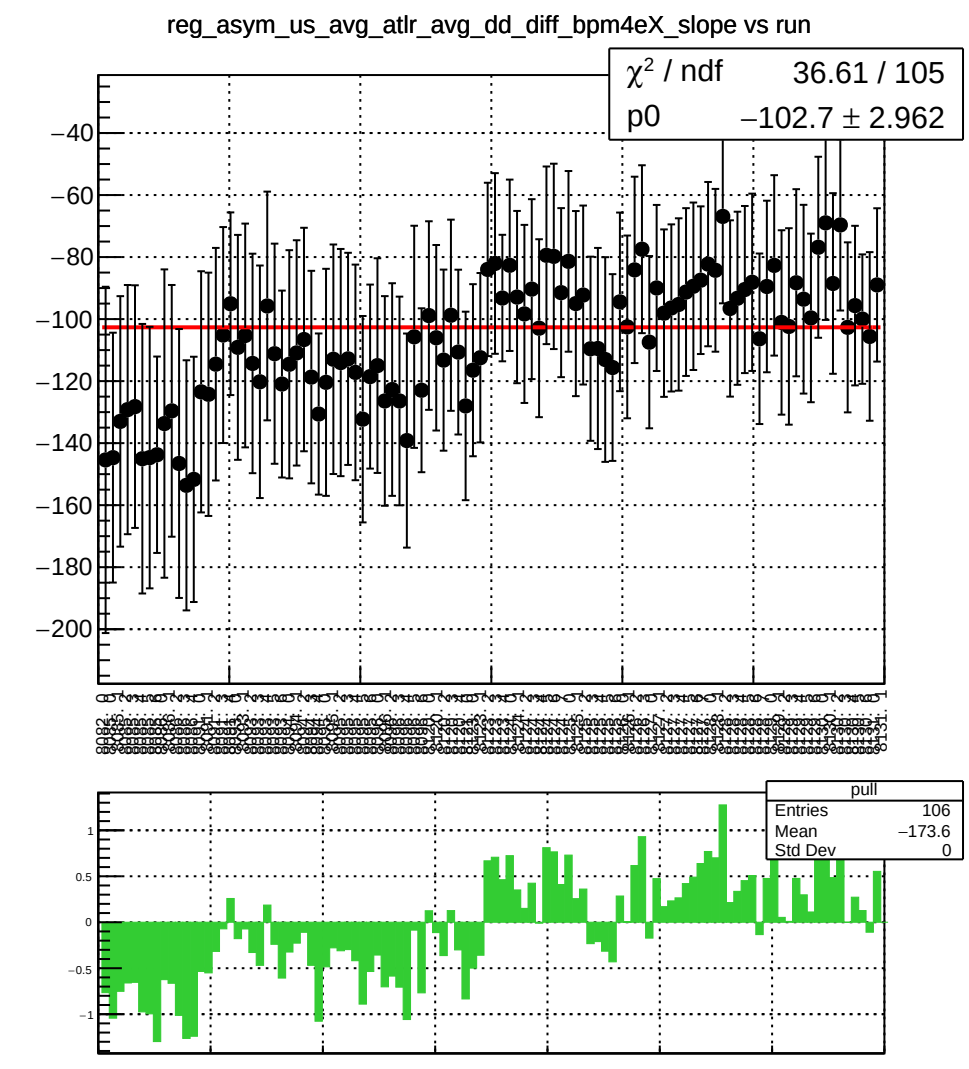

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 18.46 / 105
p0 214.4 ± 5.957
350
300
250
200
150
100
pull
Entries 106
Mean −378.5
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 106
Mean 0.01814
Std Dev 0.4169
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

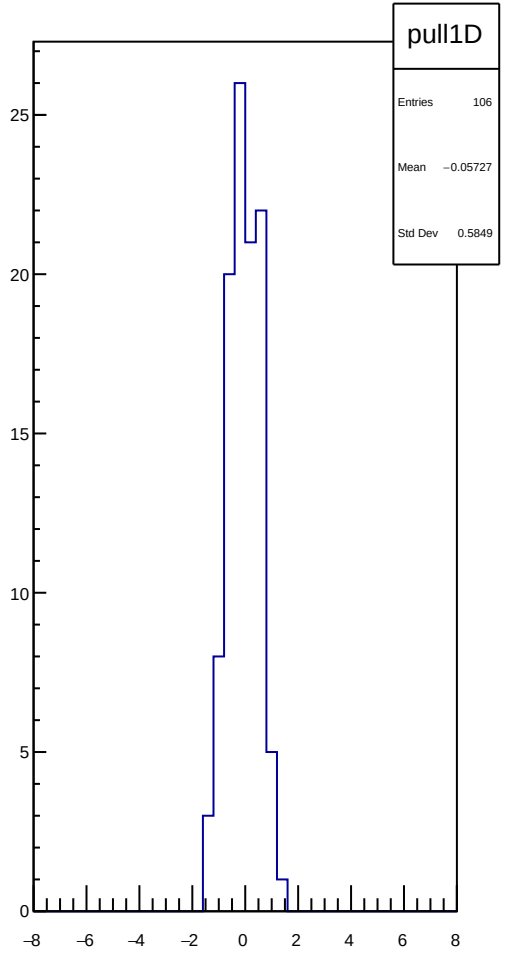

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 10.1 / 105
p0 −3.217 ± 9.793
pull
Entries 106
Mean −110.8
Std Dev 0
pull1D
Entries 106
Mean −0.007853
Std Dev 0.3086

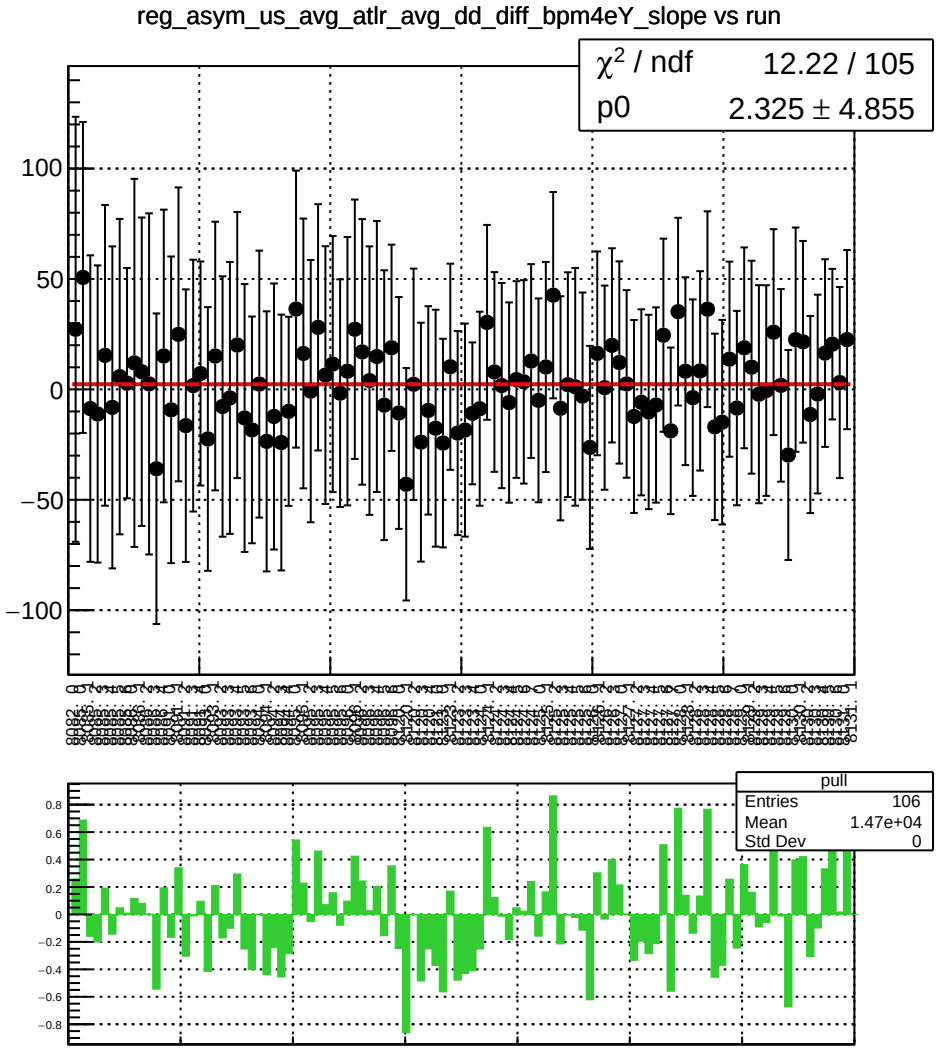

reg_asym_us_avg_atlr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 396.7 / 105
p0 −149.3 ± 0.3729
pull
Entries 106
Mean −160.9
Std Dev 0
pull1D
Entries 106
Mean −0.2092
Std Dev 1.923

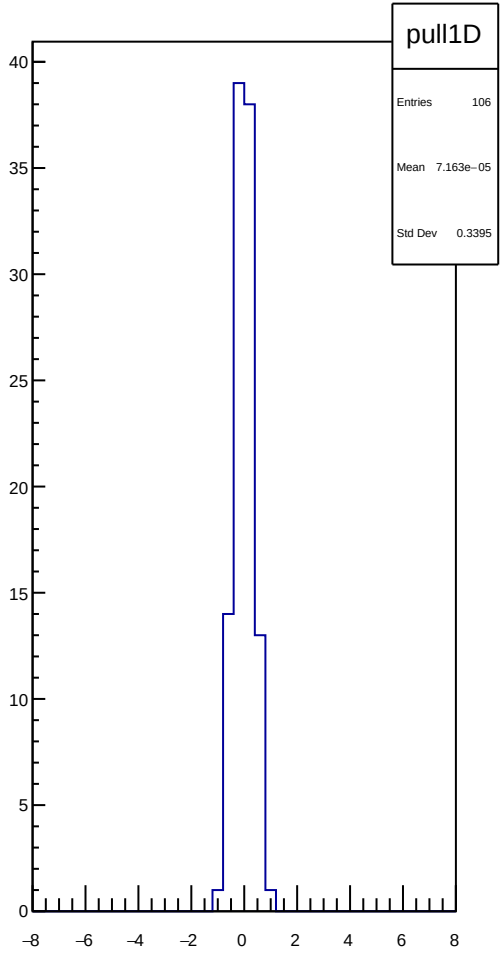

reg_asym_us_avg_atlr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 34.78 / 105
p0 118.5 ± 3.122
pull
Entries 106
Mean −185.1
Std Dev 0
pull1D
Entries 106
Mean 0.05242
Std Dev 0.5704

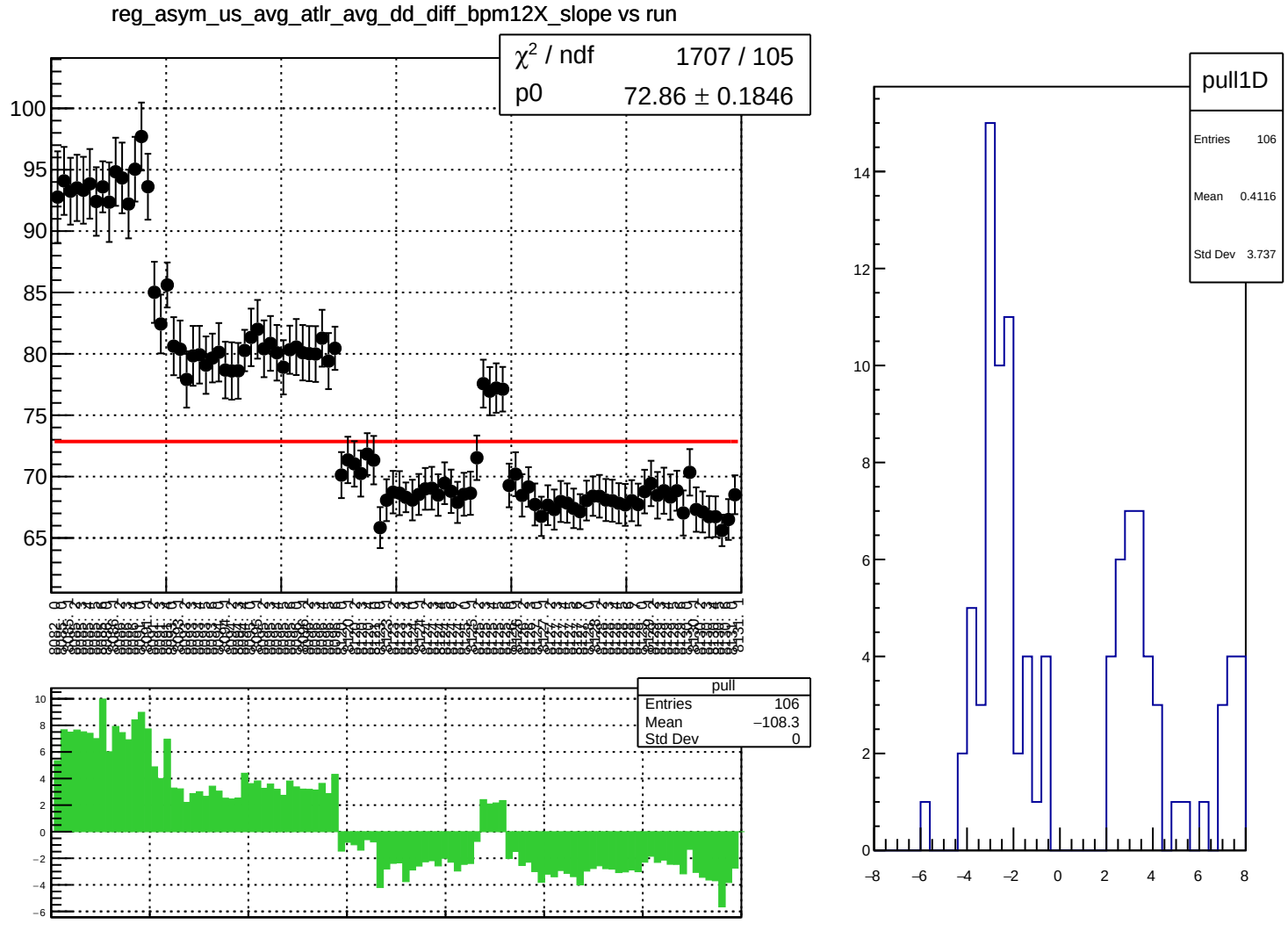

reg_asym_us_avg_atlr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 13 / 105
p0 −29.9 ± 4.546
50
0
−50
−100
−150
pull
Entries 106
Mean −33.1
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 106
Mean −0.01147
Std Dev 0.3501
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

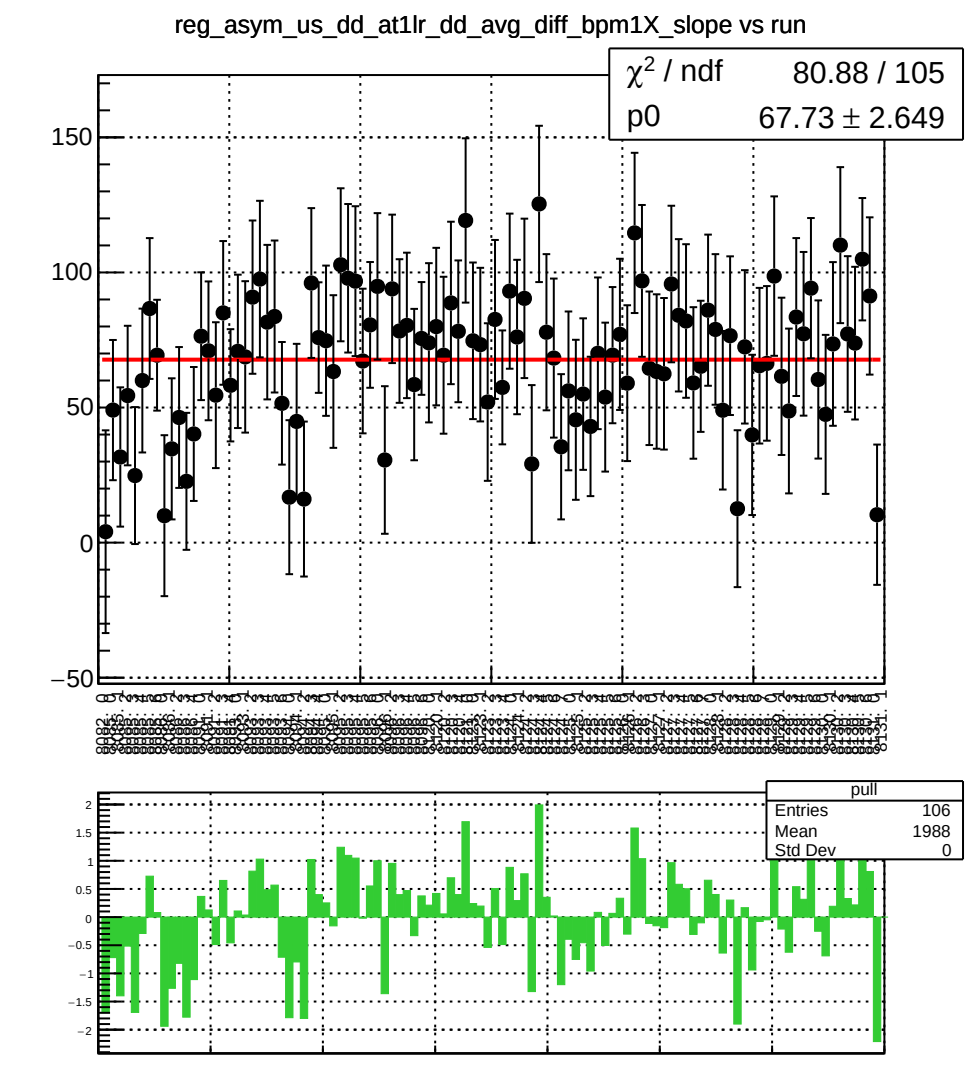

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 36.61 / 105
p0 −102.7 ± 2.962
−40
−60
−80
−100
−120
−140
−160
−180
−200
pull
Entries 106
Mean −173.6
Std Dev 0
1
0.5
0
−0.5
−1

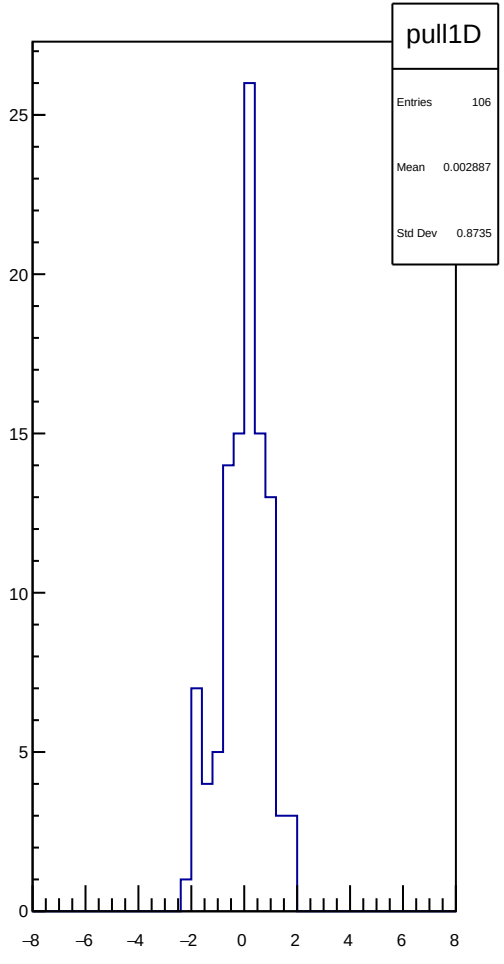

pull1D
Entries 106
Mean −0.05727
Std Dev 0.5849
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

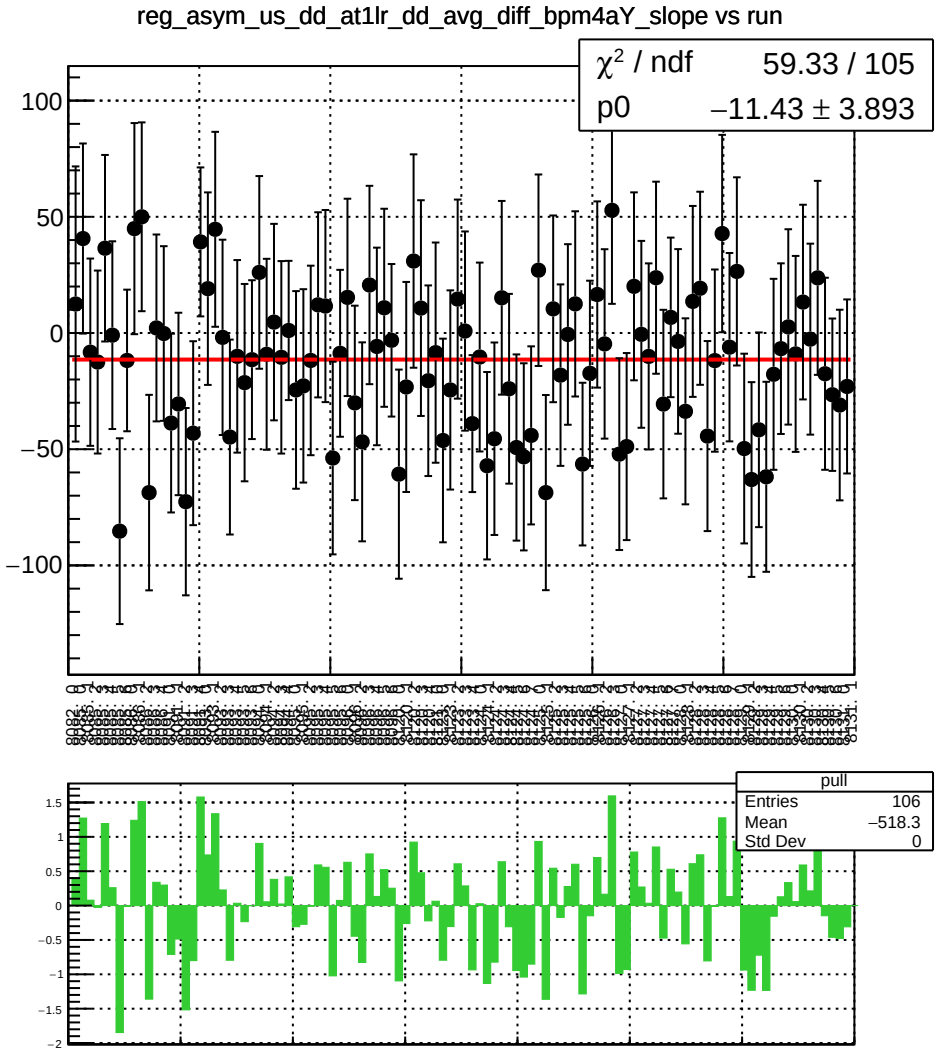

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 12.22 / 105
p0 2.325 ± 4.855
100
50
0
−50
−100
pull
Entries 106
Mean 1.47e+04
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

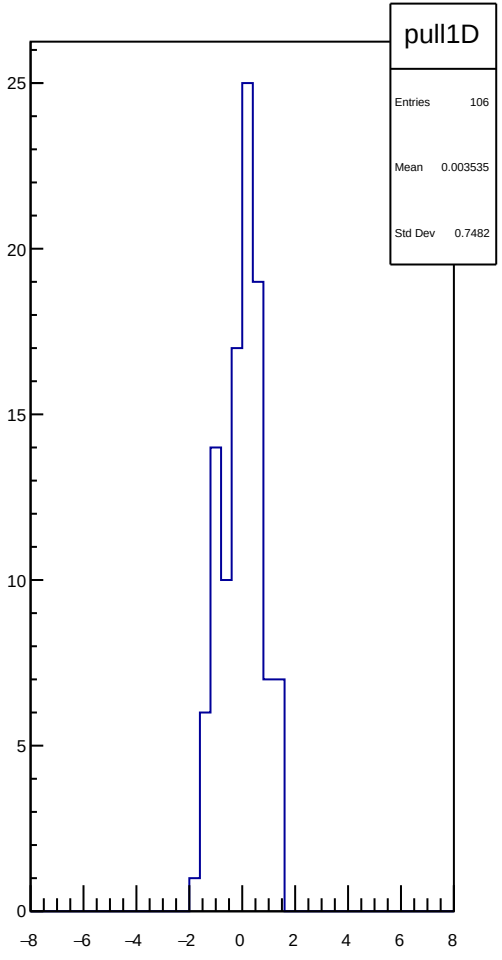

pull1D
Entries 106
Mean 7.163e−05
Std Dev 0.3395
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

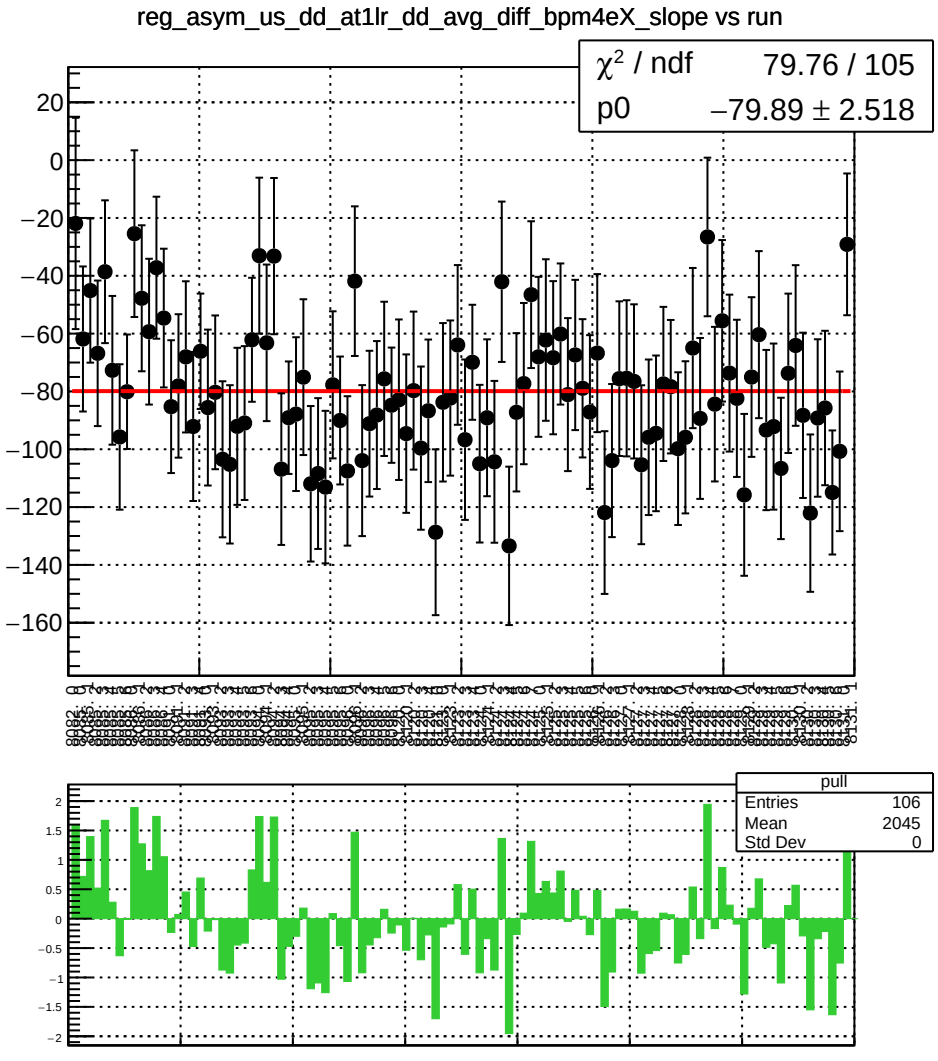

reg_asym_us_avg_atlr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 1707 / 105
p0 72.86 ± 0.1846
pull
Entries 106
Mean −108.3
Std Dev 0
pull1D
Entries 106
Mean 0.4116
Std Dev 3.737

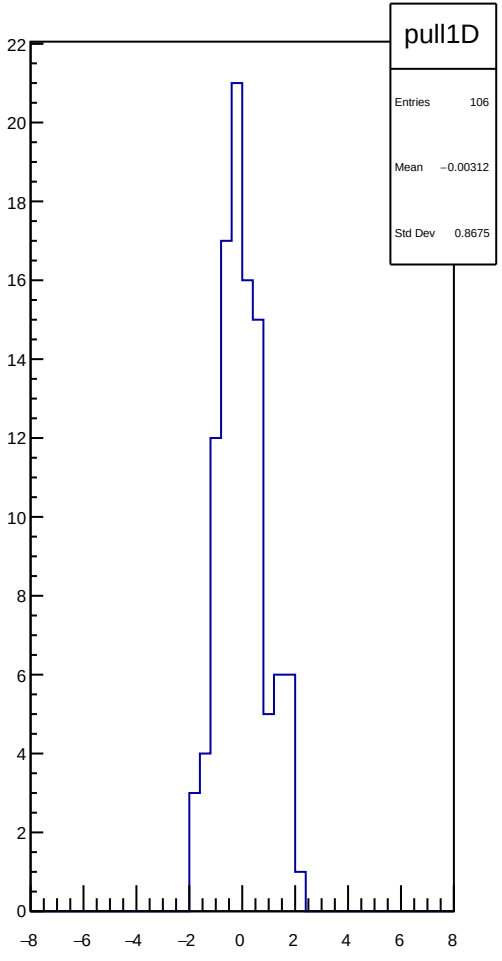

reg_asym_us_dd_at1lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 80.88 / 105
p0 67.73 ± 2.649
150
100
50
0
−50
pull
Entries 106
Mean 1988
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

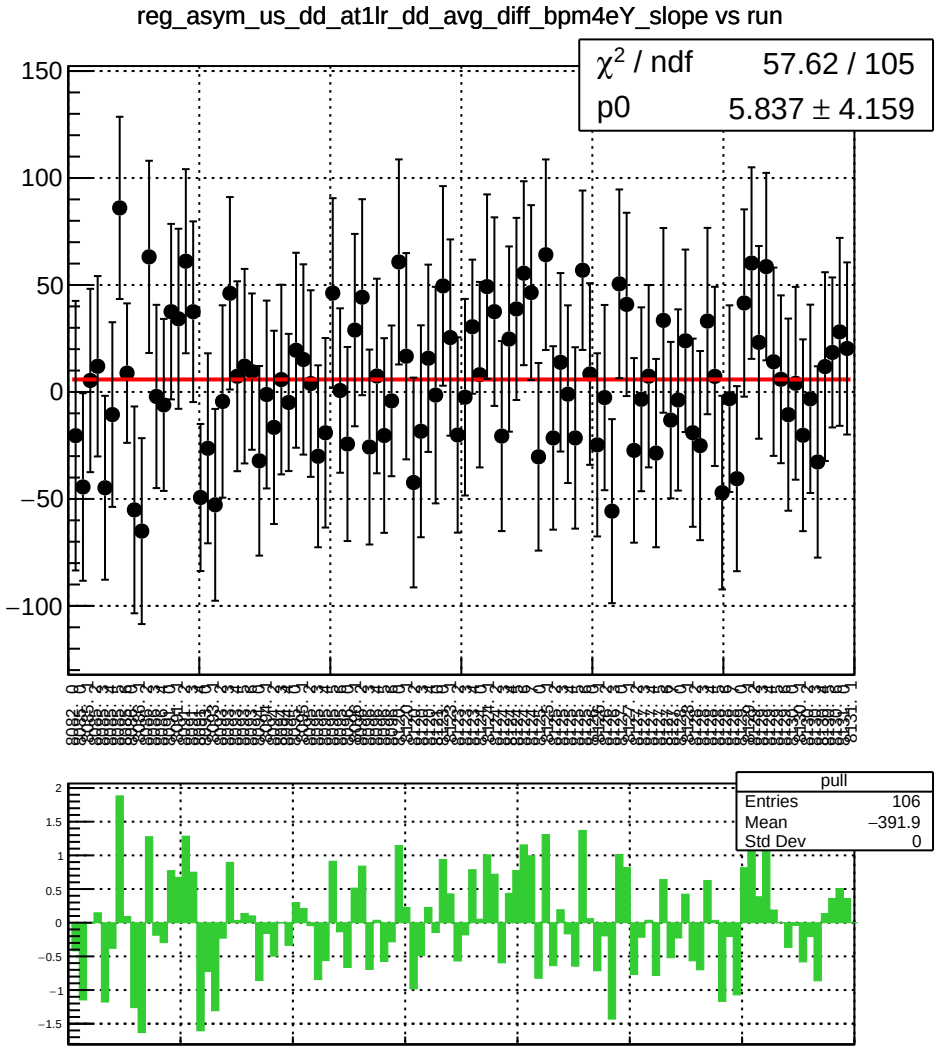

pull1D
Entries 106
Mean 0.002887
Std Dev 0.8735
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

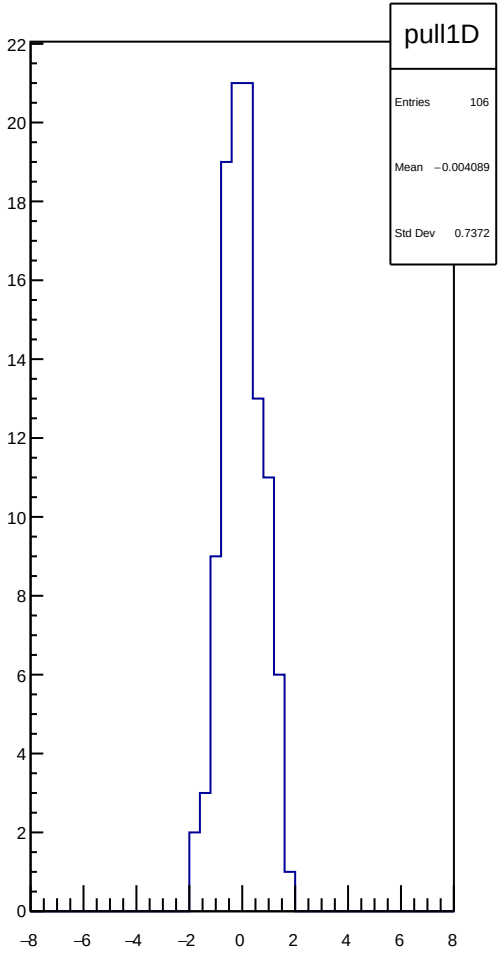

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 59.33 / 105
p0 −11.43 ± 3.893
100
50
0
−50
−100
pull
Entries 106
Mean −518.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

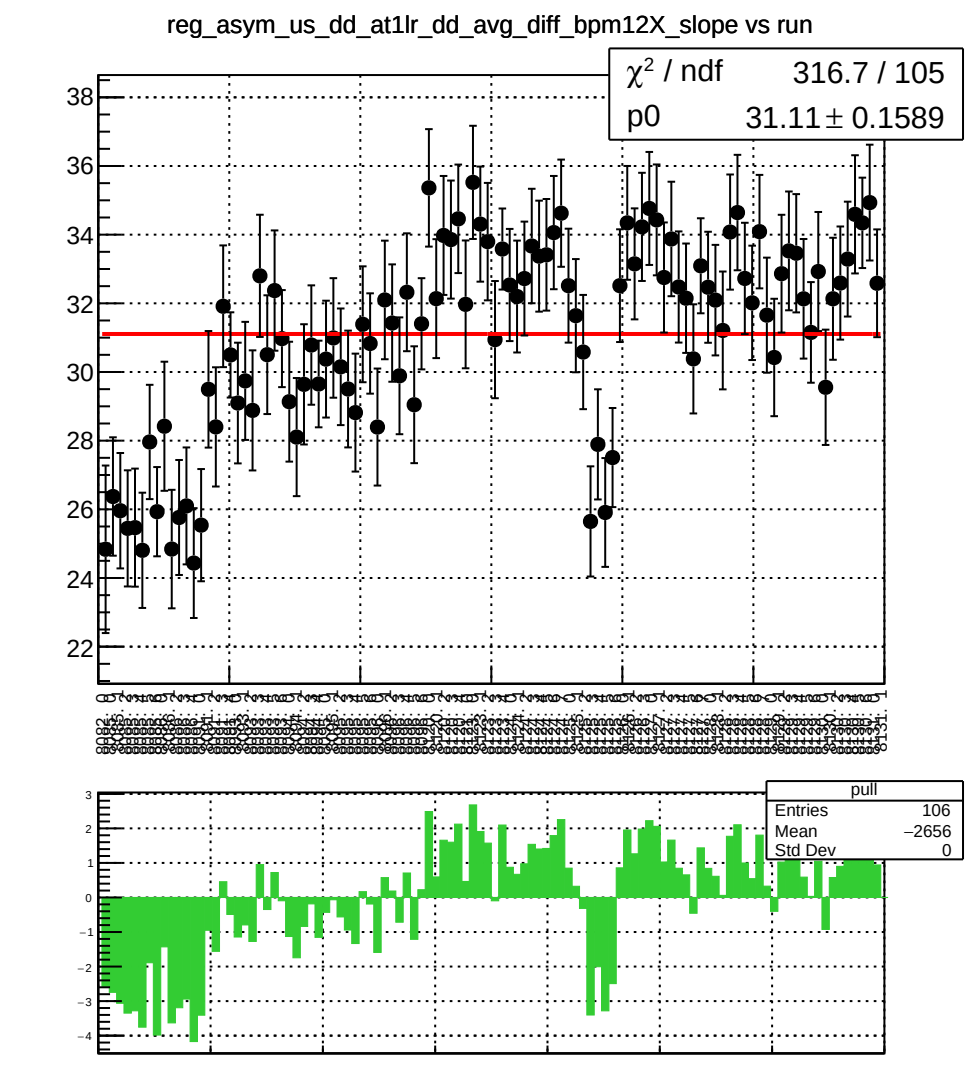

pull1D
Entries 106
Mean 0.003535
Std Dev 0.7482
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

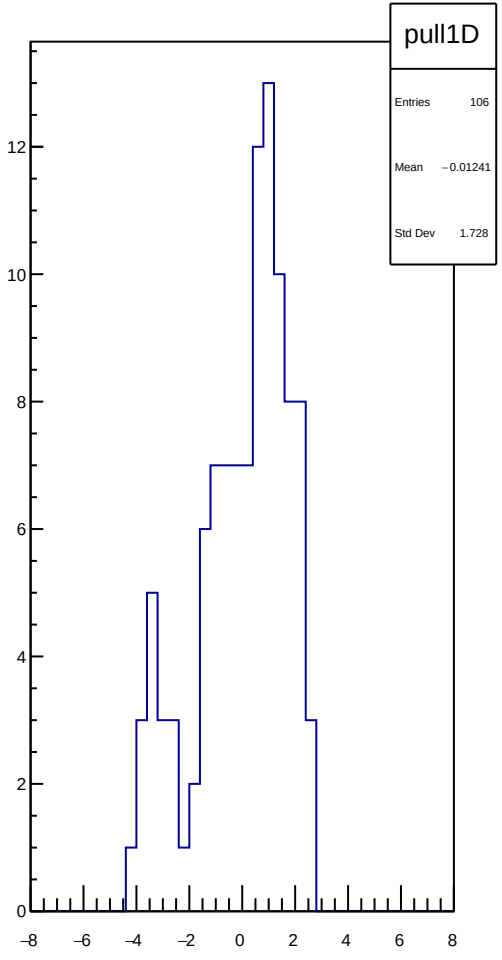

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 79.76 / 105
p0 −79.89 ± 2.518
pull
Entries 106
Mean 2045
Std Dev 0

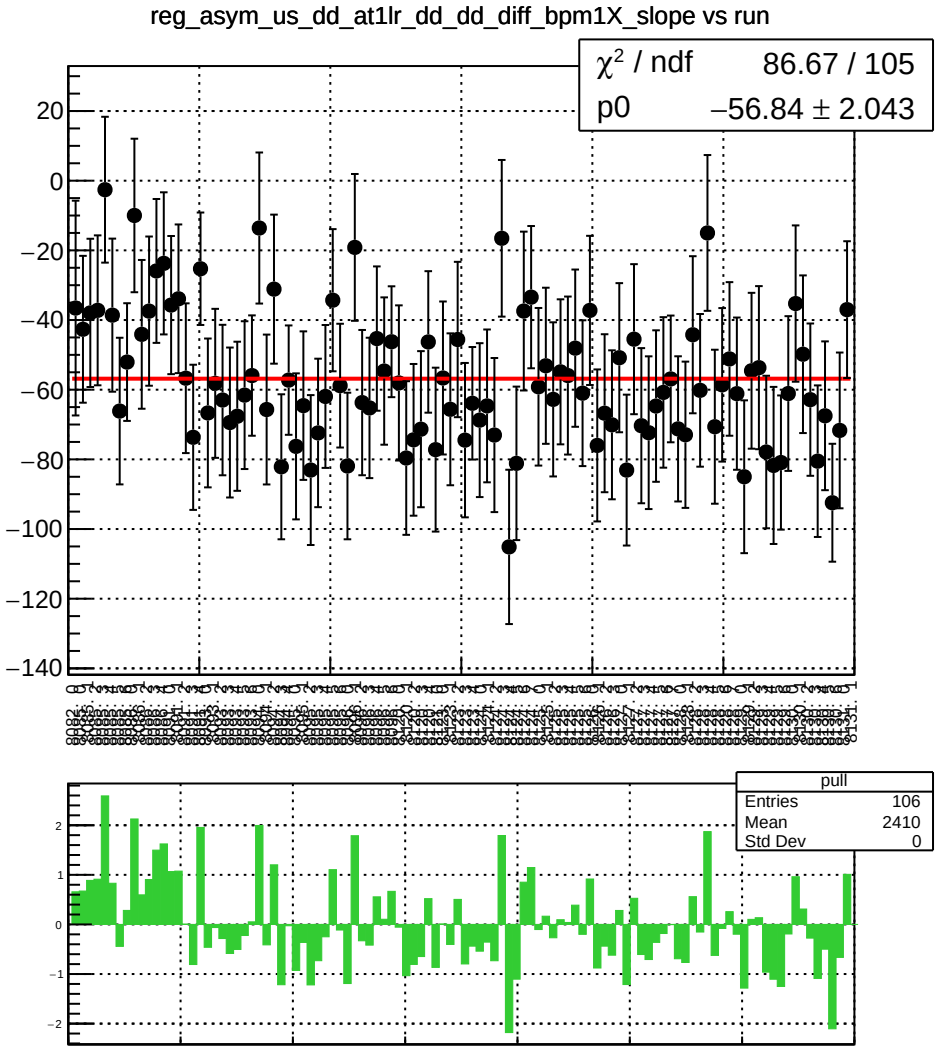

pull1D
Entries 106
Mean −0.00312
Std Dev 0.8675

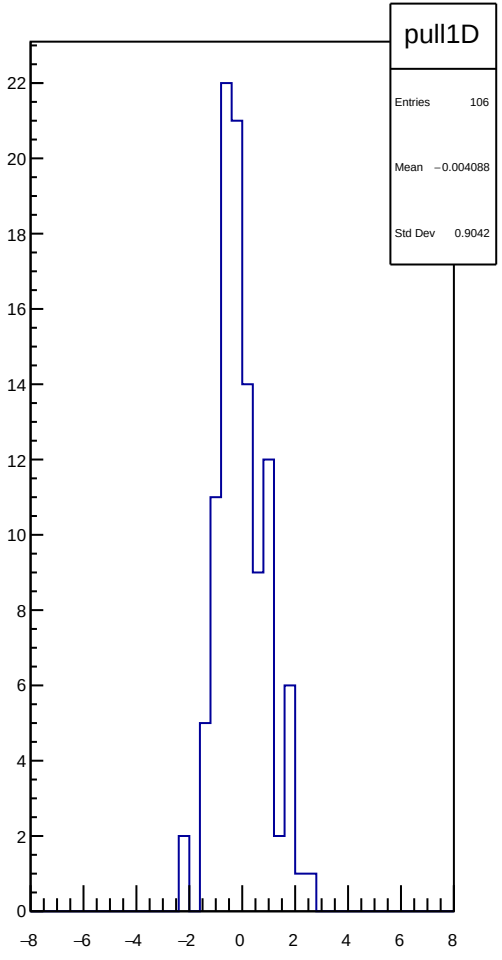

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 57.62 / 105
p0 5.837 ± 4.159
150
100
50
0
−50
−100
pull
Entries 106
Mean −391.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

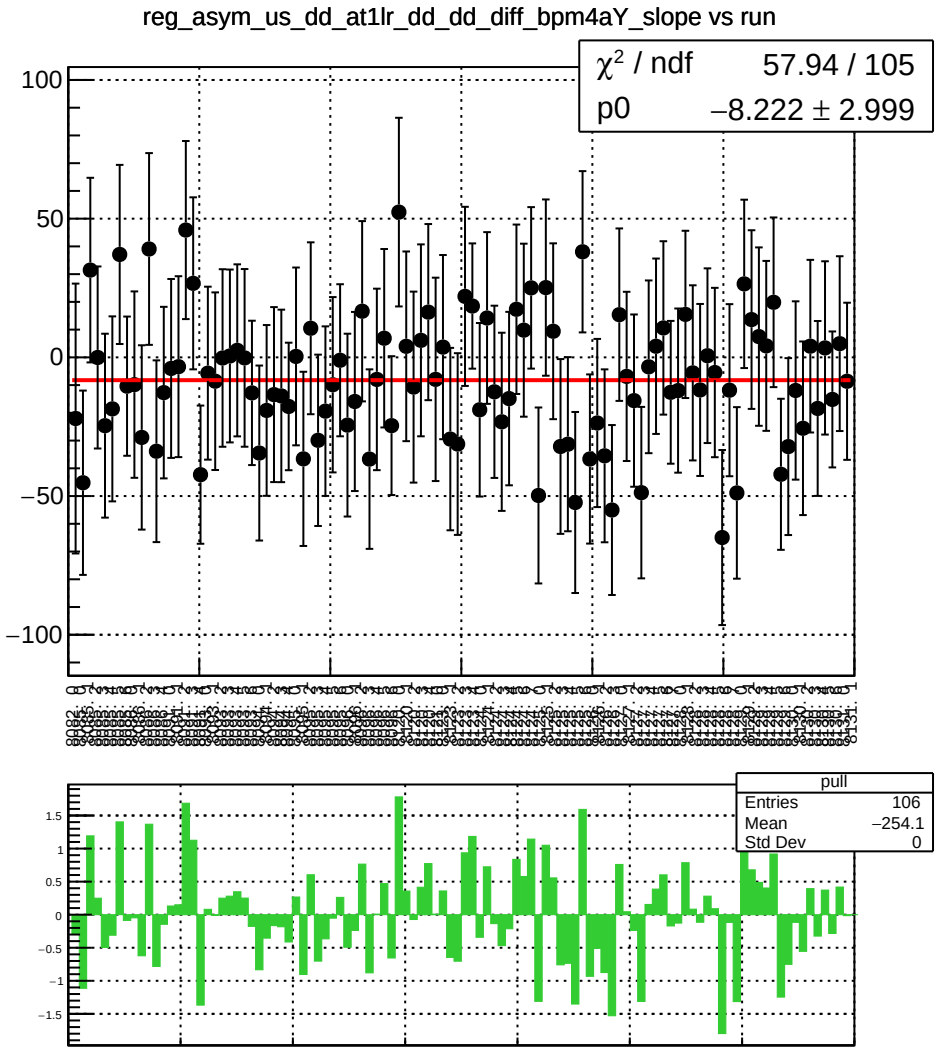

pull1D
Entries 106
Mean −0.004089
Std Dev 0.7372
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

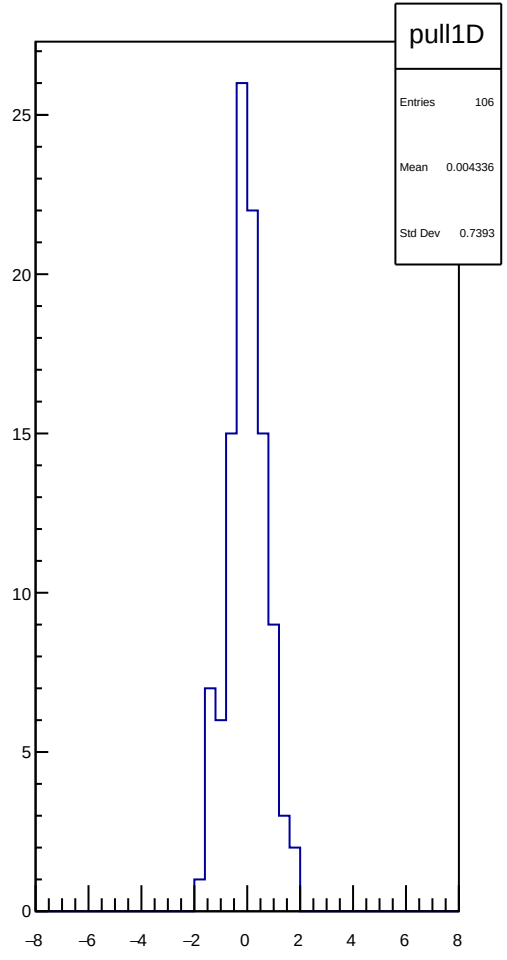

reg_asym_us_dd_at1lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 316.7 / 105
p0 31.11 ± 0.1589
38
36
34
32
30
28
26
24
22
pull
Entries 106
Mean −2656
Std Dev 0
3
2
1
0
−1
−2
−3
−4

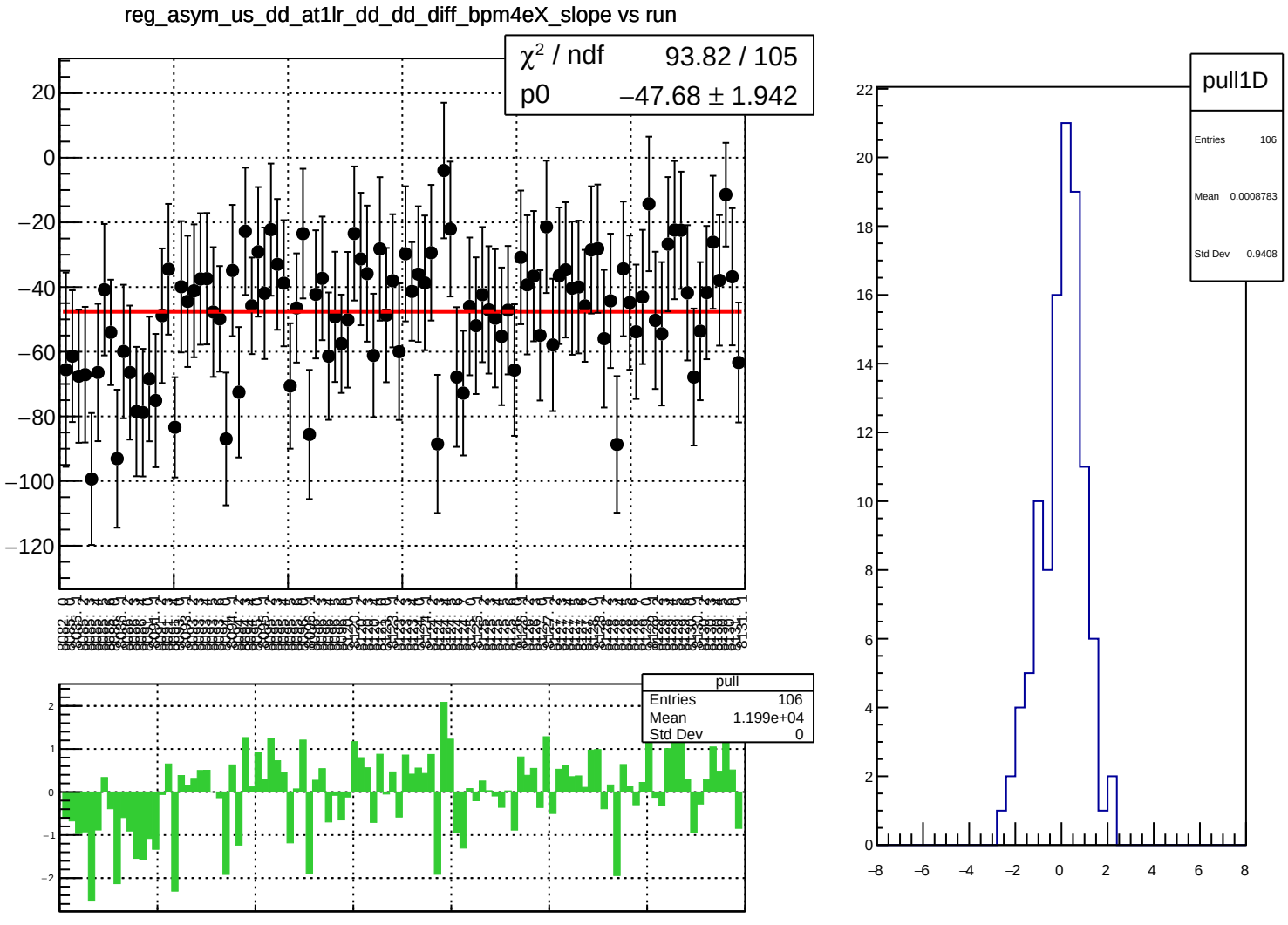

pull1D
Entries 106
Mean −0.01241
Std Dev 1.728
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

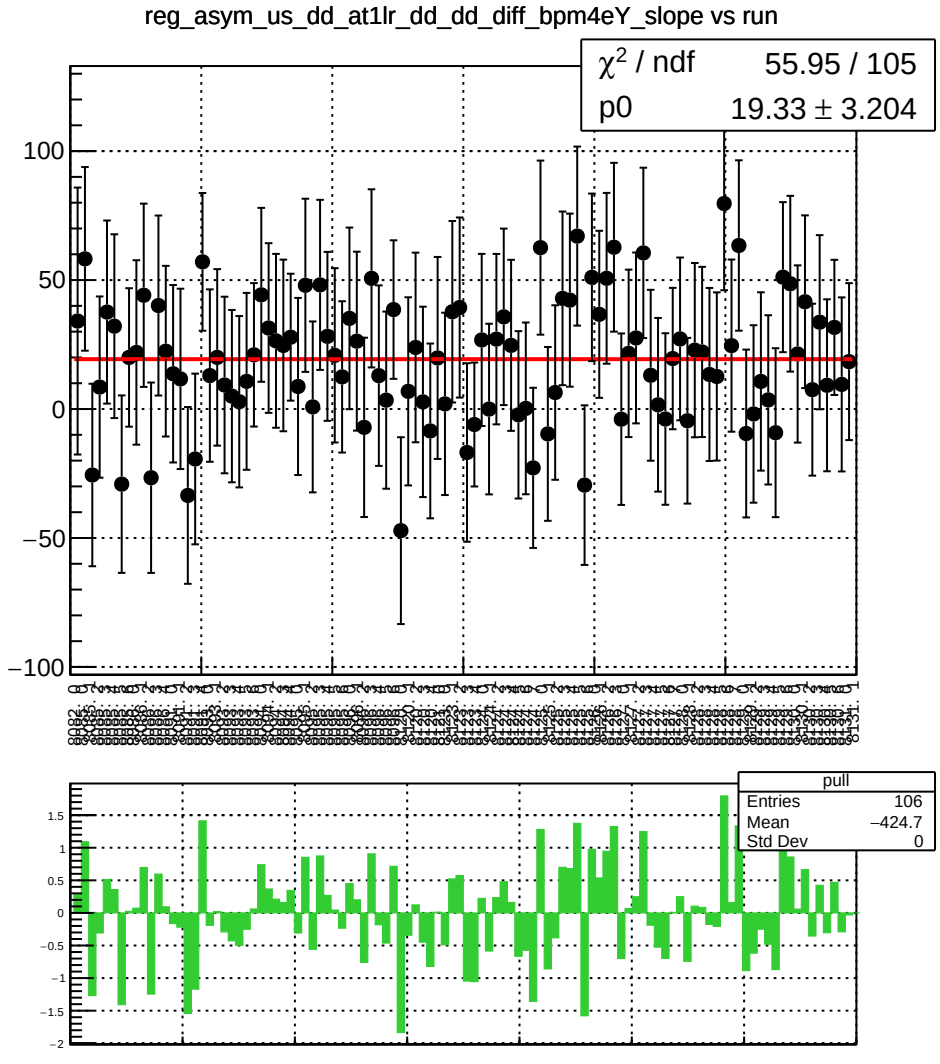

reg_asym_us_dd_at1lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 86.67 / 105
p0 −56.84 ± 2.043
pull
Entries 106
Mean 2410
Std Dev 0

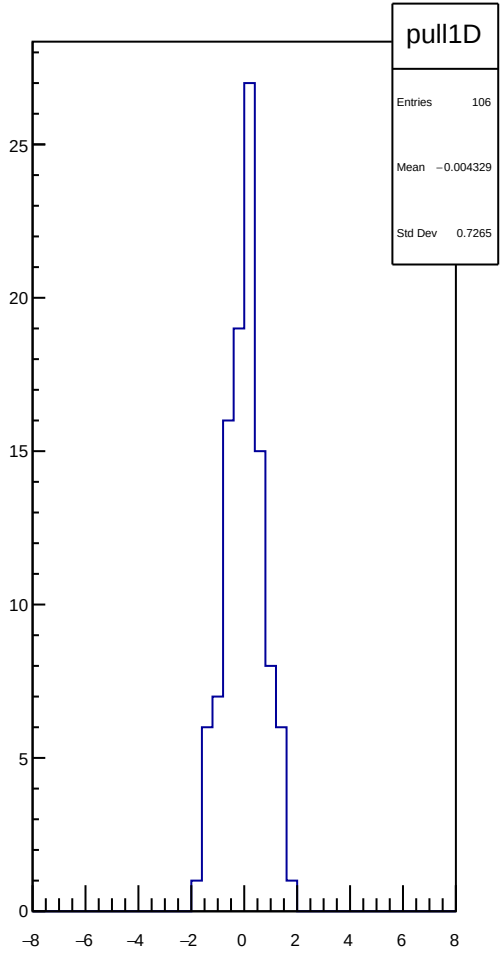

pull1D
Entries 106
Mean −0.004088
Std Dev 0.9042

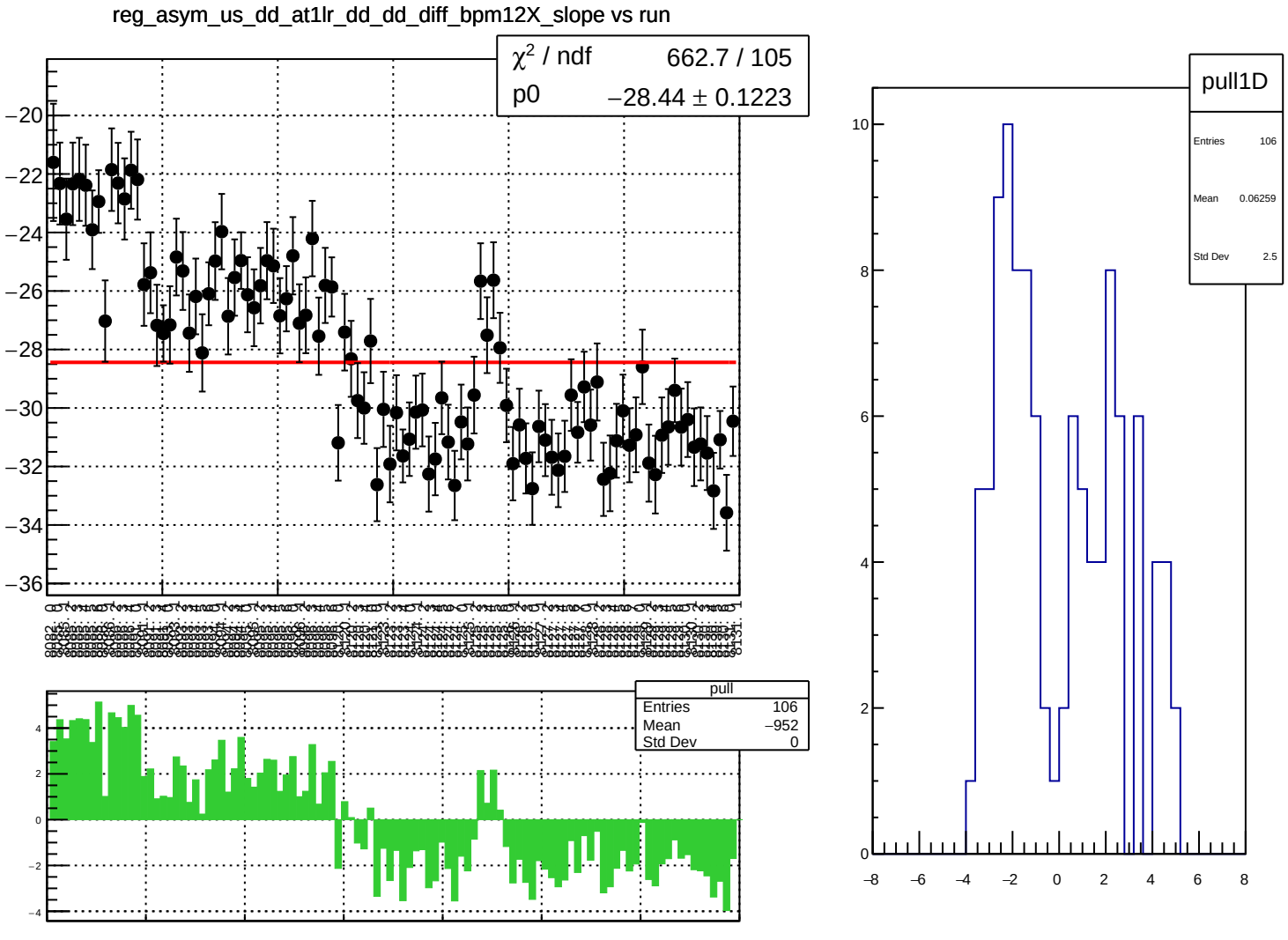

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 57.94 / 105
p0 −8.222 ± 2.999
100
50
0
−50
−100
pull
Entries 106
Mean −254.1
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

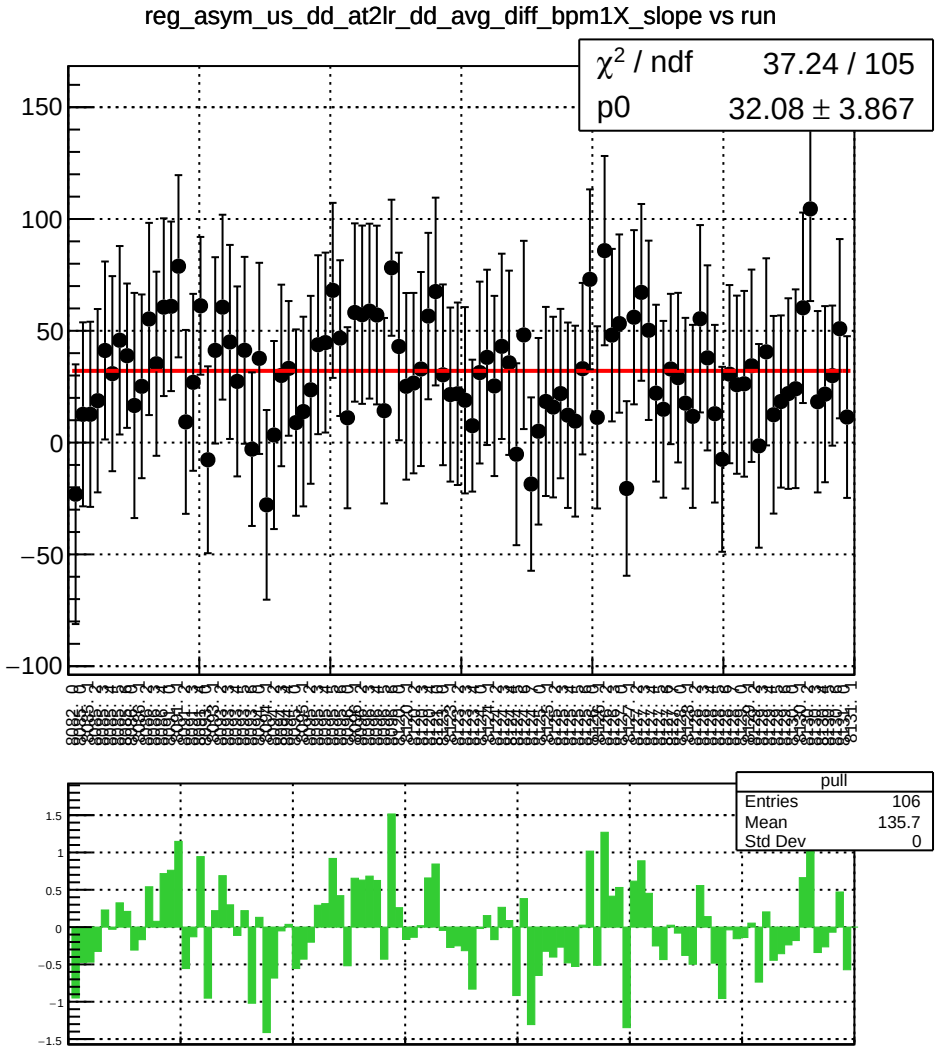

pull1D
Entries 106
Mean 0.004336
Std Dev 0.7393
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

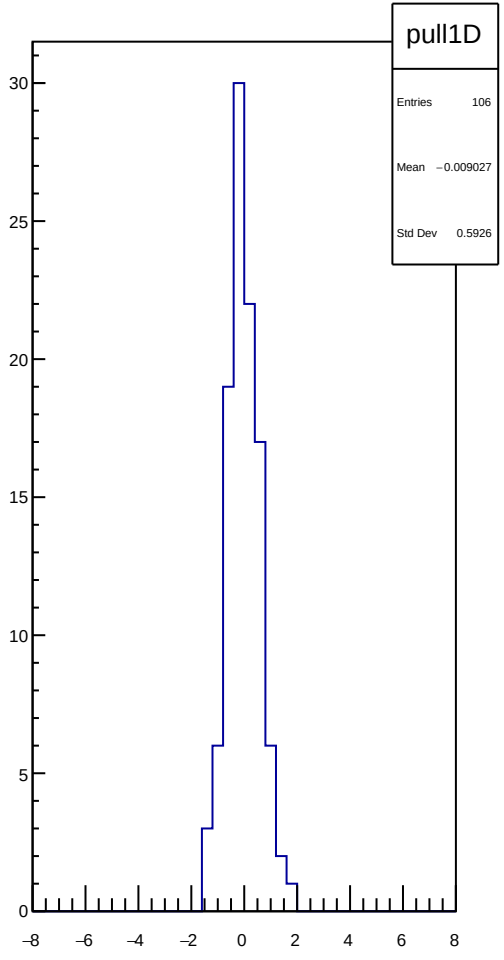

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 93.82 / 105
p0 −47.68 ± 1.942
pull
Entries 106
Mean 1.199e+04
Std Dev 0
pull1D
Entries 106
Mean 0.0008783
Std Dev 0.9408

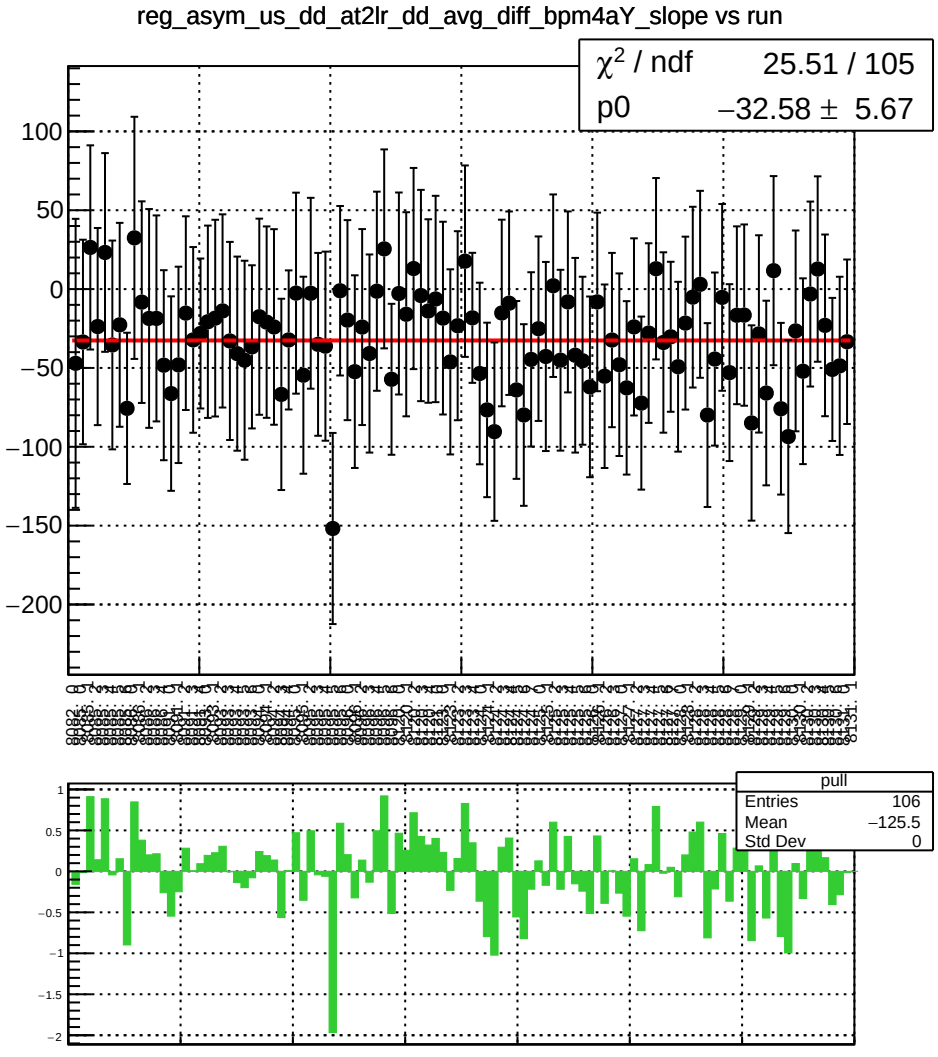

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 55.95 / 105
p0 19.33 ± 3.204
100
50
0
−50
−100
pull
Entries 106
Mean −424.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

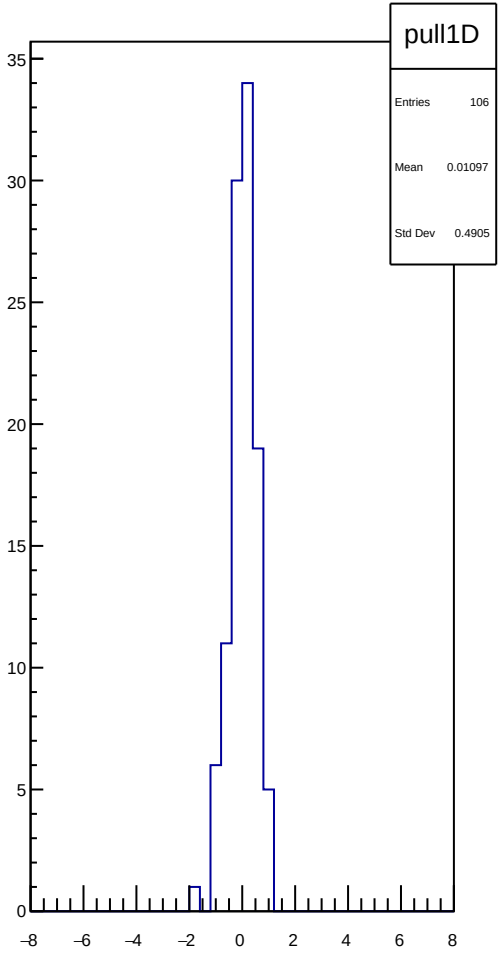

pull1D
Entries 106
Mean −0.004329
Std Dev 0.7265
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

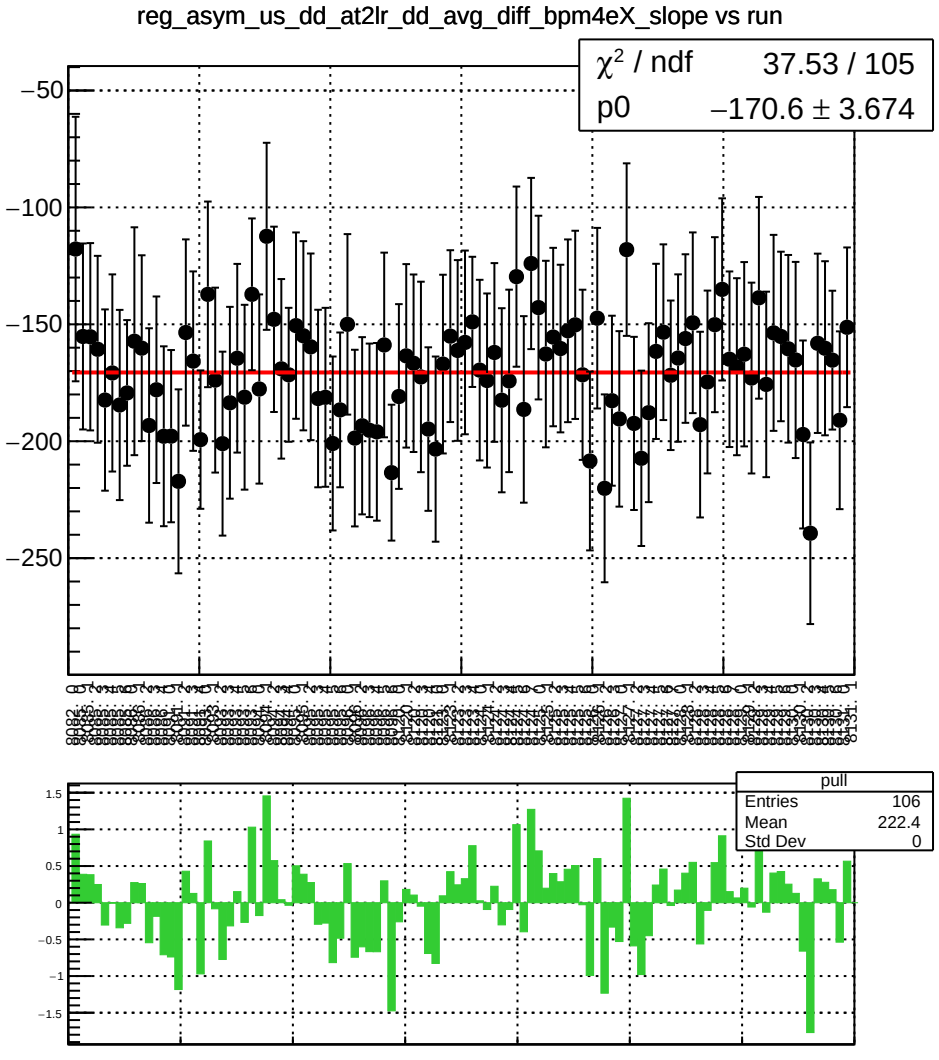

reg_asym_us_dd_at1lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 662.7 / 105
p0 −28.44 ± 0.1223
pull
Entries 106
Mean −952
Std Dev 0
pull1D
Entries 106
Mean 0.06259
Std Dev 2.5

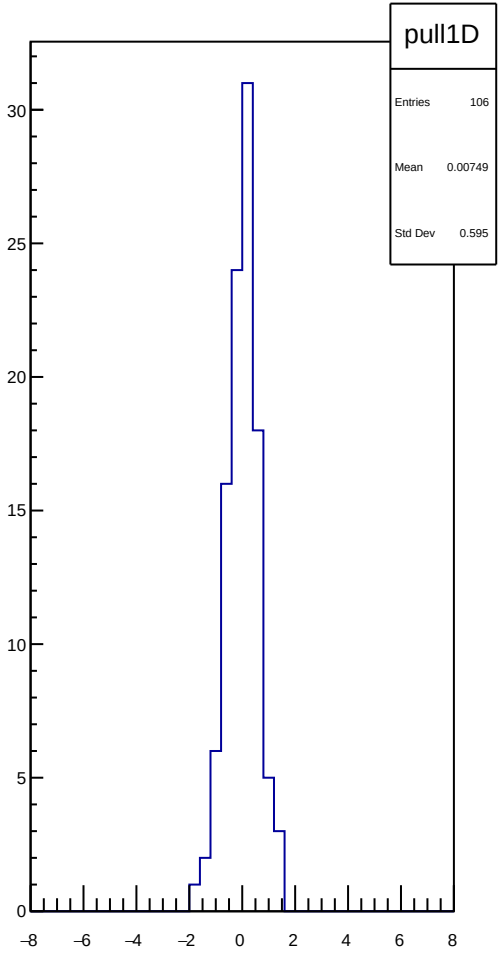

reg_asym_us_dd_at2lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 37.24 / 105
p0 32.08 ± 3.867
150
100
50
0
−50
−100
pull
Entries 106
Mean 135.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

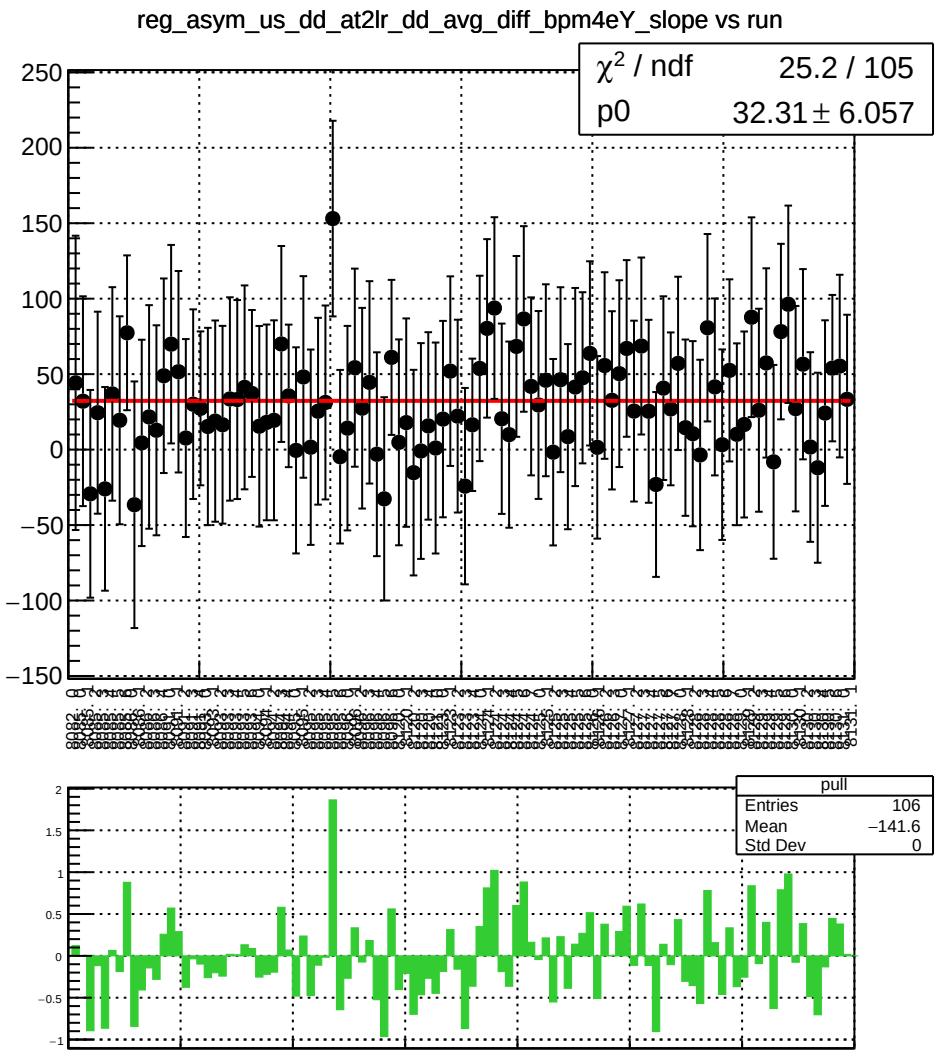

pull1D
Entries 106
Mean −0.009027
Std Dev 0.5926
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

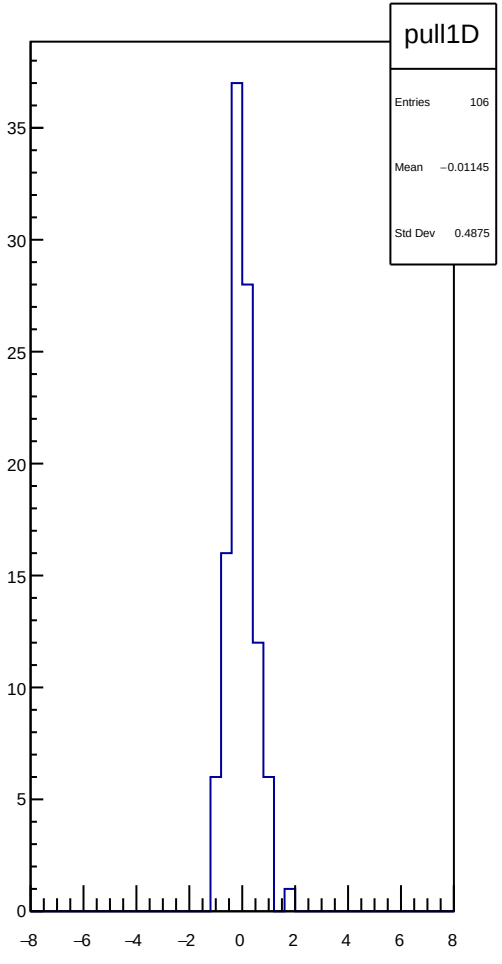

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 25.51 / 105
p0 −32.58 ± 5.67
pull
Entries 106
Mean −125.5
Std Dev 0

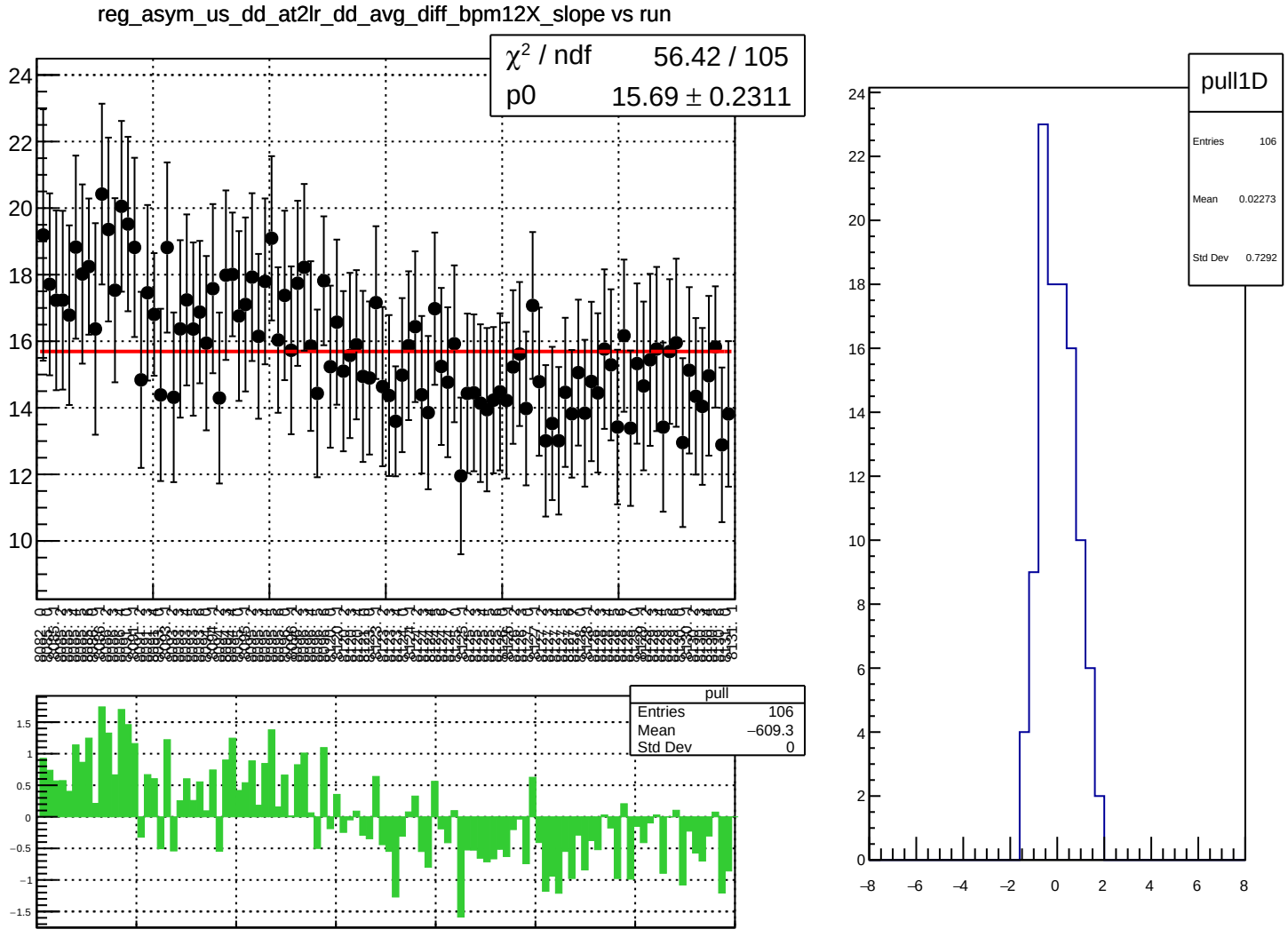

pull1D
Entries 106
Mean 0.01097
Std Dev 0.4905

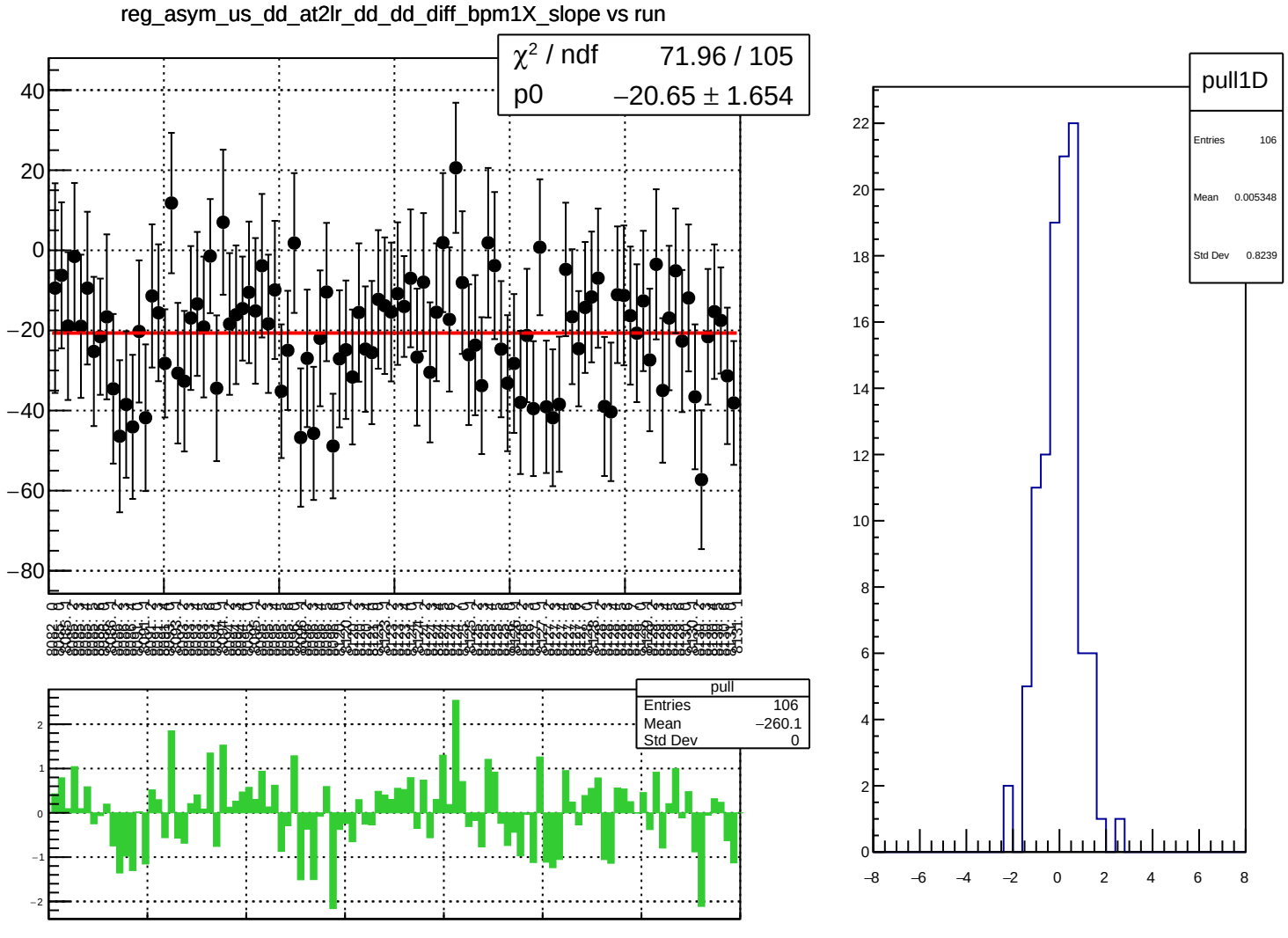

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 37.53 / 105
p0 −170.6 ± 3.674
−50
−100
−150
−200
−250
pull
Entries 106
Mean 222.4
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

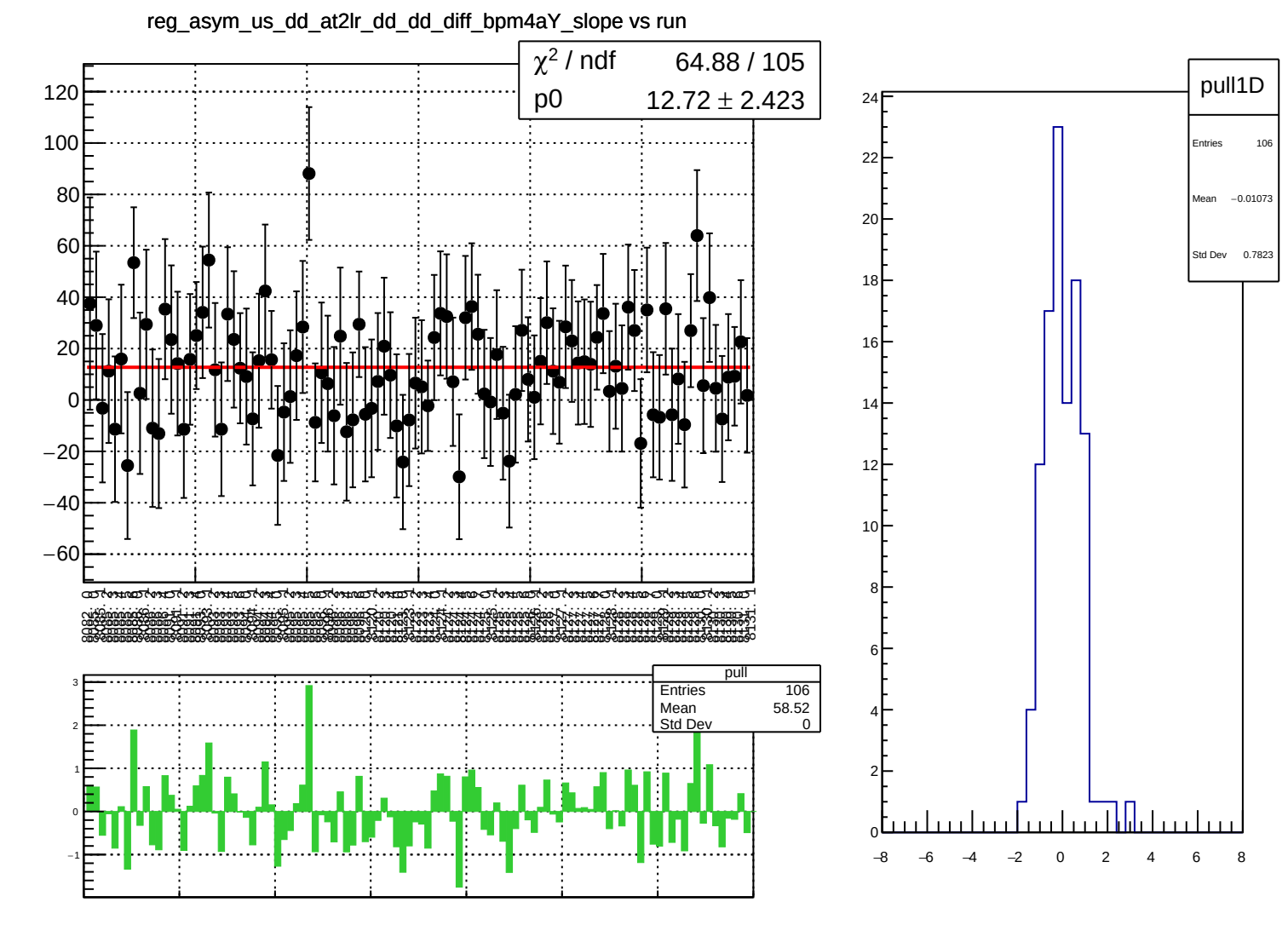

pull1D
Entries 106
Mean 0.00749
Std Dev 0.595
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

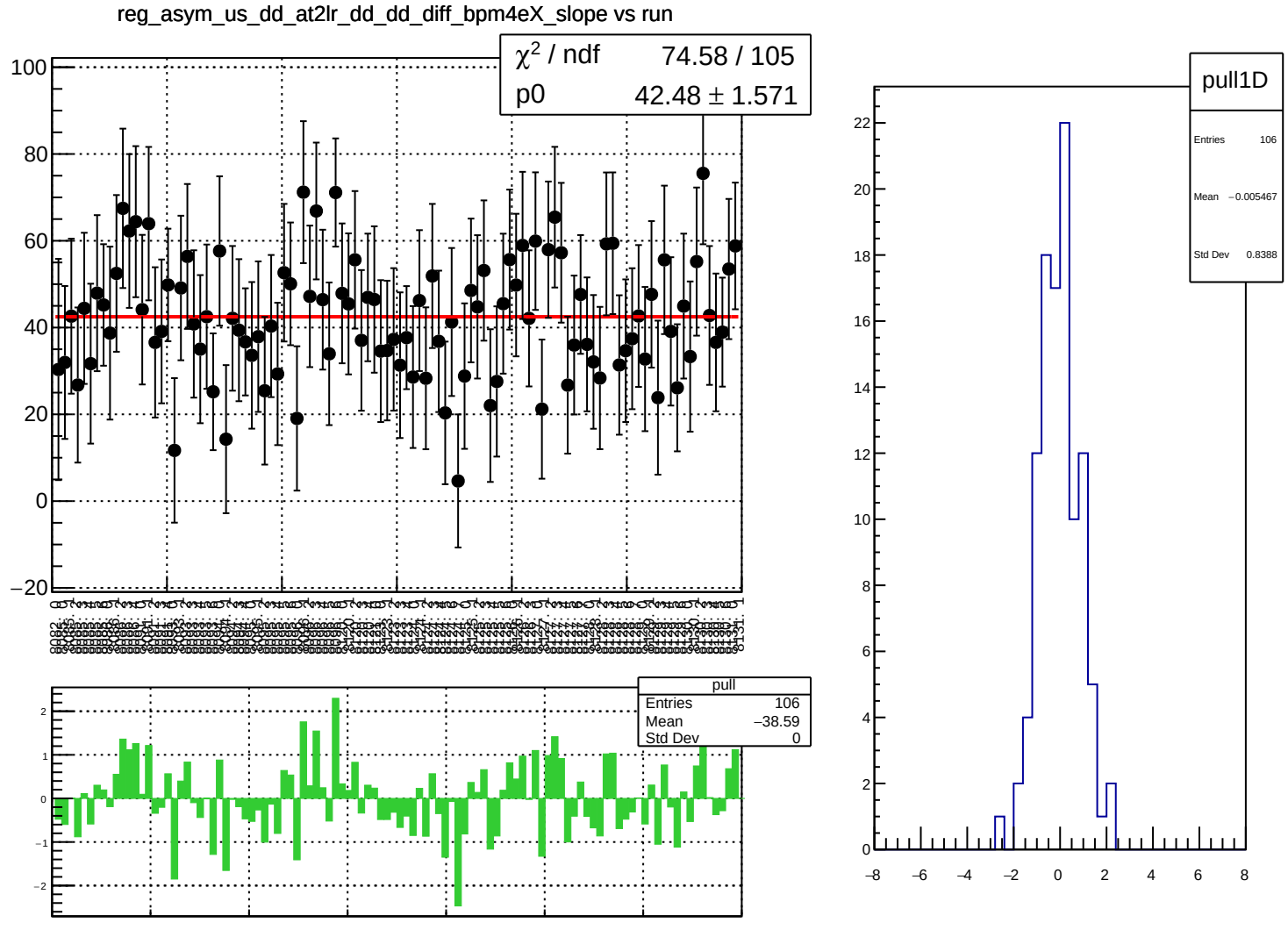

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 25.2 / 105
p0 32.31 ± 6.057
pull
Entries 106
Mean −141.6
Std Dev 0

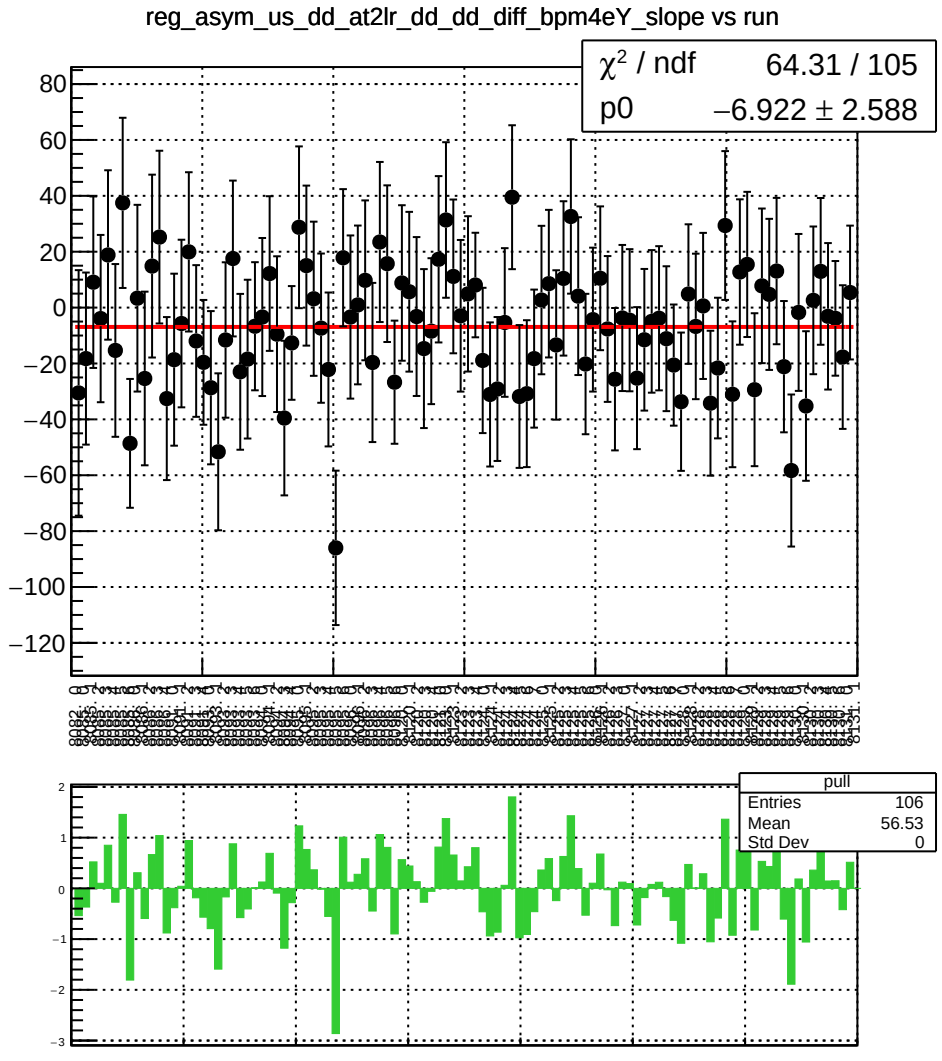

pull1D
Entries 106
Mean −0.01145
Std Dev 0.4875

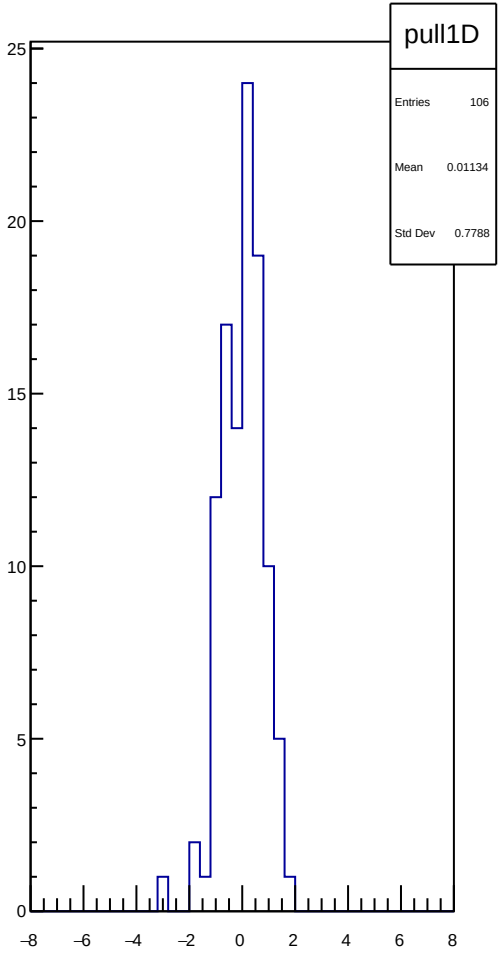

reg_asym_us_dd_at2lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 56.42 / 105
p0 15.69 ± 0.2311
pull
Entries 106
Mean −609.3
Std Dev 0
pull1D
Entries 106
Mean 0.02273
Std Dev 0.7292

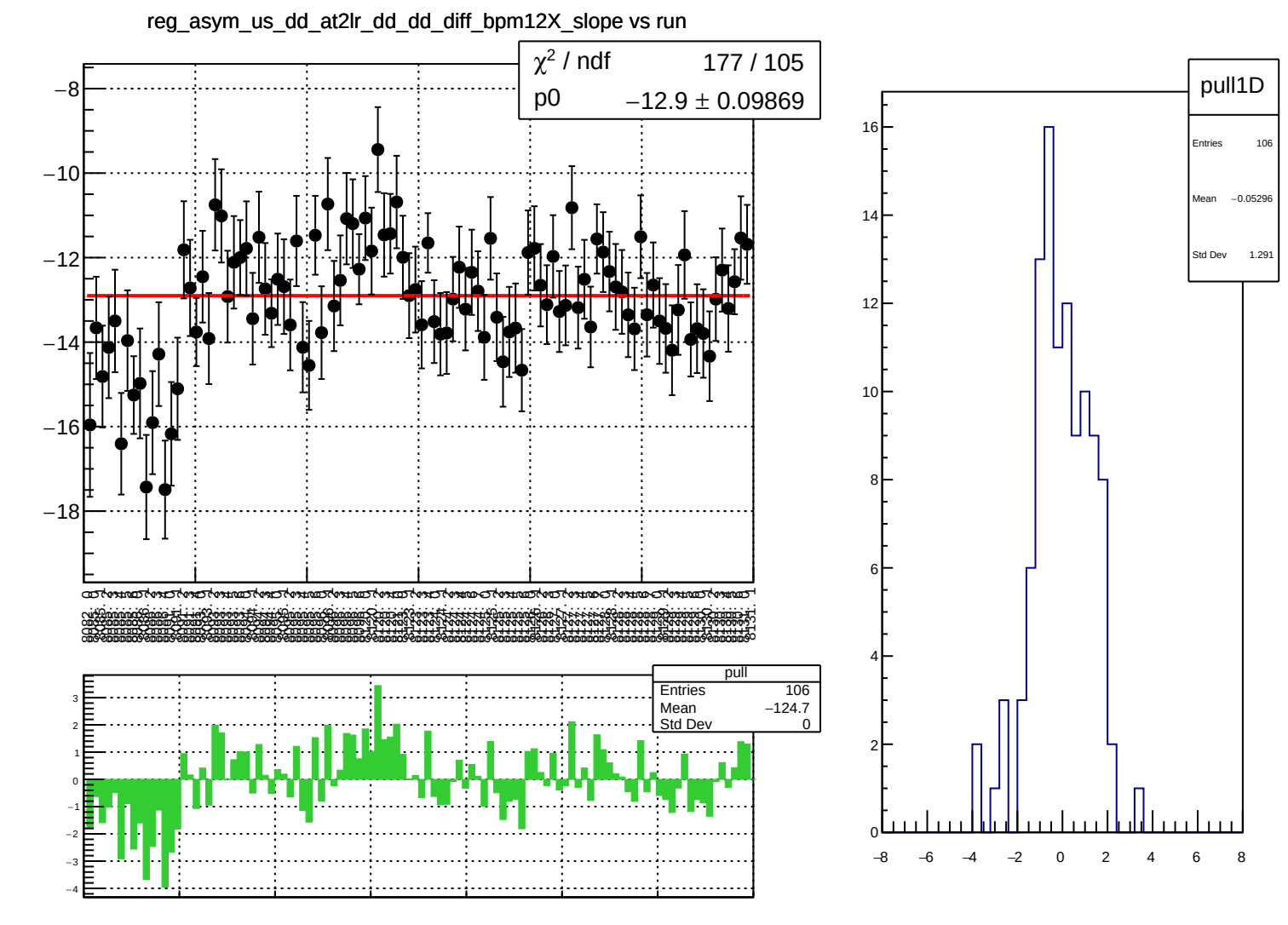

reg_asym_us_dd_at2lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 71.96 / 105
p0 −20.65 ± 1.654
pull
Entries 106
Mean −260.1
Std Dev 0
pull1D
Entries 106
Mean 0.005348
Std Dev 0.8239

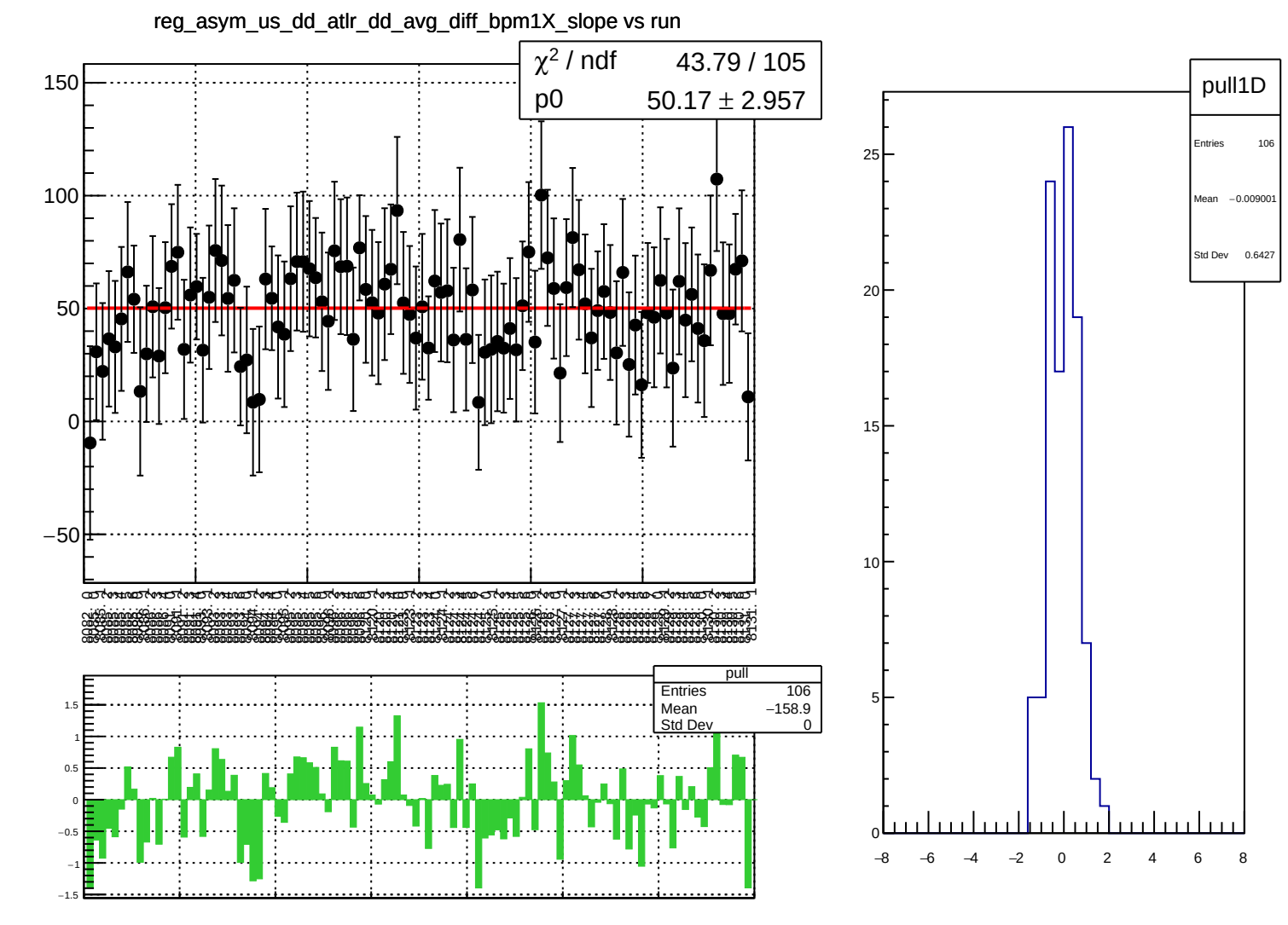

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 64.88 / 105
p0 12.72 ± 2.423
pull
Entries 106
Mean 58.52
Std Dev 0
pull1D
Entries 106
Mean −0.01073
Std Dev 0.7823

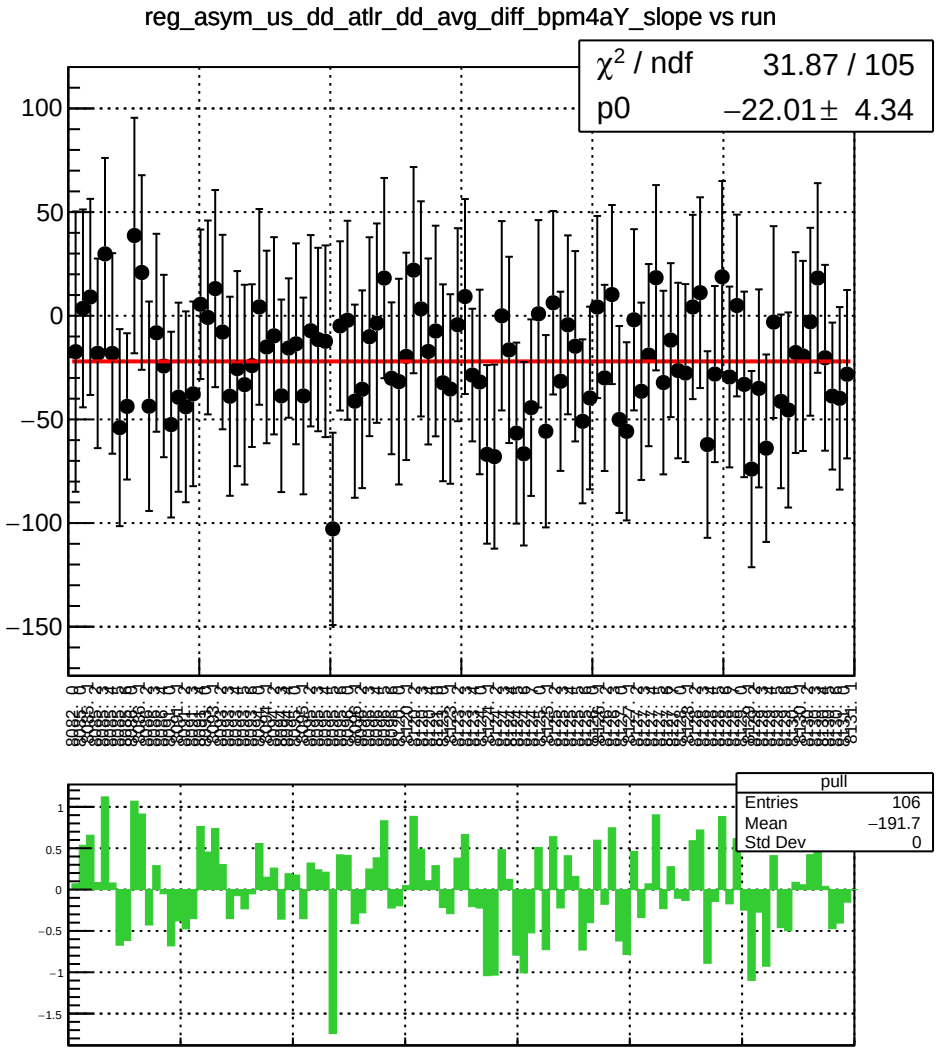

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 74.58 / 105
p0 42.48 ± 1.571
pull
Entries 106
Mean −38.59
Std Dev 0
pull1D
Entries 106
Mean −0.005467
Std Dev 0.8388

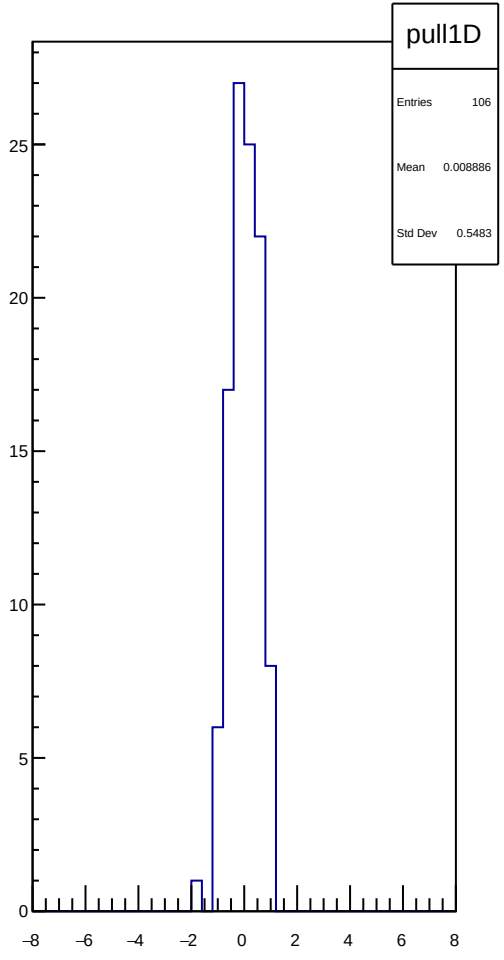

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 64.31 / 105
p0 −6.922 ± 2.588
pull
Entries 106
Mean 56.53
Std Dev 0

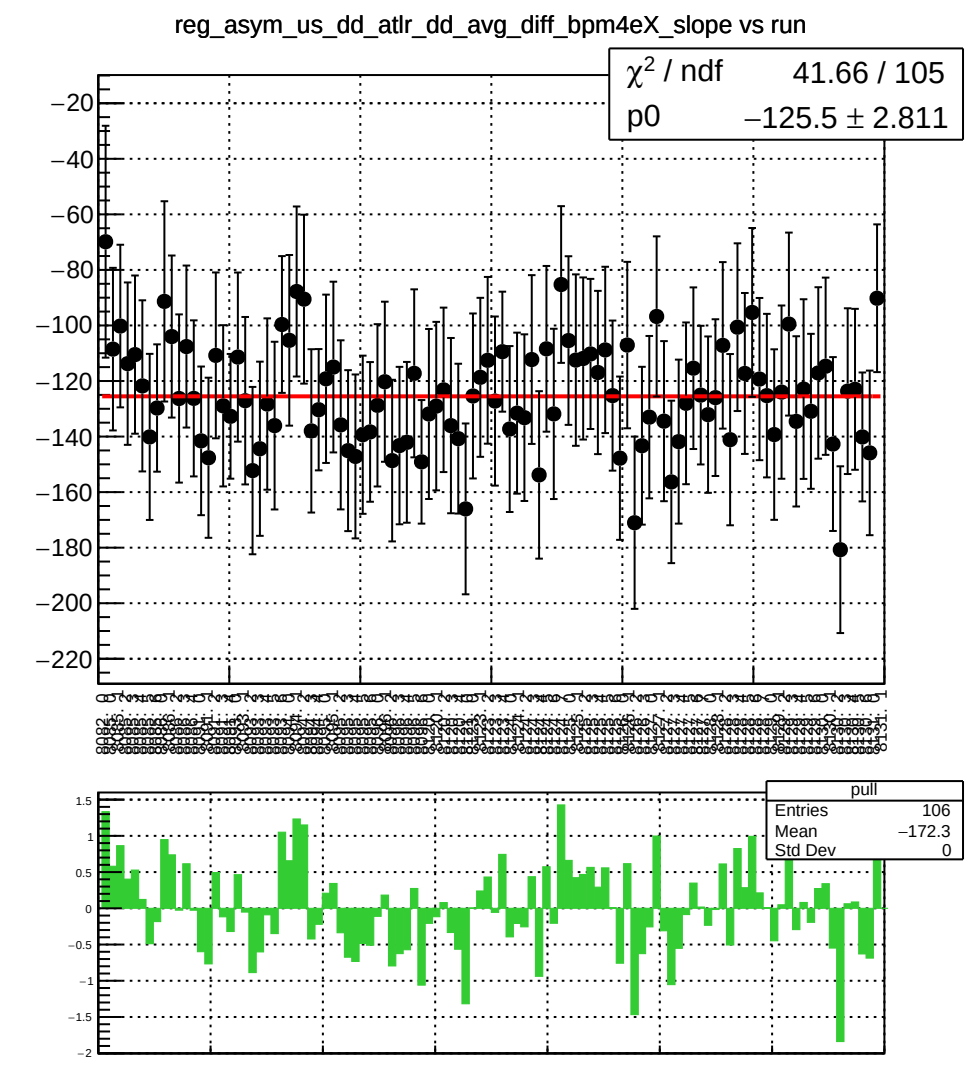

pull1D
Entries 106
Mean 0.01134
Std Dev 0.7788

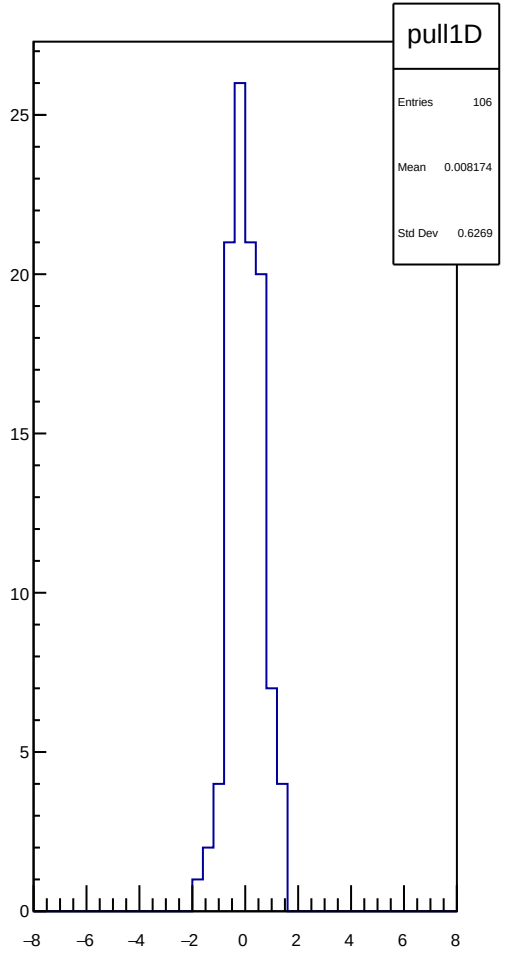

reg_asym_us_dd_at2lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 177 / 105
p0 −12.9 ± 0.09869
pull
Entries 106
Mean −124.7
Std Dev 0
pull1D
Entries 106
Mean −0.05296
Std Dev 1.291

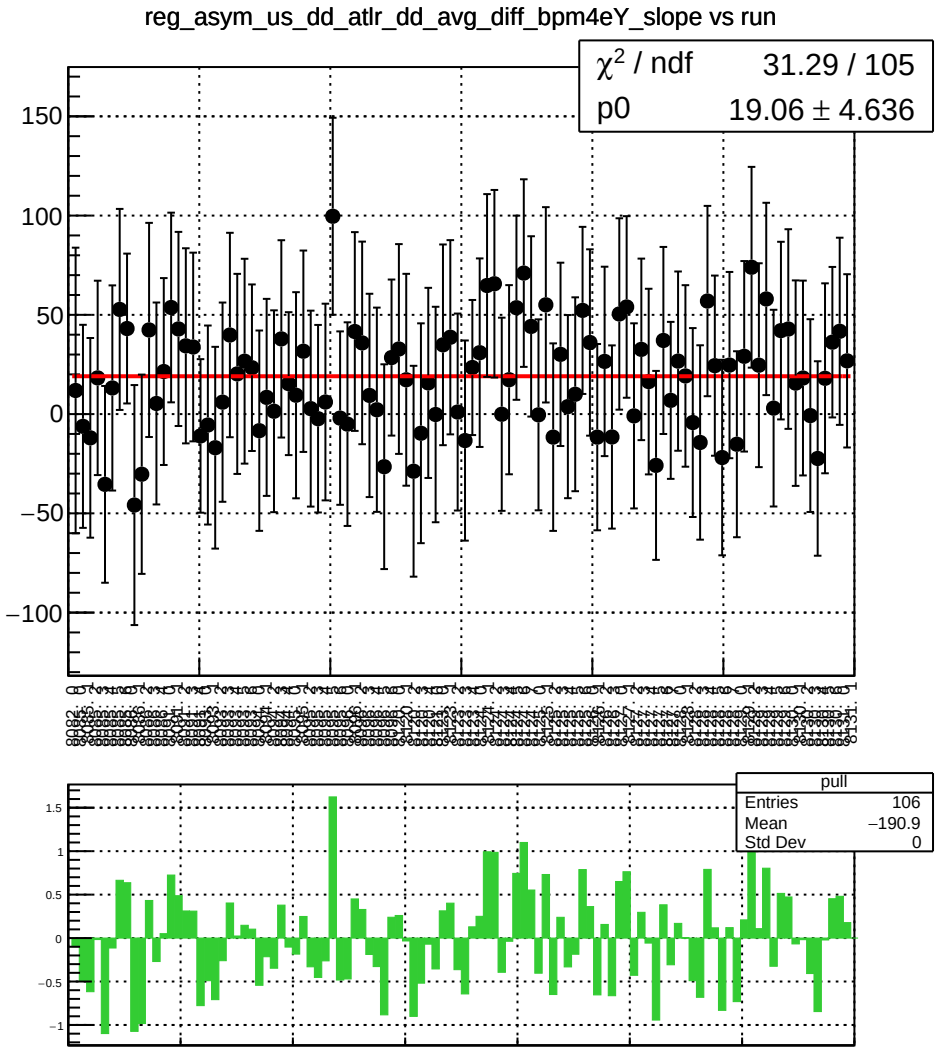

reg_asym_us_dd_atlr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 43.79 / 105
p0 50.17 ± 2.957
150
100
50
0
−50
pull
Entries 106
Mean −158.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 106
Mean −0.009001
Std Dev 0.6427
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

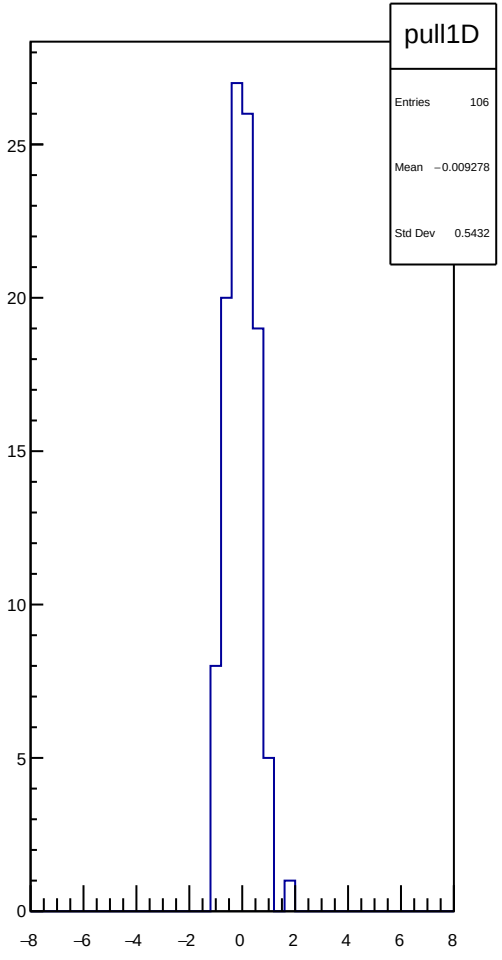

reg_asym_us_dd_atlr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 31.87 / 105
p0 −22.01 ± 4.34
100
50
0
−50
−100
−150
pull
Entries 106
Mean −191.7
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

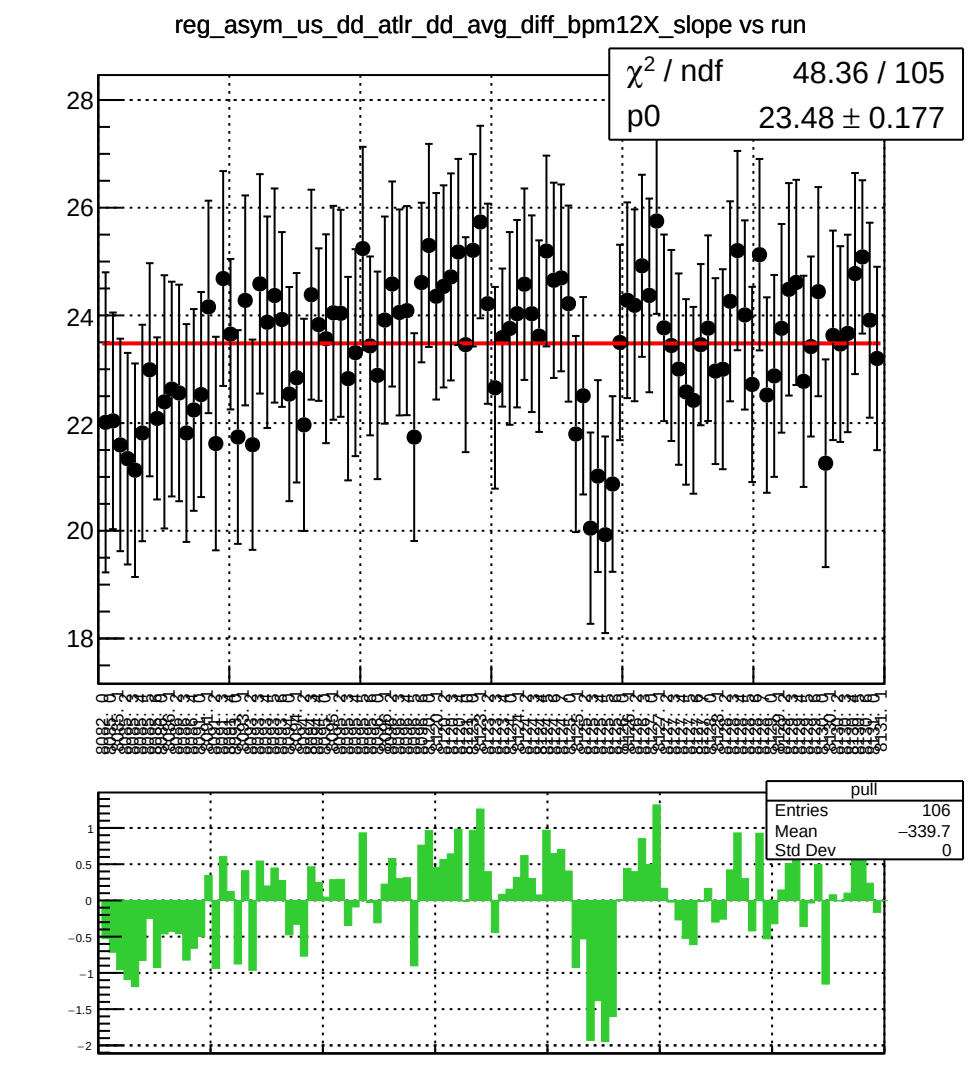

pull1D
Entries 106
Mean 0.008886
Std Dev 0.5483
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

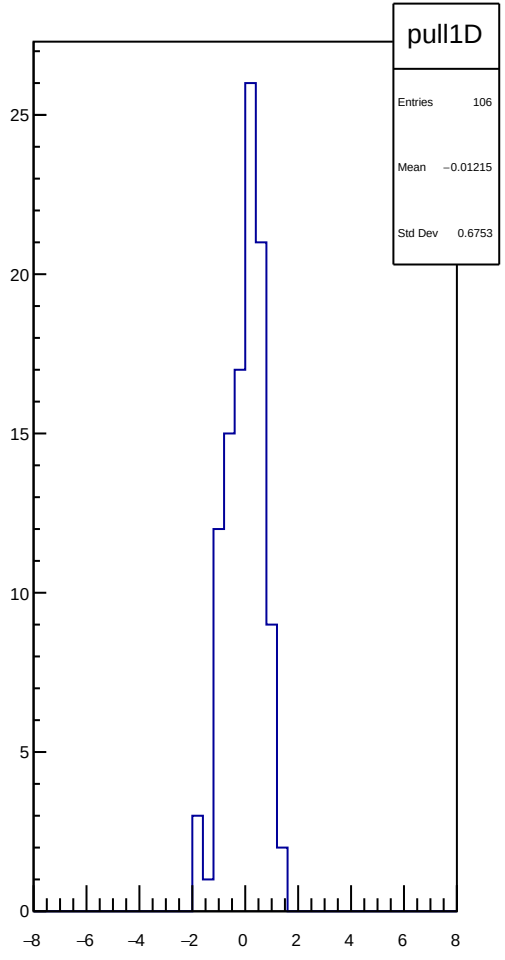

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 41.66 / 105
p0 −125.5 ± 2.811
pull
Entries 106
Mean −172.3
Std Dev 0

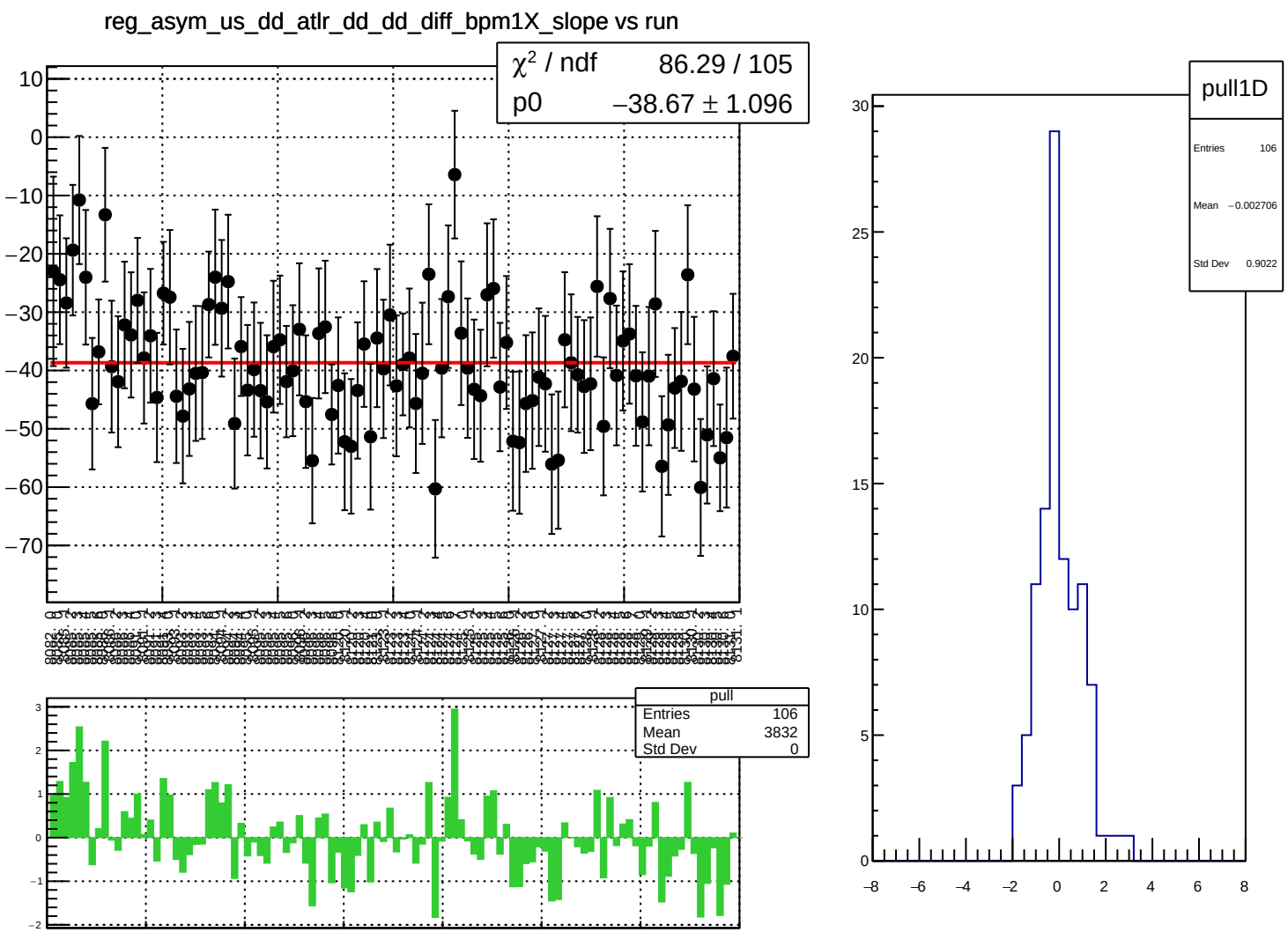

pull1D
Entries 106
Mean 0.008174
Std Dev 0.6269

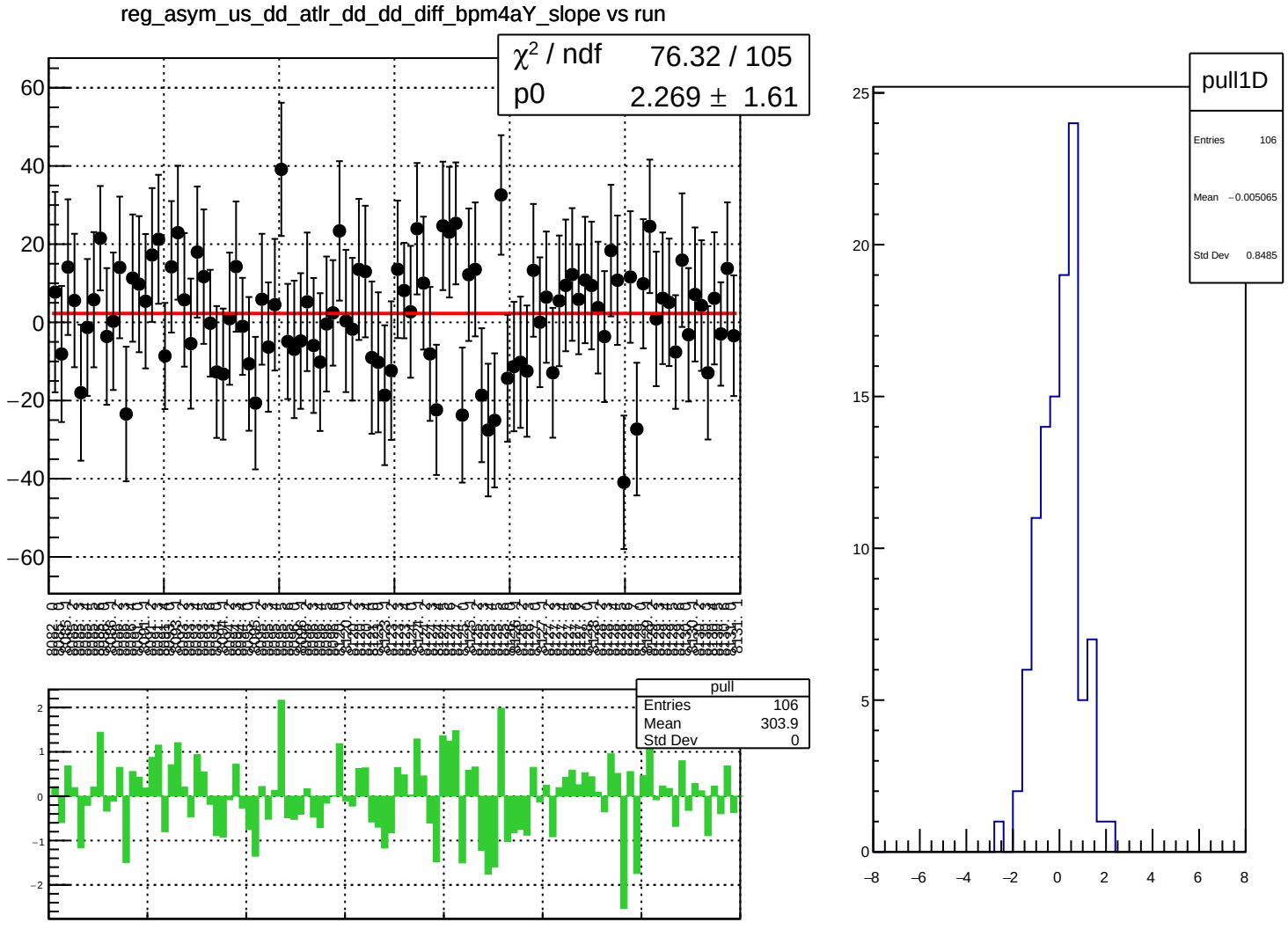

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 31.29 / 105
p0 19.06 ± 4.636
150
100
50
0
−50
−100
pull
Entries 106
Mean −190.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1

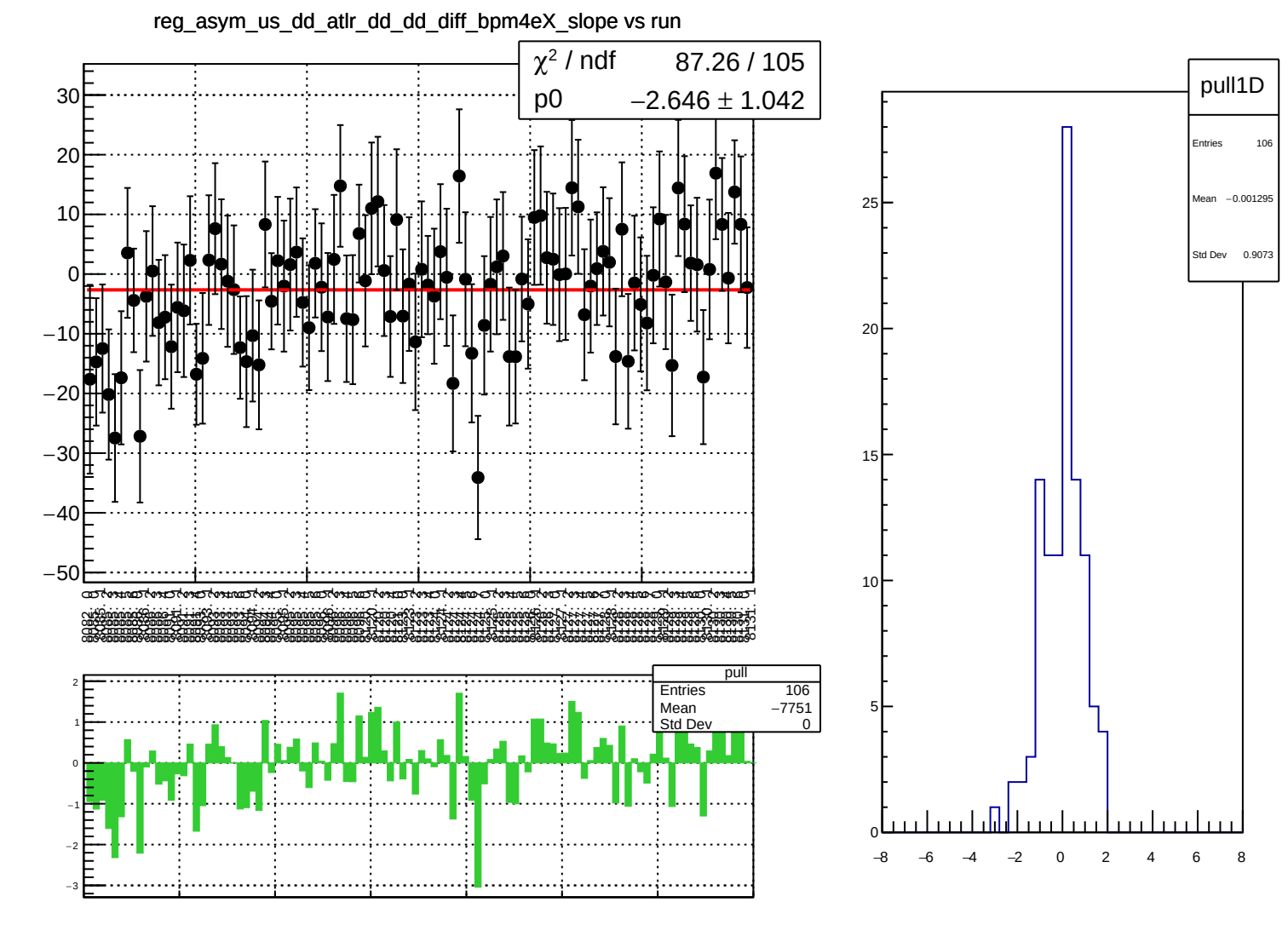

pull1D
Entries 106
Mean −0.009278
Std Dev 0.5432
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

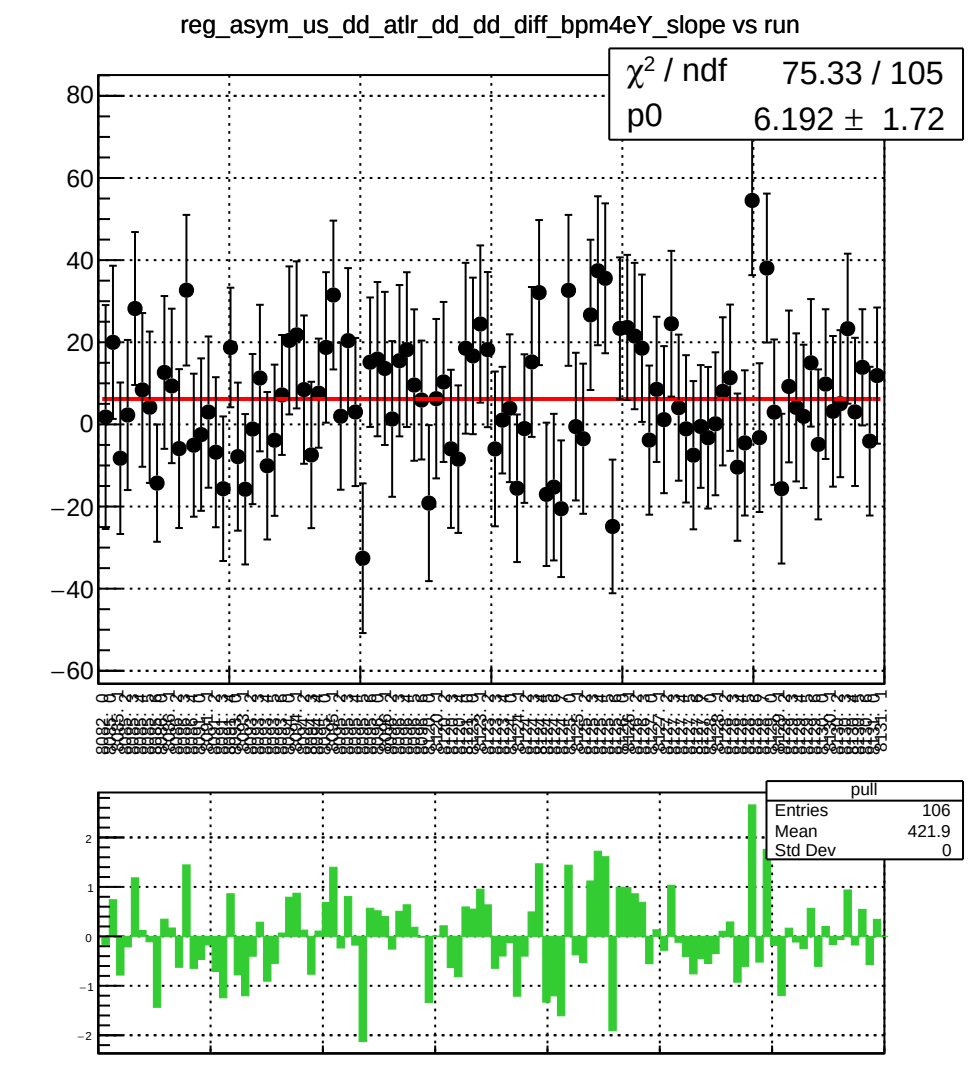

reg_asym_us_dd_atlr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 48.36 / 105
p0 23.48 ± 0.177
28
26
24
22
20
18
pull
Entries 106
Mean −339.7
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

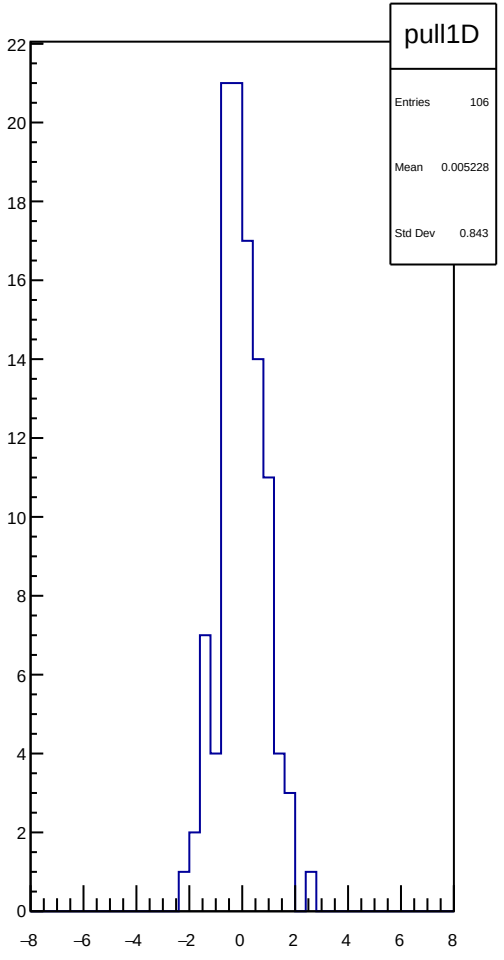

pull1D
Entries 106
Mean −0.01215
Std Dev 0.6753
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

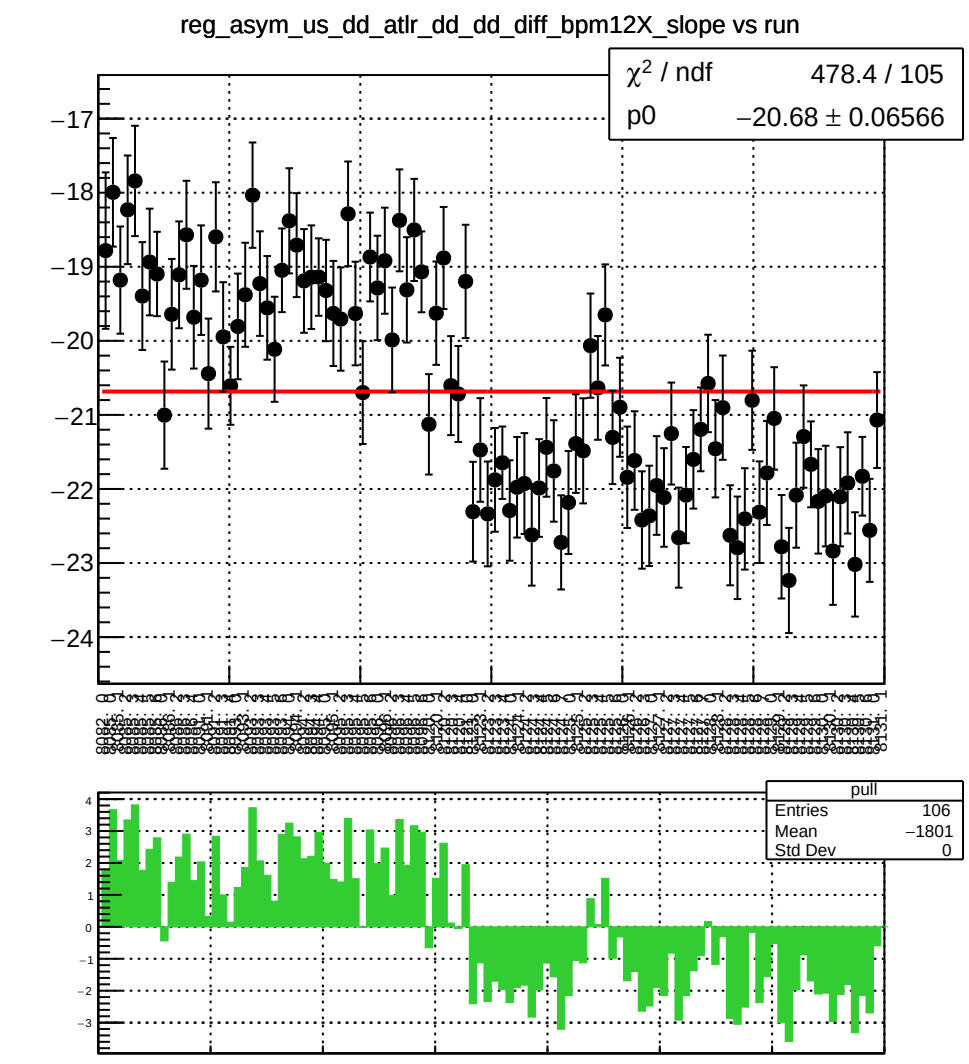

reg_asym_us_dd_atlr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 86.29 / 105
p0 −38.67 ± 1.096
pull
Entries 106
Mean 3832
Std Dev 0
pull1D
Entries 106
Mean −0.002706
Std Dev 0.9022

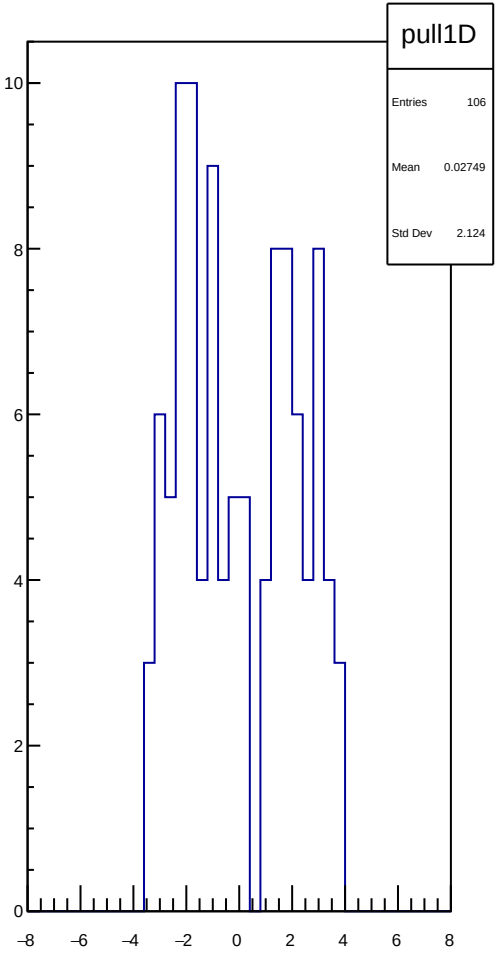

reg_asym_us_dd_atlr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 76.32 / 105
p0 2.269 ± 1.61
pull
Entries 106
Mean 303.9
Std Dev 0
pull1D
Entries 106
Mean −0.005065
Std Dev 0.8485

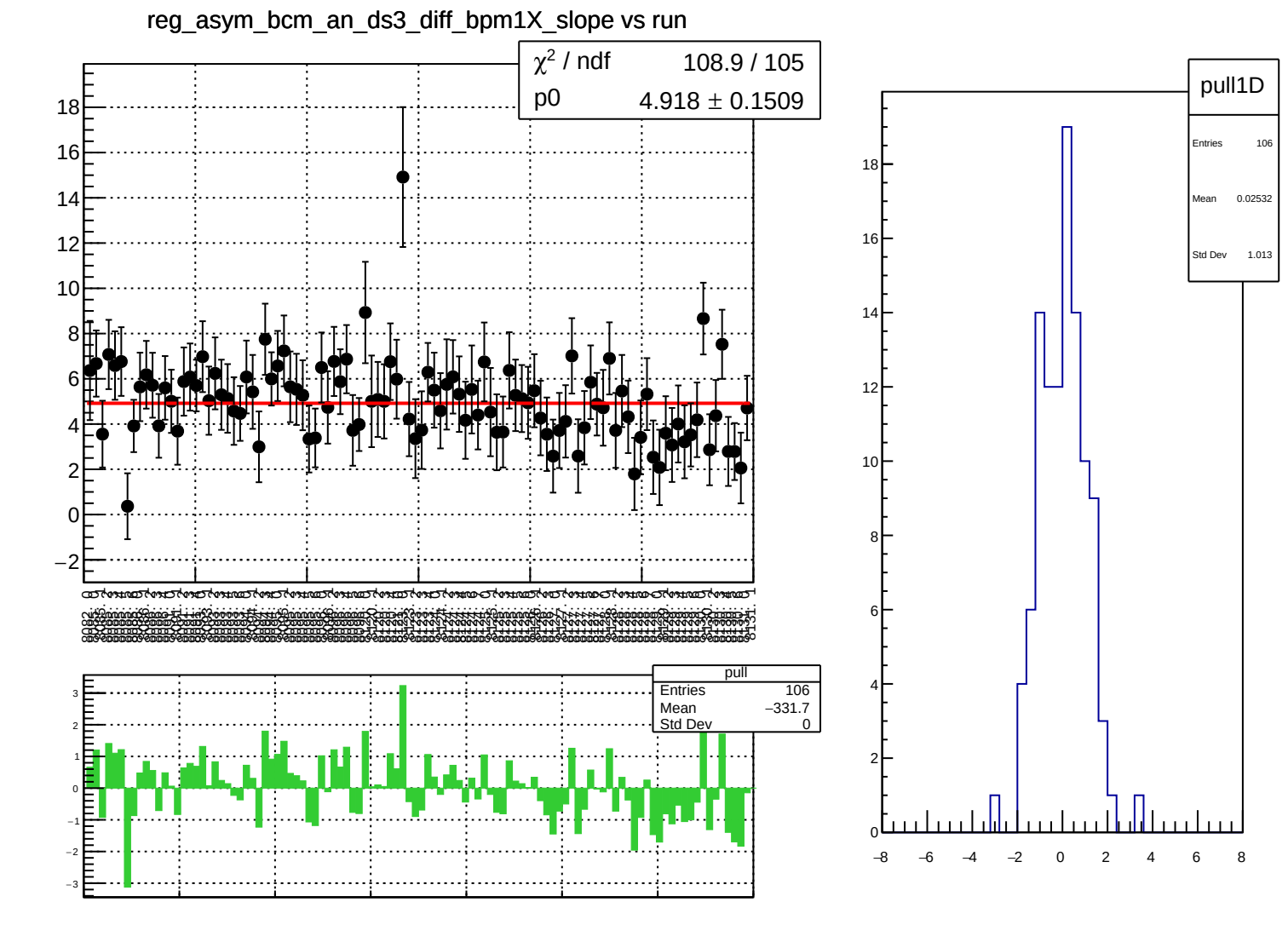

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 87.26 / 105
p0 −2.646 ± 1.042
pull
Entries 106
Mean −7751
Std Dev 0
pull1D
Entries 106
Mean −0.001295
Std Dev 0.9073

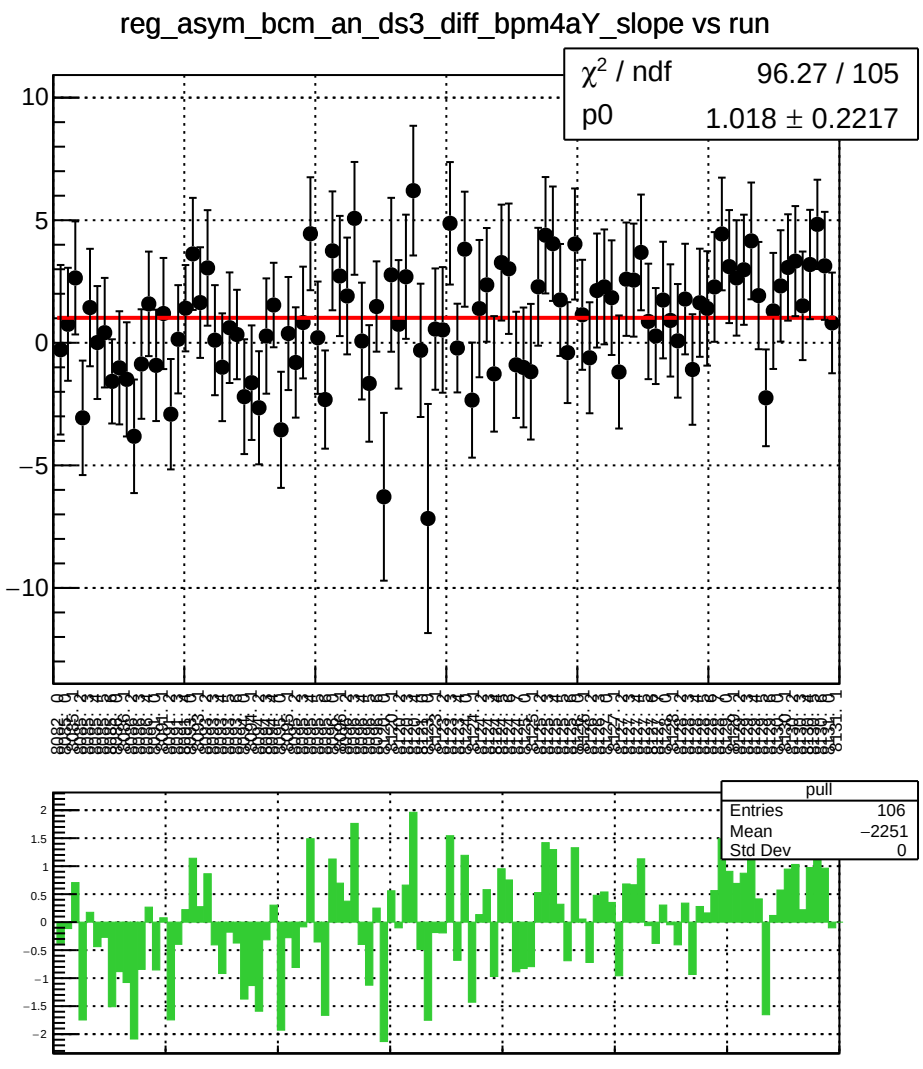

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 75.33 / 105
p0 6.192 ± 1.72
pull
Entries 106
Mean 421.9
Std Dev 0

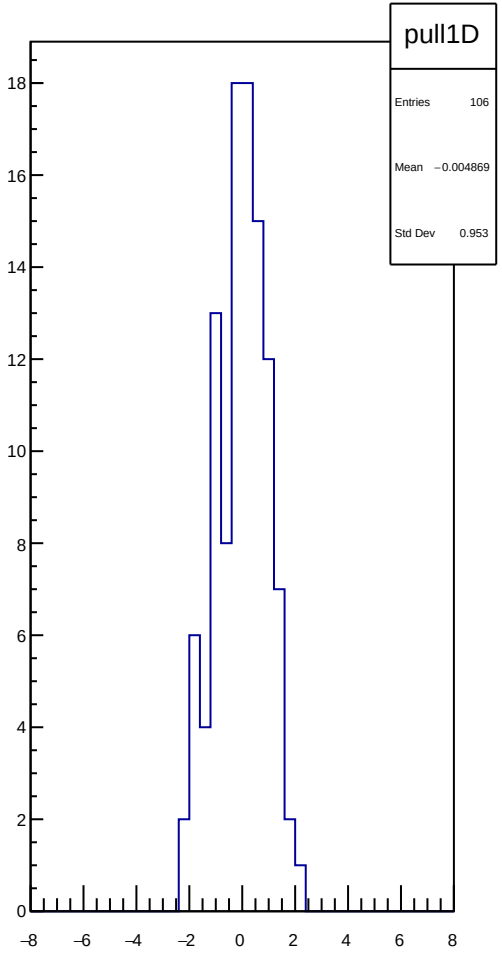

pull1D
Entries 106
Mean 0.005228
Std Dev 0.843

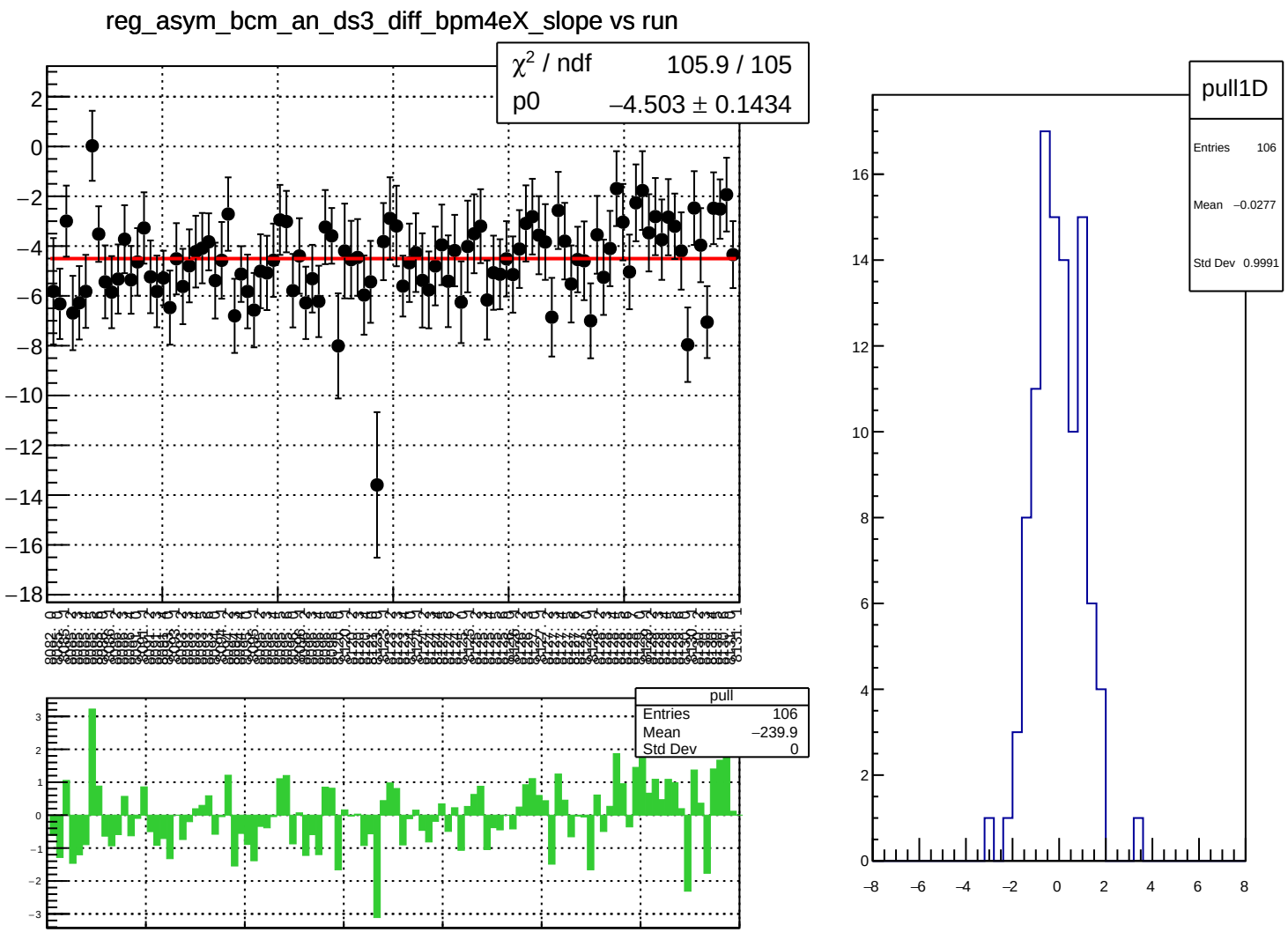

reg_asym_us_dd_atlr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 478.4 / 105
p0 −20.68 ± 0.06566
pull
Entries 106
Mean −1801
Std Dev 0

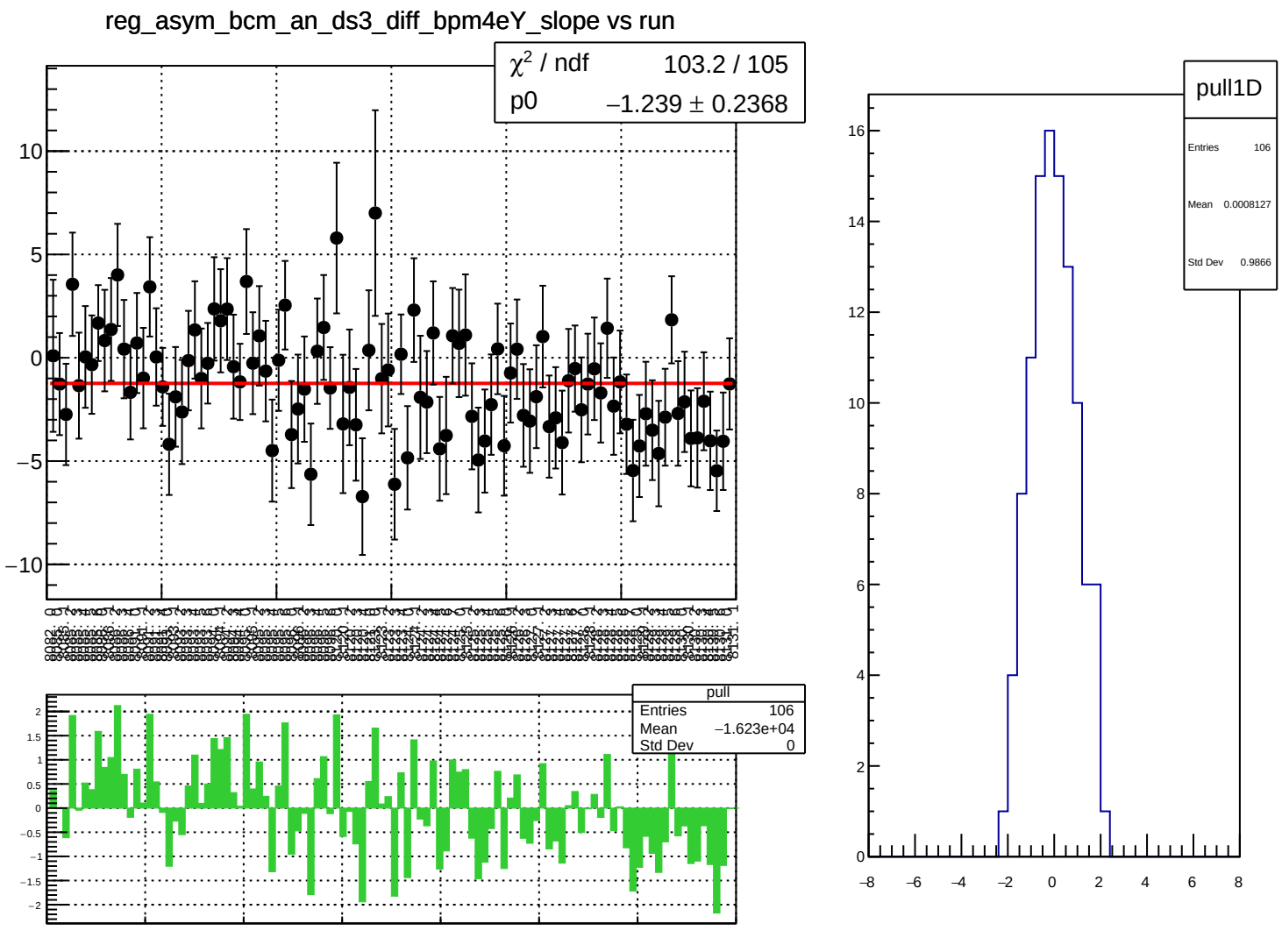

pull1D
Entries 106
Mean 0.02749
Std Dev 2.124

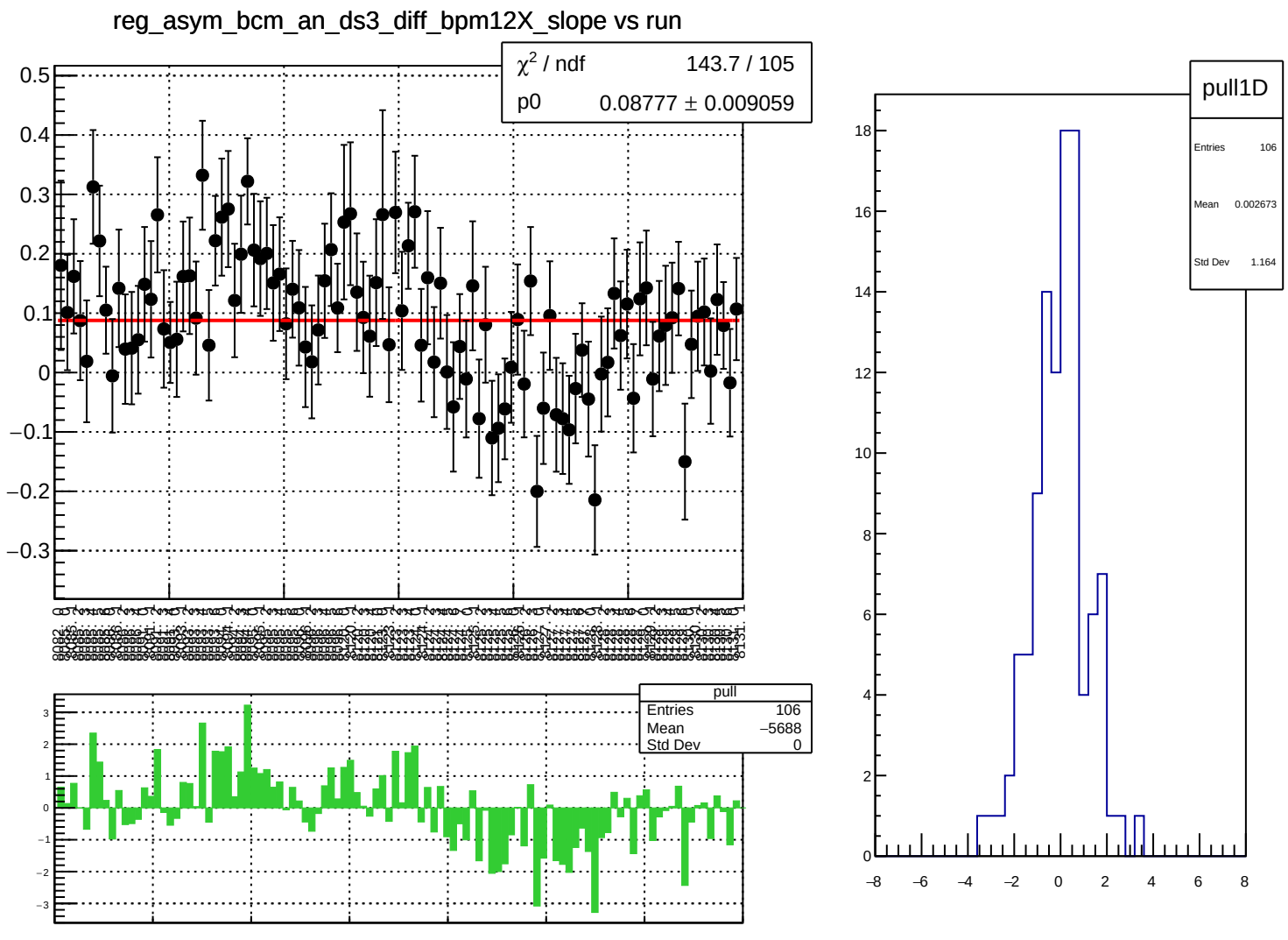

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 108.9 / 105
p0 4.918 ± 0.1509
pull
Entries 106
Mean −331.7
Std Dev 0
pull1D
Entries 106
Mean 0.02532
Std Dev 1.013

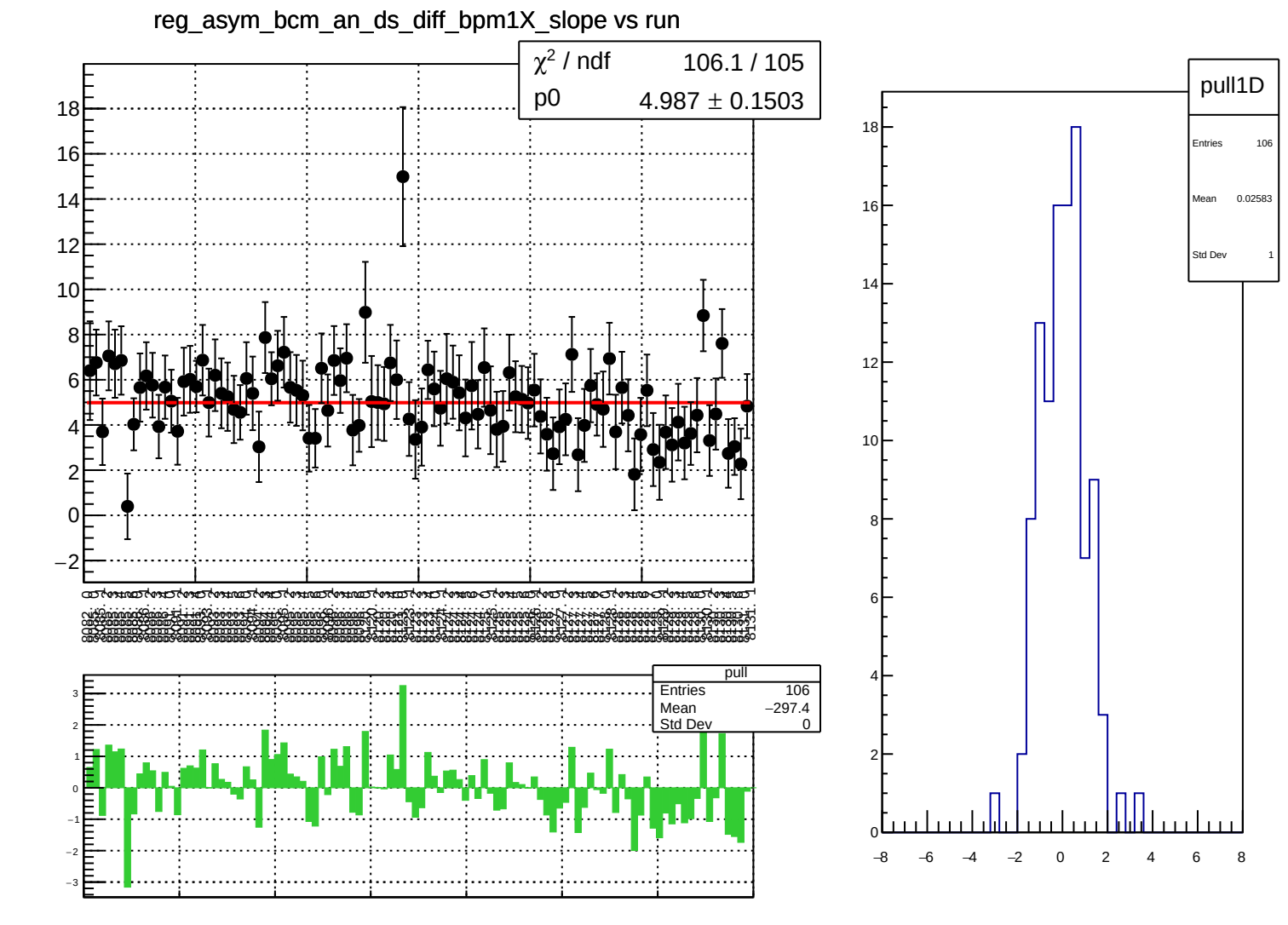

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 96.27 / 105
p0 1.018 ± 0.2217
pull
Entries 106
Mean −2251
Std Dev 0

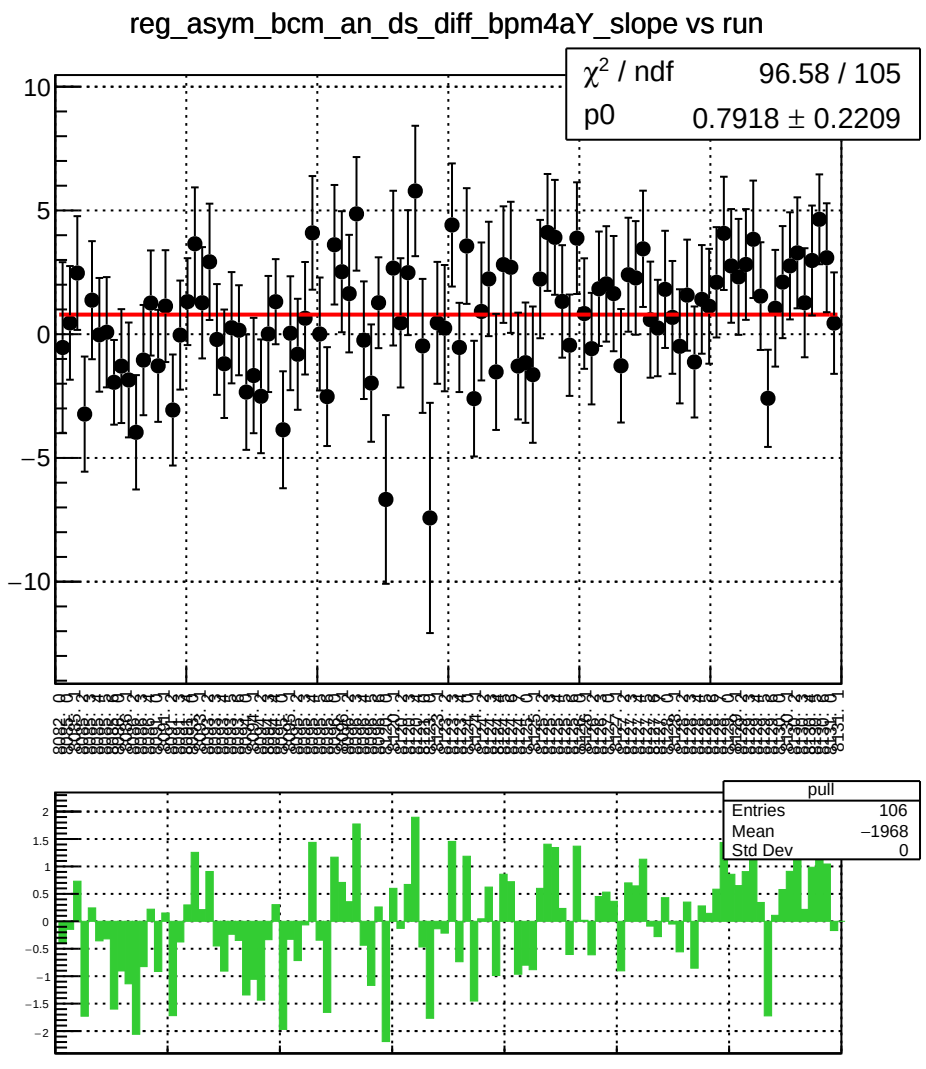

pull1D
Entries 106
Mean −0.004869
Std Dev 0.953

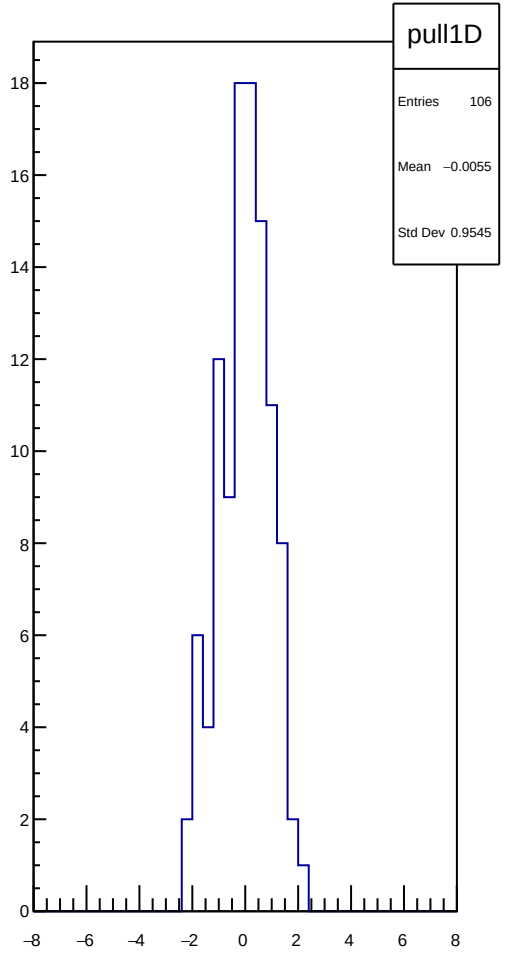

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 105.9 / 105
p0 −4.503 ± 0.1434
pull
Entries 106
Mean −239.9
Std Dev 0
pull1D
Entries 106
Mean −0.0277
Std Dev 0.9991

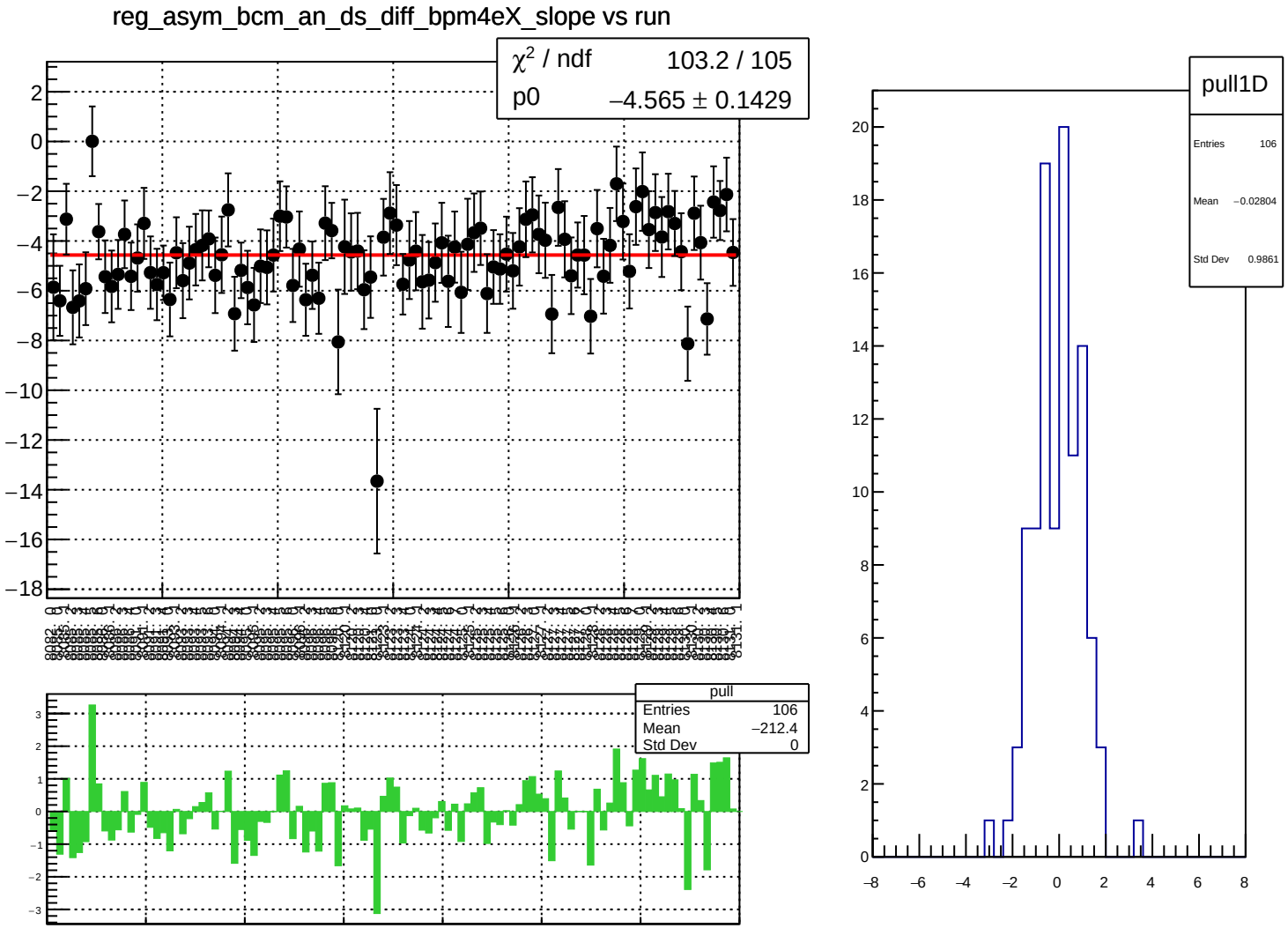

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 103.2 / 105
p0 −1.239 ± 0.2368
pull
Entries 106
Mean −1.623e+04
Std Dev 0
pull1D
Entries 106
Mean 0.0008127
Std Dev 0.9866

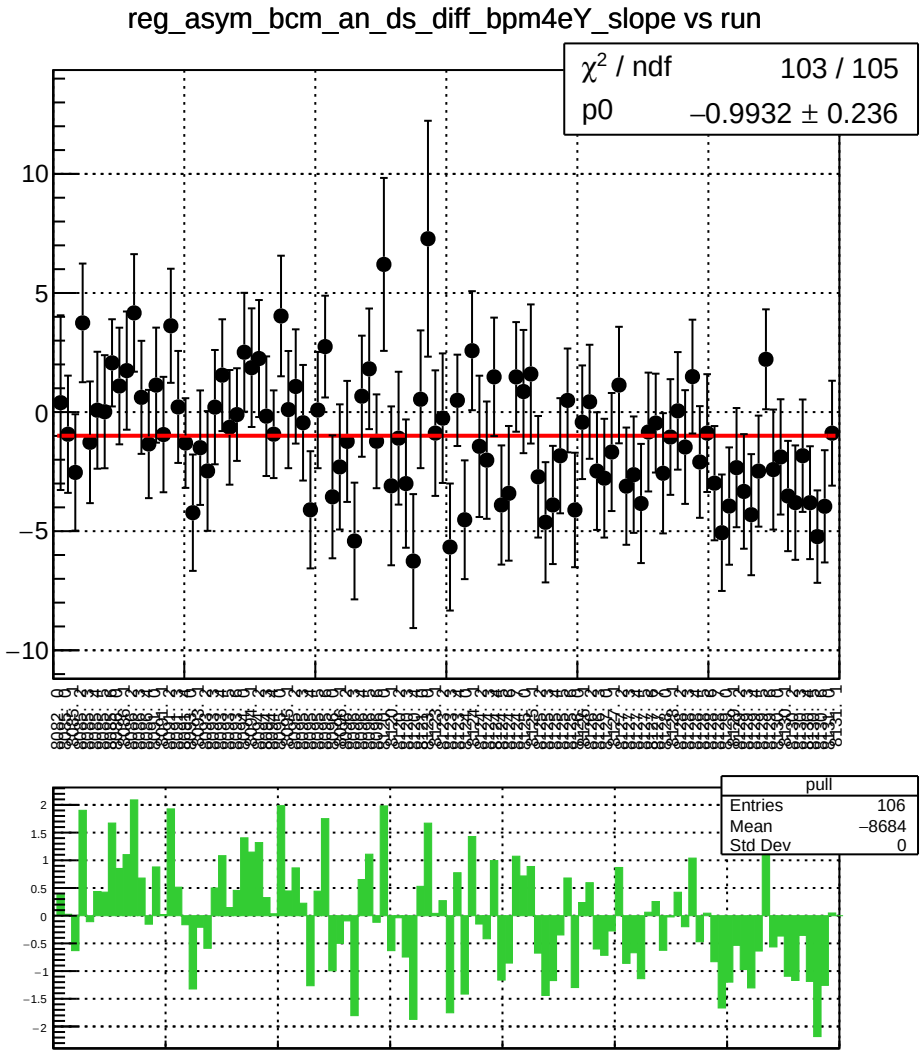

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 143.7 / 105
p0 0.08777 ± 0.009059
pull
Entries 106
Mean −5688
Std Dev 0
pull1D
Entries 106
Mean 0.002673
Std Dev 1.164

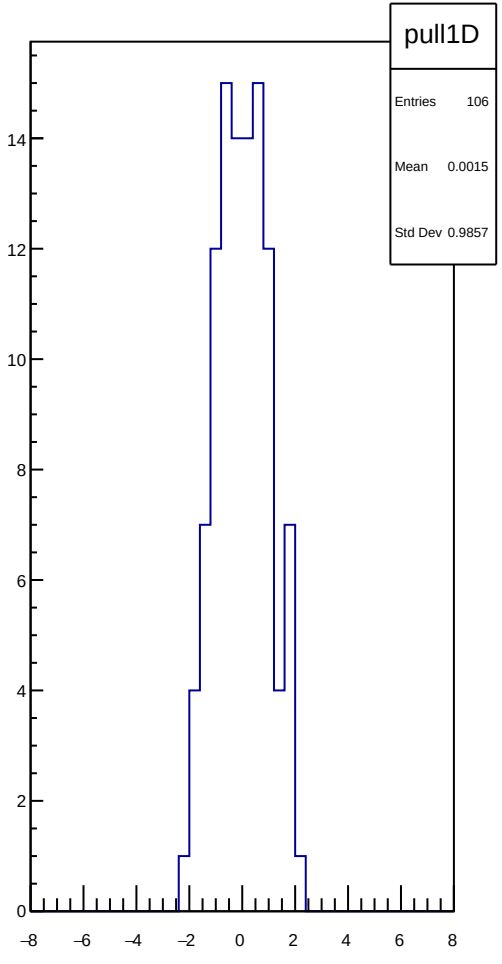

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 106.1 / 105
p0 4.987 ± 0.1503
pull
Entries 106
Mean −297.4
Std Dev 0
pull1D
Entries 106
Mean 0.02583
Std Dev 1

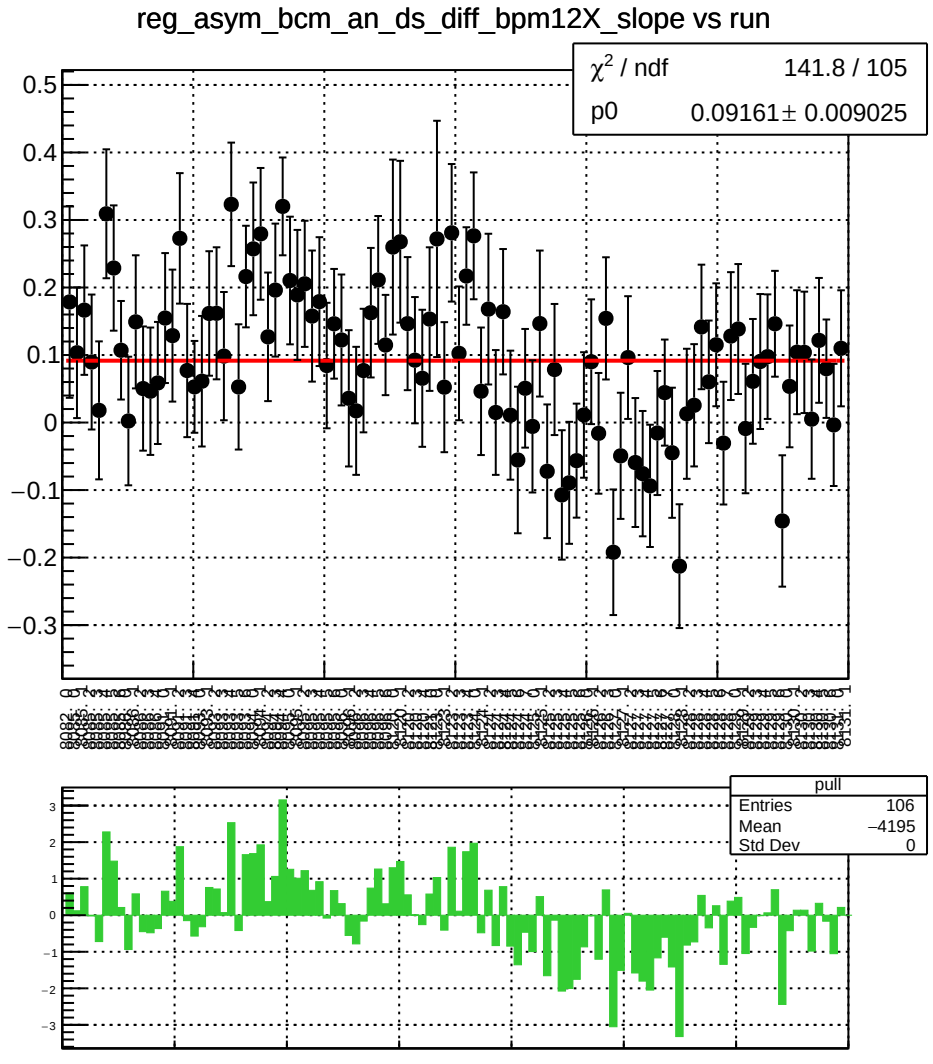

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 96.58 / 105
p0 0.7918 ± 0.2209
pull
Entries 106
Mean −1968
Std Dev 0

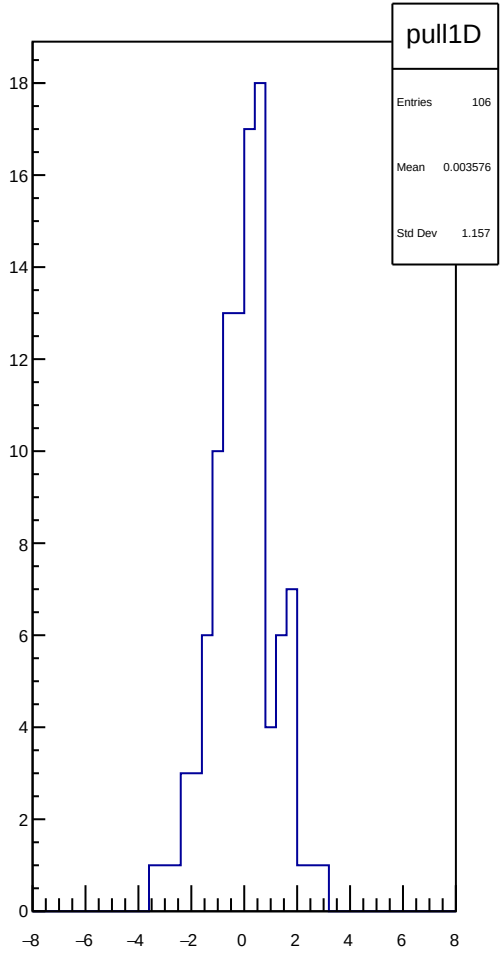

pull1D
Entries 106
Mean −0.0055
Std Dev 0.9545

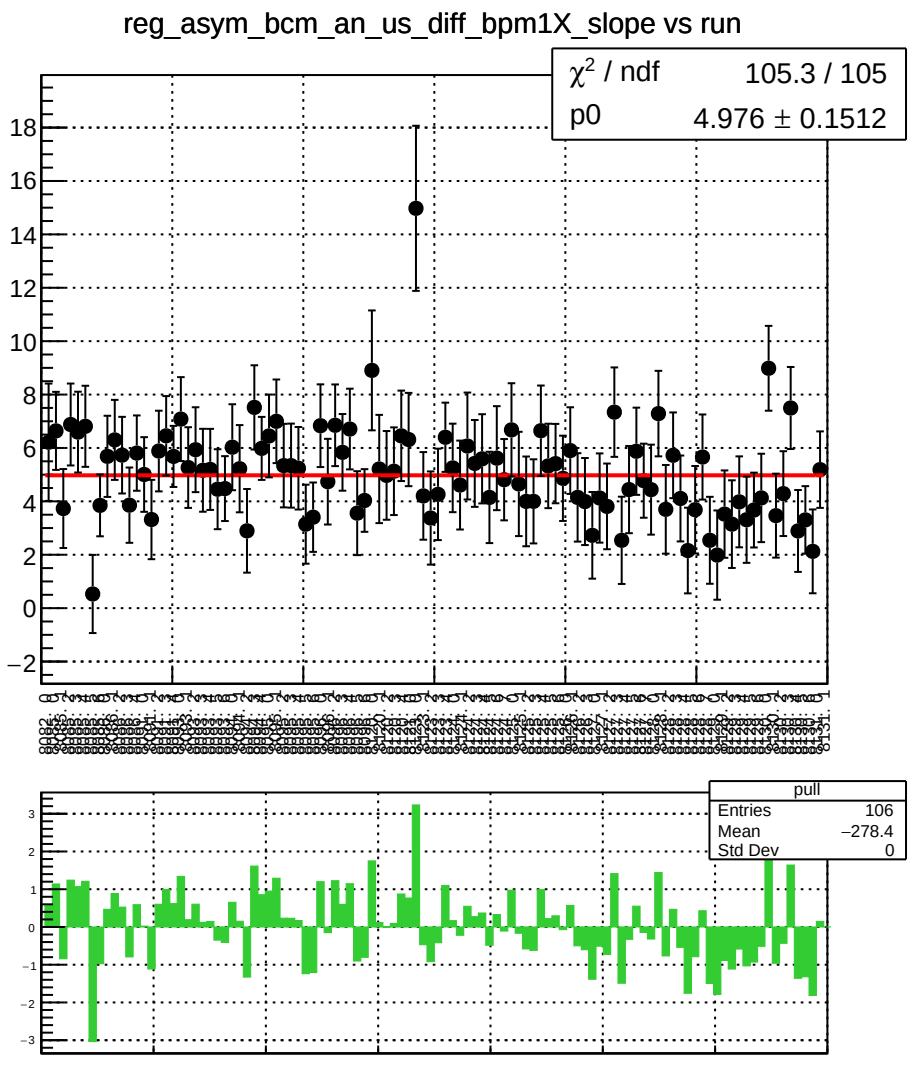

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 103.2 / 105
p0 −4.565 ± 0.1429
pull
Entries 106
Mean −212.4
Std Dev 0
pull1D
Entries 106
Mean −0.02804
Std Dev 0.9861

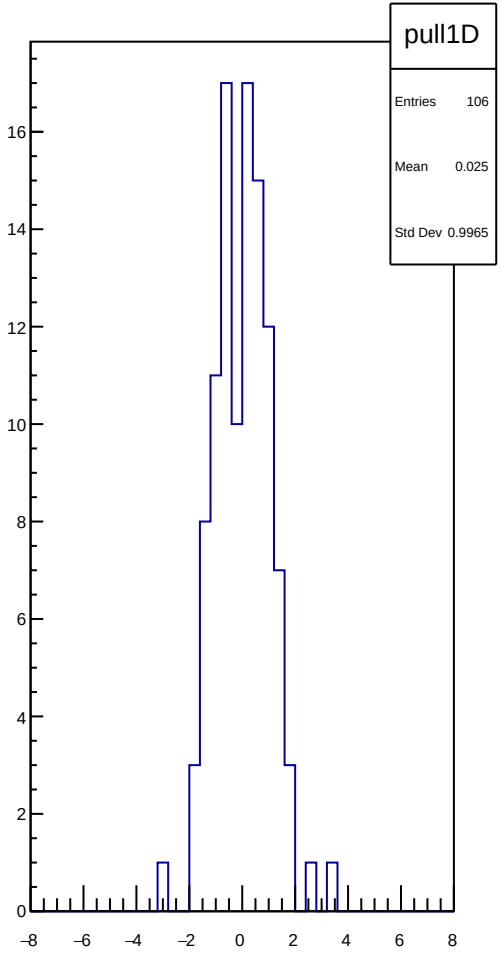

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 103 / 105
p0 −0.9932 ± 0.236
pull
Entries 106
Mean −8684
Std Dev 0

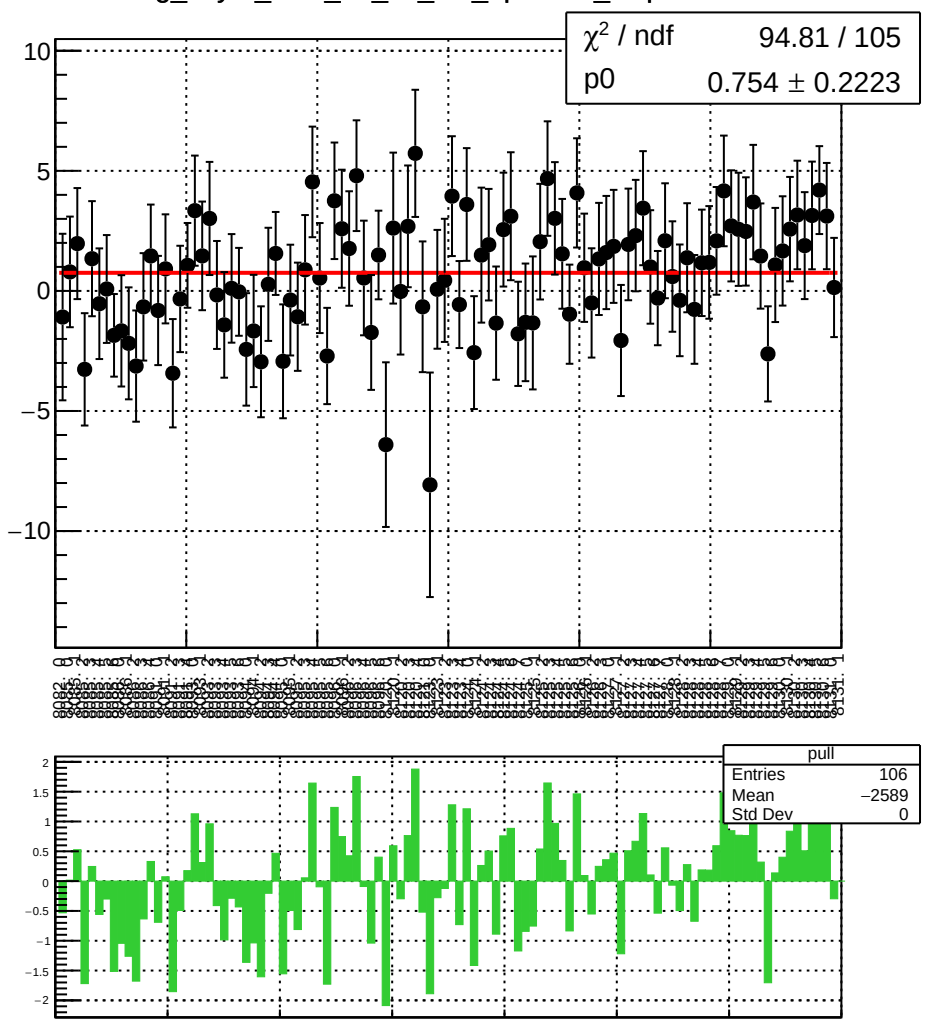

pull1D
Entries 106
Mean 0.0015
Std Dev 0.9857

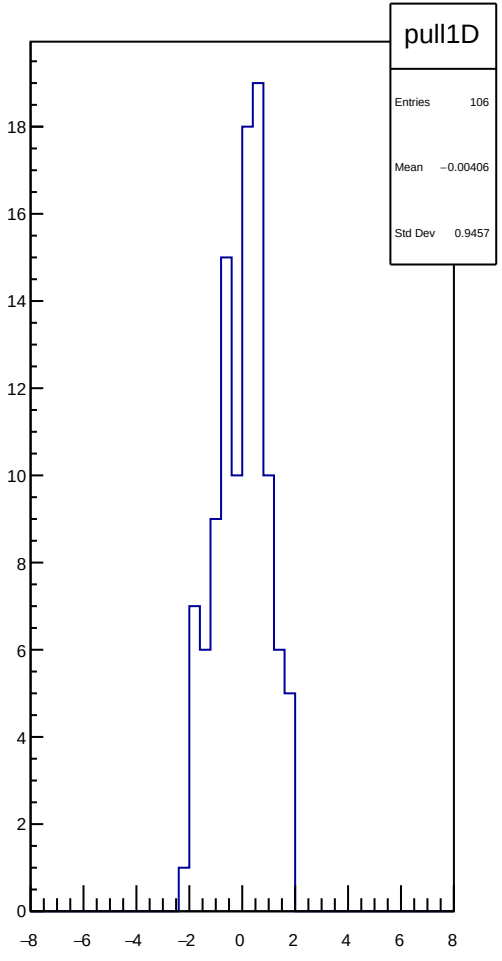

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 141.8 / 105
p0 0.09161± 0.009025
pull
Entries 106
Mean −4195
Std Dev 0

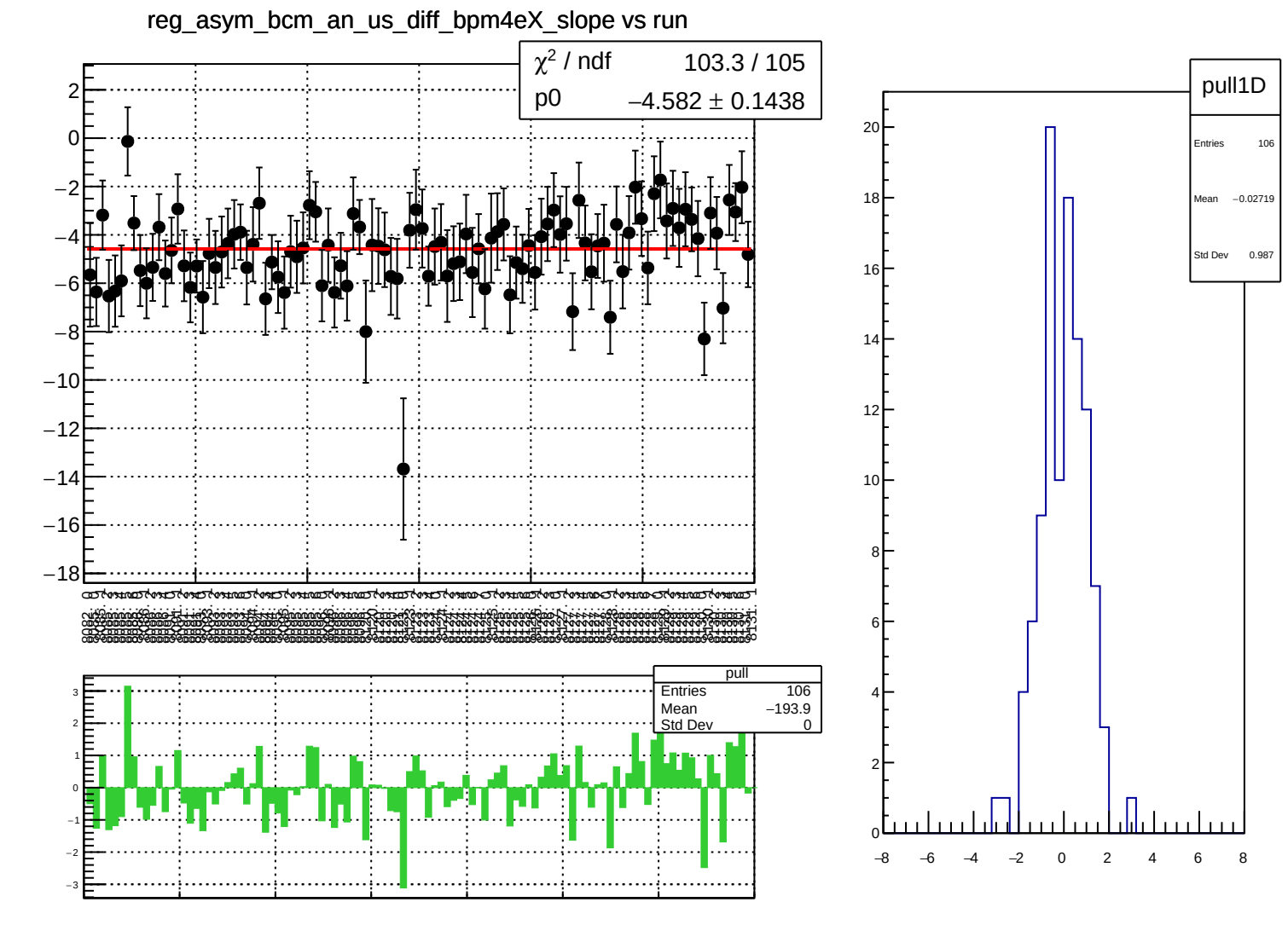

pull1D
Entries 106
Mean 0.003576
Std Dev 1.157

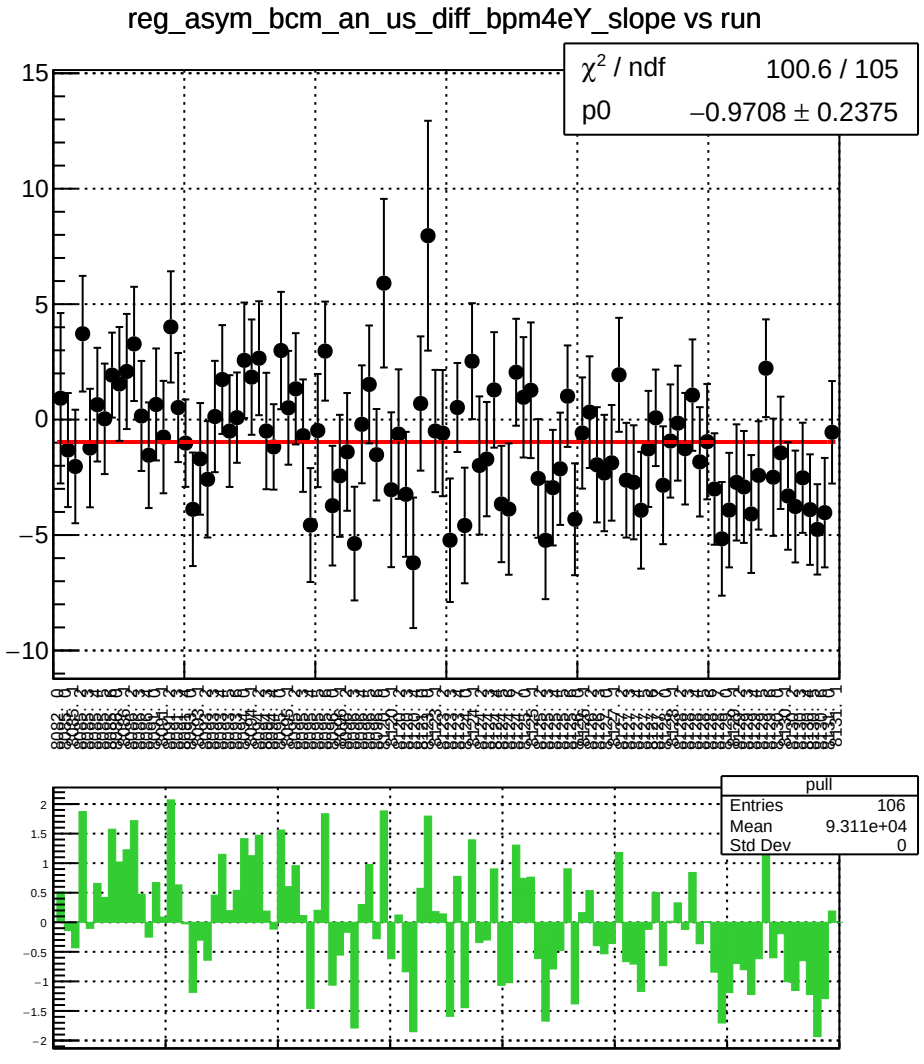

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 105.3 / 105
p0 4.976 ± 0.1512
pull
Entries 106
Mean −278.4
Std Dev 0

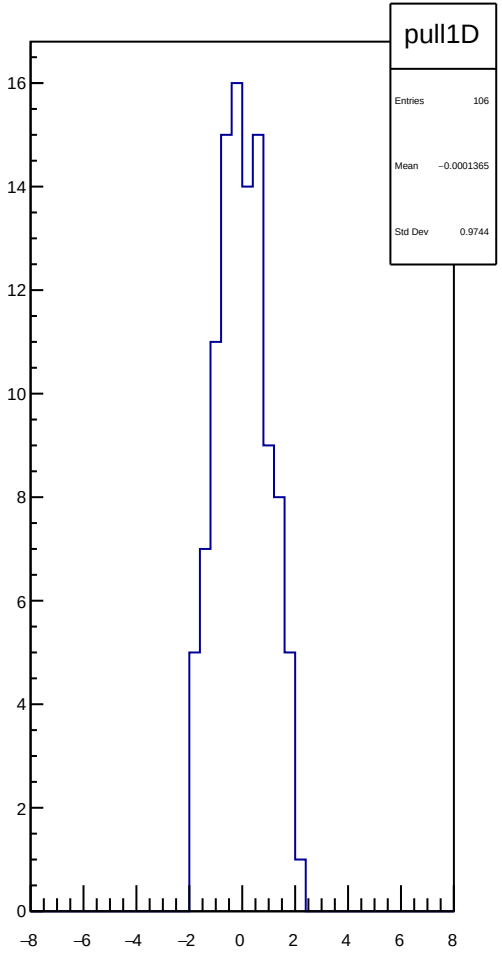

pull1D
Entries 106
Mean 0.025
Std Dev 0.9965

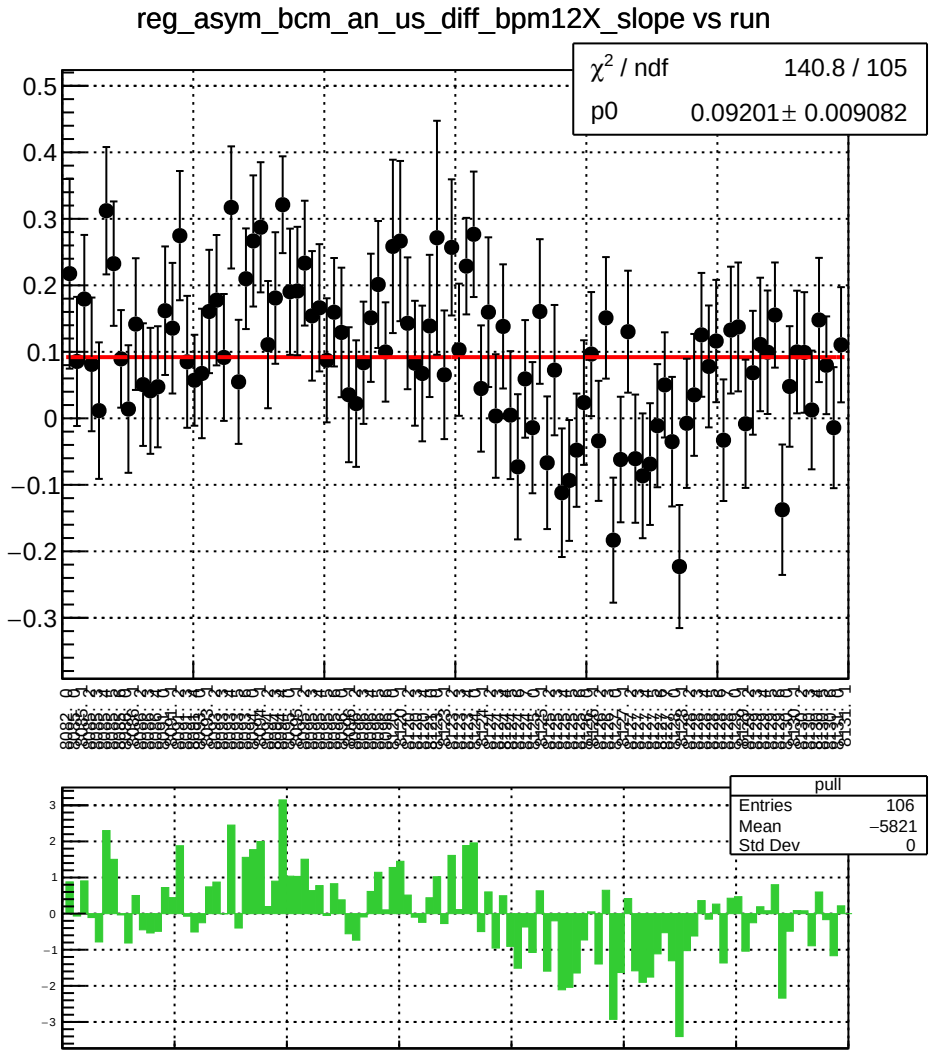

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 94.81 / 105
p0 0.754 ± 0.2223
pull
Entries 106
Mean −2589
Std Dev 0

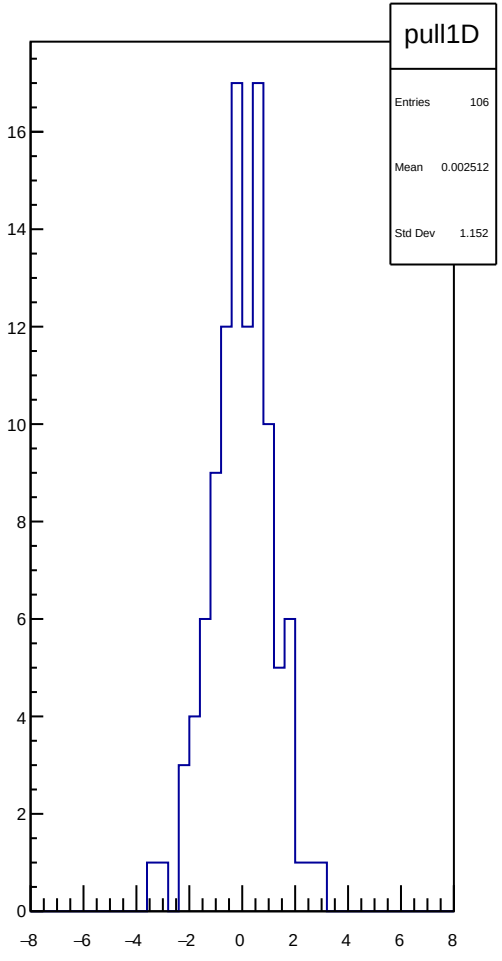

pull1D
Entries 106
Mean −0.00406
Std Dev 0.9457

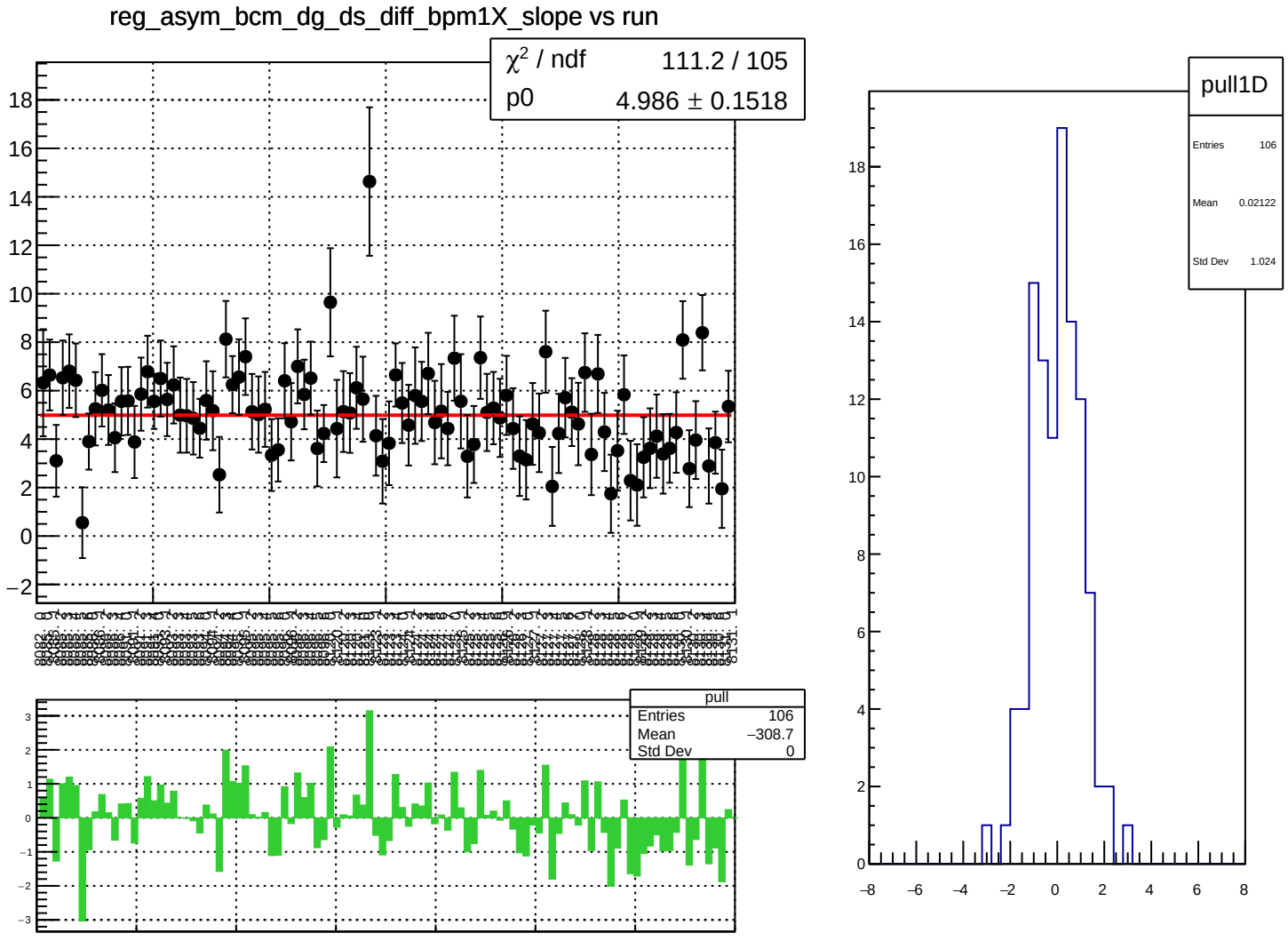

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 103.3 / 105
p0 −4.582 ± 0.1438
pull
Entries 106
Mean −193.9
Std Dev 0
pull1D
Entries 106
Mean −0.02719
Std Dev 0.987

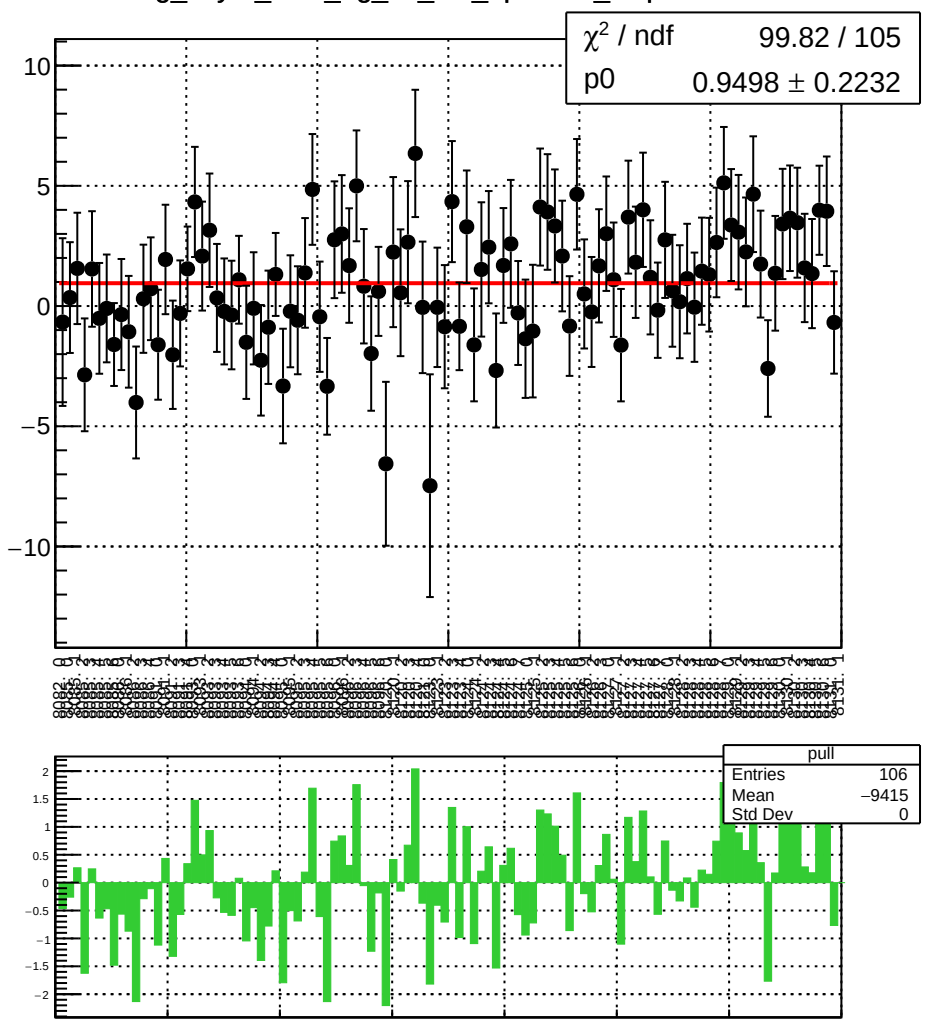

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 100.6 / 105
p0 −0.9708 ± 0.2375
pull
Entries 106
Mean 9.311e+04
Std Dev 0

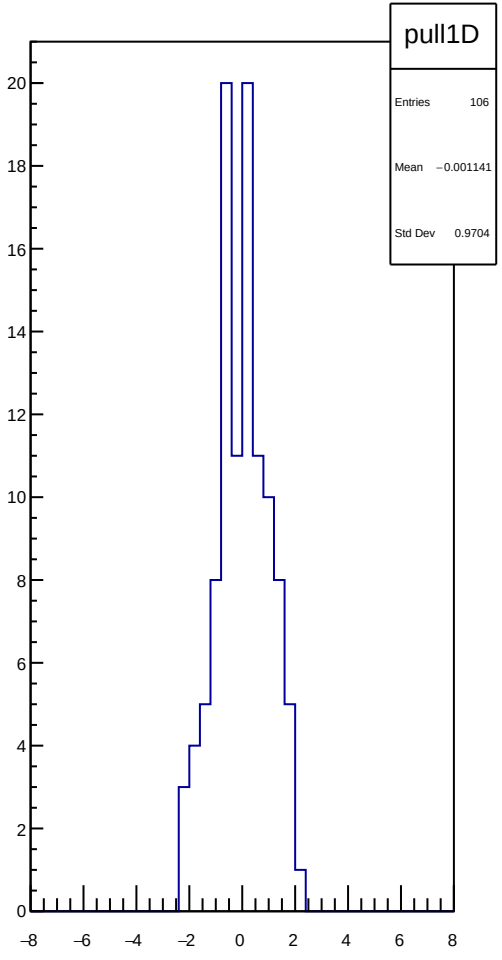

pull1D
Entries 106
Mean −0.0001365
Std Dev 0.9744

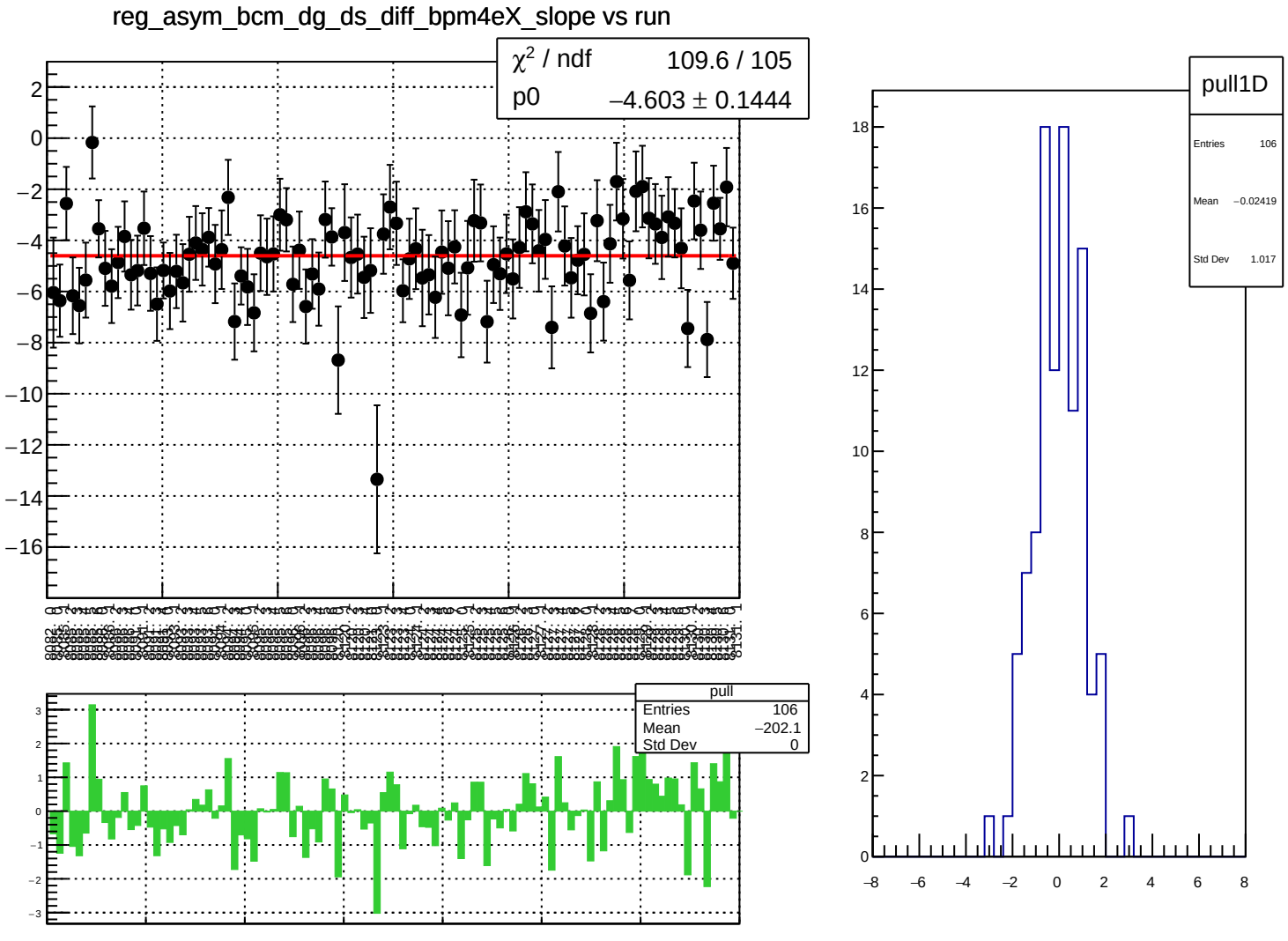

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 140.8 / 105
p0 0.09201± 0.009082
pull
Entries 106
Mean −5821
Std Dev 0

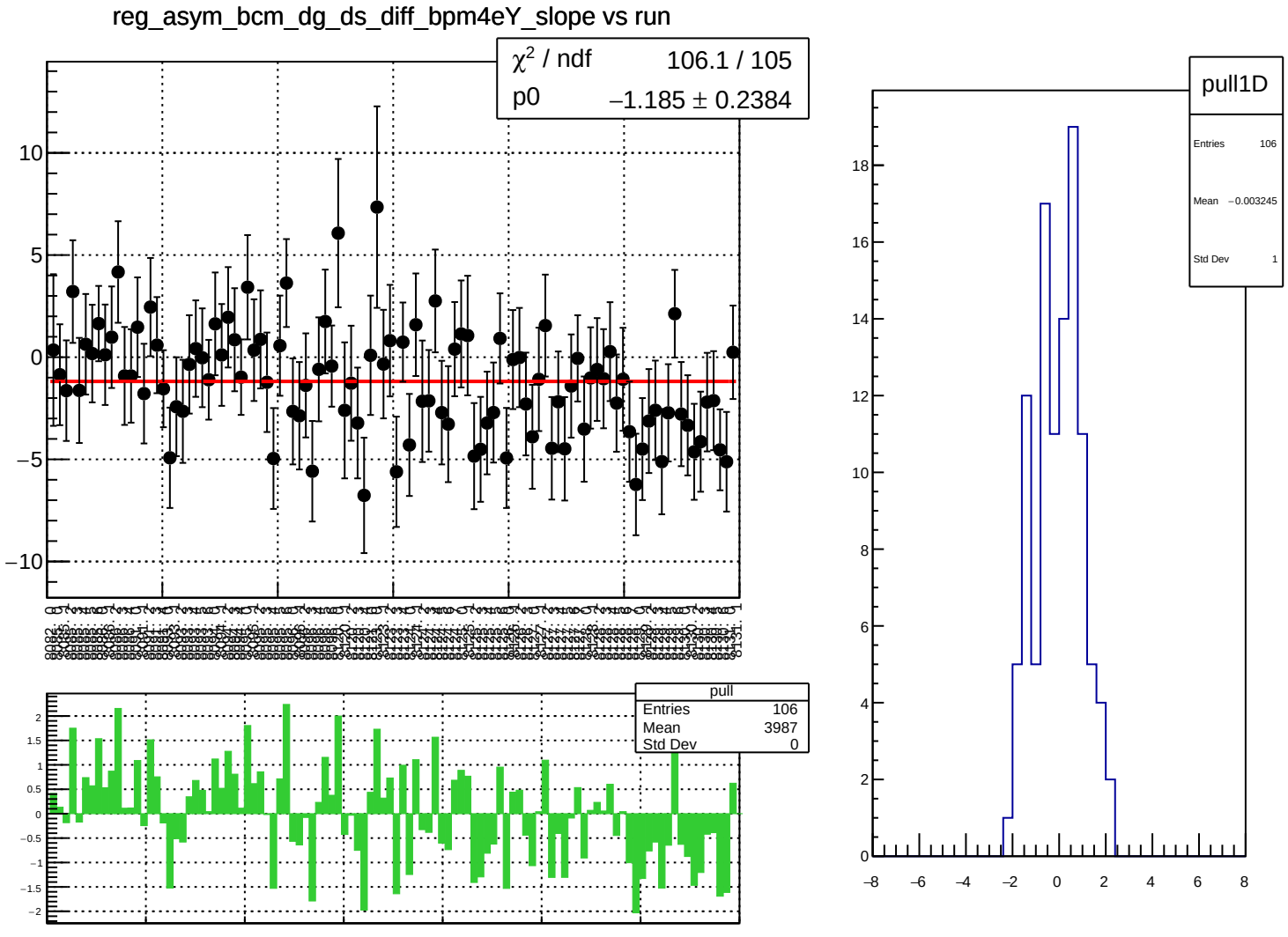

pull1D
Entries 106
Mean 0.002512
Std Dev 1.152

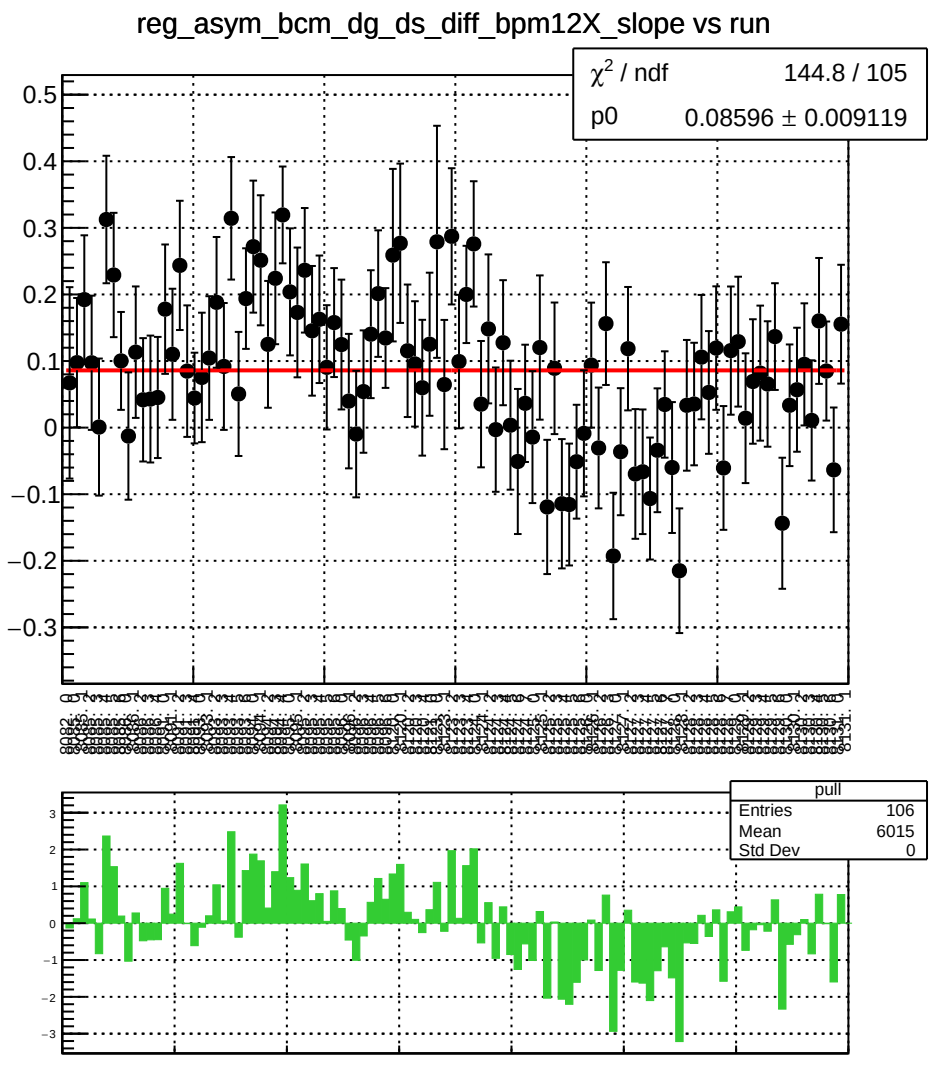

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 111.2 / 105
p0 4.986 ± 0.1518
pull
Entries 106
Mean −308.7
Std Dev 0
pull1D
Entries 106
Mean 0.02122
Std Dev 1.024

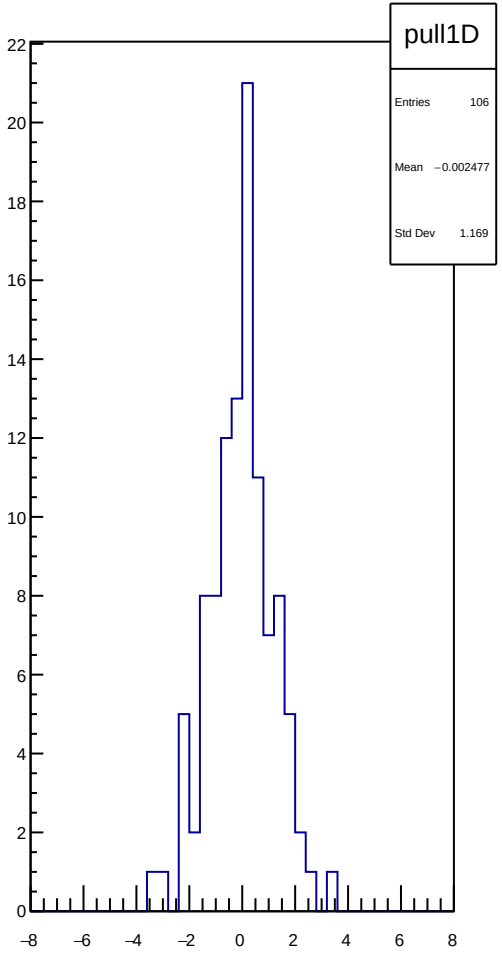

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 99.82 / 105
p0 0.9498 ± 0.2232
pull
Entries 106
Mean −9415
Std Dev 0

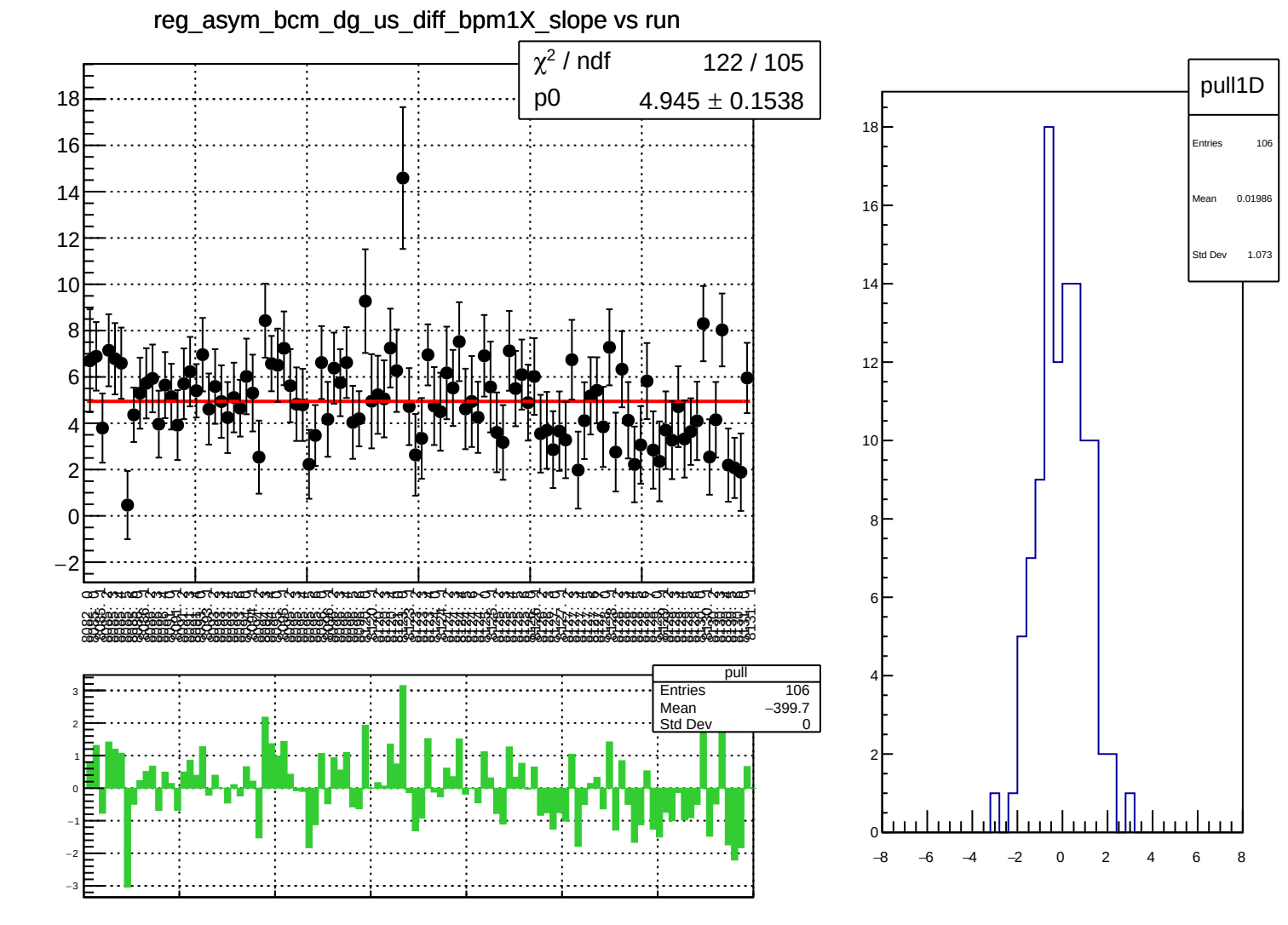

pull1D
Entries 106
Mean −0.001141
Std Dev 0.9704

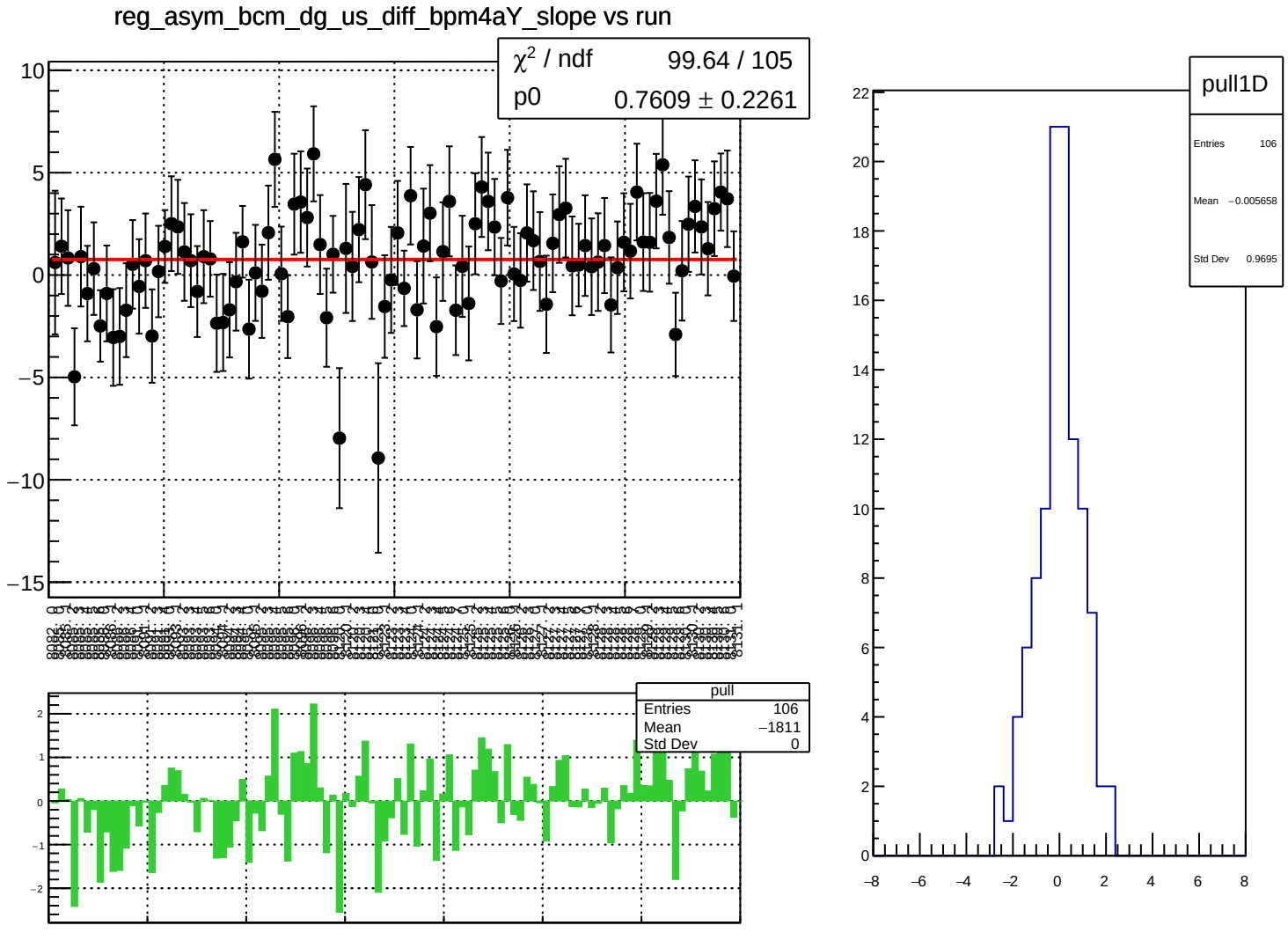

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 109.6 / 105
p0 −4.603 ± 0.1444
pull
Entries 106
Mean −202.1
Std Dev 0
pull1D
Entries 106
Mean −0.02419
Std Dev 1.017

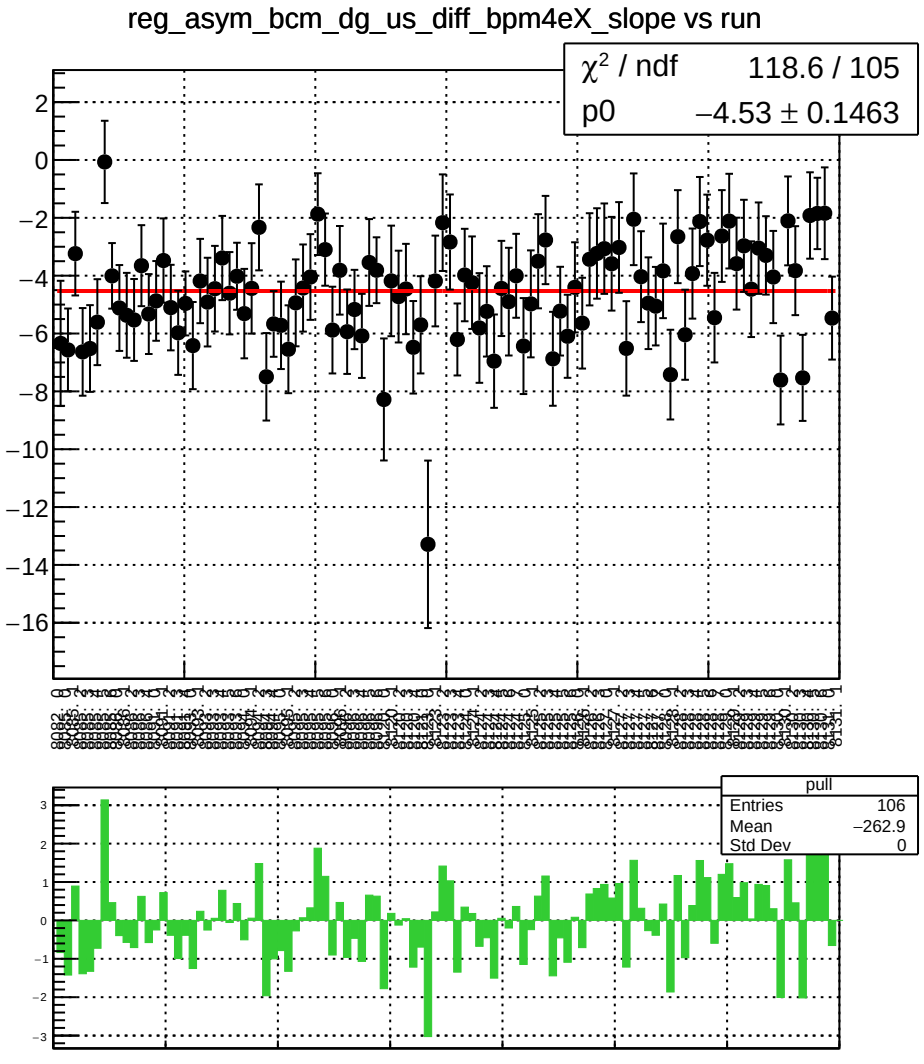

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 106.1 / 105
p0 −1.185 ± 0.2384
pull
Entries 106
Mean 3987
Std Dev 0
pull1D
Entries 106
Mean −0.003245
Std Dev 1

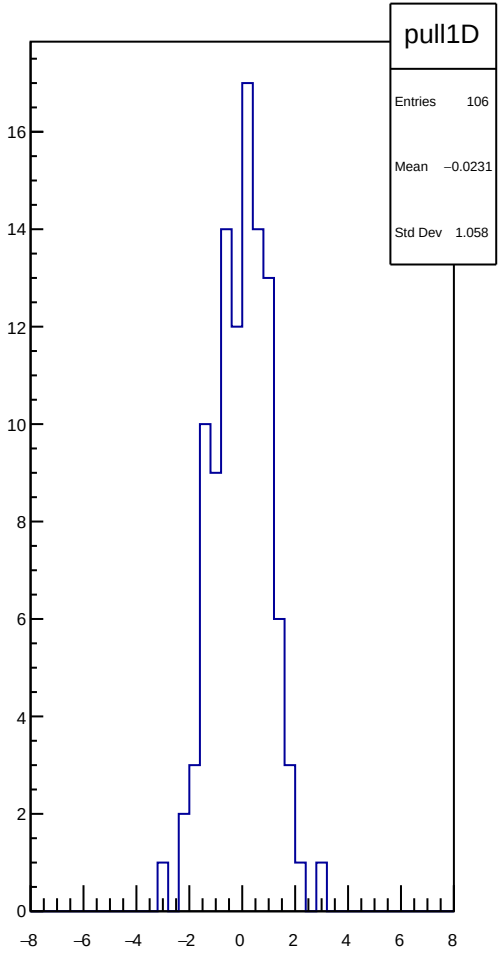

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 144.8 / 105
p0 0.08596 ± 0.009119
pull
Entries 106
Mean 6015
Std Dev 0

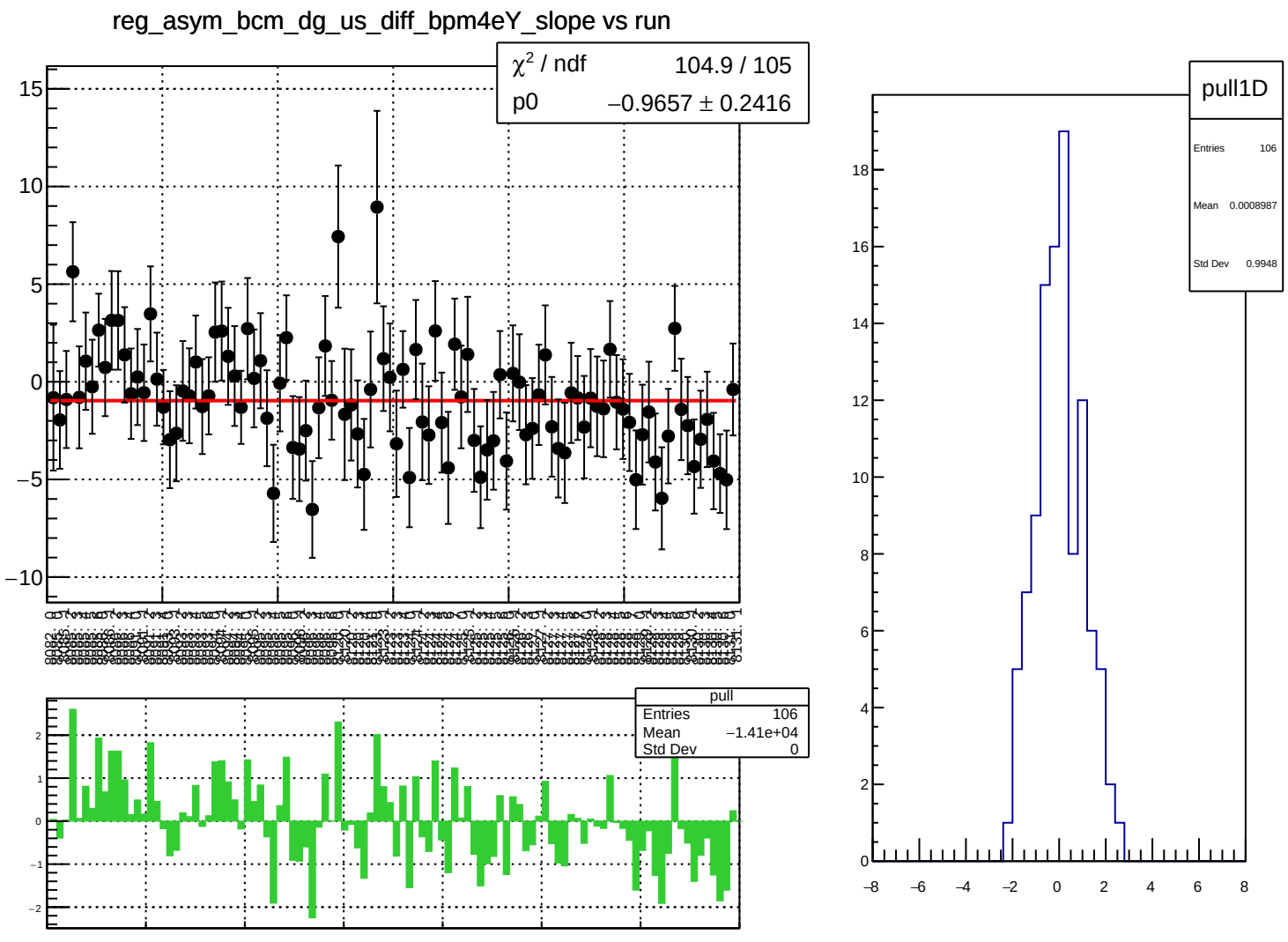

pull1D
Entries 106
Mean −0.002477
Std Dev 1.169

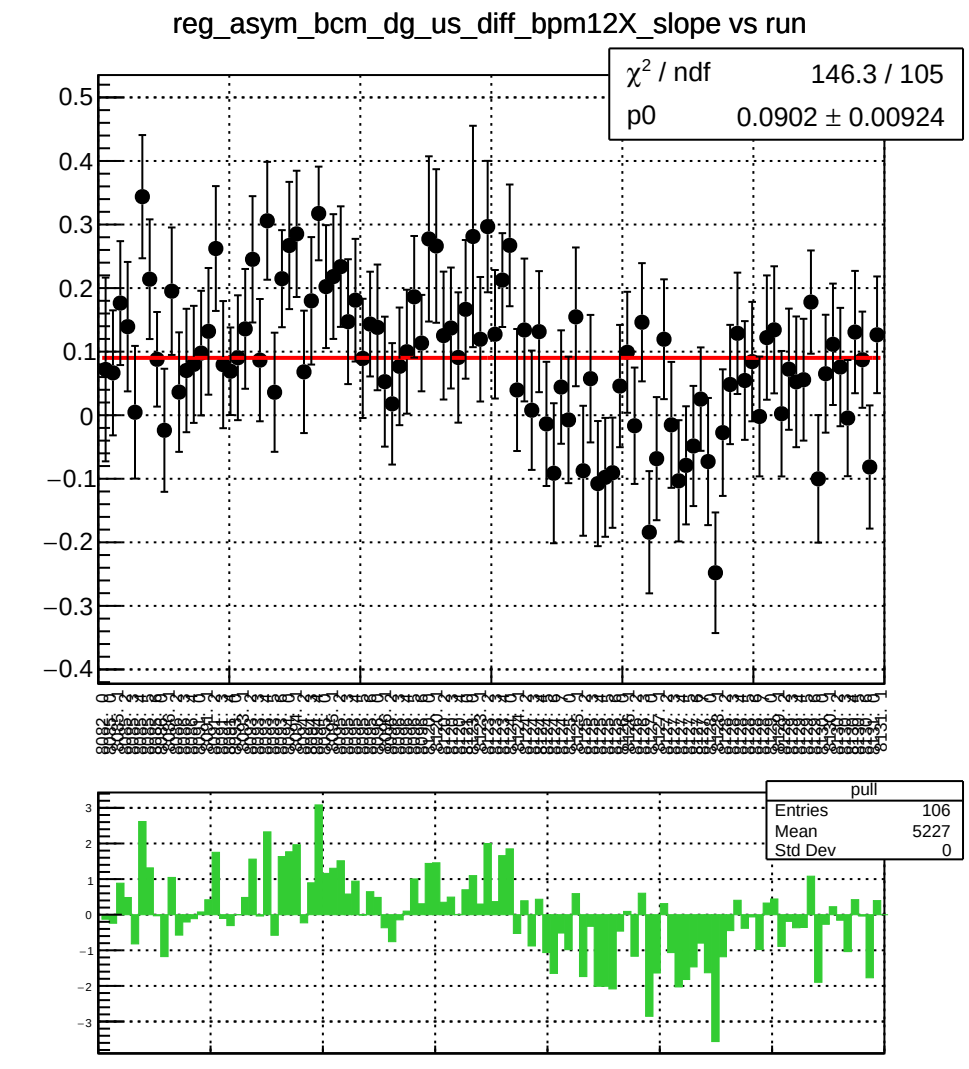

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 122 / 105
p0 4.945 ± 0.1538
pull
Entries 106
Mean −399.7
Std Dev 0
pull1D
Entries 106
Mean 0.01986
Std Dev 1.073

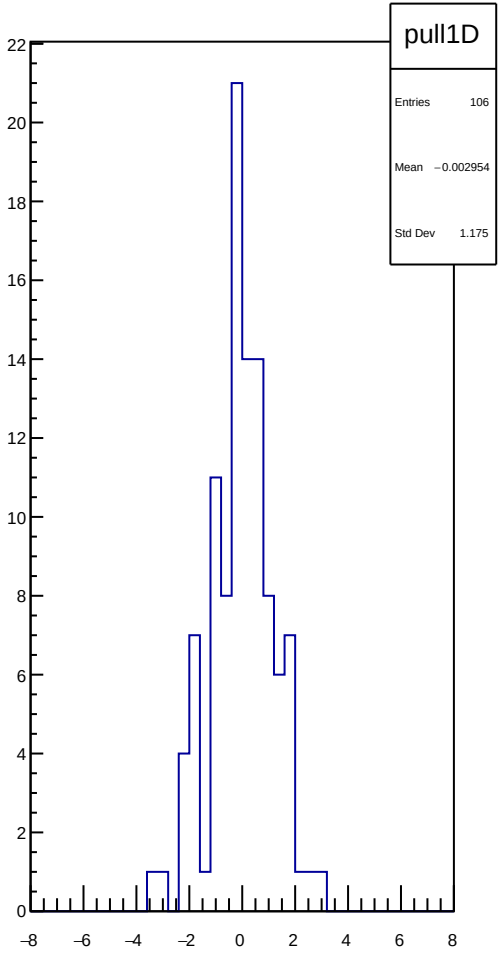

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 99.64 / 105
p0 0.7609 ± 0.2261
pull
Entries 106
Mean −1811
Std Dev 0
pull1D
Entries 106
Mean −0.005658
Std Dev 0.9695

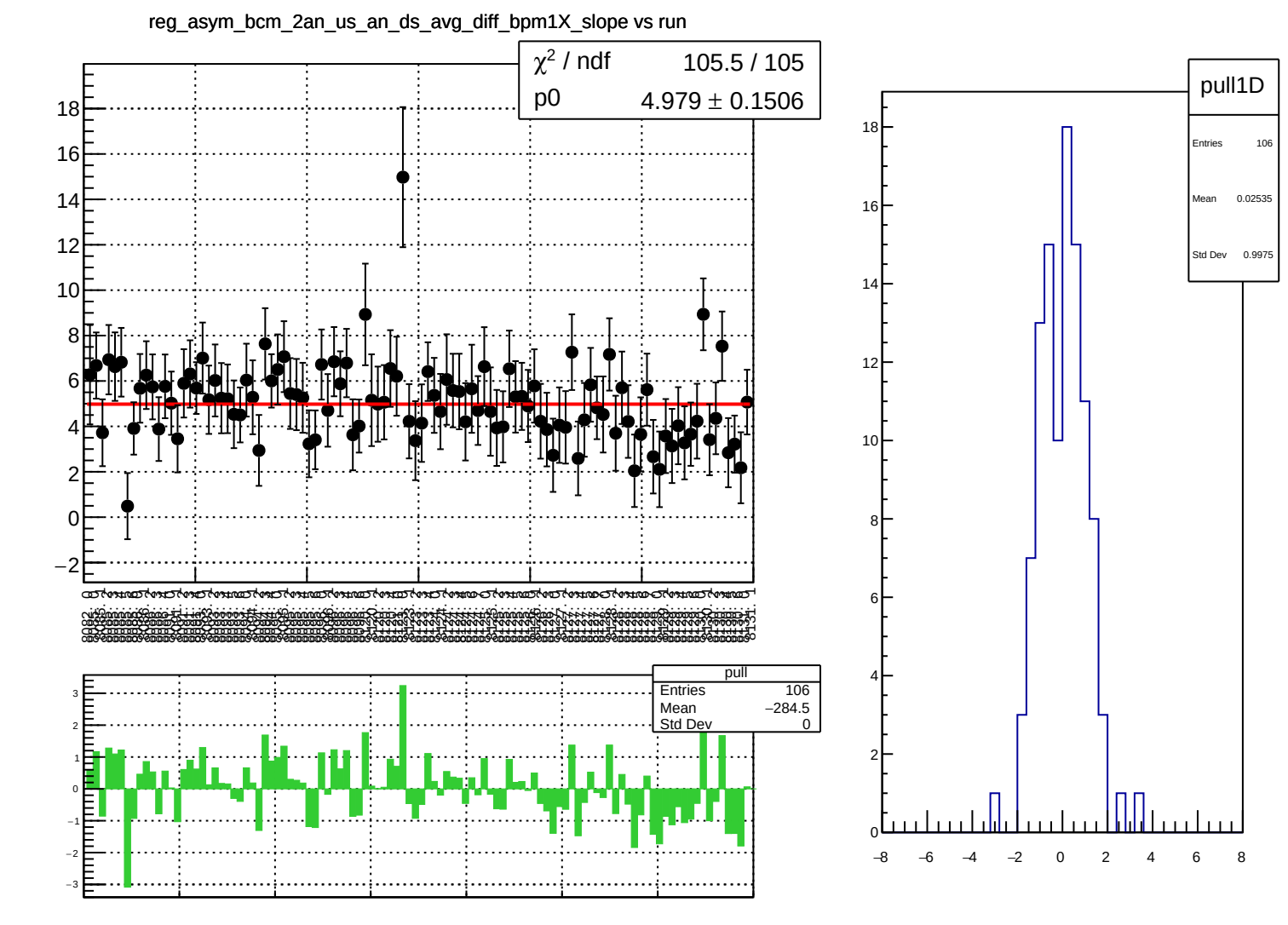

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 118.6 / 105
p0 −4.53 ± 0.1463
pull
Entries 106
Mean −262.9
Std Dev 0

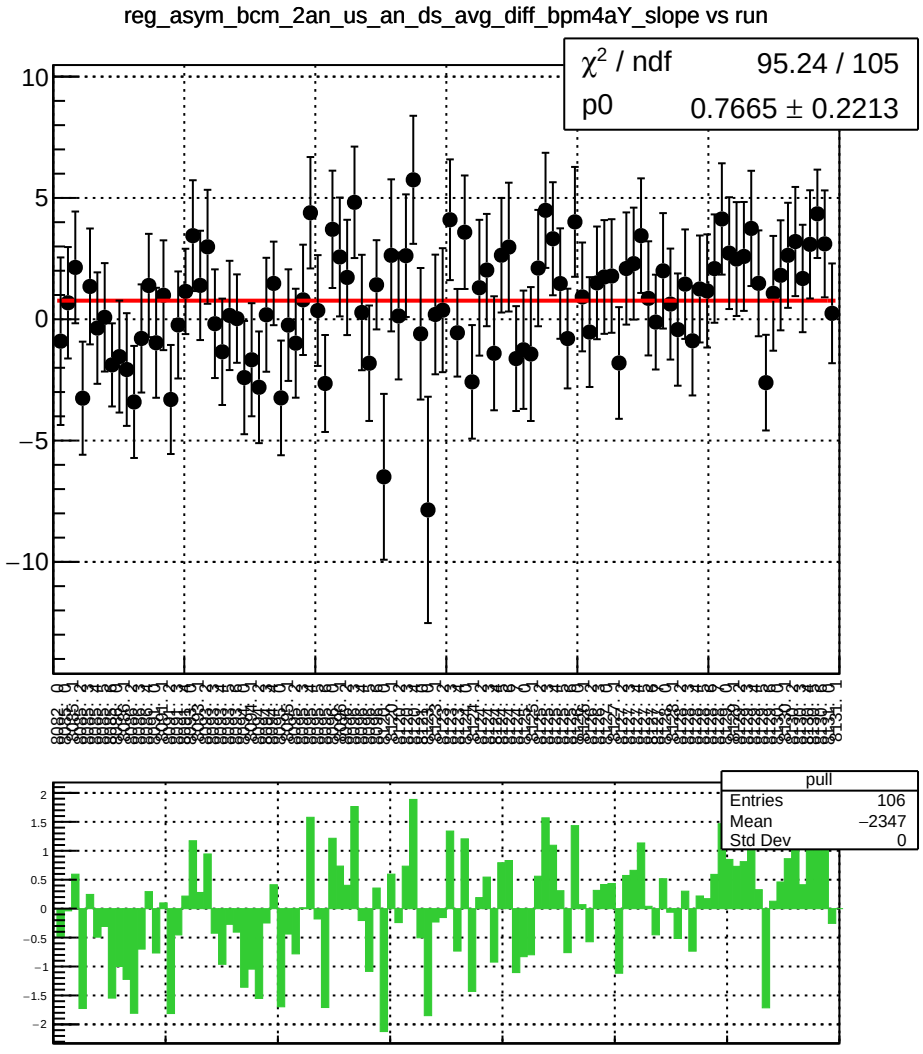

pull1D
Entries 106
Mean −0.0231
Std Dev 1.058

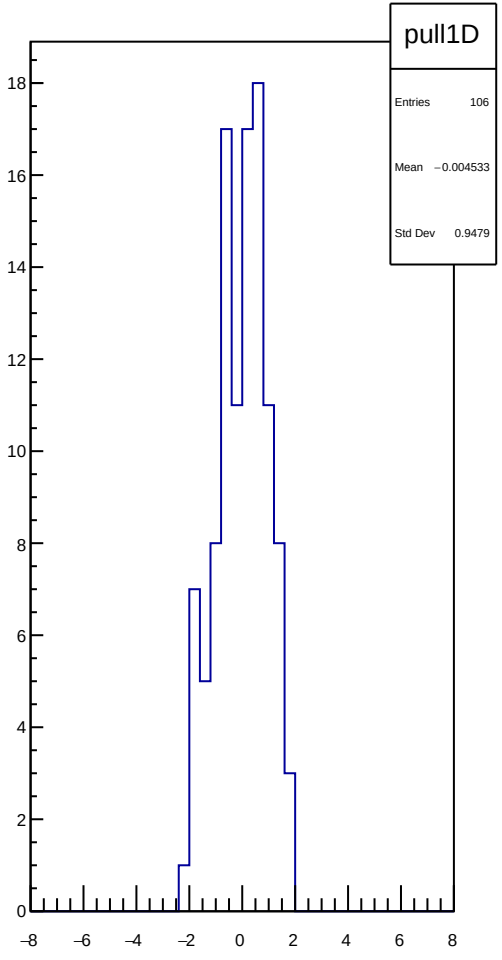

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 104.9 / 105
p0 −0.9657 ± 0.2416
15
10
5
0
−5
−10
pull
Entries 106
Mean −1.41e+04
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 106
Mean 0.0008987
Std Dev 0.9948
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

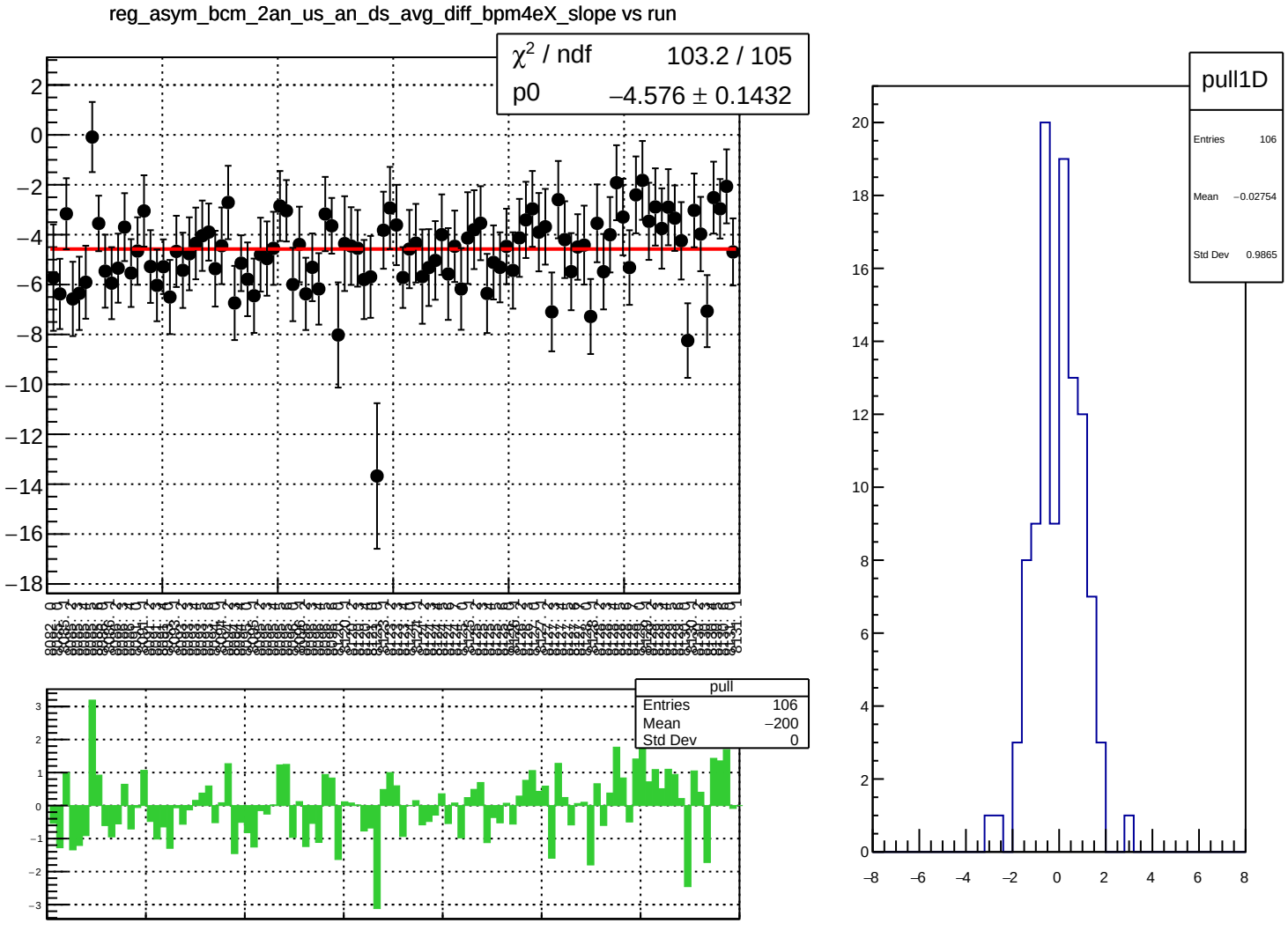

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 146.3 / 105
p0 0.0902 ± 0.00924
pull
Entries 106
Mean 5227
Std Dev 0

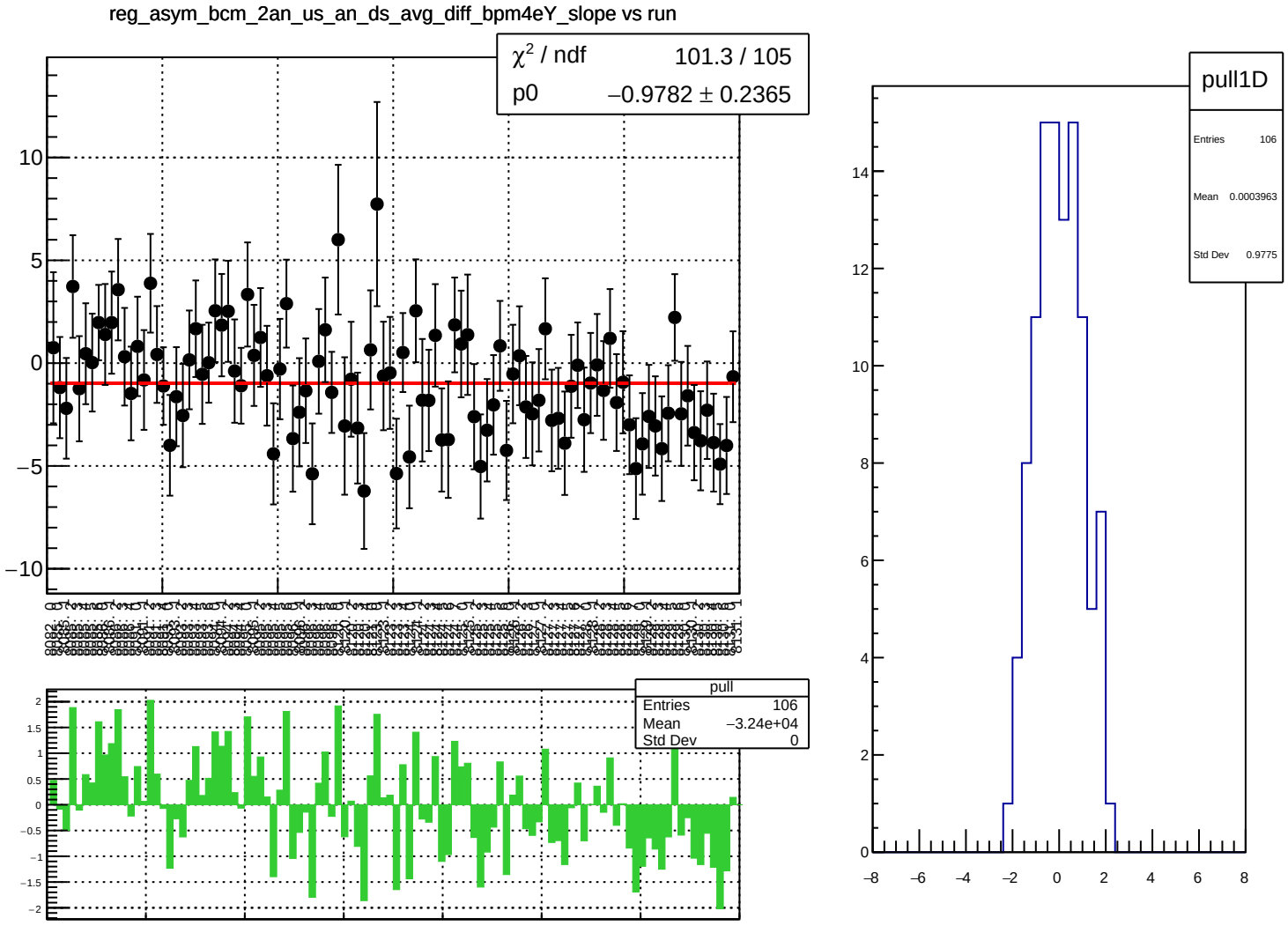

pull1D
Entries 106
Mean −0.002954
Std Dev 1.175

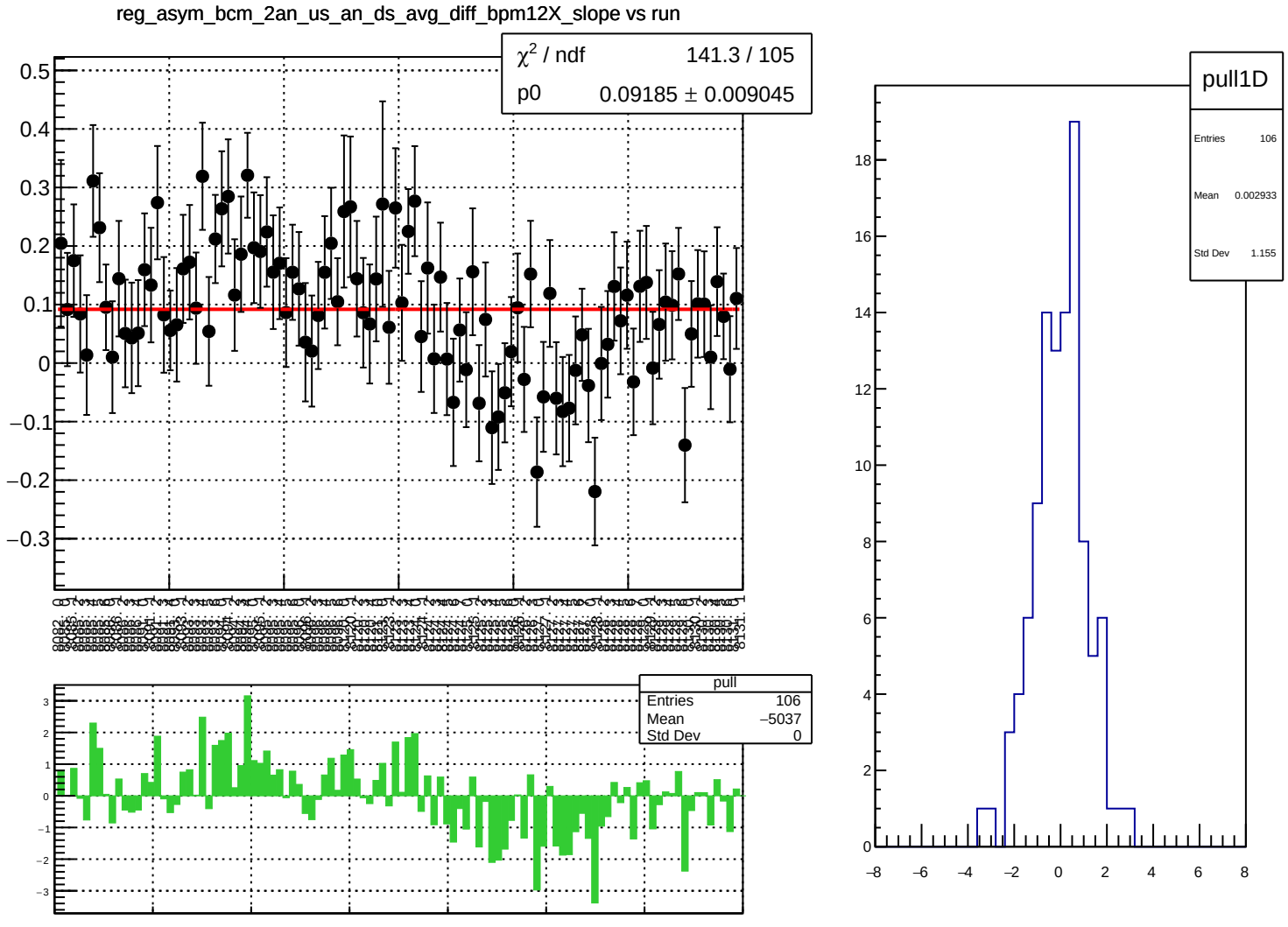

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 105.5 / 105
p0 4.979 ± 0.1506
pull
Entries 106
Mean −284.5
Std Dev 0
pull1D
Entries 106
Mean 0.02535
Std Dev 0.9975

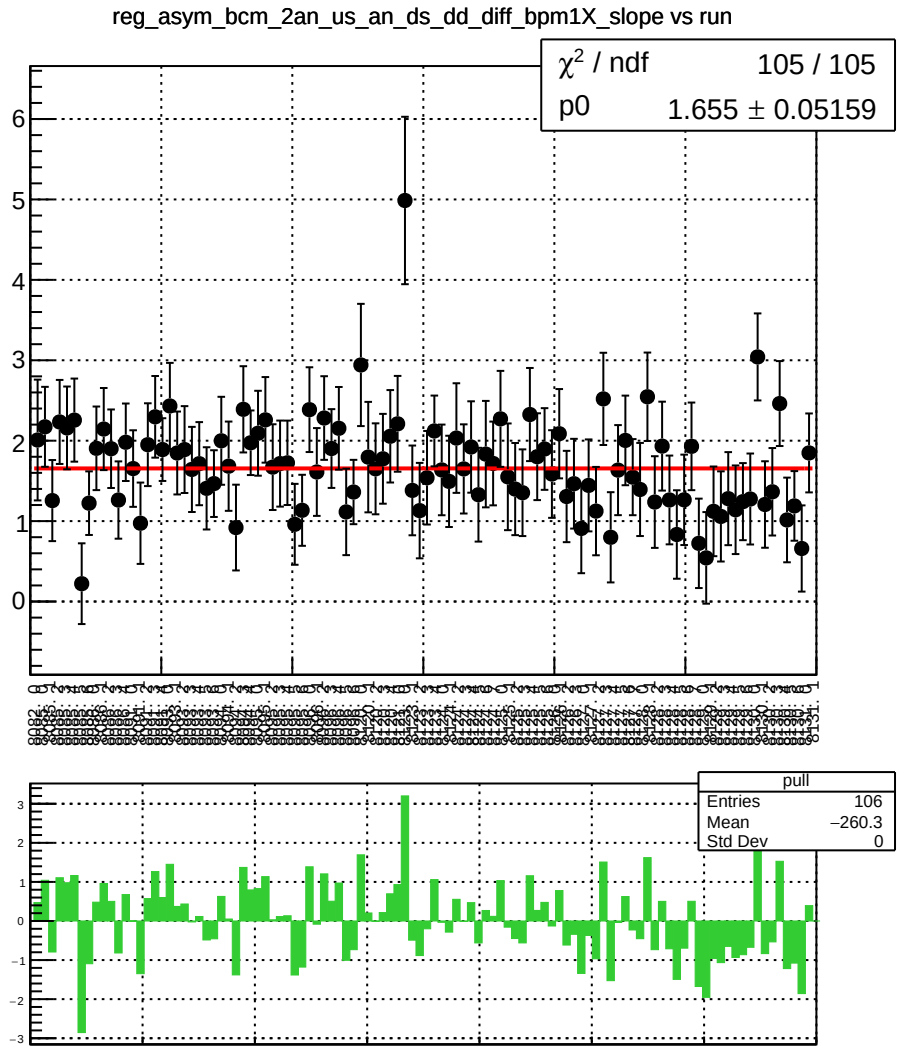

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 95.24 / 105
p0 0.7665 ± 0.2213
pull
Entries 106
Mean −2347
Std Dev 0

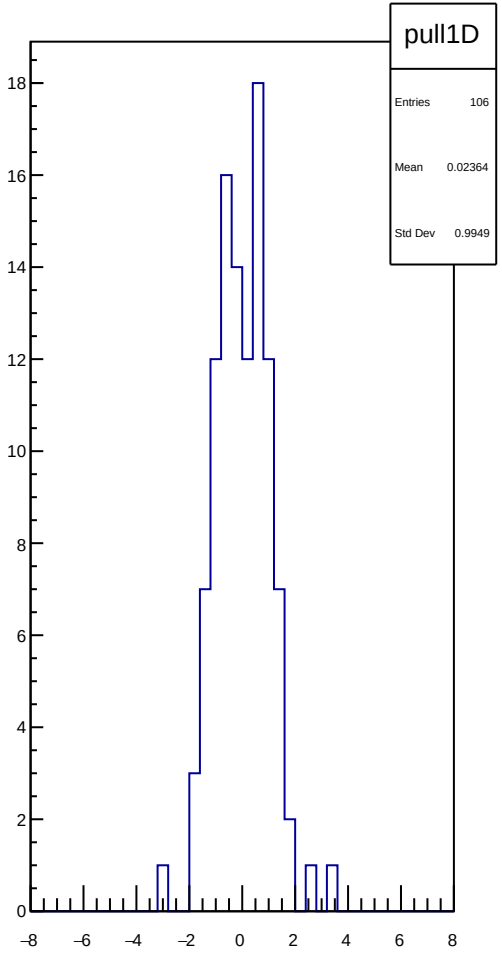

pull1D
Entries 106
Mean −0.004533
Std Dev 0.9479

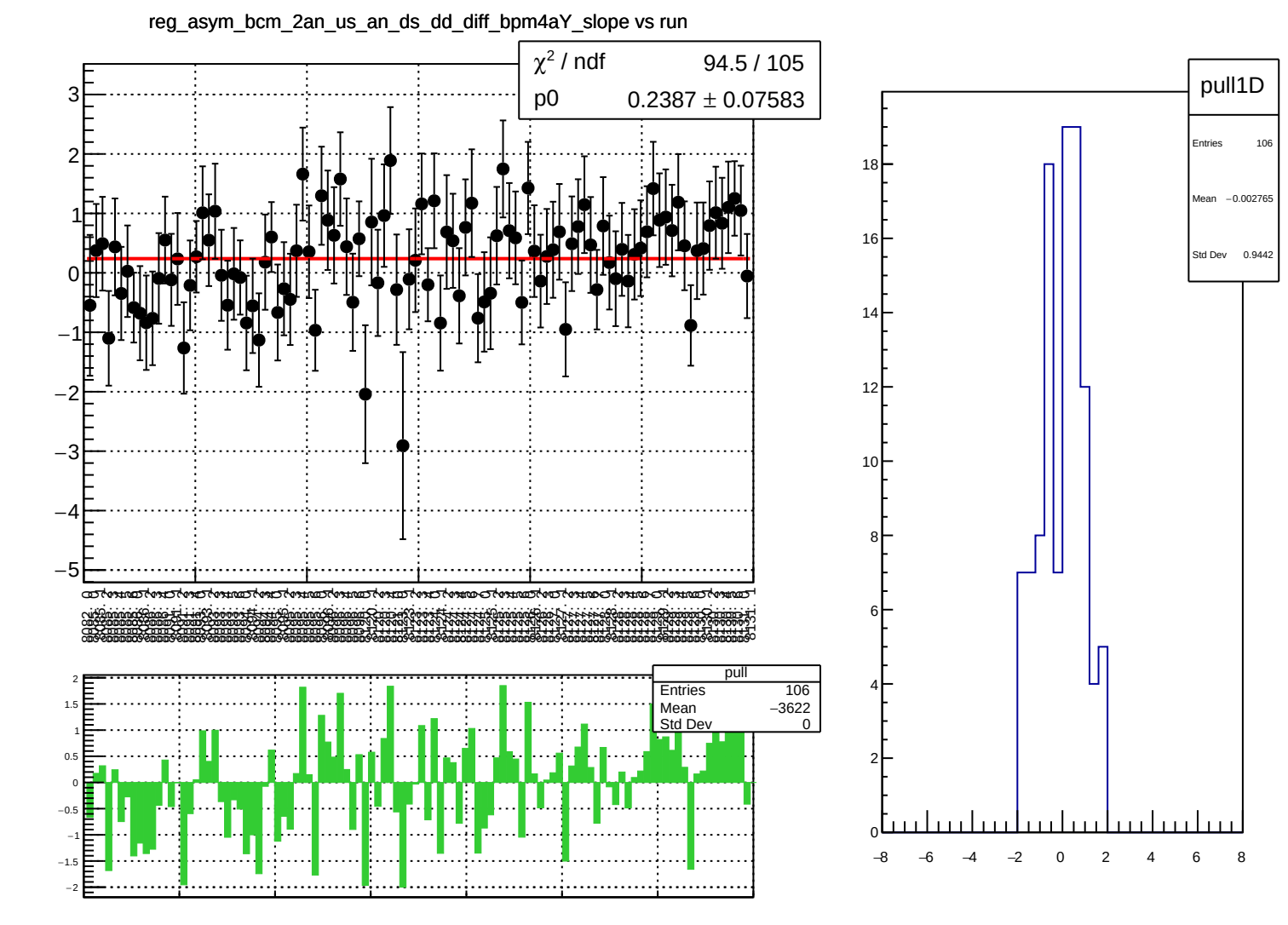

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 103.2 / 105
p0 −4.576 ± 0.1432
pull
Entries 106
Mean −200
Std Dev 0
pull1D
Entries 106
Mean −0.02754
Std Dev 0.9865

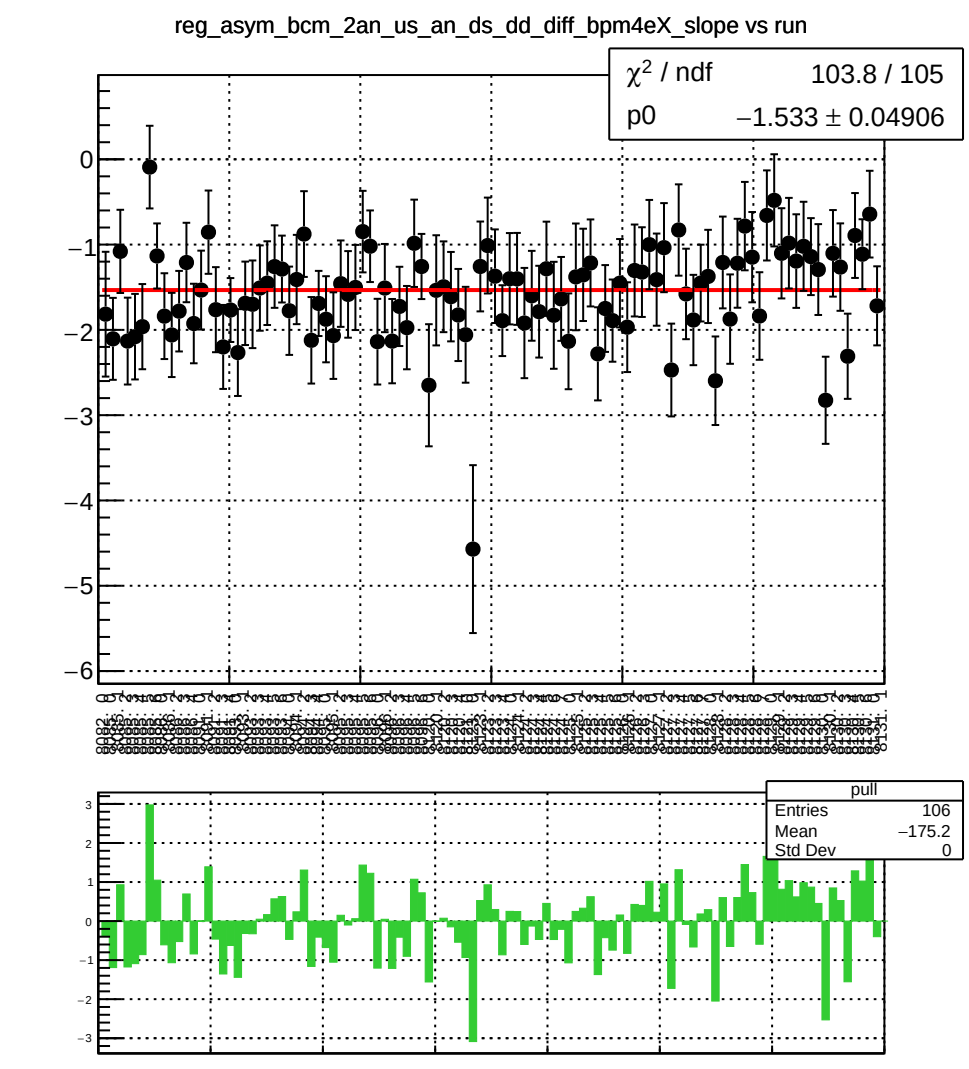

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 101.3 / 105
p0 −0.9782 ± 0.2365
pull
Entries 106
Mean −3.24e+04
Std Dev 0
pull1D
Entries 106
Mean 0.0003963
Std Dev 0.9775

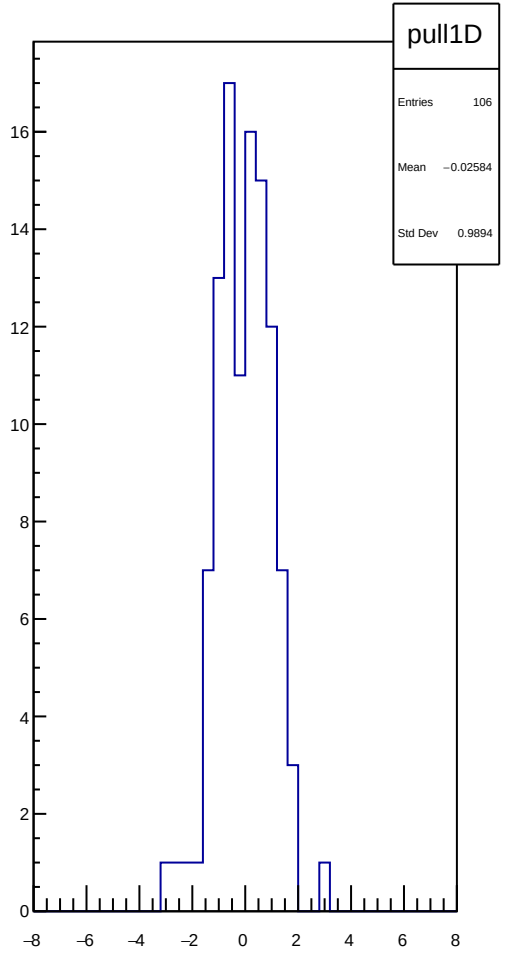

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 141.3 / 105
p0 0.09185 ± 0.009045
pull
Entries 106
Mean −5037
Std Dev 0
pull1D
Entries 106
Mean 0.002933
Std Dev 1.155

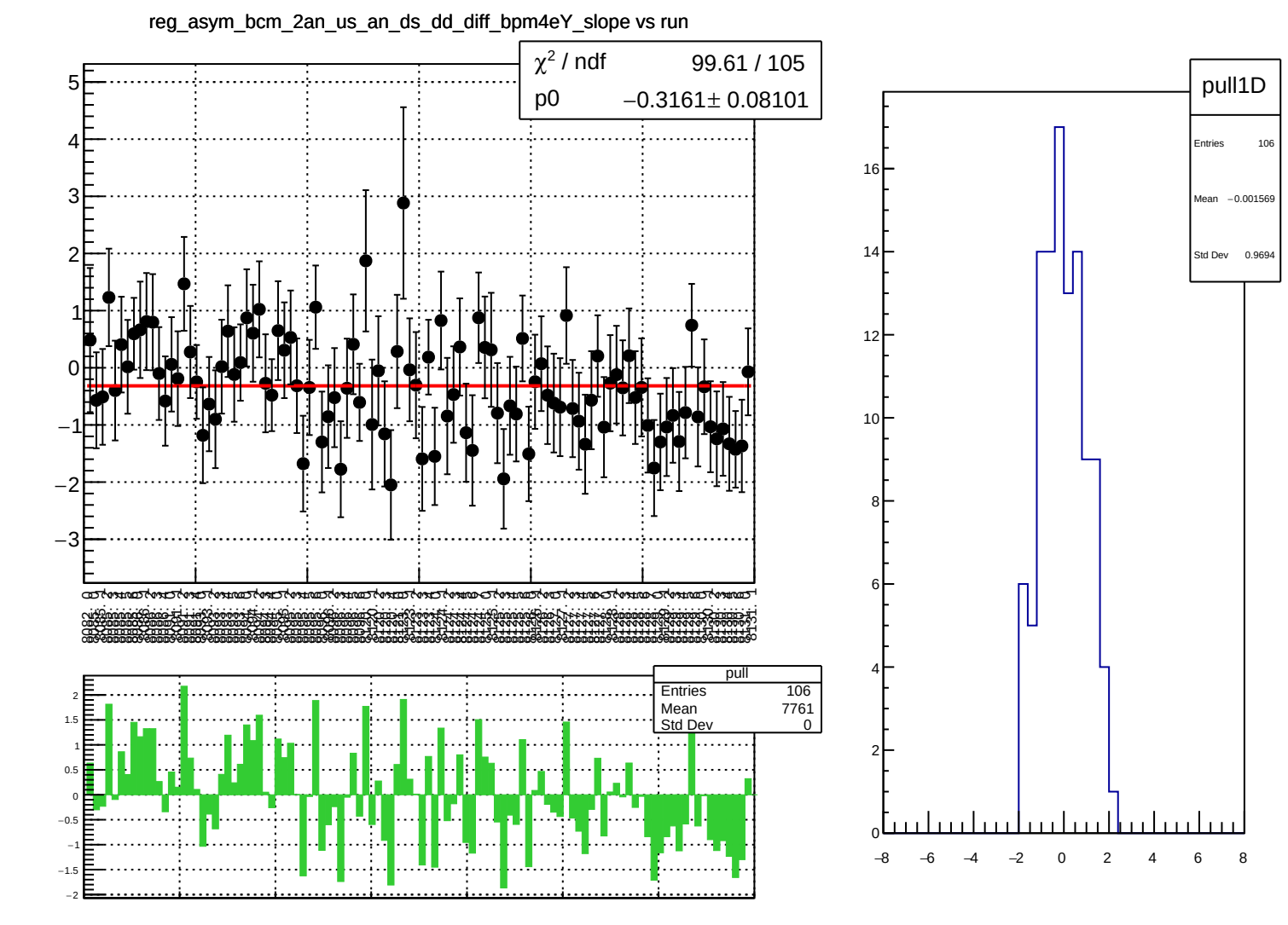

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 105 / 105
p0 1.655 ± 0.05159
pull
Entries 106
Mean −260.3
Std Dev 0

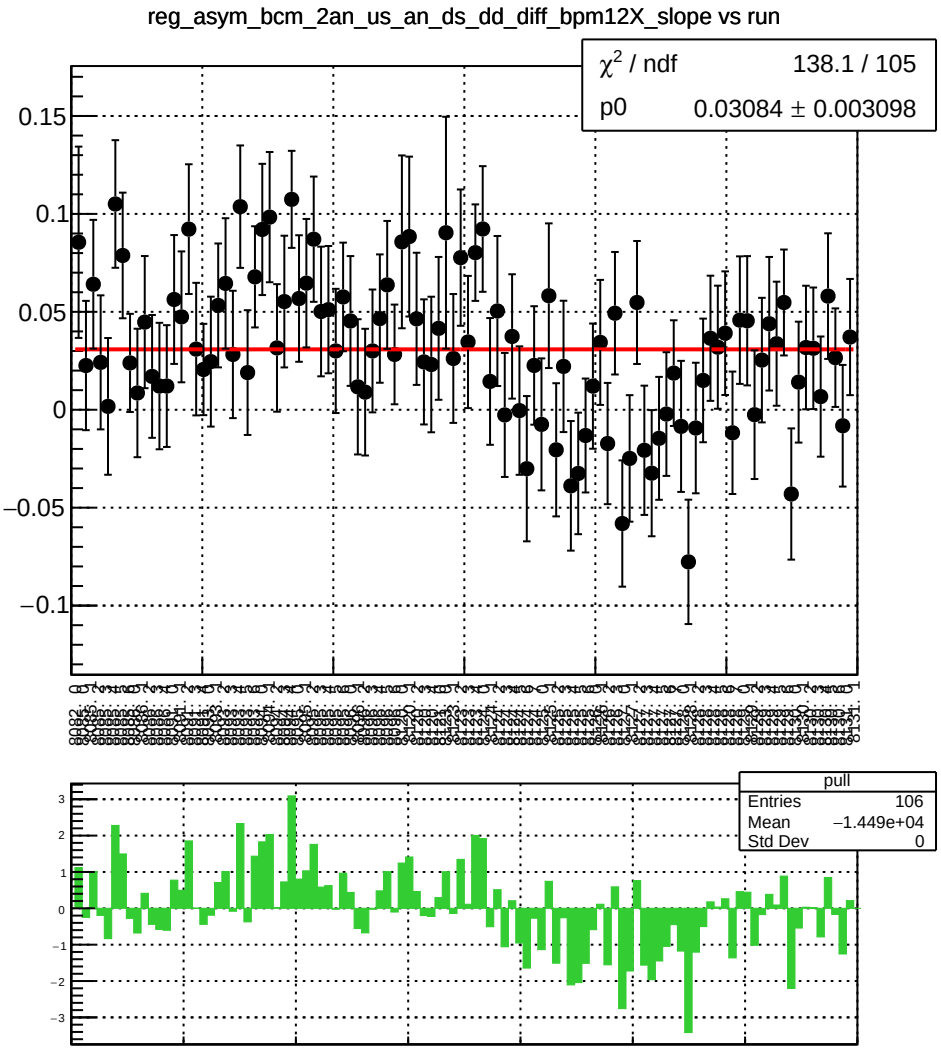

pull1D
Entries 106
Mean 0.02364
Std Dev 0.9949

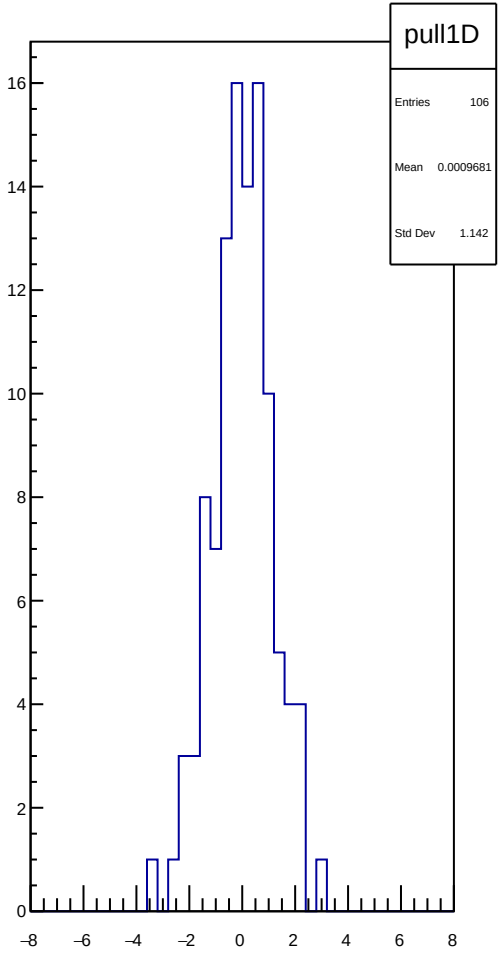

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 94.5 / 105
p0 0.2387 ± 0.07583
pull
Entries 106
Mean −3622
Std Dev 0
pull1D
Entries 106
Mean −0.002765
Std Dev 0.9442

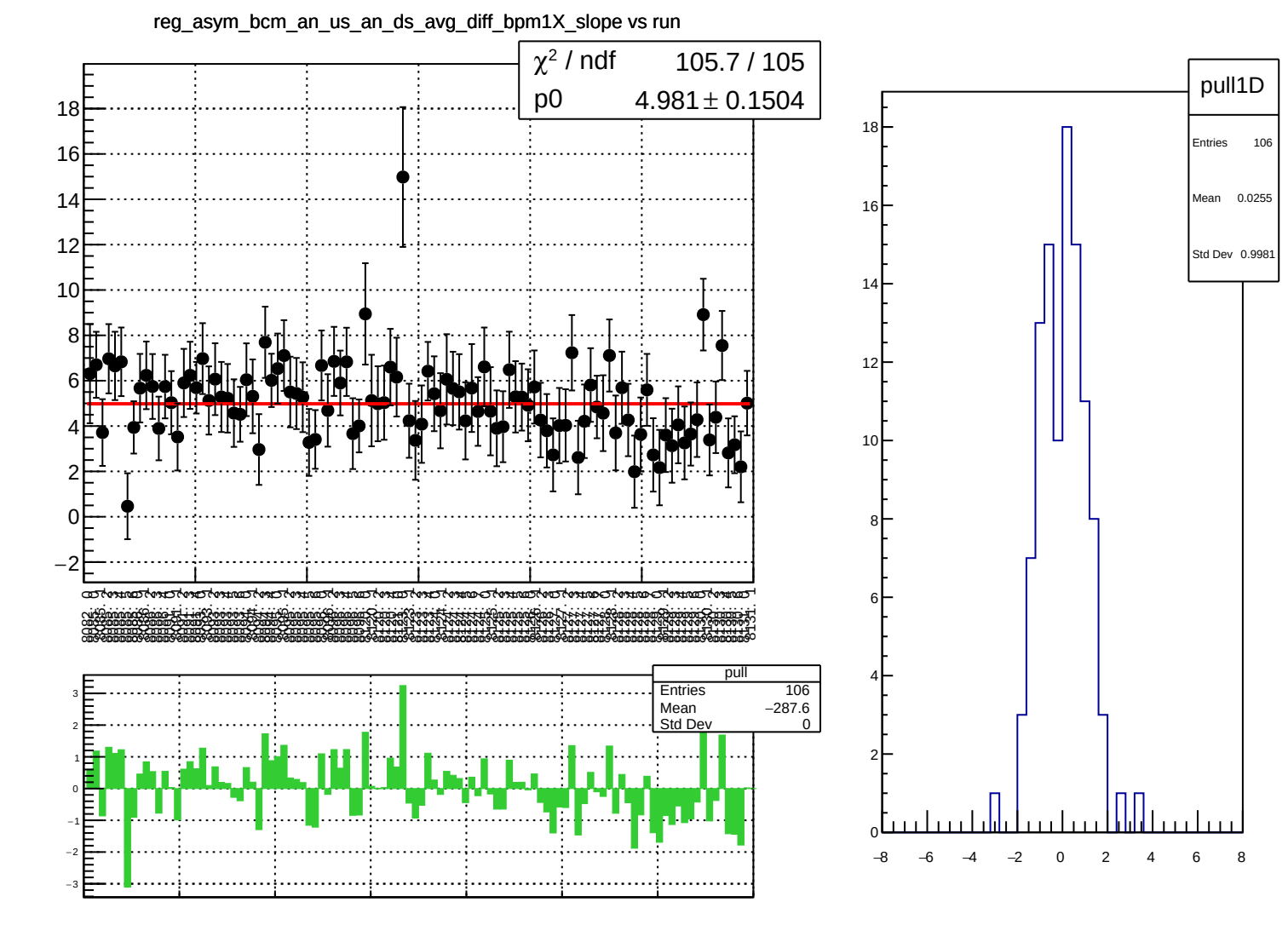

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 103.8 / 105
p0 −1.533 ± 0.04906
pull
Entries 106
Mean −175.2
Std Dev 0

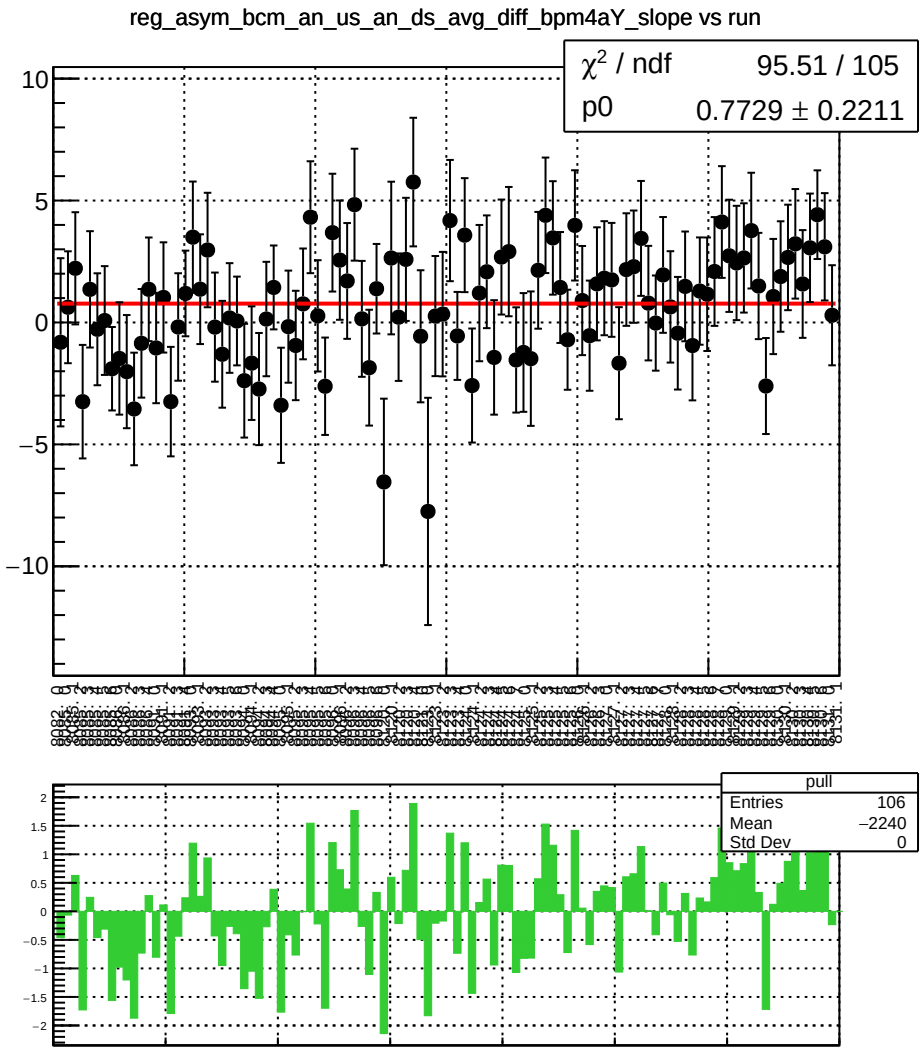

pull1D
Entries 106
Mean −0.02584
Std Dev 0.9894

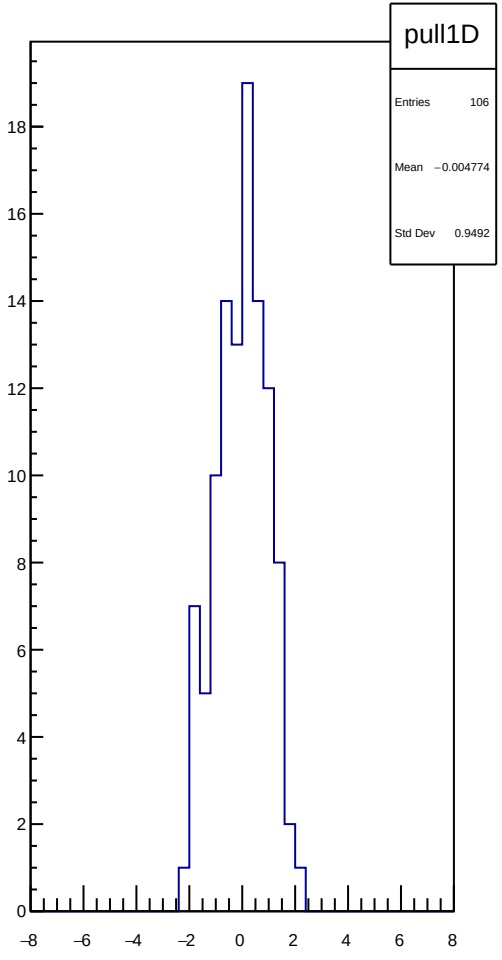

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 99.61 / 105
p0 −0.3161± 0.08101
pull
Entries 106
Mean 7761
Std Dev 0
pull1D
Entries 106
Mean −0.001569
Std Dev 0.9694

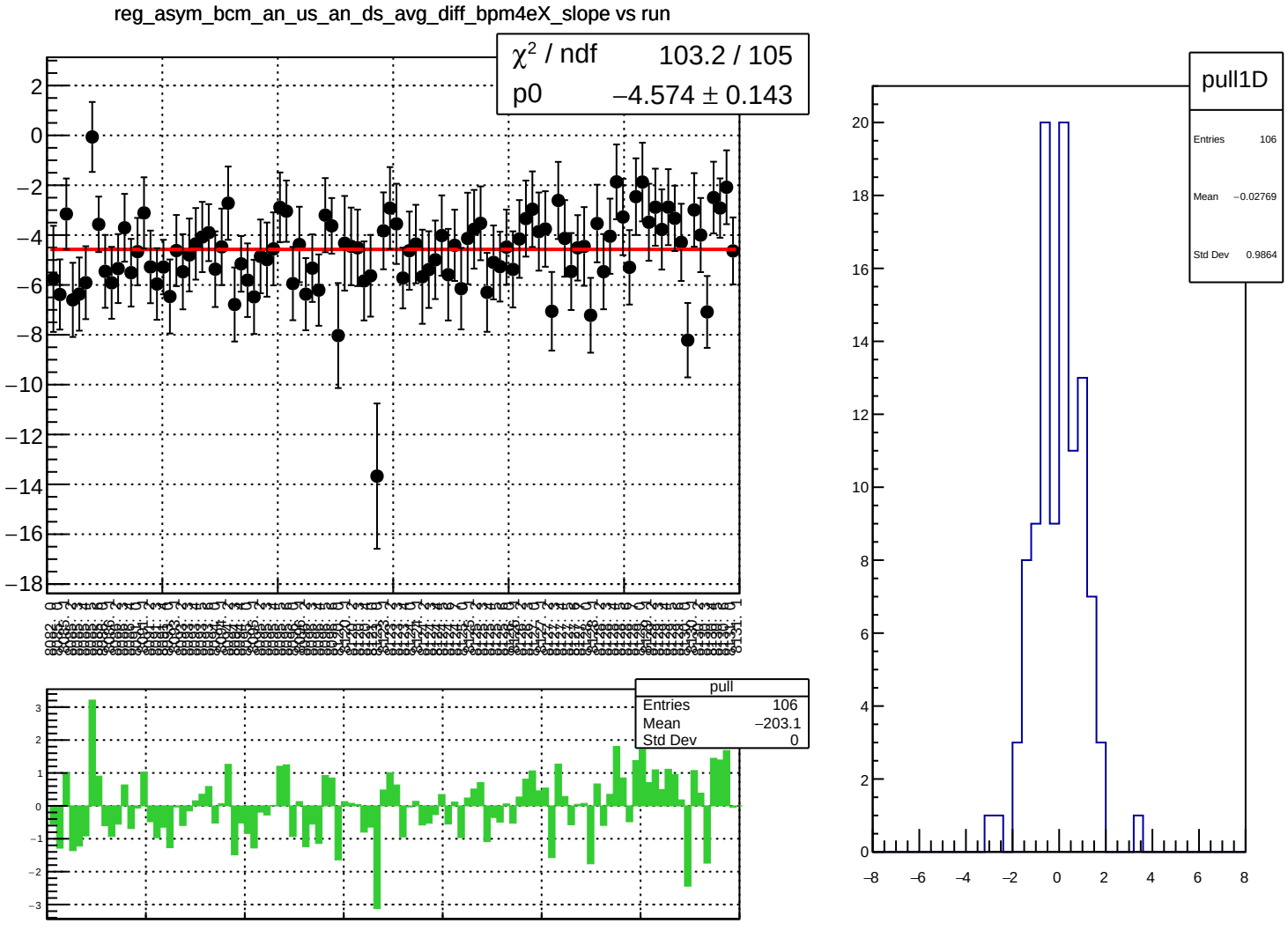

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 138.1 / 105
p0 0.03084 ± 0.003098
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 106
Mean −1.449e+04
Std Dev 0
3
2
1
0
−1
−2
−3

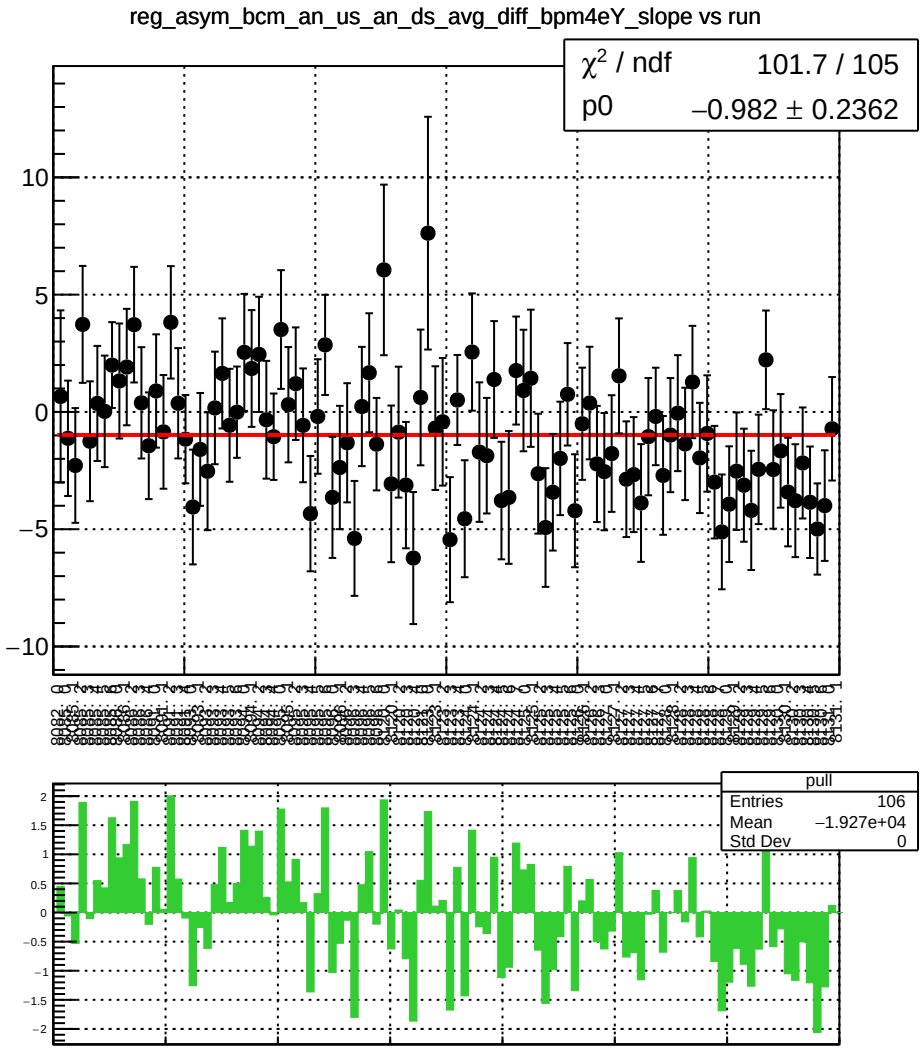

pull1D
Entries 106
Mean 0.0009681
Std Dev 1.142
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

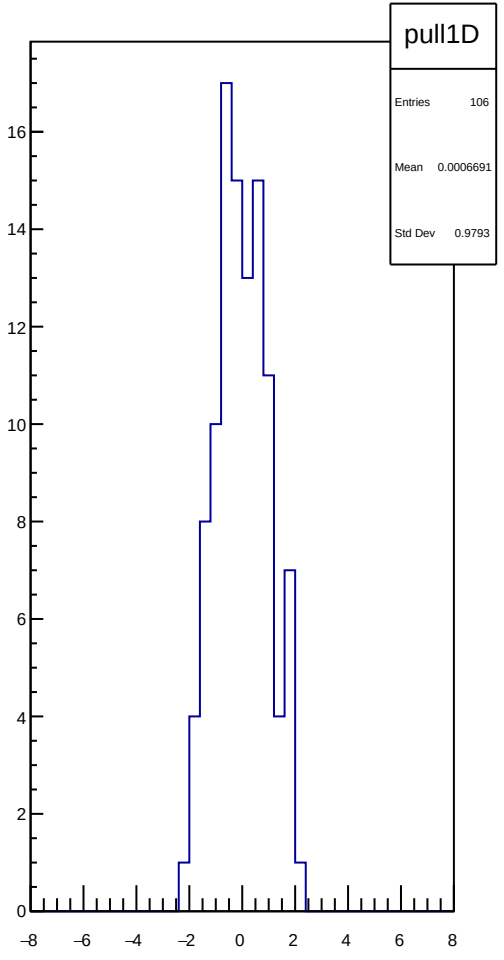

reg_asym_bcm_an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 105.7 / 105
p0 4.981 ± 0.1504
pull
Entries 106
Mean −287.6
Std Dev 0
pull1D
Entries 106
Mean 0.0255
Std Dev 0.9981

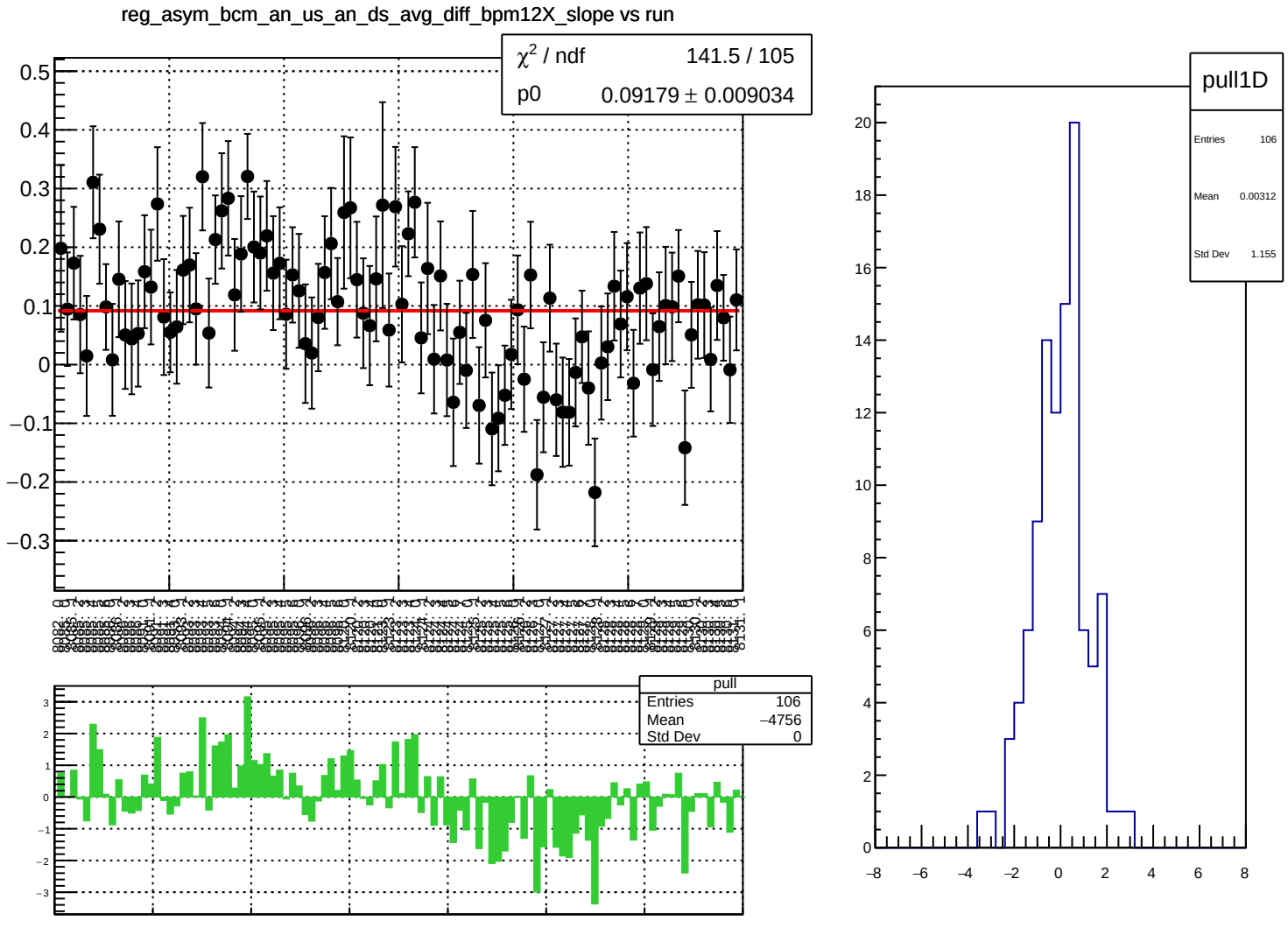

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 95.51 / 105
p0 0.7729 ± 0.2211
pull
Entries 106
Mean −2240
Std Dev 0

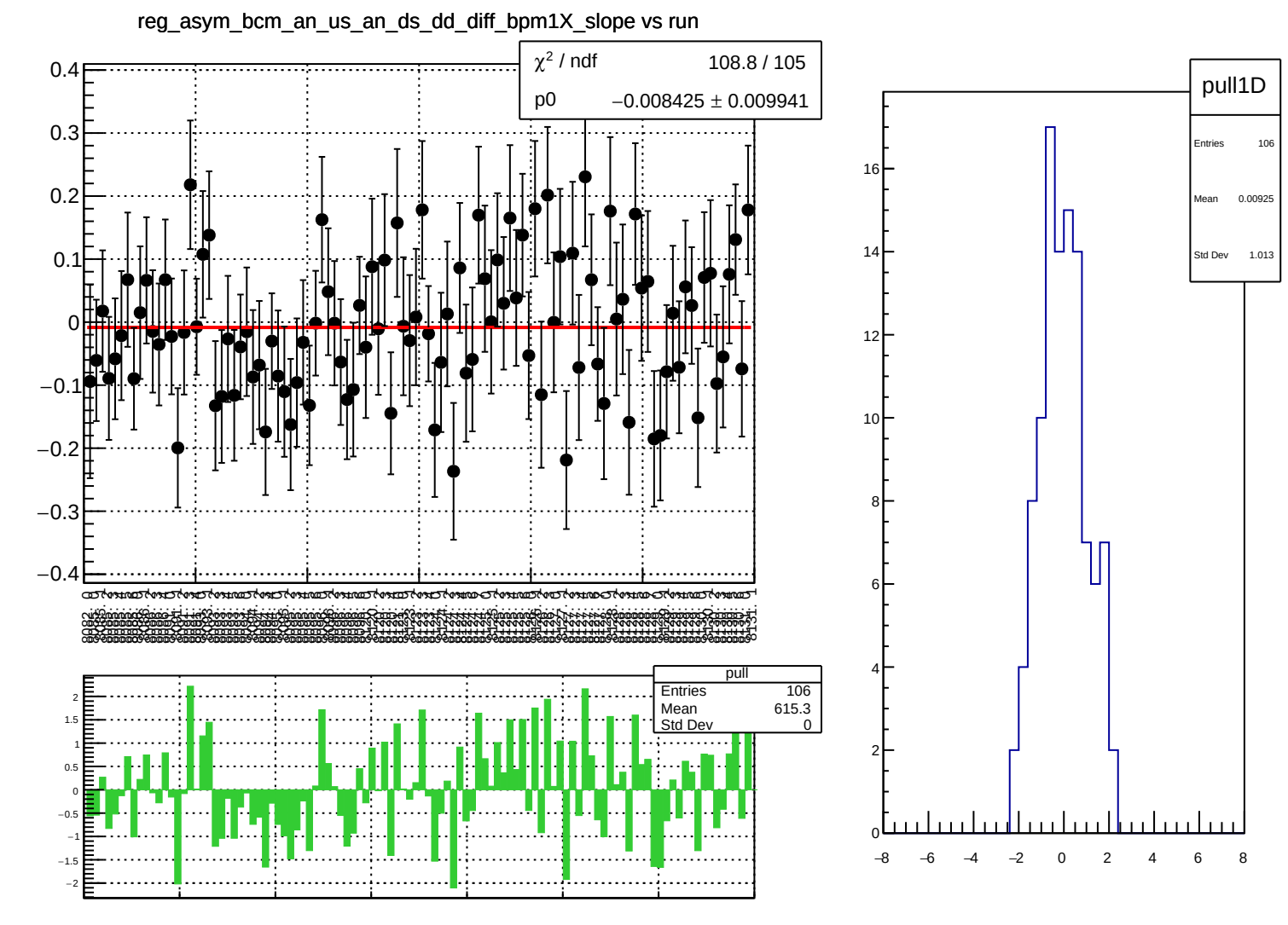

pull1D
Entries 106
Mean −0.004774
Std Dev 0.9492

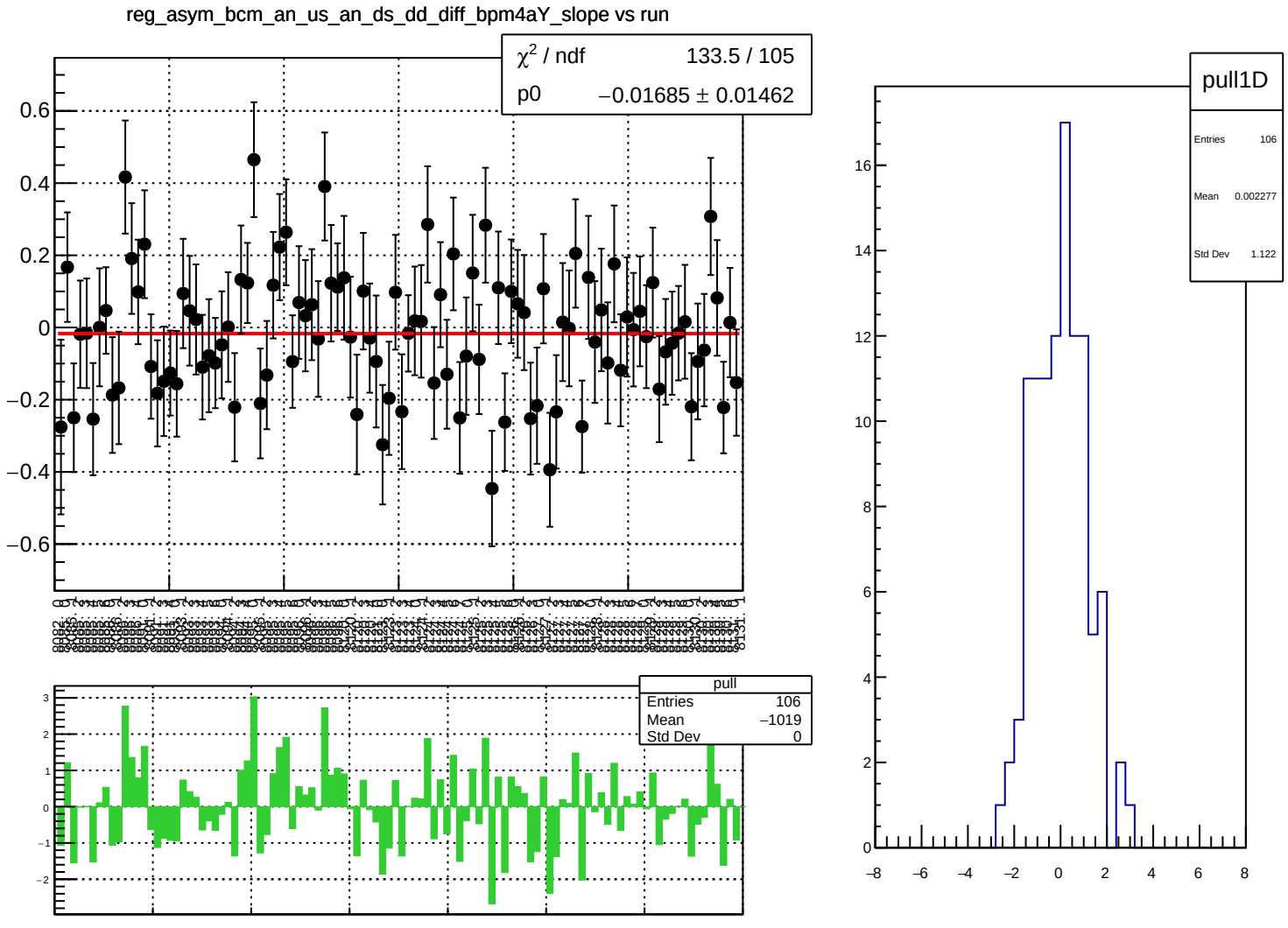

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 103.2 / 105
p0 −4.574 ± 0.143
pull
Entries 106
Mean −203.1
Std Dev 0
pull1D
Entries 106
Mean −0.02769
Std Dev 0.9864

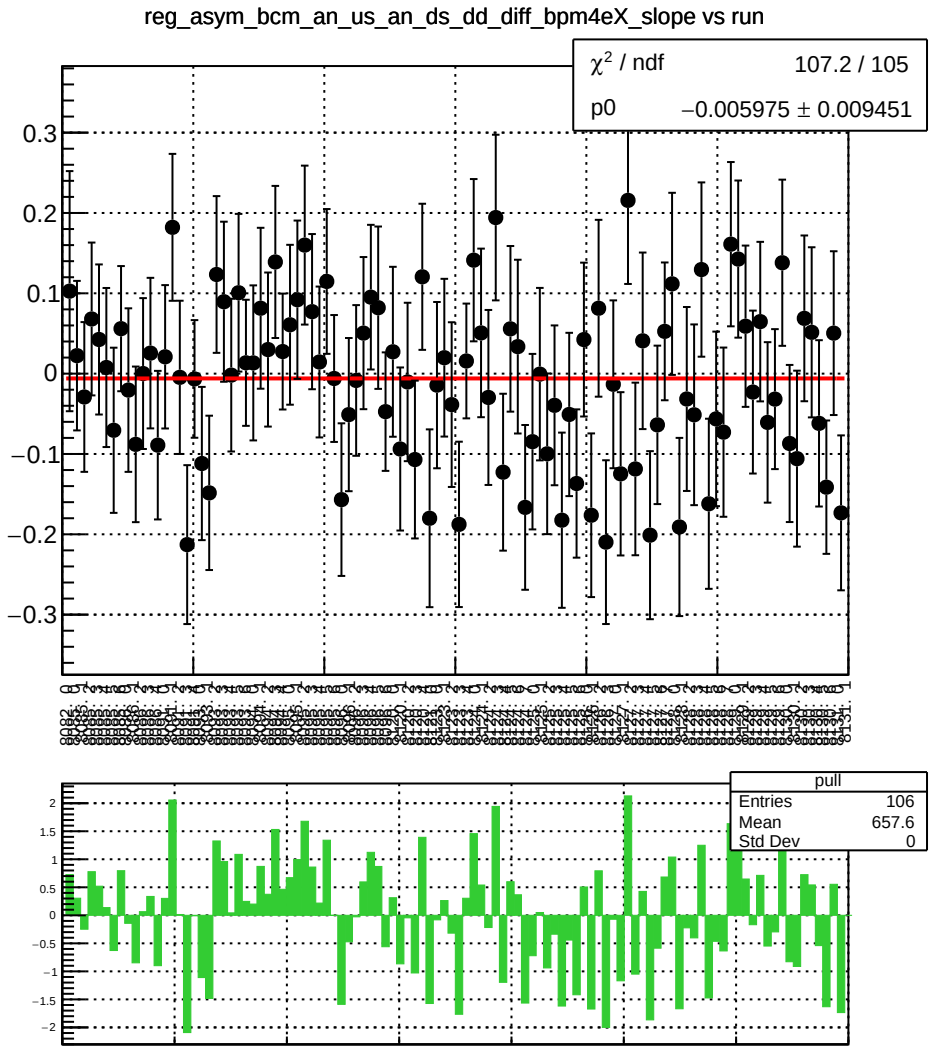

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 101.7 / 105
p0 −0.982 ± 0.2362
pull
Entries 106
Mean −1.927e+04
Std Dev 0

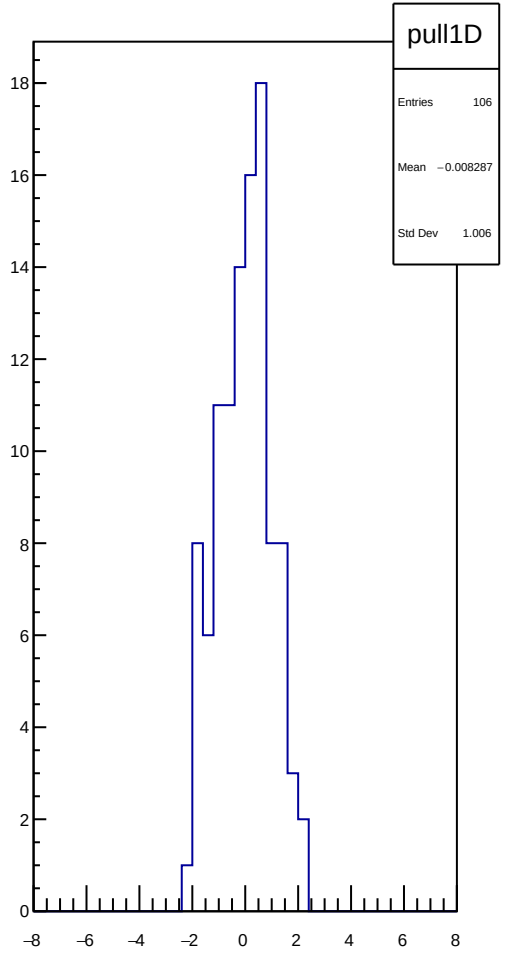

pull1D
Entries 106
Mean 0.0006691
Std Dev 0.9793

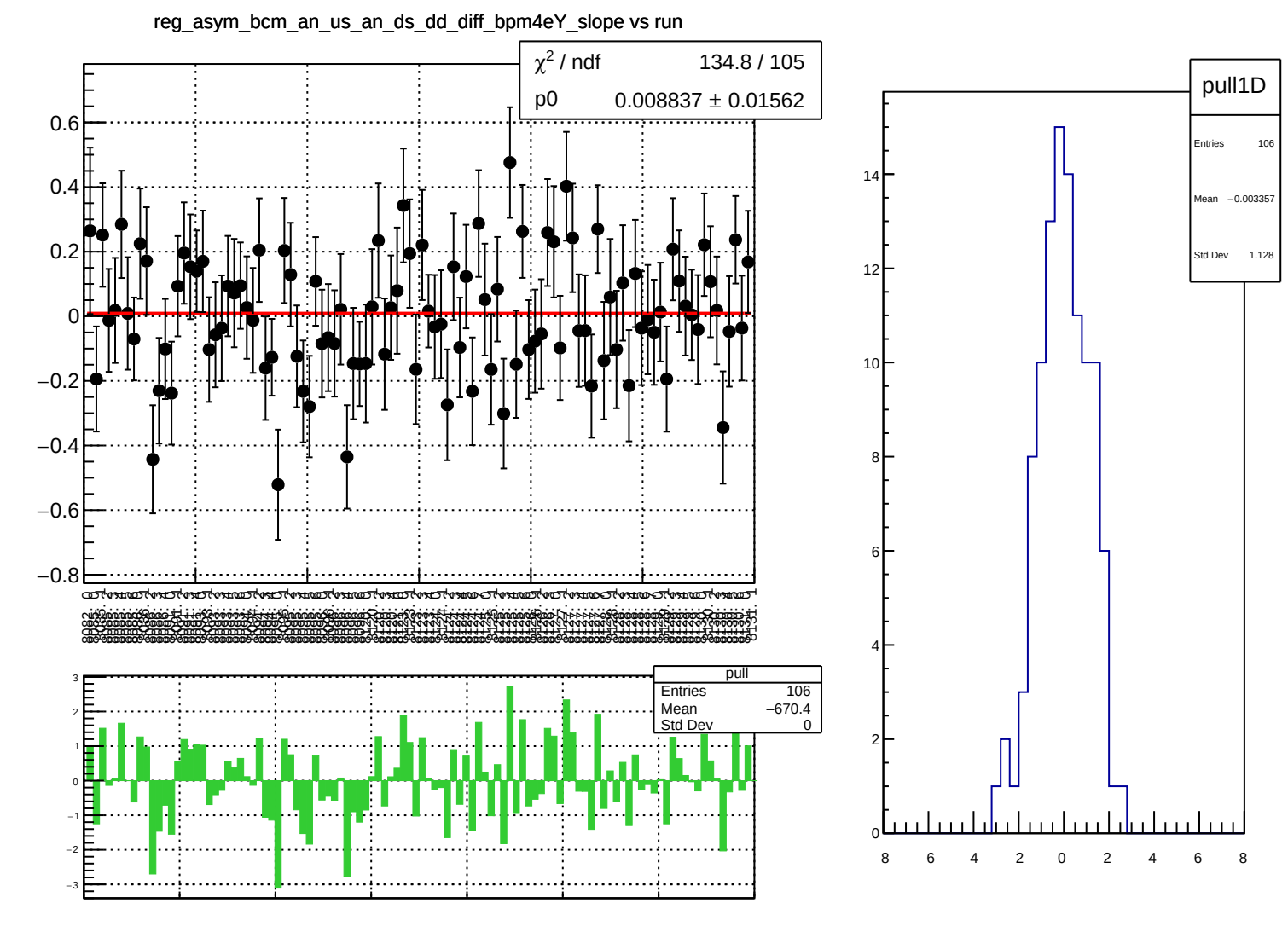

reg_asym_bcm_an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 141.5 / 105
p0 0.09179 ± 0.009034
pull
Entries 106
Mean −4756
Std Dev 0
pull1D
Entries 106
Mean 0.00312
Std Dev 1.155

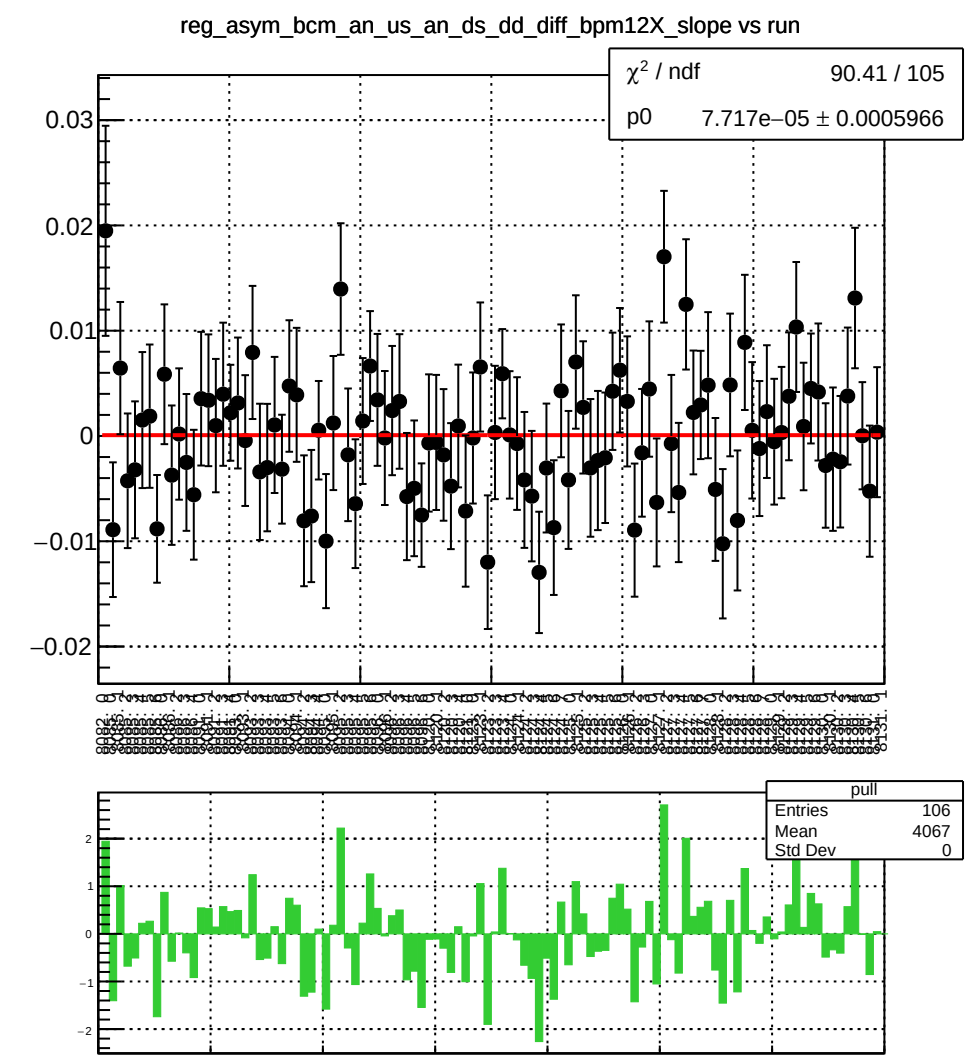

reg_asym_bcm_an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 108.8 / 105
p0 −0.008425 ± 0.009941
pull
Entries 106
Mean 615.3
Std Dev 0
pull1D
Entries 106
Mean 0.00925
Std Dev 1.013

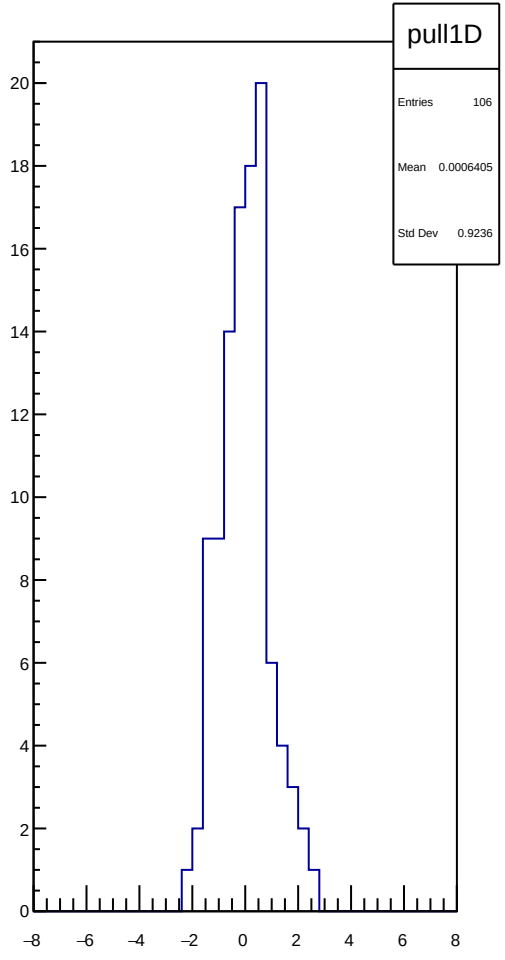

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 133.5 / 105
p0 −0.01685 ± 0.01462
pull
Entries 106
Mean −1019
Std Dev 0
pull1D
Entries 106
Mean 0.002277
Std Dev 1.122

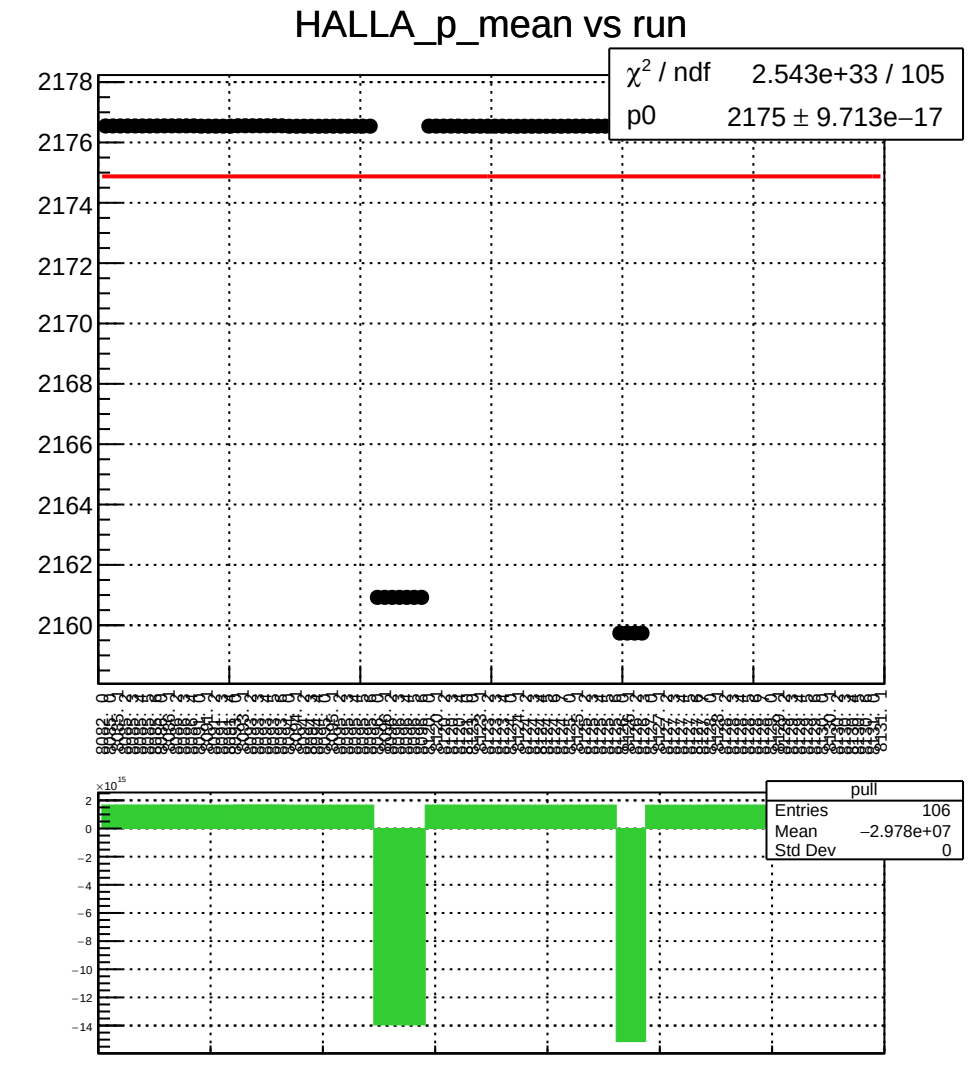

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 107.2 / 105
p0 −0.005975 ± 0.009451
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 106
Mean 657.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

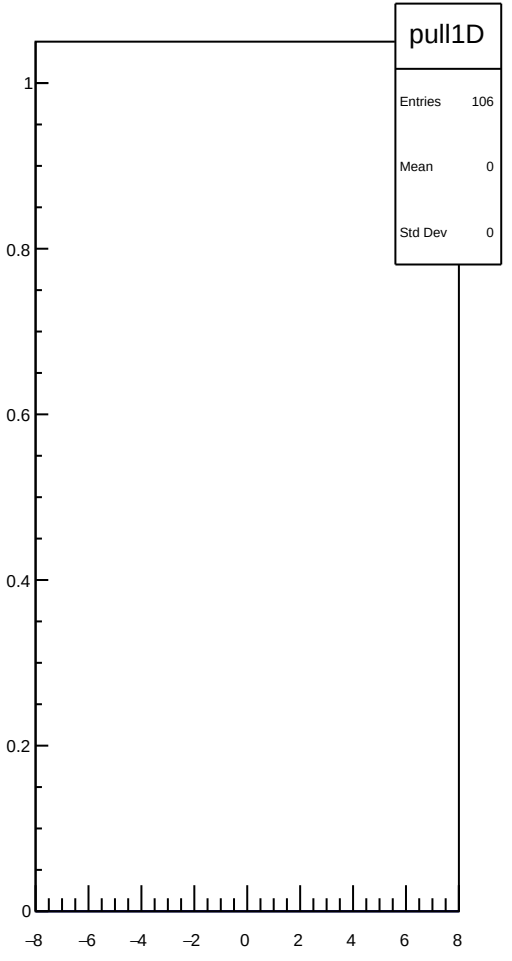

pull1D
Entries 106
Mean −0.008287
Std Dev 1.006
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

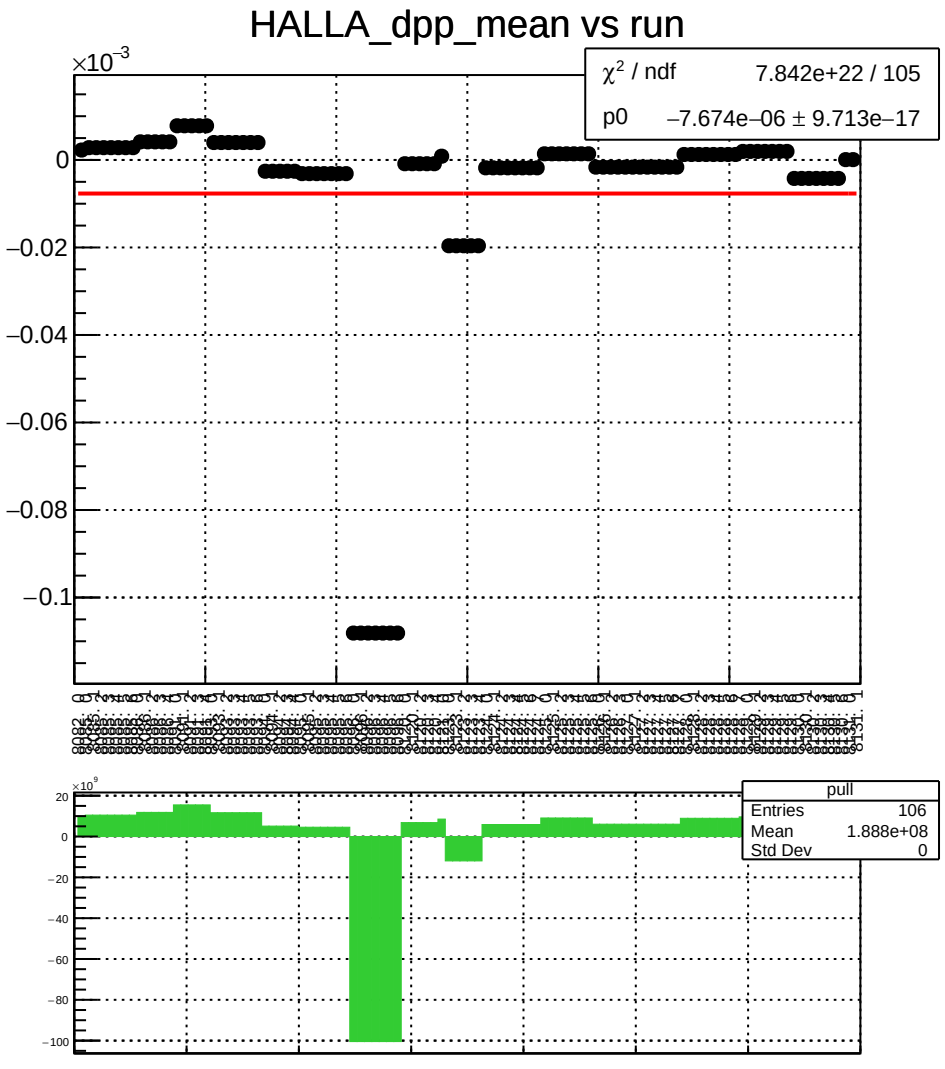

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 134.8 / 105
p0 0.008837 ± 0.01562
pull
Entries 106
Mean −670.4
Std Dev 0
pull1D
Entries 106
Mean −0.003357
Std Dev 1.128

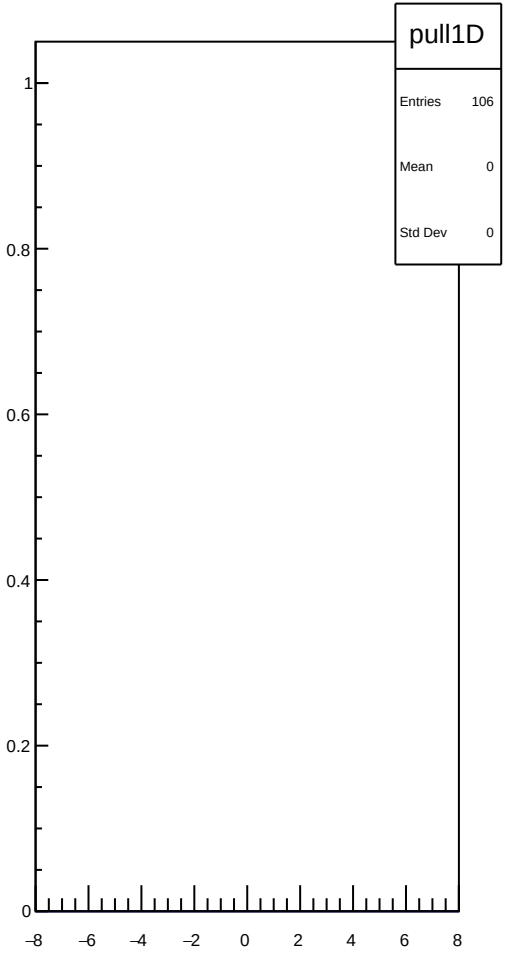

reg_asym_bcm_an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 90.41 / 105
p0 7.717e−05 ± 0.0005966
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 106
Mean 4067
Std Dev 0
2
1
0
−1
−2

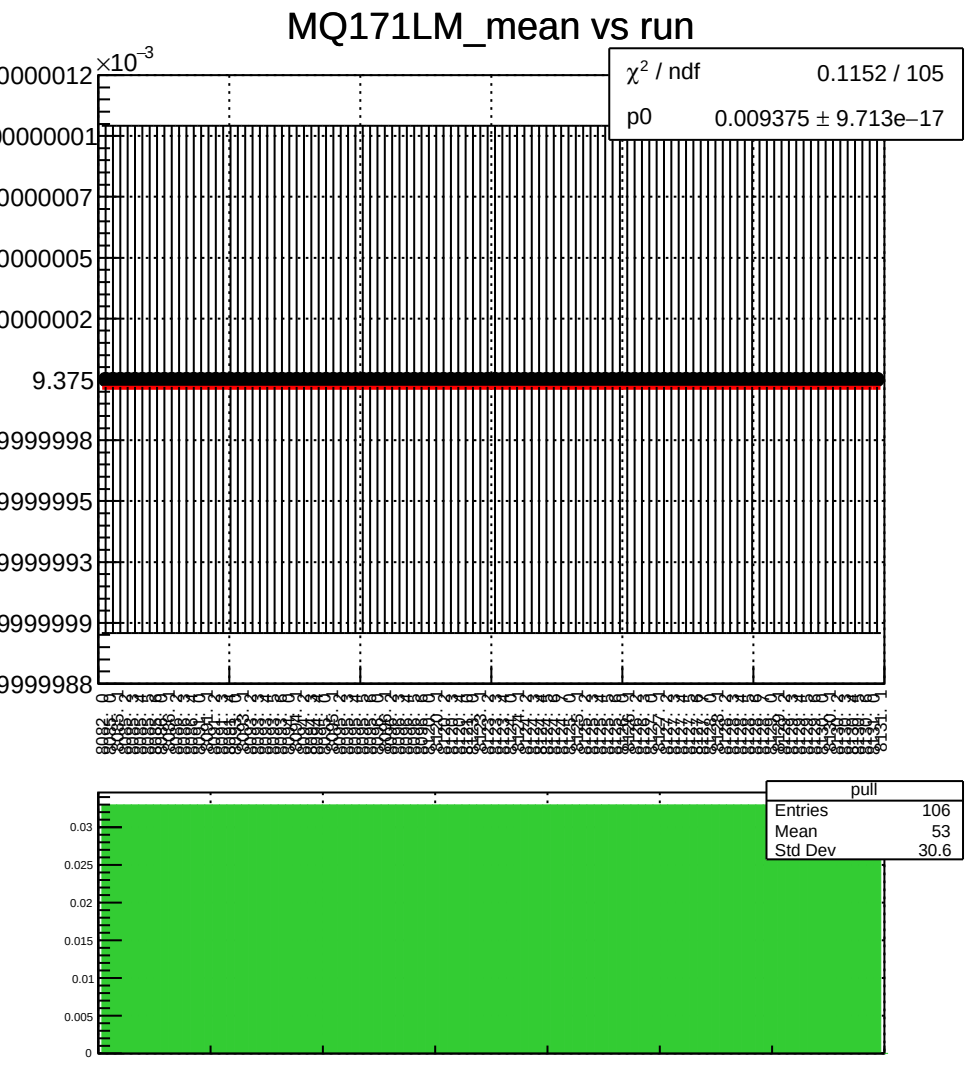

pull1D
Entries 106
Mean 0.0006405
Std Dev 0.9236
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

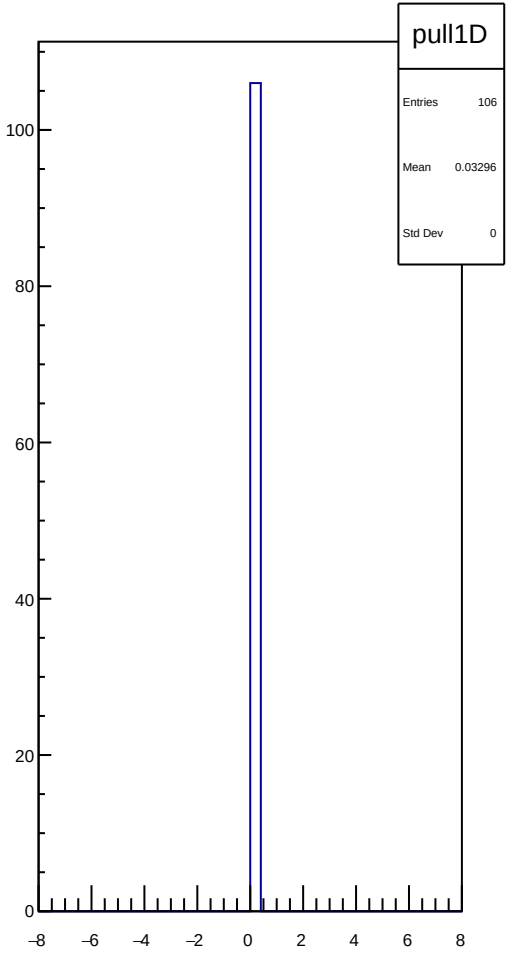

HALLA_p_mean vs run
χ² / ndf 2.543e+33 / 105
p0 2175 ± 9.713e−17
2178
2176
2174
2172
2170
2168
2166
2164
2162
2160
×10¹⁵
2
0
−2
−4
−6
−8
−10
−12
−14
pull
Entries 106
Mean −2.978e+07
Std Dev 0

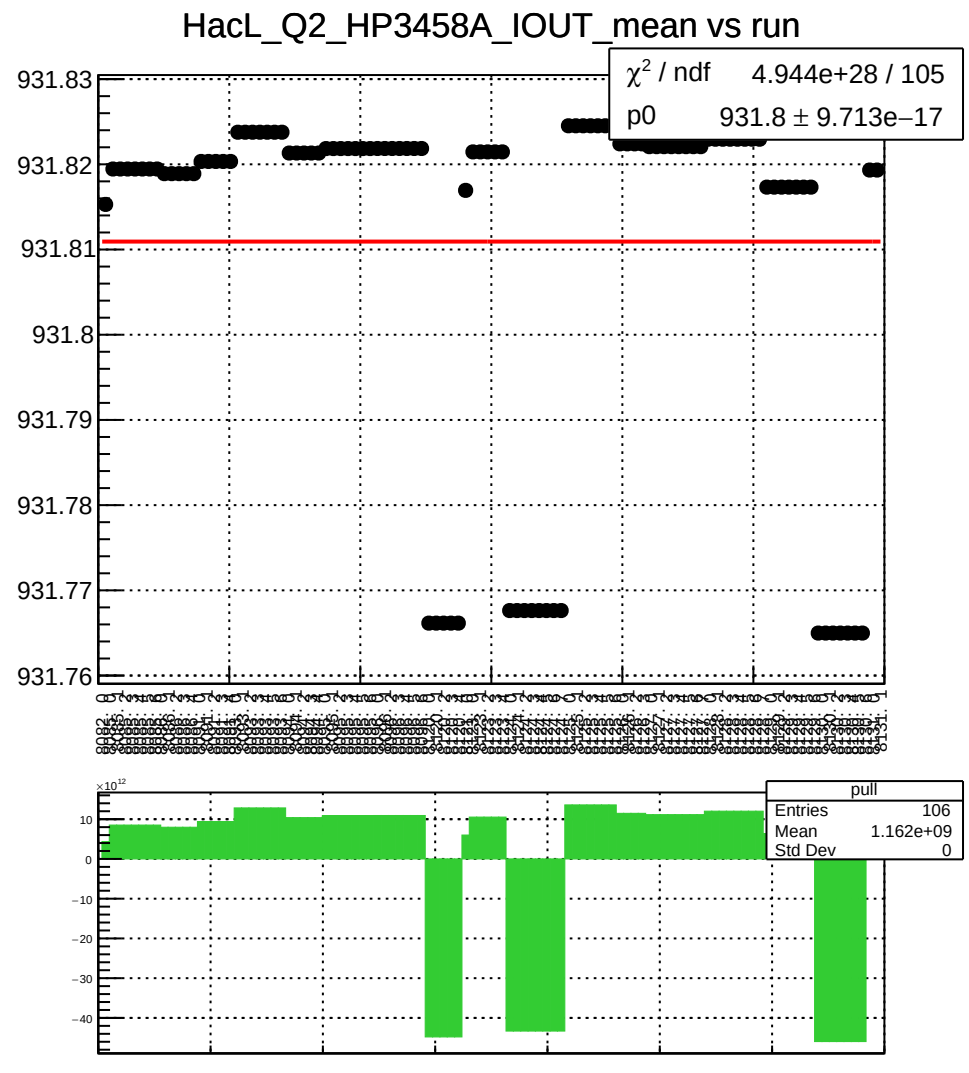

pull1D
Entries 106
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

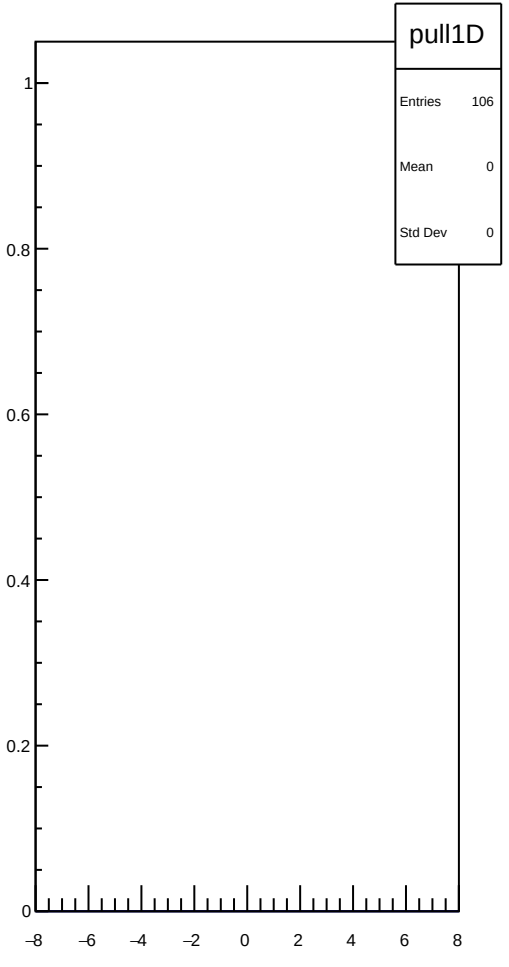

HALLA_dpp_mean vs run
×10⁻³
χ² / ndf 7.842e+22 / 105
p0 −7.674e−06 ± 9.713e−17
0
−0.02
−0.04
−0.06
−0.08
−0.1
×10⁹
20
0
−20
−40
−60
−80
−100
pull
Entries 106
Mean 1.888e+08
Std Dev 0

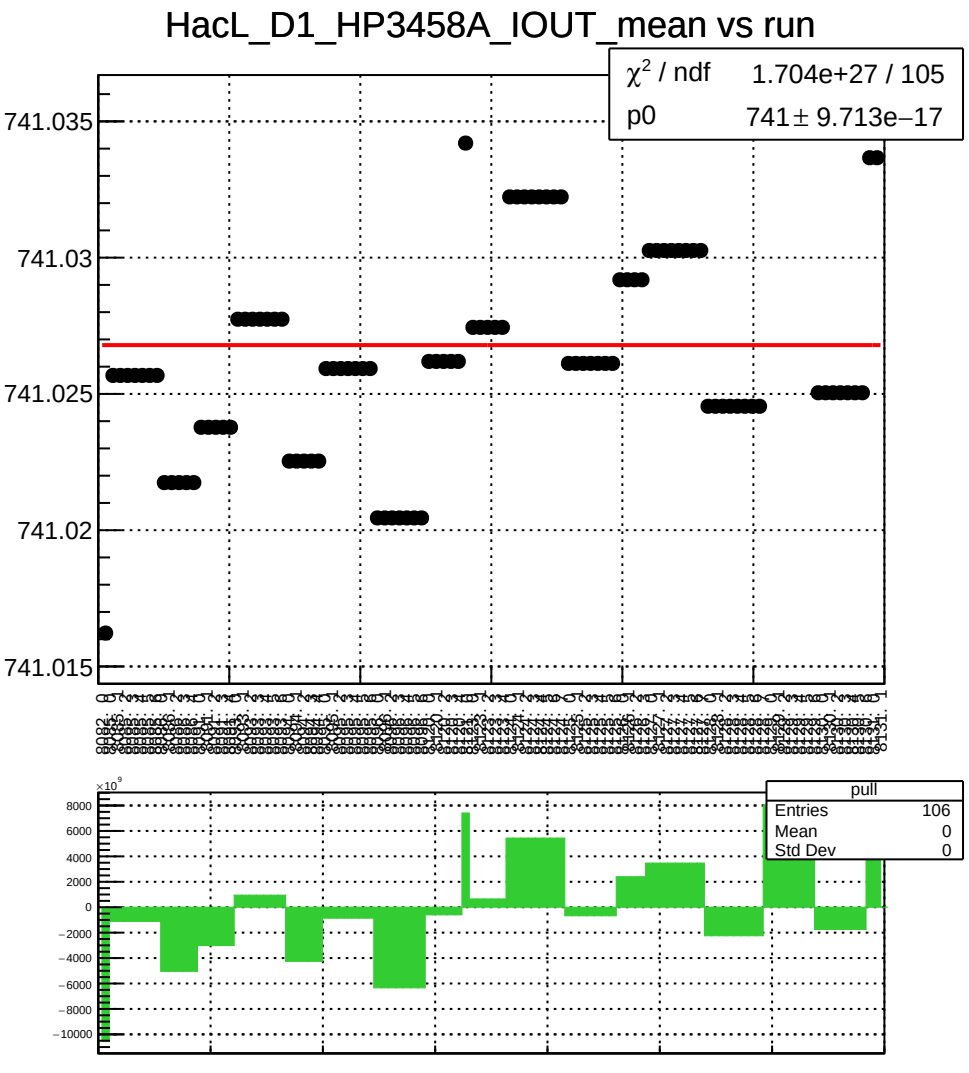

pull1D
Entries 106
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

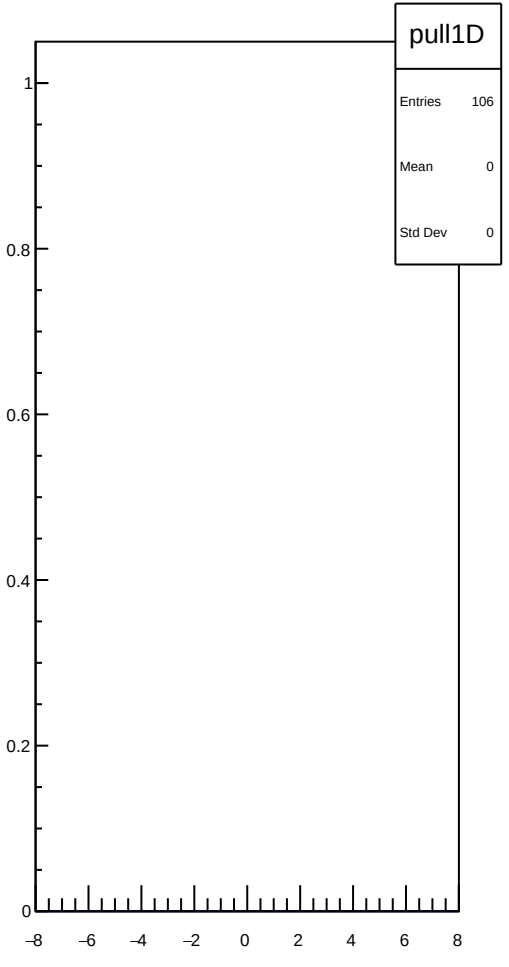

MQ171LM_mean vs run
χ² / ndf 0.1152 / 105
p0 0.009375 ± 9.713e−17
×10⁻³
pull
Entries 106
Mean 53
Std Dev 30.6

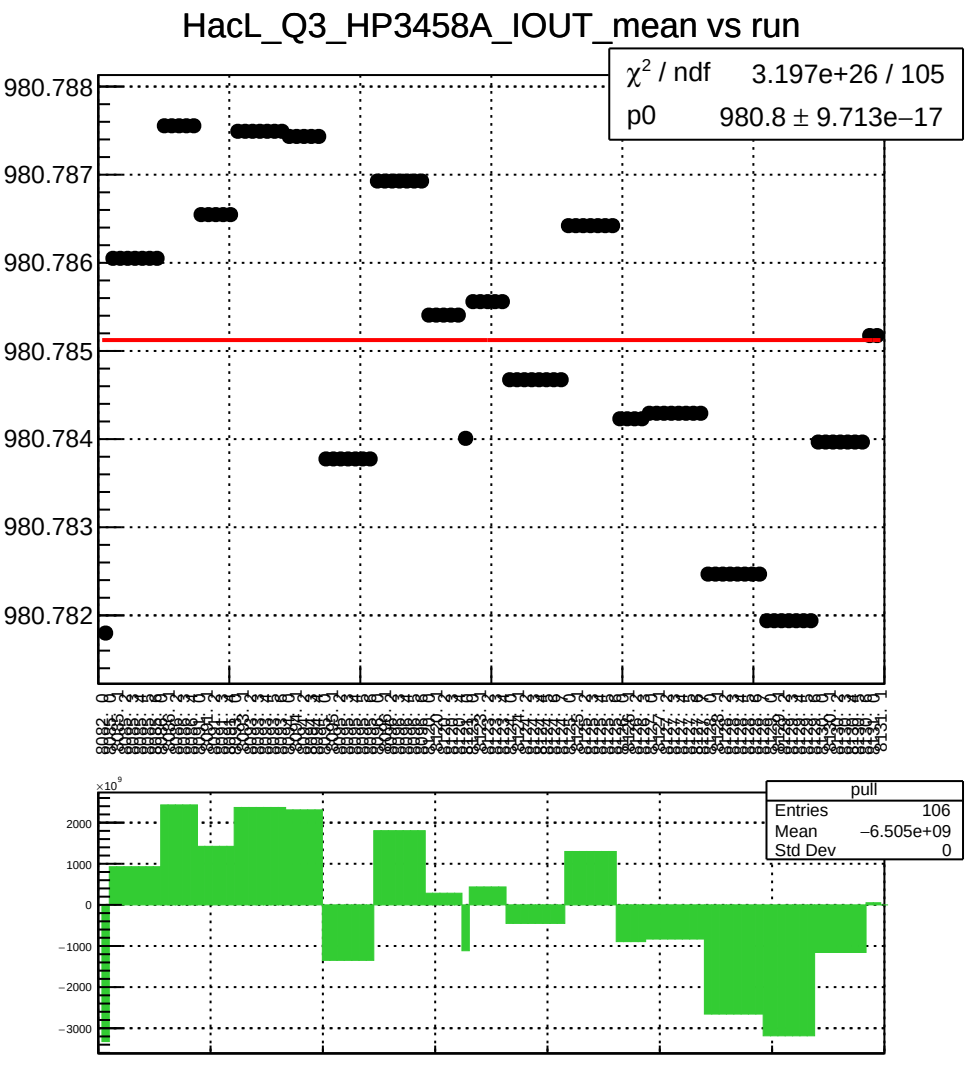

pull1D
Entries 106
Mean 0.03296
Std Dev 0

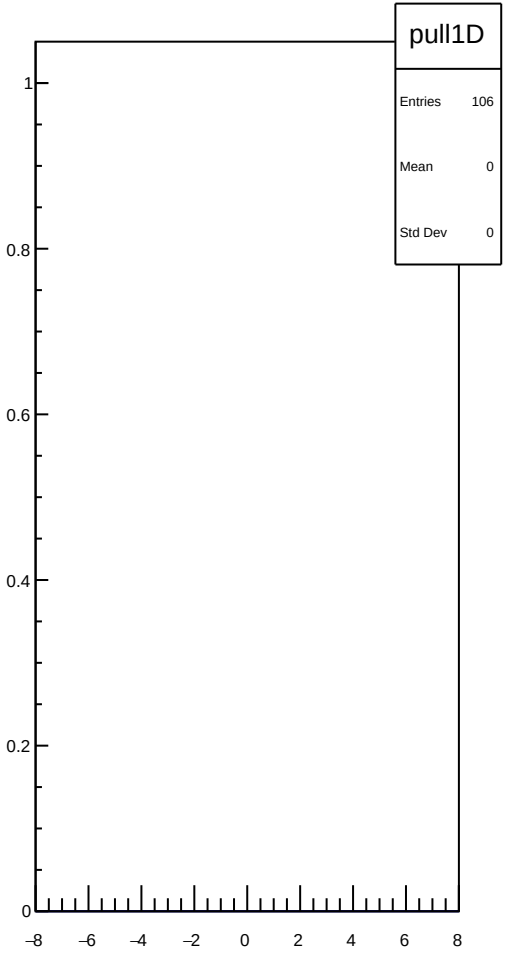

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 4.944e+28 / 105
p0 931.8 ± 9.713e−17
931.83
931.82
931.81
931.8
931.79
931.78
931.77
931.76
pull
Entries 106
Mean 1.162e+09
Std Dev 0
×10¹²
10
0
−10
−20
−30
−40

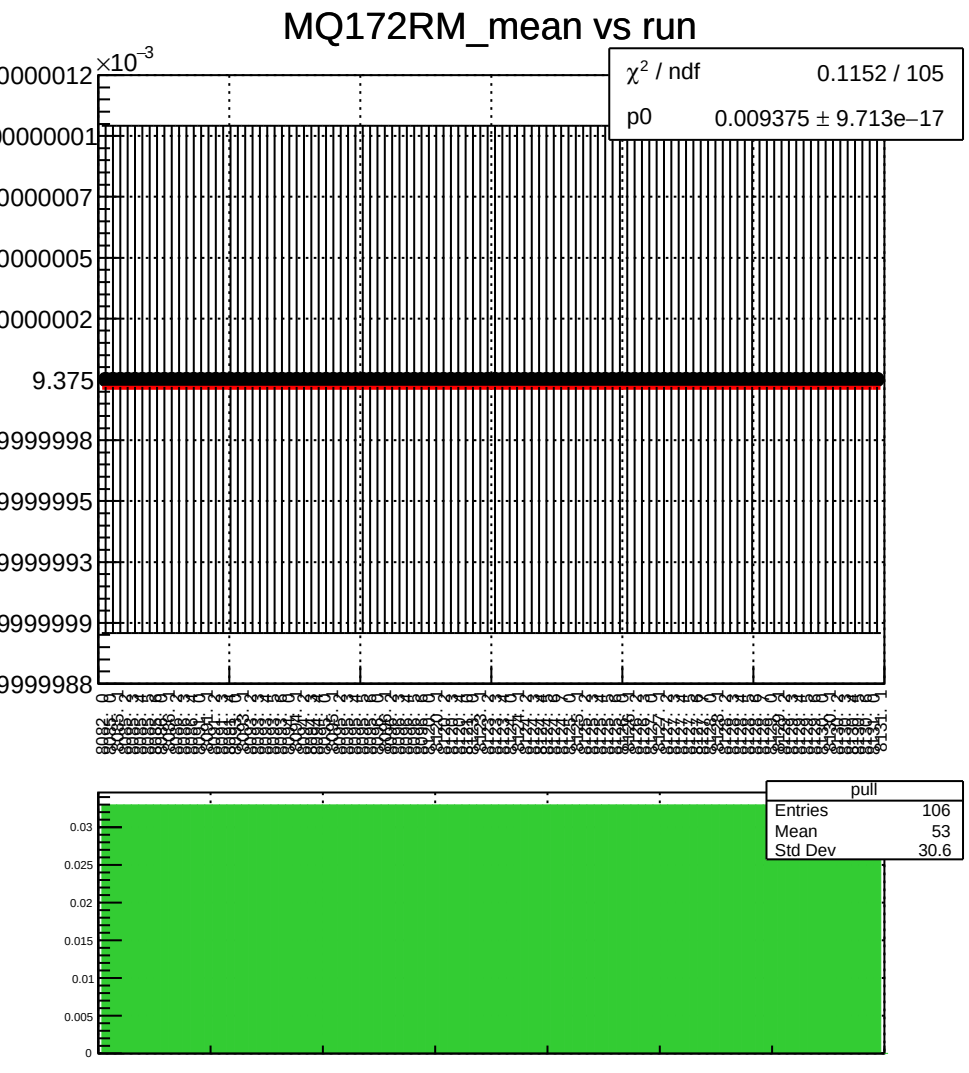

pull1D
Entries 106
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

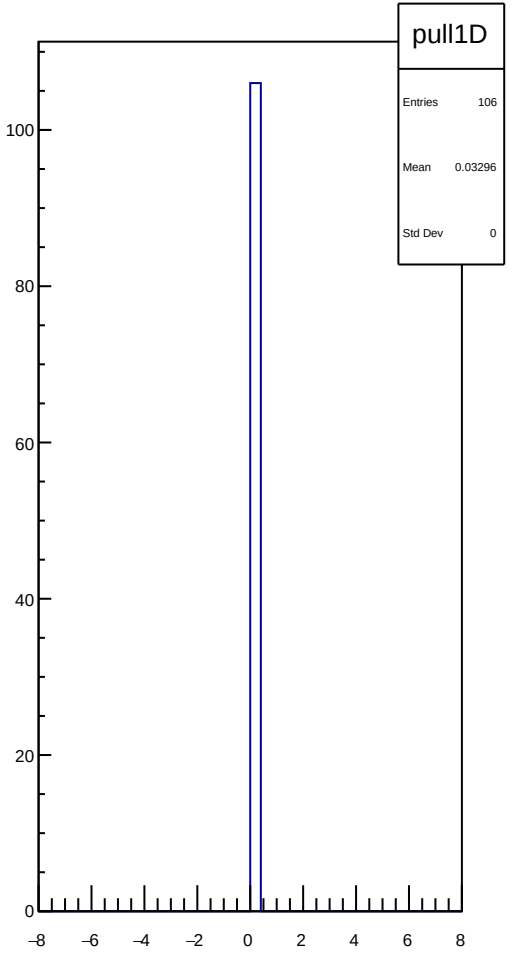

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 1.704e+27 / 105
p0 741 ± 9.713e−17
741.035
741.03
741.025
741.02
741.015
×10⁹
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
pull
Entries 106
Mean 0
Std Dev 0

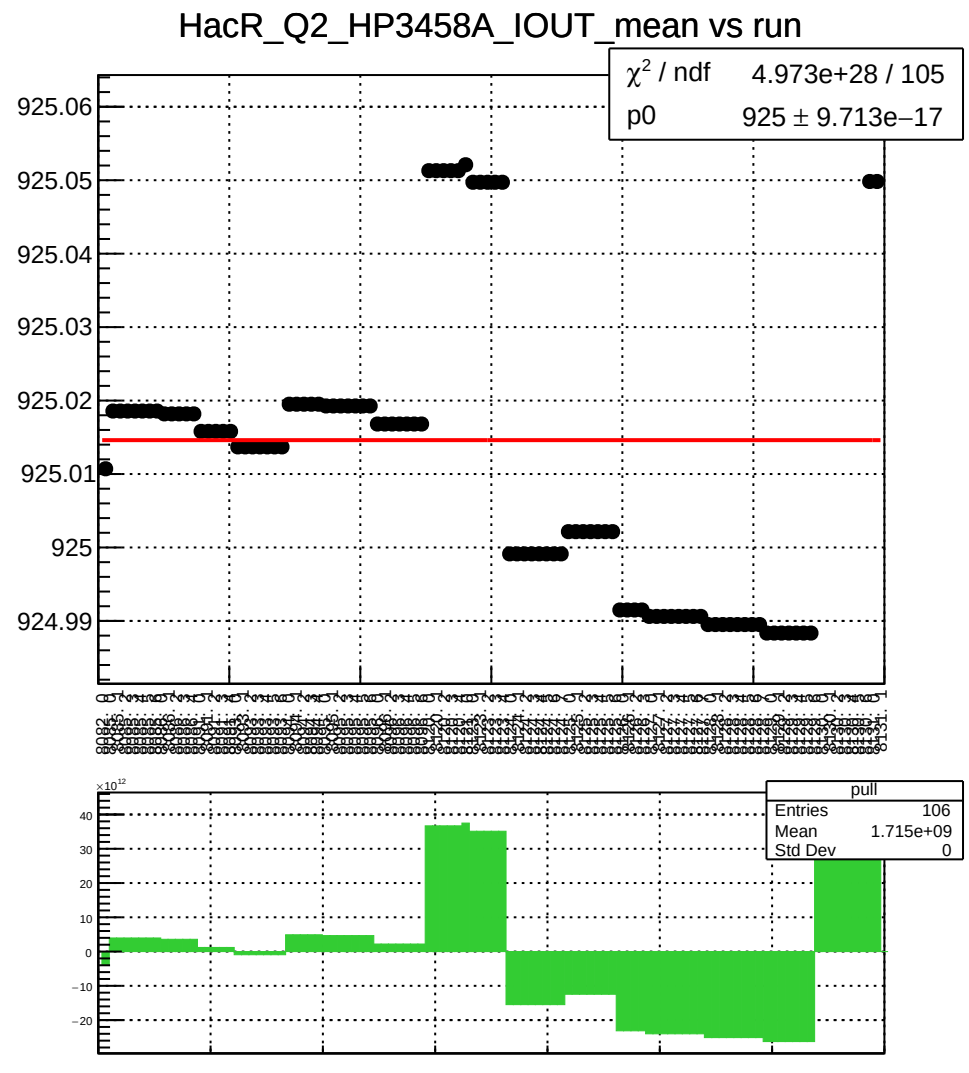

pull1D
Entries 106
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

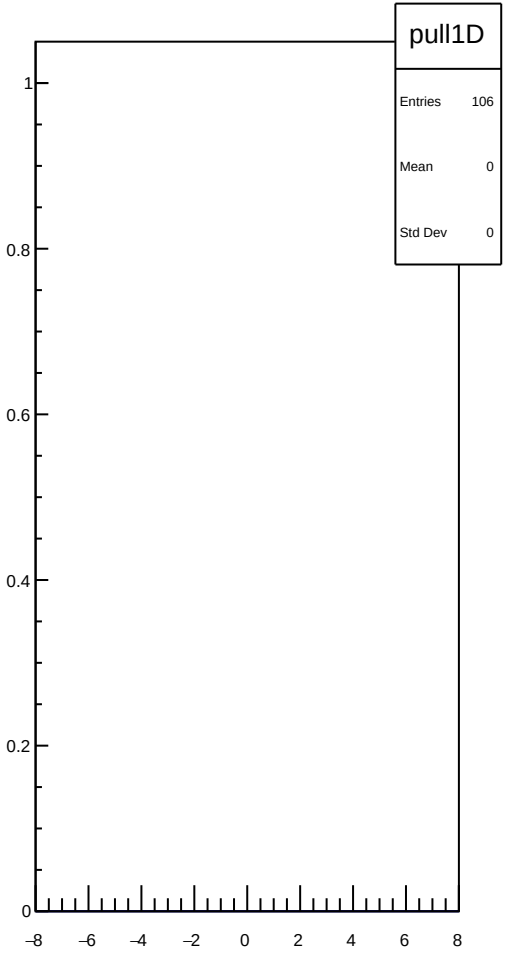

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 3.197e+26 / 105
p0 980.8 ± 9.713e−17
980.788
980.787
980.786
980.785
980.784
980.783
980.782
pull
Entries 106
Mean −6.505e+09
Std Dev 0
×10⁹
2000
1000
0
−1000
−2000
−3000

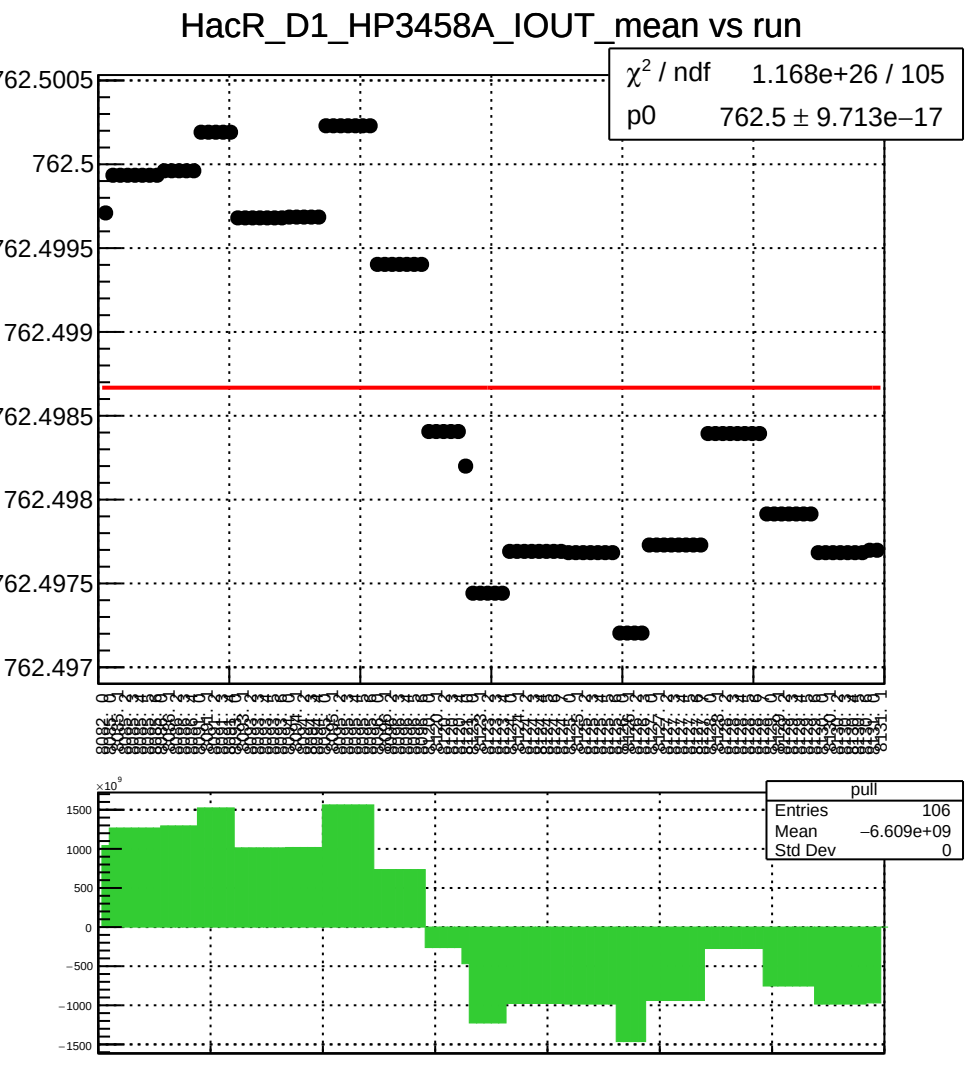

pull1D
Entries 106
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

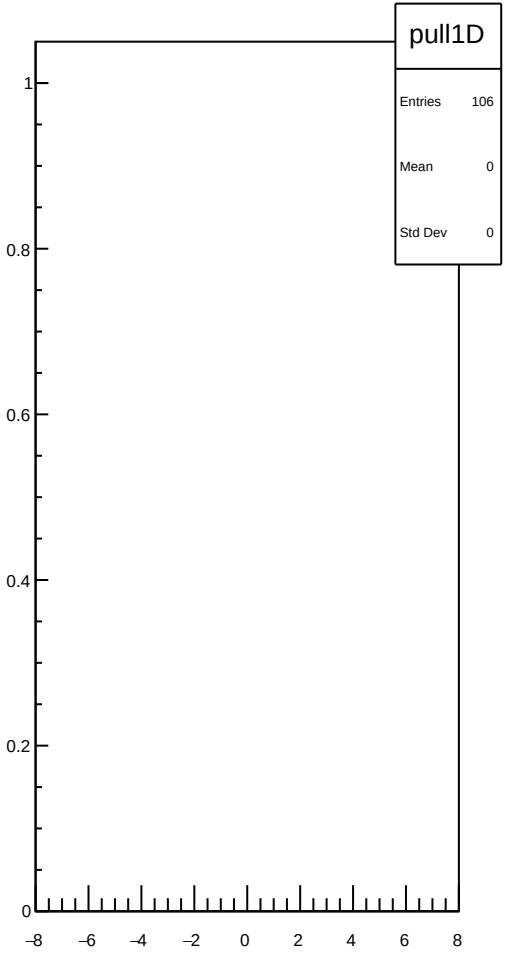

MQ172RM_mean vs run
×10⁻³
χ² / ndf 0.1152 / 105
p0 0.009375 ± 9.713e−17
pull
Entries 106
Mean 53
Std Dev 30.6

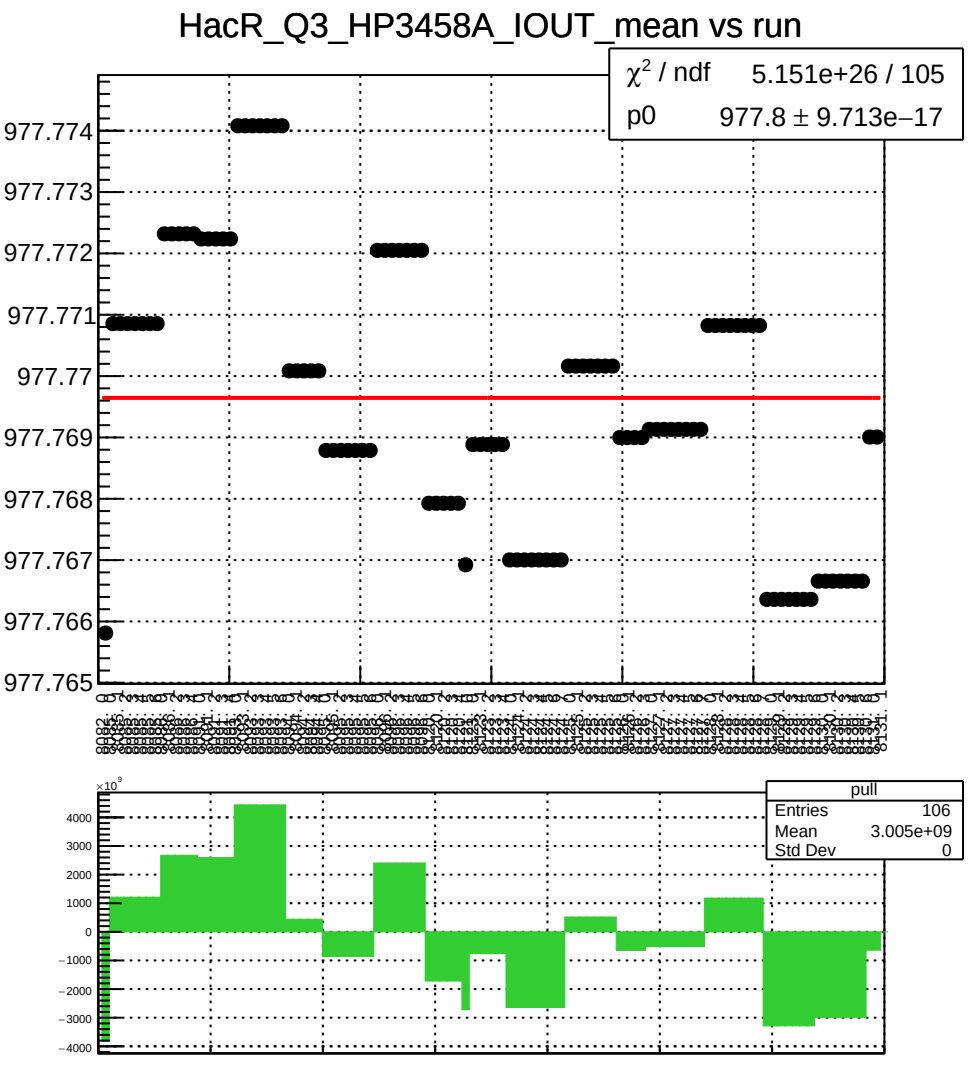

pull1D
Entries 106
Mean 0.03296
Std Dev 0

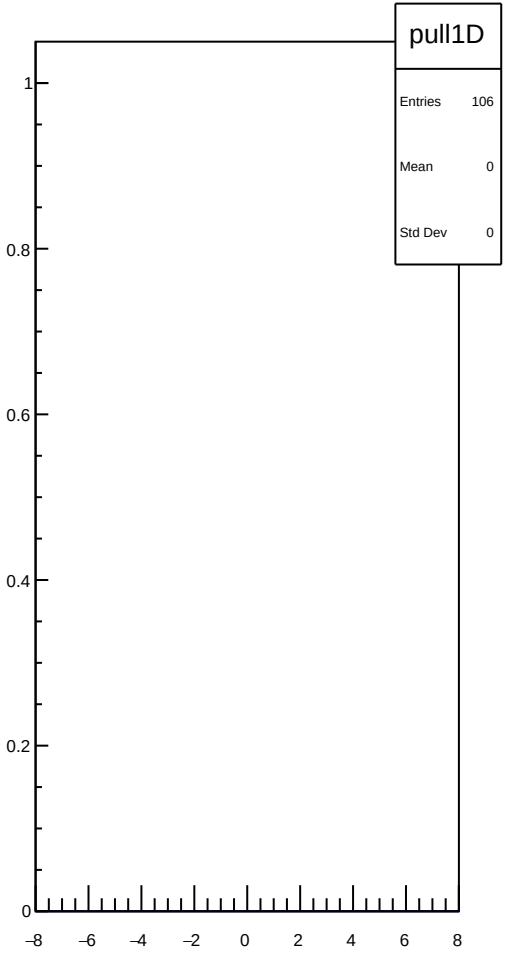

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 4.973e+28 / 105
p0 925 ± 9.713e−17
925.06
925.05
925.04
925.03
925.02
925.01
925
924.99
pull
Entries 106
Mean 1.715e+09
Std Dev 0
×10¹²
40
30
20
10
0
−10
−20

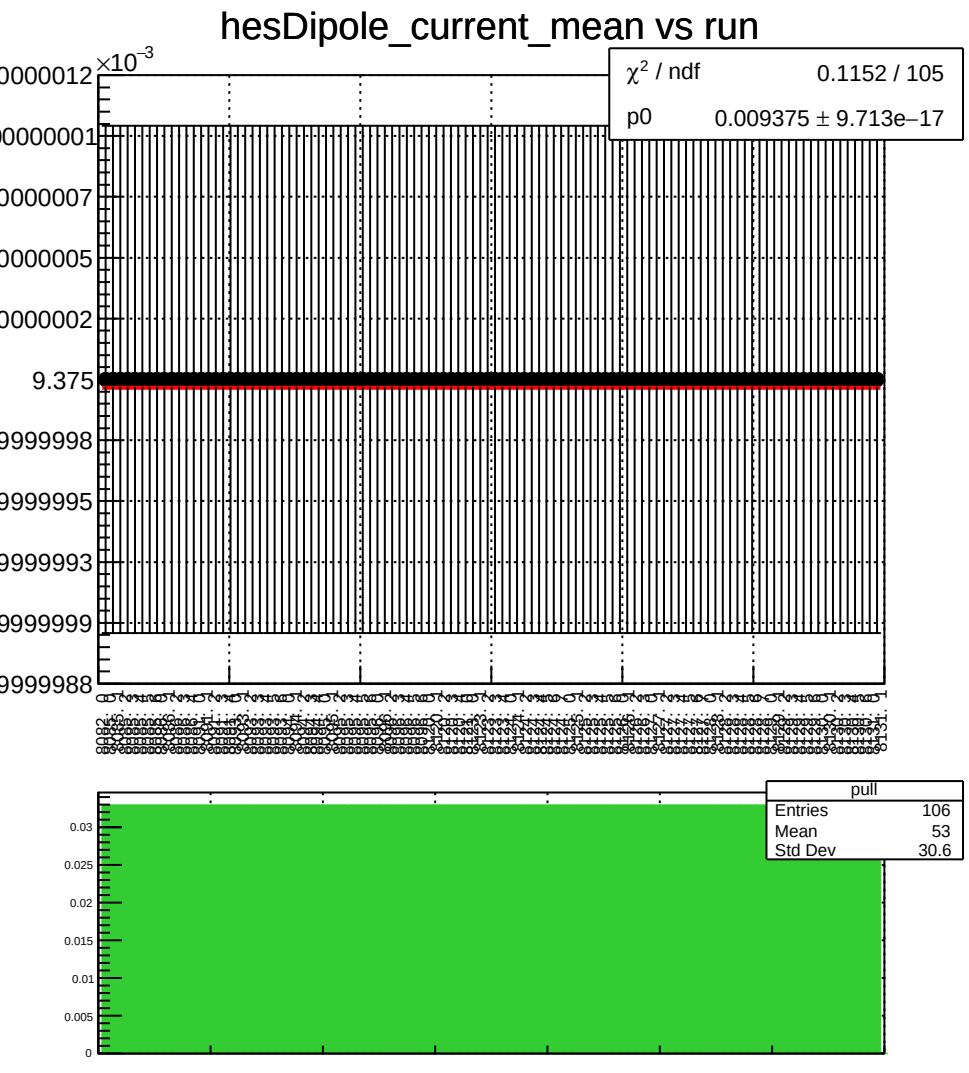

pull1D
Entries 106
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

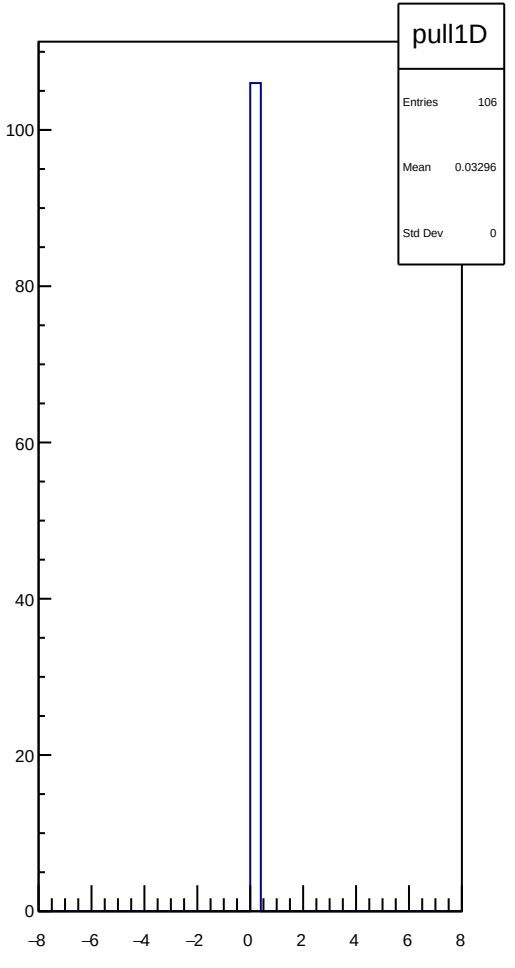

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 1.168e+26 / 105
p0 762.5 ± 9.713e−17
762.5005
762.5
762.4995
762.499
762.4985
762.498
762.4975
762.497
×10⁹
1500
1000
500
0
−500
−1000
−1500
pull
Entries 106
Mean −6.609e+09
Std Dev 0

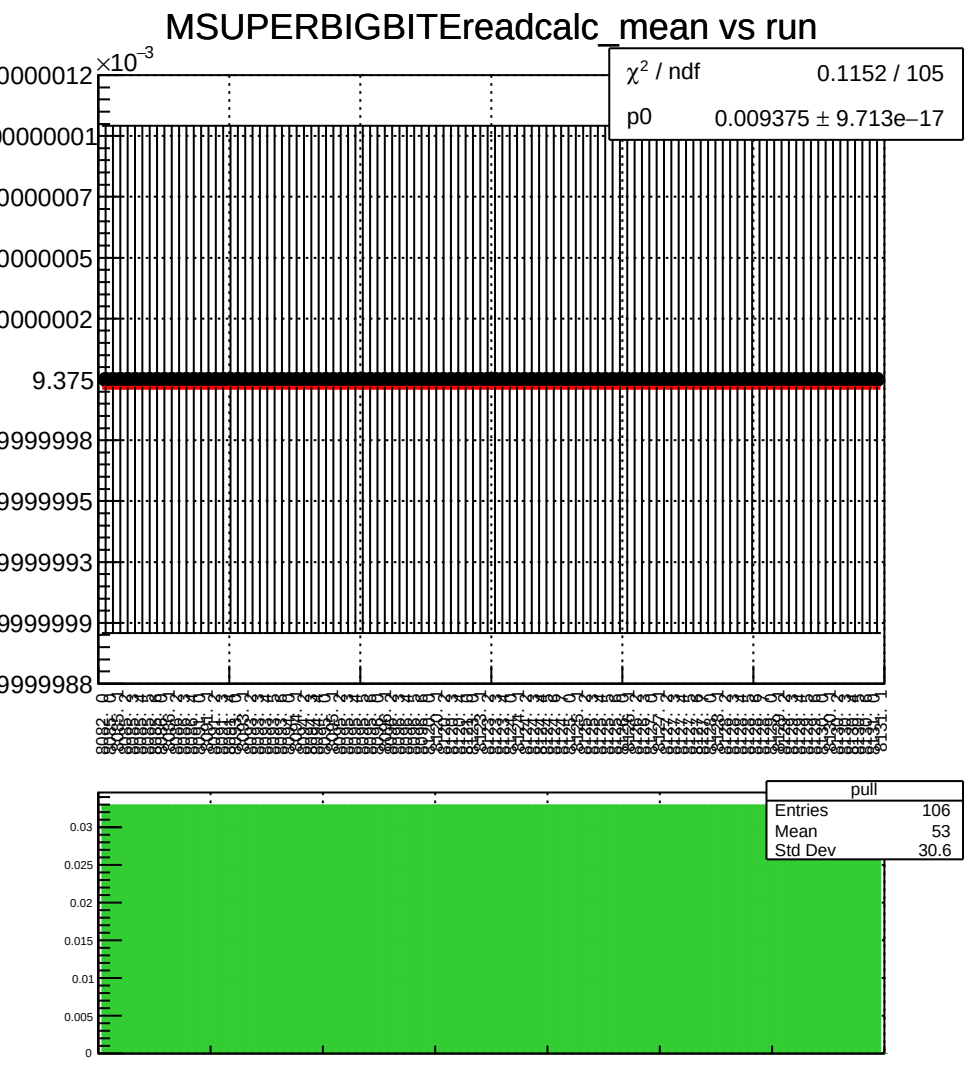

pull1D
Entries 106
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

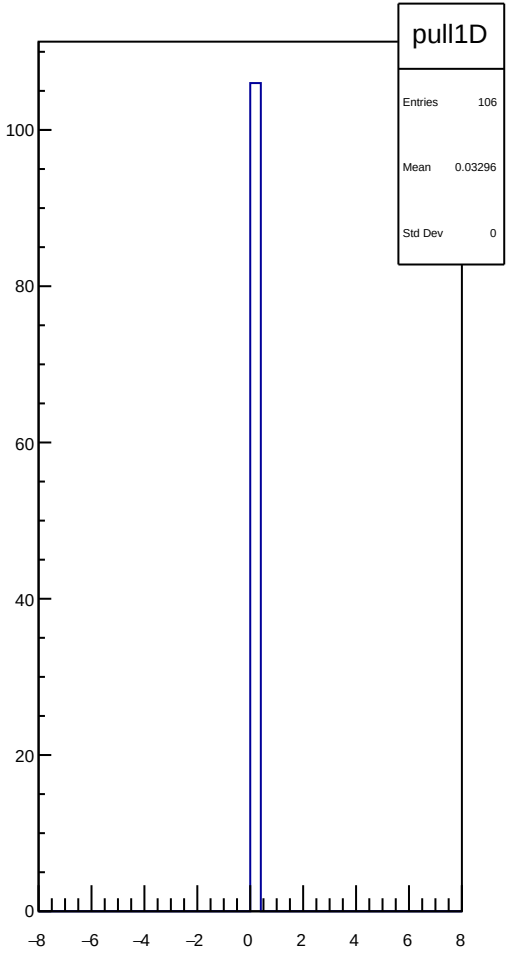

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 5.151e+26 / 105
p0 977.8 ± 9.713e−17
977.774
977.773
977.772
977.771
977.77
977.769
977.768
977.767
977.766
977.765
pull
Entries 106
Mean 3.005e+09
Std Dev 0
×10⁹
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000

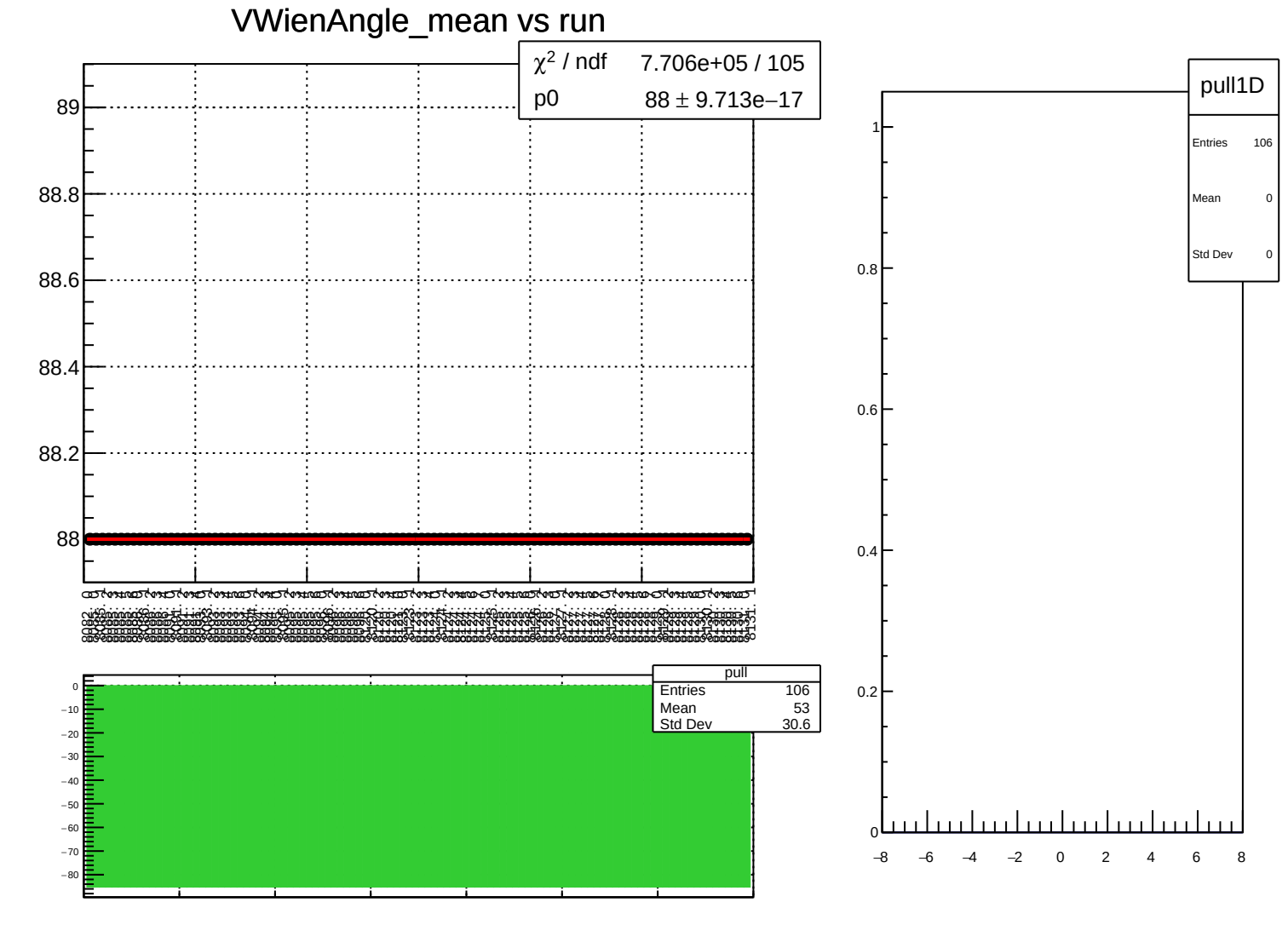

pull1D
Entries 106
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

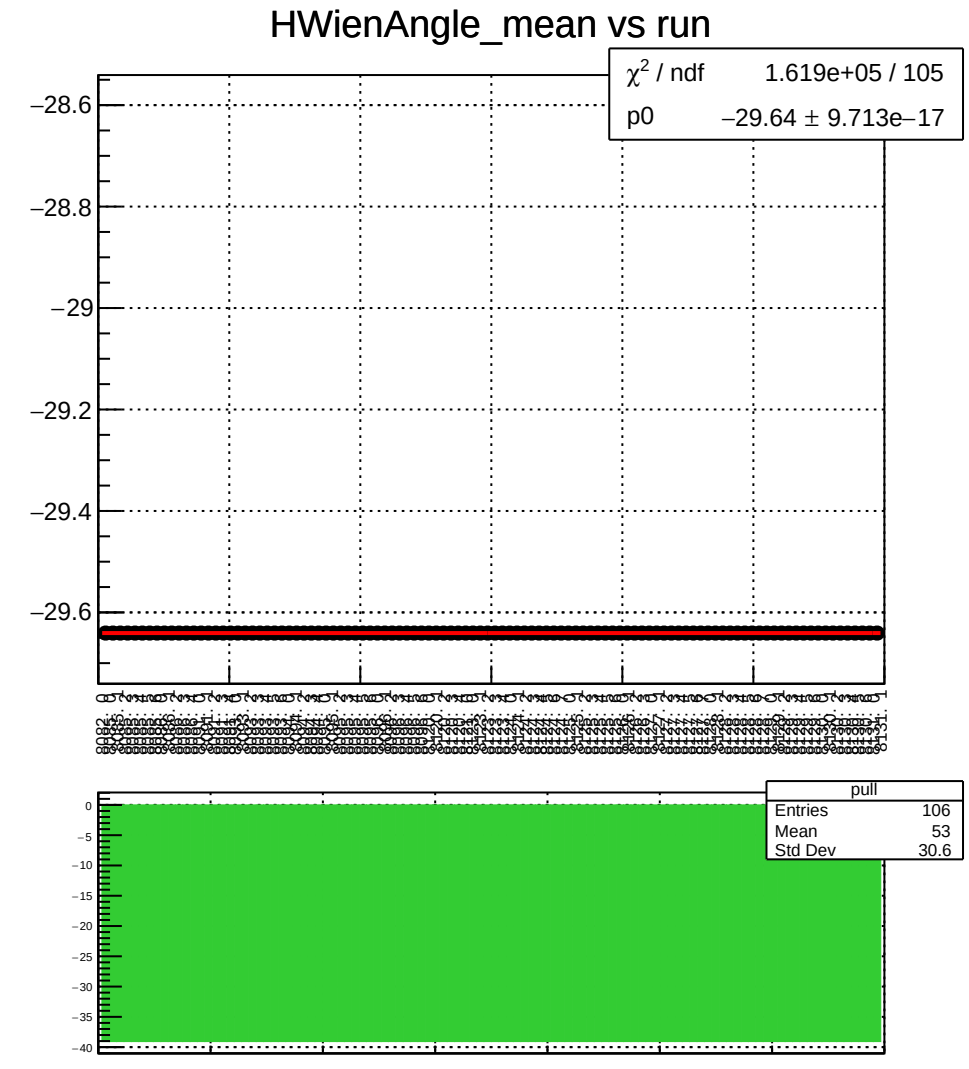

hesDipole_current_mean vs run
×10⁻³
χ² / ndf 0.1152 / 105
p0 0.009375 ± 9.713e−17
9.375
pull
Entries 106
Mean 53
Std Dev 30.6
0.03
0.025
0.02
0.015
0.01
0.005
0

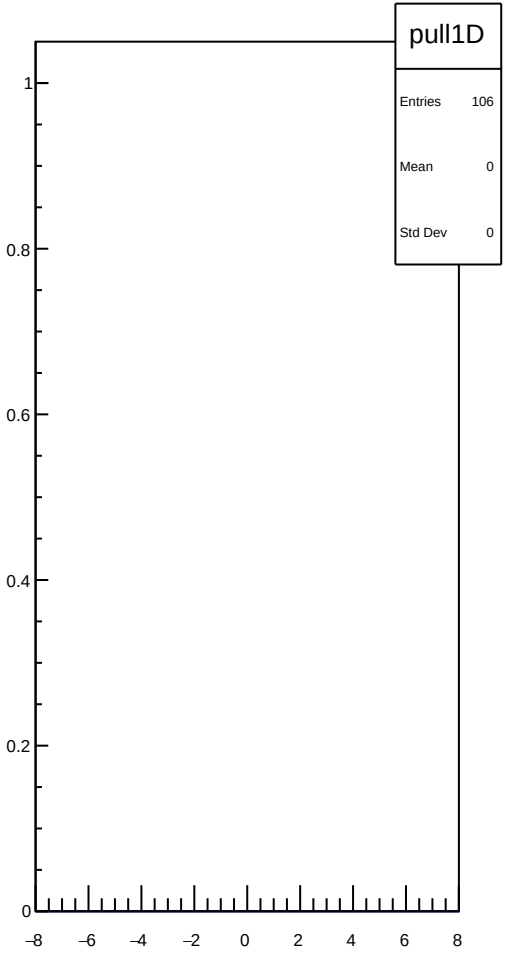

pull1D
Entries 106
Mean 0.03296
Std Dev 0
100
80
60
40
20
0
−8
−6
−4
−2
0
2
4
6
8

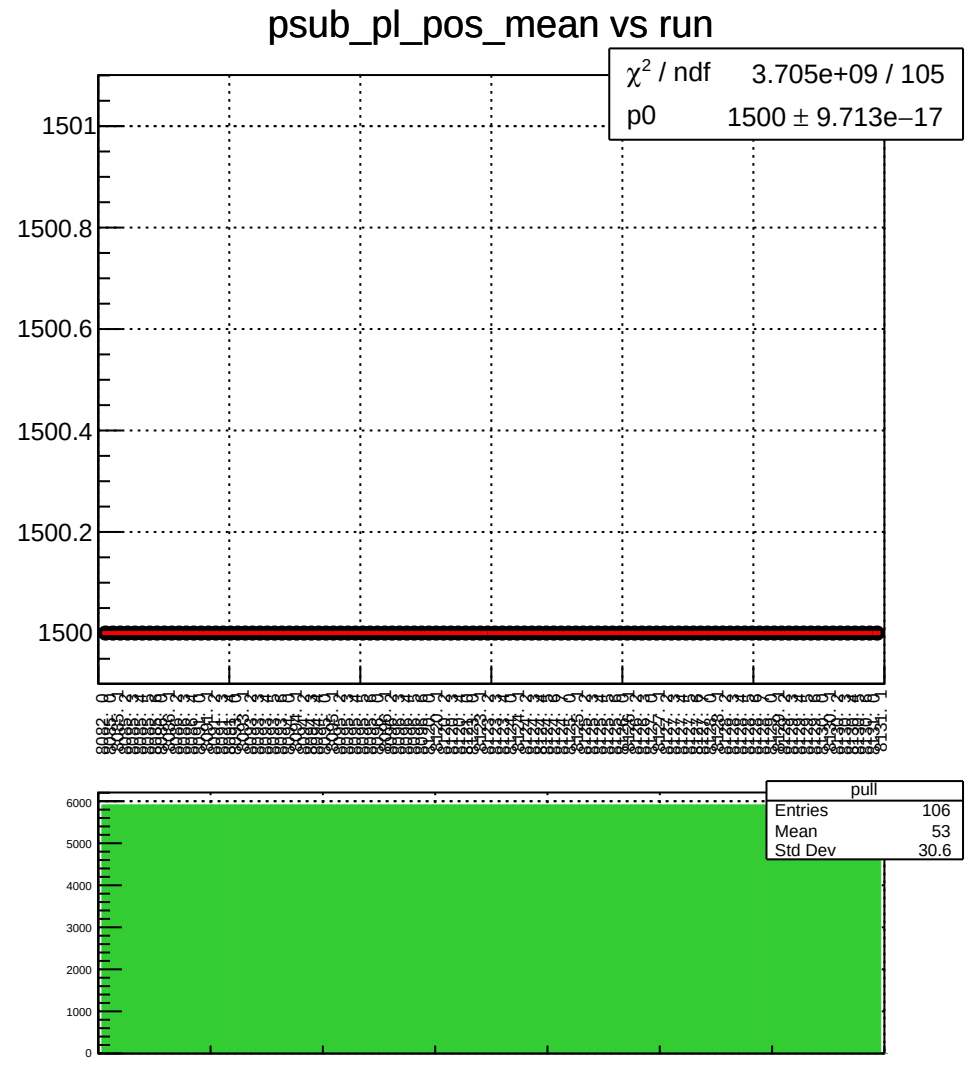

MSUPERBIGBITEreadcalc_mean vs run
χ² / ndf 0.1152 / 105
p0 0.009375 ± 9.713e−17
×10⁻³
pull
Entries 106
Mean 53
Std Dev 30.6

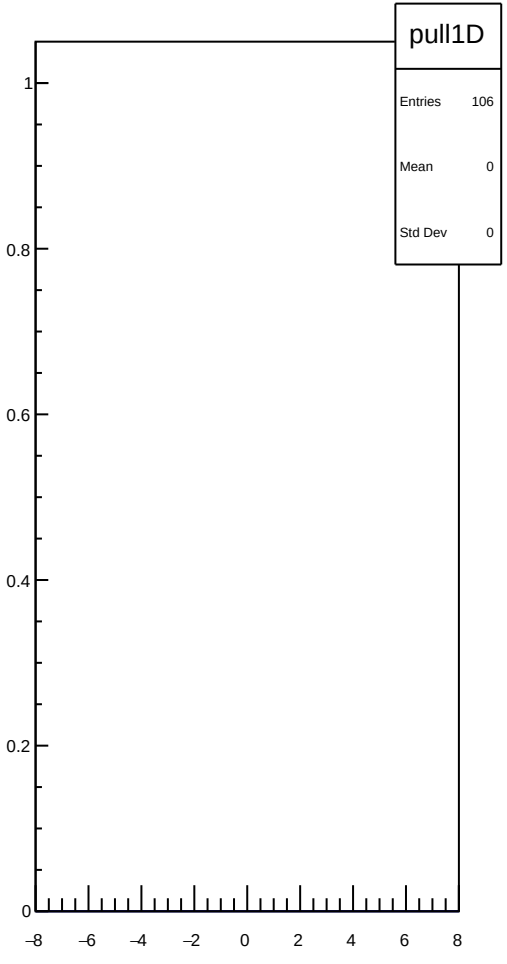

pull1D
Entries 106
Mean 0.03296
Std Dev 0

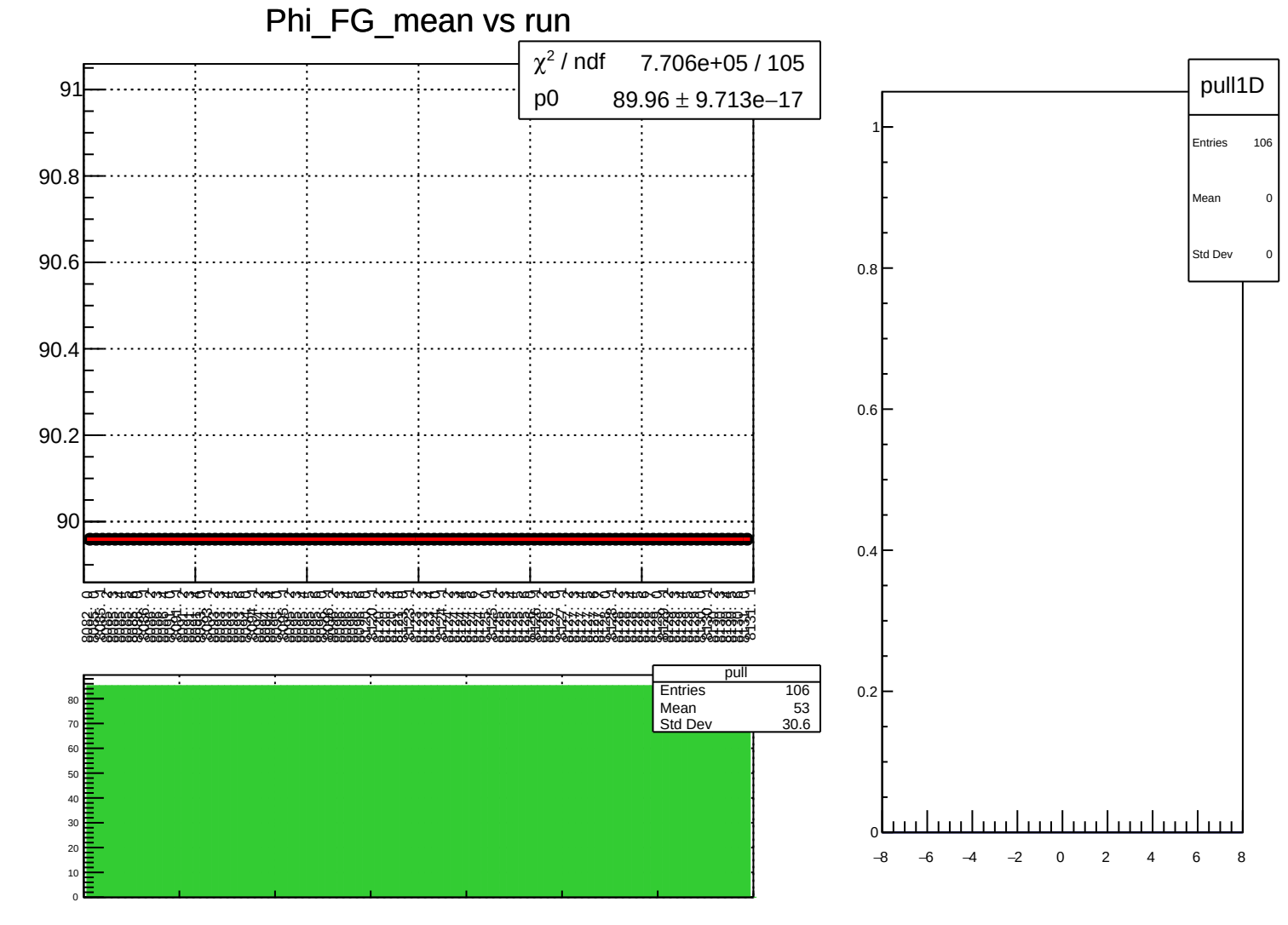

VWienAngle_mean vs run
χ² / ndf 7.706e+05 / 105
p0 88 ± 9.713e−17
89
88.8
88.6
88.4
88.2
88
pull
Entries 106
Mean 53
Std Dev 30.6
0
−10
−20
−30
−40
−50
−60
−70
−80
pull1D
Entries 106
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

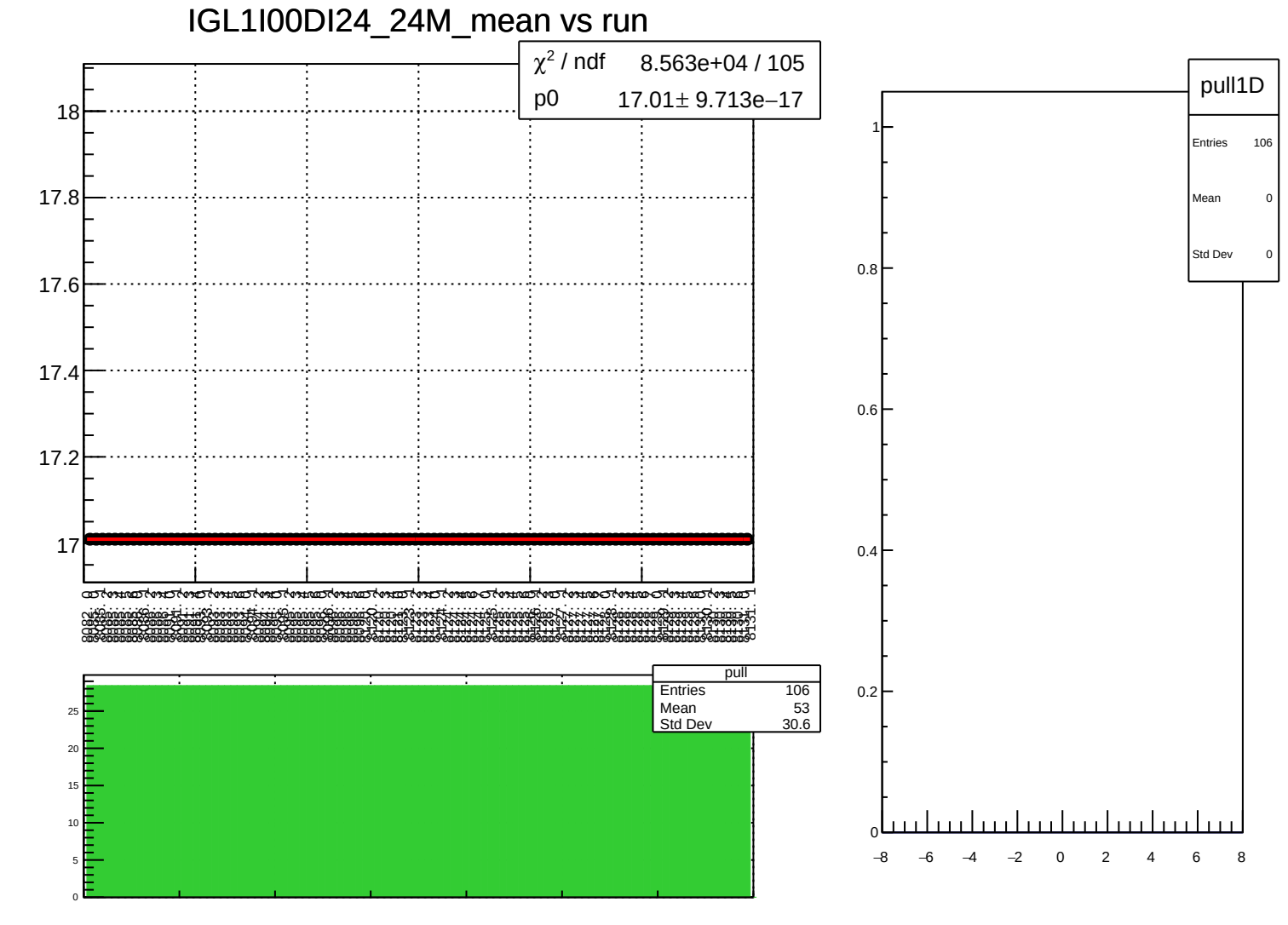

HWienAngle_mean vs run
χ² / ndf 1.619e+05 / 105
p0 −29.64 ± 9.713e−17
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 106
Mean 53
Std Dev 30.6
0
−5
−10
−15
−20
−25
−30
−35
−40

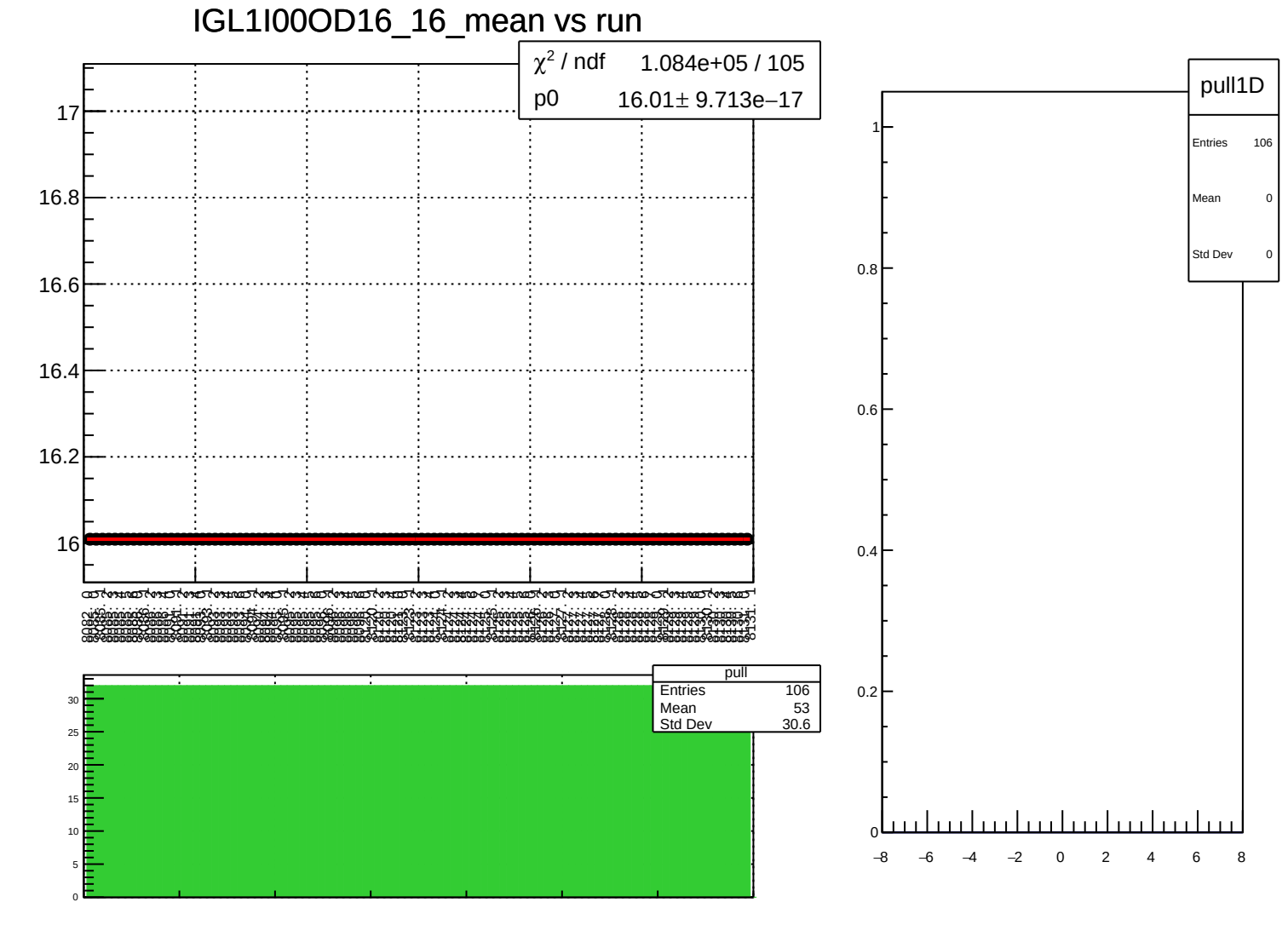

pull1D
Entries 106
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

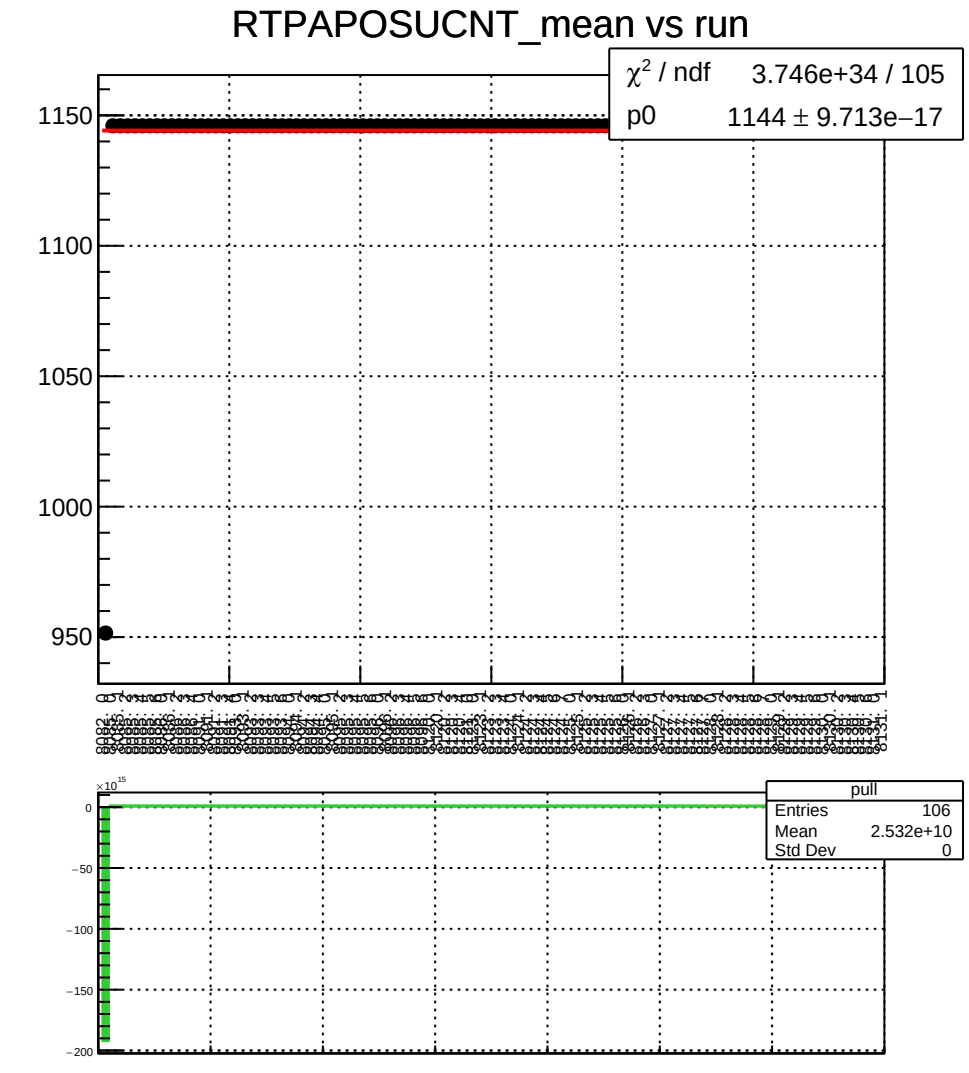

psub_pl_pos_mean vs run
χ² / ndf 3.705e+09 / 105
p0 1500 ± 9.713e−17
1501
1500.8
1500.6
1500.4
1500.2
1500
pull
Entries 106
Mean 53
Std Dev 30.6
6000
5000
4000
3000
2000
1000
0

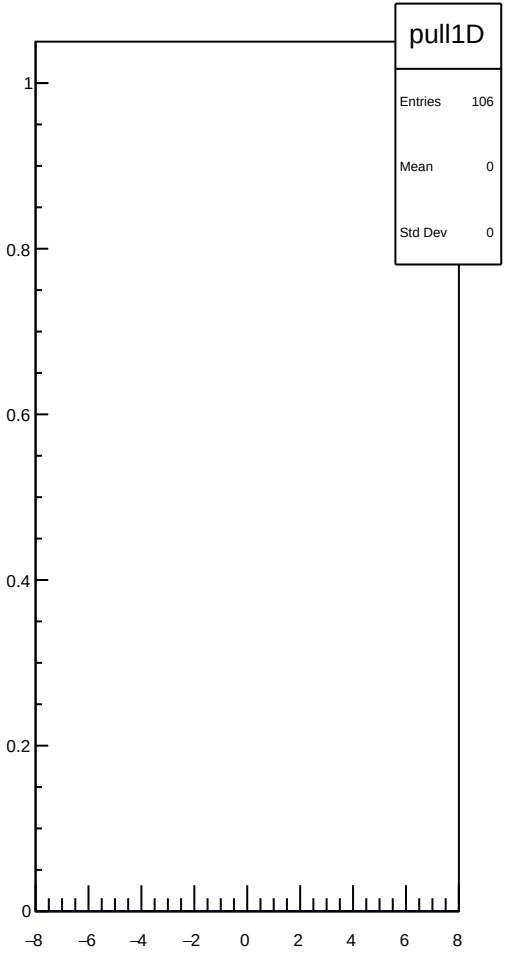

pull1D
Entries 106
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

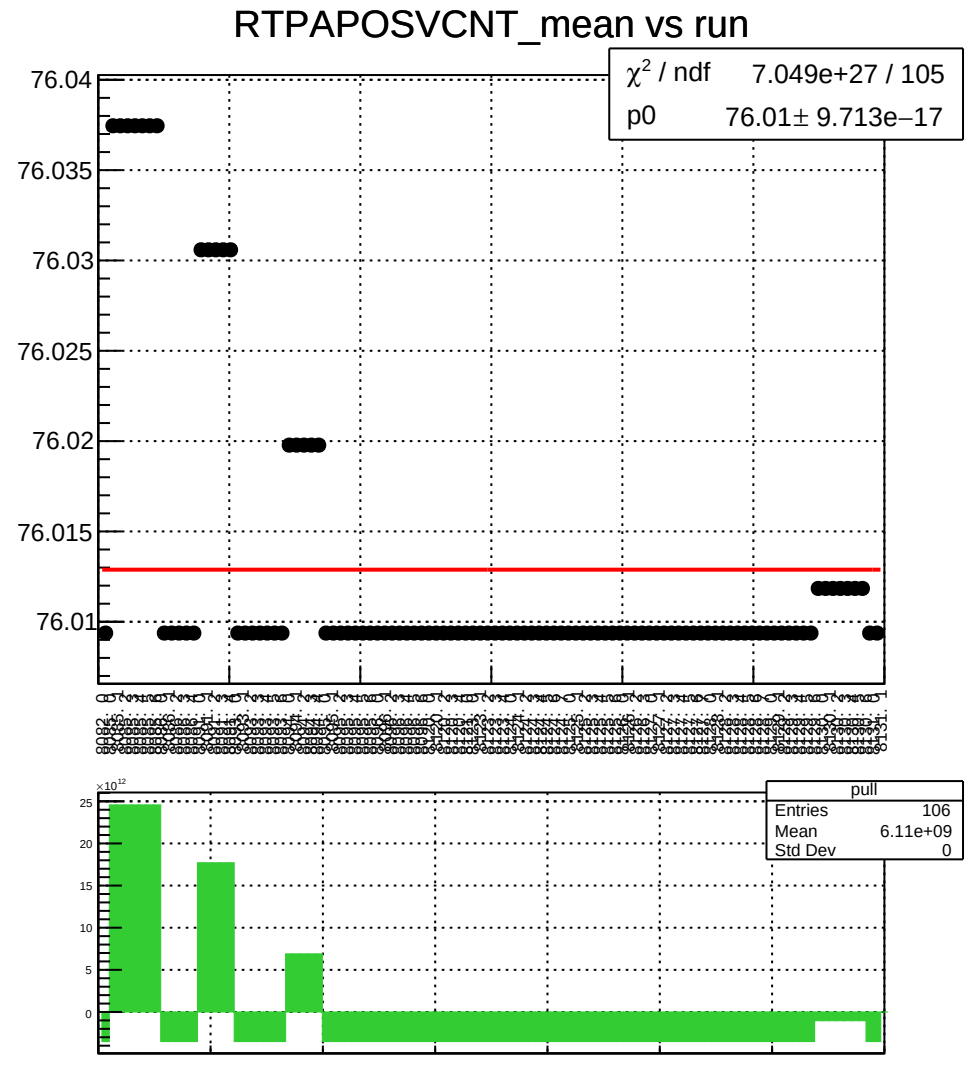

Phi_FG_mean vs run
χ² / ndf 7.706e+05 / 105
p0 89.96 ± 9.713e−17
91
90.8
90.6
90.4
90.2
90
pull
Entries 106
Mean 53
Std Dev 30.6
80
70
60
50
40
30
20
10
0
pull1D
Entries 106
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

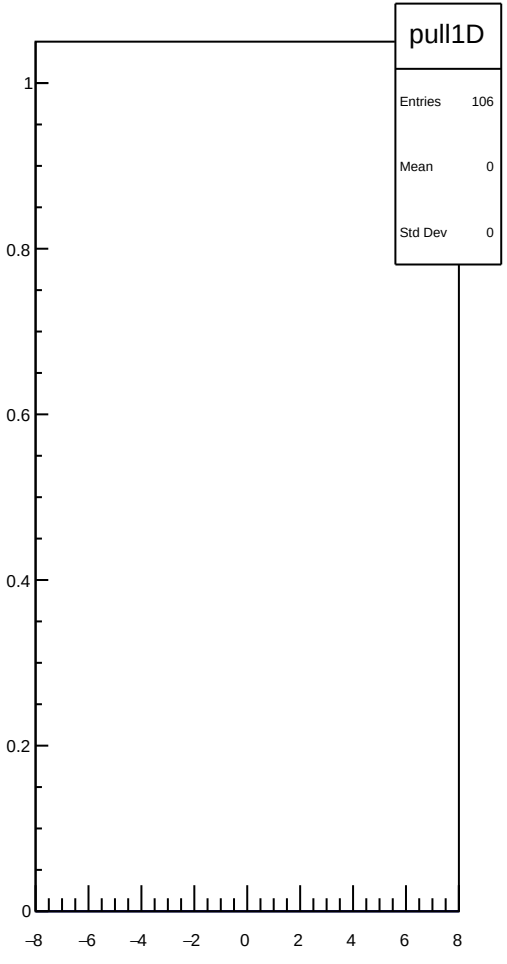

IGL1I00DI24_24M_mean vs run
χ² / ndf 8.563e+04 / 105
p0 17.01± 9.713e−17
18
17.8
17.6
17.4
17.2
17
pull
Entries 106
Mean 53
Std Dev 30.6
25
20
15
10
5
0
pull1D
Entries 106
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

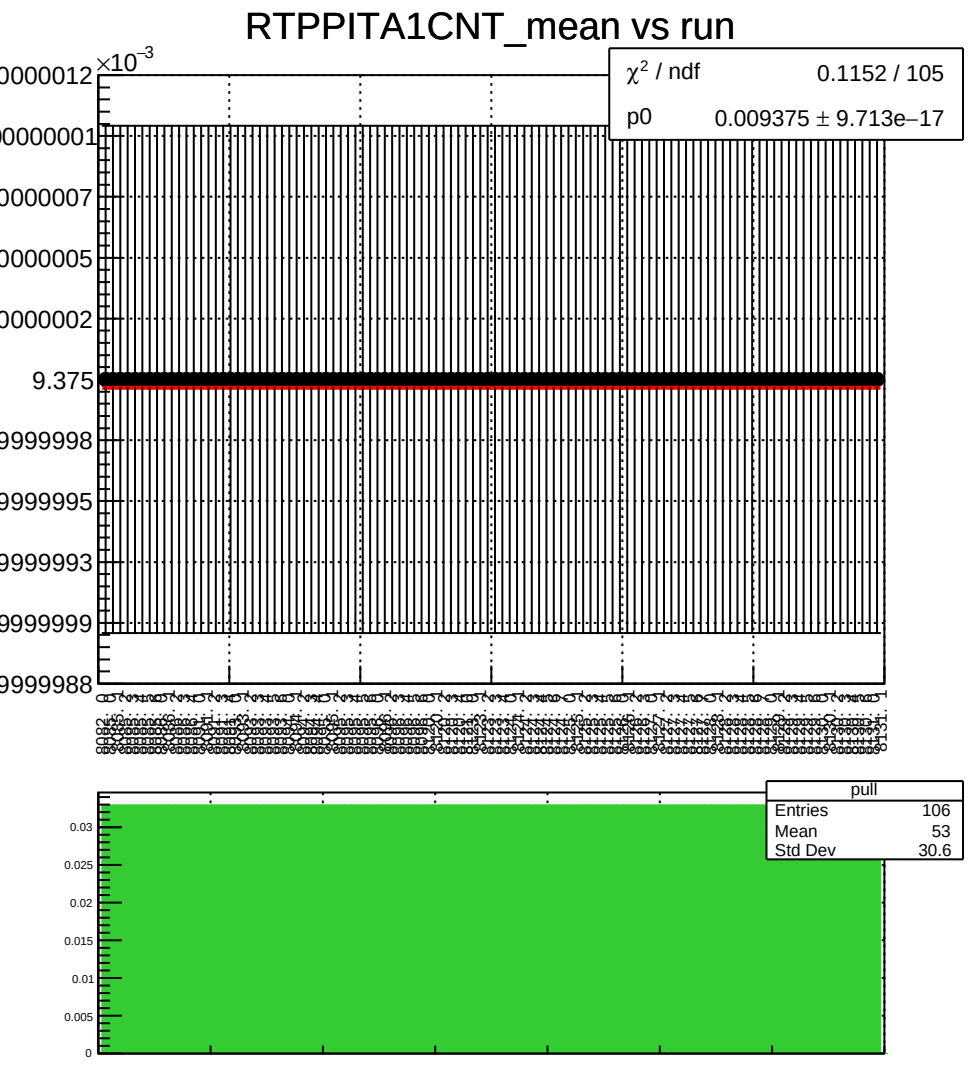

IGL1I00OD16_16_mean vs run
χ² / ndf 1.084e+05 / 105
p0 16.01± 9.713e−17
17
16.8
16.6
16.4
16.2
16
pull
Entries 106
Mean 53
Std Dev 30.6
30
25
20
15
10
5
0
pull1D
Entries 106
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

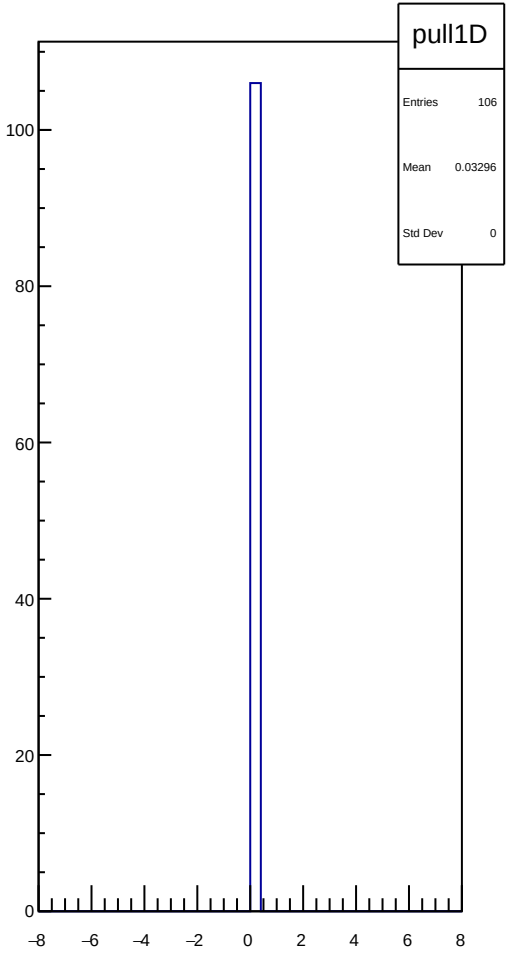

RTPAPOSUCNT_mean vs run
χ² / ndf 3.746e+34 / 105
p0 1144 ± 9.713e−17
1150
1100
1050
1000
950
pull
Entries 106
Mean 2.532e+10
Std Dev 0
×10¹⁵
0
−50
−100
−150
−200

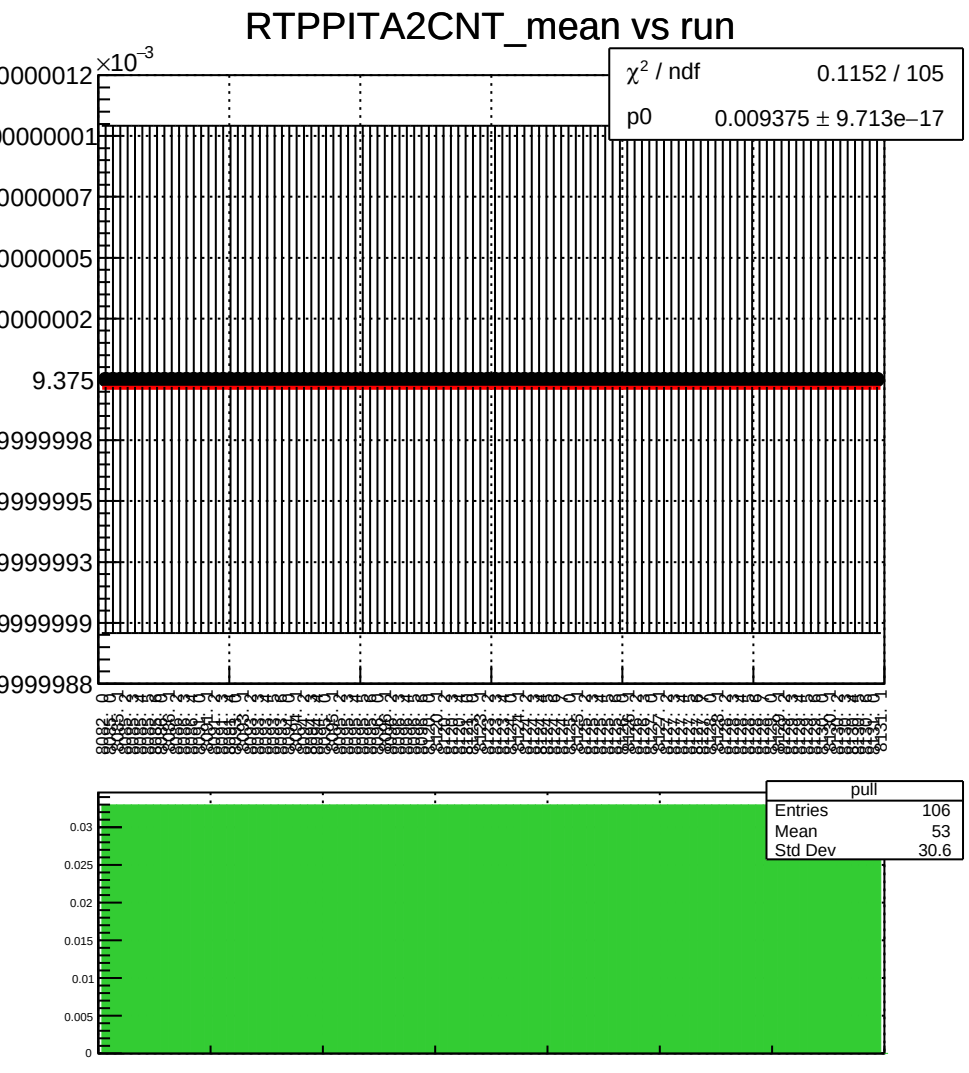

pull1D
Entries 106
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

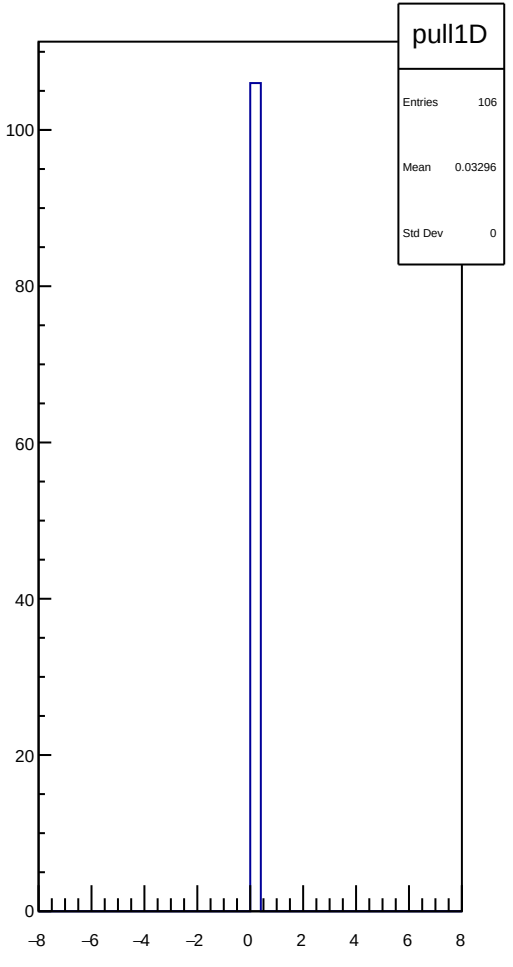

RTPAPOSVCNT_mean vs run
χ² / ndf 7.049e+27 / 105
p0 76.01± 9.713e−17
76.04
76.035
76.03
76.025
76.02
76.015
76.01
pull
Entries 106
Mean 6.11e+09
Std Dev 0
×10¹²
25
20
15
10
5
0


pull1D
Entries 106
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPPITA1CNT_mean vs run
χ² / ndf 0.1152 / 105
p0 0.009375 ± 9.713e−17
×10⁻³
pull
Entries 106
Mean 53
Std Dev 30.6


pull1D
Entries 106
Mean 0.03296
Std Dev 0


RTPPITA2CNT_mean vs run
×10⁻³
χ² / ndf 0.1152 / 105
p0 0.009375 ± 9.713e−17
9.375
pull
Entries 106
Mean 53
Std Dev 30.6


pull1D
Entries 106
Mean 0.03296
Std Dev 0