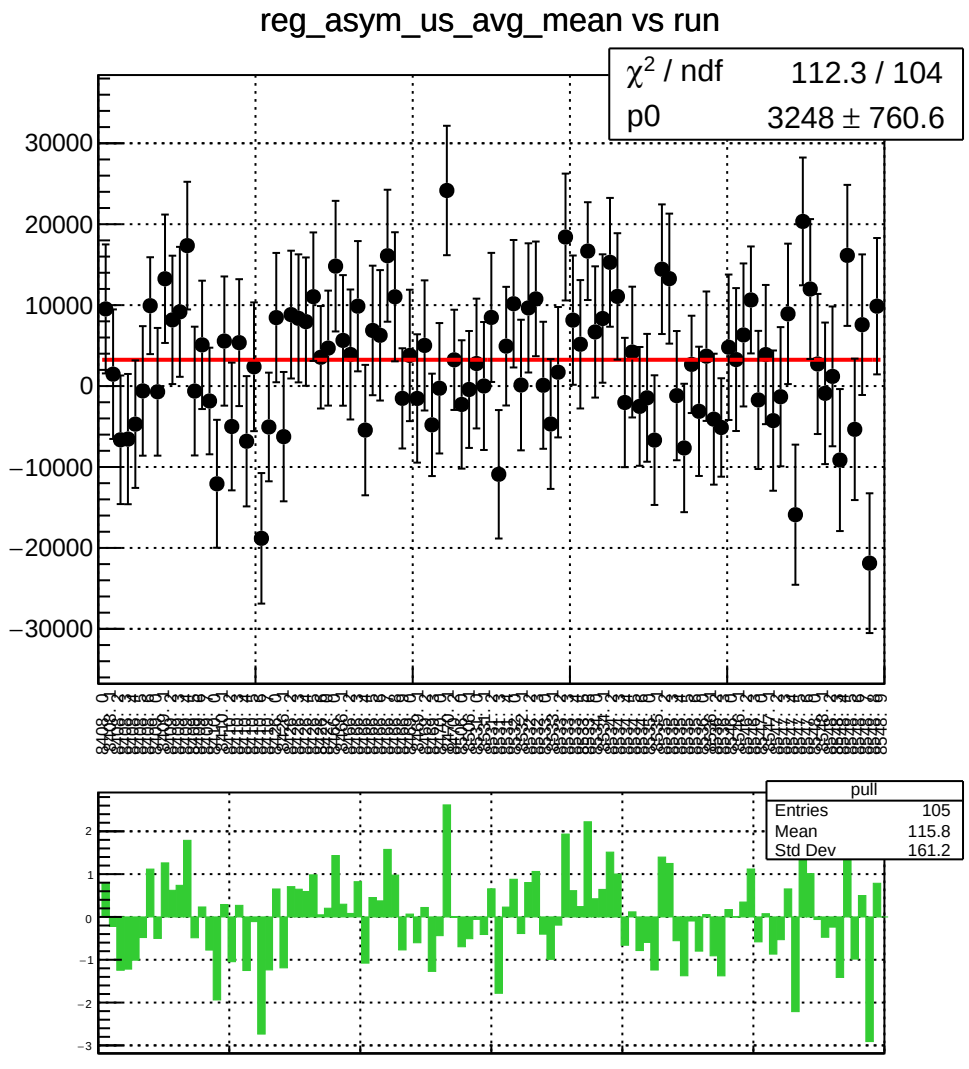
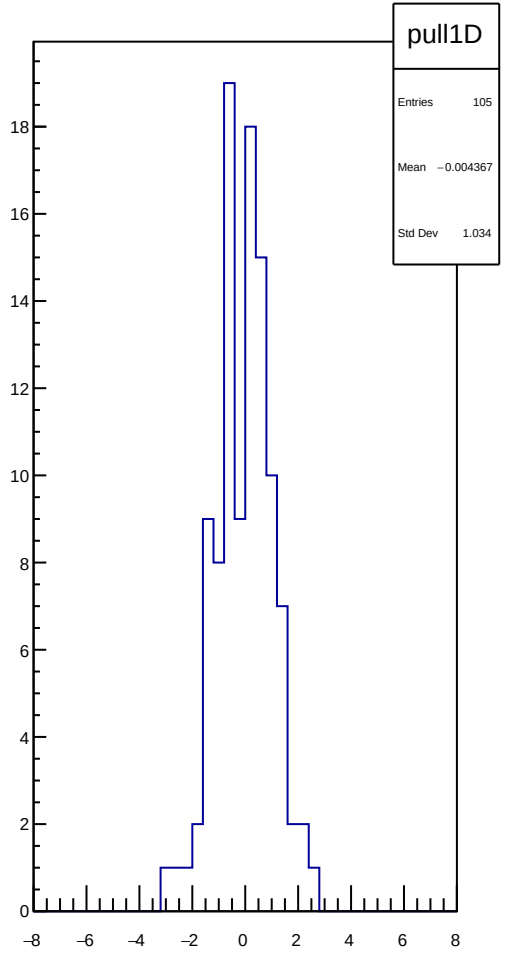

reg_asym_us_avg_mean vs run
χ² / ndf 112.3 / 104
p0 3248 ± 760.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 105
Mean 115.8
Std Dev 161.2
2
1
0
−1
−2
−3


pull1D
Entries 105
Mean −0.004367
Std Dev 1.034
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16
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12
10
8
6
4
2
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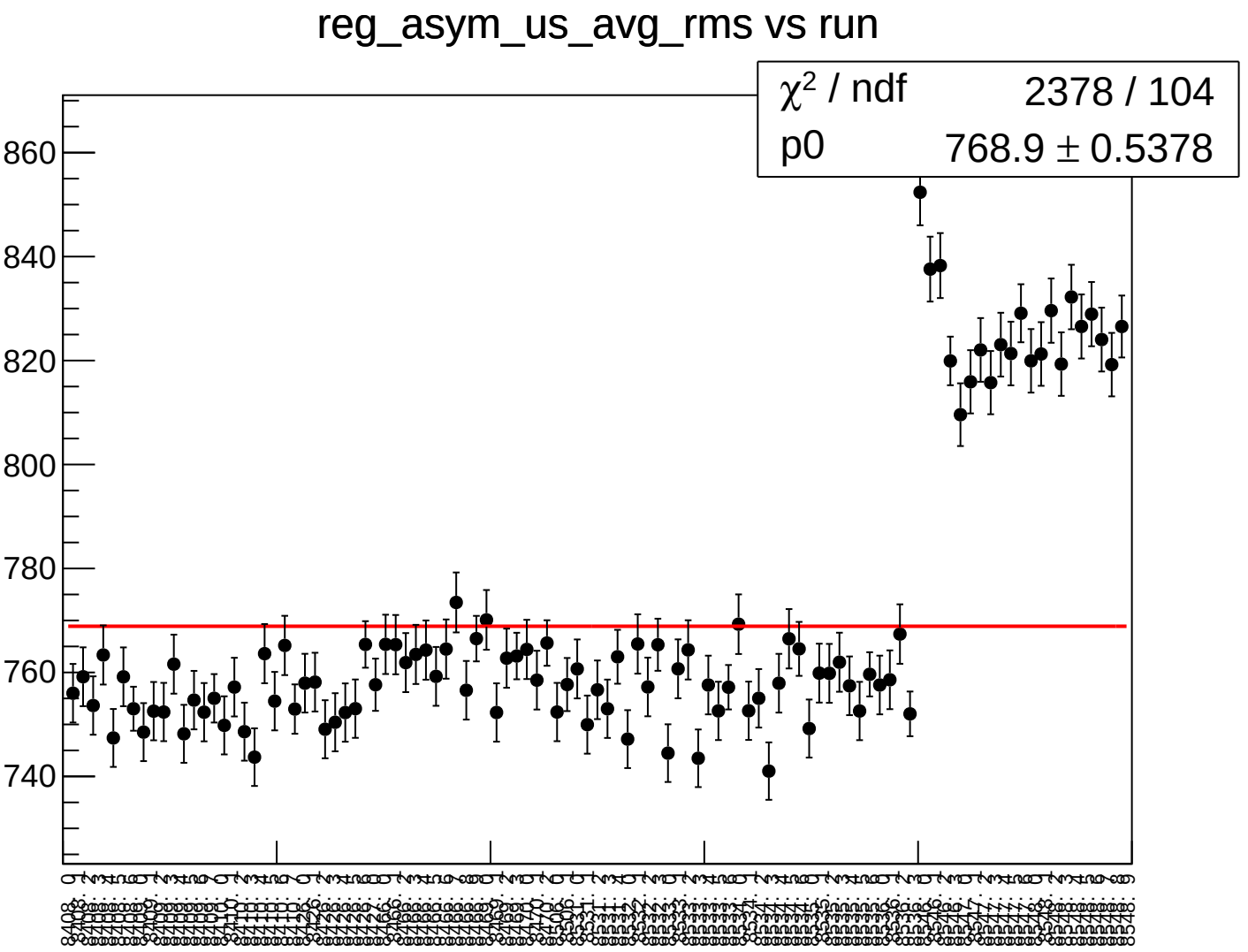
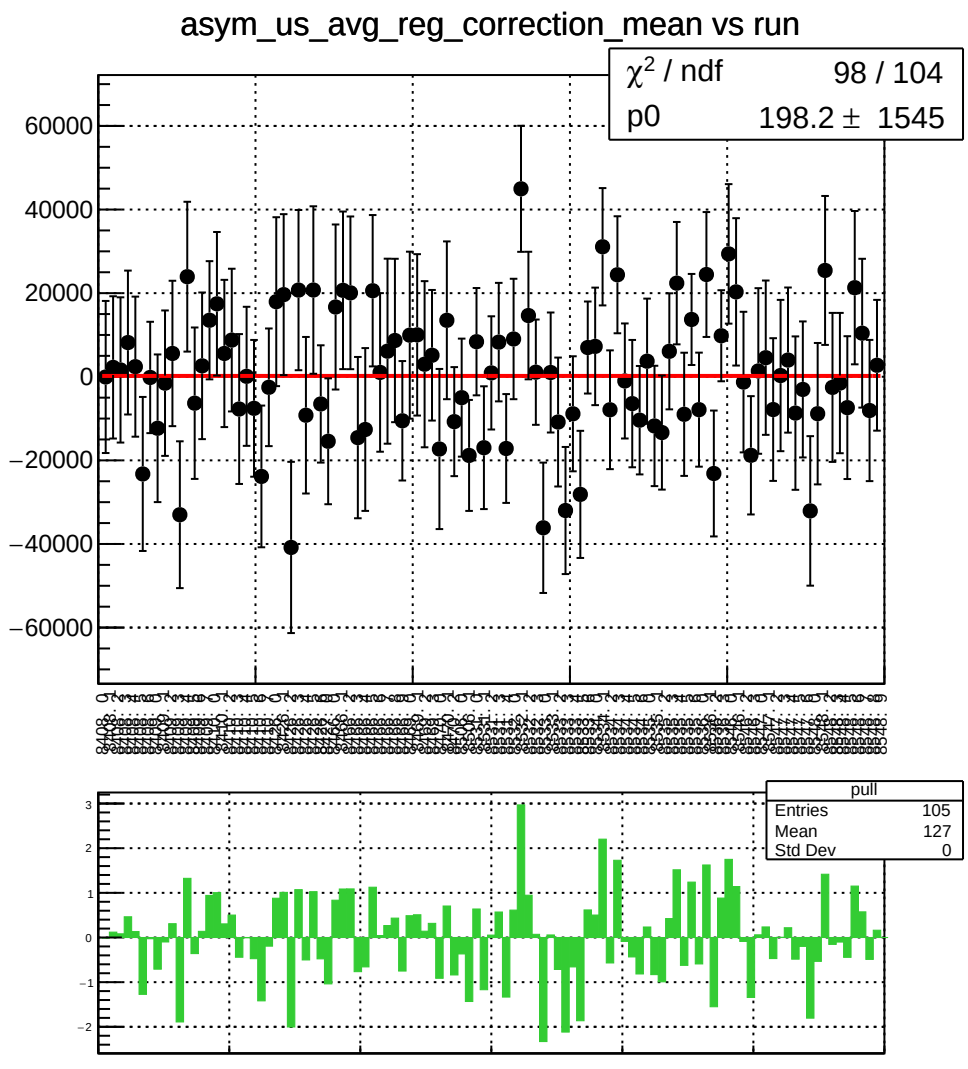
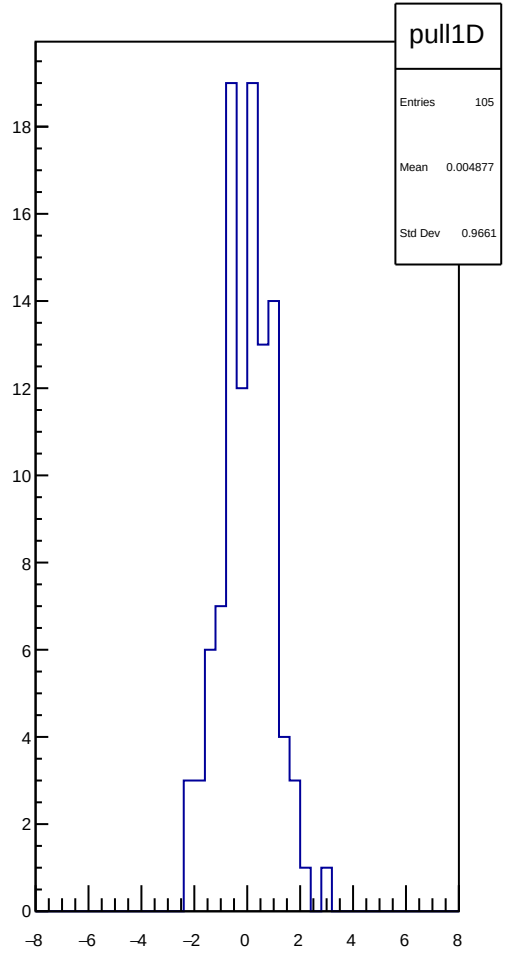
−8
−6
−4
−2
0
2
4
6
8


reg_asym_us_avg_rms vs run
χ² / ndf 2378 / 104
p0 768.9 ± 0.5378
860
840
820
800
780
760
740


asym_us_avg_reg_correction_mean vs run
χ² / ndf 98 / 104
p0 198.2 ± 1545
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean 127
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 105
Mean 0.004877
Std Dev 0.9661
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10
8
6
4
2
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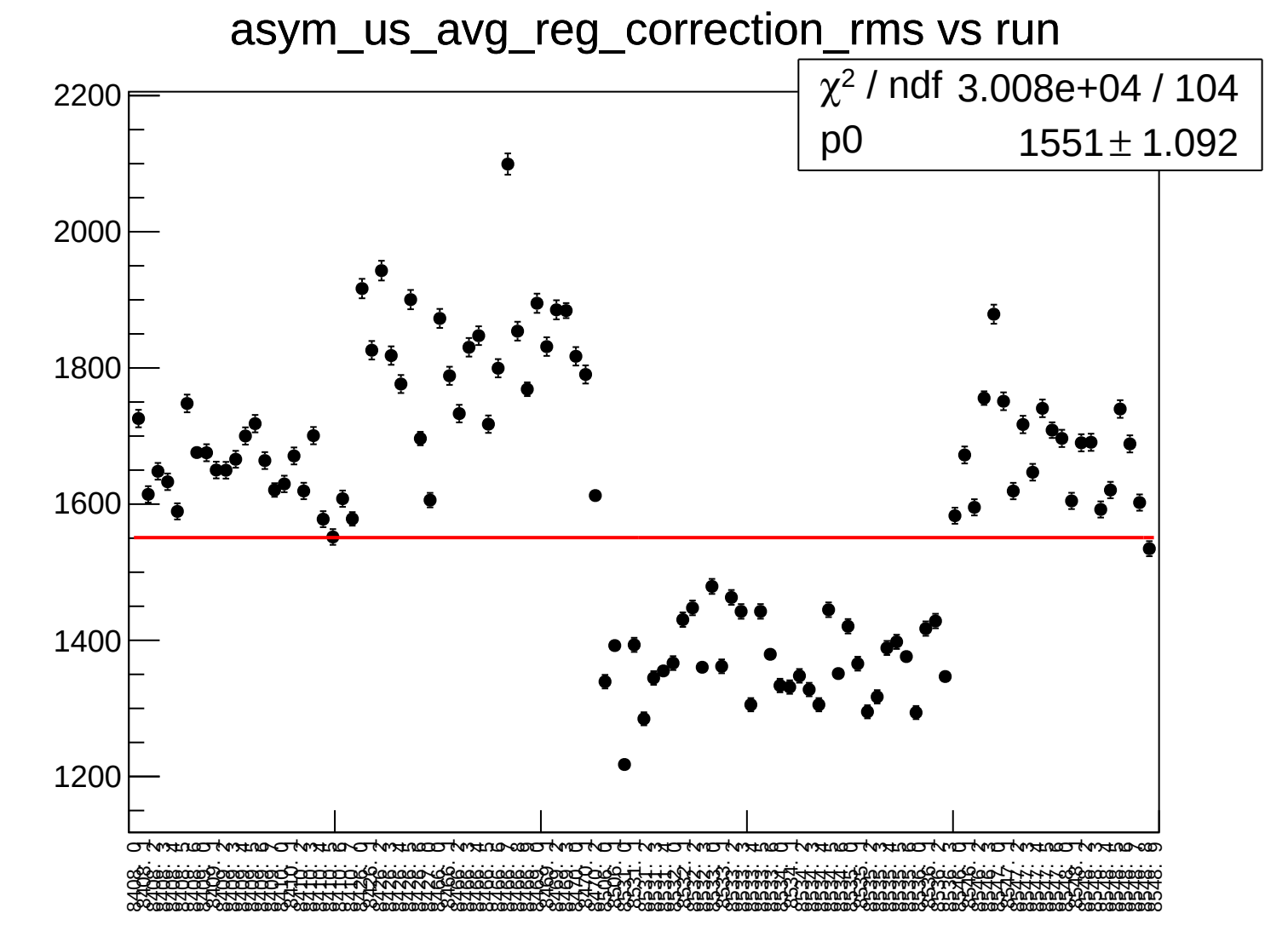
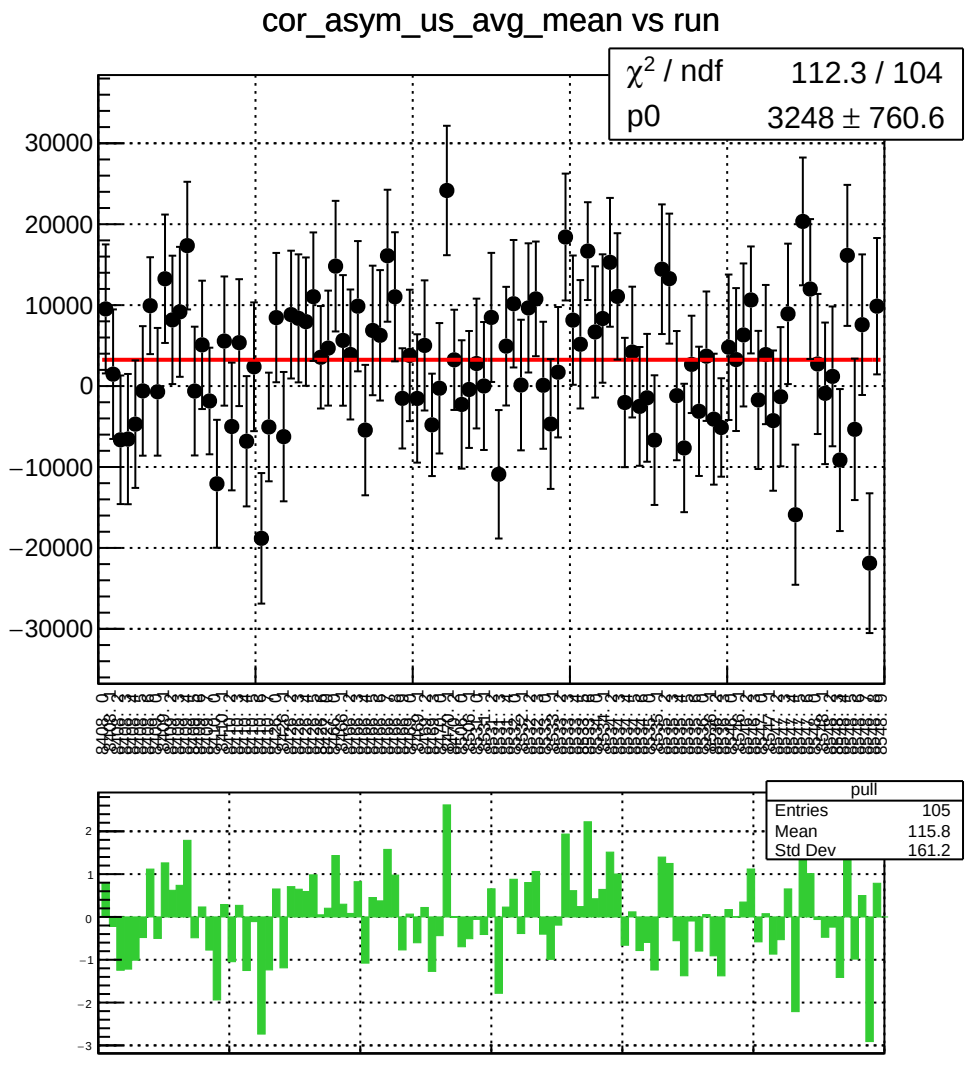
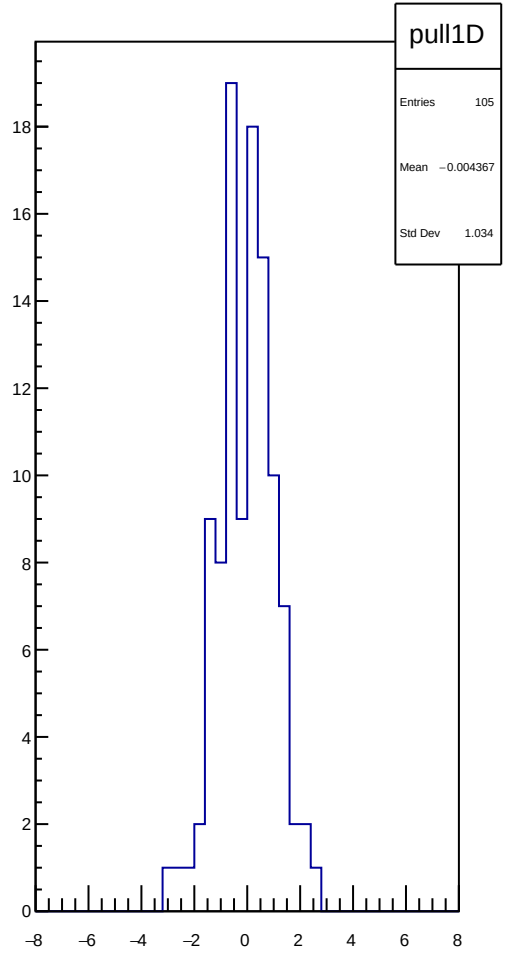
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_reg_correction_rms vs run
χ^2 / ndf 3.008e+04 / 104
p0 1551 ± 1.092
2200
2000
1800
1600
1400
1200


cor_asym_us_avg_mean vs run
χ² / ndf 112.3 / 104
p0 3248 ± 760.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 105
Mean 115.8
Std Dev 161.2
2
1
0
−1
−2
−3


pull1D
Entries 105
Mean −0.004367
Std Dev 1.034
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10
8
6
4
2
0
−8
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−4
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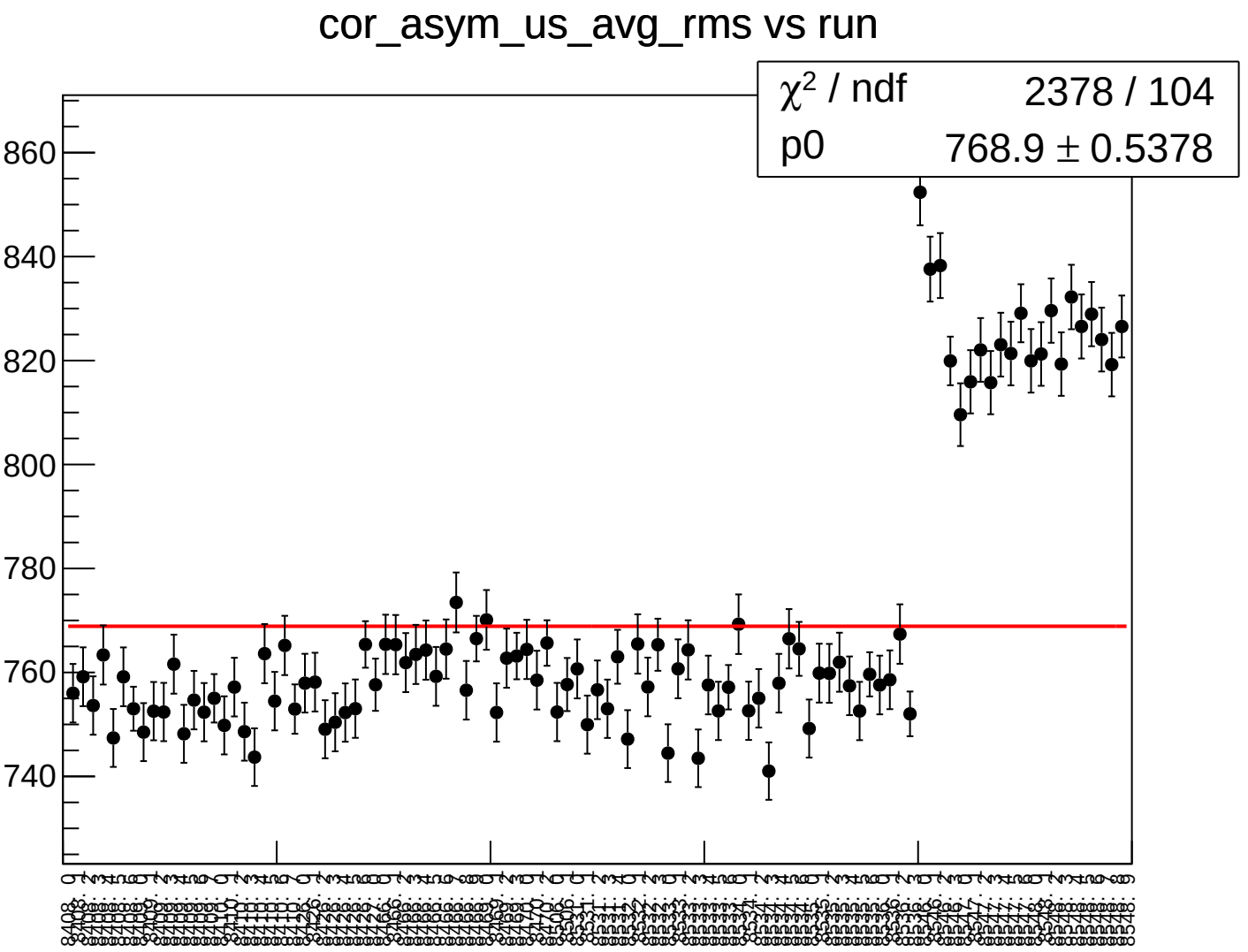
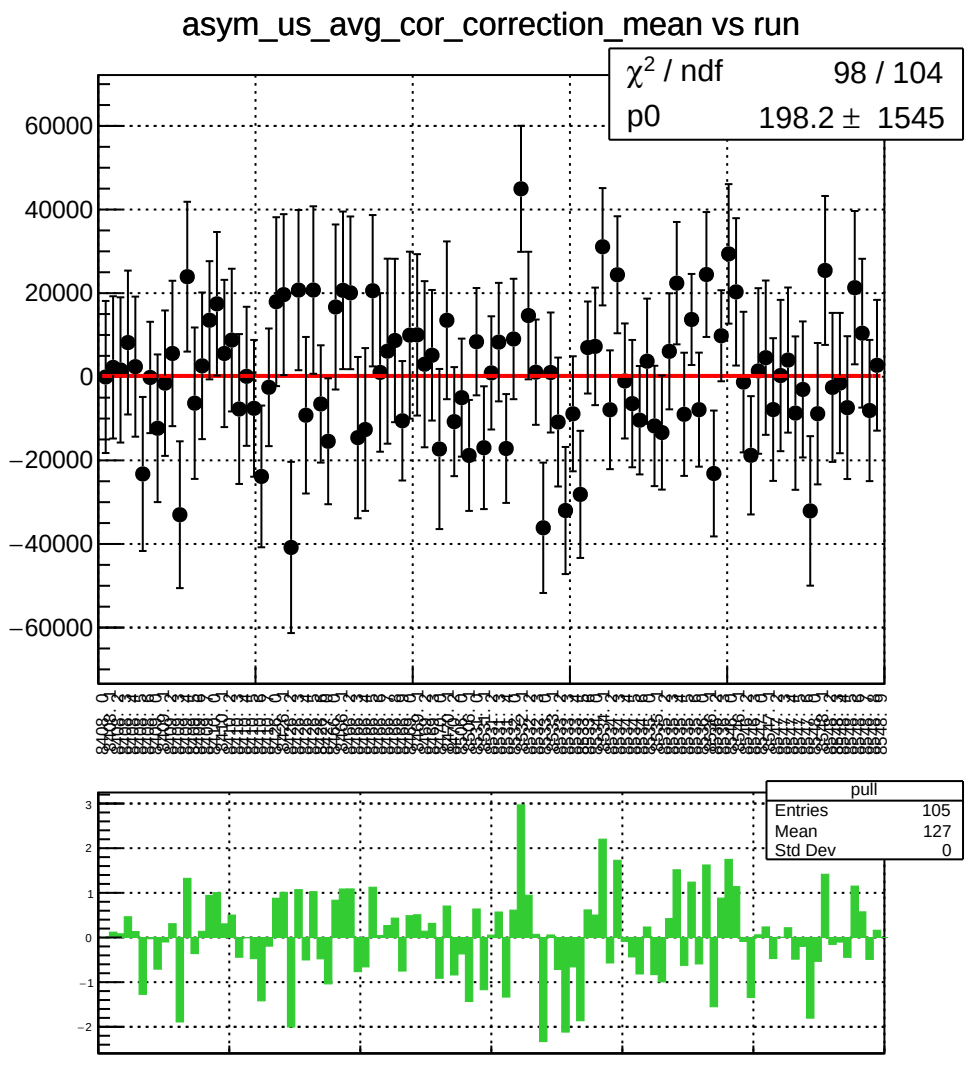
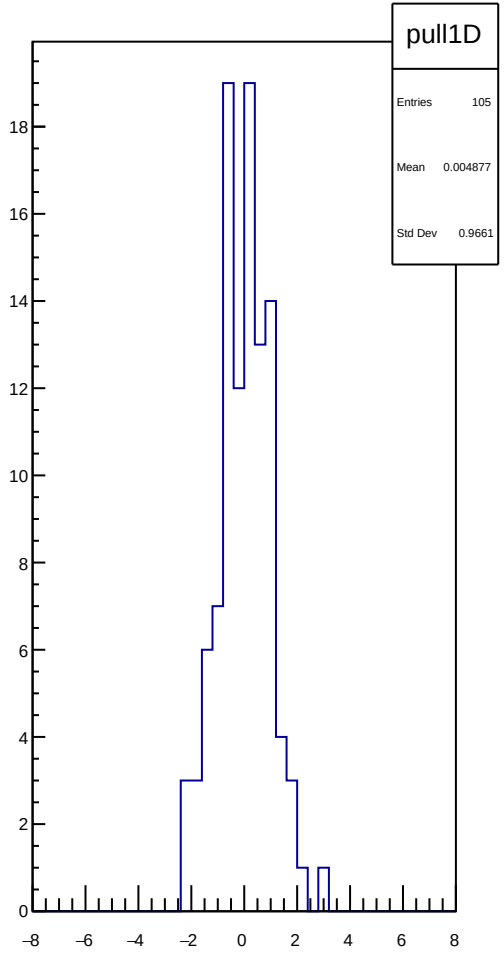
2
4
6
8


cor_asym_us_avg_rms vs run
χ² / ndf 2378 / 104
p0 768.9 ± 0.5378
860
840
820
800
780
760
740


asym_us_avg_cor_correction_mean vs run
χ² / ndf 98 / 104
p0 198.2 ± 1545
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean 127
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 105
Mean 0.004877
Std Dev 0.9661
18
16
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10
8
6
4
2
0
−8
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−4
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2
4
6
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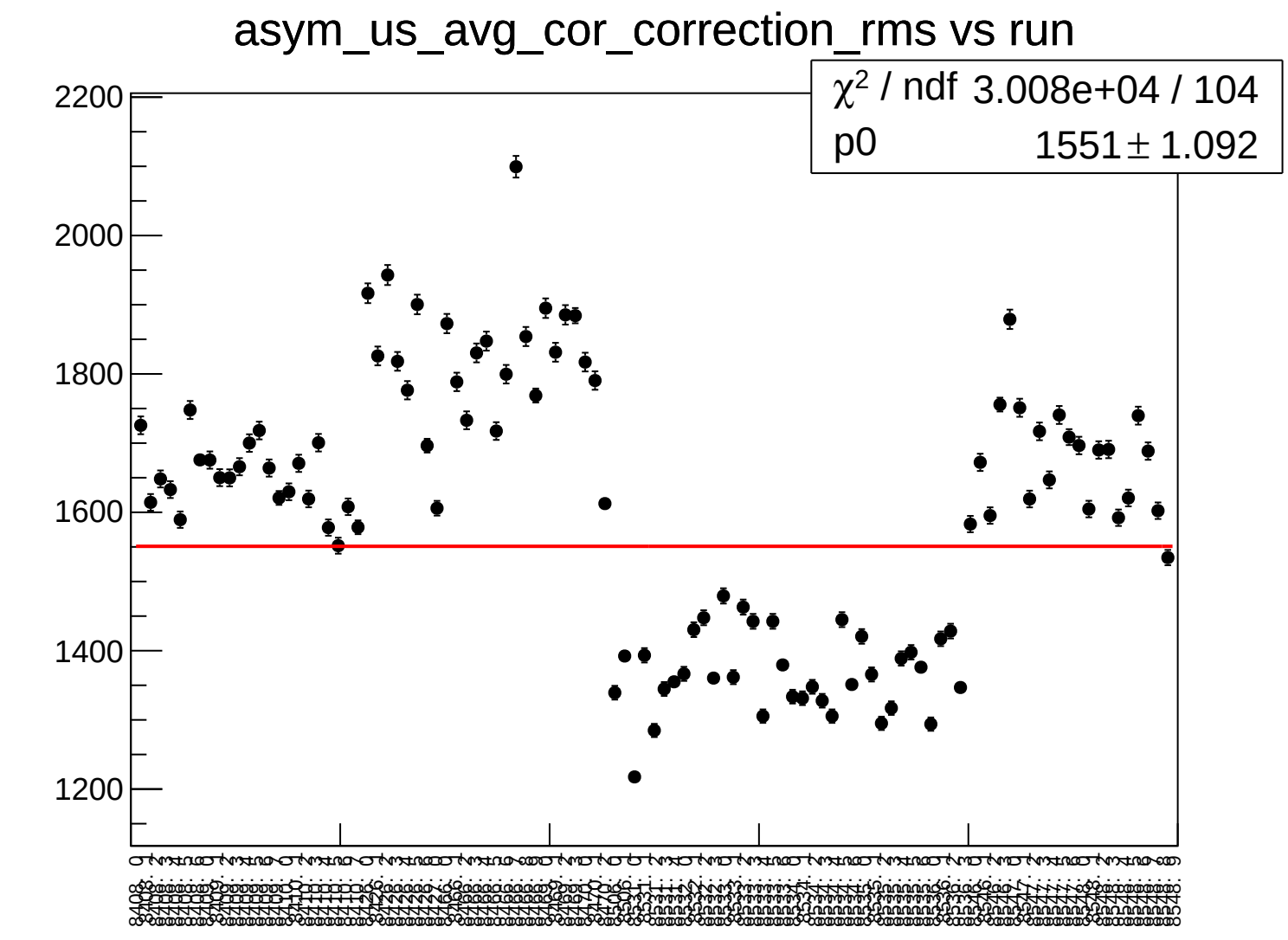
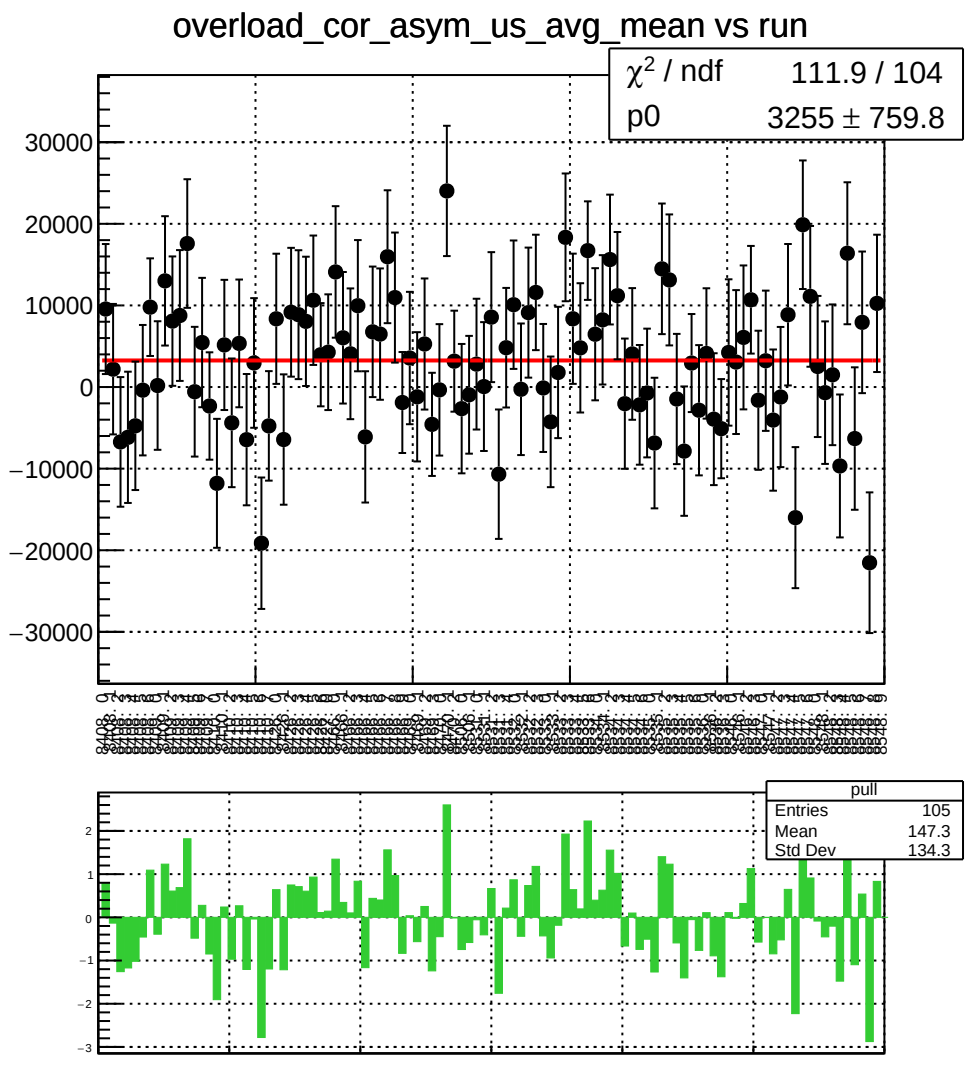
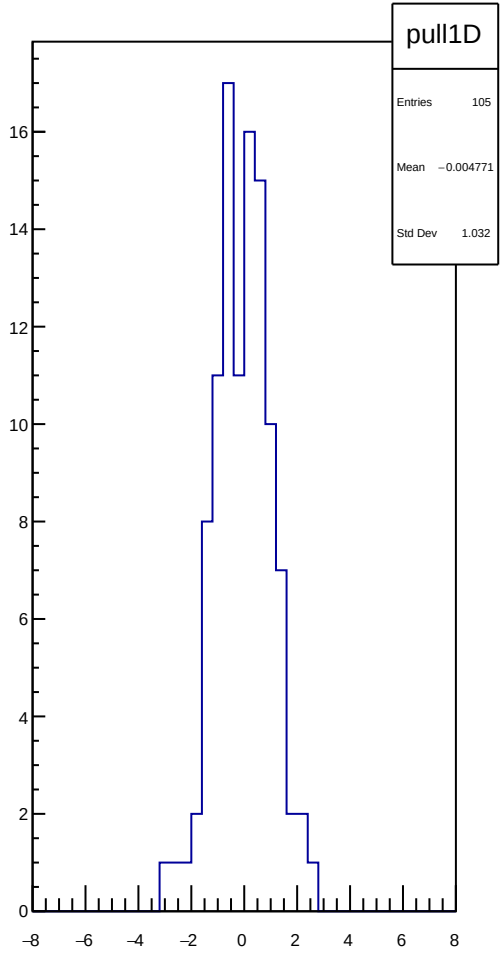

asym_us_avg_cor_correction_rms vs run
χ² / ndf 3.008e+04 / 104
p0 1551 ± 1.092
2200
2000
1800
1600
1400
1200


overload_cor_asym_us_avg_mean vs run
χ² / ndf 111.9 / 104
p0 3255 ± 759.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 105
Mean 147.3
Std Dev 134.3
2
1
0
−1
−2
−3


pull1D
Entries 105
Mean −0.004771
Std Dev 1.032
16
14
12
10
8
6
4
2
0
−8
−6
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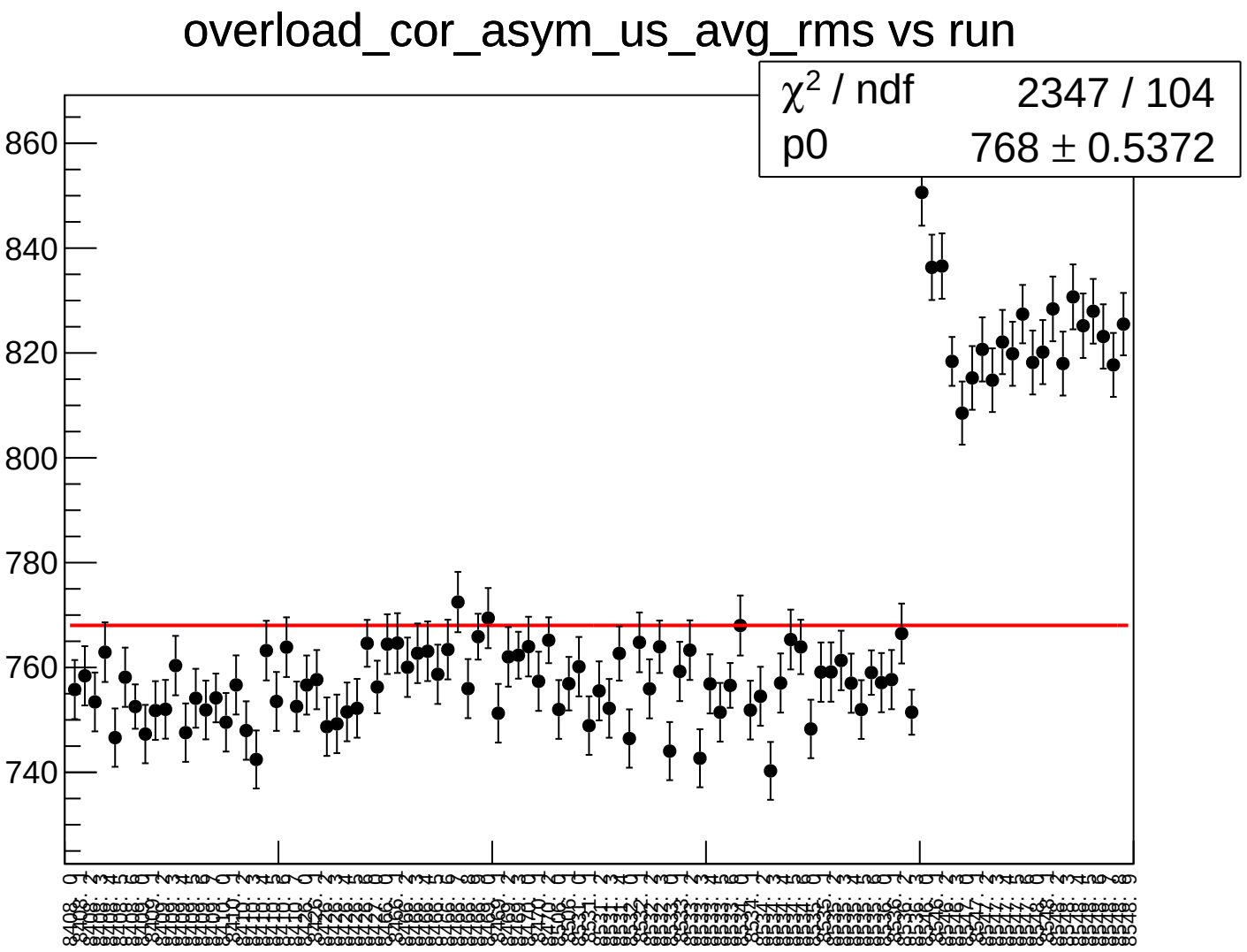
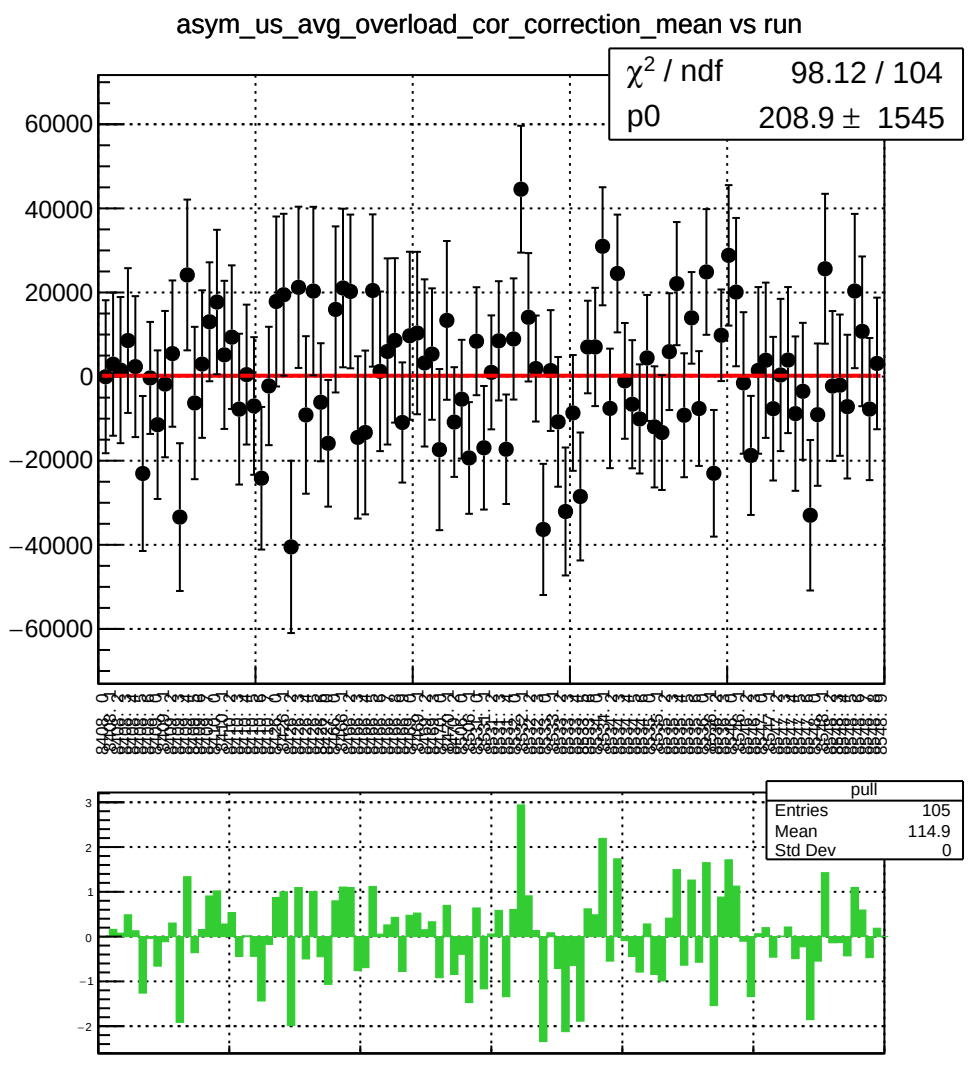
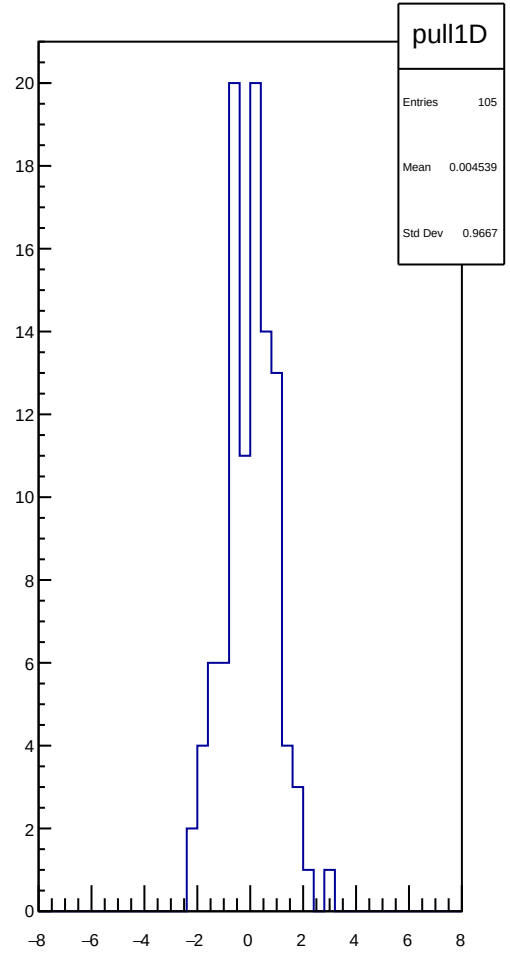
2
4
6
8


overload_cor_asym_us_avg_rms vs run
χ^2 / ndf 2347 / 104
p0 768 ± 0.5372
860
840
820
800
780
760
740


asym_us_avg_overload_cor_correction_mean vs run
χ² / ndf 98.12 / 104
p0 208.9 ± 1545
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean 114.9
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 105
Mean 0.004539
Std Dev 0.9667
20
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10
8
6
4
2
0
−8
−6
−4
−2
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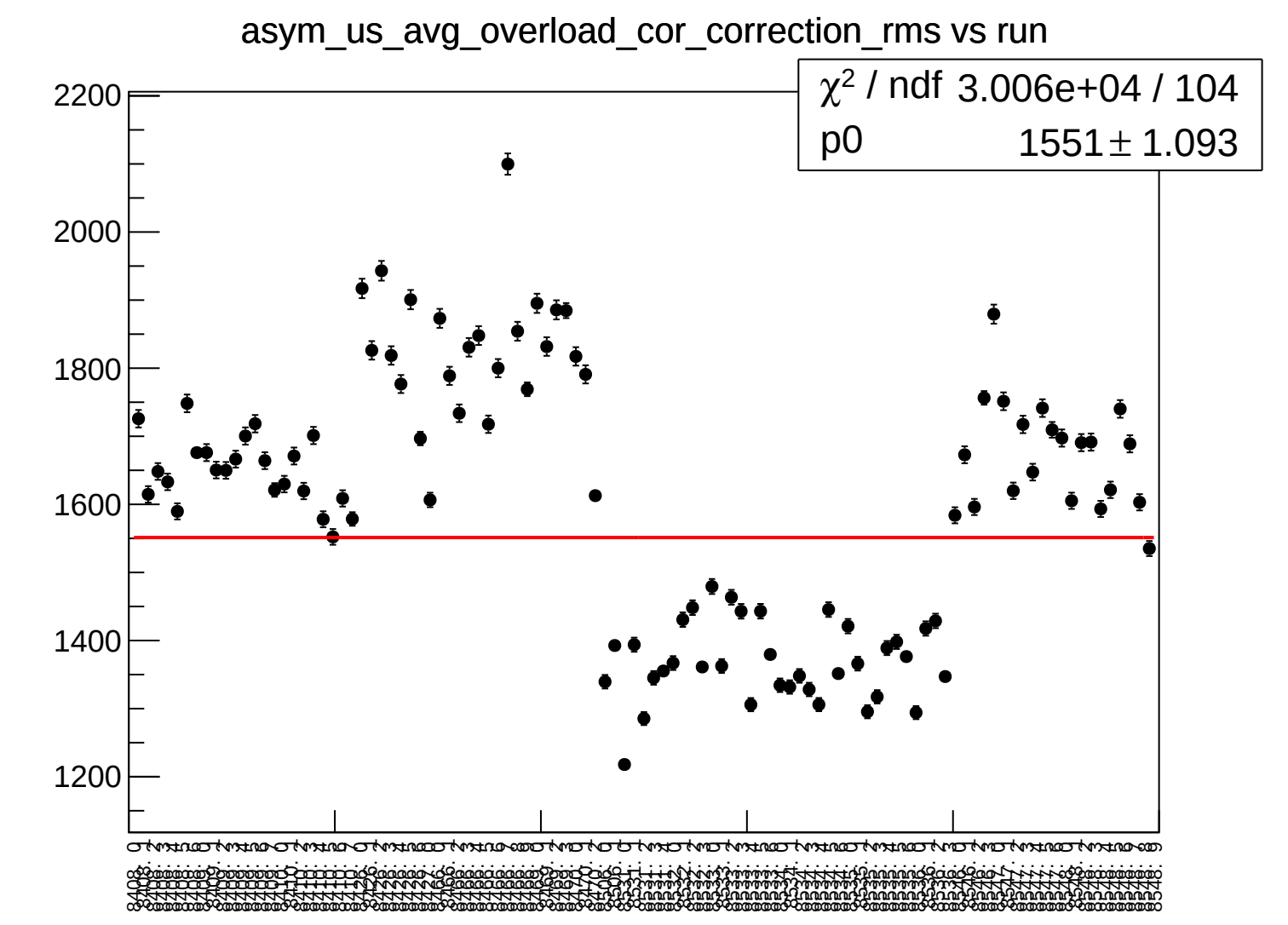
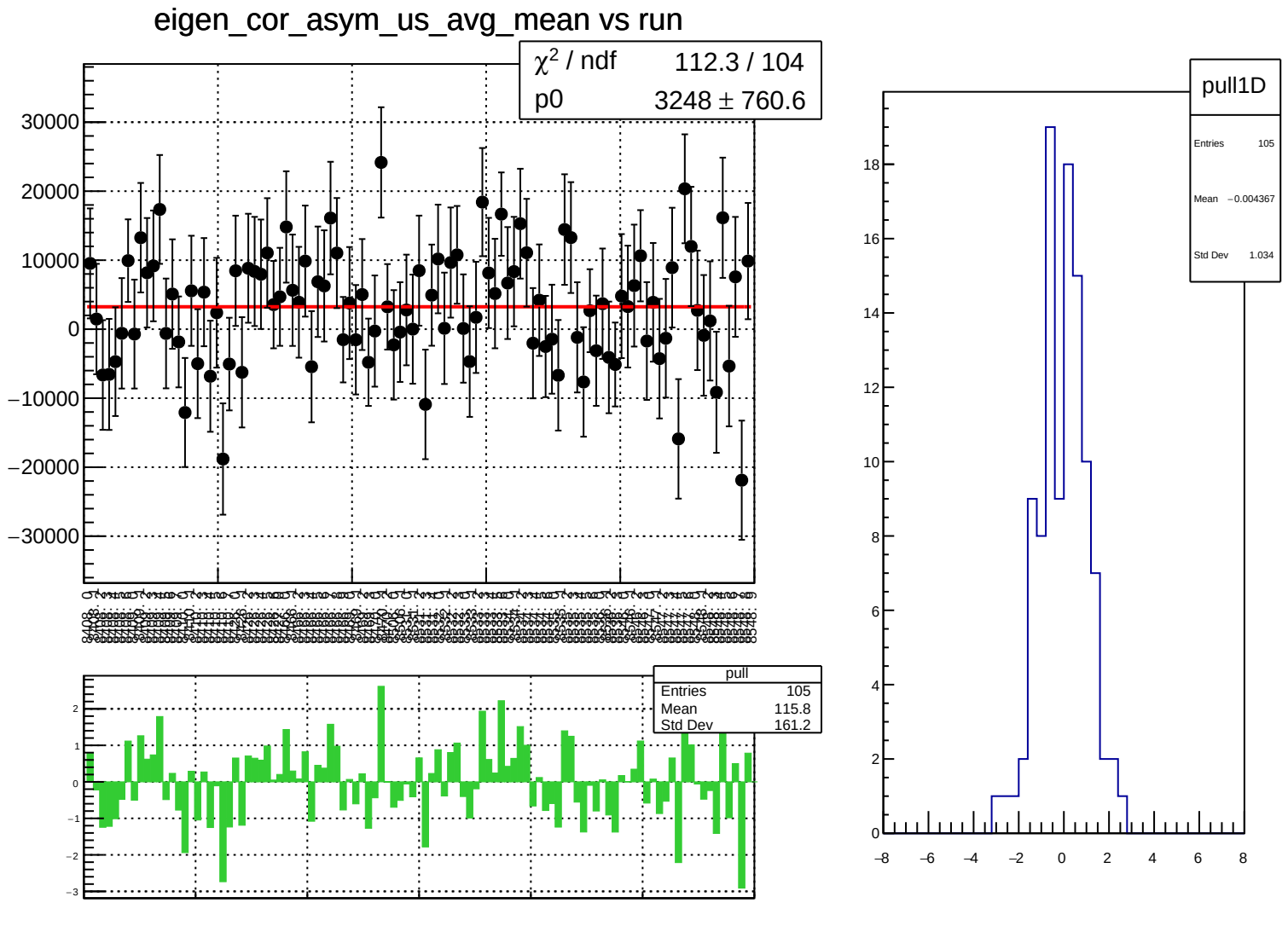
2
4
6
8


asym_us_avg_overload_cor_correction_rms vs run
χ² / ndf 3.006e+04 / 104
p0 1551 ± 1.093
2200
2000
1800
1600
1400
1200


eigen_cor_asym_us_avg_mean vs run
χ² / ndf 112.3 / 104
p0 3248 ± 760.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 105
Mean 115.8
Std Dev 161.2
2
1
0
−1
−2
−3
pull1D
Entries 105
Mean −0.004367
Std Dev 1.034
18
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−4
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2
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6
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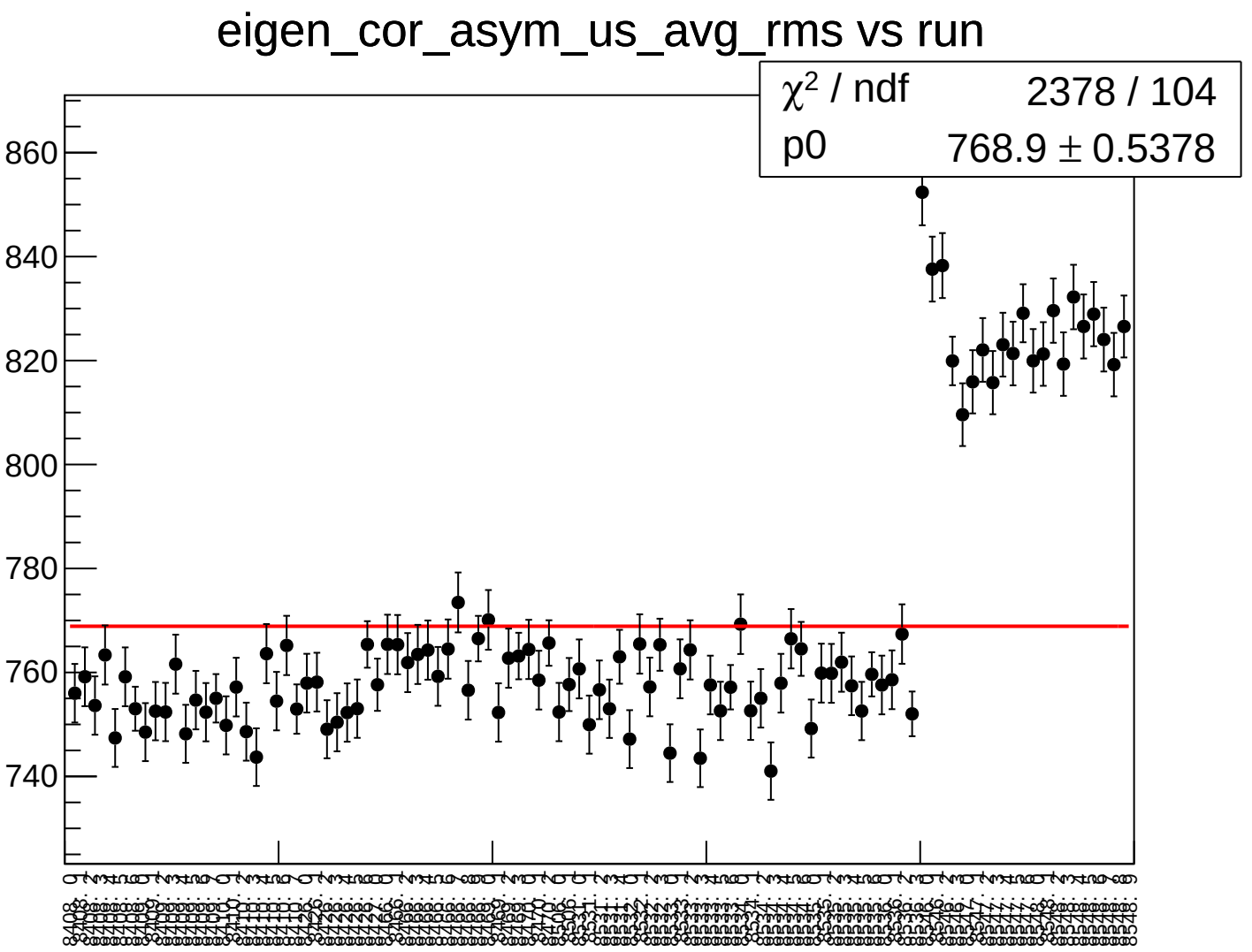
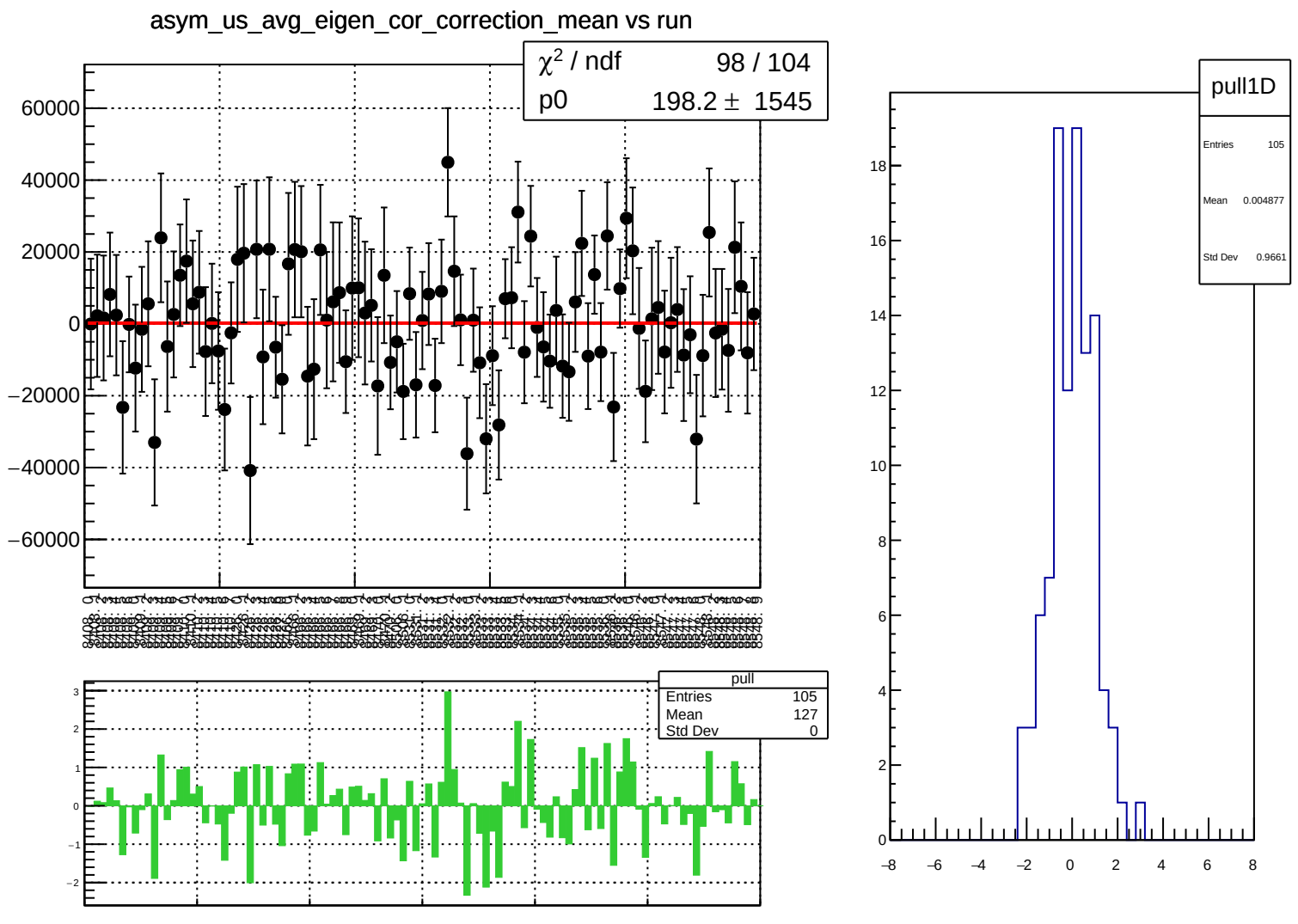

eigen_cor_asym_us_avg_rms vs run
χ² / ndf 2378 / 104
p0 768.9 ± 0.5378
860
840
820
800
780
760
740


asym_us_avg_eigen_cor_correction_mean vs run
χ² / ndf 98 / 104
p0 198.2 ± 1545
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean 127
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.004877
Std Dev 0.9661
18
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−4
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2
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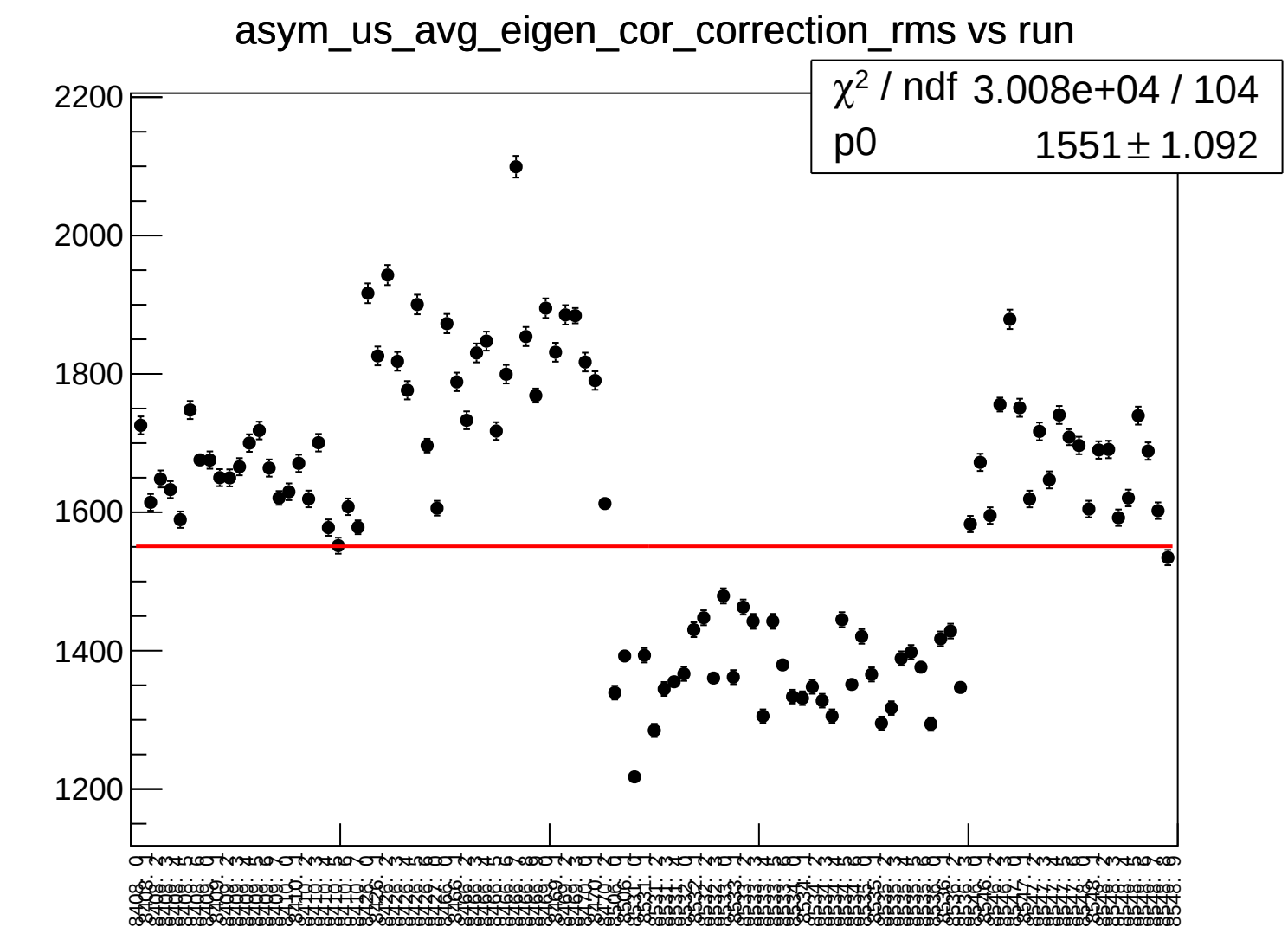
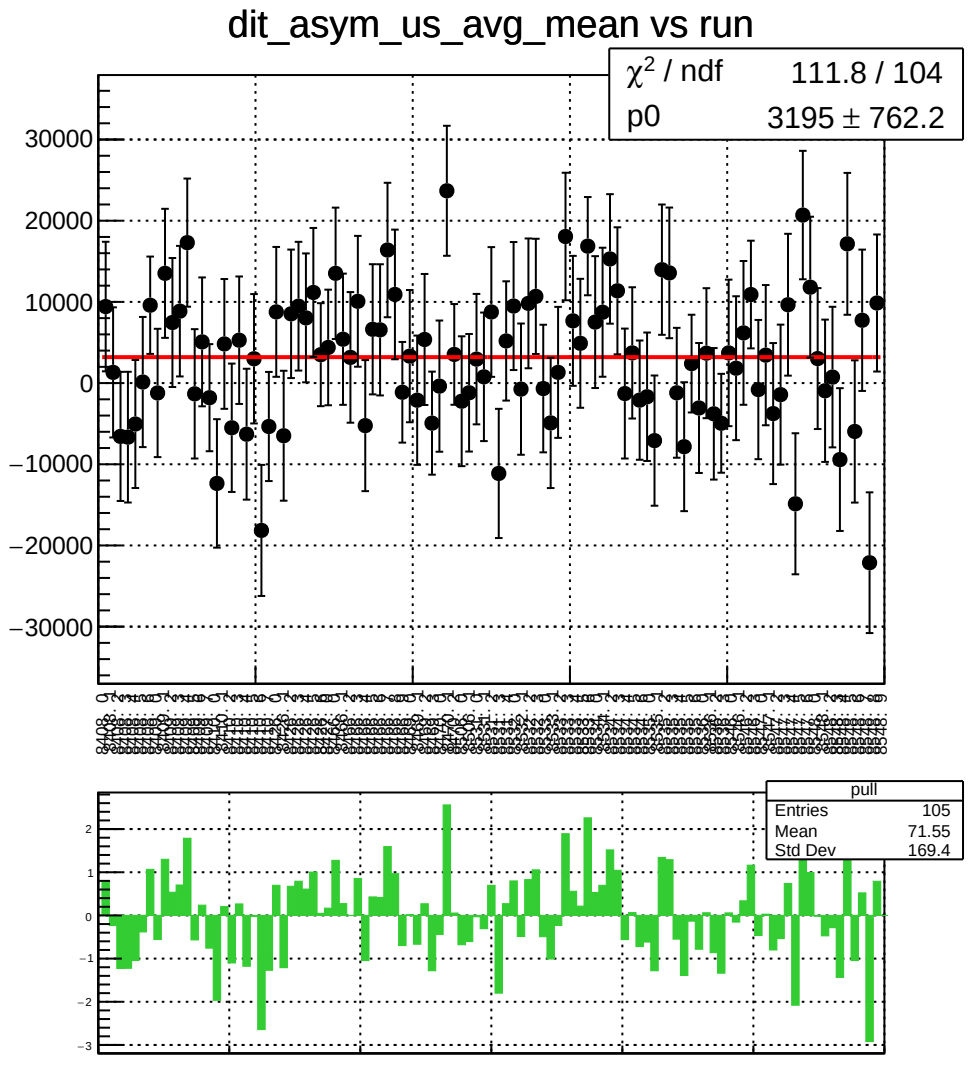
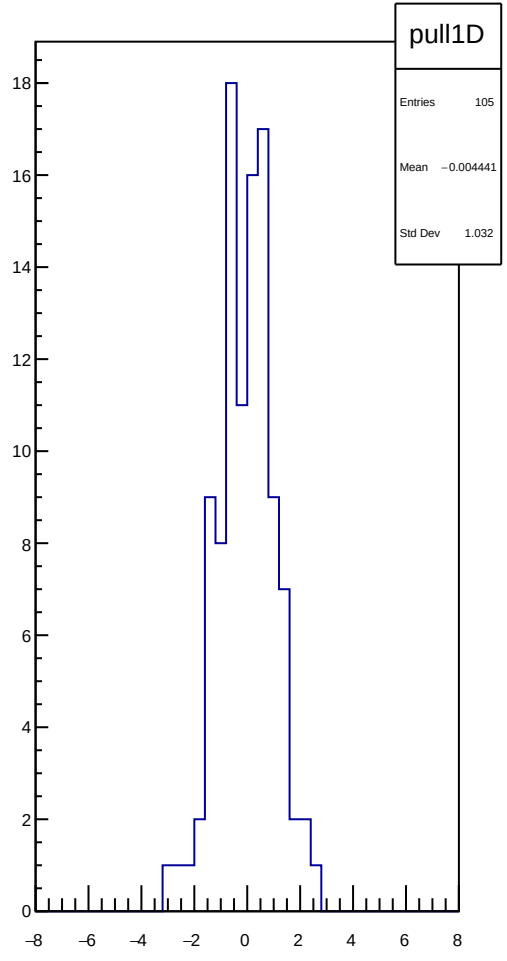
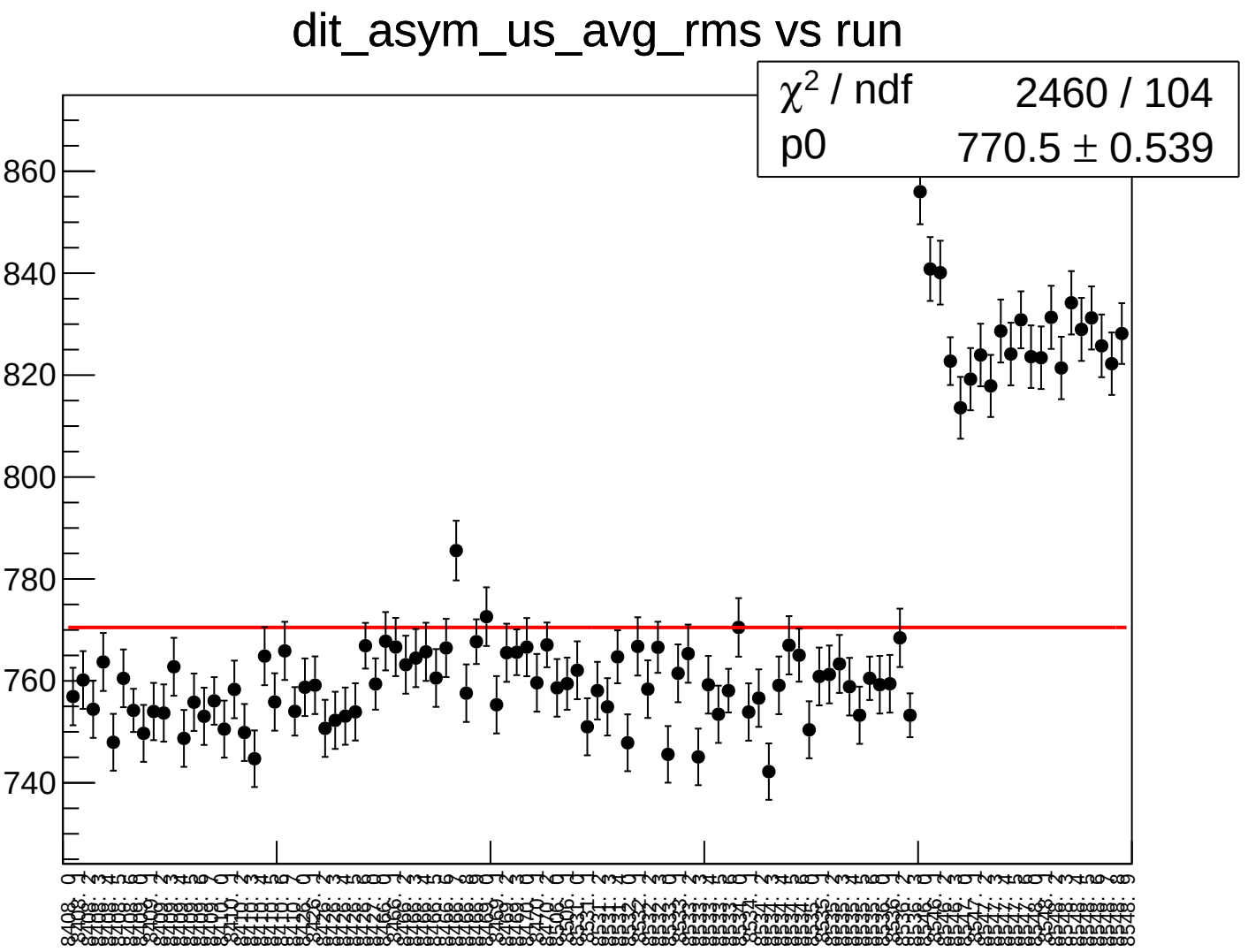
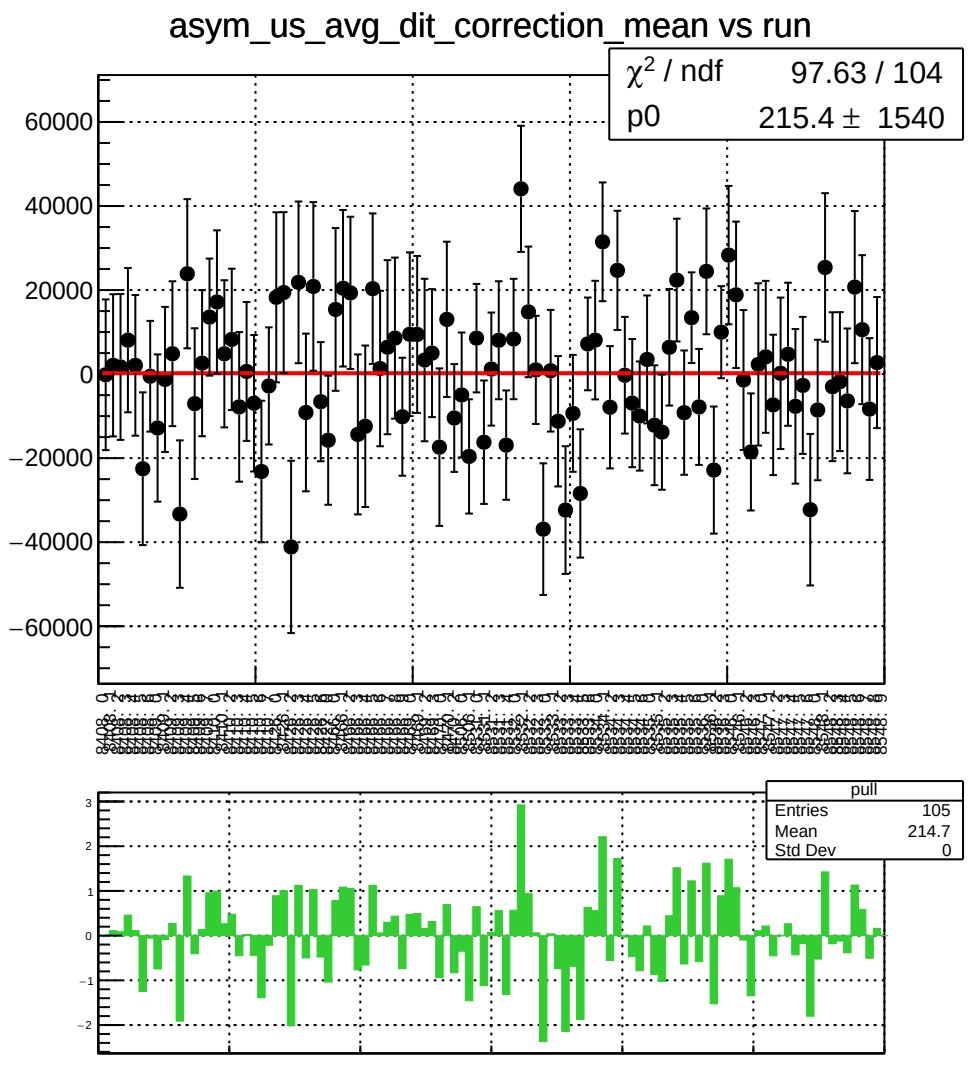
6
8

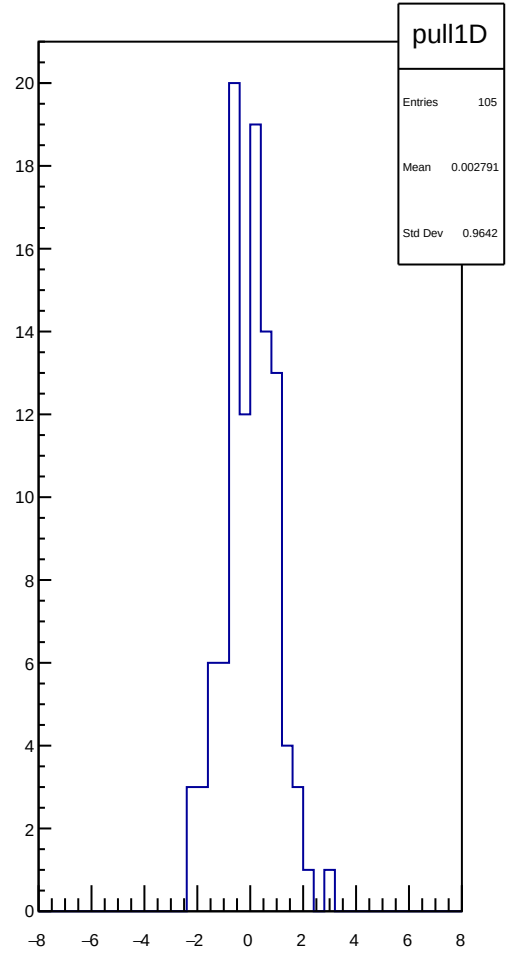

asym_us_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.008e+04 / 104
p0 1551 ± 1.092
2200
2000
1800
1600
1400
1200

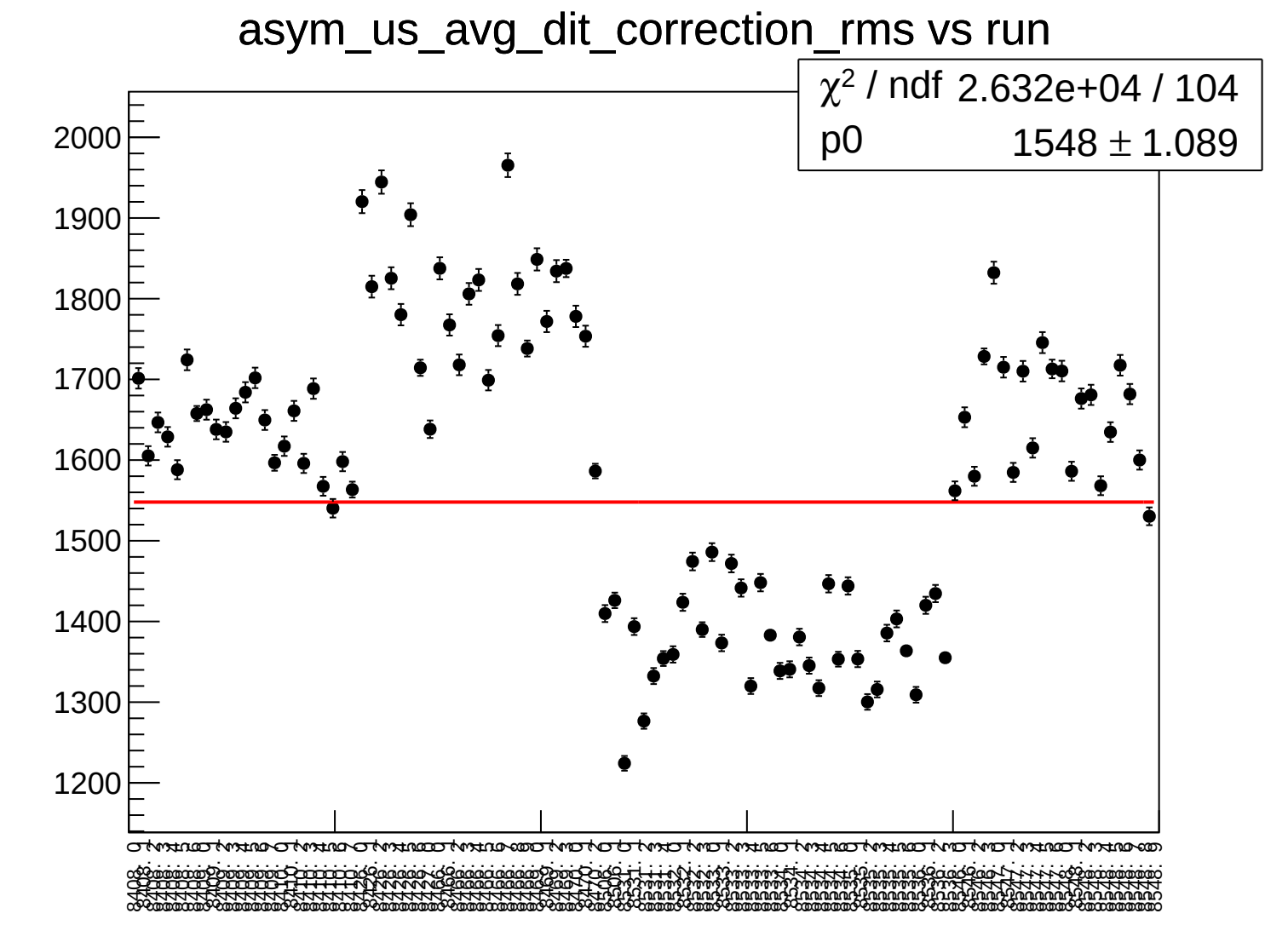

dit_asym_us_avg_mean vs run
χ² / ndf 111.8 / 104
p0 3195 ± 762.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 105
Mean 71.55
Std Dev 169.4
2
1
0
−1
−2
−3

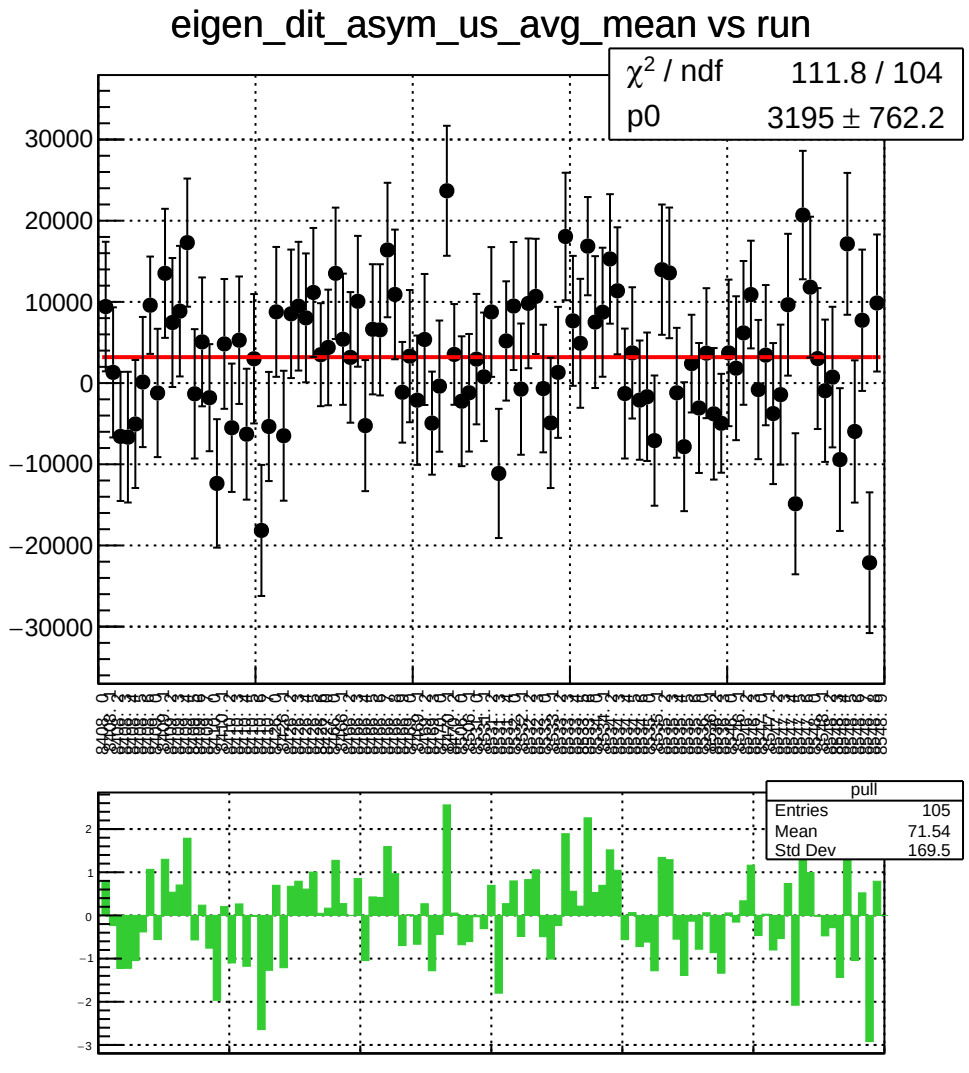

pull1D
Entries 105
Mean −0.004441
Std Dev 1.032
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

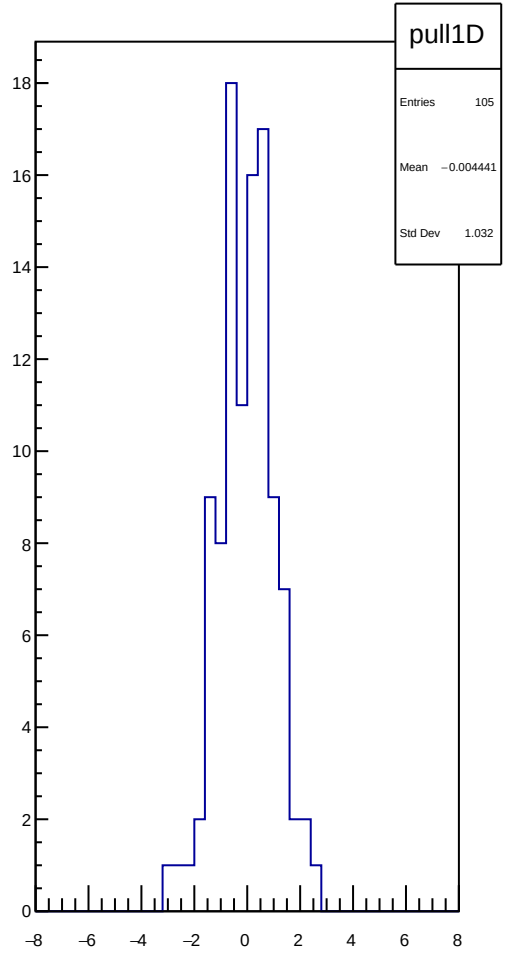

dit_asym_us_avg_rms vs run
χ^2 / ndf 2460 / 104
p0 770.5 ± 0.539
860
840
820
800
780
760
740

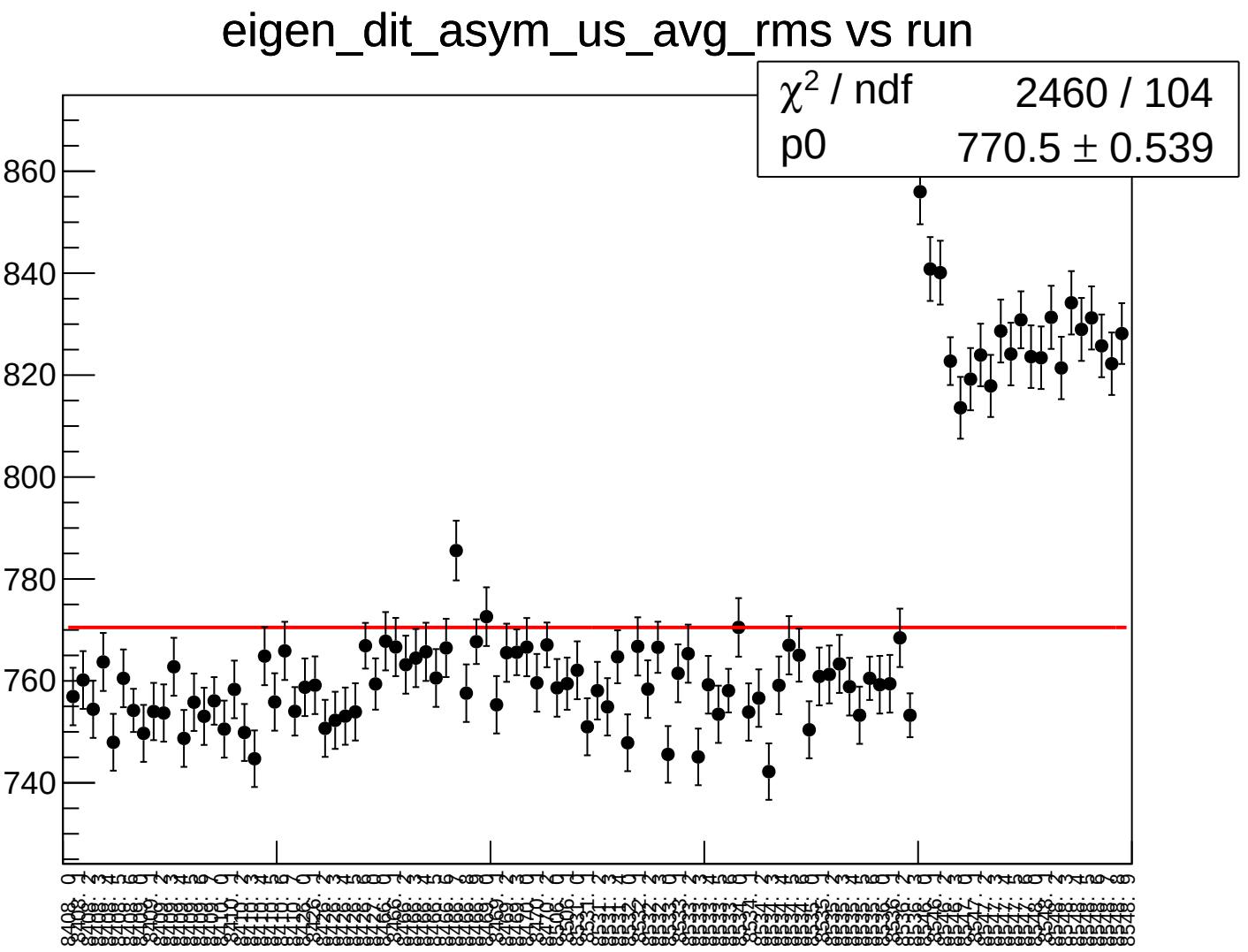

asym_us_avg_dit_correction_mean vs run
χ² / ndf 97.63 / 104
p0 215.4 ± 1540
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean 214.7
Std Dev 0
3
2
1
0
−1
−2

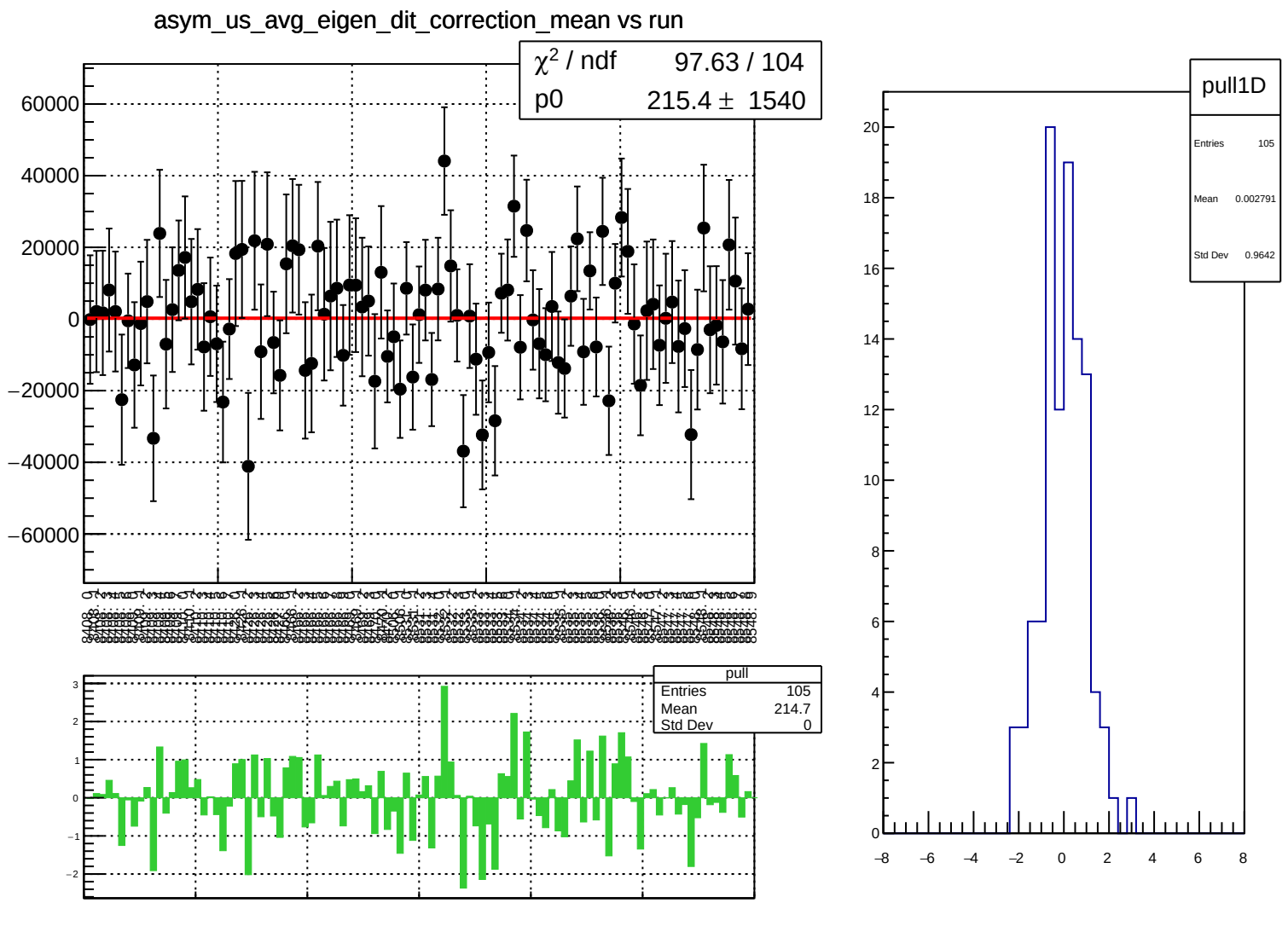

pull1D
Entries 105
Mean 0.002791
Std Dev 0.9642
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

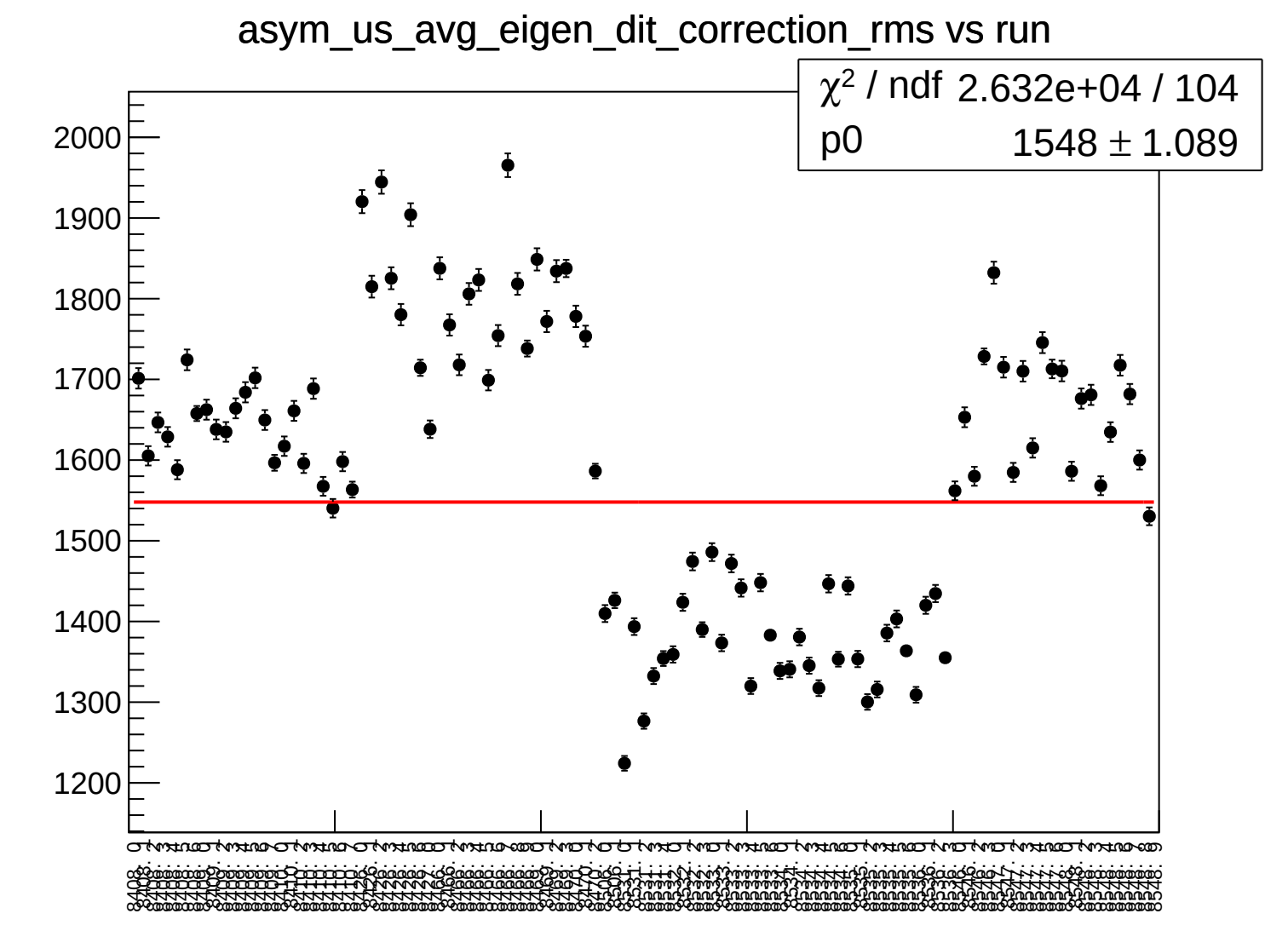

asym_us_avg_dit_correction_rms vs run
χ² / ndf 2.632e+04 / 104
p0 1548 ± 1.089
2000
1900
1800
1700
1600
1500
1400
1300
1200

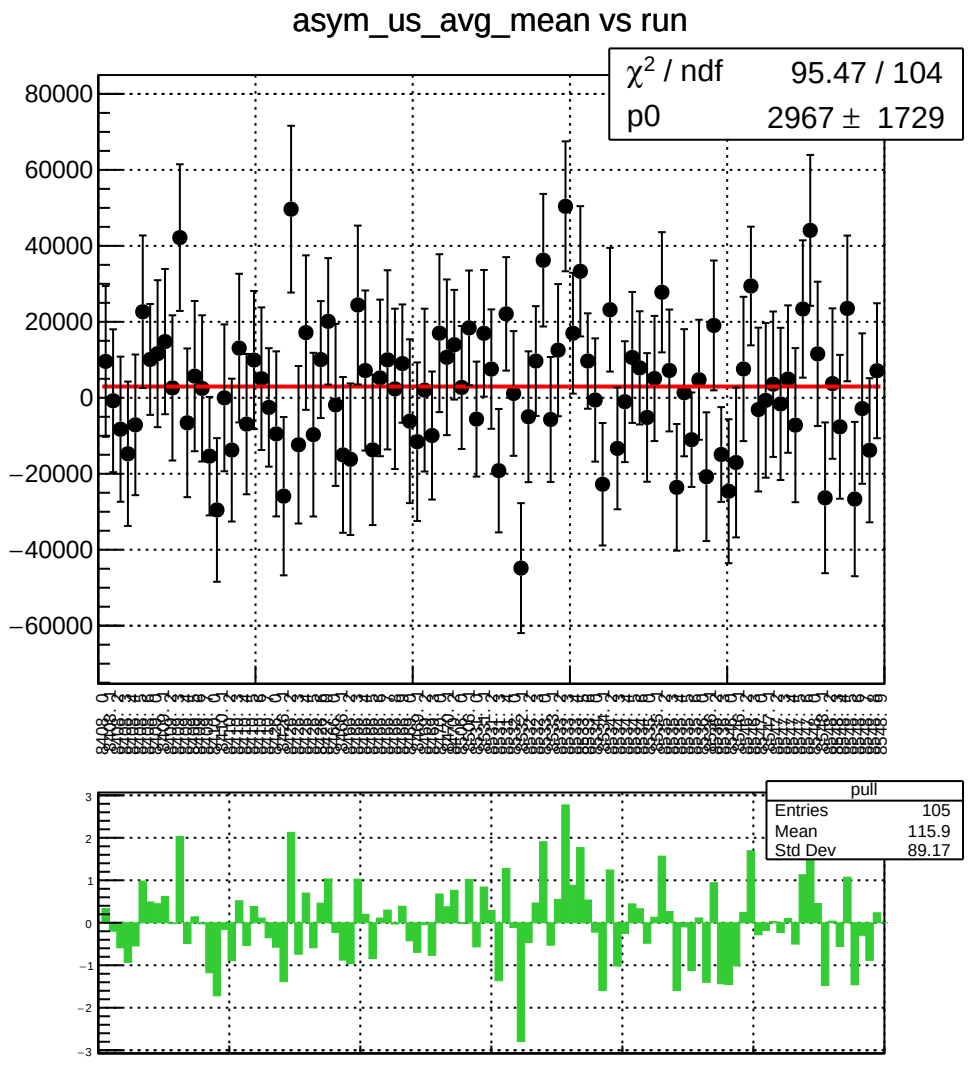

eigen_dit_asym_us_avg_mean vs run
χ^2 / ndf 111.8 / 104
p0 3195 ± 762.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 105
Mean 71.54
Std Dev 169.5
2
1
0
−1
−2
−3

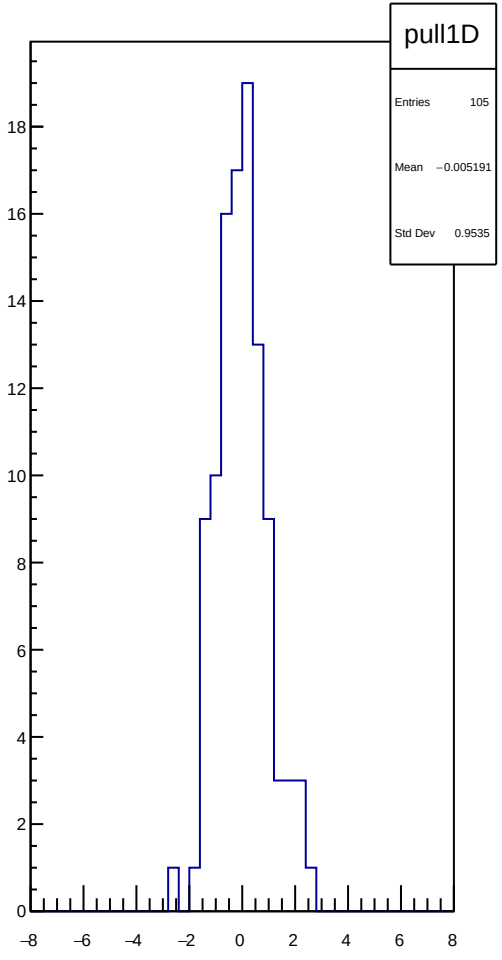

pull1D
Entries 105
Mean −0.004441
Std Dev 1.032
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

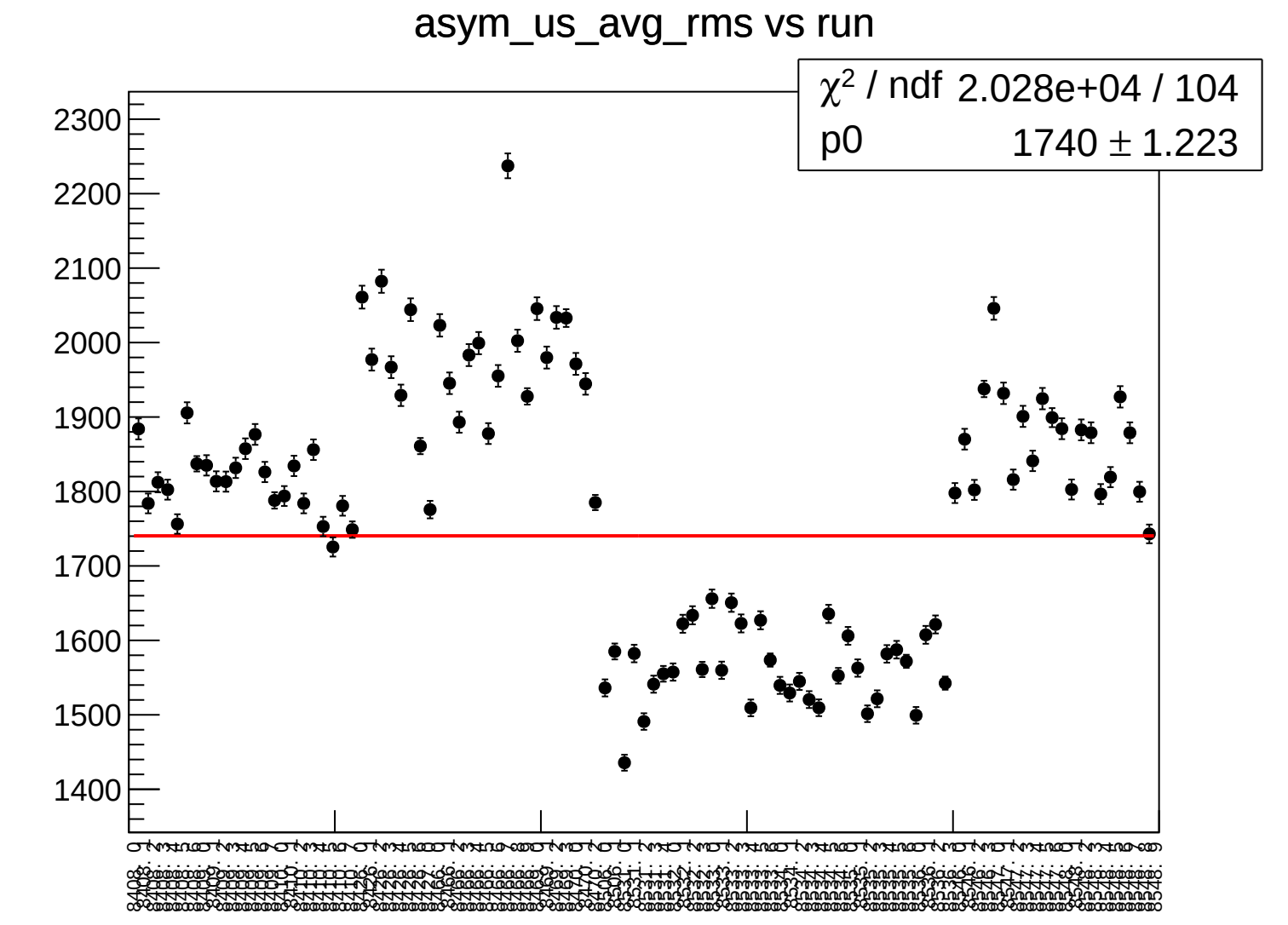

eigen_dit_asym_us_avg_rms vs run
χ² / ndf 2460 / 104
p0 770.5 ± 0.539
860
840
820
800
780
760
740

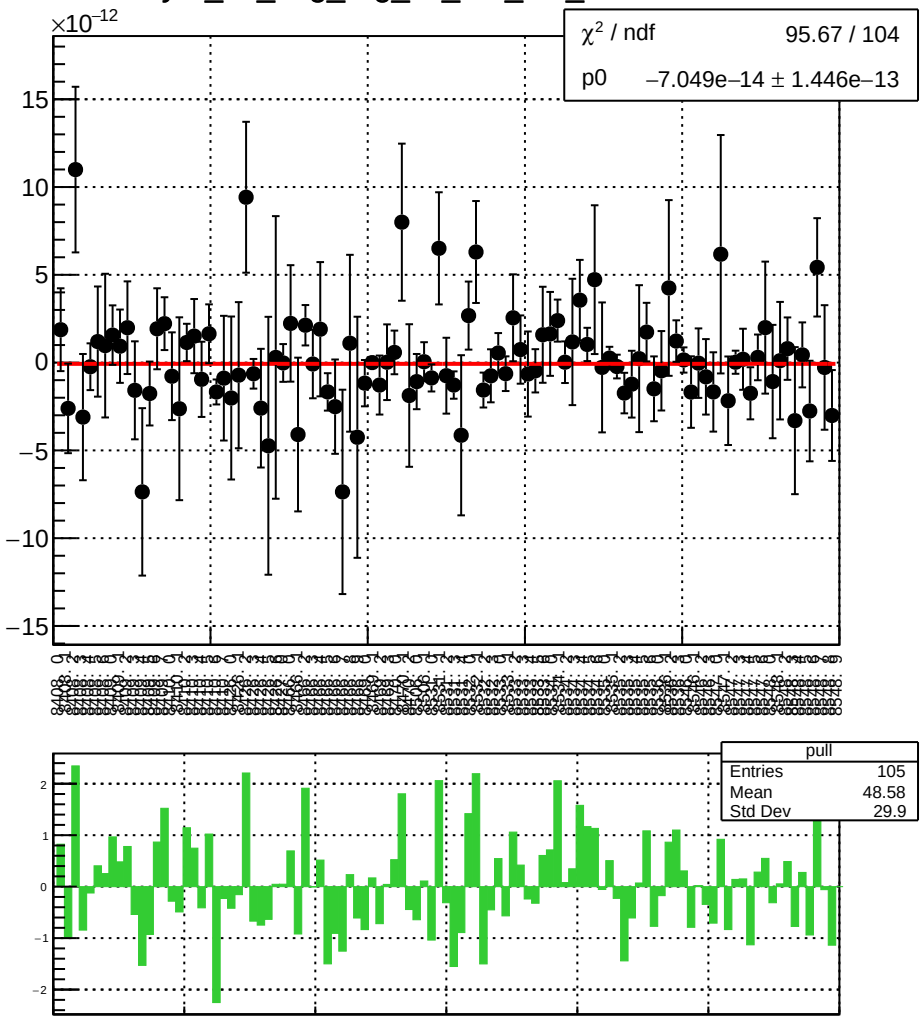

asym_us_avg_eigen_dit_correction_mean vs run
χ² / ndf 97.63 / 104
p0 215.4 ± 1540
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean 214.7
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.002791
Std Dev 0.9642
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

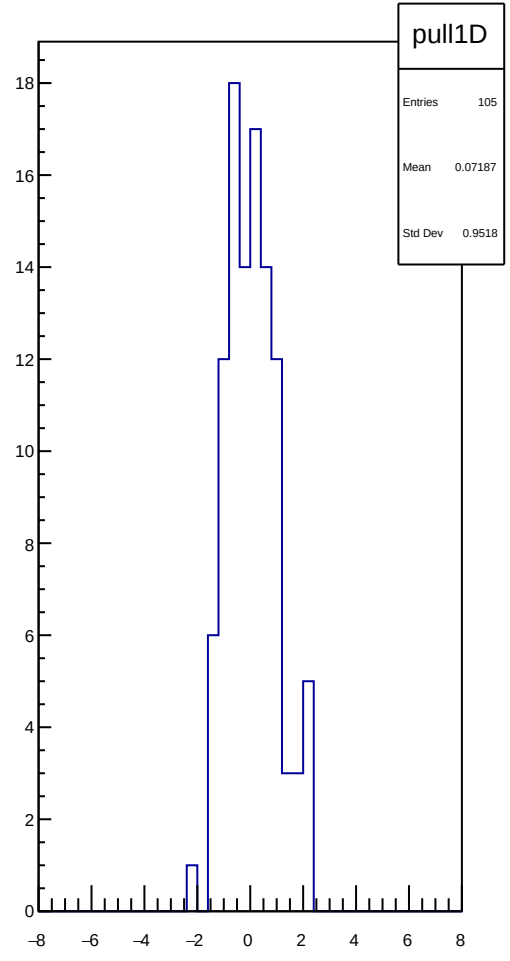

asym_us_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.632e+04 / 104
p0 1548 ± 1.089
2000
1900
1800
1700
1600
1500
1400
1300
1200

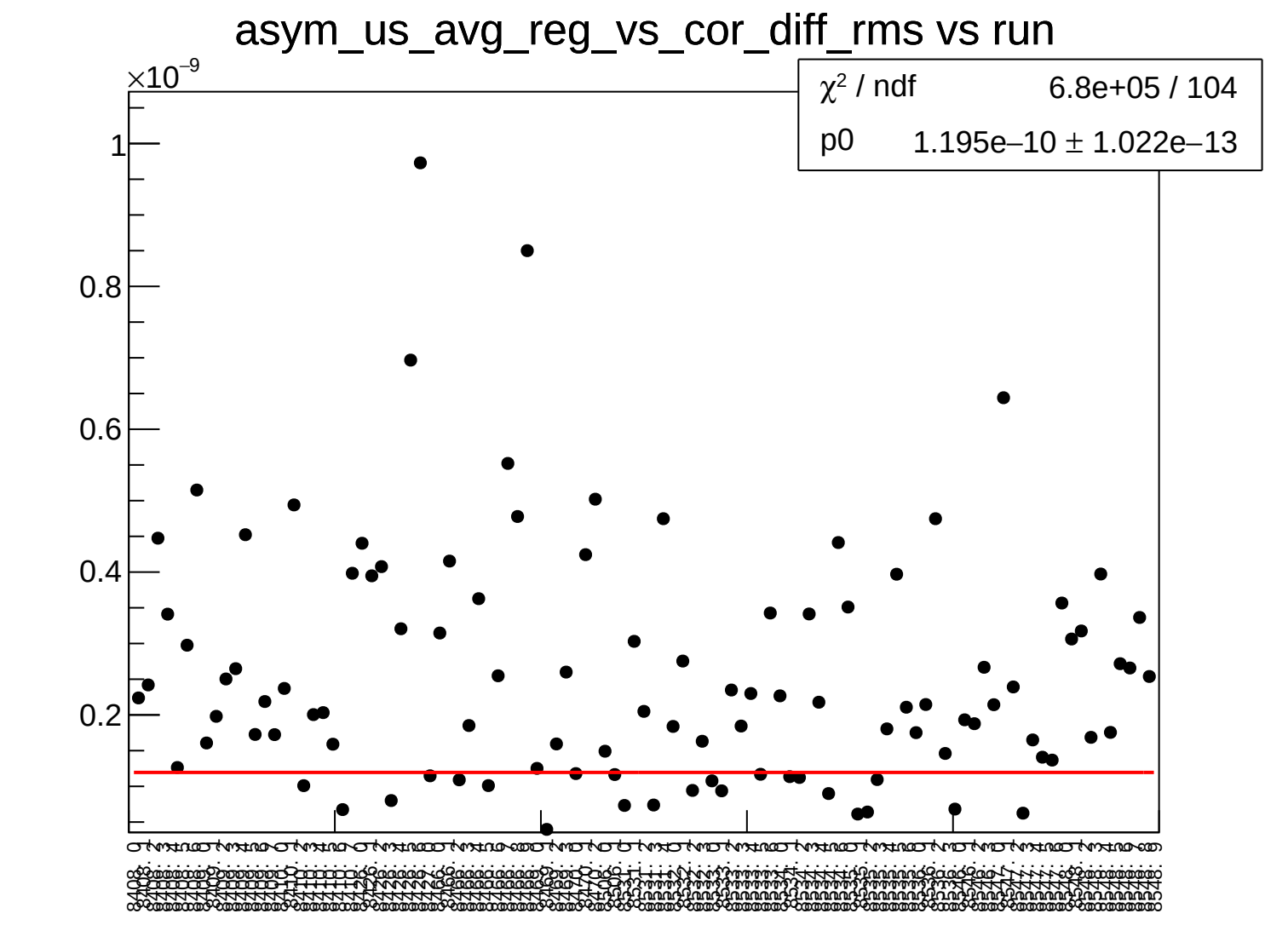

asym_us_avg_mean vs run
χ² / ndf 95.47 / 104
p0 2967 ± 1729
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean 115.9
Std Dev 89.17
3
2
1
0
−1
−2
−3

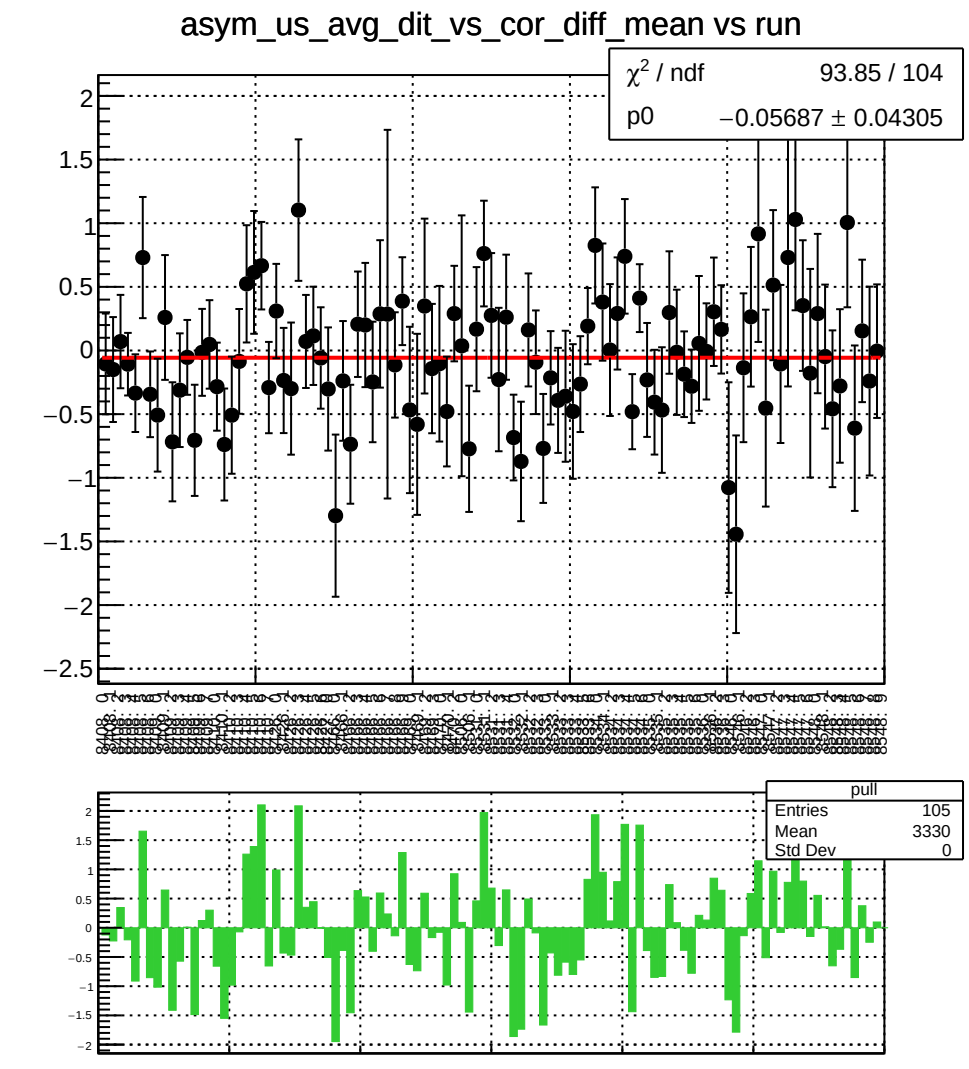

pull1D
Entries 105
Mean −0.005191
Std Dev 0.9535
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

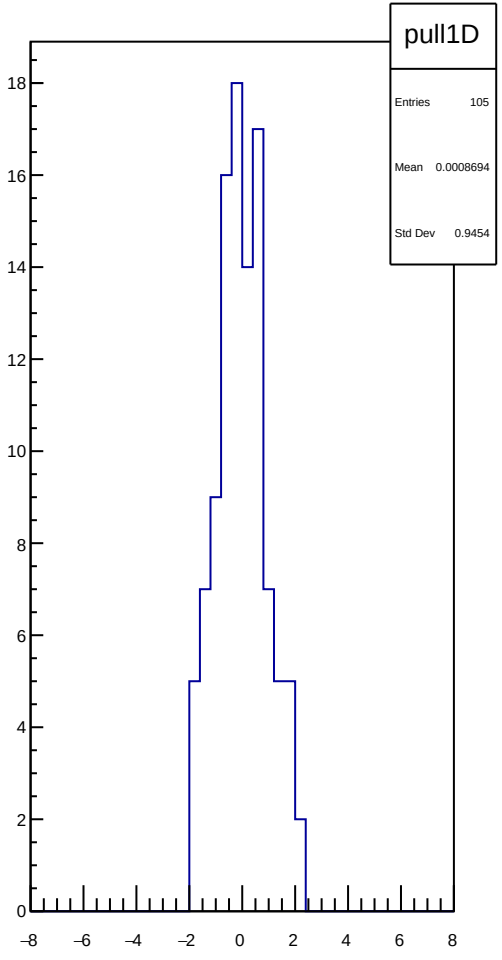

asym_us_avg_rms vs run
χ² / ndf 2.028e+04 / 104
p0 1740 ± 1.223
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400

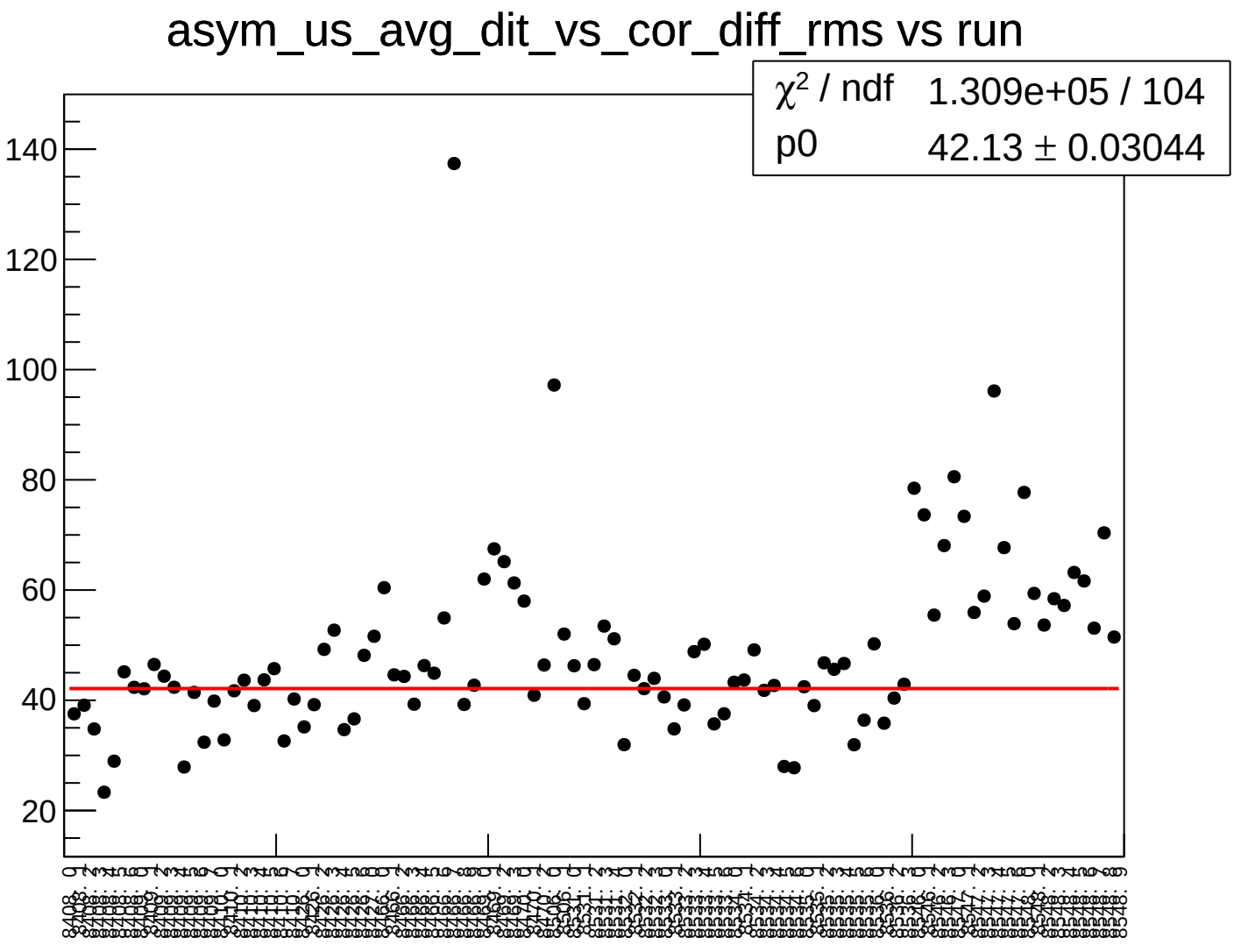

asym_us_avg_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.67 / 104
p0 −7.049e−14 ± 1.446e−13
pull
Entries 105
Mean 48.58
Std Dev 29.9

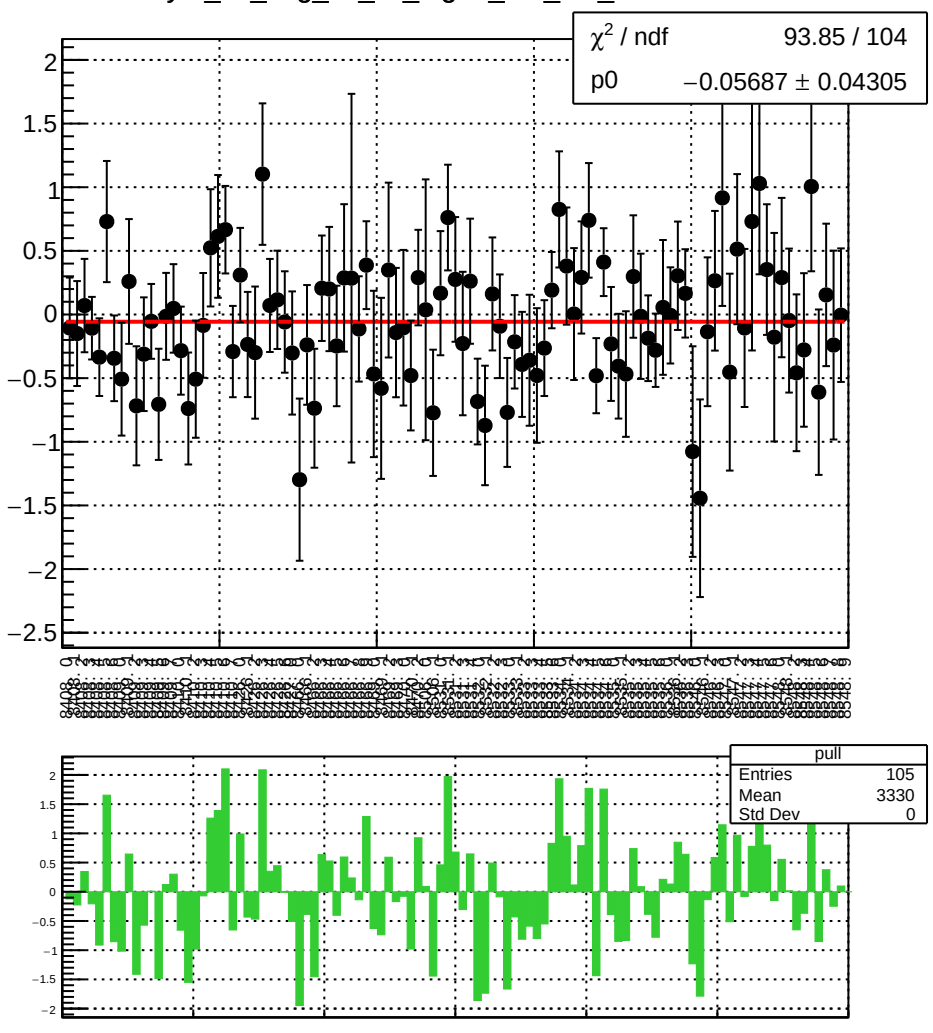

pull1D
Entries 105
Mean 0.07187
Std Dev 0.9518

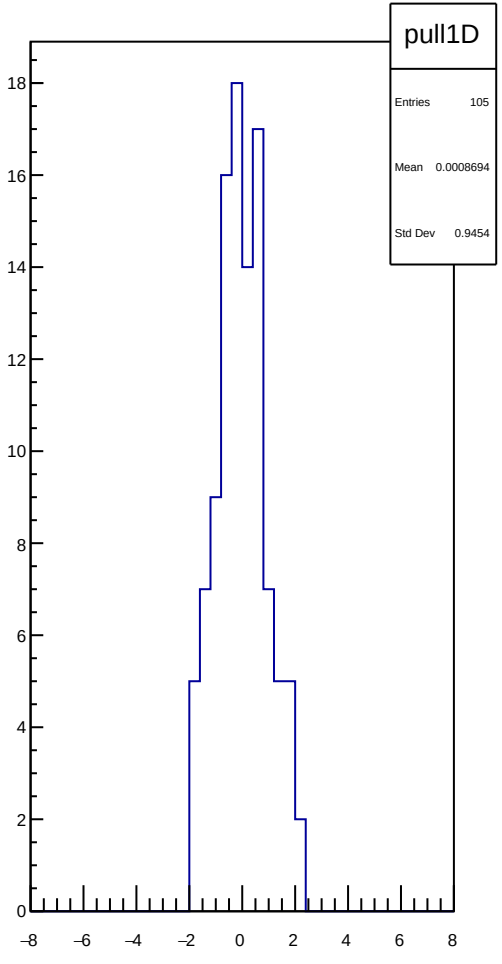

asym_us_avg_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.8e+05 / 104
p0 1.195e−10 ± 1.022e−13
1
0.8
0.6
0.4
0.2

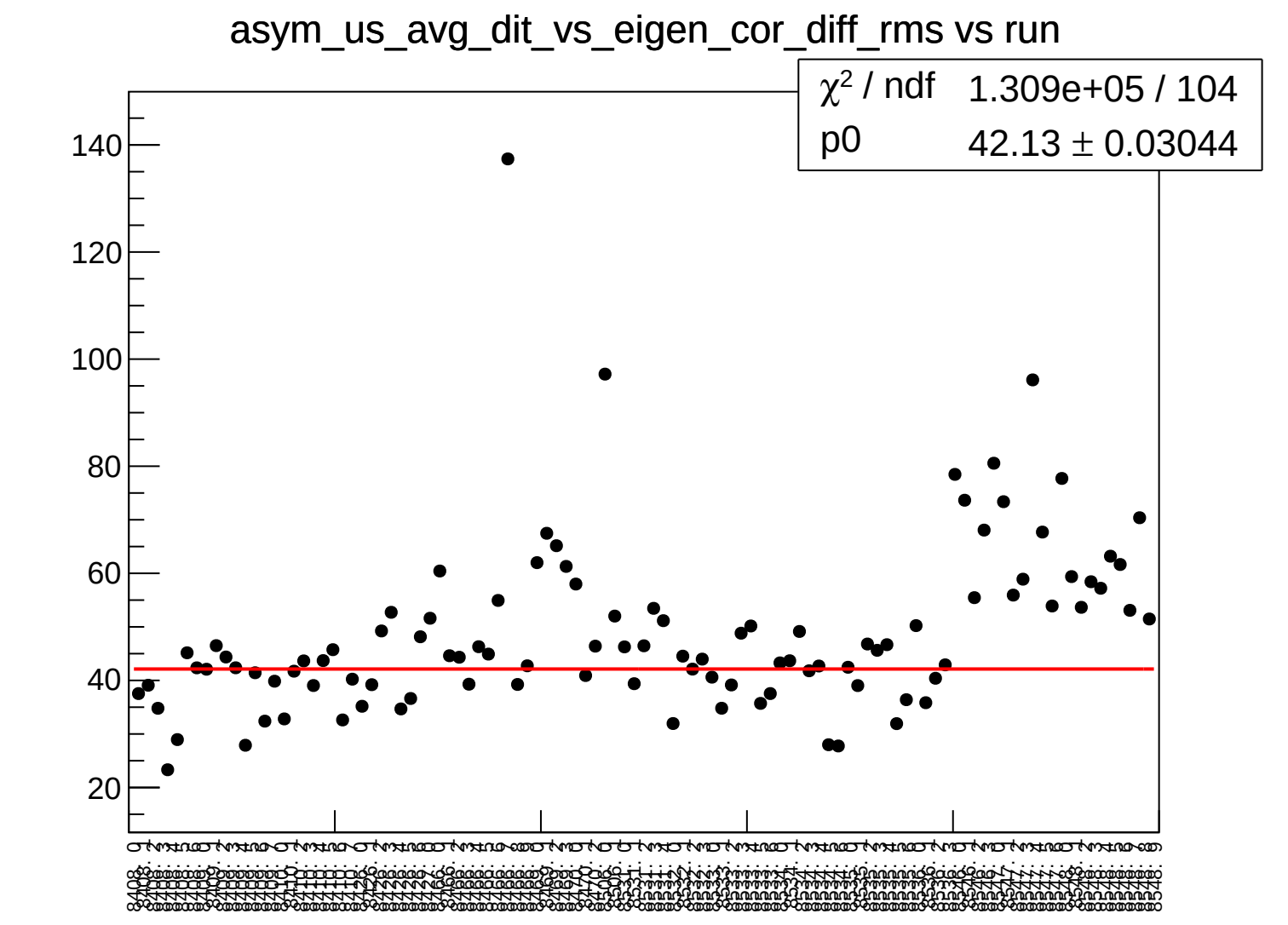

asym_us_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 93.85 / 104
p0 −0.05687 ± 0.04305
pull
Entries 105
Mean 3330
Std Dev 0

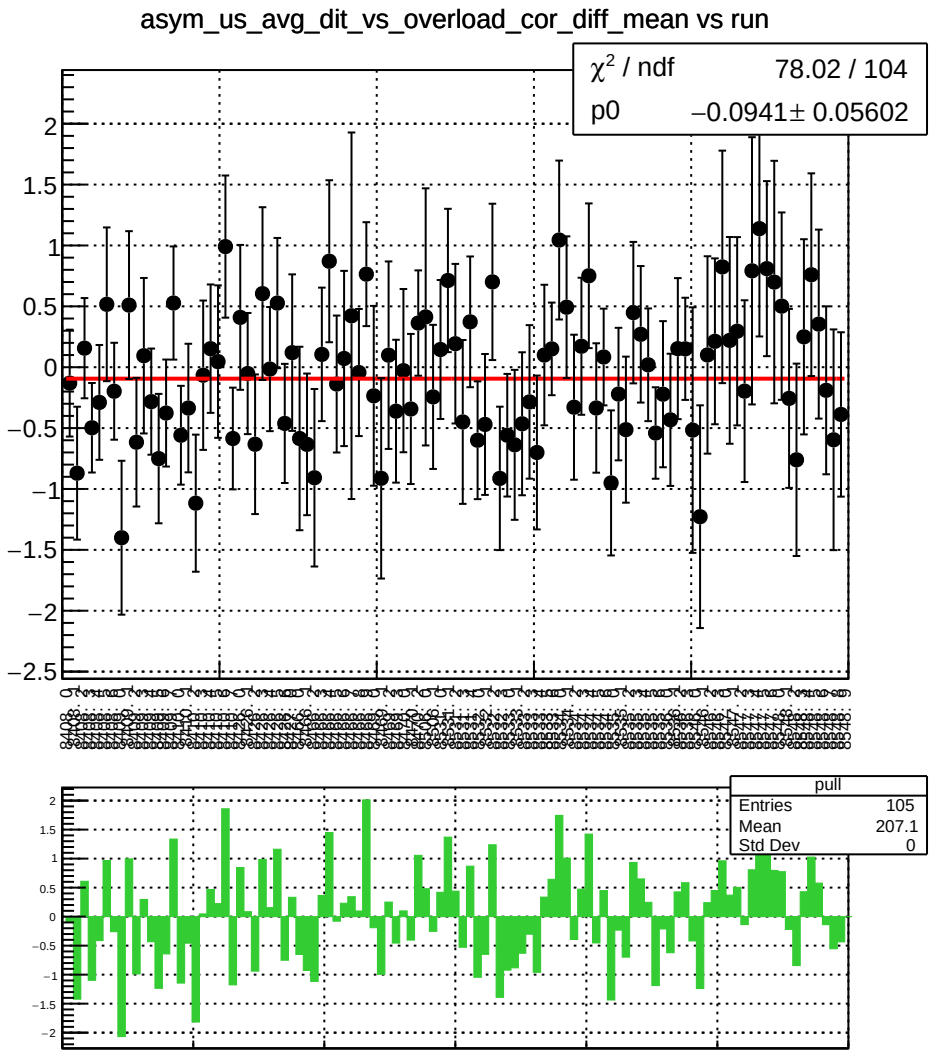

pull1D
Entries 105
Mean 0.0008694
Std Dev 0.9454

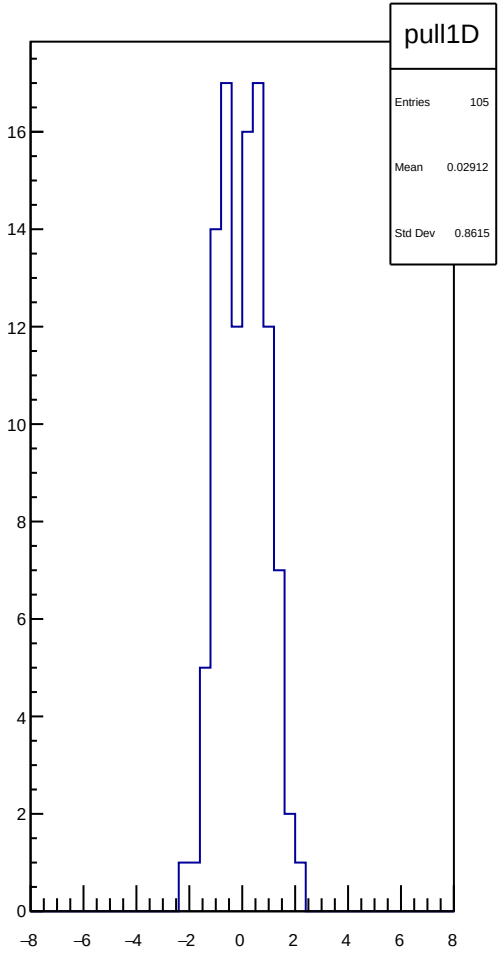

asym_us_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.309e+05 / 104
p0 42.13 ± 0.03044
140
120
100
80
60
40
20

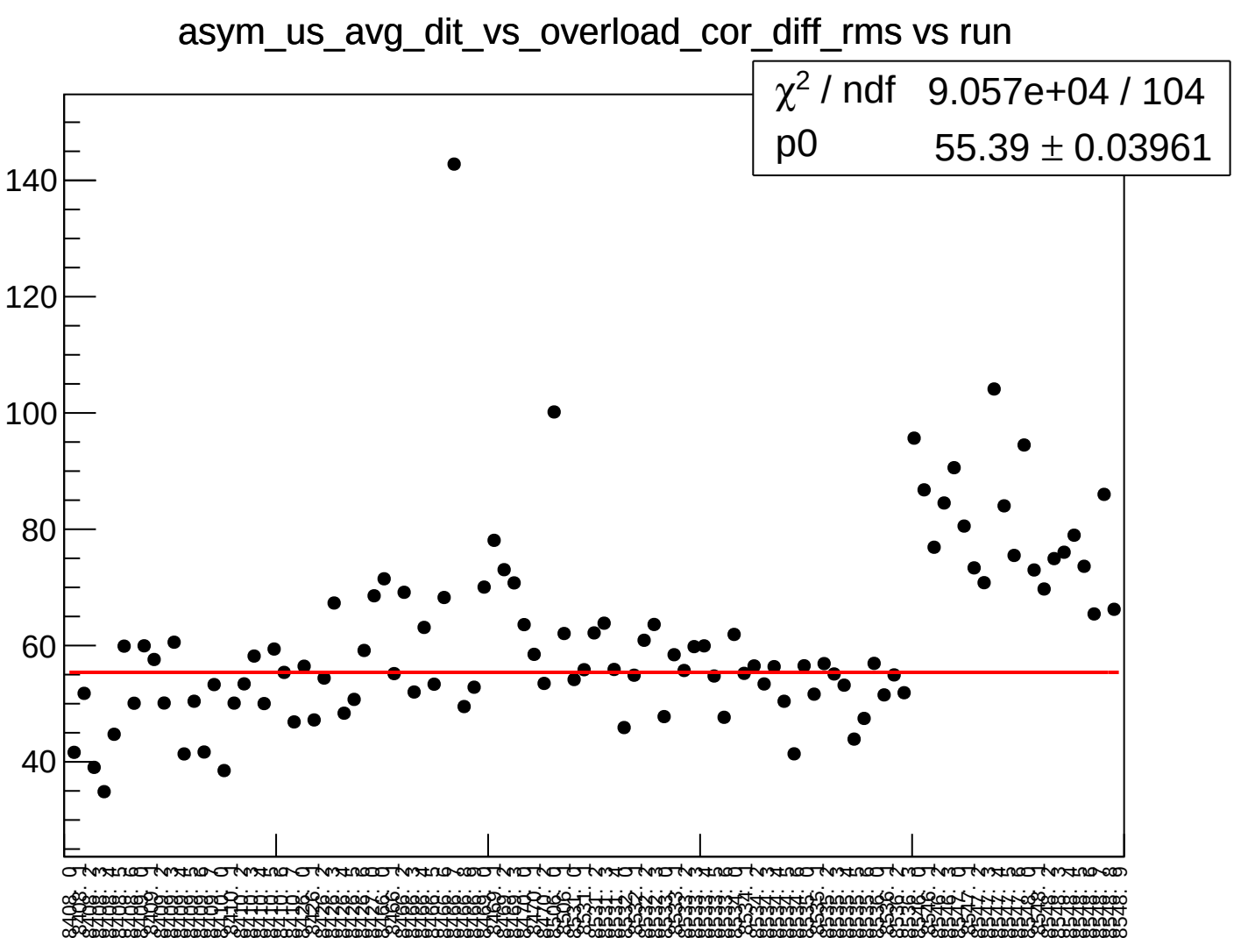

asym_us_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.85 / 104
p0 −0.05687 ± 0.04305
pull
Entries 105
Mean 3330
Std Dev 0

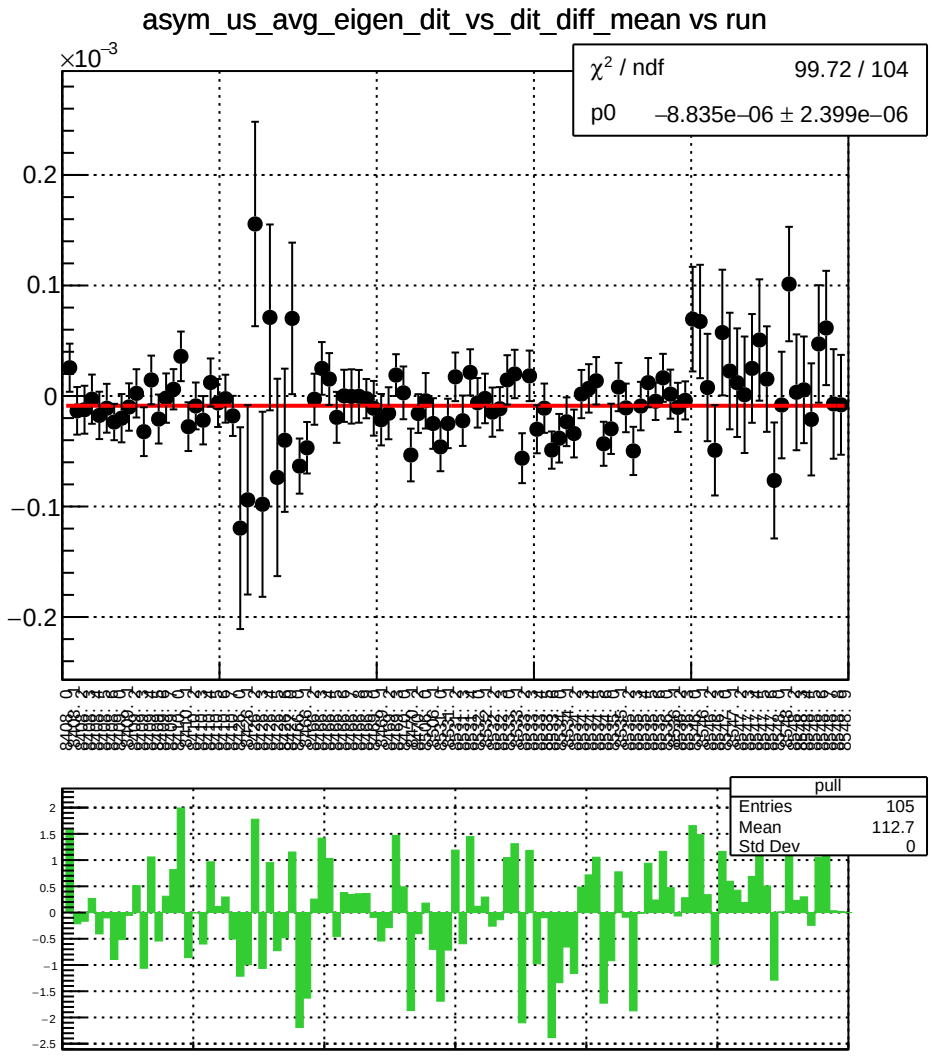

pull1D
Entries 105
Mean 0.0008694
Std Dev 0.9454

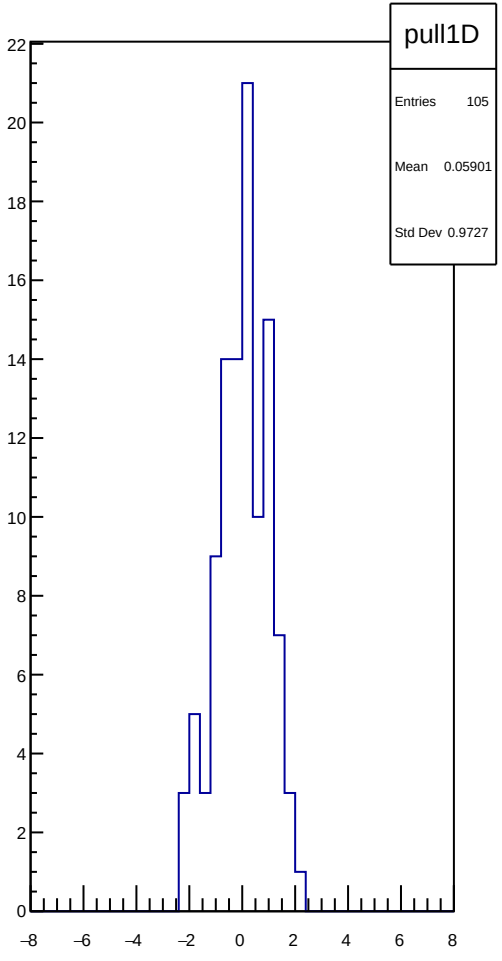

asym_us_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.309e+05 / 104
p0 42.13 ± 0.03044
140
120
100
80
60
40
20

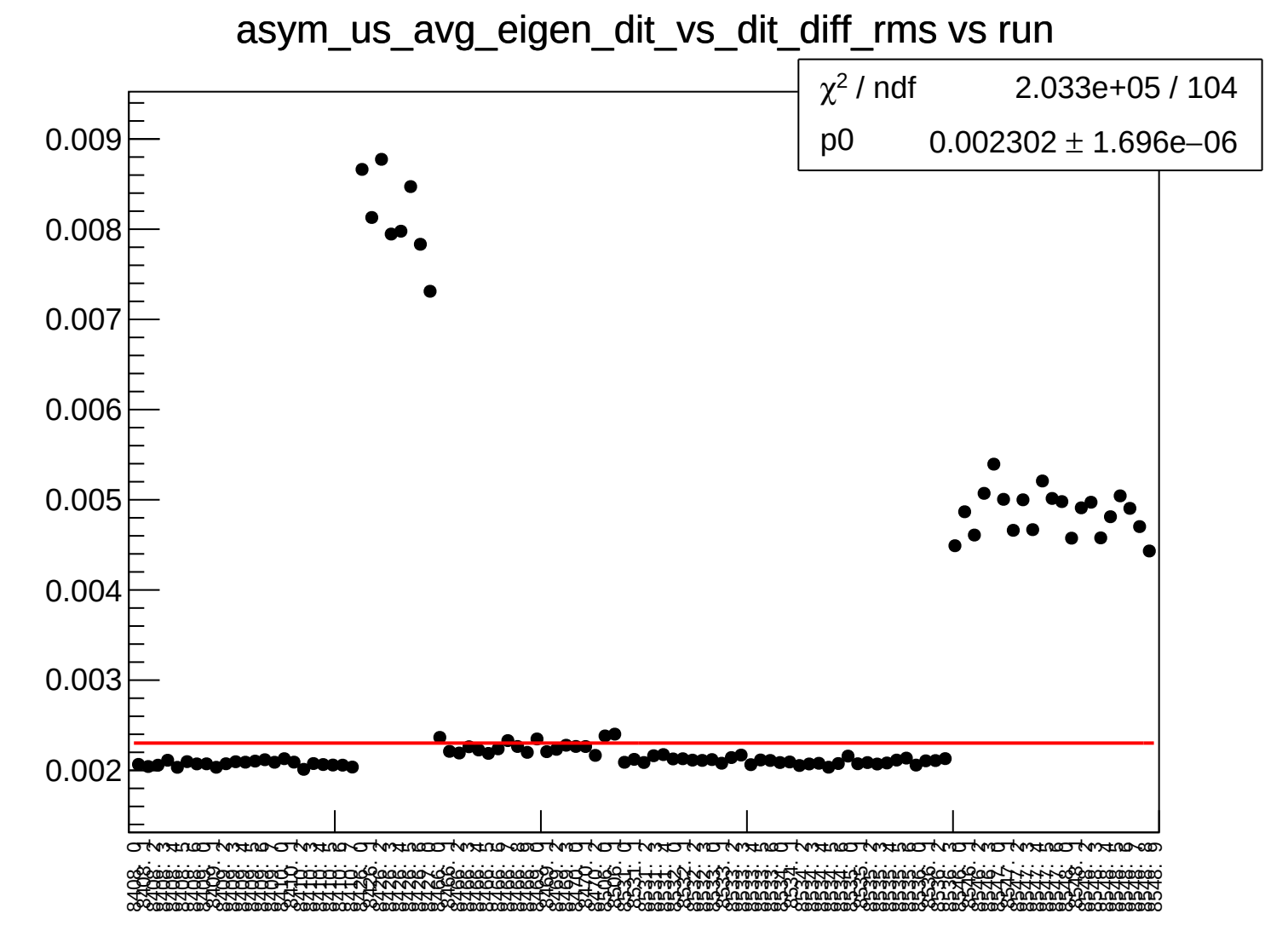

asym_us_avg_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 78.02 / 104
p0 −0.0941 ± 0.05602
pull
Entries 105
Mean 207.1
Std Dev 0

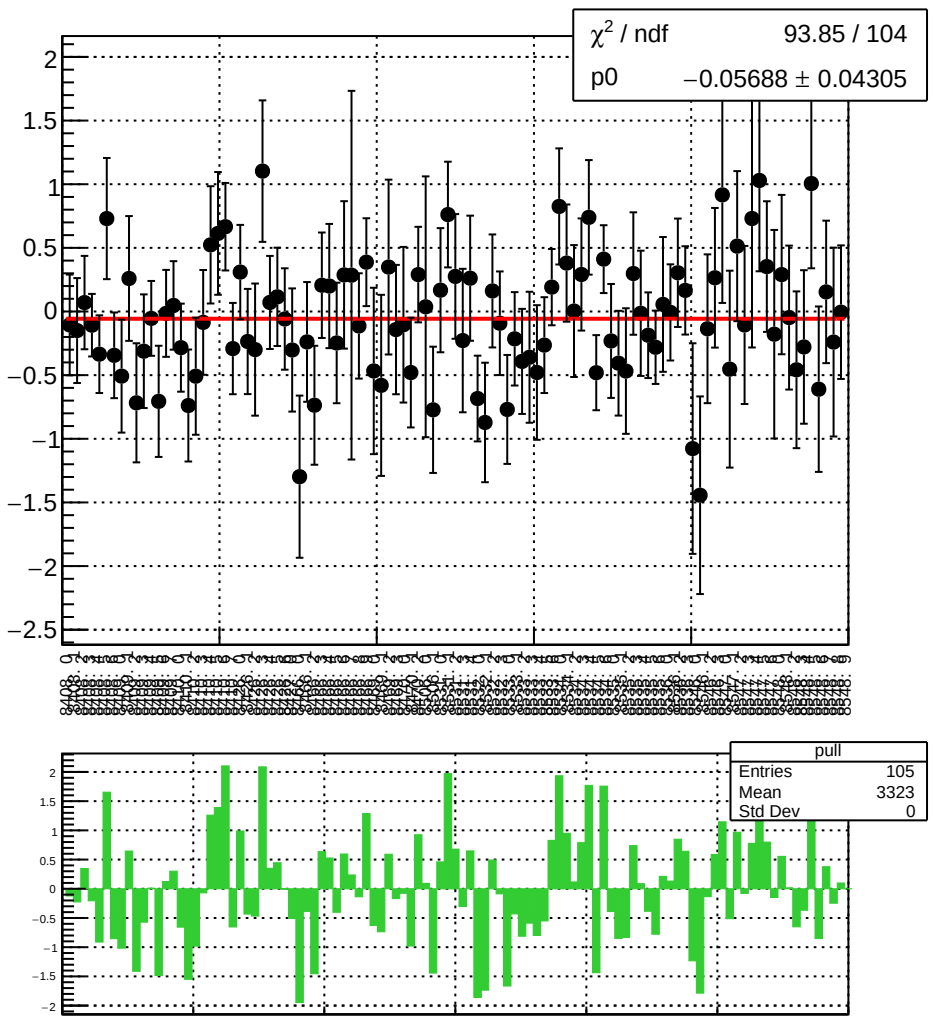

pull1D
Entries 105
Mean 0.02912
Std Dev 0.8615

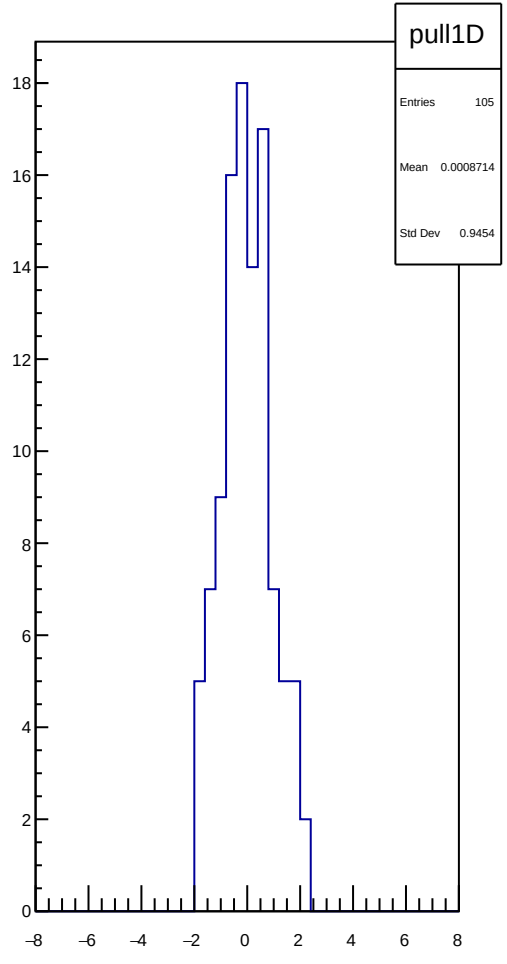

asym_us_avg_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 9.057e+04 / 104
p0 55.39 ± 0.03961
140
120
100
80
60
40

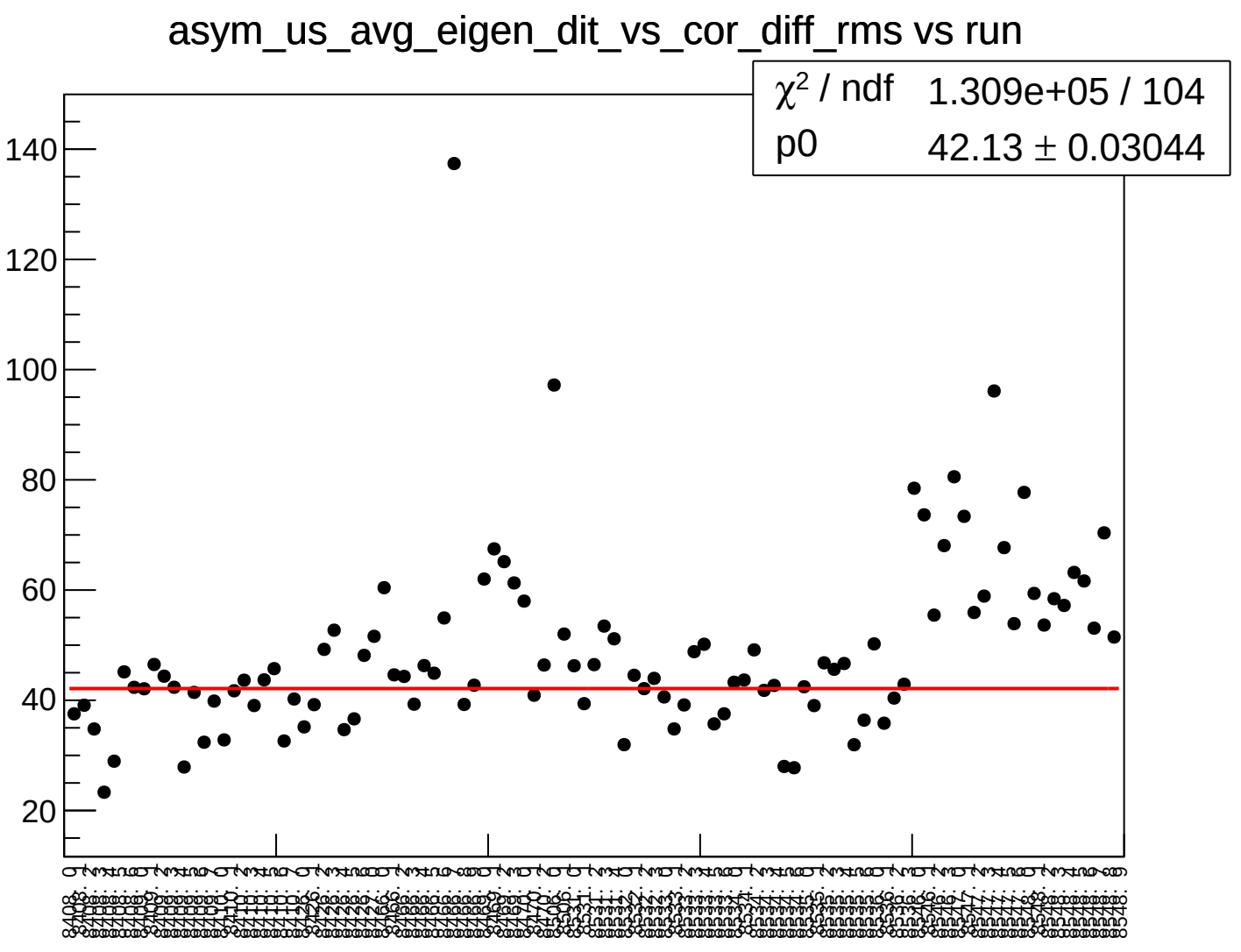

asym_us_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 99.72 / 104
p0 −8.835e−06 ± 2.399e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 105
Mean 112.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

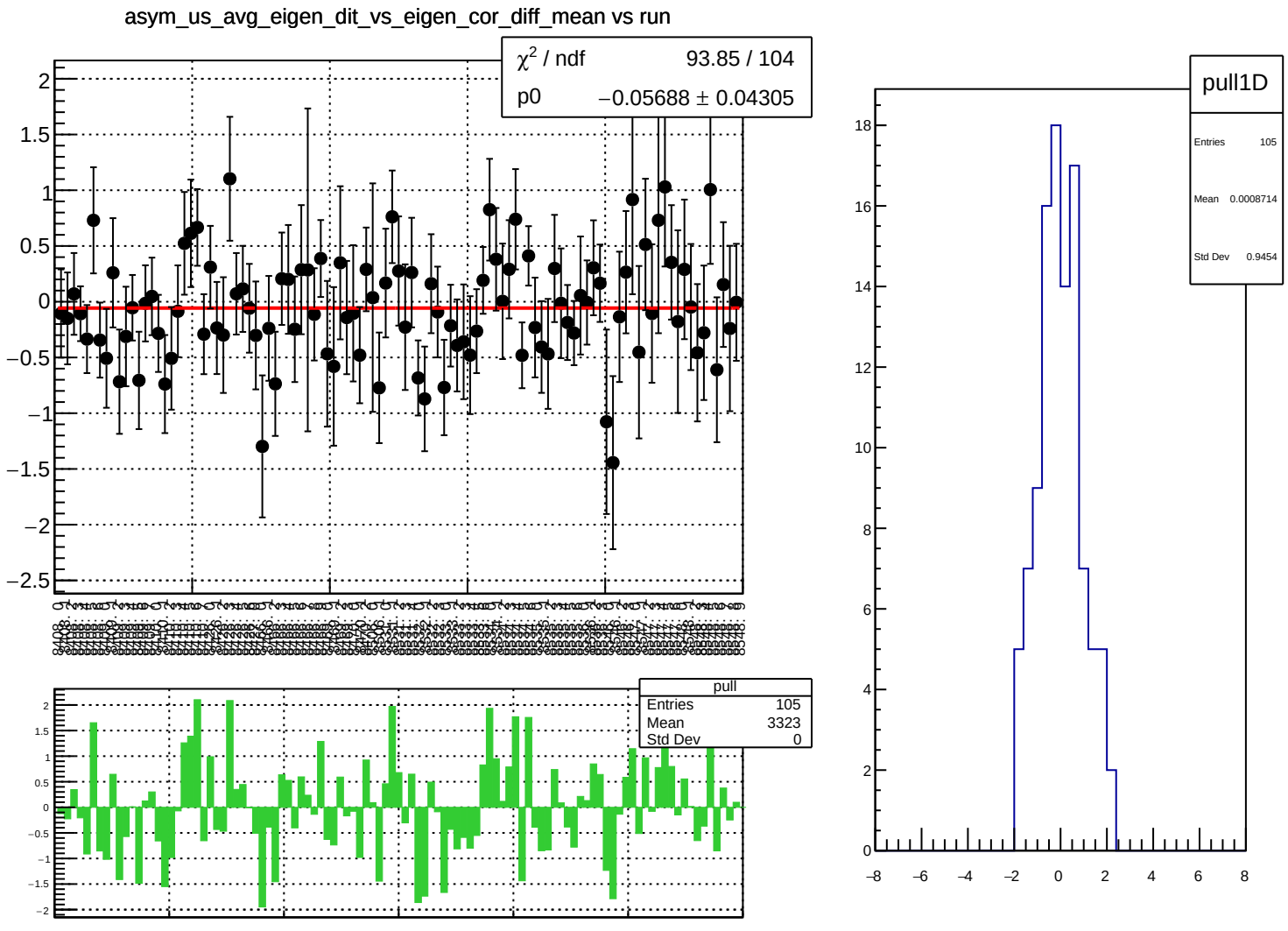

pull1D
Entries 105
Mean 0.05901
Std Dev 0.9727
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

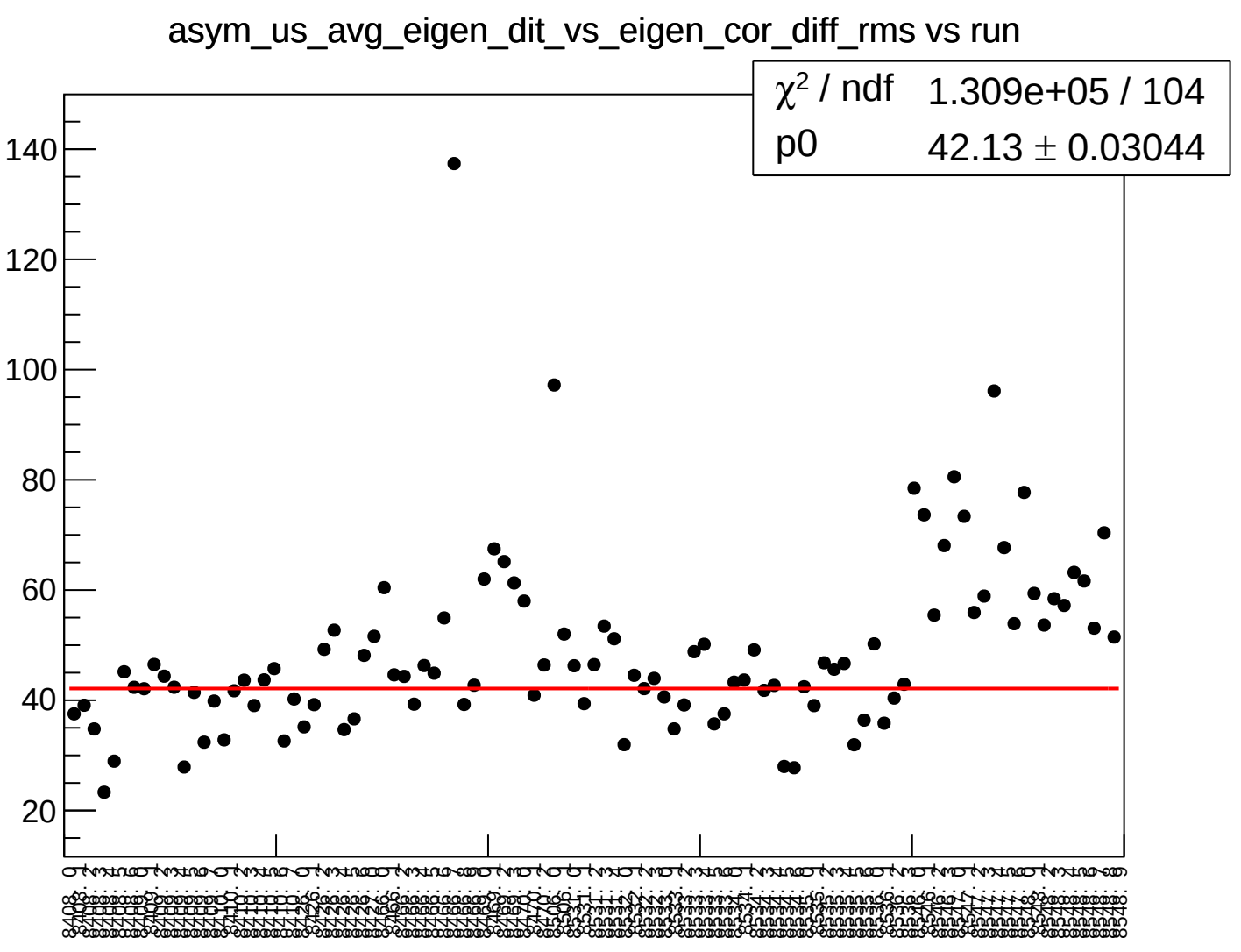

asym_us_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.033e+05 / 104
p0 0.002302 ± 1.696e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002

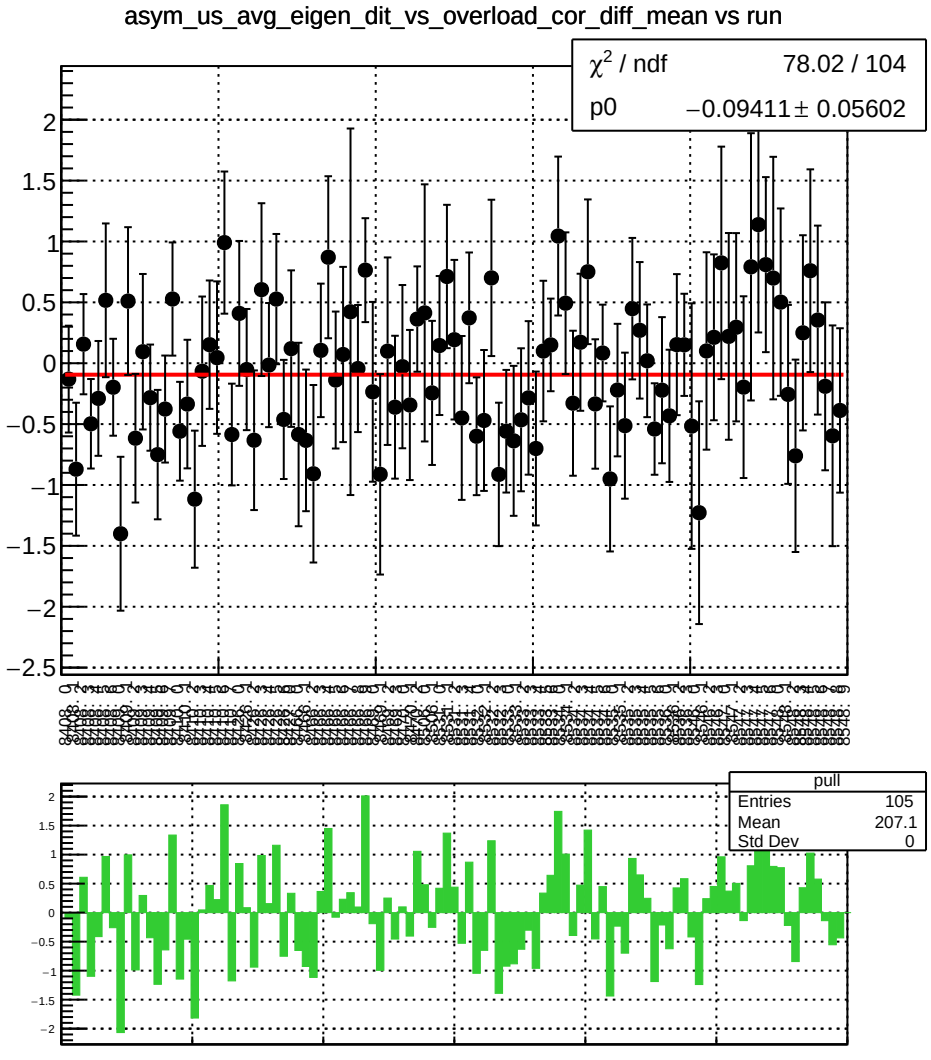

asym_us_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.85 / 104
p0 −0.05688 ± 0.04305
pull
Entries 105
Mean 3323
Std Dev 0

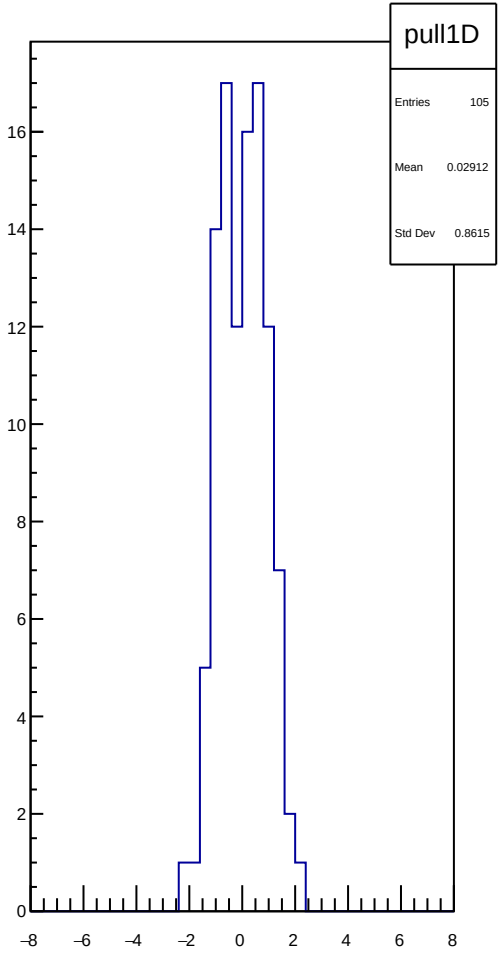

pull1D
Entries 105
Mean 0.0008714
Std Dev 0.9454

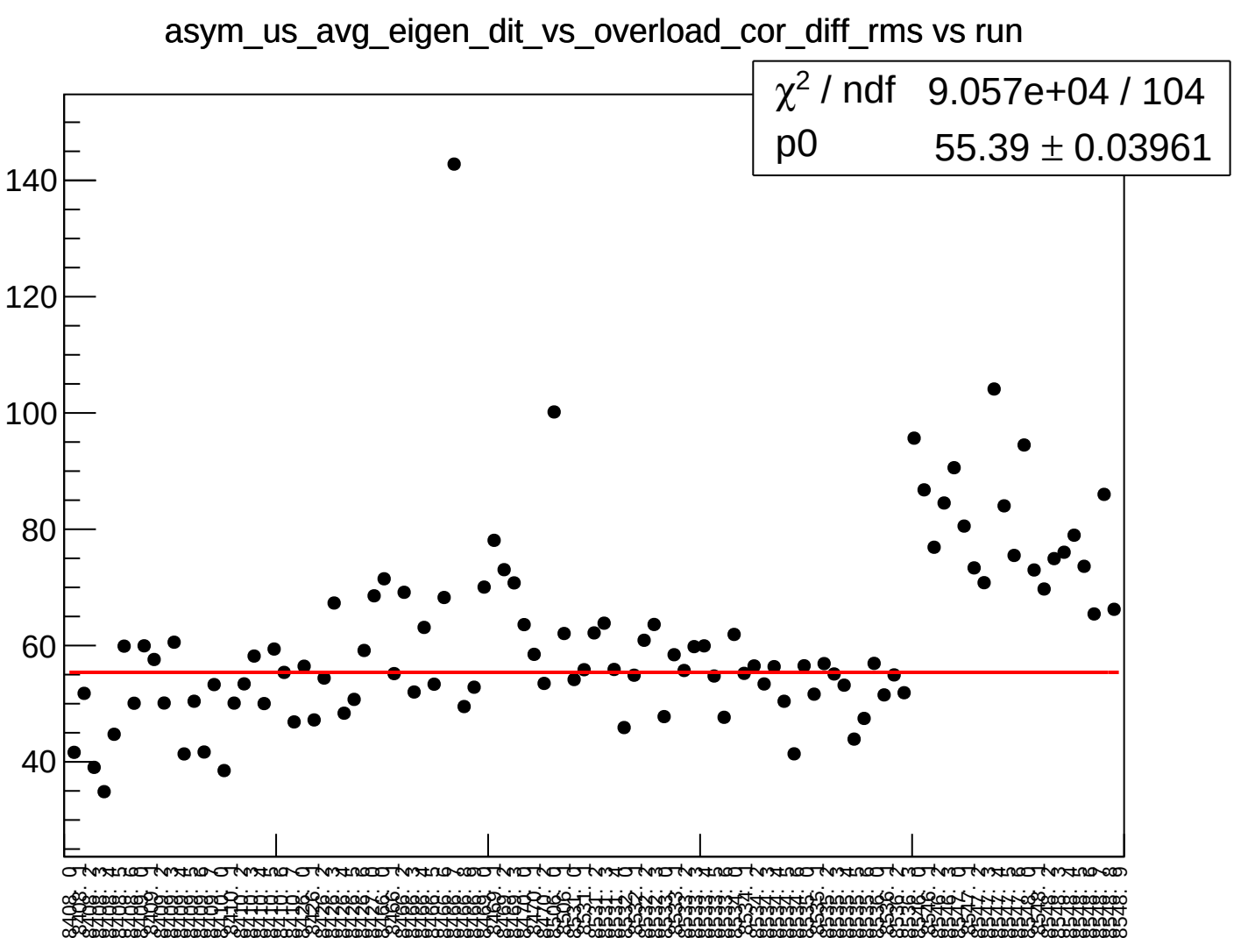

asym_us_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.309e+05 / 104
p0 42.13 ± 0.03044
140
120
100
80
60
40
20

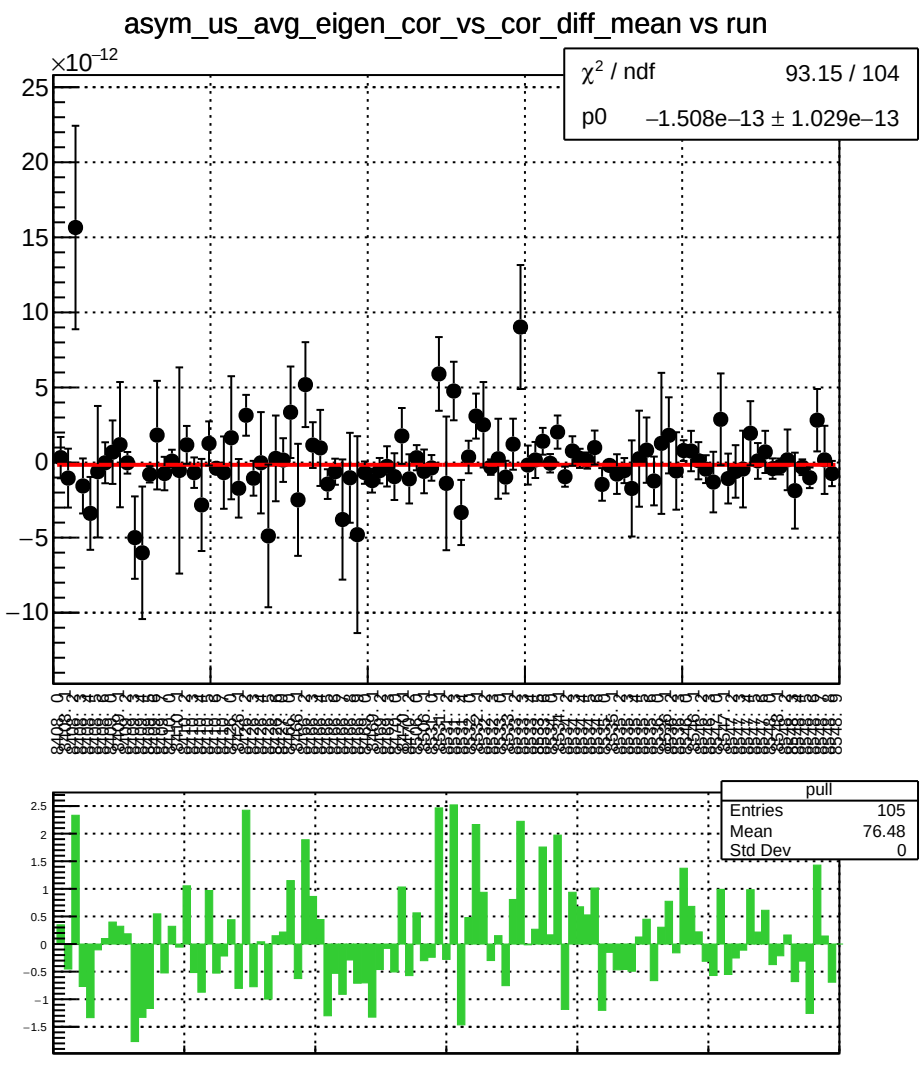

asym_us_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.85 / 104
p0 −0.05688 ± 0.04305
pull
Entries 105
Mean 3323
Std Dev 0
pull1D
Entries 105
Mean 0.0008714
Std Dev 0.9454

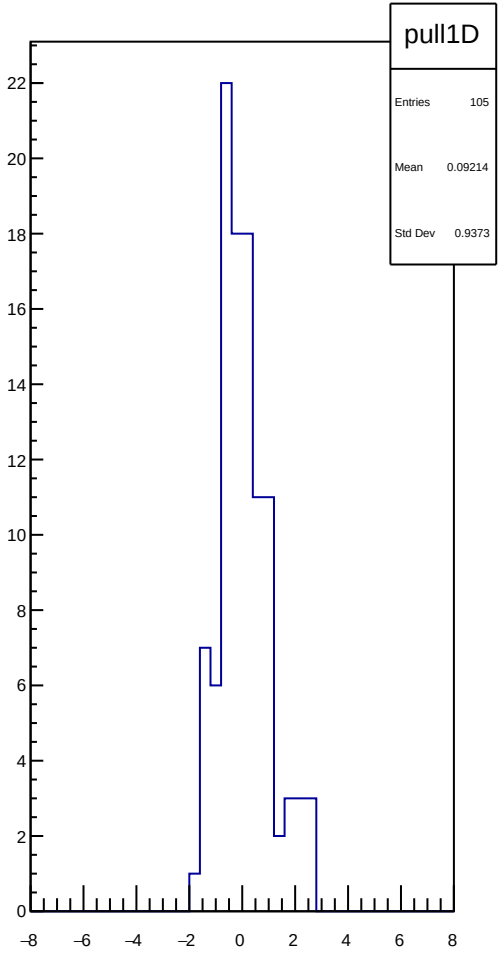

asym_us_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.309e+05 / 104
p0 42.13 ± 0.03044
140
120
100
80
60
40
20

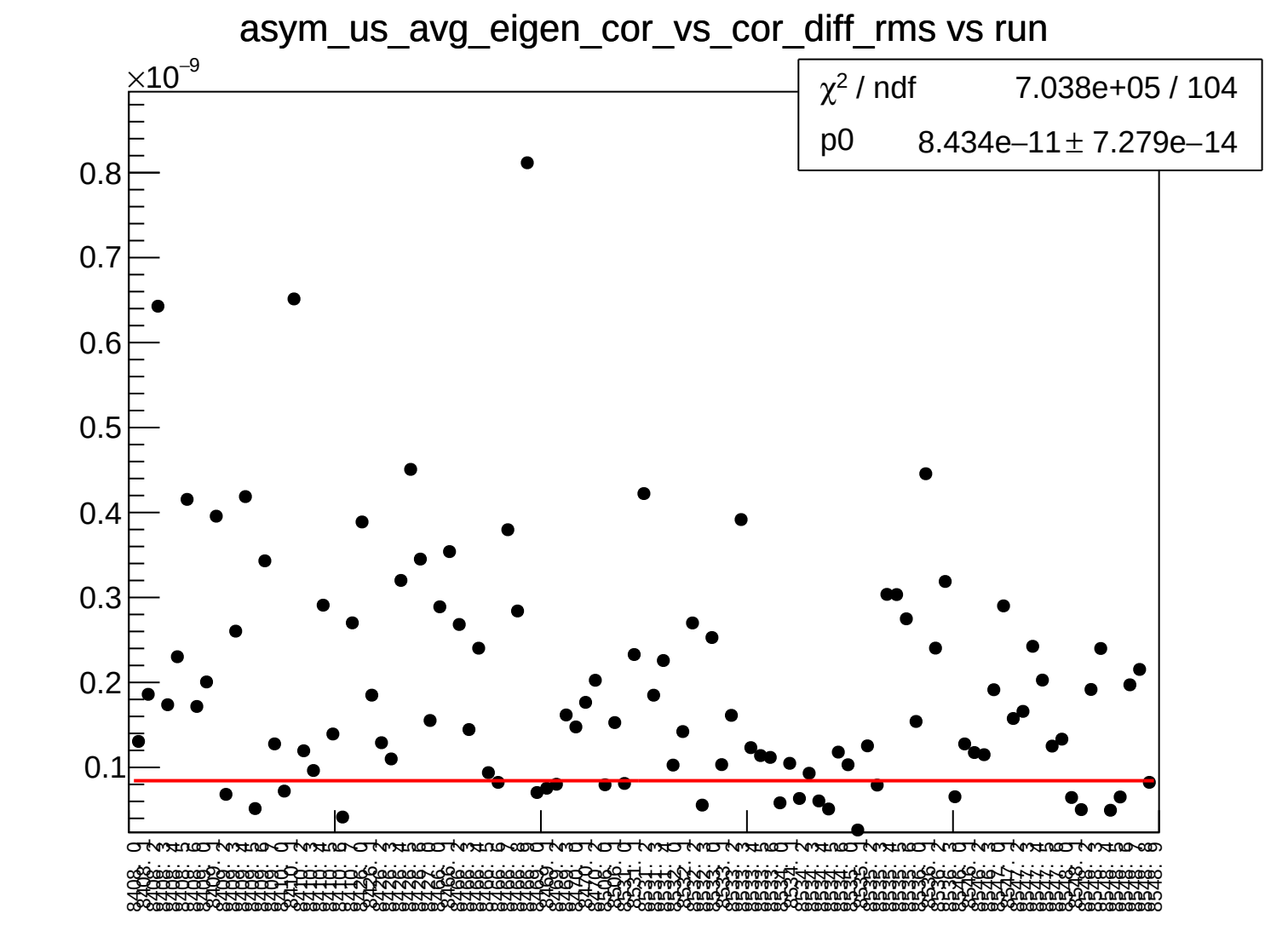

asym_us_avg_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 78.02 / 104
p0 −0.09411 ± 0.05602
pull
Entries 105
Mean 207.1
Std Dev 0

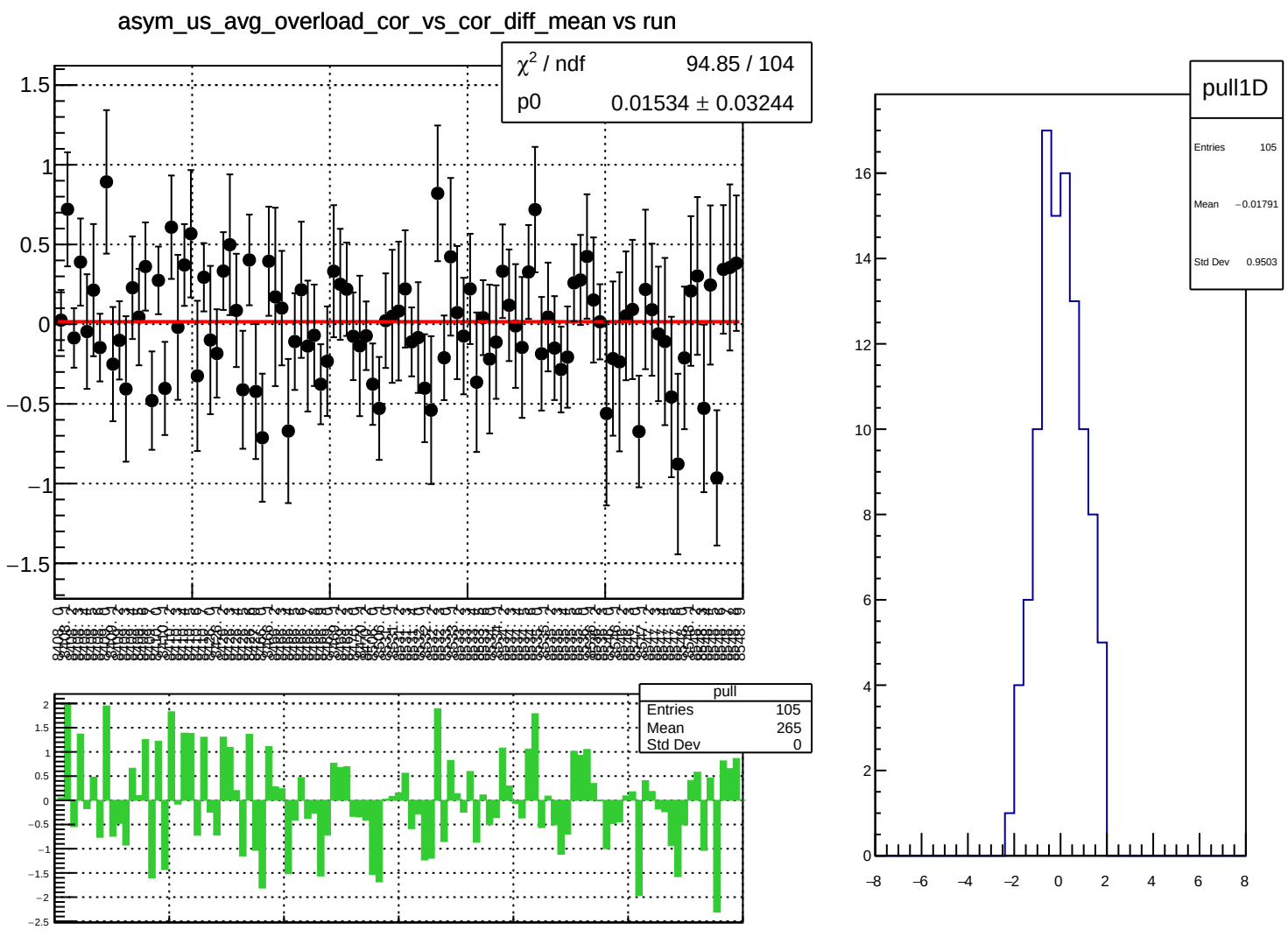

pull1D
Entries 105
Mean 0.02912
Std Dev 0.8615

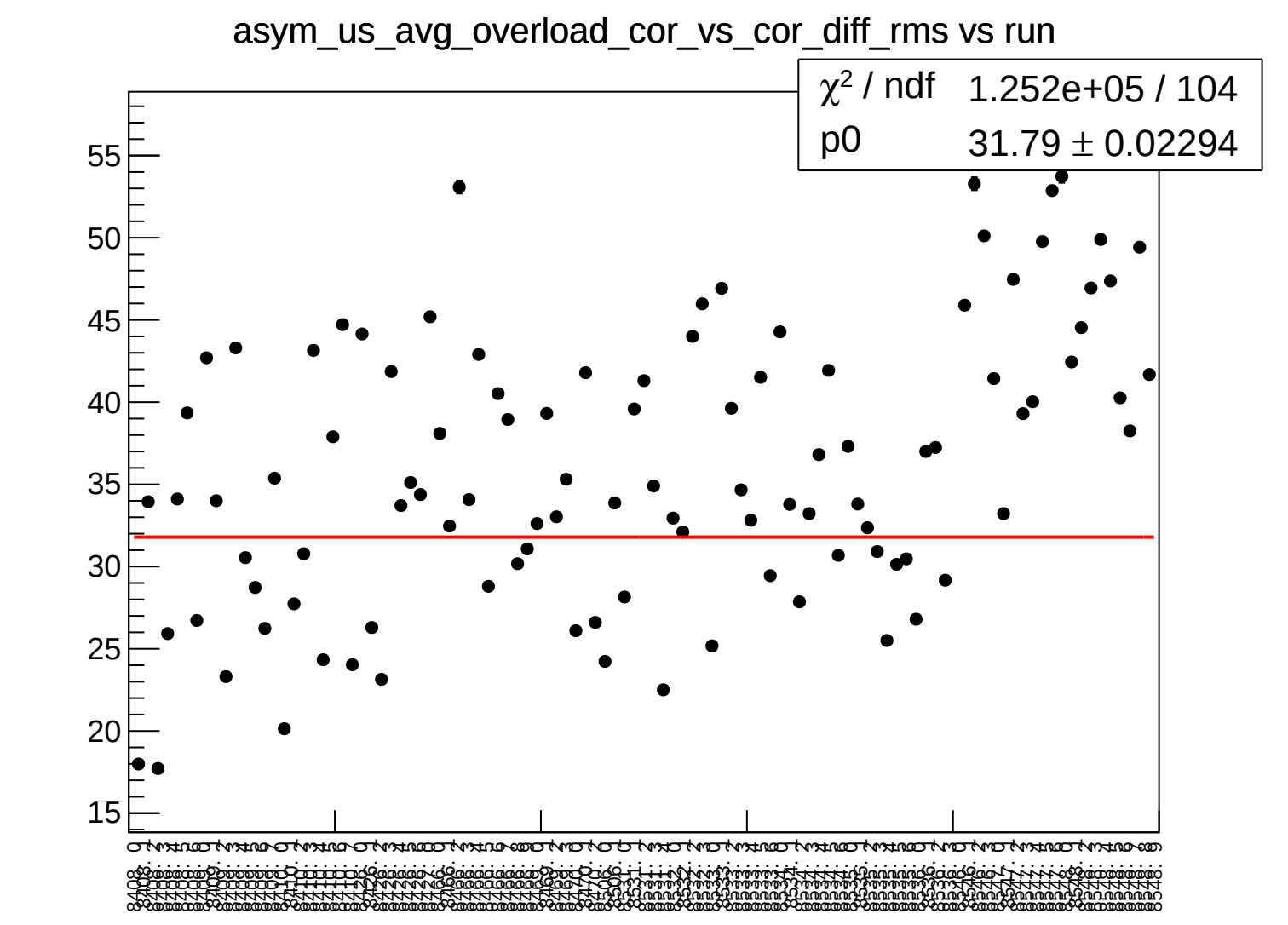

asym_us_avg_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 9.057e+04 / 104
p0 55.39 ± 0.03961
140
120
100
80
60
40

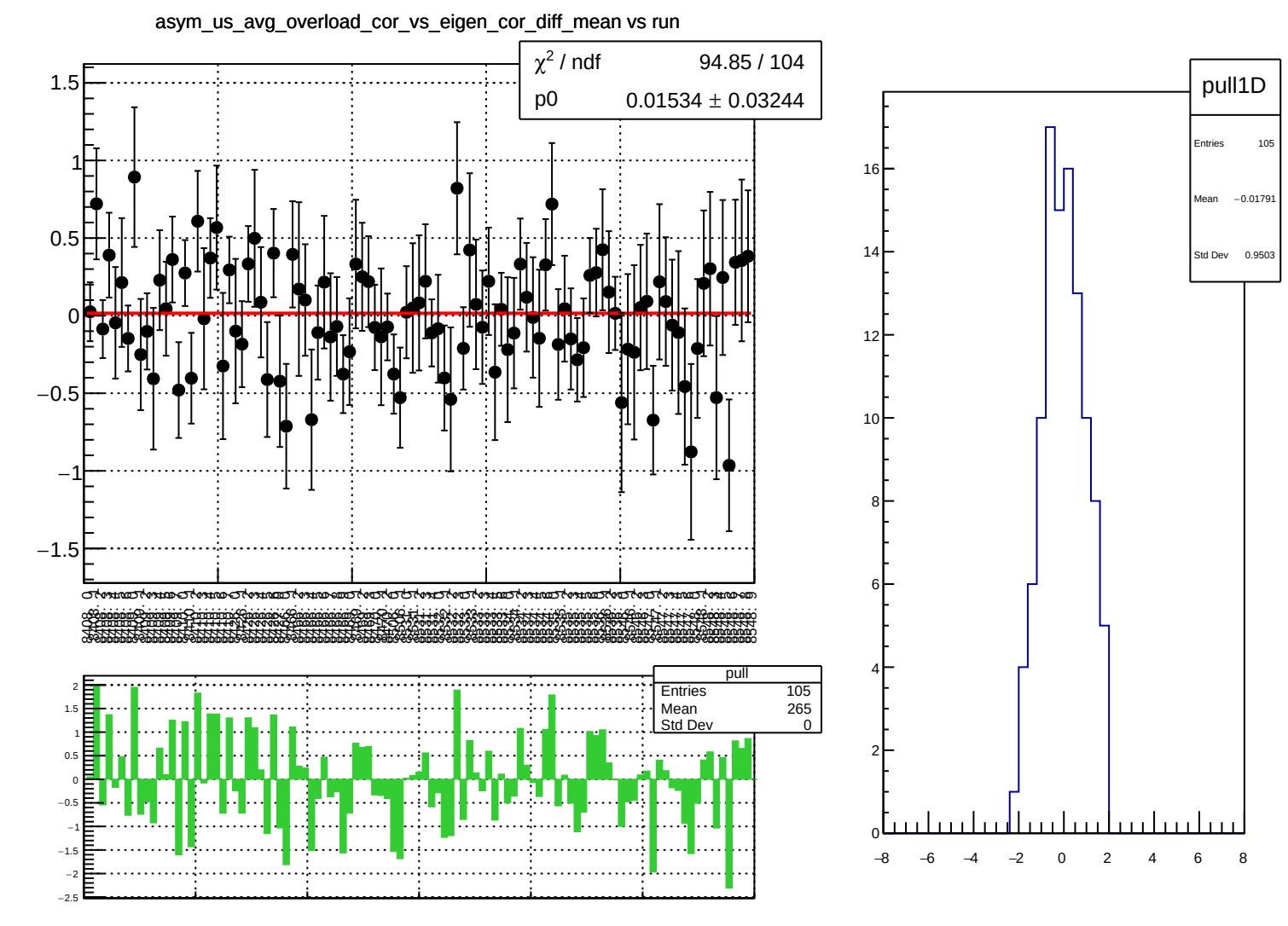

asym_us_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.15 / 104
p0 −1.508e−13 ± 1.029e−13
pull
Entries 105
Mean 76.48
Std Dev 0

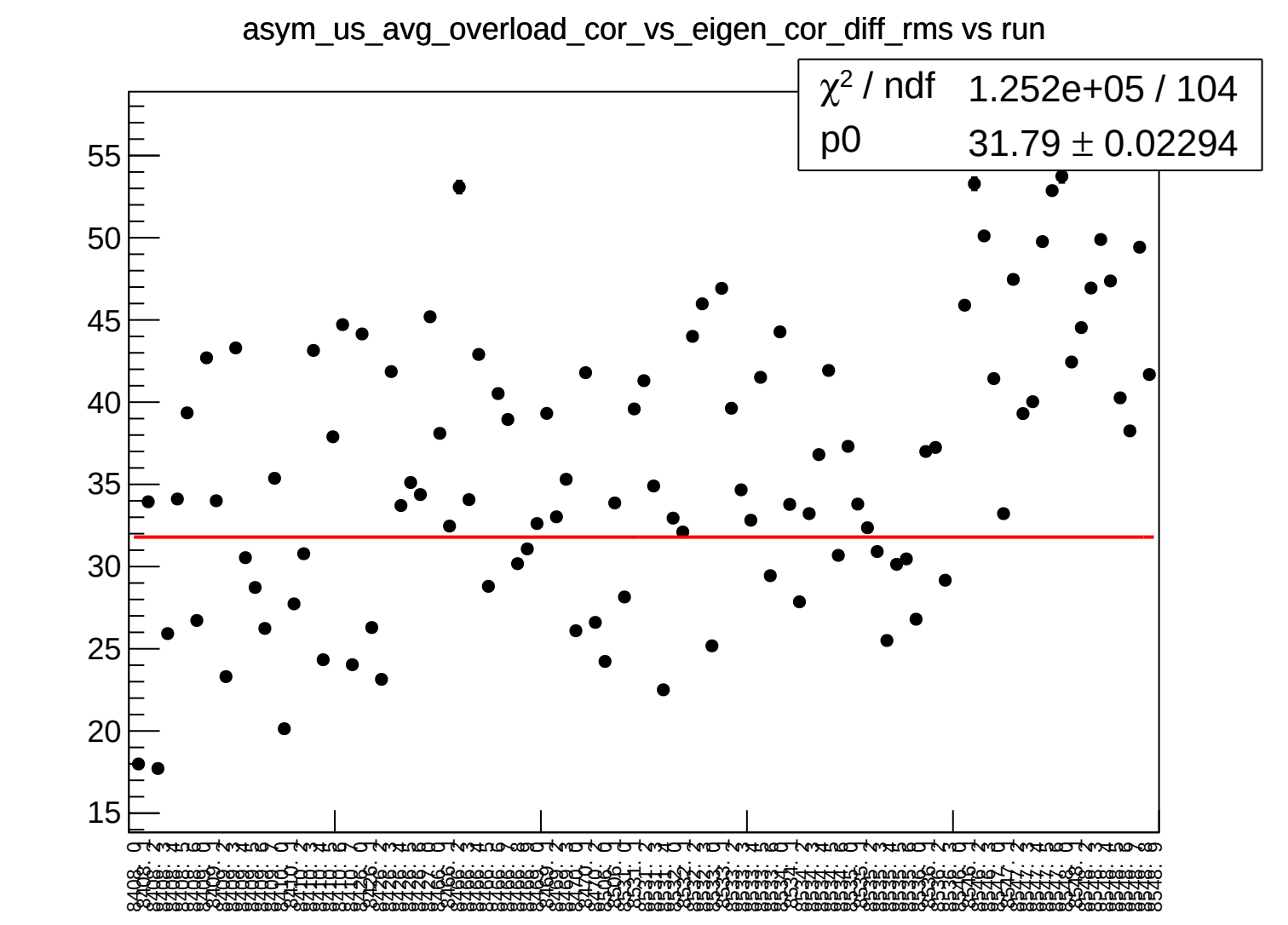

pull1D
Entries 105
Mean 0.09214
Std Dev 0.9373

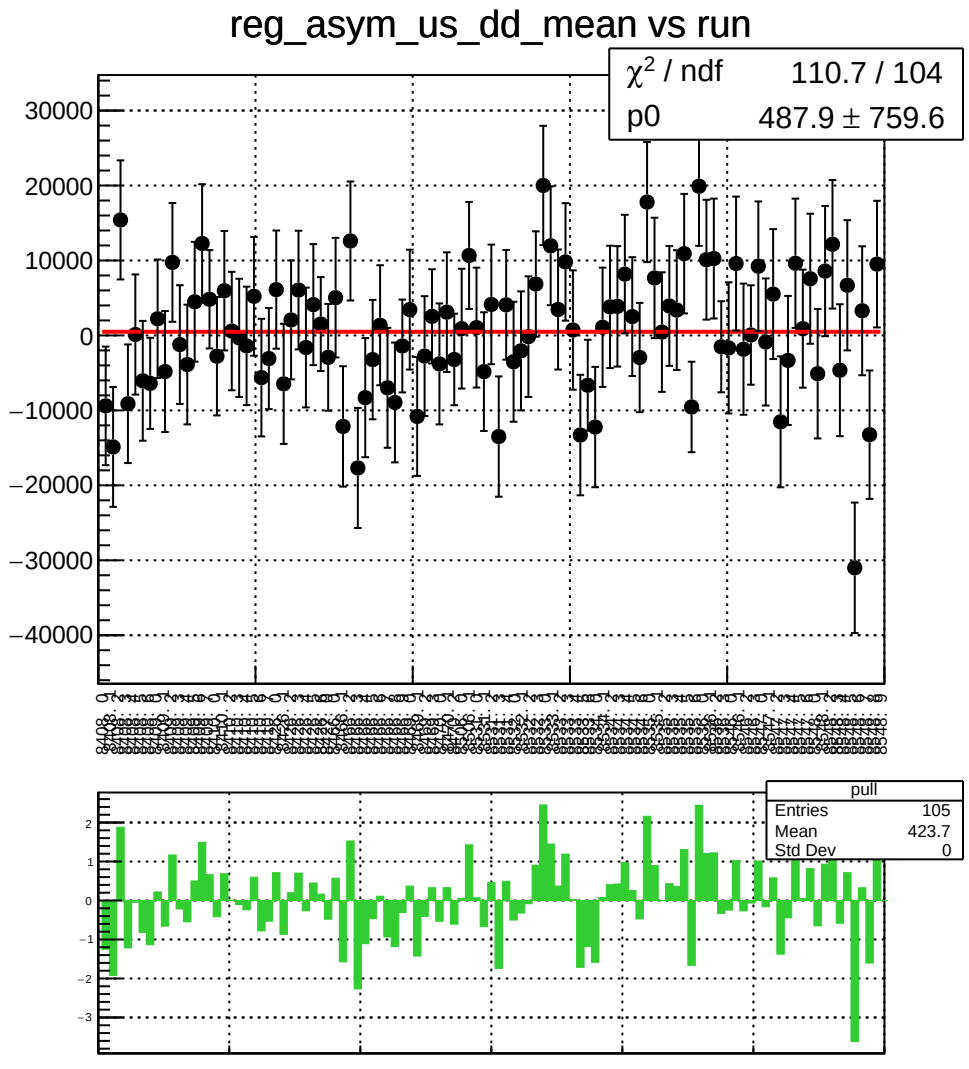

asym_us_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.038e+05 / 104
p0 8.434e−11 ± 7.279e−14
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

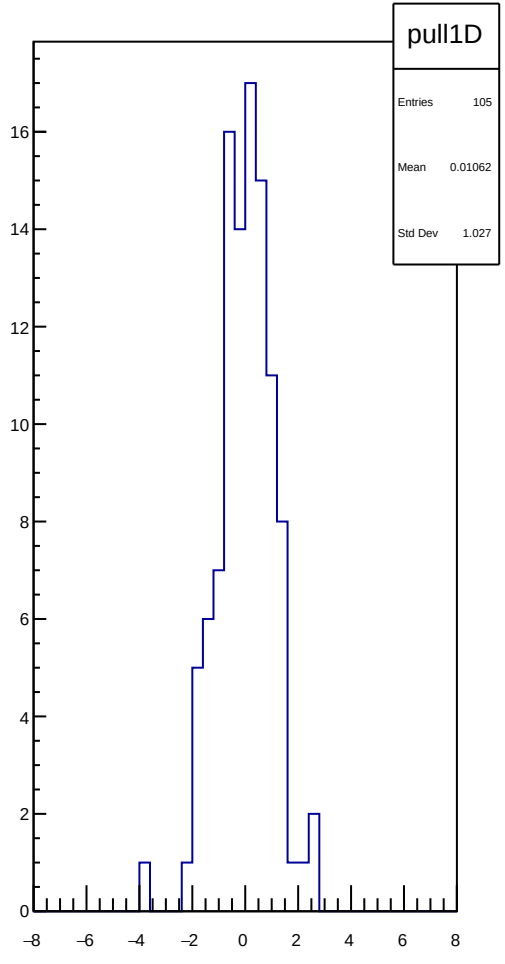

asym_us_avg_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 94.85 / 104
p0 0.01534 ± 0.03244
pull
Entries 105
Mean 265
Std Dev 0
pull1D
Entries 105
Mean −0.01791
Std Dev 0.9503

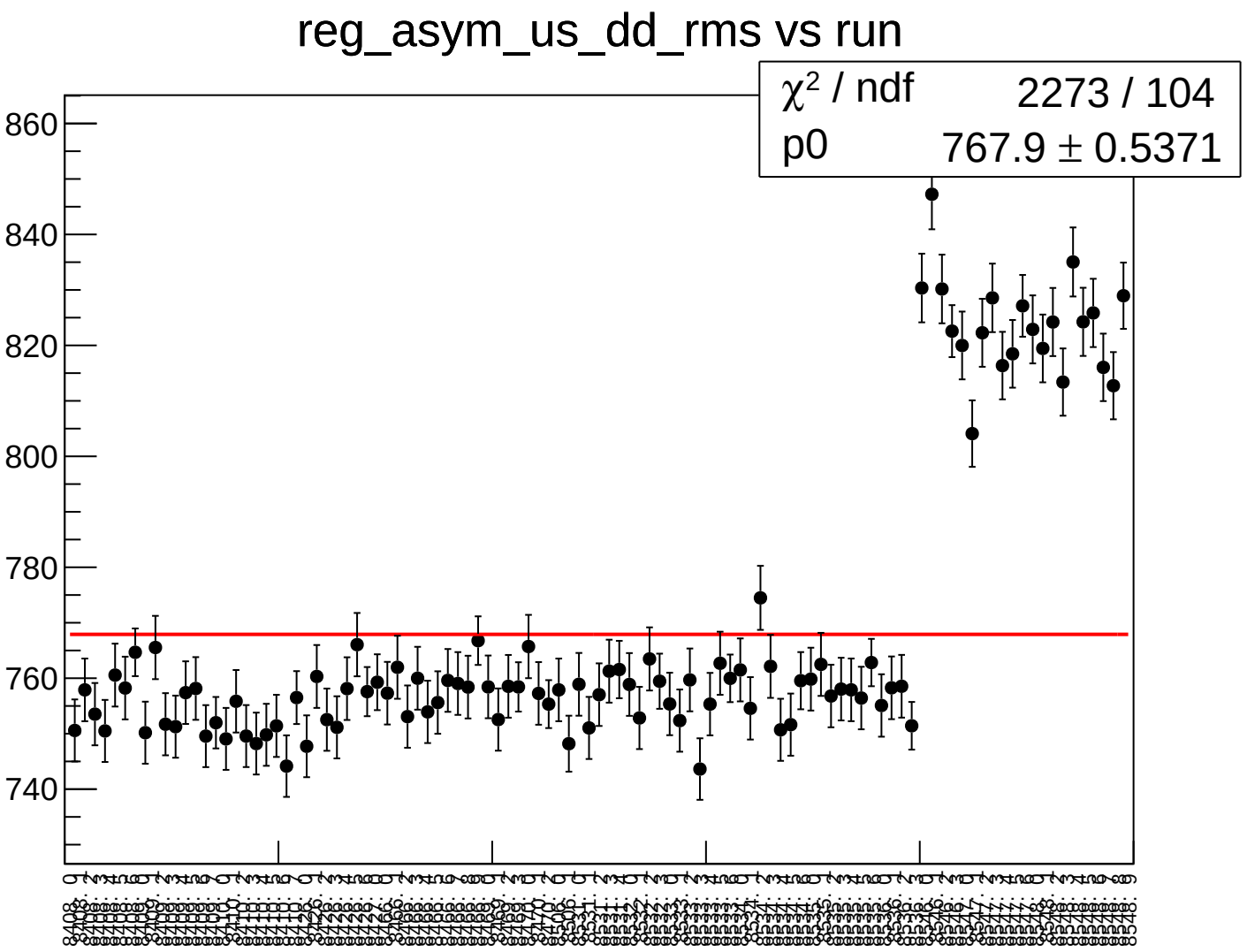

asym_us_avg_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.252e+05 / 104
p0 31.79 ± 0.02294
55
50
45
40
35
30
25
20
15

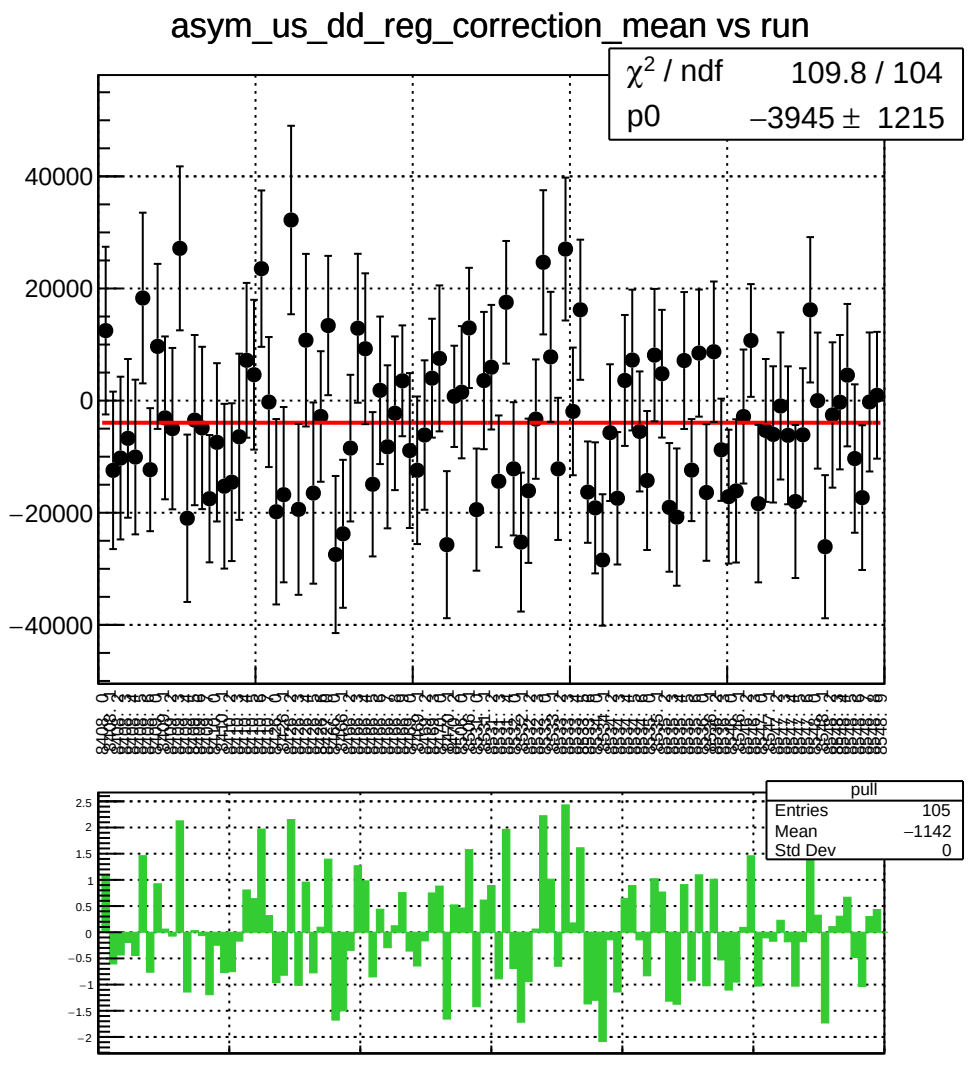

asym_us_avg_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 94.85 / 104
p0 0.01534 ± 0.03244
pull
Entries 105
Mean 265
Std Dev 0
pull1D
Entries 105
Mean −0.01791
Std Dev 0.9503

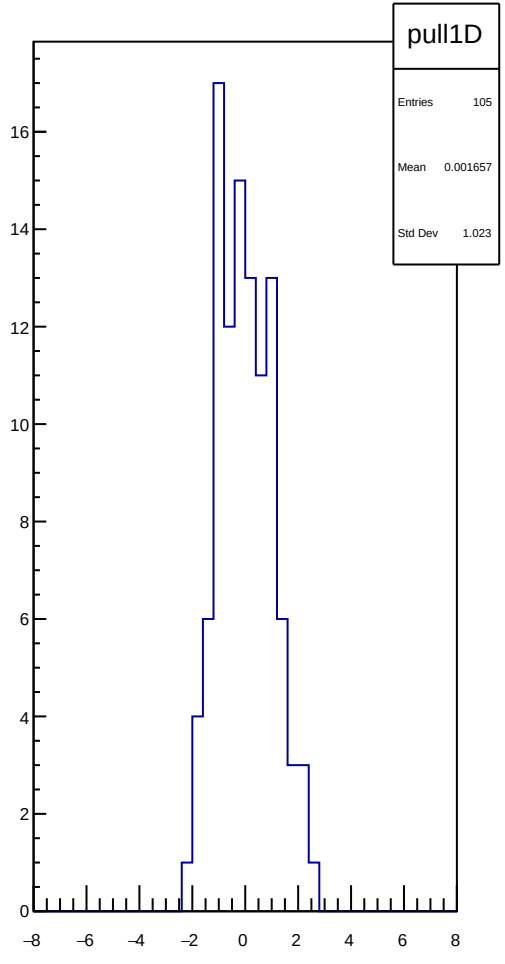

asym_us_avg_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.252e+05 / 104
p0 31.79 ± 0.02294
55
50
45
40
35
30
25
20
15

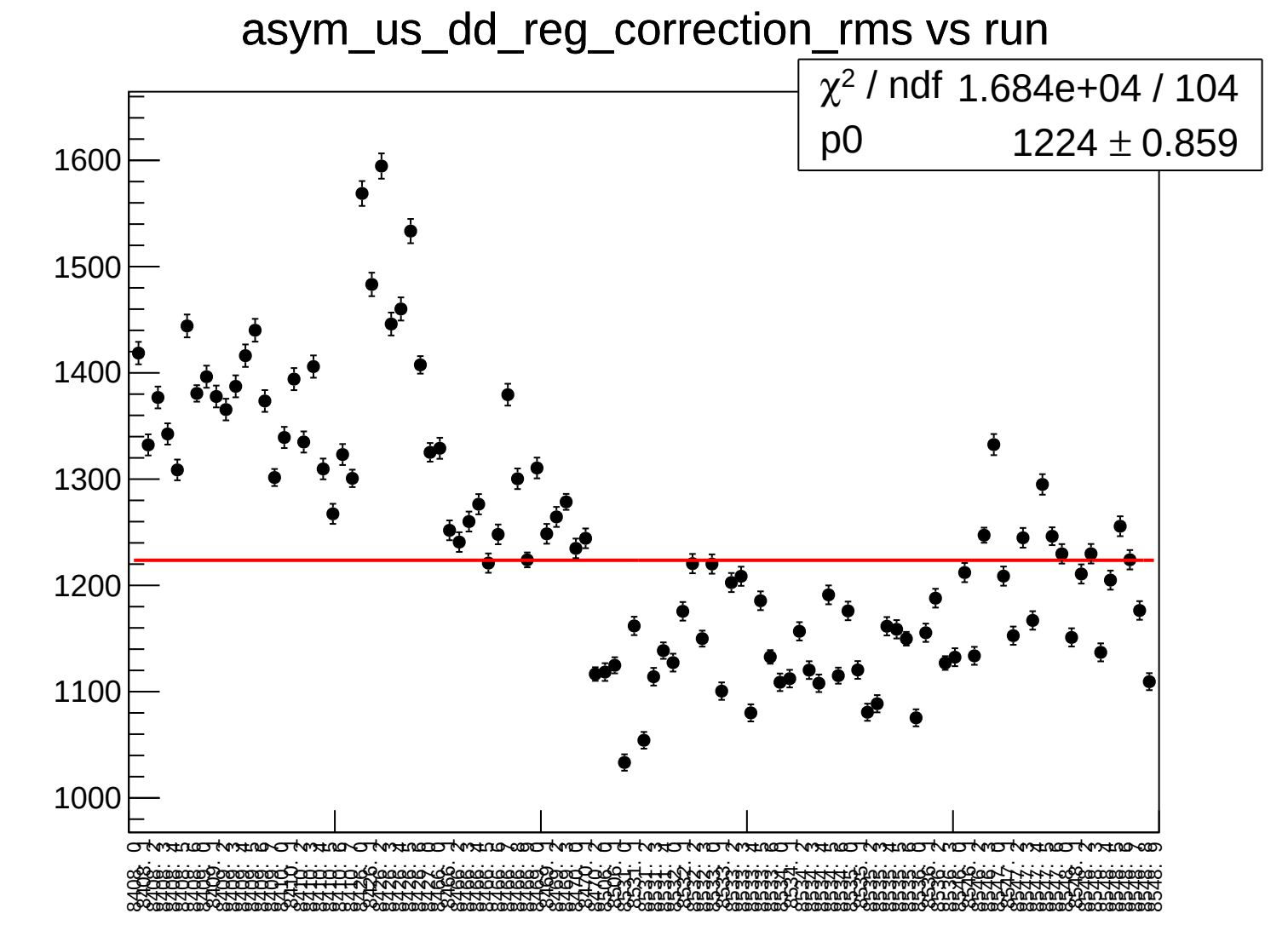

reg_asym_us_dd_mean vs run
χ² / ndf 110.7 / 104
p0 487.9 ± 759.6
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 105
Mean 423.7
Std Dev 0
2
1
0
−1
−2
−3

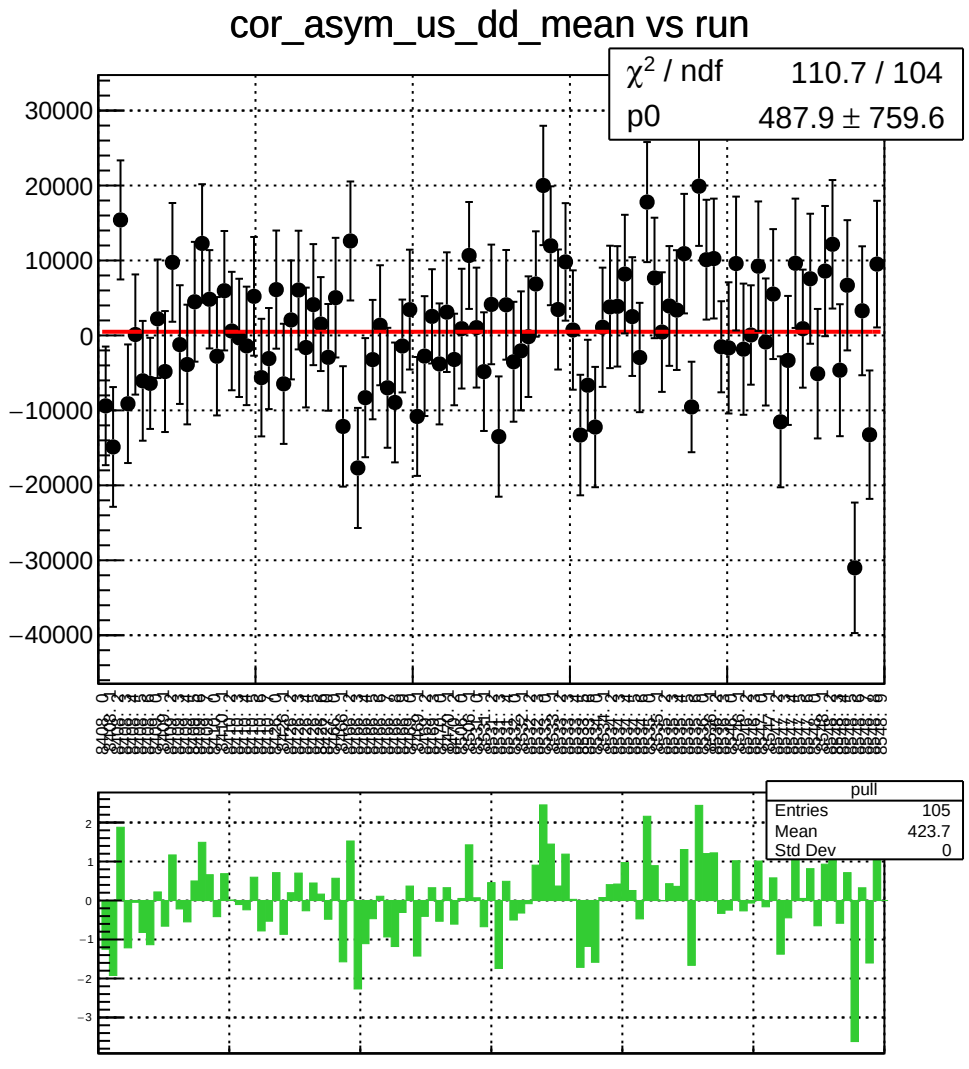

pull1D
Entries 105
Mean 0.01062
Std Dev 1.027
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

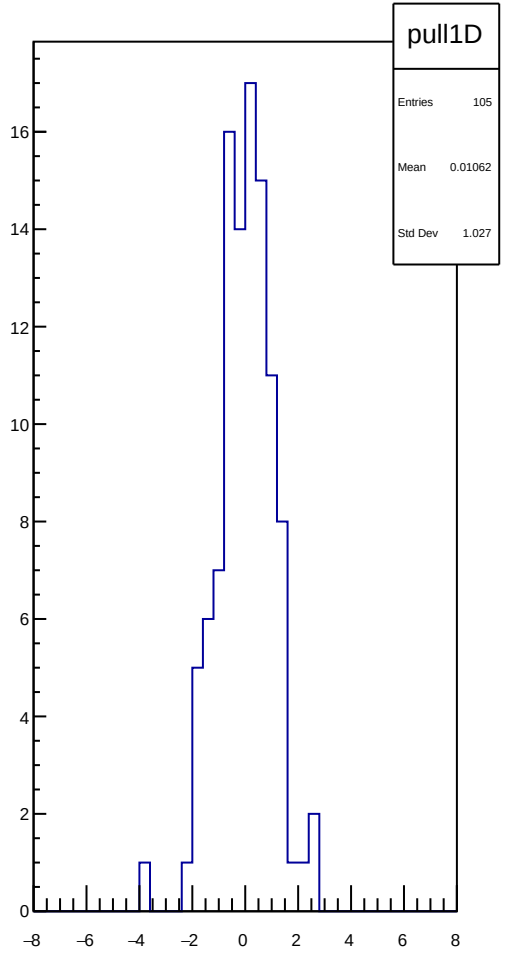

reg_asym_us_dd_rms vs run
χ² / ndf 2273 / 104
p0 767.9 ± 0.5371
860
840
820
800
780
760
740

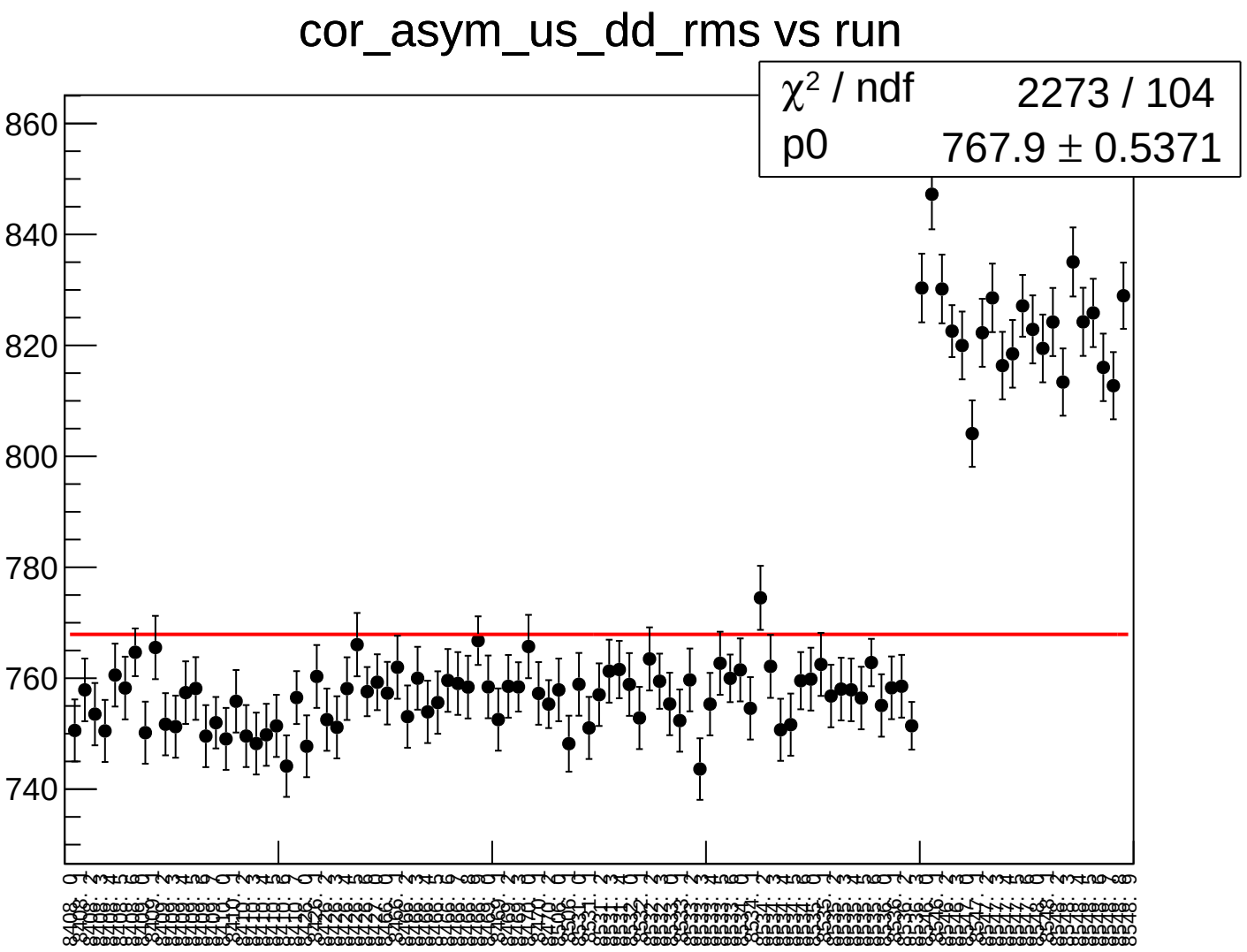

asym_us_dd_reg_correction_mean vs run
χ² / ndf 109.8 / 104
p0 −3945 ± 1215
40000
20000
0
−20000
−40000
pull
Entries 105
Mean −1142
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

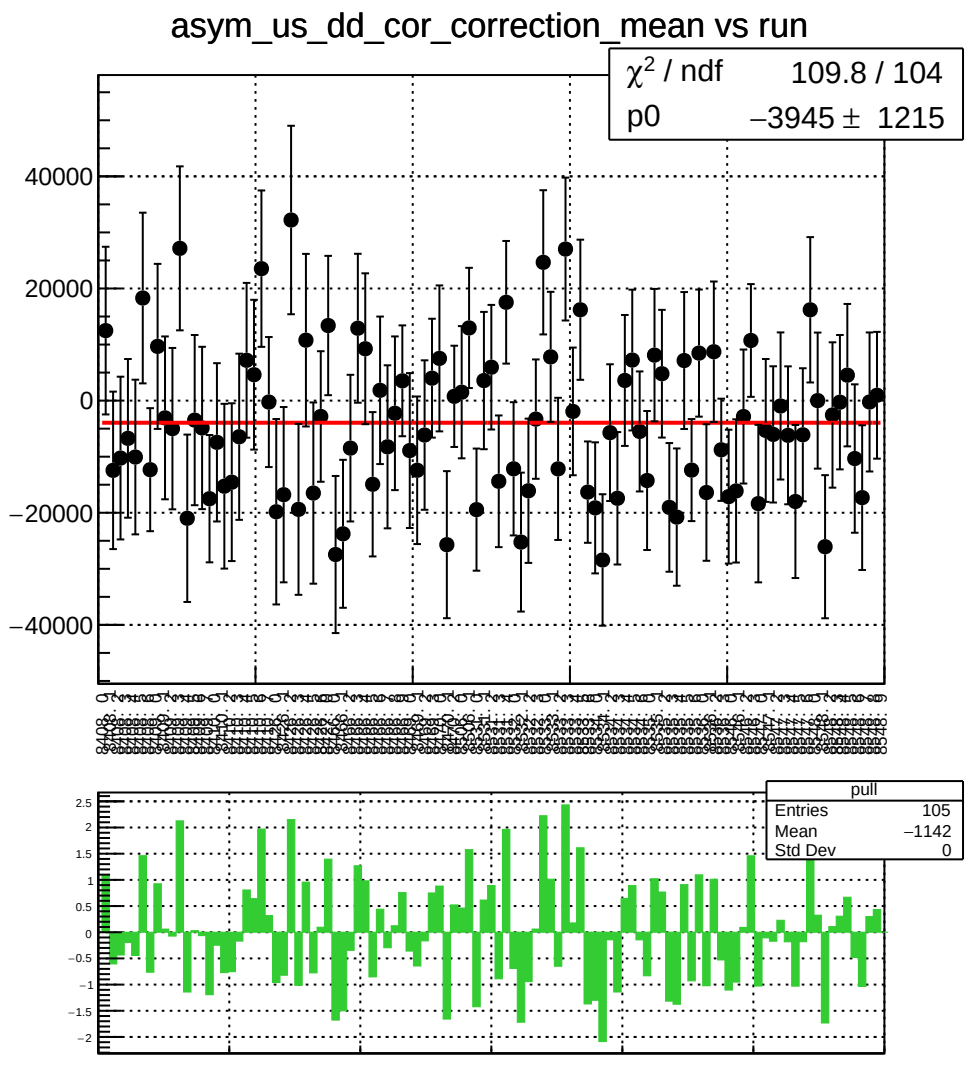

pull1D
Entries 105
Mean 0.001657
Std Dev 1.023
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

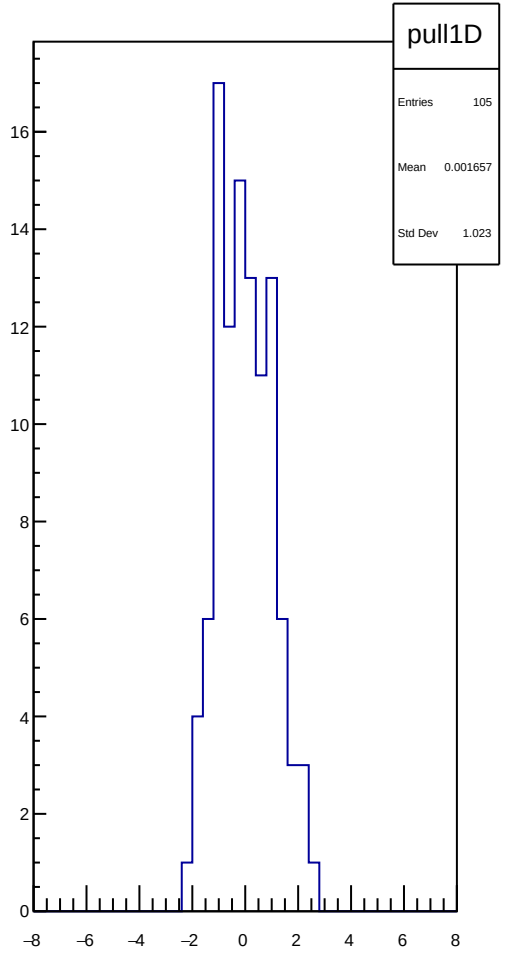

asym_us_dd_reg_correction_rms vs run
χ² / ndf 1.684e+04 / 104
p0 1224 ± 0.859
1600
1500
1400
1300
1200
1100
1000

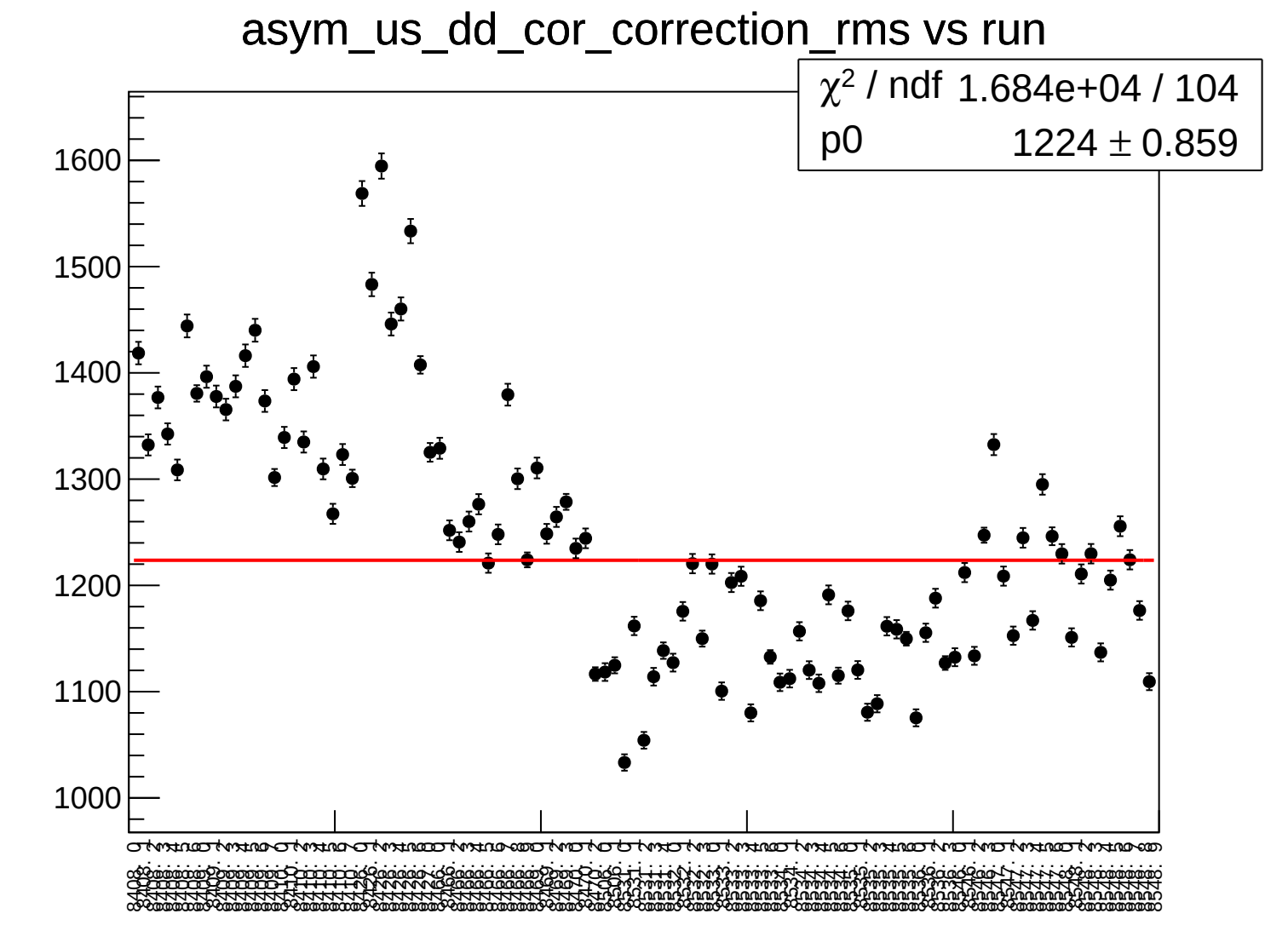

cor_asym_us_dd_mean vs run
χ² / ndf 110.7 / 104
p0 487.9 ± 759.6
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 105
Mean 423.7
Std Dev 0
2
1
0
−1
−2
−3

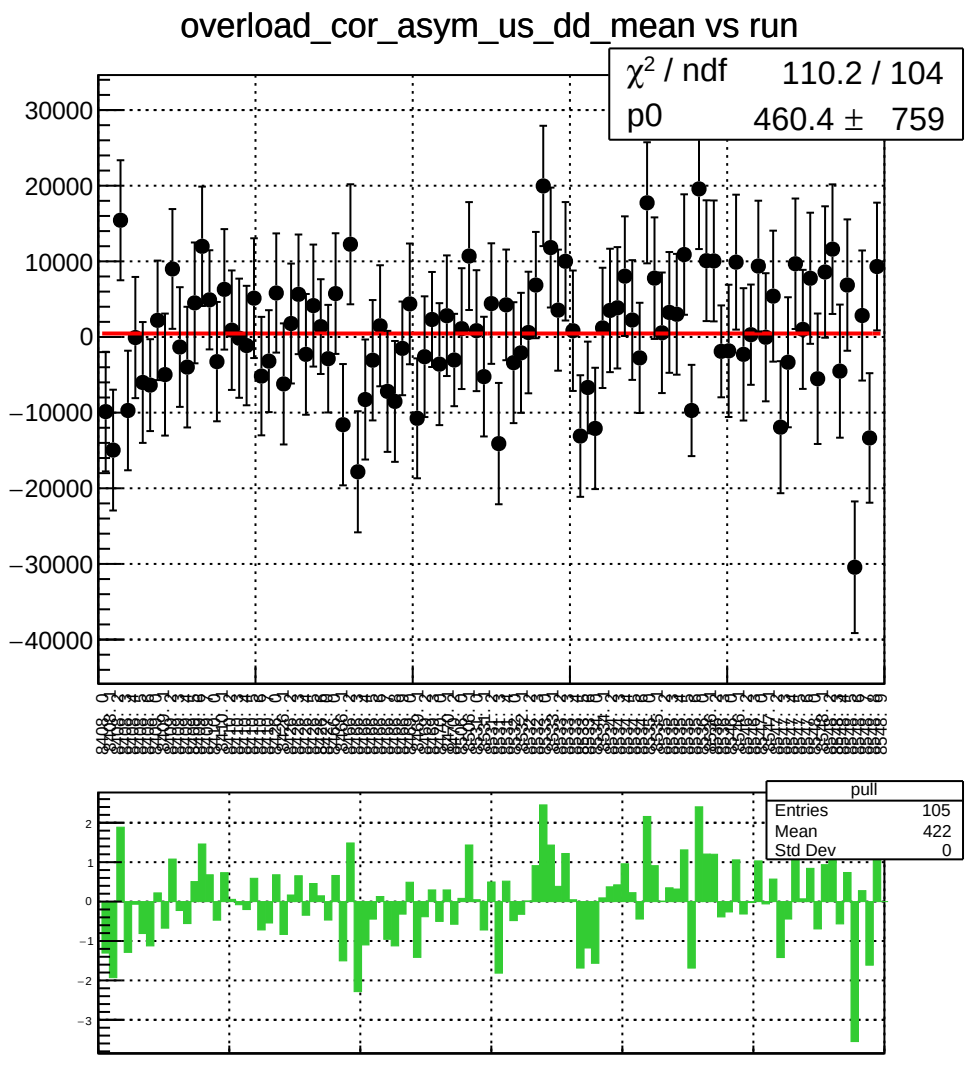

pull1D
Entries 105
Mean 0.01062
Std Dev 1.027
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

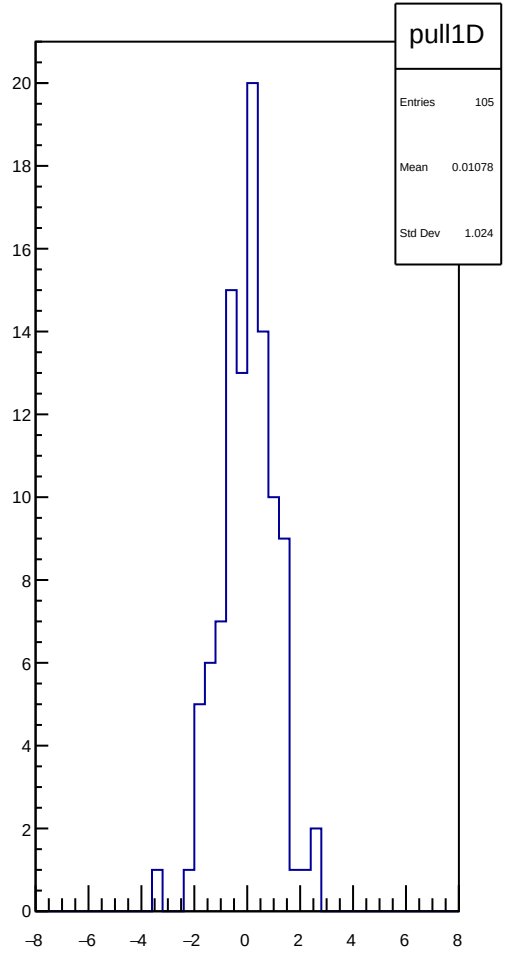

cor_asym_us_dd_rms vs run
χ² / ndf 2273 / 104
p0 767.9 ± 0.5371
860
840
820
800
780
760
740

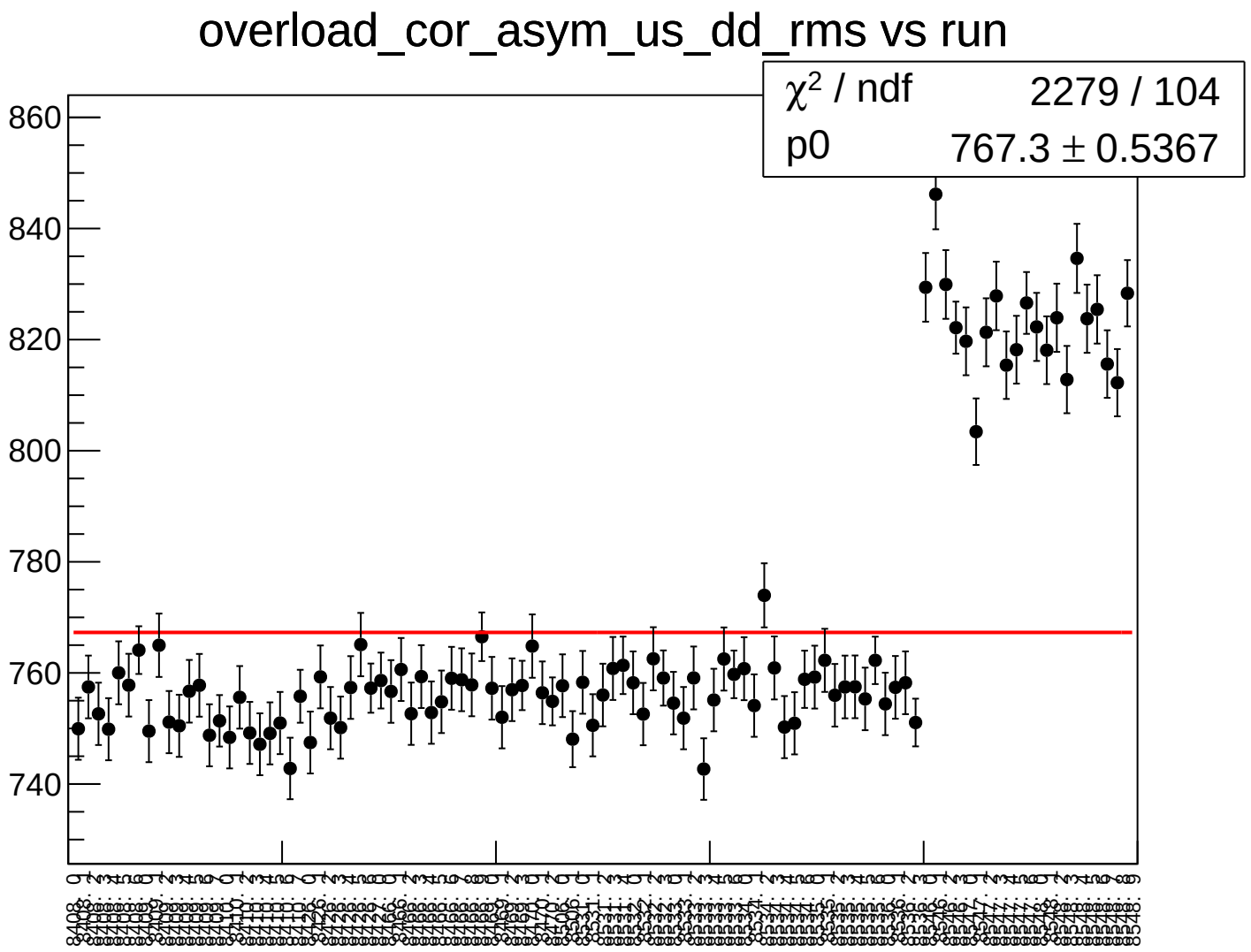

asym_us_dd_cor_correction_mean vs run
χ² / ndf 109.8 / 104
p0 −3945 ± 1215
40000
20000
0
−20000
−40000
pull
Entries 105
Mean −1142
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

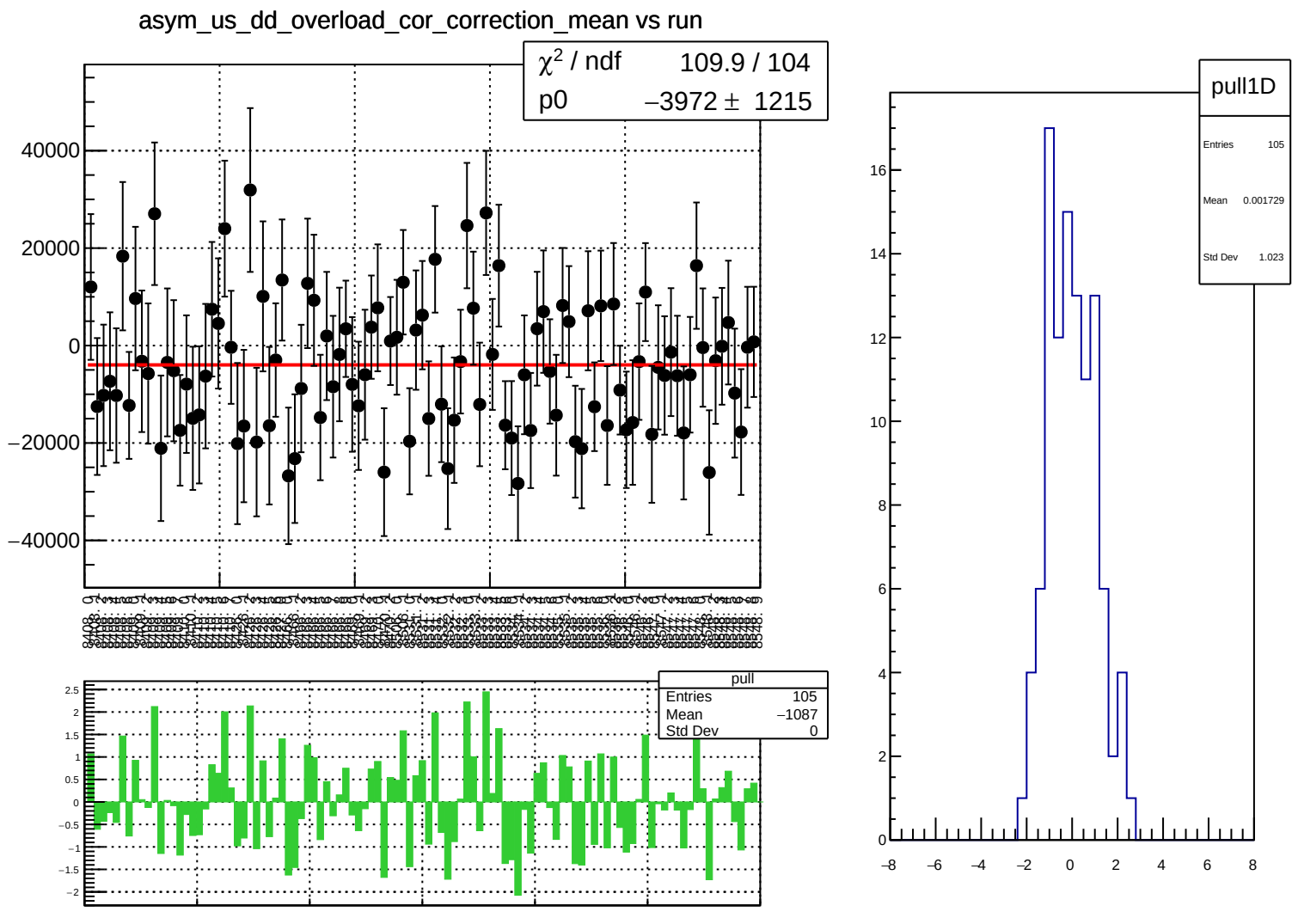

pull1D
Entries 105
Mean 0.001657
Std Dev 1.023
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

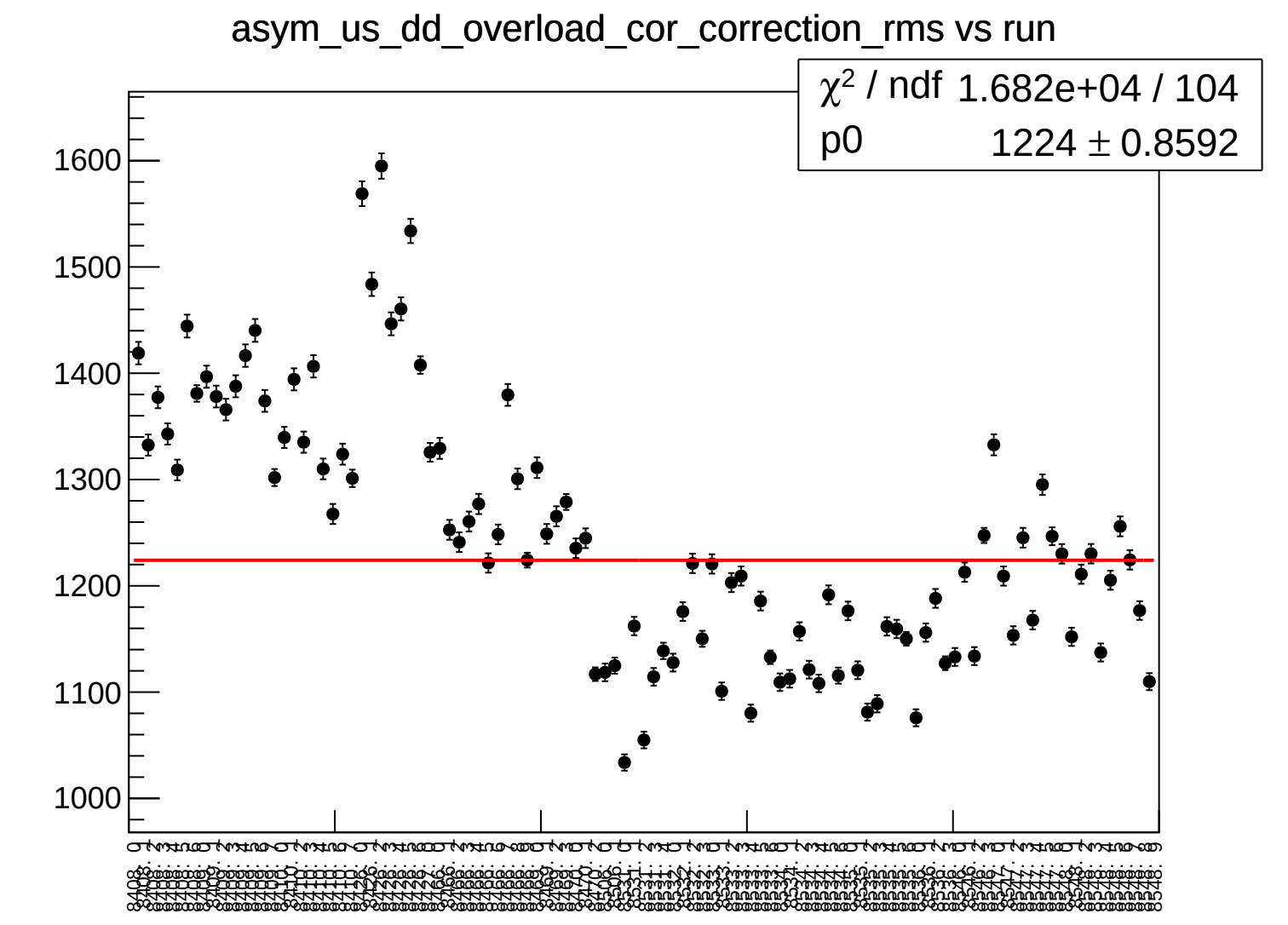

asym_us_dd_cor_correction_rms vs run
χ² / ndf 1.684e+04 / 104
p0 1224 ± 0.859
1600
1500
1400
1300
1200
1100
1000

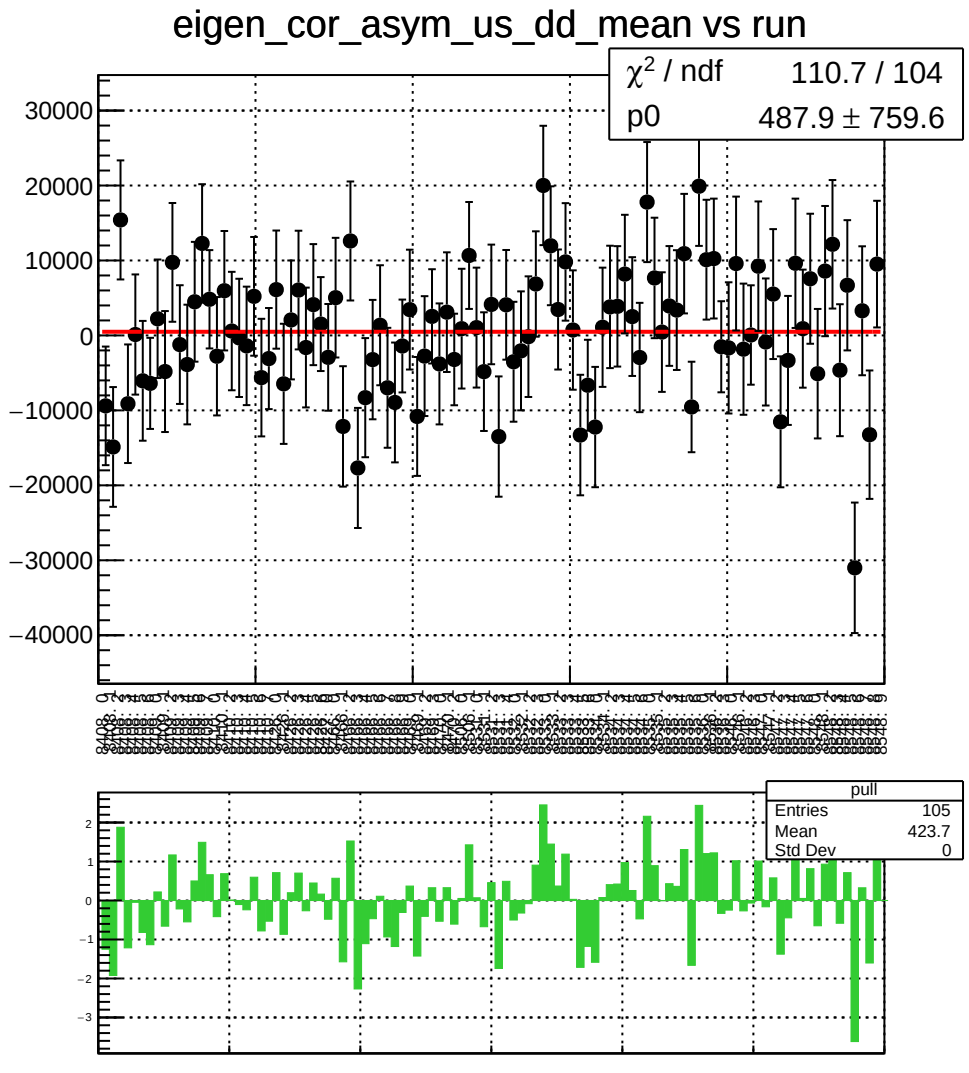

overload_cor_asym_us_dd_mean vs run
χ² / ndf 110.2 / 104
p0 460.4 ± 759
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 105
Mean 422
Std Dev 0
2
1
0
−1
−2
−3

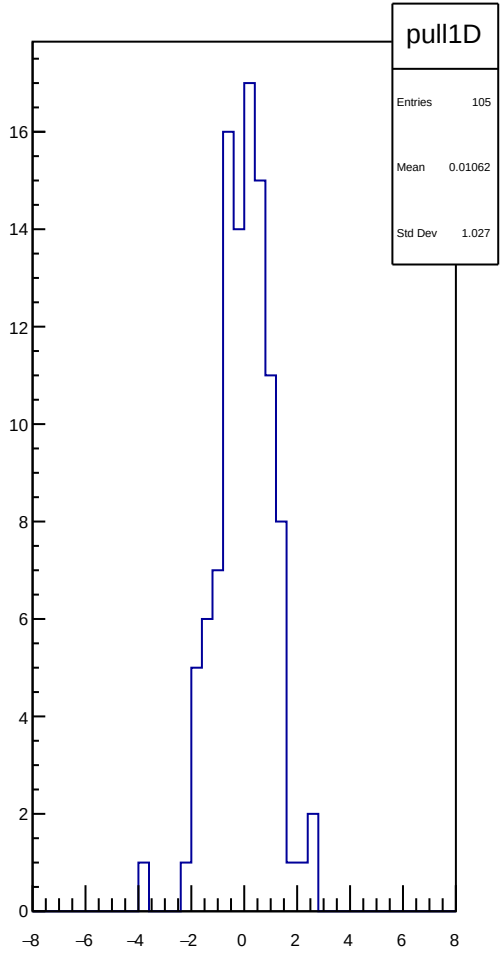

pull1D
Entries 105
Mean 0.01078
Std Dev 1.024
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


overload_cor_asym_us_dd_rms vs run
χ² / ndf 2279 / 104
p0 767.3 ± 0.5367
860
840
820
800
780
760
740


asym_us_dd_overload_cor_correction_mean vs run
χ² / ndf 109.9 / 104
p0 −3972 ± 1215
40000
20000
0
−20000
−40000
pull
Entries 105
Mean −1087
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 105
Mean 0.001729
Std Dev 1.023
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_dd_overload_cor_correction_rms vs run
χ^2 / ndf 1.682e+04 / 104
p0 1224 ± 0.8592
1600
1500
1400
1300
1200
1100
1000


eigen_cor_asym_us_dd_mean vs run
χ² / ndf 110.7 / 104
p0 487.9 ± 759.6
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 105
Mean 423.7
Std Dev 0
2
1
0
−1
−2
−3


pull1D
Entries 105
Mean 0.01062
Std Dev 1.027
16
14
12
10
8
6
4
2
0
−8
−6
−4
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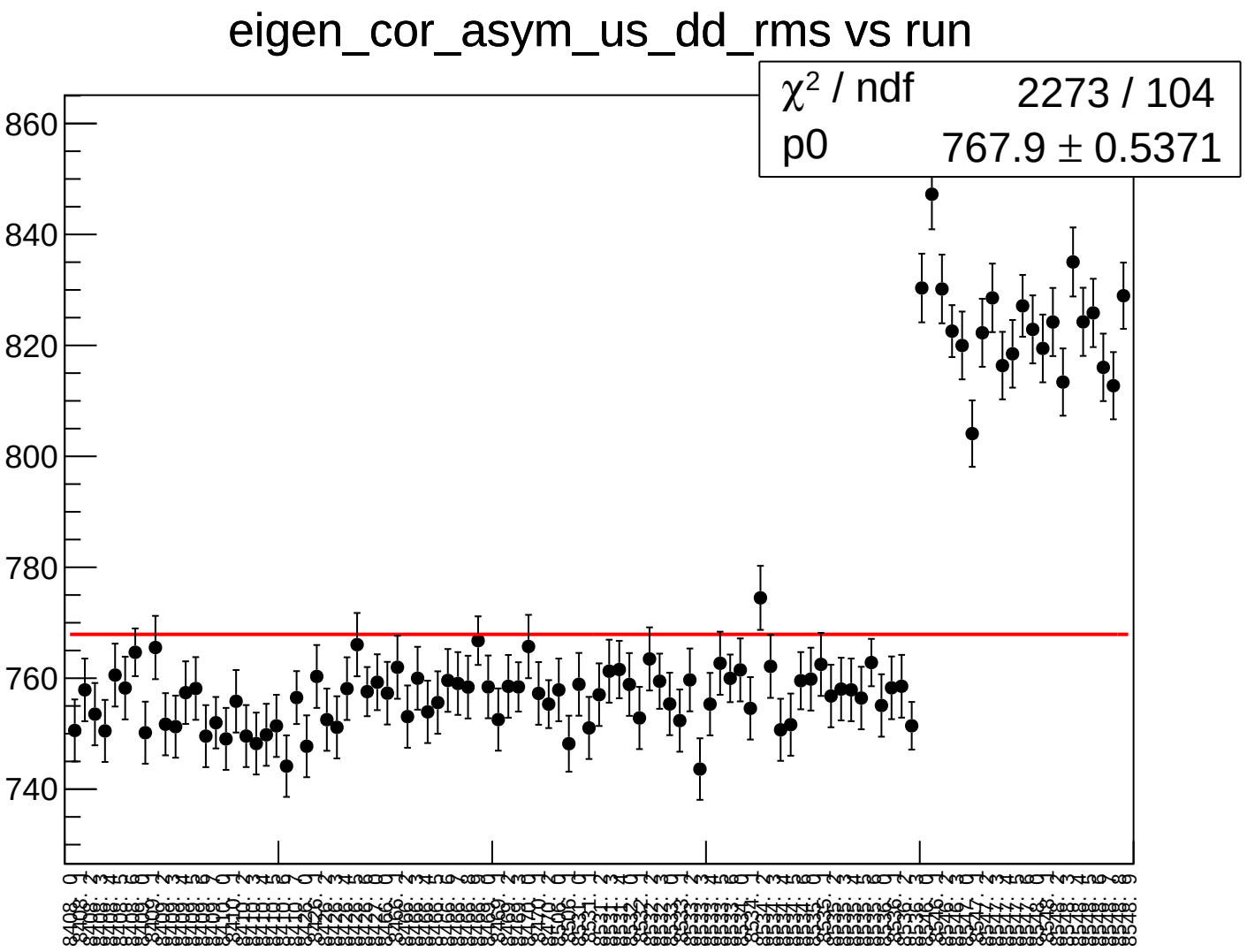
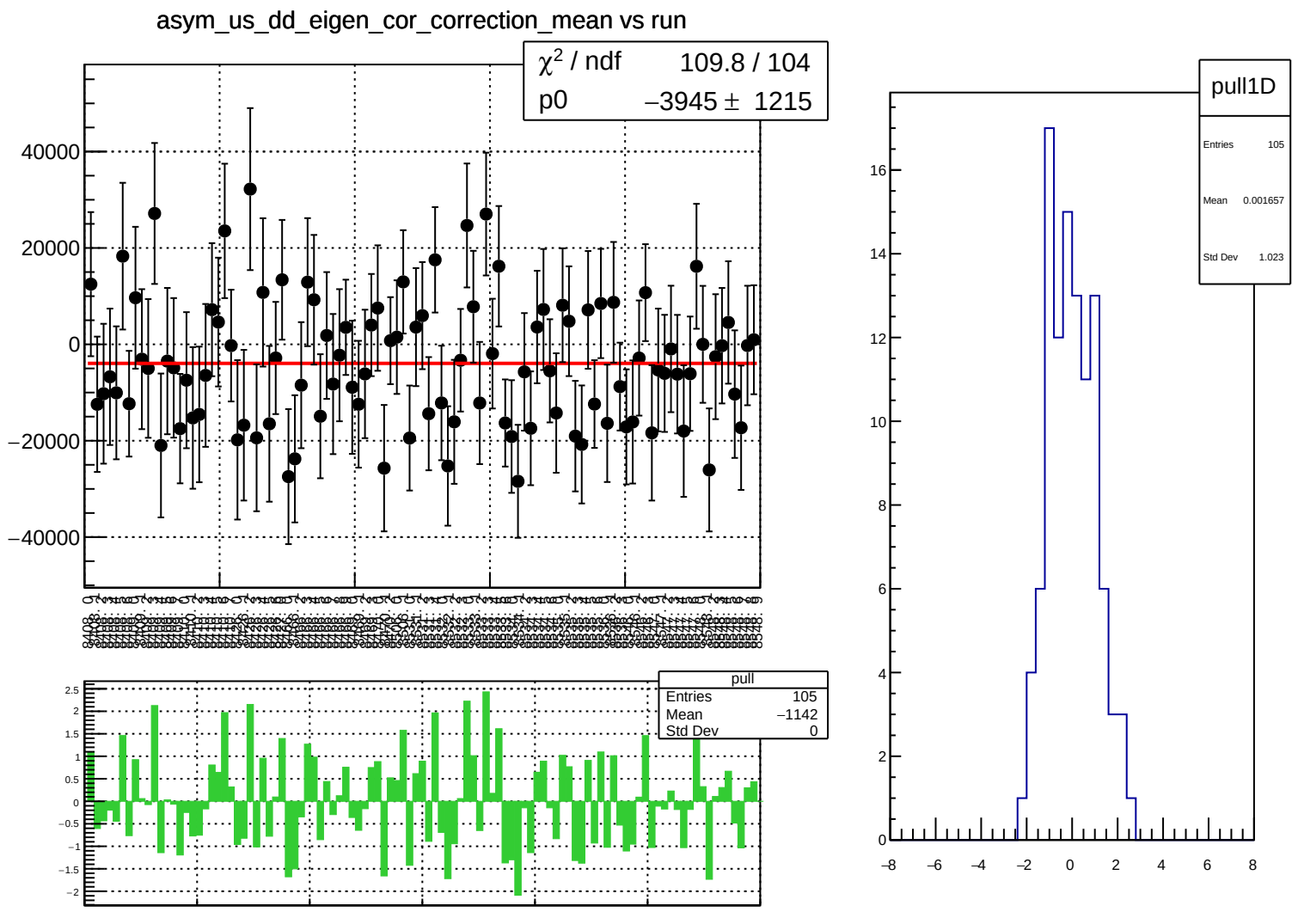
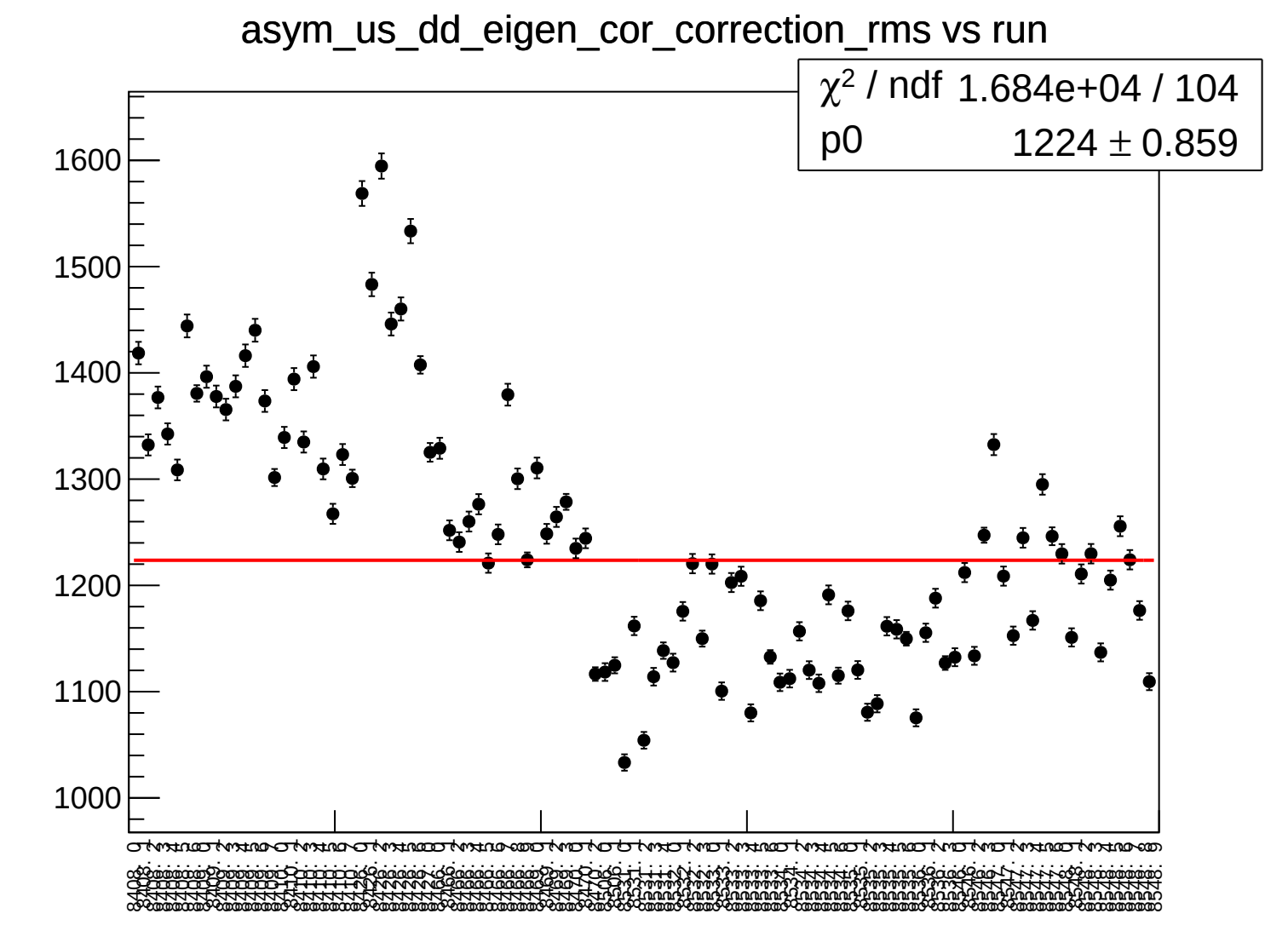
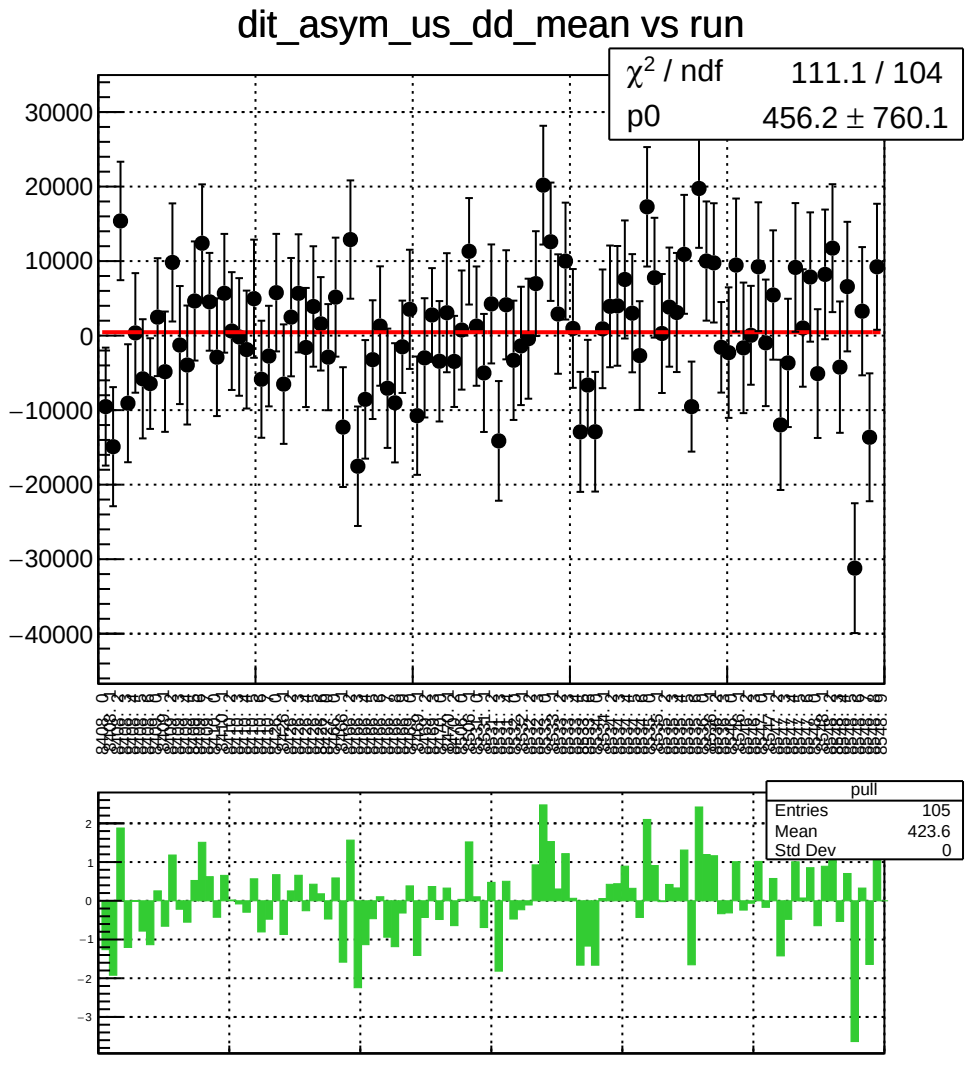
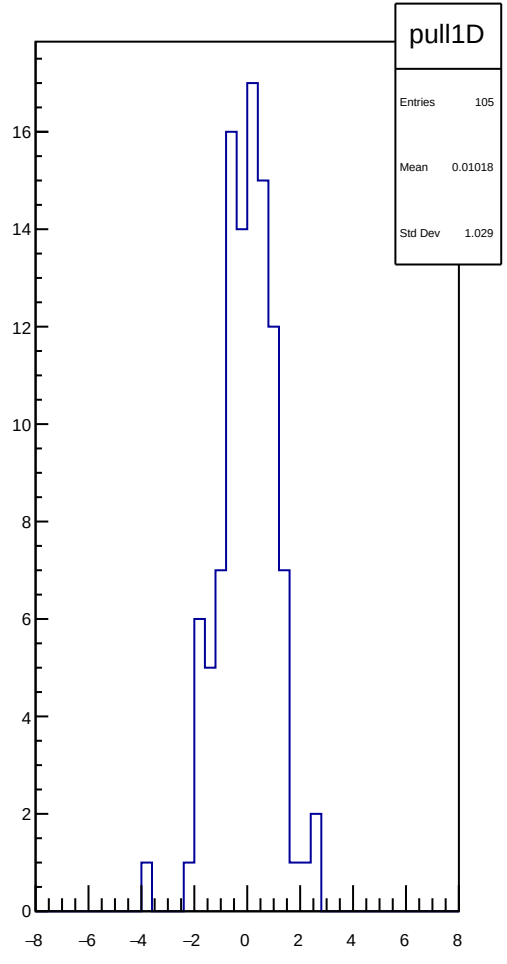
0
2
4
6
8

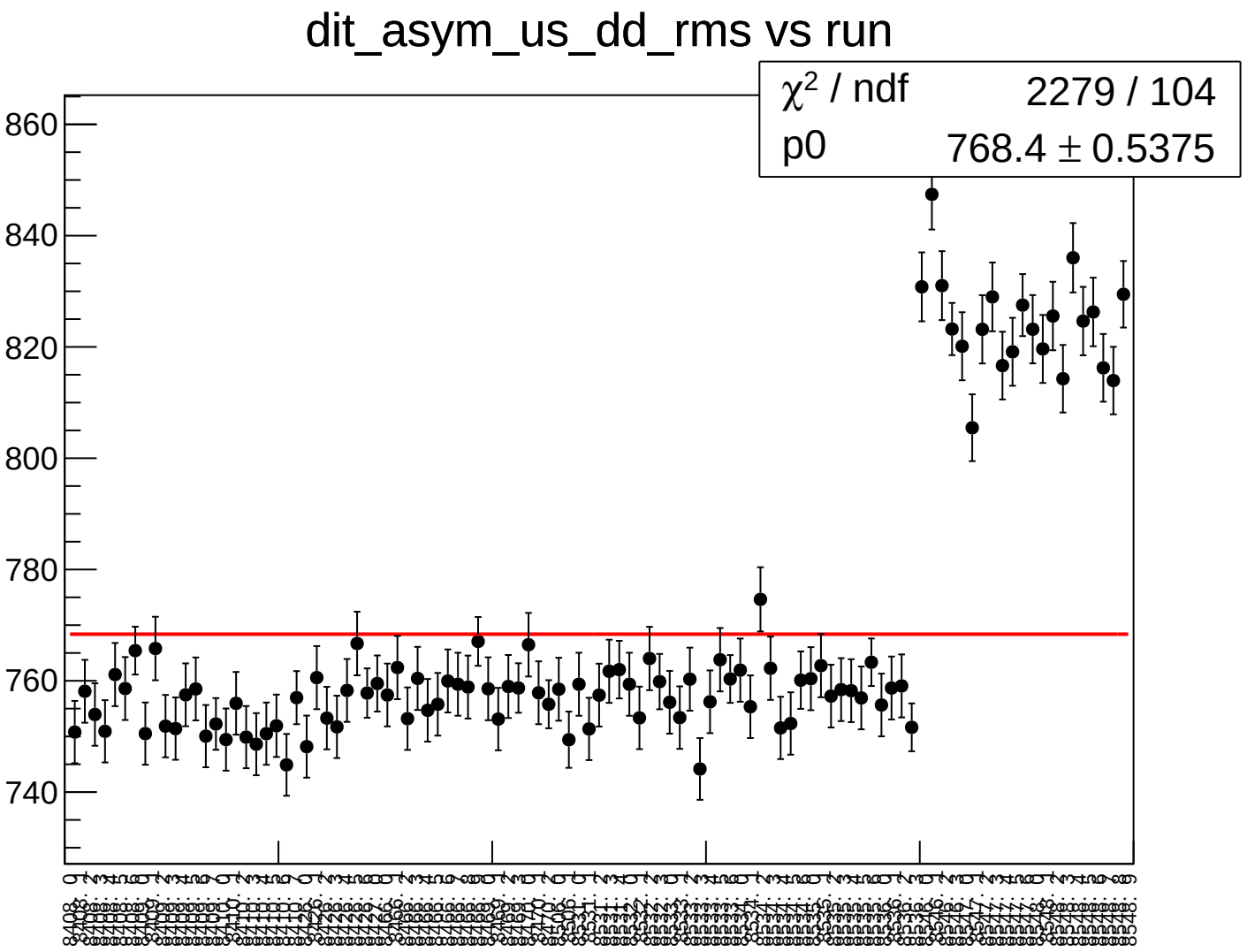

eigen_cor_asym_us_dd_rms vs run
χ² / ndf 2273 / 104
p0 767.9 ± 0.5371
860
840
820
800
780
760
740

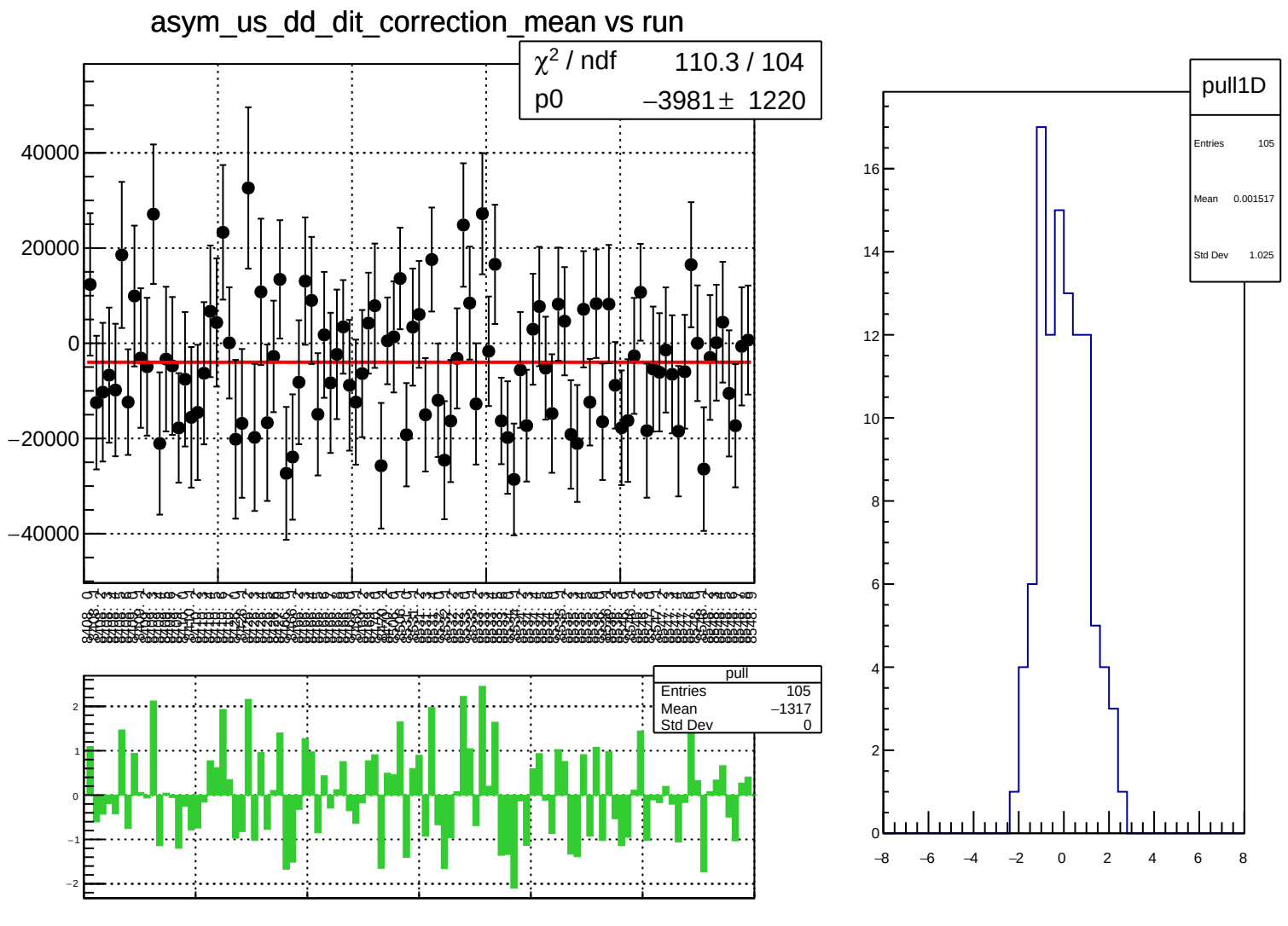

asym_us_dd_eigen_cor_correction_mean vs run
χ² / ndf 109.8 / 104
p0 −3945 ± 1215
40000
20000
0
−20000
−40000
pull
Entries 105
Mean −1142
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 105
Mean 0.001657
Std Dev 1.023
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

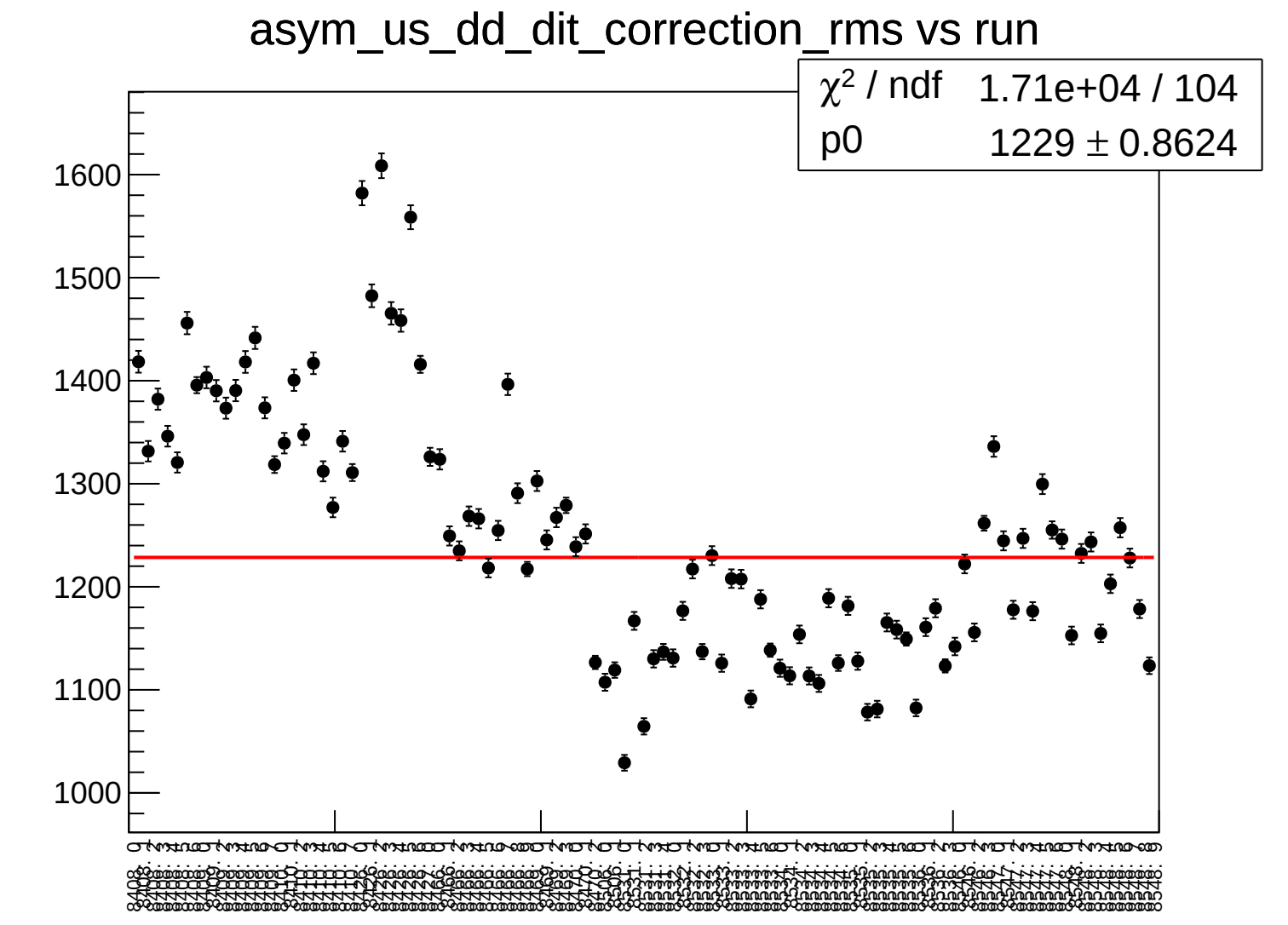

asym_us_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.684e+04 / 104
p0 1224 ± 0.859
1600
1500
1400
1300
1200
1100
1000

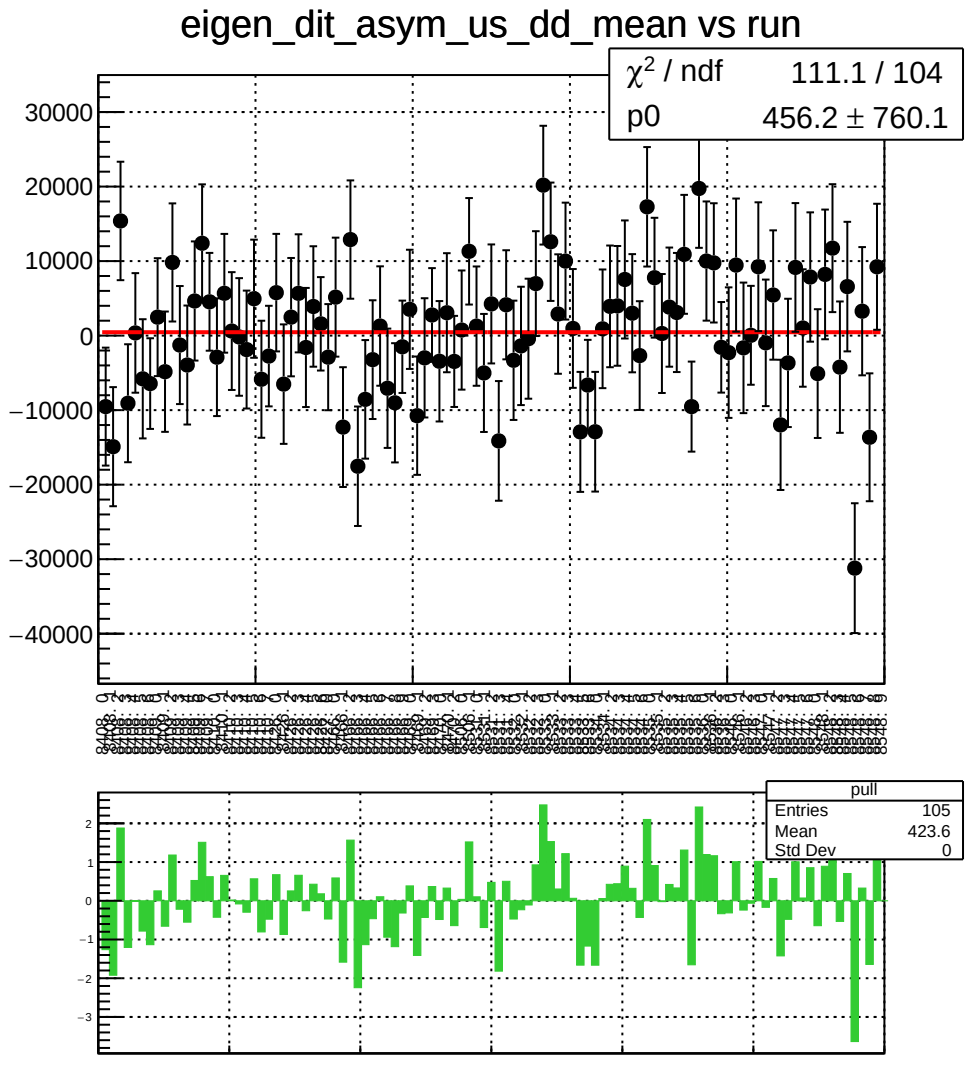

dit_asym_us_dd_mean vs run
χ² / ndf 111.1 / 104
p0 456.2 ± 760.1
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 105
Mean 423.6
Std Dev 0
2
1
0
−1
−2
−3

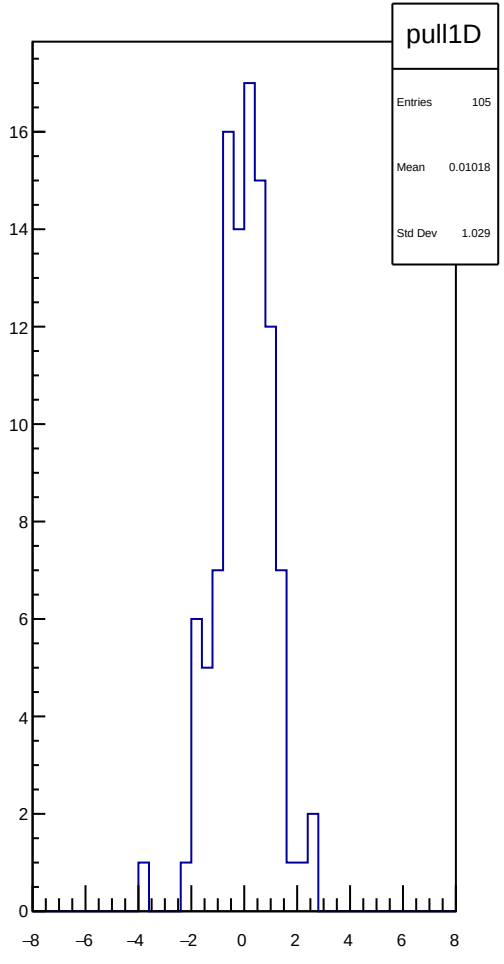

pull1D
Entries 105
Mean 0.01018
Std Dev 1.029
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

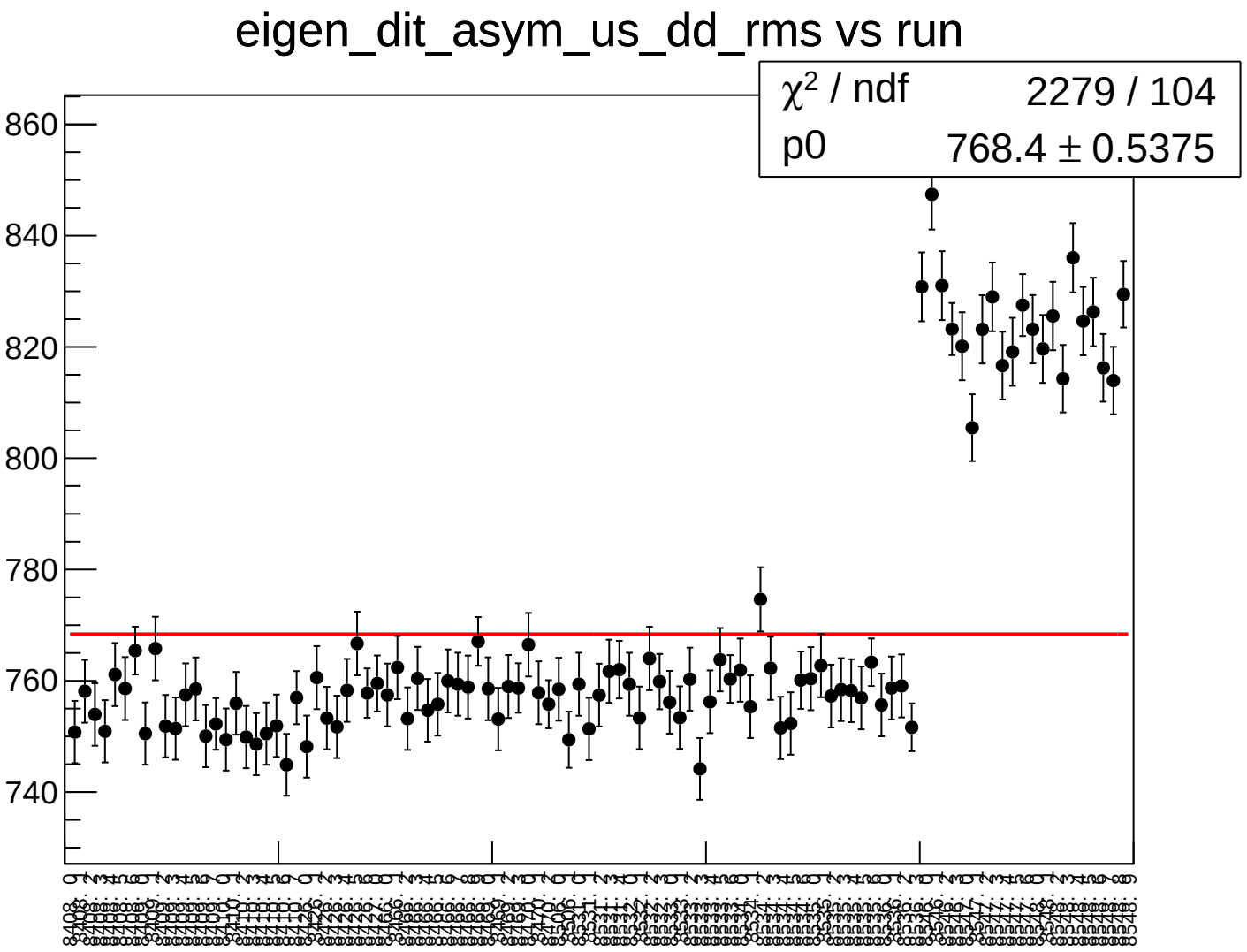

dit_asym_us_dd_rms vs run
χ² / ndf 2279 / 104
p0 768.4 ± 0.5375
860
840
820
800
780
760
740

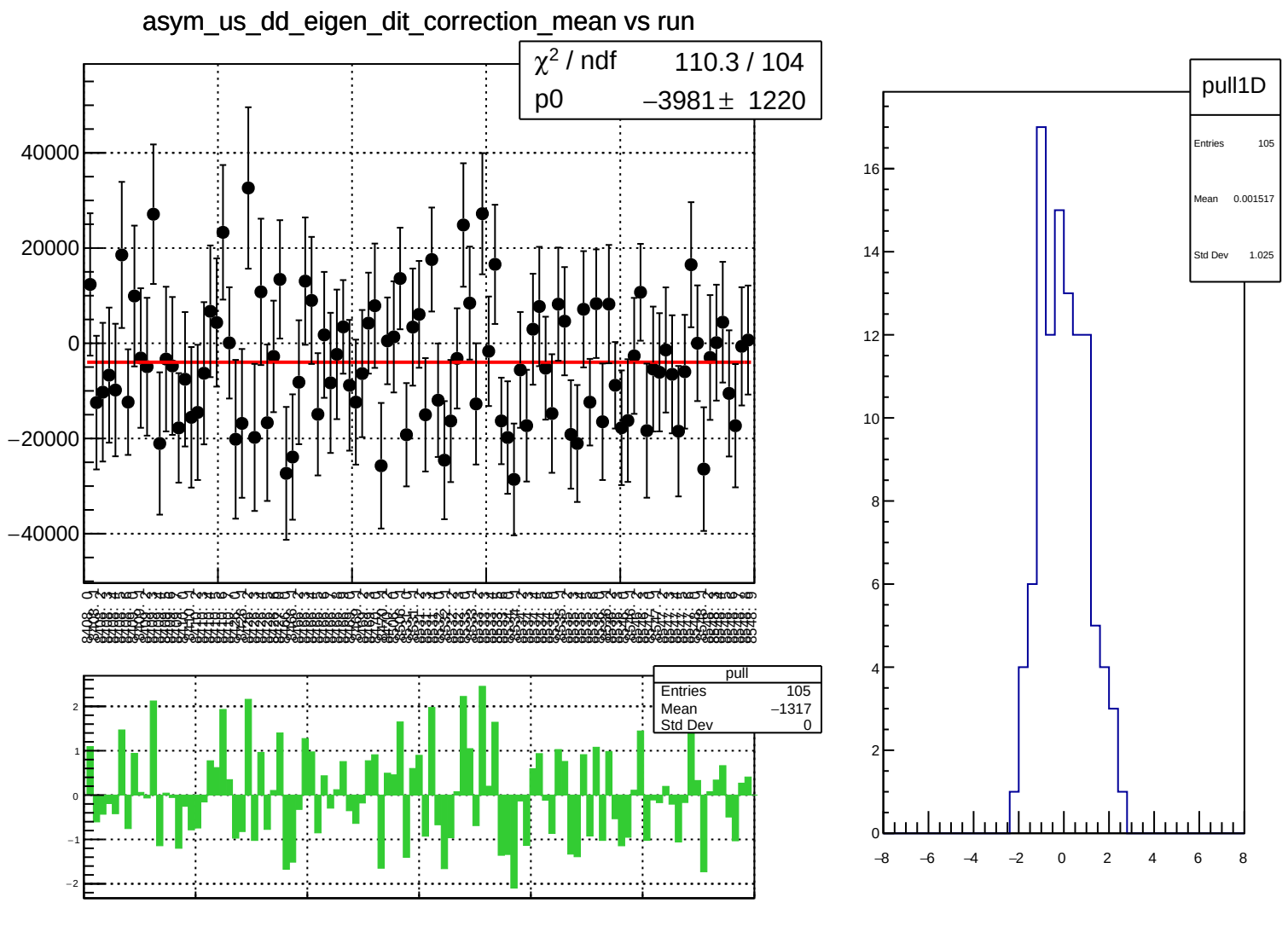

asym_us_dd_dit_correction_mean vs run
χ² / ndf 110.3 / 104
p0 −3981 ± 1220
40000
20000
0
−20000
−40000
pull
Entries 105
Mean −1317
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.001517
Std Dev 1.025
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

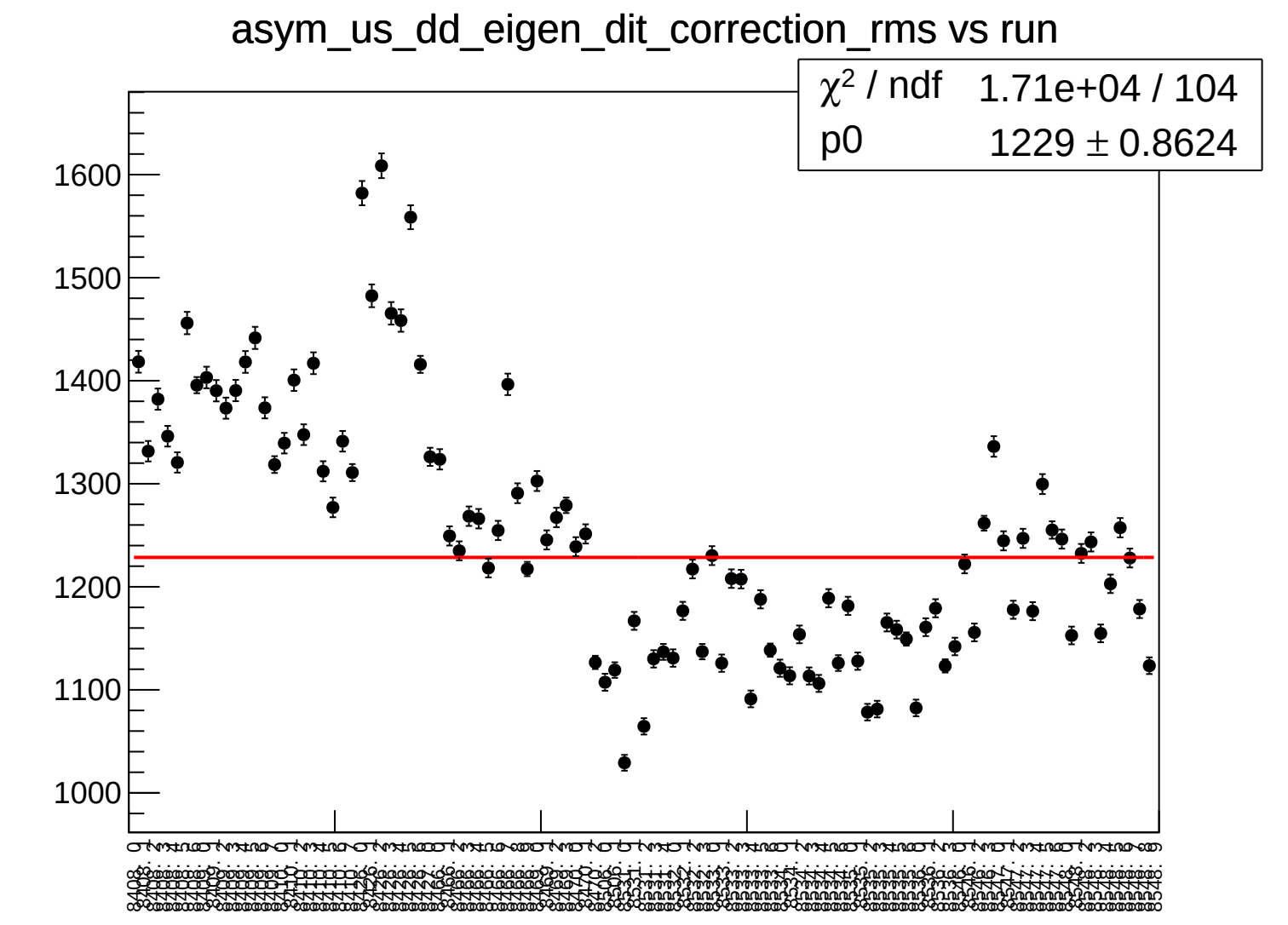

asym_us_dd_dit_correction_rms vs run
χ² / ndf 1.71e+04 / 104
p0 1229 ± 0.8624
1600
1500
1400
1300
1200
1100
1000

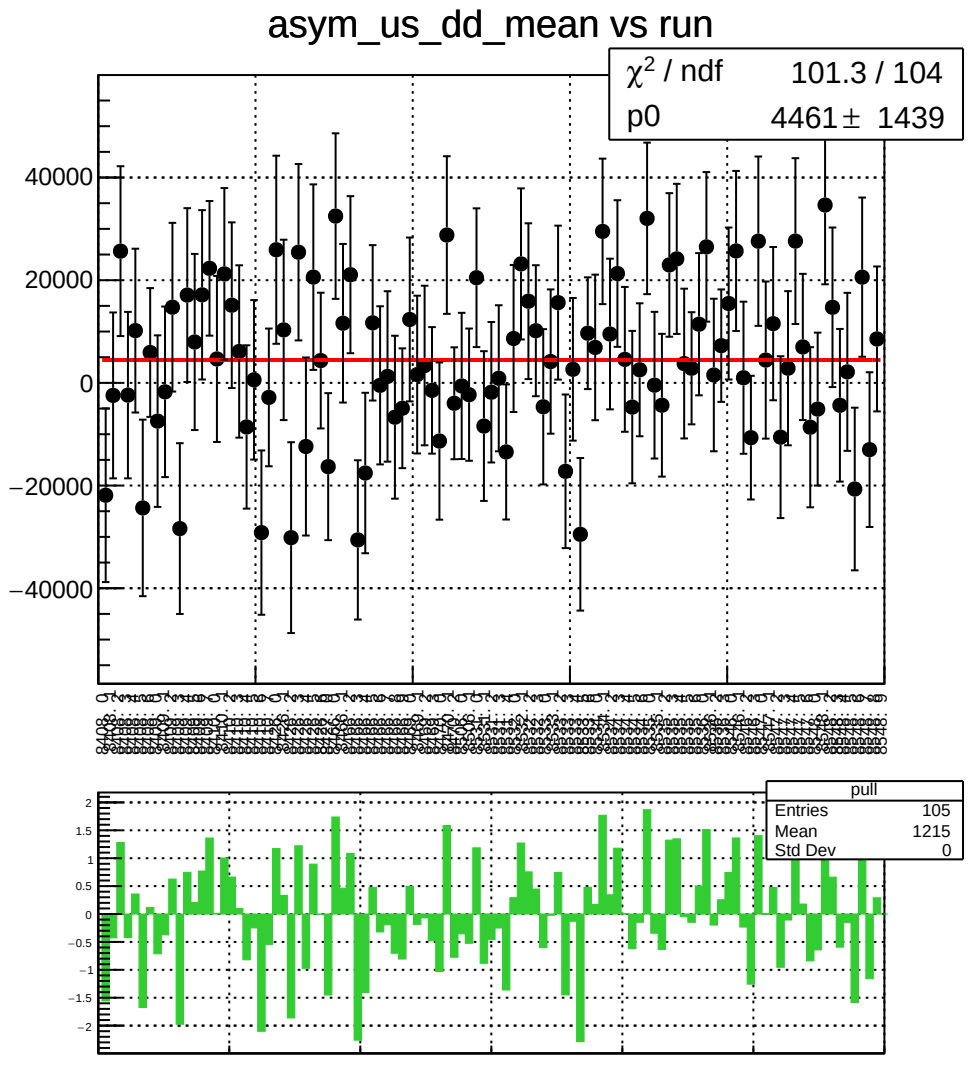

eigen_dit_asym_us_dd_mean vs run
χ² / ndf 111.1 / 104
p0 456.2 ± 760.1
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 105
Mean 423.6
Std Dev 0
2
1
0
−1
−2
−3

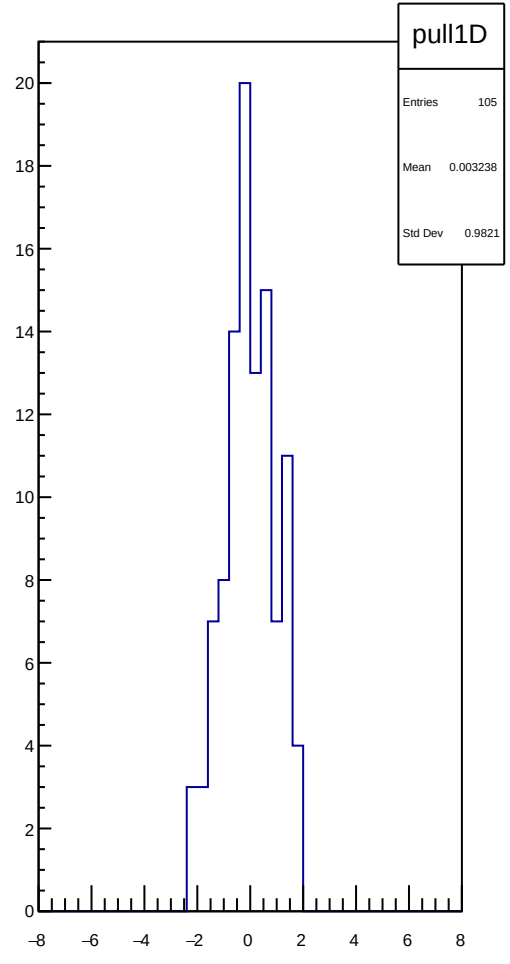

pull1D
Entries 105
Mean 0.01018
Std Dev 1.029
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

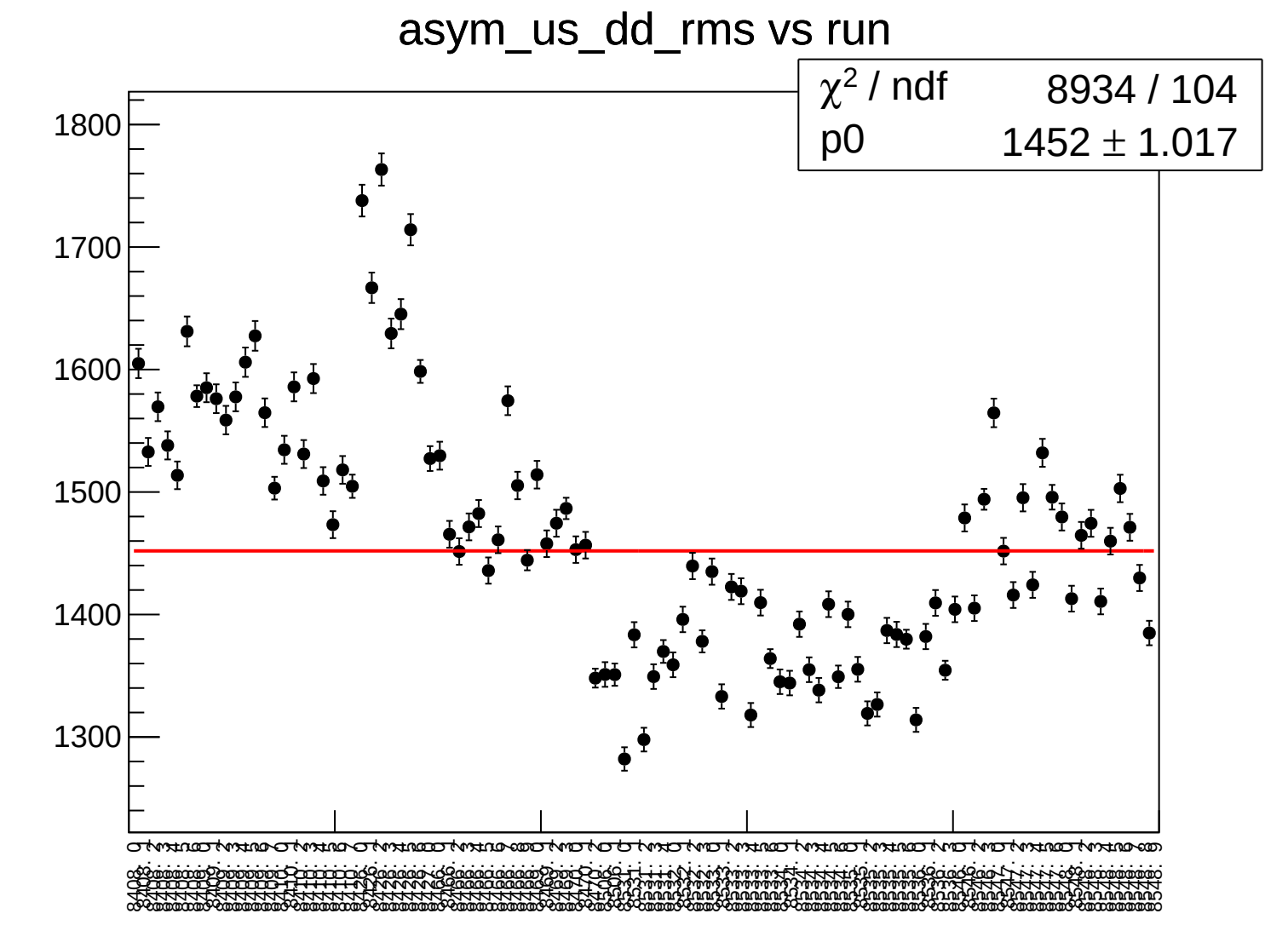

eigen_dit_asym_us_dd_rms vs run
χ² / ndf 2279 / 104
p0 768.4 ± 0.5375
860
840
820
800
780
760
740

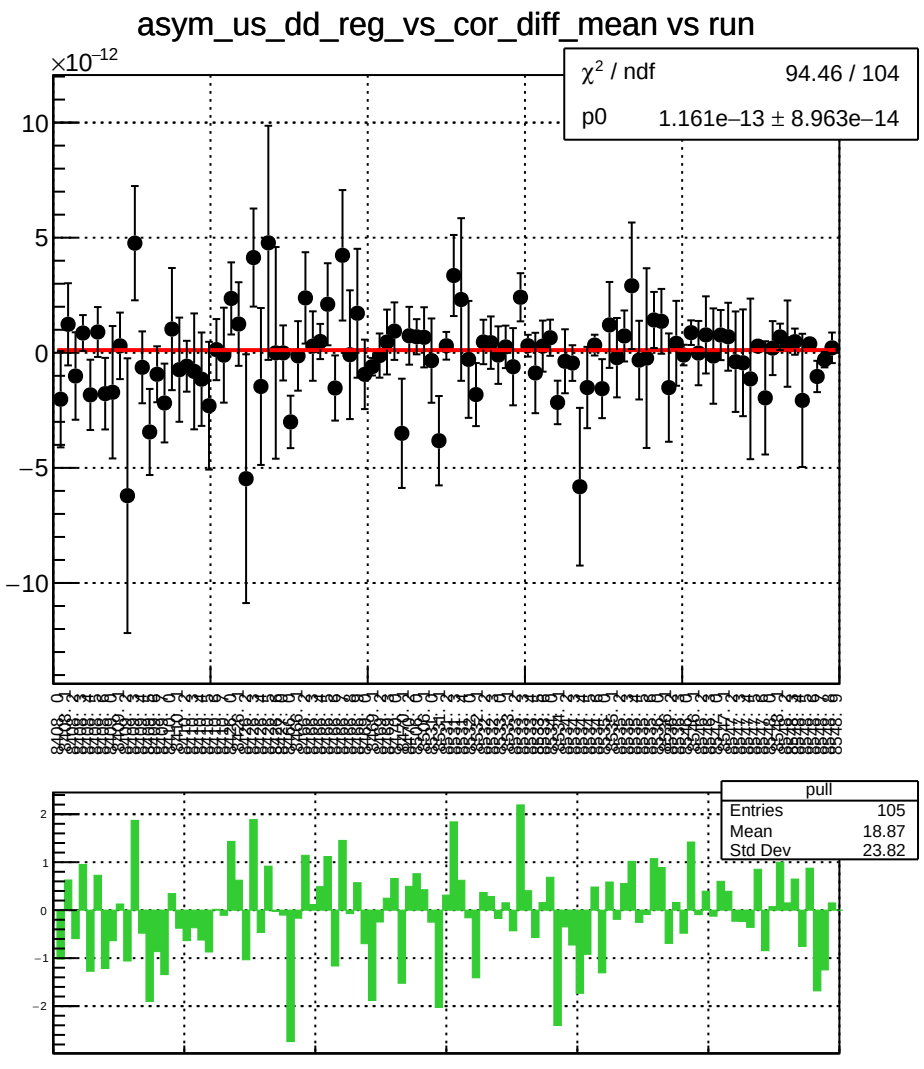

asym_us_dd_eigen_dit_correction_mean vs run
χ² / ndf 110.3 / 104
p0 −3981 ± 1220
40000
20000
0
−20000
−40000
pull
Entries 105
Mean −1317
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.001517
Std Dev 1.025
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

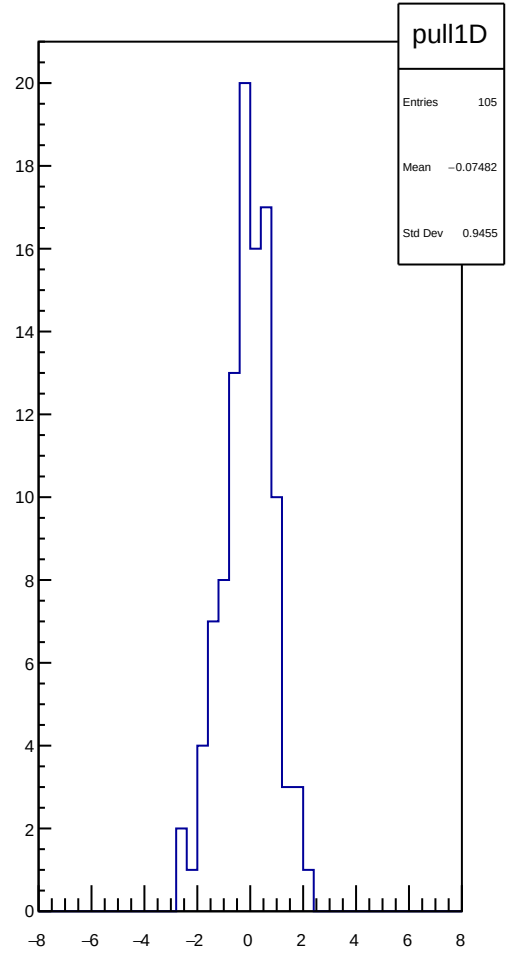

asym_us_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.71e+04 / 104
p0 1229 ± 0.8624
1600
1500
1400
1300
1200
1100
1000

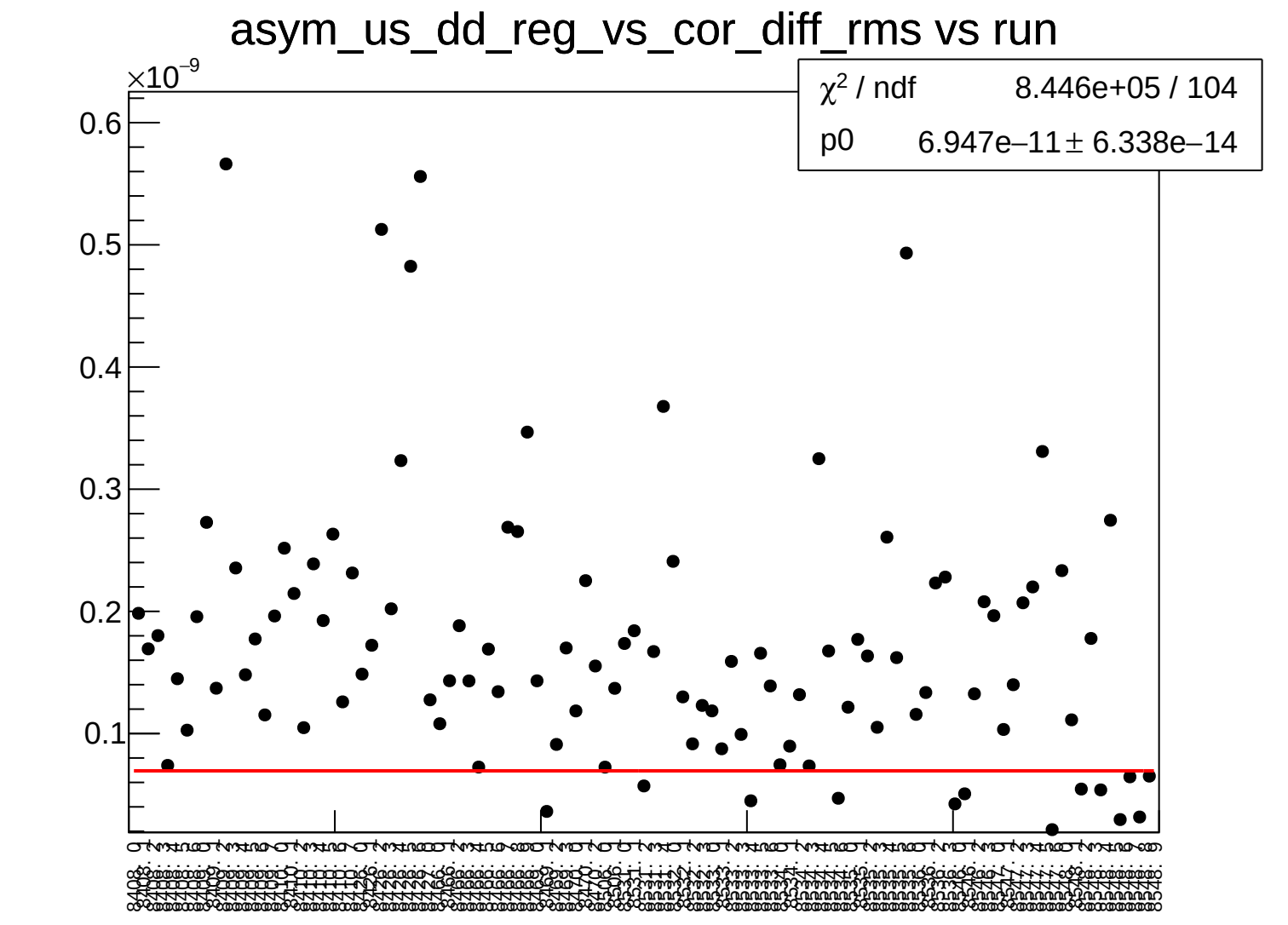

asym_us_dd_mean vs run
χ² / ndf 101.3 / 104
p0 4461 ± 1439
40000
20000
0
−20000
−40000
pull
Entries 105
Mean 1215
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

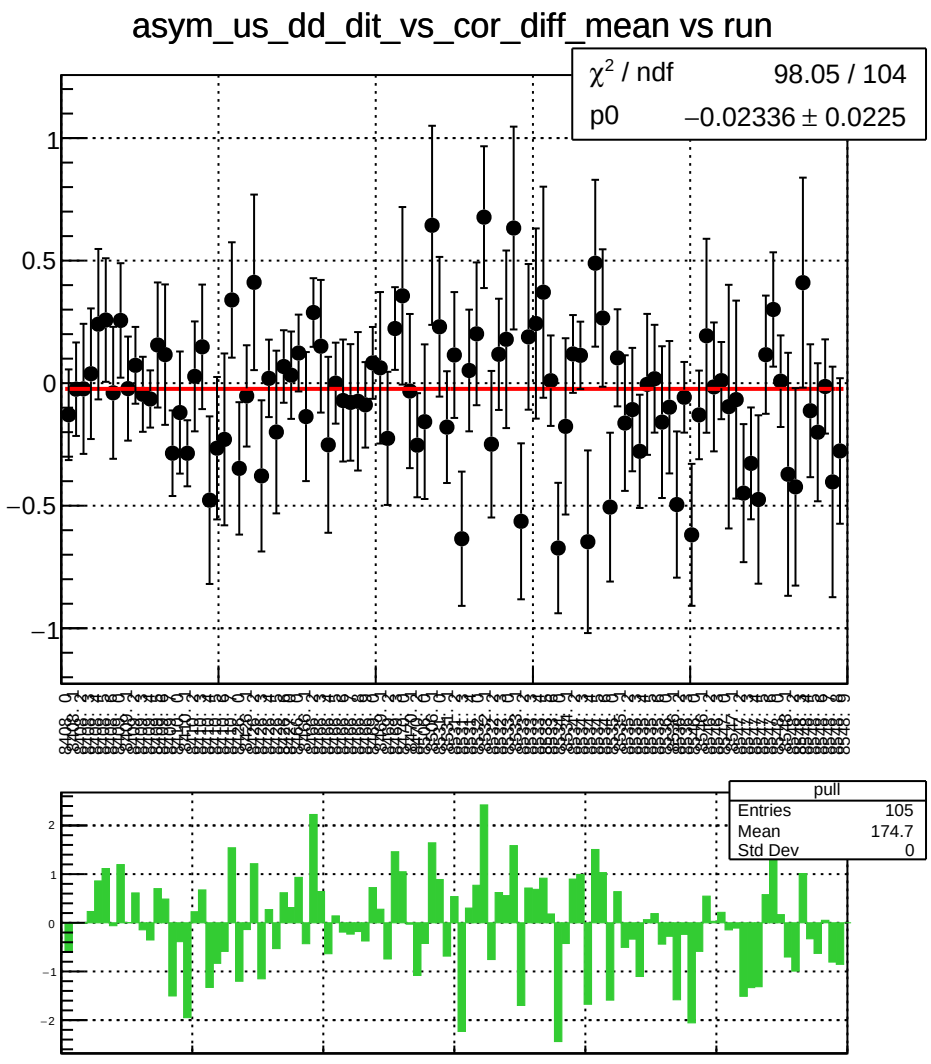

pull1D
Entries 105
Mean 0.003238
Std Dev 0.9821
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

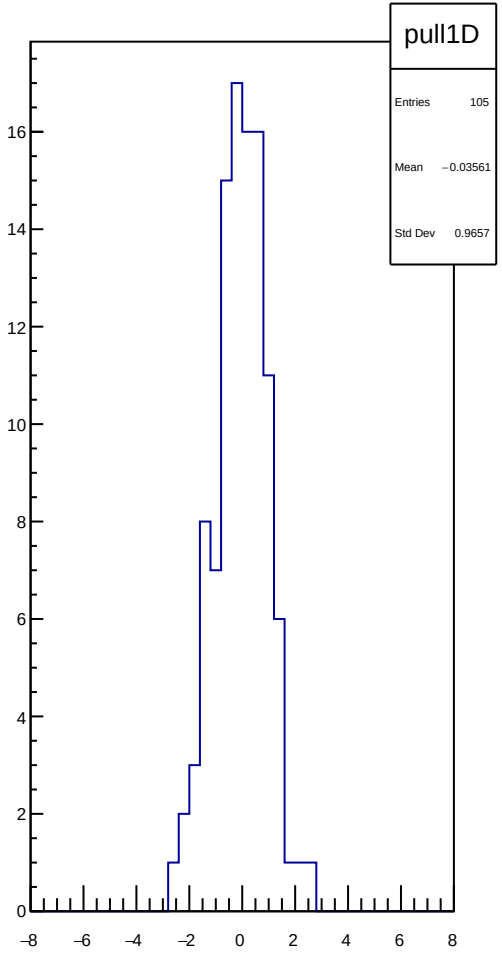

asym_us_dd_rms vs run
χ^2 / ndf 8934 / 104
p0 1452 ± 1.017
1800
1700
1600
1500
1400
1300

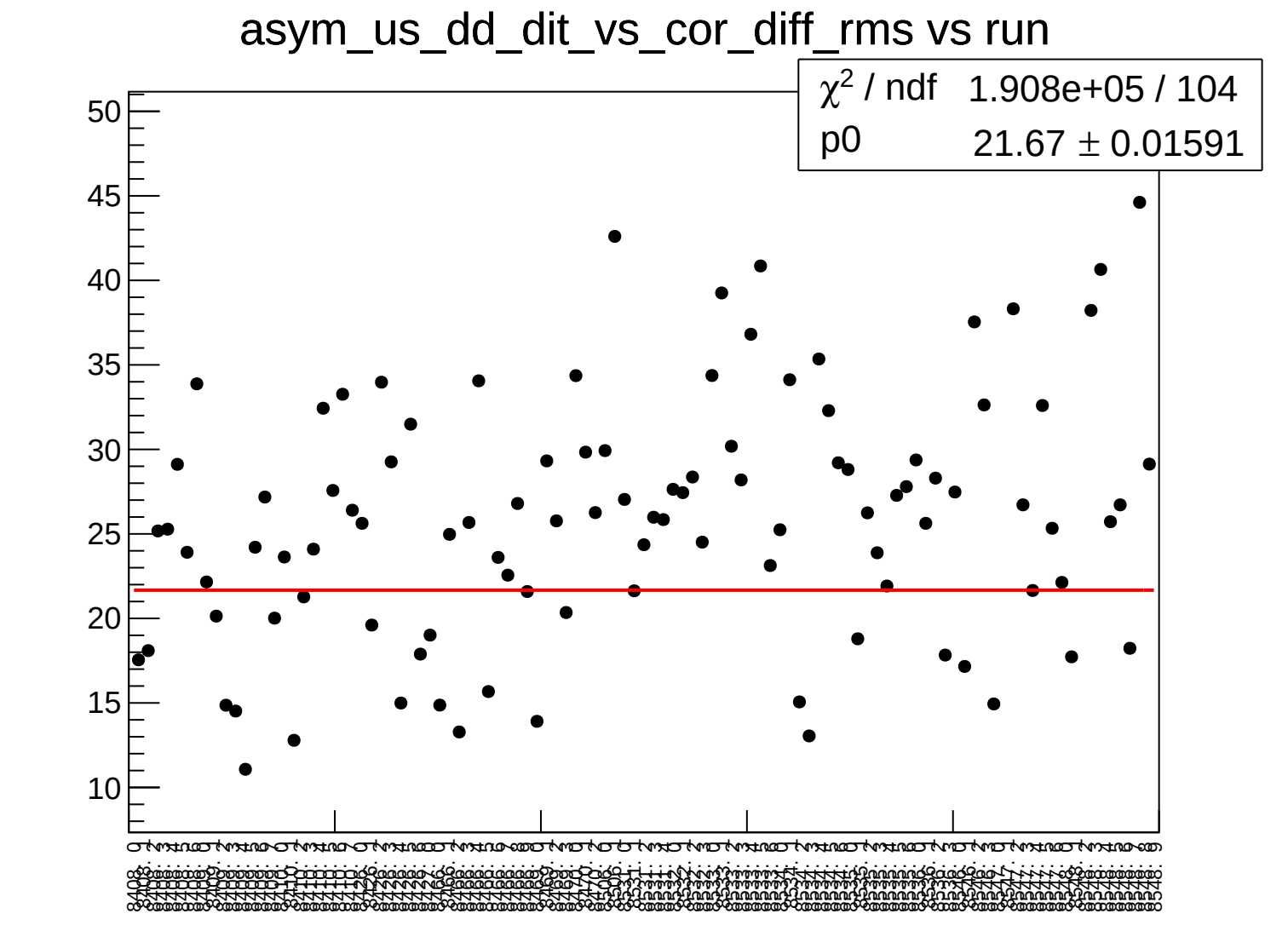

asym_us_dd_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.46 / 104
p0 1.161e−13 ± 8.963e−14
10
5
0
−5
−10
pull
Entries 105
Mean 18.87
Std Dev 23.82
2
1
0
−1
−2

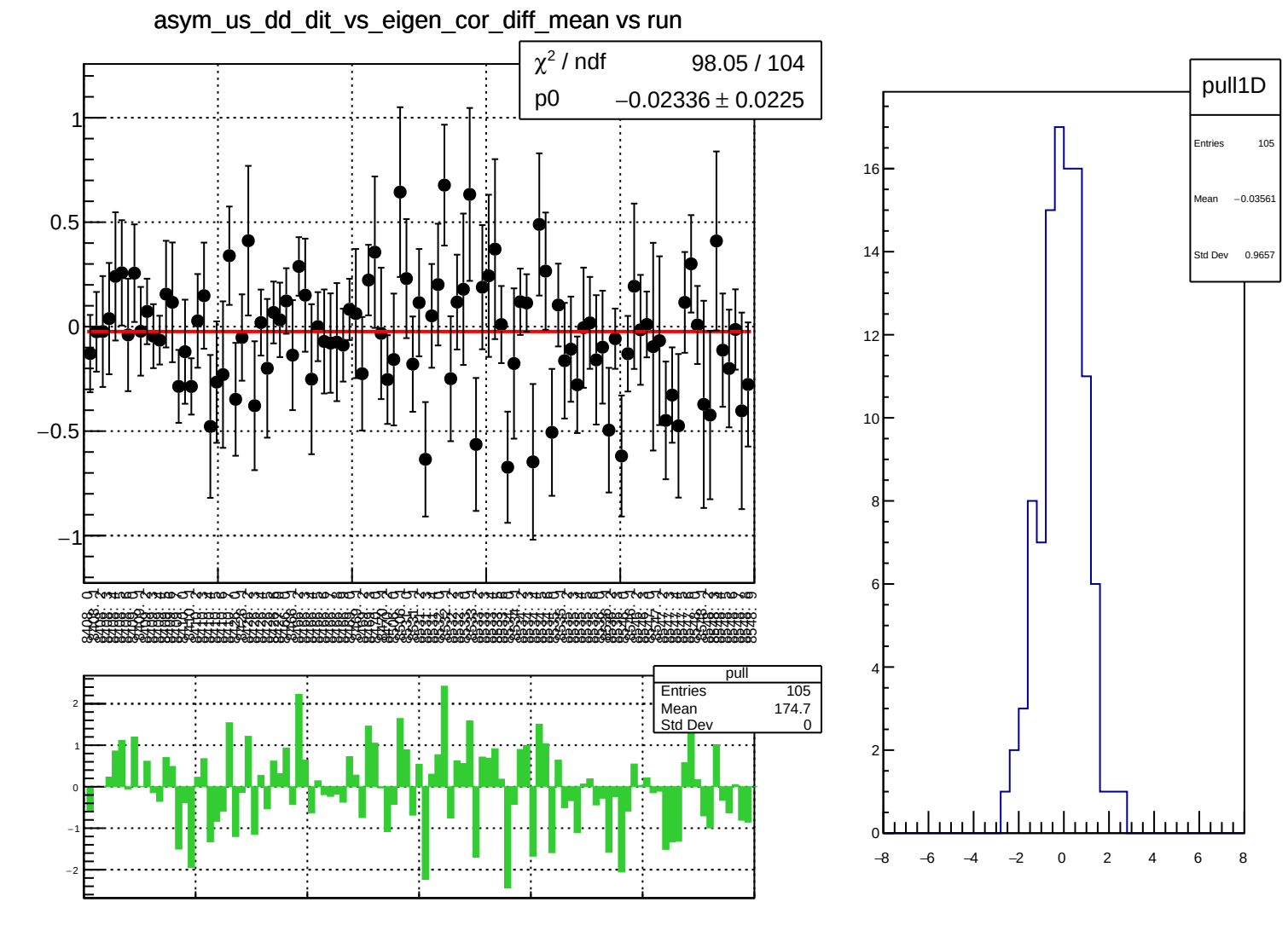

pull1D
Entries 105
Mean −0.07482
Std Dev 0.9455
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

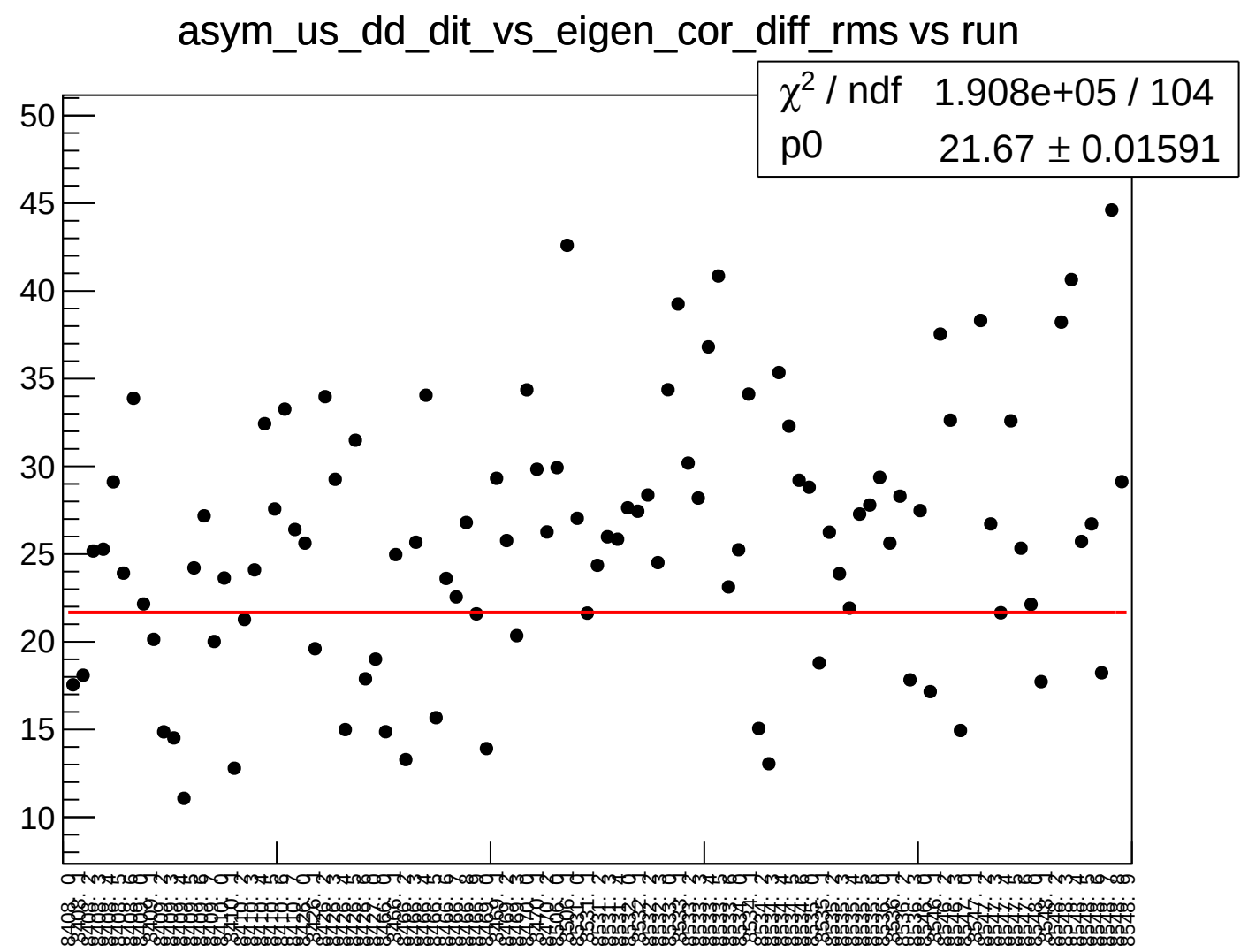

asym_us_dd_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.446e+05 / 104
p0 6.947e−11 ± 6.338e−14
0.6
0.5
0.4
0.3
0.2
0.1

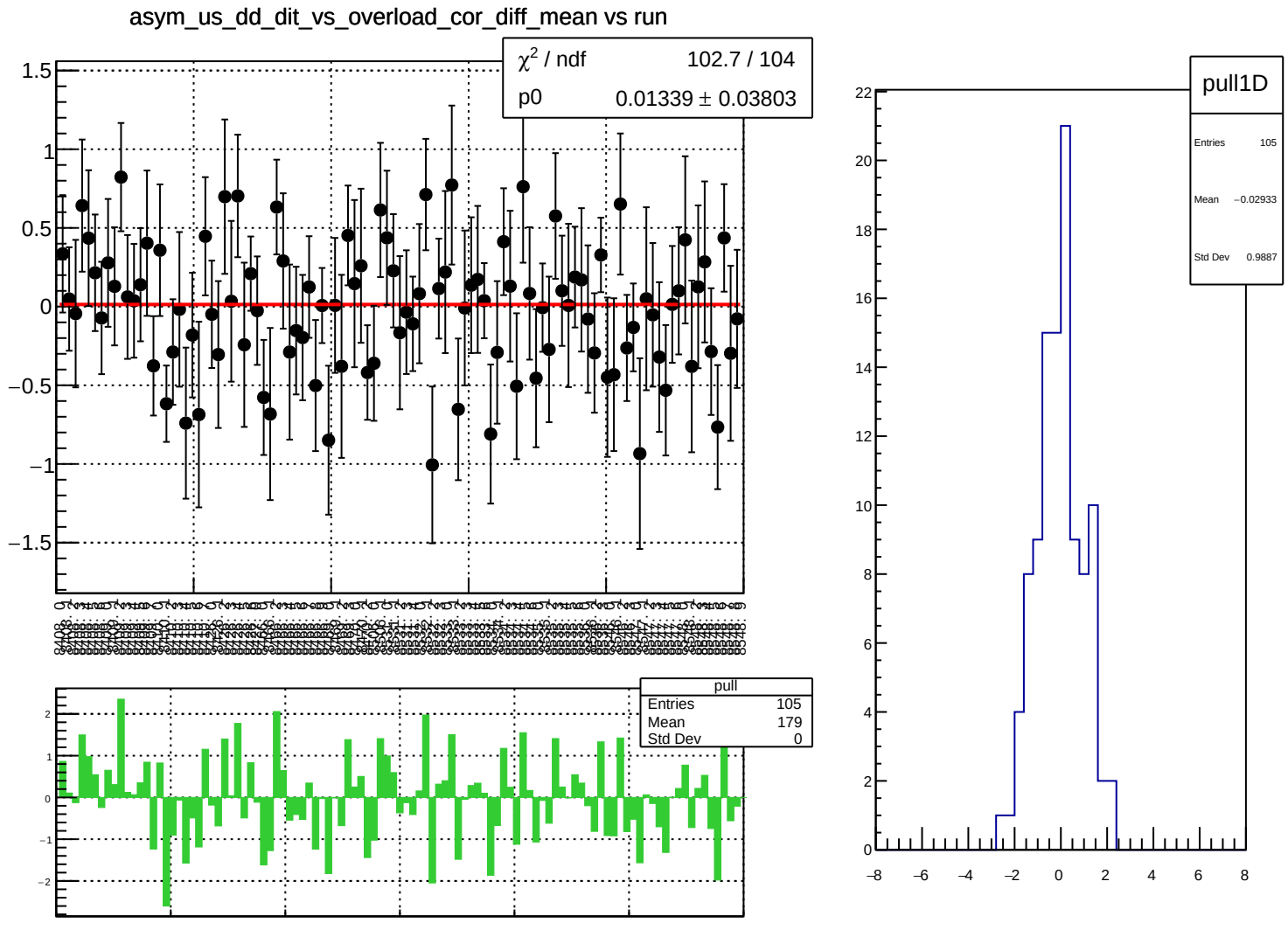

asym_us_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 98.05 / 104
p0 −0.02336 ± 0.0225
pull
Entries 105
Mean 174.7
Std Dev 0

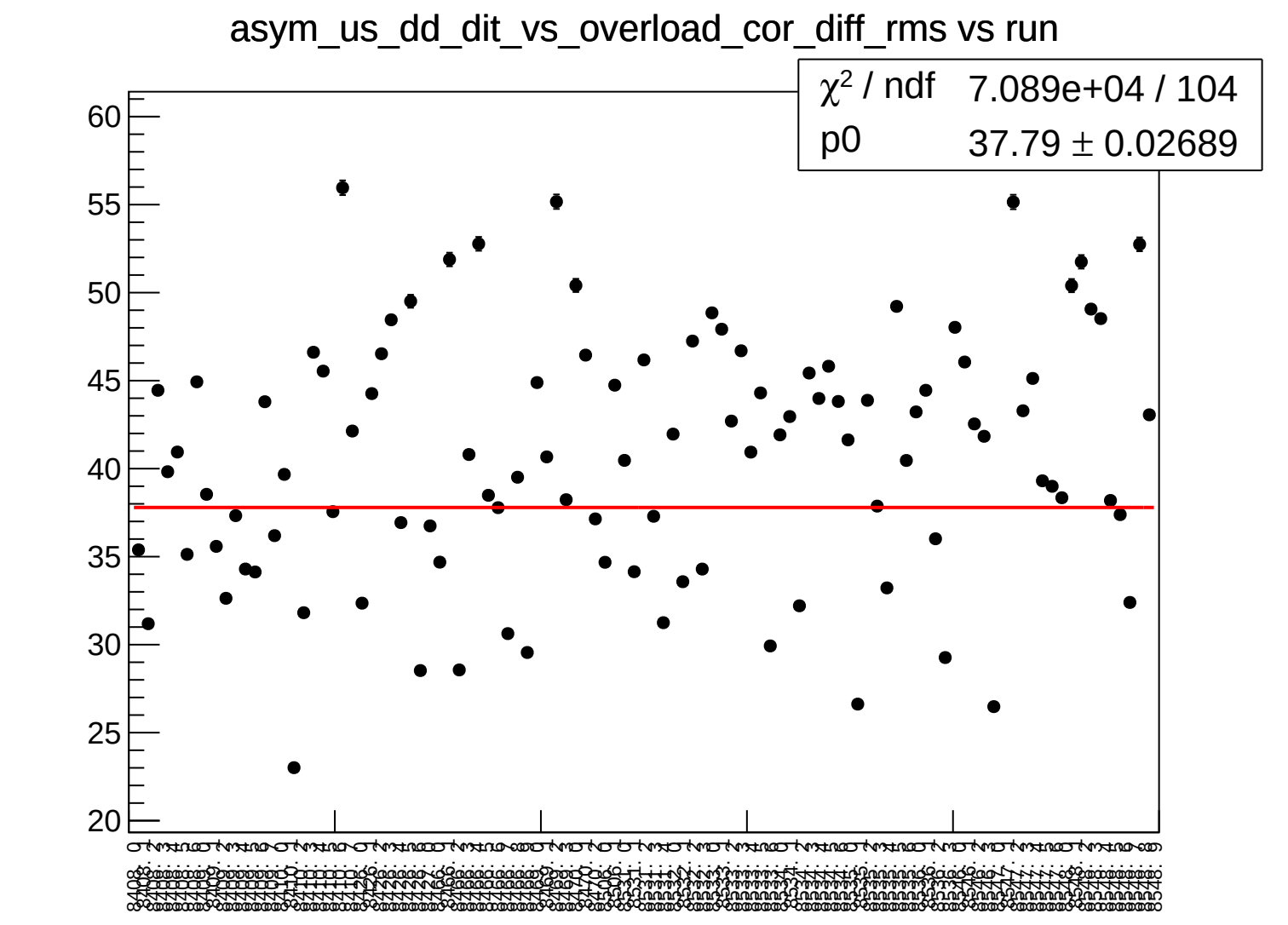

pull1D
Entries 105
Mean −0.03561
Std Dev 0.9657

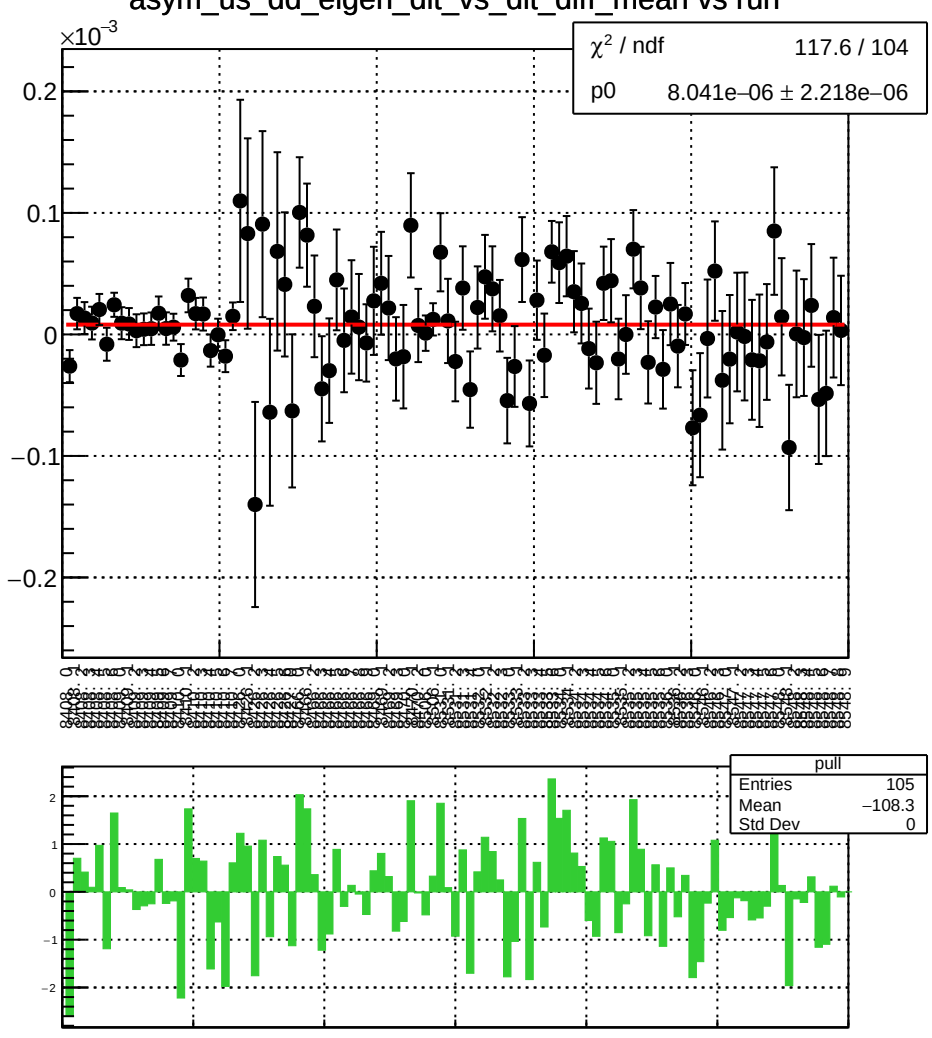

asym_us_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.908e+05 / 104
p0 21.67 ± 0.01591
50
45
40
35
30
25
20
15
10

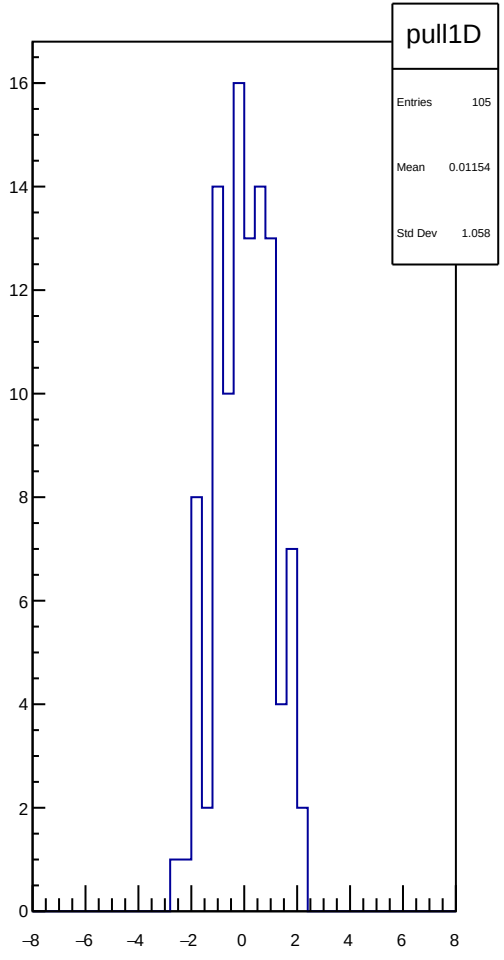

asym_us_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.05 / 104
p0 −0.02336 ± 0.0225
pull
Entries 105
Mean 174.7
Std Dev 0
pull1D
Entries 105
Mean −0.03561
Std Dev 0.9657

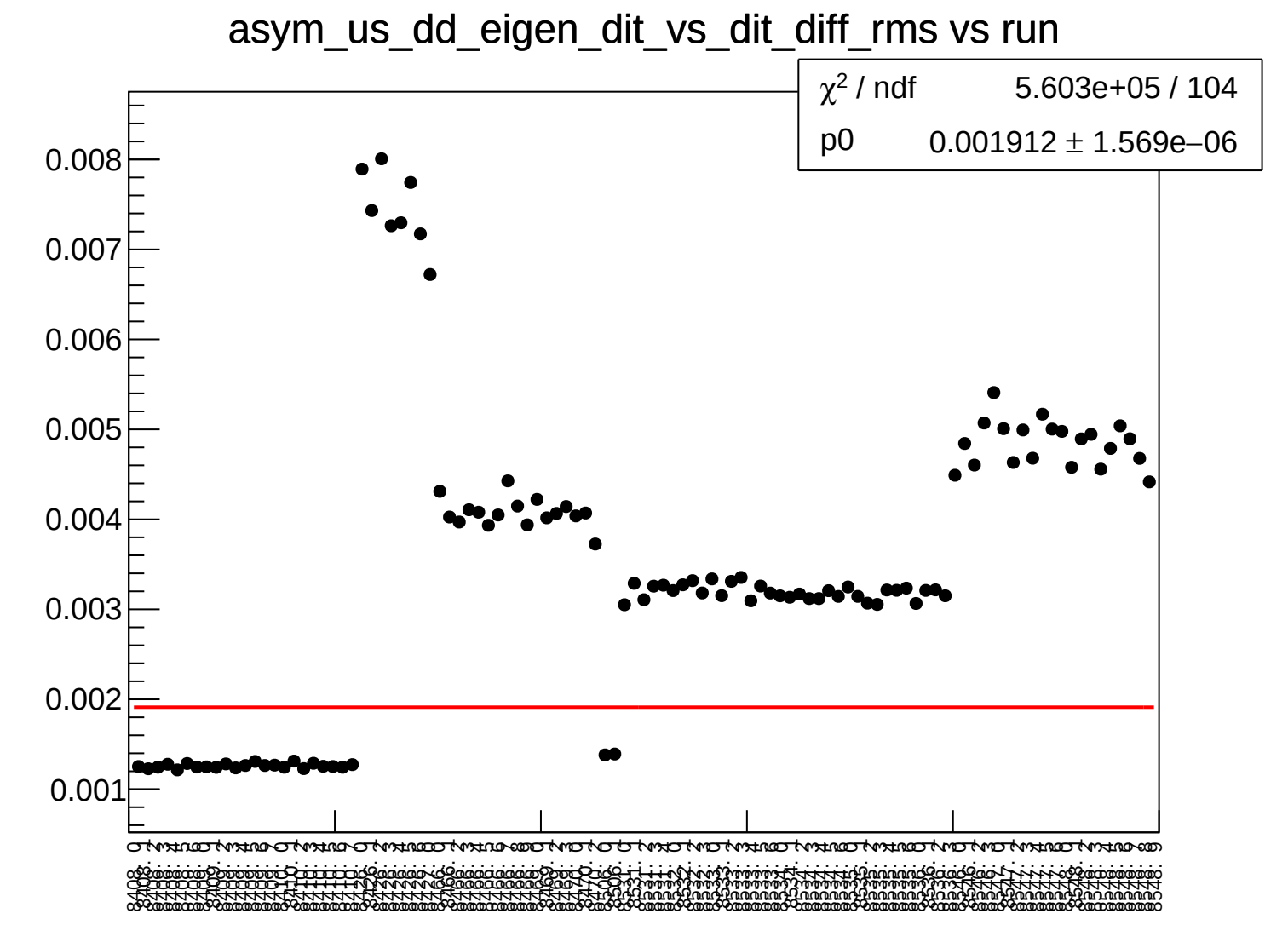

asym_us_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.908e+05 / 104
p0 21.67 ± 0.01591
50
45
40
35
30
25
20
15
10

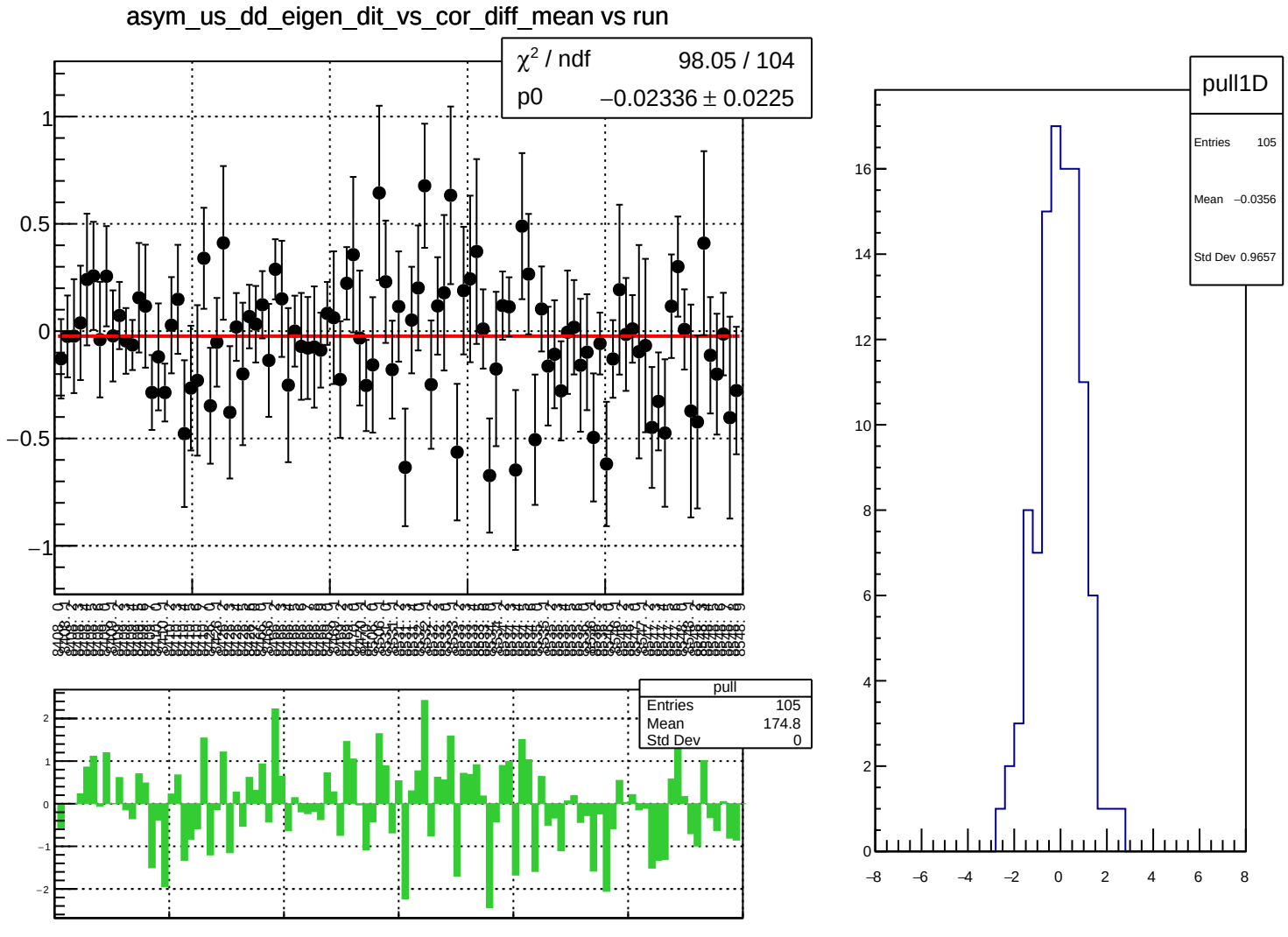

asym_us_dd_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 102.7 / 104
p0 0.01339 ± 0.03803
pull
Entries 105
Mean 179
Std Dev 0
pull1D
Entries 105
Mean −0.02933
Std Dev 0.9887

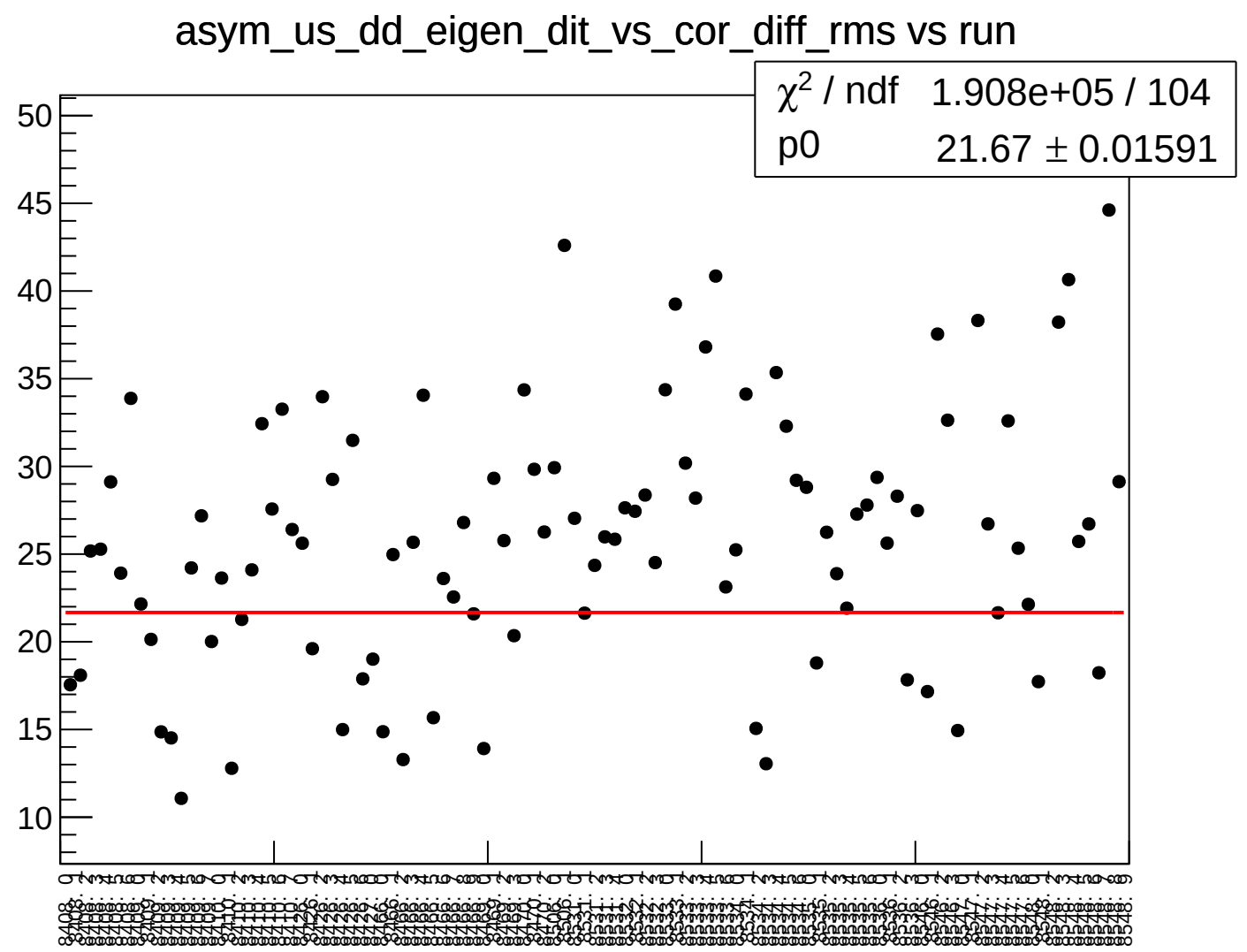

asym_us_dd_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 7.089e+04 / 104
p0 37.79 ± 0.02689
60
55
50
45
40
35
30
25
20

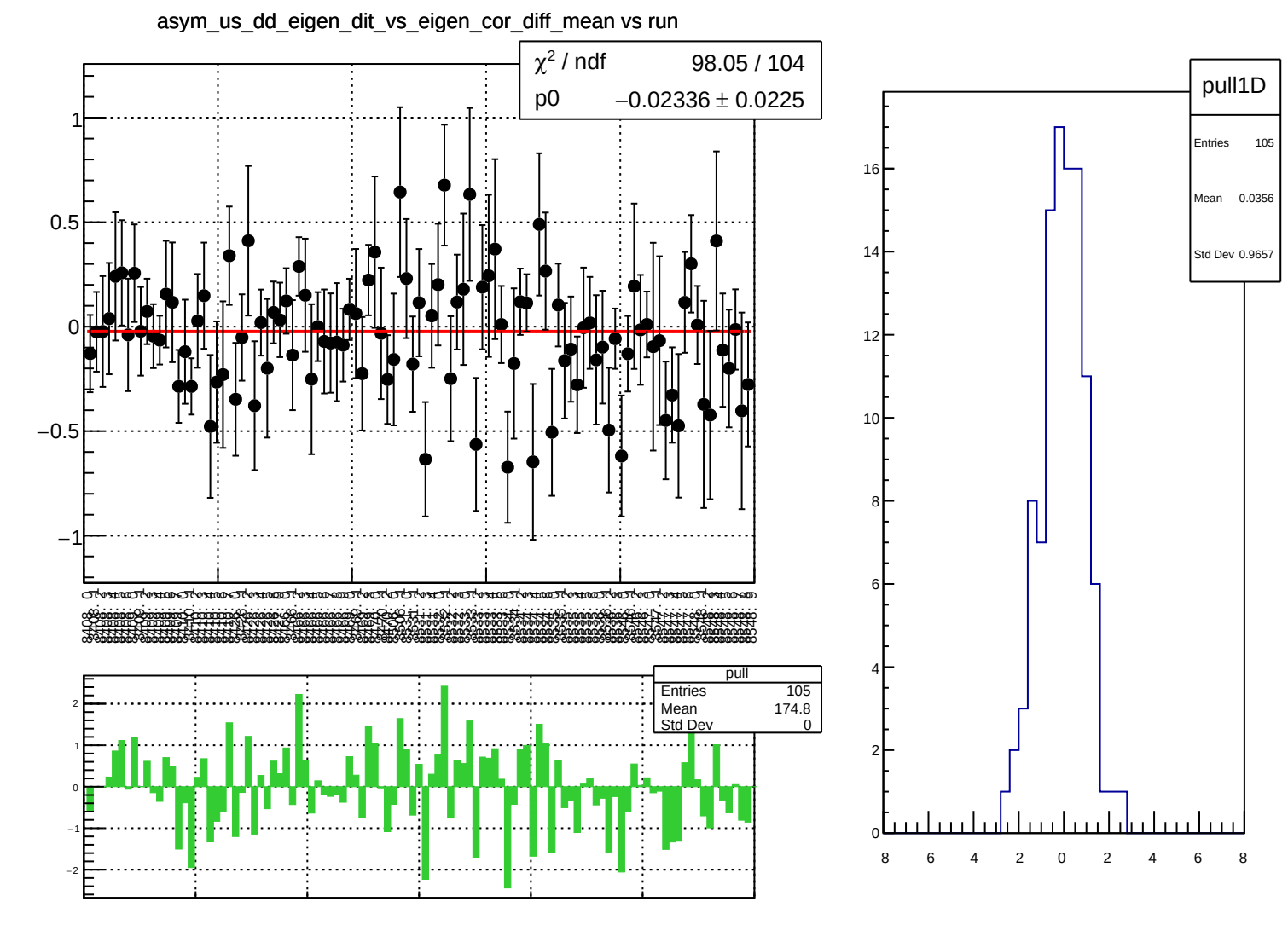

asym_us_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 117.6 / 104
p0 8.041e−06 ± 2.218e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 105
Mean −108.3
Std Dev 0
2
1
0
−1
−2

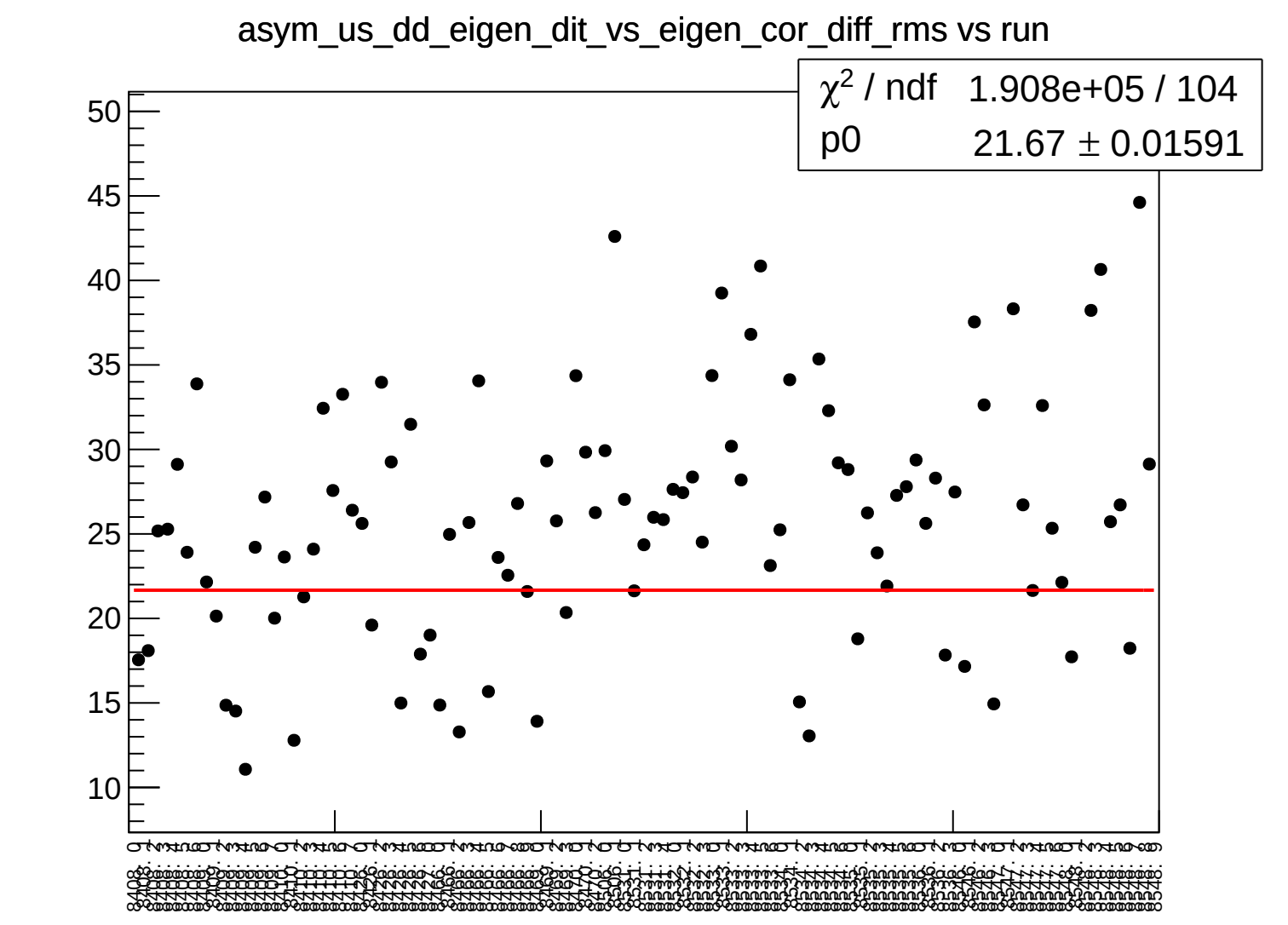

pull1D
Entries 105
Mean 0.01154
Std Dev 1.058
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

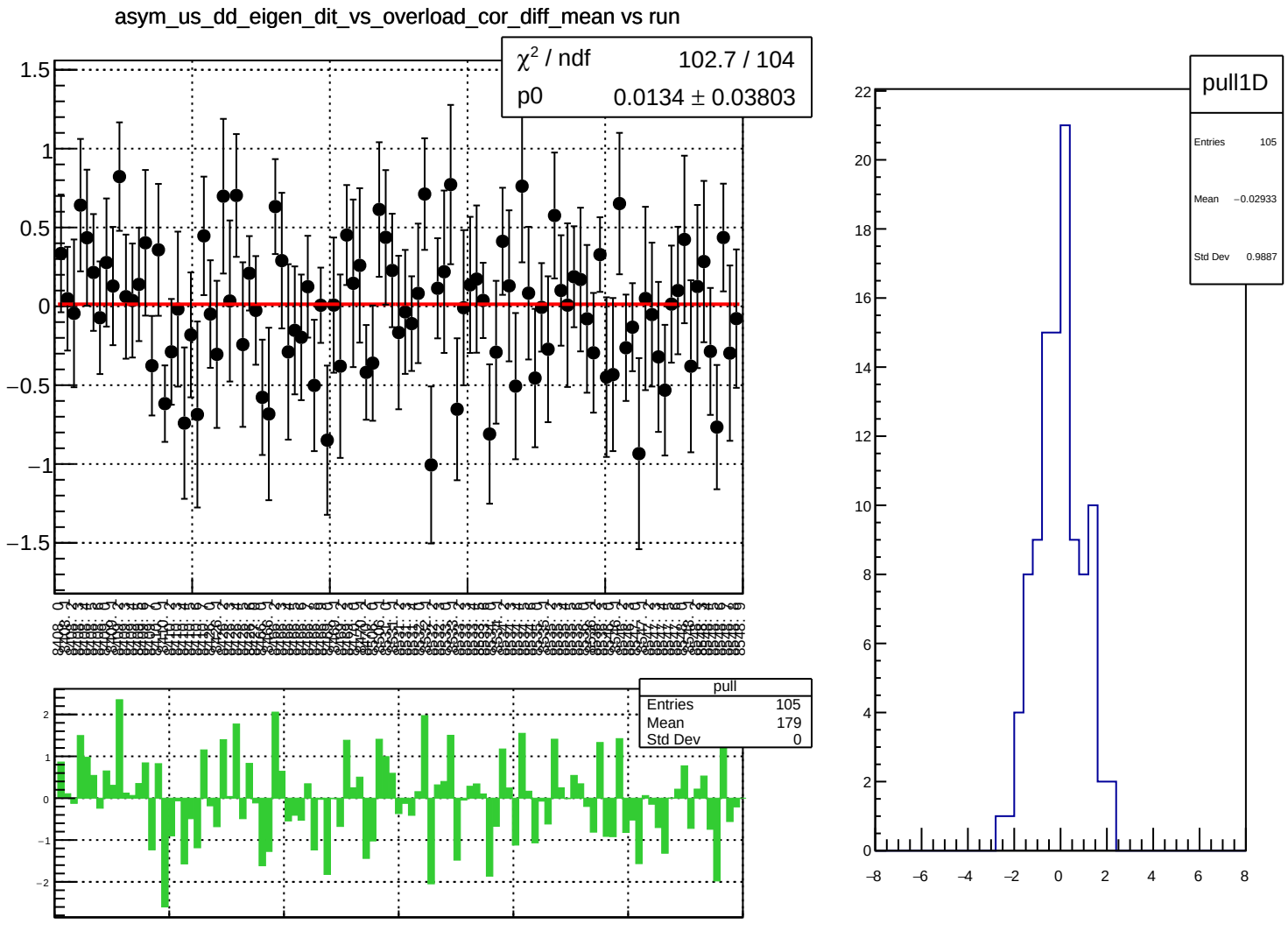

asym_us_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.603e+05 / 104
p0 0.001912 ± 1.569e−06
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001

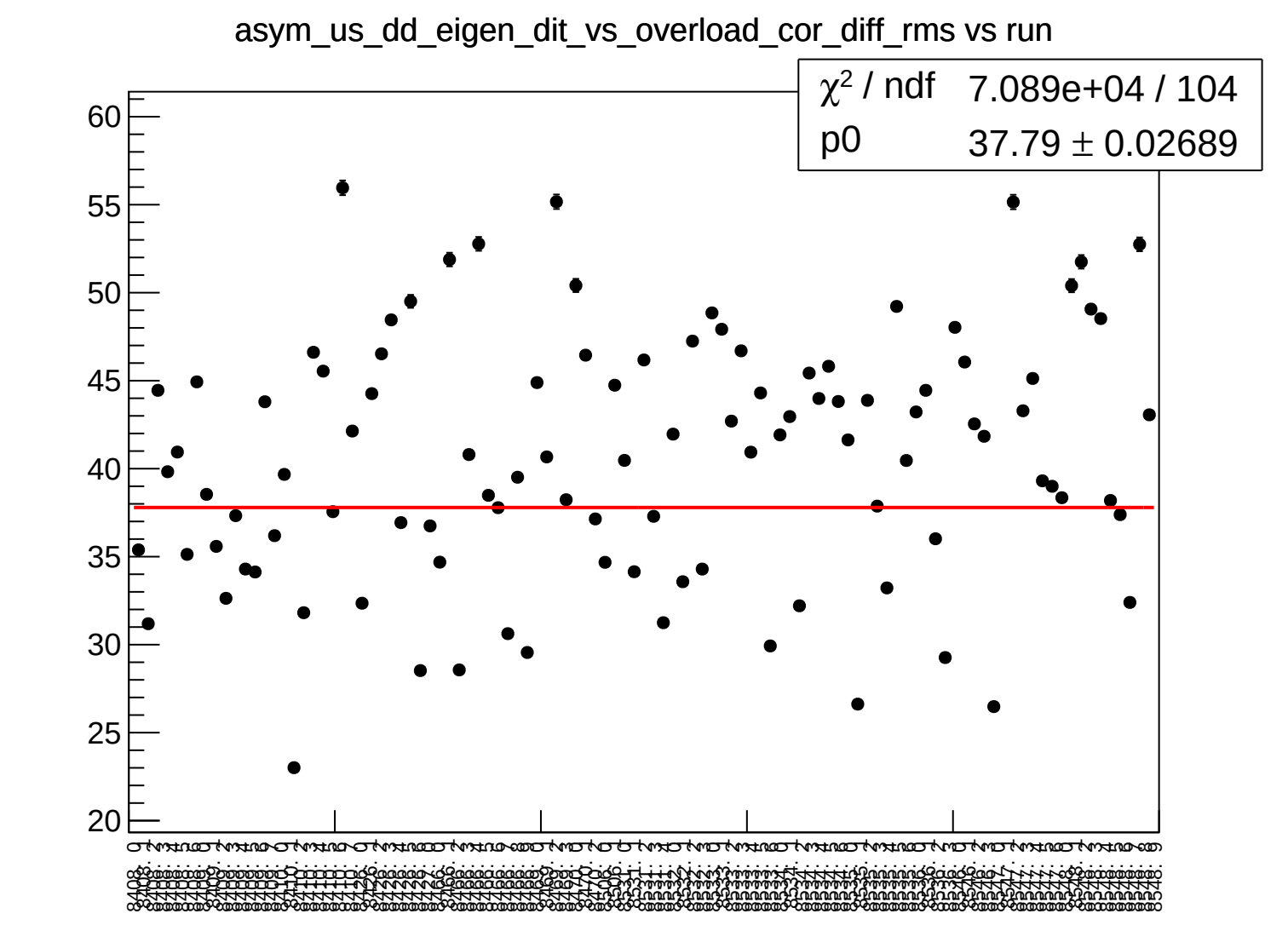

asym_us_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 98.05 / 104
p0 −0.02336 ± 0.0225
pull
Entries 105
Mean 174.8
Std Dev 0
pull1D
Entries 105
Mean −0.0356
Std Dev 0.9657

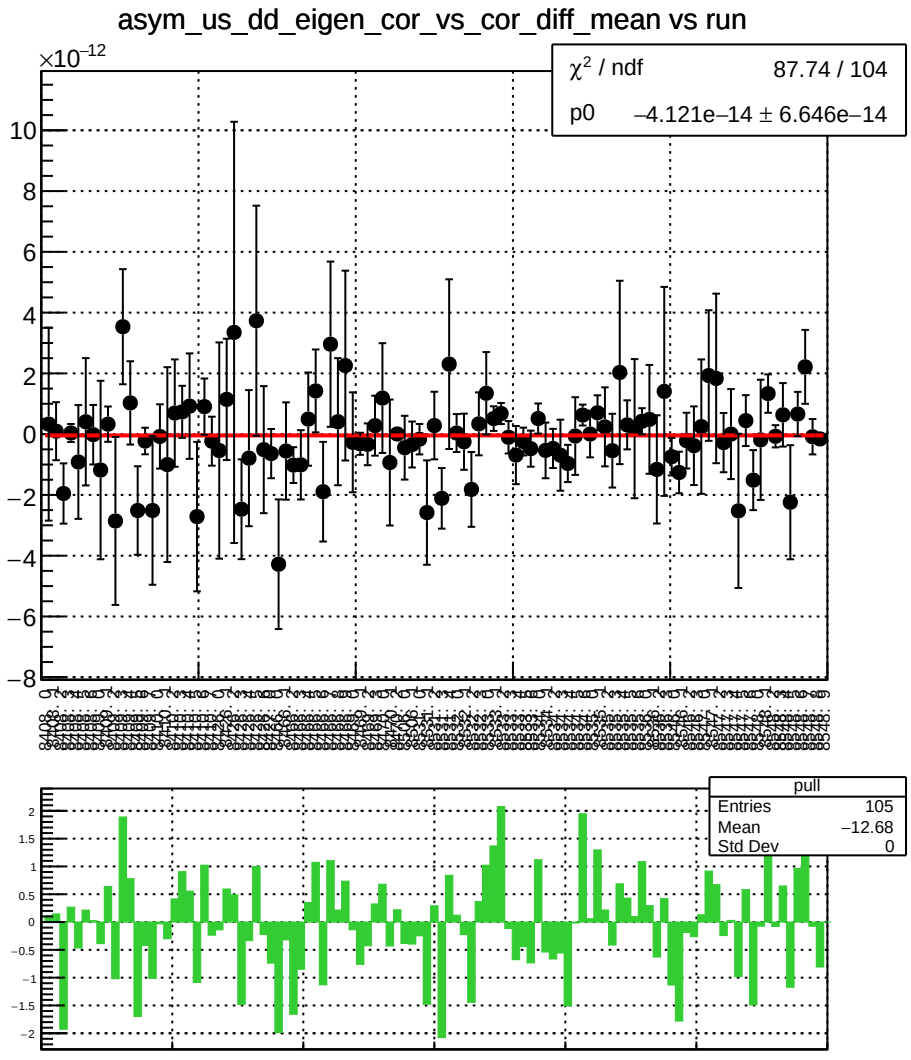

asym_us_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.908e+05 / 104
p0 21.67 ± 0.01591
50
45
40
35
30
25
20
15
10

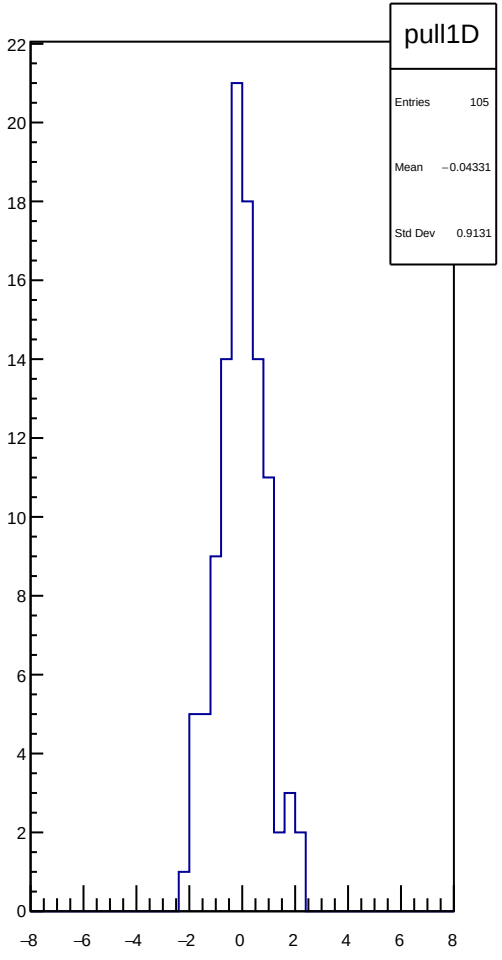

asym_us_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.05 / 104
p0 −0.02336 ± 0.0225
pull
Entries 105
Mean 174.8
Std Dev 0
pull1D
Entries 105
Mean −0.0356
Std Dev 0.9657

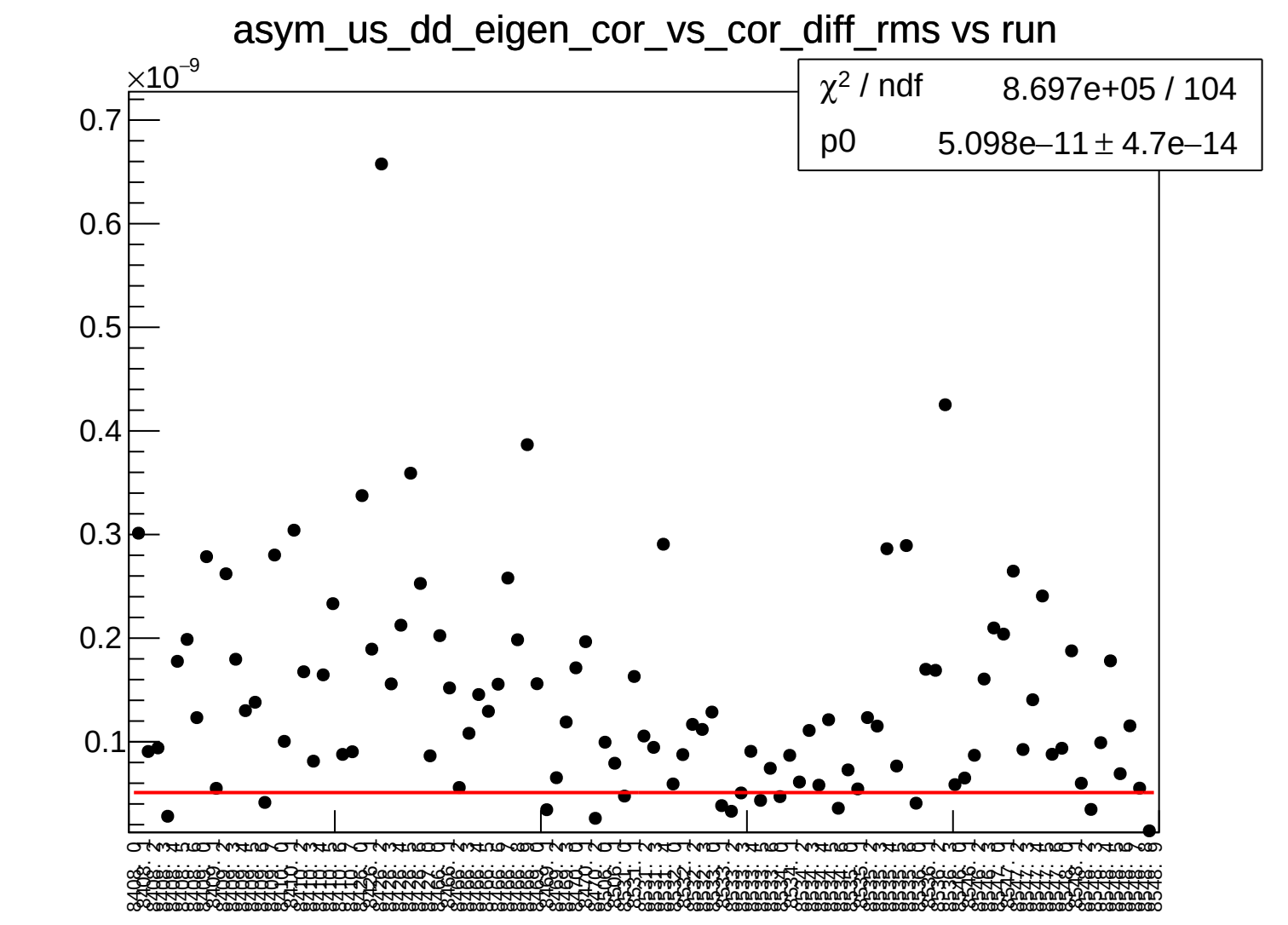

asym_us_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.908e+05 / 104
p0 21.67 ± 0.01591
50
45
40
35
30
25
20
15
10

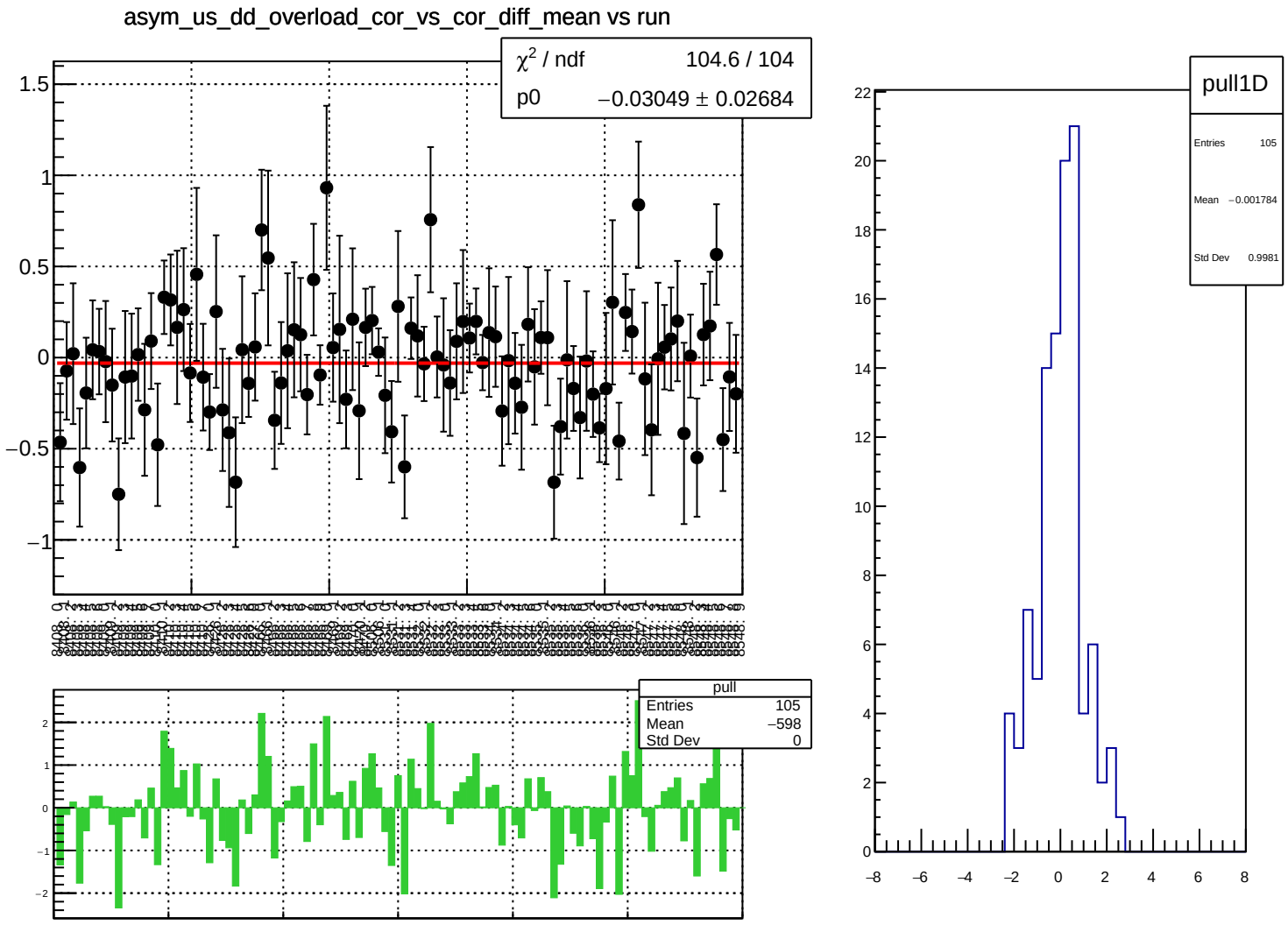

asym_us_dd_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 102.7 / 104
p0 0.0134 ± 0.03803
pull
Entries 105
Mean 179
Std Dev 0
pull1D
Entries 105
Mean −0.02933
Std Dev 0.9887

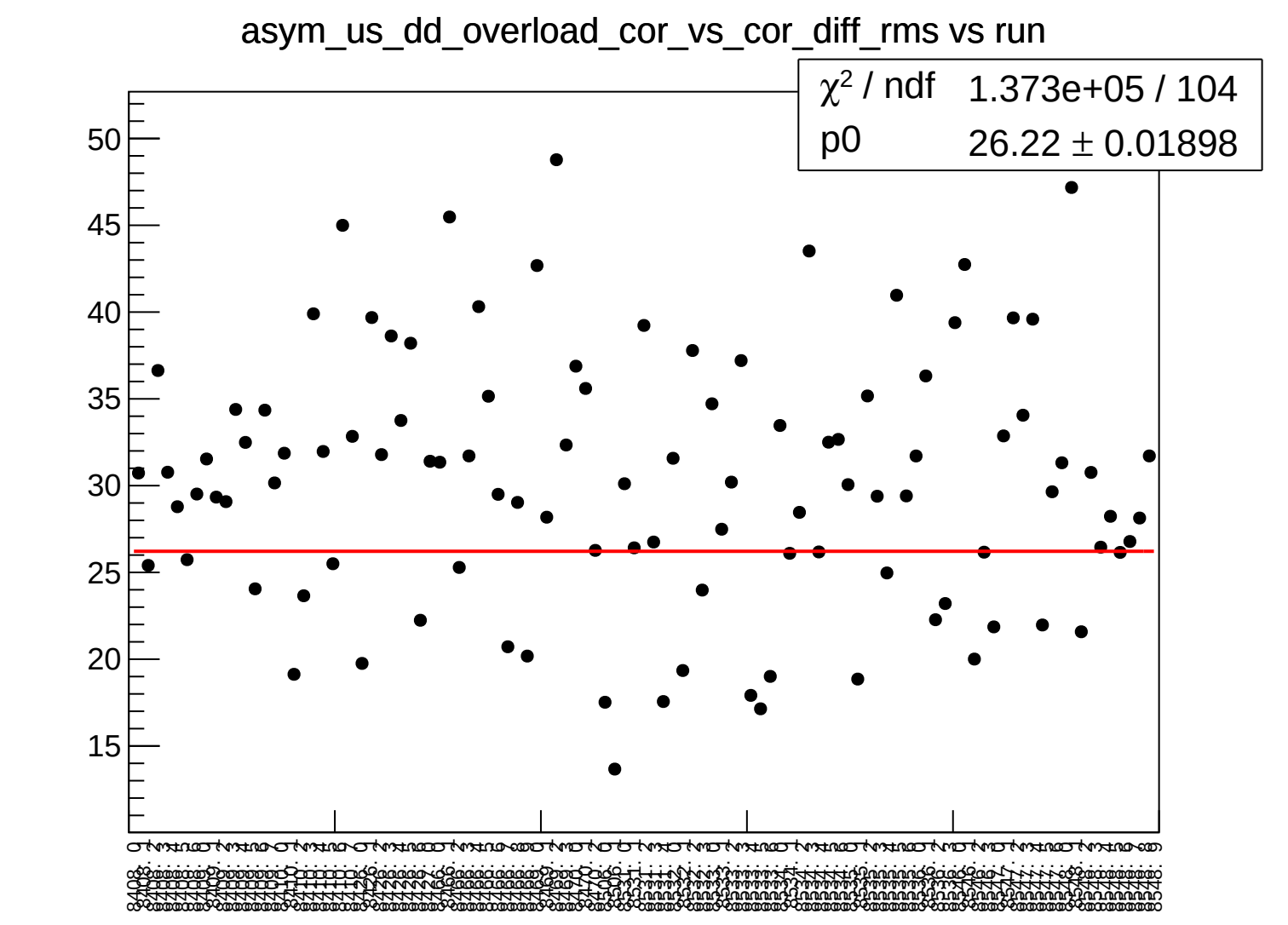

asym_us_dd_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 7.089e+04 / 104
p0 37.79 ± 0.02689
60
55
50
45
40
35
30
25
20

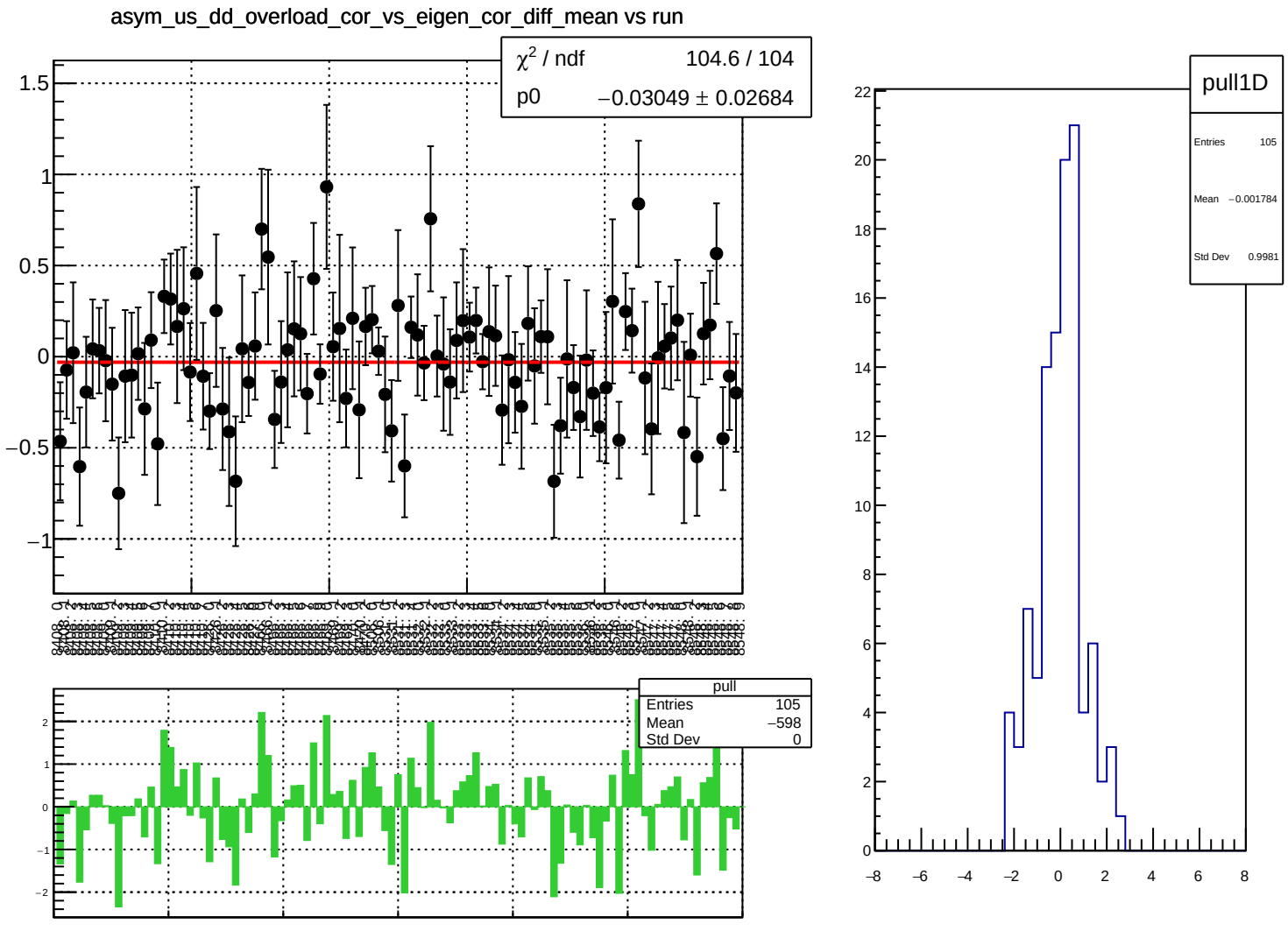

asym_us_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.74 / 104
p0 −4.121e−14 ± 6.646e−14
pull
Entries 105
Mean −12.68
Std Dev 0

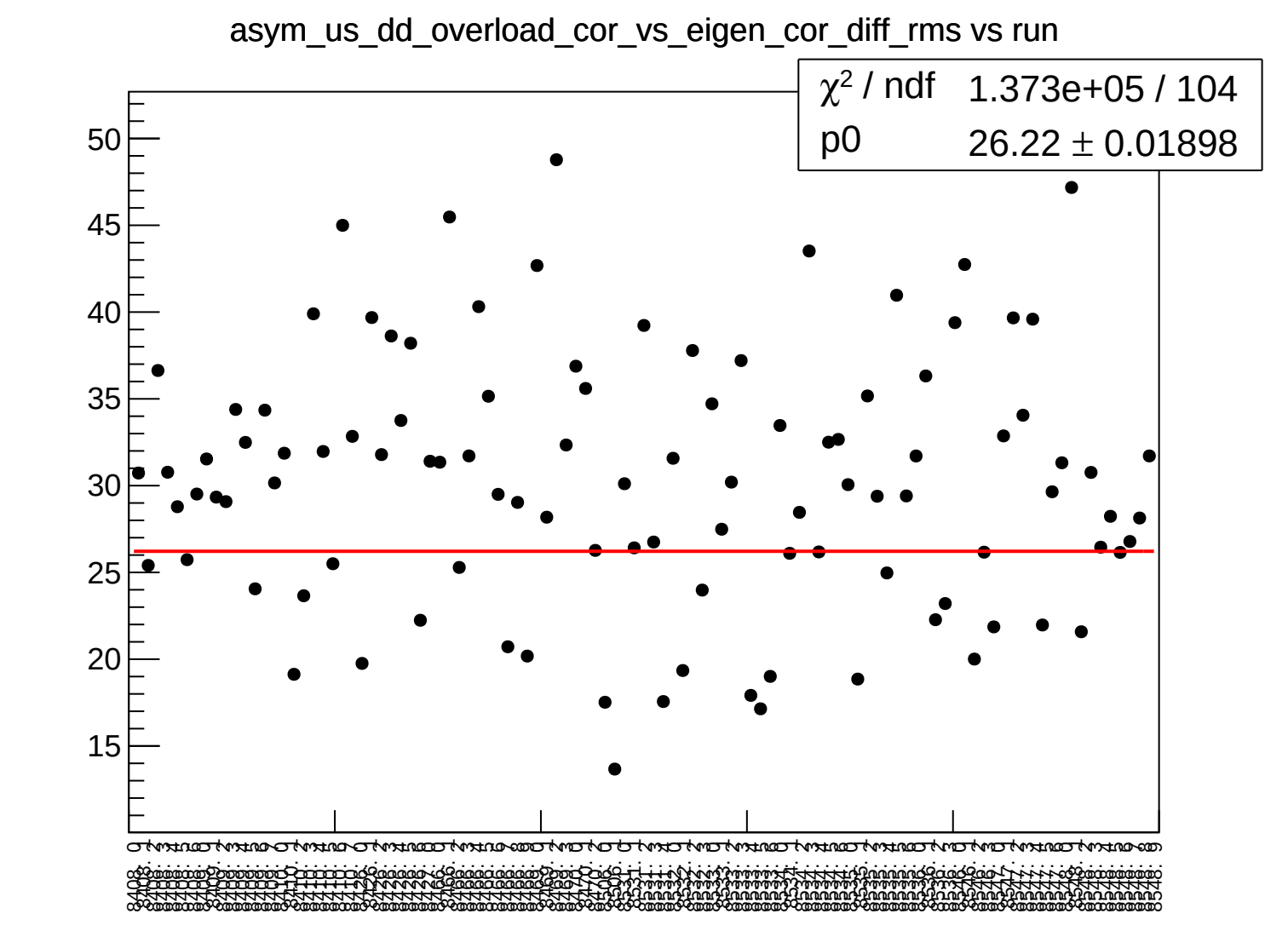

pull1D
Entries 105
Mean −0.04331
Std Dev 0.9131

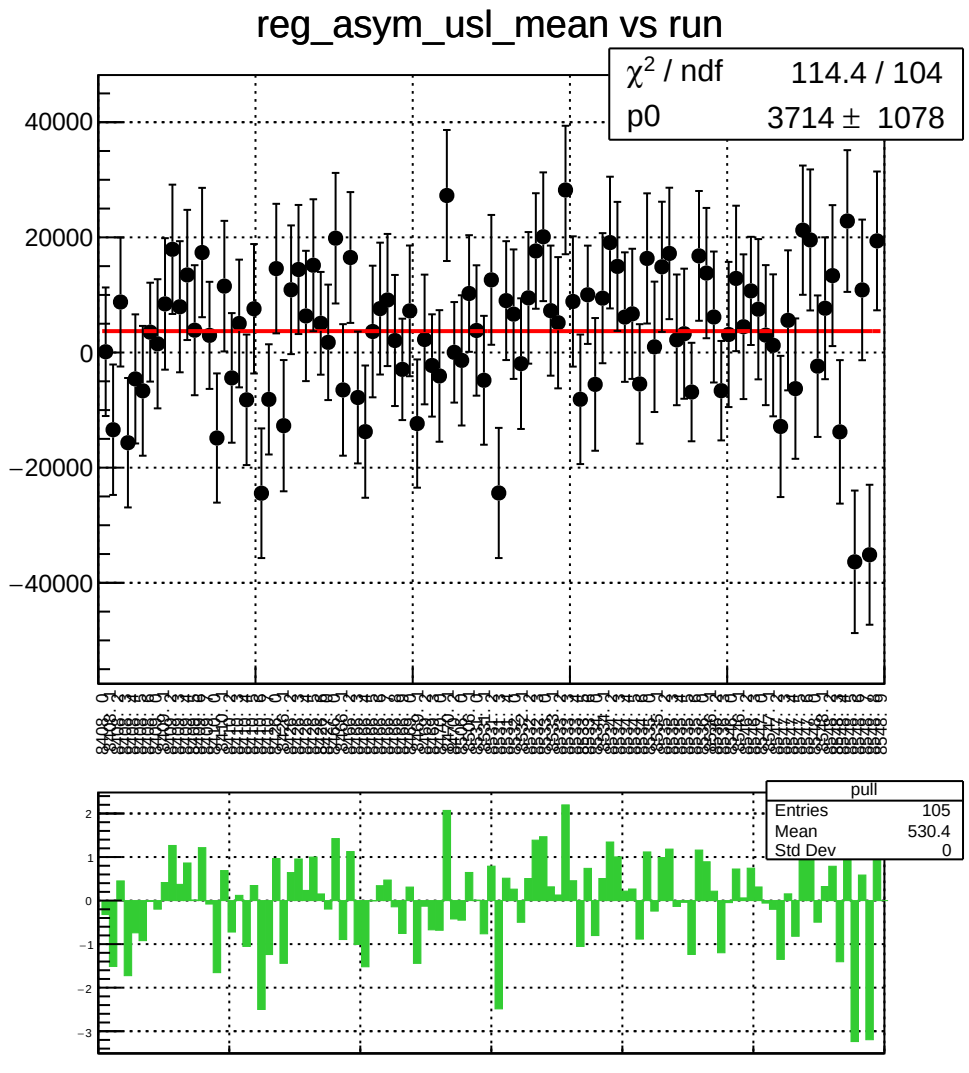

asym_us_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.697e+05 / 104
p0 5.098e−11 ± 4.7e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1

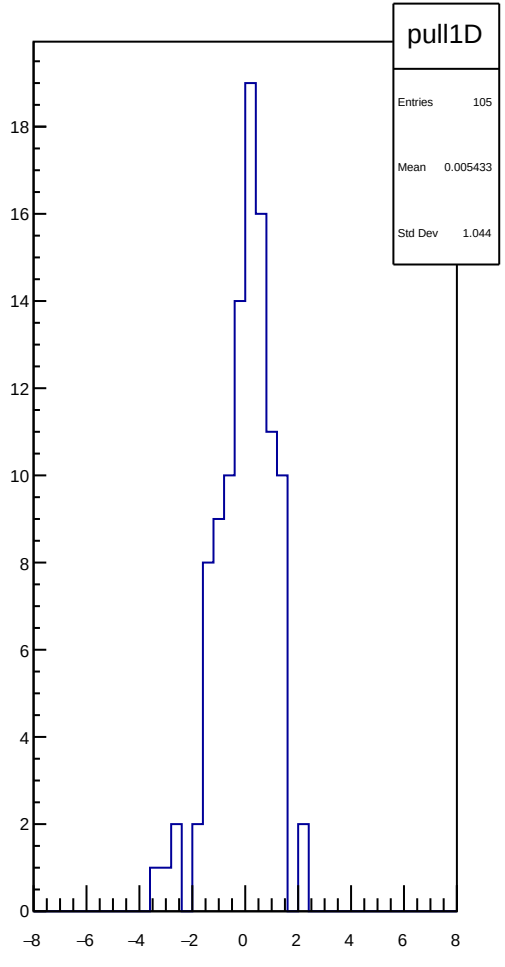

asym_us_dd_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 104.6 / 104
p0 −0.03049 ± 0.02684
pull
Entries 105
Mean −598
Std Dev 0
pull1D
Entries 105
Mean −0.001784
Std Dev 0.9981

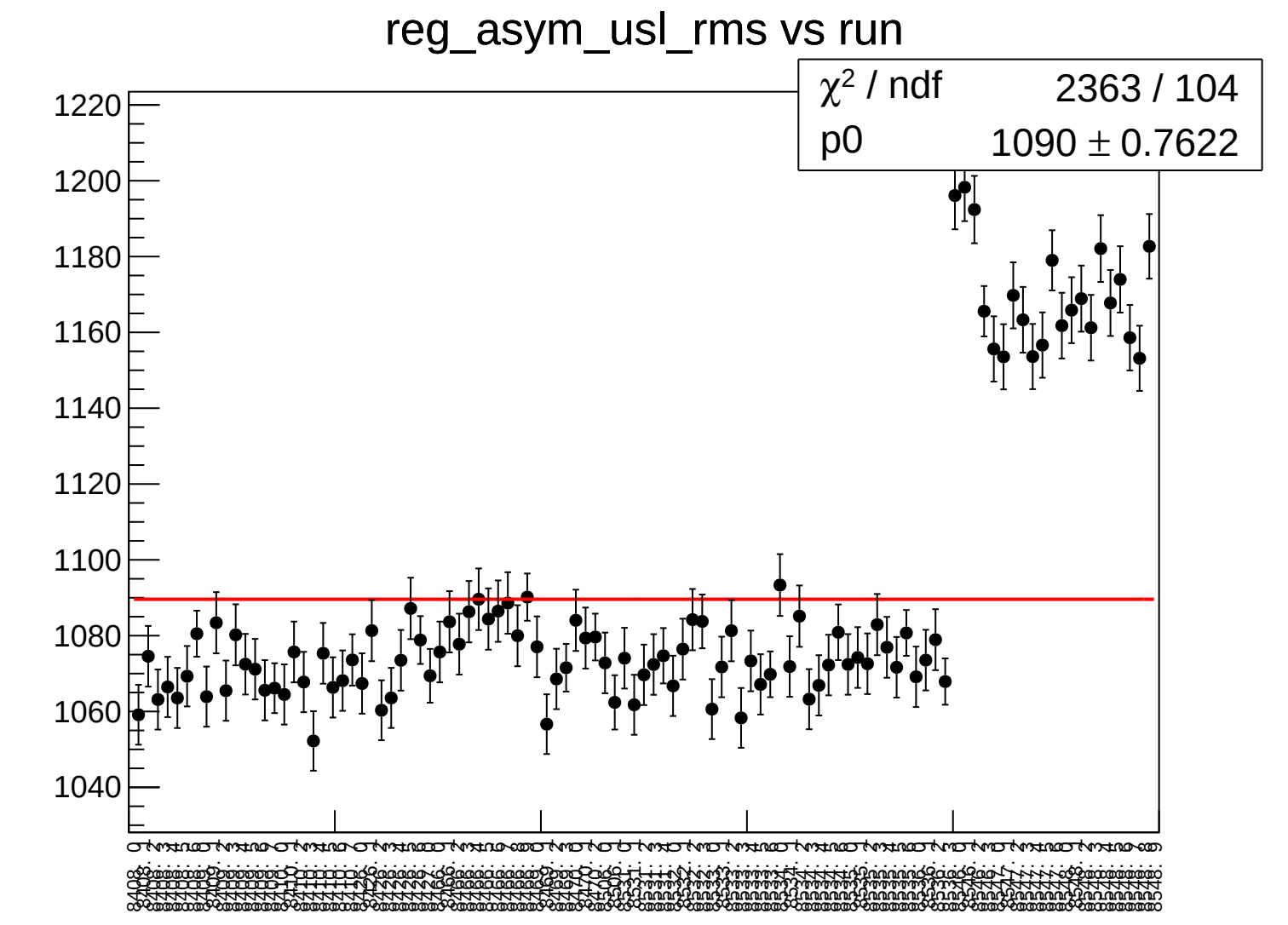

asym_us_dd_overload_cor_vs_cor_diff_rms vs run
χ² / ndf 1.373e+05 / 104
p0 26.22 ± 0.01898
50
45
40
35
30
25
20
15

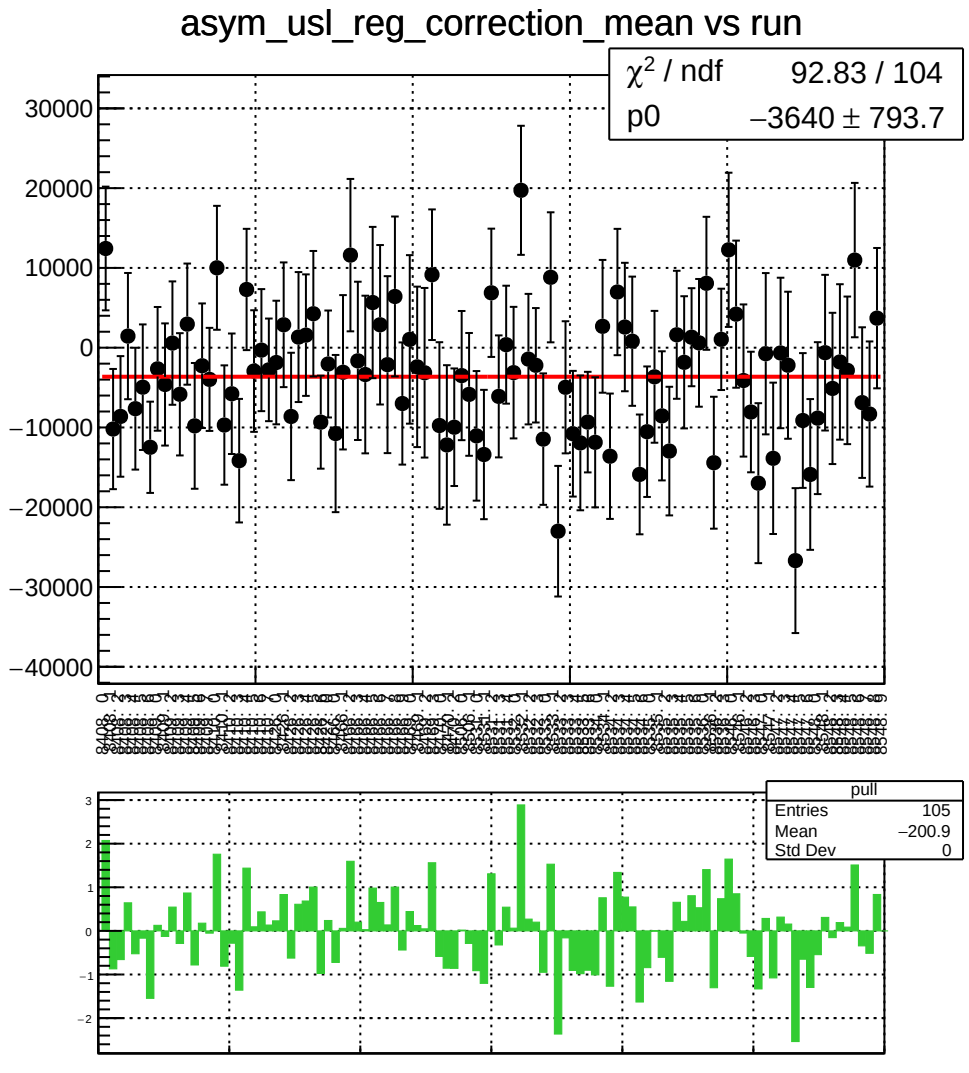

asym_us_dd_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.6 / 104
p0 −0.03049 ± 0.02684
pull
Entries 105
Mean −598
Std Dev 0
pull1D
Entries 105
Mean −0.001784
Std Dev 0.9981

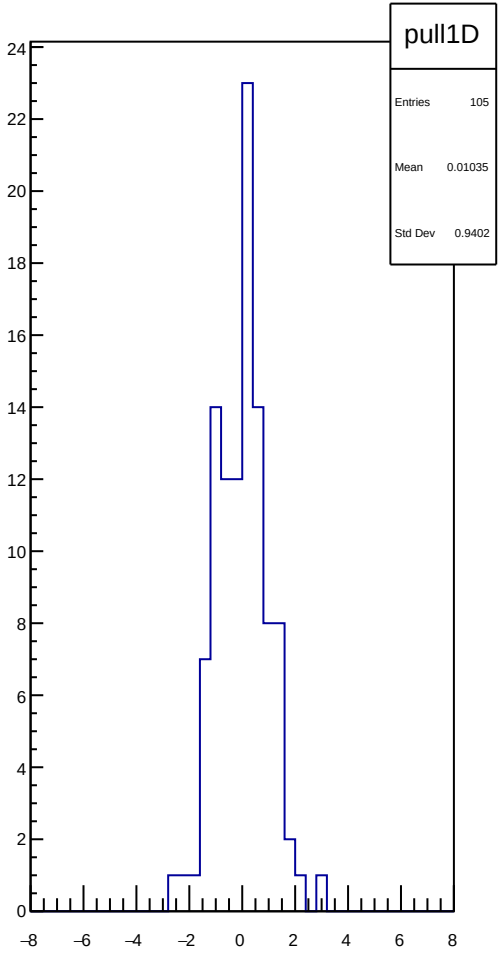

asym_us_dd_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.373e+05 / 104
p0 26.22 ± 0.01898
50
45
40
35
30
25
20
15

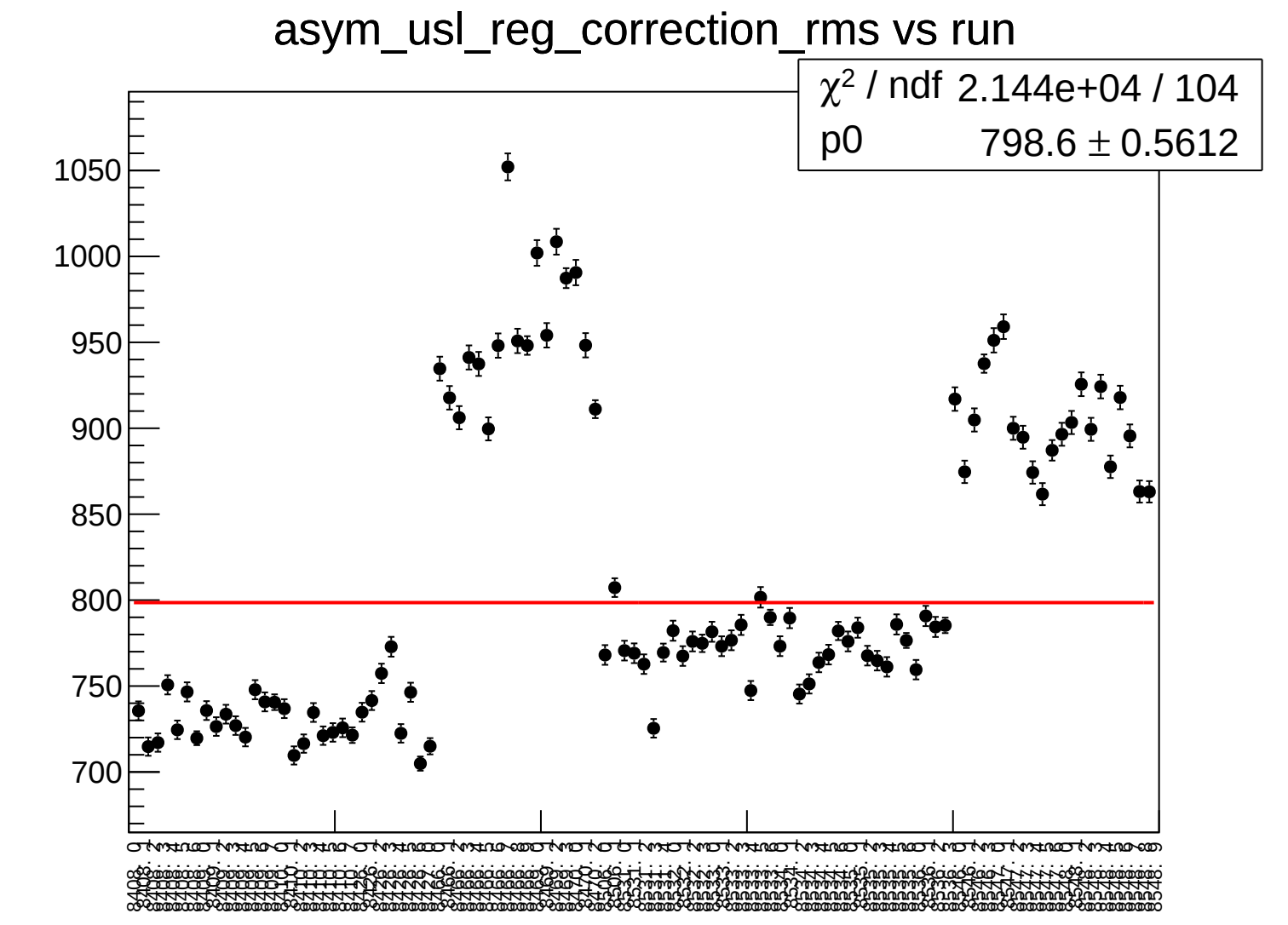

reg_asym_usl_mean vs run
χ² / ndf 114.4 / 104
p0 3714 ± 1078
40000
20000
0
−20000
−40000
pull
Entries 105
Mean 530.4
Std Dev 0
2
1
0
−1
−2
−3

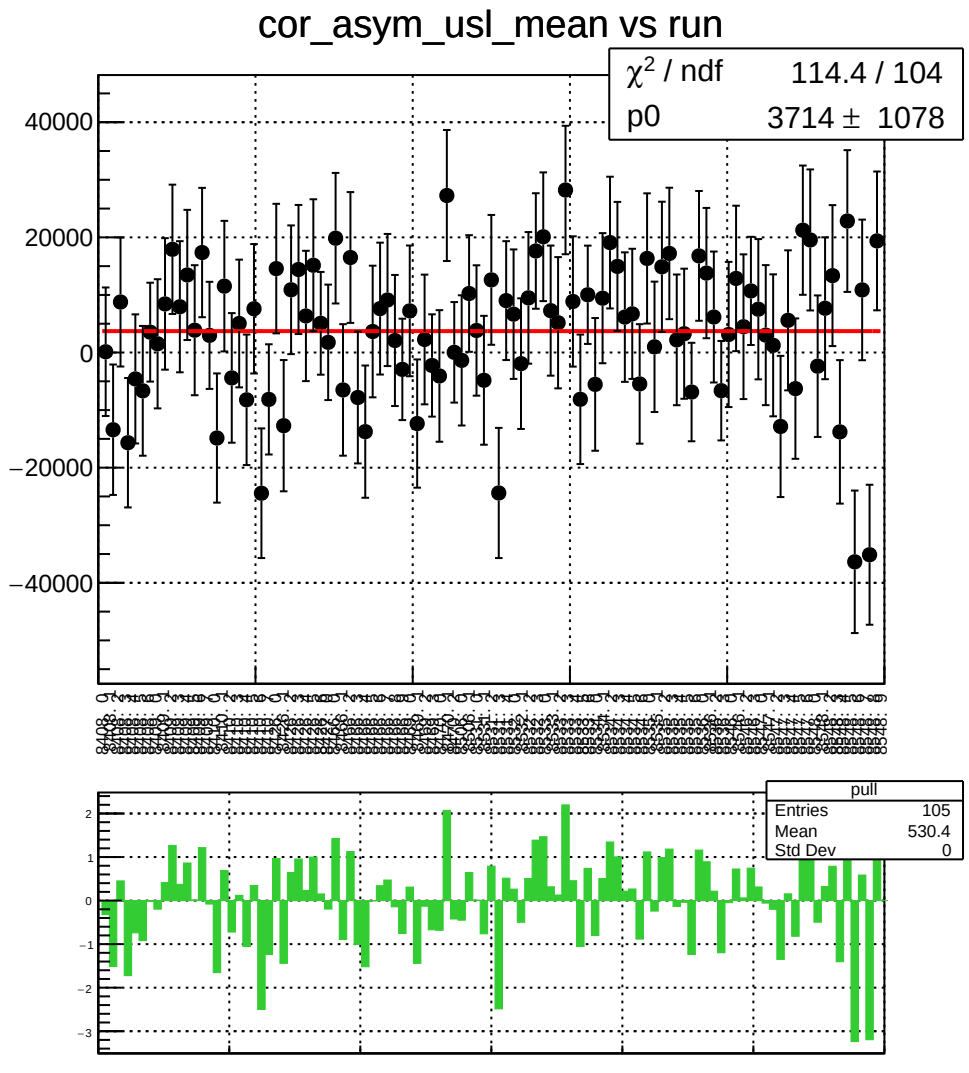

pull1D
Entries 105
Mean 0.005433
Std Dev 1.044
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

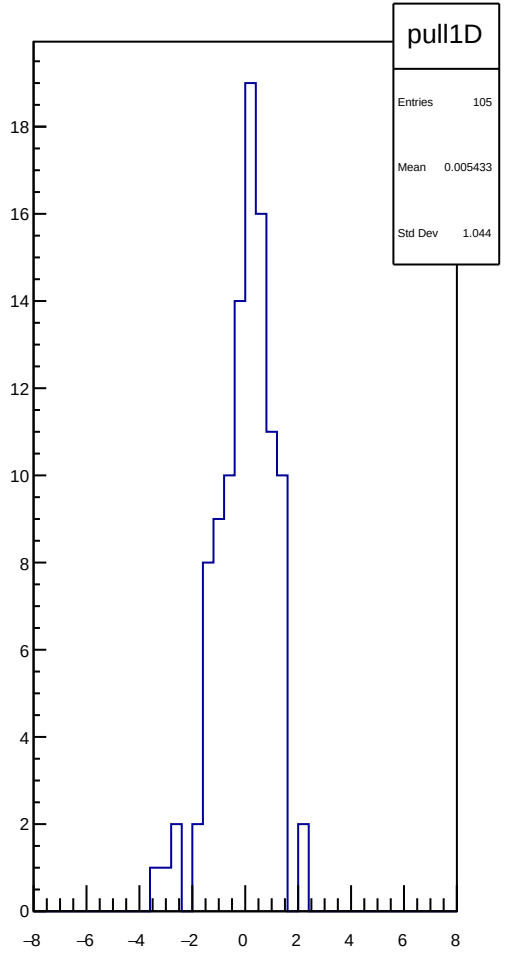

reg_asym_usl_rms vs run
χ² / ndf 2363 / 104
p0 1090 ± 0.7622
1220
1200
1180
1160
1140
1120
1100
1080
1060
1040

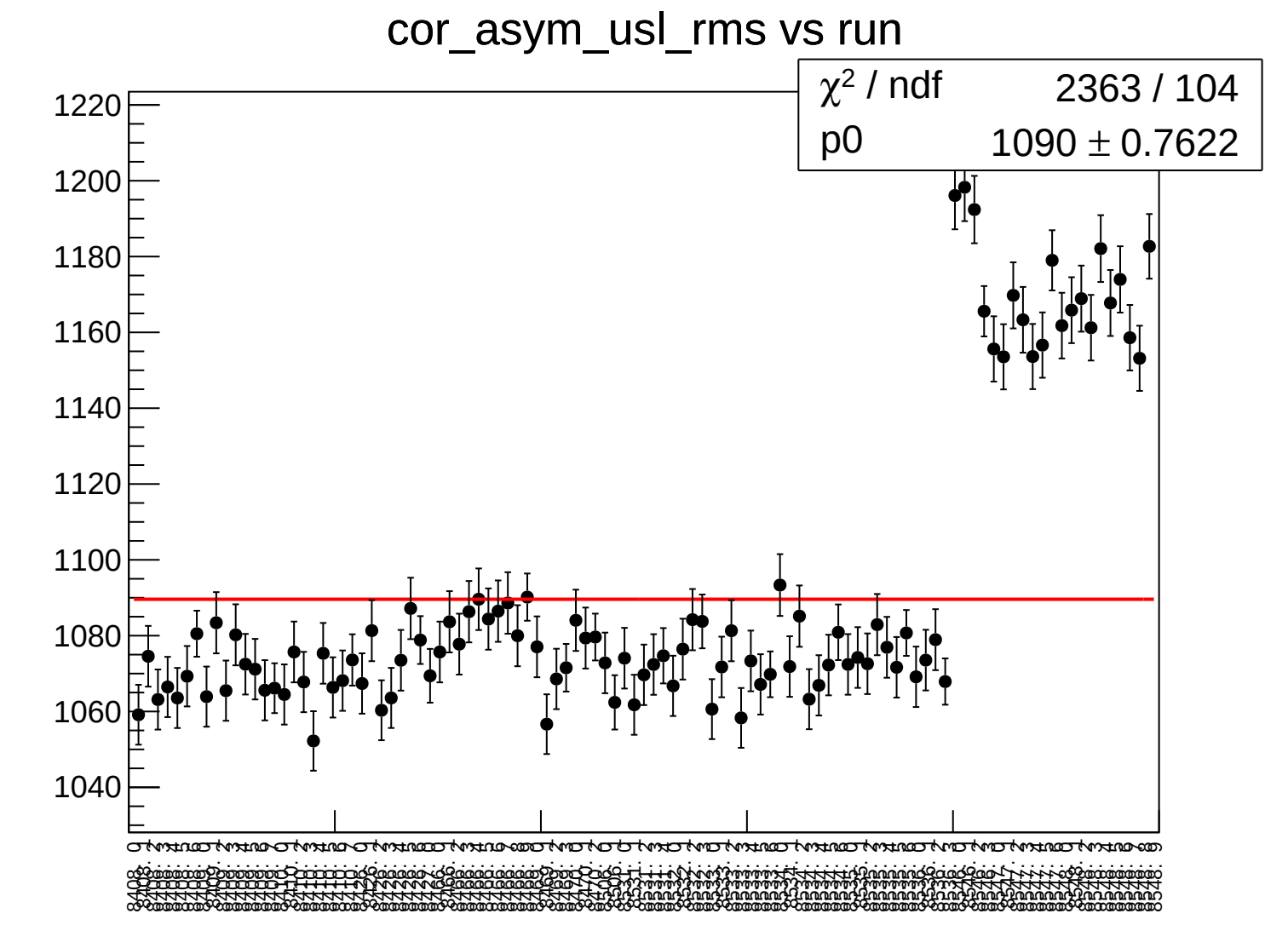

asym_usl_reg_correction_mean vs run
χ² / ndf 92.83 / 104
p0 −3640 ± 793.7
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 105
Mean −200.9
Std Dev 0
3
2
1
0
−1
−2

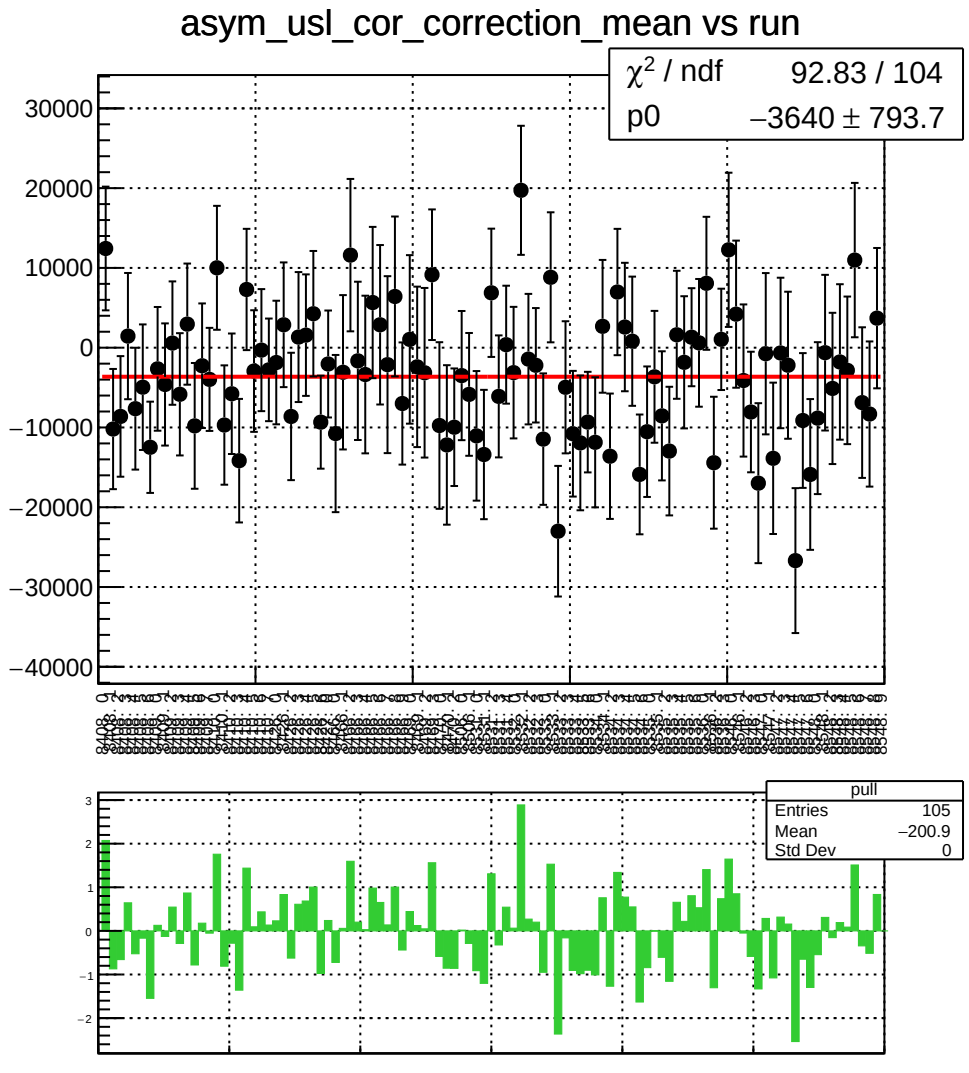

pull1D
Entries 105
Mean 0.01035
Std Dev 0.9402
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

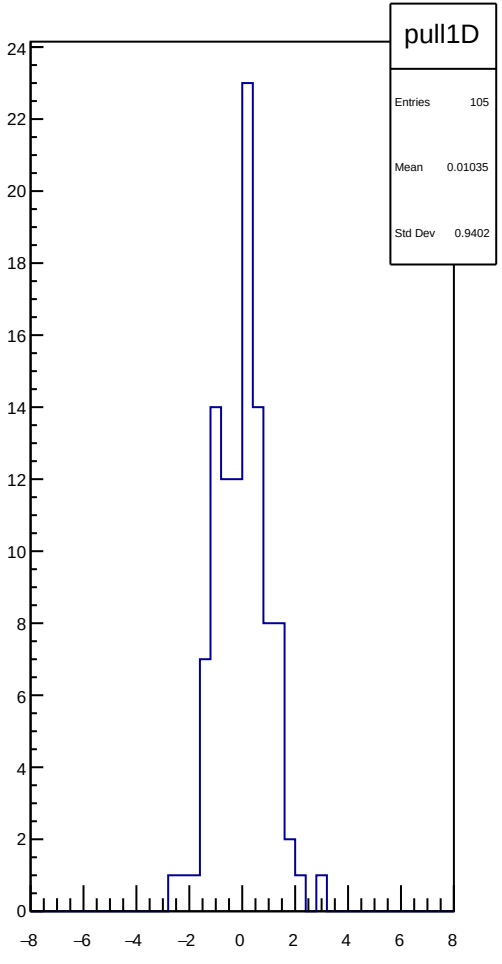

asym_usl_reg_correction_rms vs run
χ² / ndf 2.144e+04 / 104
p0 798.6 ± 0.5612
1050
1000
950
900
850
800
750
700

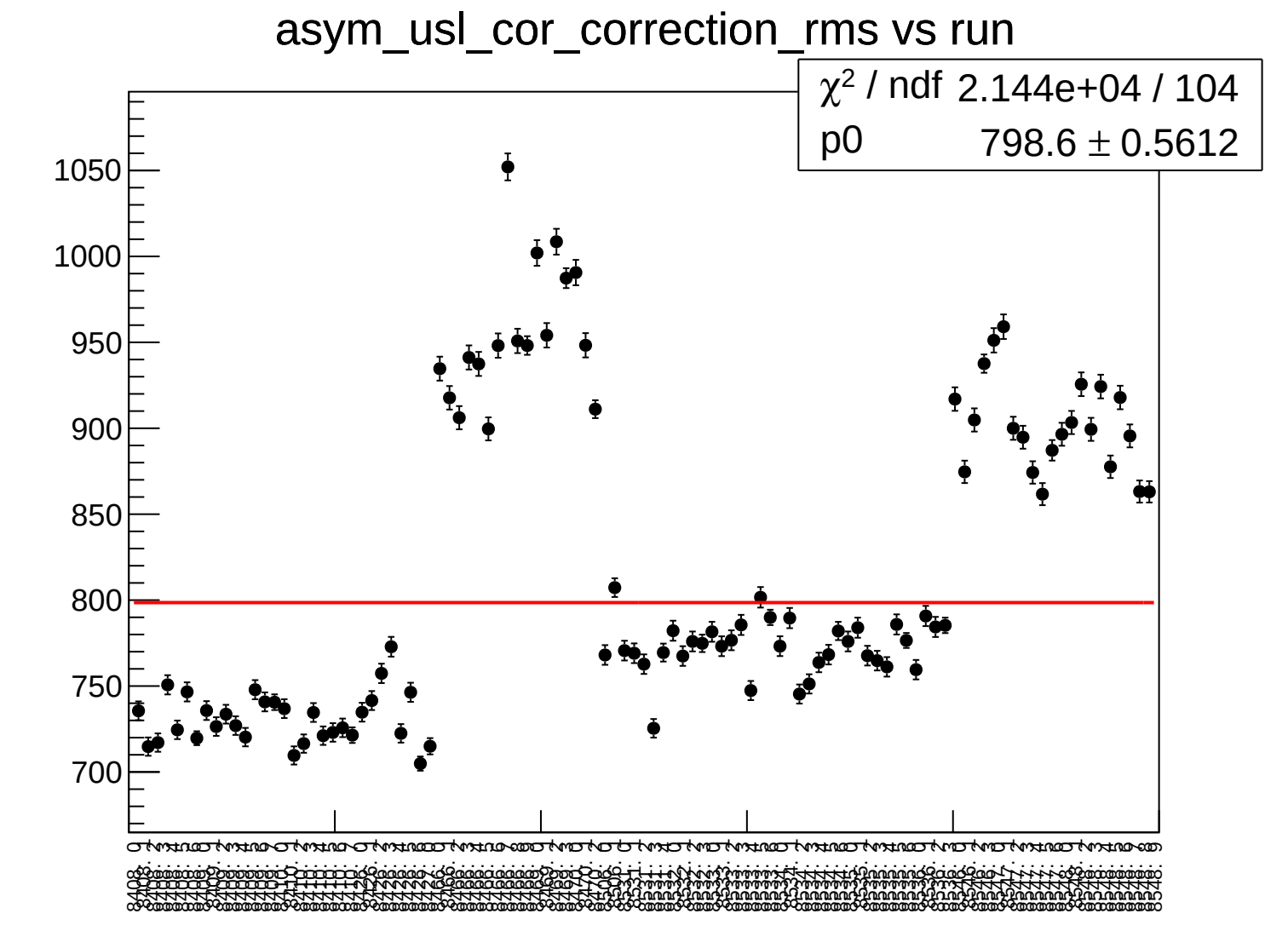

cor_asym_usl_mean vs run
χ² / ndf 114.4 / 104
p0 3714 ± 1078
40000
20000
0
−20000
−40000
pull
Entries 105
Mean 530.4
Std Dev 0
2
1
0
−1
−2
−3

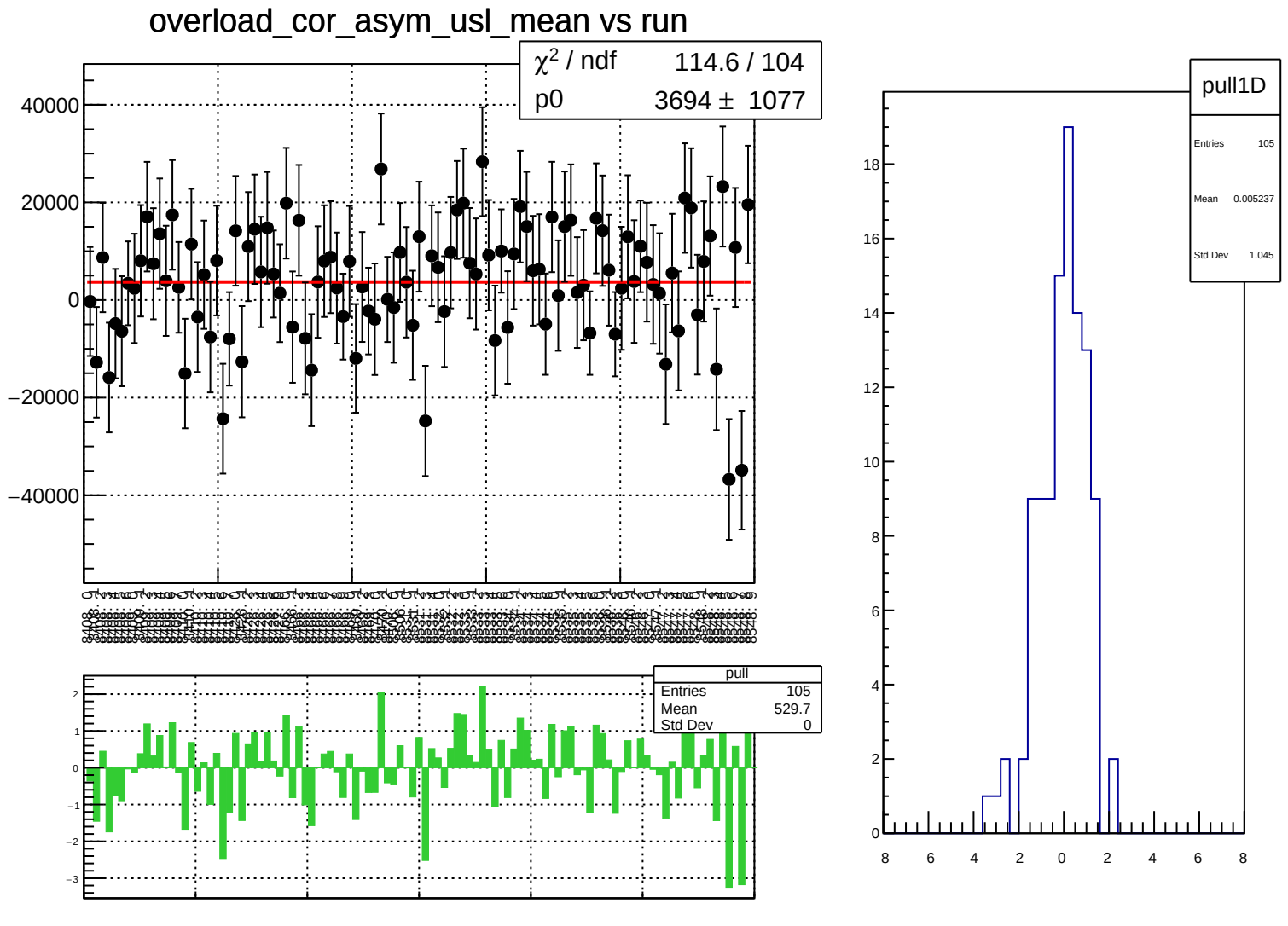

pull1D
Entries 105
Mean 0.005433
Std Dev 1.044
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

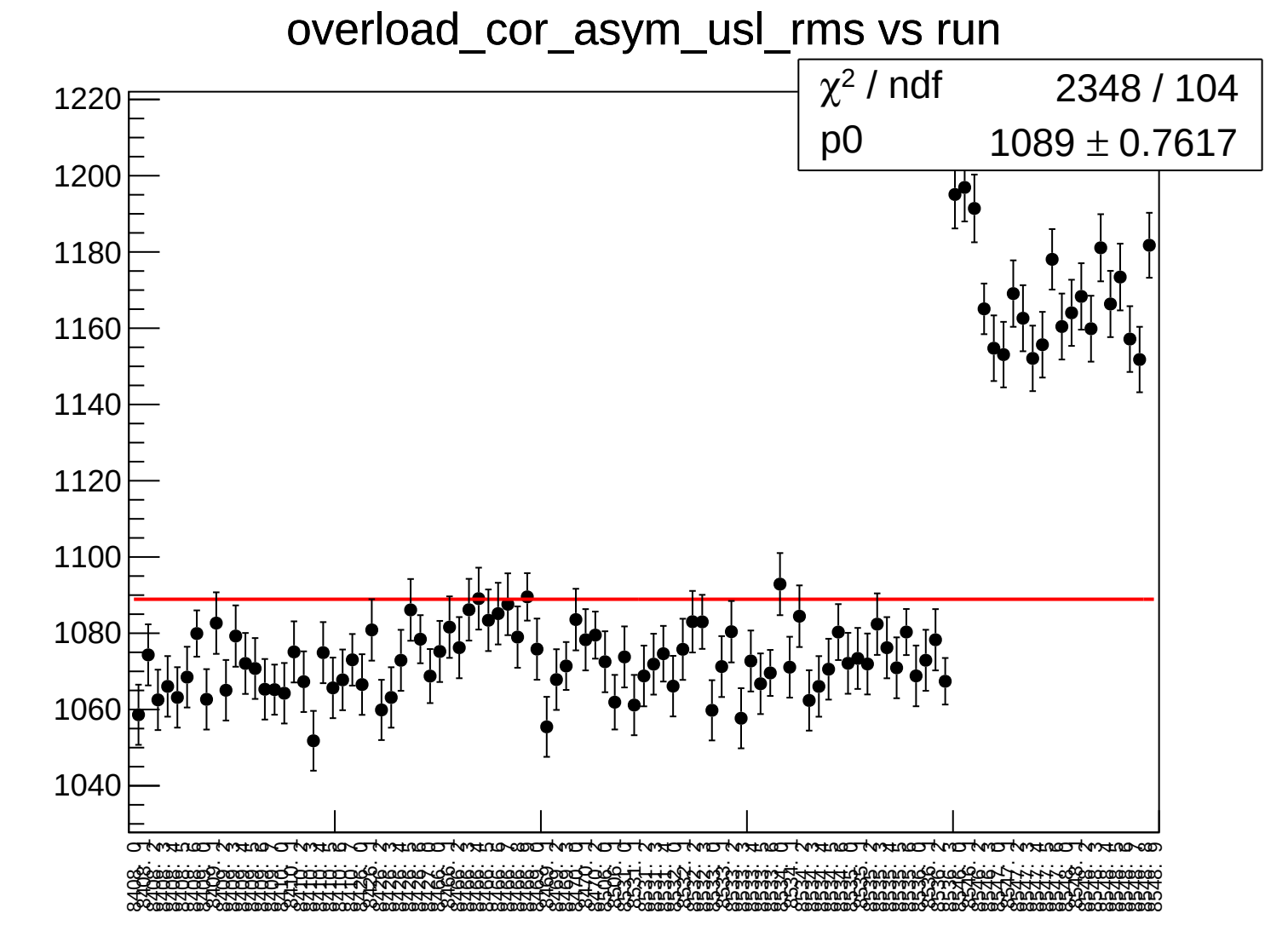

cor_asym_usl_rms vs run
χ² / ndf 2363 / 104
p0 1090 ± 0.7622
1220
1200
1180
1160
1140
1120
1100
1080
1060
1040

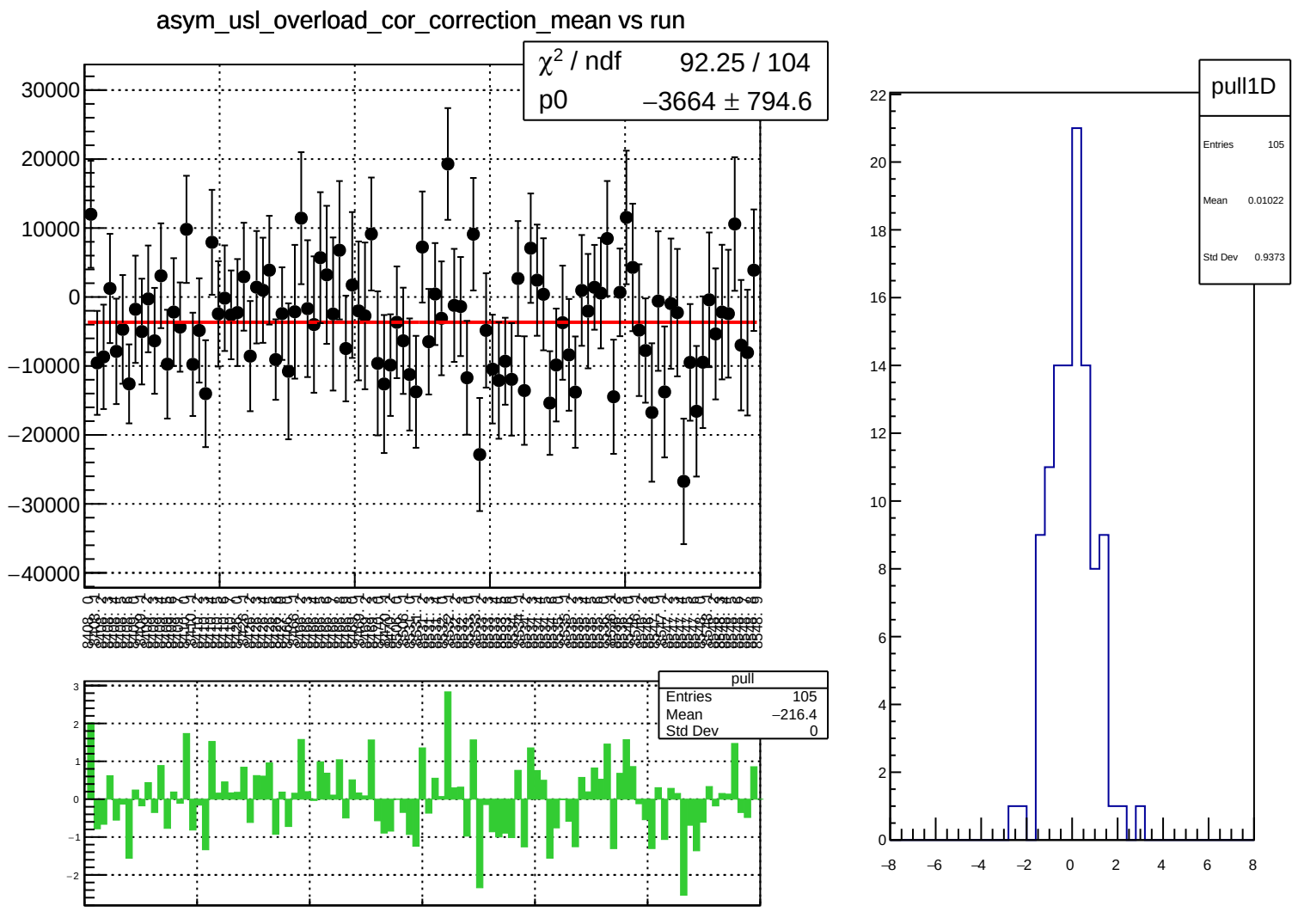

asym_usl_cor_correction_mean vs run
χ² / ndf 92.83 / 104
p0 −3640 ± 793.7
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 105
Mean −200.9
Std Dev 0
3
2
1
0
−1
−2

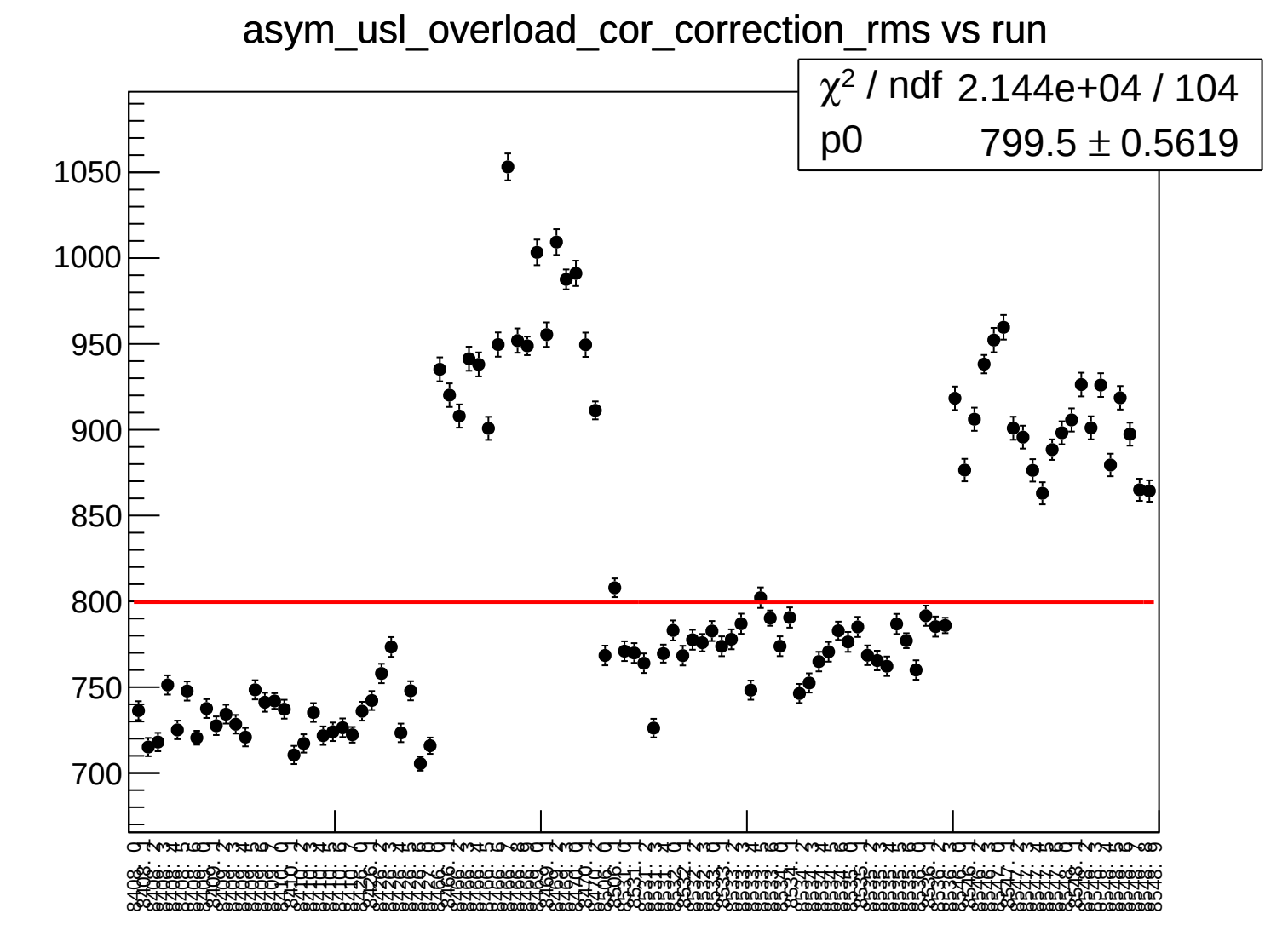

pull1D
Entries 105
Mean 0.01035
Std Dev 0.9402
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

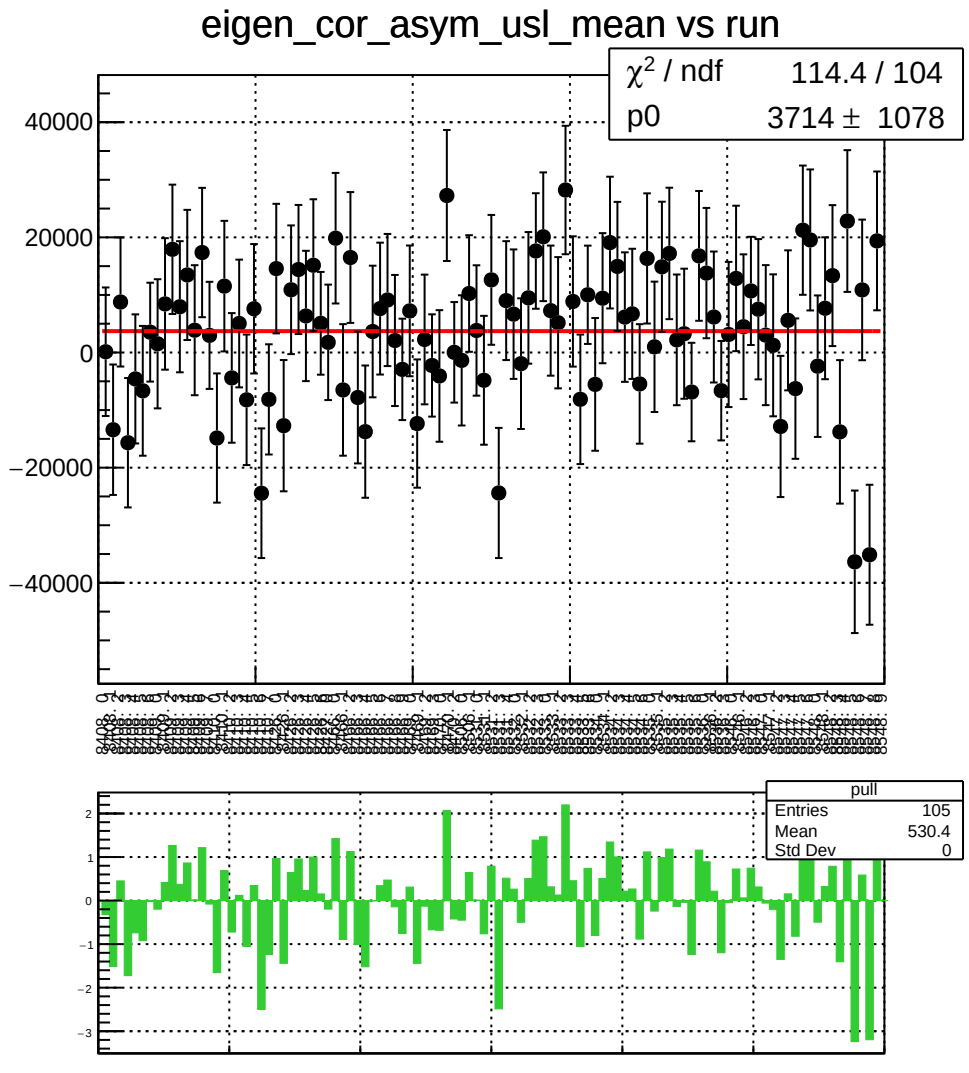

asym_usl_cor_correction_rms vs run
χ² / ndf 2.144e+04 / 104
p0 798.6 ± 0.5612
1050
1000
950
900
850
800
750
700

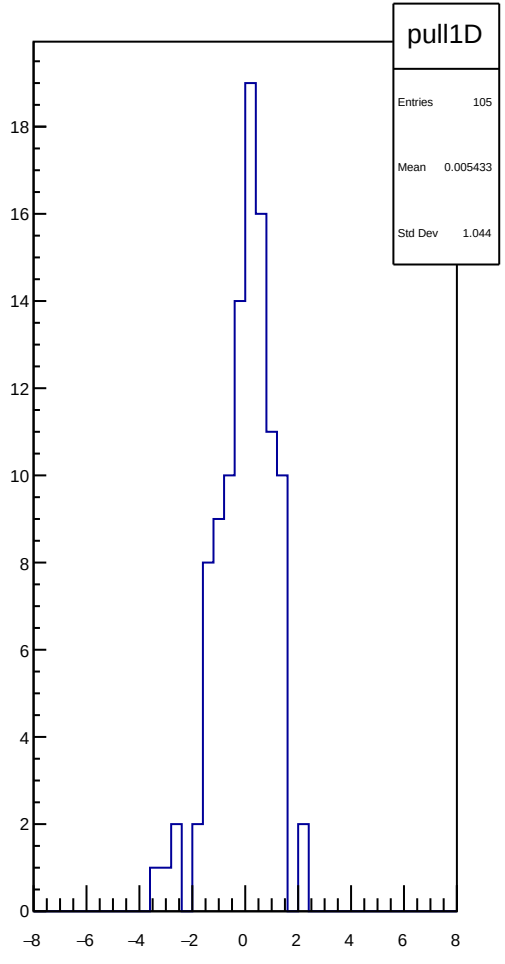

overload_cor_asym_usl_mean vs run
χ² / ndf 114.6 / 104
p0 3694 ± 1077
40000
20000
0
−20000
−40000
pull
Entries 105
Mean 529.7
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 105
Mean 0.005237
Std Dev 1.045
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

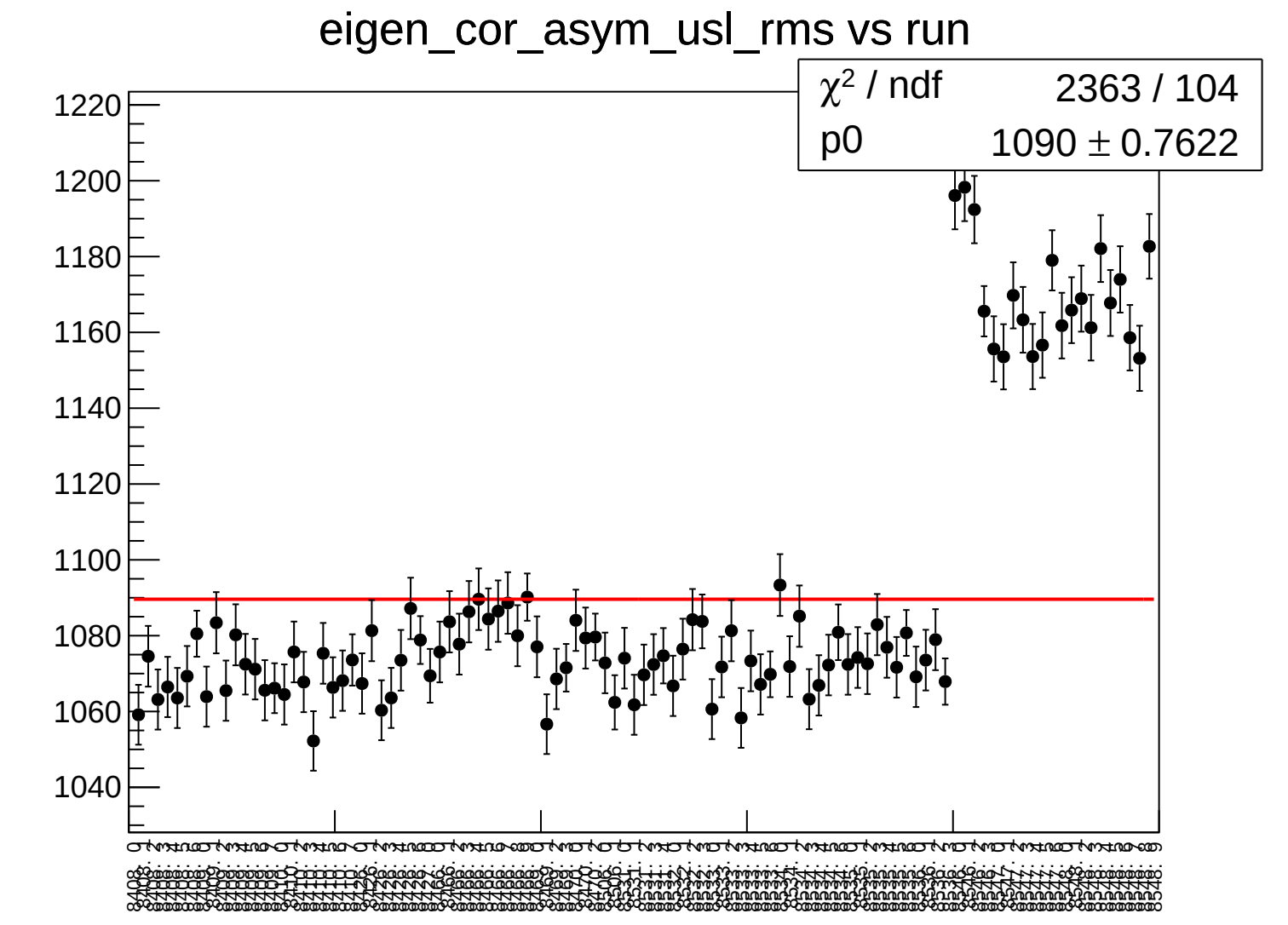

overload_cor_asym_usl_rms vs run
χ² / ndf 2348 / 104
p0 1089 ± 0.7617
1220
1200
1180
1160
1140
1120
1100
1080
1060
1040

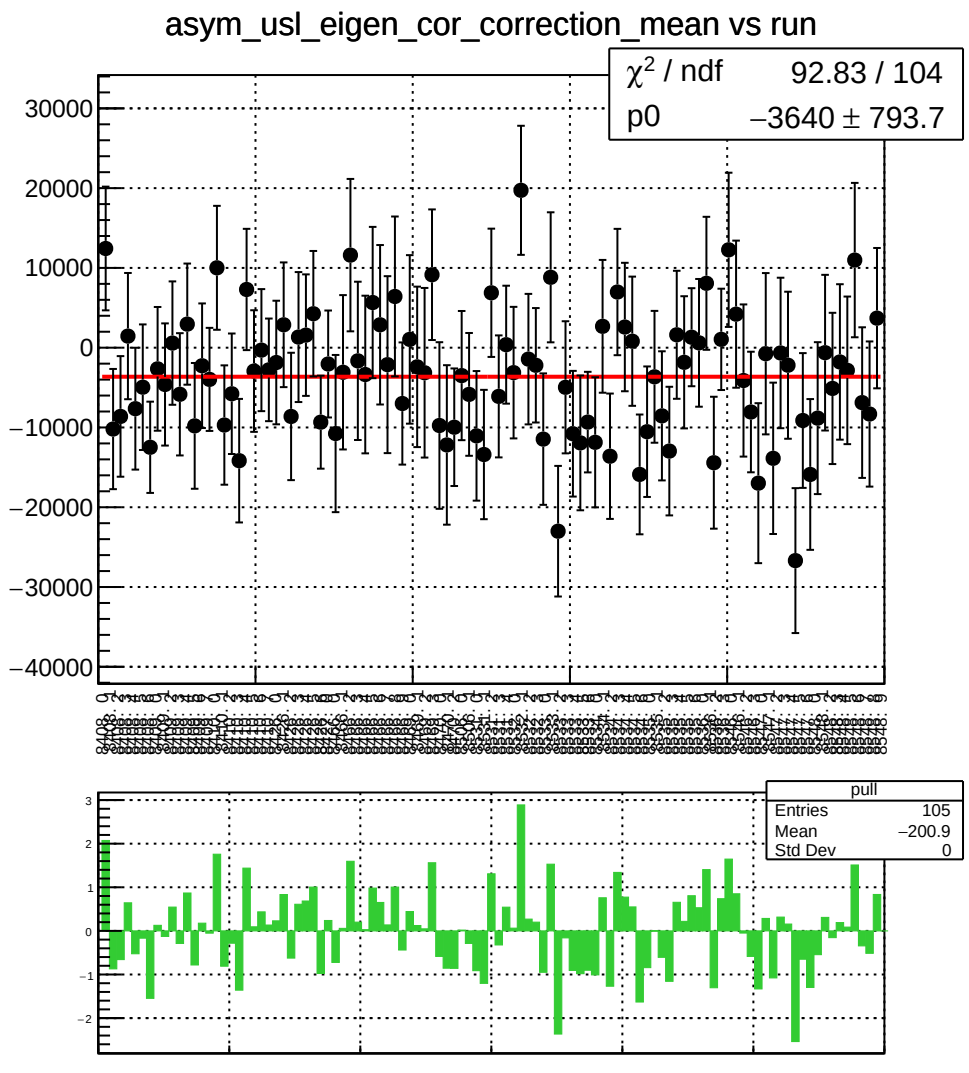

asym_usl_overload_cor_correction_mean vs run
χ² / ndf 92.25 / 104
p0 −3664 ± 794.6
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 105
Mean −216.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.01022
Std Dev 0.9373
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

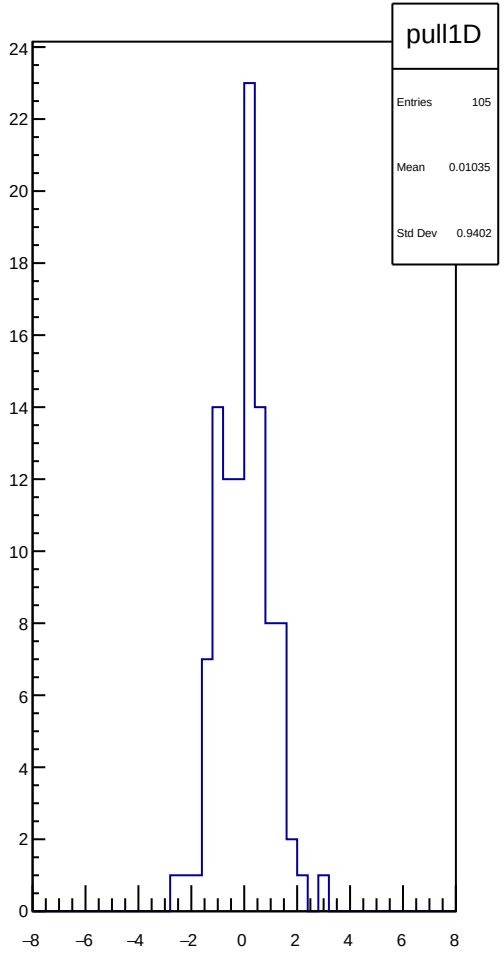

asym_usl_overload_cor_correction_rms vs run
χ² / ndf 2.144e+04 / 104
p0 799.5 ± 0.5619
1050
1000
950
900
850
800
750
700

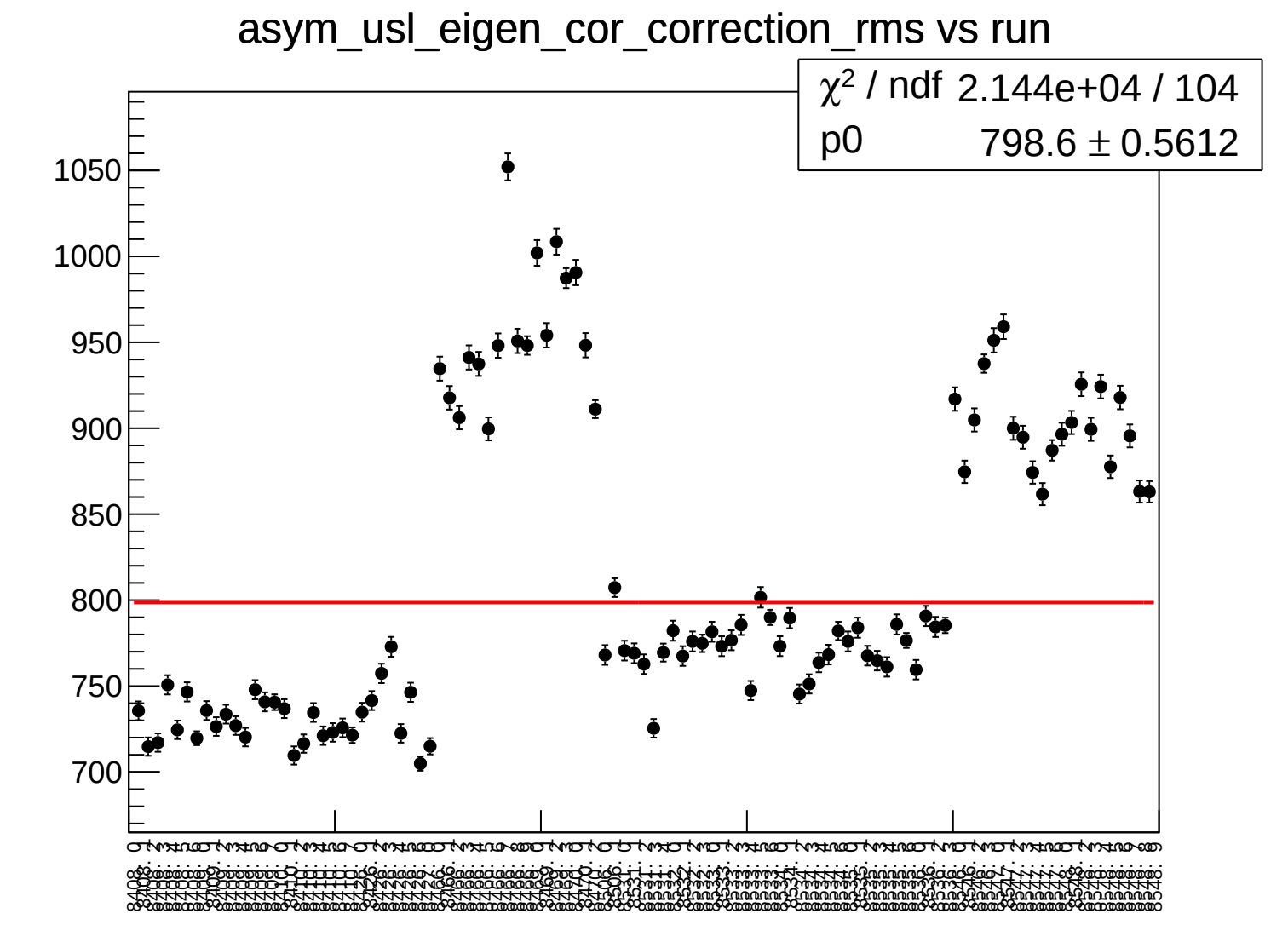

eigen_cor_asym_usl_mean vs run
χ² / ndf 114.4 / 104
p0 3714 ± 1078
40000
20000
0
−20000
−40000
pull
Entries 105
Mean 530.4
Std Dev 0
2
1
0
−1
−2
−3

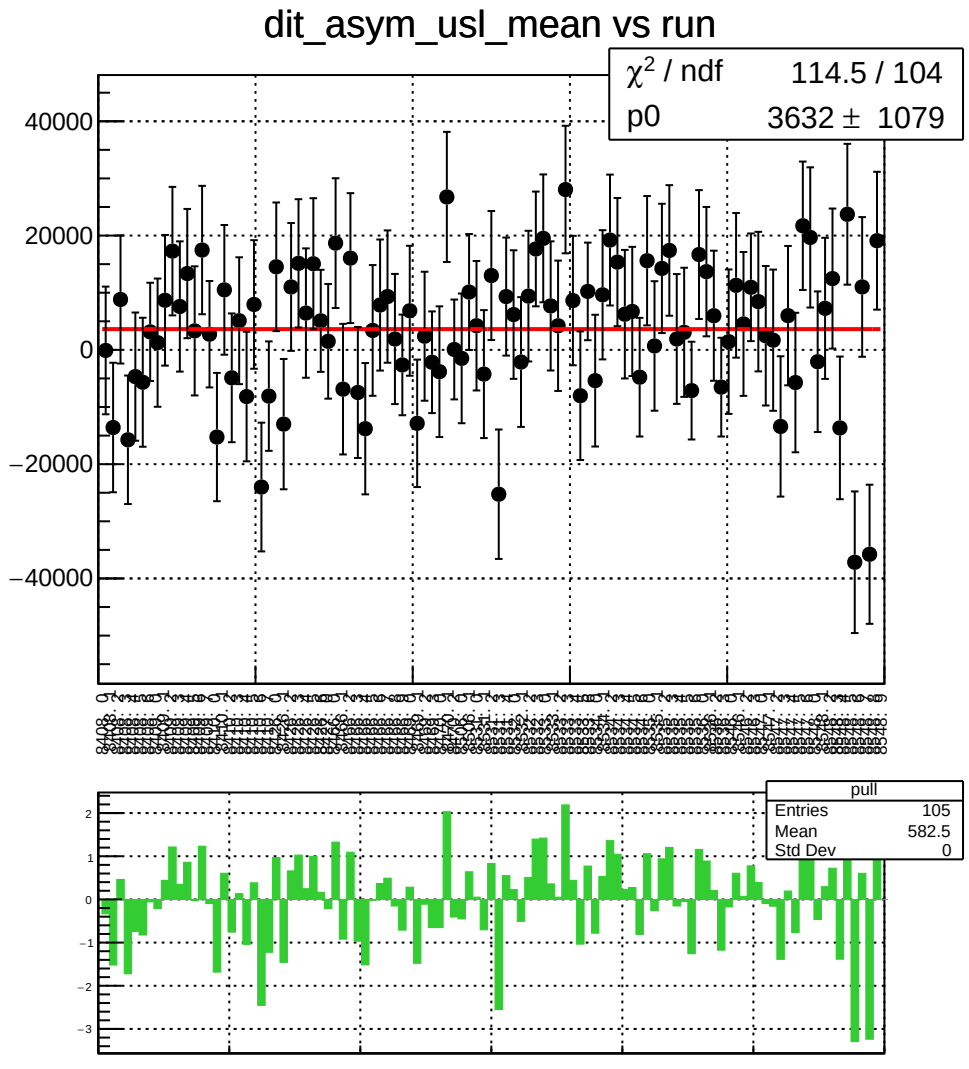

pull1D
Entries 105
Mean 0.005433
Std Dev 1.044
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

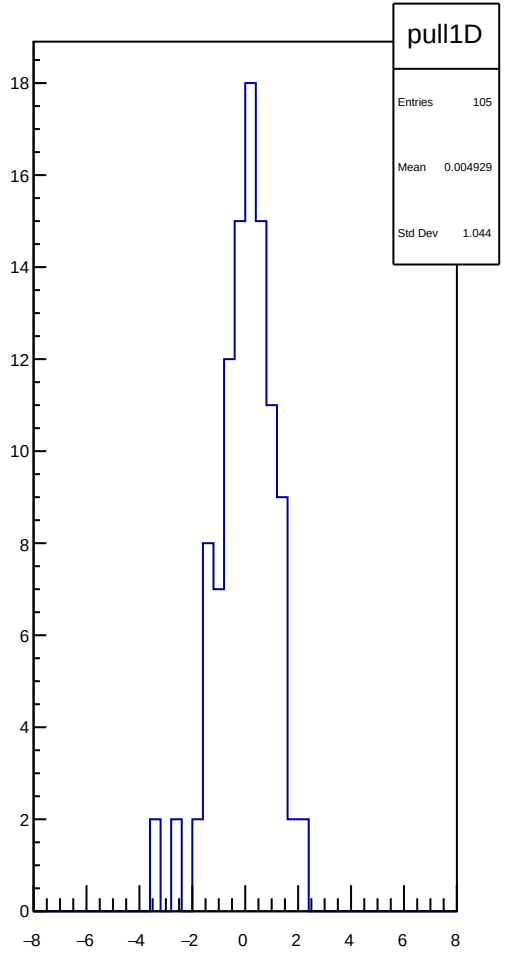

eigen_cor_asym_usl_rms vs run
χ² / ndf 2363 / 104
p0 1090 ± 0.7622
1220
1200
1180
1160
1140
1120
1100
1080
1060
1040

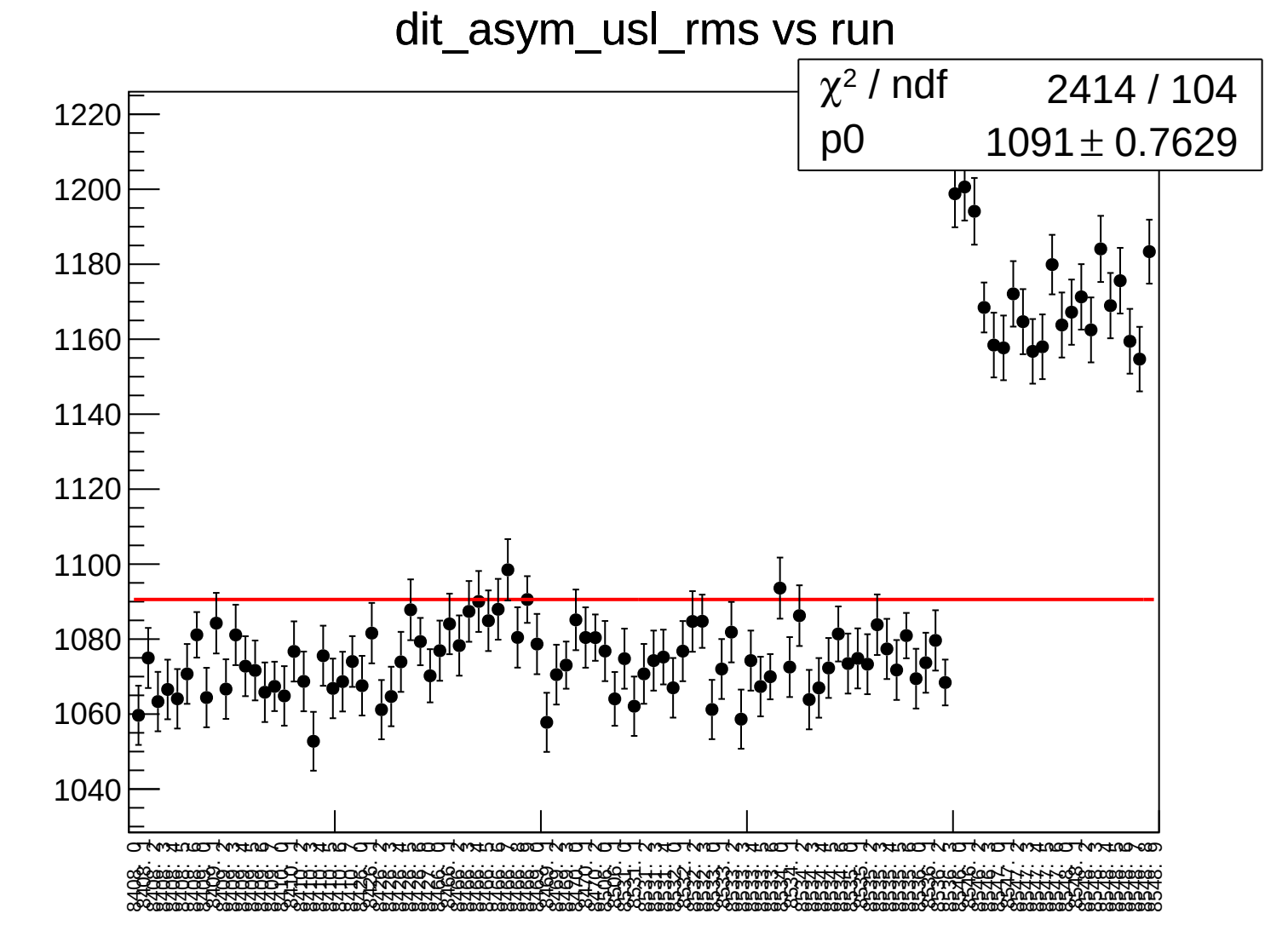

asym_usl_eigen_cor_correction_mean vs run
χ² / ndf 92.83 / 104
p0 −3640 ± 793.7
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 105
Mean −200.9
Std Dev 0
3
2
1
0
−1
−2

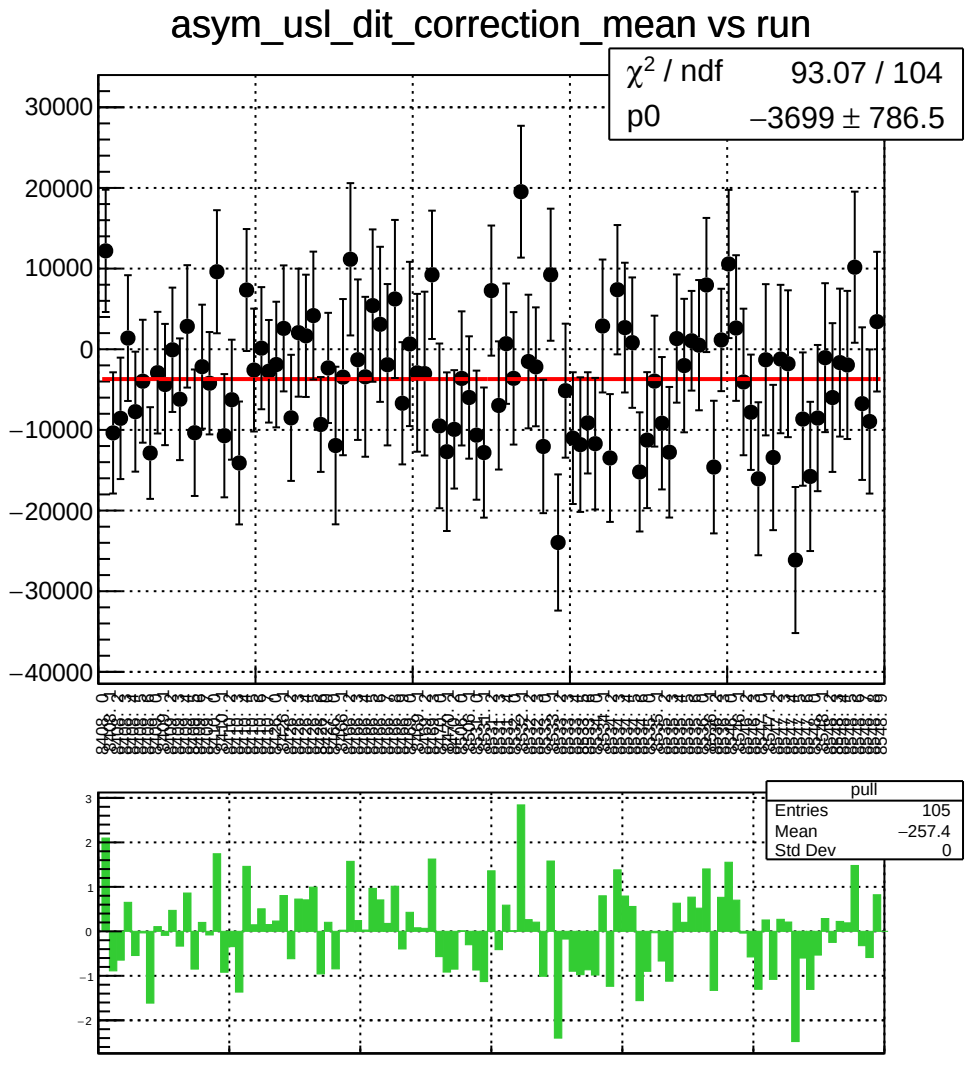

pull1D
Entries 105
Mean 0.01035
Std Dev 0.9402
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

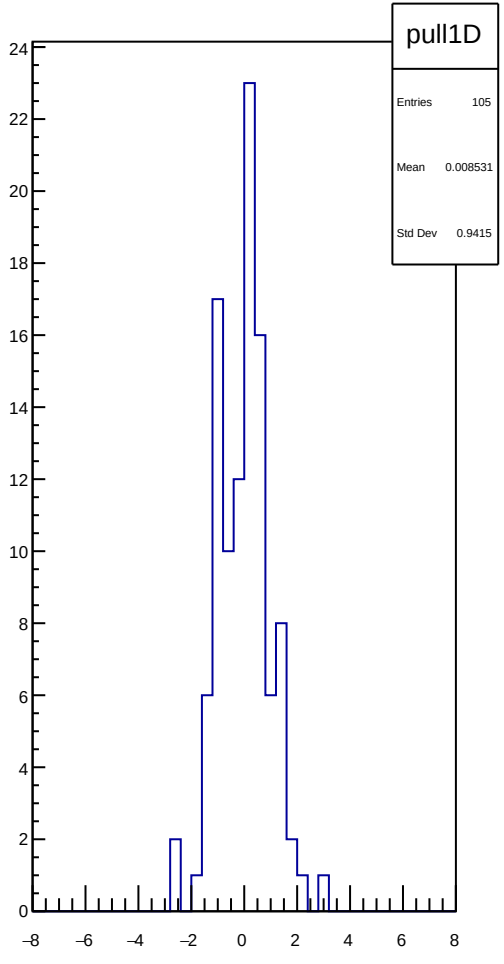

asym_usl_eigen_cor_correction_rms vs run
χ² / ndf 2.144e+04 / 104
p0 798.6 ± 0.5612
1050
1000
950
900
850
800
750
700

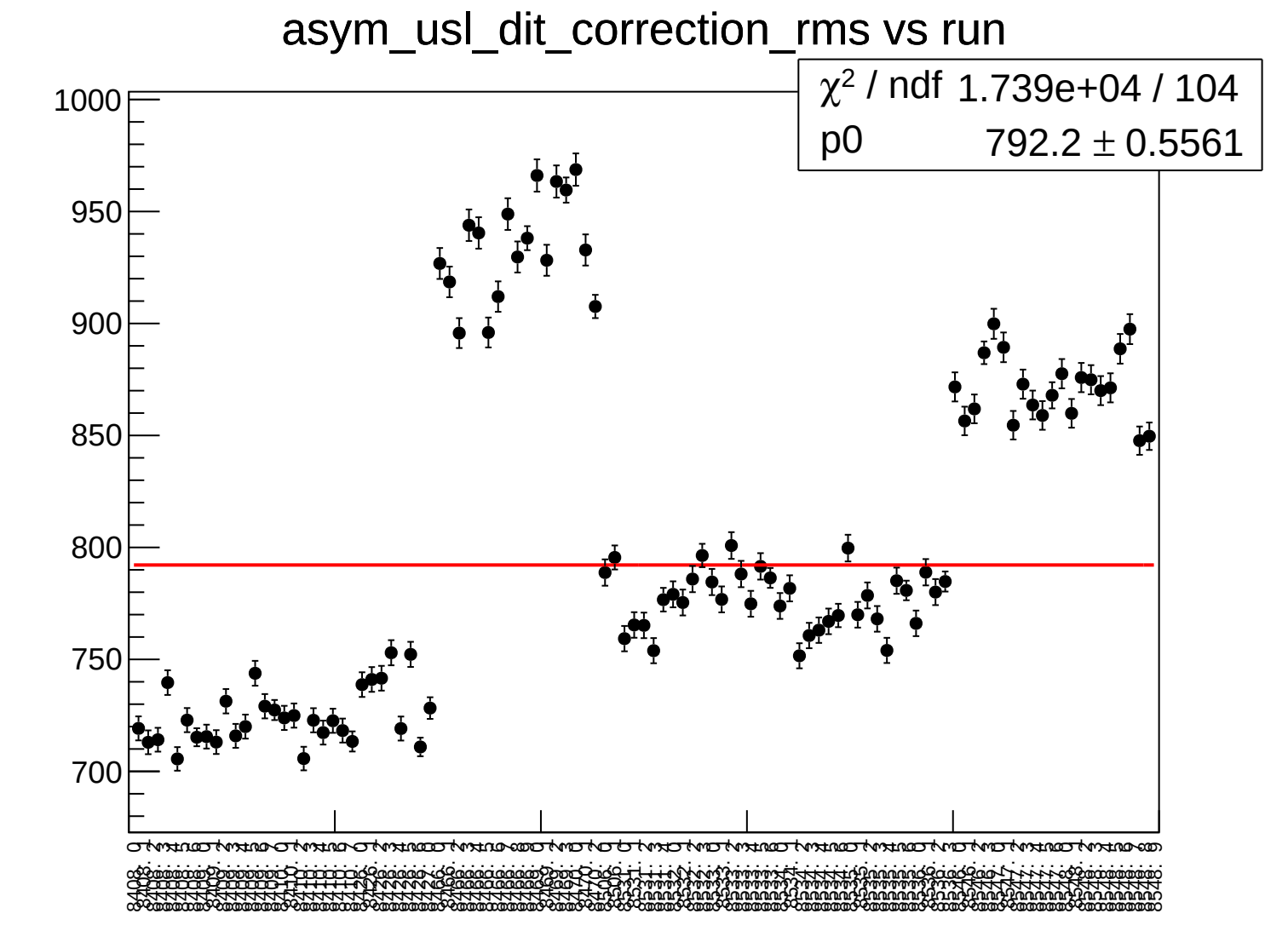

dit_asym_usl_mean vs run
χ² / ndf 114.5 / 104
p0 3632 ± 1079
40000
20000
0
−20000
−40000
pull
Entries 105
Mean 582.5
Std Dev 0
2
1
0
−1
−2
−3

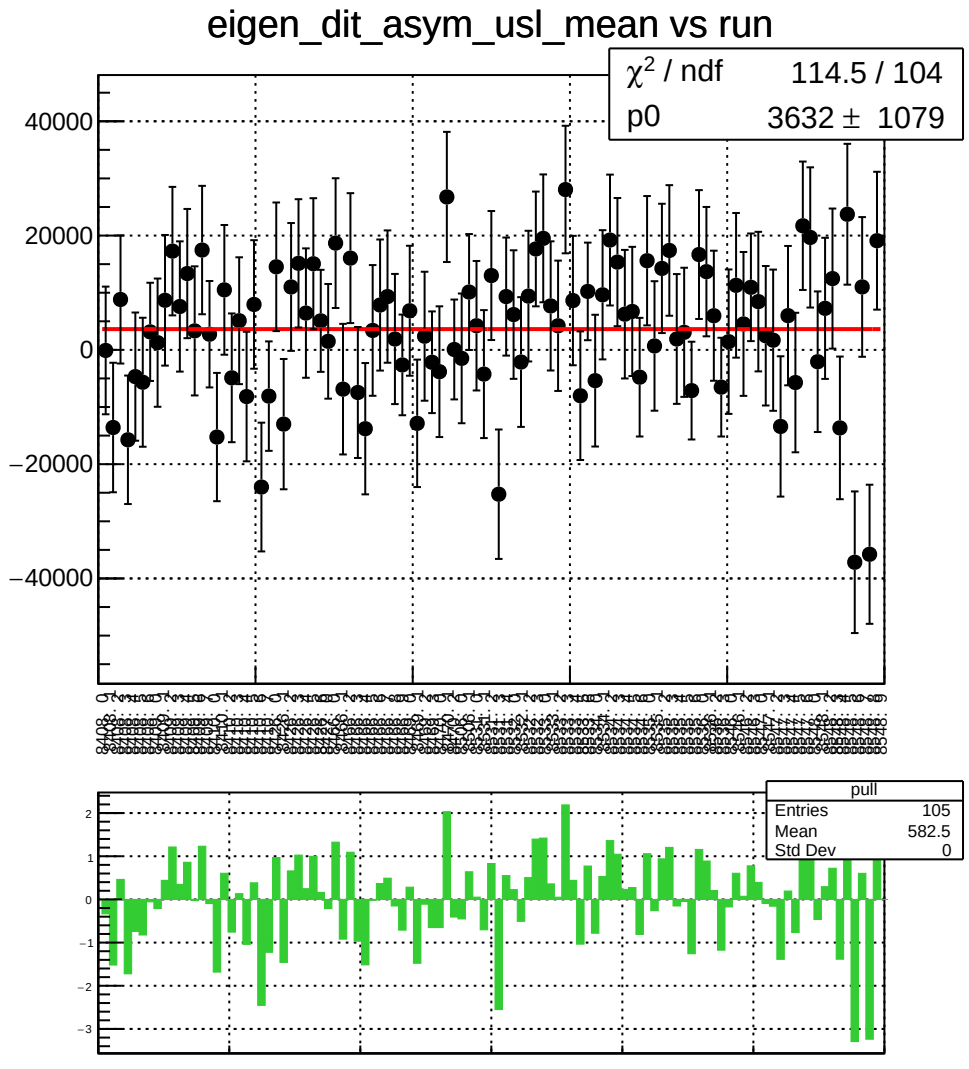

pull1D
Entries 105
Mean 0.004929
Std Dev 1.044
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

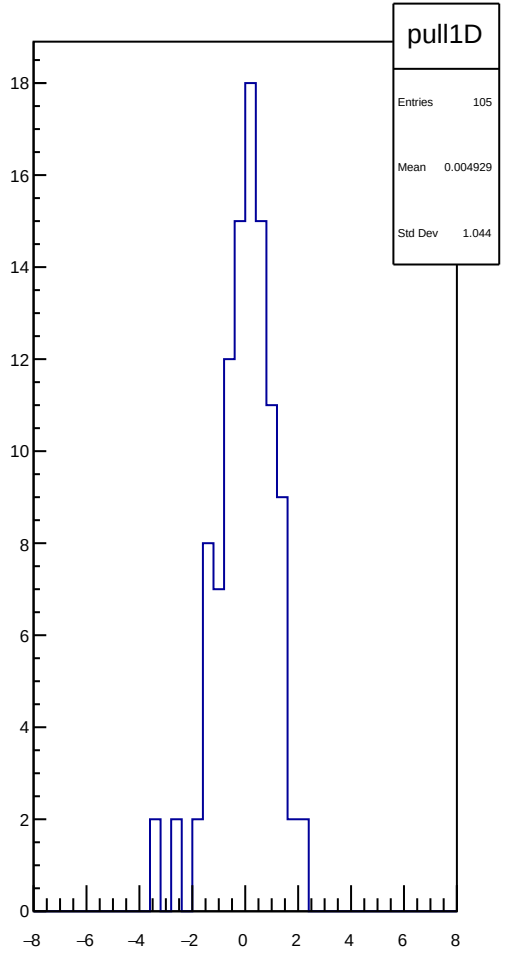

dit_asym_usl_rms vs run
χ² / ndf 2414 / 104
p0 1091 ± 0.7629
1220
1200
1180
1160
1140
1120
1100
1080
1060
1040

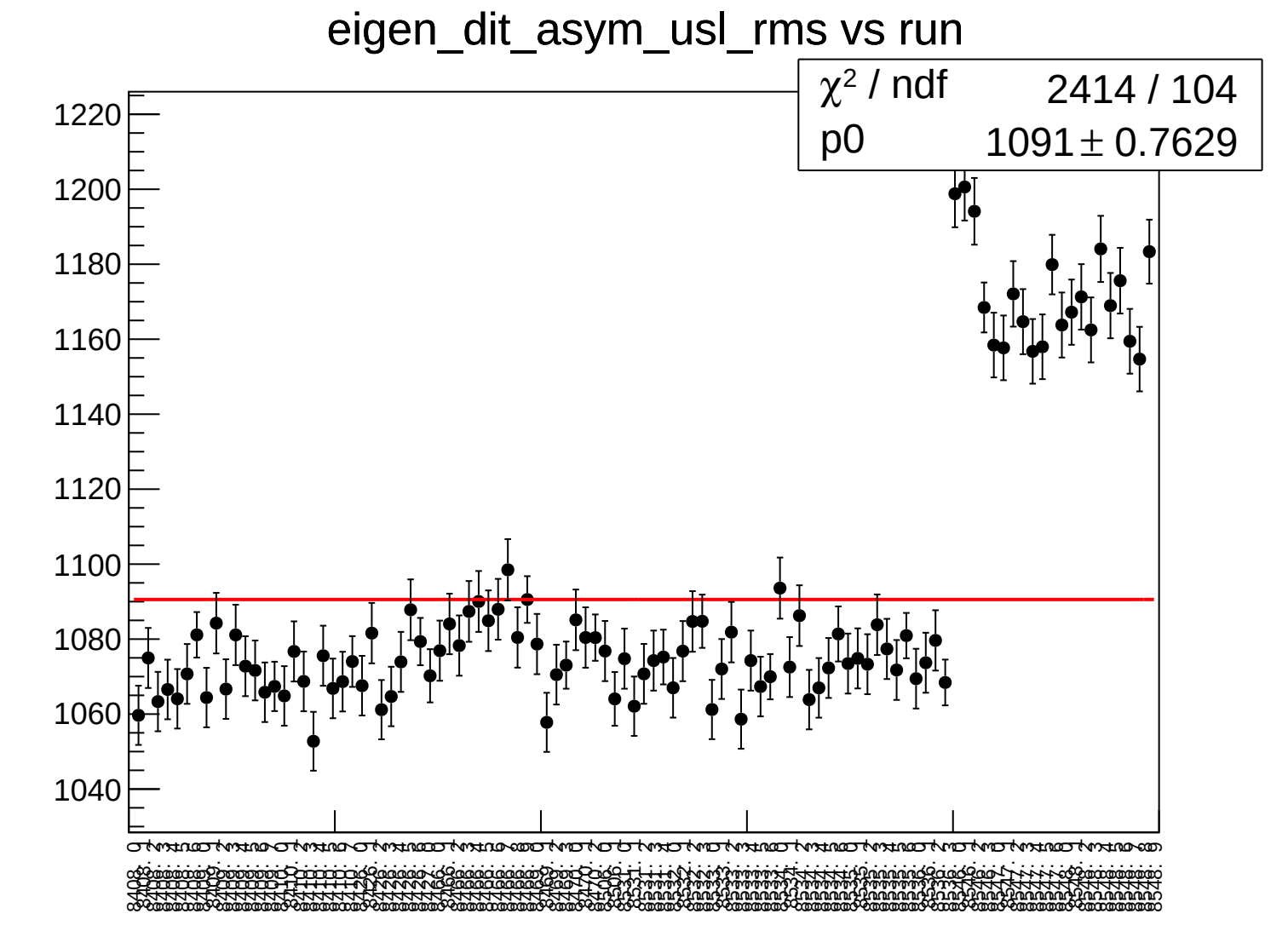

asym_usl_dit_correction_mean vs run
χ² / ndf 93.07 / 104
p0 −3699 ± 786.5
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 105
Mean −257.4
Std Dev 0
3
2
1
0
−1
−2

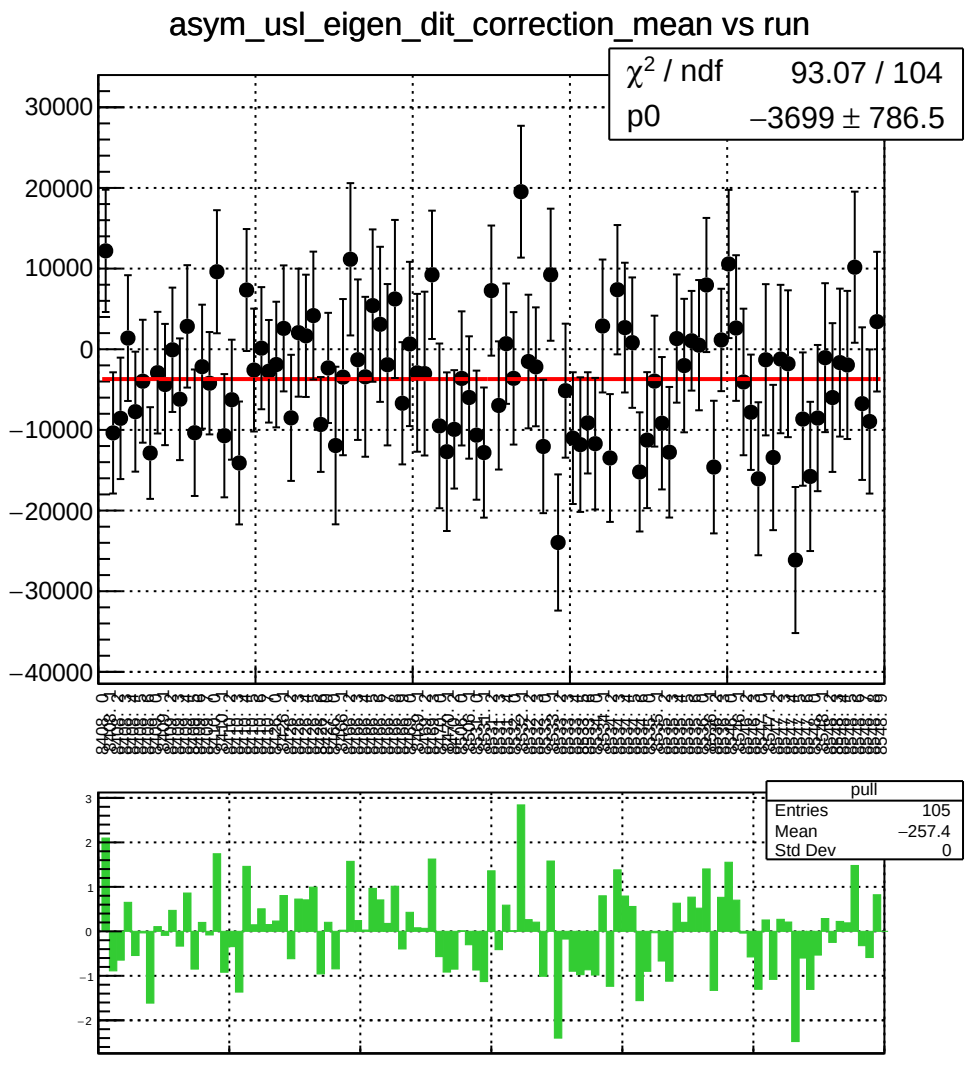

pull1D
Entries 105
Mean 0.008531
Std Dev 0.9415
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

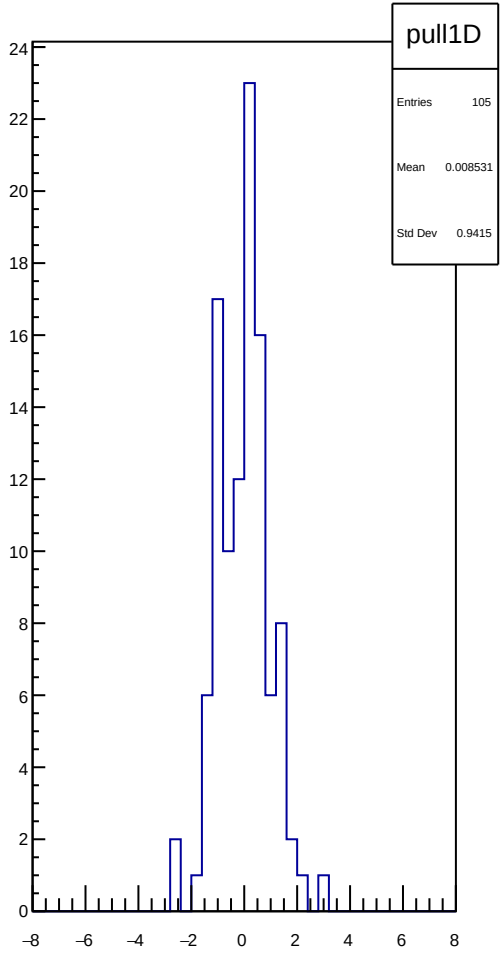

asym_usl_dit_correction_rms vs run
χ² / ndf 1.739e+04 / 104
p0 792.2 ± 0.5561
1000
950
900
850
800
750
700

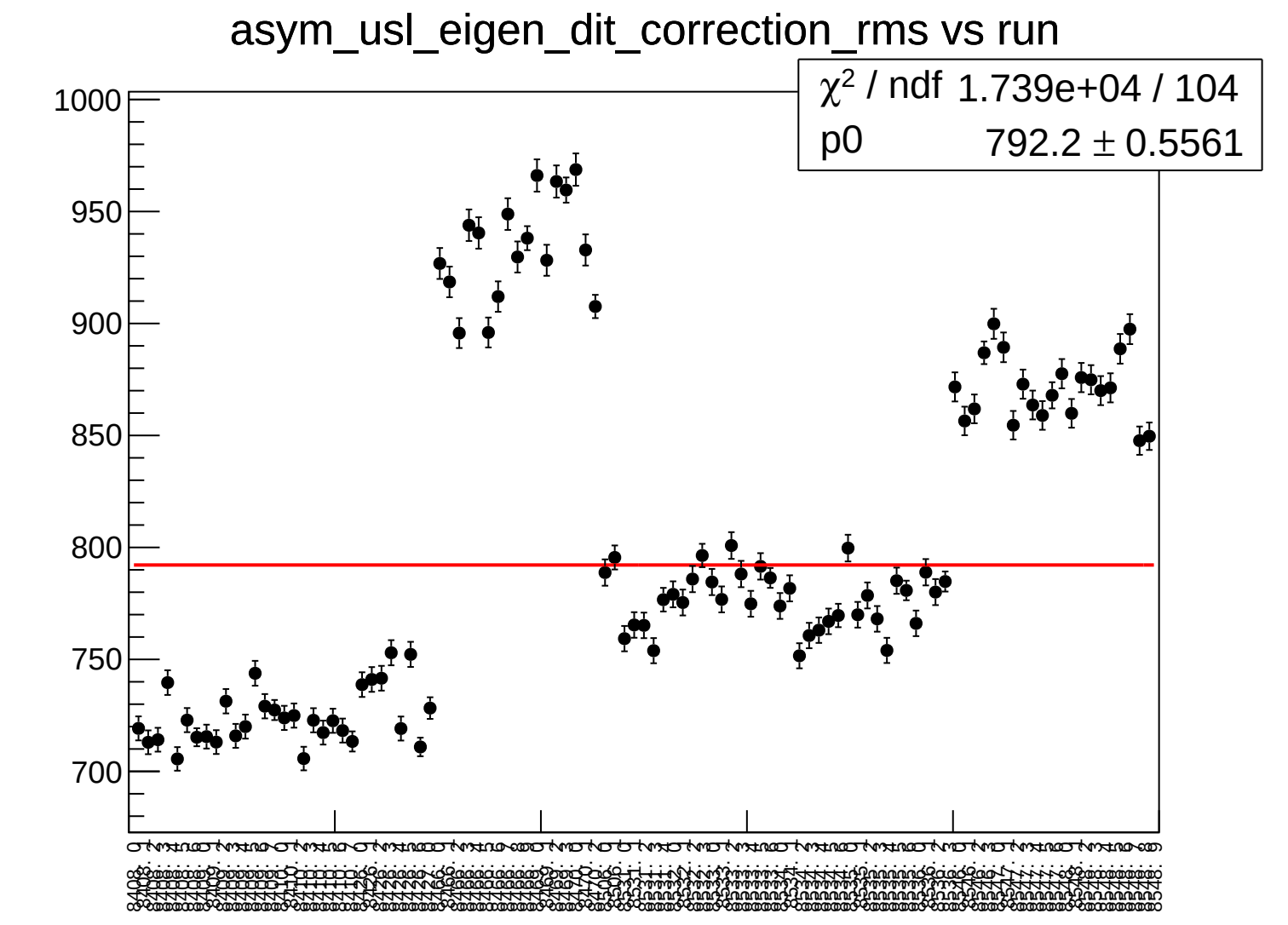

eigen_dit_asym_usl_mean vs run
χ² / ndf 114.5 / 104
p0 3632 ± 1079
40000
20000
0
−20000
−40000
pull
Entries 105
Mean 582.5
Std Dev 0
2
1
0
−1
−2
−3

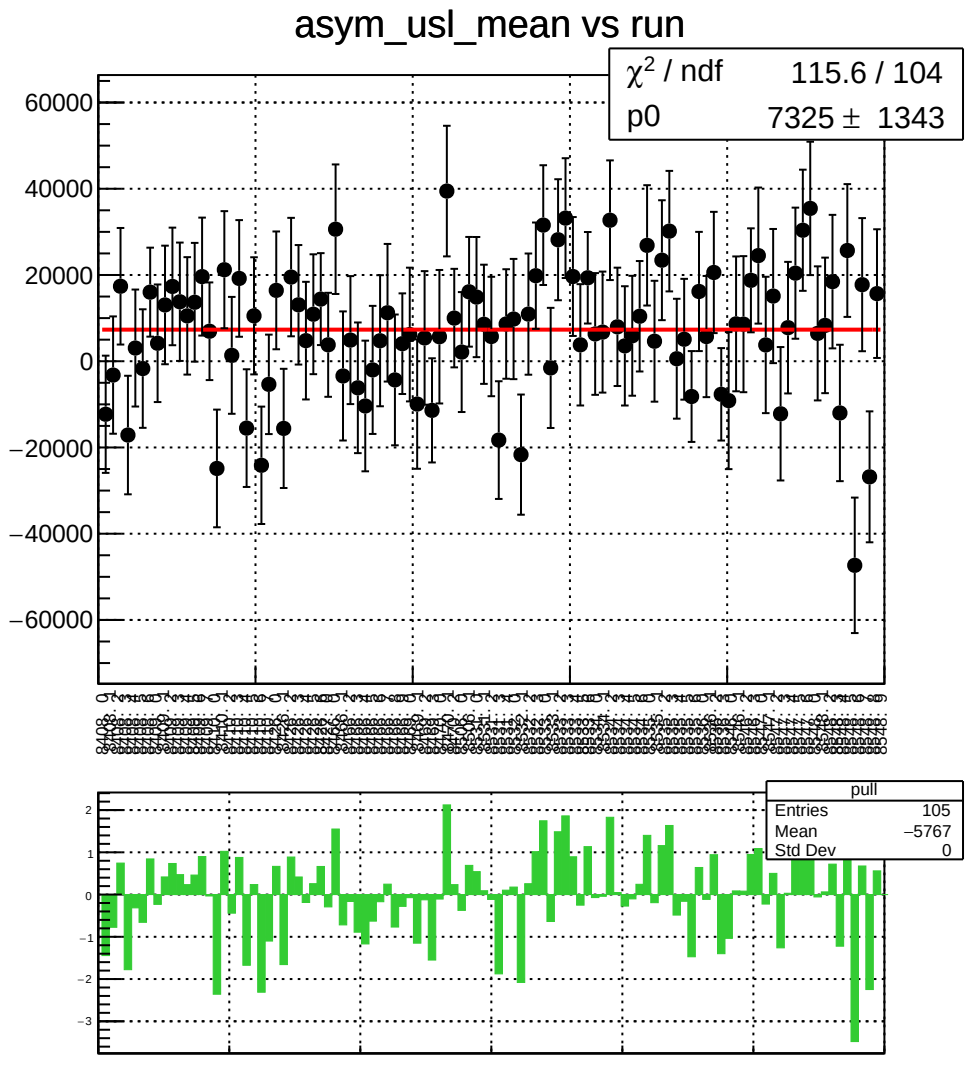

pull1D
Entries 105
Mean 0.004929
Std Dev 1.044
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

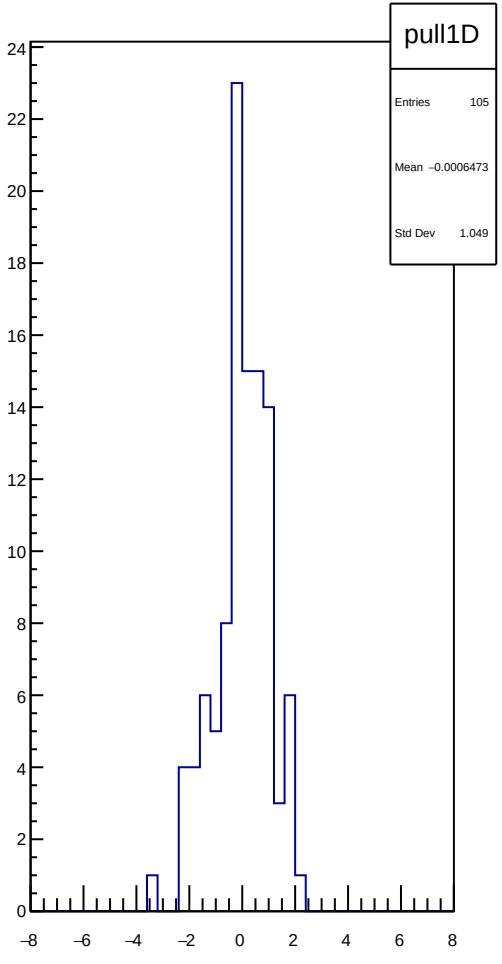

eigen_dit_asym_usl_rms vs run
χ² / ndf 2414 / 104
p0 1091 ± 0.7629
1220
1200
1180
1160
1140
1120
1100
1080
1060
1040

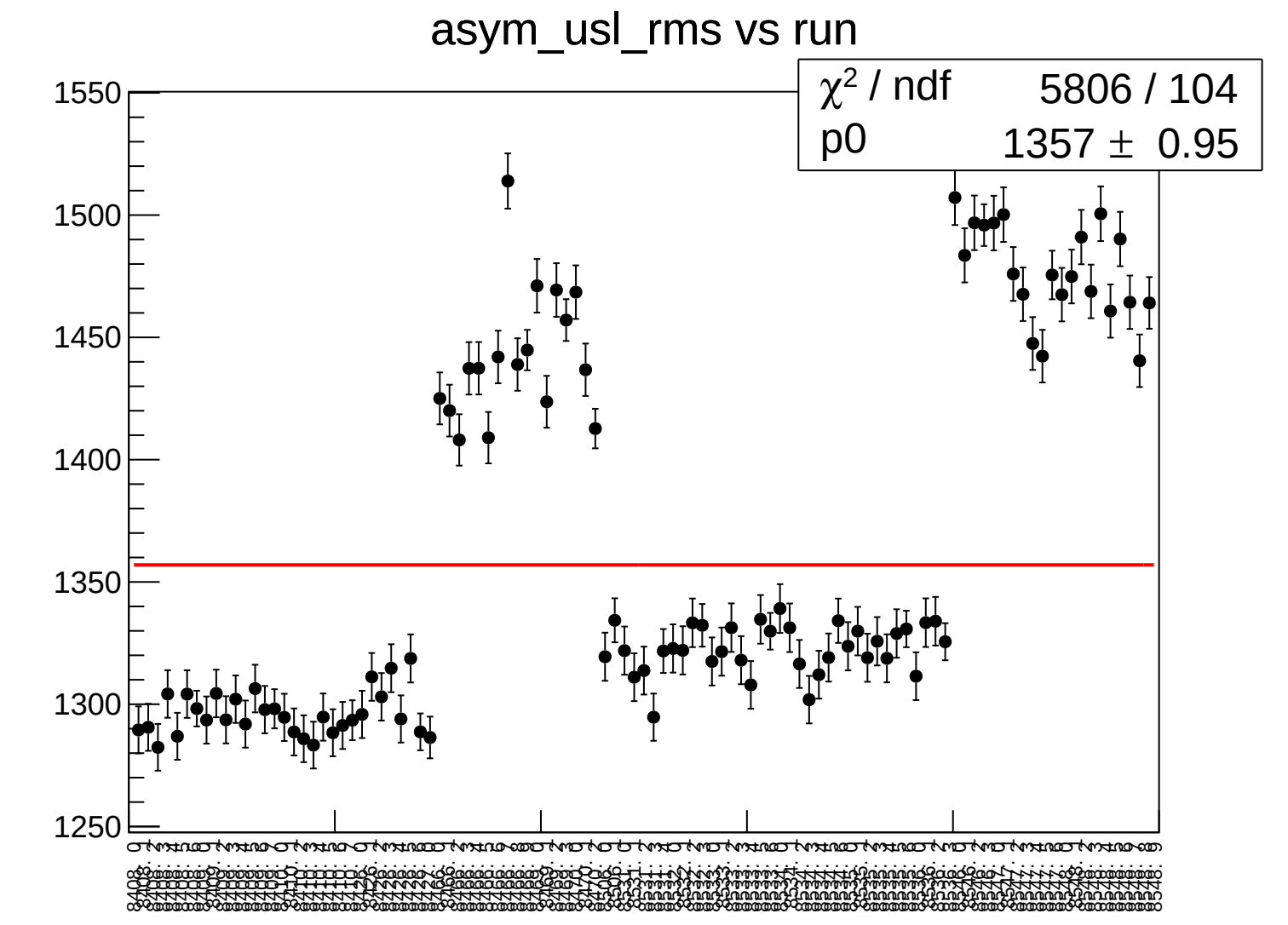

asym_usl_eigen_dit_correction_mean vs run
χ² / ndf 93.07 / 104
p0 −3699 ± 786.5
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 105
Mean −257.4
Std Dev 0
3
2
1
0
−1
−2

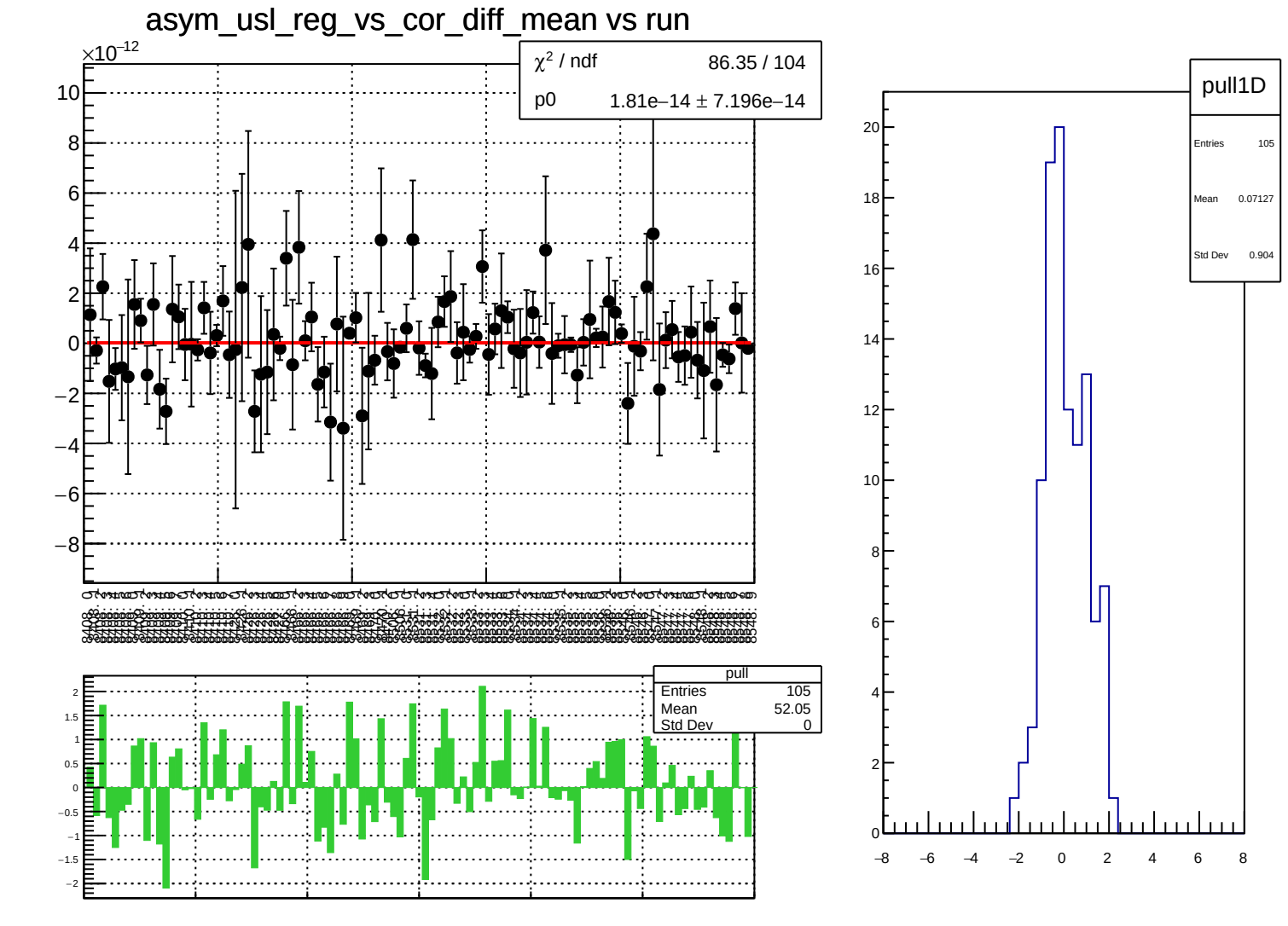

pull1D
Entries 105
Mean 0.008531
Std Dev 0.9415
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

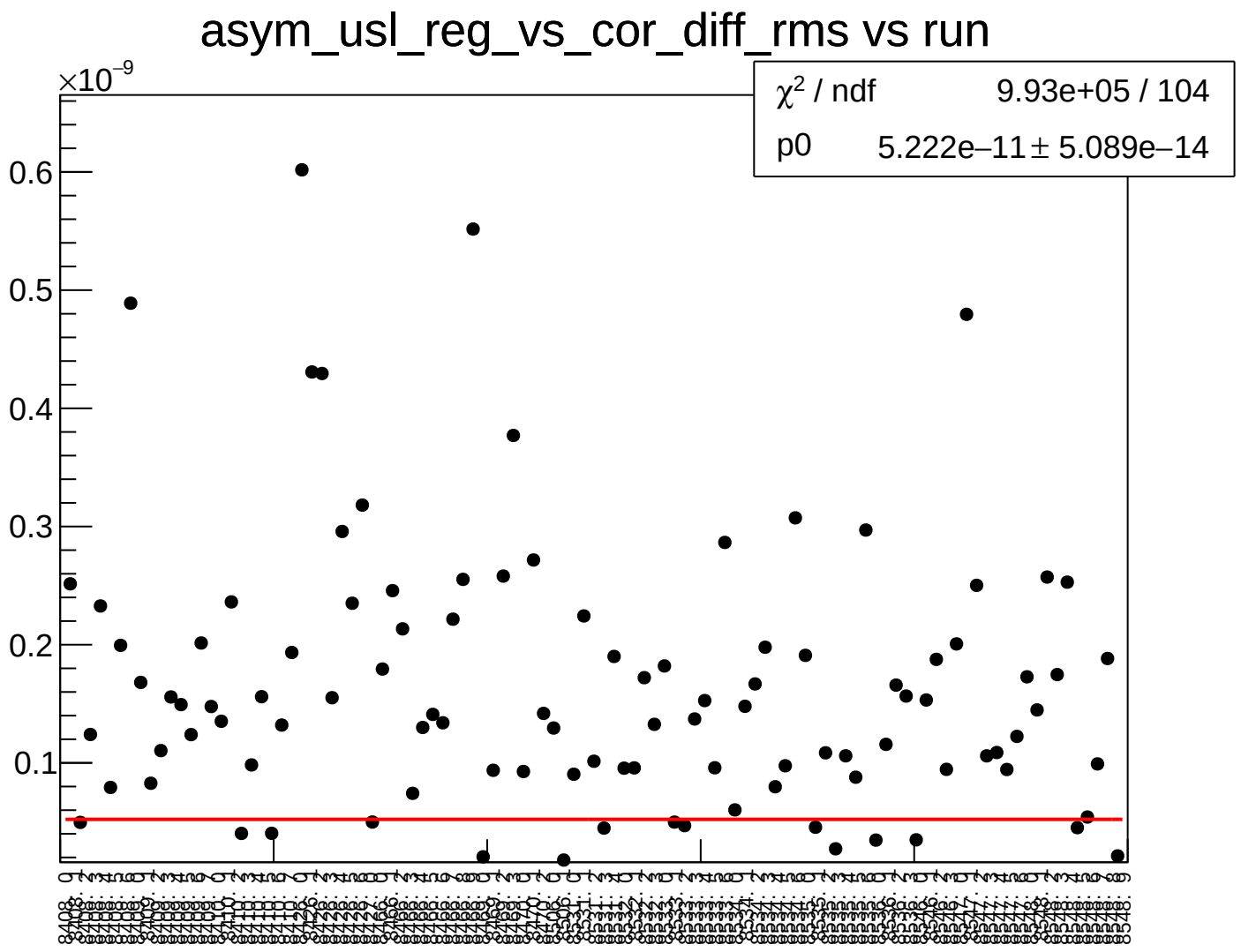

asym_usl_eigen_dit_correction_rms vs run
χ² / ndf 1.739e+04 / 104
p0 792.2 ± 0.5561
1000
950
900
850
800
750
700

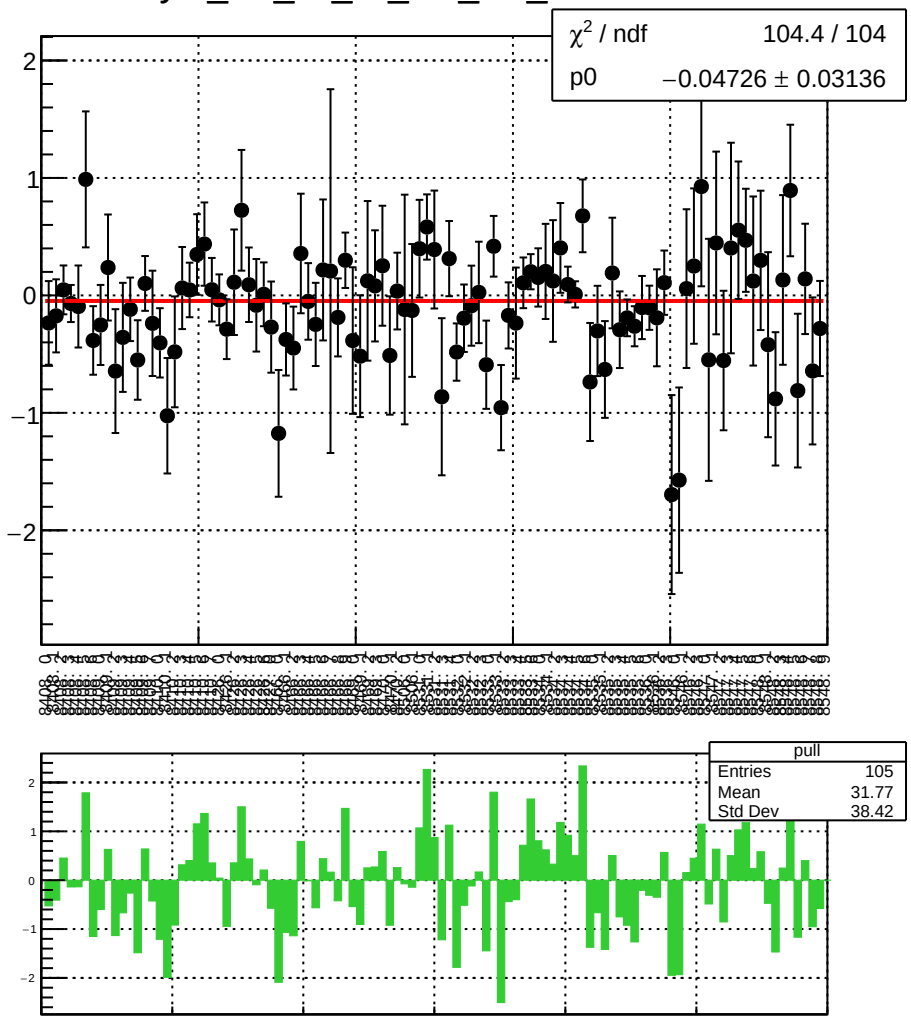

asym_usl_mean vs run
χ² / ndf 115.6 / 104
p0 7325 ± 1343
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean −5767
Std Dev 0
2
1
0
−1
−2
−3

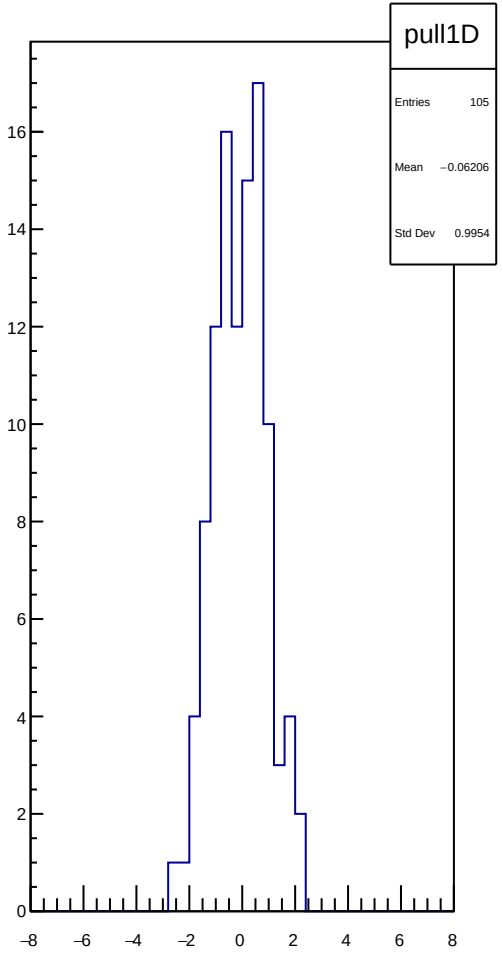

pull1D
Entries 105
Mean −0.0006473
Std Dev 1.049
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

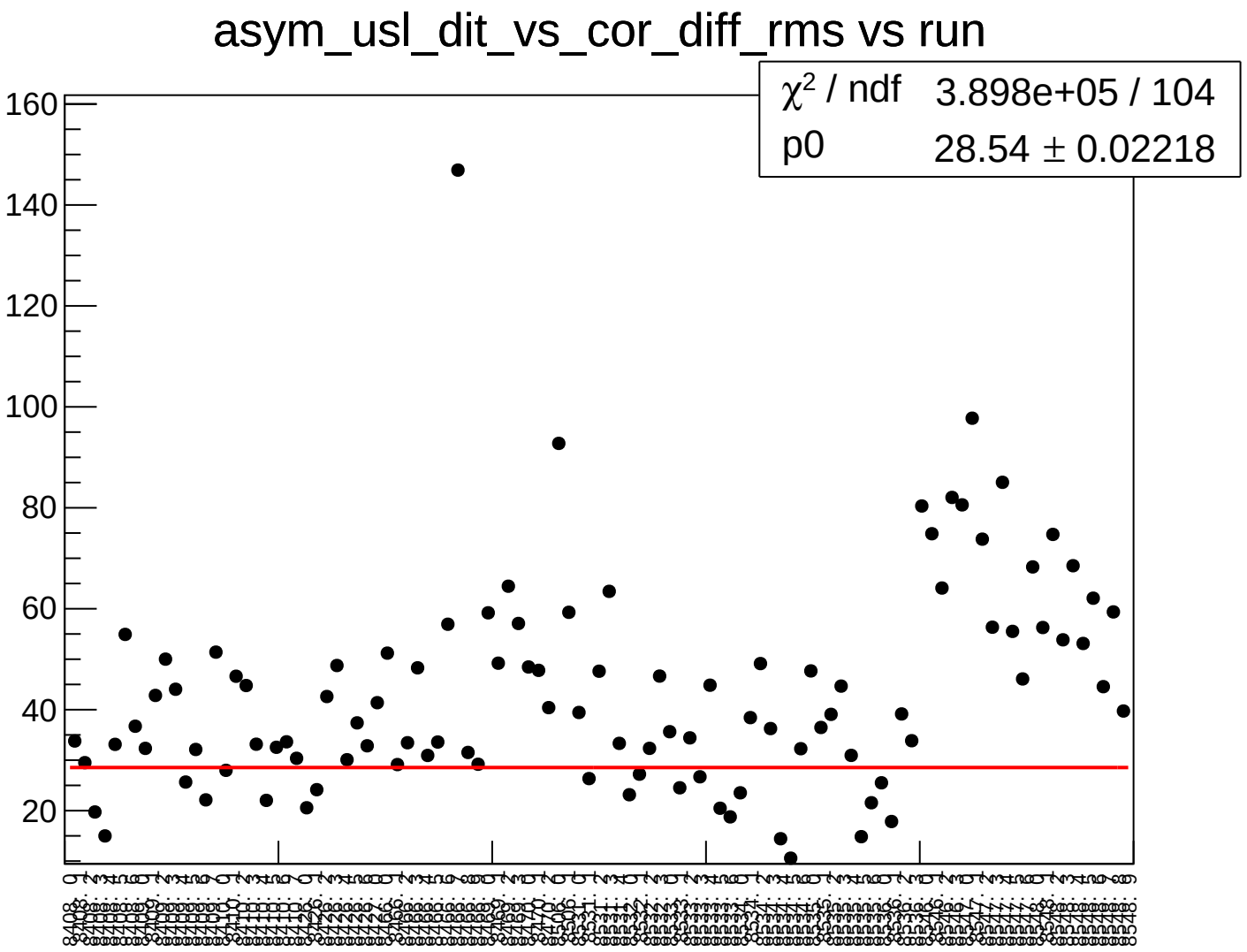

asym_usl_rms vs run
χ² / ndf 5806 / 104
p0 1357 ± 0.95
1550
1500
1450
1400
1350
1300
1250

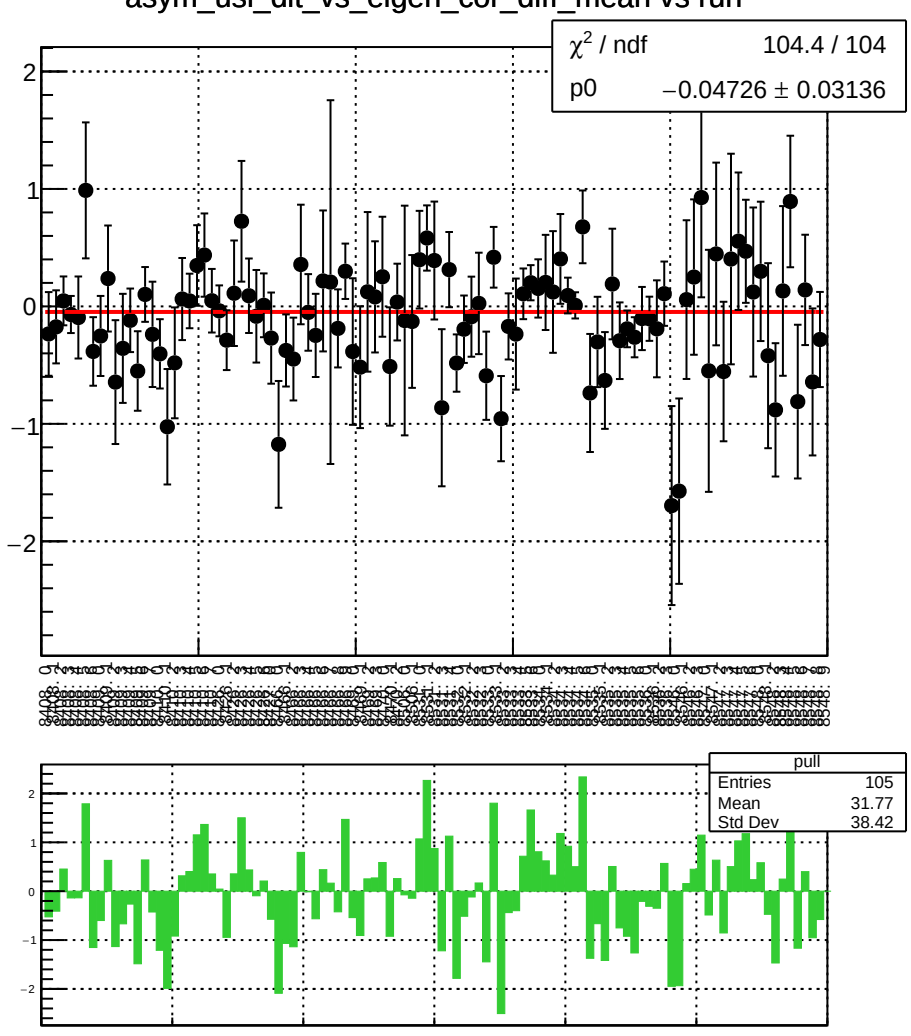

asym_usl_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 86.35 / 104
p0 1.81e−14 ± 7.196e−14
pull
Entries 105
Mean 52.05
Std Dev 0
pull1D
Entries 105
Mean 0.07127
Std Dev 0.904

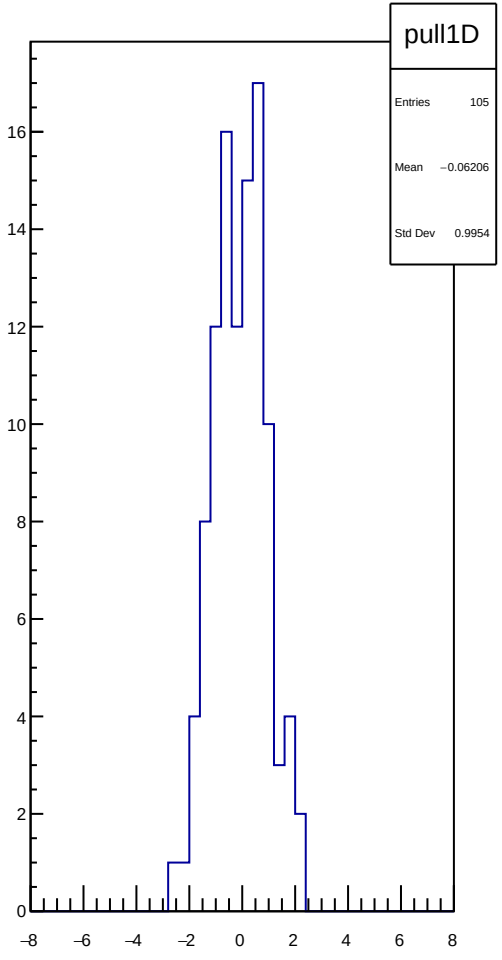

asym_usl_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.93e+05 / 104
p0 5.222e−11 ± 5.089e−14
0.6
0.5
0.4
0.3
0.2
0.1

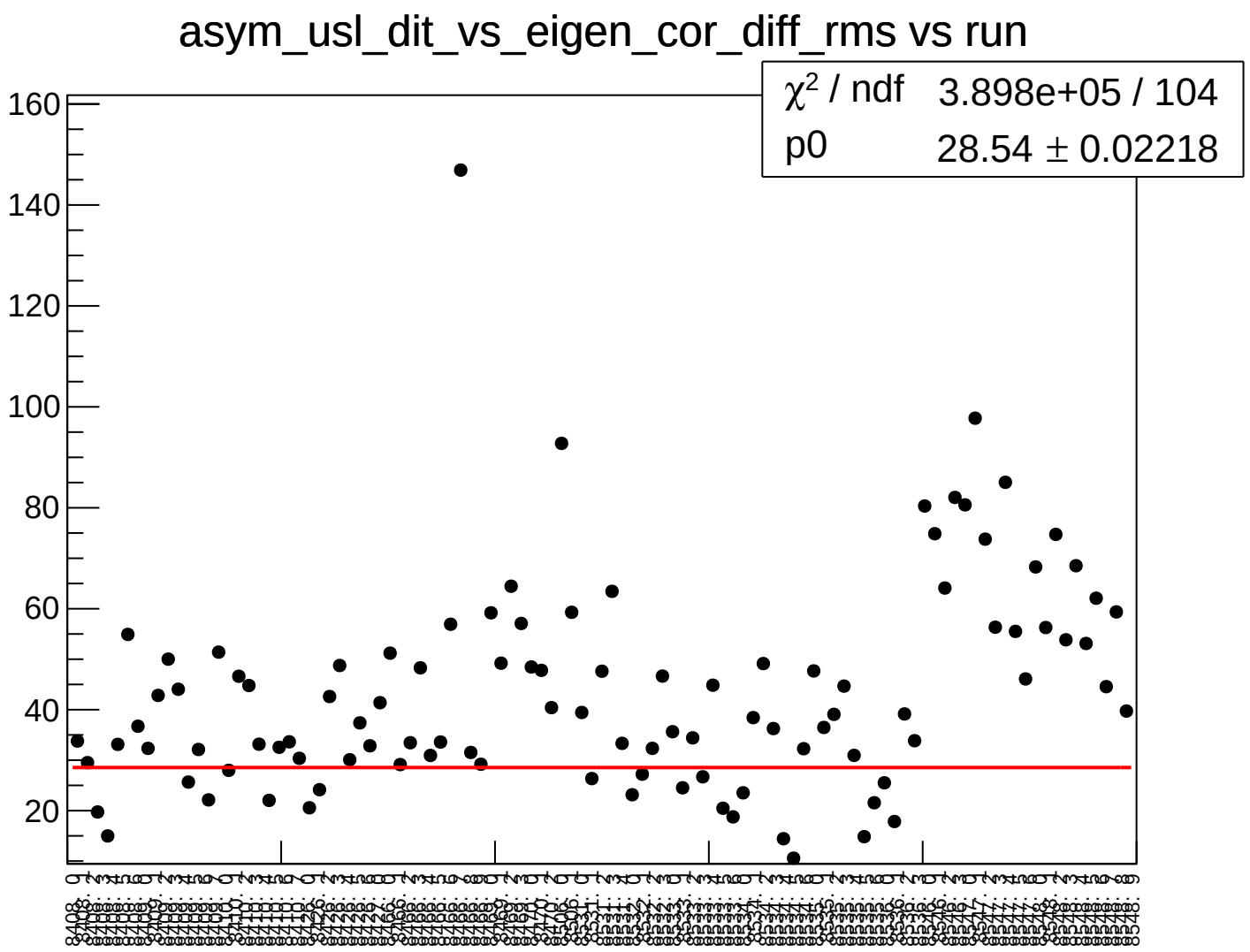

asym_usl_dit_vs_cor_diff_mean vs run
χ² / ndf 104.4 / 104
p0 −0.04726 ± 0.03136
pull
Entries 105
Mean 31.77
Std Dev 38.42

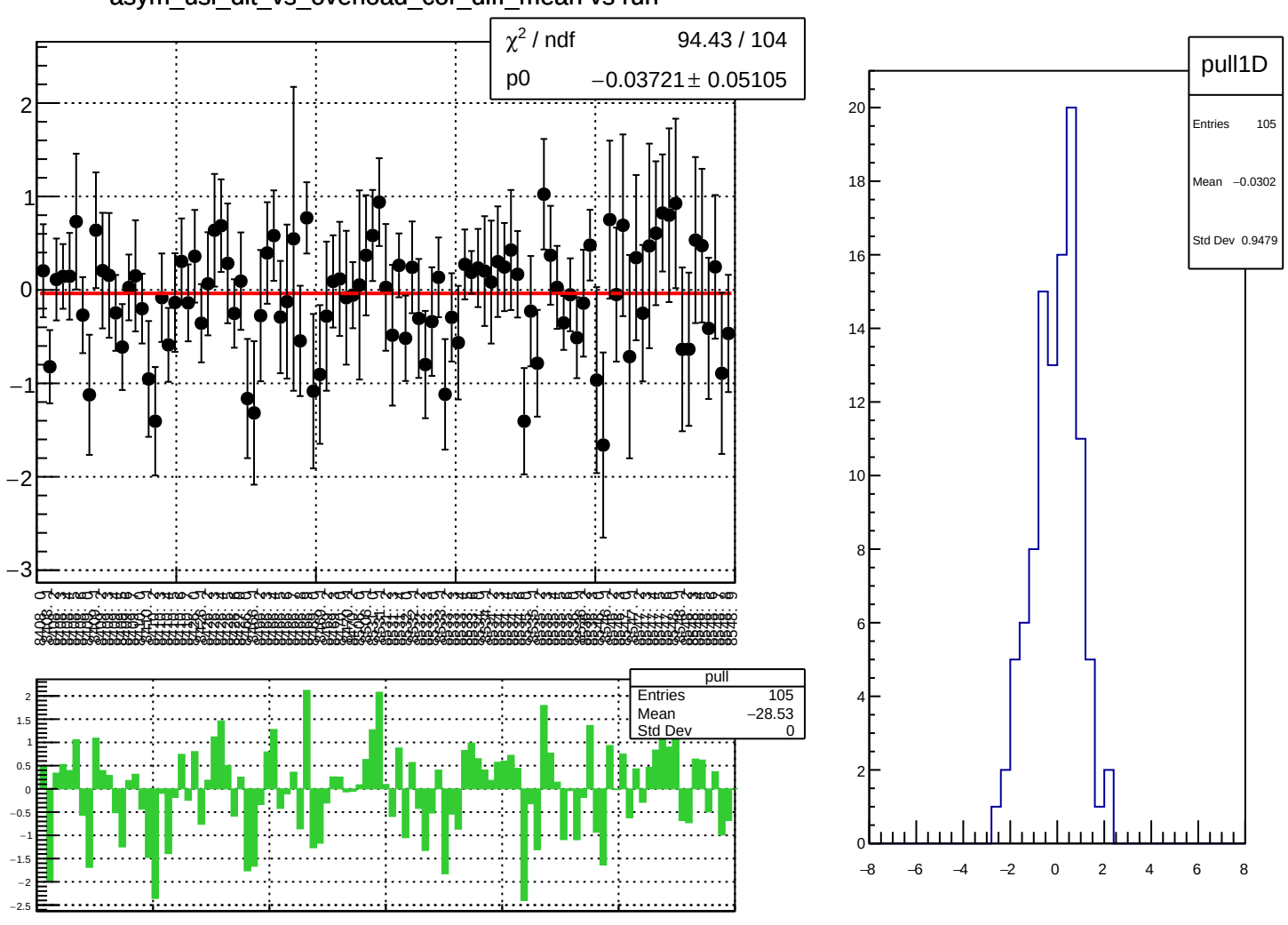

pull1D
Entries 105
Mean −0.06206
Std Dev 0.9954

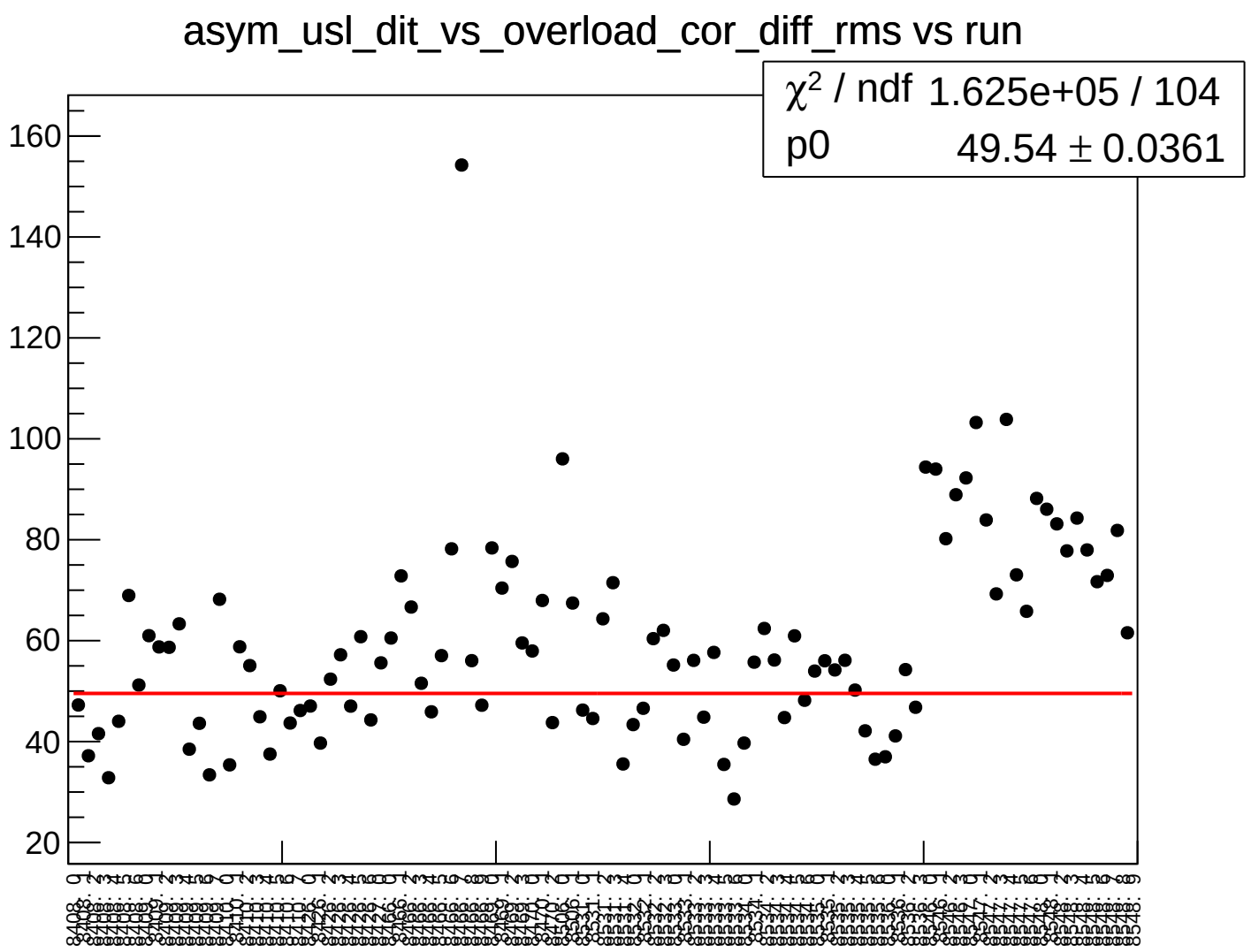

asym_usl_dit_vs_cor_diff_rms vs run
χ² / ndf 3.898e+05 / 104
p0 28.54 ± 0.02218
160
140
120
100
80
60
40
20

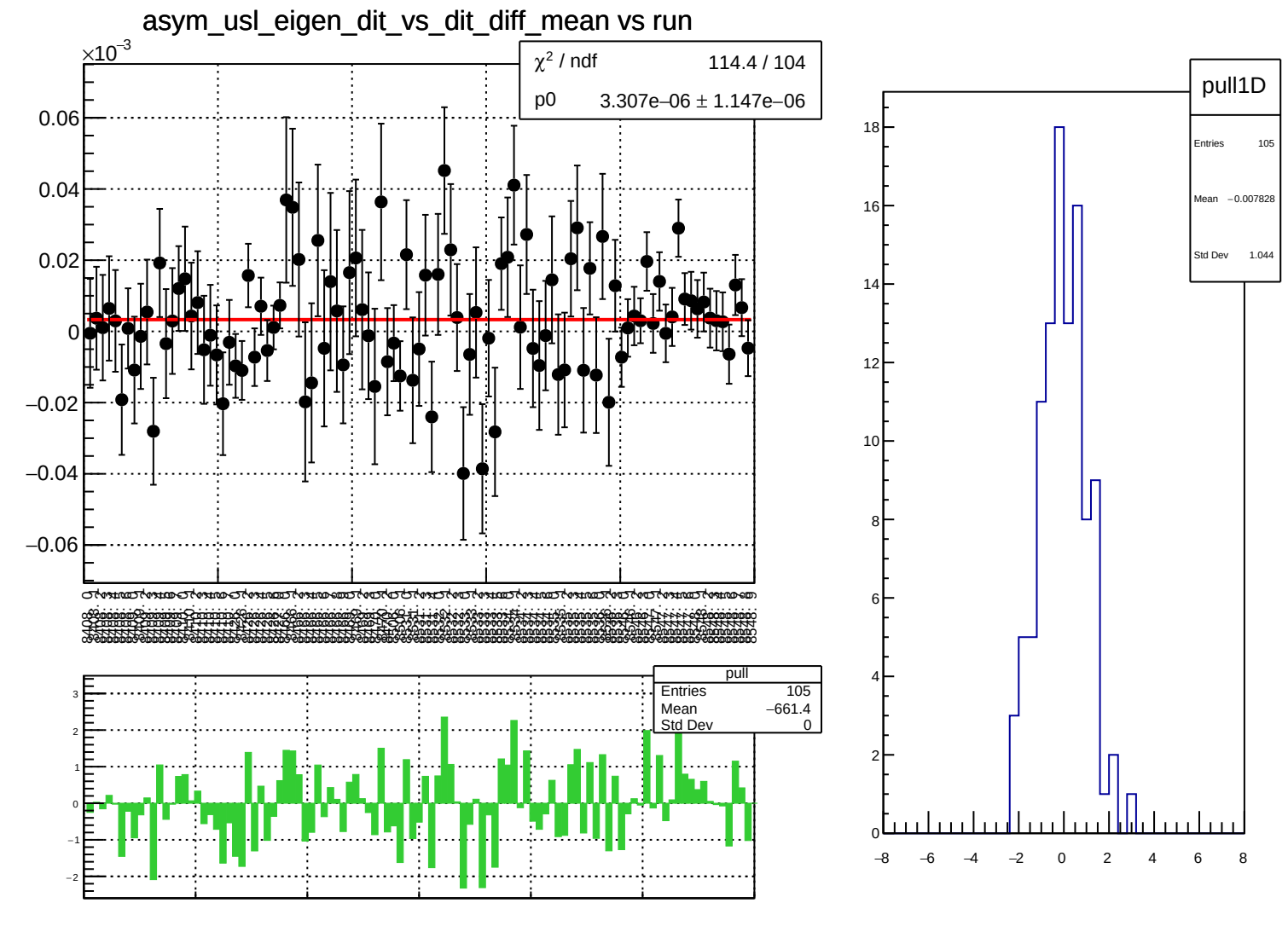

asym_usl_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.4 / 104
p0 −0.04726 ± 0.03136
pull
Entries 105
Mean 31.77
Std Dev 38.42

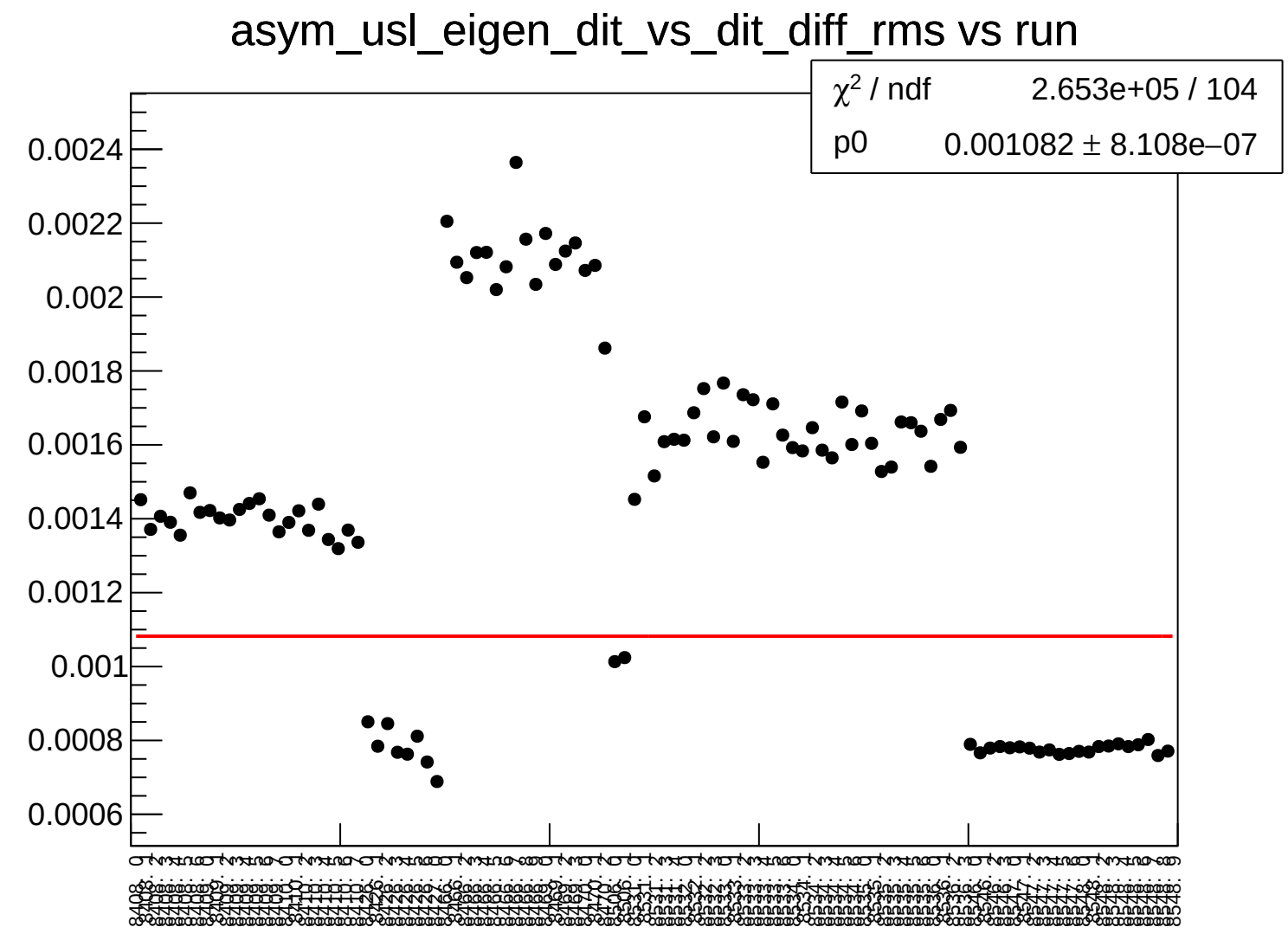

pull1D
Entries 105
Mean −0.06206
Std Dev 0.9954

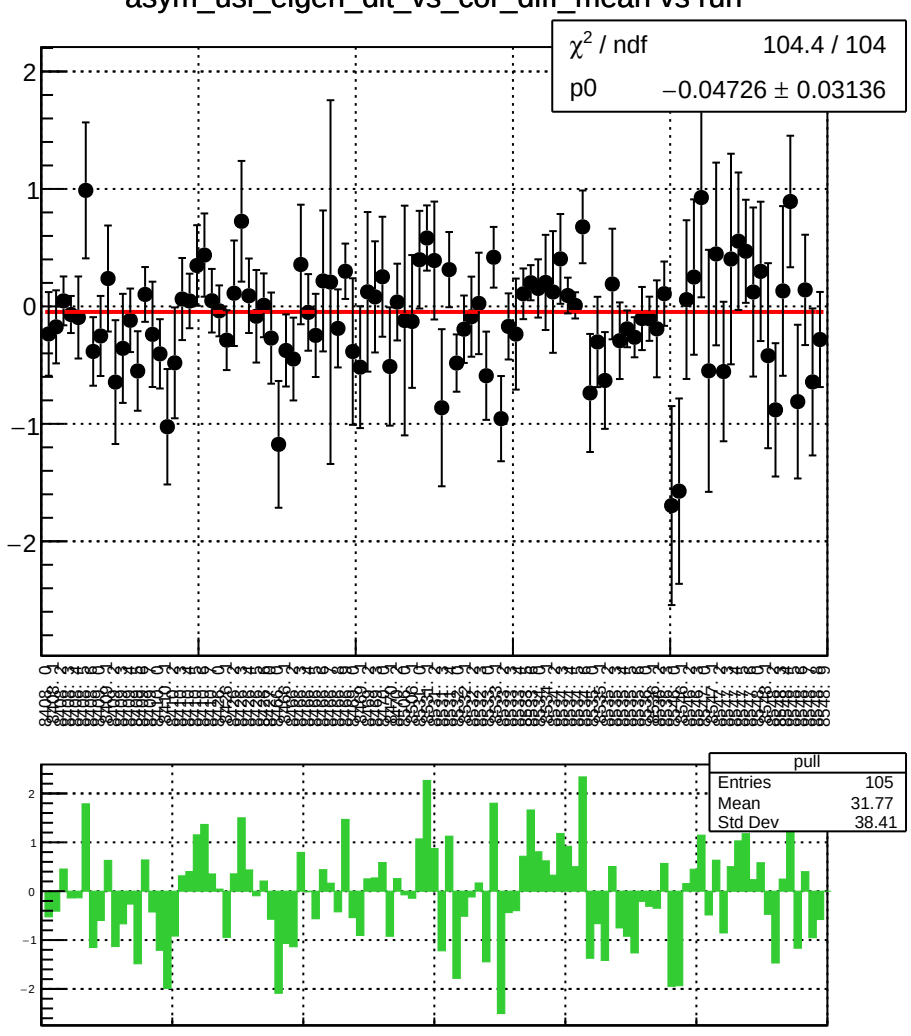

asym_usl_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.898e+05 / 104
p0 28.54 ± 0.02218
160
140
120
100
80
60
40
20

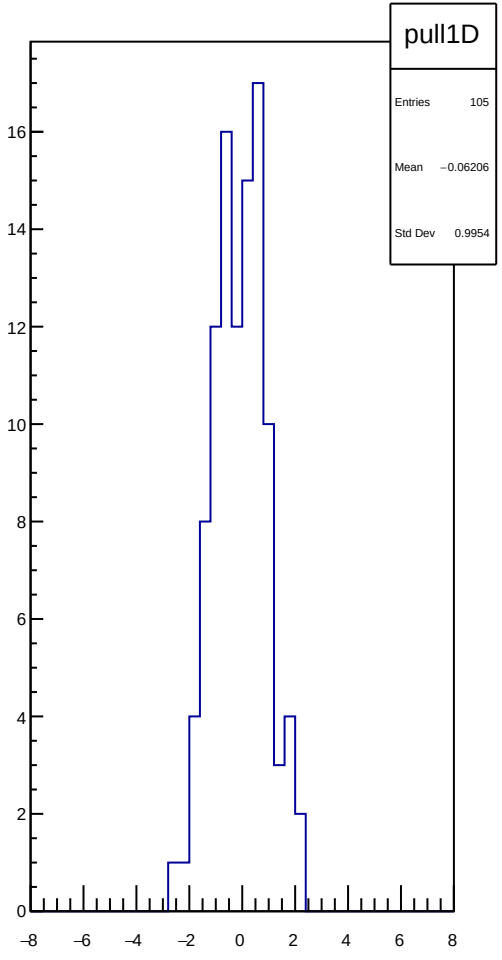

asym_usl_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 94.43 / 104
p0 −0.03721 ± 0.05105
pull
Entries 105
Mean −28.53
Std Dev 0
pull1D
Entries 105
Mean −0.0302
Std Dev 0.9479

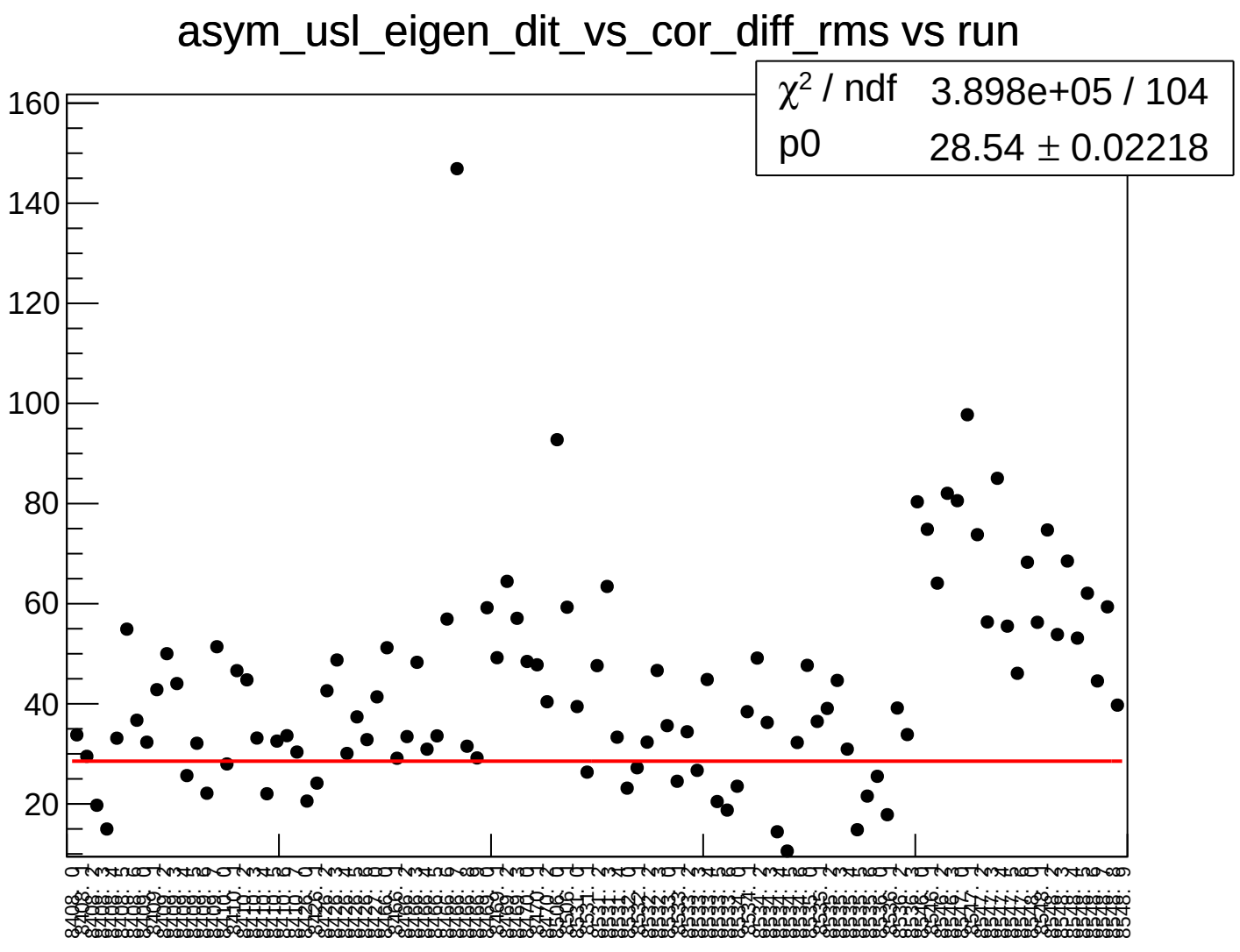

asym_usl_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.625e+05 / 104
p0 49.54 ± 0.0361
160
140
120
100
80
60
40
20

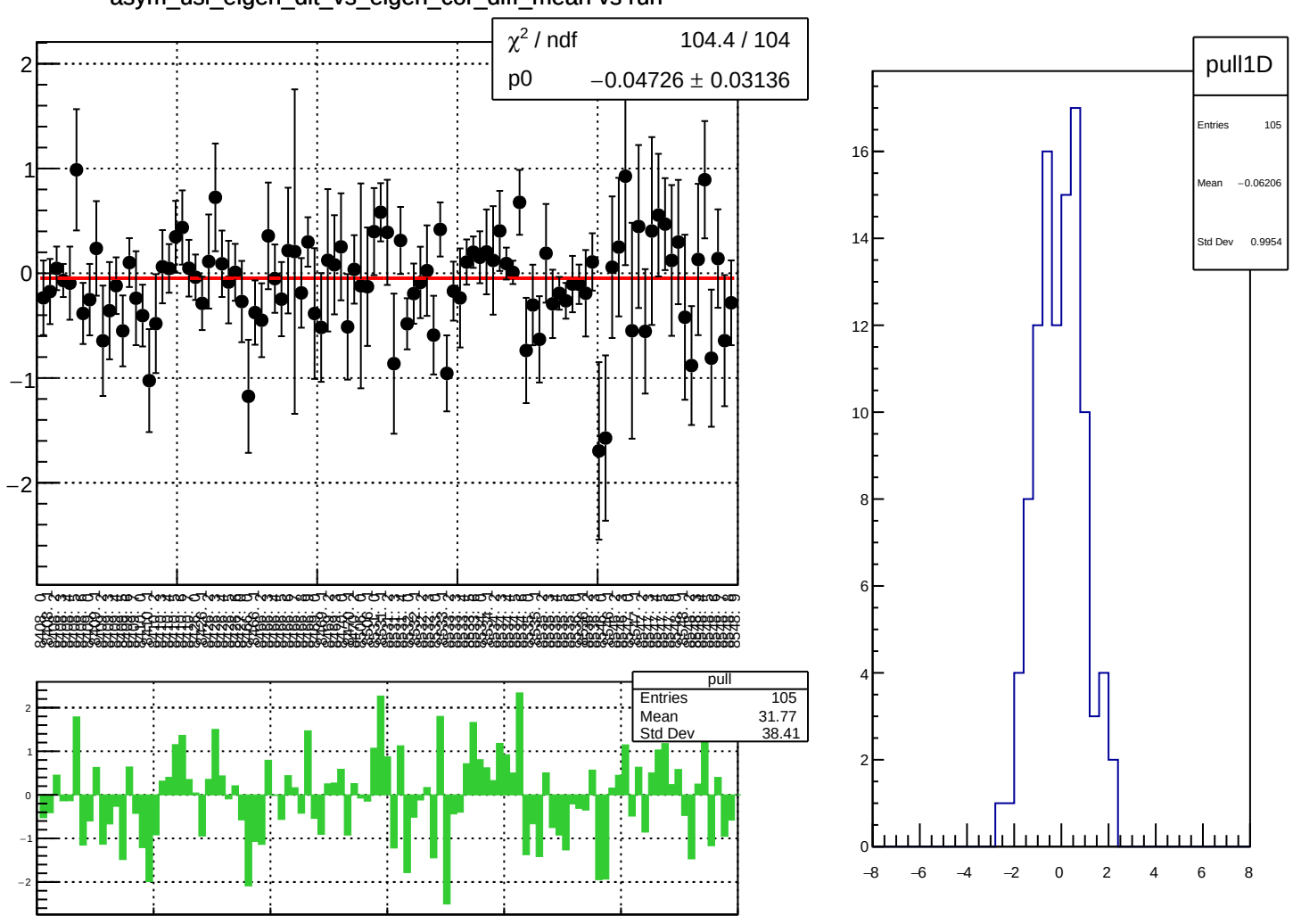

asym_usl_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 114.4 / 104
p0 3.307e−06 ± 1.147e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 105
Mean −661.4
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.007828
Std Dev 1.044
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

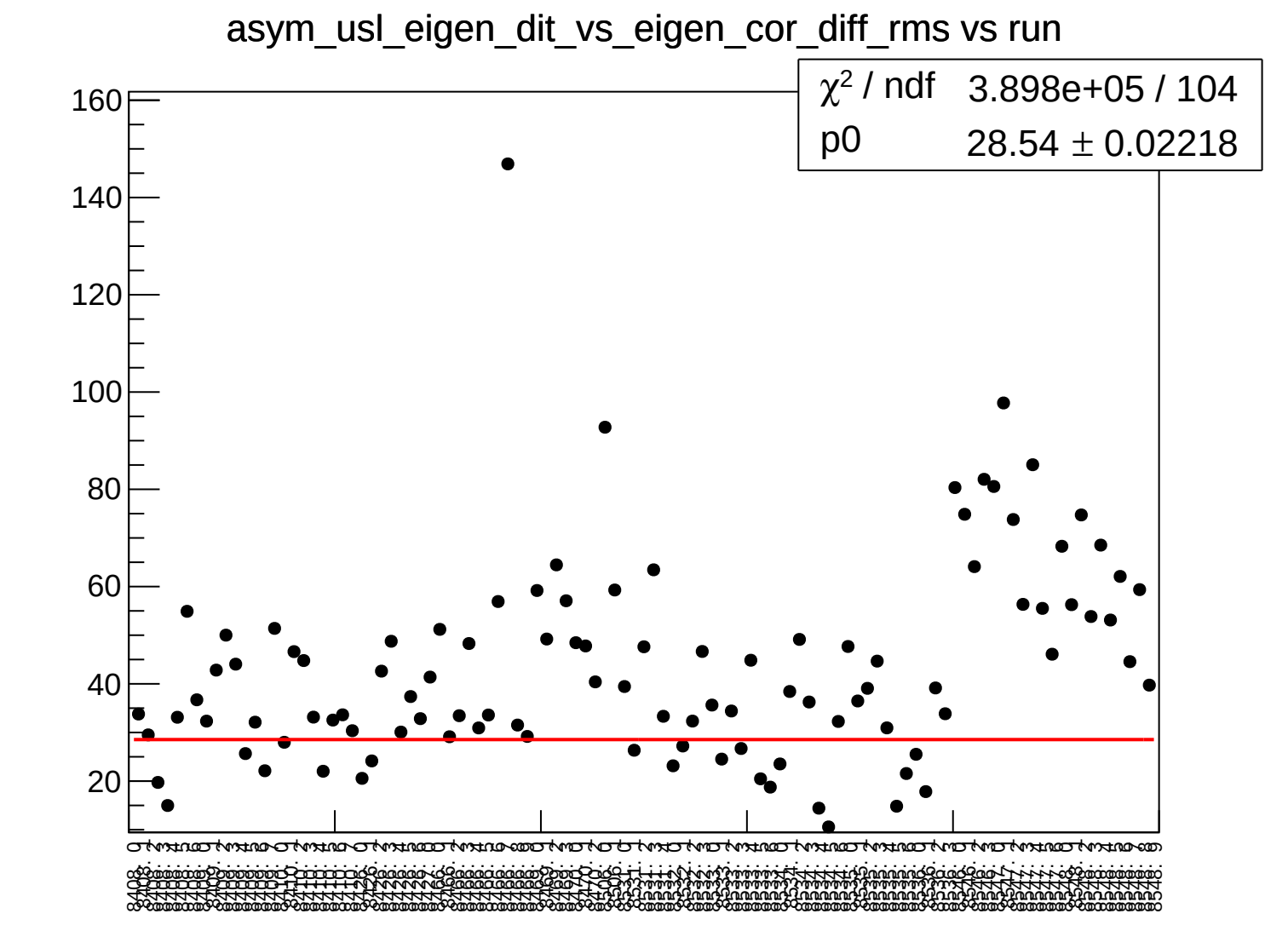

asym_usl_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.653e+05 / 104
p0 0.001082 ± 8.108e−07
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006

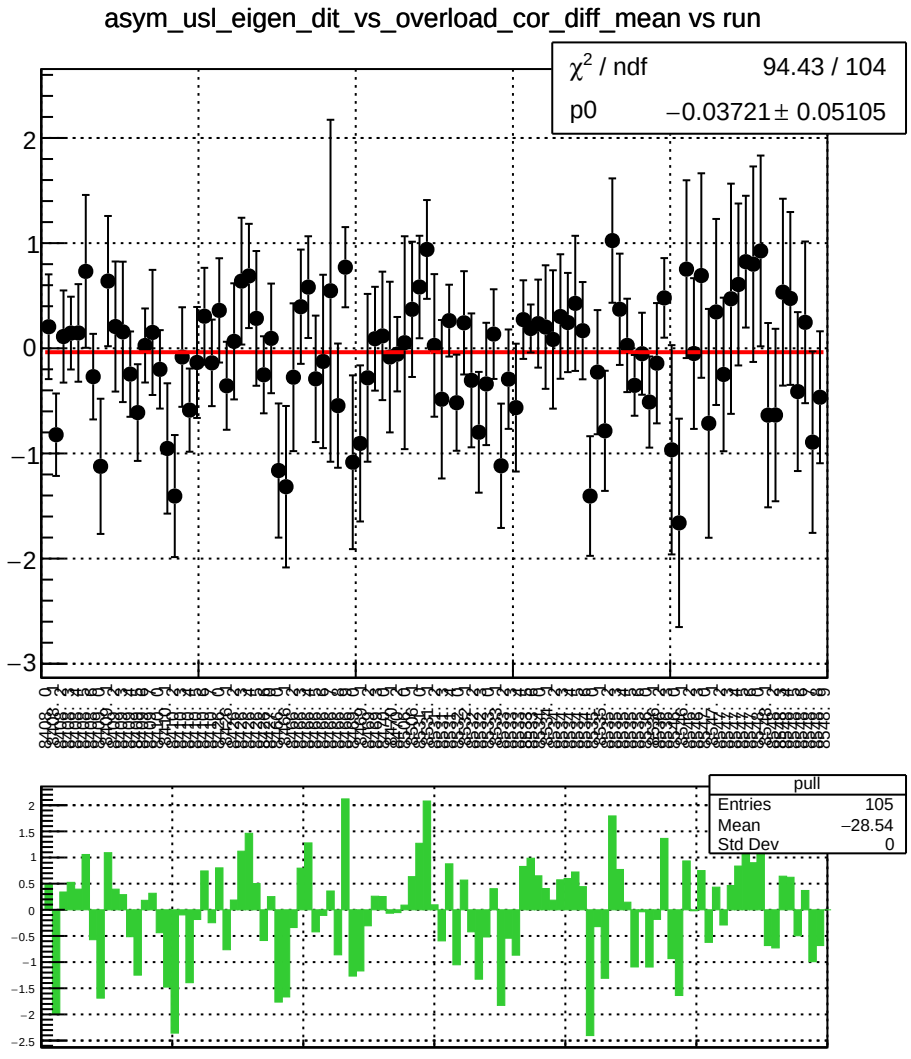

asym_usl_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 104.4 / 104
p0 −0.04726 ± 0.03136
pull
Entries 105
Mean 31.77
Std Dev 38.41

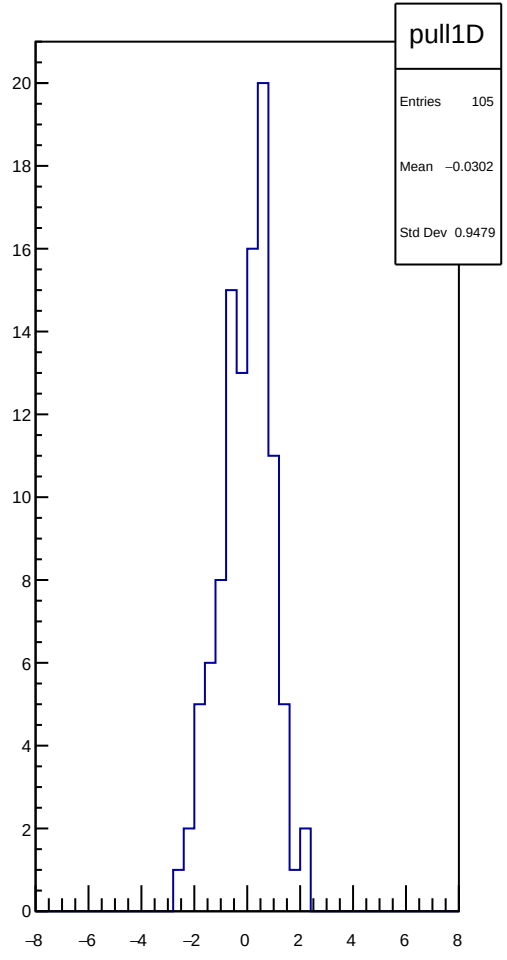

pull1D
Entries 105
Mean −0.06206
Std Dev 0.9954

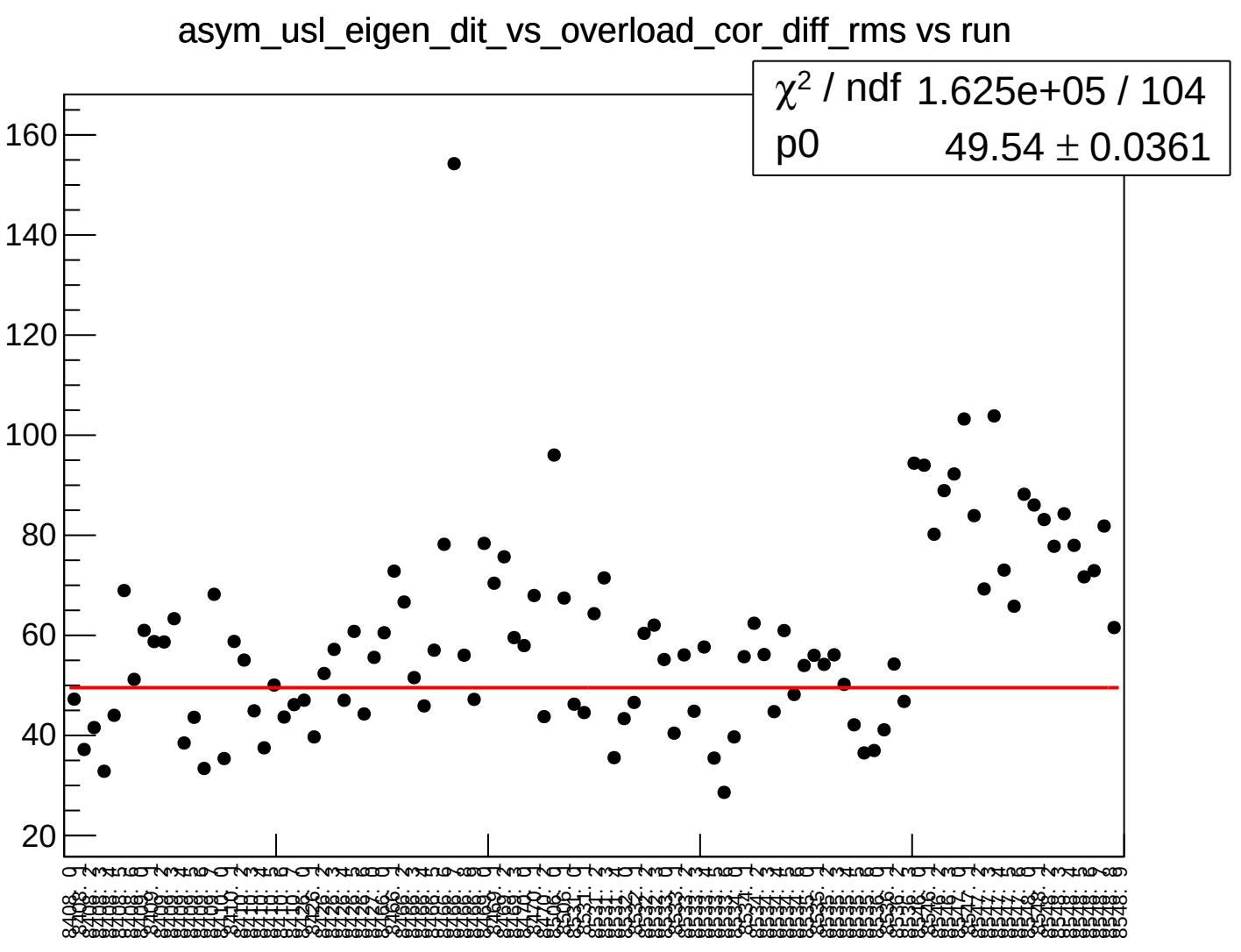

asym_usl_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.898e+05 / 104
p0 28.54 ± 0.02218
160
140
120
100
80
60
40
20

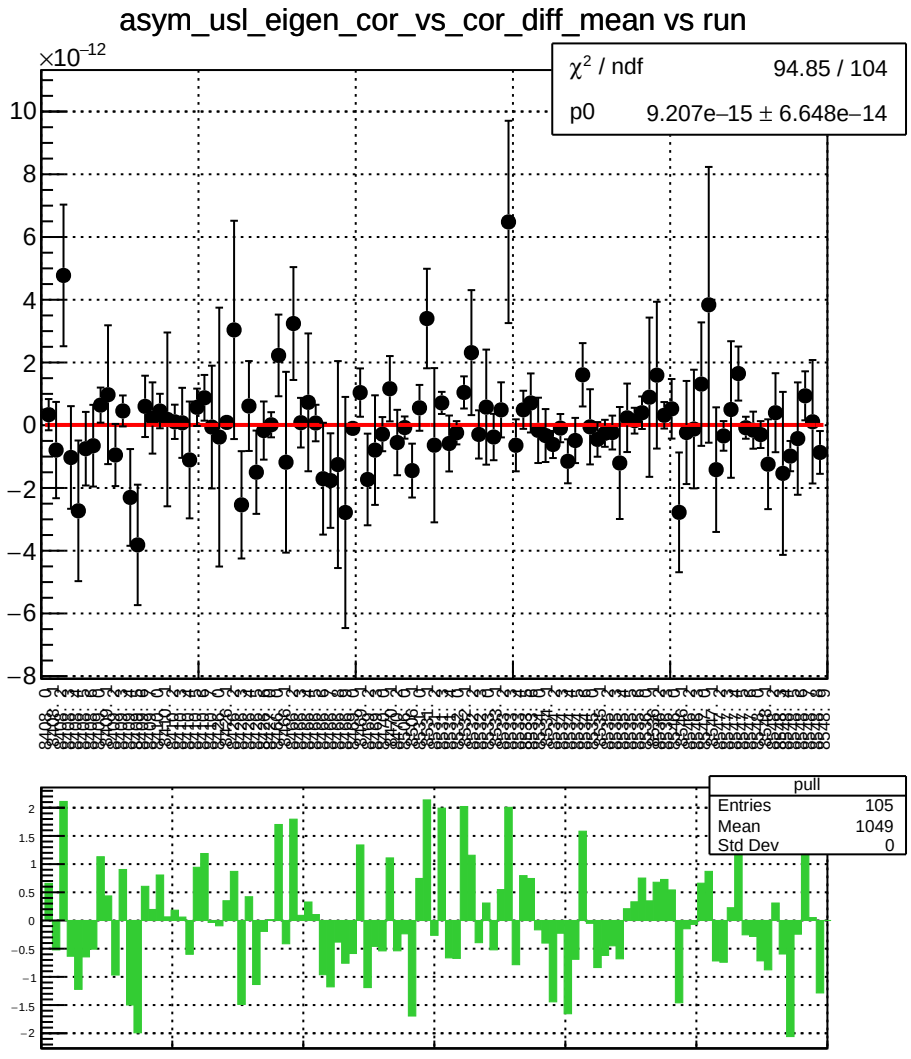

asym_usl_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.4 / 104
p0 −0.04726 ± 0.03136
pull
Entries 105
Mean 31.77
Std Dev 38.41
pull1D
Entries 105
Mean −0.06206
Std Dev 0.9954

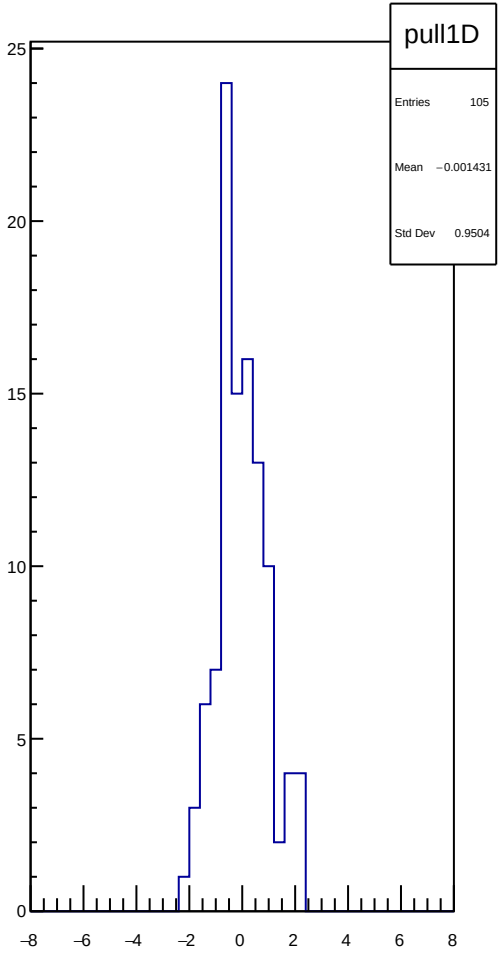

asym_usl_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.898e+05 / 104
p0 28.54 ± 0.02218
160
140
120
100
80
60
40
20

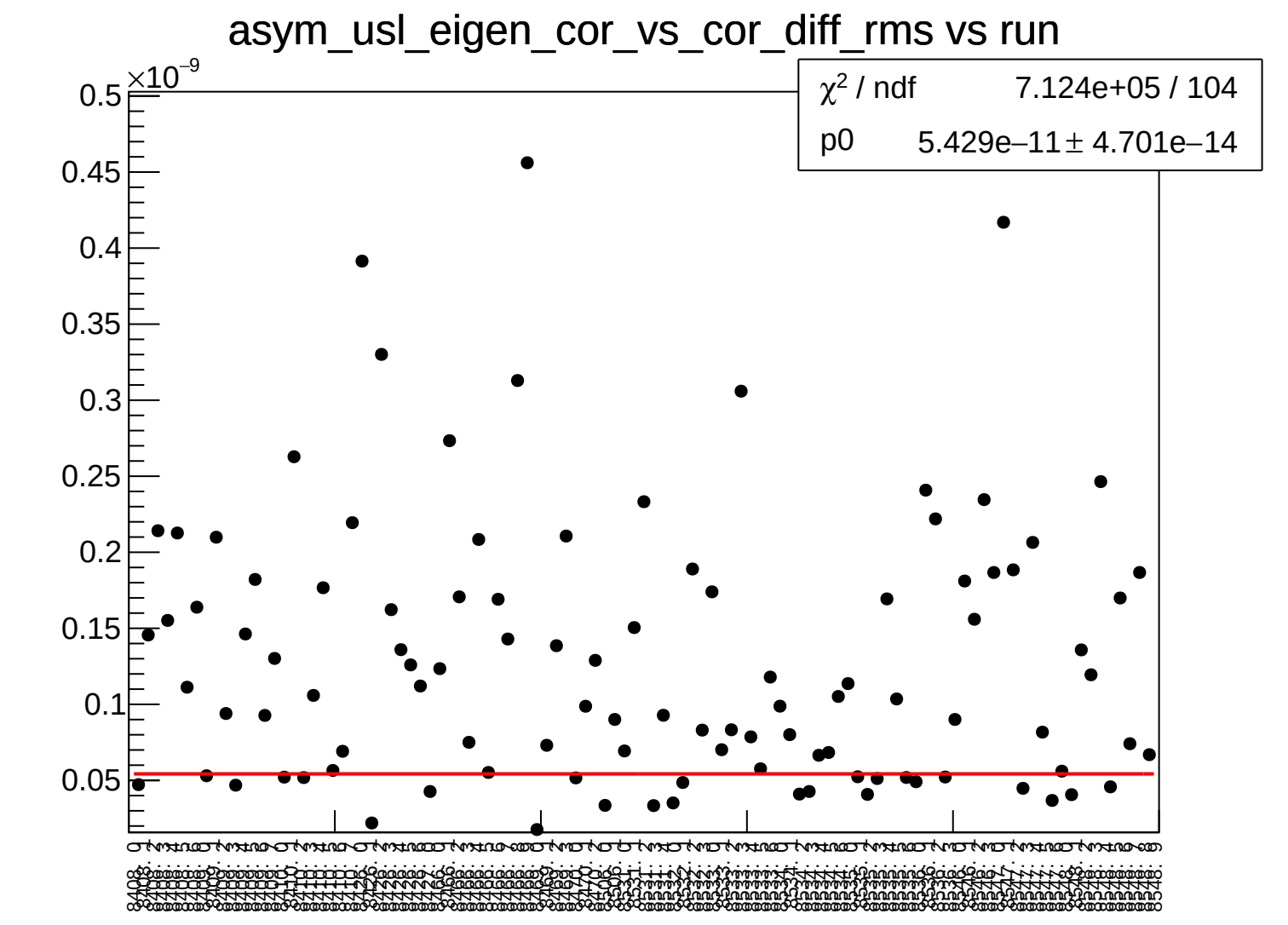

asym_usl_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 94.43 / 104
p0 −0.03721 ± 0.05105
pull
Entries 105
Mean −28.54
Std Dev 0

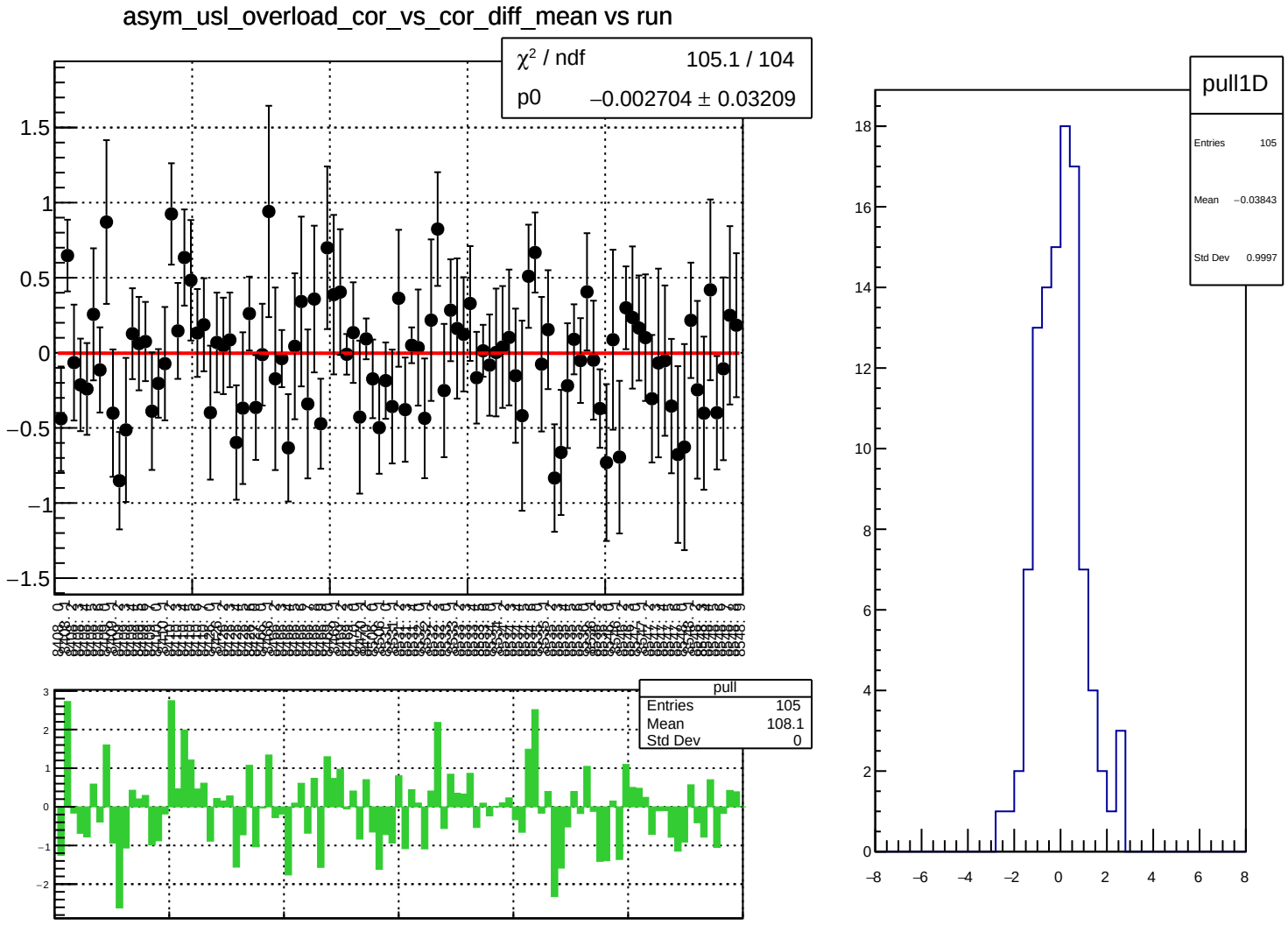

pull1D
Entries 105
Mean −0.0302
Std Dev 0.9479

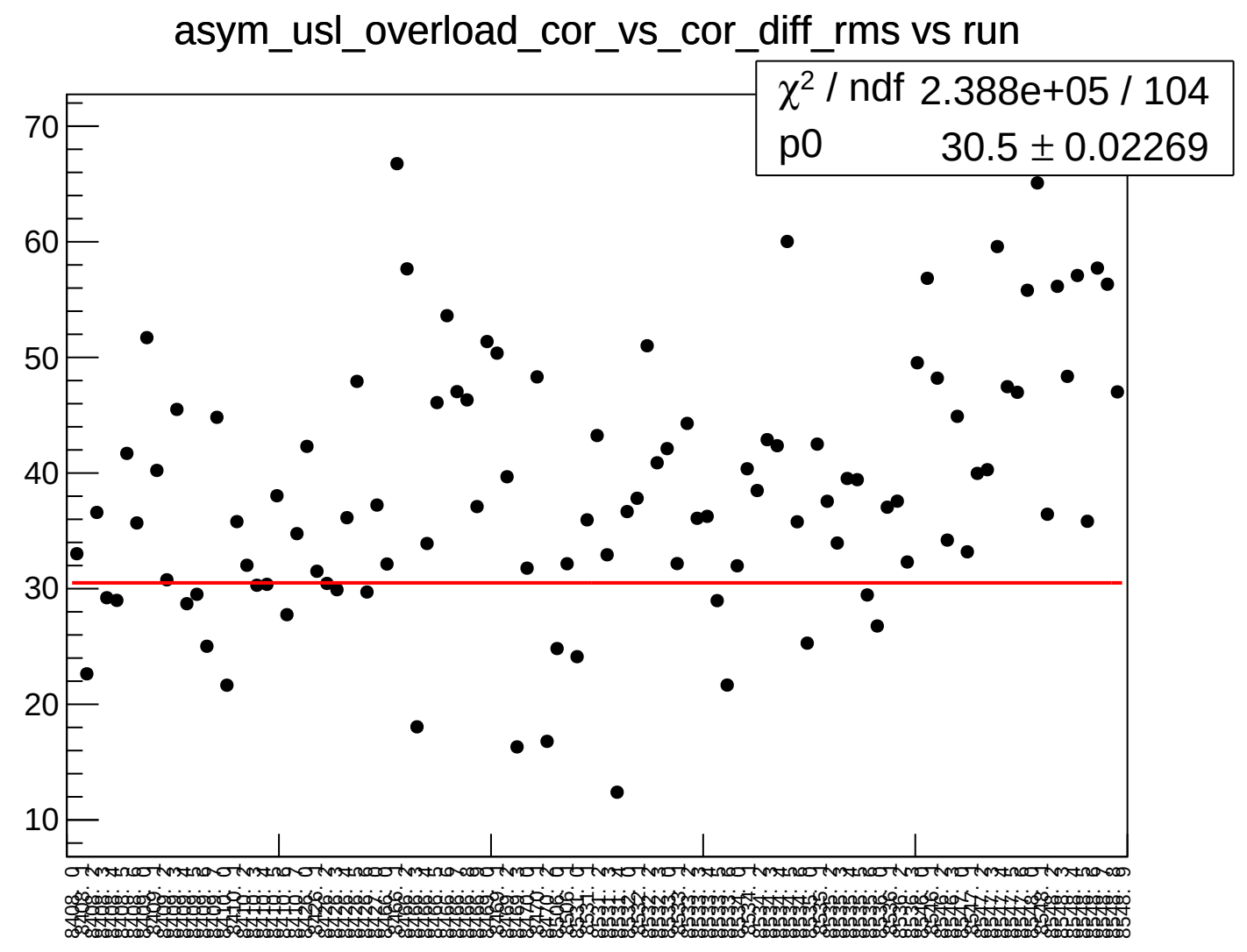

asym_usl_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 1.625e+05 / 104
p0 49.54 ± 0.0361
160
140
120
100
80
60
40
20

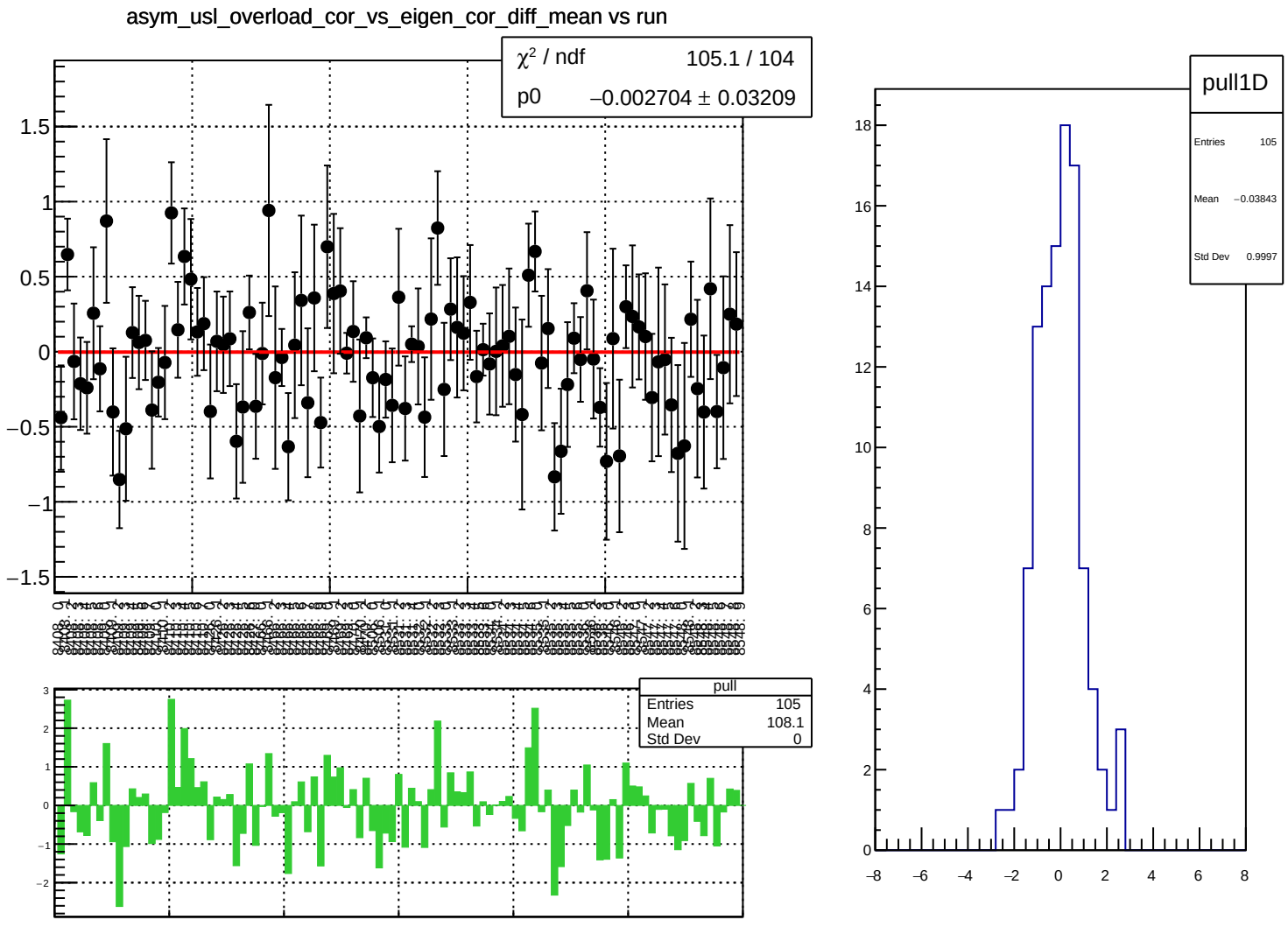

asym_usl_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.85 / 104
p0 9.207e−15 ± 6.648e−14
pull
Entries 105
Mean 1049
Std Dev 0

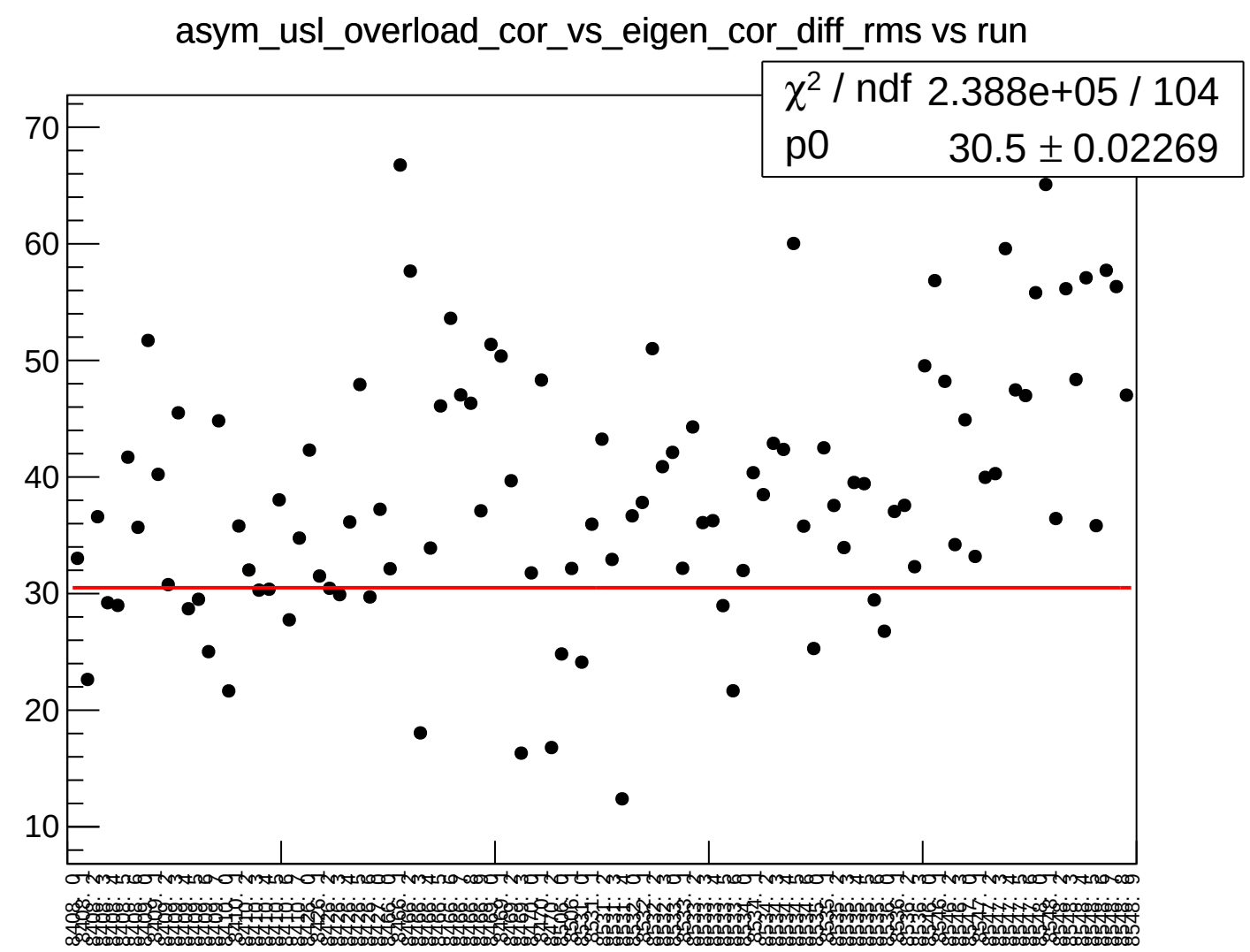

pull1D
Entries 105
Mean −0.001431
Std Dev 0.9504

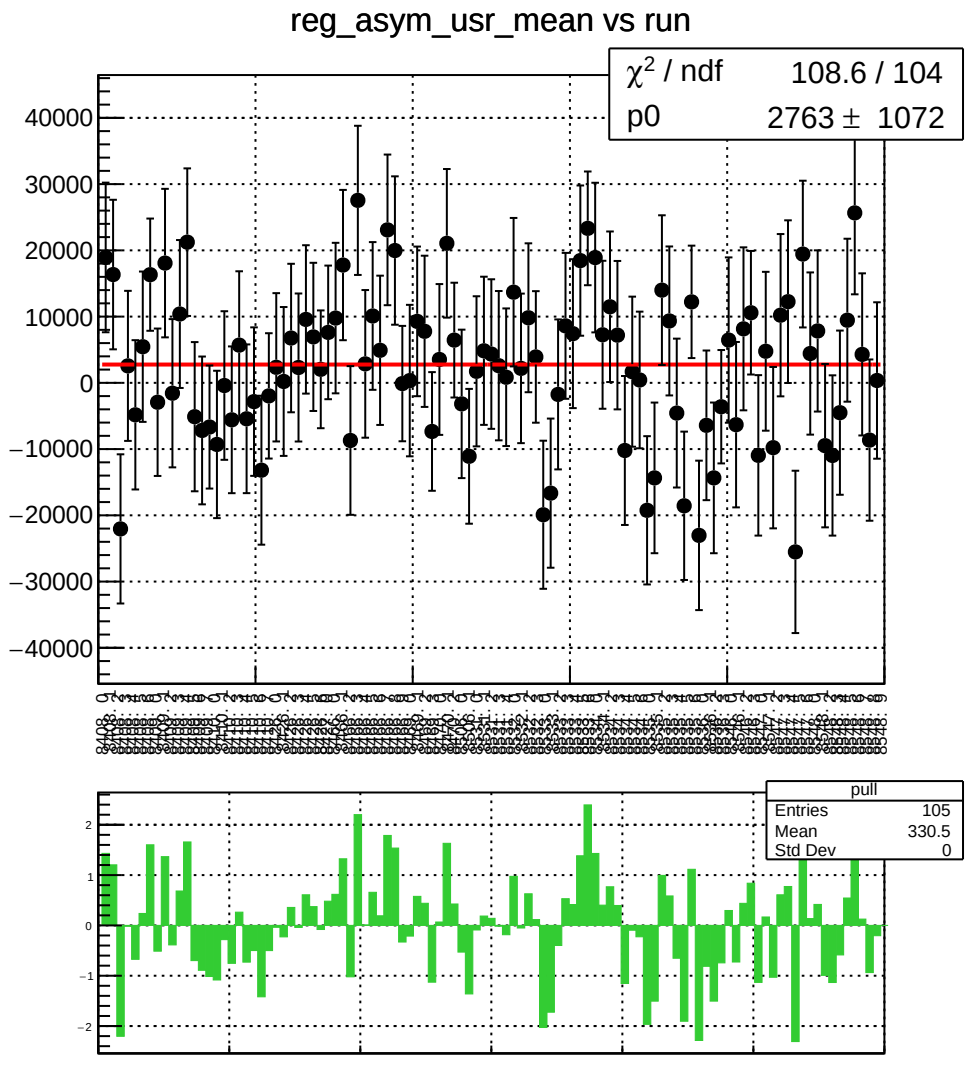

asym_usl_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
χ² / ndf 7.124e+05 / 104
p0 5.429e−11 ± 4.701e−14

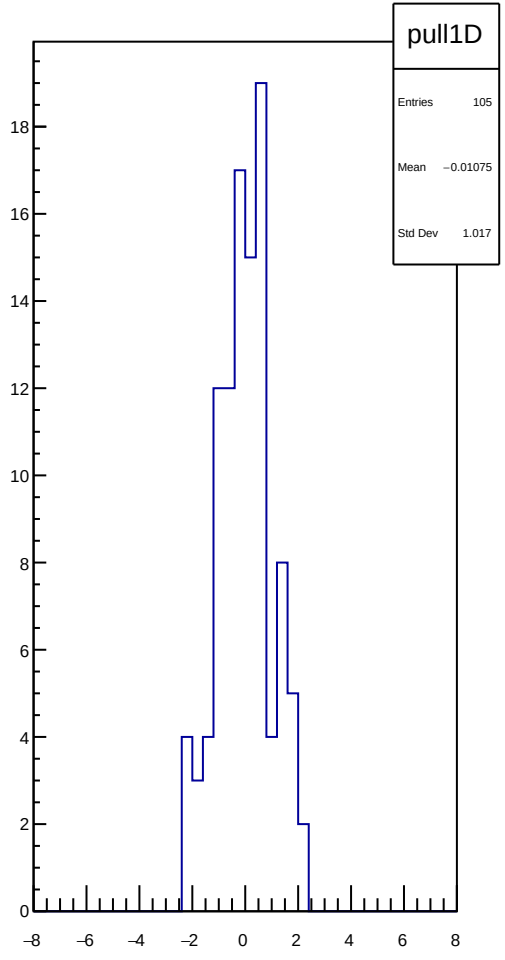

asym_usl_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 105.1 / 104
p0 −0.002704 ± 0.03209
pull
Entries 105
Mean 108.1
Std Dev 0
pull1D
Entries 105
Mean −0.03843
Std Dev 0.9997

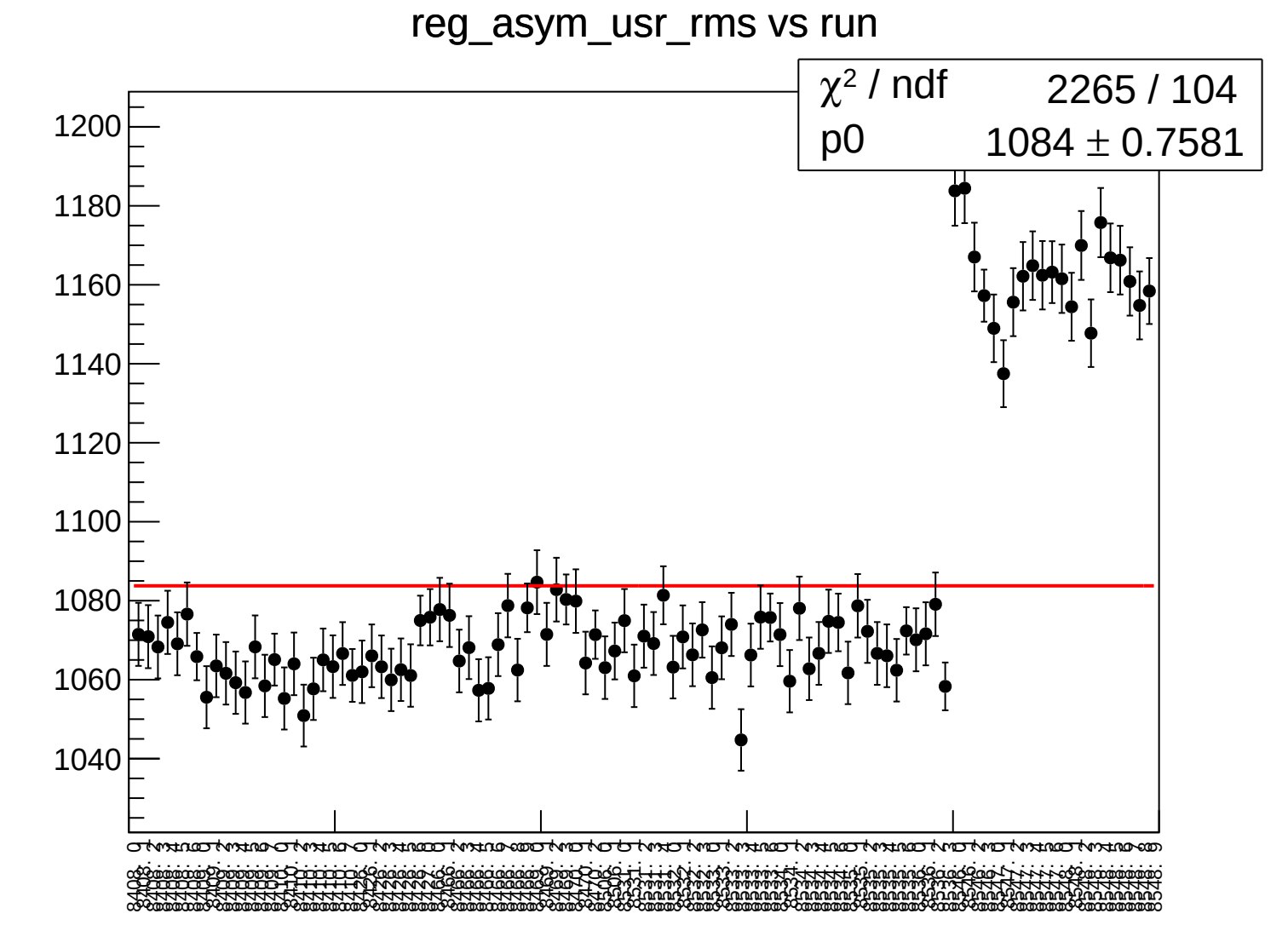

asym_usl_overload_cor_vs_cor_diff_rms vs run
χ^2 / ndf 2.388e+05 / 104
p0 30.5 ± 0.02269
70
60
50
40
30
20
10

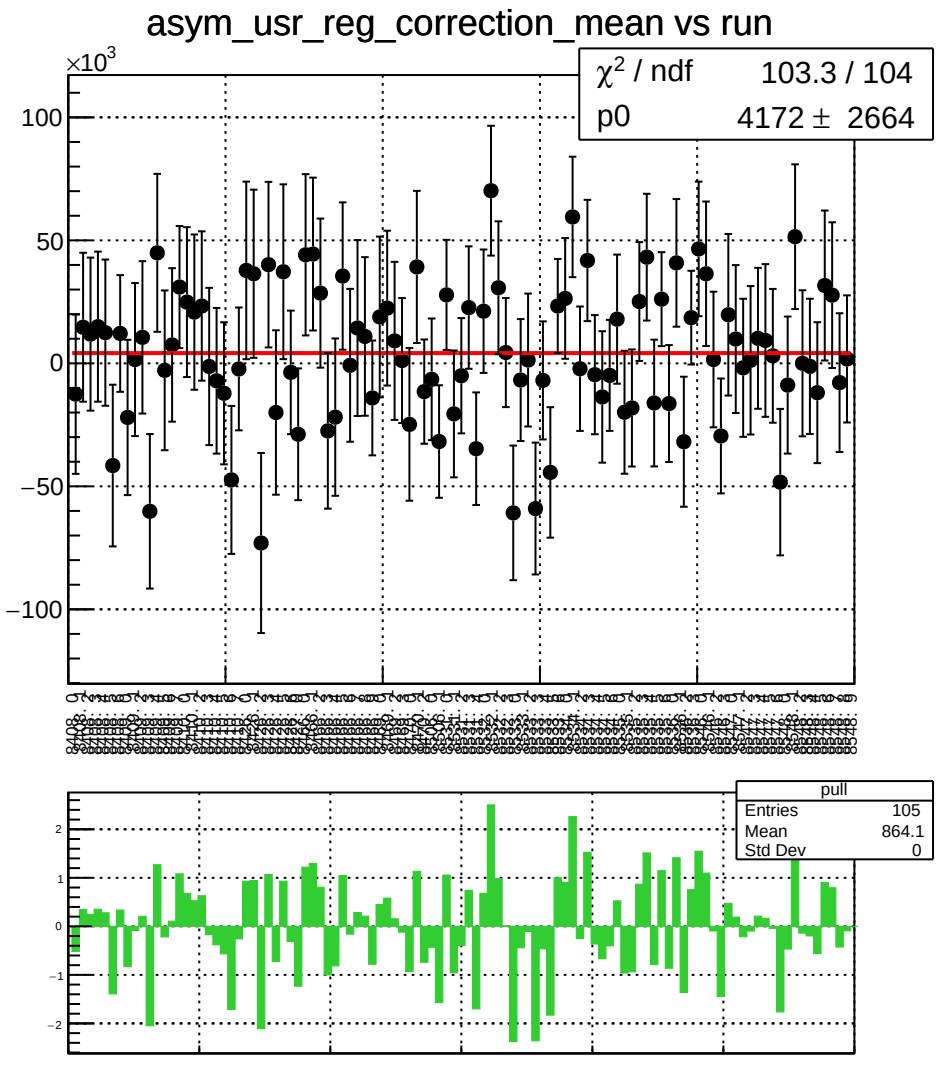

asym_usl_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.1 / 104
p0 −0.002704 ± 0.03209
pull
Entries 105
Mean 108.1
Std Dev 0
pull1D
Entries 105
Mean −0.03843
Std Dev 0.9997

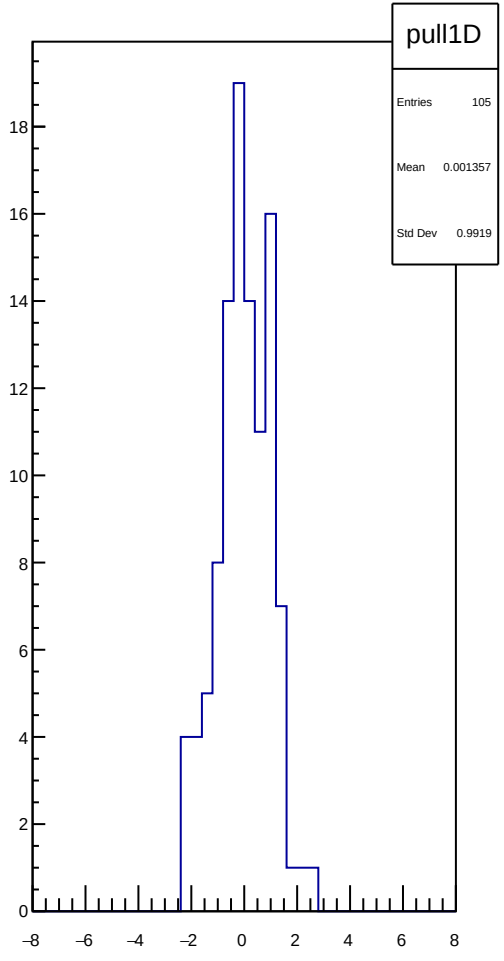

asym_usl_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.388e+05 / 104
p0 30.5 ± 0.02269
70
60
50
40
30
20
10

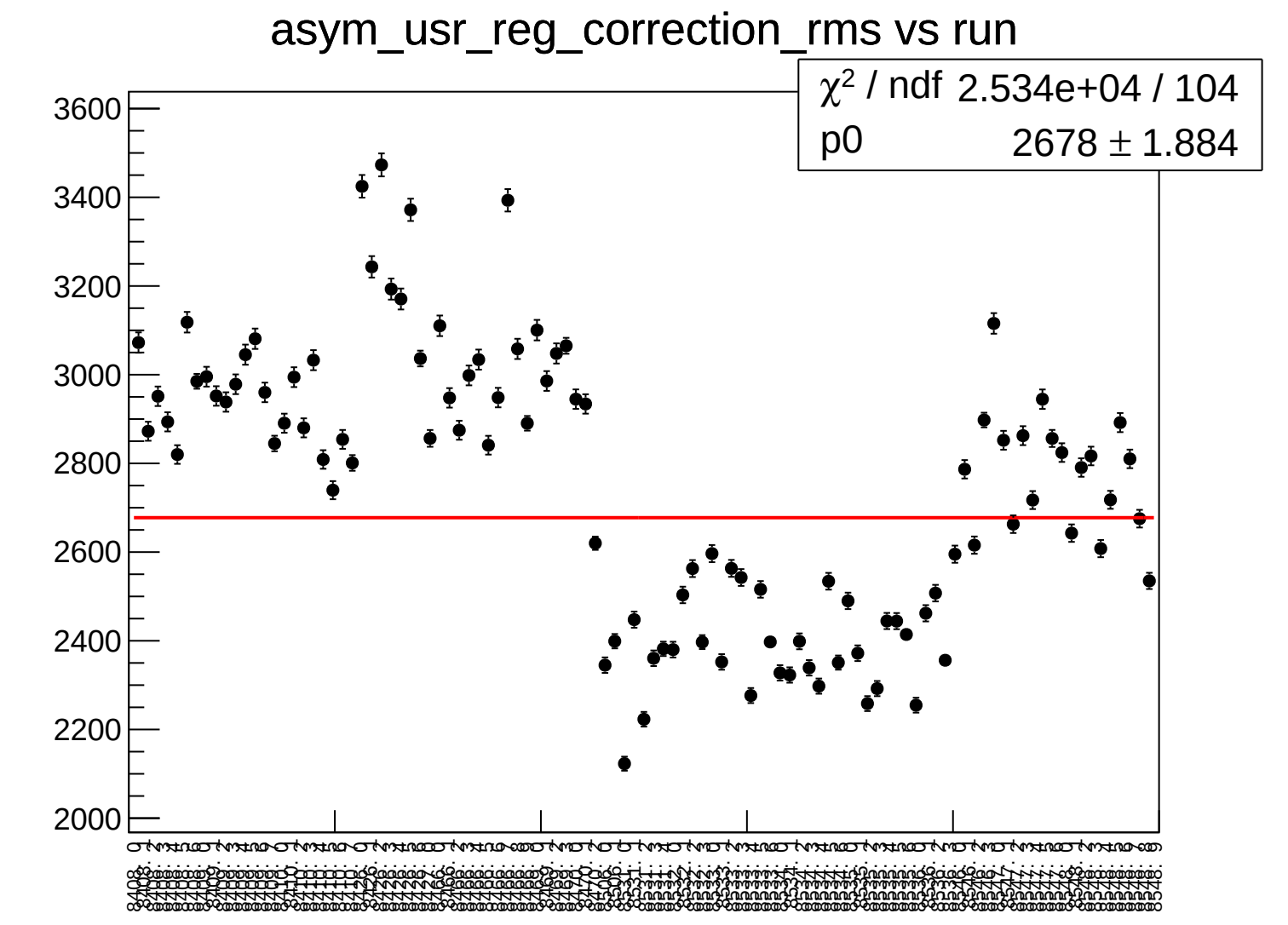

reg_asym_usr_mean vs run
χ² / ndf 108.6 / 104
p0 2763 ± 1072
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 105
Mean 330.5
Std Dev 0
2
1
0
−1
−2

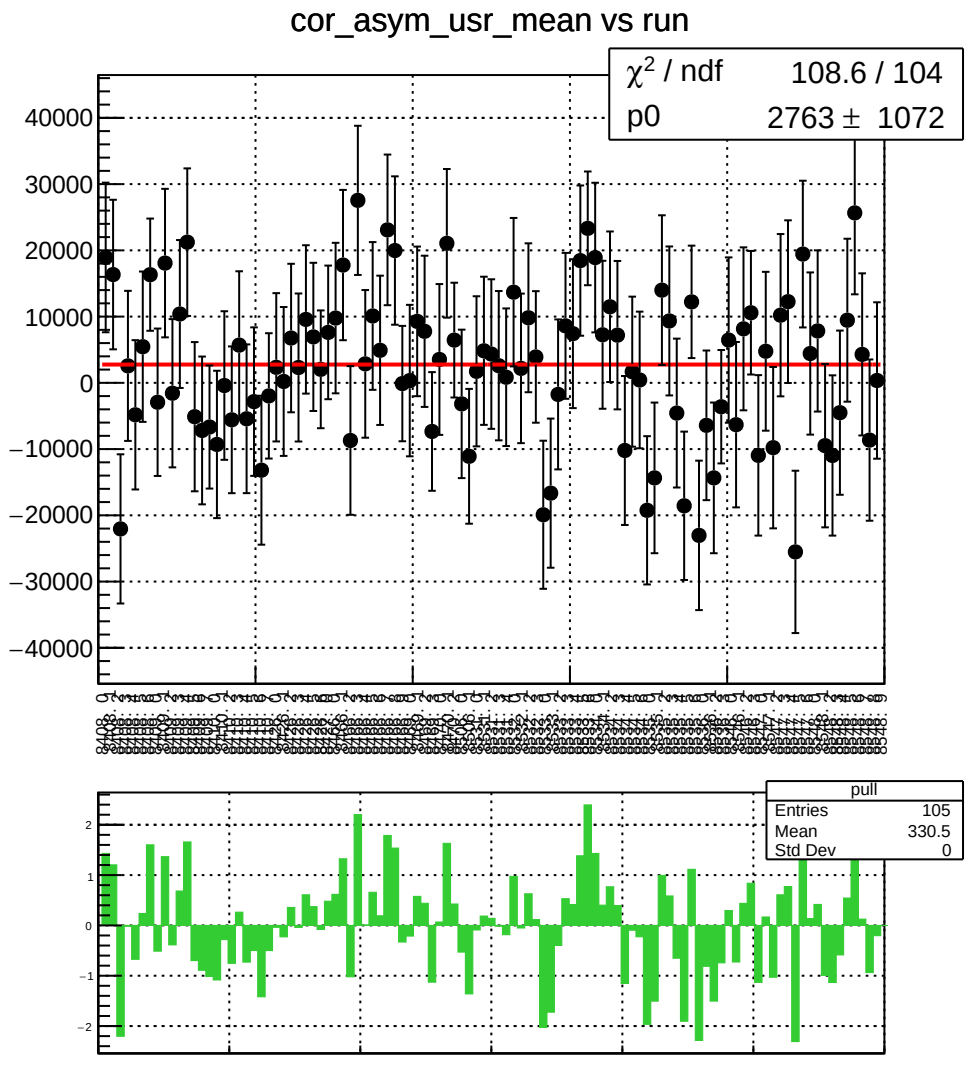

pull1D
Entries 105
Mean −0.01075
Std Dev 1.017
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

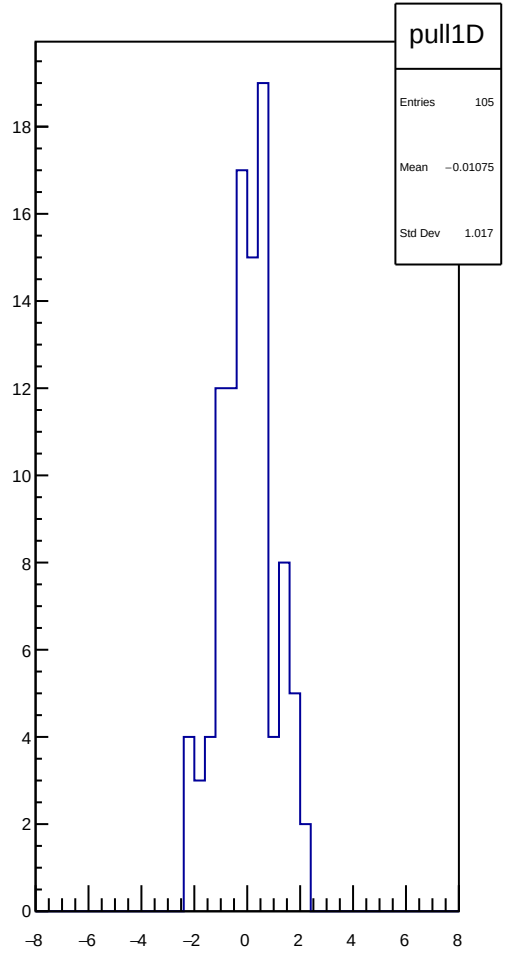

reg_asym_usr_rms vs run
χ² / ndf 2265 / 104
p0 1084 ± 0.7581
1200
1180
1160
1140
1120
1100
1080
1060
1040


asym_usr_reg_correction_mean vs run
×10^3
χ^2 / ndf 103.3 / 104
p0 4172 ± 2664
100
50
0
−50
−100
pull
Entries 105
Mean 864.1
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 105
Mean 0.001357
Std Dev 0.9919
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 2.534e+04 / 104
p0 2678 ± 1.884
3600
3400
3200
3000
2800
2600
2400
2200
2000


cor_asym_usr_mean vs run
χ² / ndf 108.6 / 104
p0 2763 ± 1072
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 105
Mean 330.5
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 105
Mean −0.01075
Std Dev 1.017
18
16
14
12
10
8
6
4
2
0
−8
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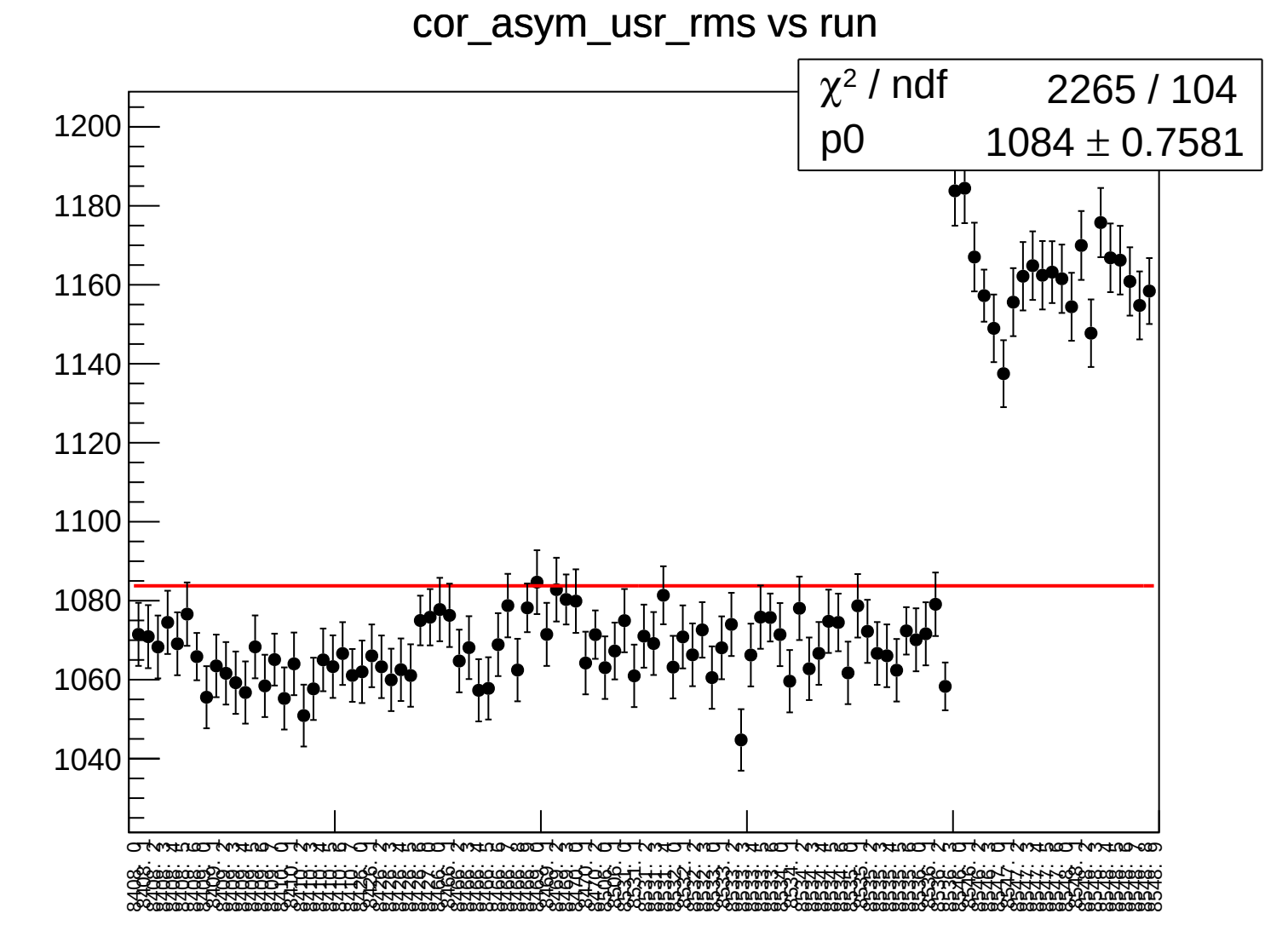
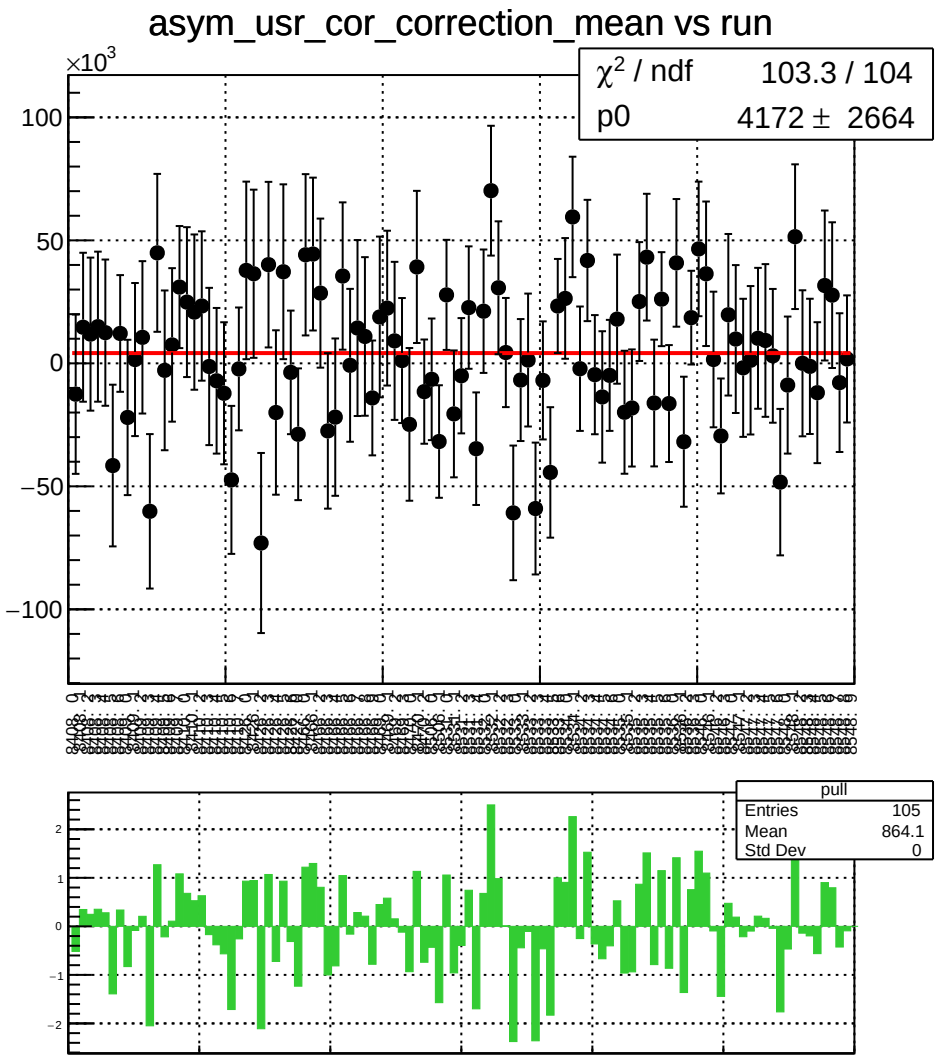
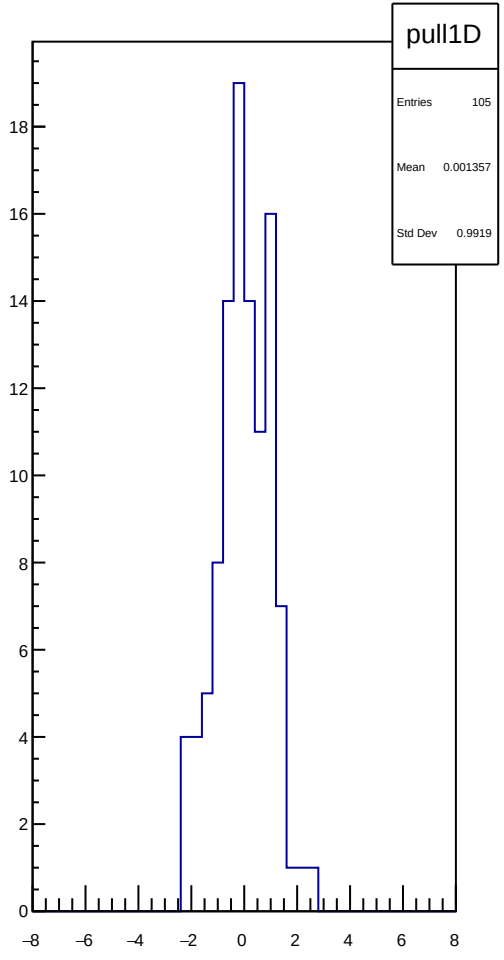
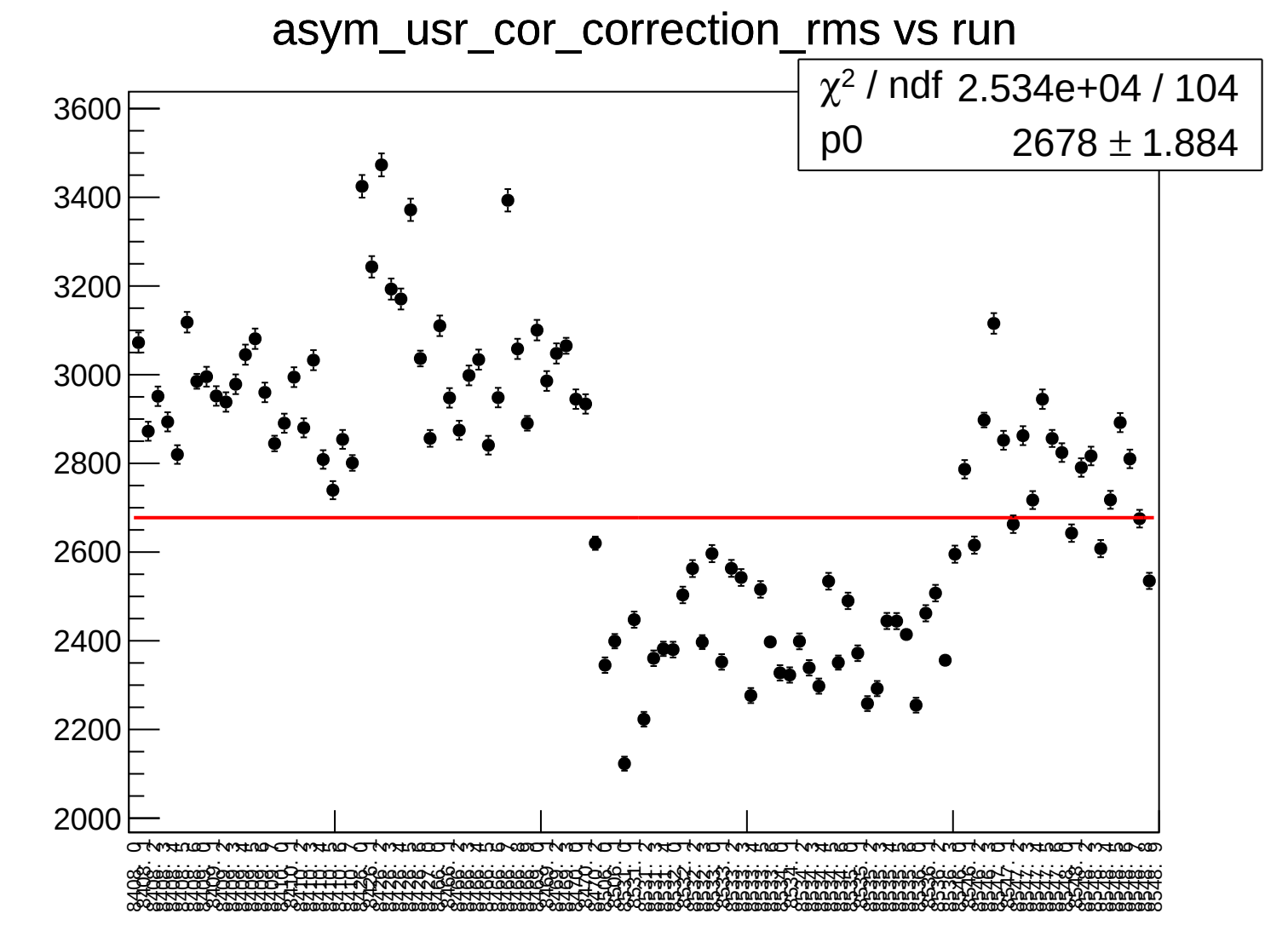
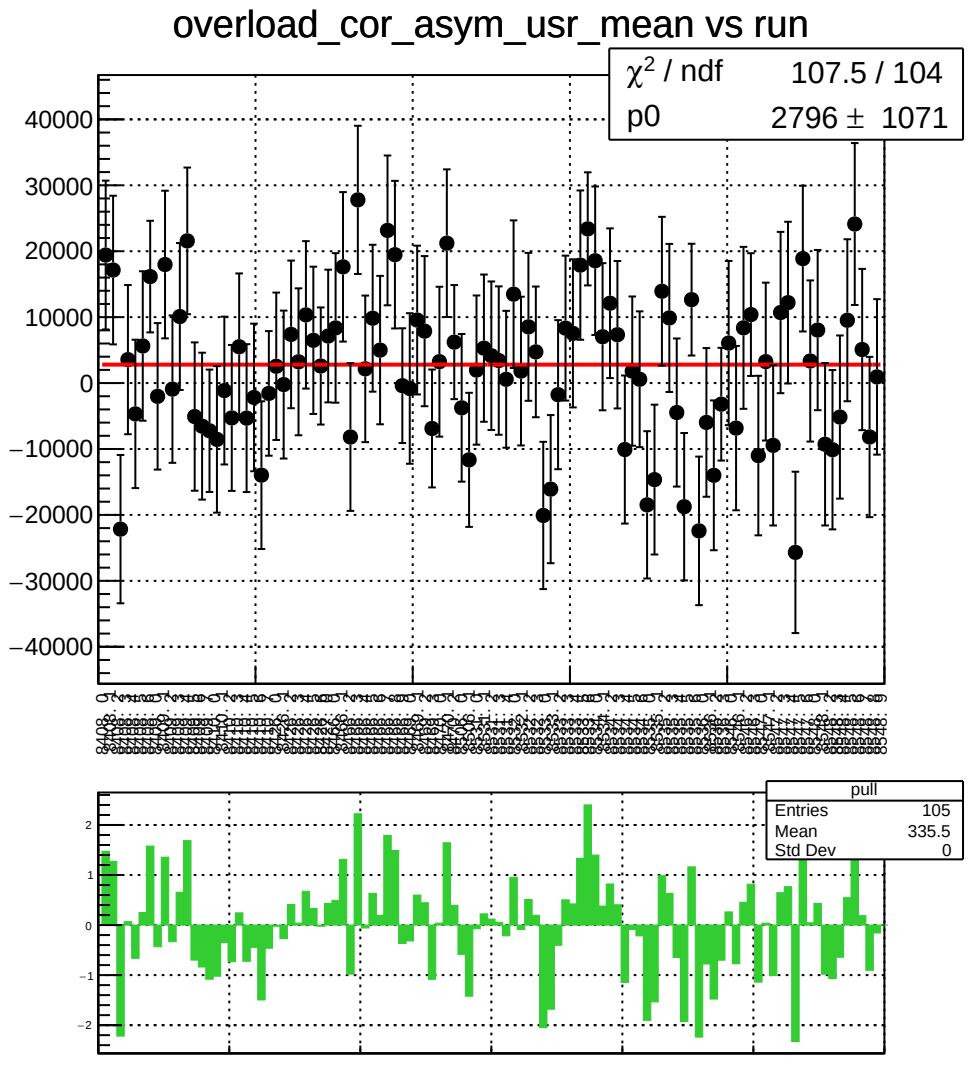
0
2
4
6
8

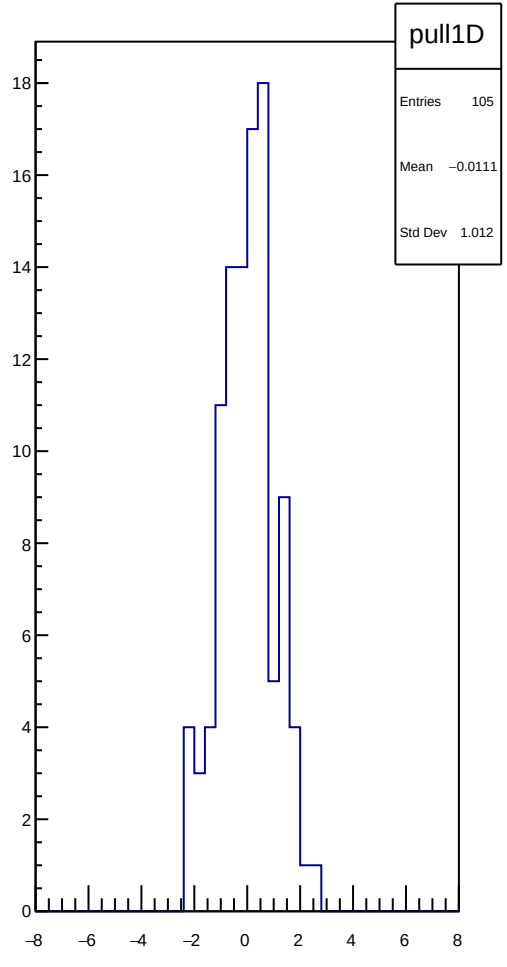

cor_asym_usr_rms vs run
χ² / ndf 2265 / 104
p0 1084 ± 0.7581
1200
1180
1160
1140
1120
1100
1080
1060
1040

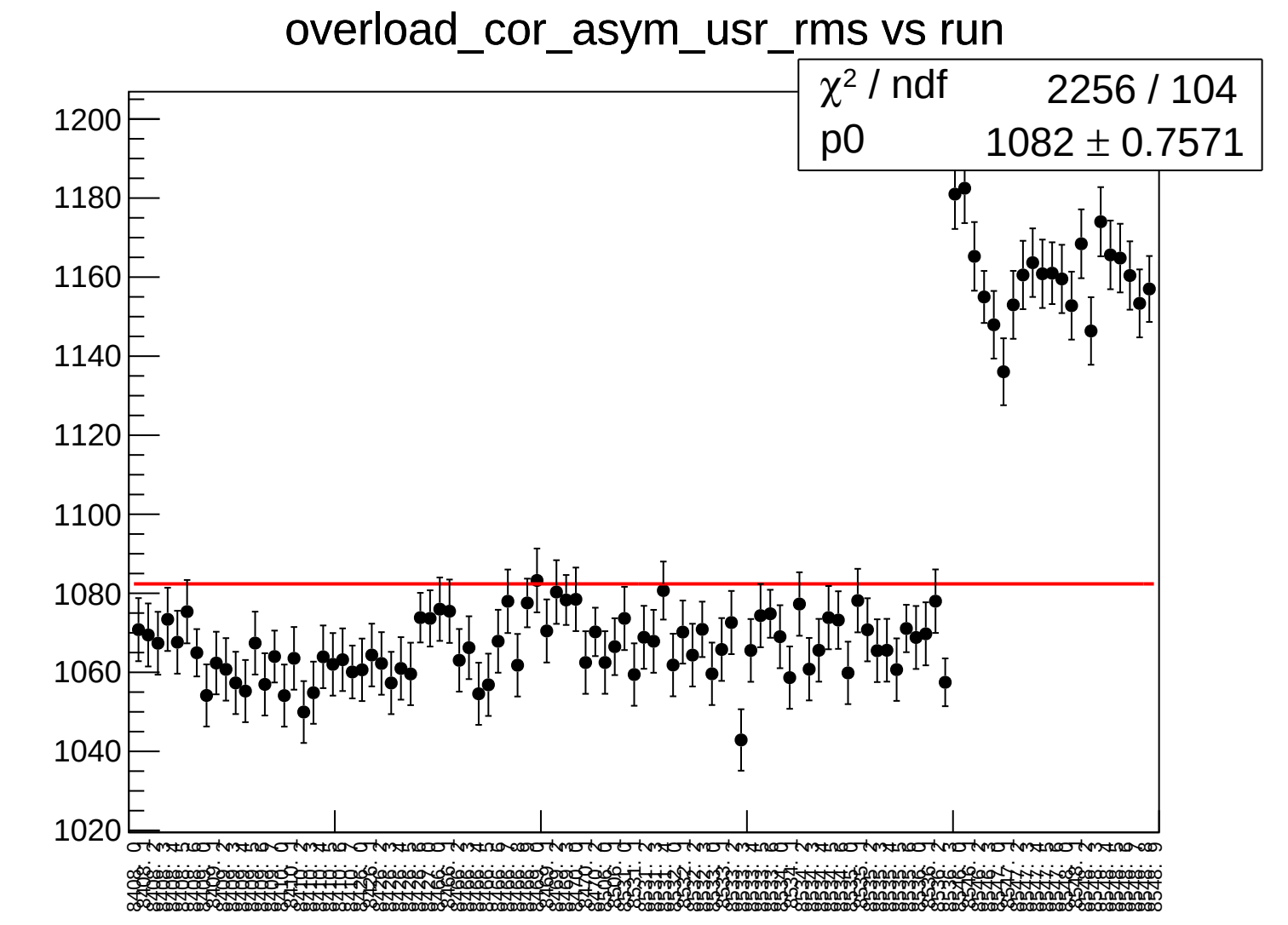

asym_usr_cor_correction_mean vs run
×10^3
χ^2 / ndf 103.3 / 104
p0 4172 ± 2664
100
50
0
−50
−100
pull
Entries 105
Mean 864.1
Std Dev 0
2
1
0
−1
−2

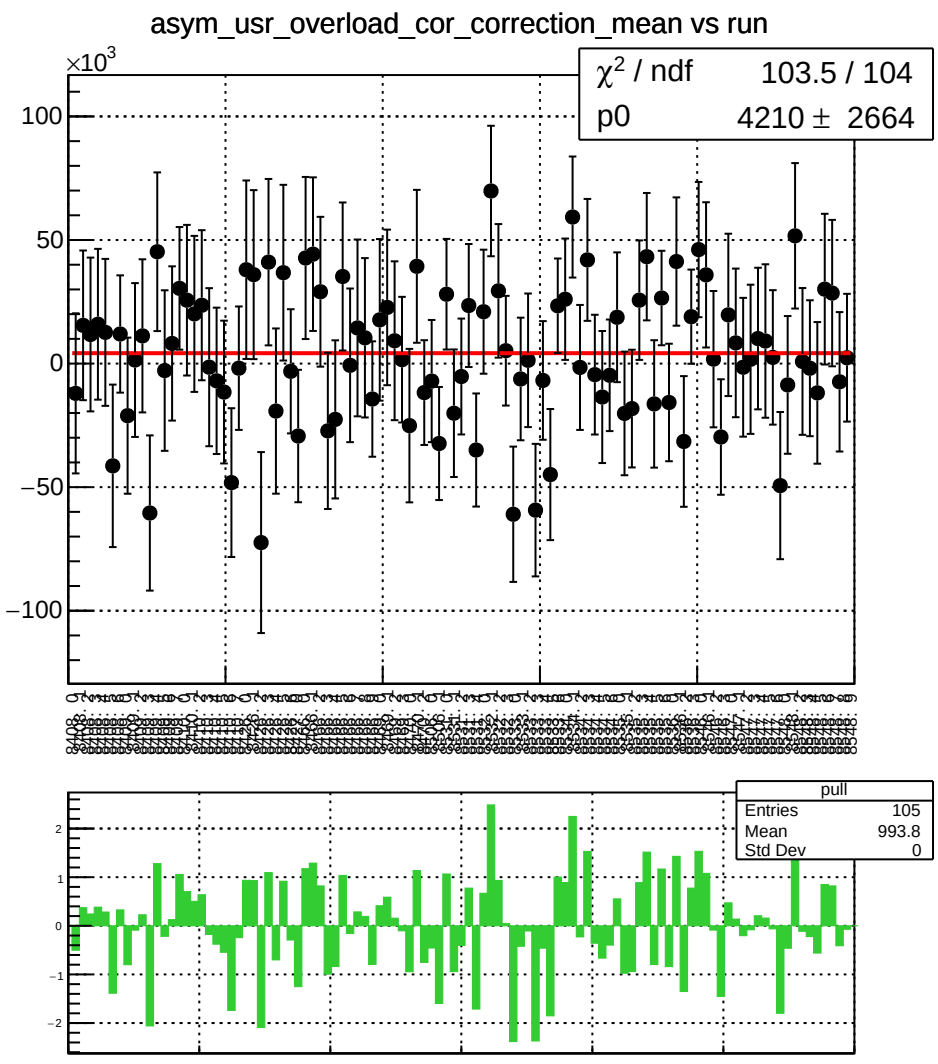

pull1D
Entries 105
Mean 0.001357
Std Dev 0.9919
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

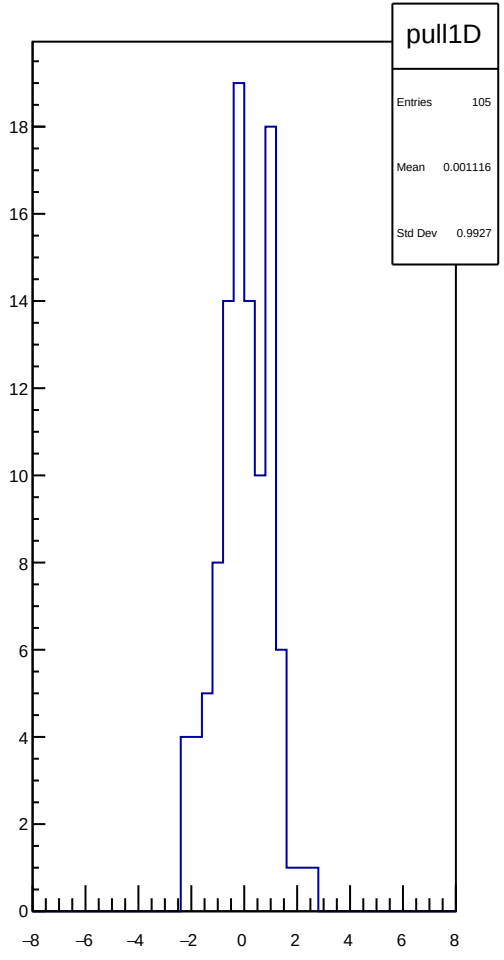

asym_usr_cor_correction_rms vs run
χ² / ndf 2.534e+04 / 104
p0 2678 ± 1.884
3600
3400
3200
3000
2800
2600
2400
2200
2000

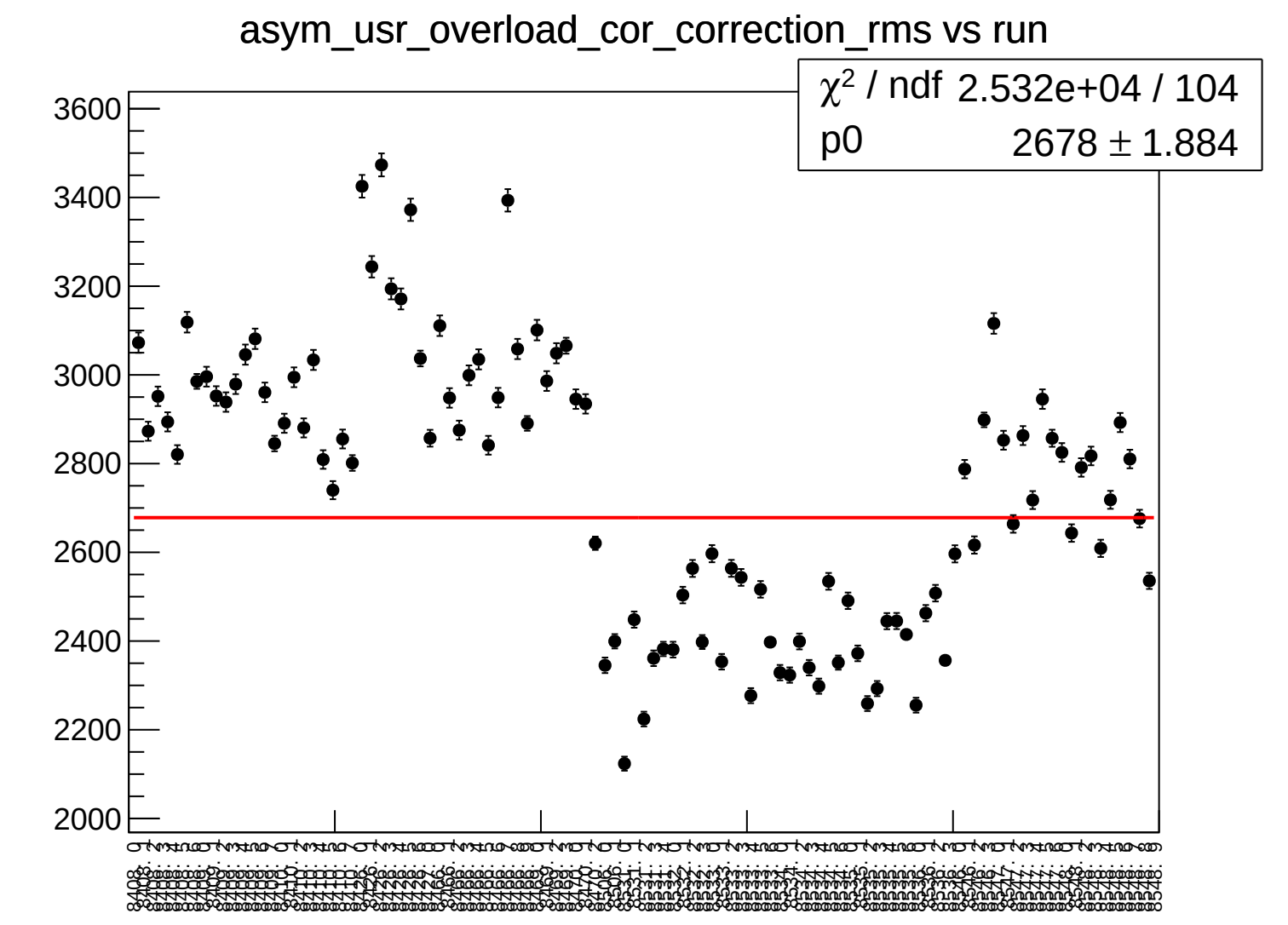

overload_cor_asym_usr_mean vs run
χ² / ndf 107.5 / 104
p0 2796 ± 1071
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 105
Mean 335.5
Std Dev 0
2
1
0
−1
−2

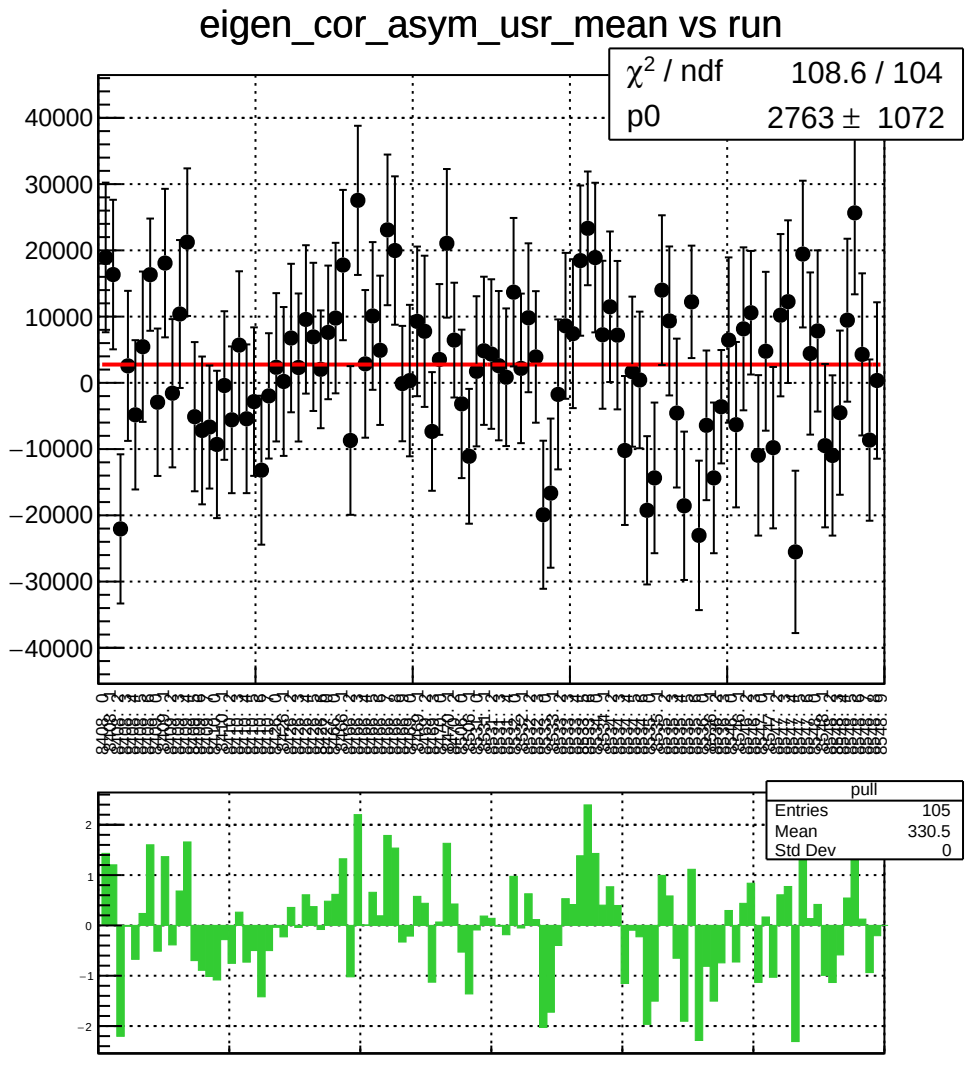

pull1D
Entries 105
Mean −0.0111
Std Dev 1.012
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

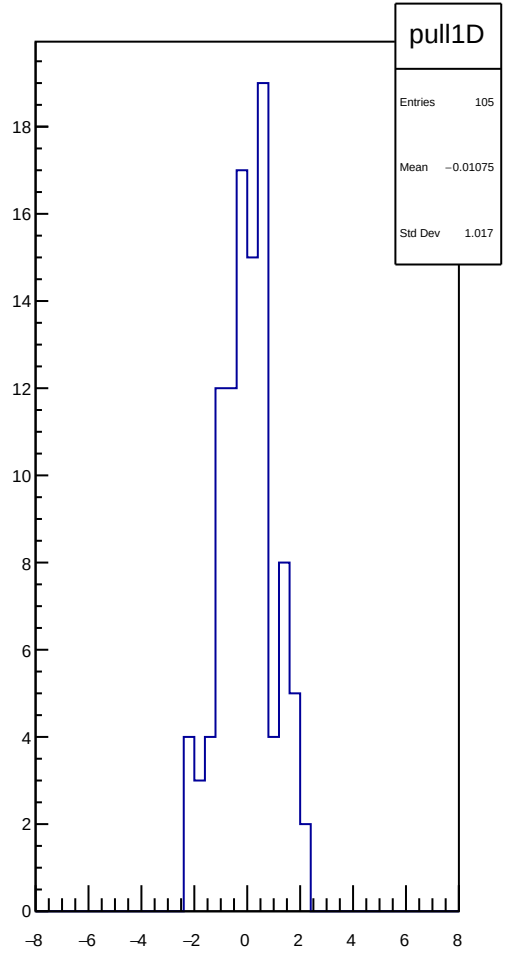

overload_cor_asym_usr_rms vs run
χ² / ndf 2256 / 104
p0 1082 ± 0.7571
1200
1180
1160
1140
1120
1100
1080
1060
1040
1020


asym_usr_overload_cor_correction_mean vs run
×10^3
χ^2 / ndf 103.5 / 104
p0 4210 ± 2664
100
50
0
−50
−100
pull
Entries 105
Mean 993.8
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 105
Mean 0.001116
Std Dev 0.9927
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 2.532e+04 / 104
p0 2678 ± 1.884
3600
3400
3200
3000
2800
2600
2400
2200
2000


eigen_cor_asym_usr_mean vs run
χ² / ndf 108.6 / 104
p0 2763 ± 1072
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 105
Mean 330.5
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 105
Mean −0.01075
Std Dev 1.017
18
16
14
12
10
8
6
4
2
0
−8
−6
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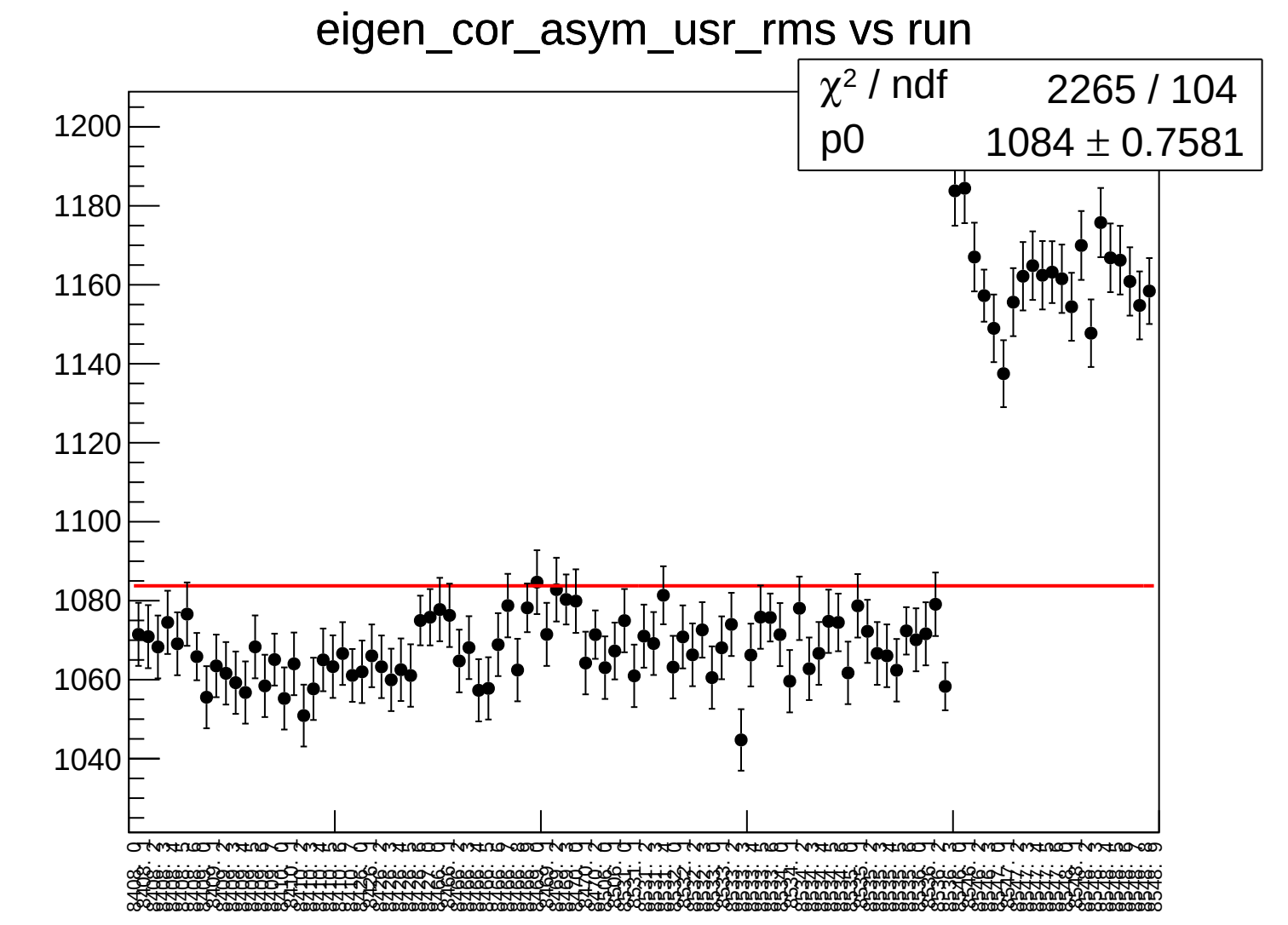
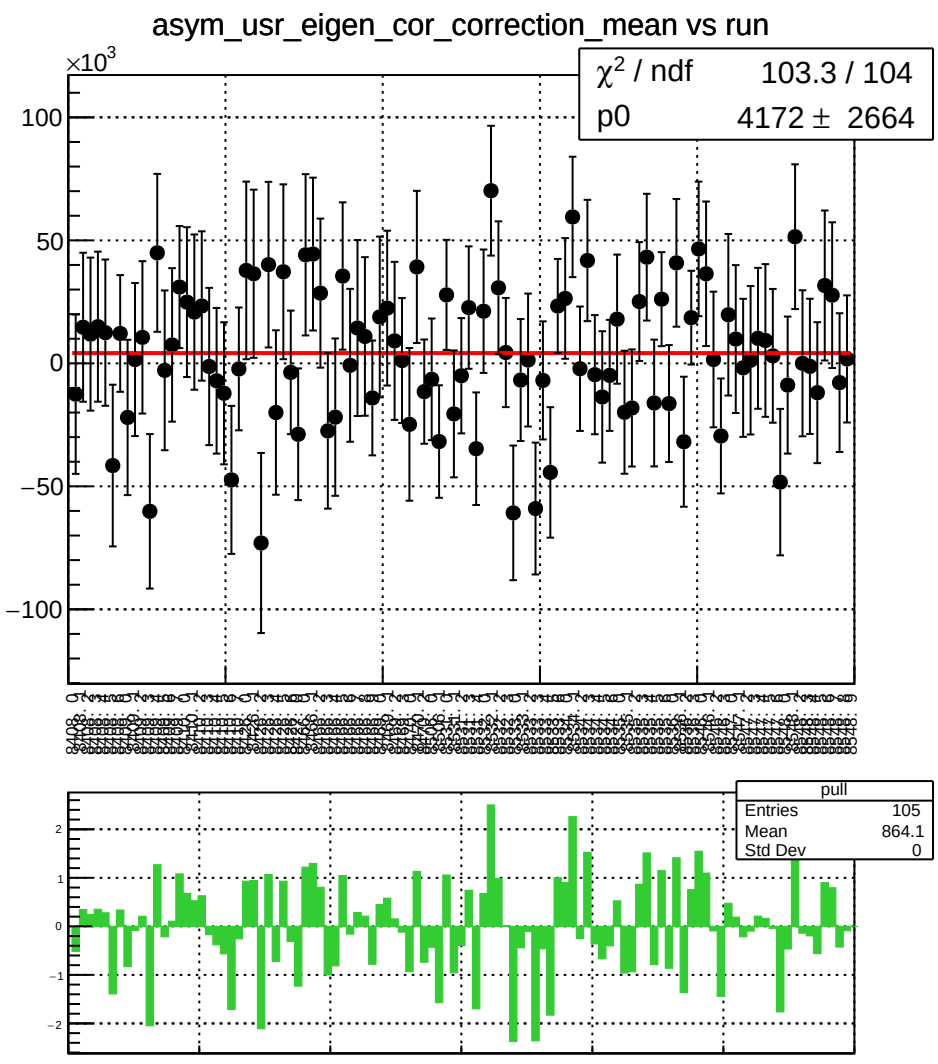
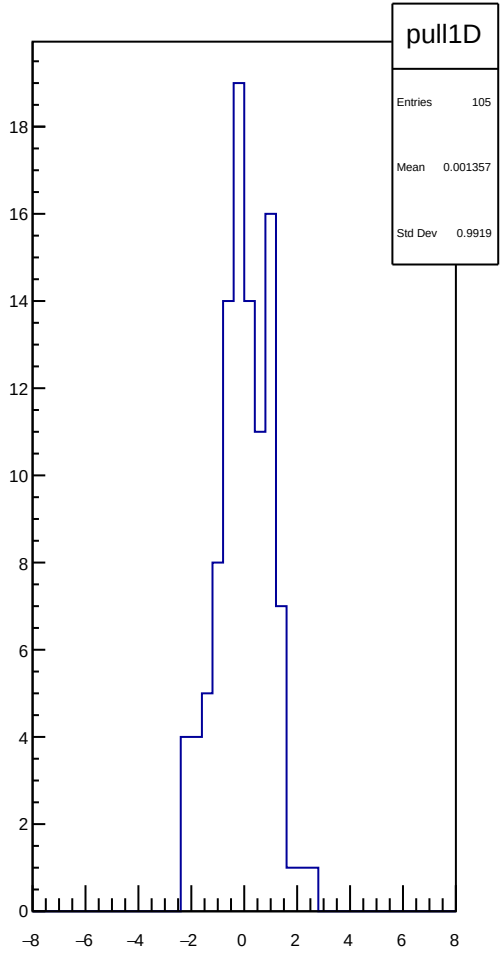
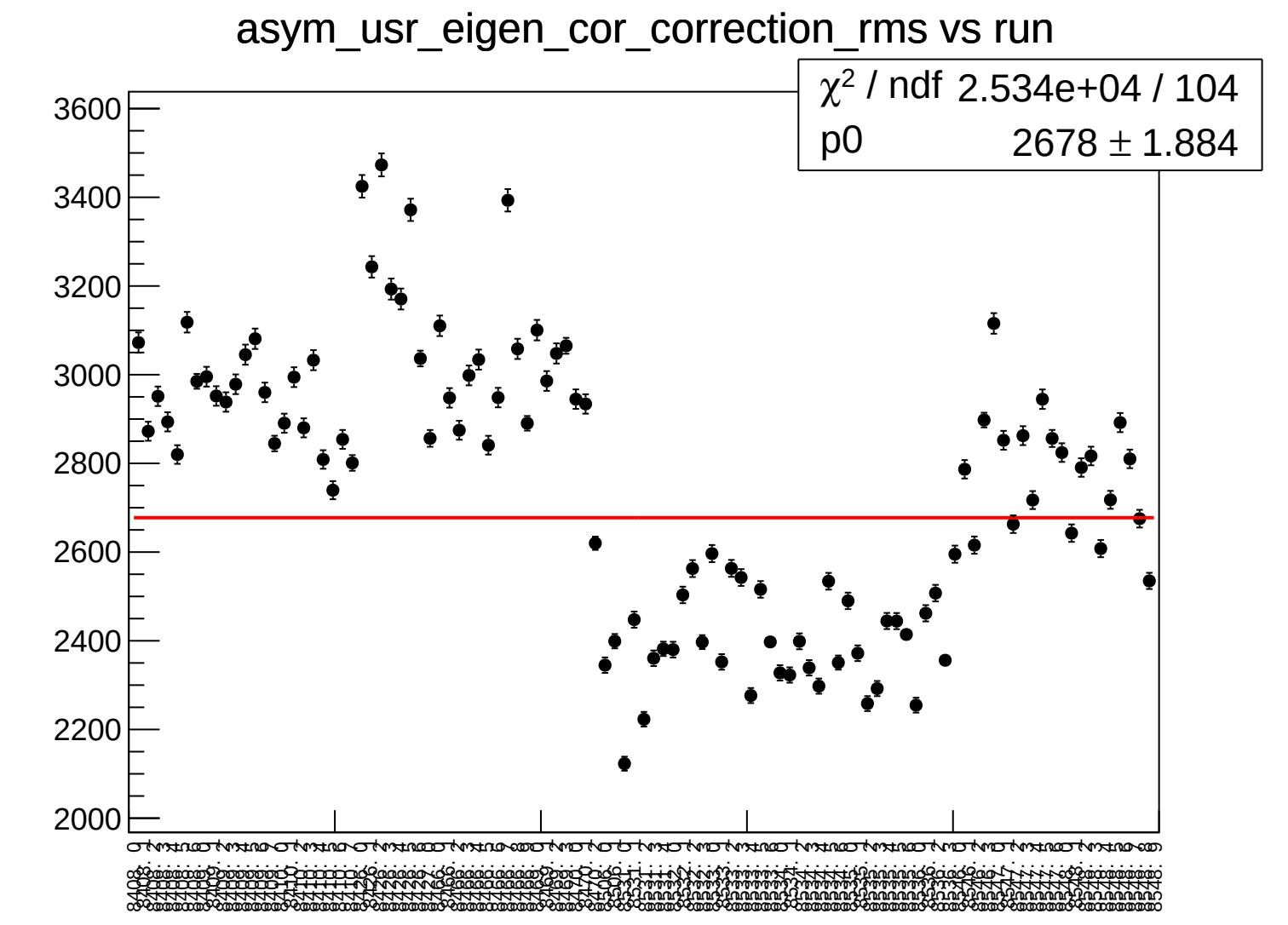
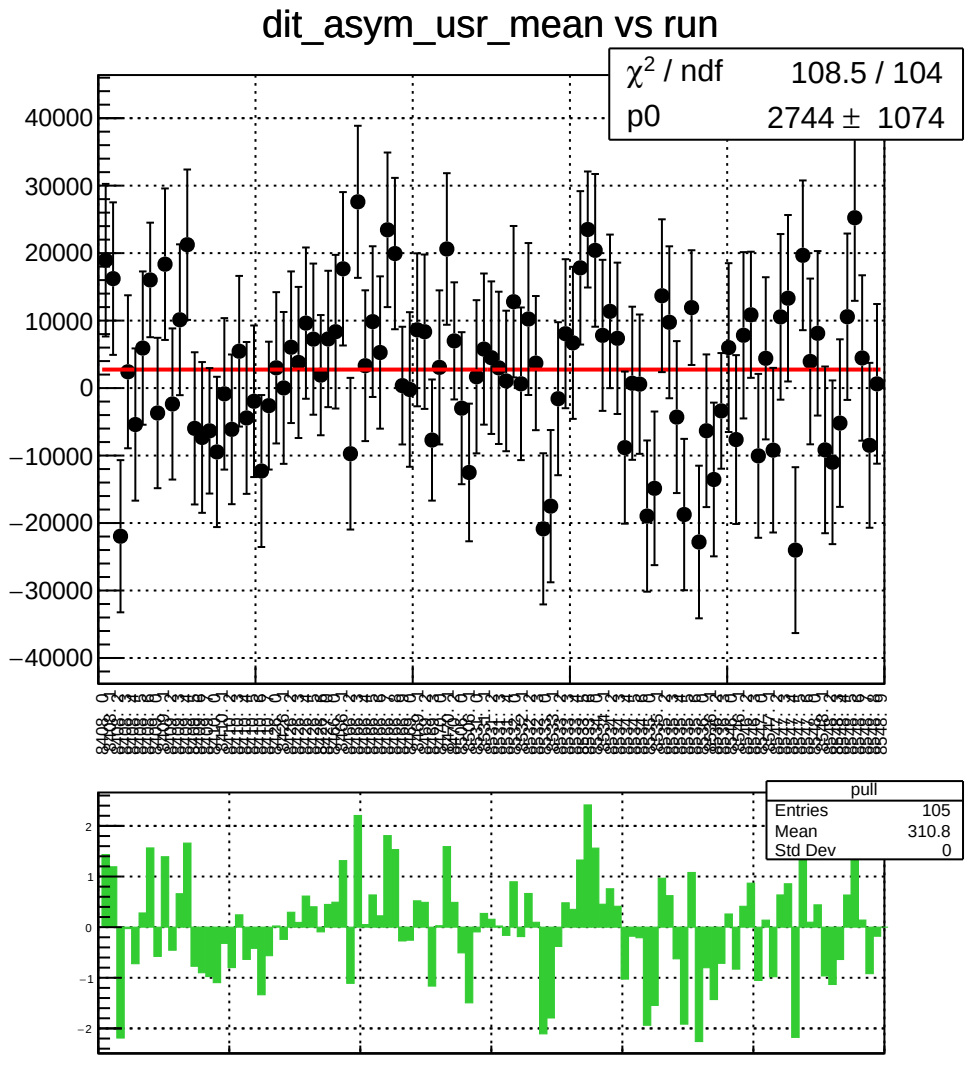
0
2
4
6
8

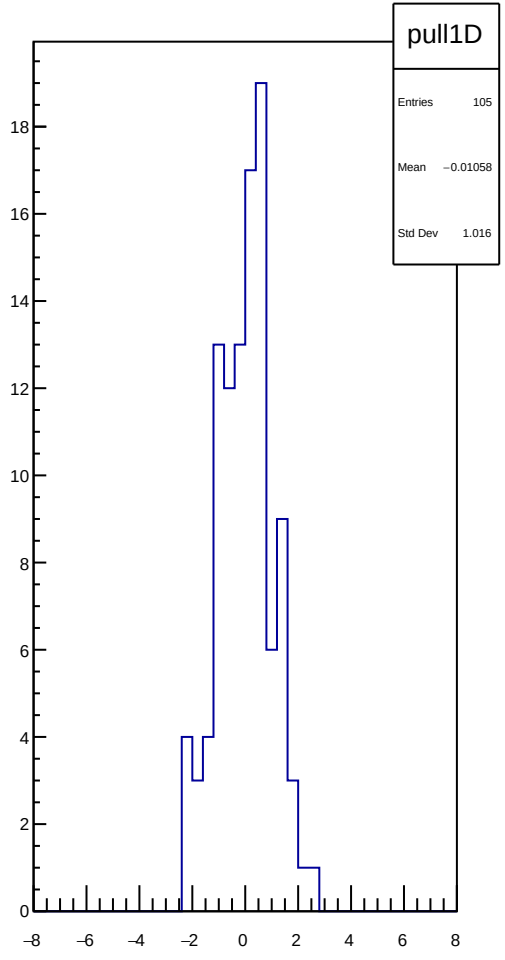

eigen_cor_asym_usr_rms vs run
χ² / ndf 2265 / 104
p0 1084 ± 0.7581
1200
1180
1160
1140
1120
1100
1080
1060
1040

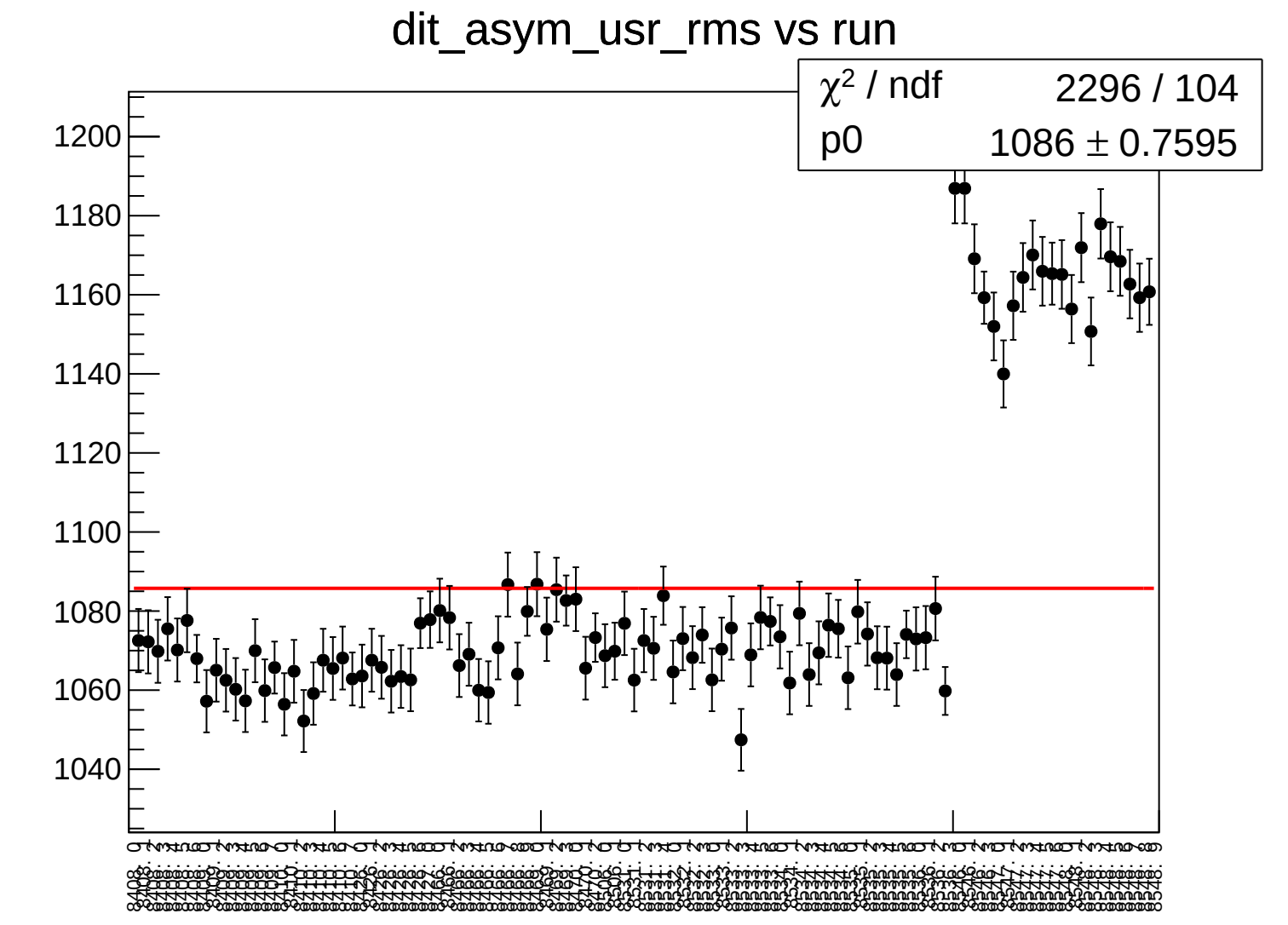

asym_usr_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 103.3 / 104
p0 4172 ± 2664
100
50
0
−50
−100
pull
Entries 105
Mean 864.1
Std Dev 0
2
1
0
−1
−2

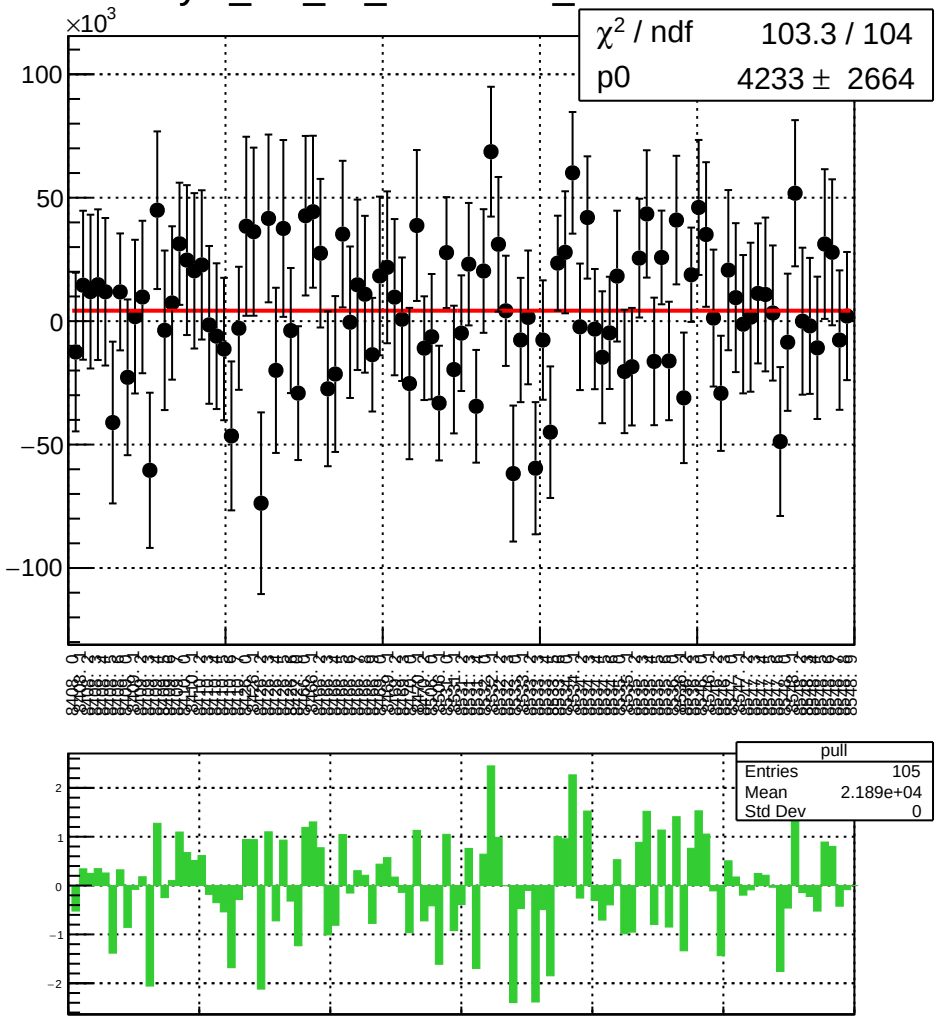

pull1D
Entries 105
Mean 0.001357
Std Dev 0.9919
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

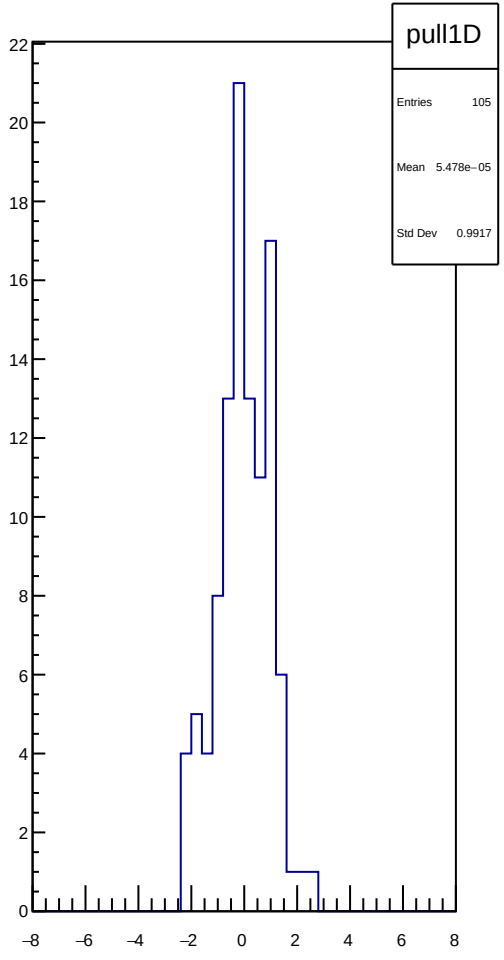

asym_usr_eigen_cor_correction_rms vs run
χ² / ndf 2.534e+04 / 104
p0 2678 ± 1.884
3600
3400
3200
3000
2800
2600
2400
2200
2000

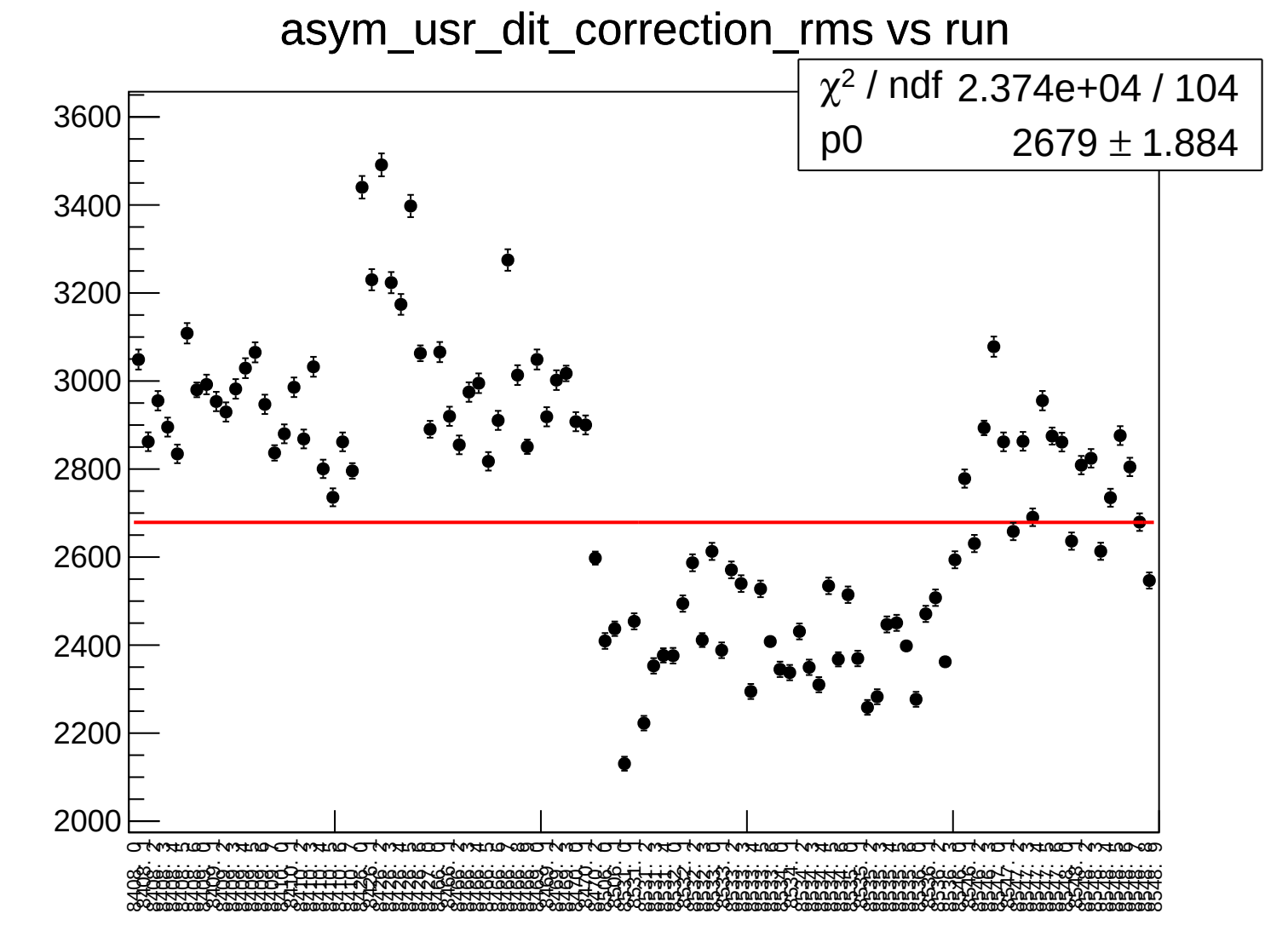

dit_asym_usr_mean vs run
χ² / ndf 108.5 / 104
p0 2744 ± 1074
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 105
Mean 310.8
Std Dev 0
2
1
0
−1
−2

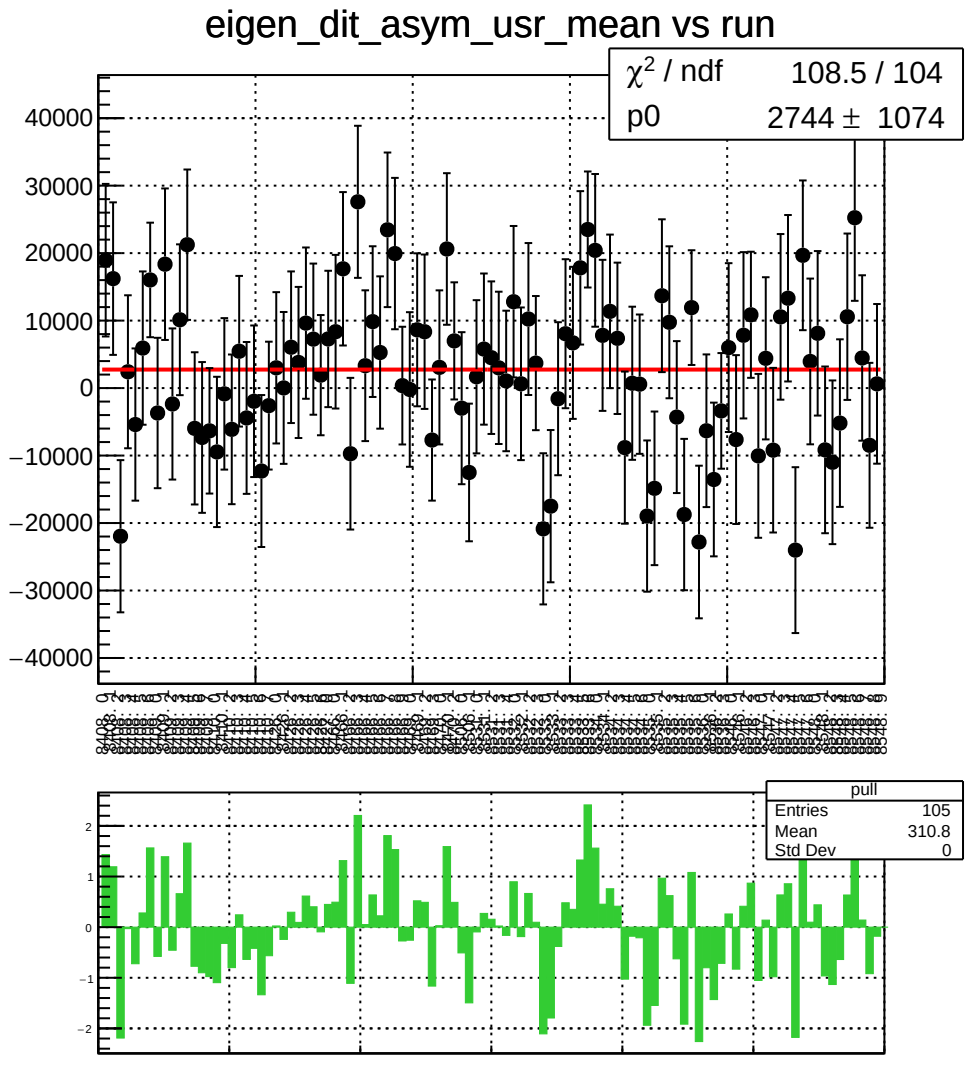

pull1D
Entries 105
Mean −0.01058
Std Dev 1.016
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

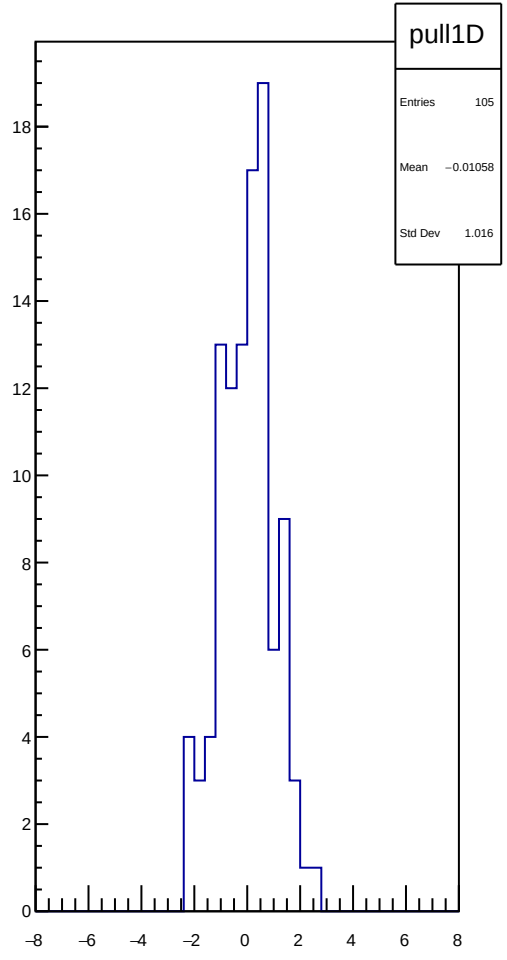

dit_asym_usr_rms vs run
χ² / ndf 2296 / 104
p0 1086 ± 0.7595
1200
1180
1160
1140
1120
1100
1080
1060
1040

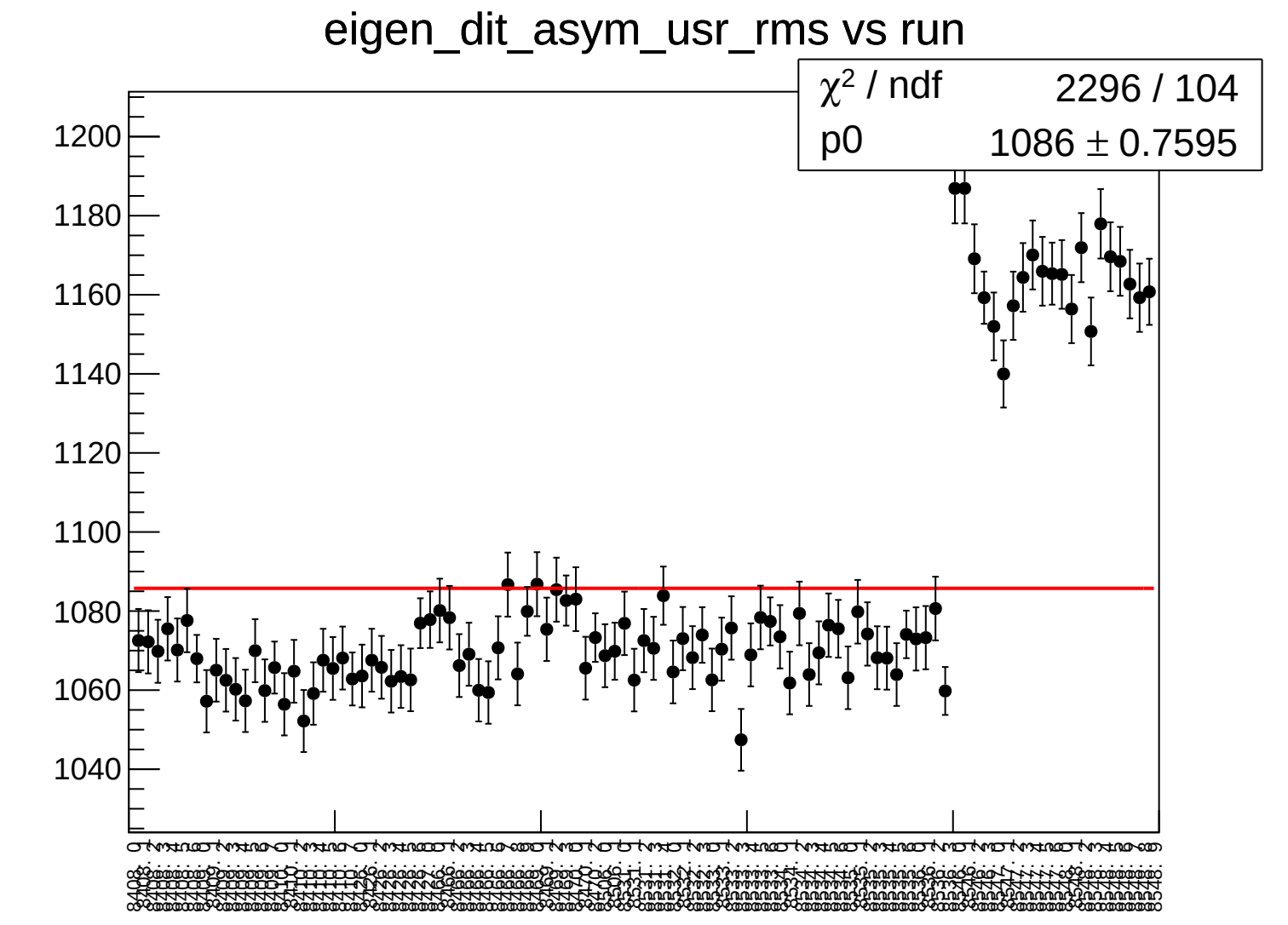

asym_usr_dit_correction_mean vs run
×10^3
χ² / ndf 103.3 / 104
p0 4233 ± 2664
100
50
0
−50
−100
pull
Entries 105
Mean 2.189e+04
Std Dev 0
2
1
0
−1
−2

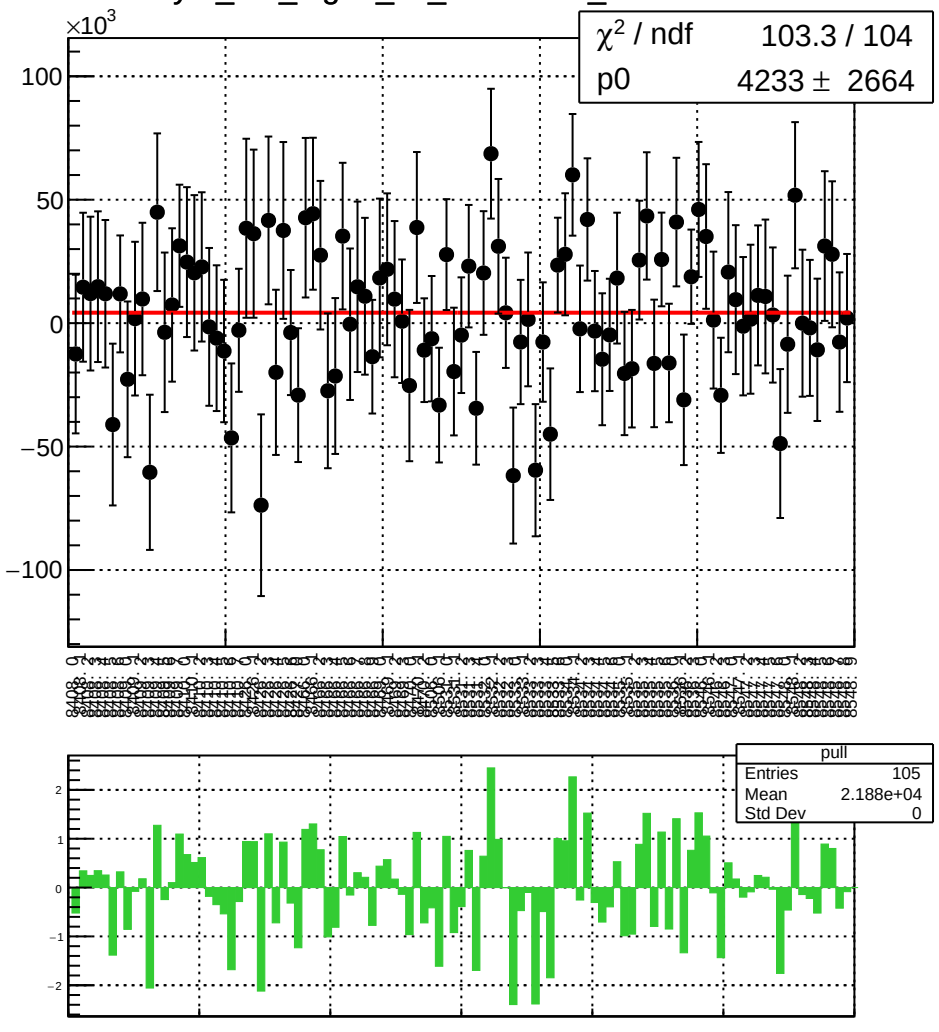

pull1D
Entries 105
Mean 5.478e−05
Std Dev 0.9917
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

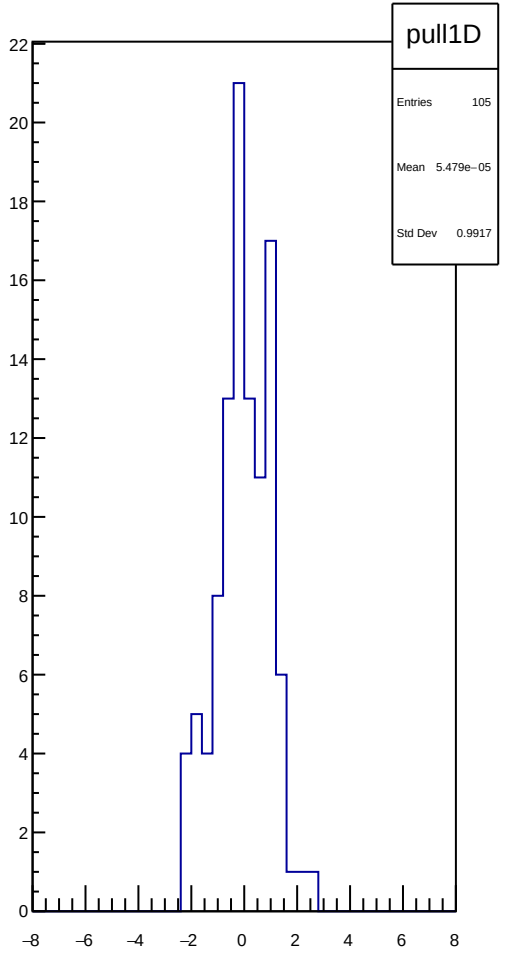

asym_usr_dit_correction_rms vs run
χ² / ndf 2.374e+04 / 104
p0 2679 ± 1.884
3600
3400
3200
3000
2800
2600
2400
2200
2000

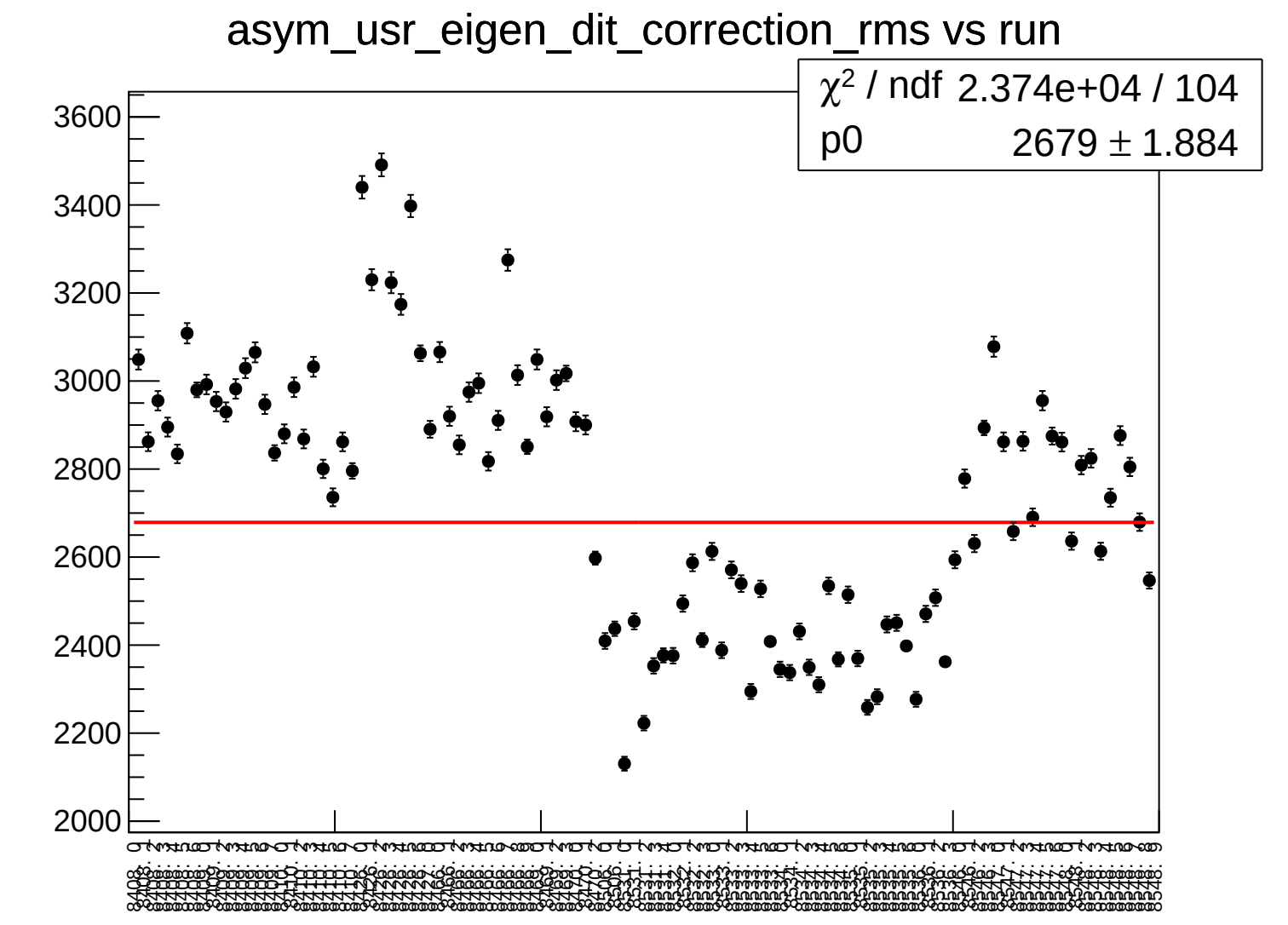

eigen_dit_asym_usr_mean vs run
χ² / ndf 108.5 / 104
p0 2744 ± 1074
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 105
Mean 310.8
Std Dev 0
2
1
0
−1
−2

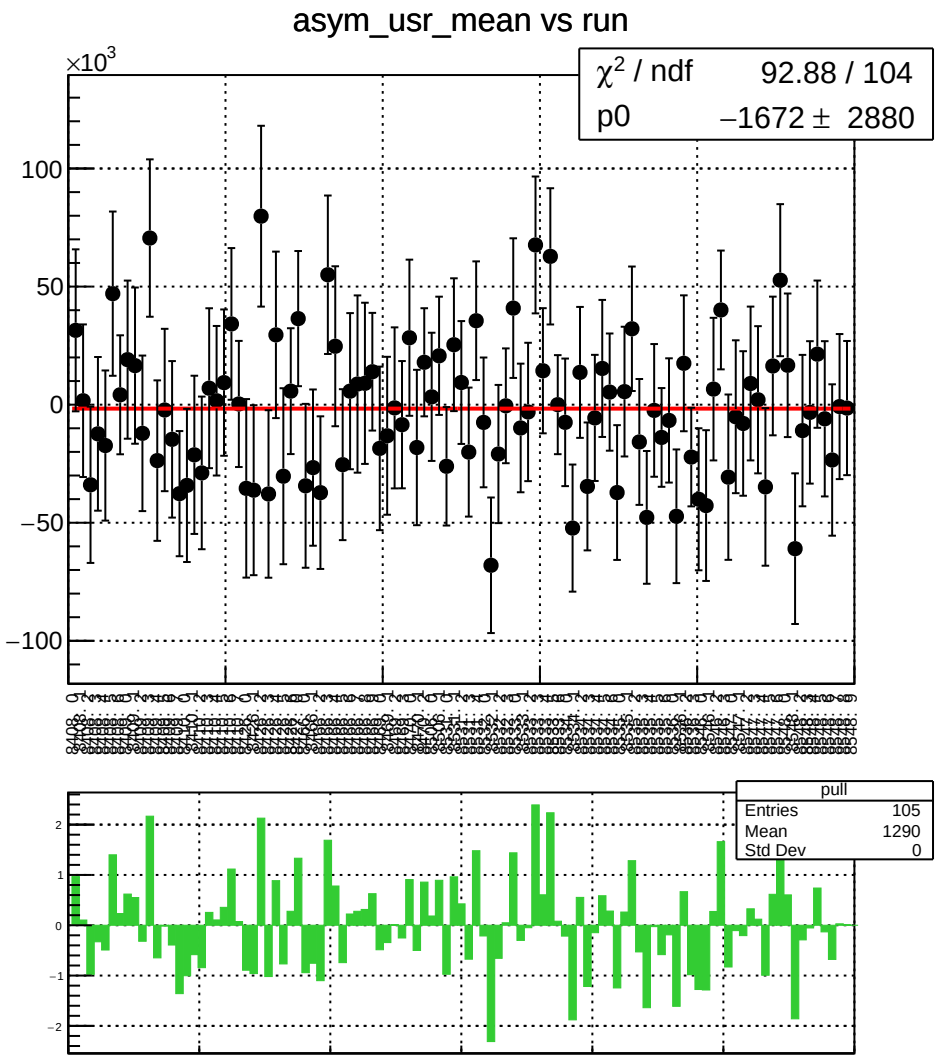

pull1D
Entries 105
Mean −0.01058
Std Dev 1.016
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

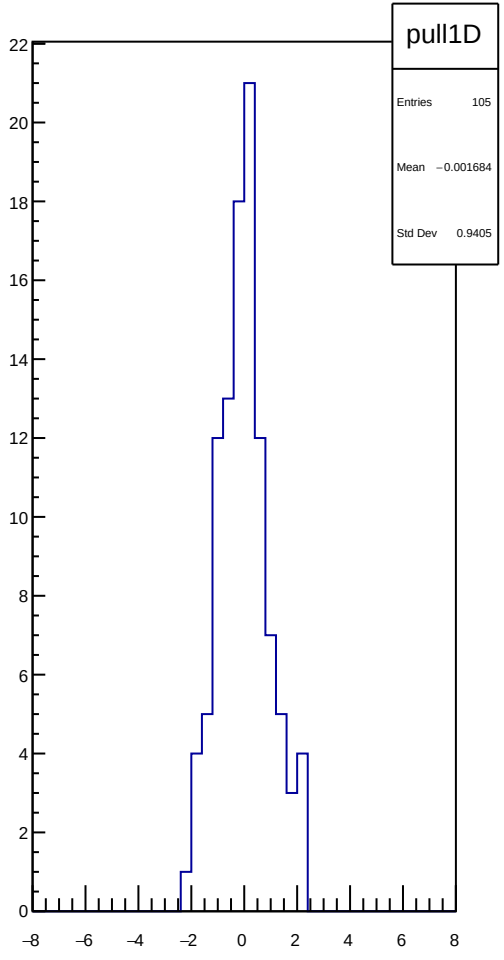

eigen_dit_asym_usr_rms vs run
χ² / ndf 2296 / 104
p0 1086 ± 0.7595
1200
1180
1160
1140
1120
1100
1080
1060
1040

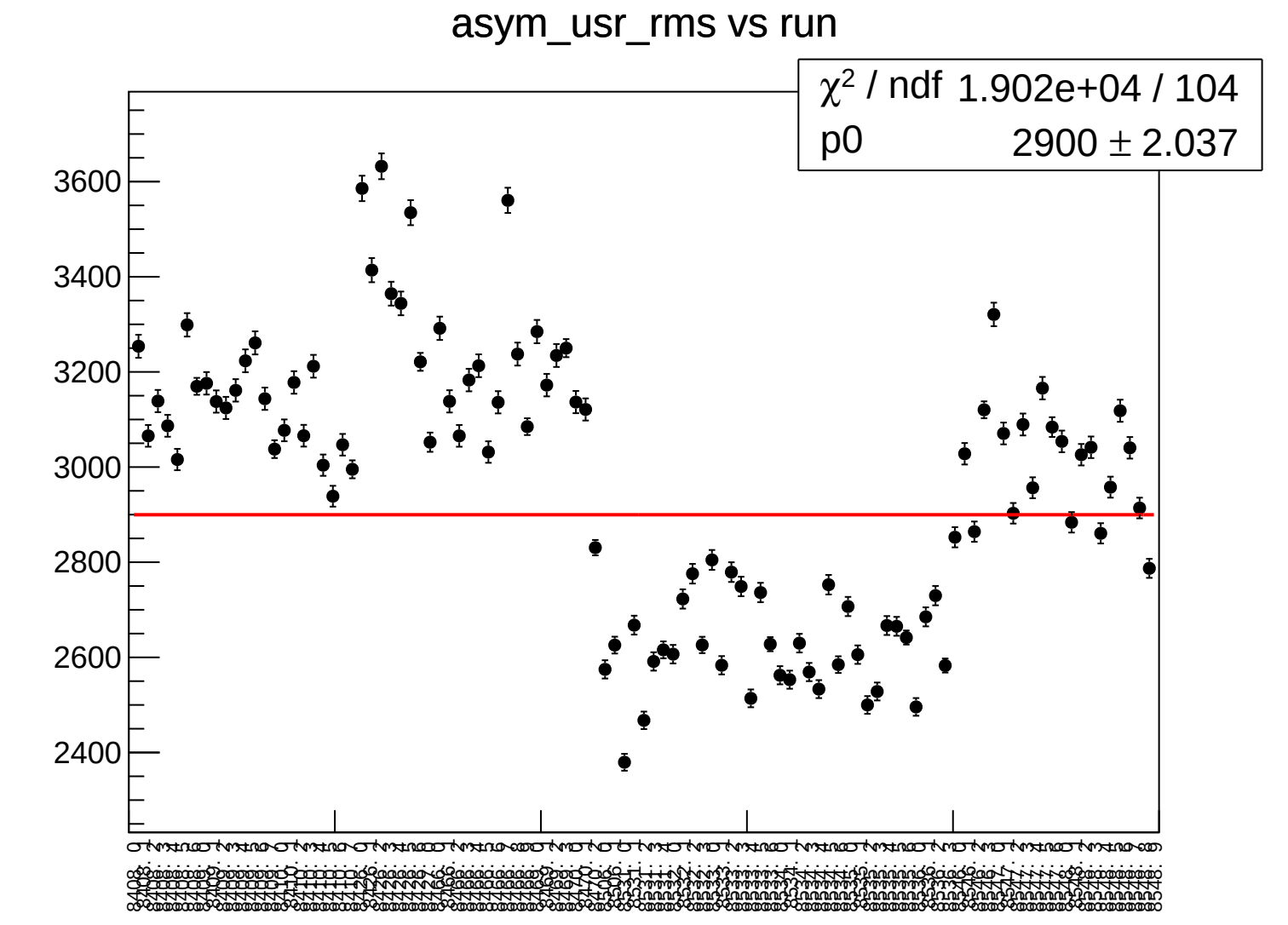

asym_usr_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 103.3 / 104
p0 4233 ± 2664
100
50
0
−50
−100
pull
Entries 105
Mean 2.188e+04
Std Dev 0
2
1
0
−1
−2

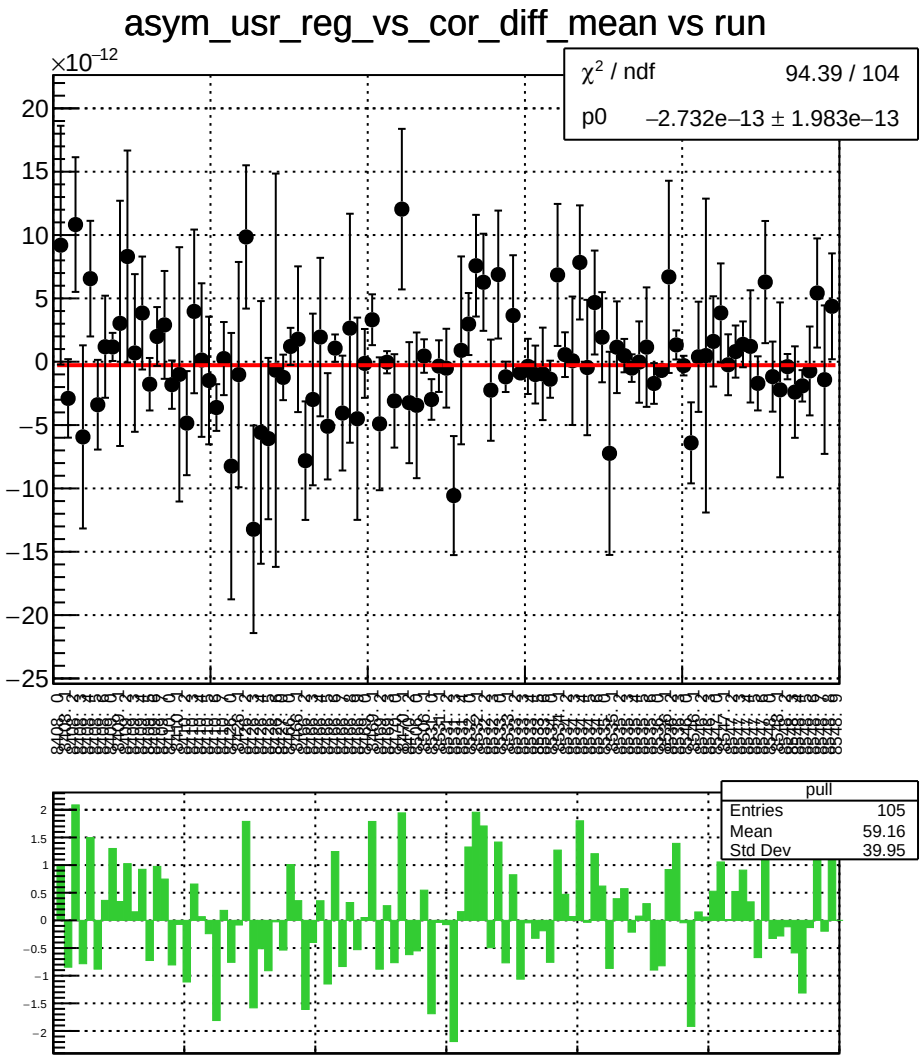

pull1D
Entries 105
Mean 5.479e−05
Std Dev 0.9917
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

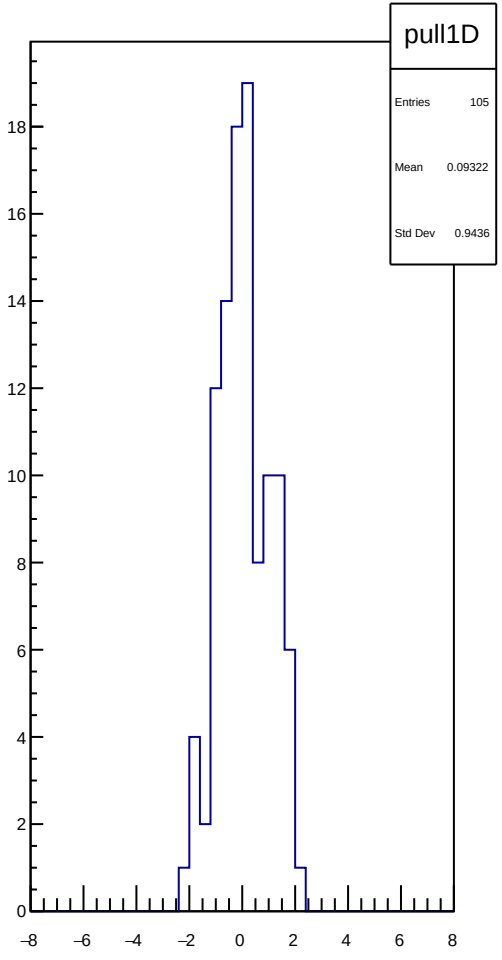

asym_usr_eigen_dit_correction_rms vs run
χ² / ndf 2.374e+04 / 104
p0 2679 ± 1.884
3600
3400
3200
3000
2800
2600
2400
2200
2000

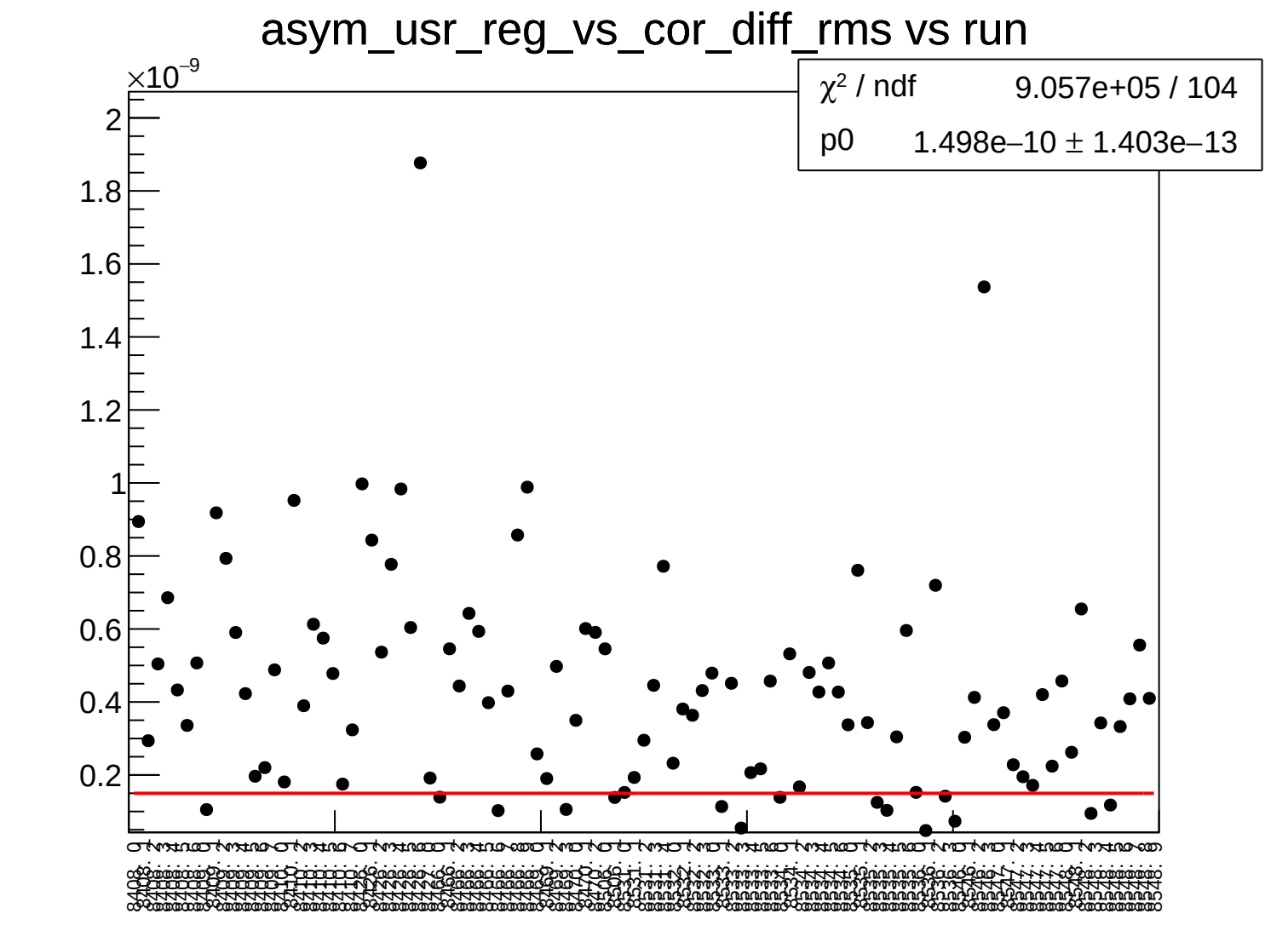

asym_usr_mean vs run
×10^3
χ^2 / ndf 92.88 / 104
p0 −1672 ± 2880
100
50
0
−50
−100
pull
Entries 105
Mean 1290
Std Dev 0
2
1
0
−1
−2

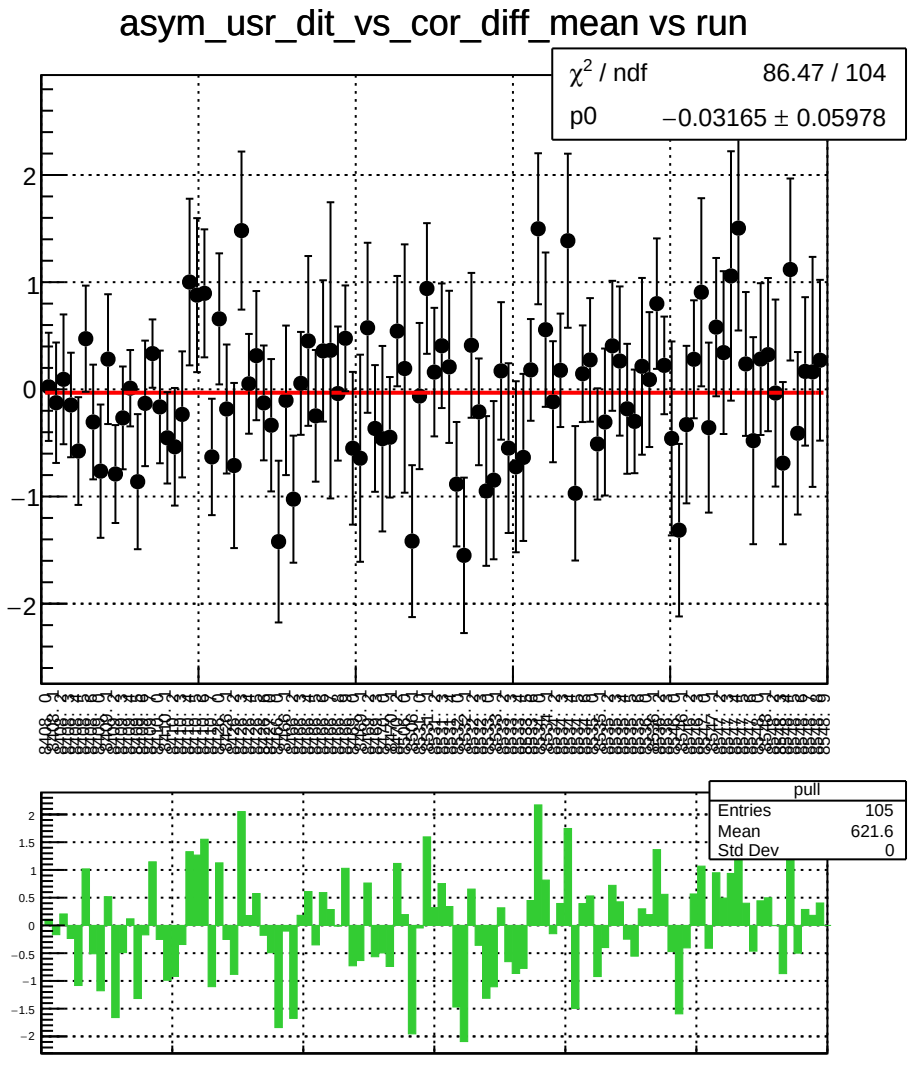

pull1D
Entries 105
Mean −0.001684
Std Dev 0.9405
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

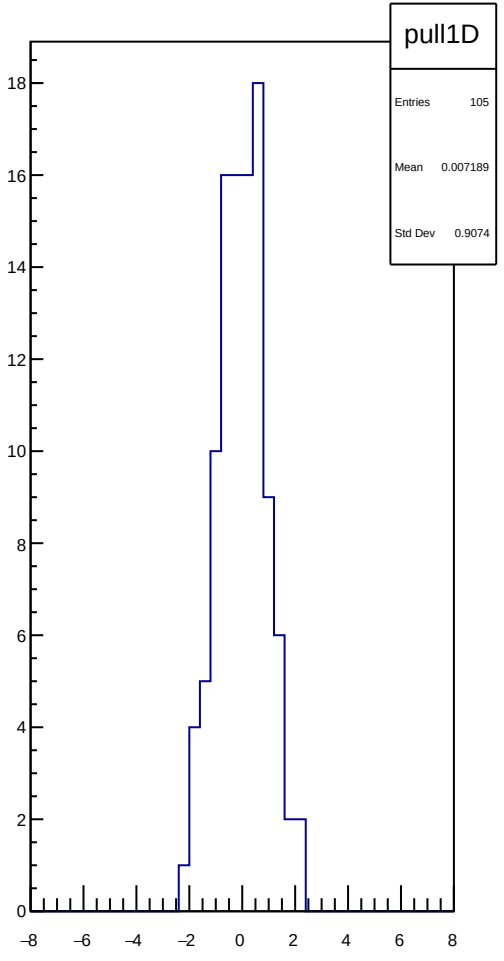

asym_usr_rms vs run
χ² / ndf 1.902e+04 / 104
p0 2900 ± 2.037
3600
3400
3200
3000
2800
2600
2400

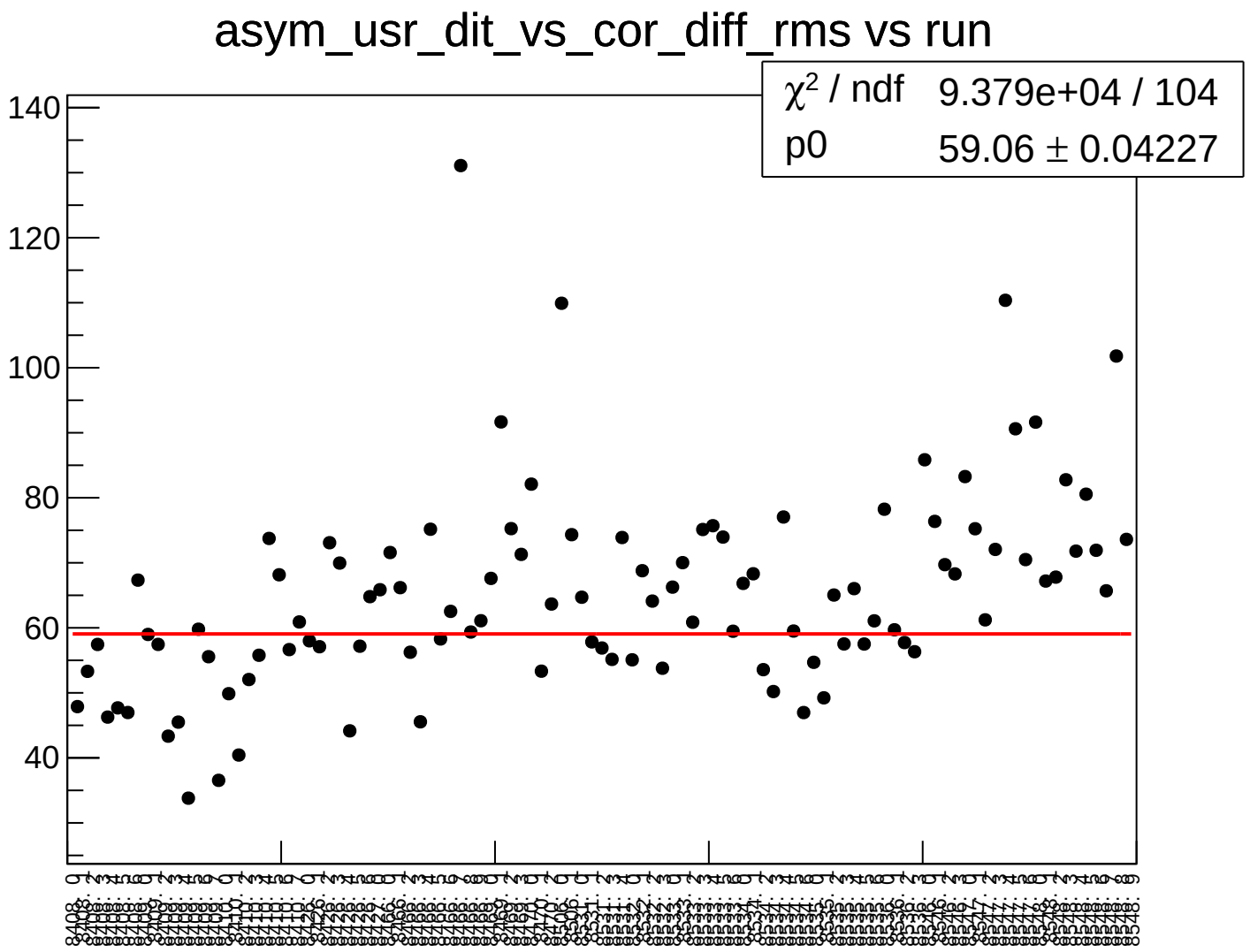

asym_usr_reg_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.39 / 104
p0 −2.732e−13 ± 1.983e−13
pull
Entries 105
Mean 59.16
Std Dev 39.95

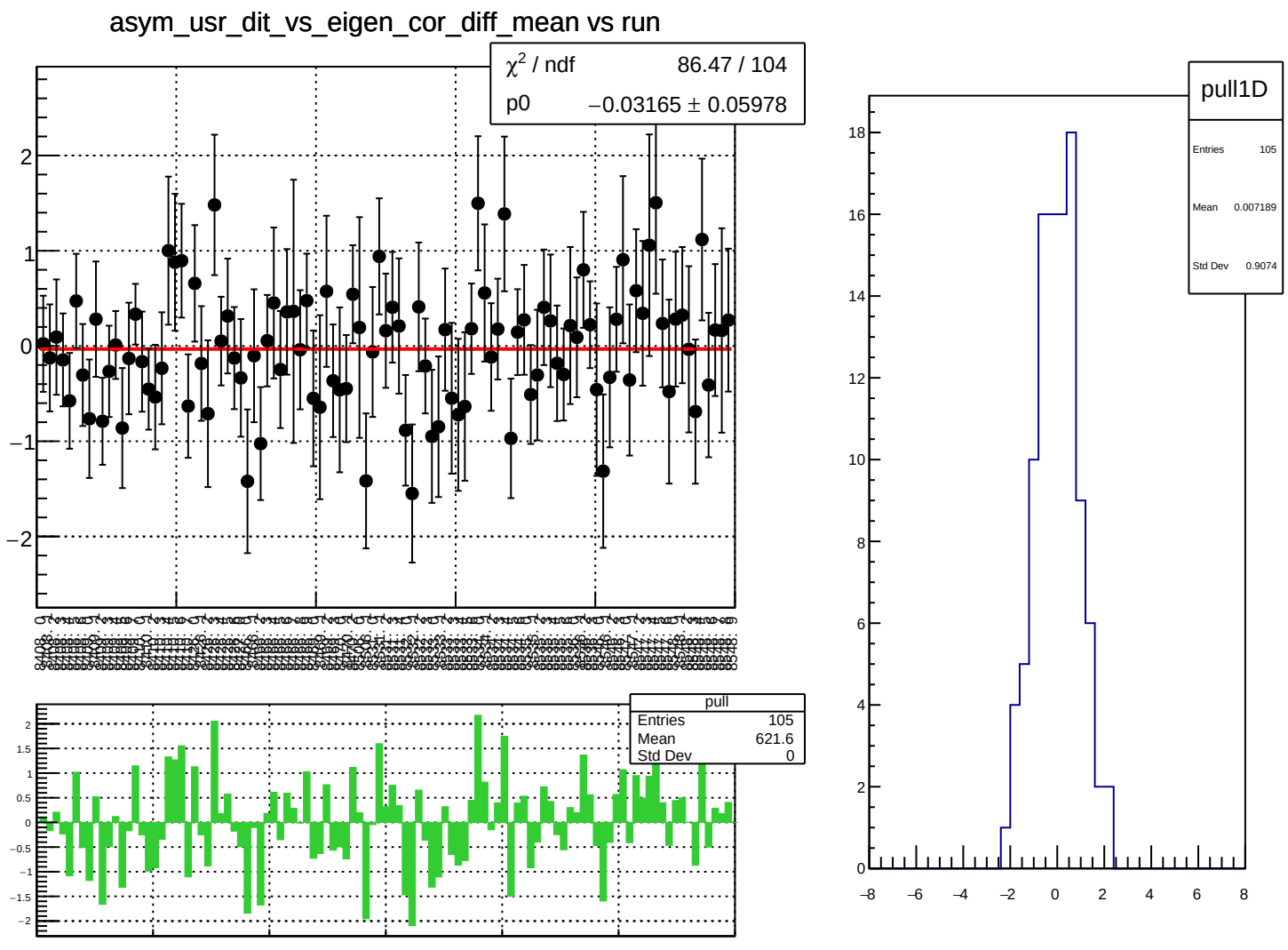

pull1D
Entries 105
Mean 0.09322
Std Dev 0.9436

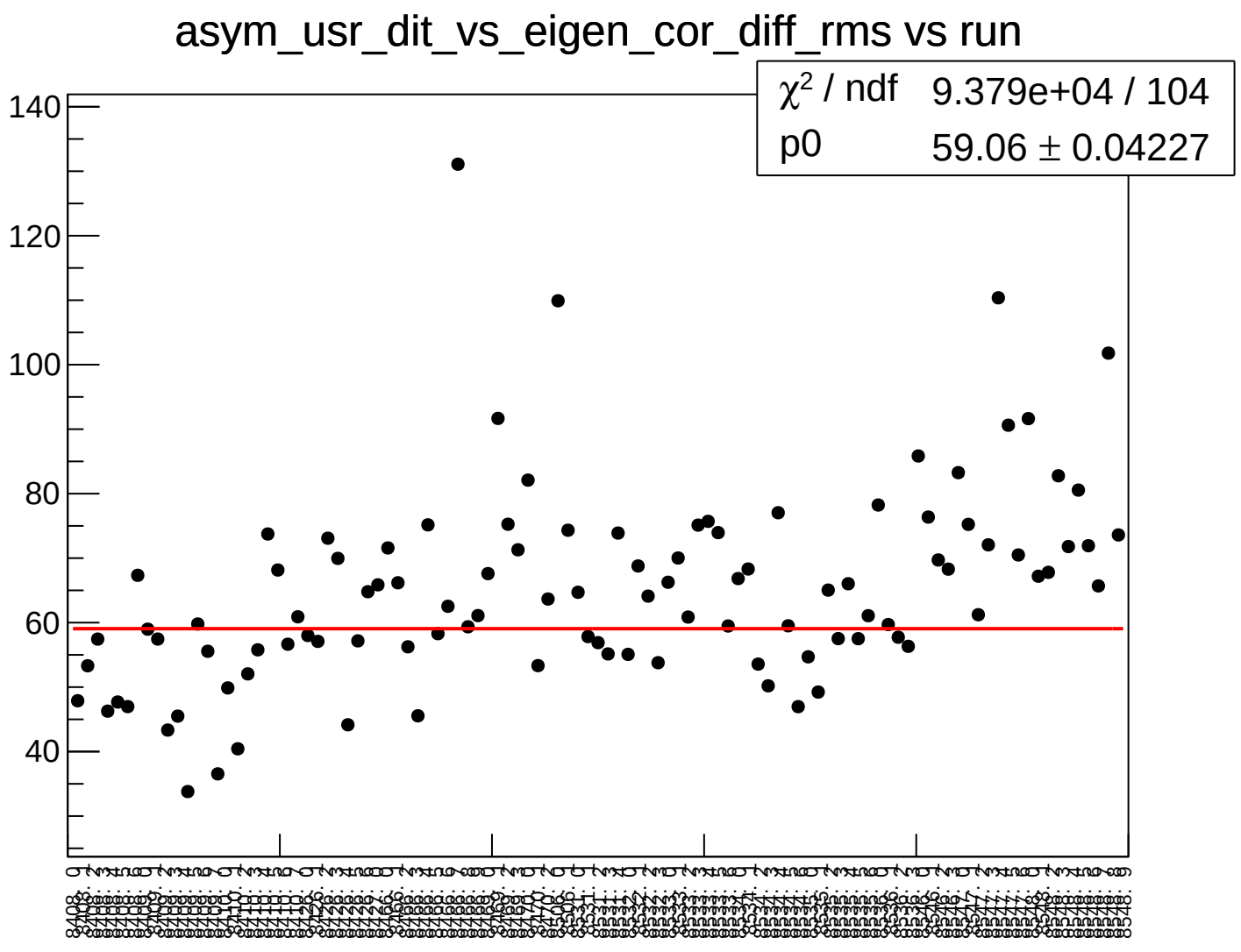

asym_usr_reg_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.057e+05 / 104
p0 1.498e−10 ± 1.403e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

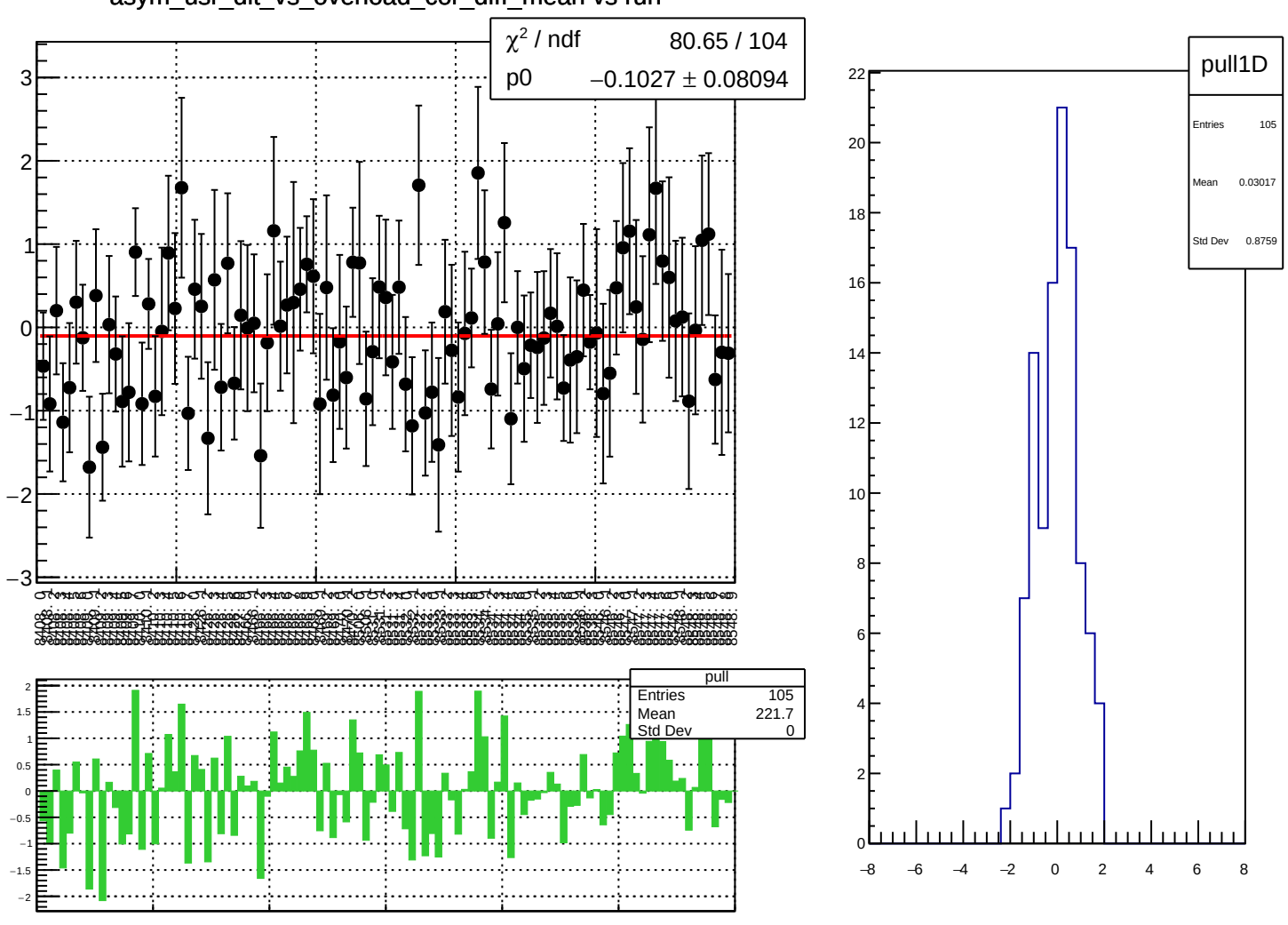

asym_usr_dit_vs_cor_diff_mean vs run
χ² / ndf 86.47 / 104
p0 −0.03165 ± 0.05978
pull
Entries 105
Mean 621.6
Std Dev 0

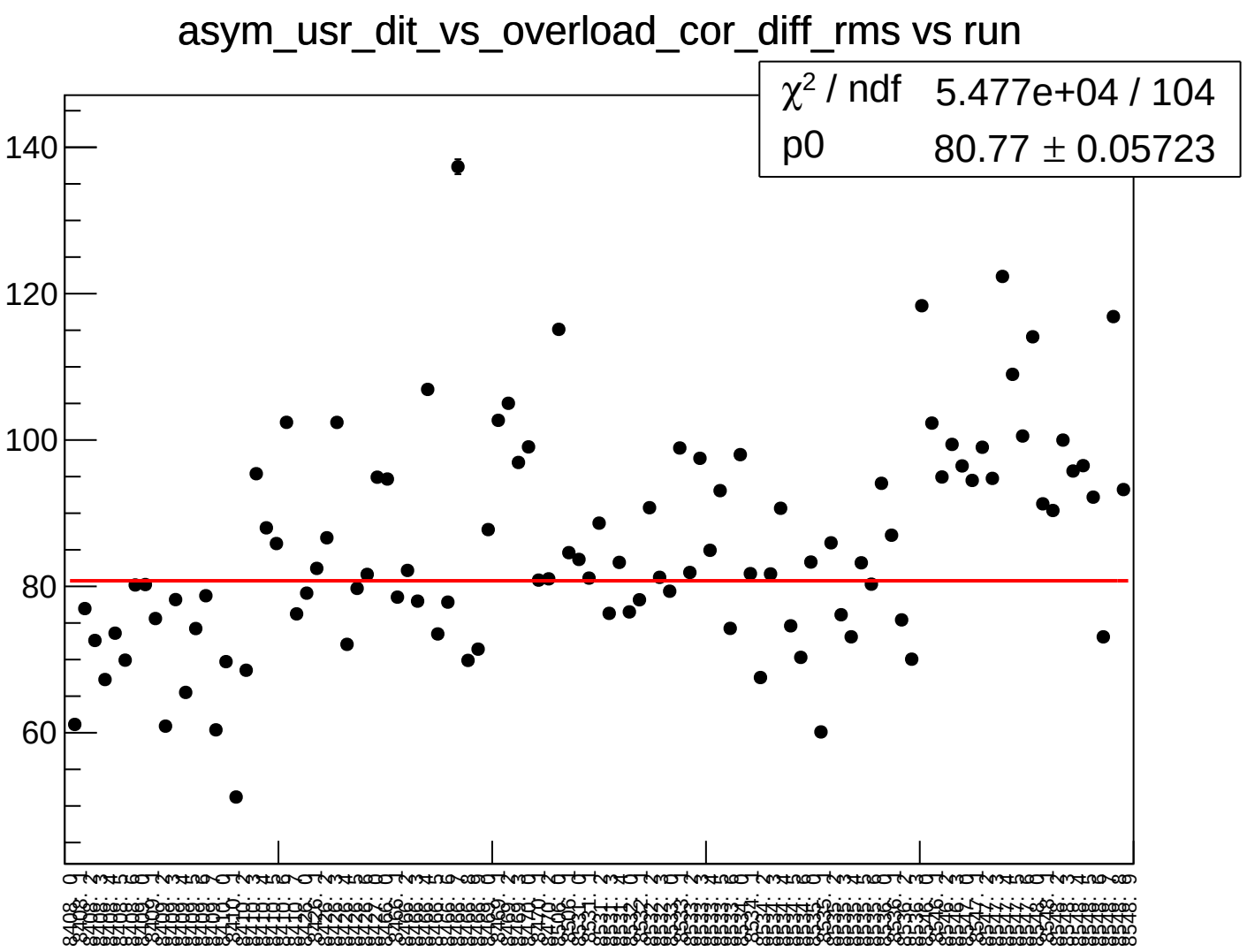

pull1D
Entries 105
Mean 0.007189
Std Dev 0.9074

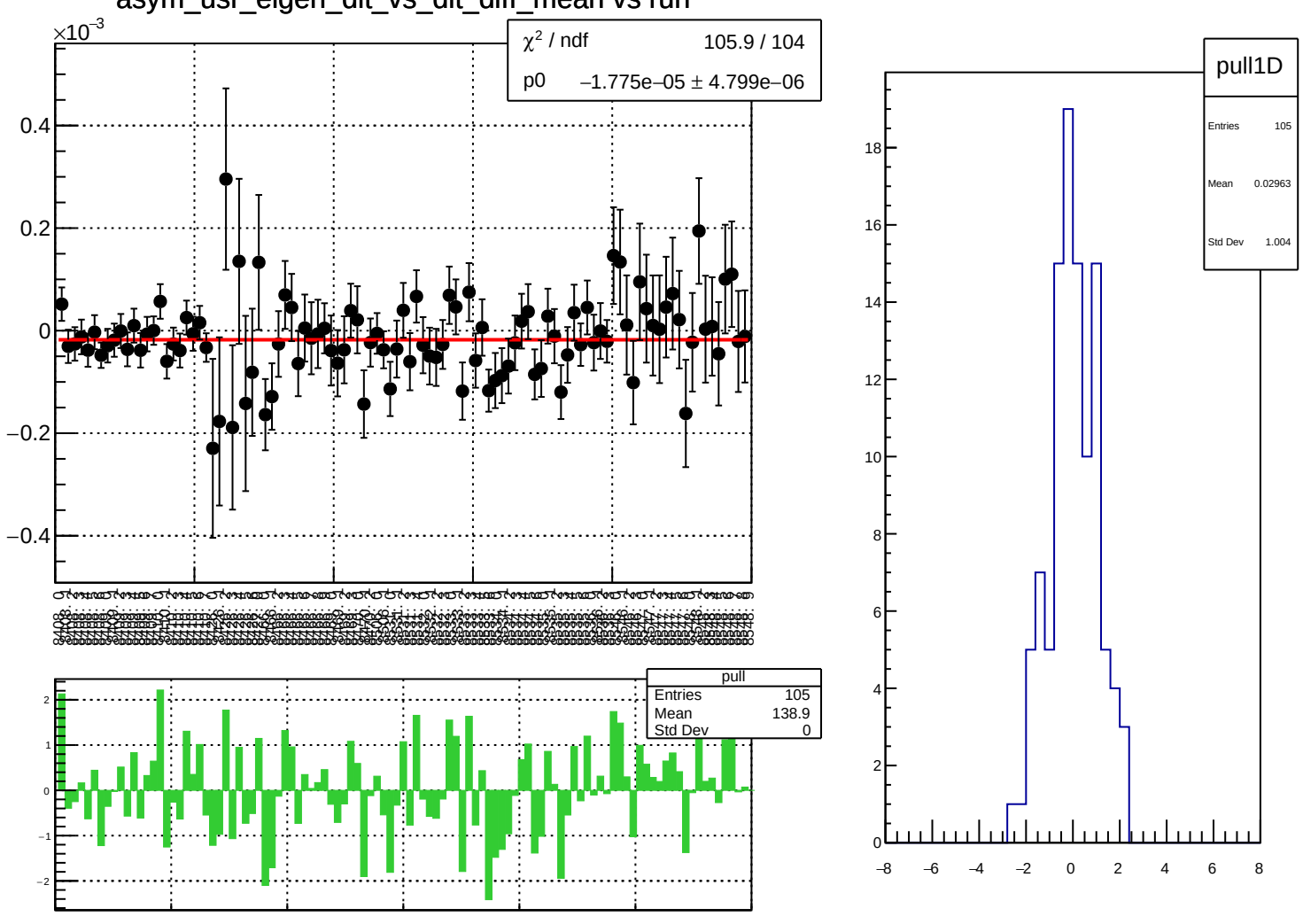

asym_usr_dit_vs_cor_diff_rms vs run
χ² / ndf 9.379e+04 / 104
p0 59.06 ± 0.04227
140
120
100
80
60
40

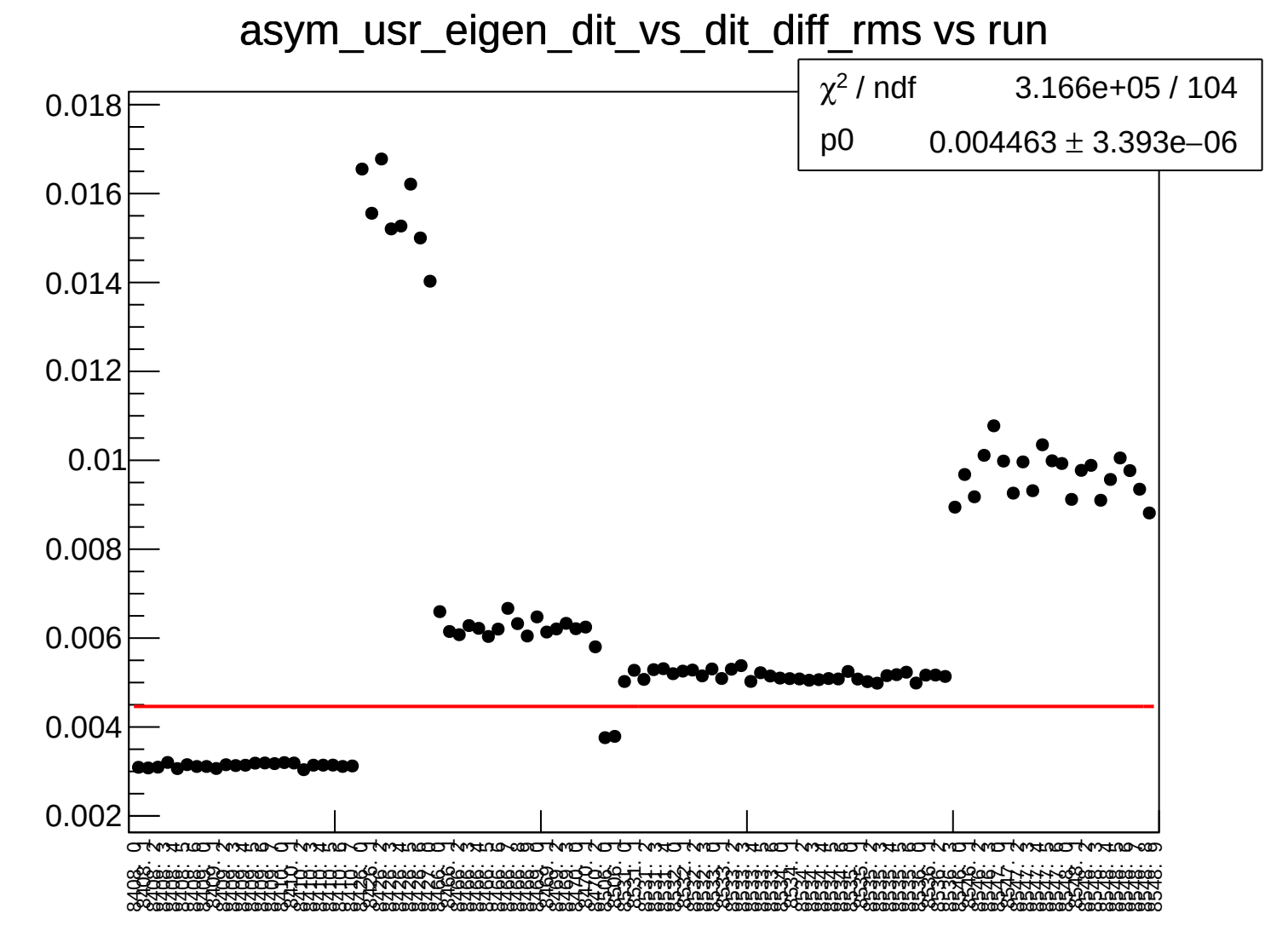

asym_usr_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.47 / 104
p0 −0.03165 ± 0.05978
pull
Entries 105
Mean 621.6
Std Dev 0
pull1D
Entries 105
Mean 0.007189
Std Dev 0.9074

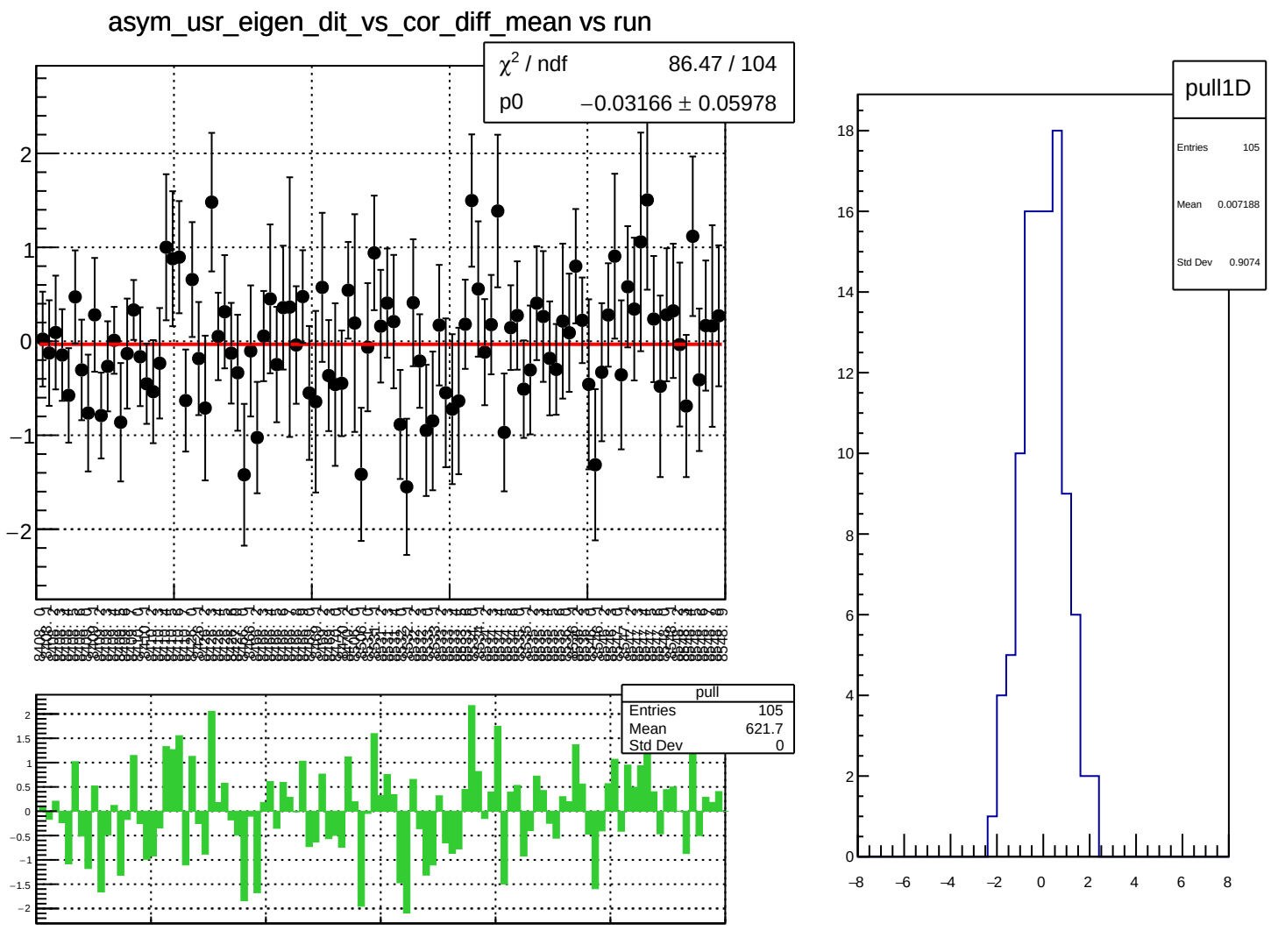

asym_usr_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.379e+04 / 104
p0 59.06 ± 0.04227
140
120
100
80
60
40

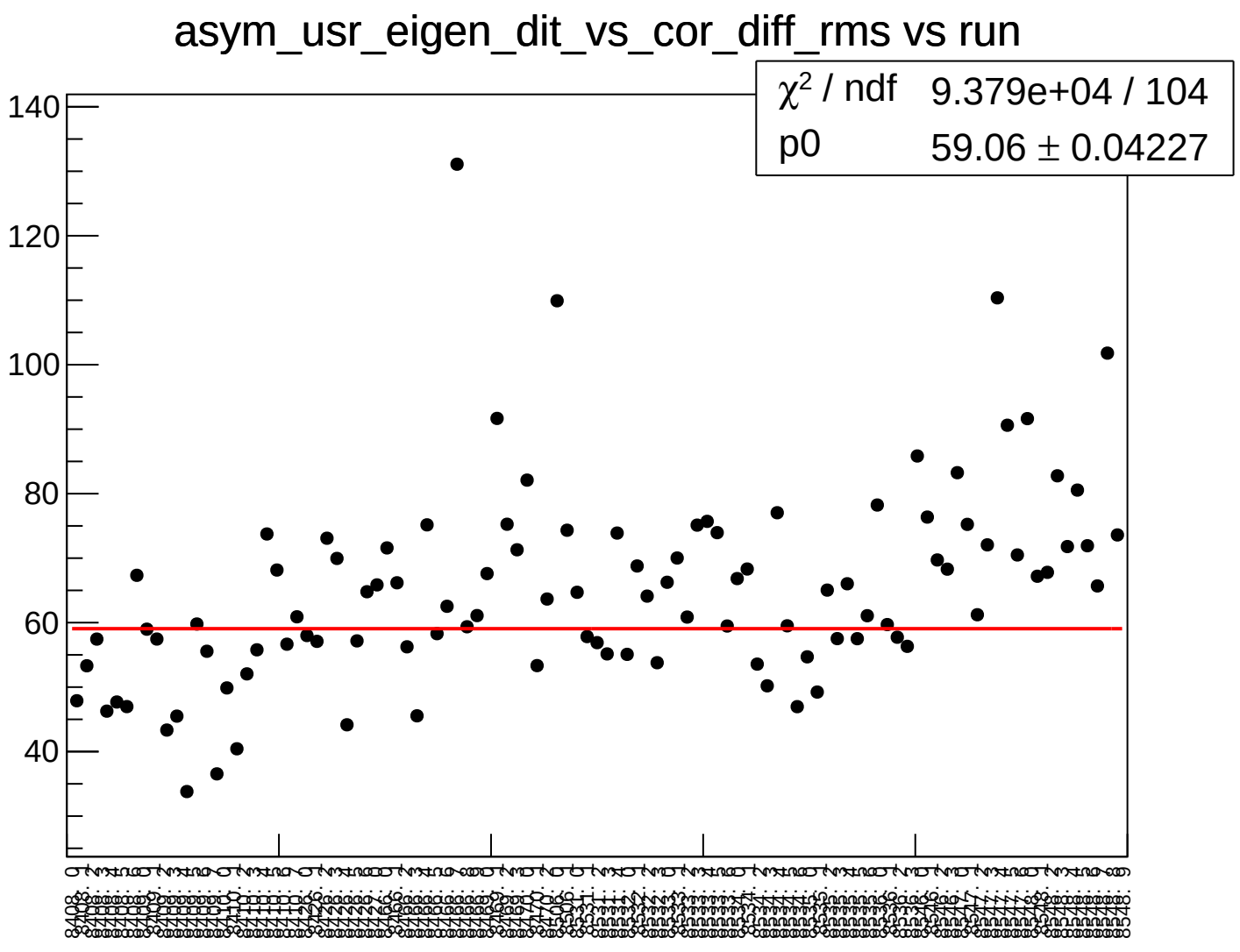

asym_usr_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 80.65 / 104
p0 −0.1027 ± 0.08094
pull
Entries 105
Mean 221.7
Std Dev 0
pull1D
Entries 105
Mean 0.03017
Std Dev 0.8759

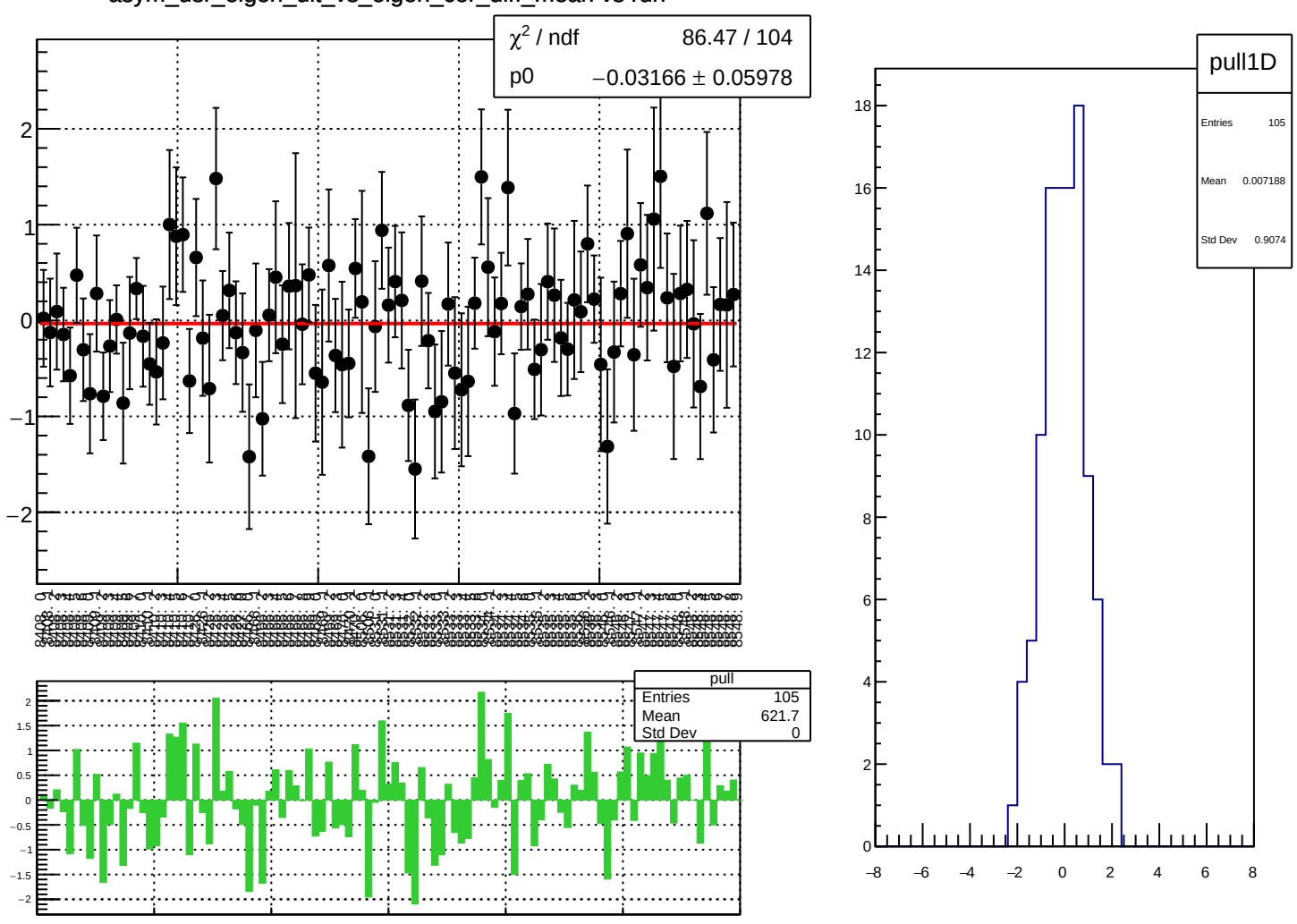

asym_usr_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 5.477e+04 / 104
p0 80.77 ± 0.05723
140
120
100
80
60

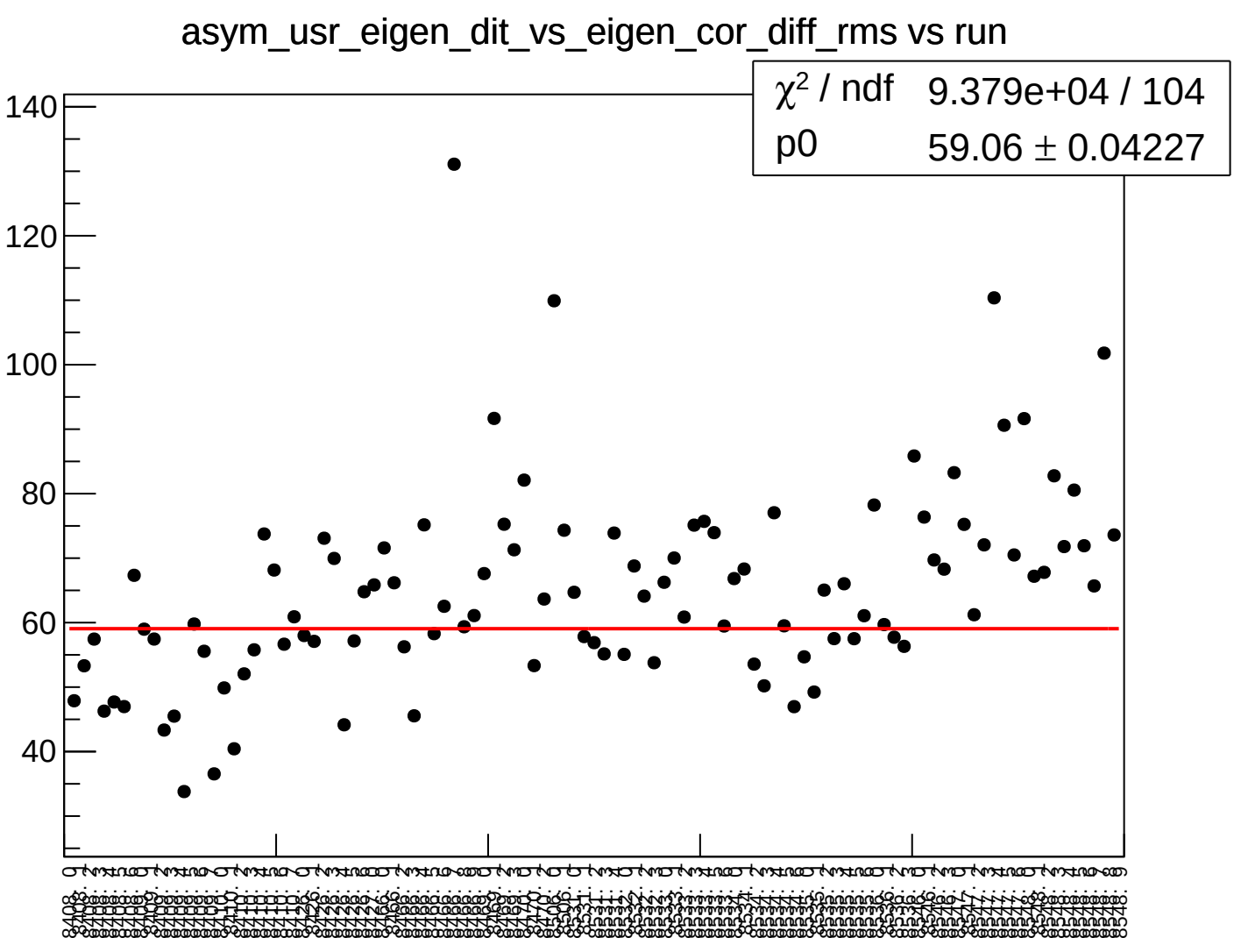

asym_usr_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 105.9 / 104
p0 −1.775e−05 ± 4.799e−06
0.4
0.2
0
−0.2
−0.4
pull
Entries 105
Mean 138.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.02963
Std Dev 1.004
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

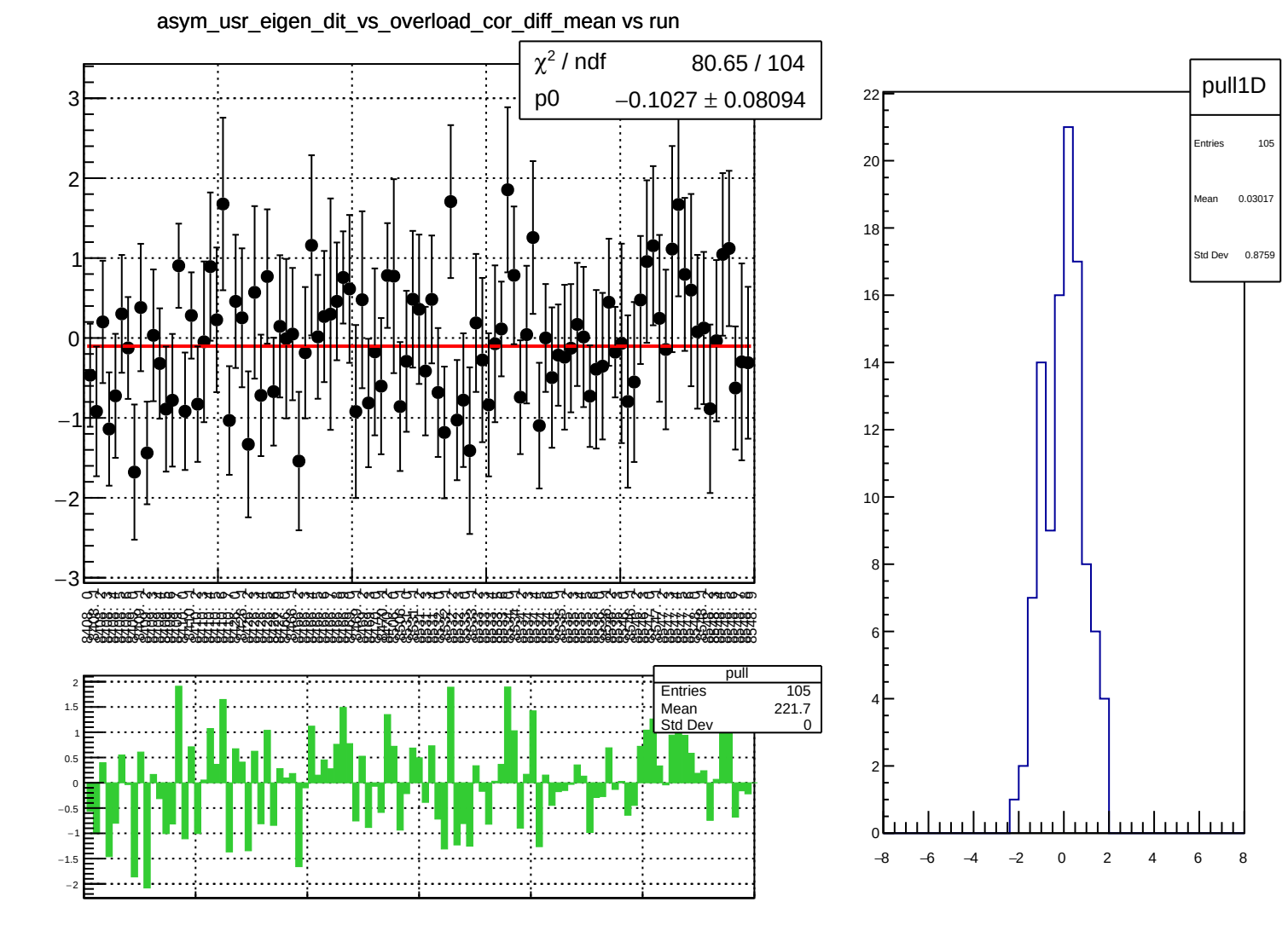

asym_usr_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.166e+05 / 104
p0 0.004463 ± 3.393e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

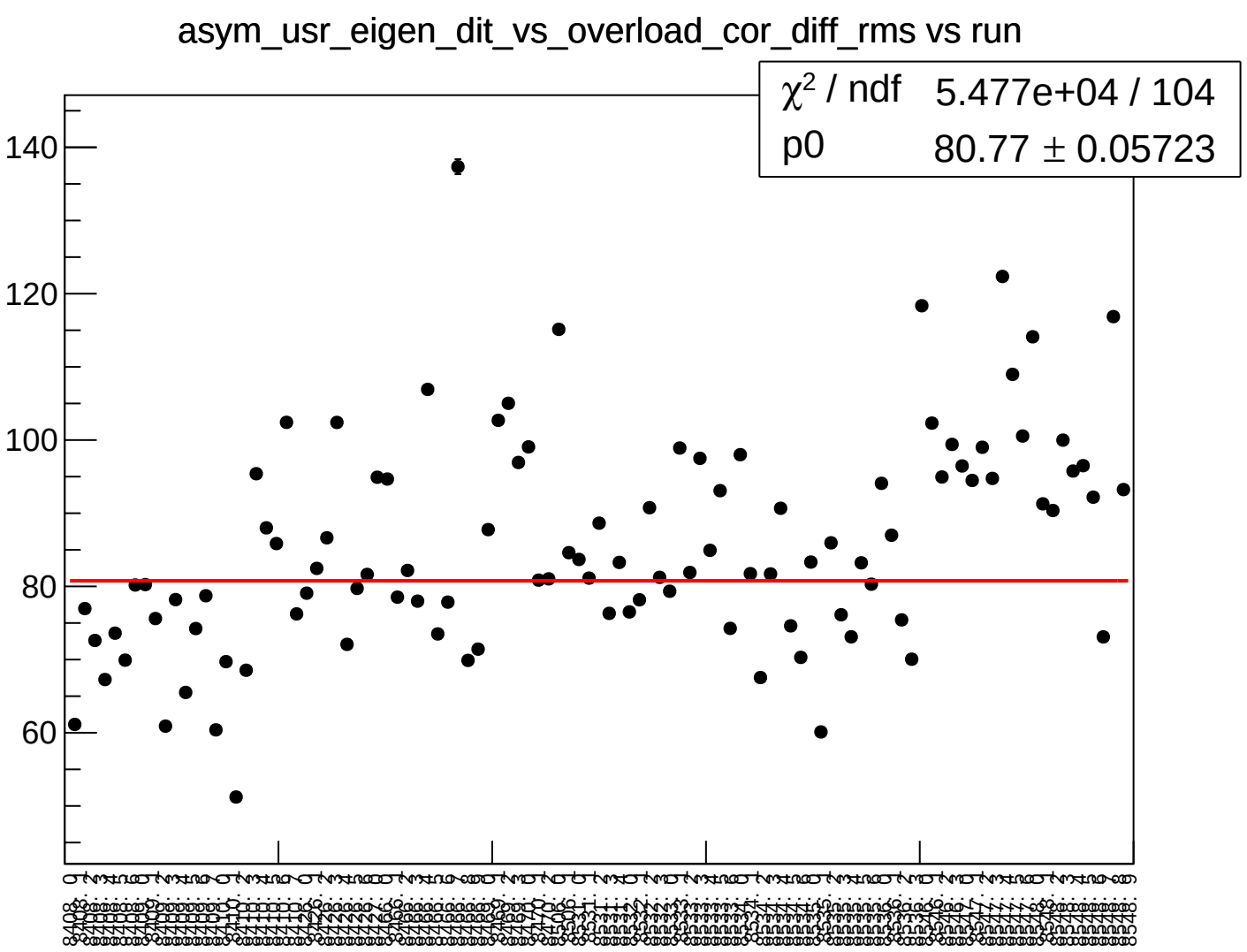

asym_usr_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 86.47 / 104
p0 −0.03166 ± 0.05978
pull
Entries 105
Mean 621.7
Std Dev 0
pull1D
Entries 105
Mean 0.007188
Std Dev 0.9074

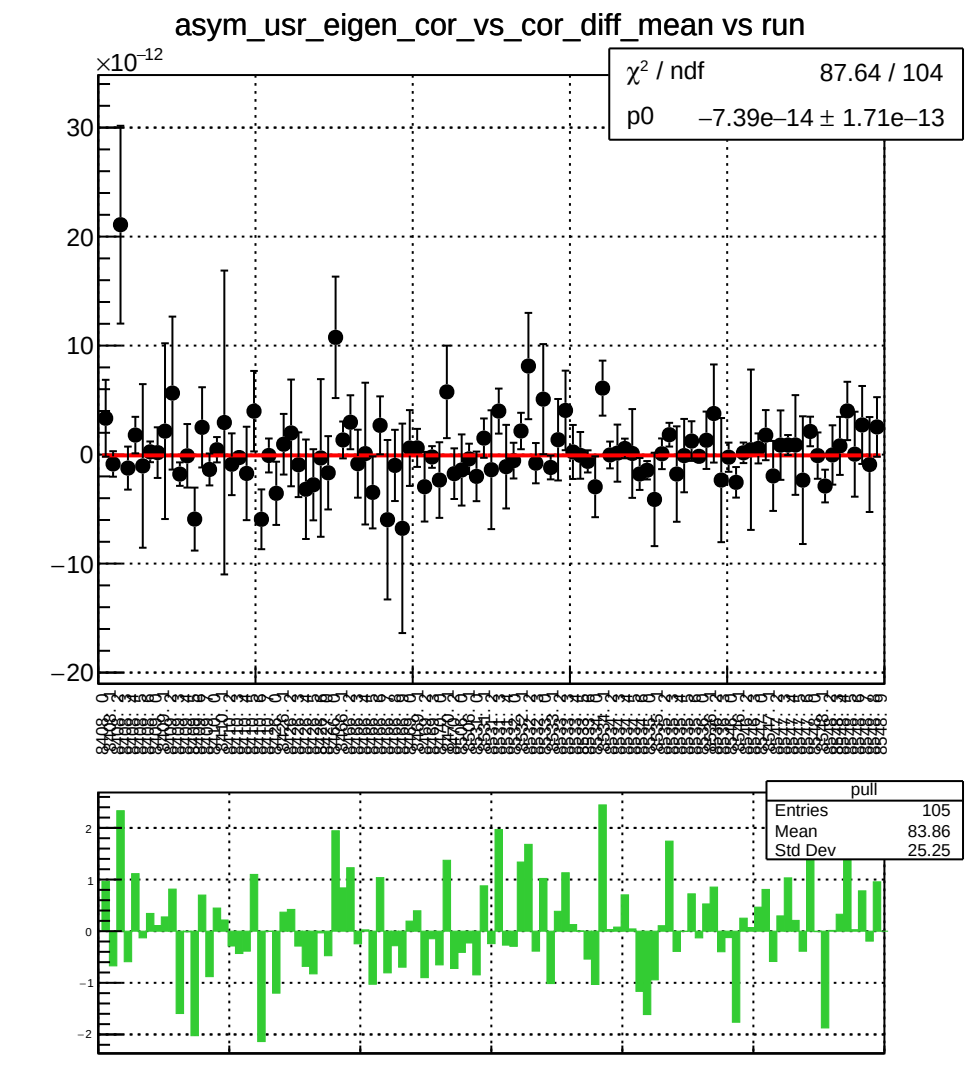

asym_usr_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.379e+04 / 104
p0 59.06 ± 0.04227
140
120
100
80
60
40

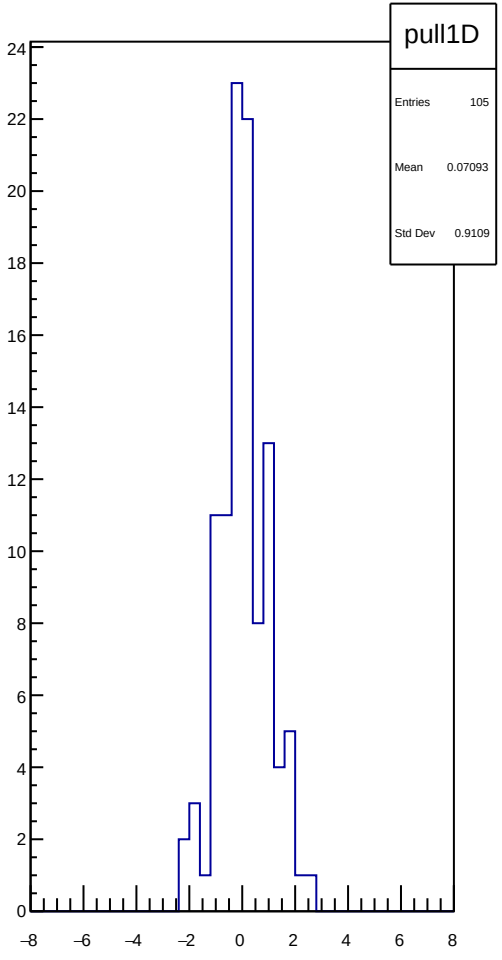

asym_usr_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 86.47 / 104
p0 −0.03166 ± 0.05978
pull
Entries 105
Mean 621.7
Std Dev 0
pull1D
Entries 105
Mean 0.007188
Std Dev 0.9074

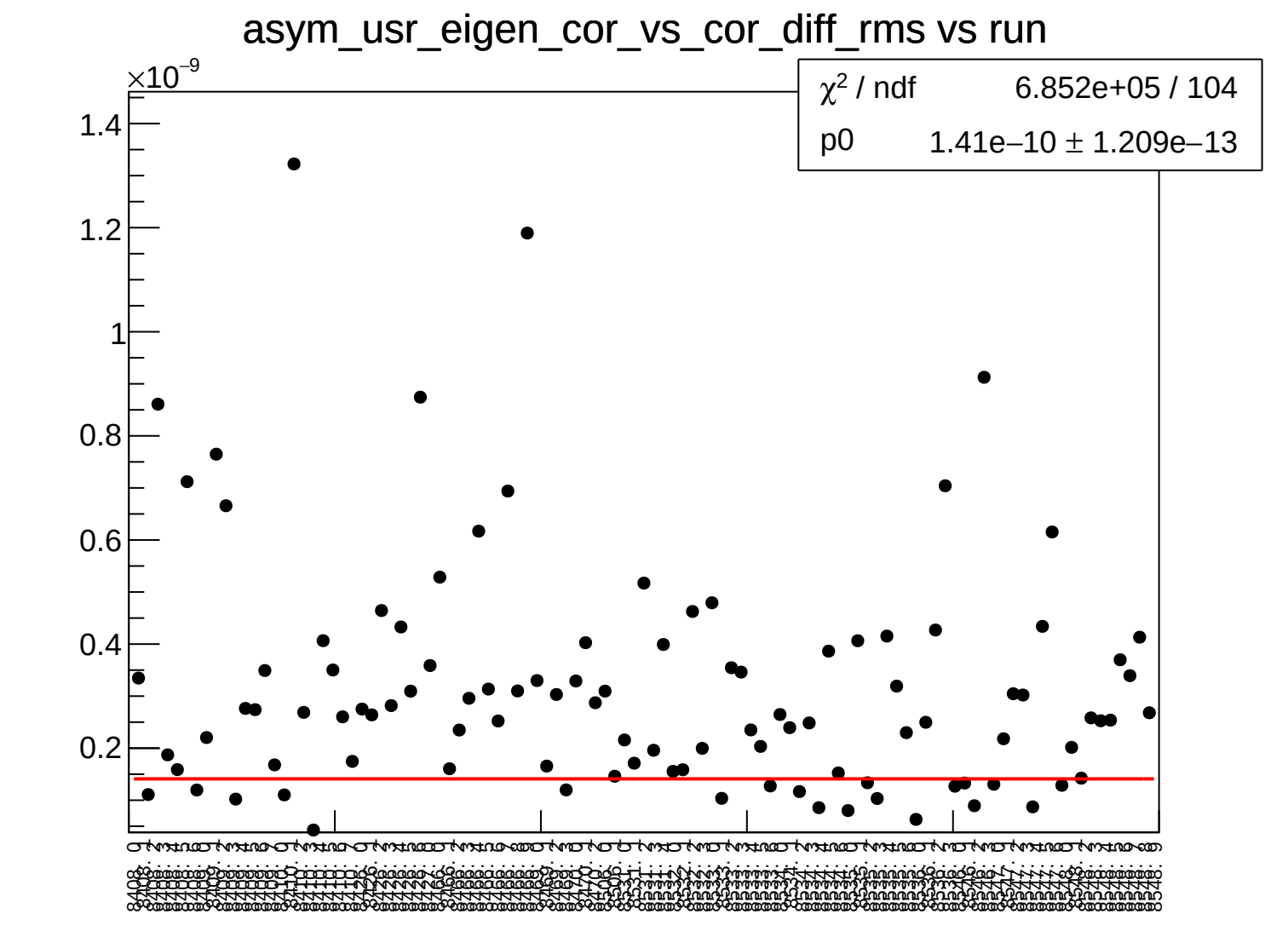

asym_usr_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.379e+04 / 104
p0 59.06 ± 0.04227
140
120
100
80
60
40

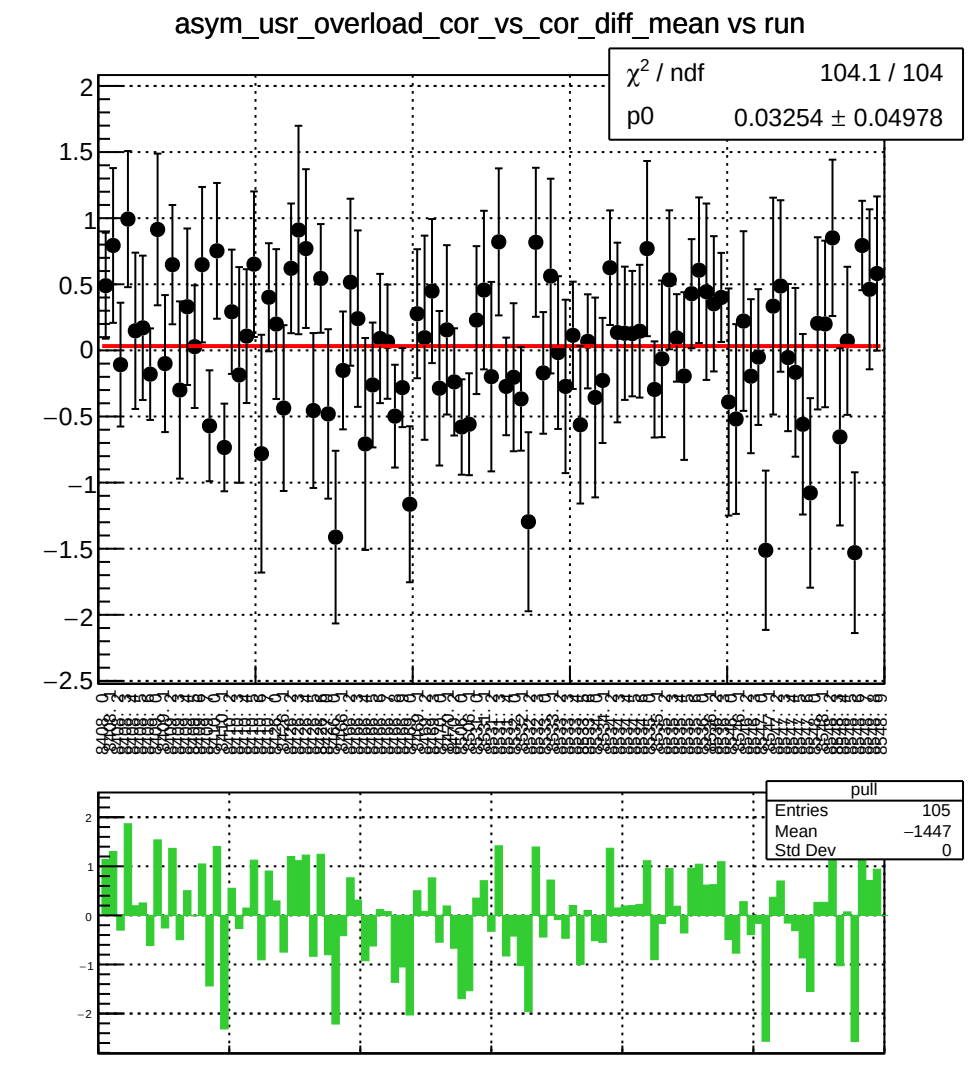

asym_usr_eigen_dit_vs_overload_cor_diff_mean vs run
χ² / ndf 80.65 / 104
p0 −0.1027 ± 0.08094
pull
Entries 105
Mean 221.7
Std Dev 0
pull1D
Entries 105
Mean 0.03017
Std Dev 0.8759

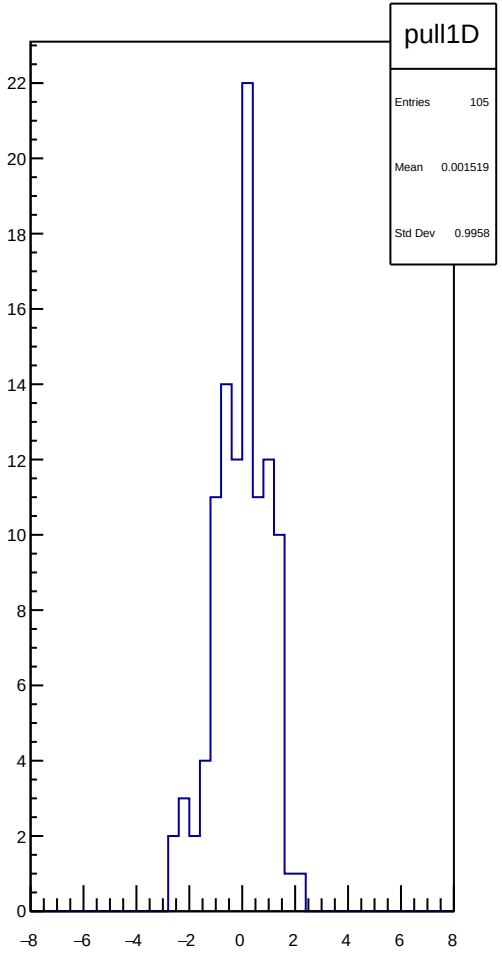

asym_usr_eigen_dit_vs_overload_cor_diff_rms vs run
χ² / ndf 5.477e+04 / 104
p0 80.77 ± 0.05723
140
120
100
80
60

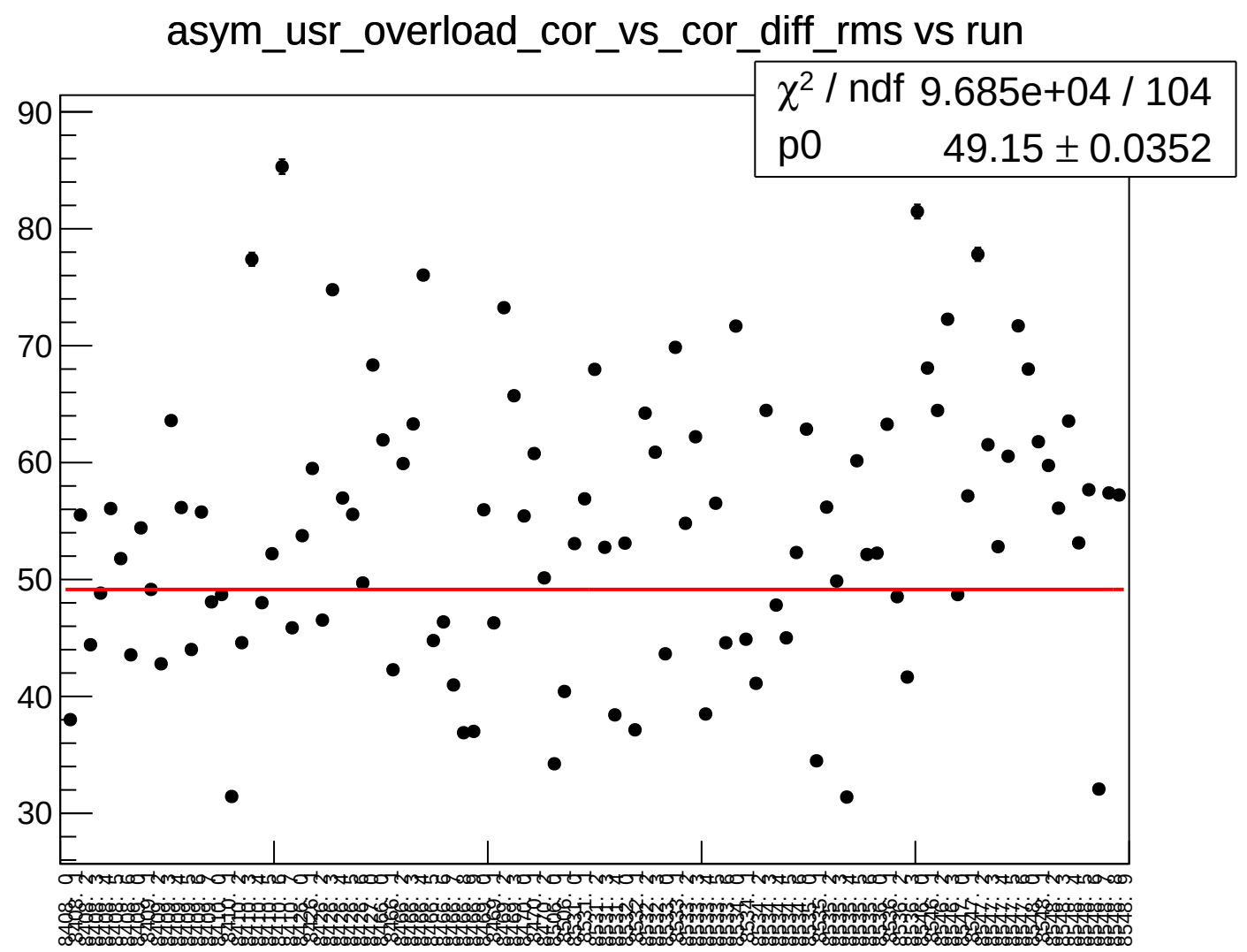

asym_usr_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 87.64 / 104
p0 −7.39e−14 ± 1.71e−13
30
20
10
0
−10
−20
pull
Entries 105
Mean 83.86
Std Dev 25.25
2
1
0
−1
−2

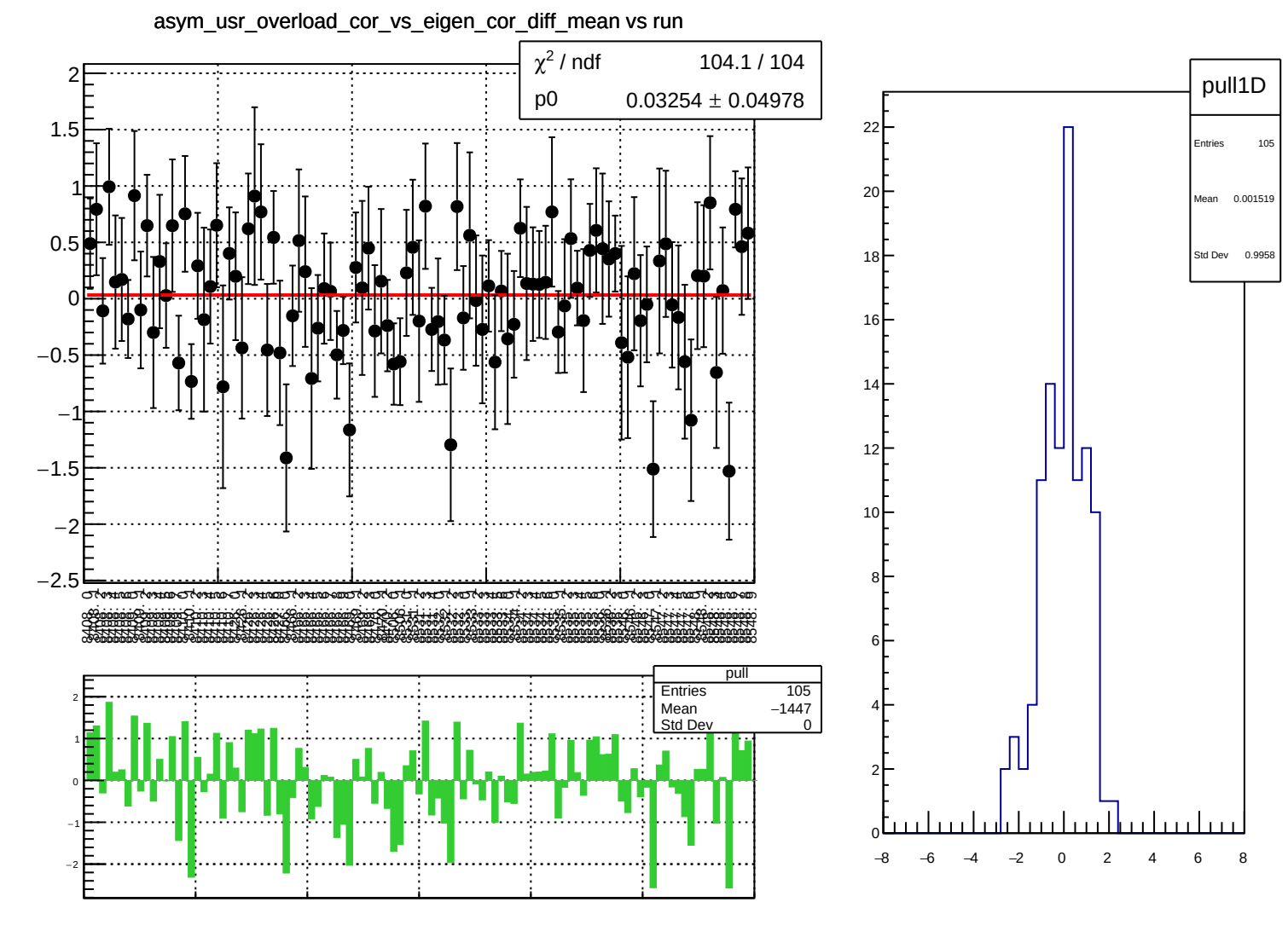

pull1D
Entries 105
Mean 0.07093
Std Dev 0.9109
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

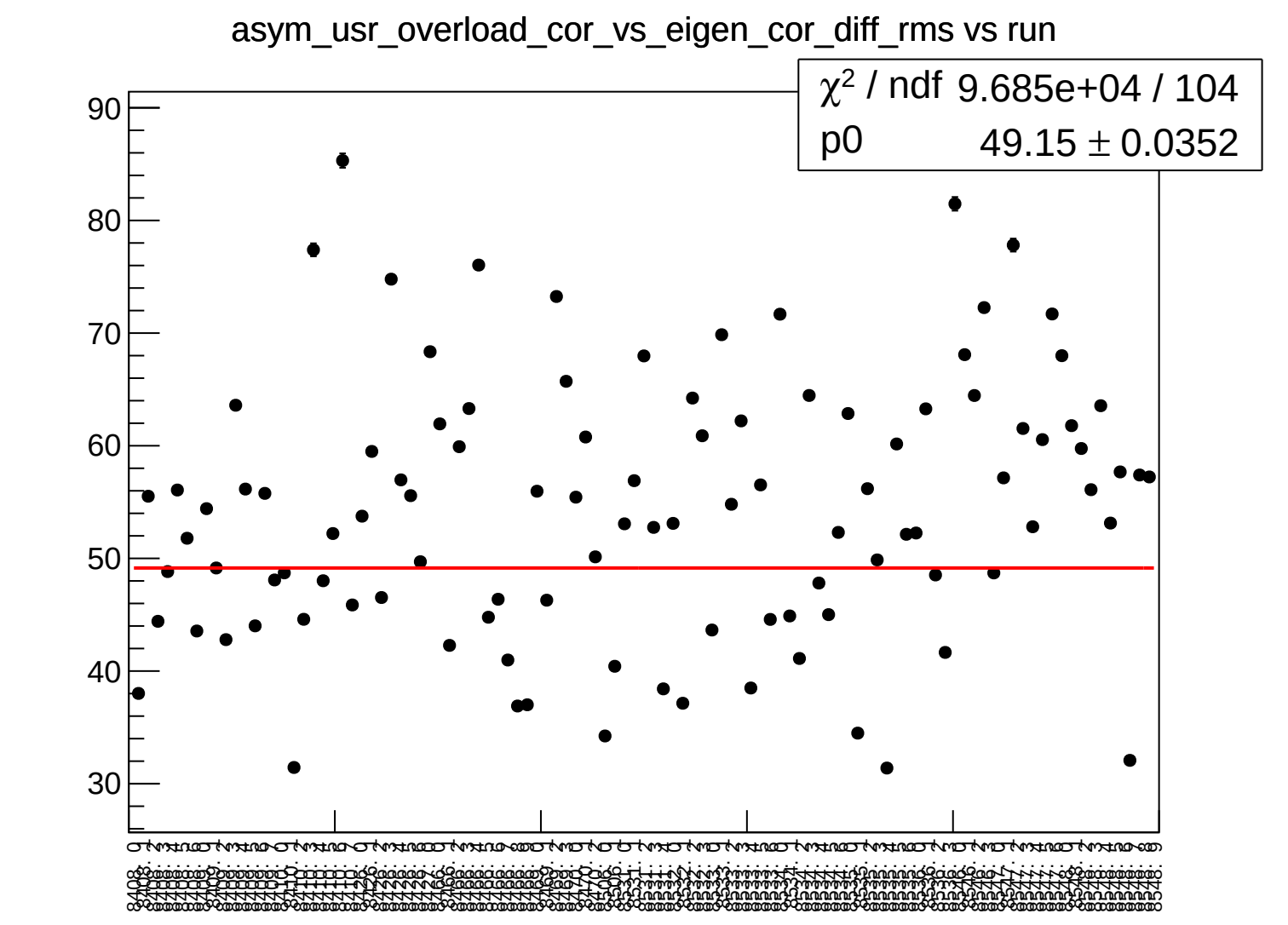

asym_usr_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.852e+05 / 104
p0 1.41e−10 ± 1.209e−13
1.4
1.2
1
0.8
0.6
0.4
0.2

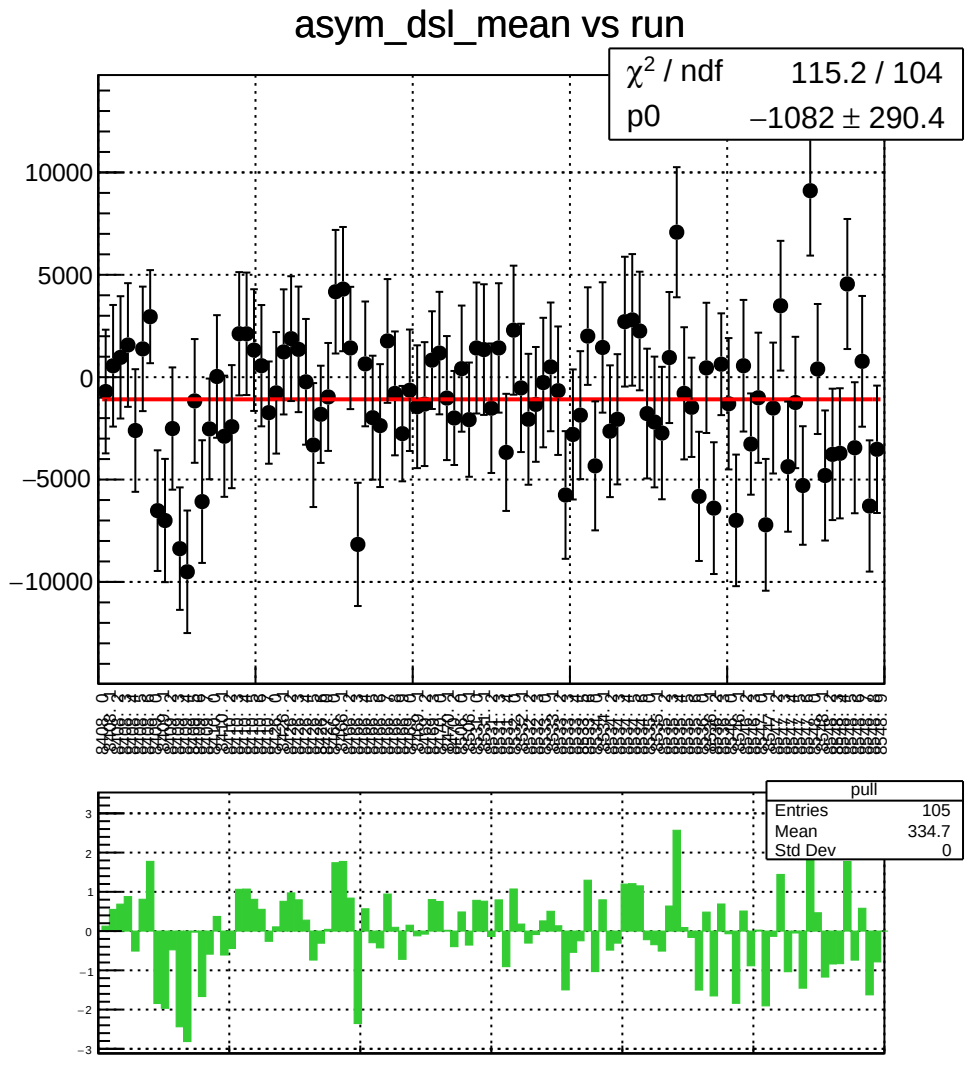

asym_usr_overload_cor_vs_cor_diff_mean vs run
χ² / ndf 104.1 / 104
p0 0.03254 ± 0.04978
pull
Entries 105
Mean −1447
Std Dev 0

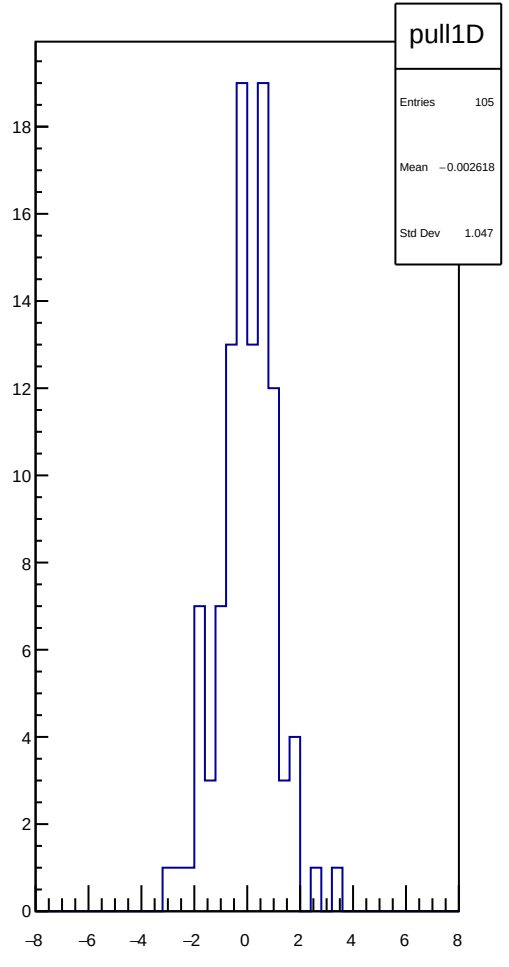

pull1D
Entries 105
Mean 0.001519
Std Dev 0.9958

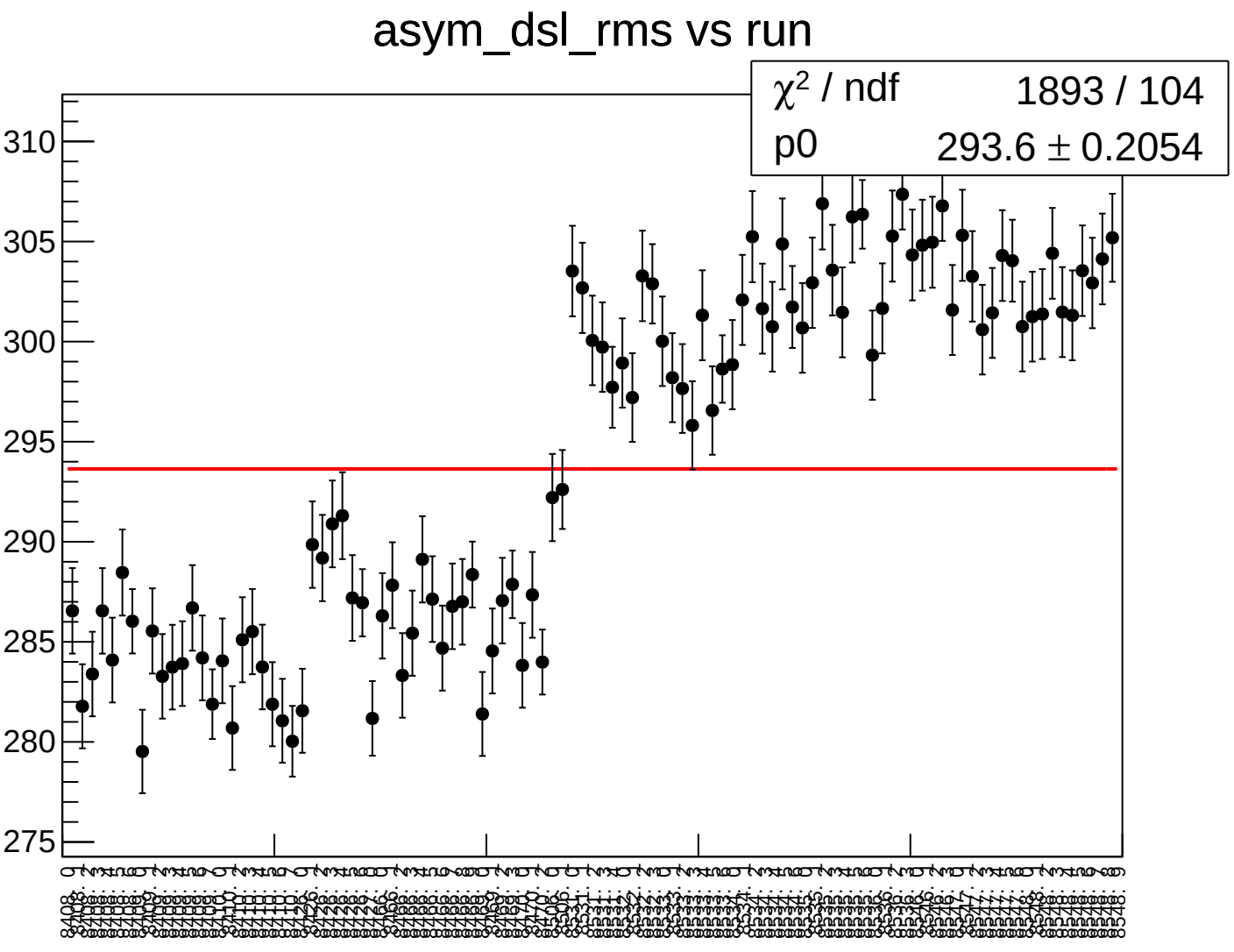

asym_usr_overload_cor_vs_cor_diff_rms vs run
χ^2 / ndf 9.685e+04 / 104
p0 49.15 ± 0.0352
90
80
70
60
50
40
30

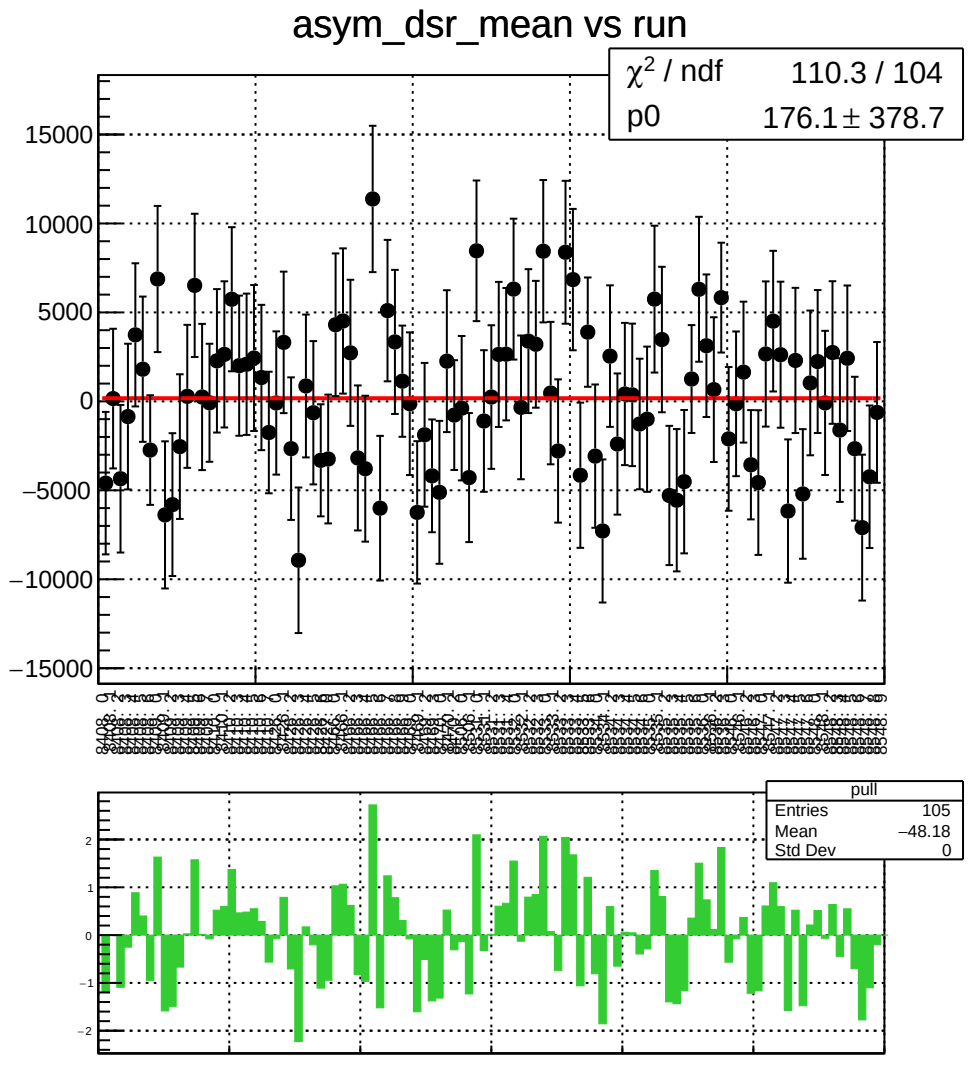

asym_usr_overload_cor_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.1 / 104
p0 0.03254 ± 0.04978
pull
Entries 105
Mean −1447
Std Dev 0
pull1D
Entries 105
Mean 0.001519
Std Dev 0.9958

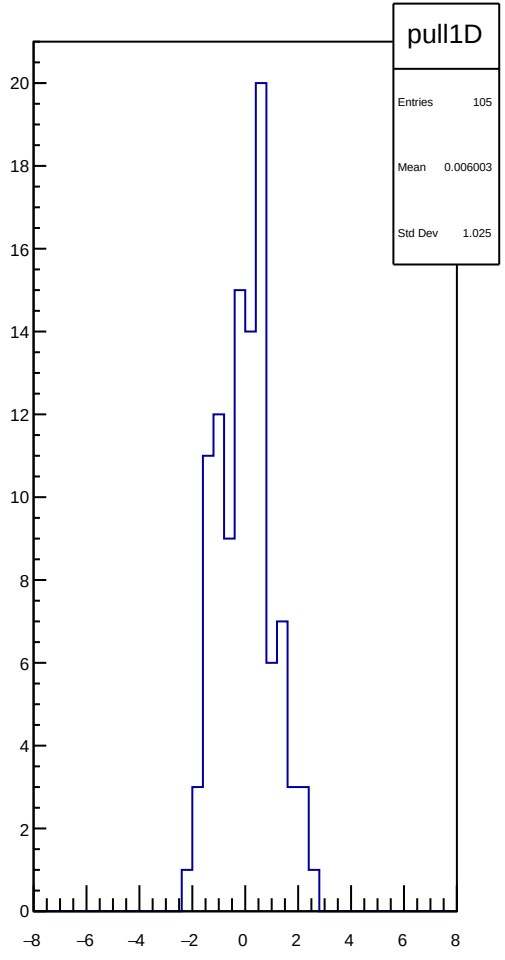

asym_usr_overload_cor_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.685e+04 / 104
p0 49.15 ± 0.0352
90
80
70
60
50
40
30

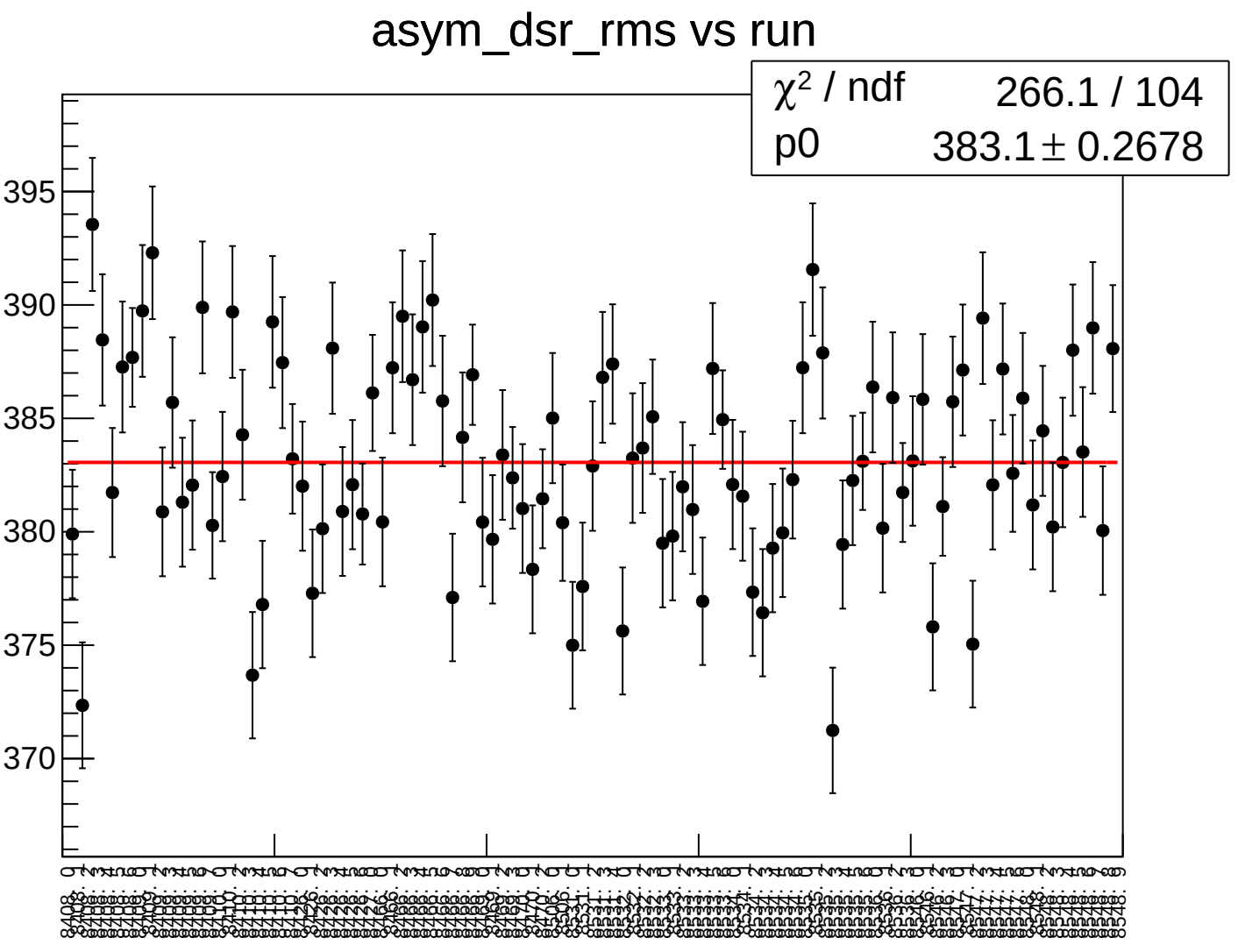

asym_dsl_mean vs run
χ² / ndf 115.2 / 104
p0 −1082 ± 290.4
10000
5000
0
−5000
−10000
pull
Entries 105
Mean 334.7
Std Dev 0
3
2
1
0
−1
−2
−3

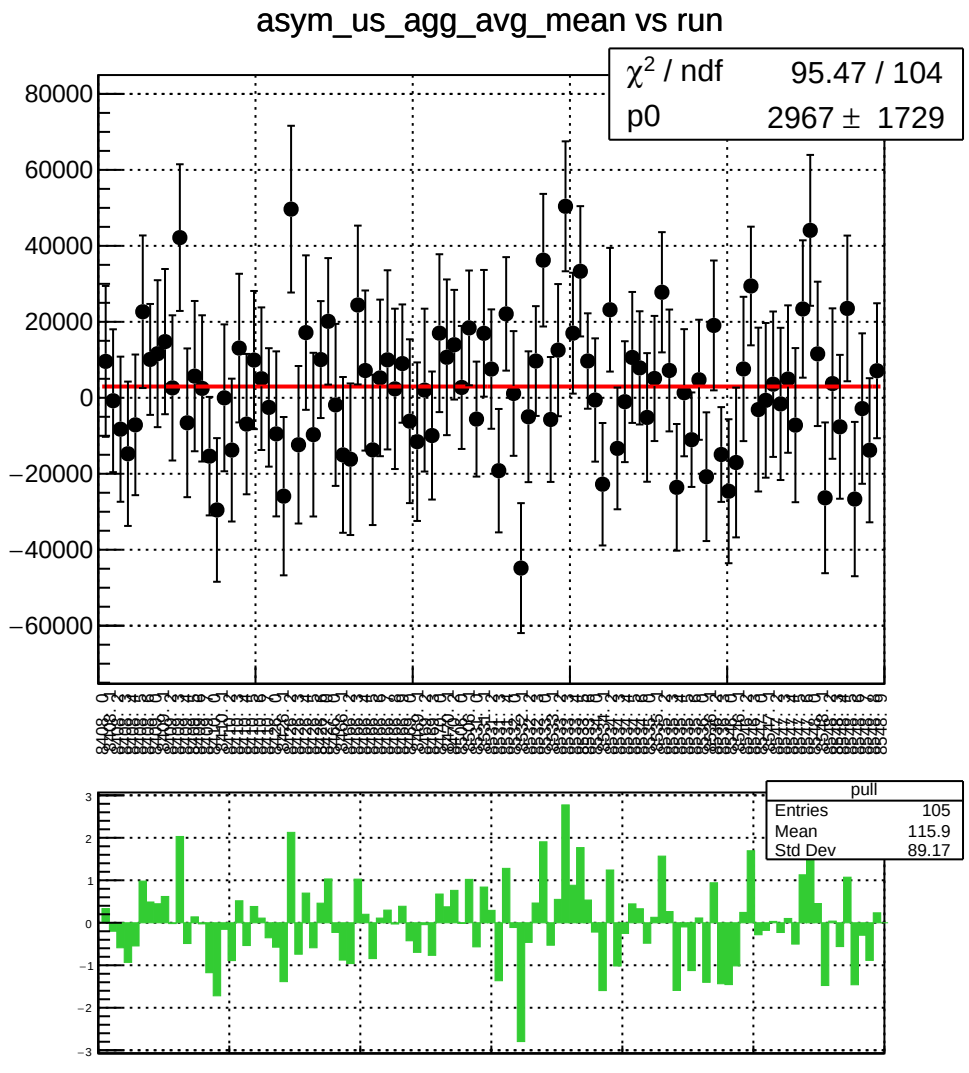

pull1D
Entries 105
Mean −0.002618
Std Dev 1.047
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

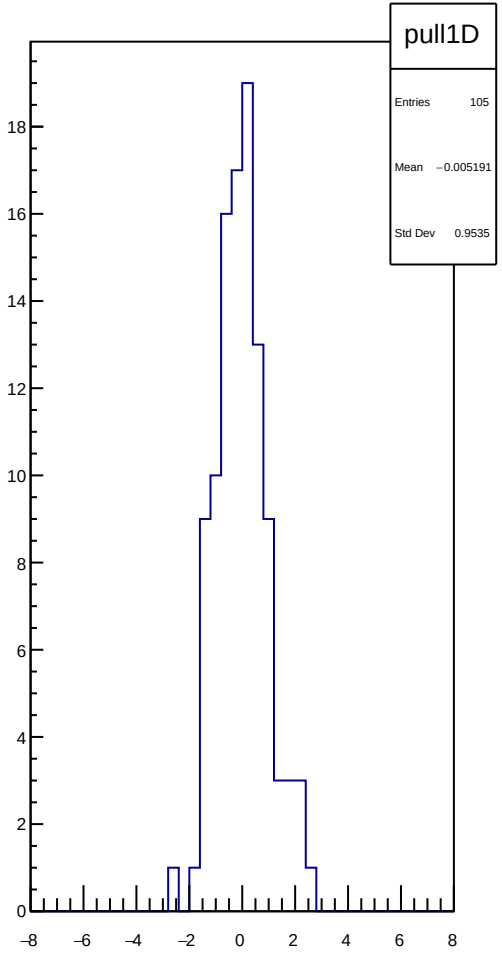

asym_dsl_rms vs run
χ^2 / ndf 1893 / 104
p0 293.6 ± 0.2054
310
305
300
295
290
285
280
275

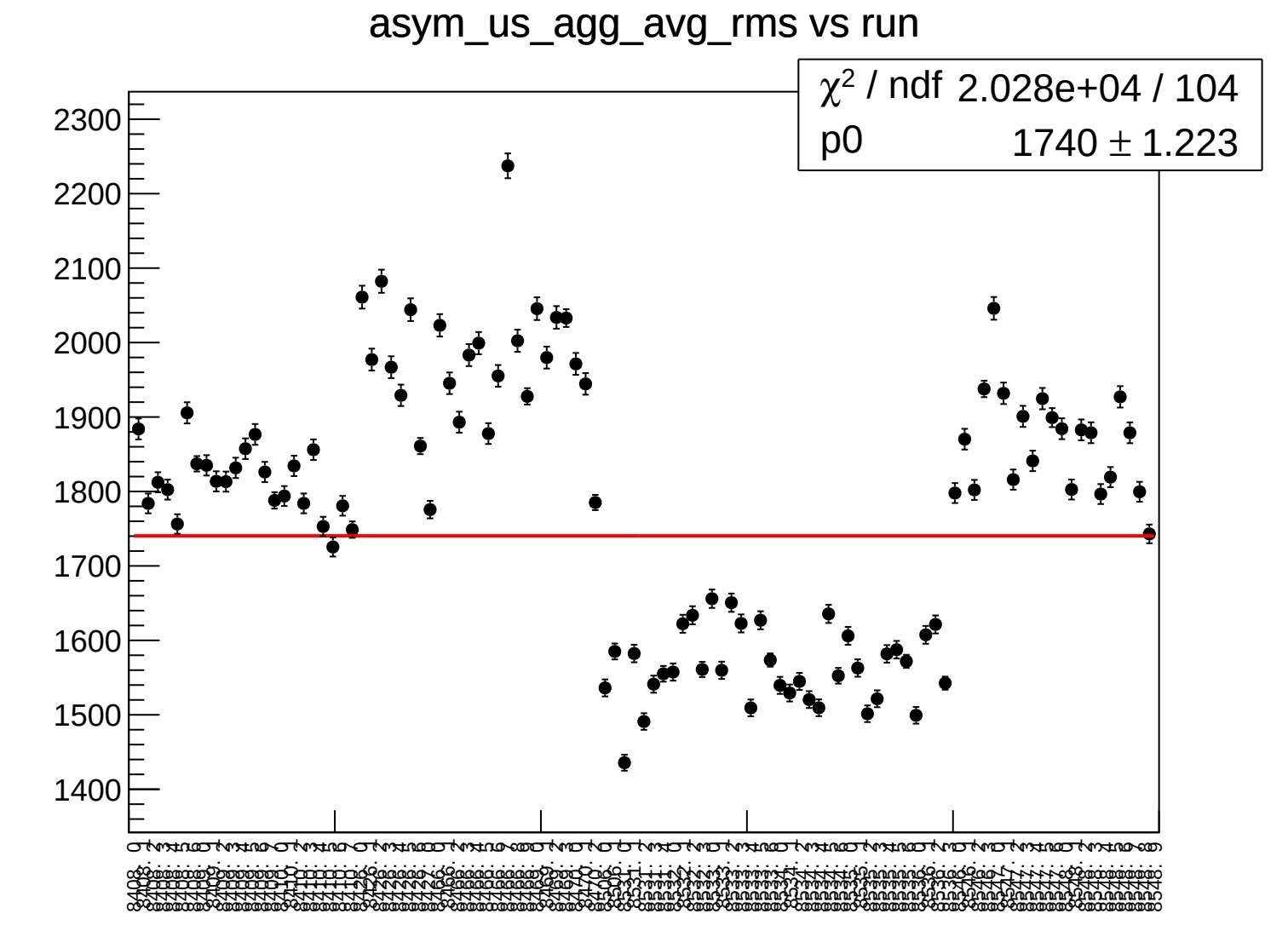

asym_dsr_mean vs run
χ² / ndf 110.3 / 104
p0 176.1 ± 378.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 105
Mean −48.18
Std Dev 0
2
1
0
−1
−2

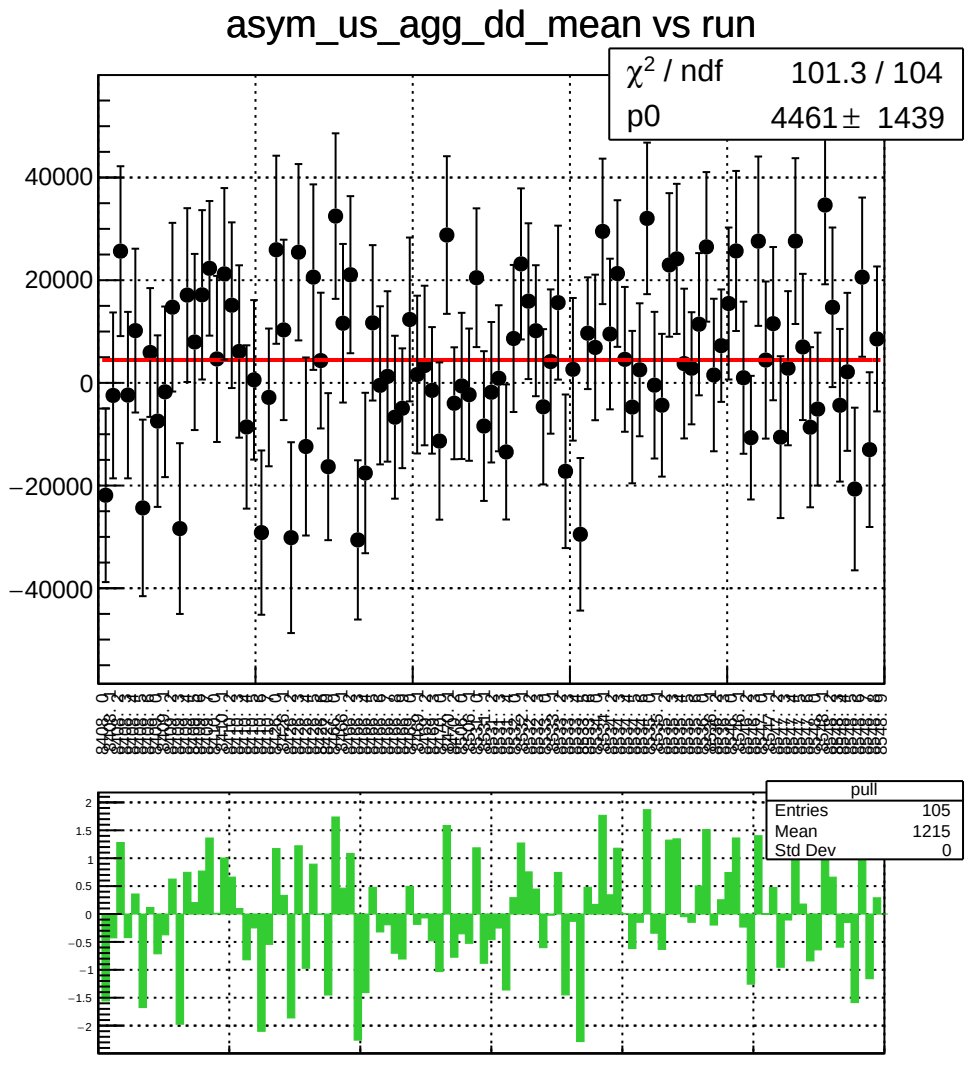

pull1D
Entries 105
Mean 0.006003
Std Dev 1.025
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

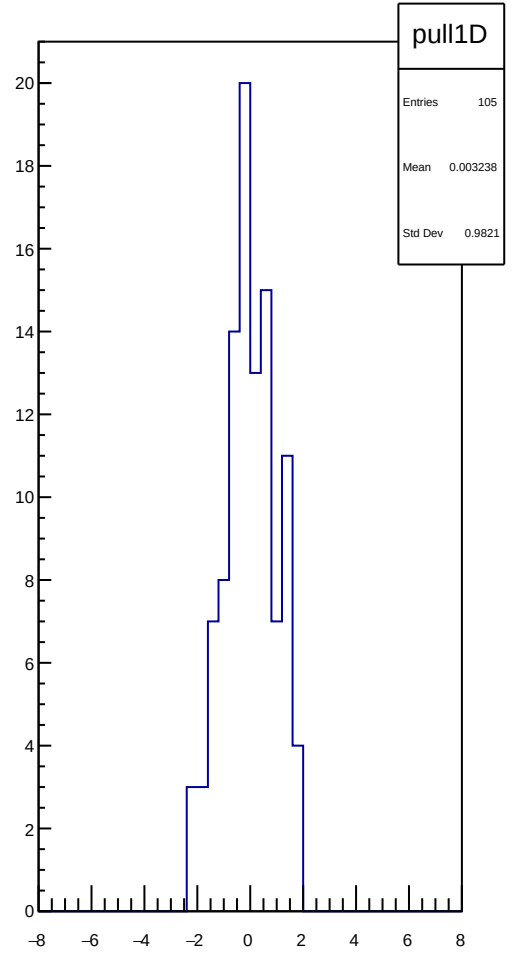

asym_dsr_rms vs run
χ² / ndf 266.1 / 104
p0 383.1 ± 0.2678
395
390
385
380
375
370

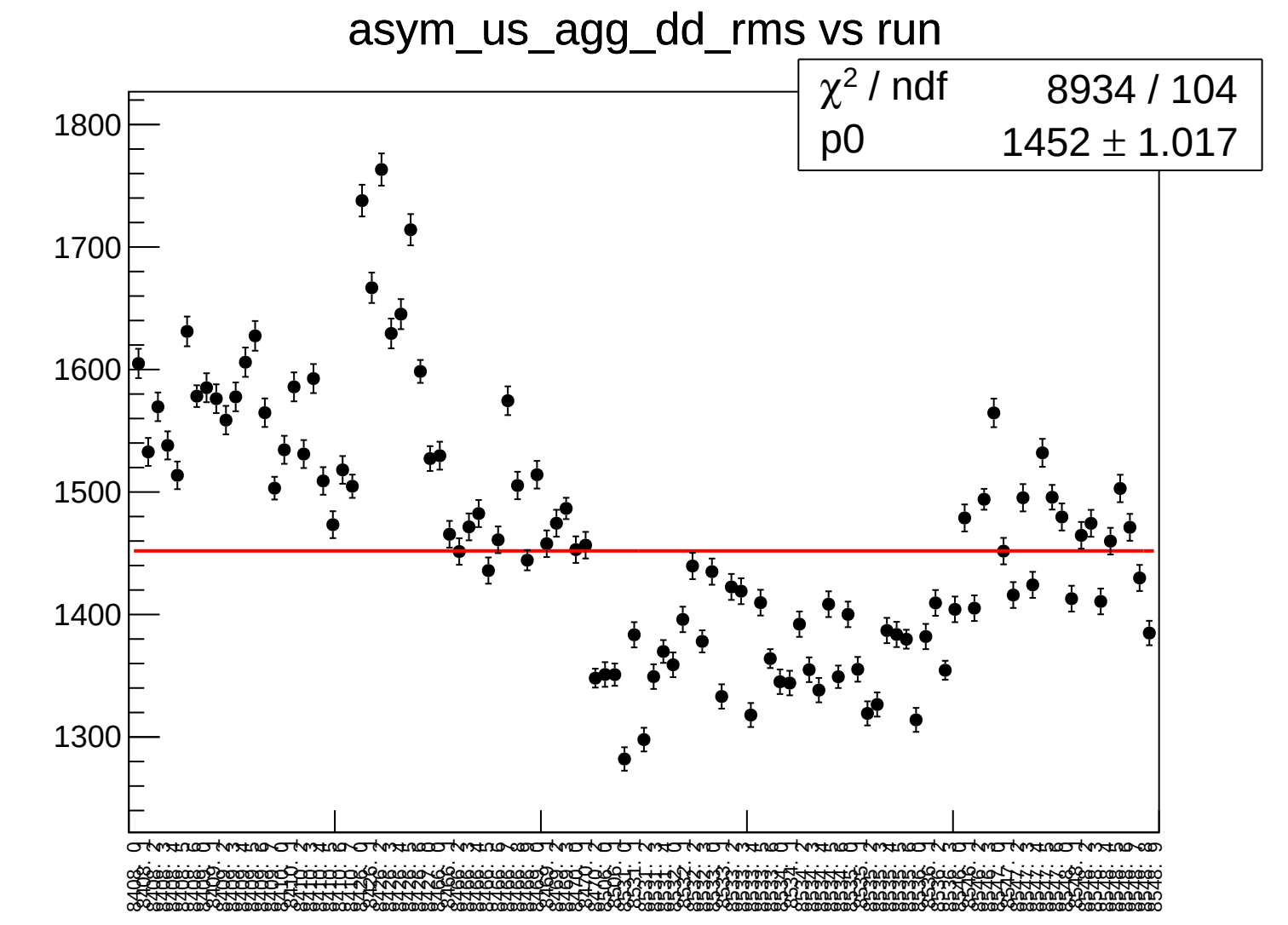

asym_us_agg_avg_mean vs run
χ² / ndf 95.47 / 104
p0 2967 ± 1729
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean 115.9
Std Dev 89.17
3
2
1
0
−1
−2
−3

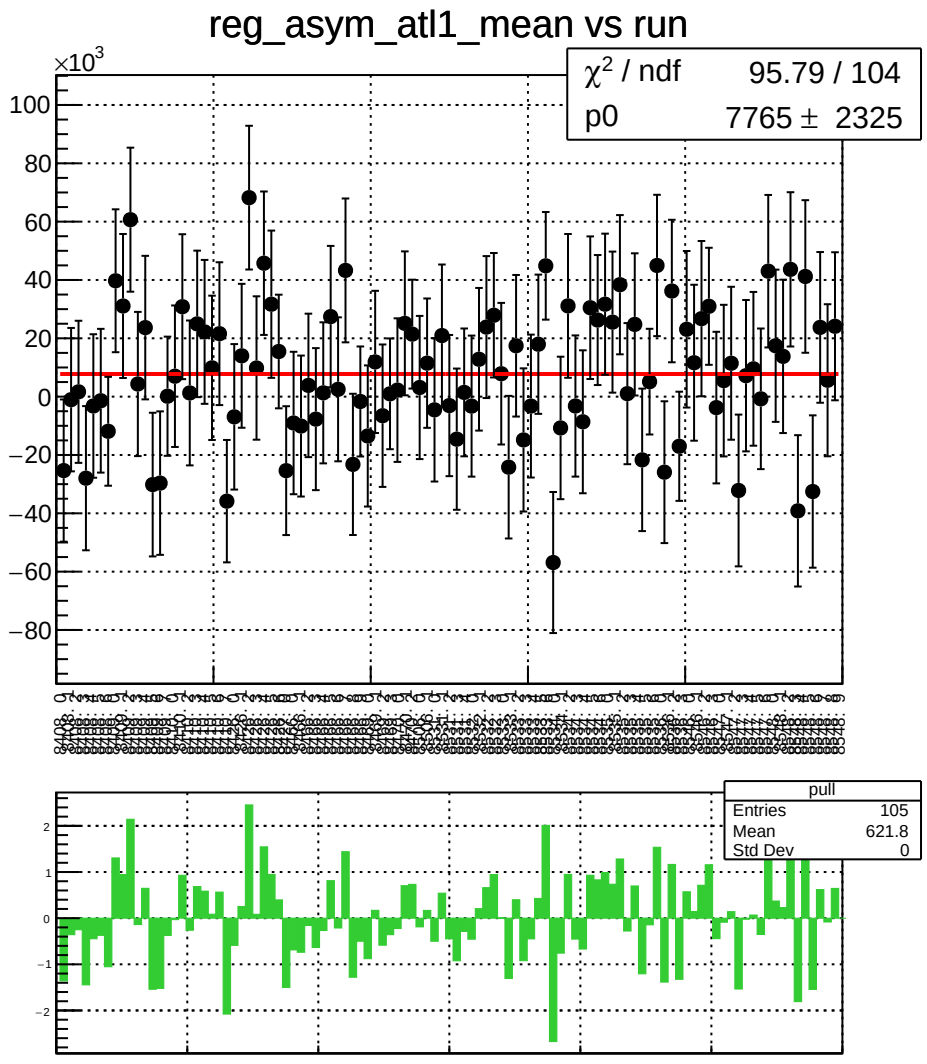

pull1D
Entries 105
Mean −0.005191
Std Dev 0.9535
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

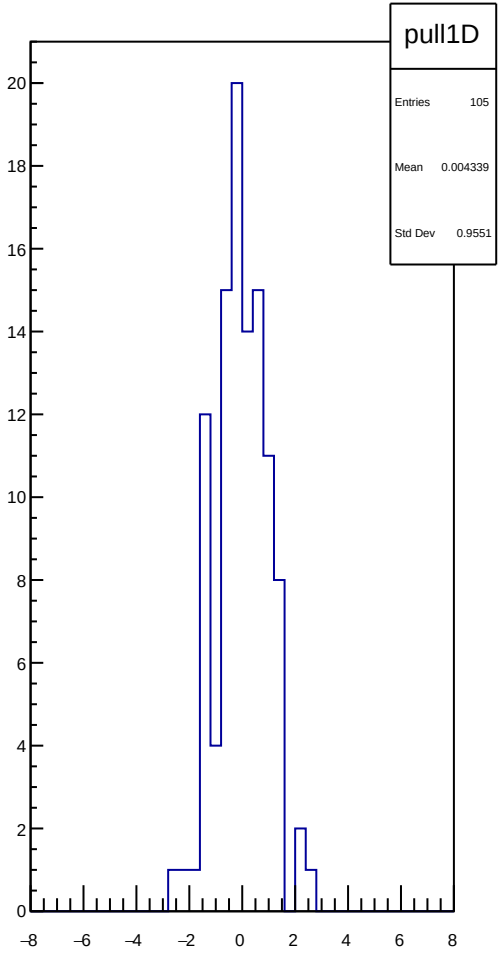

asym_us_agg_avg_rms vs run
χ² / ndf 2.028e+04 / 104
p0 1740 ± 1.223
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400

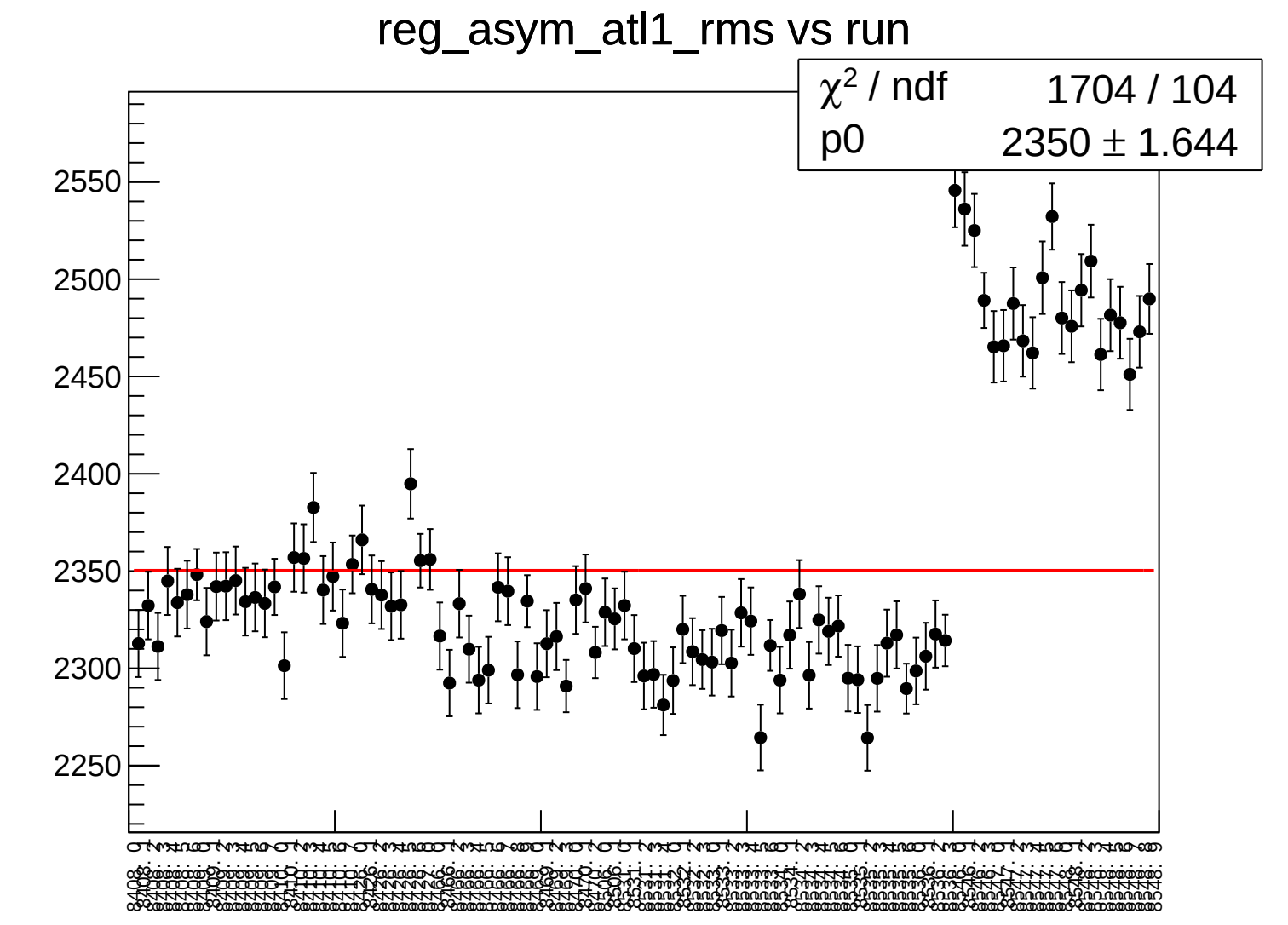

asym_us_agg_dd_mean vs run
χ² / ndf 101.3 / 104
p0 4461 ± 1439
40000
20000
0
−20000
−40000
pull
Entries 105
Mean 1215
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

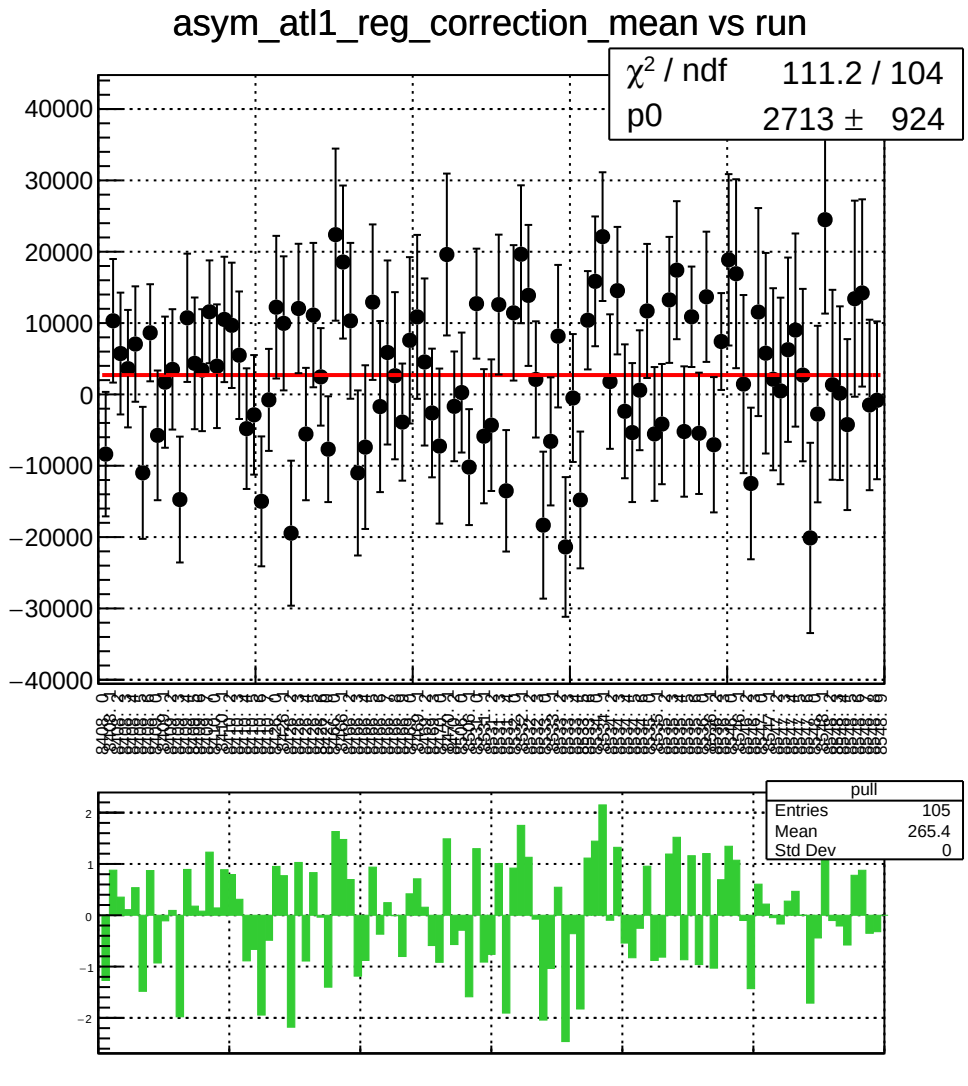

pull1D
Entries 105
Mean 0.003238
Std Dev 0.9821
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

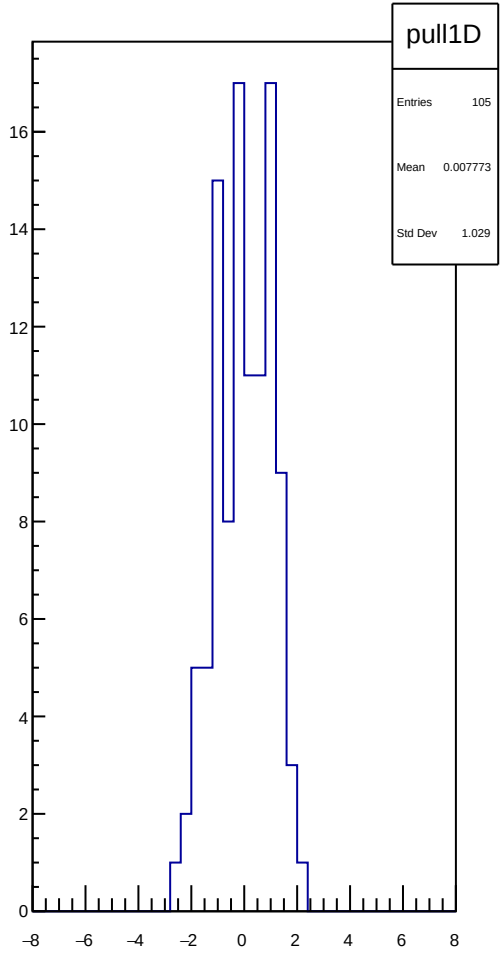

asym_us_agg_dd_rms vs run
χ^2 / ndf 8934 / 104
p0 1452 ± 1.017
1800
1700
1600
1500
1400
1300

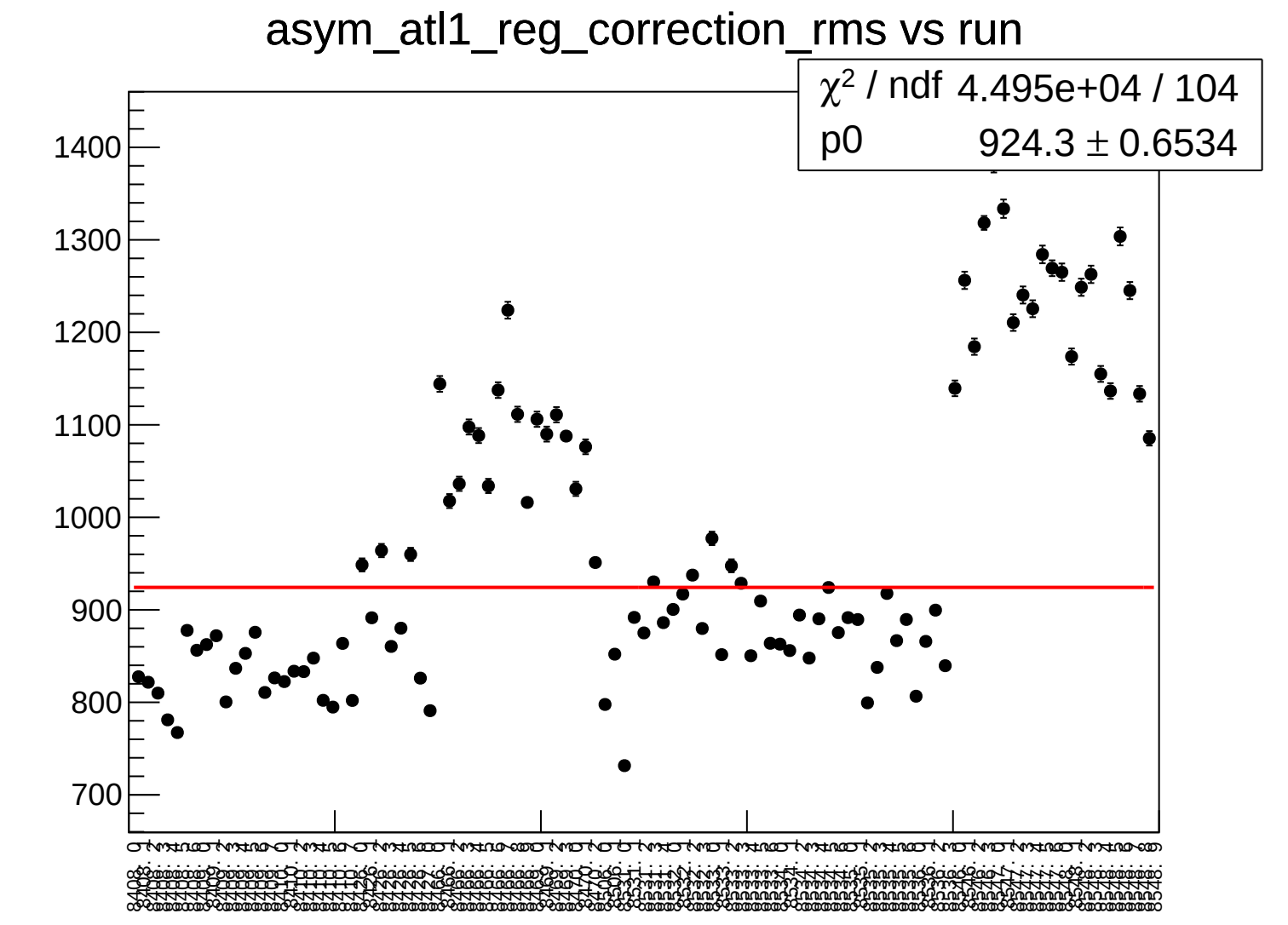

reg_asym_atl1_mean vs run
×10^3
χ^2 / ndf 95.79 / 104
p0 7765 ± 2325
pull
Entries 105
Mean 621.8
Std Dev 0

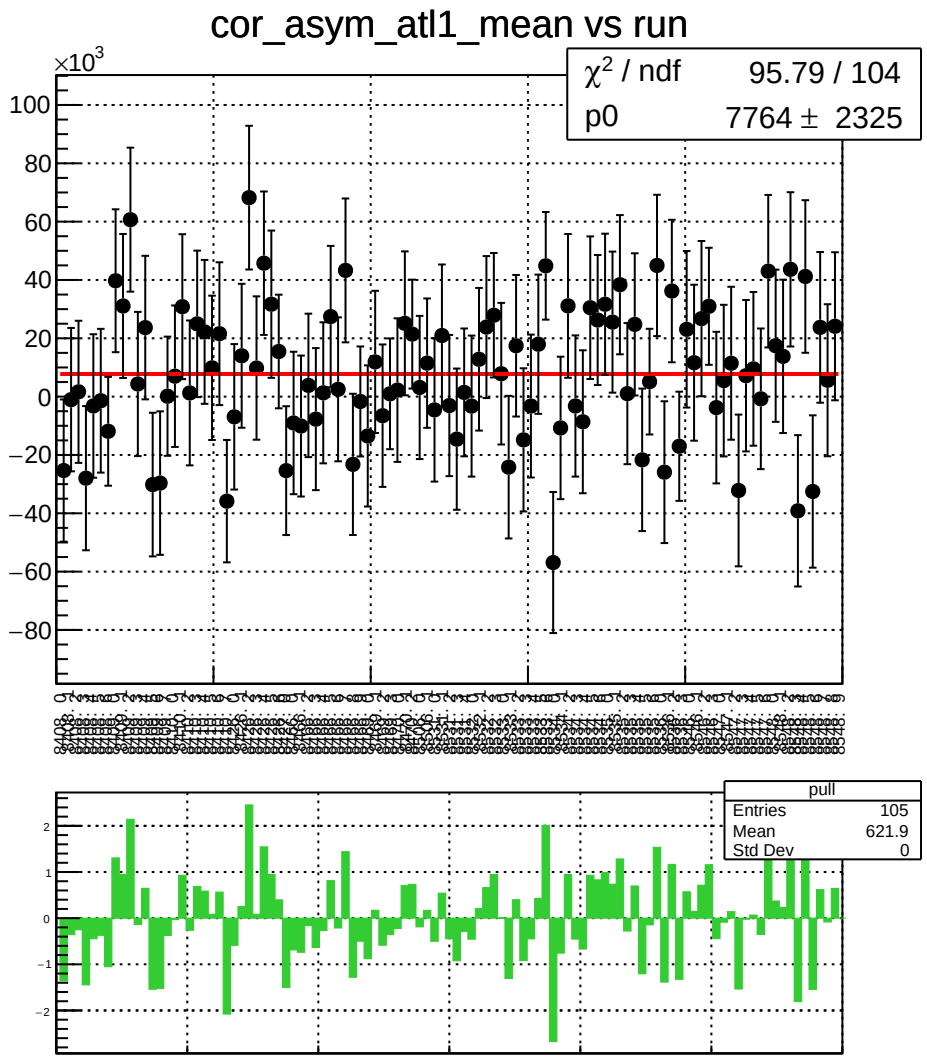

pull1D
Entries 105
Mean 0.004339
Std Dev 0.9551

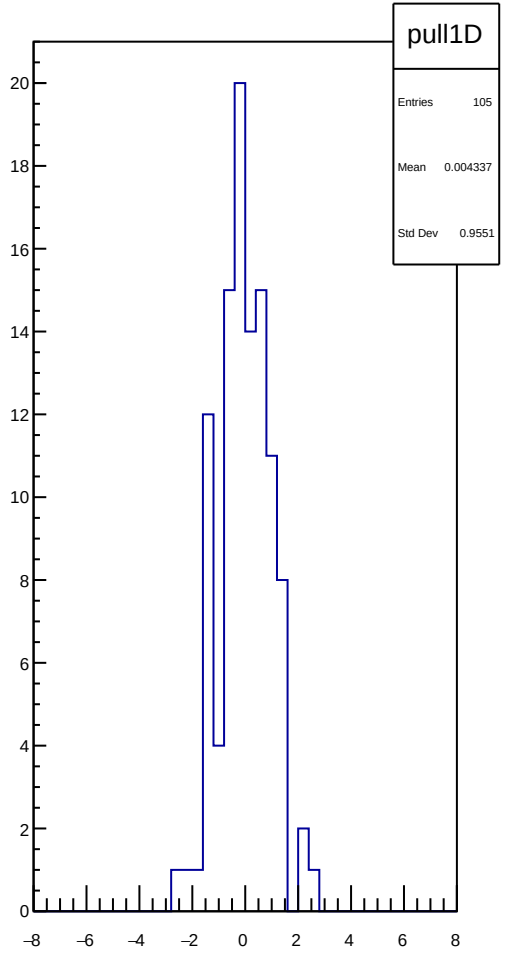

reg_asym_atl1_rms vs run
χ^2 / ndf 1704 / 104
p0 2350 ± 1.644
2550
2500
2450
2400
2350
2300
2250

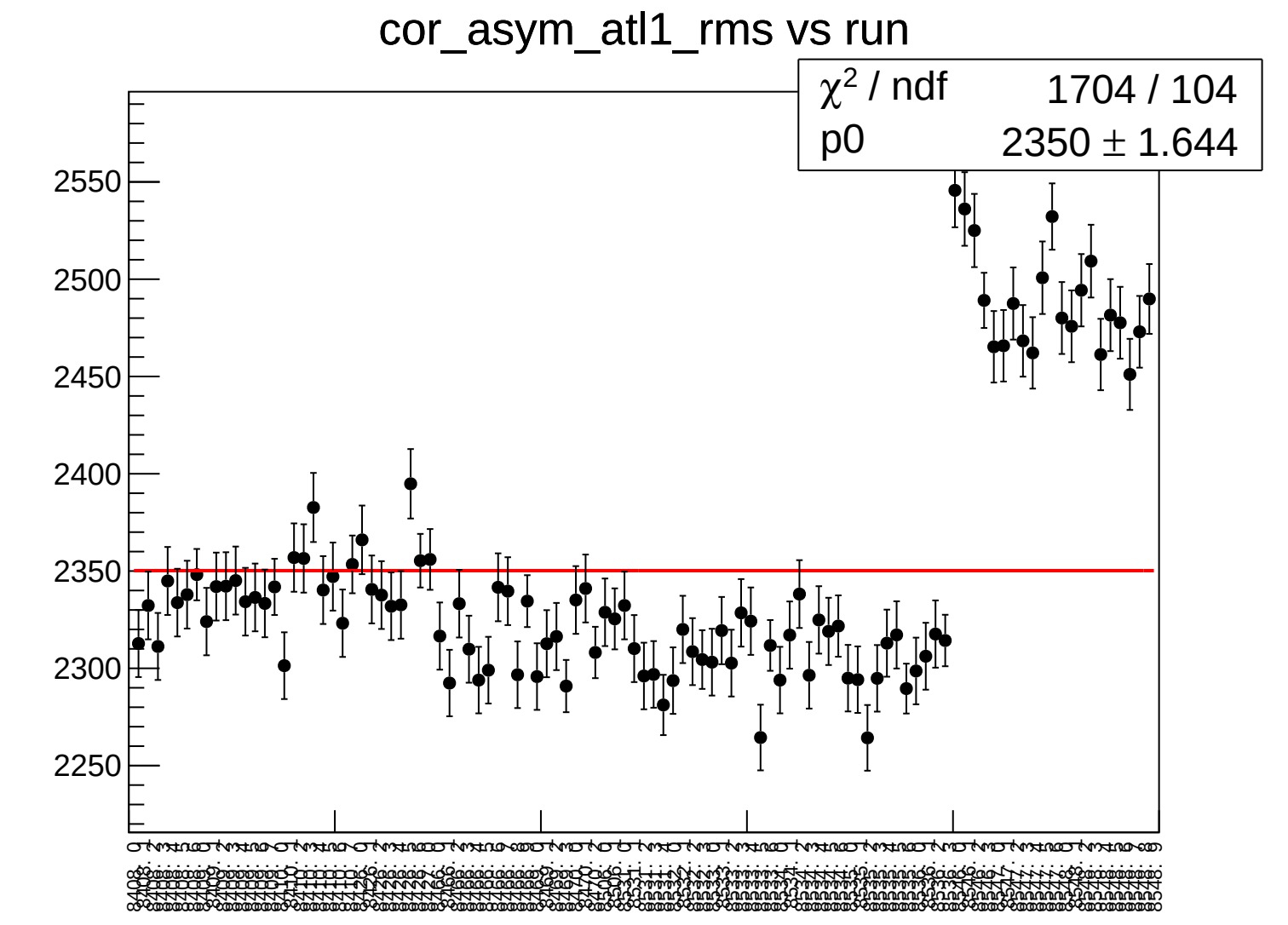

asym_atl1_reg_correction_mean vs run
χ² / ndf 111.2 / 104
p0 2713 ± 924
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 105
Mean 265.4
Std Dev 0
2
1
0
−1
−2

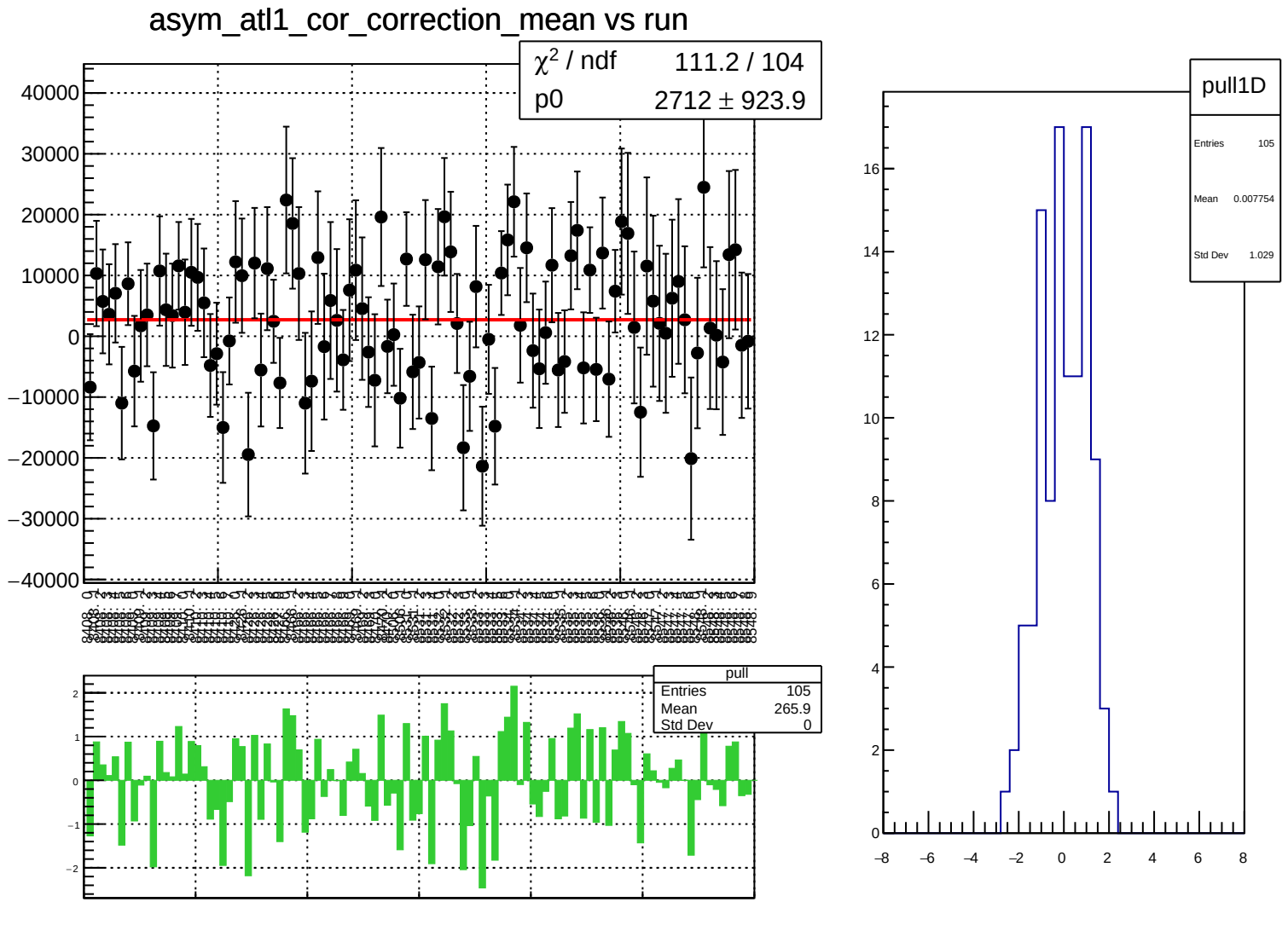

pull1D
Entries 105
Mean 0.007773
Std Dev 1.029
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

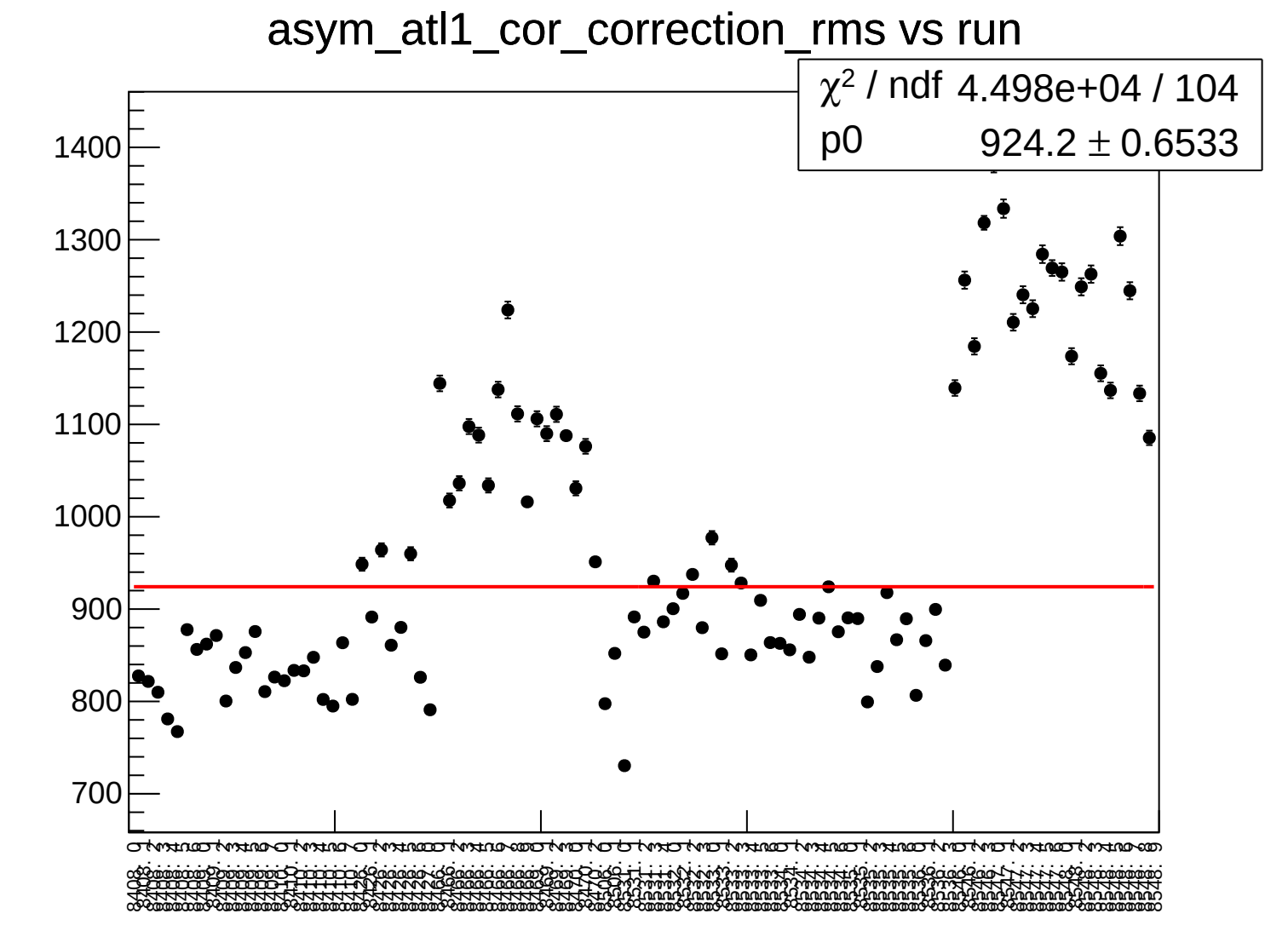

asym_atl1_reg_correction_rms vs run
χ² / ndf 4.495e+04 / 104
p0 924.3 ± 0.6534
1400
1300
1200
1100
1000
900
800
700

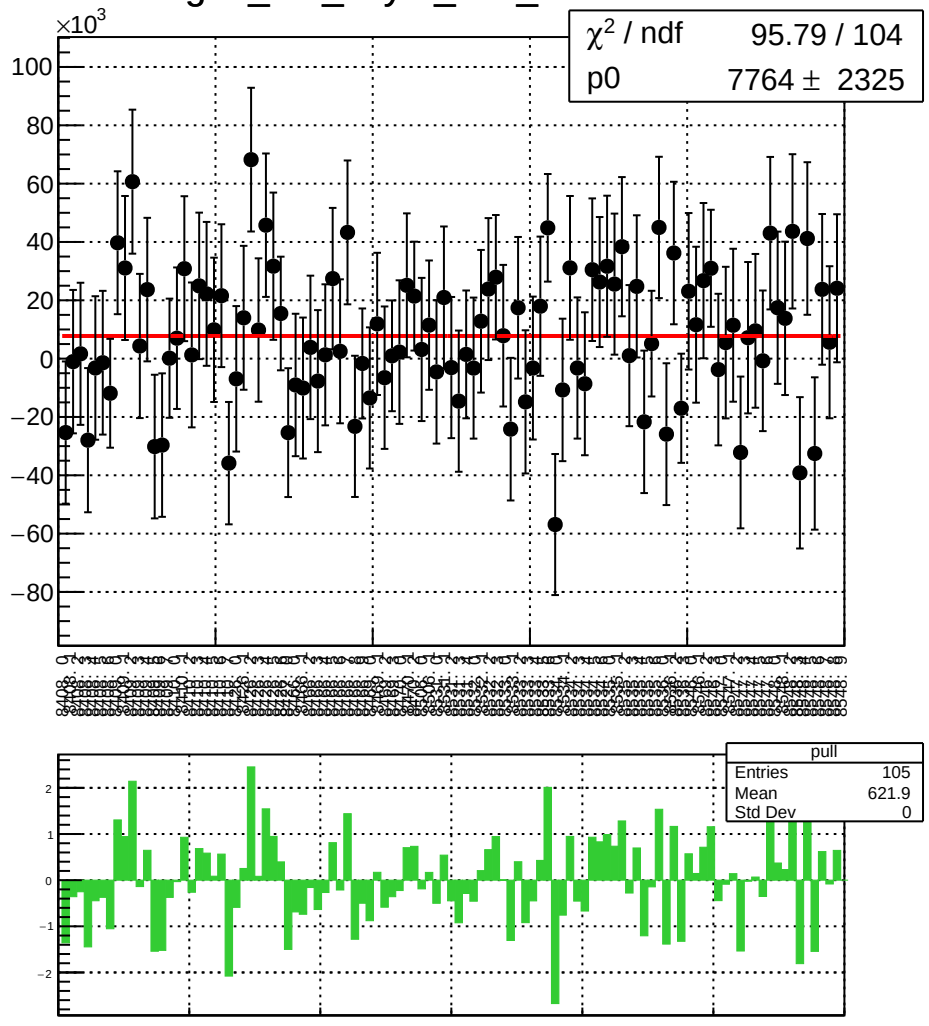

cor_asym_atl1_mean vs run
×10^3
χ^2 / ndf 95.79 / 104
p0 7764 ± 2325
pull
Entries 105
Mean 621.9
Std Dev 0

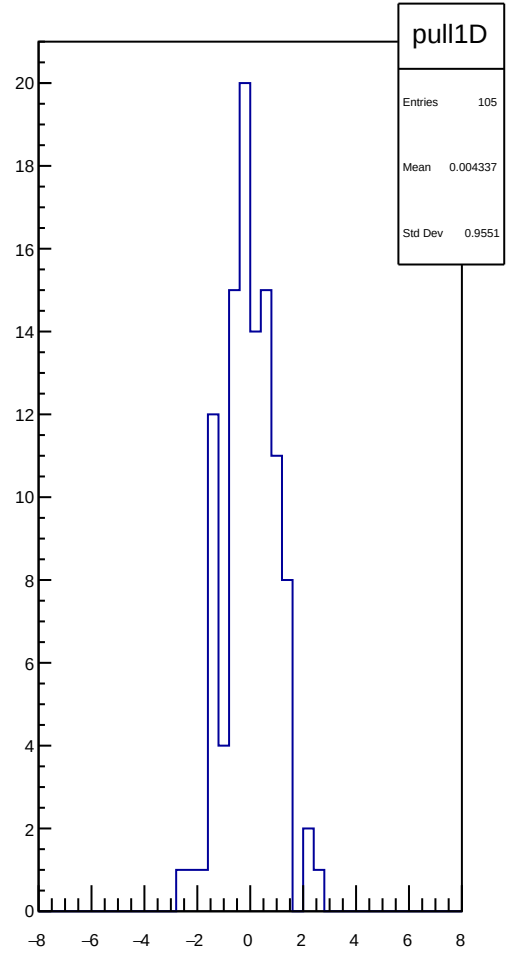

pull1D
Entries 105
Mean 0.004337
Std Dev 0.9551

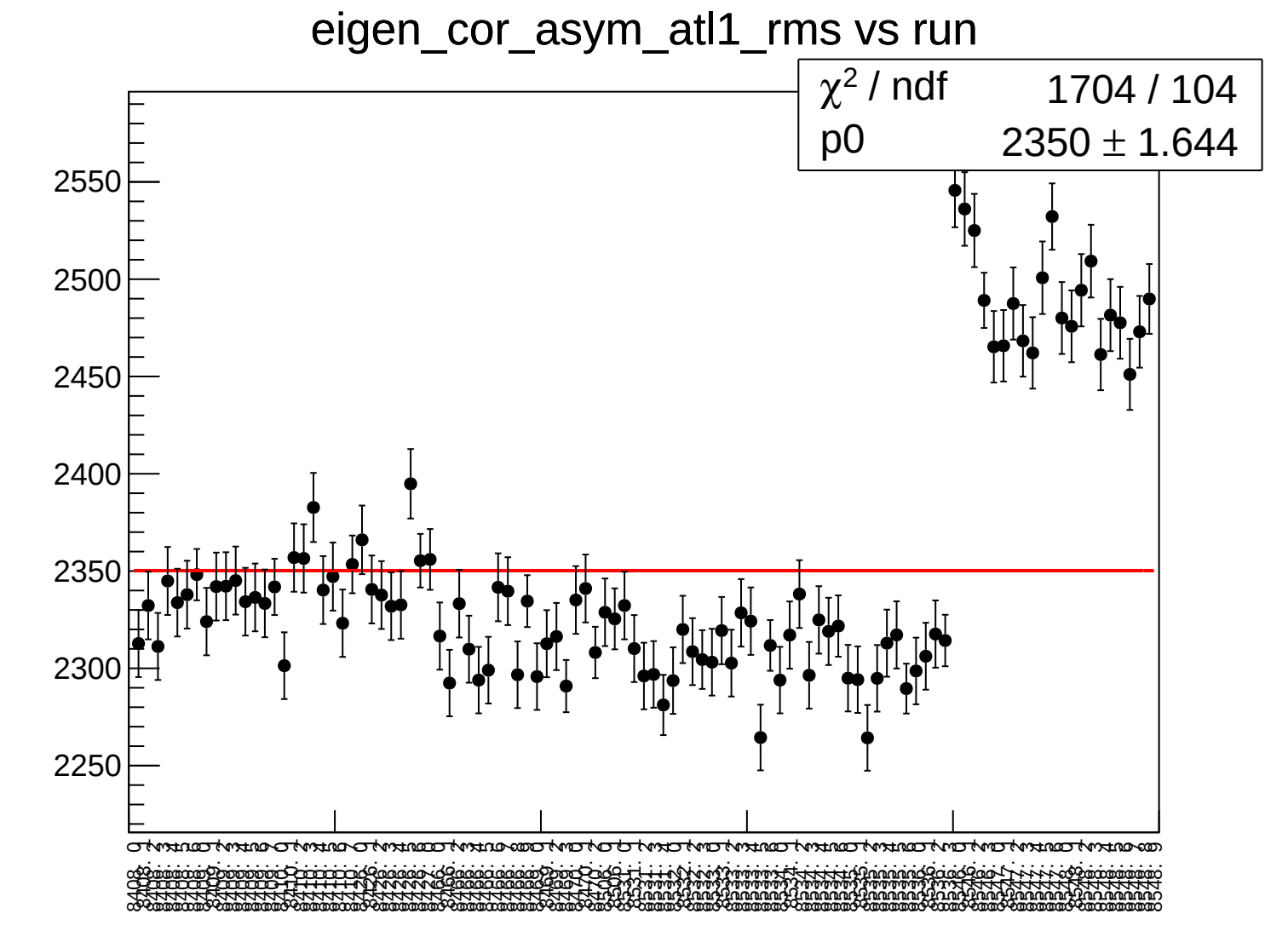

cor_asym_atl1_rms vs run
χ^2 / ndf 1704 / 104
p0 2350 ± 1.644
2550
2500
2450
2400
2350
2300
2250

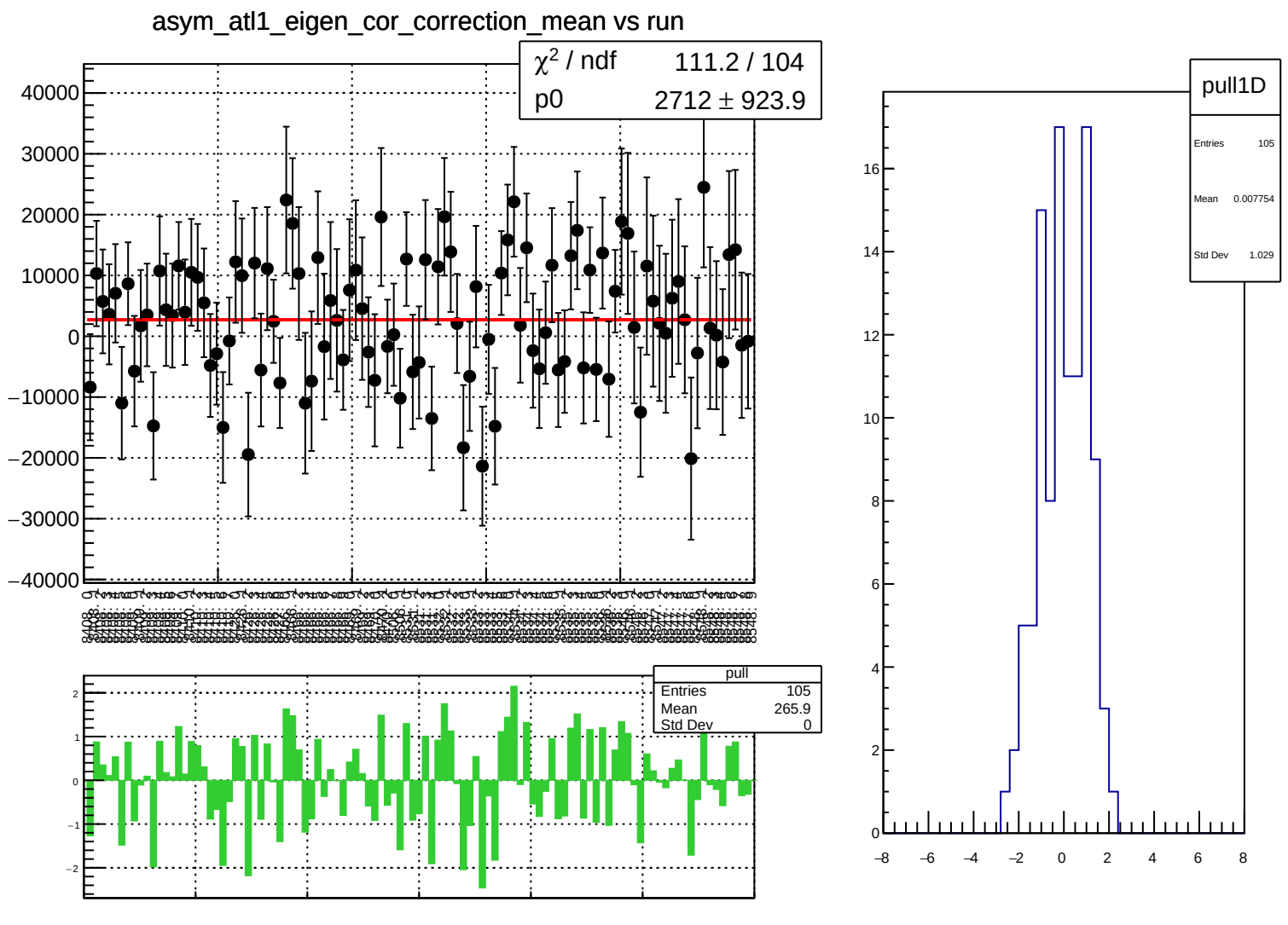

asym_atl1_cor_correction_mean vs run
χ² / ndf 111.2 / 104
p0 2712 ± 923.9
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 105
Mean 265.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.007754
Std Dev 1.029
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

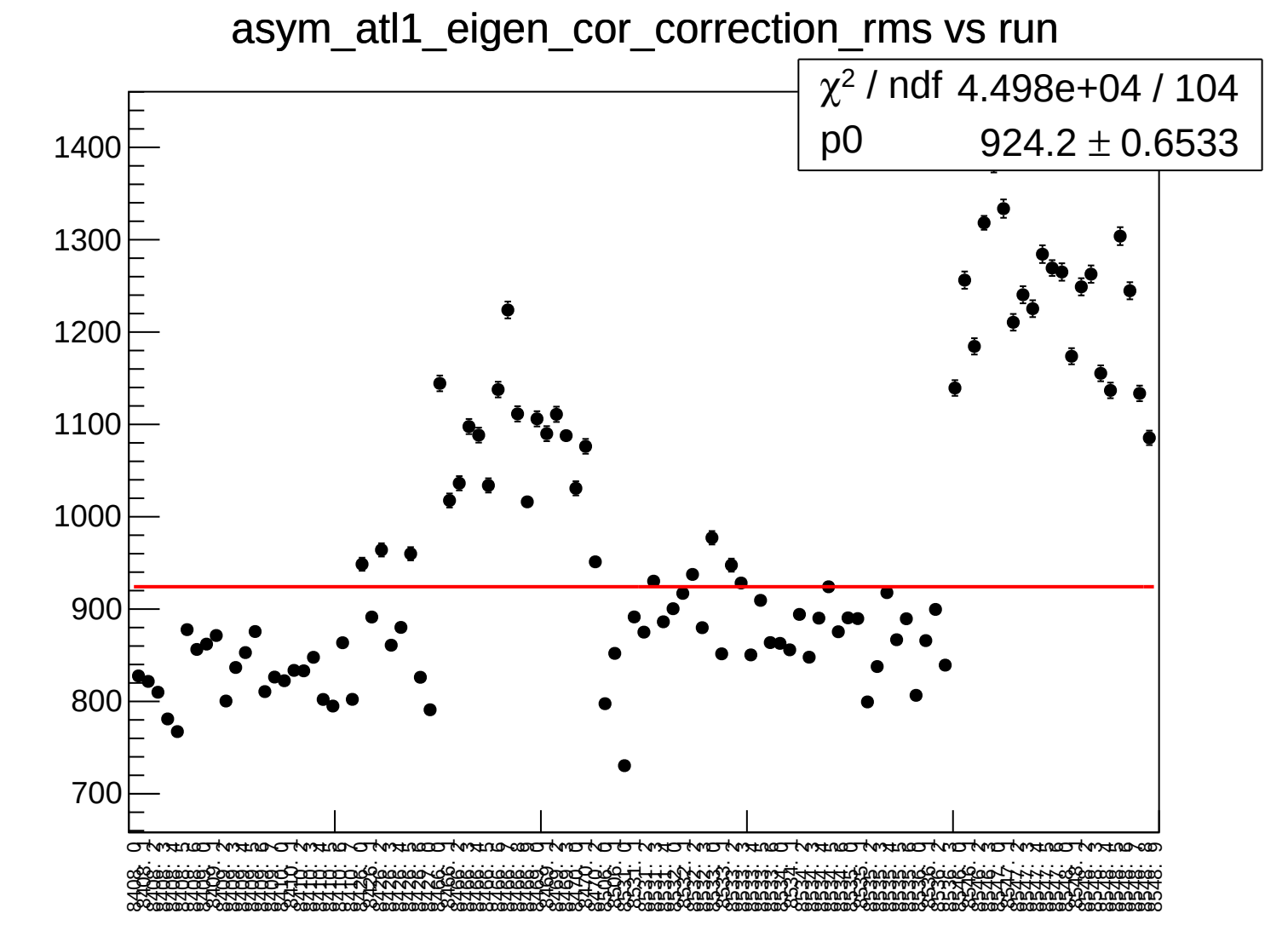

asym_atl1_cor_correction_rms vs run
χ² / ndf 4.498e+04 / 104
p0 924.2 ± 0.6533
1400
1300
1200
1100
1000
900
800
700

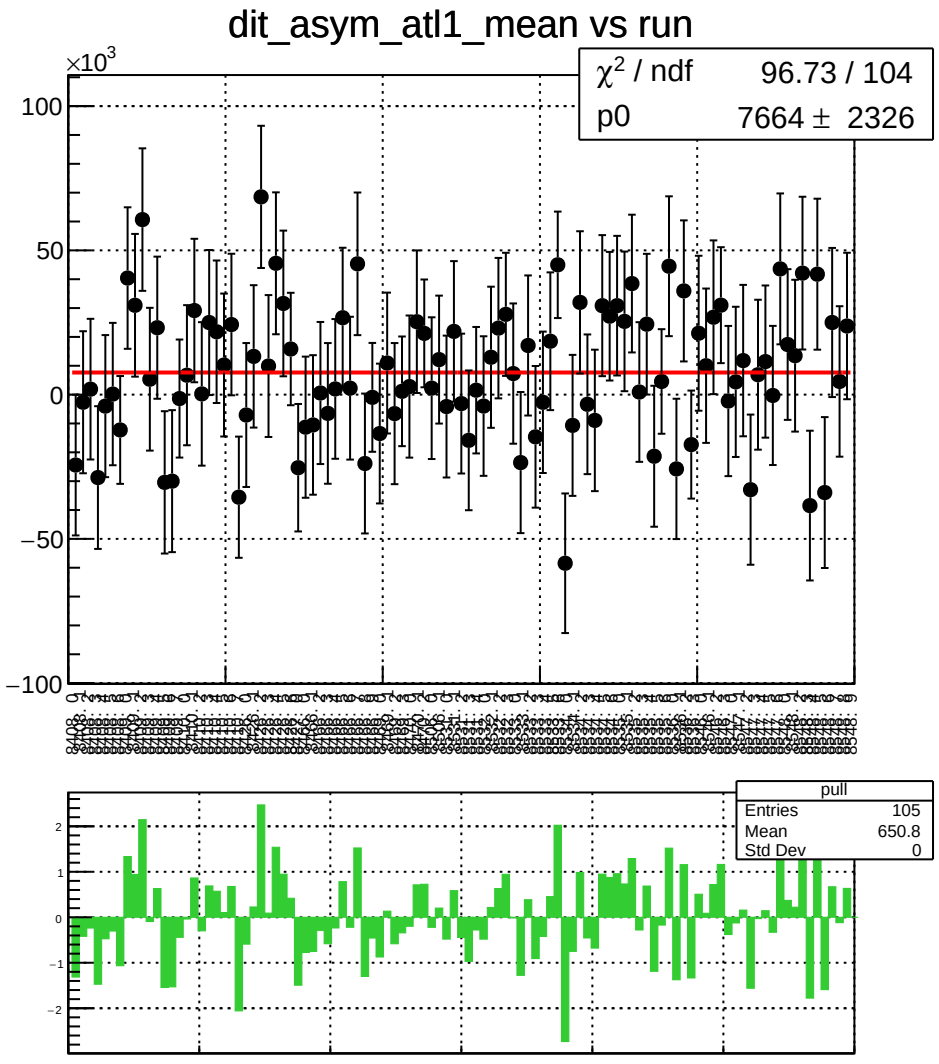

eigen_cor_asym_atl1_mean vs run
×10^3
χ^2 / ndf 95.79 / 104
p0 7764 ± 2325
pull
Entries 105
Mean 621.9
Std Dev 0

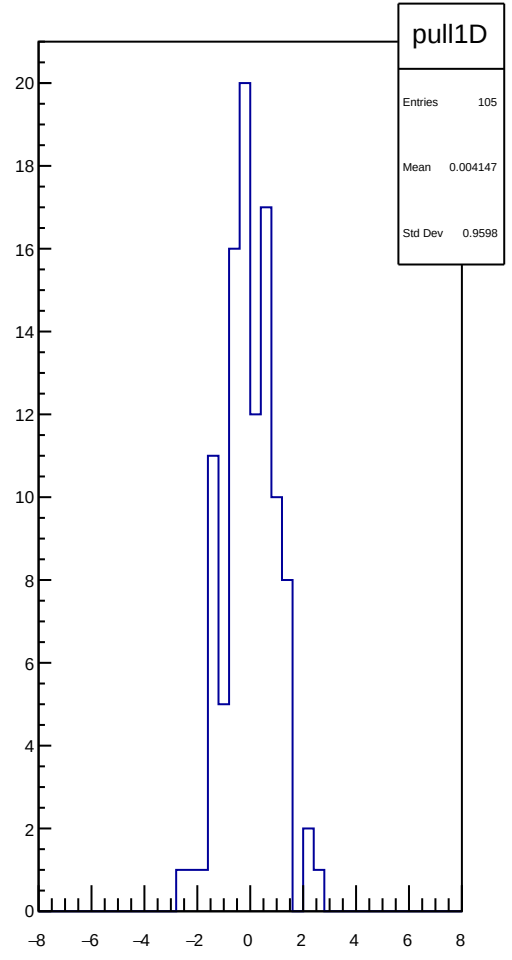

pull1D
Entries 105
Mean 0.004337
Std Dev 0.9551

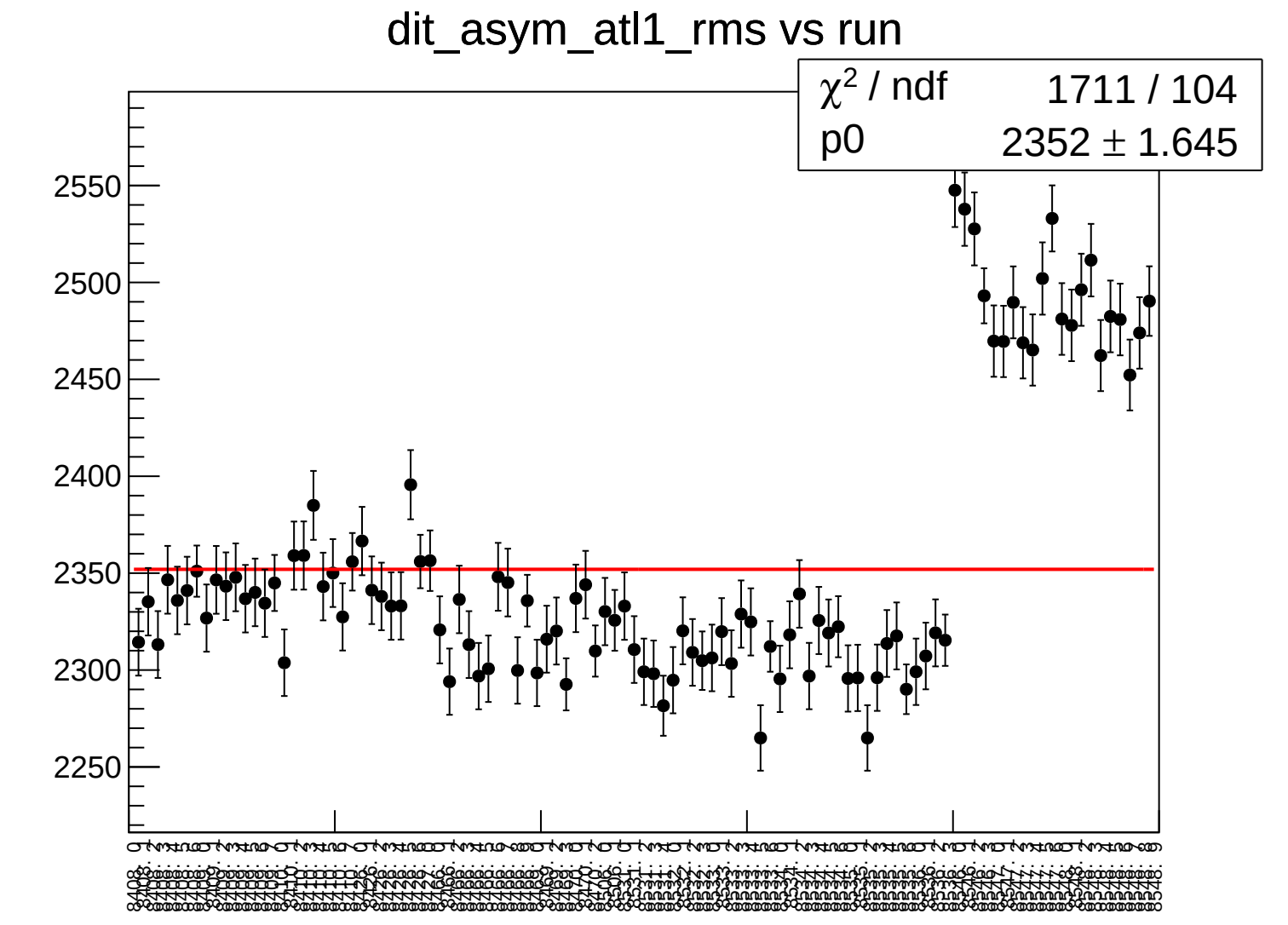

eigen_cor_asym_atl1_rms vs run
χ^2 / ndf 1704 / 104
p0 2350 ± 1.644
2550
2500
2450
2400
2350
2300
2250

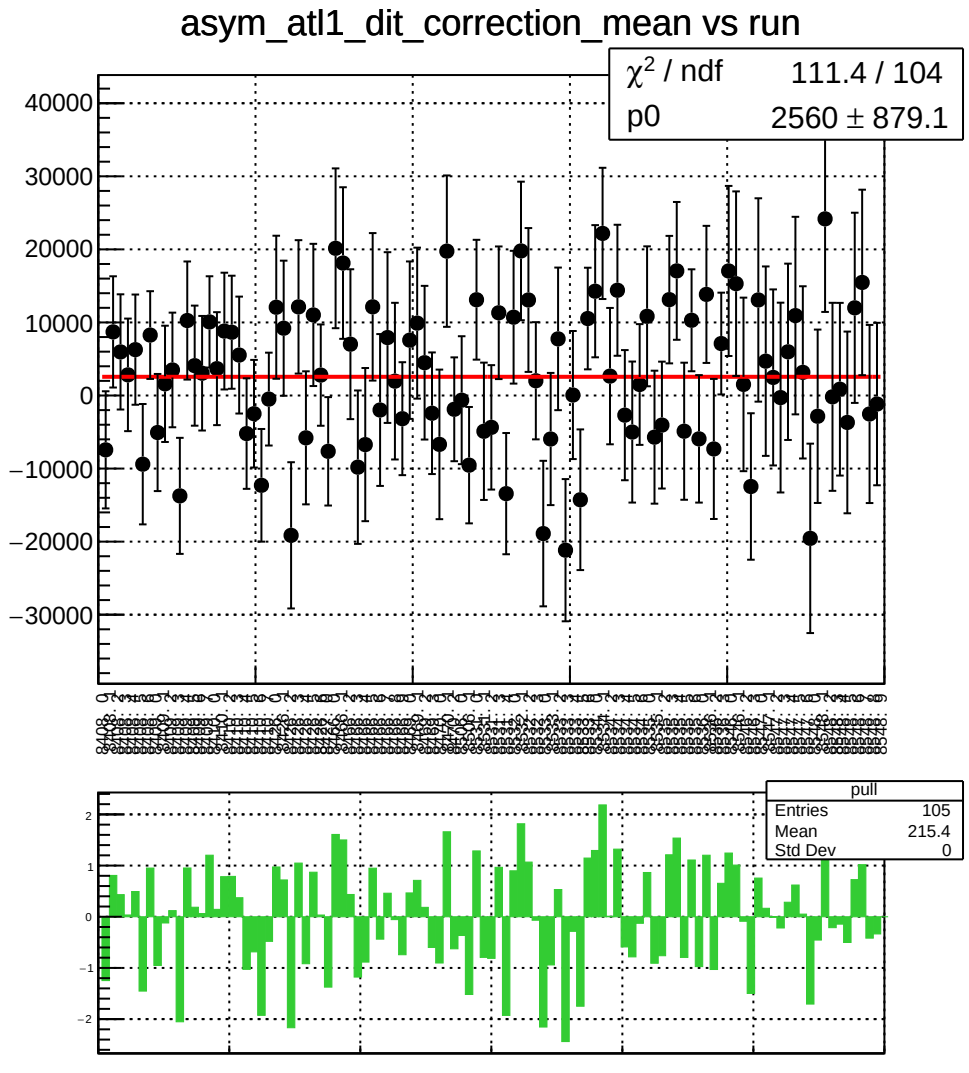

asym_atl1_eigen_cor_correction_mean vs run
χ² / ndf 111.2 / 104
p0 2712 ± 923.9
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 105
Mean 265.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.007754
Std Dev 1.029
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

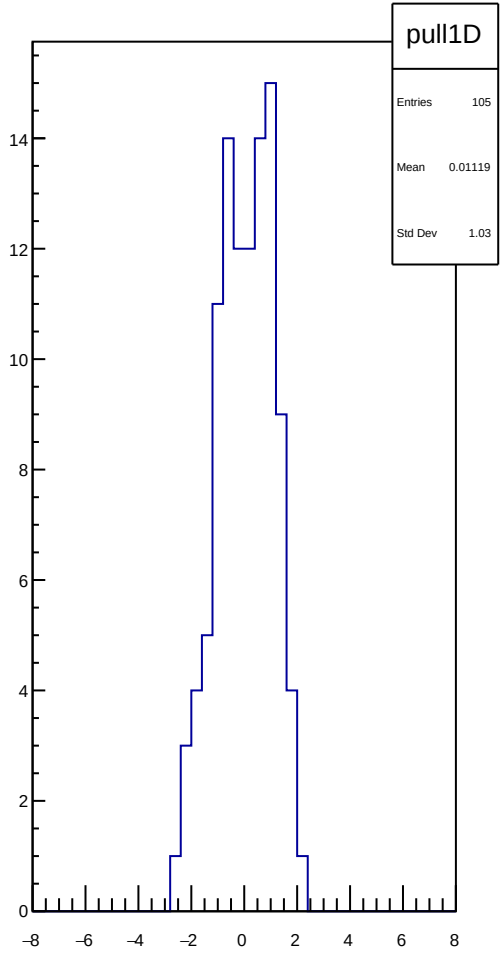

asym_atl1_eigen_cor_correction_rms vs run
χ² / ndf 4.498e+04 / 104
p0 924.2 ± 0.6533
1400
1300
1200
1100
1000
900
800
700

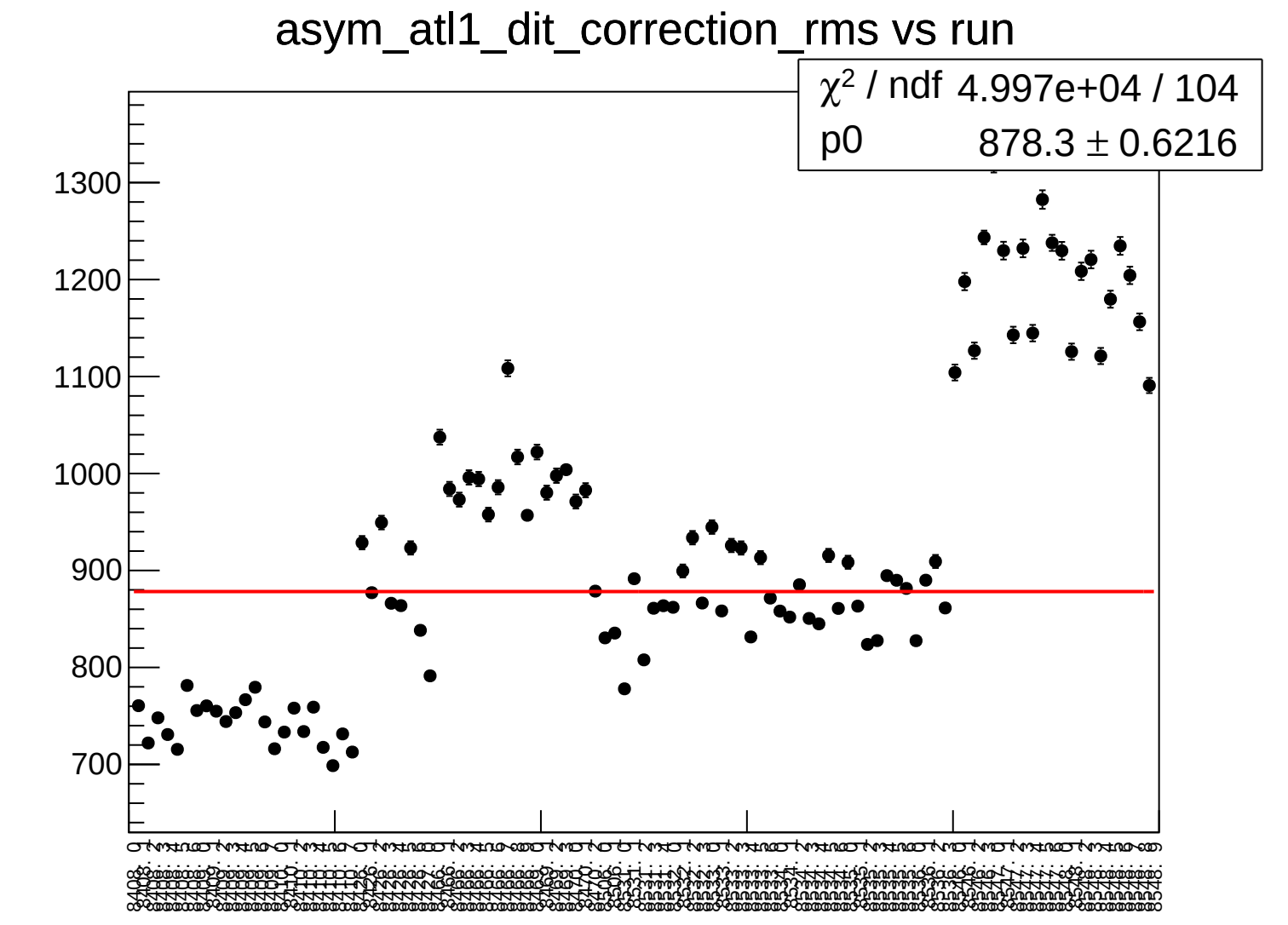

dit_asym_atl1_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 96.73 / 104
p0 7664 ± 2326
pull
Entries 105
Mean 650.8
Std Dev 0
2
1
0
−1
−2

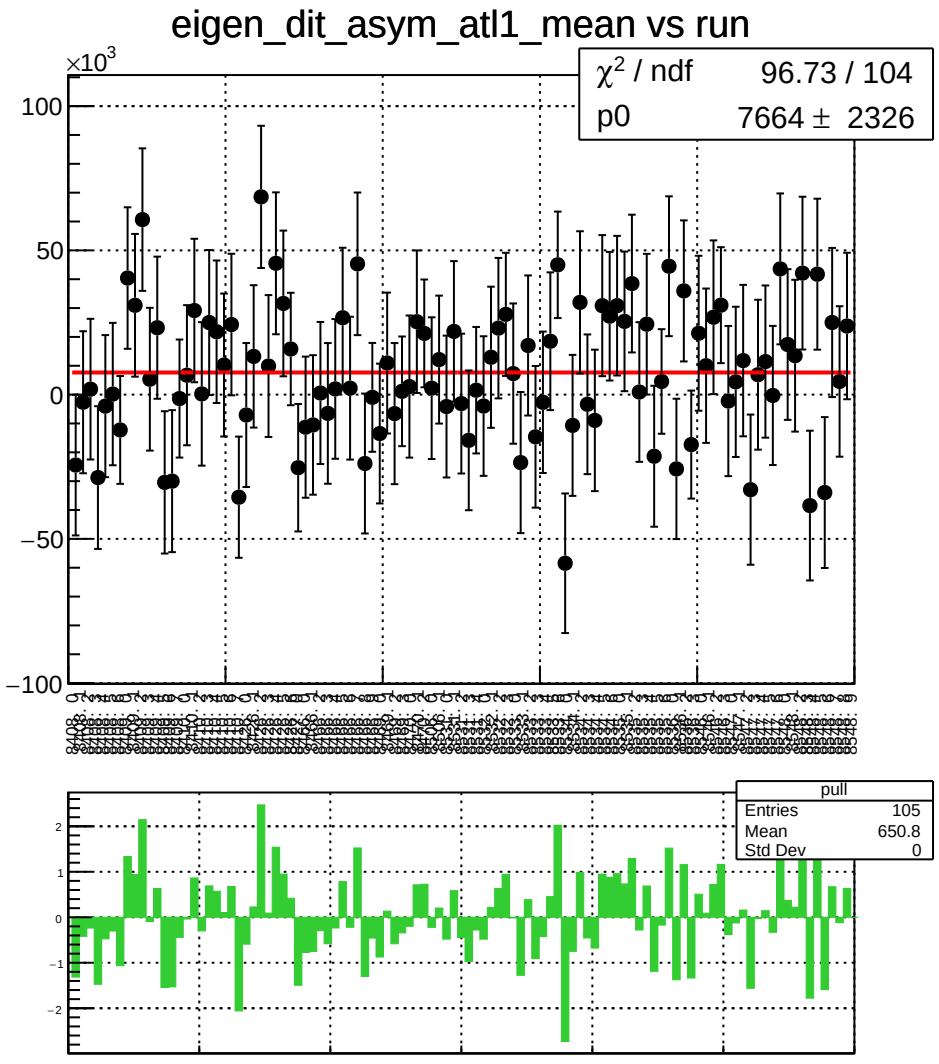

pull1D
Entries 105
Mean 0.004147
Std Dev 0.9598
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

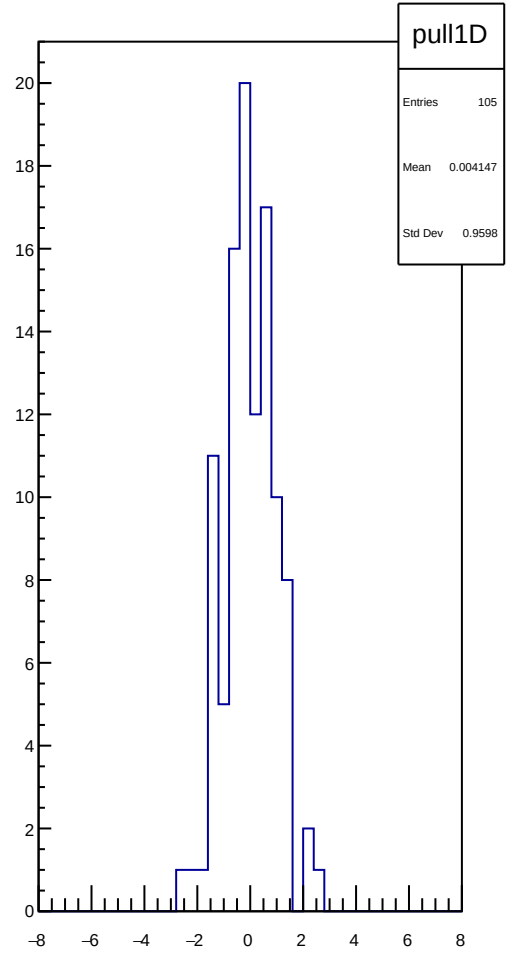

dit_asym_atl1_rms vs run
χ^2 / ndf 1711 / 104
p0 2352 ± 1.645
2550
2500
2450
2400
2350
2300
2250

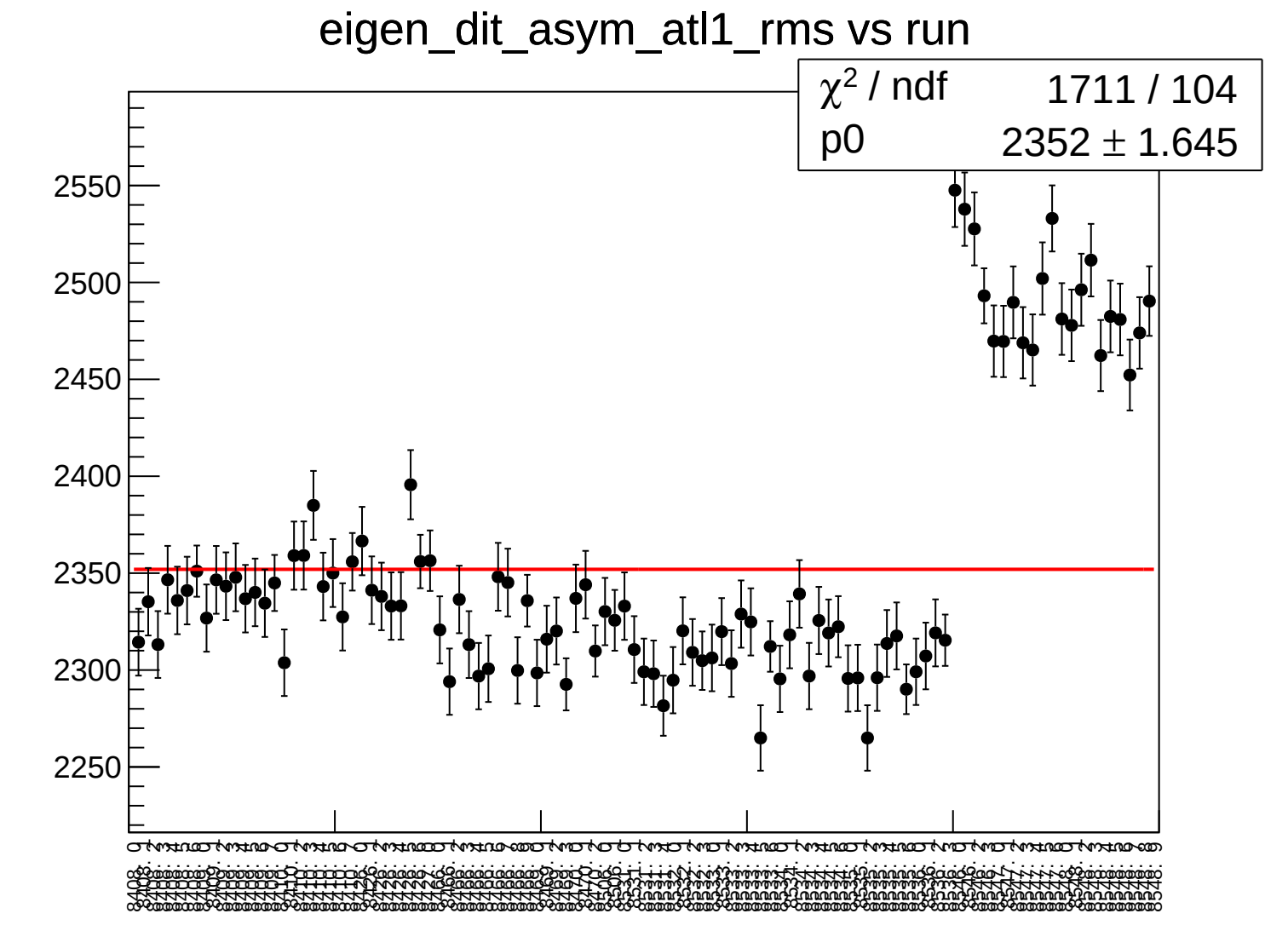

asym_atl1_dit_correction_mean vs run
χ² / ndf 111.4 / 104
p0 2560 ± 879.1
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 105
Mean 215.4
Std Dev 0
2
1
0
−1
−2

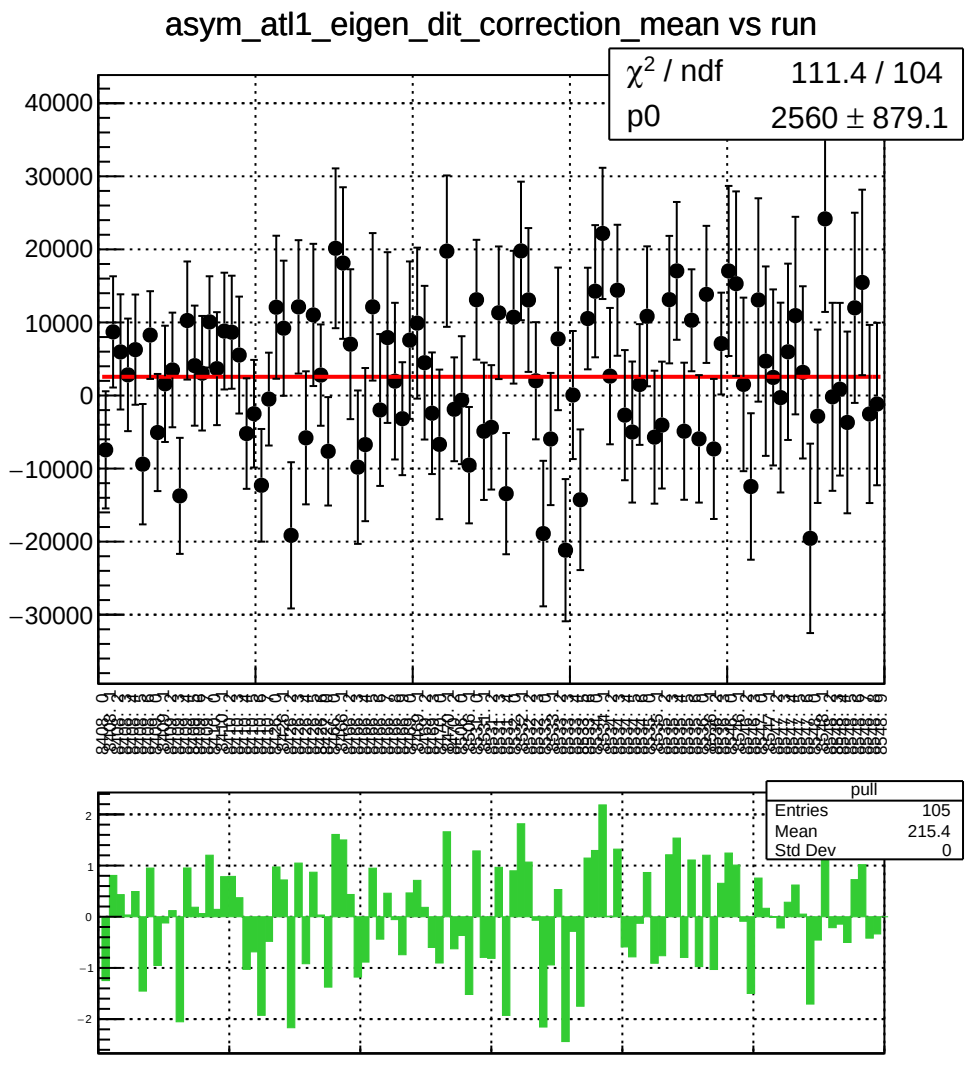

pull1D
Entries 105
Mean 0.01119
Std Dev 1.03
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

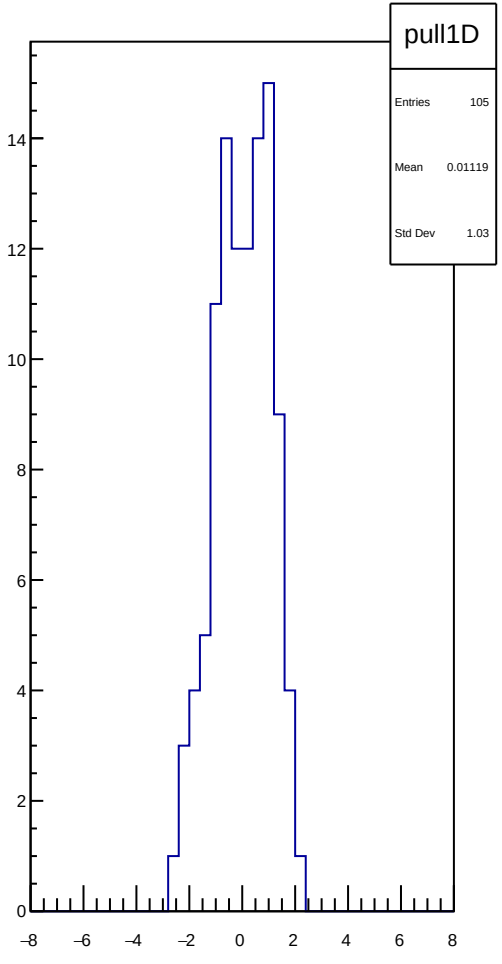

asym_atl1_dit_correction_rms vs run
χ² / ndf 4.997e+04 / 104
p0 878.3 ± 0.6216
1300
1200
1100
1000
900
800
700

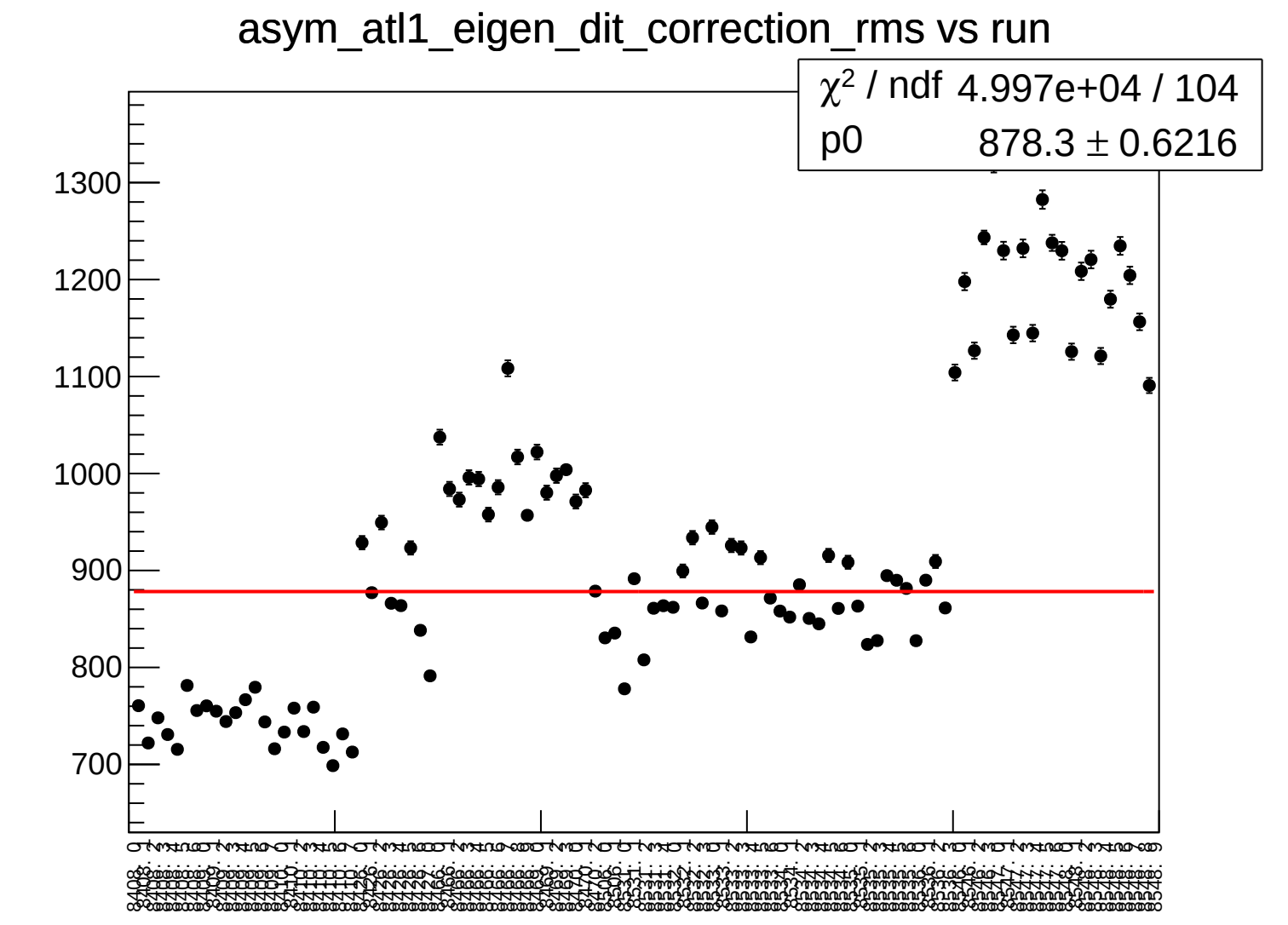

eigen_dit_asym_atl1_mean vs run
×10^3
χ^2 / ndf 96.73 / 104
p0 7664 ± 2326
100
50
0
−50
−100
pull
Entries 105
Mean 650.8
Std Dev 0
2
1
0
−1
−2

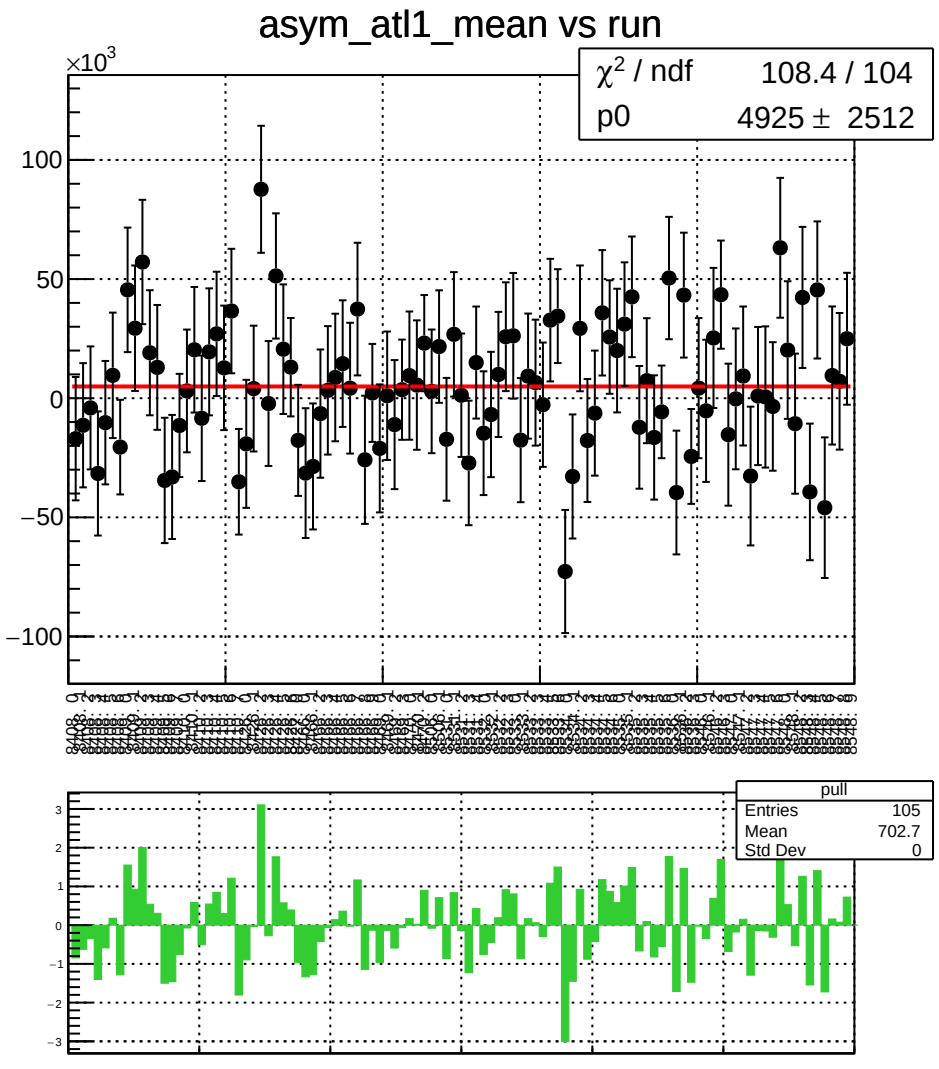

pull1D
Entries 105
Mean 0.004147
Std Dev 0.9598
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

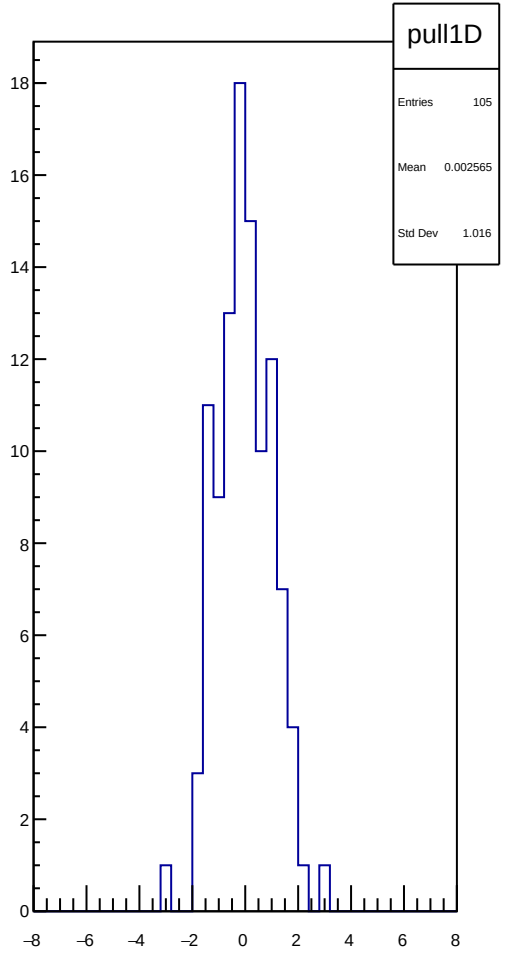

eigen_dit_asym_atl1_rms vs run
χ^2 / ndf 1711 / 104
p0 2352 ± 1.645
2550
2500
2450
2400
2350
2300
2250

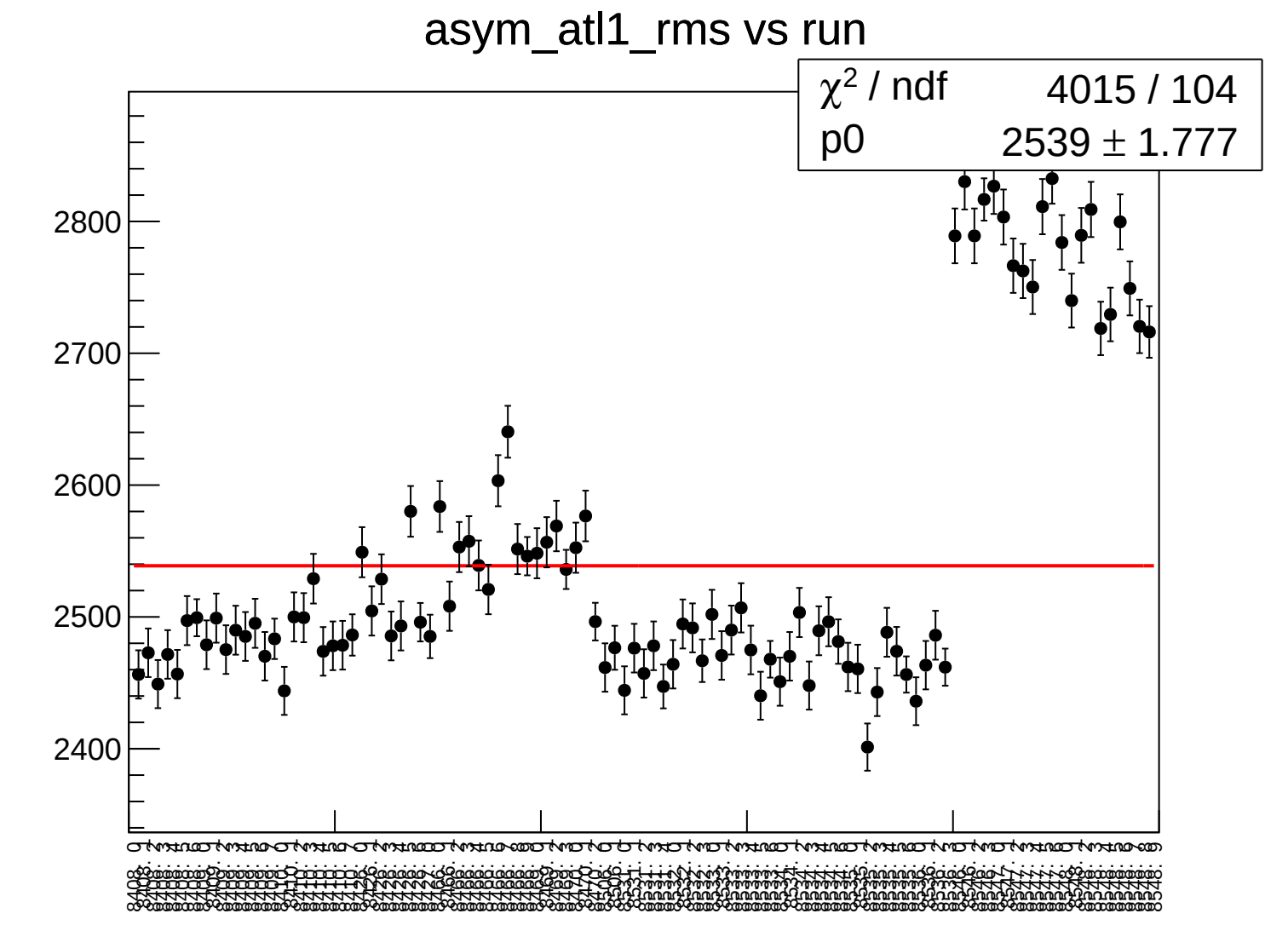

asym_atl1_eigen_dit_correction_mean vs run
χ² / ndf 111.4 / 104
p0 2560 ± 879.1
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 105
Mean 215.4
Std Dev 0
2
1
0
−1
−2

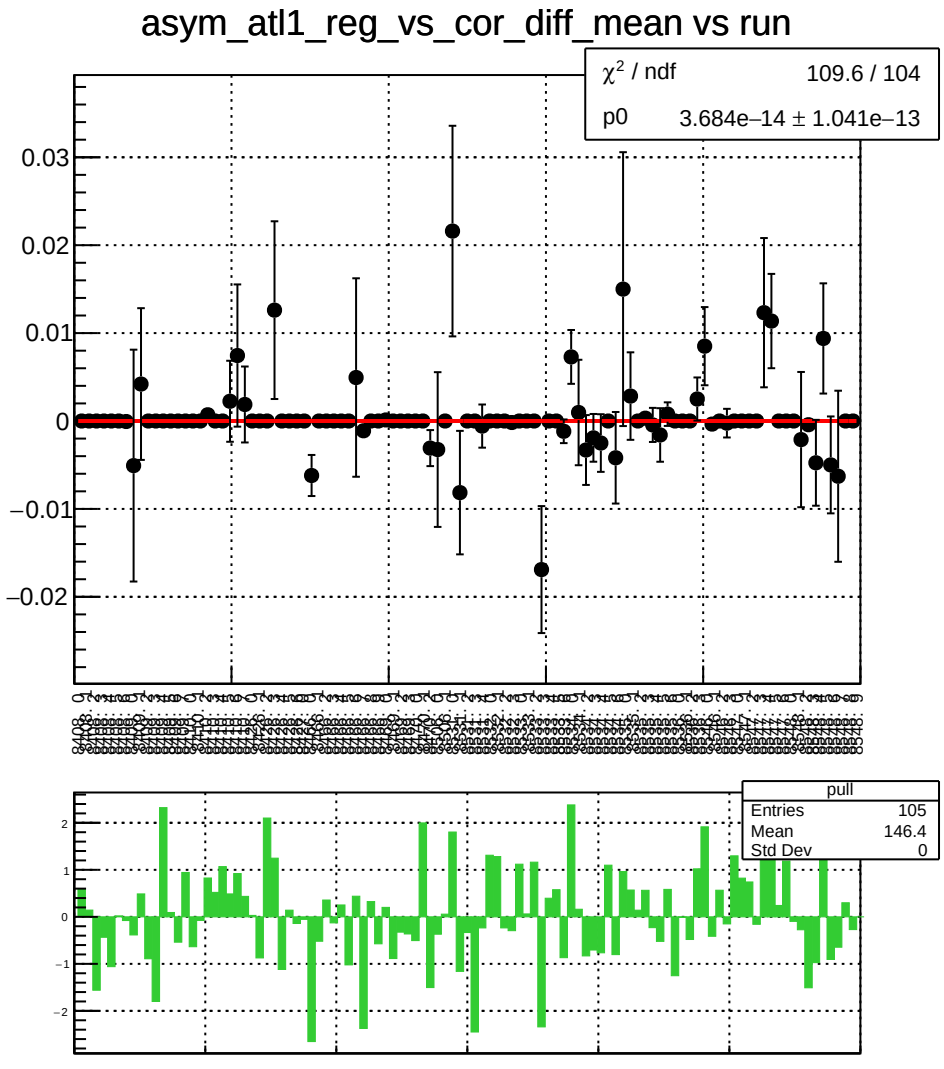

pull1D
Entries 105
Mean 0.01119
Std Dev 1.03
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

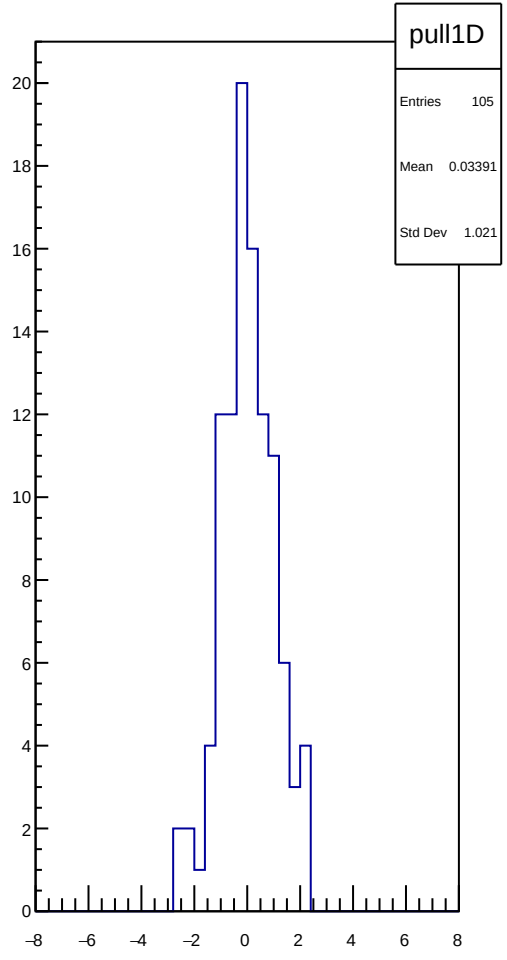

asym_atl1_eigen_dit_correction_rms vs run
χ² / ndf 4.997e+04 / 104
p0 878.3 ± 0.6216
1300
1200
1100
1000
900
800
700

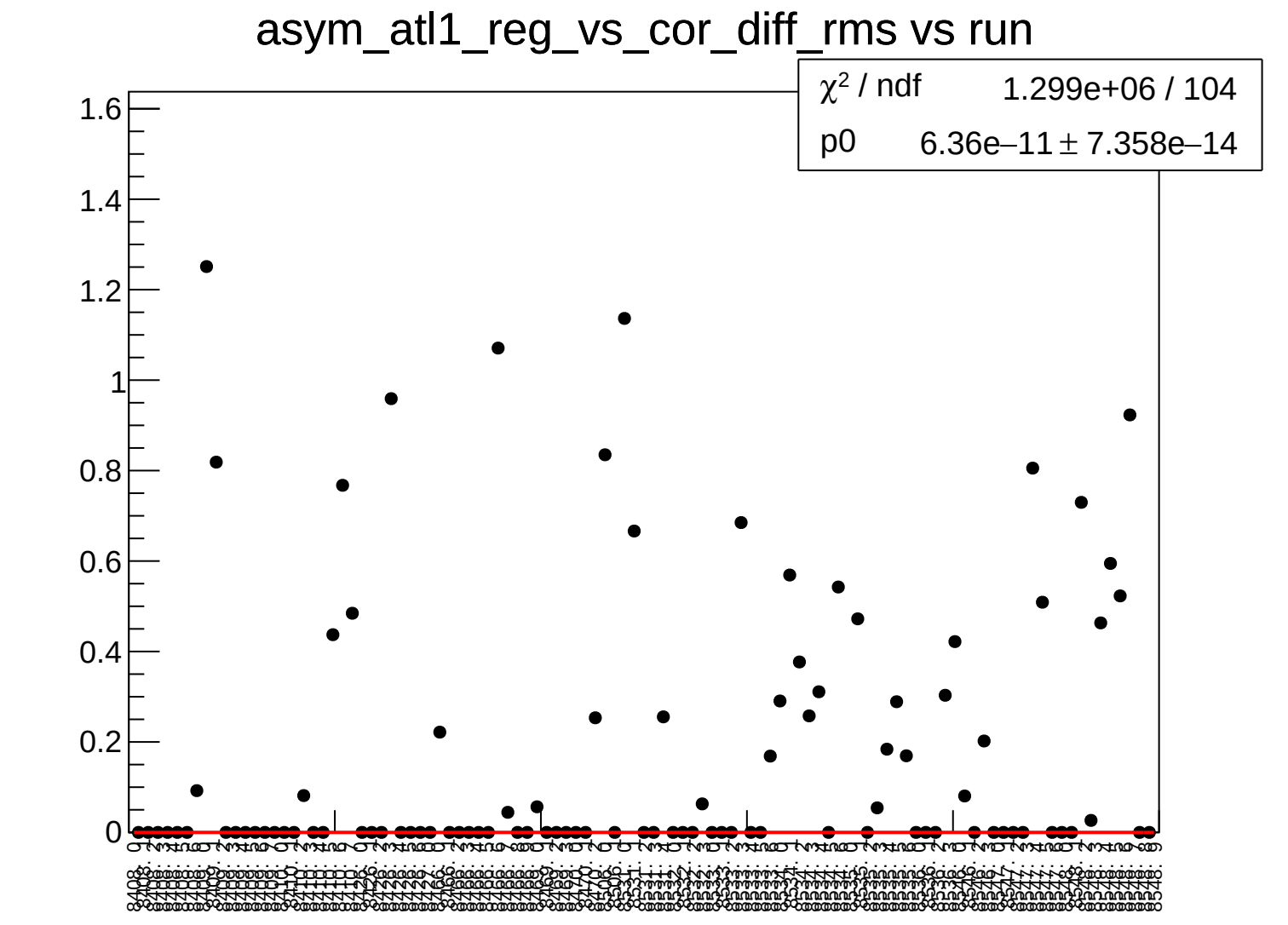

asym_atl1_mean vs run
×10^3
χ^2 / ndf 108.4 / 104
p0 4925 ± 2512
100
50
0
−50
−100
pull
Entries 105
Mean 702.7
Std Dev 0
3
2
1
0
−1
−2
−3

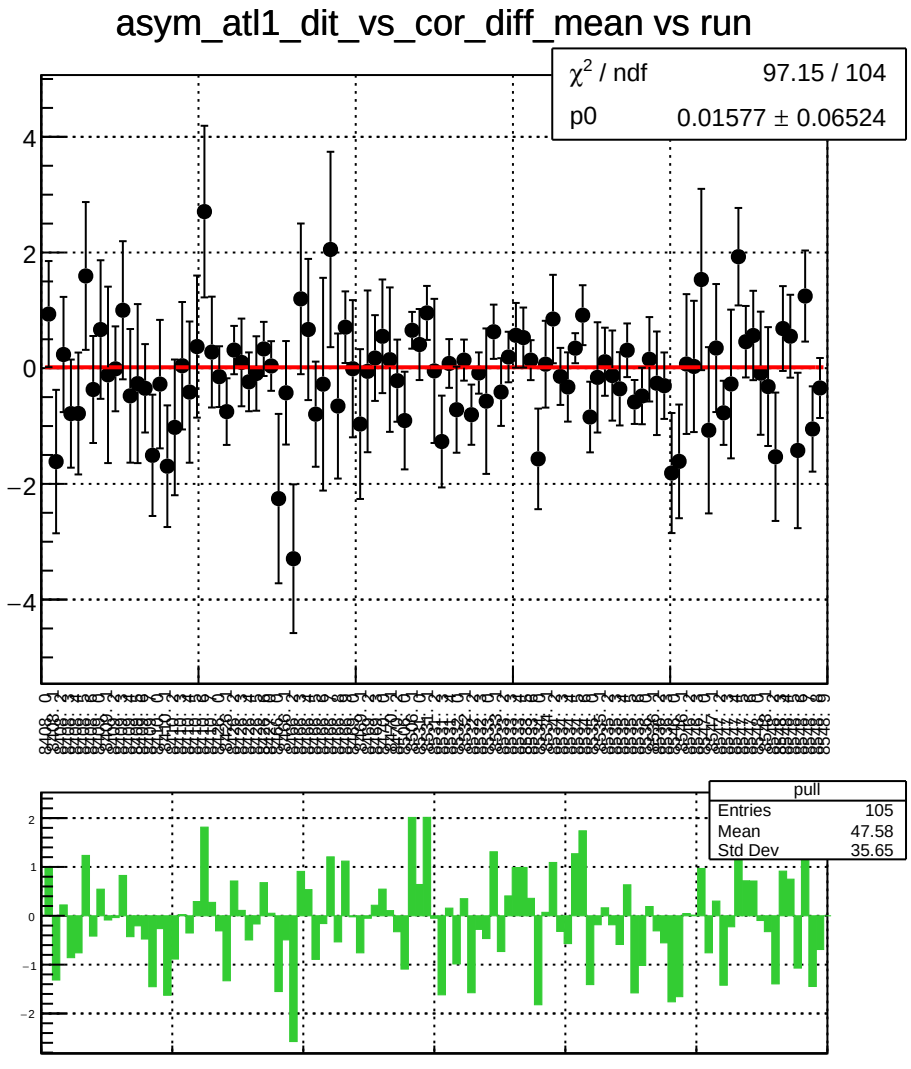

pull1D
Entries 105
Mean 0.002565
Std Dev 1.016
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

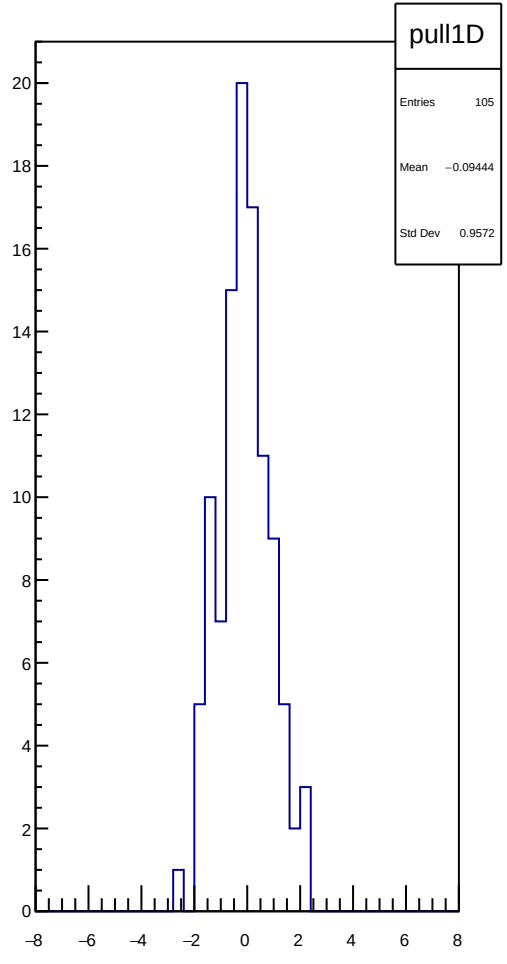

asym_atl1_rms vs run
χ² / ndf 4015 / 104
p0 2539 ± 1.777
2800
2700
2600
2500
2400

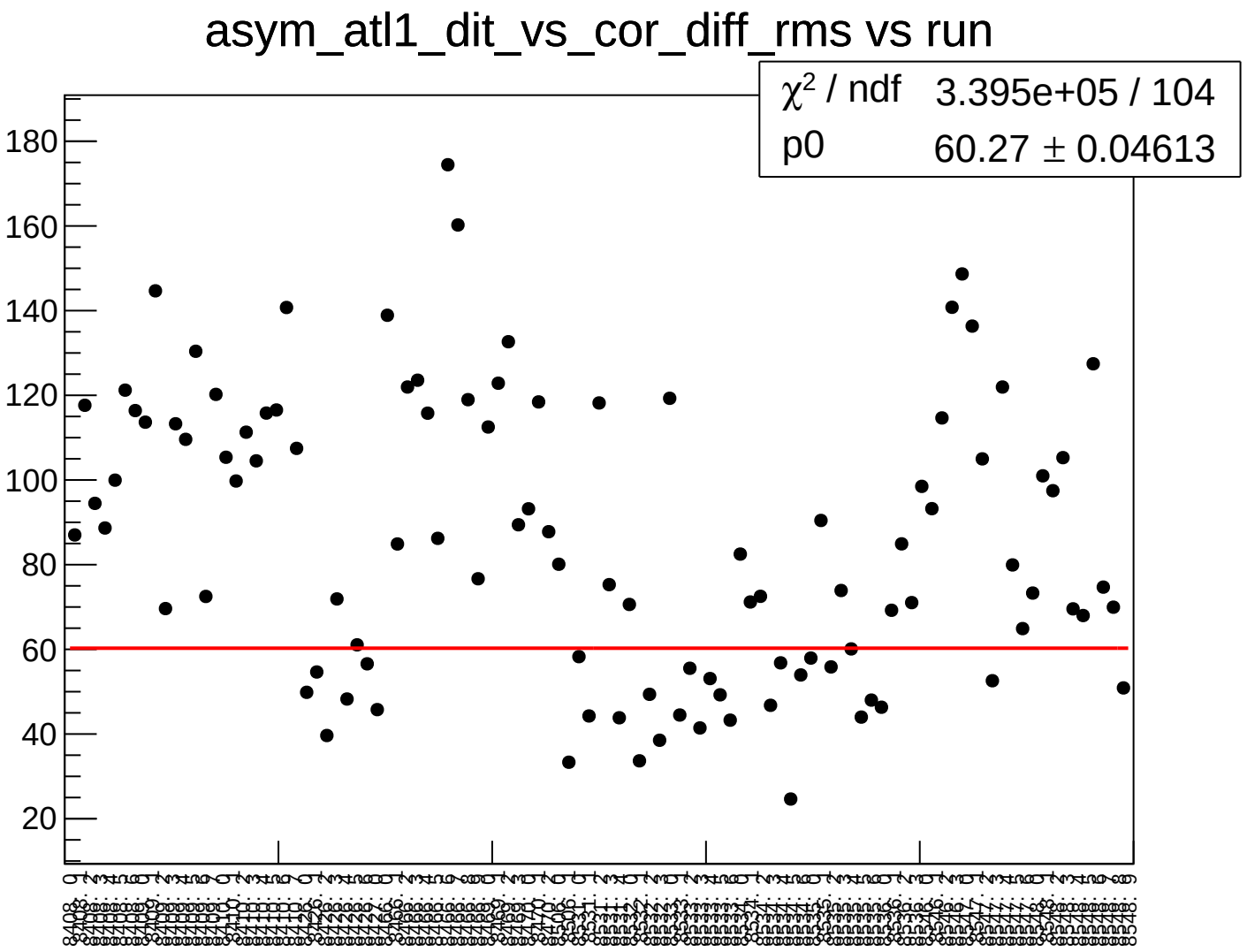

asym_atl1_reg_vs_cor_diff_mean vs run
χ² / ndf 109.6 / 104
p0 3.684e−14 ± 1.041e−13
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 105
Mean 146.4
Std Dev 0
2
1
0
−1
−2

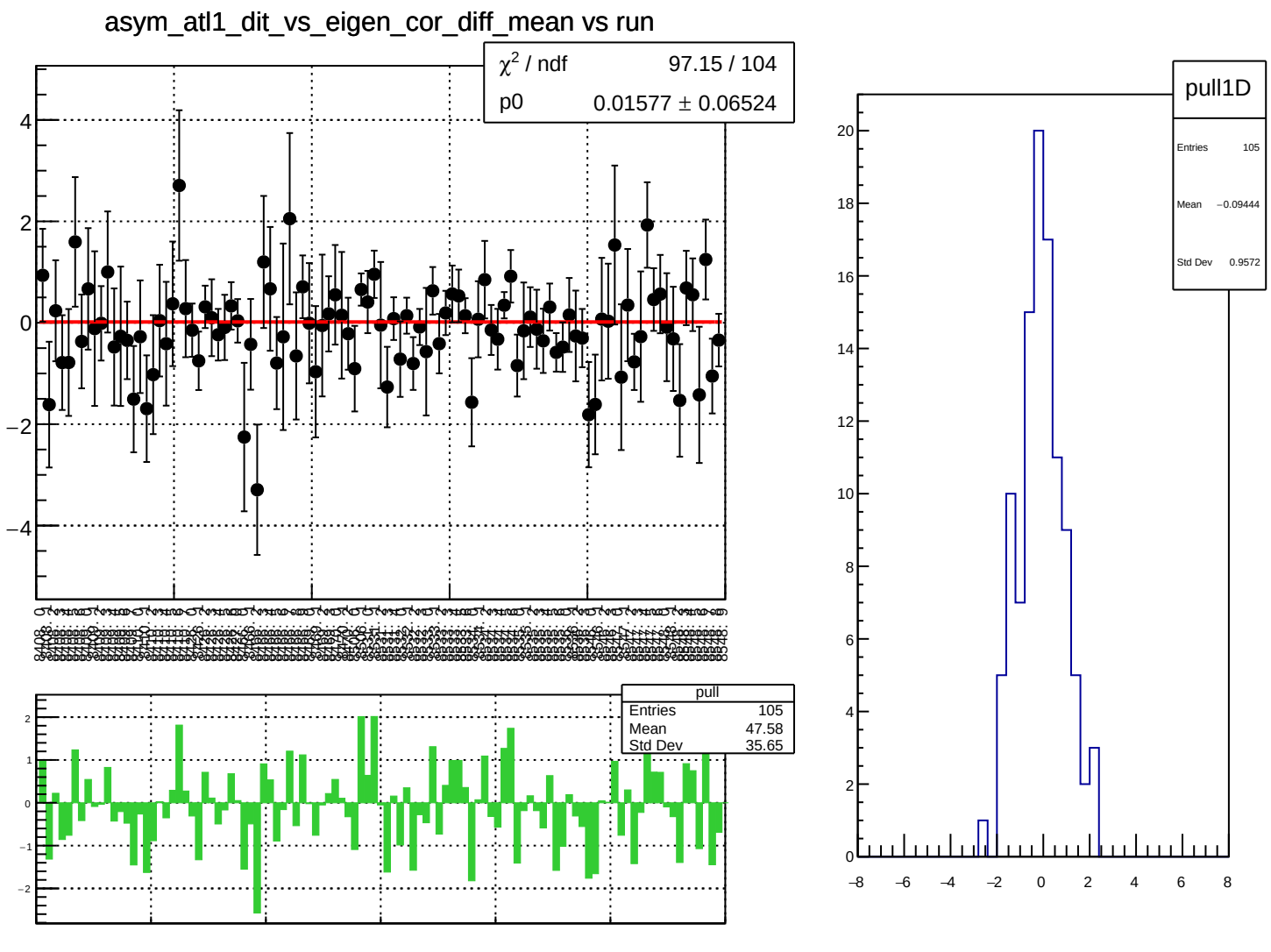

pull1D
Entries 105
Mean 0.03391
Std Dev 1.021
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

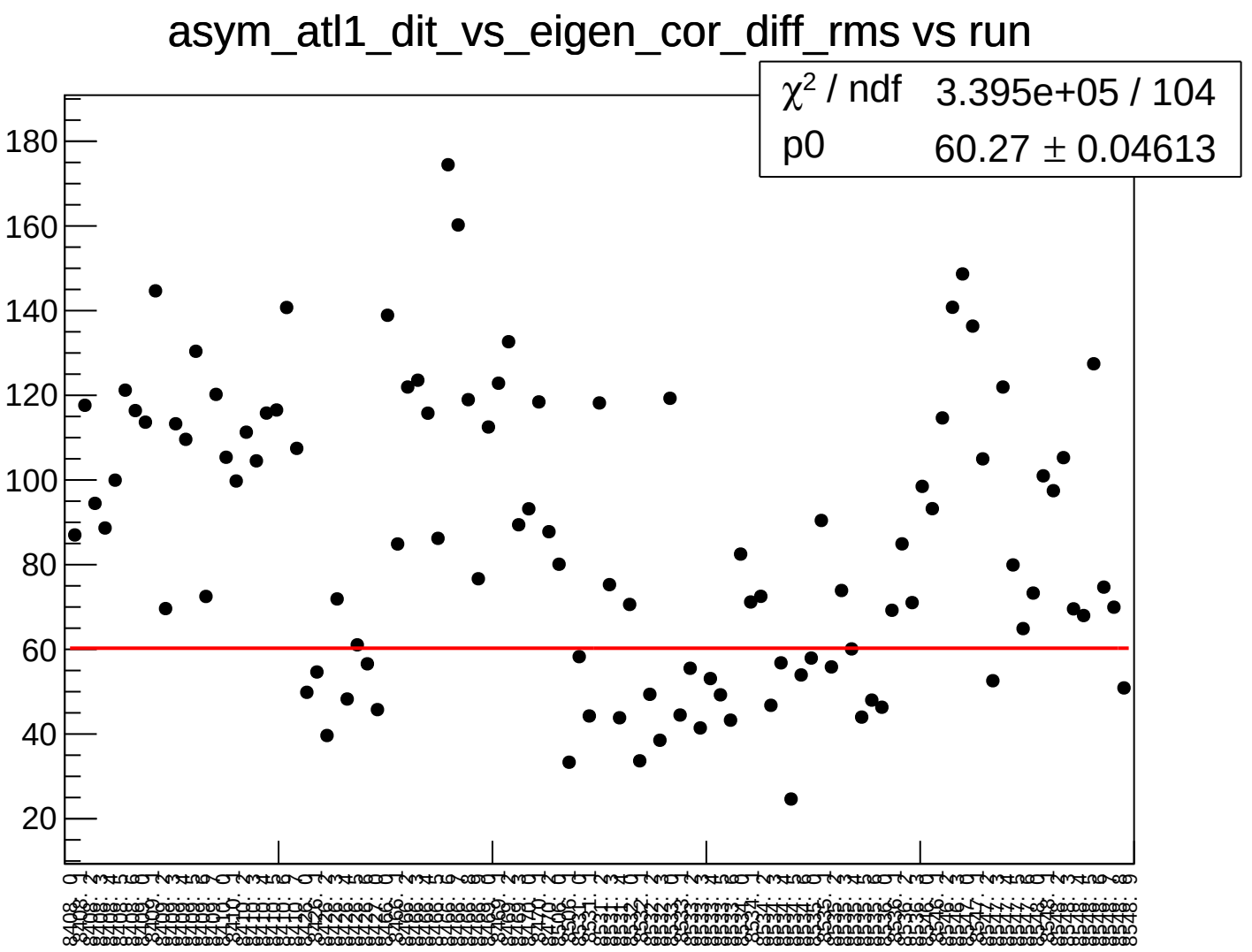

asym_atl1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.299e+06 / 104
p0 6.36e−11 ± 7.358e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

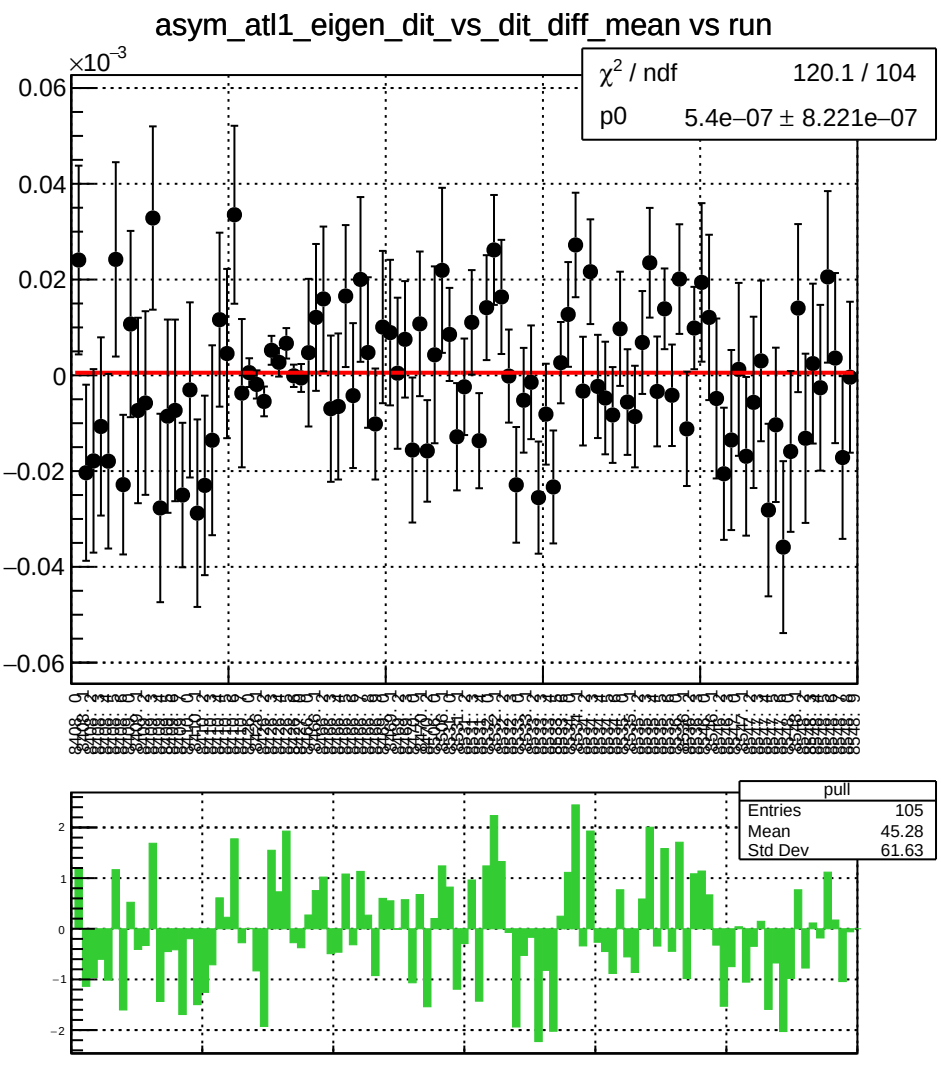

asym_atl1_dit_vs_cor_diff_mean vs run
χ² / ndf 97.15 / 104
p0 0.01577 ± 0.06524
pull
Entries 105
Mean 47.58
Std Dev 35.65

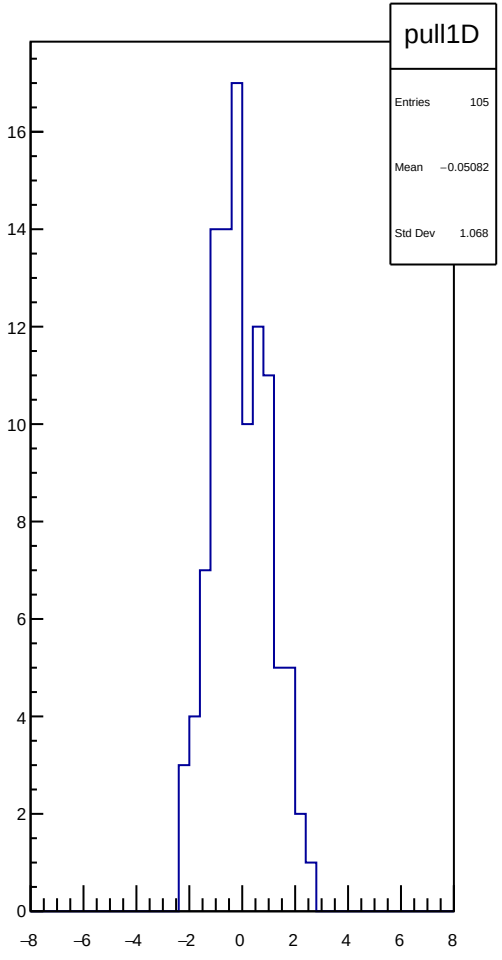

pull1D
Entries 105
Mean −0.09444
Std Dev 0.9572

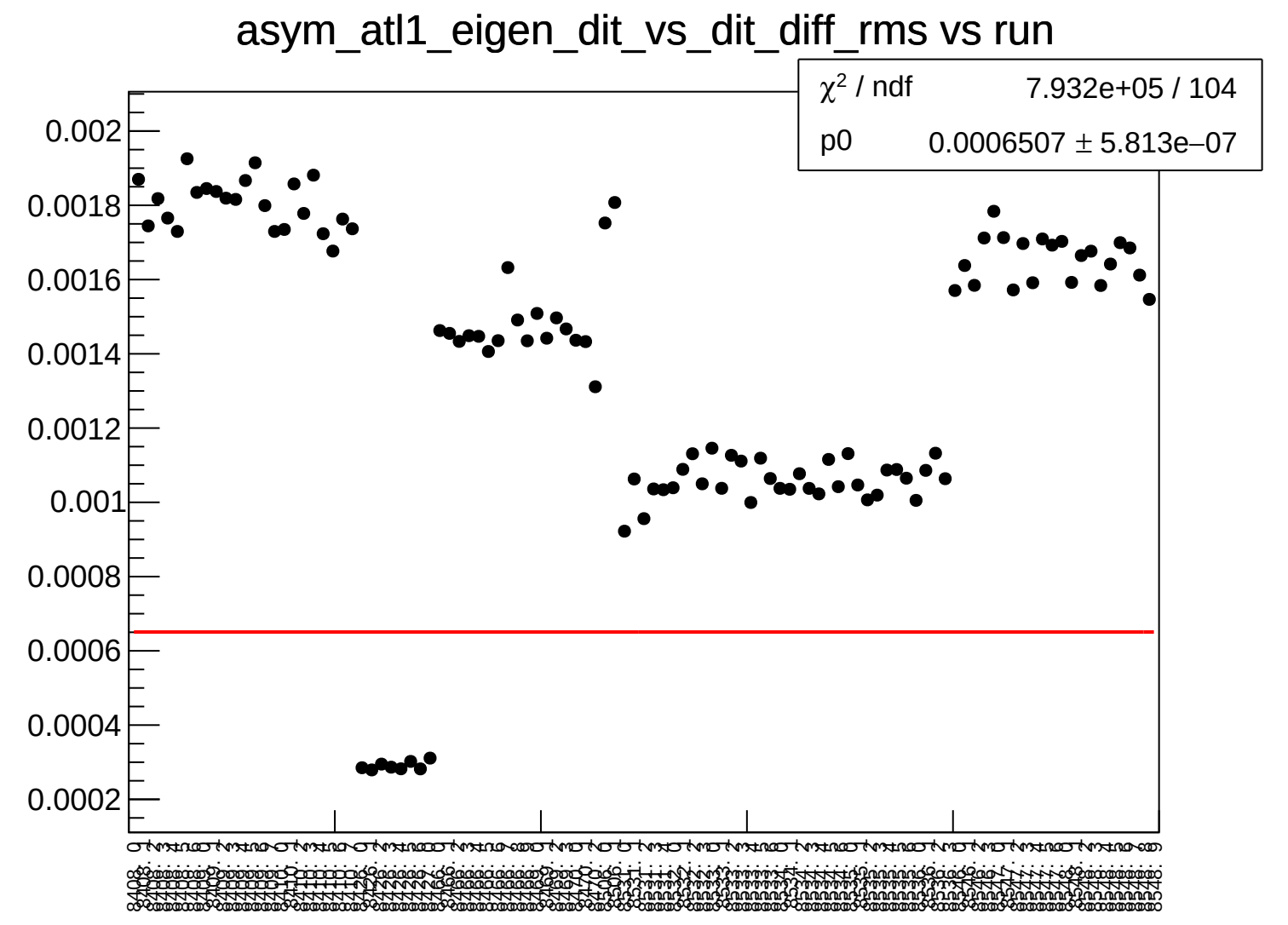

asym_atl1_dit_vs_cor_diff_rms vs run
χ² / ndf 3.395e+05 / 104
p0 60.27 ± 0.04613
180
160
140
120
100
80
60
40
20

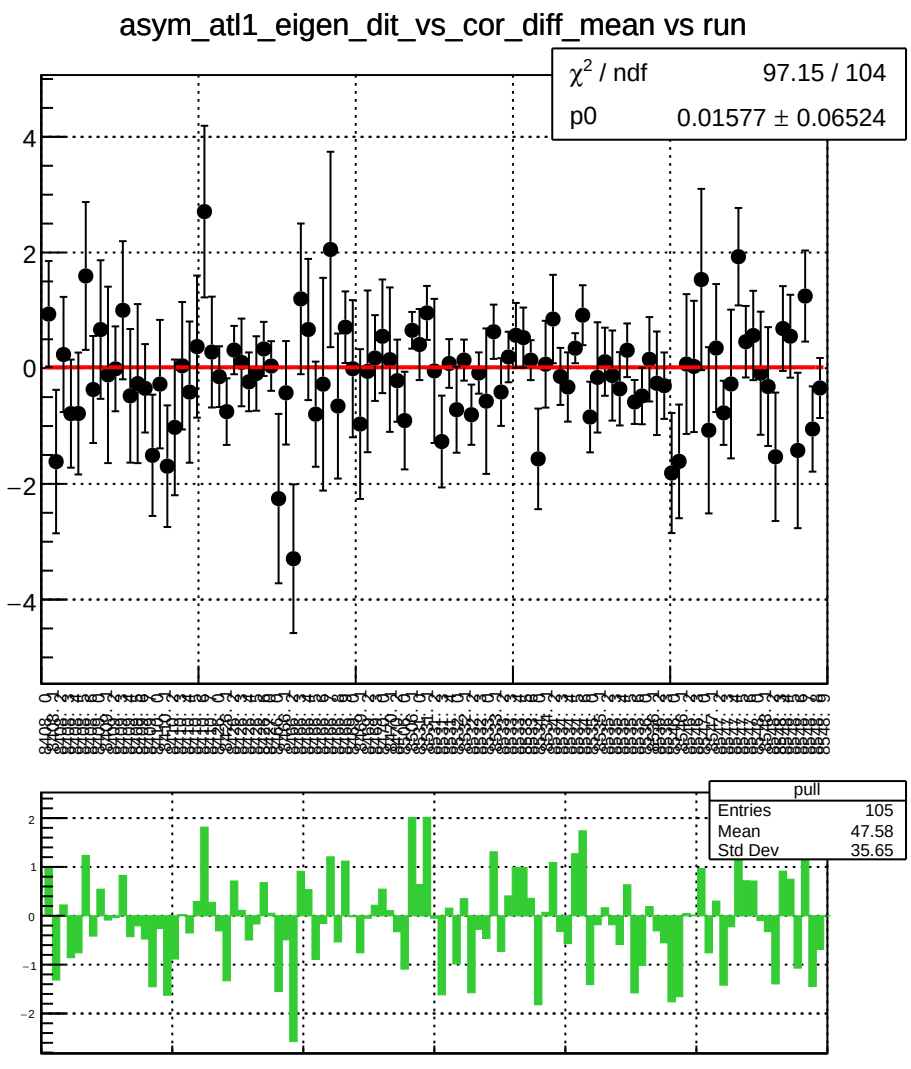

asym_atl1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.15 / 104
p0 0.01577 ± 0.06524
pull
Entries 105
Mean 47.58
Std Dev 35.65
pull1D
Entries 105
Mean −0.09444
Std Dev 0.9572

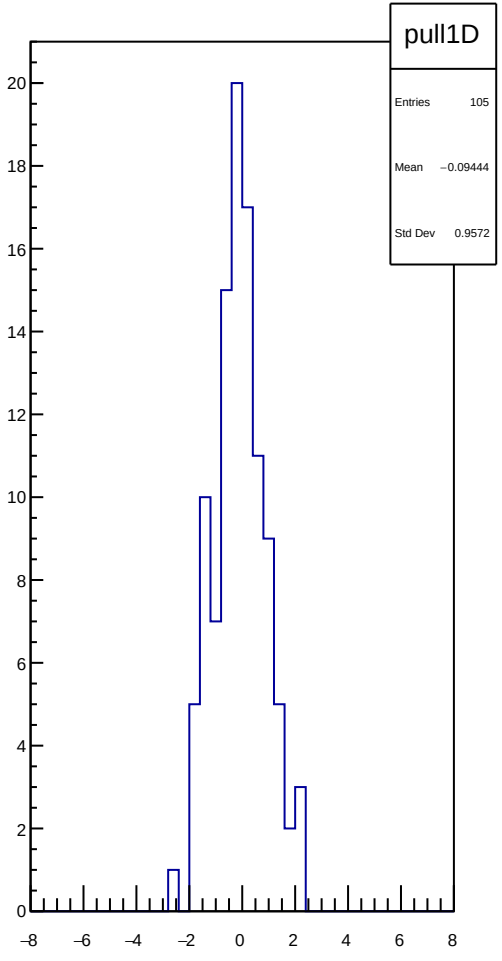

asym_atl1_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 3.395e+05 / 104
p0 60.27 ± 0.04613
180
160
140
120
100
80
60
40
20

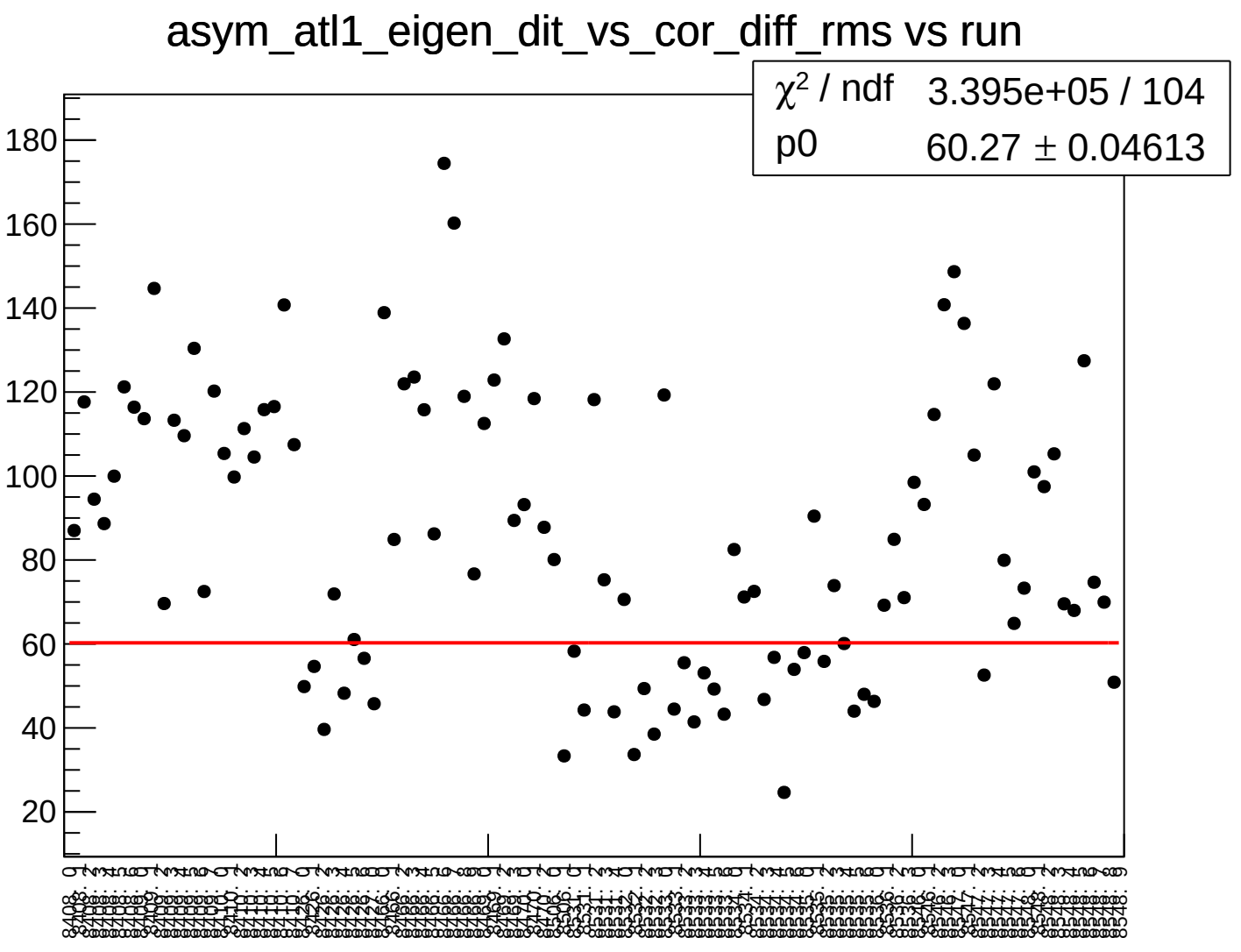

asym_atl1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 120.1 / 104
p0 5.4e–07 ± 8.221e–07
0.06
0.04
0.02
0
–0.02
–0.04
–0.06
pull
Entries 105
Mean 45.28
Std Dev 61.63
2
1
0
–1
–2

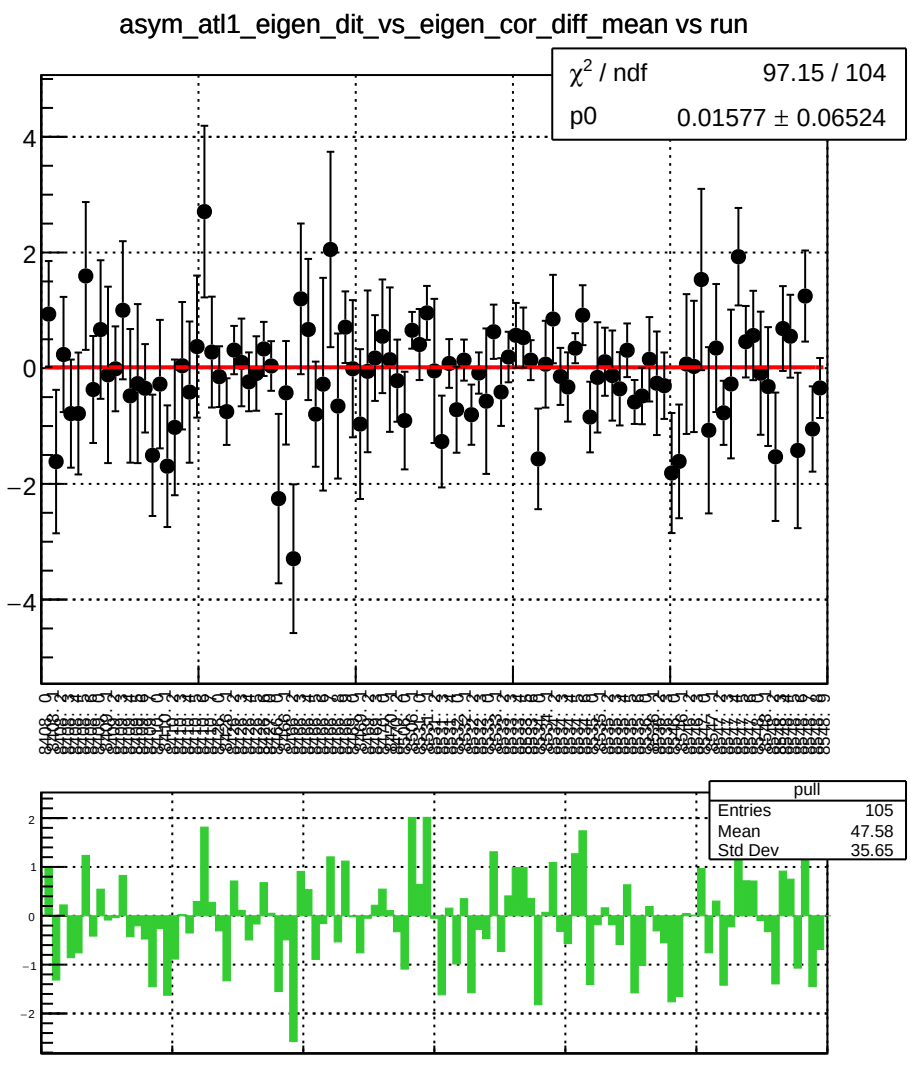

pull1D
Entries 105
Mean –0.05082
Std Dev 1.068
16
14
12
10
8
6
4
2
0
–8
–6
–4
–2
0
2
4
6
8

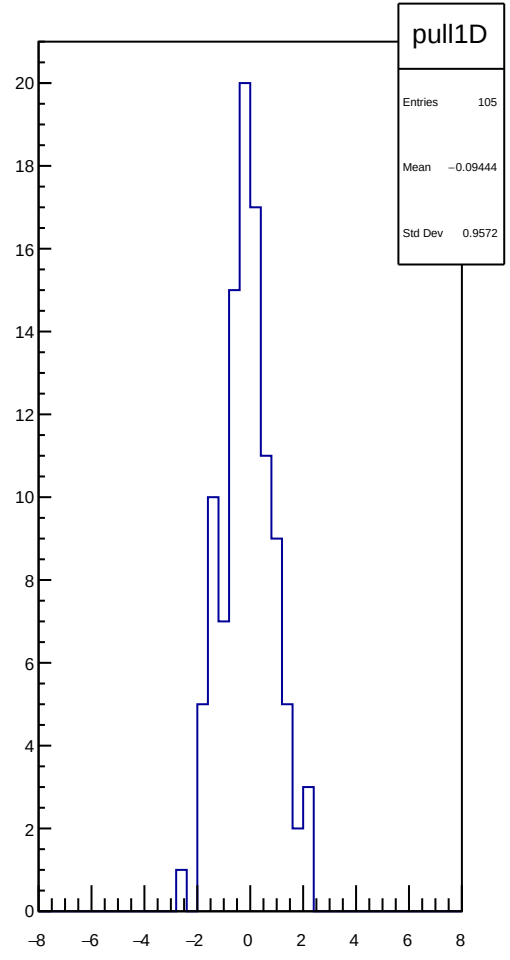

asym_atl1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.932e+05 / 104
p0 0.0006507 ± 5.813e−07
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002

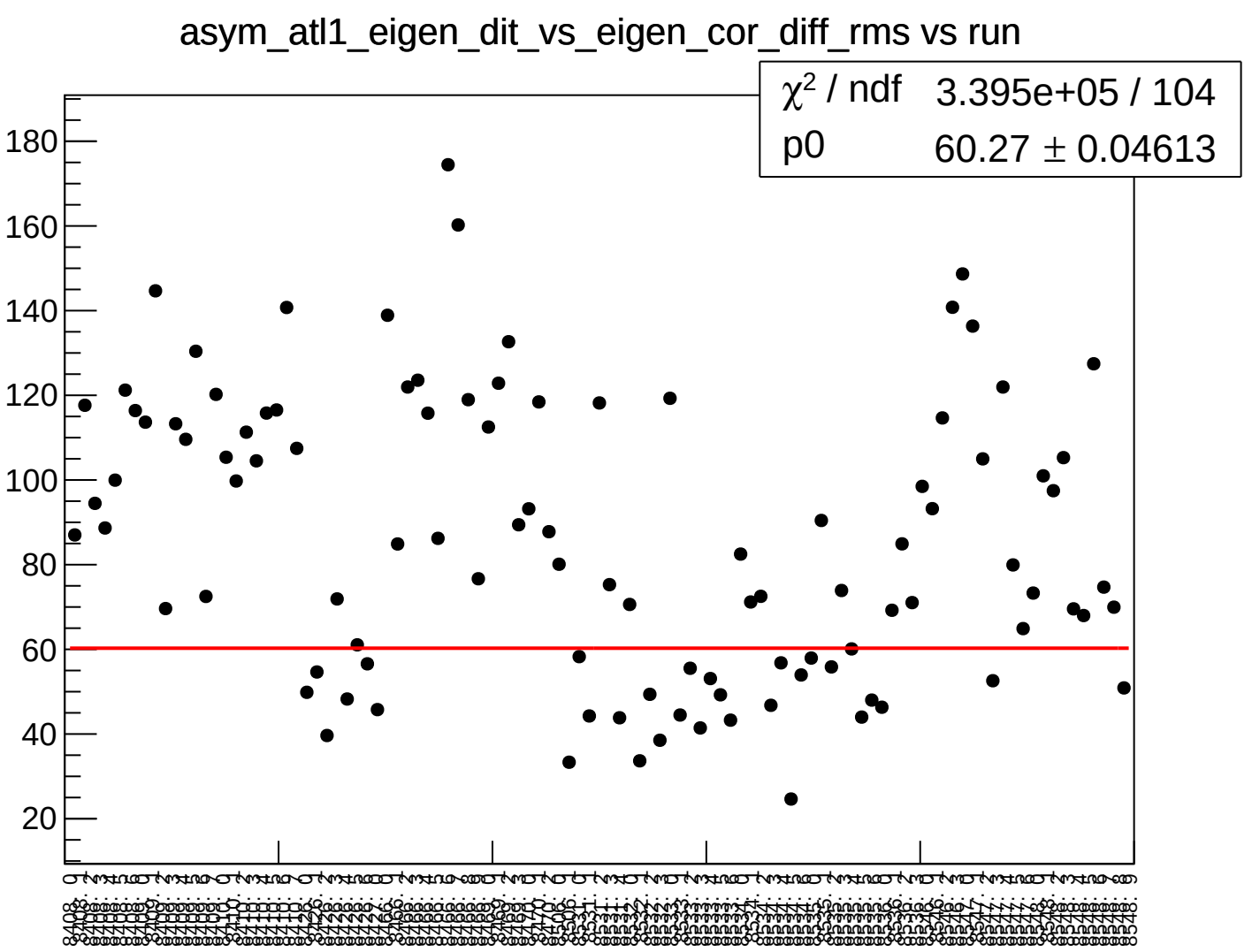

asym_atl1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 97.15 / 104
p0 0.01577 ± 0.06524
pull
Entries 105
Mean 47.58
Std Dev 35.65

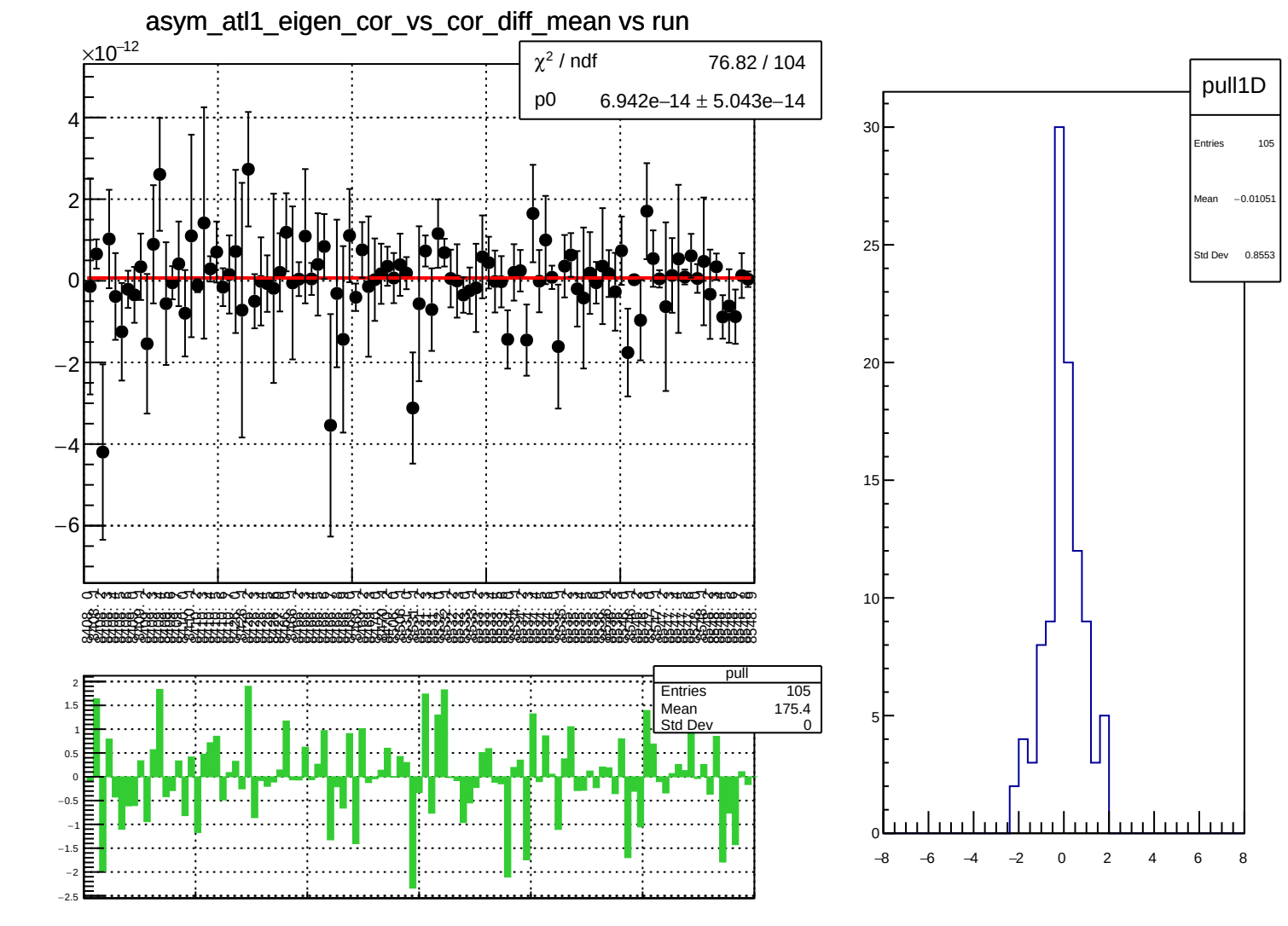

pull1D
Entries 105
Mean −0.09444
Std Dev 0.9572

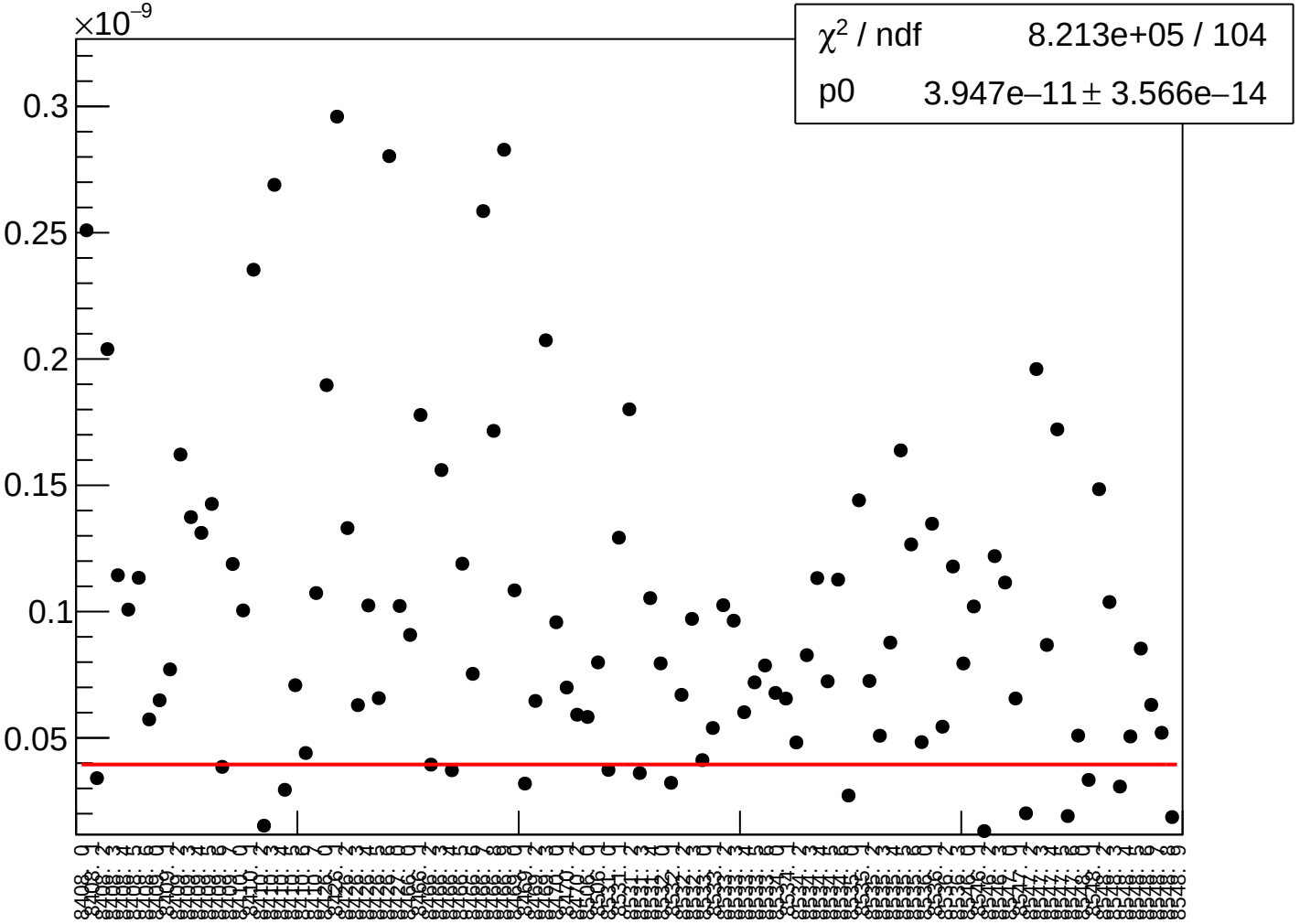

asym_atl1_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.395e+05 / 104
p0 60.27 ± 0.04613
180
160
140
120
100
80
60
40
20

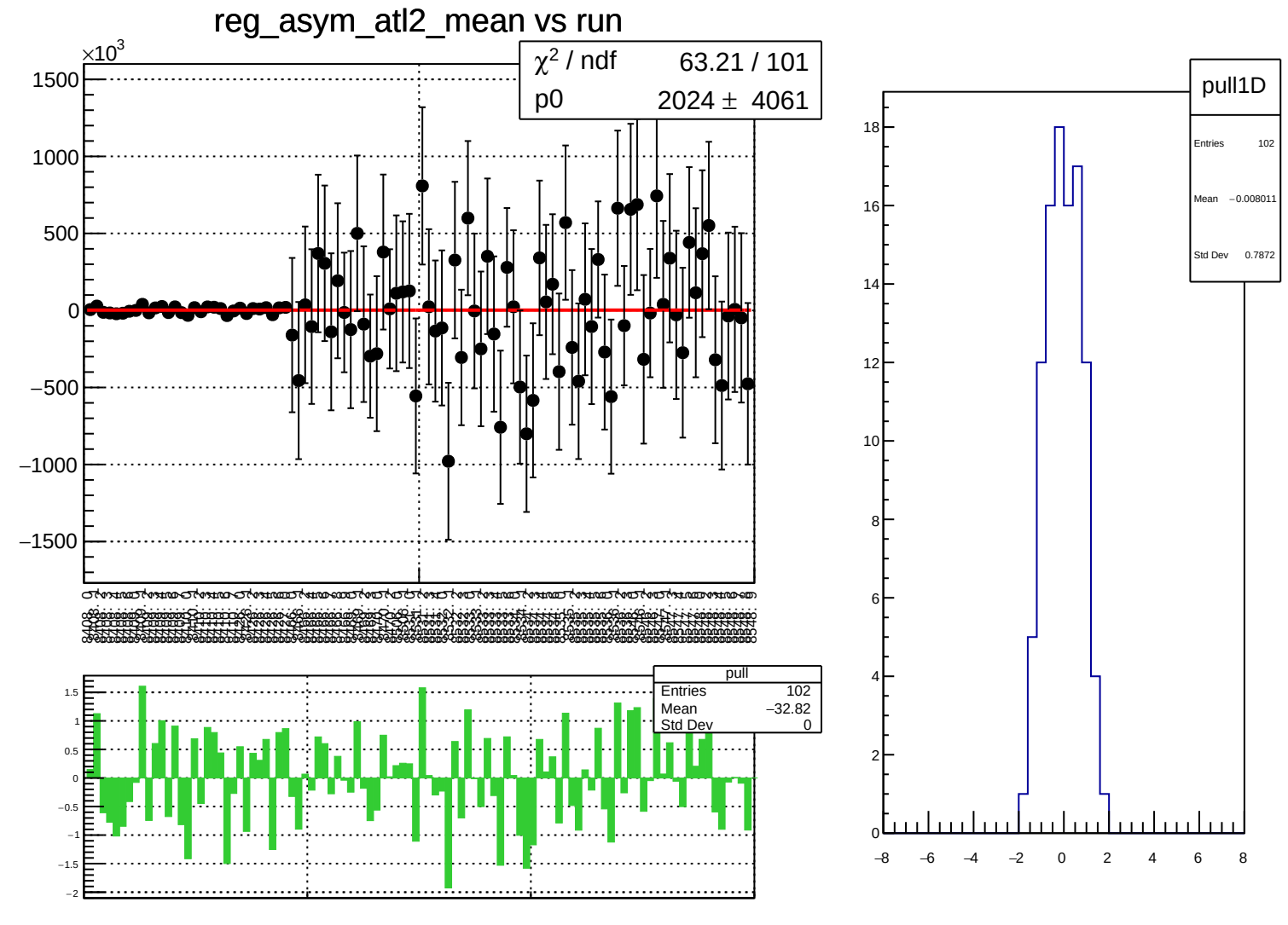

asym_atl1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.15 / 104
p0 0.01577 ± 0.06524
pull
Entries 105
Mean 47.58
Std Dev 35.65

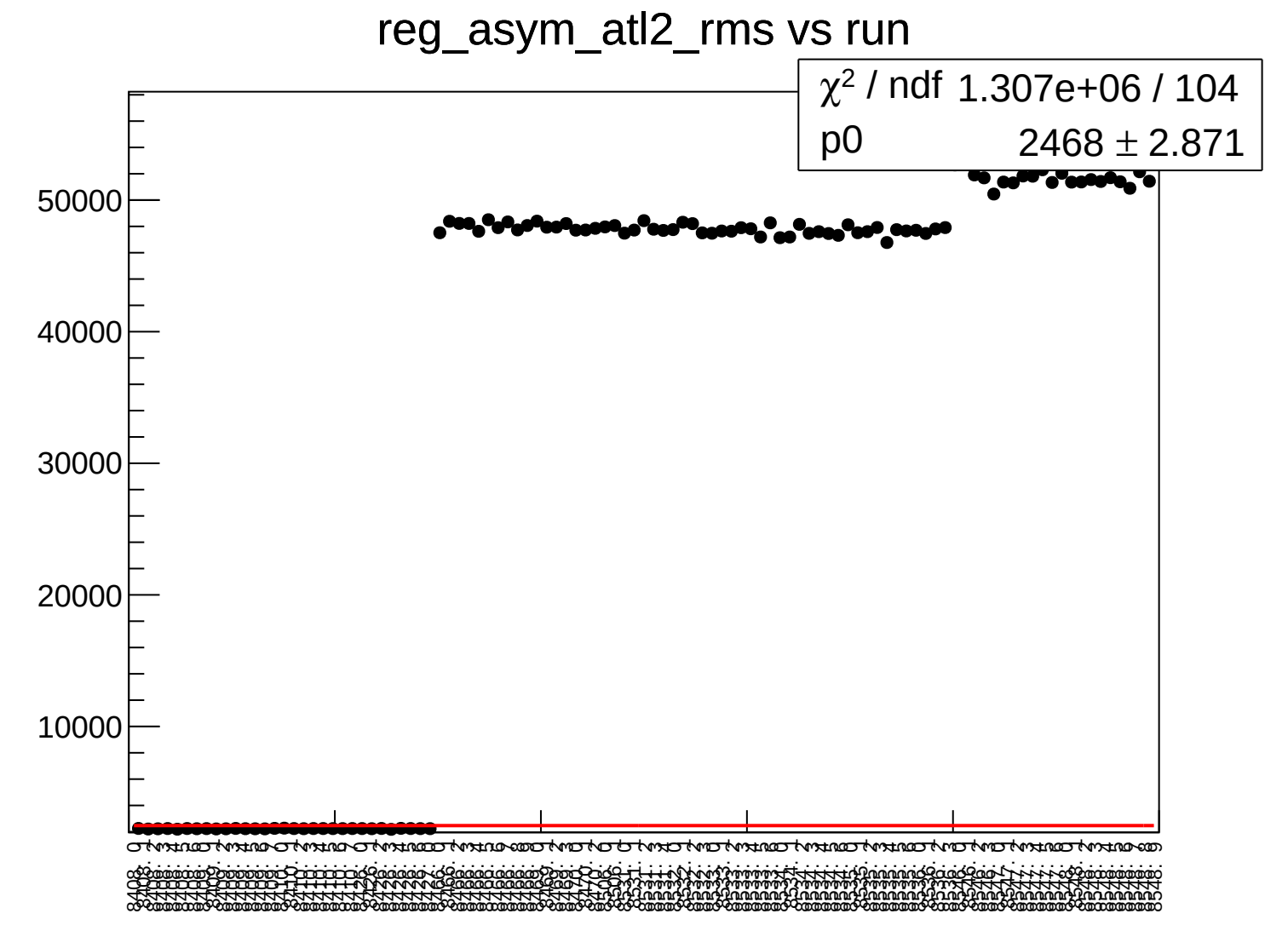

pull1D
Entries 105
Mean −0.09444
Std Dev 0.9572

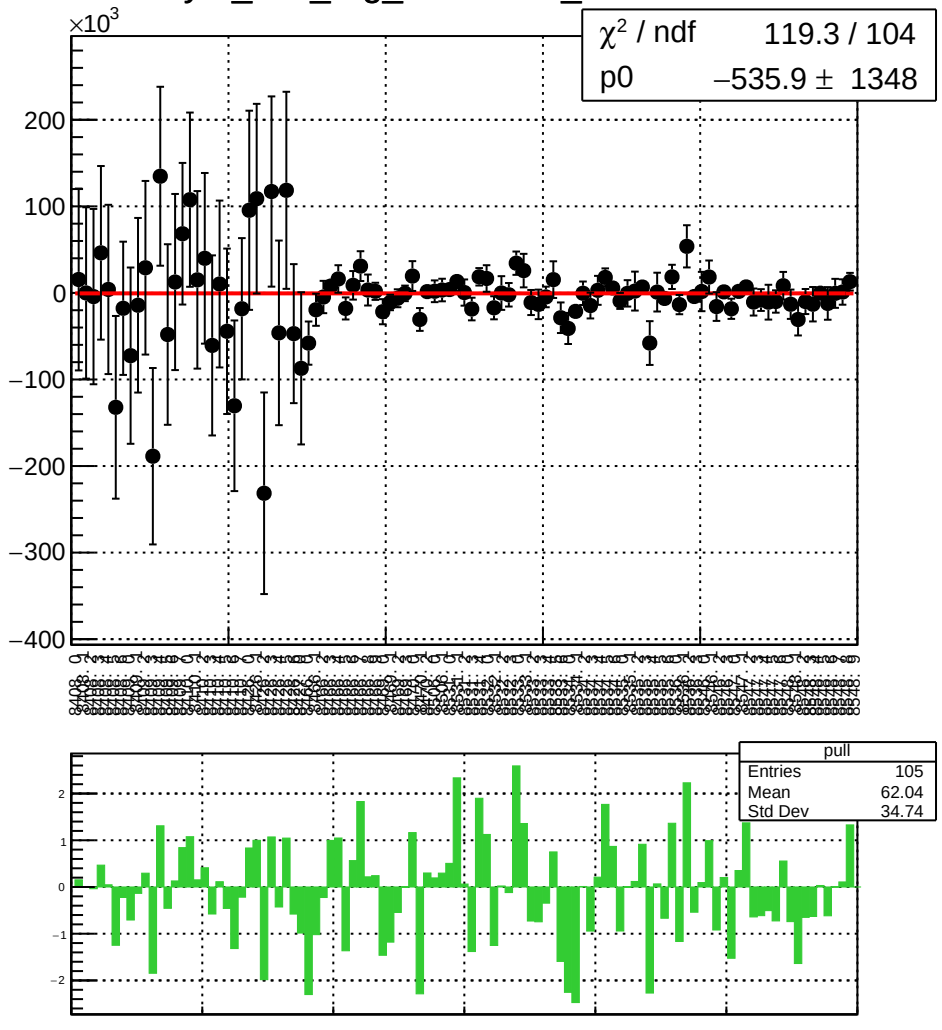

asym_atl1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.395e+05 / 104
p0 60.27 ± 0.04613
180
160
140
120
100
80
60
40
20

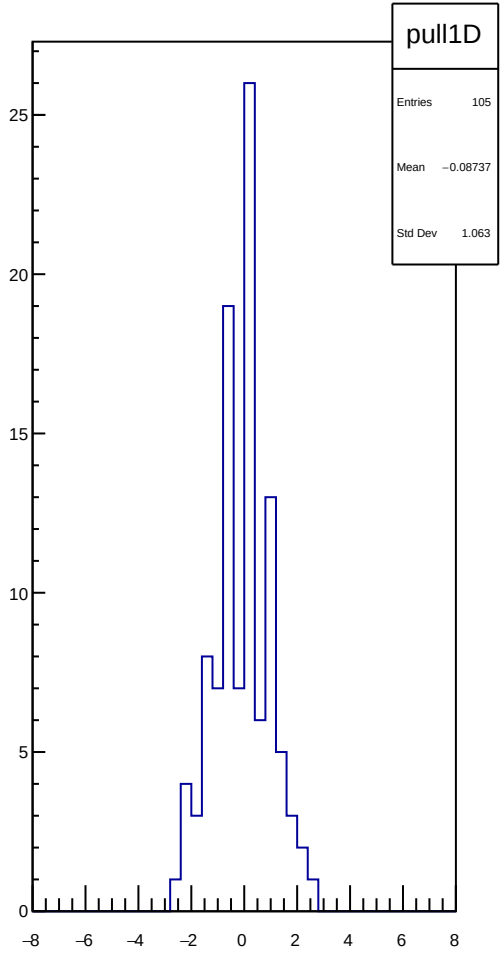

asym_atl1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.82 / 104
p0 6.942e−14 ± 5.043e−14
4
2
0
−2
−4
−6
pull
Entries 105
Mean 175.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 105
Mean −0.01051
Std Dev 0.8553
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

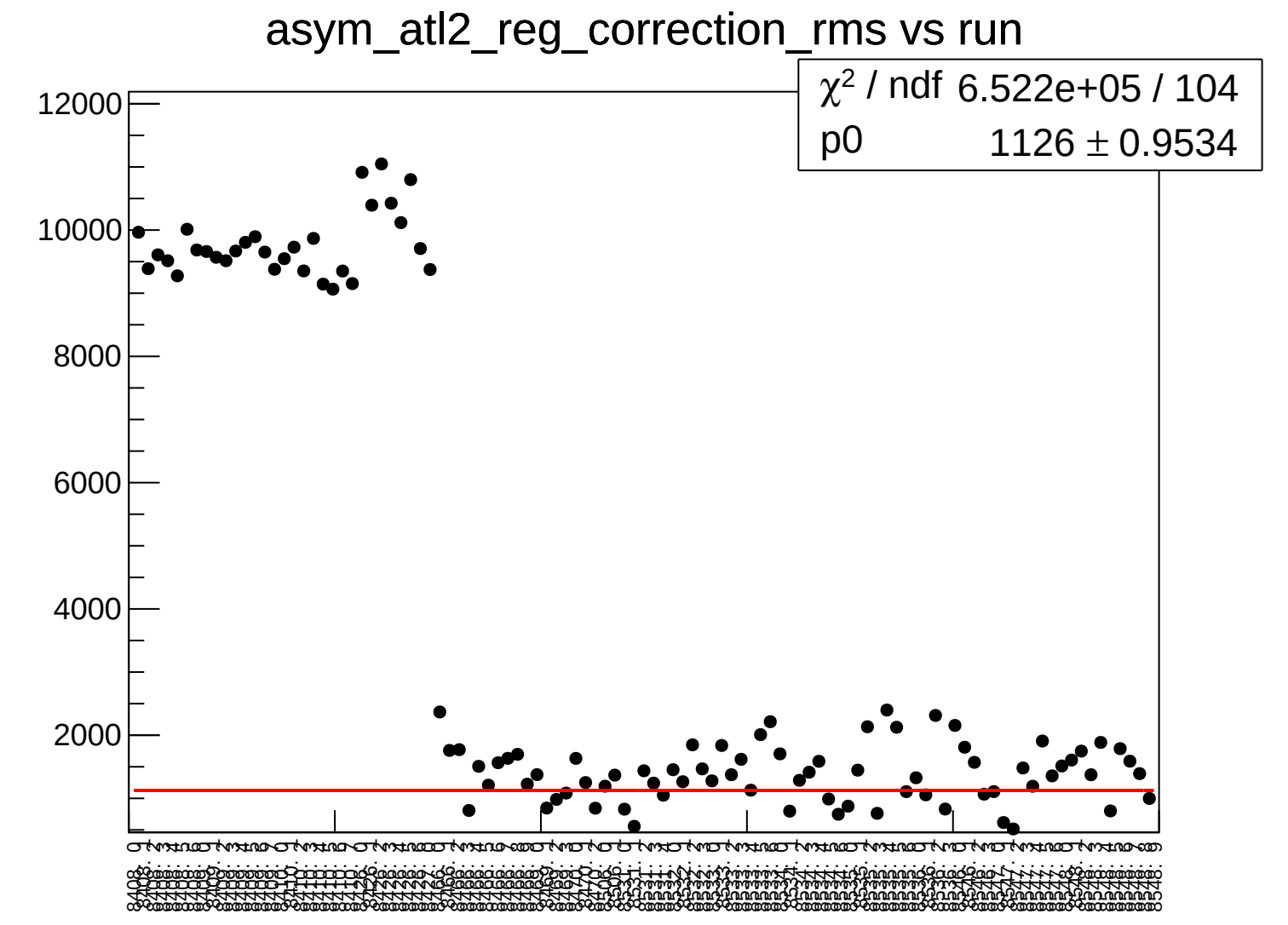

asym_atl1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.213e+05 / 104
p0 3.947e−11 ± 3.566e−14
0.3
0.25
0.2
0.15
0.1
0.05

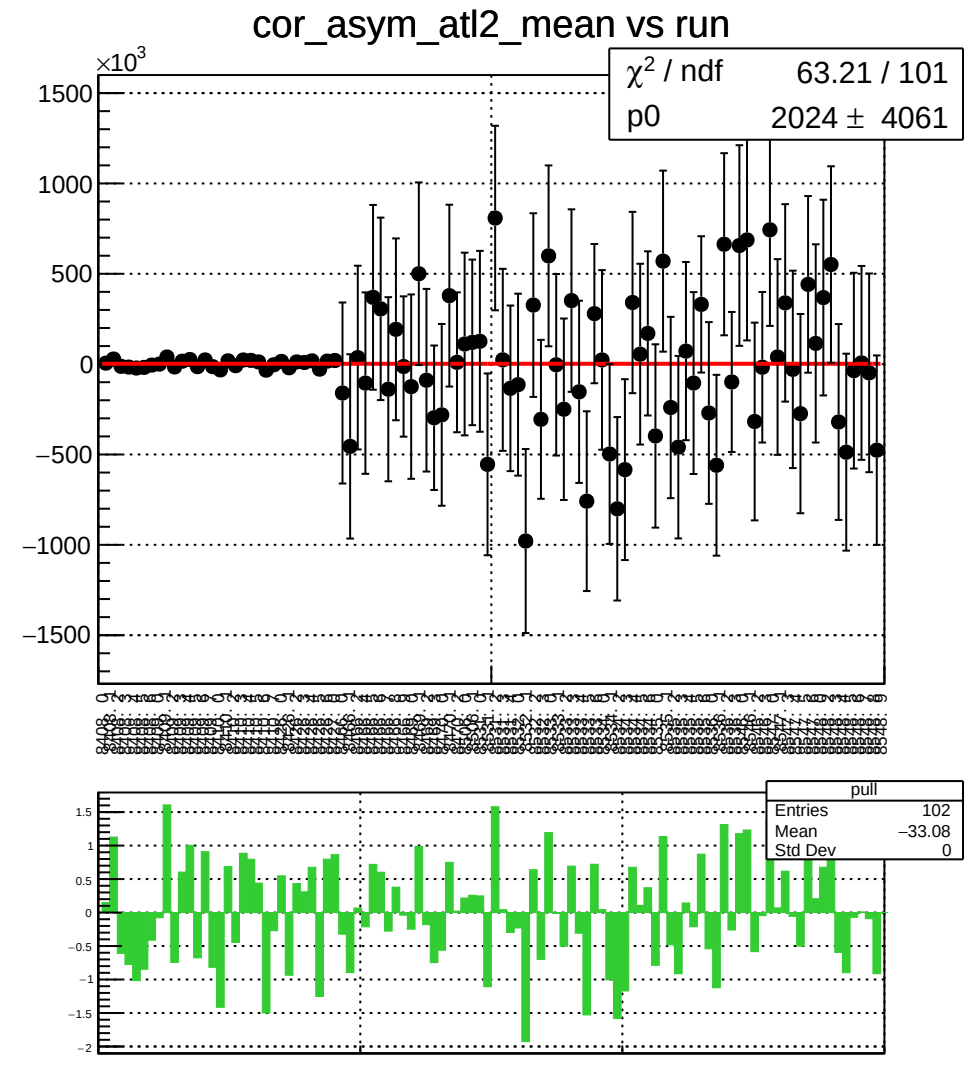

reg_asym_atl2_mean vs run
×10^3
χ^2 / ndf 63.21 / 101
p0 2024 ± 4061
1500
1000
500
0
−500
−1000
−1500
pull
Entries 102
Mean −32.82
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 102
Mean −0.008011
Std Dev 0.7872
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

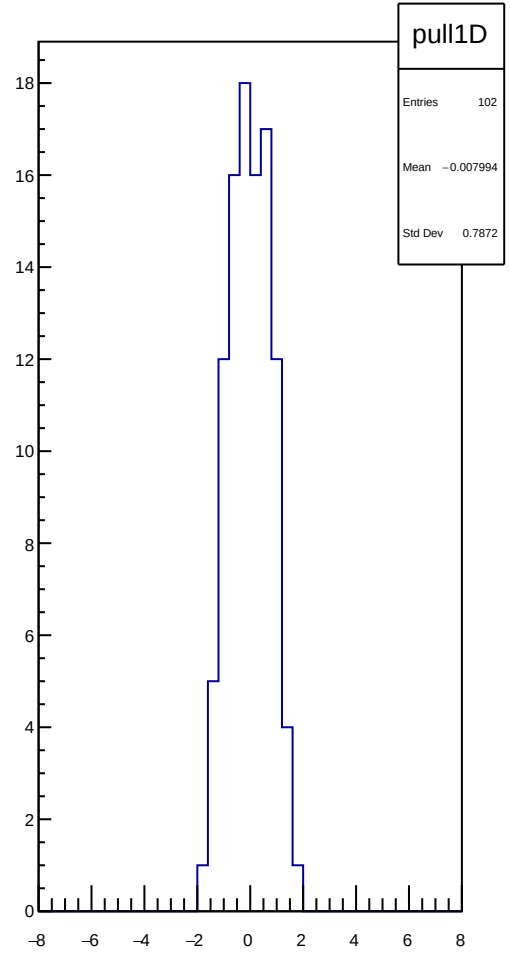

reg_asym_atl2_rms vs run
χ² / ndf 1.307e+06 / 104
p0 2468 ± 2.871
50000
40000
30000
20000
10000

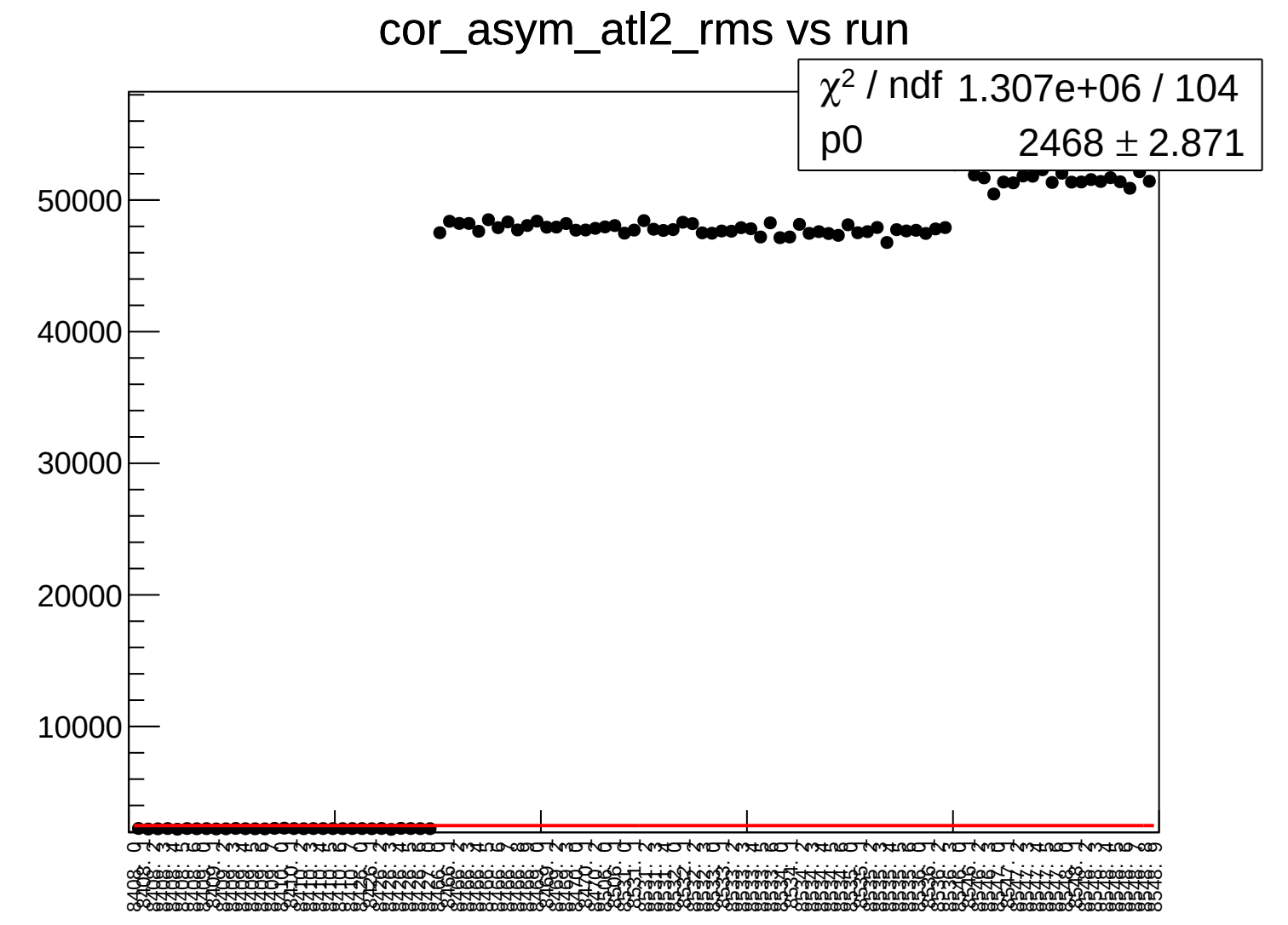

asym_atl2_reg_correction_mean vs run
×10^3
χ² / ndf 119.3 / 104
p0 −535.9 ± 1348
200
100
0
−100
−200
−300
−400
pull
Entries 105
Mean 62.04
Std Dev 34.74
2
1
0
−1
−2

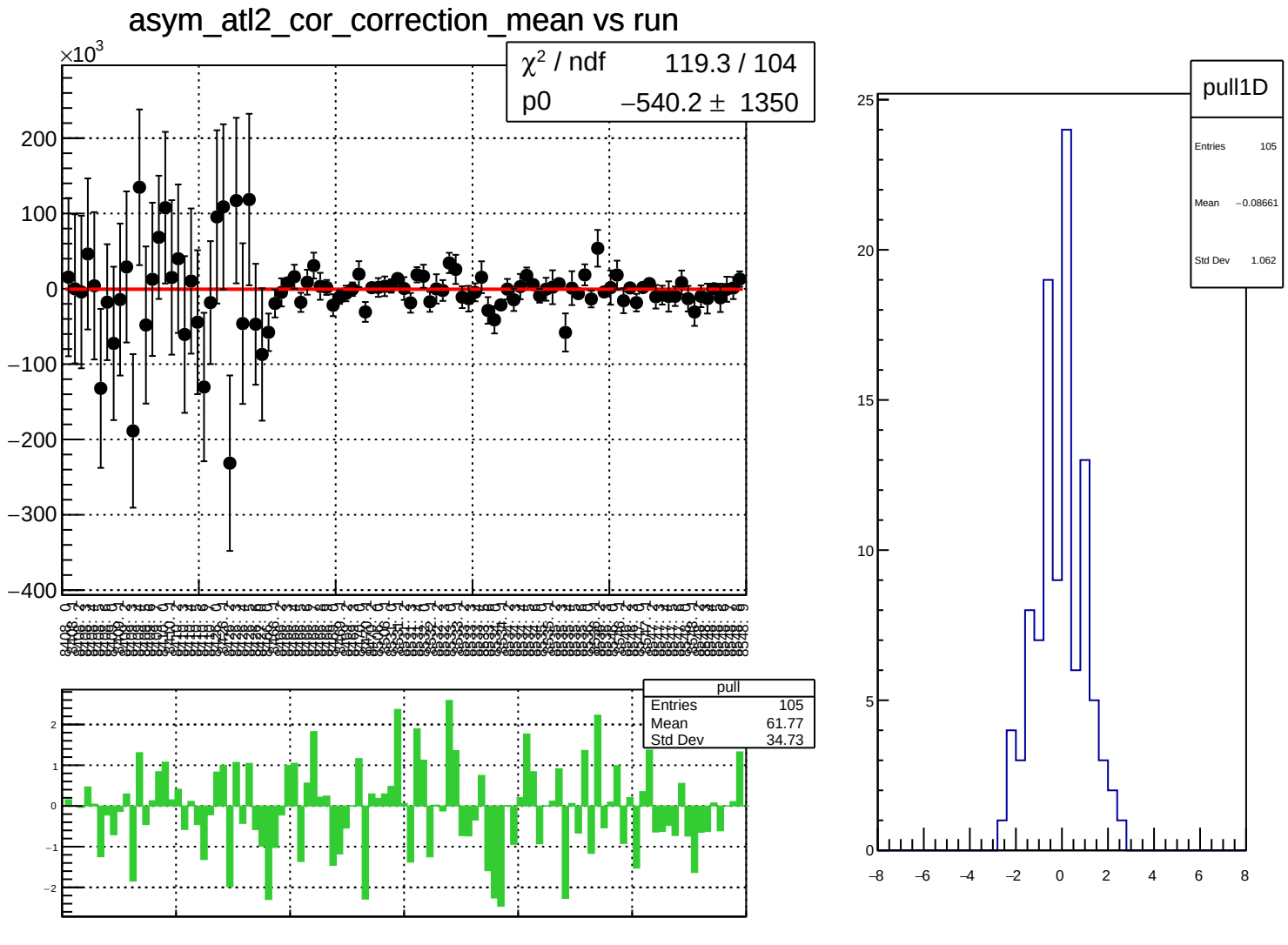

pull1D
Entries 105
Mean −0.08737
Std Dev 1.063
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

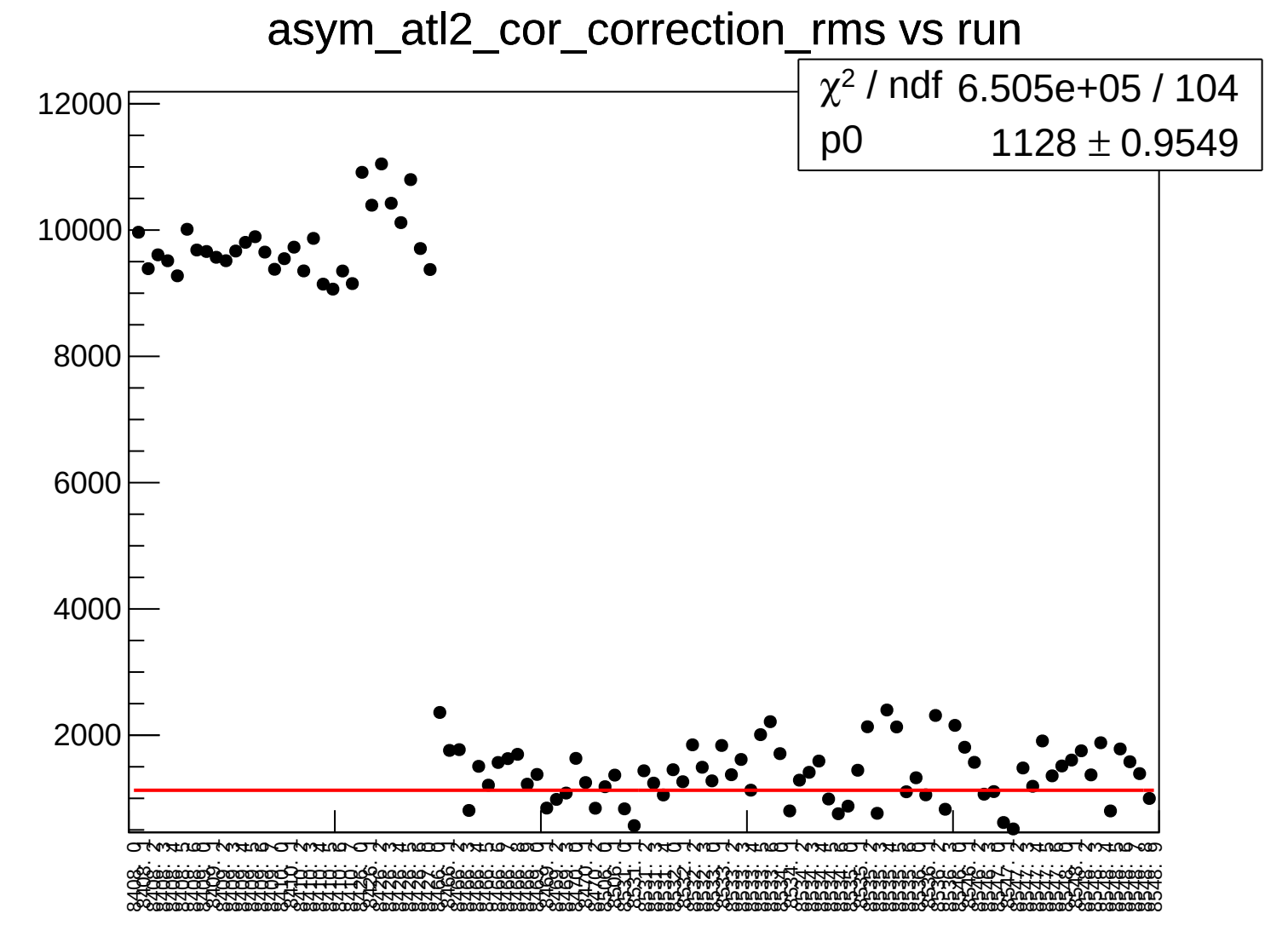

asym_atl2_reg_correction_rms vs run
χ² / ndf 6.522e+05 / 104
p0 1126 ± 0.9534
12000
10000
8000
6000
4000
2000

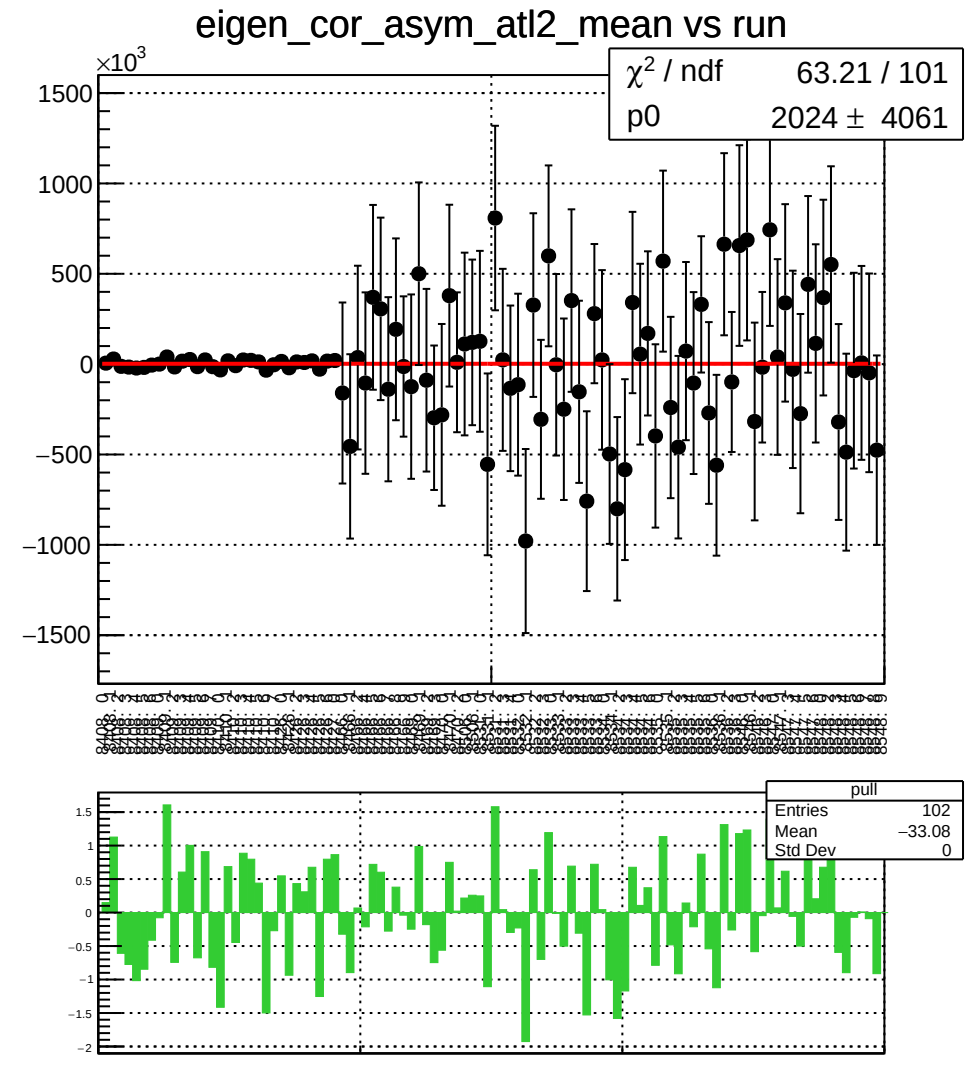

cor_asym_atl2_mean vs run
×10^3
χ^2 / ndf 63.21 / 101
p0 2024 ± 4061
1500
1000
500
0
−500
−1000
−1500
pull
Entries 102
Mean −33.08
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

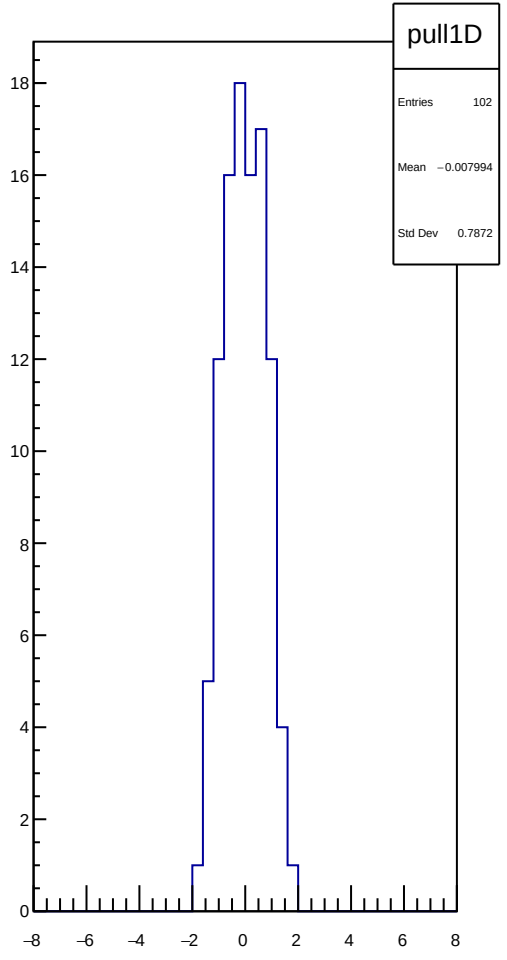

pull1D
Entries 102
Mean −0.007994
Std Dev 0.7872
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

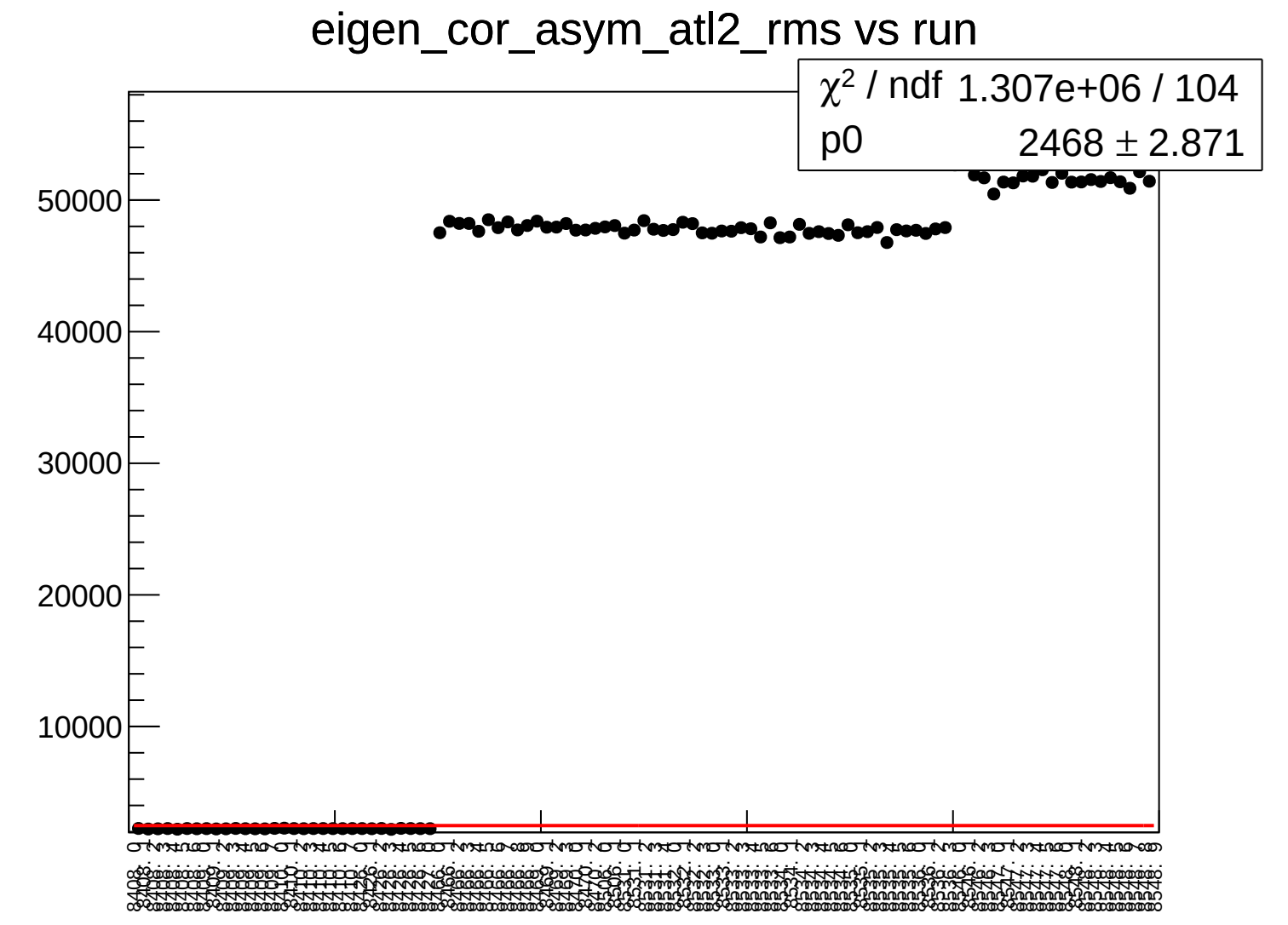

cor_asym_atl2_rms vs run
χ² / ndf 1.307e+06 / 104
p0 2468 ± 2.871
50000
40000
30000
20000
10000

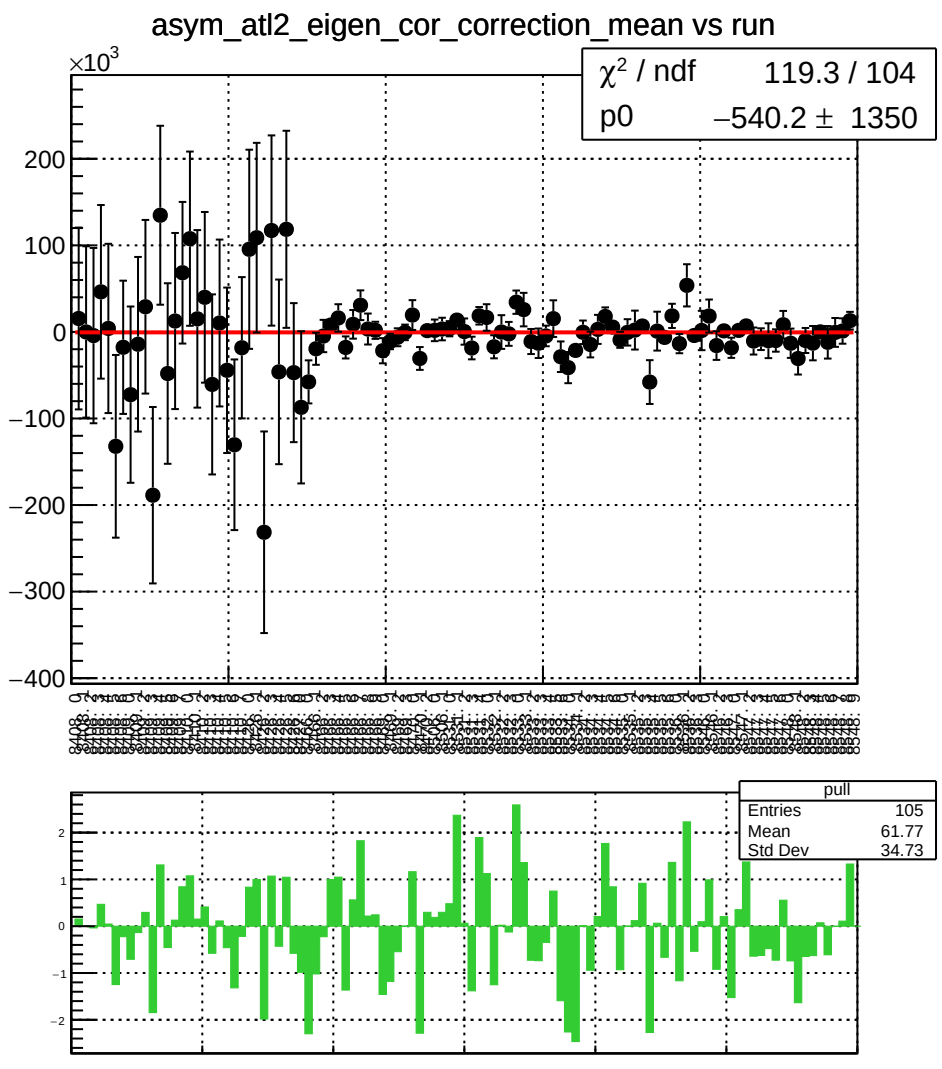

asym_atl2_cor_correction_mean vs run
×10^3
χ² / ndf 119.3 / 104
p0 −540.2 ± 1350
200
100
0
−100
−200
−300
−400
pull
Entries 105
Mean 61.77
Std Dev 34.73
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.08661
Std Dev 1.062
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

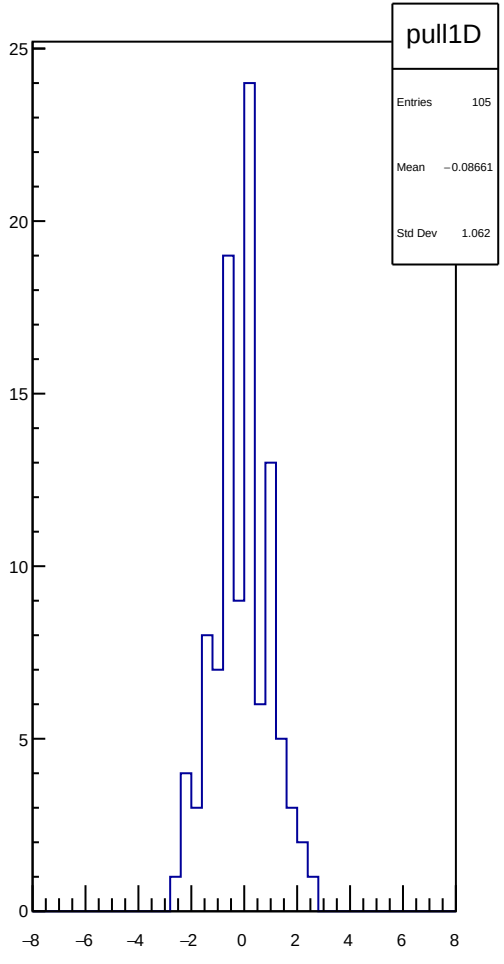

asym_atl2_cor_correction_rms vs run
χ² / ndf 6.505e+05 / 104
p0 1128 ± 0.9549
12000
10000
8000
6000
4000
2000

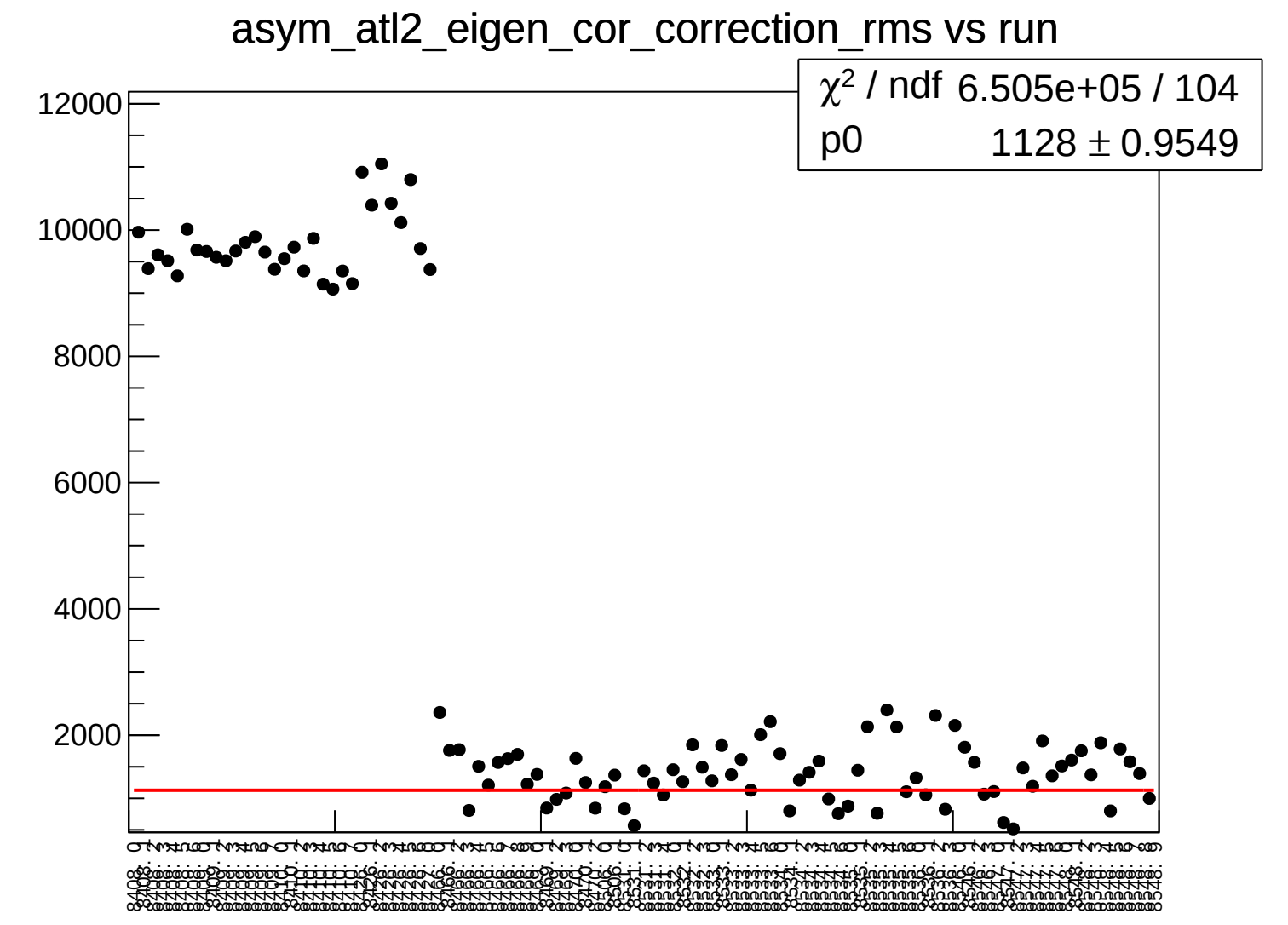

eigen_cor_asym_atl2_mean vs run
×10^3
χ^2 / ndf 63.21 / 101
p0 2024 ± 4061
1500
1000
500
0
−500
−1000
−1500
pull
Entries 102
Mean −33.08
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

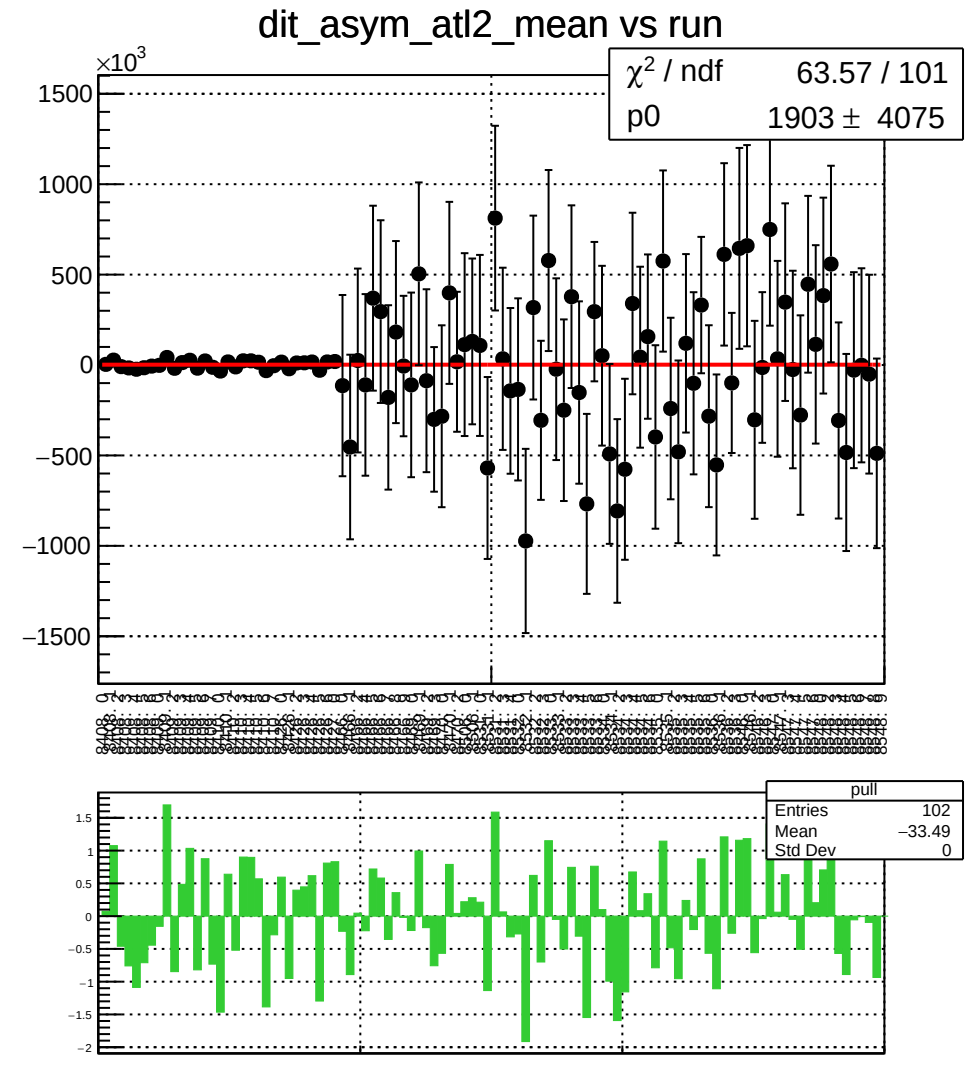

pull1D
Entries 102
Mean −0.007994
Std Dev 0.7872
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

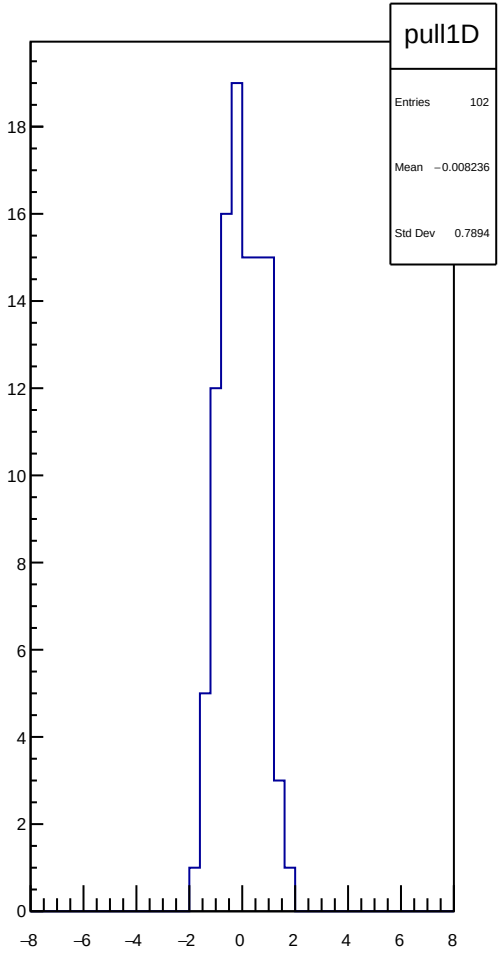

eigen_cor_asym_atl2_rms vs run
χ^2 / ndf 1.307e+06 / 104
p0 2468 ± 2.871
50000
40000
30000
20000
10000

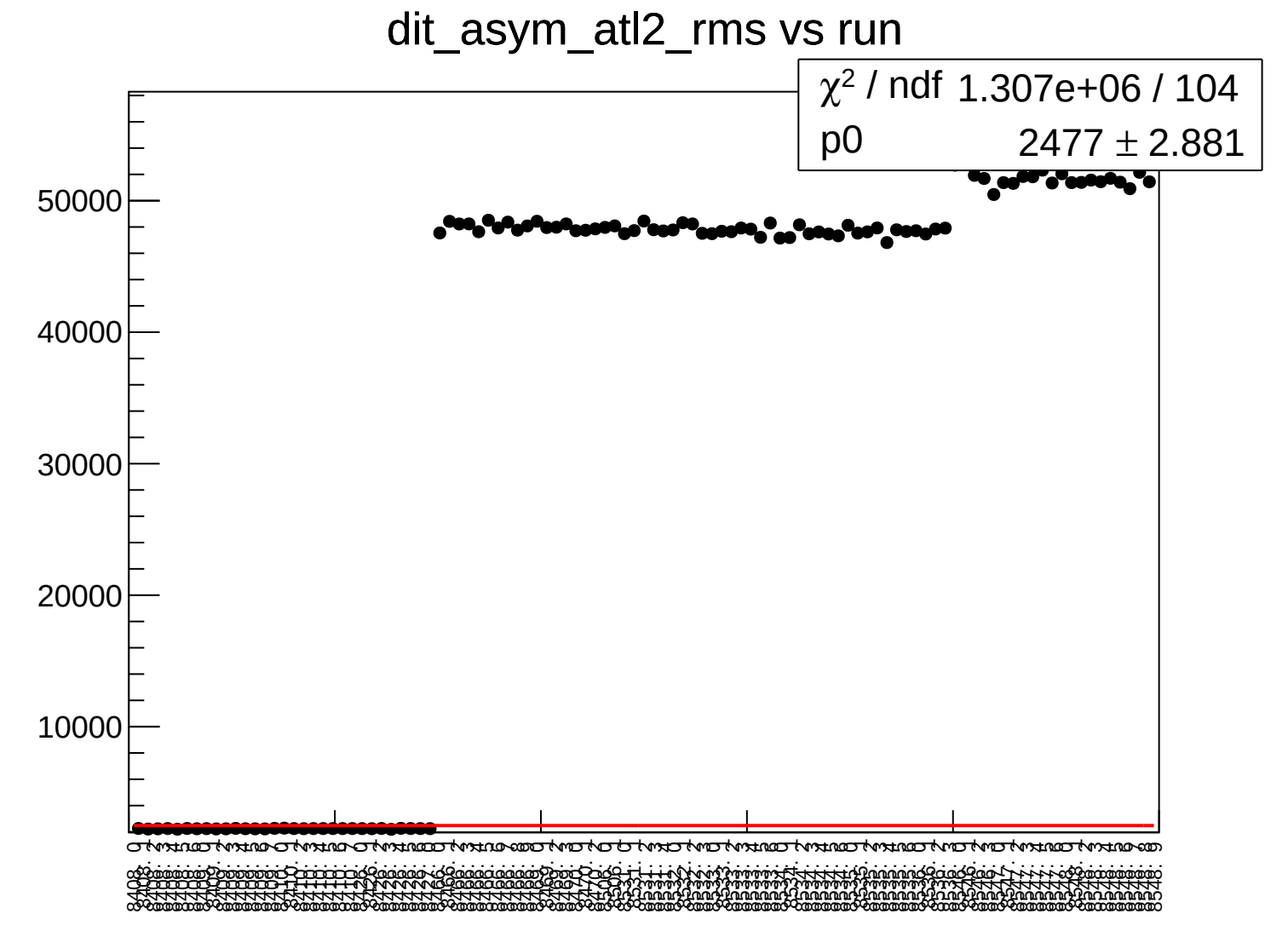

asym_atl2_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 119.3 / 104
p0 −540.2 ± 1350
200
100
0
−100
−200
−300
−400
pull
Entries 105
Mean 61.77
Std Dev 34.73
2
1
0
−1
−2

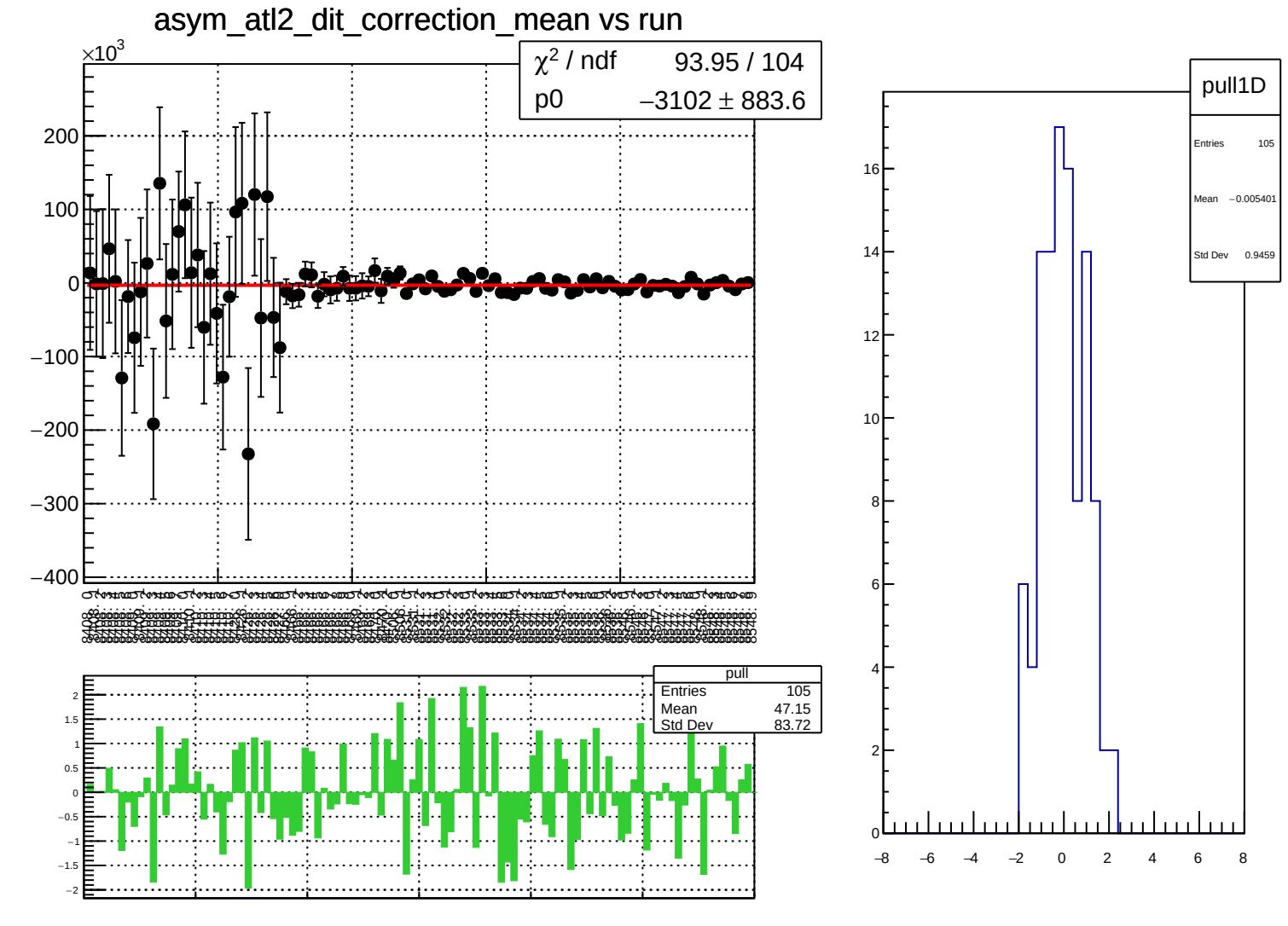

pull1D
Entries 105
Mean −0.08661
Std Dev 1.062
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

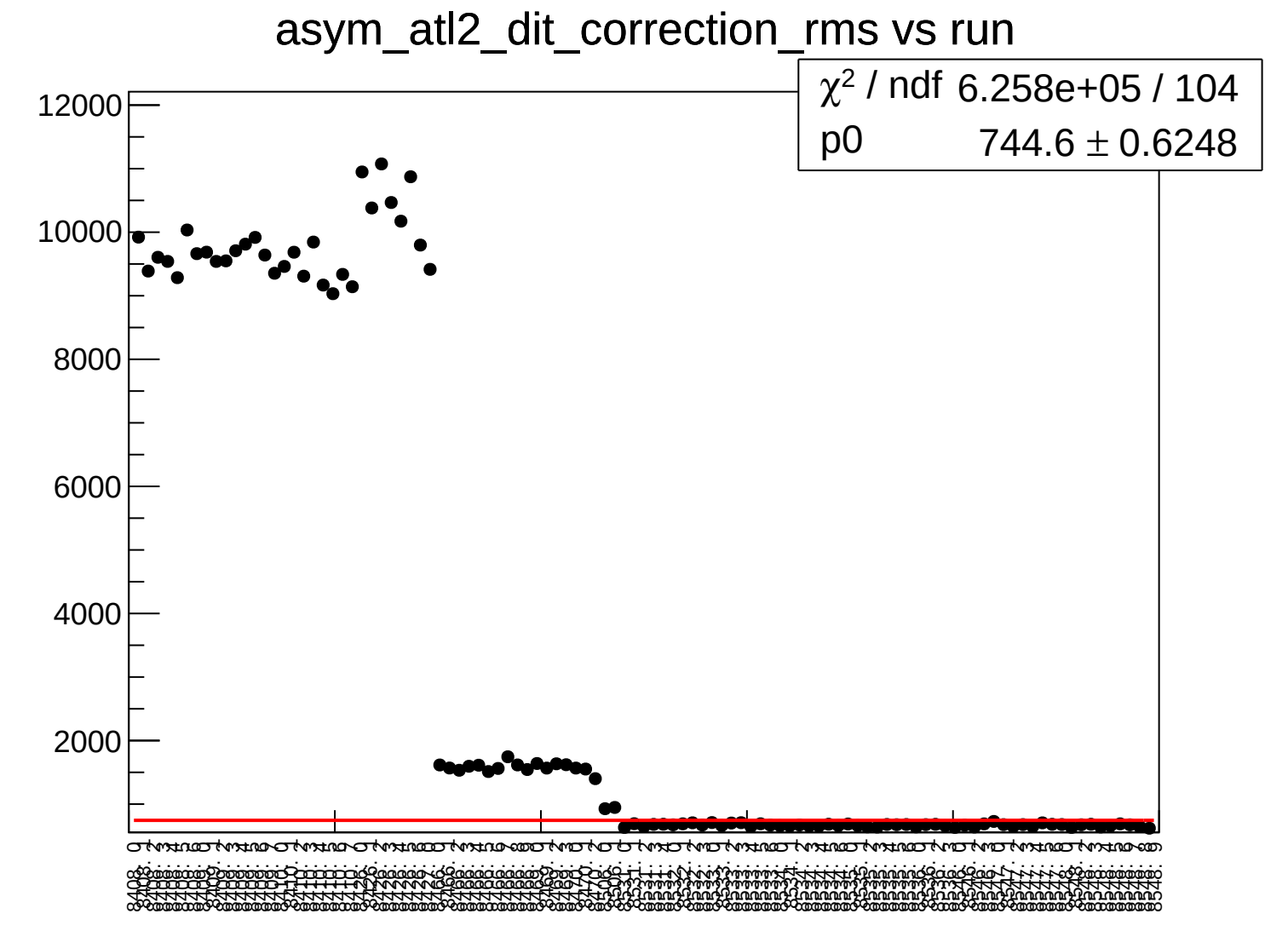

asym_atl2_eigen_cor_correction_rms vs run
χ² / ndf 6.505e+05 / 104
p0 1128 ± 0.9549
12000
10000
8000
6000
4000
2000

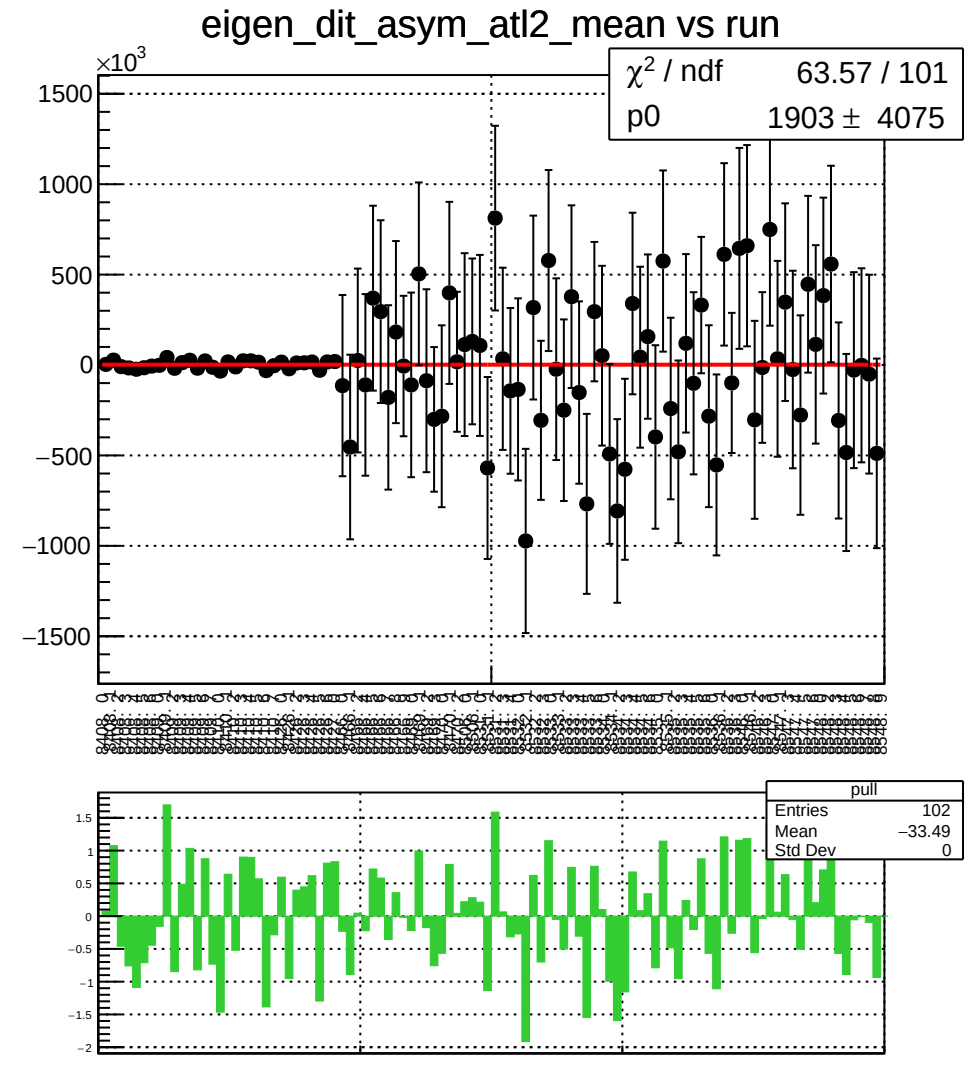

dit_asym_atl2_mean vs run
×10^3
χ^2 / ndf 63.57 / 101
p0 1903 ± 4075
1500
1000
500
0
−500
−1000
−1500
pull
Entries 102
Mean −33.49
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

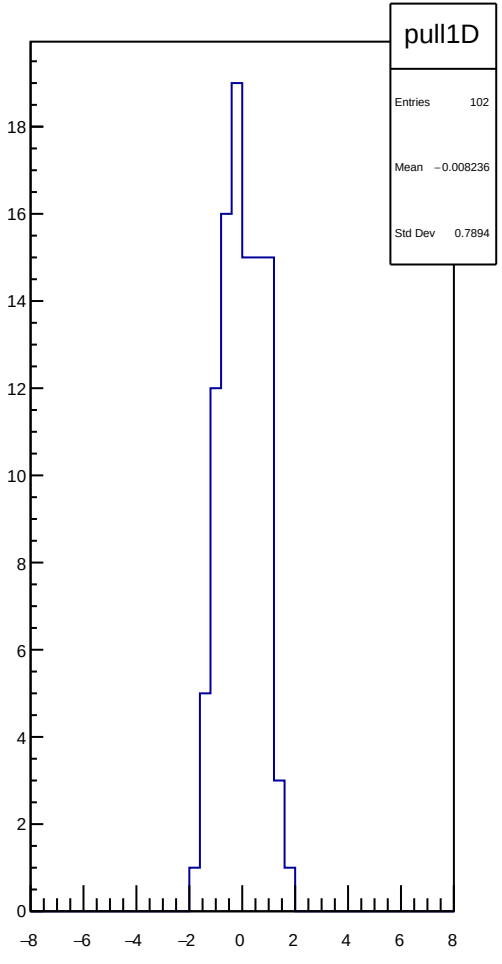

pull1D
Entries 102
Mean −0.008236
Std Dev 0.7894
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

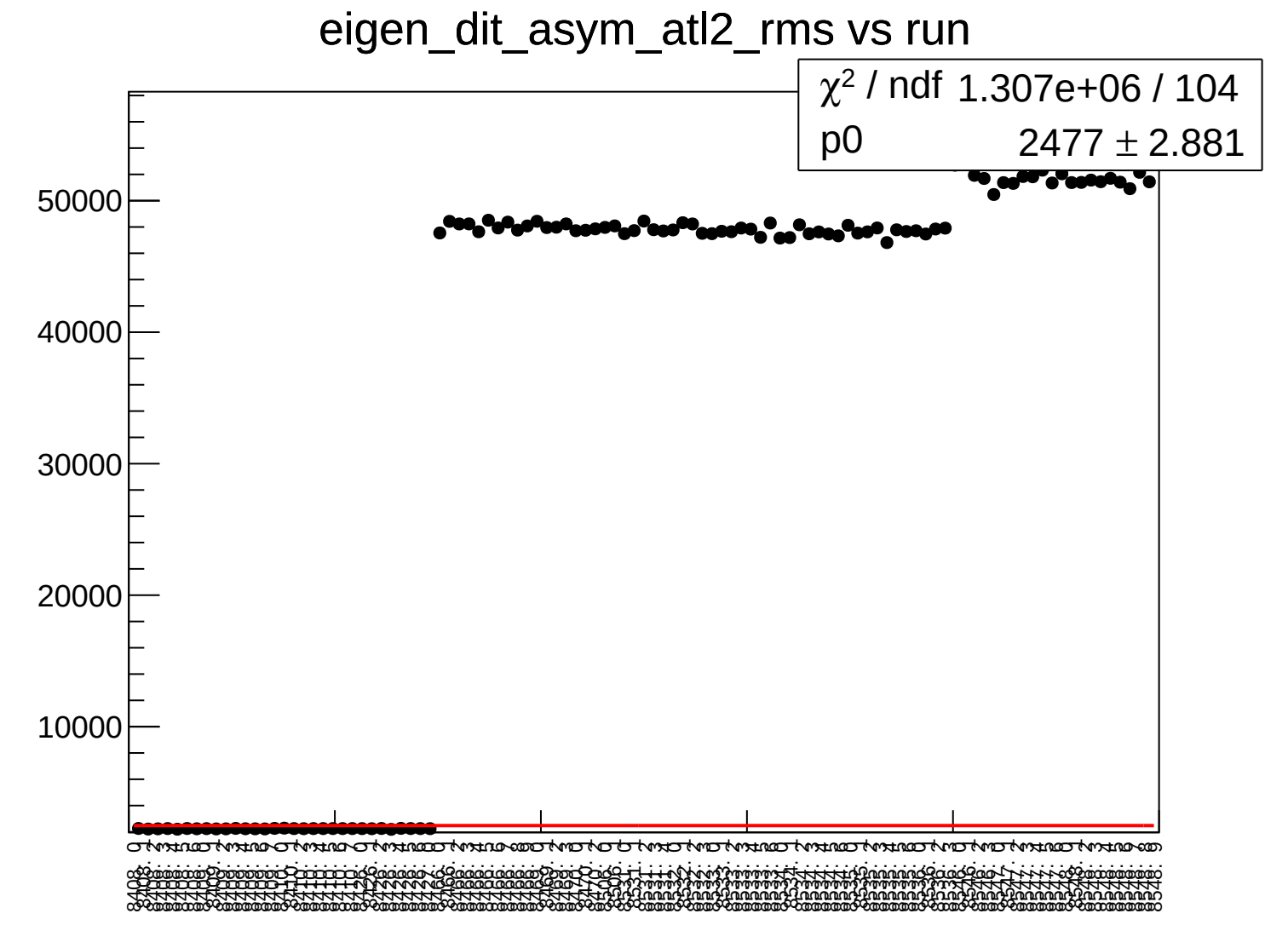

dit_asym_atl2_rms vs run
χ² / ndf 1.307e+06 / 104
p0 2477 ± 2.881
50000
40000
30000
20000
10000

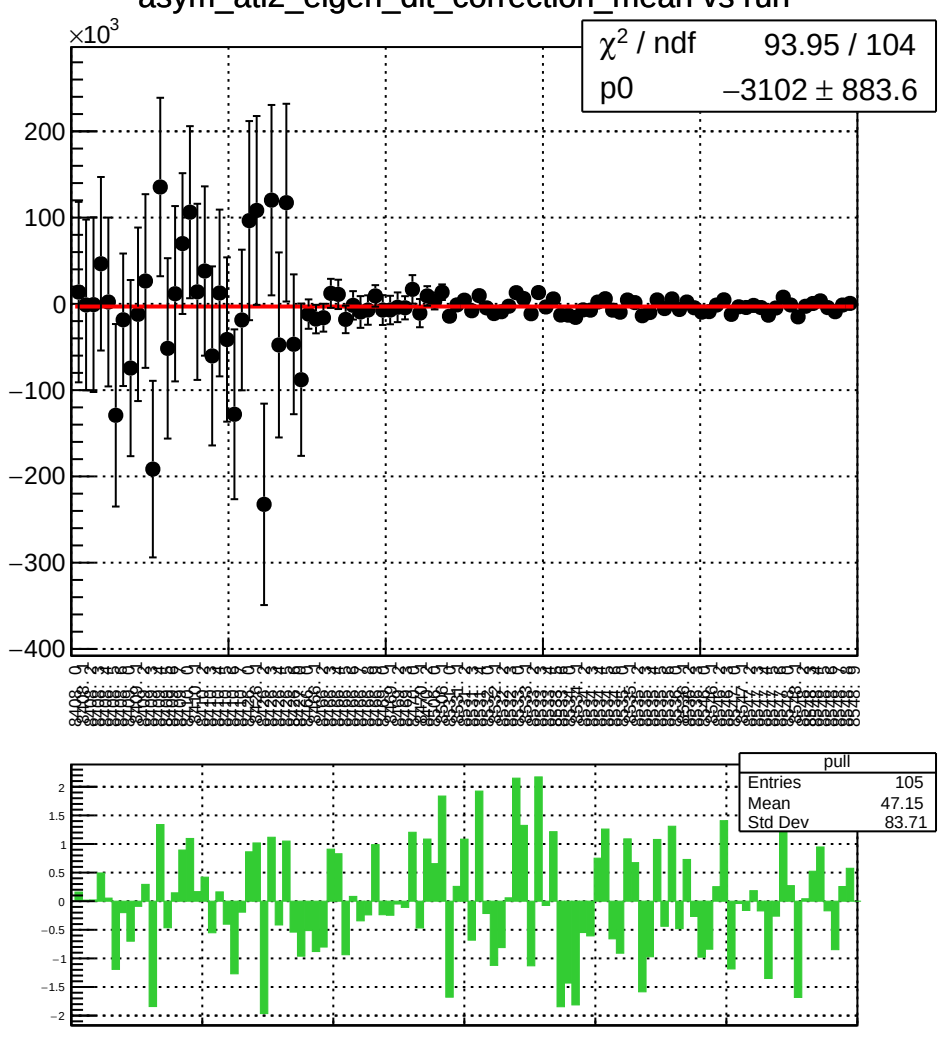

asym_atl2_dit_correction_mean vs run
×10^3
χ^2 / ndf 93.95 / 104
p0 −3102 ± 883.6
200
100
0
−100
−200
−300
−400
pull
Entries 105
Mean 47.15
Std Dev 83.72
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 105
Mean −0.005401
Std Dev 0.9459
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

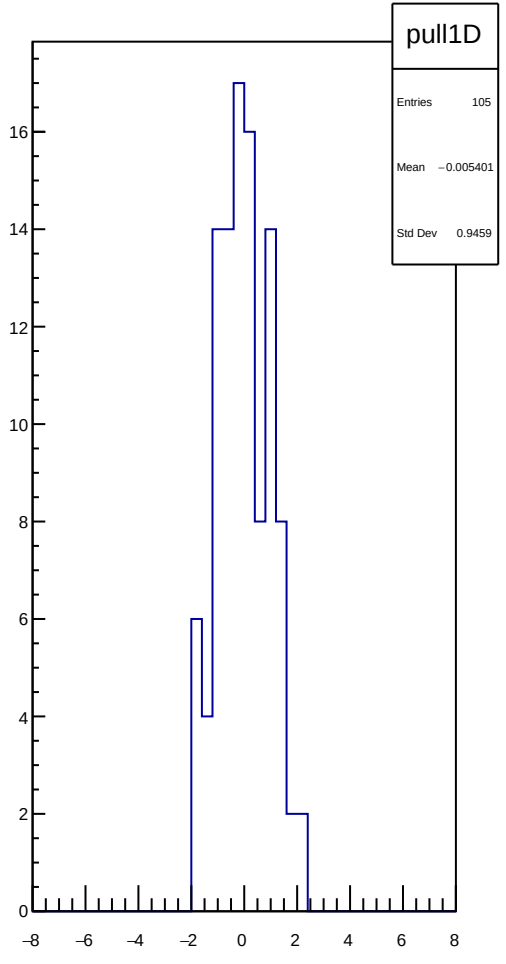

asym_atl2_dit_correction_rms vs run
χ² / ndf 6.258e+05 / 104
p0 744.6 ± 0.6248
12000
10000
8000
6000
4000
2000

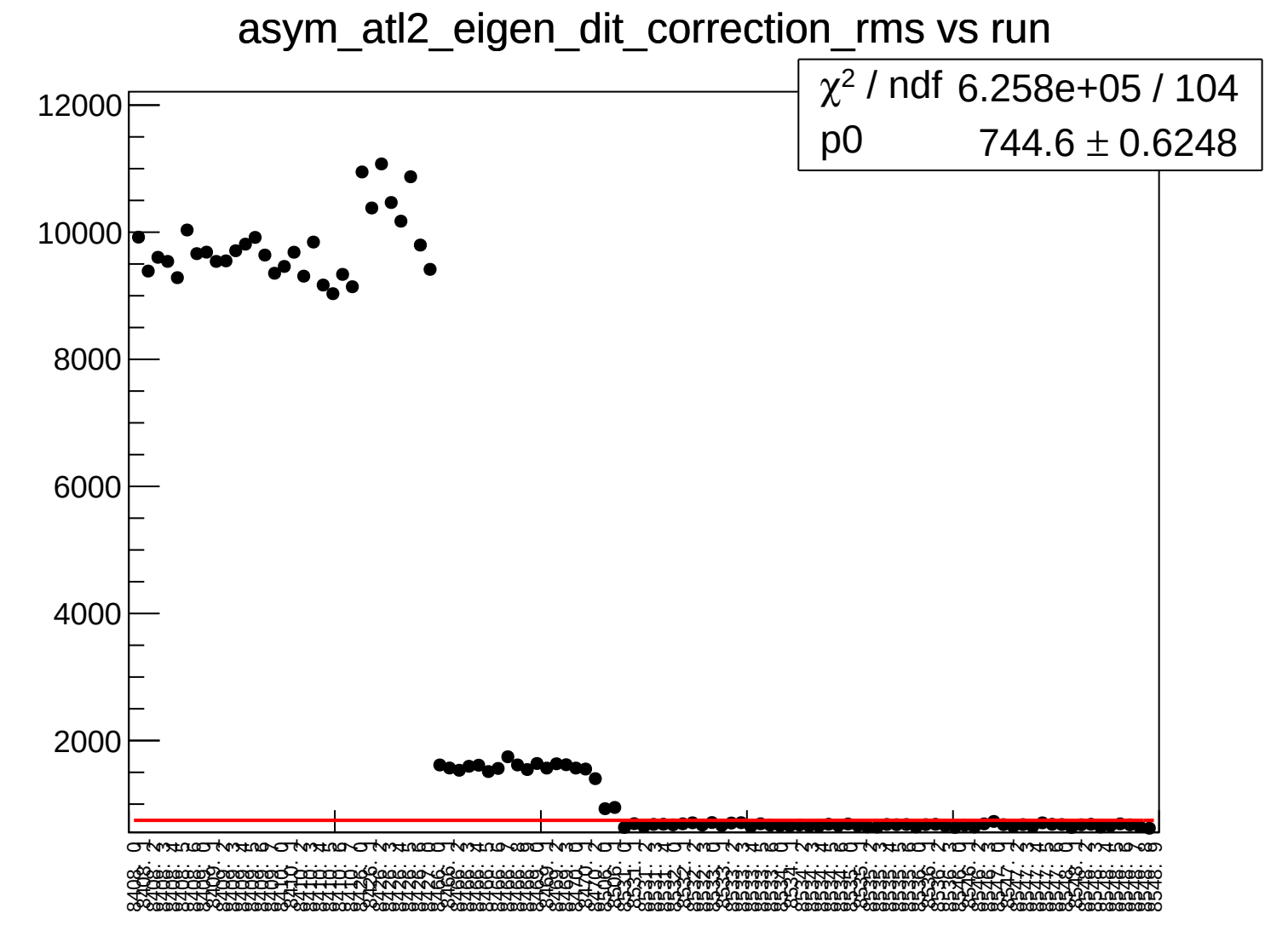

eigen_dit_asym_atl2_mean vs run
×10^3
χ^2 / ndf 63.57 / 101
p0 1903 ± 4075
pull
Entries 102
Mean −33.49
Std Dev 0

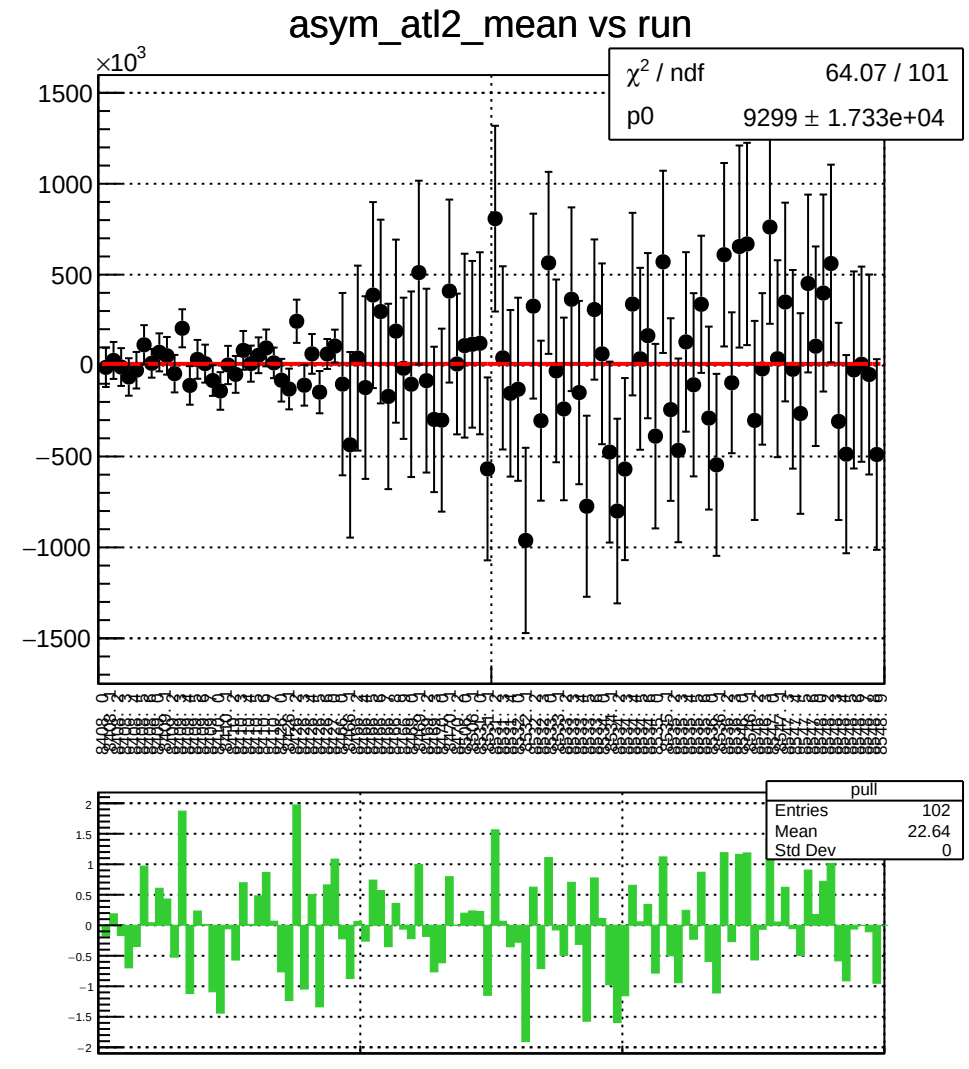

pull1D
Entries 102
Mean −0.008236
Std Dev 0.7894

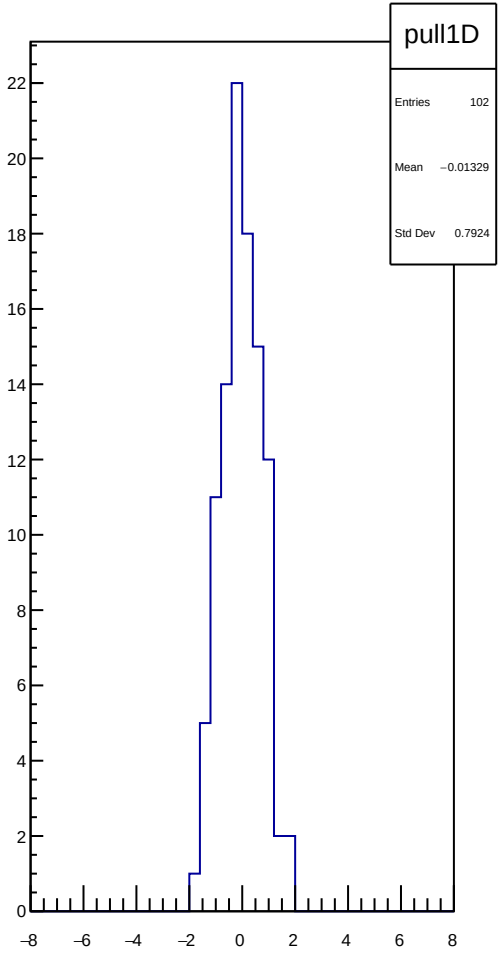

eigen_dit_asym_atl2_rms vs run
χ² / ndf 1.307e+06 / 104
p0 2477 ± 2.881
50000
40000
30000
20000
10000

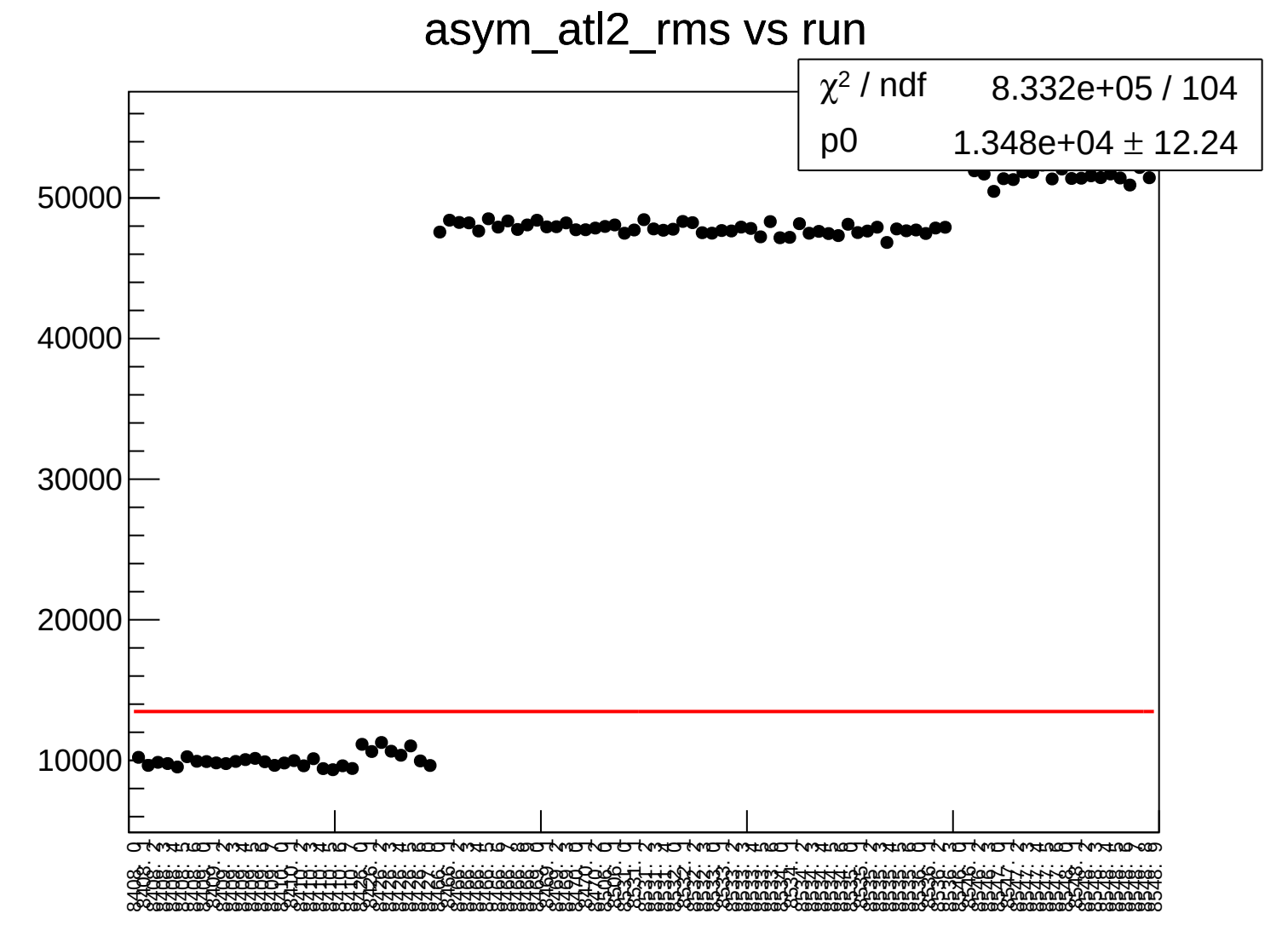

asym_atl2_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 93.95 / 104
p0 −3102 ± 883.6
200
100
0
−100
−200
−300
−400
pull
Entries 105
Mean 47.15
Std Dev 83.71
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

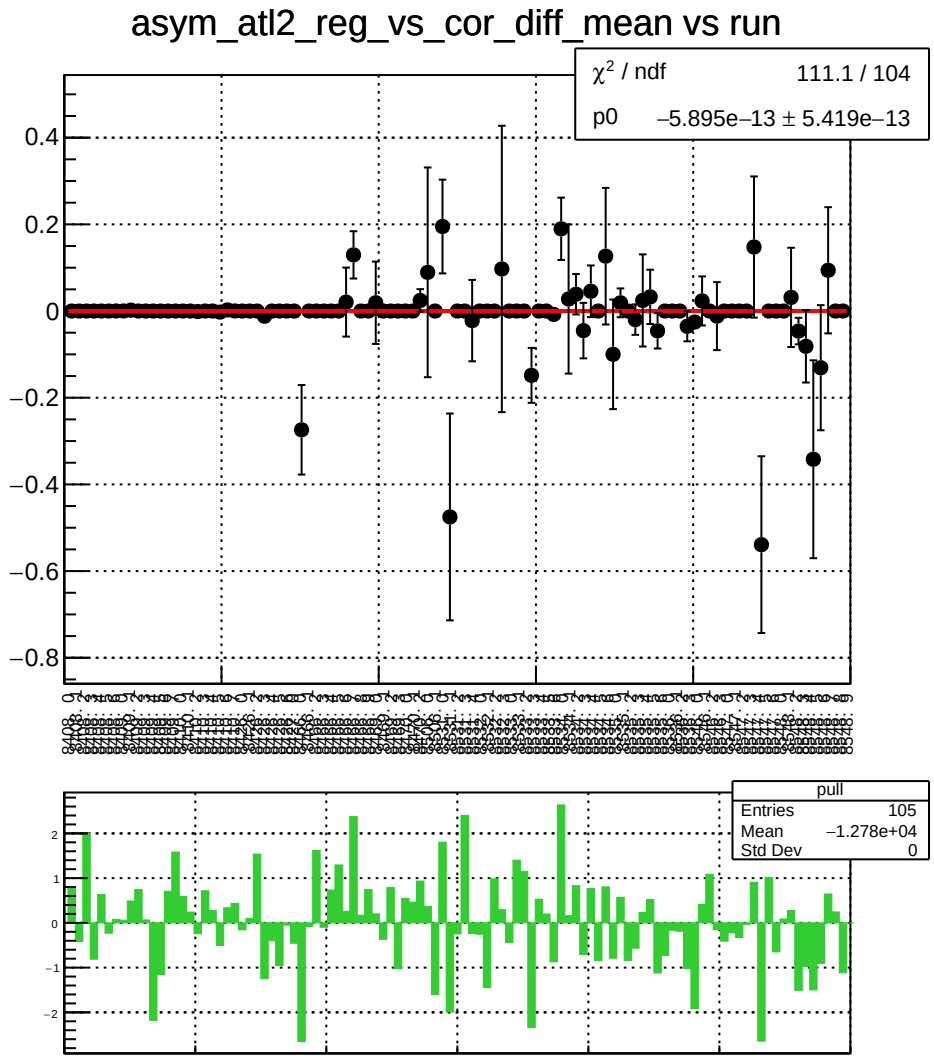

pull1D
Entries 105
Mean −0.005401
Std Dev 0.9459
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

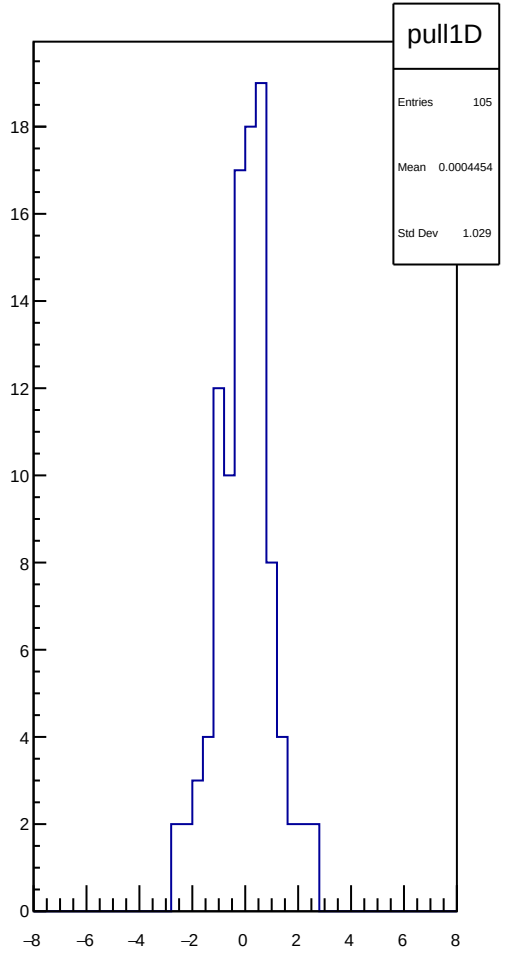

asym_atl2_eigen_dit_correction_rms vs run
χ² / ndf 6.258e+05 / 104
p0 744.6 ± 0.6248
12000
10000
8000
6000
4000
2000

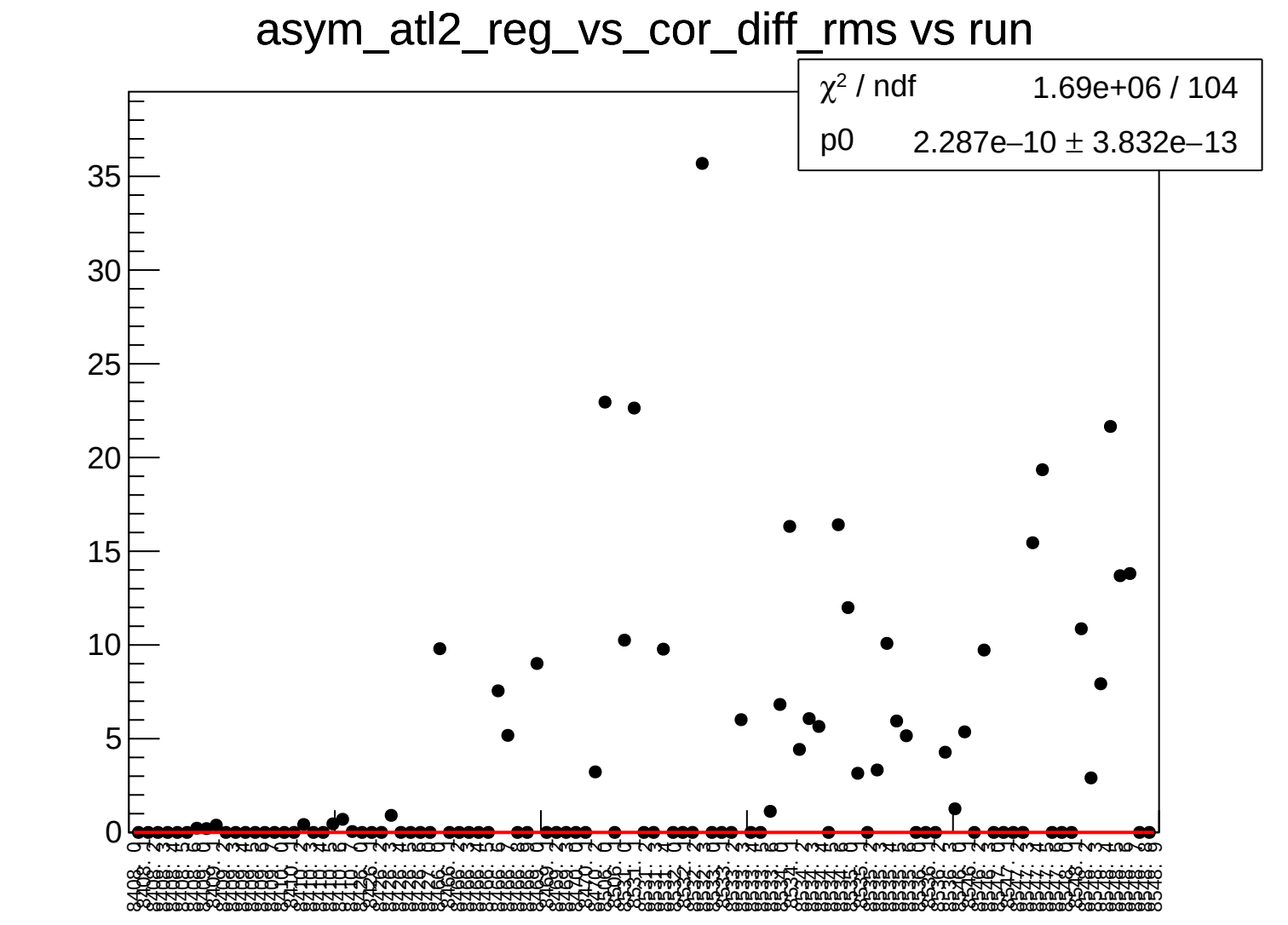

asym_atl2_mean vs run
×10^3
χ² / ndf 64.07 / 101
p0 9299 ± 1.733e+04
pull
Entries 102
Mean 22.64
Std Dev 0

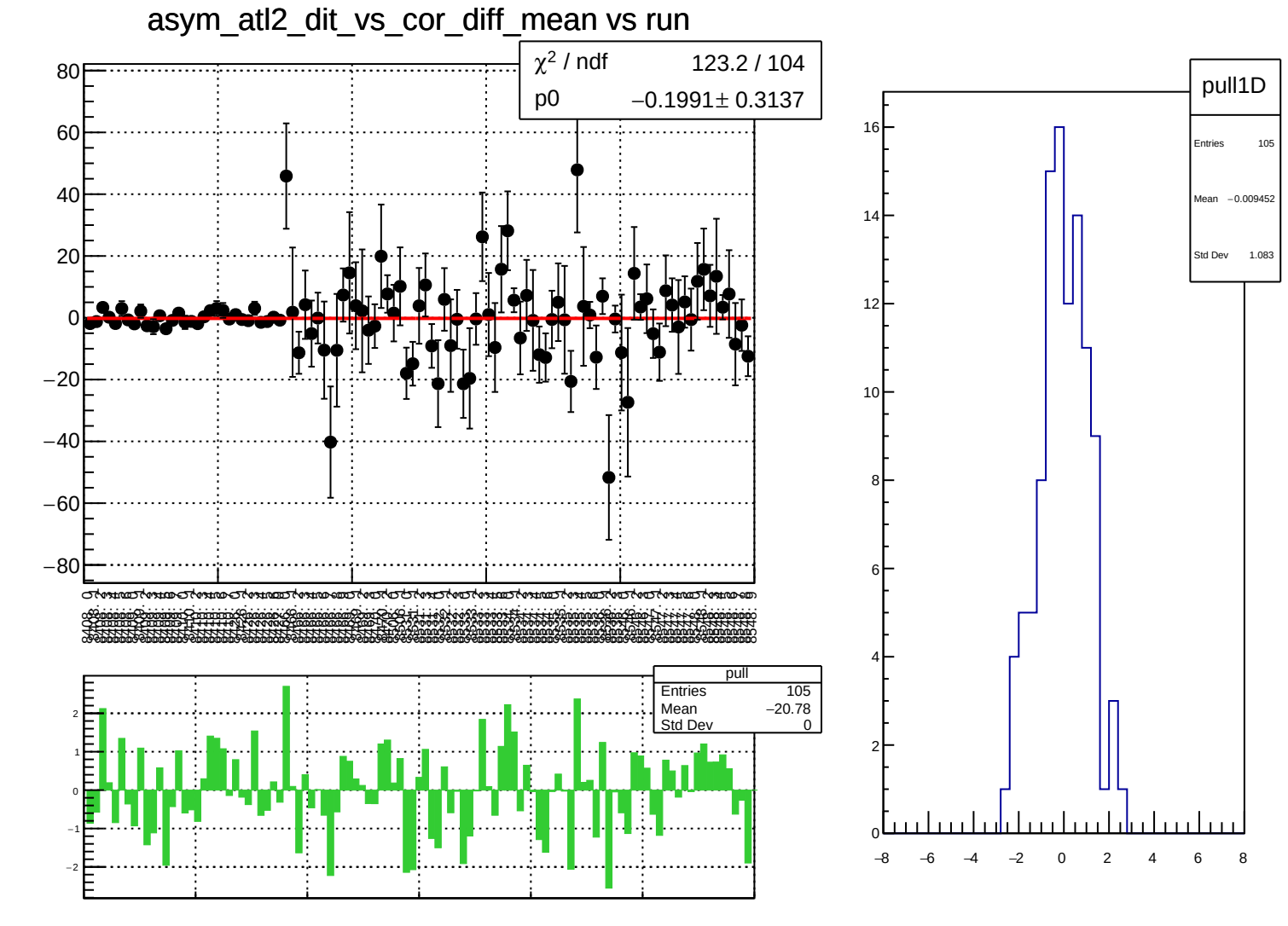

pull1D
Entries 102
Mean −0.01329
Std Dev 0.7924

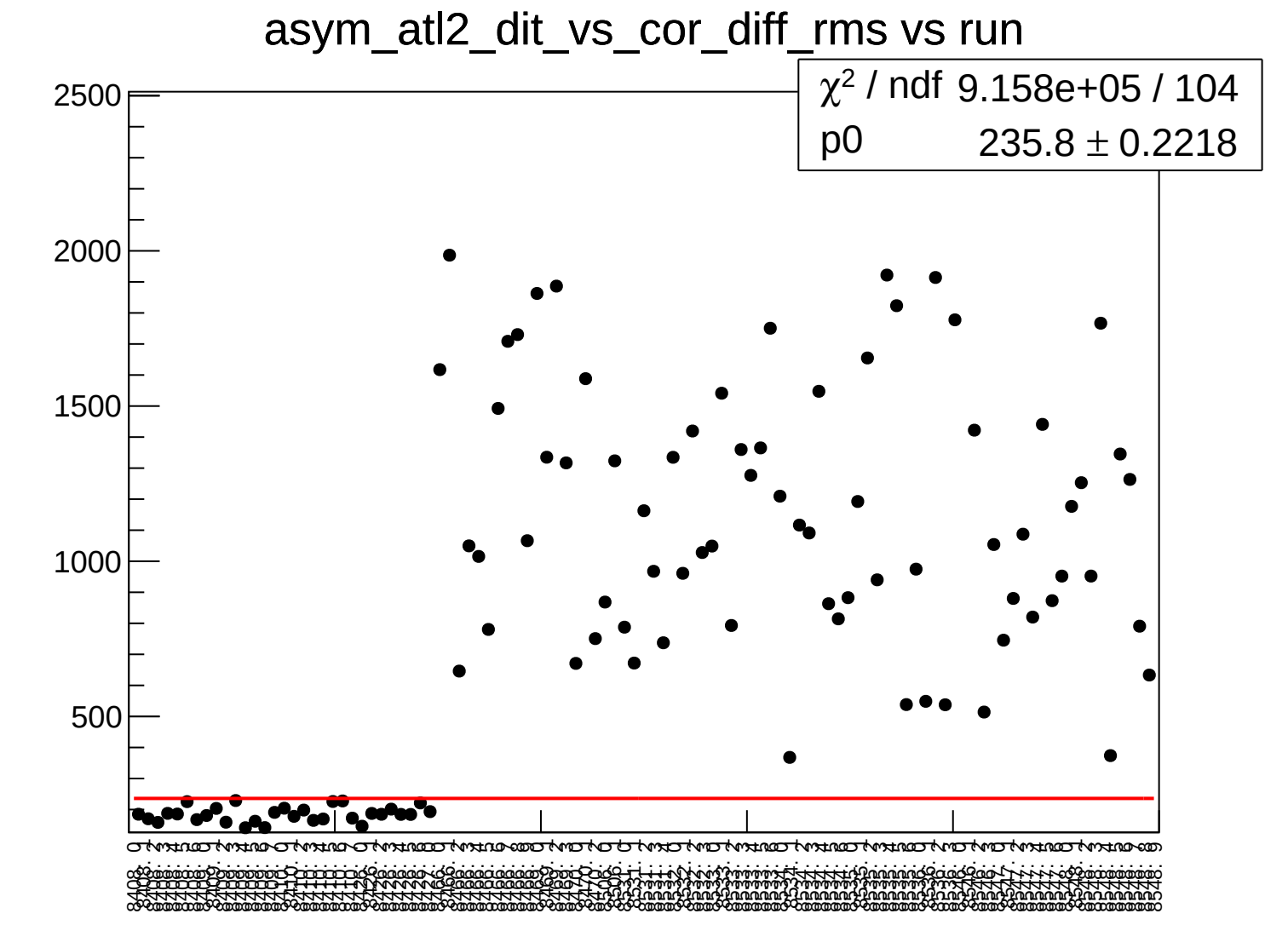

asym_atl2_rms vs run
χ² / ndf 8.332e+05 / 104
p0 1.348e+04 ± 12.24
50000
40000
30000
20000
10000

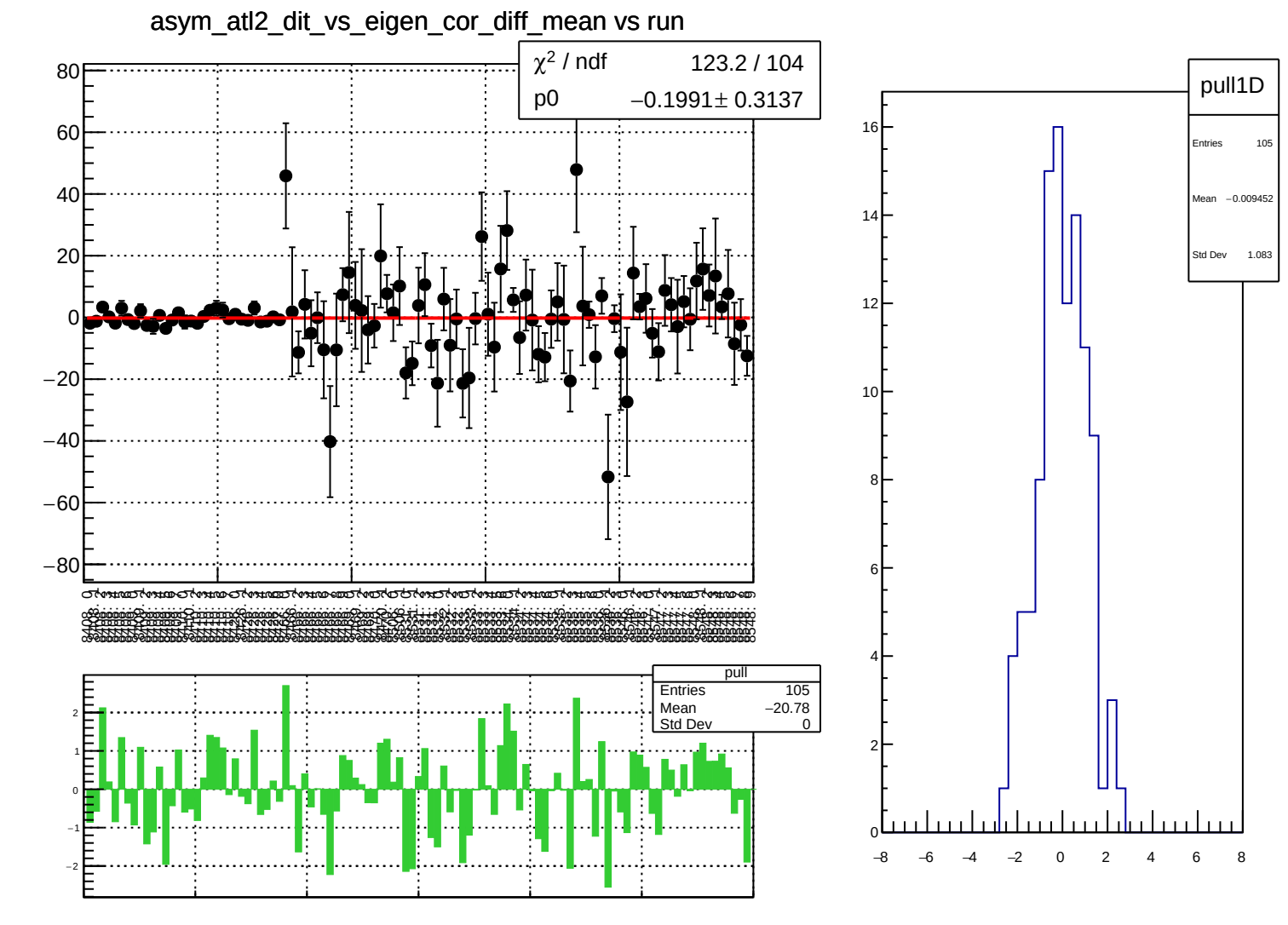

asym_atl2_reg_vs_cor_diff_mean vs run
χ² / ndf 111.1 / 104
p0 −5.895e−13 ± 5.419e−13
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull
Entries 105
Mean −1.278e+04
Std Dev 0
2
1
0
−1
−2

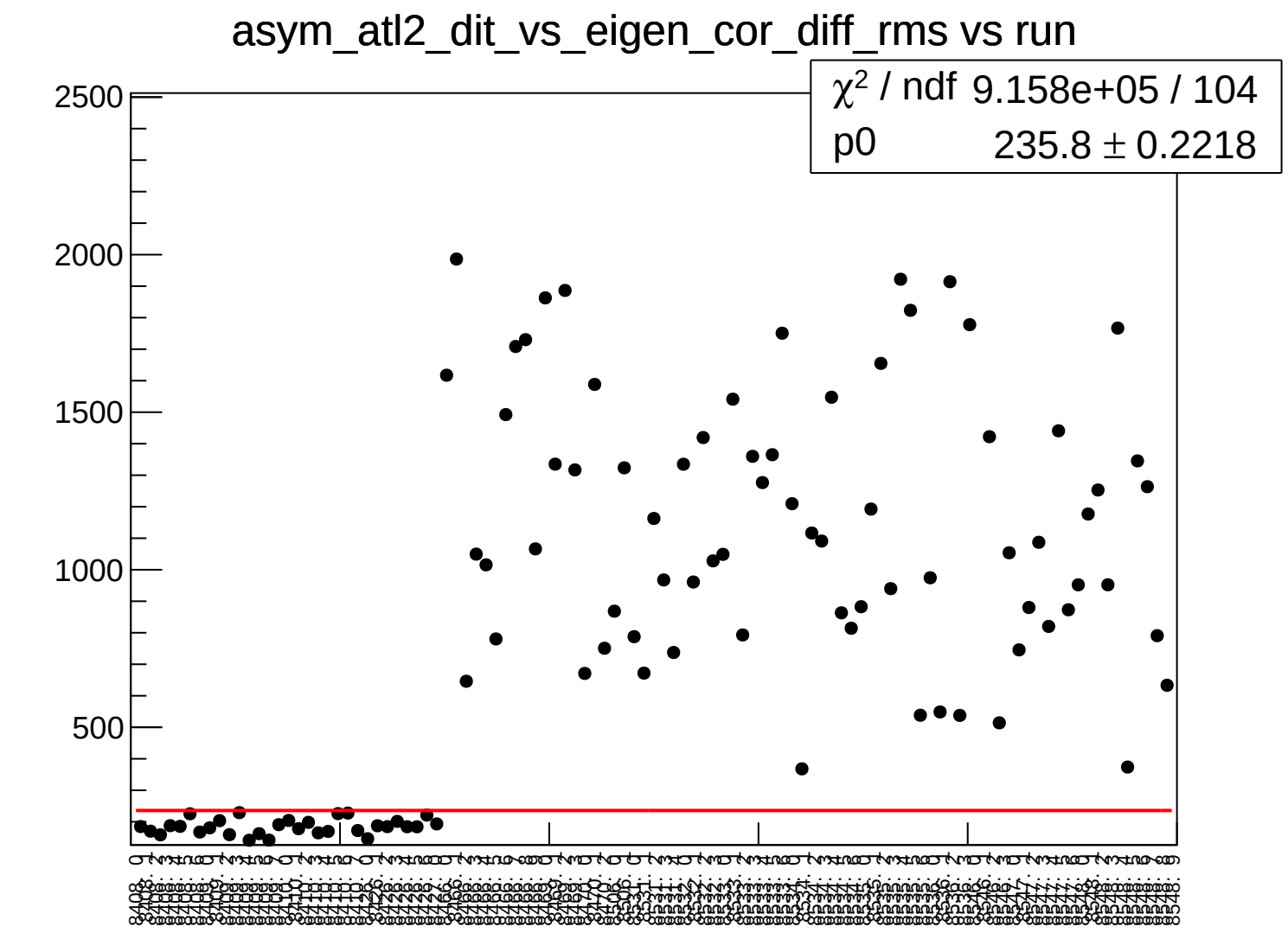

pull1D
Entries 105
Mean 0.0004454
Std Dev 1.029
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

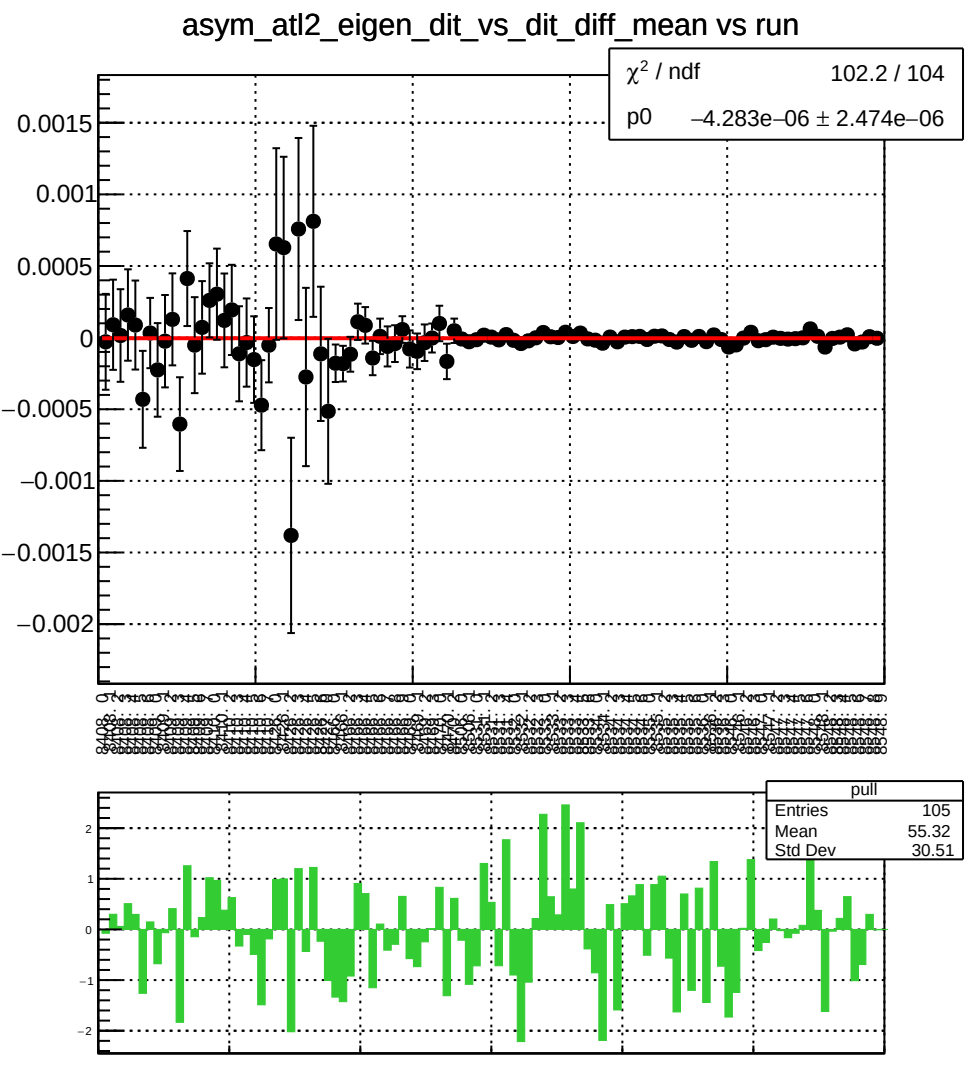

asym_atl2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.69e+06 / 104
p0 2.287e−10 ± 3.832e−13
35
30
25
20
15
10
5
0

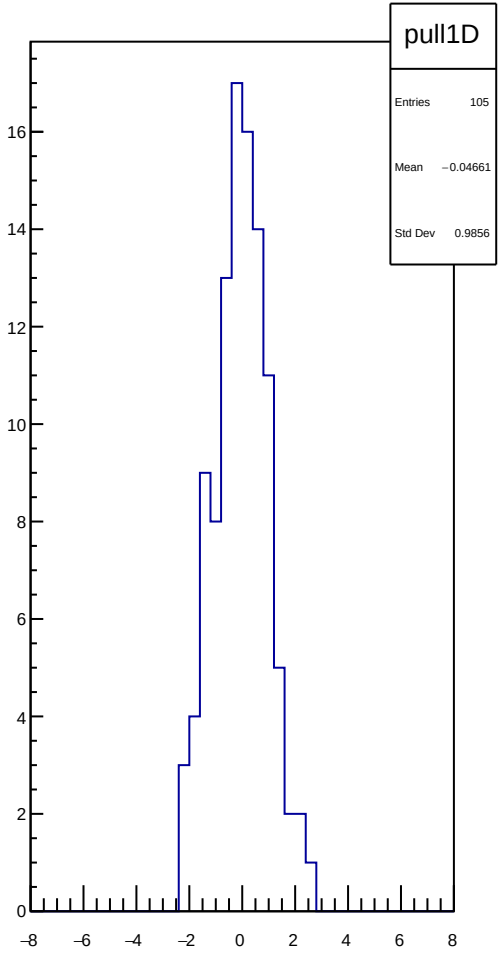

asym_atl2_dit_vs_cor_diff_mean vs run
χ² / ndf 123.2 / 104
p0 −0.1991± 0.3137
pull
Entries 105
Mean −20.78
Std Dev 0
pull1D
Entries 105
Mean −0.009452
Std Dev 1.083


asym_atl2_dit_vs_cor_diff_rms vs run
χ^2 / ndf 9.158e+05 / 104
p0 235.8 ± 0.2218
2500
2000
1500
1000
500

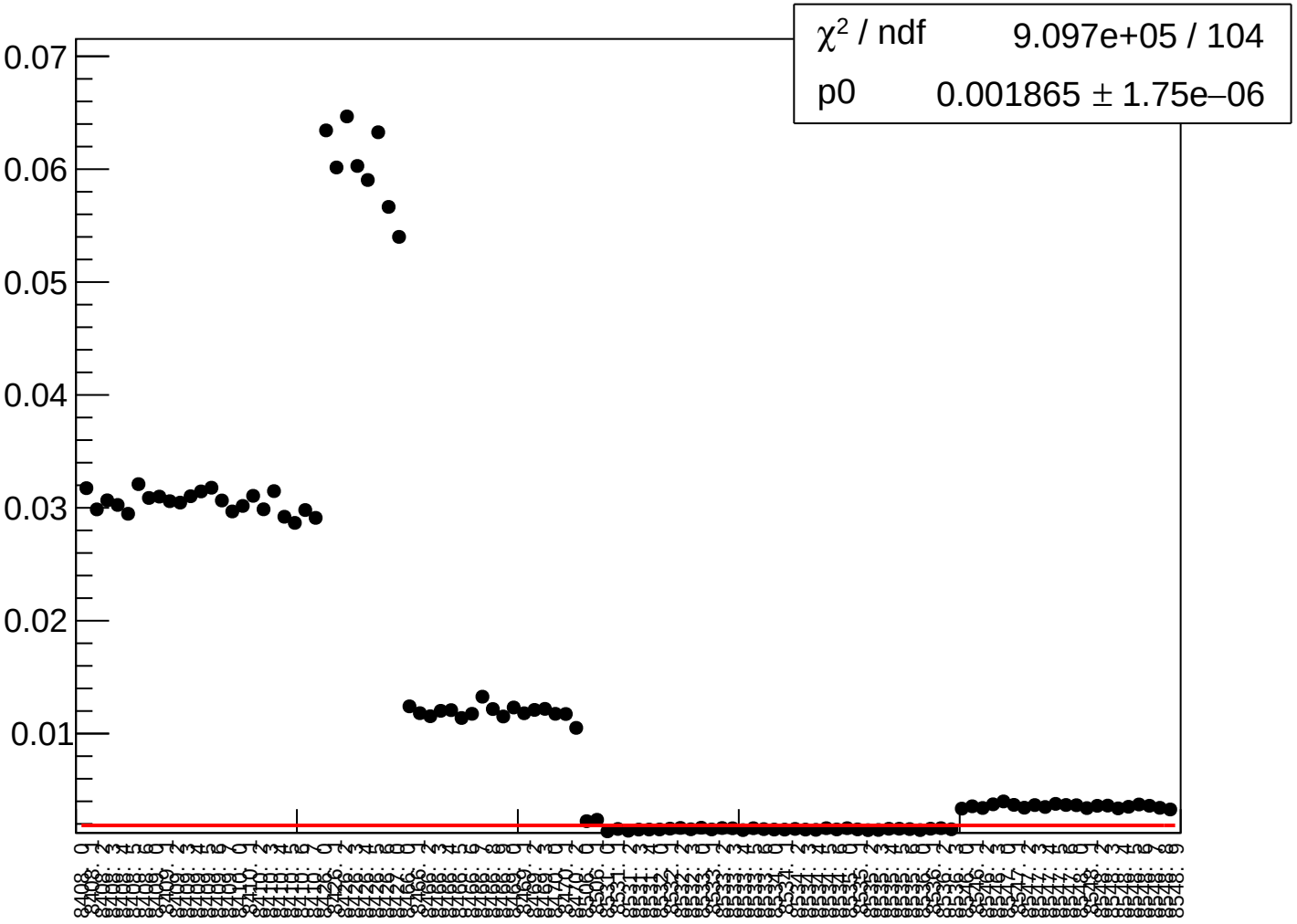

asym_atl2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 123.2 / 104
p0 −0.1991± 0.3137
pull
Entries 105
Mean −20.78
Std Dev 0
pull1D
Entries 105
Mean −0.009452
Std Dev 1.083

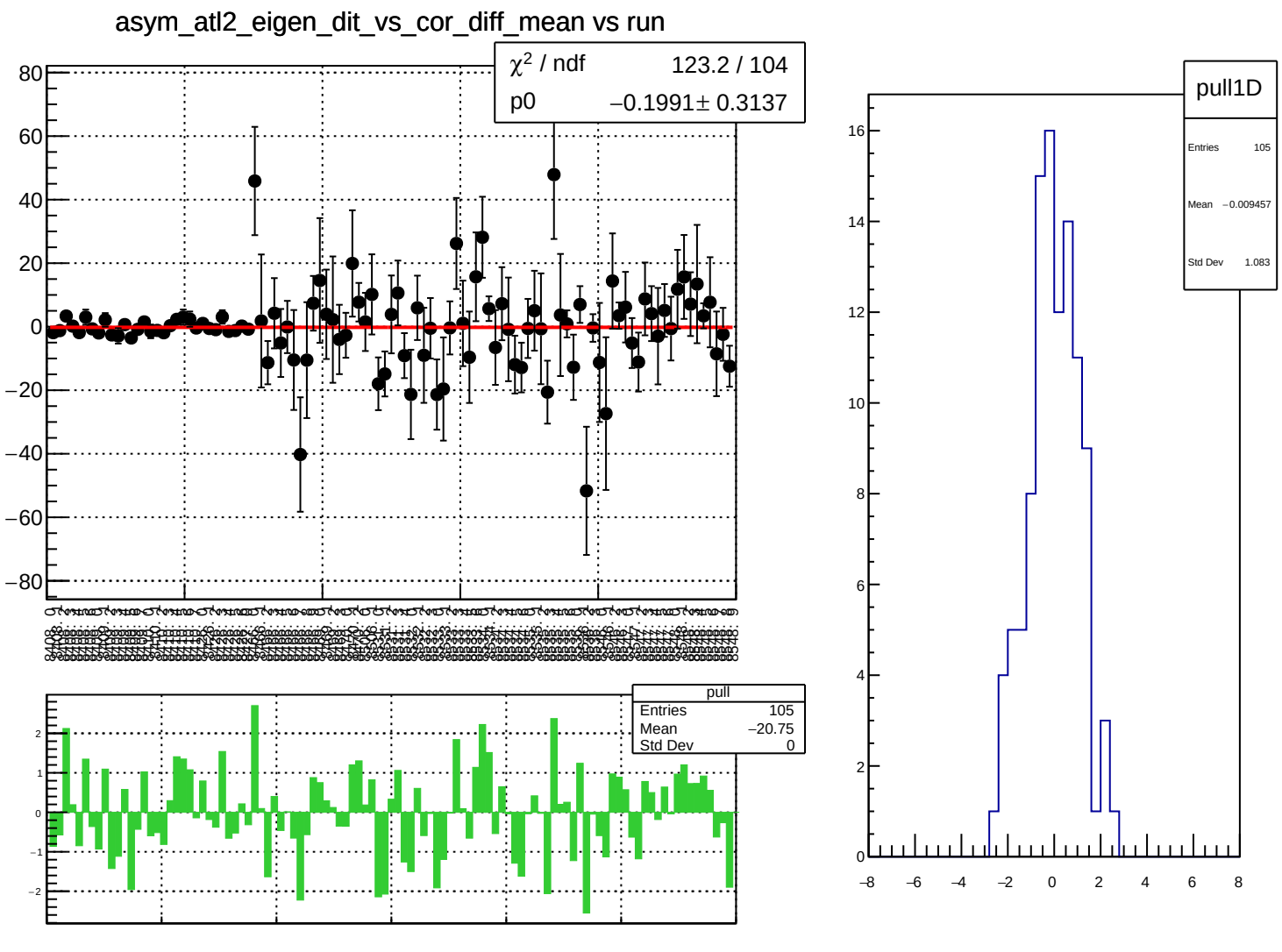

asym_atl2_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 9.158e+05 / 104
p0 235.8 ± 0.2218
2500
2000
1500
1000
500

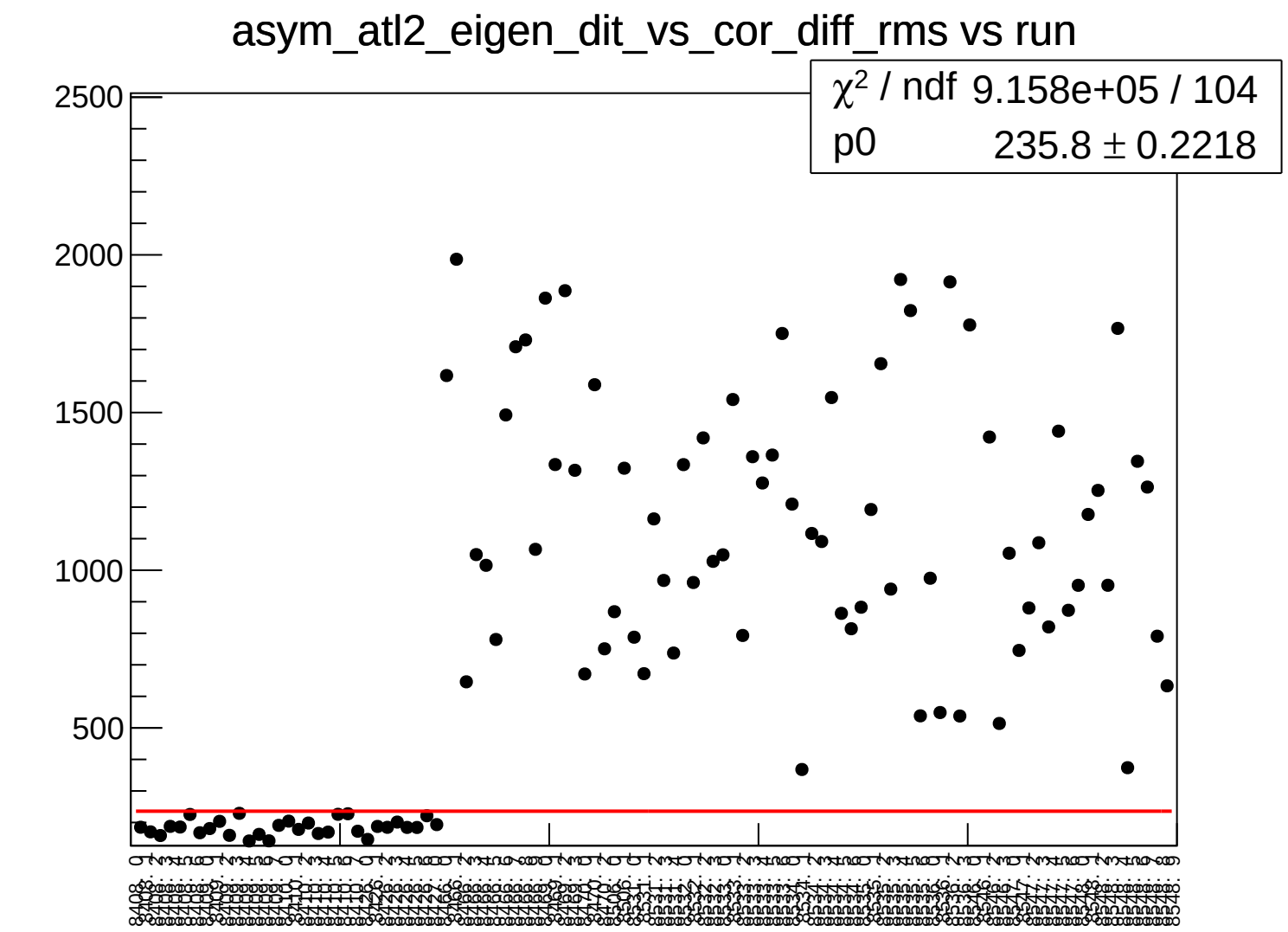

asym_atl2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 102.2 / 104
p0 −4.283e−06 ± 2.474e−06
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 105
Mean 55.32
Std Dev 30.51
2
1
0
−1
−2

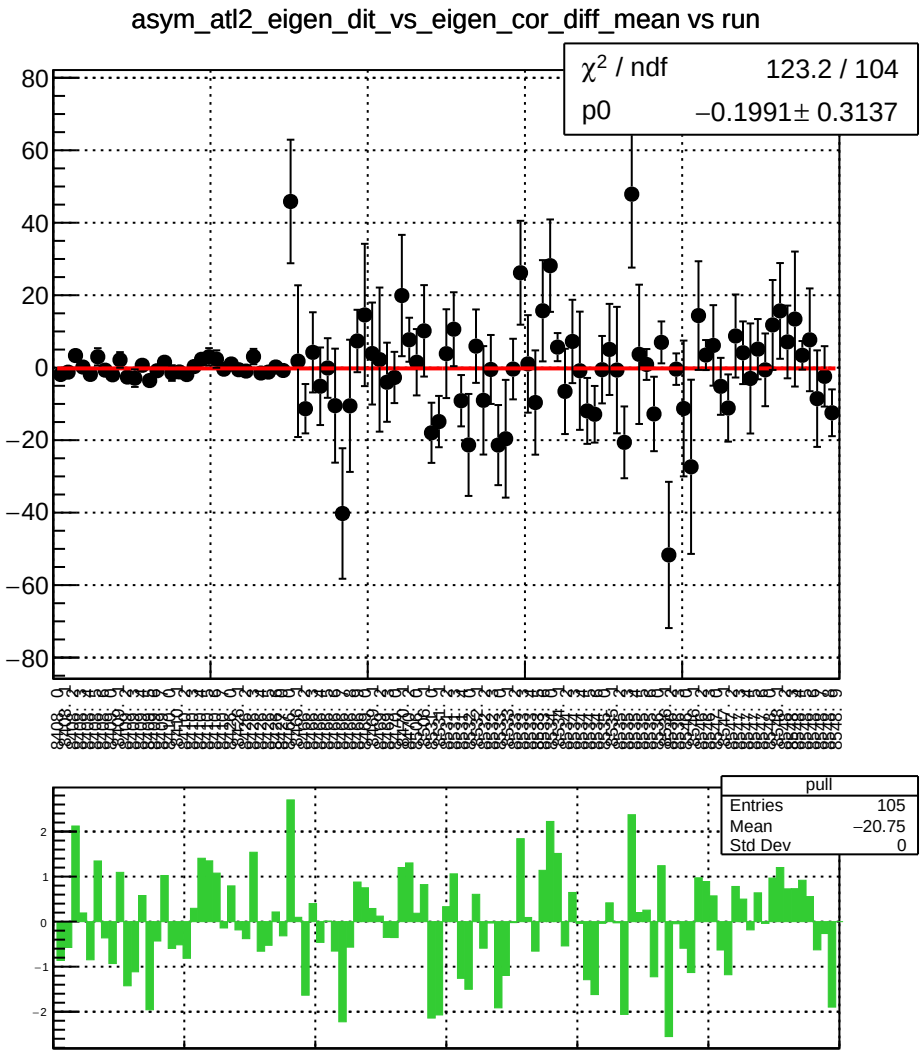

pull1D
Entries 105
Mean −0.04661
Std Dev 0.9856
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

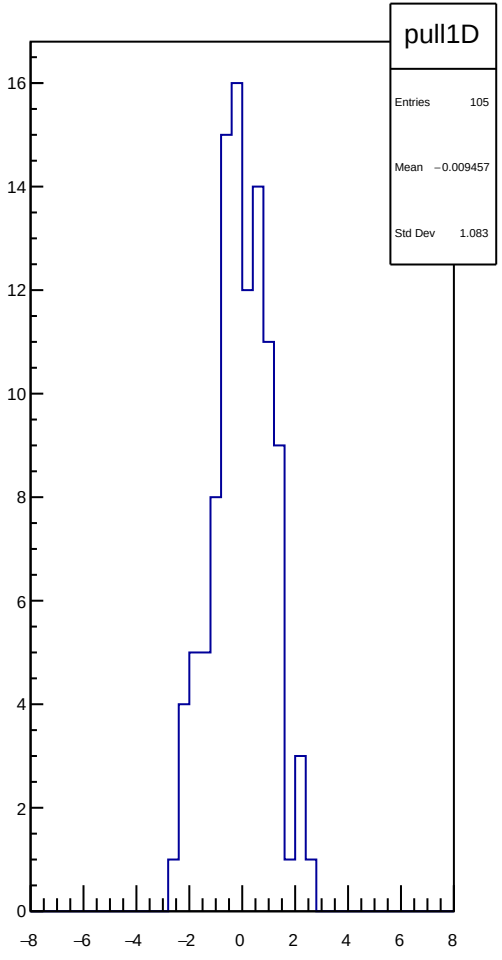
asym_atl2_eigen_dit_vs_dit_diff_rms vs run

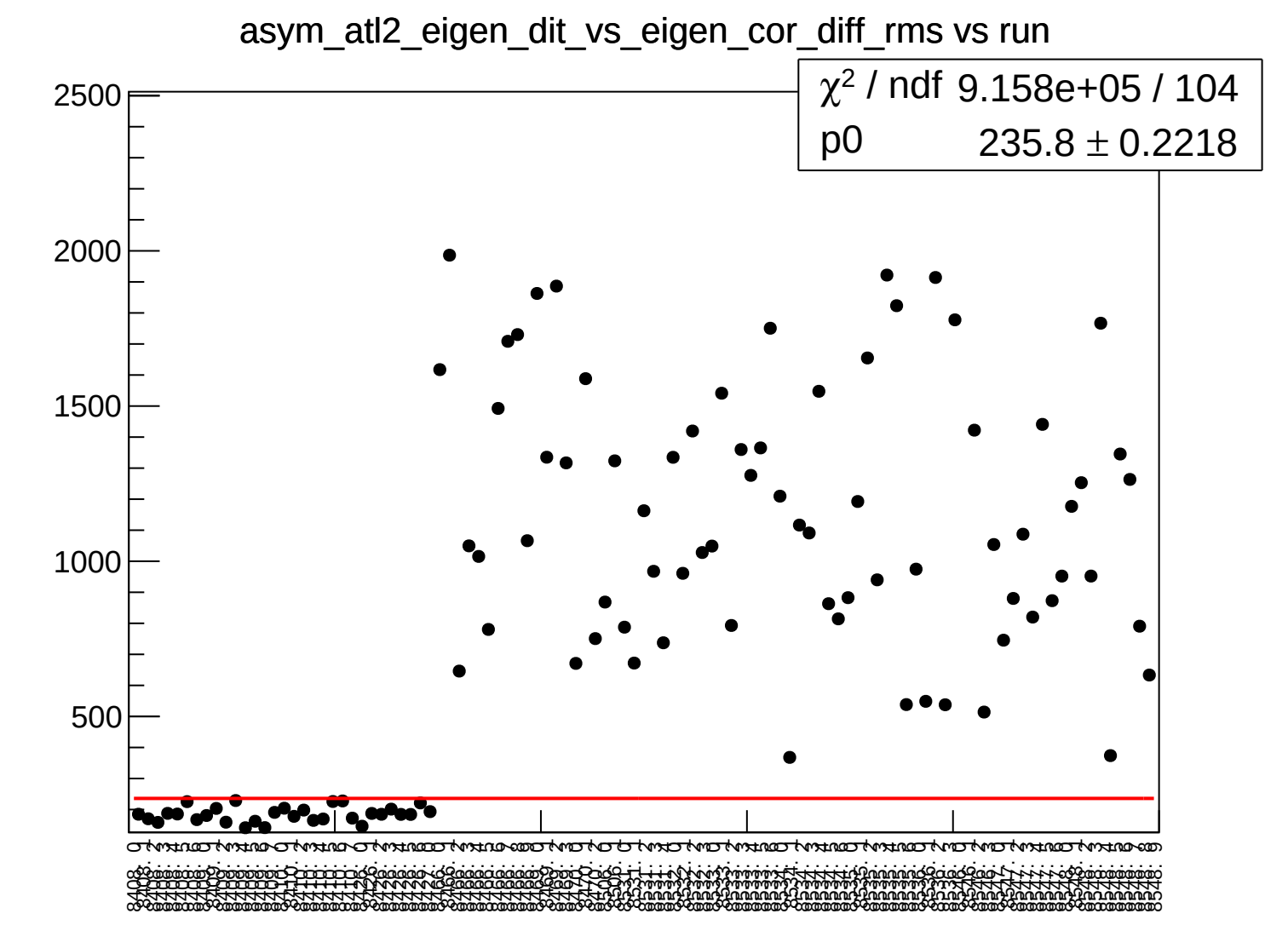


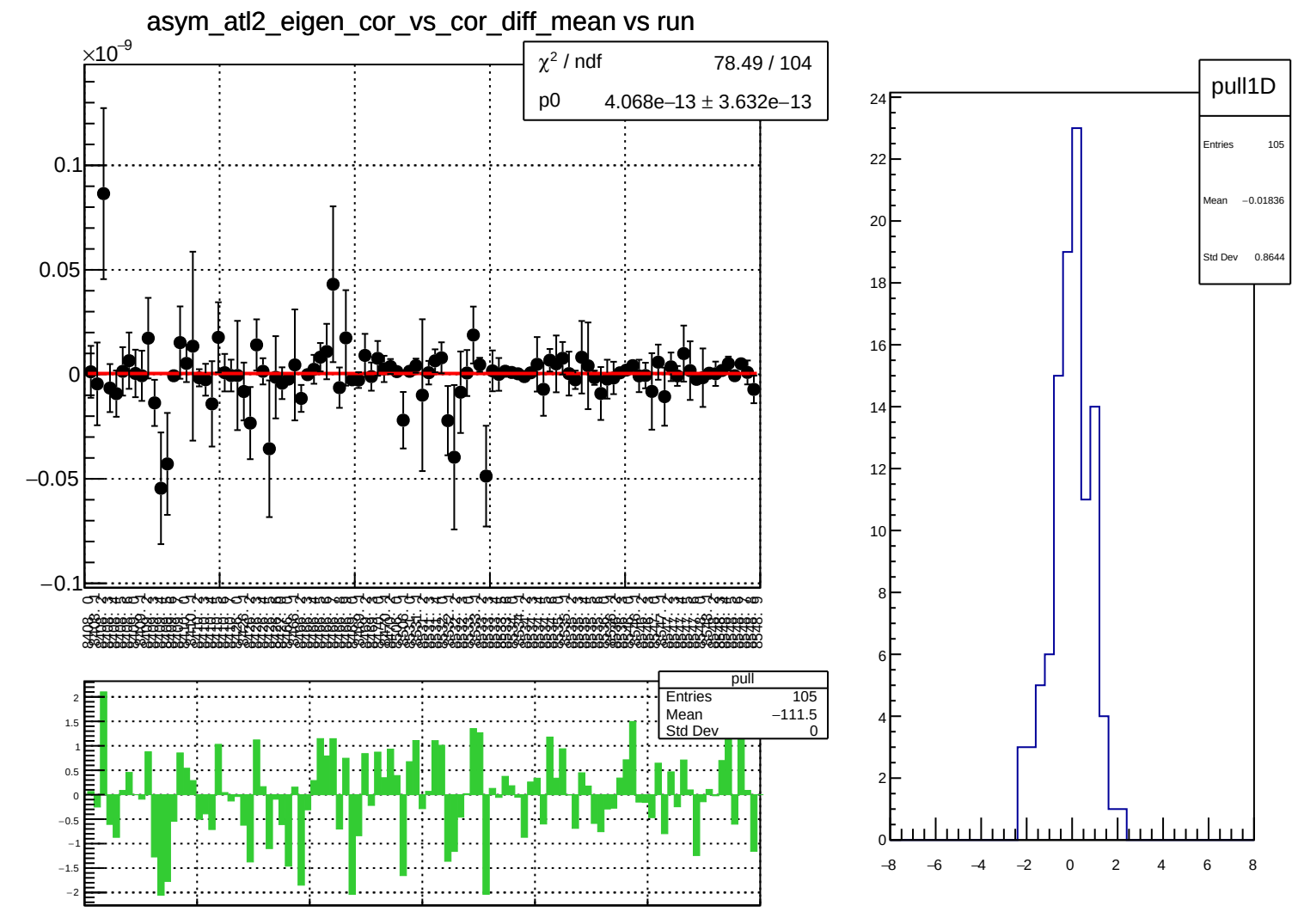

asym_atl2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 123.2 / 104
p0 −0.1991± 0.3137
pull
Entries 105
Mean −20.75
Std Dev 0
pull1D
Entries 105
Mean −0.009457
Std Dev 1.083

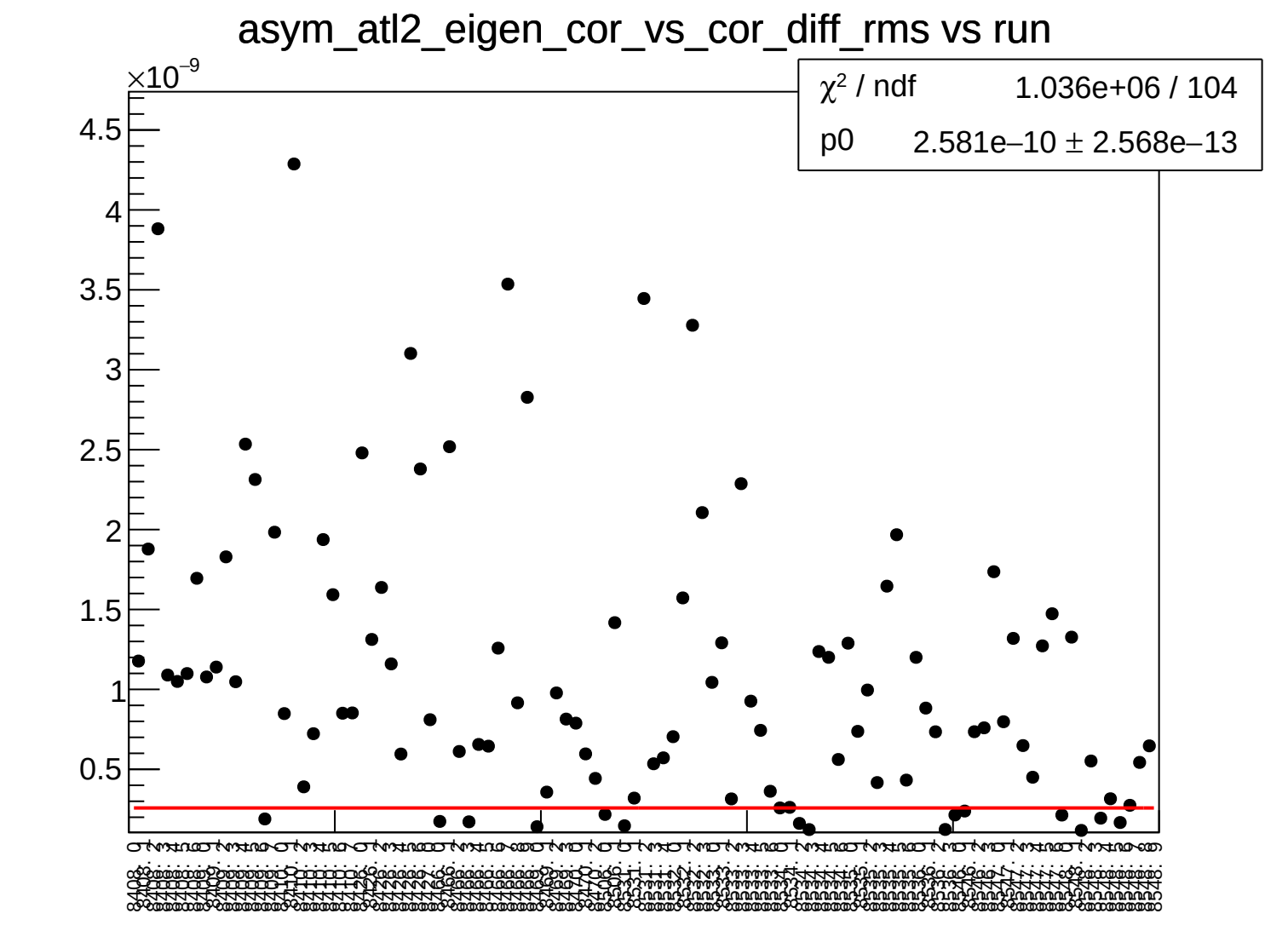

asym_atl2_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 9.158e+05 / 104
p0 235.8 ± 0.2218
2500
2000
1500
1000
500

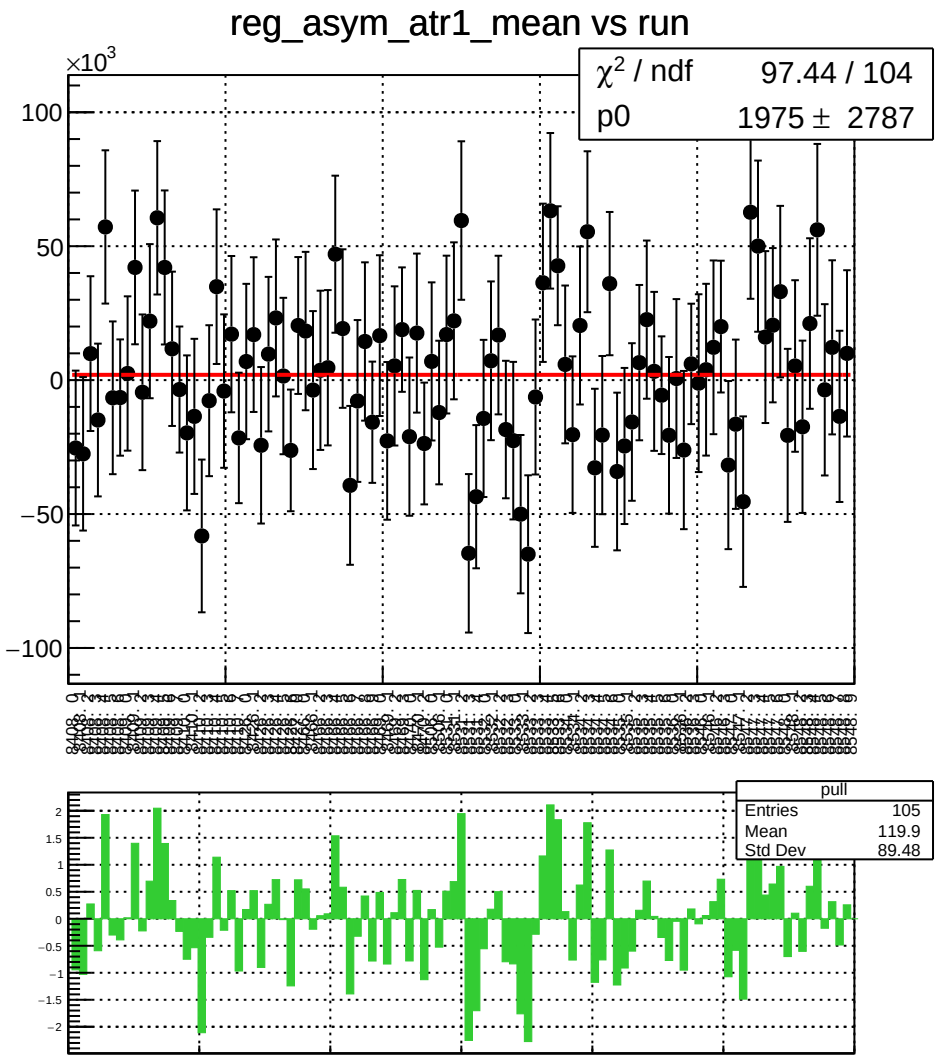

asym_atl2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 123.2 / 104
p0 −0.1991± 0.3137
pull
Entries 105
Mean −20.75
Std Dev 0

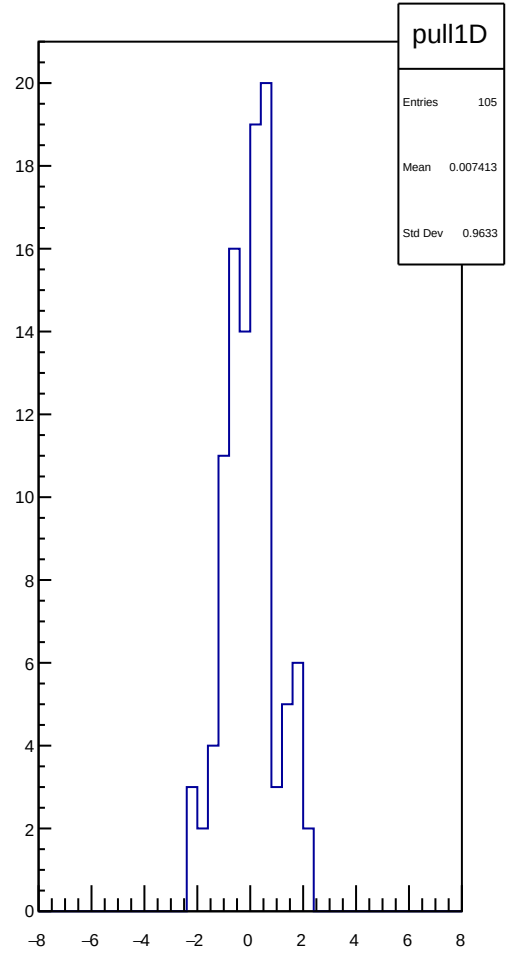

pull1D
Entries 105
Mean −0.009457
Std Dev 1.083

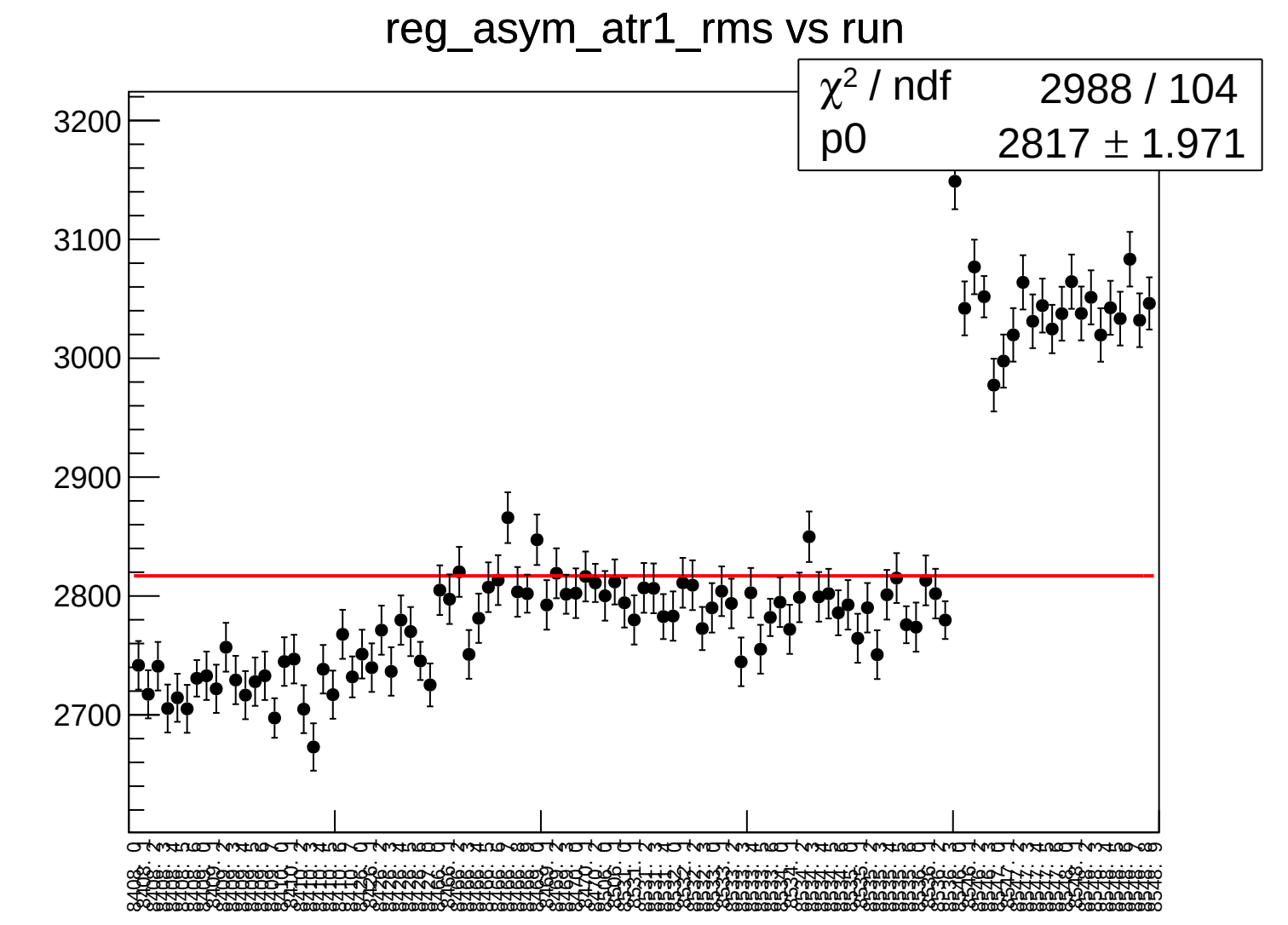

asym_atl2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.158e+05 / 104
p0 235.8 ± 0.2218
2500
2000
1500
1000
500

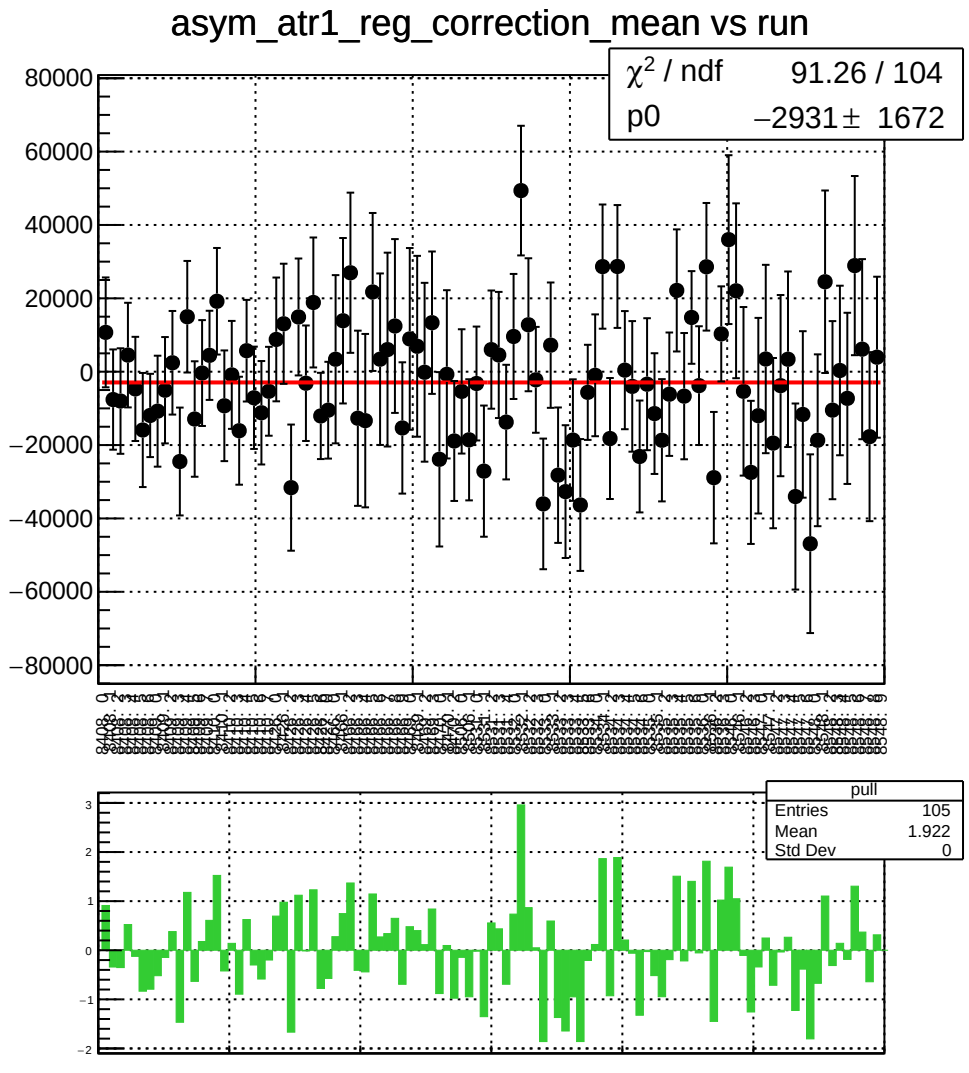

asym_atl2_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 78.49 / 104
p0 4.068e−13 ± 3.632e−13
0.1
0.05
0
−0.05
−0.1
pull
Entries 105
Mean −111.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 105
Mean −0.01836
Std Dev 0.8644
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

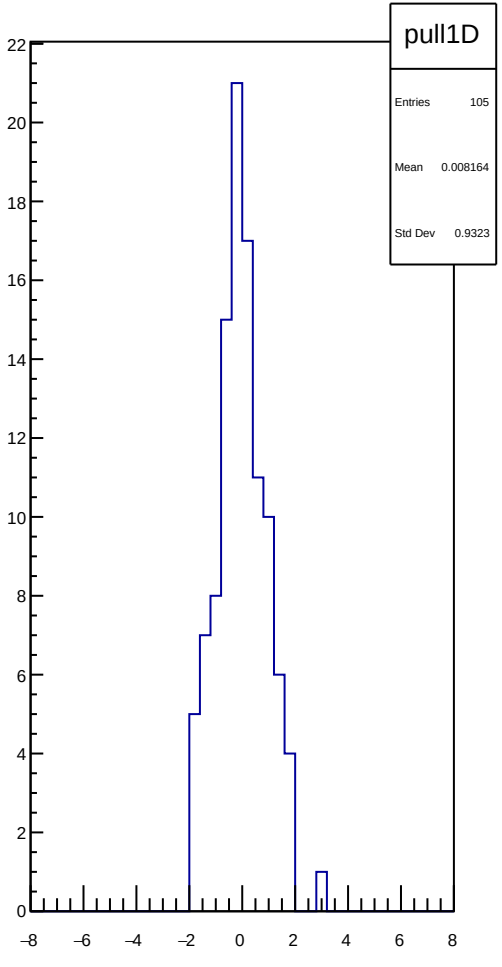

asym_atl2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.036e+06 / 104
p0 2.581e−10 ± 2.568e−13
4.5
4
3.5
3
2.5
2
1.5
1
0.5

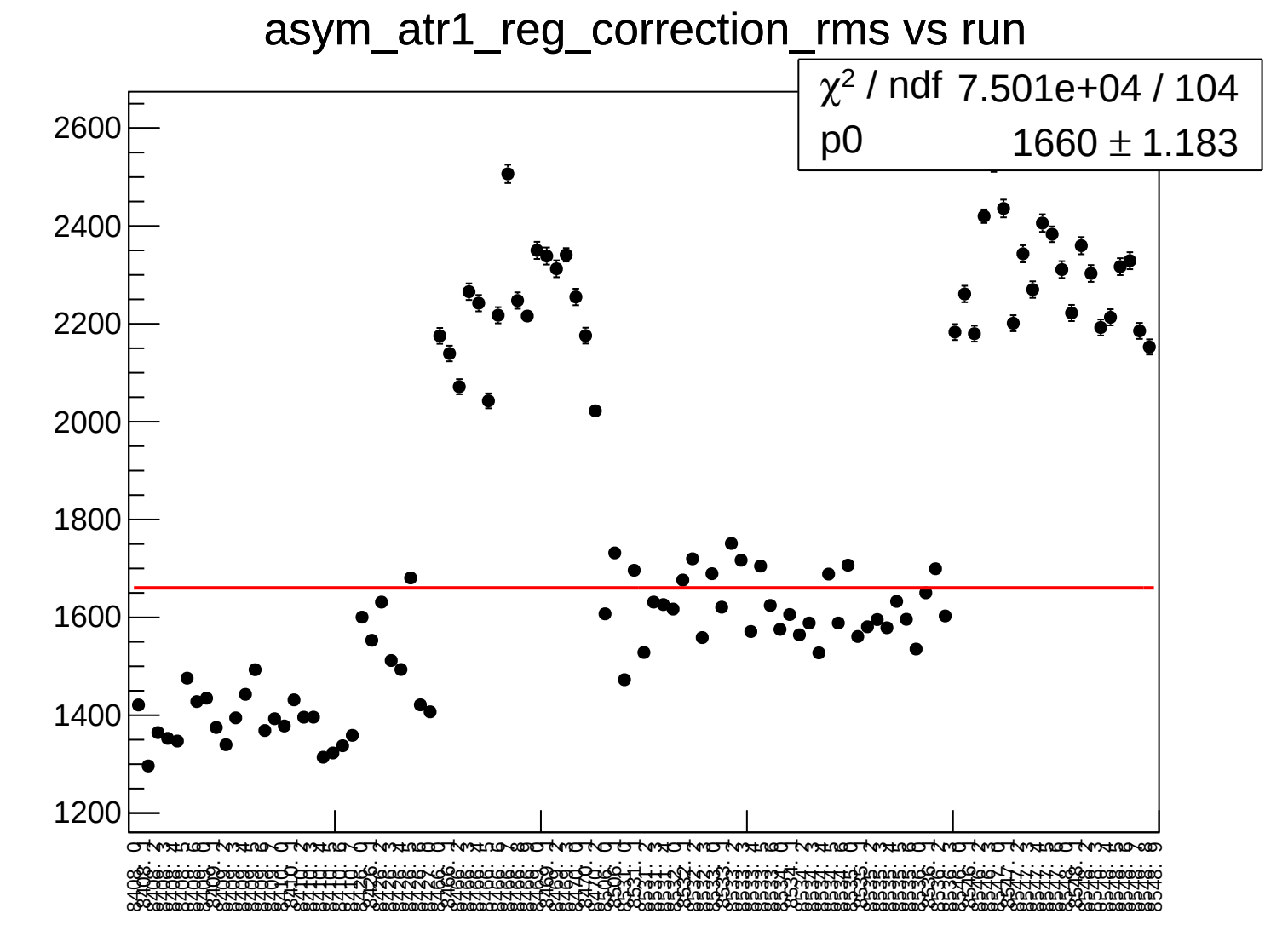

reg_asym_atr1_mean vs run
×10^3
χ^2 / ndf 97.44 / 104
p0 1975 ± 2787
100
50
0
−50
−100
pull
Entries 105
Mean 119.9
Std Dev 89.48
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

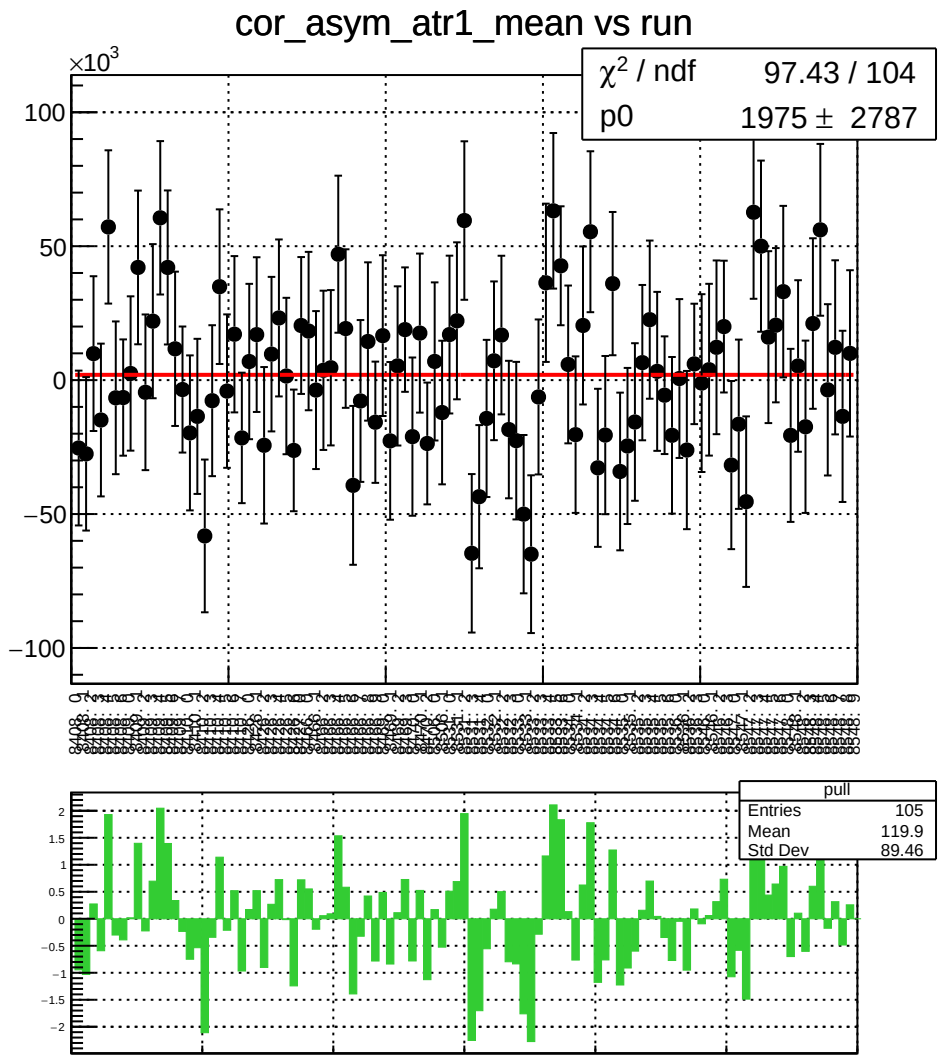

pull1D
Entries 105
Mean 0.007413
Std Dev 0.9633
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

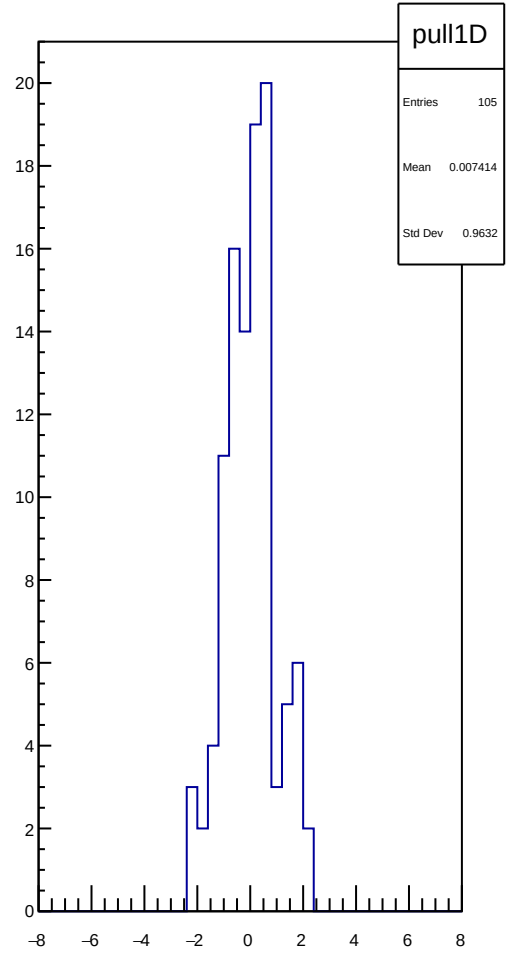

reg_asym_atr1_rms vs run
χ² / ndf 2988 / 104
p0 2817 ± 1.971
3200
3100
3000
2900
2800
2700

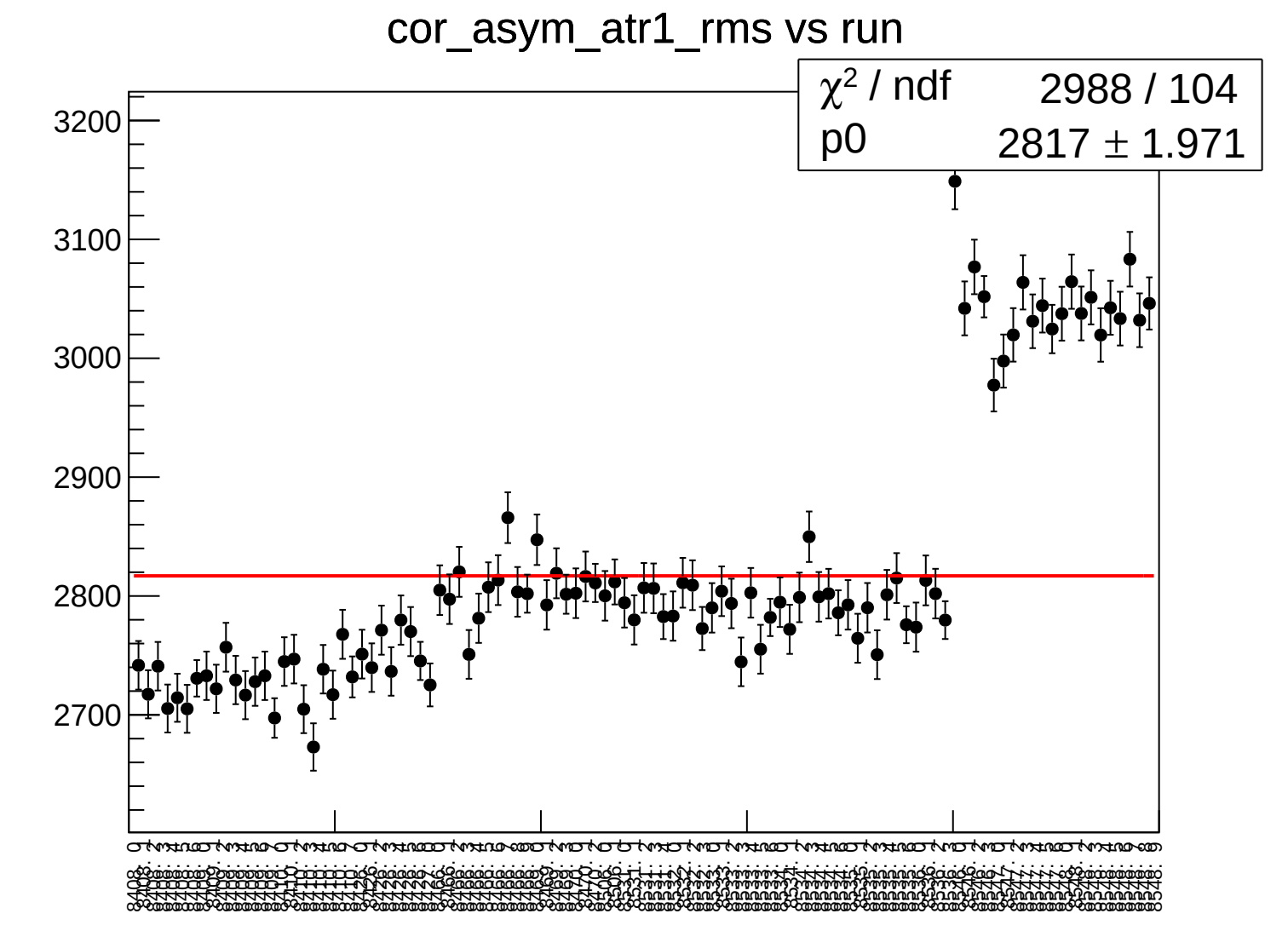

asym_atr1_reg_correction_mean vs run
χ² / ndf 91.26 / 104
p0 −2931 ± 1672
pull
Entries 105
Mean 1.922
Std Dev 0

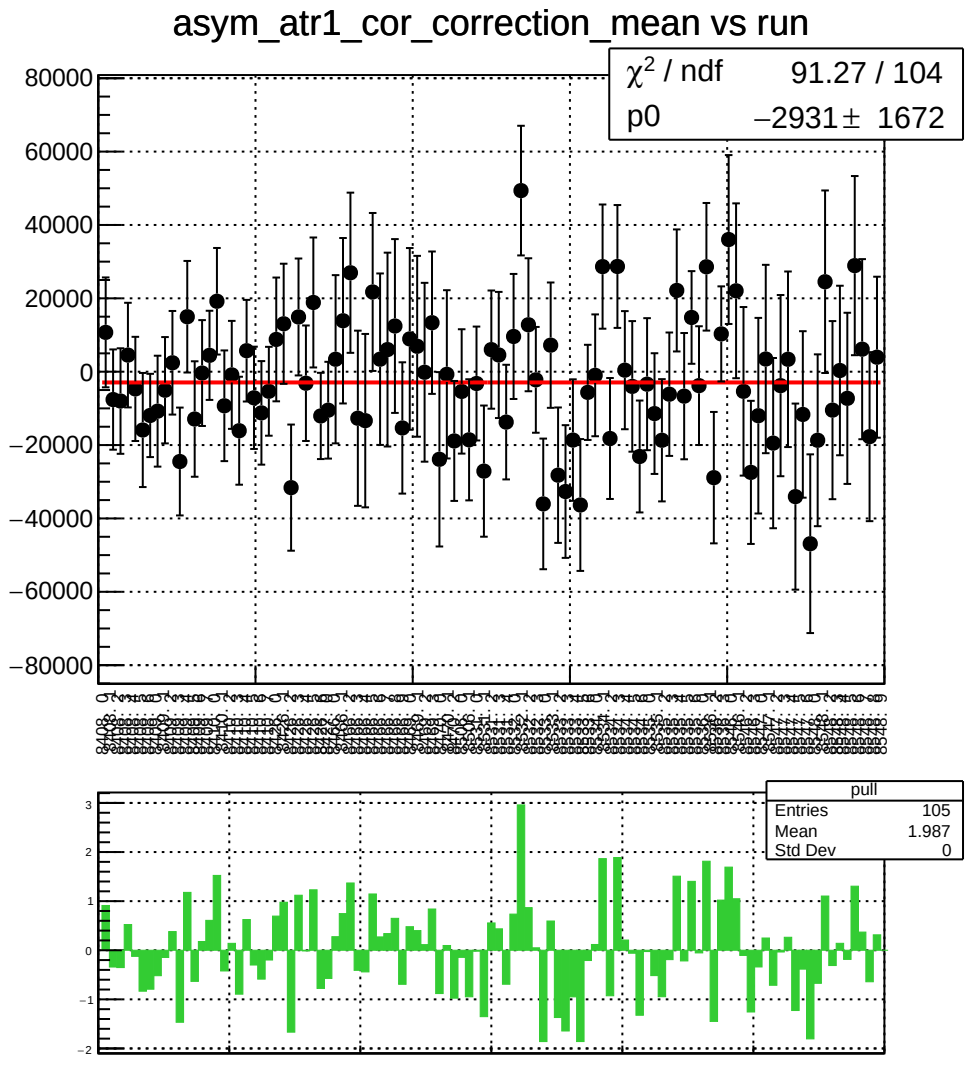

pull1D
Entries 105
Mean 0.008164
Std Dev 0.9323

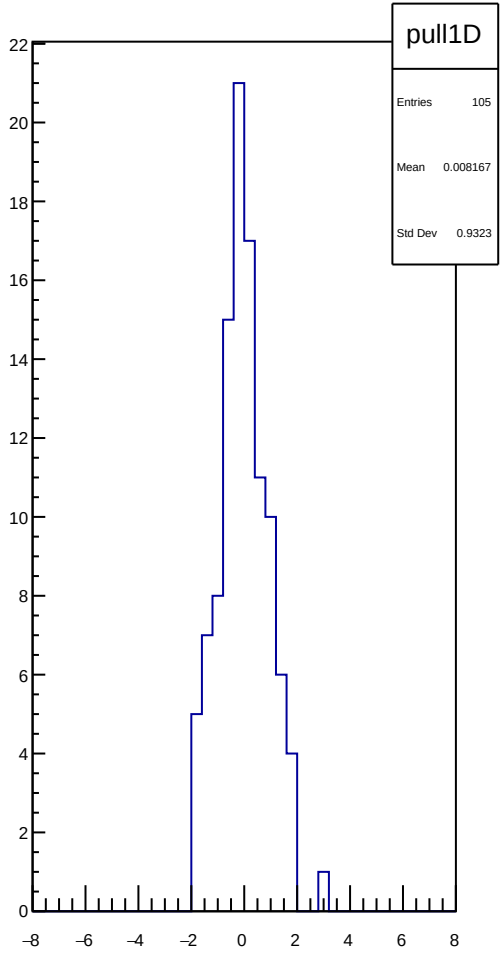

asym_atr1_reg_correction_rms vs run
χ^2 / ndf 7.501e+04 / 104
p0 1660 ± 1.183
2600
2400
2200
2000
1800
1600
1400
1200

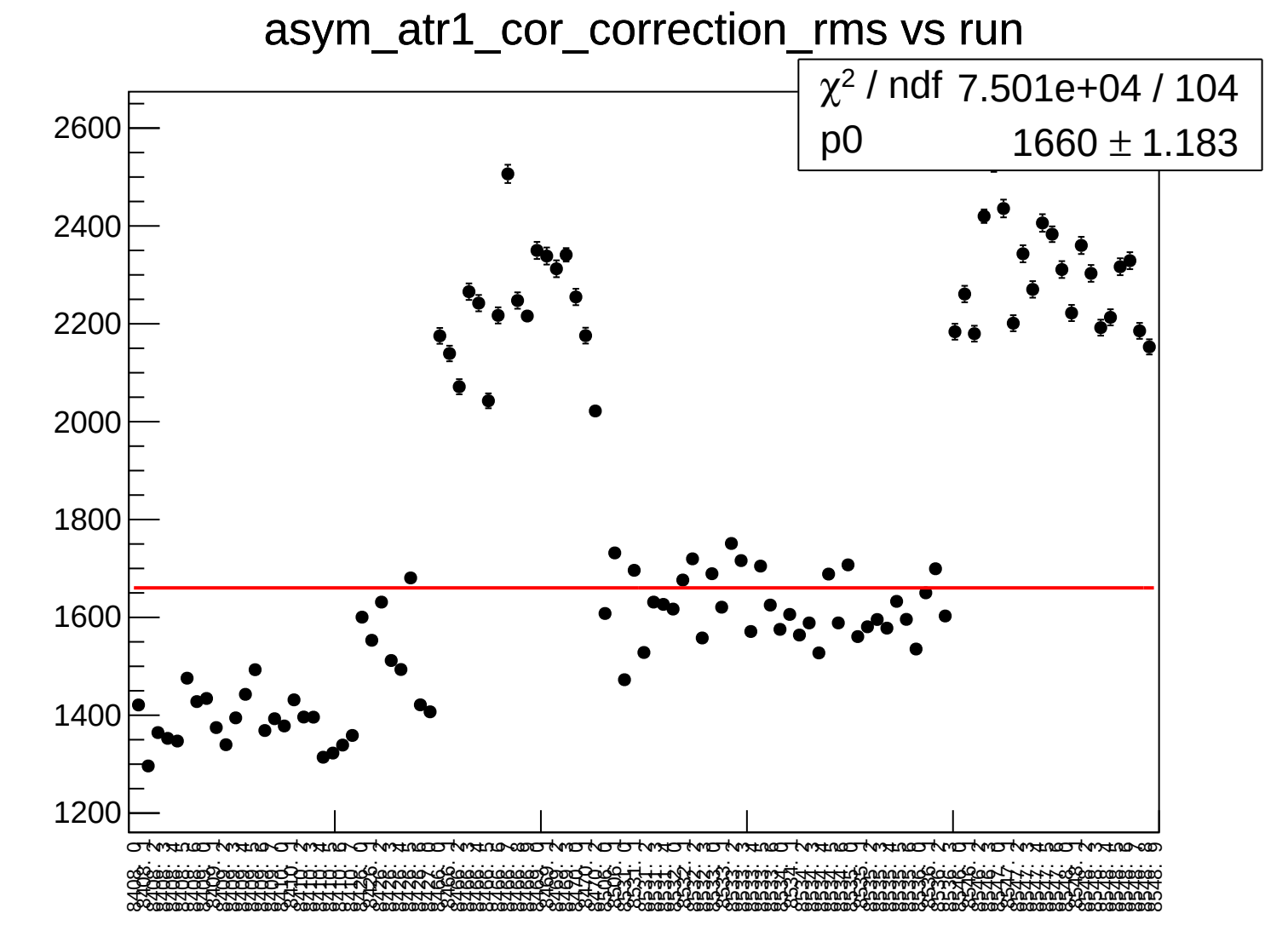

cor_asym_atr1_mean vs run
×10^3
χ^2 / ndf 97.43 / 104
p0 1975 ± 2787
100
50
0
−50
−100
pull
Entries 105
Mean 119.9
Std Dev 89.46
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

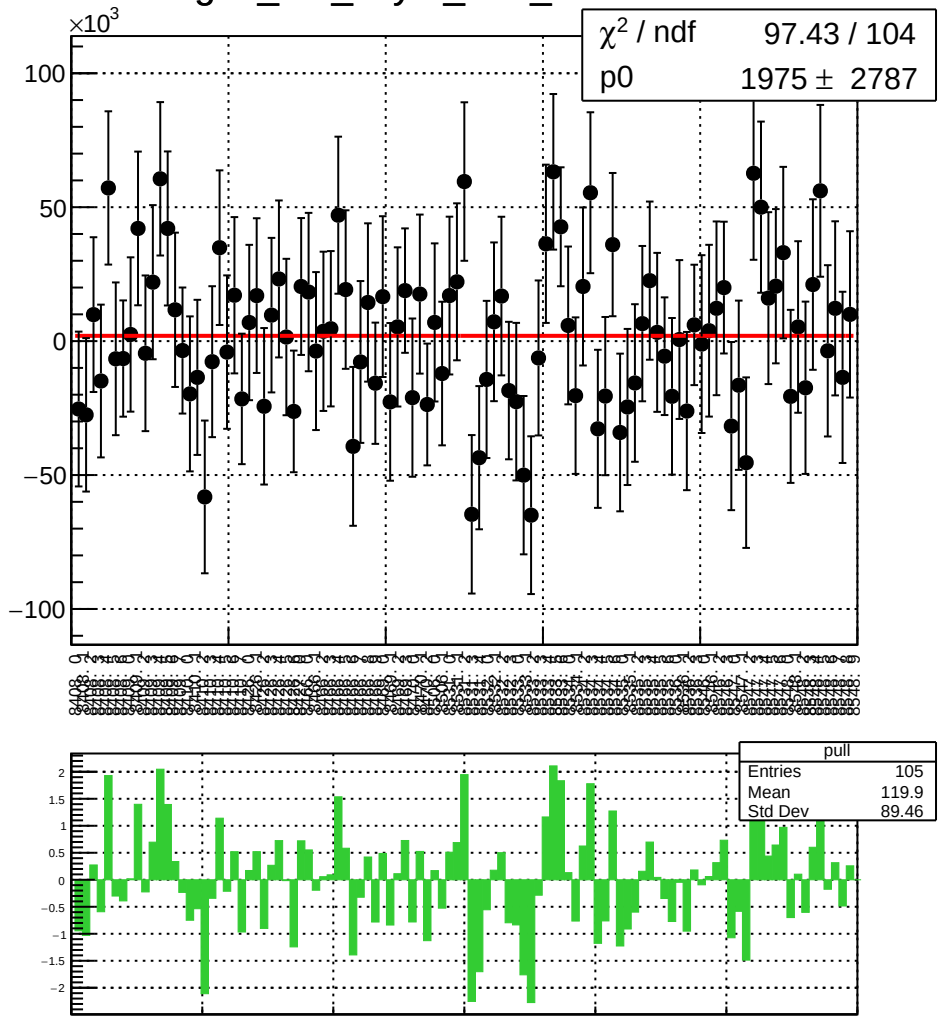

pull1D
Entries 105
Mean 0.007414
Std Dev 0.9632
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

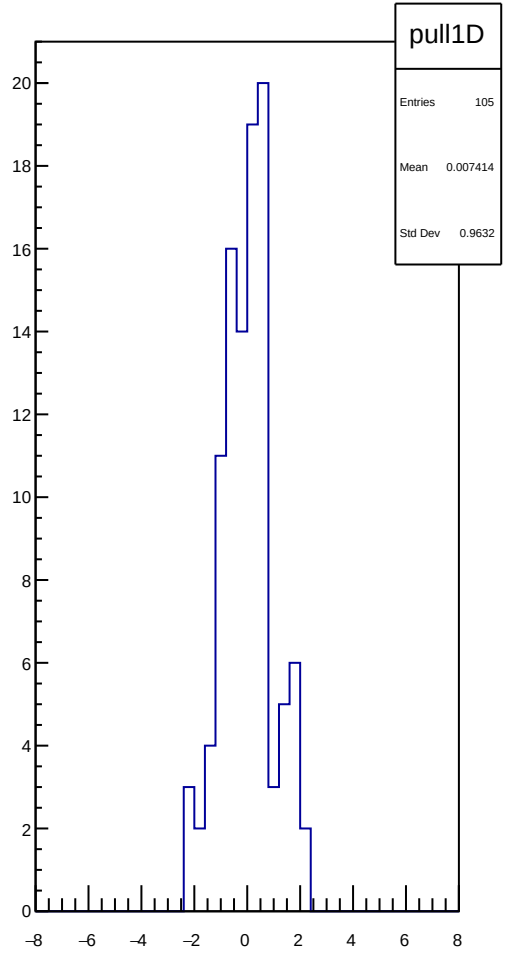

cor_asym_atr1_rms vs run
χ² / ndf 2988 / 104
p0 2817 ± 1.971
3200
3100
3000
2900
2800
2700

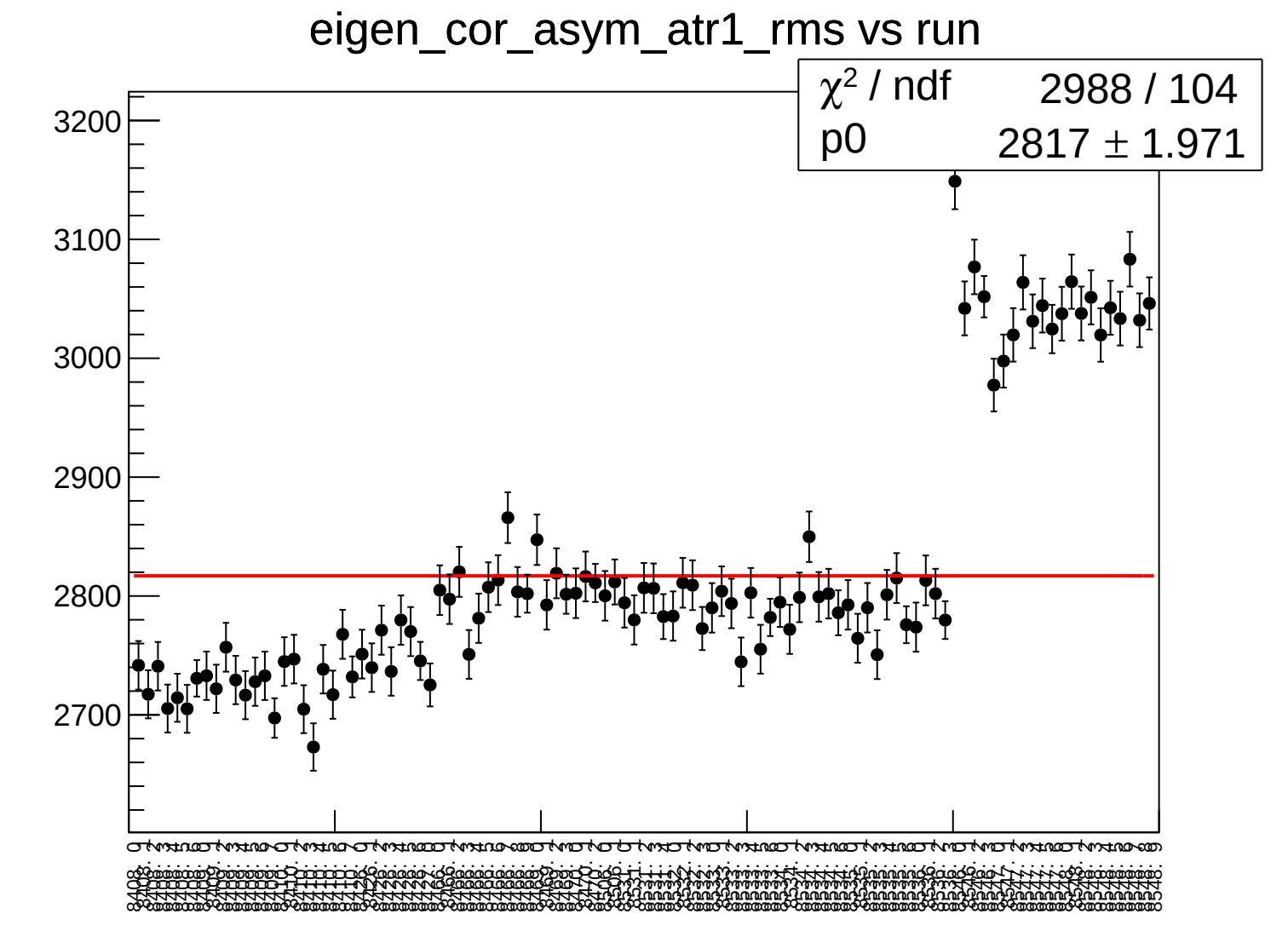

asym_atr1_cor_correction_mean vs run
χ² / ndf 91.27 / 104
p0 −2931 ± 1672
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 105
Mean 1.987
Std Dev 0
3
2
1
0
−1
−2

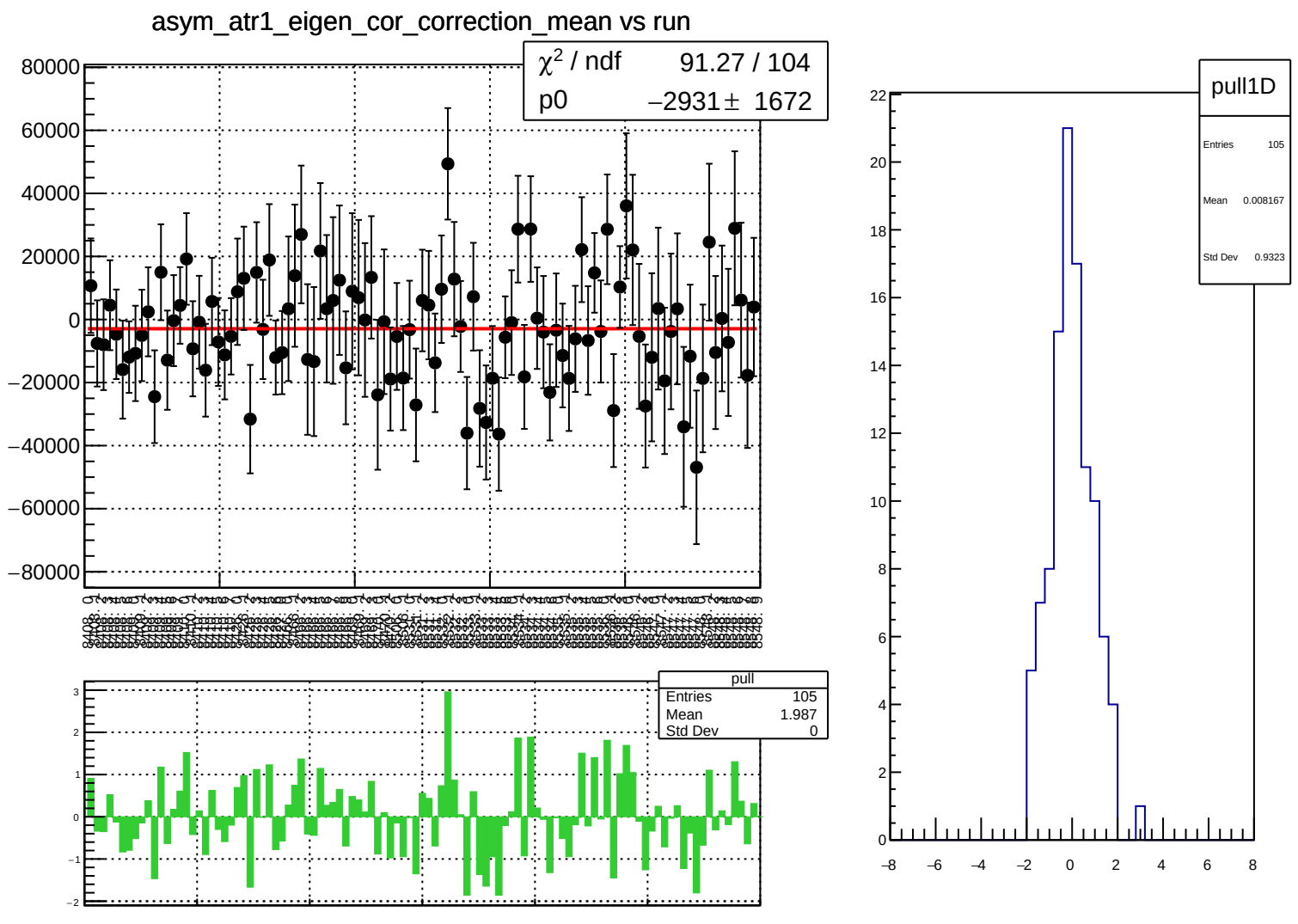

pull1D
Entries 105
Mean 0.008167
Std Dev 0.9323
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

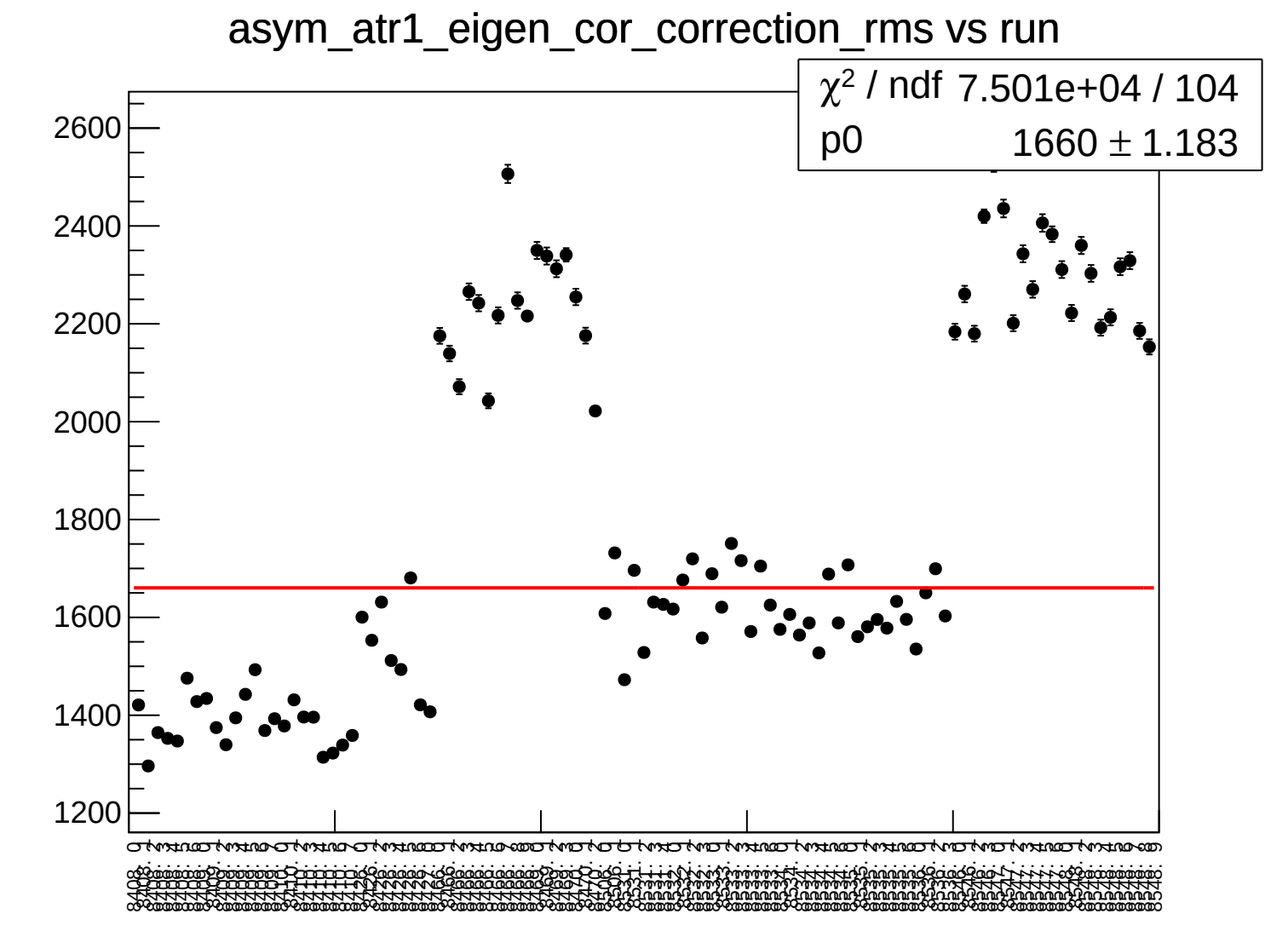

asym_atr1_cor_correction_rms vs run
χ² / ndf 7.501e+04 / 104
p0 1660 ± 1.183
2600
2400
2200
2000
1800
1600
1400
1200

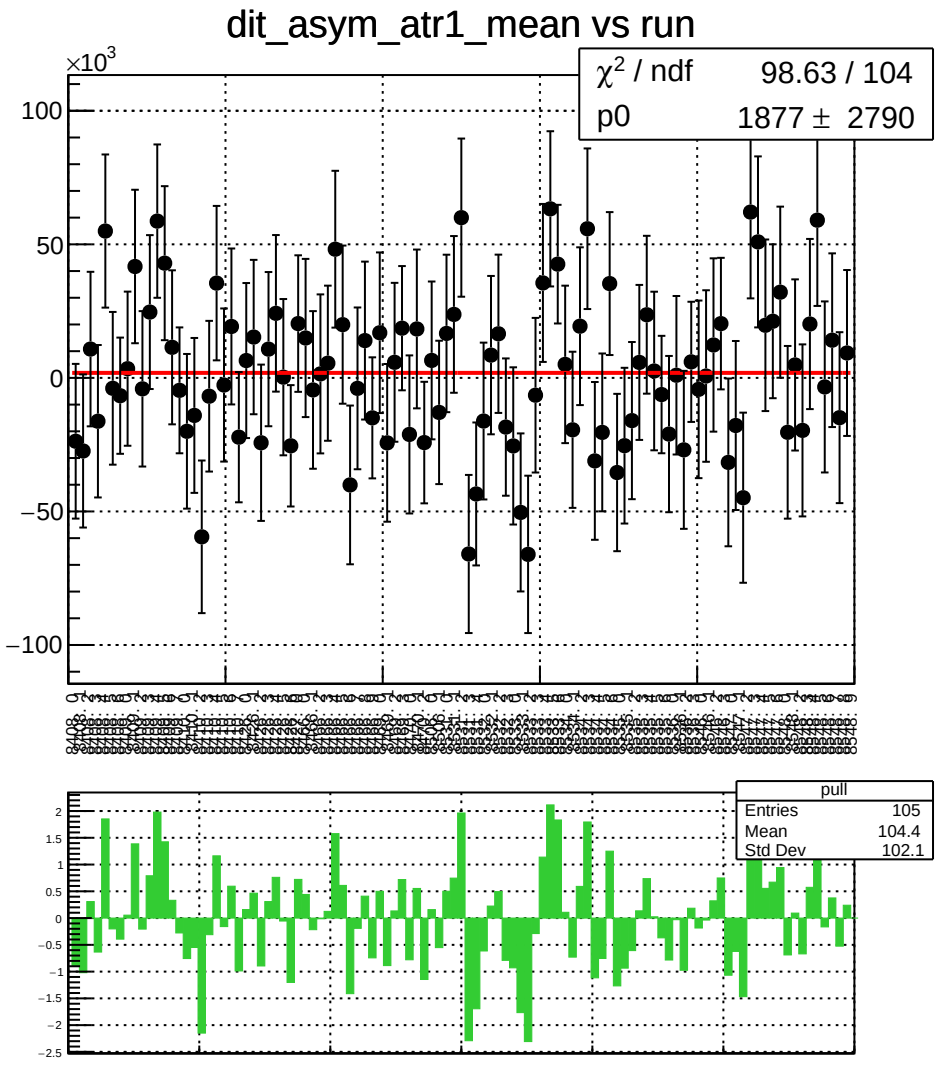

eigen_cor_asym_atr1_mean vs run
×10^3
χ^2 / ndf 97.43 / 104
p0 1975 ± 2787
100
50
0
−50
−100
pull
Entries 105
Mean 119.9
Std Dev 89.46
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

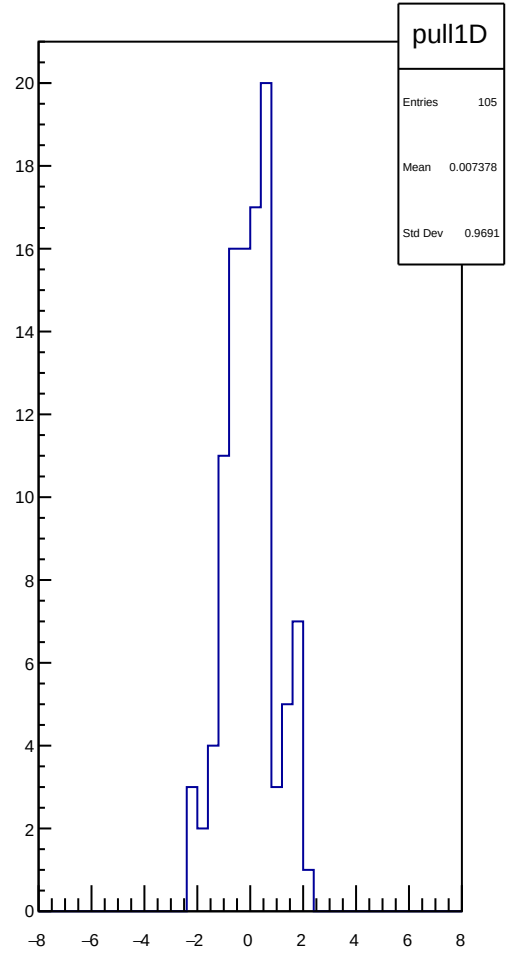

pull1D
Entries 105
Mean 0.007414
Std Dev 0.9632
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

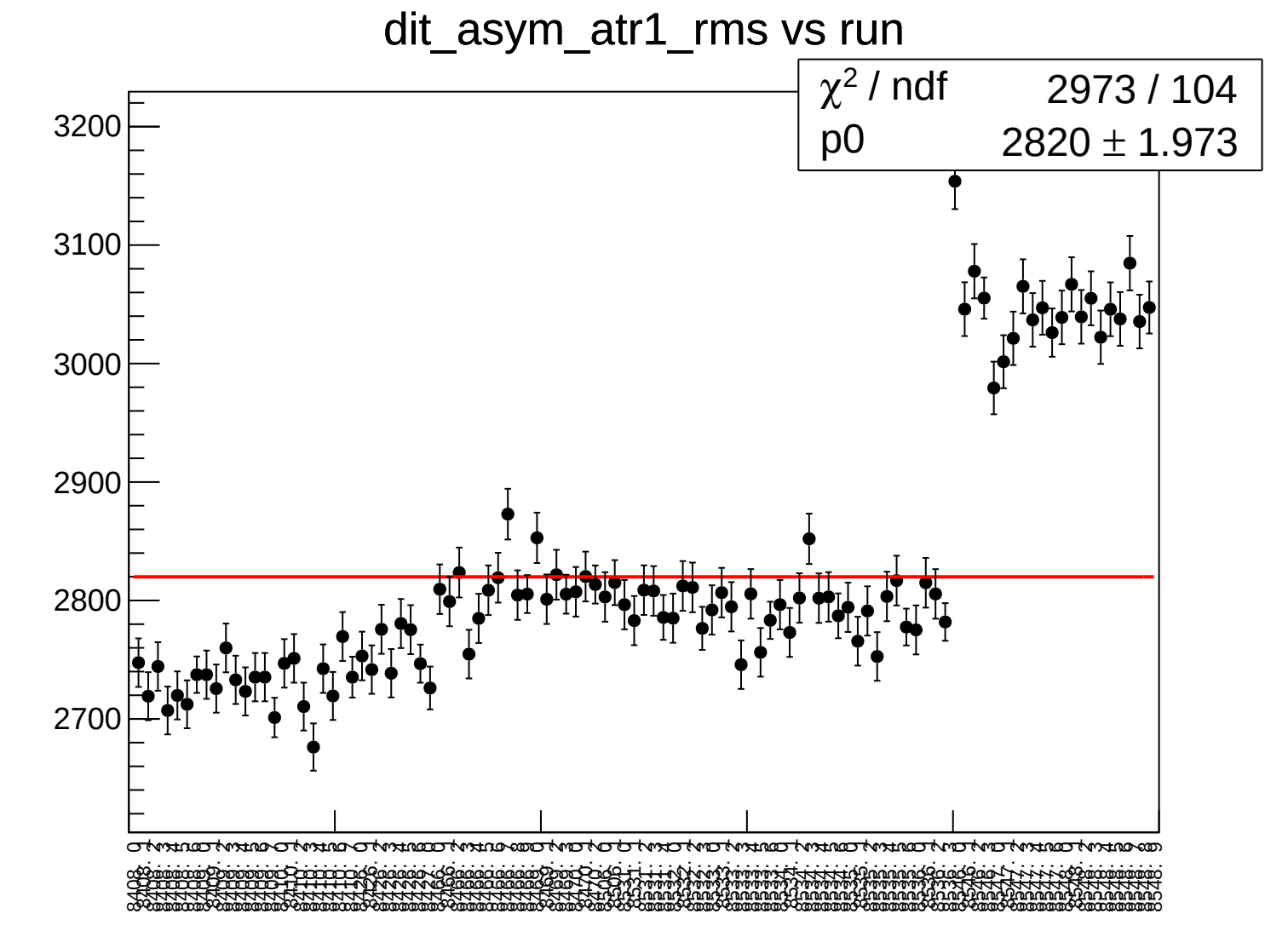

eigen_cor_asym_atr1_rms vs run
χ² / ndf 2988 / 104
p0 2817 ± 1.971
3200
3100
3000
2900
2800
2700

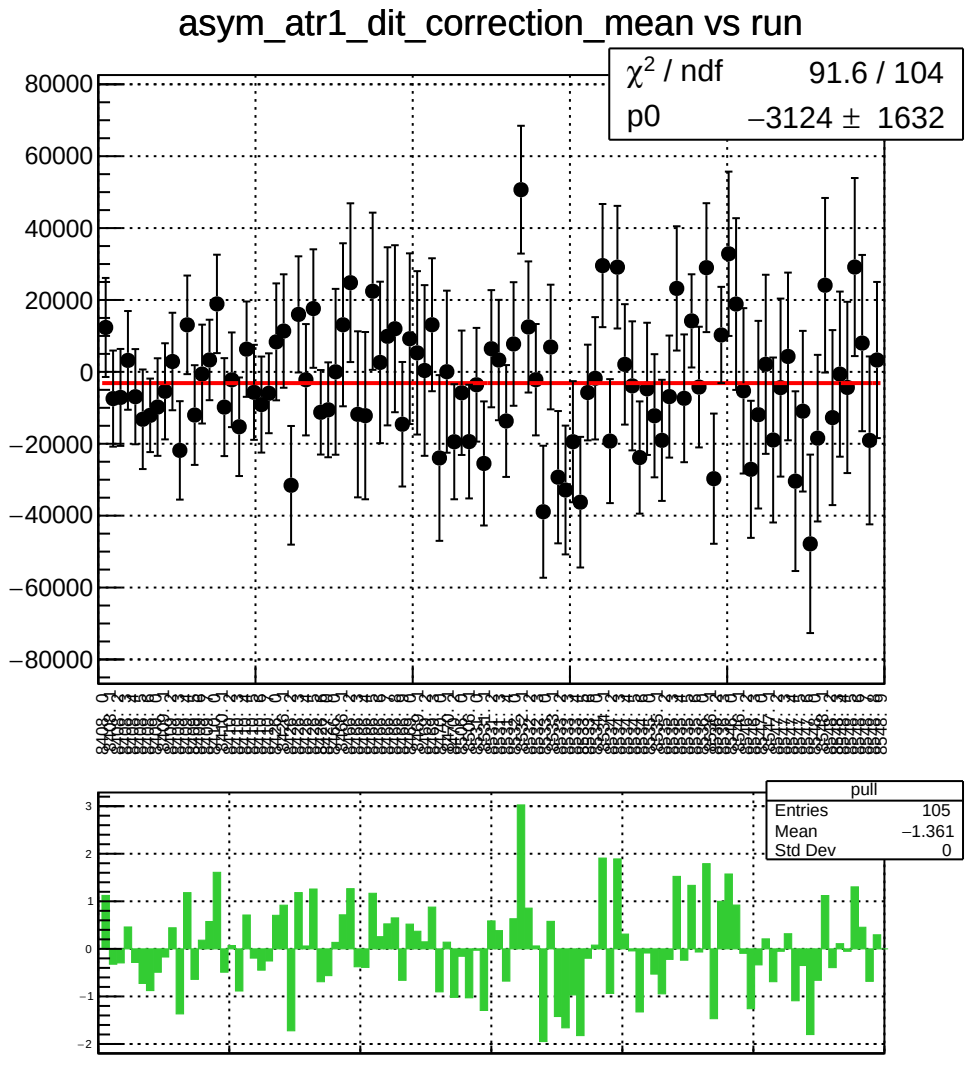

asym_atr1_eigen_cor_correction_mean vs run
χ² / ndf 91.27 / 104
p0 −2931 ± 1672
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 105
Mean 1.987
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.008167
Std Dev 0.9323
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

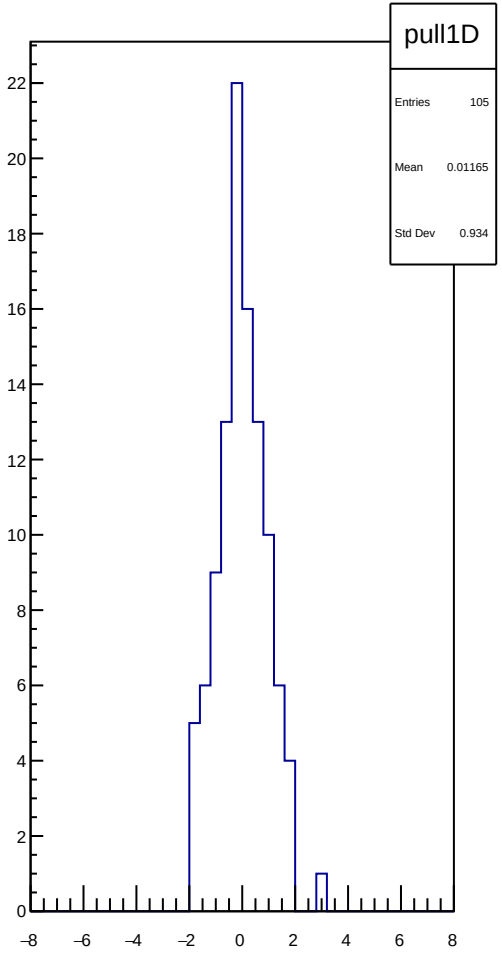

asym_atr1_eigen_cor_correction_rms vs run
χ^2 / ndf 7.501e+04 / 104
p0 1660 ± 1.183
2600
2400
2200
2000
1800
1600
1400
1200

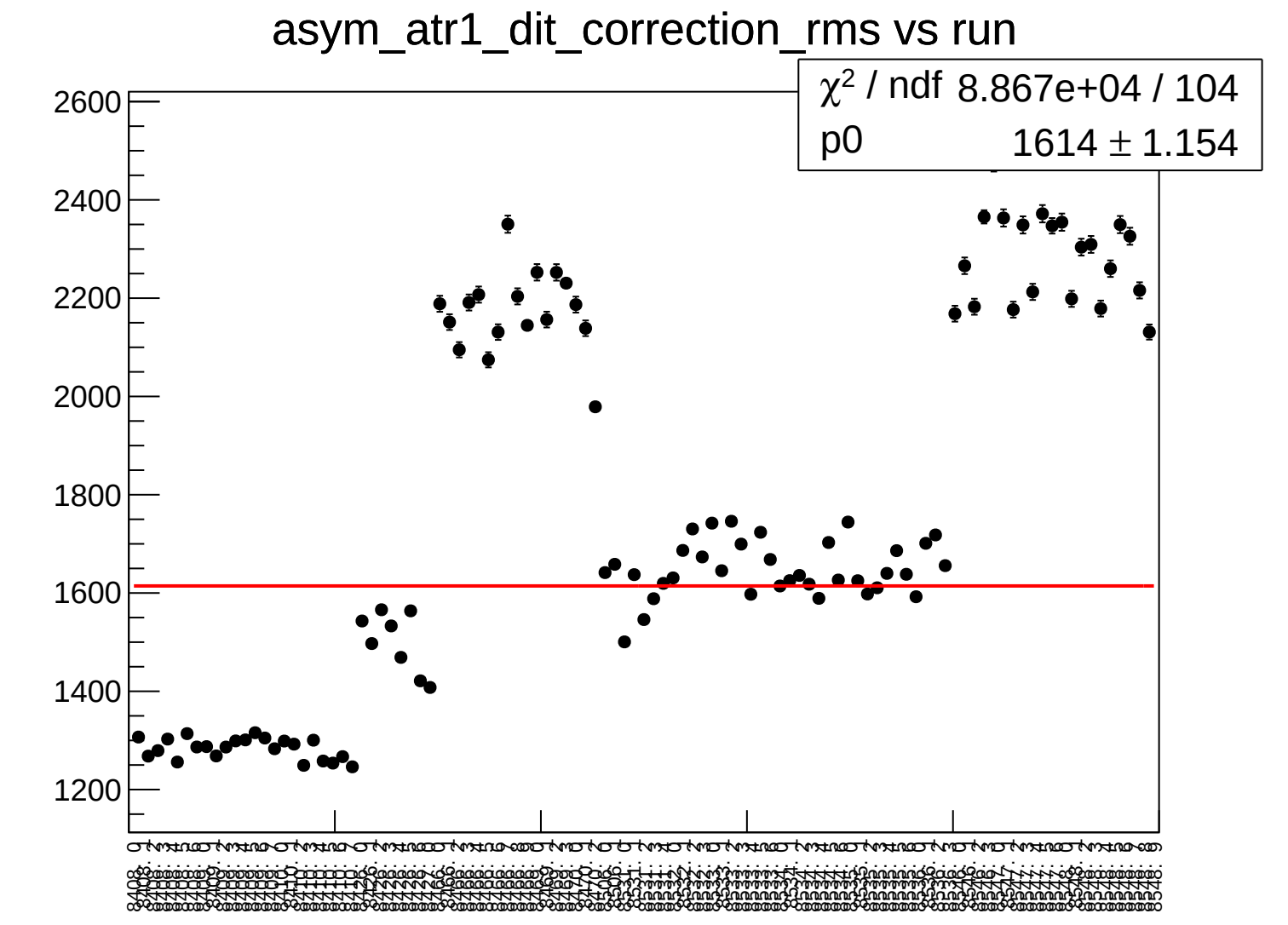

dit_asym_atr1_mean vs run
×10^3
χ^2 / ndf 98.63 / 104
p0 1877 ± 2790
100
50
0
−50
−100
pull
Entries 105
Mean 104.4
Std Dev 102.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

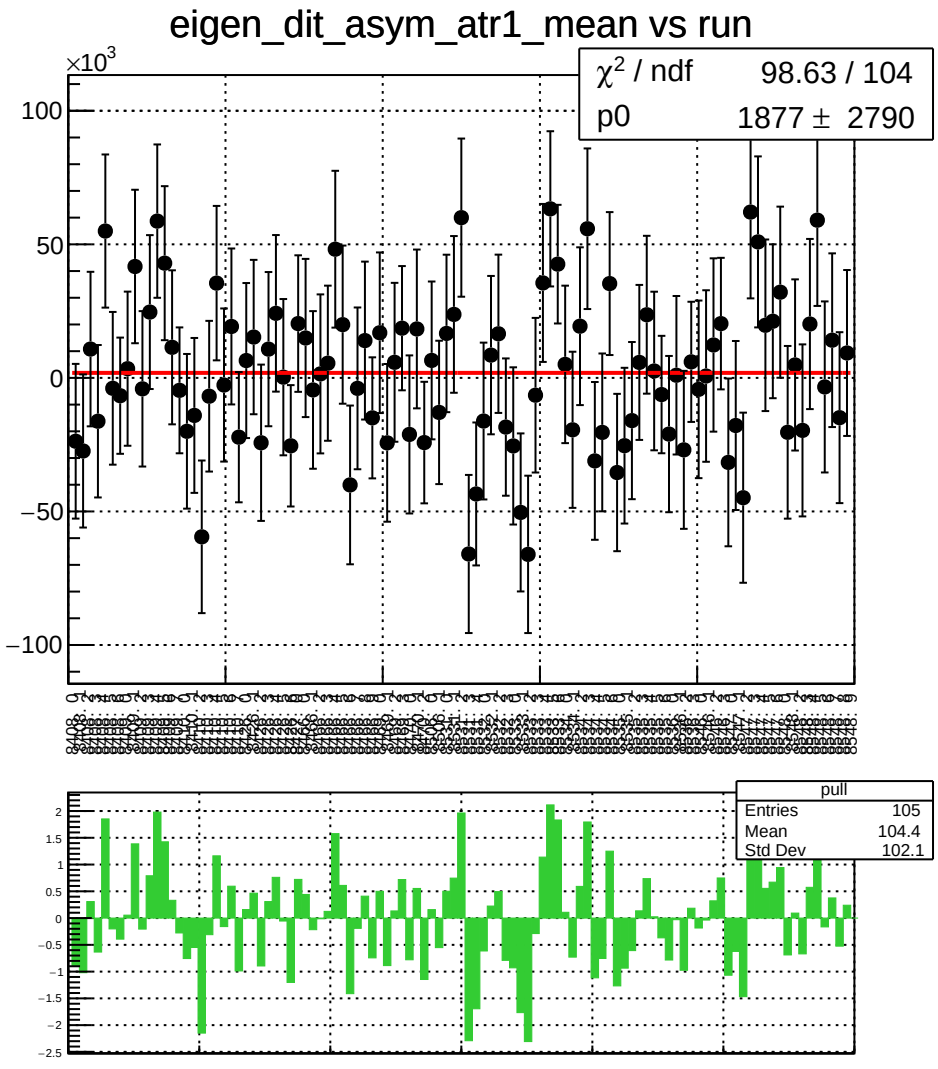

pull1D
Entries 105
Mean 0.007378
Std Dev 0.9691
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

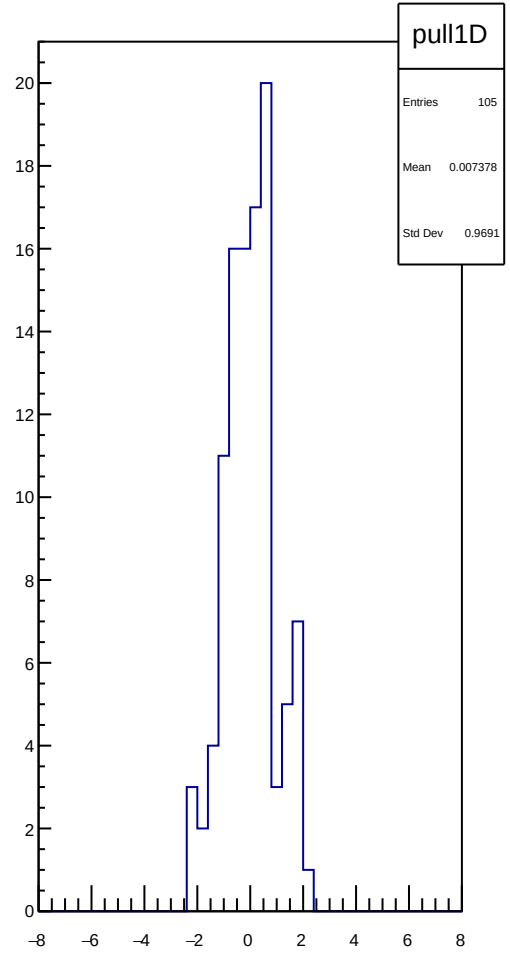

dit_asym_atr1_rms vs run
χ² / ndf 2973 / 104
p0 2820 ± 1.973
3200
3100
3000
2900
2800
2700

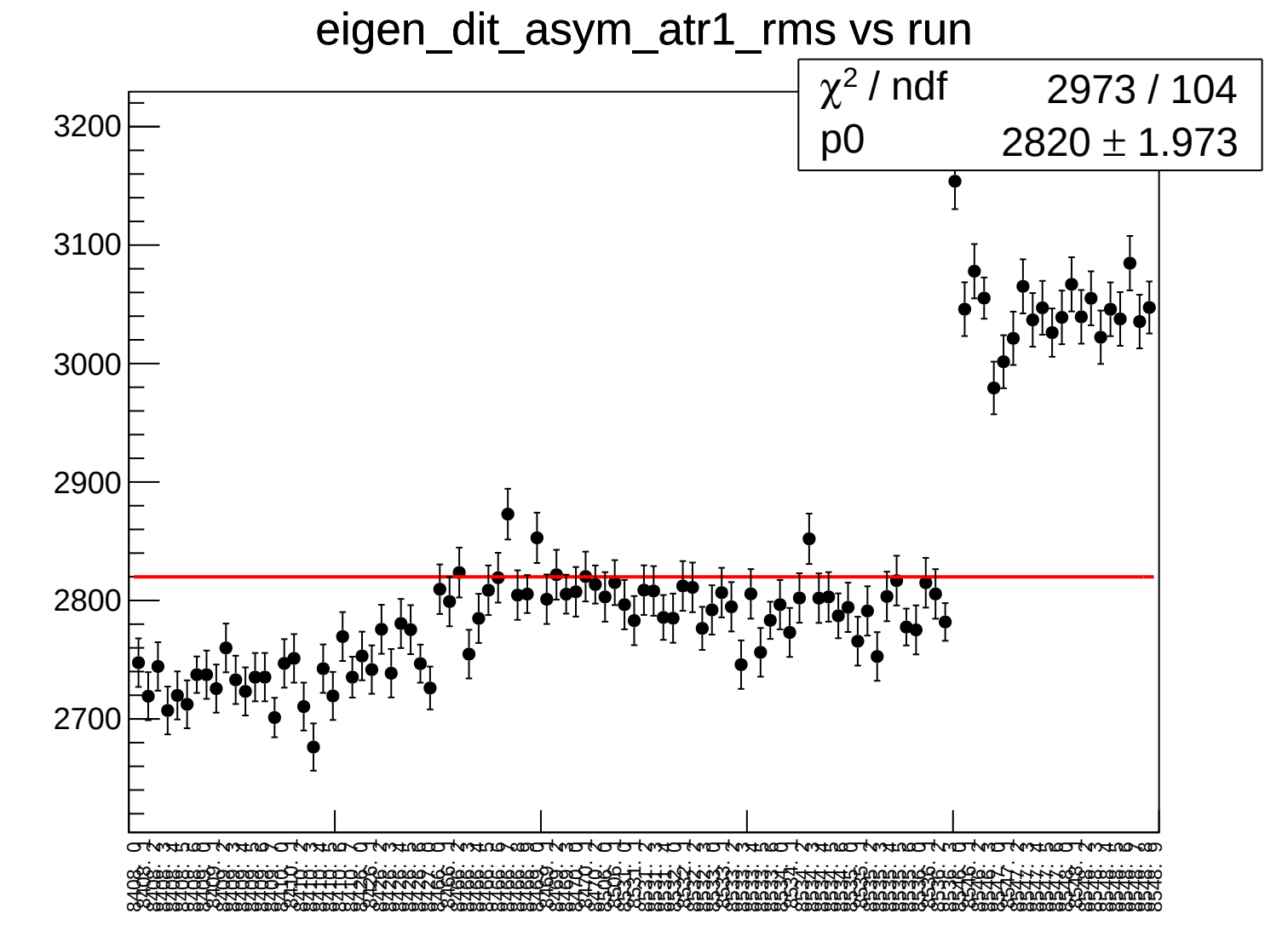

asym_atr1_dit_correction_mean vs run
χ² / ndf 91.6 / 104
p0 −3124 ± 1632
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 105
Mean −1.361
Std Dev 0
3
2
1
0
−1
−2

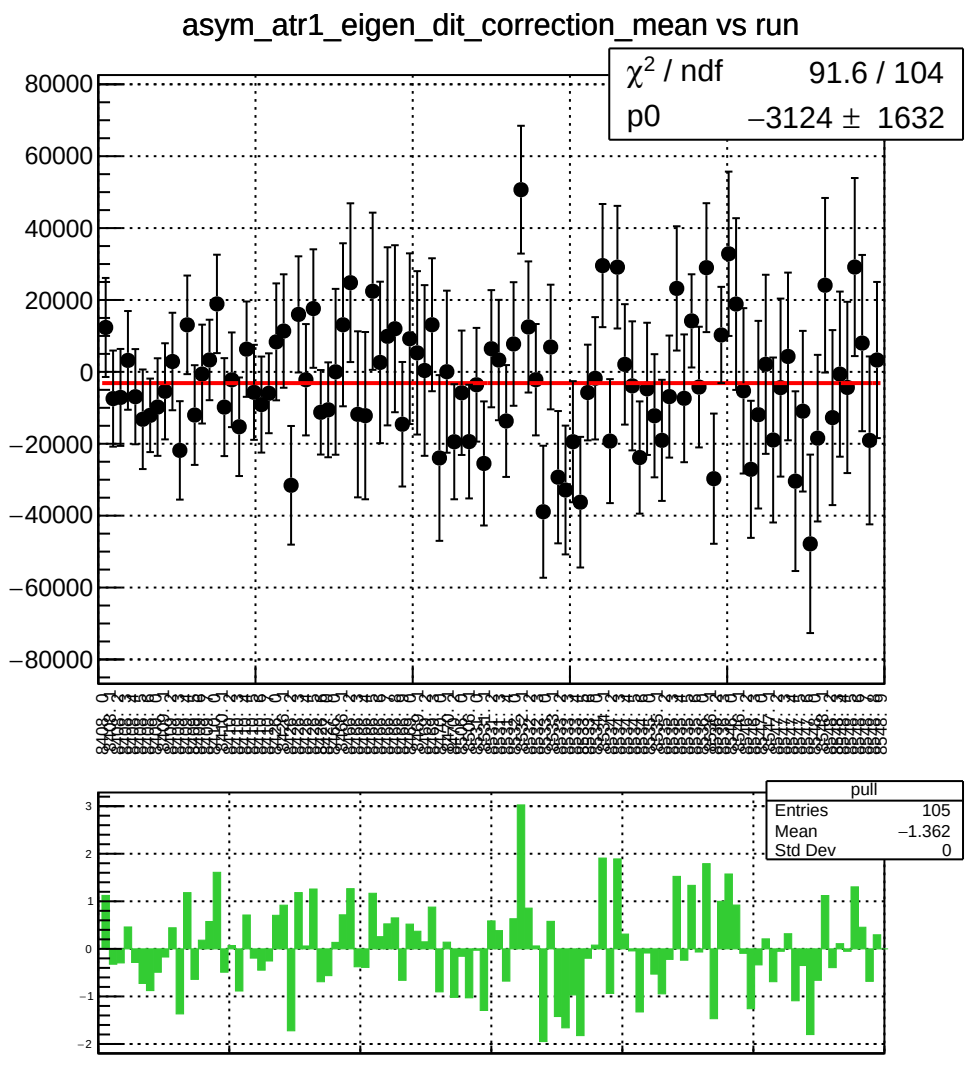

pull1D
Entries 105
Mean 0.01165
Std Dev 0.934
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

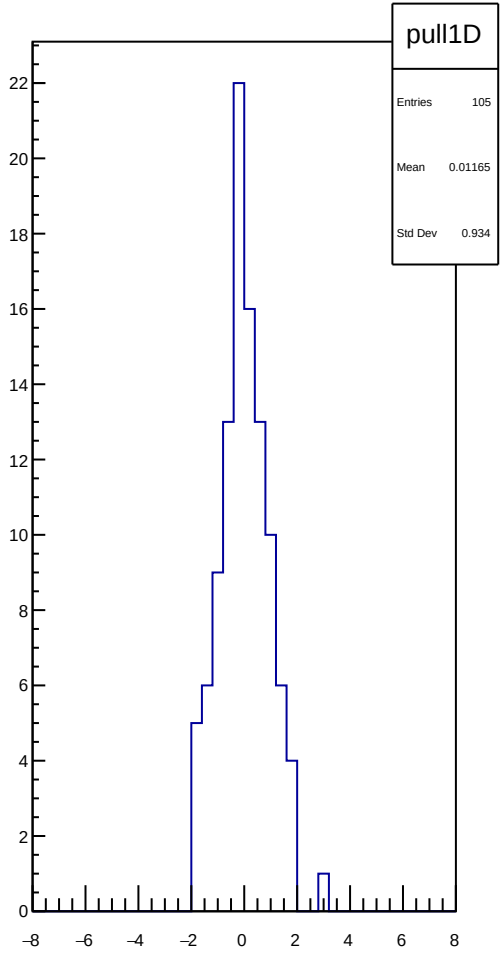

asym_atr1_dit_correction_rms vs run
χ² / ndf 8.867e+04 / 104
p0 1614 ± 1.154
2600
2400
2200
2000
1800
1600
1400
1200

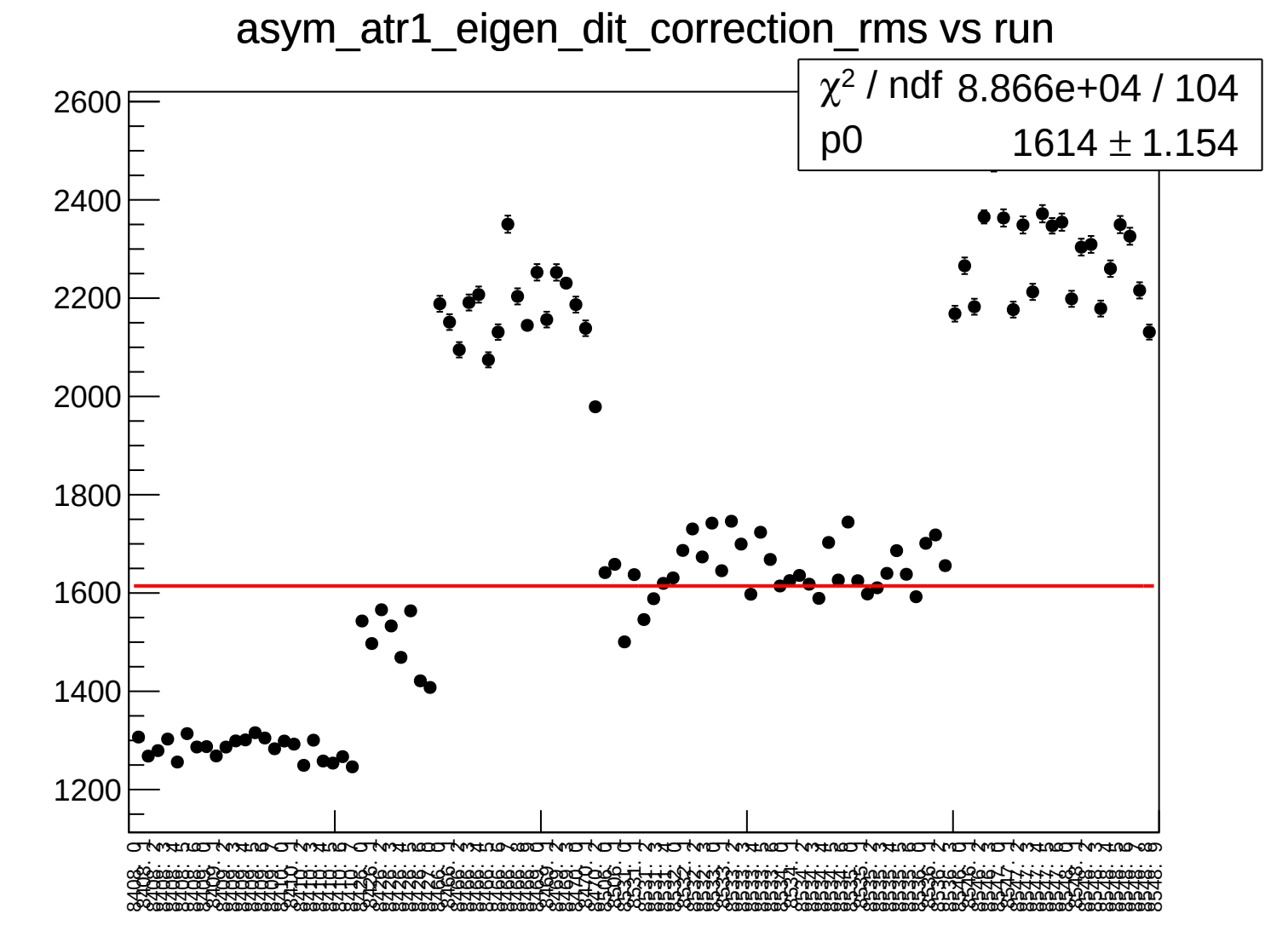

eigen_dit_asym_atr1_mean vs run
×10^3
χ² / ndf 98.63 / 104
p0 1877 ± 2790
100
50
0
−50
−100
pull
Entries 105
Mean 104.4
Std Dev 102.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

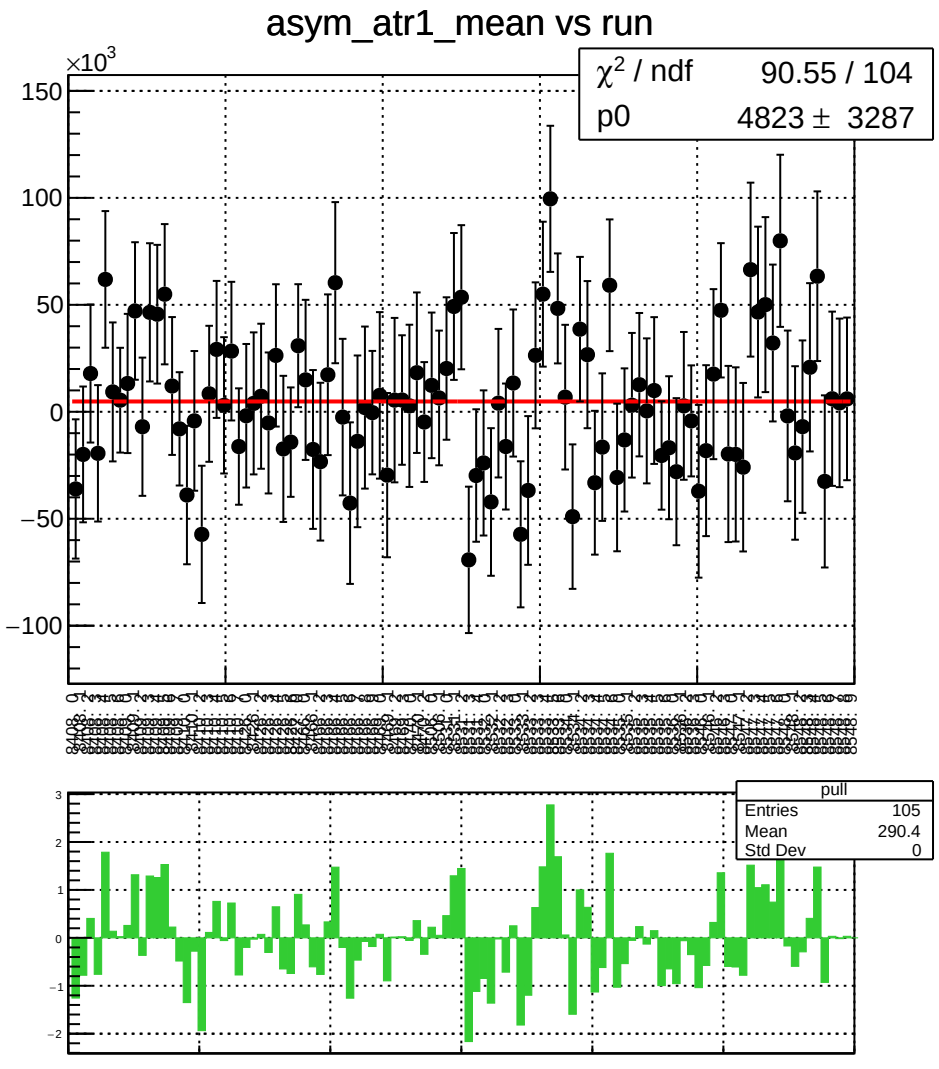

pull1D
Entries 105
Mean 0.007378
Std Dev 0.9691
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

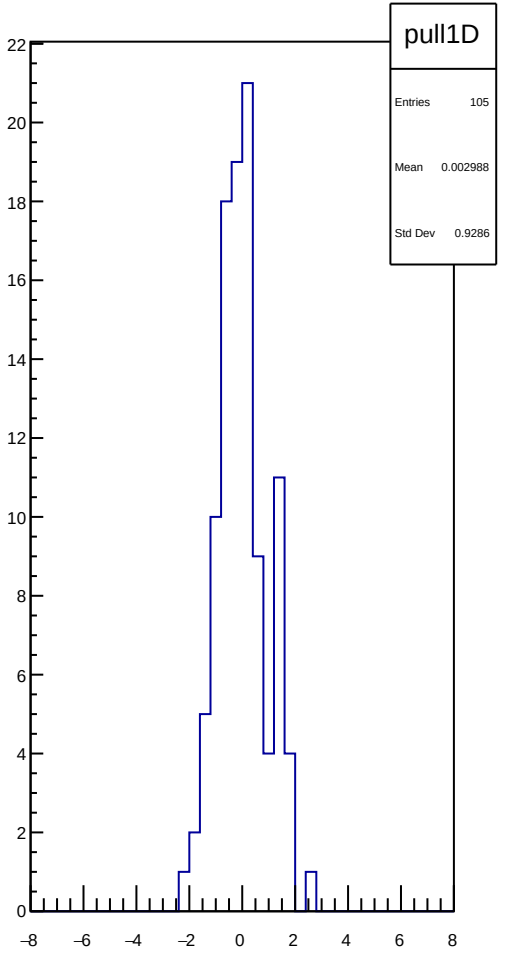

eigen_dit_asym_atr1_rms vs run
χ² / ndf 2973 / 104
p0 2820 ± 1.973
3200
3100
3000
2900
2800
2700

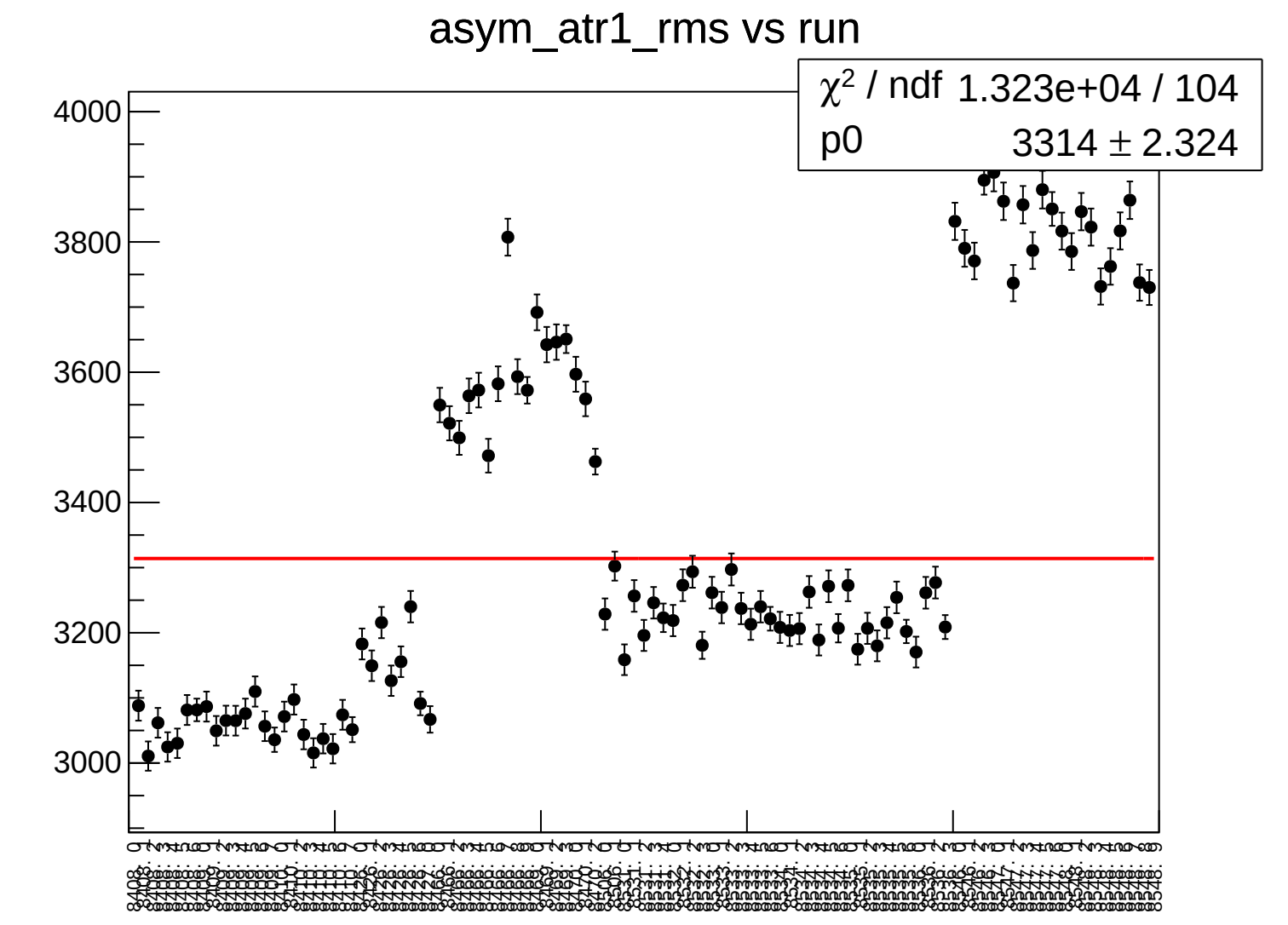

asym_atr1_eigen_dit_correction_mean vs run
χ² / ndf 91.6 / 104
p0 −3124 ± 1632
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 105
Mean −1.362
Std Dev 0
3
2
1
0
−1
−2

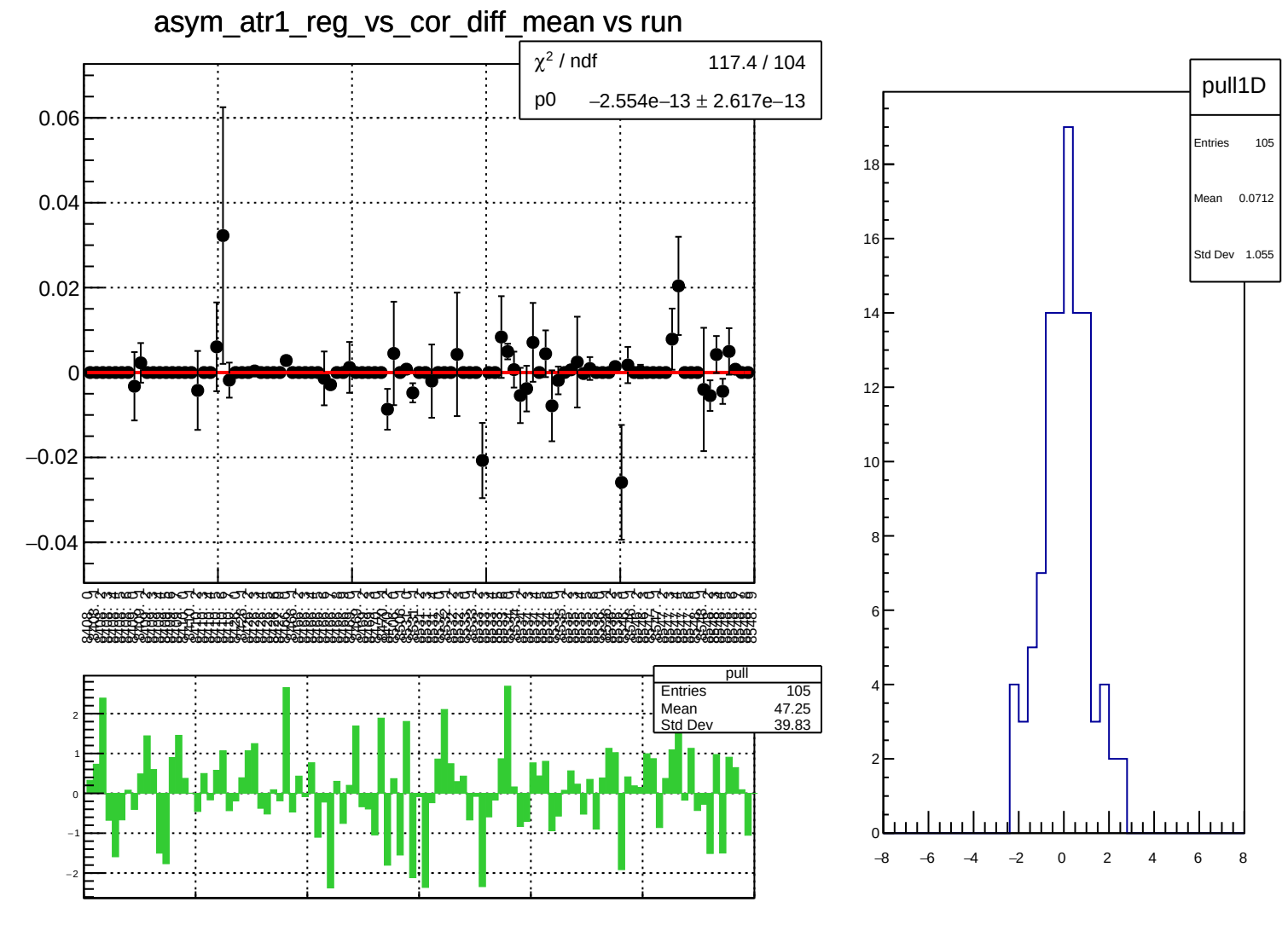

pull1D
Entries 105
Mean 0.01165
Std Dev 0.934
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

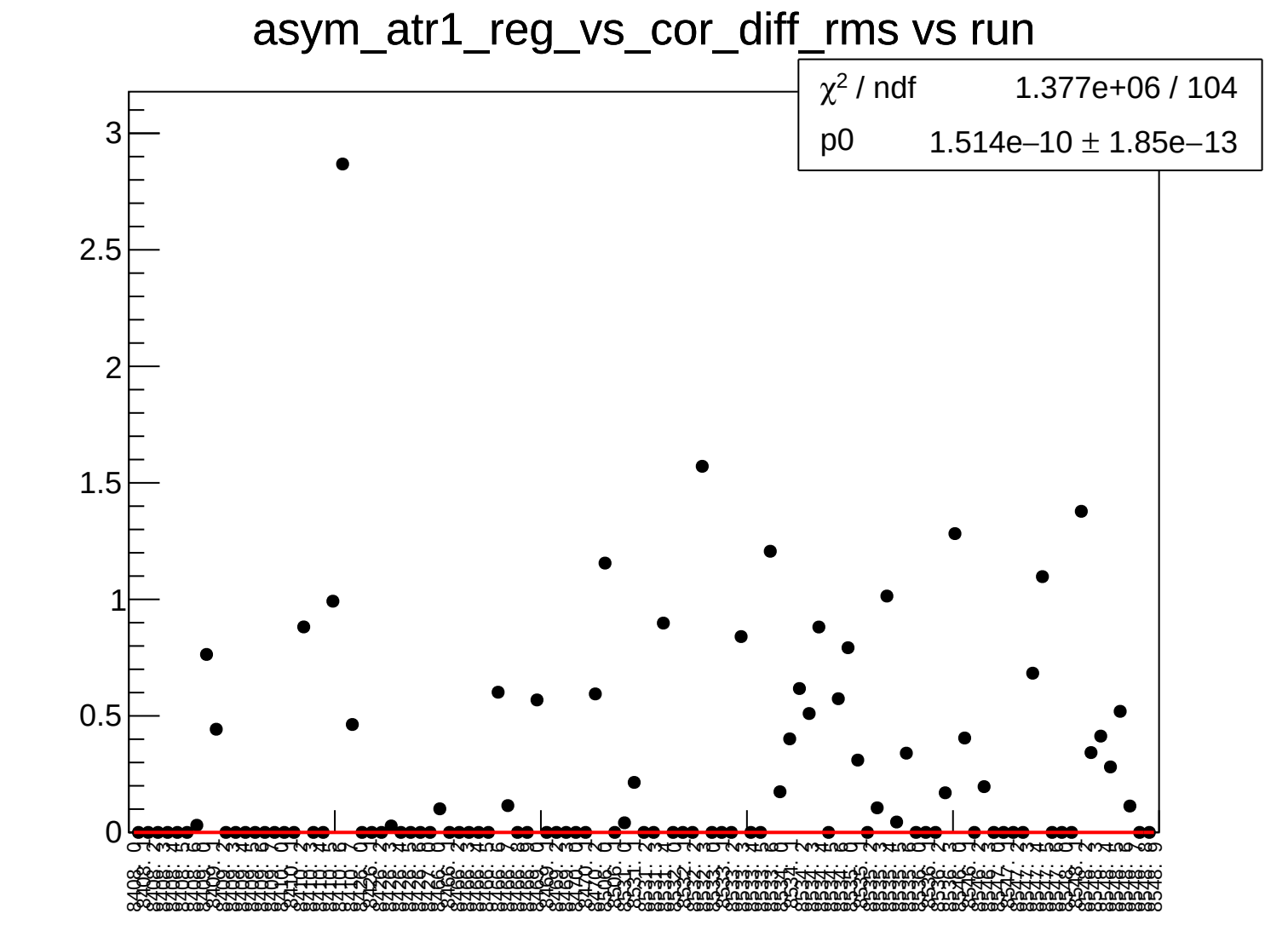

asym_atr1_eigen_dit_correction_rms vs run
χ² / ndf 8.866e+04 / 104
p0 1614 ± 1.154
2600
2400
2200
2000
1800
1600
1400
1200

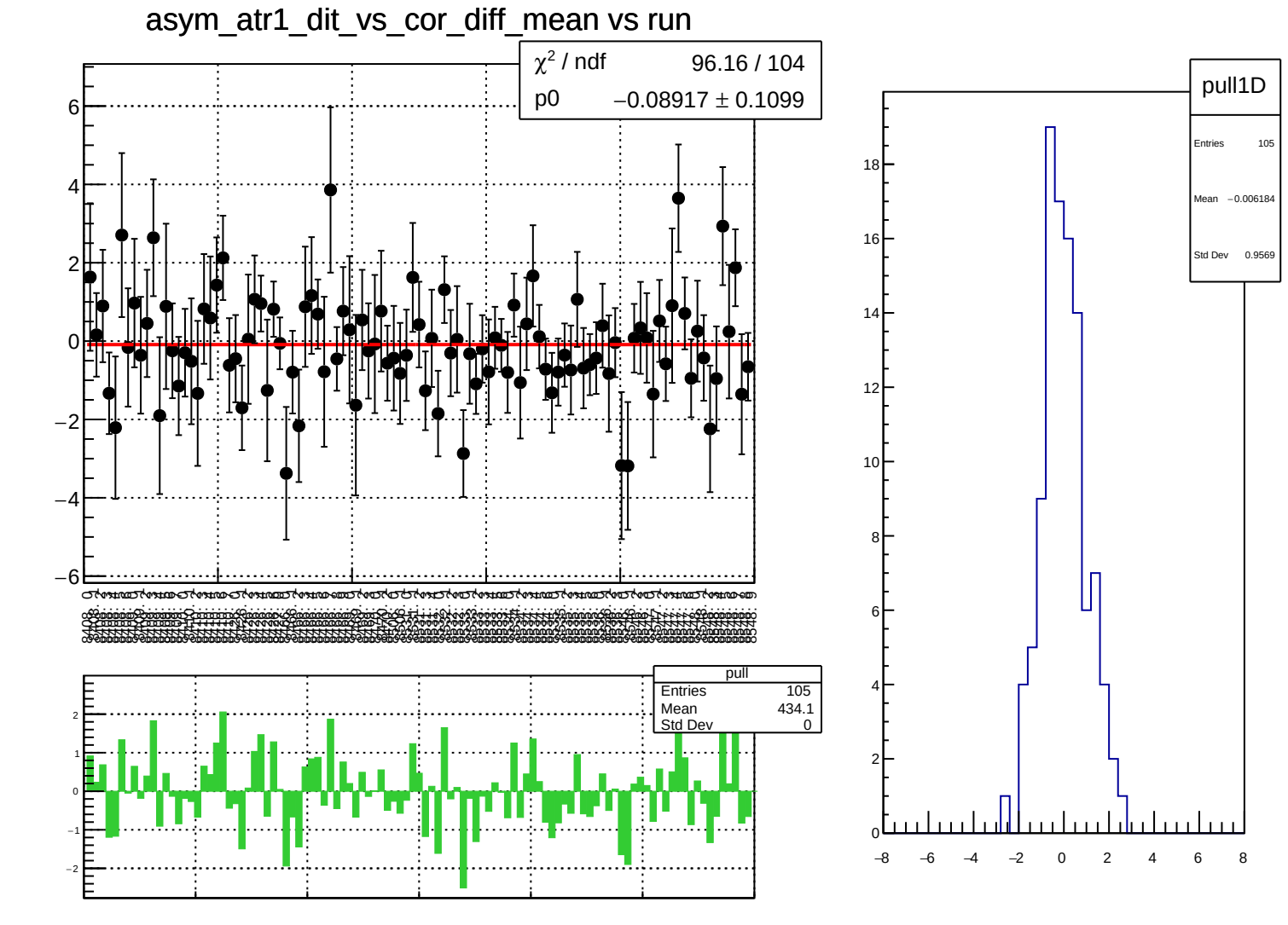

asym_atr1_mean vs run
×10^3
χ^2 / ndf 90.55 / 104
p0 4823 ± 3287
150
100
50
0
−50
−100
pull
Entries 105
Mean 290.4
Std Dev 0
3
2
1
0
−1
−2

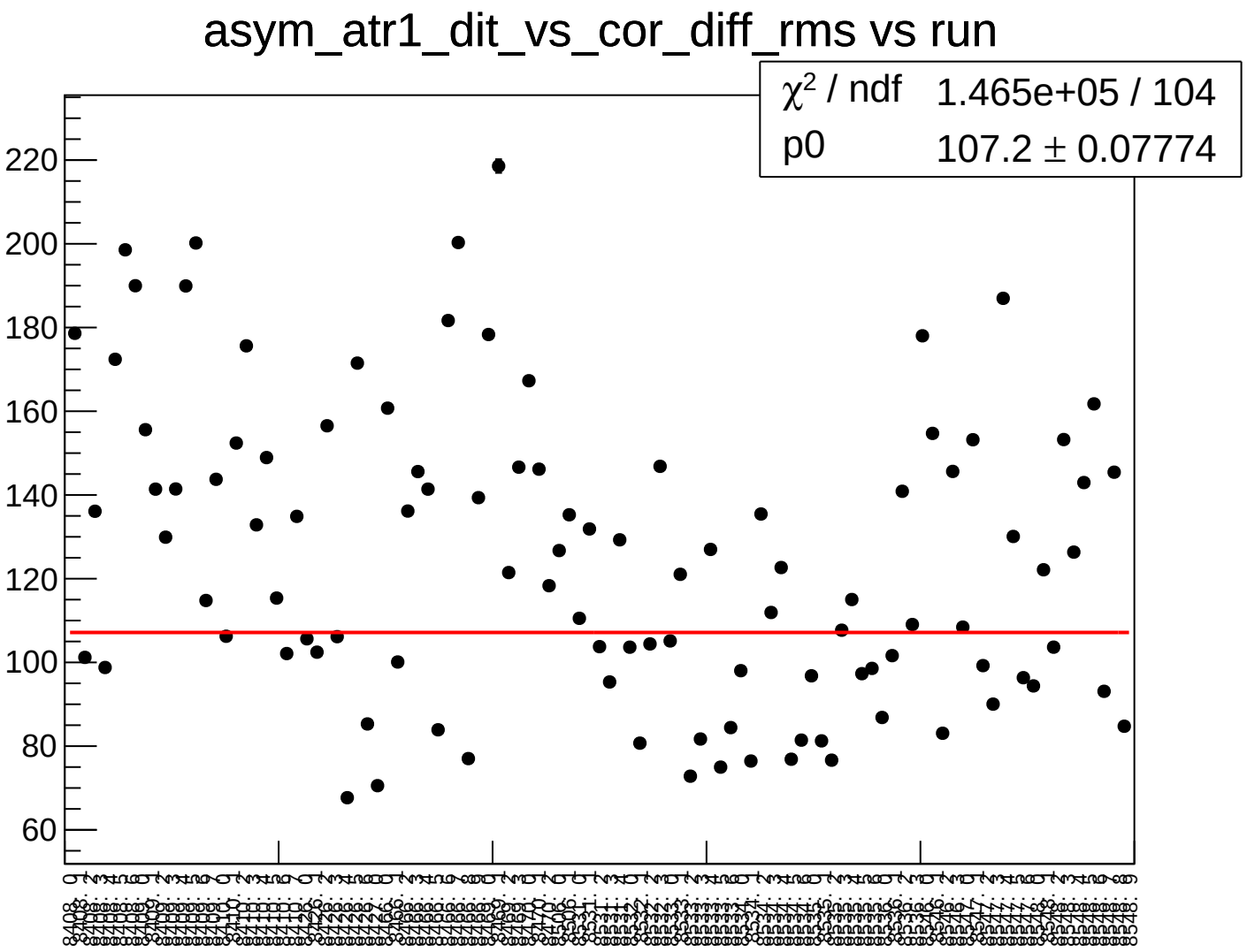

pull1D
Entries 105
Mean 0.002988
Std Dev 0.9286
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

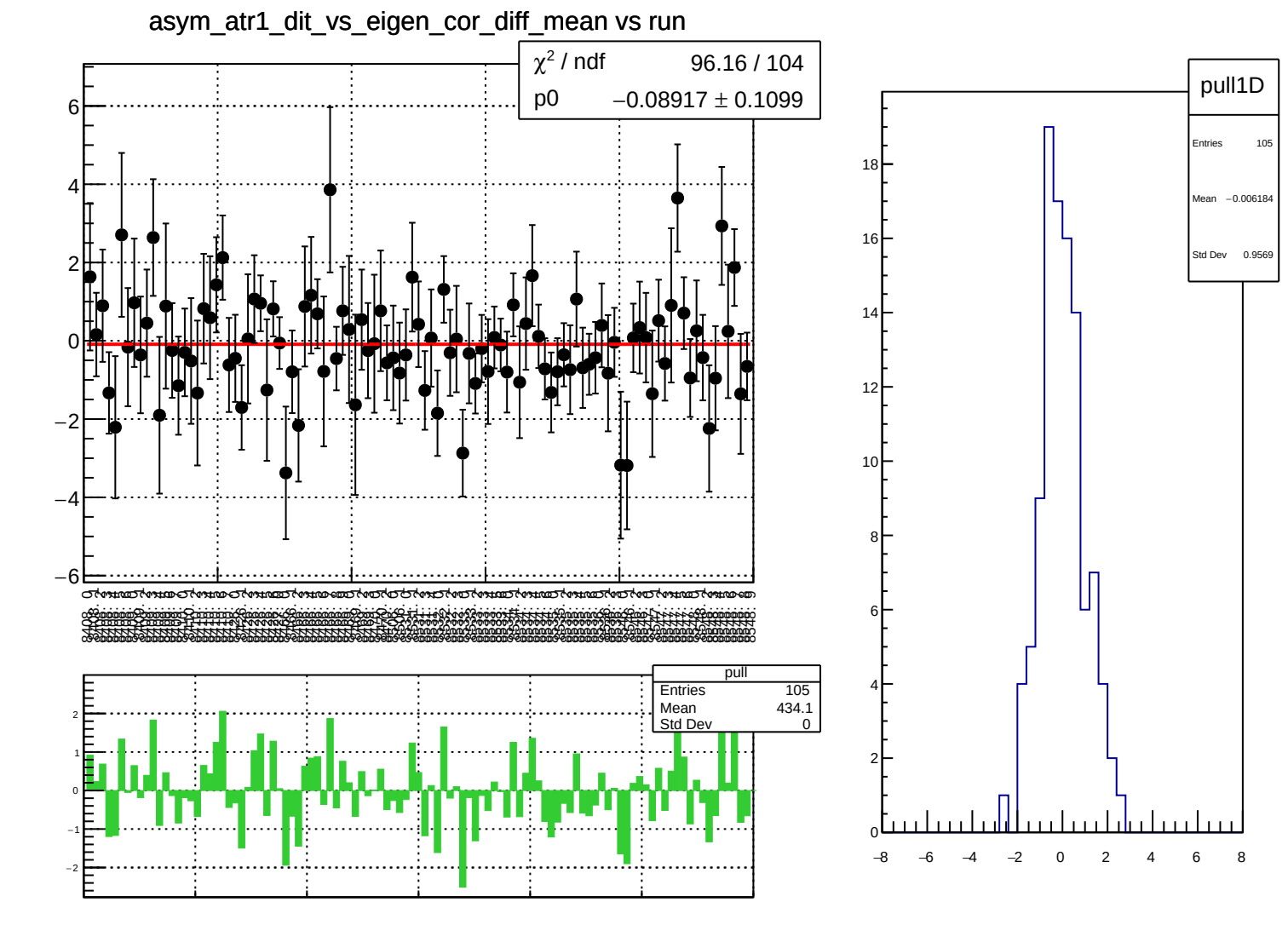

asym_atr1_rms vs run
χ² / ndf 1.323e+04 / 104
p0 3314 ± 2.324
4000
3800
3600
3400
3200
3000

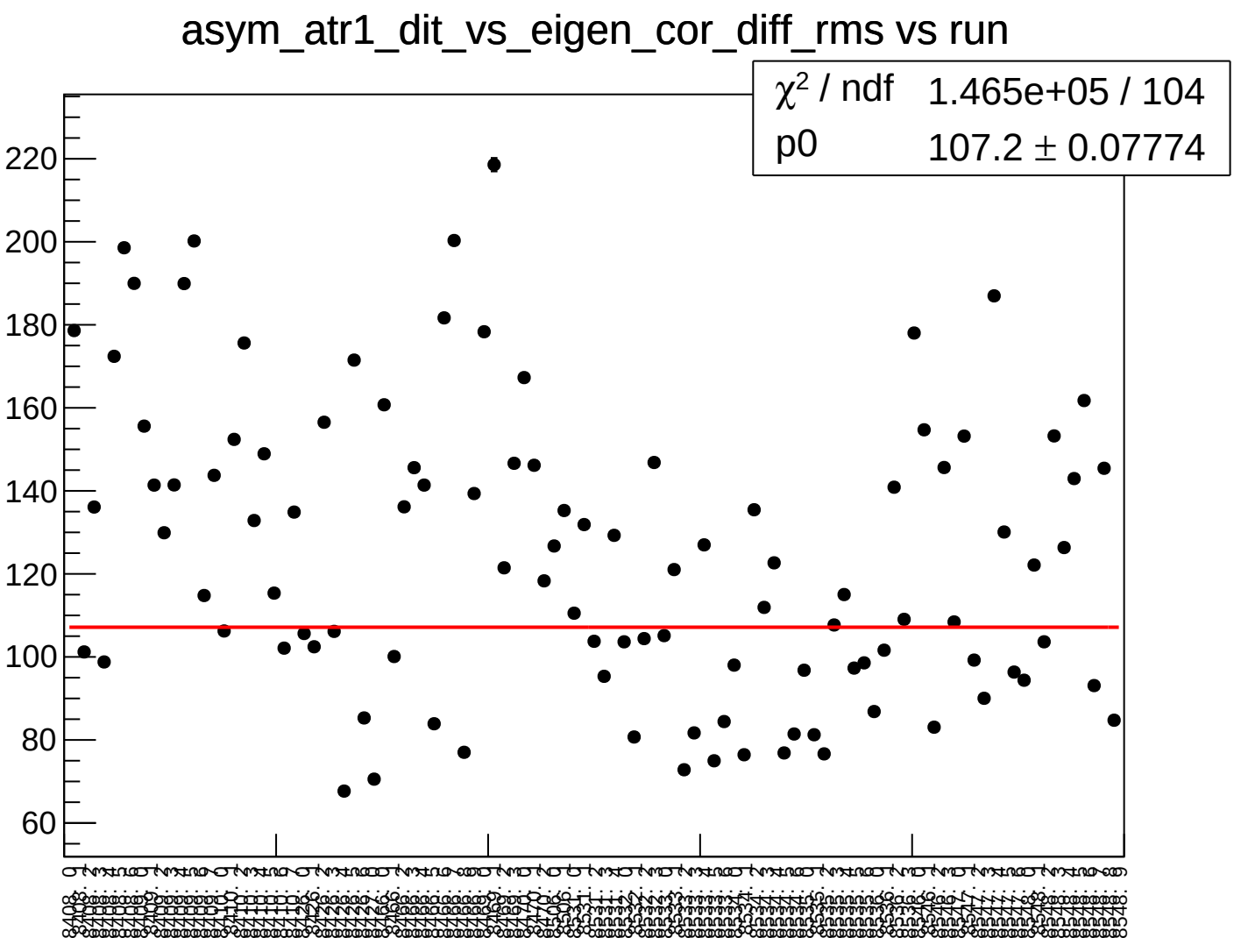

asym_atr1_reg_vs_cor_diff_mean vs run
χ² / ndf 117.4 / 104
p0 −2.554e−13 ± 2.617e−13
0.06
0.04
0.02
0
−0.02
−0.04
pull
Entries 105
Mean 47.25
Std Dev 39.83
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.0712
Std Dev 1.055
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

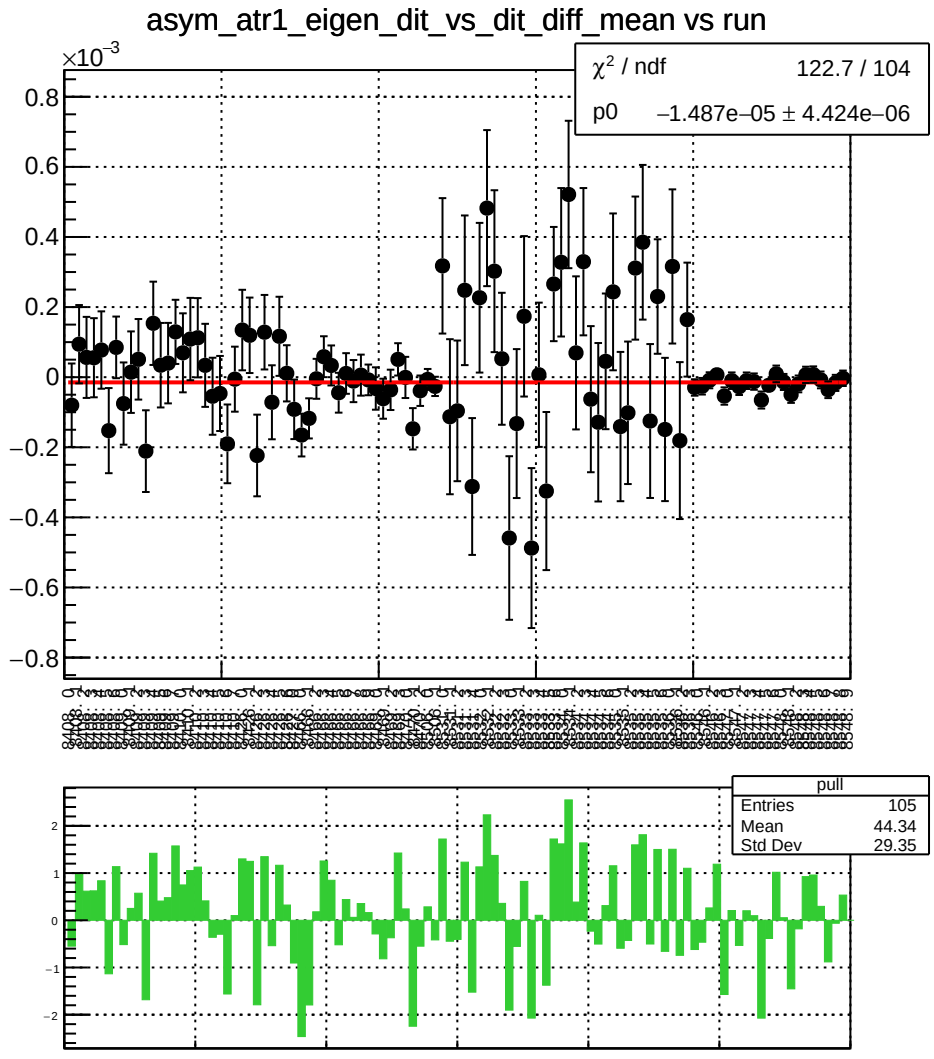

asym_atr1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.377e+06 / 104
p0 1.514e−10 ± 1.85e−13
3
2.5
2
1.5
1
0.5
0

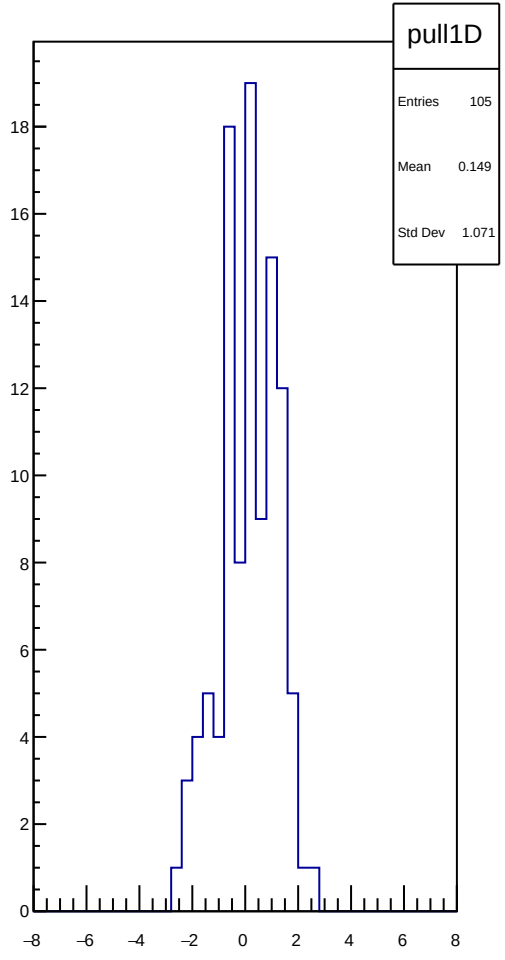

asym_atr1_dit_vs_cor_diff_mean vs run
χ² / ndf 96.16 / 104
p0 −0.08917 ± 0.1099
pull
Entries 105
Mean 434.1
Std Dev 0
pull1D
Entries 105
Mean −0.006184
Std Dev 0.9569

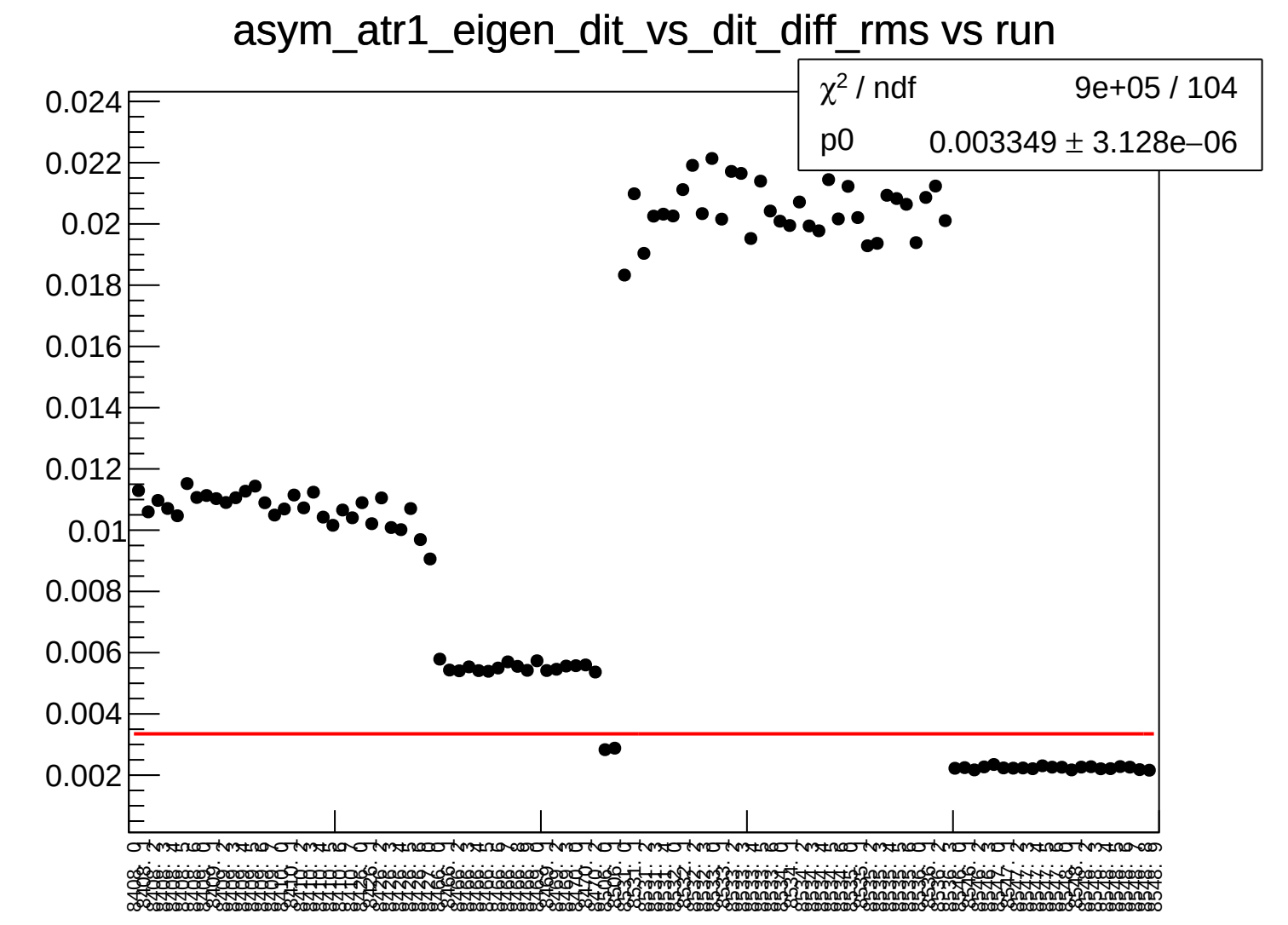

asym_atr1_dit_vs_cor_diff_rms vs run
χ² / ndf 1.465e+05 / 104
p0 107.2 ± 0.07774
220
200
180
160
140
120
100
80
60

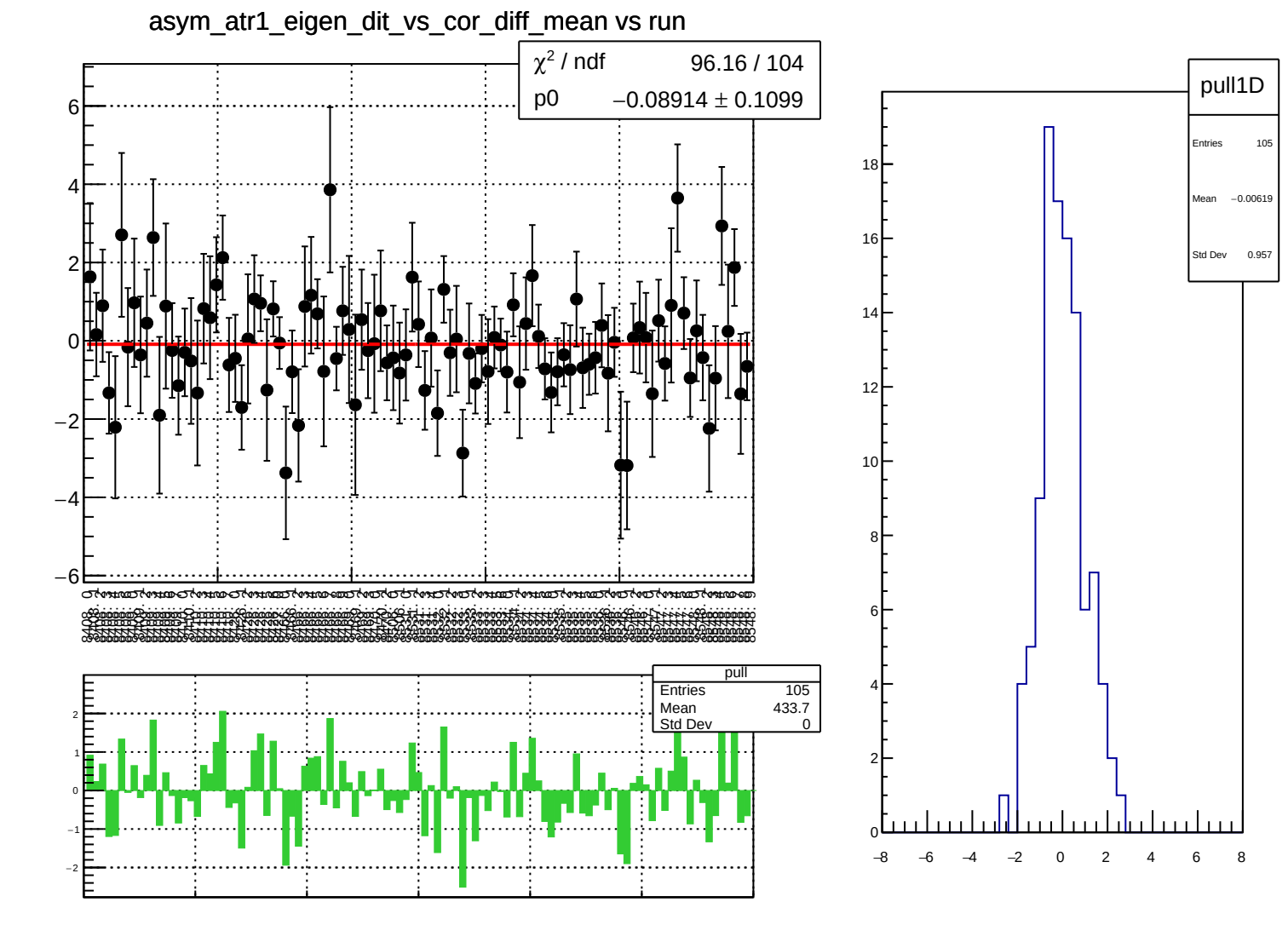

asym_atr1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.16 / 104
p0 −0.08917 ± 0.1099
pull
Entries 105
Mean 434.1
Std Dev 0
pull1D
Entries 105
Mean −0.006184
Std Dev 0.9569

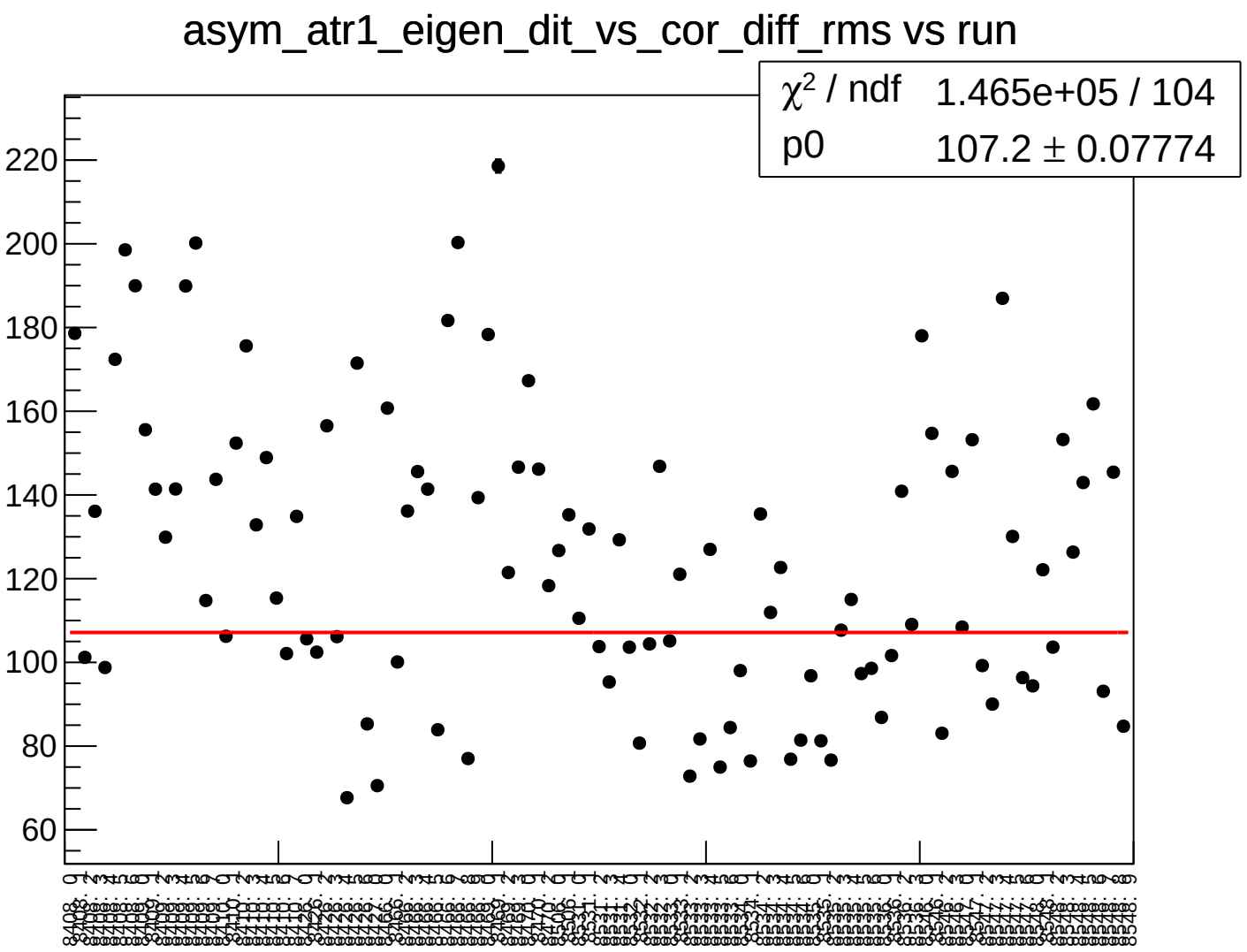

asym_atr1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.465e+05 / 104
p0 107.2 ± 0.07774
220
200
180
160
140
120
100
80
60

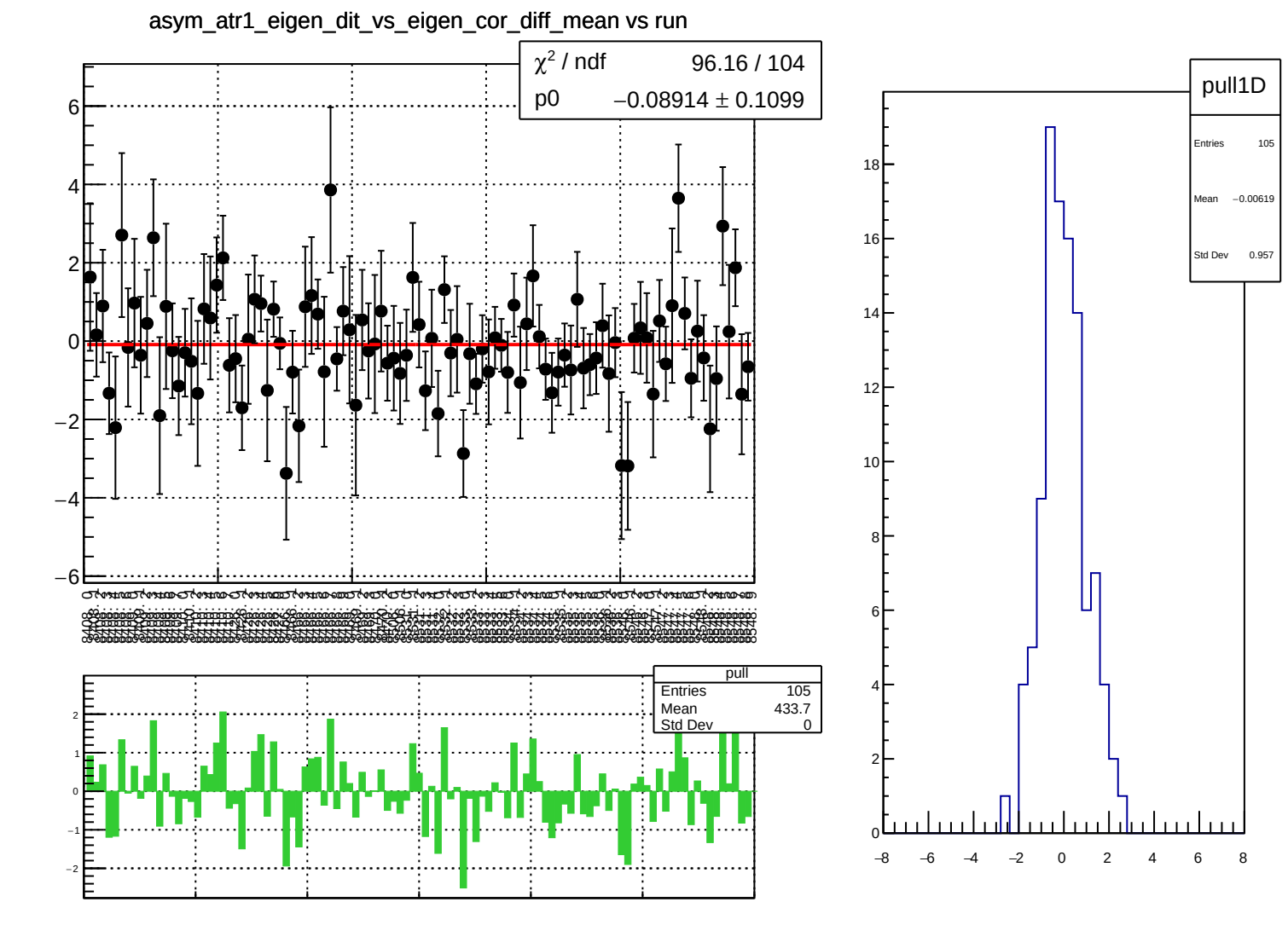

asym_atr1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 122.7 / 104
p0 −1.487e−05 ± 4.424e−06
pull
Entries 105
Mean 44.34
Std Dev 29.35

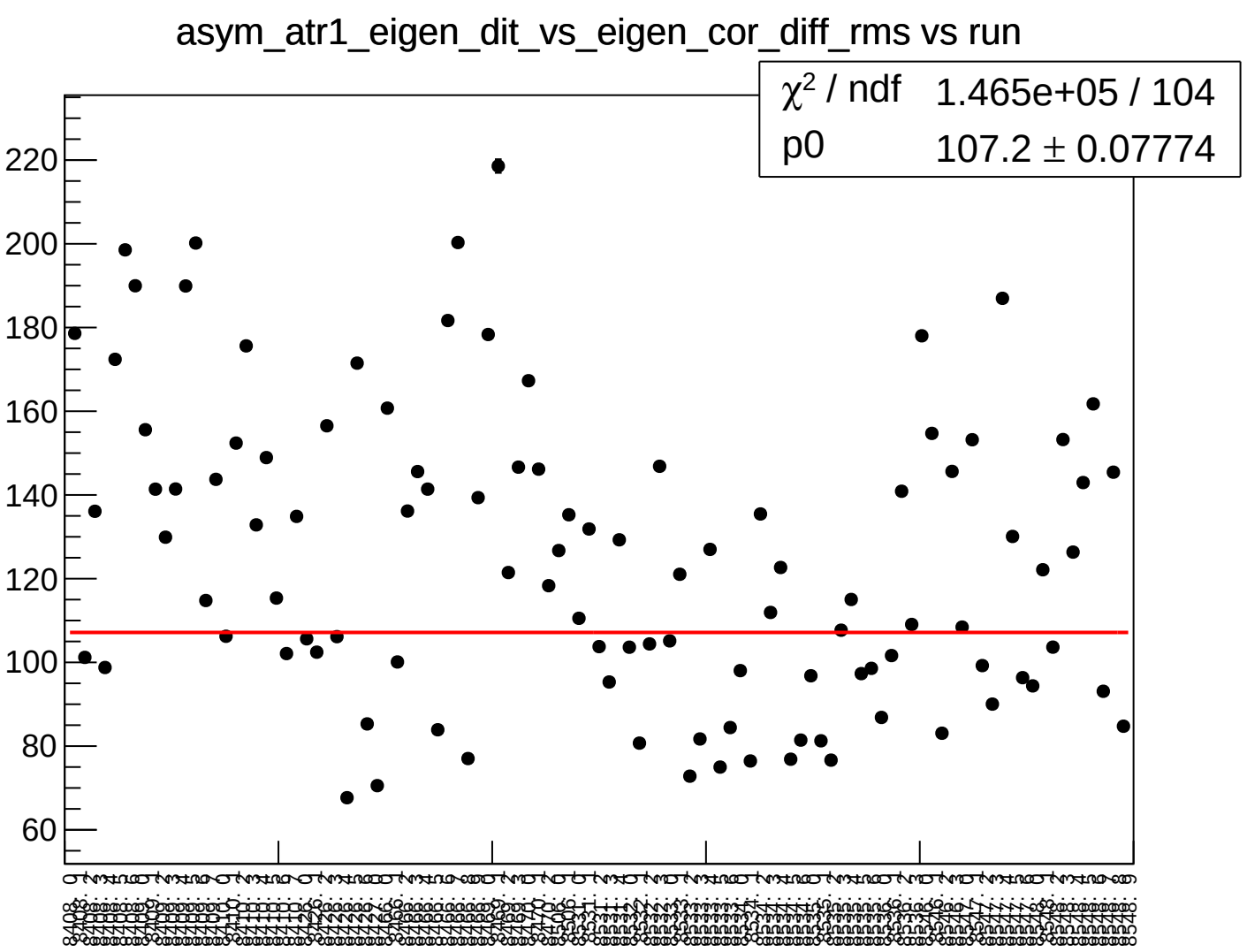

pull1D
Entries 105
Mean 0.149
Std Dev 1.071

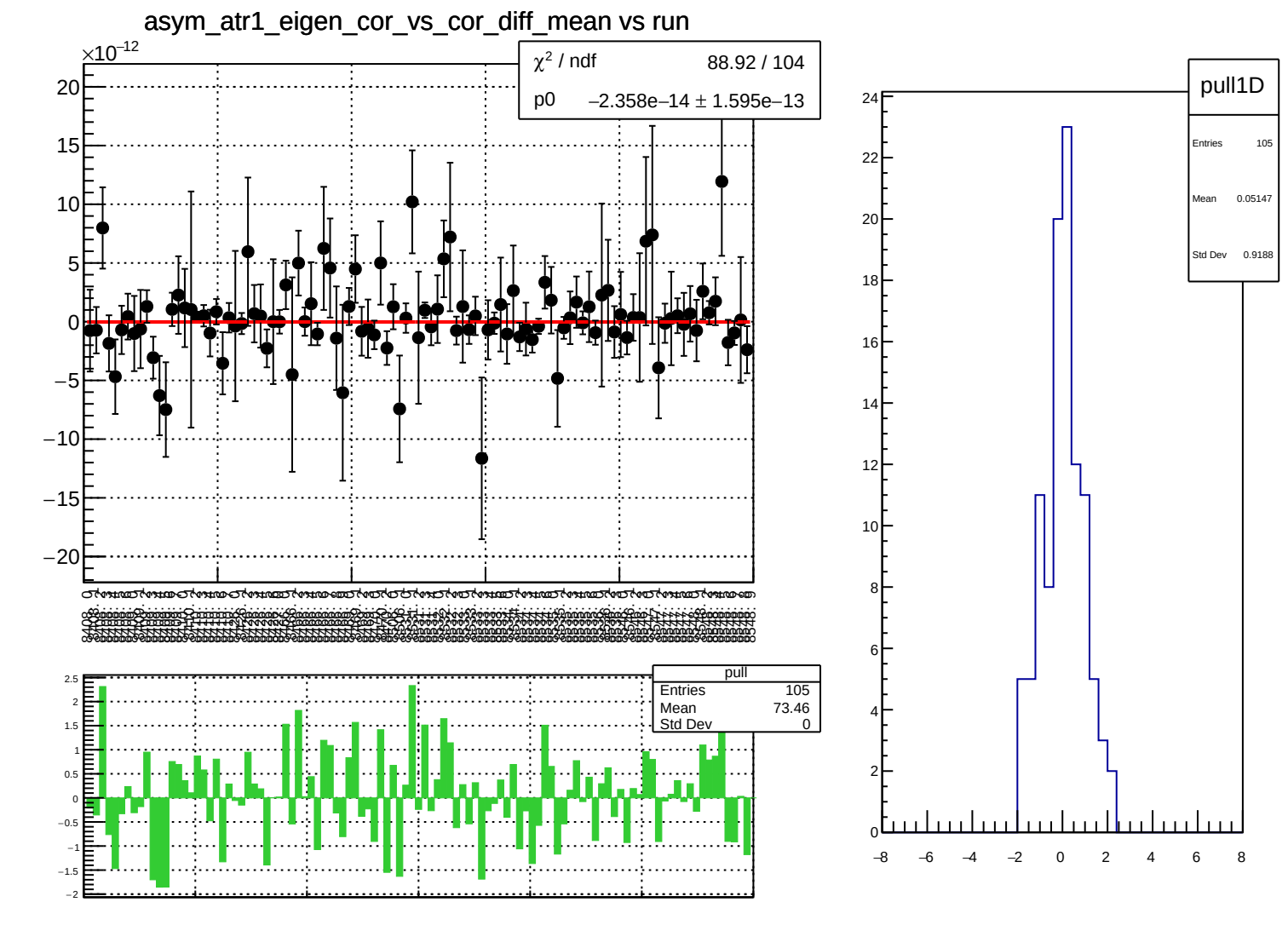

asym_atr1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9e+05 / 104
p0 0.003349 ± 3.128e−06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

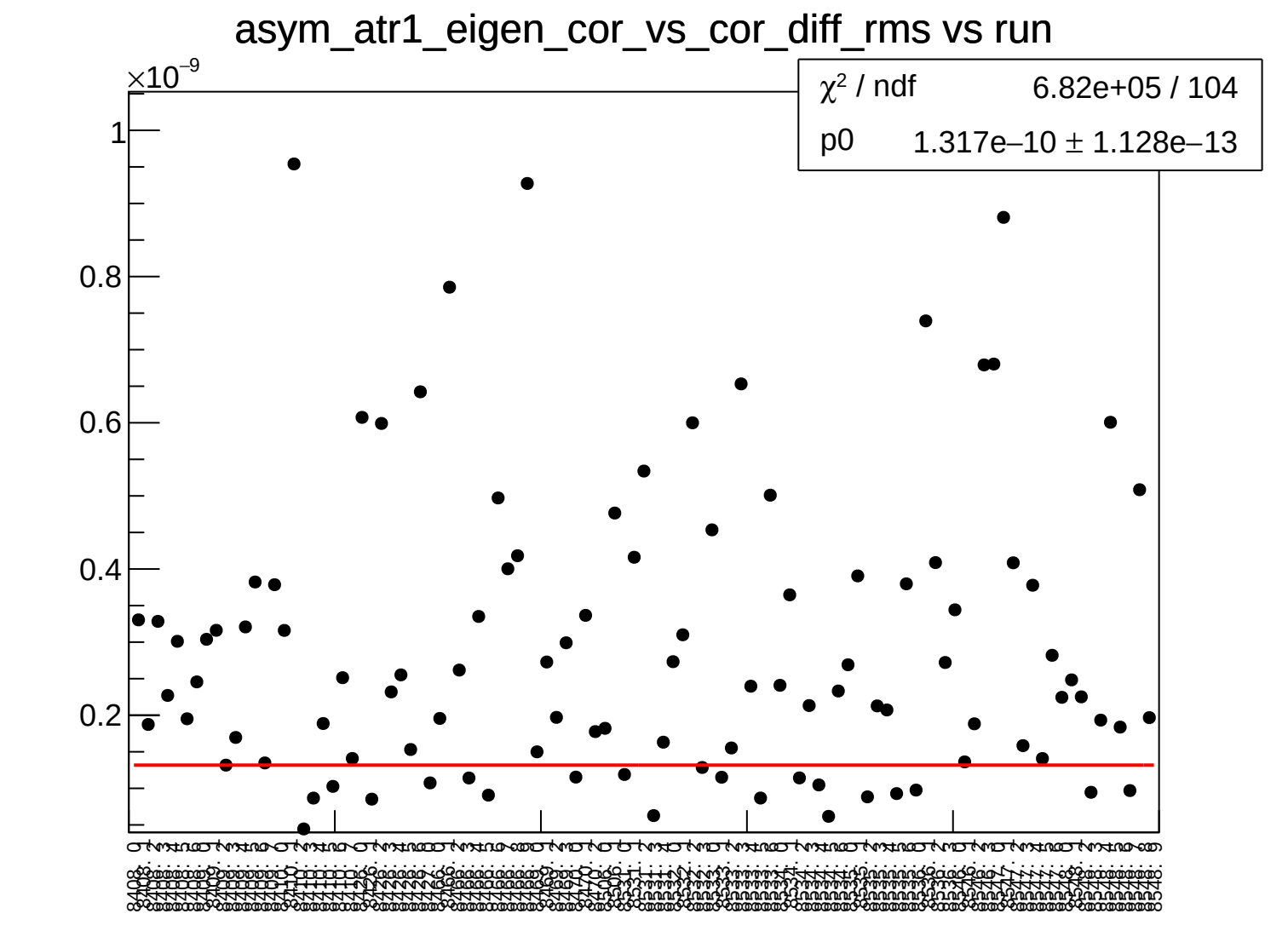

asym_atr1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 96.16 / 104
p0 −0.08914 ± 0.1099
pull
Entries 105
Mean 433.7
Std Dev 0
pull1D
Entries 105
Mean −0.00619
Std Dev 0.957

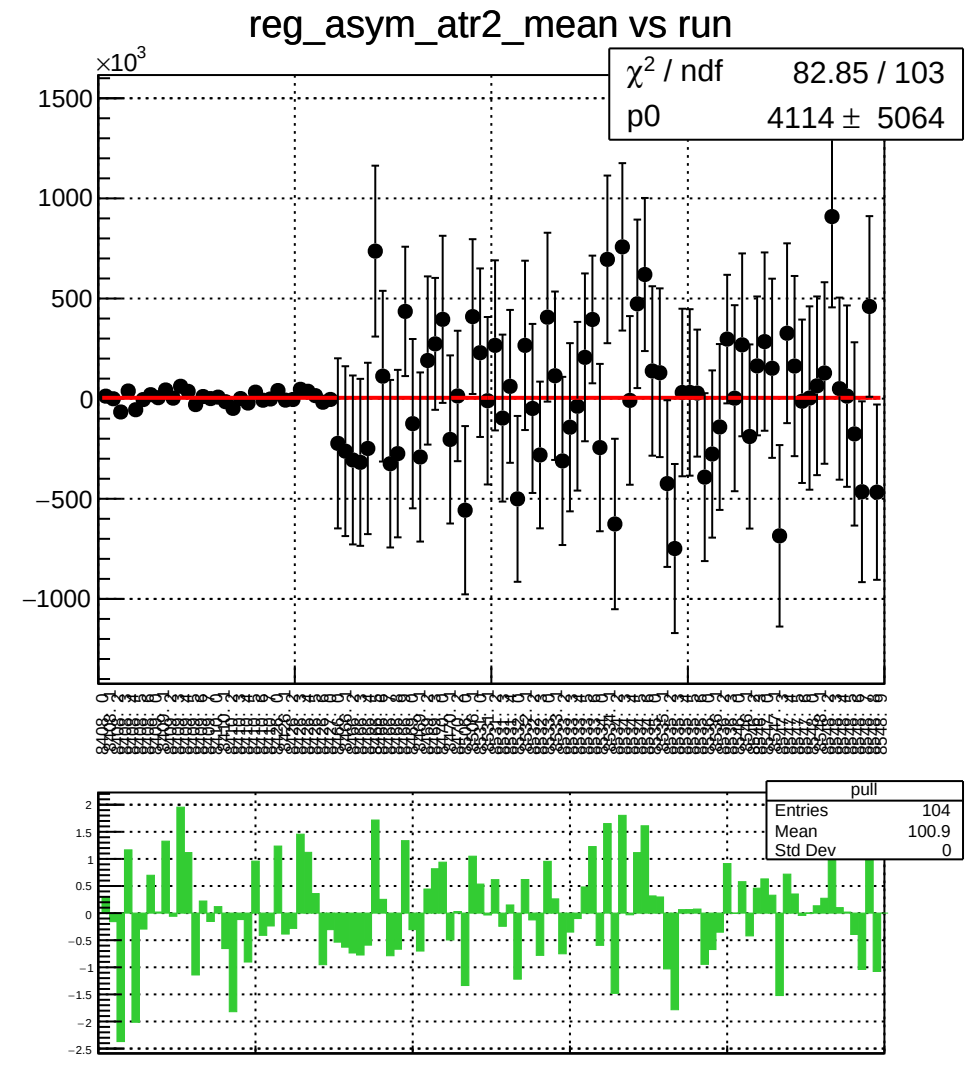

asym_atr1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.465e+05 / 104
p0 107.2 ± 0.07774
220
200
180
160
140
120
100
80
60

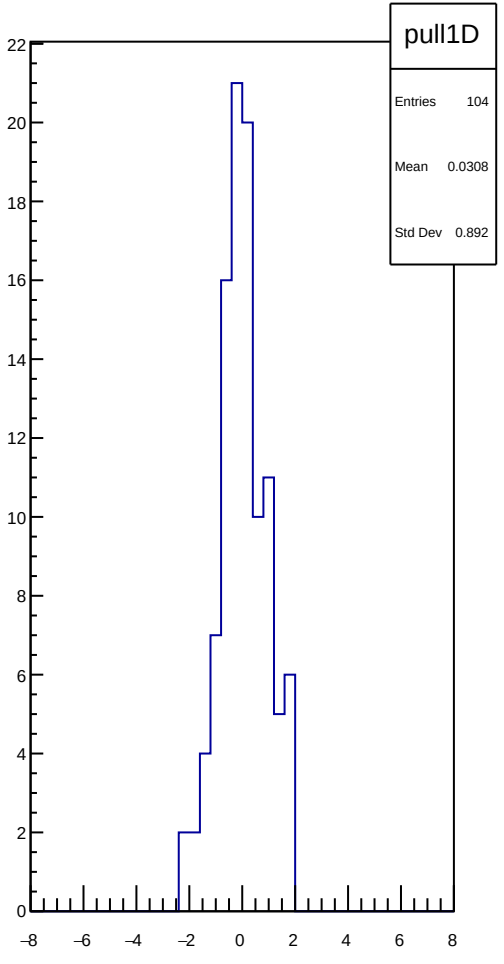

asym_atr1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.16 / 104
p0 −0.08914 ± 0.1099
pull
Entries 105
Mean 433.7
Std Dev 0
pull1D
Entries 105
Mean −0.00619
Std Dev 0.957

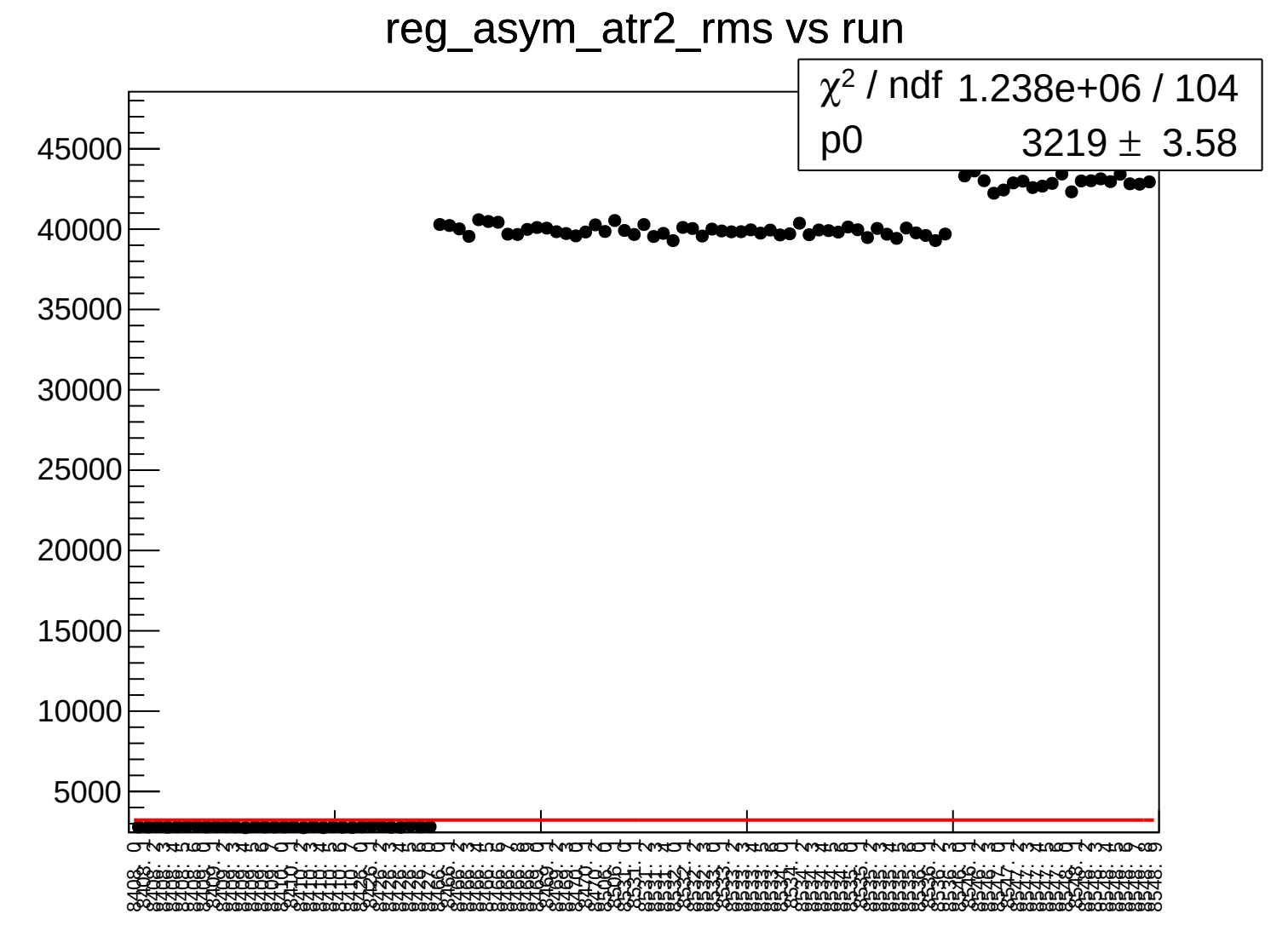

asym_atr1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.465e+05 / 104
p0 107.2 ± 0.07774
220
200
180
160
140
120
100
80
60

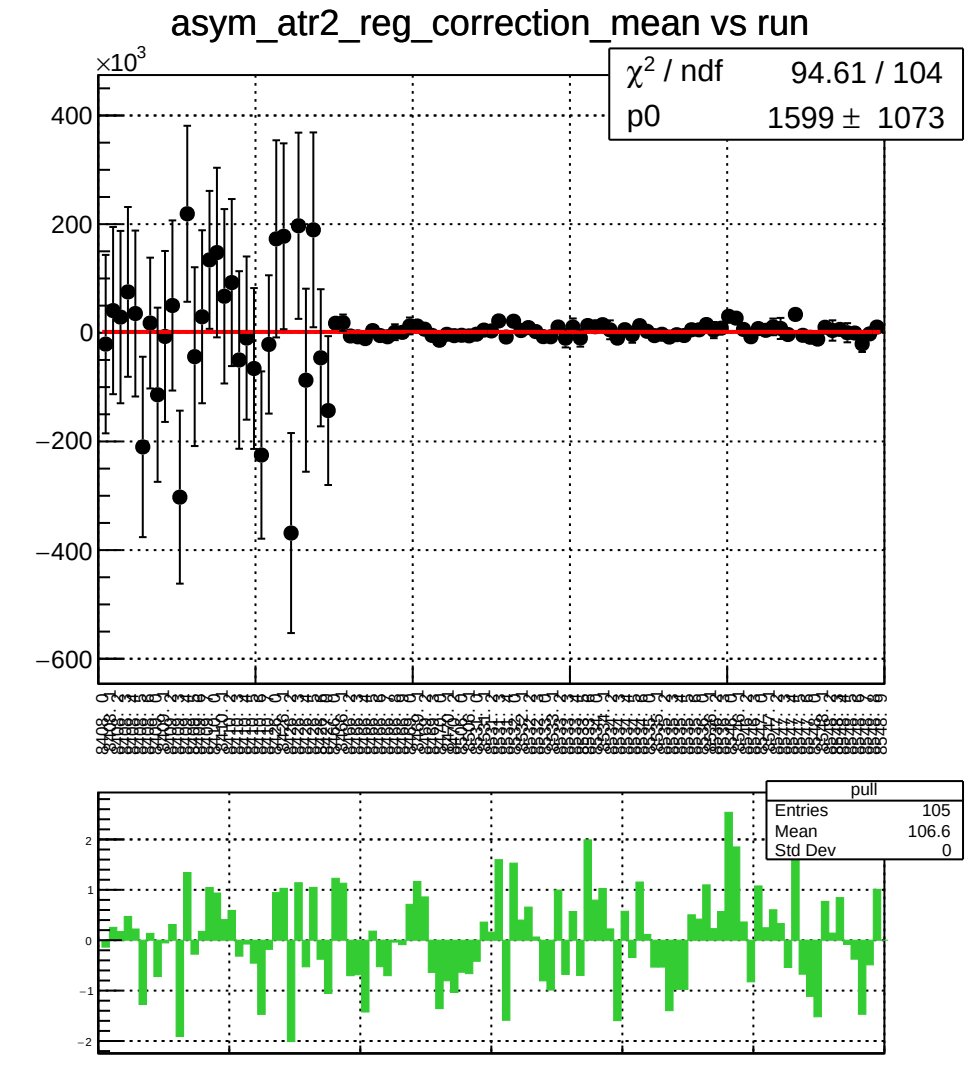

asym_atr1_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.92 / 104
p0 −2.358e−14 ± 1.595e−13
pull
Entries 105
Mean 73.46
Std Dev 0
pull1D
Entries 105
Mean 0.05147
Std Dev 0.9188

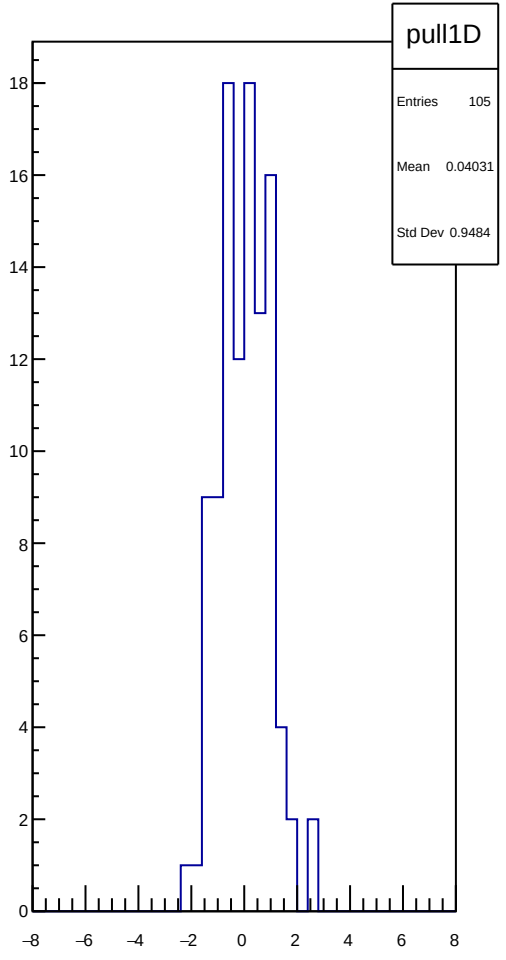

asym_atr1_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.82e+05 / 104
p0 1.317e−10 ± 1.128e−13
1
0.8
0.6
0.4
0.2

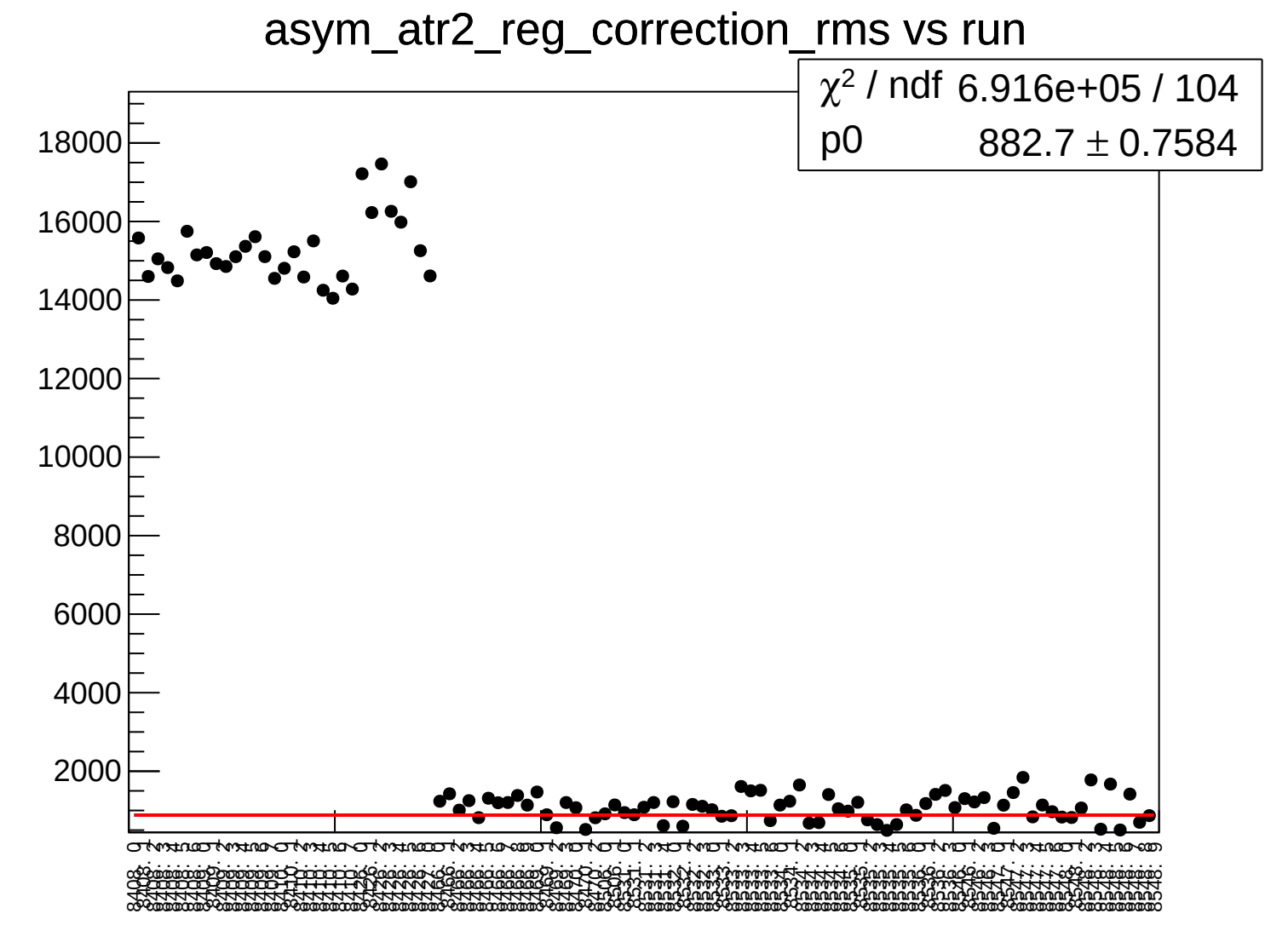

reg_asym_atr2_mean vs run
×10^3
χ^2 / ndf 82.85 / 103
p0 4114 ± 5064
1500
1000
500
0
−500
−1000
pull
Entries 104
Mean 100.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

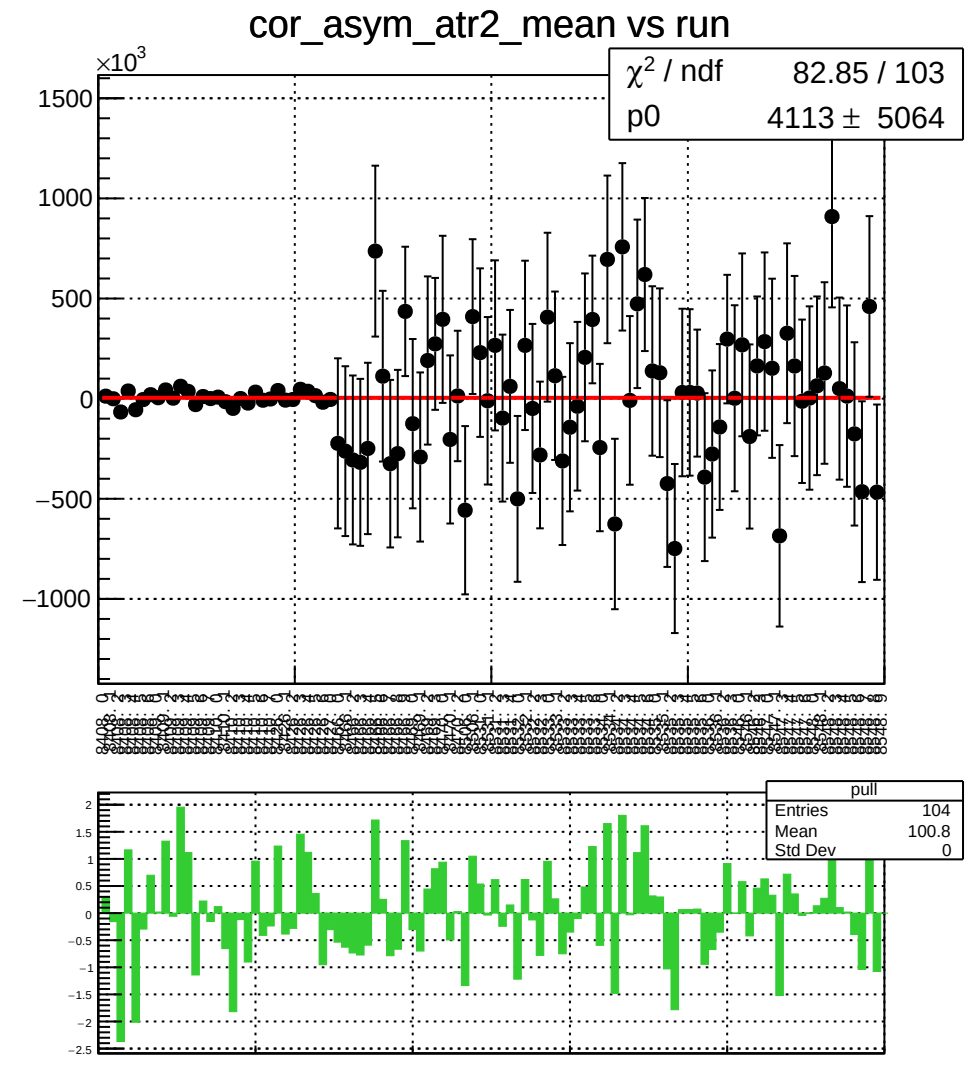

pull1D
Entries 104
Mean 0.0308
Std Dev 0.892
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

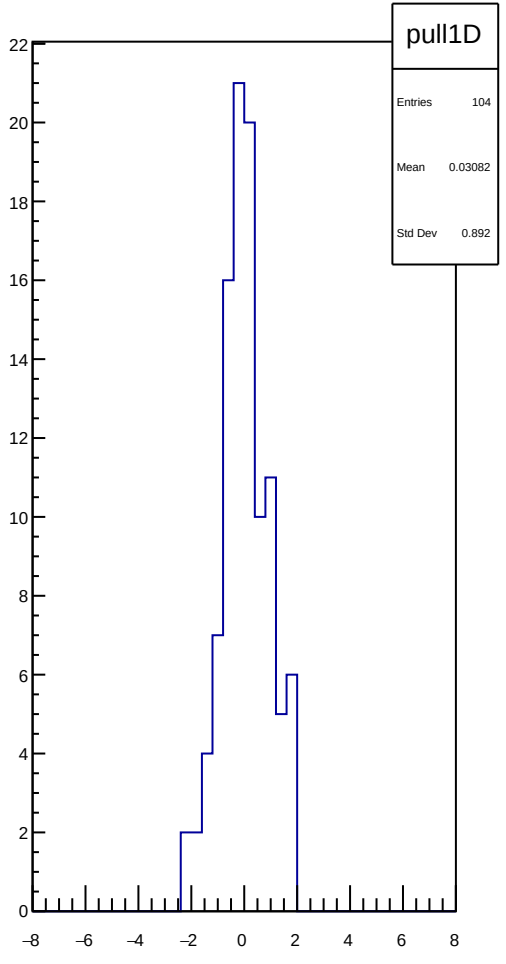

reg_asym_atr2_rms vs run
χ^2 / ndf 1.238e+06 / 104
p0 3219 ± 3.58
45000
40000
35000
30000
25000
20000
15000
10000
5000

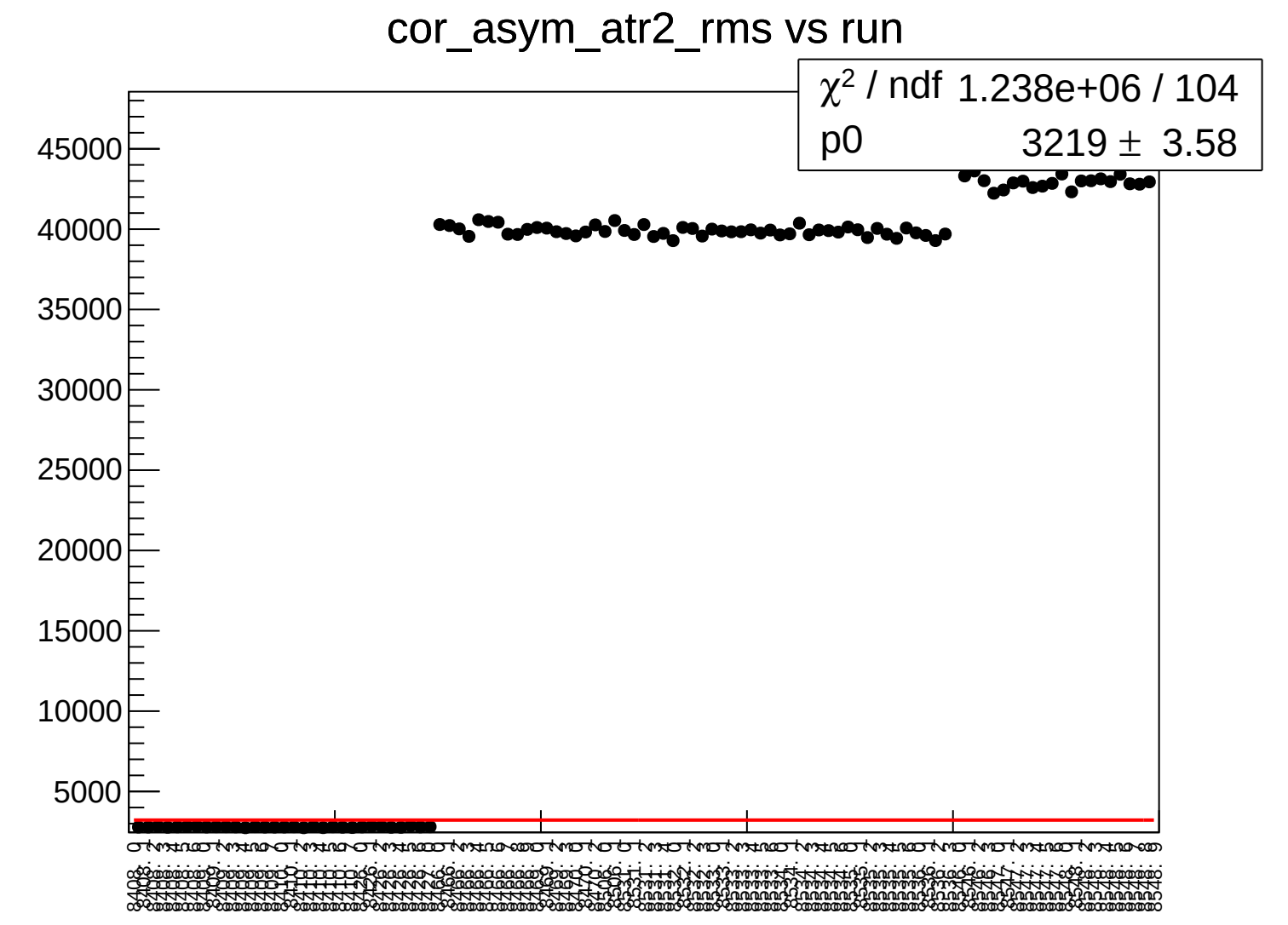

asym_atr2_reg_correction_mean vs run
×10^3
χ^2 / ndf 94.61 / 104
p0 1599 ± 1073
400
200
0
−200
−400
−600
pull
Entries 105
Mean 106.6
Std Dev 0
2
1
0
−1
−2

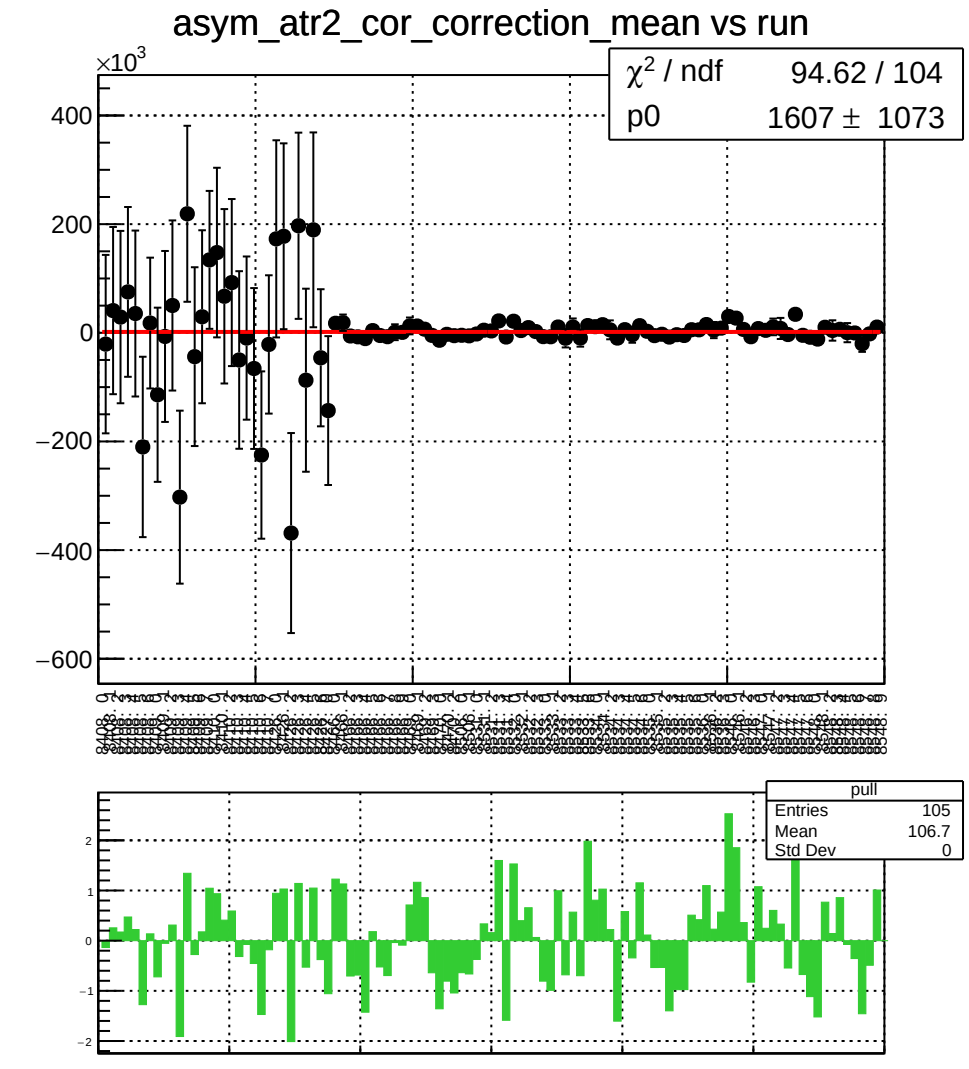

pull1D
Entries 105
Mean 0.04031
Std Dev 0.9484
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

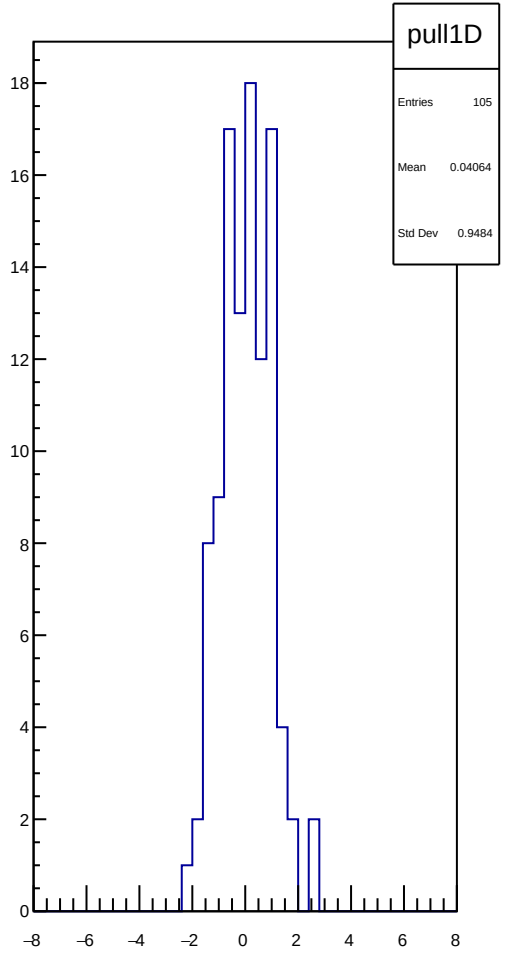

asym_atr2_reg_correction_rms vs run
χ² / ndf 6.916e+05 / 104
p0 882.7 ± 0.7584
18000
16000
14000
12000
10000
8000
6000
4000
2000

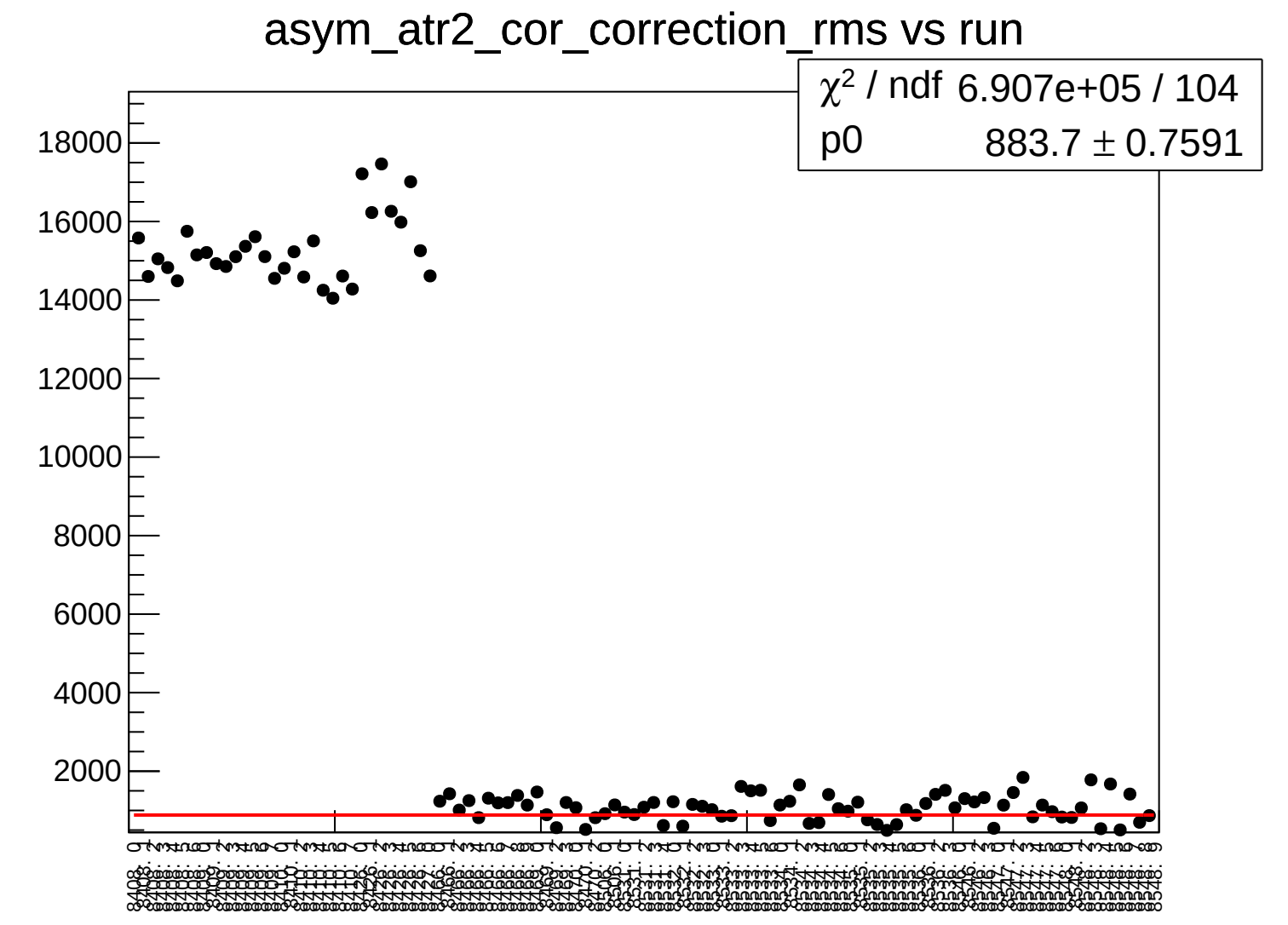

cor_asym_atr2_mean vs run
×10^3
χ^2 / ndf 82.85 / 103
p0 4113 ± 5064
1500
1000
500
0
−500
−1000
pull
Entries 104
Mean 100.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

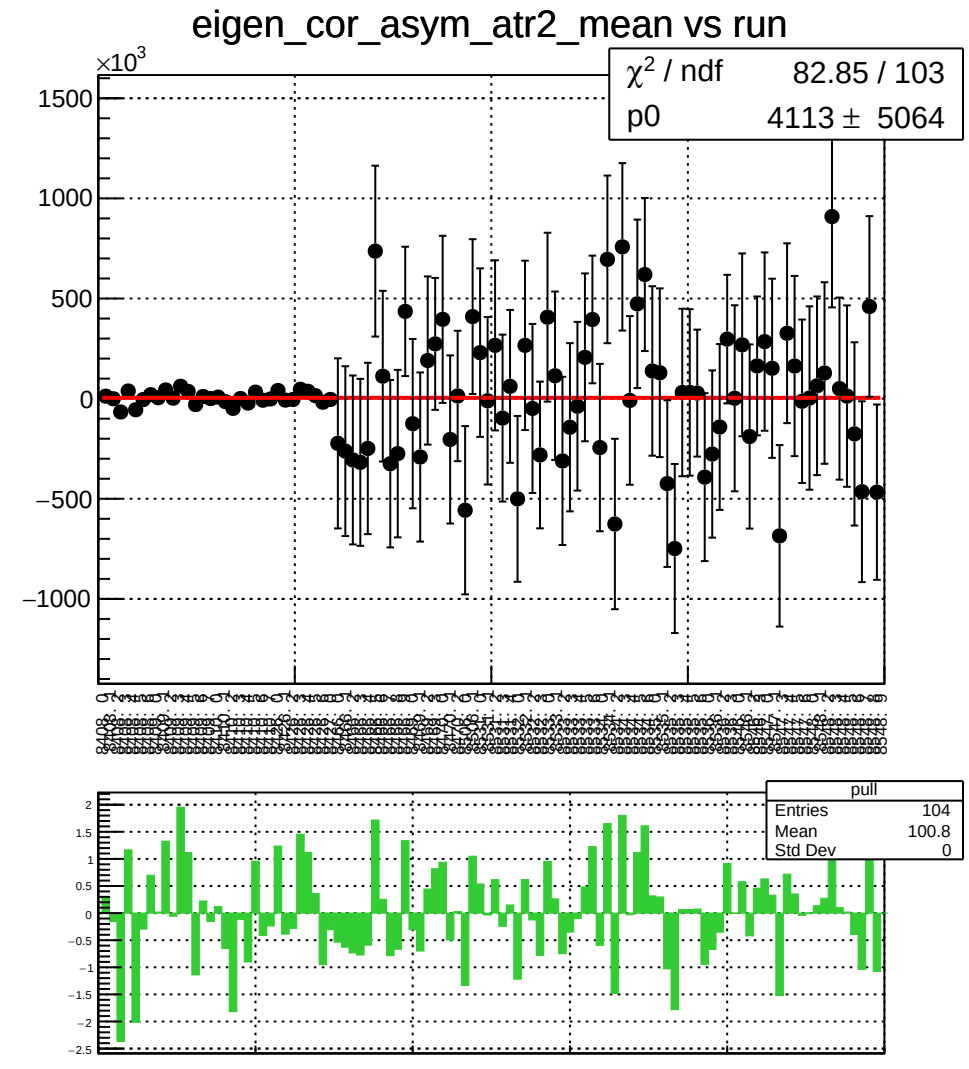

pull1D
Entries 104
Mean 0.03082
Std Dev 0.892
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

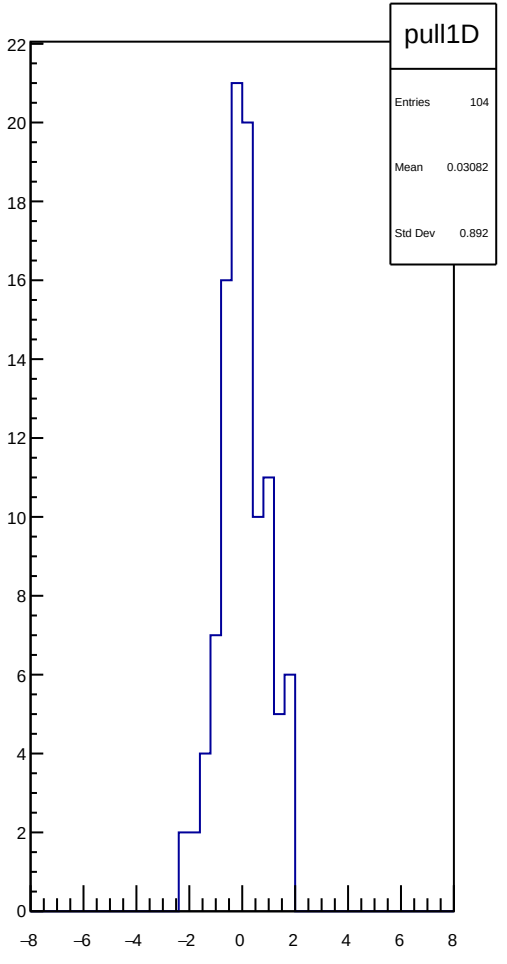

cor_asym_atr2_rms vs run
χ² / ndf 1.238e+06 / 104
p0 3219 ± 3.58
45000
40000
35000
30000
25000
20000
15000
10000
5000

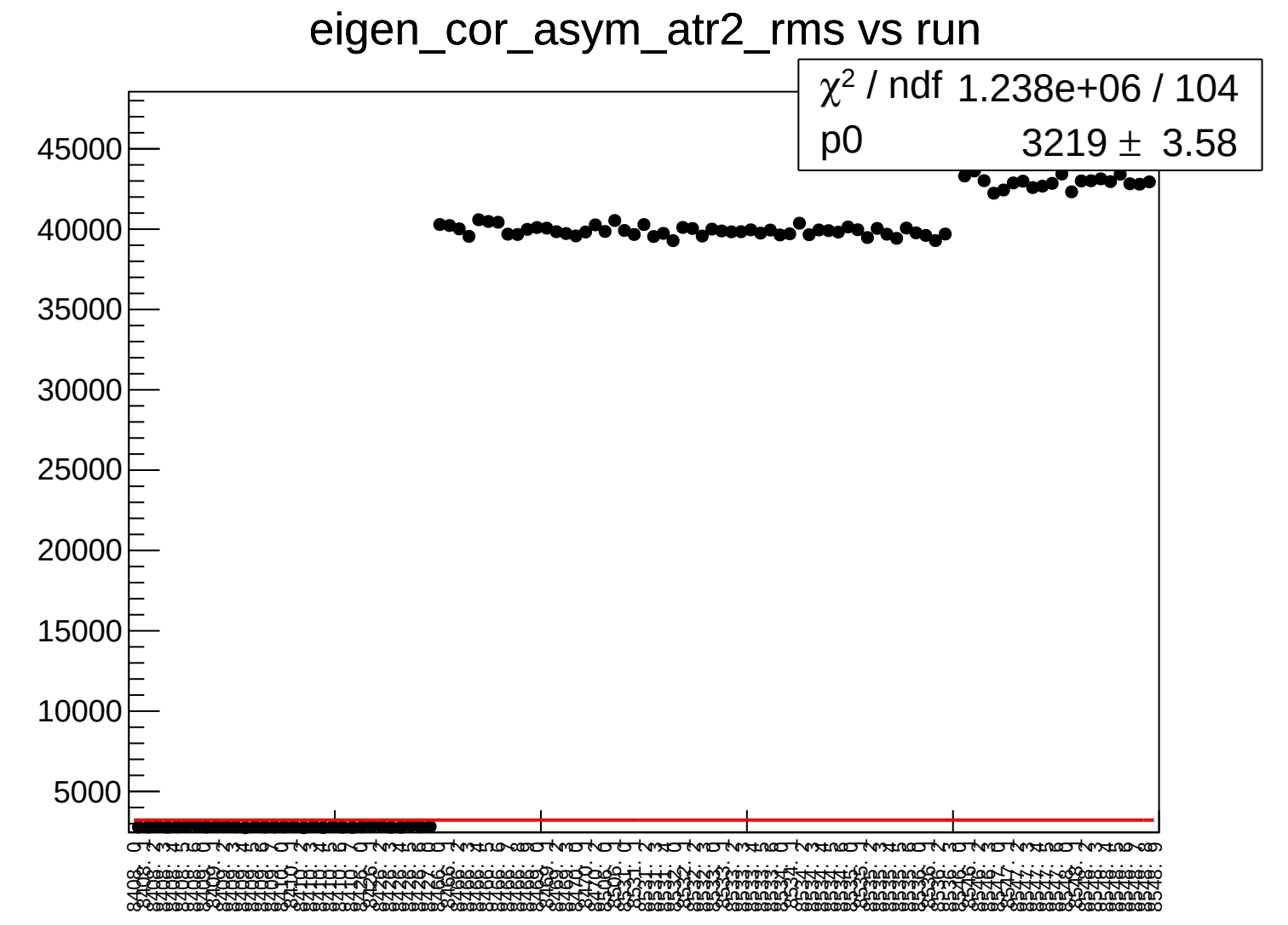

asym_atr2_cor_correction_mean vs run
×10^3
χ^2 / ndf 94.62 / 104
p0 1607 ± 1073
400
200
0
−200
−400
−600
pull
Entries 105
Mean 106.7
Std Dev 0
2
1
0
−1
−2

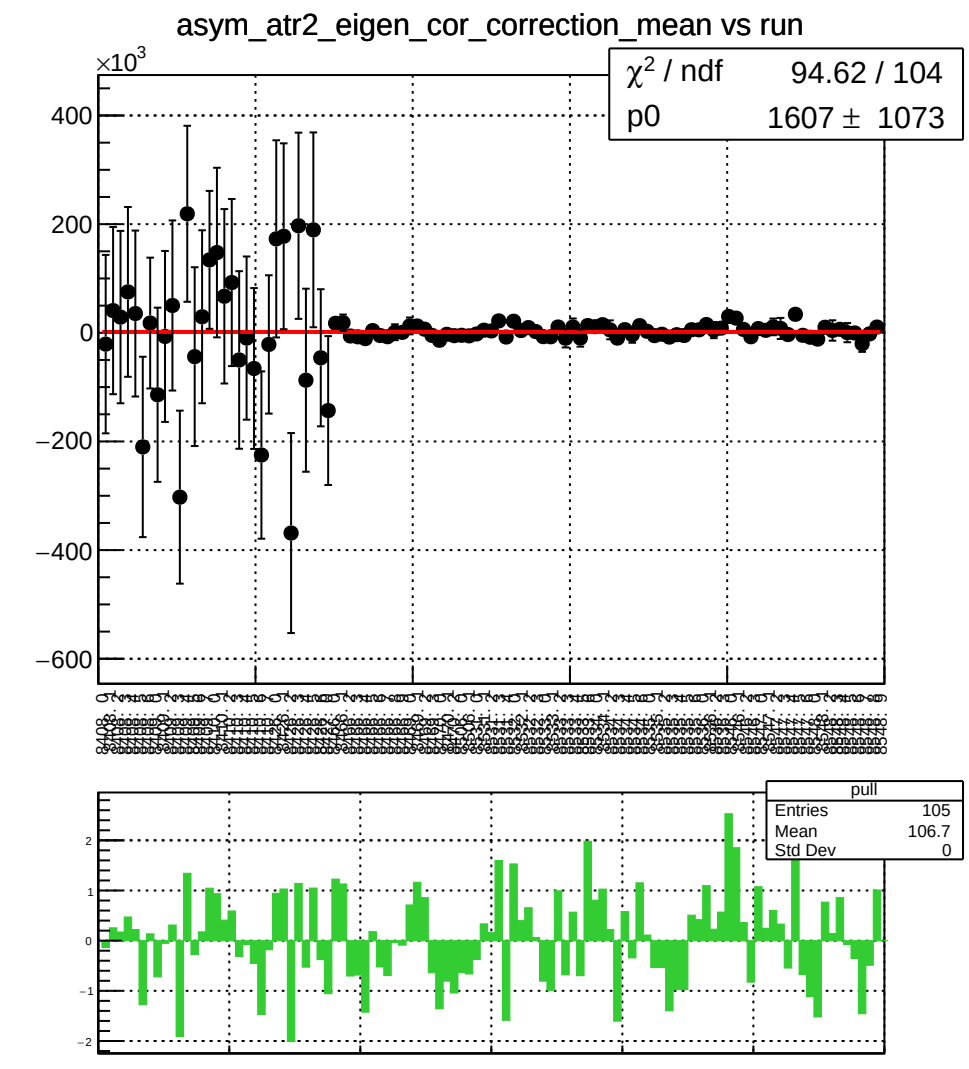

pull1D
Entries 105
Mean 0.04064
Std Dev 0.9484
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

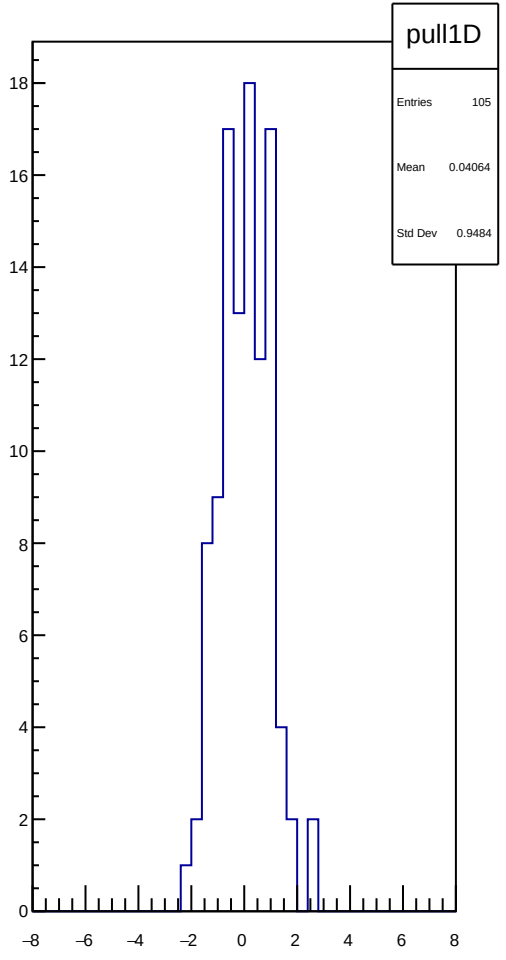

asym_atr2_cor_correction_rms vs run
χ² / ndf 6.907e+05 / 104
p0 883.7 ± 0.7591
18000
16000
14000
12000
10000
8000
6000
4000
2000

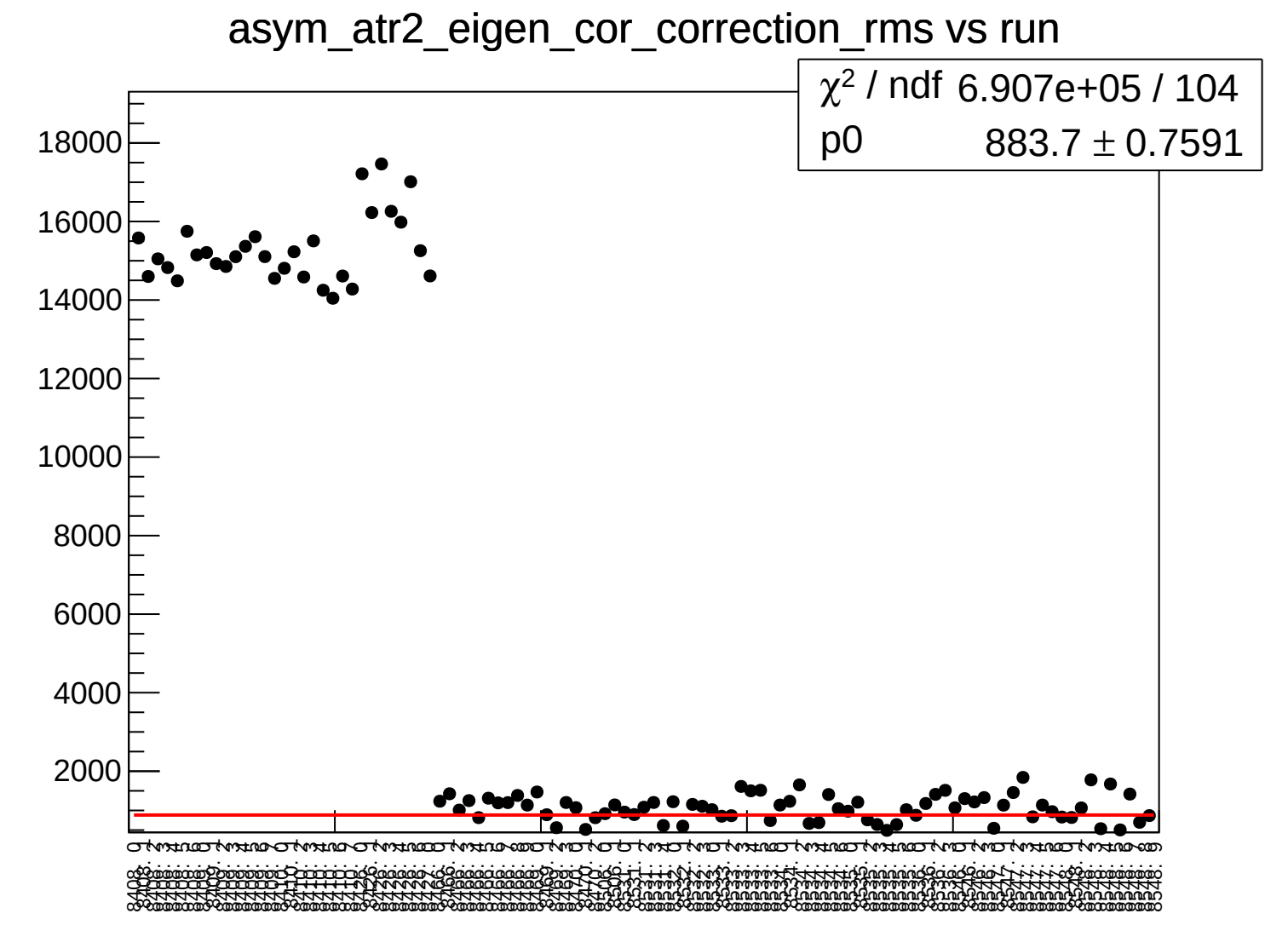

eigen_cor_asym_atr2_mean vs run
×10^3
χ^2 / ndf 82.85 / 103
p0 4113 ± 5064
1500
1000
500
0
−500
−1000
pull
Entries 104
Mean 100.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

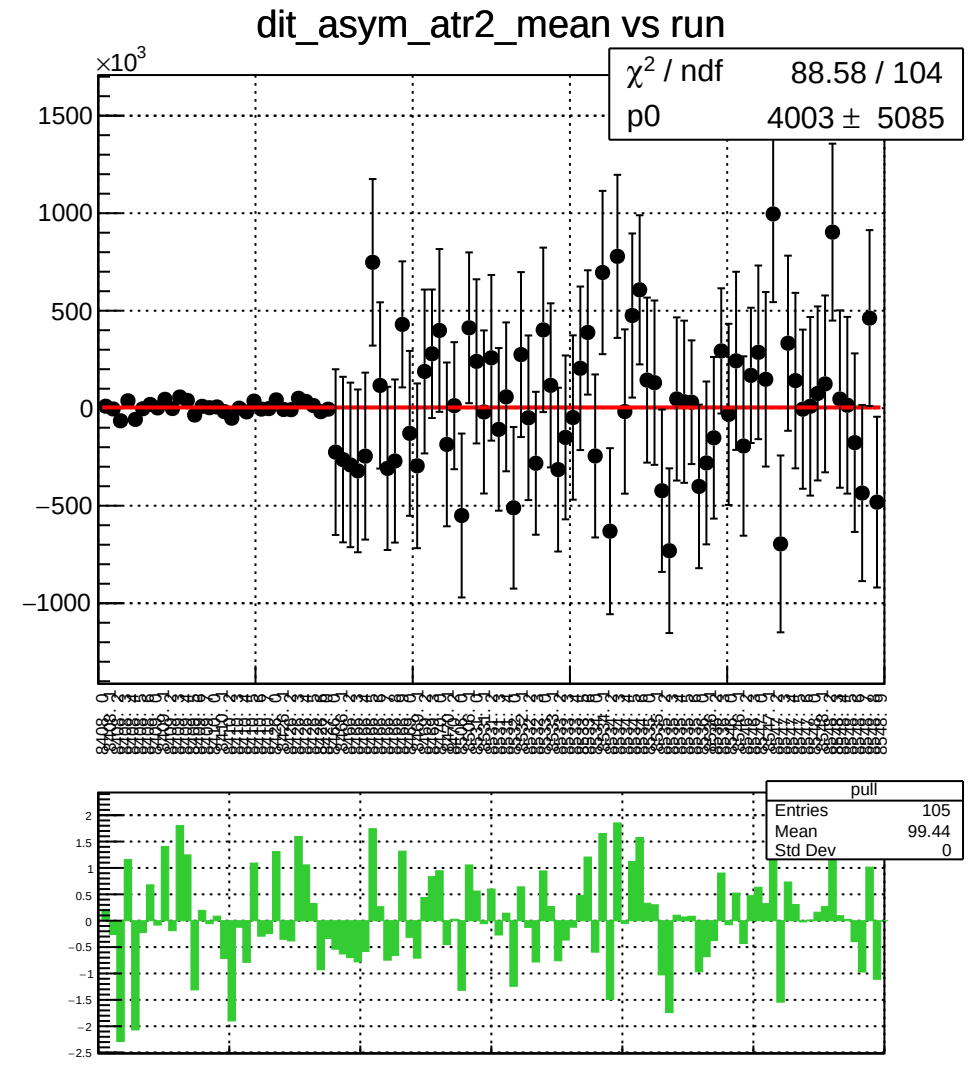

pull1D
Entries 104
Mean 0.03082
Std Dev 0.892
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

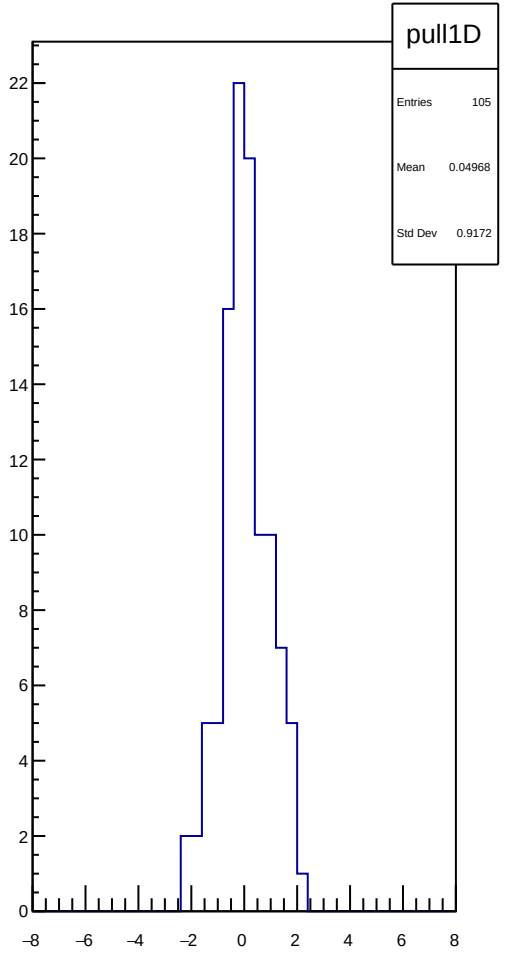

eigen_cor_asym_atr2_rms vs run
χ² / ndf 1.238e+06 / 104
p0 3219 ± 3.58
45000
40000
35000
30000
25000
20000
15000
10000
5000

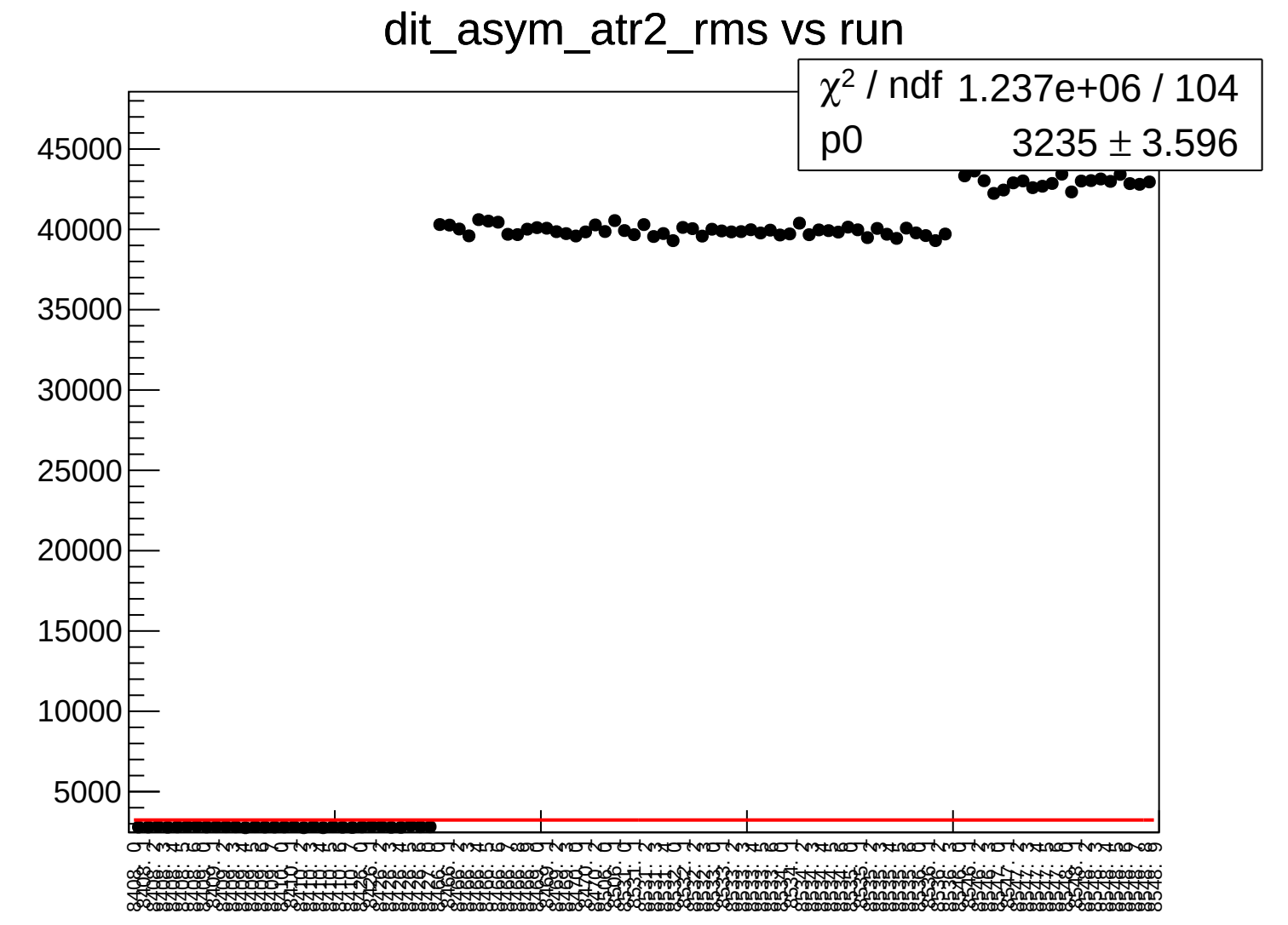

asym_atr2_eigen_cor_correction_mean vs run
×10^3
400
200
0
−200
−400
−600
χ² / ndf 94.62 / 104
p0 1607 ± 1073
pull
Entries 105
Mean 106.7
Std Dev 0
2
1
0
−1
−2

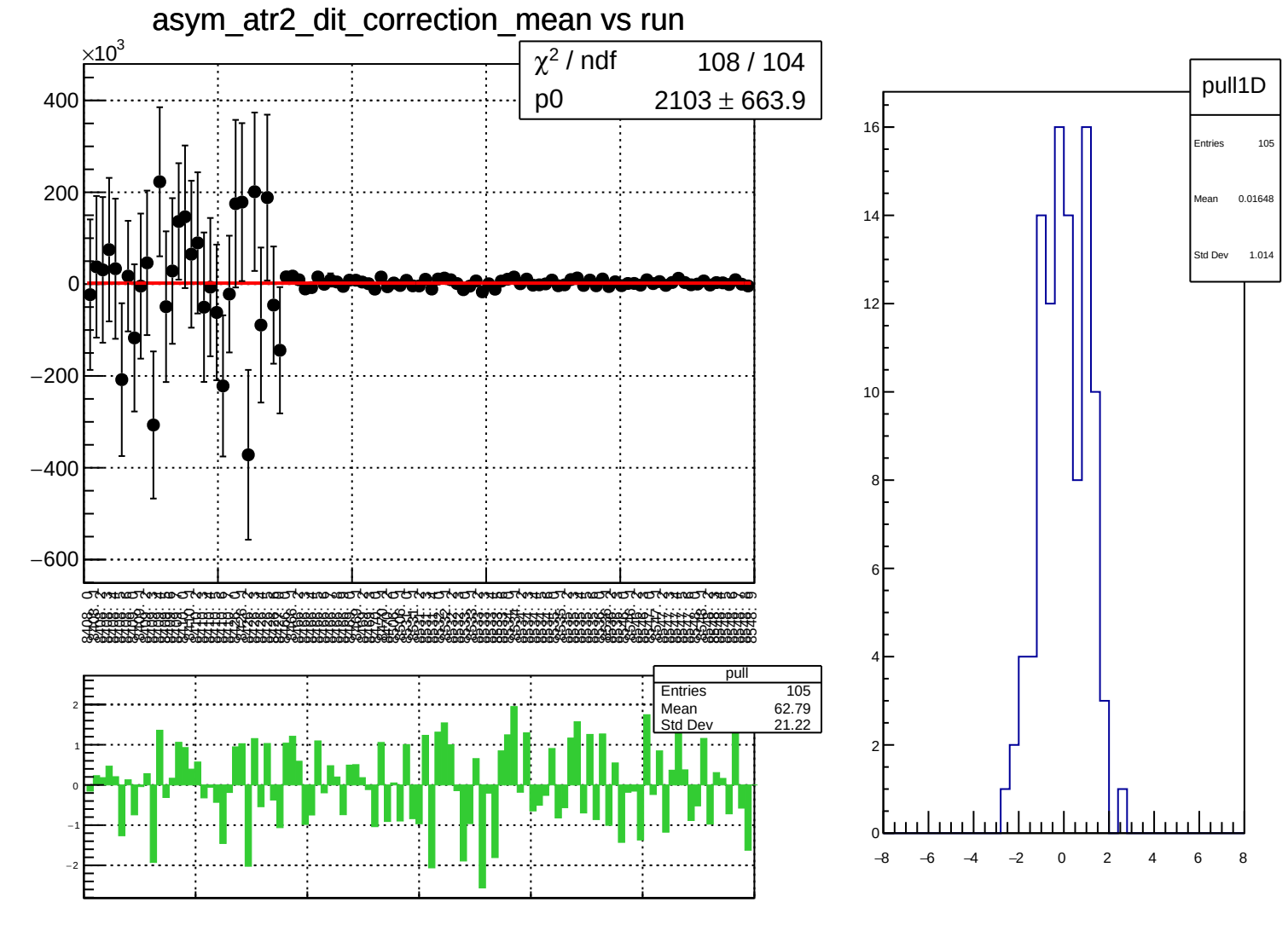

pull1D
Entries 105
Mean 0.04064
Std Dev 0.9484
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr2_eigen_cor_correction_rms vs run
χ^2 / ndf 6.907e+05 / 104
p0 883.7 ± 0.7591
18000
16000
14000
12000
10000
8000
6000
4000
2000

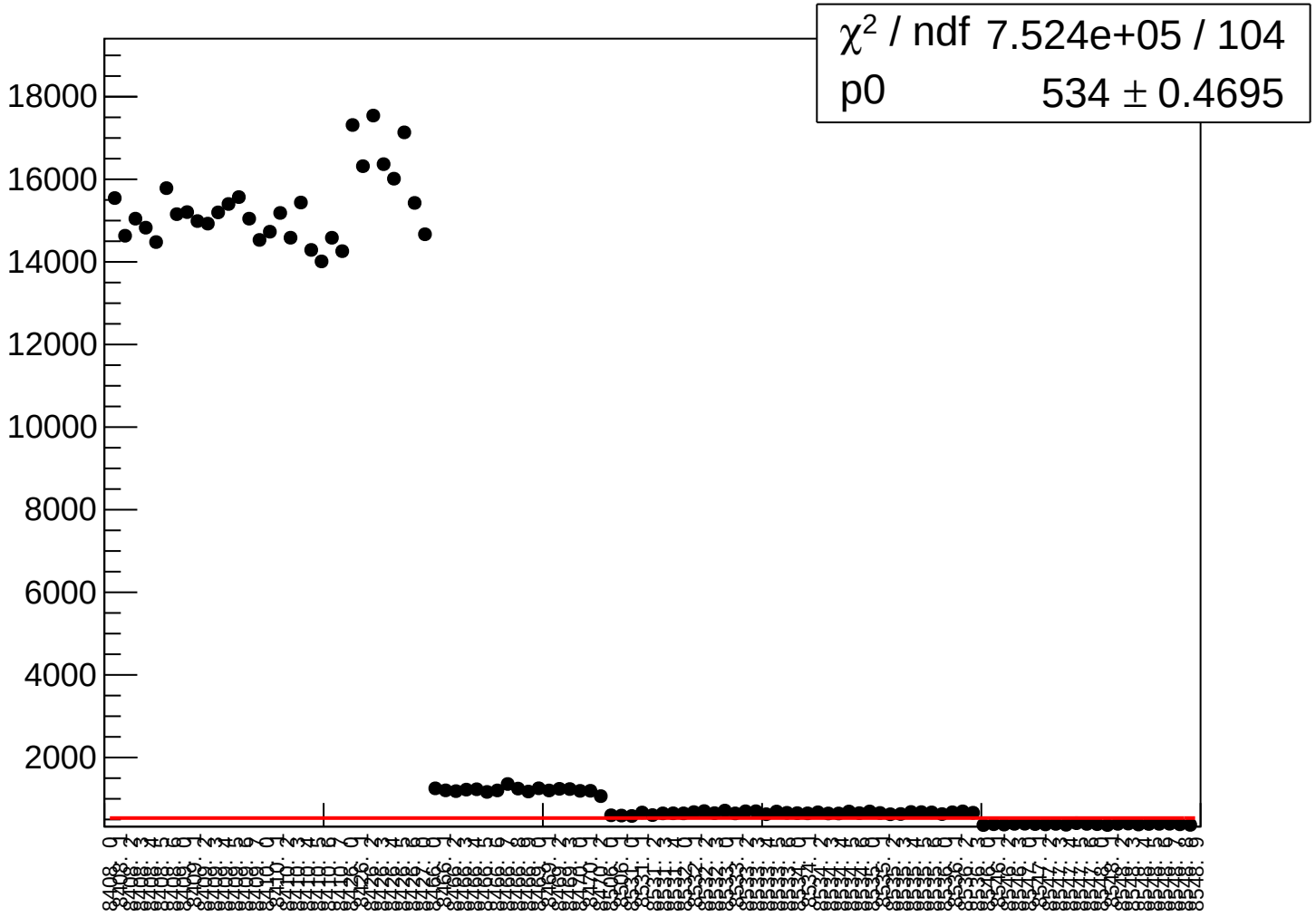

dit_asym_atr2_mean vs run
×10^3
χ^2 / ndf 88.58 / 104
p0 4003 ± 5085
1500
1000
500
0
−500
−1000
pull
Entries 105
Mean 99.44
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

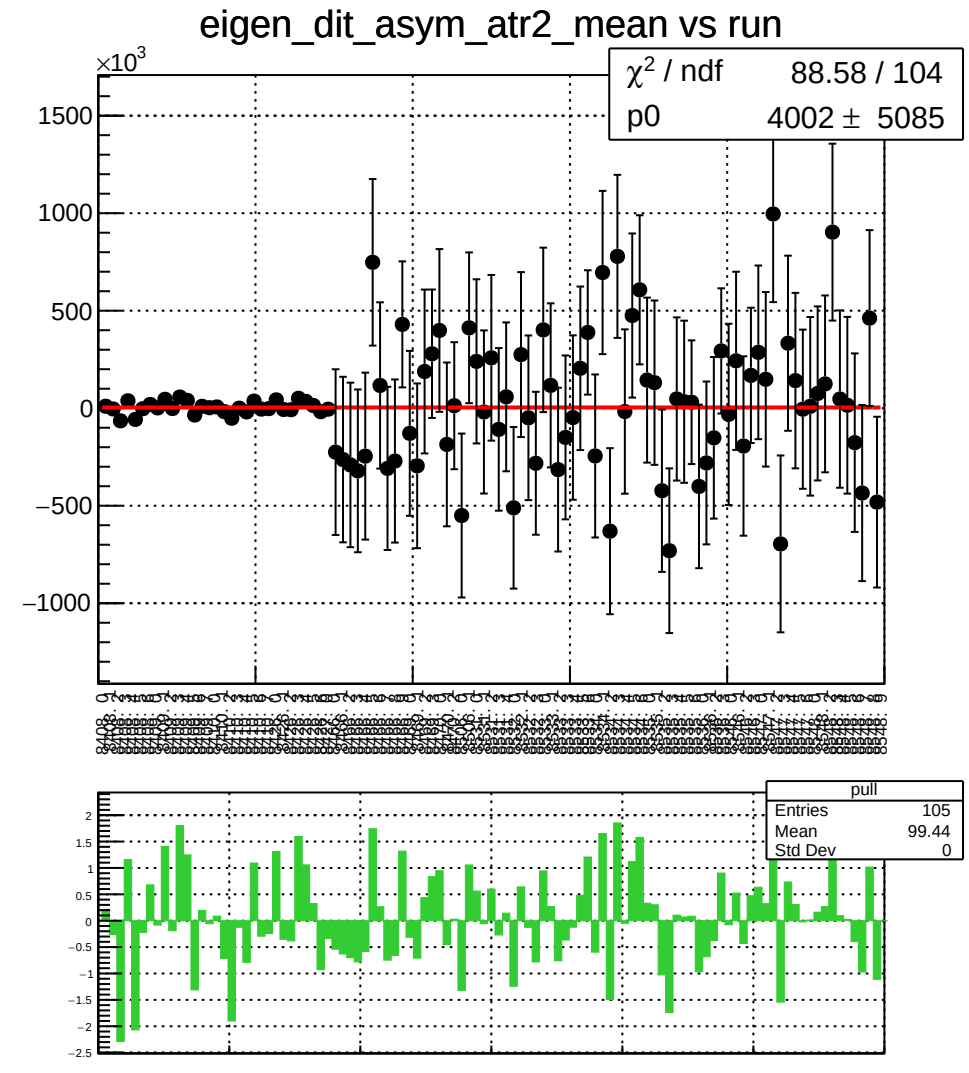

pull1D
Entries 105
Mean 0.04968
Std Dev 0.9172
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

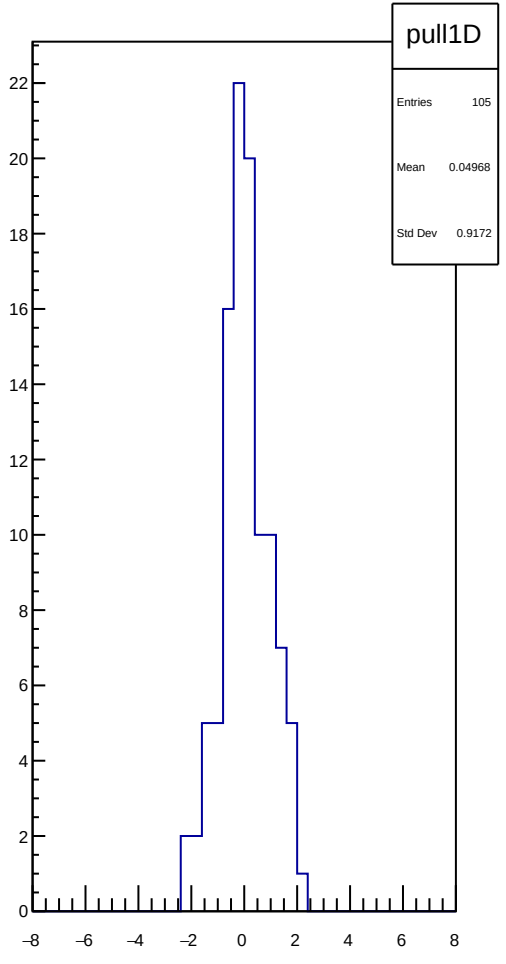

dit_asym_atr2_rms vs run
χ² / ndf 1.237e+06 / 104
p0 3235 ± 3.596
45000
40000
35000
30000
25000
20000
15000
10000
5000

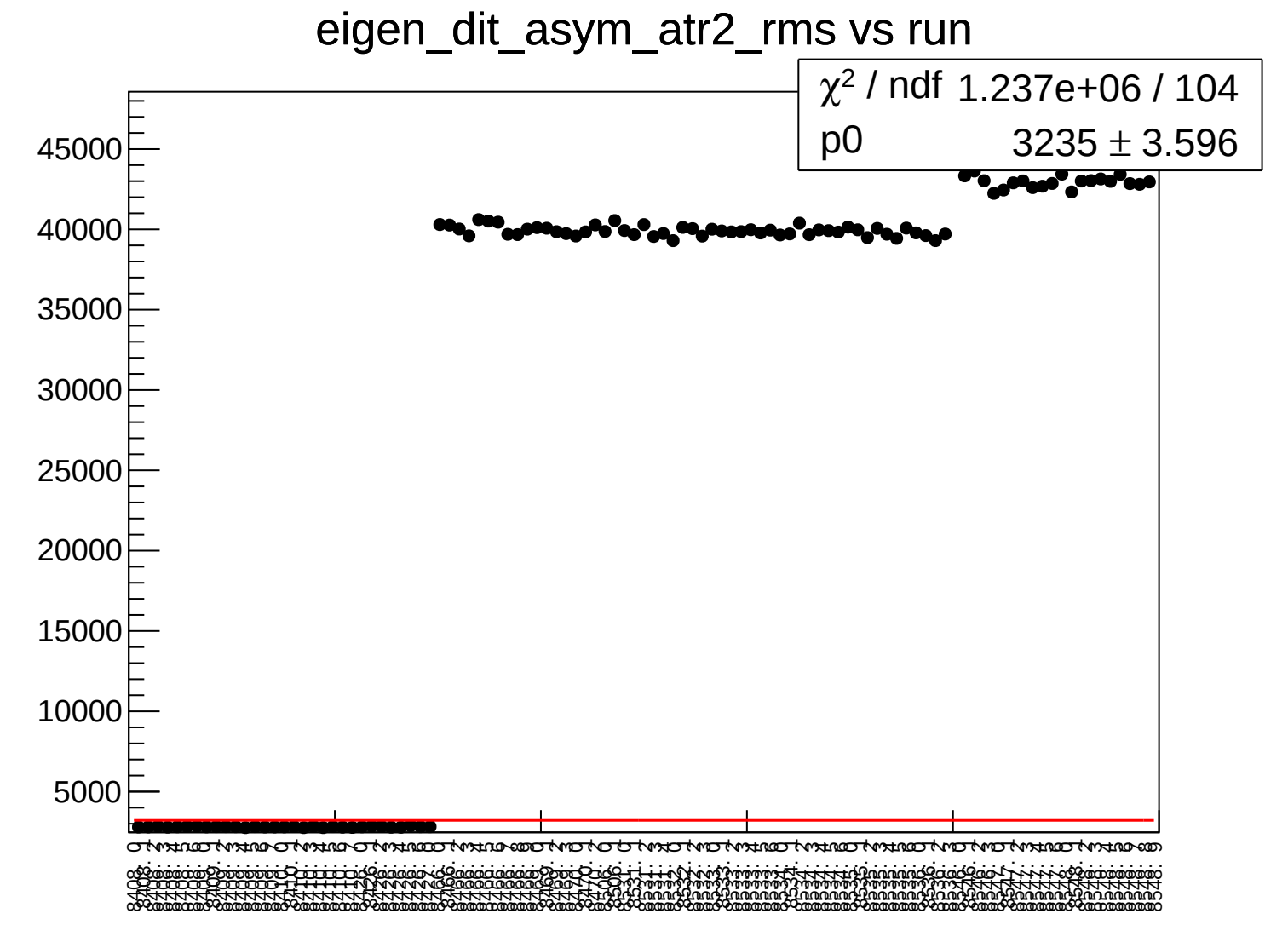

asym_atr2_dit_correction_mean vs run
×10^3
χ^2 / ndf 108 / 104
p0 2103 ± 663.9
400
200
0
−200
−400
−600
pull
Entries 105
Mean 62.79
Std Dev 21.22
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.01648
Std Dev 1.014
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

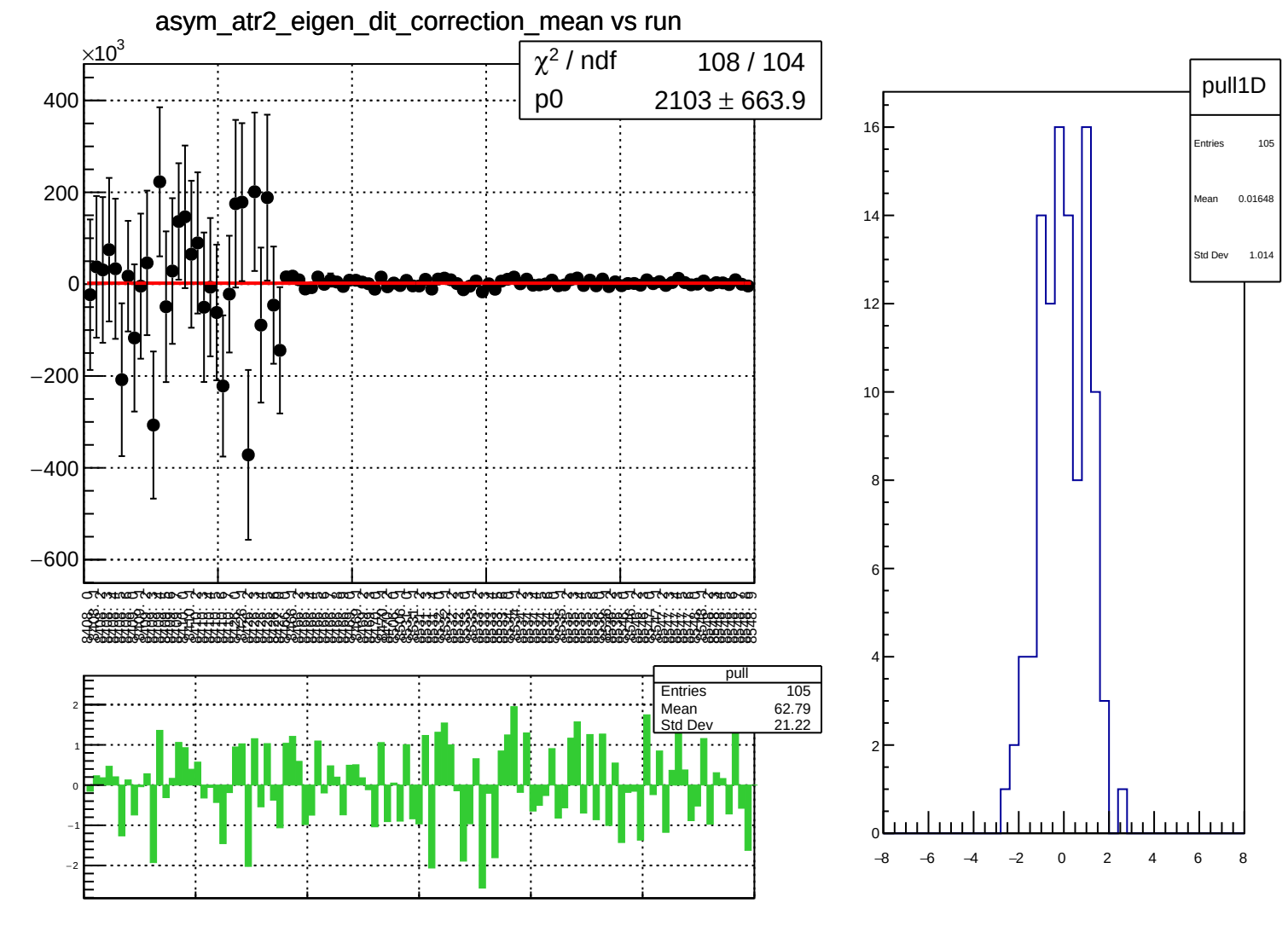
asym_atr2_dit_correction_rms vs run

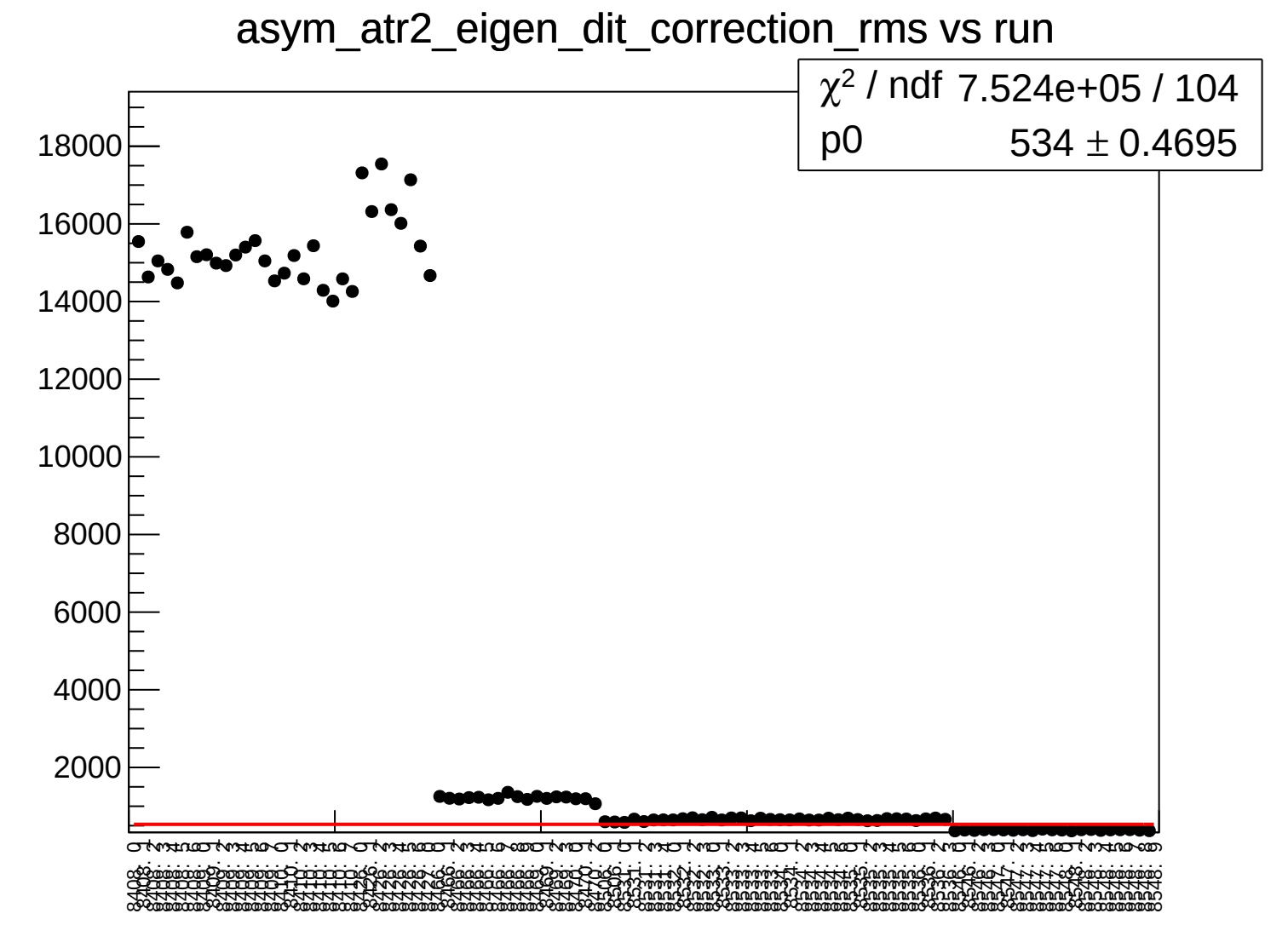


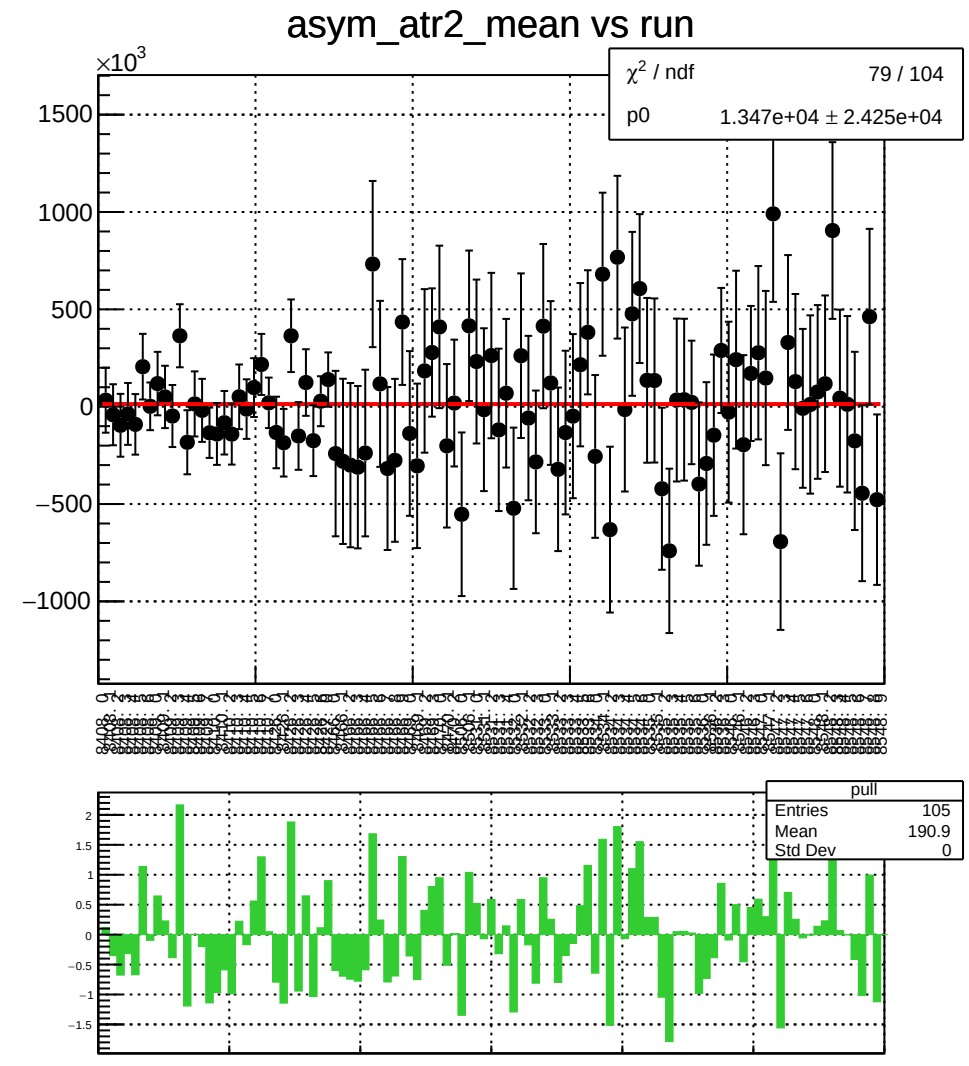

eigen_dit_asym_atr2_mean vs run
×10^3
χ^2 / ndf 88.58 / 104
p0 4002 ± 5085
1500
1000
500
0
−500
−1000
pull
Entries 105
Mean 99.44
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

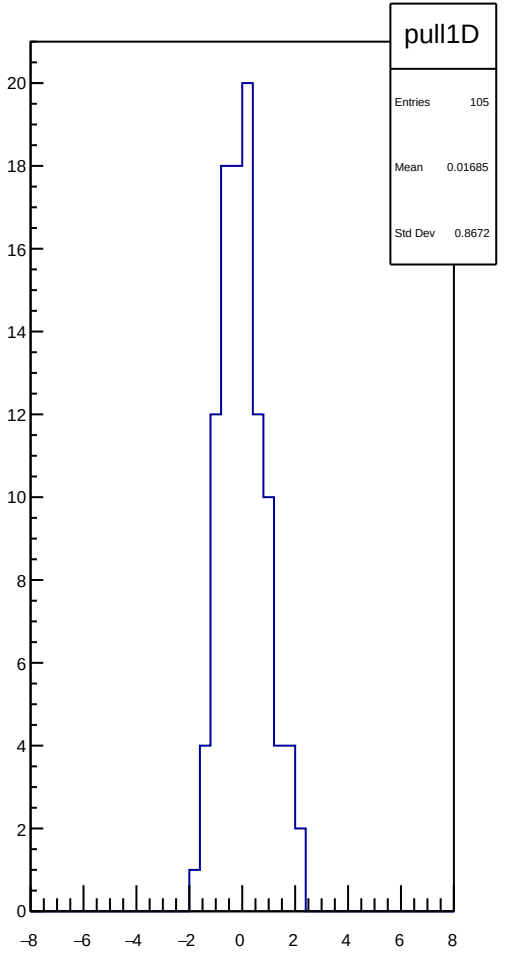

pull1D
Entries 105
Mean 0.04968
Std Dev 0.9172
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

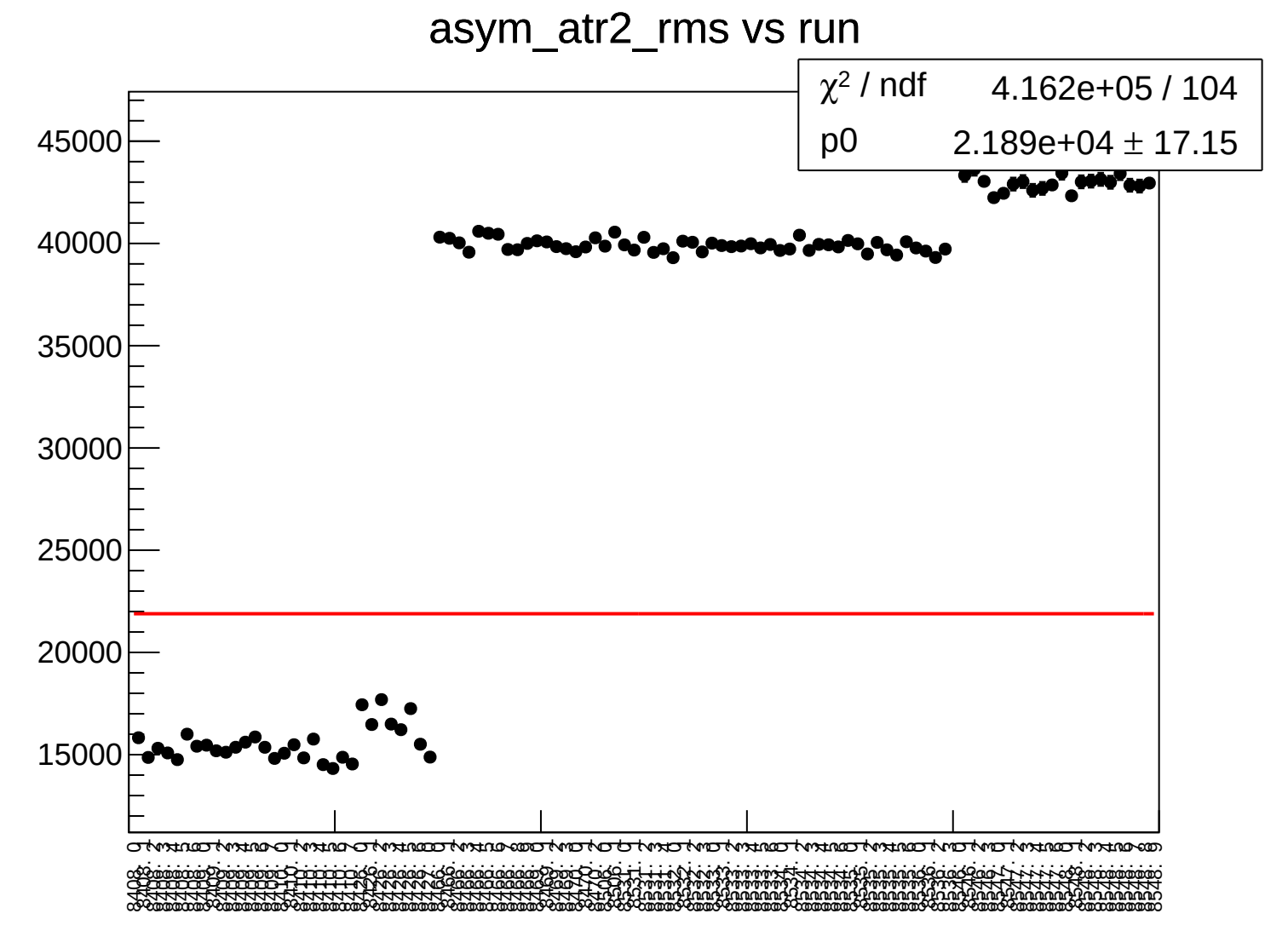

eigen_dit_asym_atr2_rms vs run
χ² / ndf 1.237e+06 / 104
p0 3235 ± 3.596
45000
40000
35000
30000
25000
20000
15000
10000
5000

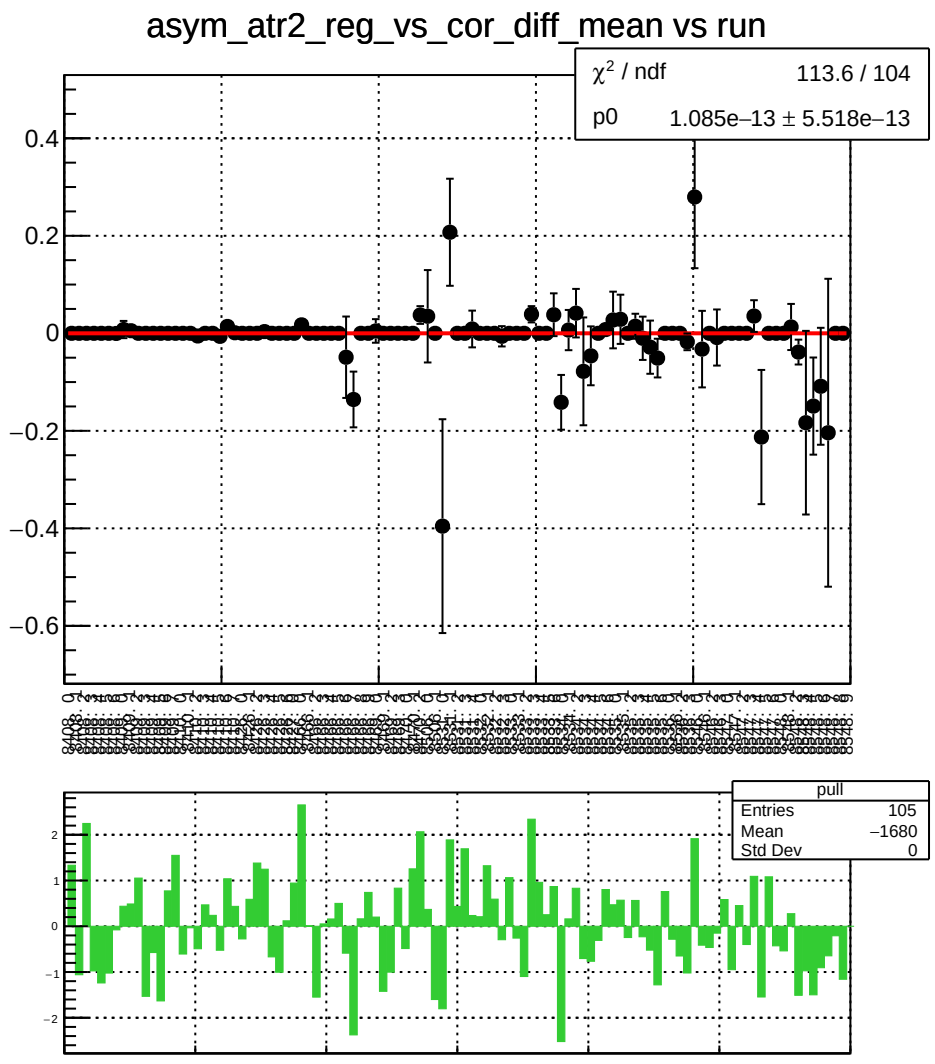

asym_atr2_eigen_dit_correction_mean vs run
×10^3
400
200
0
−200
−400
−600
χ² / ndf 108 / 104
p0 2103 ± 663.9
pull
Entries 105
Mean 62.79
Std Dev 21.22
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.01648
Std Dev 1.014
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

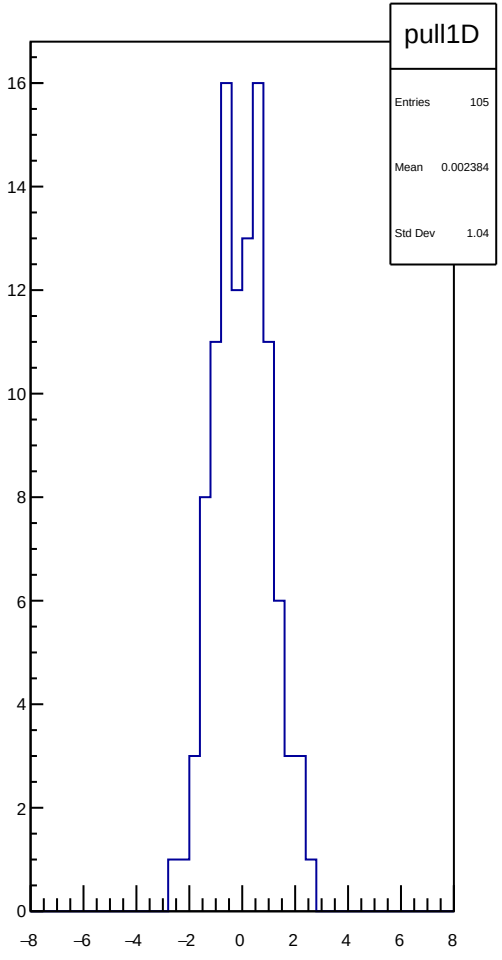

asym_atr2_eigen_dit_correction_rms vs run
χ² / ndf 7.524e+05 / 104
p0 534 ± 0.4695
18000
16000
14000
12000
10000
8000
6000
4000
2000

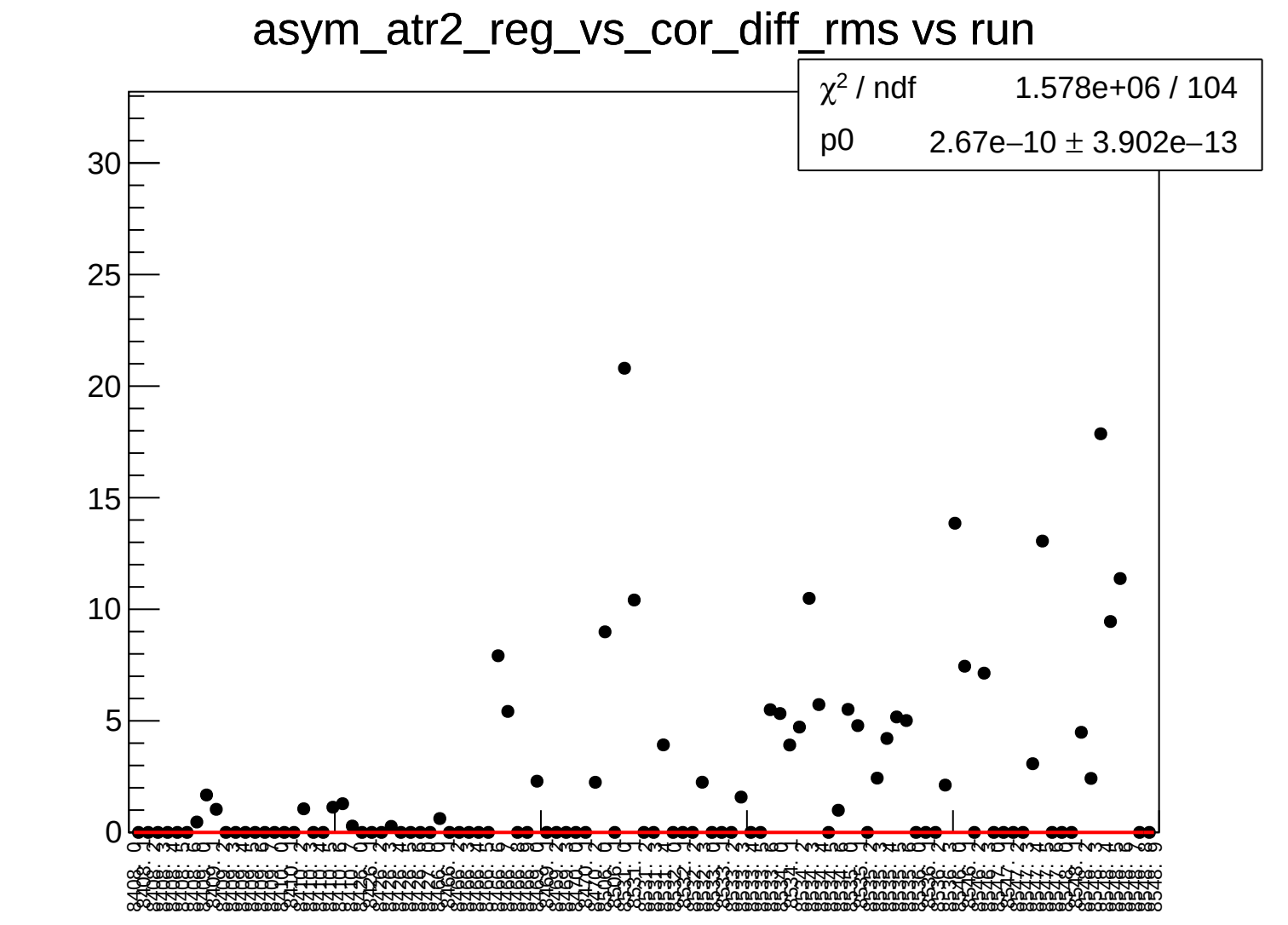

asym_atr2_mean vs run
×10^3
χ² / ndf 79 / 104
p0 1.347e+04 ± 2.425e+04
1500
1000
500
0
−500
−1000
pull
Entries 105
Mean 190.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

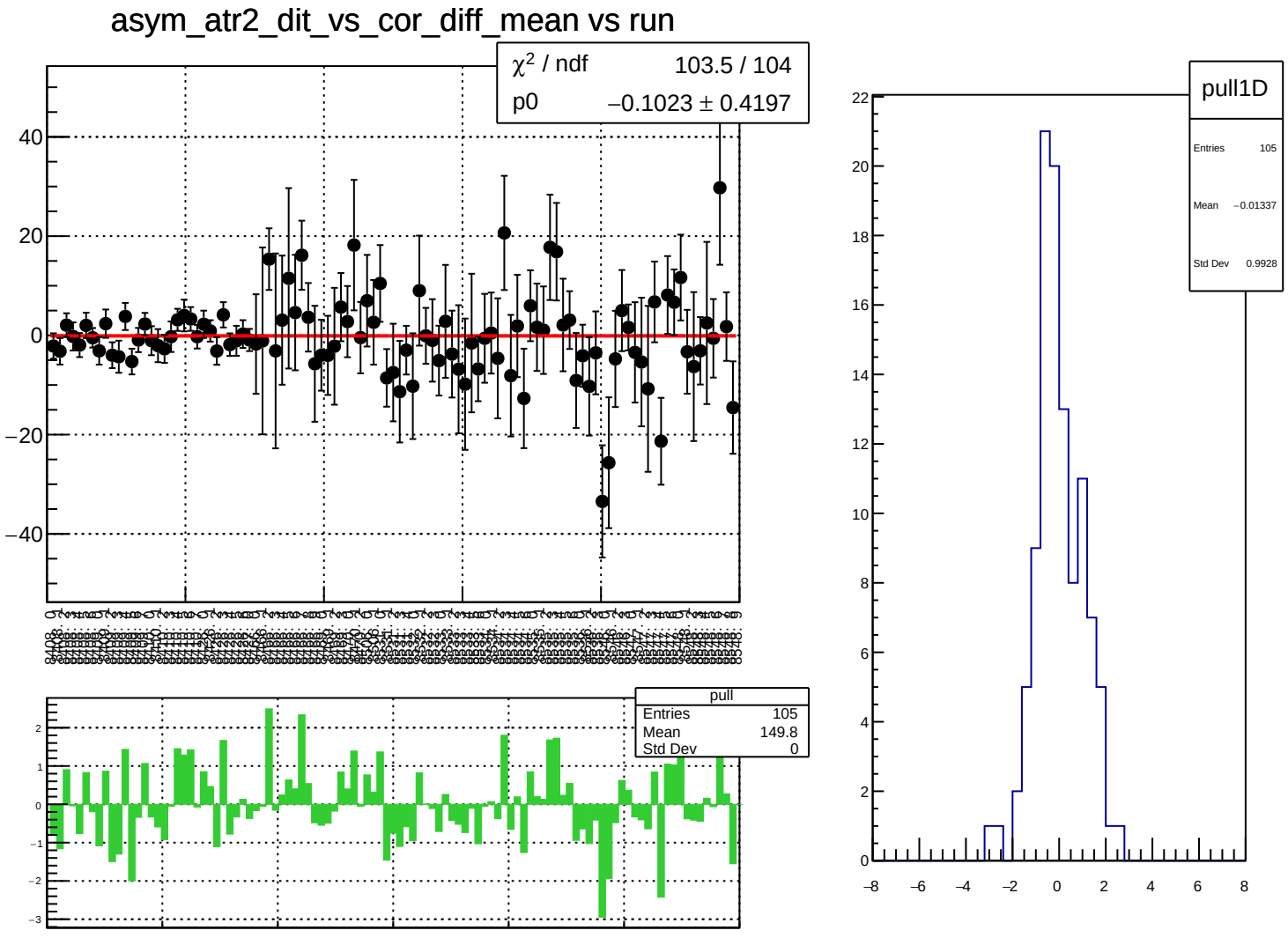

pull1D
Entries 105
Mean 0.01685
Std Dev 0.8672
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

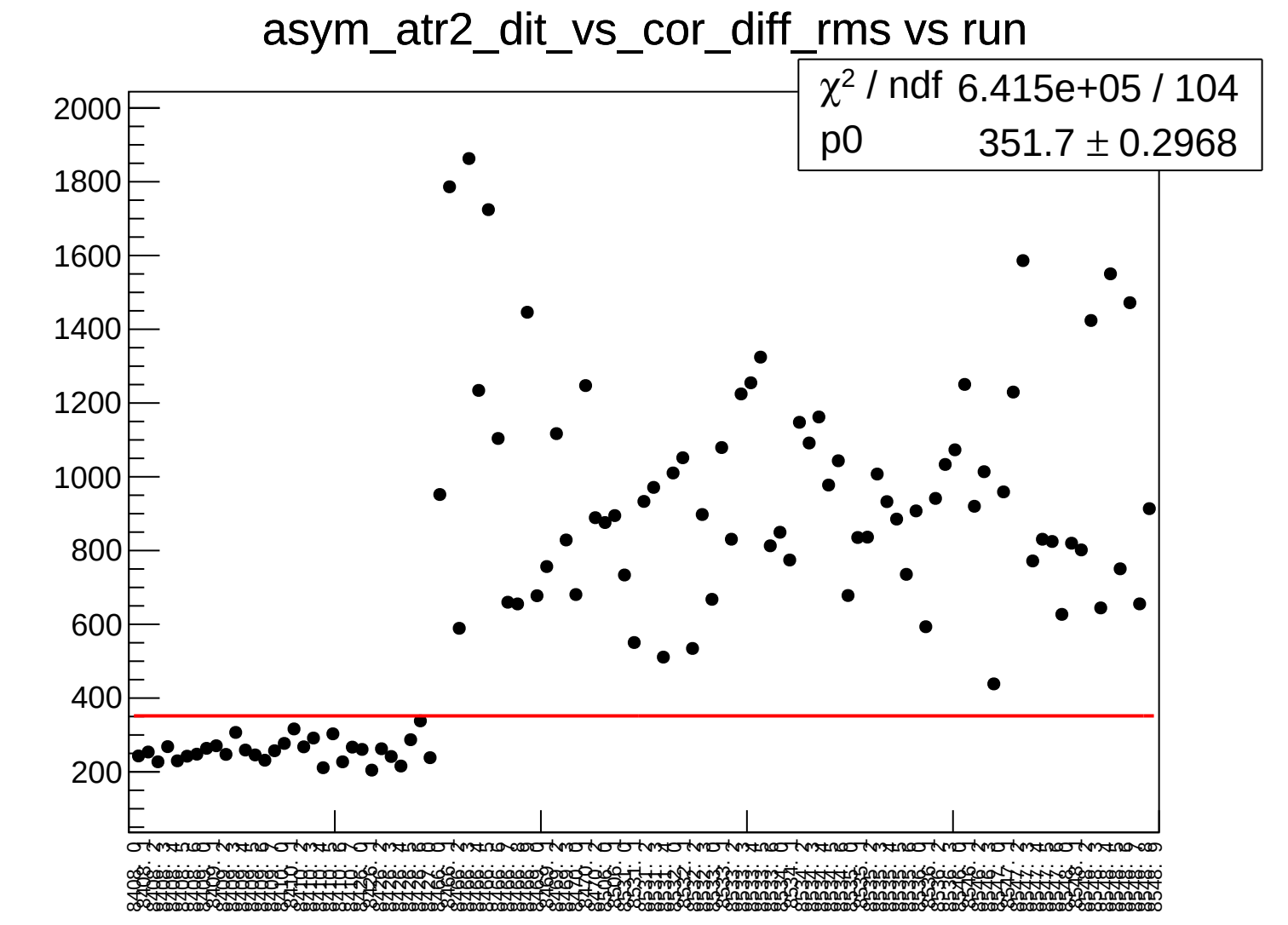

asym_atr2_rms vs run
χ² / ndf 4.162e+05 / 104
p0 2.189e+04 ± 17.15
45000
40000
35000
30000
25000
20000
15000

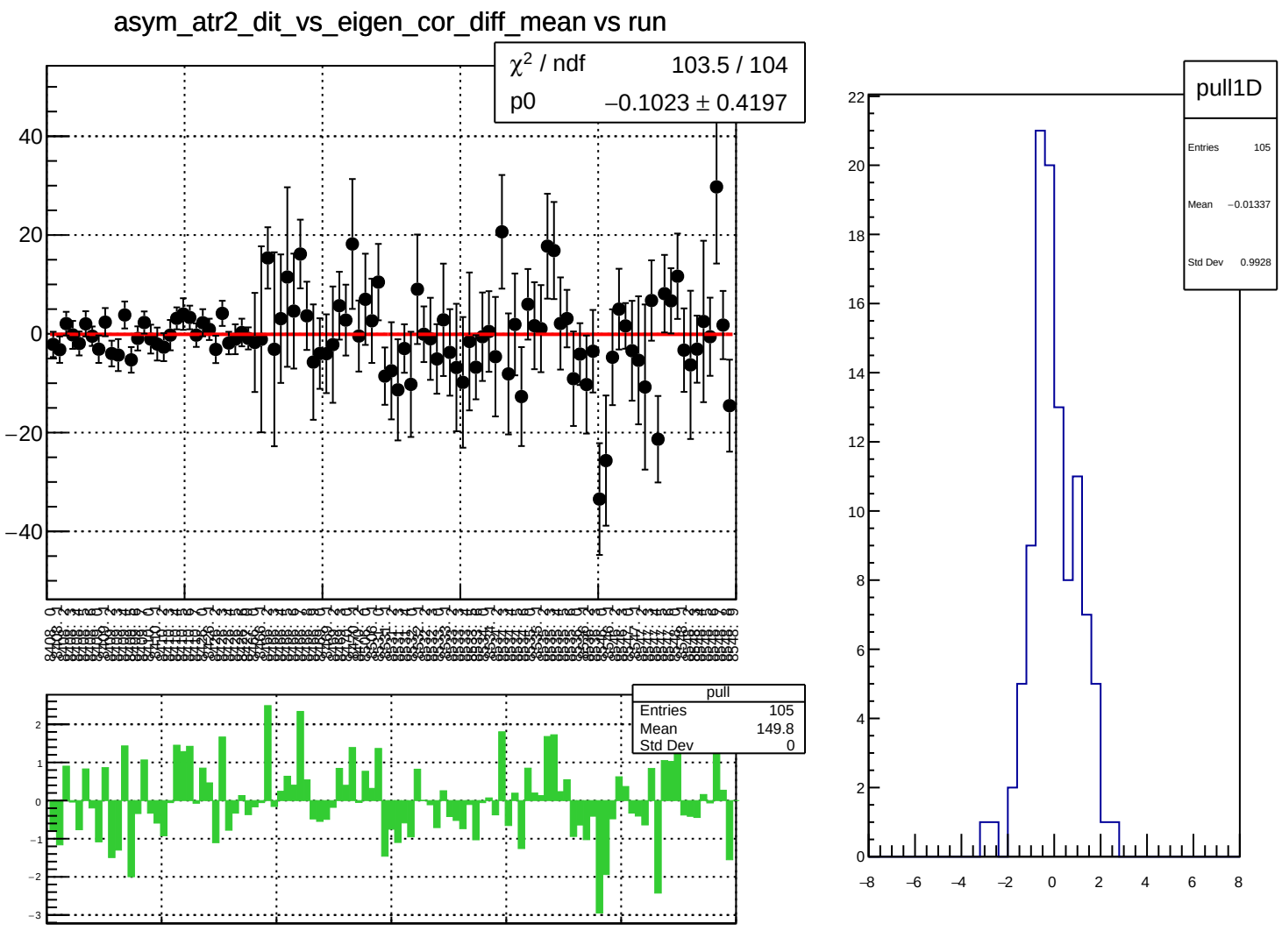

asym_atr2_reg_vs_cor_diff_mean vs run
χ² / ndf 113.6 / 104
p0 1.085e−13 ± 5.518e−13
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 105
Mean −1680
Std Dev 0
2
1
0
−1
−2

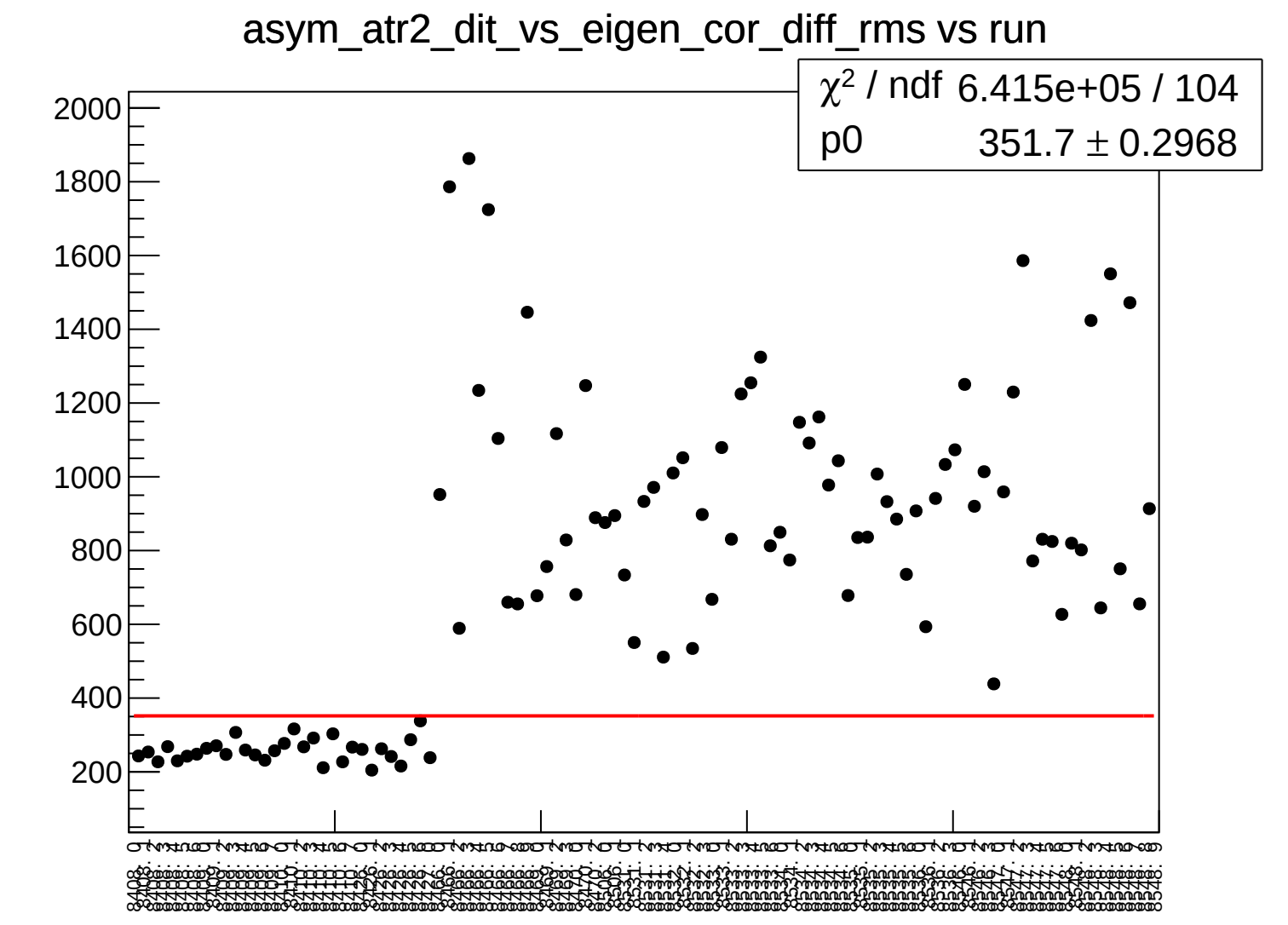

pull1D
Entries 105
Mean 0.002384
Std Dev 1.04
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

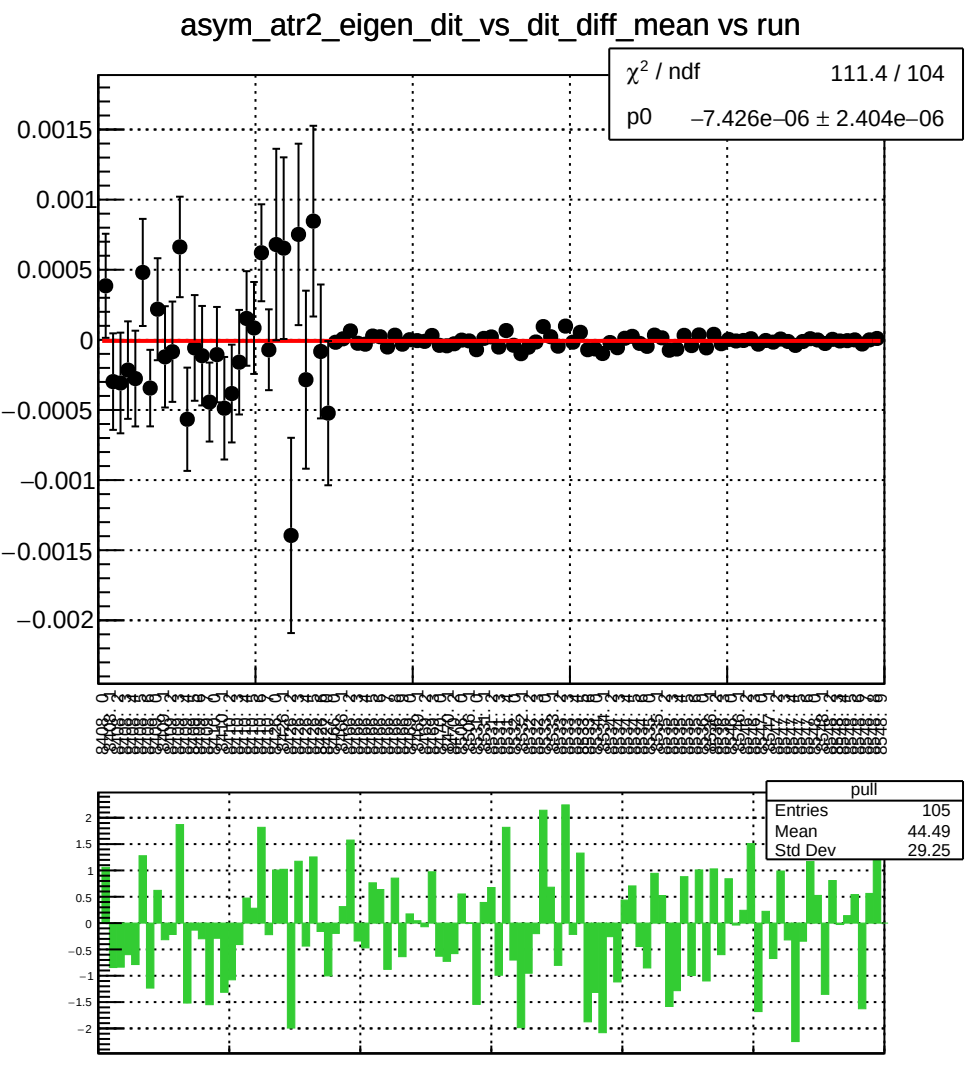

asym_atr2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.578e+06 / 104
p0 2.67e−10 ± 3.902e−13
30
25
20
15
10
5
0

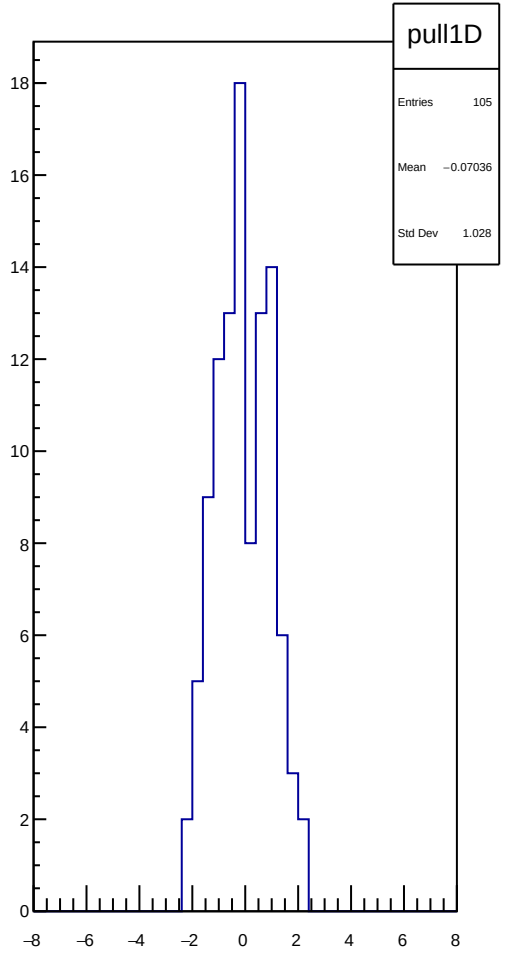

asym_atr2_dit_vs_cor_diff_mean vs run
χ² / ndf 103.5 / 104
p0 −0.1023 ± 0.4197
pull
Entries 105
Mean 149.8
Std Dev 0
pull1D
Entries 105
Mean −0.01337
Std Dev 0.9928

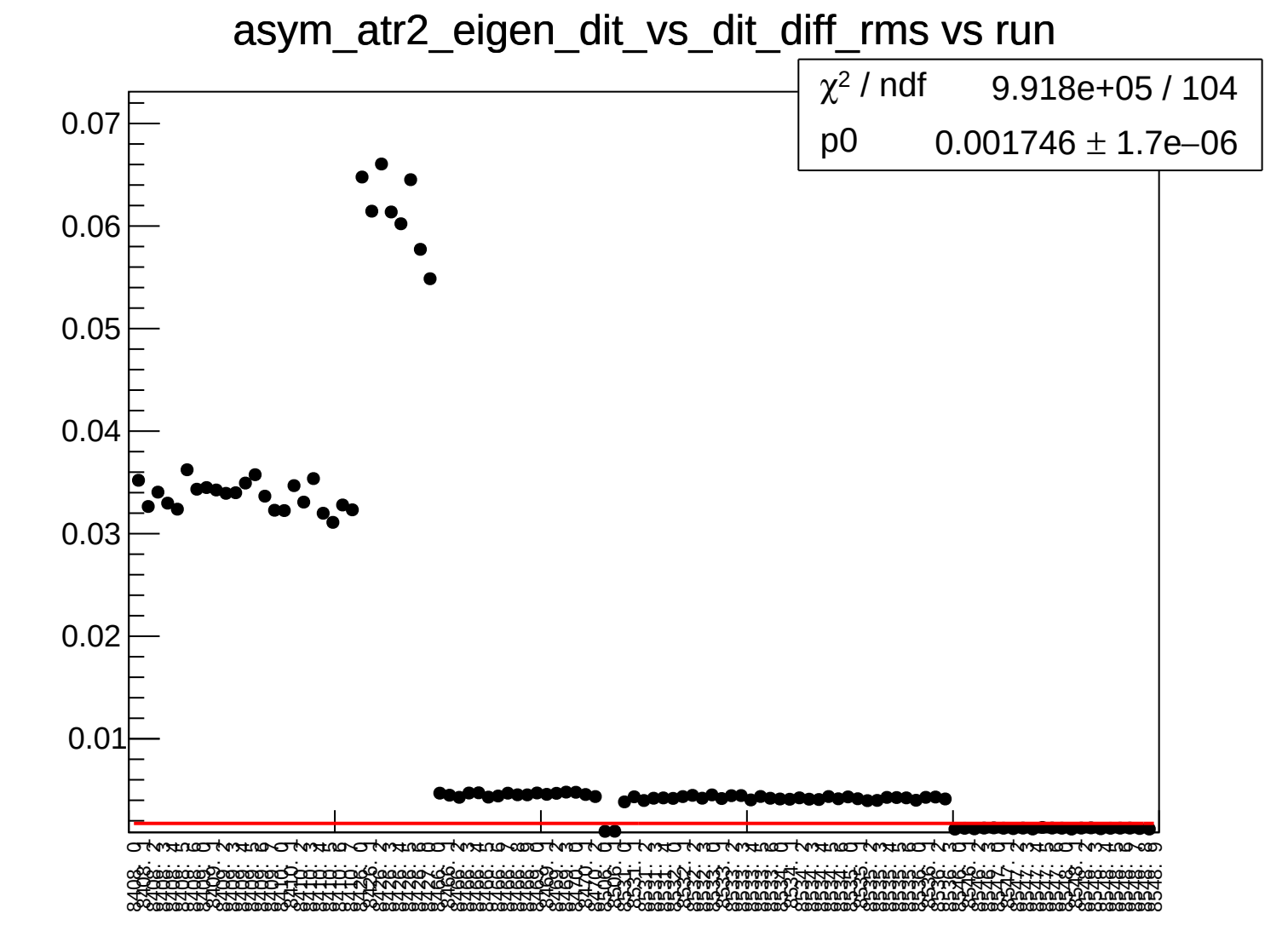

asym_atr2_dit_vs_cor_diff_rms vs run
χ² / ndf 6.415e+05 / 104
p0 351.7 ± 0.2968
2000
1800
1600
1400
1200
1000
800
600
400
200

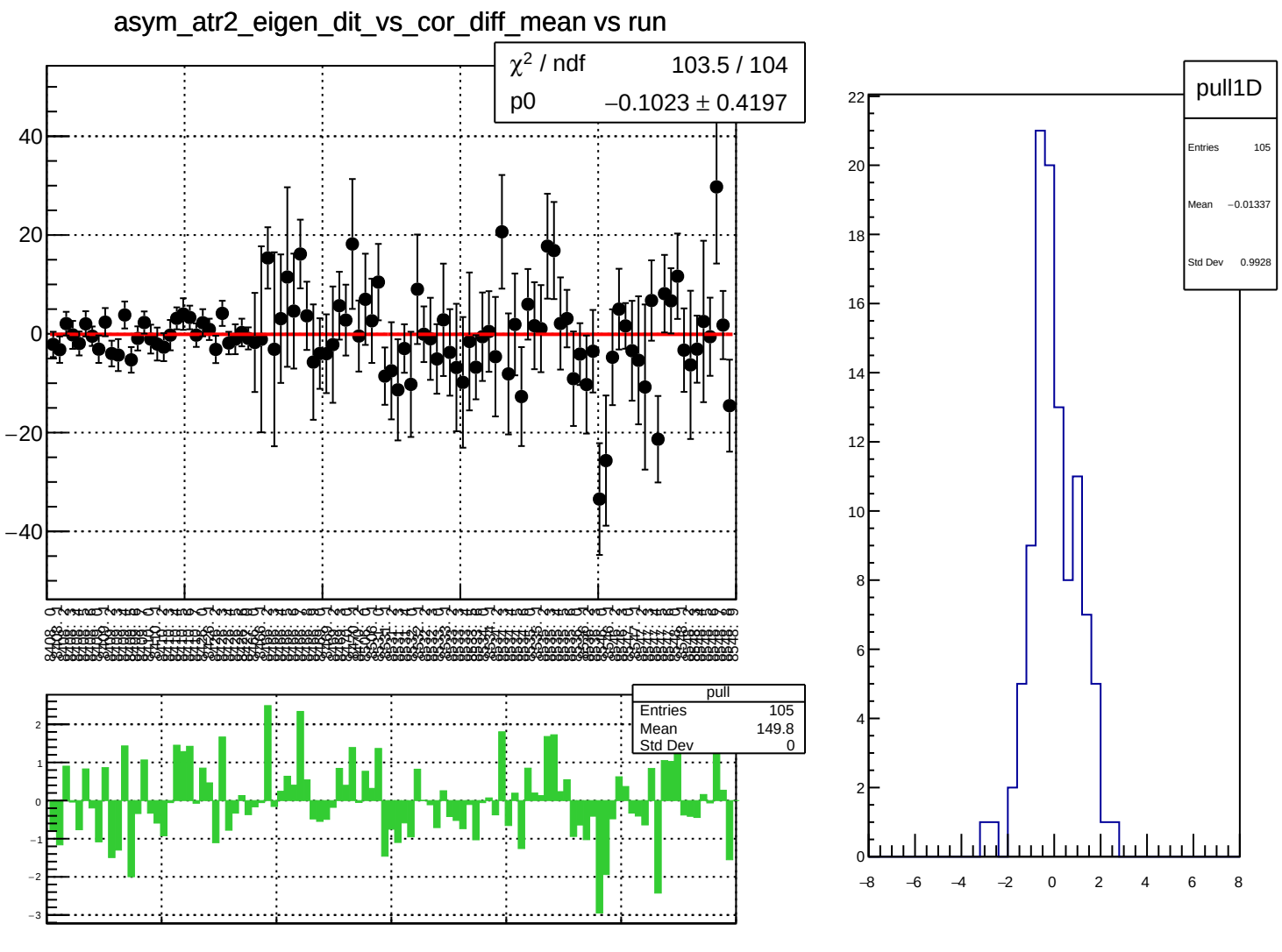

asym_atr2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.5 / 104
p0 −0.1023 ± 0.4197
40
20
0
−20
−40
pull
Entries 105
Mean 149.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 105
Mean −0.01337
Std Dev 0.9928
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

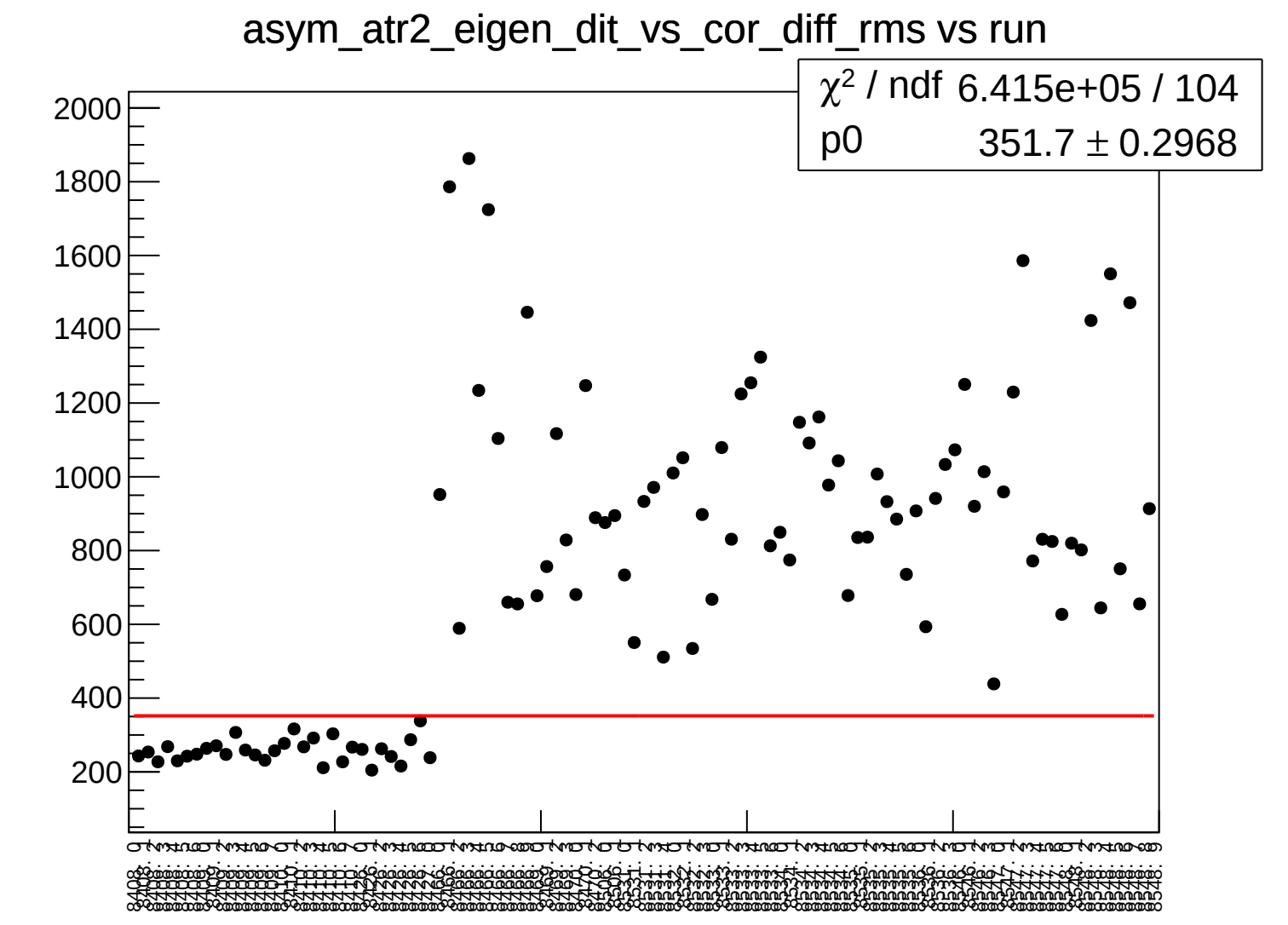

asym_atr2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.415e+05 / 104
p0 351.7 ± 0.2968
2000
1800
1600
1400
1200
1000
800
600
400
200

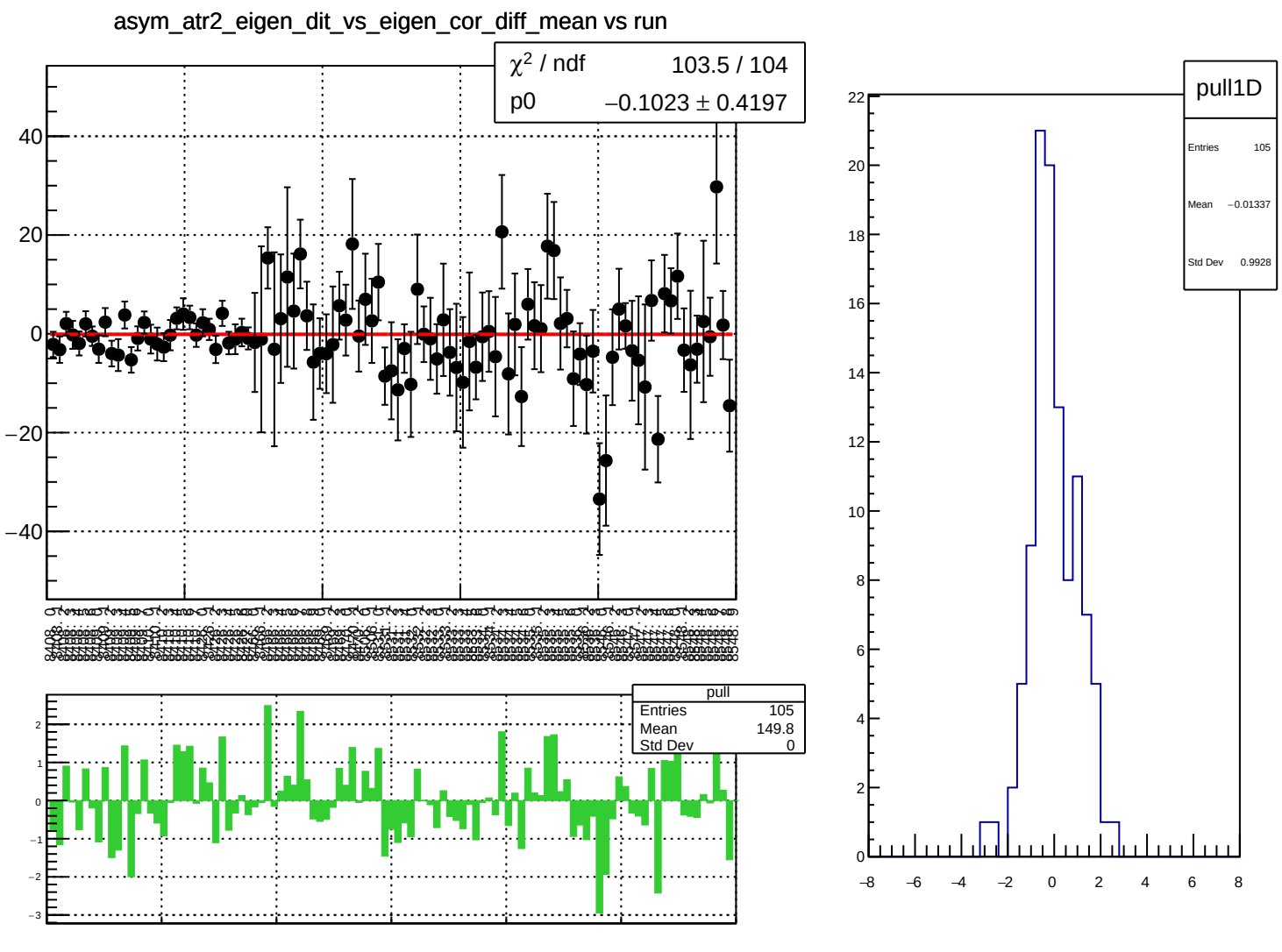

asym_atr2_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 111.4 / 104
p0 −7.426e−06 ± 2.404e−06
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 105
Mean 44.49
Std Dev 29.25
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

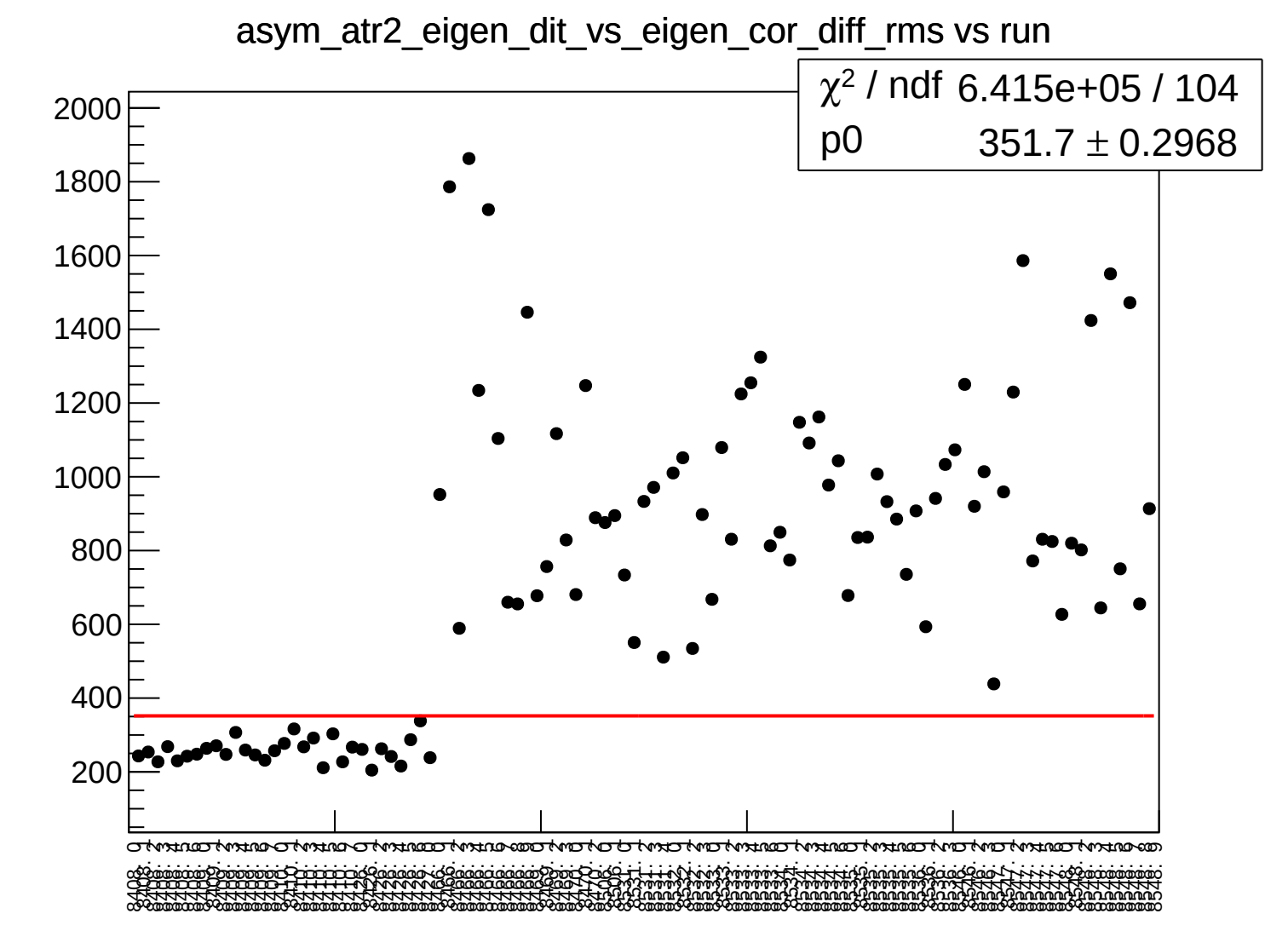

pull1D
Entries 105
Mean −0.07036
Std Dev 1.028
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

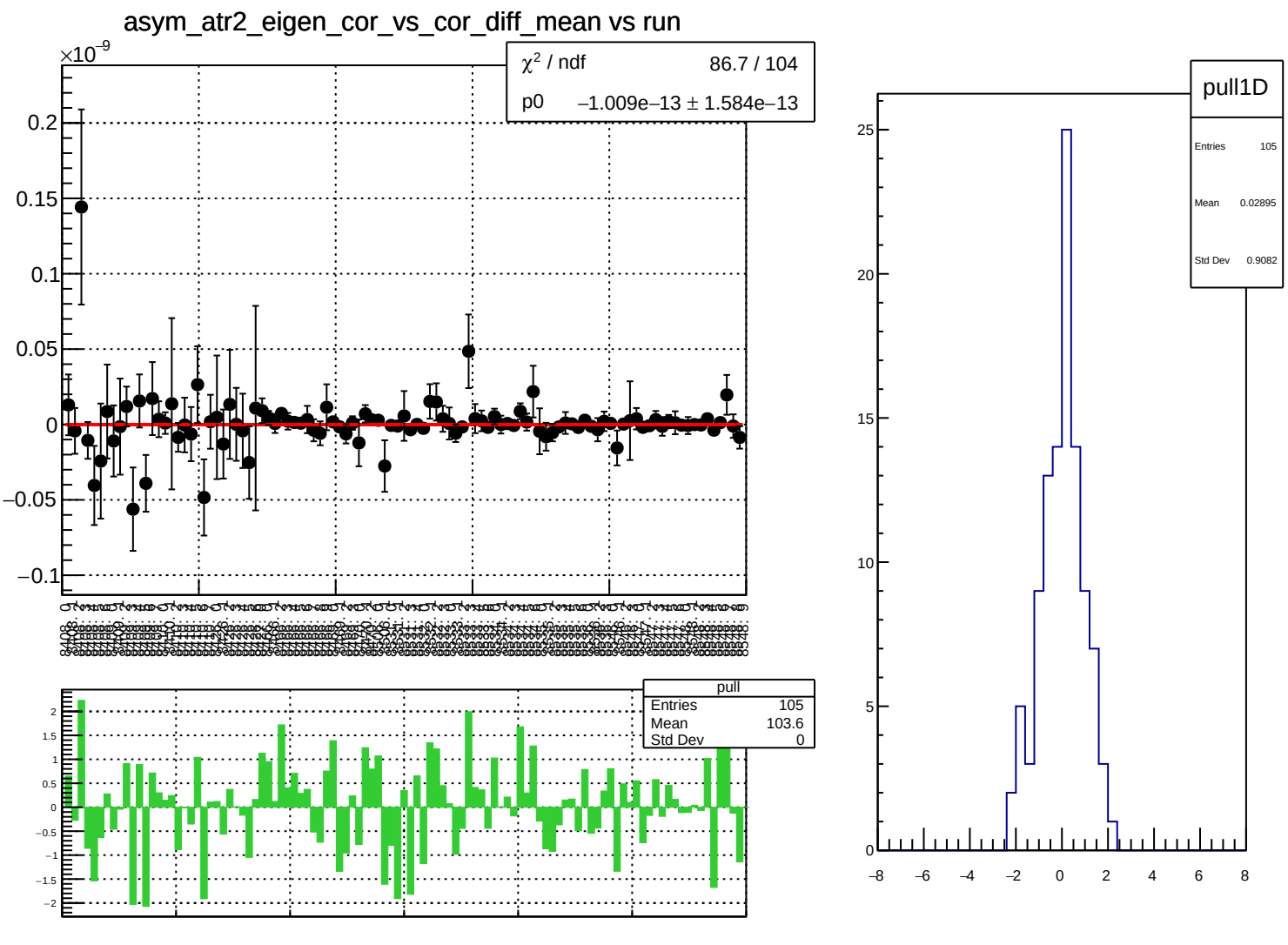

asym_atr2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.918e+05 / 104
p0 0.001746 ± 1.7e−06
0.07
0.06
0.05
0.04
0.03
0.02
0.01

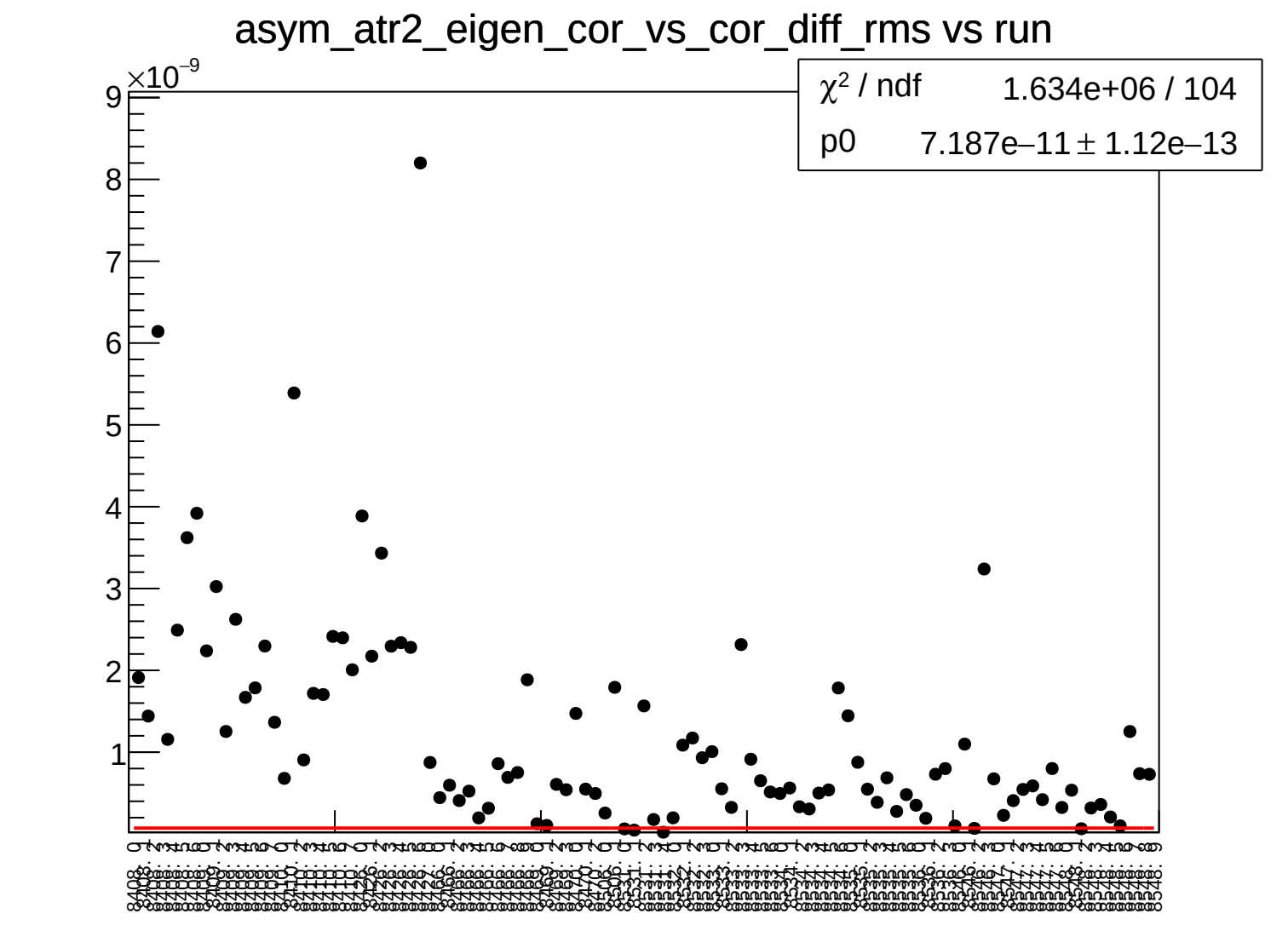

asym_atr2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 103.5 / 104
p0 −0.1023 ± 0.4197
40
20
0
−20
−40
pull
Entries 105
Mean 149.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 105
Mean −0.01337
Std Dev 0.9928
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

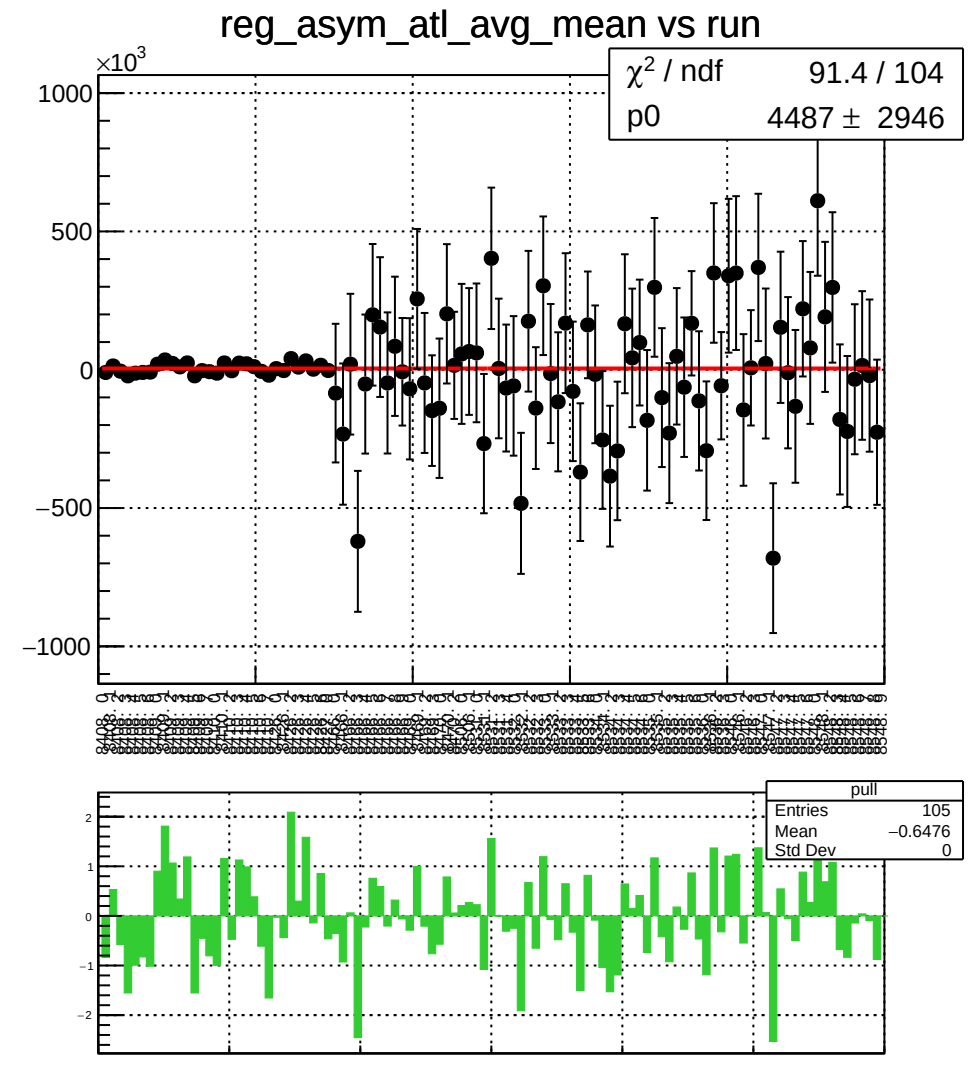

asym_atr2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.415e+05 / 104
p0 351.7 ± 0.2968
2000
1800
1600
1400
1200
1000
800
600
400
200

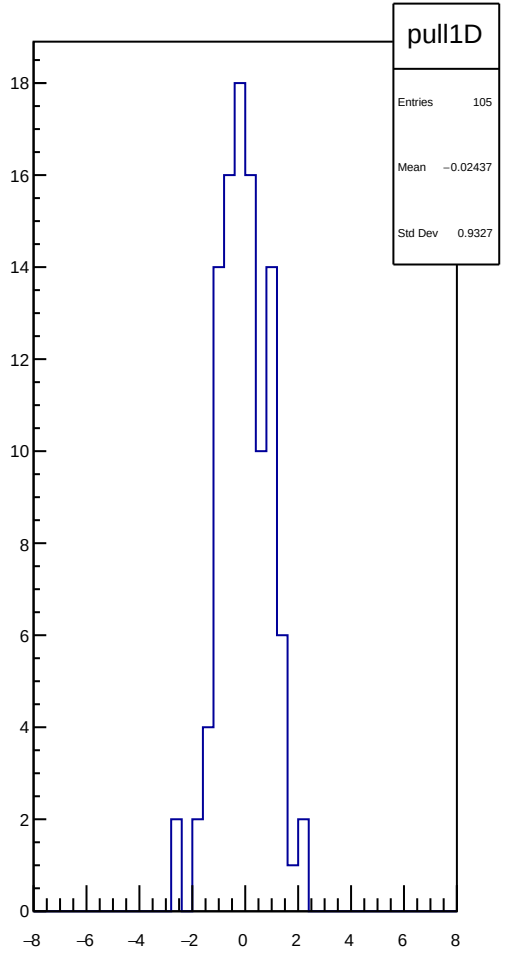

asym_atr2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.5 / 104
p0 −0.1023 ± 0.4197
40
20
0
−20
−40
pull
Entries 105
Mean 149.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 105
Mean −0.01337
Std Dev 0.9928
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

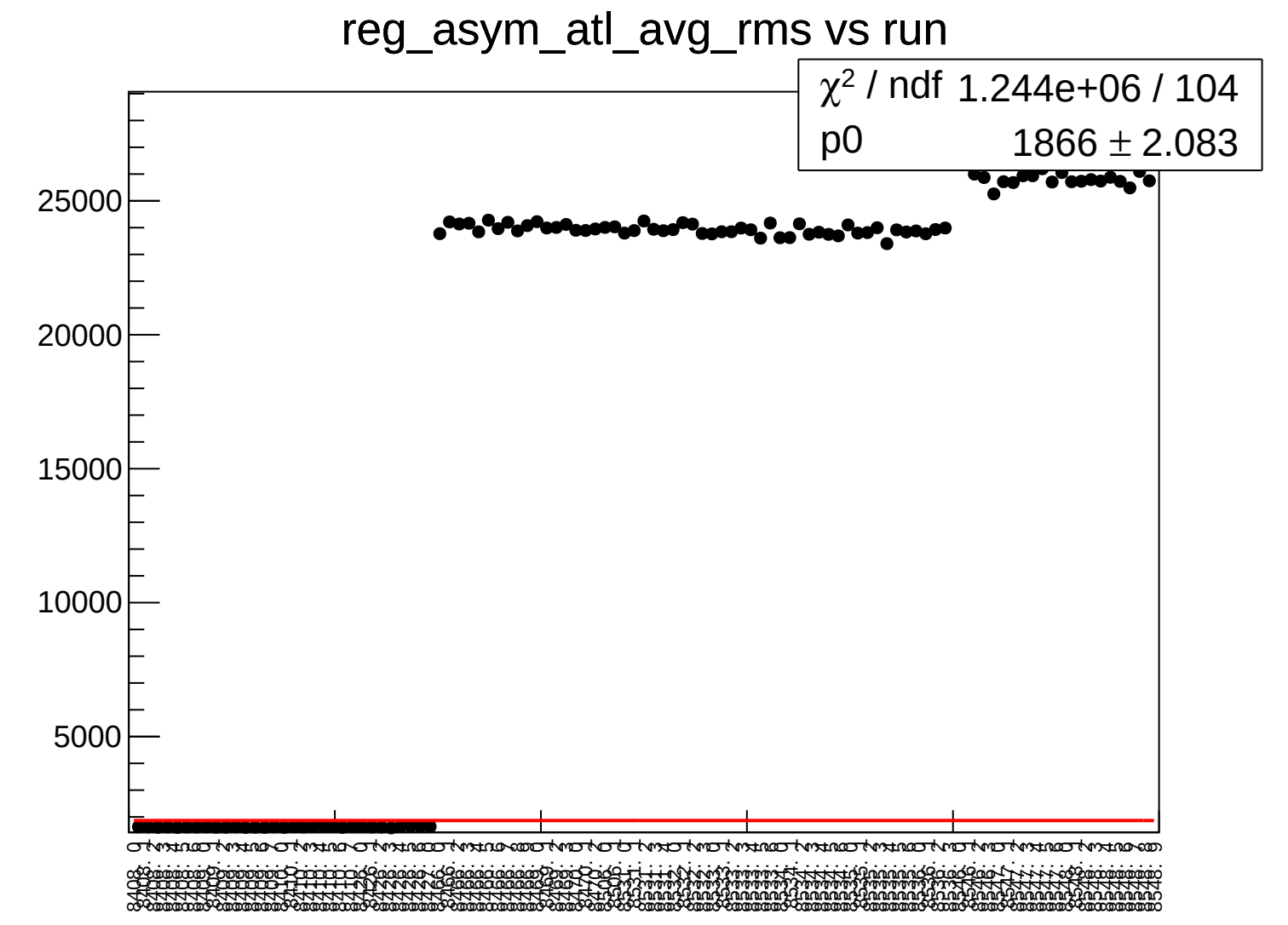

asym_atr2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.415e+05 / 104
p0 351.7 ± 0.2968
2000
1800
1600
1400
1200
1000
800
600
400
200

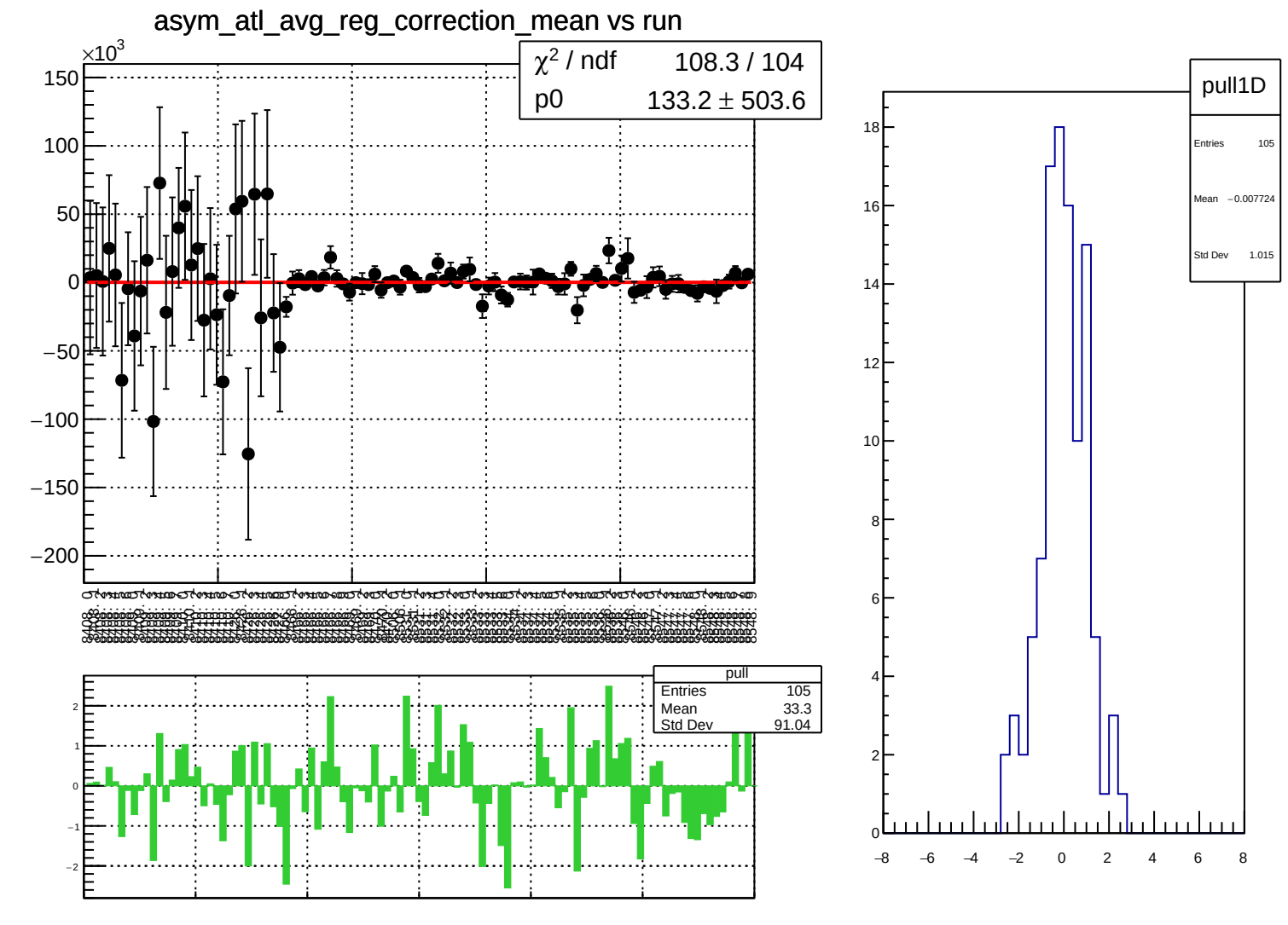

asym_atr2_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 86.7 / 104
p0 −1.009e−13 ± 1.584e−13
0.2
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 105
Mean 103.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 105
Mean 0.02895
Std Dev 0.9082
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

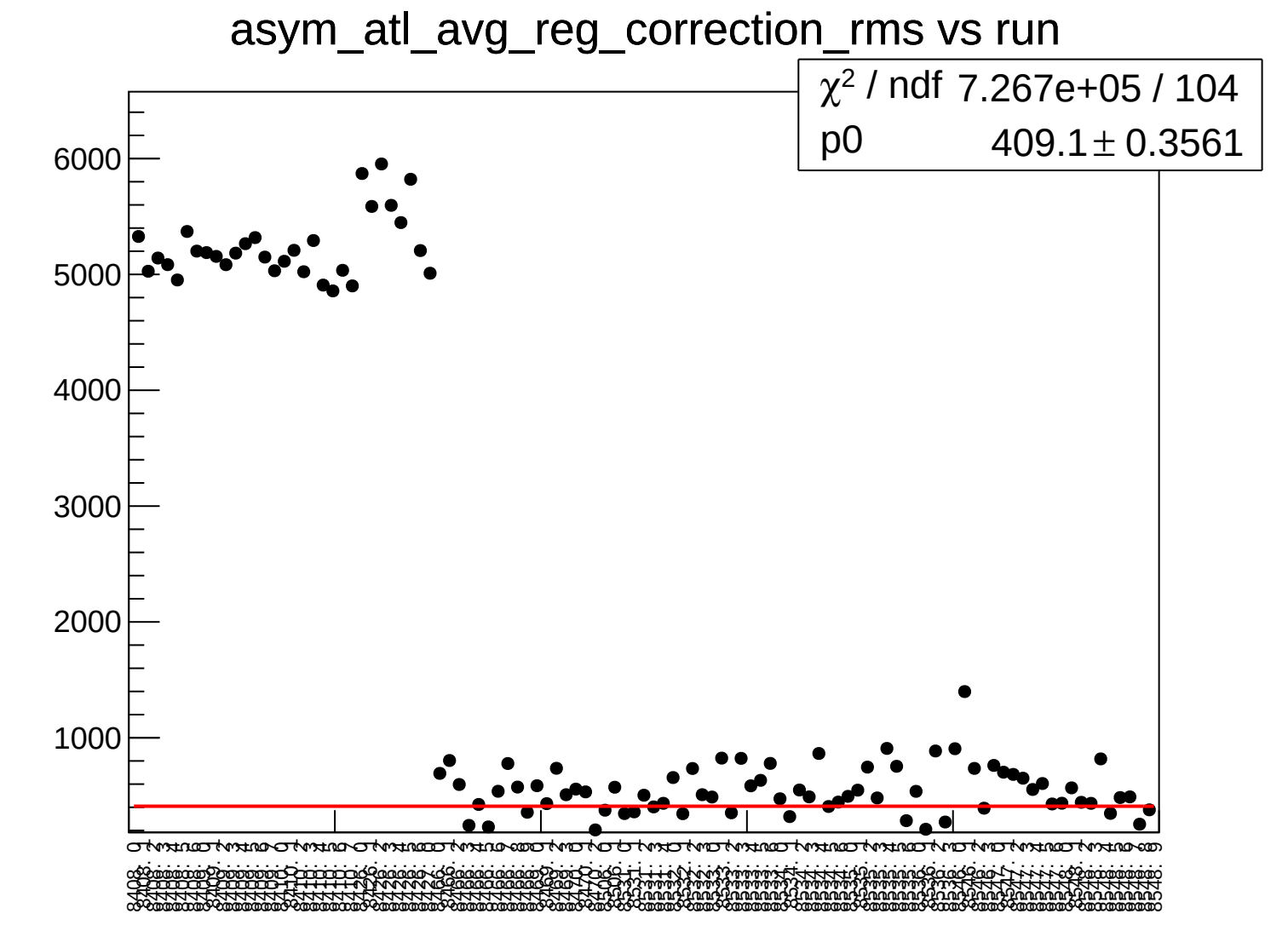

asym_atr2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
9
8
7
6
5
4
3
2
1
χ² / ndf 1.634e+06 / 104
p0 7.187e−11 ± 1.12e−13

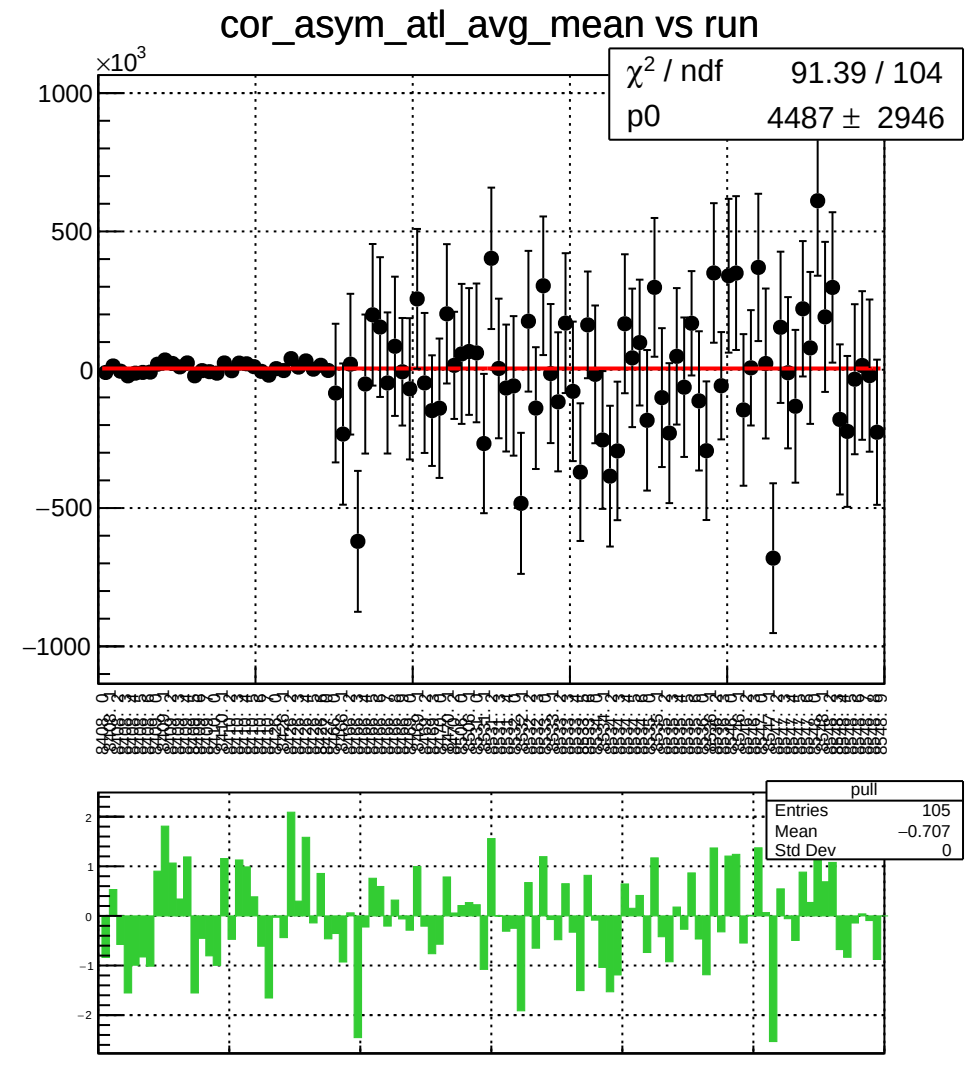

reg_asym_atl_avg_mean vs run
×10^3
χ^2 / ndf 91.4 / 104
p0 4487 ± 2946
pull
Entries 105
Mean −0.6476
Std Dev 0

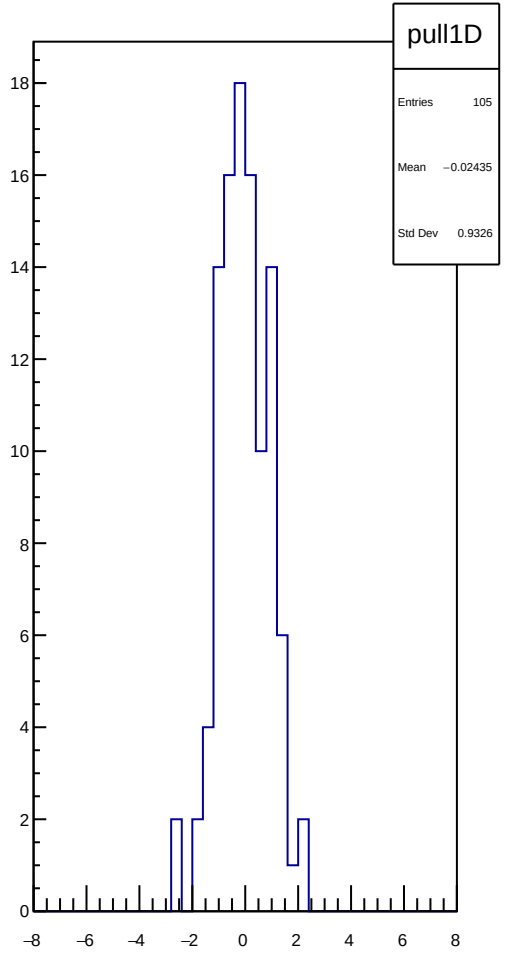

pull1D
Entries 105
Mean −0.02437
Std Dev 0.9327

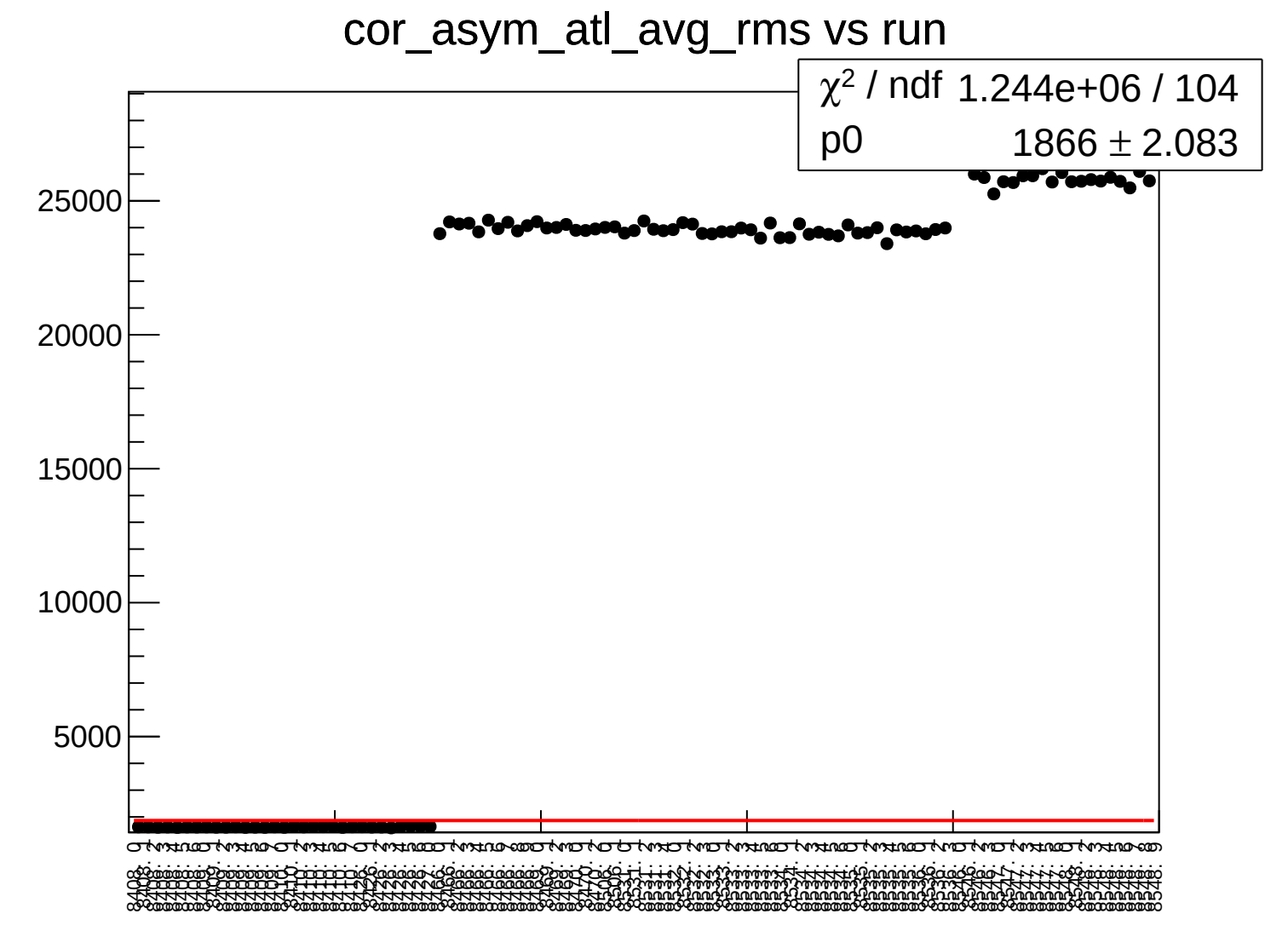

reg_asym_atl_avg_rms vs run
χ² / ndf 1.244e+06 / 104
p0 1866 ± 2.083
25000
20000
15000
10000
5000

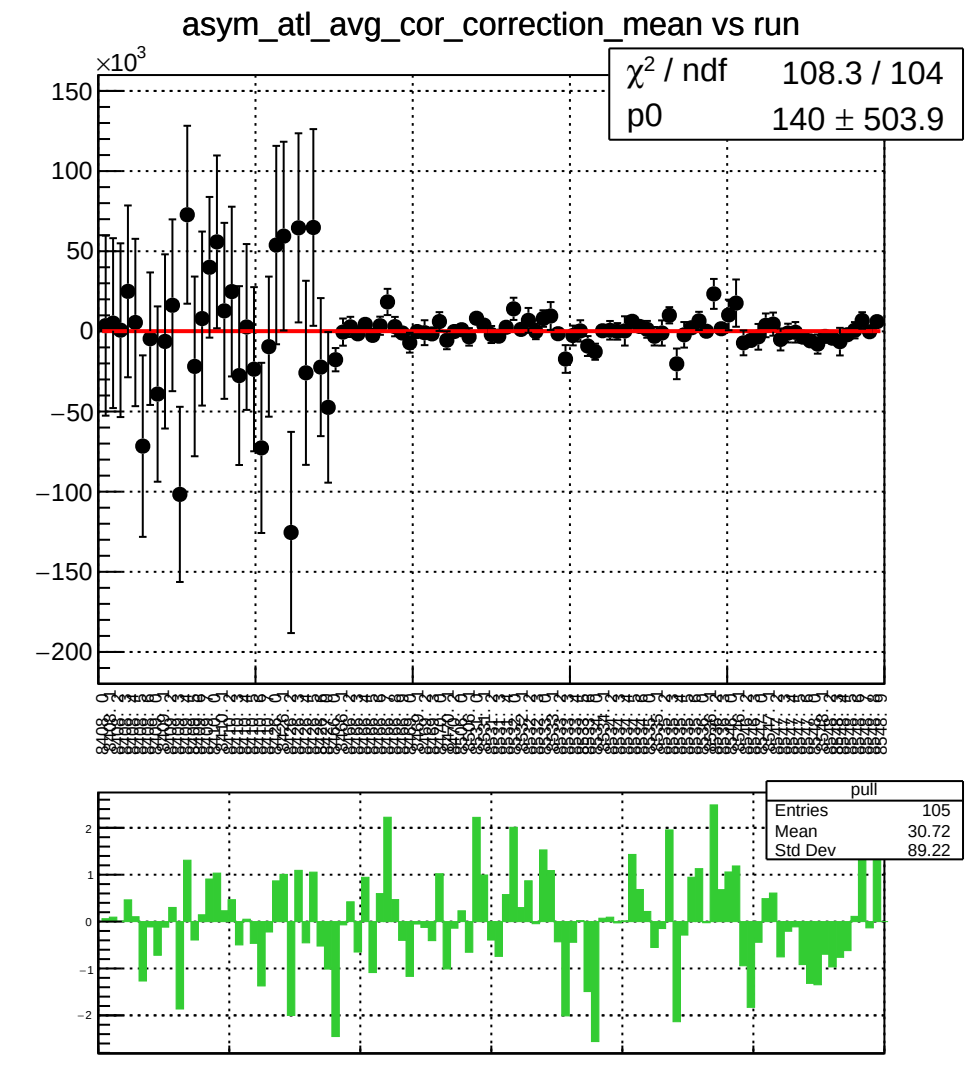

asym_atl_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 108.3 / 104
p0 133.2 ± 503.6
150
100
50
0
−50
−100
−150
−200
pull
Entries 105
Mean 33.3
Std Dev 91.04
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.007724
Std Dev 1.015
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

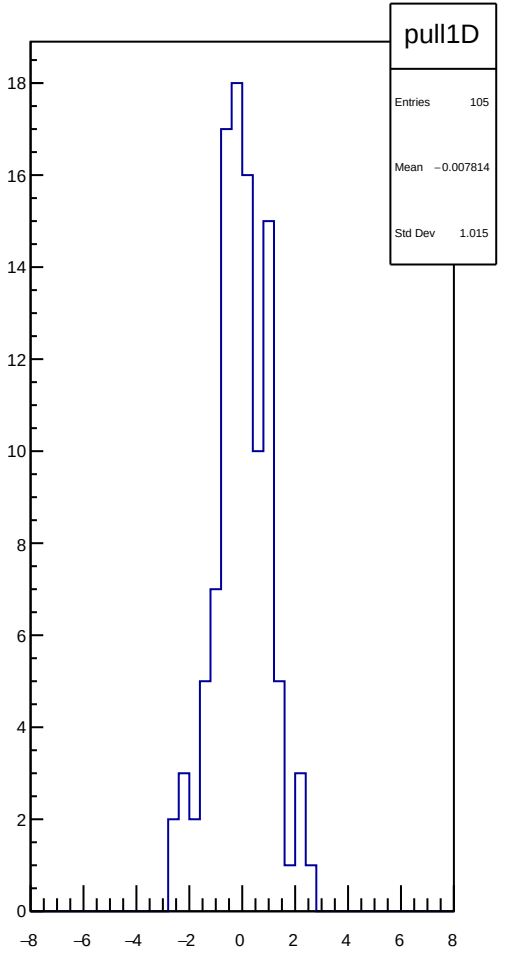

asym_atl_avg_reg_correction_rms vs run
χ² / ndf 7.267e+05 / 104
p0 409.1 ± 0.3561
6000
5000
4000
3000
2000
1000

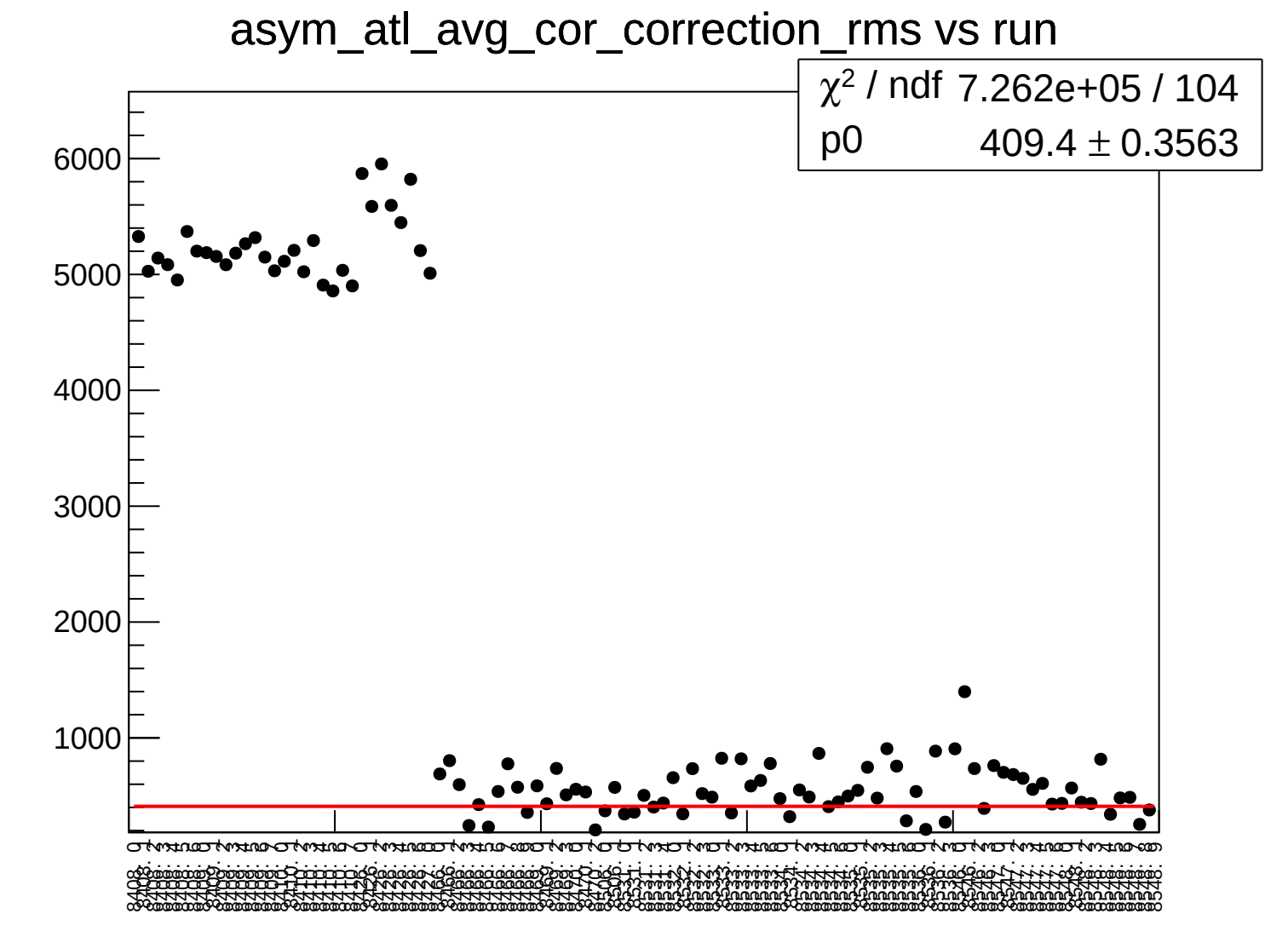

cor_asym_atl_avg_mean vs run
×10^3
1000
500
0
−500
−1000
χ² / ndf 91.39 / 104
p0 4487 ± 2946
pull
Entries 105
Mean −0.707
Std Dev 0
2
1
0
−1
−2

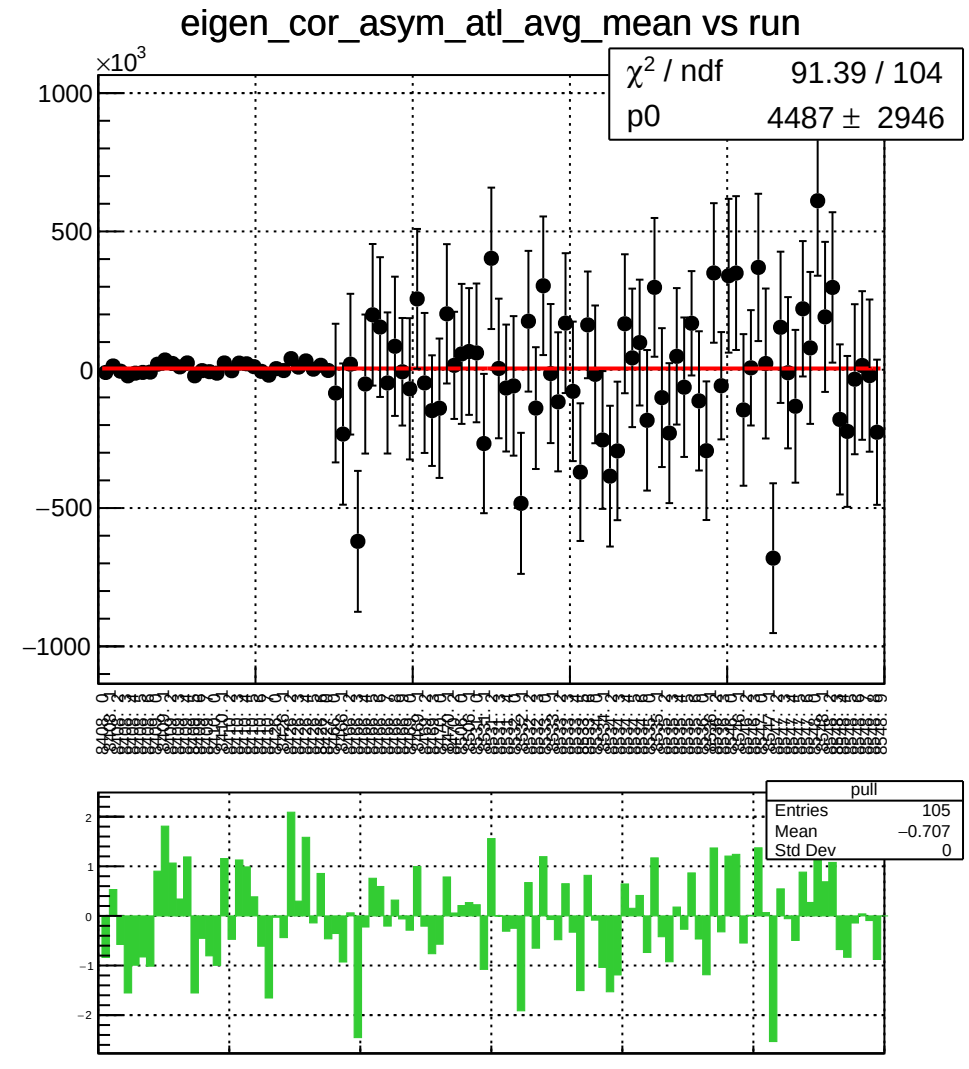

pull1D
Entries 105
Mean −0.02435
Std Dev 0.9326
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

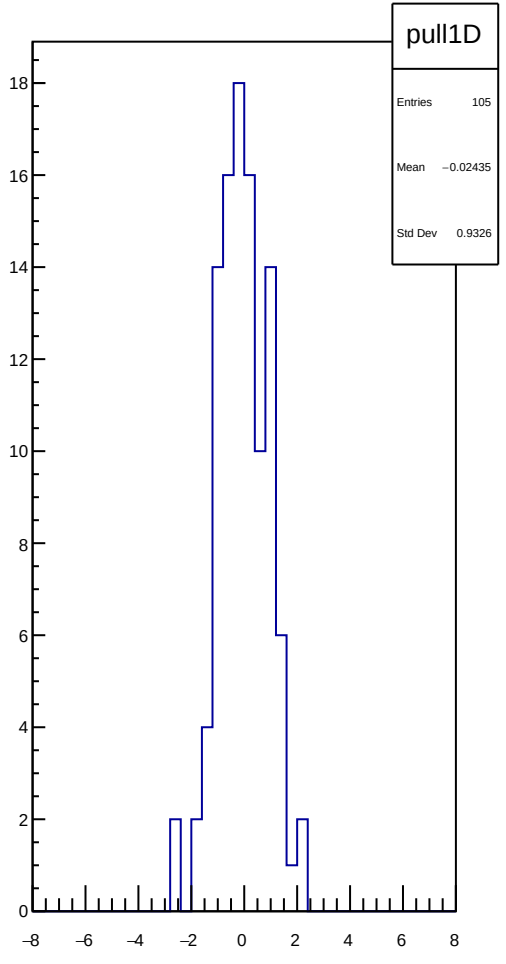

cor_asym_atl_avg_rms vs run
χ² / ndf 1.244e+06 / 104
p0 1866 ± 2.083
25000
20000
15000
10000
5000

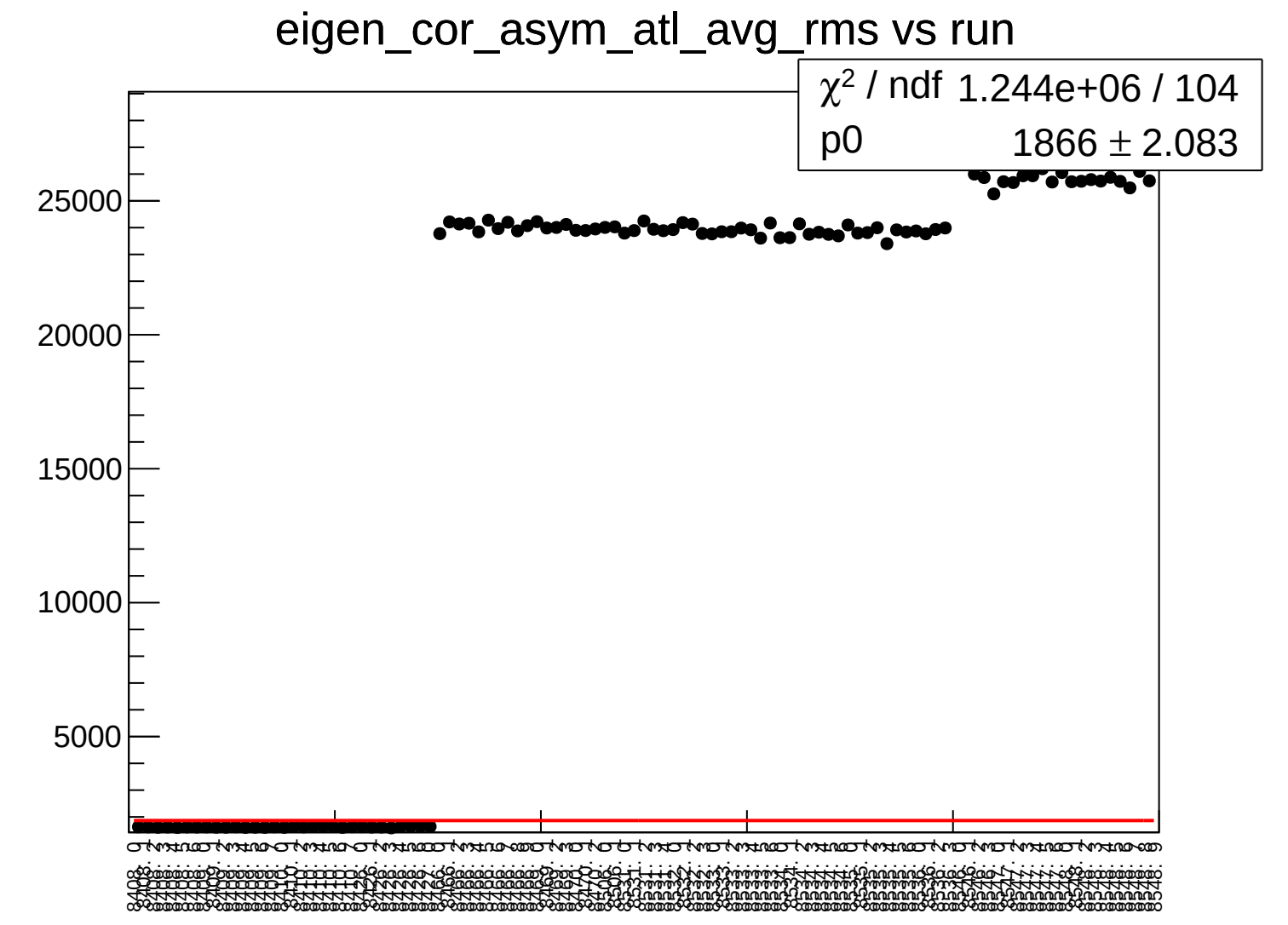

asym_atl_avg_cor_correction_mean vs run
×10^3
χ² / ndf 108.3 / 104
p0 140 ± 503.9
150
100
50
0
−50
−100
−150
−200
pull
Entries 105
Mean 30.72
Std Dev 89.22
2
1
0
−1
−2

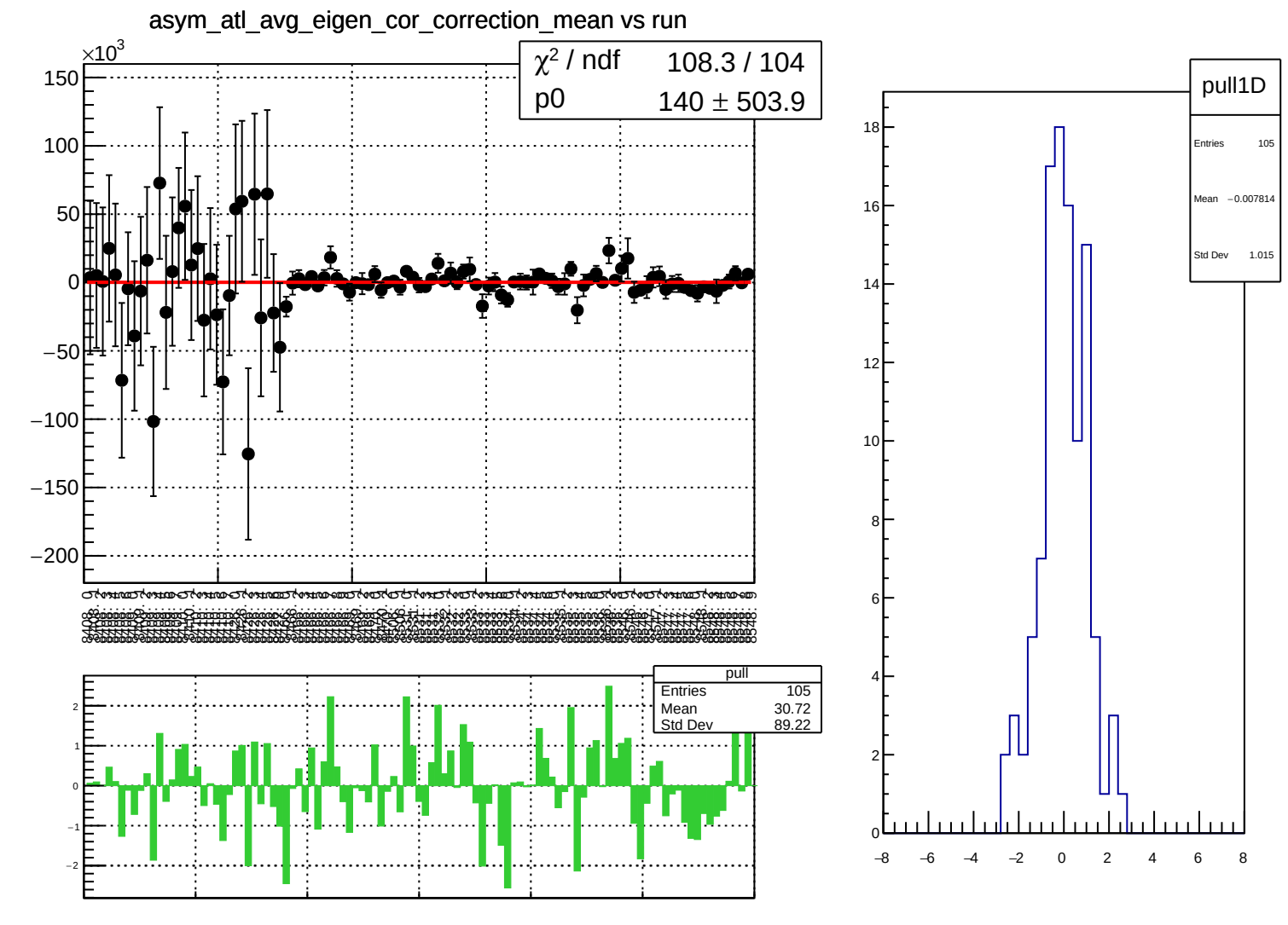

pull1D
Entries 105
Mean −0.007814
Std Dev 1.015
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

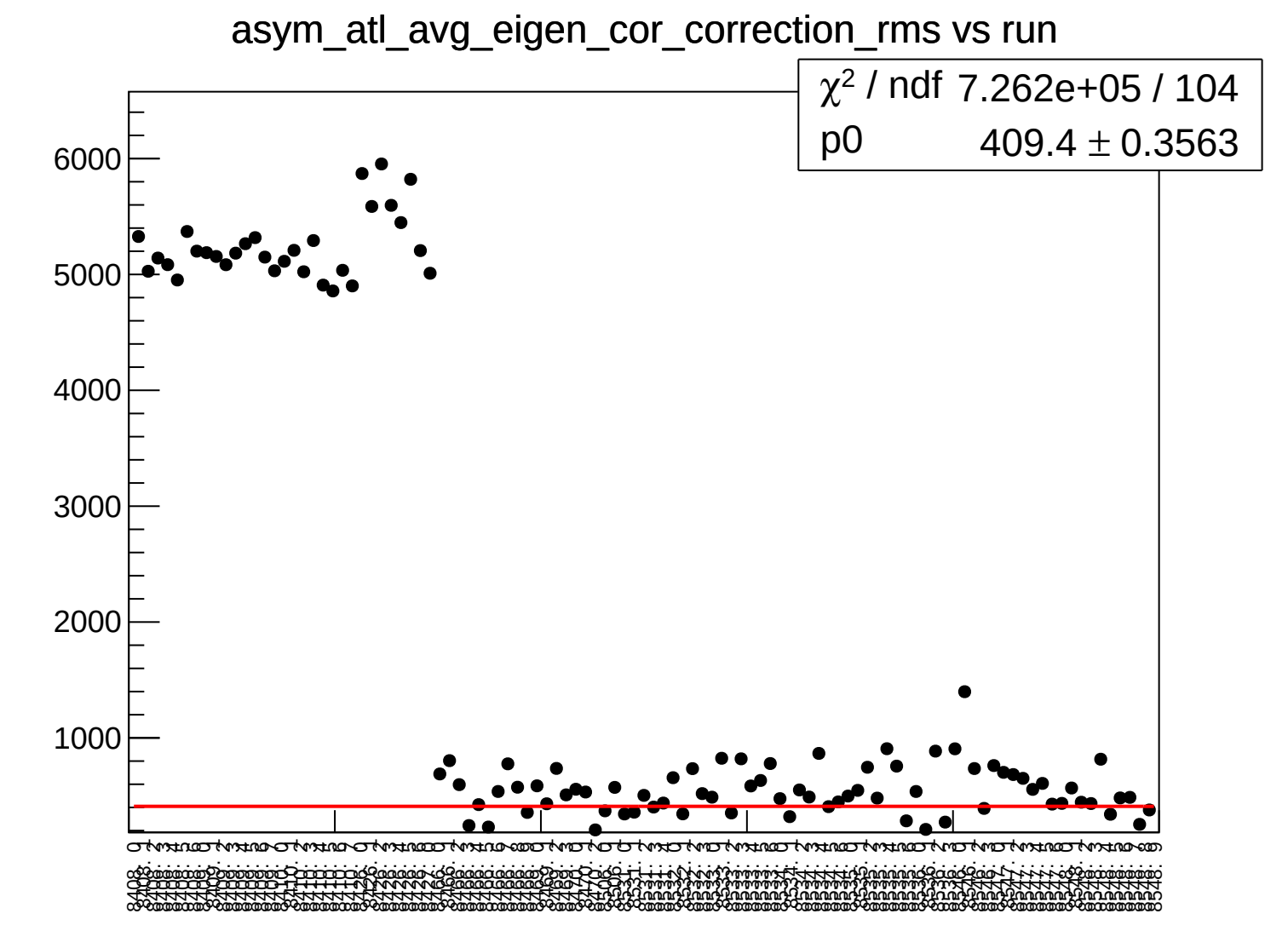

asym_atl_avg_cor_correction_rms vs run
χ² / ndf 7.262e+05 / 104
p0 409.4 ± 0.3563
6000
5000
4000
3000
2000
1000

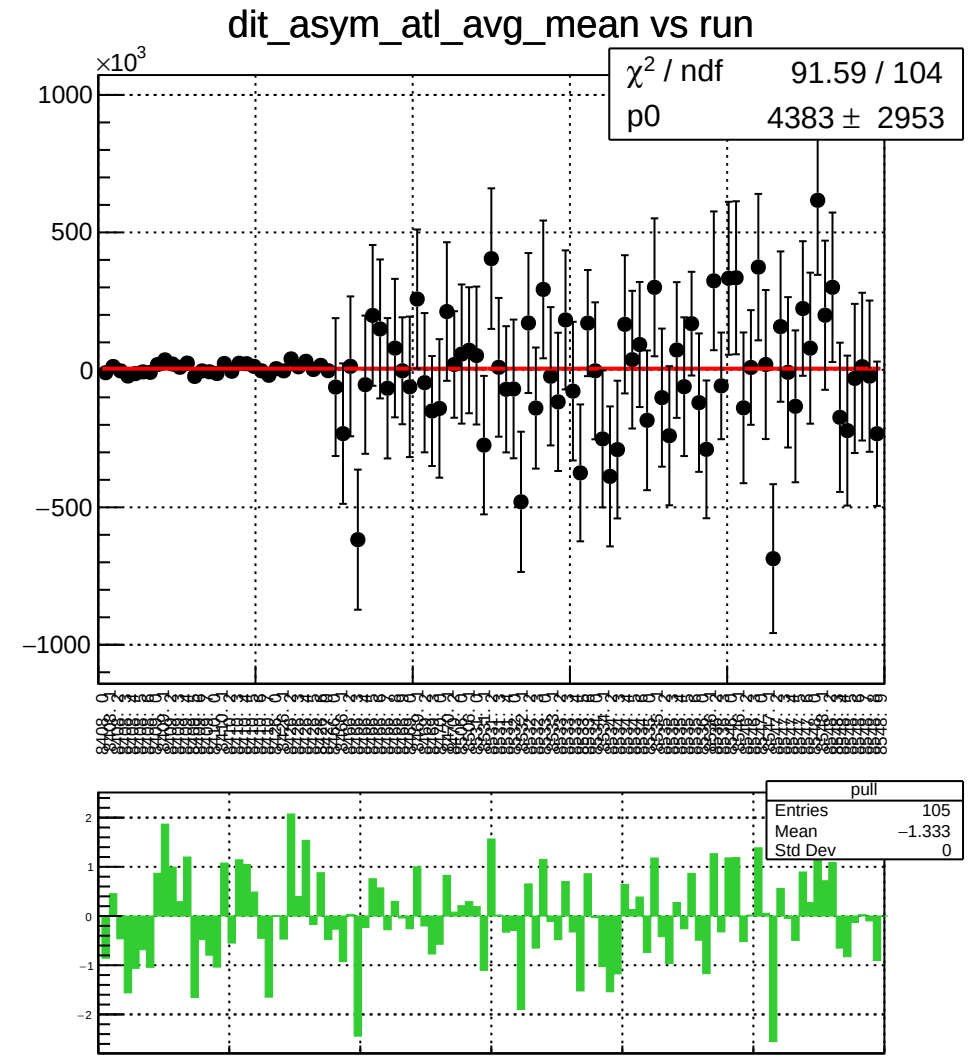

eigen_cor_asym_atl_avg_mean vs run
×10^3
1000
500
0
−500
−1000
χ² / ndf 91.39 / 104
p0 4487 ± 2946
pull
Entries 105
Mean −0.707
Std Dev 0
2
1
0
−1
−2

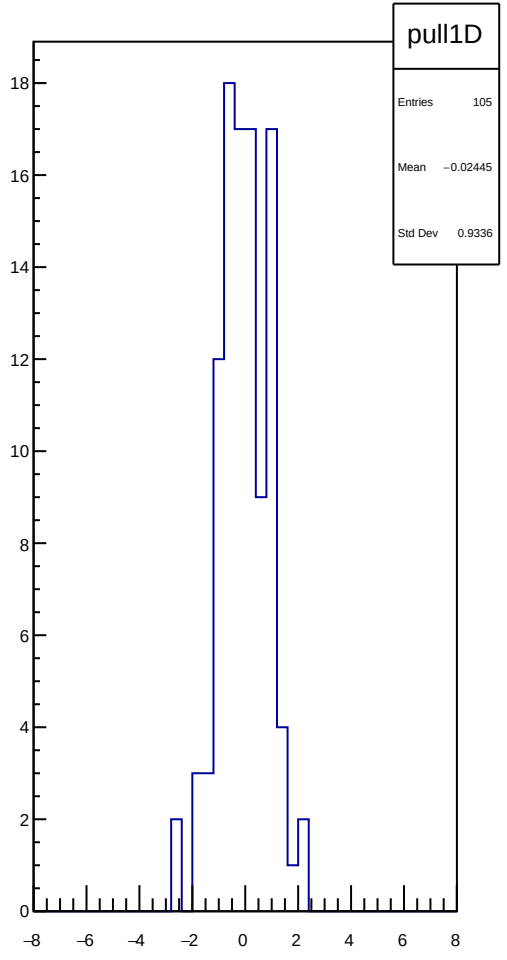

pull1D
Entries 105
Mean −0.02435
Std Dev 0.9326
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

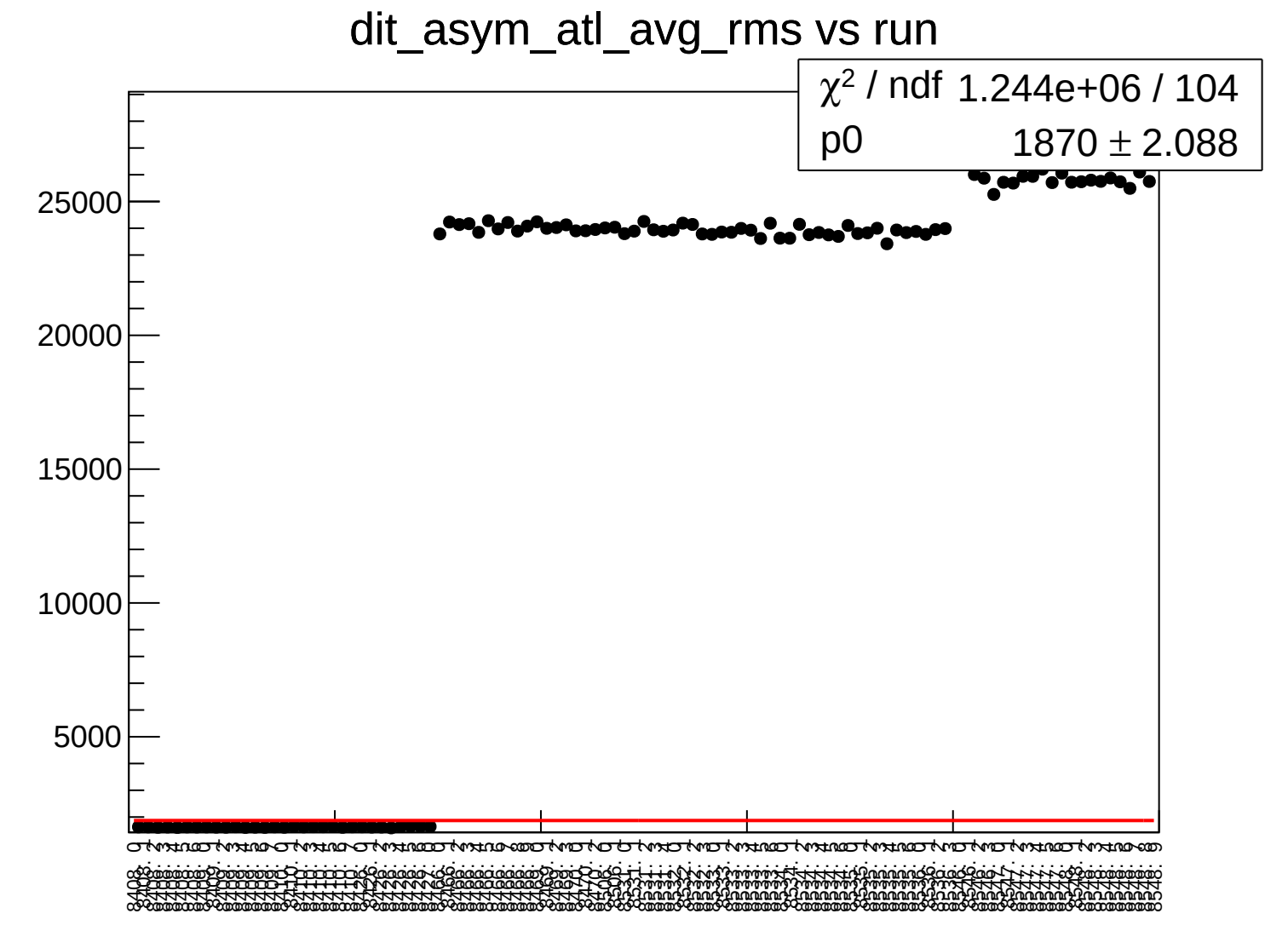

eigen_cor_asym_atl_avg_rms vs run
χ² / ndf 1.244e+06 / 104
p0 1866 ± 2.083
25000
20000
15000
10000
5000

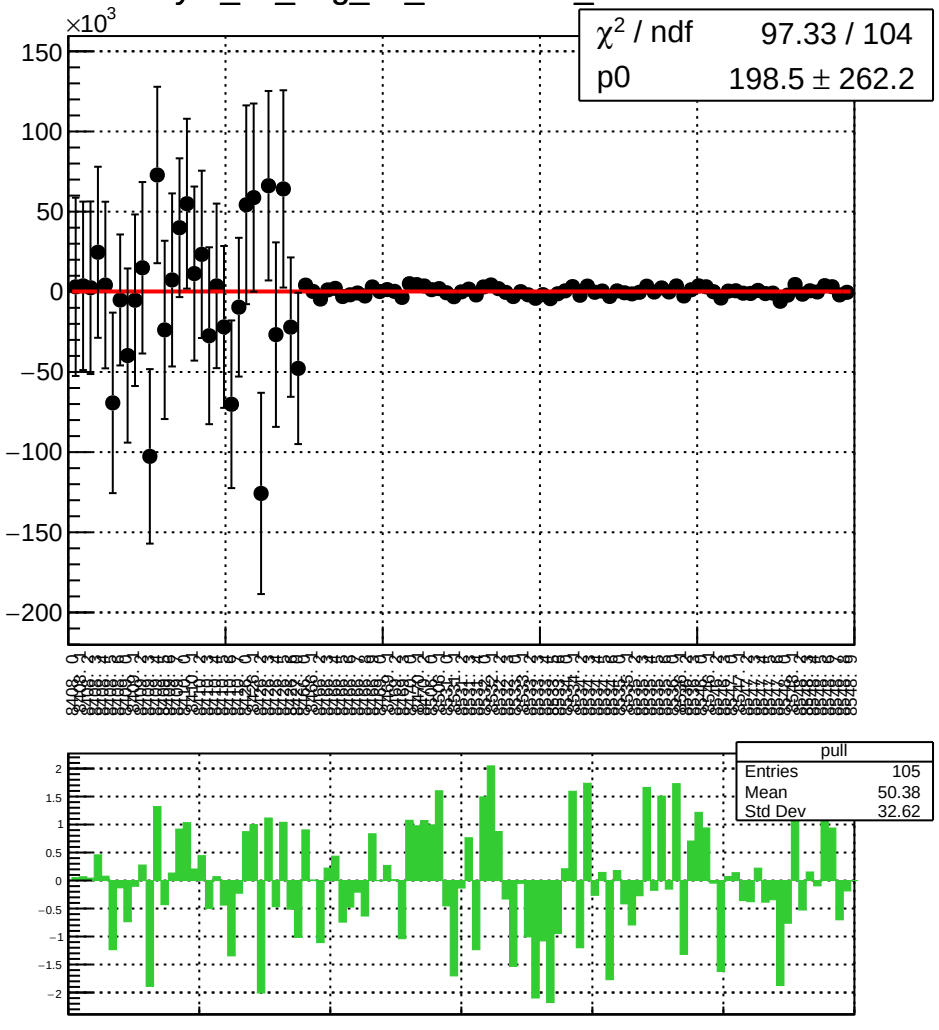

asym_atl_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 108.3 / 104
p0 140 ± 503.9
150
100
50
0
−50
−100
−150
−200
pull
Entries 105
Mean 30.72
Std Dev 89.22
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.007814
Std Dev 1.015
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

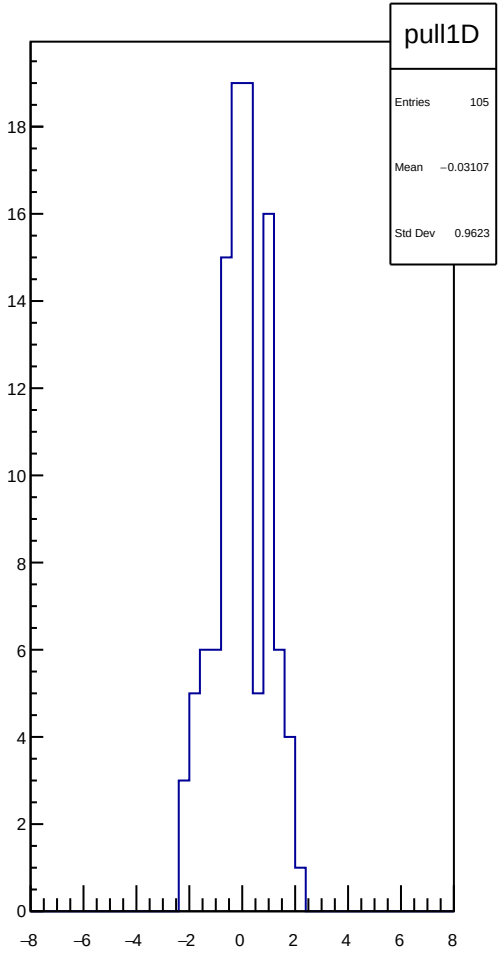

asym_atl_avg_eigen_cor_correction_rms vs run
χ² / ndf 7.262e+05 / 104
p0 409.4 ± 0.3563
6000
5000
4000
3000
2000
1000

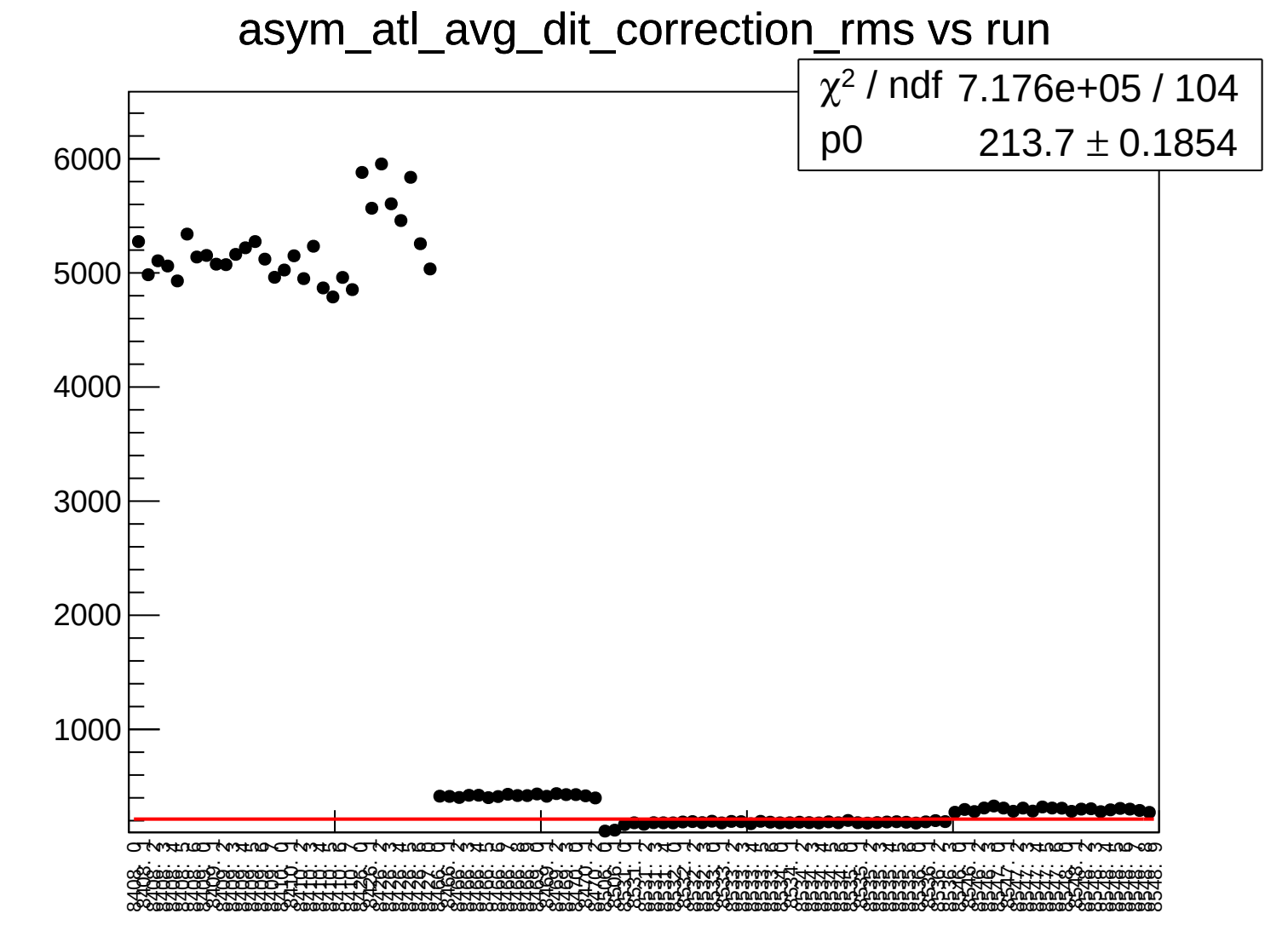

dit_asym_atl_avg_mean vs run
×10^3
χ^2 / ndf 91.59 / 104
p0 4383 ± 2953
1000
500
0
−500
−1000
pull
Entries 105
Mean −1.333
Std Dev 0
2
1
0
−1
−2

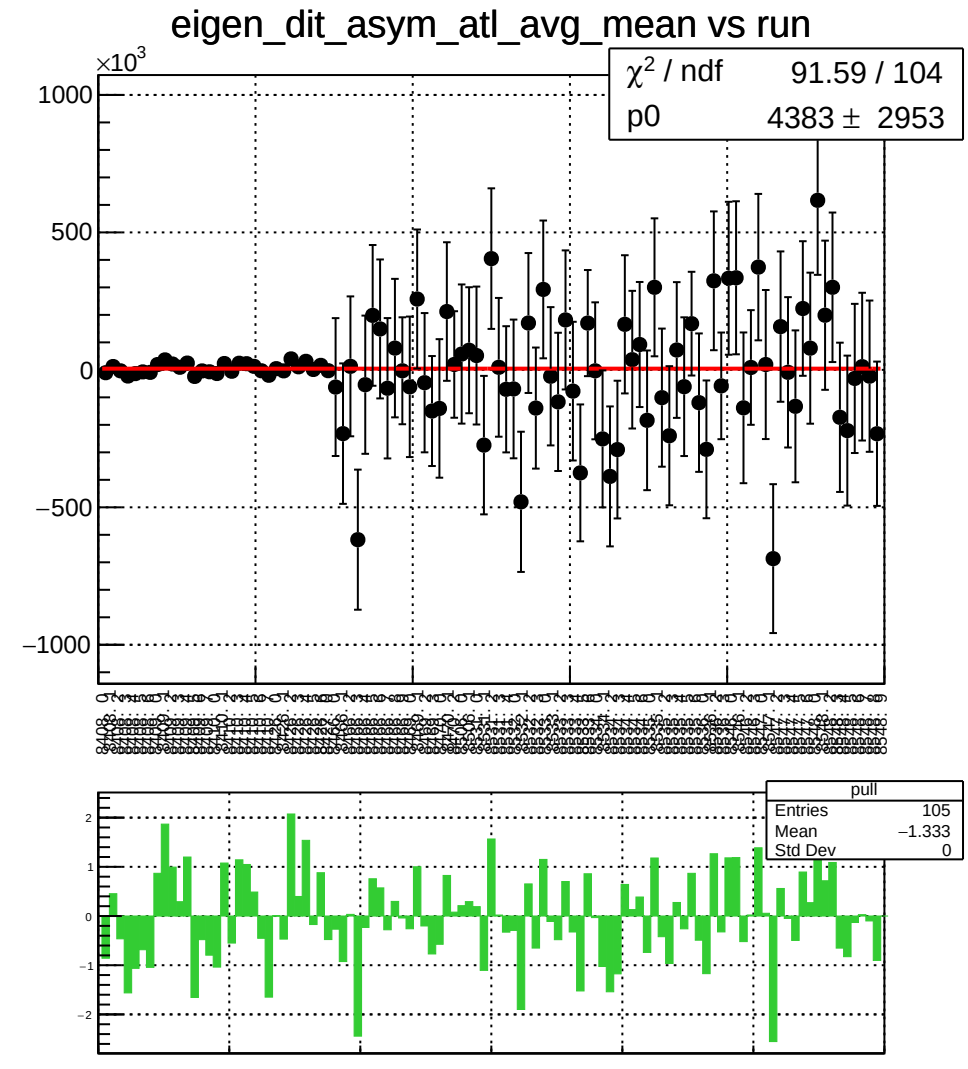

pull1D
Entries 105
Mean −0.02445
Std Dev 0.9336
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

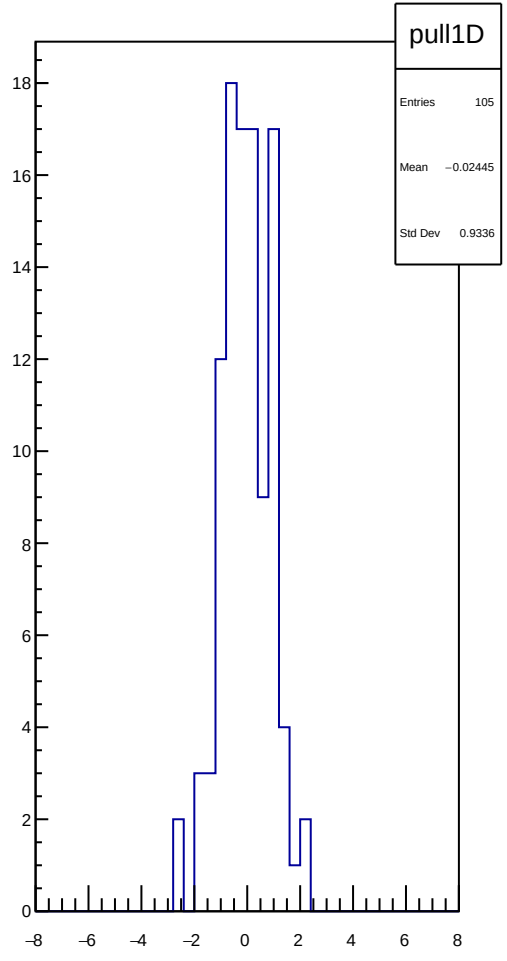

dit_asym_atl_avg_rms vs run
χ² / ndf 1.244e+06 / 104
p0 1870 ± 2.088
25000
20000
15000
10000
5000

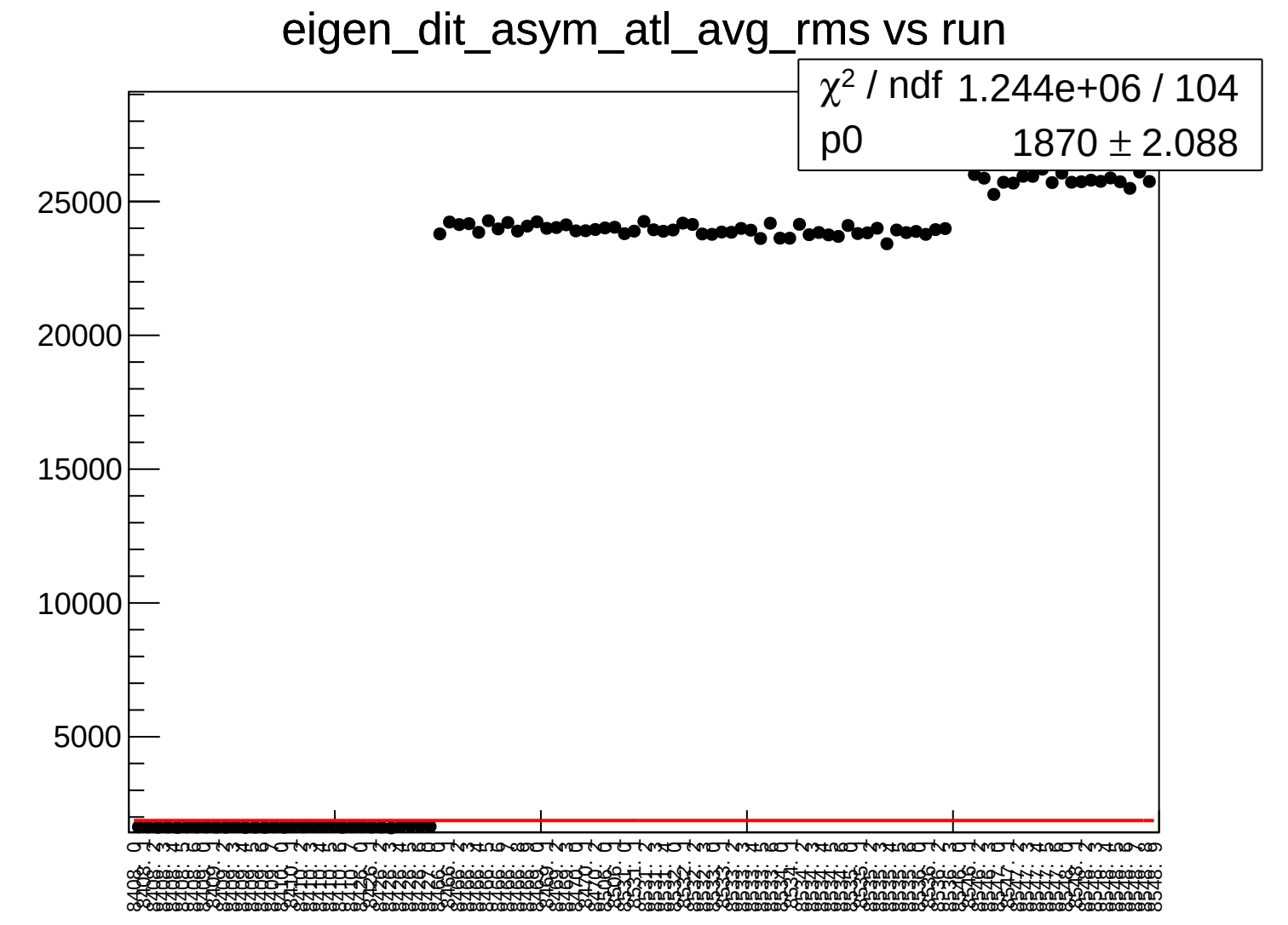

asym_atl_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 97.33 / 104
p0 198.5 ± 262.2
150
100
50
0
−50
−100
−150
−200
pull
Entries 105
Mean 50.38
Std Dev 32.62
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

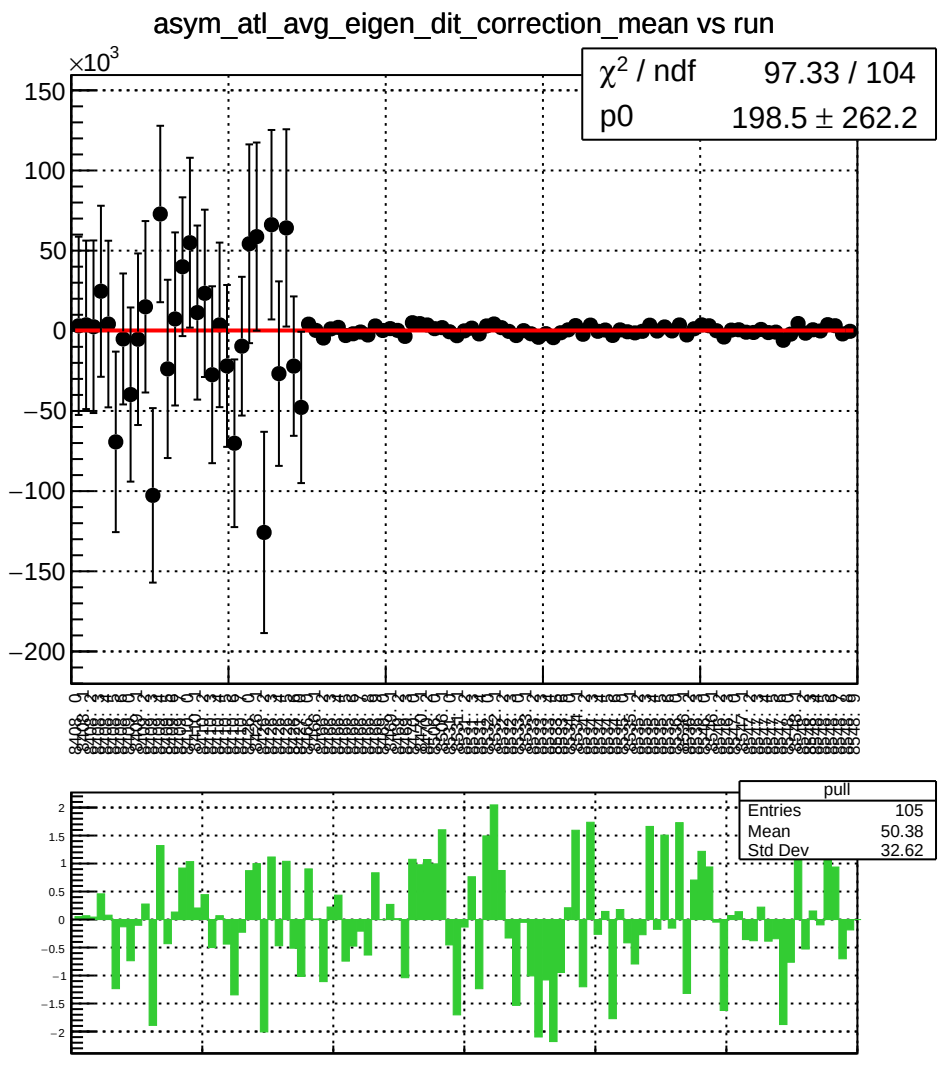

pull1D
Entries 105
Mean −0.03107
Std Dev 0.9623
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

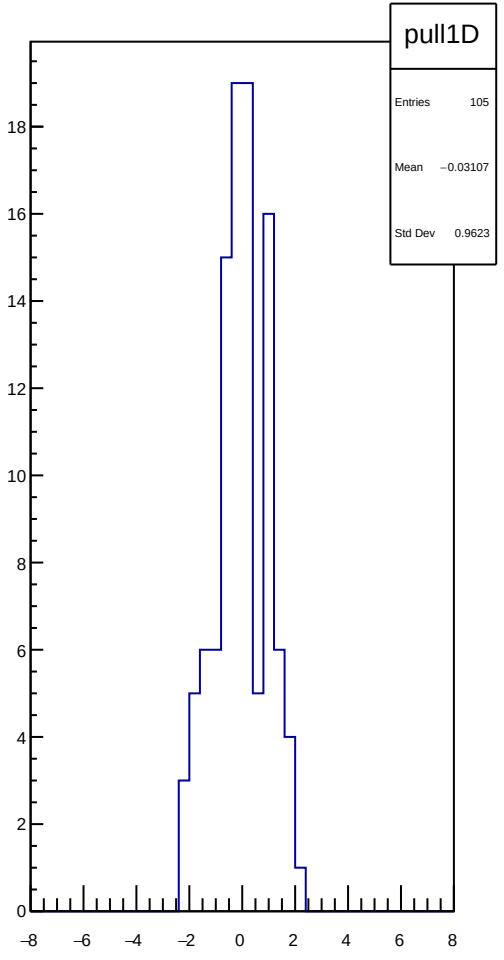

asym_atl_avg_dit_correction_rms vs run
χ² / ndf 7.176e+05 / 104
p0 213.7 ± 0.1854
6000
5000
4000
3000
2000
1000

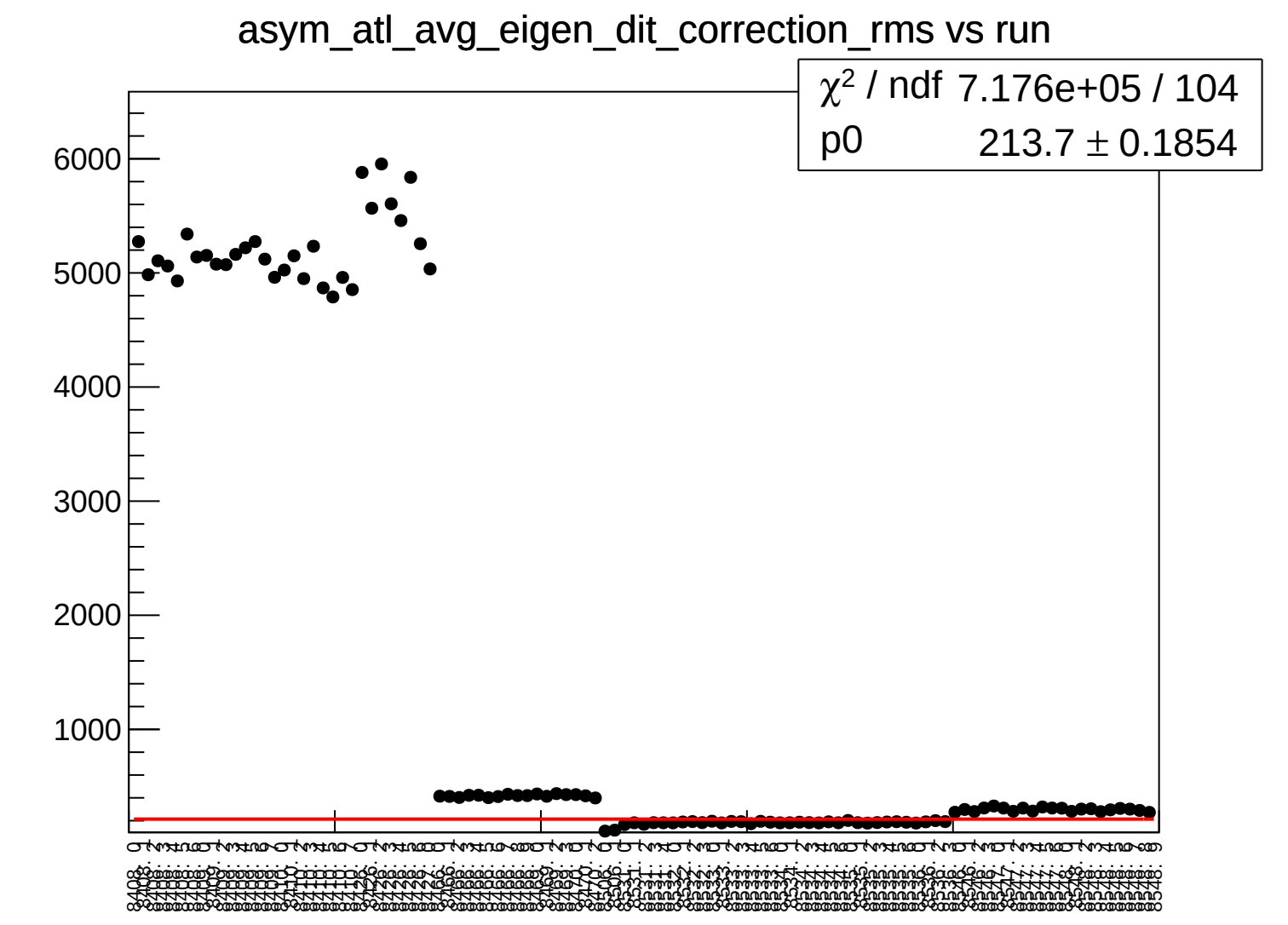

eigen_dit_asym_atl_avg_mean vs run
×10^3
χ^2 / ndf 91.59 / 104
p0 4383 ± 2953
1000
500
0
−500
−1000
pull
Entries 105
Mean −1.333
Std Dev 0
2
1
0
−1
−2

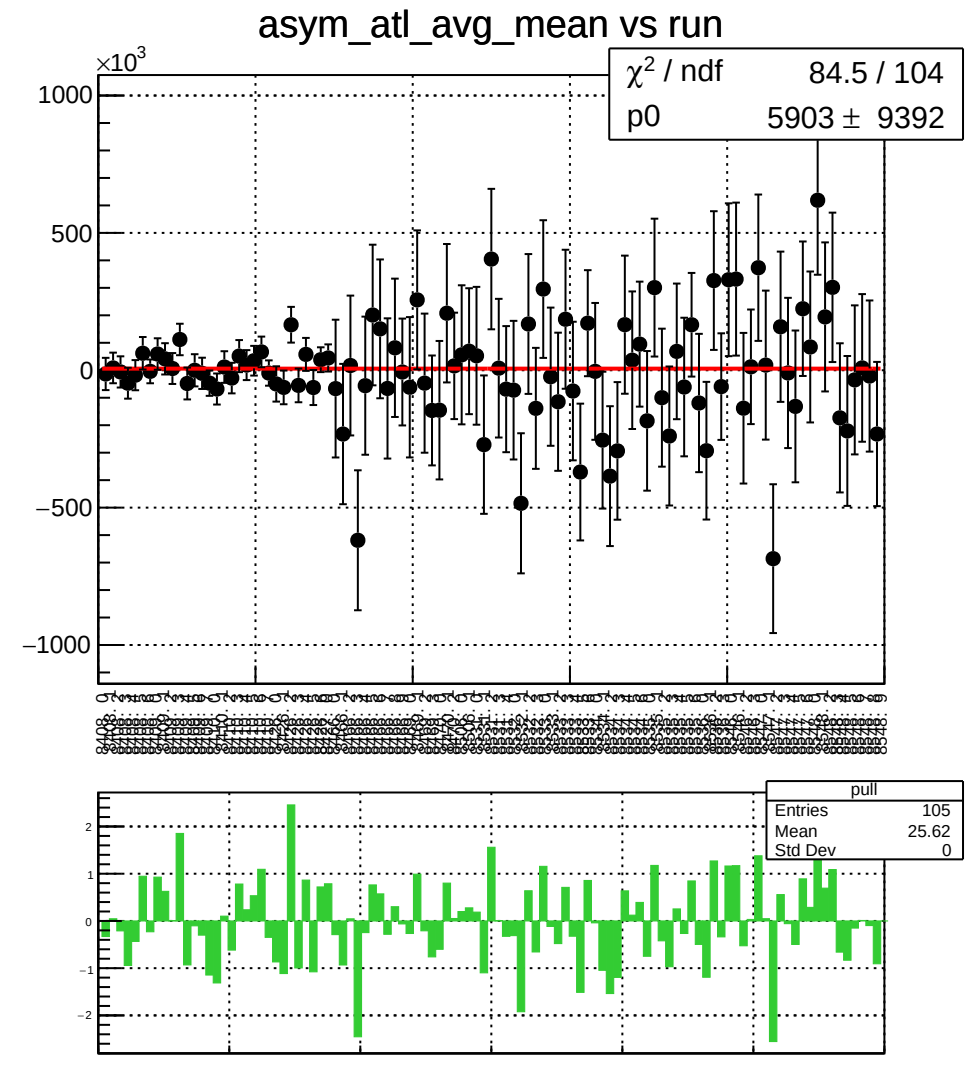

pull1D
Entries 105
Mean −0.02445
Std Dev 0.9336
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

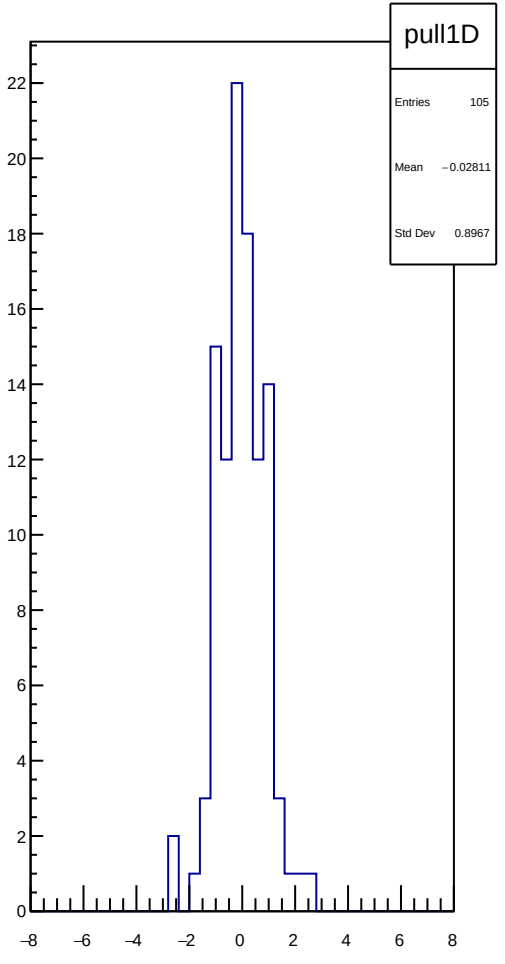

eigen_dit_asym_atl_avg_rms vs run
χ² / ndf 1.244e+06 / 104
p0 1870 ± 2.088
25000
20000
15000
10000
5000

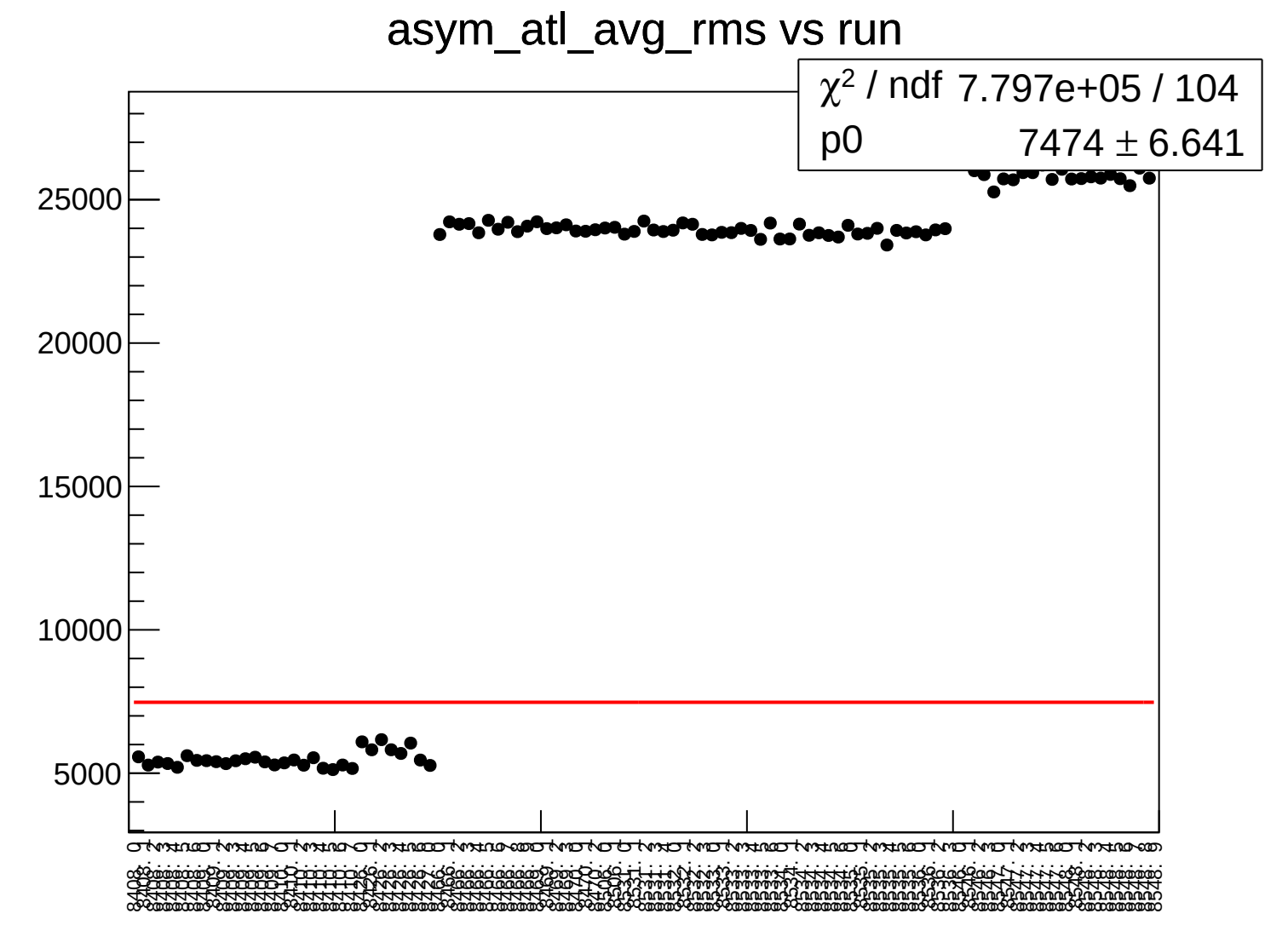

asym_atl_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 97.33 / 104
p0 198.5 ± 262.2
150
100
50
0
−50
−100
−150
−200
pull
Entries 105
Mean 50.38
Std Dev 32.62
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

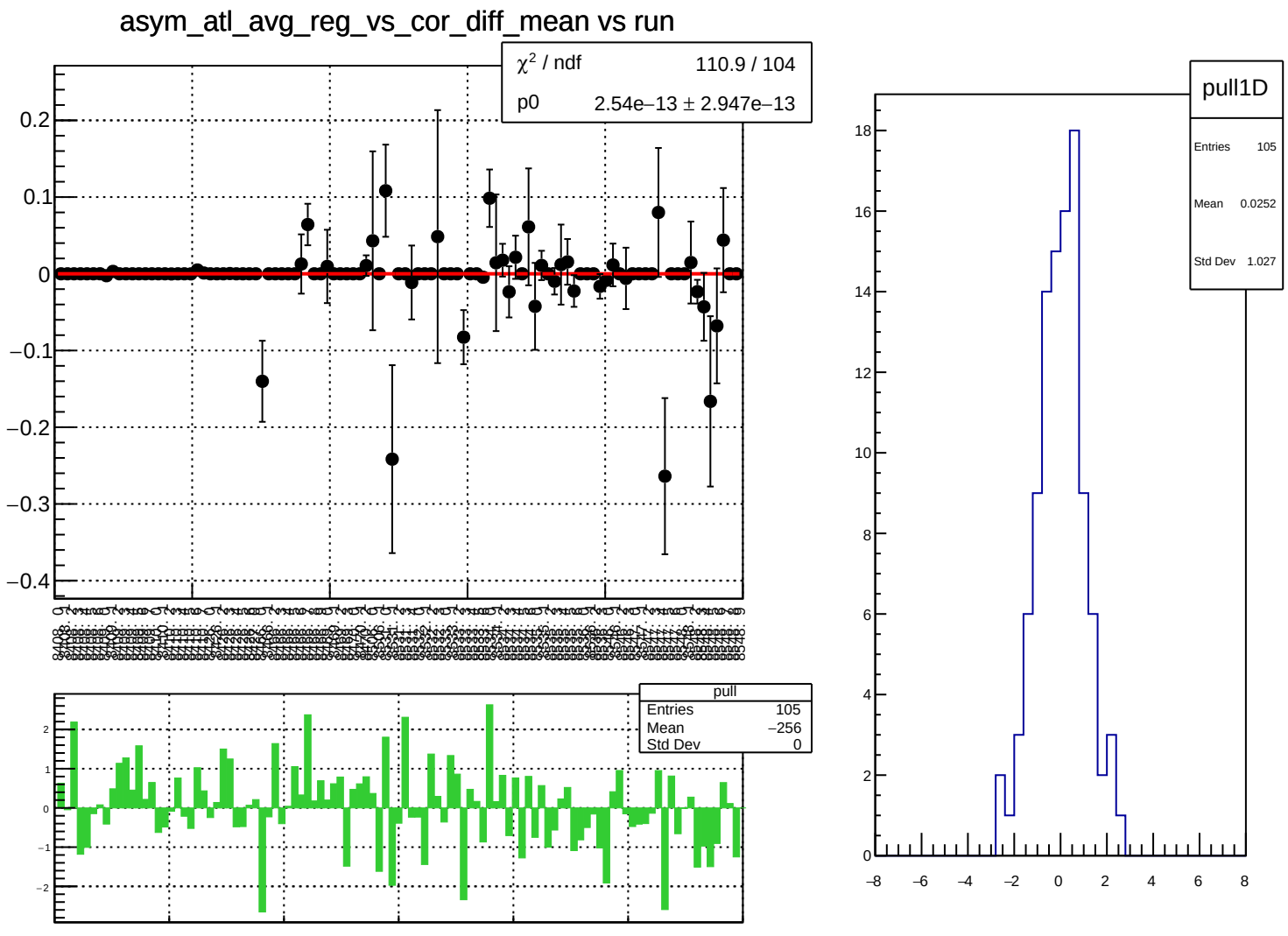

pull1D
Entries 105
Mean −0.03107
Std Dev 0.9623
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

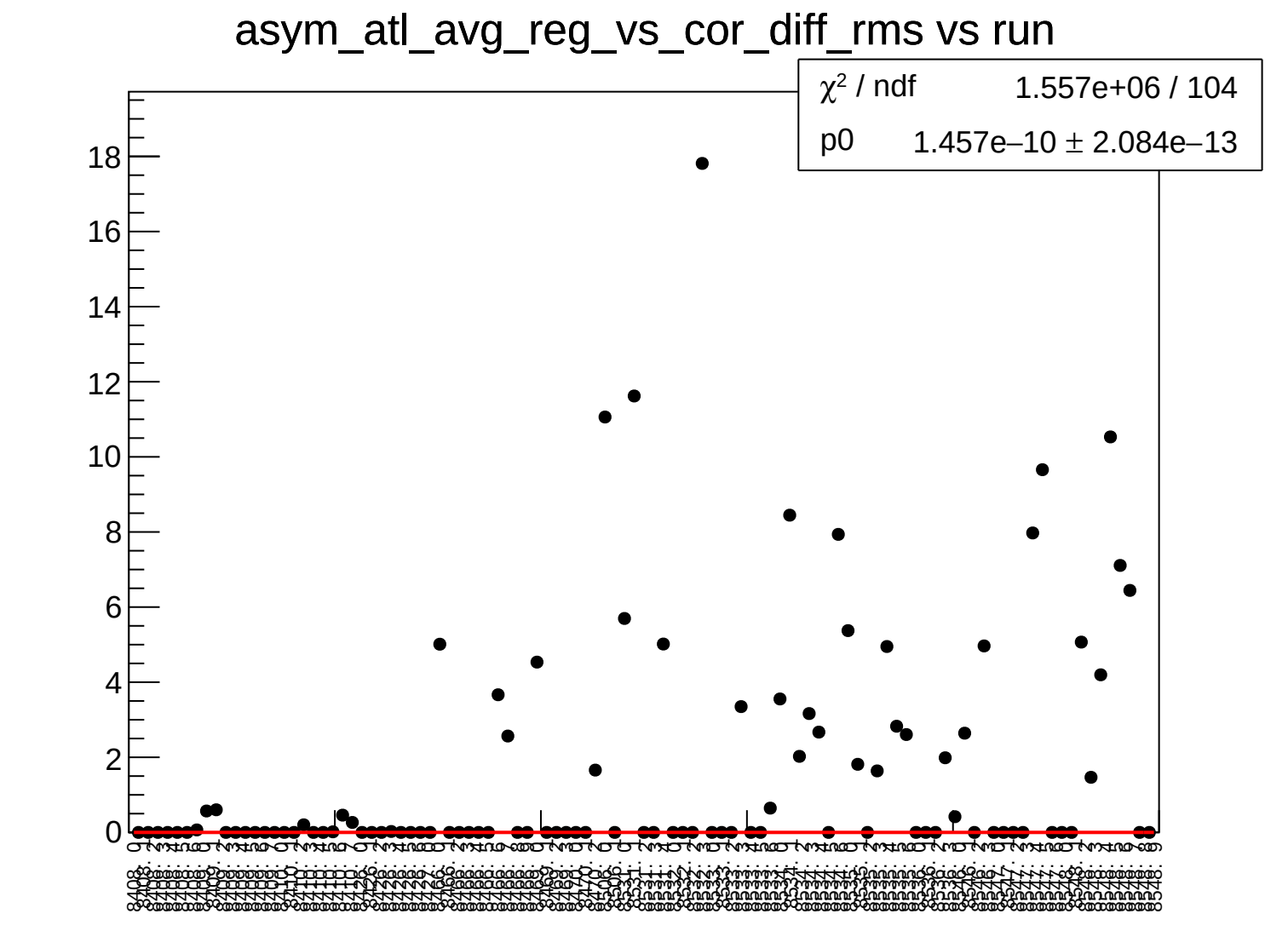

asym_atl_avg_eigen_dit_correction_rms vs run
χ² / ndf 7.176e+05 / 104
p0 213.7 ± 0.1854
6000
5000
4000
3000
2000
1000

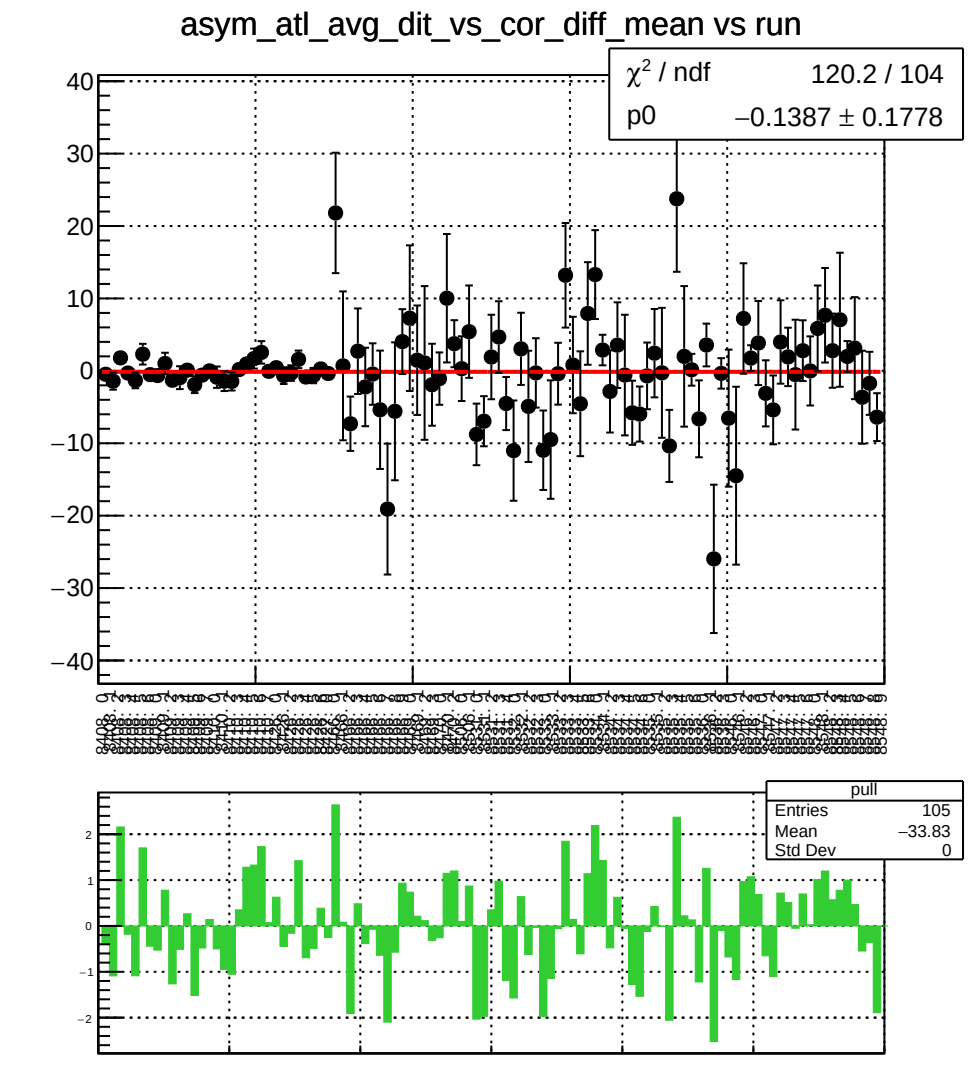

asym_atl_avg_mean vs run
×10^3
χ^2 / ndf 84.5 / 104
p0 5903 ± 9392
1000
500
0
−500
−1000
pull
Entries 105
Mean 25.62
Std Dev 0
2
1
0
−1
−2

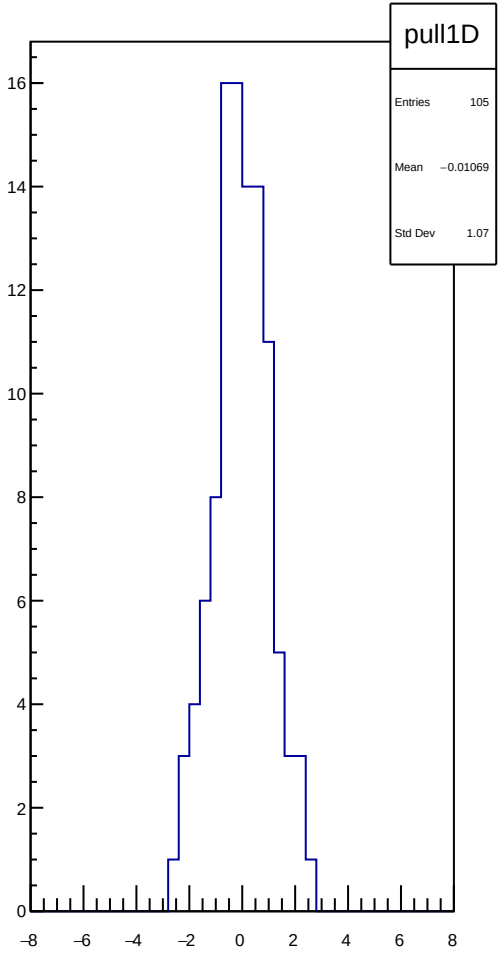

pull1D
Entries 105
Mean −0.02811
Std Dev 0.8967
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

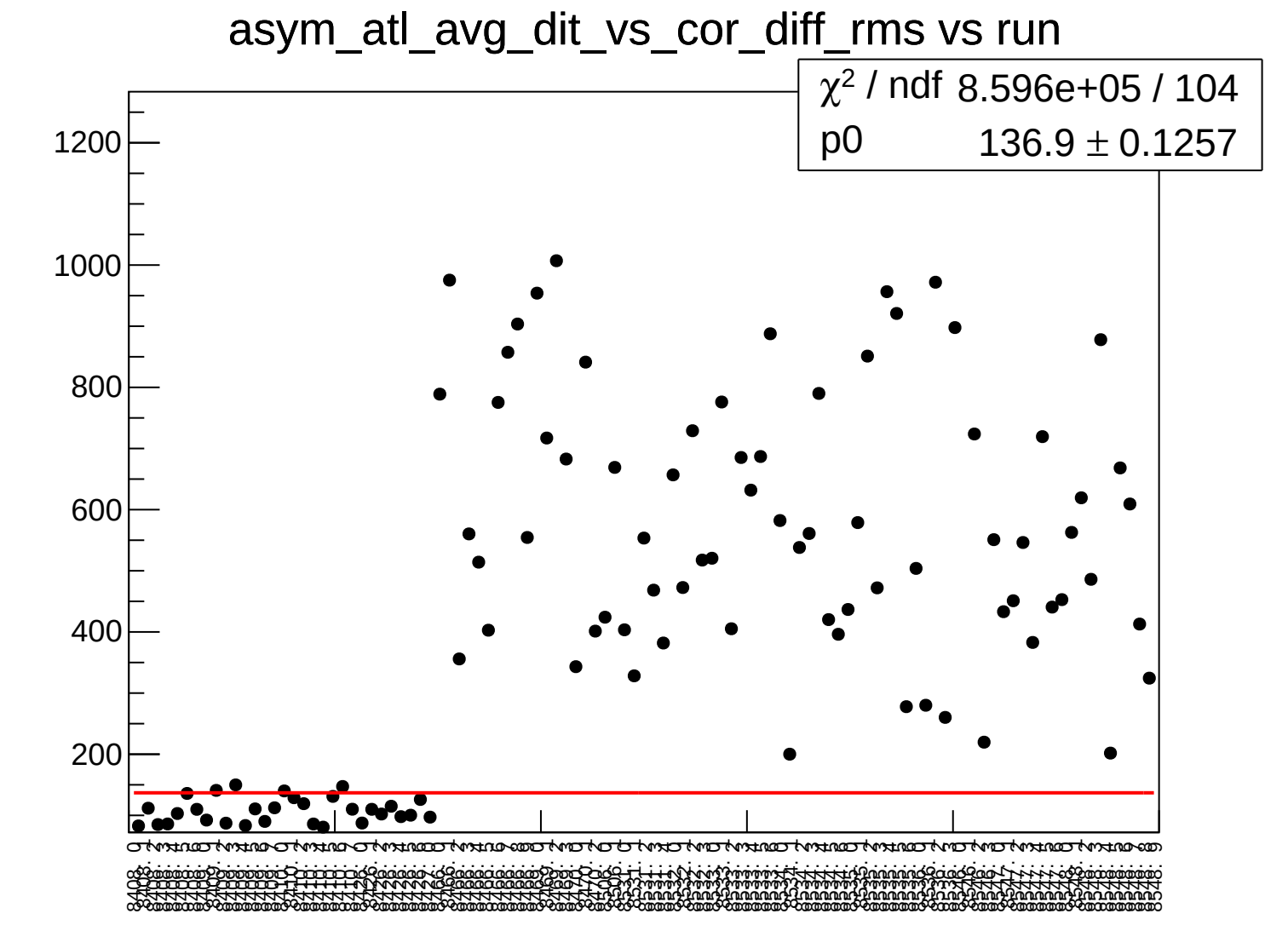

asym_atl_avg_rms vs run
χ^2 / ndf 7.797e+05 / 104
p0 7474 ± 6.641
25000
20000
15000
10000
5000


asym_atl_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 110.9 / 104
p0 2.54e−13 ± 2.947e−13
pull
Entries 105
Mean −256
Std Dev 0
pull1D
Entries 105
Mean 0.0252
Std Dev 1.027

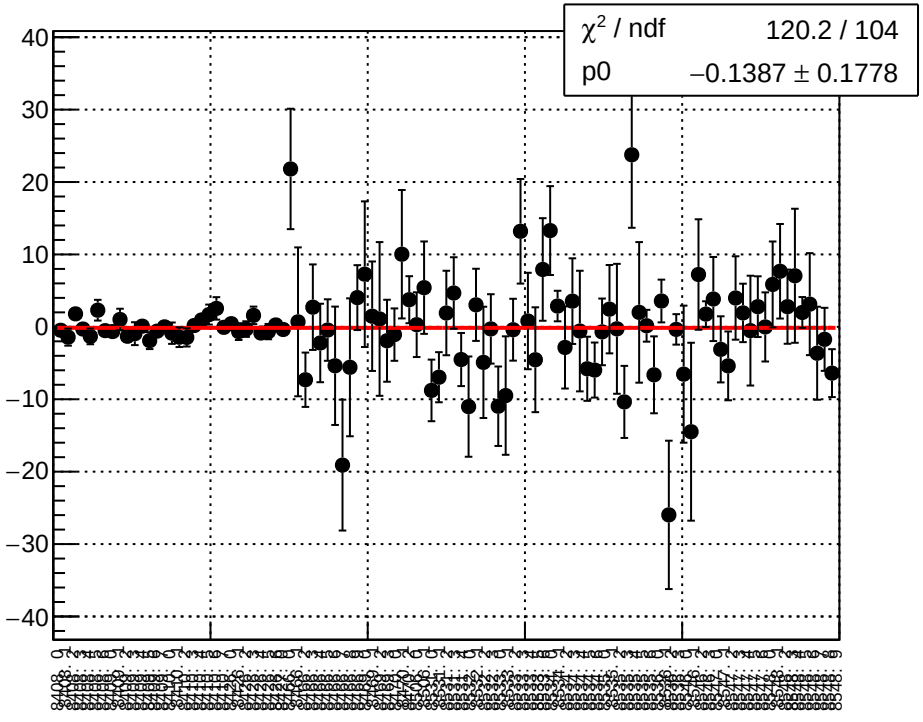

asym_atl_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.557e+06 / 104
p0 1.457e−10 ± 2.084e−13
0
2
4
6
8
10
12
14
16
18

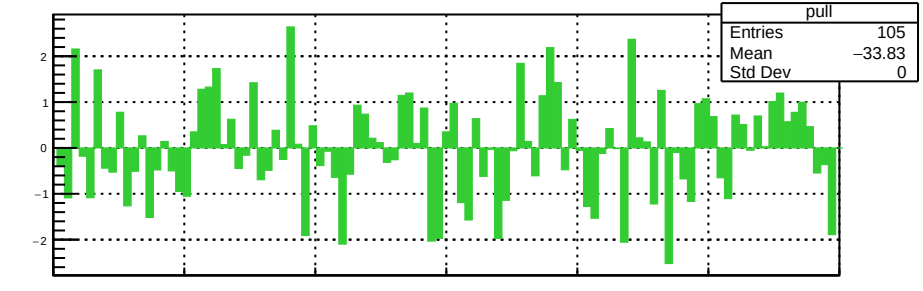

asym_atl_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 120.2 / 104
p0 −0.1387 ± 0.1778
pull
Entries 105
Mean −33.83
Std Dev 0

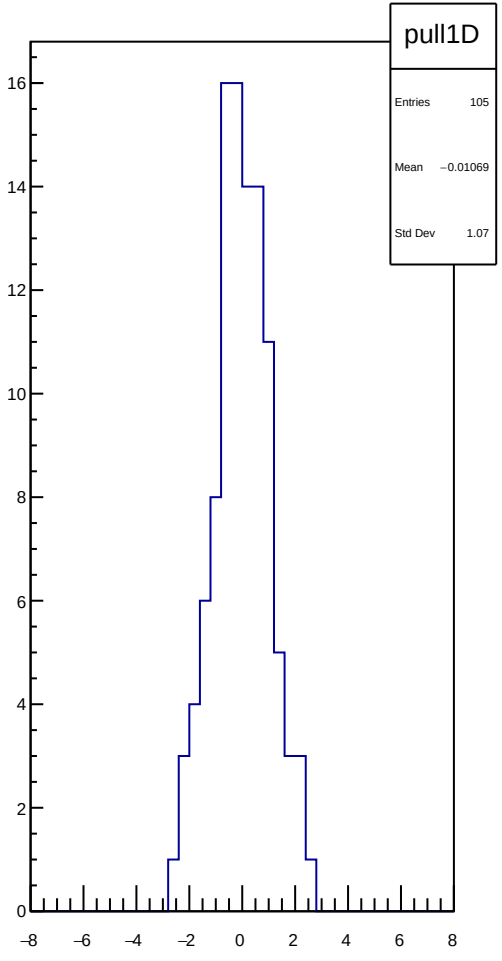

pull1D
Entries 105
Mean −0.01069
Std Dev 1.07

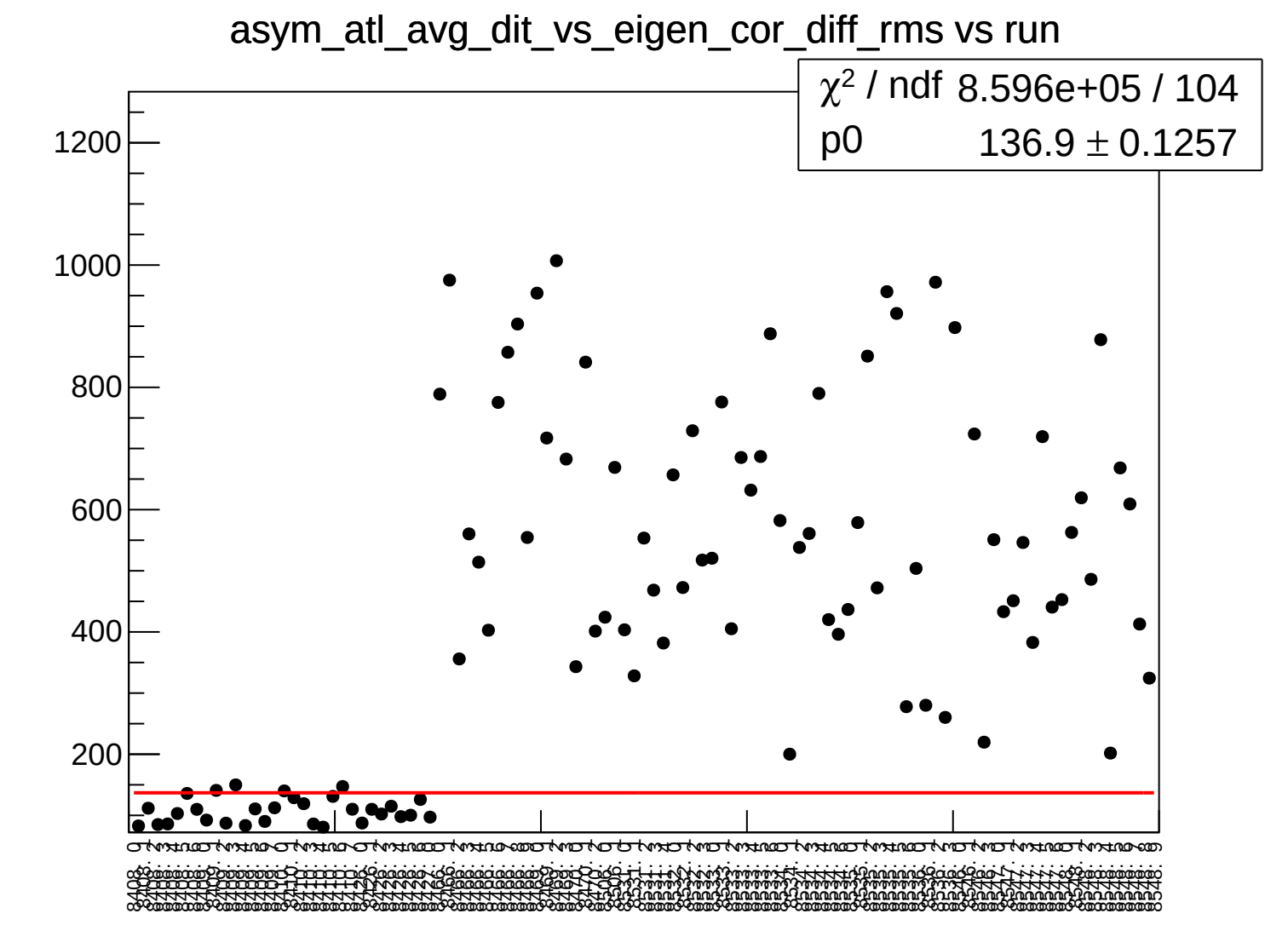

asym_atl_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.596e+05 / 104
p0 136.9 ± 0.1257
1200
1000
800
600
400
200

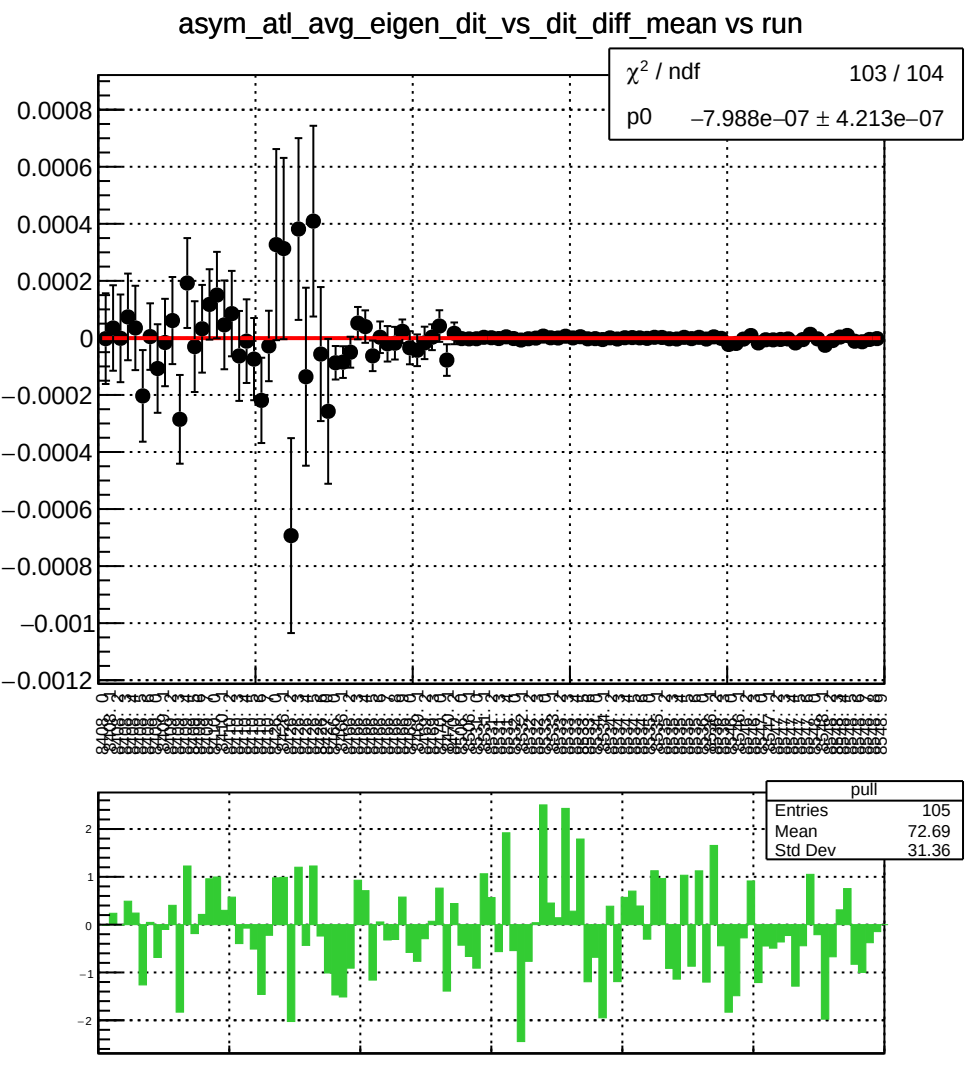
asym_atl_avg_dit_vs_eigen_cor_diff_mean vs run

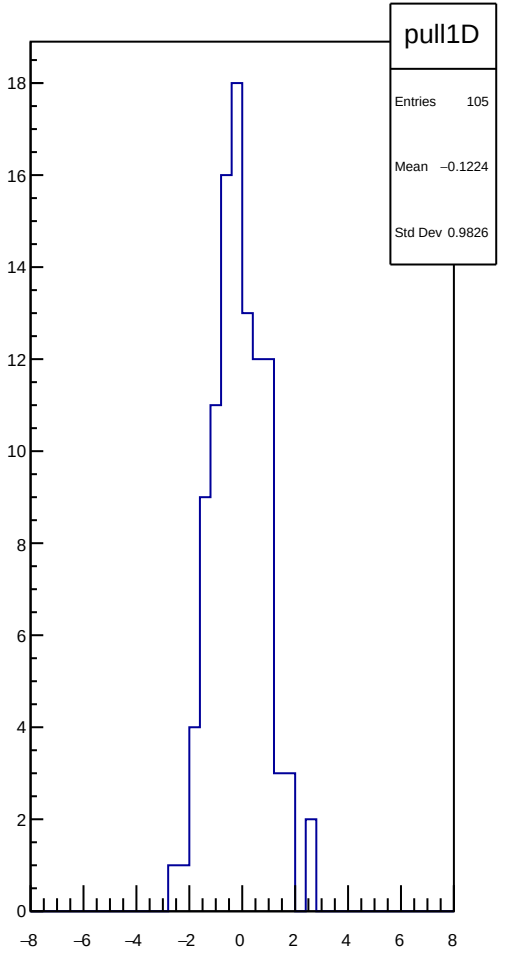


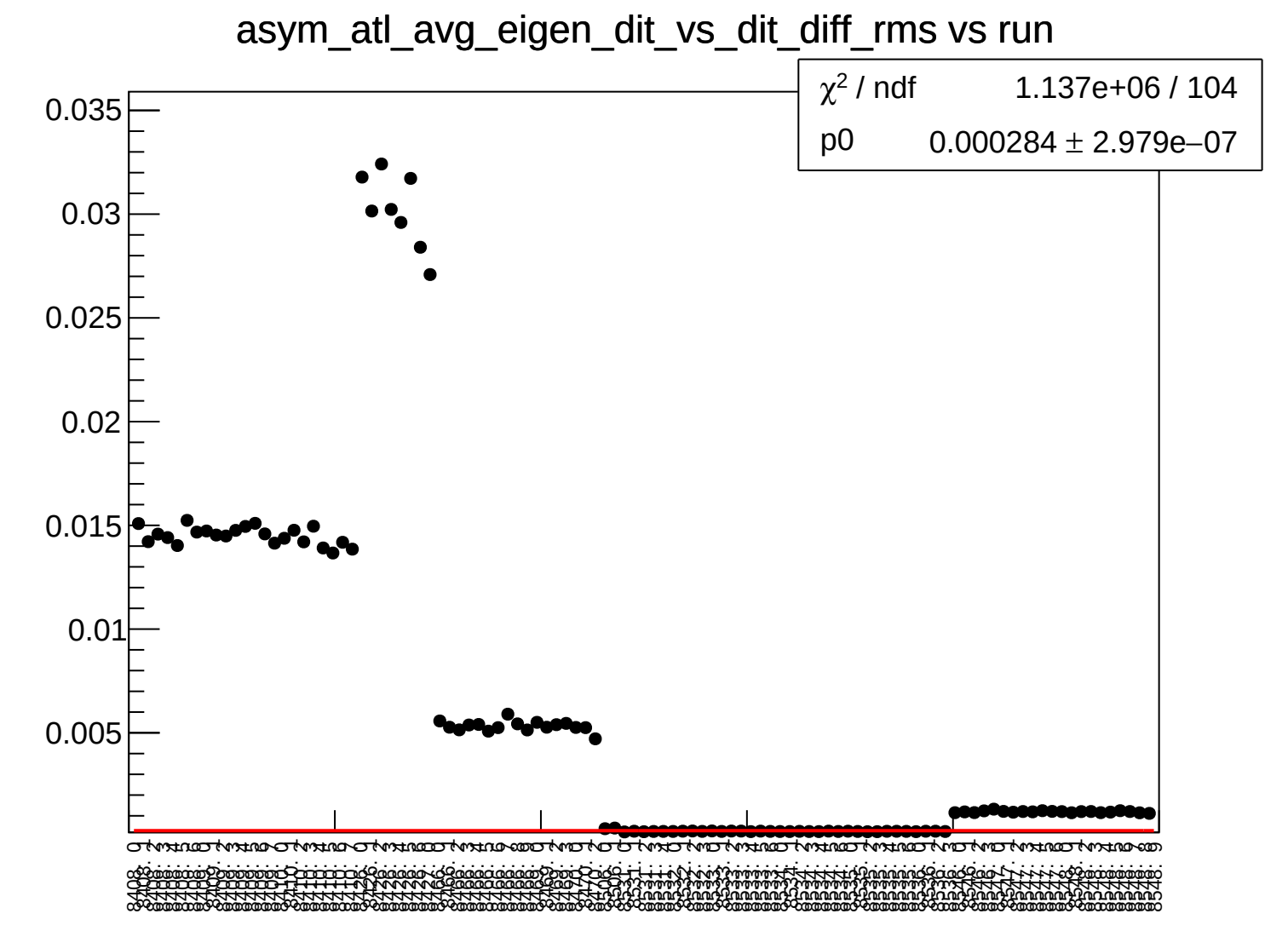


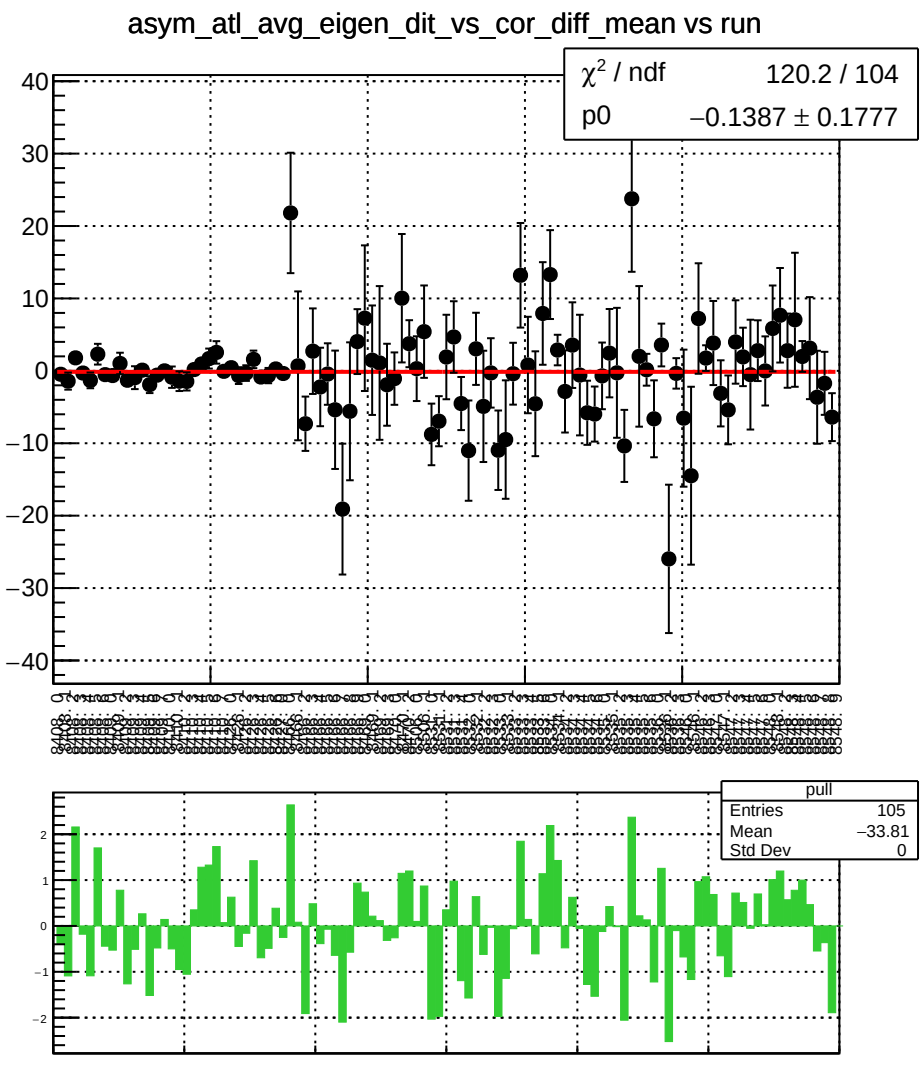


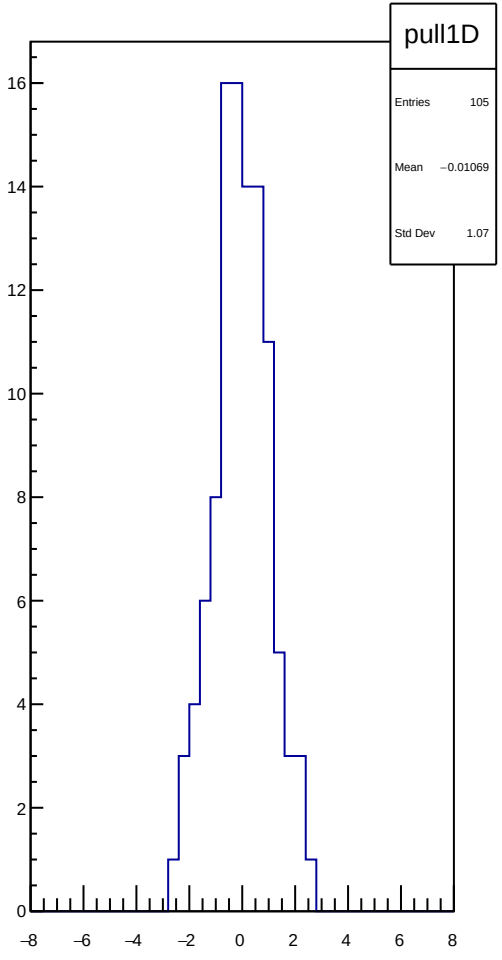

asym_atl_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.596e+05 / 104
p0 136.9 ± 0.1257
1200
1000
800
600
400
200

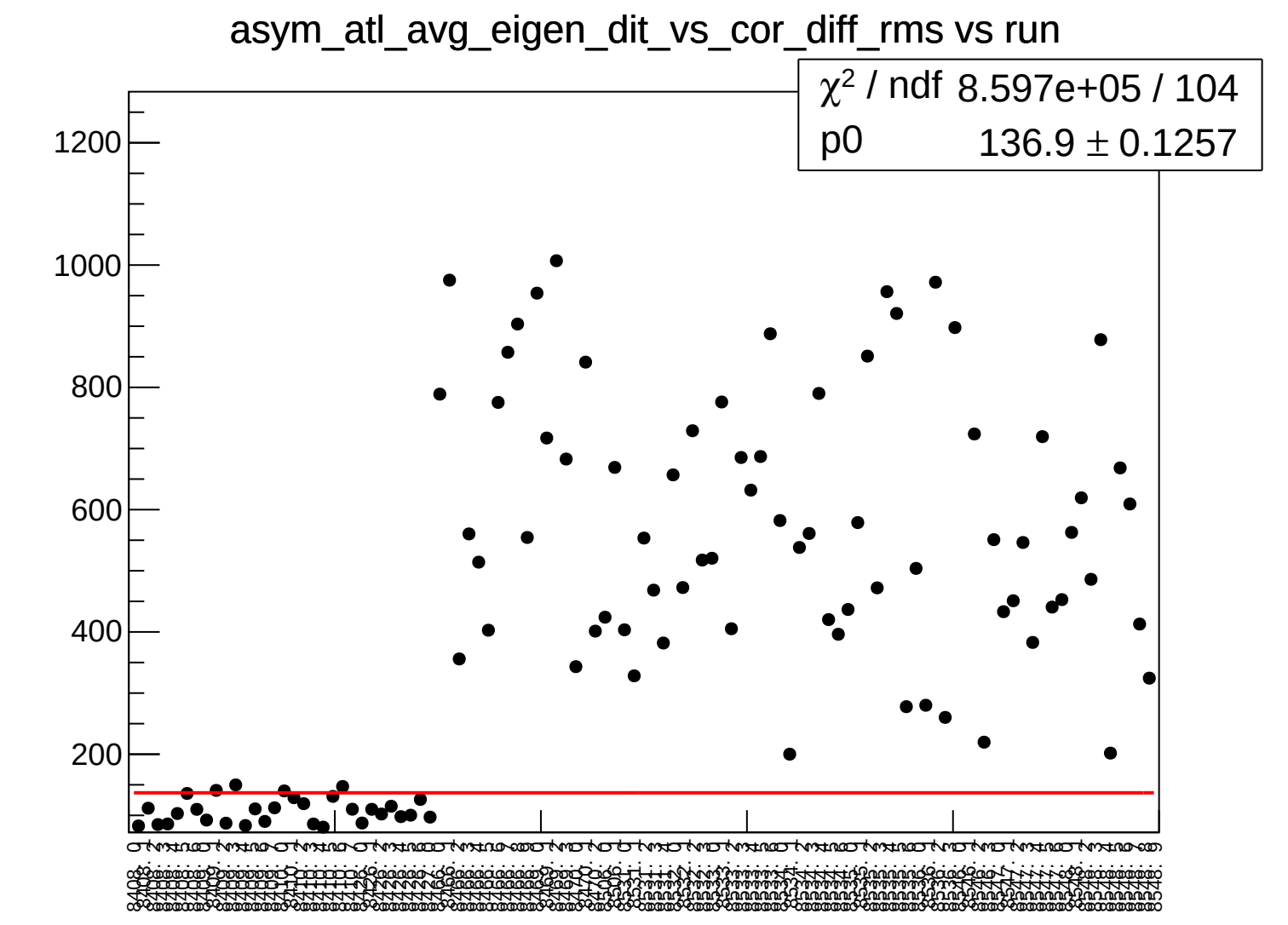

asym_atl_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 103 / 104
p0 −7.988e−07 ± 4.213e−07
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
pull
Entries 105
Mean 72.69
Std Dev 31.36
2
1
0
−1
−2

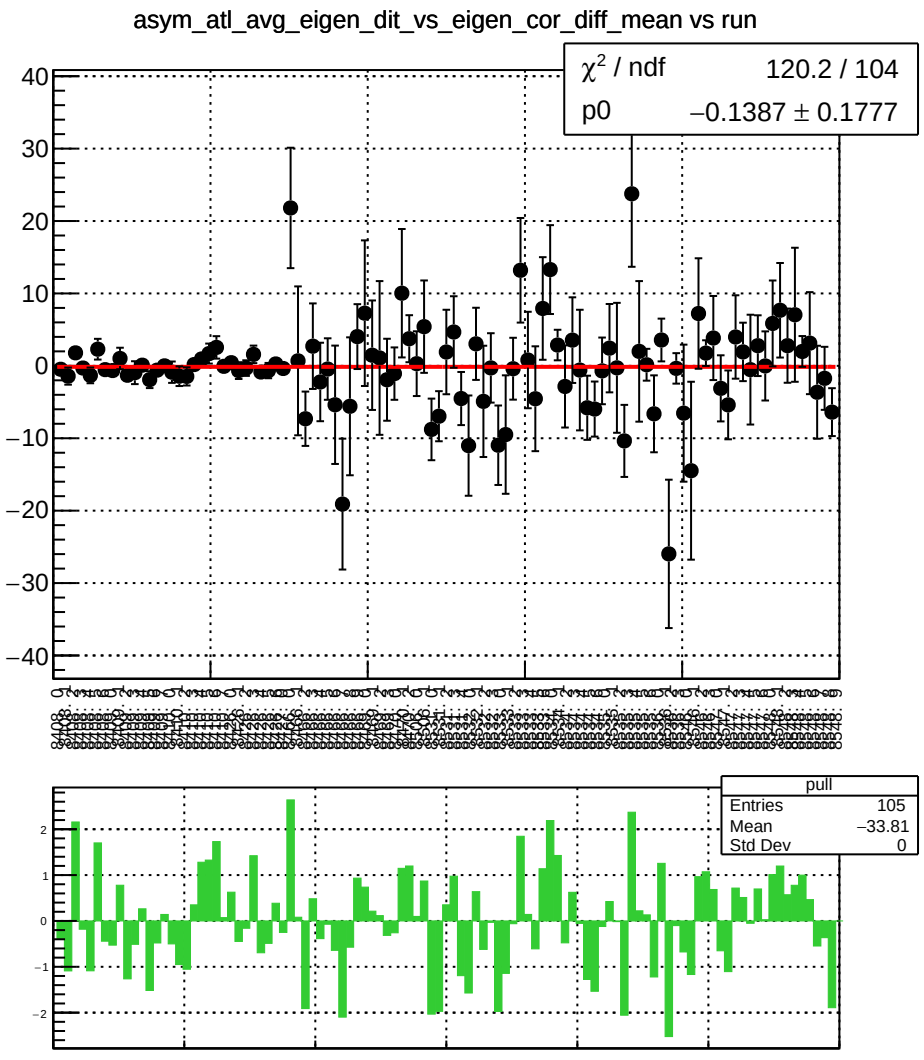

pull1D
Entries 105
Mean −0.1224
Std Dev 0.9826
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

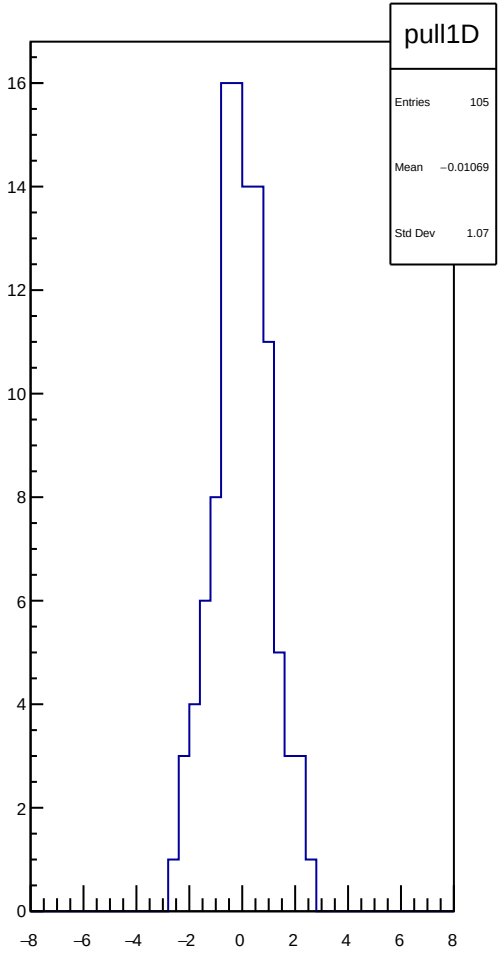

asym_atl_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.137e+06 / 104
p0 0.000284 ± 2.979e−07
0.035
0.03
0.025
0.02
0.015
0.01
0.005

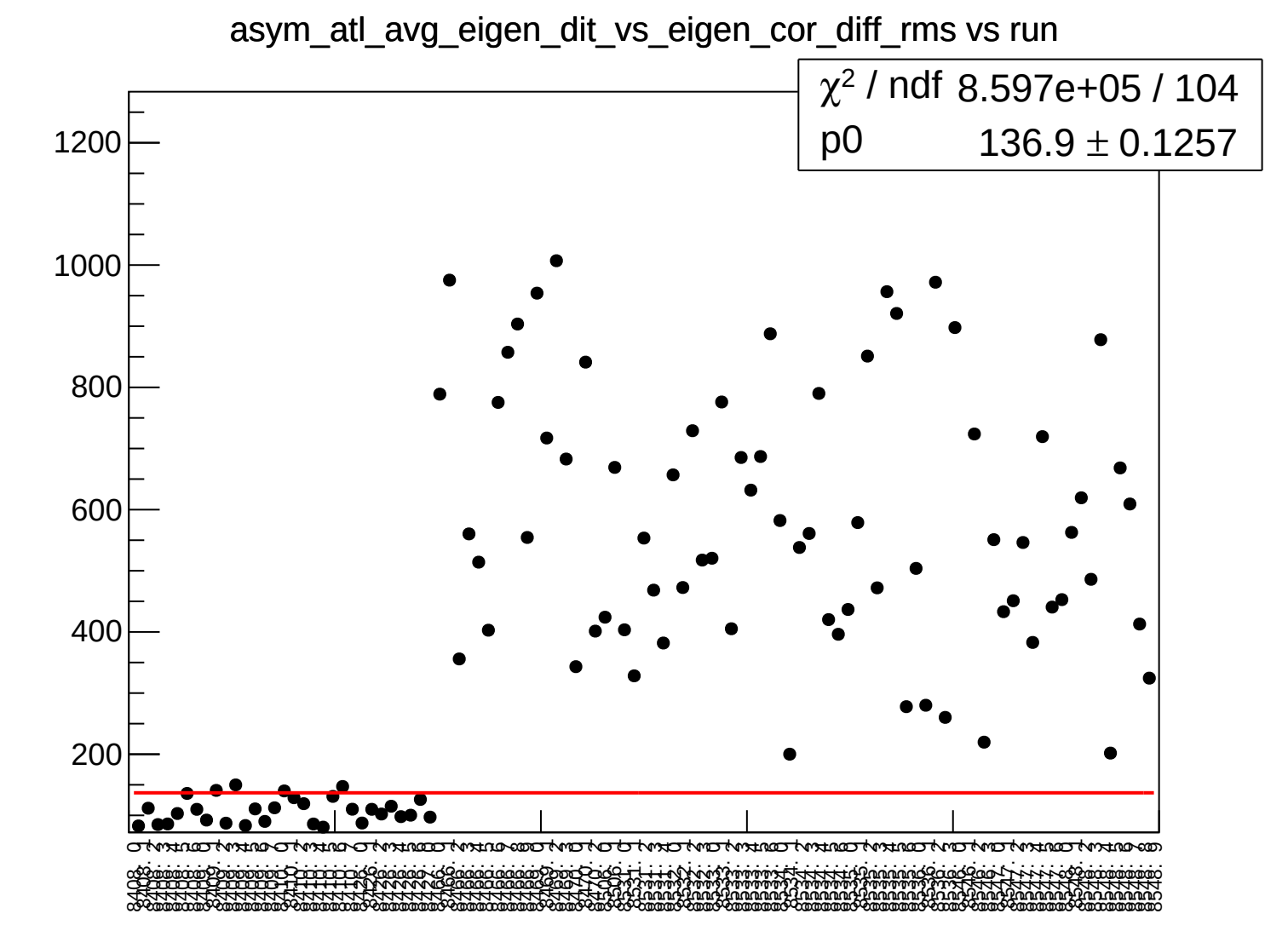

asym_atl_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 120.2 / 104
p0 −0.1387 ± 0.1777
pull
Entries 105
Mean −33.81
Std Dev 0

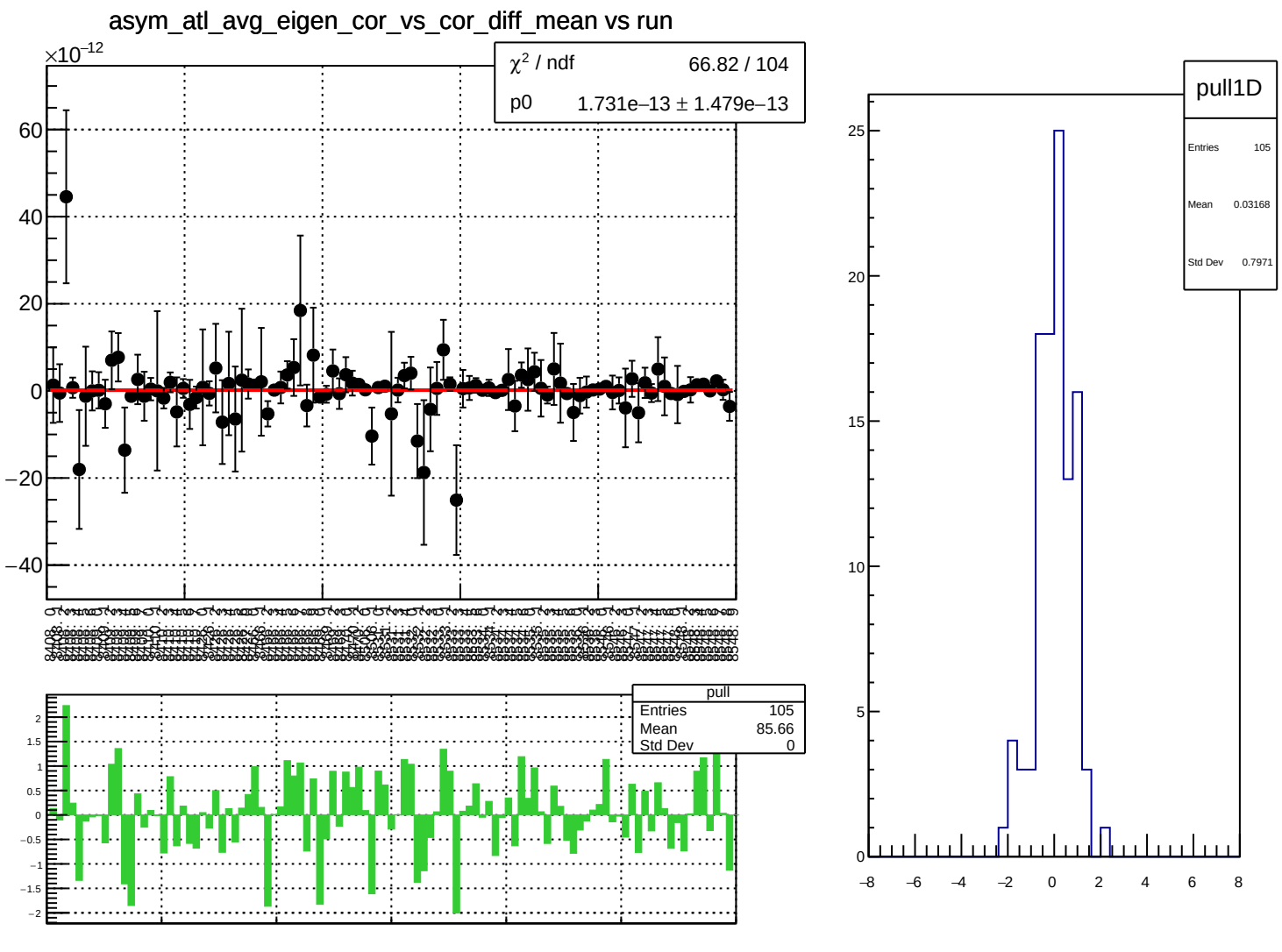

pull1D
Entries 105
Mean −0.01069
Std Dev 1.07

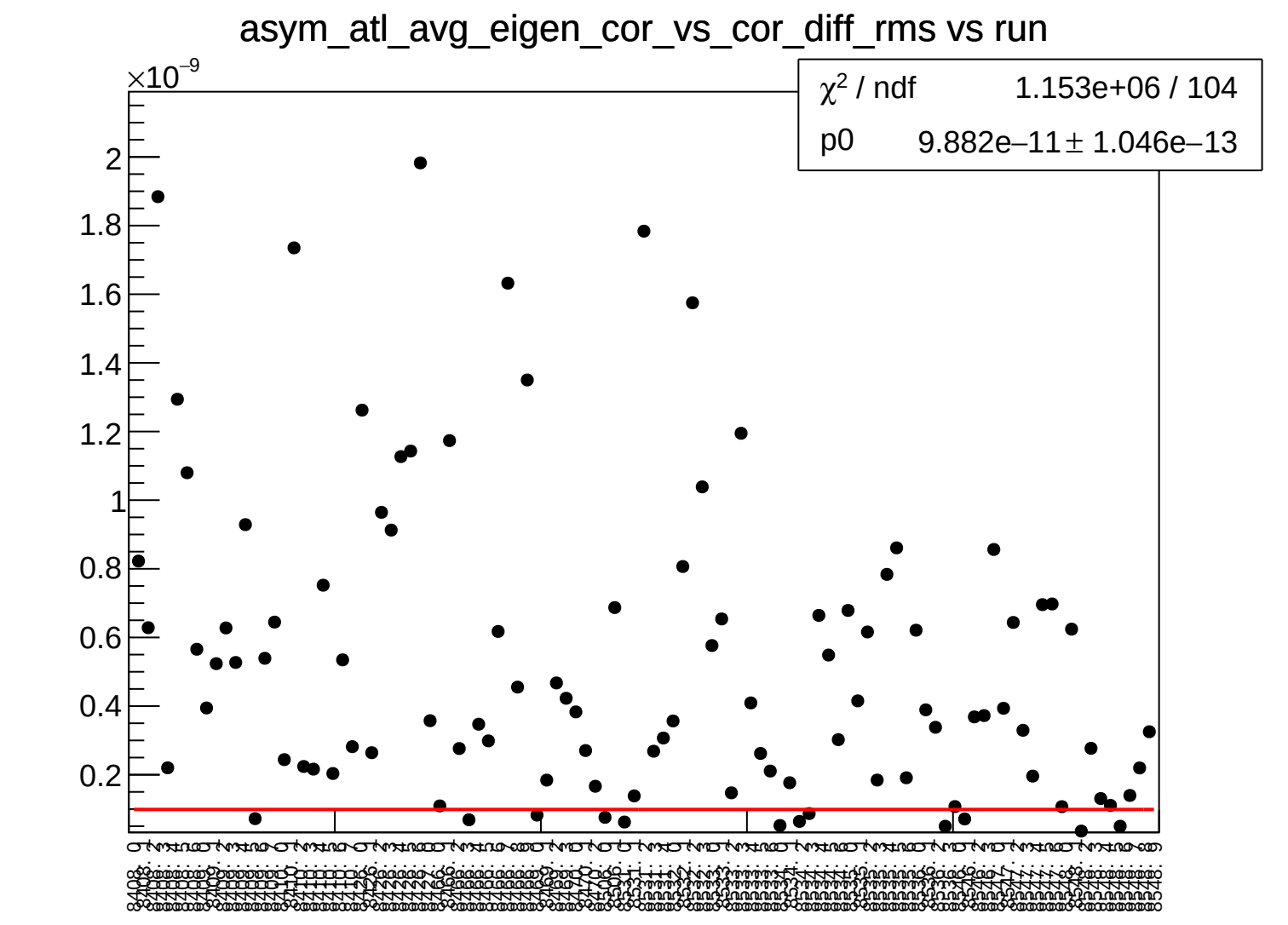

asym_atl_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.597e+05 / 104
p0 136.9 ± 0.1257
1200
1000
800
600
400
200

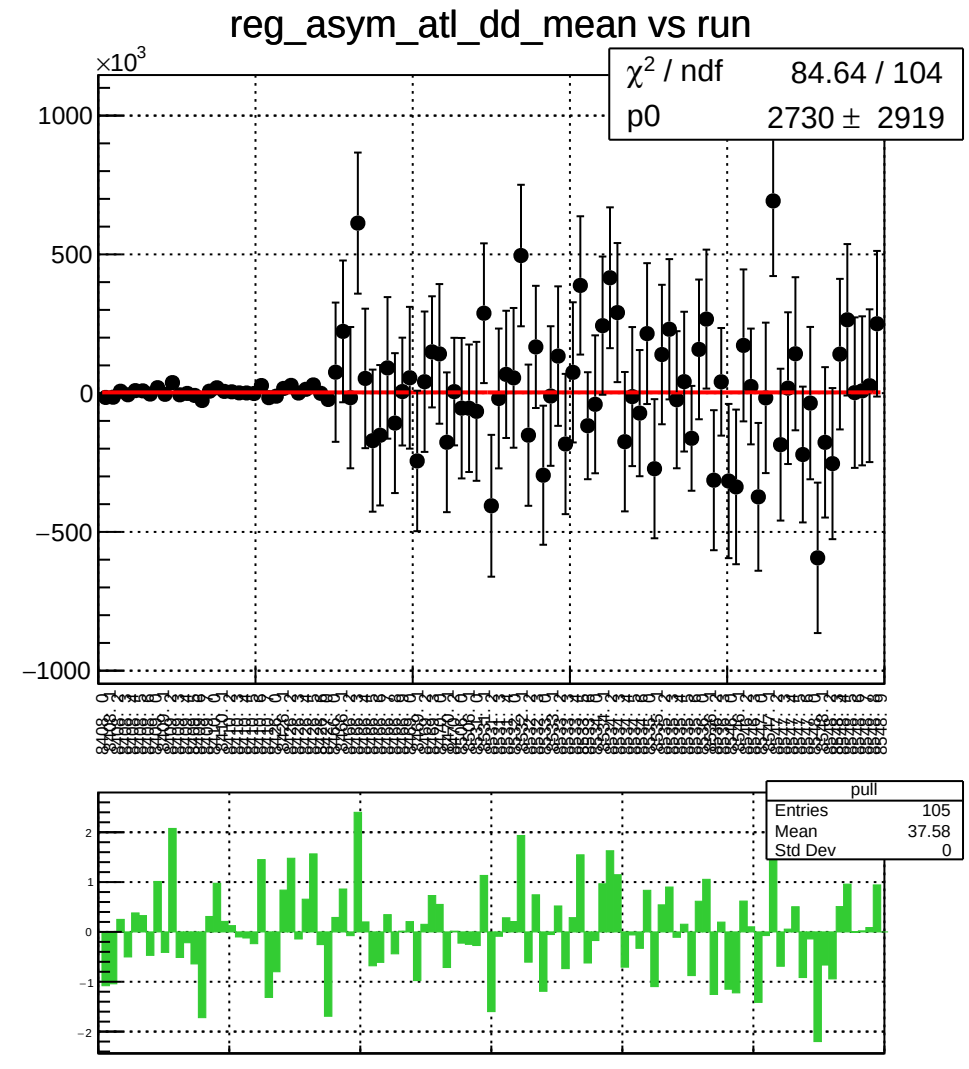

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 120.2 / 104
p0 −0.1387 ± 0.1777
pull
Entries 105
Mean −33.81
Std Dev 0

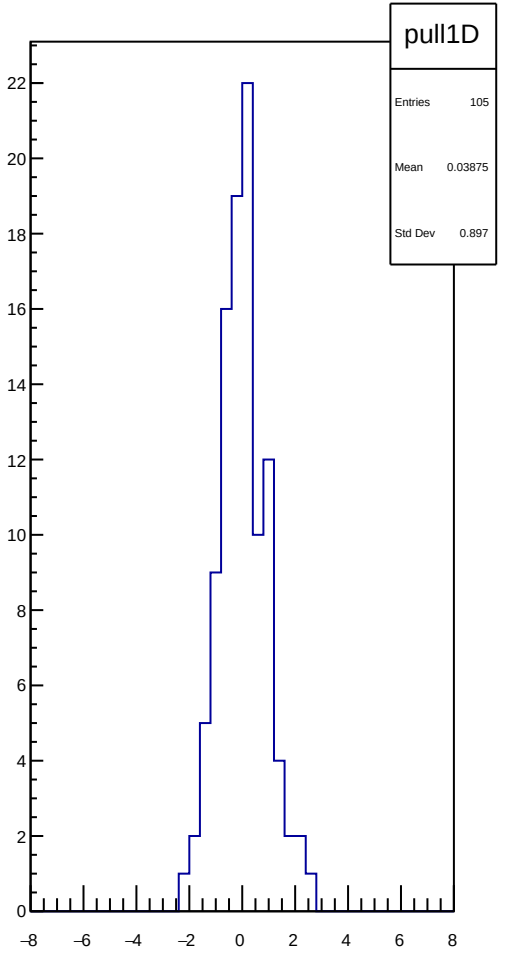

pull1D
Entries 105
Mean −0.01069
Std Dev 1.07

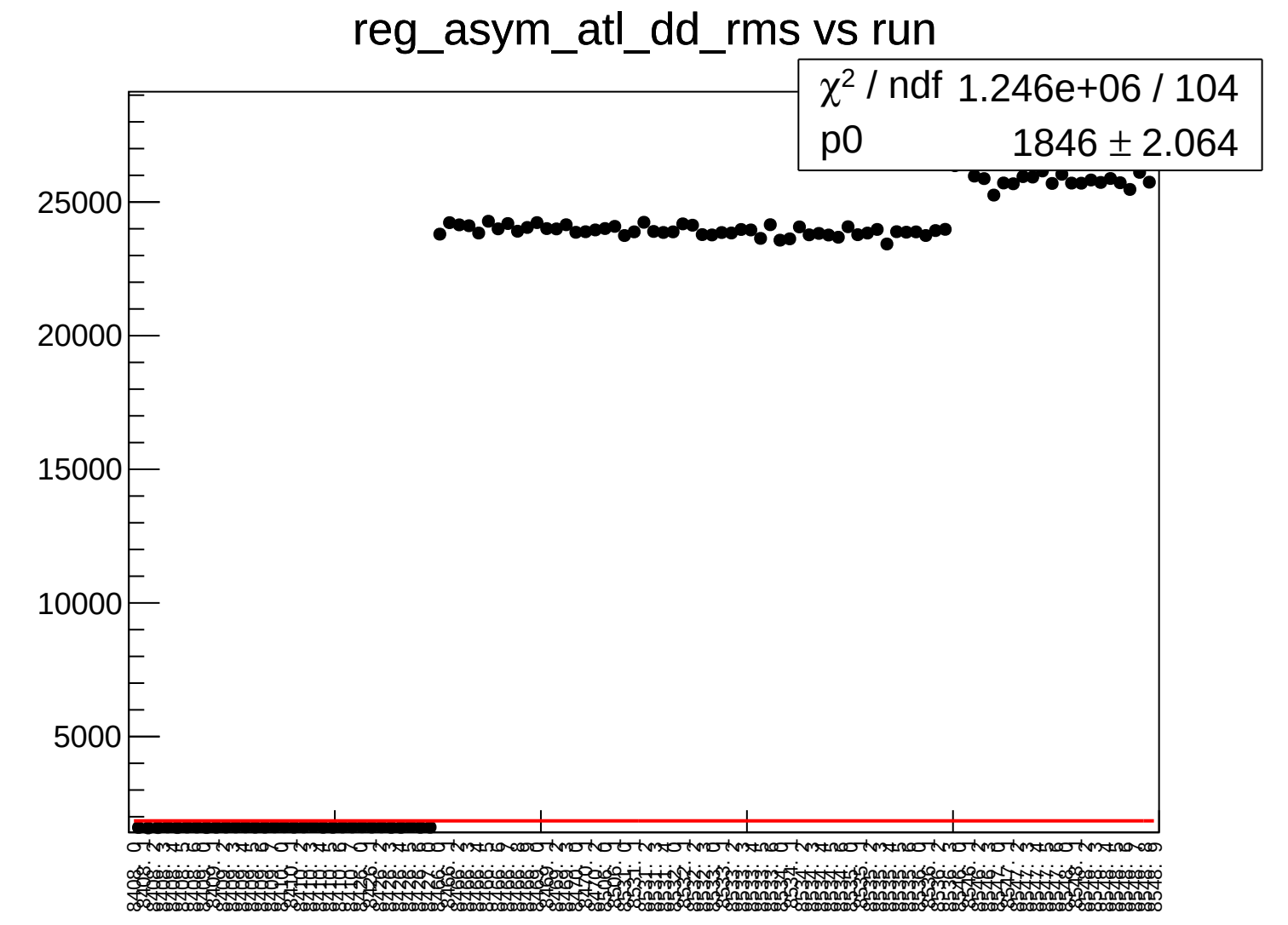

asym_atl_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.597e+05 / 104
p0 136.9 ± 0.1257
1200
1000
800
600
400
200

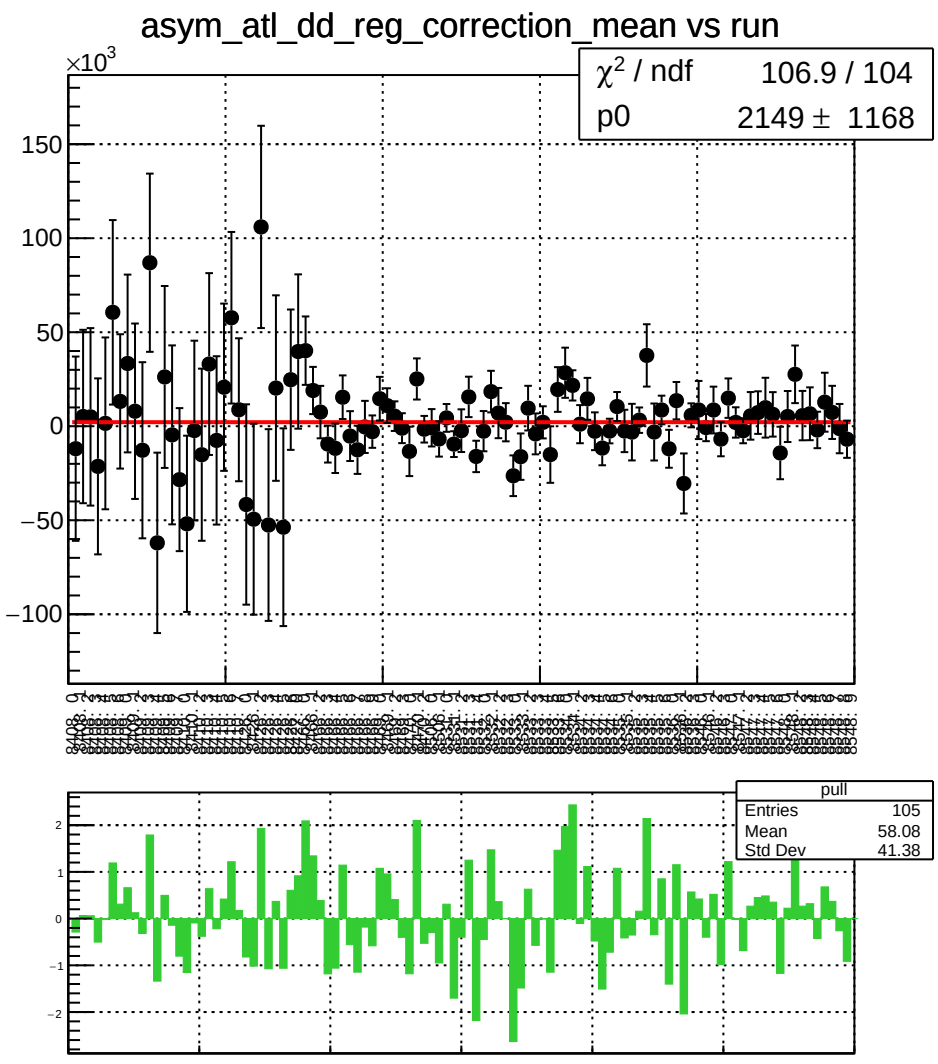

asym_atl_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 66.82 / 104
p0 1.731e−13 ± 1.479e−13
60
40
20
0
−20
−40
pull
Entries 105
Mean 85.66
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 105
Mean 0.03168
Std Dev 0.7971
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

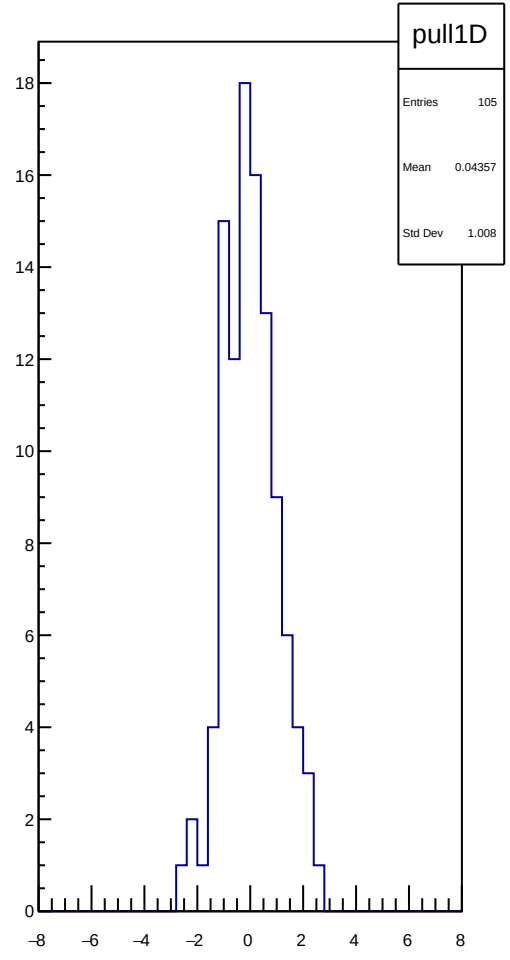

asym_atl_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.153e+06 / 104
p0 9.882e−11 ± 1.046e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

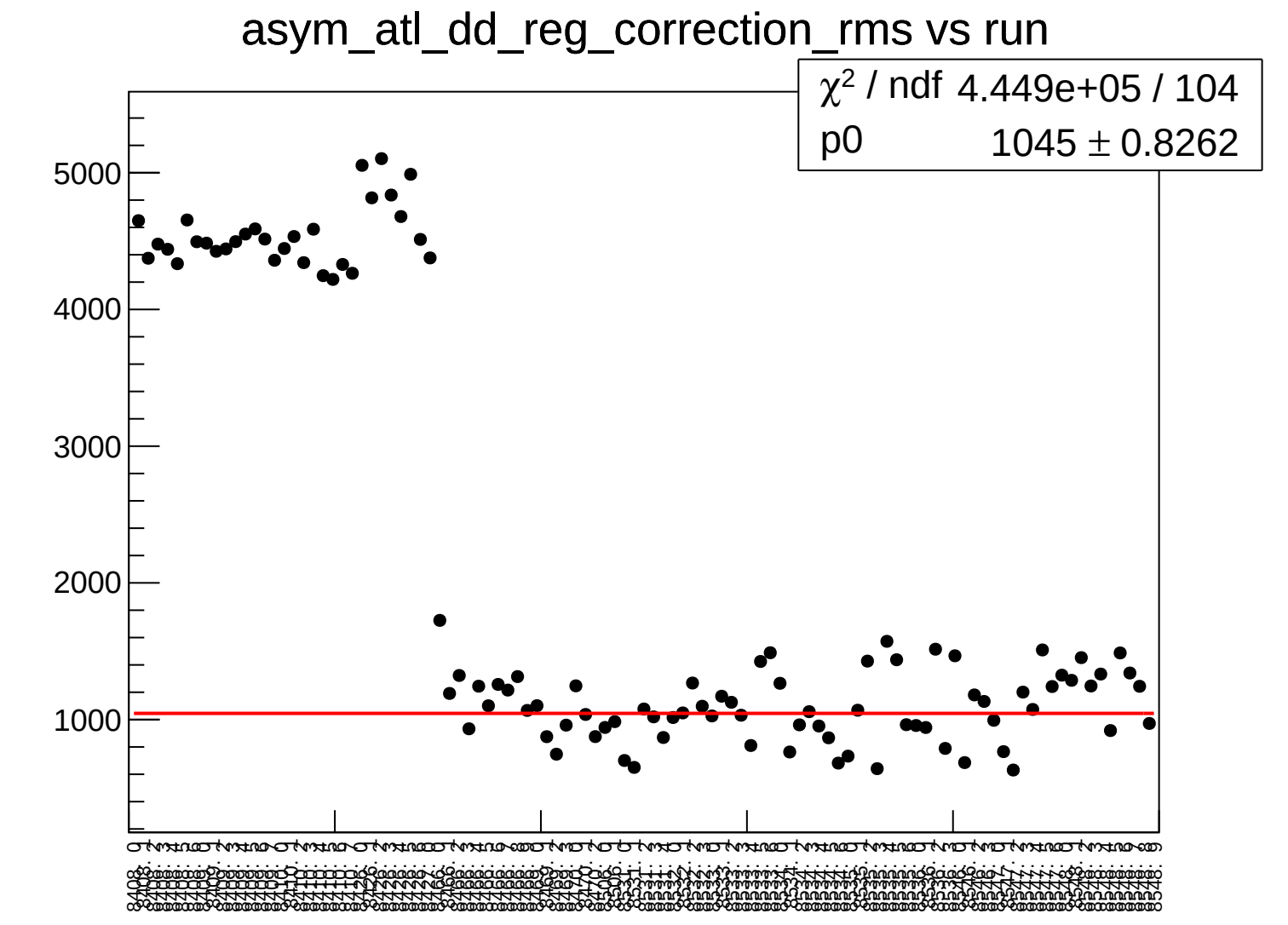

reg_asym_atl_dd_mean vs run
×10^3
χ^2 / ndf 84.64 / 104
p0 2730 ± 2919
1000
500
0
−500
−1000
pull
Entries 105
Mean 37.58
Std Dev 0
2
1
0
−1
−2

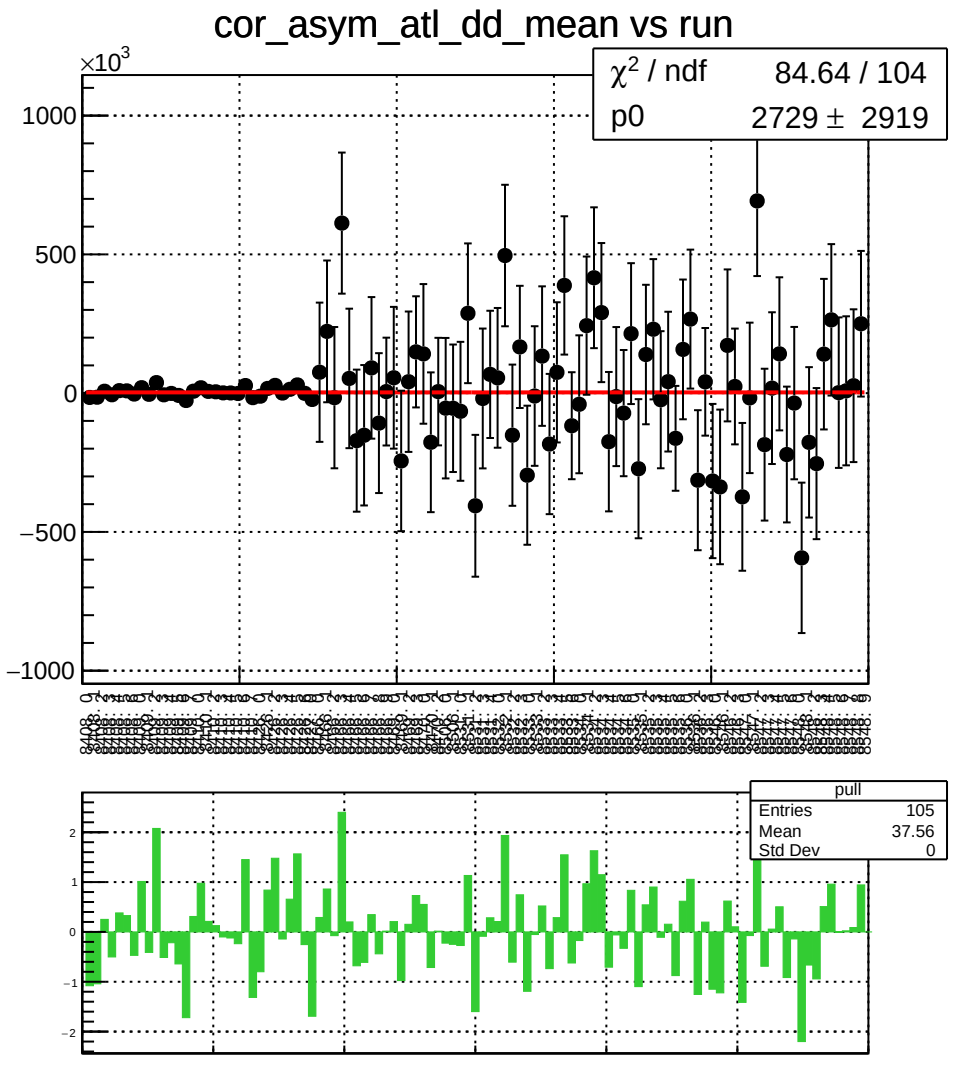

pull1D
Entries 105
Mean 0.03875
Std Dev 0.897
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

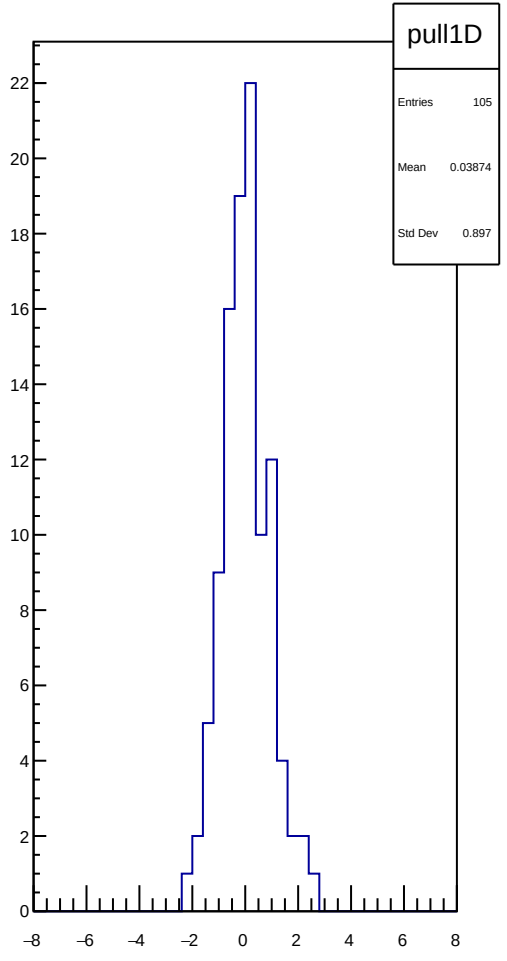

reg_asym_atl_dd_rms vs run
χ² / ndf 1.246e+06 / 104
p0 1846 ± 2.064
25000
20000
15000
10000
5000

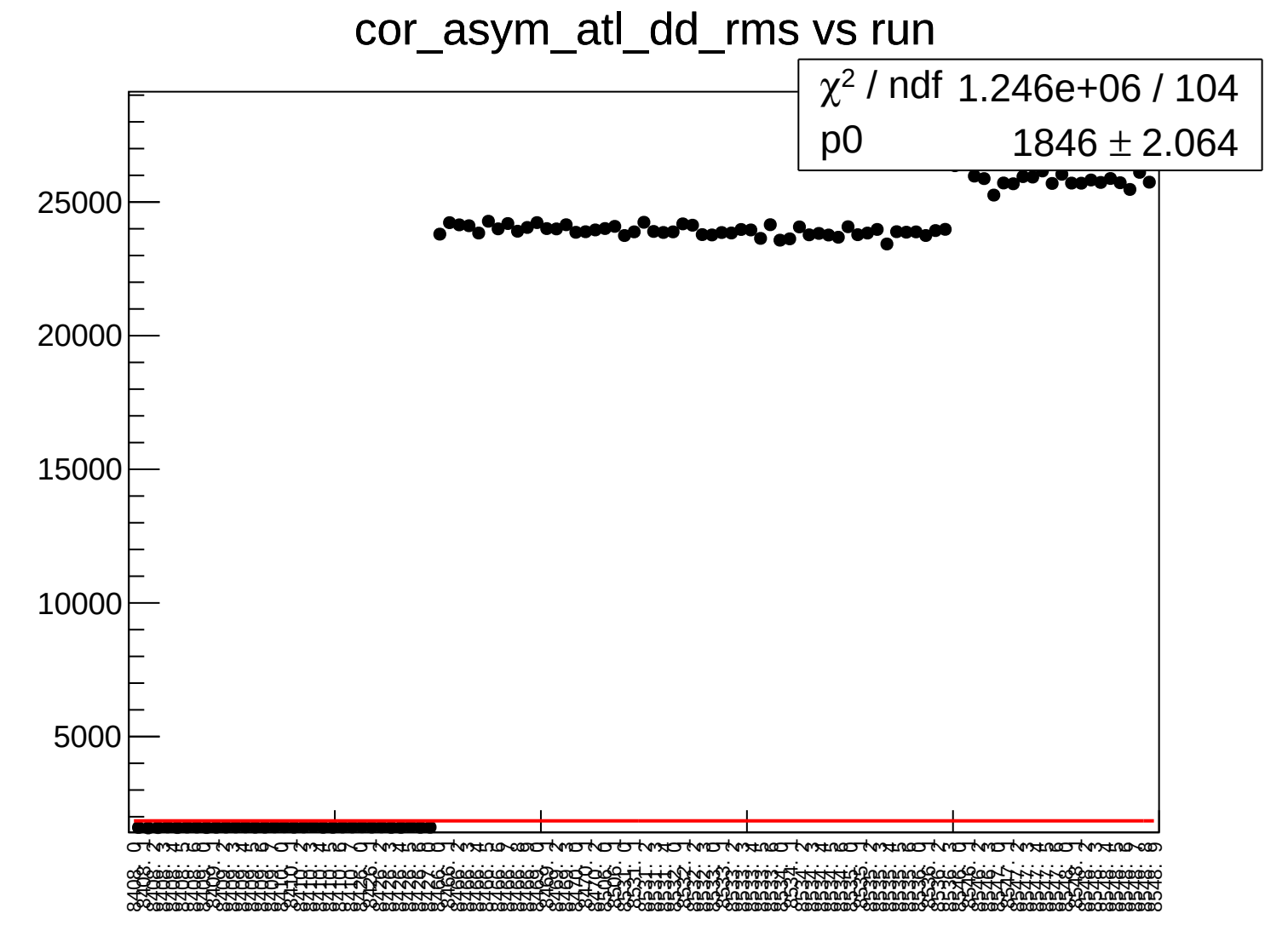

asym_atl_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 106.9 / 104
p0 2149 ± 1168
150
100
50
0
−50
−100
pull
Entries 105
Mean 58.08
Std Dev 41.38
2
1
0
−1
−2

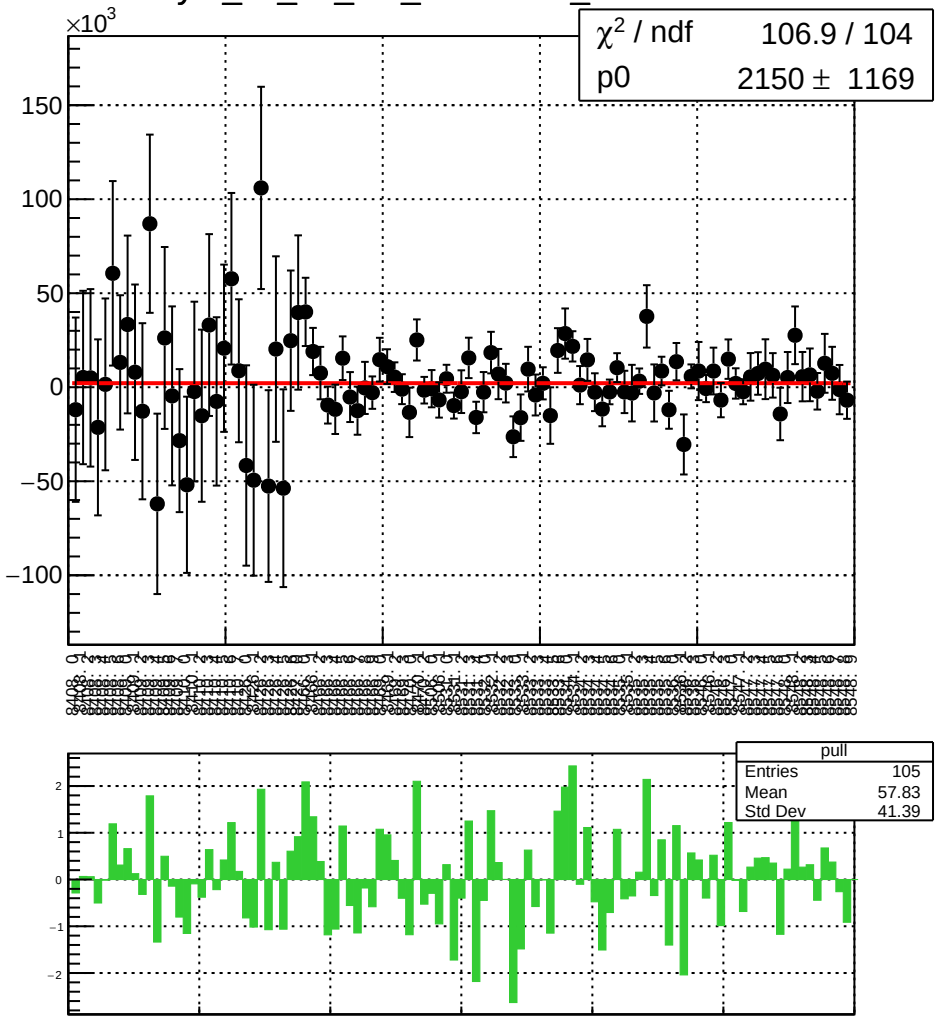

pull1D
Entries 105
Mean 0.04357
Std Dev 1.008
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

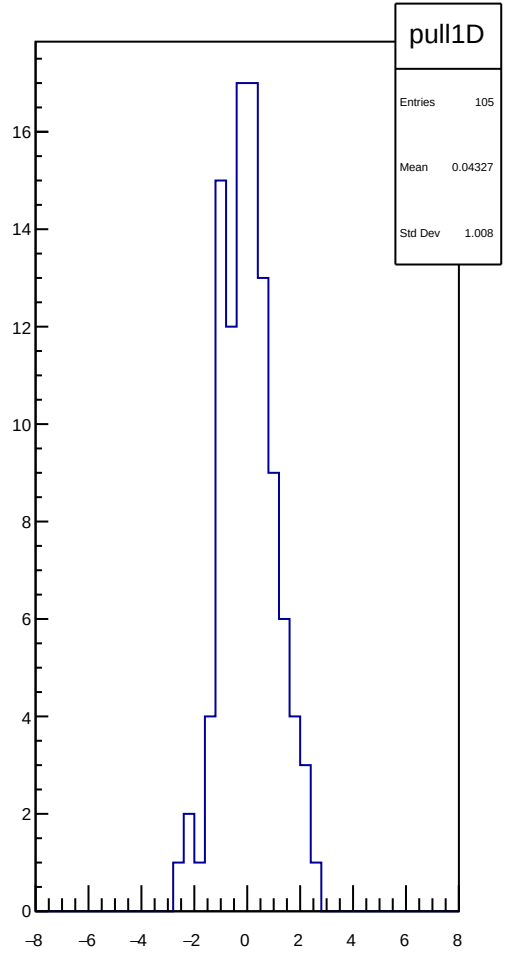

asym_atl_dd_reg_correction_rms vs run
χ^2 / ndf 4.449e+05 / 104
p0 1045 ± 0.8262
5000
4000
3000
2000
1000

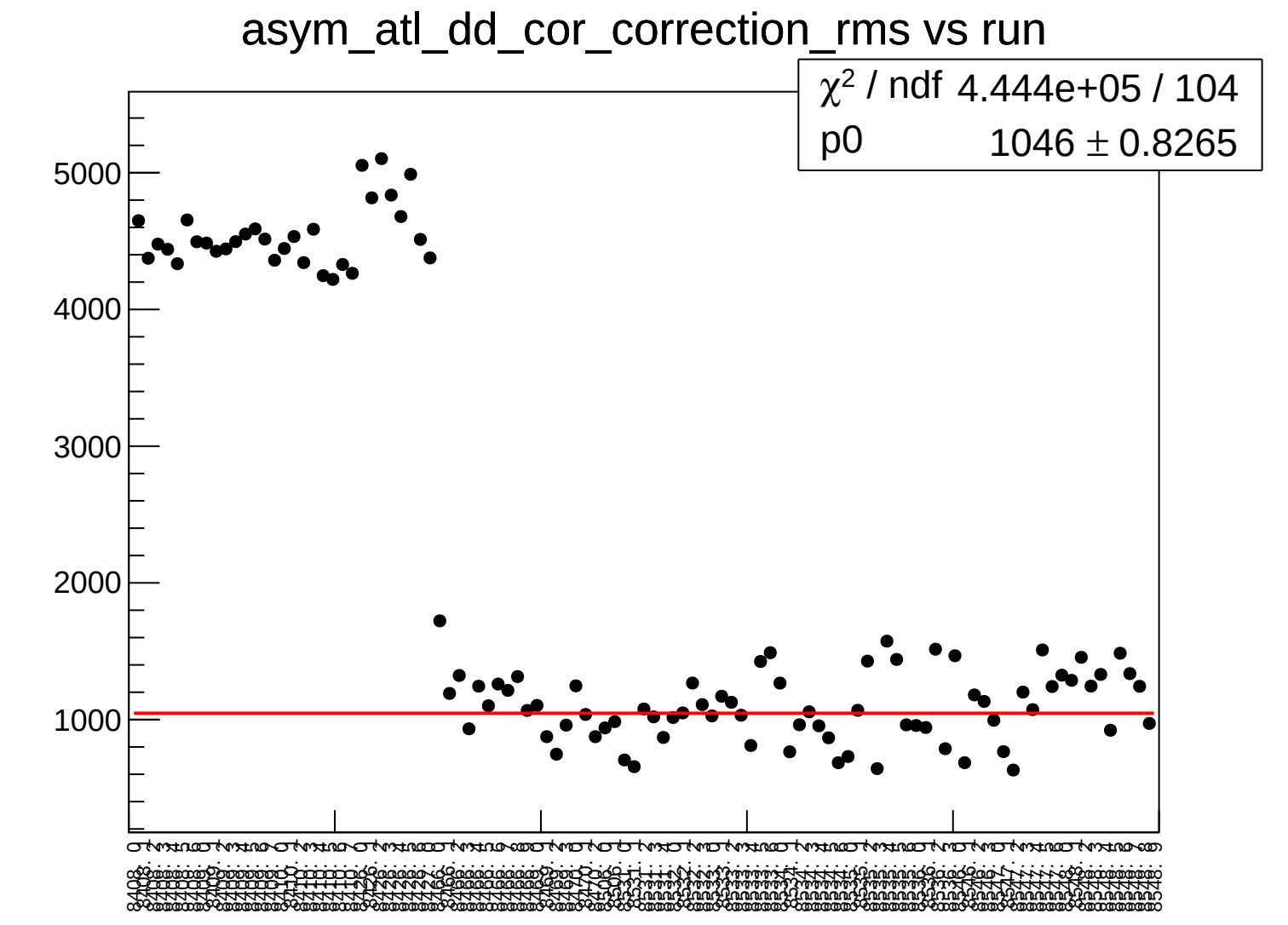

cor_asym_atl_dd_mean vs run
×10^3
χ^2 / ndf 84.64 / 104
p0 2729 ± 2919
1000
500
0
−500
−1000
pull
Entries 105
Mean 37.56
Std Dev 0
2
1
0
−1
−2

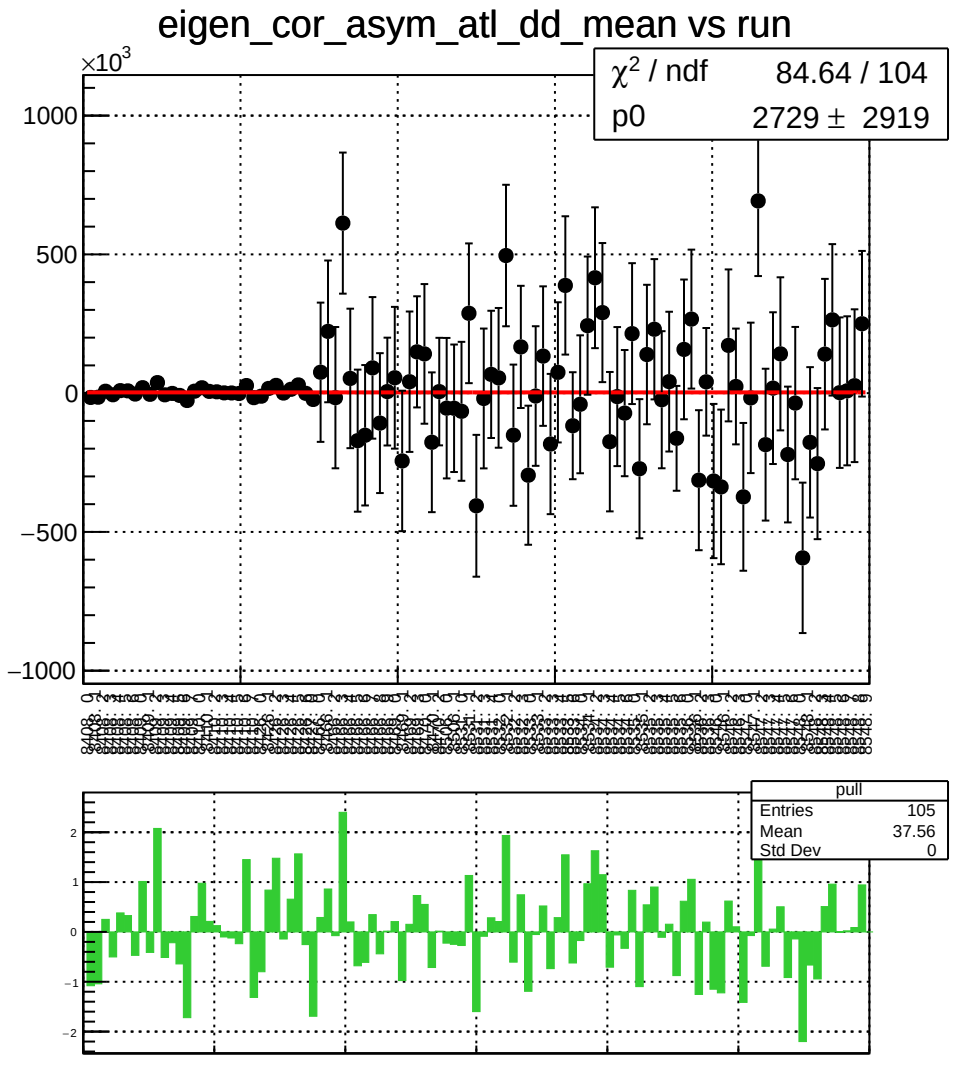

pull1D
Entries 105
Mean 0.03874
Std Dev 0.897
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

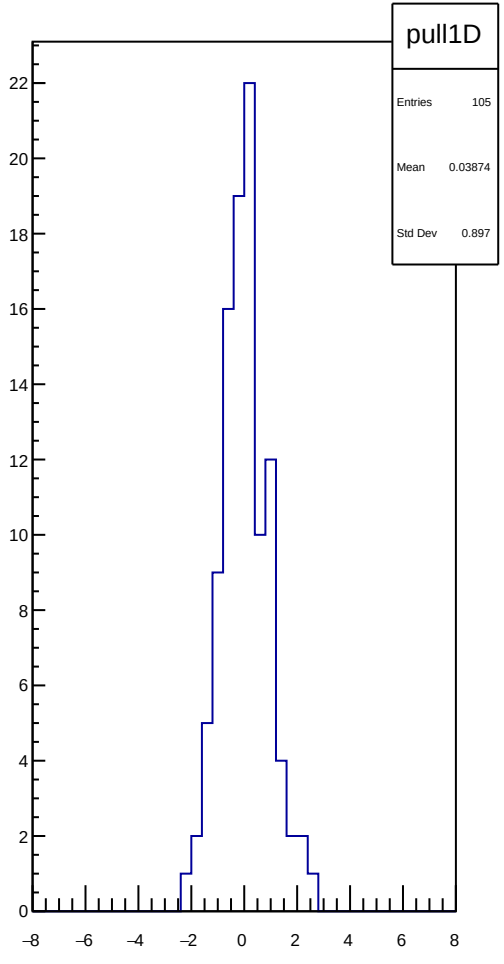

cor_asym_atl_dd_rms vs run
χ² / ndf 1.246e+06 / 104
p0 1846 ± 2.064
25000
20000
15000
10000
5000

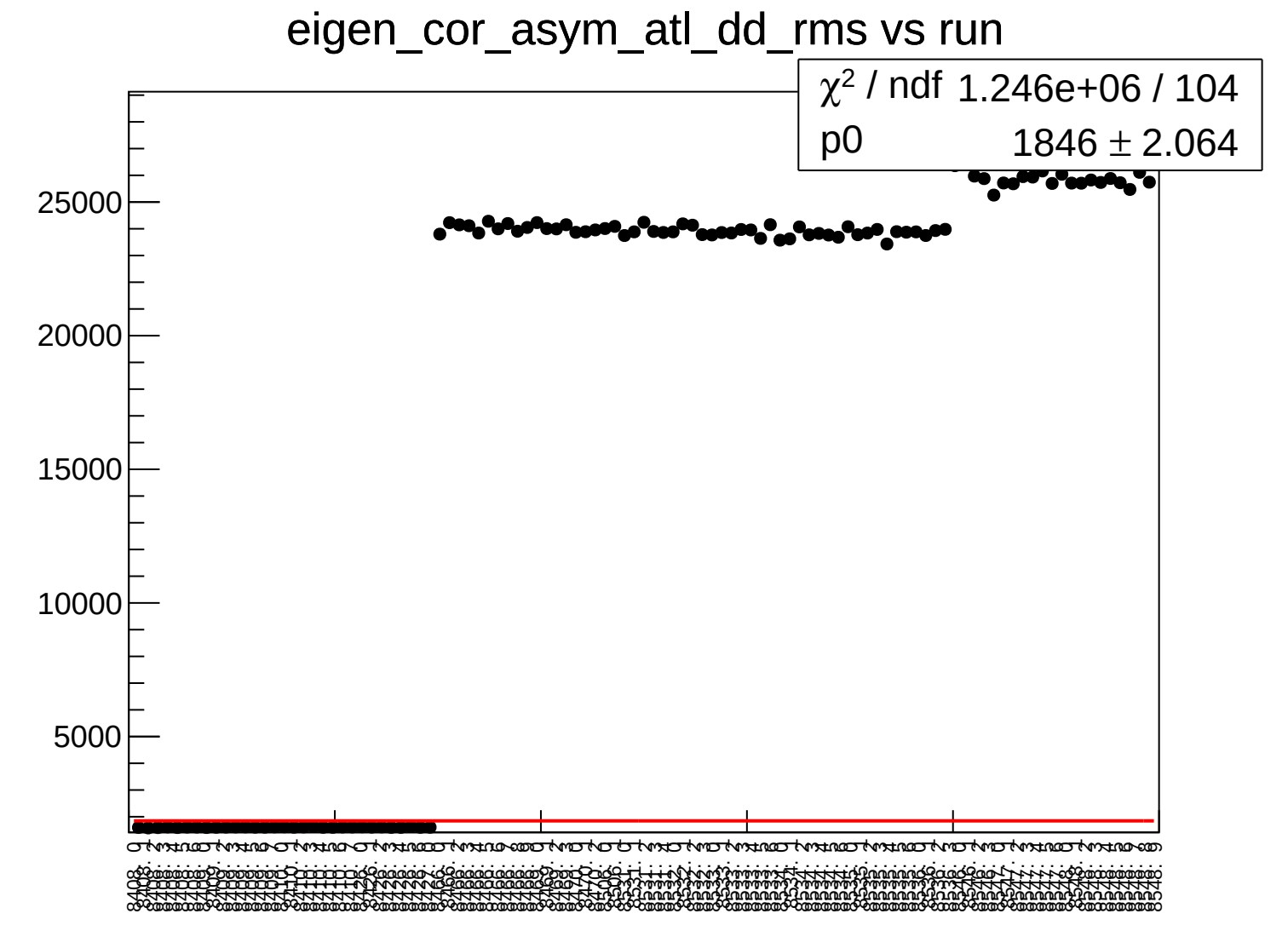

asym_atl_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 106.9 / 104
p0 2150 ± 1169
150
100
50
0
−50
−100
pull
Entries 105
Mean 57.83
Std Dev 41.39
2
1
0
−1
−2

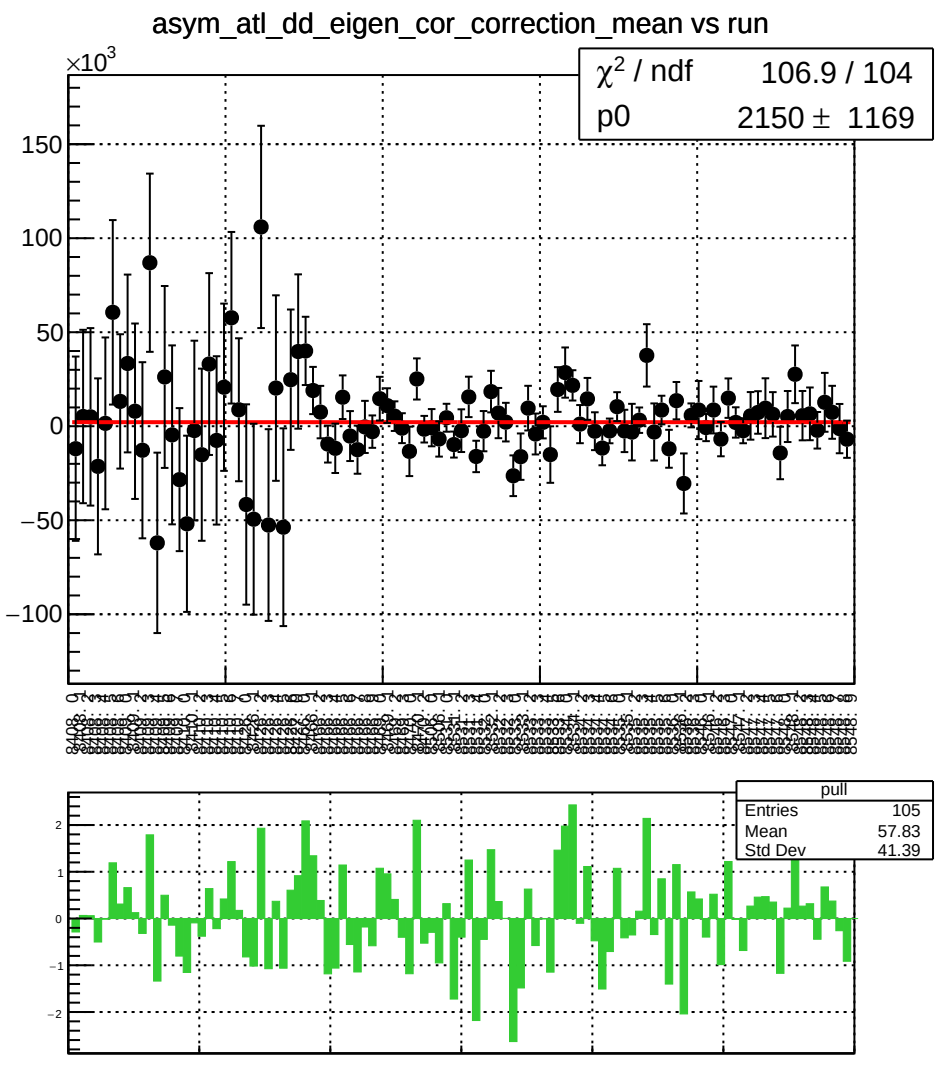

pull1D
Entries 105
Mean 0.04327
Std Dev 1.008
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

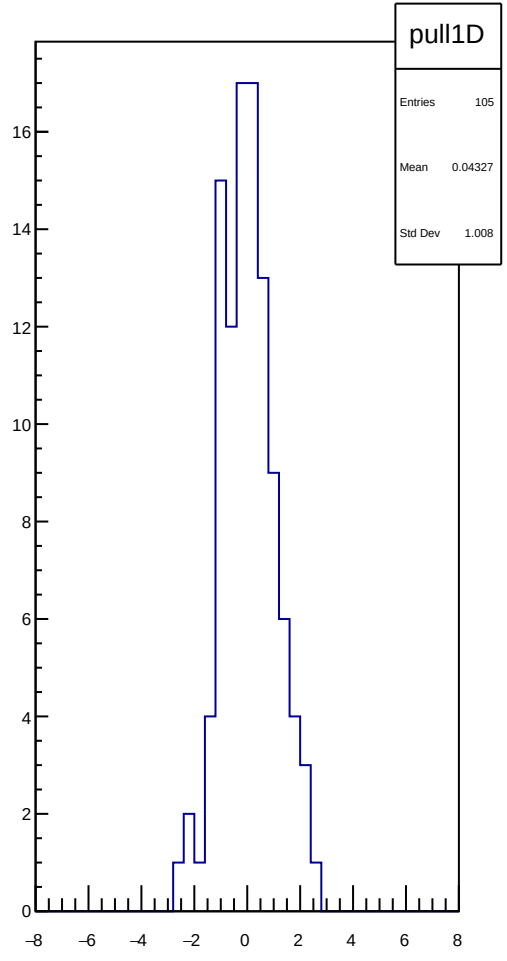

asym_atl_dd_cor_correction_rms vs run
χ² / ndf 4.444e+05 / 104
p0 1046 ± 0.8265
5000
4000
3000
2000
1000

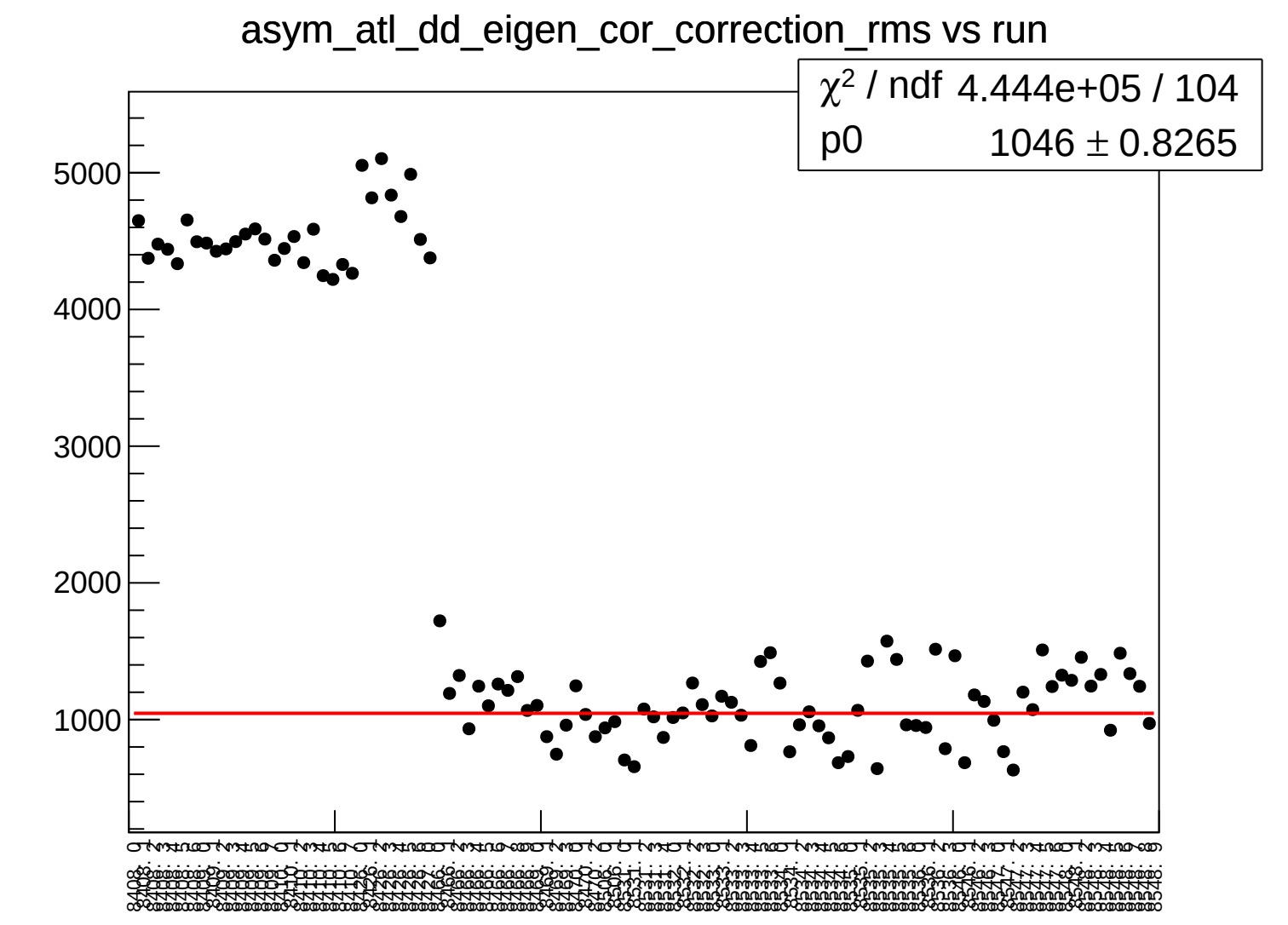

eigen_cor_asym_atl_dd_mean vs run
×10^3
χ^2 / ndf 84.64 / 104
p0 2729 ± 2919
1000
500
0
−500
−1000
pull
Entries 105
Mean 37.56
Std Dev 0
2
1
0
−1
−2

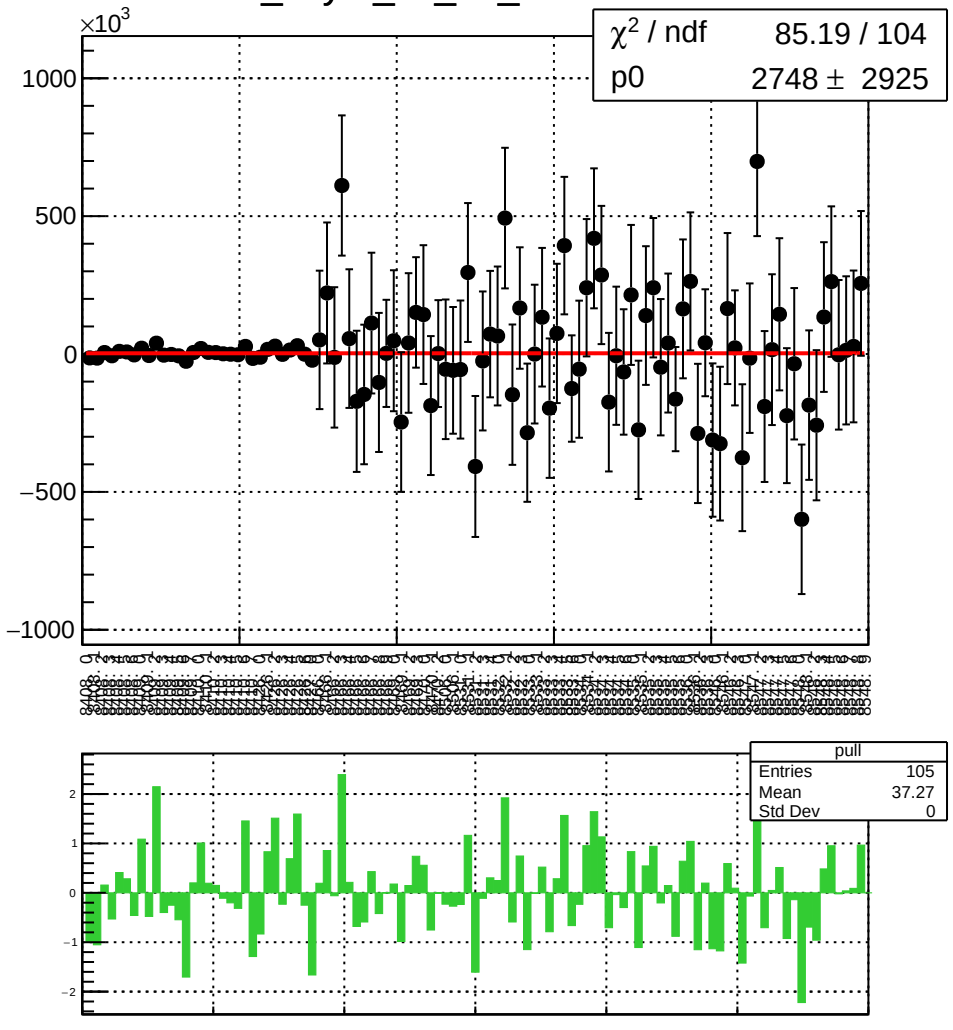

pull1D
Entries 105
Mean 0.03874
Std Dev 0.897
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

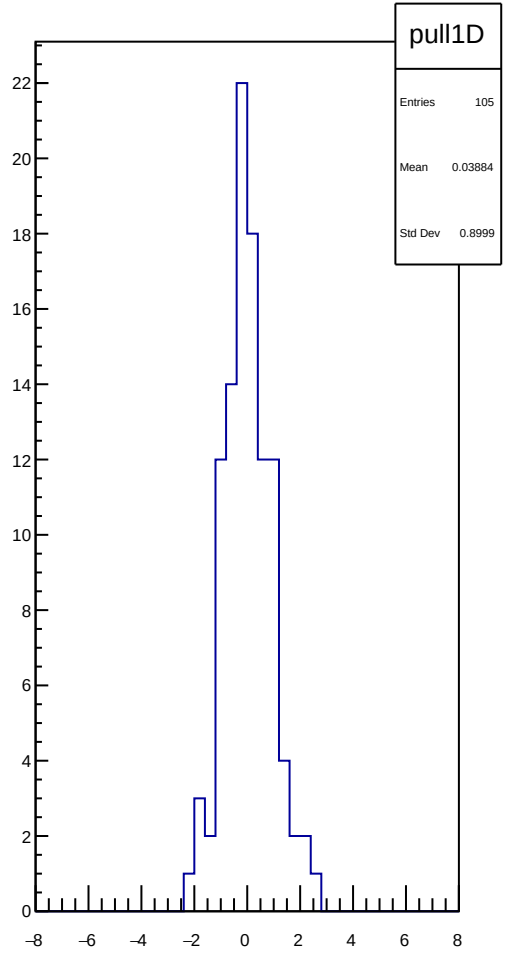

eigen_cor_asym_atl_dd_rms vs run
χ² / ndf 1.246e+06 / 104
p0 1846 ± 2.064
25000
20000
15000
10000
5000

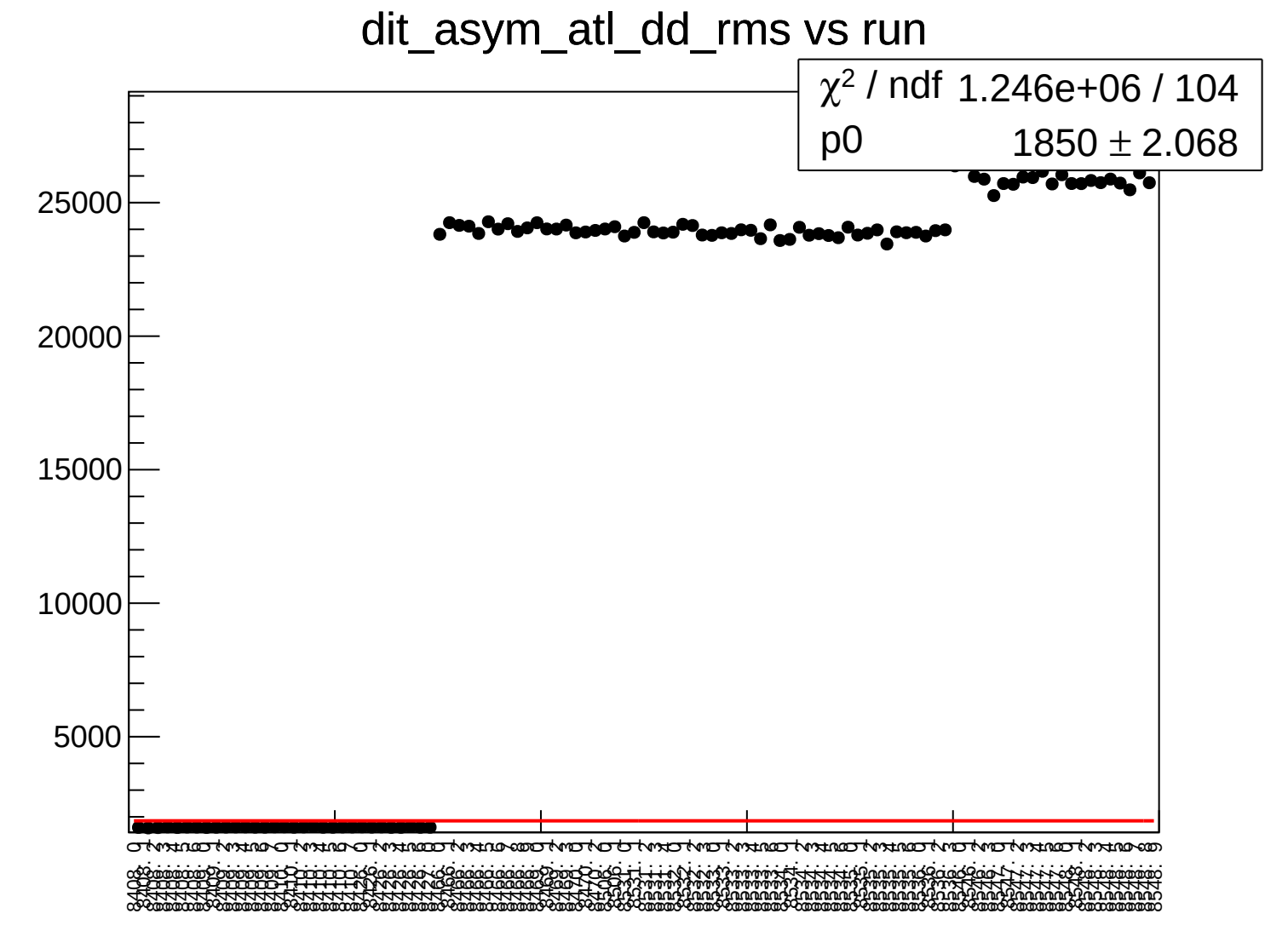

asym_atl_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 106.9 / 104
p0 2150 ± 1169
150
100
50
0
−50
−100
pull
Entries 105
Mean 57.83
Std Dev 41.39
2
1
0
−1
−2

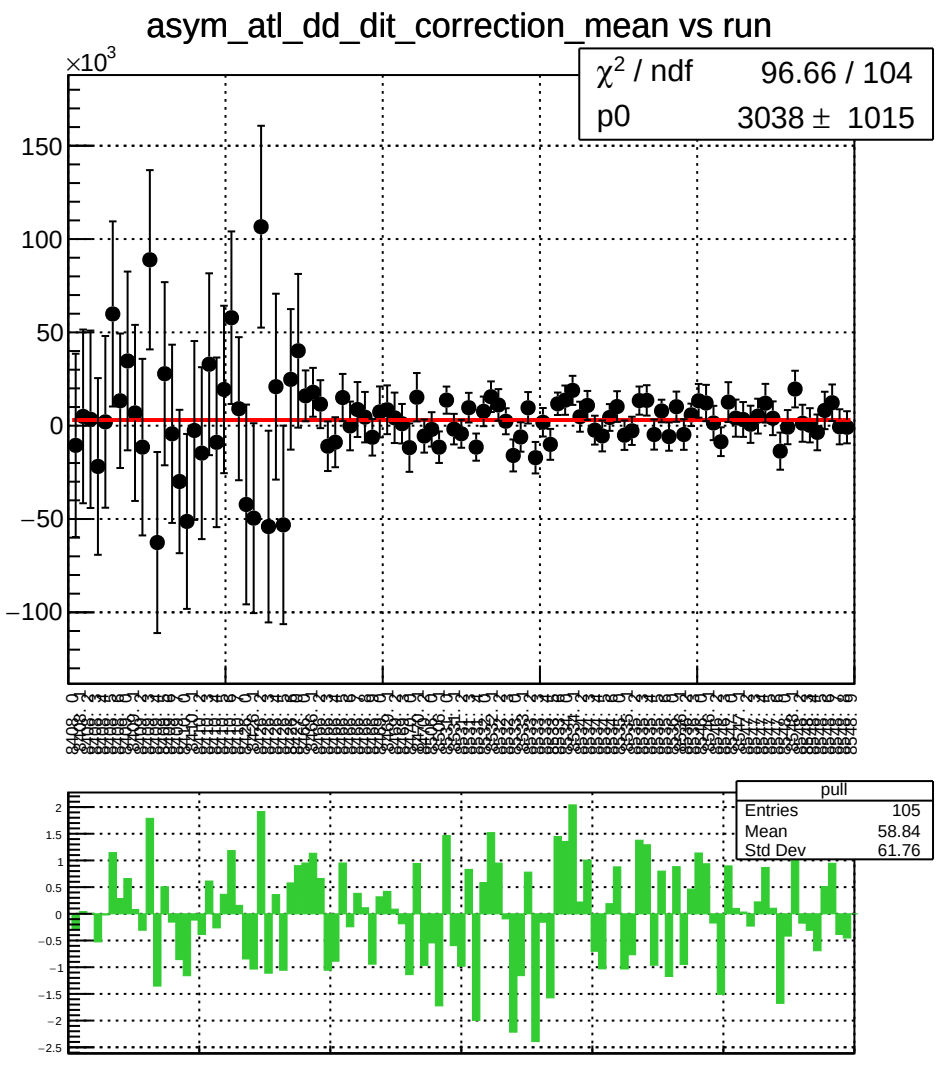

pull1D
Entries 105
Mean 0.04327
Std Dev 1.008
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

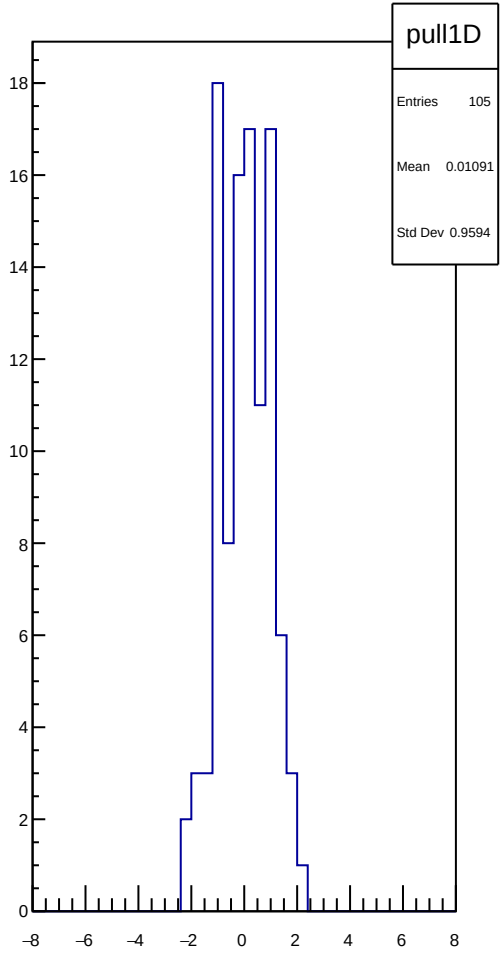

asym_atl_dd_eigen_cor_correction_rms vs run
χ^2 / ndf 4.444e+05 / 104
p0 1046 ± 0.8265
5000
4000
3000
2000
1000

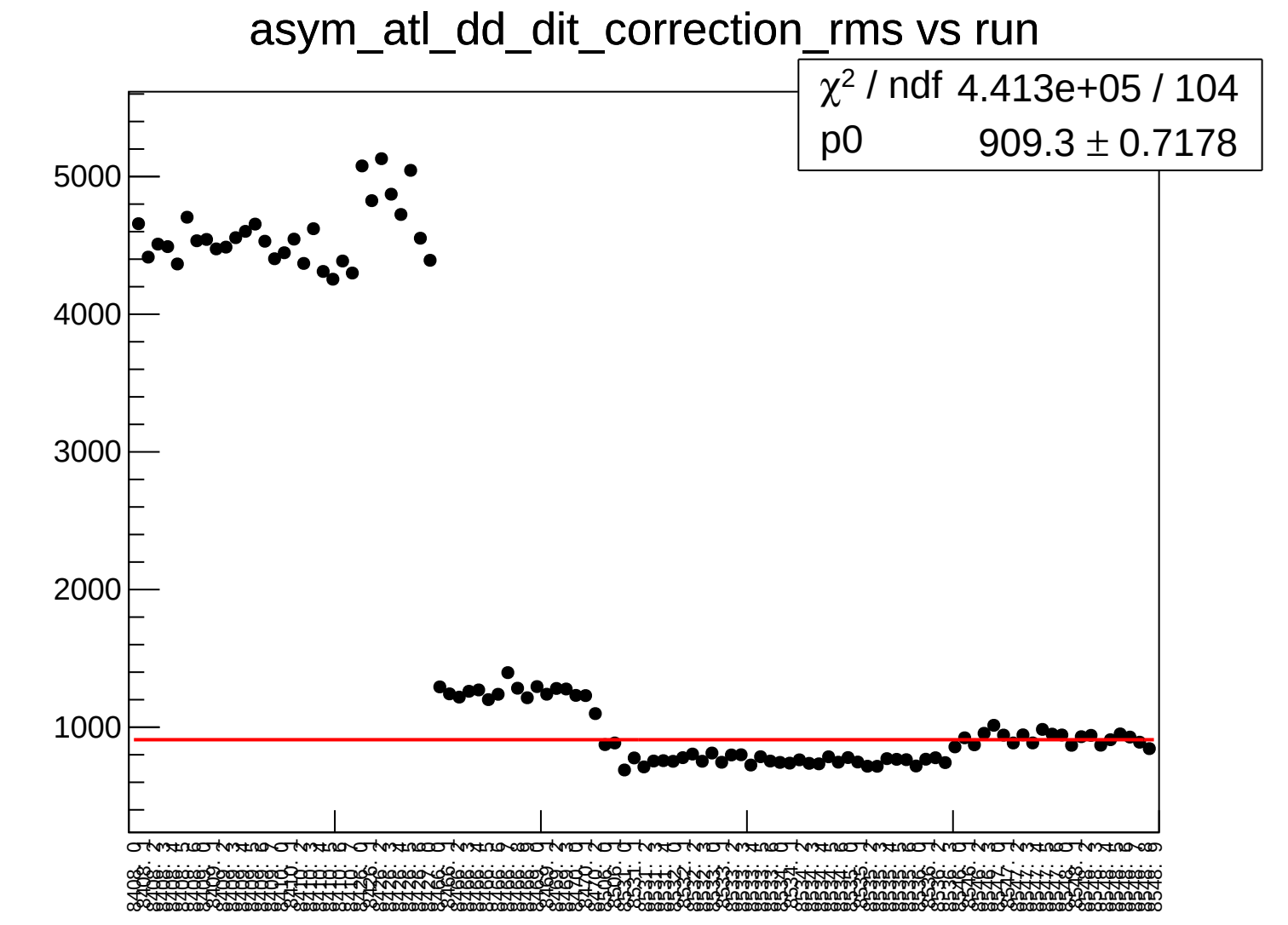

dit_asym_atl_dd_mean vs run
×10^3
χ^2 / ndf 85.19 / 104
p0 2748 ± 2925
1000
500
0
−500
−1000
pull
Entries 105
Mean 37.27
Std Dev 0
2
1
0
−1
−2

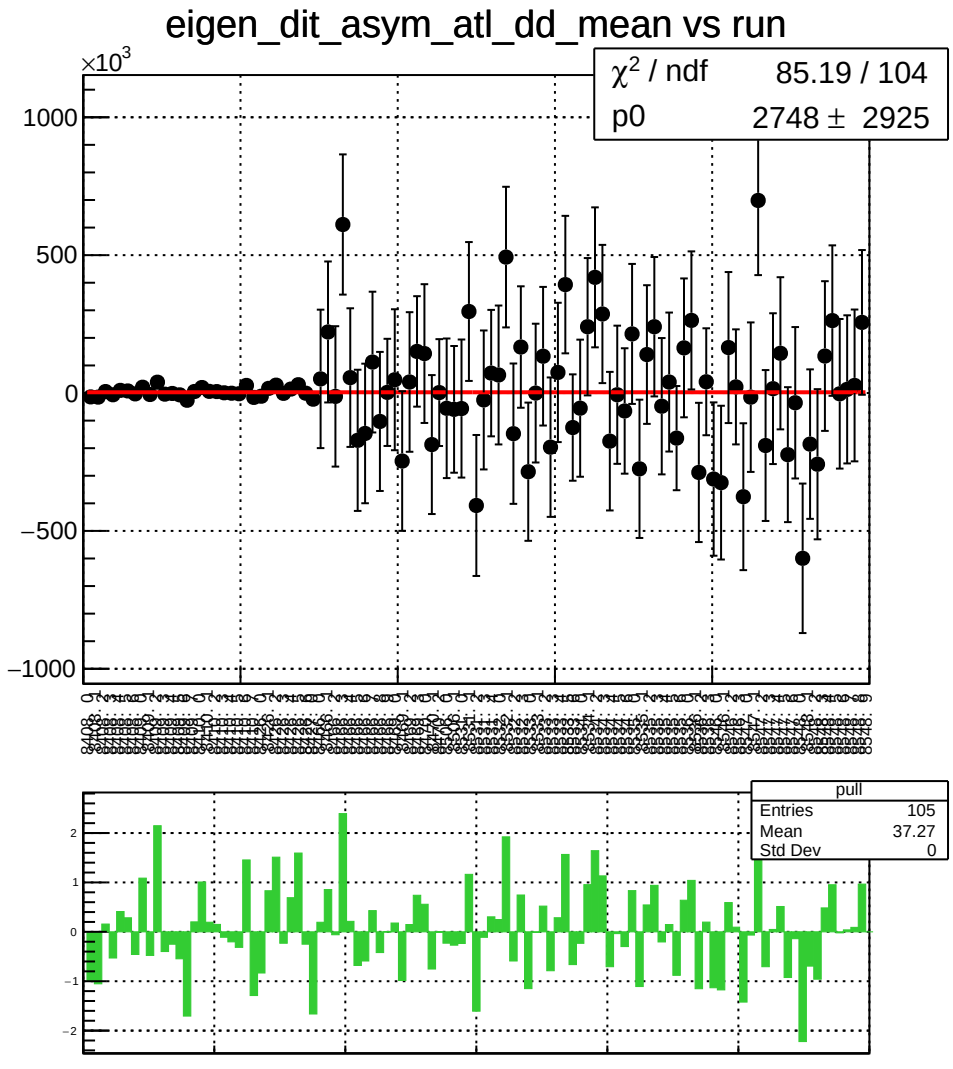

pull1D
Entries 105
Mean 0.03884
Std Dev 0.8999
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

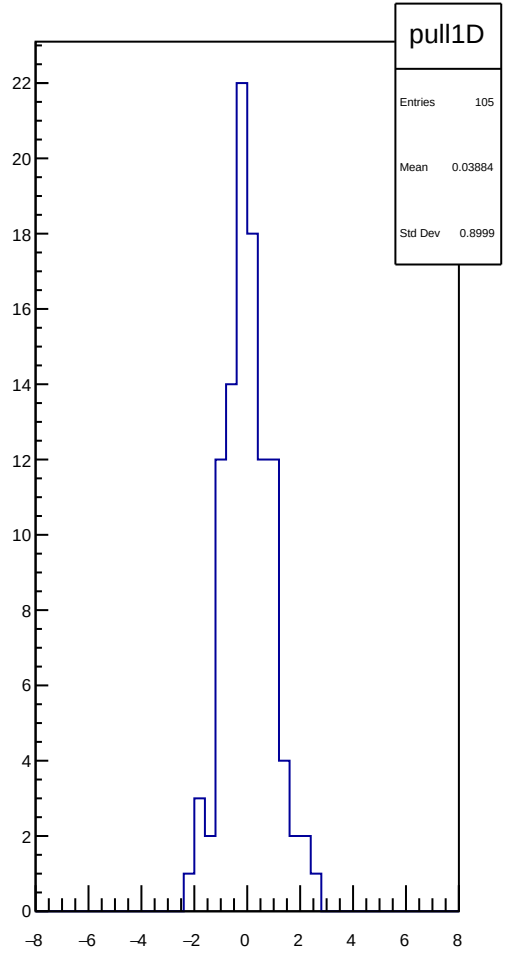

dit_asym_atl_dd_rms vs run
χ² / ndf 1.246e+06 / 104
p0 1850 ± 2.068
25000
20000
15000
10000
5000

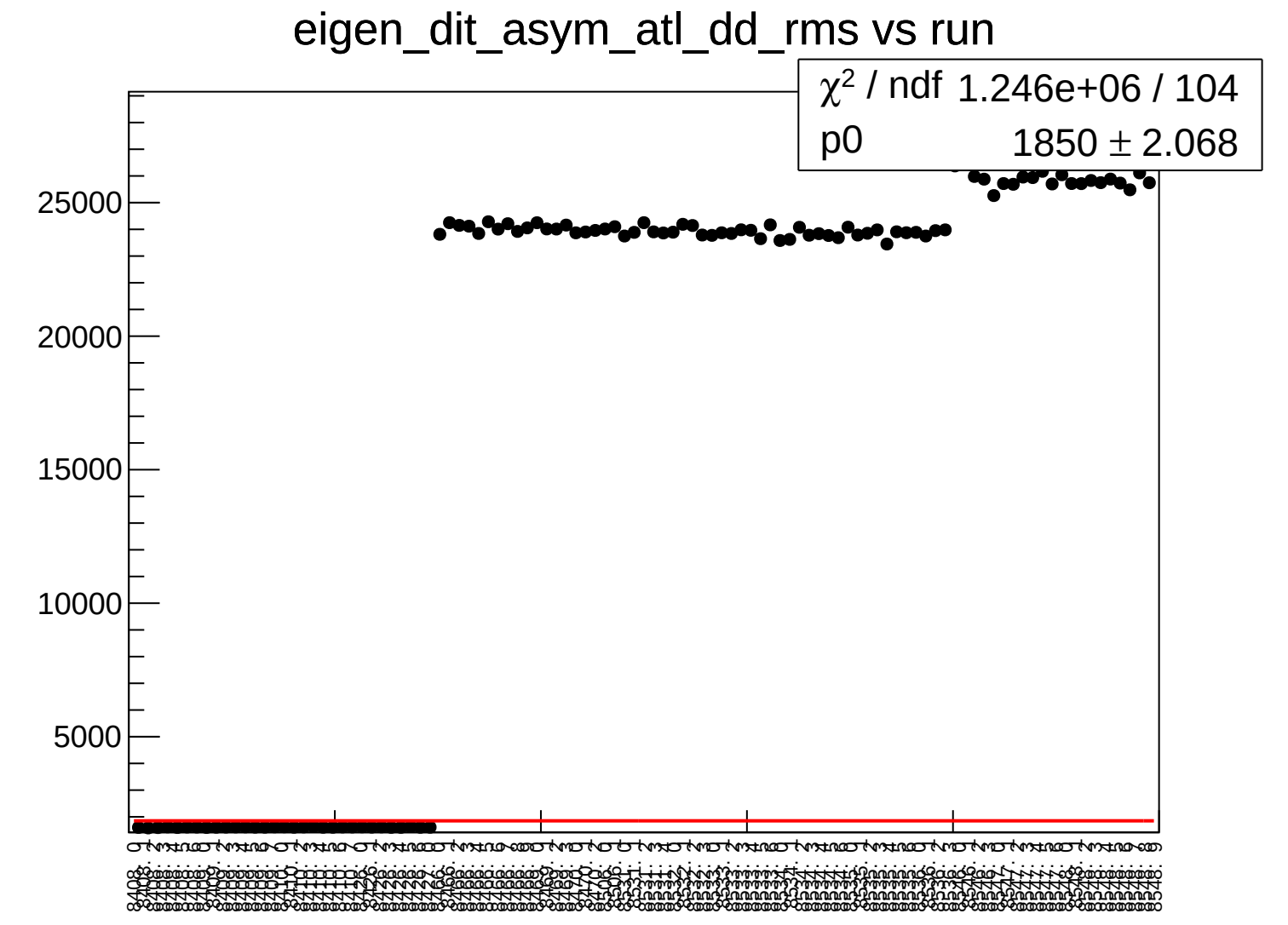

asym_atl_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 96.66 / 104
p0 3038 ± 1015
150
100
50
0
−50
−100
pull
Entries 105
Mean 58.84
Std Dev 61.76
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

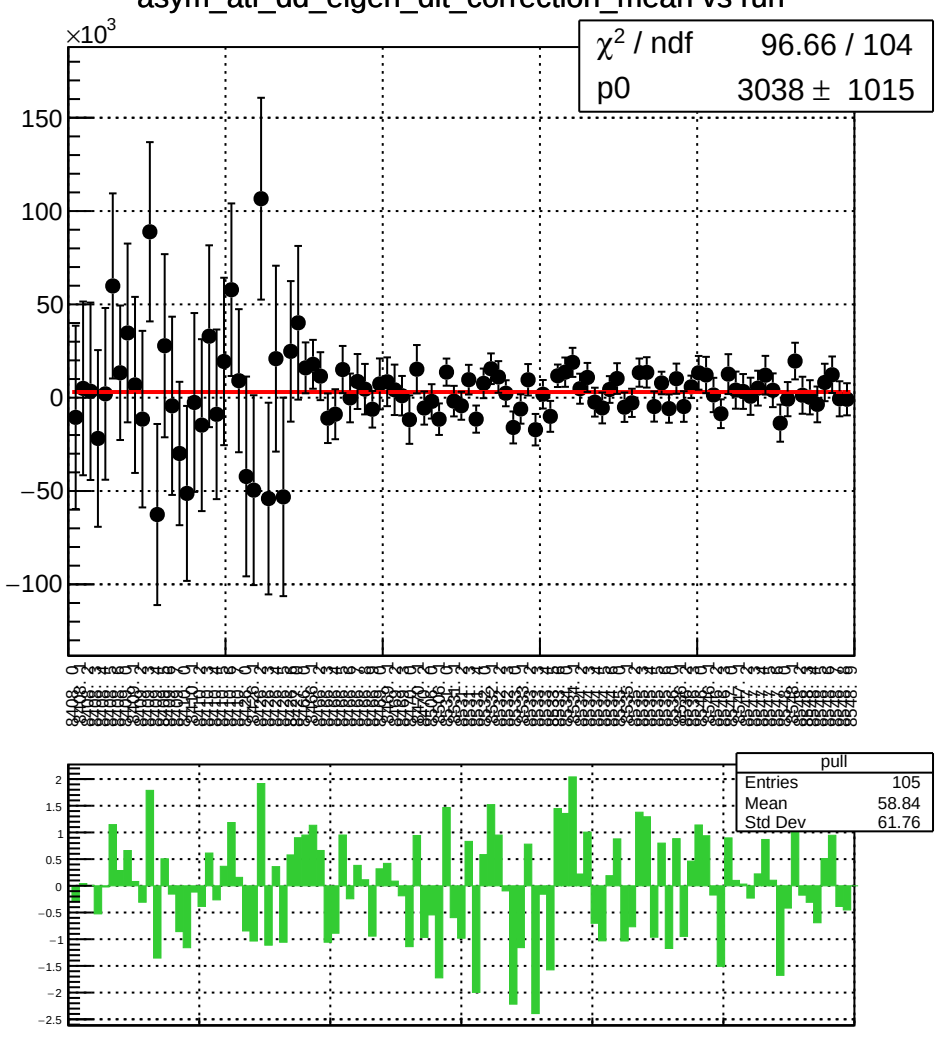

pull1D
Entries 105
Mean 0.01091
Std Dev 0.9594
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

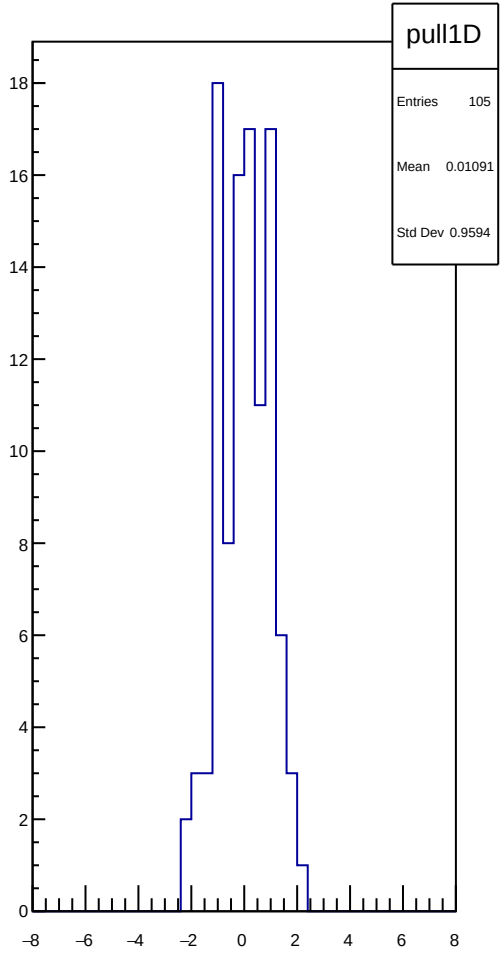

asym_atl_dd_dit_correction_rms vs run
χ^2 / ndf 4.413e+05 / 104
p0 909.3 ± 0.7178
5000
4000
3000
2000
1000

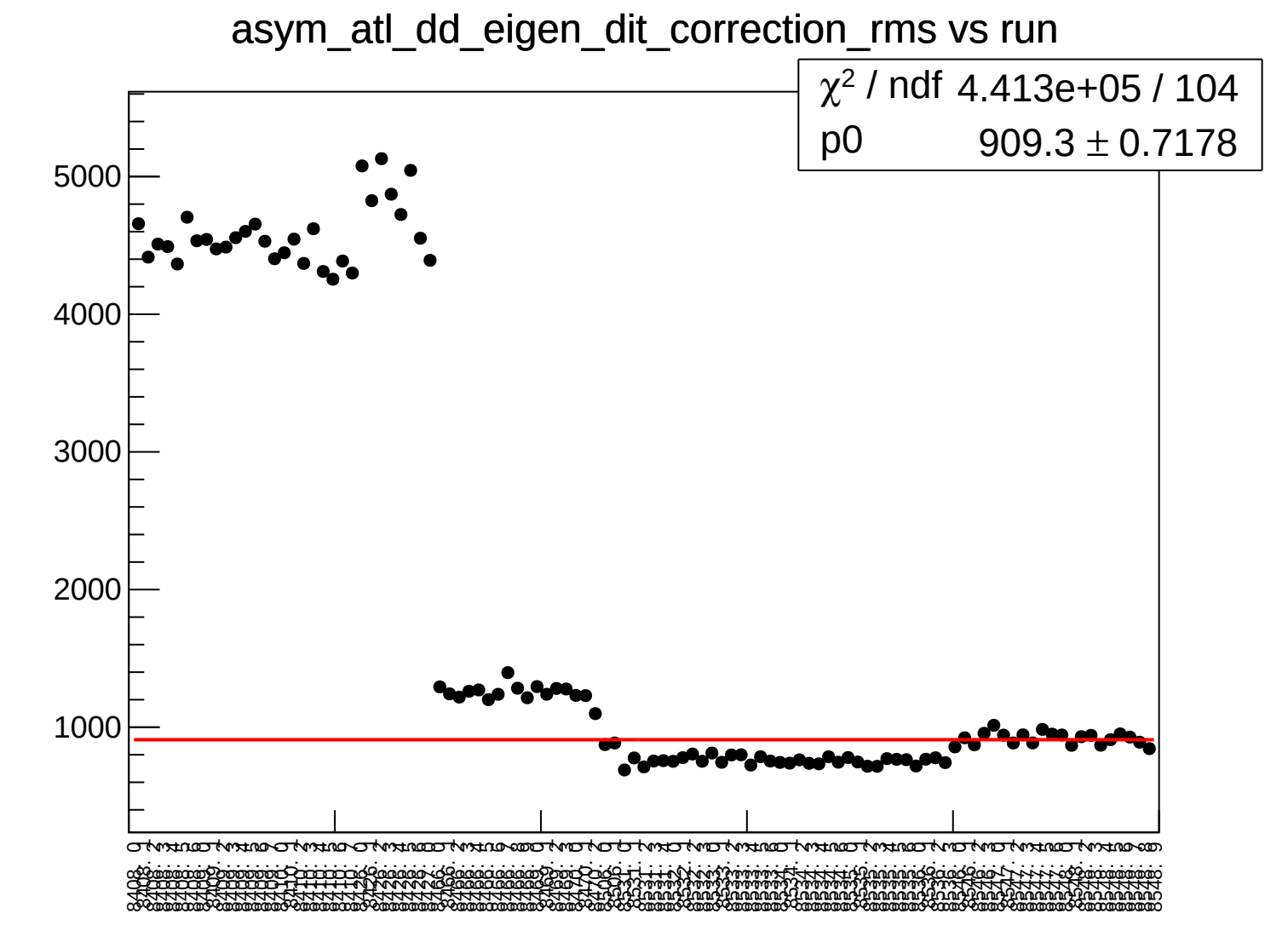

eigen_dit_asym_atl_dd_mean vs run
×10^3
χ^2 / ndf 85.19 / 104
p0 2748 ± 2925
1000
500
0
−500
−1000
pull
Entries 105
Mean 37.27
Std Dev 0
2
1
0
−1
−2

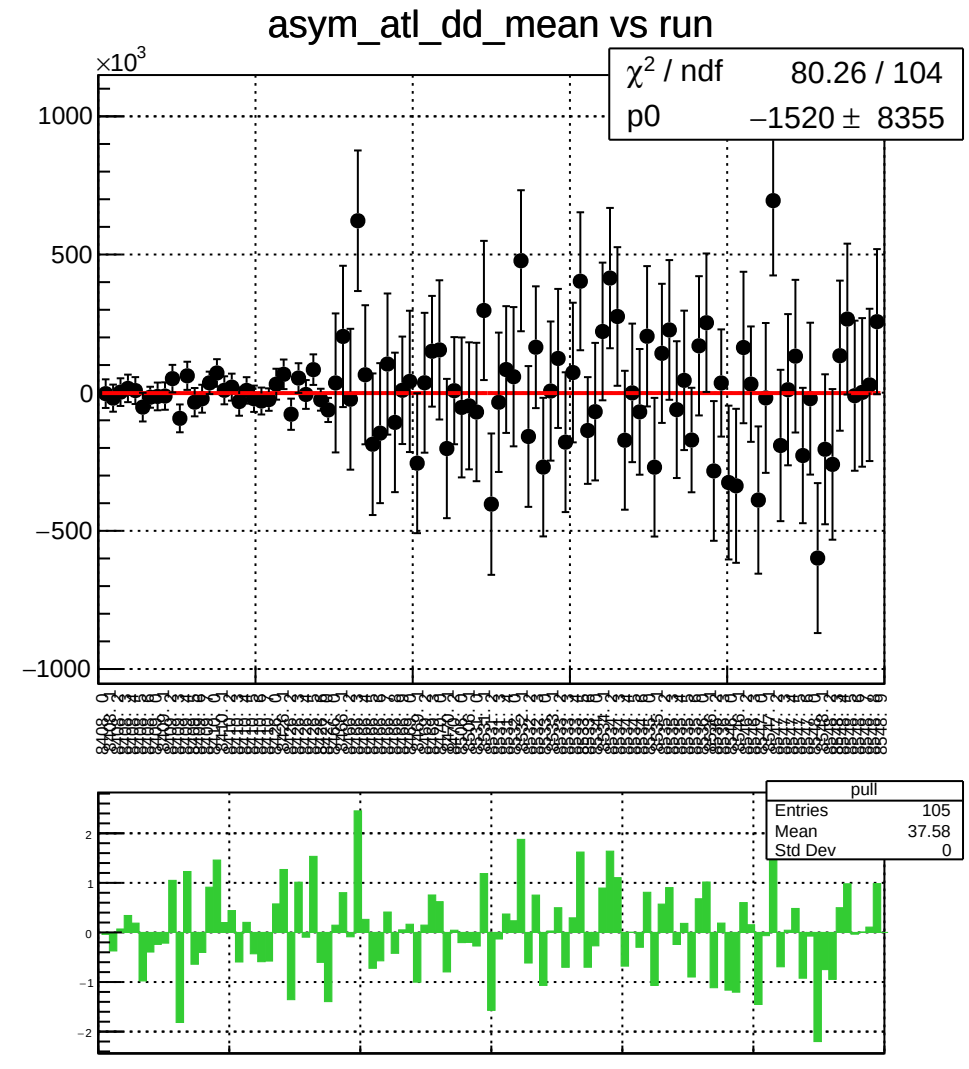

pull1D
Entries 105
Mean 0.03884
Std Dev 0.8999
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

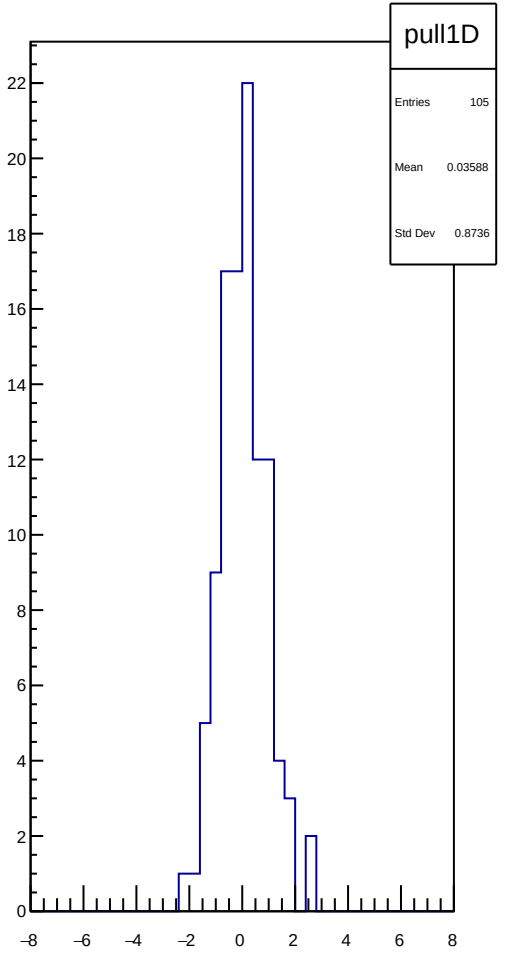

eigen_dit_asym_atl_dd_rms vs run
χ^2 / ndf 1.246e+06 / 104
p0 1850 ± 2.068
25000
20000
15000
10000
5000

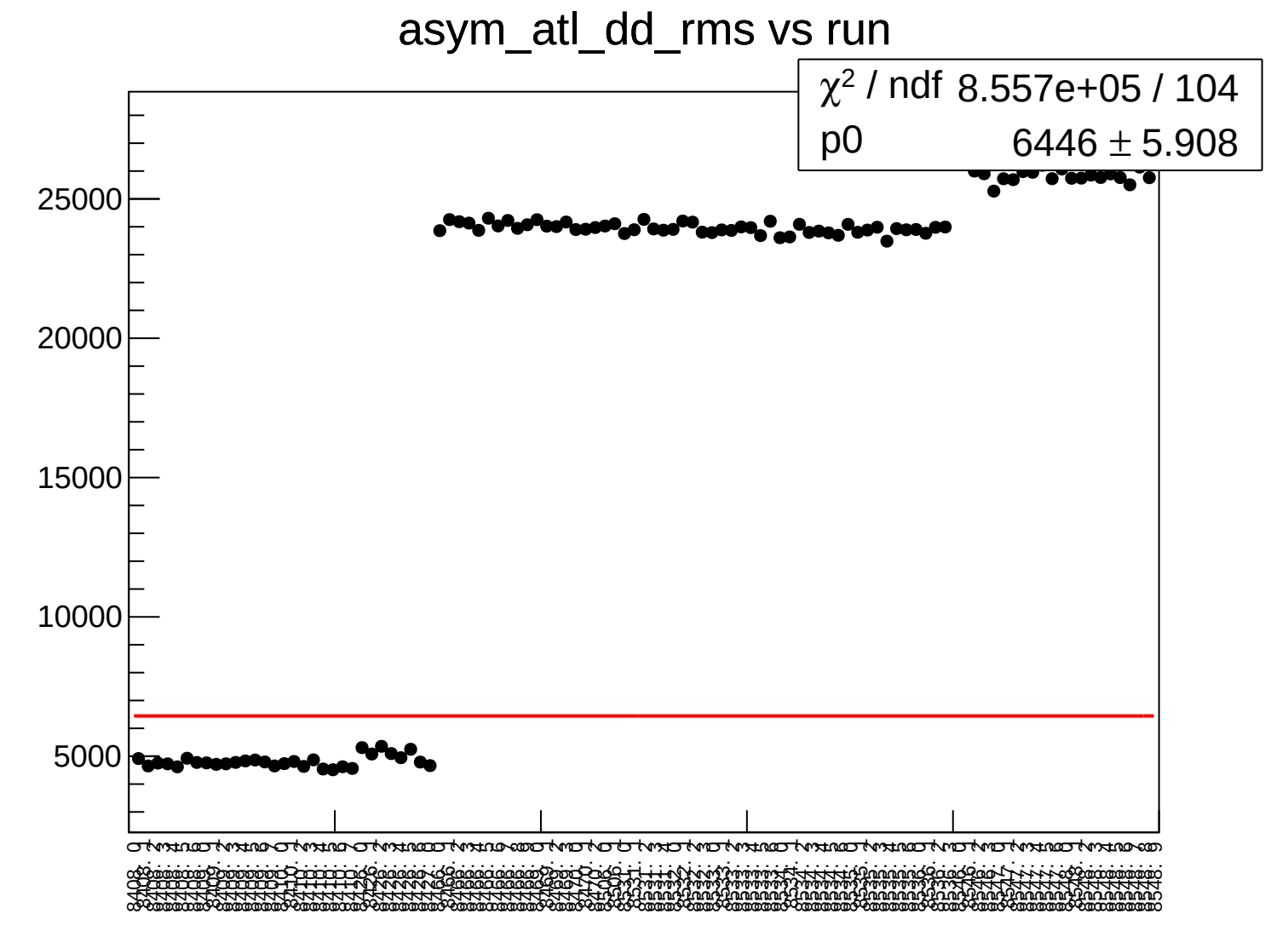

asym_atl_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 96.66 / 104
p0 3038 ± 1015
150
100
50
0
−50
−100
pull
Entries 105
Mean 58.84
Std Dev 61.76
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

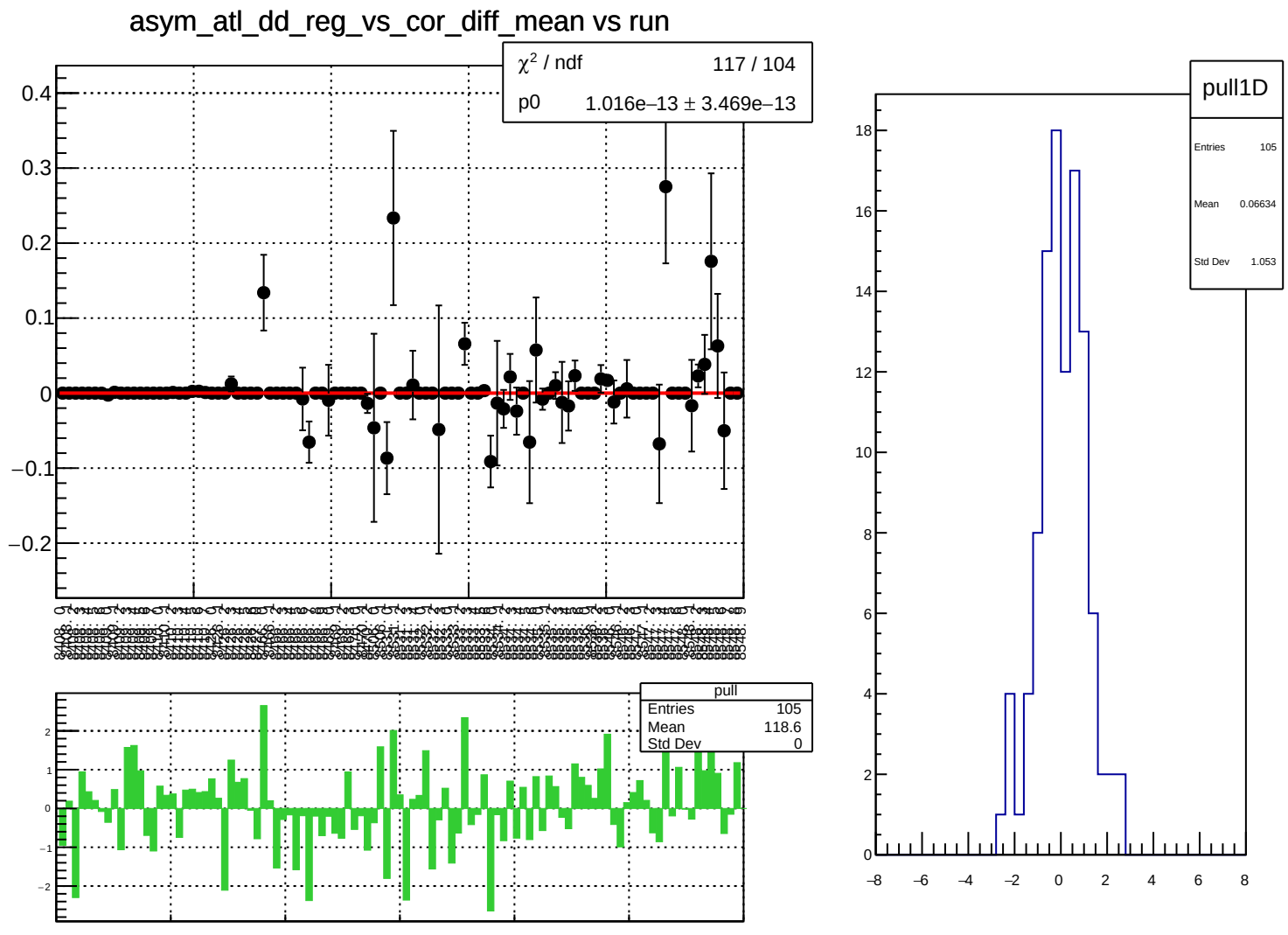

pull1D
Entries 105
Mean 0.01091
Std Dev 0.9594
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

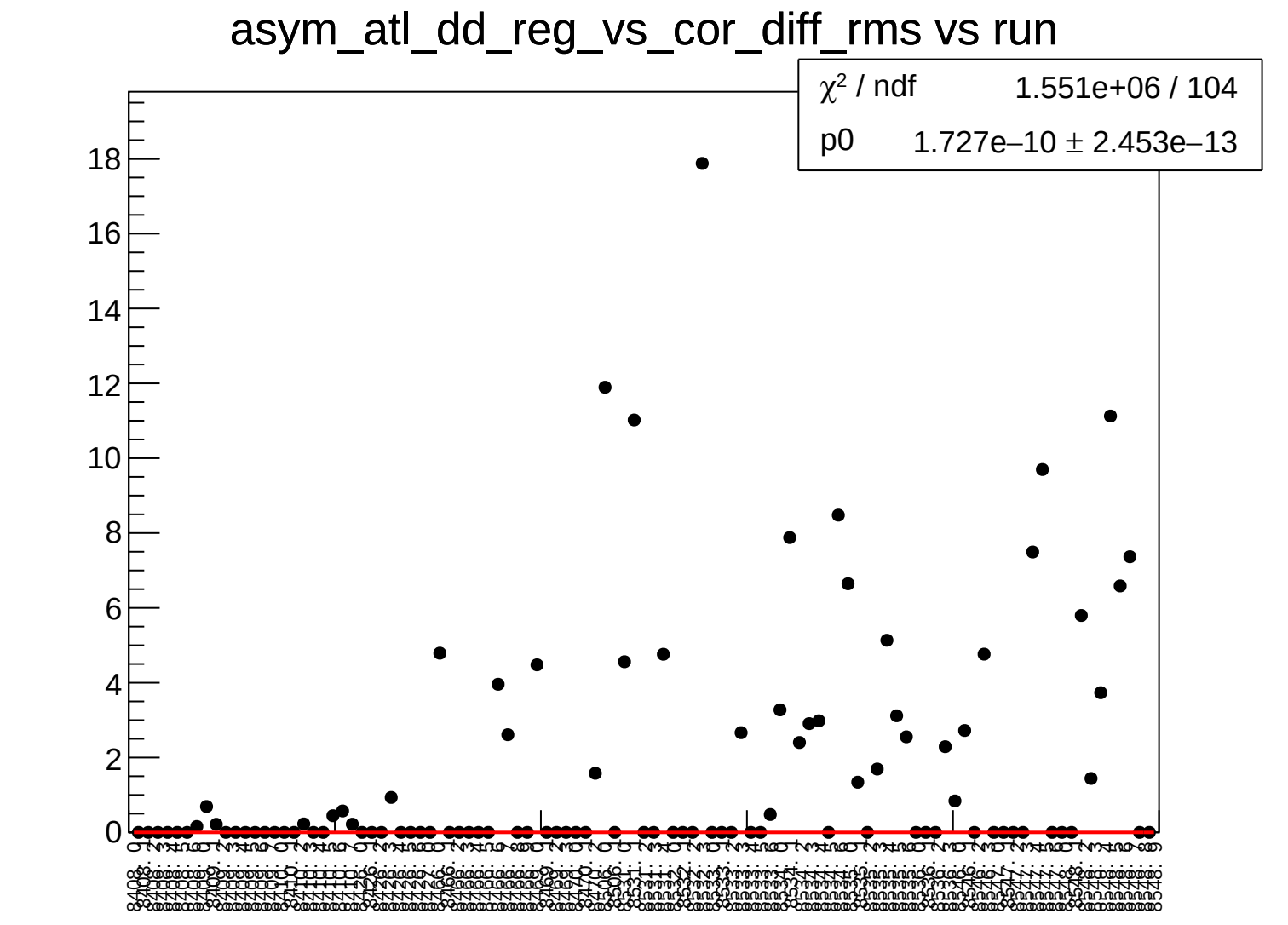

asym_atl_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 4.413e+05 / 104
p0 909.3 ± 0.7178
5000
4000
3000
2000
1000

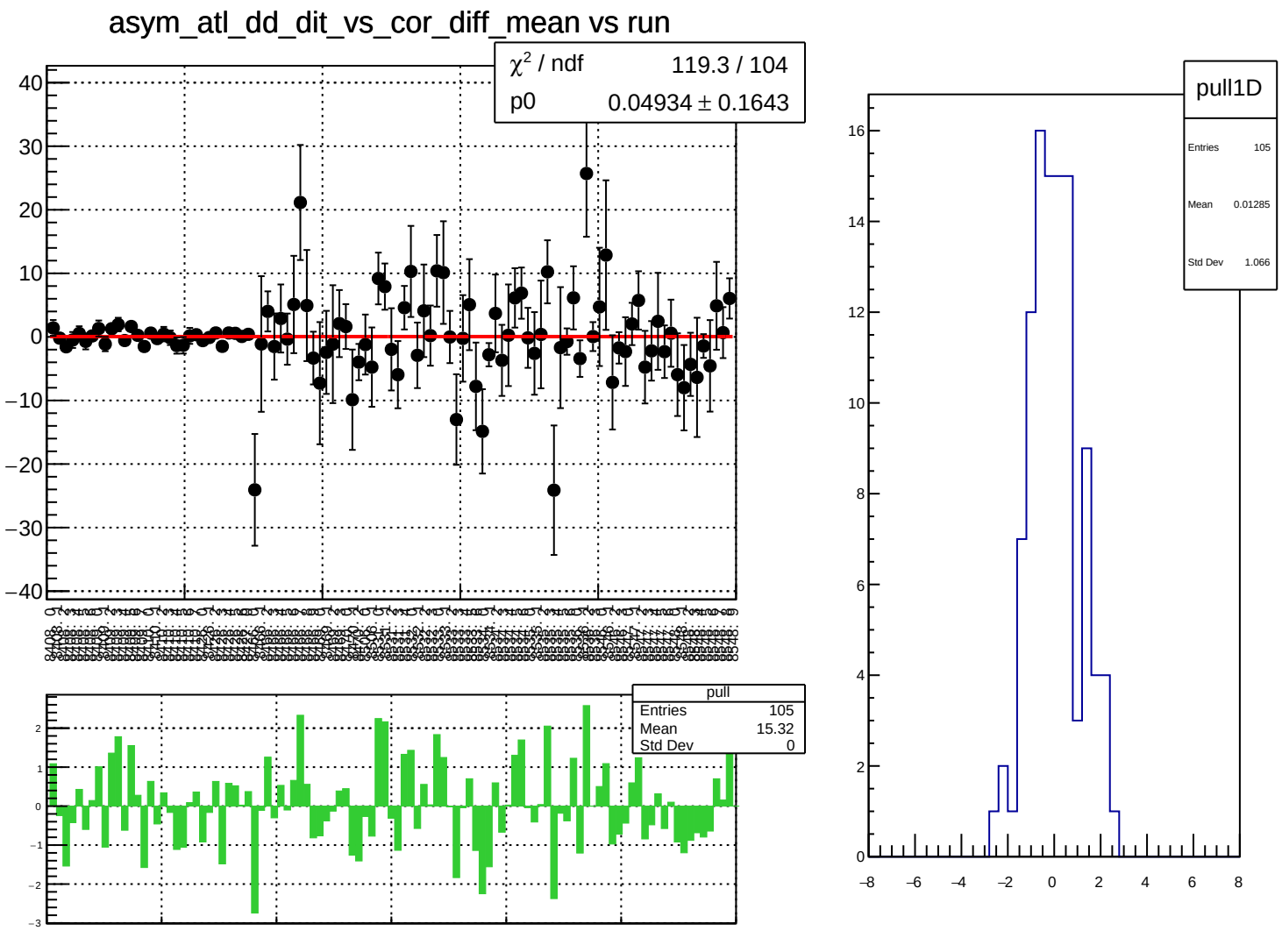

asym_atl_dd_mean vs run
×10^3
χ^2 / ndf 80.26 / 104
p0 −1520 ± 8355
1000
500
0
−500
−1000
pull
Entries 105
Mean 37.58
Std Dev 0
2
1
0
−1
−2

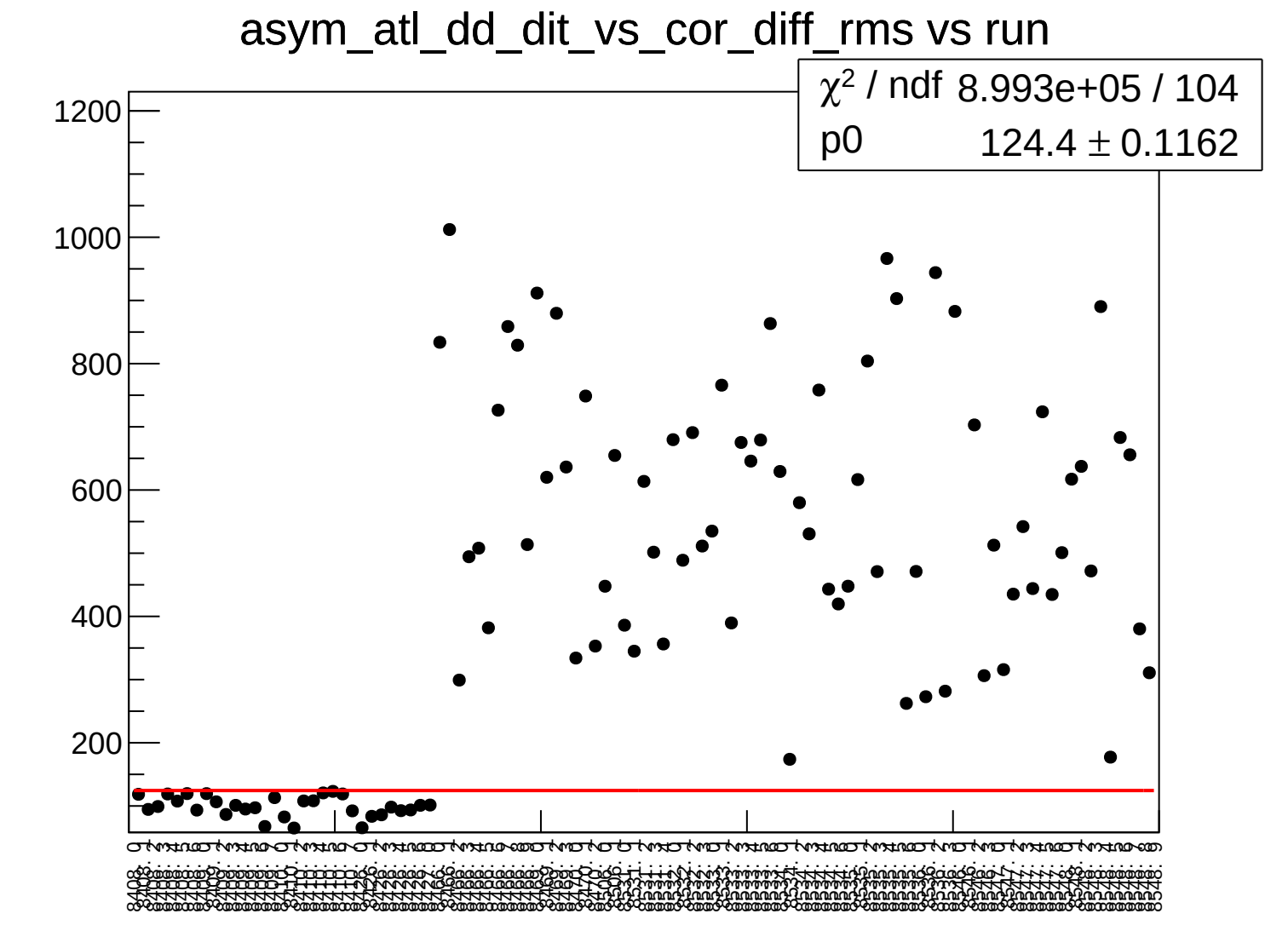

pull1D
Entries 105
Mean 0.03588
Std Dev 0.8736
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

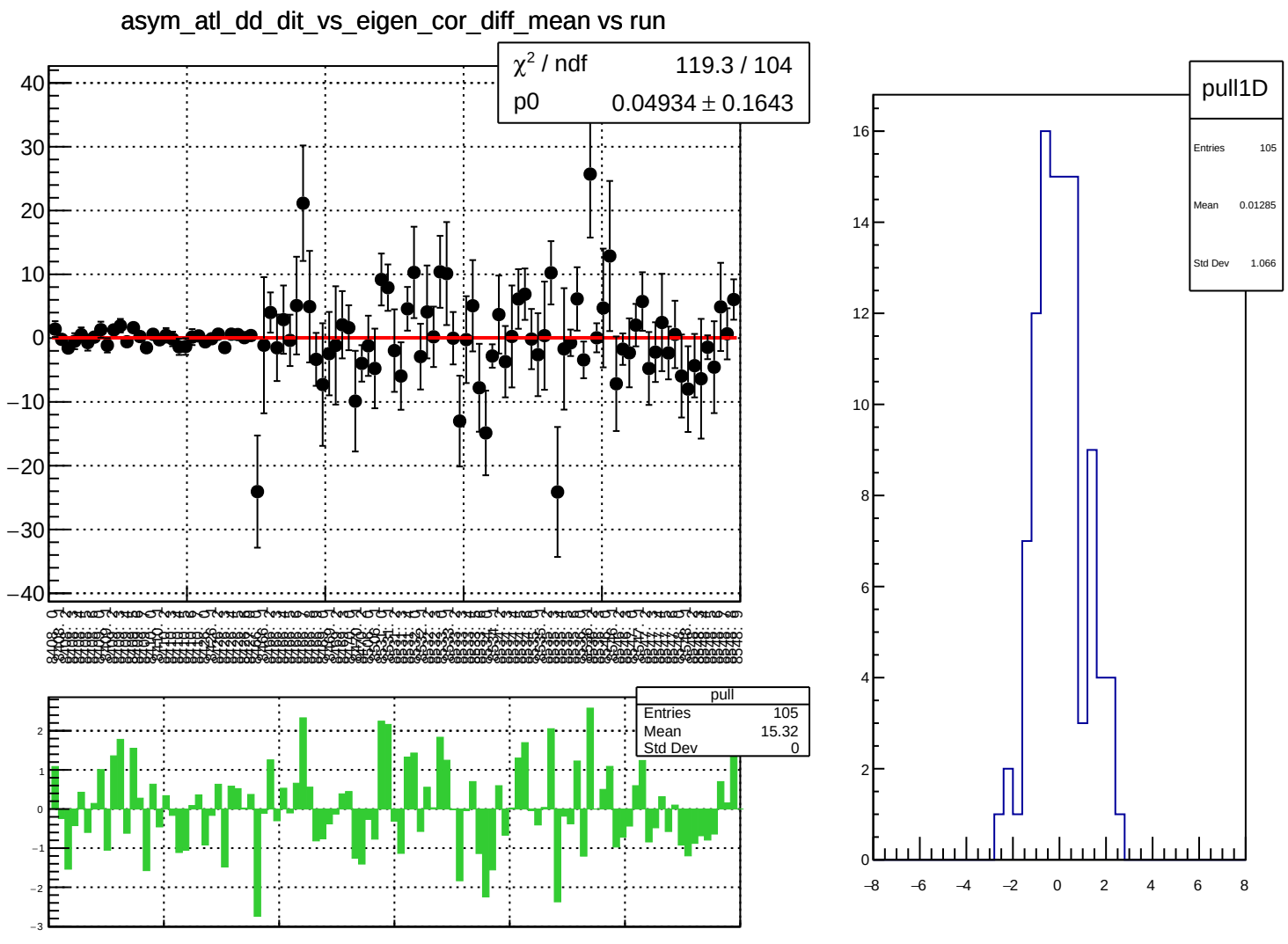

asym_atl_dd_rms vs run
χ^2 / ndf 8.557e+05 / 104
p0 6446 ± 5.908
25000
20000
15000
10000
5000

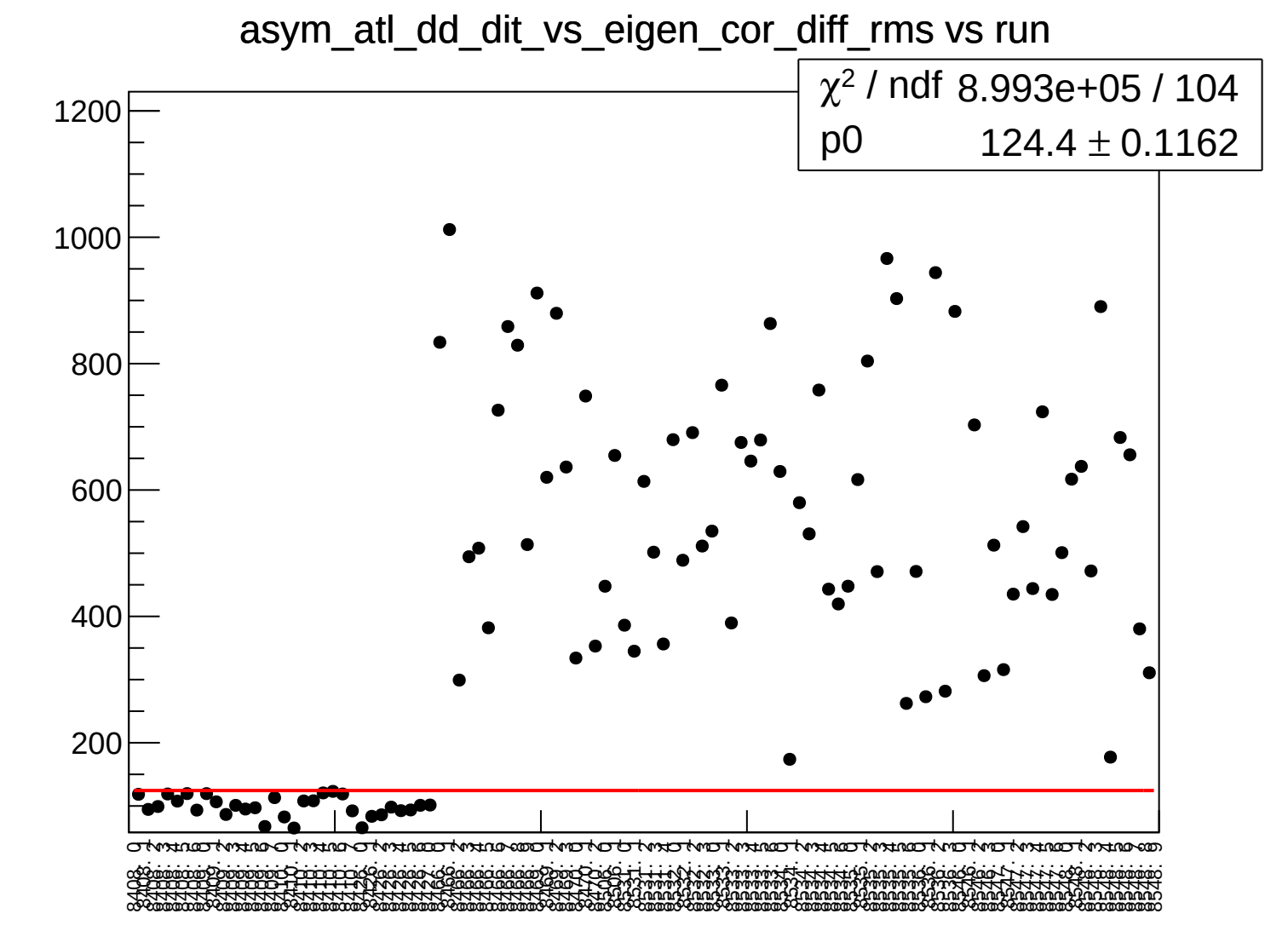

asym_atl_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 117 / 104
p0 1.016e−13 ± 3.469e−13
0.4
0.3
0.2
0.1
0
−0.1
−0.2
pull
Entries 105
Mean 118.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.06634
Std Dev 1.053
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

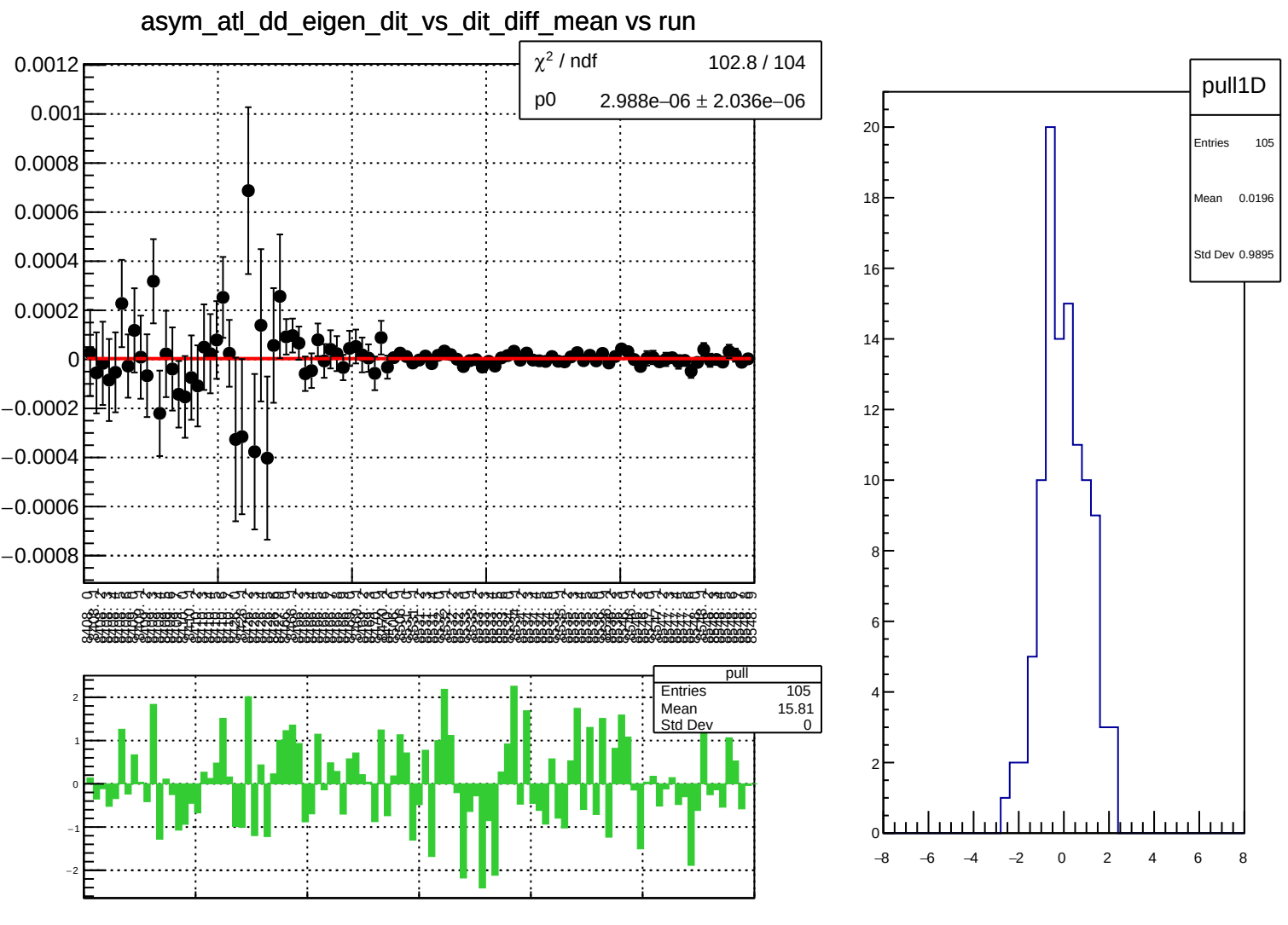

asym_atl_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.551e+06 / 104
p0 1.727e−10 ± 2.453e−13
0
2
4
6
8
10
12
14
16
18

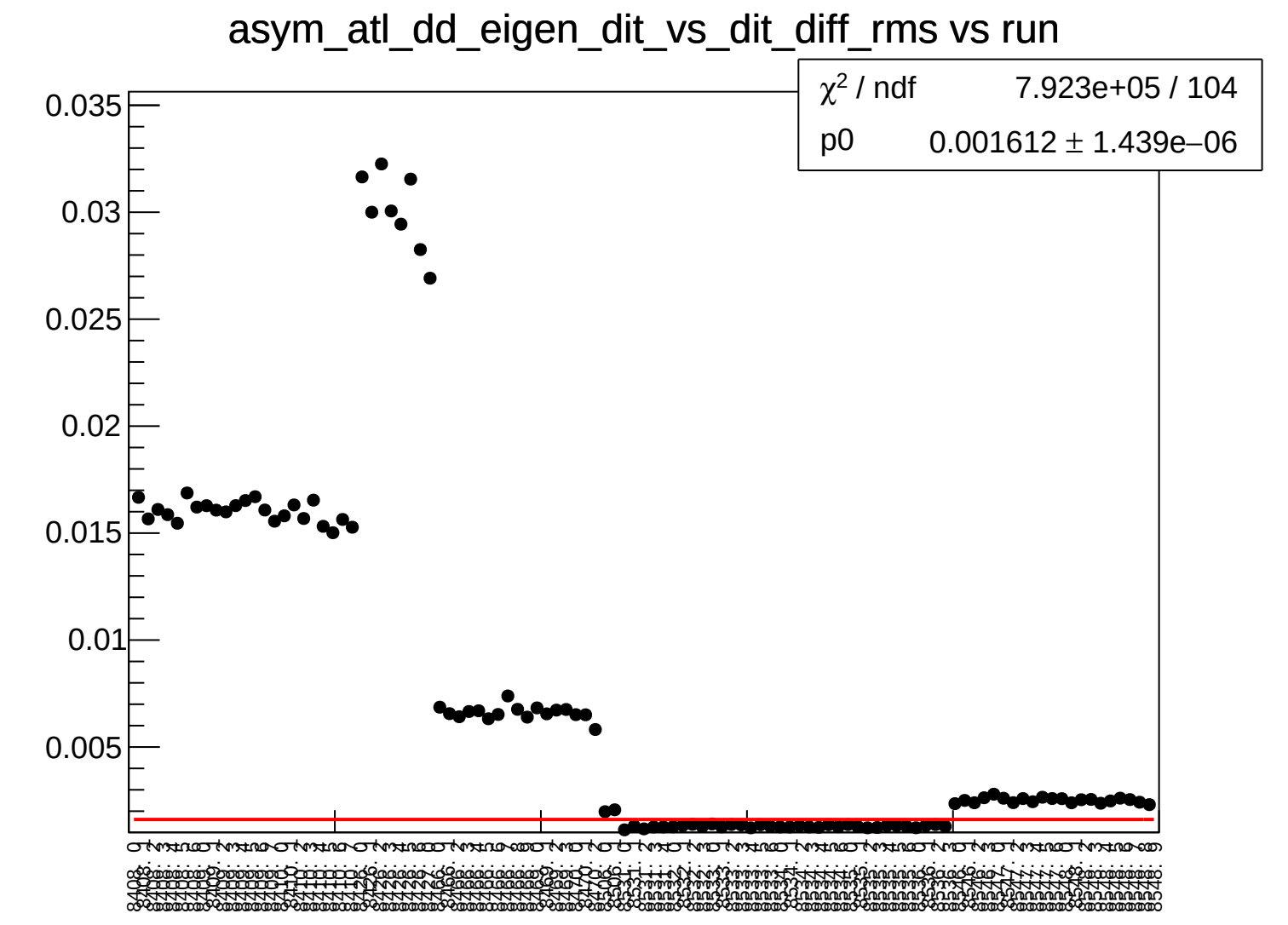

asym_atl_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 119.3 / 104
p0 0.04934 ± 0.1643
pull
Entries 105
Mean 15.32
Std Dev 0
pull1D
Entries 105
Mean 0.01285
Std Dev 1.066


asym_atl_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8.993e+05 / 104
p0 124.4 ± 0.1162
1200
1000
800
600
400
200

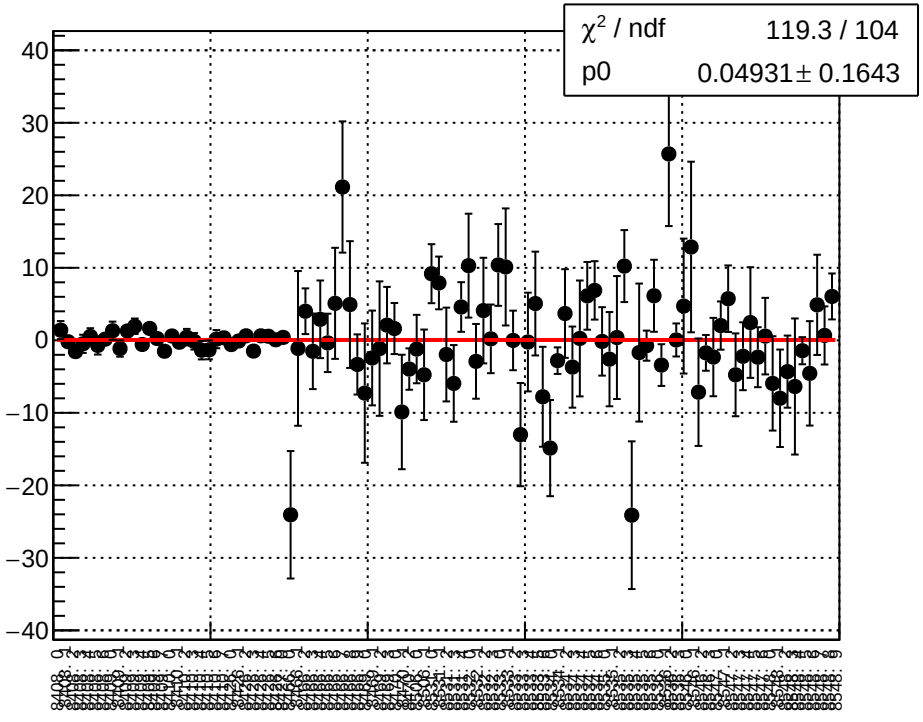

asym_atl_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 119.3 / 104
p0 0.04934 ± 0.1643
pull
Entries 105
Mean 15.32
Std Dev 0
pull1D
Entries 105
Mean 0.01285
Std Dev 1.066

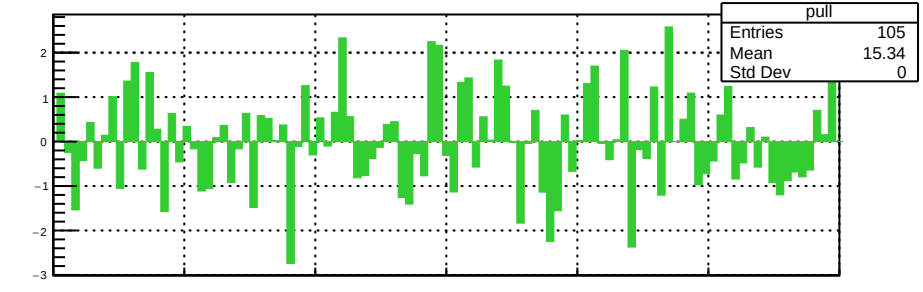

asym_atl_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.993e+05 / 104
p0 124.4 ± 0.1162
1200
1000
800
600
400
200

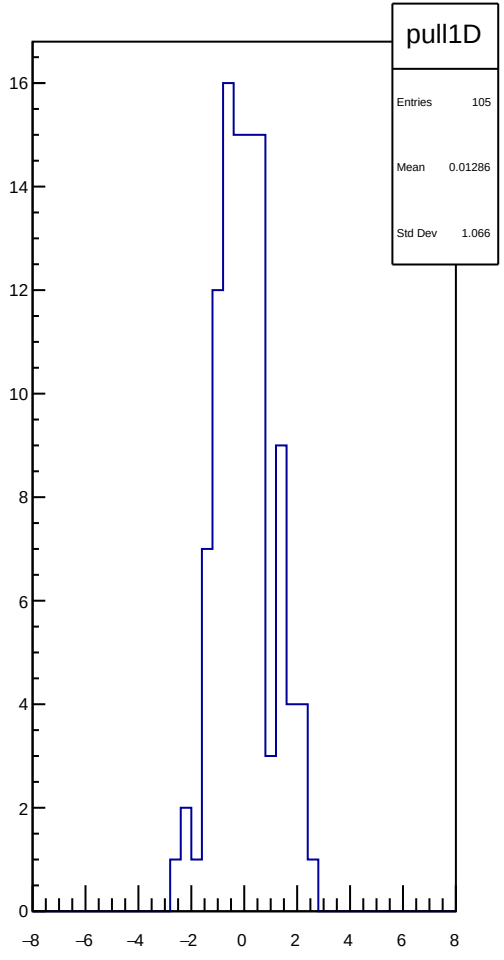

asym_atl_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 102.8 / 104
p0 2.988e−06 ± 2.036e−06
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
pull
Entries 105
Mean 15.81
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.0196
Std Dev 0.9895
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

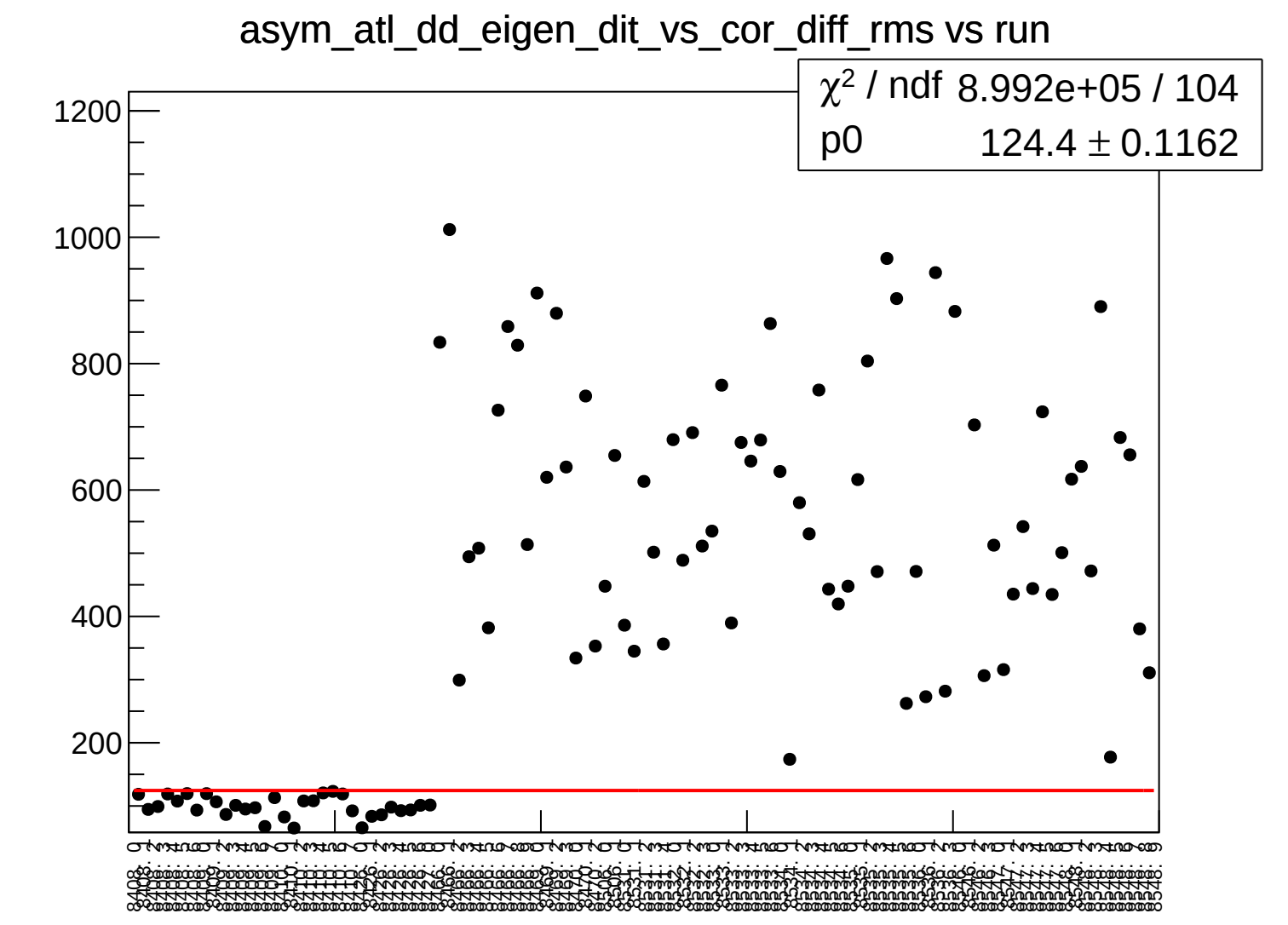

asym_atl_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.923e+05 / 104
p0 0.001612 ± 1.439e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

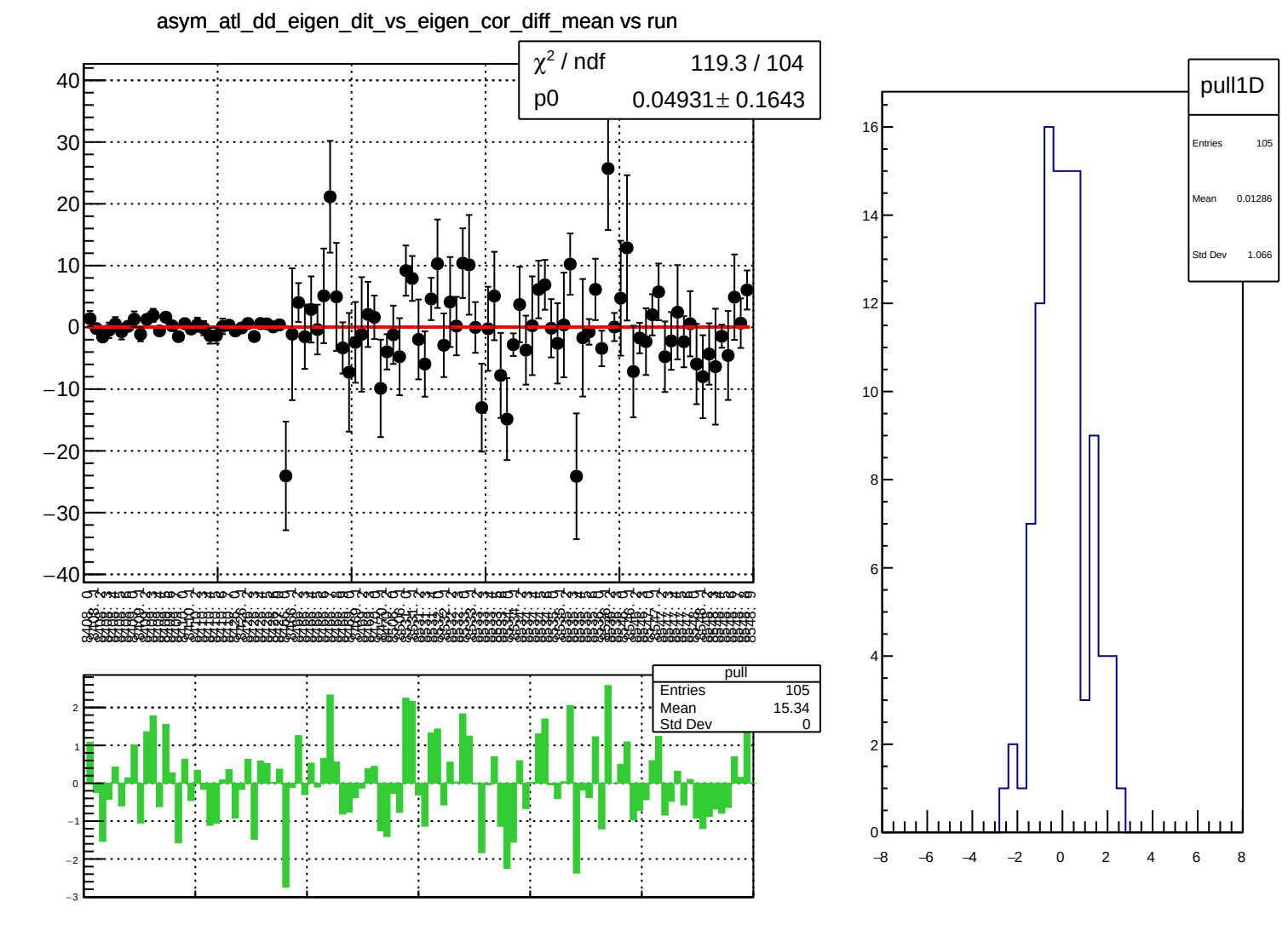
asym_atl_dd_eigen_dit_vs_cor_diff_mean vs run

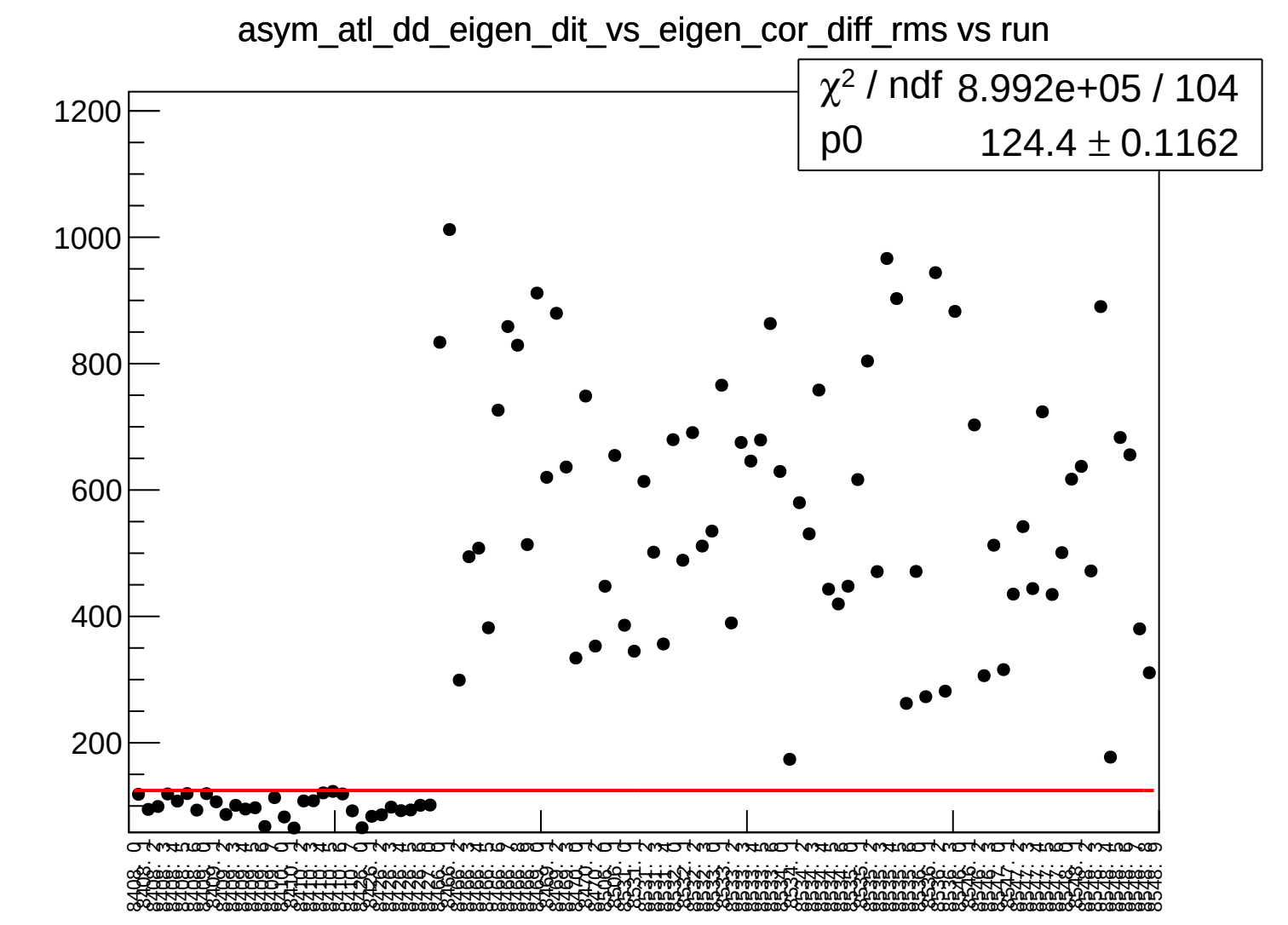


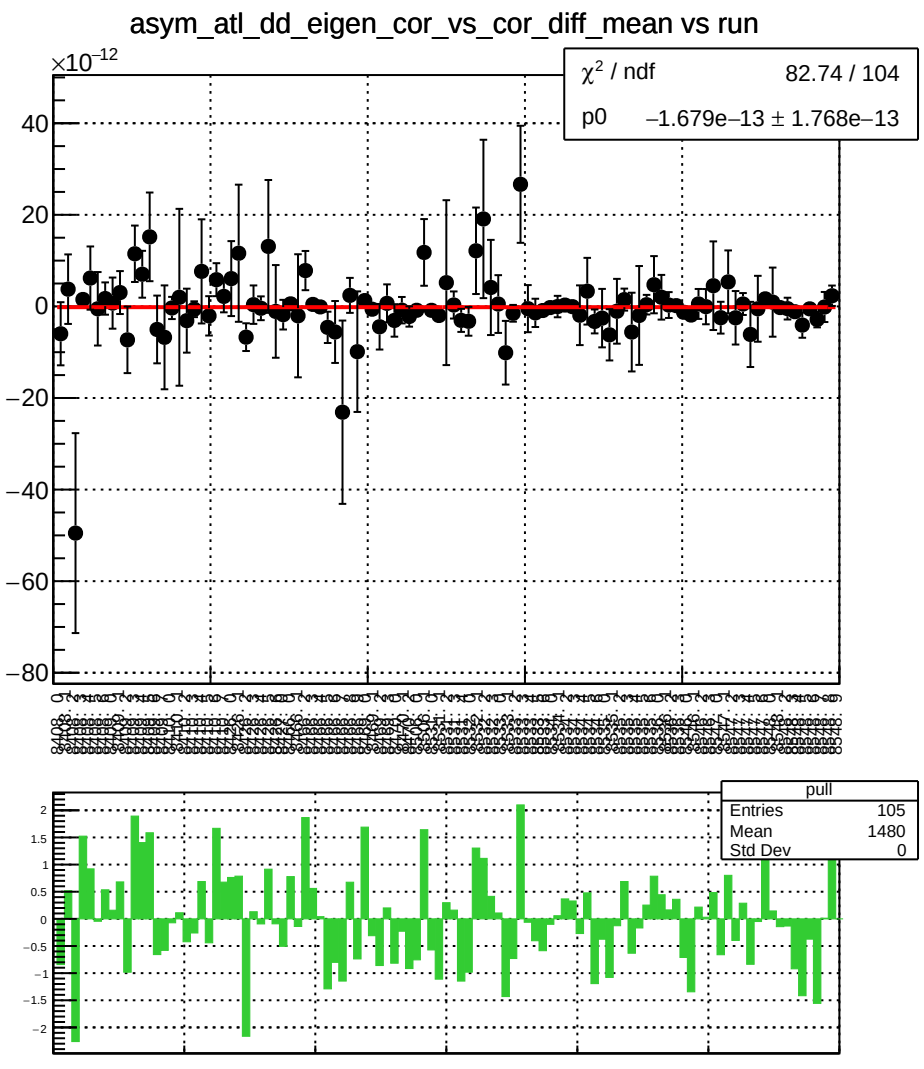


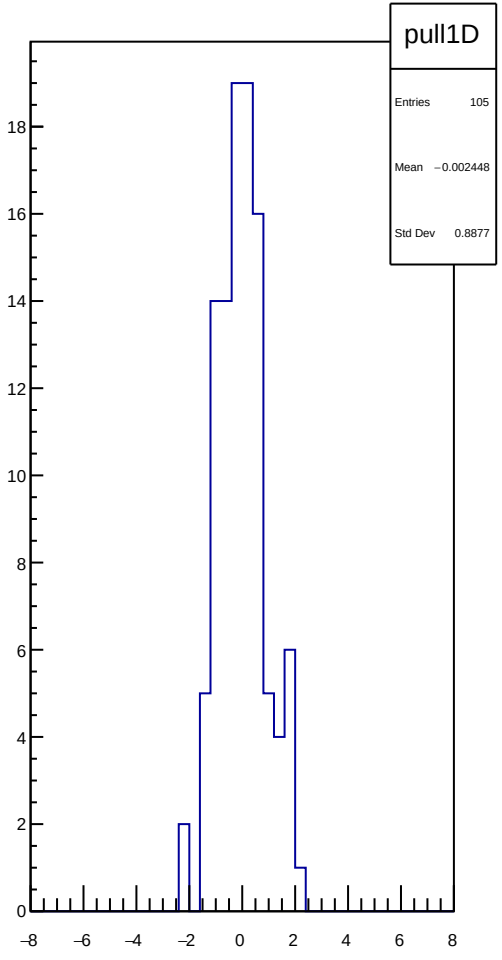


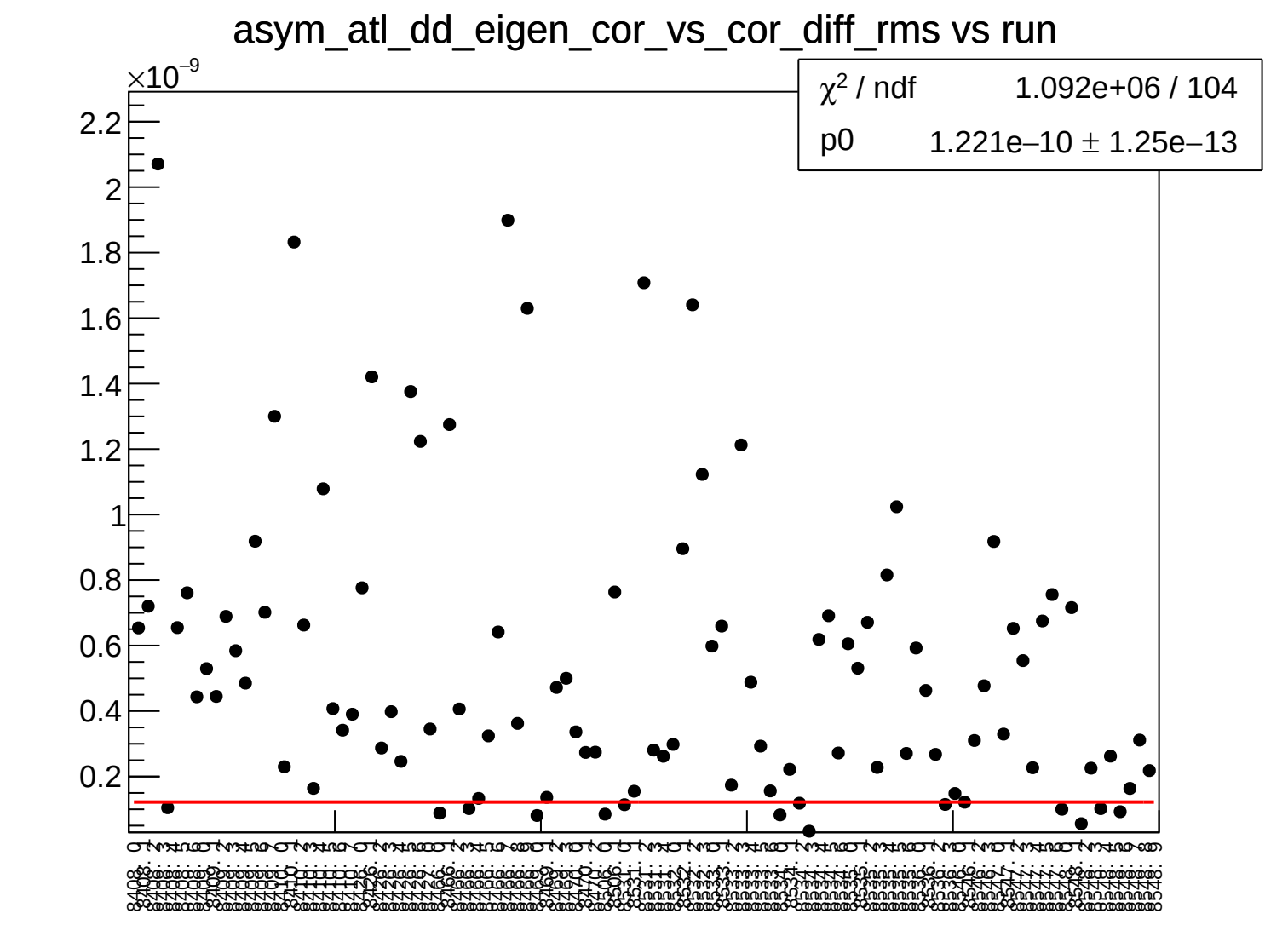

asym_atl_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.992e+05 / 104
p0 124.4 ± 0.1162
1200
1000
800
600
400
200

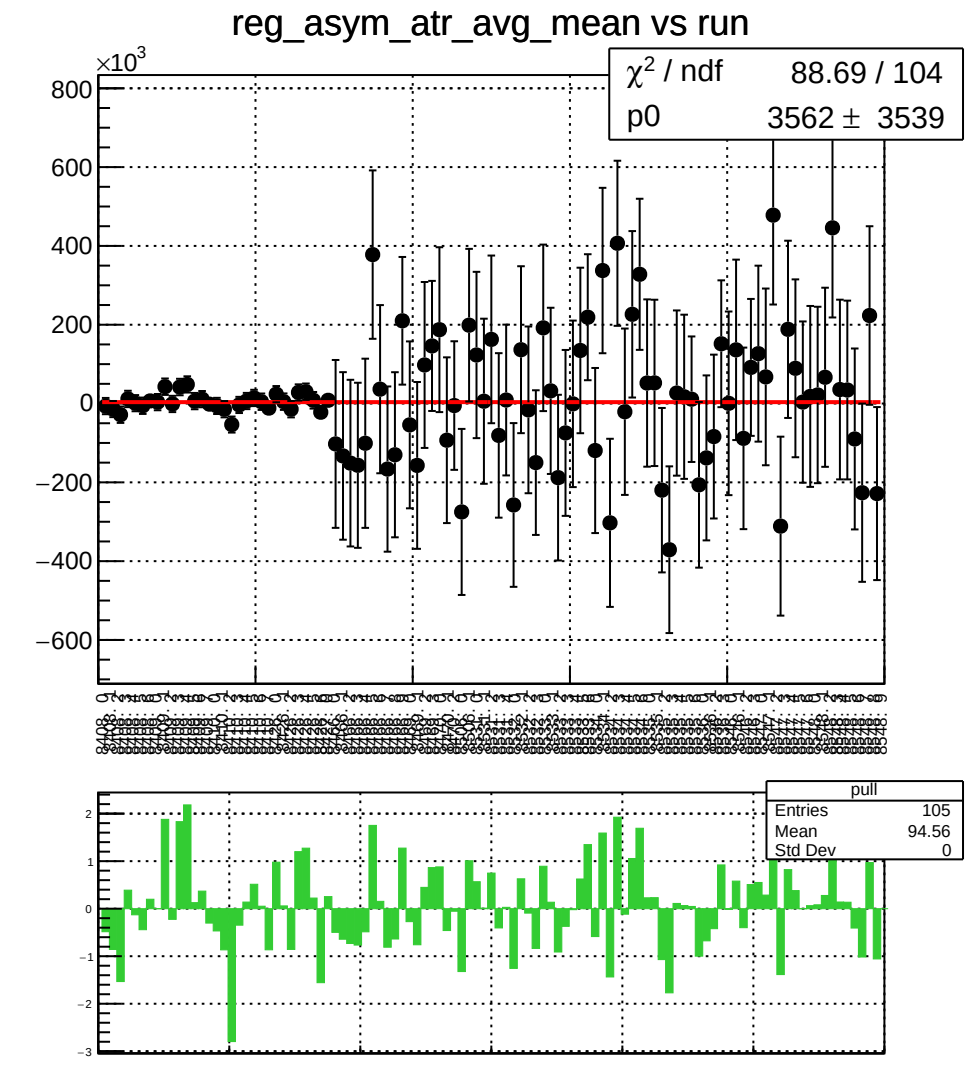

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 119.3 / 104
p0 0.04931± 0.1643
pull
Entries 105
Mean 15.34
Std Dev 0
pull1D
Entries 105
Mean 0.01286
Std Dev 1.066

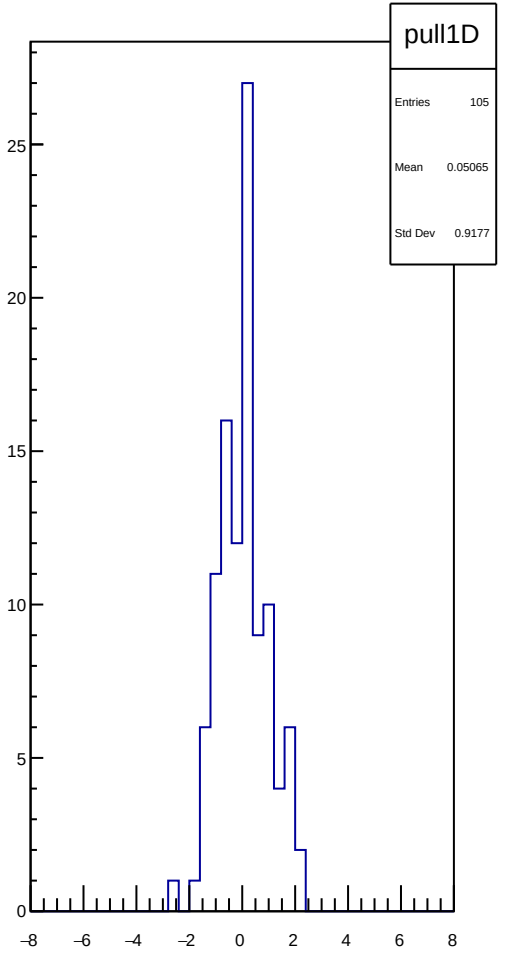

asym_atl_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.992e+05 / 104
p0 124.4 ± 0.1162
1200
1000
800
600
400
200

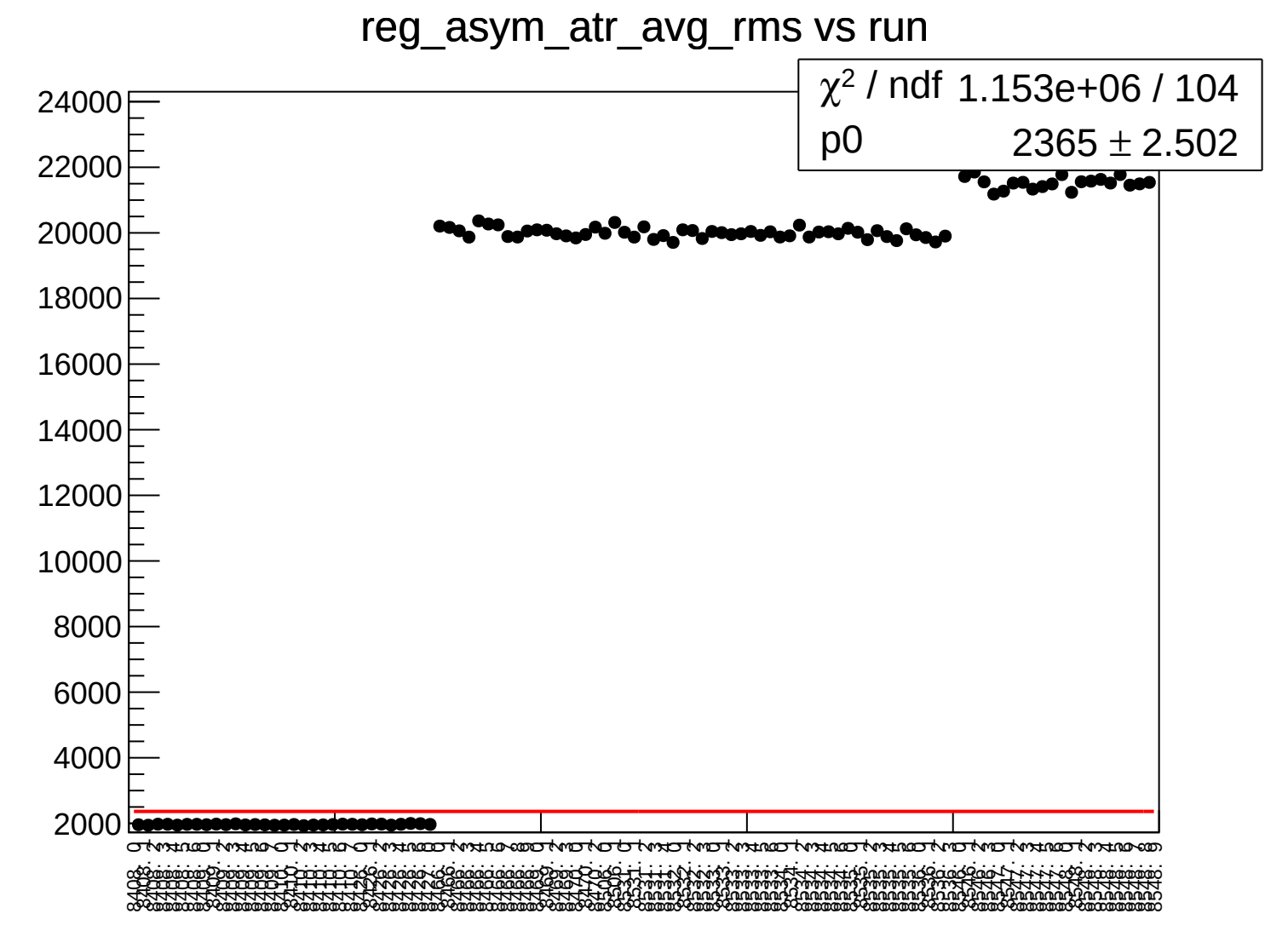

asym_atl_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 82.74 / 104
p0 −1.679e−13 ± 1.768e−13
pull
Entries 105
Mean 1480
Std Dev 0

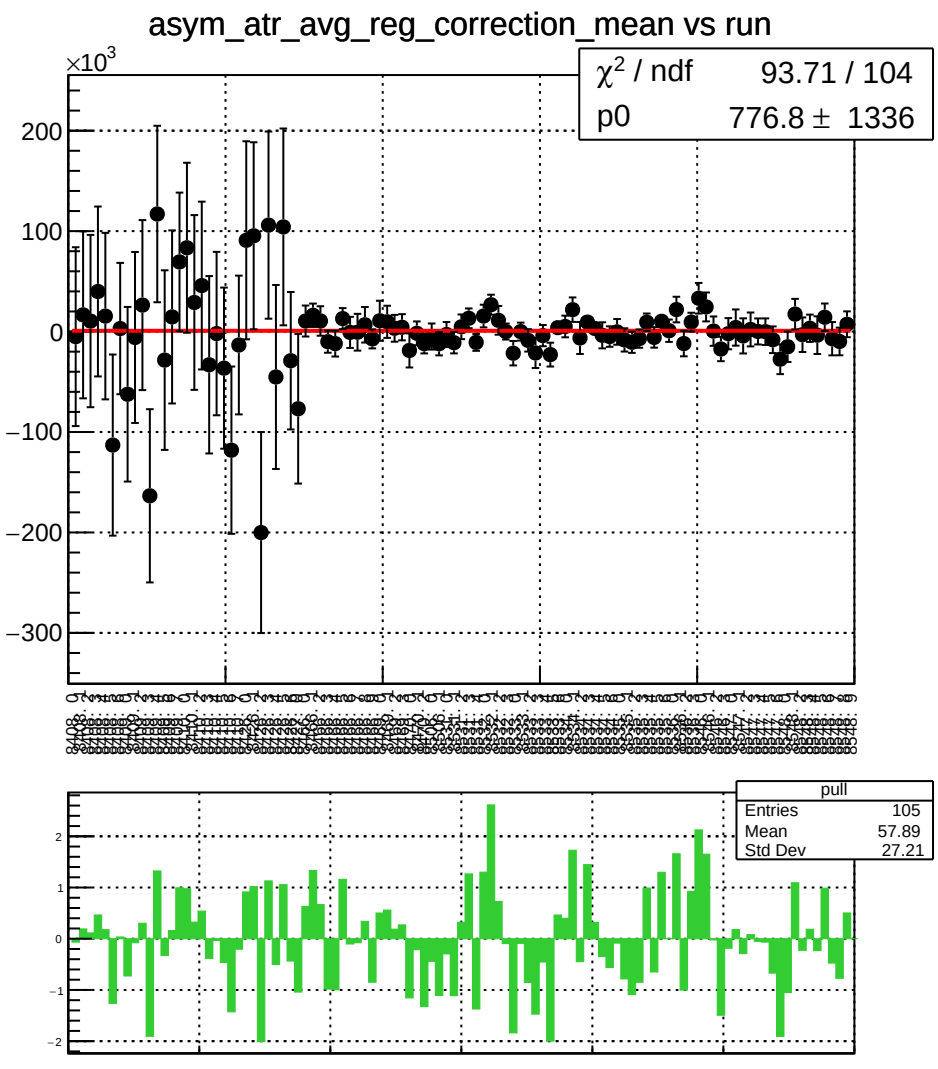

pull1D
Entries 105
Mean −0.002448
Std Dev 0.8877

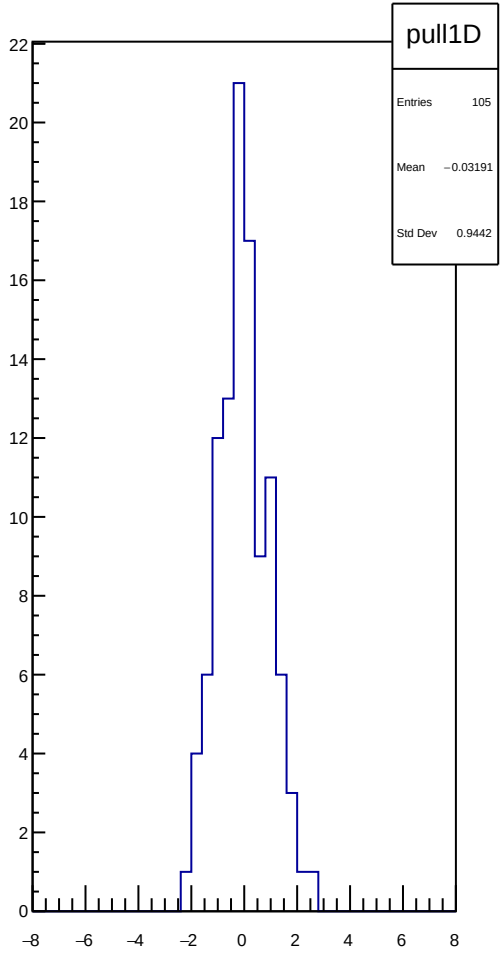

asym_atl_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.092e+06 / 104
p0 1.221e−10 ± 1.25e−13
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

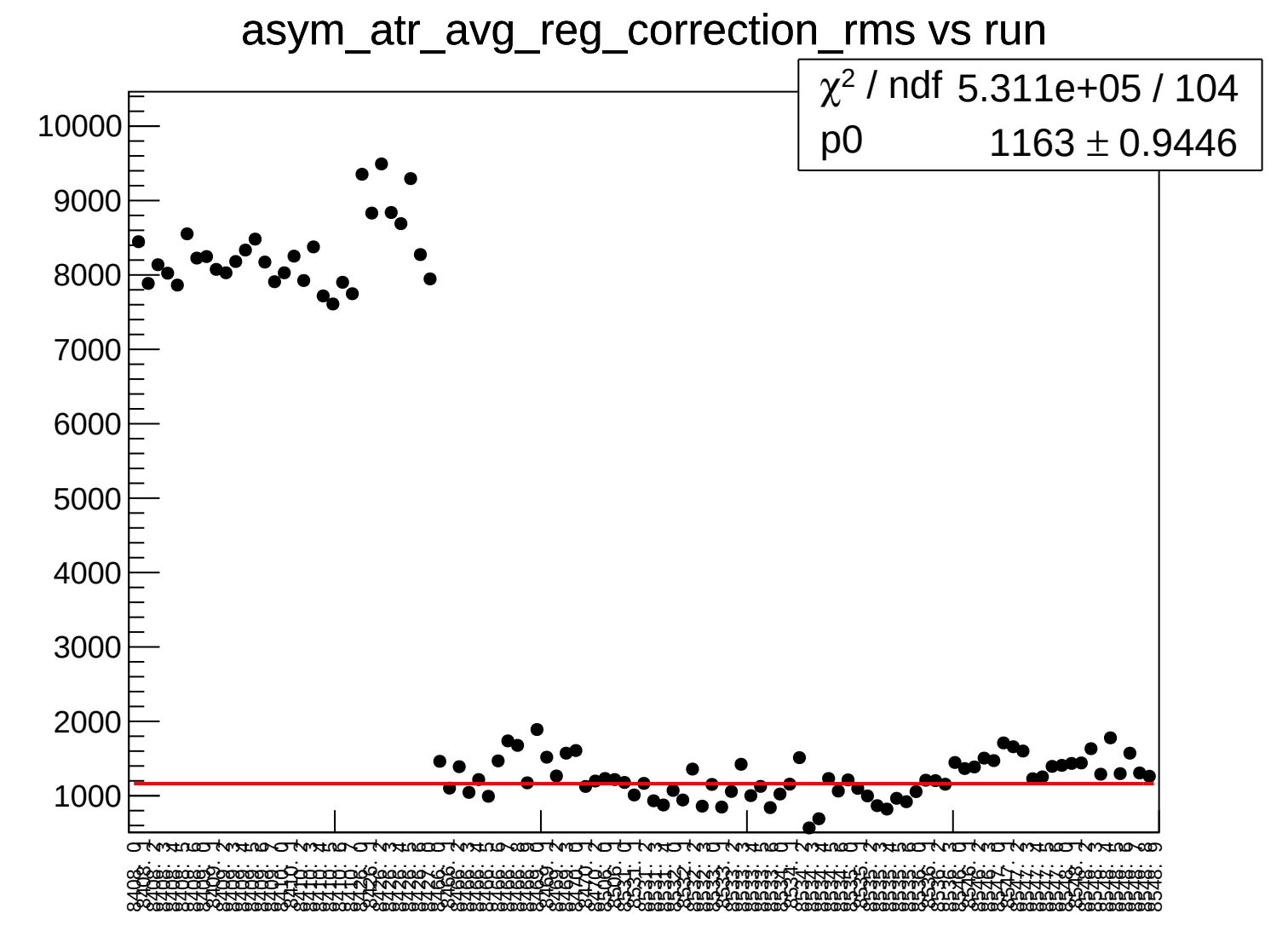

reg_asym_atr_avg_mean vs run
×10^3
χ^2 / ndf 88.69 / 104
p0 3562 ± 3539
pull
Entries 105
Mean 94.56
Std Dev 0

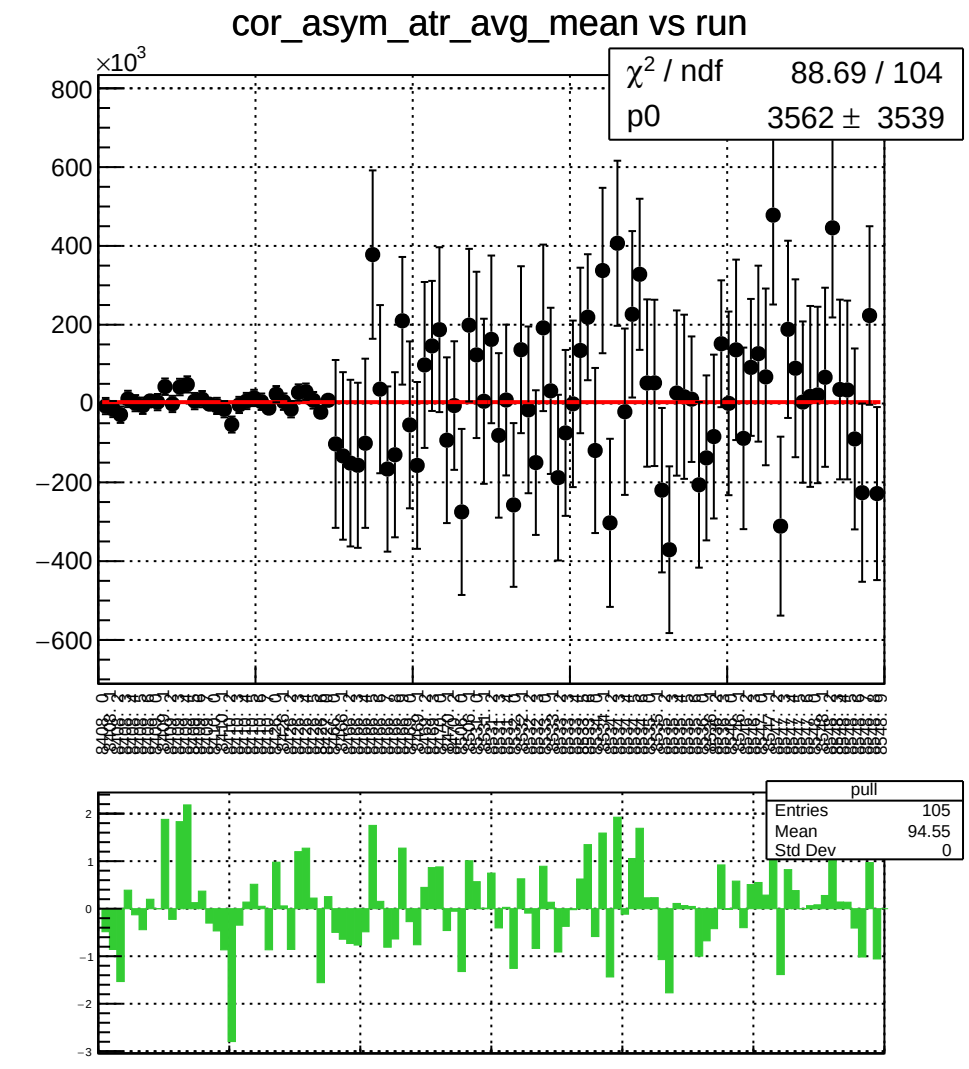

pull1D
Entries 105
Mean 0.05065
Std Dev 0.9177

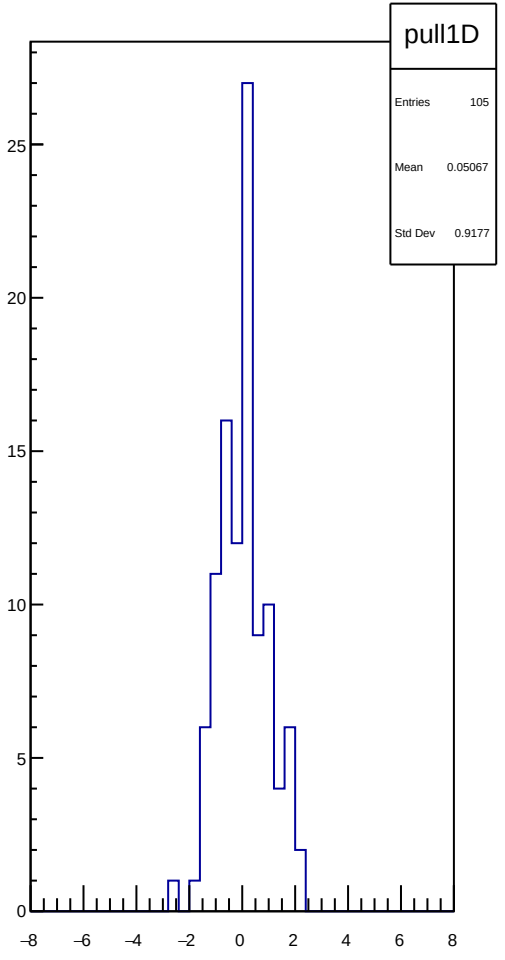

reg_asym_atr_avg_rms vs run
χ^2 / ndf 1.153e+06 / 104
p0 2365 ± 2.502
24000
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000

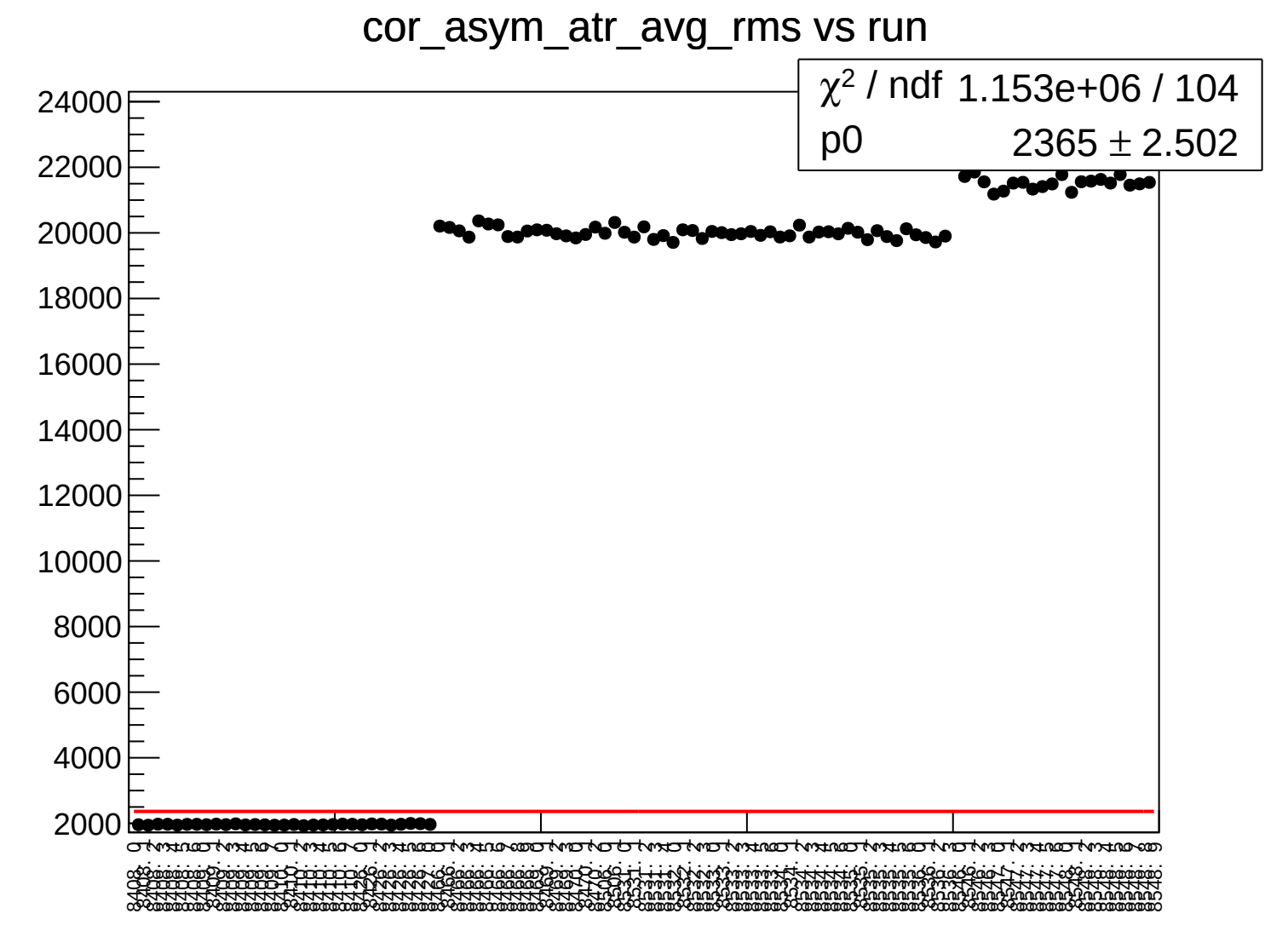

asym_atr_avg_reg_correction_mean vs run
χ² / ndf 93.71 / 104
p0 776.8 ± 1336
×10³
200
100
0
−100
−200
−300
pull
Entries 105
Mean 57.89
Std Dev 27.21
2
1
0
−1
−2

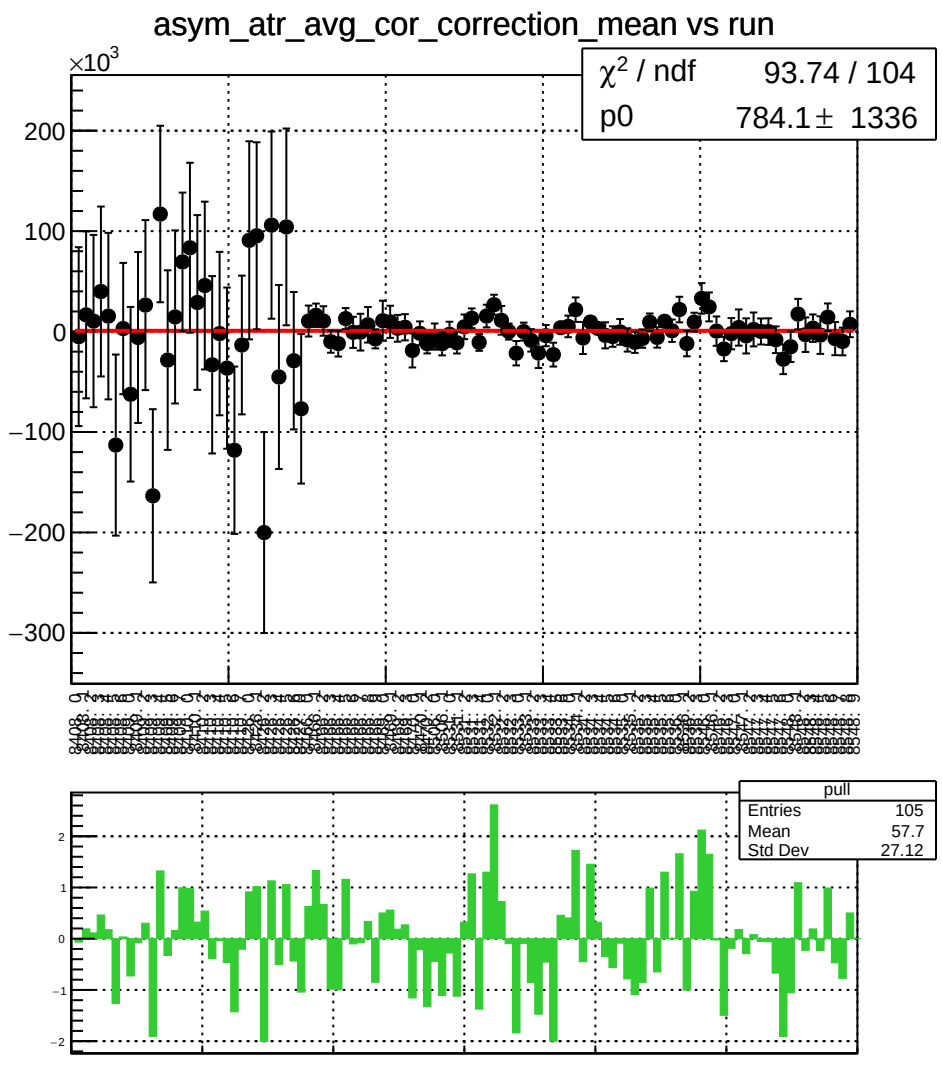

pull1D
Entries 105
Mean −0.03191
Std Dev 0.9442
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

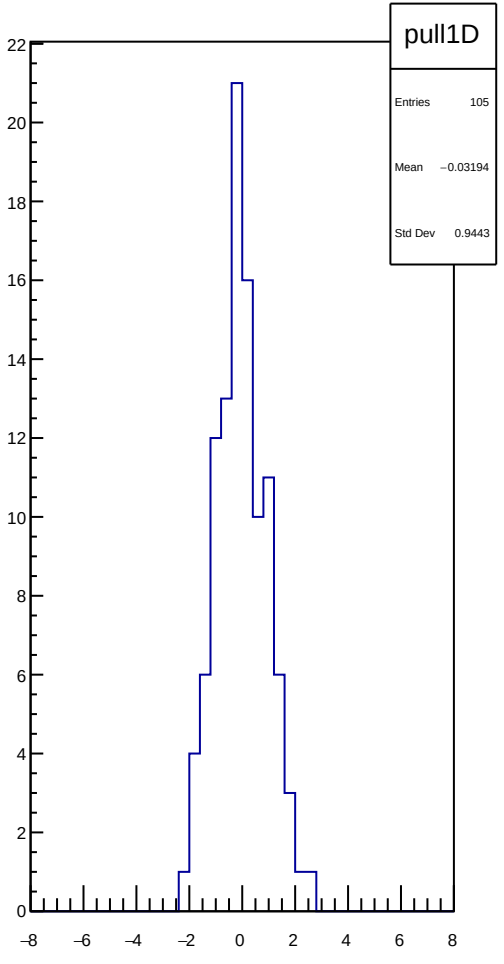

asym_atr_avg_reg_correction_rms vs run
χ^2 / ndf 5.311e+05 / 104
p0 1163 ± 0.9446
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000

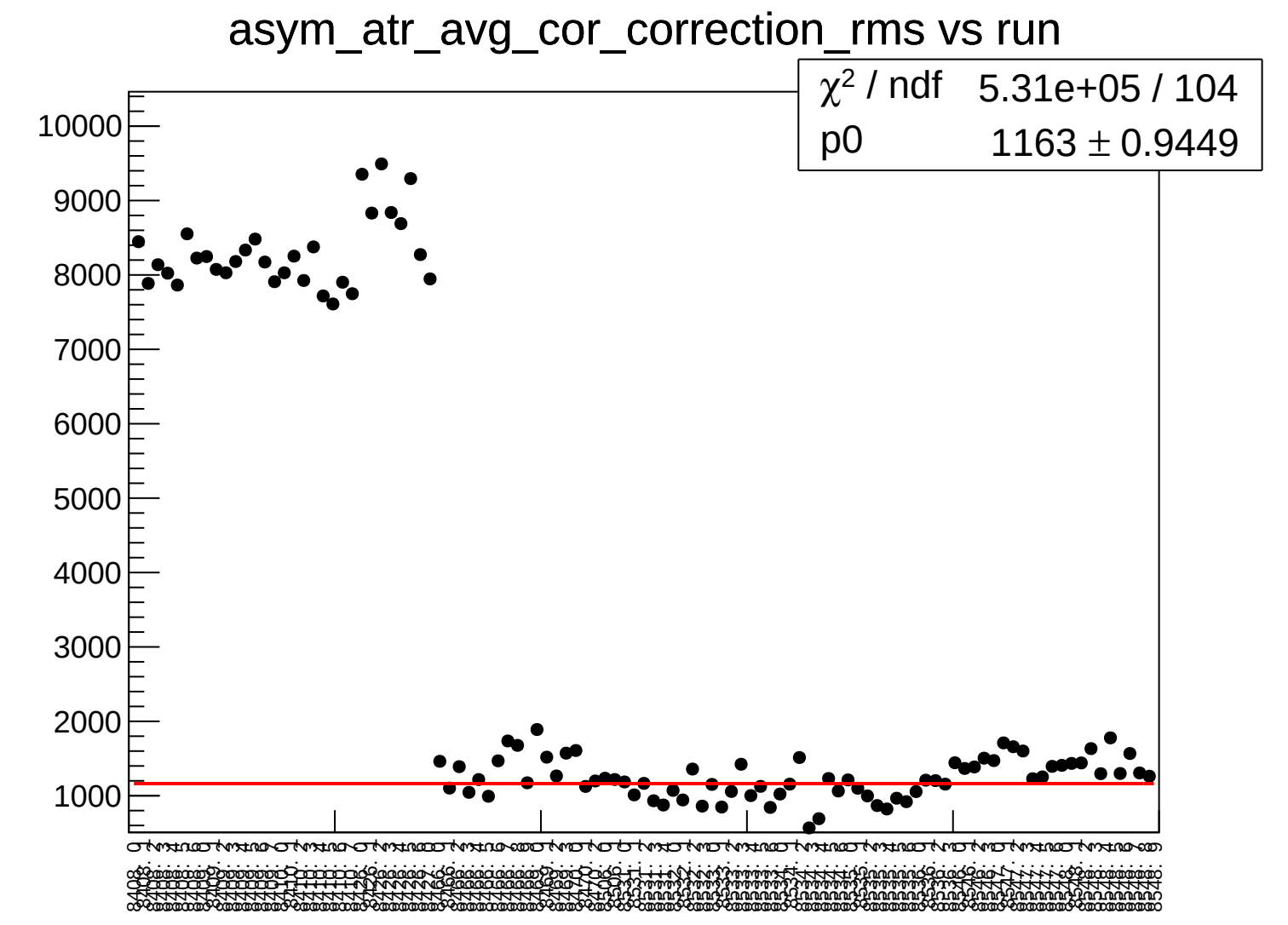

cor_asym_atr_avg_mean vs run
×10^3
χ^2 / ndf 88.69 / 104
p0 3562 ± 3539
800
600
400
200
0
−200
−400
−600
pull
Entries 105
Mean 94.55
Std Dev 0
2
1
0
−1
−2
−3

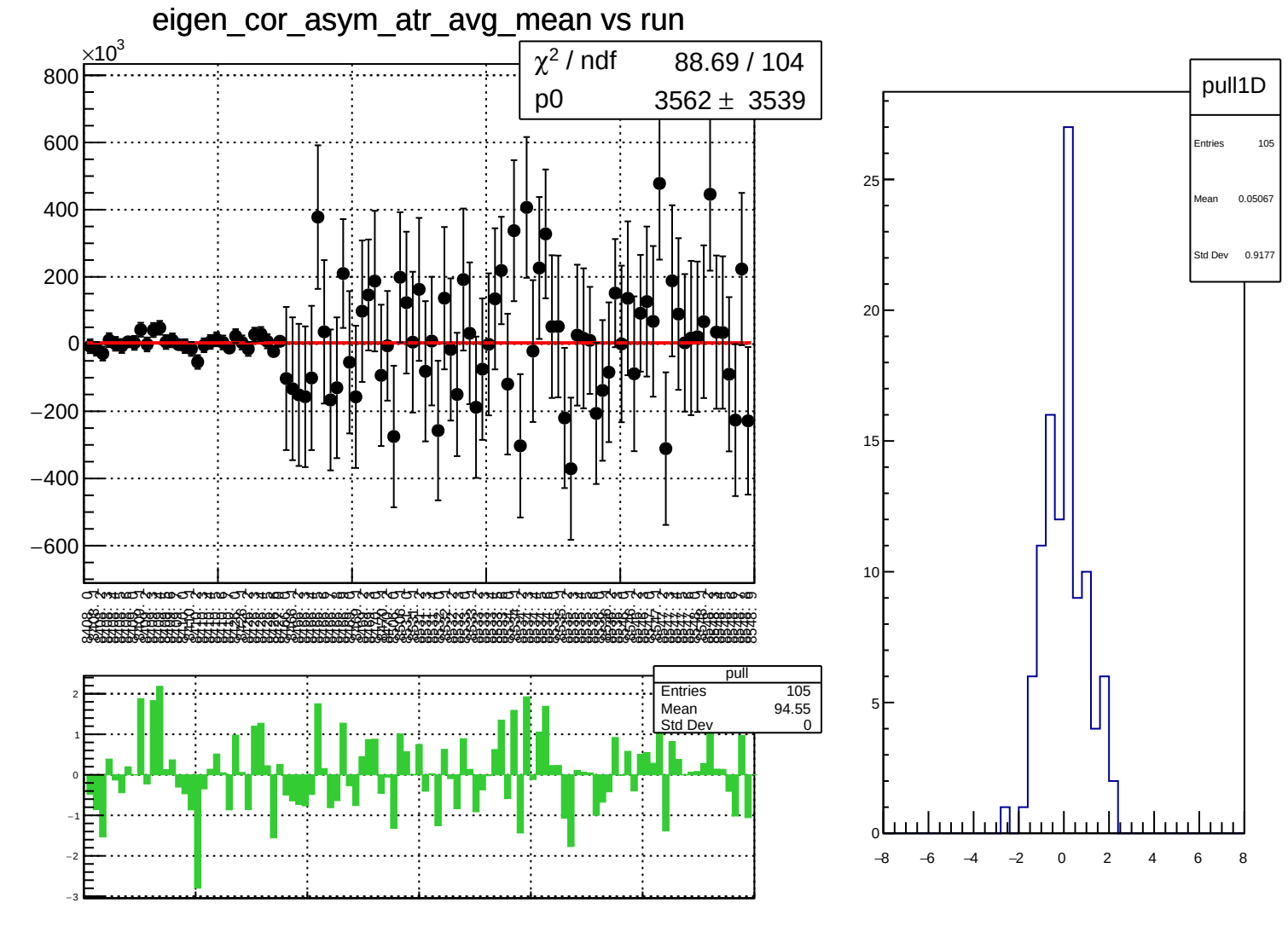

pull1D
Entries 105
Mean 0.05067
Std Dev 0.9177
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

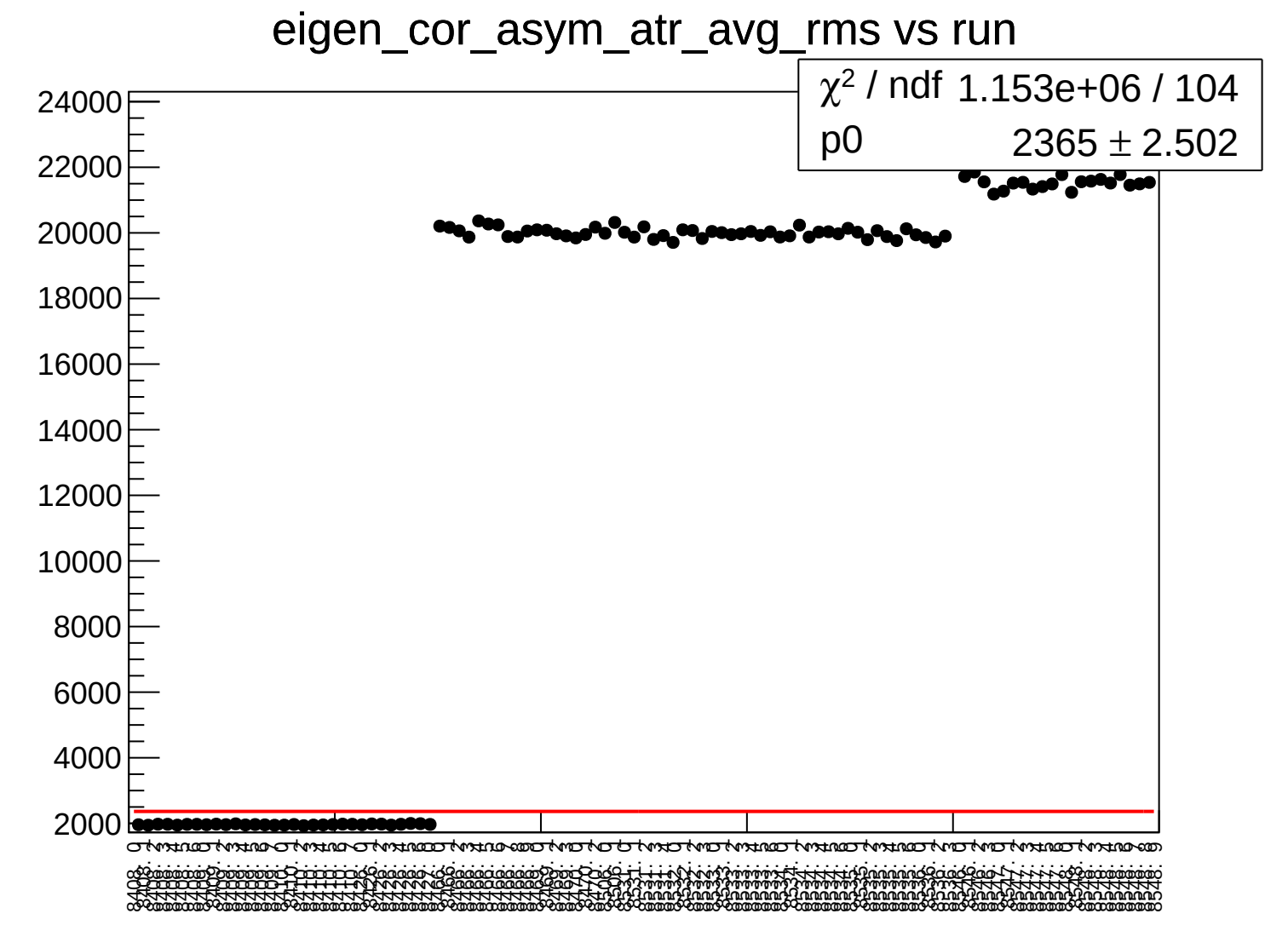

cor_asym_atr_avg_rms vs run
χ² / ndf 1.153e+06 / 104
p0 2365 ± 2.502
24000
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000

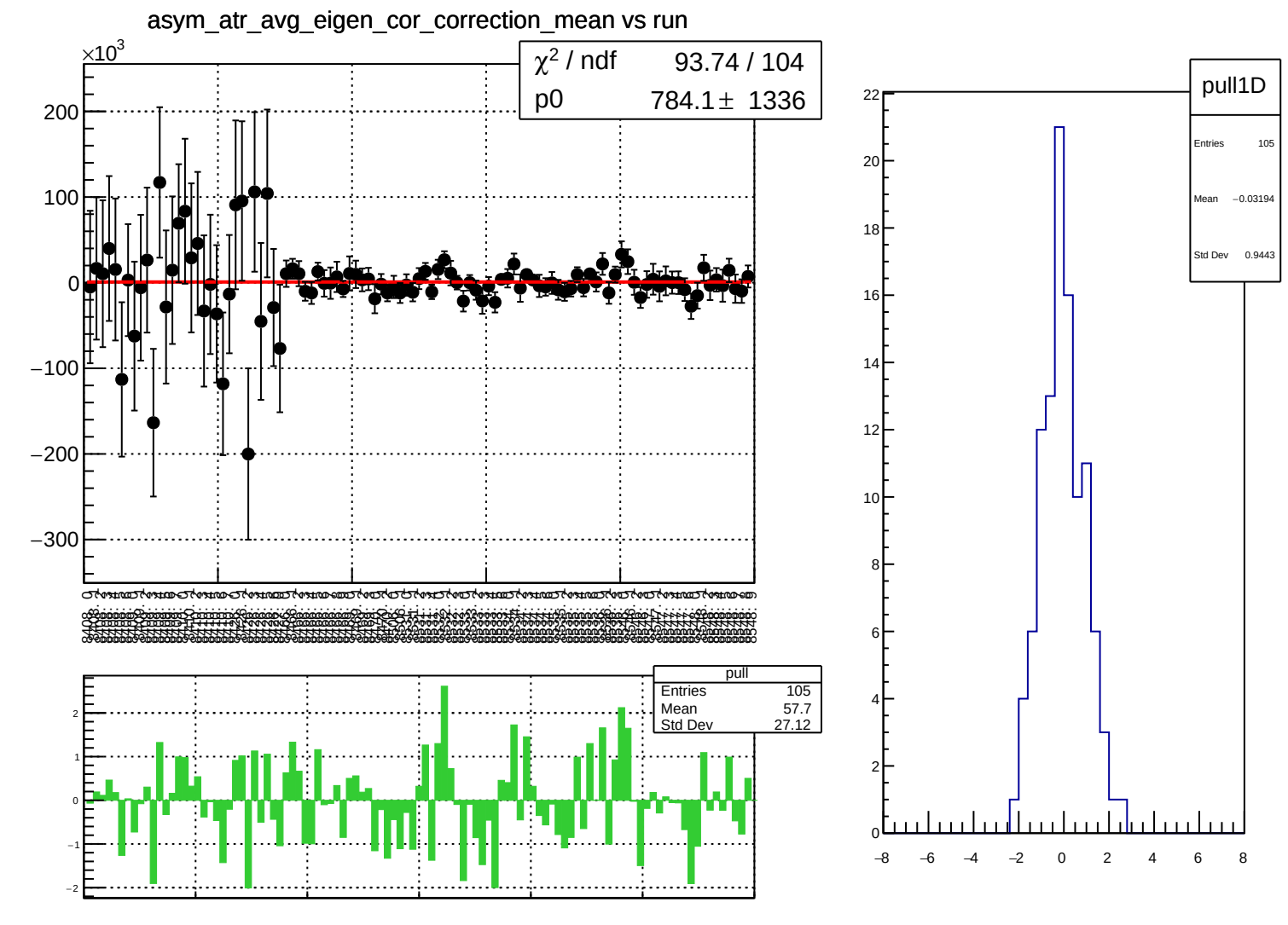

asym_atr_avg_cor_correction_mean vs run
χ² / ndf 93.74 / 104
p0 784.1 ± 1336
×10³
200
100
0
−100
−200
−300
pull
Entries 105
Mean 57.7
Std Dev 27.12
2
1
0
−1
−2

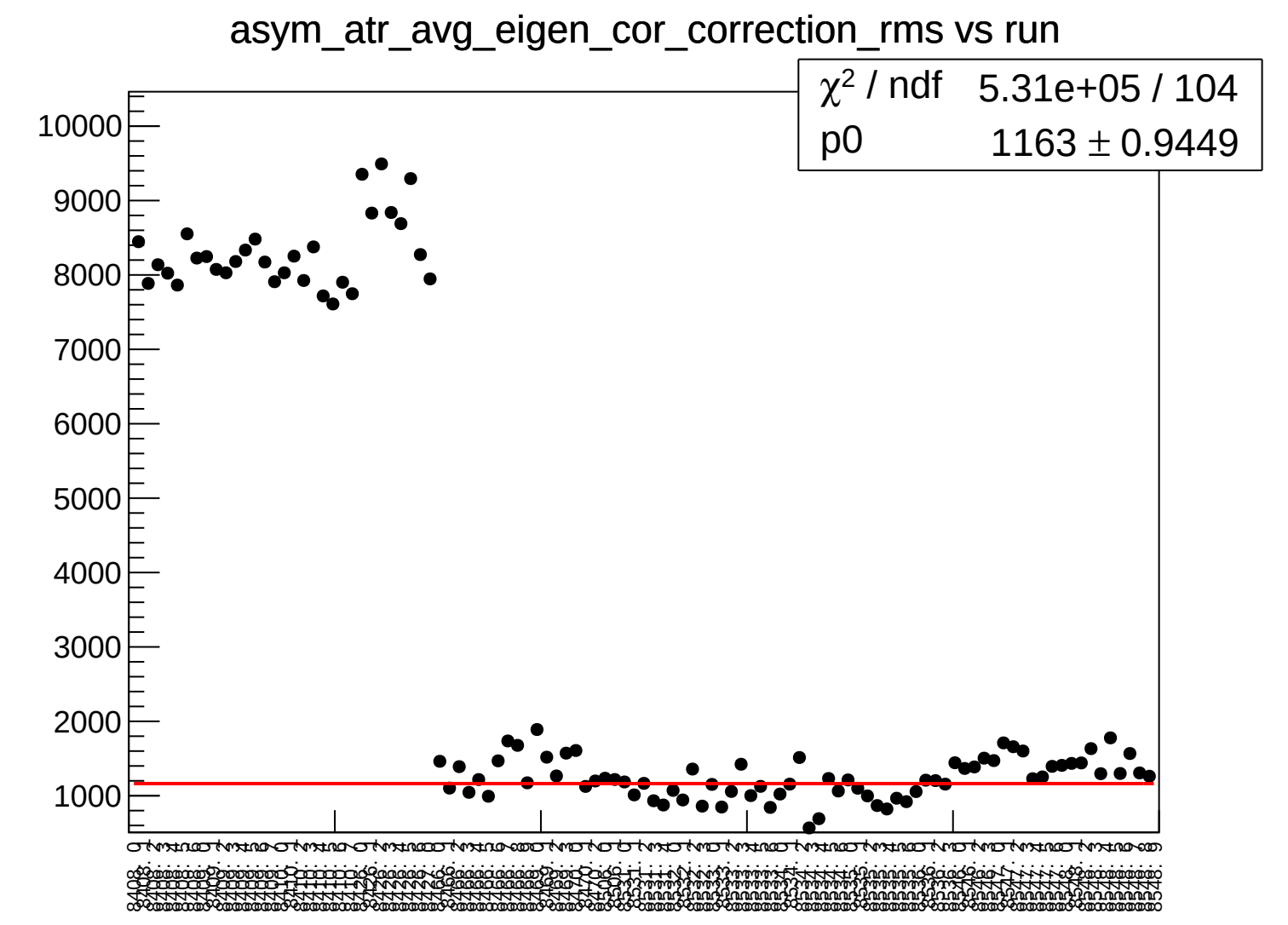

pull1D
Entries 105
Mean −0.03194
Std Dev 0.9443
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

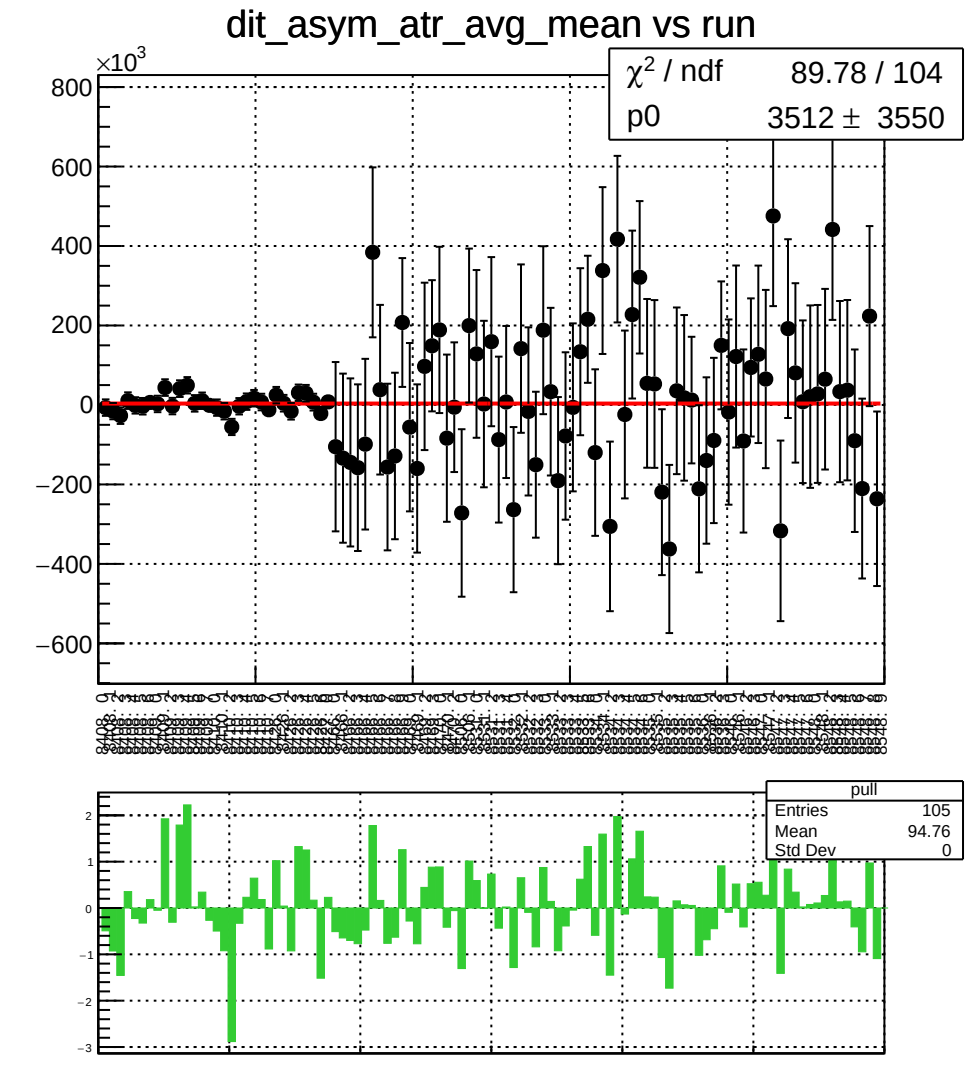

asym_atr_avg_cor_correction_rms vs run
χ² / ndf 5.31e+05 / 104
p0 1163 ± 0.9449
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000

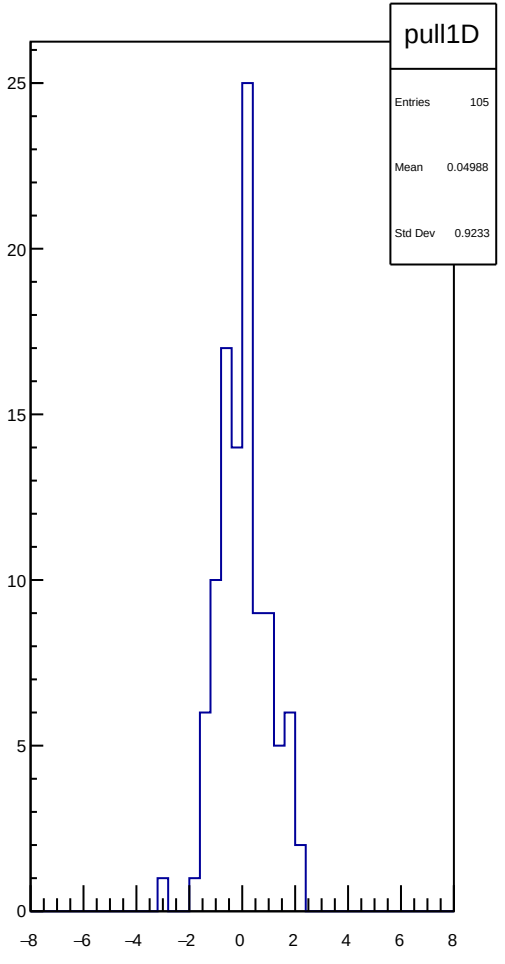

eigen_cor_asym_atr_avg_mean vs run
×10^3
χ^2 / ndf 88.69 / 104
p0 3562 ± 3539
800
600
400
200
0
−200
−400
−600
pull
Entries 105
Mean 94.55
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 105
Mean 0.05067
Std Dev 0.9177
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

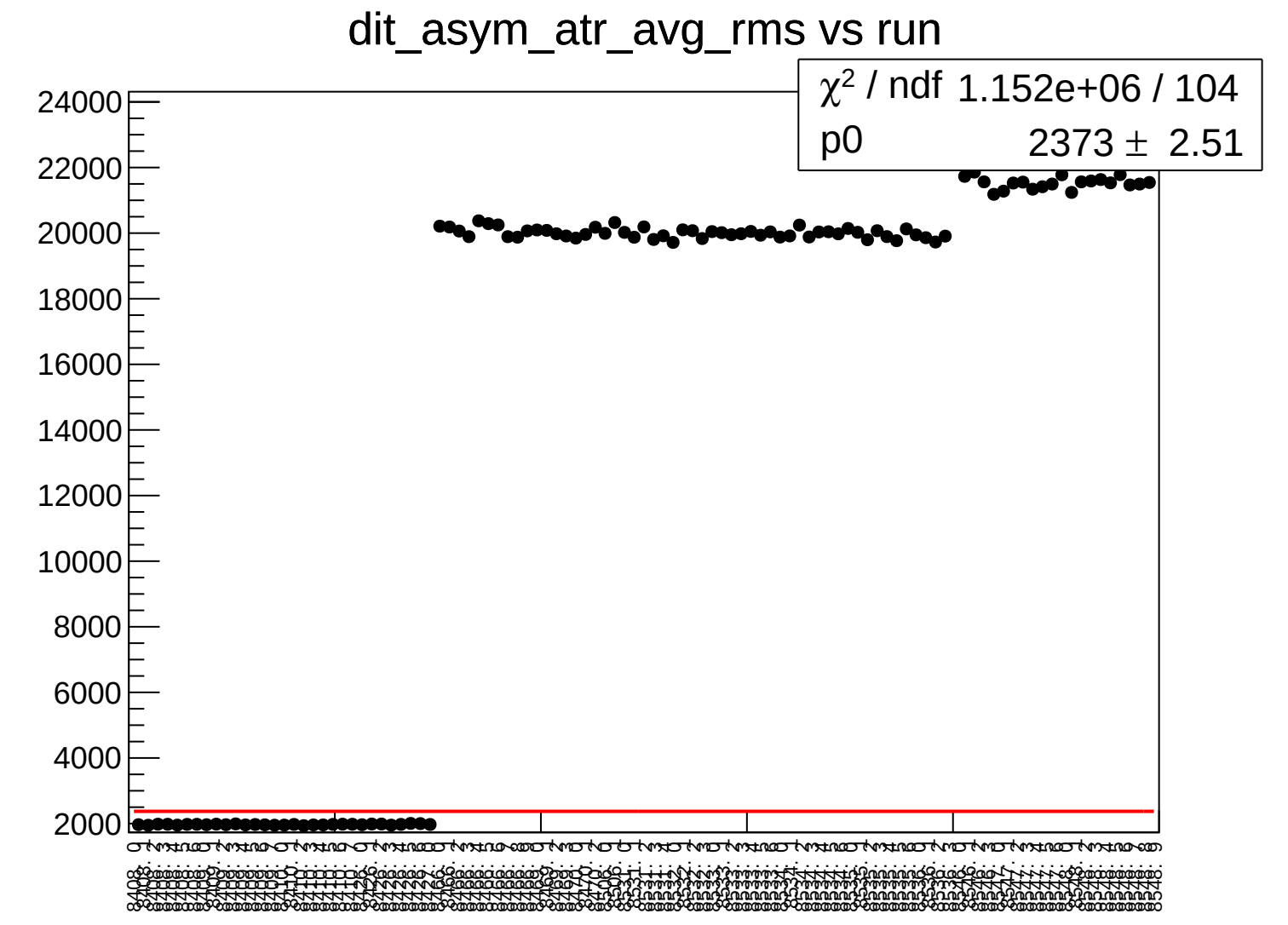

eigen_cor_asym_atr_avg_rms vs run
χ^2 / ndf 1.153e+06 / 104
p0 2365 ± 2.502
24000
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000

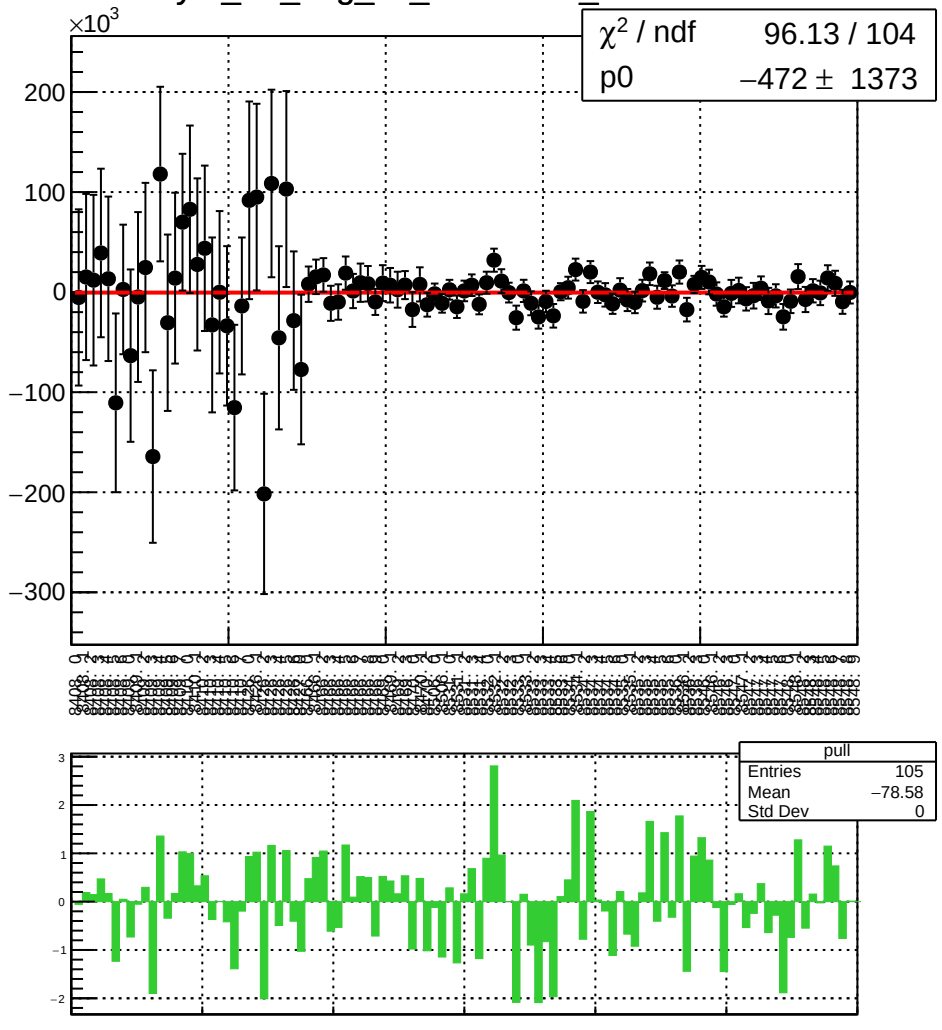

asym_atr_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 93.74 / 104
p0 784.1 ± 1336
200
100
0
−100
−200
−300
pull
Entries 105
Mean 57.7
Std Dev 27.12
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.03194
Std Dev 0.9443
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

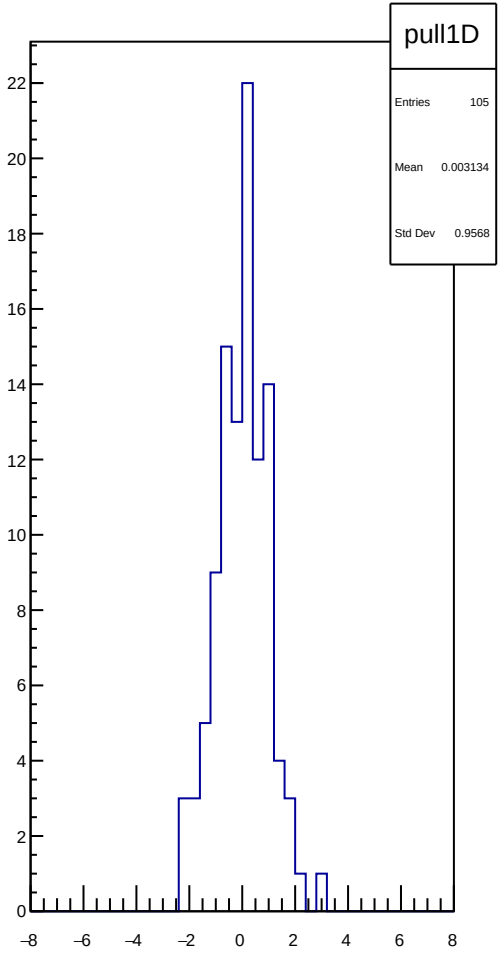

asym_atr_avg_eigen_cor_correction_rms vs run
χ² / ndf 5.31e+05 / 104
p0 1163 ± 0.9449
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000

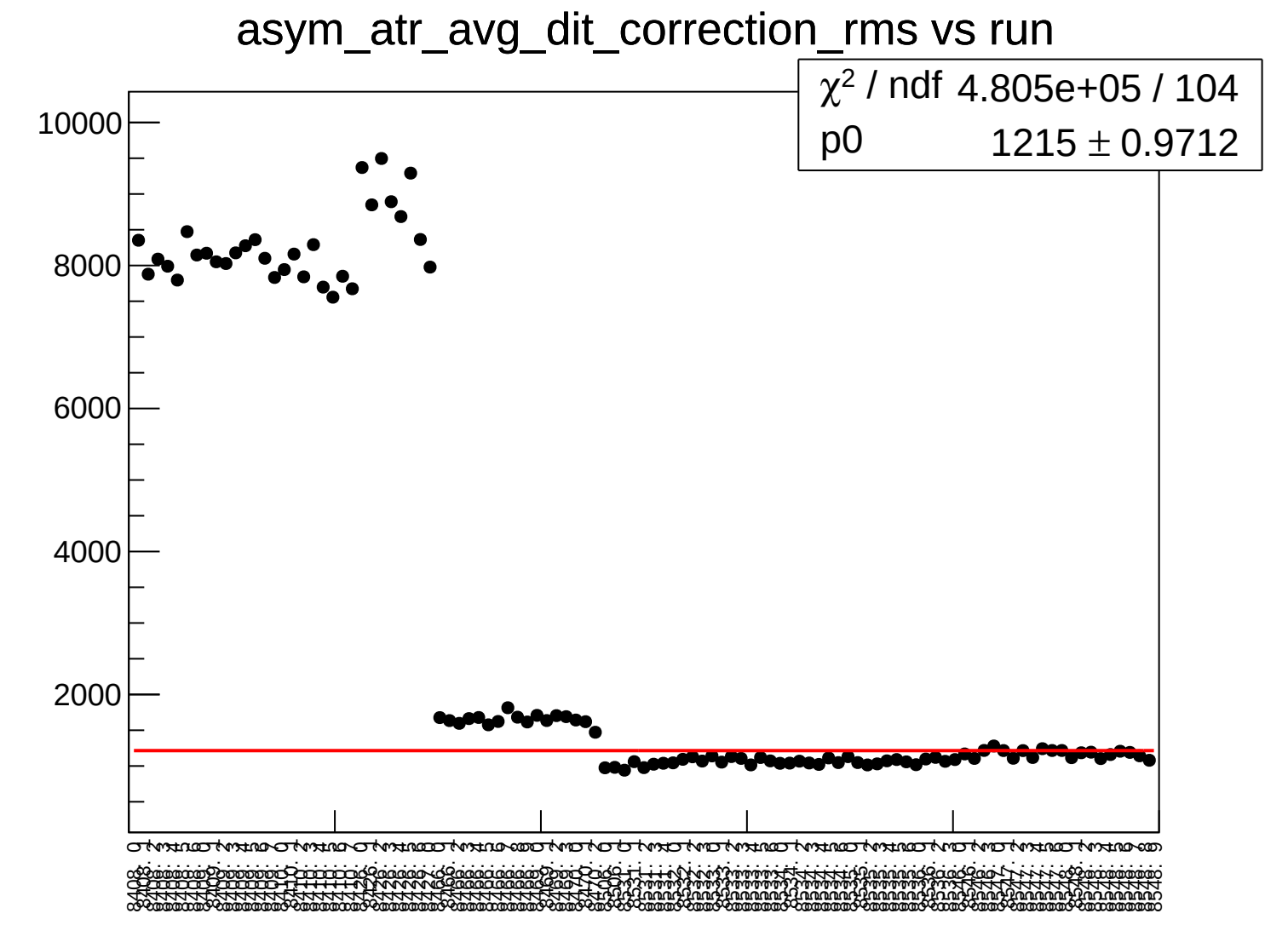

dit_asym_atr_avg_mean vs run
×10^3
800
600
400
200
0
−200
−400
−600
χ^2 / ndf 89.78 / 104
p0 3512 ± 3550
pull
Entries 105
Mean 94.76
Std Dev 0
2
1
0
−1
−2
−3

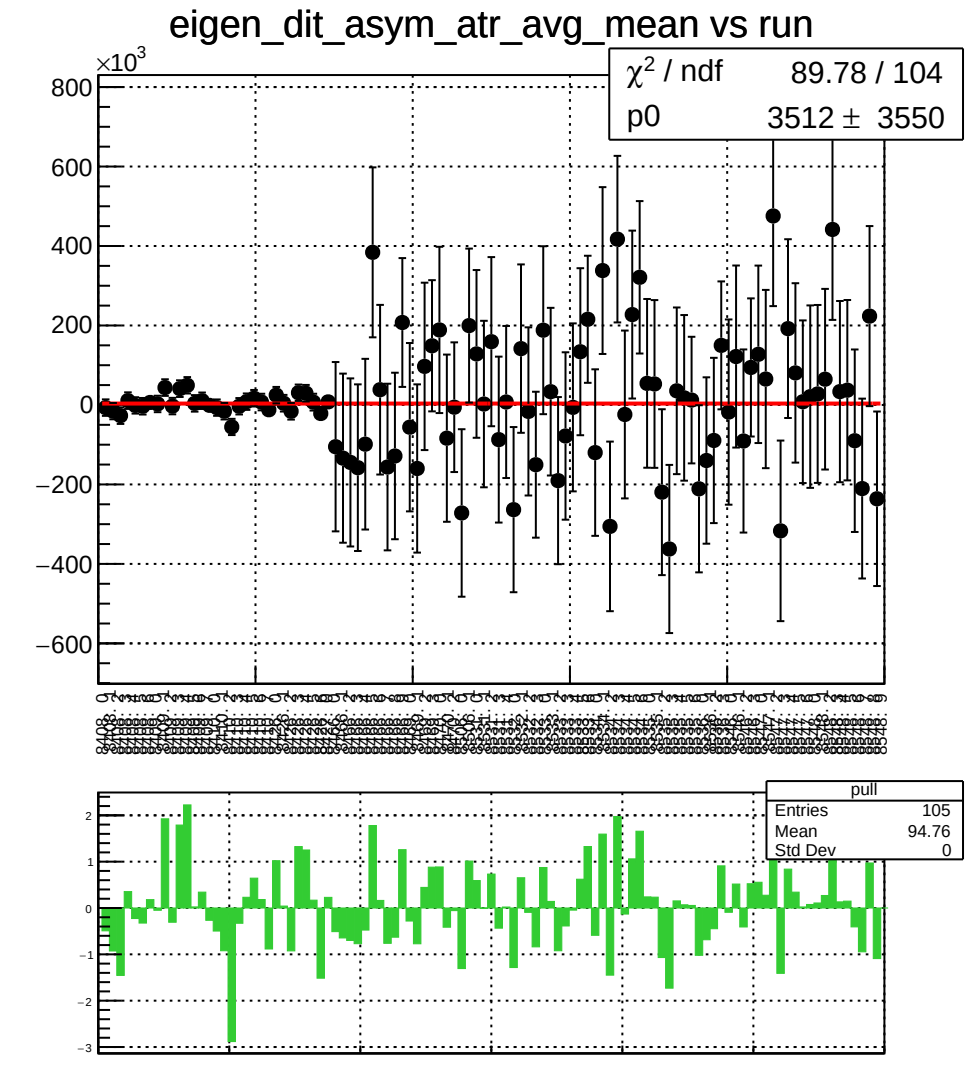

pull1D
Entries 105
Mean 0.04988
Std Dev 0.9233
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

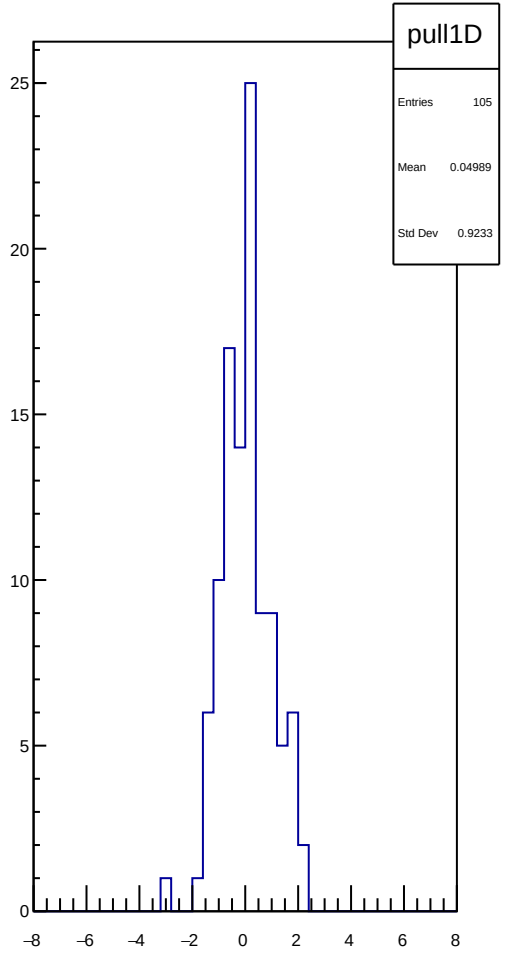

dit_asym_atr_avg_rms vs run
χ² / ndf 1.152e+06 / 104
p0 2373 ± 2.51
24000
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000

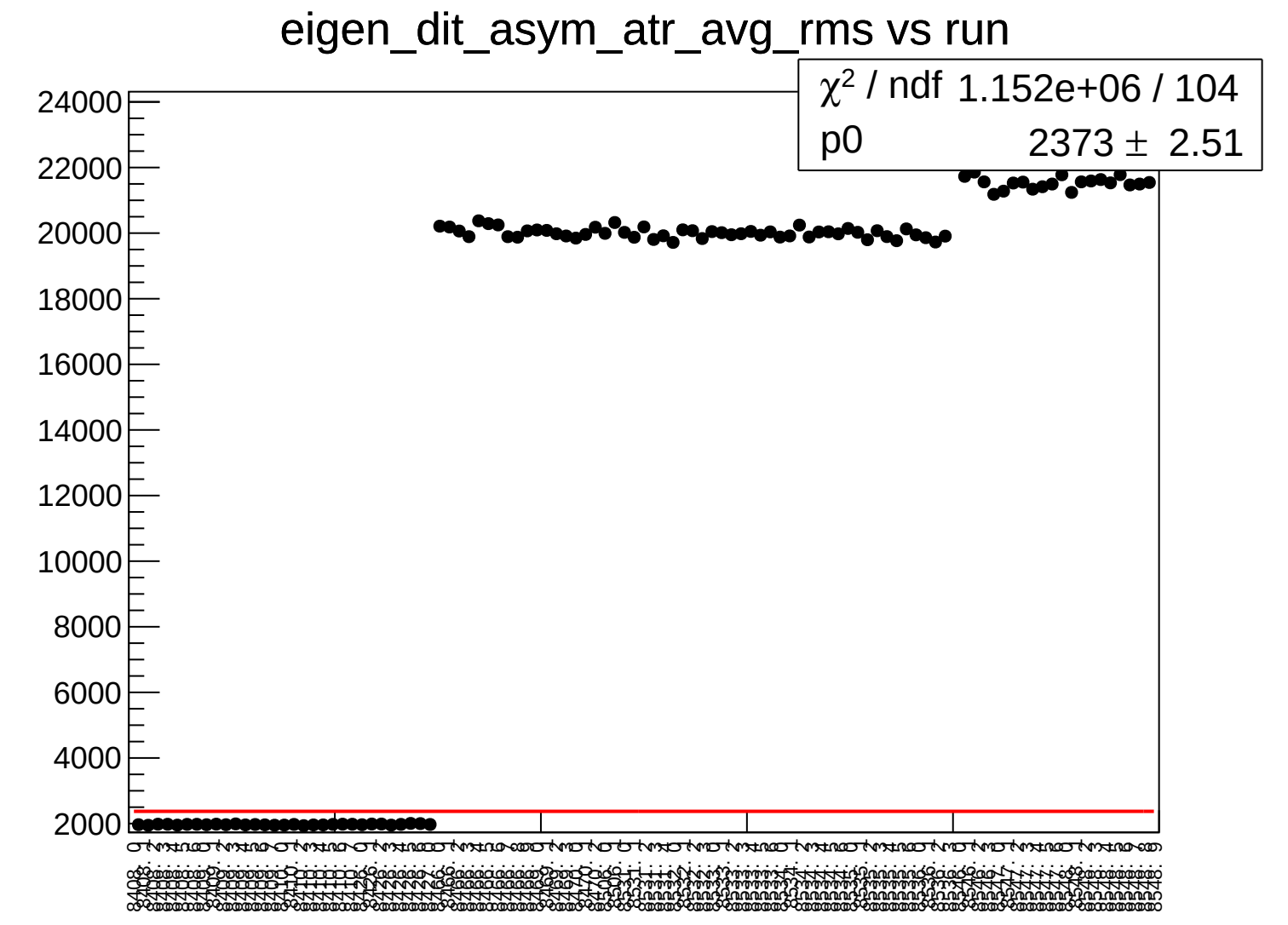

asym_atr_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 96.13 / 104
p0 −472 ± 1373
200
100
0
−100
−200
−300
pull
Entries 105
Mean −78.58
Std Dev 0
3
2
1
0
−1
−2

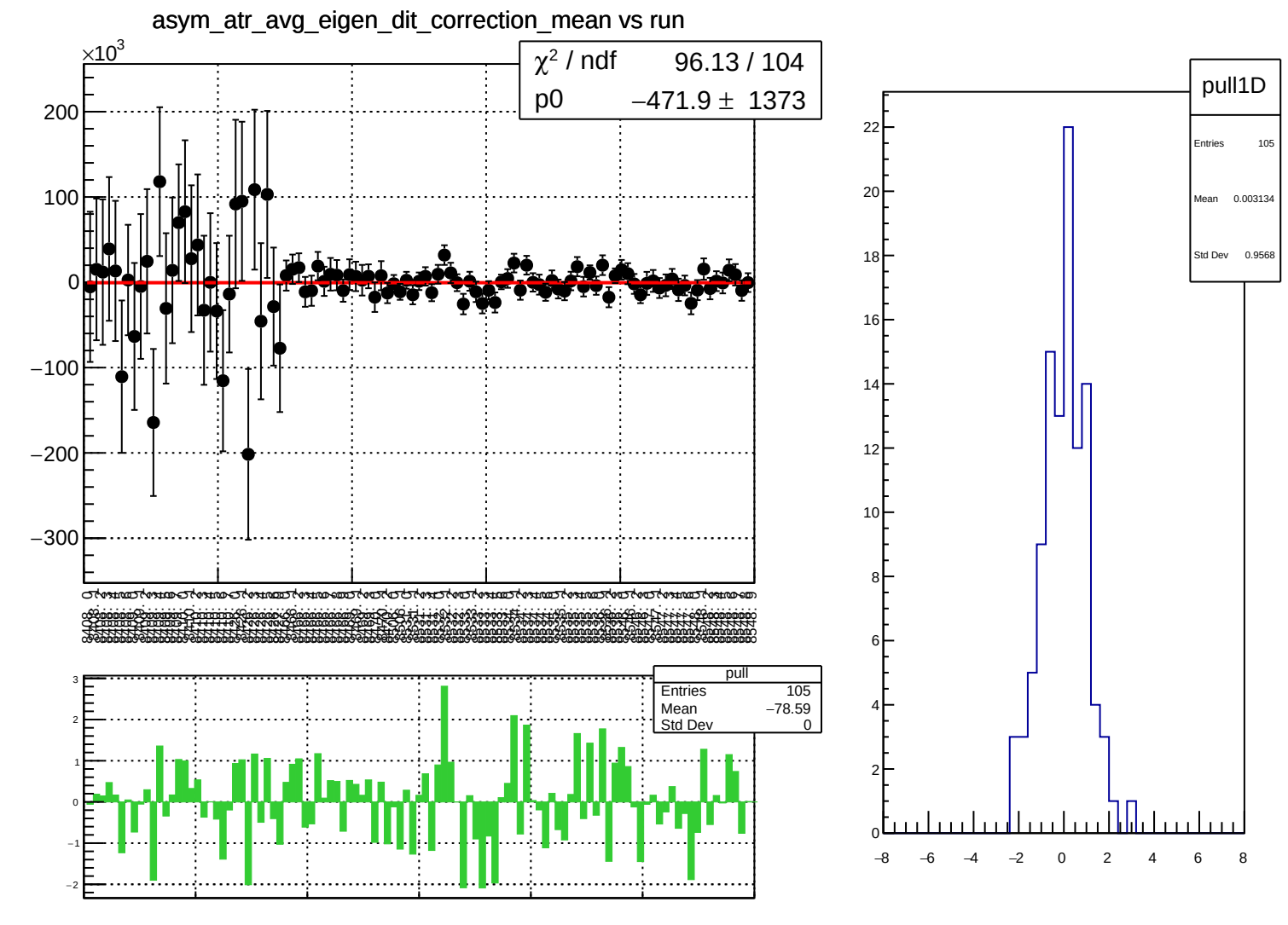

pull1D
Entries 105
Mean 0.003134
Std Dev 0.9568
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

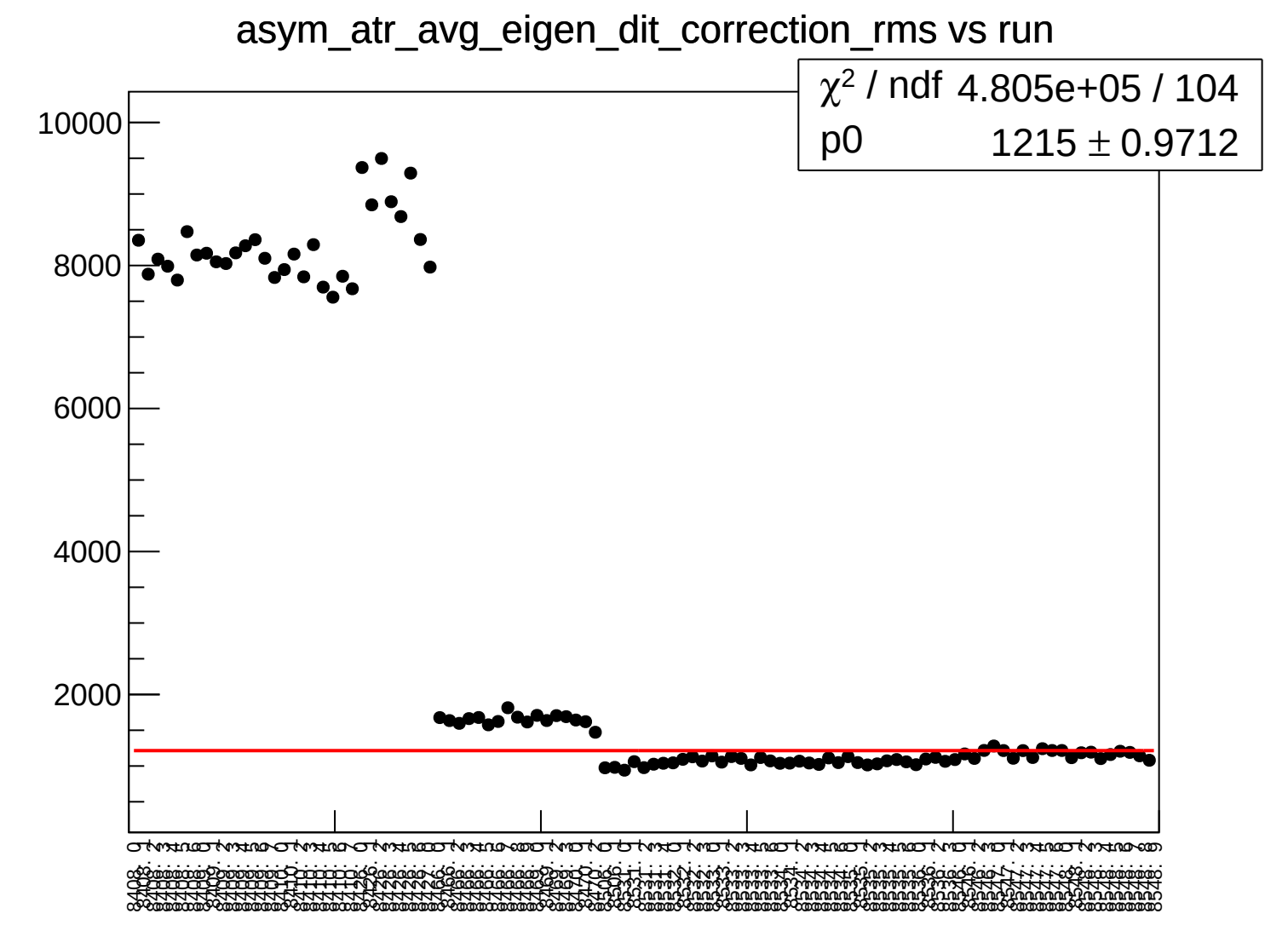

asym_atr_avg_dit_correction_rms vs run
χ^2 / ndf 4.805e+05 / 104
p0 1215 ± 0.9712
10000
8000
6000
4000
2000

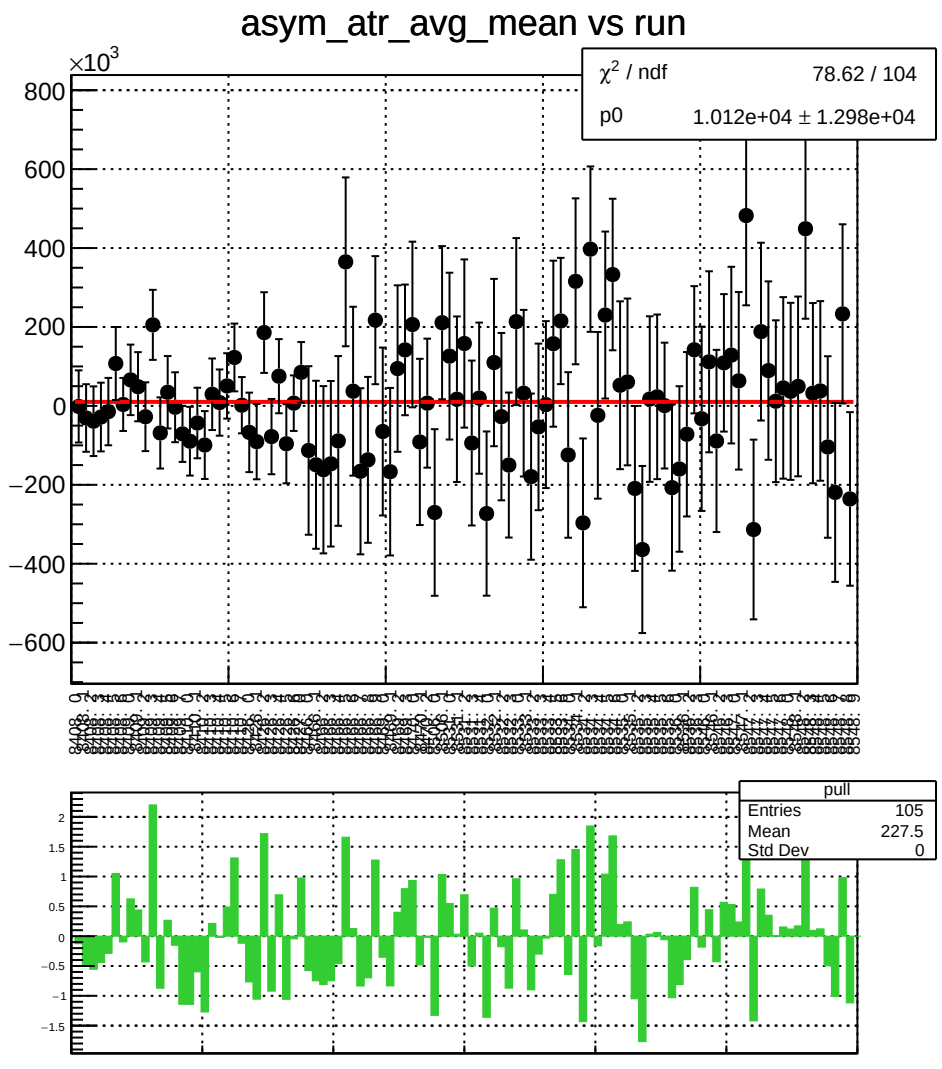

eigen_dit_asym_atr_avg_mean vs run
×10^3
χ^2 / ndf 89.78 / 104
p0 3512 ± 3550
800
600
400
200
0
−200
−400
−600
pull
Entries 105
Mean 94.76
Std Dev 0
2
1
0
−1
−2
−3

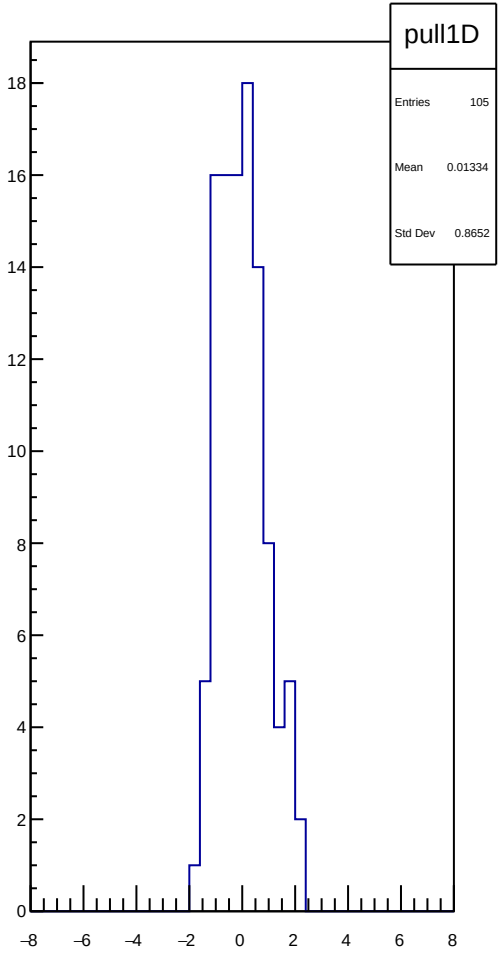

pull1D
Entries 105
Mean 0.04989
Std Dev 0.9233
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

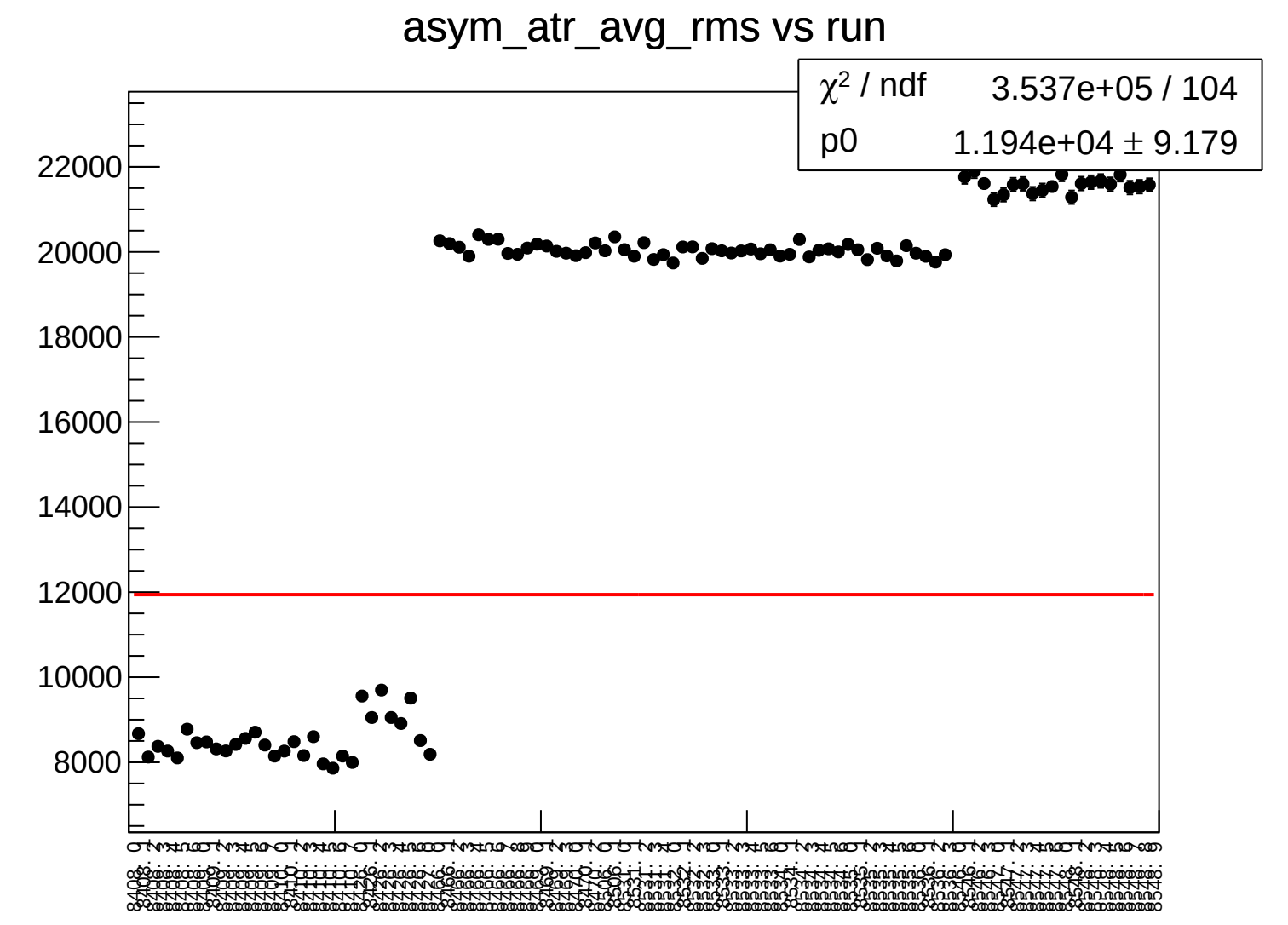

eigen_dit_asym_atr_avg_rms vs run
χ² / ndf 1.152e+06 / 104
p0 2373 ± 2.51
24000
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000

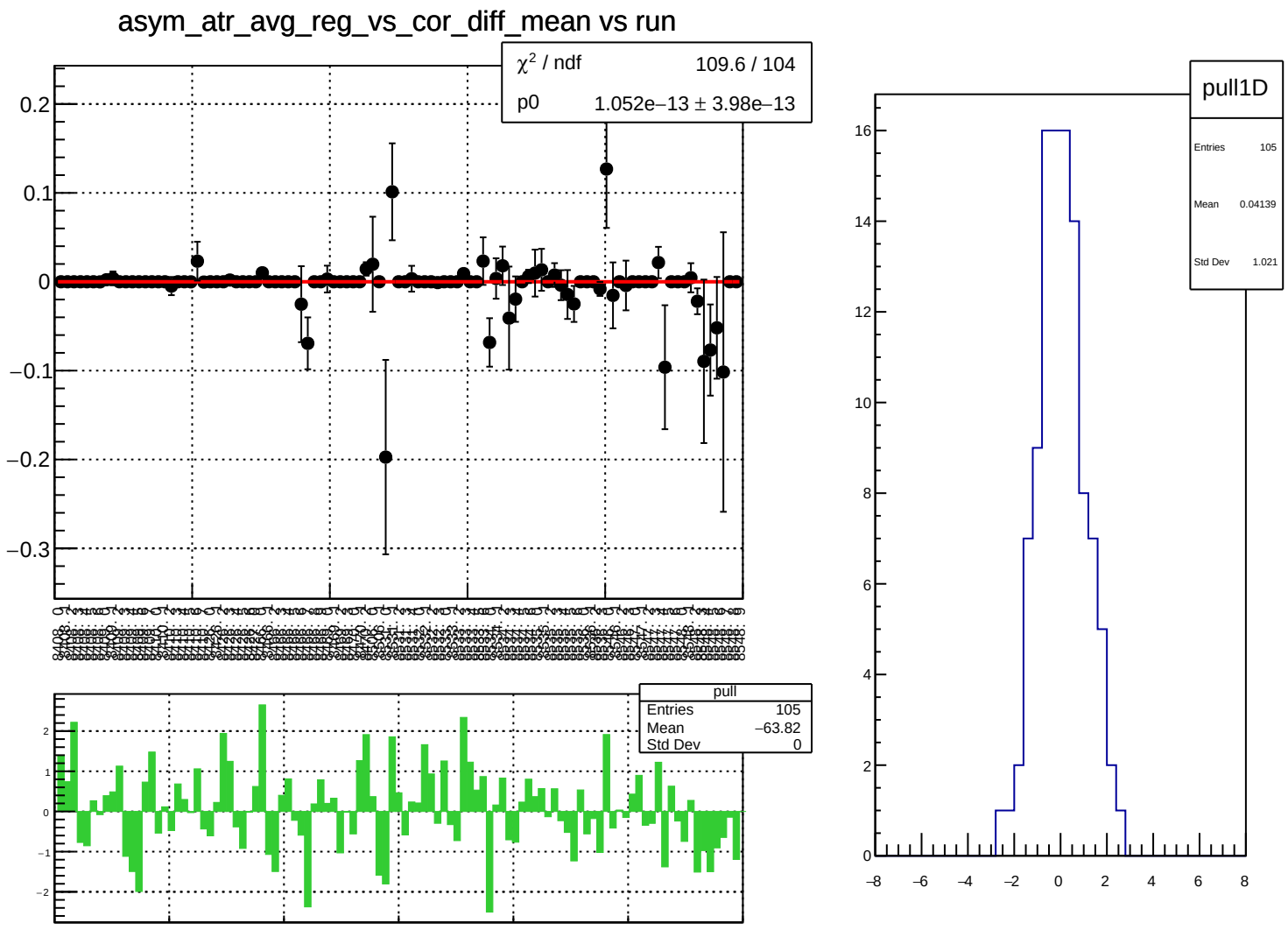

asym_atr_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 96.13 / 104
p0 −471.9 ± 1373
200
100
0
−100
−200
−300
pull
Entries 105
Mean −78.59
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.003134
Std Dev 0.9568
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

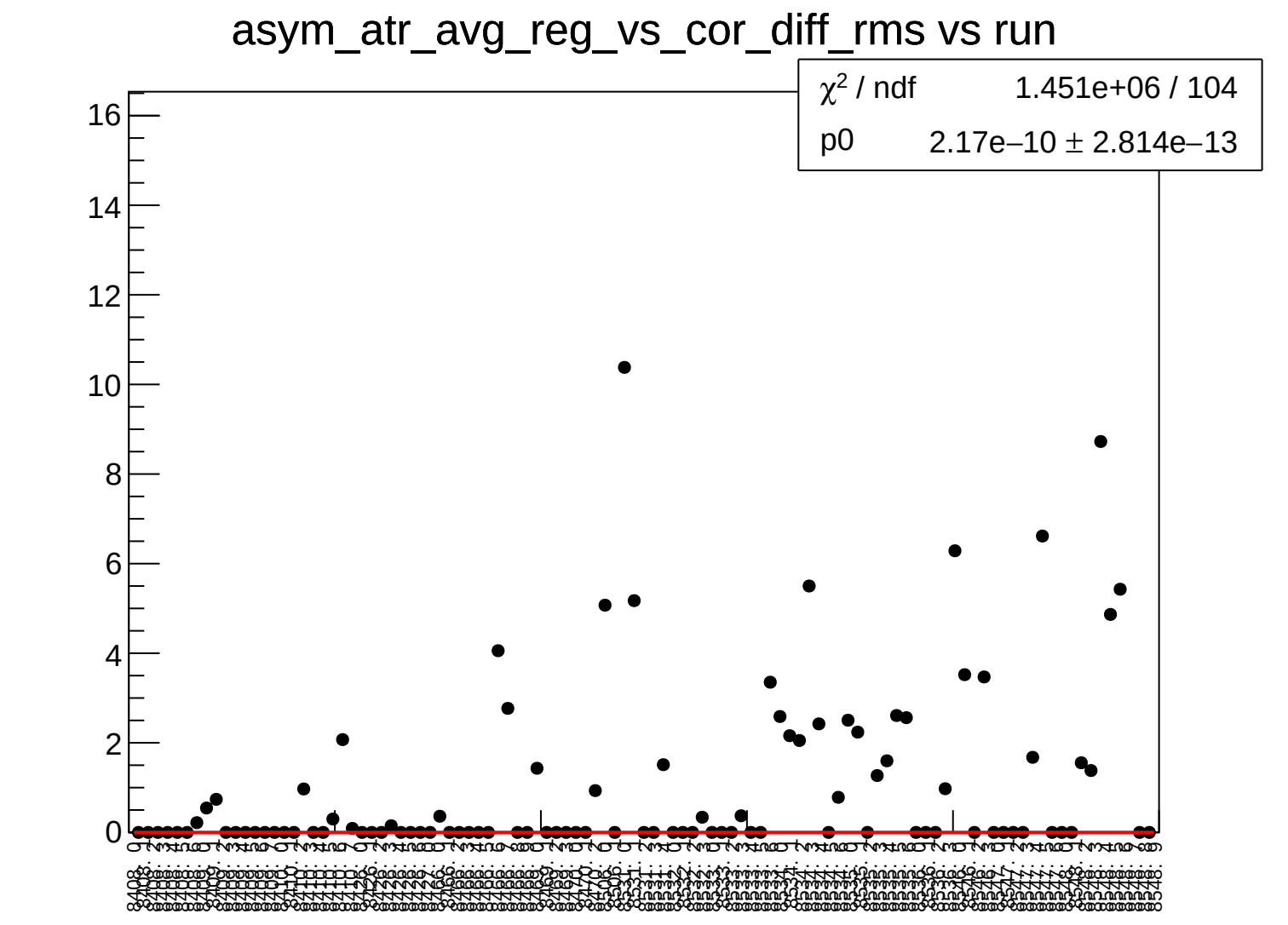

asym_atr_avg_eigen_dit_correction_rms vs run
χ^2 / ndf 4.805e+05 / 104
p0 1215 ± 0.9712
10000
8000
6000
4000
2000

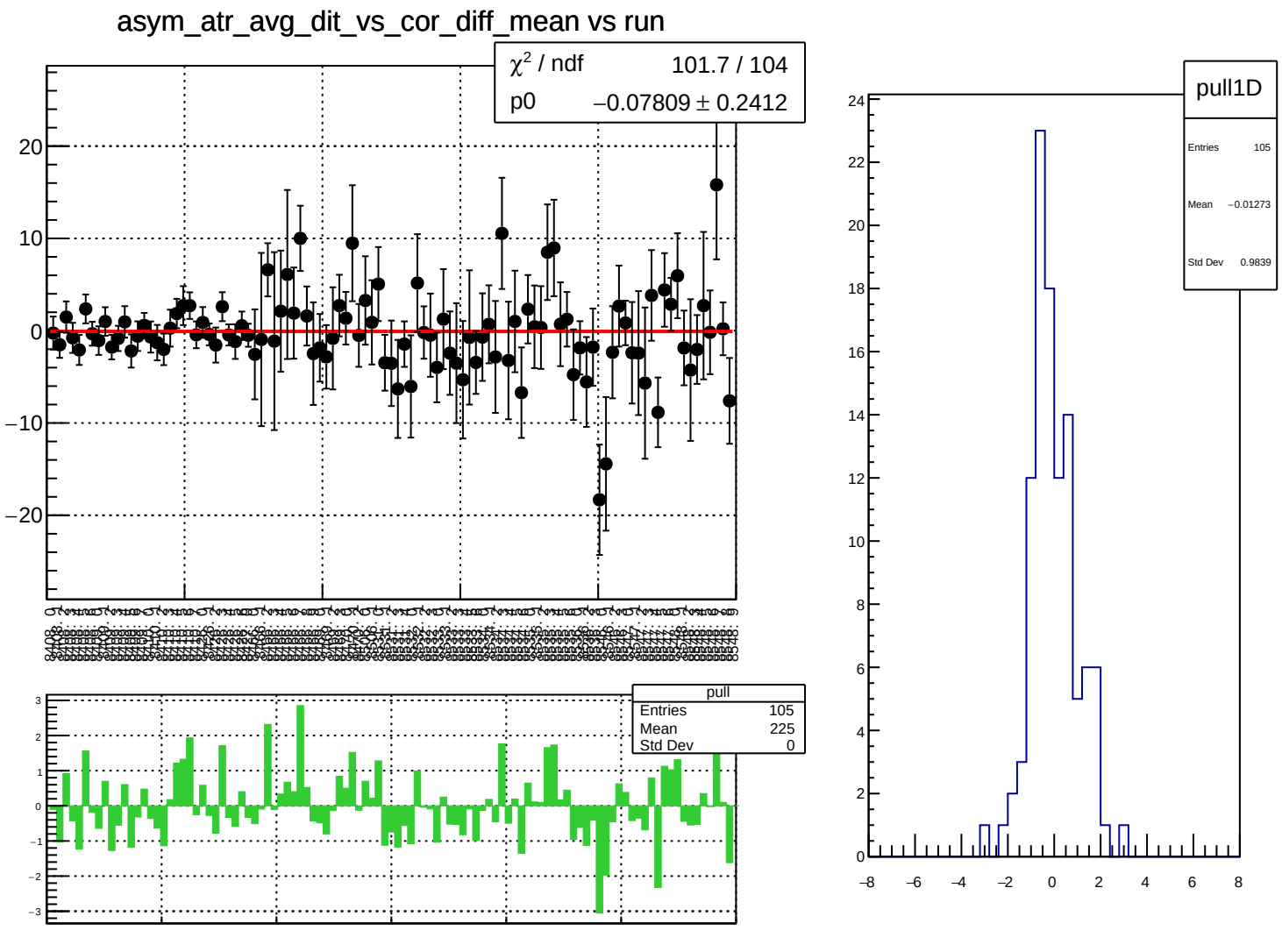

asym_atr_avg_mean vs run
×10^3
χ² / ndf 78.62 / 104
p0 1.012e+04 ± 1.298e+04
pull
Entries 105
Mean 227.5
Std Dev 0

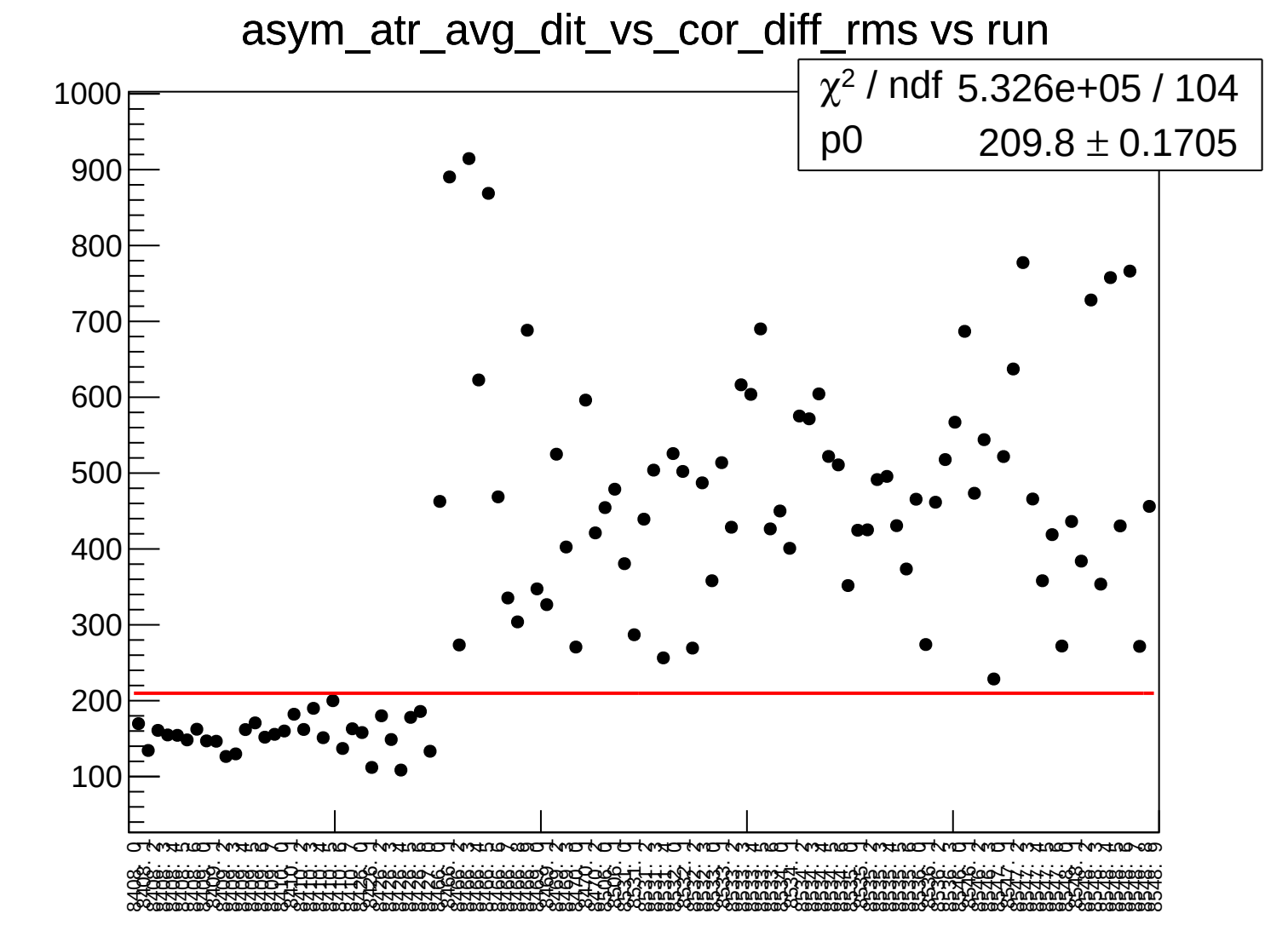

pull1D
Entries 105
Mean 0.01334
Std Dev 0.8652

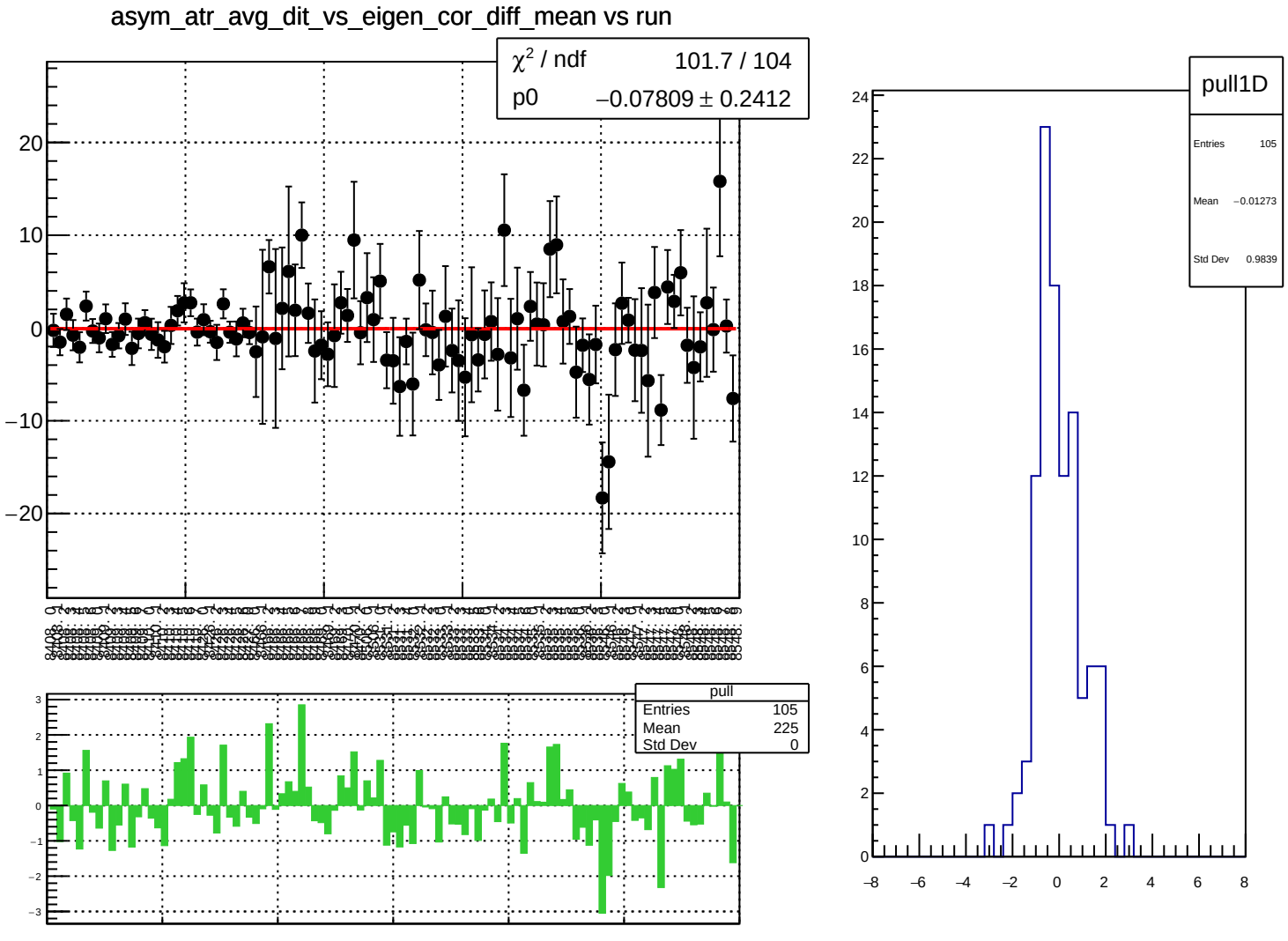

asym_atr_avg_rms vs run
χ² / ndf 3.537e+05 / 104
p0 1.194e+04 ± 9.179
22000
20000
18000
16000
14000
12000
10000
8000

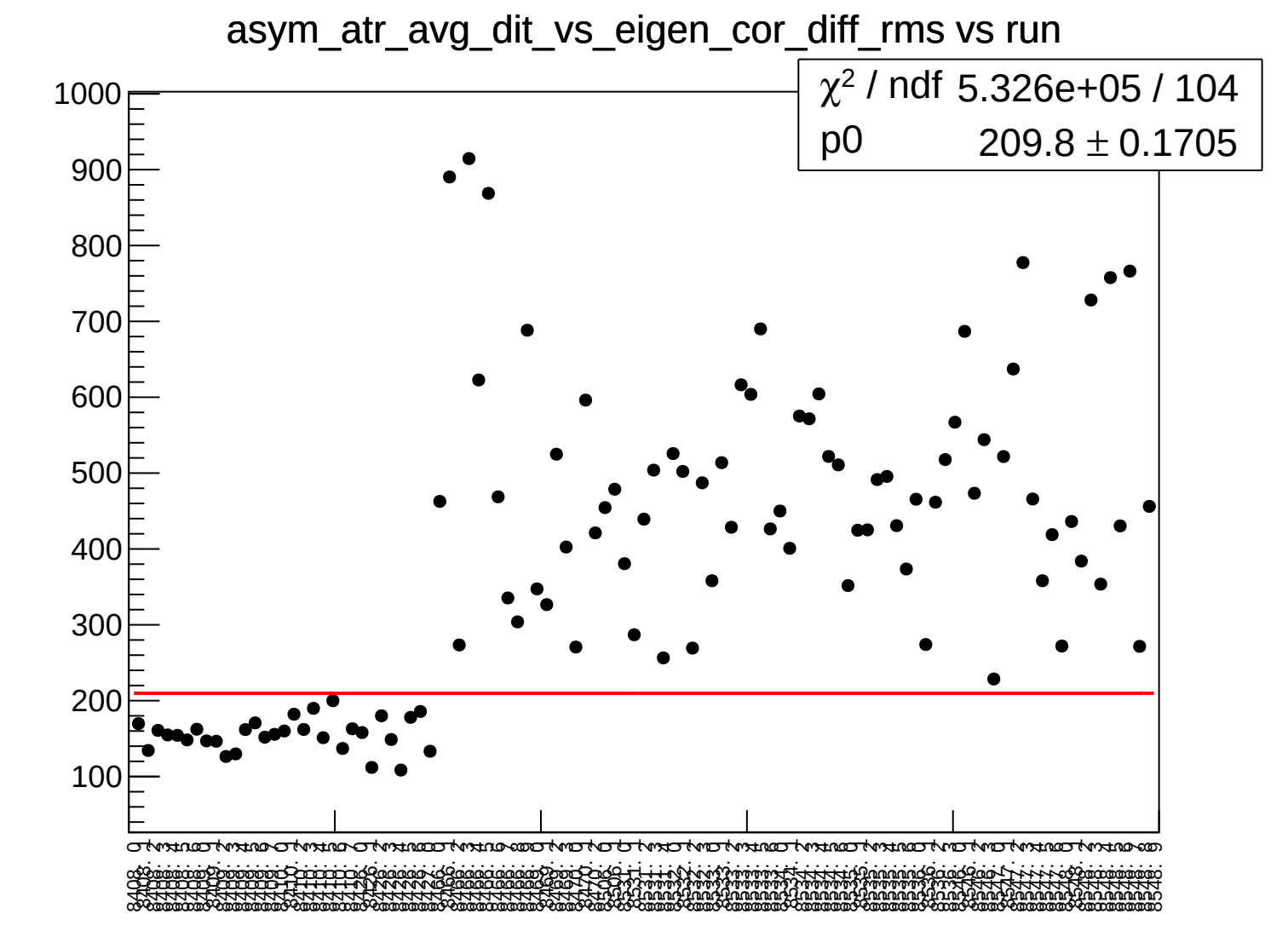

asym_atr_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 109.6 / 104
p0 1.052e−13 ± 3.98e−13
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 105
Mean −63.82
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.04139
Std Dev 1.021
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

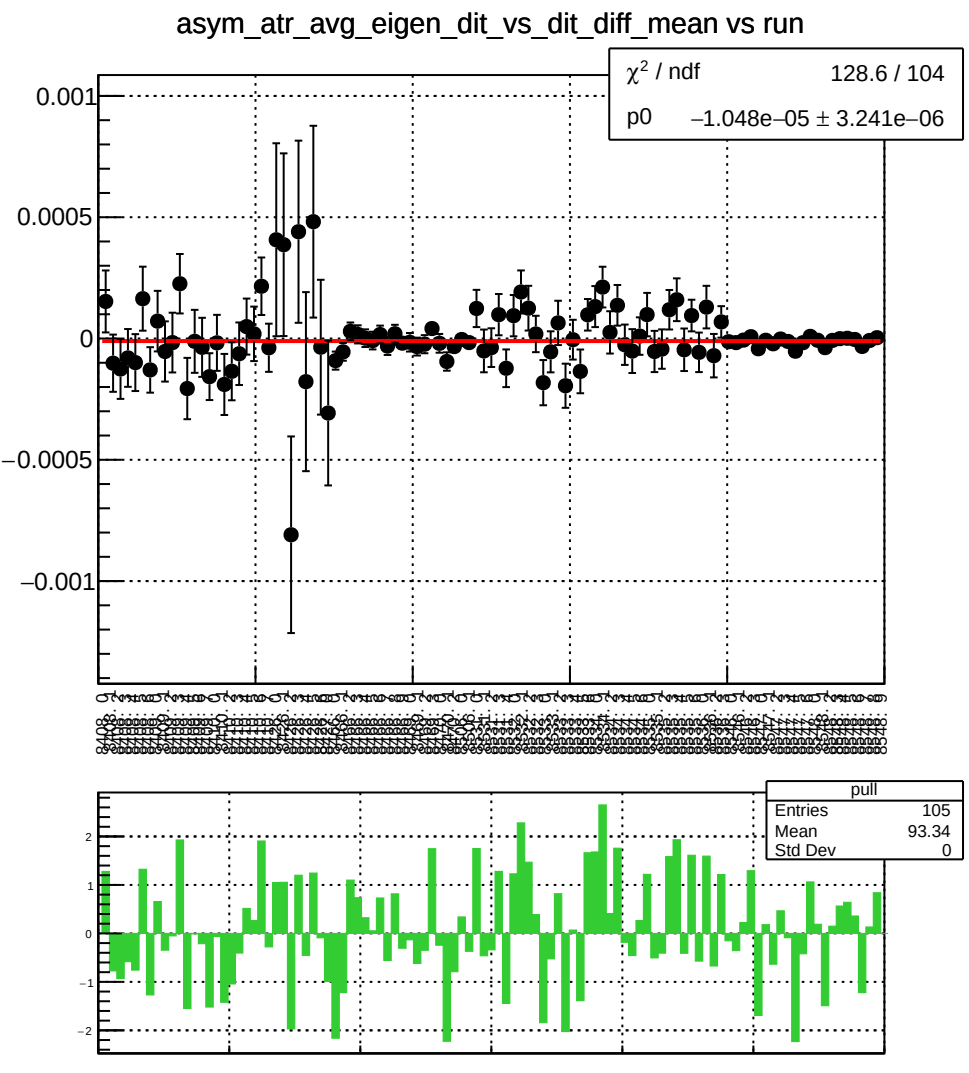

asym_atr_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.451e+06 / 104
p0 2.17e−10 ± 2.814e−13
16
14
12
10
8
6
4
2
0

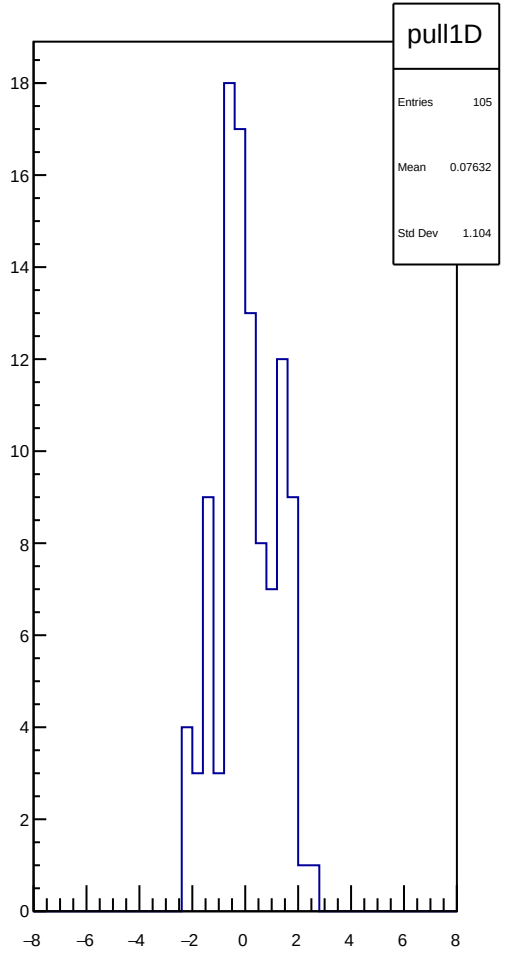

asym_atr_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 101.7 / 104
p0 −0.07809 ± 0.2412
pull
Entries 105
Mean 225
Std Dev 0
pull1D
Entries 105
Mean −0.01273
Std Dev 0.9839

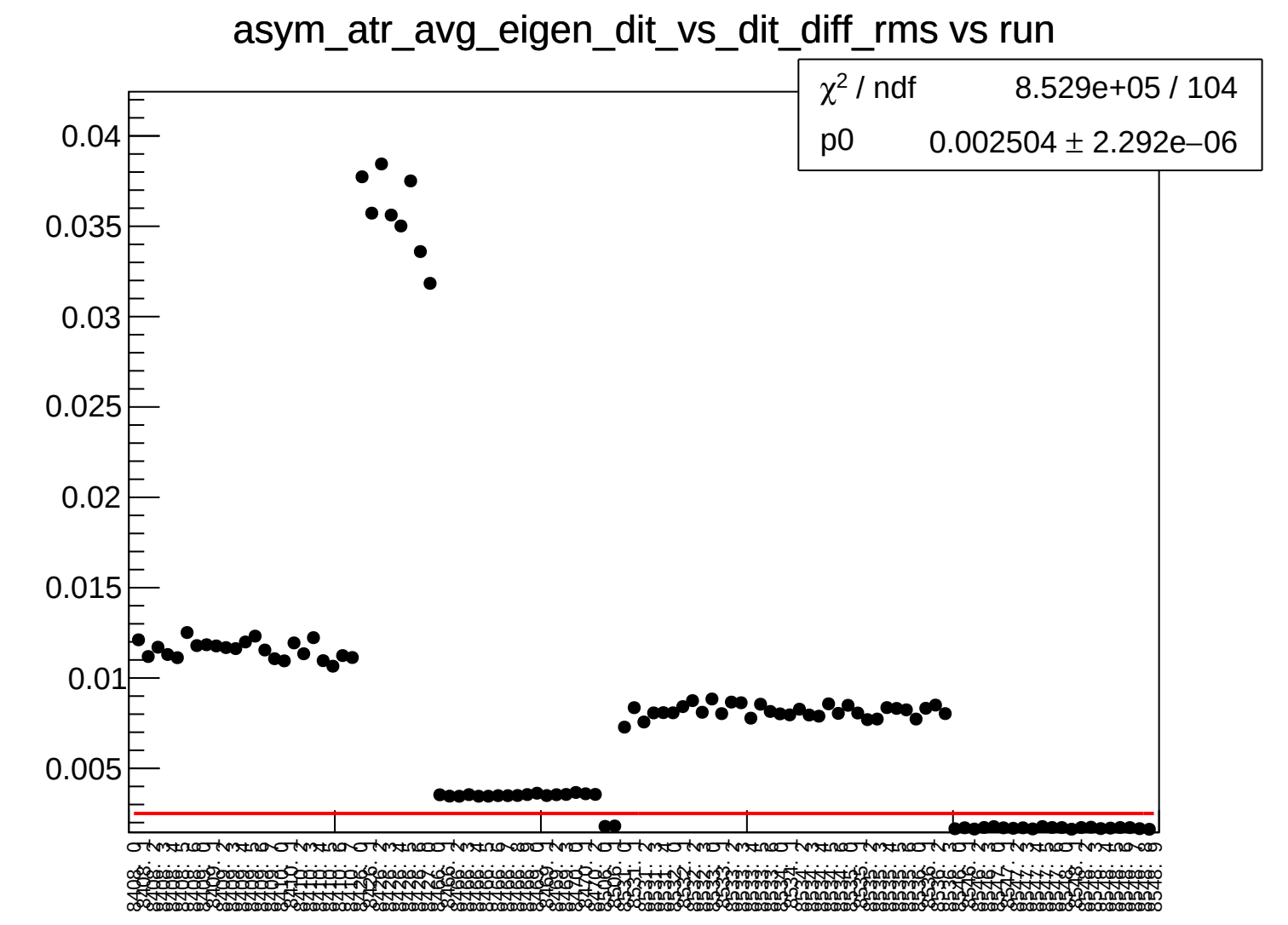

asym_atr_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.326e+05 / 104
p0 209.8 ± 0.1705
1000
900
800
700
600
500
400
300
200
100

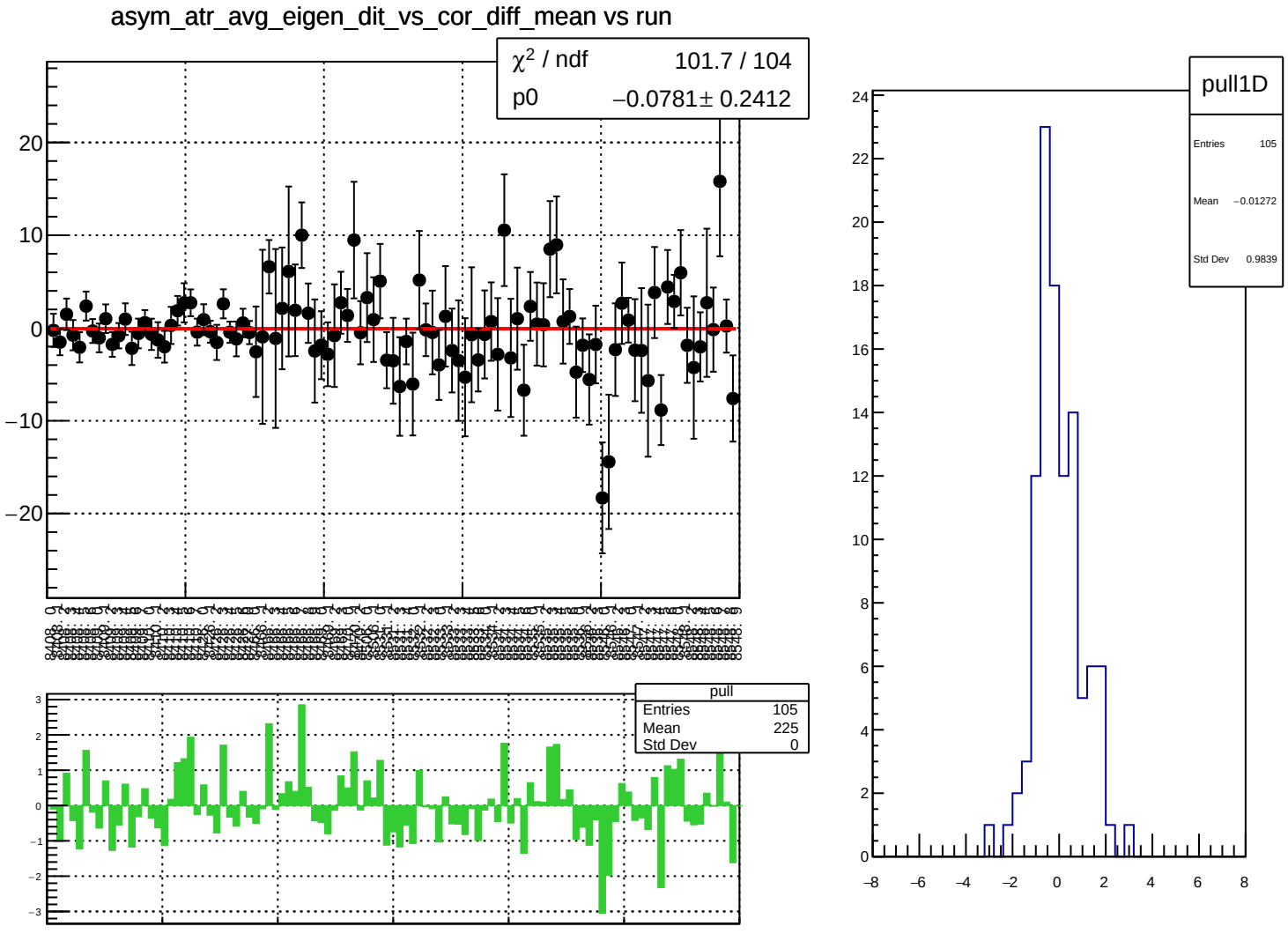

asym_atr_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.7 / 104
p0 −0.07809 ± 0.2412
20
10
0
−10
−20
pull
Entries 105
Mean 225
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 105
Mean −0.01273
Std Dev 0.9839
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

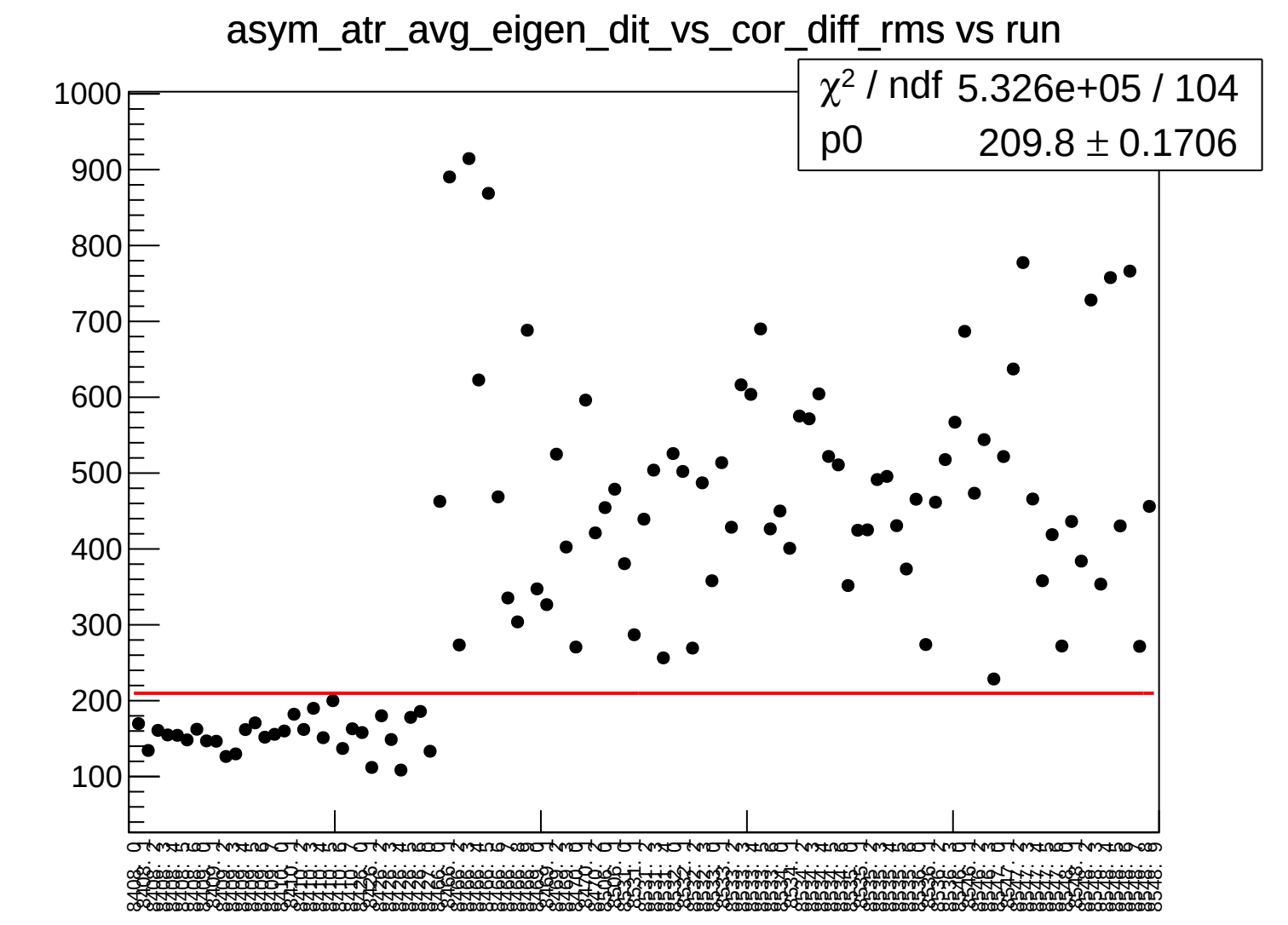

asym_atr_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.326e+05 / 104
p0 209.8 ± 0.1705
1000
900
800
700
600
500
400
300
200
100

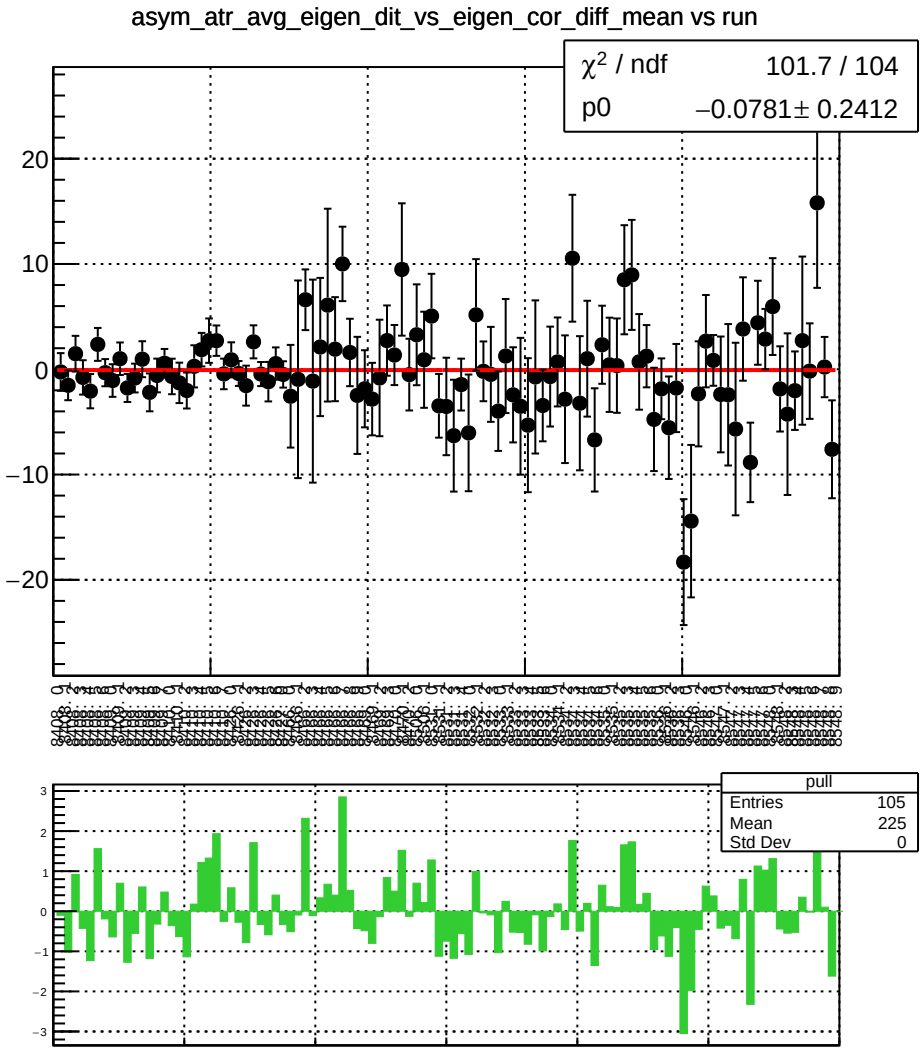

asym_atr_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 128.6 / 104
p0 −1.048e−05 ± 3.241e−06
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 105
Mean 93.34
Std Dev 0
2
1
0
−1
−2

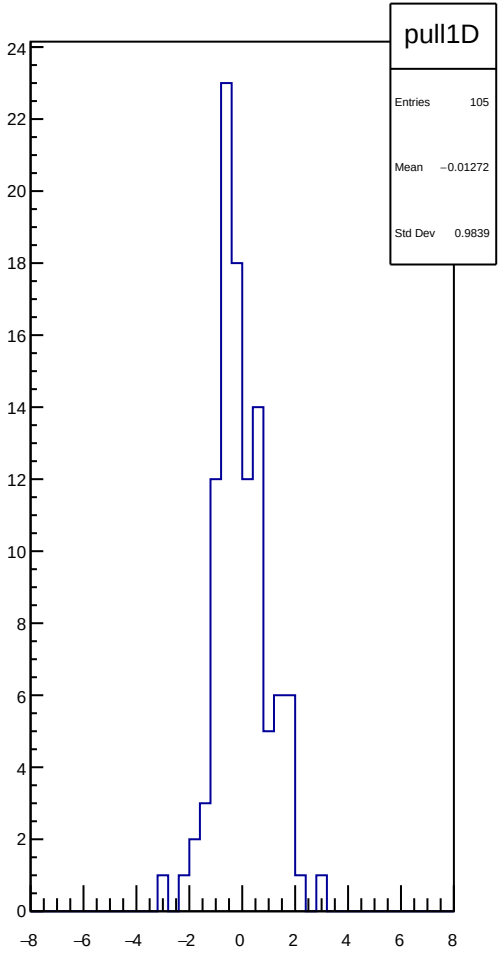

pull1D
Entries 105
Mean 0.07632
Std Dev 1.104
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

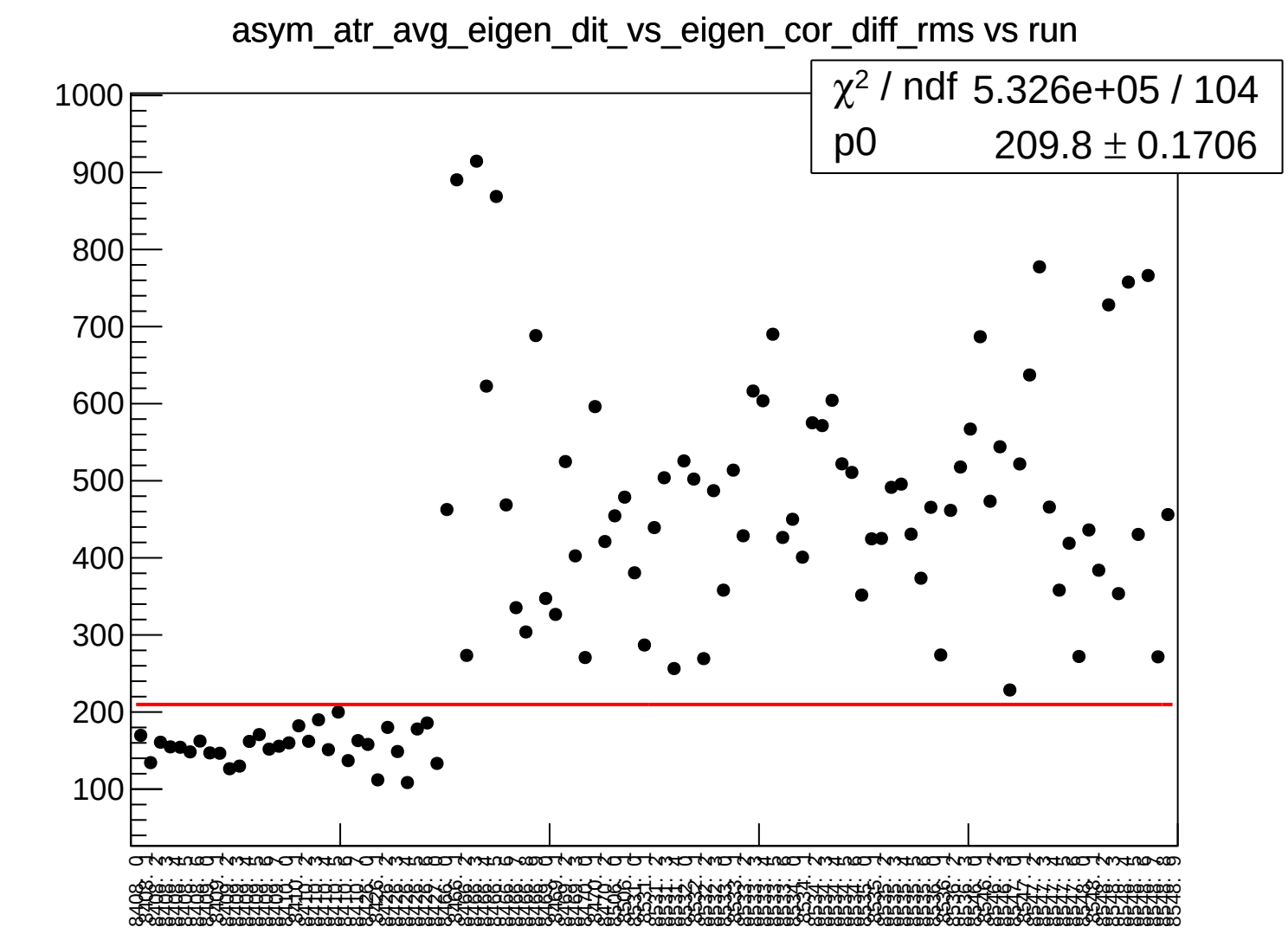

asym_atr_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.529e+05 / 104
p0 0.002504 ± 2.292e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

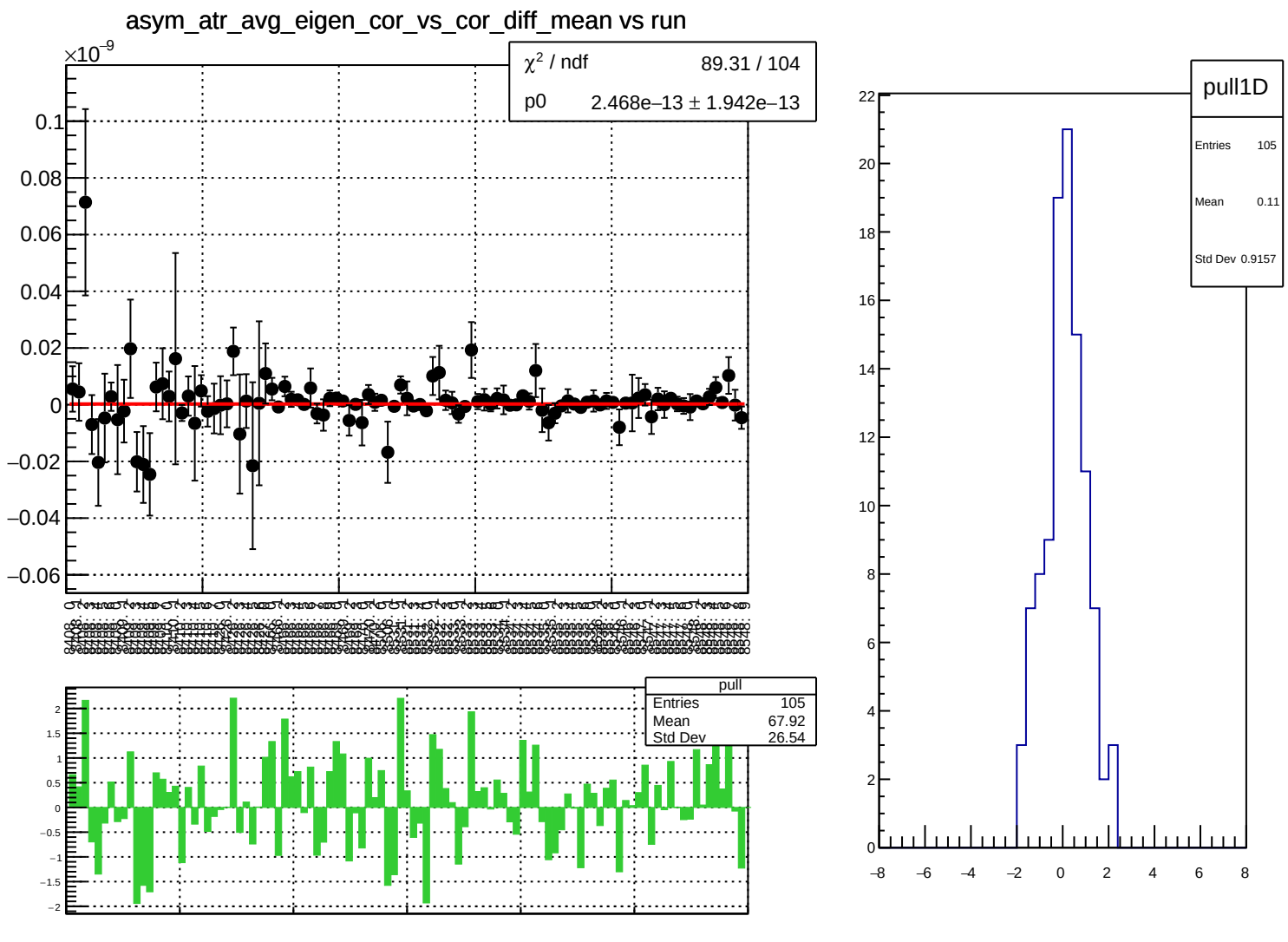

asym_atr_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 101.7 / 104
p0 −0.0781± 0.2412
pull
Entries 105
Mean 225
Std Dev 0
pull1D
Entries 105
Mean −0.01272
Std Dev 0.9839

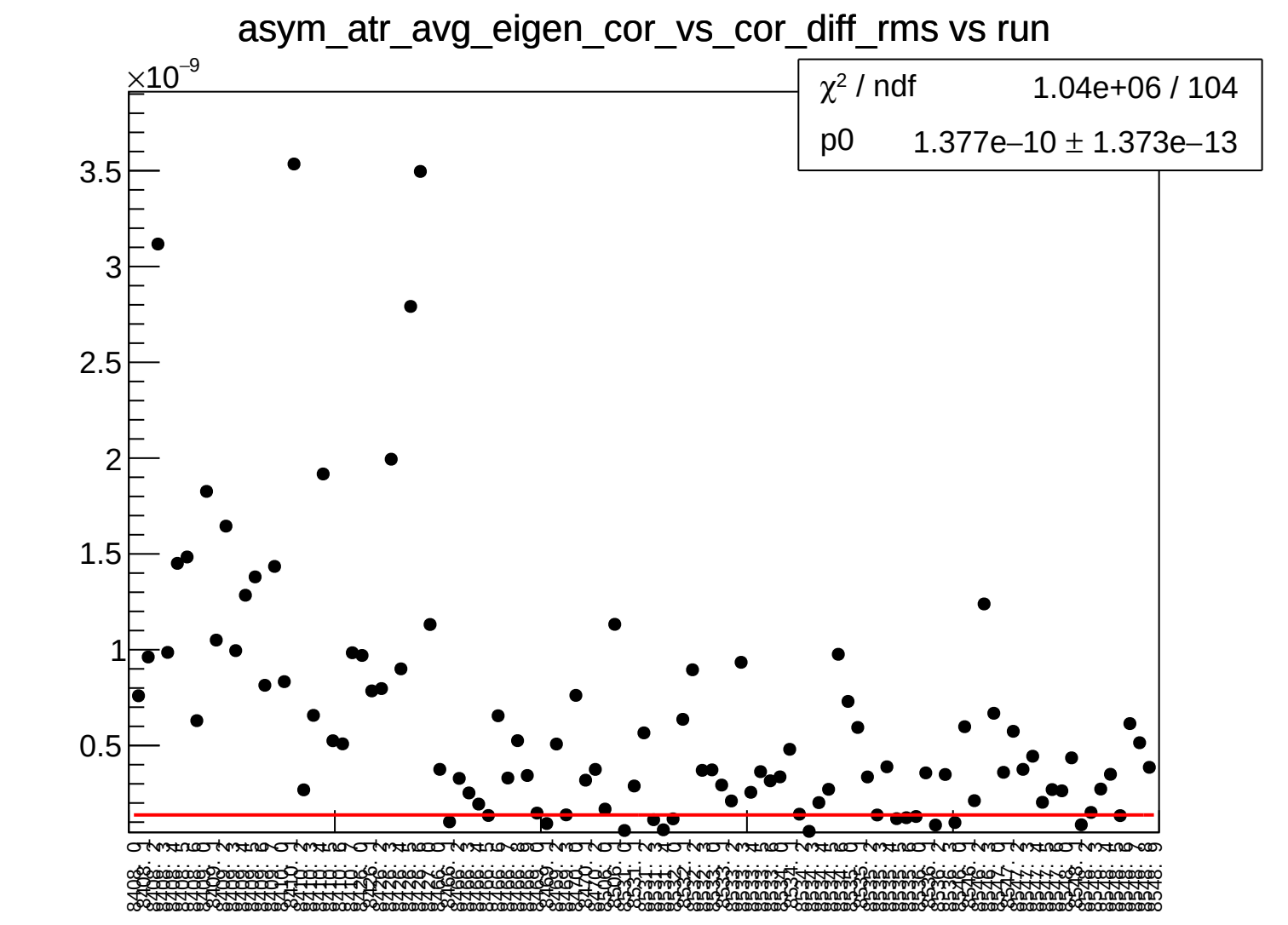

asym_atr_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.326e+05 / 104
p0 209.8 ± 0.1706
1000
900
800
700
600
500
400
300
200
100

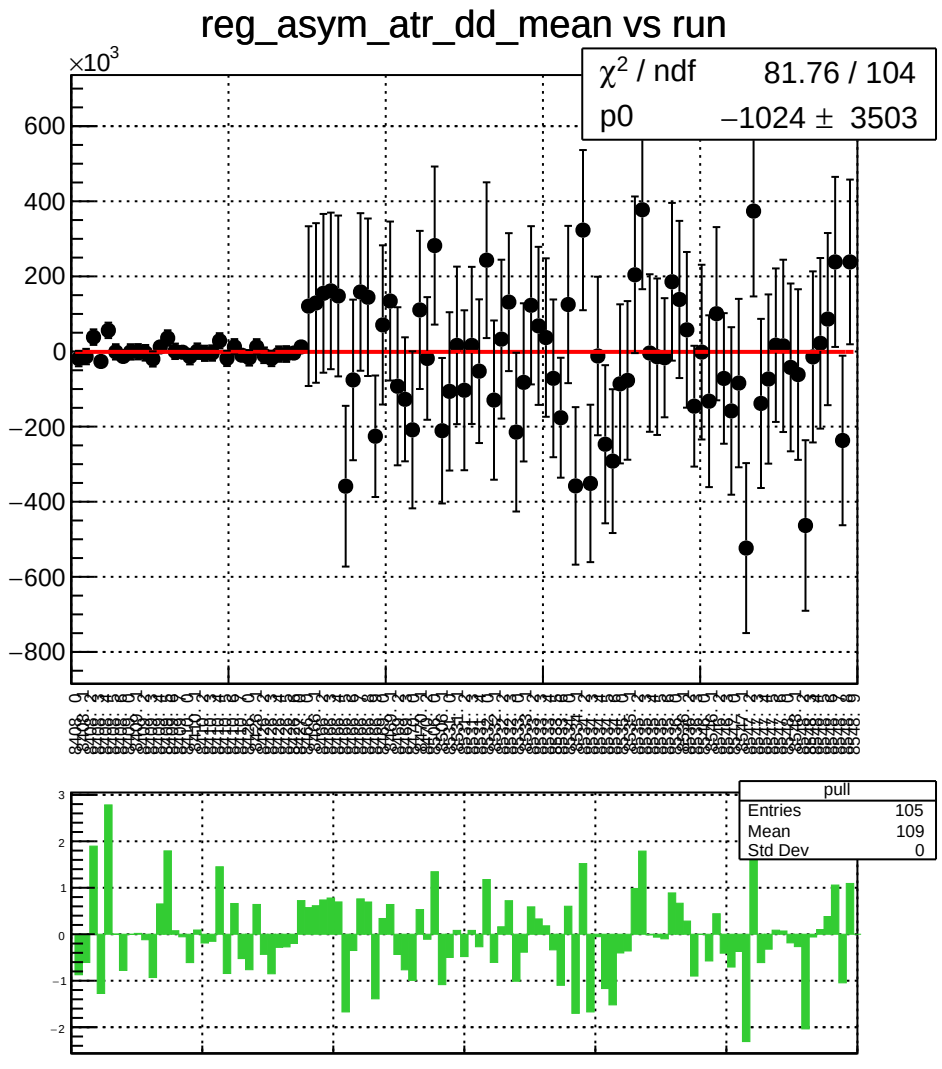

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.7 / 104
p0 −0.0781± 0.2412
pull
Entries 105
Mean 225
Std Dev 0

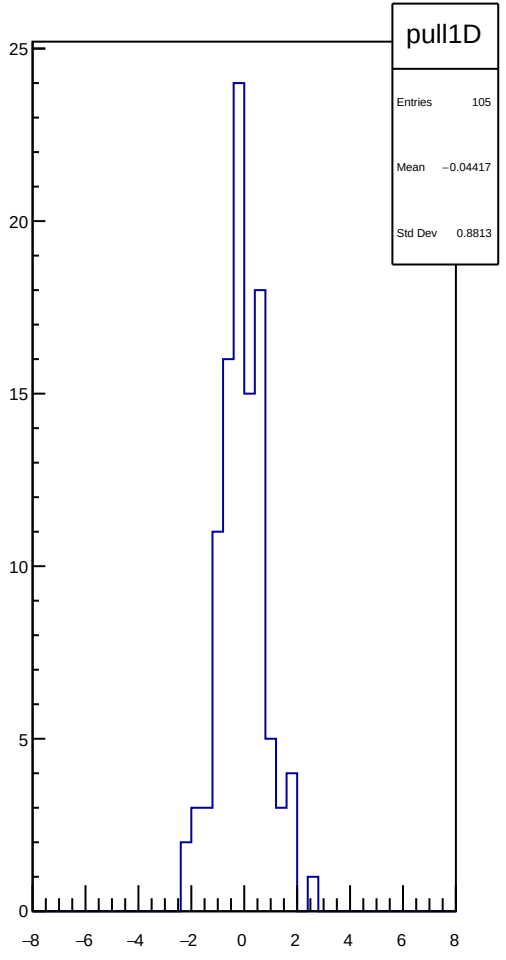

pull1D
Entries 105
Mean −0.01272
Std Dev 0.9839

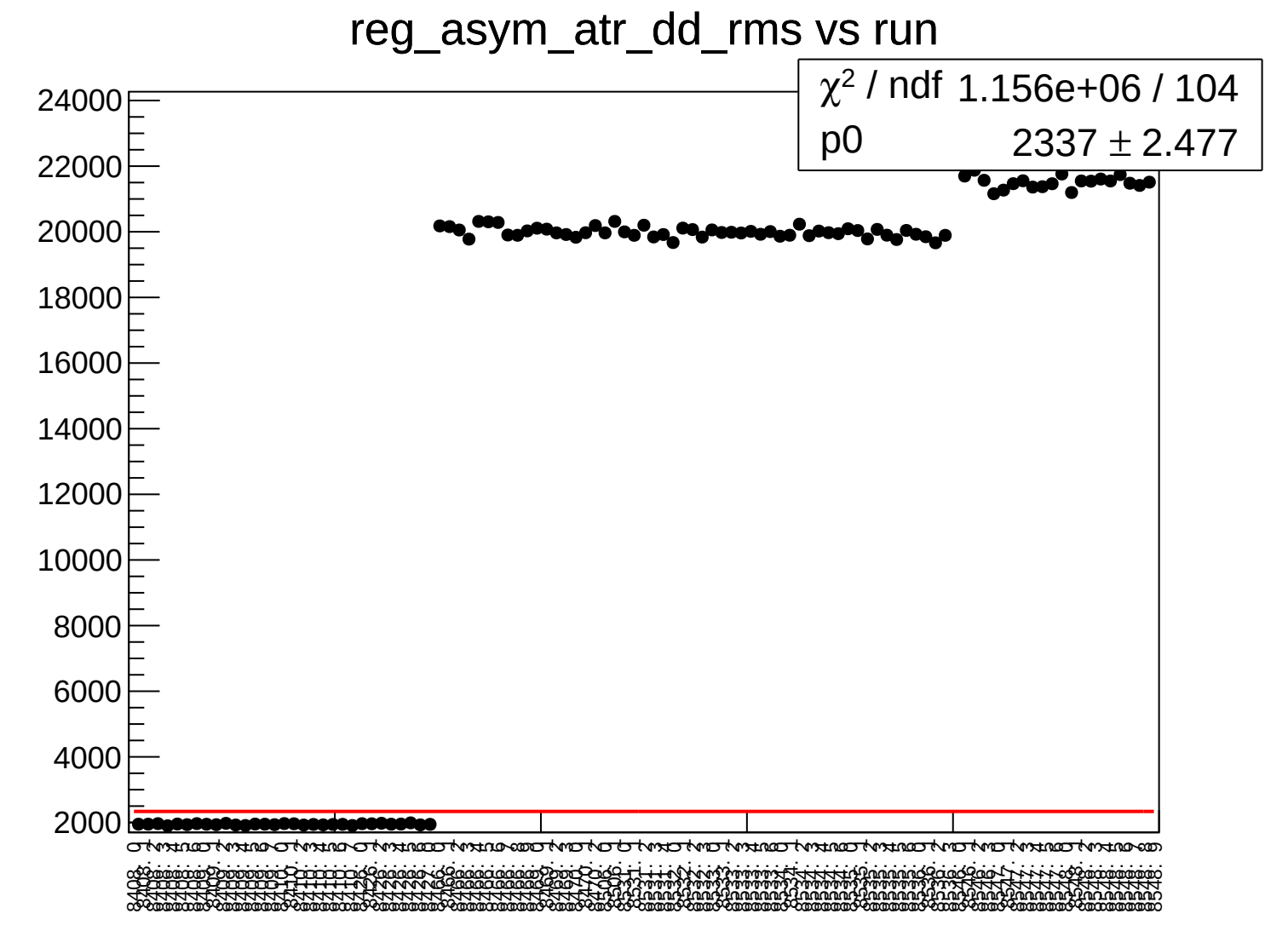

asym_atr_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.326e+05 / 104
p0 209.8 ± 0.1706
1000
900
800
700
600
500
400
300
200
100

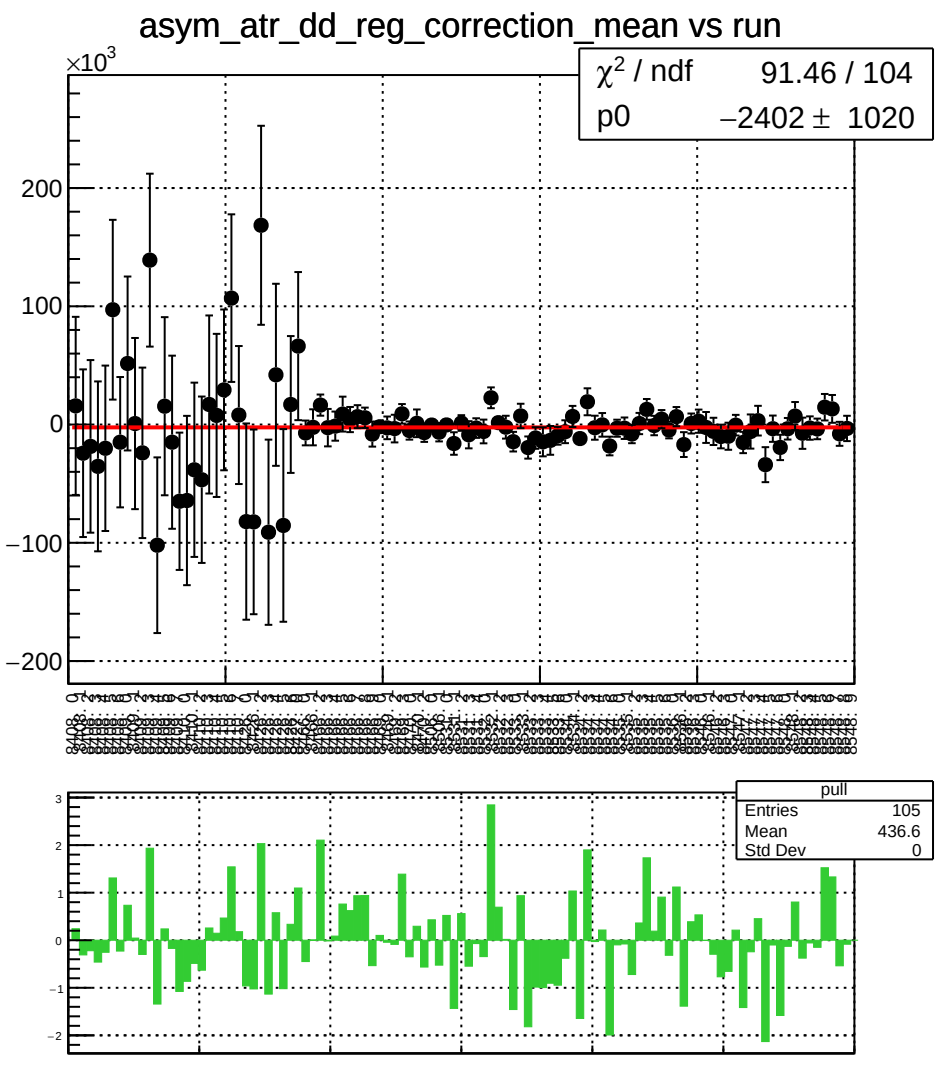

asym_atr_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 89.31 / 104
p0 2.468e−13 ± 1.942e−13
0.1
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 105
Mean 67.92
Std Dev 26.54
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 105
Mean 0.11
Std Dev 0.9157
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

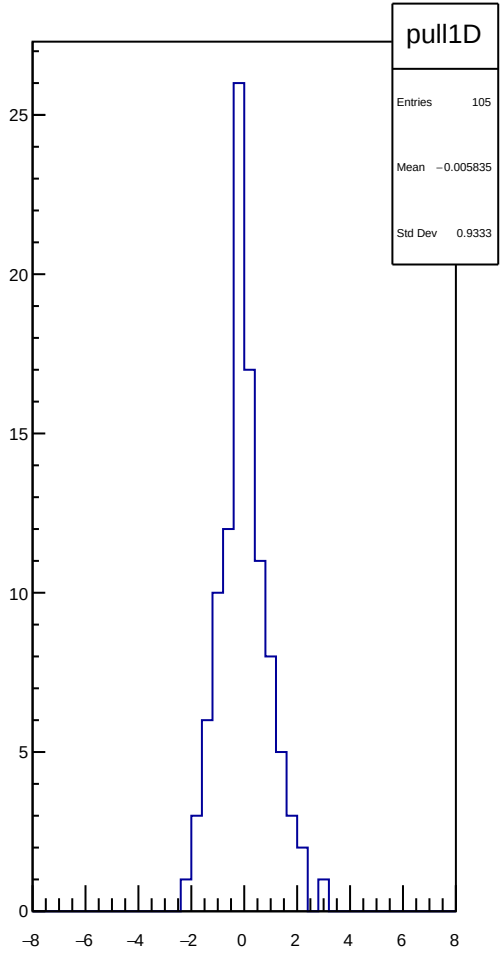

asym_atr_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.04e+06 / 104
p0 1.377e−10 ± 1.373e−13
3.5
3
2.5
2
1.5
1
0.5

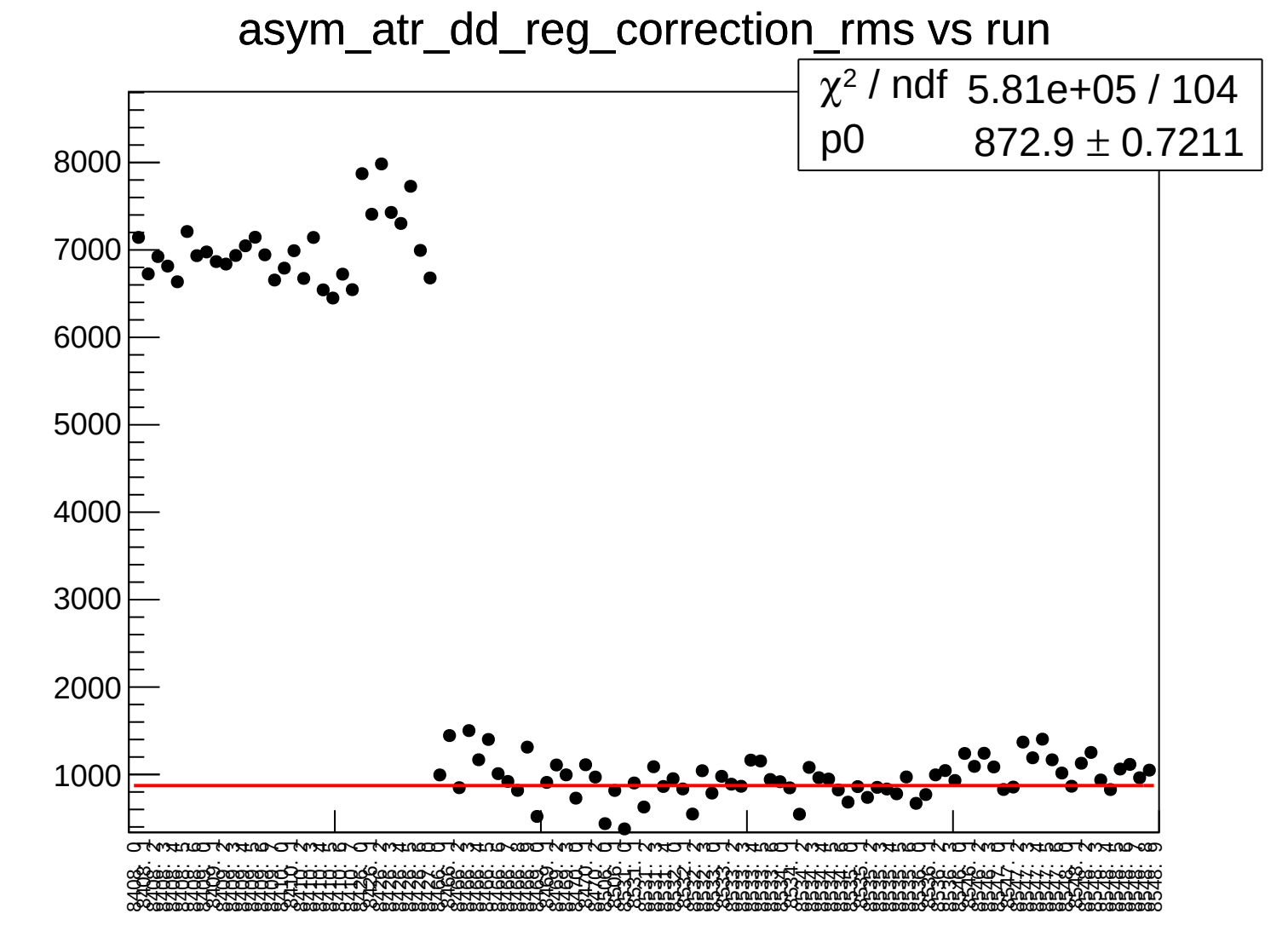

reg_asym_atr_dd_mean vs run
×10^3
χ^2 / ndf 81.76 / 104
p0 −1024 ± 3503
600
400
200
0
−200
−400
−600
−800
pull
Entries 105
Mean 109
Std Dev 0
3
2
1
0
−1
−2

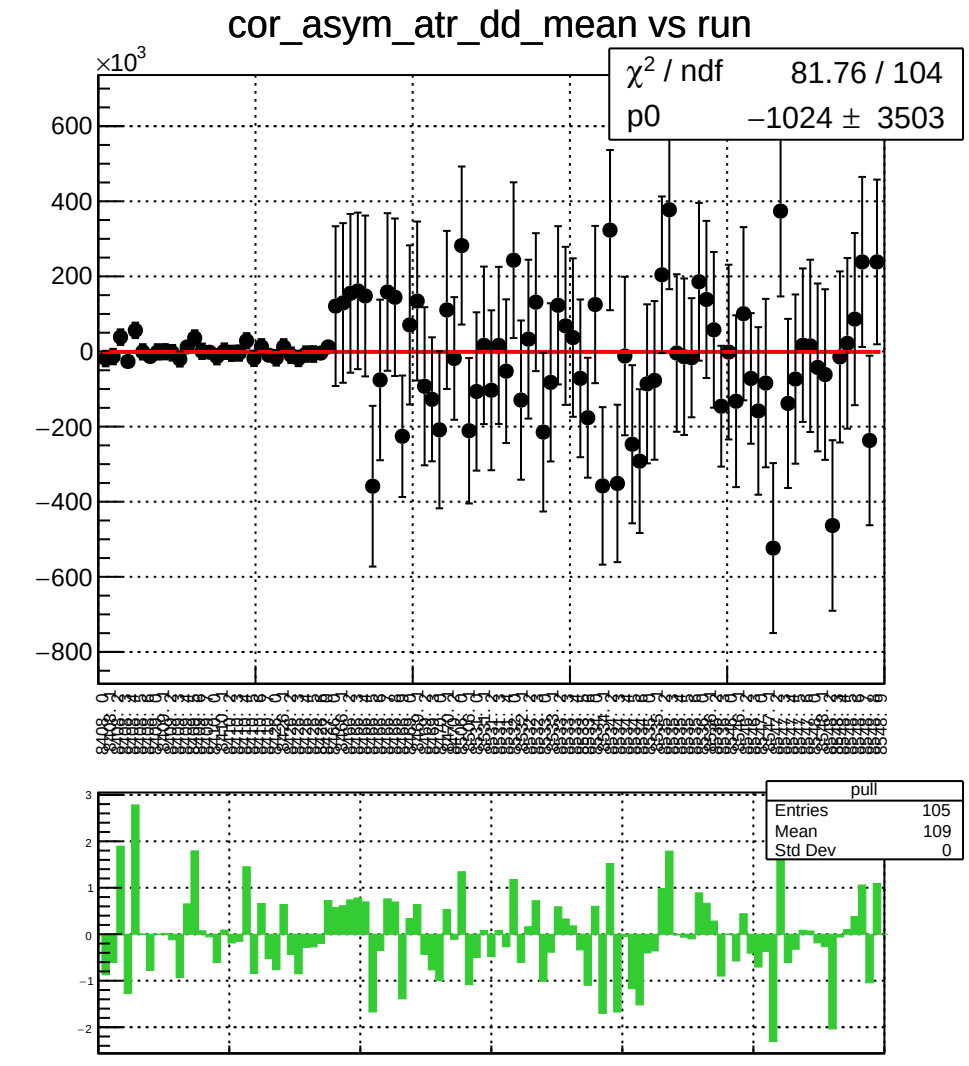

pull1D
Entries 105
Mean −0.04417
Std Dev 0.8813
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

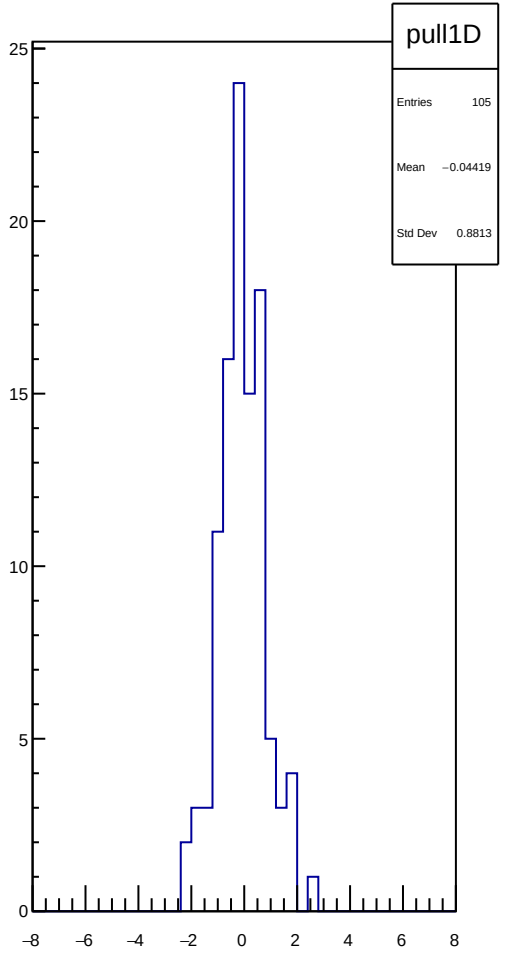

reg_asym_atr_dd_rms vs run
χ² / ndf 1.156e+06 / 104
p0 2337 ± 2.477
24000
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000

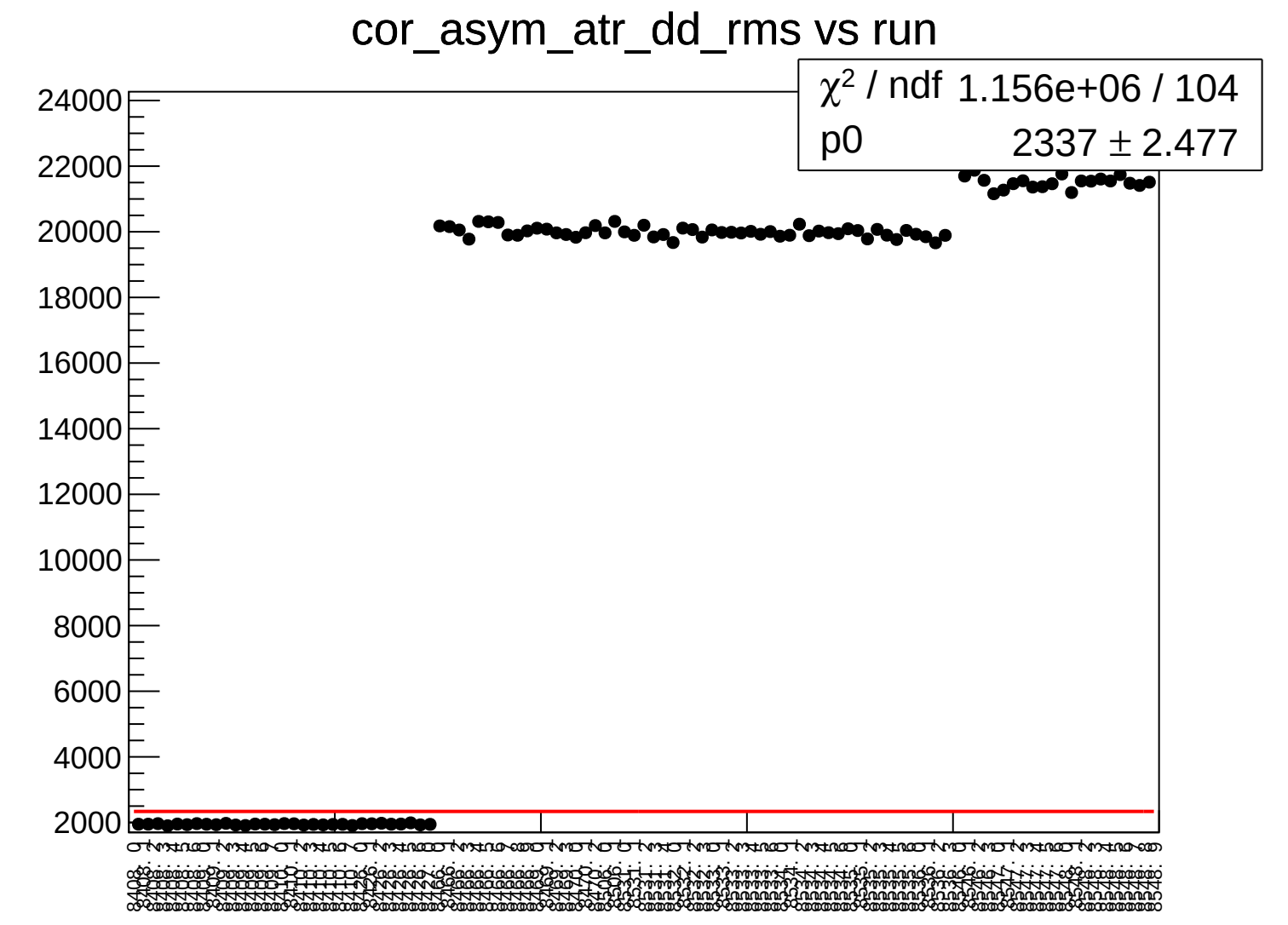

asym_atr_dd_reg_correction_mean vs run
×10^3
χ² / ndf 91.46 / 104
p0 −2402 ± 1020
200
100
0
−100
−200
pull
Entries 105
Mean 436.6
Std Dev 0
3
2
1
0
−1
−2

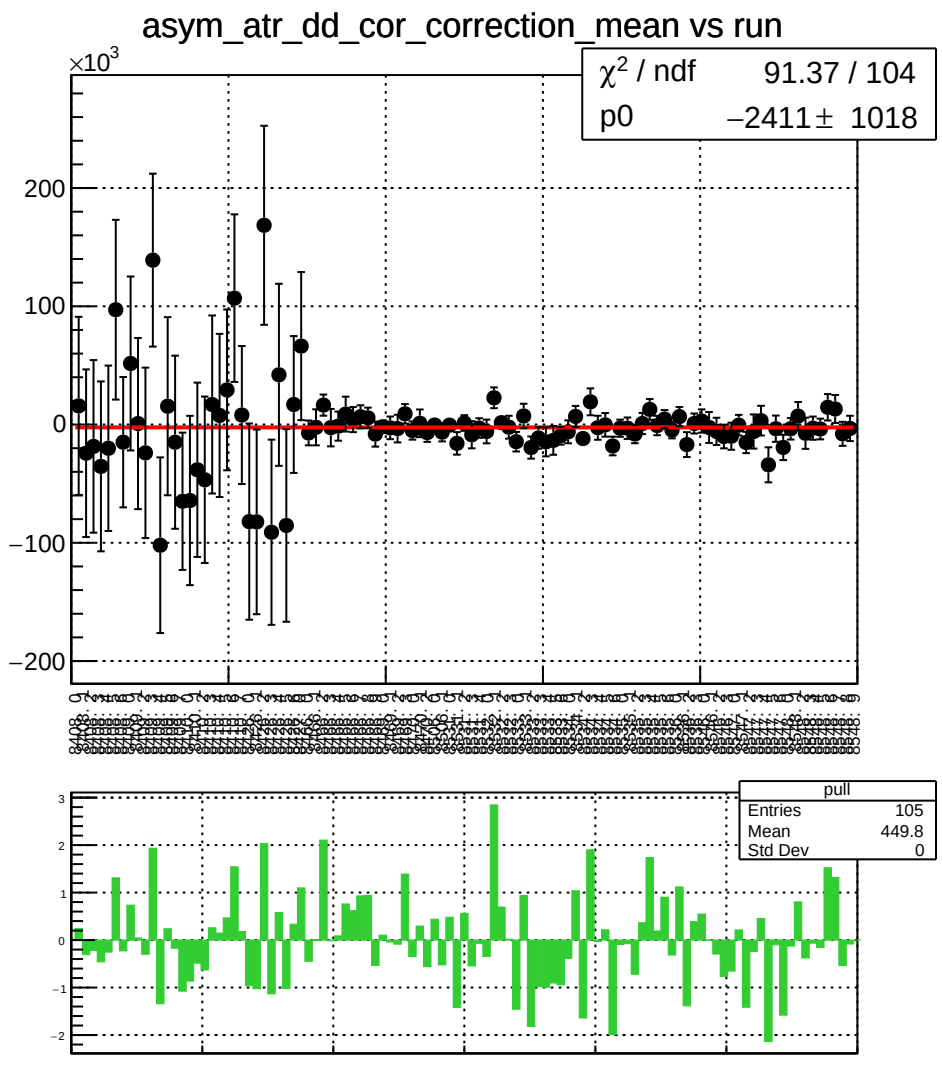

pull1D
Entries 105
Mean −0.005835
Std Dev 0.9333
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

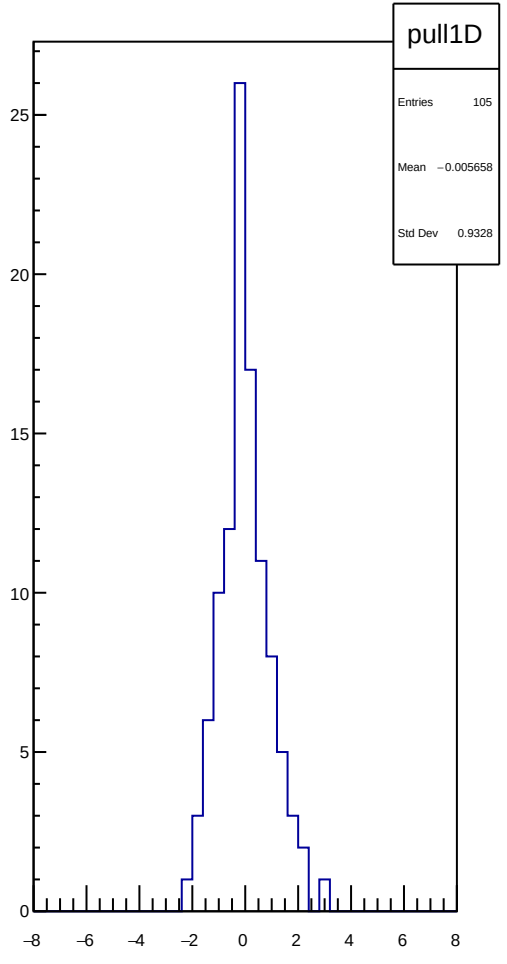

asym_atr_dd_reg_correction_rms vs run
χ² / ndf 5.81e+05 / 104
p0 872.9 ± 0.7211
8000
7000
6000
5000
4000
3000
2000
1000

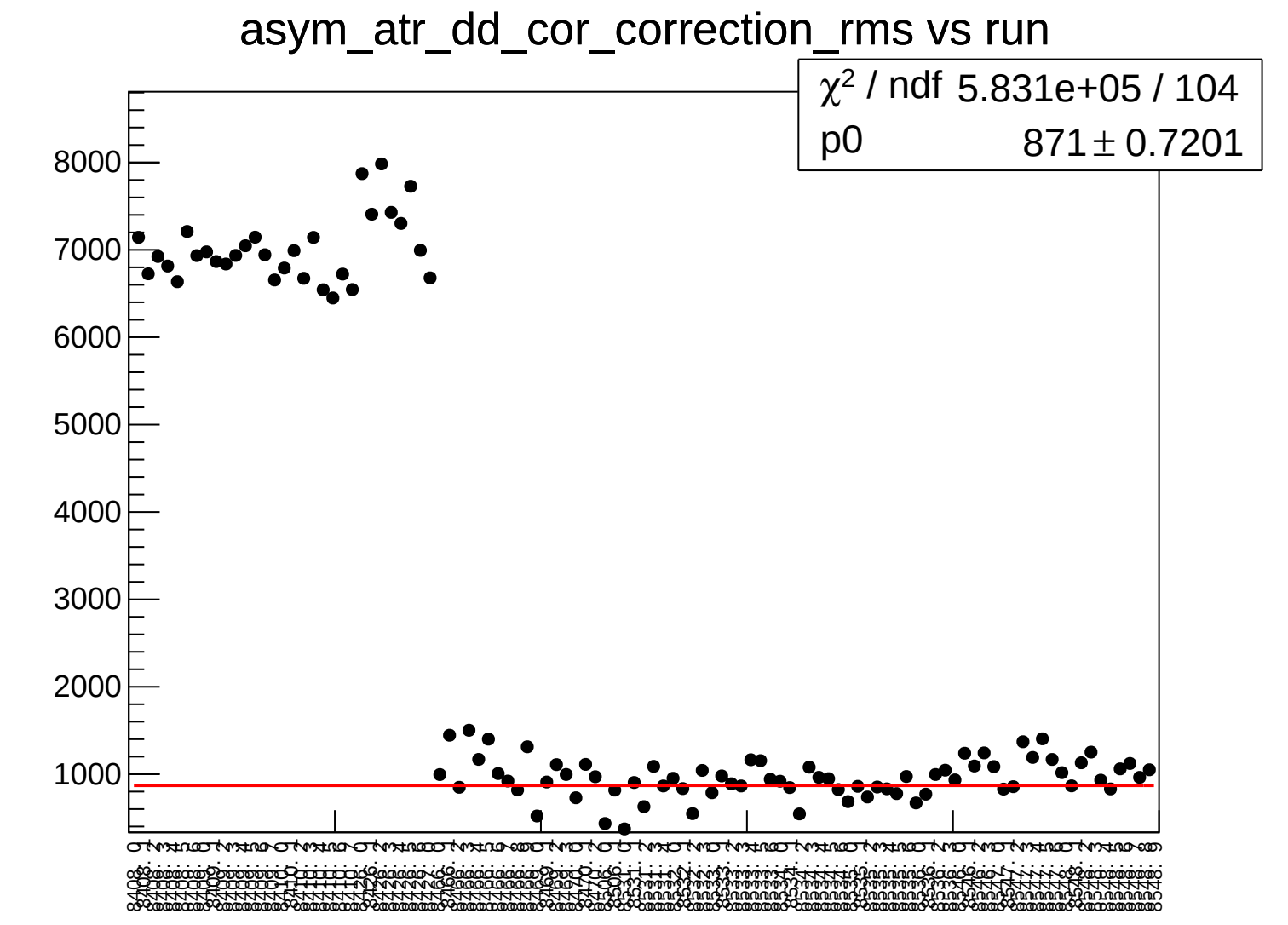

cor_asym_atr_dd_mean vs run
×10^3
χ^2 / ndf 81.76 / 104
p0 −1024 ± 3503
600
400
200
0
−200
−400
−600
−800
pull
Entries 105
Mean 109
Std Dev 0
3
2
1
0
−1
−2

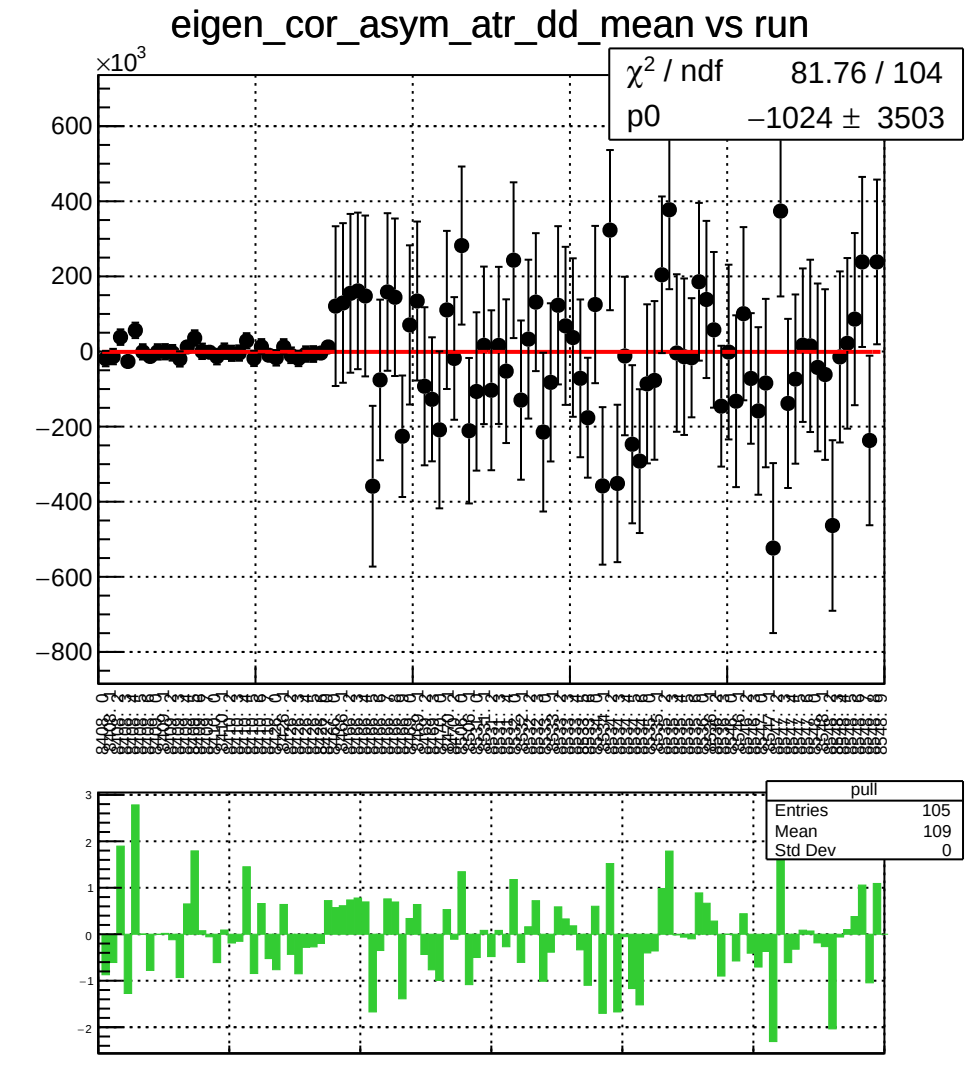

pull1D
Entries 105
Mean −0.04419
Std Dev 0.8813
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

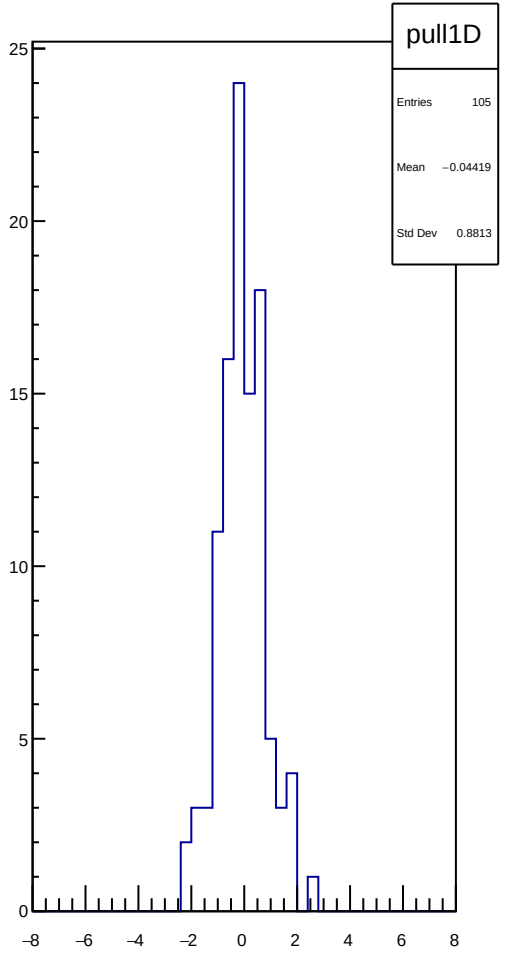

cor_asym_atr_dd_rms vs run
χ² / ndf 1.156e+06 / 104
p0 2337 ± 2.477
24000
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000

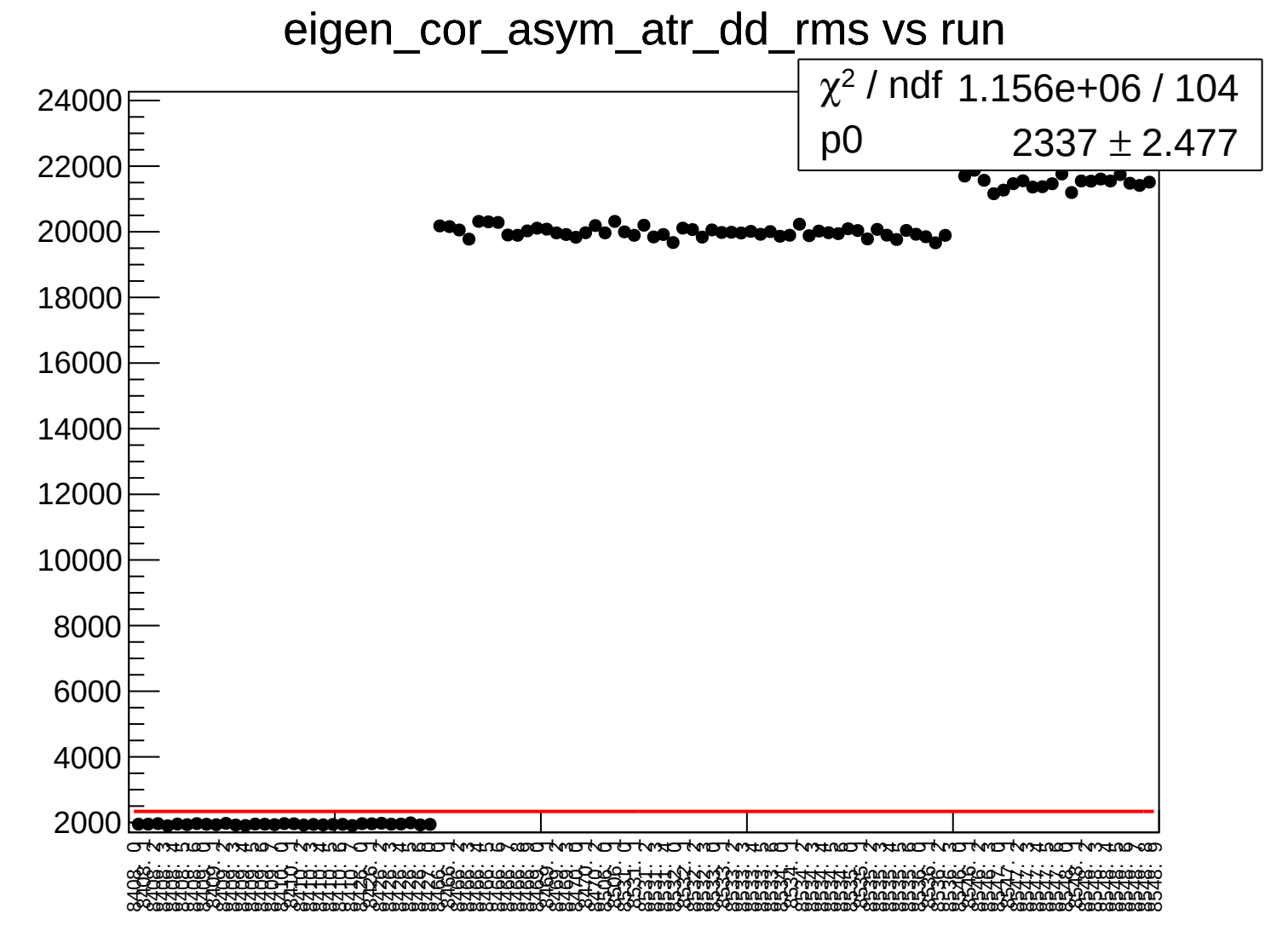

asym_atr_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 91.37 / 104
p0 −2411 ± 1018
200
100
0
−100
−200
pull
Entries 105
Mean 449.8
Std Dev 0
3
2
1
0
−1
−2

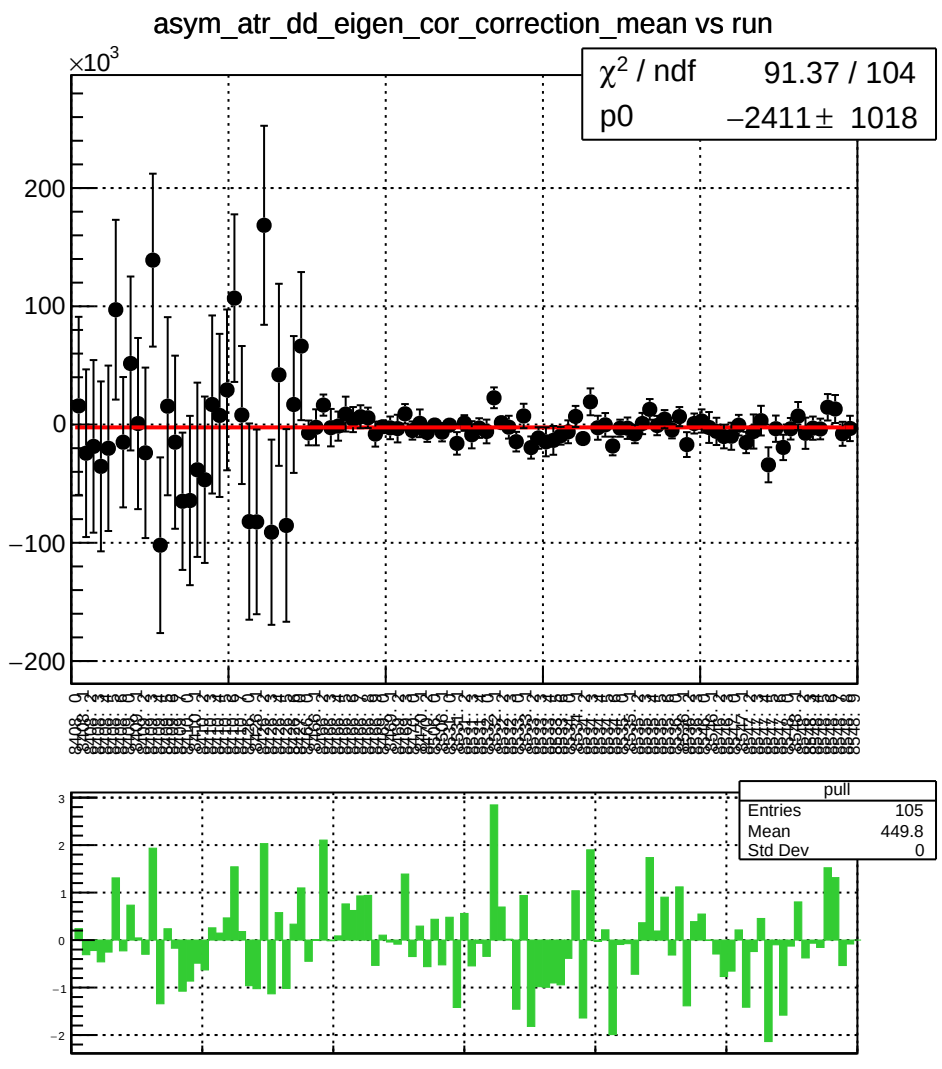

pull1D
Entries 105
Mean −0.005658
Std Dev 0.9328
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

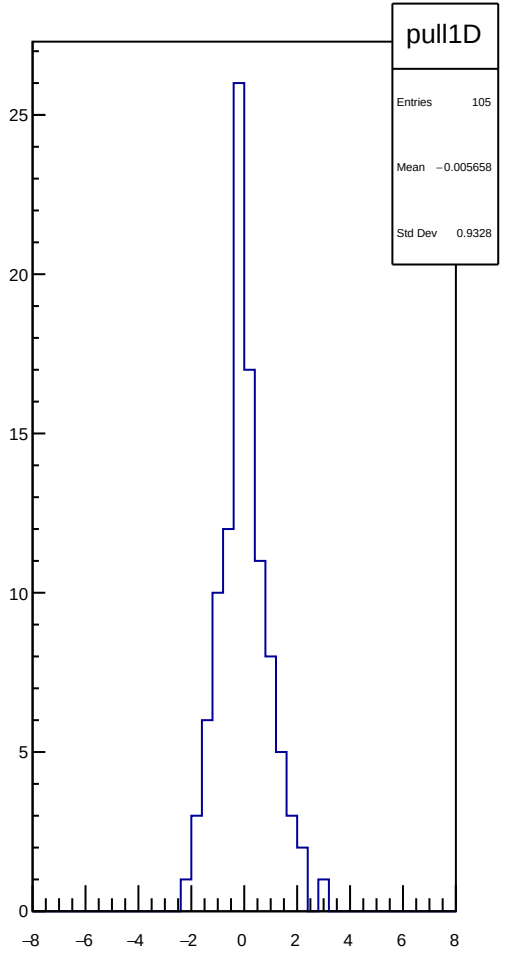

asym_atr_dd_cor_correction_rms vs run
χ² / ndf 5.831e+05 / 104
p0 871 ± 0.7201
8000
7000
6000
5000
4000
3000
2000
1000


eigen_cor_asym_atr_dd_mean vs run
×10^3
χ^2 / ndf 81.76 / 104
p0 −1024 ± 3503
600
400
200
0
−200
−400
−600
−800
pull
Entries 105
Mean 109
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 105
Mean −0.04419
Std Dev 0.8813
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_atr_dd_rms vs run
χ² / ndf 1.156e+06 / 104
p0 2337 ± 2.477
24000
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000


asym_atr_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 91.37 / 104
p0 −2411 ± 1018
200
100
0
−100
−200
pull
Entries 105
Mean 449.8
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 105
Mean −0.005658
Std Dev 0.9328
25
20
15
10
5
0
−8
−6
−4
−2
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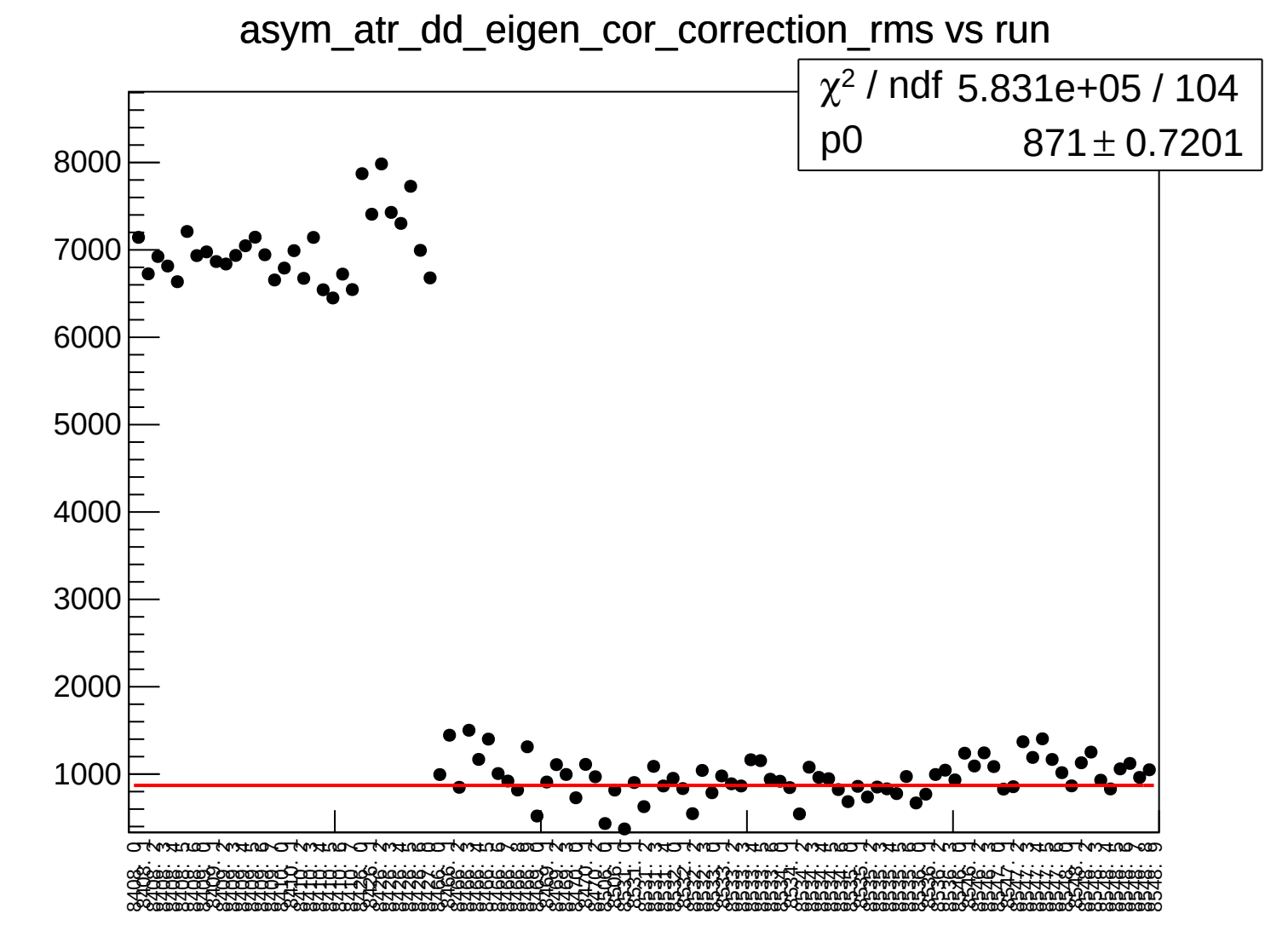
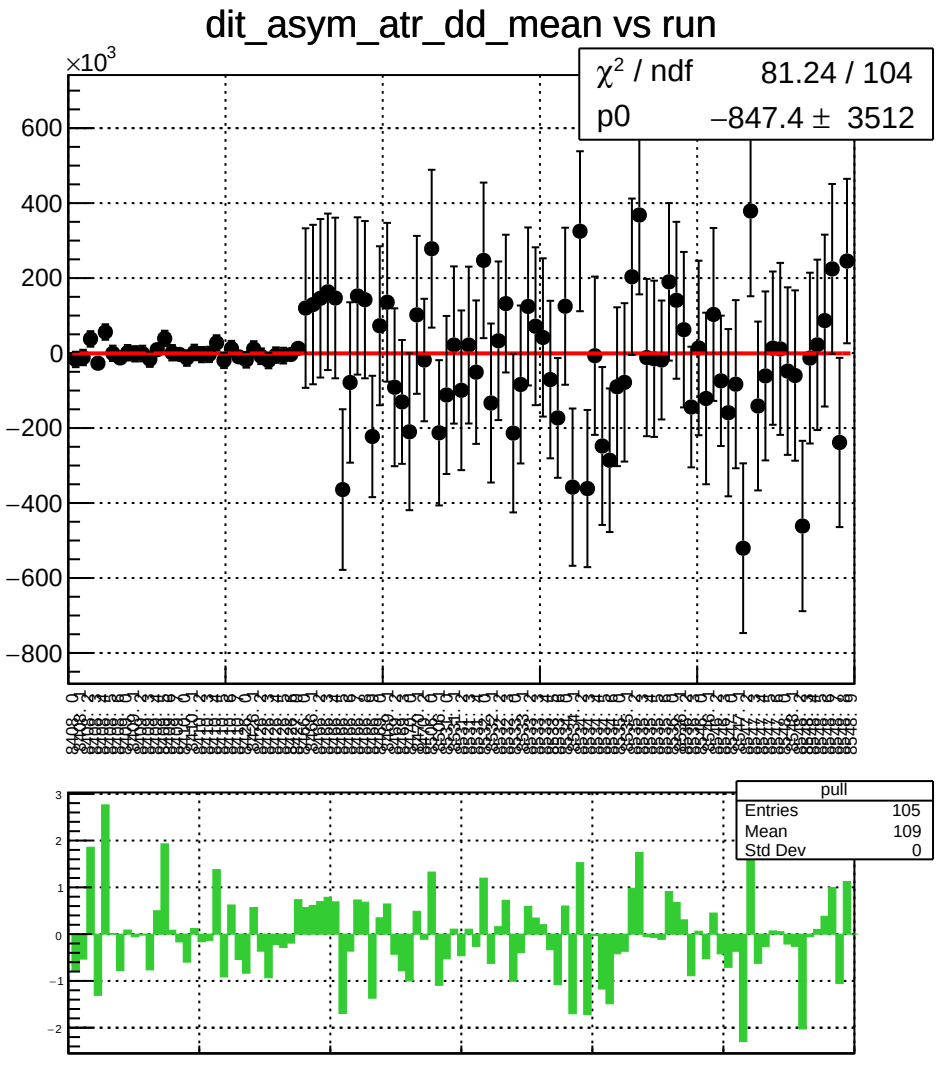
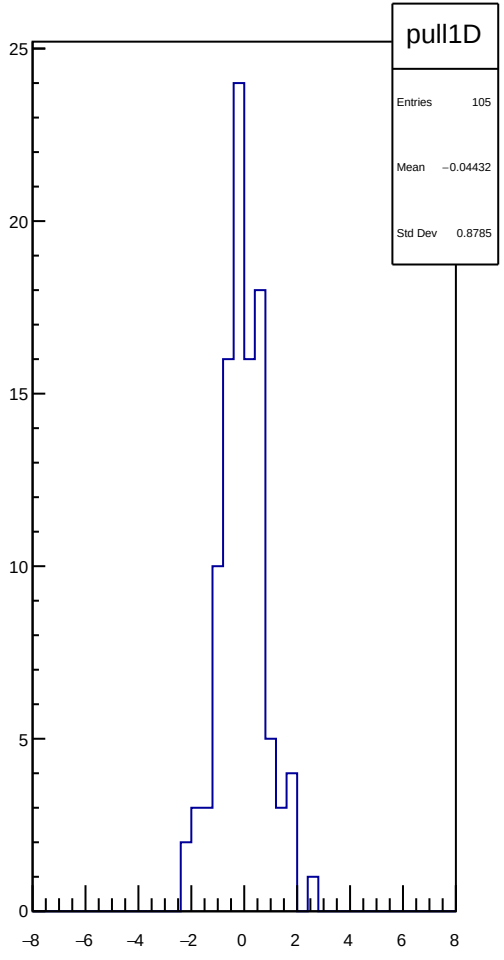
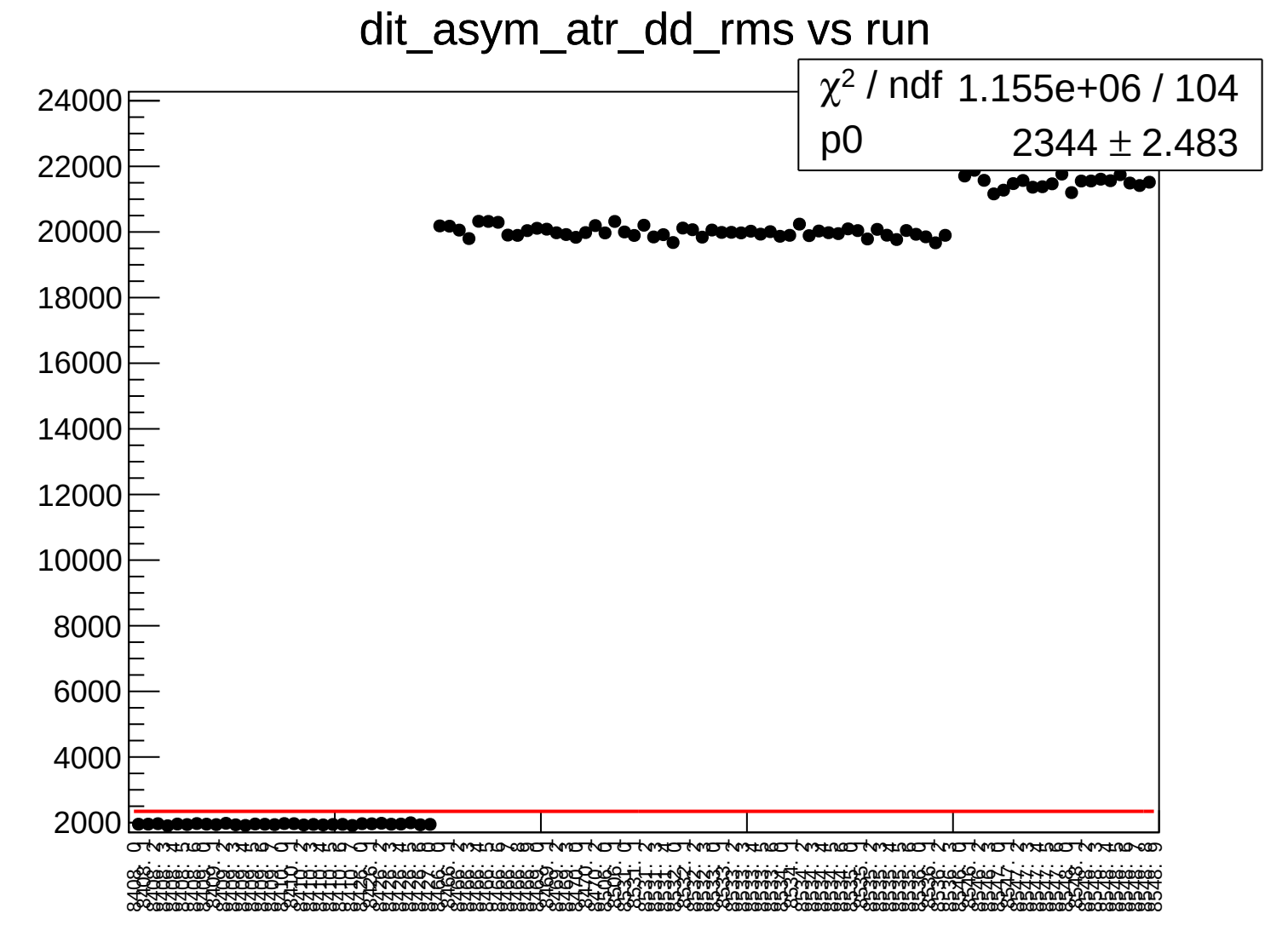
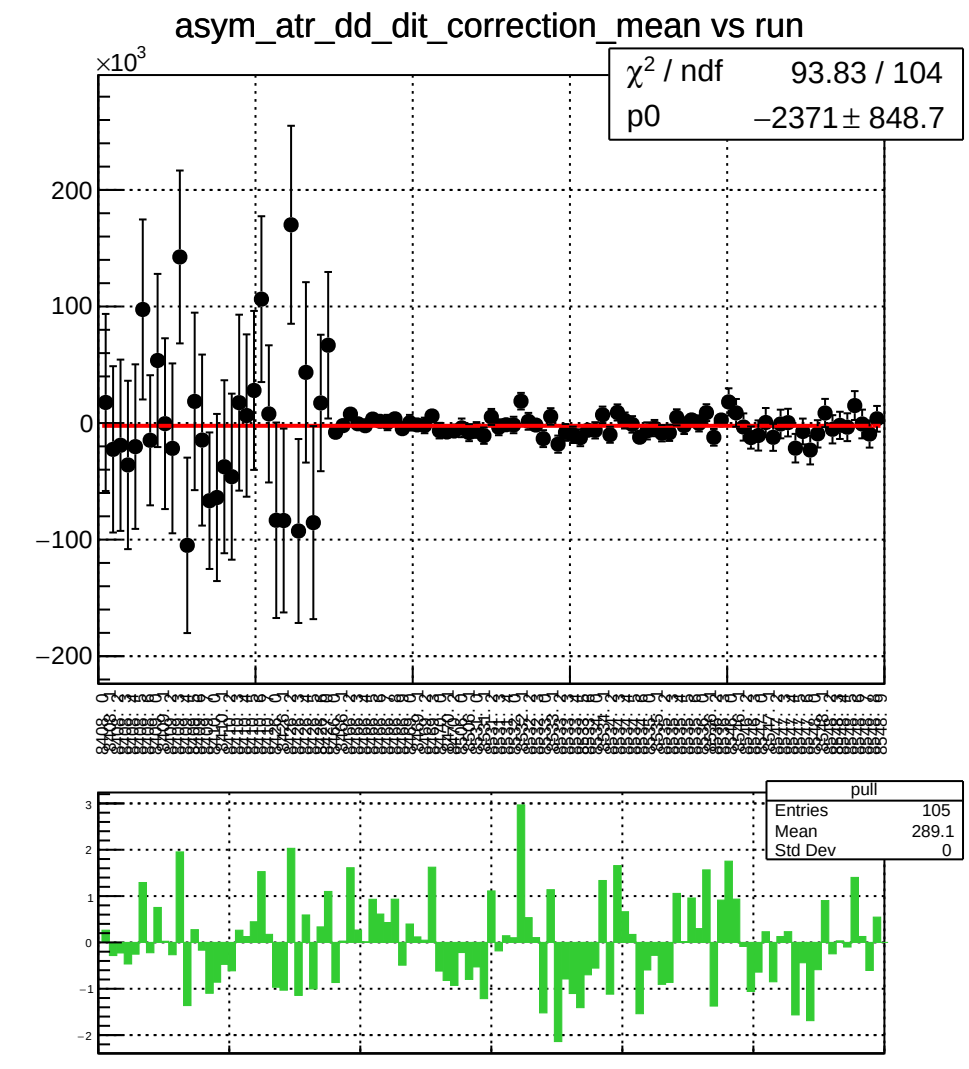
2
4
6
8

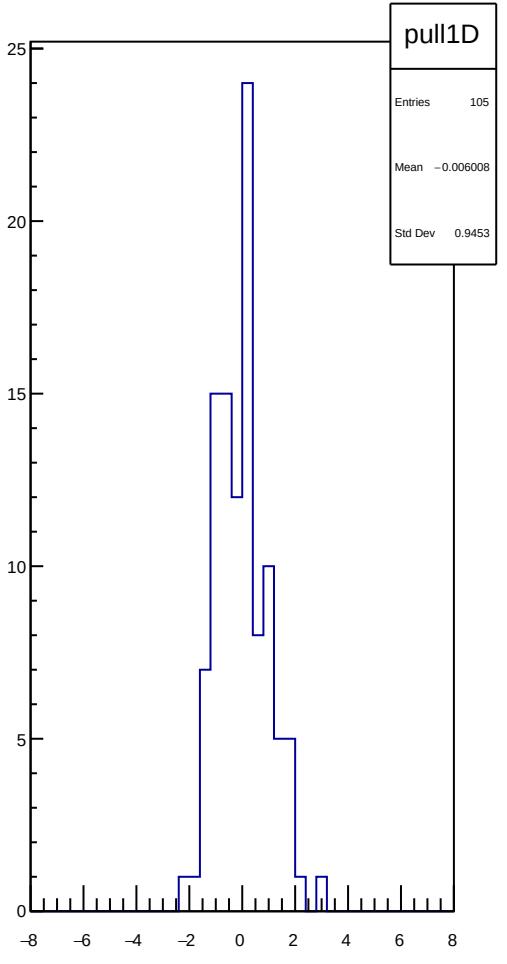

asym_atr_dd_eigen_cor_correction_rms vs run
χ^2 / ndf 5.831e+05 / 104
p0 871 ± 0.7201
8000
7000
6000
5000
4000
3000
2000
1000

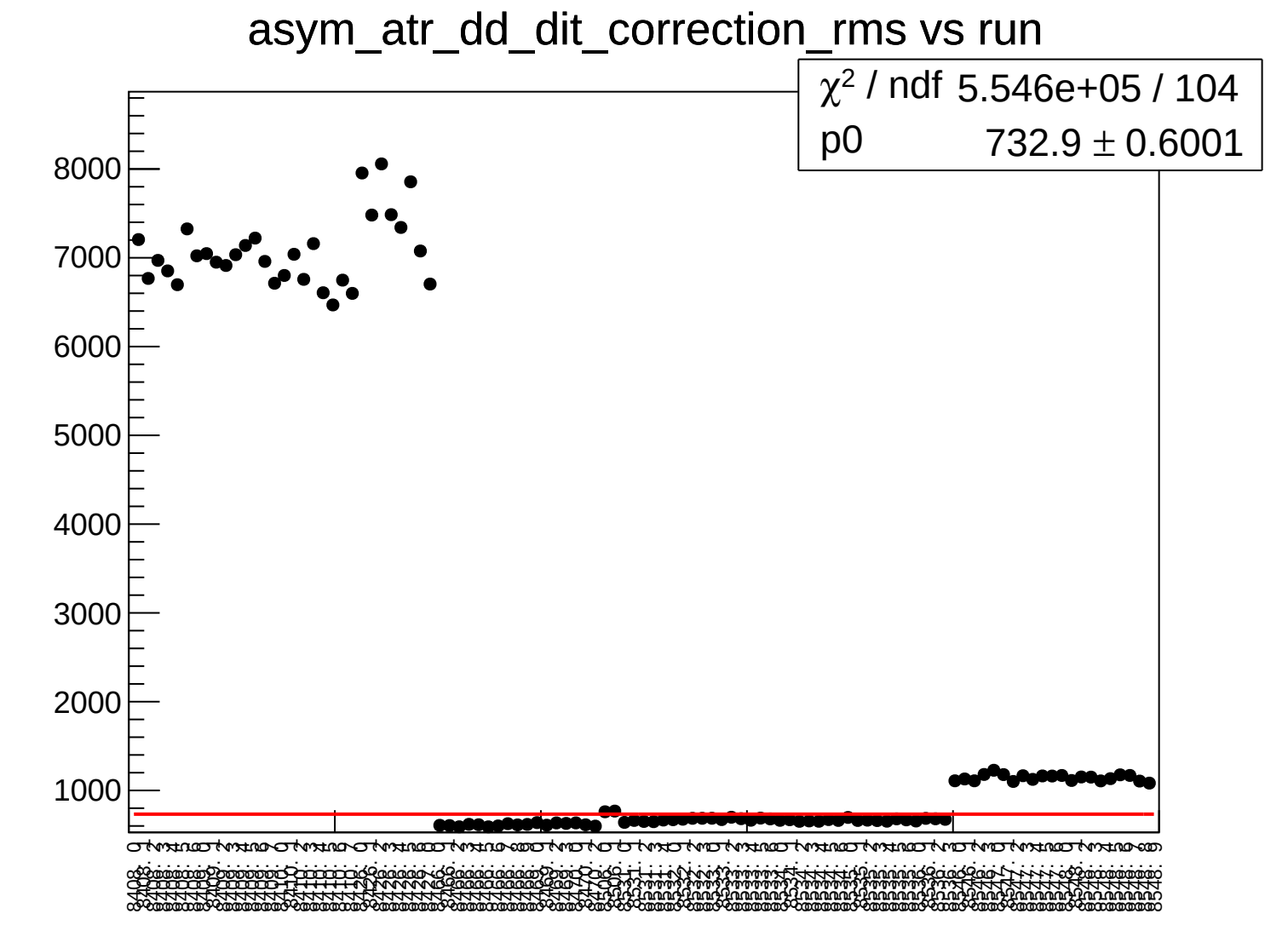

dit_asym_atr_dd_mean vs run
×10^3
χ² / ndf 81.24 / 104
p0 −847.4 ± 3512
600
400
200
0
−200
−400
−600
−800
pull
Entries 105
Mean 109
Std Dev 0
3
2
1
0
−1
−2

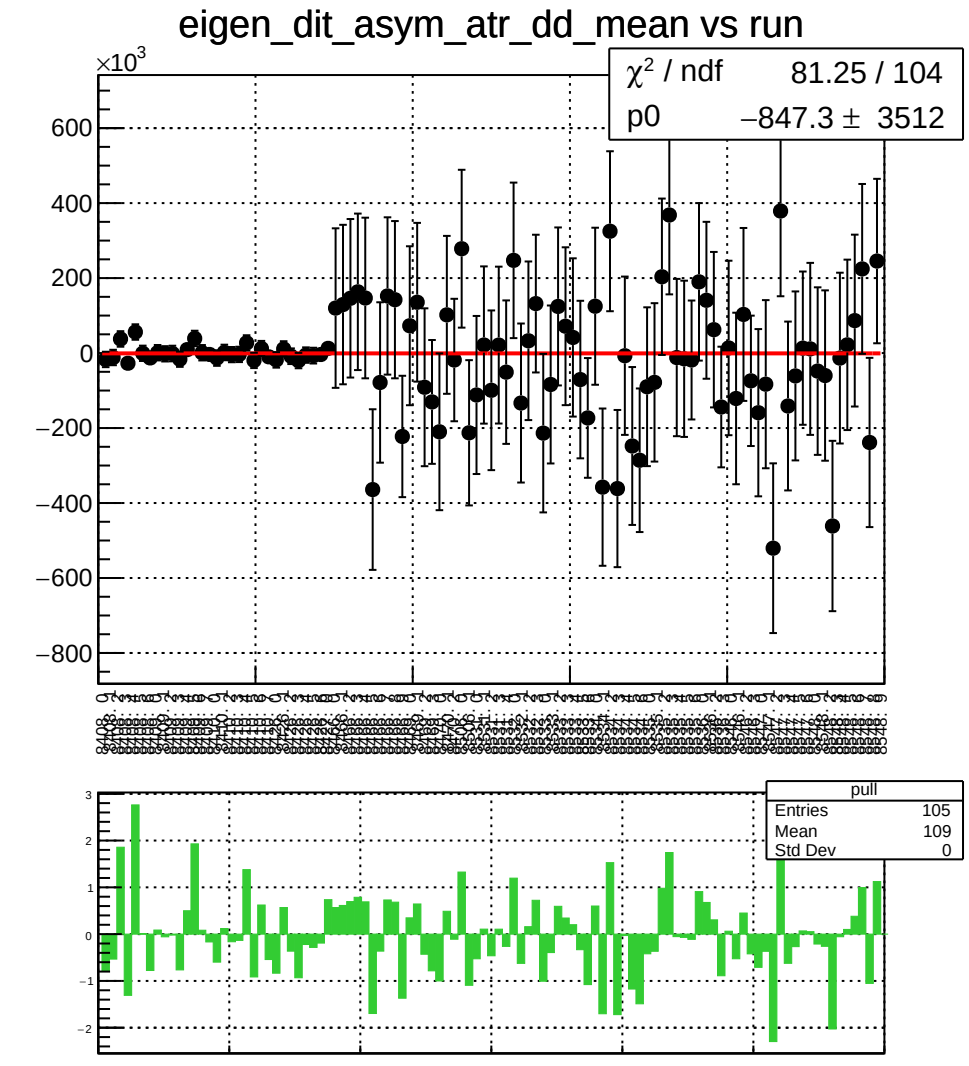

pull1D
Entries 105
Mean −0.04432
Std Dev 0.8785
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

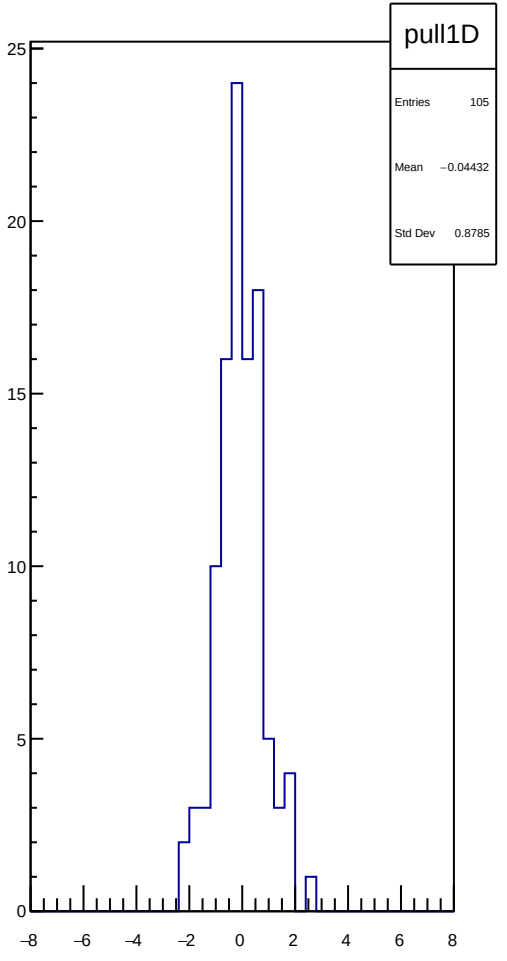

dit_asym_atr_dd_rms vs run
χ² / ndf 1.155e+06 / 104
p0 2344 ± 2.483
24000
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000

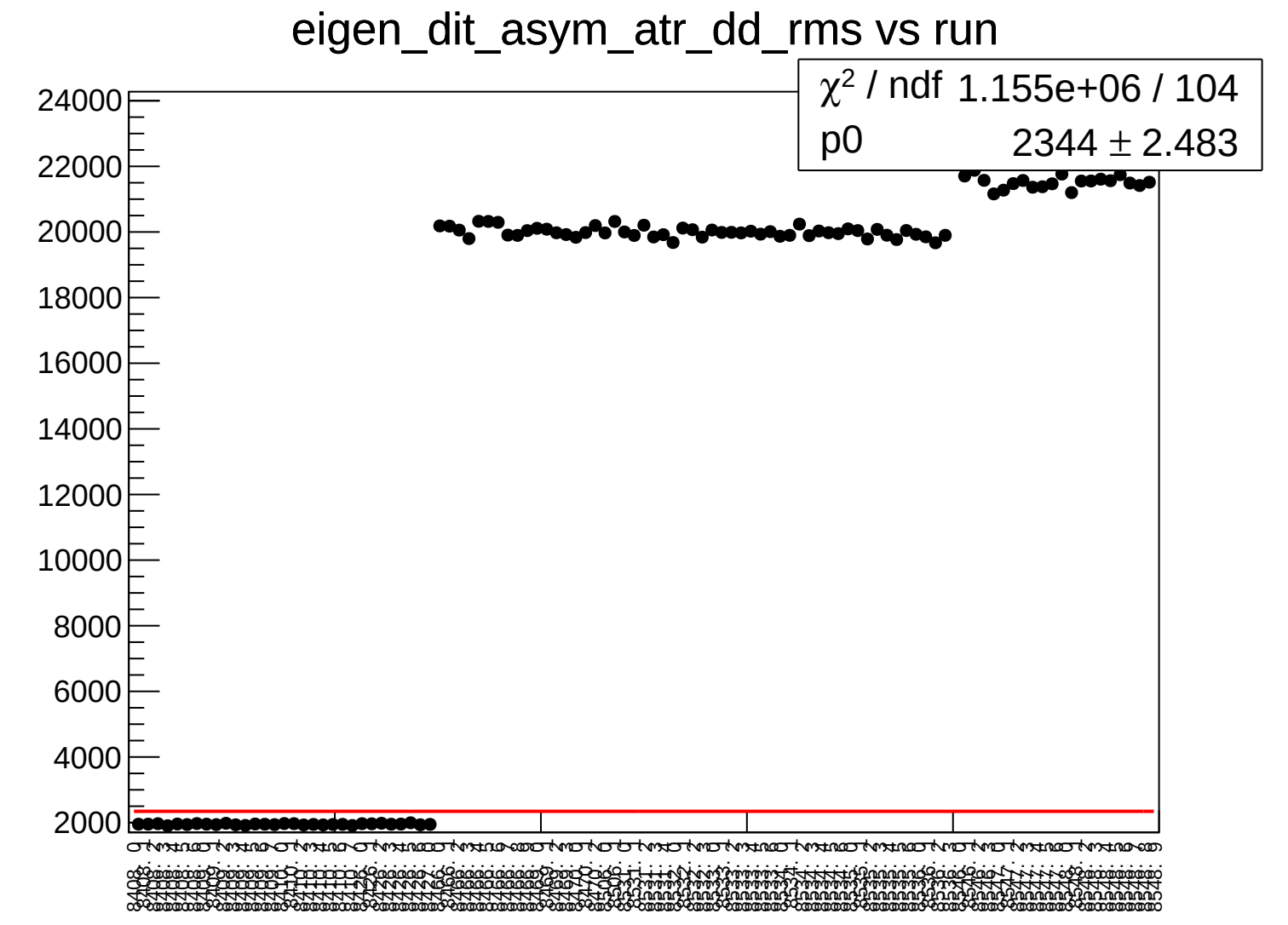

asym_atr_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 93.83 / 104
p0 −2371 ± 848.7
200
100
0
−100
−200
pull
Entries 105
Mean 289.1
Std Dev 0
3
2
1
0
−1
−2

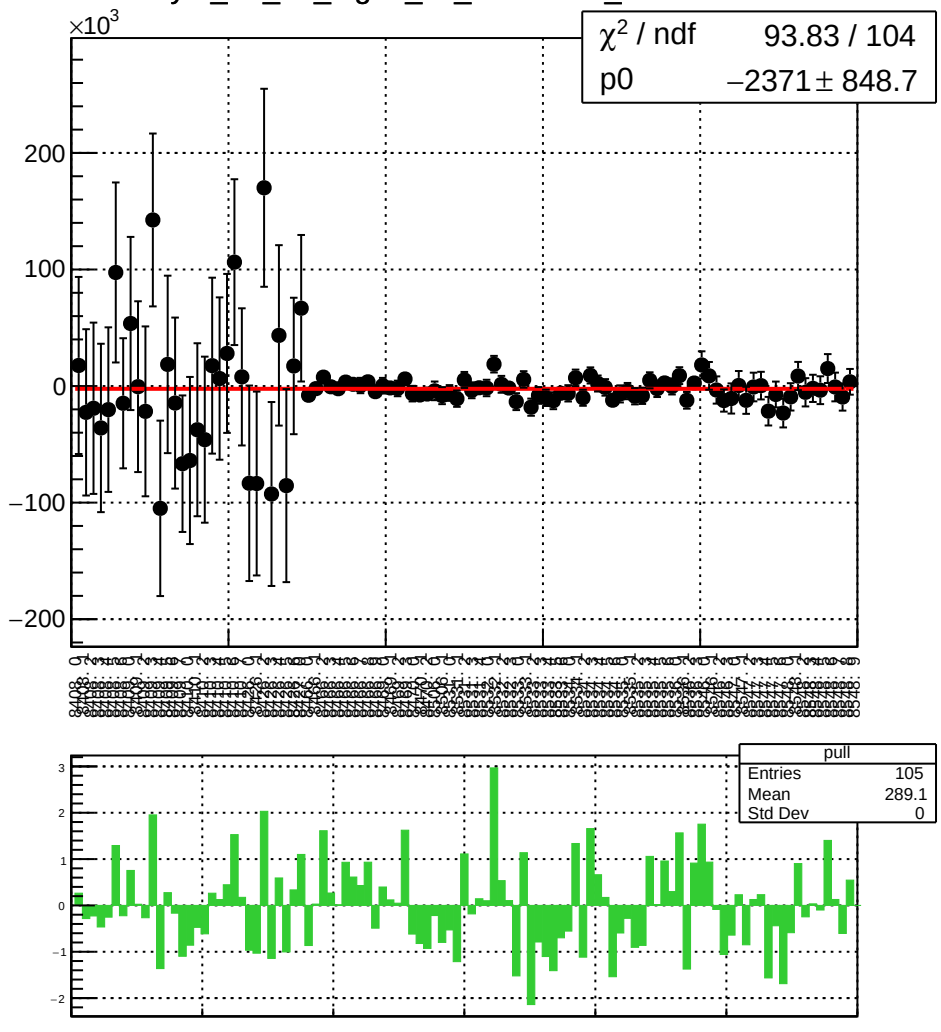

pull1D
Entries 105
Mean −0.006008
Std Dev 0.9453
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

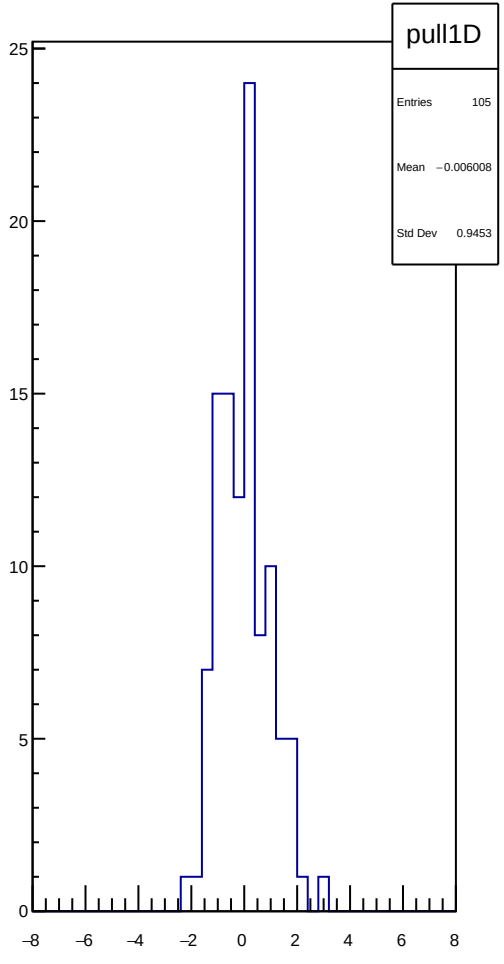

asym_atr_dd_dit_correction_rms vs run
χ² / ndf 5.546e+05 / 104
p0 732.9 ± 0.6001
8000
7000
6000
5000
4000
3000
2000
1000

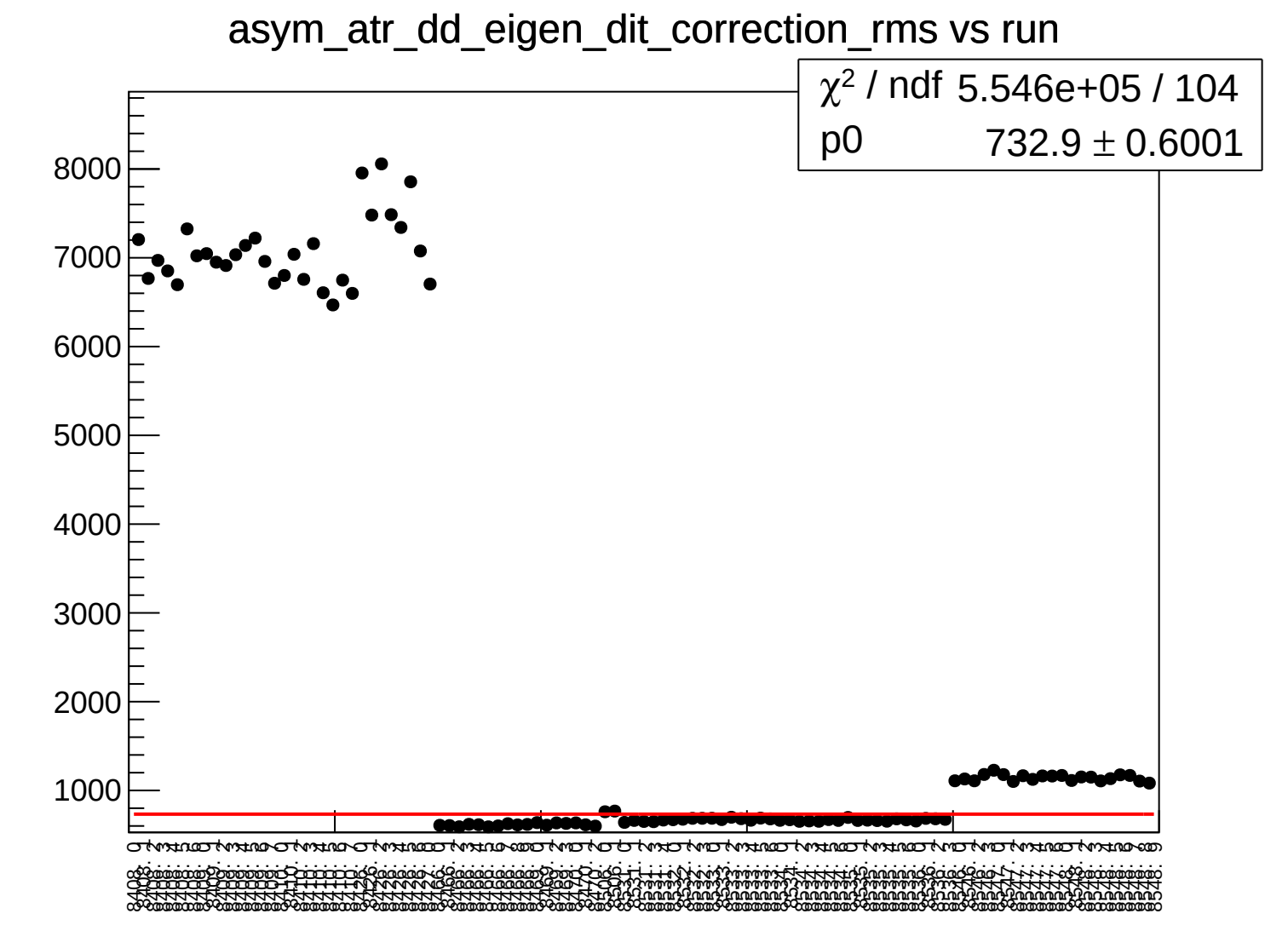

eigen_dit_asym_atr_dd_mean vs run
×10^3
χ² / ndf 81.25 / 104
p0 −847.3 ± 3512
600
400
200
0
−200
−400
−600
−800
pull
Entries 105
Mean 109
Std Dev 0
3
2
1
0
−1
−2

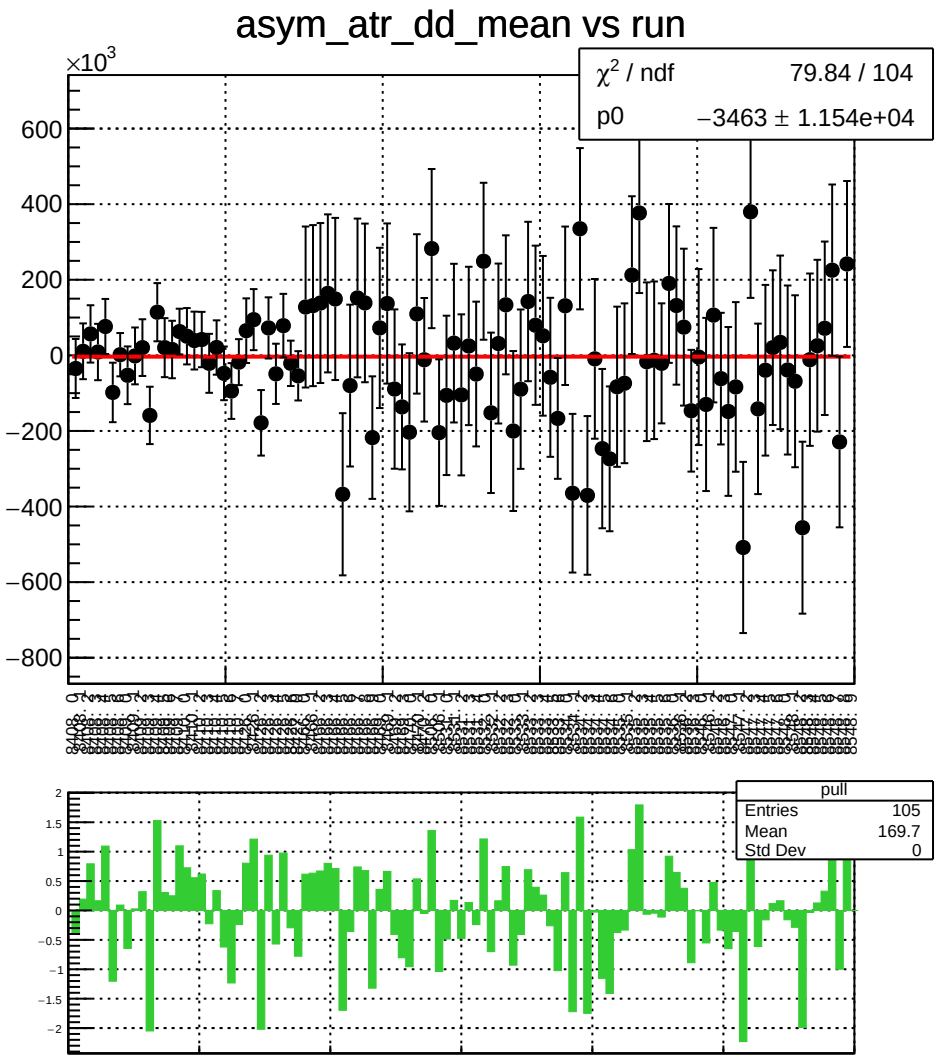

pull1D
Entries 105
Mean −0.04432
Std Dev 0.8785
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

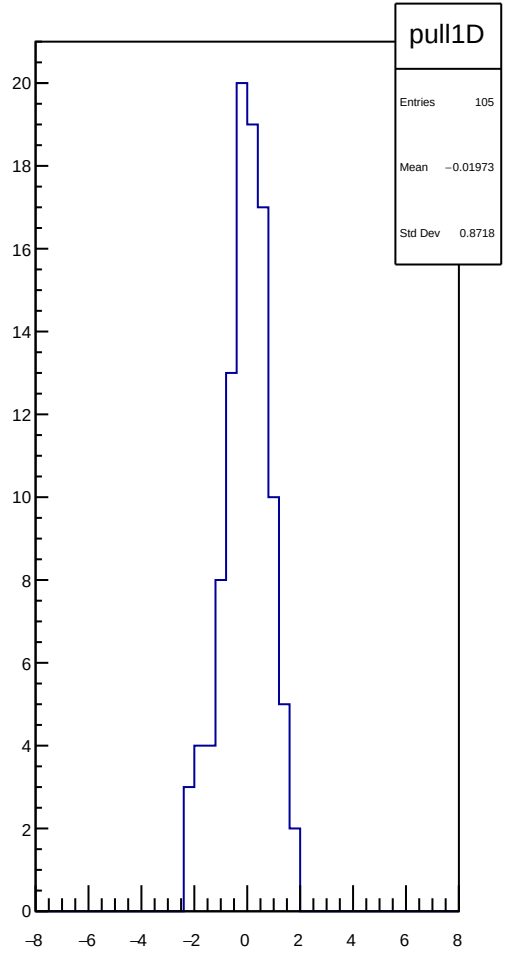

eigen_dit_asym_atr_dd_rms vs run
χ² / ndf 1.155e+06 / 104
p0 2344 ± 2.483
24000
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000

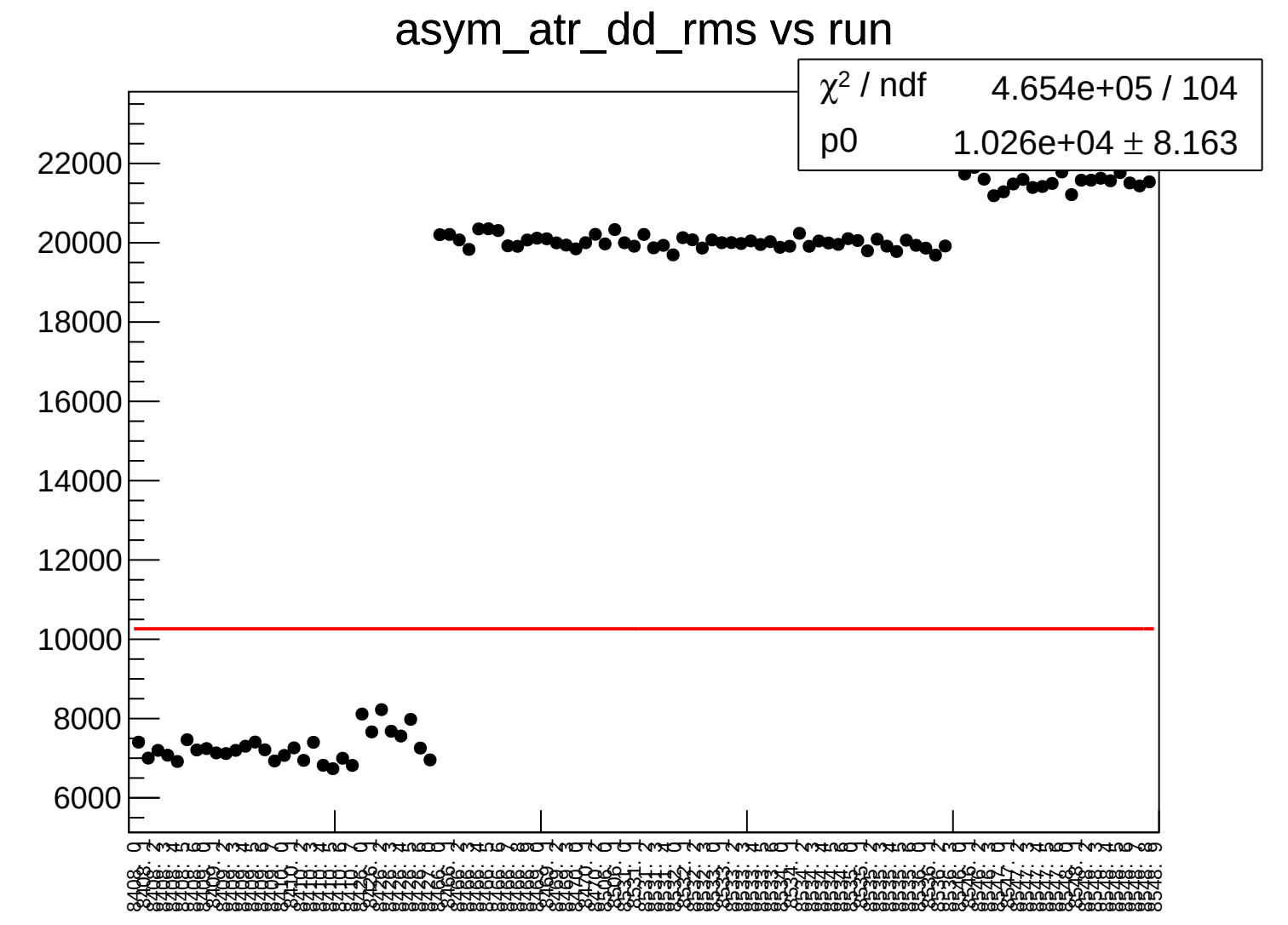

asym_atr_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 93.83 / 104
p0 −2371 ± 848.7
200
100
0
−100
−200
pull
Entries 105
Mean 289.1
Std Dev 0
3
2
1
0
−1
−2

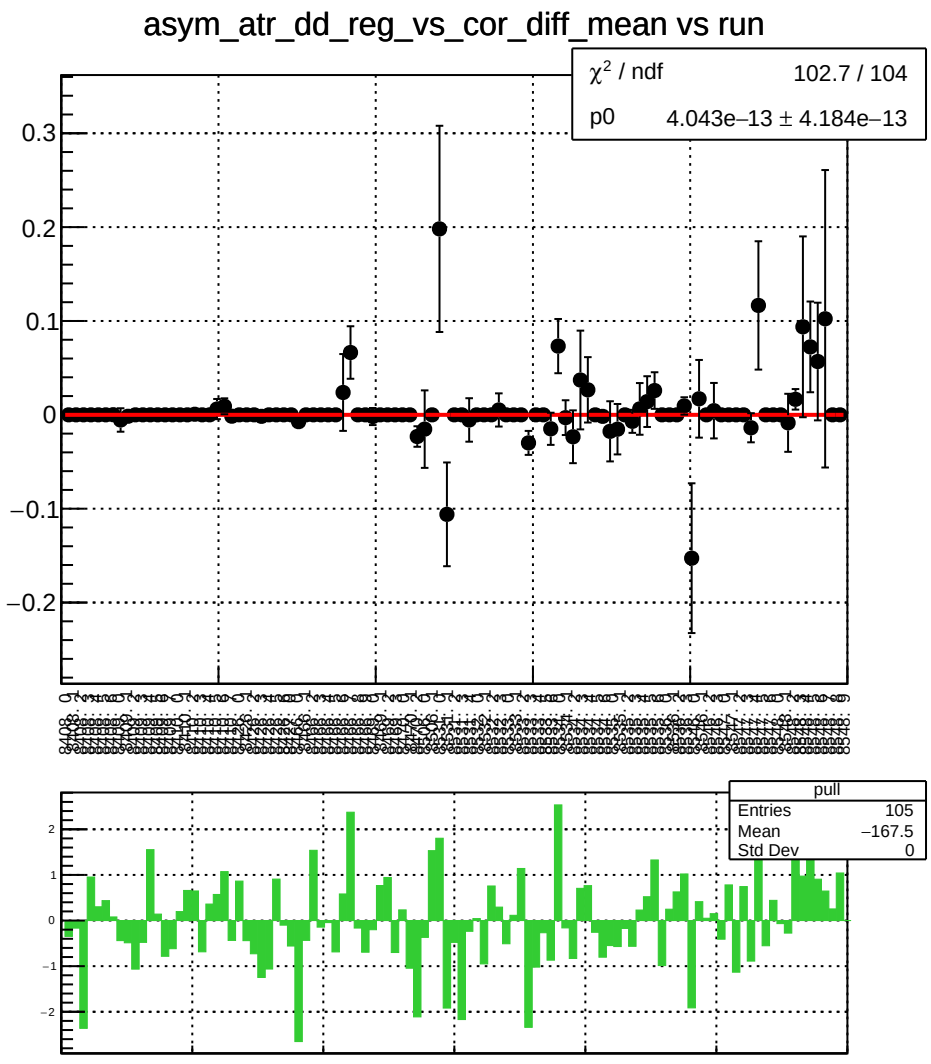

pull1D
Entries 105
Mean −0.006008
Std Dev 0.9453
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

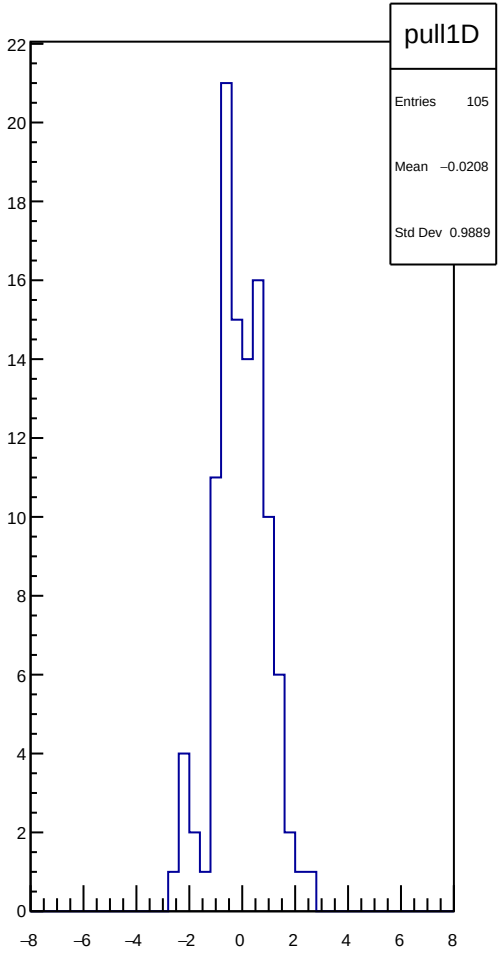

asym_atr_dd_eigen_dit_correction_rms vs run
χ² / ndf 5.546e+05 / 104
p0 732.9 ± 0.6001
8000
7000
6000
5000
4000
3000
2000
1000

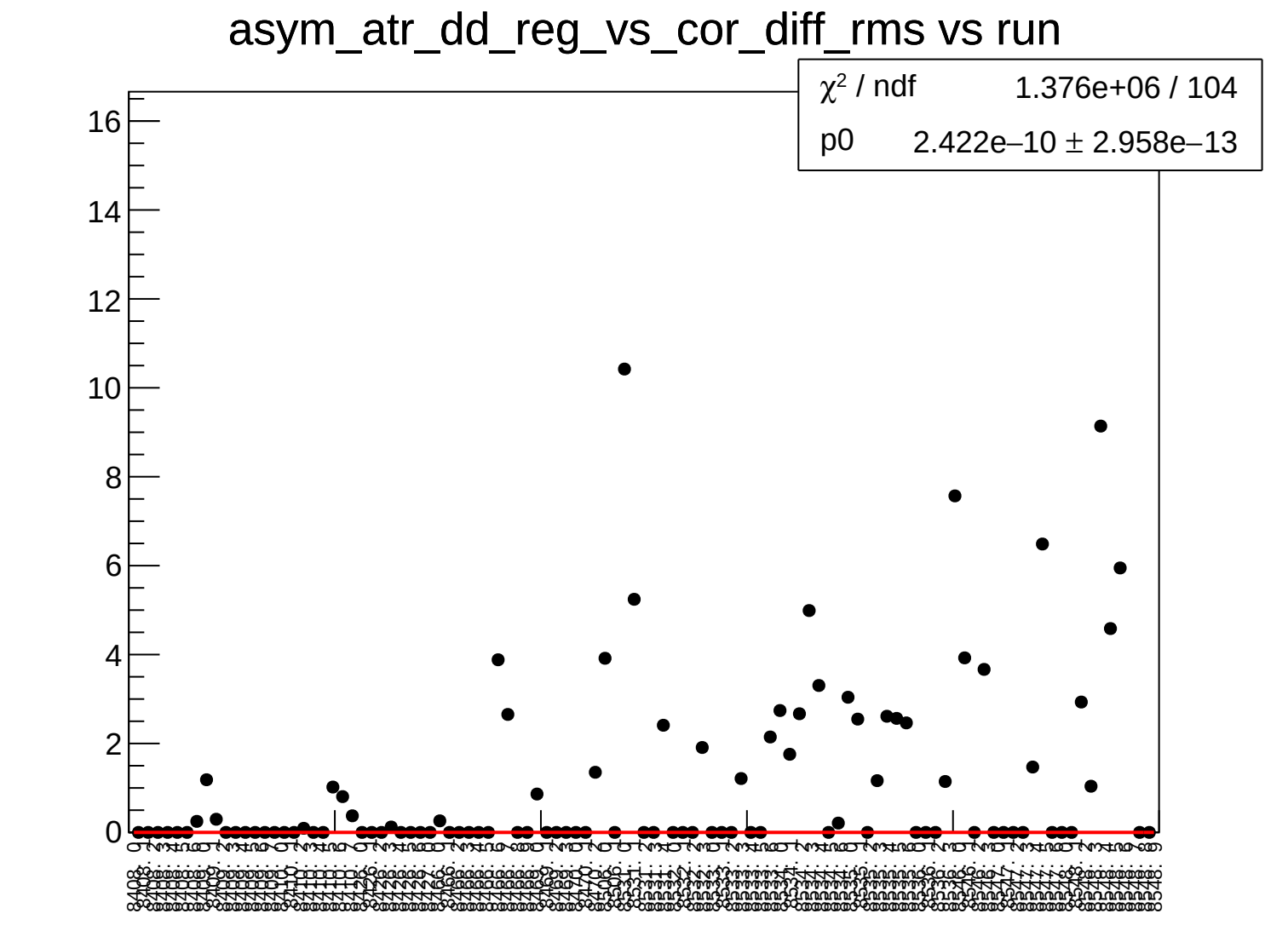

asym_atr_dd_mean vs run
×10^3
χ² / ndf 79.84 / 104
p0 −3463 ± 1.154e+04
600
400
200
0
−200
−400
−600
−800
pull
Entries 105
Mean 169.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

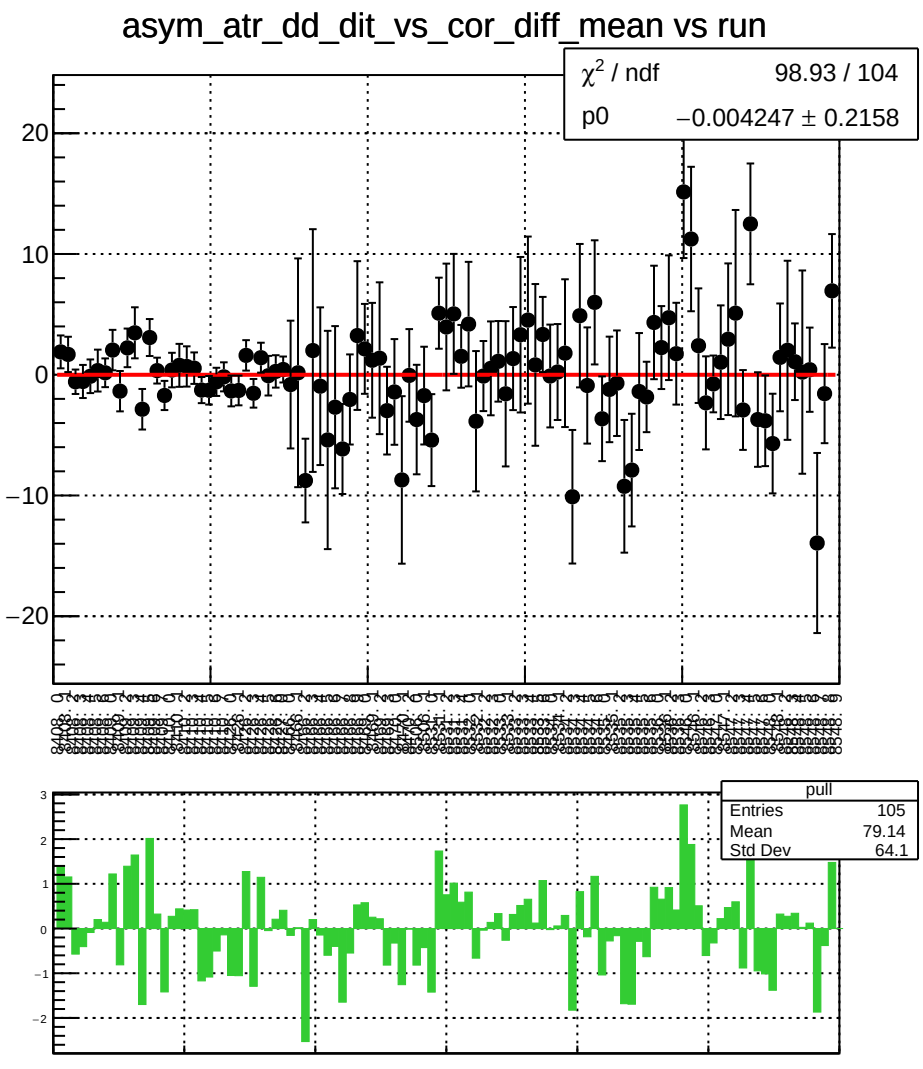

pull1D
Entries 105
Mean −0.01973
Std Dev 0.8718
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

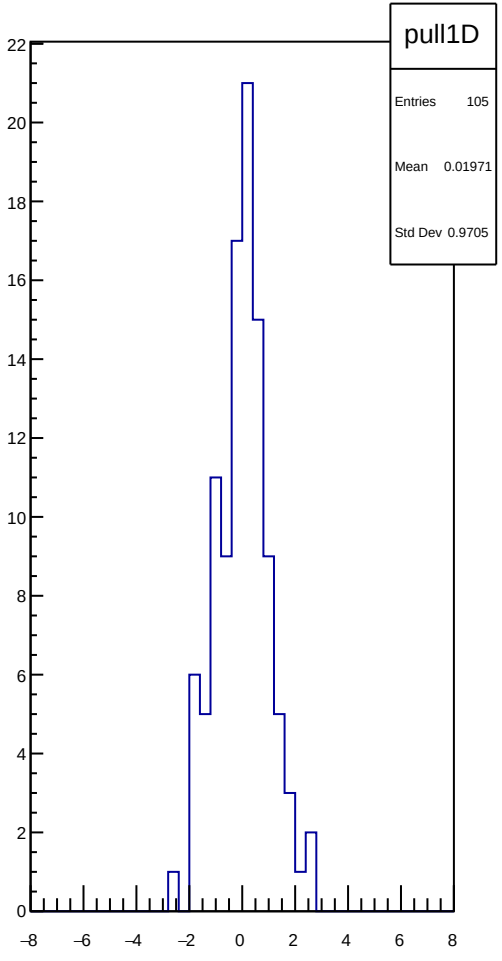

asym_atr_dd_rms vs run
χ² / ndf 4.654e+05 / 104
p0 1.026e+04 ± 8.163
22000
20000
18000
16000
14000
12000
10000
8000
6000

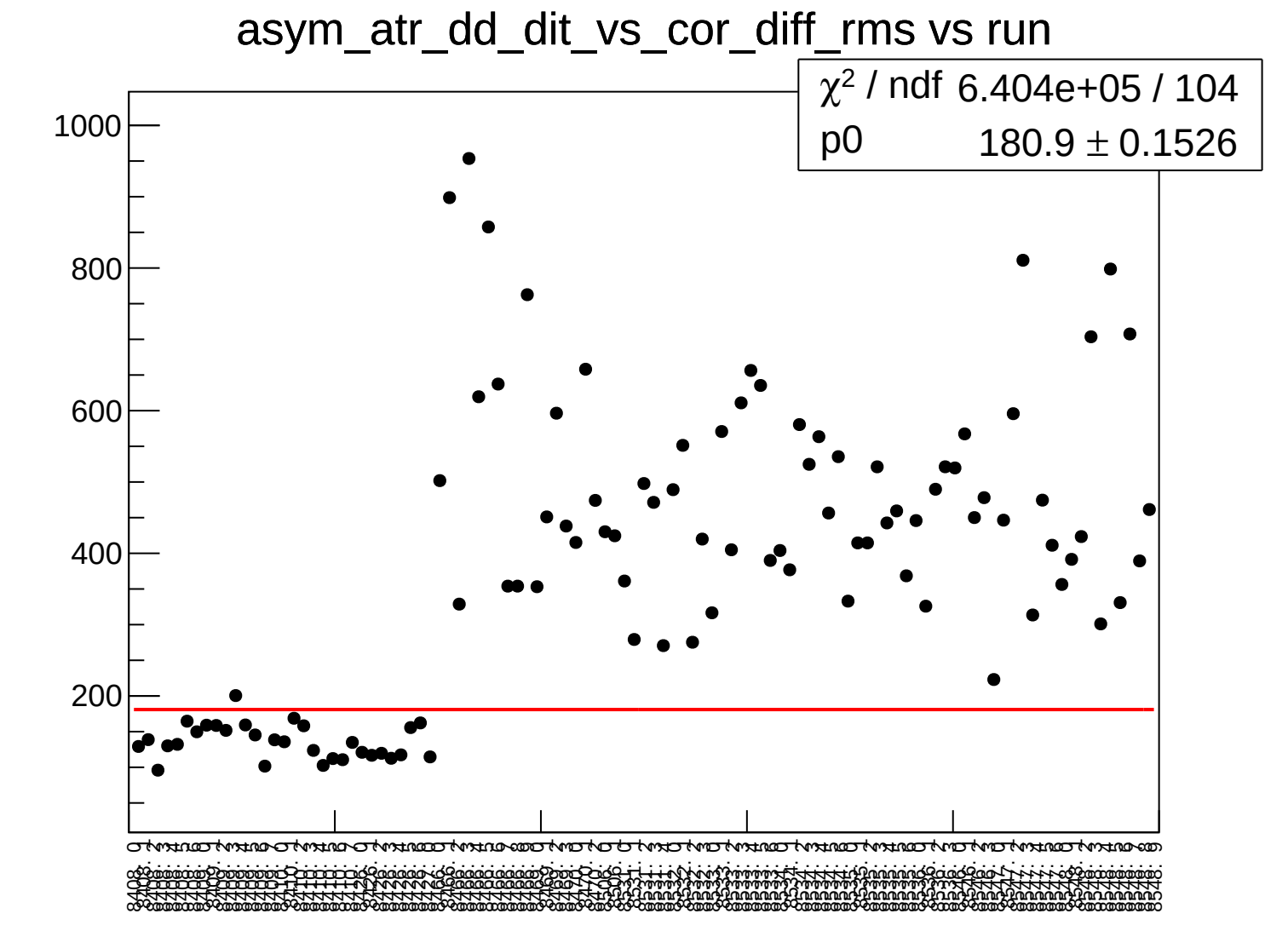

asym_atr_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 102.7 / 104
p0 4.043e−13 ± 4.184e−13
0.3
0.2
0.1
0
−0.1
−0.2
pull
Entries 105
Mean −167.5
Std Dev 0
2
1
0
−1
−2

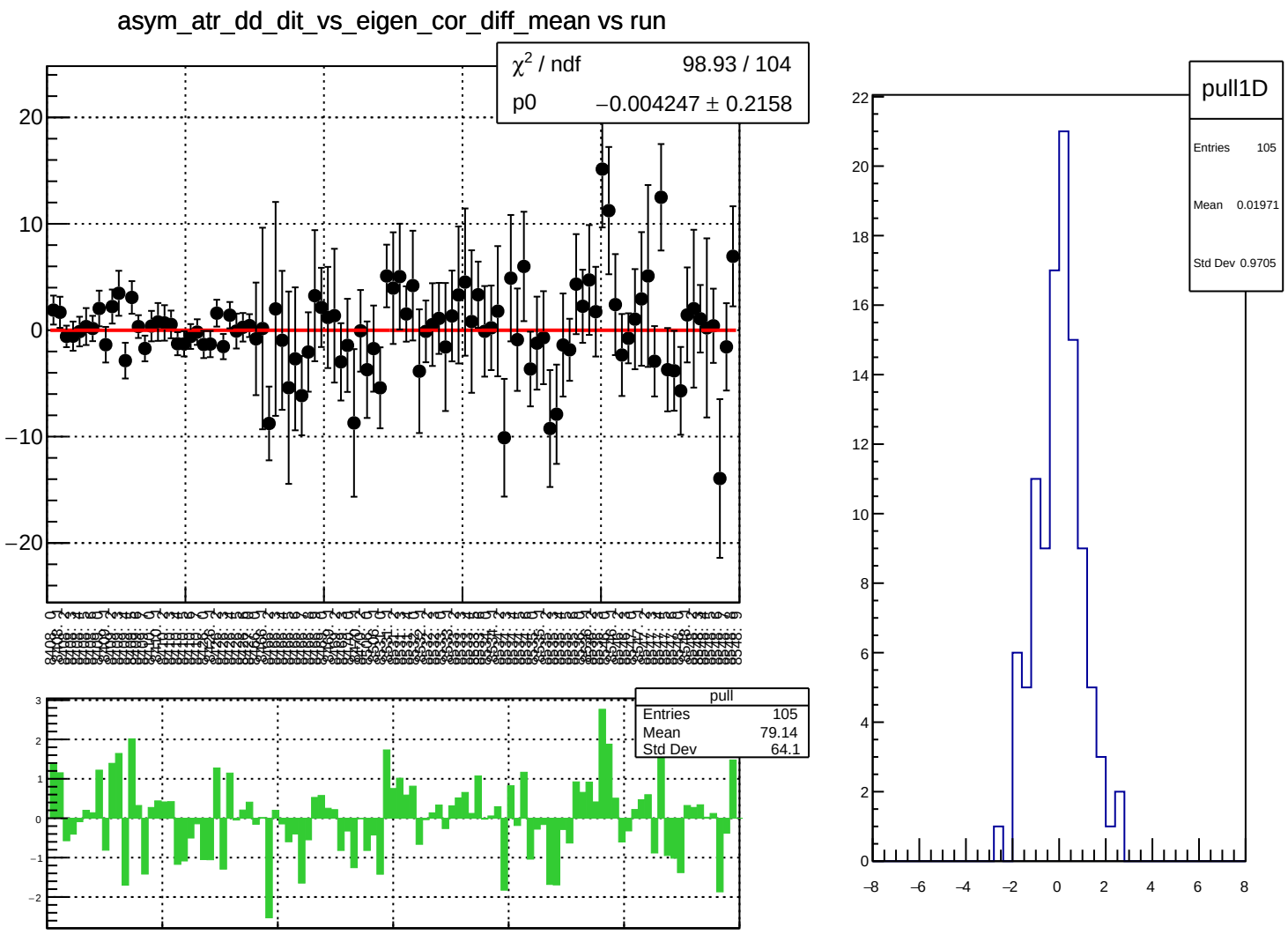

pull1D
Entries 105
Mean −0.0208
Std Dev 0.9889
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

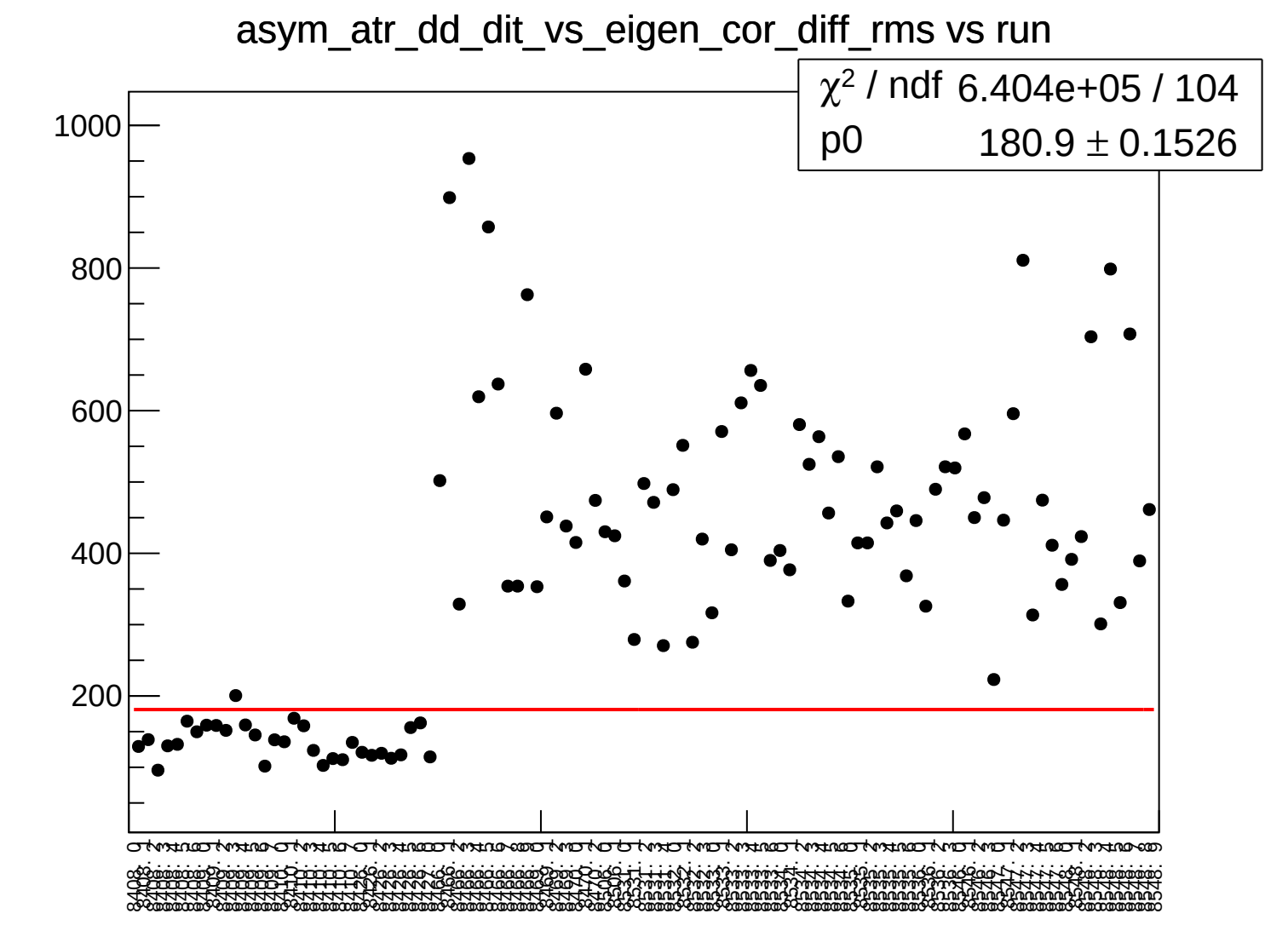

asym_atr_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.376e+06 / 104
p0 2.422e−10 ± 2.958e−13
16
14
12
10
8
6
4
2
0

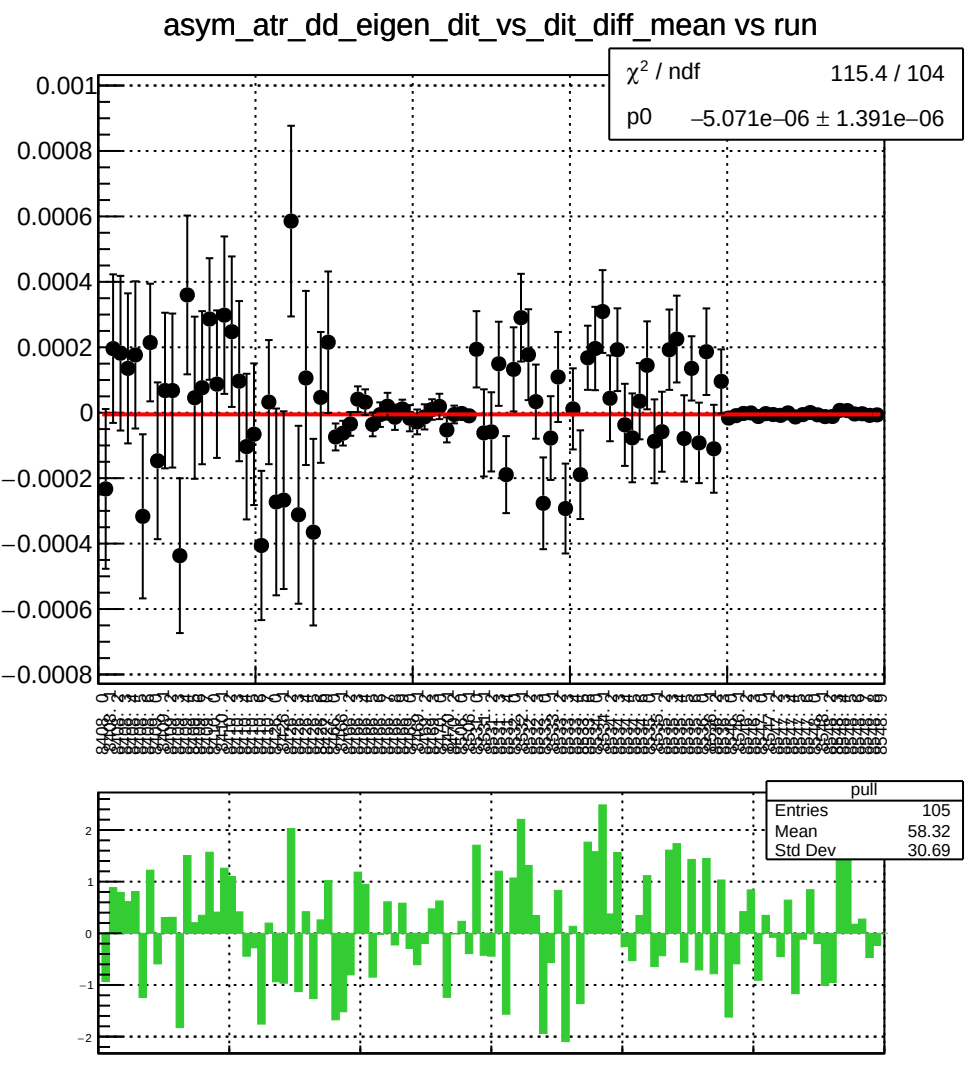

asym_atr_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 98.93 / 104
p0 −0.004247 ± 0.2158
pull
Entries 105
Mean 79.14
Std Dev 64.1

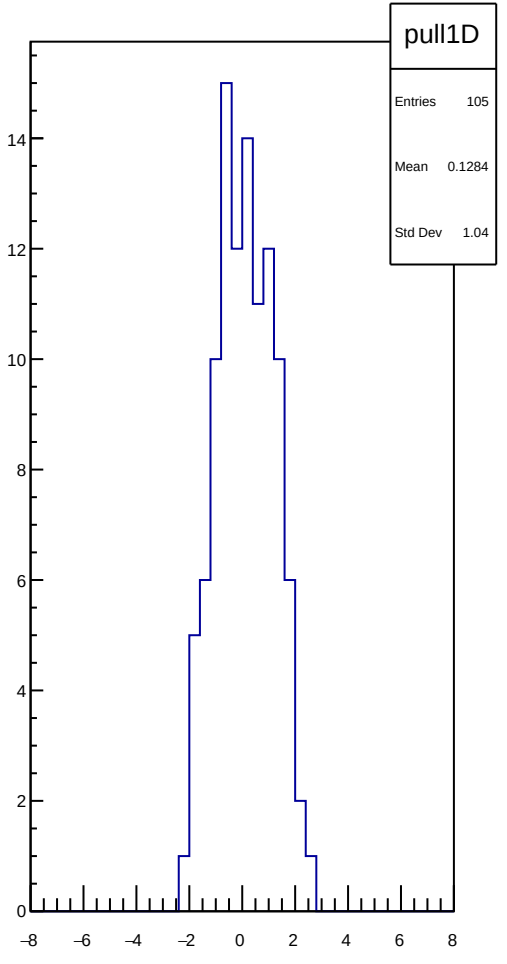

pull1D
Entries 105
Mean 0.01971
Std Dev 0.9705

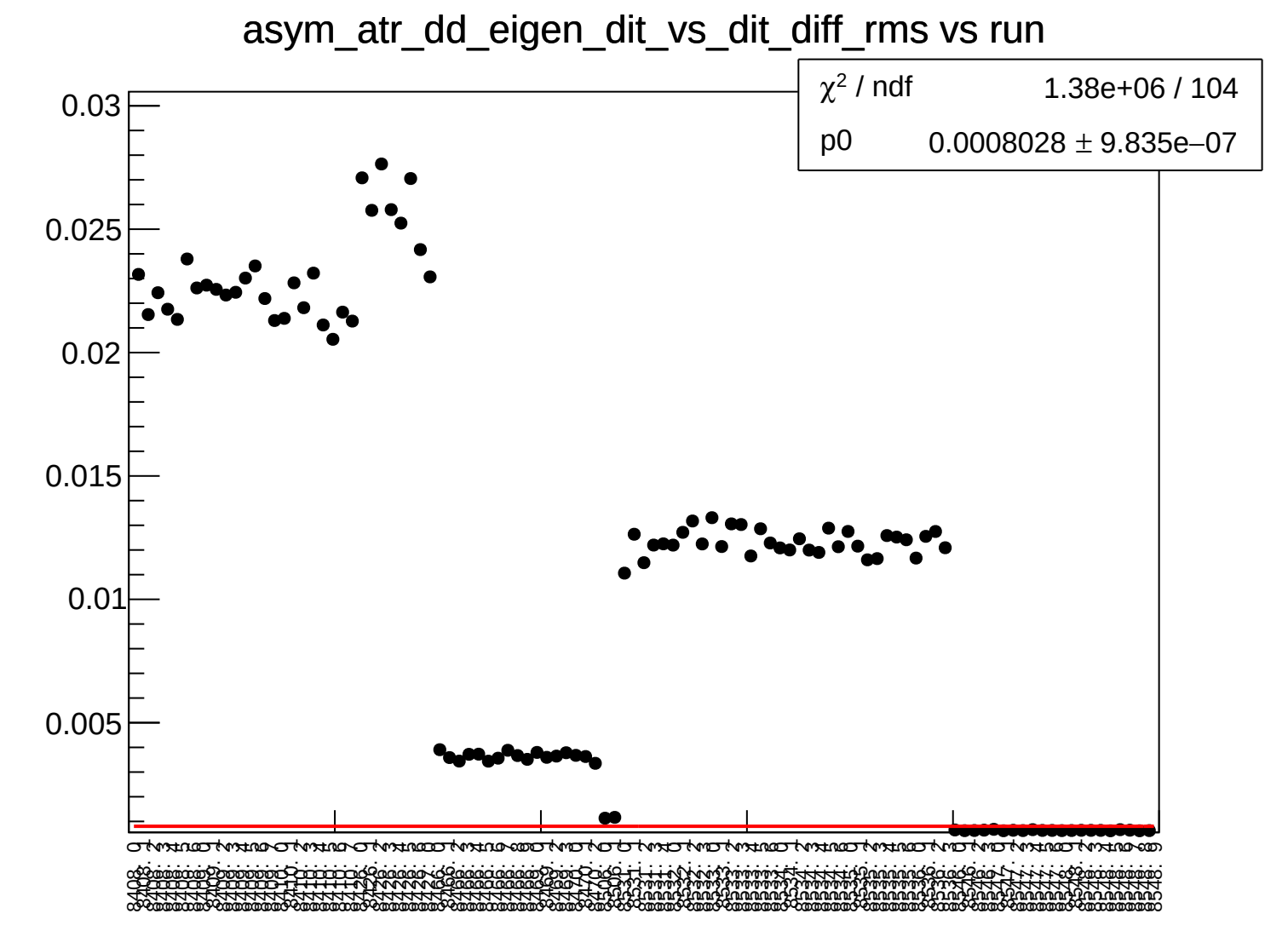

asym_atr_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.404e+05 / 104
p0 180.9 ± 0.1526
1000
800
600
400
200

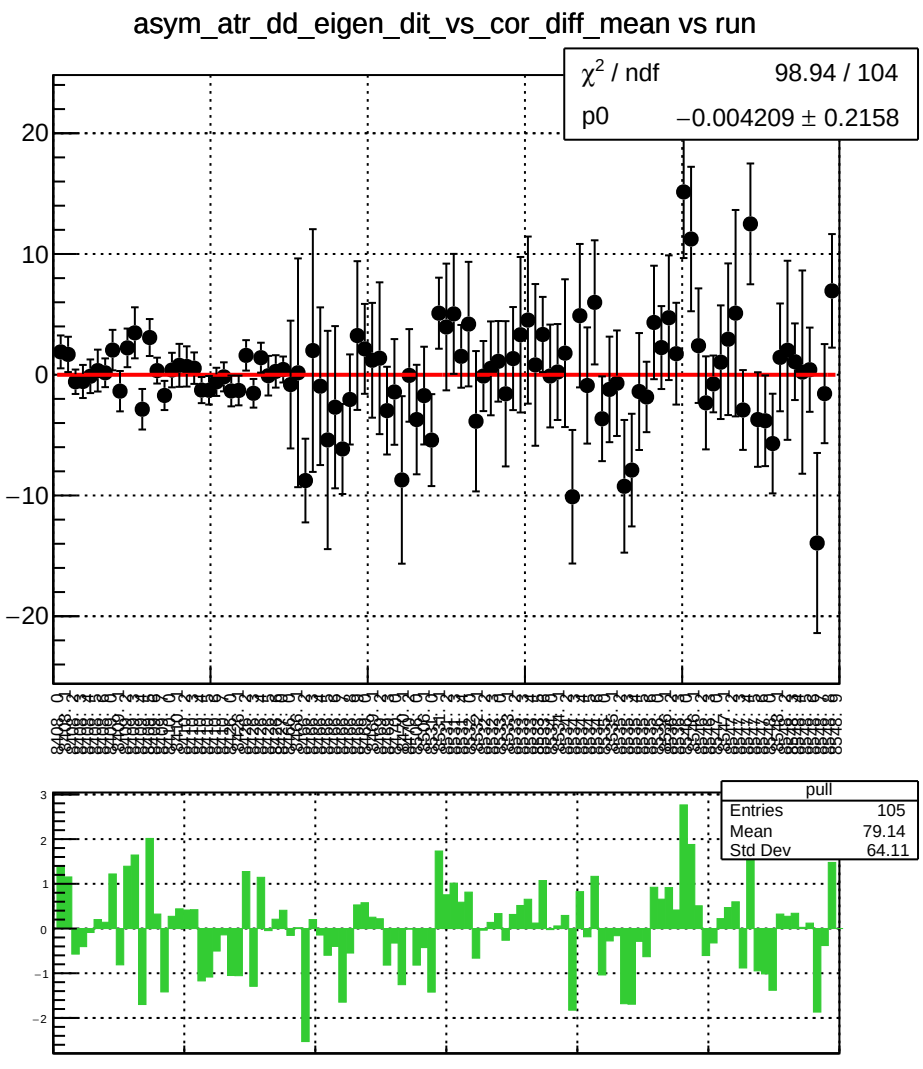

asym_atr_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.93 / 104
p0 −0.004247 ± 0.2158
pull
Entries 105
Mean 79.14
Std Dev 64.1
pull1D
Entries 105
Mean 0.01971
Std Dev 0.9705

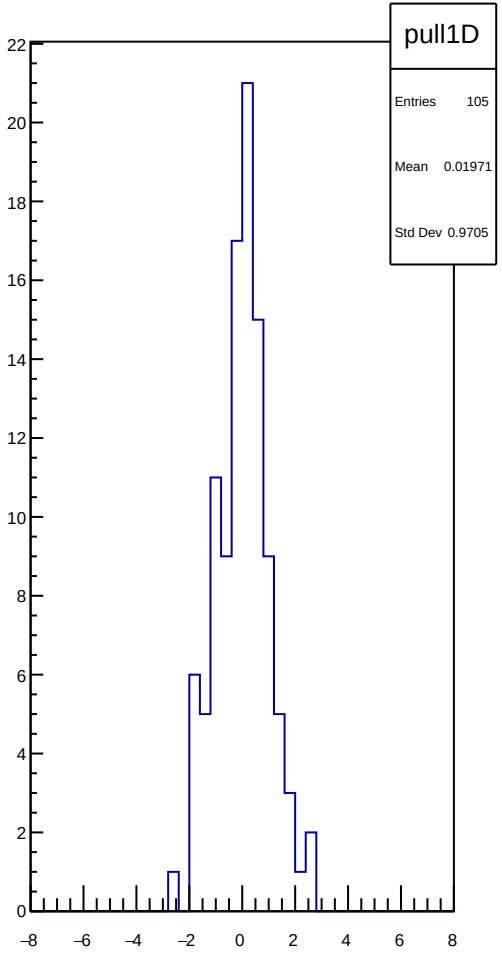

asym_atr_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.404e+05 / 104
p0 180.9 ± 0.1526
1000
800
600
400
200

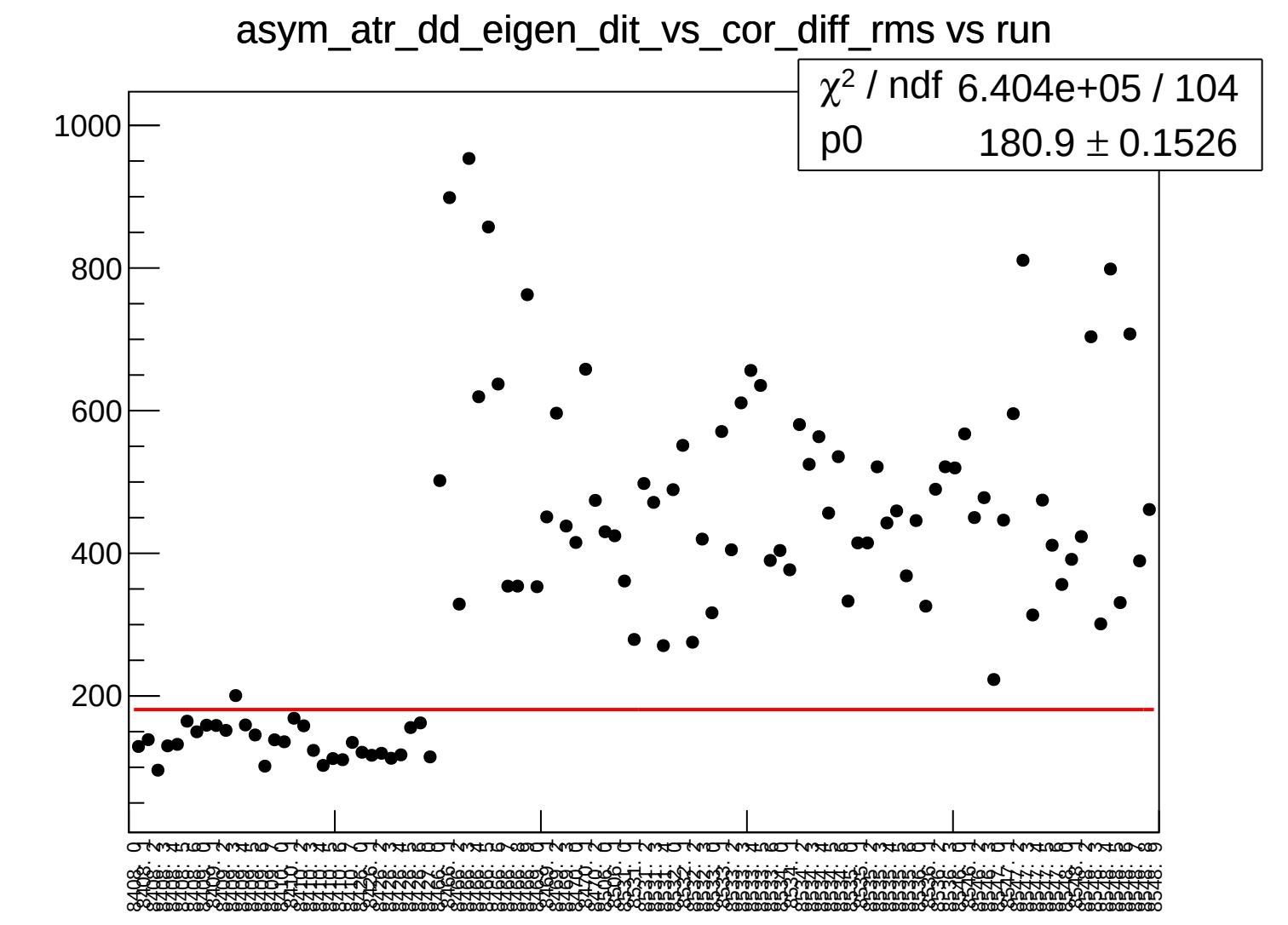

asym_atr_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 115.4 / 104
p0 −5.071e−06 ± 1.391e−06
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
pull
Entries 105
Mean 58.32
Std Dev 30.69
2
1
0
−1
−2

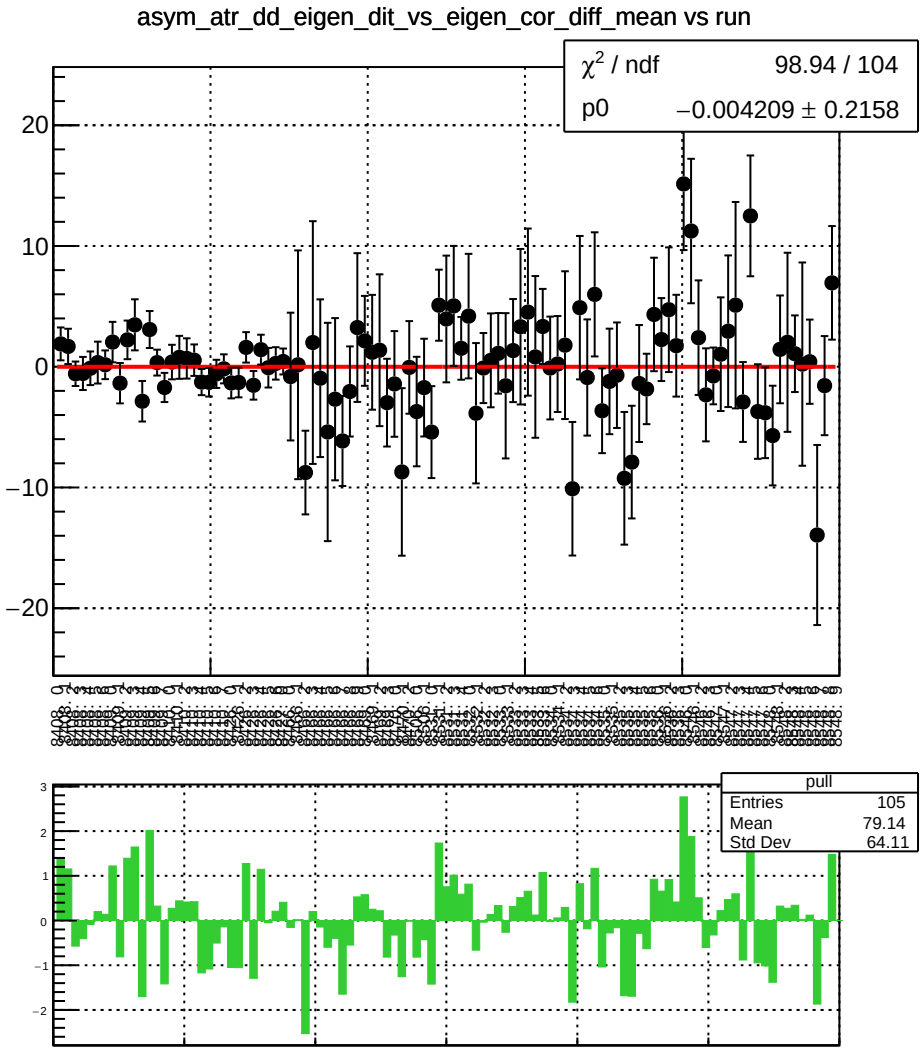

pull1D
Entries 105
Mean 0.1284
Std Dev 1.04
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

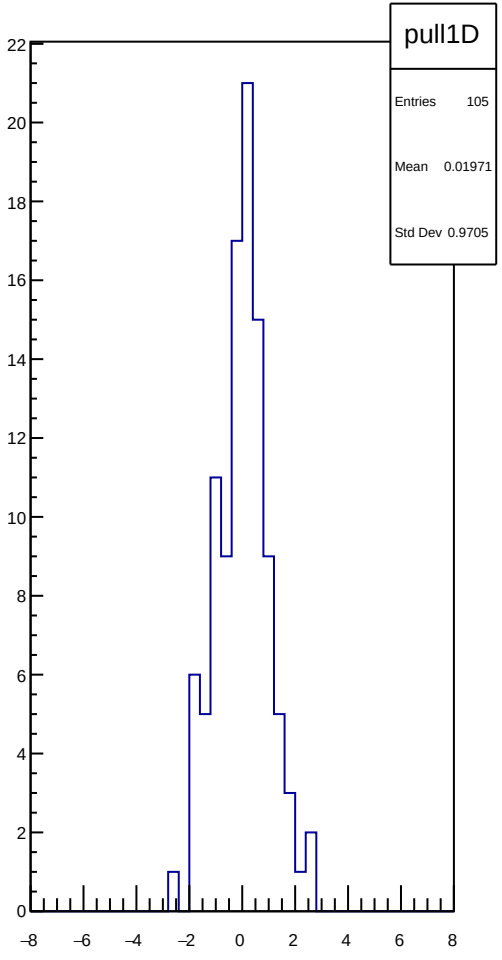

asym_atr_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.38e+06 / 104
p0 0.0008028 ± 9.835e−07
0.03
0.025
0.02
0.015
0.01
0.005

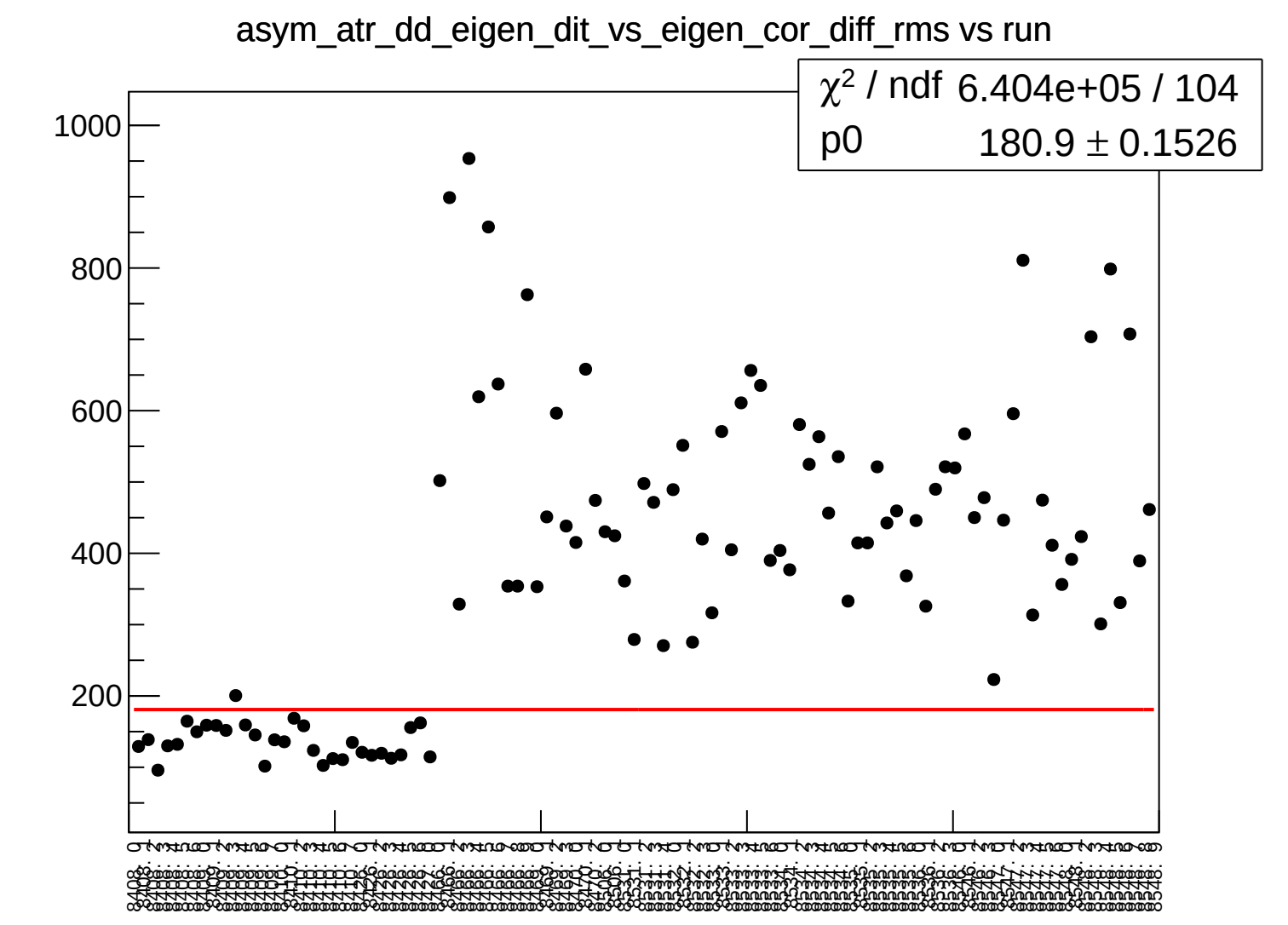

asym_atr_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 98.94 / 104
p0 −0.004209 ± 0.2158
pull
Entries 105
Mean 79.14
Std Dev 64.11

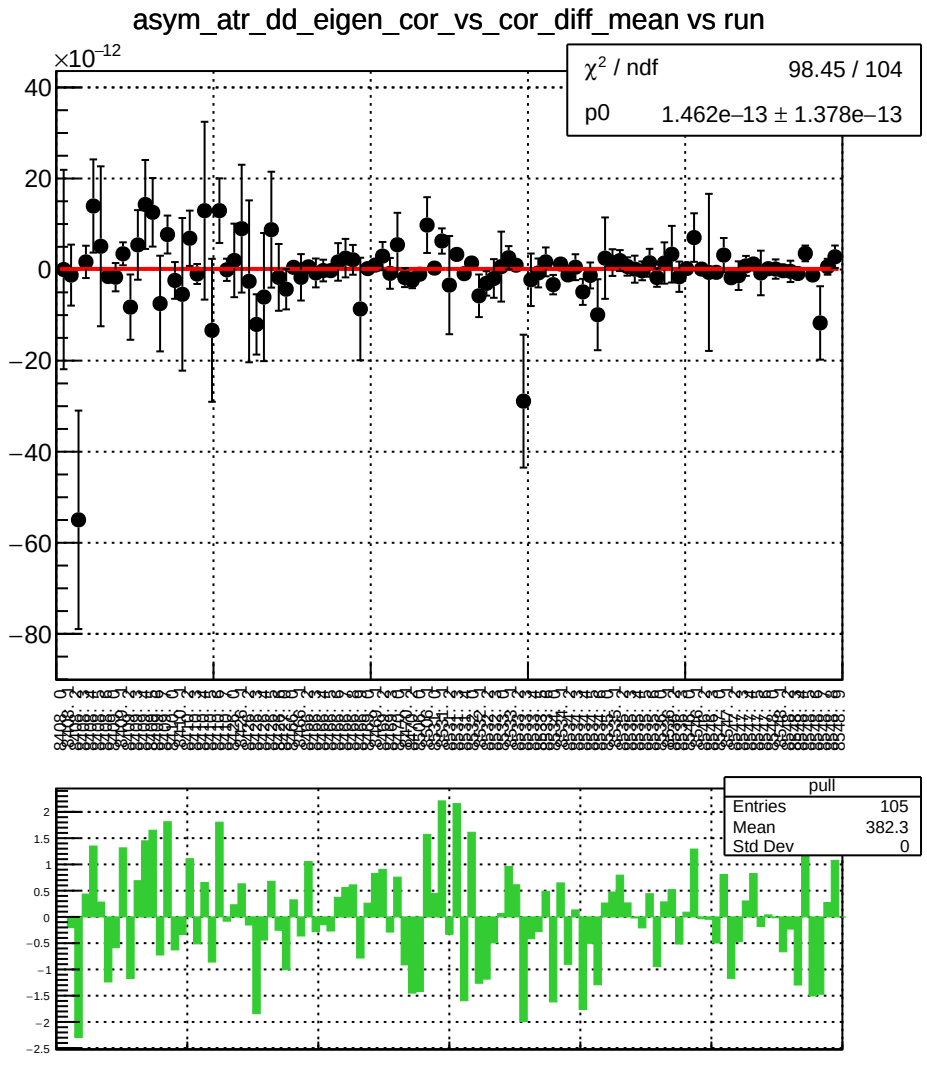

pull1D
Entries 105
Mean 0.01971
Std Dev 0.9705

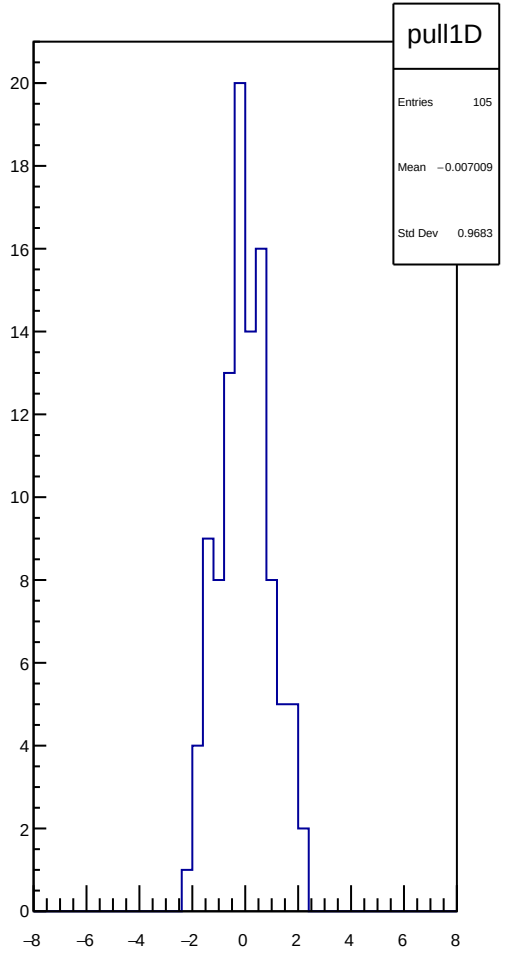

asym_atr_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.404e+05 / 104
p0 180.9 ± 0.1526
1000
800
600
400
200

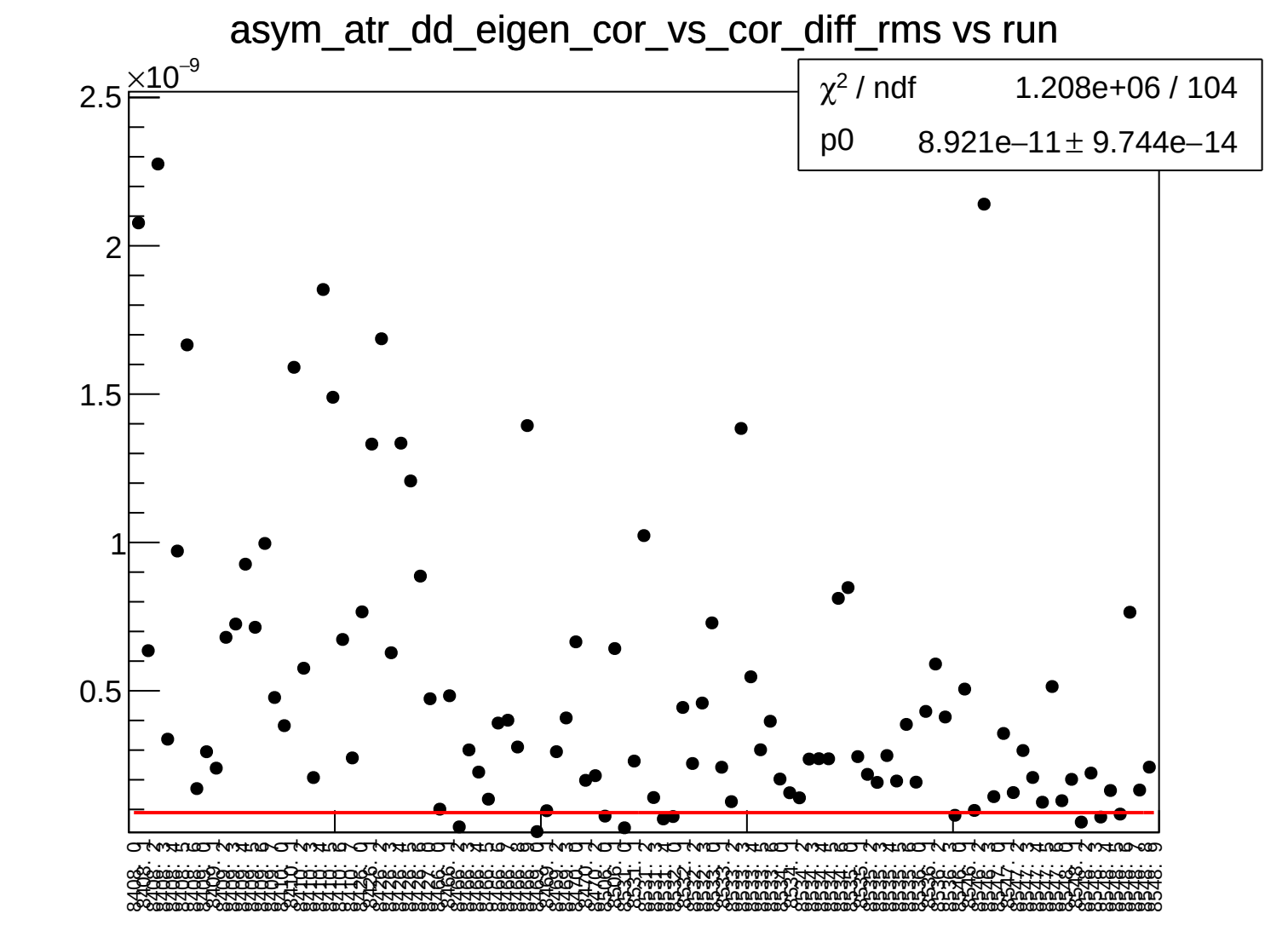

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 98.94 / 104
p0 −0.004209 ± 0.2158
pull
Entries 105
Mean 79.14
Std Dev 64.11

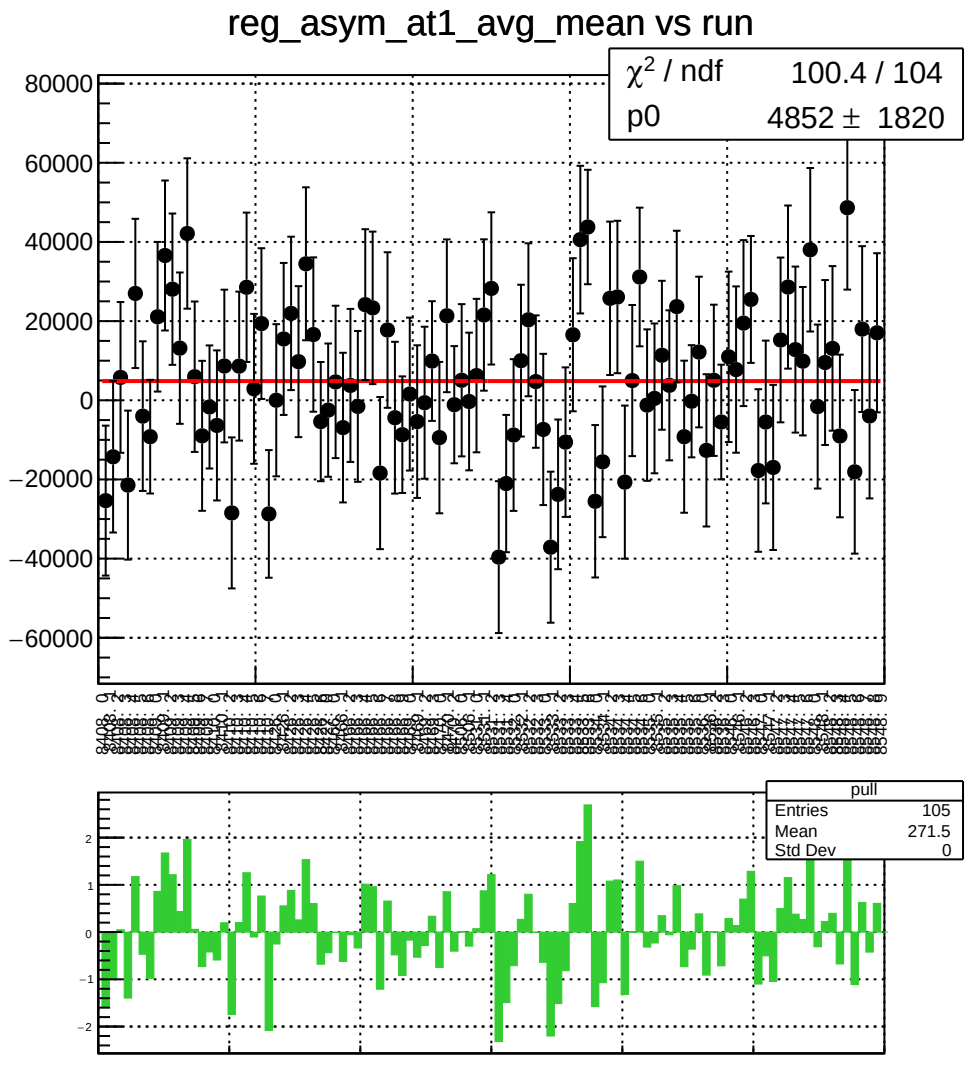

pull1D
Entries 105
Mean 0.01971
Std Dev 0.9705

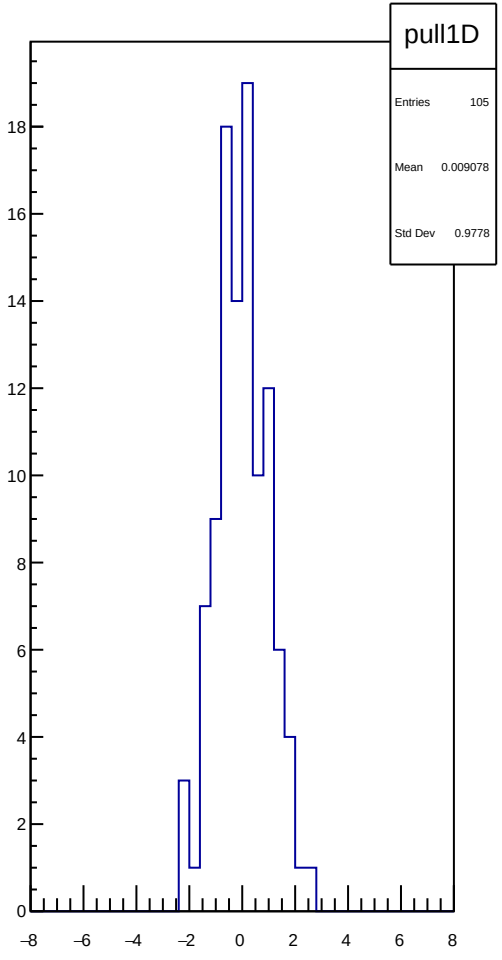

asym_atr_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.404e+05 / 104
p0 180.9 ± 0.1526
1000
800
600
400
200

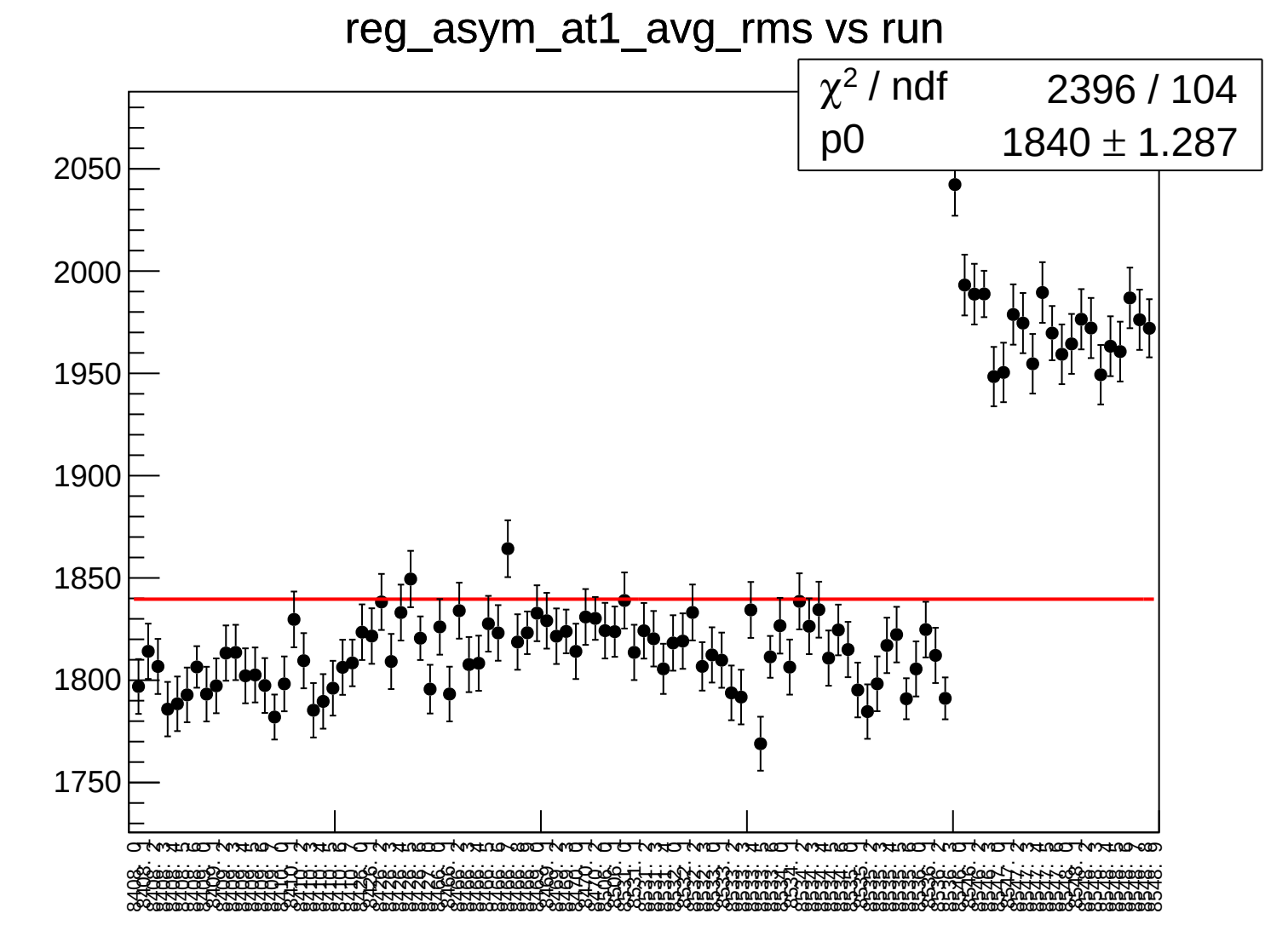

asym_atr_dd_eigen_cor_vs_cor_diff_mean vs run
×10^-12
χ² / ndf 98.45 / 104
p0 1.462e−13 ± 1.378e−13
pull
Entries 105
Mean 382.3
Std Dev 0

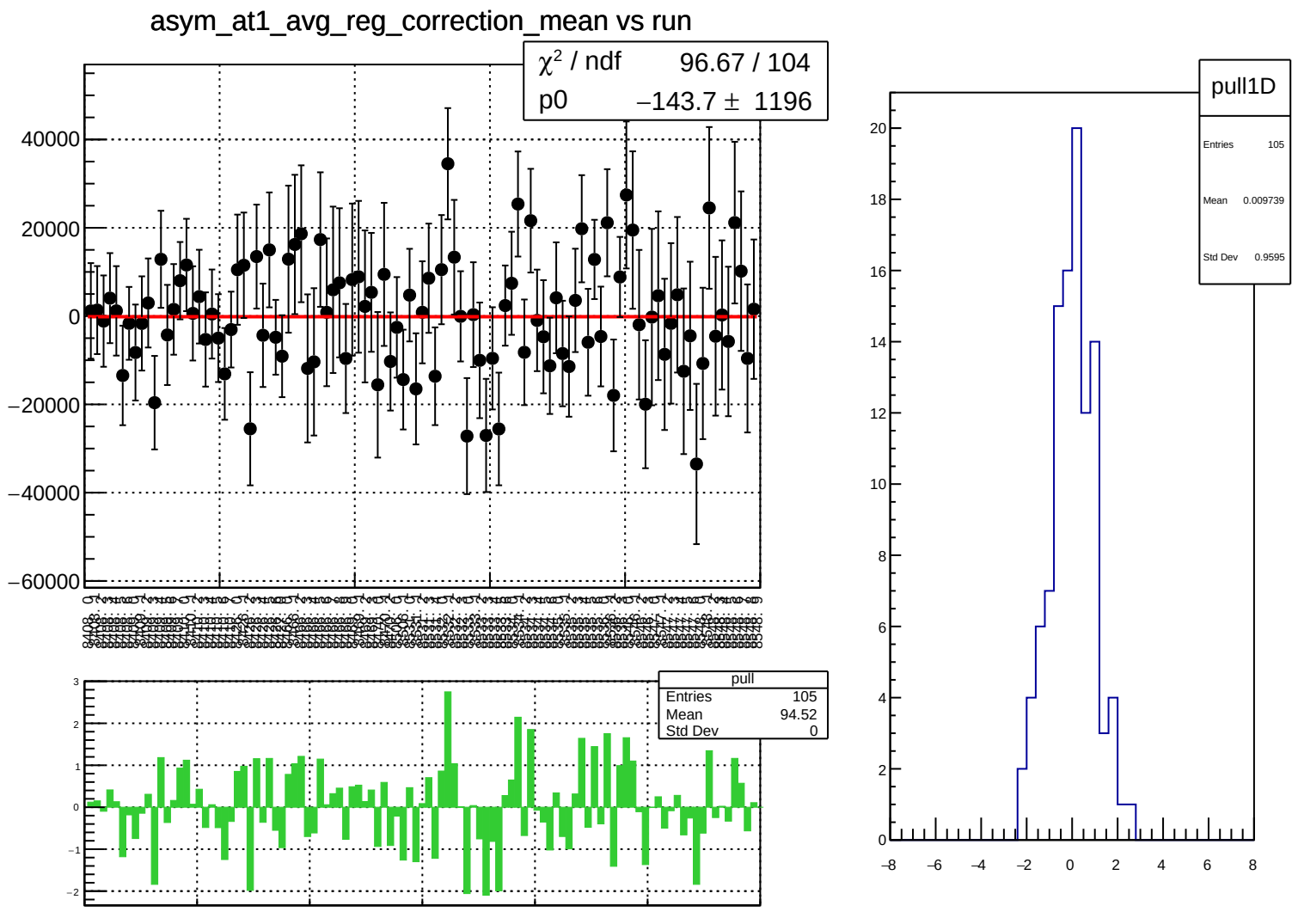

pull1D
Entries 105
Mean −0.007009
Std Dev 0.9683

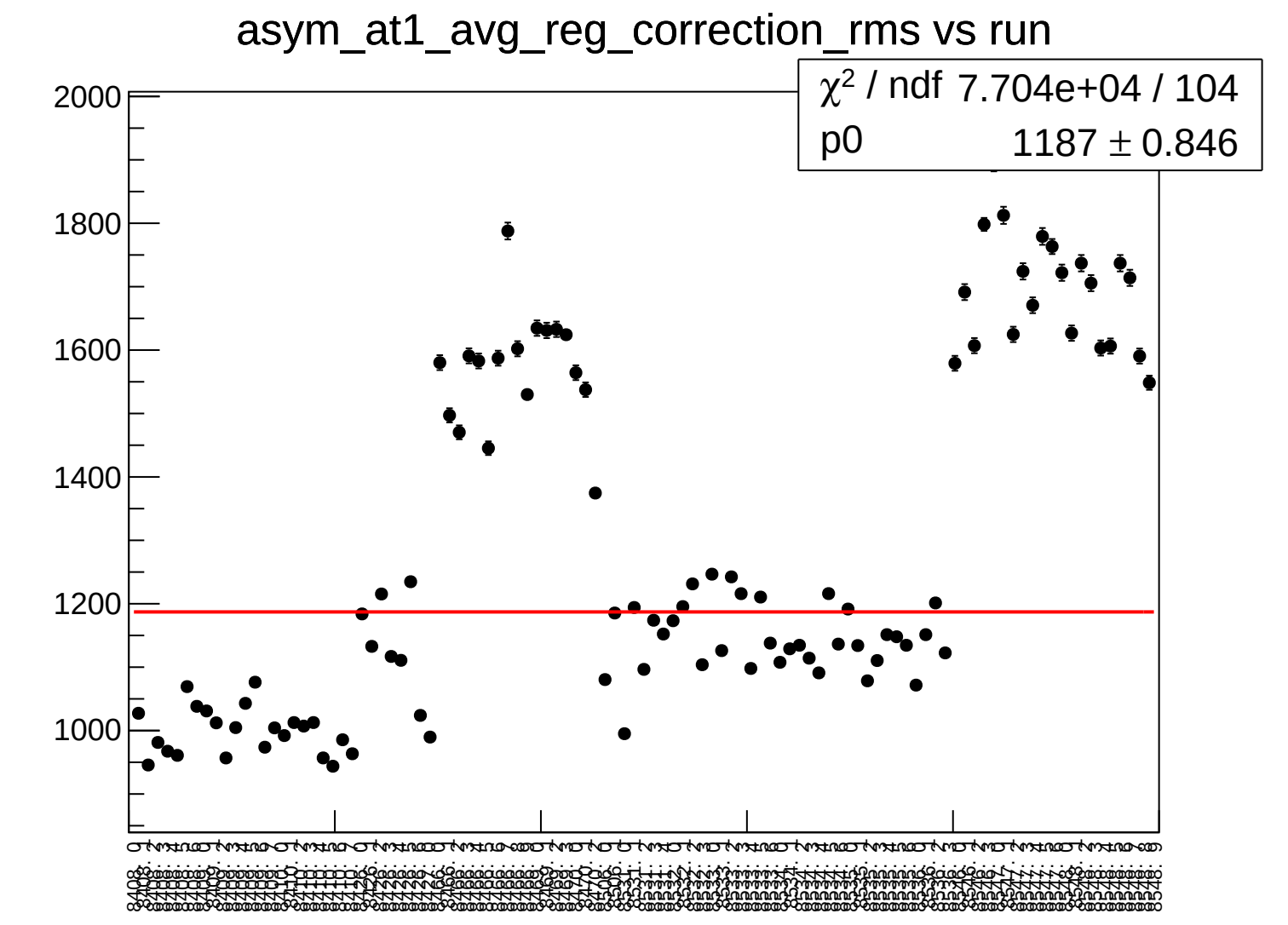

asym_atr_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
2.5
2
1.5
1
0.5
χ² / ndf 1.208e+06 / 104
p0 8.921e−11 ± 9.744e−14

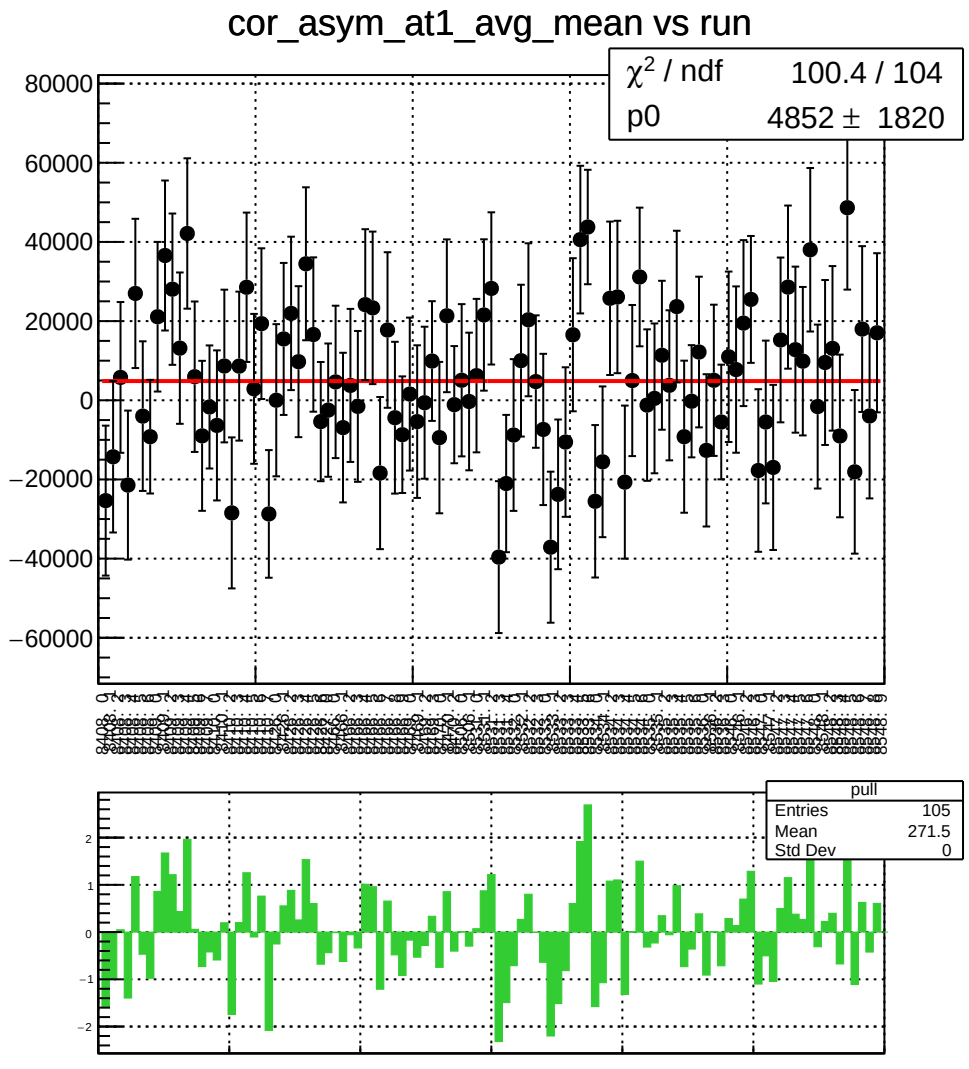

reg_asym_at1_avg_mean vs run
χ² / ndf 100.4 / 104
p0 4852 ± 1820
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean 271.5
Std Dev 0
2
1
0
−1
−2

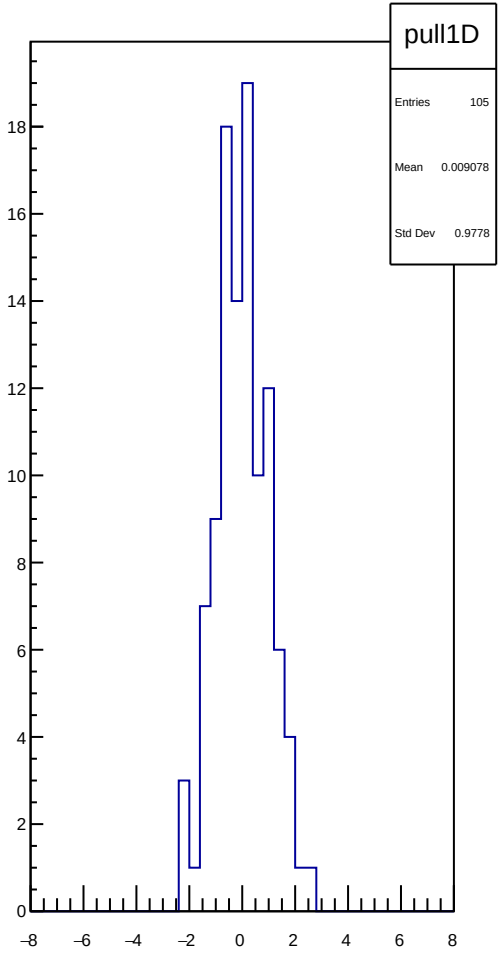

pull1D
Entries 105
Mean 0.009078
Std Dev 0.9778
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

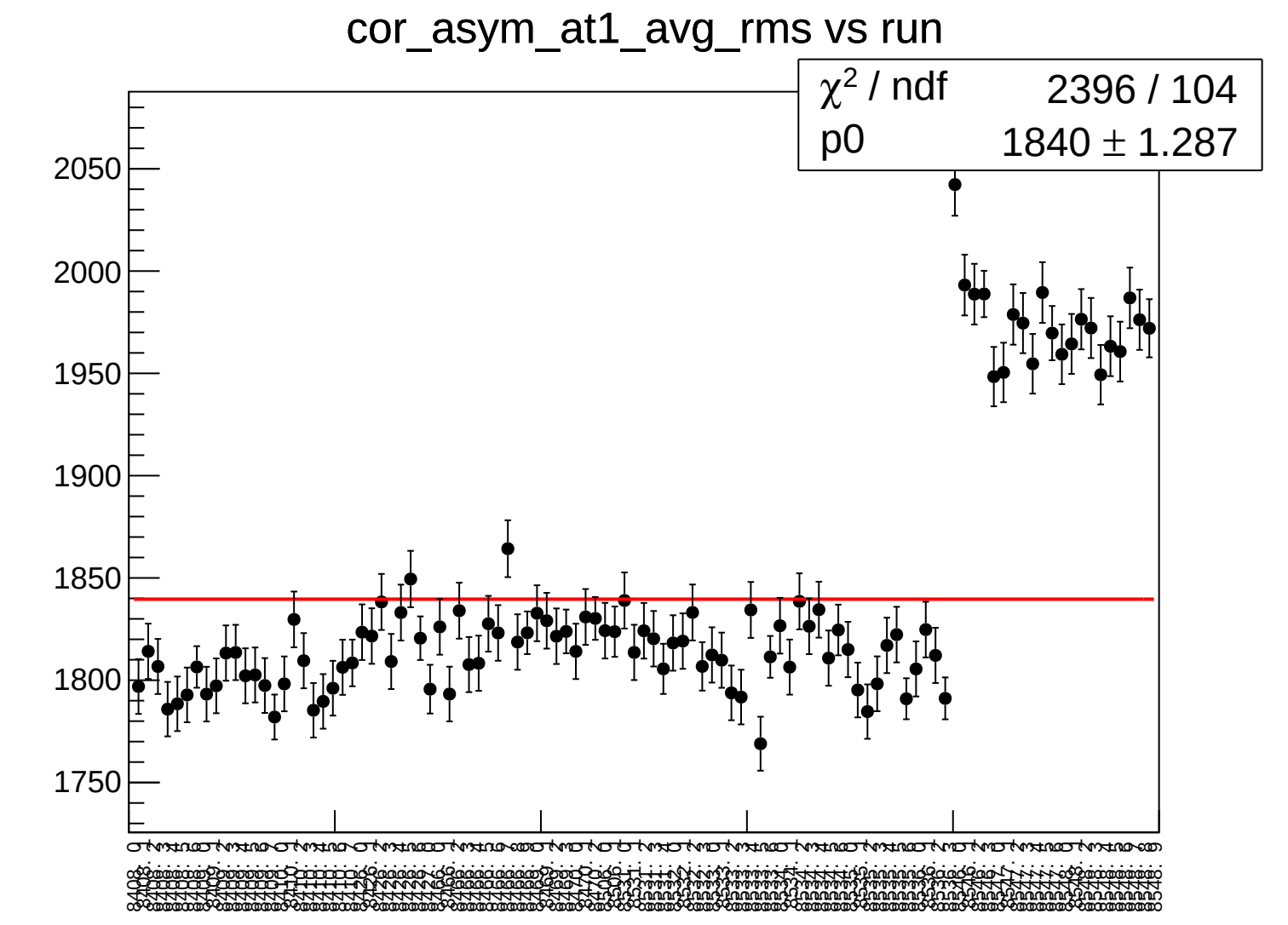

reg_asym_at1_avg_rms vs run
χ² / ndf 2396 / 104
p0 1840 ± 1.287
2050
2000
1950
1900
1850
1800
1750

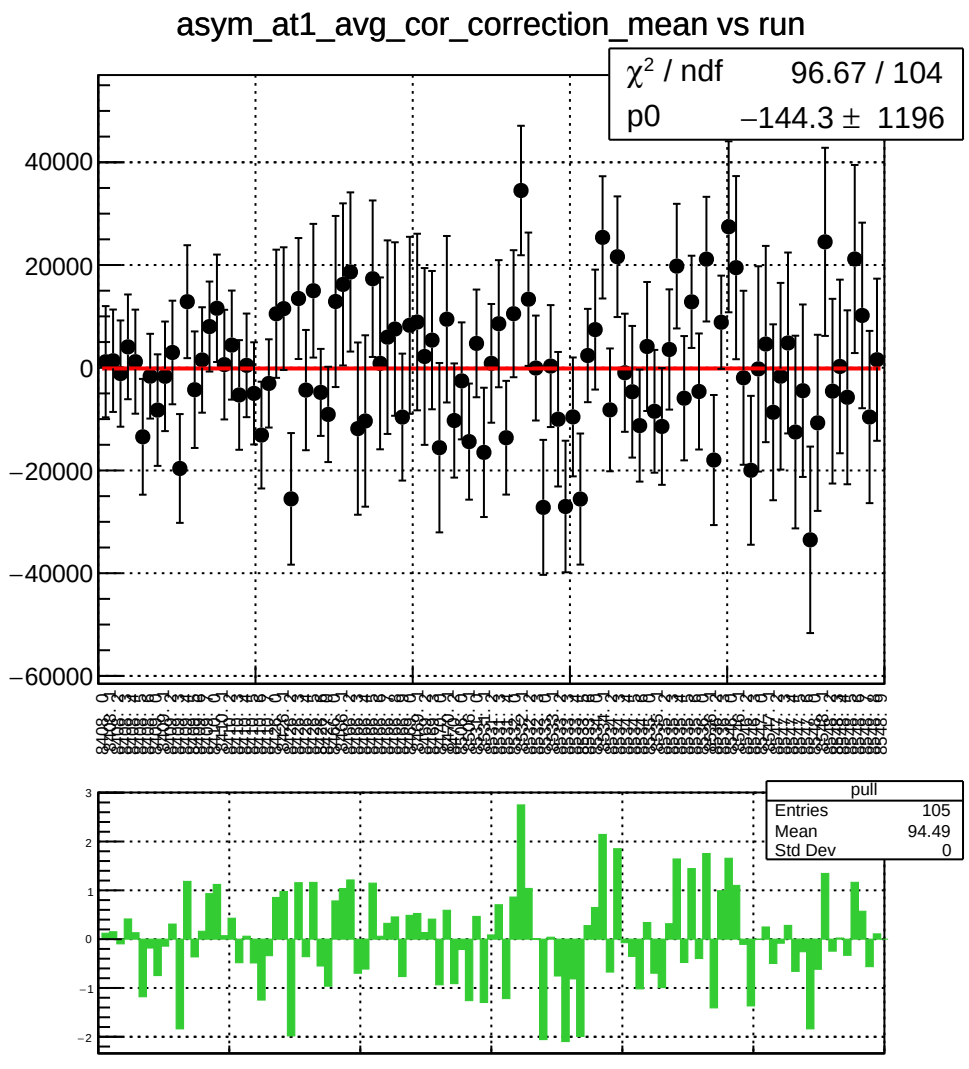

asym_at1_avg_reg_correction_mean vs run
χ² / ndf 96.67 / 104
p0 −143.7 ± 1196
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean 94.52
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.009739
Std Dev 0.9595
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

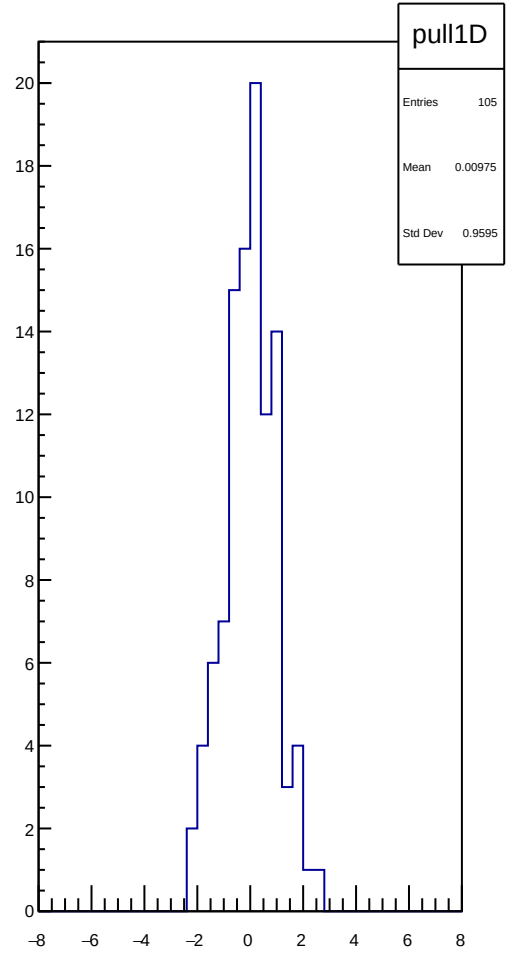

asym_at1_avg_reg_correction_rms vs run
χ² / ndf 7.704e+04 / 104
p0 1187 ± 0.846
2000
1800
1600
1400
1200
1000

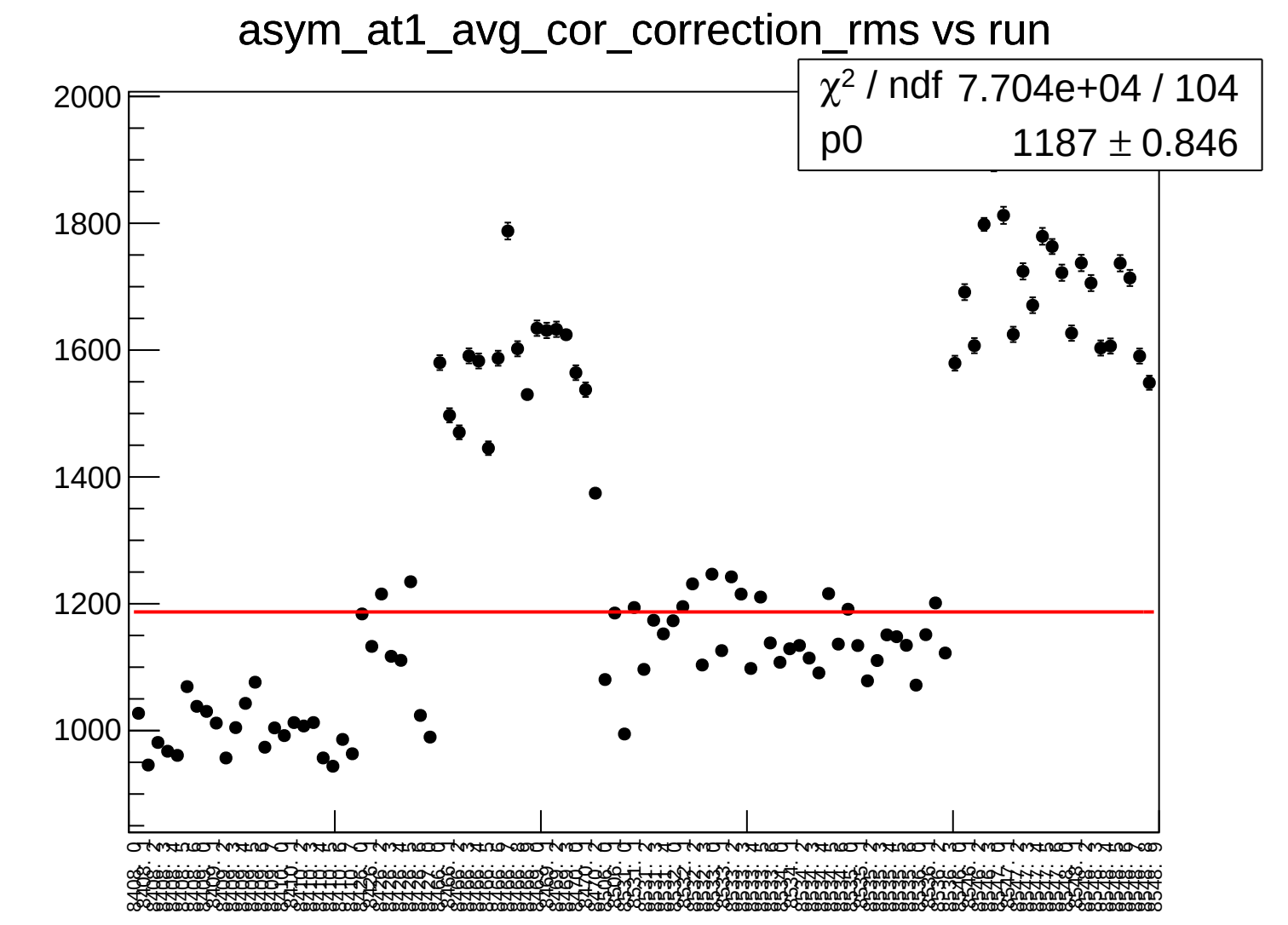

cor_asym_at1_avg_mean vs run
χ² / ndf 100.4 / 104
p0 4852 ± 1820
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean 271.5
Std Dev 0
2
1
0
−1
−2

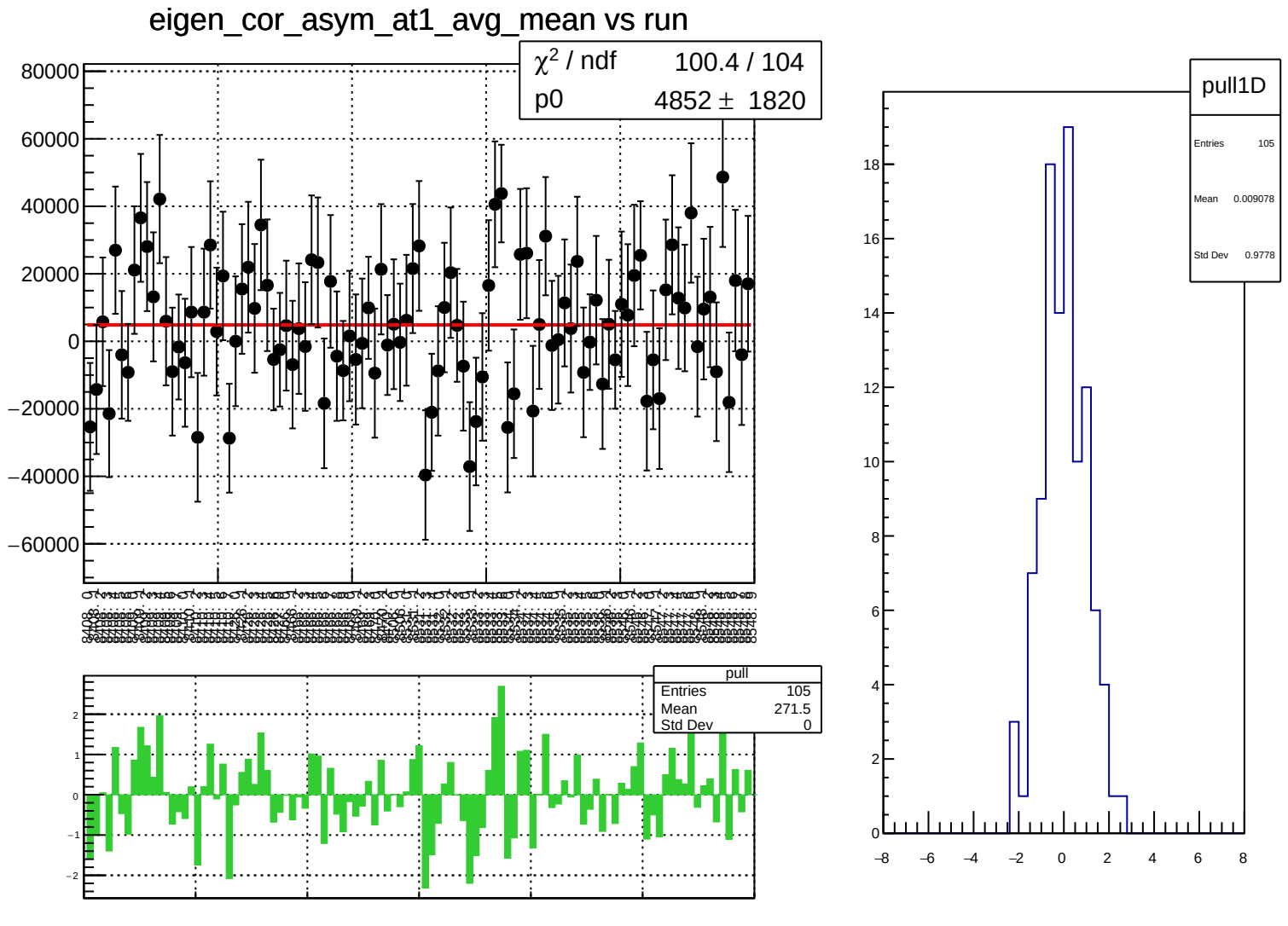

pull1D
Entries 105
Mean 0.009078
Std Dev 0.9778
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

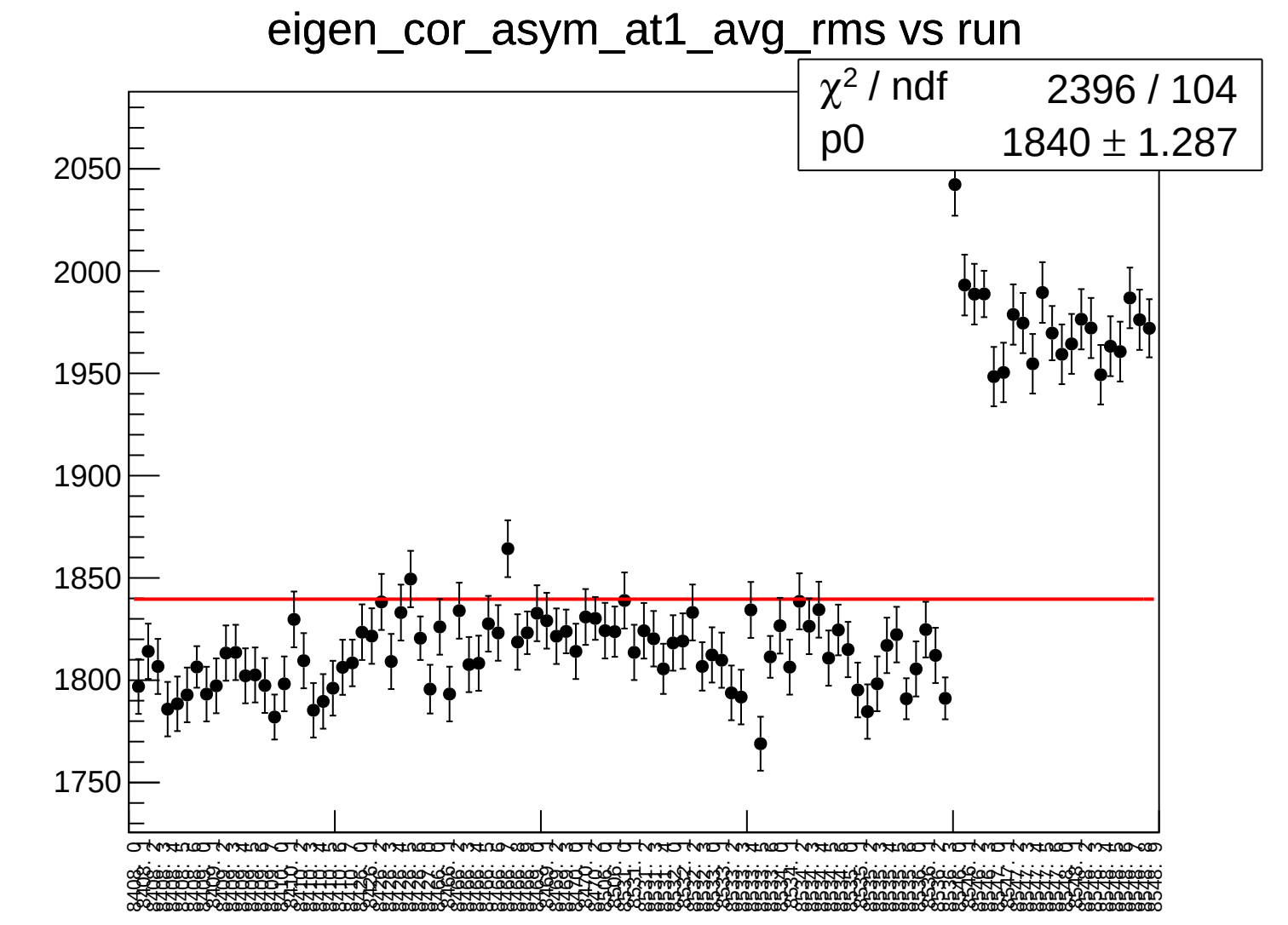

cor_asym_at1_avg_rms vs run
χ^2 / ndf 2396 / 104
p0 1840 ± 1.287
2050
2000
1950
1900
1850
1800
1750

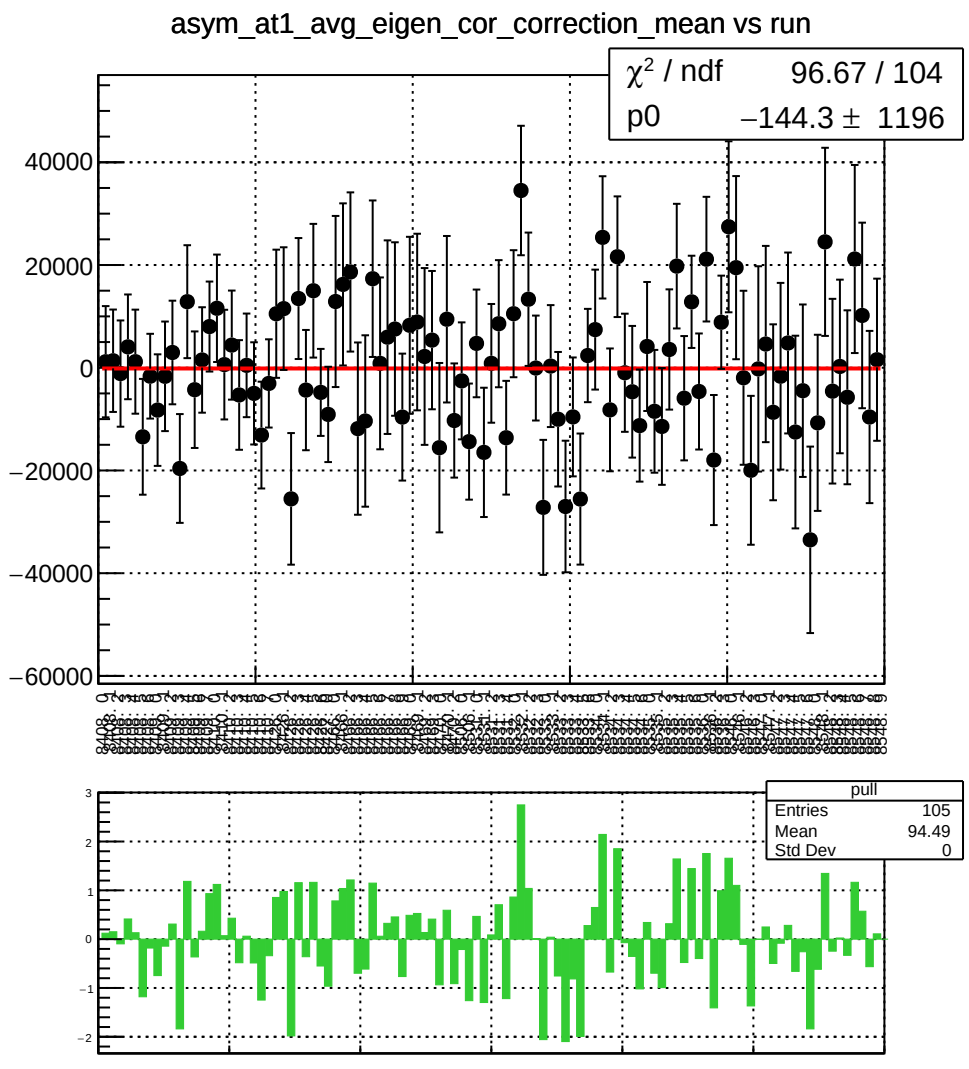

asym_at1_avg_cor_correction_mean vs run
χ² / ndf 96.67 / 104
p0 −144.3 ± 1196
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean 94.49
Std Dev 0
3
2
1
0
−1
−2

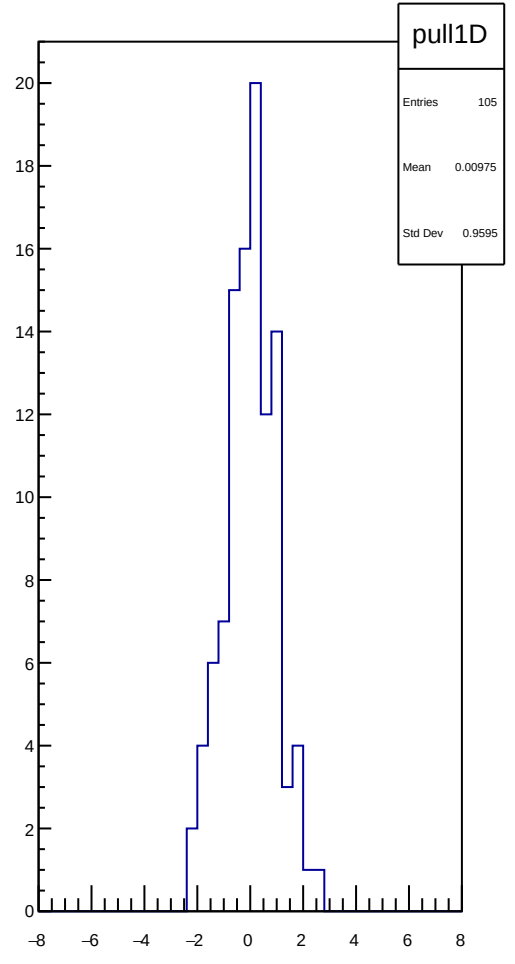

pull1D
Entries 105
Mean 0.00975
Std Dev 0.9595
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

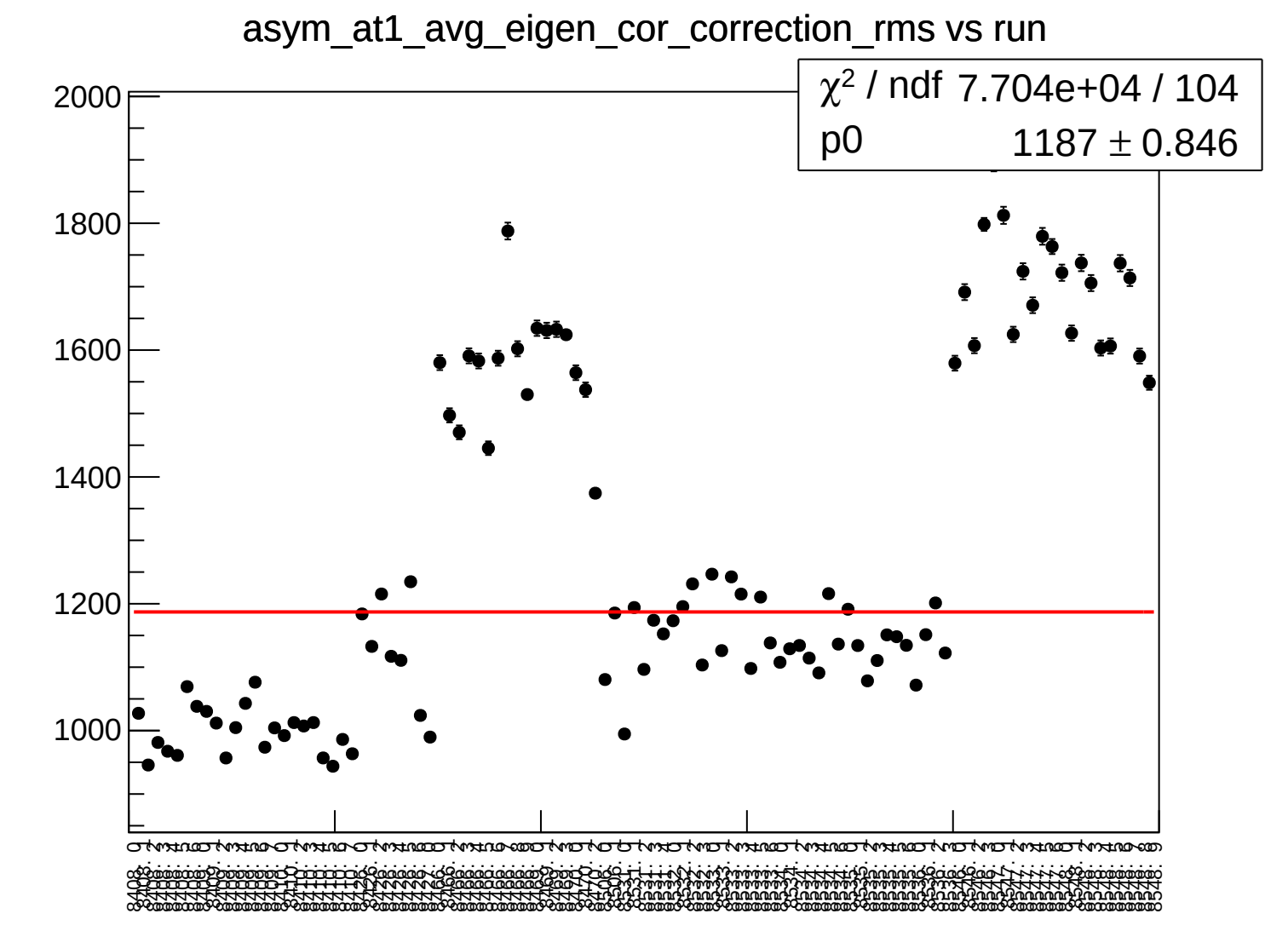

asym_at1_avg_cor_correction_rms vs run
χ² / ndf 7.704e+04 / 104
p0 1187 ± 0.846
2000
1800
1600
1400
1200
1000

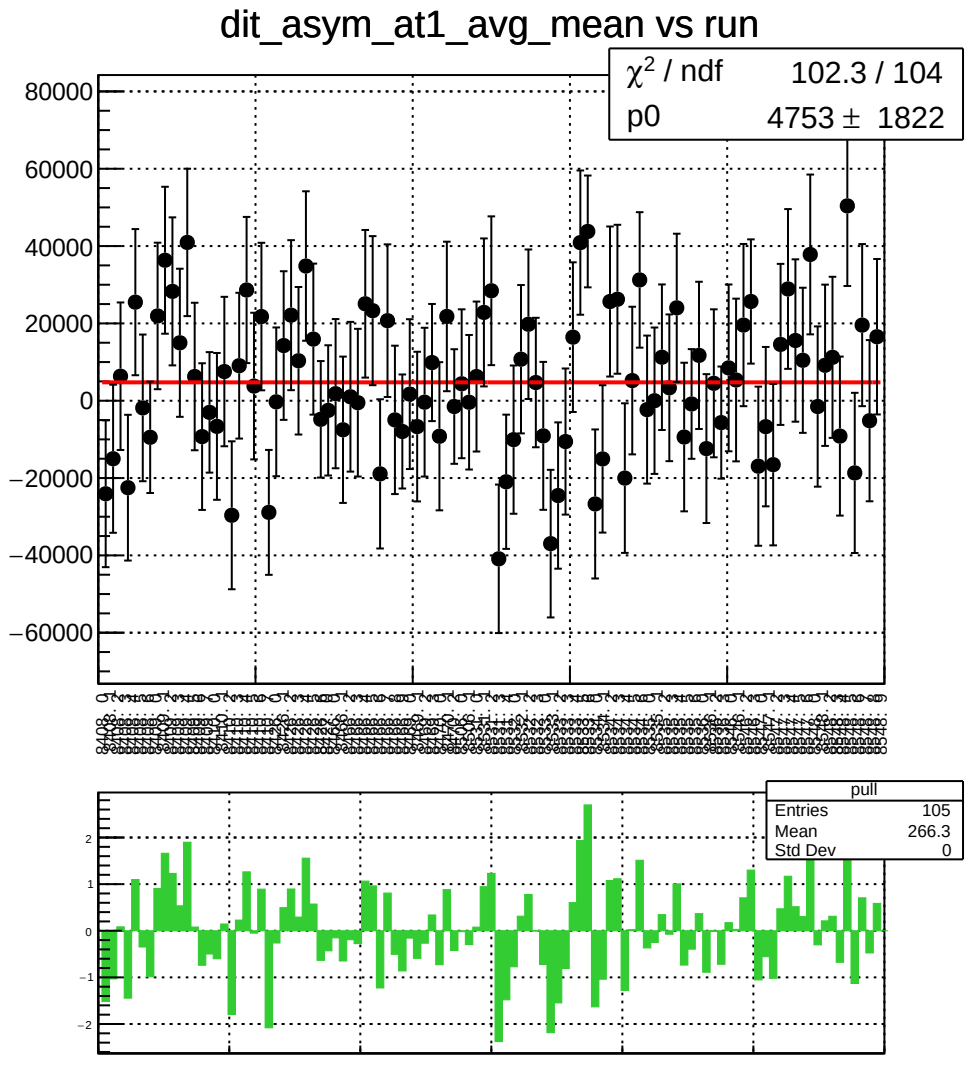

eigen_cor_asym_at1_avg_mean vs run
χ² / ndf 100.4 / 104
p0 4852 ± 1820
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean 271.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.009078
Std Dev 0.9778
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

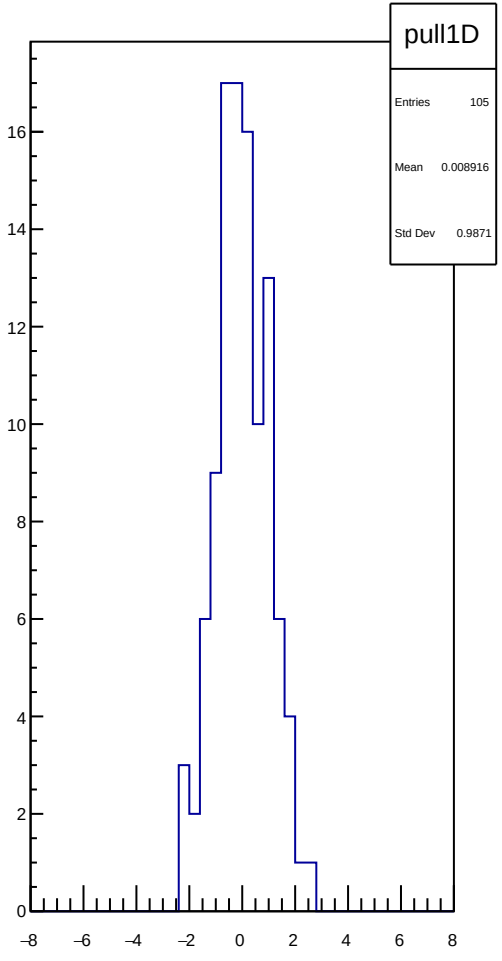

eigen_cor_asym_at1_avg_rms vs run
χ² / ndf 2396 / 104
p0 1840 ± 1.287
2050
2000
1950
1900
1850
1800
1750

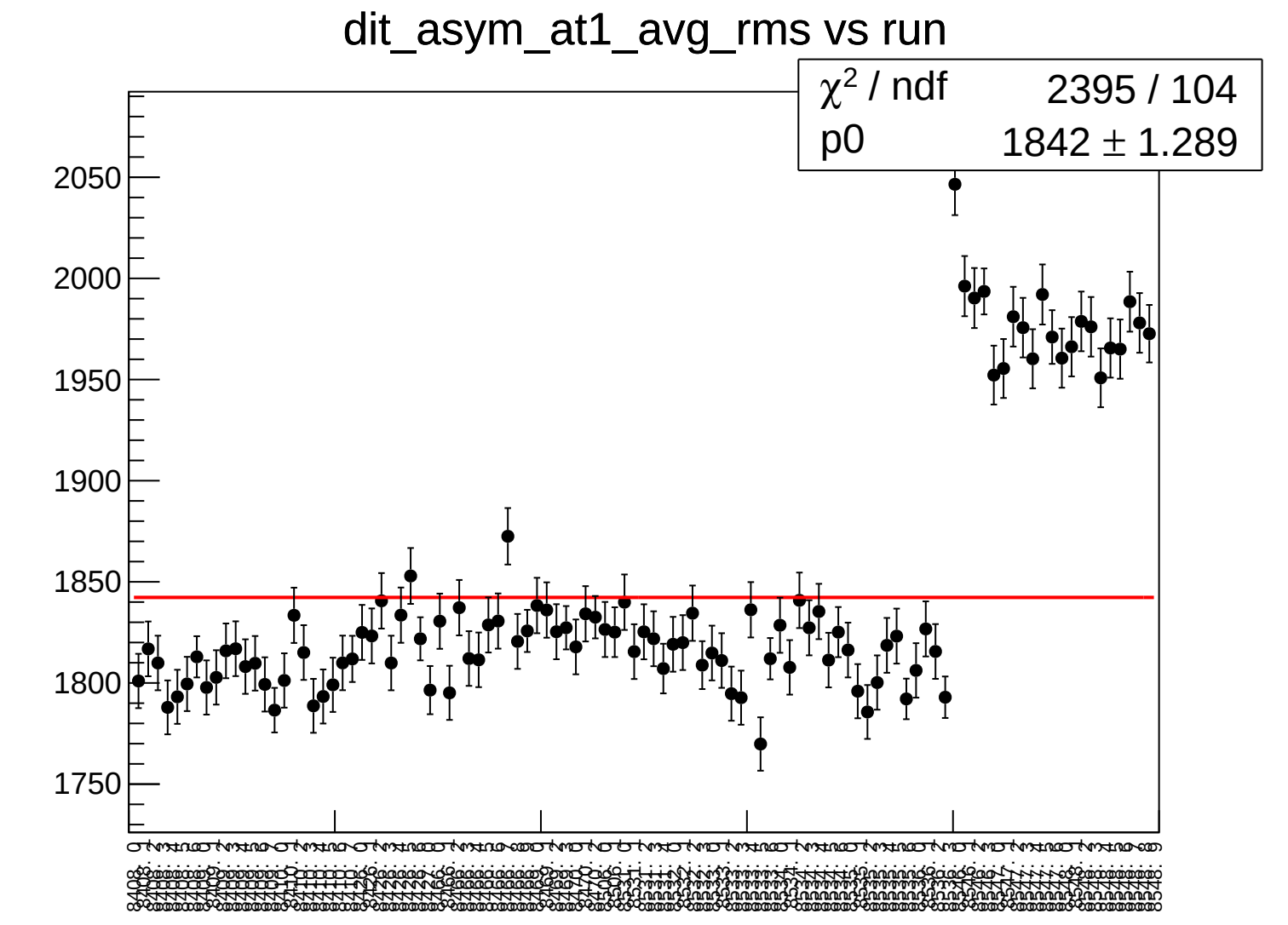

asym_at1_avg_eigen_cor_correction_mean vs run
χ² / ndf 96.67 / 104
p0 −144.3 ± 1196
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean 94.49
Std Dev 0
3
2
1
0
−1
−2

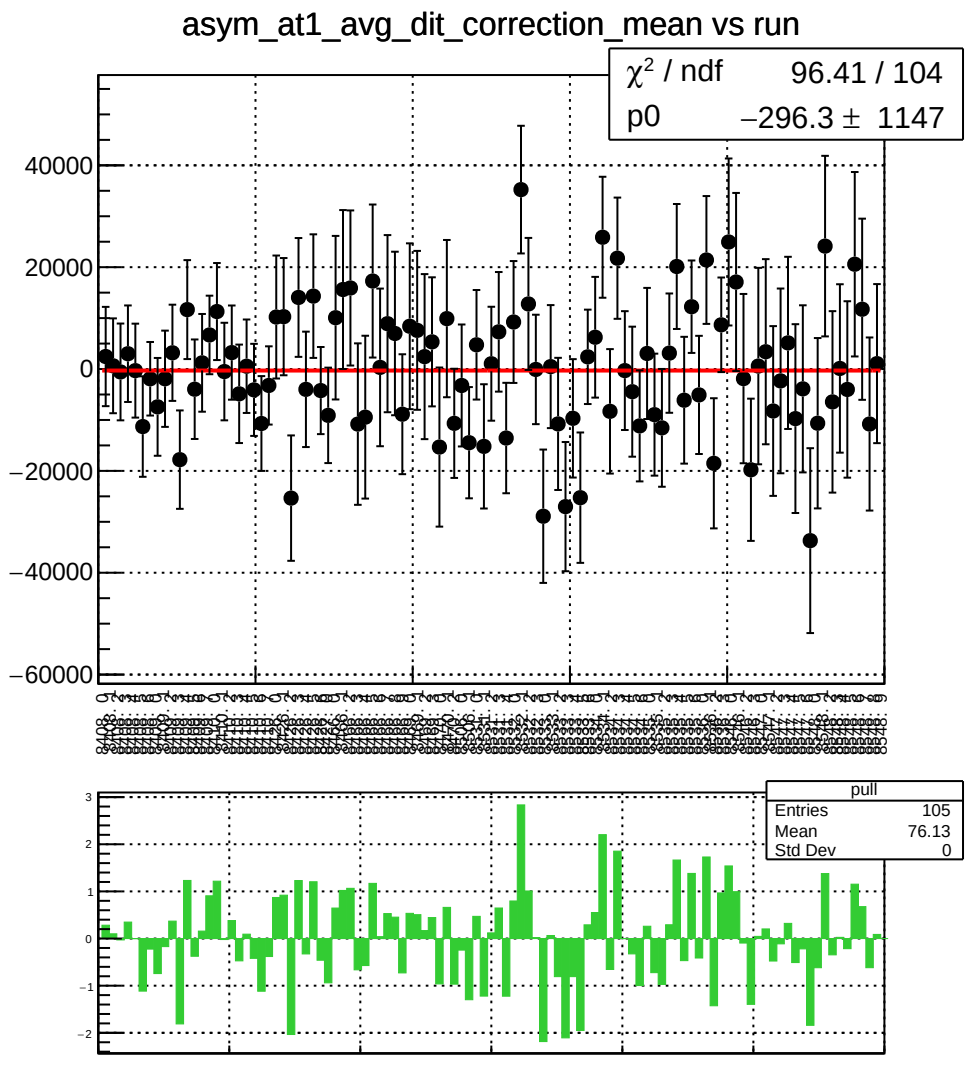

pull1D
Entries 105
Mean 0.00975
Std Dev 0.9595
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

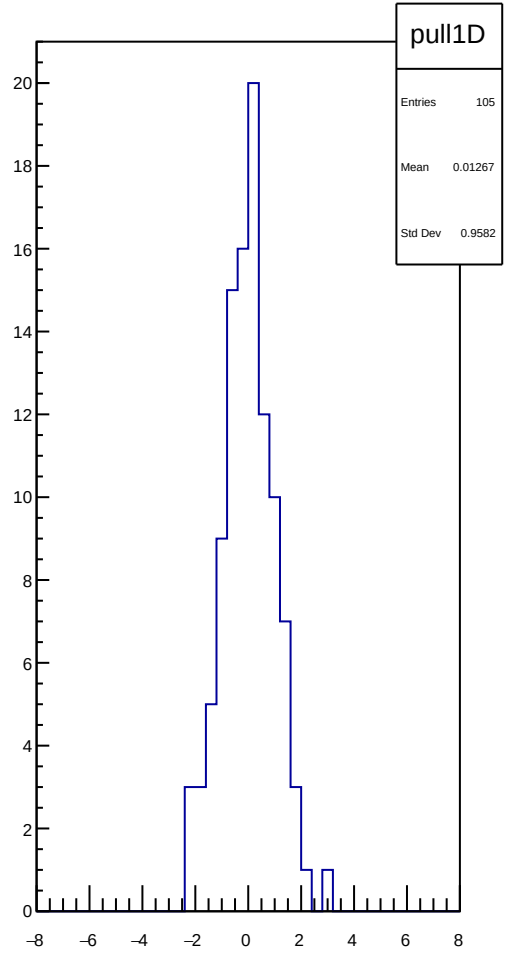

asym_at1_avg_eigen_cor_correction_rms vs run
χ² / ndf 7.704e+04 / 104
p0 1187 ± 0.846
2000
1800
1600
1400
1200
1000

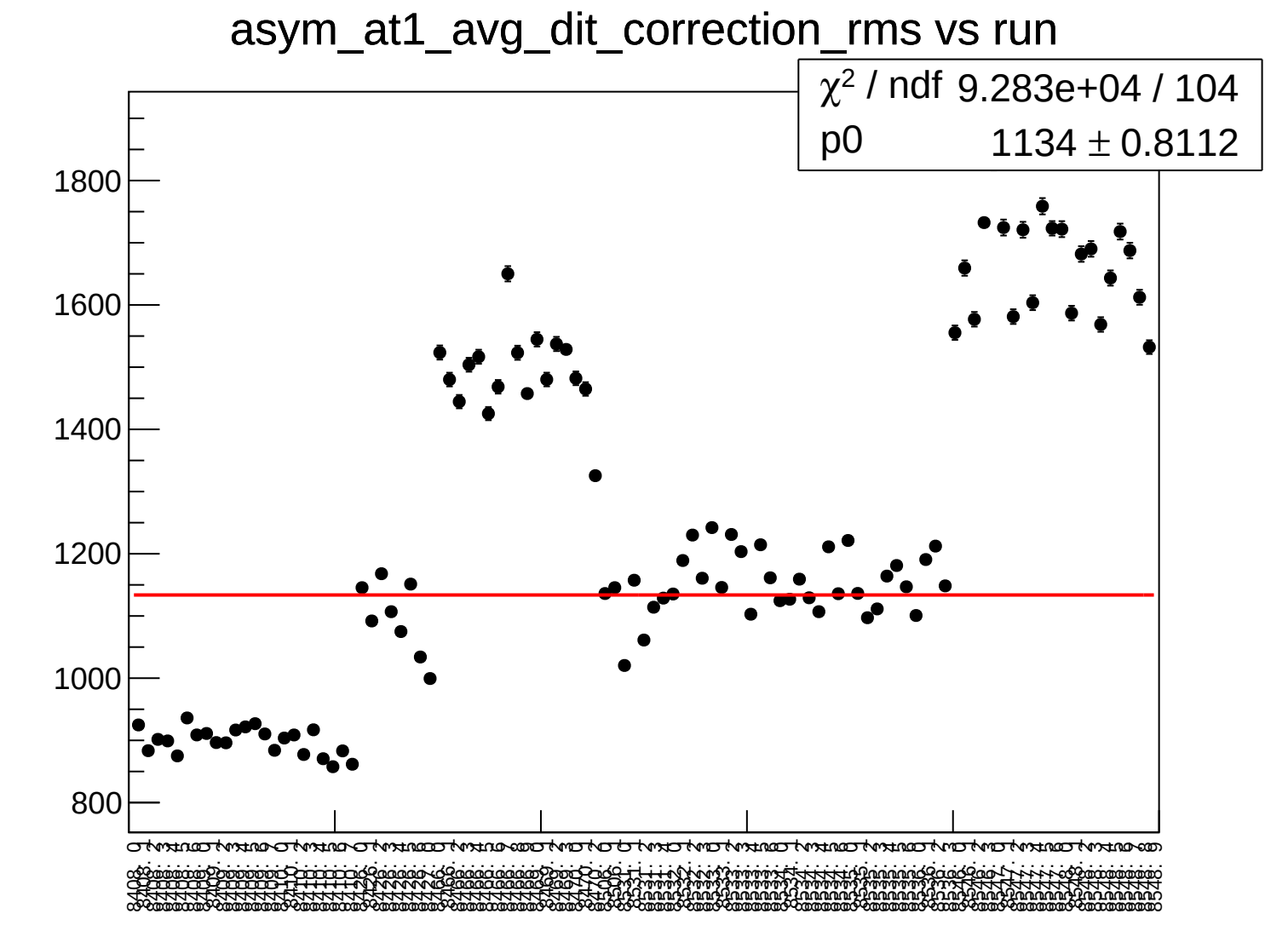

dit_asym_at1_avg_mean vs run
χ² / ndf 102.3 / 104
p0 4753 ± 1822
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean 266.3
Std Dev 0
2
1
0
−1
−2

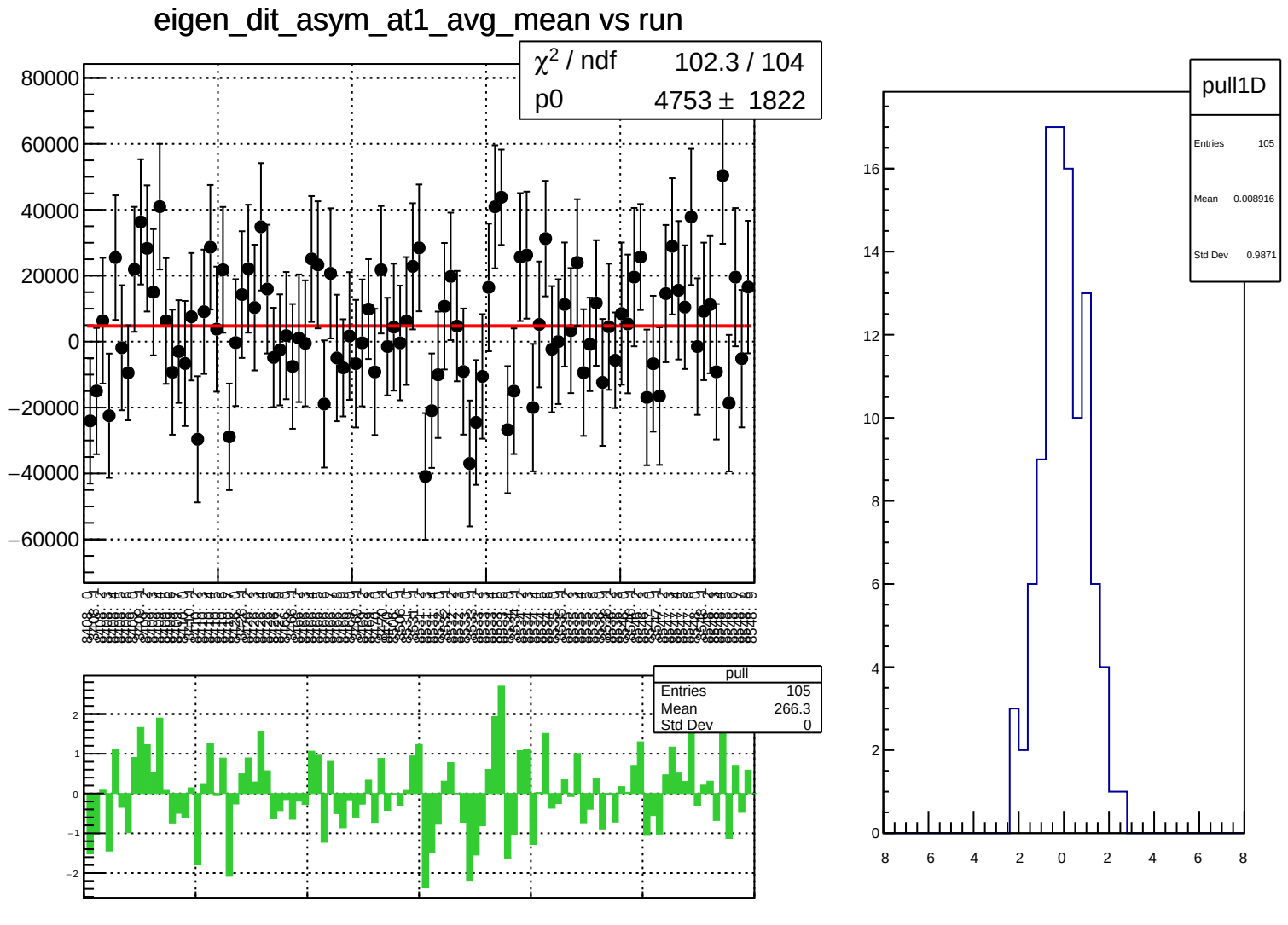

pull1D
Entries 105
Mean 0.008916
Std Dev 0.9871
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

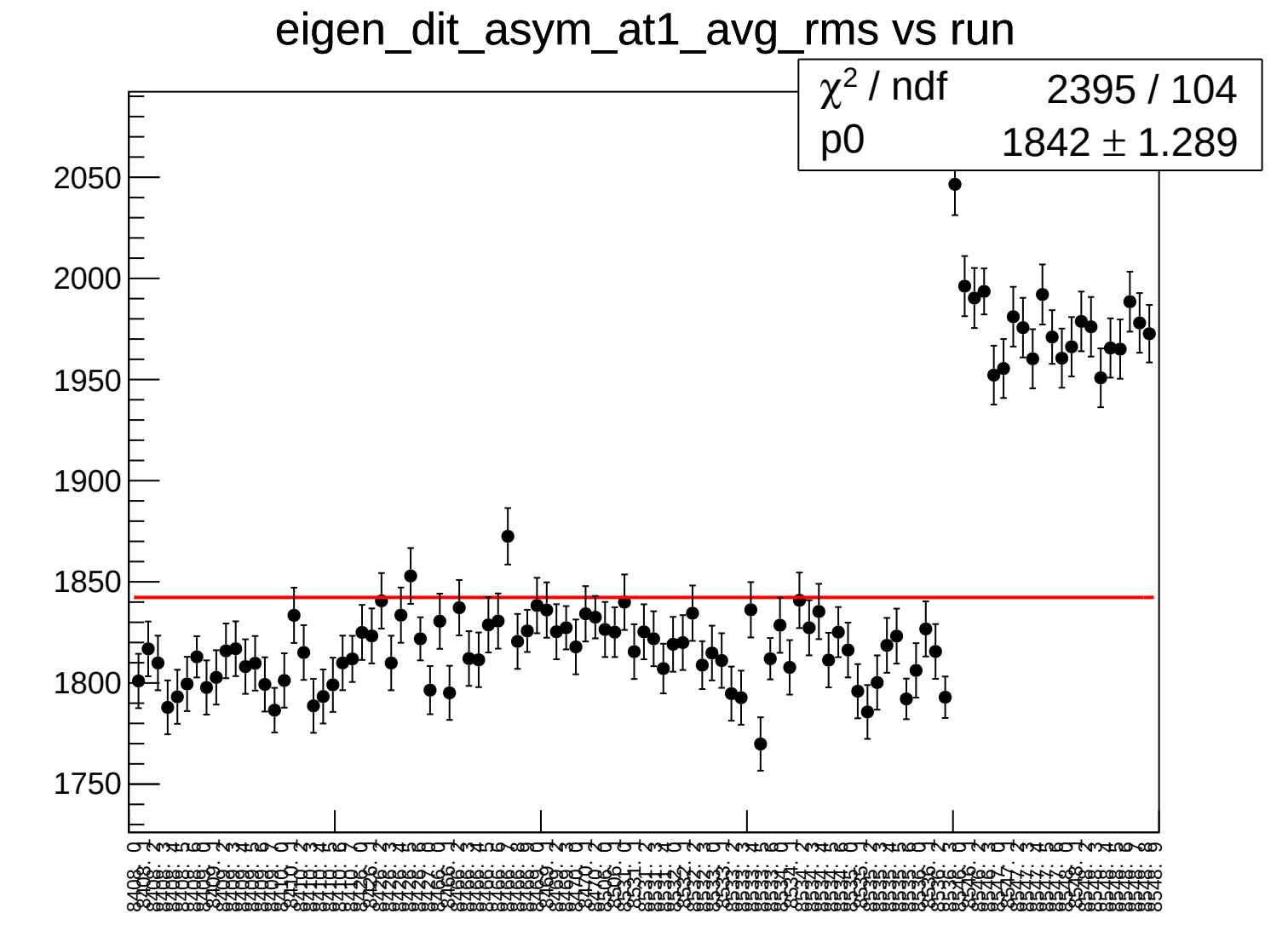

dit_asym_at1_avg_rms vs run
χ^2 / ndf 2395 / 104
p0 1842 ± 1.289
2050
2000
1950
1900
1850
1800
1750

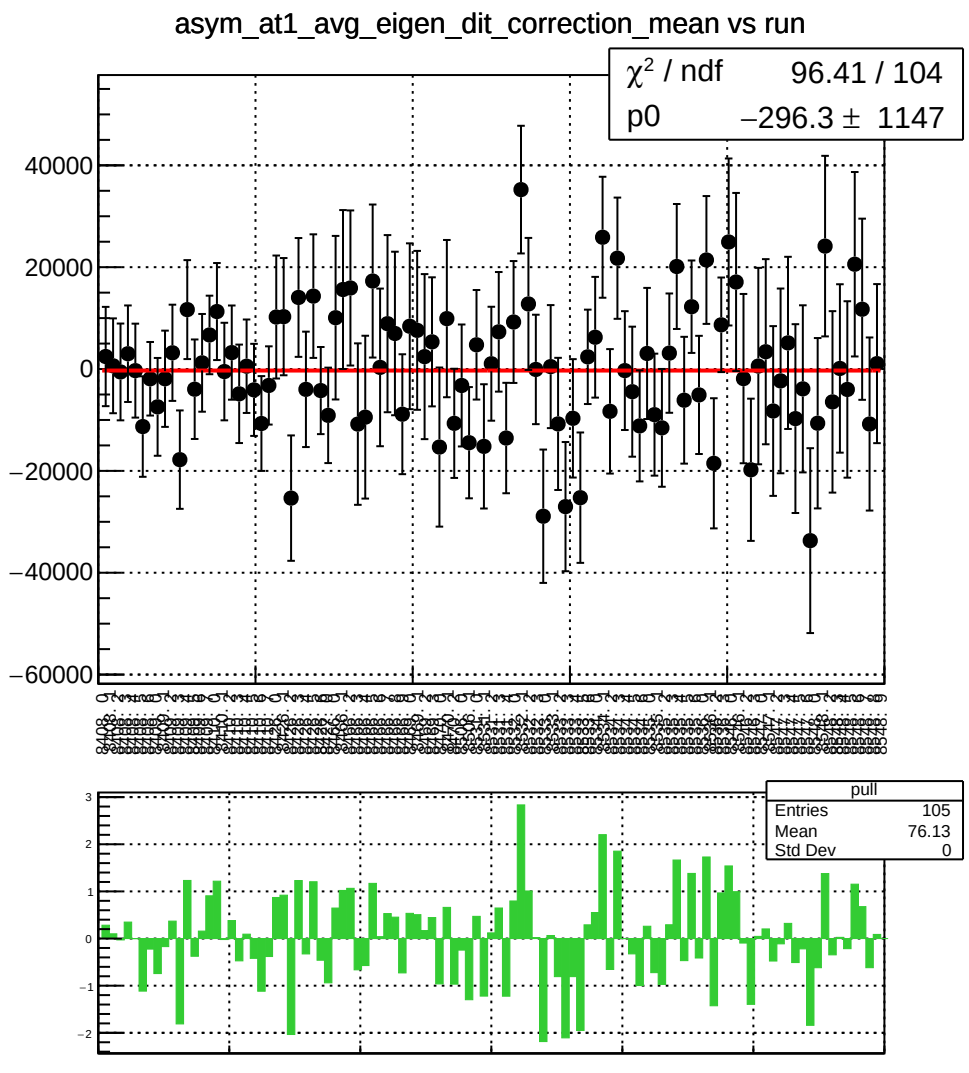

asym_at1_avg_dit_correction_mean vs run
χ² / ndf 96.41 / 104
p0 −296.3 ± 1147
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean 76.13
Std Dev 0
3
2
1
0
−1
−2

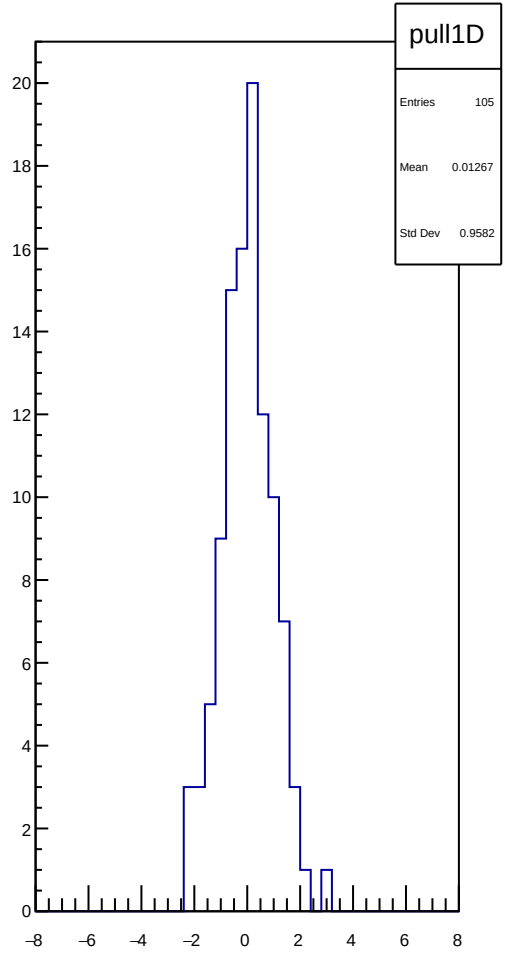

pull1D
Entries 105
Mean 0.01267
Std Dev 0.9582
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

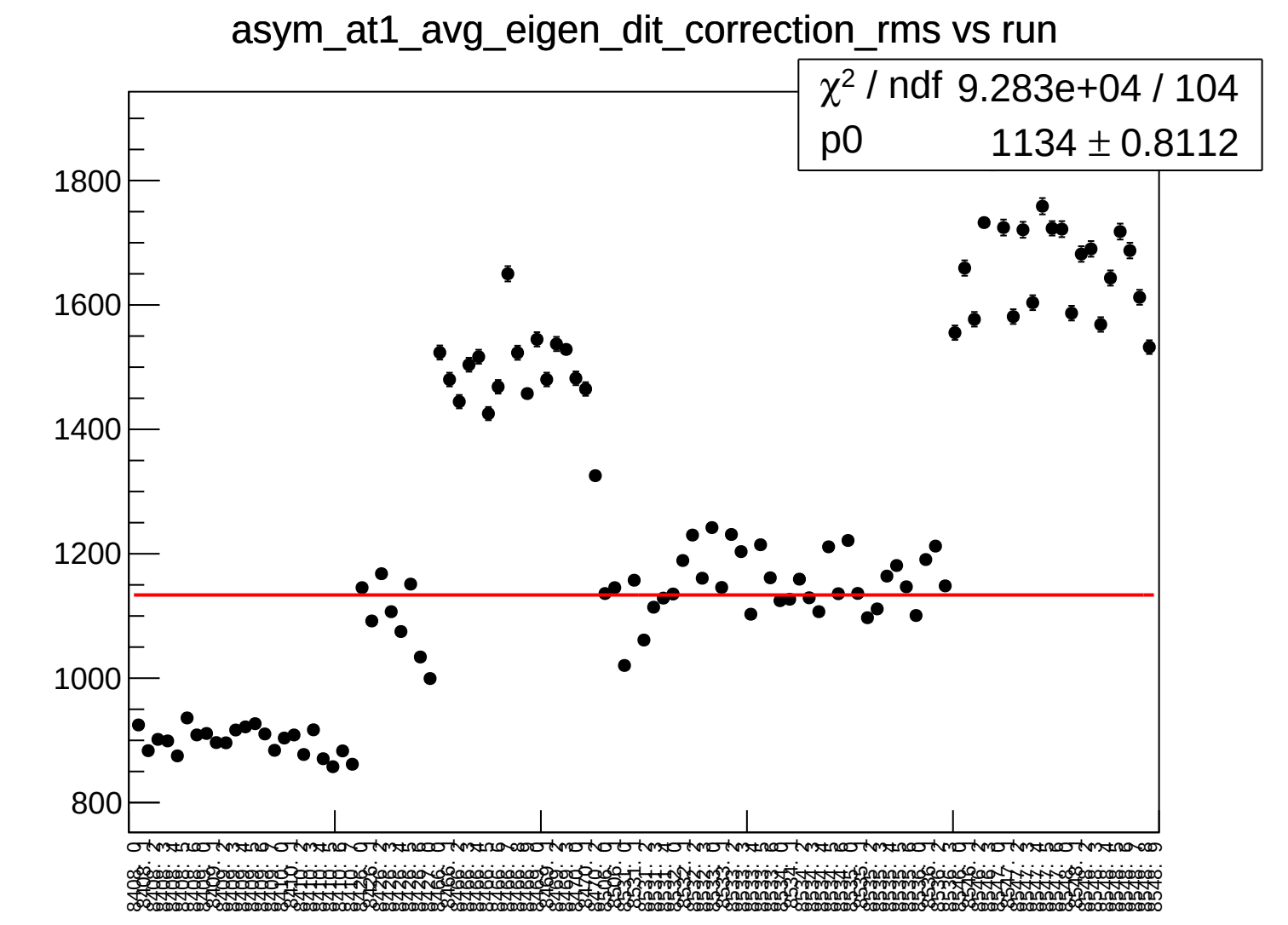

asym_at1_avg_dit_correction_rms vs run
χ² / ndf 9.283e+04 / 104
p0 1134 ± 0.8112
1800
1600
1400
1200
1000
800

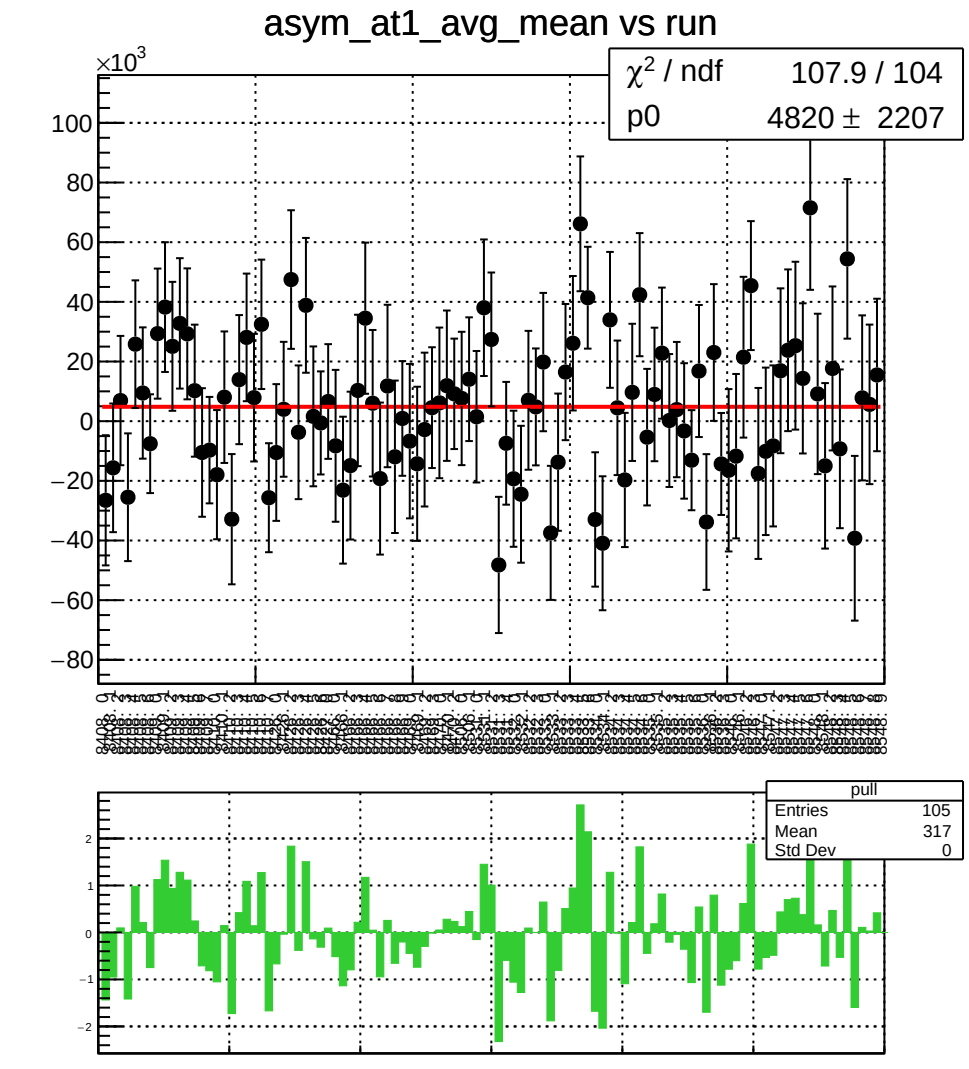

eigen_dit_asym_at1_avg_mean vs run
χ² / ndf 102.3 / 104
p0 4753 ± 1822
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean 266.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.008916
Std Dev 0.9871
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

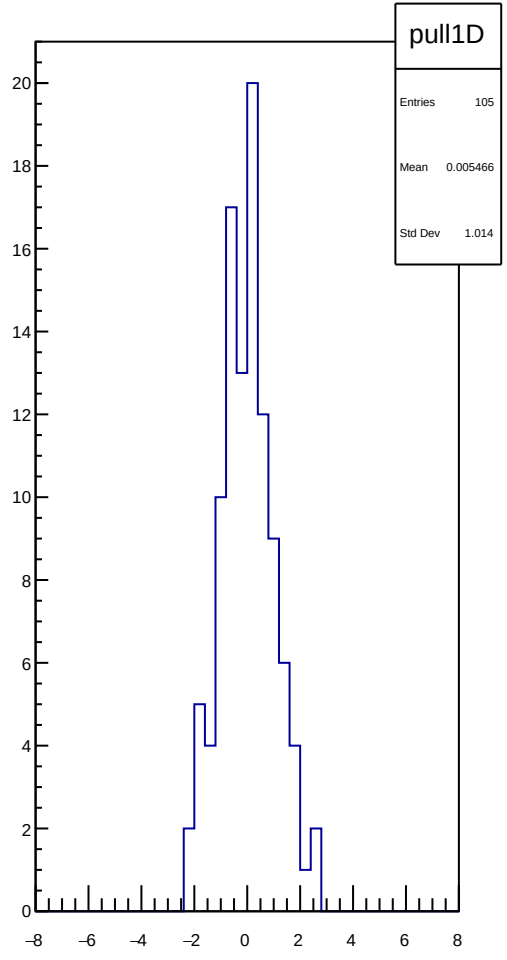

eigen_dit_asym_at1_avg_rms vs run
χ^2 / ndf 2395 / 104
p0 1842 ± 1.289
2050
2000
1950
1900
1850
1800
1750

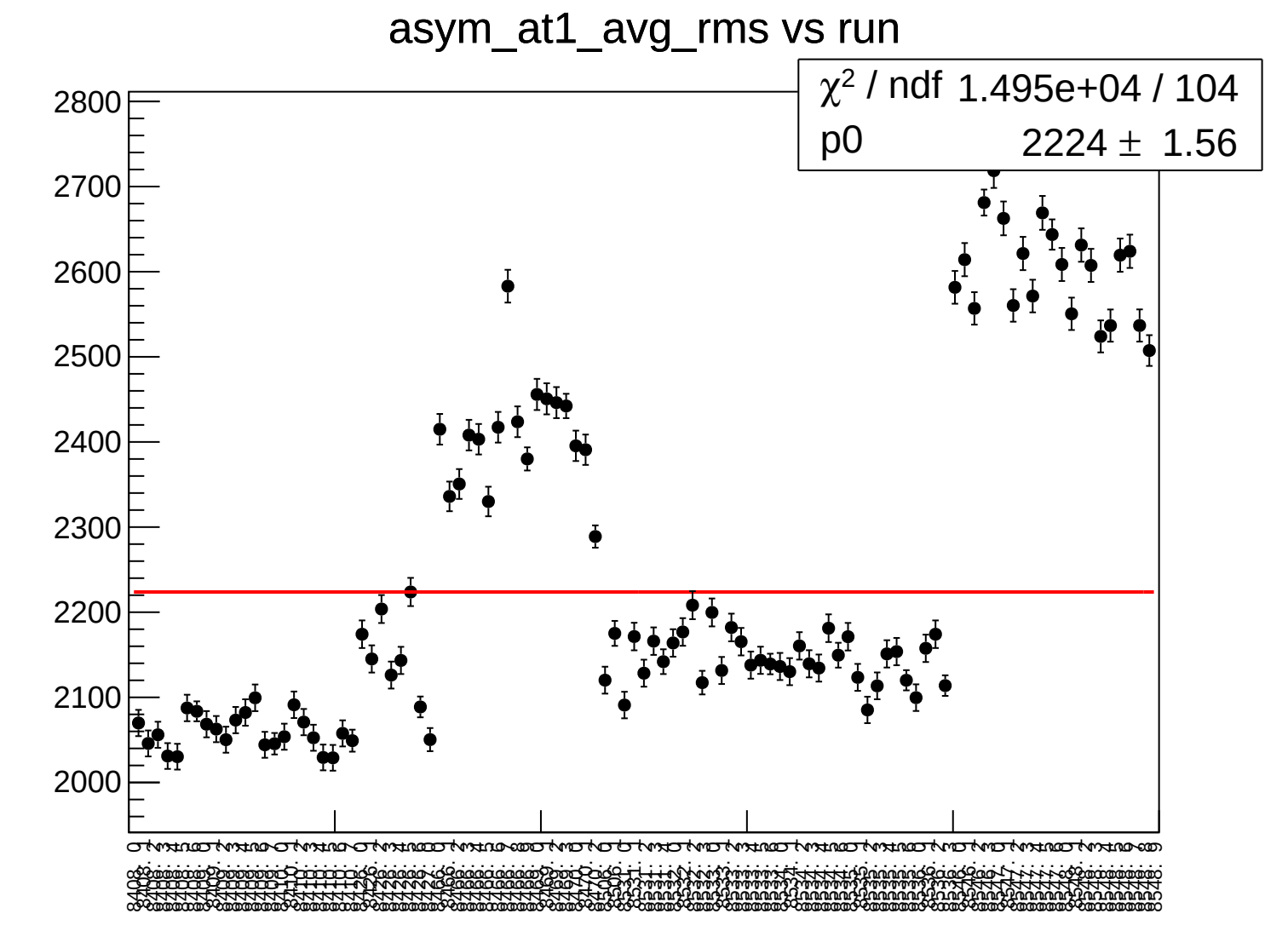

asym_at1_avg_eigen_dit_correction_mean vs run
χ² / ndf 96.41 / 104
p0 −296.3 ± 1147
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean 76.13
Std Dev 0
3
2
1
0
−1
−2

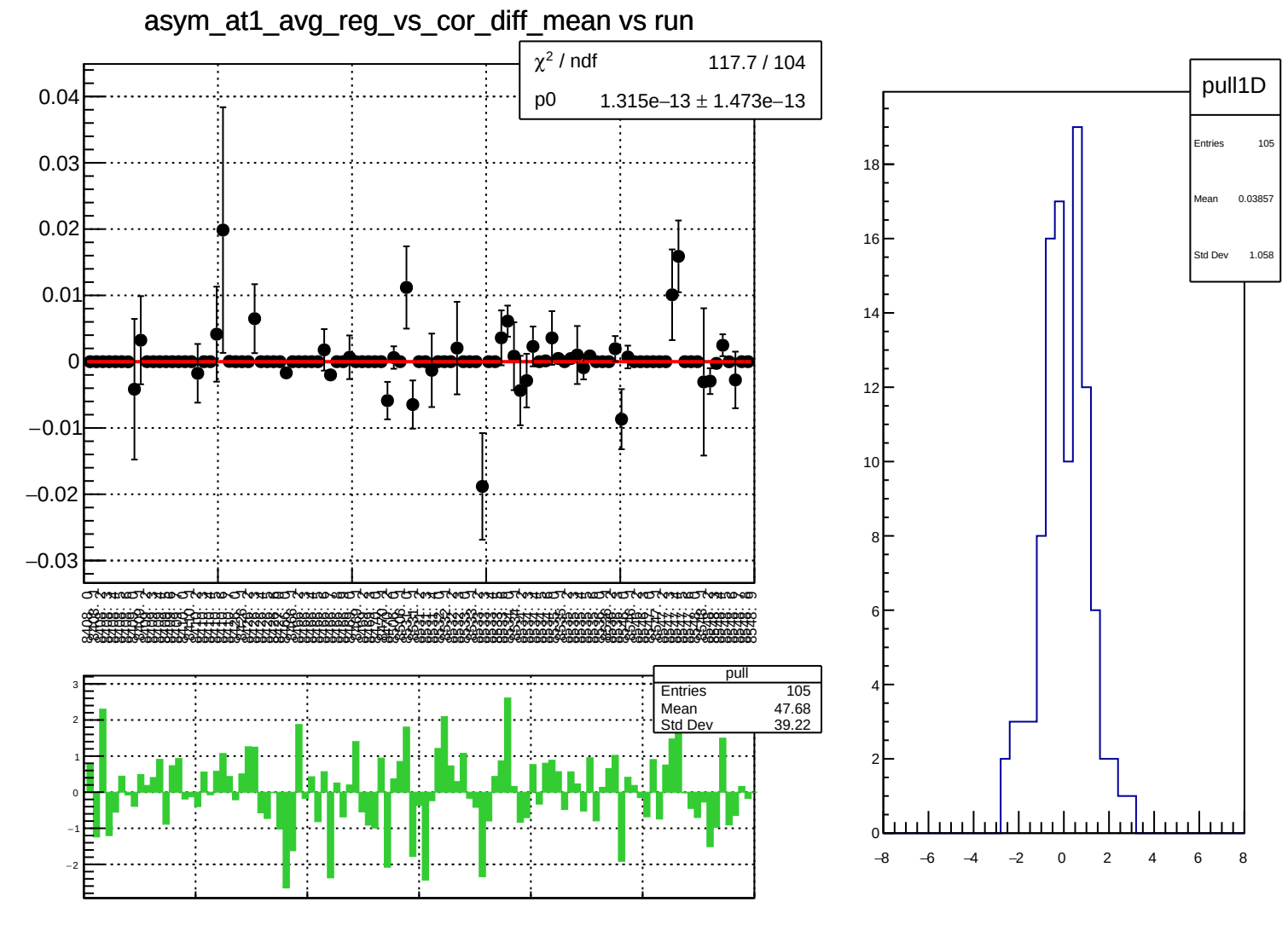

pull1D
Entries 105
Mean 0.01267
Std Dev 0.9582
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

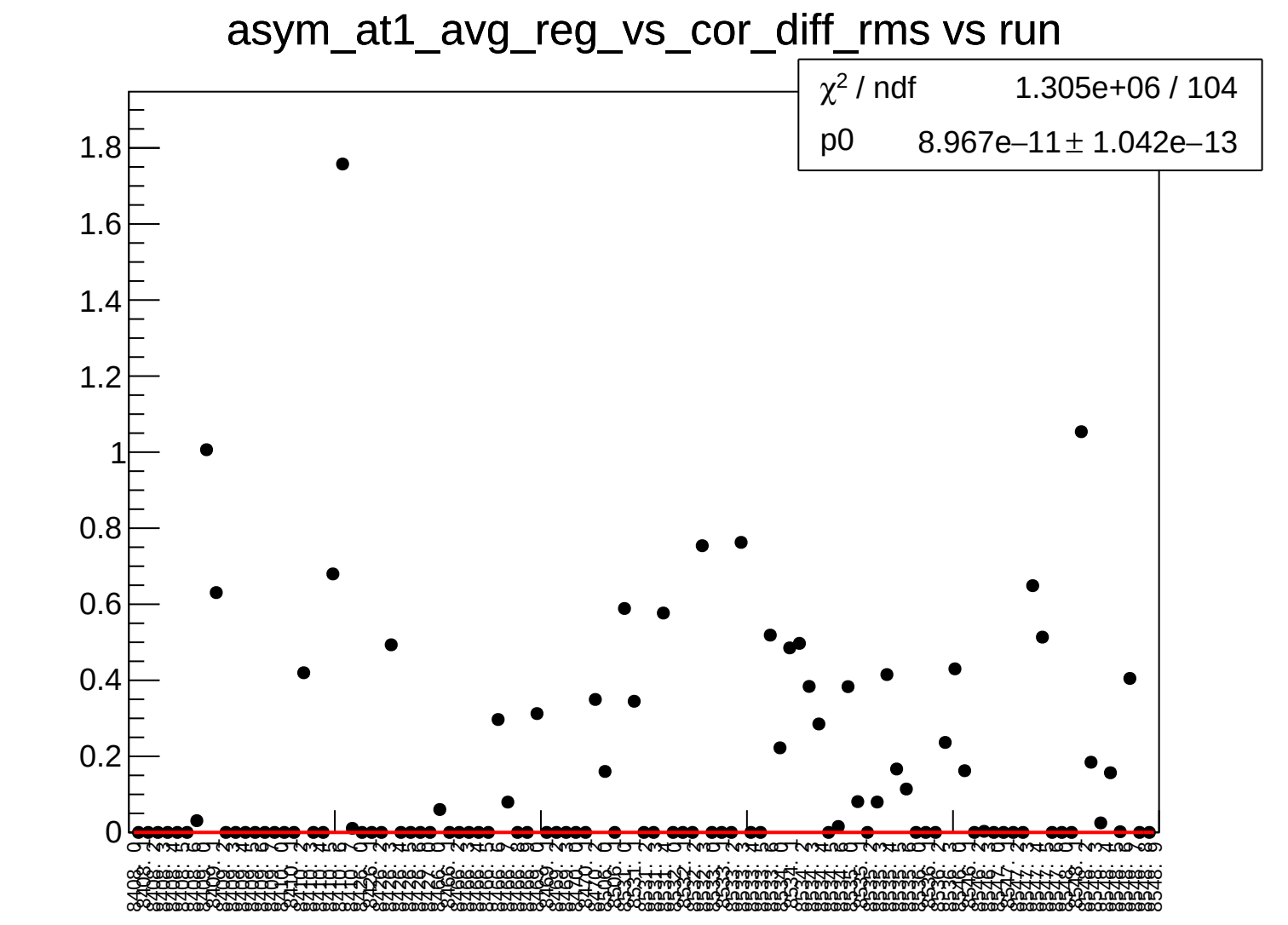

asym_at1_avg_eigen_dit_correction_rms vs run
χ² / ndf 9.283e+04 / 104
p0 1134 ± 0.8112
1800
1600
1400
1200
1000
800

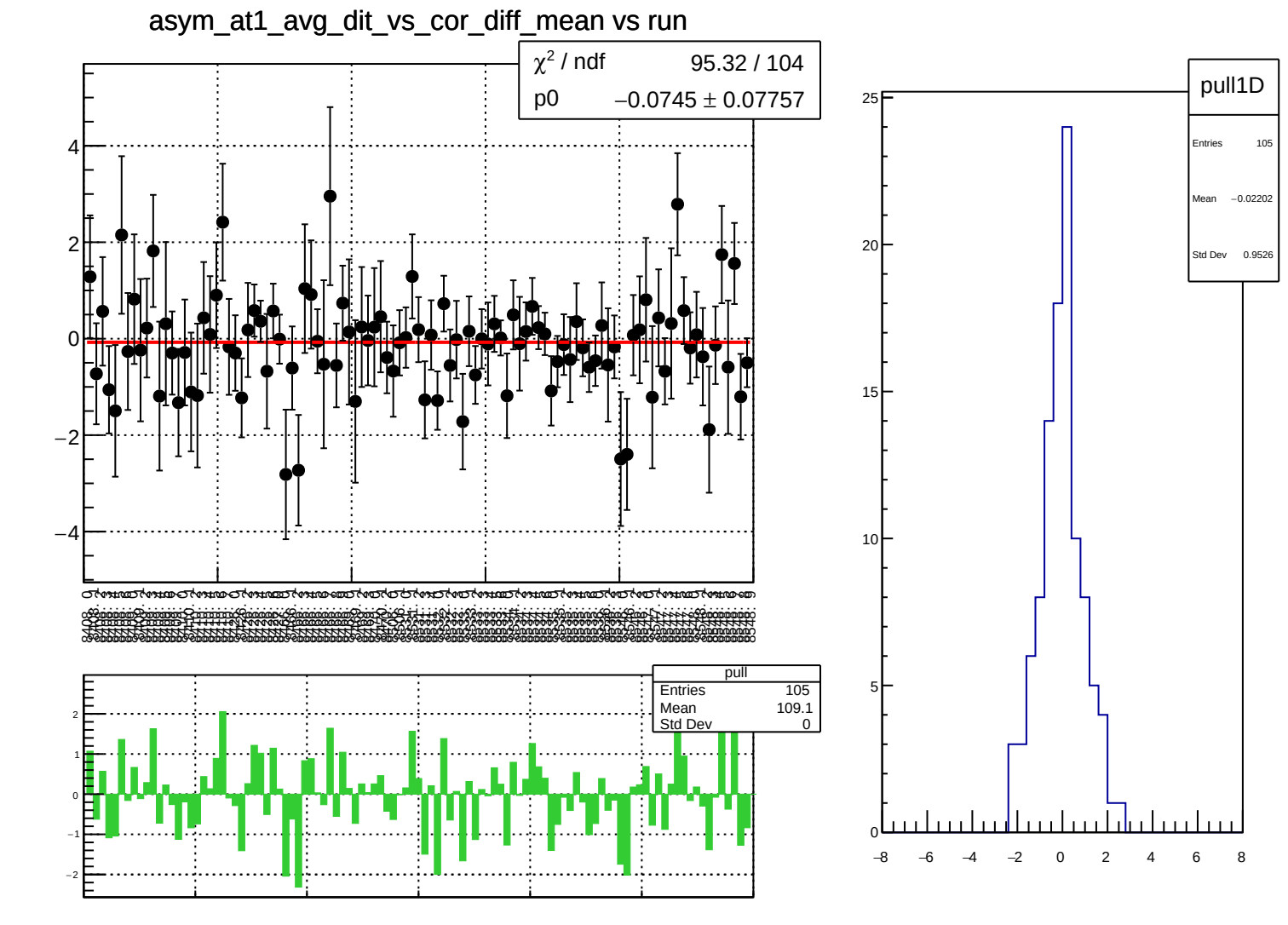

asym_at1_avg_mean vs run
×10^3
χ² / ndf 107.9 / 104
p0 4820 ± 2207
100
80
60
40
20
0
−20
−40
−60
−80
pull
Entries 105
Mean 317
Std Dev 0
2
1
0
−1
−2

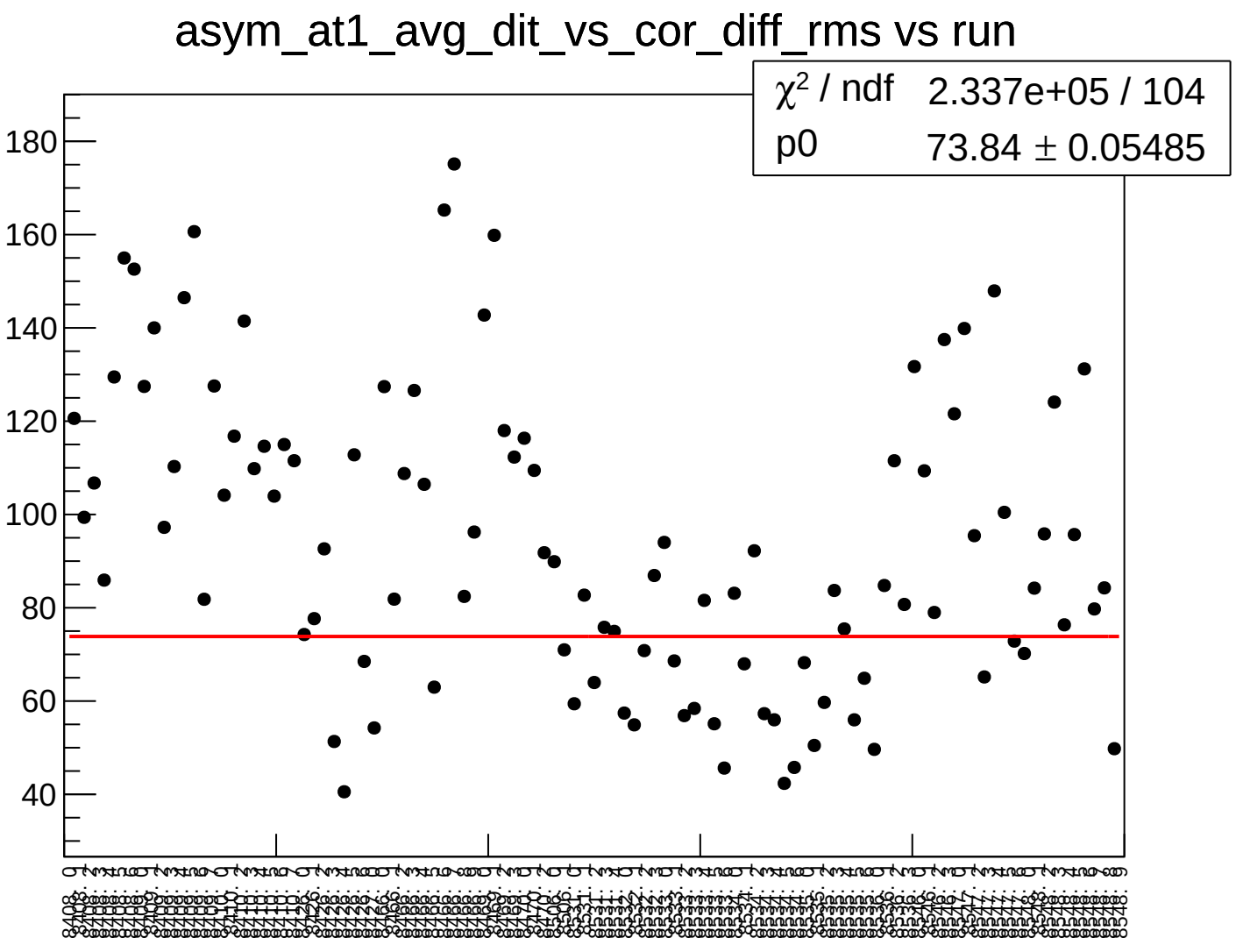

pull1D
Entries 105
Mean 0.005466
Std Dev 1.014
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

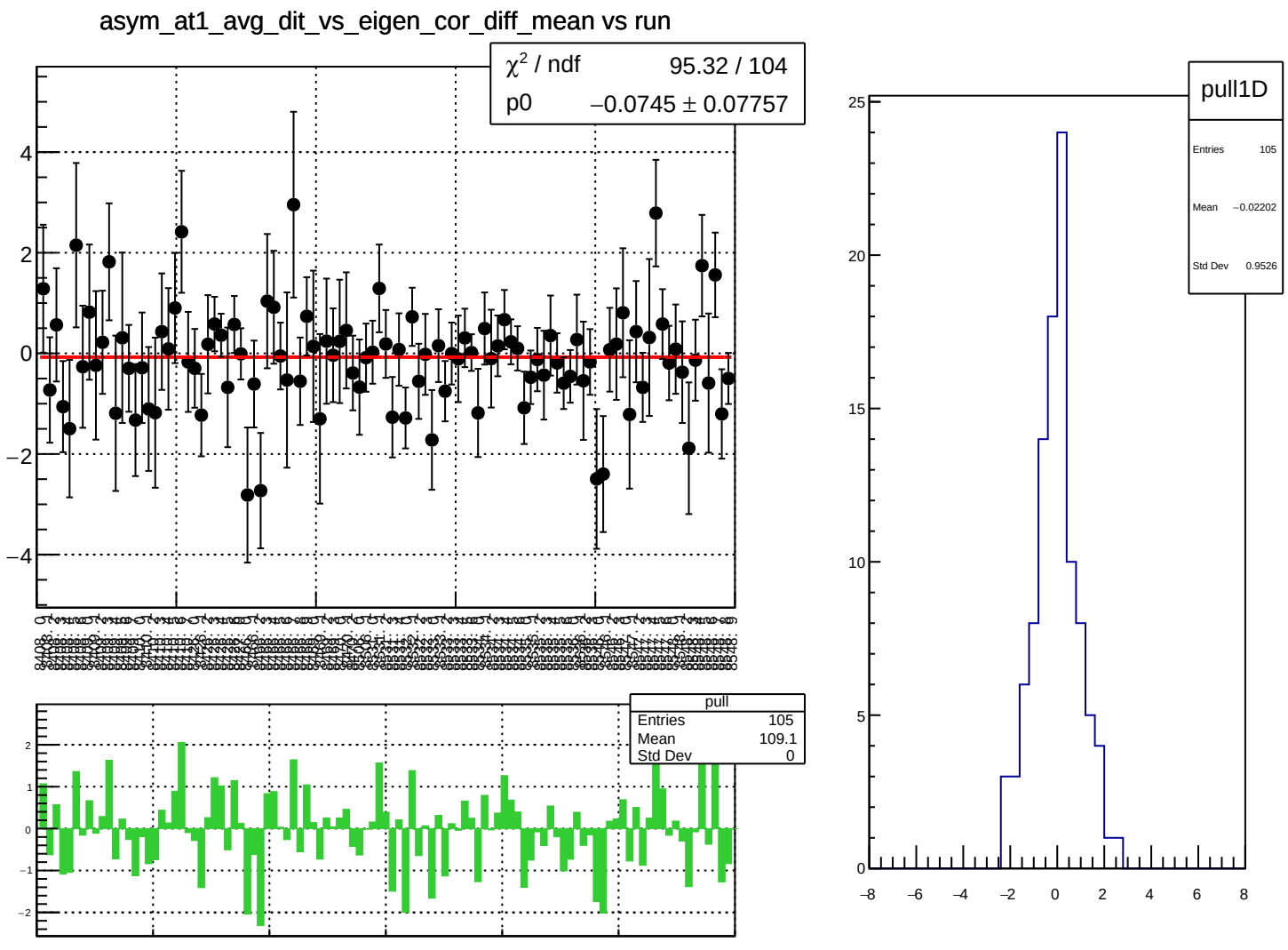

asym_at1_avg_rms vs run
χ² / ndf 1.495e+04 / 104
p0 2224 ± 1.56
2800
2700
2600
2500
2400
2300
2200
2100
2000

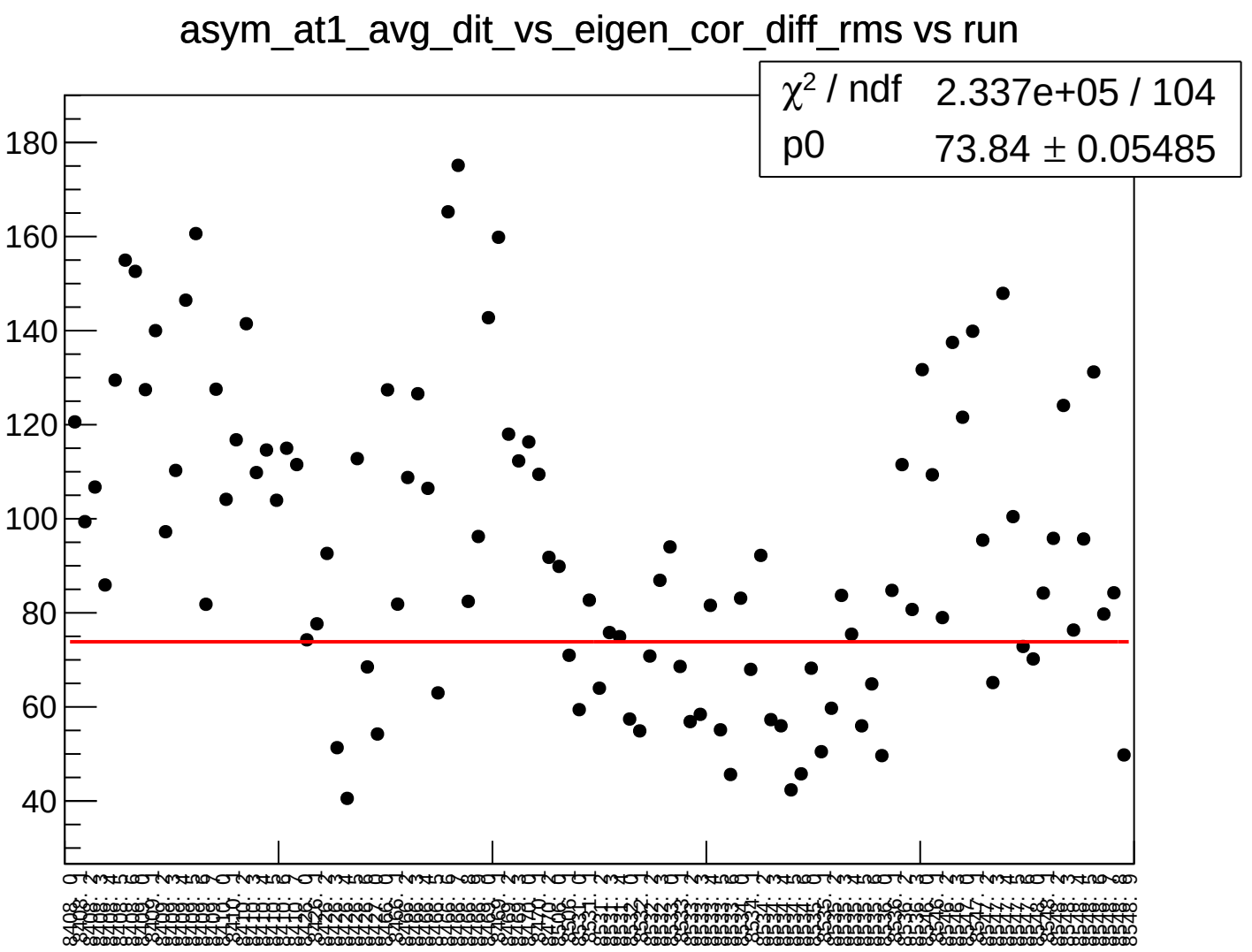

asym_at1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 117.7 / 104
p0 1.315e−13 ± 1.473e−13
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 105
Mean 47.68
Std Dev 39.22
3
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.03857
Std Dev 1.058
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

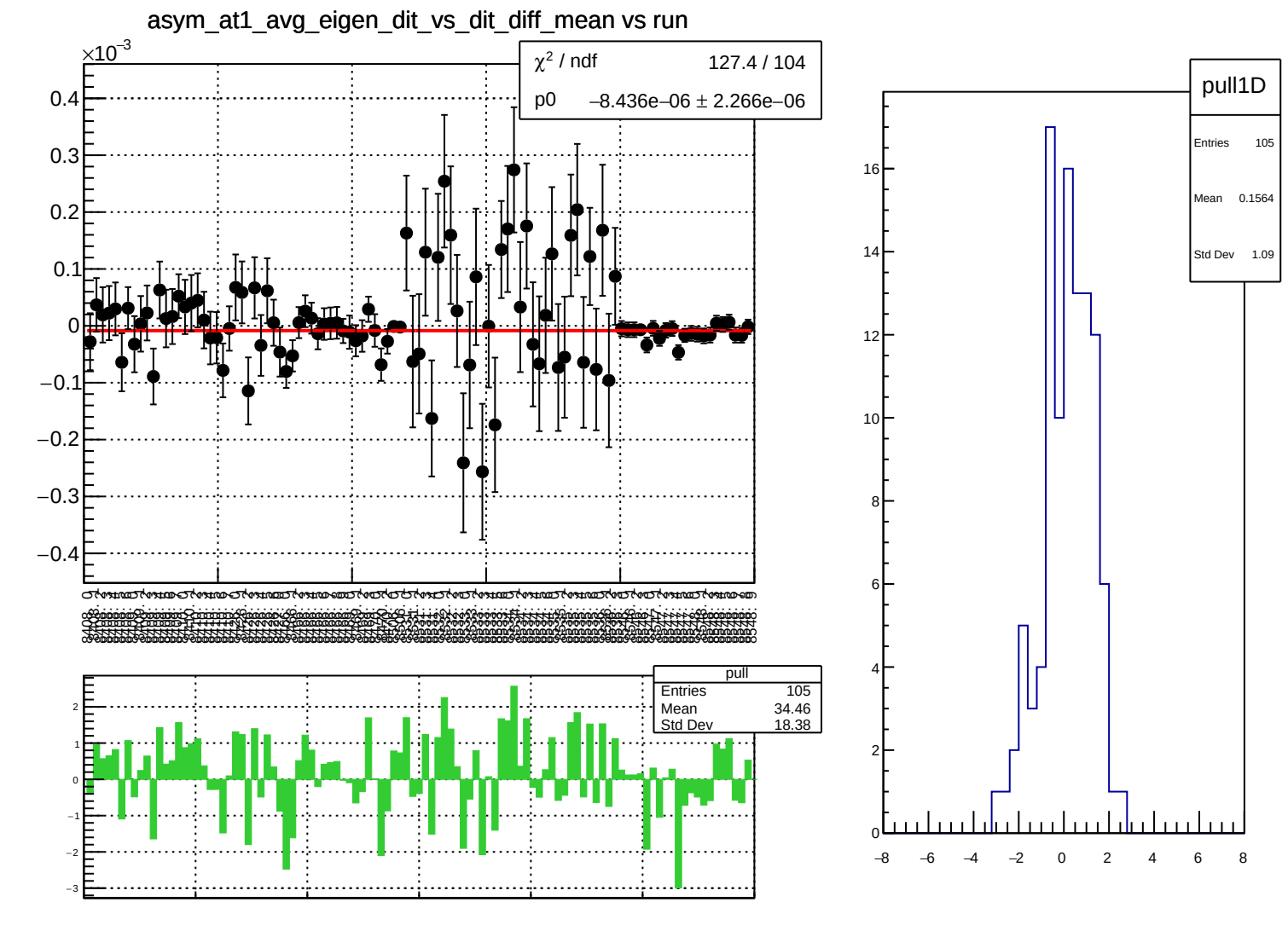

asym_at1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.305e+06 / 104
p0 8.967e−11 ± 1.042e−13
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

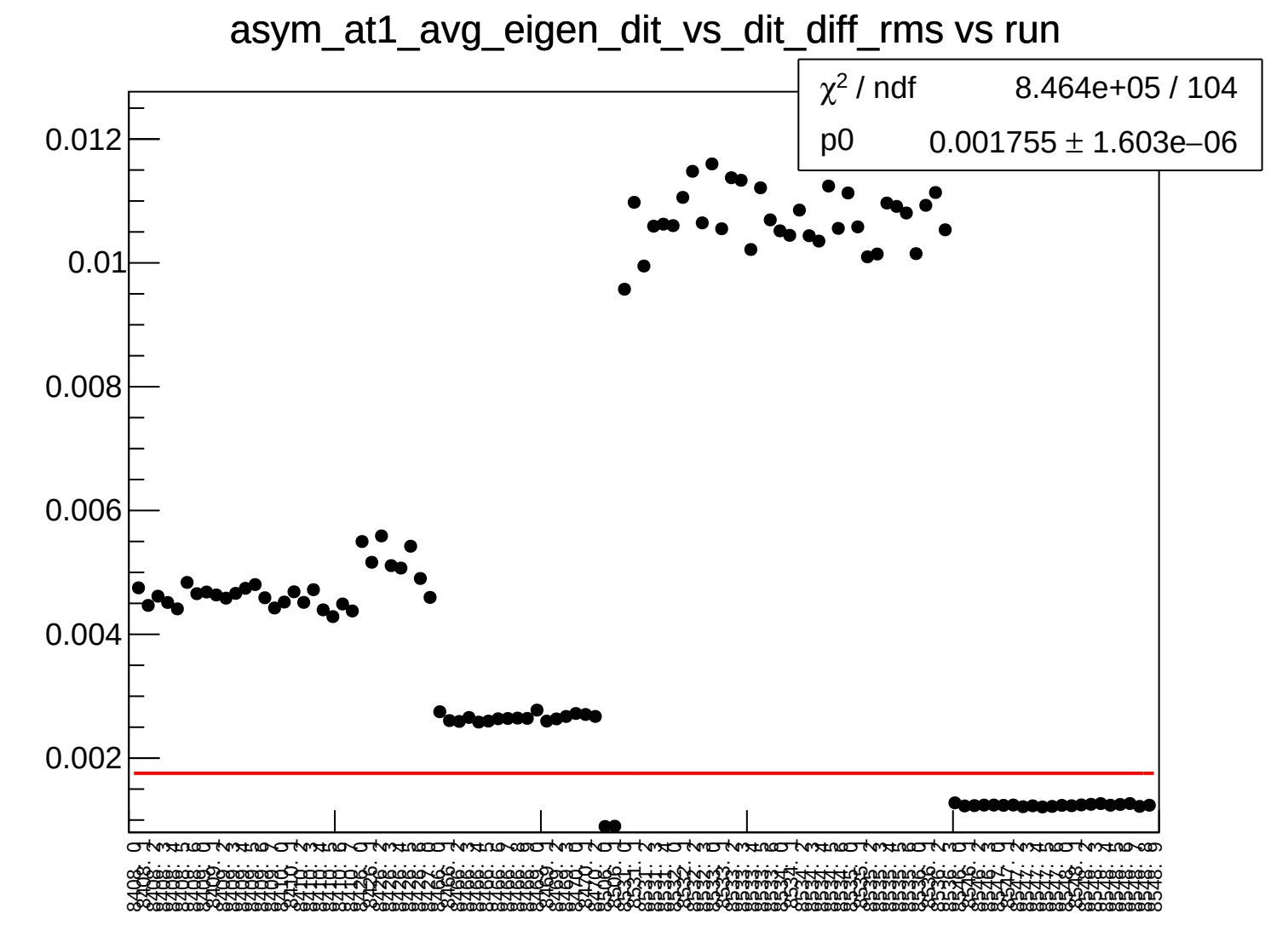

asym_at1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 95.32 / 104
p0 −0.0745 ± 0.07757
pull
Entries 105
Mean 109.1
Std Dev 0
pull1D
Entries 105
Mean −0.02202
Std Dev 0.9526

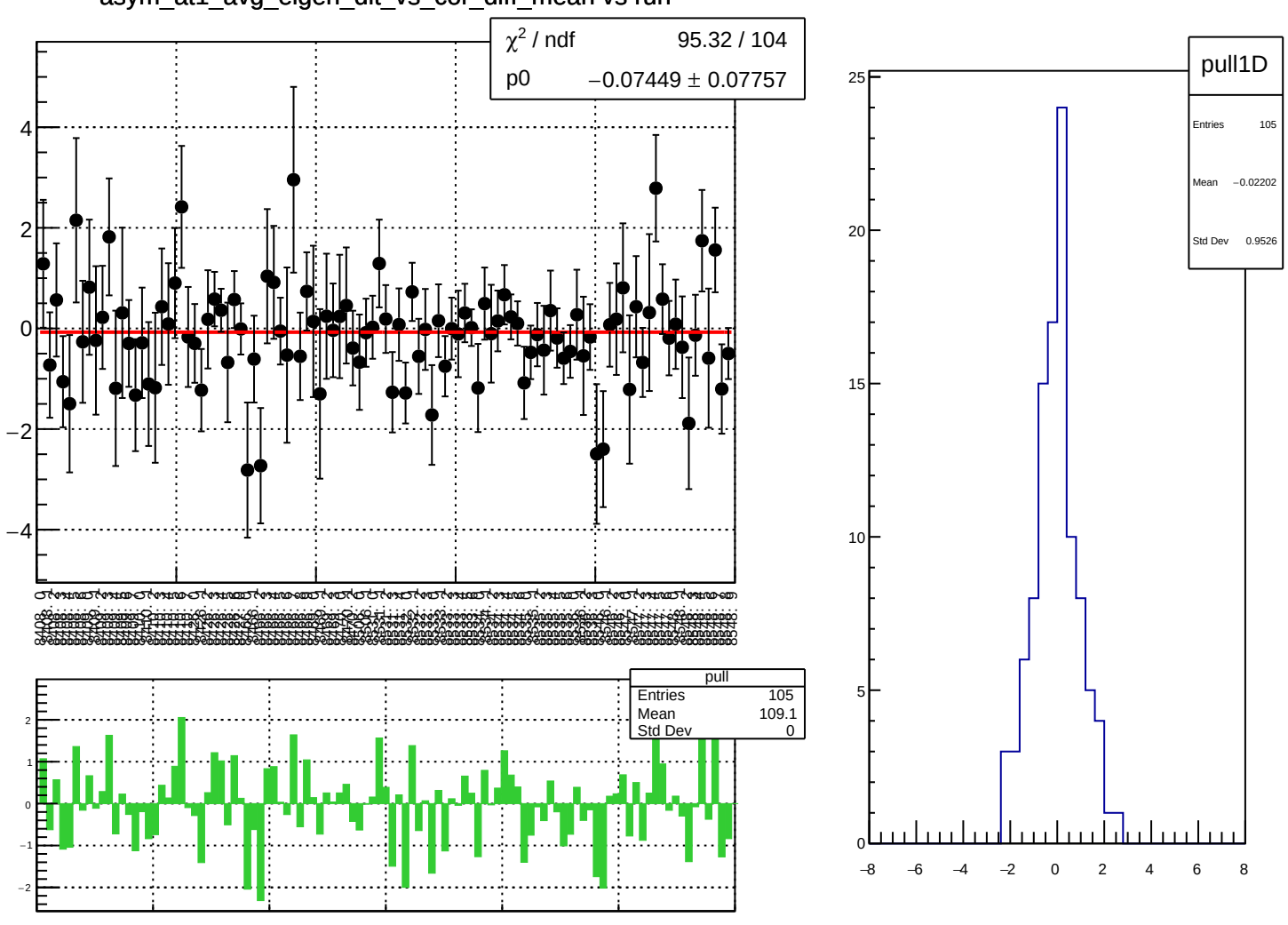

asym_at1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.337e+05 / 104
p0 73.84 ± 0.05485
180
160
140
120
100
80
60
40

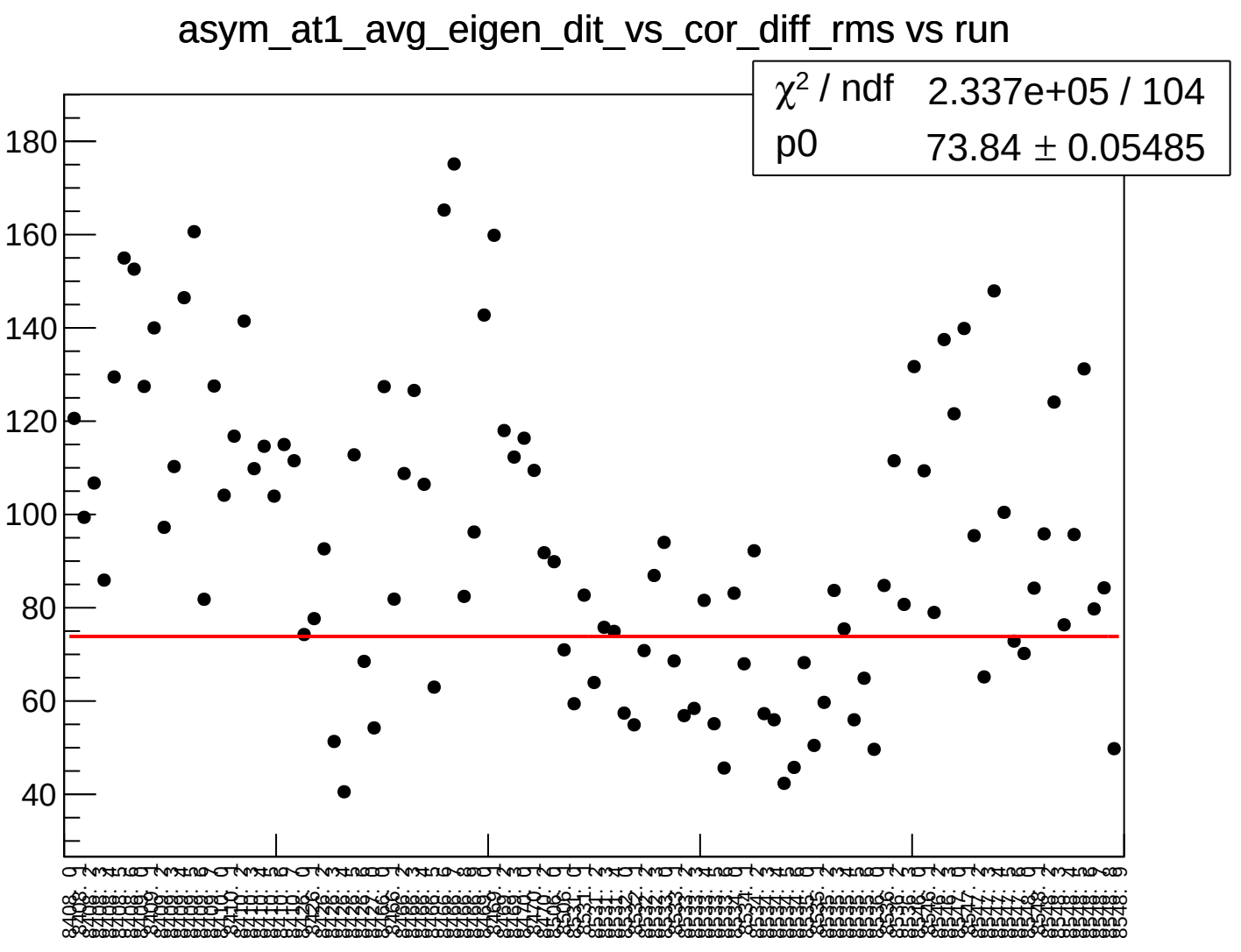

asym_at1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.32 / 104
p0 −0.0745 ± 0.07757
pull
Entries 105
Mean 109.1
Std Dev 0
pull1D
Entries 105
Mean −0.02202
Std Dev 0.9526

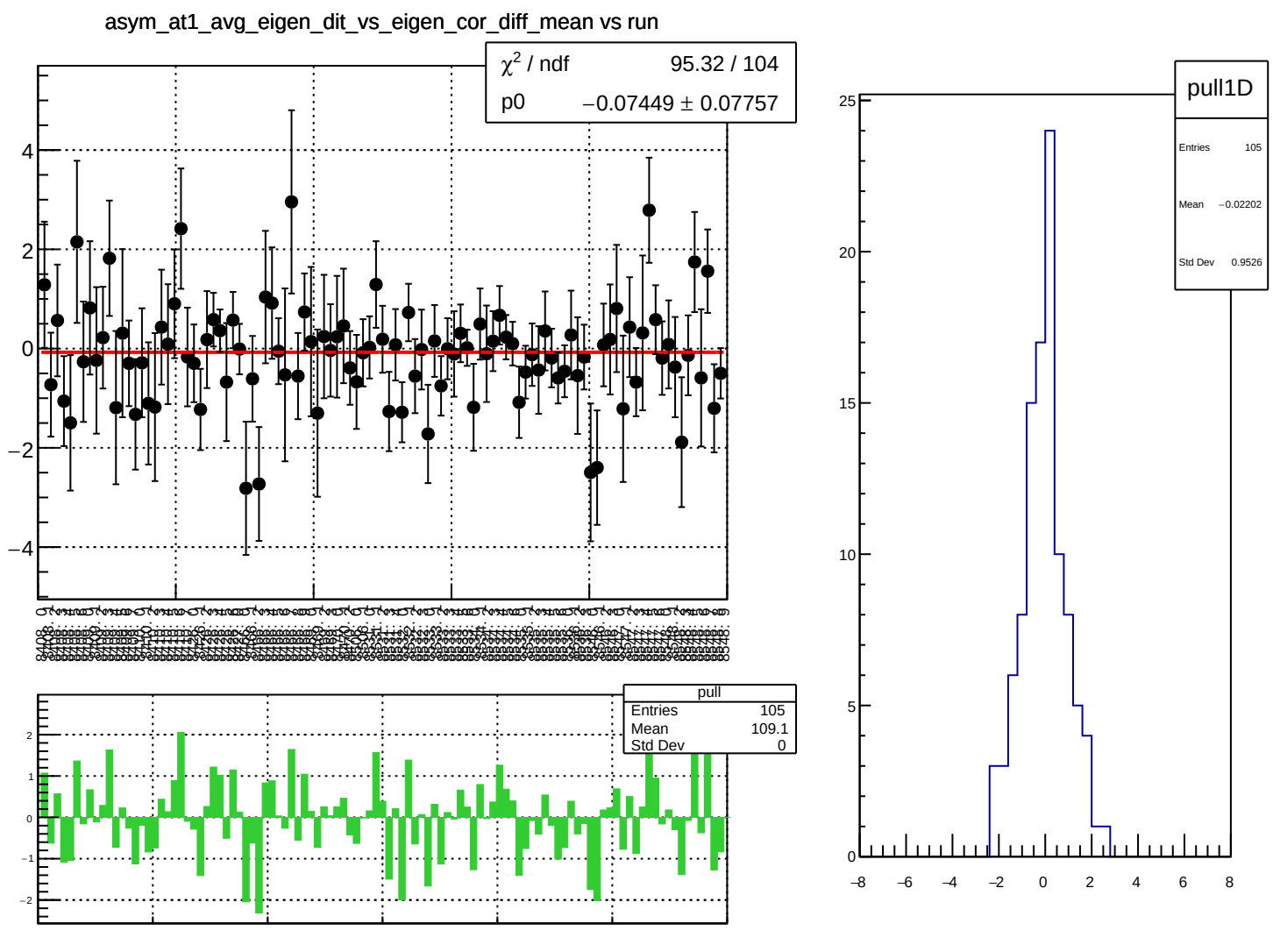

asym_at1_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.337e+05 / 104
p0 73.84 ± 0.05485
180
160
140
120
100
80
60
40

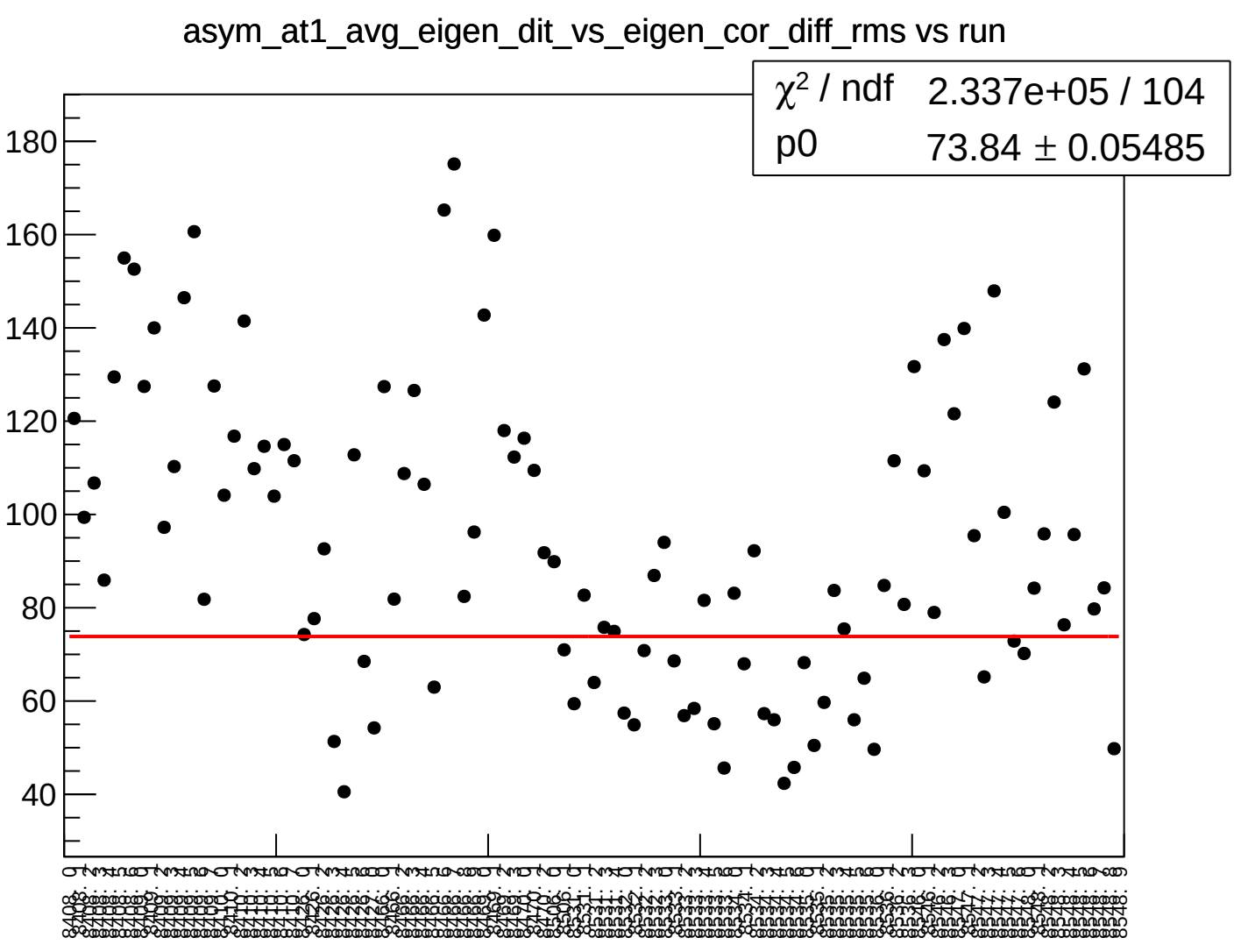

asym_at1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 127.4 / 104
p0 −8.436e−06 ± 2.266e−06
pull
Entries 105
Mean 34.46
Std Dev 18.38
pull1D
Entries 105
Mean 0.1564
Std Dev 1.09

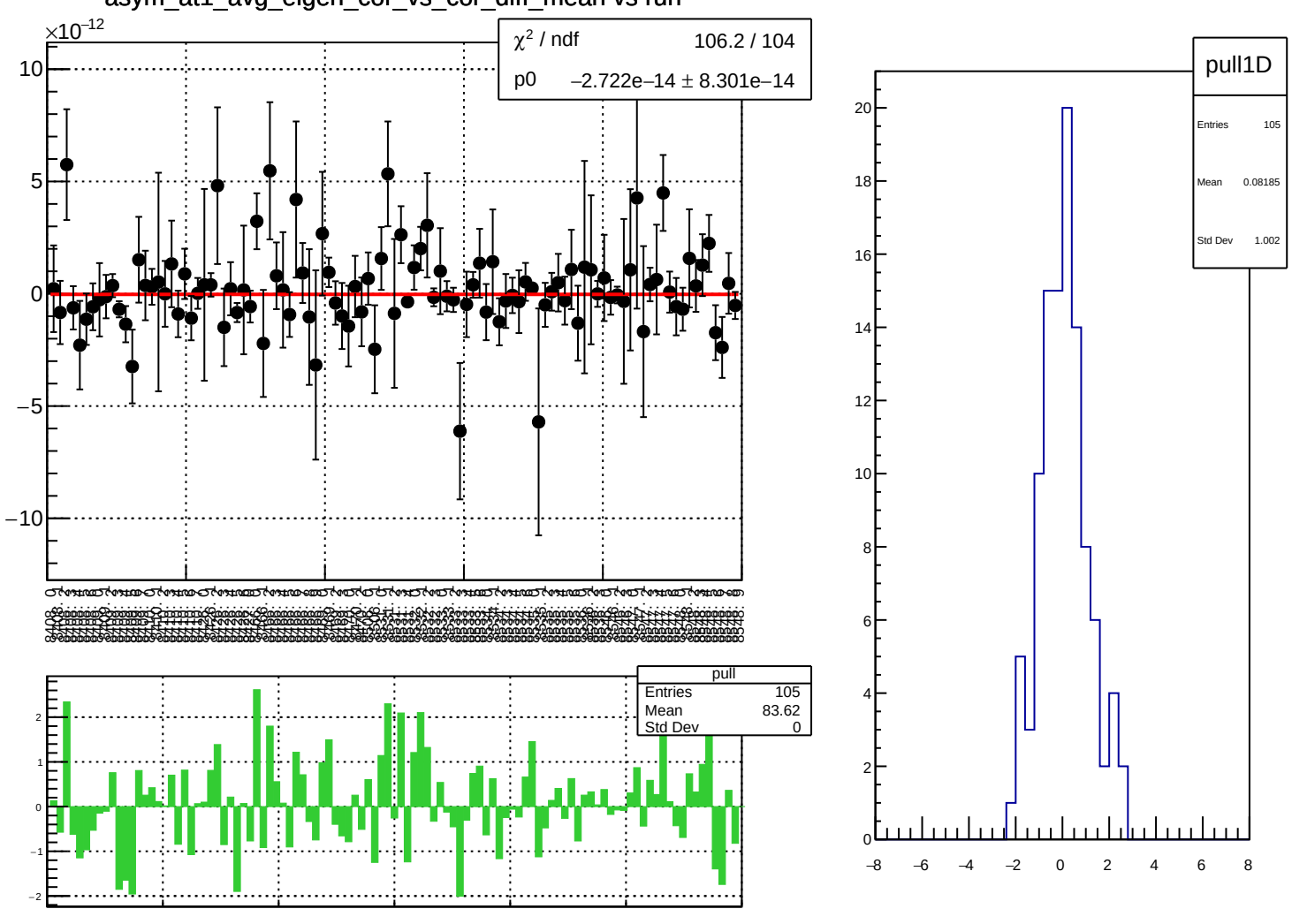

asym_at1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.464e+05 / 104
p0 0.001755 ± 1.603e−06
0.012
0.01
0.008
0.006
0.004
0.002

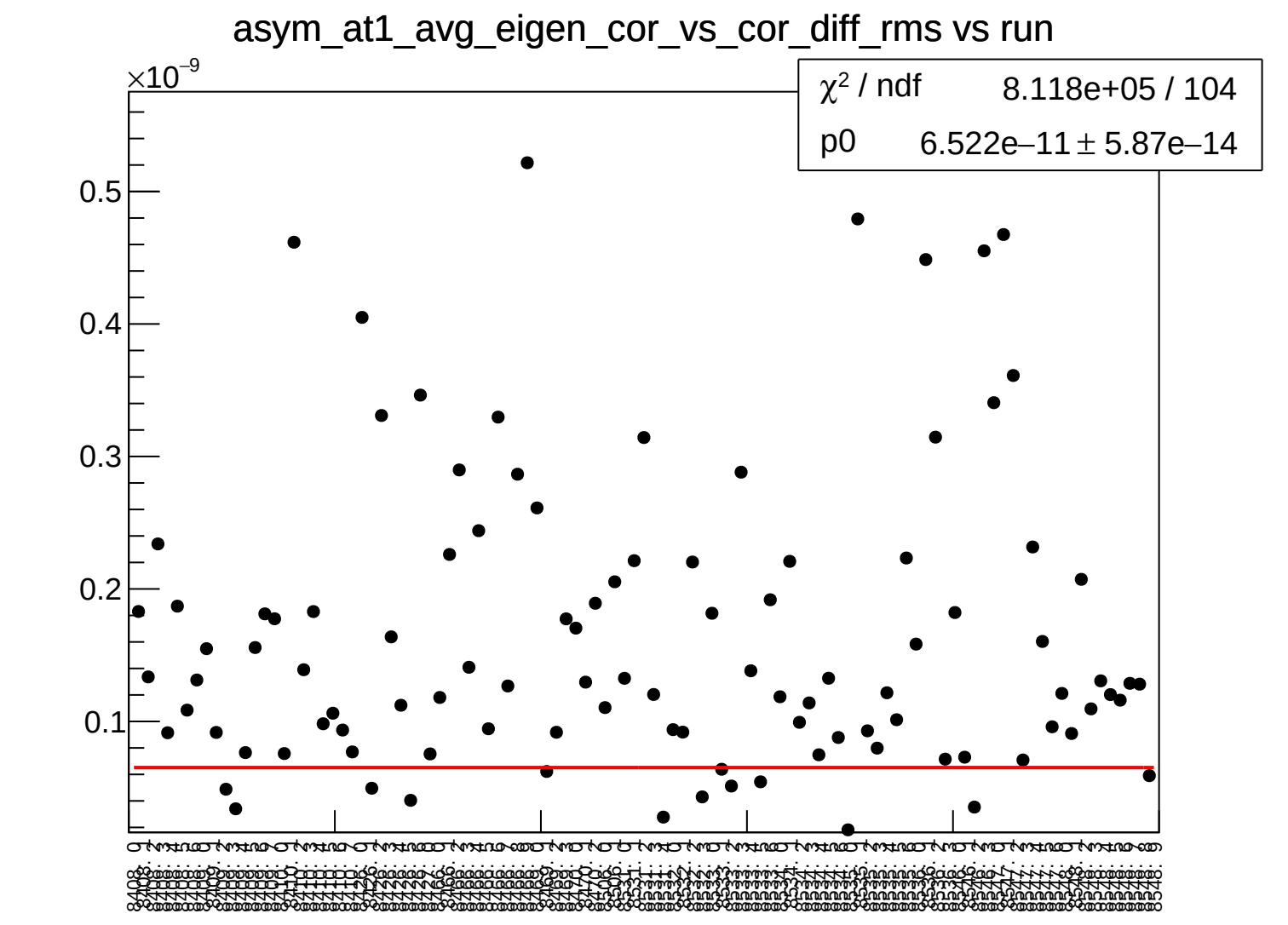

asym_at1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 95.32 / 104
p0 −0.07449 ± 0.07757
pull
Entries 105
Mean 109.1
Std Dev 0
pull1D
Entries 105
Mean −0.02202
Std Dev 0.9526

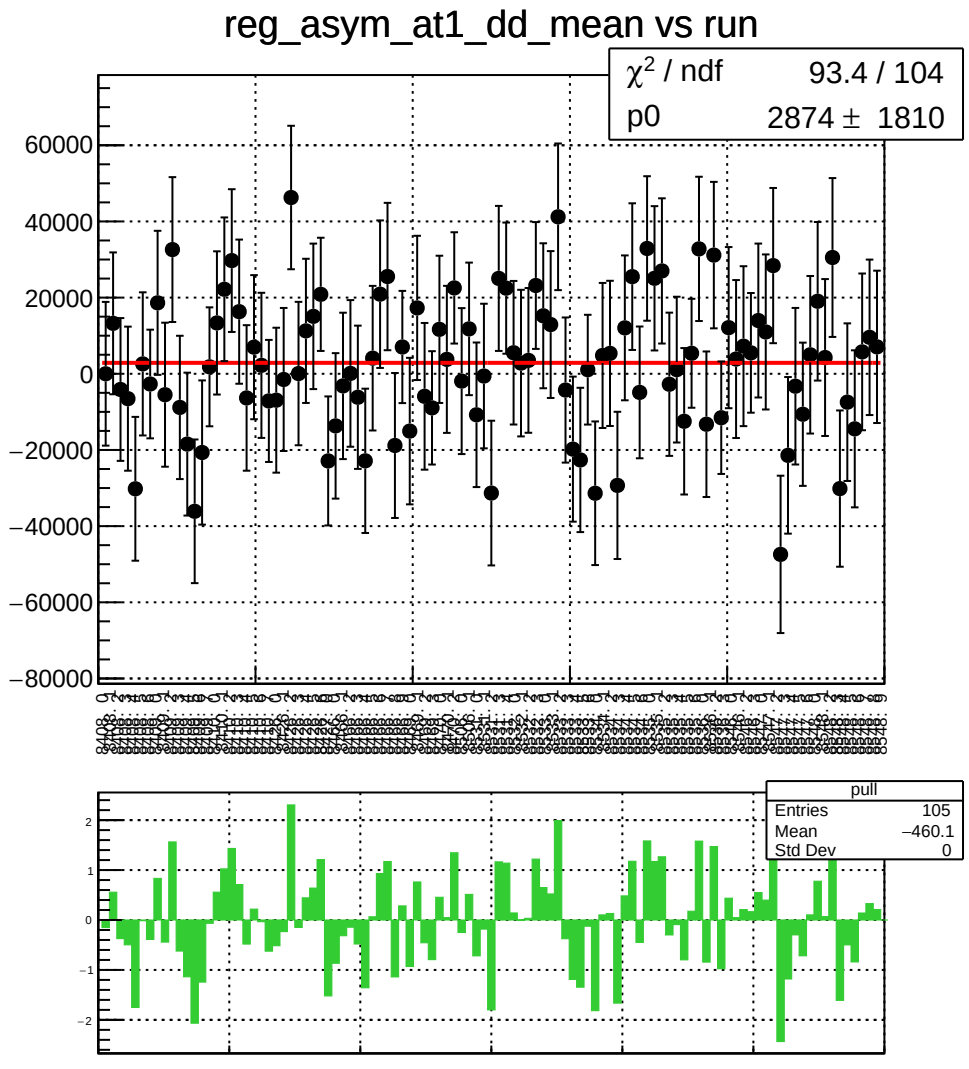

asym_at1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.337e+05 / 104
p0 73.84 ± 0.05485
180
160
140
120
100
80
60
40

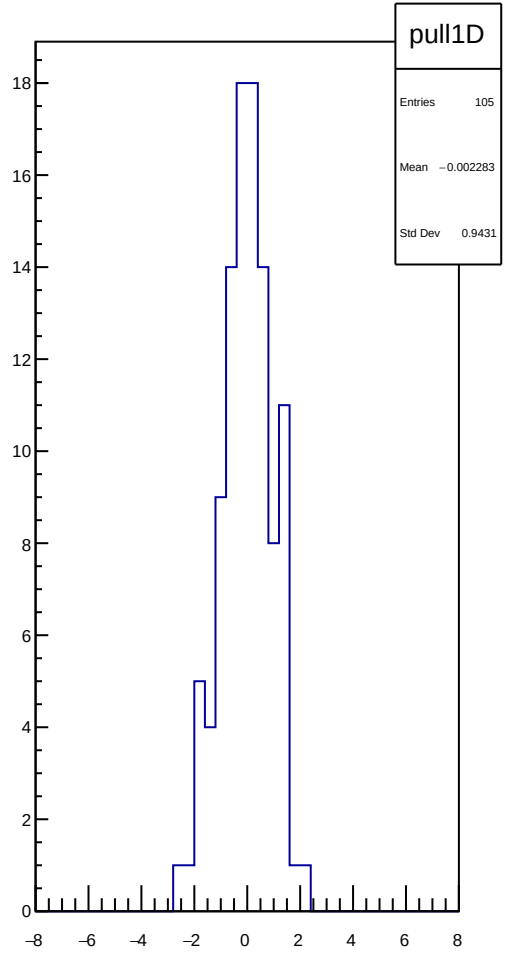

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 95.32 / 104
p0 −0.07449 ± 0.07757
pull
Entries 105
Mean 109.1
Std Dev 0
pull1D
Entries 105
Mean −0.02202
Std Dev 0.9526

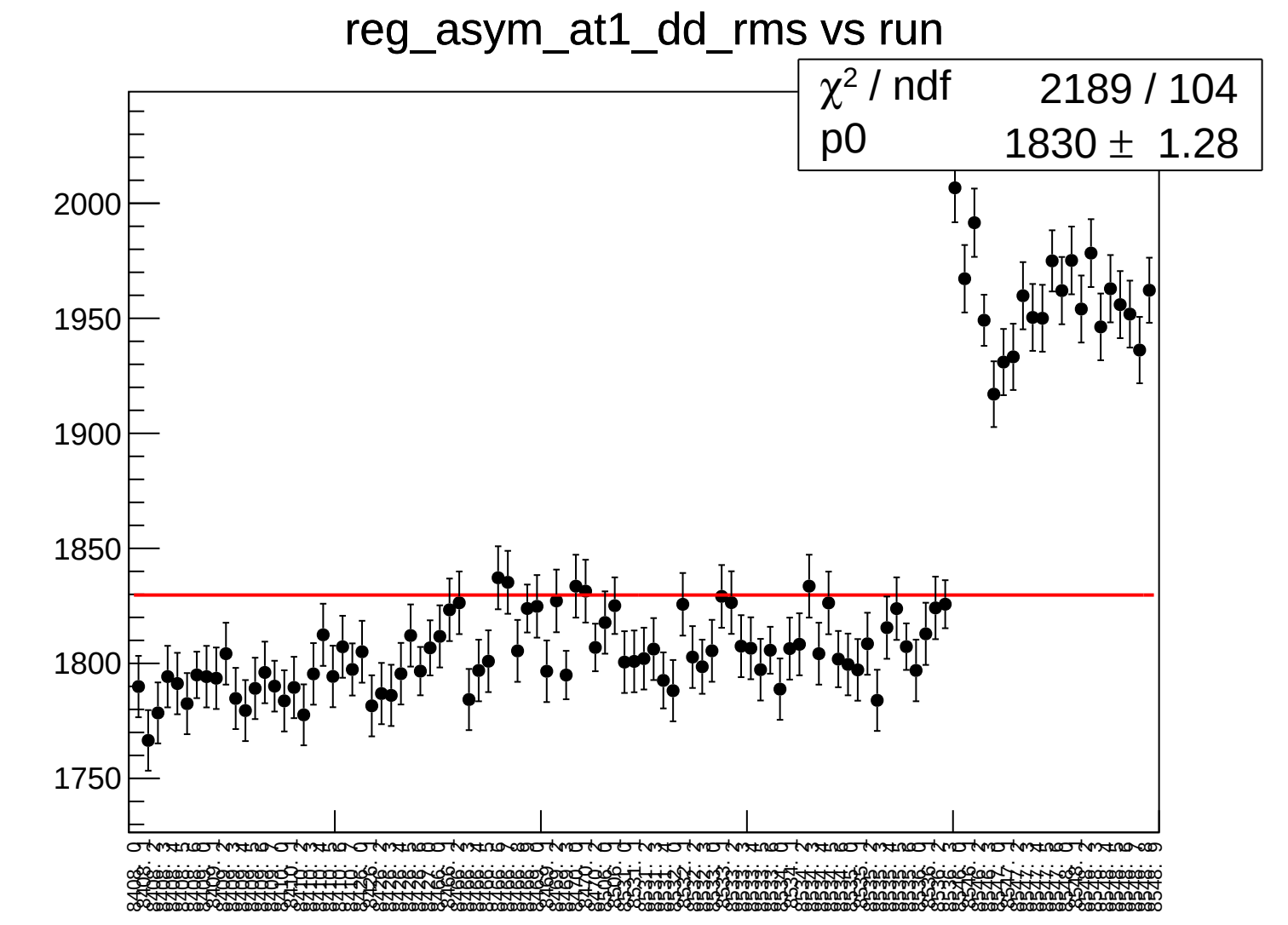

asym_at1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.337e+05 / 104
p0 73.84 ± 0.05485
180
160
140
120
100
80
60
40

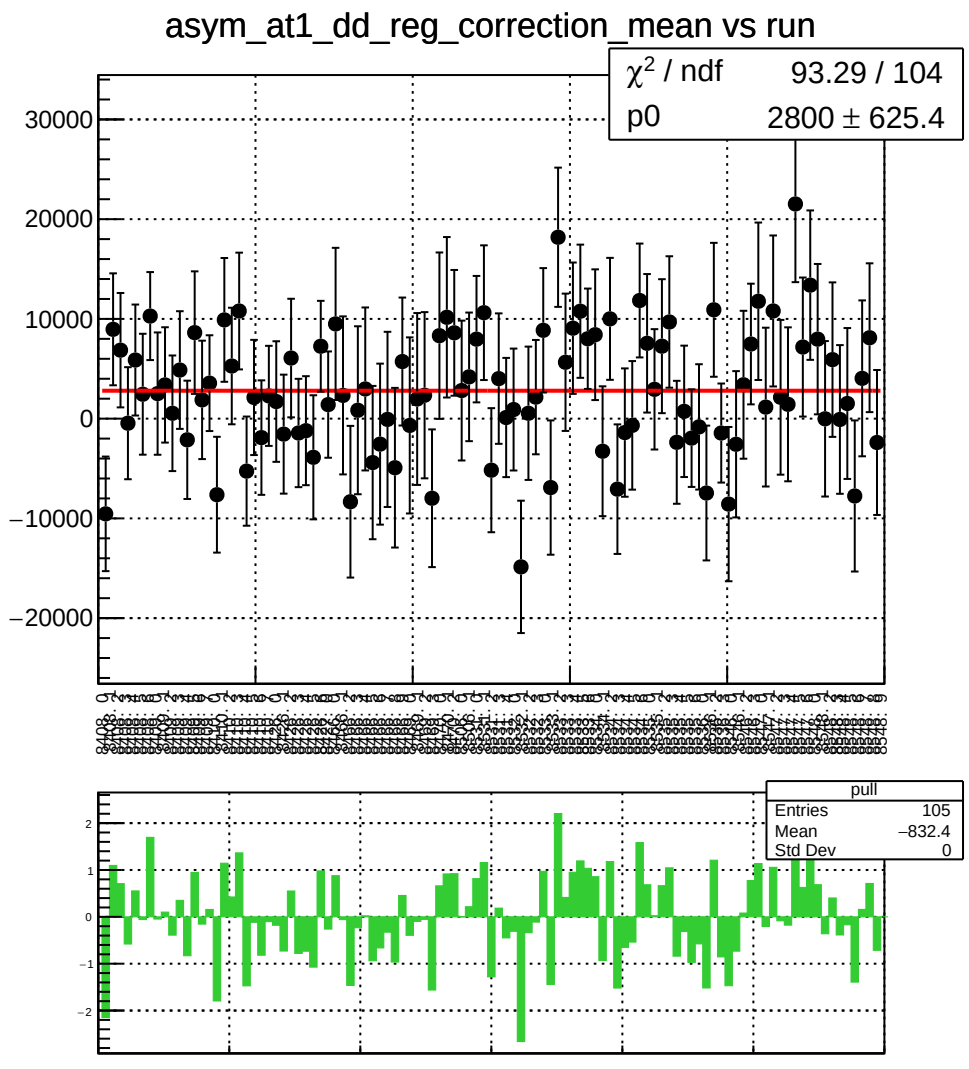

asym_at1_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 106.2 / 104
p0 −2.722e−14 ± 8.301e−14
pull
Entries 105
Mean 83.62
Std Dev 0
pull1D
Entries 105
Mean 0.08185
Std Dev 1.002

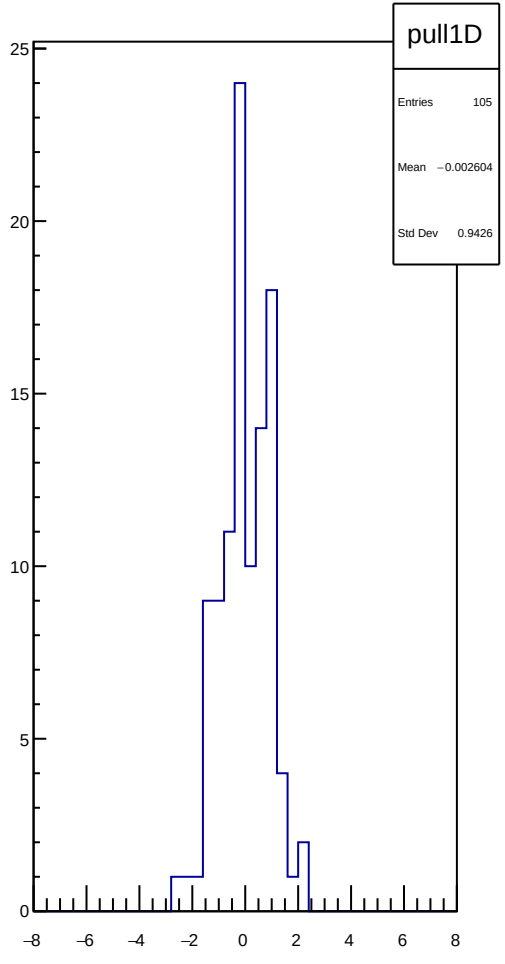

asym_at1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.118e+05 / 104
p0 6.522e−11 ± 5.87e−14
0.5
0.4
0.3
0.2
0.1

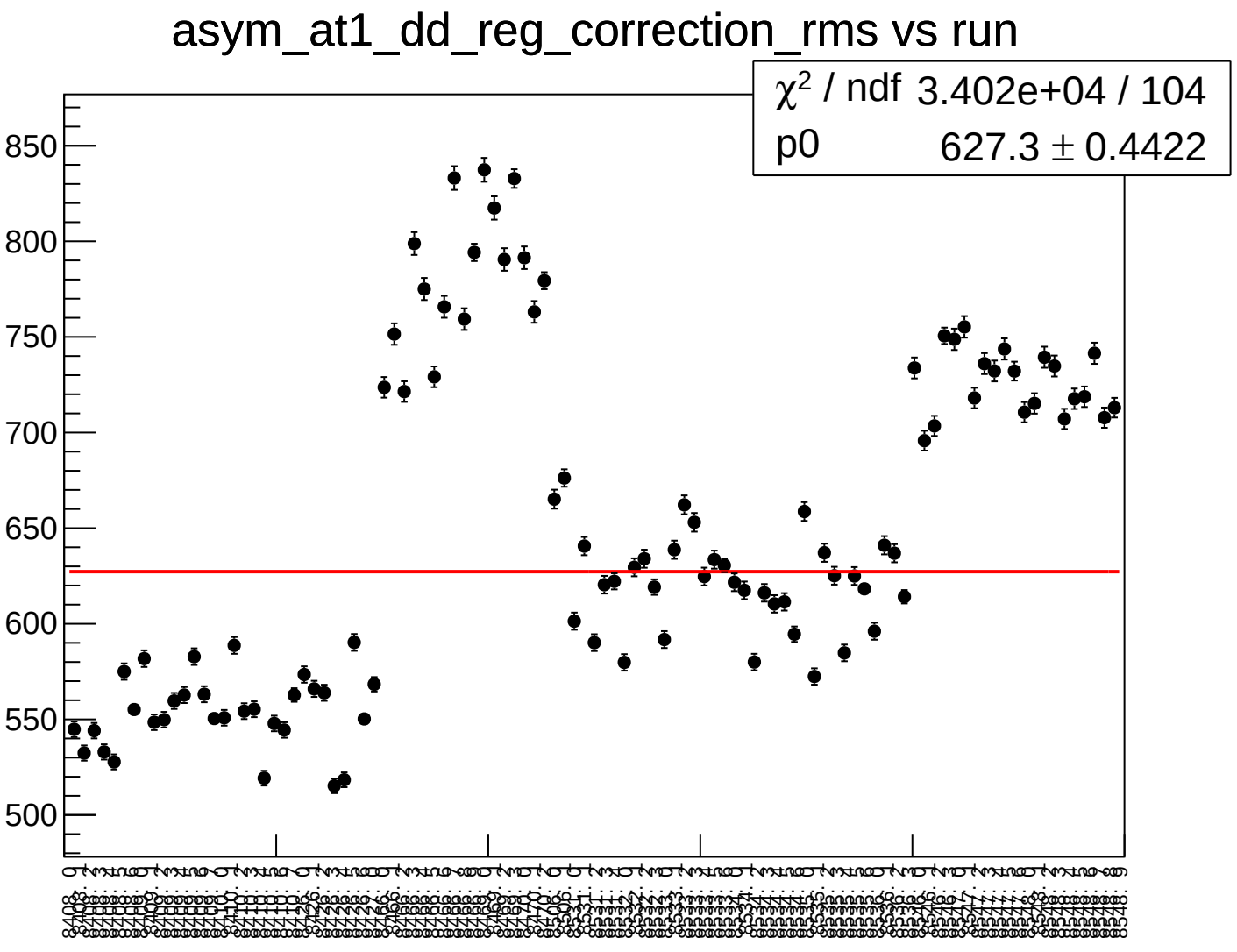

reg_asym_at1_dd_mean vs run
χ² / ndf 93.4 / 104
p0 2874 ± 1810
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 105
Mean −460.1
Std Dev 0
2
1
0
−1
−2

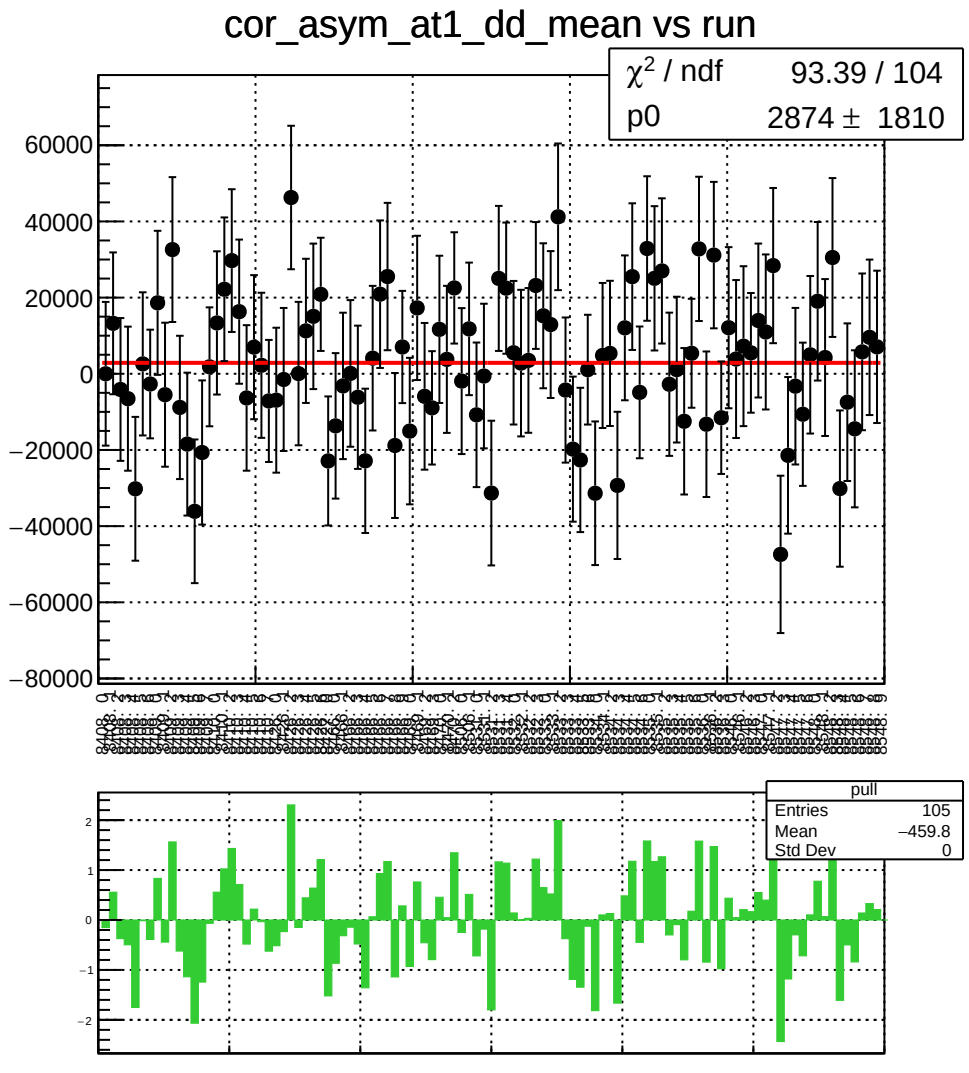

pull1D
Entries 105
Mean −0.002283
Std Dev 0.9431
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

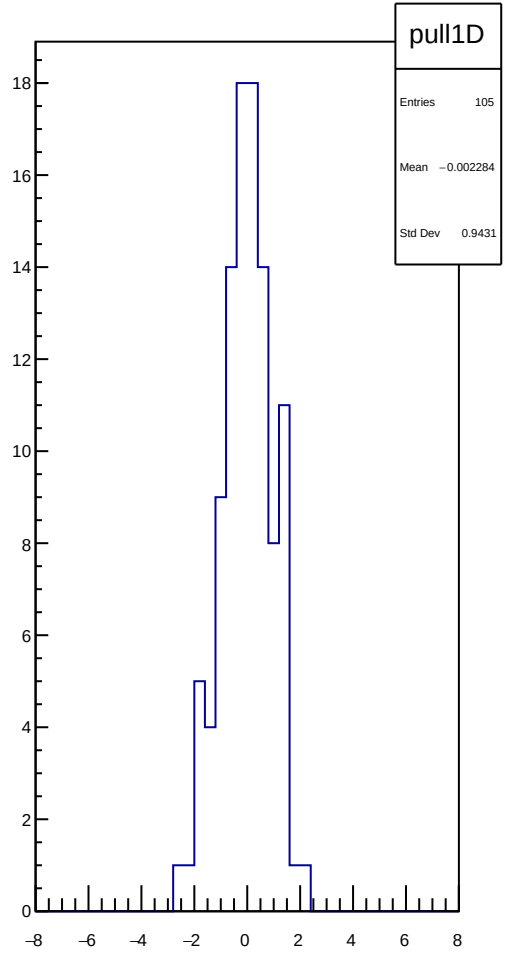

reg_asym_at1_dd_rms vs run
χ² / ndf 2189 / 104
p0 1830 ± 1.28
2000
1950
1900
1850
1800
1750

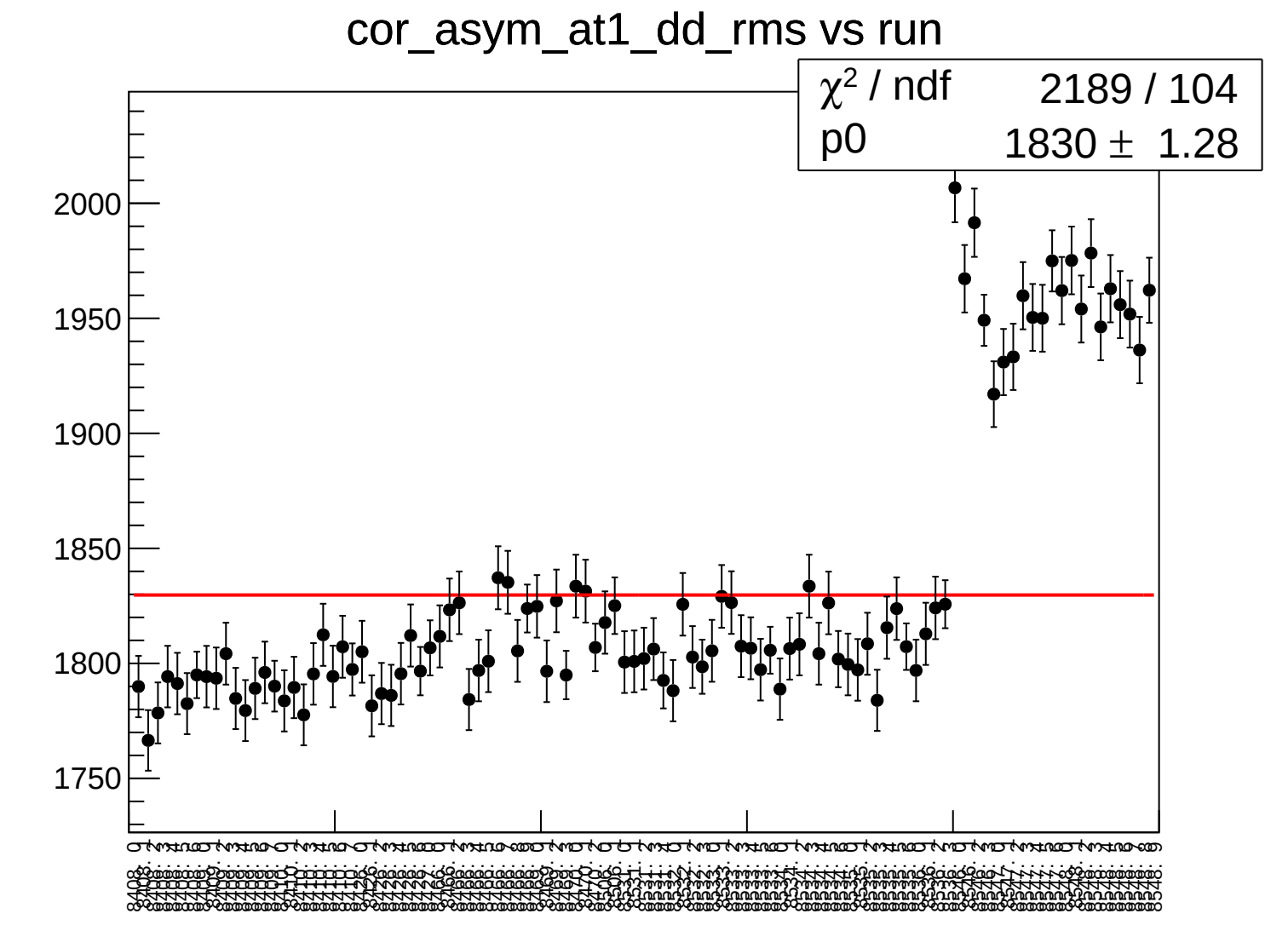

asym_at1_dd_reg_correction_mean vs run
χ² / ndf 93.29 / 104
p0 2800 ± 625.4
30000
20000
10000
0
−10000
−20000
pull
Entries 105
Mean −832.4
Std Dev 0
2
1
0
−1
−2

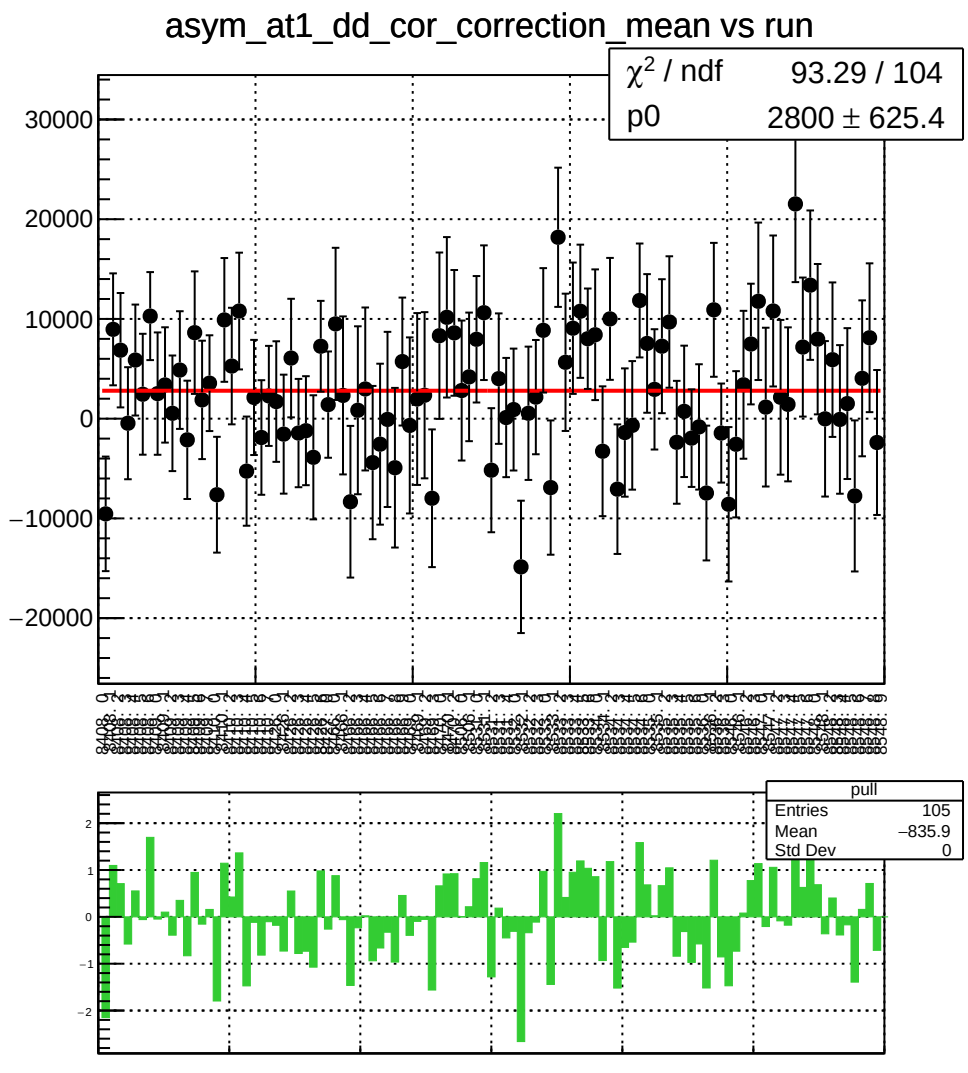

pull1D
Entries 105
Mean −0.002604
Std Dev 0.9426
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

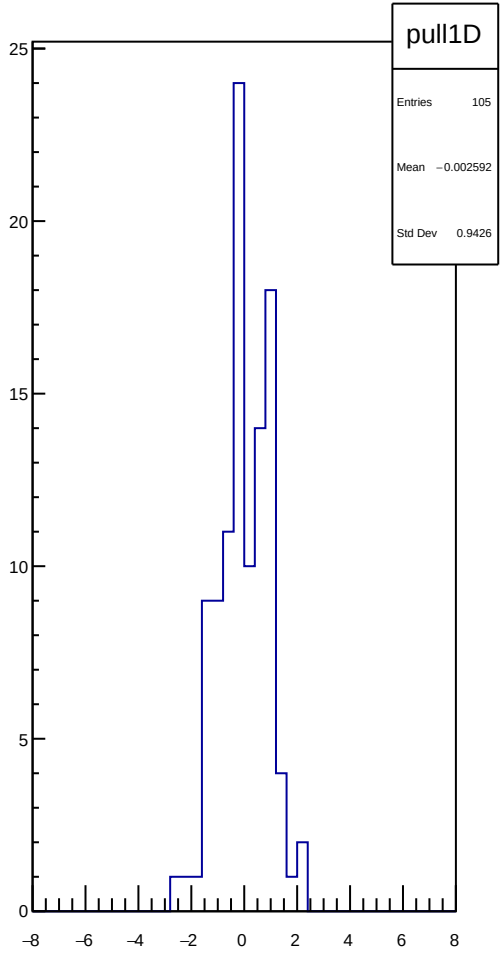

asym_at1_dd_reg_correction_rms vs run
χ² / ndf 3.402e+04 / 104
p0 627.3 ± 0.4422
850
800
750
700
650
600
550
500

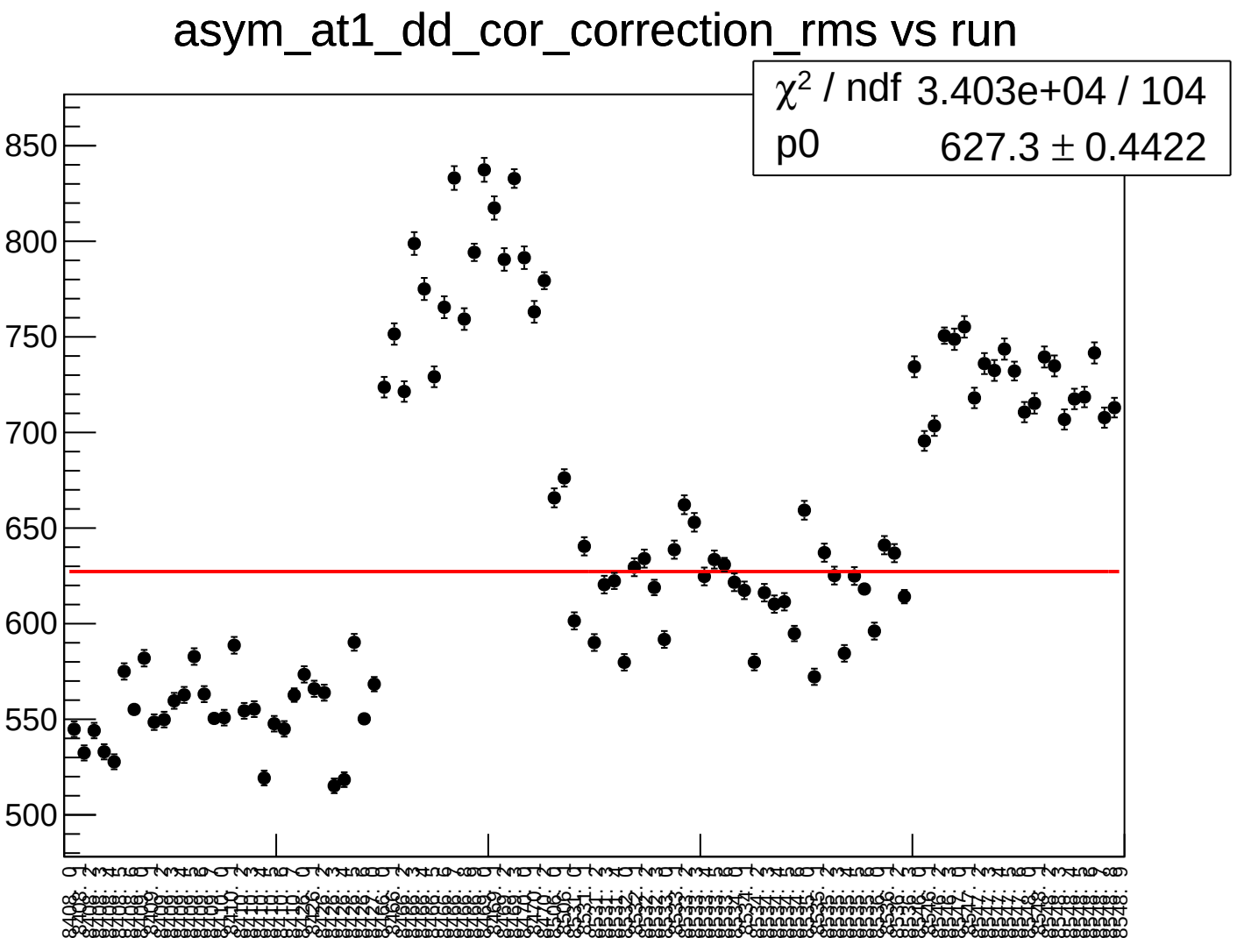

cor_asym_at1_dd_mean vs run
χ² / ndf 93.39 / 104
p0 2874 ± 1810
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 105
Mean −459.8
Std Dev 0
2
1
0
−1
−2

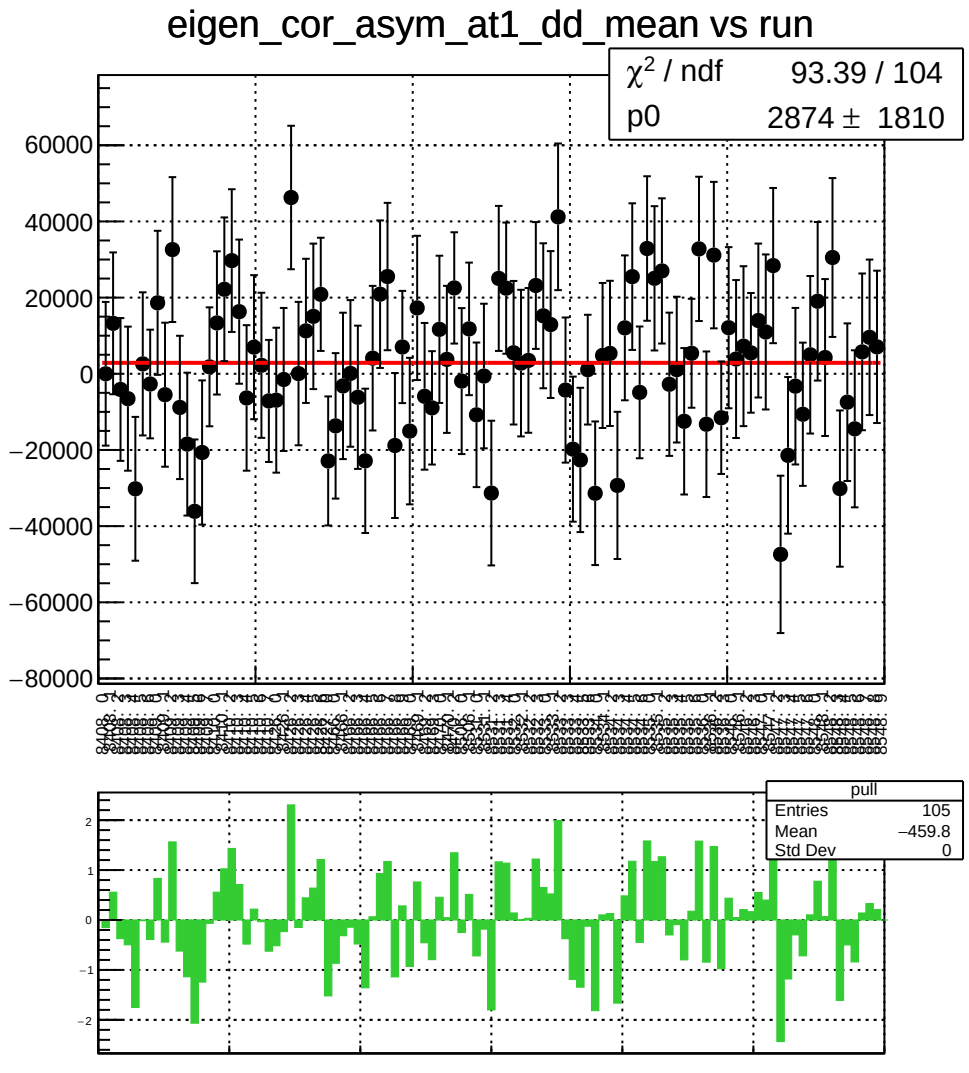

pull1D
Entries 105
Mean −0.002284
Std Dev 0.9431
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

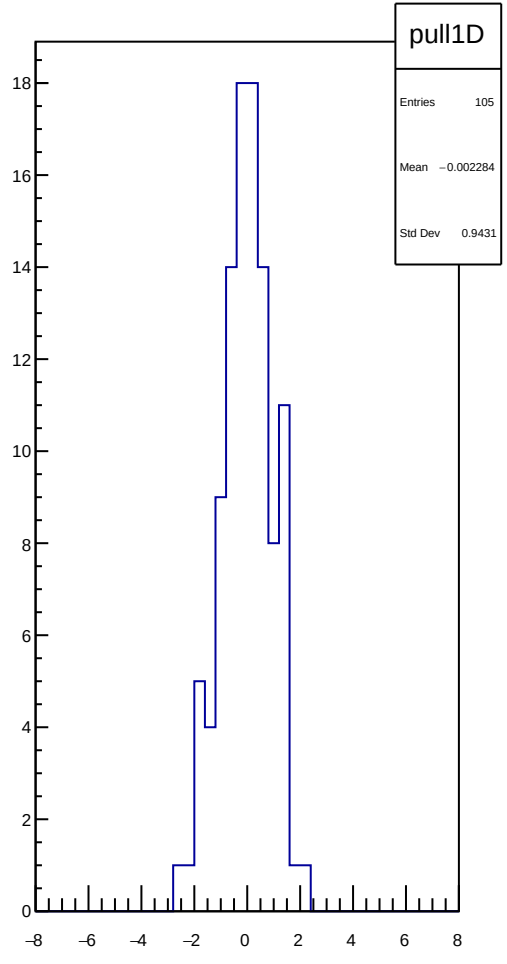

cor_asym_at1_dd_rms vs run
χ² / ndf 2189 / 104
p0 1830 ± 1.28
2000
1950
1900
1850
1800
1750

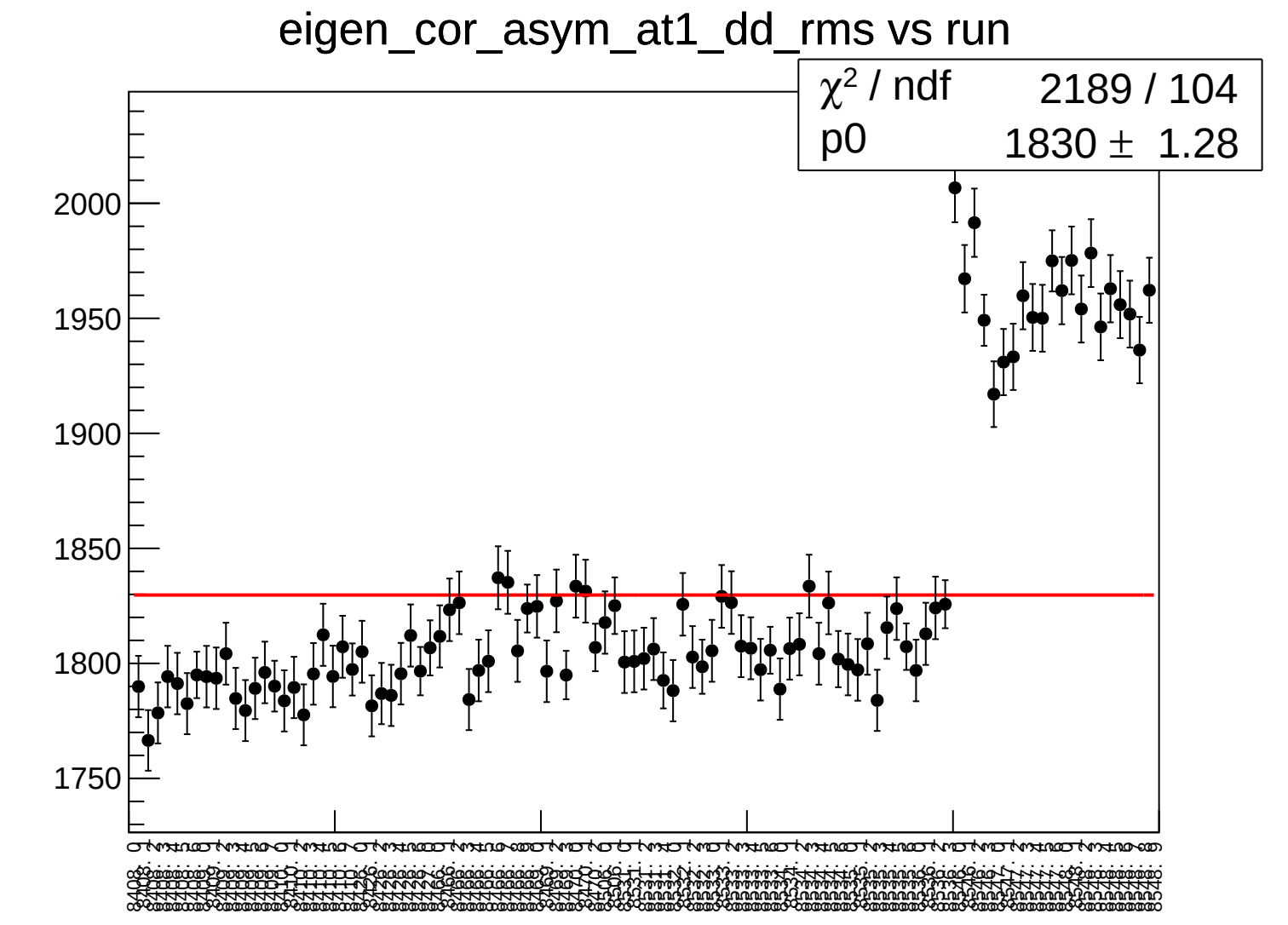

asym_at1_dd_cor_correction_mean vs run
χ² / ndf 93.29 / 104
p0 2800 ± 625.4
30000
20000
10000
0
−10000
−20000
pull
Entries 105
Mean −835.9
Std Dev 0
2
1
0
−1
−2

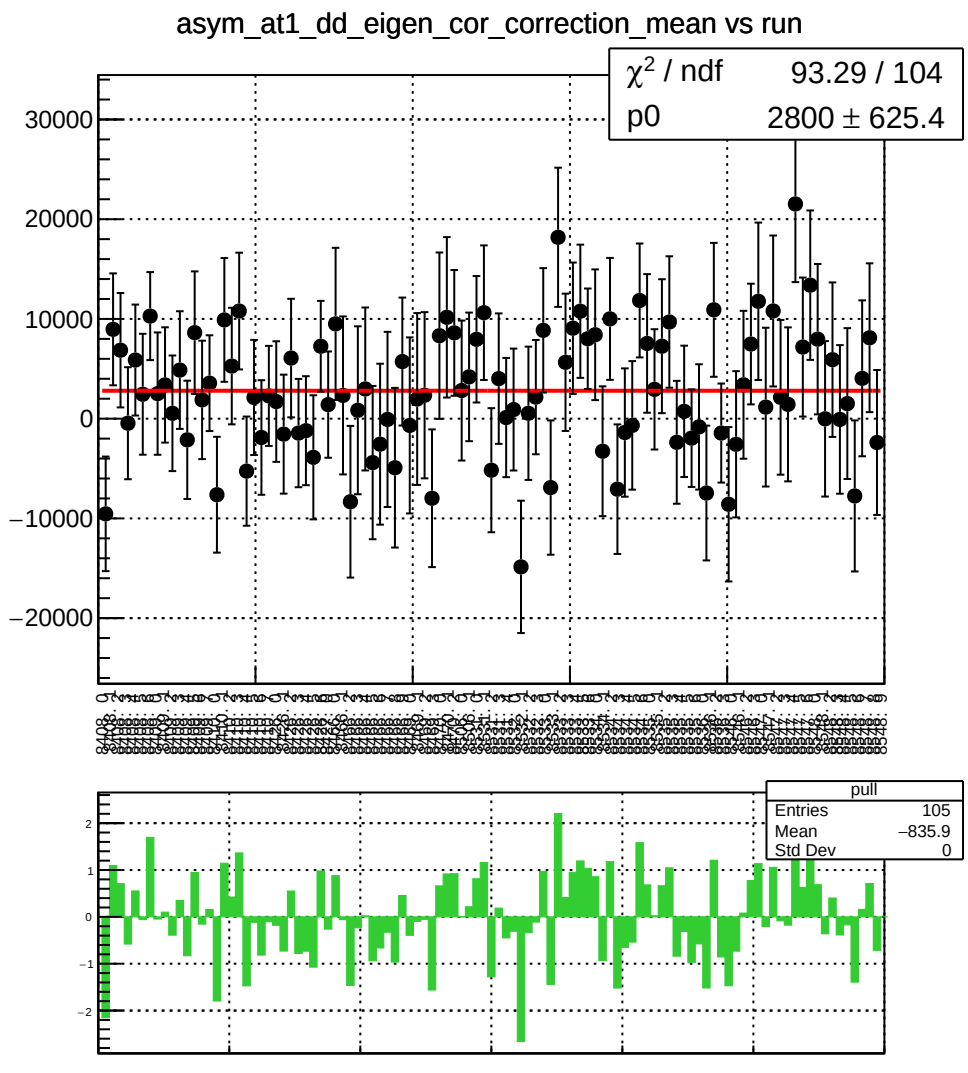

pull1D
Entries 105
Mean −0.002592
Std Dev 0.9426
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

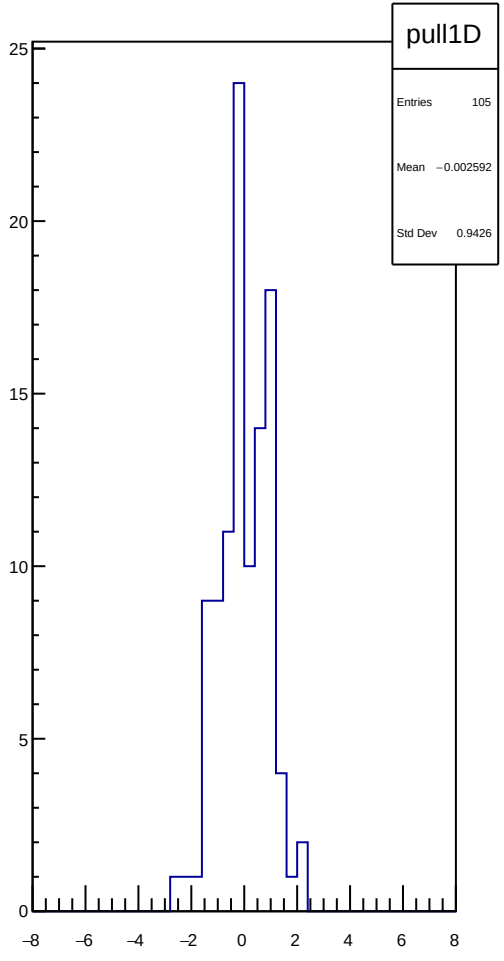

asym_at1_dd_cor_correction_rms vs run
χ² / ndf 3.403e+04 / 104
p0 627.3 ± 0.4422
850
800
750
700
650
600
550
500

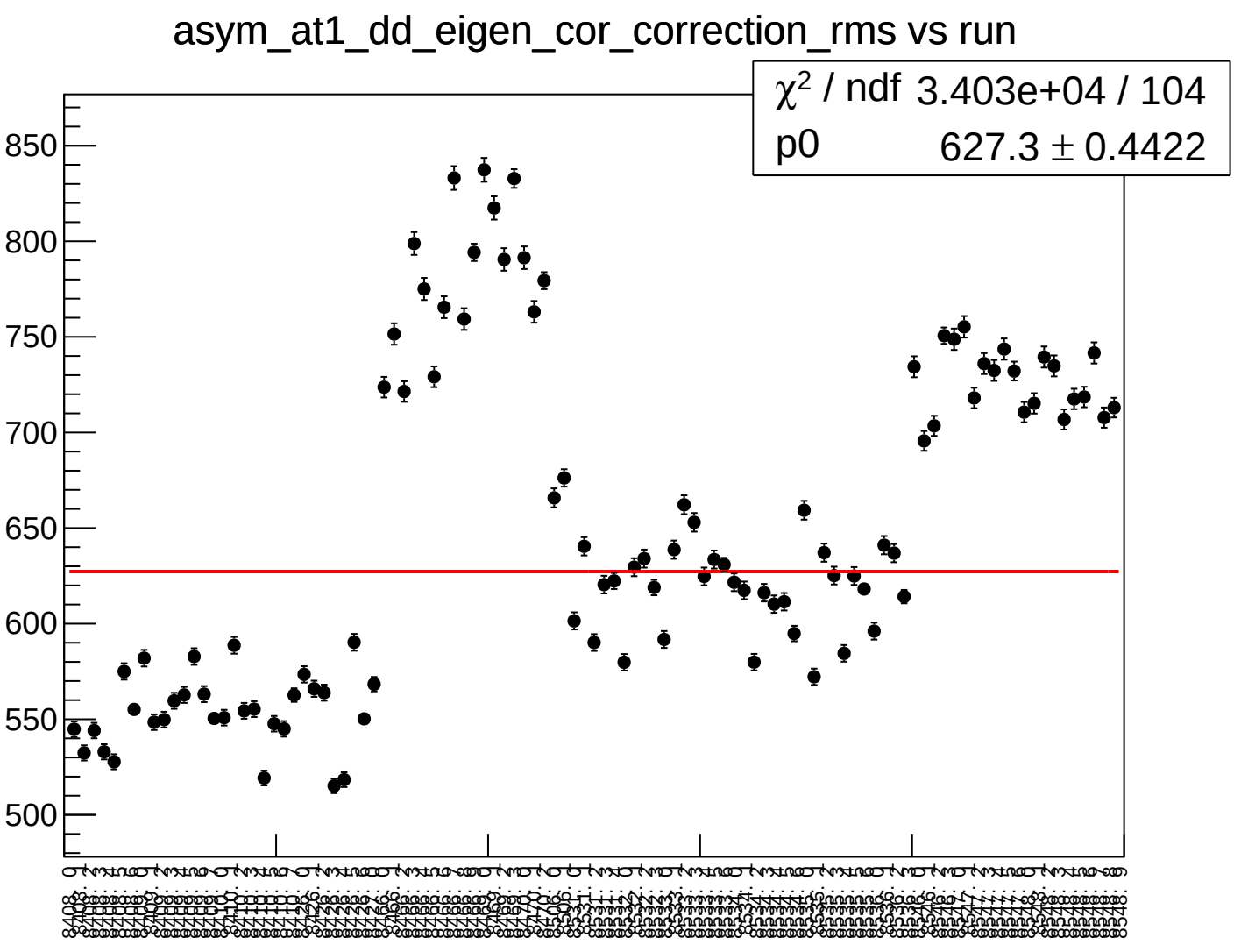

eigen_cor_asym_at1_dd_mean vs run
χ² / ndf 93.39 / 104
p0 2874 ± 1810
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 105
Mean −459.8
Std Dev 0
2
1
0
−1
−2

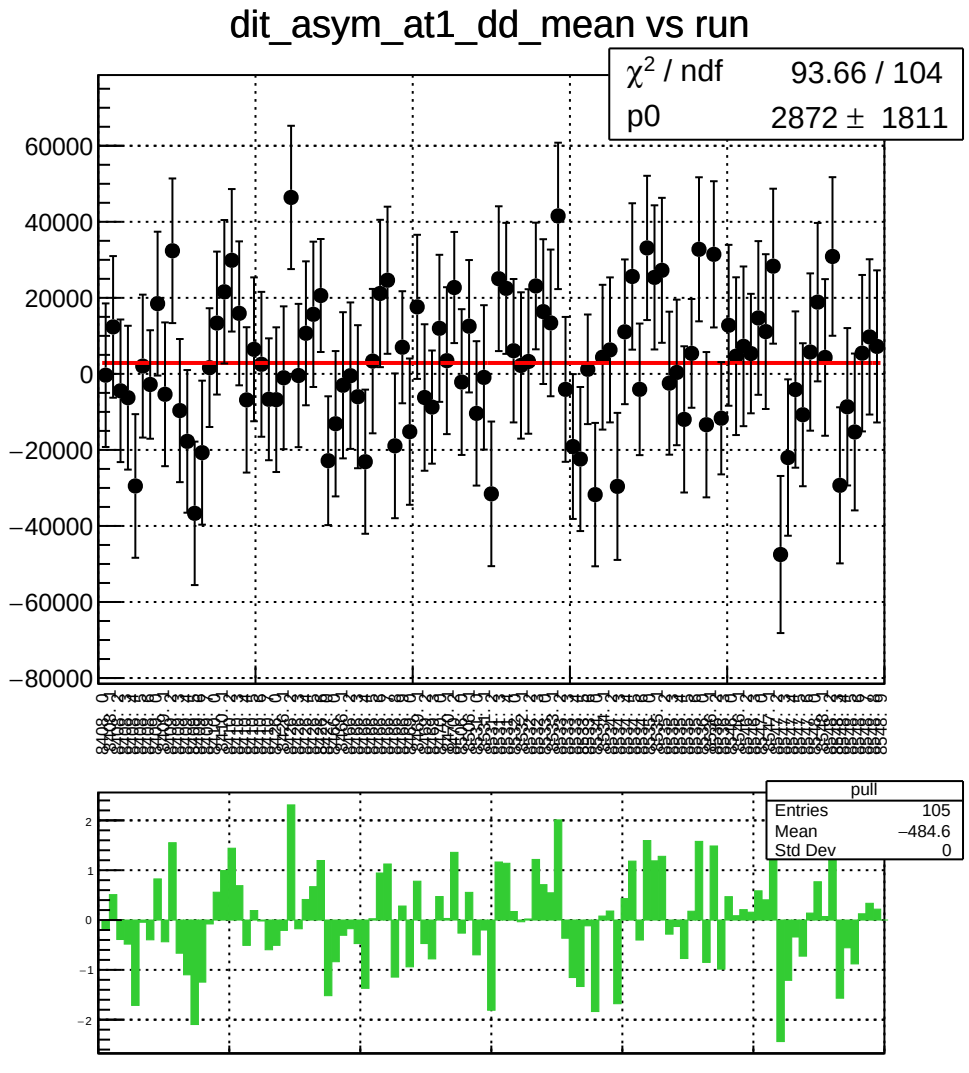

pull1D
Entries 105
Mean −0.002284
Std Dev 0.9431
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

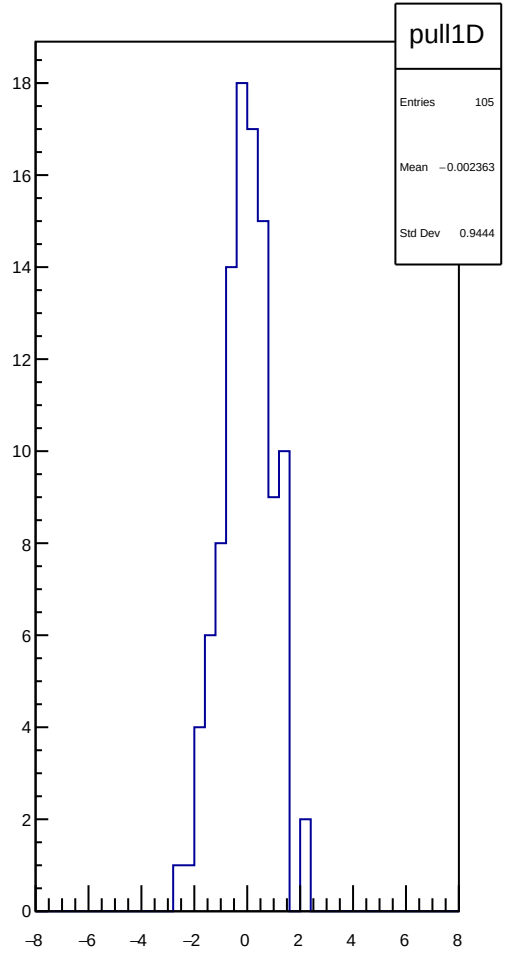

eigen_cor_asym_at1_dd_rms vs run
χ² / ndf 2189 / 104
p0 1830 ± 1.28
2000
1950
1900
1850
1800
1750

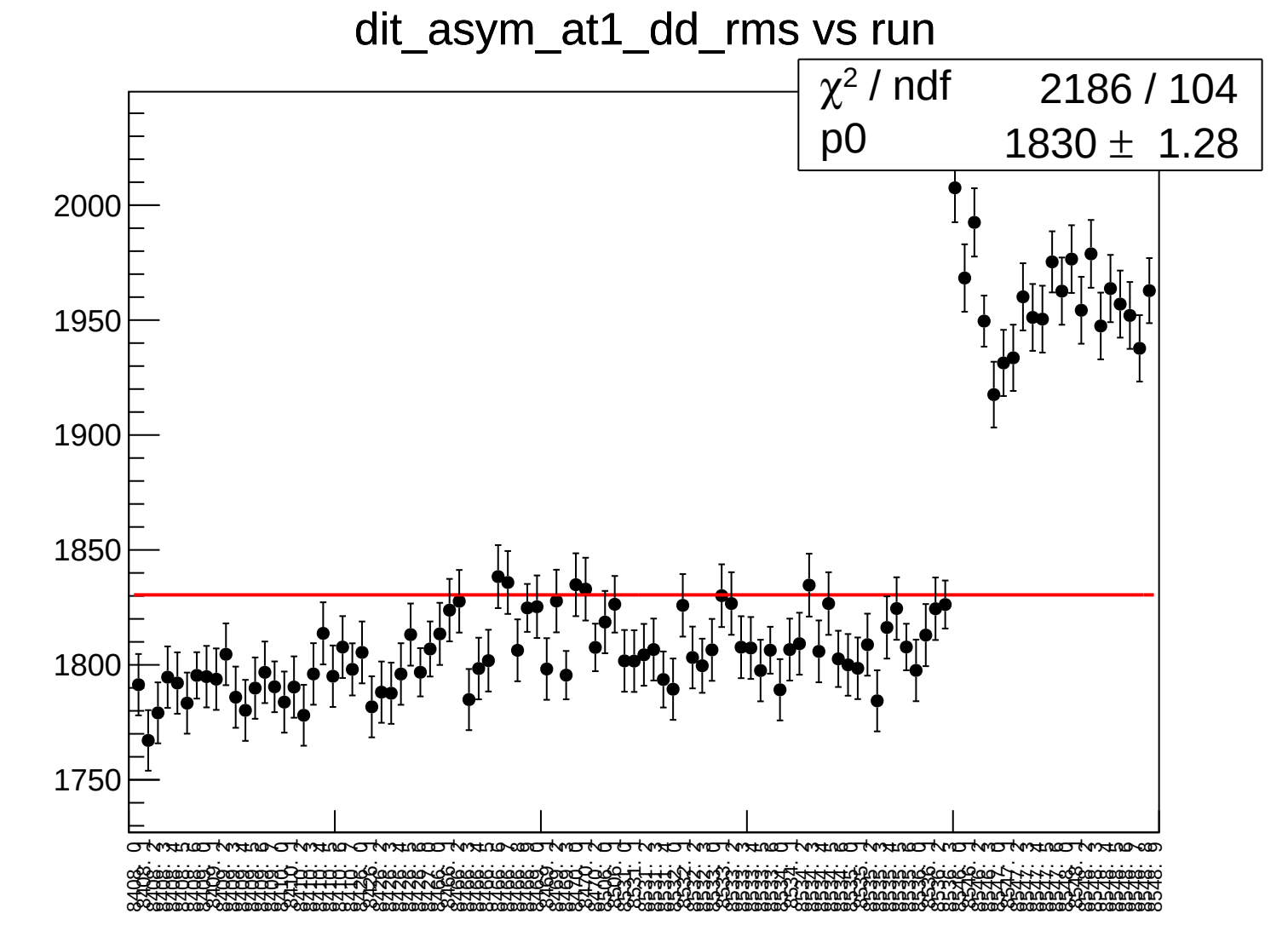

asym_at1_dd_eigen_cor_correction_mean vs run
χ² / ndf 93.29 / 104
p0 2800 ± 625.4
30000
20000
10000
0
−10000
−20000
pull
Entries 105
Mean −835.9
Std Dev 0
2
1
0
−1
−2

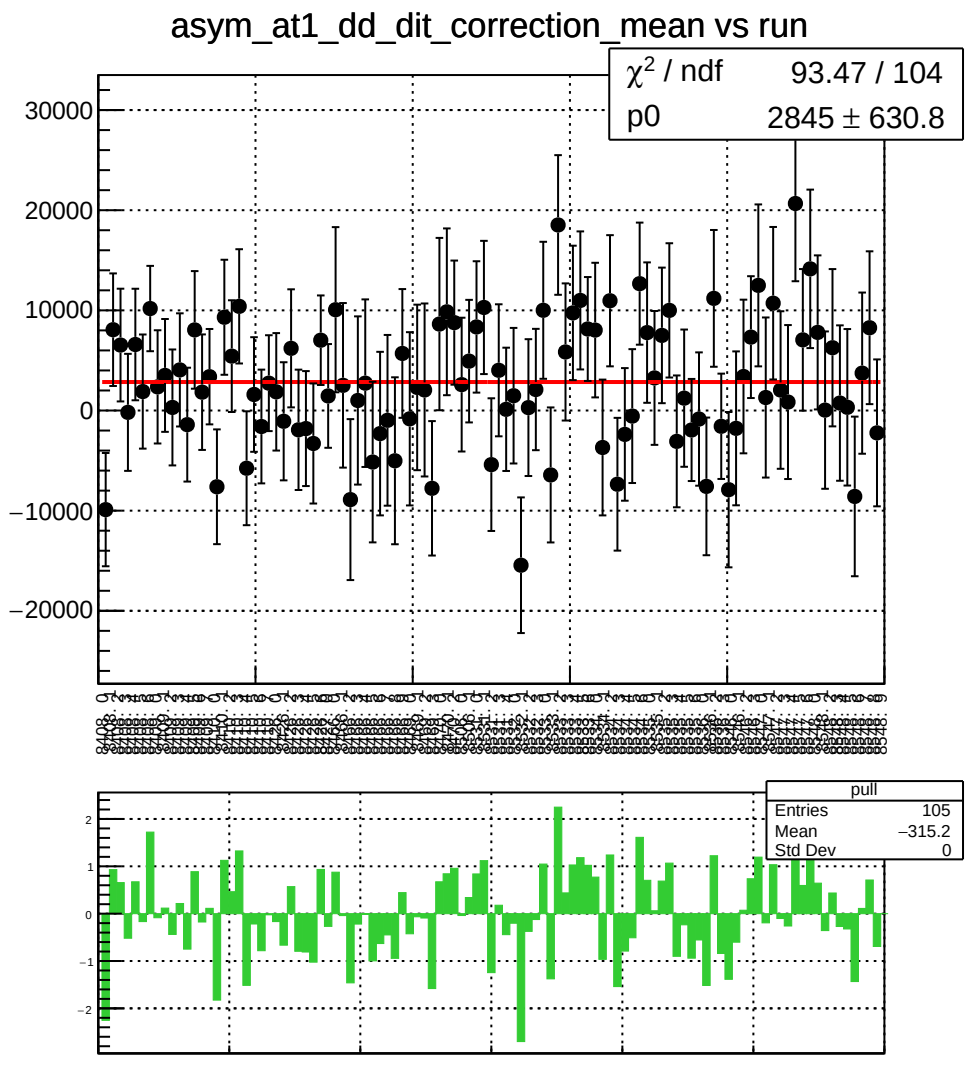

pull1D
Entries 105
Mean −0.002592
Std Dev 0.9426
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

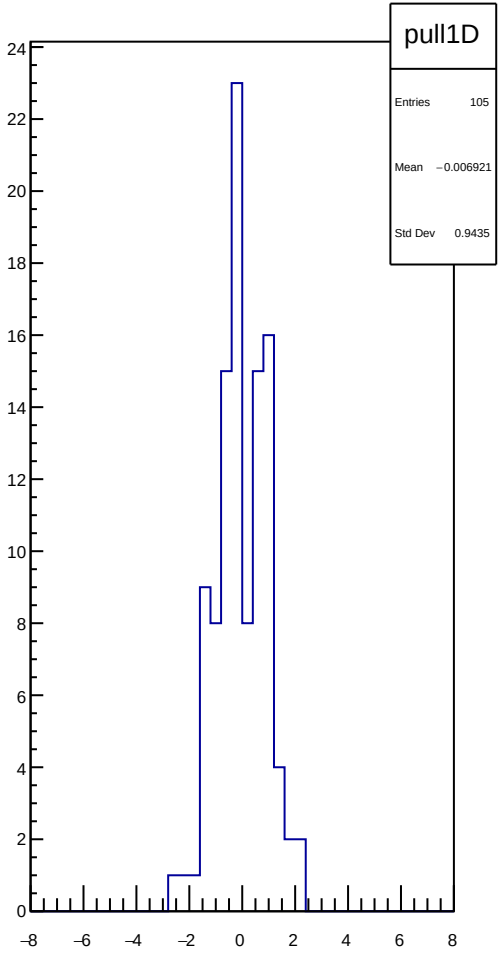

asym_at1_dd_eigen_cor_correction_rms vs run
χ^2 / ndf 3.403e+04 / 104
p0 627.3 ± 0.4422
850
800
750
700
650
600
550
500

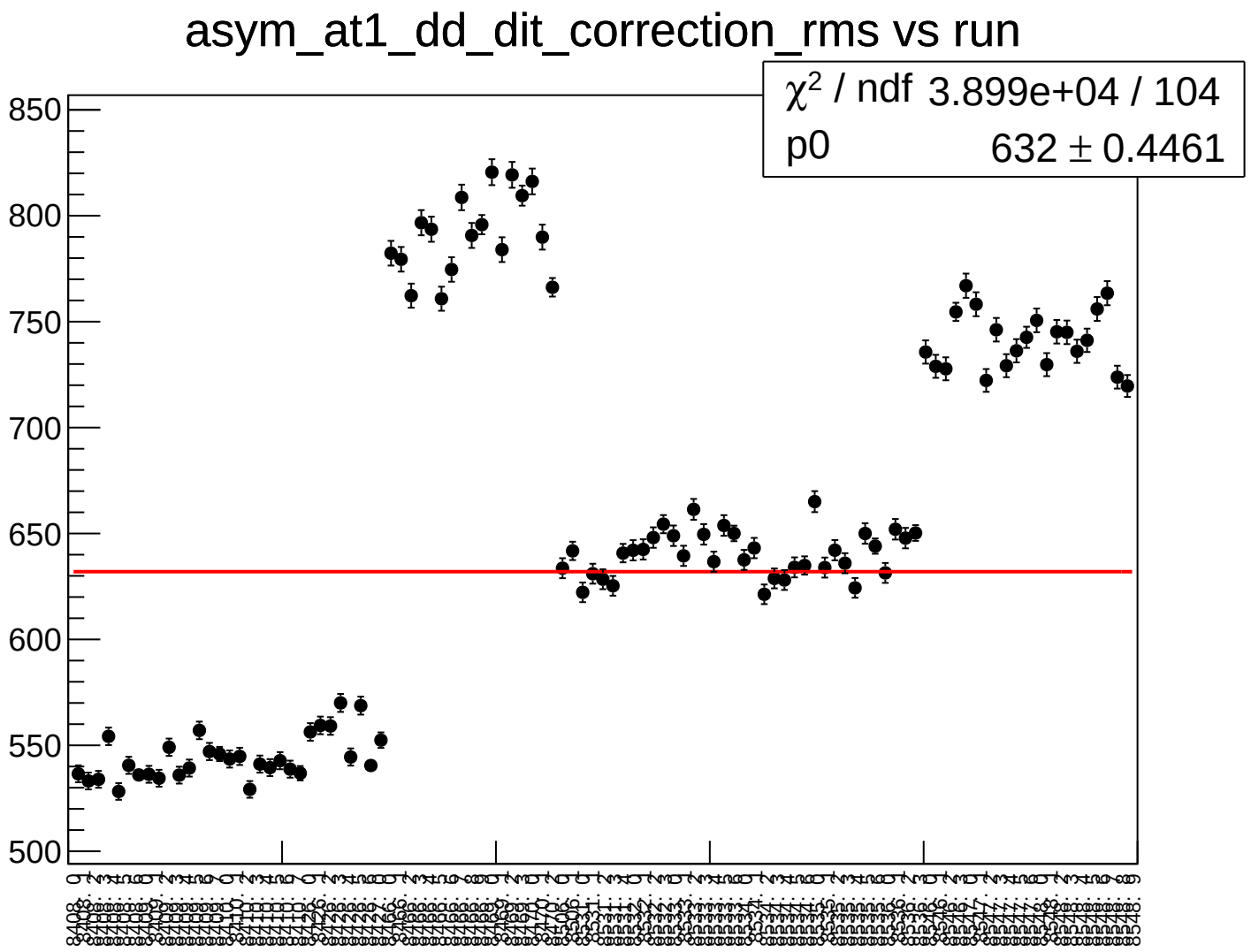

dit_asym_at1_dd_mean vs run
χ² / ndf 93.66 / 104
p0 2872 ± 1811
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 105
Mean −484.6
Std Dev 0
2
1
0
−1
−2

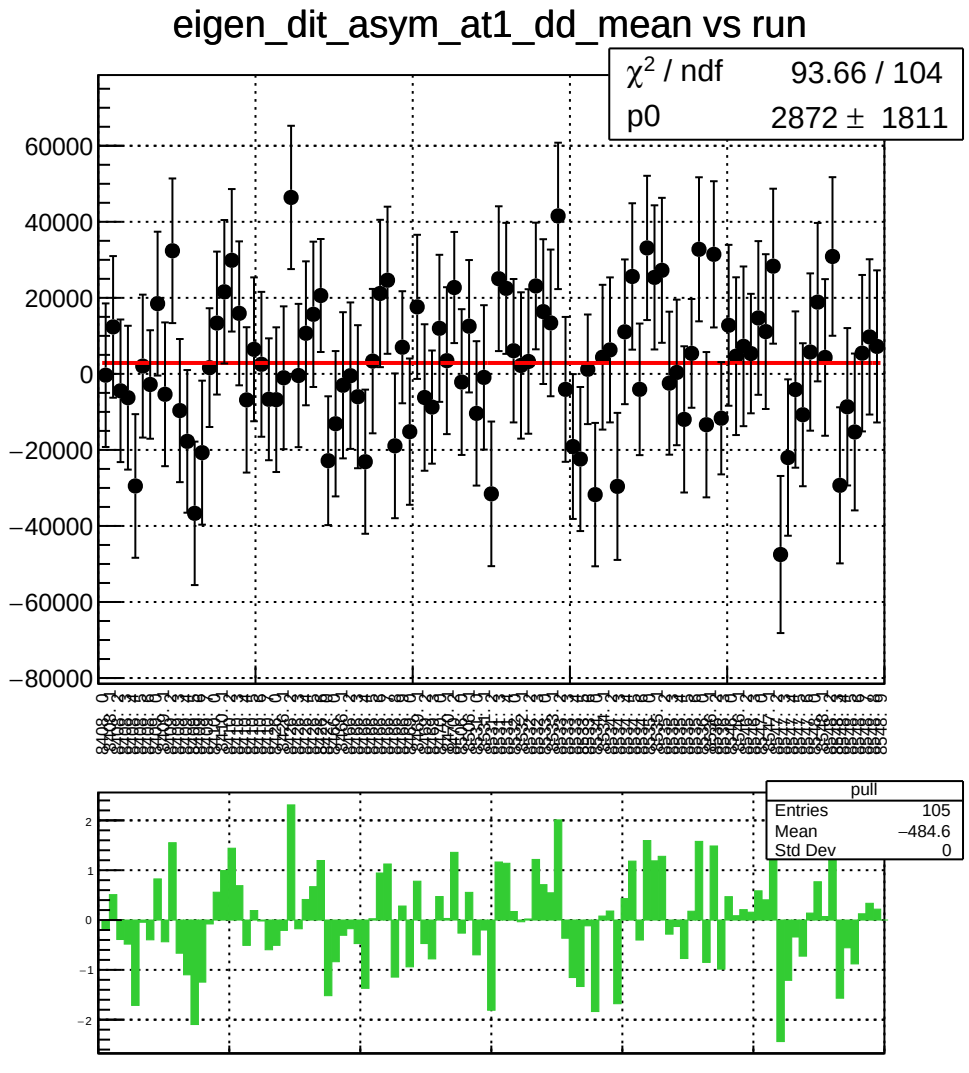

pull1D
Entries 105
Mean −0.002363
Std Dev 0.9444
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

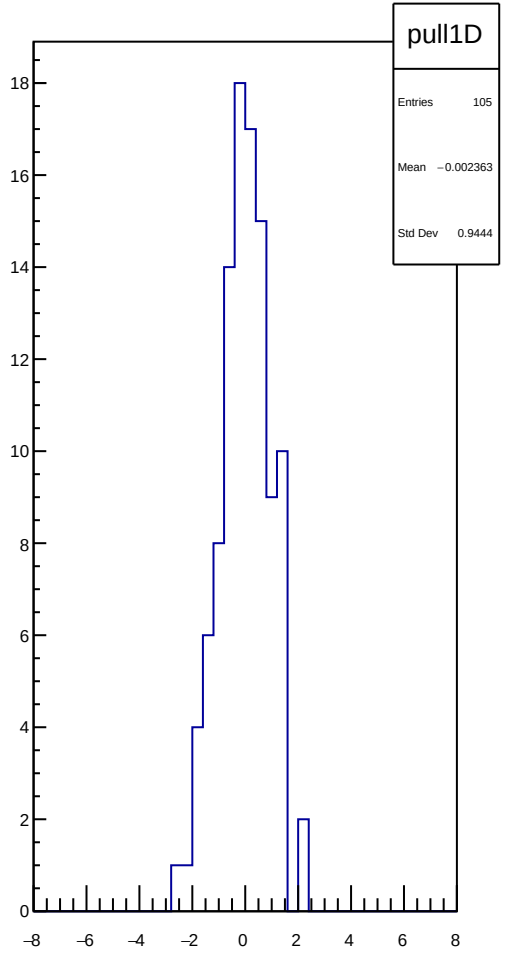

dit_asym_at1_dd_rms vs run
χ² / ndf 2186 / 104
p0 1830 ± 1.28
2000
1950
1900
1850
1800
1750

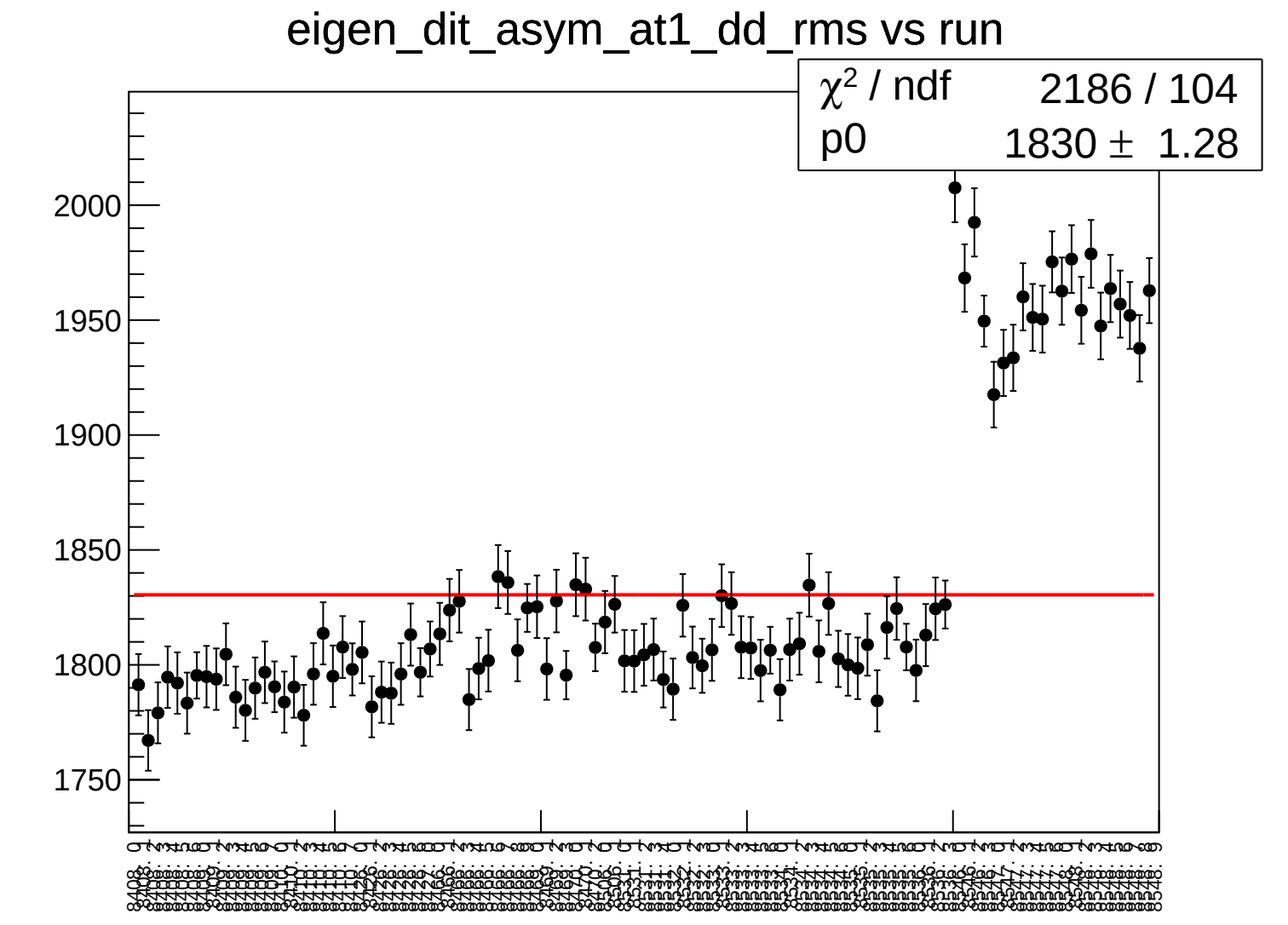

asym_at1_dd_dit_correction_mean vs run
χ² / ndf 93.47 / 104
p0 2845 ± 630.8
30000
20000
10000
0
−10000
−20000
pull
Entries 105
Mean −315.2
Std Dev 0
2
1
0
−1
−2

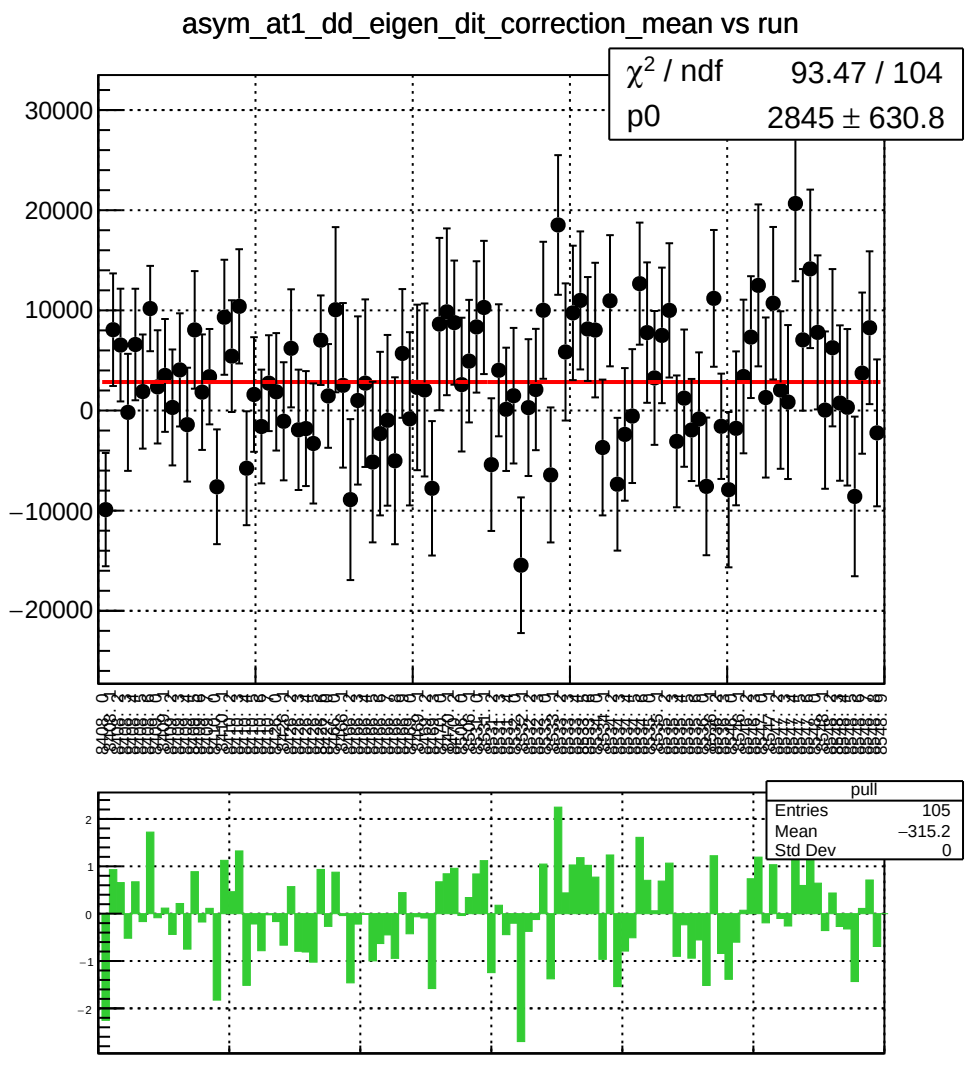

pull1D
Entries 105
Mean −0.006921
Std Dev 0.9435
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

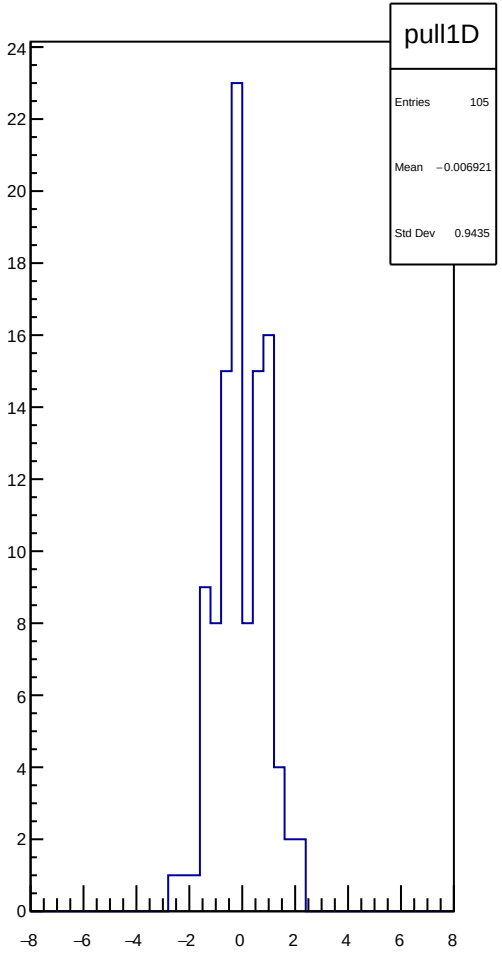

asym_at1_dd_dit_correction_rms vs run
χ² / ndf 3.899e+04 / 104
p0 632 ± 0.4461
850
800
750
700
650
600
550
500

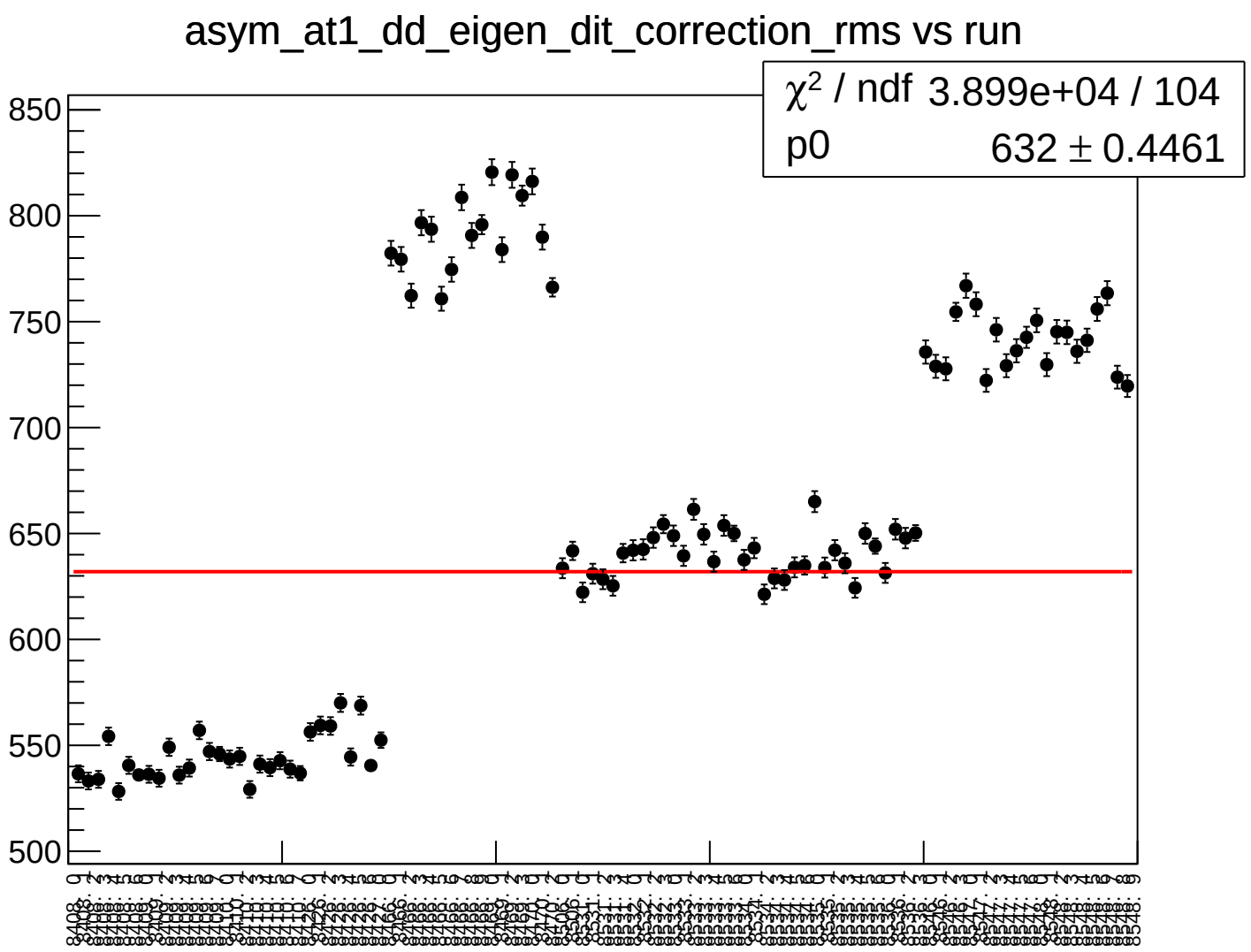

eigen_dit_asym_at1_dd_mean vs run
χ² / ndf 93.66 / 104
p0 2872 ± 1811
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 105
Mean −484.6
Std Dev 0
2
1
0
−1
−2

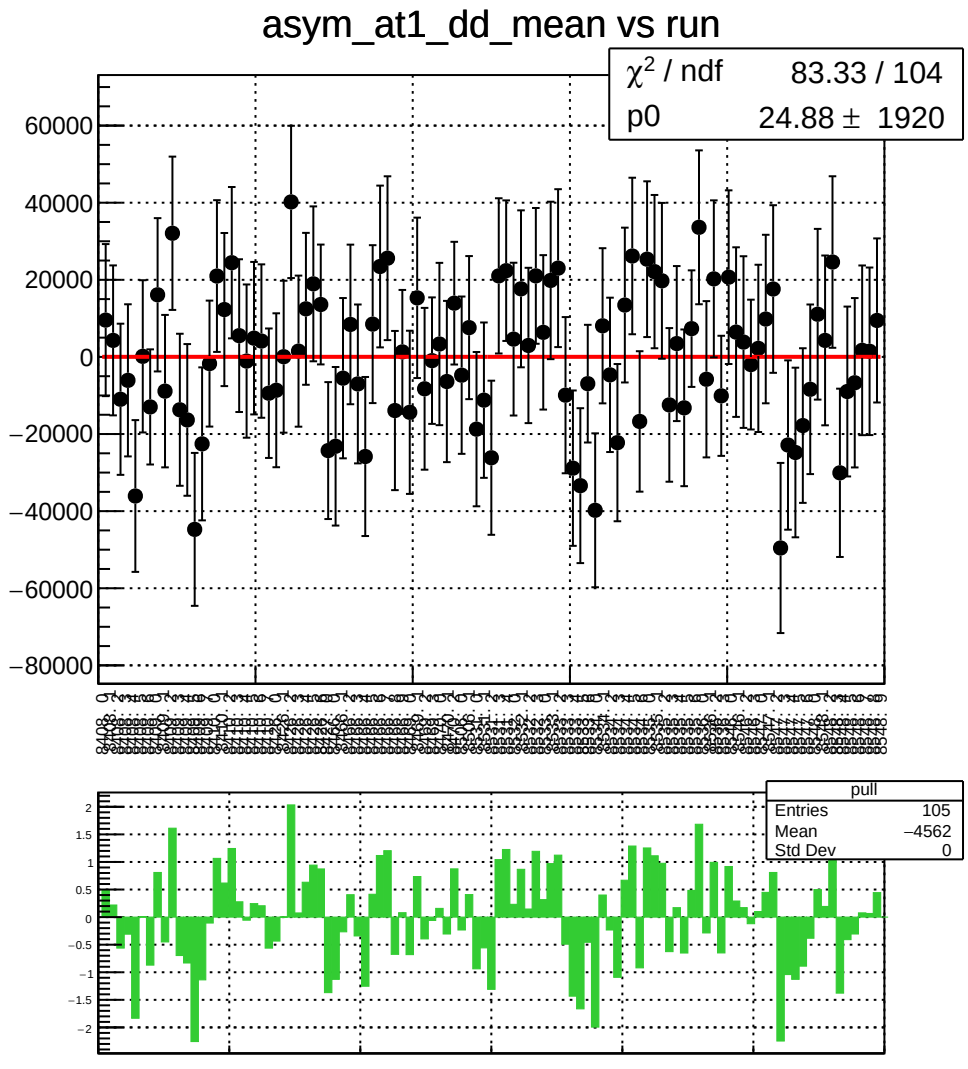

pull1D
Entries 105
Mean −0.002363
Std Dev 0.9444
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

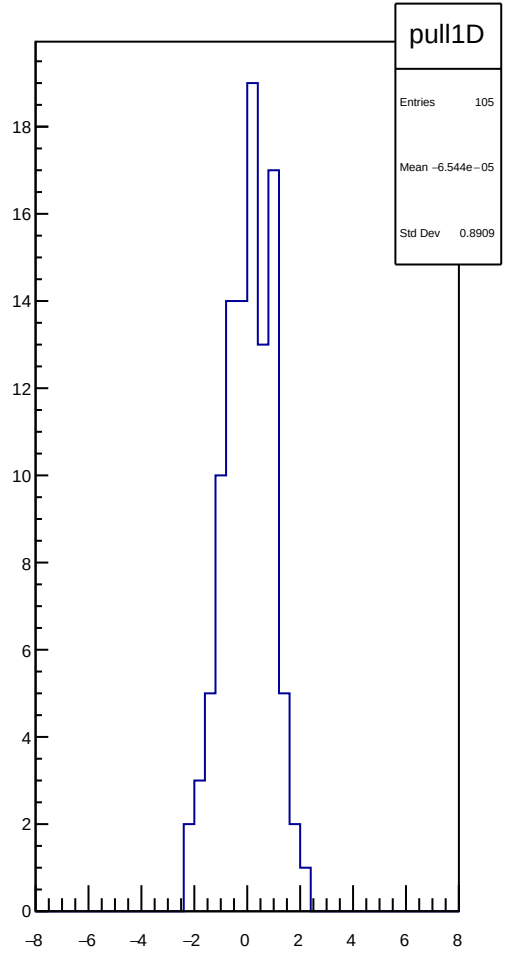

eigen_dit_asym_at1_dd_rms vs run
χ² / ndf 2186 / 104
p0 1830 ± 1.28
2000
1950
1900
1850
1800
1750

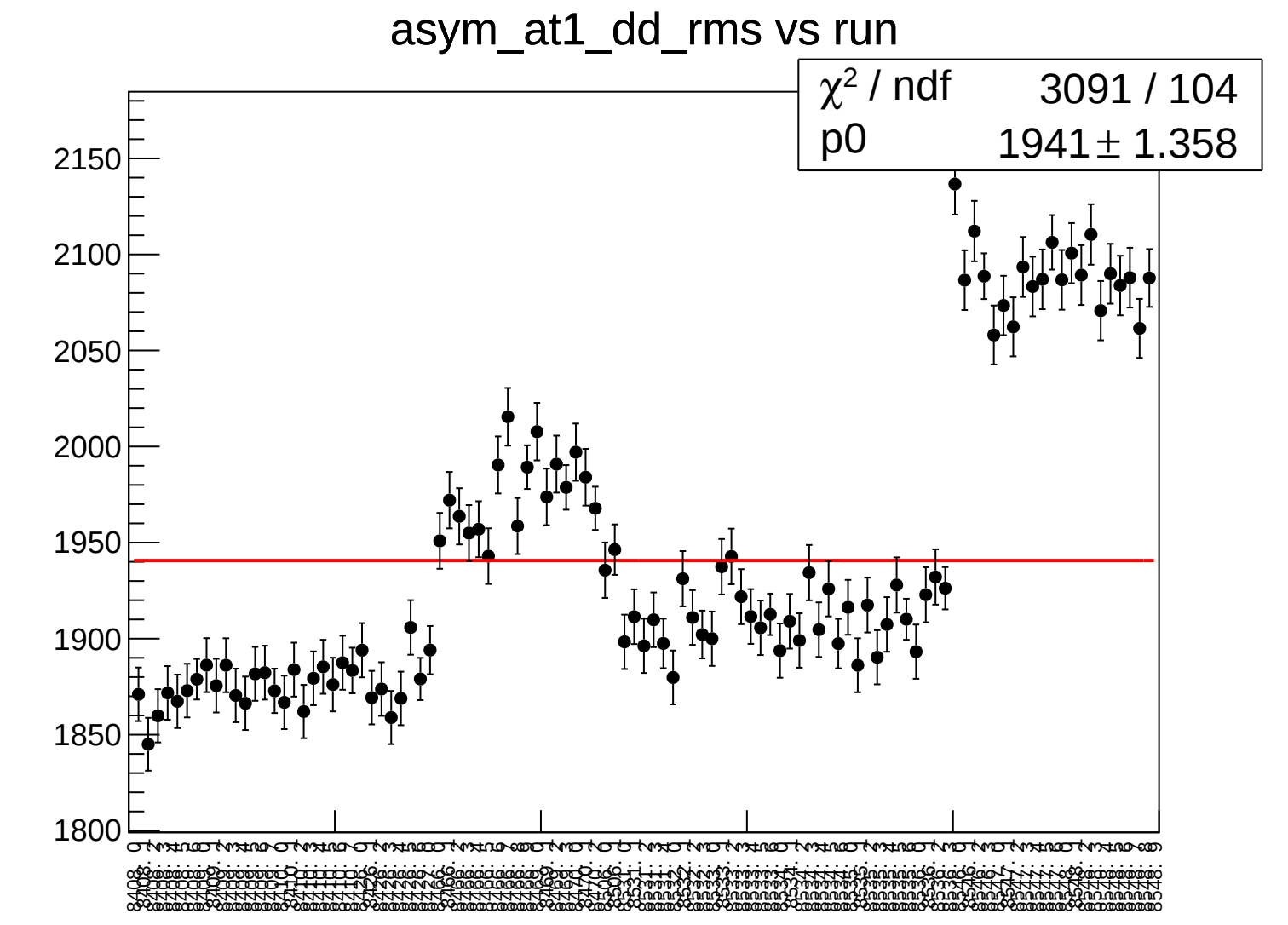

asym_at1_dd_eigen_dit_correction_mean vs run
χ² / ndf 93.47 / 104
p0 2845 ± 630.8
30000
20000
10000
0
−10000
−20000
pull
Entries 105
Mean −315.2
Std Dev 0
2
1
0
−1
−2

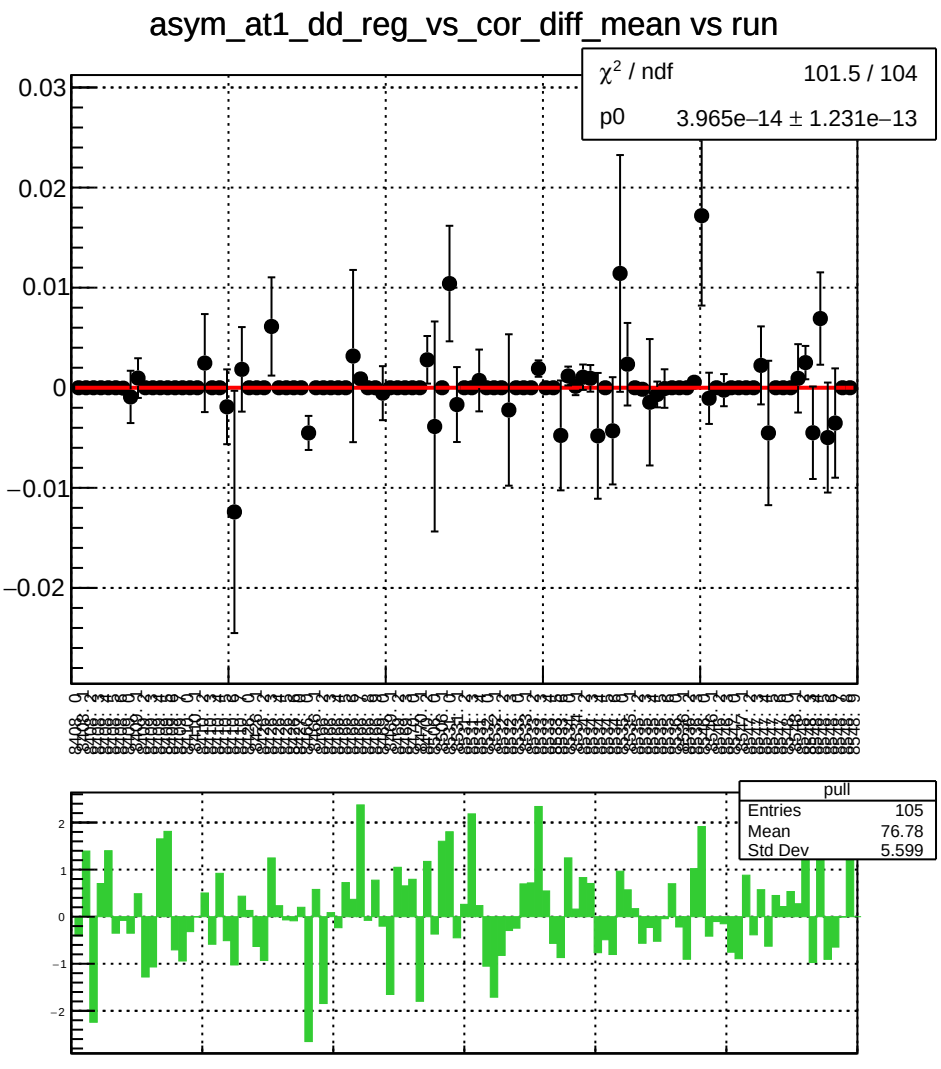

pull1D
Entries 105
Mean −0.006921
Std Dev 0.9435
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

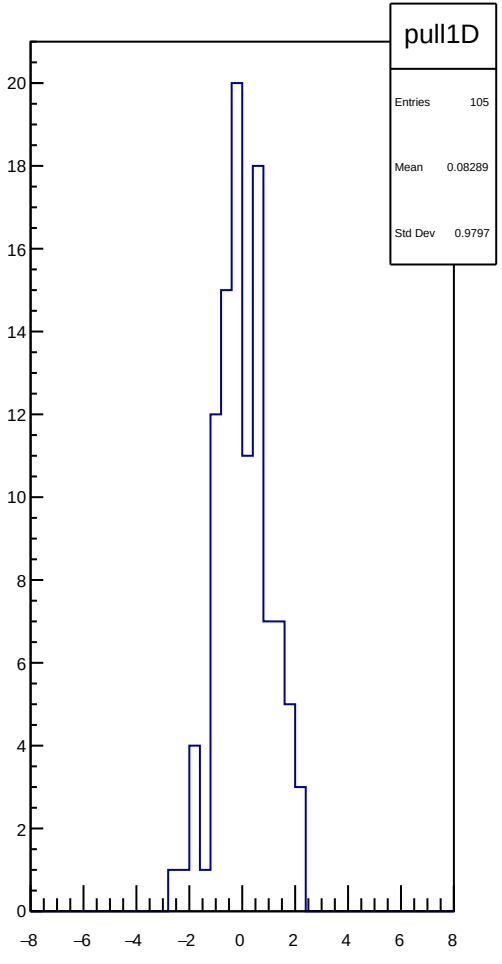

asym_at1_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 3.899e+04 / 104
p0 632 ± 0.4461
850
800
750
700
650
600
550
500

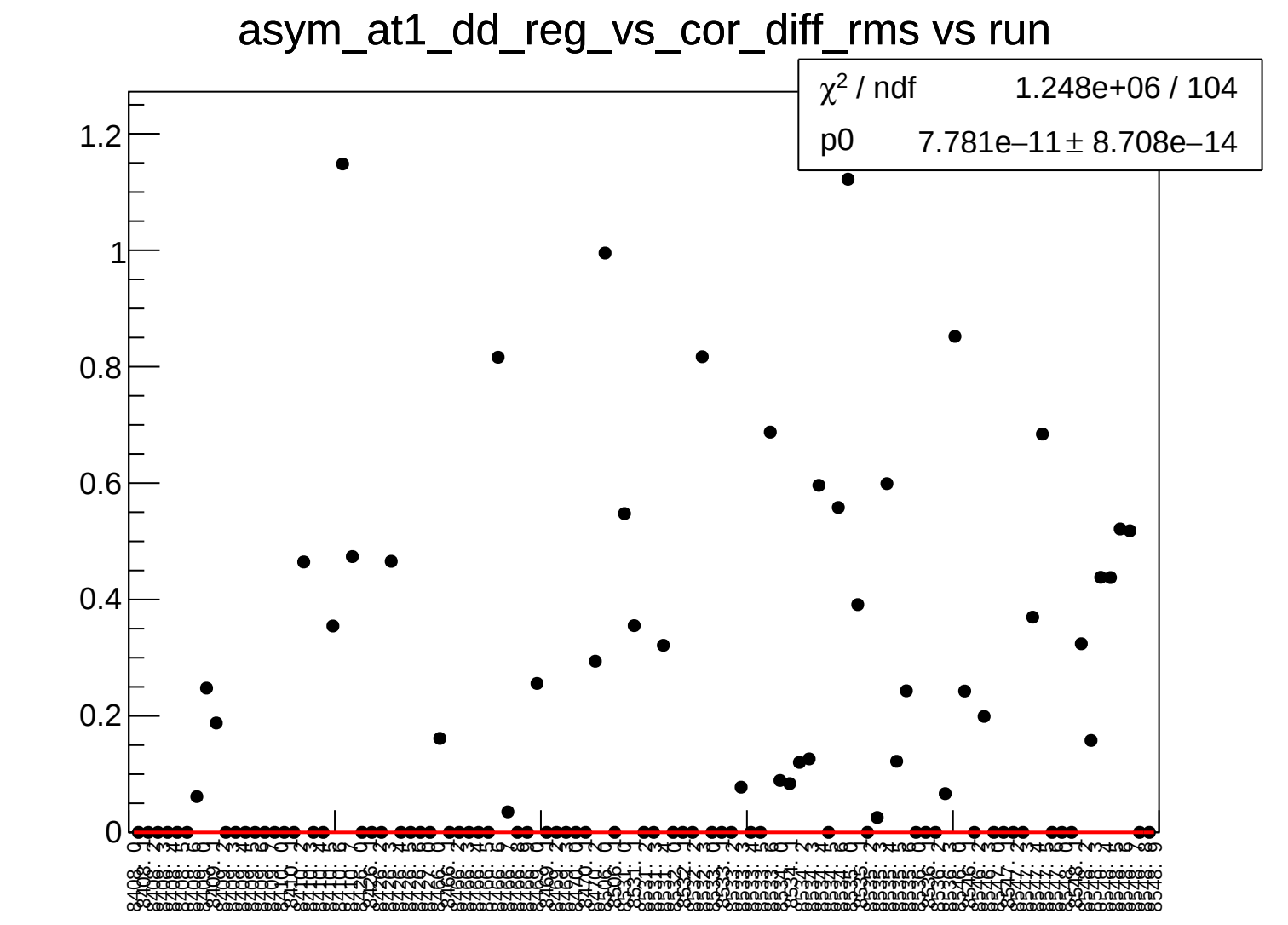

asym_at1_dd_mean vs run
χ^2 / ndf 83.33 / 104
p0 24.88 ± 1920
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 105
Mean −4562
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

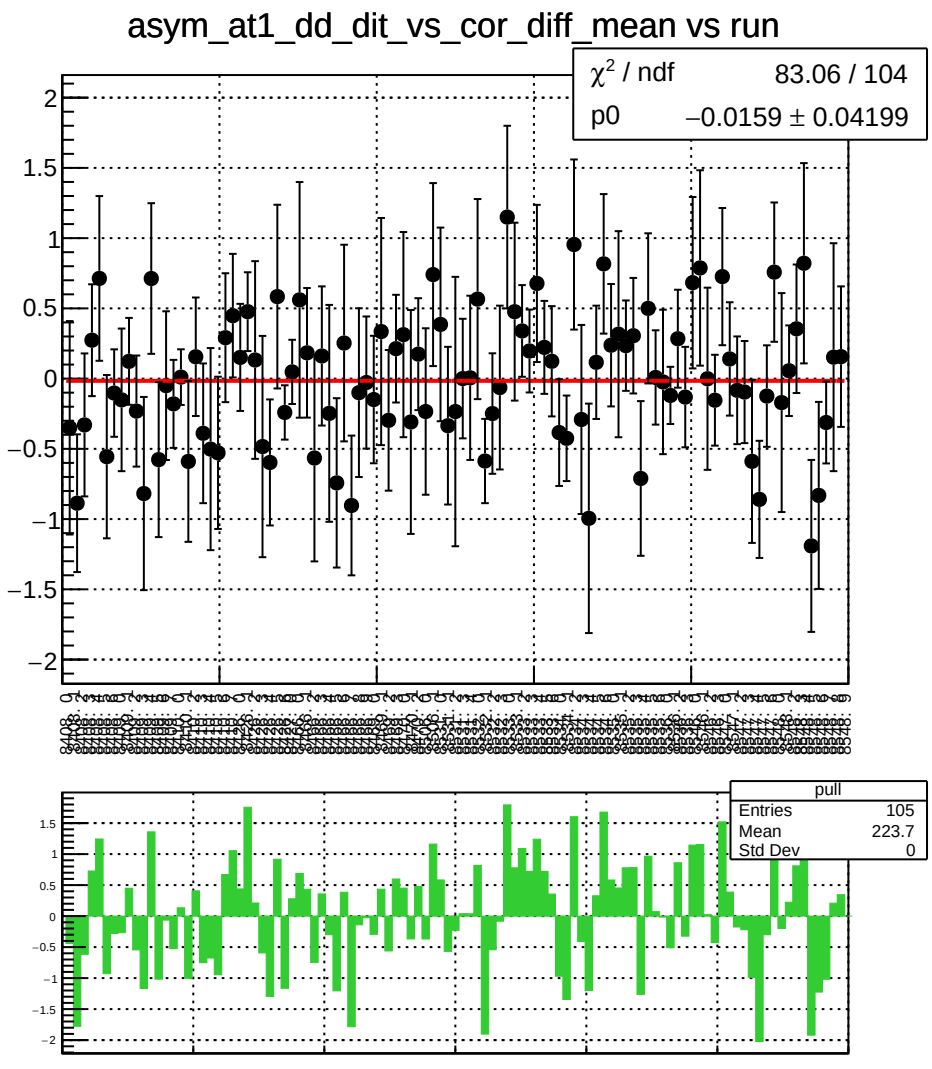

pull1D
Entries 105
Mean −6.544e−05
Std Dev 0.8909
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

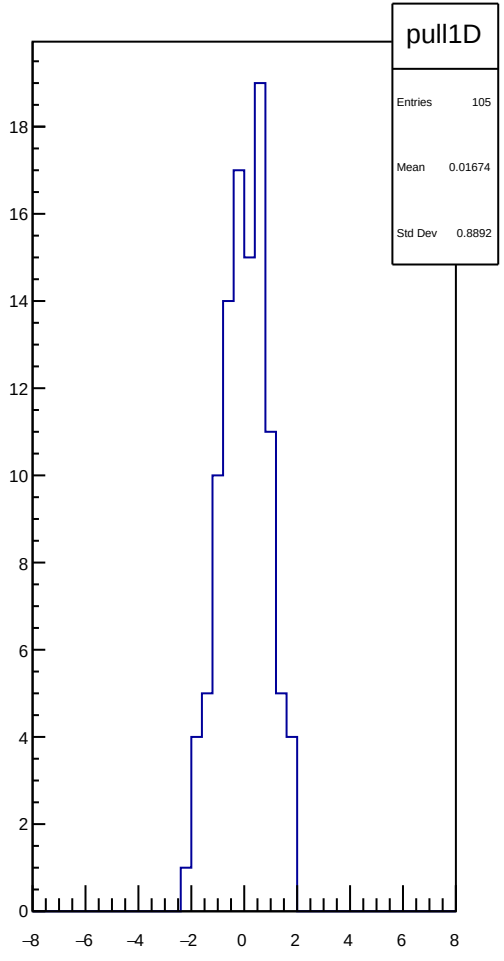

asym_at1_dd_rms vs run
χ^2 / ndf 3091 / 104
p0 1941 ± 1.358
2150
2100
2050
2000
1950
1900
1850
1800

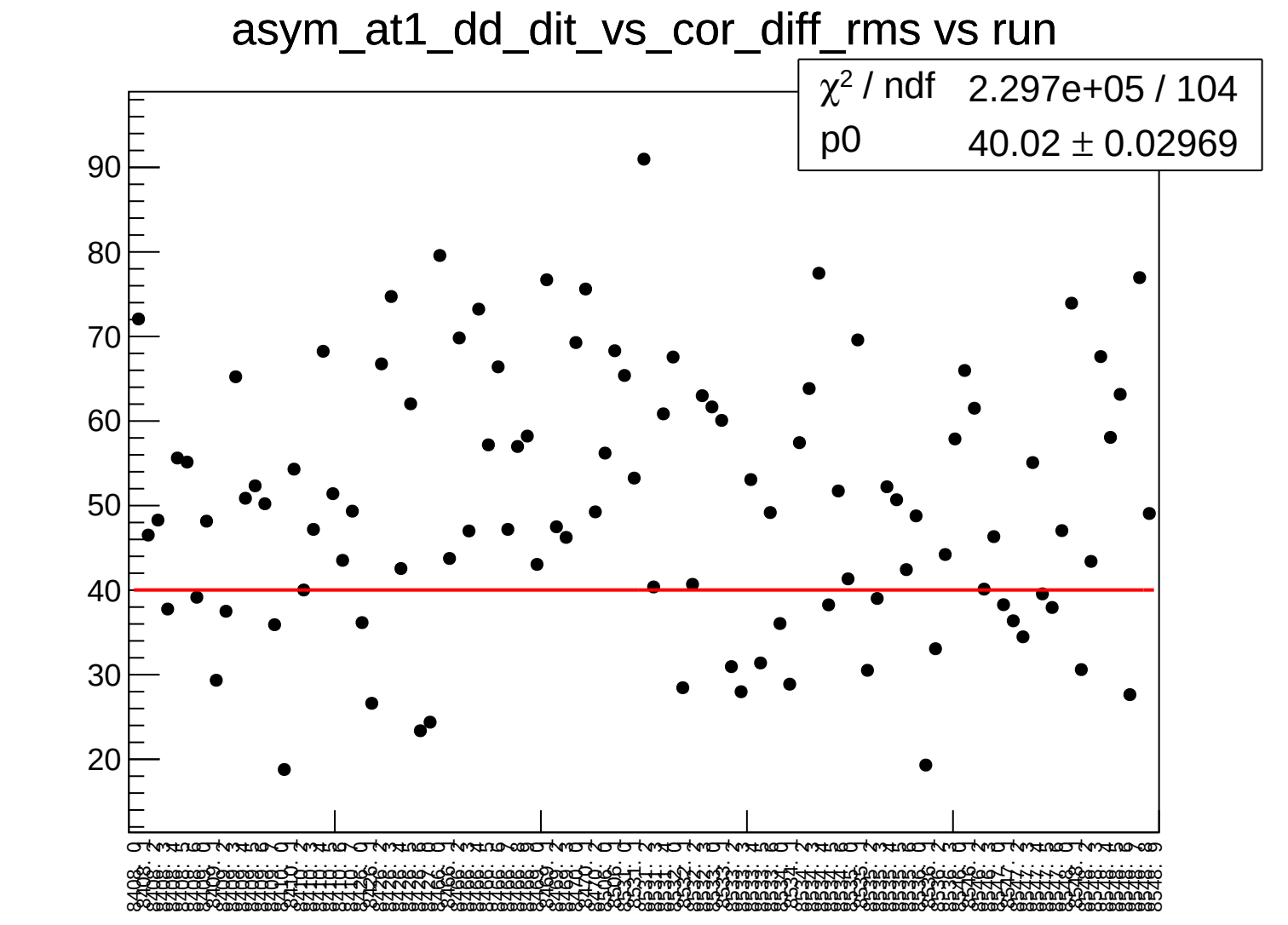

asym_at1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 101.5 / 104
p0 3.965e−14 ± 1.231e−13
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 105
Mean 76.78
Std Dev 5.599
2
1
0
−1
−2

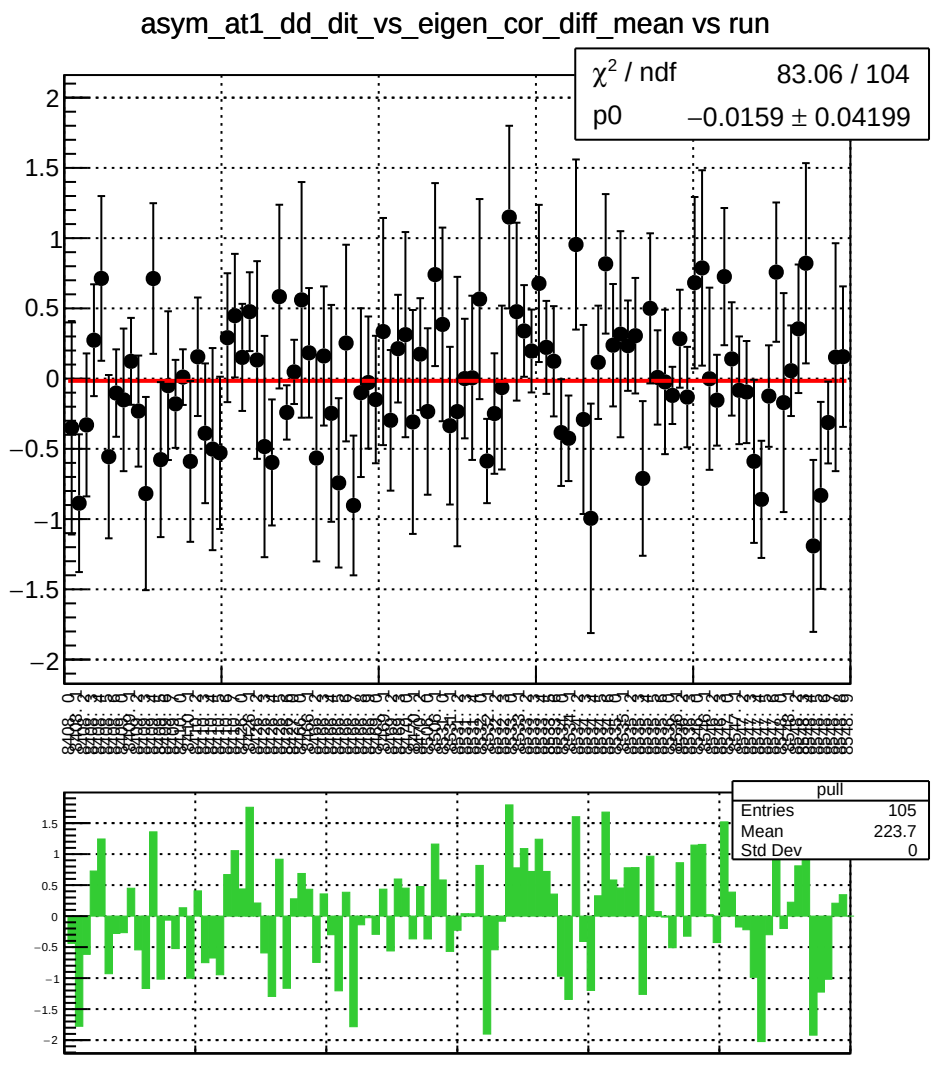

pull1D
Entries 105
Mean 0.08289
Std Dev 0.9797
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

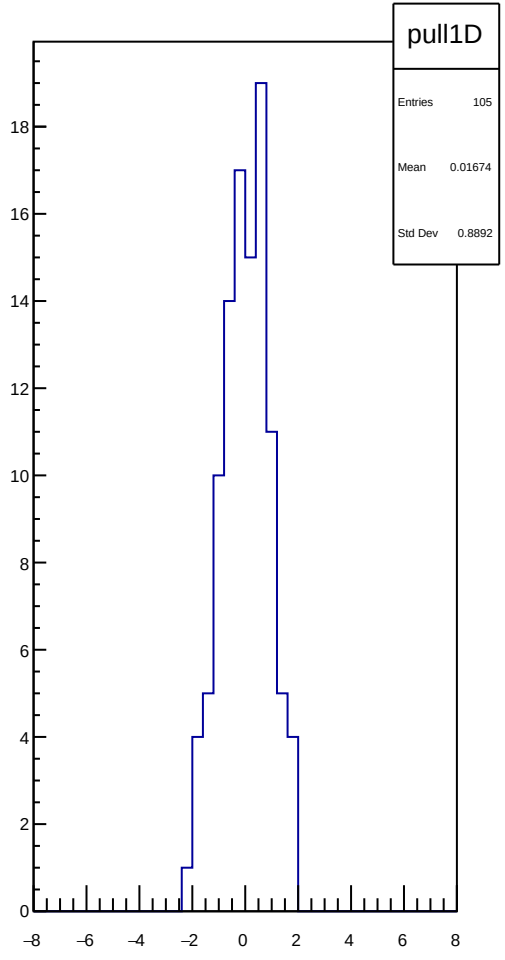

asym_at1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.248e+06 / 104
p0 7.781e−11 ± 8.708e−14
1.2
1
0.8
0.6
0.4
0.2
0

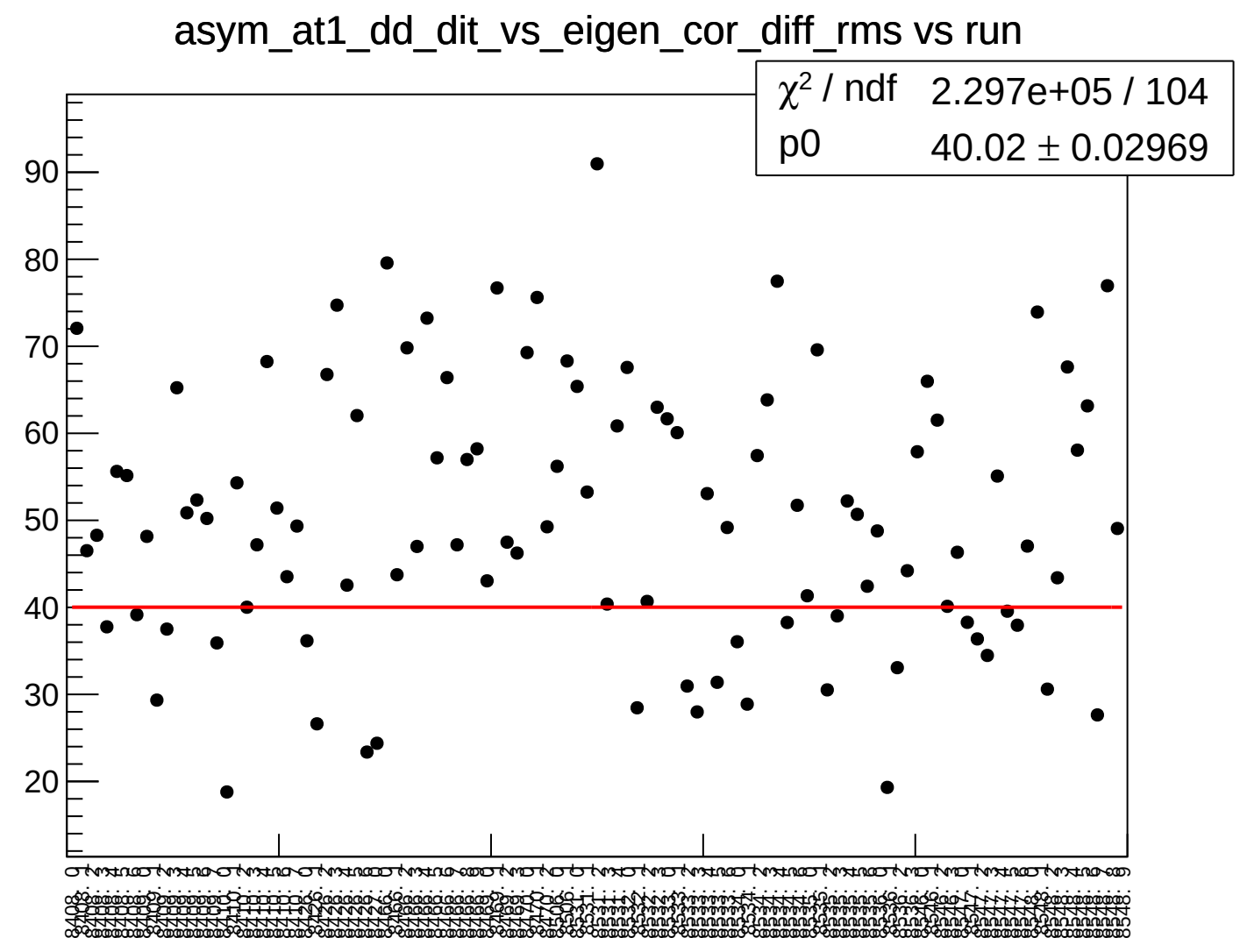

asym_at1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 83.06 / 104
p0 −0.0159 ± 0.04199
pull
Entries 105
Mean 223.7
Std Dev 0

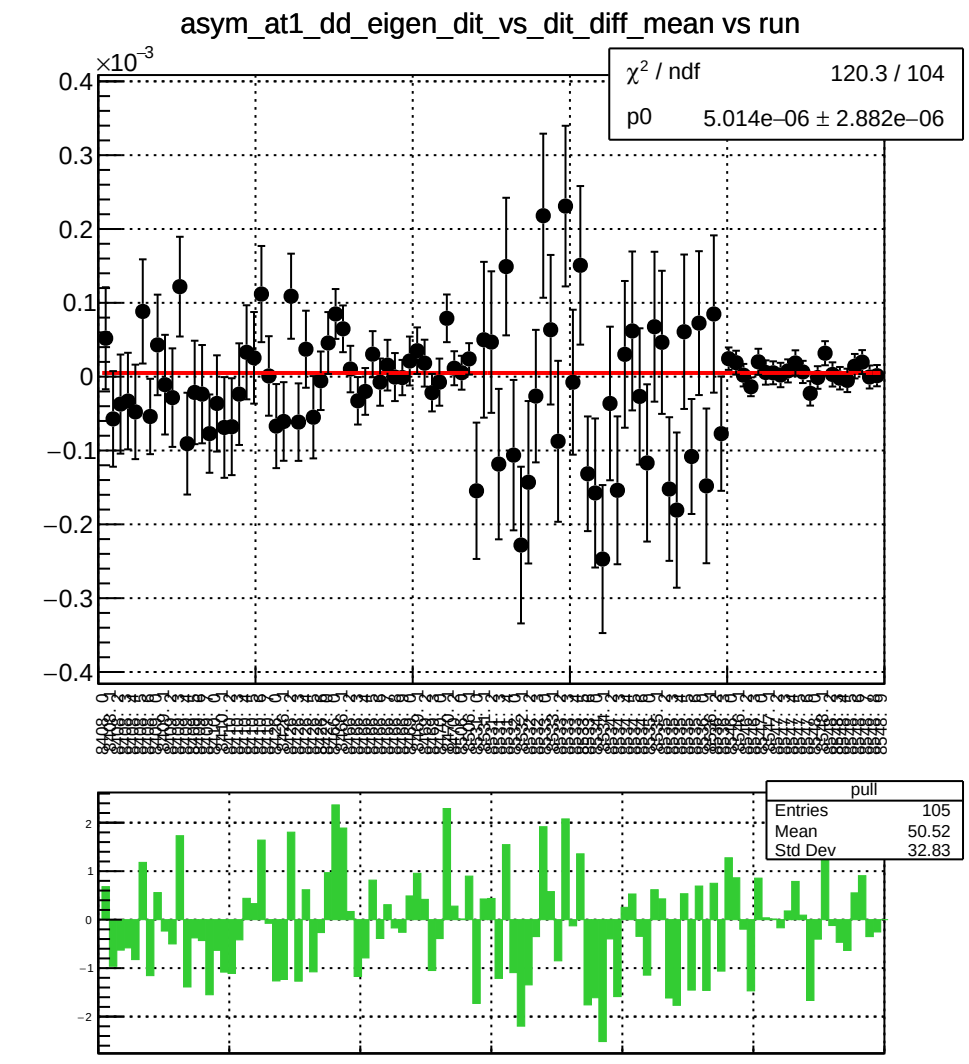

pull1D
Entries 105
Mean 0.01674
Std Dev 0.8892

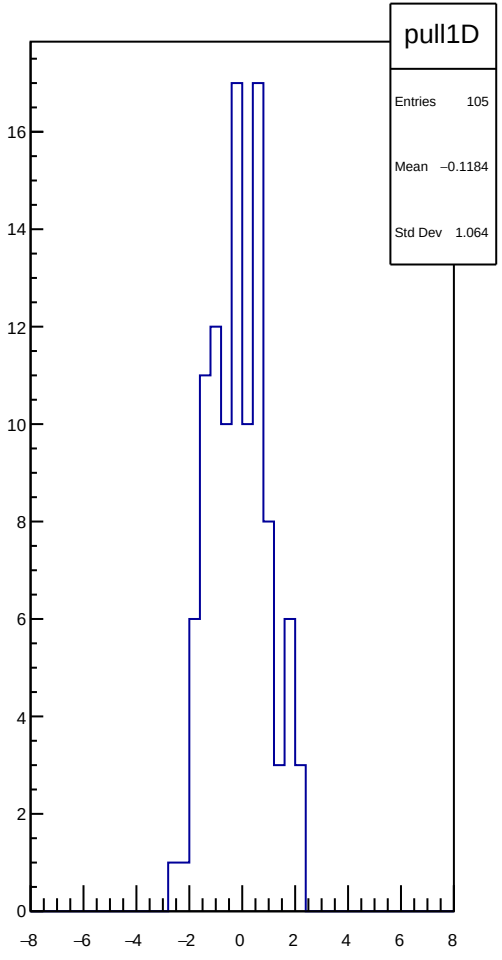

asym_at1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.297e+05 / 104
p0 40.02 ± 0.02969
90
80
70
60
50
40
30
20

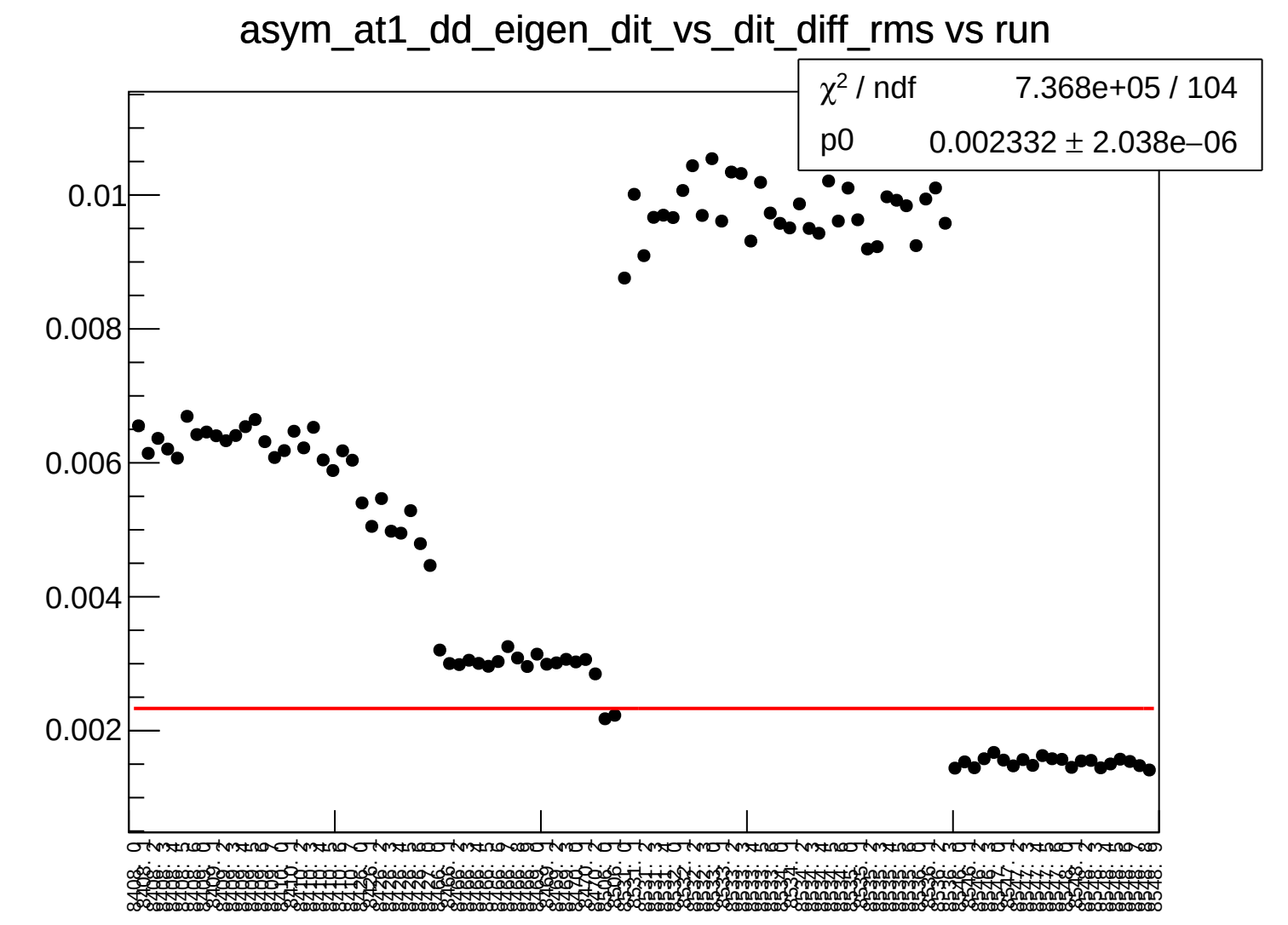

asym_at1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.06 / 104
p0 −0.0159 ± 0.04199
pull
Entries 105
Mean 223.7
Std Dev 0


pull1D
Entries 105
Mean 0.01674
Std Dev 0.8892

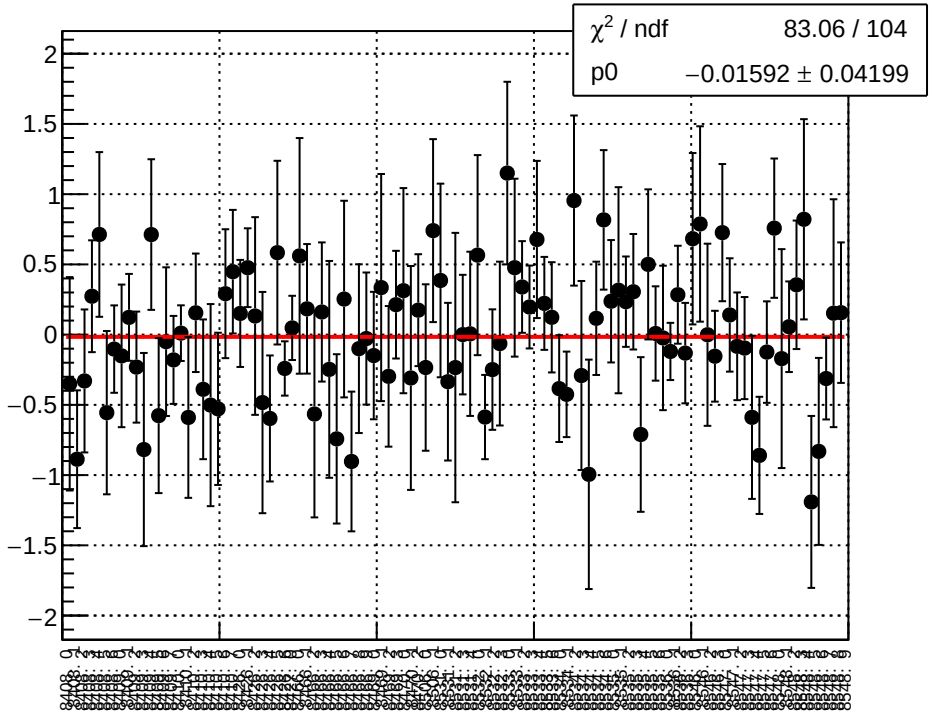

asym_at1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.297e+05 / 104
p0 40.02 ± 0.02969
90
80
70
60
50
40
30
20

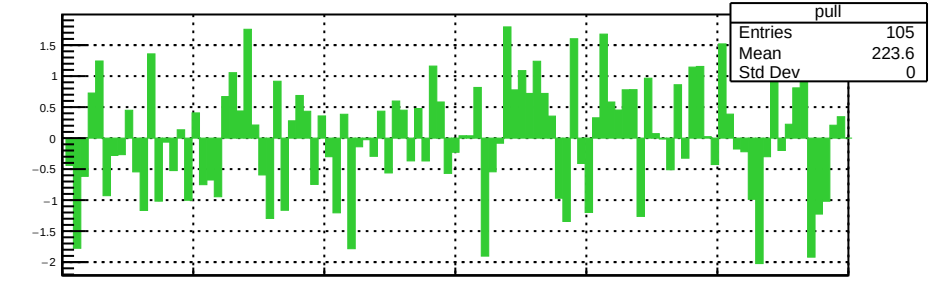

asym_at1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 120.3 / 104
p0 5.014e−06 ± 2.882e−06
pull
Entries 105
Mean 50.52
Std Dev 32.83

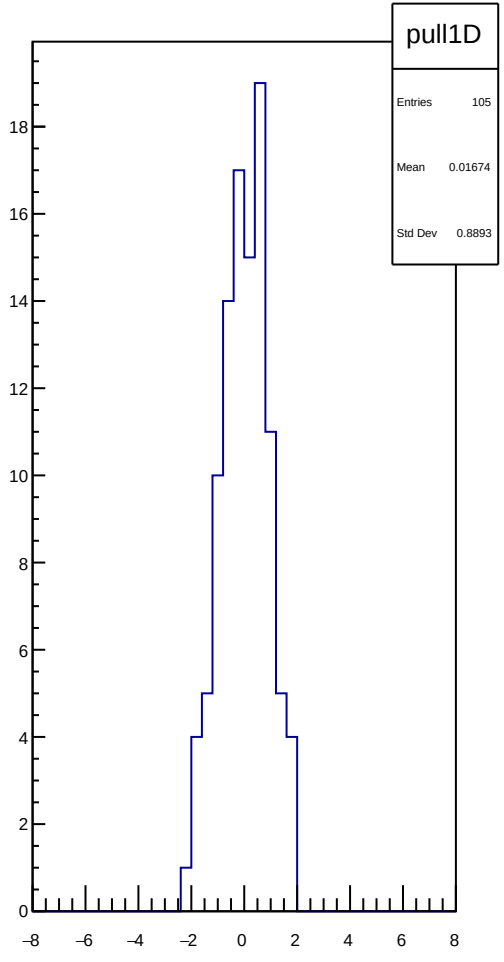

pull1D
Entries 105
Mean −0.1184
Std Dev 1.064

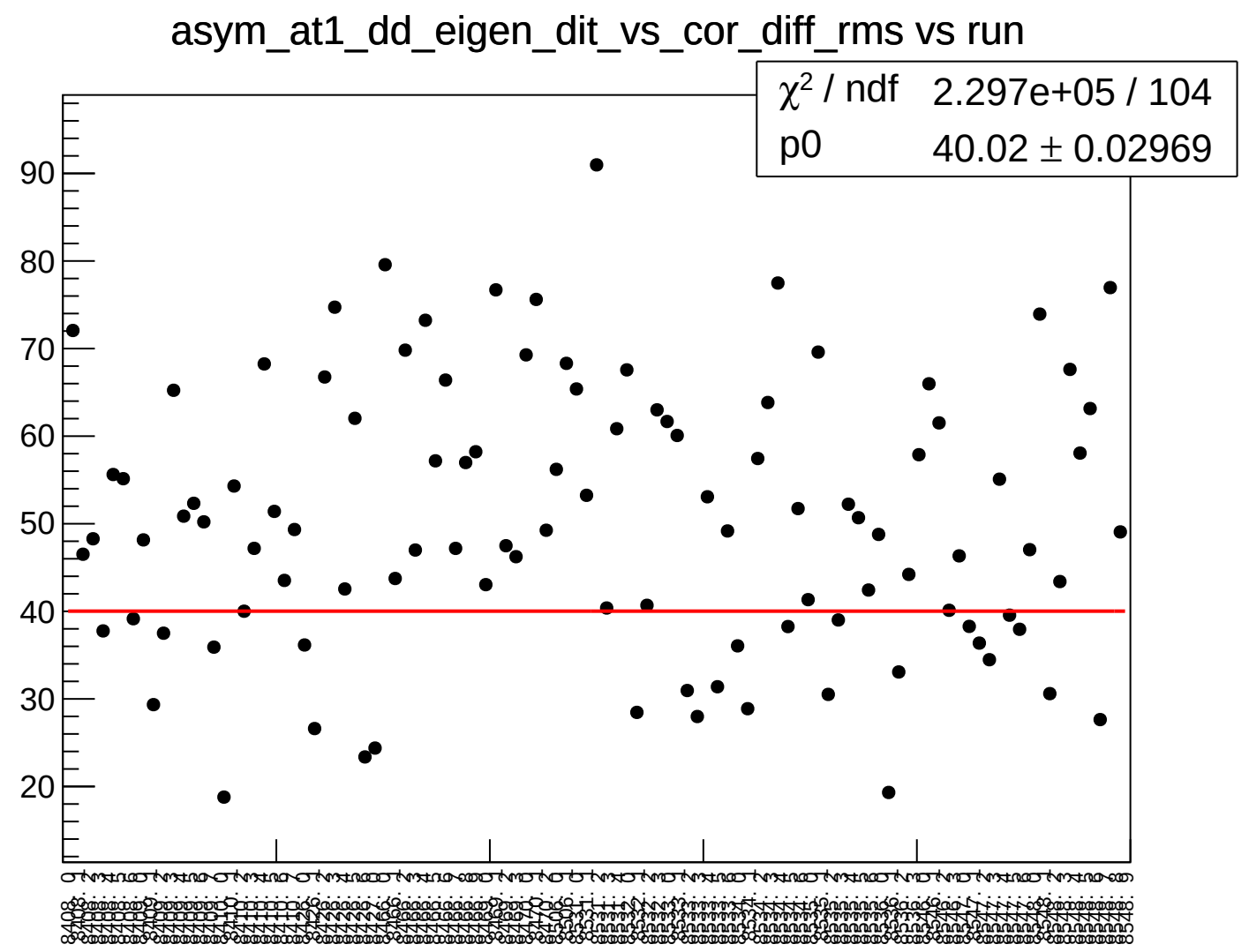

asym_at1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.368e+05 / 104
p0 0.002332 ± 2.038e−06
0.01
0.008
0.006
0.004
0.002

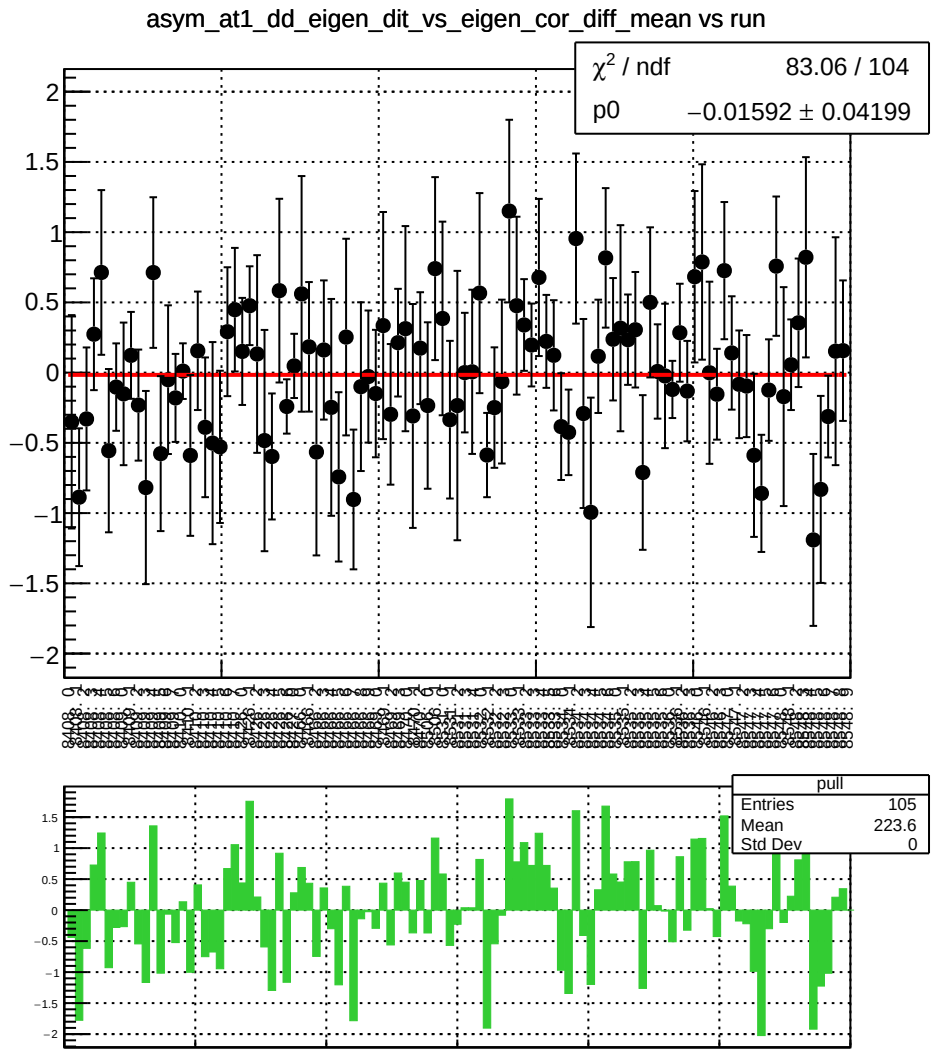
asym_at1_dd_eigen_dit_vs_cor_diff_mean vs run

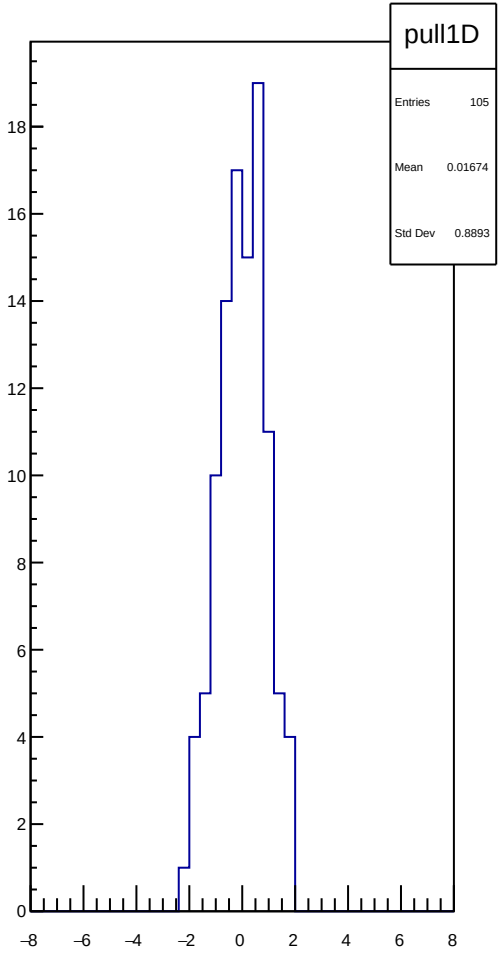


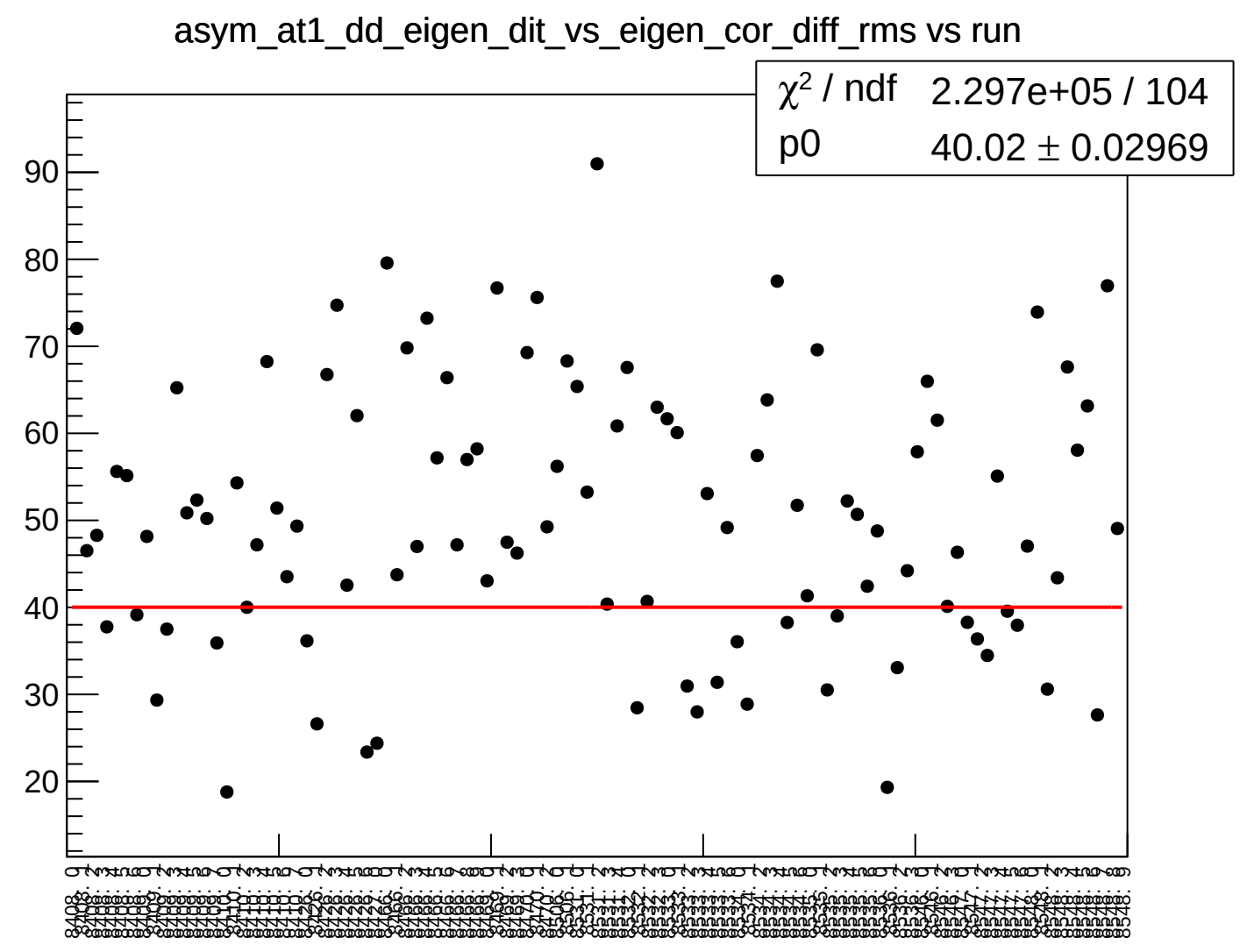


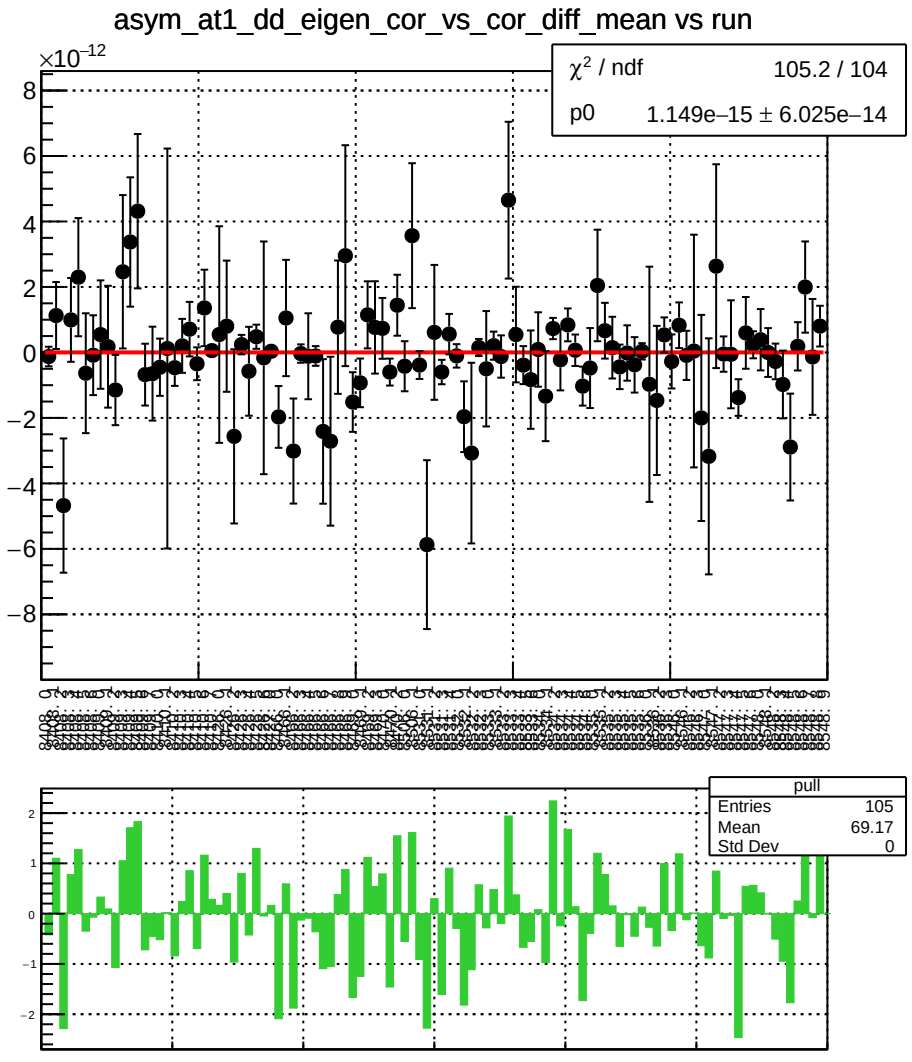


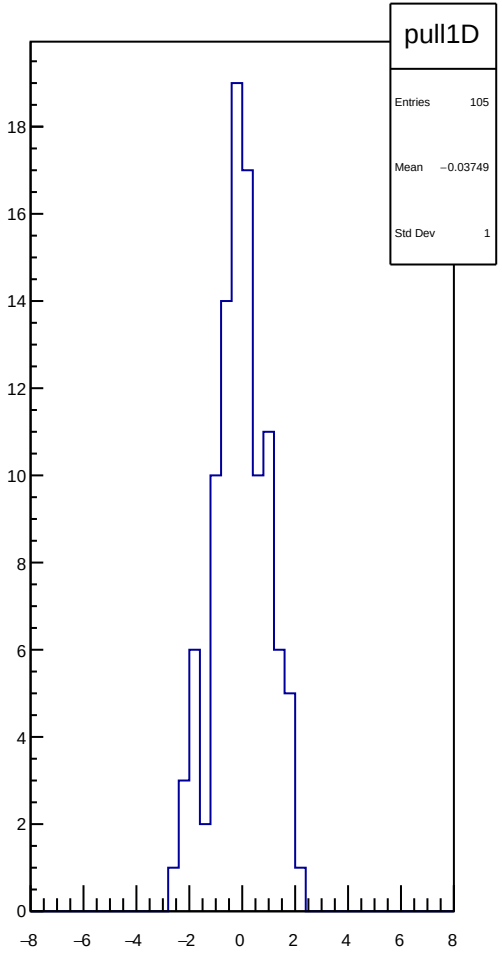

asym_at1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.297e+05 / 104
p0 40.02 ± 0.02969
90
80
70
60
50
40
30
20

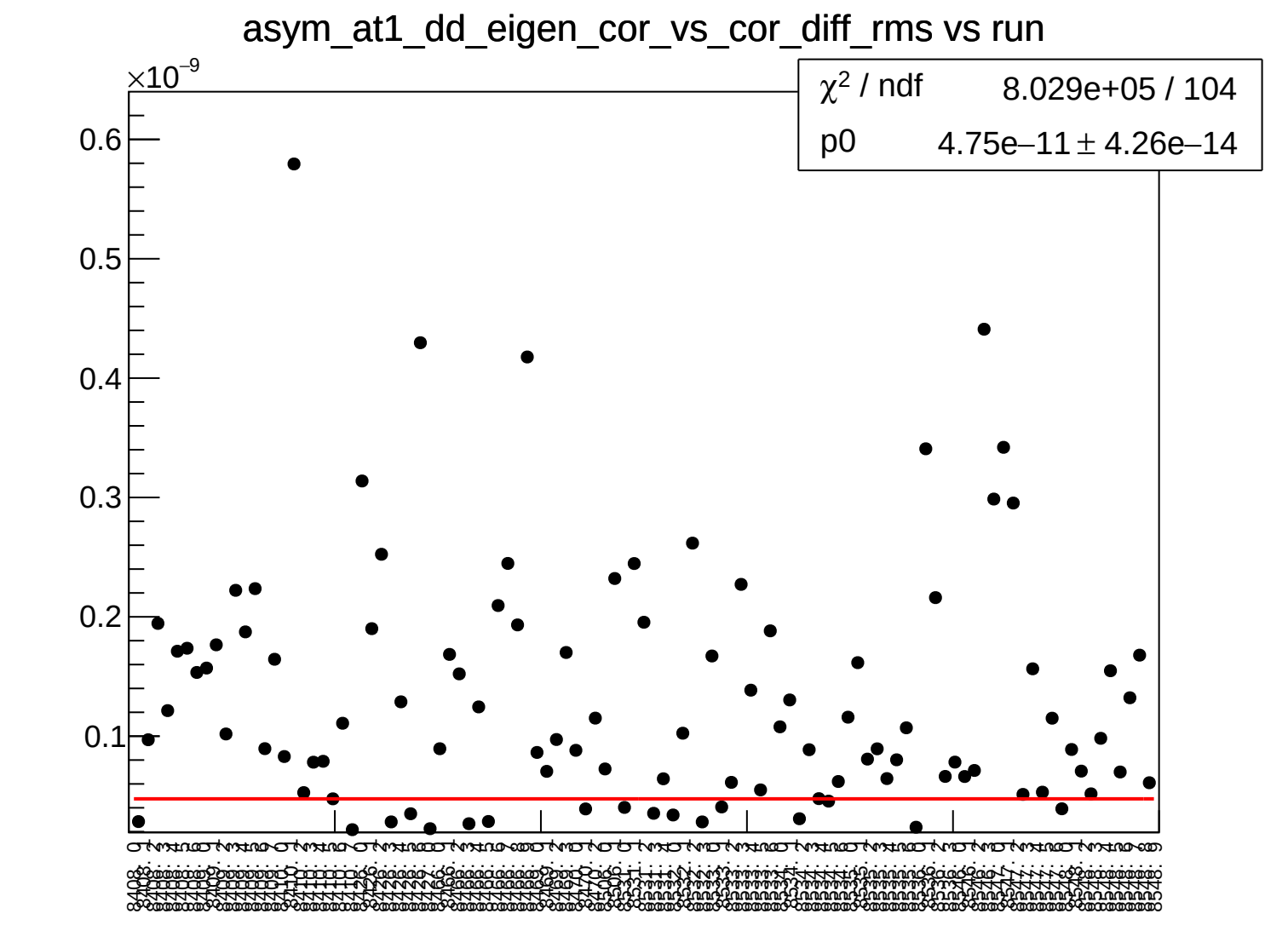

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 83.06 / 104
p0 −0.01592 ± 0.04199
pull
Entries 105
Mean 223.6
Std Dev 0

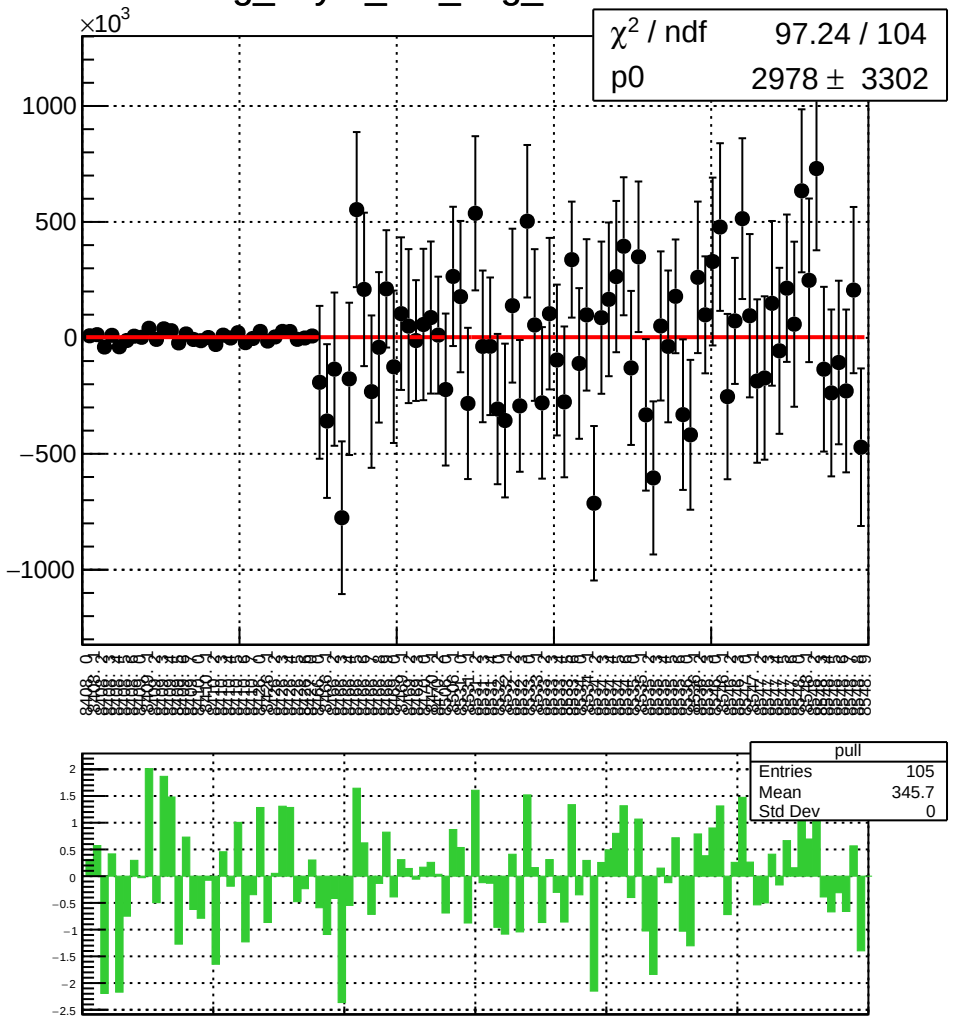

pull1D
Entries 105
Mean 0.01674
Std Dev 0.8893

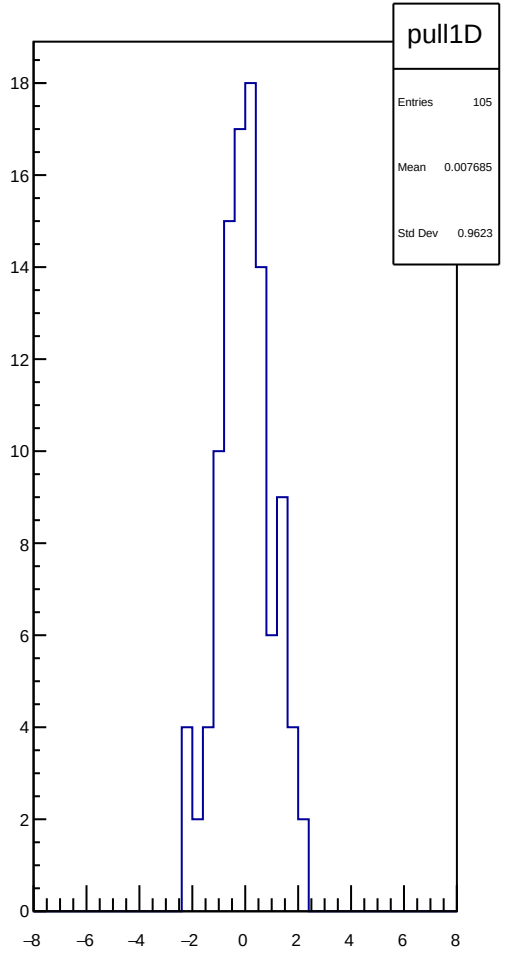

asym_at1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.297e+05 / 104
p0 40.02 ± 0.02969
90
80
70
60
50
40
30
20

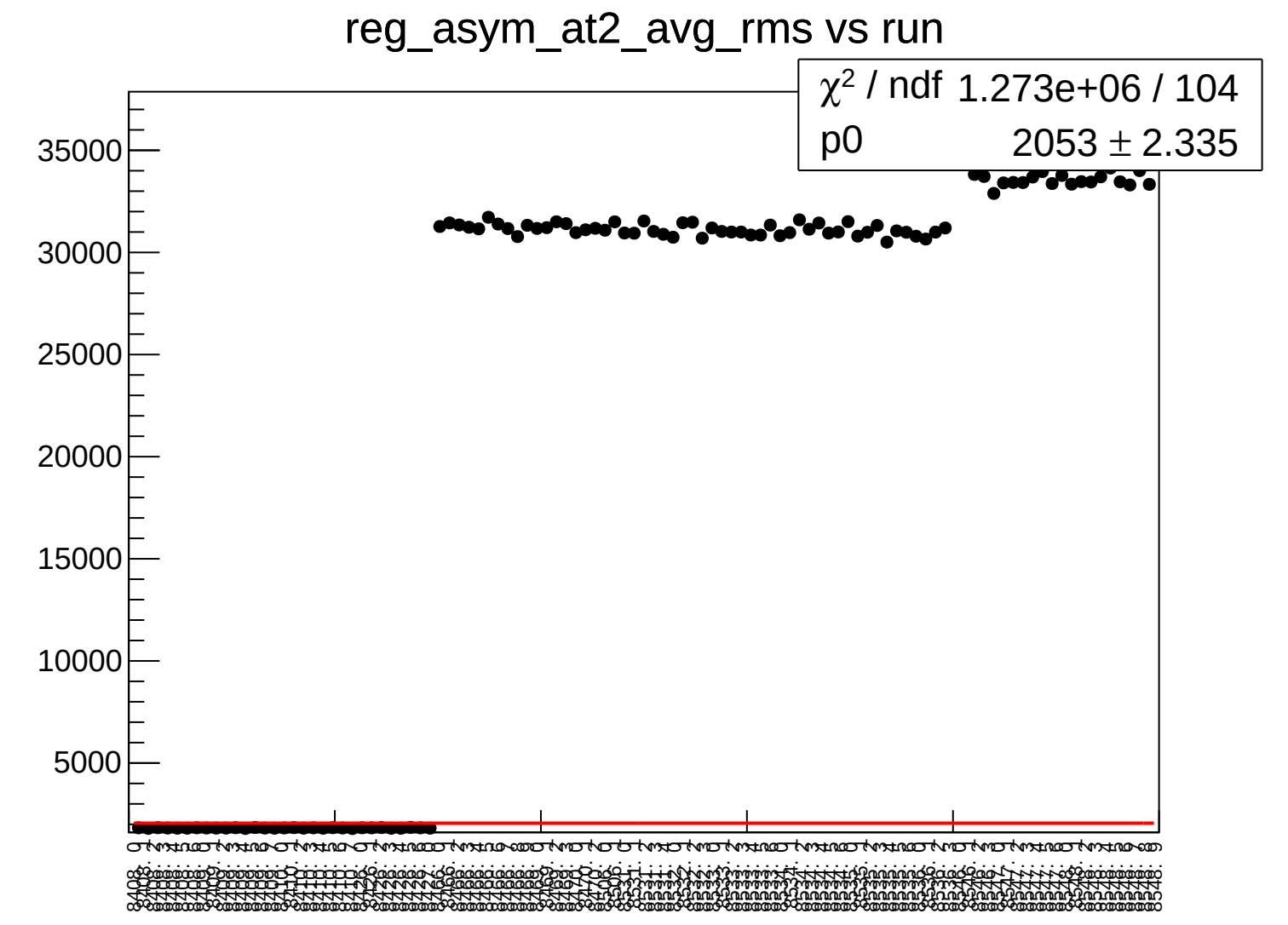

asym_at1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 105.2 / 104
p0 1.149e−15 ± 6.025e−14
pull
Entries 105
Mean 69.17
Std Dev 0

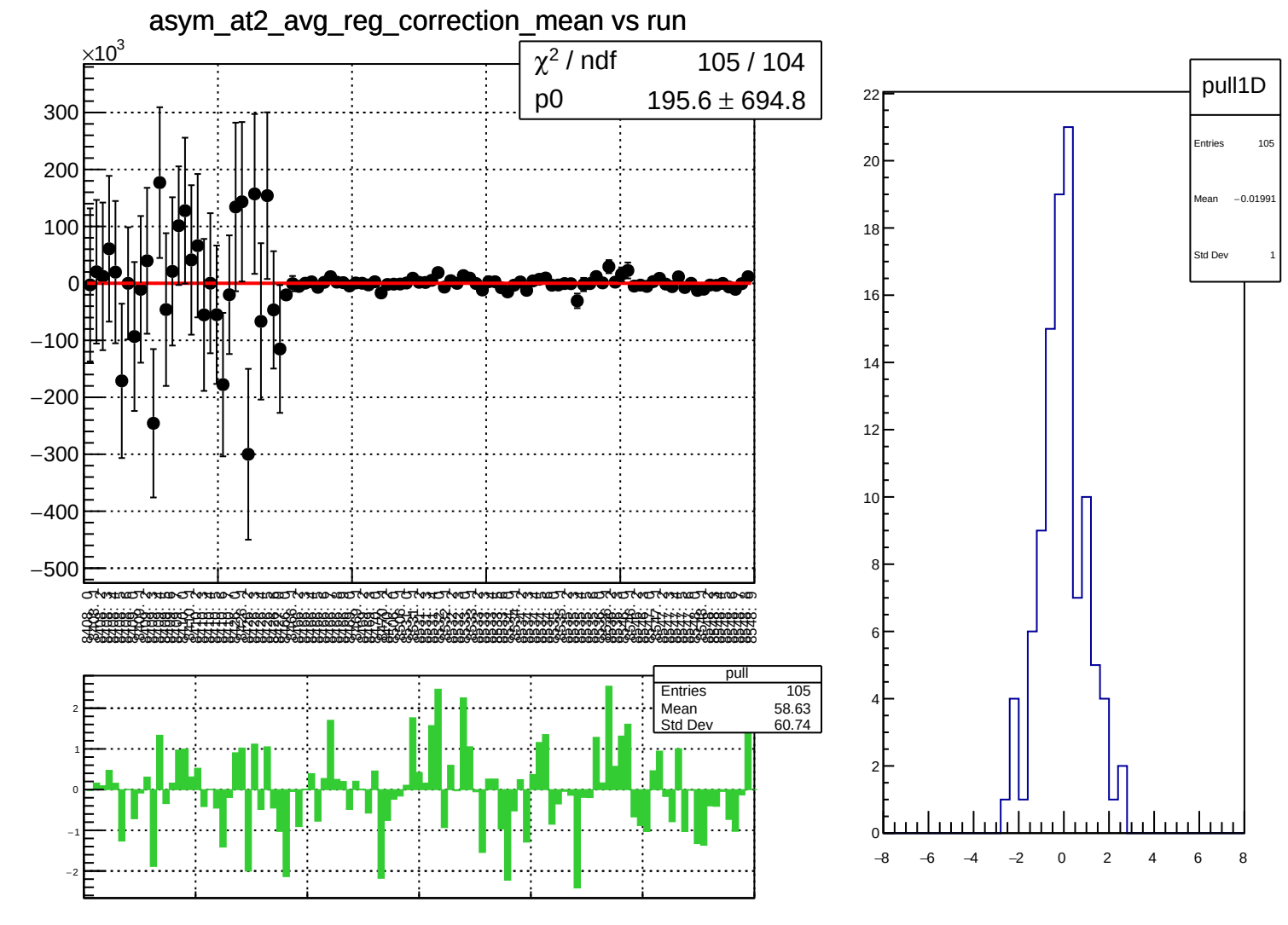

pull1D
Entries 105
Mean −0.03749
Std Dev 1

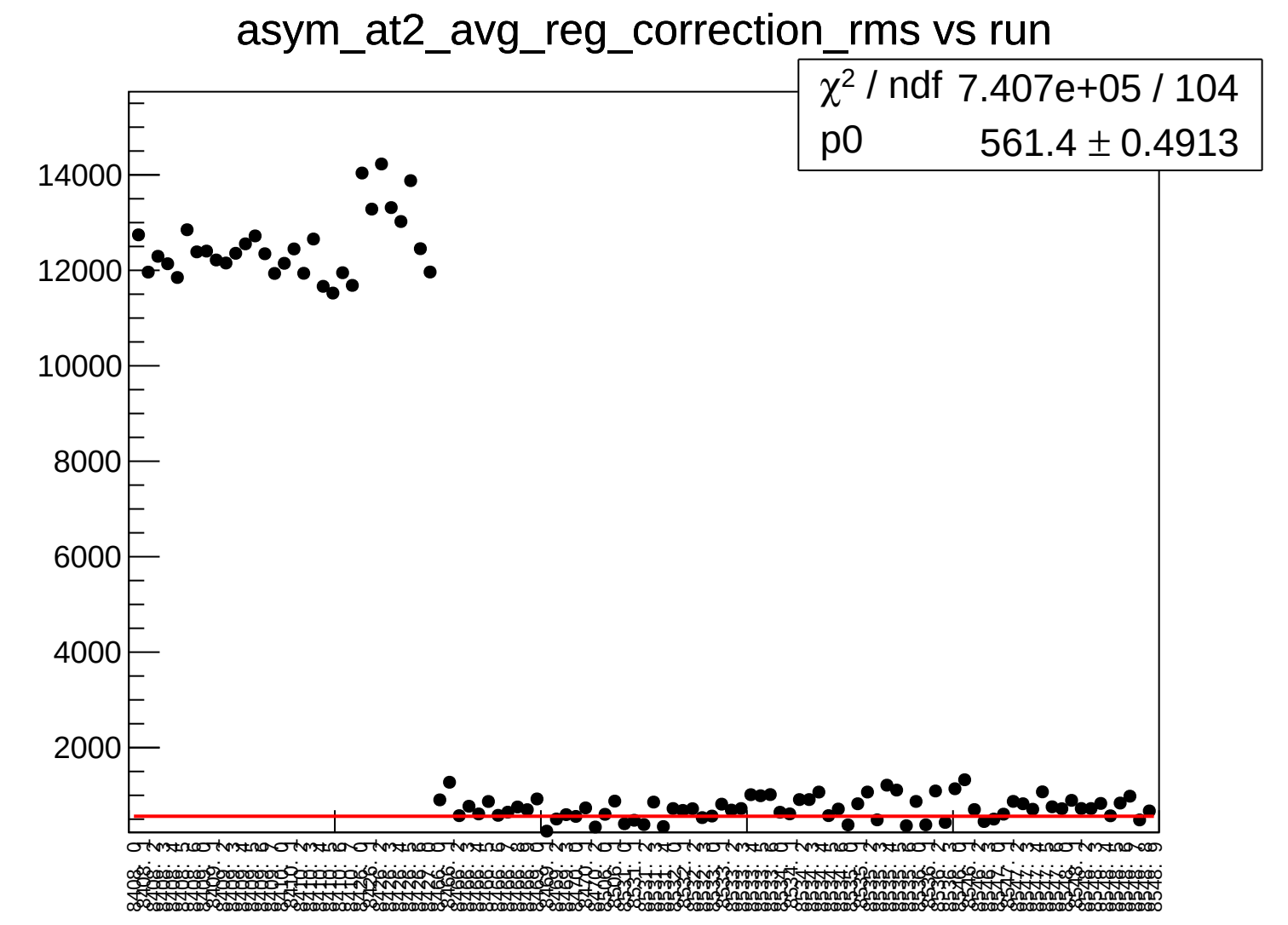

asym_at1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.029e+05 / 104
p0 4.75e−11 ± 4.26e−14
0.6
0.5
0.4
0.3
0.2
0.1

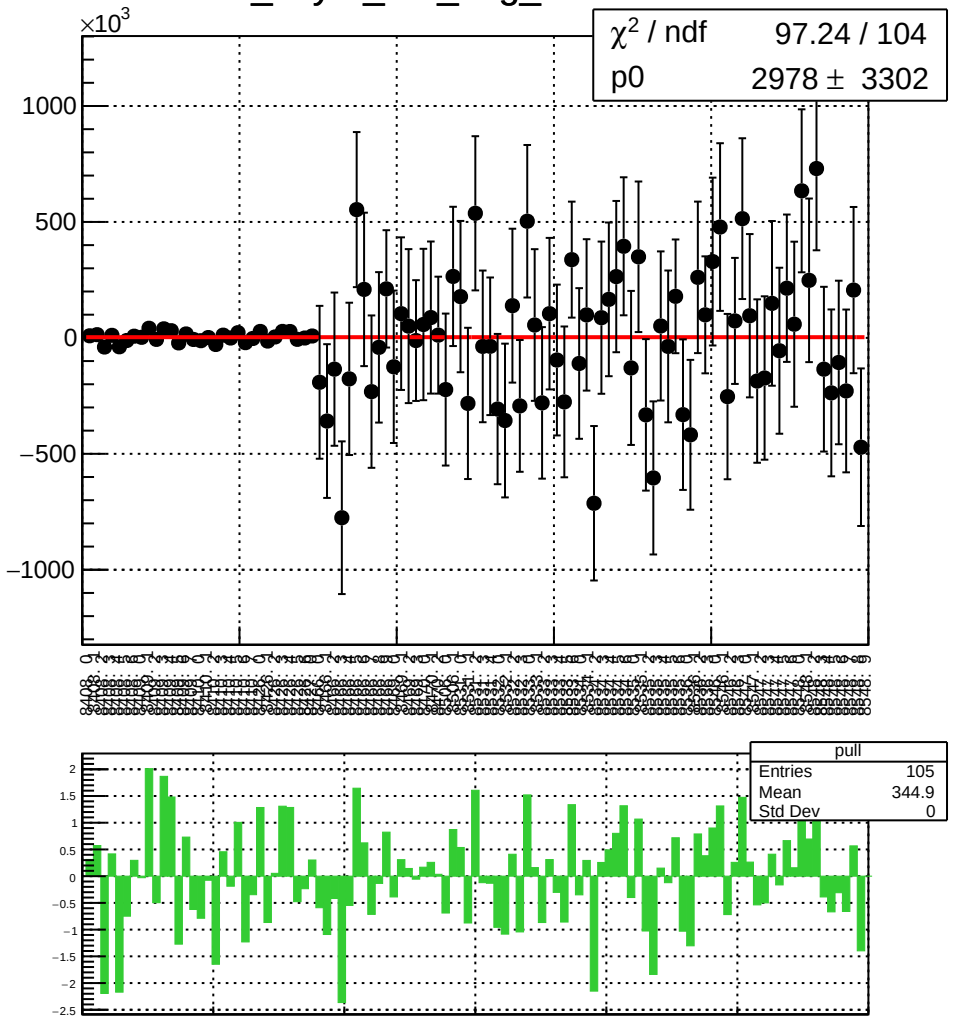

reg_asym_at2_avg_mean vs run
×10^3
χ^2 / ndf 97.24 / 104
p0 2978 ± 3302
1000
500
0
−500
−1000
pull
Entries 105
Mean 345.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

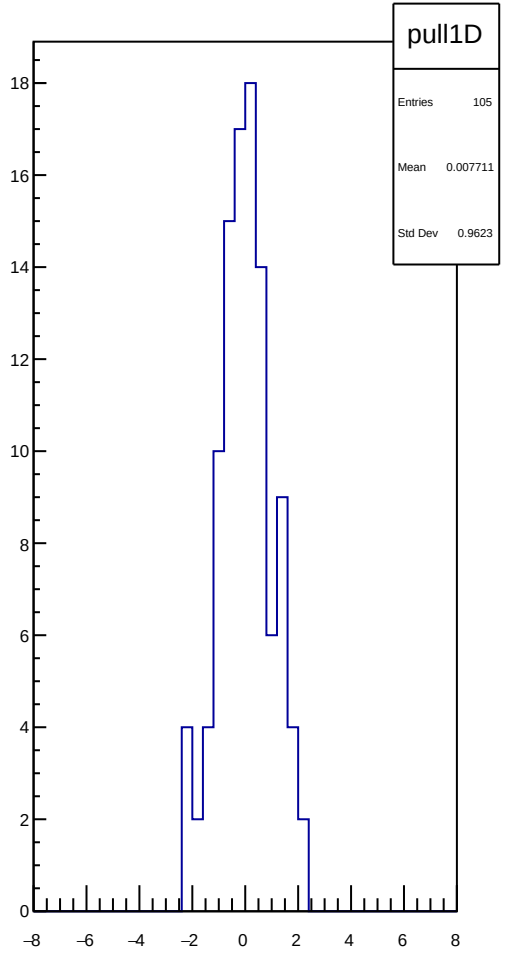

pull1D
Entries 105
Mean 0.007685
Std Dev 0.9623
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_at2_avg_rms vs run
χ² / ndf 1.273e+06 / 104
p0 2053 ± 2.335
35000
30000
25000
20000
15000
10000
5000


asym_at2_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 105 / 104
p0 195.6 ± 694.8
300
200
100
0
−100
−200
−300
−400
−500
pull
Entries 105
Mean 58.63
Std Dev 60.74
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.01991
Std Dev 1
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_at2_avg_reg_correction_rms vs run
χ² / ndf 7.407e+05 / 104
p0 561.4 ± 0.4913
14000
12000
10000
8000
6000
4000
2000


cor_asym_at2_avg_mean vs run
×10^3
χ^2 / ndf 97.24 / 104
p0 2978 ± 3302
1000
500
0
−500
−1000
pull
Entries 105
Mean 344.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 105
Mean 0.007711
Std Dev 0.9623
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
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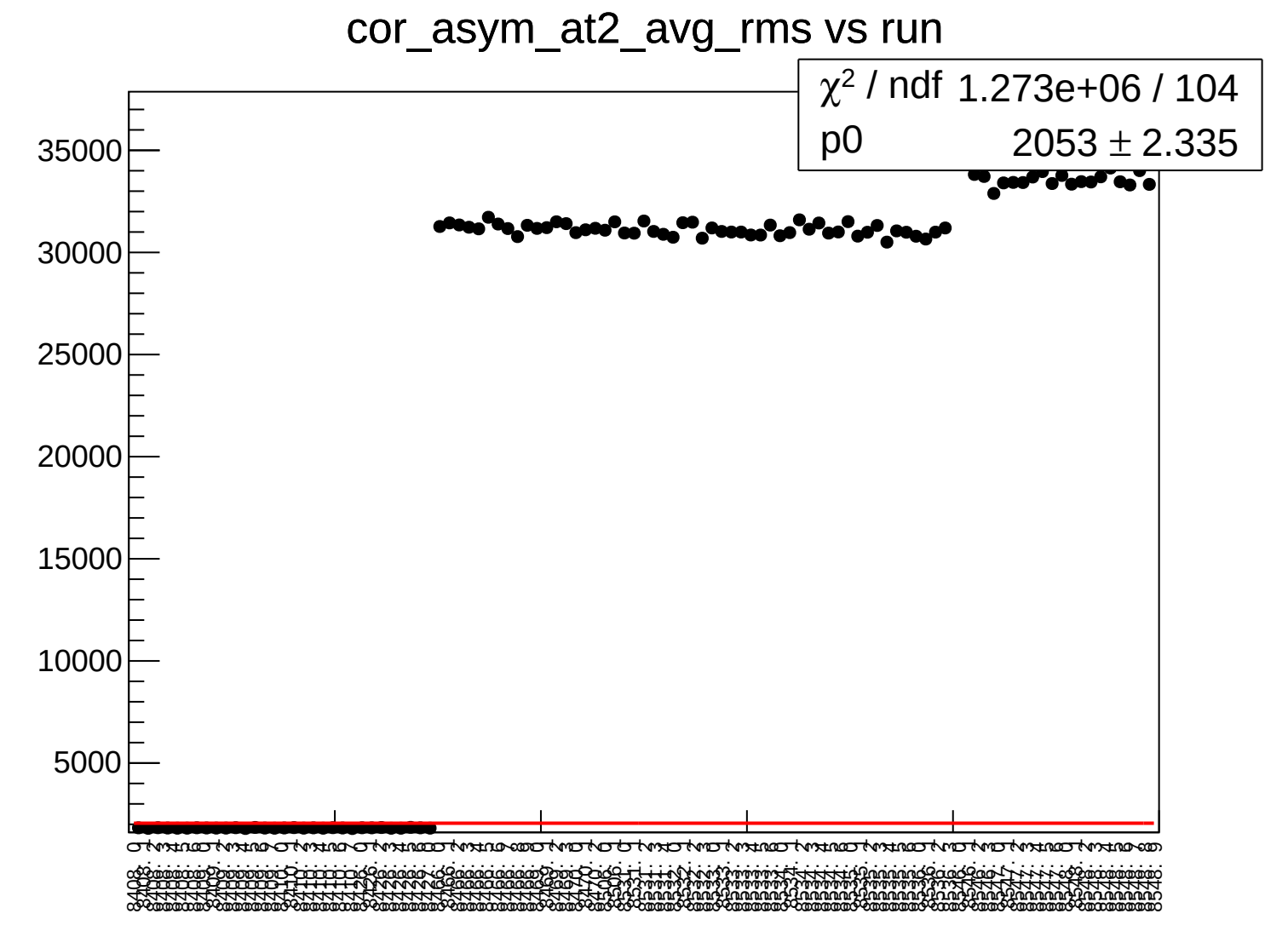
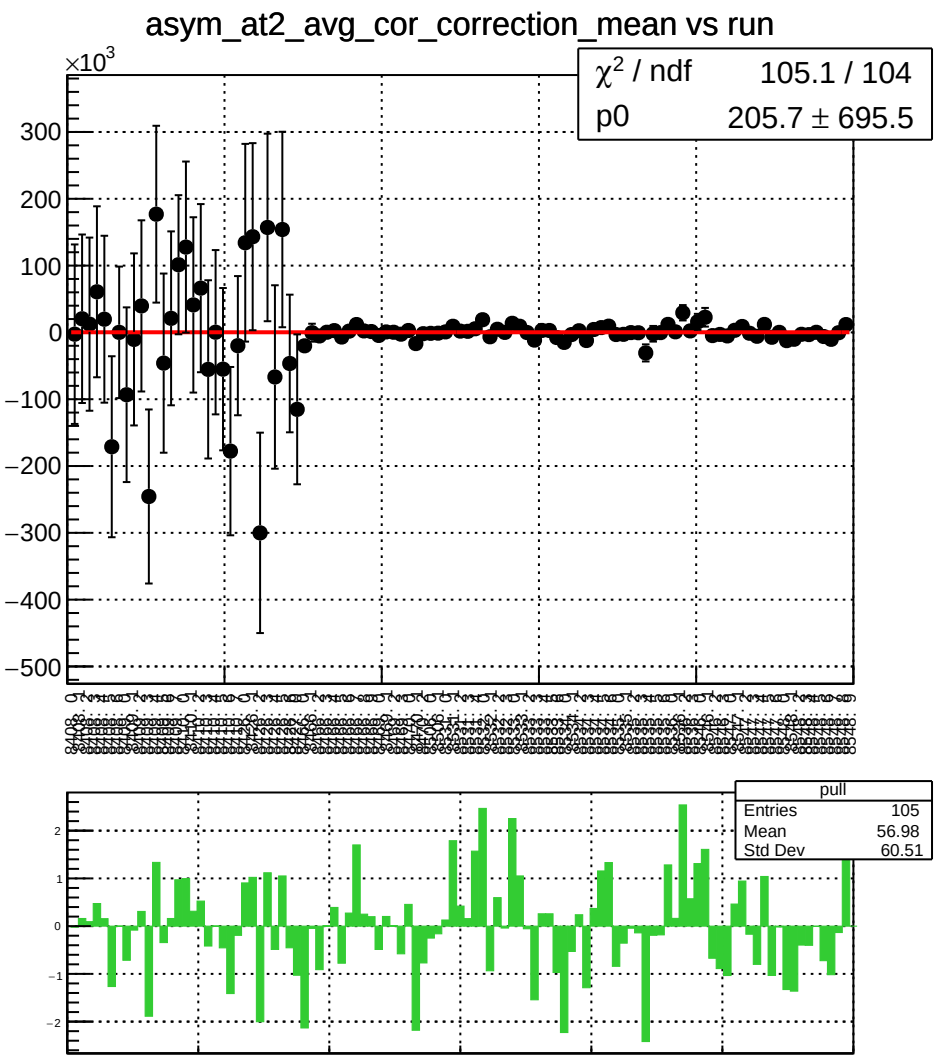
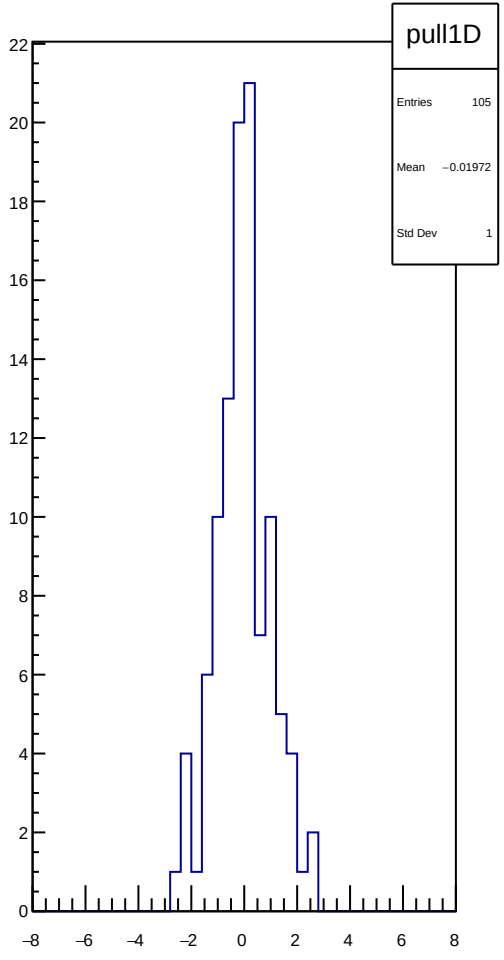
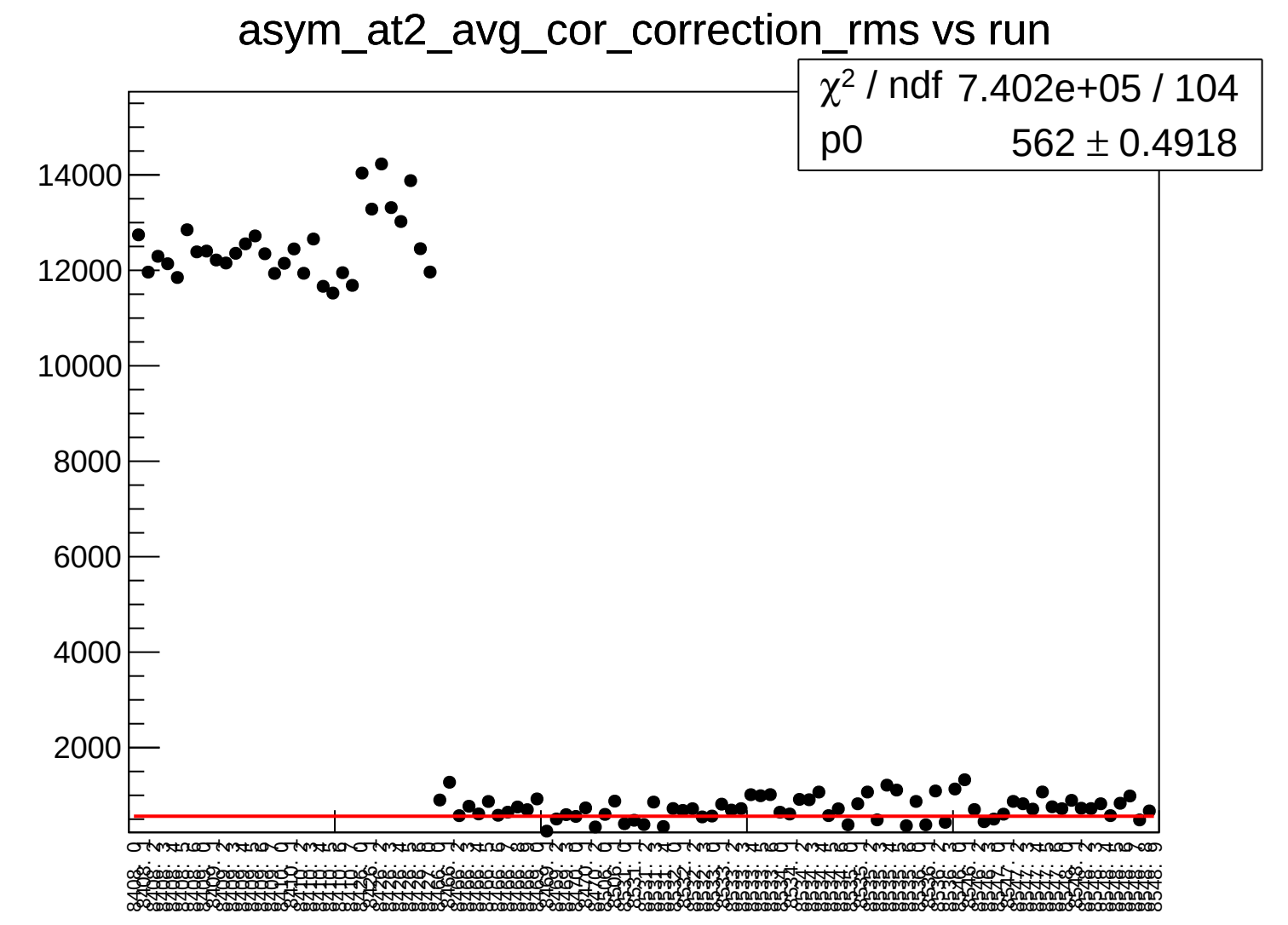
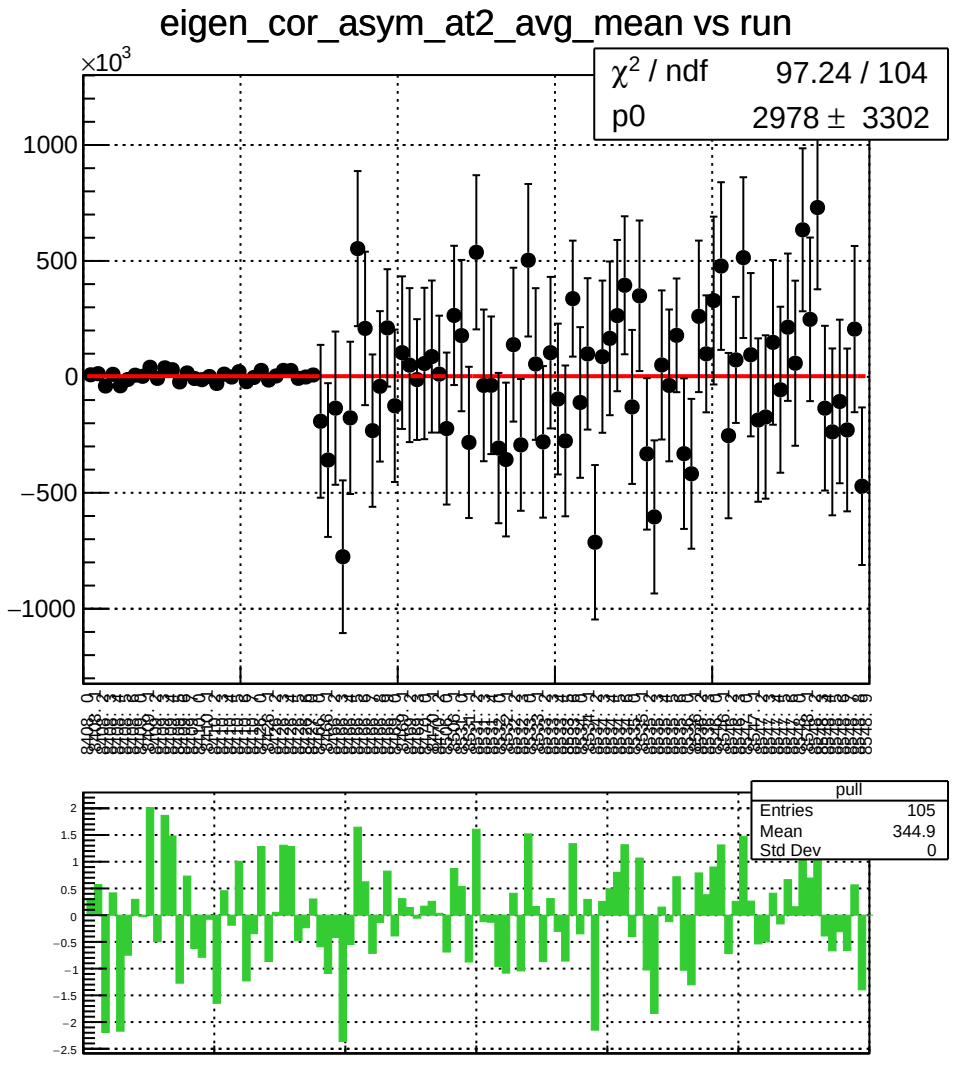
0
2
4
6
8

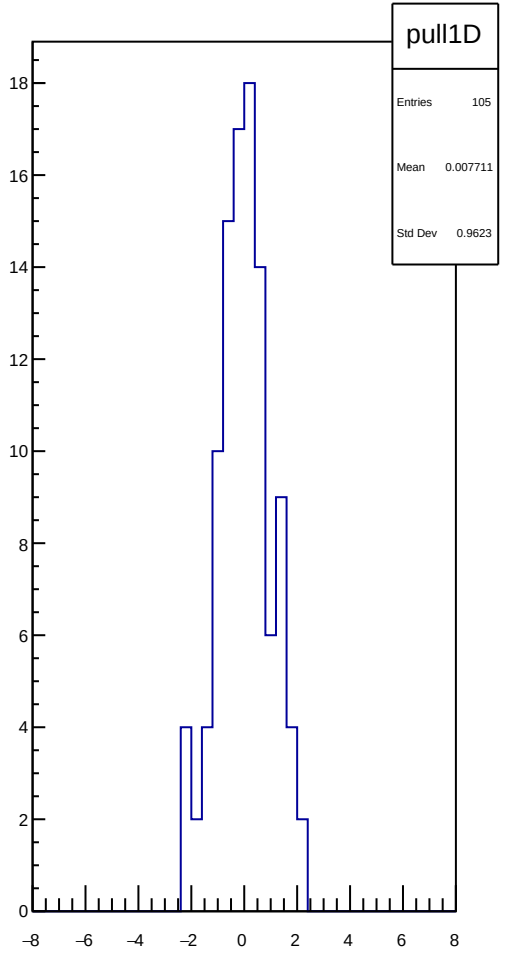

cor_asym_at2_avg_rms vs run
χ² / ndf 1.273e+06 / 104
p0 2053 ± 2.335
35000
30000
25000
20000
15000
10000
5000

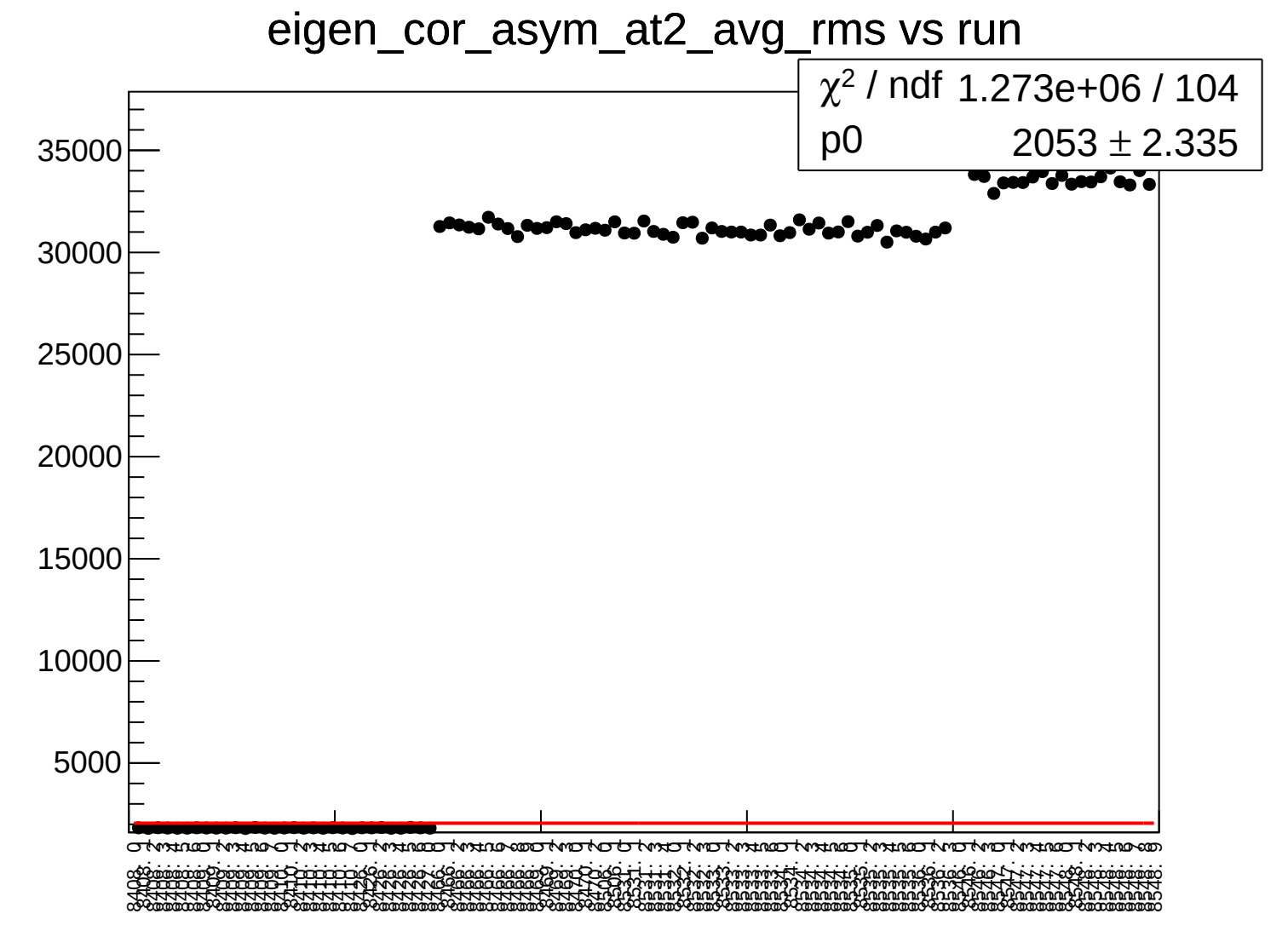

asym_at2_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 105.1 / 104
p0 205.7 ± 695.5
300
200
100
0
−100
−200
−300
−400
−500
pull
Entries 105
Mean 56.98
Std Dev 60.51
2
1
0
−1
−2

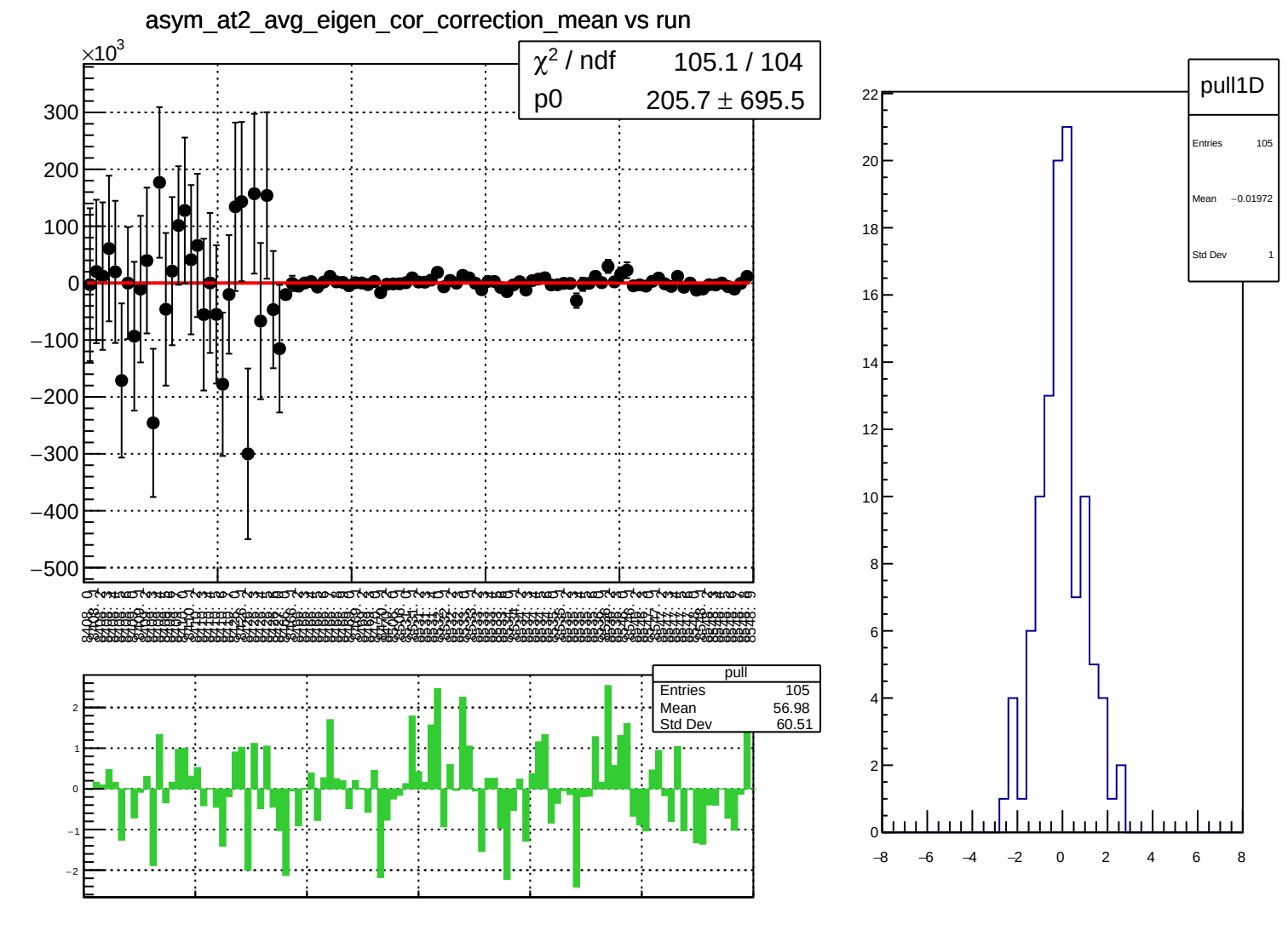

pull1D
Entries 105
Mean −0.01972
Std Dev 1
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

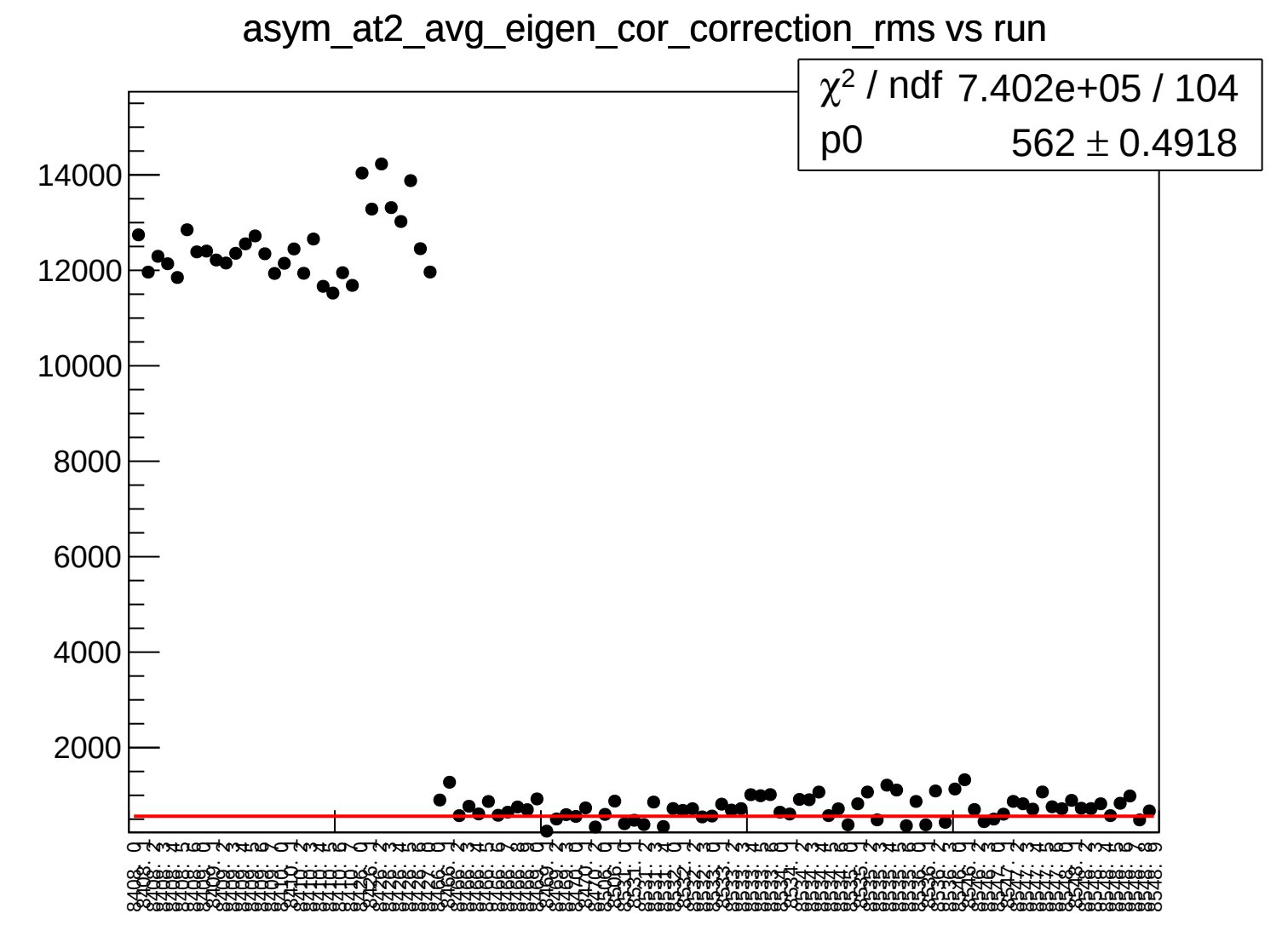

asym_at2_avg_cor_correction_rms vs run
χ² / ndf 7.402e+05 / 104
p0 562 ± 0.4918
14000
12000
10000
8000
6000
4000
2000

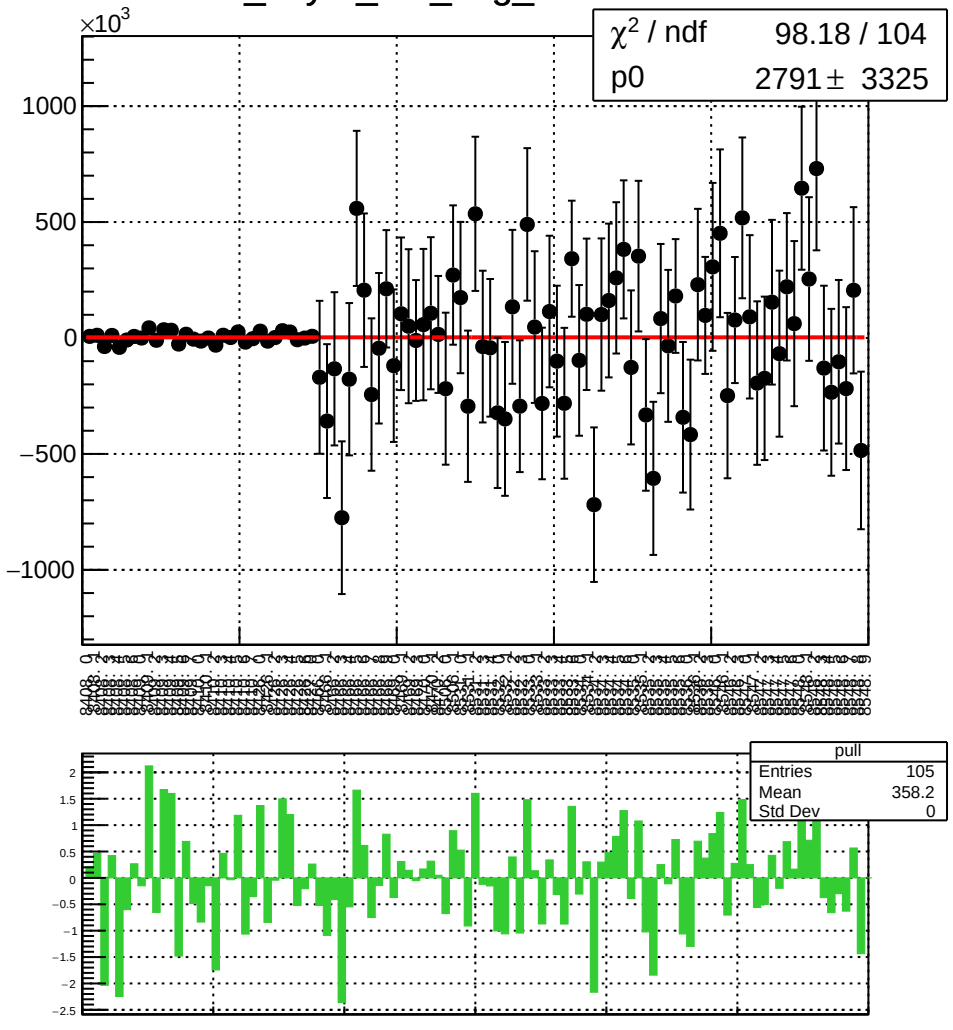

eigen_cor_asym_at2_avg_mean vs run
×10^3
χ^2 / ndf 97.24 / 104
p0 2978 ± 3302
1000
500
0
−500
−1000
pull
Entries 105
Mean 344.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

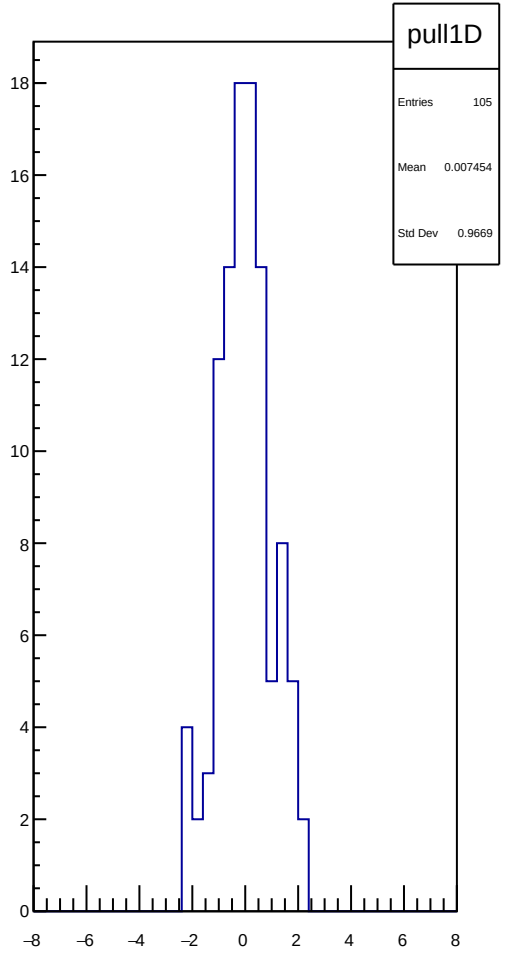

pull1D
Entries 105
Mean 0.007711
Std Dev 0.9623
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

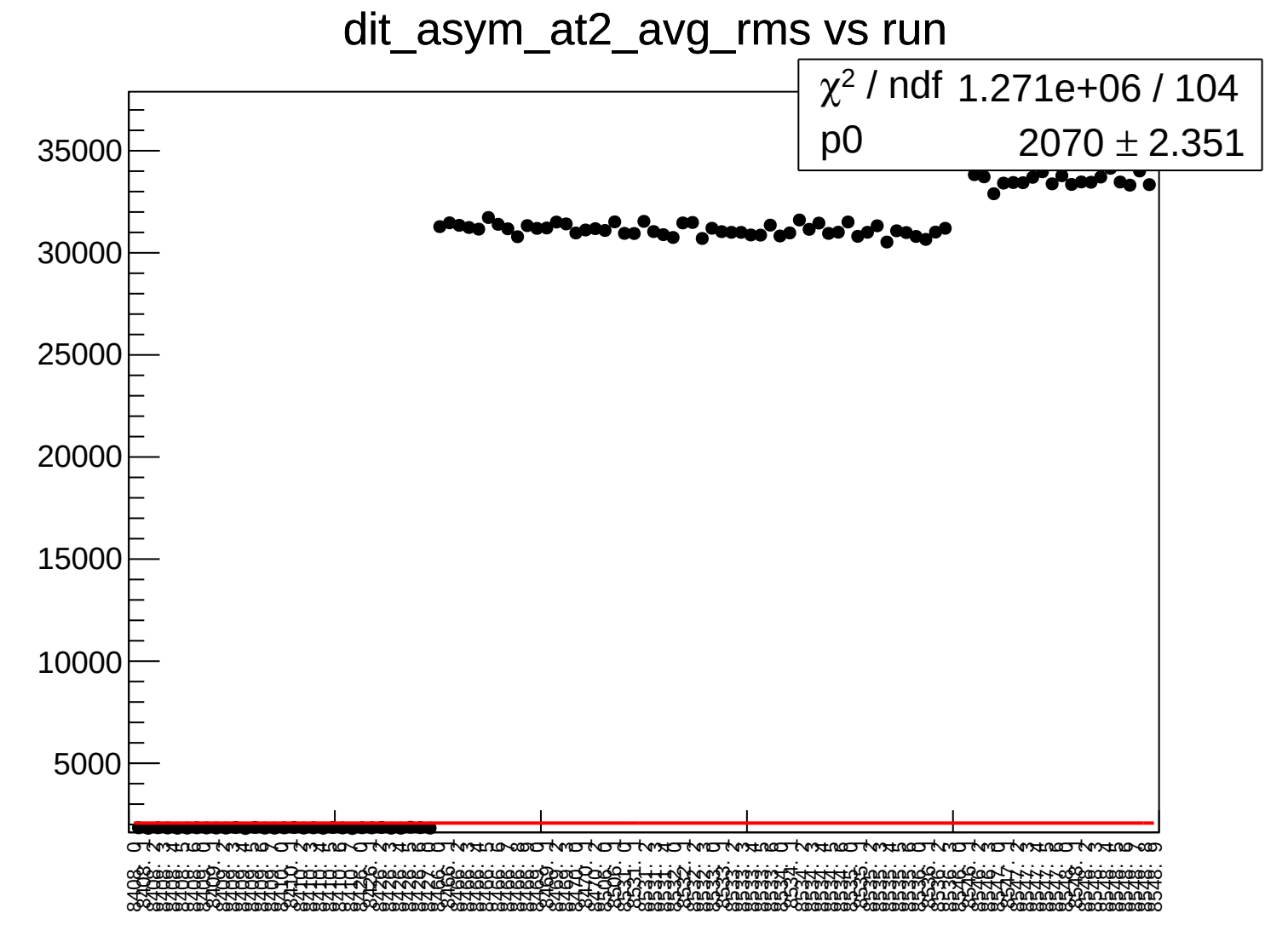

eigen_cor_asym_at2_avg_rms vs run
χ² / ndf 1.273e+06 / 104
p0 2053 ± 2.335
35000
30000
25000
20000
15000
10000
5000

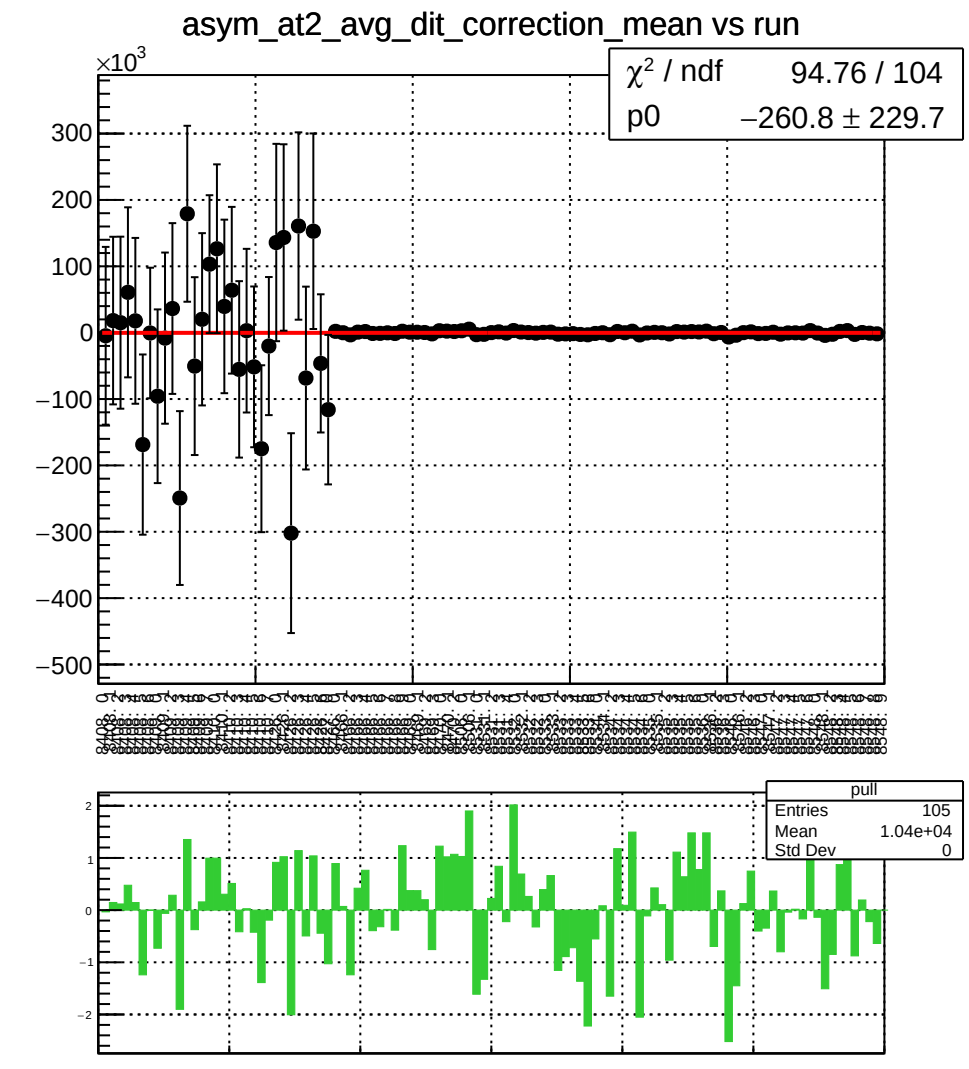

asym_at2_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 105.1 / 104
p0 205.7 ± 695.5
300
200
100
0
−100
−200
−300
−400
−500
pull
Entries 105
Mean 56.98
Std Dev 60.51
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.01972
Std Dev 1
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

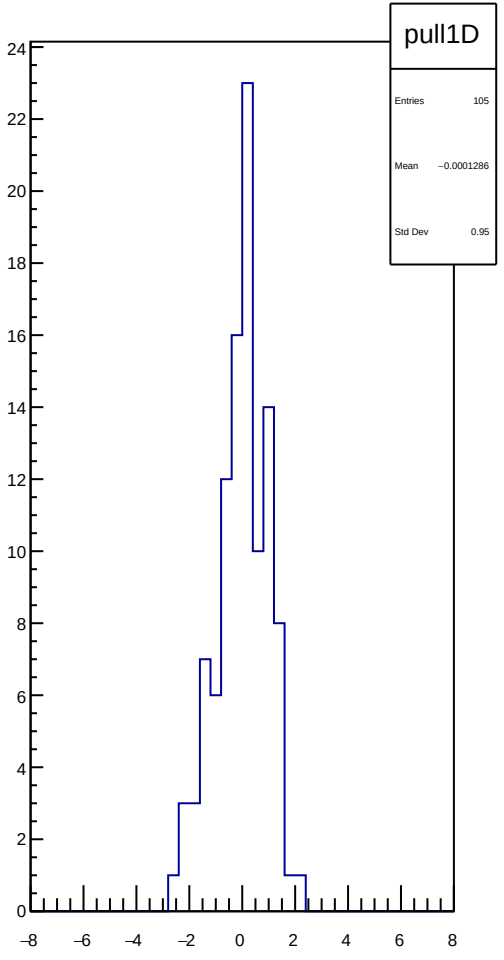

asym_at2_avg_eigen_cor_correction_rms vs run
χ² / ndf 7.402e+05 / 104
p0 562 ± 0.4918
14000
12000
10000
8000
6000
4000
2000

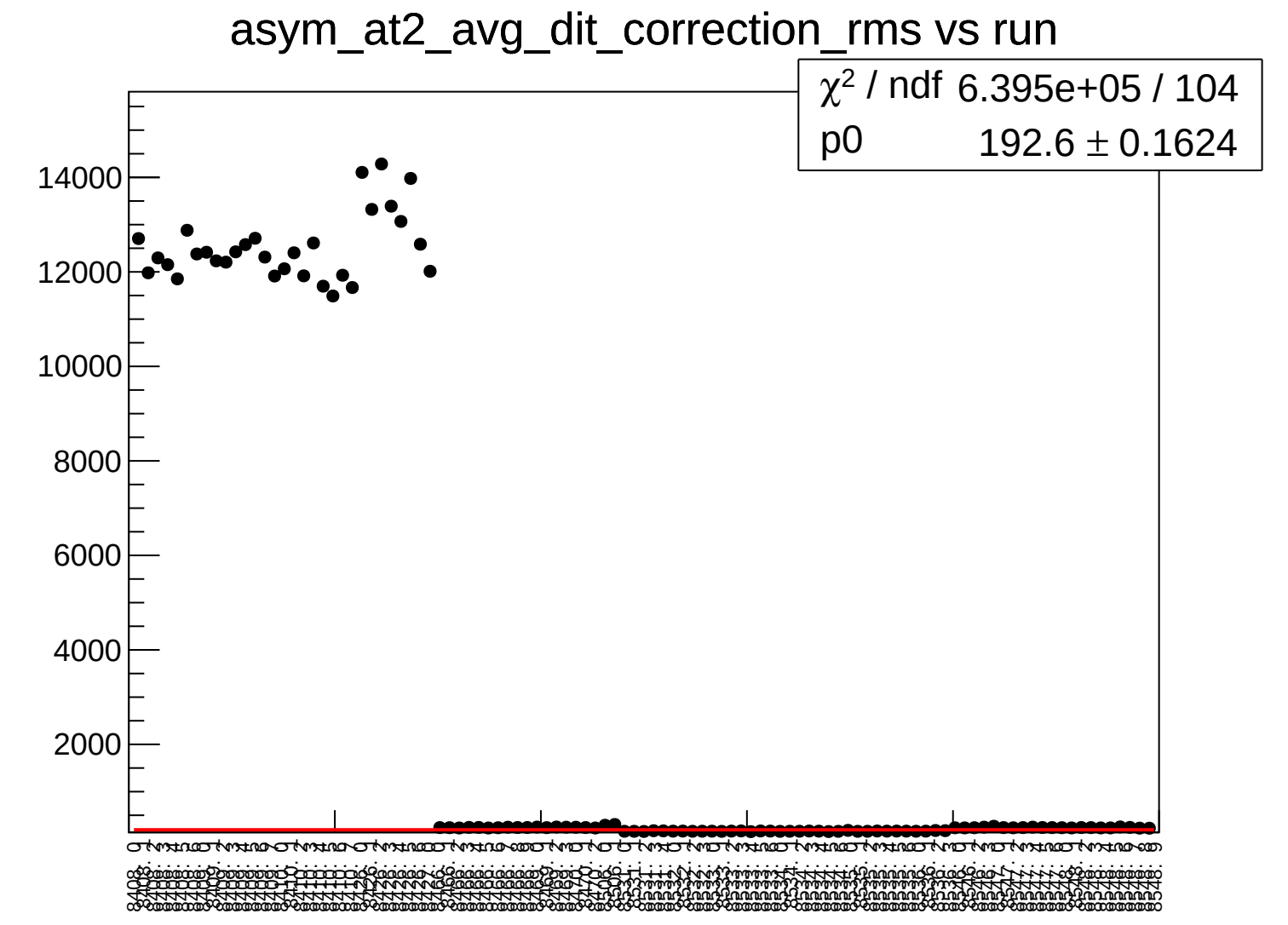

dit_asym_at2_avg_mean vs run
×10^3
χ^2 / ndf 98.18 / 104
p0 2791 ± 3325
1000
500
0
−500
−1000
pull
Entries 105
Mean 358.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

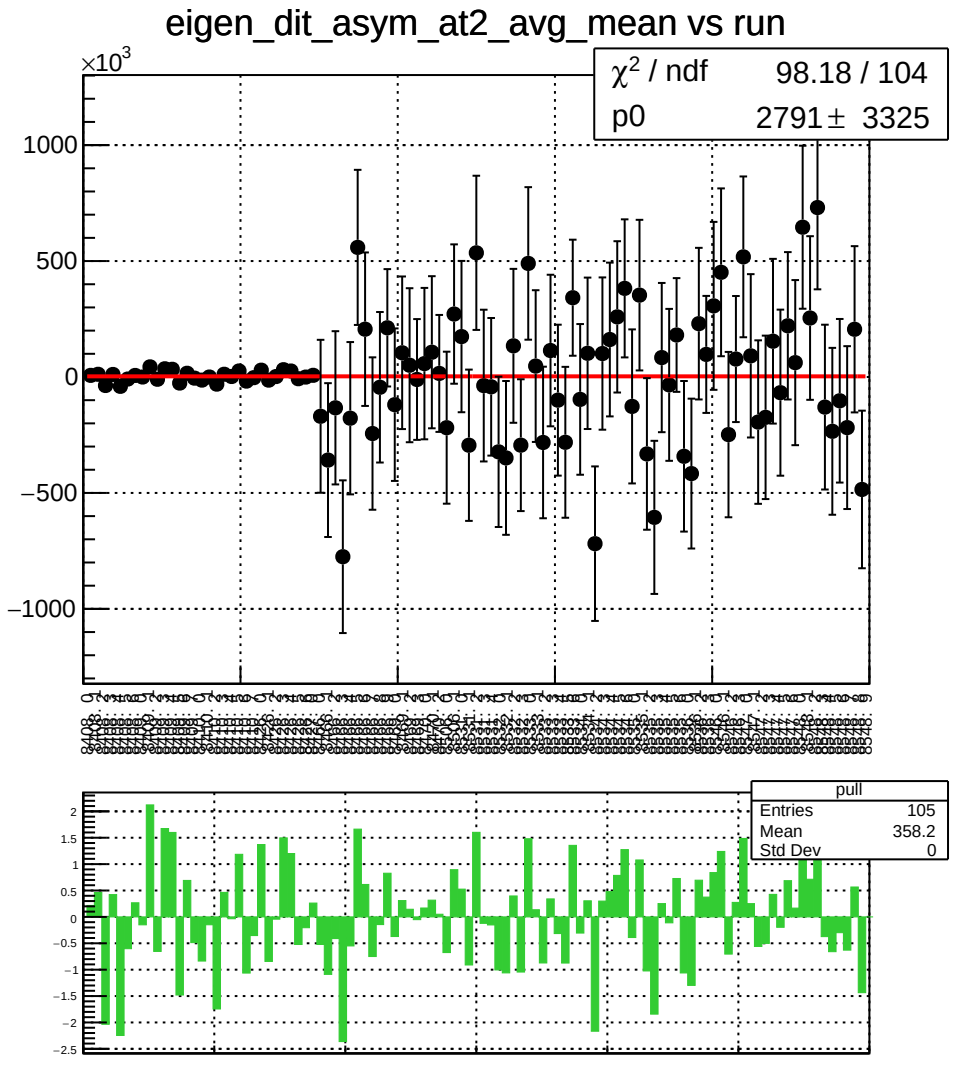

pull1D
Entries 105
Mean 0.007454
Std Dev 0.9669
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

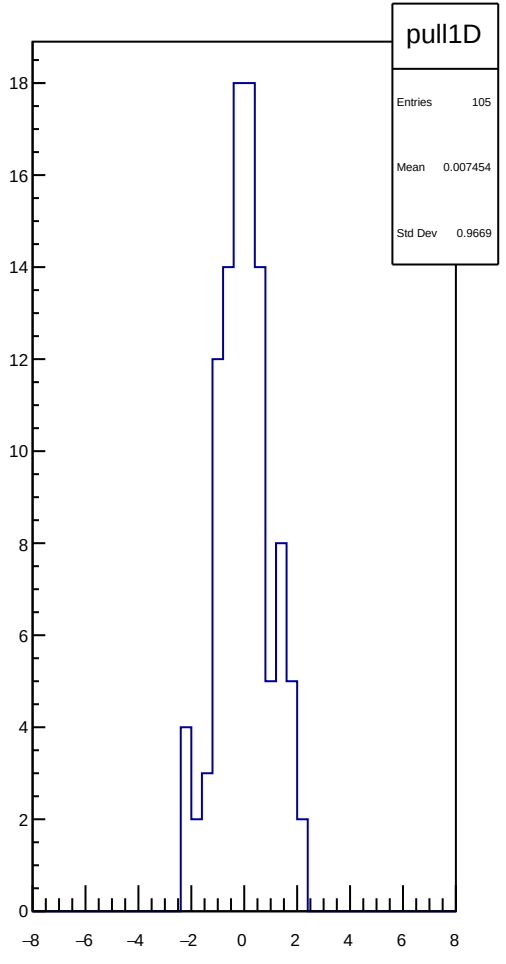

dit_asym_at2_avg_rms vs run
χ² / ndf 1.271e+06 / 104
p0 2070 ± 2.351
35000
30000
25000
20000
15000
10000
5000

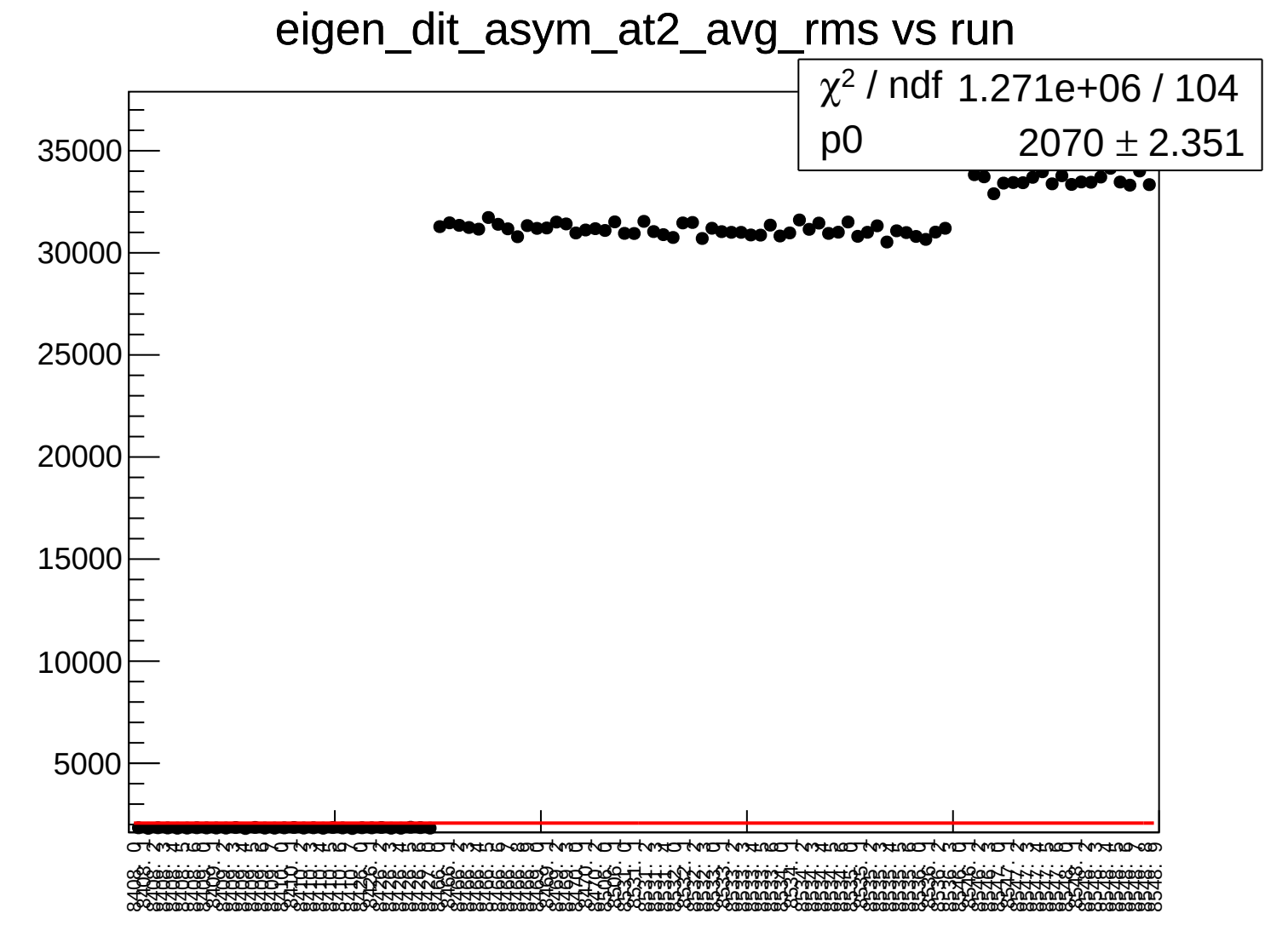

asym_at2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 94.76 / 104
p0 −260.8 ± 229.7
300
200
100
0
−100
−200
−300
−400
−500
pull
Entries 105
Mean 1.04e+04
Std Dev 0
2
1
0
−1
−2

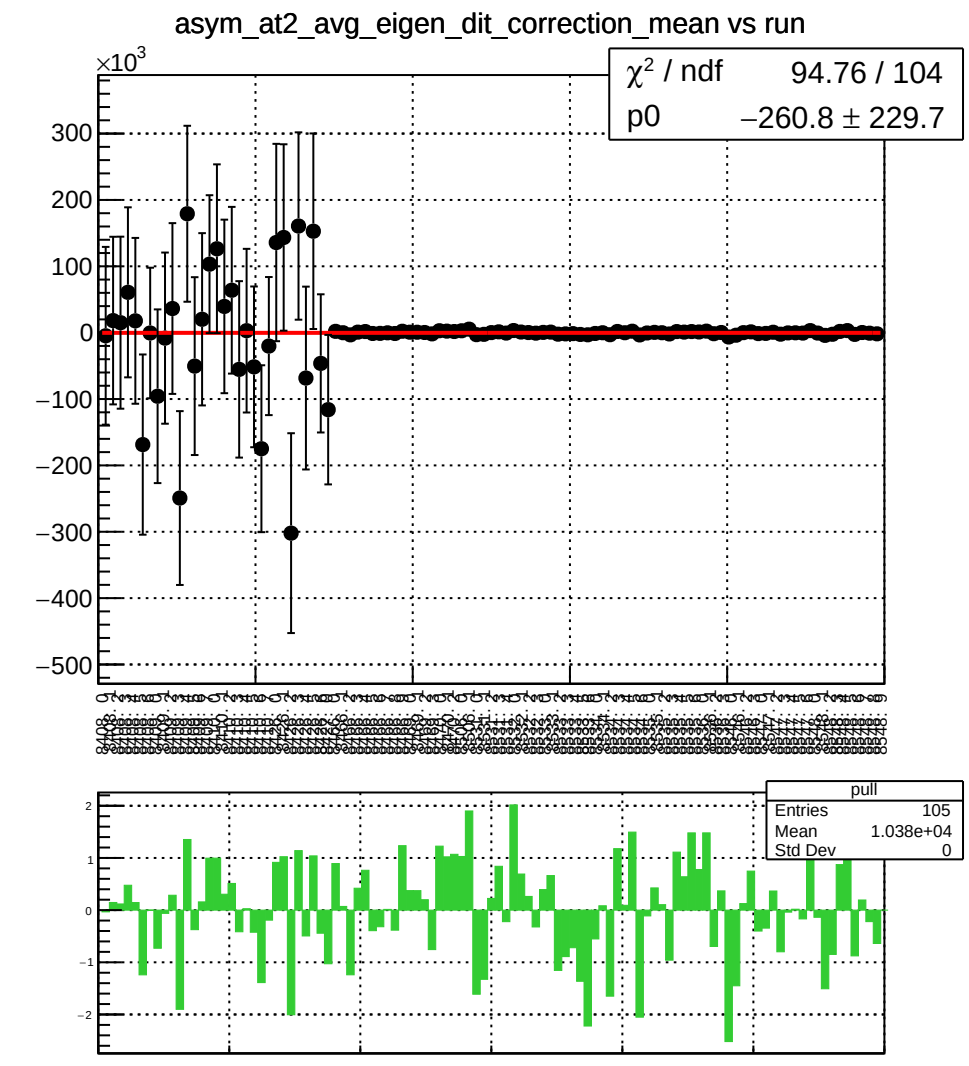

pull1D
Entries 105
Mean −0.0001286
Std Dev 0.95
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

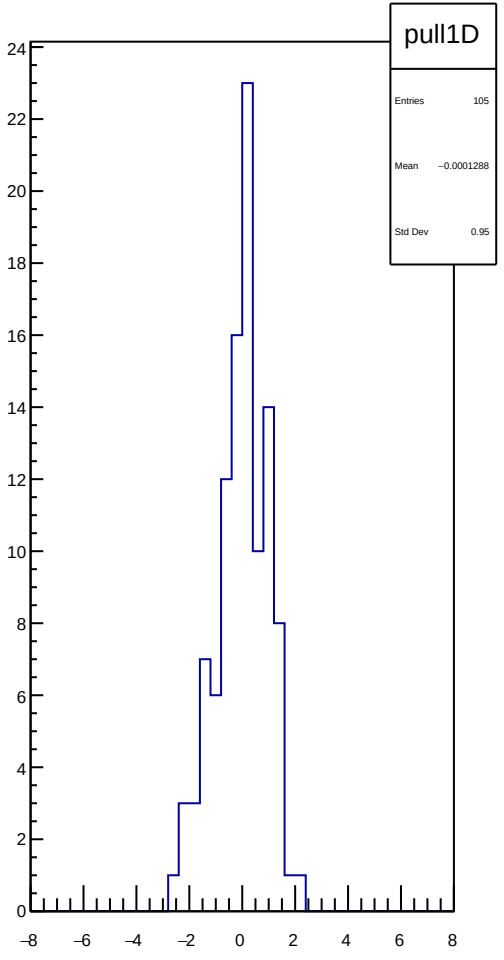

asym_at2_avg_dit_correction_rms vs run
χ² / ndf 6.395e+05 / 104
p0 192.6 ± 0.1624
14000
12000
10000
8000
6000
4000
2000

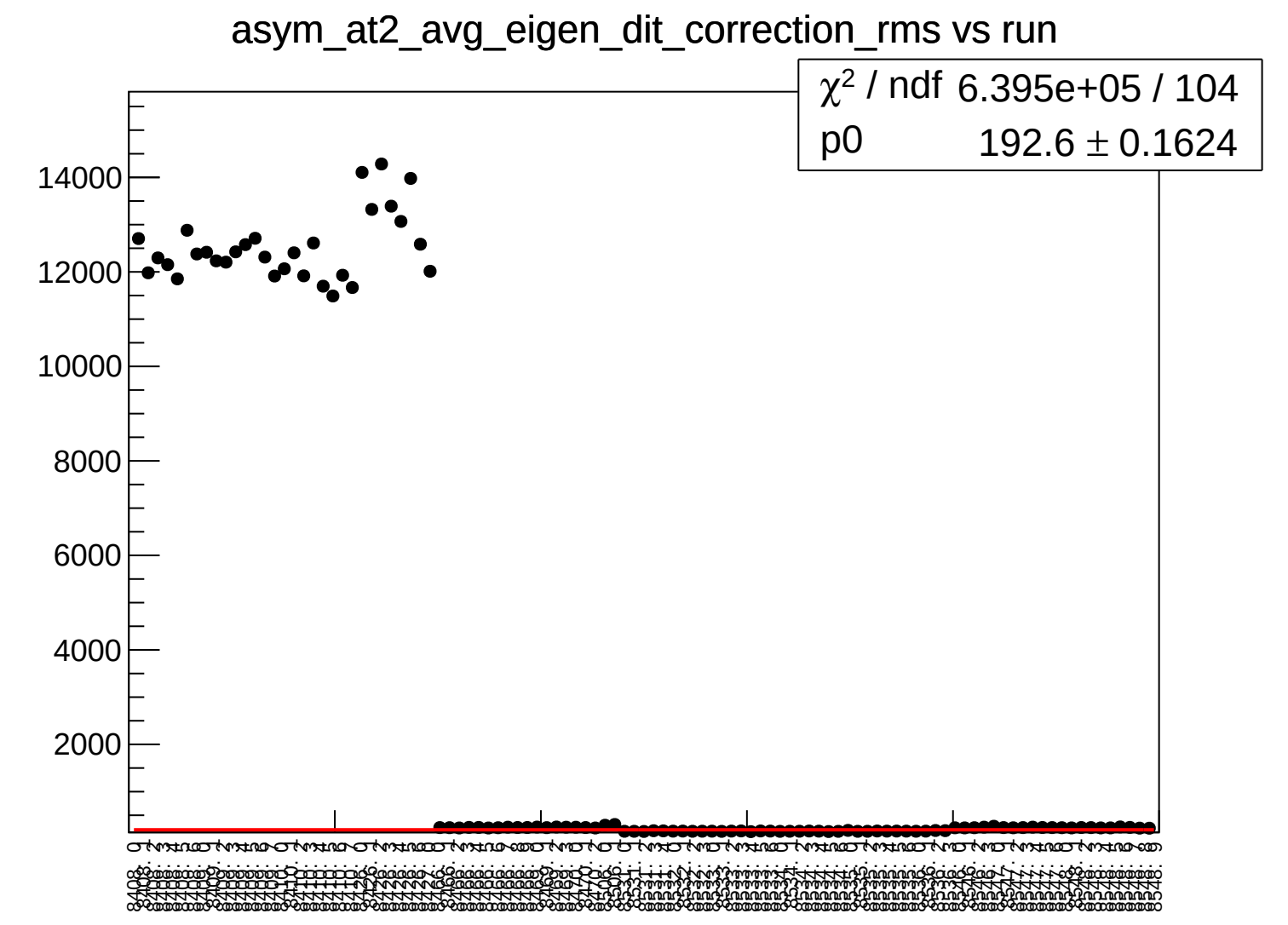

eigen_dit_asym_at2_avg_mean vs run
×10^3
χ^2 / ndf 98.18 / 104
p0 2791 ± 3325
1000
500
0
−500
−1000
pull
Entries 105
Mean 358.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

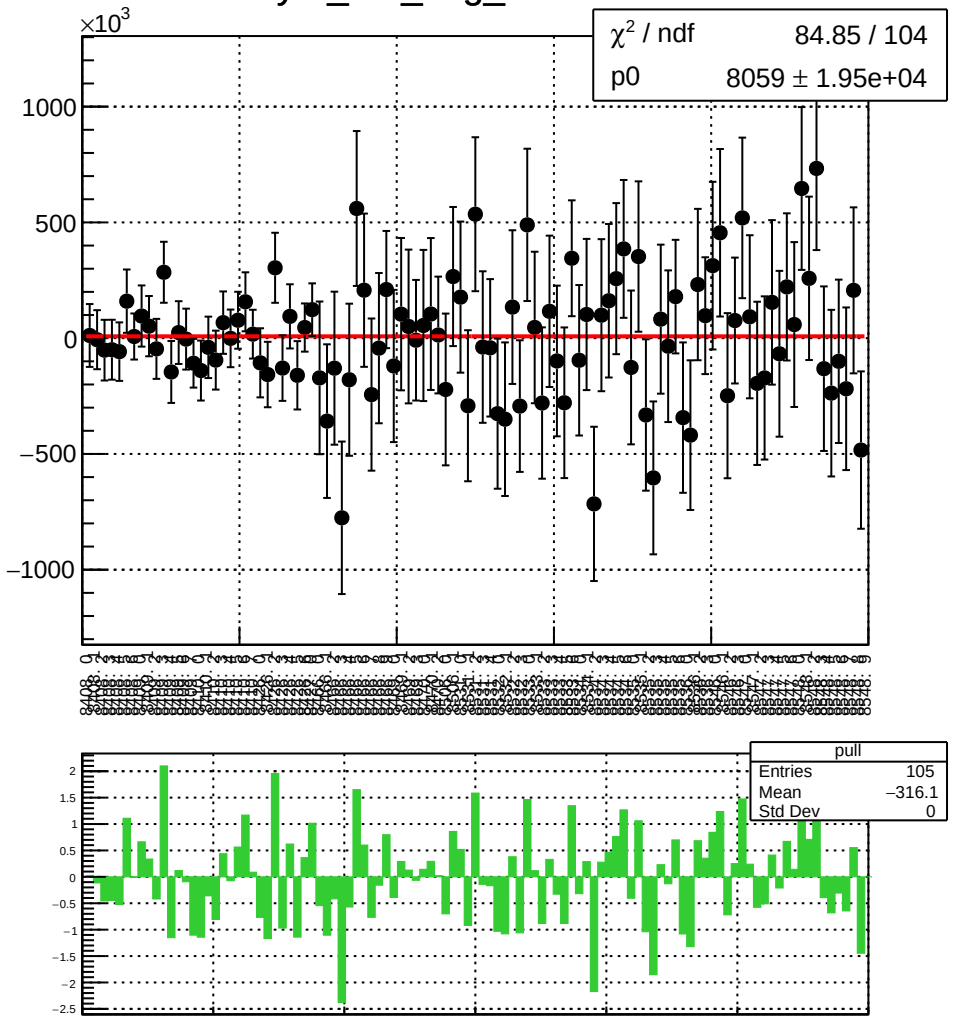

pull1D
Entries 105
Mean 0.007454
Std Dev 0.9669
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

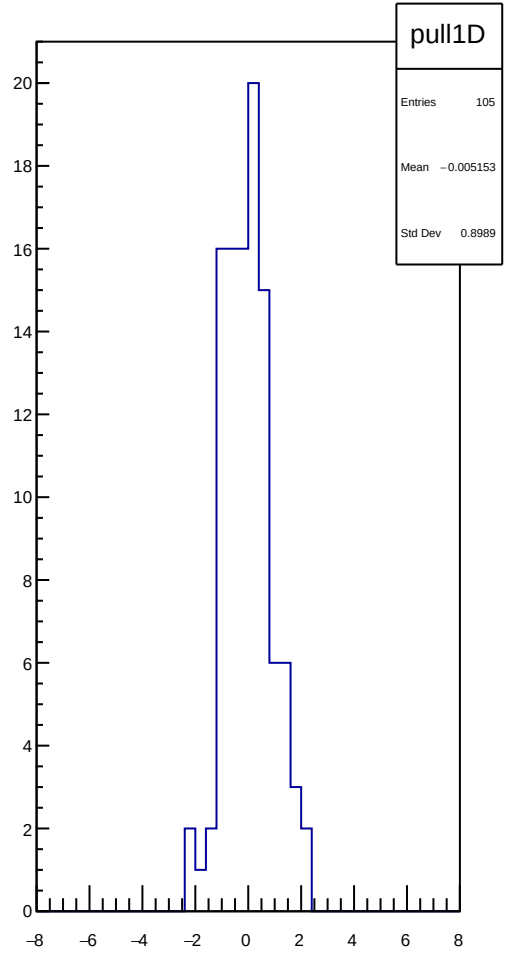

eigen_dit_asym_at2_avg_rms vs run
χ² / ndf 1.271e+06 / 104
p0 2070 ± 2.351
35000
30000
25000
20000
15000
10000
5000

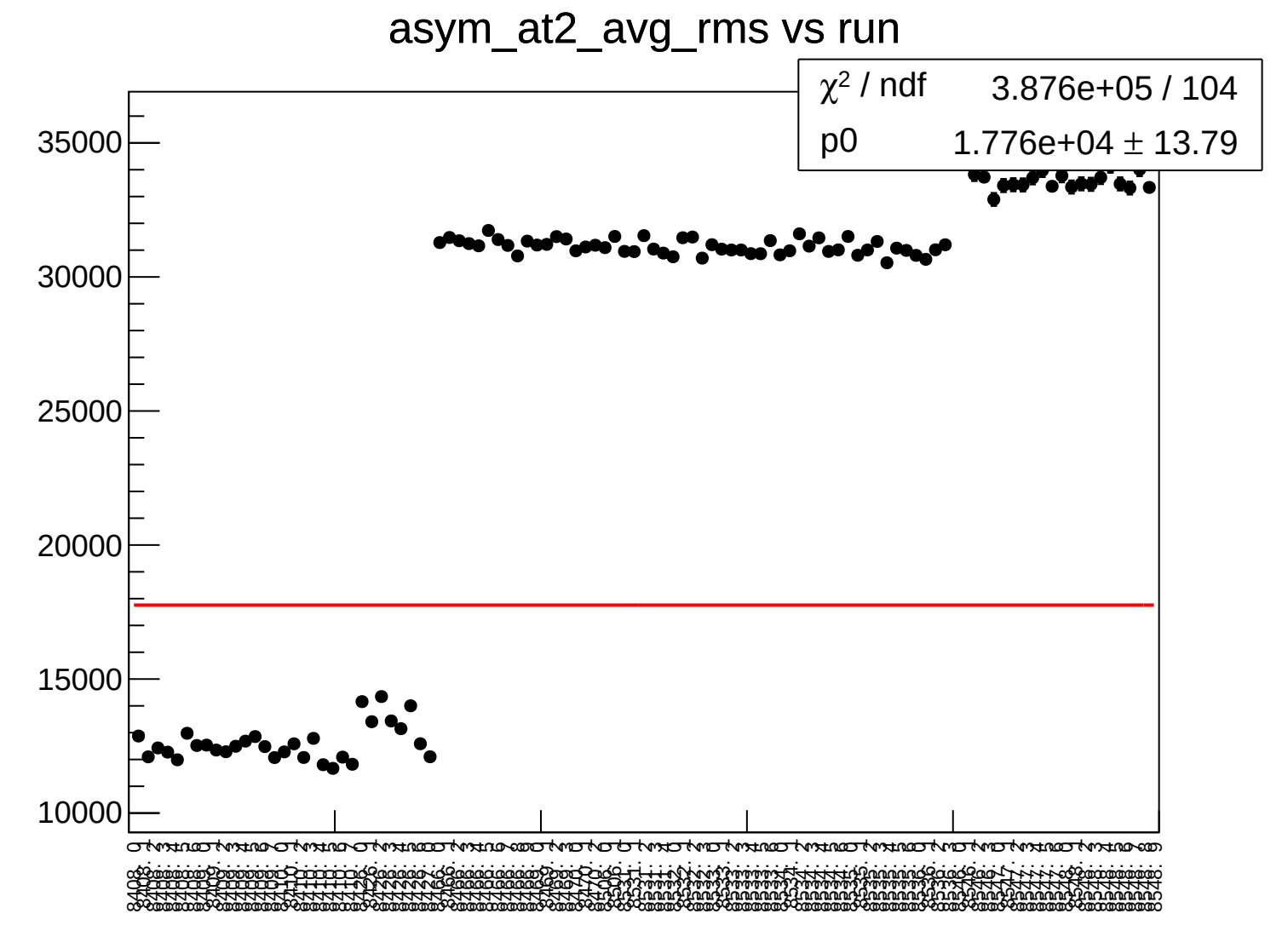

asym_at2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 94.76 / 104
p0 −260.8 ± 229.7
300
200
100
0
−100
−200
−300
−400
−500
pull
Entries 105
Mean 1.038e+04
Std Dev 0
2
1
0
−1
−2

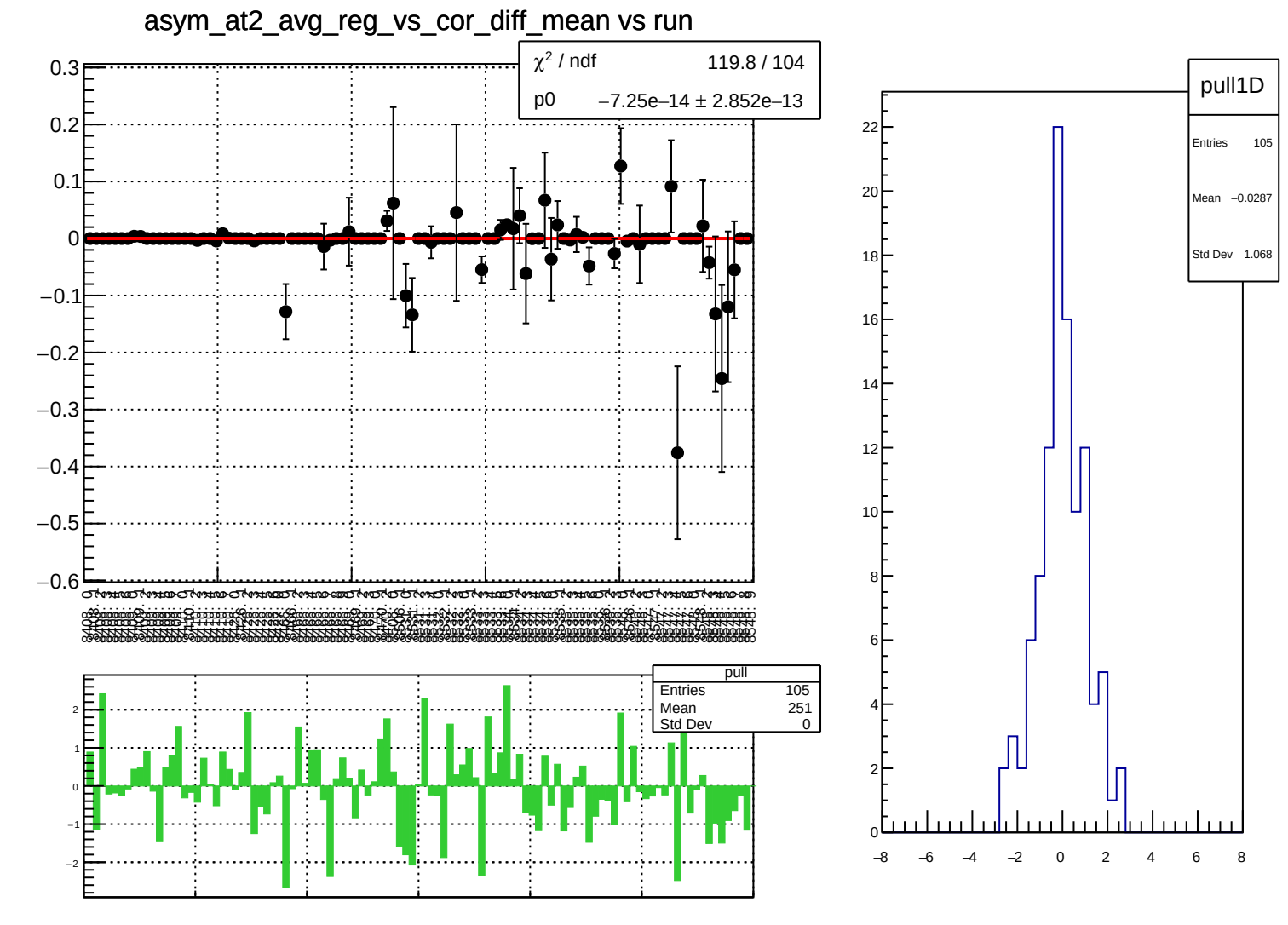

pull1D
Entries 105
Mean −0.0001288
Std Dev 0.95
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

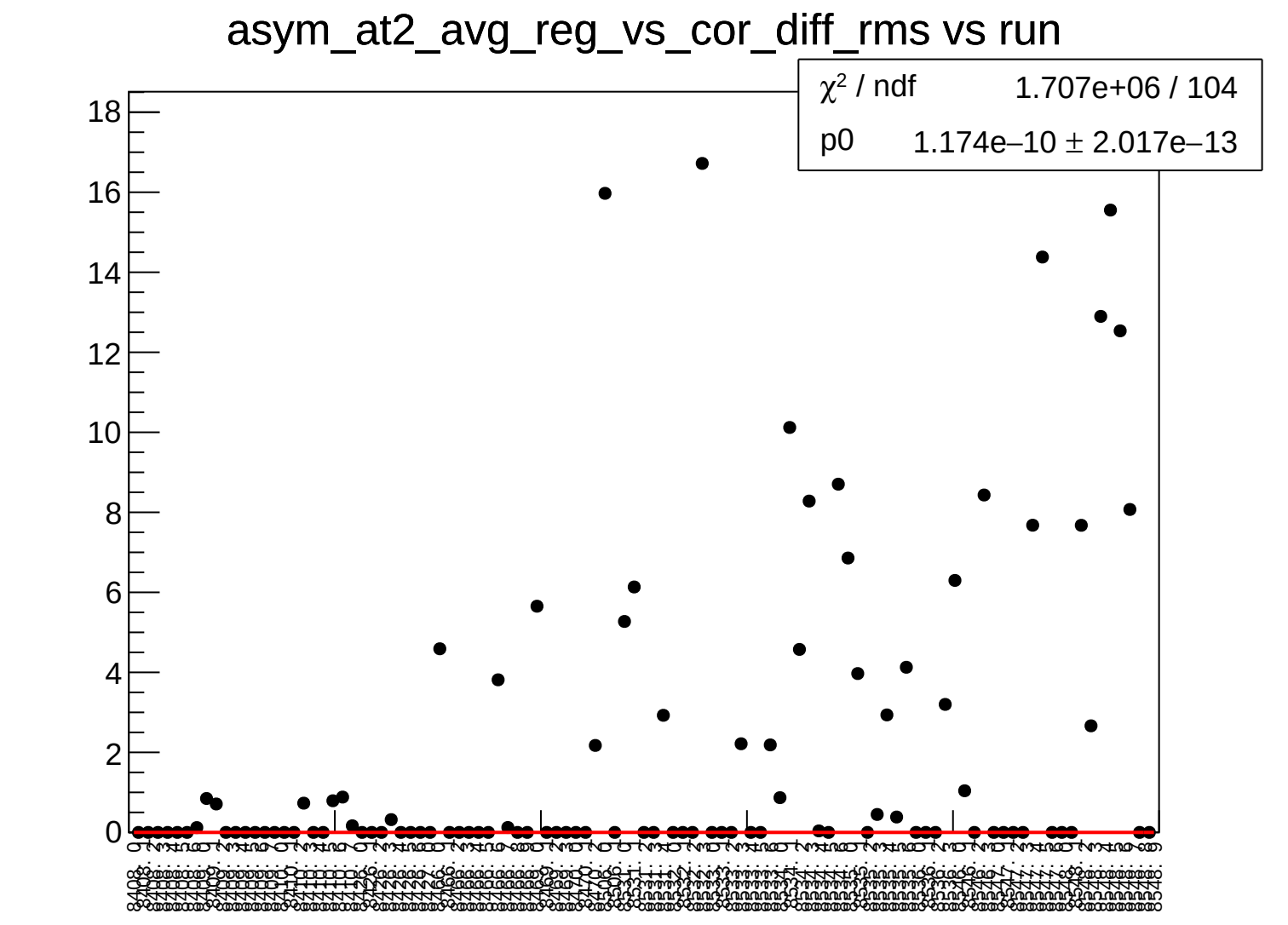

asym_at2_avg_eigen_dit_correction_rms vs run
χ² / ndf 6.395e+05 / 104
p0 192.6 ± 0.1624
14000
12000
10000
8000
6000
4000
2000

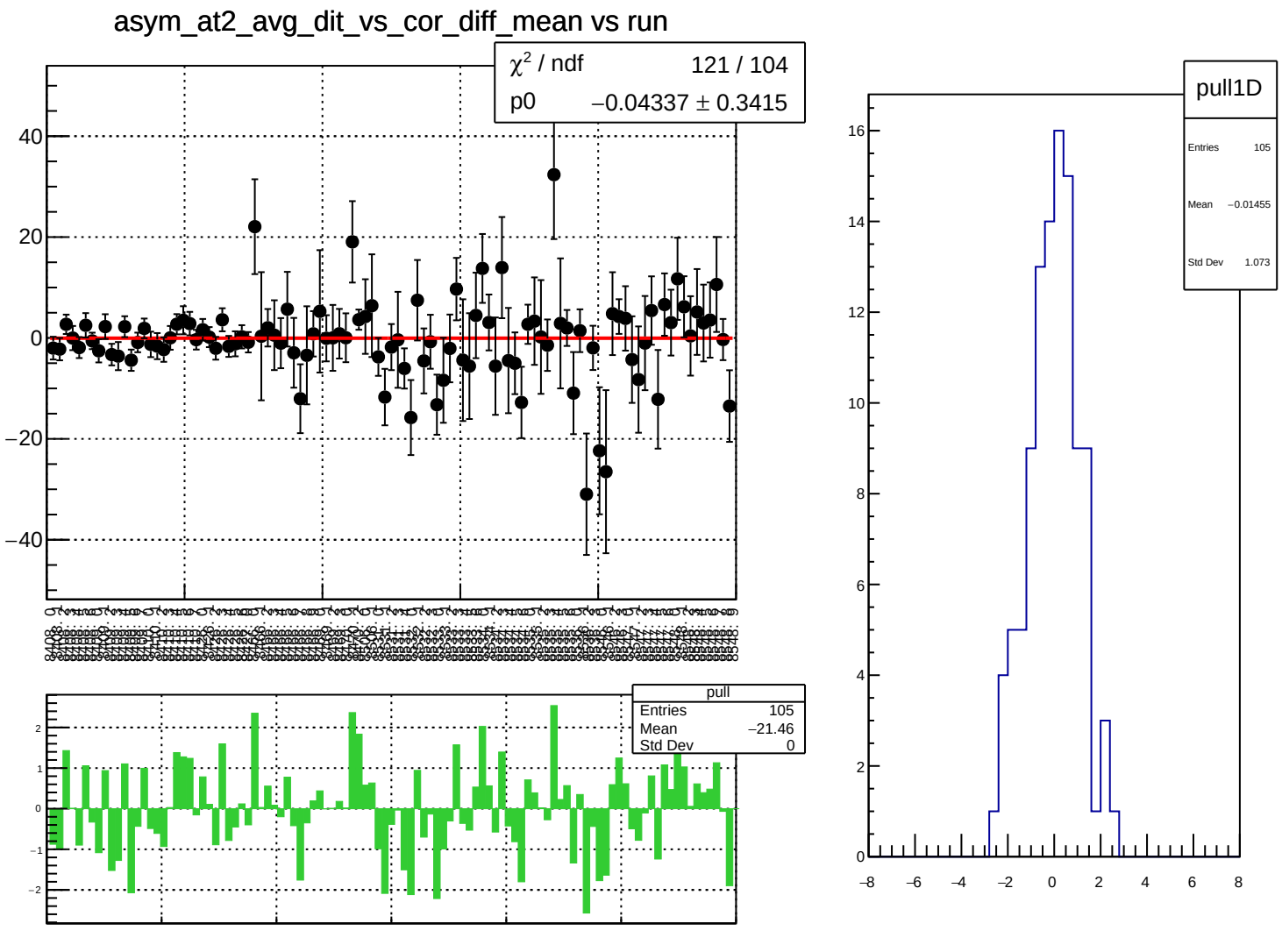

asym_at2_avg_mean vs run
×10^3
χ² / ndf 84.85 / 104
p0 8059 ± 1.95e+04
1000
500
0
−500
−1000
pull
Entries 105
Mean −316.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

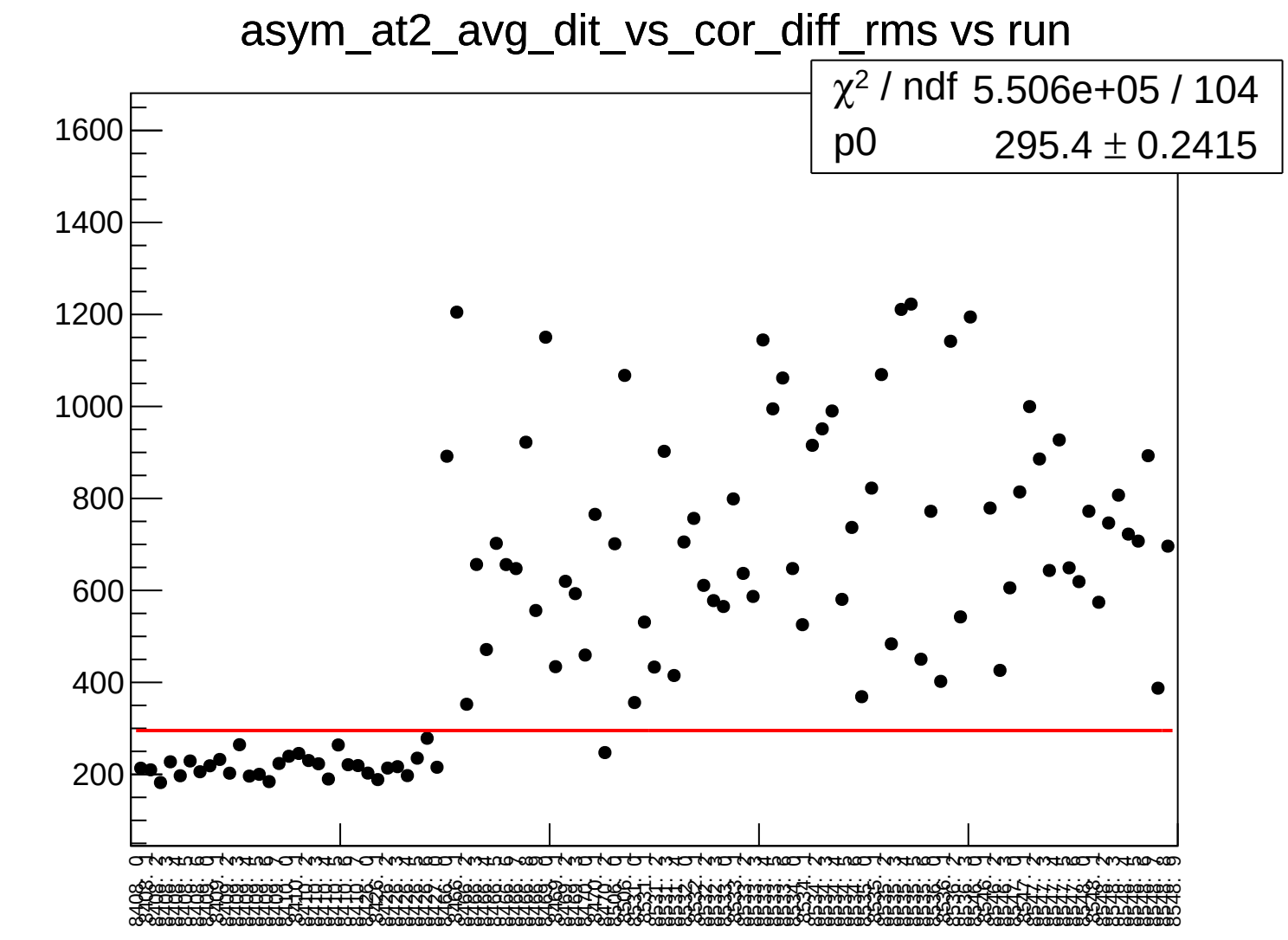

pull1D
Entries 105
Mean −0.005153
Std Dev 0.8989
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

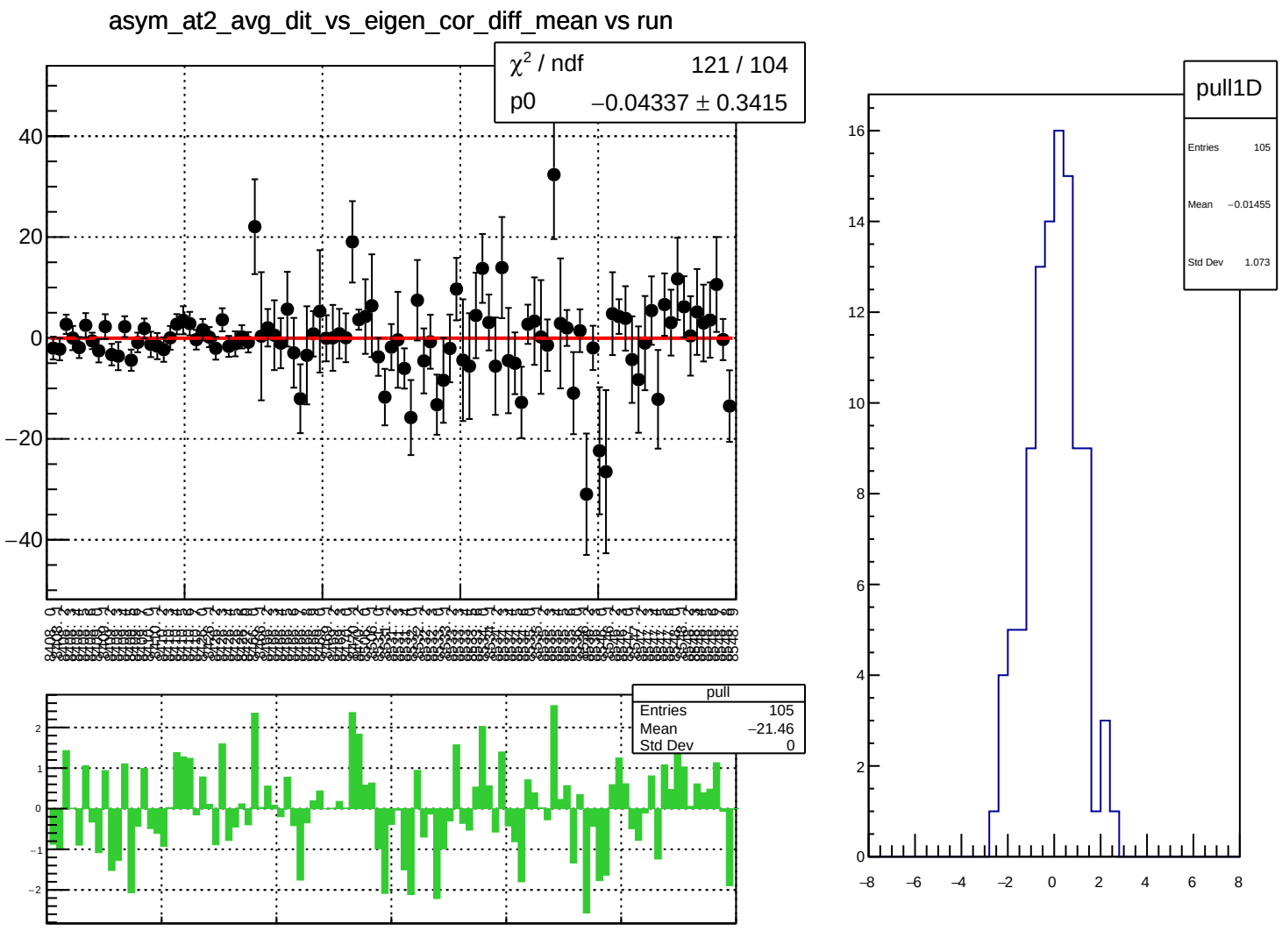

asym_at2_avg_rms vs run
χ² / ndf 3.876e+05 / 104
p0 1.776e+04 ± 13.79
35000
30000
25000
20000
15000
10000

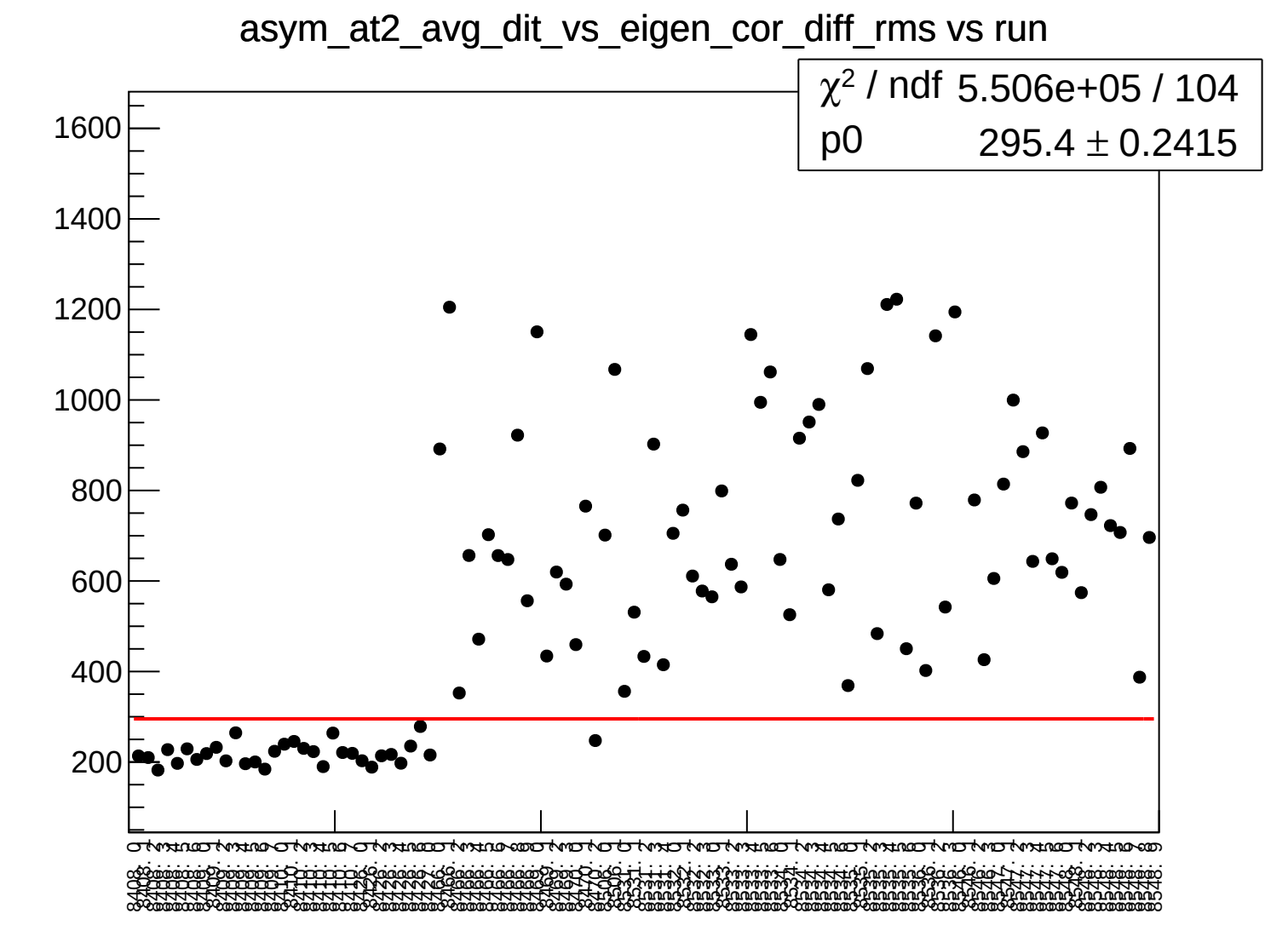

asym_at2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 119.8 / 104
p0 −7.25e−14 ± 2.852e−13
pull
Entries 105
Mean 251
Std Dev 0
pull1D
Entries 105
Mean −0.0287
Std Dev 1.068

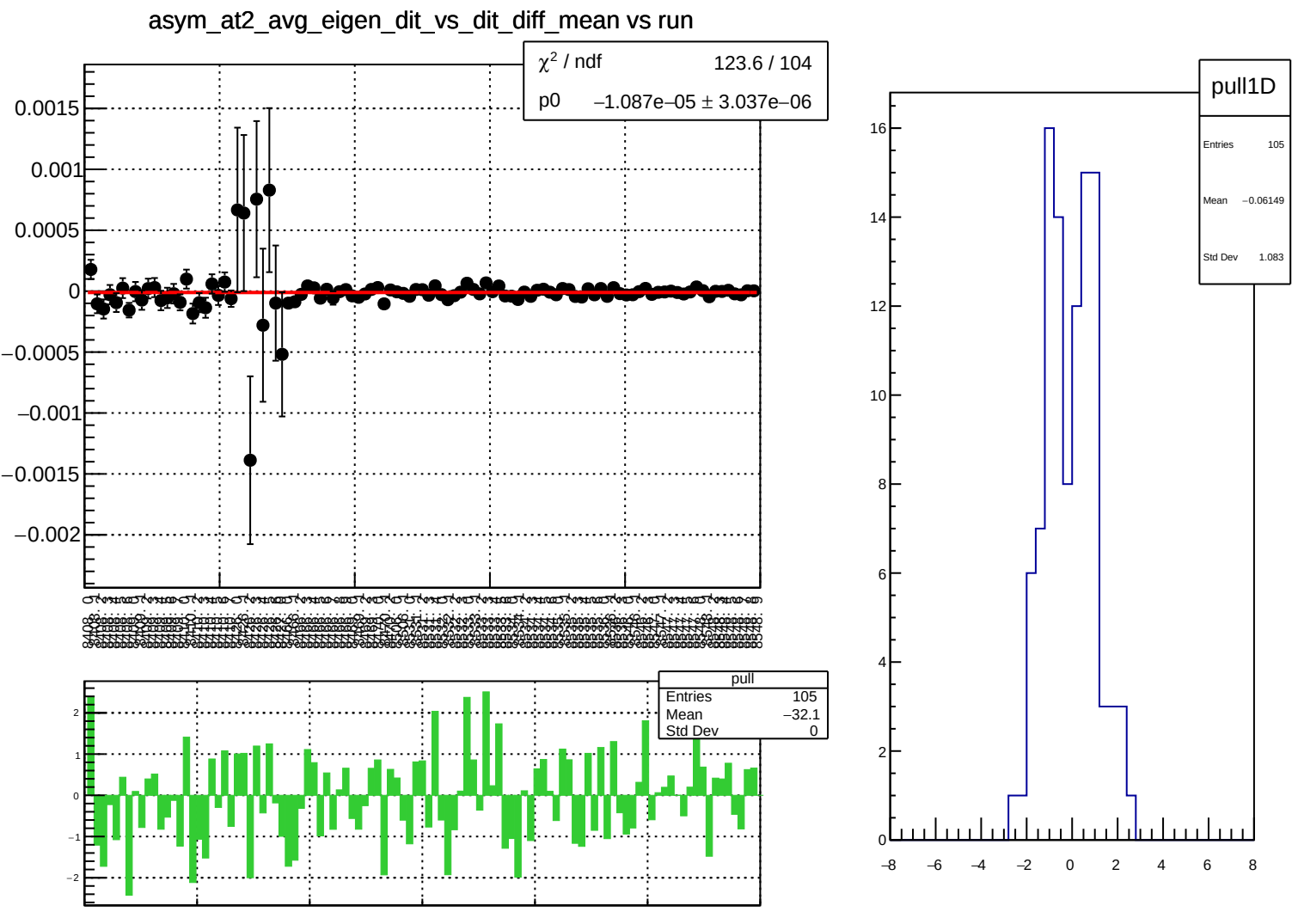

asym_at2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.707e+06 / 104
p0 1.174e−10 ± 2.017e−13
18
16
14
12
10
8
6
4
2
0

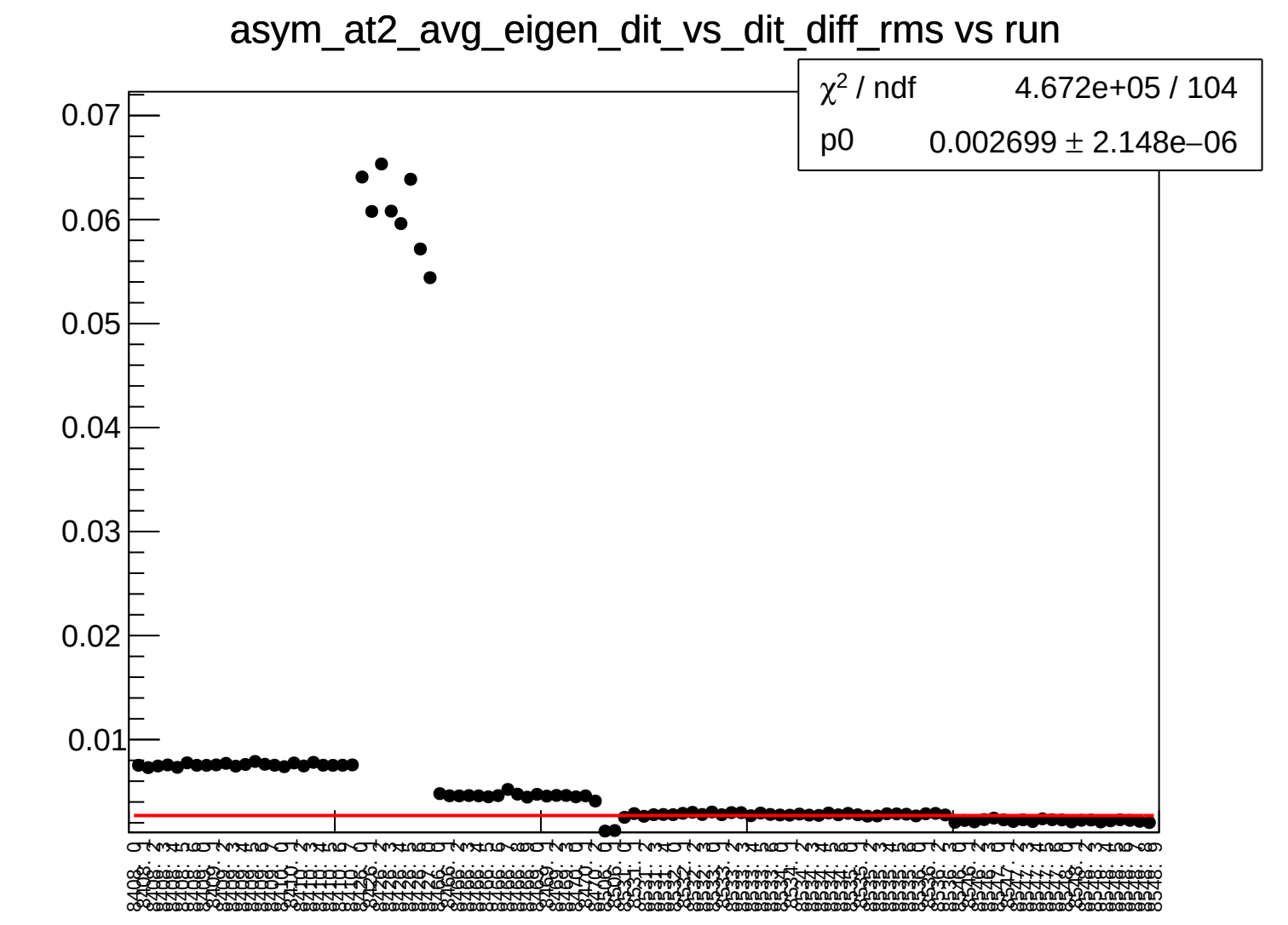

asym_at2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 121 / 104
p0 −0.04337 ± 0.3415
40
20
0
−20
−40
pull
Entries 105
Mean −21.46
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.01455
Std Dev 1.073
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

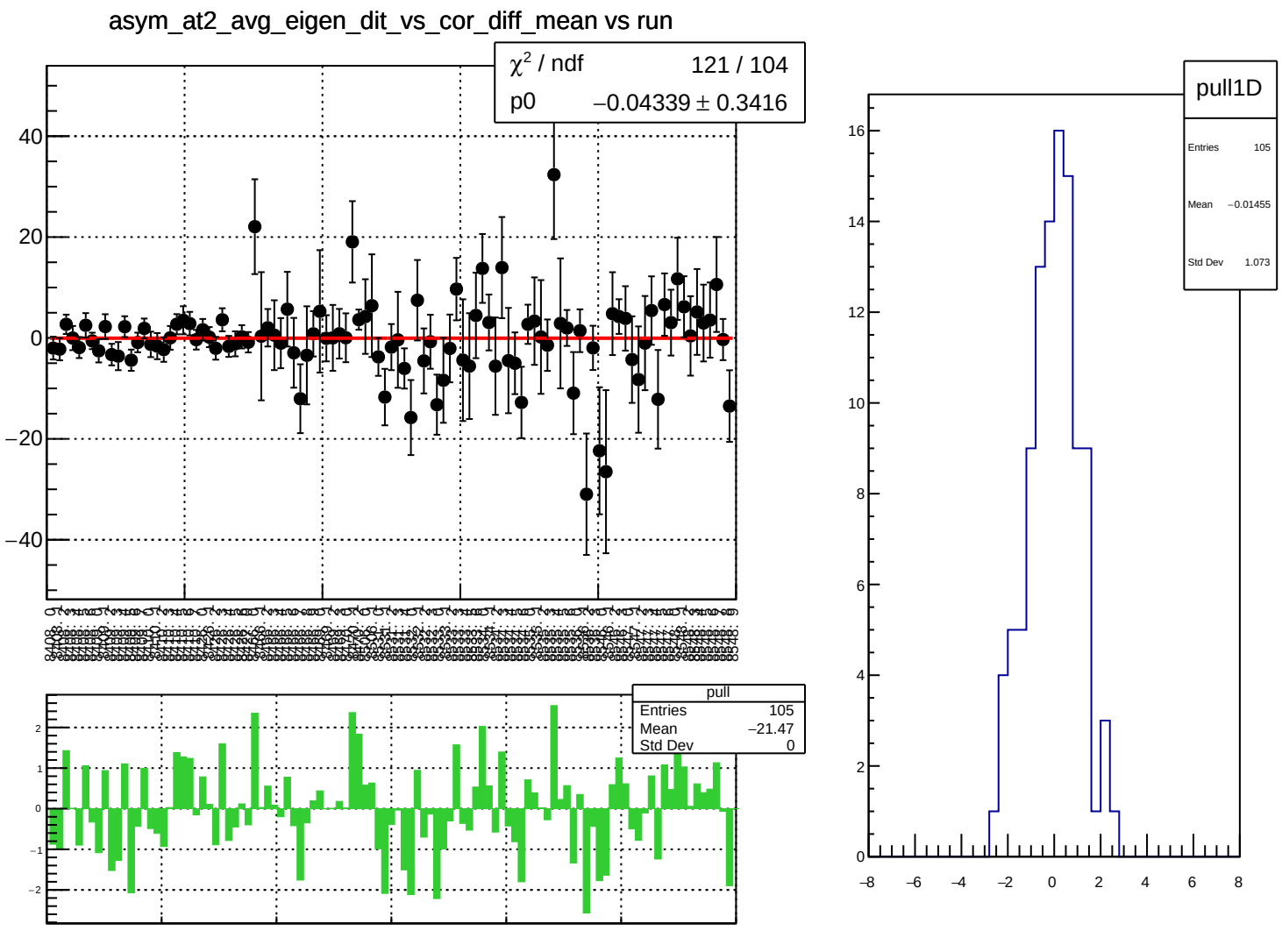

asym_at2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.506e+05 / 104
p0 295.4 ± 0.2415
1600
1400
1200
1000
800
600
400
200

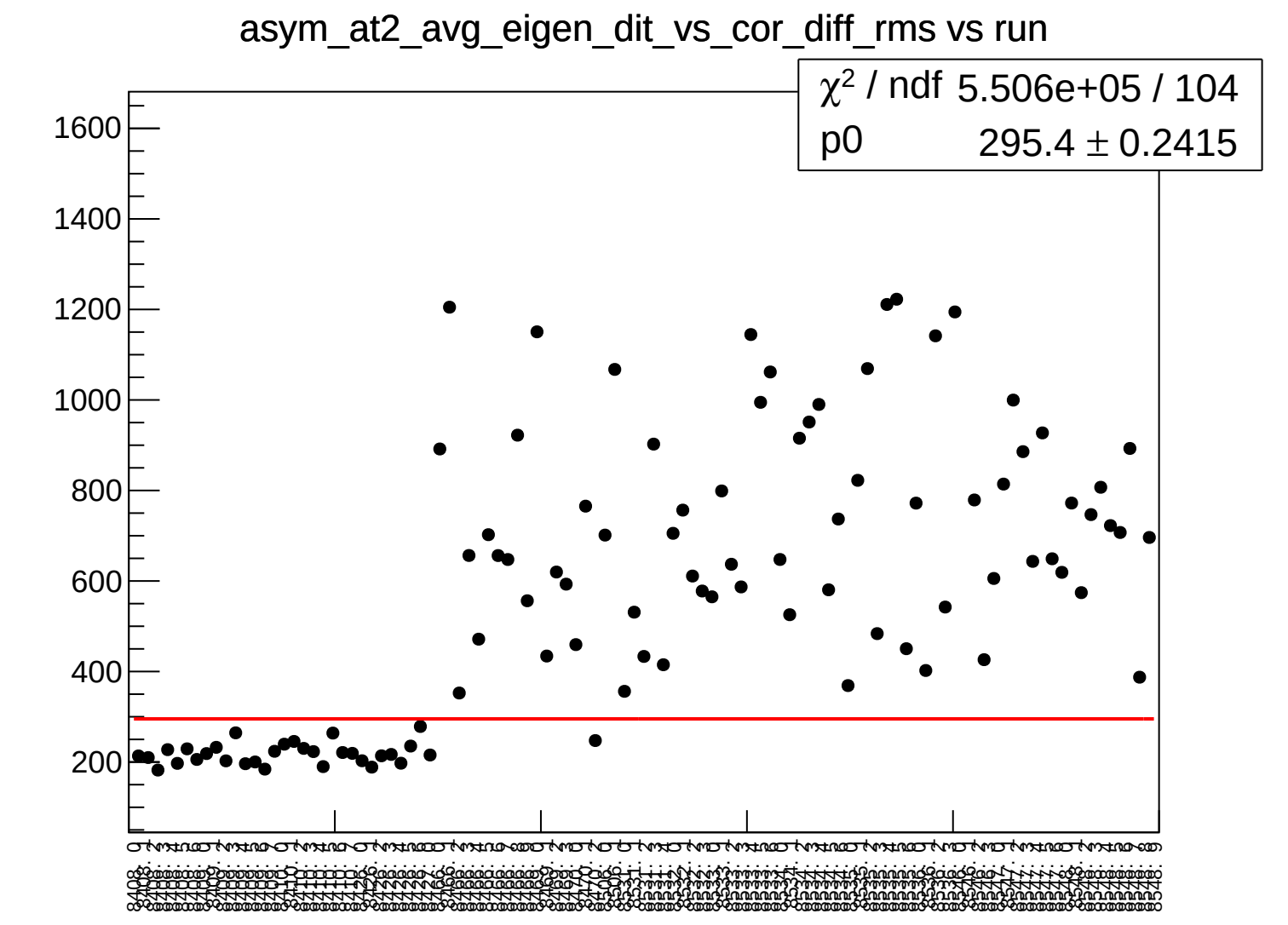

asym_at2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 121 / 104
p0 −0.04337 ± 0.3415
40
20
0
−20
−40
pull
Entries 105
Mean −21.46
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.01455
Std Dev 1.073
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

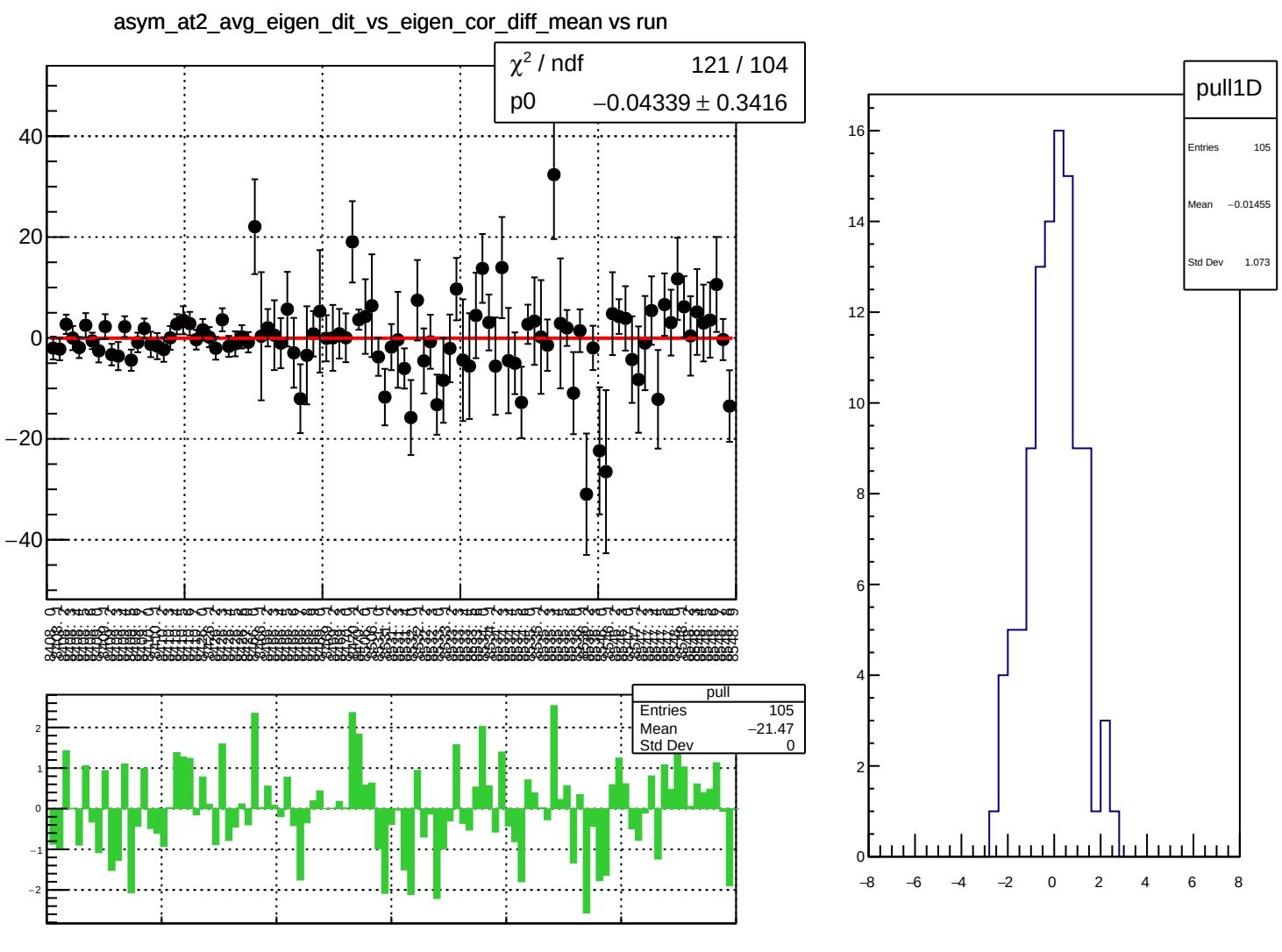

asym_at2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.506e+05 / 104
p0 295.4 ± 0.2415
1600
1400
1200
1000
800
600
400
200

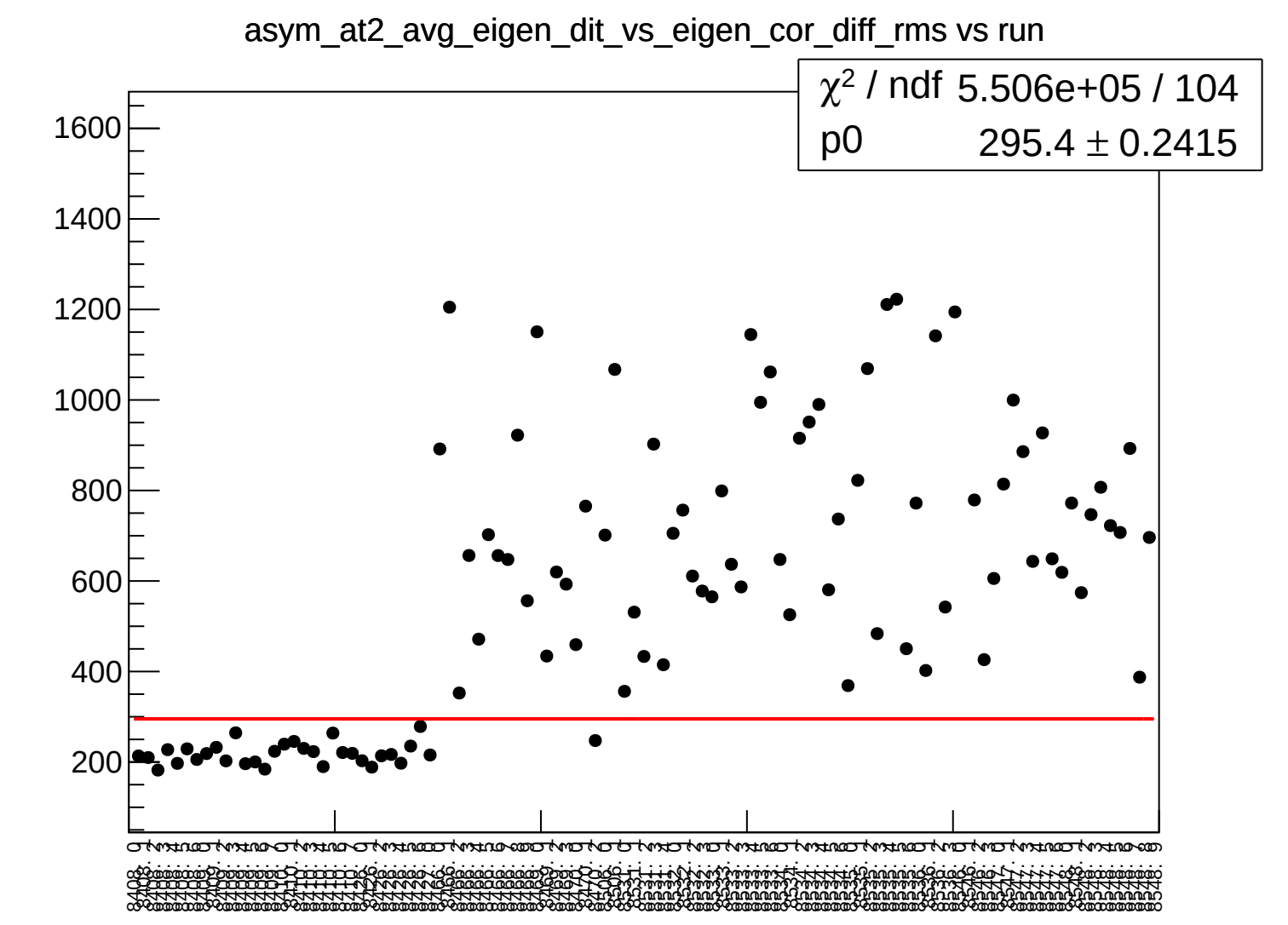

asym_at2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 123.6 / 104
p0 −1.087e−05 ± 3.037e−06
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 105
Mean −32.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.06149
Std Dev 1.083
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

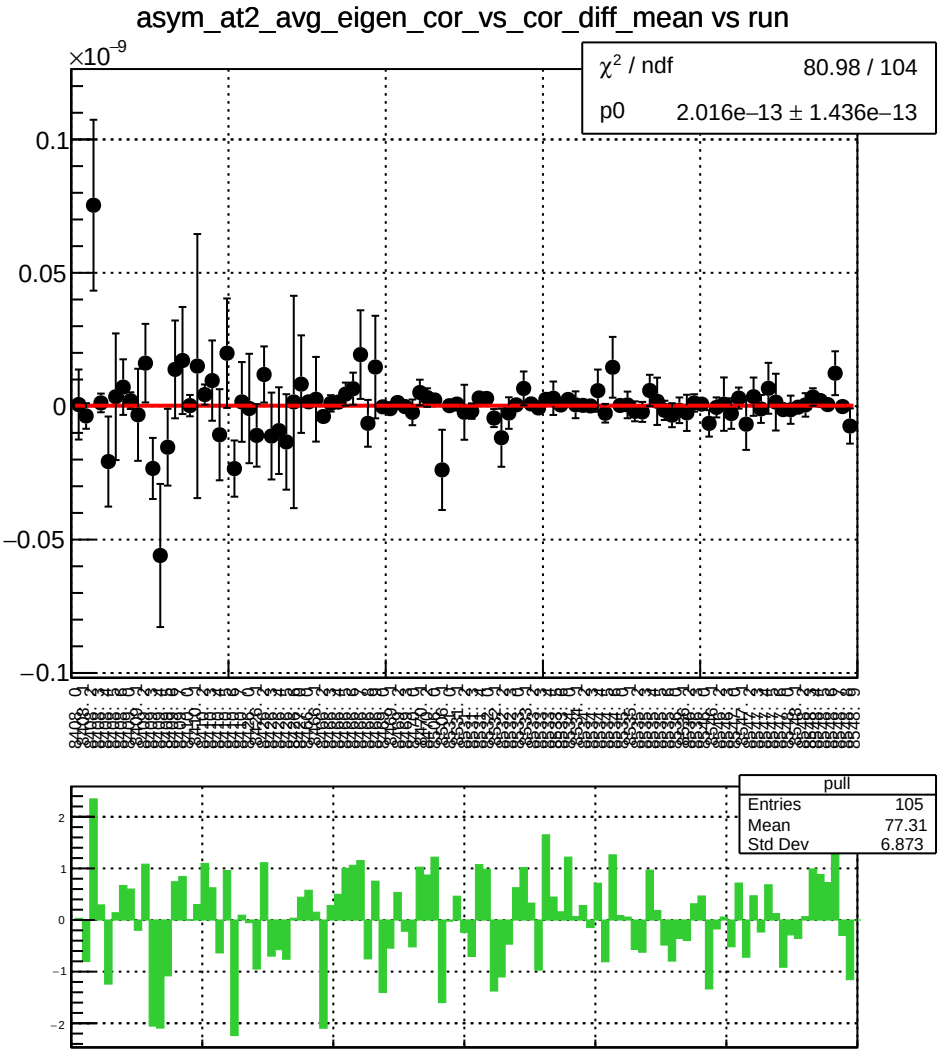

asym_at2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.672e+05 / 104
p0 0.002699 ± 2.148e−06
0.07
0.06
0.05
0.04
0.03
0.02
0.01

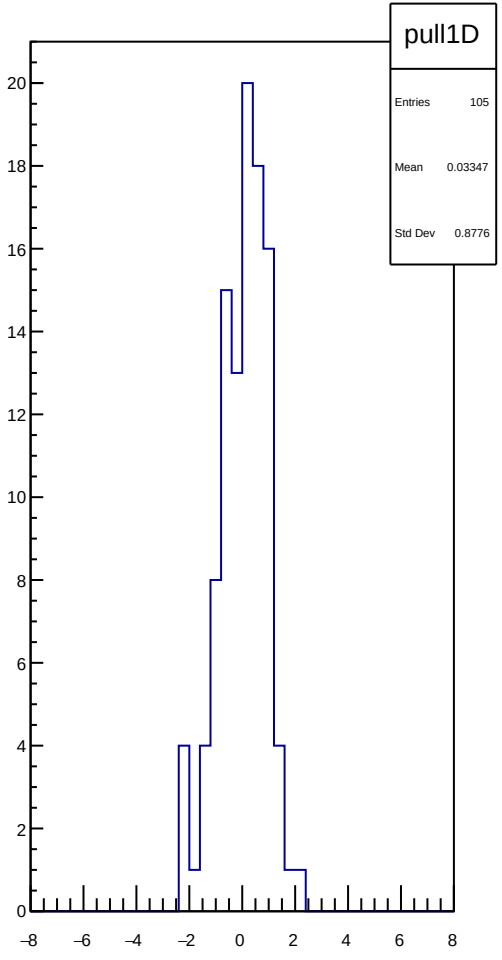

asym_at2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 121 / 104
p0 −0.04339 ± 0.3416
40
20
0
−20
−40
pull
Entries 105
Mean −21.47
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.01455
Std Dev 1.073
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

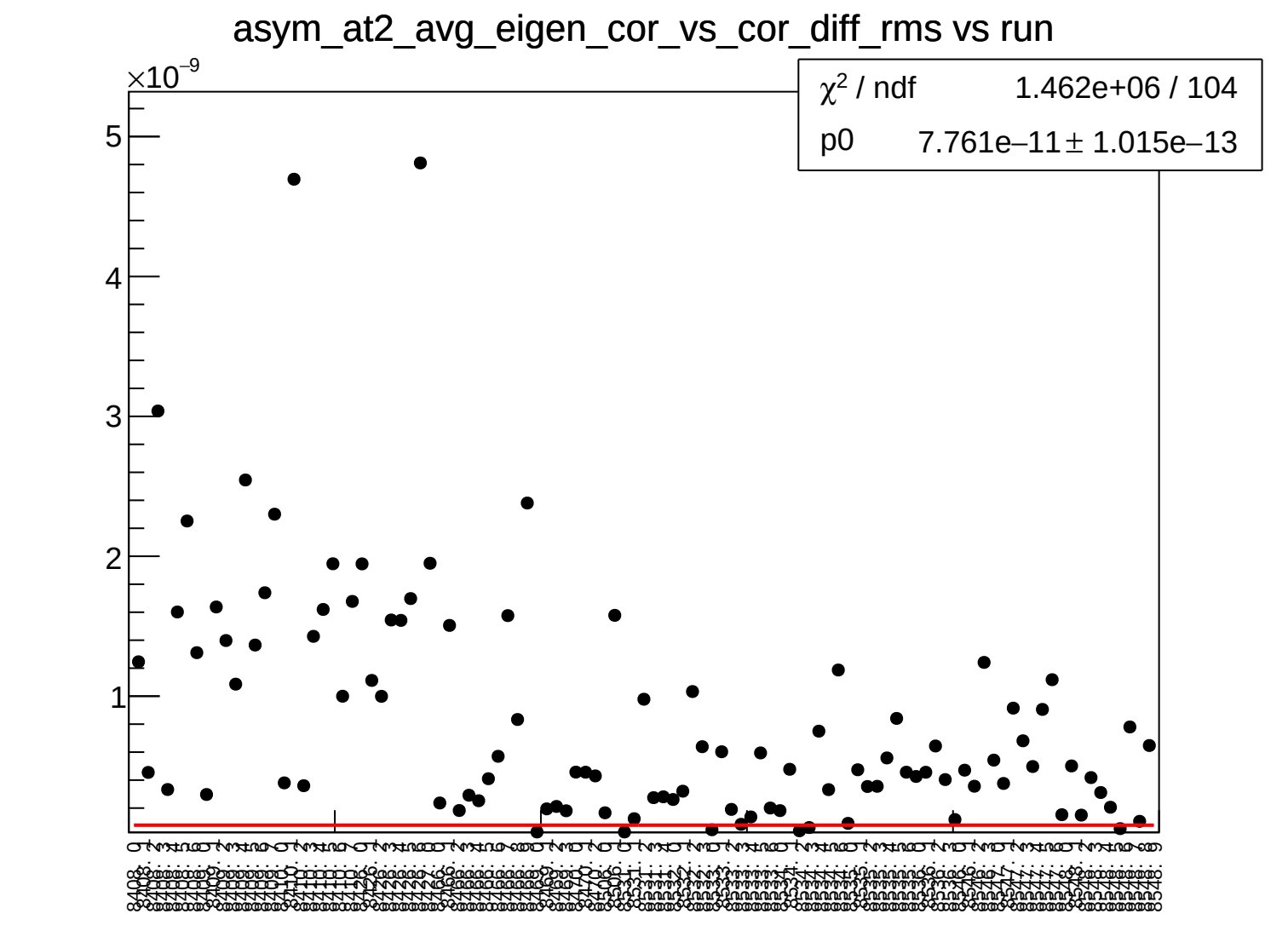

asym_at2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.506e+05 / 104
p0 295.4 ± 0.2415
1600
1400
1200
1000
800
600
400
200

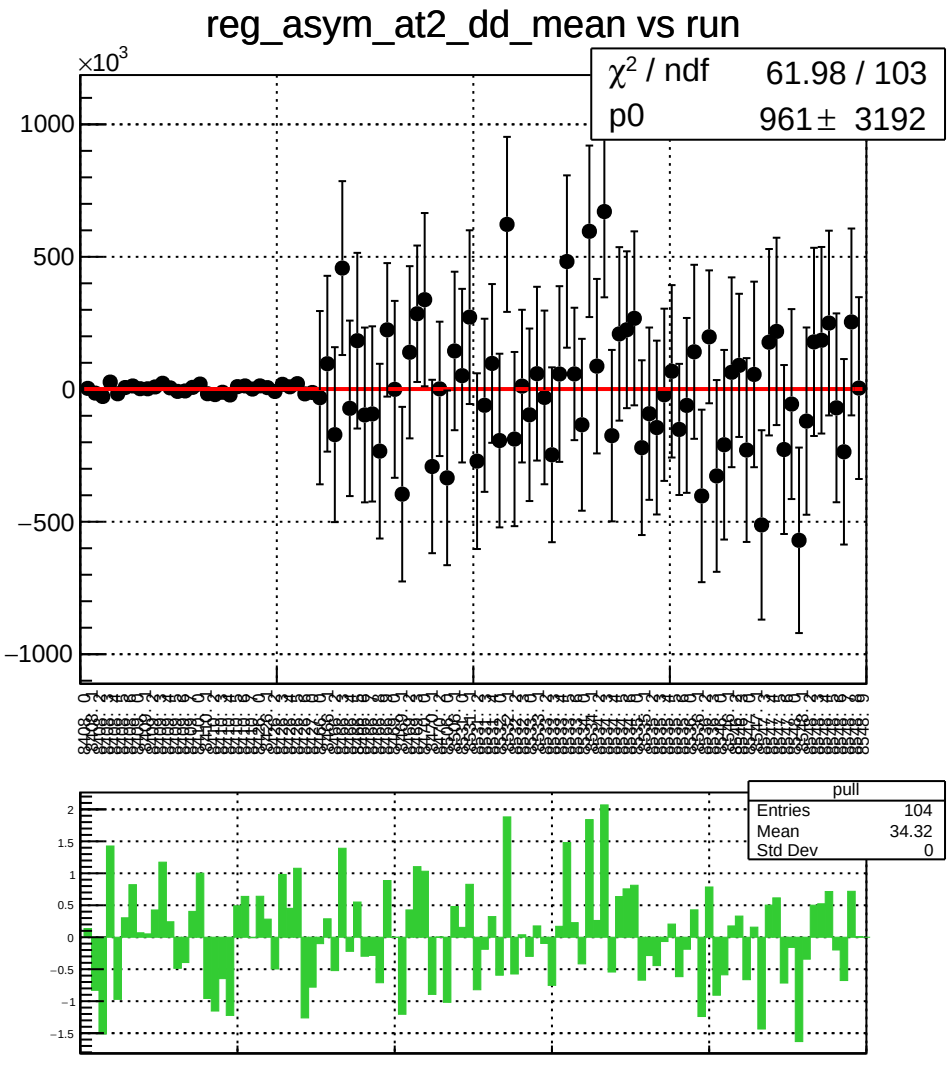

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 121 / 104
p0 −0.04339 ± 0.3416
40
20
0
−20
−40
pull
Entries 105
Mean −21.47
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.01455
Std Dev 1.073
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

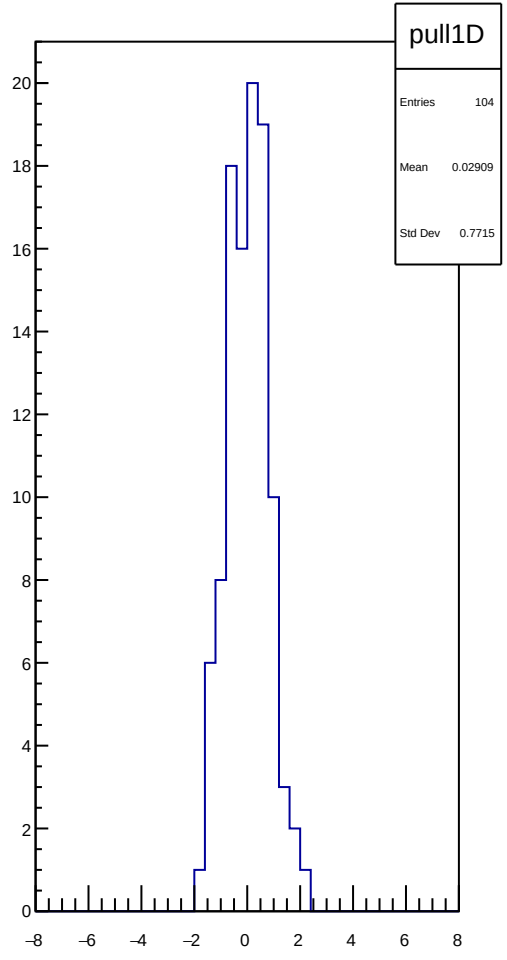

asym_at2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.506e+05 / 104
p0 295.4 ± 0.2415
1600
1400
1200
1000
800
600
400
200

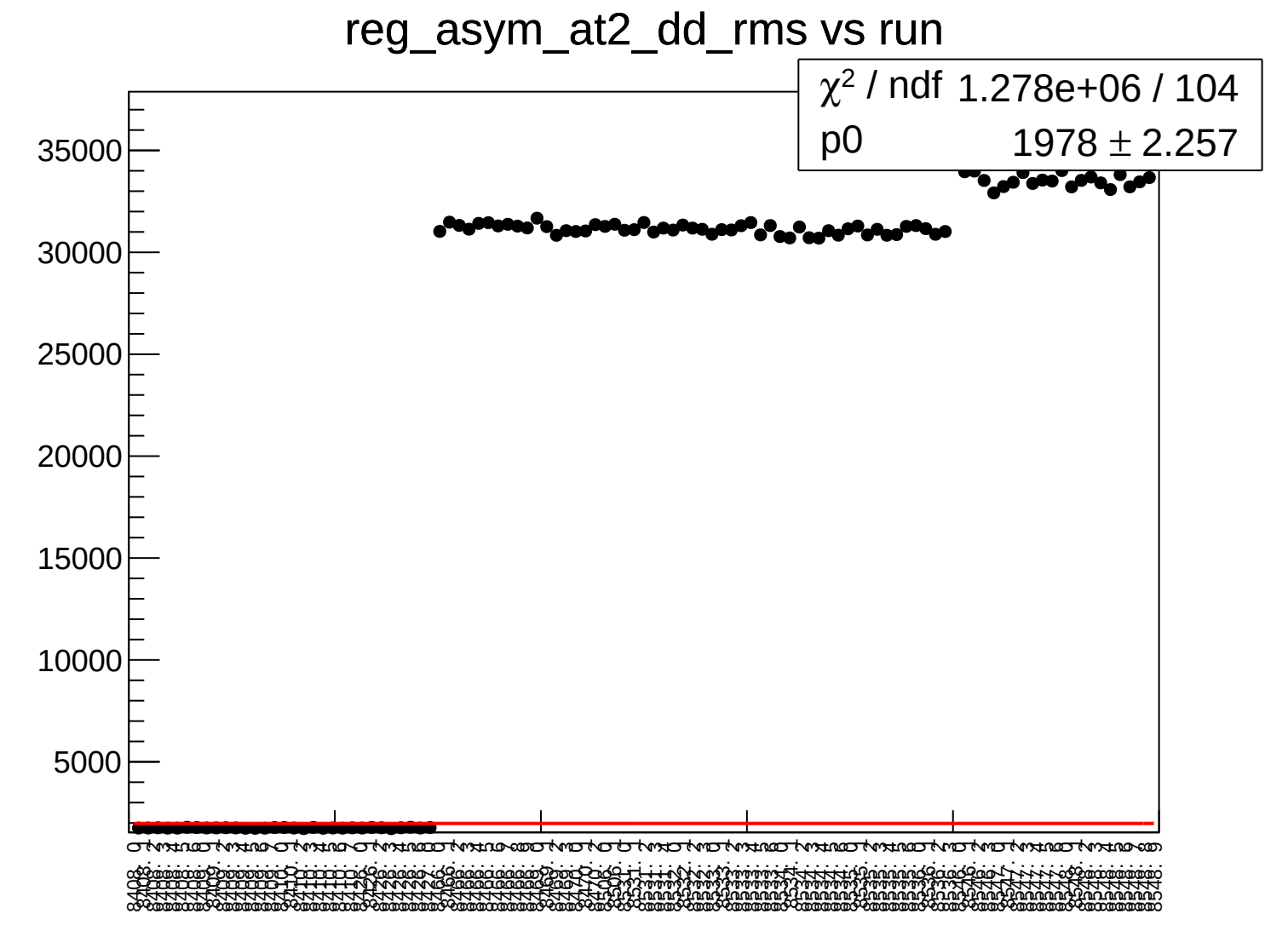

asym_at2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 80.98 / 104
p0 2.016e−13 ± 1.436e−13
0.1
0.05
0
−0.05
−0.1
pull
Entries 105
Mean 77.31
Std Dev 6.873
2
1
0
−1
−2

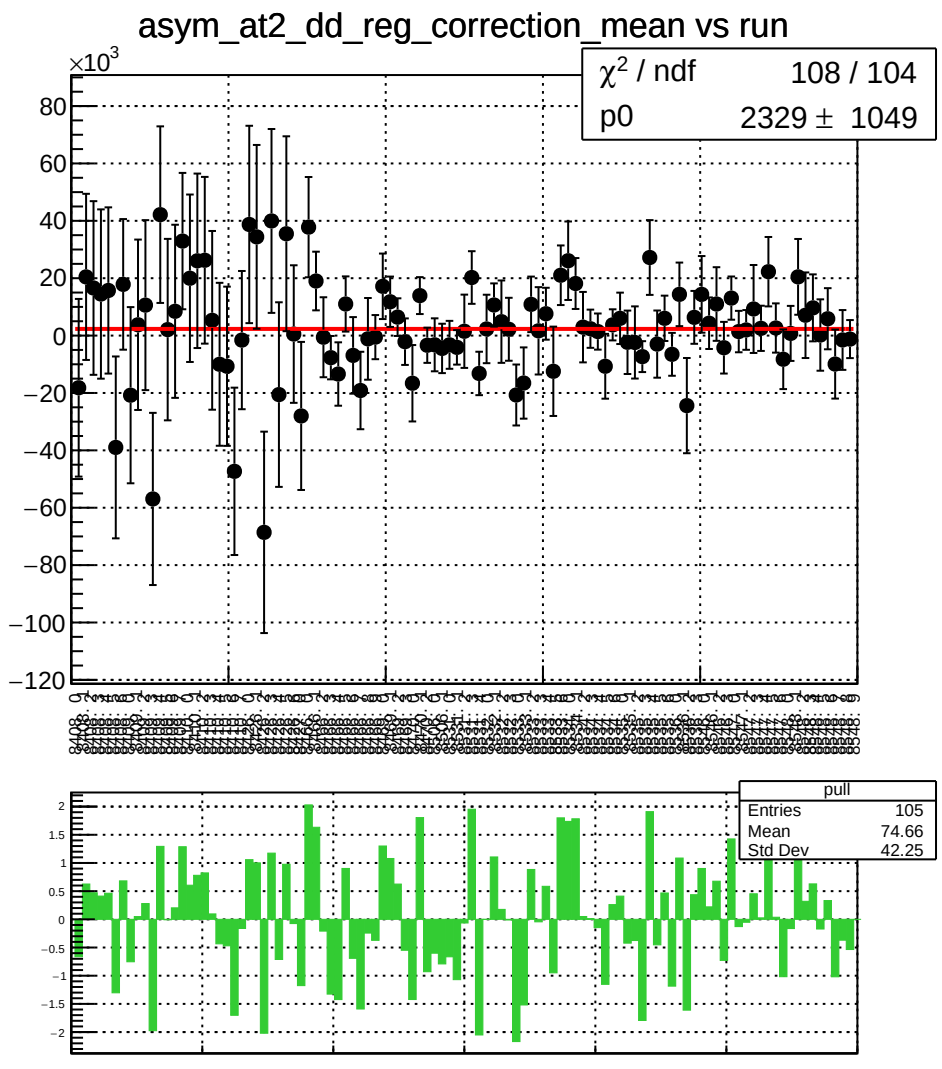

pull1D
Entries 105
Mean 0.03347
Std Dev 0.8776
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

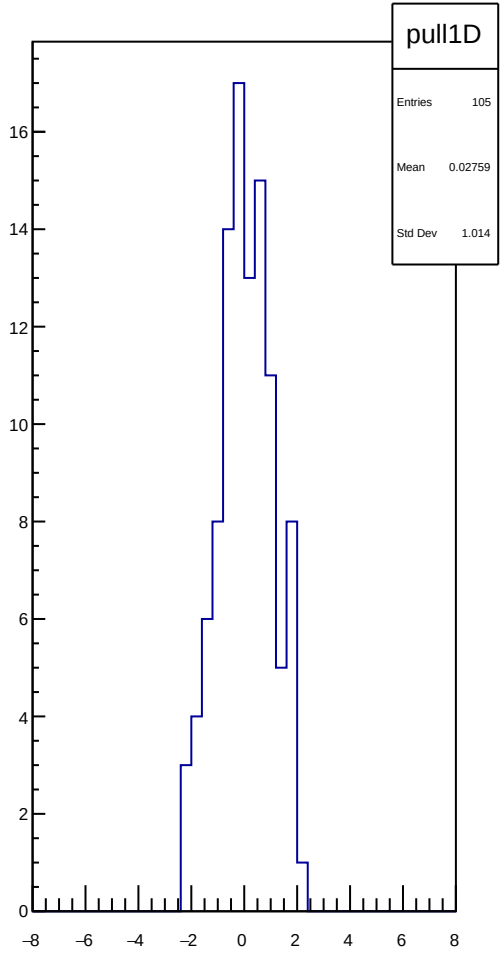

asym_at2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.462e+06 / 104
p0 7.761e−11 ± 1.015e−13
5
4
3
2
1

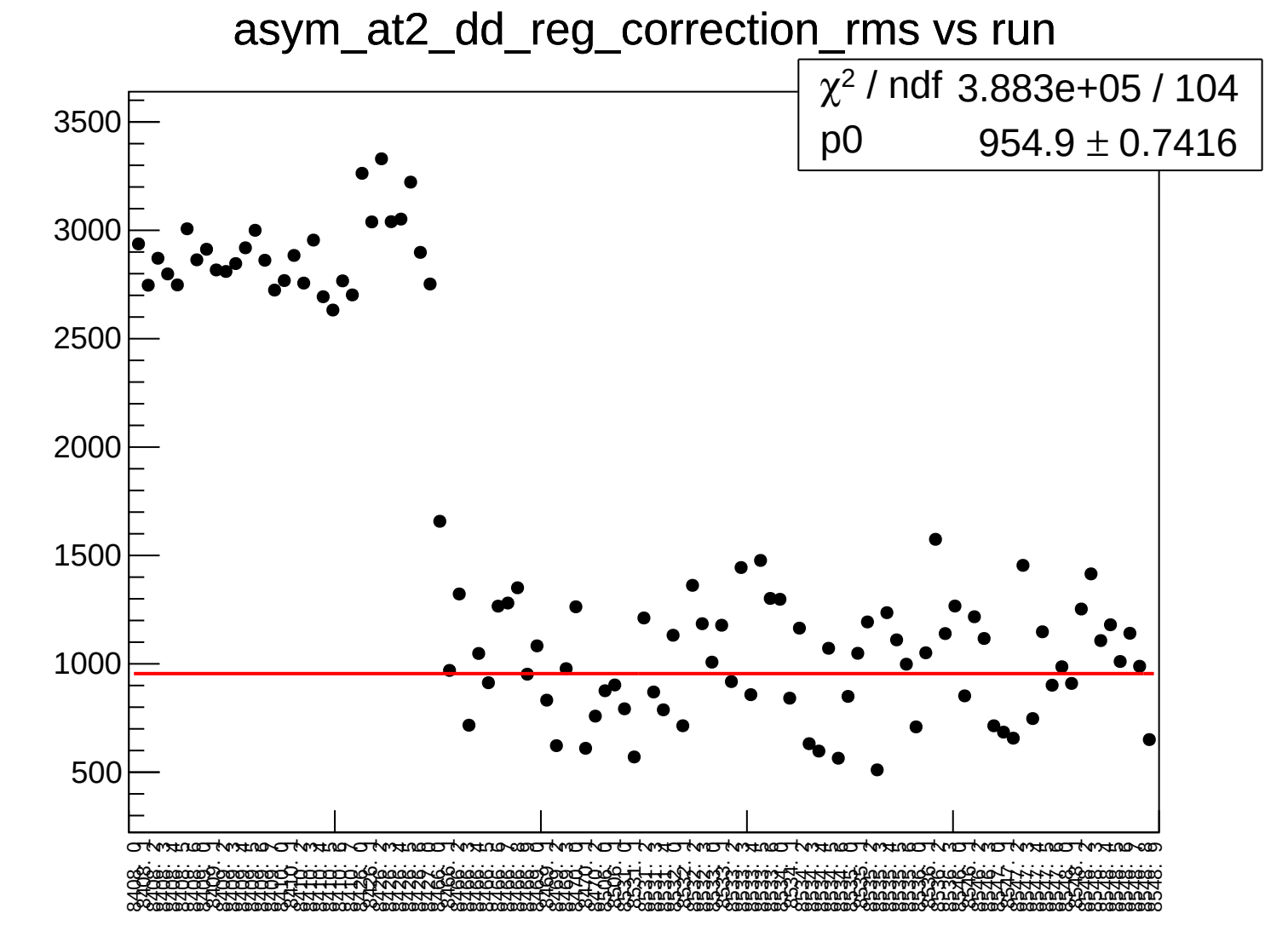

reg_asym_at2_dd_mean vs run
×10^3
χ^2 / ndf 61.98 / 103
p0 961 ± 3192
1000
500
0
−500
−1000
pull
Entries 104
Mean 34.32
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

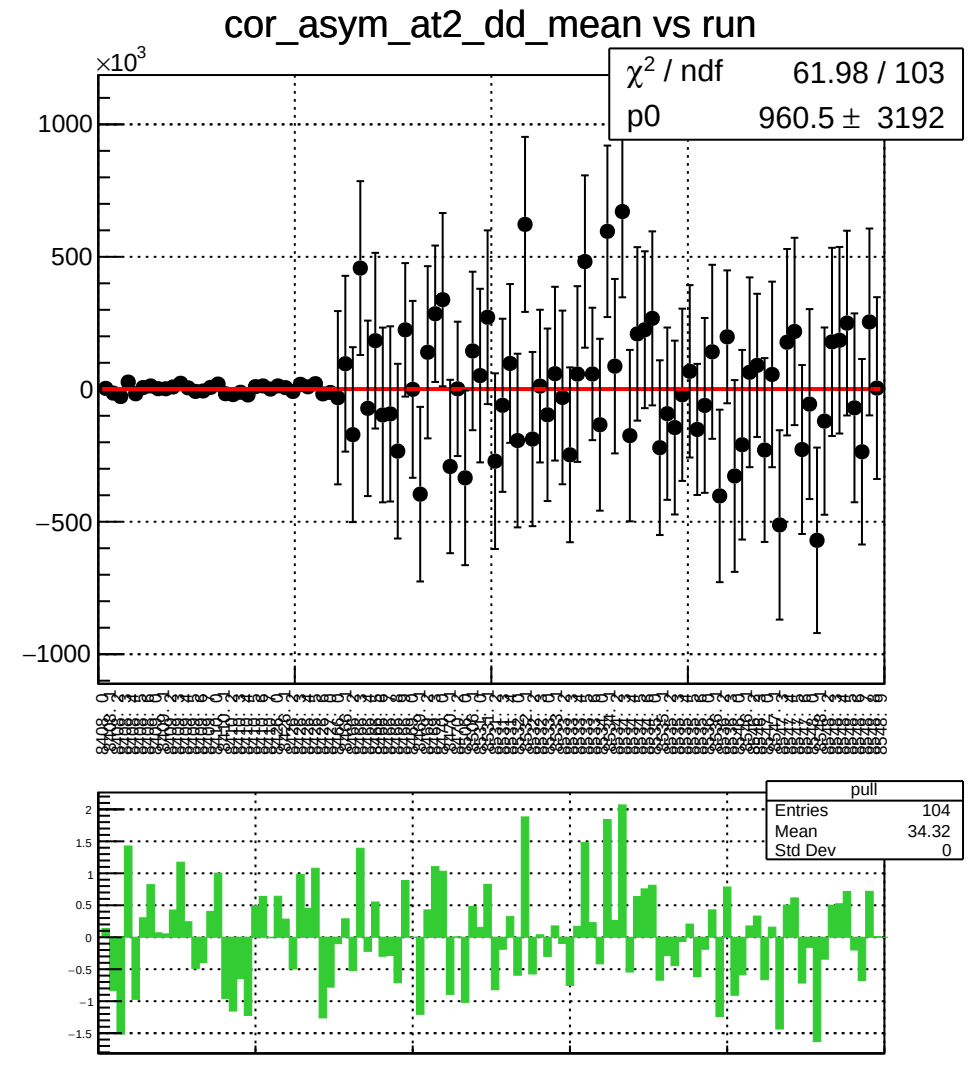

pull1D
Entries 104
Mean 0.02909
Std Dev 0.7715
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

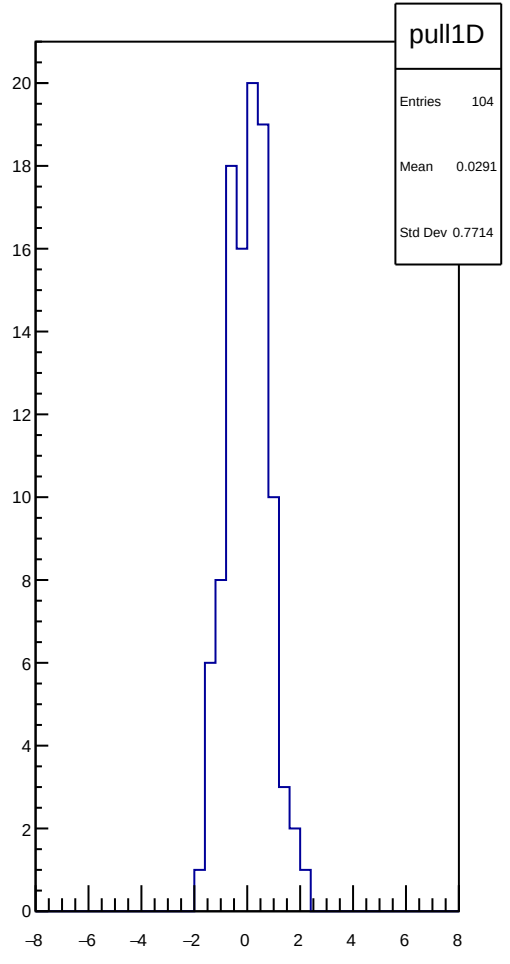

reg_asym_at2_dd_rms vs run
χ² / ndf 1.278e+06 / 104
p0 1978 ± 2.257
35000
30000
25000
20000
15000
10000
5000

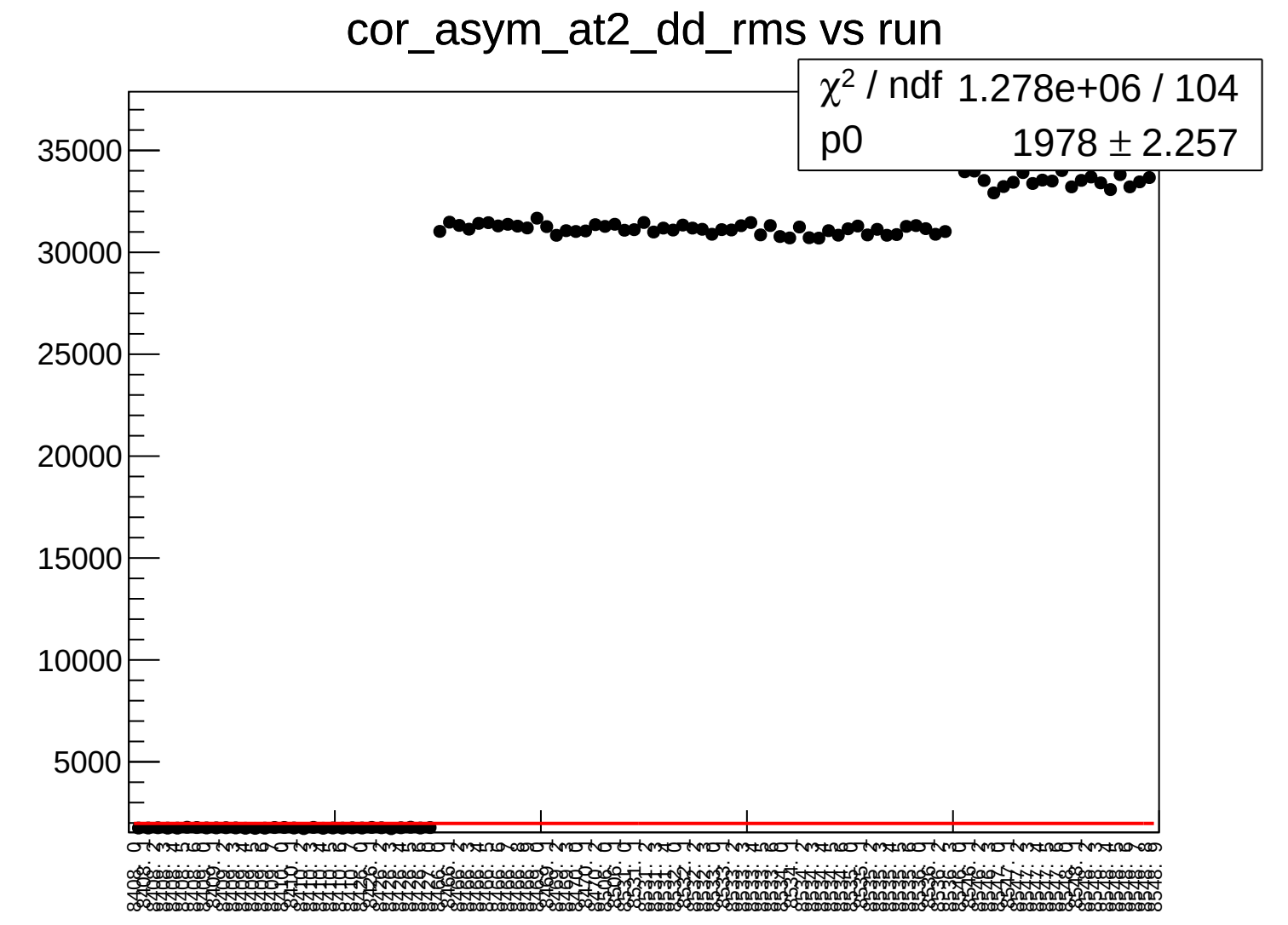

asym_at2_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 108 / 104
p0 2329 ± 1049
pull
Entries 105
Mean 74.66
Std Dev 42.25

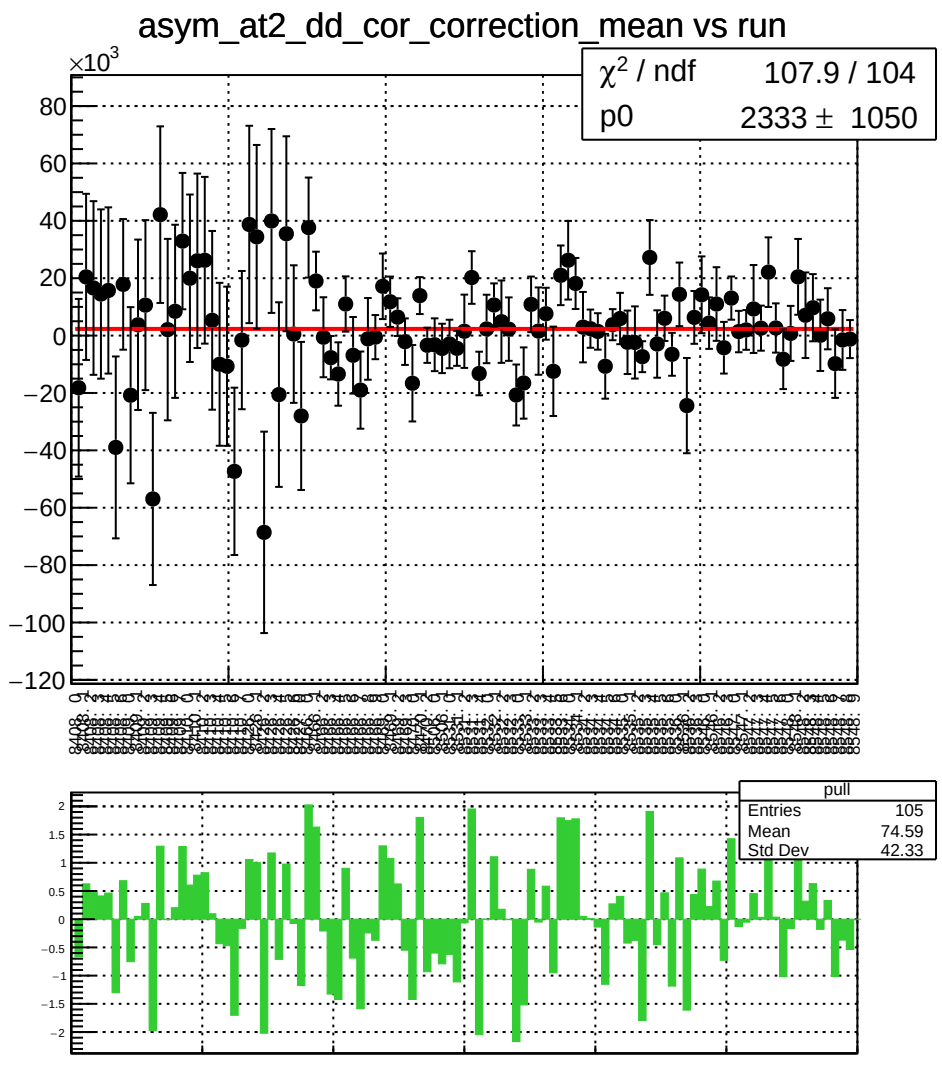

pull1D
Entries 105
Mean 0.02759
Std Dev 1.014

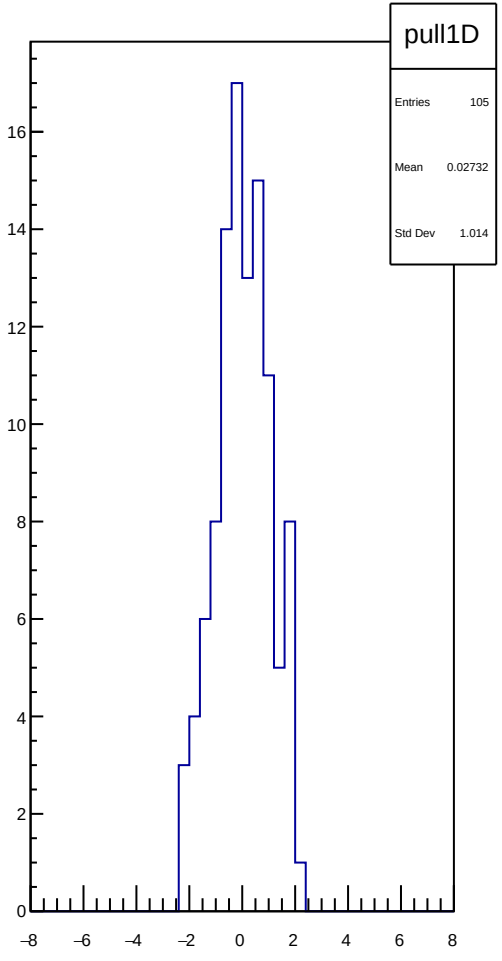

asym_at2_dd_reg_correction_rms vs run
χ² / ndf 3.883e+05 / 104
p0 954.9 ± 0.7416
3500
3000
2500
2000
1500
1000
500

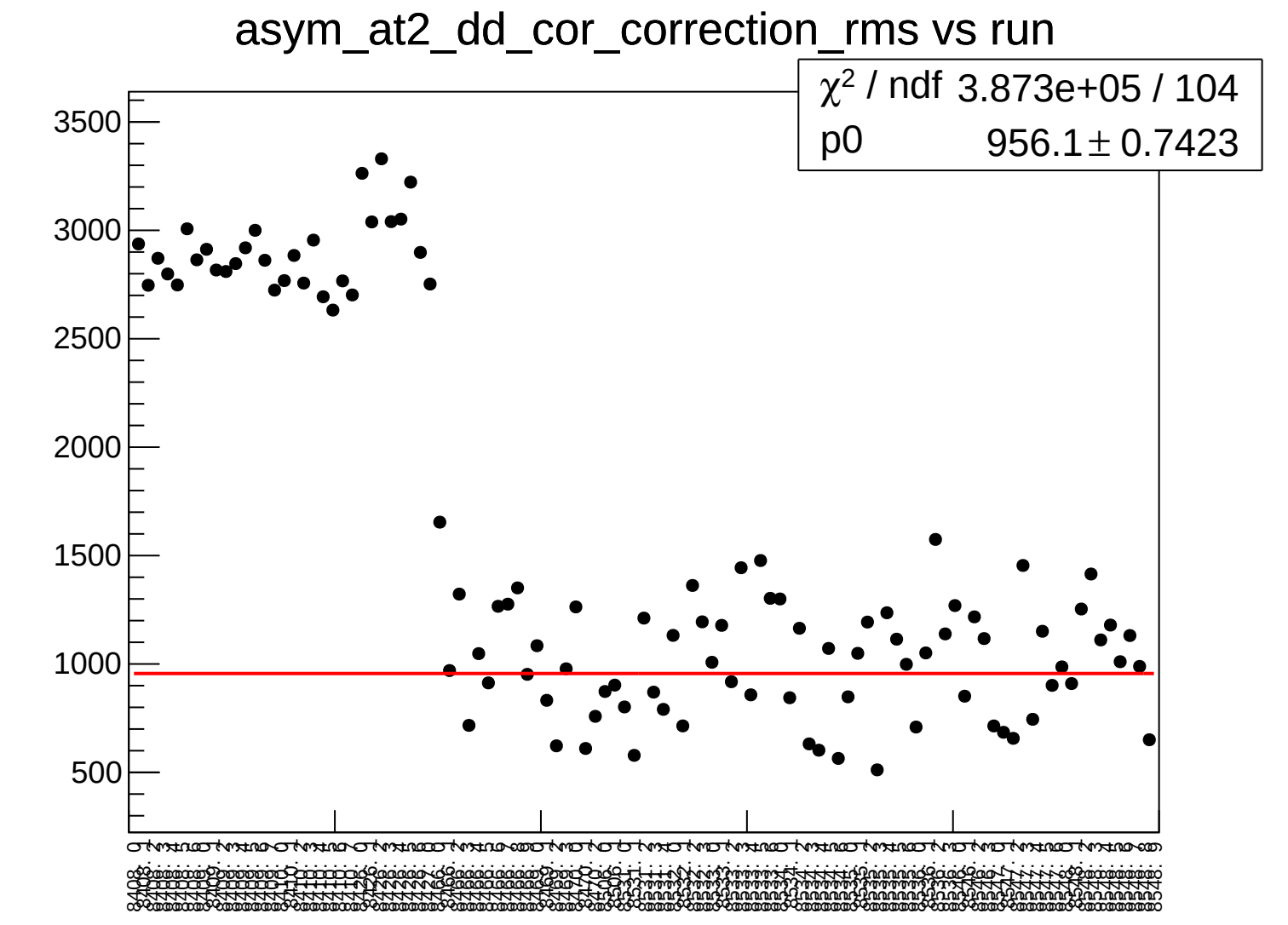

cor_asym_at2_dd_mean vs run
×10^3
1000
500
0
−500
−1000
χ² / ndf 61.98 / 103
p0 960.5 ± 3192
pull
Entries 104
Mean 34.32
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

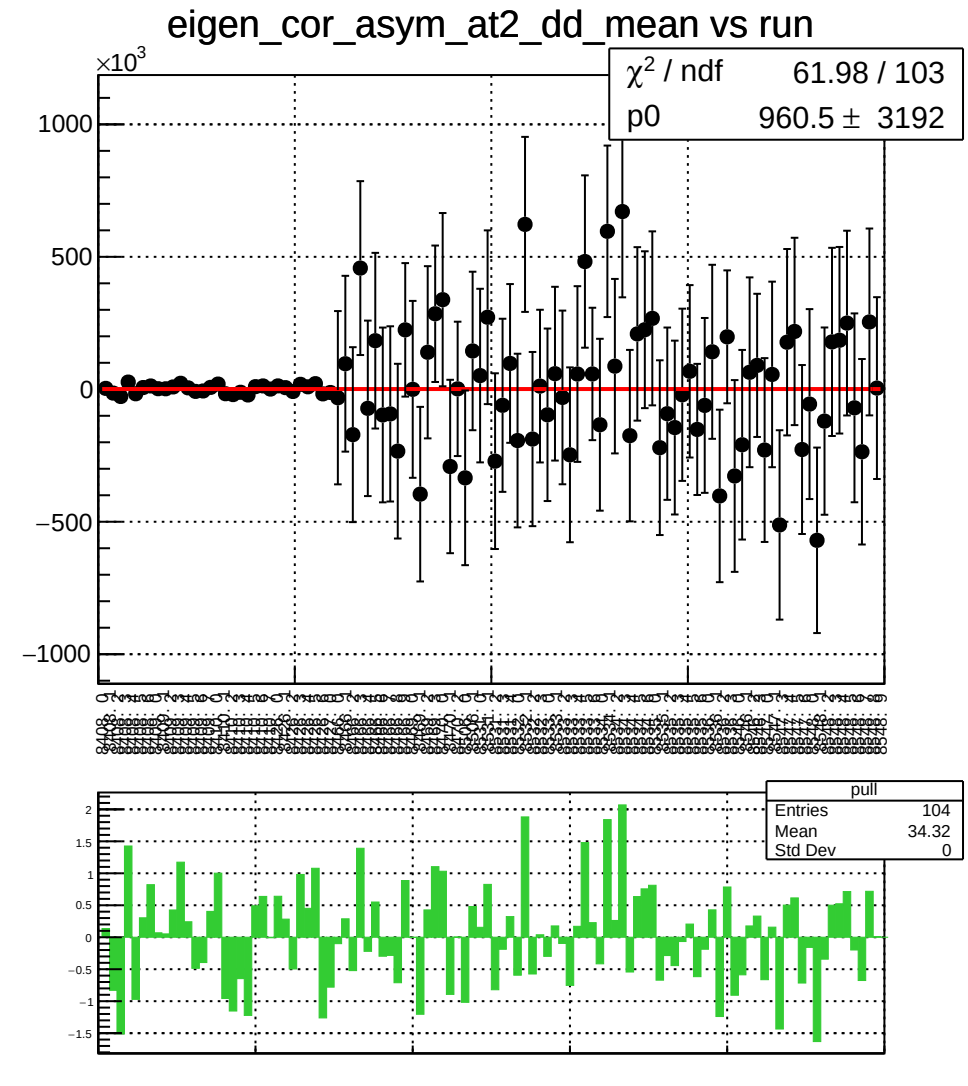

pull1D
Entries 104
Mean 0.0291
Std Dev 0.7714
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

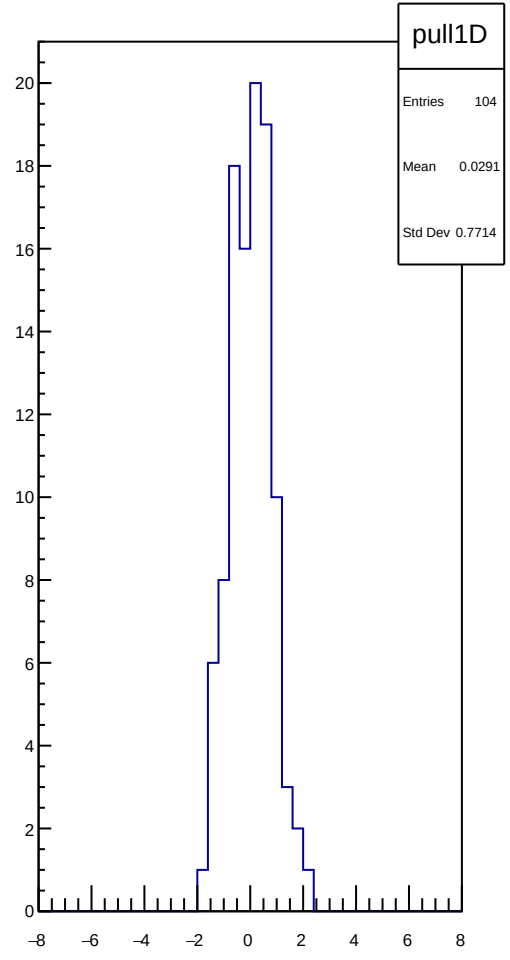

cor_asym_at2_dd_rms vs run
χ² / ndf 1.278e+06 / 104
p0 1978 ± 2.257
35000
30000
25000
20000
15000
10000
5000

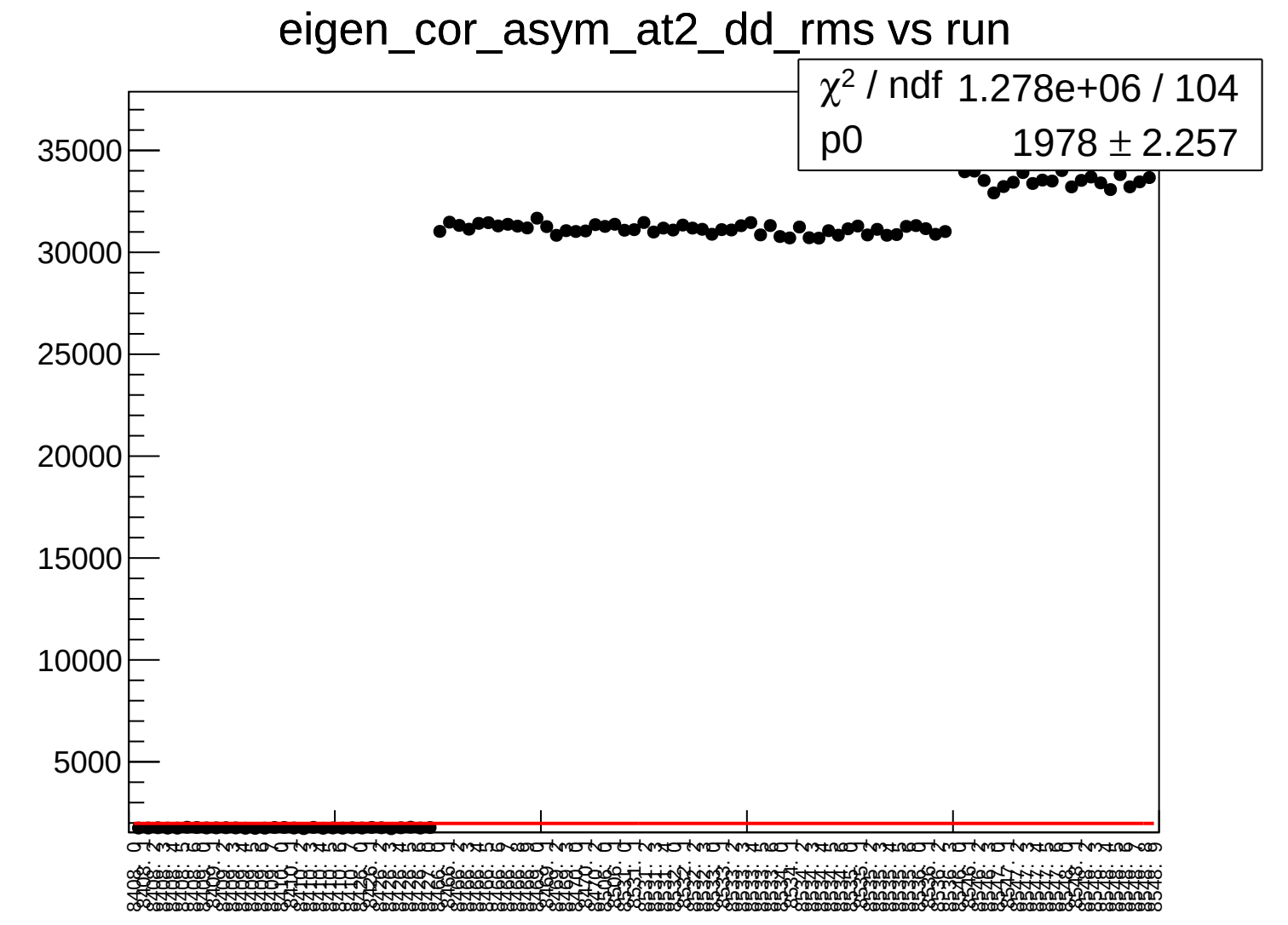

asym_at2_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 107.9 / 104
p0 2333 ± 1050
pull
Entries 105
Mean 74.59
Std Dev 42.33

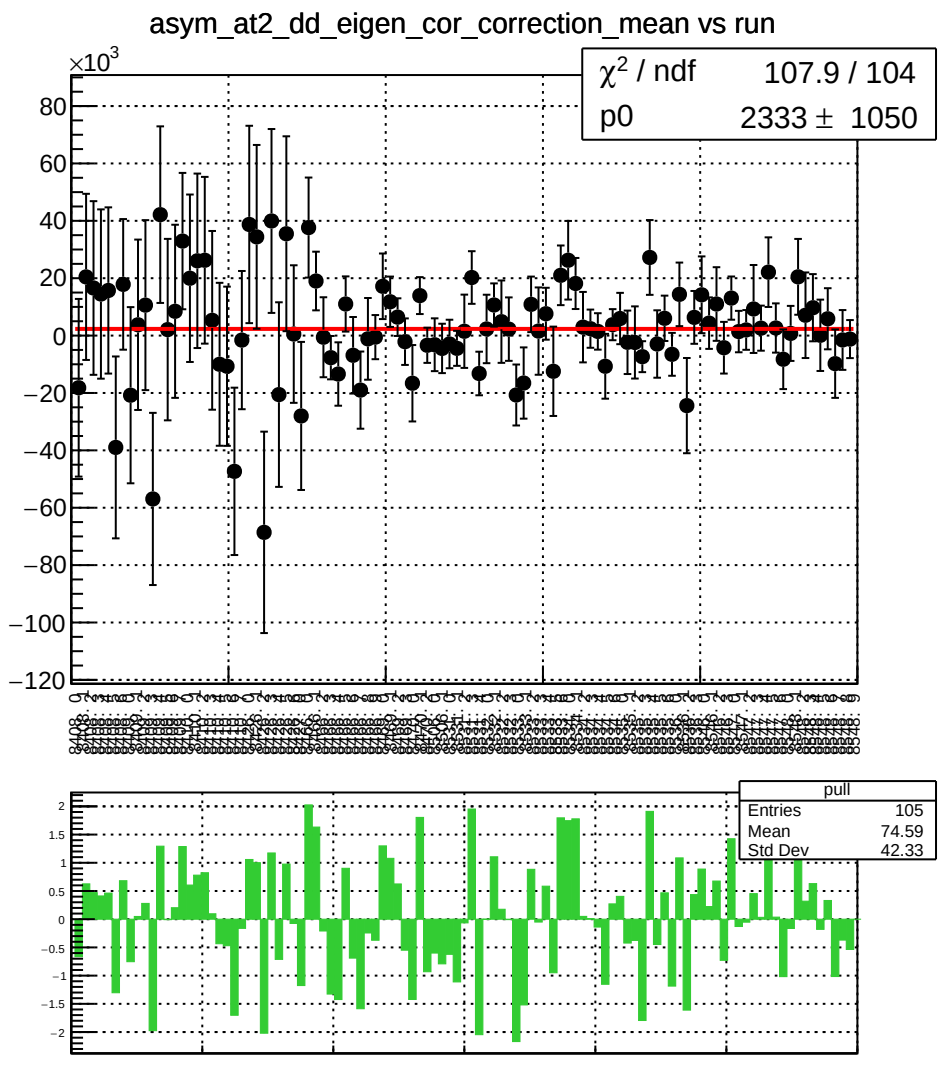

pull1D
Entries 105
Mean 0.02732
Std Dev 1.014

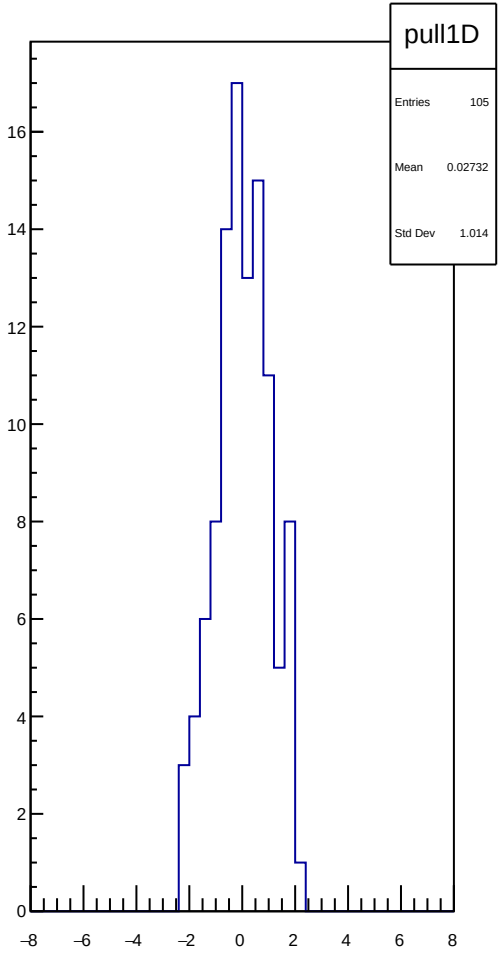

asym_at2_dd_cor_correction_rms vs run
χ² / ndf 3.873e+05 / 104
p0 956.1 ± 0.7423
3500
3000
2500
2000
1500
1000
500

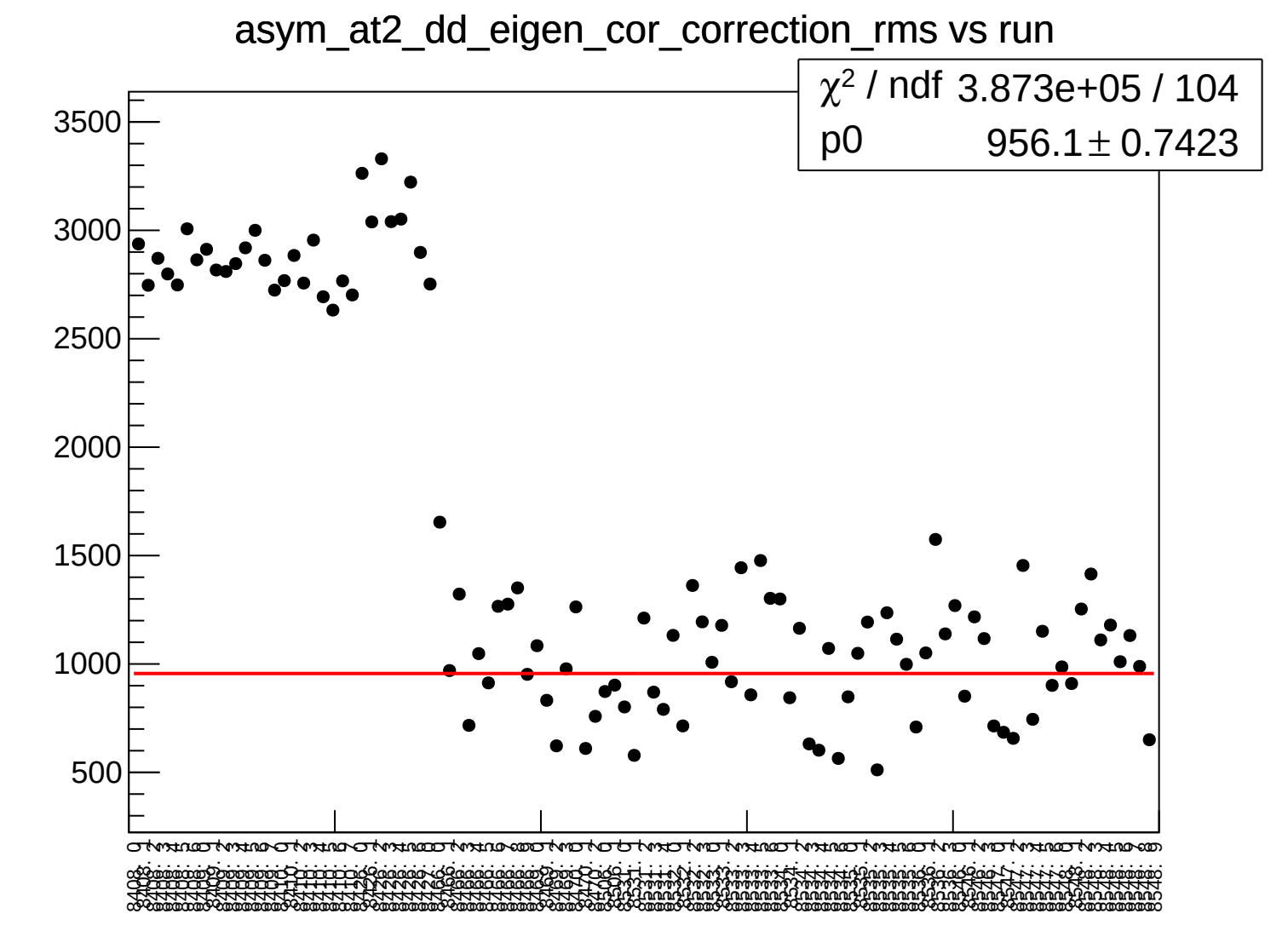

eigen_cor_asym_at2_dd_mean vs run
×10^3
χ^2 / ndf 61.98 / 103
p0 960.5 ± 3192
1000
500
0
−500
−1000
pull
Entries 104
Mean 34.32
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

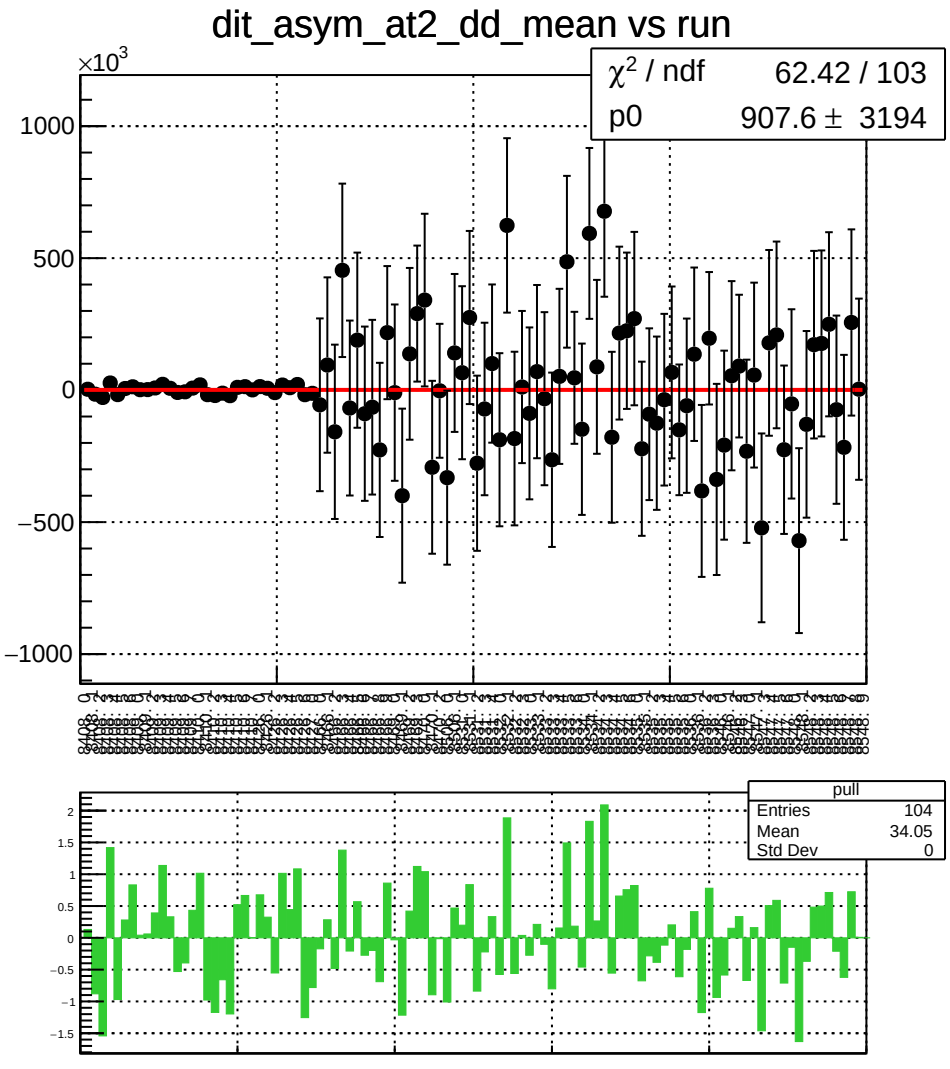

pull1D
Entries 104
Mean 0.0291
Std Dev 0.7714
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

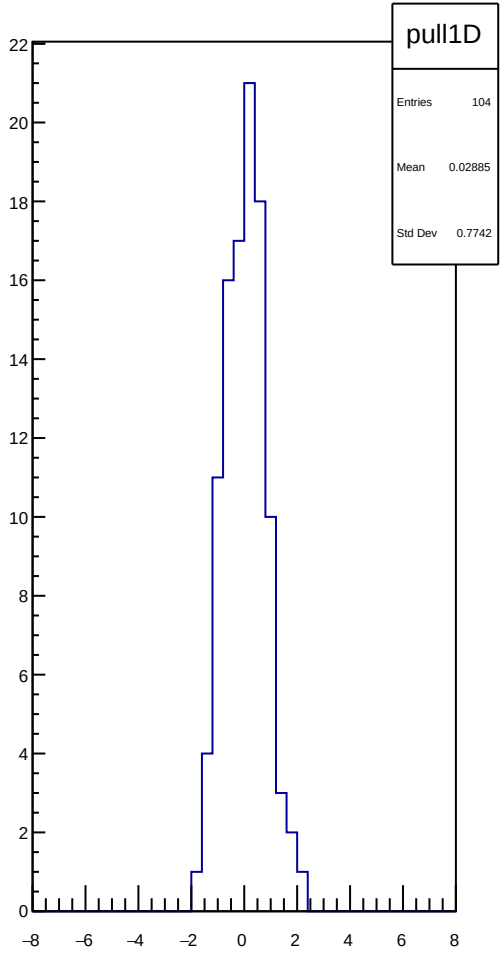

eigen_cor_asym_at2_dd_rms vs run
χ² / ndf 1.278e+06 / 104
p0 1978 ± 2.257
35000
30000
25000
20000
15000
10000
5000

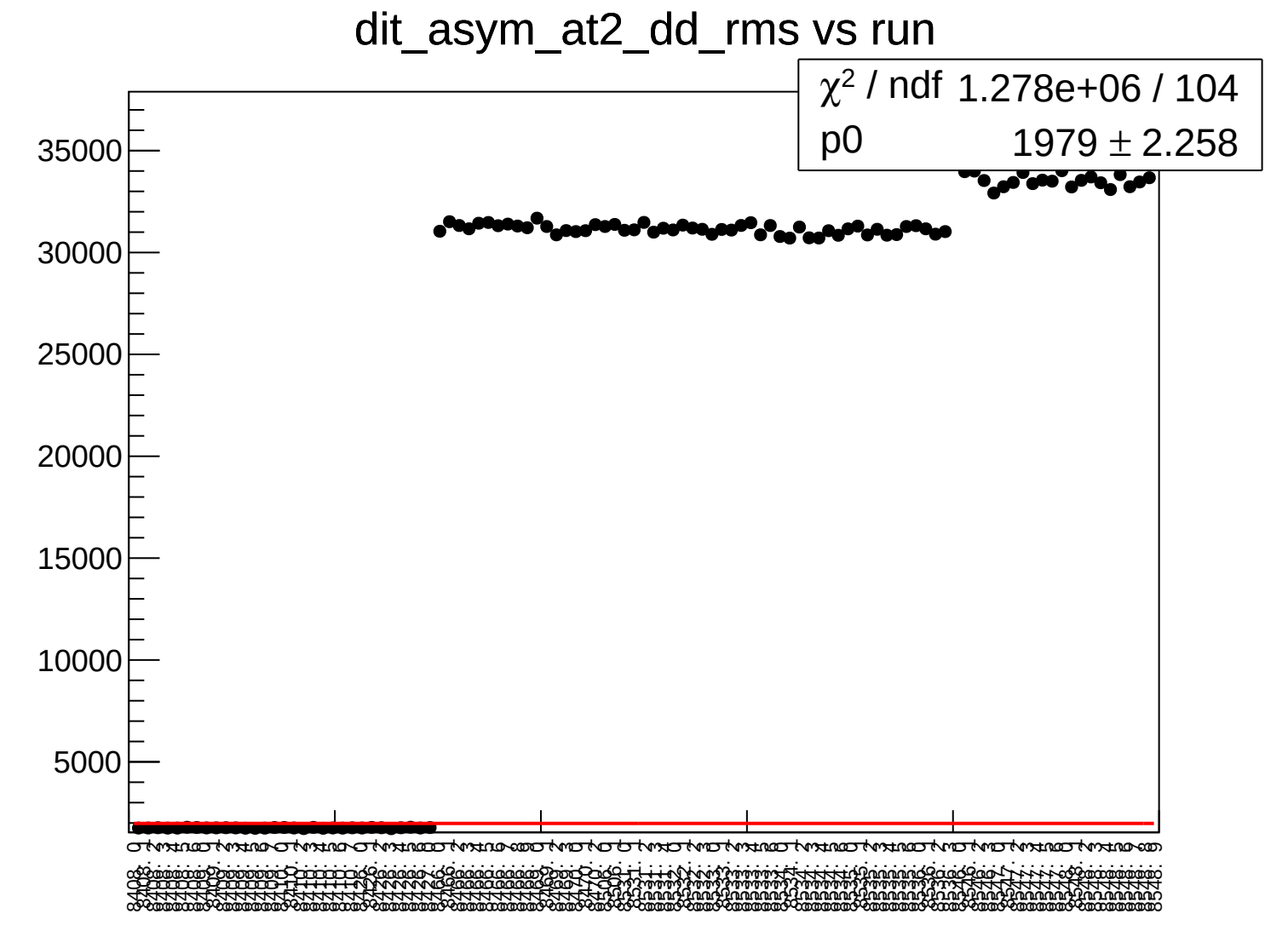

asym_at2_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 107.9 / 104
p0 2333 ± 1050
pull
Entries 105
Mean 74.59
Std Dev 42.33

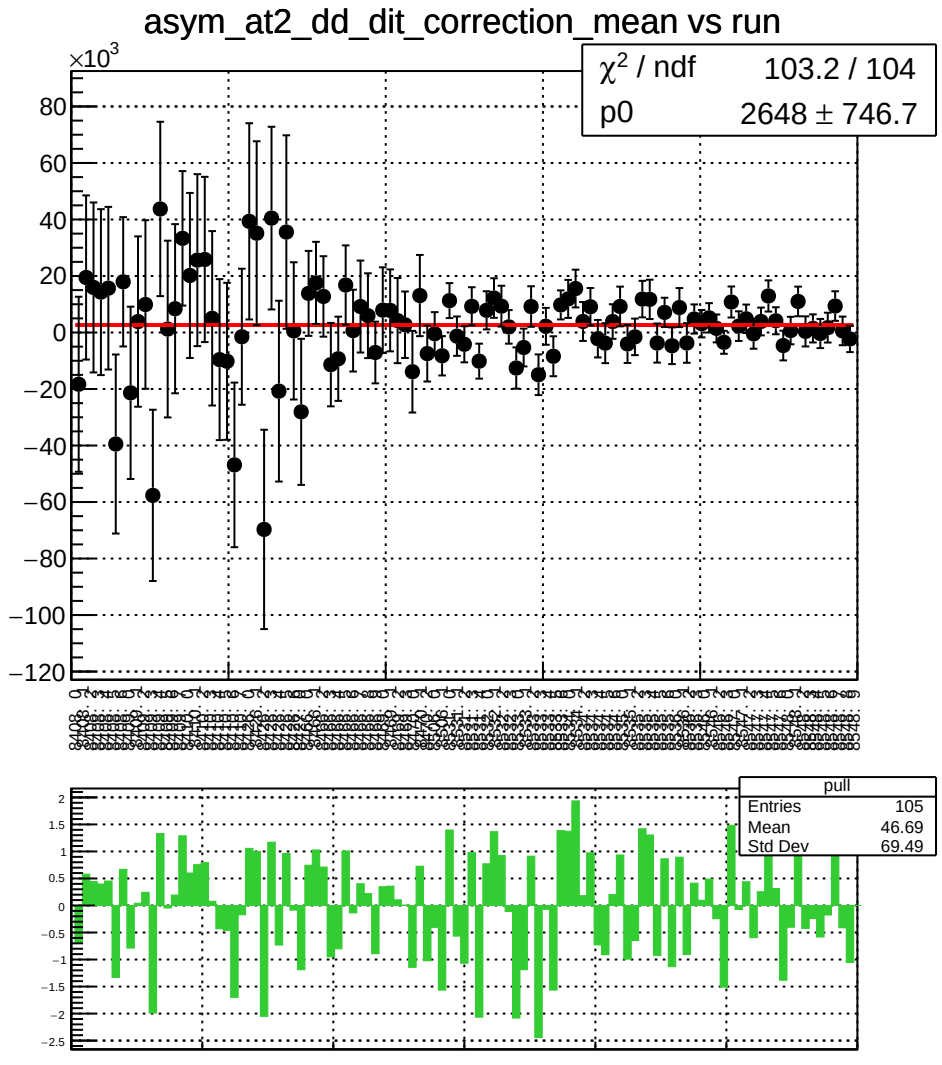

pull1D
Entries 105
Mean 0.02732
Std Dev 1.014

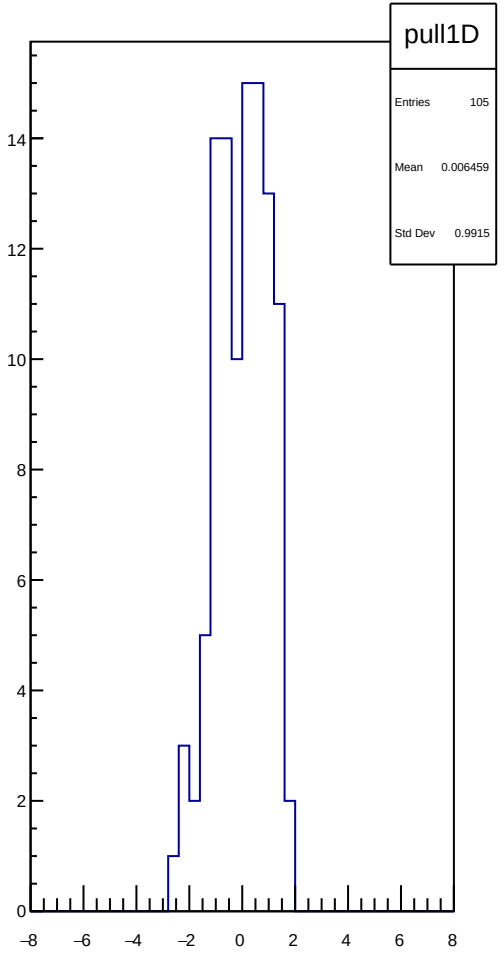

asym_at2_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.873e+05 / 104
p0 956.1 ± 0.7423
3500
3000
2500
2000
1500
1000
500

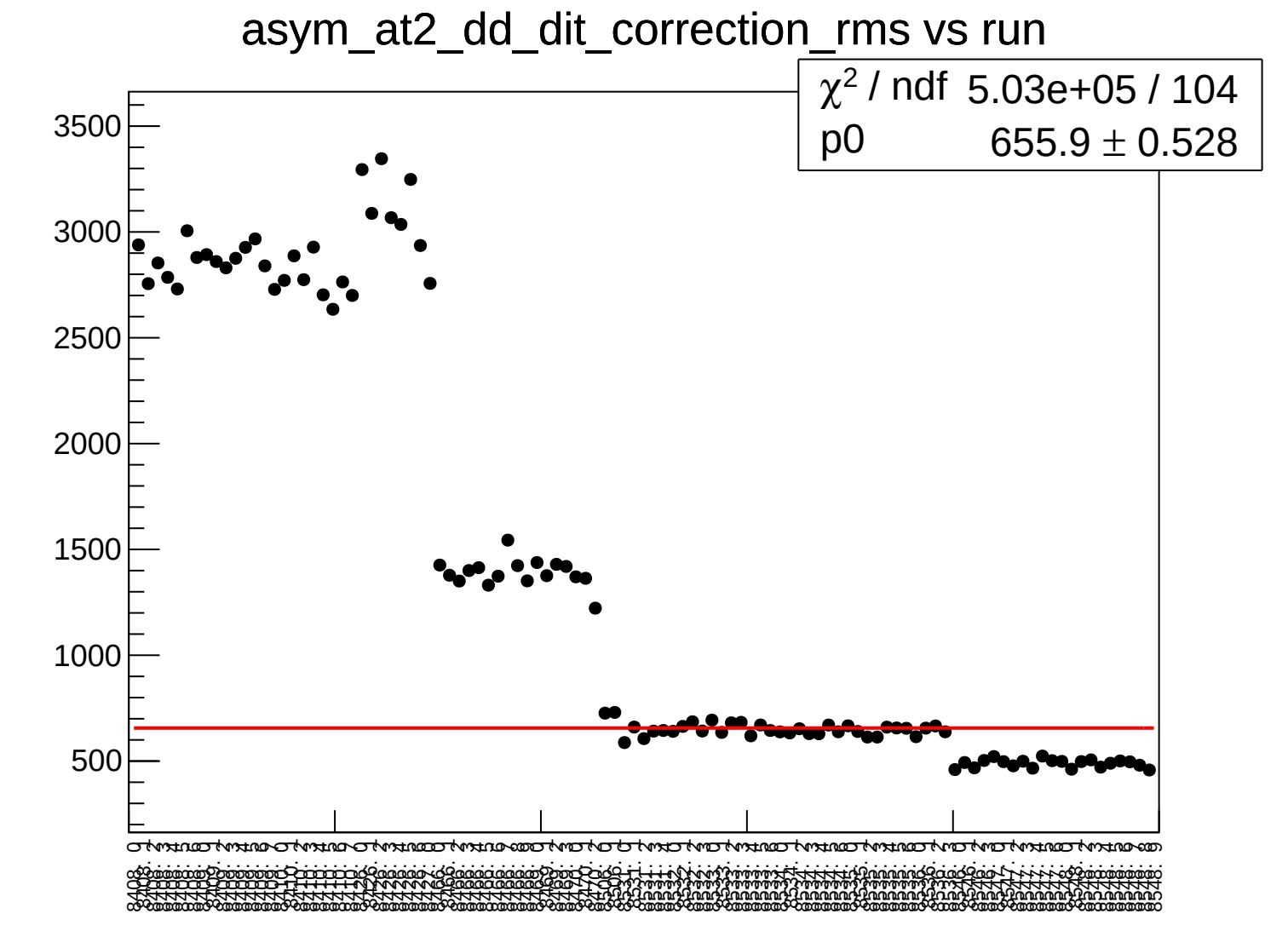

dit_asym_at2_dd_mean vs run
×10^3
χ^2 / ndf 62.42 / 103
p0 907.6 ± 3194
1000
500
0
−500
−1000
pull
Entries 104
Mean 34.05
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

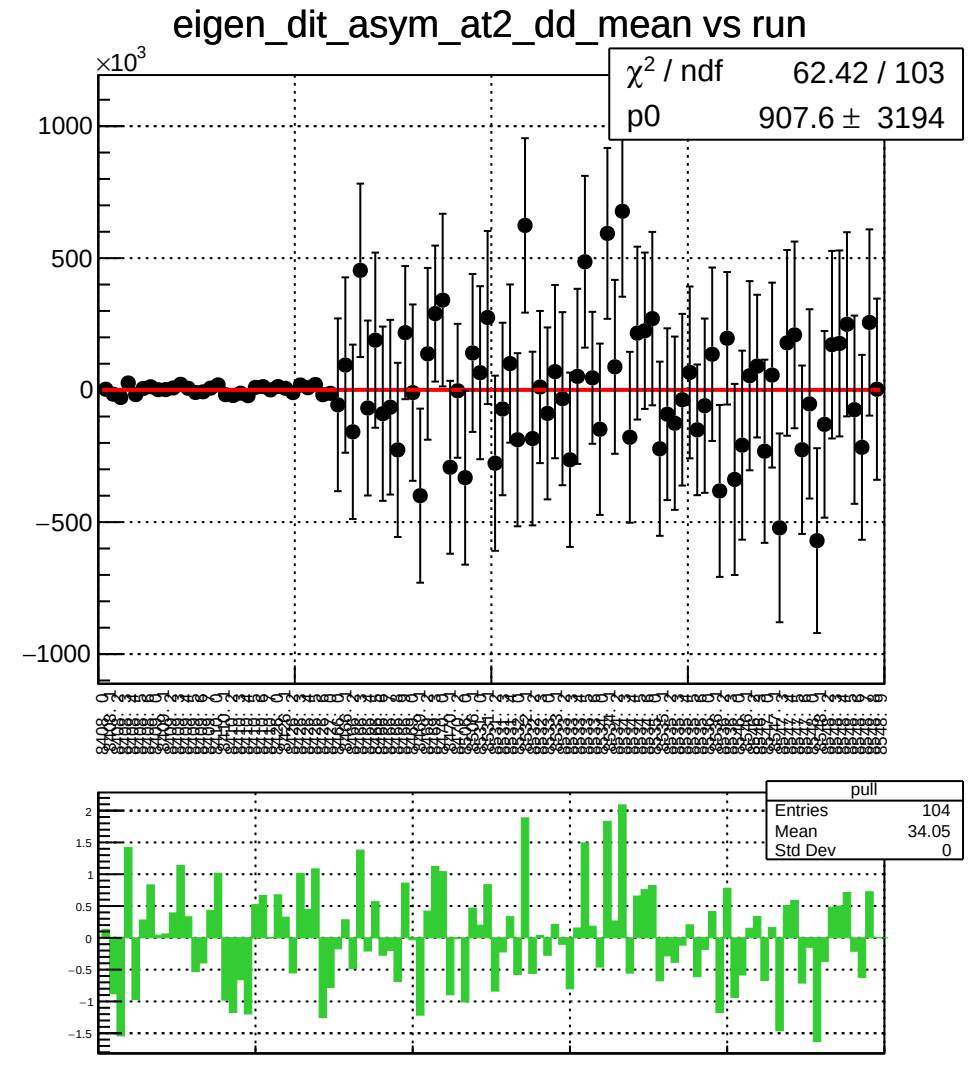

pull1D
Entries 104
Mean 0.02885
Std Dev 0.7742
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

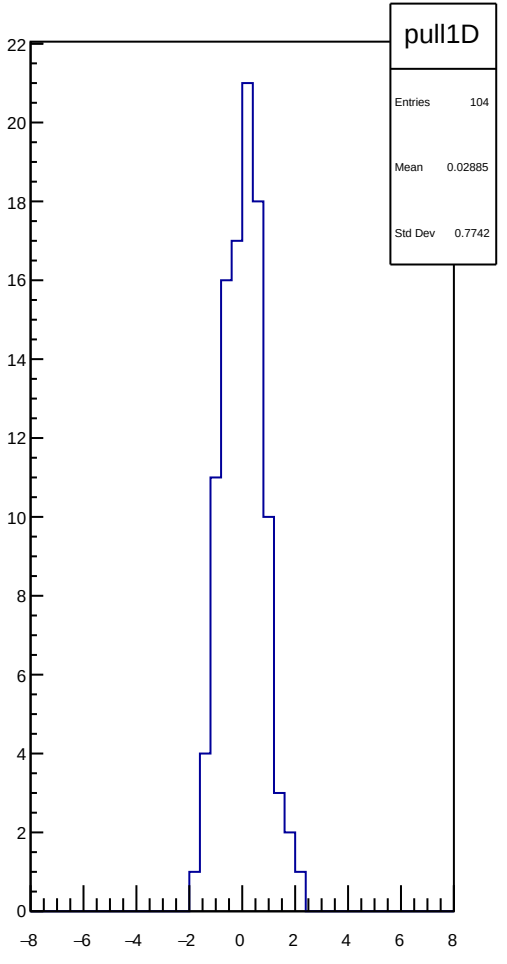

dit_asym_at2_dd_rms vs run
χ² / ndf 1.278e+06 / 104
p0 1979 ± 2.258
35000
30000
25000
20000
15000
10000
5000

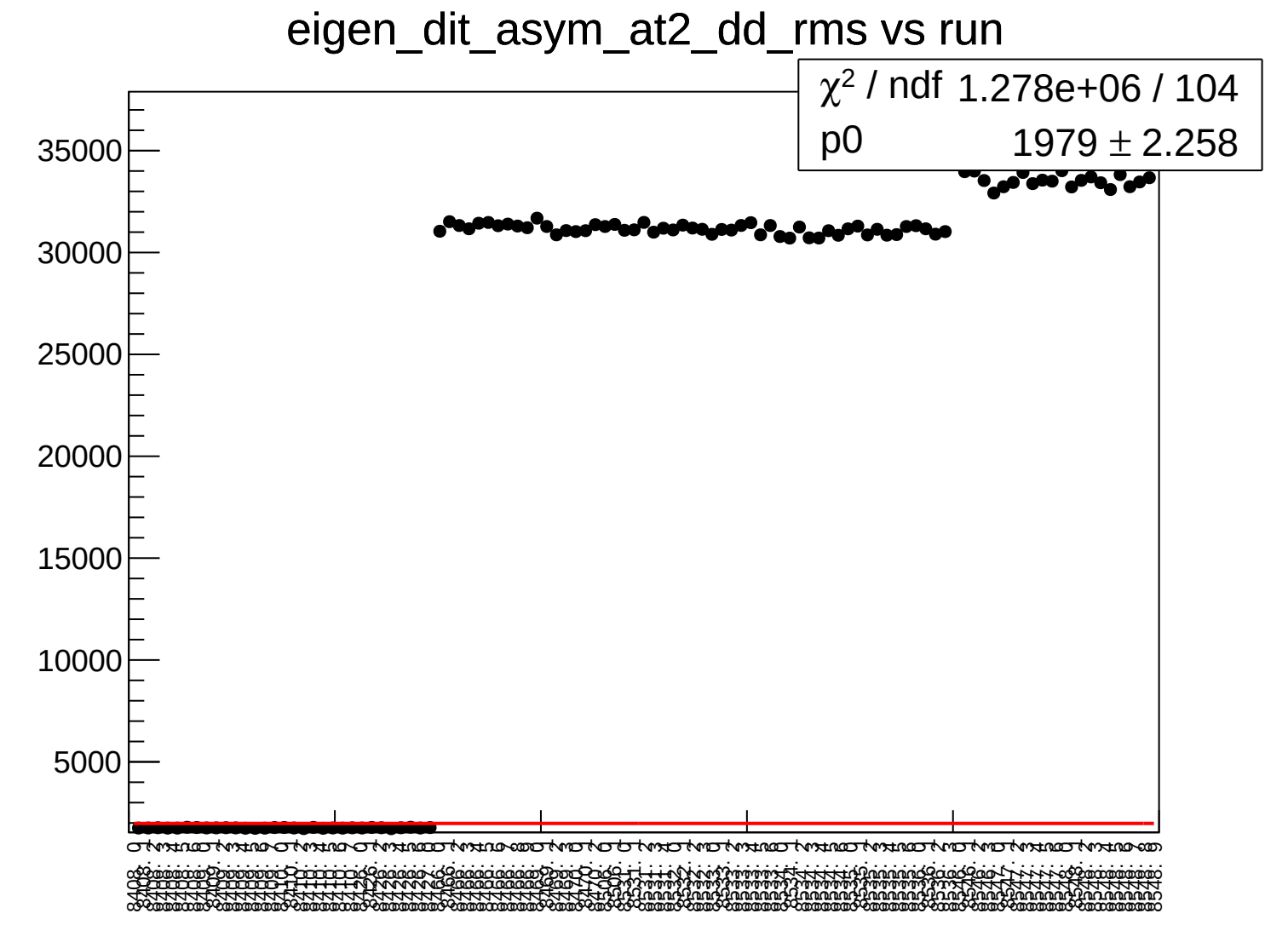

asym_at2_dd_dit_correction_mean vs run
χ^2 / ndf 103.2 / 104
p0 2648 ± 746.7
×10^3
pull
Entries 105
Mean 46.69
Std Dev 69.49

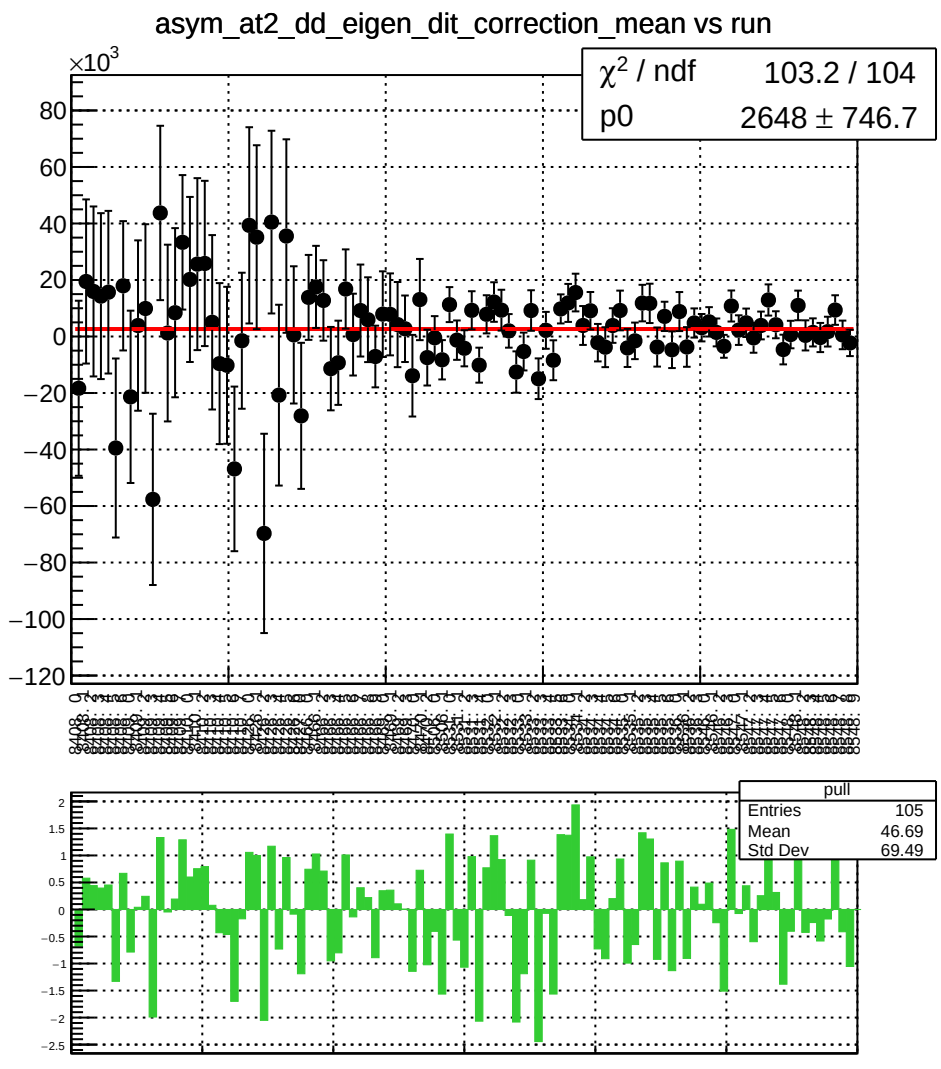

pull1D
Entries 105
Mean 0.006459
Std Dev 0.9915

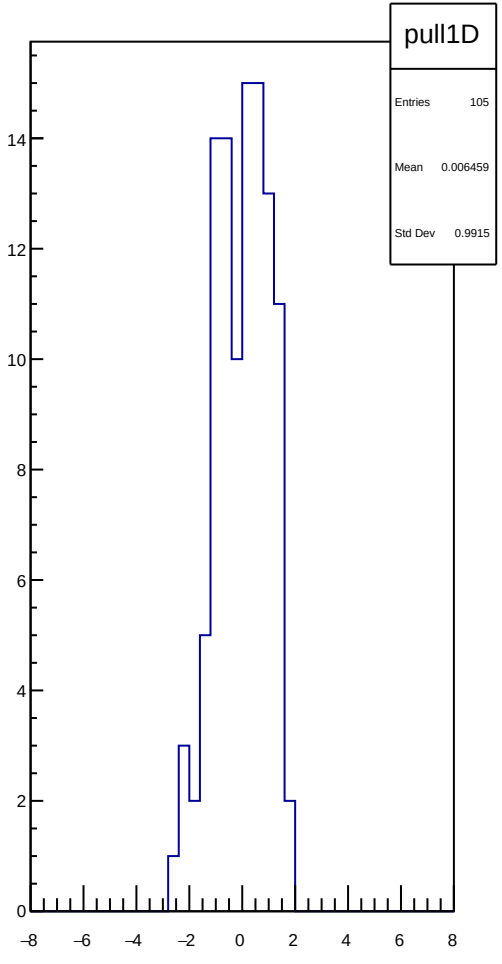

asym_at2_dd_dit_correction_rms vs run
χ² / ndf 5.03e+05 / 104
p0 655.9 ± 0.528
3500
3000
2500
2000
1500
1000
500

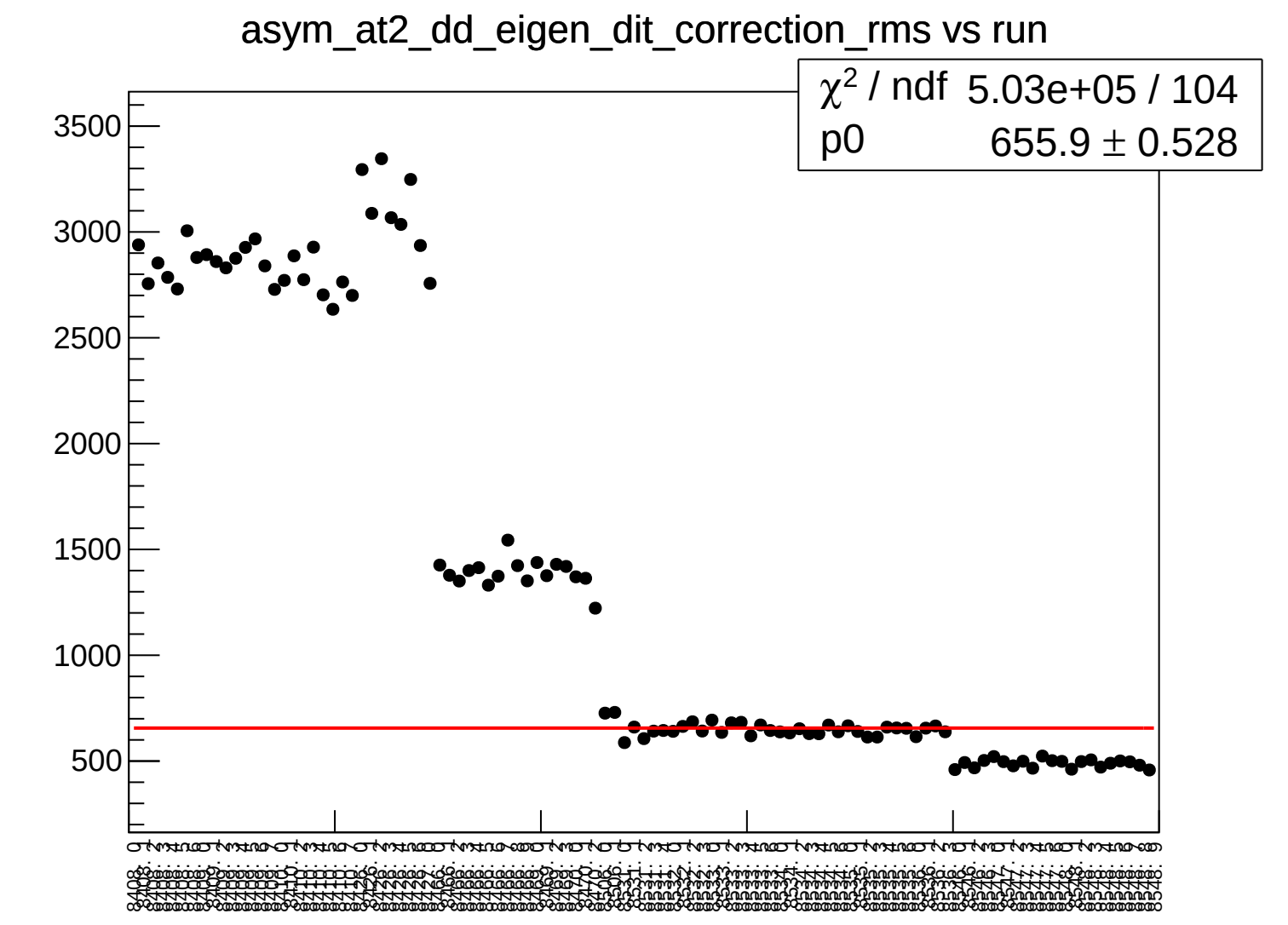

eigen_dit_asym_at2_dd_mean vs run
×10^3
χ^2 / ndf 62.42 / 103
p0 907.6 ± 3194
1000
500
0
−500
−1000
pull
Entries 104
Mean 34.05
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

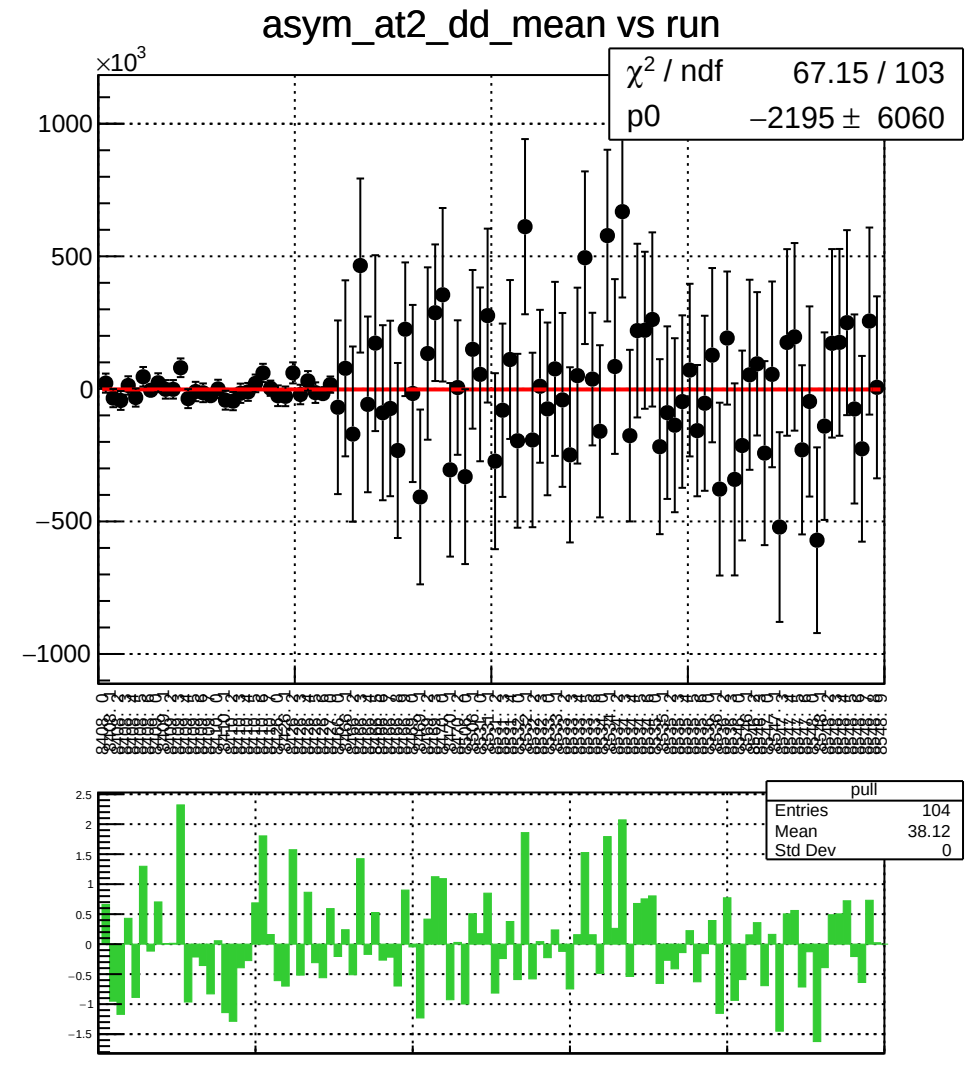

pull1D
Entries 104
Mean 0.02885
Std Dev 0.7742
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

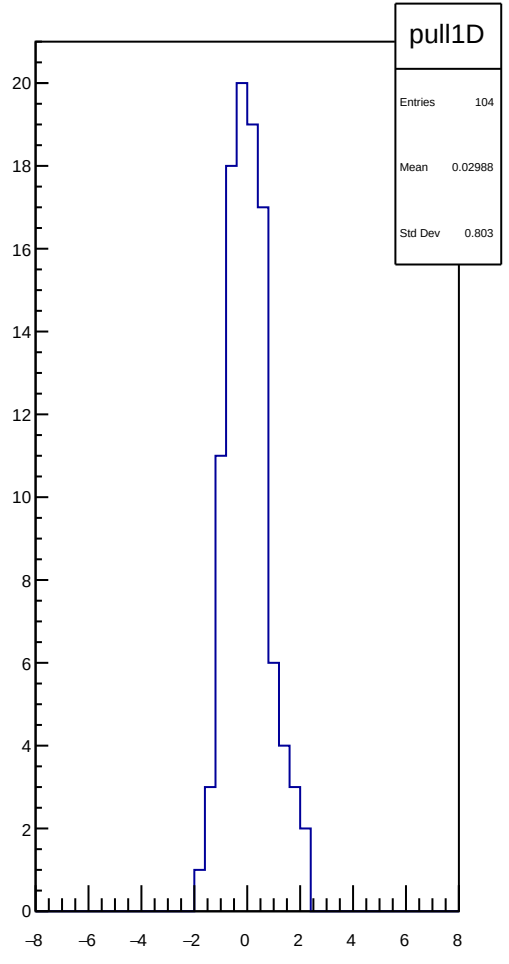

eigen_dit_asym_at2_dd_rms vs run
χ² / ndf 1.278e+06 / 104
p0 1979 ± 2.258
35000
30000
25000
20000
15000
10000
5000

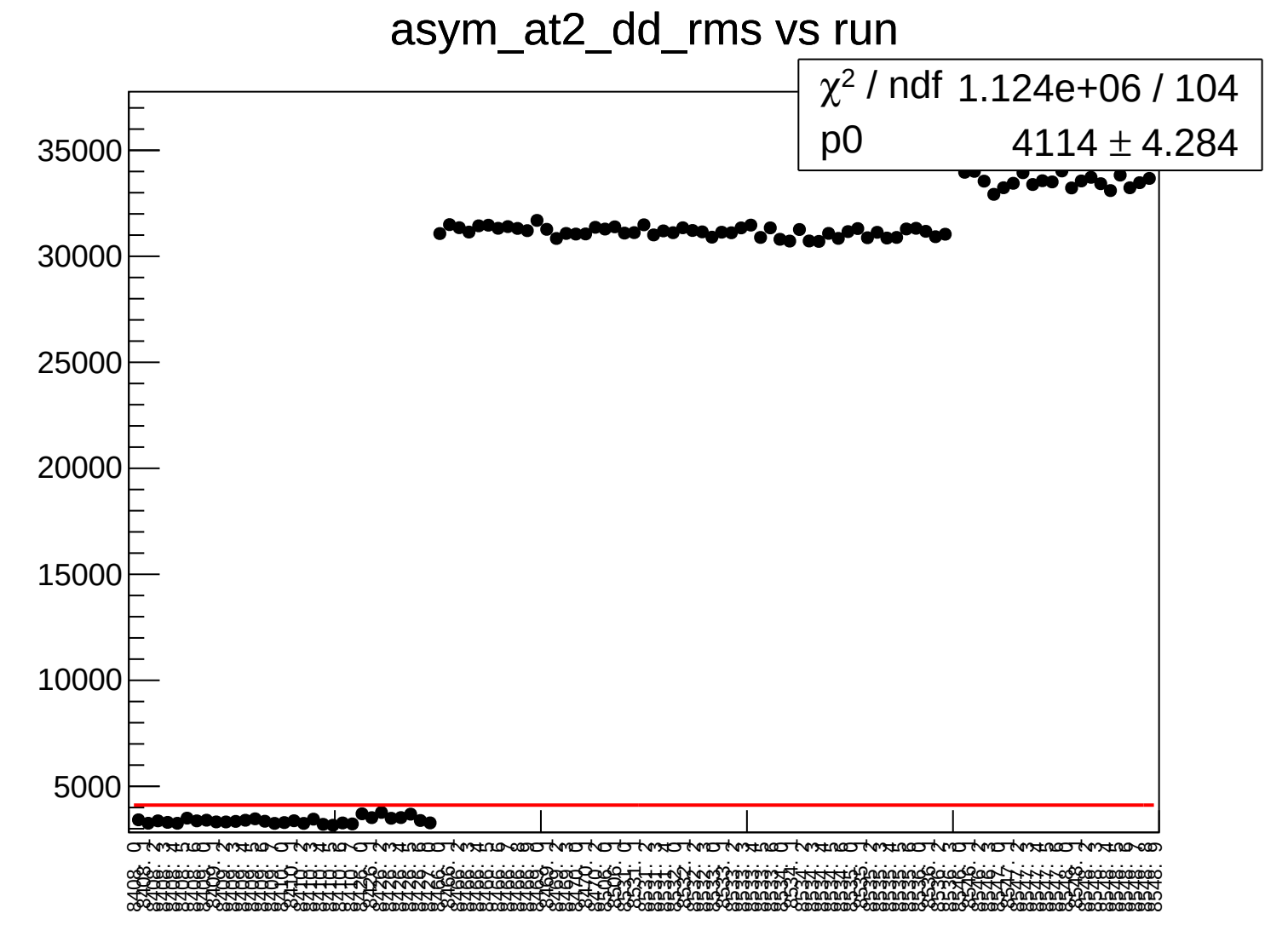

asym_at2_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 103.2 / 104
p0 2648 ± 746.7
pull
Entries 105
Mean 46.69
Std Dev 69.49

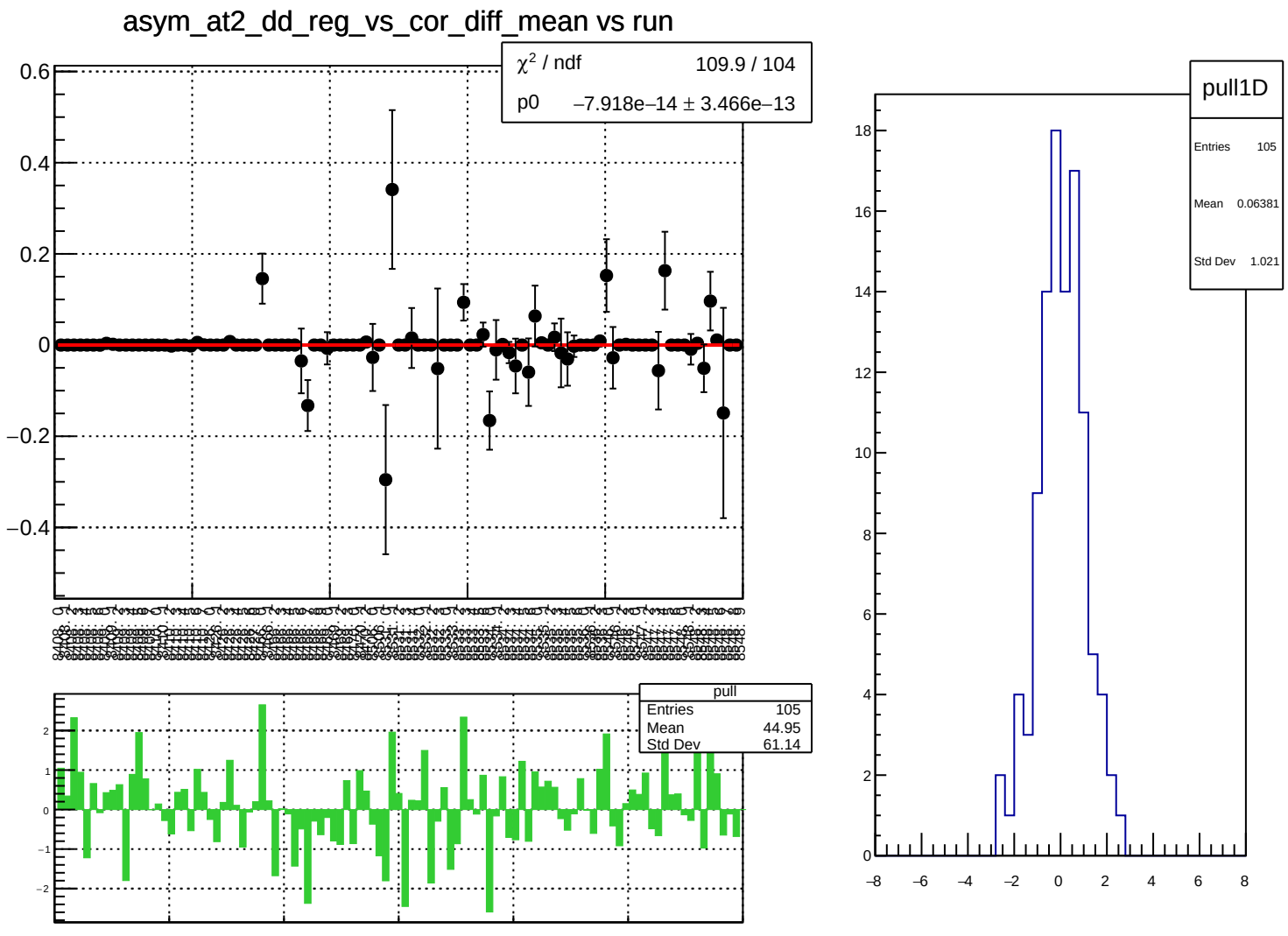

pull1D
Entries 105
Mean 0.006459
Std Dev 0.9915

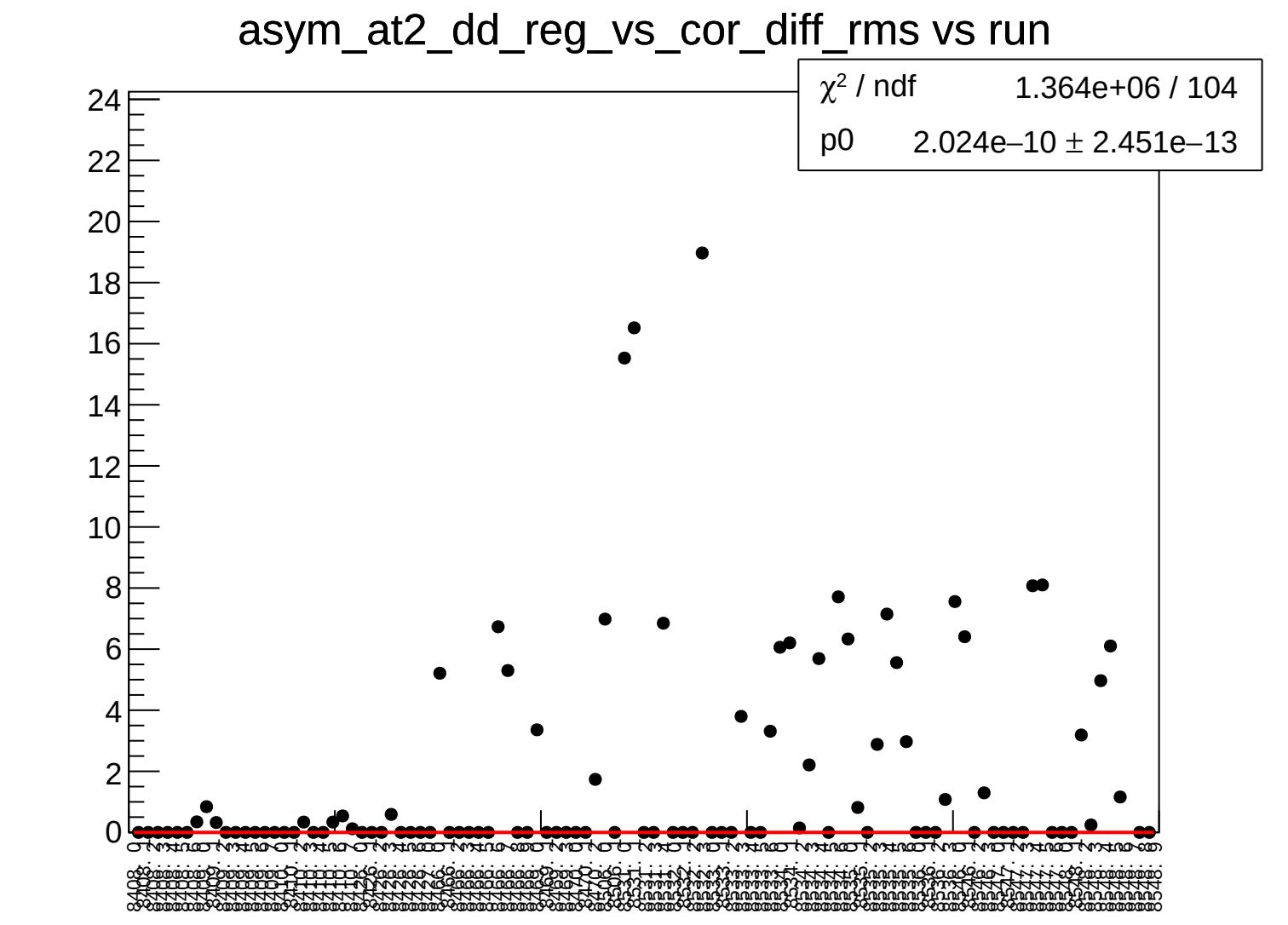

asym_at2_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 5.03e+05 / 104
p0 655.9 ± 0.528
3500
3000
2500
2000
1500
1000
500

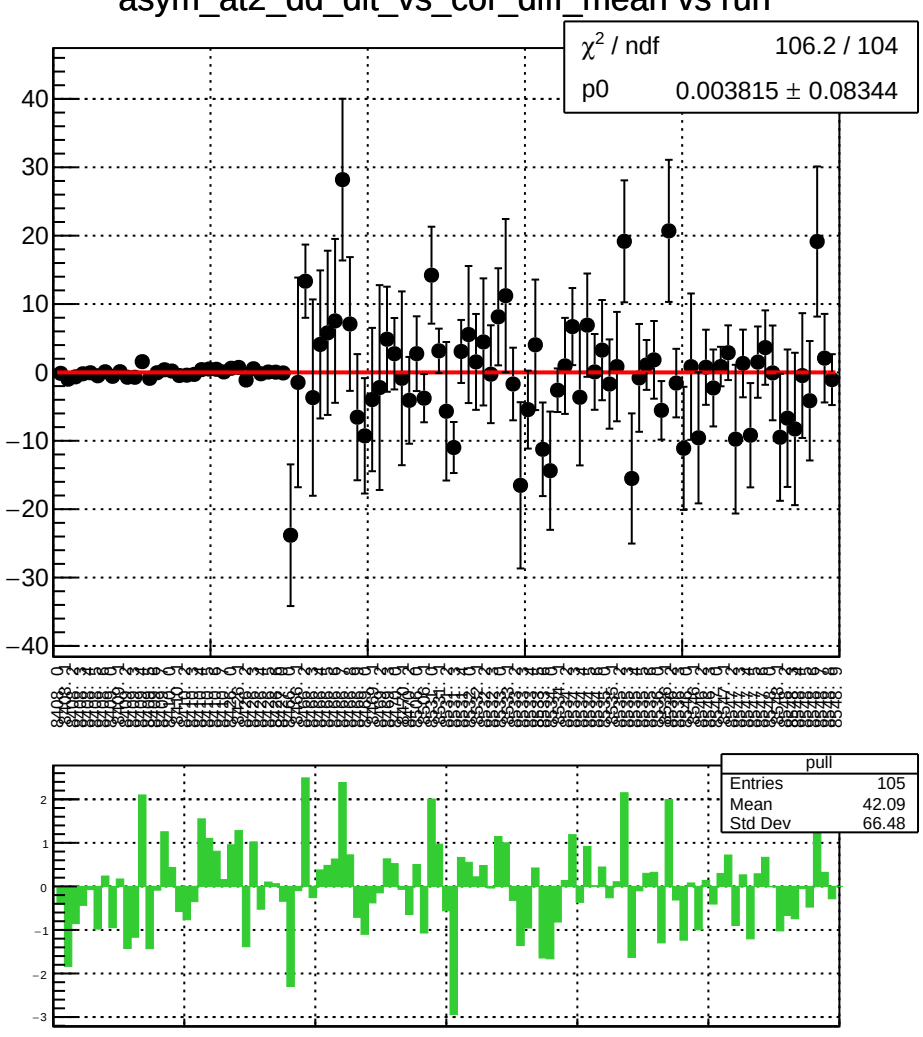

asym_at2_dd_mean vs run
×10^3
χ^2 / ndf 67.15 / 103
p0 −2195 ± 6060
1000
500
0
−500
−1000
pull
Entries 104
Mean 38.12
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

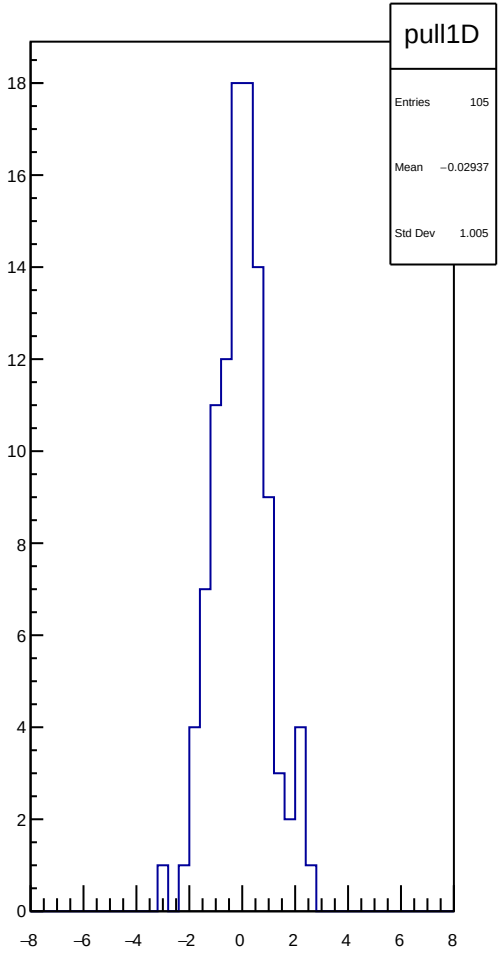

pull1D
Entries 104
Mean 0.02988
Std Dev 0.803
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

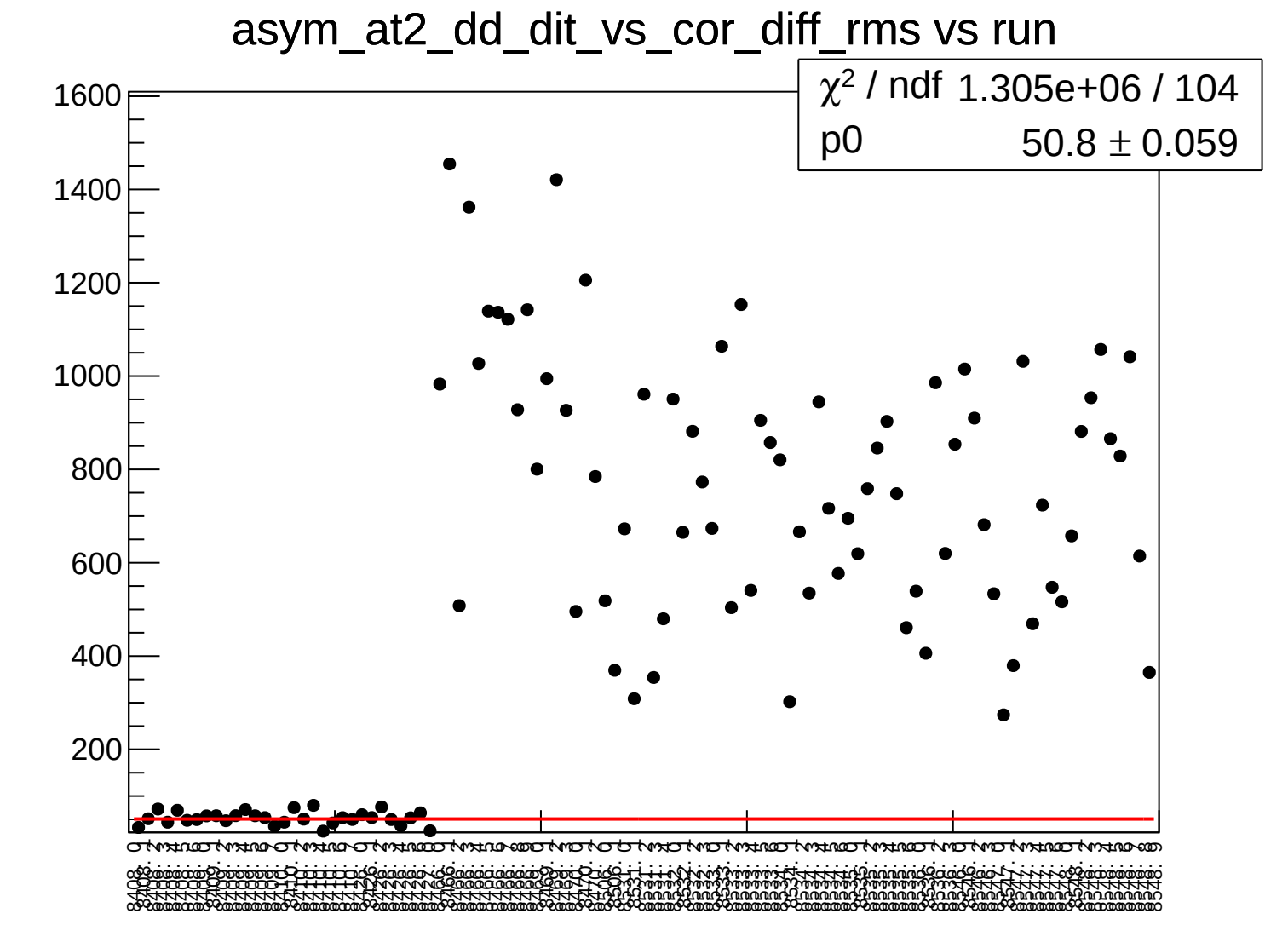

asym_at2_dd_rms vs run
χ² / ndf 1.124e+06 / 104
p0 4114 ± 4.284
35000
30000
25000
20000
15000
10000
5000

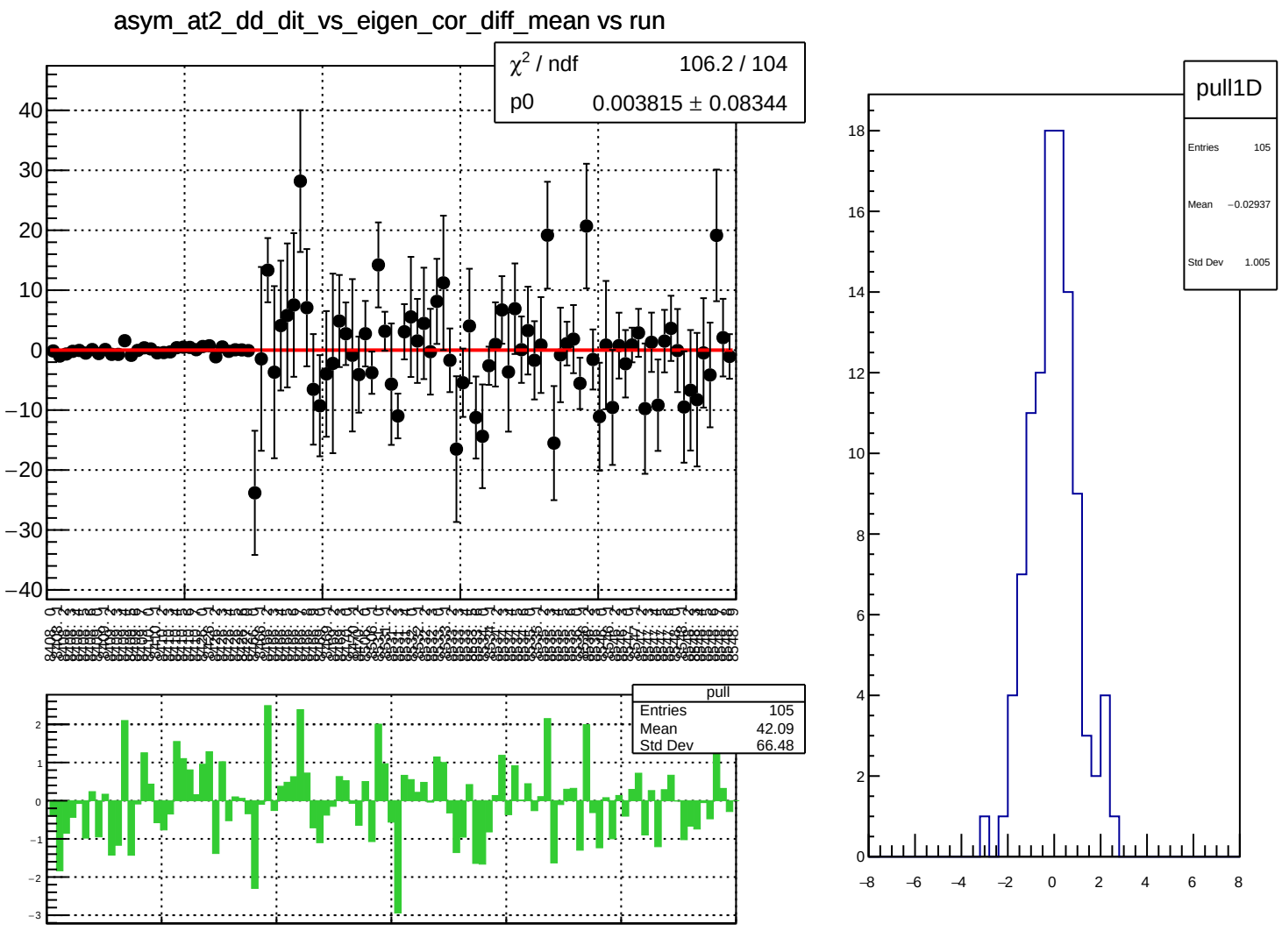

asym_at2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 109.9 / 104
p0 −7.918e−14 ± 3.466e−13
pull
Entries 105
Mean 44.95
Std Dev 61.14
pull1D
Entries 105
Mean 0.06381
Std Dev 1.021

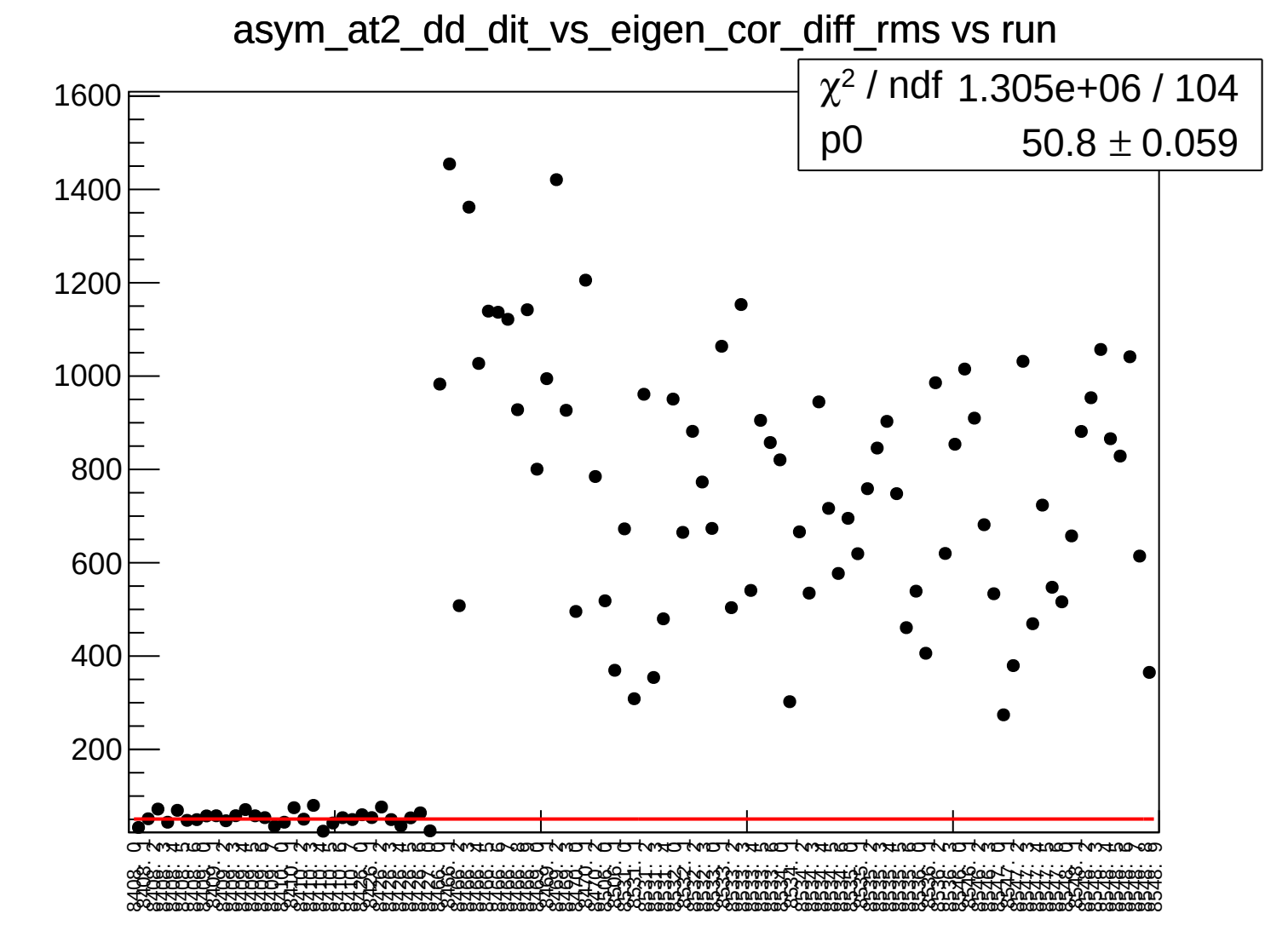

asym_at2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.364e+06 / 104
p0 2.024e−10 ± 2.451e−13
24
22
20
18
16
14
12
10
8
6
4
2
0

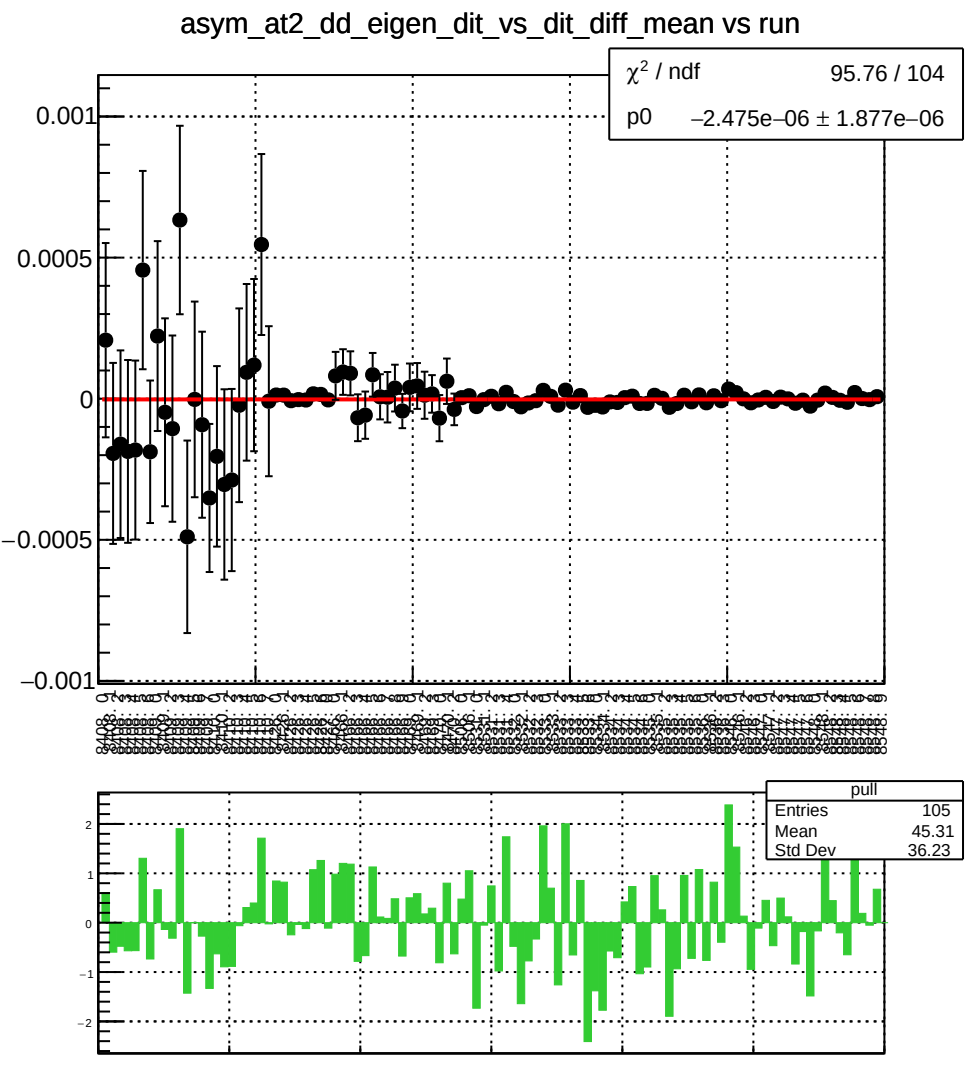

asym_at2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 106.2 / 104
p0 0.003815 ± 0.08344
pull
Entries 105
Mean 42.09
Std Dev 66.48

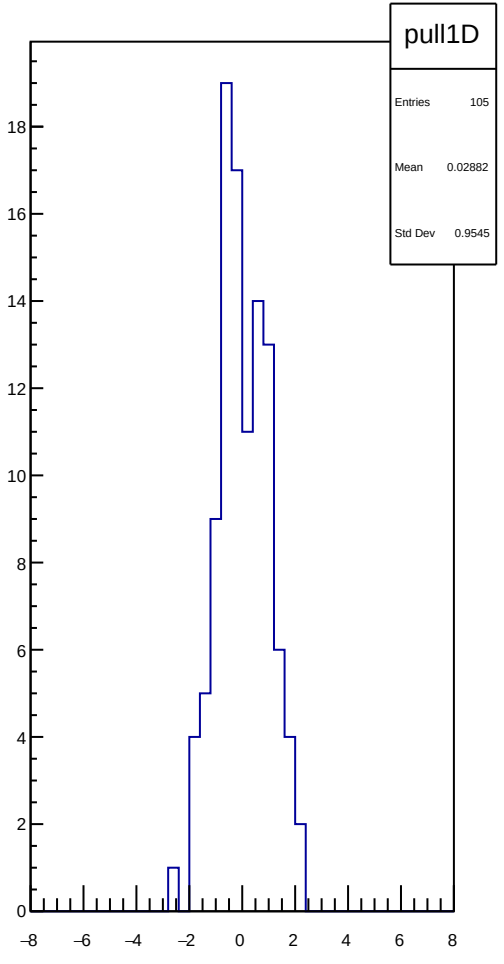

pull1D
Entries 105
Mean −0.02937
Std Dev 1.005

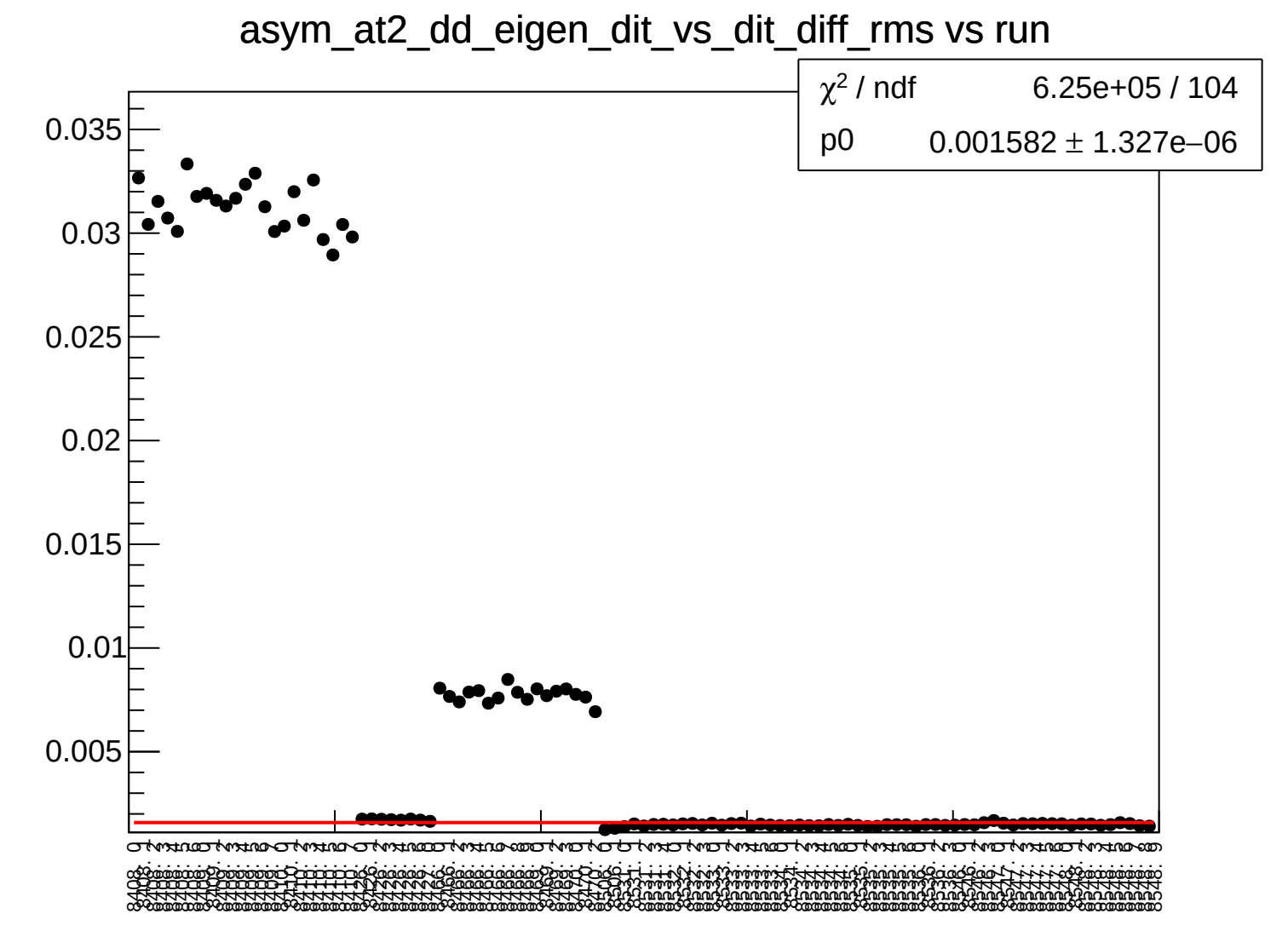

asym_at2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.305e+06 / 104
p0 50.8 ± 0.059
1600
1400
1200
1000
800
600
400
200

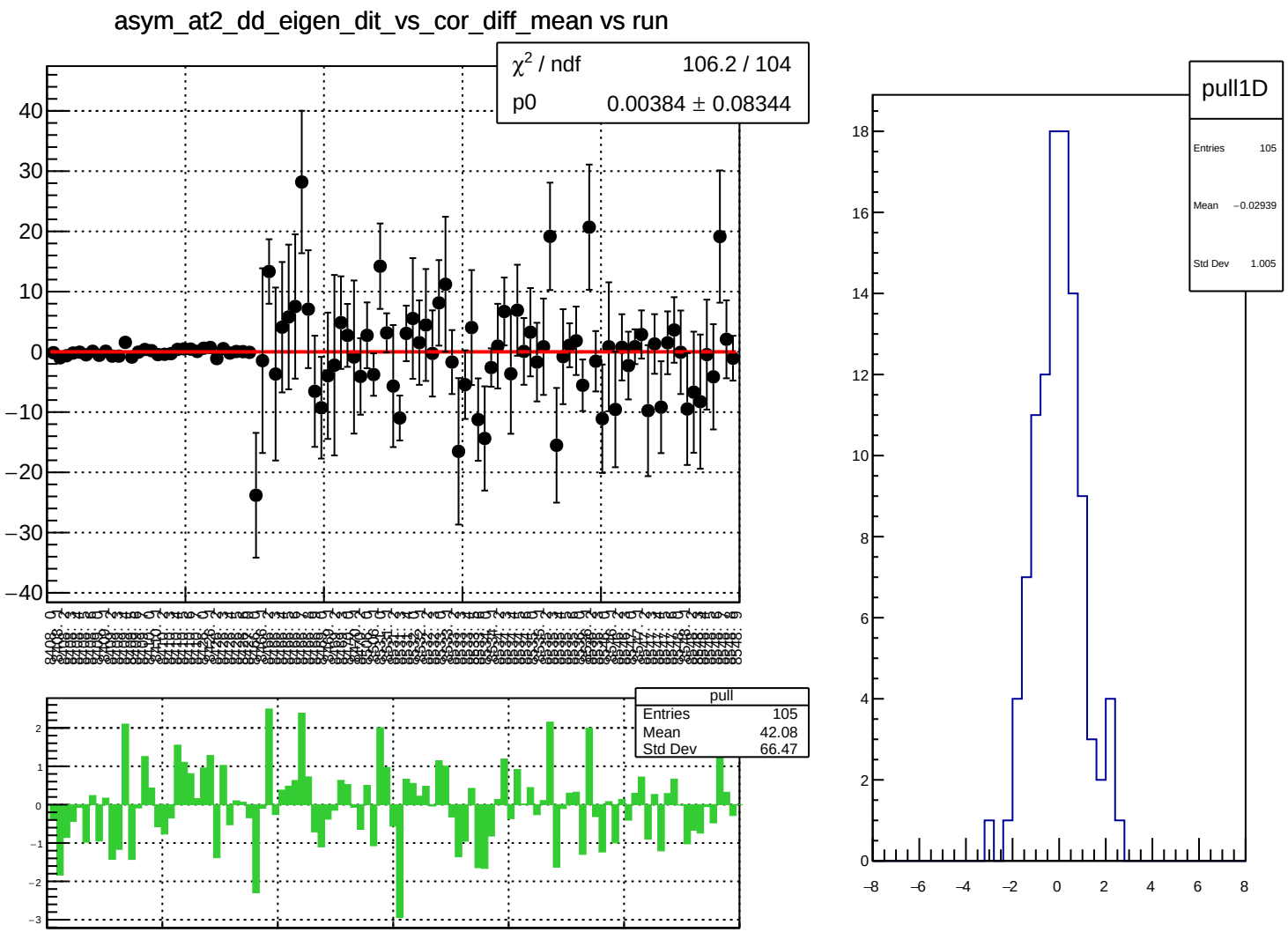

asym_at2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.2 / 104
p0 0.003815 ± 0.08344
pull
Entries 105
Mean 42.09
Std Dev 66.48
pull1D
Entries 105
Mean −0.02937
Std Dev 1.005

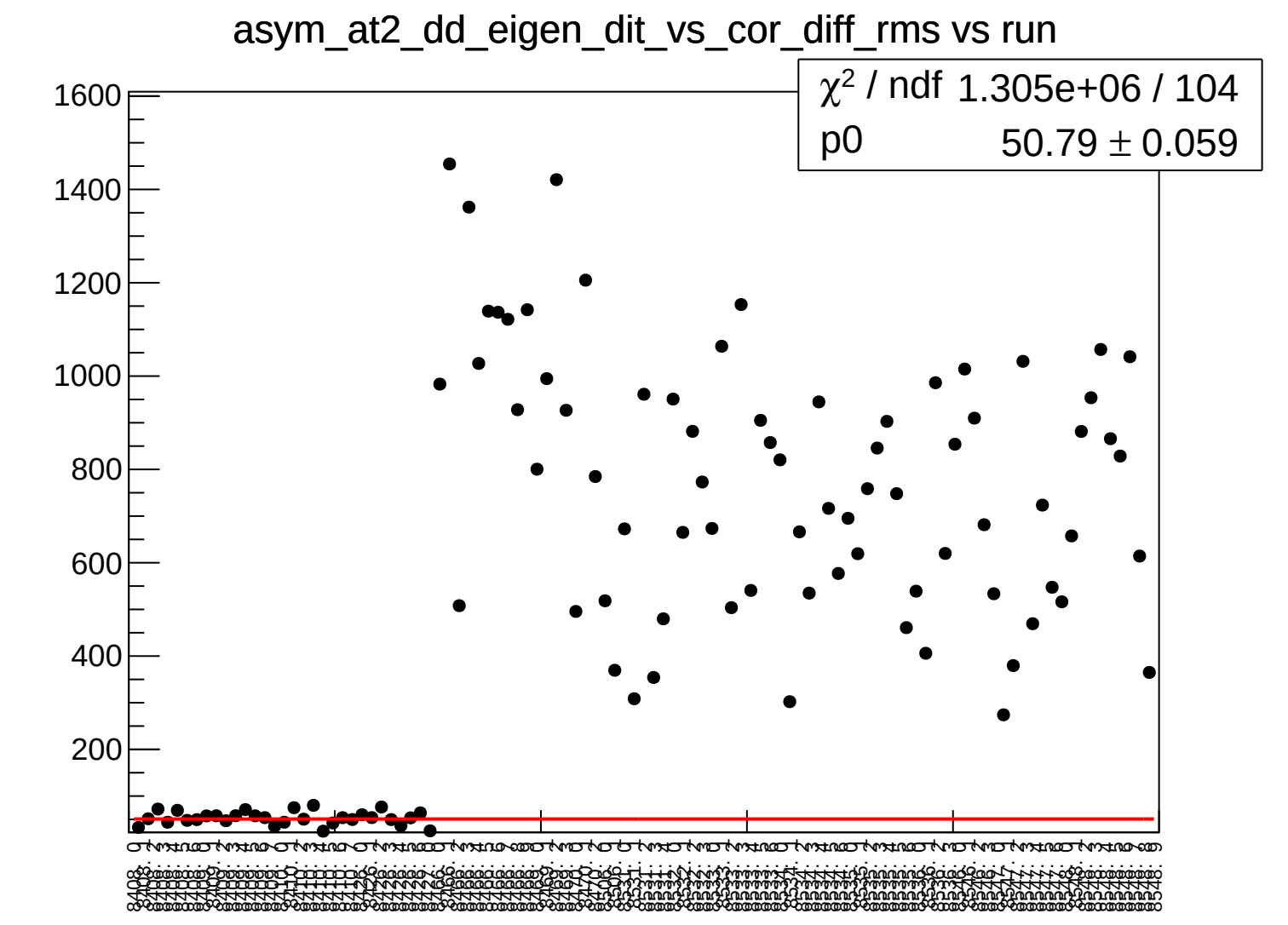

asym_at2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.305e+06 / 104
p0 50.8 ± 0.059
1600
1400
1200
1000
800
600
400
200

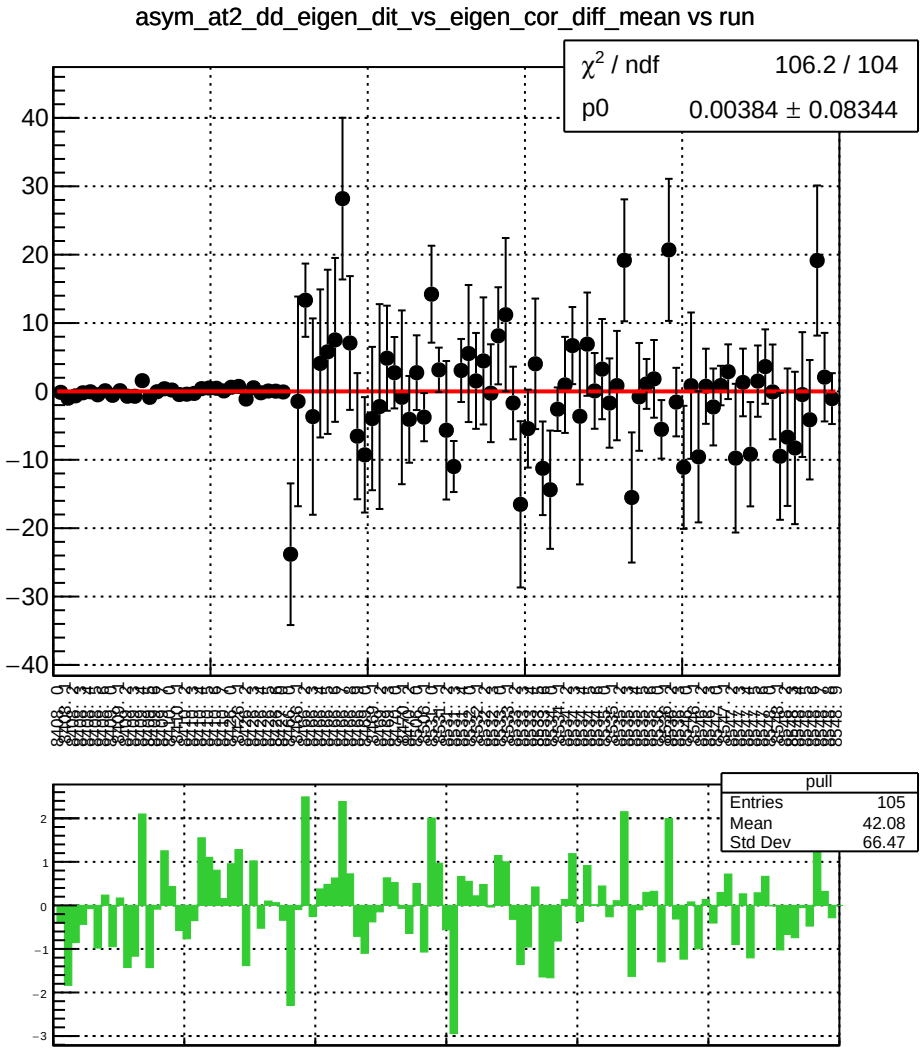

asym_at2_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 95.76 / 104
p0 −2.475e−06 ± 1.877e−06
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 105
Mean 45.31
Std Dev 36.23
2
1
0
−1
−2

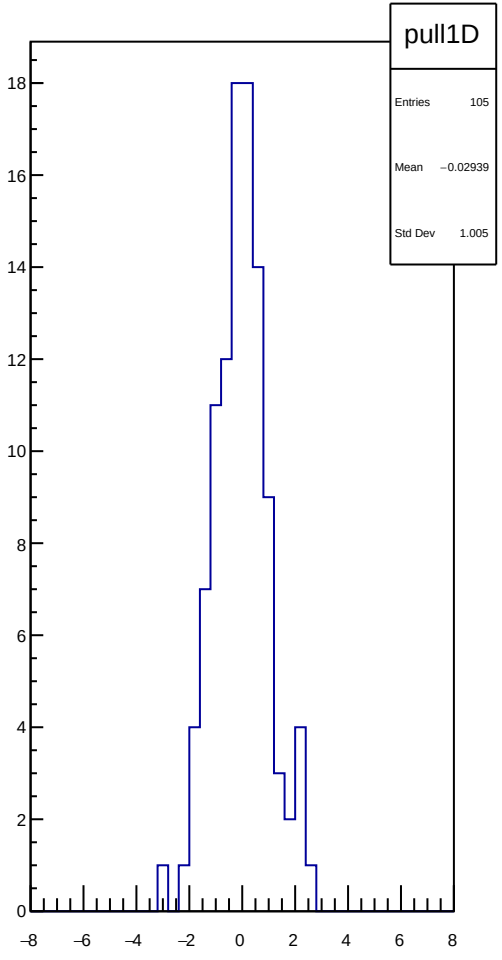

pull1D
Entries 105
Mean 0.02882
Std Dev 0.9545
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

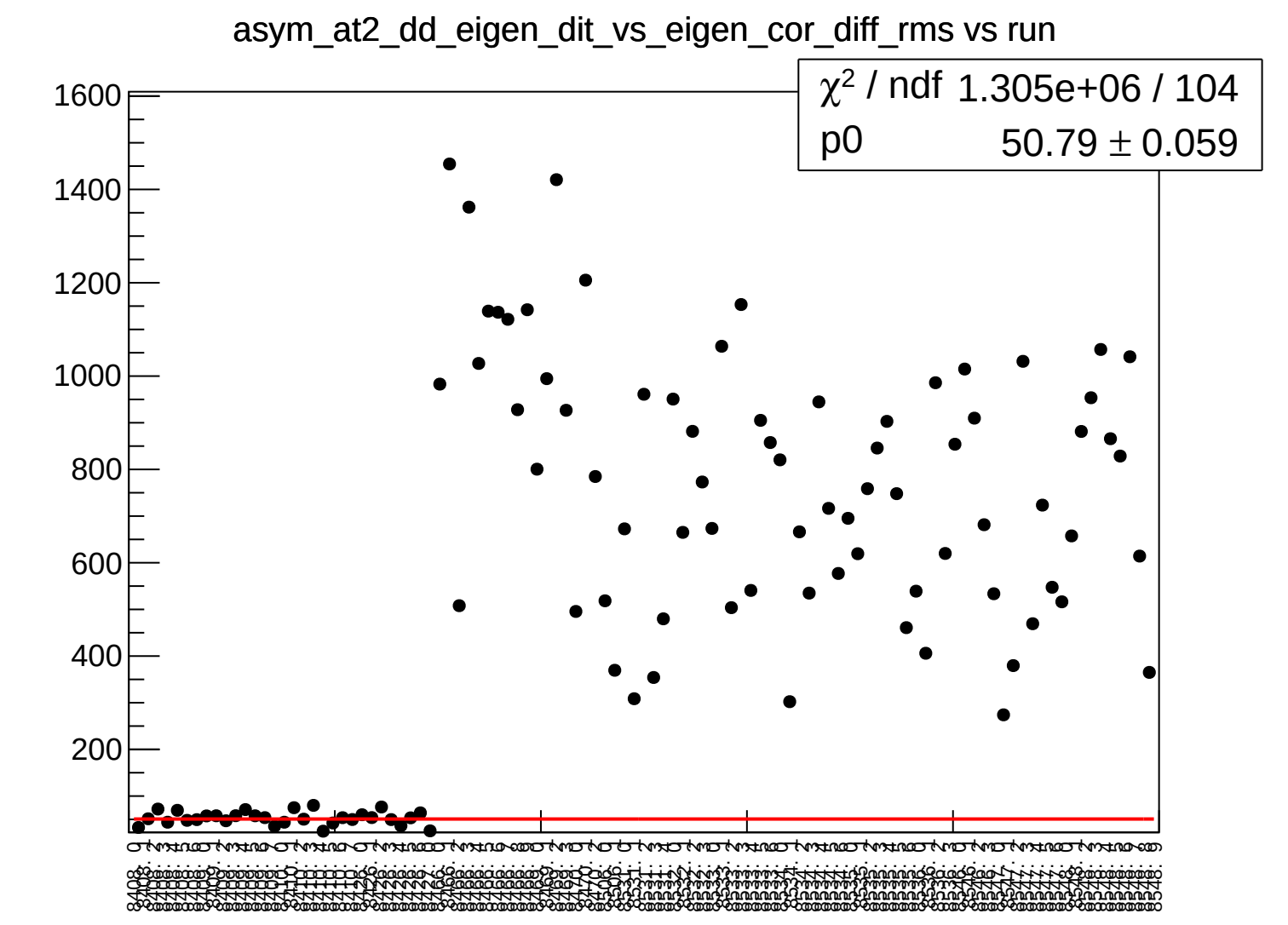

asym_at2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.25e+05 / 104
p0 0.001582 ± 1.327e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

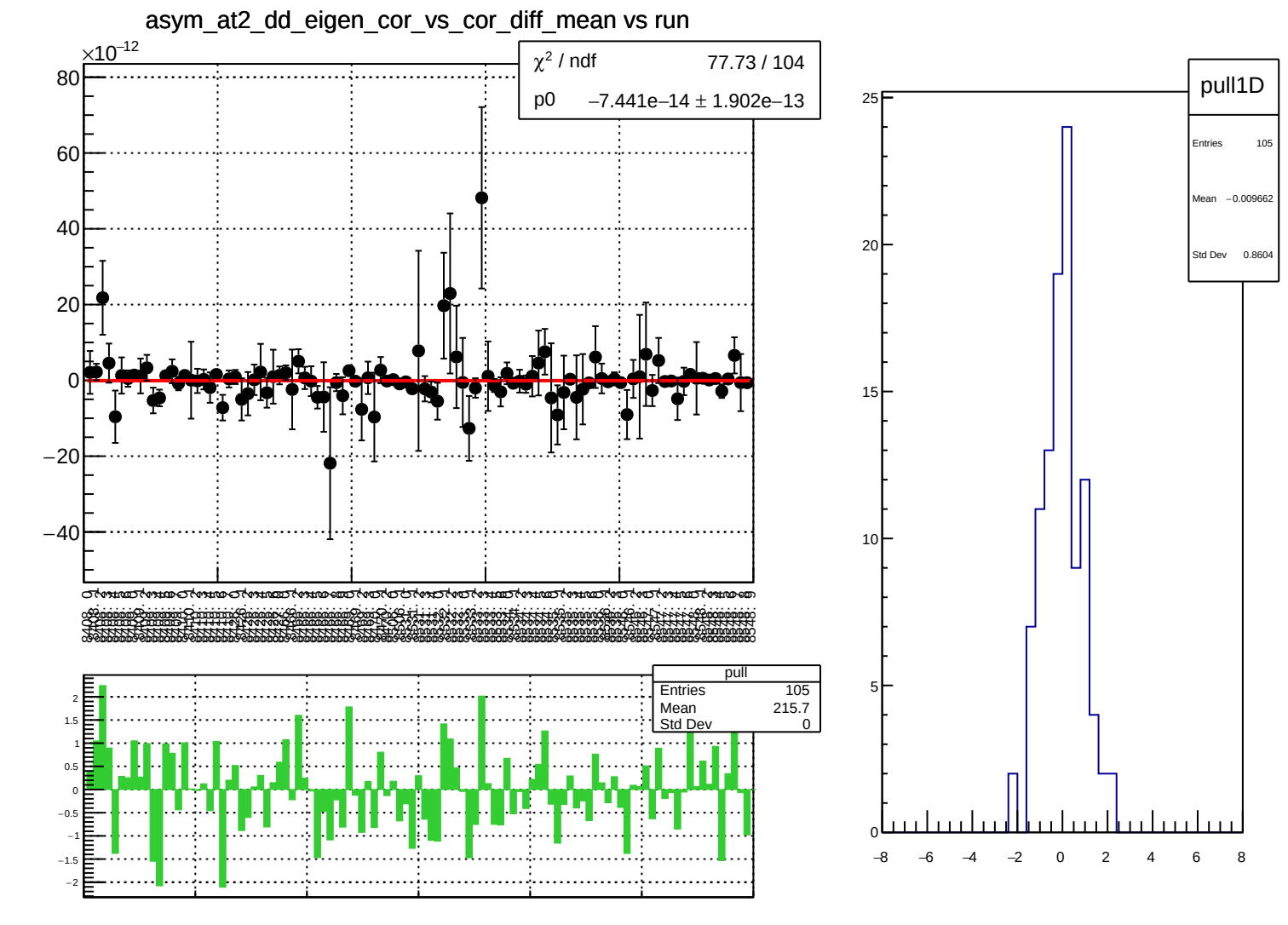

asym_at2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 106.2 / 104
p0 0.00384 ± 0.08344
pull
Entries 105
Mean 42.08
Std Dev 66.47
pull1D
Entries 105
Mean −0.02939
Std Dev 1.005

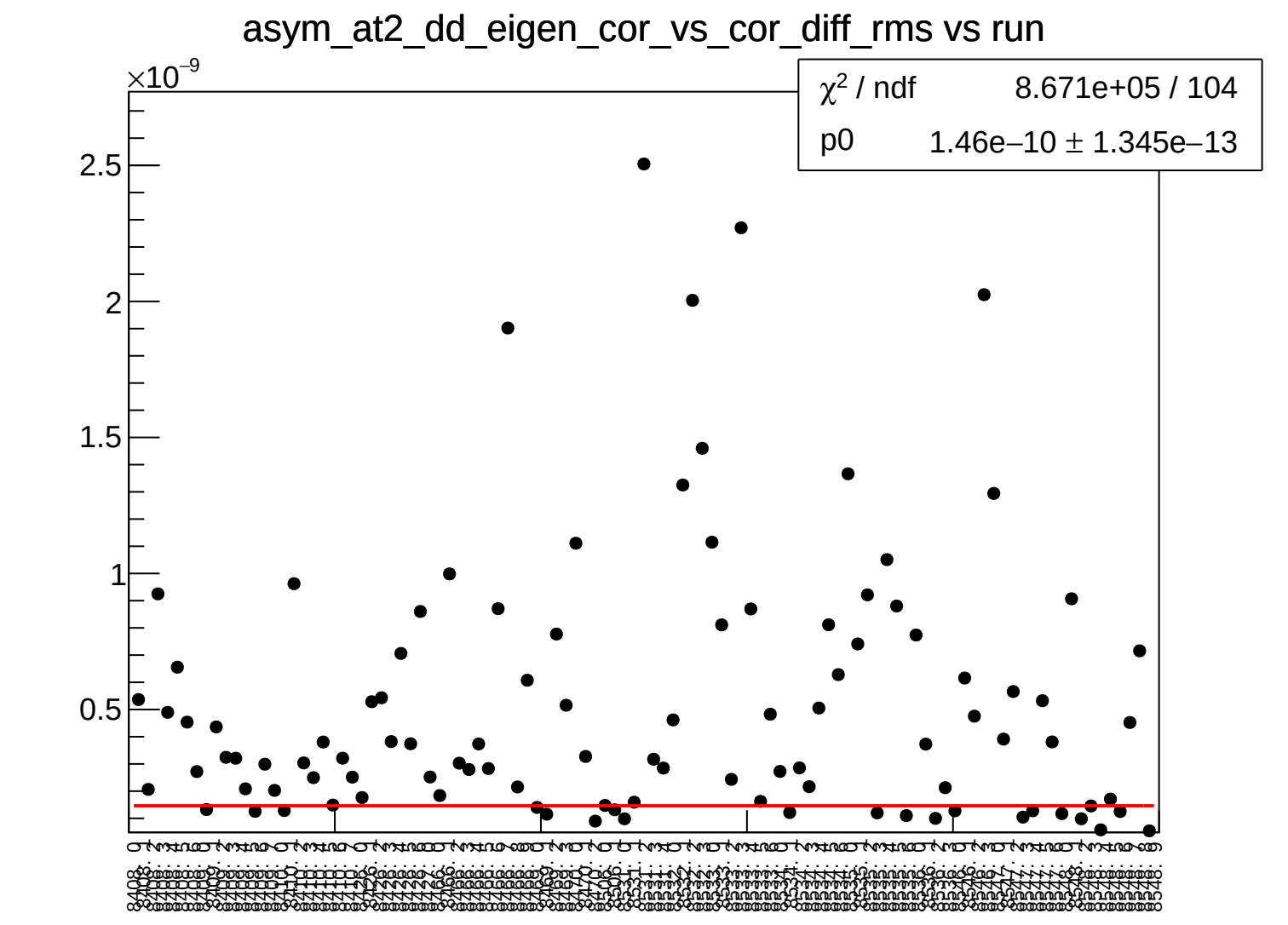

asym_at2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.305e+06 / 104
p0 50.79 ± 0.059
1600
1400
1200
1000
800
600
400
200

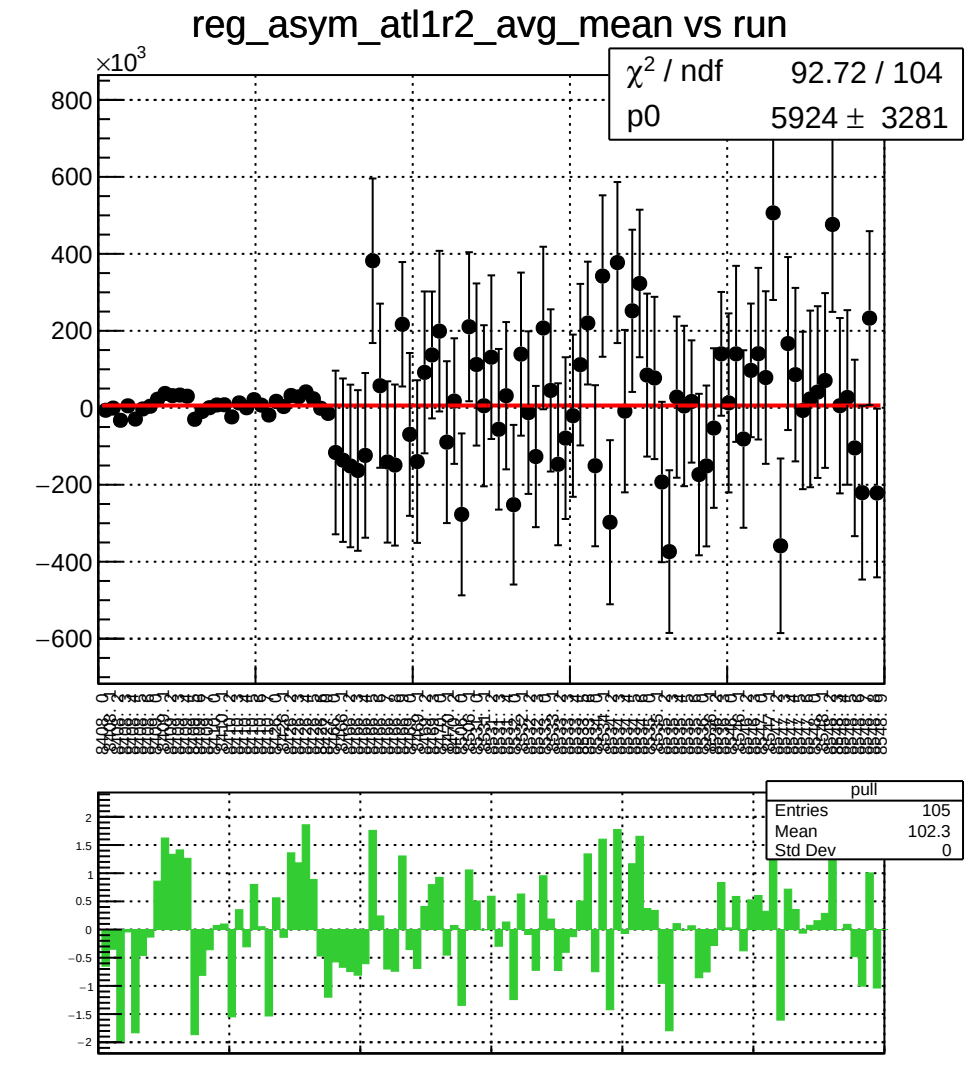

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.2 / 104
p0 0.00384 ± 0.08344
pull
Entries 105
Mean 42.08
Std Dev 66.47

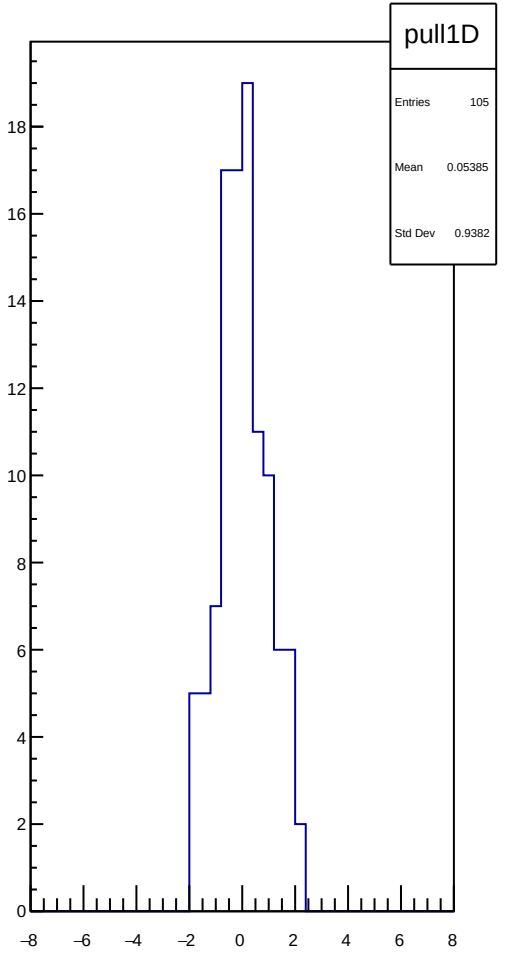

pull1D
Entries 105
Mean −0.02939
Std Dev 1.005

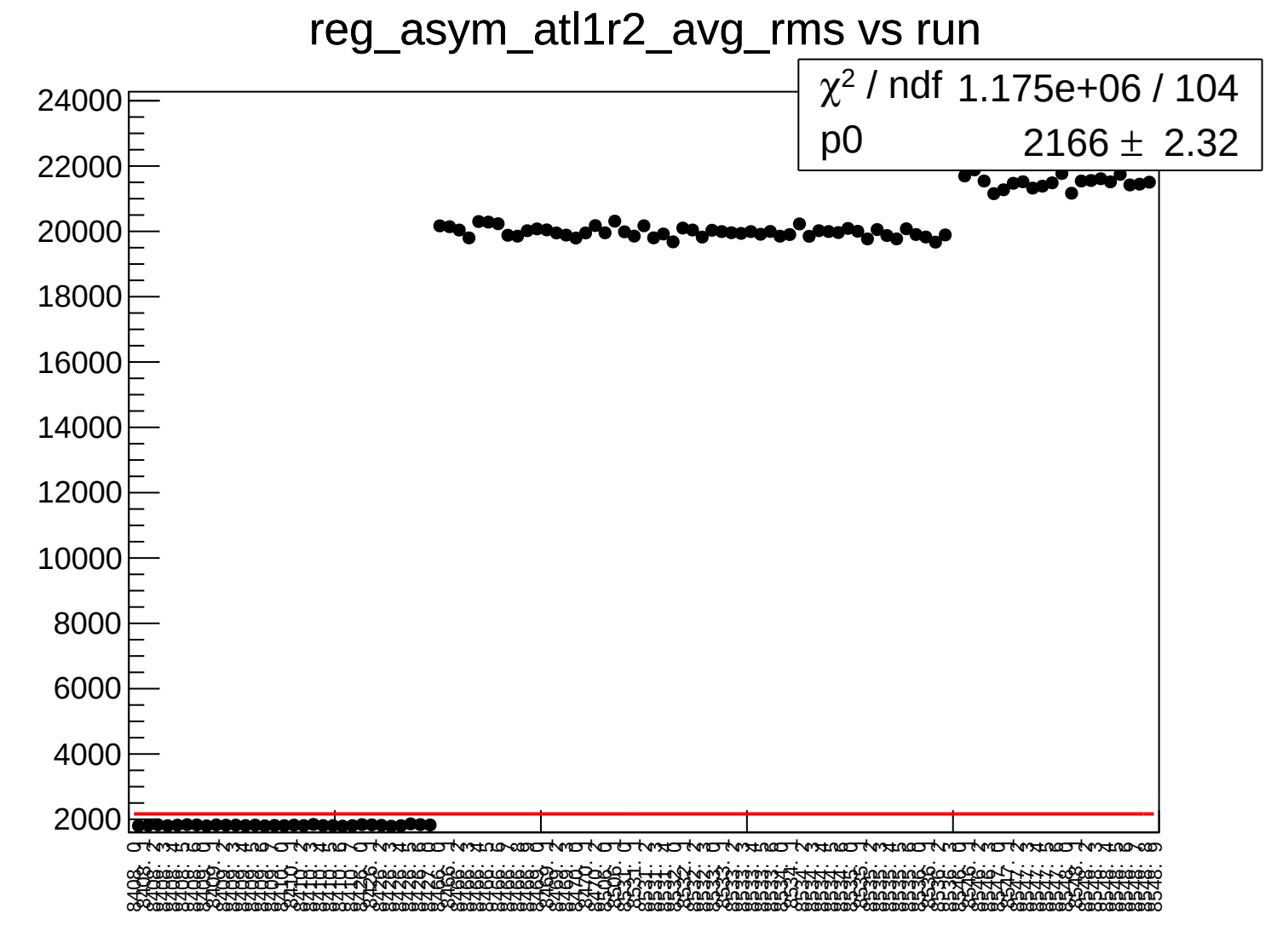

asym_at2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.305e+06 / 104
p0 50.79 ± 0.059
1600
1400
1200
1000
800
600
400
200

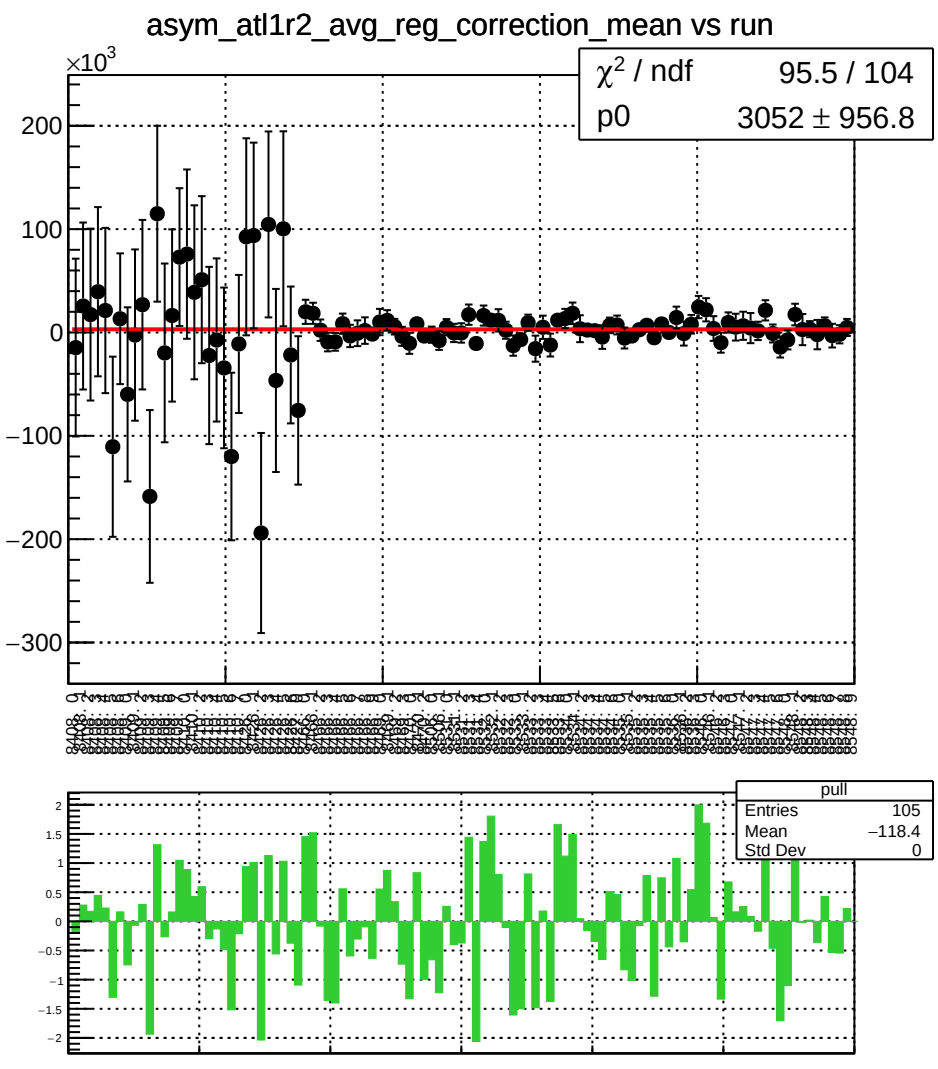

asym_at2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.73 / 104
p0 −7.441e−14 ± 1.902e−13
pull
Entries 105
Mean 215.7
Std Dev 0
pull1D
Entries 105
Mean −0.009662
Std Dev 0.8604

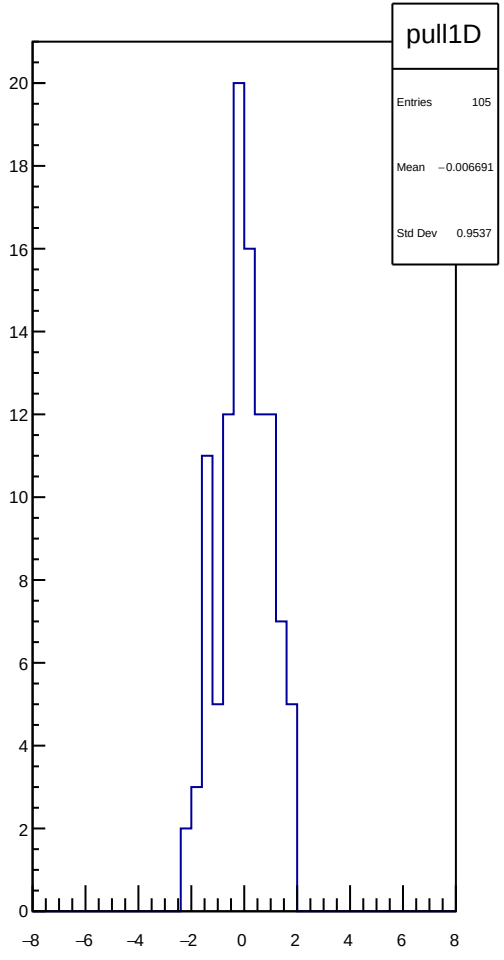

asym_at2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.671e+05 / 104
p0 1.46e−10 ± 1.345e−13
2.5
2
1.5
1
0.5

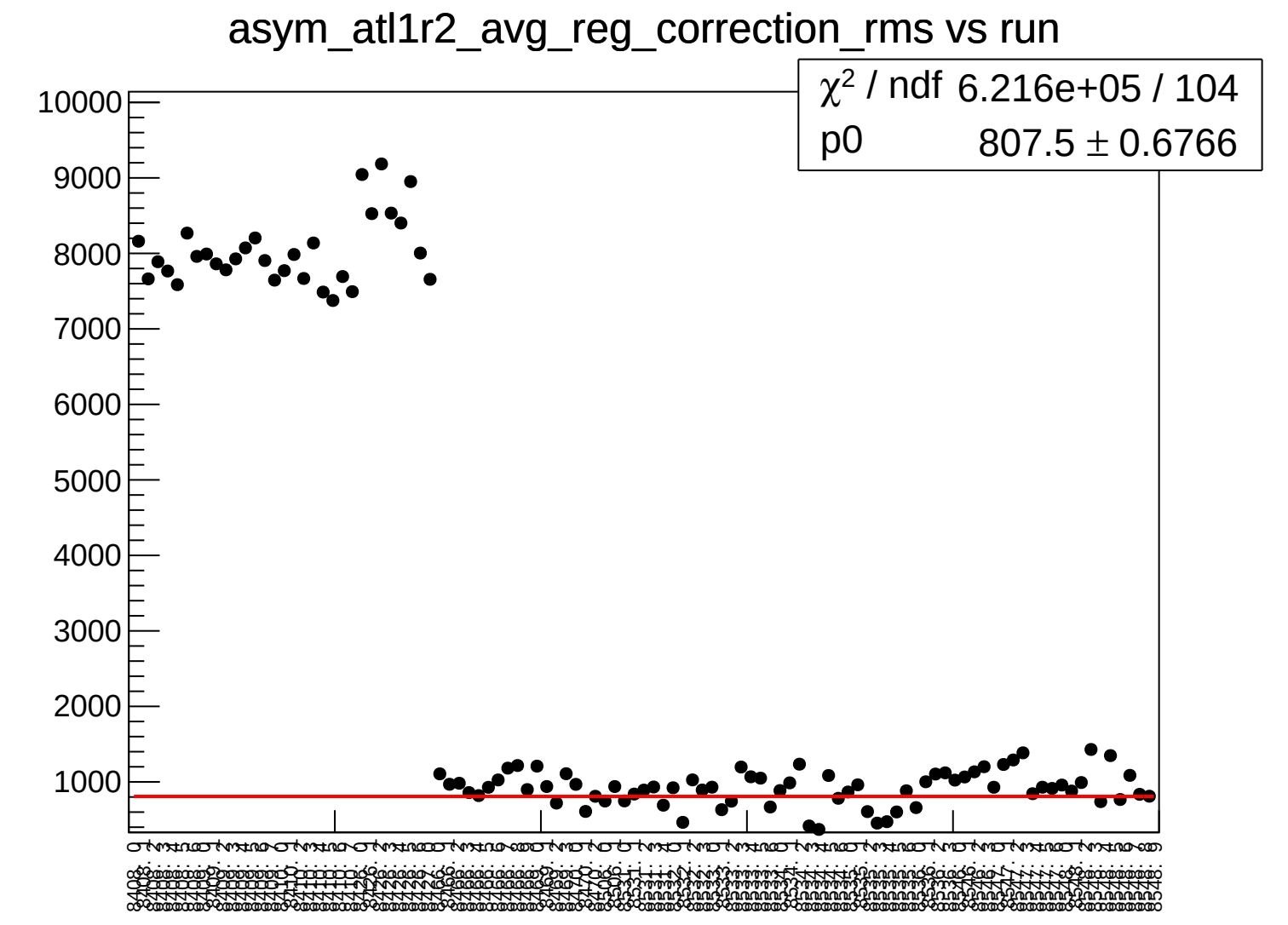

reg_asym_atl1r2_avg_mean vs run
×10^3
800
600
400
200
0
−200
−400
−600
χ² / ndf 92.72 / 104
p0 5924 ± 3281
pull
Entries 105
Mean 102.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

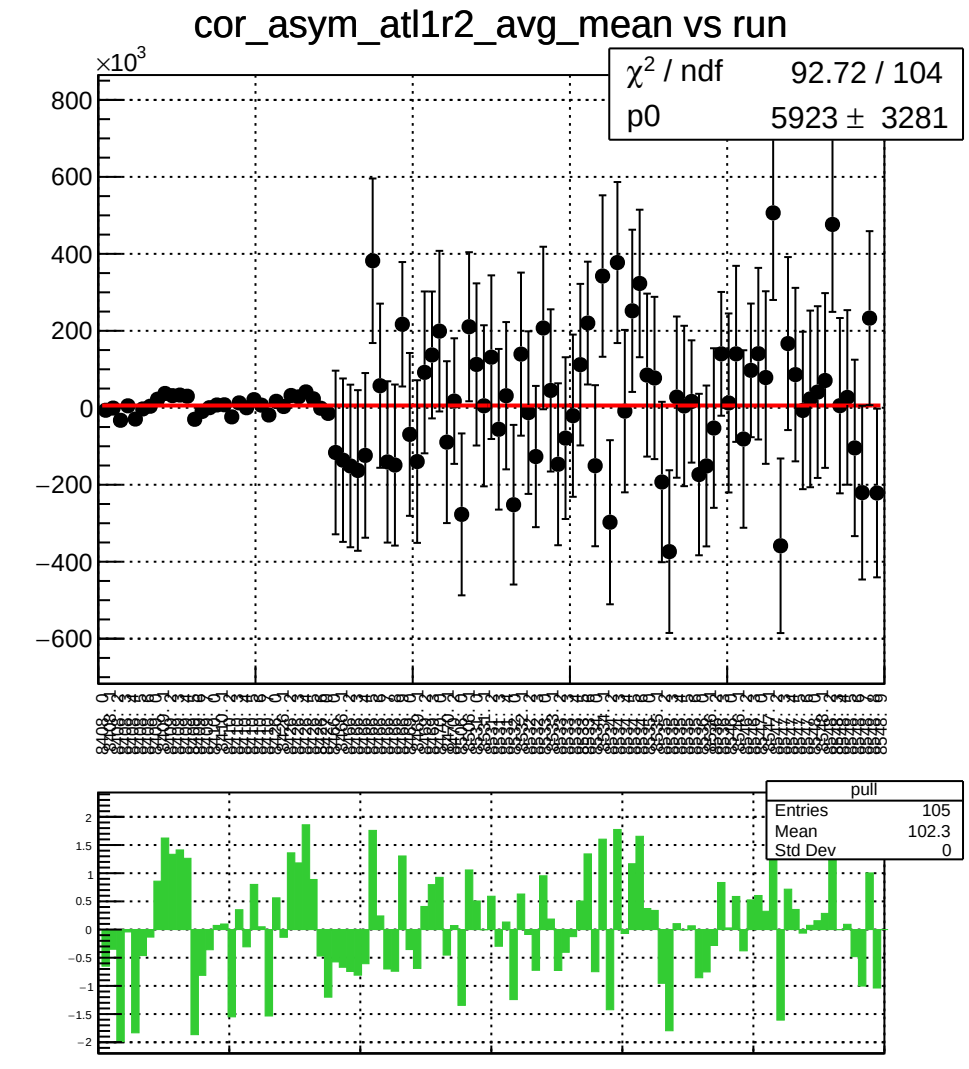

pull1D
Entries 105
Mean 0.05385
Std Dev 0.9382
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

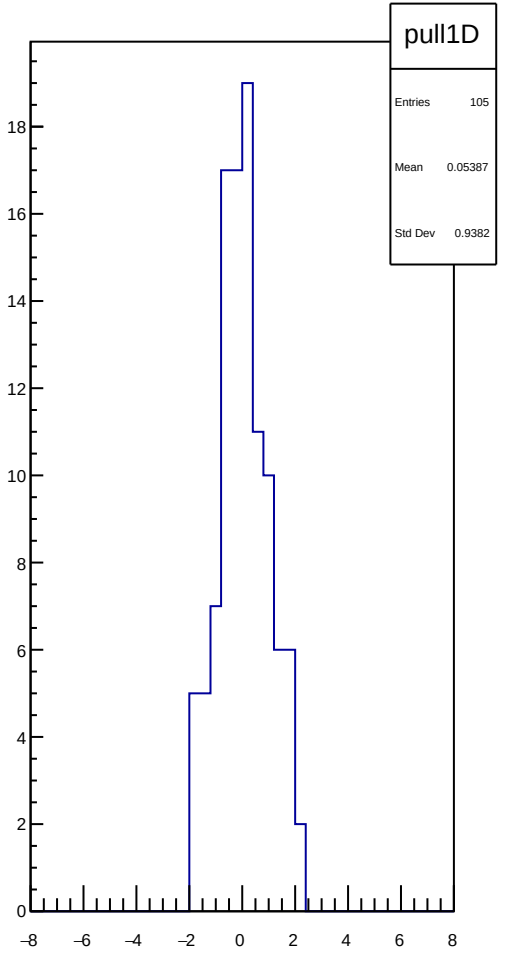

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 1.175e+06 / 104
p0 2166 ± 2.32
24000
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000

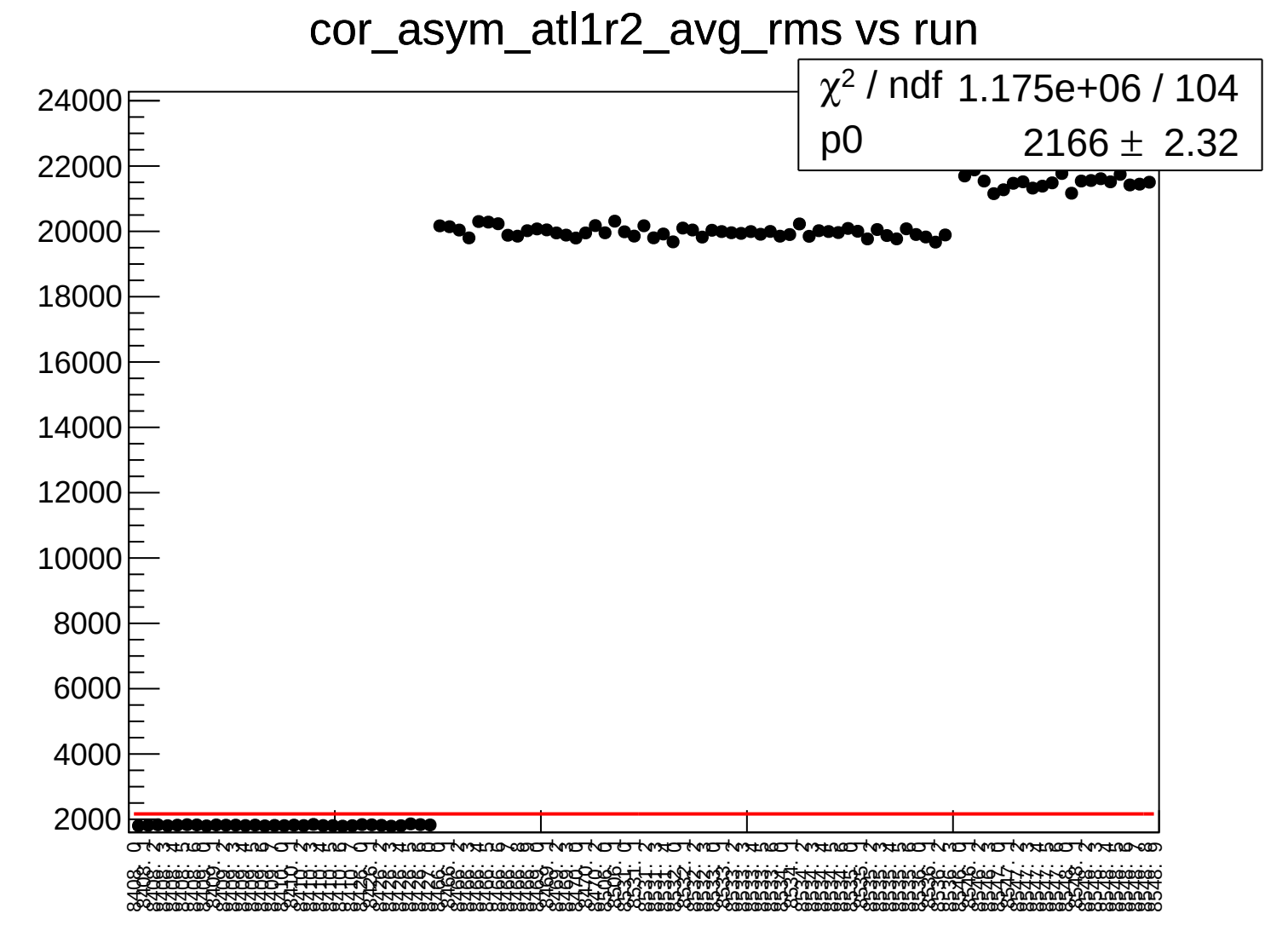

asym_atl1r2_avg_reg_correction_mean vs run
×10^3
χ² / ndf 95.5 / 104
p0 3052 ± 956.8
200
100
0
−100
−200
−300
pull
Entries 105
Mean −118.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

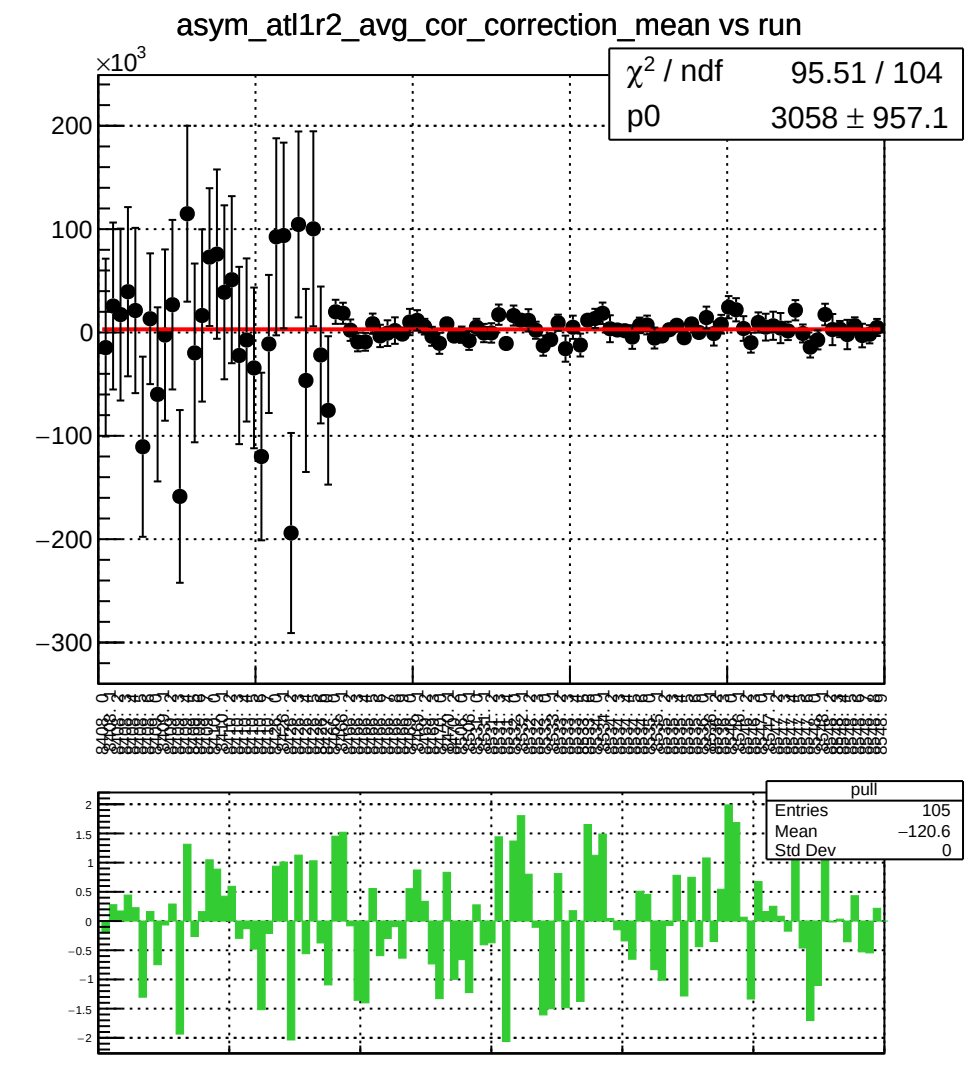

pull1D
Entries 105
Mean −0.006691
Std Dev 0.9537
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

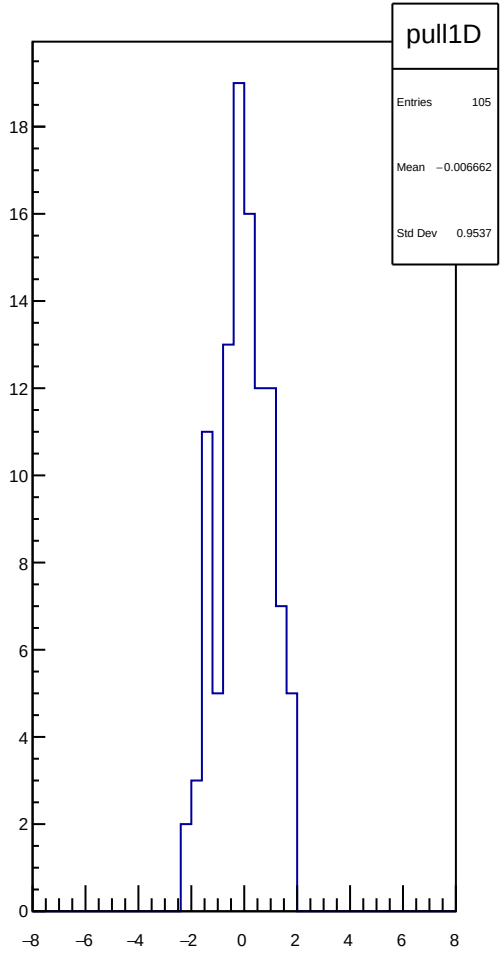

asym_atl1r2_avg_reg_correction_rms vs run
χ² / ndf 6.216e+05 / 104
p0 807.5 ± 0.6766
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000

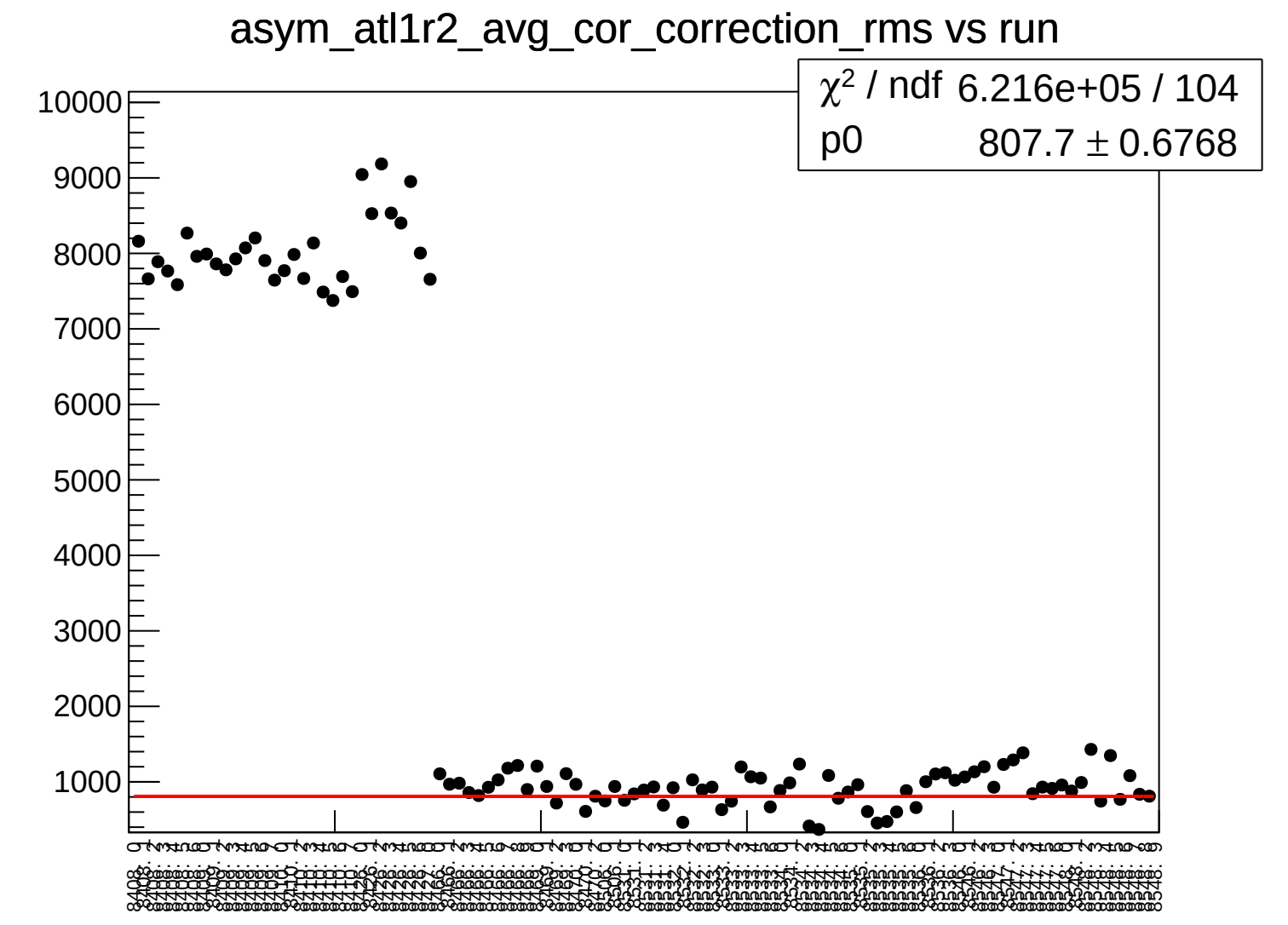

cor_asym_atl1r2_avg_mean vs run
×10^3
800
600
400
200
0
−200
−400
−600
χ² / ndf 92.72 / 104
p0 5923 ± 3281
pull
Entries 105
Mean 102.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

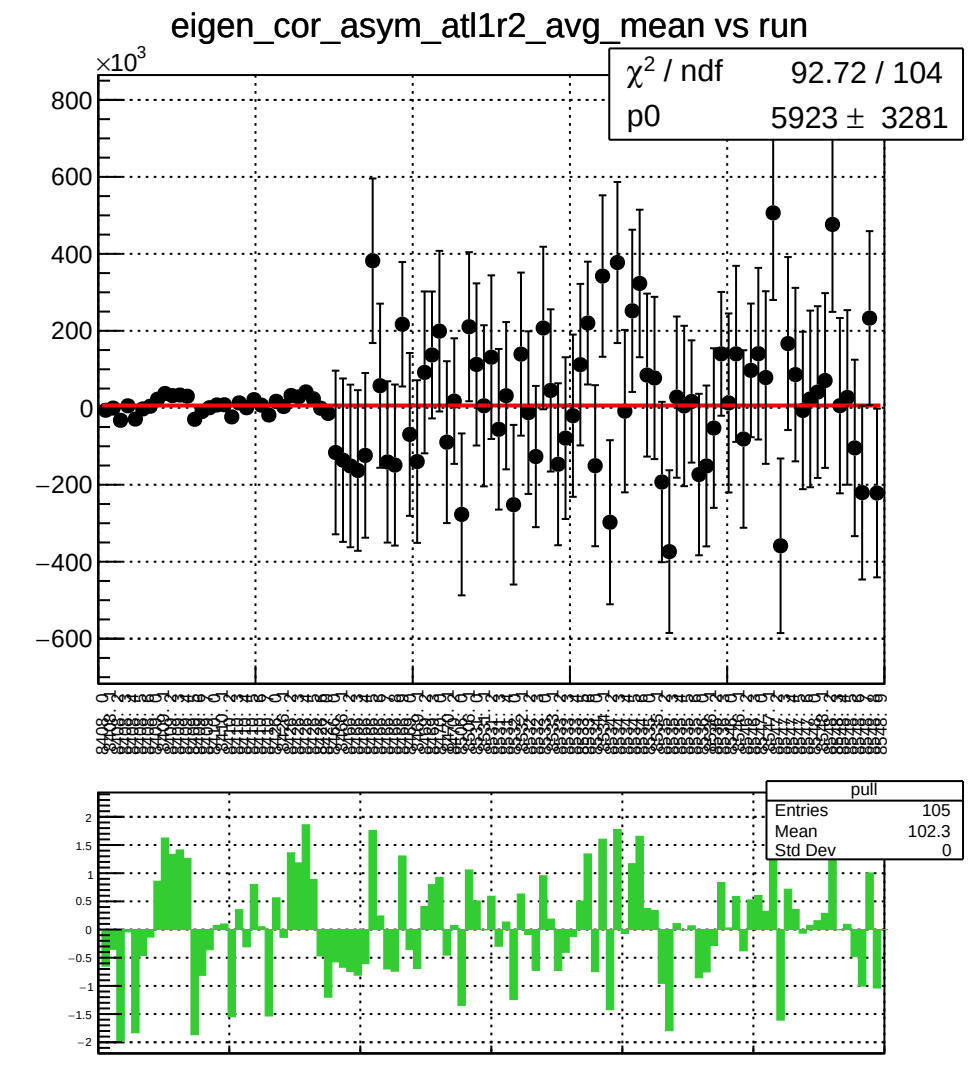

pull1D
Entries 105
Mean 0.05387
Std Dev 0.9382
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

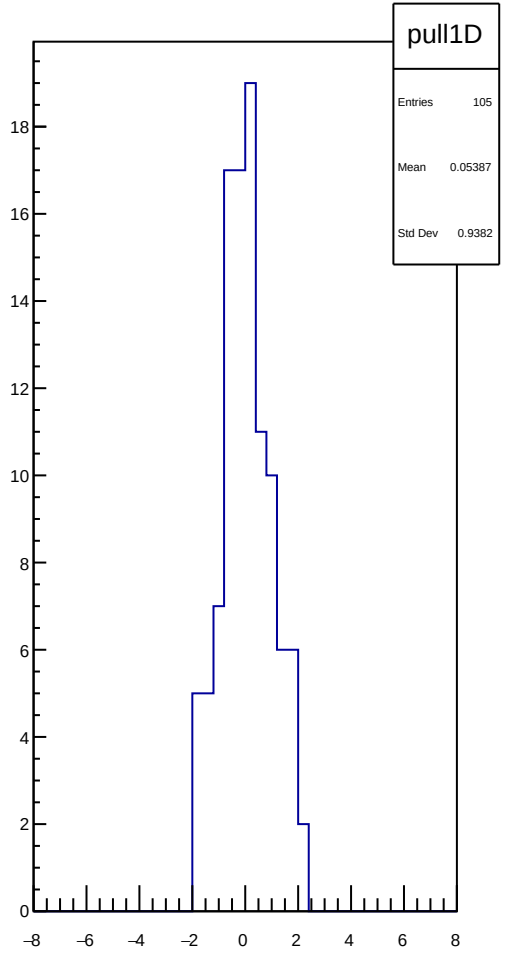

cor_asym_atl1r2_avg_rms vs run
χ² / ndf 1.175e+06 / 104
p0 2166 ± 2.32
24000
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000

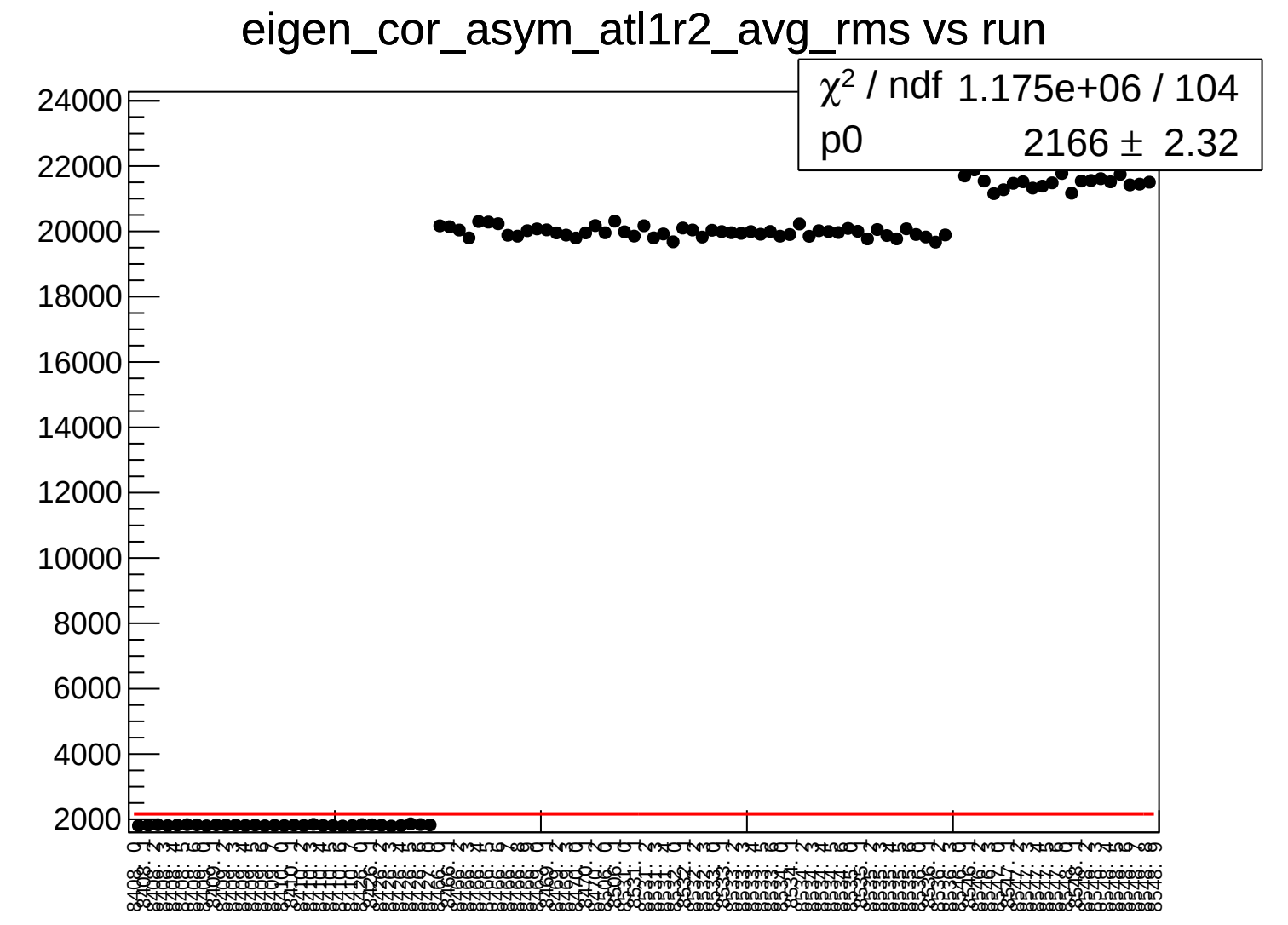

asym_atl1r2_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 95.51 / 104
p0 3058 ± 957.1
200
100
0
−100
−200
−300
pull
Entries 105
Mean −120.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

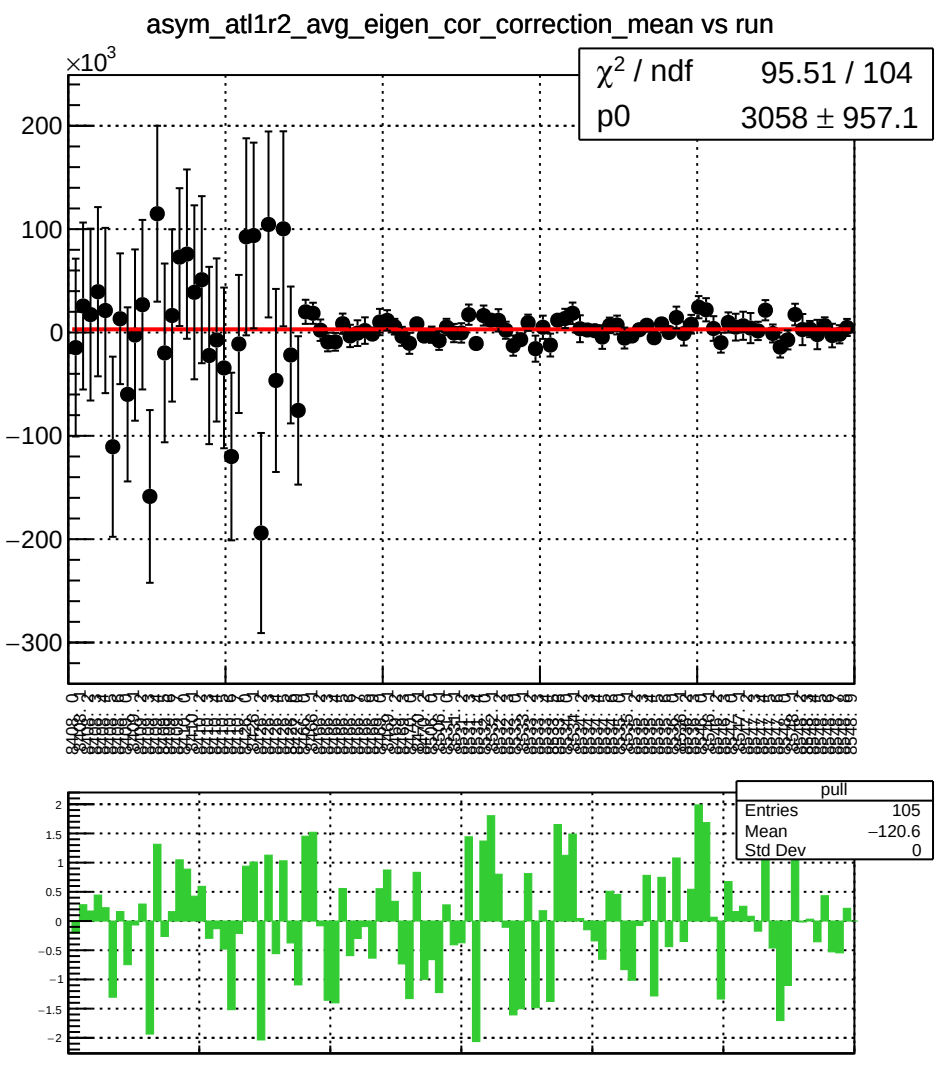

pull1D
Entries 105
Mean −0.006662
Std Dev 0.9537
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

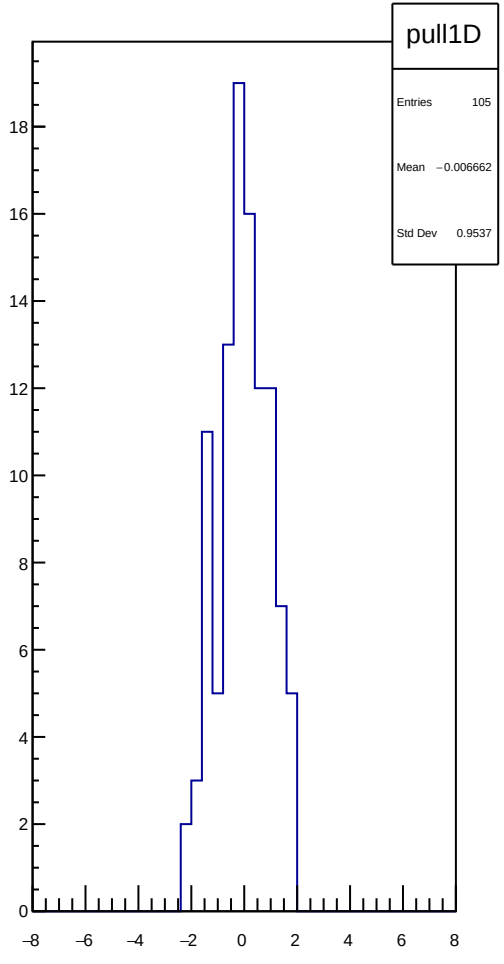

asym_atl1r2_avg_cor_correction_rms vs run
χ² / ndf 6.216e+05 / 104
p0 807.7 ± 0.6768
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000

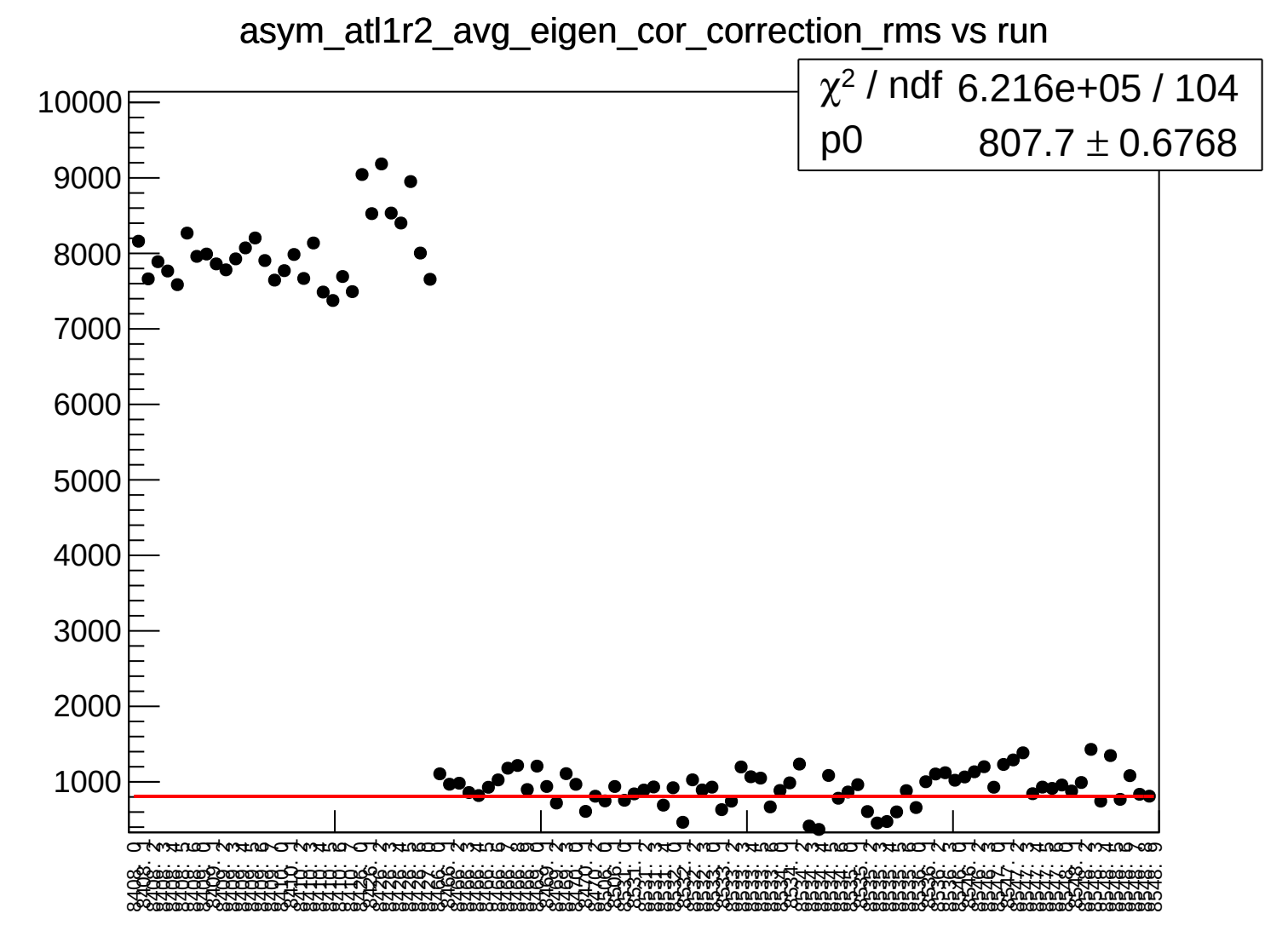

eigen_cor_asym_atl1r2_avg_mean vs run
×10^3
χ^2 / ndf 92.72 / 104
p0 5923 ± 3281
pull
Entries 105
Mean 102.3
Std Dev 0

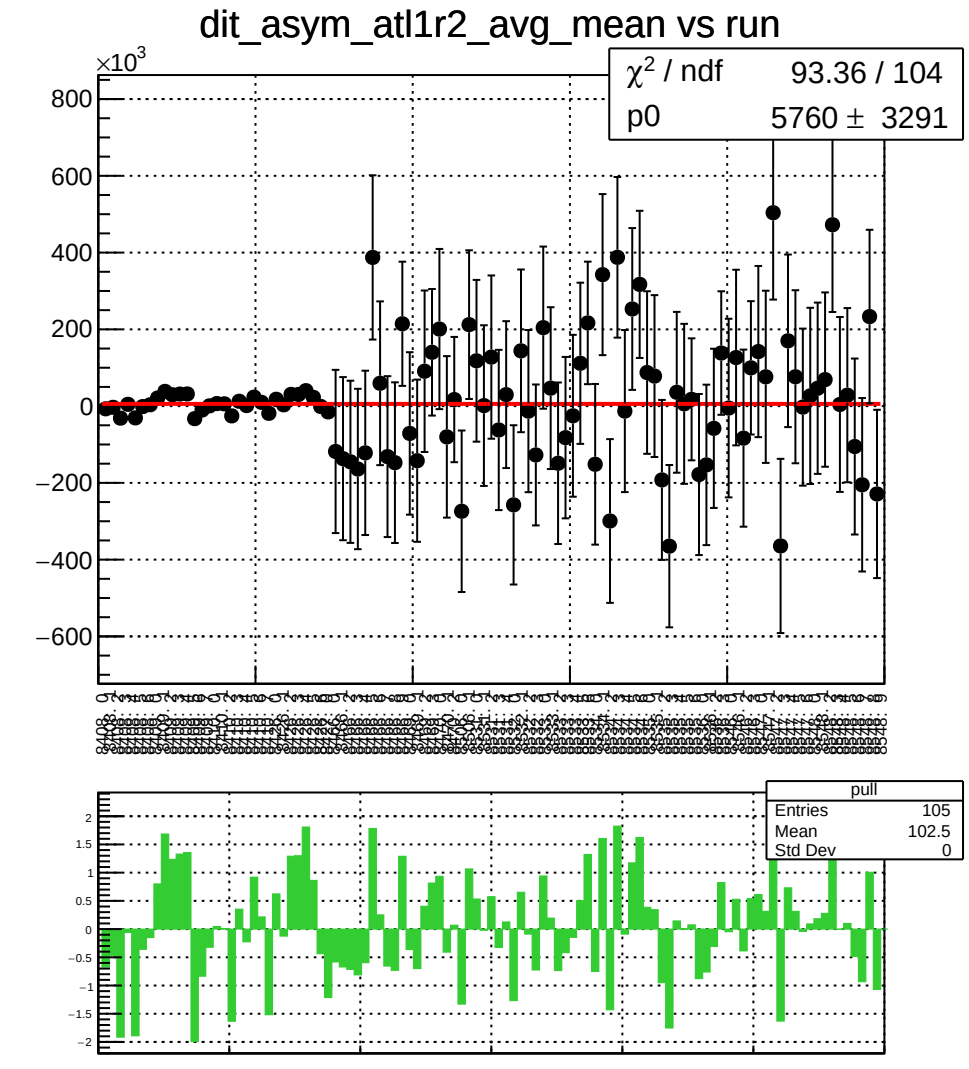

pull1D
Entries 105
Mean 0.05387
Std Dev 0.9382

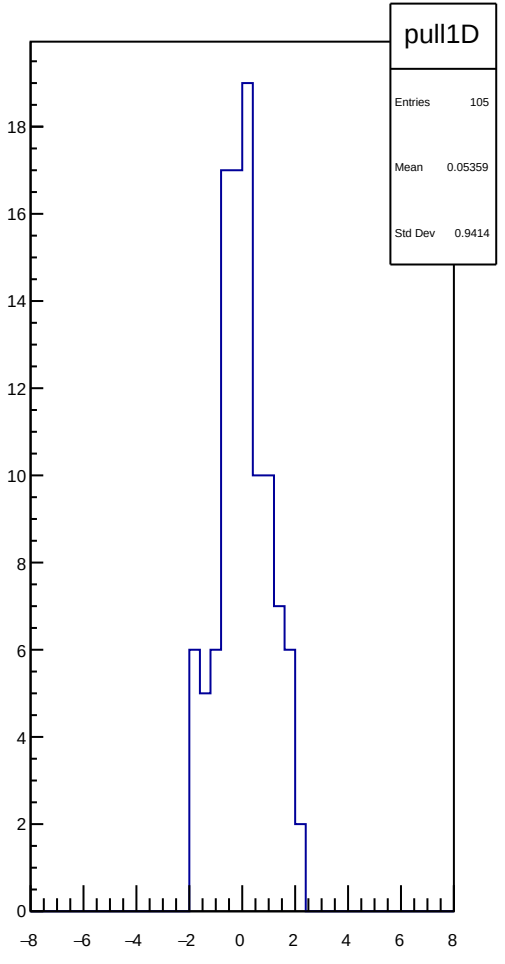

eigen_cor_asym_atl1r2_avg_rms vs run
χ² / ndf 1.175e+06 / 104
p0 2166 ± 2.32
24000
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000

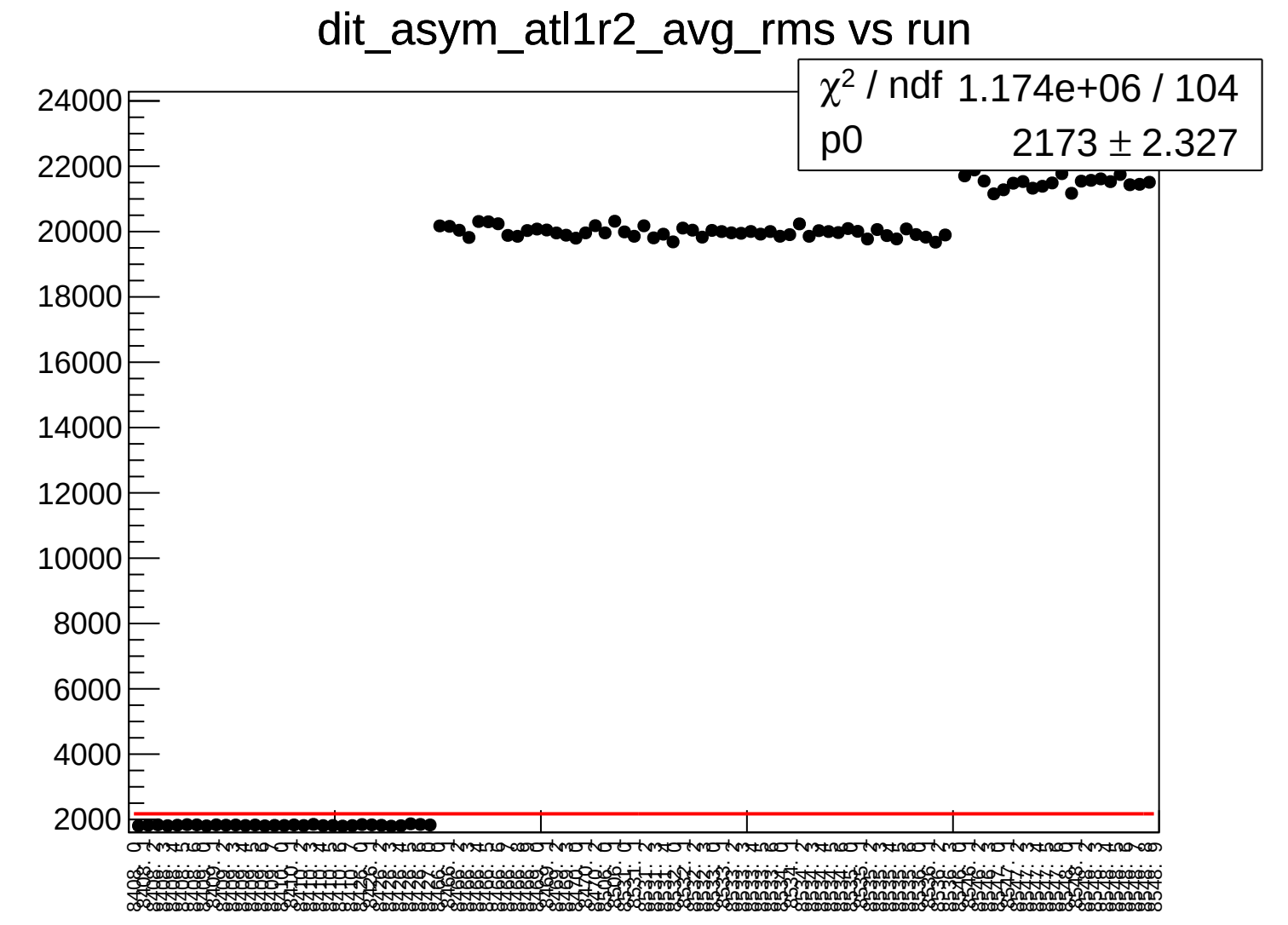

asym_atl1r2_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 95.51 / 104
p0 3058 ± 957.1
200
100
0
−100
−200
−300
pull
Entries 105
Mean −120.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

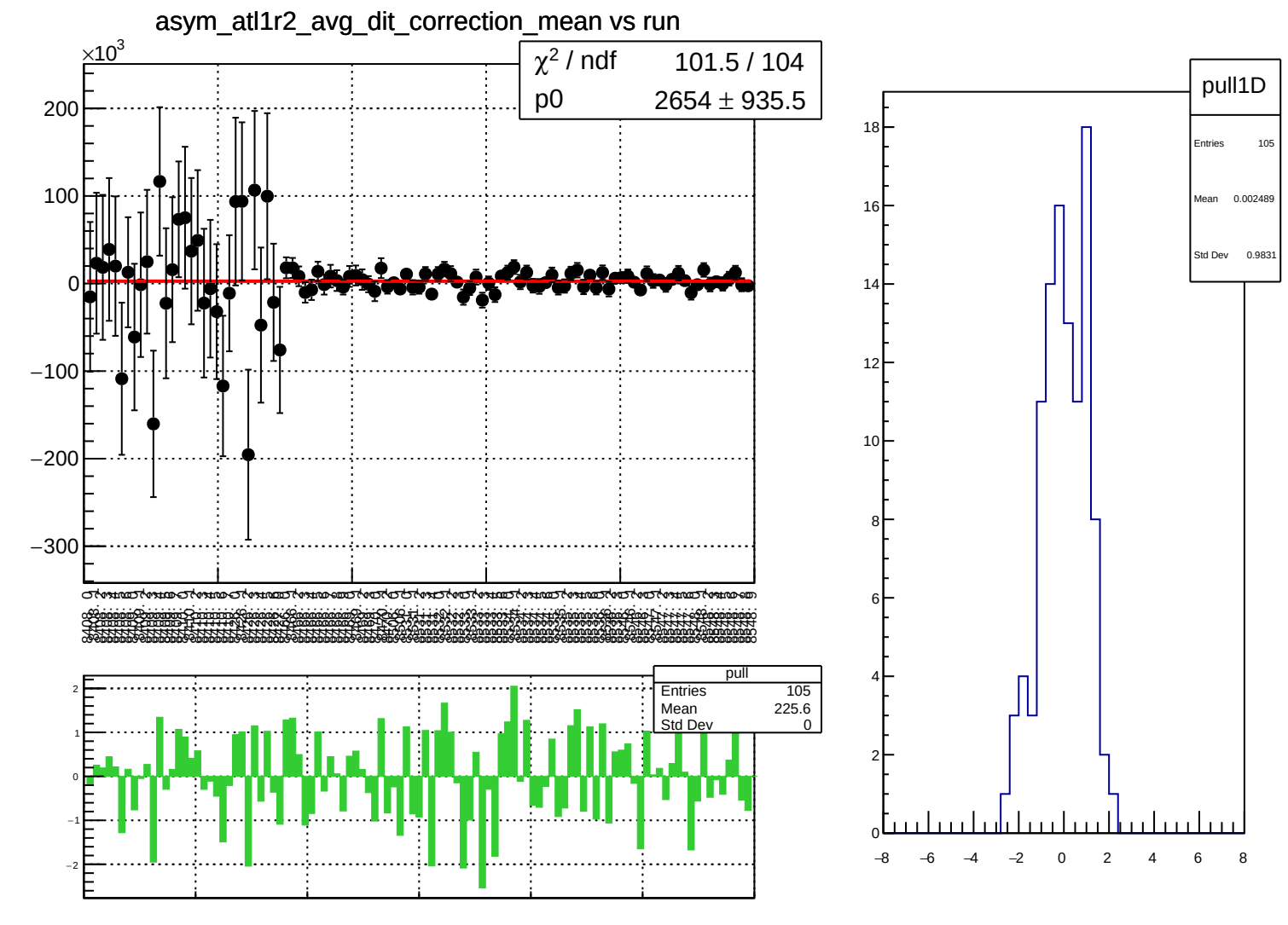

pull1D
Entries 105
Mean −0.006662
Std Dev 0.9537
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

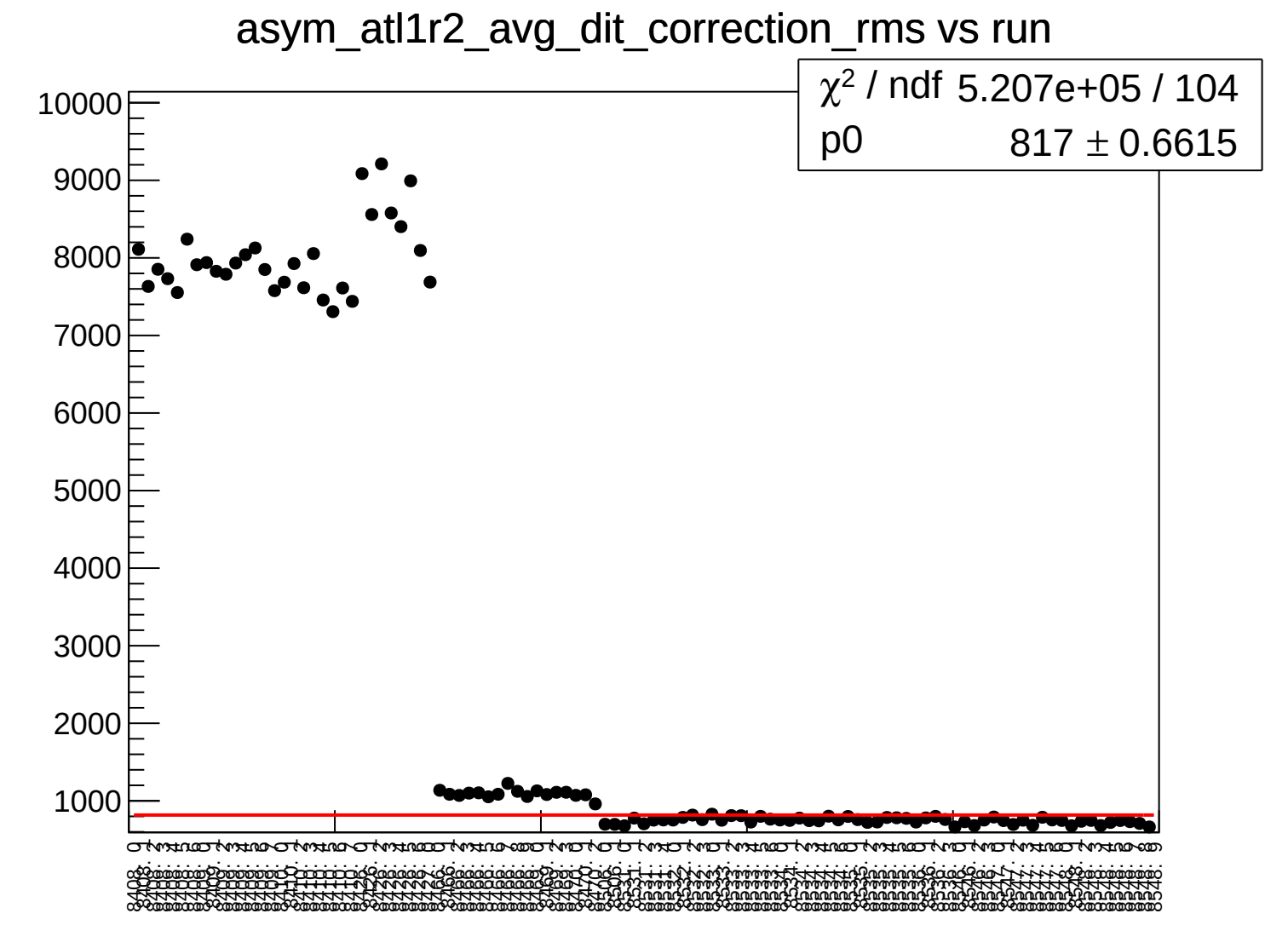

asym_atl1r2_avg_eigen_cor_correction_rms vs run
χ² / ndf 6.216e+05 / 104
p0 807.7 ± 0.6768
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000

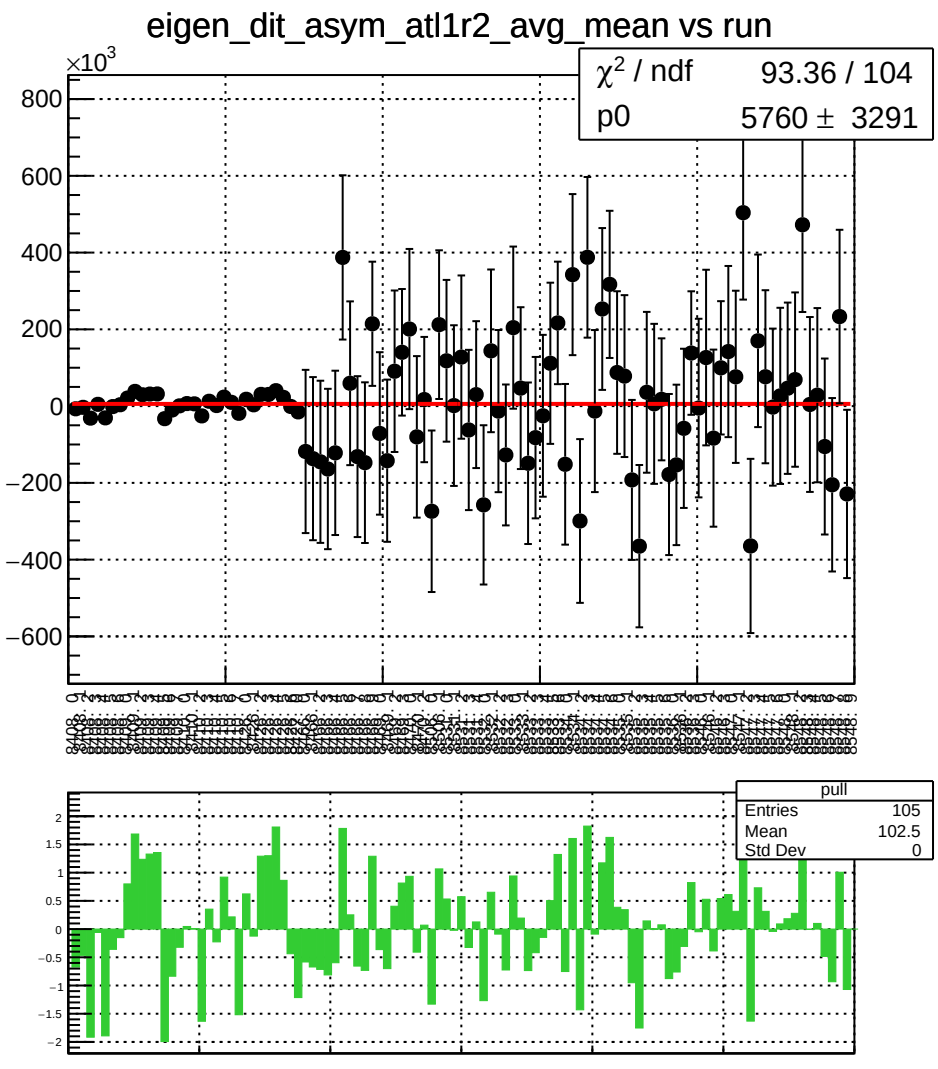

dit_asym_atl1r2_avg_mean vs run
×10^3
χ^2 / ndf 93.36 / 104
p0 5760 ± 3291
pull
Entries 105
Mean 102.5
Std Dev 0

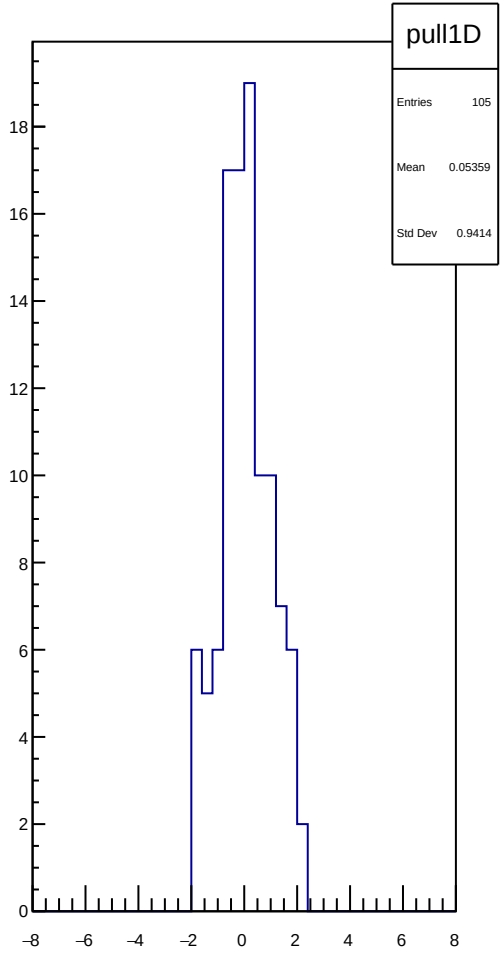

pull1D
Entries 105
Mean 0.05359
Std Dev 0.9414

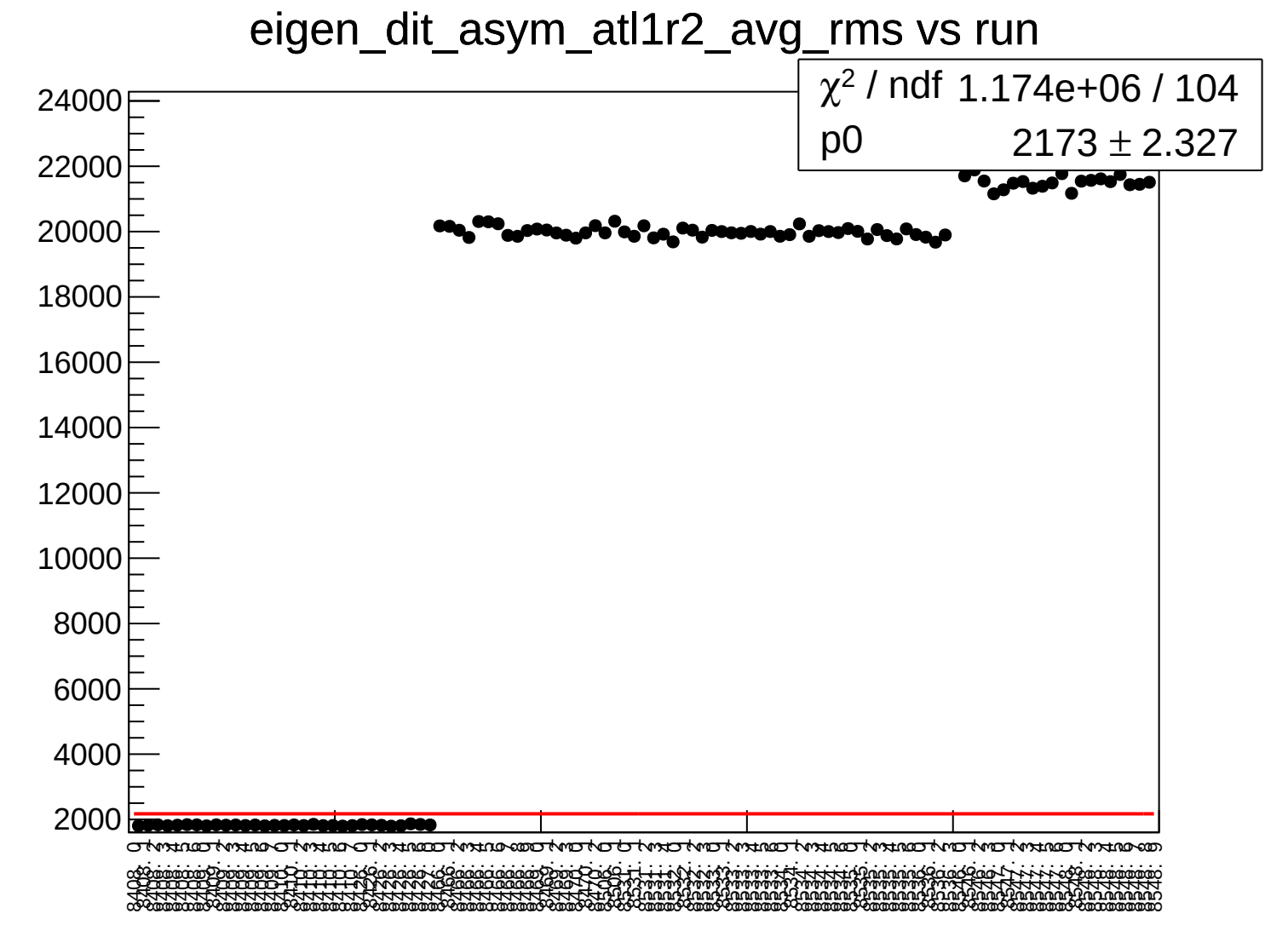

dit_asym_atl1r2_avg_rms vs run
χ² / ndf 1.174e+06 / 104
p0 2173 ± 2.327
24000
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000

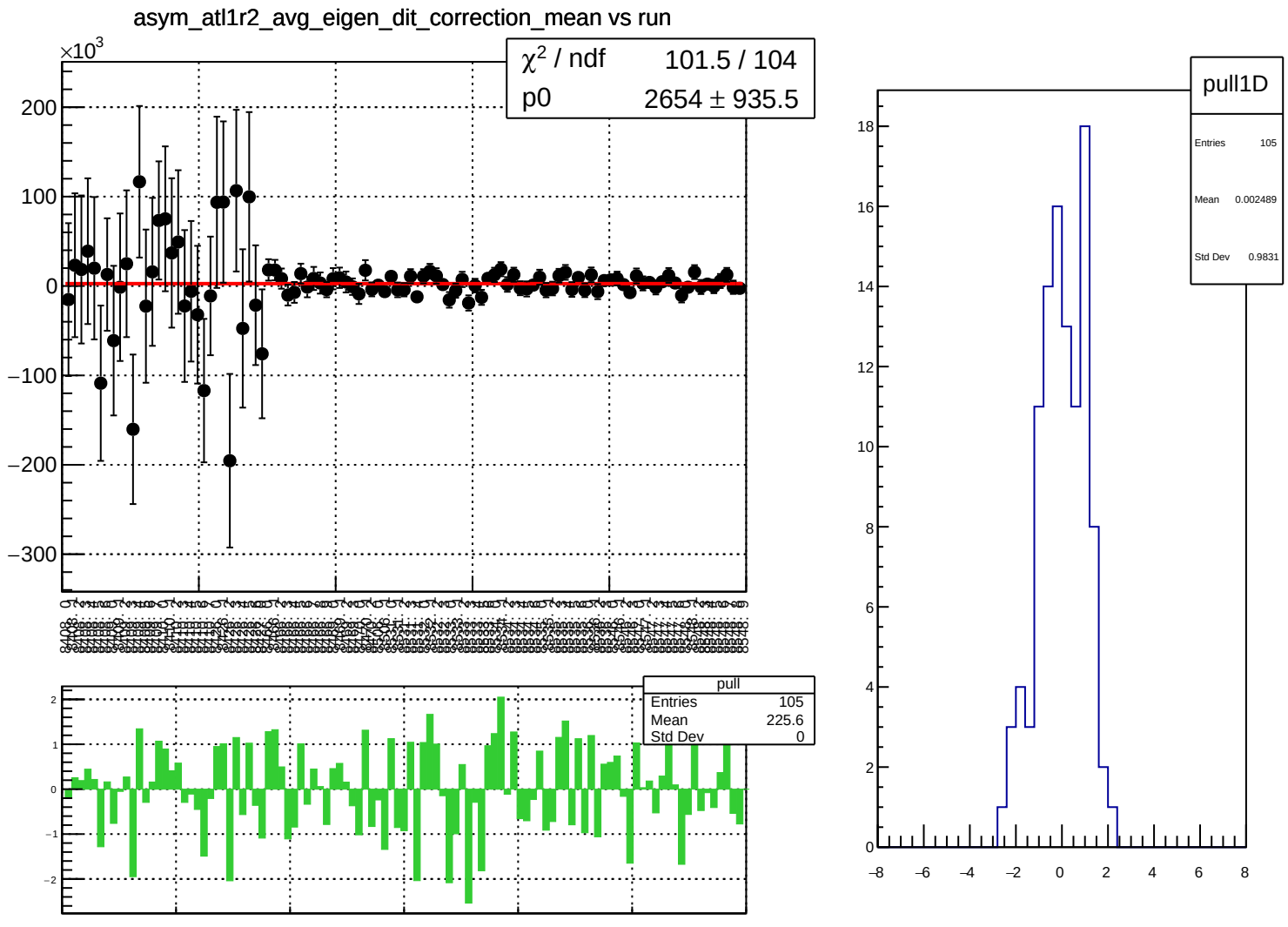

asym_atl1r2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 101.5 / 104
p0 2654 ± 935.5
200
100
0
−100
−200
−300
pull
Entries 105
Mean 225.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.002489
Std Dev 0.9831
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

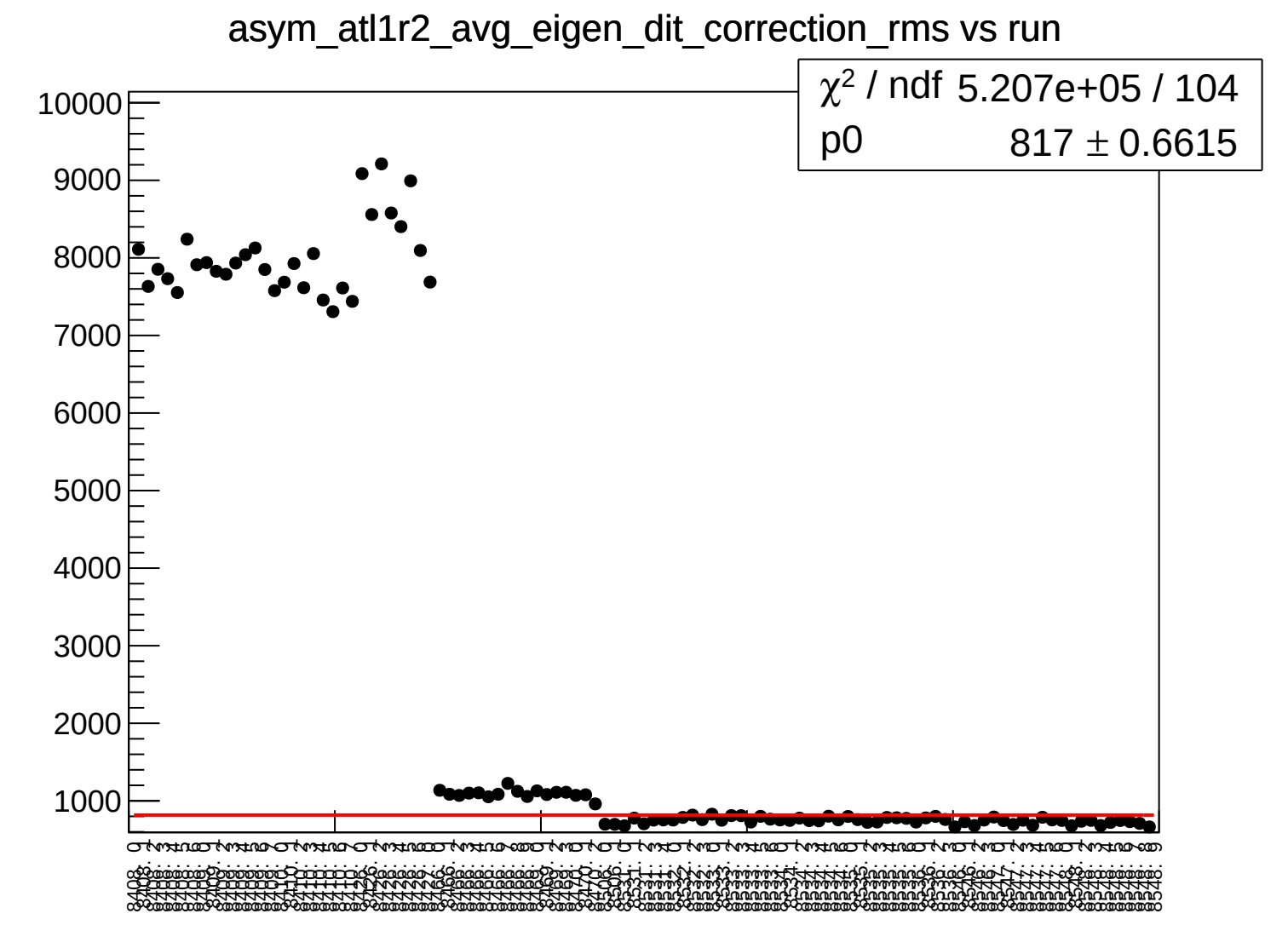

asym_atl1r2_avg_dit_correction_rms vs run
χ² / ndf 5.207e+05 / 104
p0 817 ± 0.6615
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000

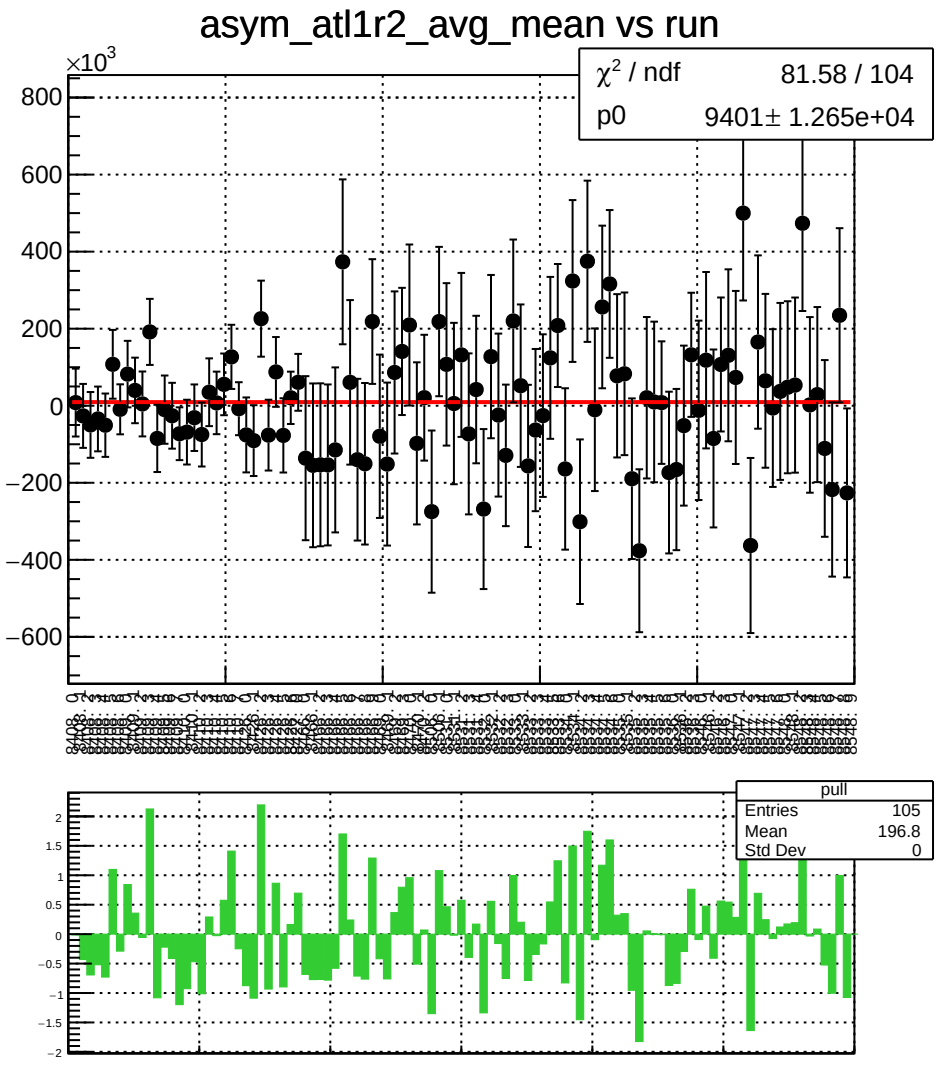

eigen_dit_asym_atl1r2_avg_mean vs run
×10^3
χ^2 / ndf 93.36 / 104
p0 5760 ± 3291
800
600
400
200
0
−200
−400
−600
pull
Entries 105
Mean 102.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

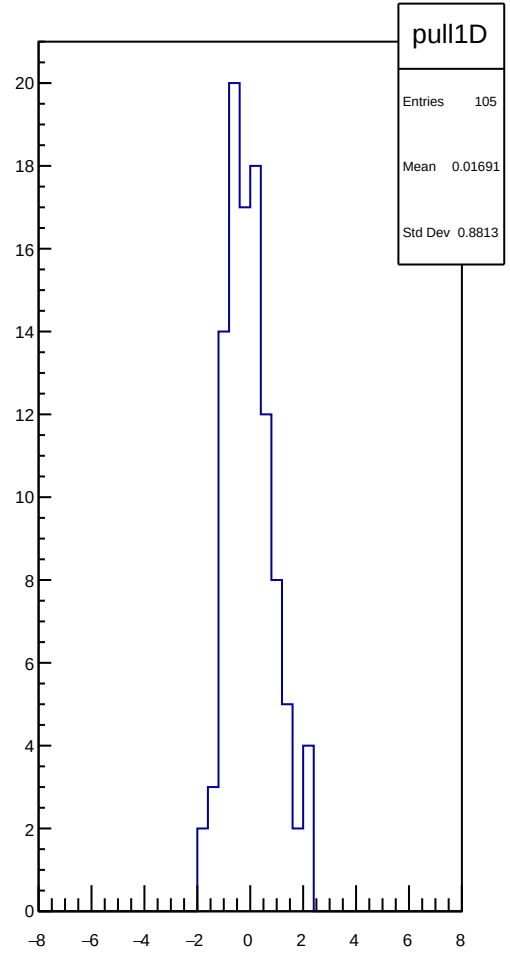

pull1D
Entries 105
Mean 0.05359
Std Dev 0.9414
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

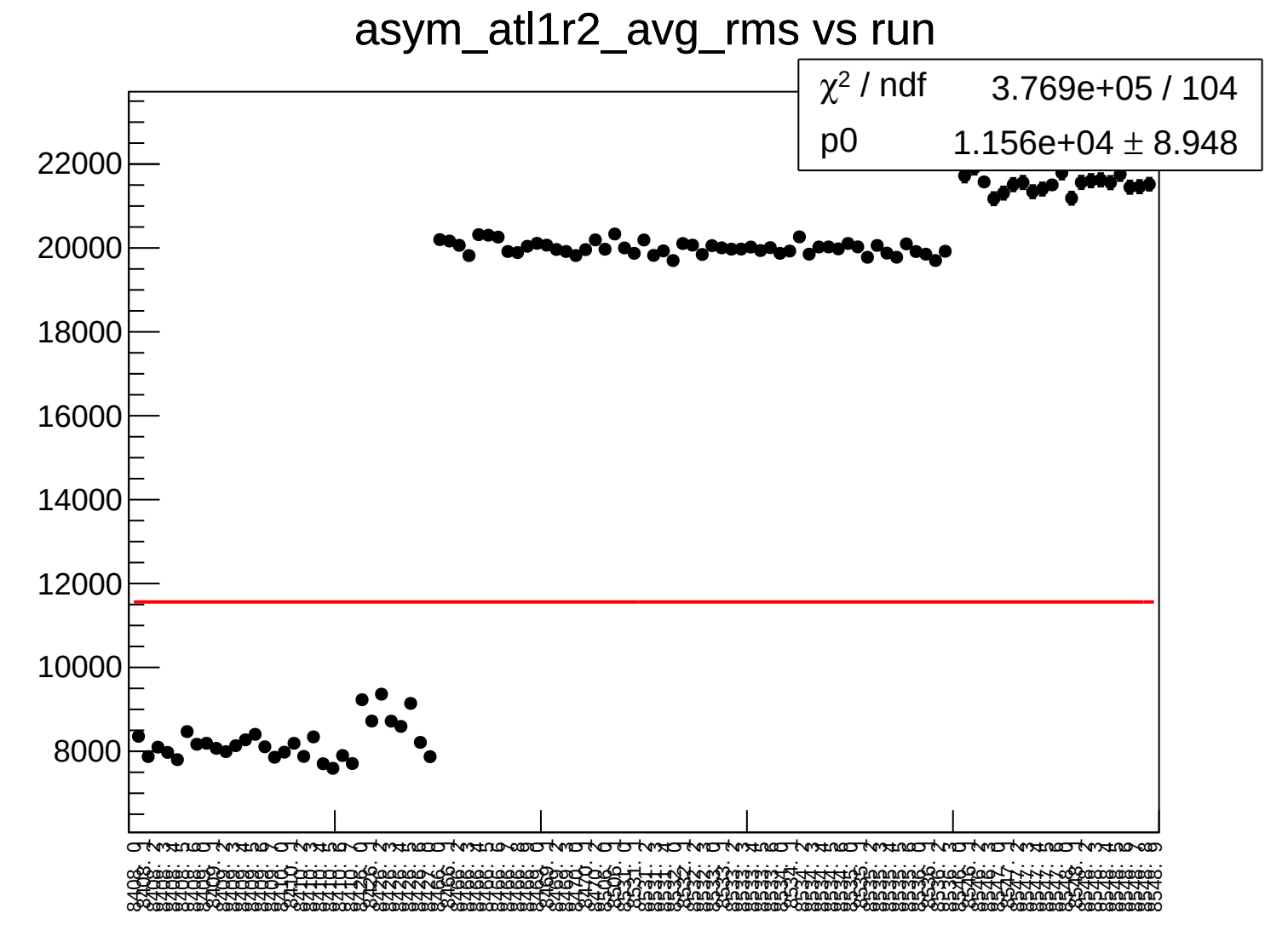

eigen_dit_asym_atl1r2_avg_rms vs run
χ² / ndf 1.174e+06 / 104
p0 2173 ± 2.327
24000
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000

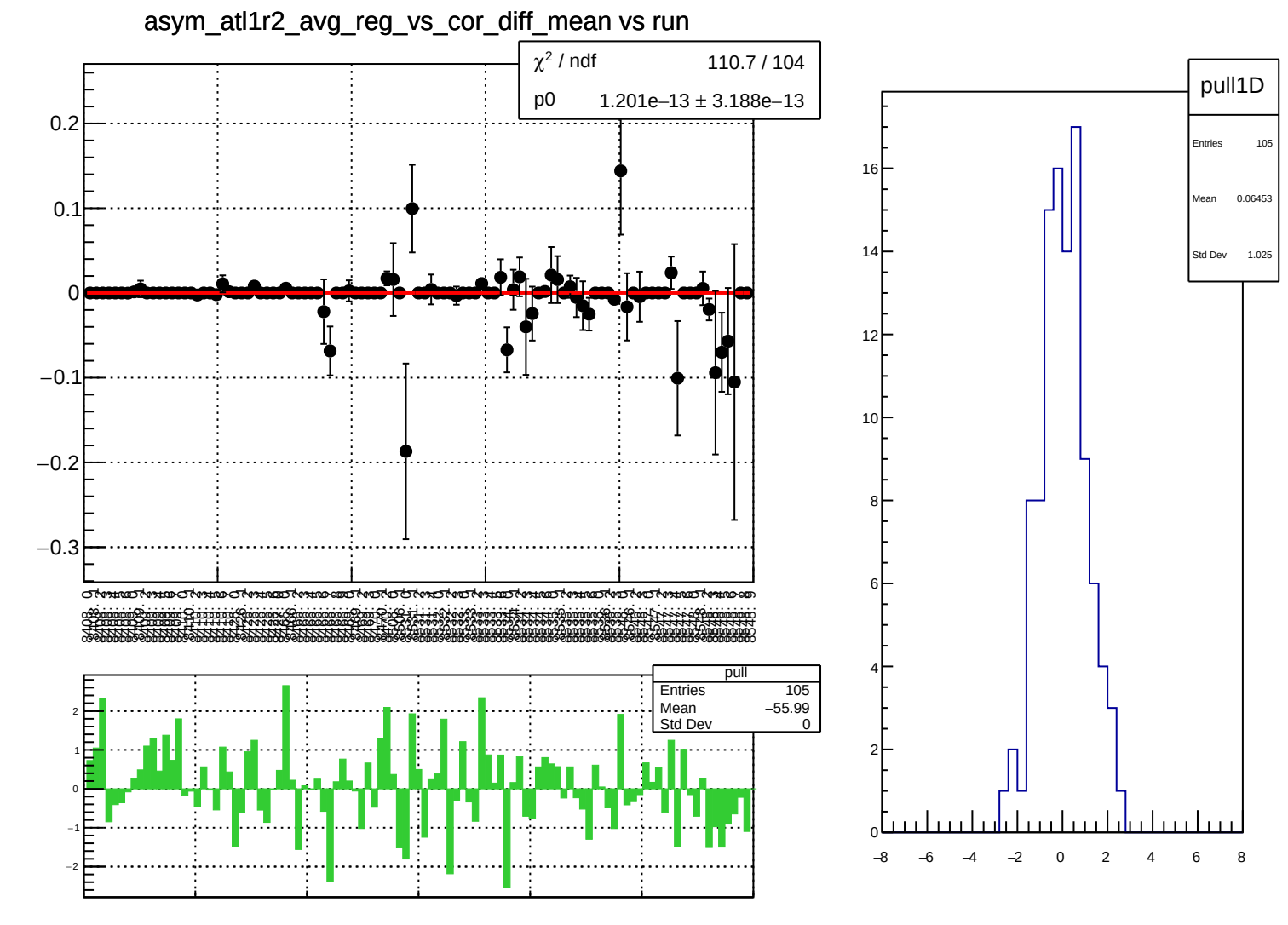

asym_atl1r2_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 101.5 / 104
p0 2654 ± 935.5
200
100
0
−100
−200
−300
pull
Entries 105
Mean 225.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.002489
Std Dev 0.9831
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

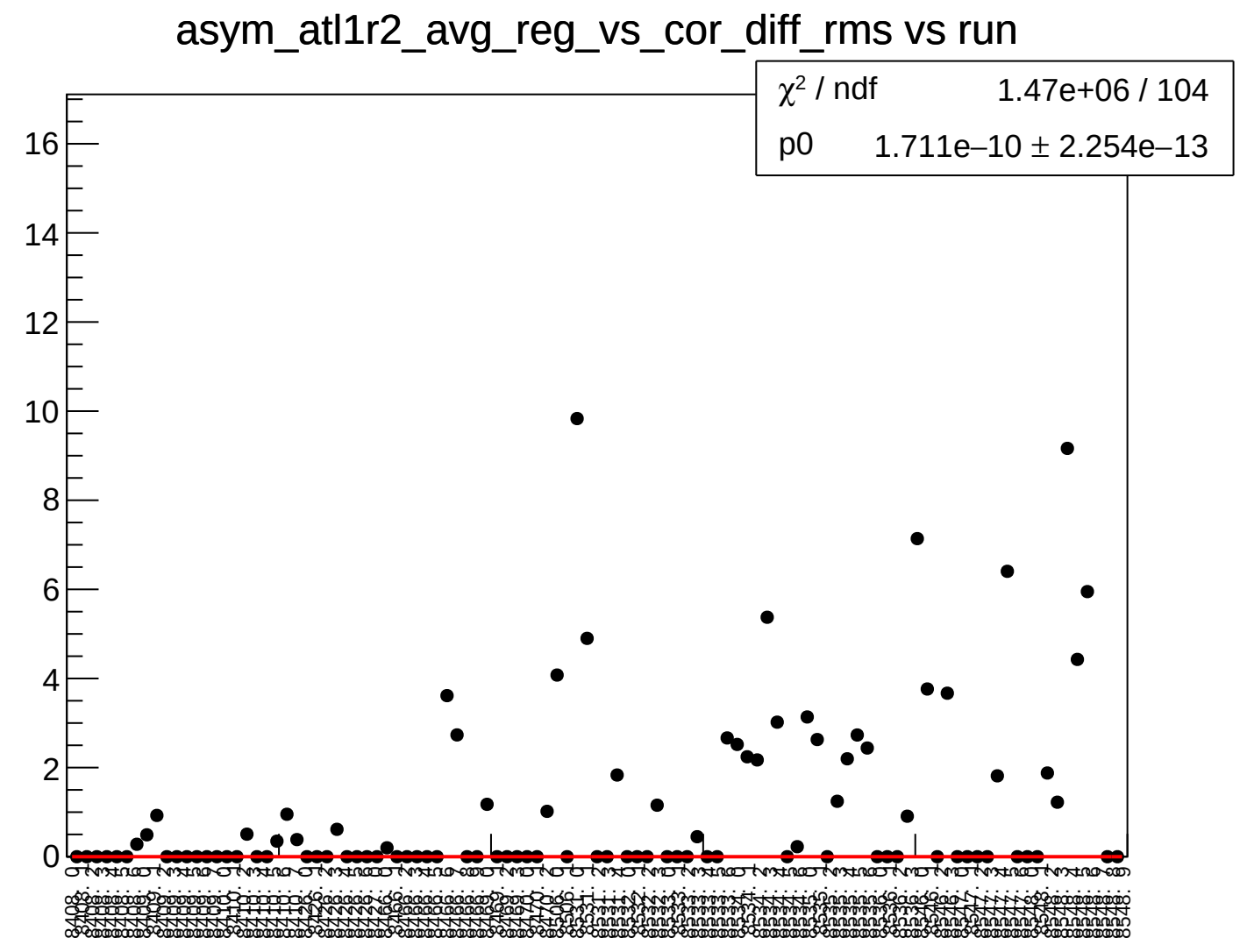

asym_atl1r2_avg_eigen_dit_correction_rms vs run
χ² / ndf 5.207e+05 / 104
p0 817 ± 0.6615
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000

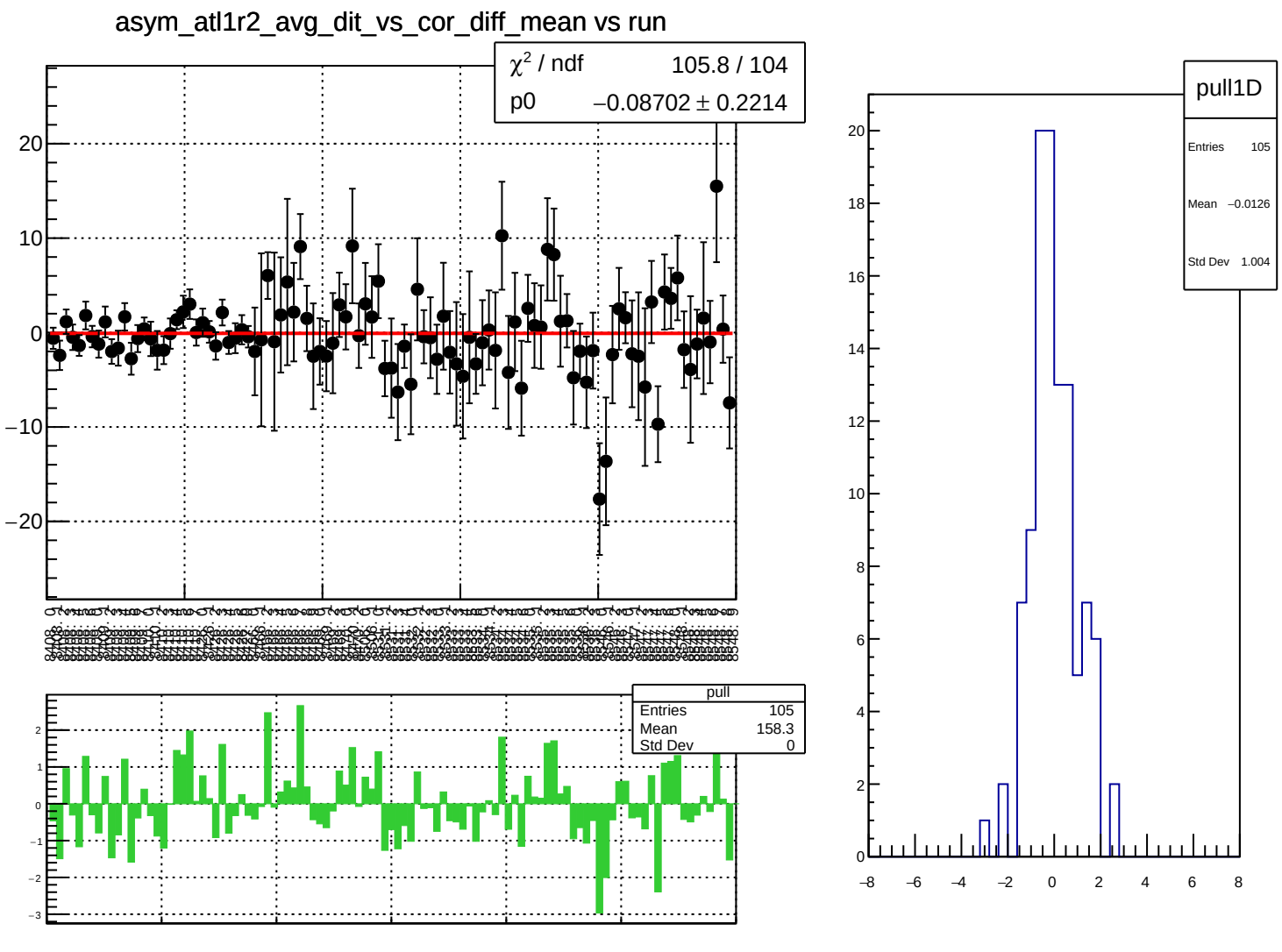

asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 81.58 / 104
p0 9401± 1.265e+04
pull
Entries 105
Mean 196.8
Std Dev 0

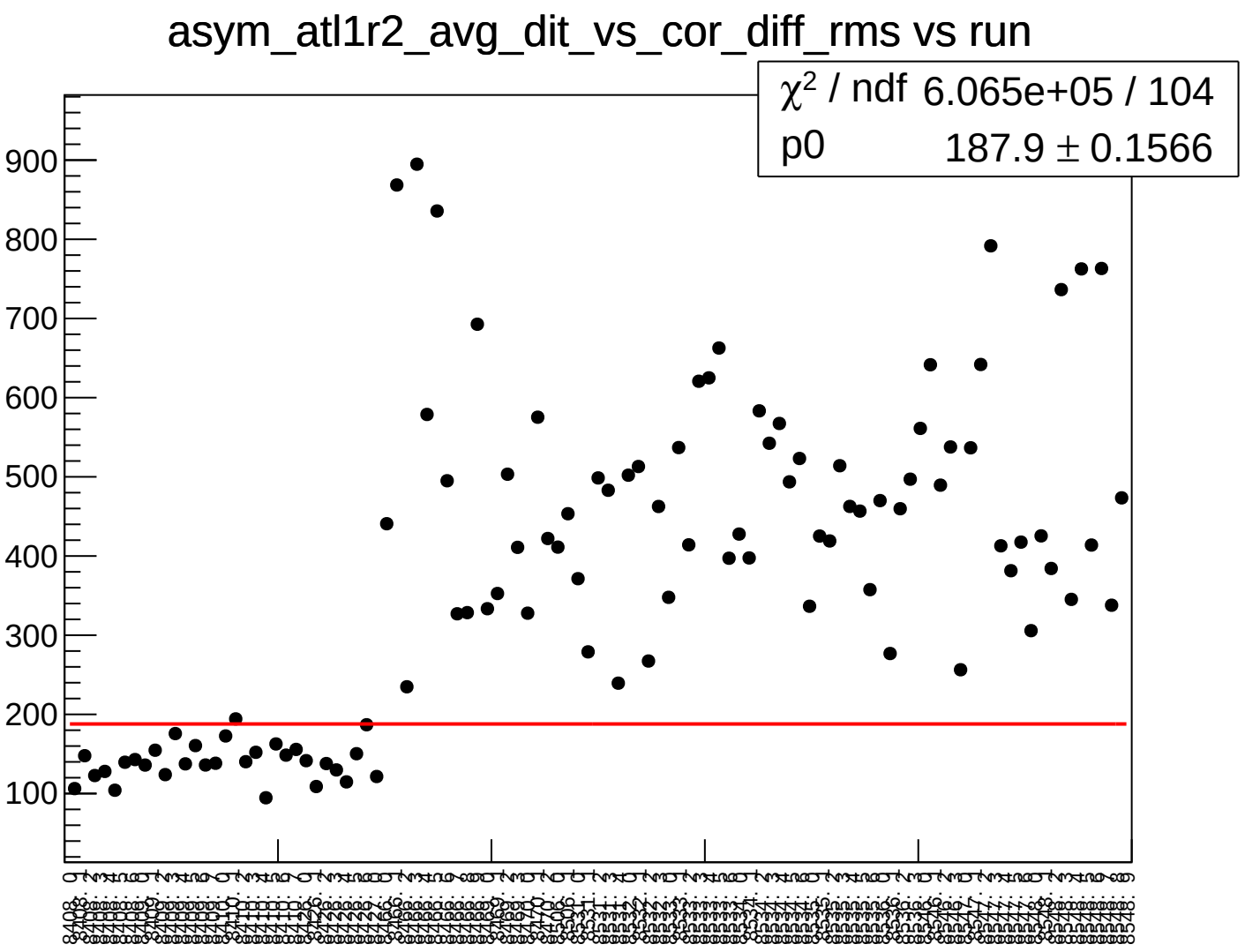

pull1D
Entries 105
Mean 0.01691
Std Dev 0.8813

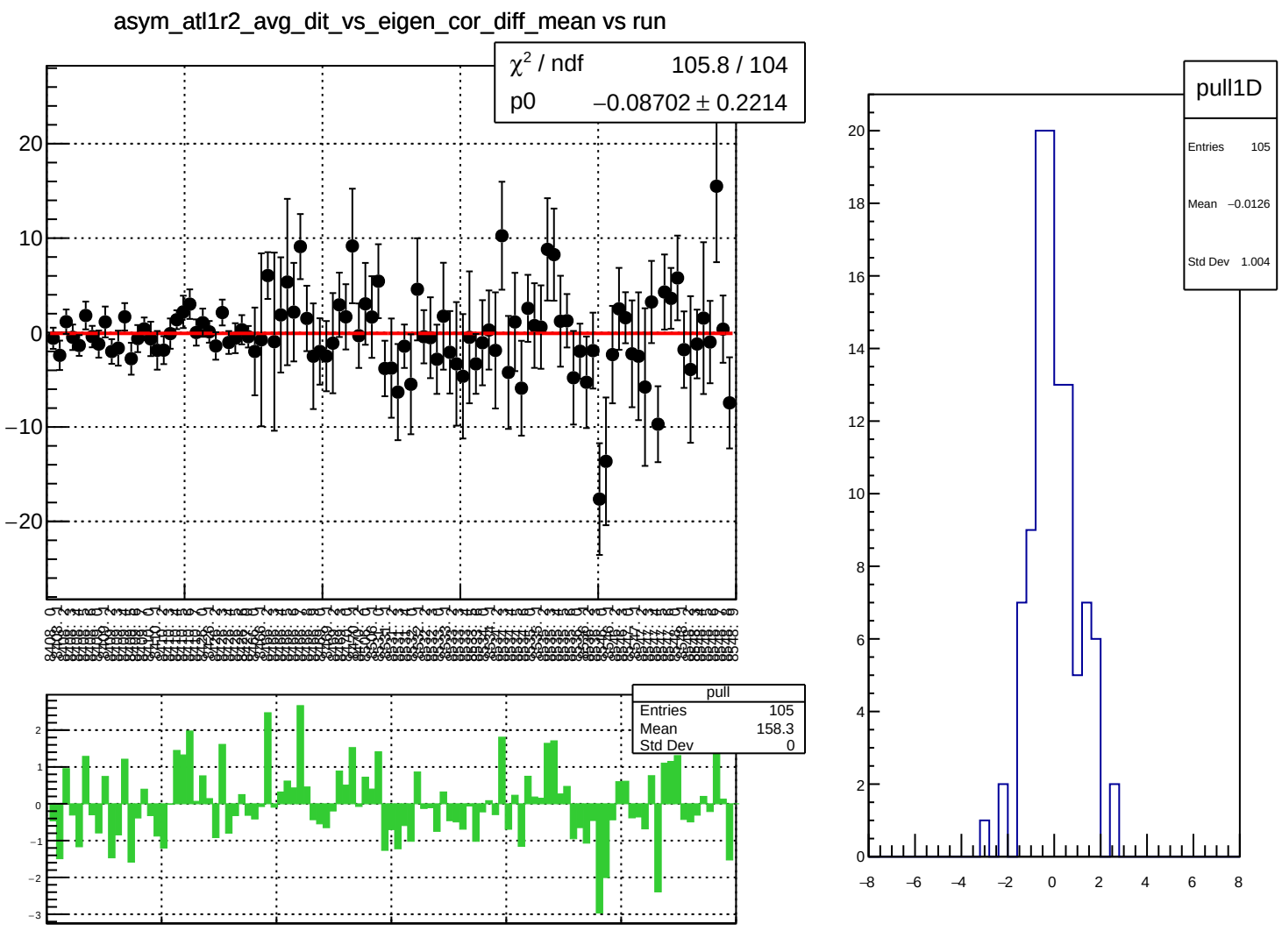

asym_atl1r2_avg_rms vs run
χ² / ndf 3.769e+05 / 104
p0 1.156e+04 ± 8.948
22000
20000
18000
16000
14000
12000
10000
8000

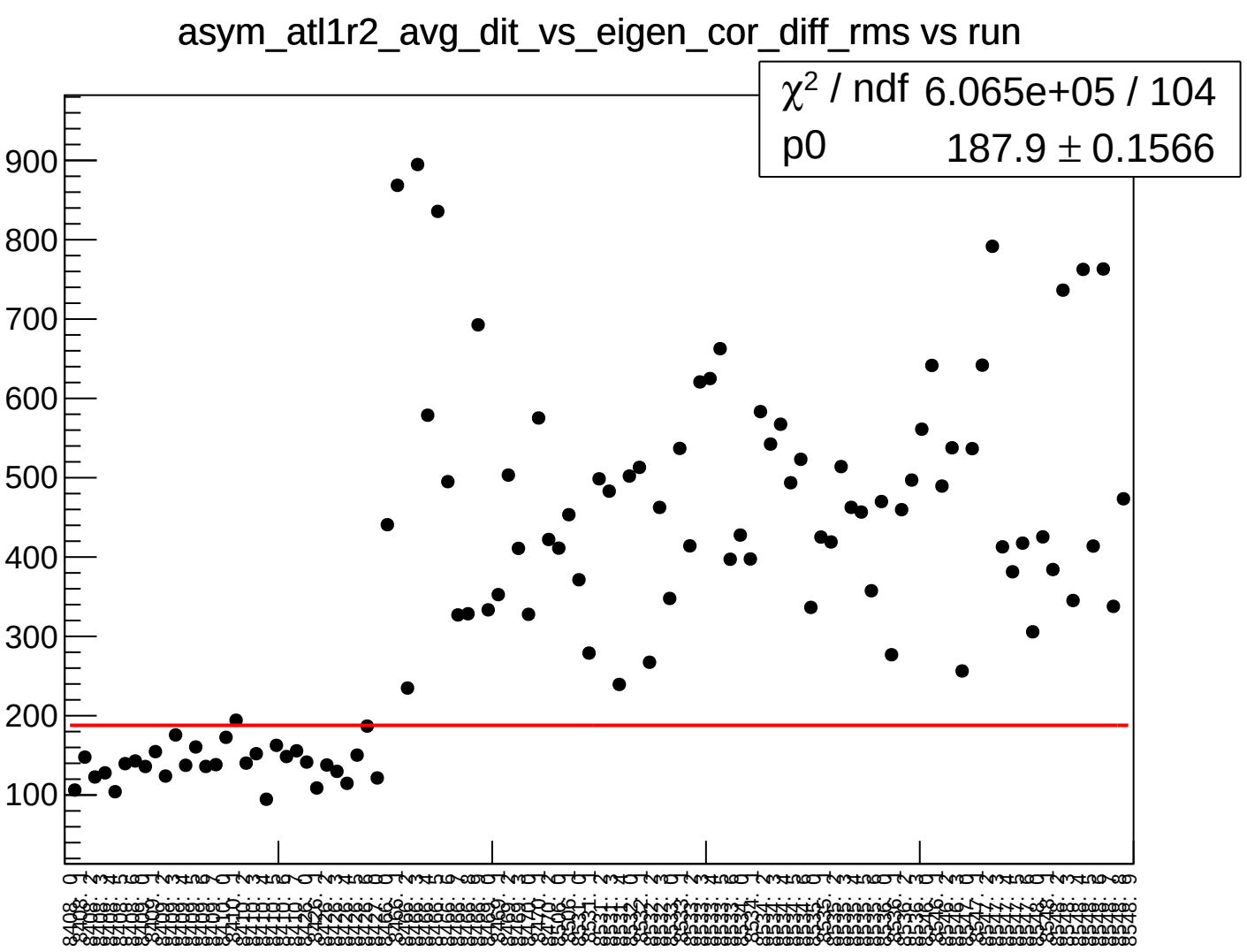

asym_atl1r2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 110.7 / 104
p0 1.201e−13 ± 3.188e−13
pull
Entries 105
Mean −55.99
Std Dev 0
pull1D
Entries 105
Mean 0.06453
Std Dev 1.025

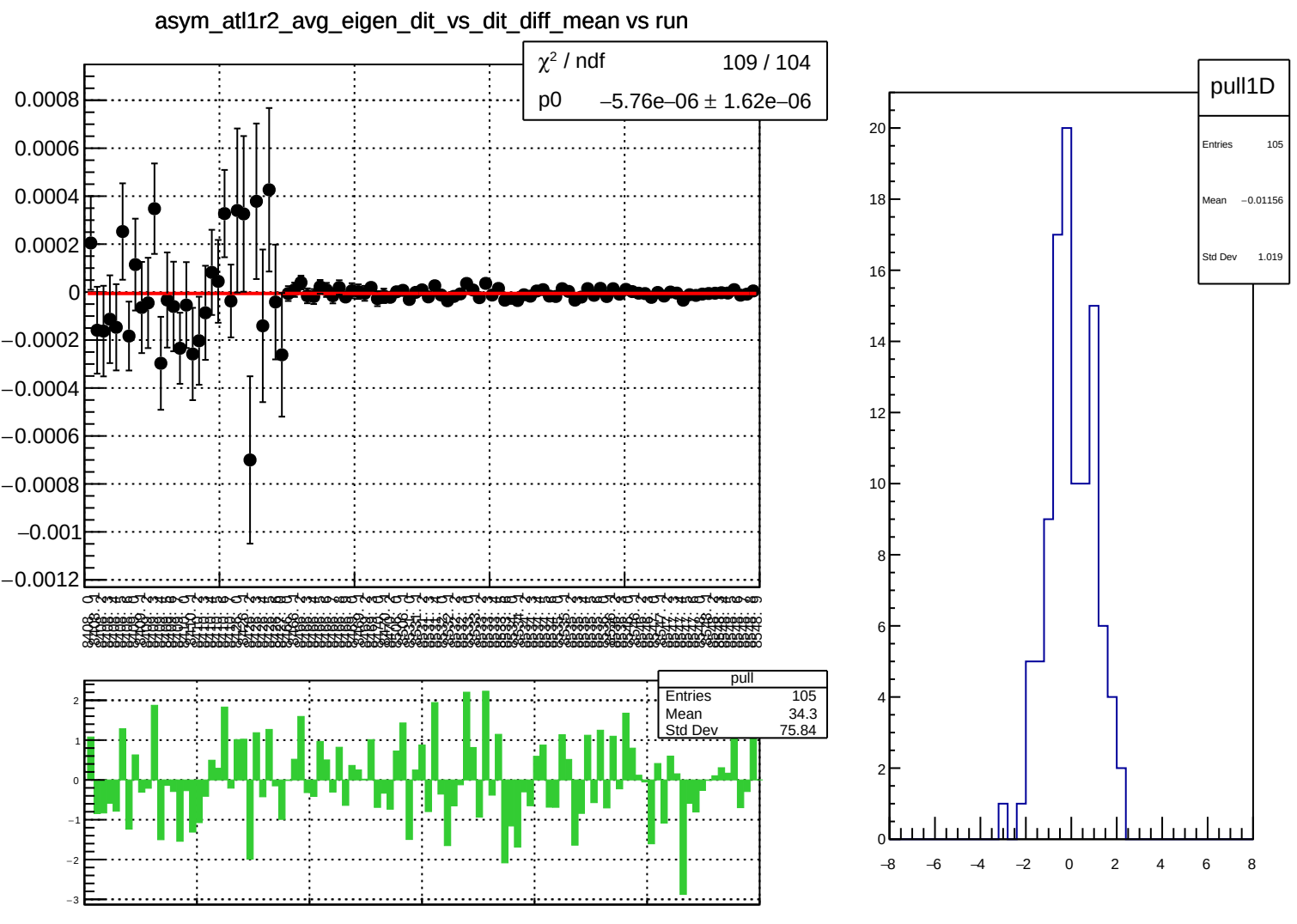

asym_atl1r2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.47e+06 / 104
p0 1.711e−10 ± 2.254e−13
16
14
12
10
8
6
4
2
0

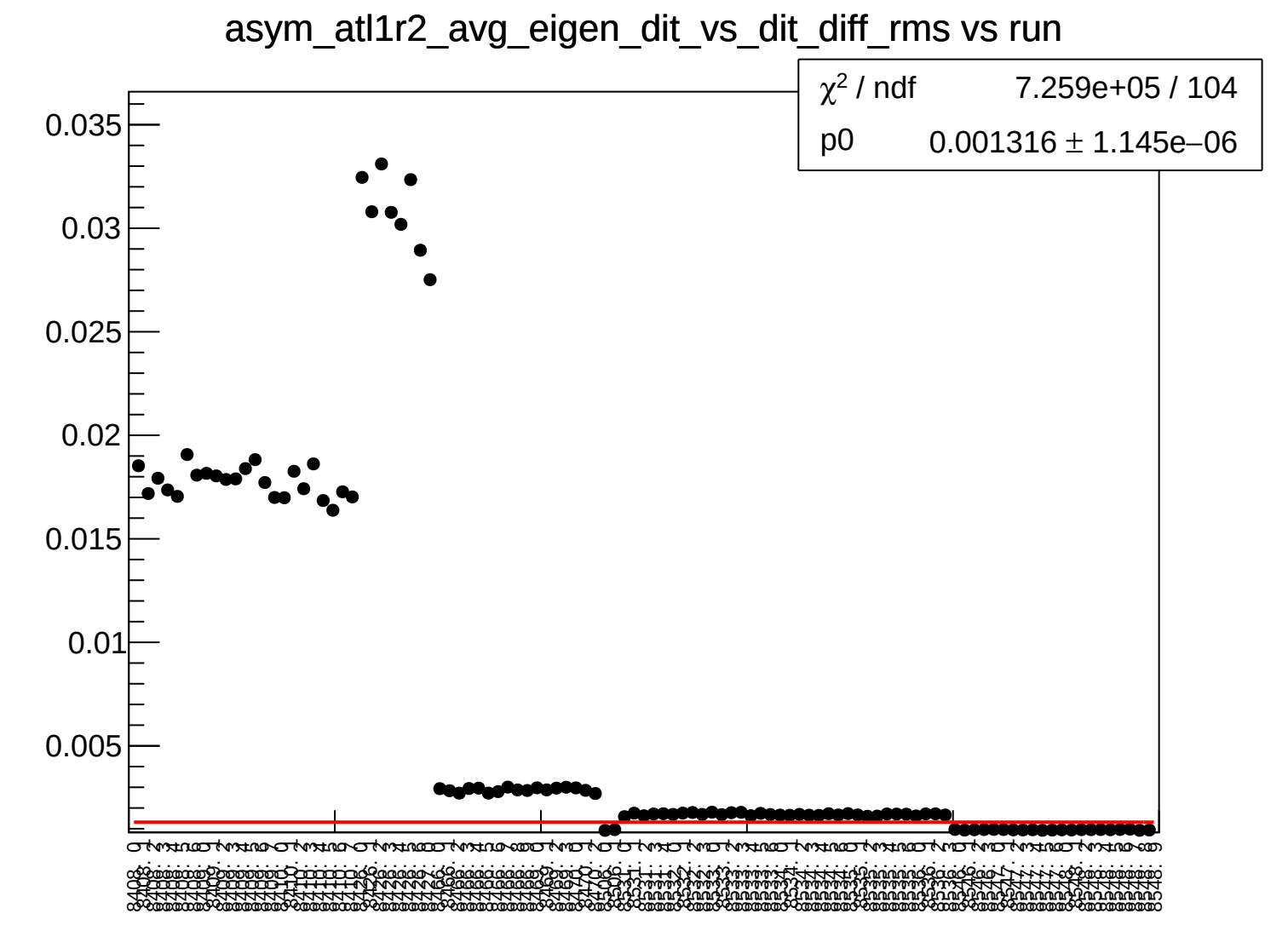

asym_atl1r2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 105.8 / 104
p0 −0.08702 ± 0.2214
pull
Entries 105
Mean 158.3
Std Dev 0
pull1D
Entries 105
Mean −0.0126
Std Dev 1.004

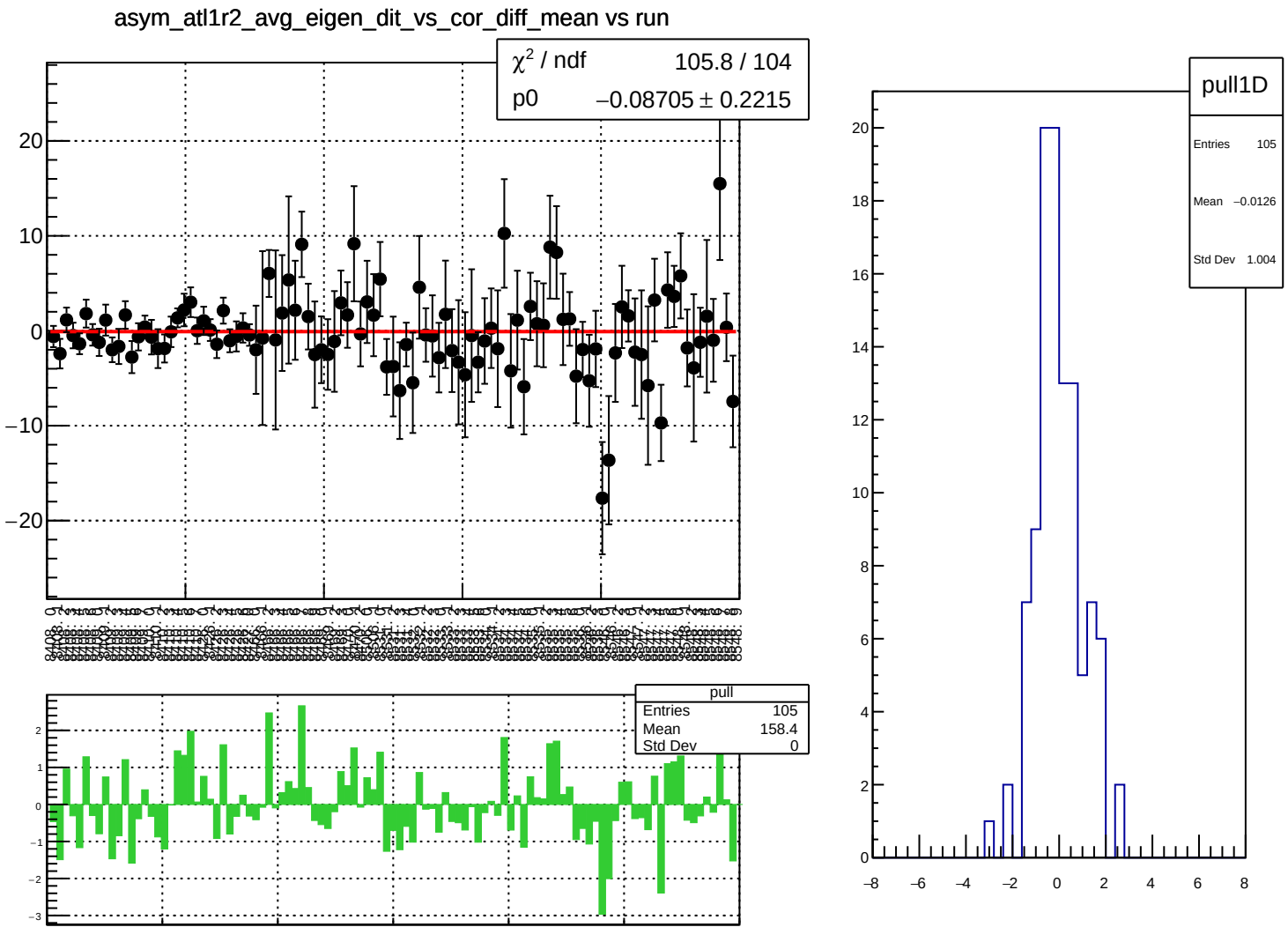

asym_atl1r2_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 6.065e+05 / 104
p0 187.9 ± 0.1566
900
800
700
600
500
400
300
200
100

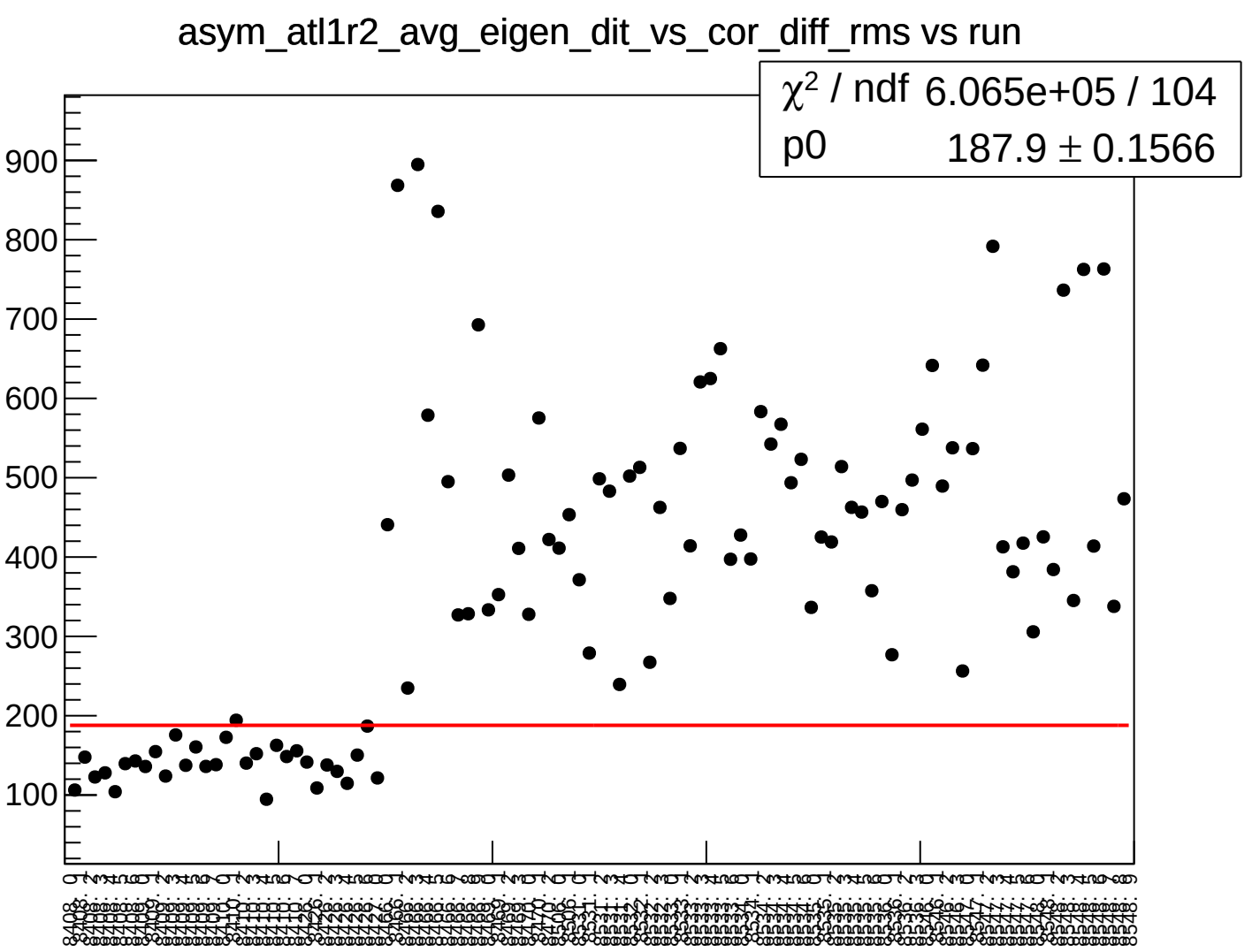

asym_atl1r2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.8 / 104
p0 −0.08702 ± 0.2214
pull
Entries 105
Mean 158.3
Std Dev 0
pull1D
Entries 105
Mean −0.0126
Std Dev 1.004

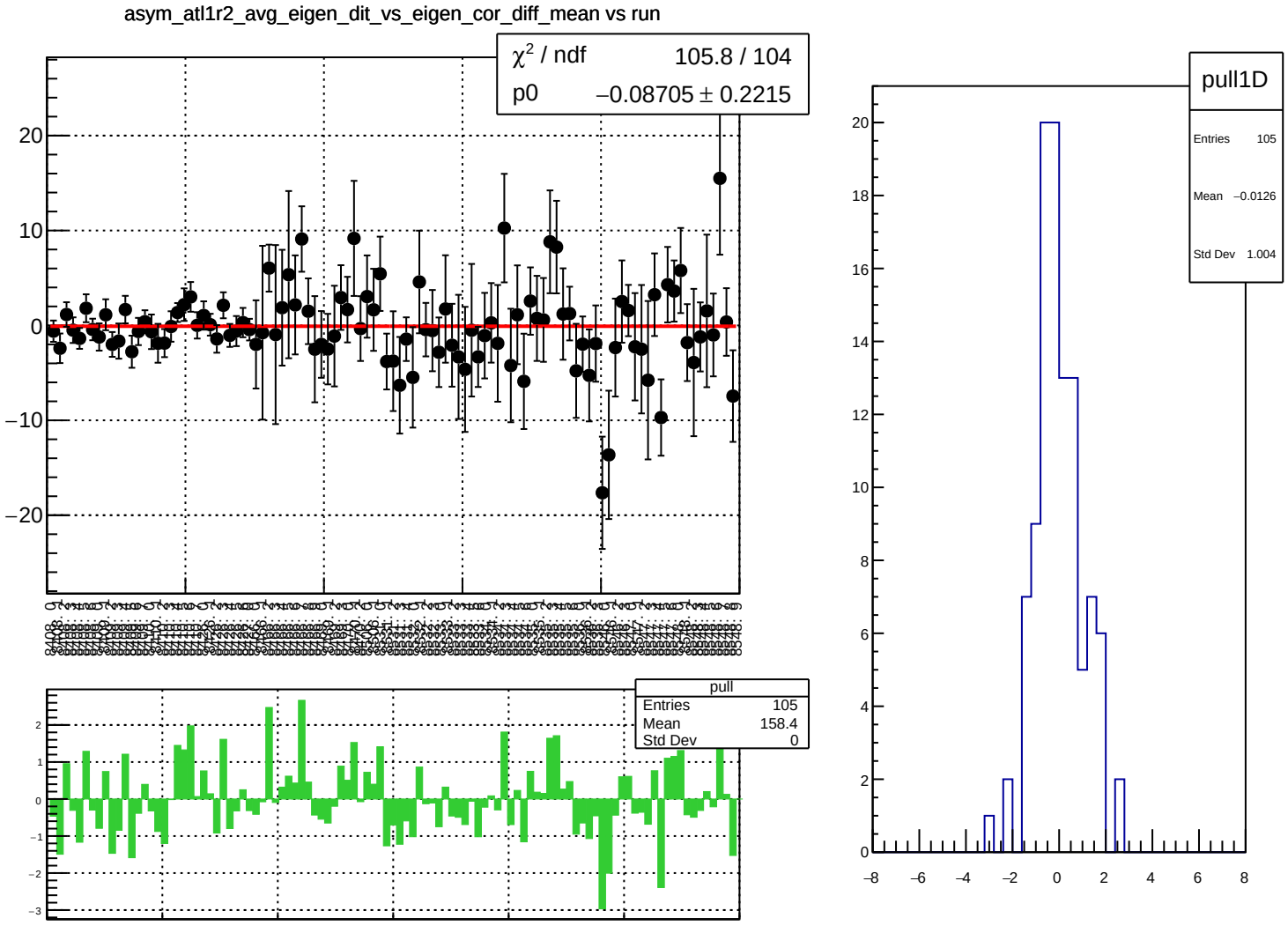

asym_atl1r2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.065e+05 / 104
p0 187.9 ± 0.1566
900
800
700
600
500
400
300
200
100

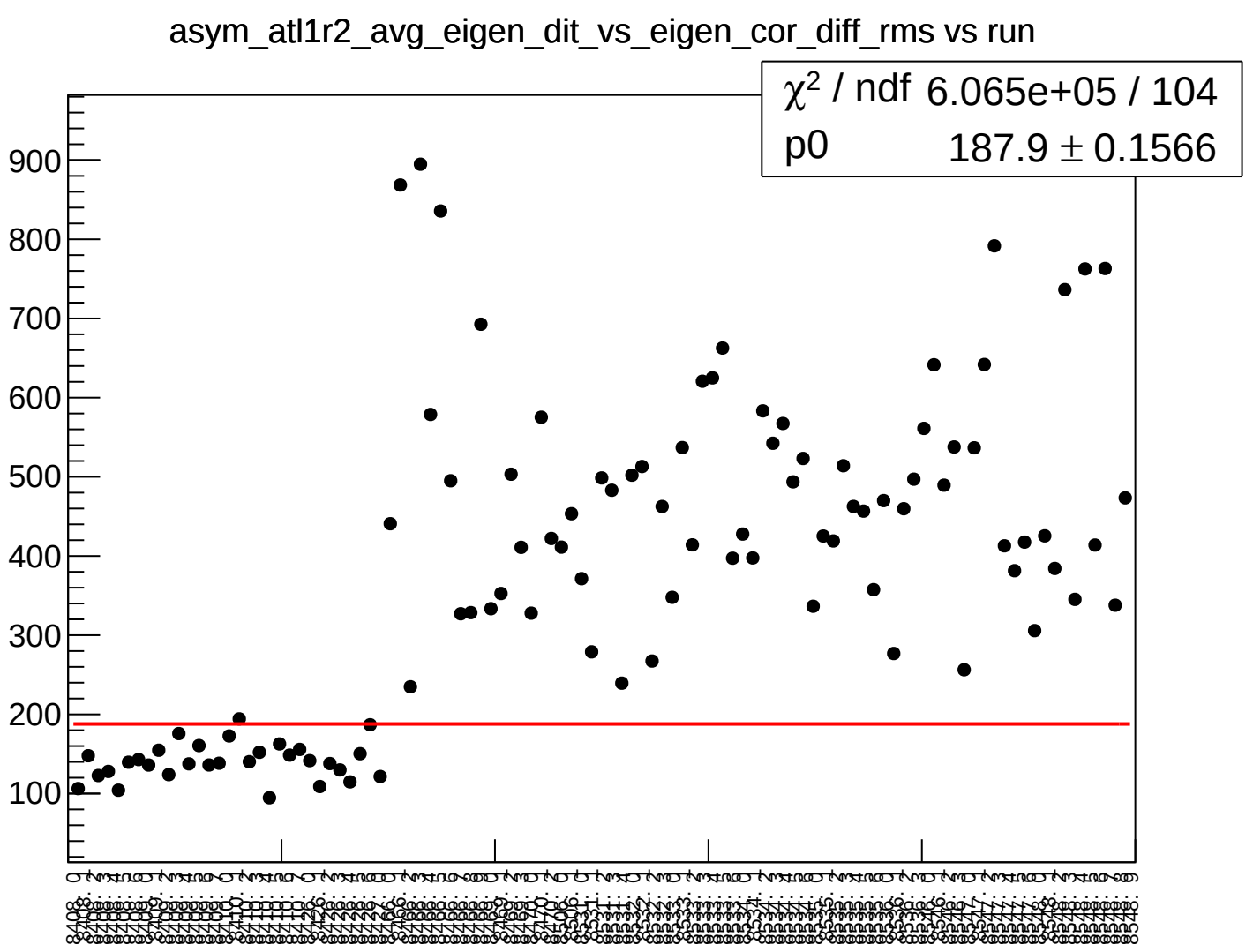

asym_atl1r2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 109 / 104
p0 −5.76e−06 ± 1.62e−06
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
−0.0012
pull
Entries 105
Mean 34.3
Std Dev 75.84
2
1
0
−1
−2
−3
pull1D
Entries 105
Mean −0.01156
Std Dev 1.019
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

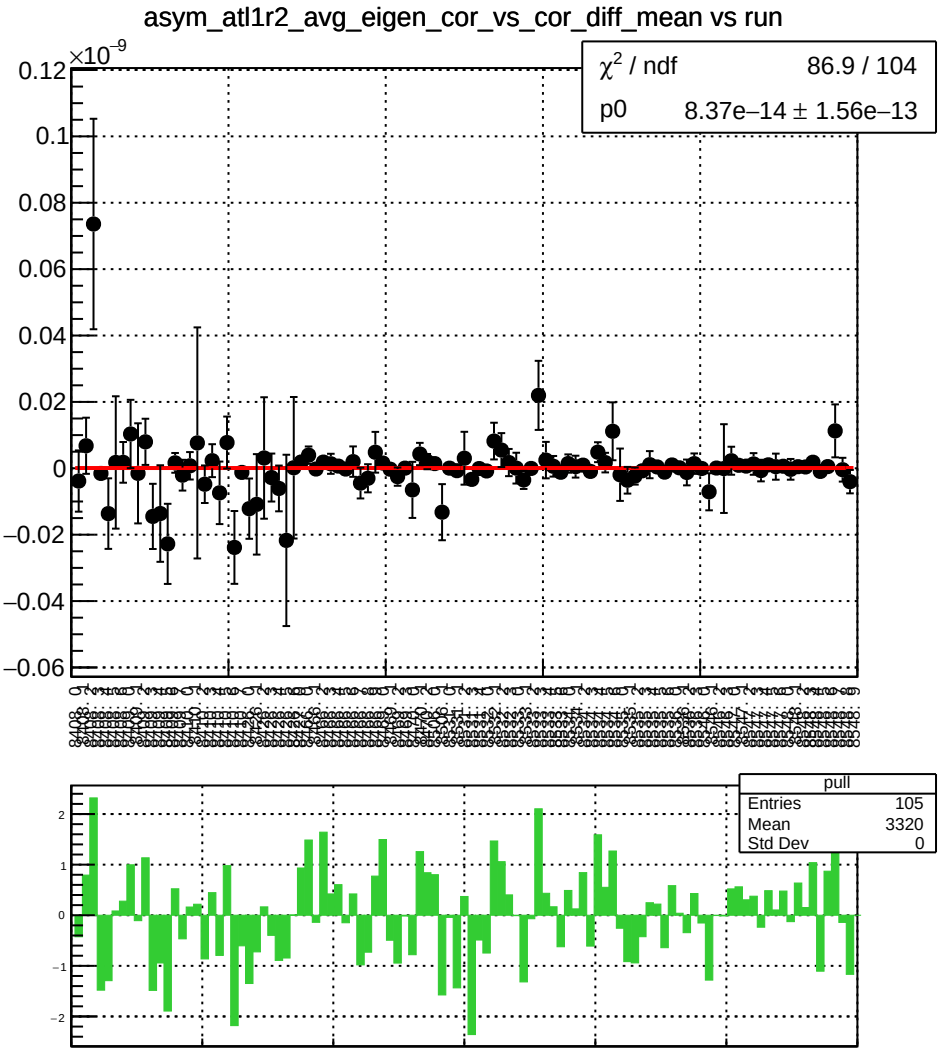

asym_atl1r2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.259e+05 / 104
p0 0.001316 ± 1.145e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

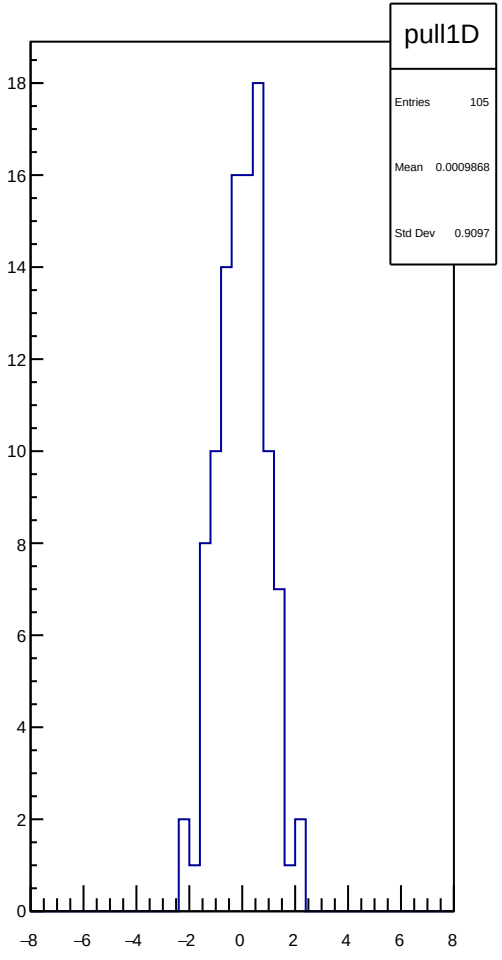

asym_atl1r2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 105.8 / 104
p0 −0.08705 ± 0.2215
pull
Entries 105
Mean 158.4
Std Dev 0
pull1D
Entries 105
Mean −0.0126
Std Dev 1.004

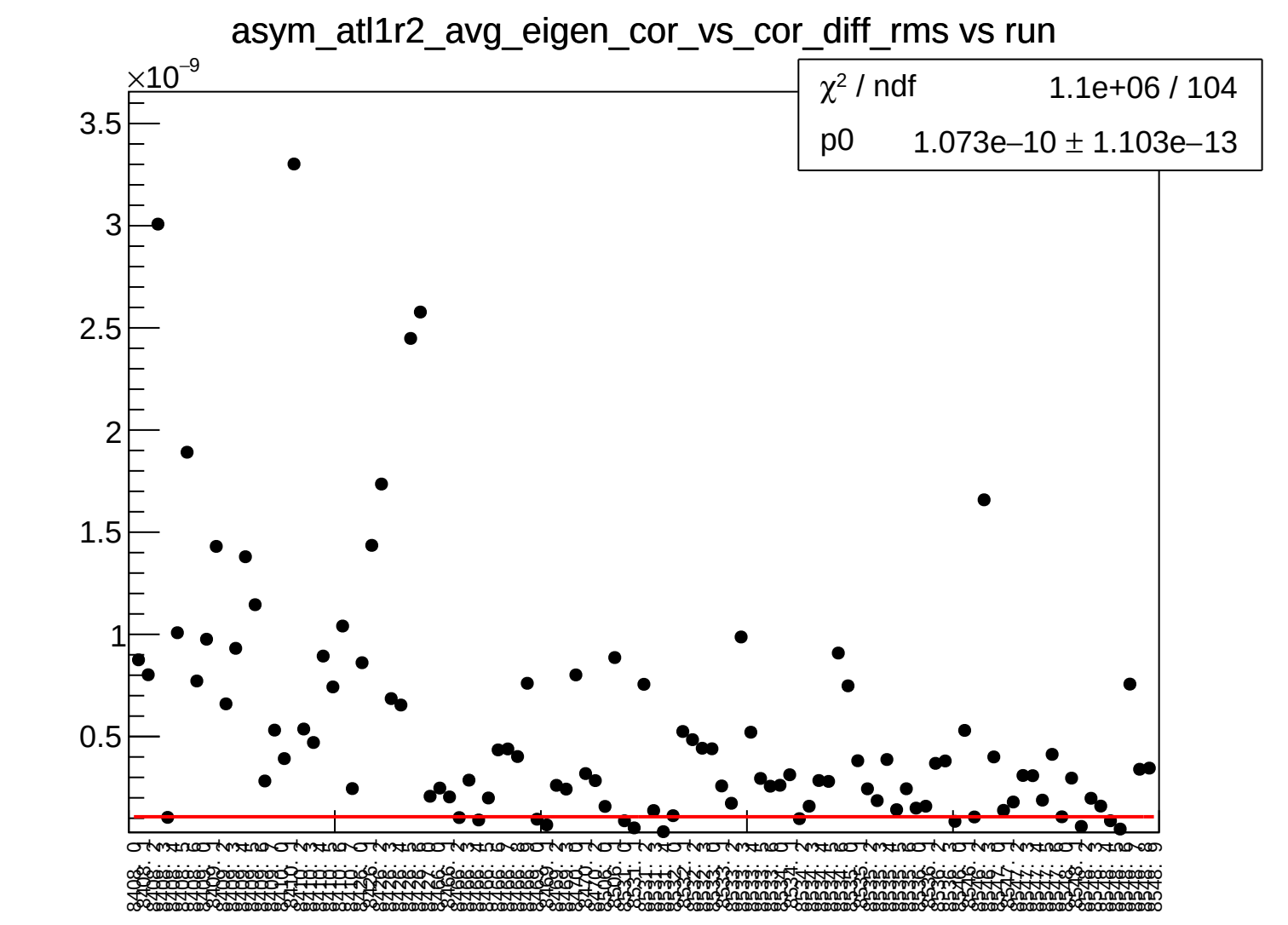

asym_atl1r2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.065e+05 / 104
p0 187.9 ± 0.1566
900
800
700
600
500
400
300
200
100

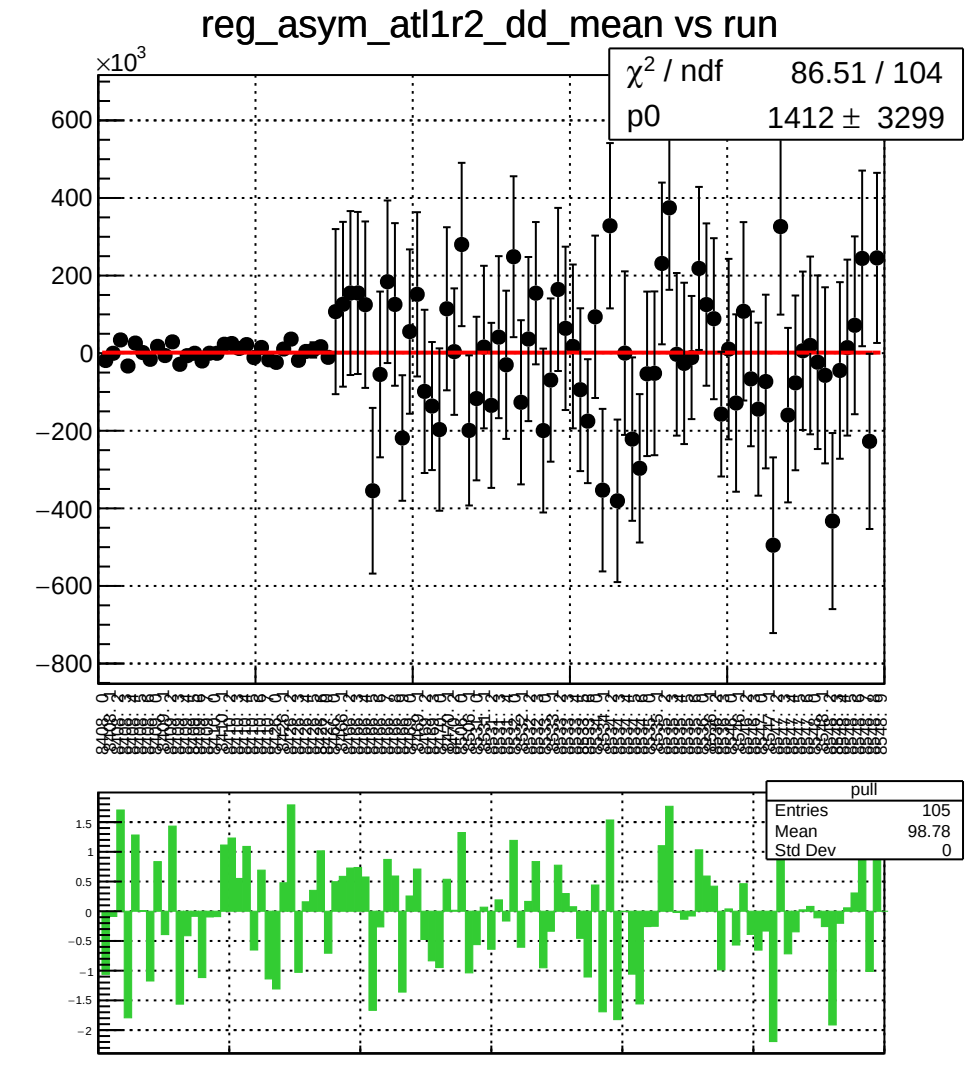

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 105.8 / 104
p0 −0.08705 ± 0.2215
pull
Entries 105
Mean 158.4
Std Dev 0
pull1D
Entries 105
Mean −0.0126
Std Dev 1.004

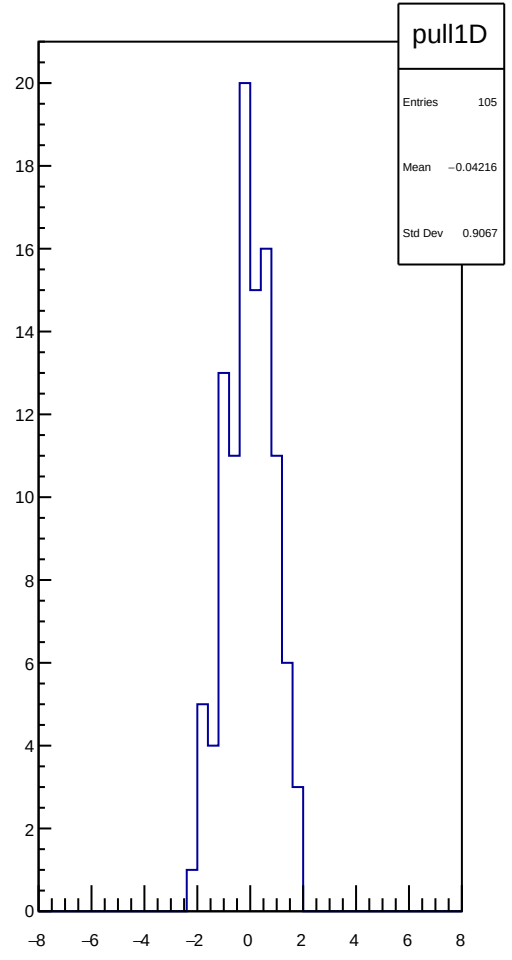

asym_atl1r2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.065e+05 / 104
p0 187.9 ± 0.1566
900
800
700
600
500
400
300
200
100

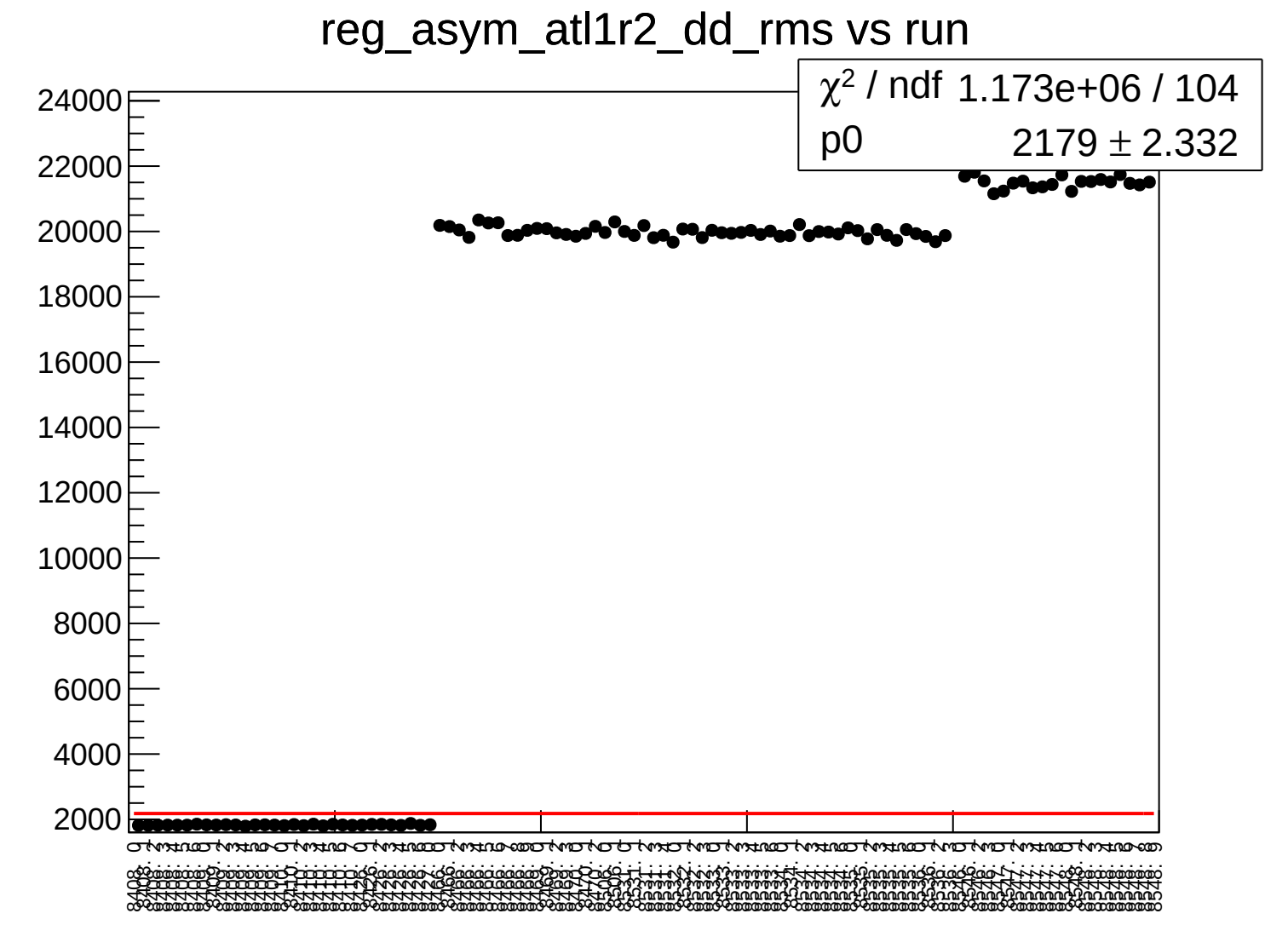

asym_atl1r2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 86.9 / 104
p0 8.37e−14 ± 1.56e−13
pull
Entries 105
Mean 3320
Std Dev 0

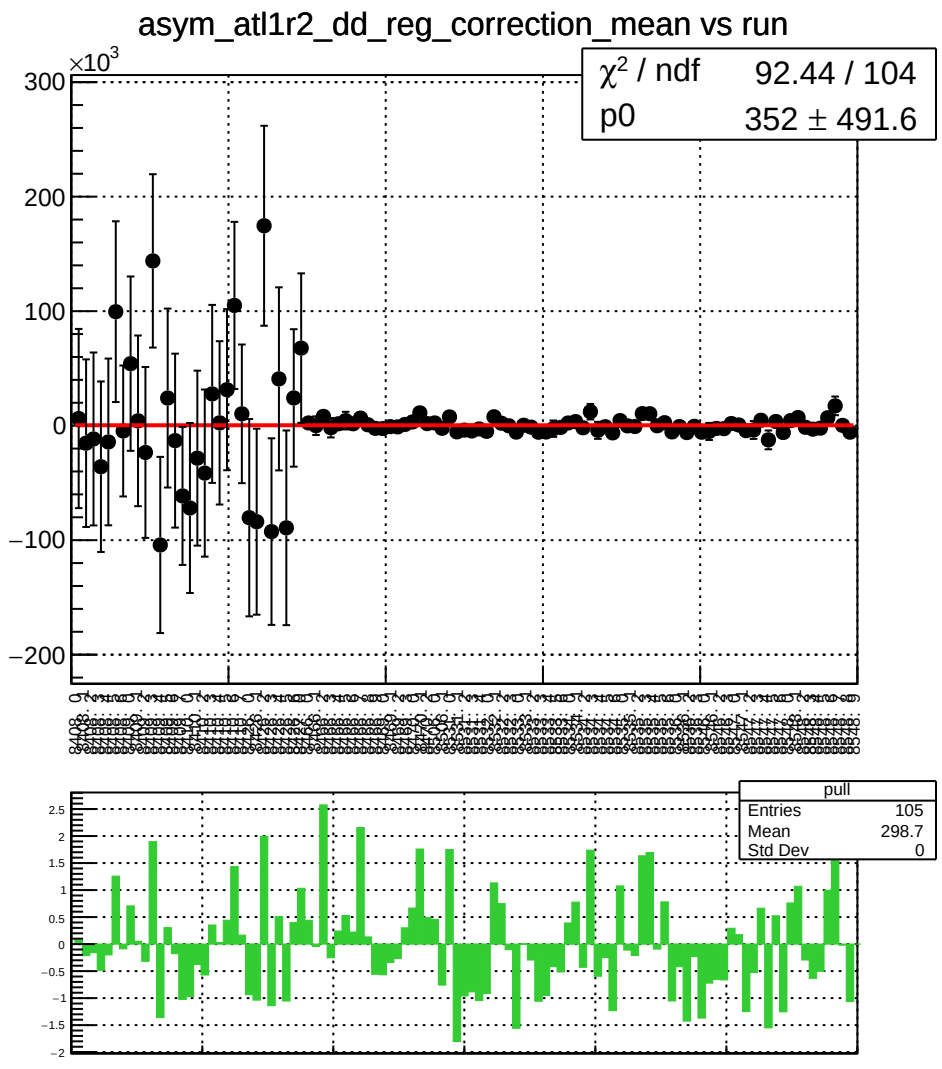

pull1D
Entries 105
Mean 0.0009868
Std Dev 0.9097

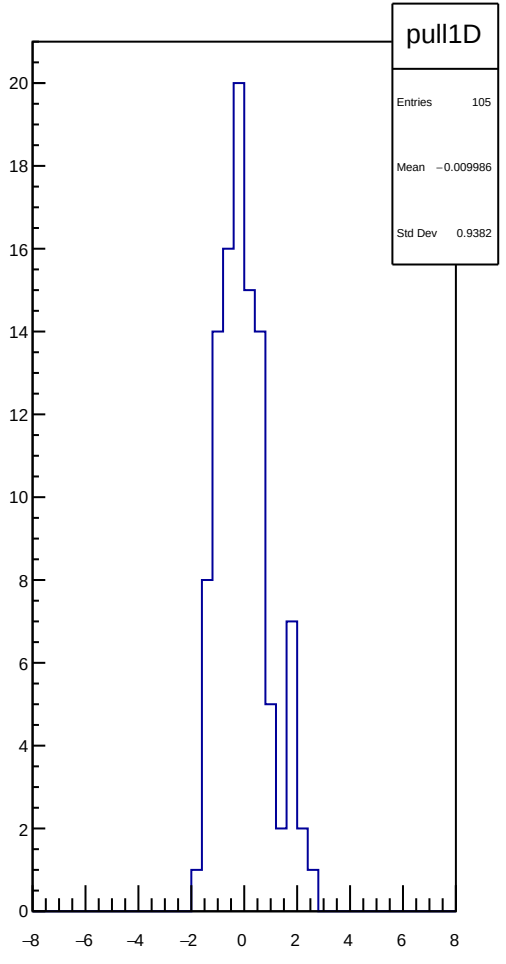

asym_atl1r2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.1e+06 / 104
p0 1.073e−10 ± 1.103e−13
3.5
3
2.5
2
1.5
1
0.5

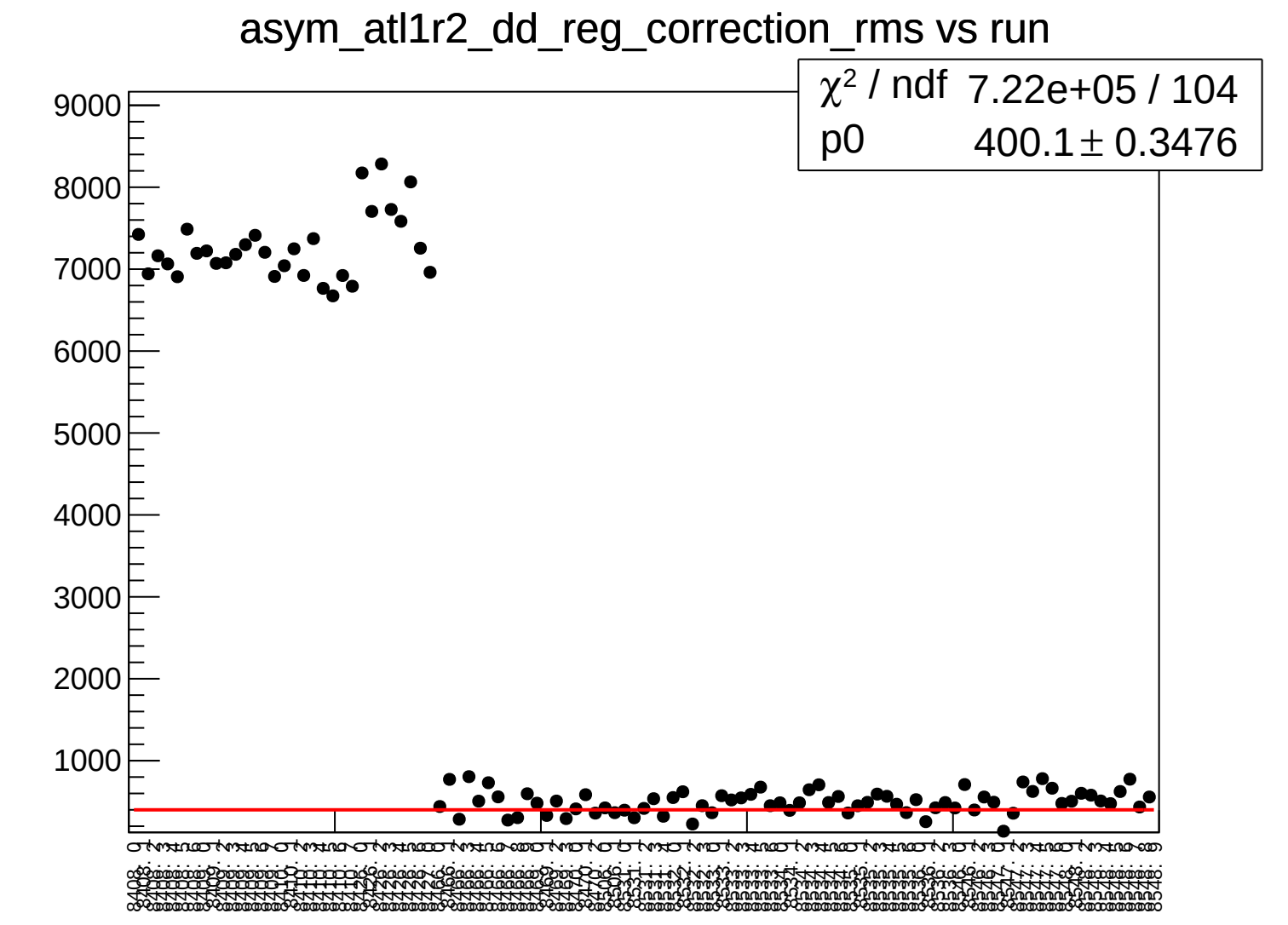

reg_asym_atl1r2_dd_mean vs run
×10^3
χ^2 / ndf 86.51 / 104
p0 1412 ± 3299
pull
Entries 105
Mean 98.78
Std Dev 0

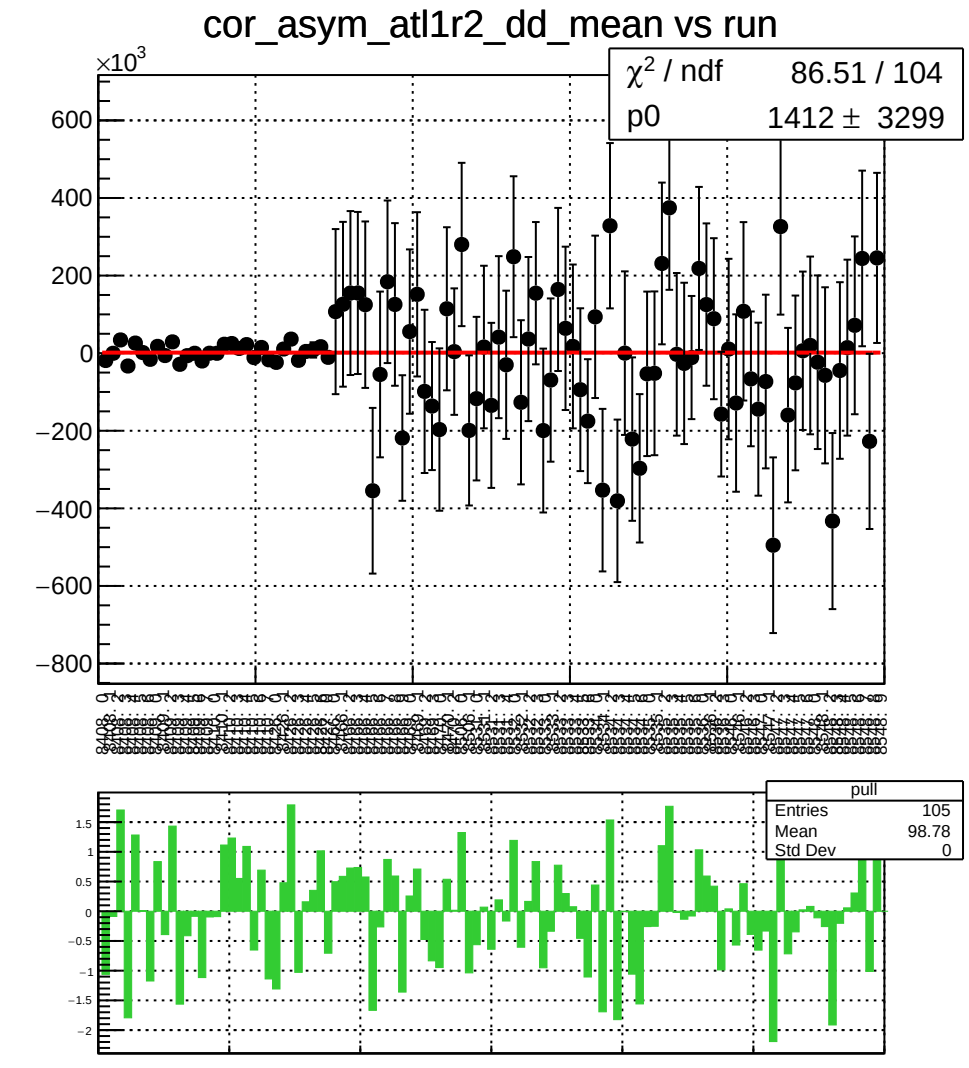

pull1D
Entries 105
Mean −0.04216
Std Dev 0.9067

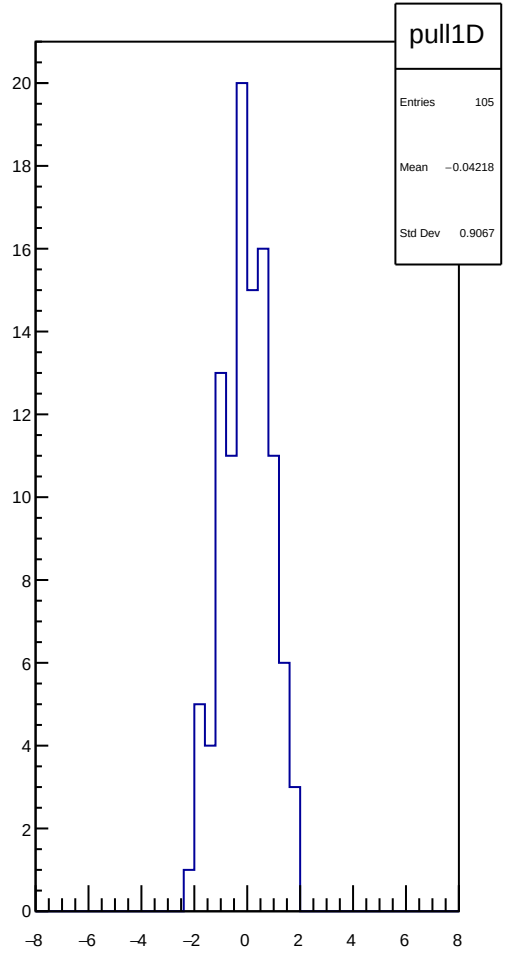

reg_asym_atl1r2_dd_rms vs run
χ^2 / ndf 1.173e+06 / 104
p0 2179 ± 2.332
24000
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000

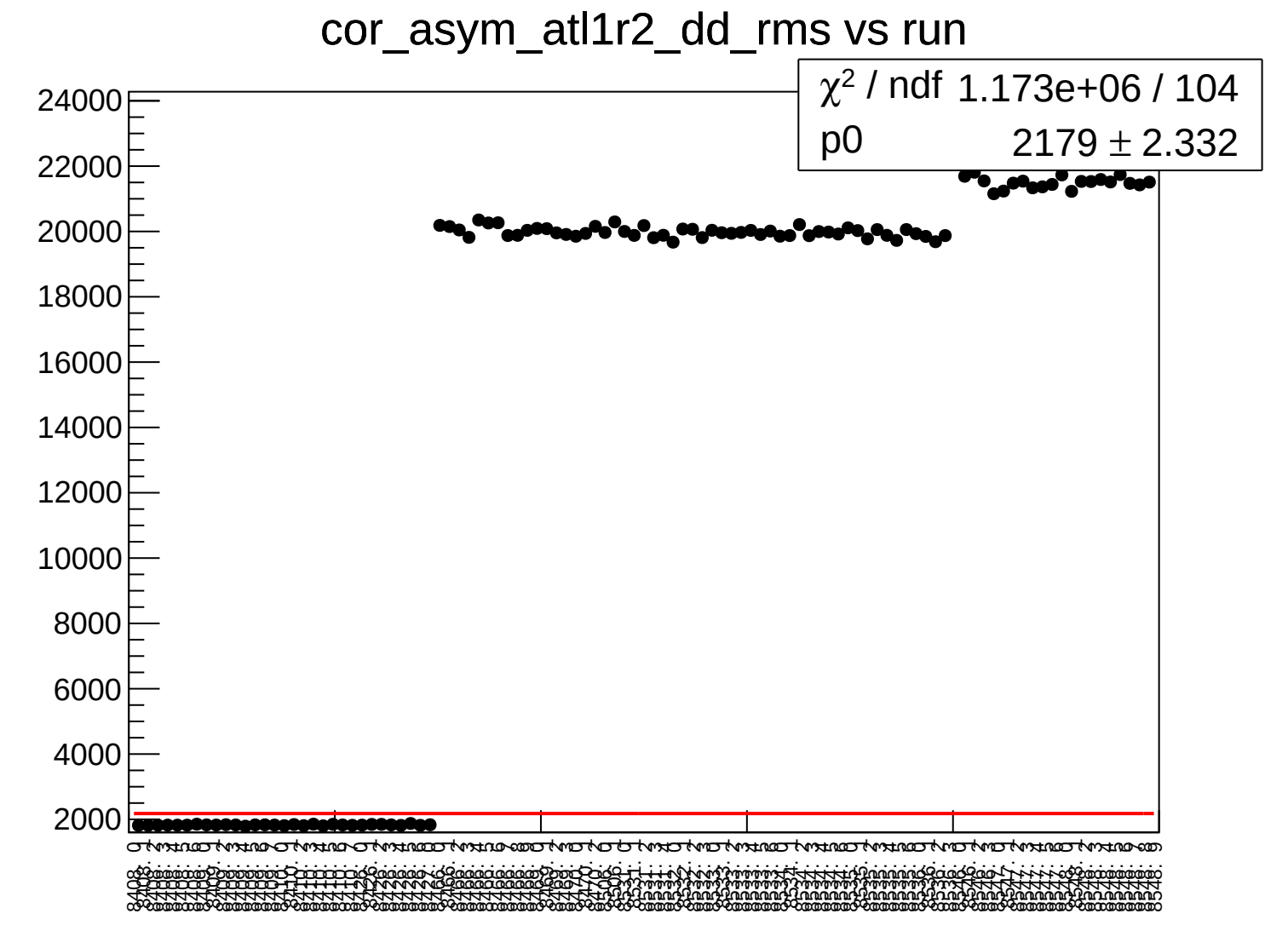

asym_atl1r2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 92.44 / 104
p0 352 ± 491.6
300
200
100
0
−100
−200
pull
Entries 105
Mean 298.7
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

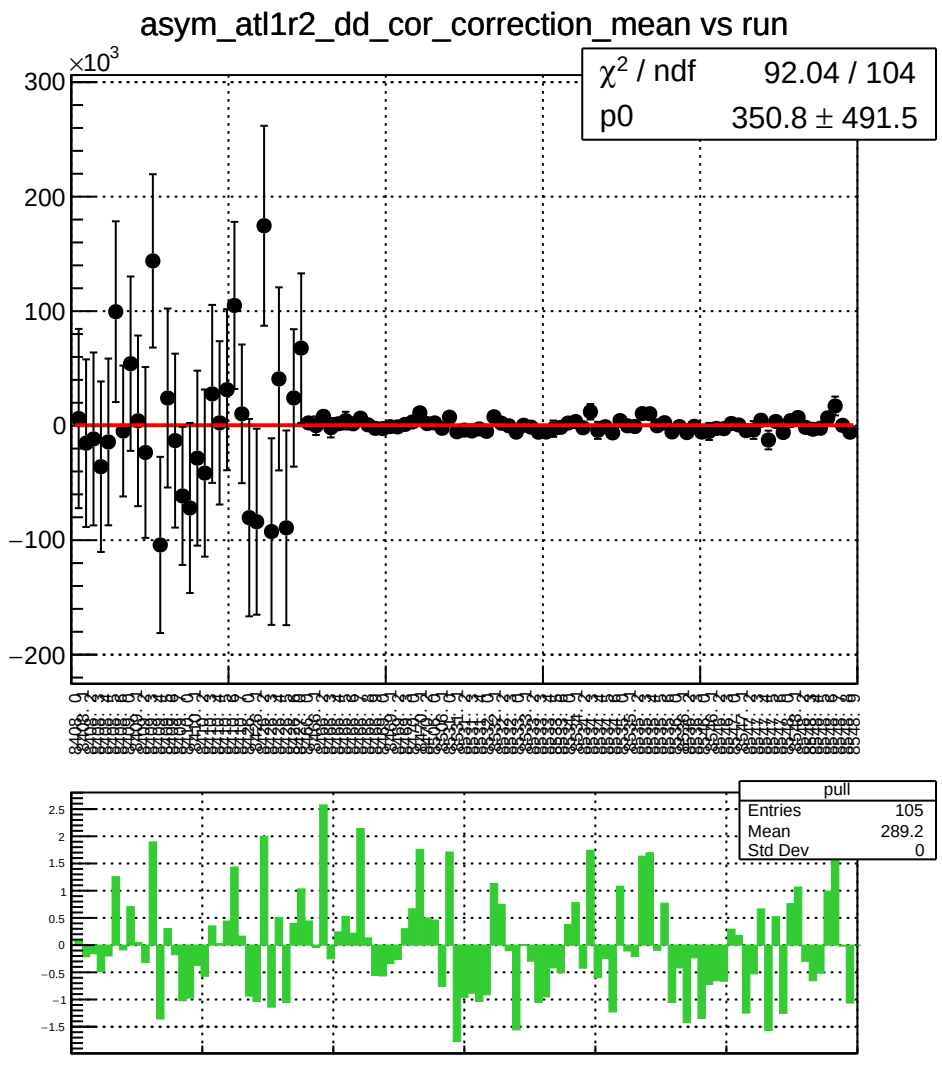

pull1D
Entries 105
Mean −0.009986
Std Dev 0.9382
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

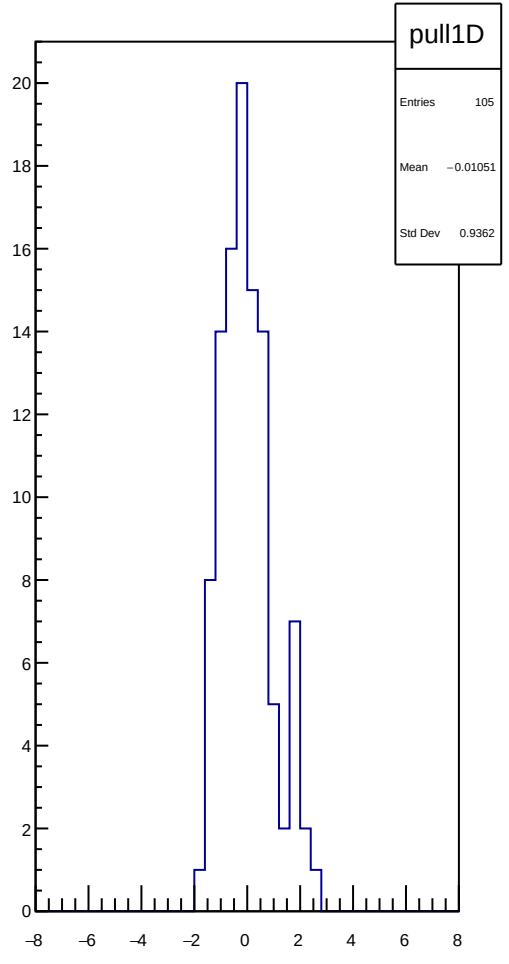

asym_atl1r2_dd_reg_correction_rms vs run
χ² / ndf 7.22e+05 / 104
p0 400.1 ± 0.3476
9000
8000
7000
6000
5000
4000
3000
2000
1000

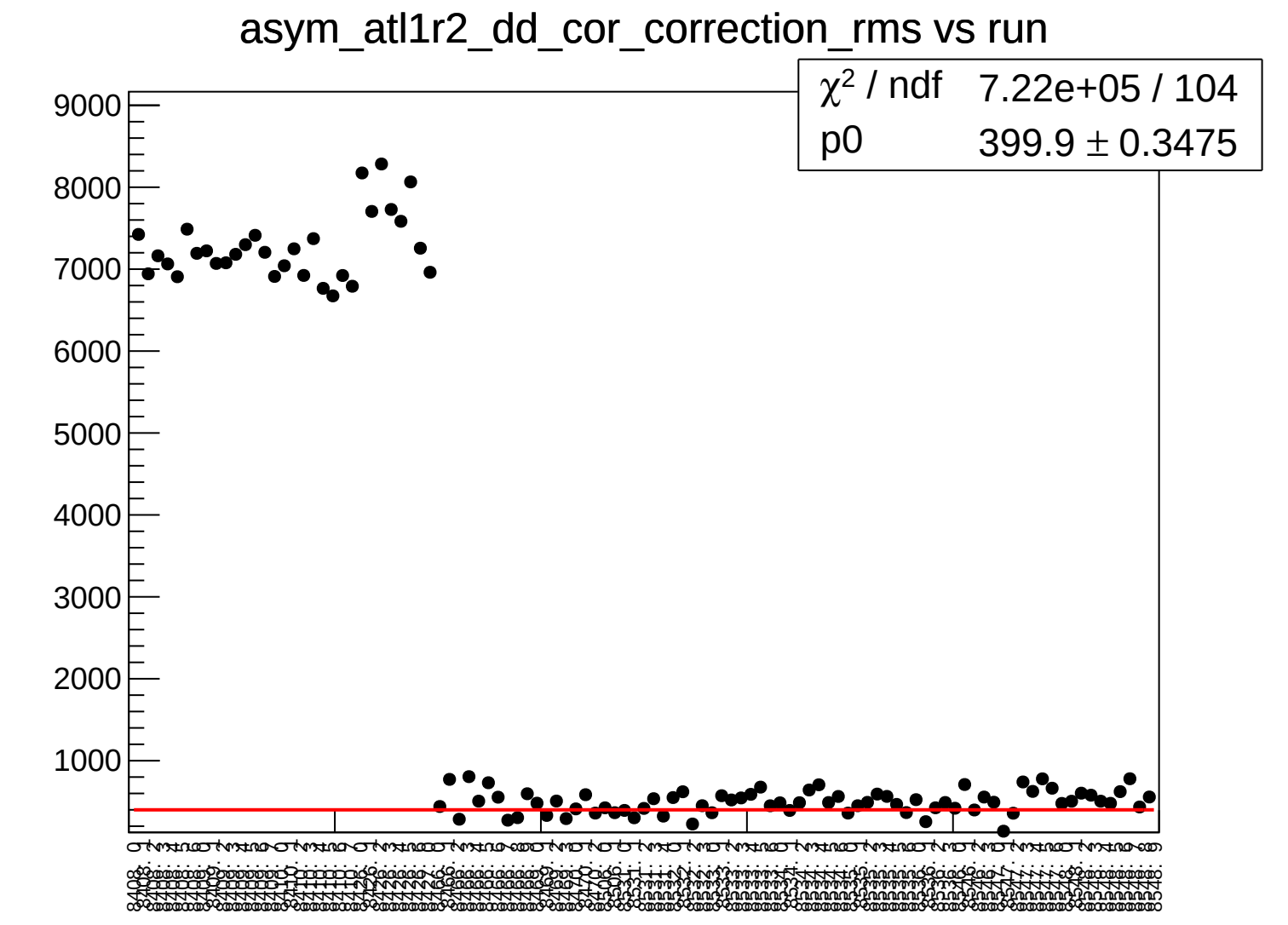

cor_asym_atl1r2_dd_mean vs run
×10^3
χ^2 / ndf 86.51 / 104
p0 1412 ± 3299
600
400
200
0
−200
−400
−600
−800
pull
Entries 105
Mean 98.78
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

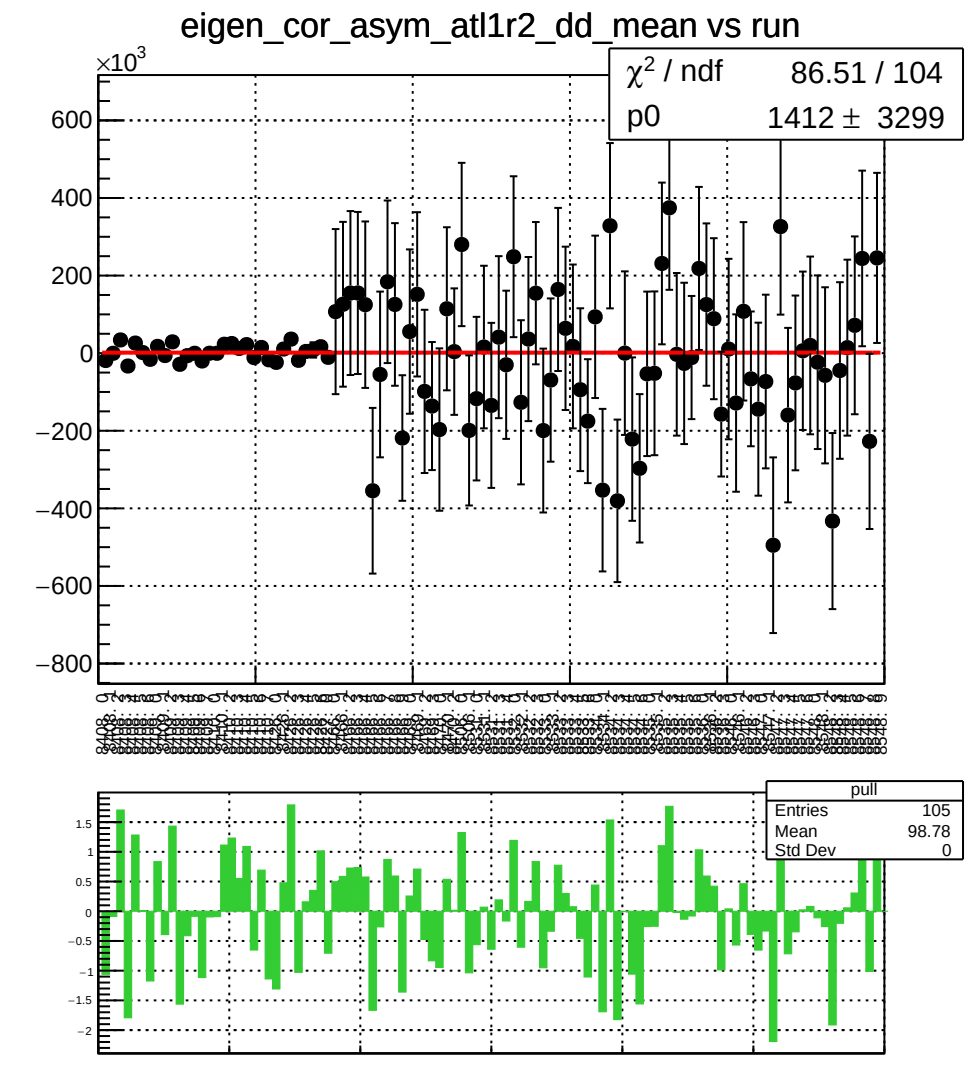

pull1D
Entries 105
Mean −0.04218
Std Dev 0.9067
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

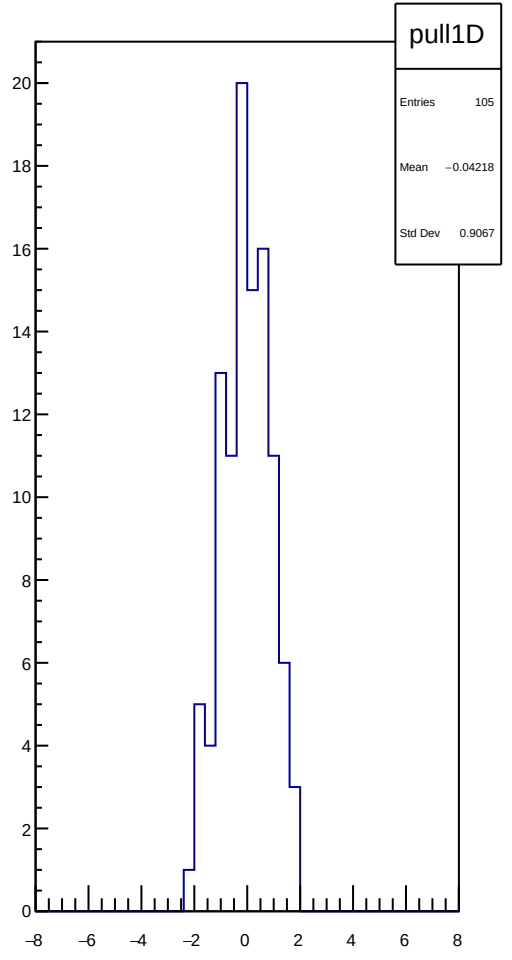

cor_asym_atl1r2_dd_rms vs run
χ² / ndf 1.173e+06 / 104
p0 2179 ± 2.332
24000
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000

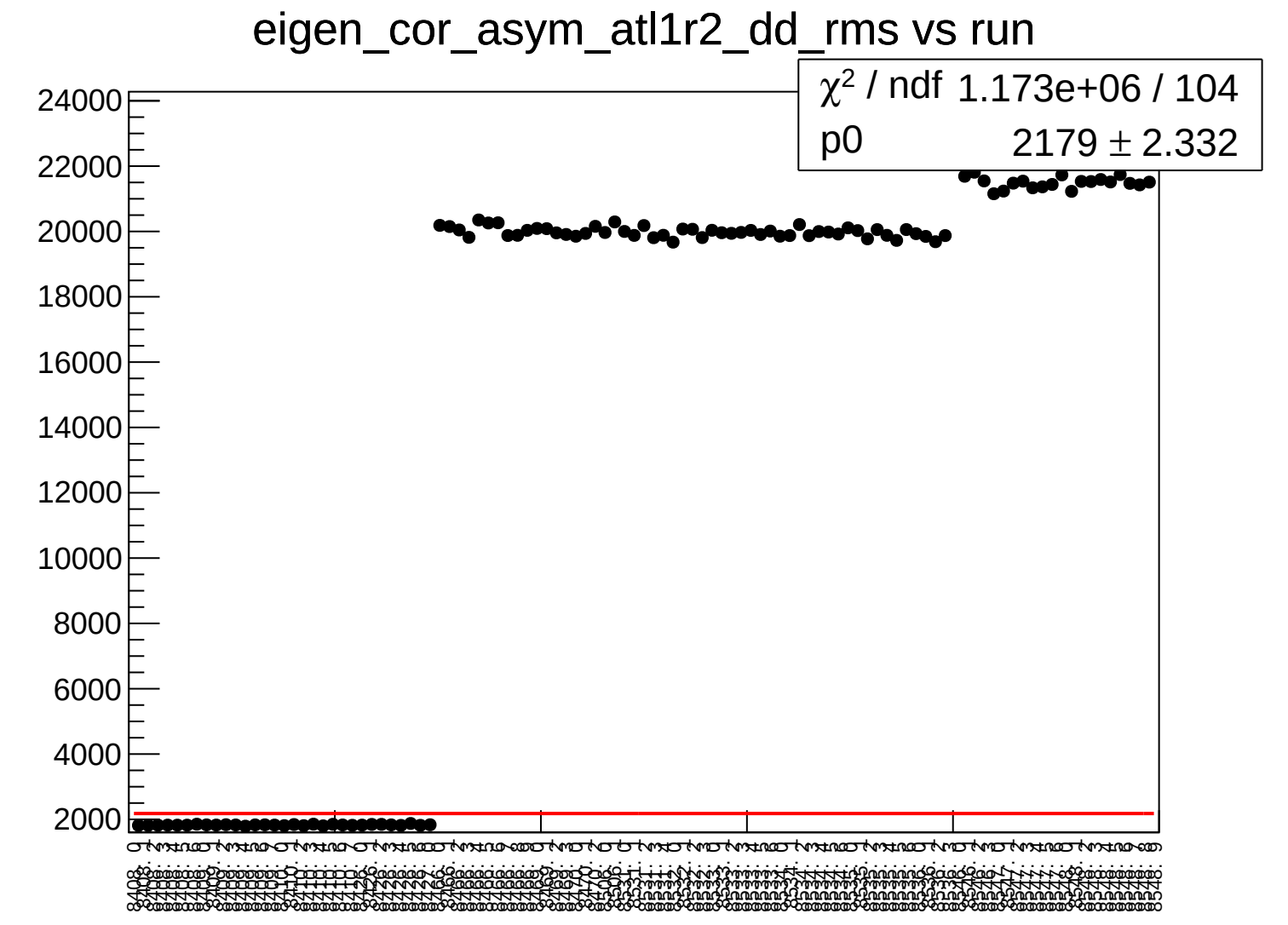

asym_atl1r2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 92.04 / 104
p0 350.8 ± 491.5
300
200
100
0
−100
−200
pull
Entries 105
Mean 289.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

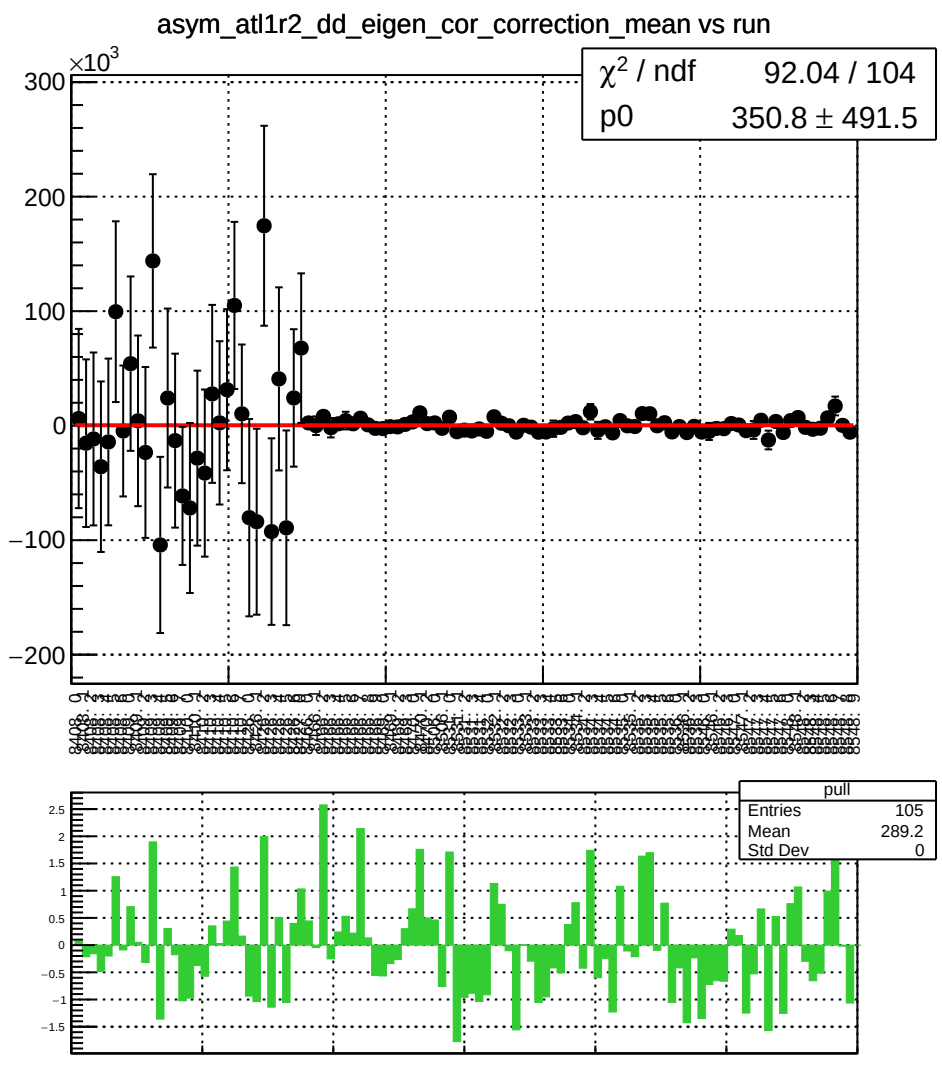

pull1D
Entries 105
Mean −0.01051
Std Dev 0.9362
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

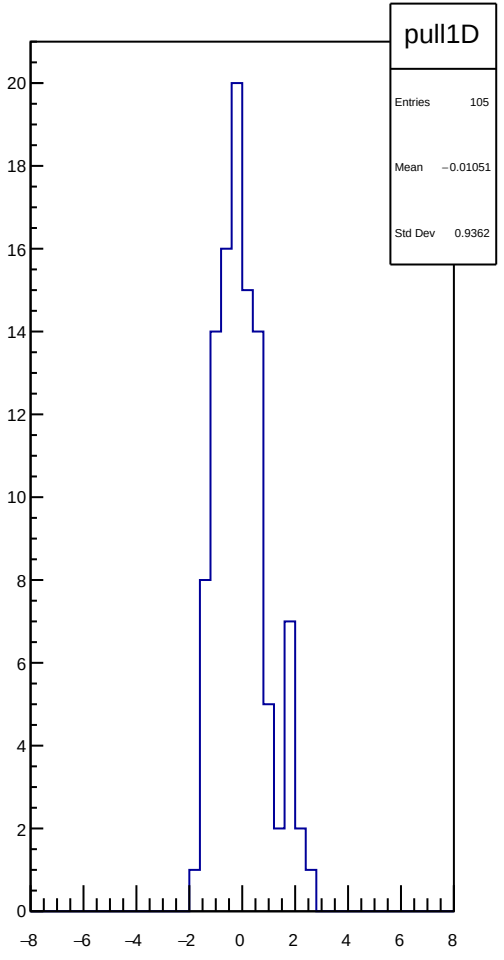

asym_atl1r2_dd_cor_correction_rms vs run
χ² / ndf 7.22e+05 / 104
p0 399.9 ± 0.3475
9000
8000
7000
6000
5000
4000
3000
2000
1000

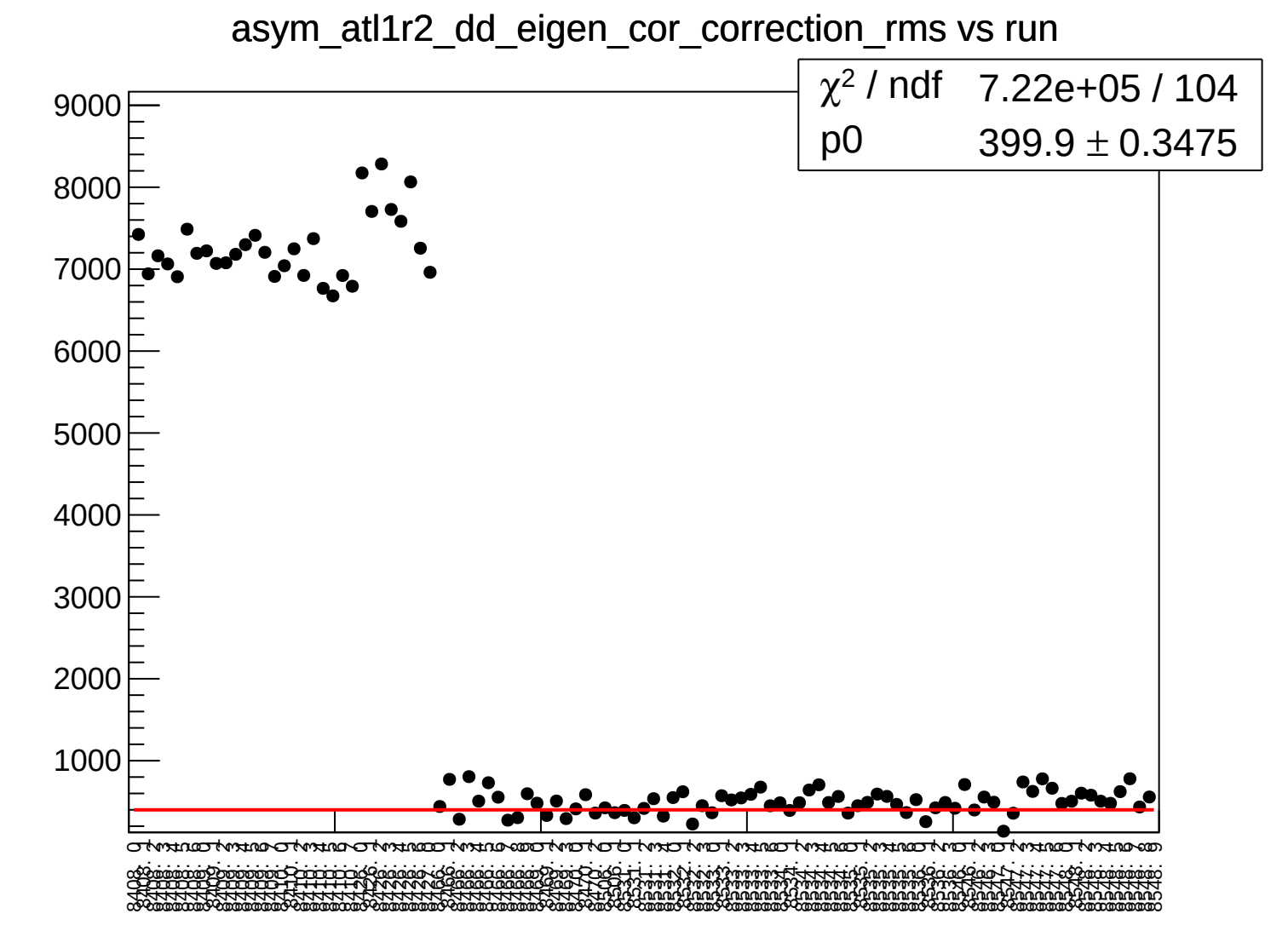

eigen_cor_asym_atl1r2_dd_mean vs run
×10^3
600
400
200
0
−200
−400
−600
−800
χ² / ndf 86.51 / 104
p0 1412 ± 3299
pull
Entries 105
Mean 98.78
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

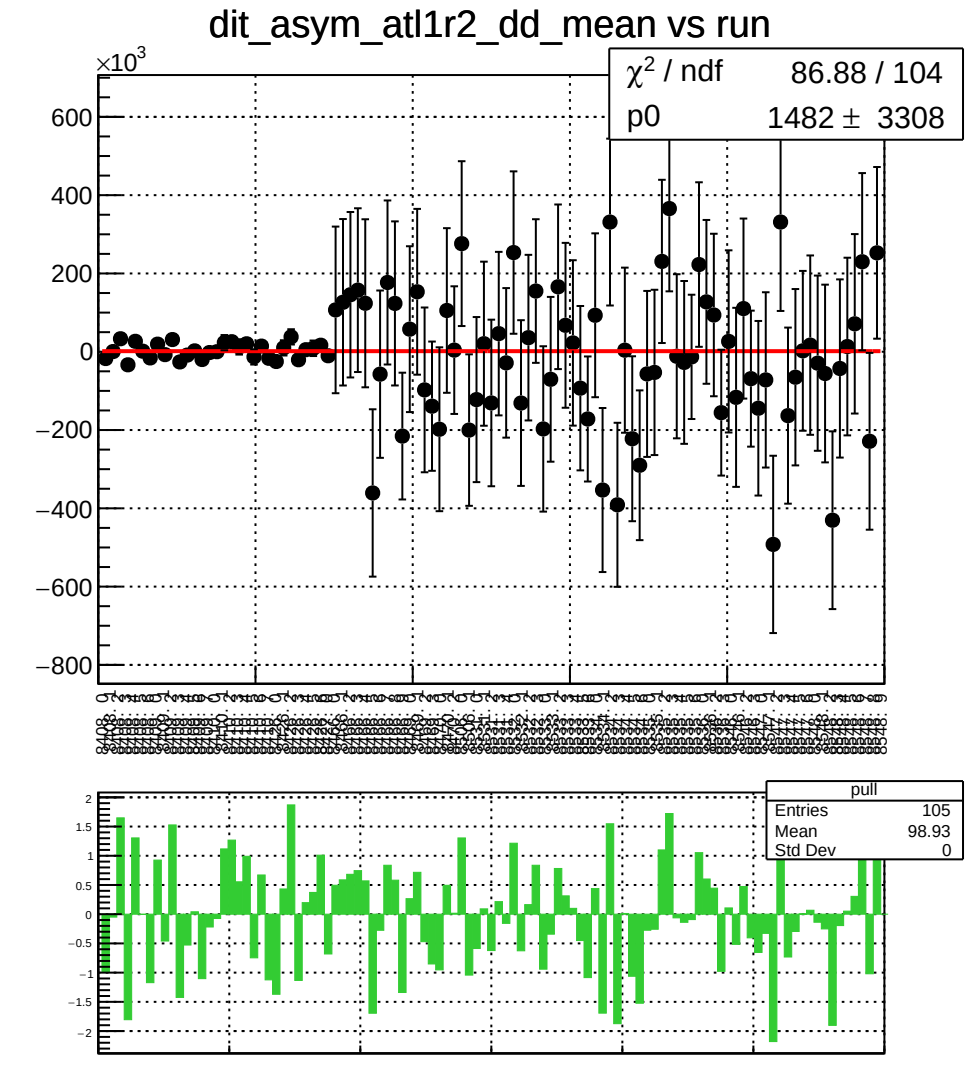

pull1D
Entries 105
Mean −0.04218
Std Dev 0.9067
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

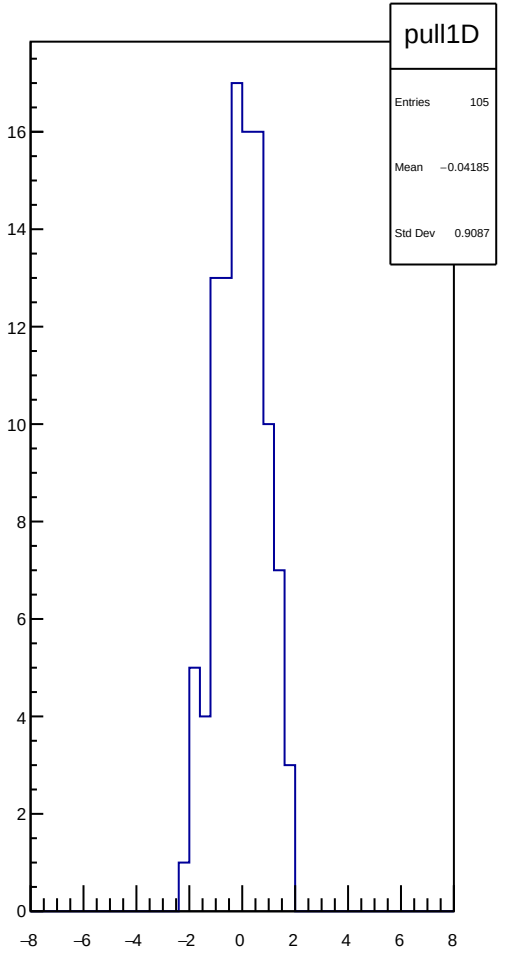

eigen_cor_asym_atl1r2_dd_rms vs run
χ² / ndf 1.173e+06 / 104
p0 2179 ± 2.332
24000
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000

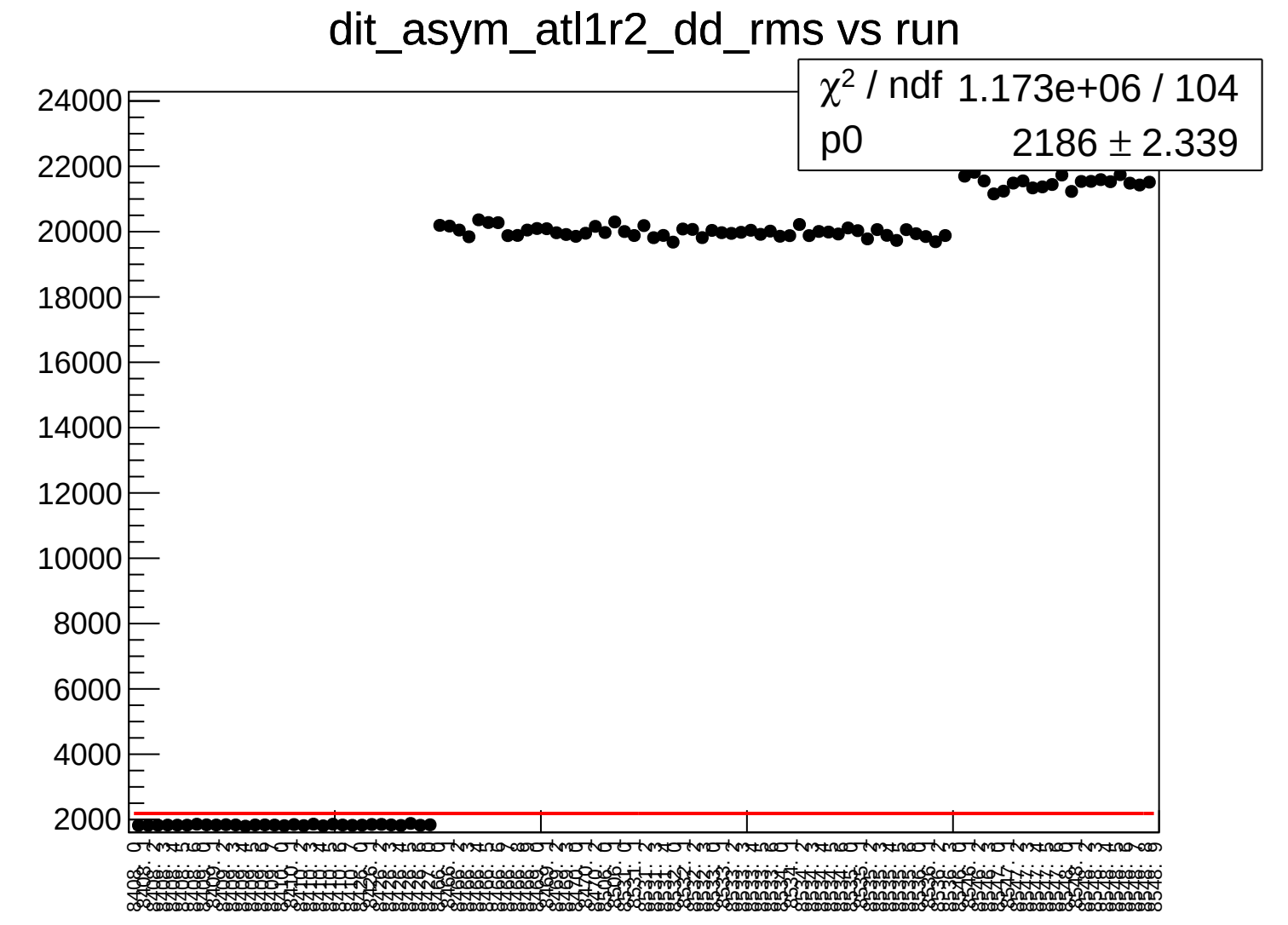

asym_atl1r2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 92.04 / 104
p0 350.8 ± 491.5
300
200
100
0
−100
−200
pull
Entries 105
Mean 289.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

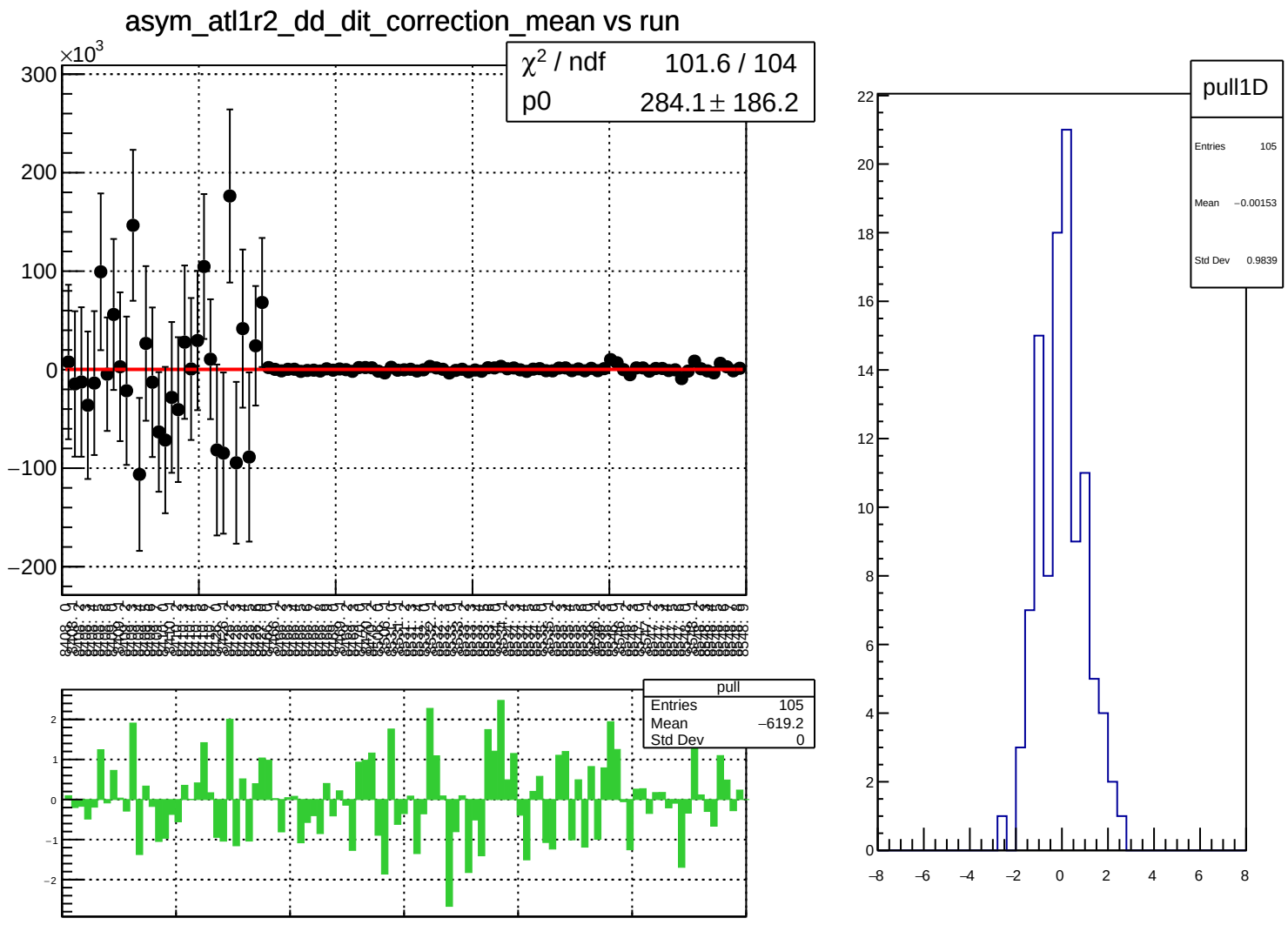

pull1D
Entries 105
Mean −0.01051
Std Dev 0.9362
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

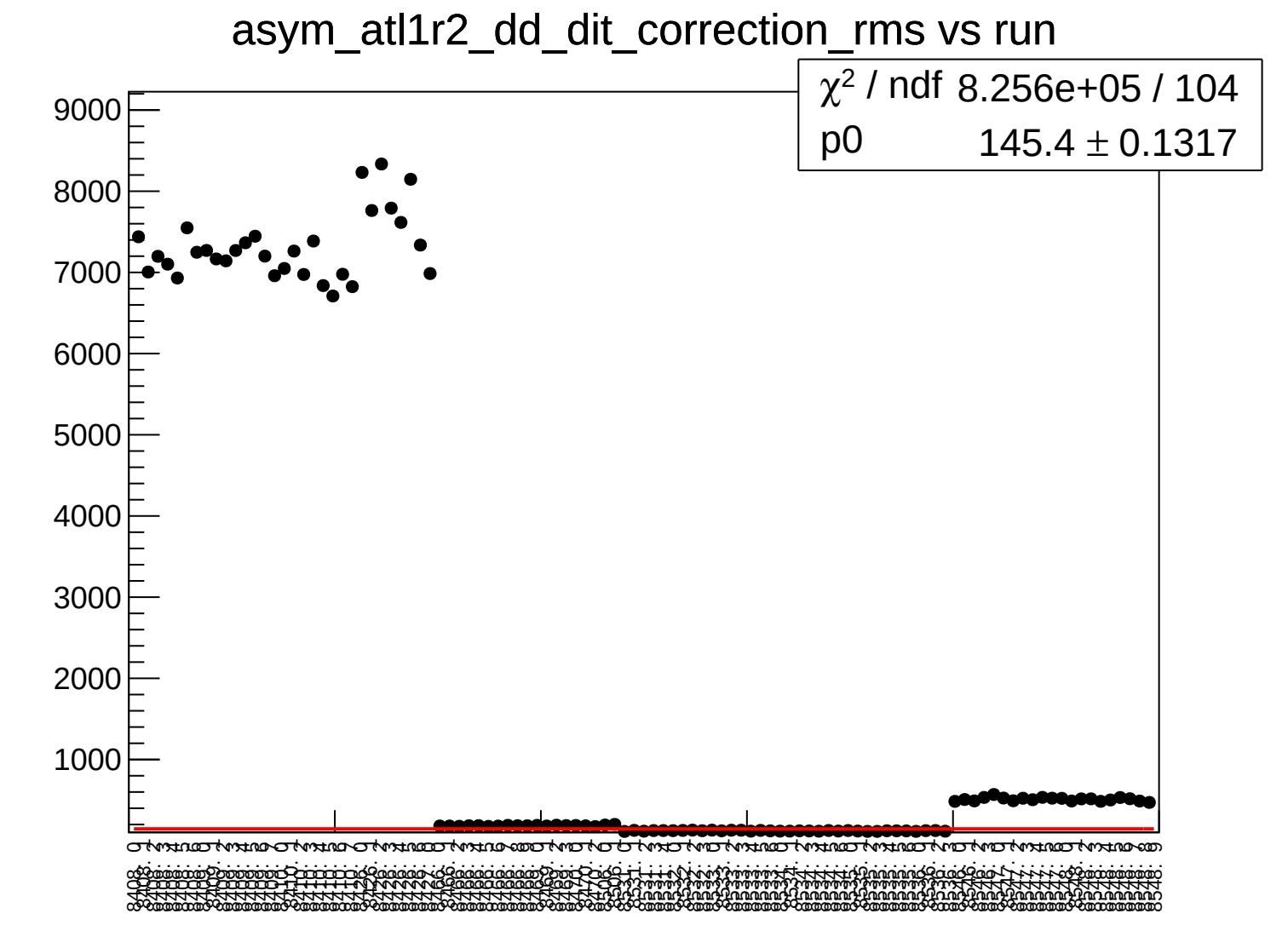

asym_atl1r2_dd_eigen_cor_correction_rms vs run
χ² / ndf 7.22e+05 / 104
p0 399.9 ± 0.3475
9000
8000
7000
6000
5000
4000
3000
2000
1000

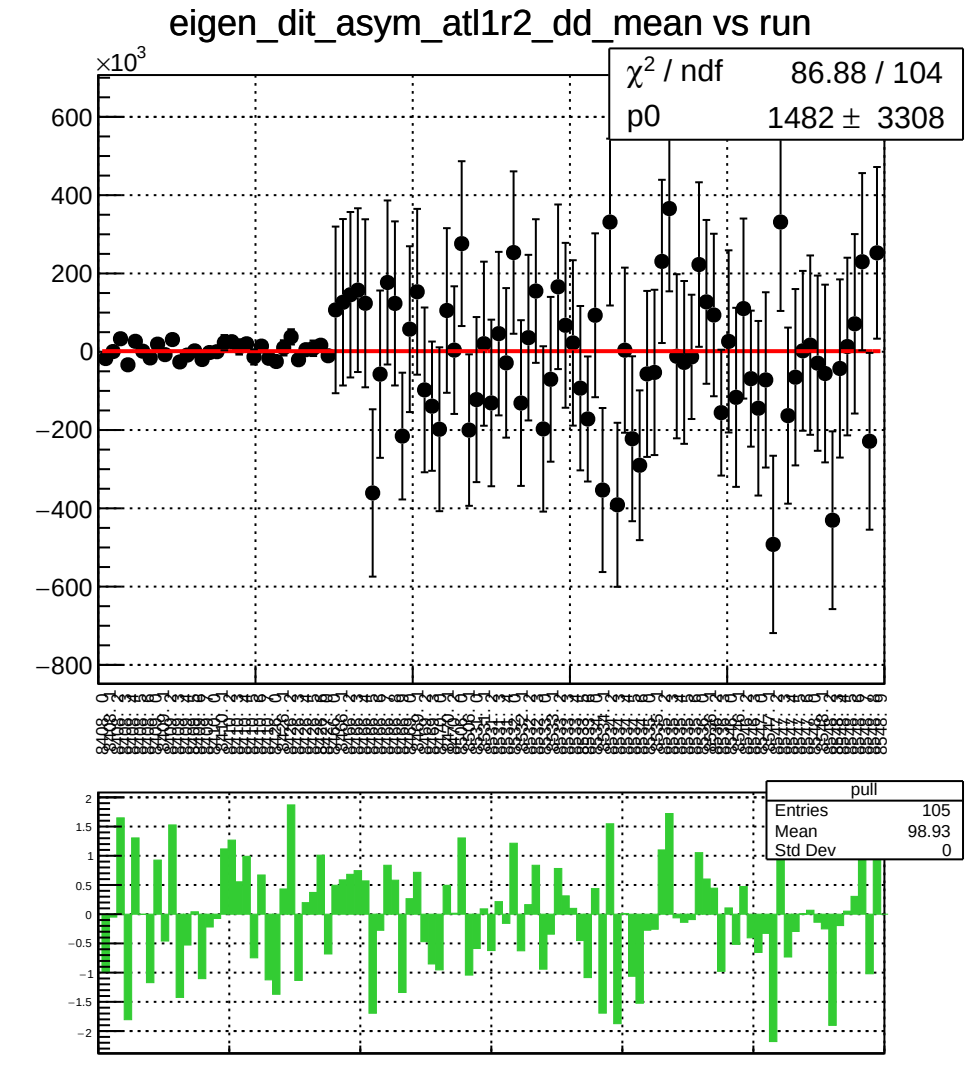

dit_asym_atl1r2_dd_mean vs run
×10^3
χ^2 / ndf 86.88 / 104
p0 1482 ± 3308
600
400
200
0
−200
−400
−600
−800
pull
Entries 105
Mean 98.93
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

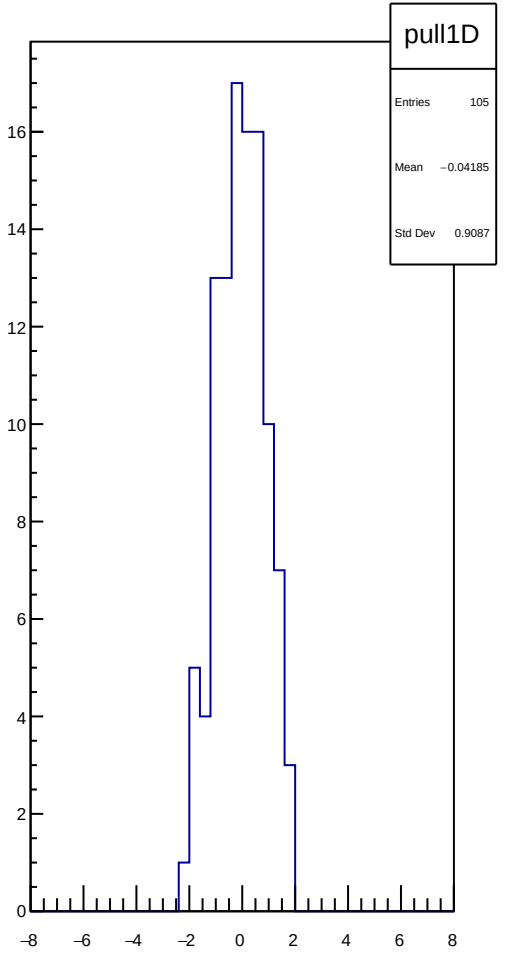

pull1D
Entries 105
Mean −0.04185
Std Dev 0.9087
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

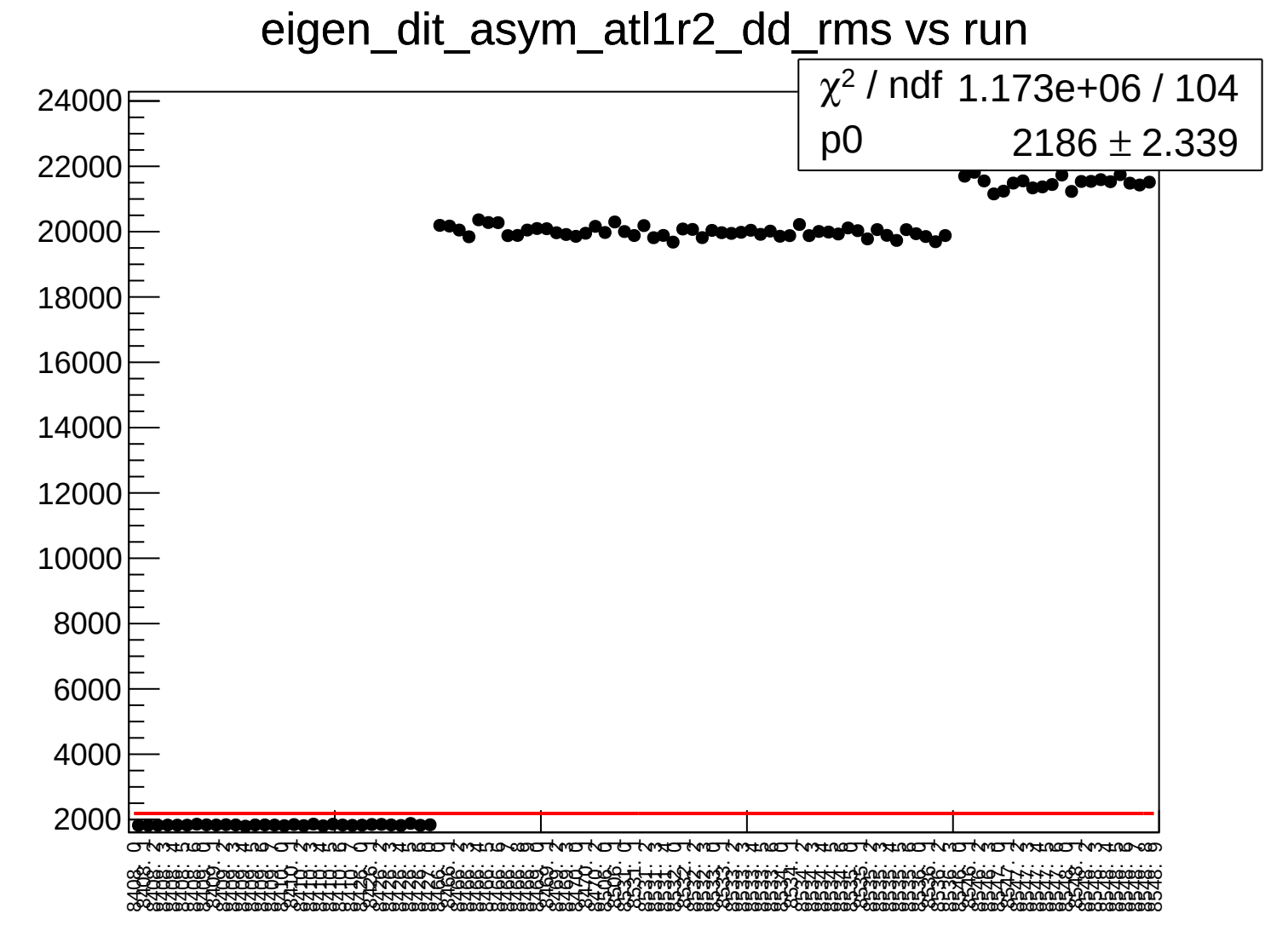

dit_asym_atl1r2_dd_rms vs run
χ² / ndf 1.173e+06 / 104
p0 2186 ± 2.339
24000
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000

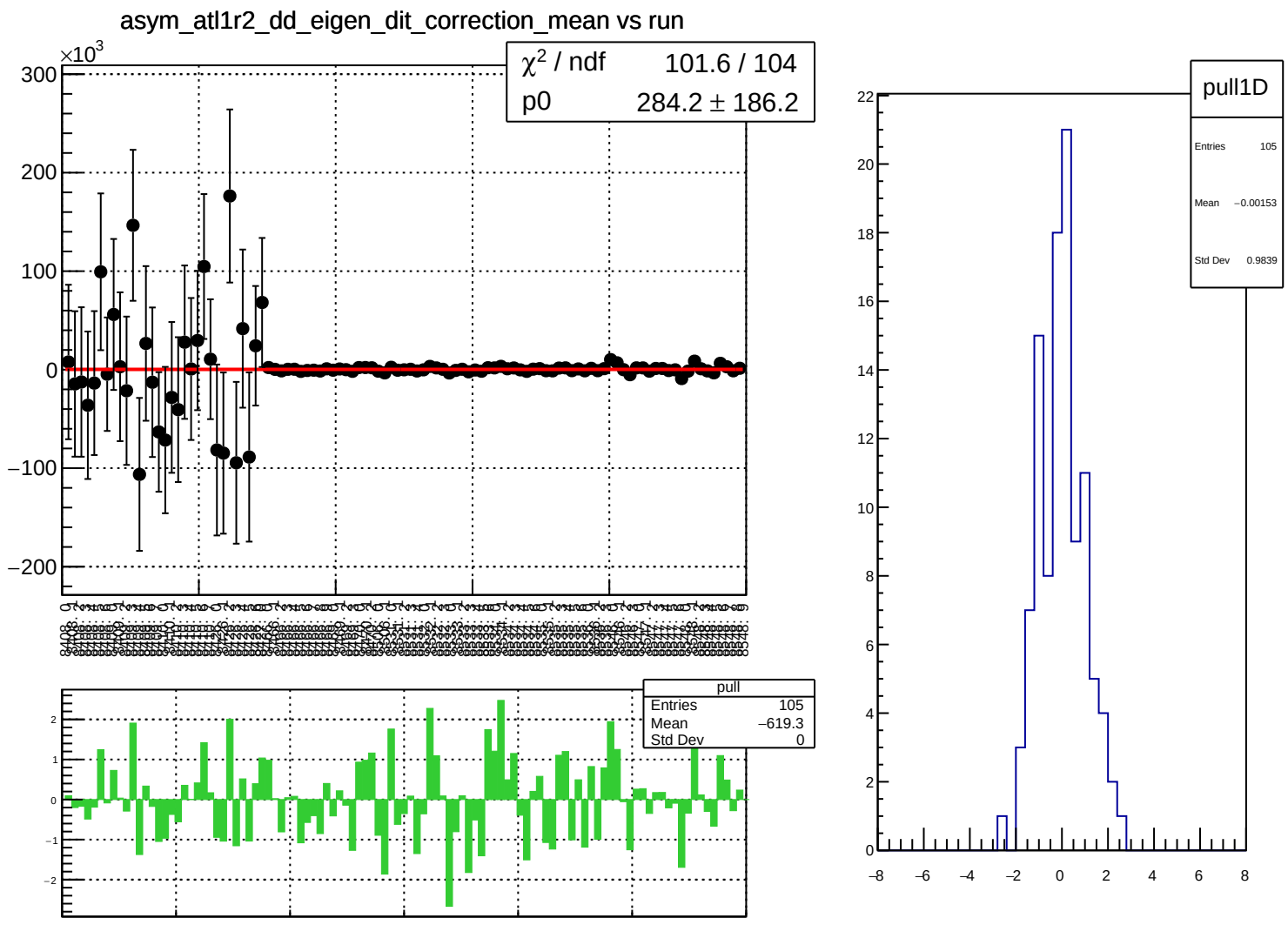

asym_atl1r2_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 101.6 / 104
p0 284.1 ± 186.2
300
200
100
0
−100
−200
pull
Entries 105
Mean −619.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.00153
Std Dev 0.9839
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

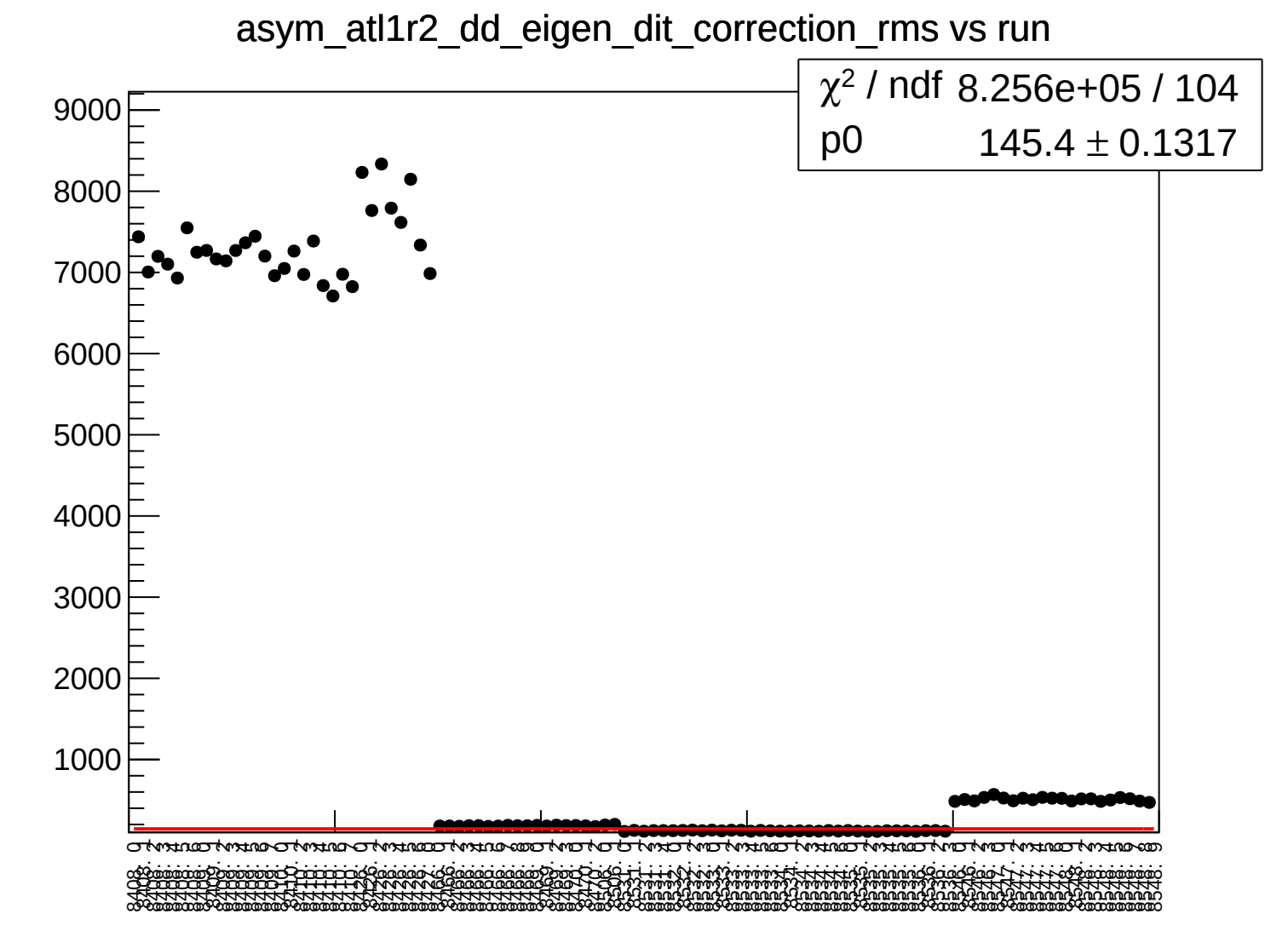

asym_atl1r2_dd_dit_correction_rms vs run
χ² / ndf 8.256e+05 / 104
p0 145.4 ± 0.1317
9000
8000
7000
6000
5000
4000
3000
2000
1000

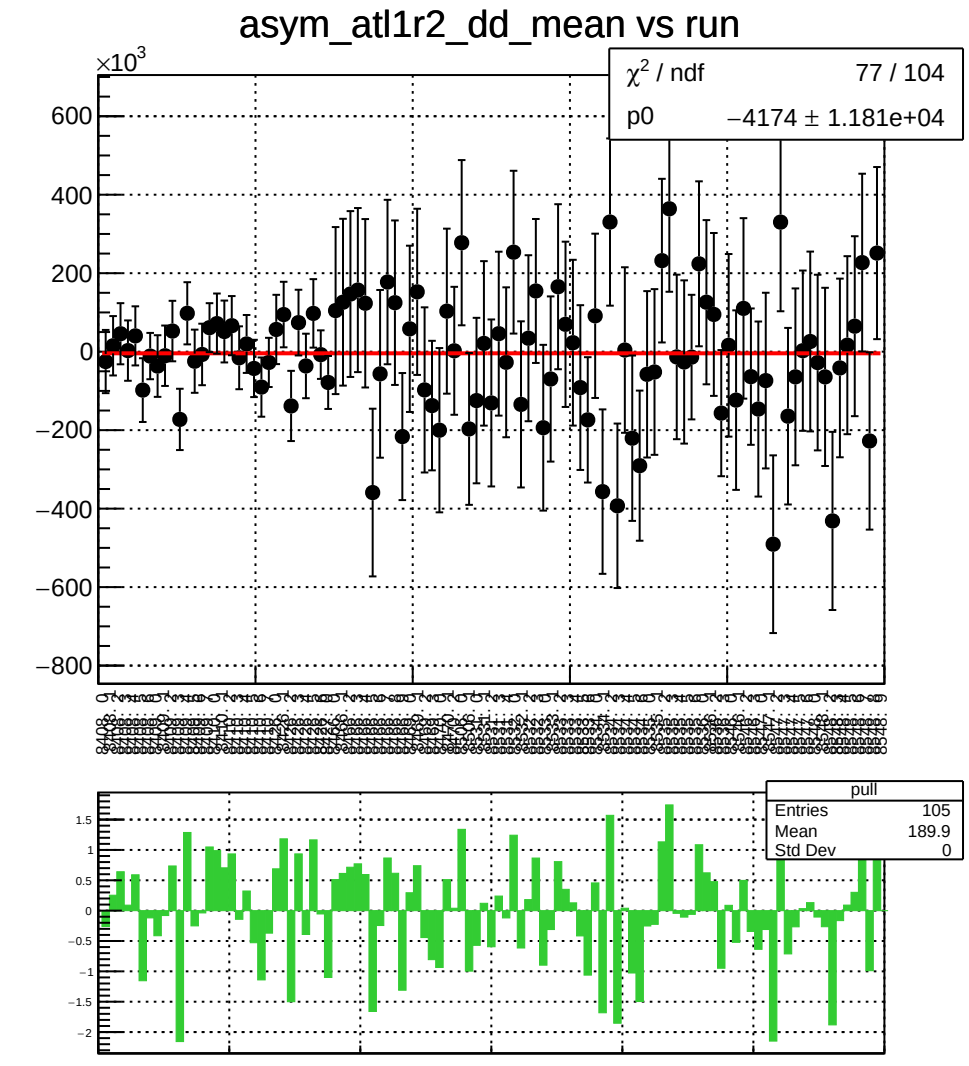

eigen_dit_asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 86.88 / 104
p0 1482 ± 3308
600
400
200
0
−200
−400
−600
−800
pull
Entries 105
Mean 98.93
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

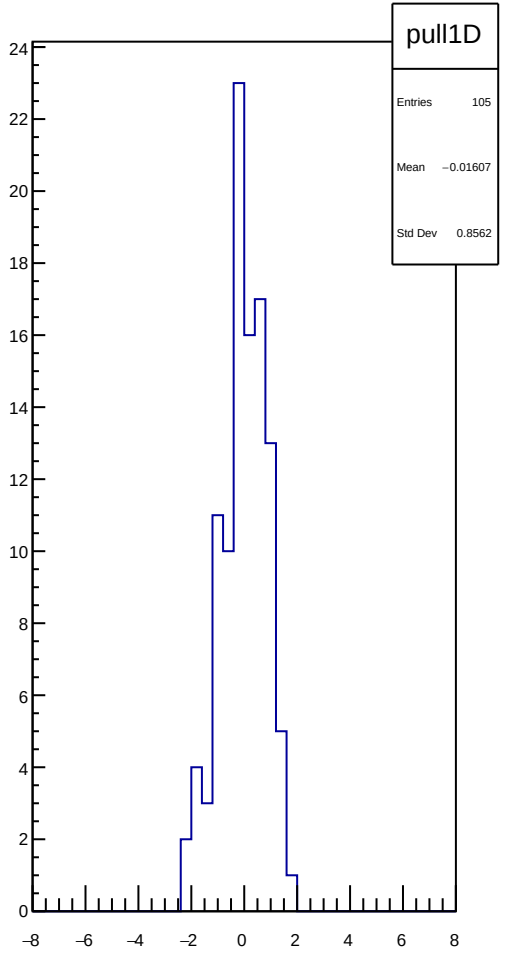

pull1D
Entries 105
Mean −0.04185
Std Dev 0.9087
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

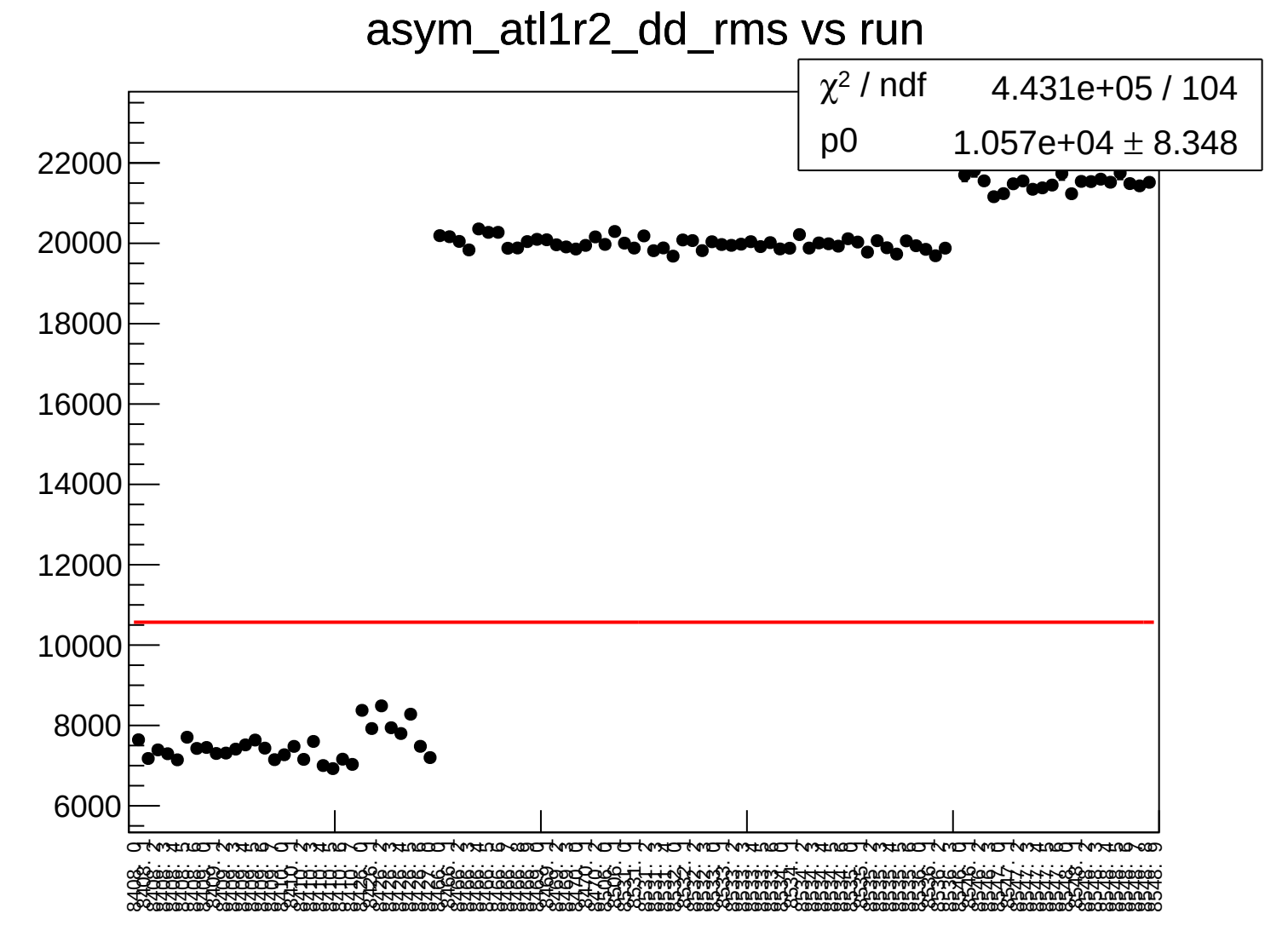

eigen_dit_asym_atl1r2_dd_rms vs run
χ² / ndf 1.173e+06 / 104
p0 2186 ± 2.339
24000
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000

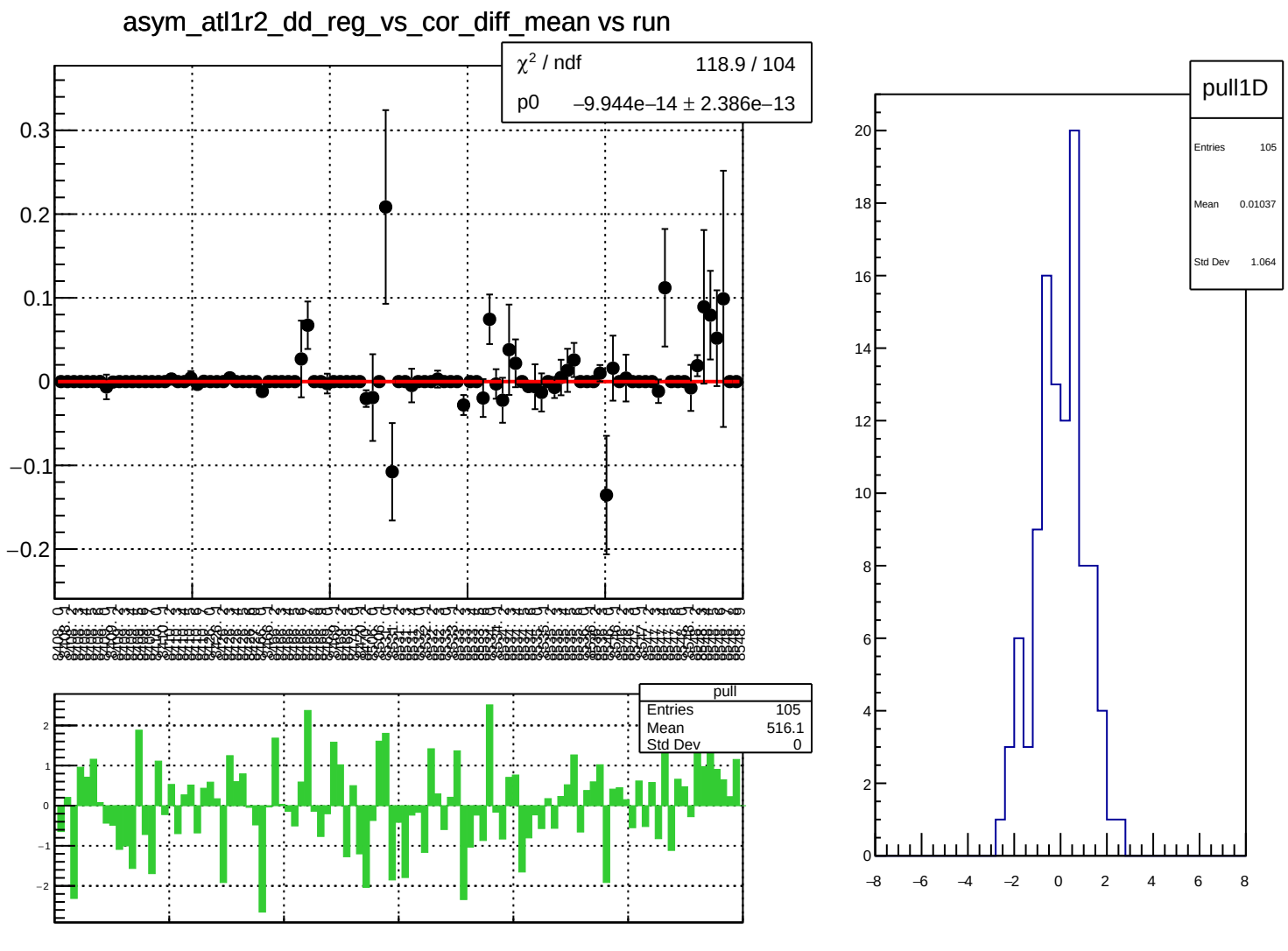

asym_atl1r2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 101.6 / 104
p0 284.2 ± 186.2
pull
Entries 105
Mean −619.3
Std Dev 0
pull1D
Entries 105
Mean −0.00153
Std Dev 0.9839

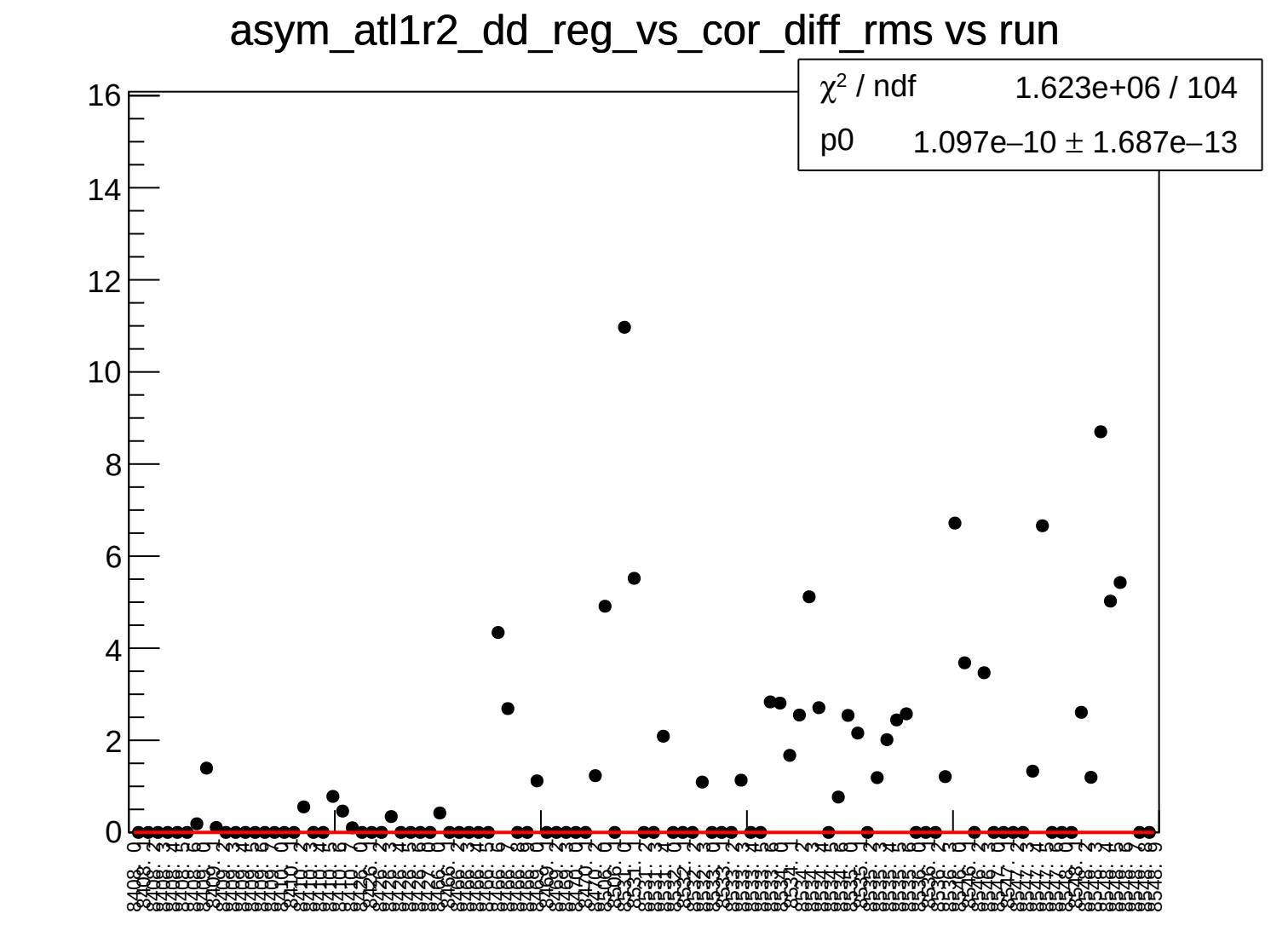

asym_atl1r2_dd_eigen_dit_correction_rms vs run
χ² / ndf 8.256e+05 / 104
p0 145.4 ± 0.1317
9000
8000
7000
6000
5000
4000
3000
2000
1000

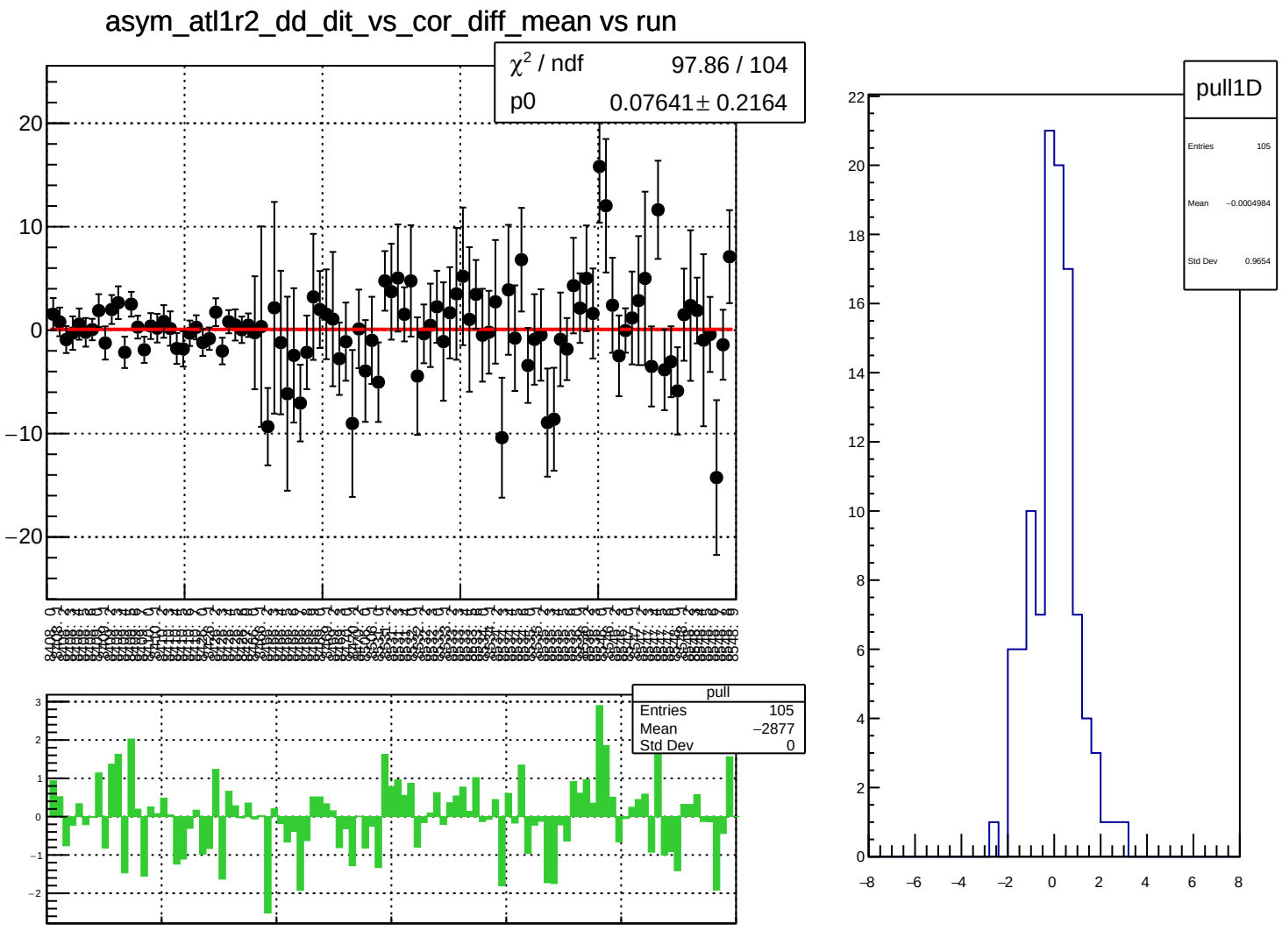

asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 77 / 104
p0 −4174 ± 1.181e+04
600
400
200
0
−200
−400
−600
−800
pull
Entries 105
Mean 189.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

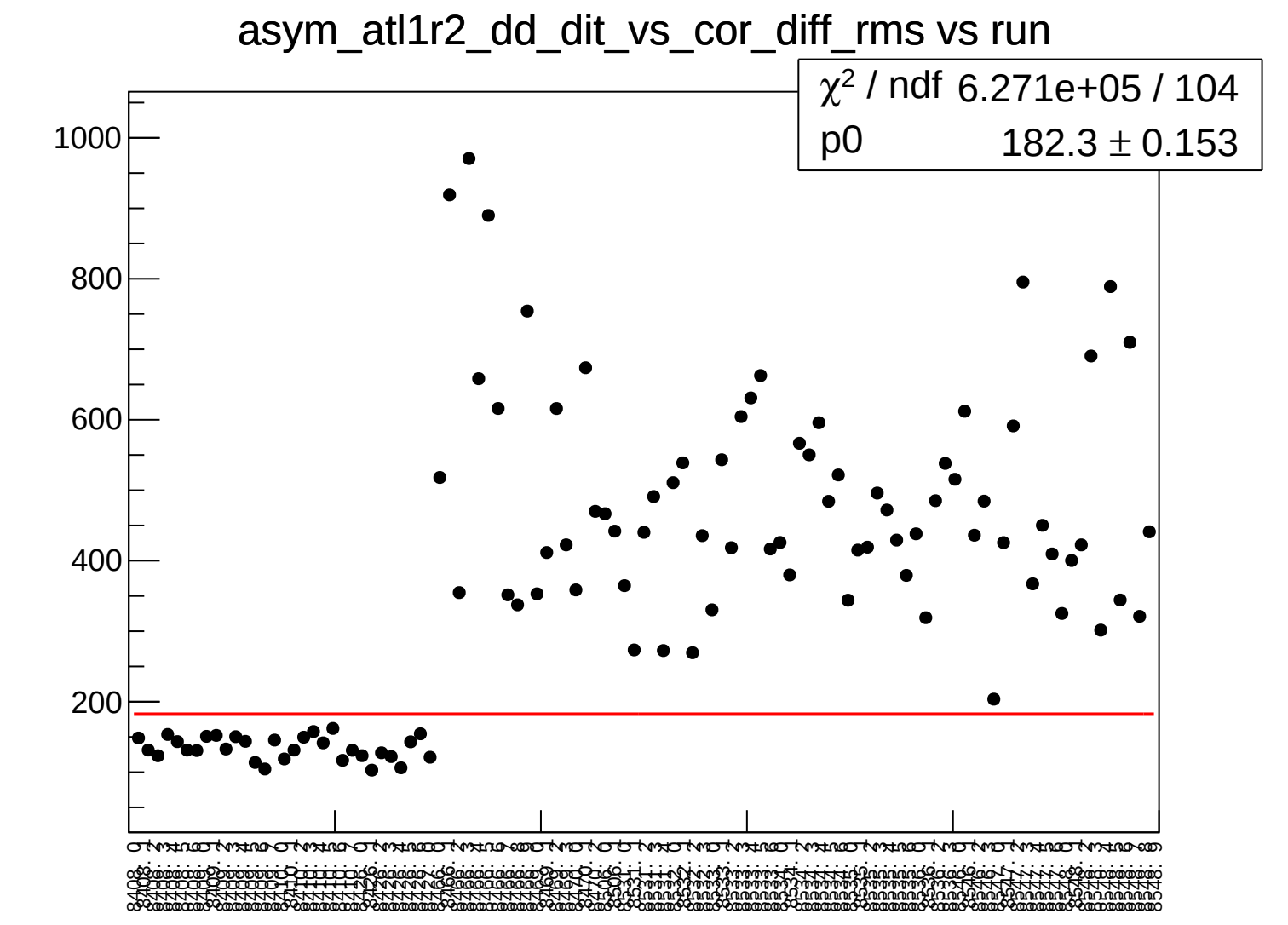

pull1D
Entries 105
Mean −0.01607
Std Dev 0.8562
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

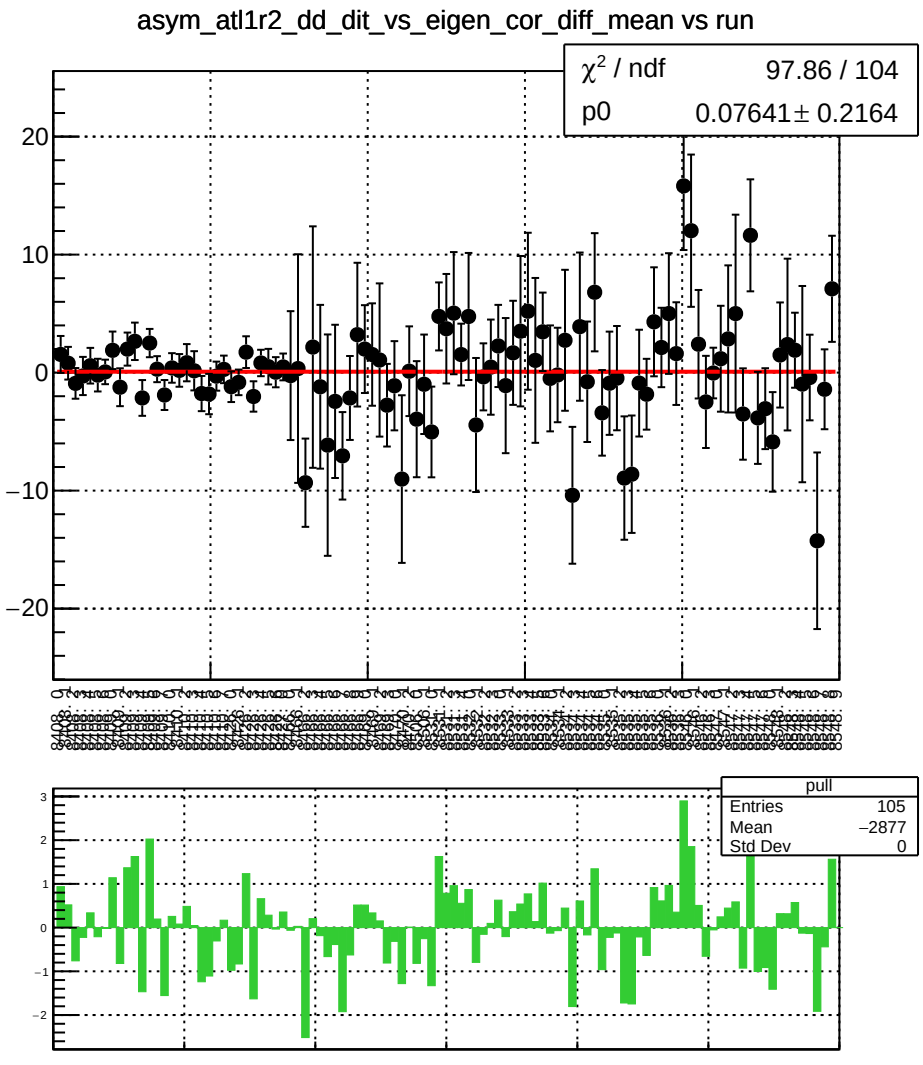

asym_atl1r2_dd_rms vs run
χ2 / ndf 4.431e+05 / 104
p0 1.057e+04 ± 8.348
22000
20000
18000
16000
14000
12000
10000
8000
6000

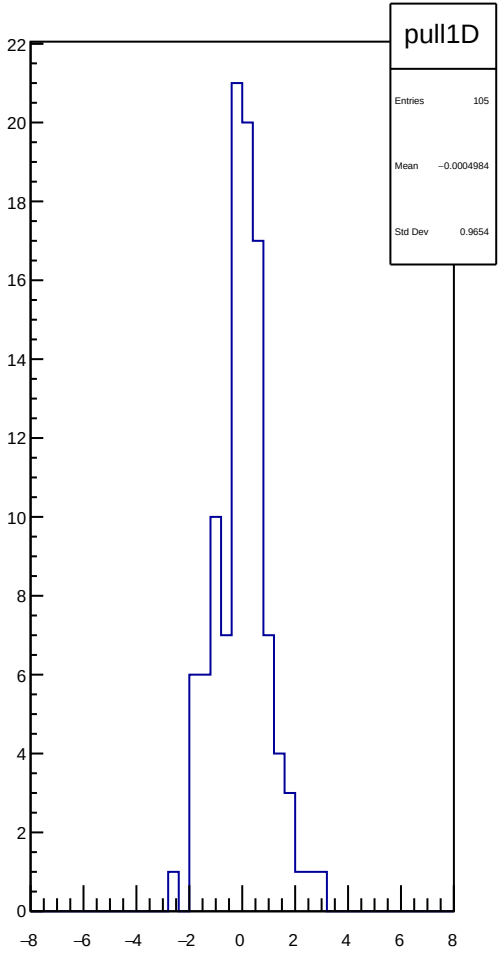

asym_atl1r2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 118.9 / 104
p0 −9.944e−14 ± 2.386e−13
0.3
0.2
0.1
0
−0.1
−0.2
pull
Entries 105
Mean 516.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.01037
Std Dev 1.064
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

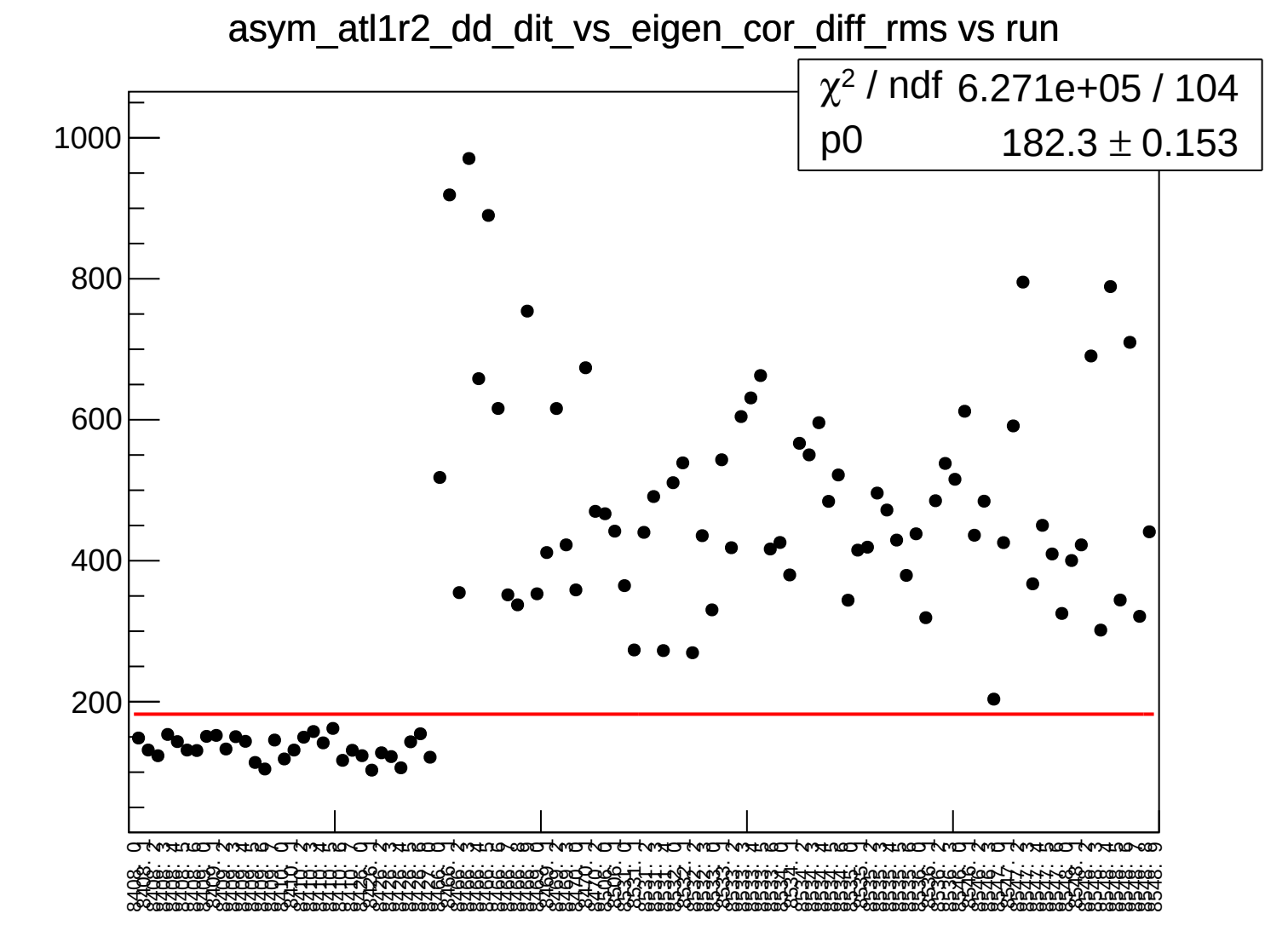

asym_atl1r2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.623e+06 / 104
p0 1.097e−10 ± 1.687e−13
16
14
12
10
8
6
4
2
0

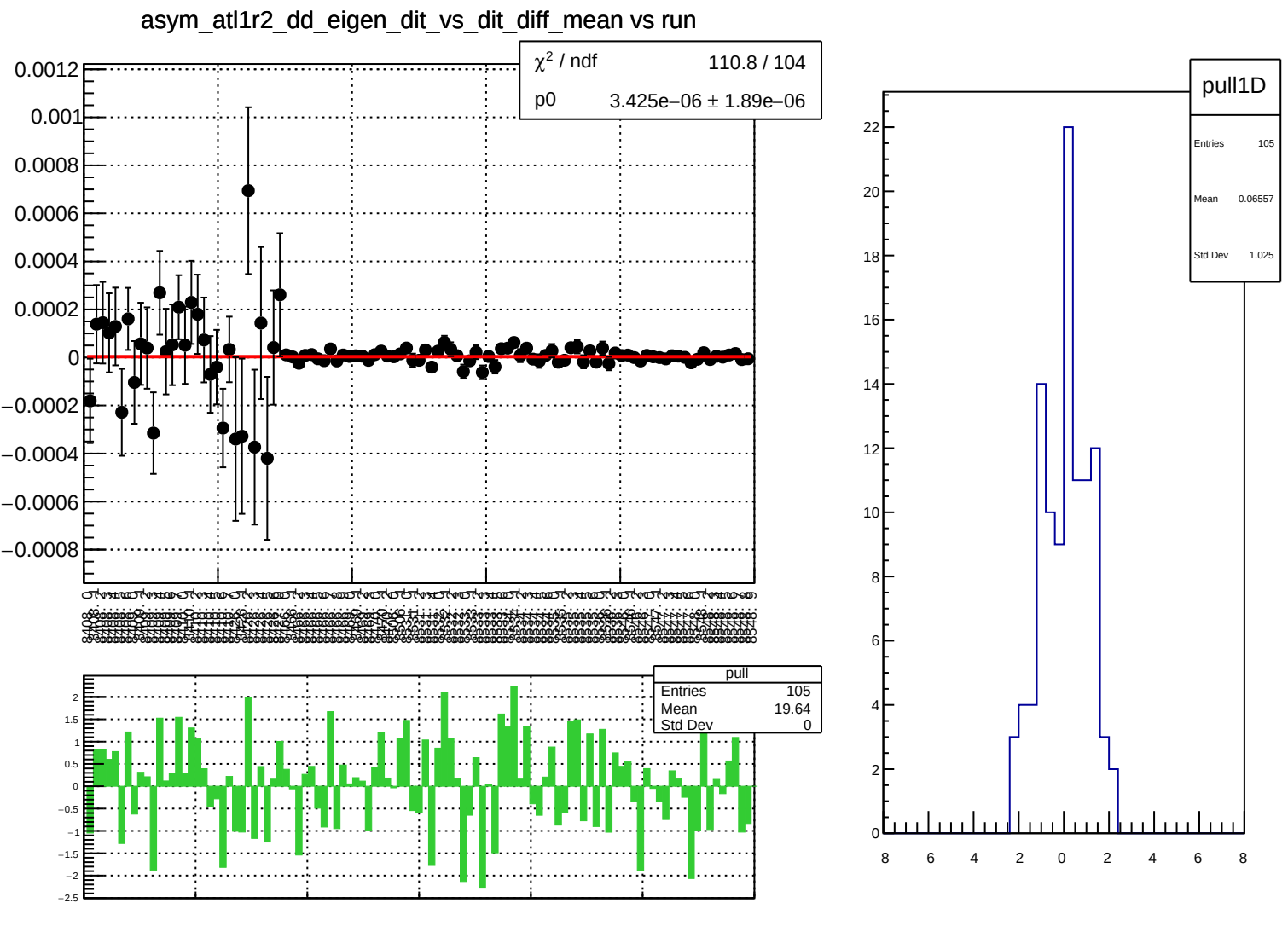

asym_atl1r2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 97.86 / 104
p0 0.07641 ± 0.2164
pull
Entries 105
Mean −2877
Std Dev 0
pull1D
Entries 105
Mean −0.0004984
Std Dev 0.9654

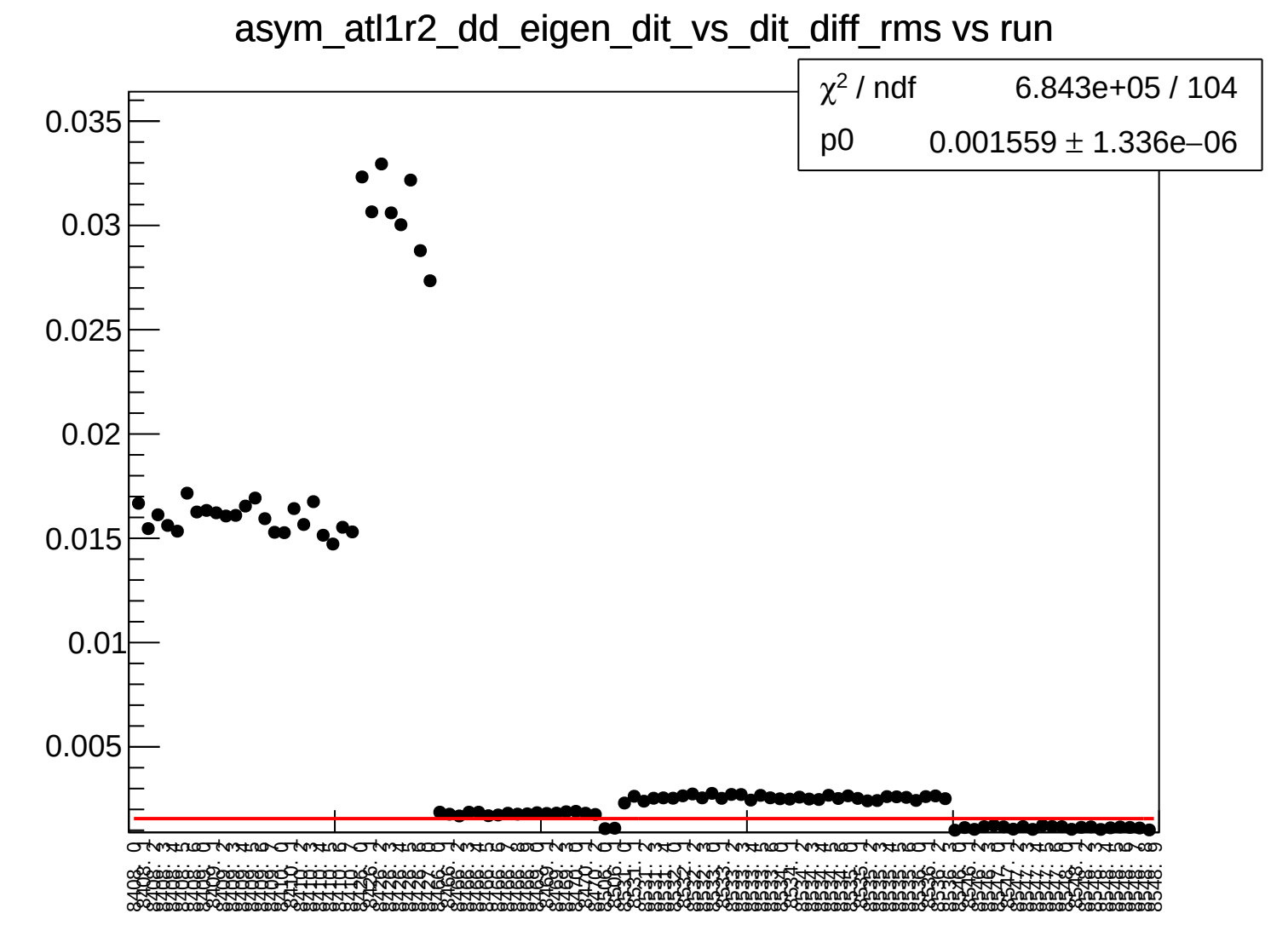

asym_atl1r2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.271e+05 / 104
p0 182.3 ± 0.153
1000
800
600
400
200

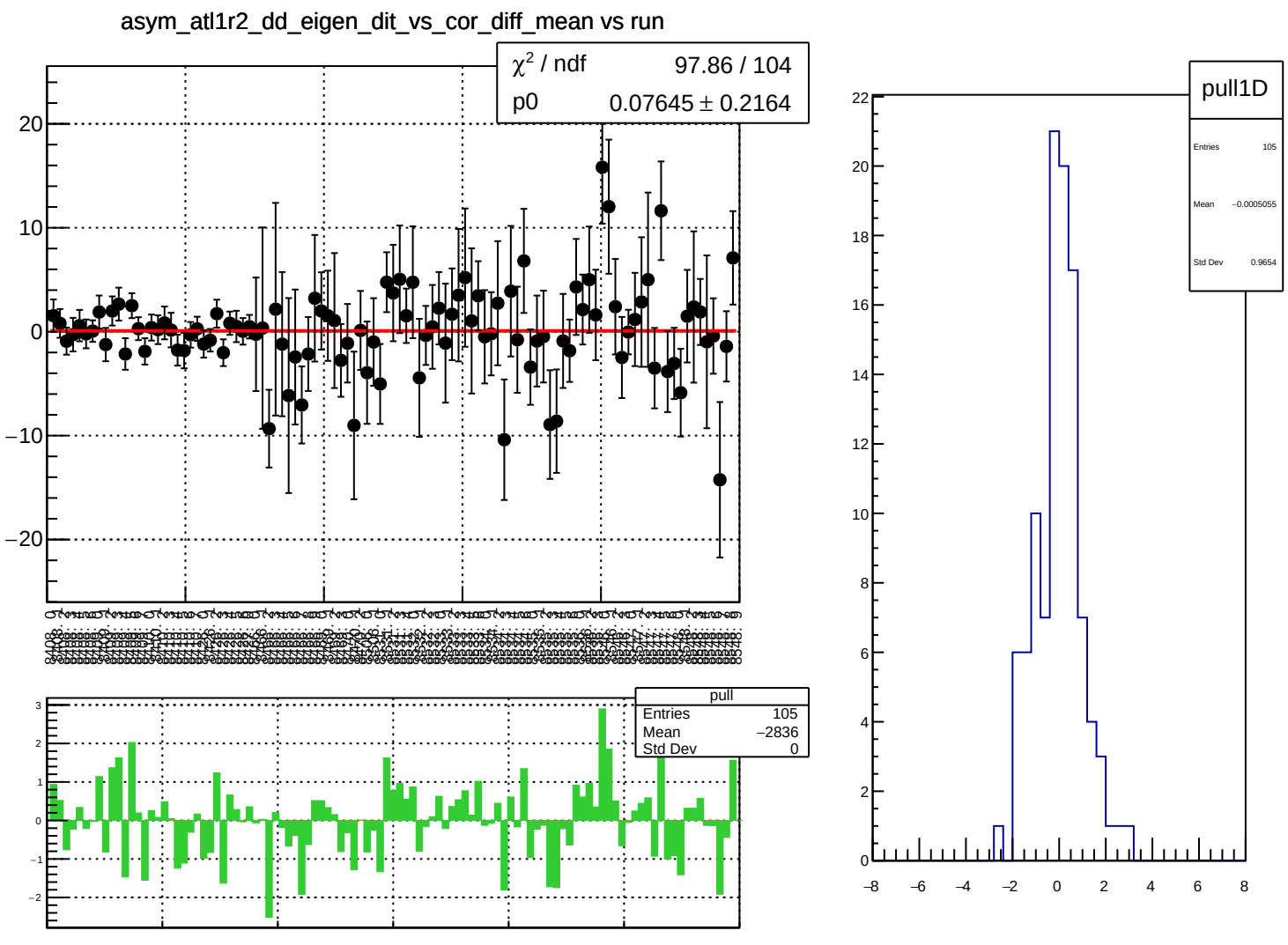

asym_atl1r2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.86 / 104
p0 0.07641 ± 0.2164
pull
Entries 105
Mean −2877
Std Dev 0

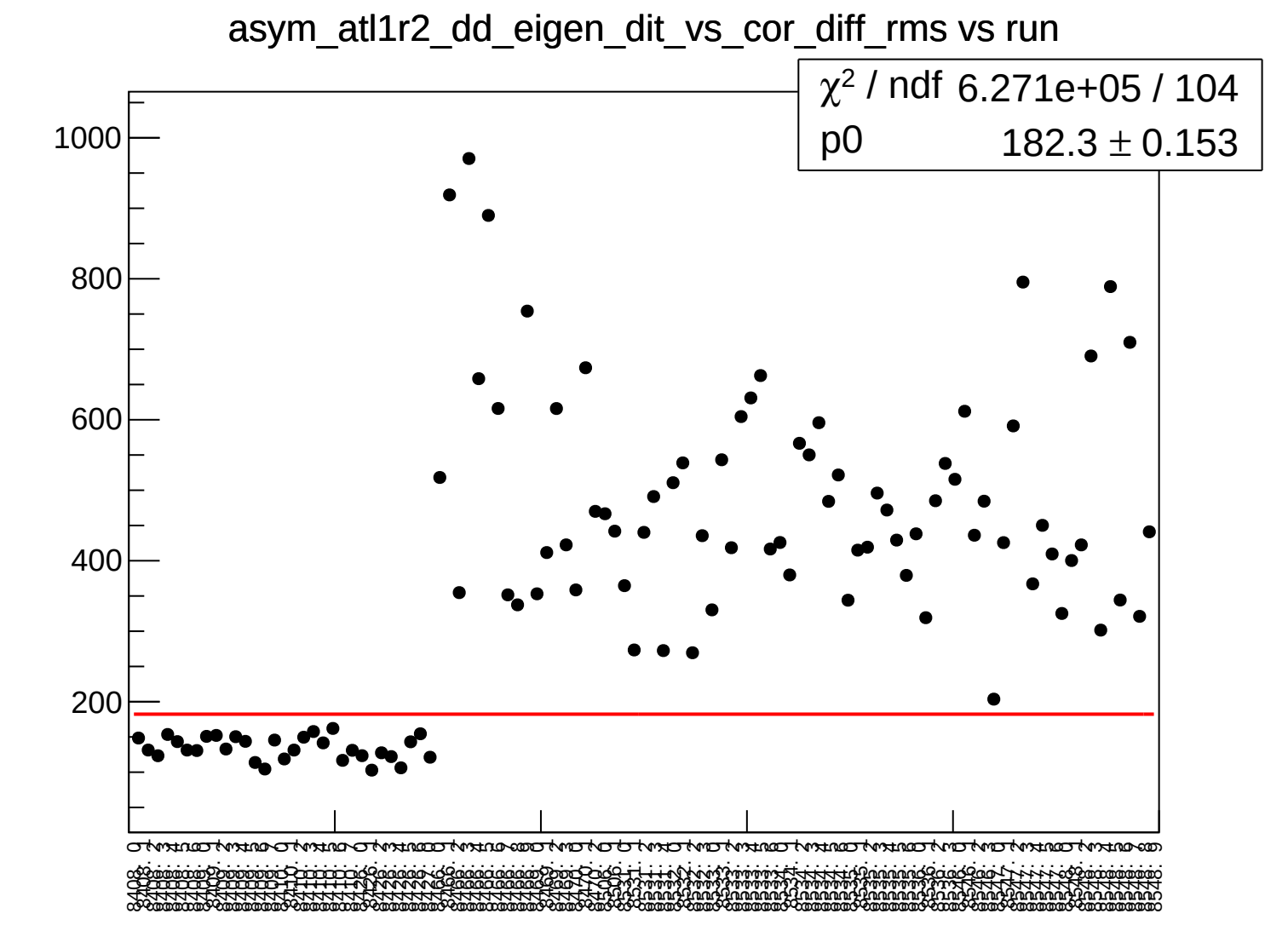

pull1D
Entries 105
Mean −0.0004984
Std Dev 0.9654

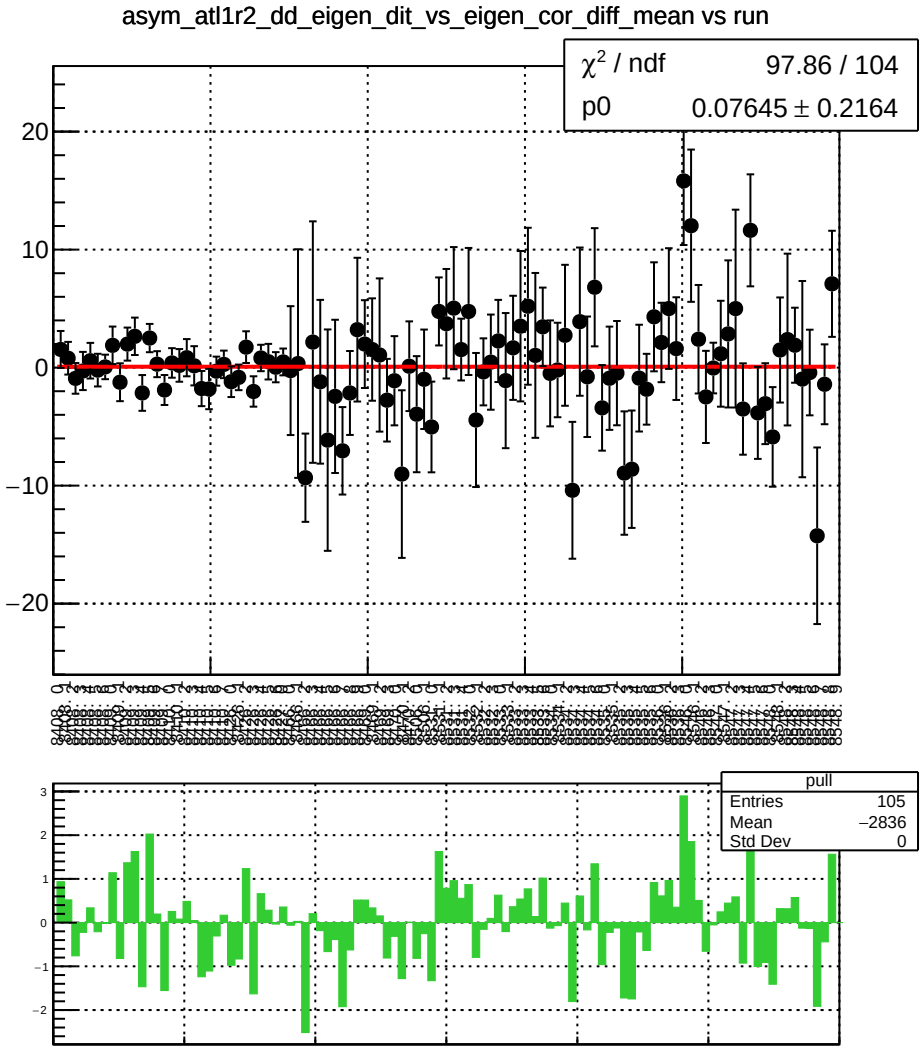

asym_atl1r2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.271e+05 / 104
p0 182.3 ± 0.153
1000
800
600
400
200

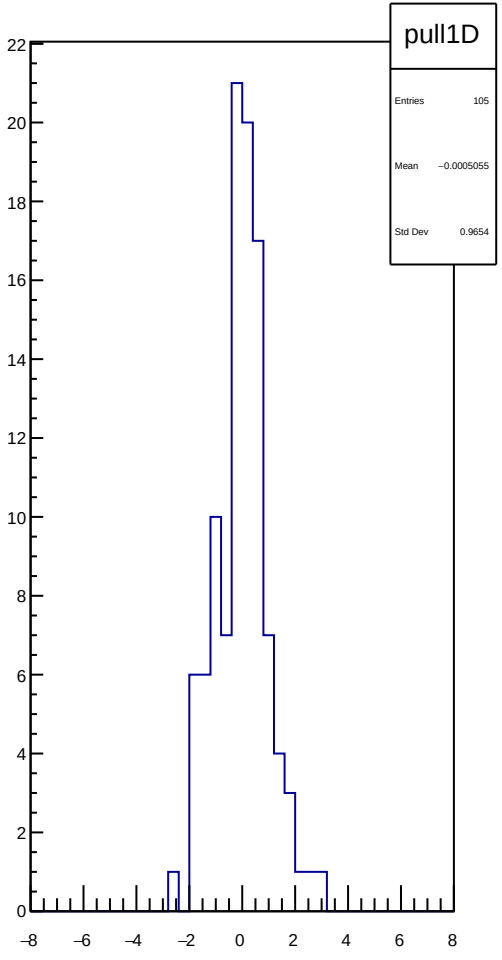

asym_atl1r2_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 110.8 / 104
p0 3.425e−06 ± 1.89e−06
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
pull
Entries 105
Mean 19.64
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 105
Mean 0.06557
Std Dev 1.025
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

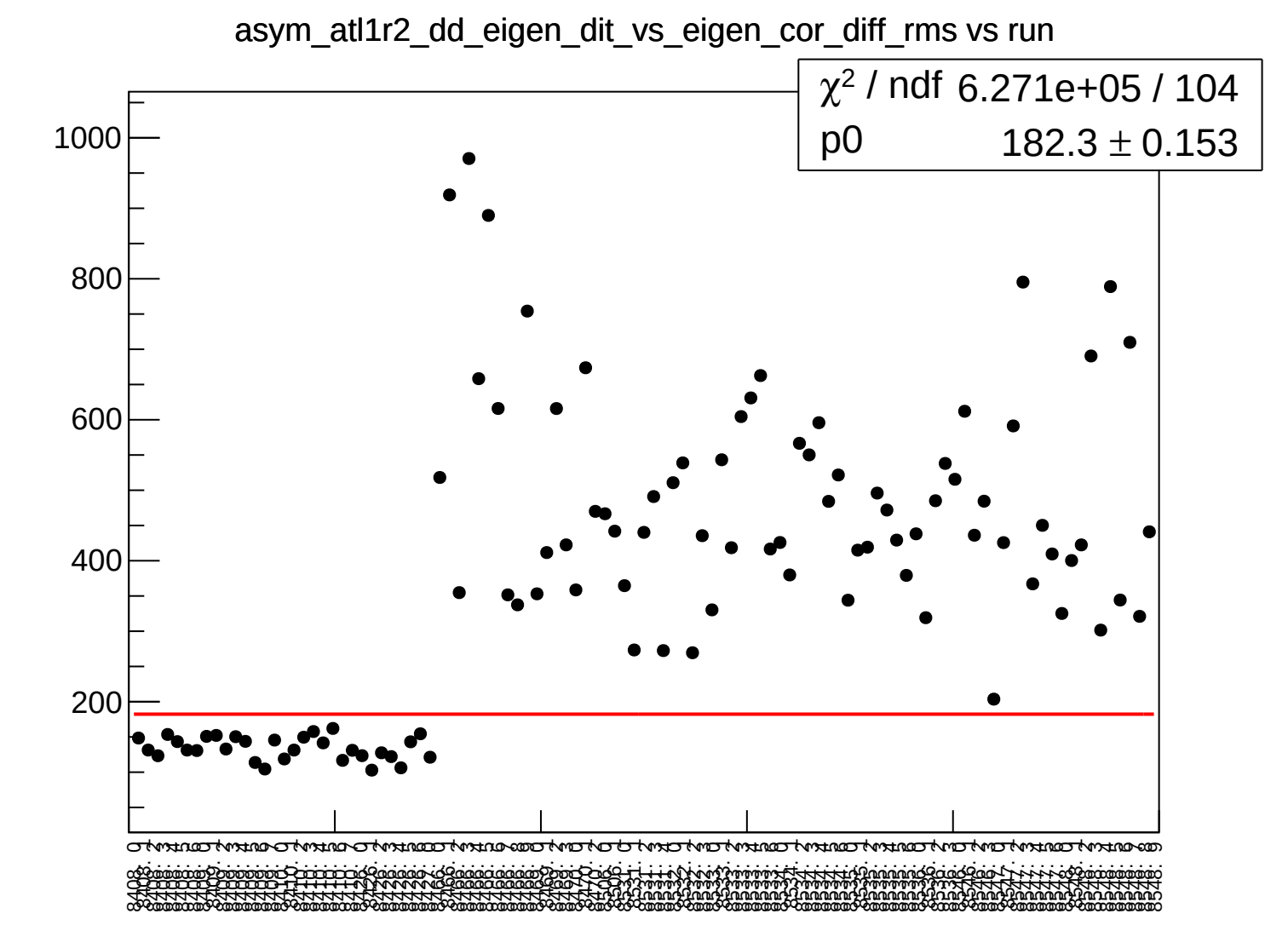

asym_atl1r2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.843e+05 / 104
p0 0.001559 ± 1.336e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

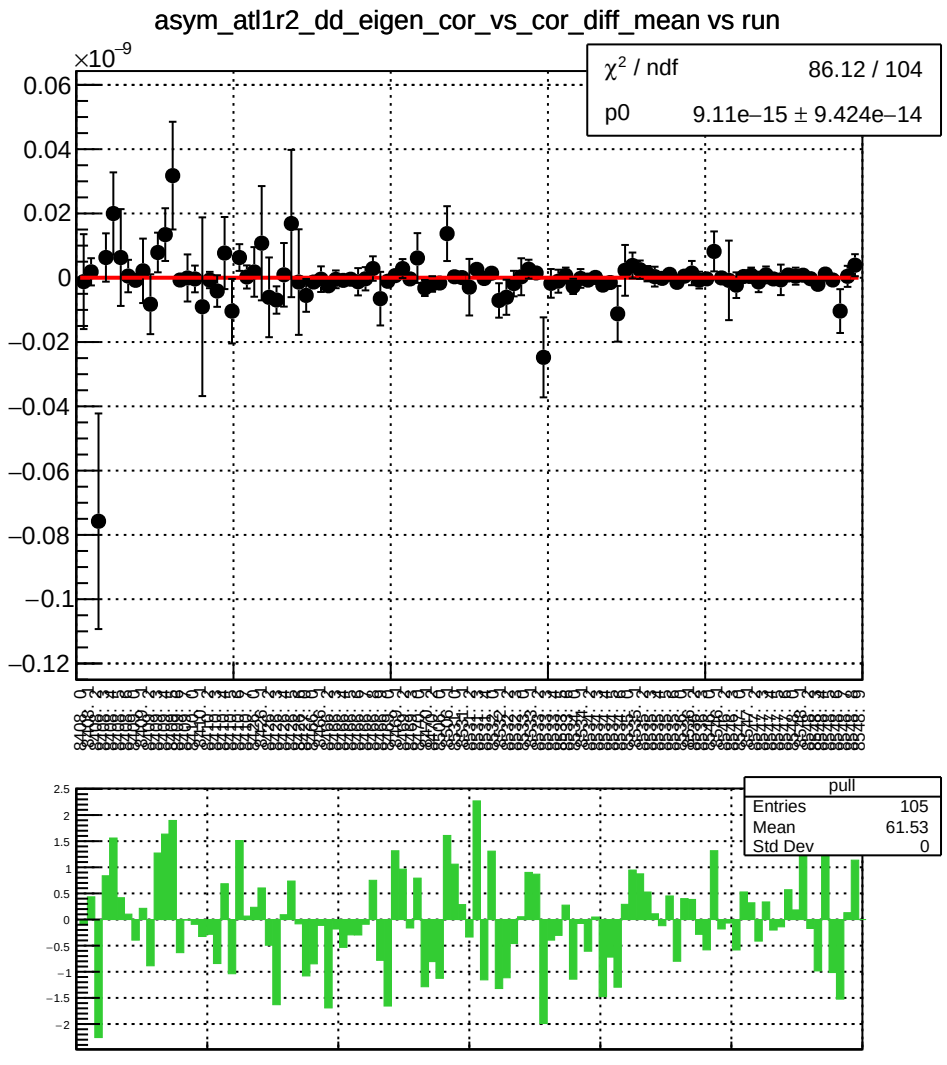

asym_atl1r2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 97.86 / 104
p0 0.07645 ± 0.2164
20
10
0
−10
−20
pull
Entries 105
Mean −2836
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.0005055
Std Dev 0.9654
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

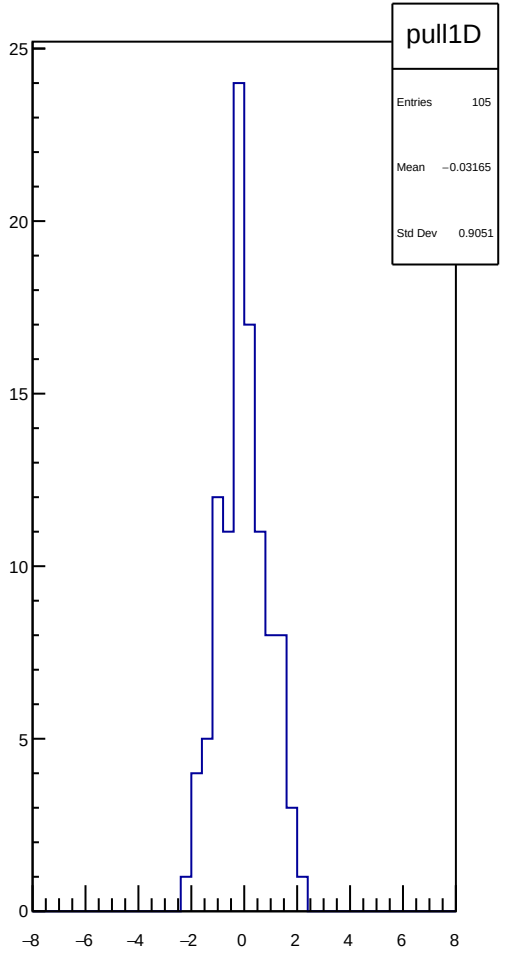

asym_atl1r2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.271e+05 / 104
p0 182.3 ± 0.153
1000
800
600
400
200

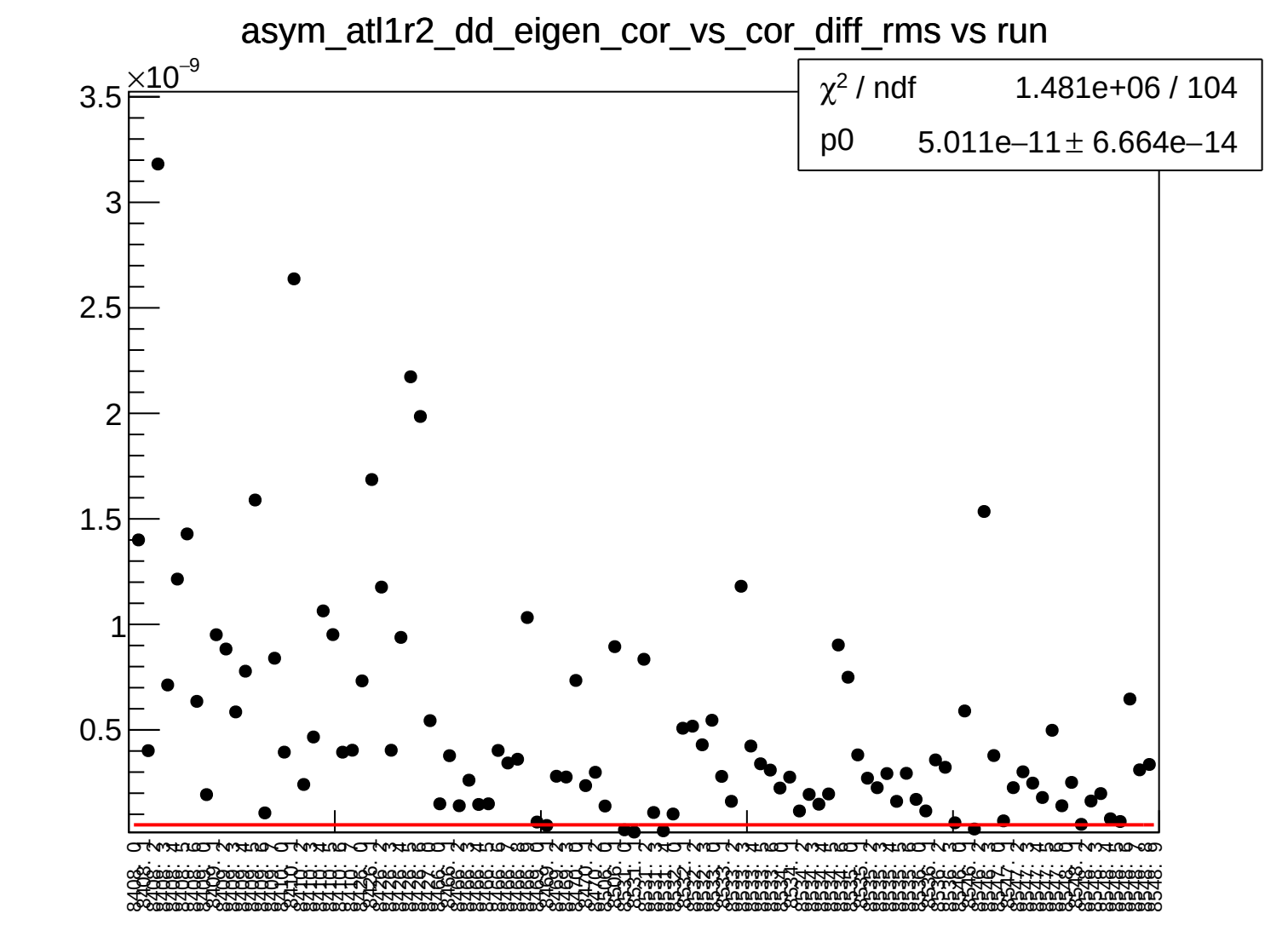

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 97.86 / 104
p0 0.07645 ± 0.2164
pull
Entries 105
Mean −2836
Std Dev 0

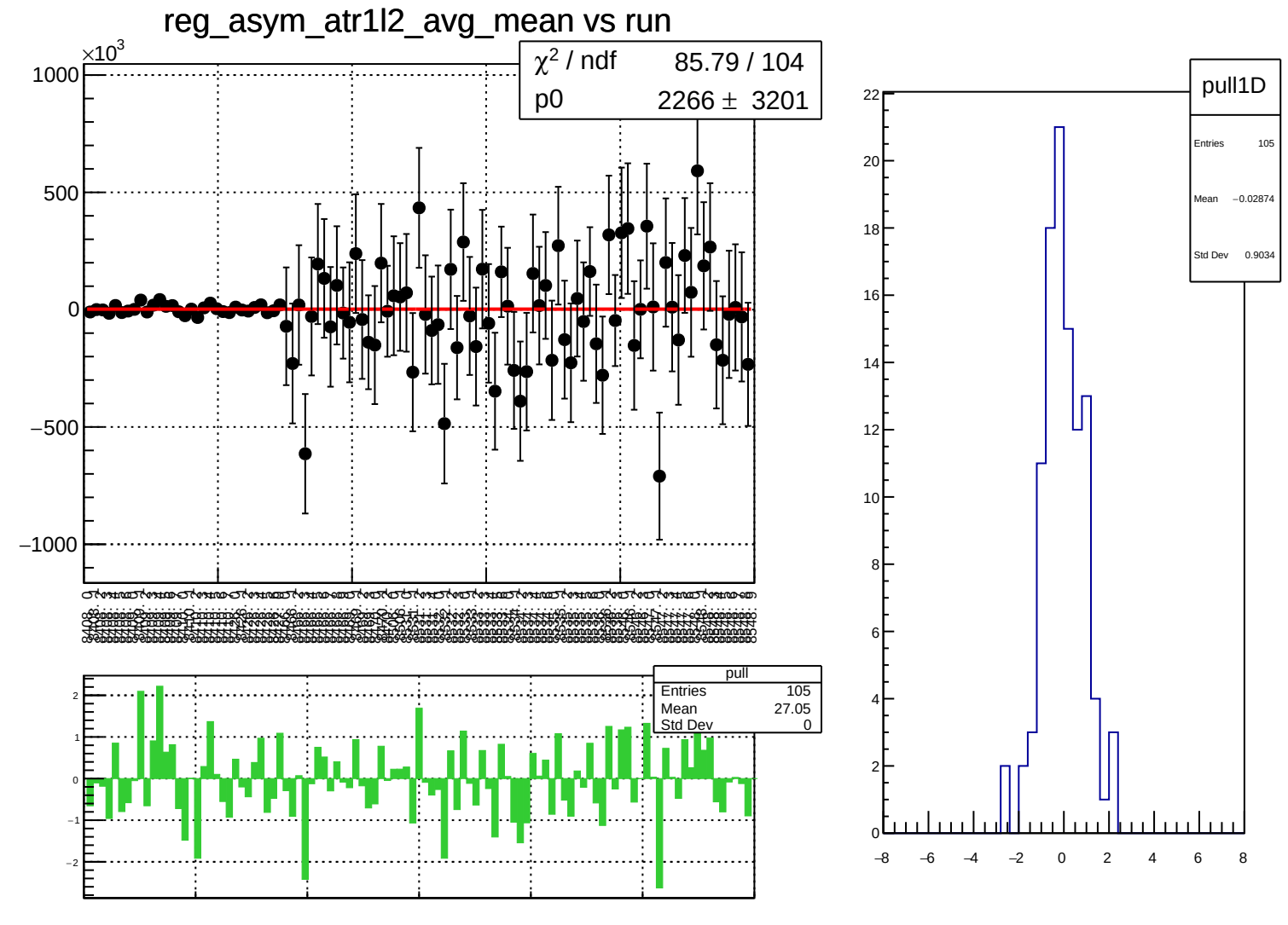

pull1D
Entries 105
Mean −0.0005055
Std Dev 0.9654

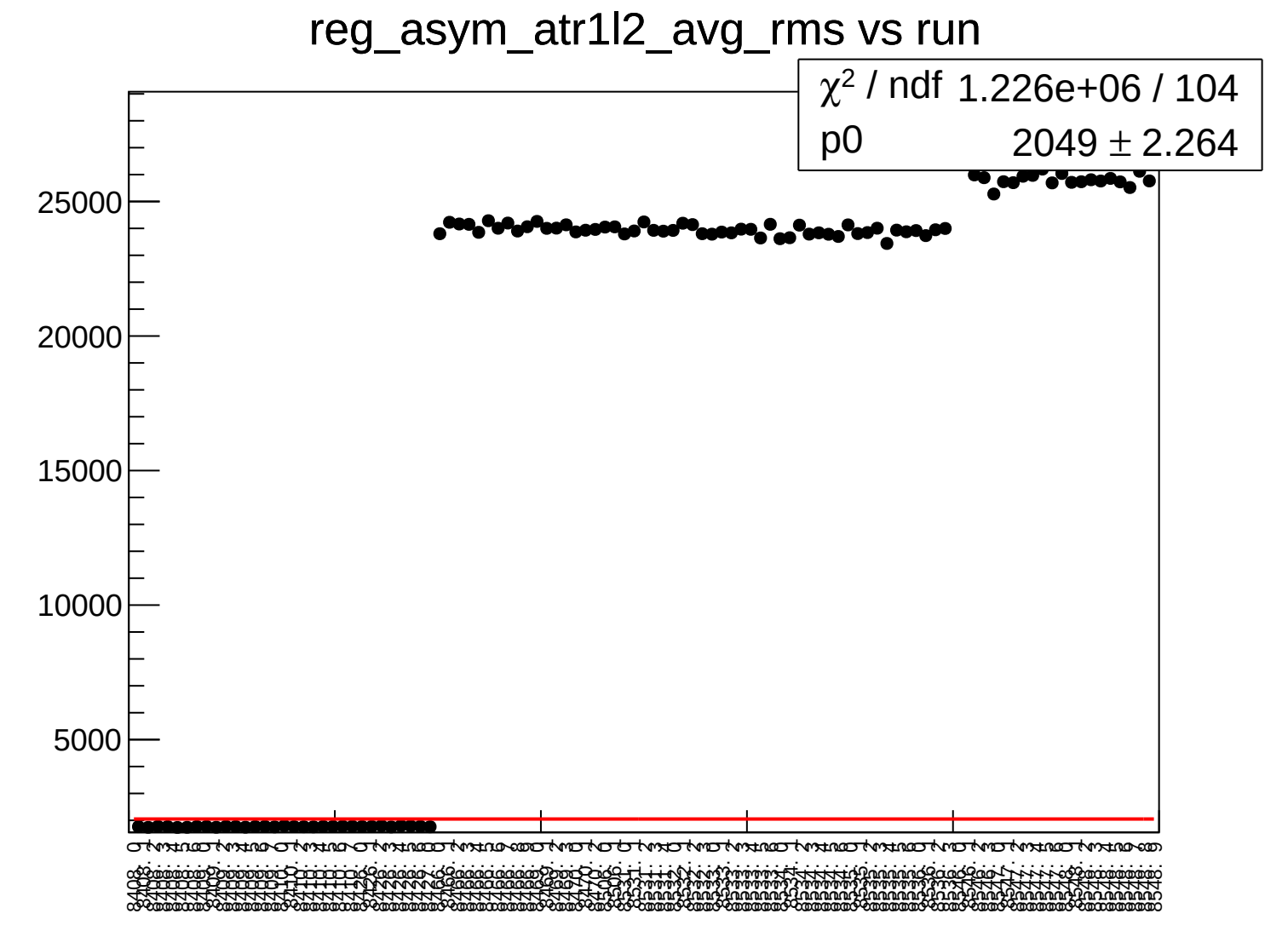

asym_atl1r2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.271e+05 / 104
p0 182.3 ± 0.153
1000
800
600
400
200

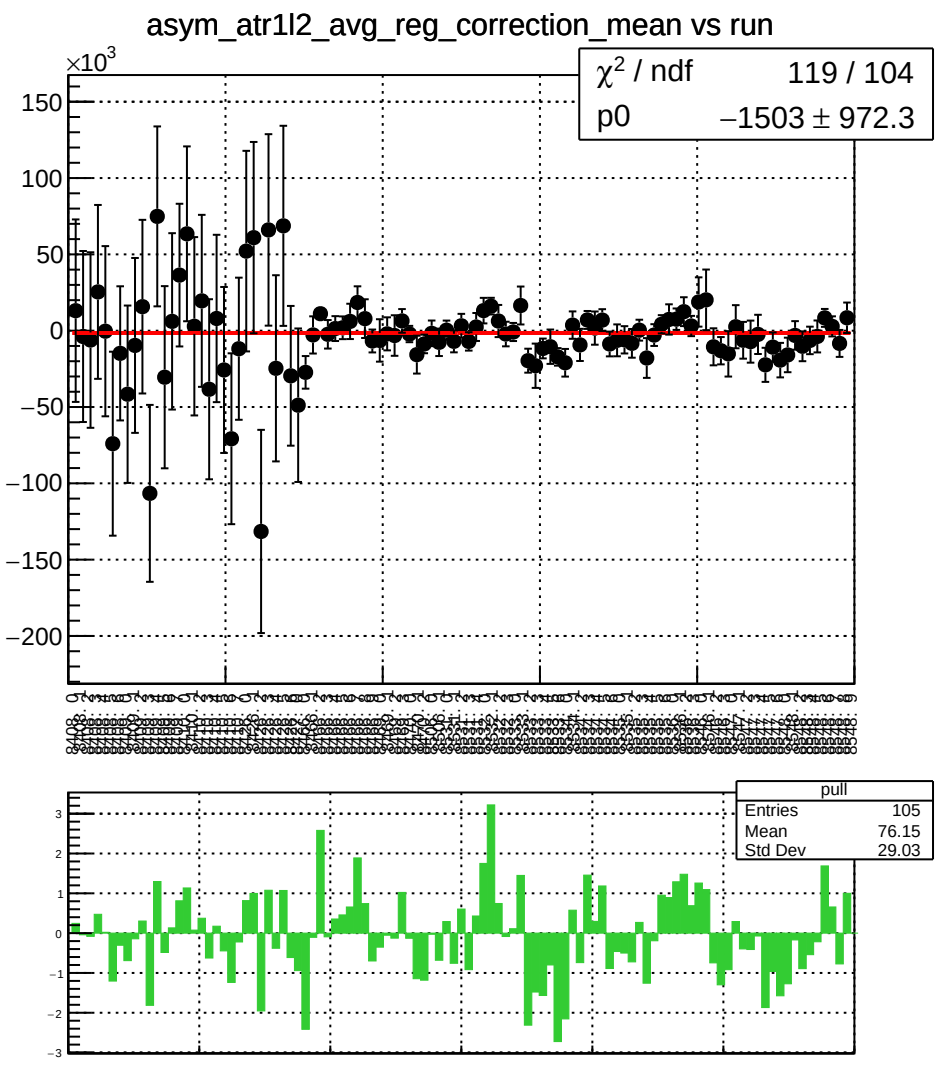

asym_atl1r2_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 86.12 / 104
p0 9.11e−15 ± 9.424e−14
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
pull
Entries 105
Mean 61.53
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

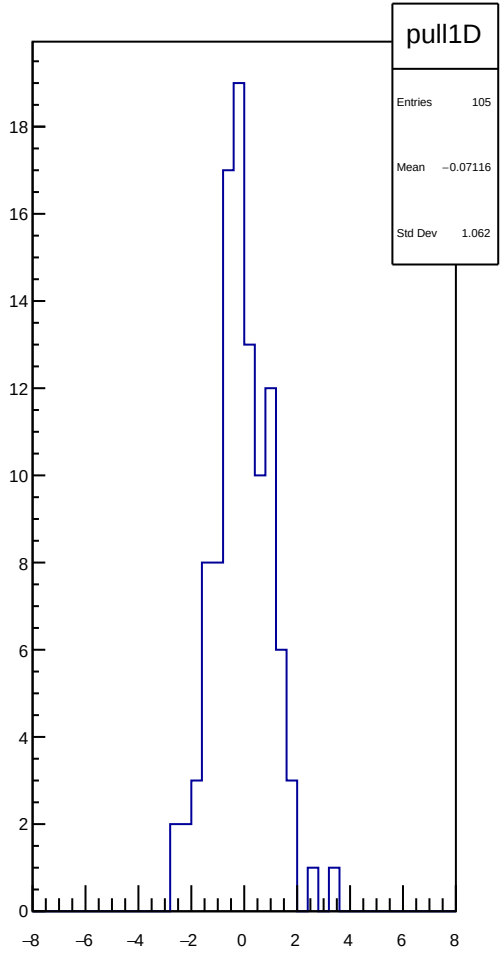

pull1D
Entries 105
Mean −0.03165
Std Dev 0.9051
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

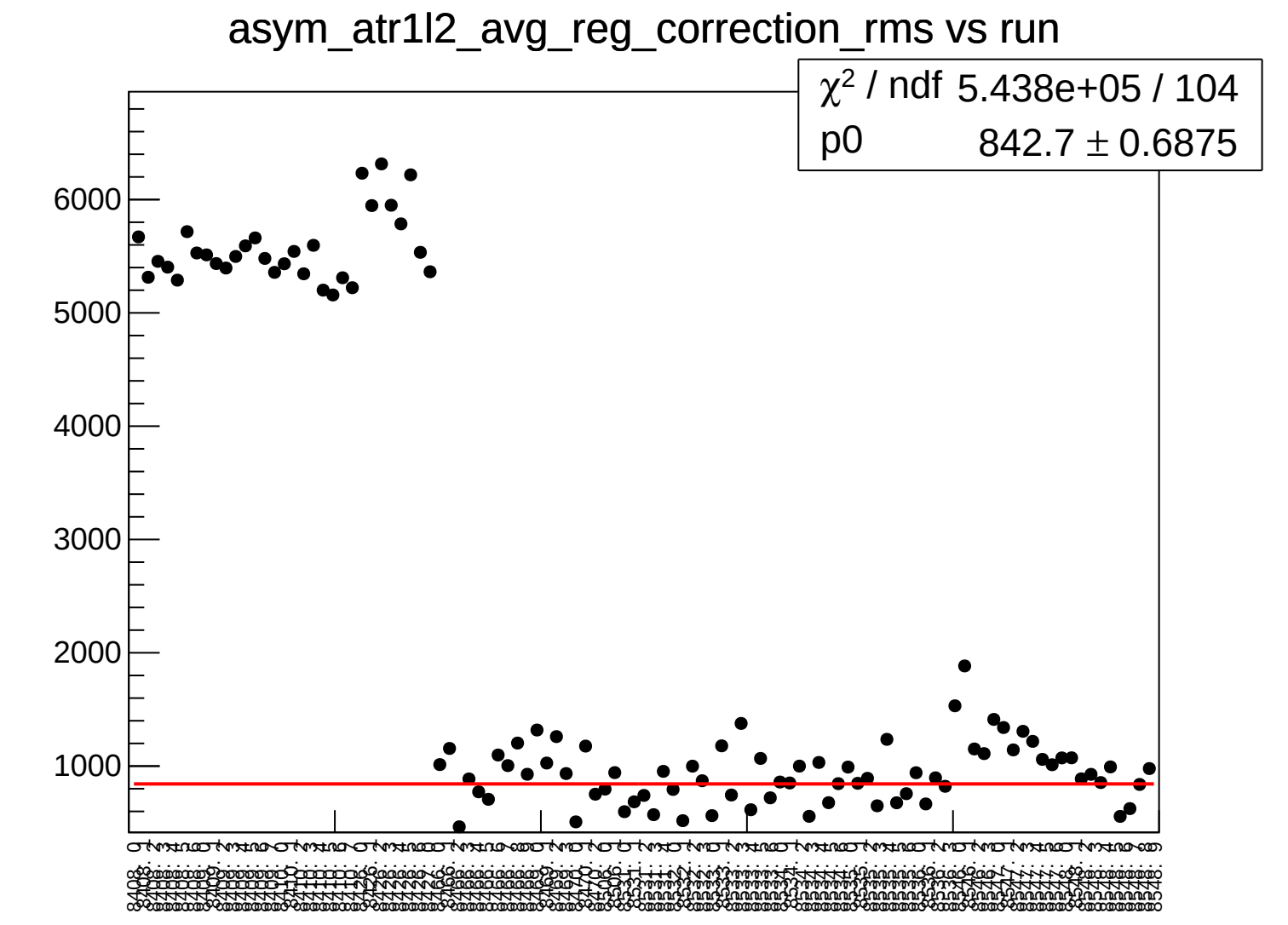

asym_atl1r2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
3.5
3
2.5
2
1.5
1
0.5
χ² / ndf 1.481e+06 / 104
p0 5.011e−11 ± 6.664e−14

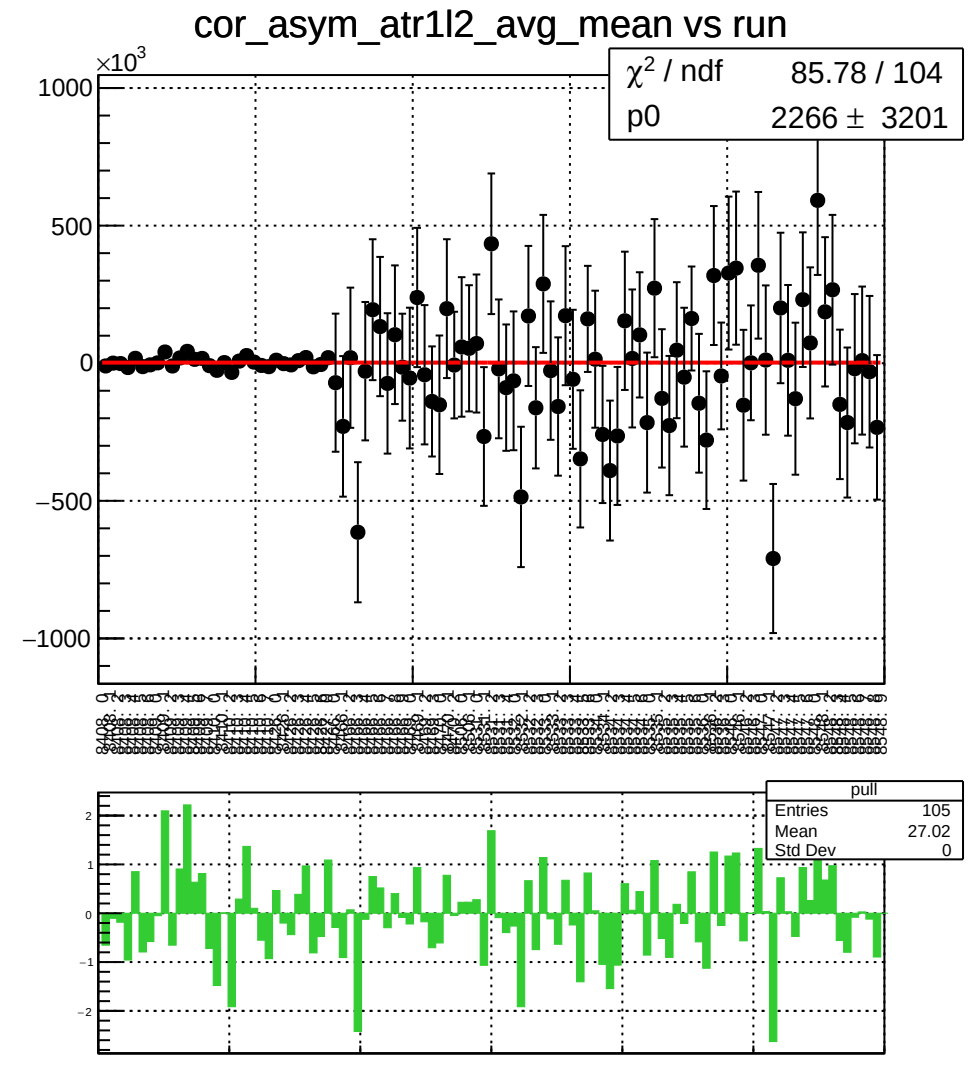

reg_asym_atr1l2_avg_mean vs run
×10^3
1000
500
0
−500
−1000
χ^2 / ndf 85.79 / 104
p0 2266 ± 3201
pull
Entries 105
Mean 27.05
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.02874
Std Dev 0.9034
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

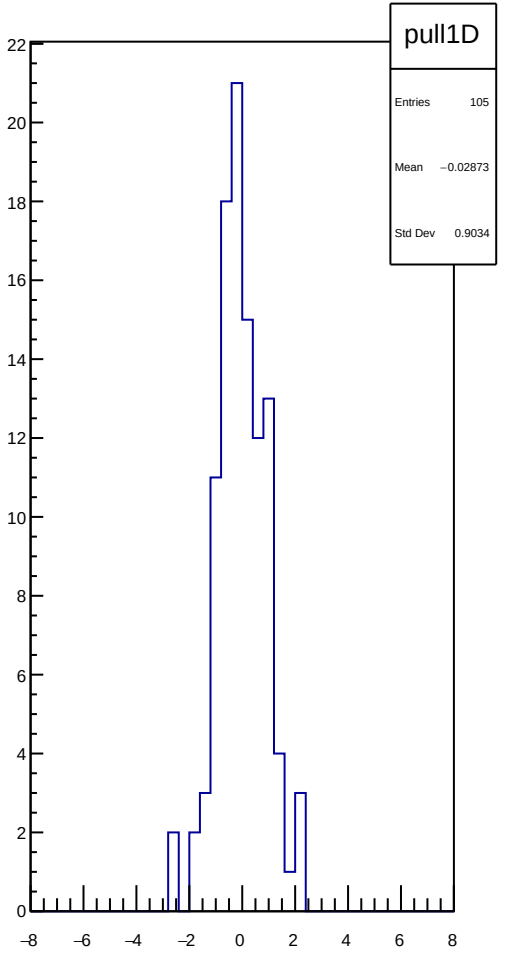

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 1.226e+06 / 104
p0 2049 ± 2.264
25000
20000
15000
10000
5000

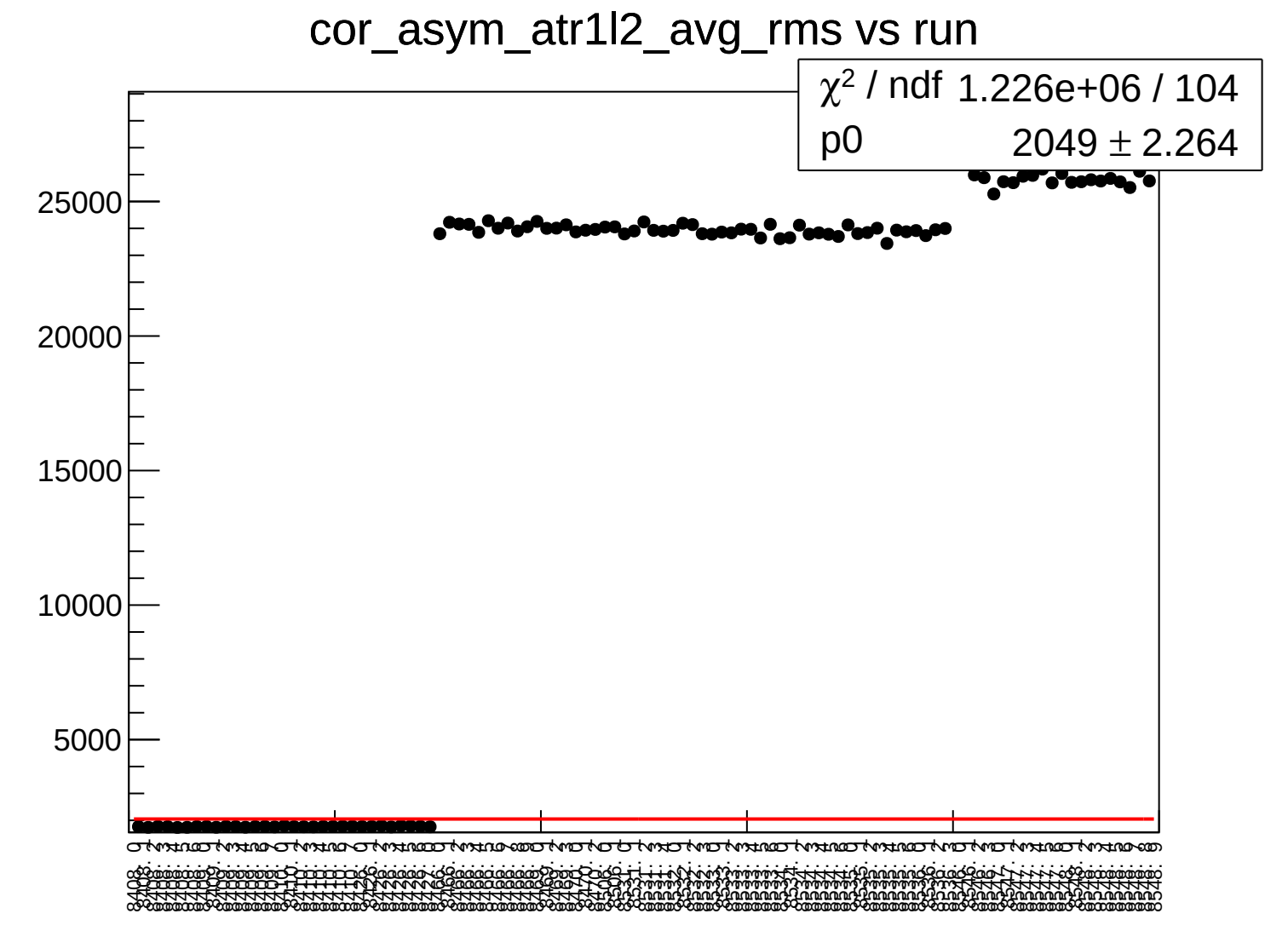

asym_atr1l2_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 119 / 104
p0 −1503 ± 972.3
150
100
50
0
−50
−100
−150
−200
pull
Entries 105
Mean 76.15
Std Dev 29.03
3
2
1
0
−1
−2
−3

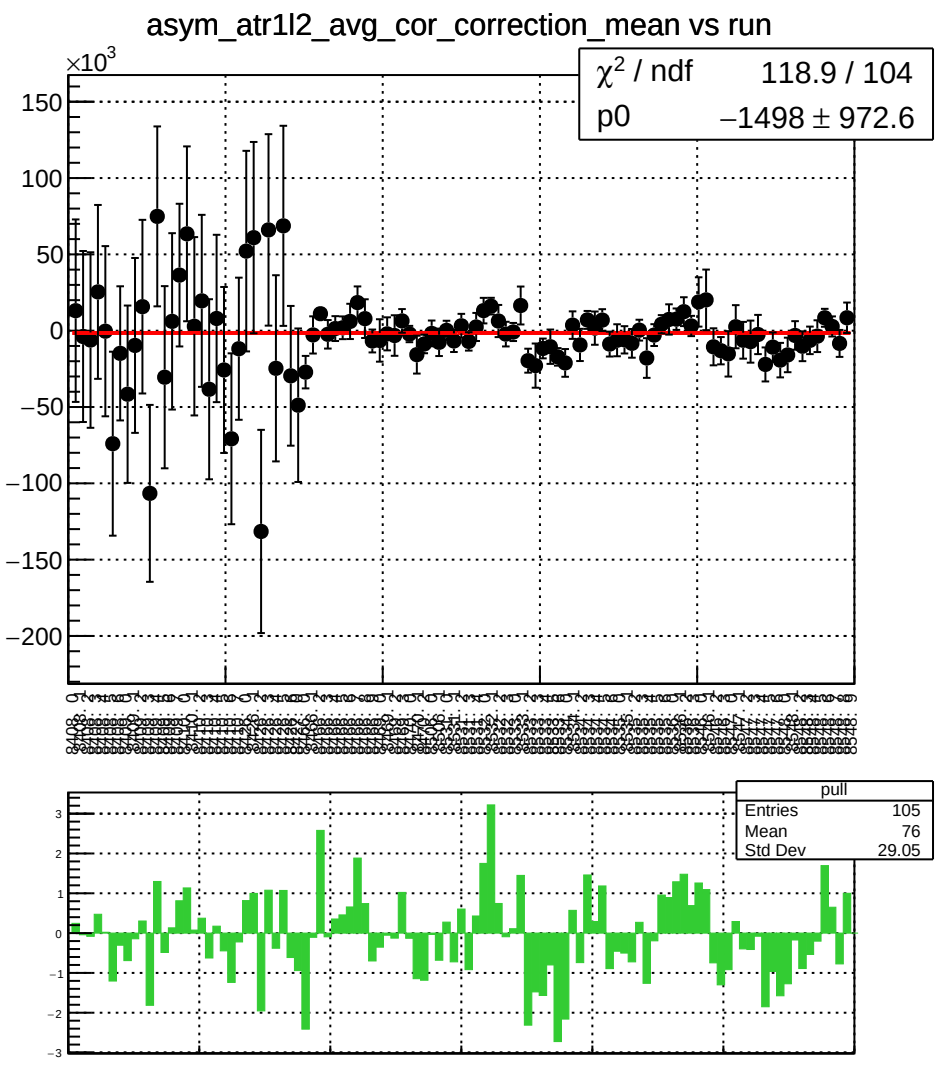

pull1D
Entries 105
Mean −0.07116
Std Dev 1.062
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

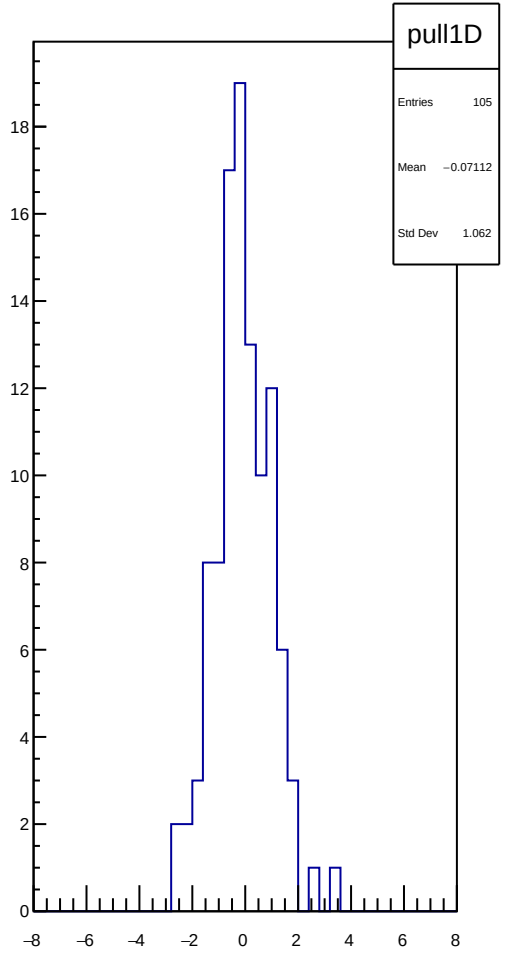

asym_atr1l2_avg_reg_correction_rms vs run
χ² / ndf 5.438e+05 / 104
p0 842.7 ± 0.6875
6000
5000
4000
3000
2000
1000

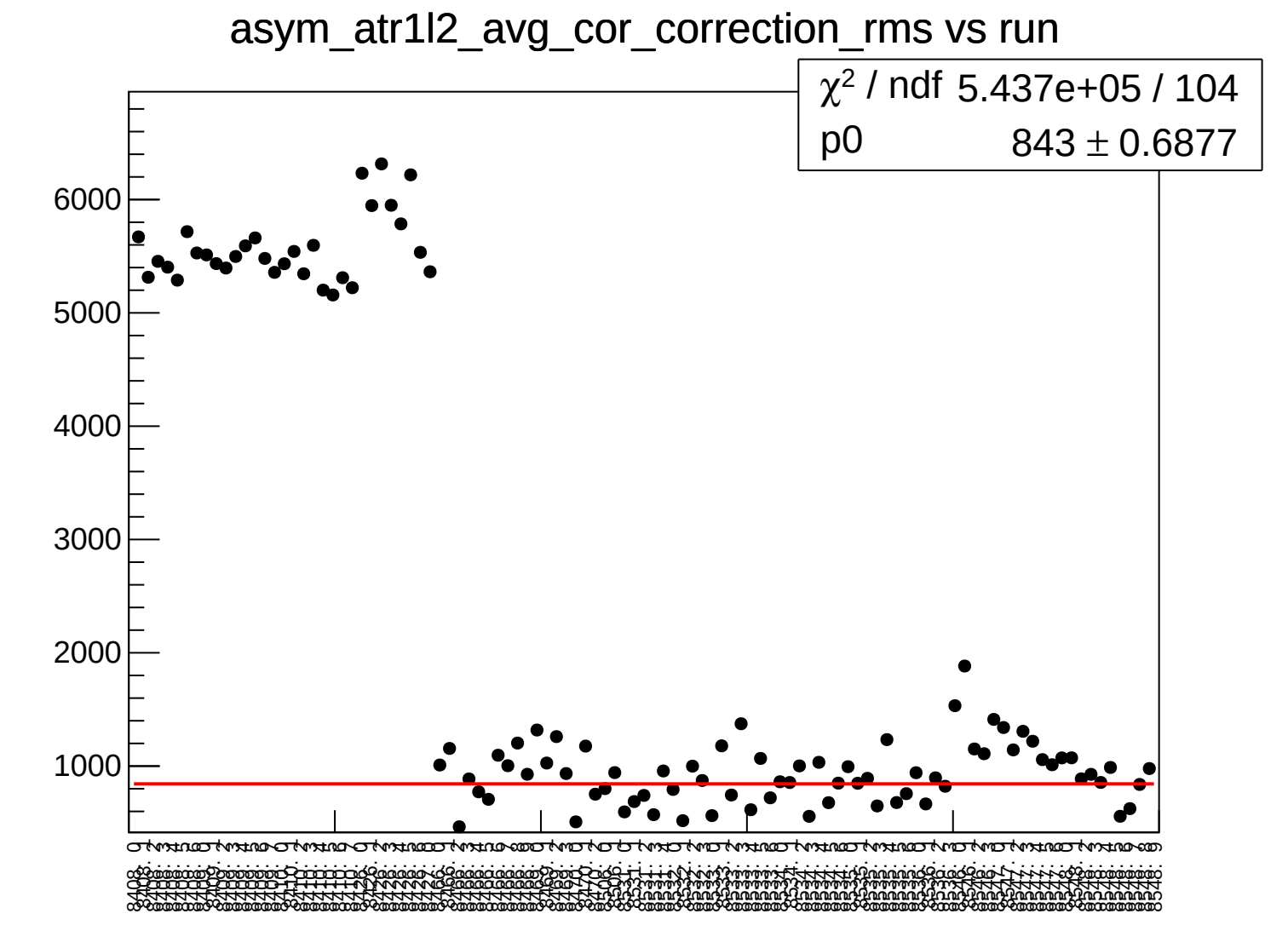

cor_asym_atr1l2_avg_mean vs run
×10^3
1000
500
0
−500
−1000
χ² / ndf 85.78 / 104
p0 2266 ± 3201
pull
Entries 105
Mean 27.02
Std Dev 0
2
1
0
−1
−2

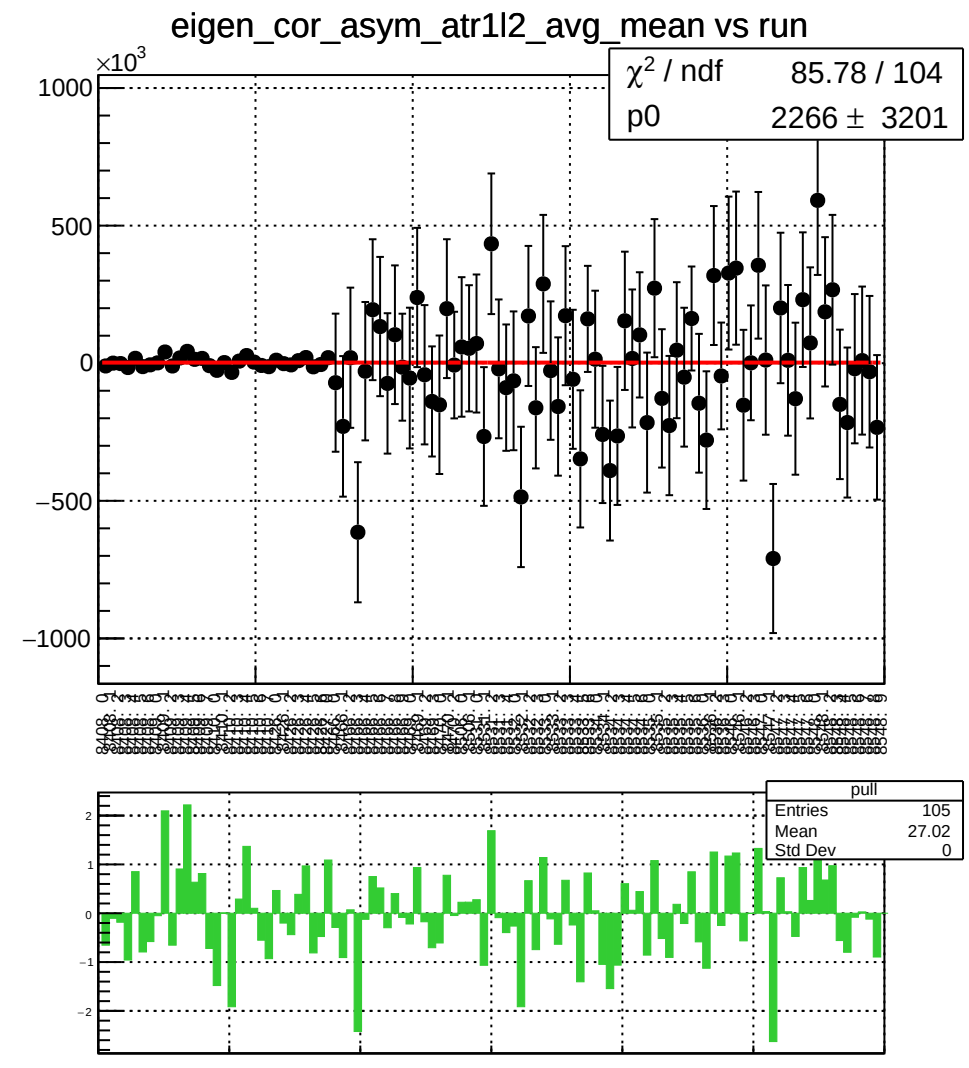

pull1D
Entries 105
Mean −0.02873
Std Dev 0.9034
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

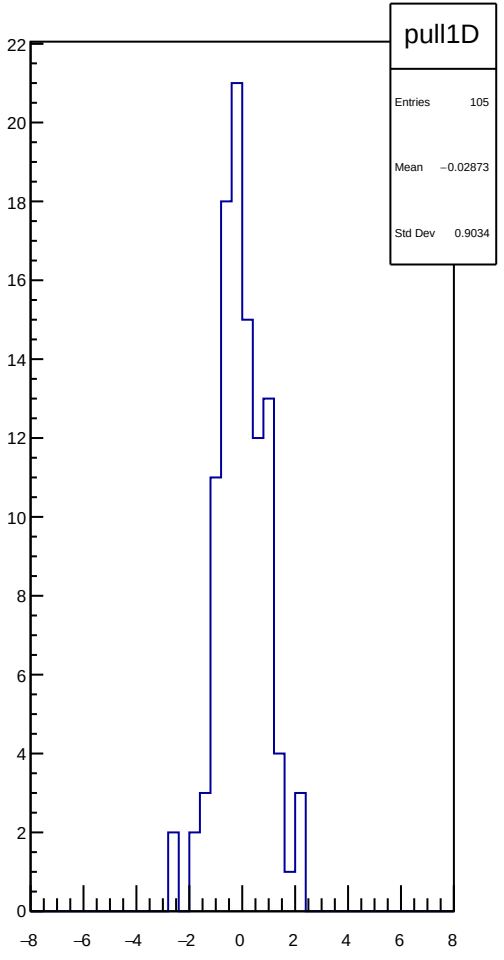

cor_asym_atr1l2_avg_rms vs run
χ² / ndf 1.226e+06 / 104
p0 2049 ± 2.264
25000
20000
15000
10000
5000

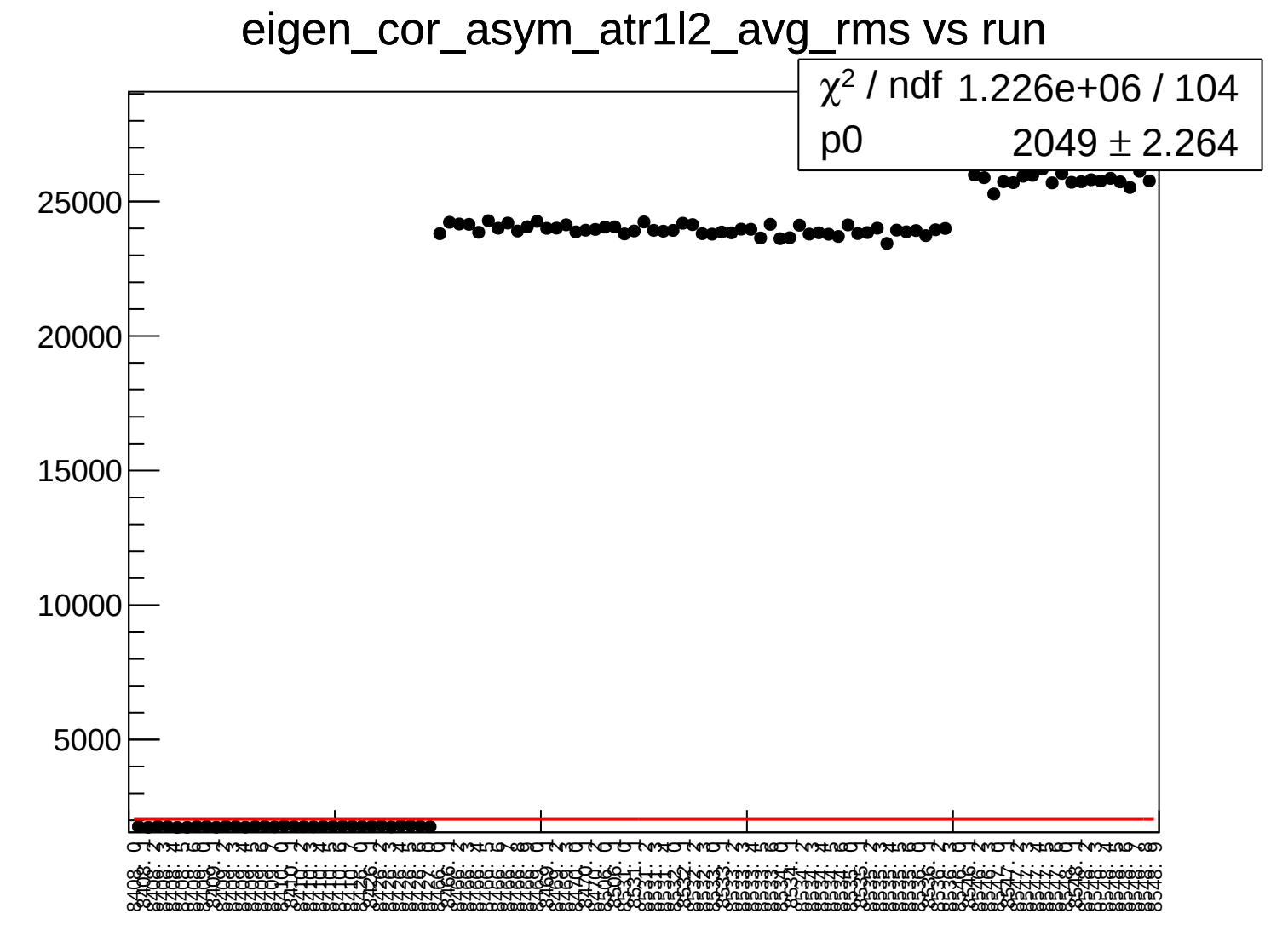

asym_atr1l2_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 118.9 / 104
p0 −1498 ± 972.6
150
100
50
0
−50
−100
−150
−200
pull
Entries 105
Mean 76
Std Dev 29.05
3
2
1
0
−1
−2
−3

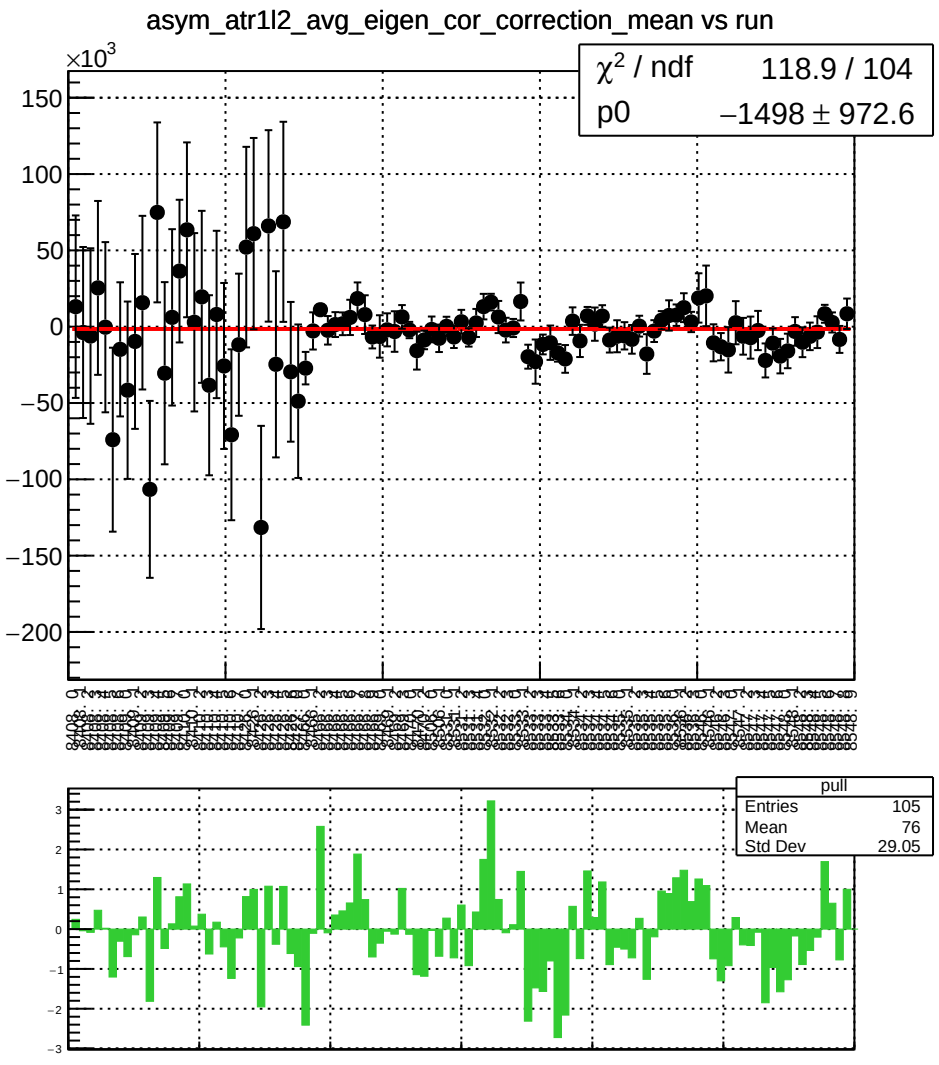

pull1D
Entries 105
Mean −0.07112
Std Dev 1.062
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

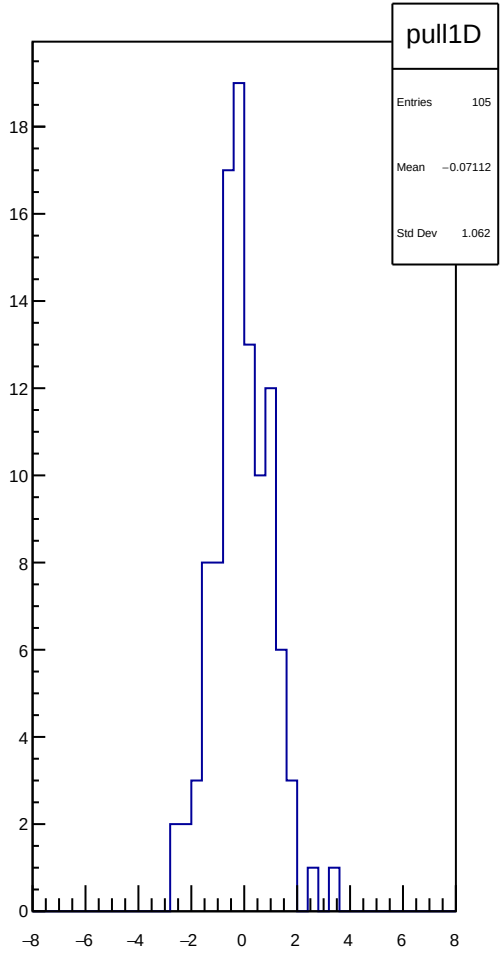

asym_atr1l2_avg_cor_correction_rms vs run
χ² / ndf 5.437e+05 / 104
p0 843 ± 0.6877
6000
5000
4000
3000
2000
1000

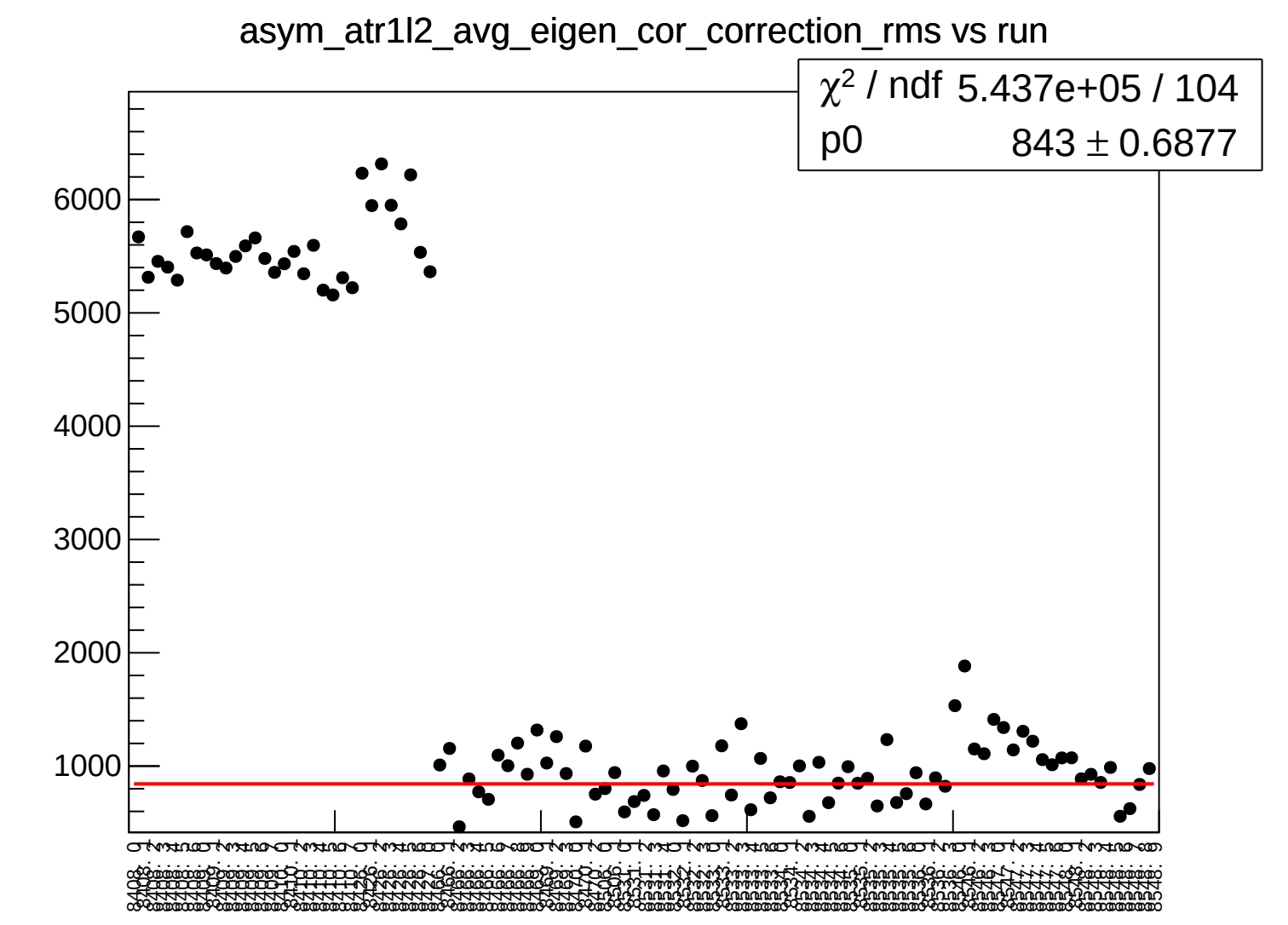

eigen_cor_asym_atr1l2_avg_mean vs run
×10^3
1000
500
0
−500
−1000
χ² / ndf 85.78 / 104
p0 2266 ± 3201
pull
Entries 105
Mean 27.02
Std Dev 0
2
1
0
−1
−2

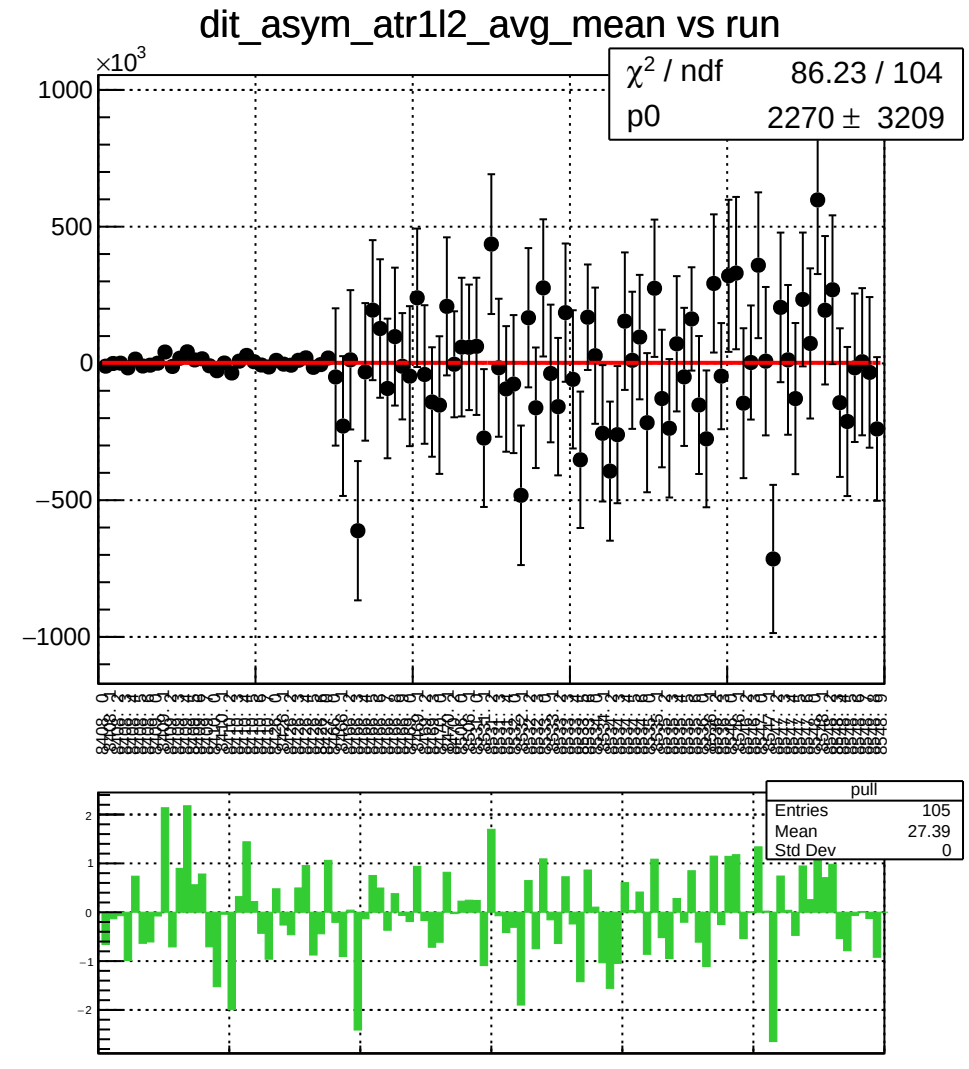

pull1D
Entries 105
Mean −0.02873
Std Dev 0.9034
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

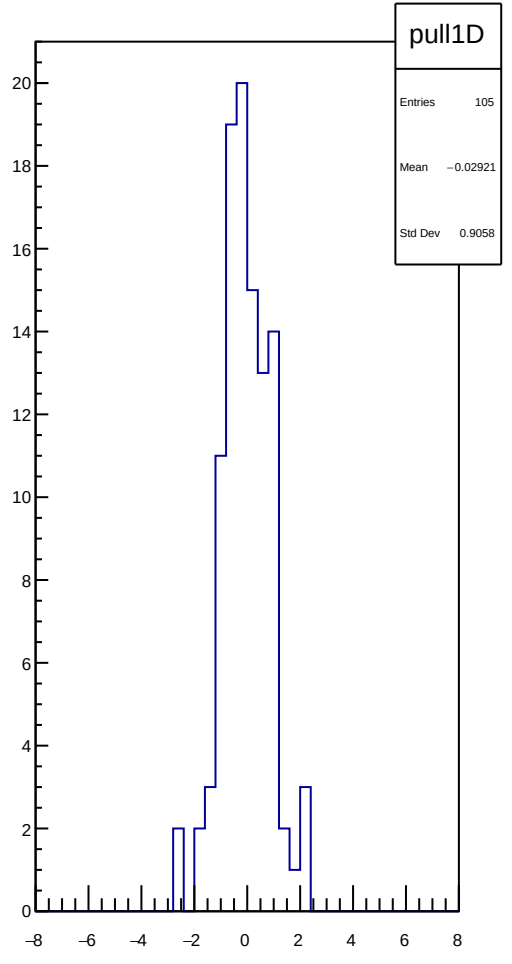

eigen_cor_asym_atr1l2_avg_rms vs run
χ² / ndf 1.226e+06 / 104
p0 2049 ± 2.264
25000
20000
15000
10000
5000

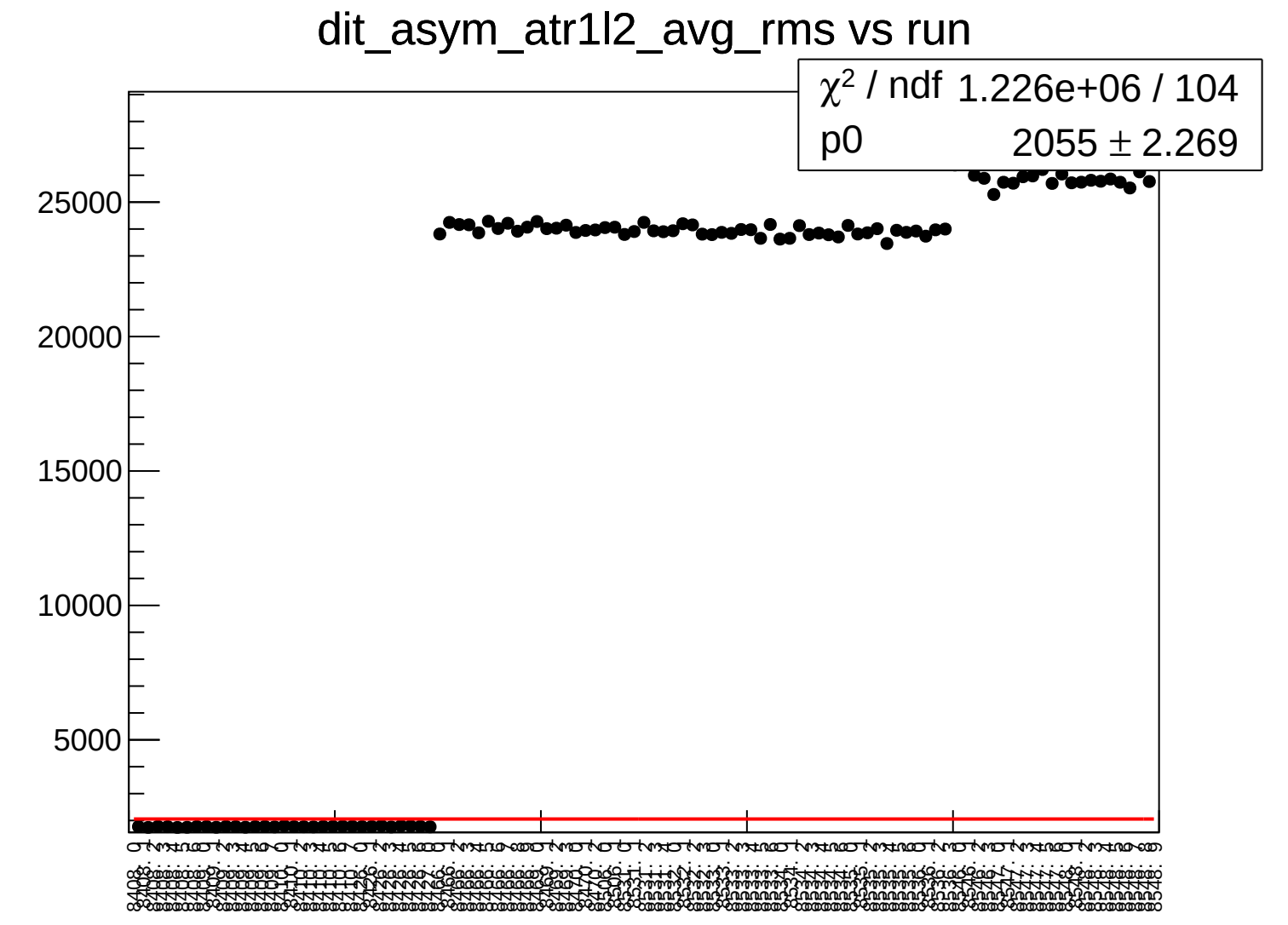

asym_atr1l2_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 118.9 / 104
p0 −1498 ± 972.6
150
100
50
0
−50
−100
−150
−200
pull
Entries 105
Mean 76
Std Dev 29.05
3
2
1
0
−1
−2
−3

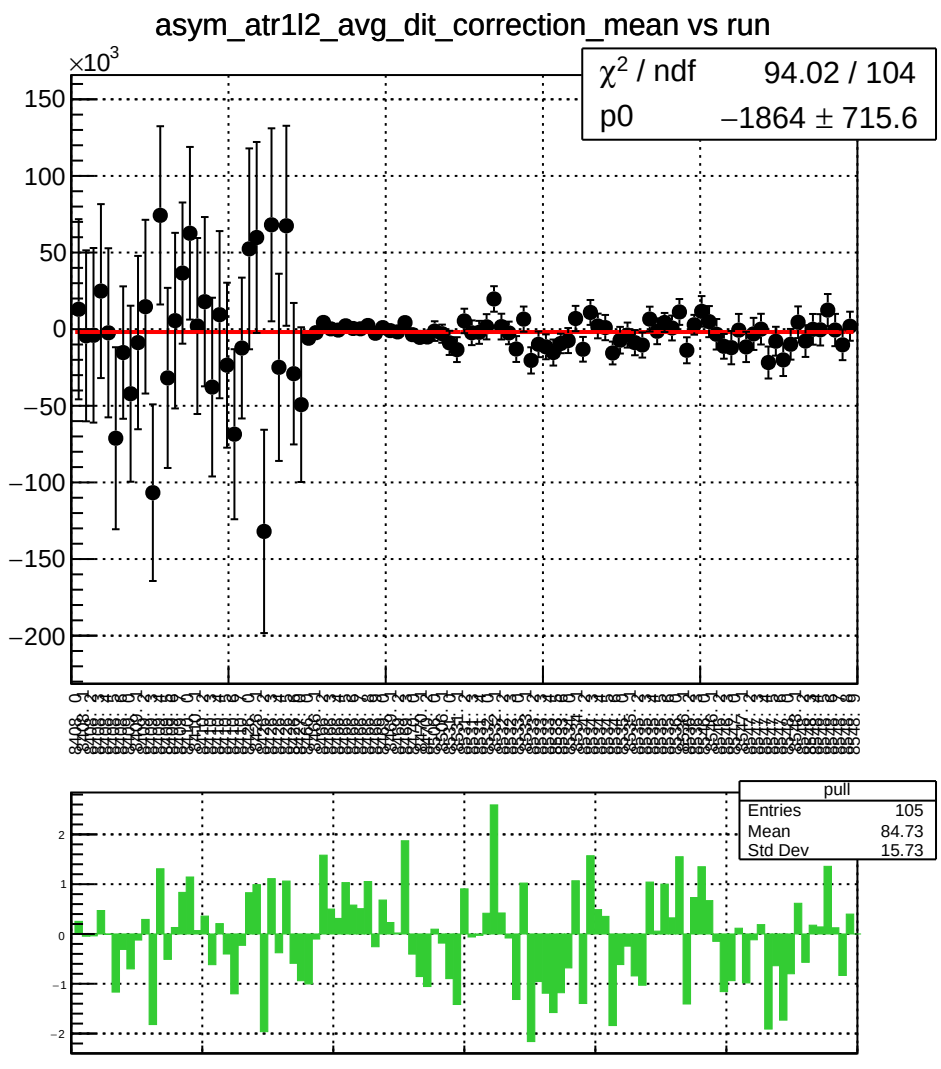

pull1D
Entries 105
Mean −0.07112
Std Dev 1.062
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

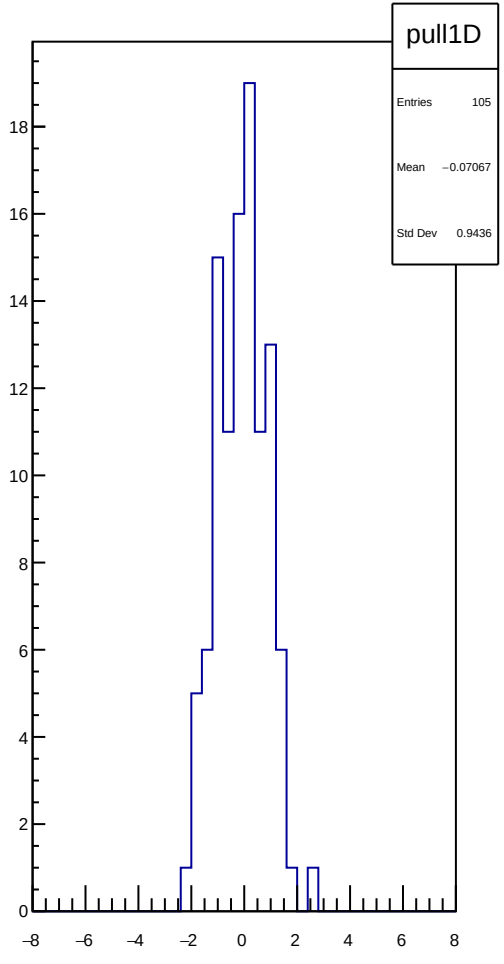

asym_atr1l2_avg_eigen_cor_correction_rms vs run
χ² / ndf 5.437e+05 / 104
p0 843 ± 0.6877
6000
5000
4000
3000
2000
1000

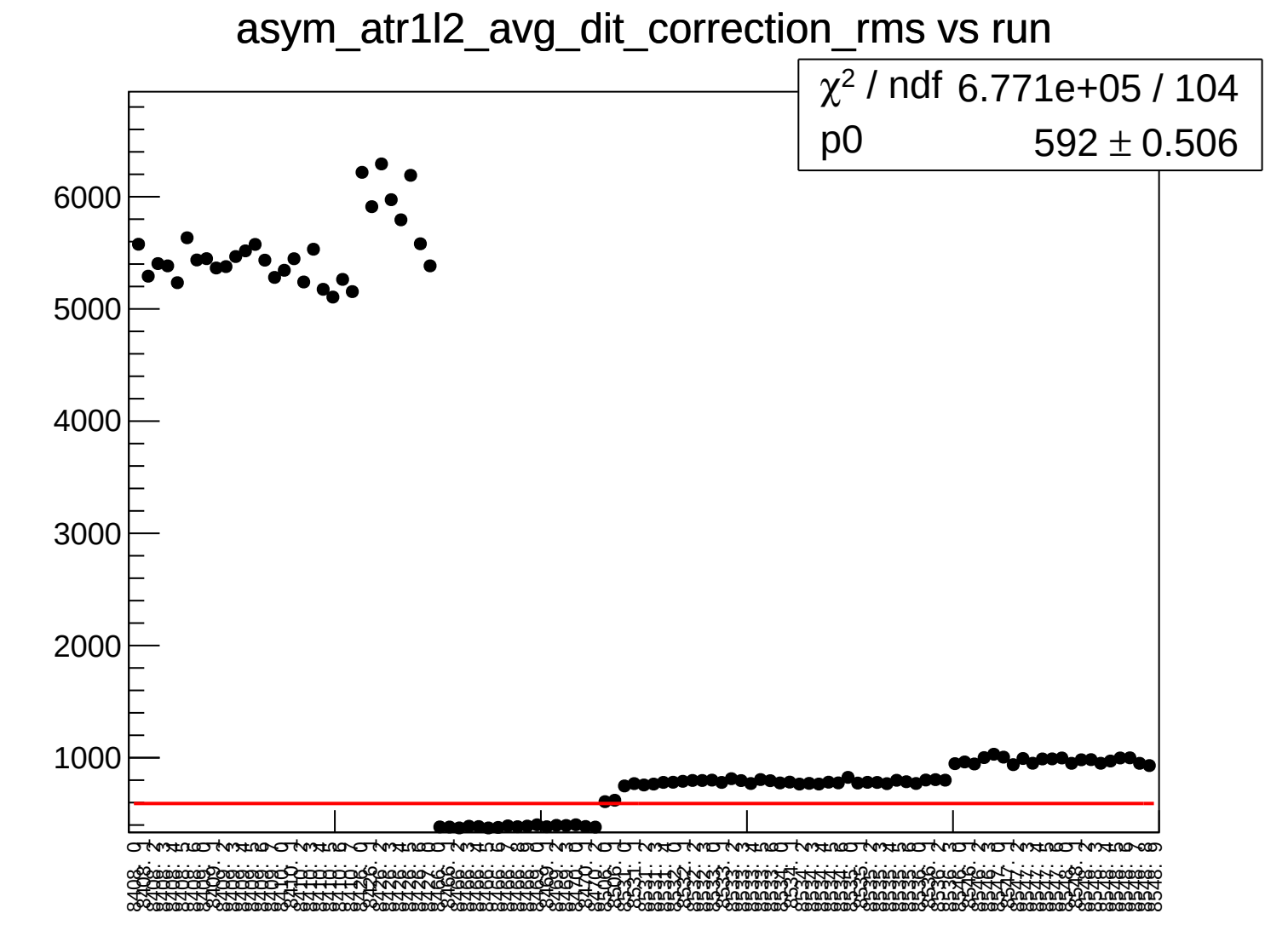

dit_asym_atr1l2_avg_mean vs run
×10^3
χ^2 / ndf 86.23 / 104
p0 2270 ± 3209
1000
500
0
−500
−1000
pull
Entries 105
Mean 27.39
Std Dev 0
2
1
0
−1
−2

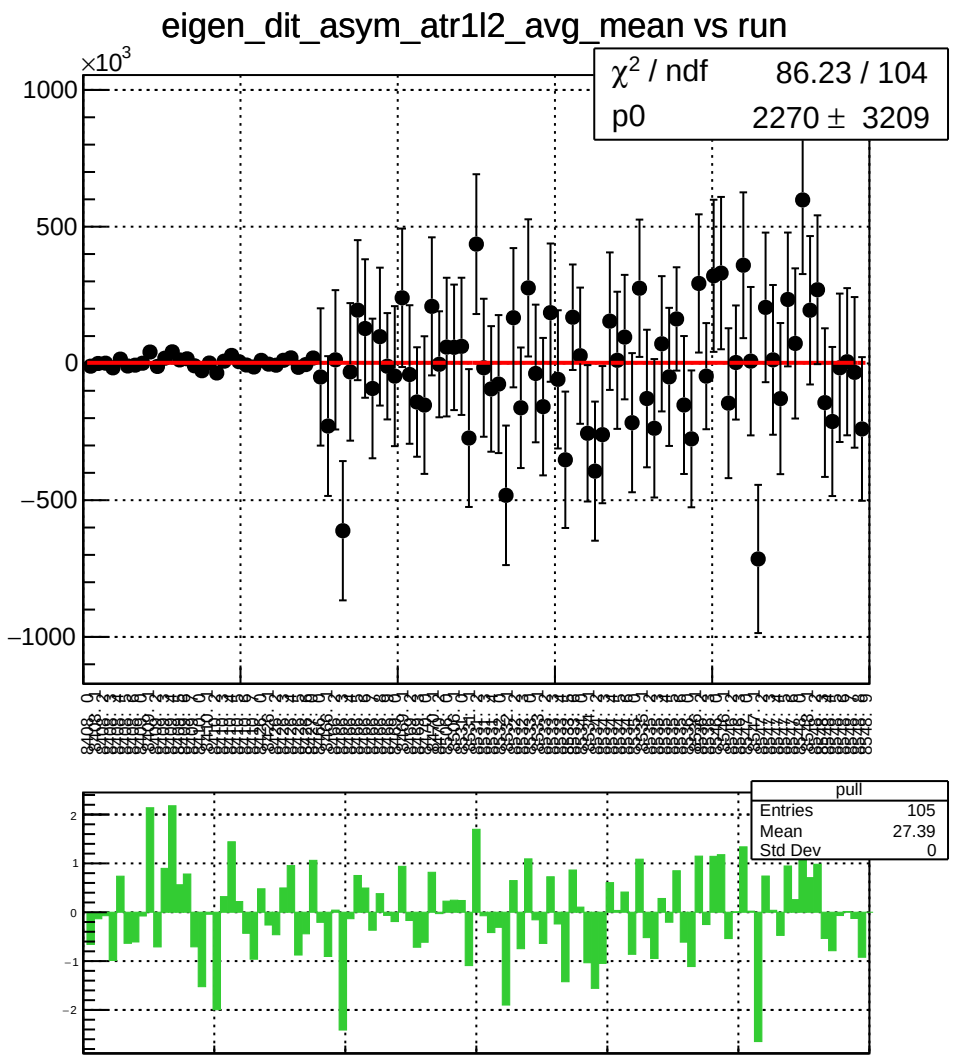

pull1D
Entries 105
Mean −0.02921
Std Dev 0.9058
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

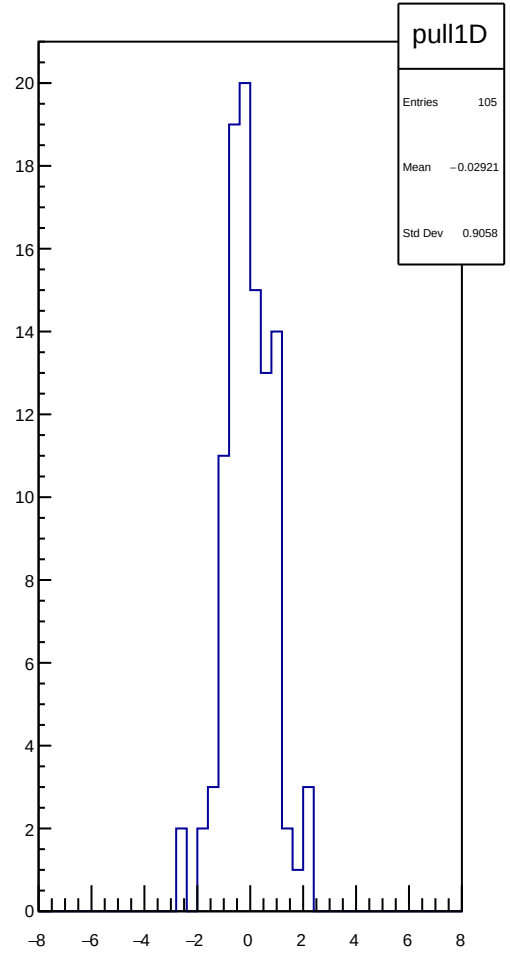

dit_asym_atr1l2_avg_rms vs run
χ² / ndf 1.226e+06 / 104
p0 2055 ± 2.269
25000
20000
15000
10000
5000

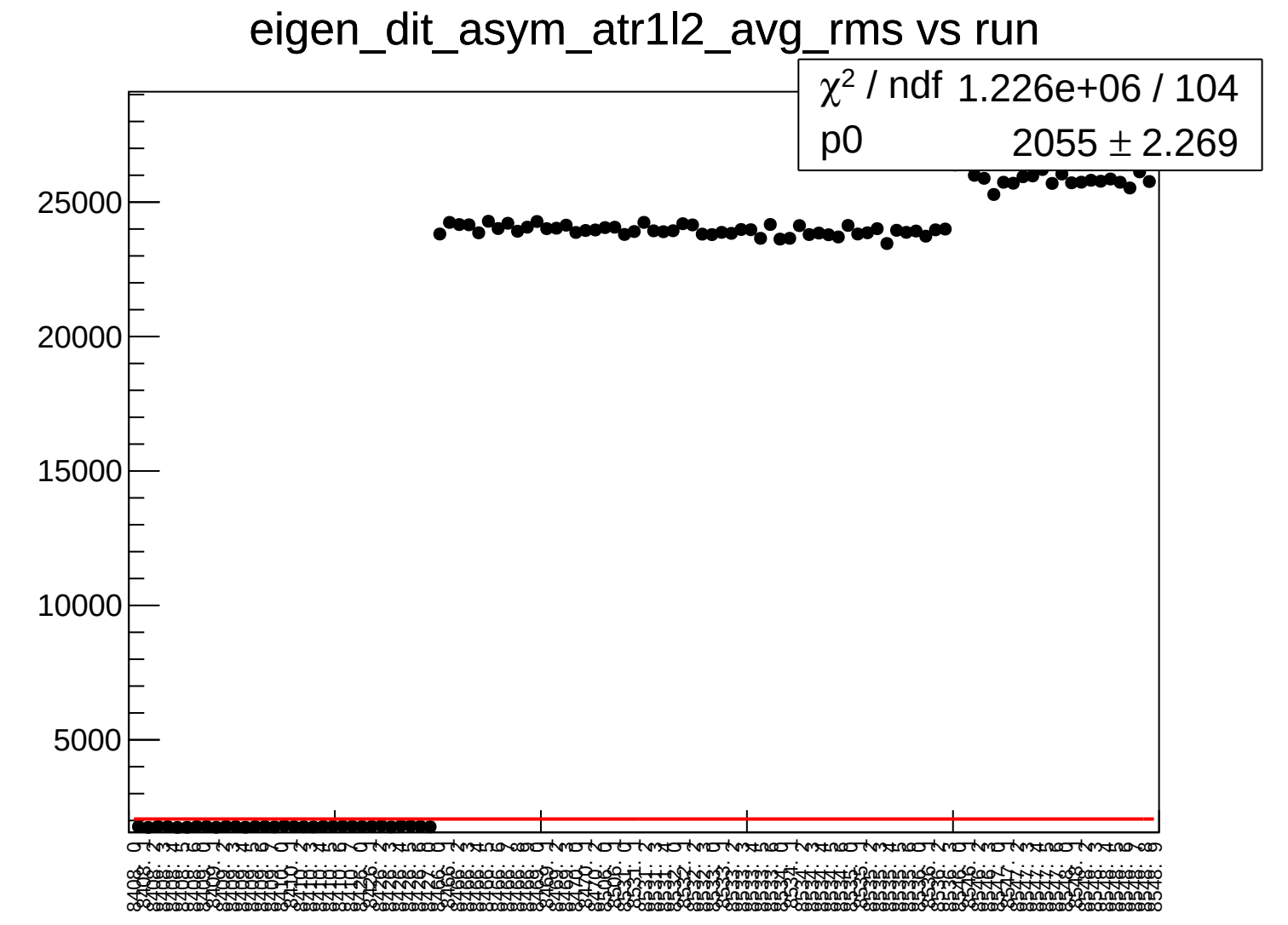

asym_atr1l2_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 94.02 / 104
p0 −1864 ± 715.6
150
100
50
0
−50
−100
−150
−200
pull
Entries 105
Mean 84.73
Std Dev 15.73
2
1
0
−1
−2

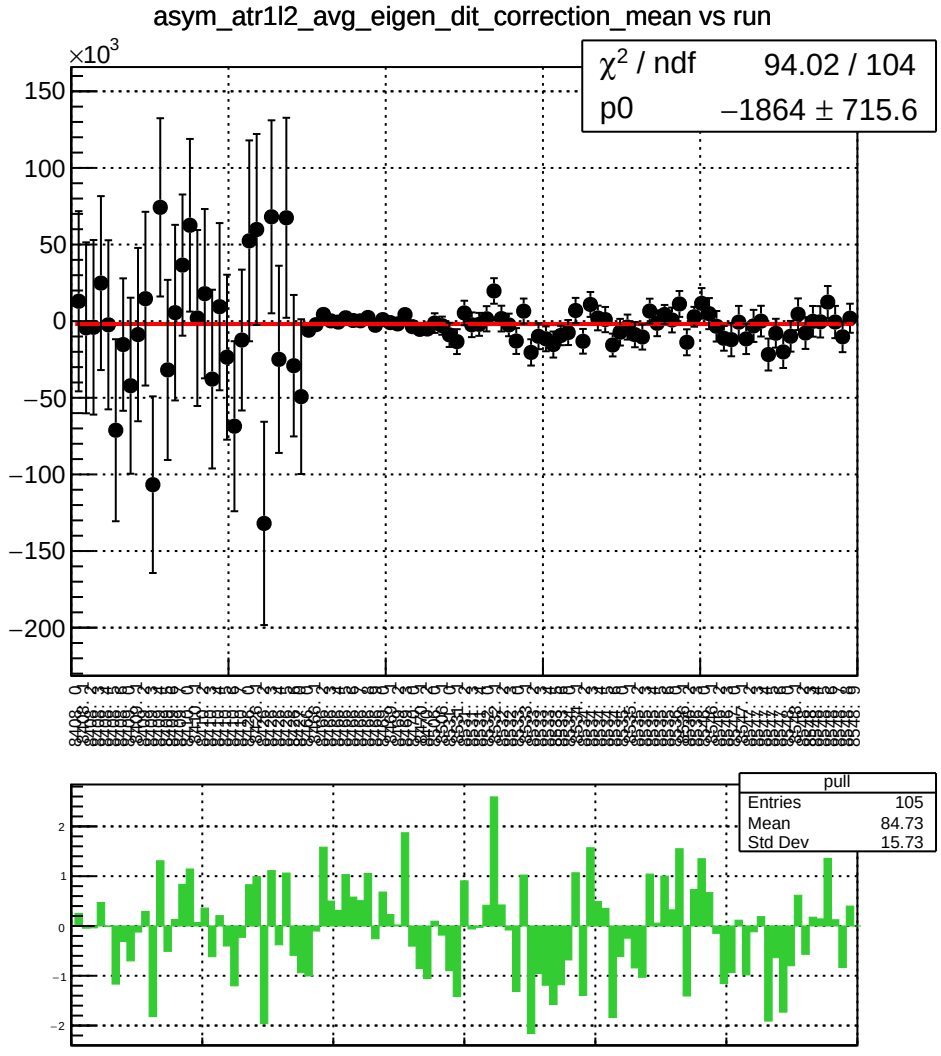

pull1D
Entries 105
Mean −0.07067
Std Dev 0.9436
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

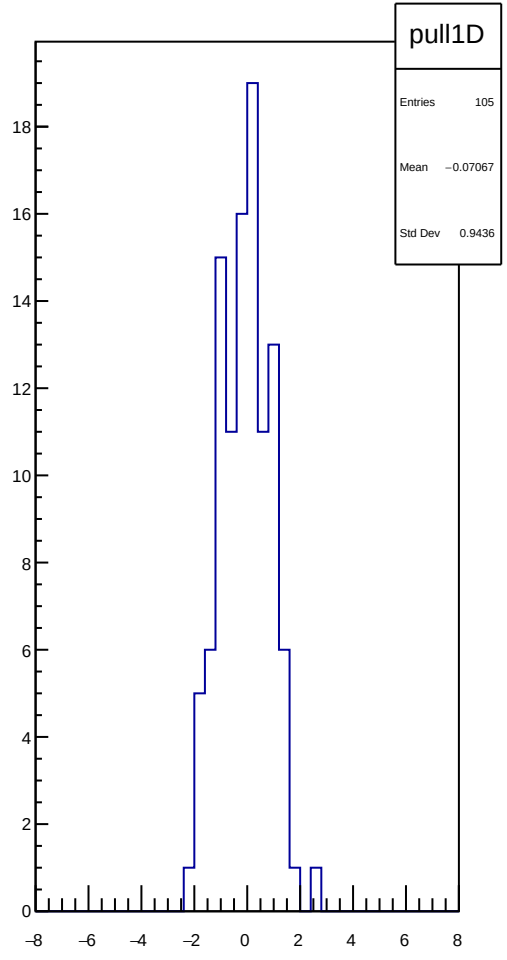

asym_atr1l2_avg_dit_correction_rms vs run
χ² / ndf 6.771e+05 / 104
p0 592 ± 0.506
6000
5000
4000
3000
2000
1000

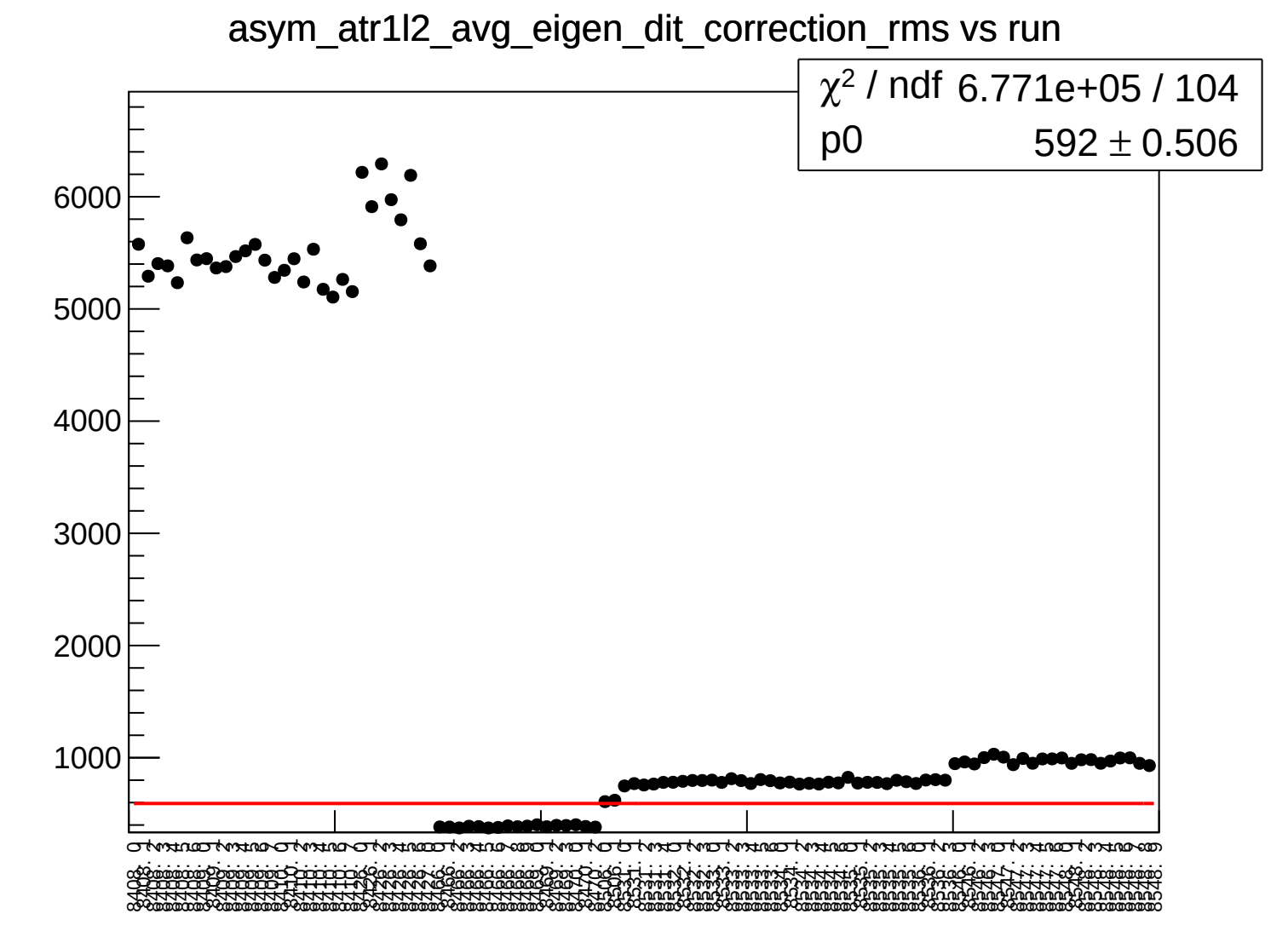

eigen_dit_asym_atr1l2_avg_mean vs run
×10^3
1000
500
0
−500
−1000
χ² / ndf 86.23 / 104
p0 2270 ± 3209
pull
Entries 105
Mean 27.39
Std Dev 0
2
1
0
−1
−2

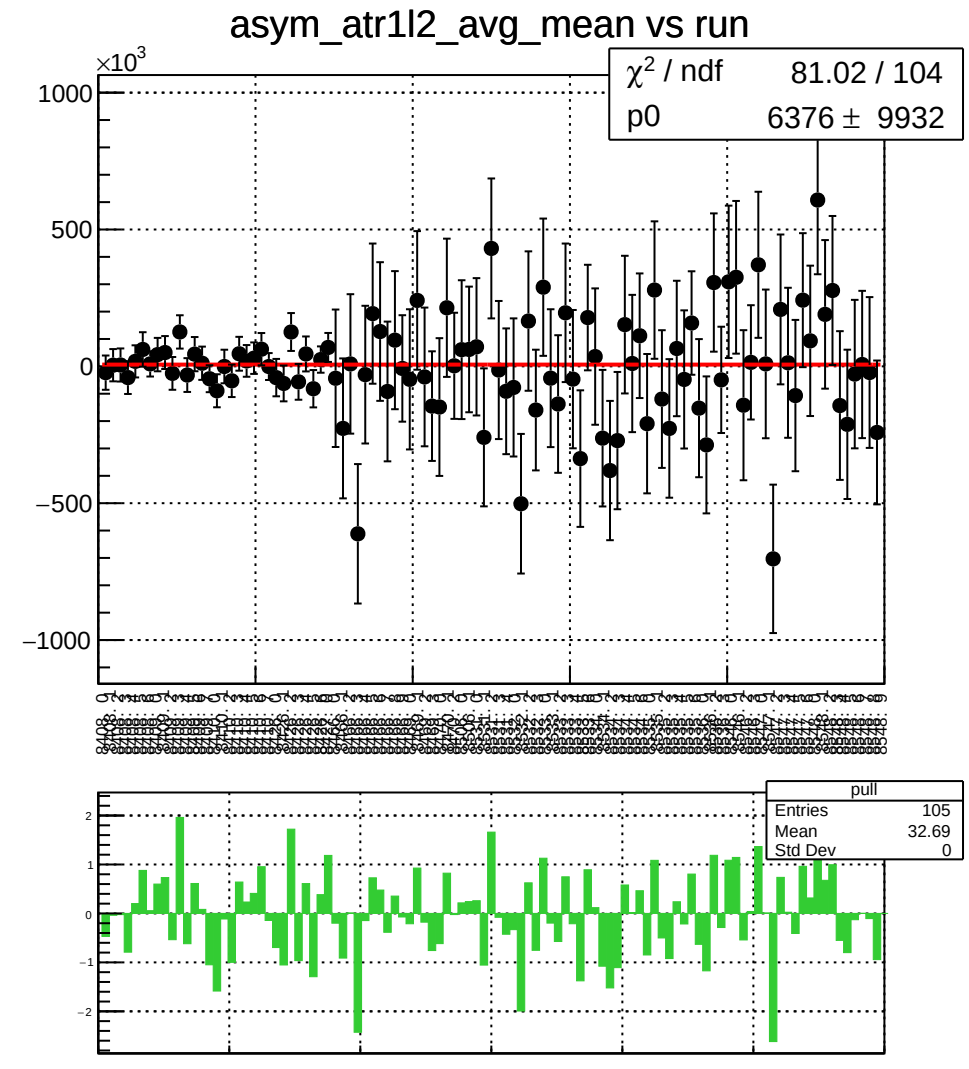

pull1D
Entries 105
Mean −0.02921
Std Dev 0.9058
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

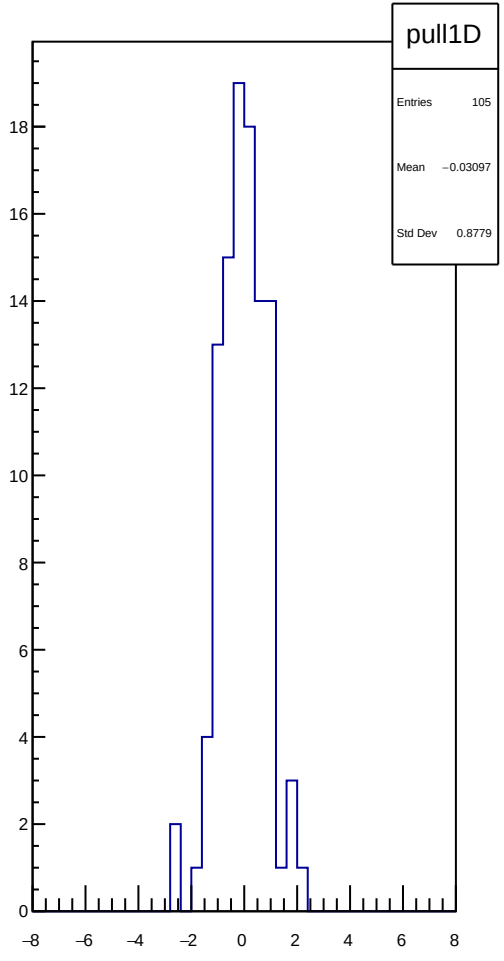

eigen_dit_asym_atr1l2_avg_rms vs run
χ² / ndf 1.226e+06 / 104
p0 2055 ± 2.269
25000
20000
15000
10000
5000

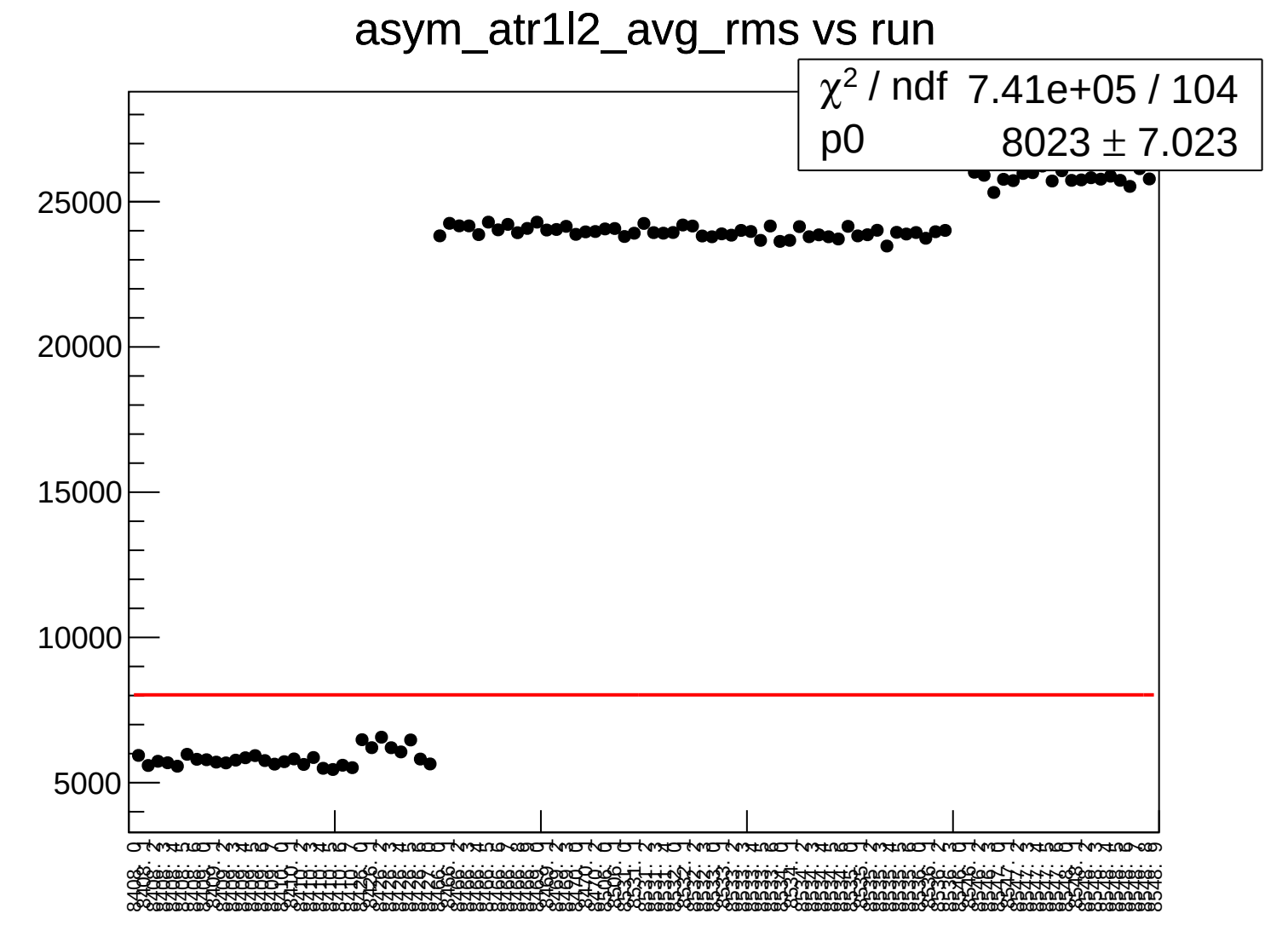

asym_atr1l2_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 94.02 / 104
p0 −1864 ± 715.6
150
100
50
0
−50
−100
−150
−200
pull
Entries 105
Mean 84.73
Std Dev 15.73
2
1
0
−1
−2

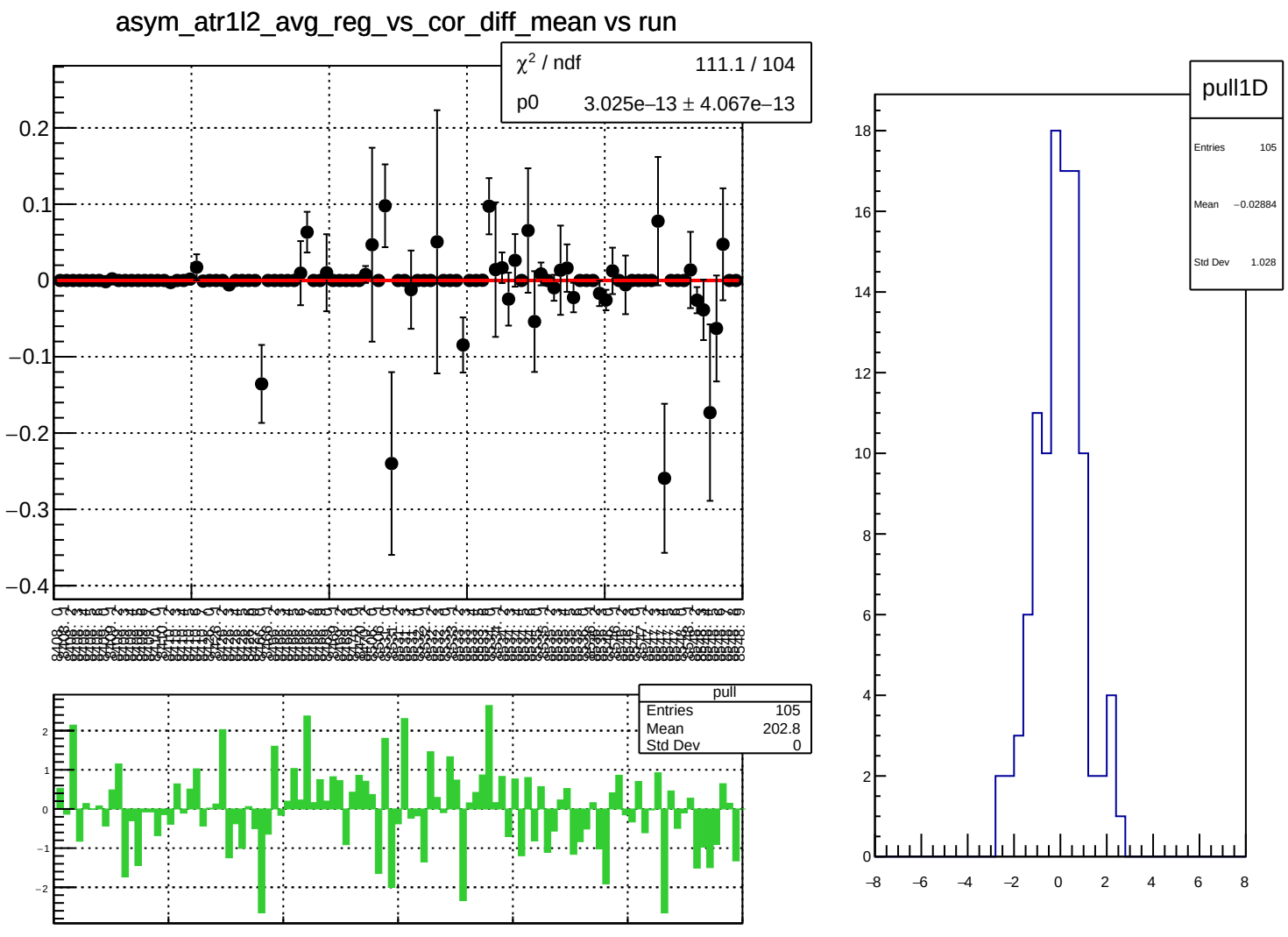

pull1D
Entries 105
Mean −0.07067
Std Dev 0.9436
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

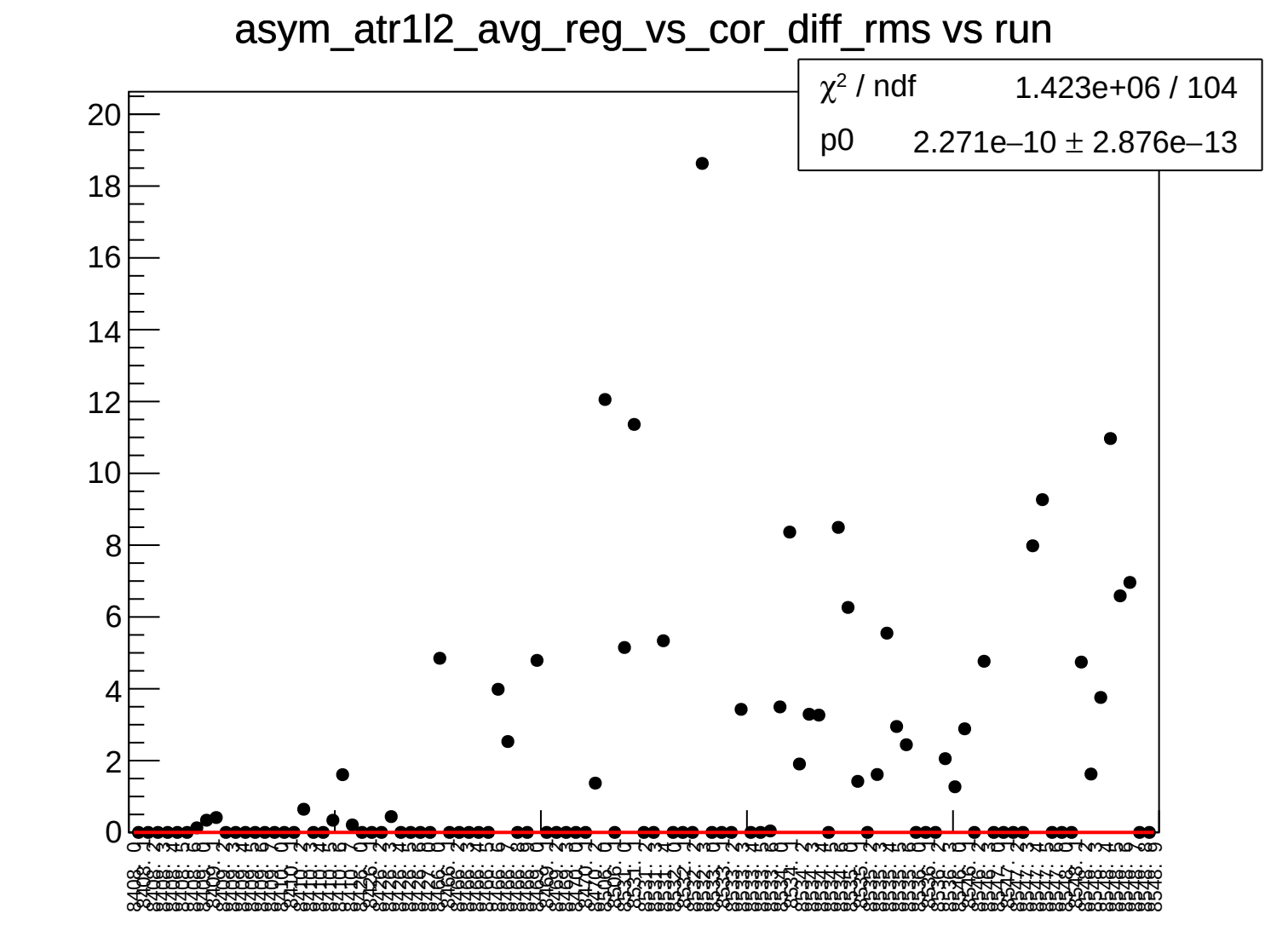

asym_atr1l2_avg_eigen_dit_correction_rms vs run
χ² / ndf 6.771e+05 / 104
p0 592 ± 0.506
6000
5000
4000
3000
2000
1000

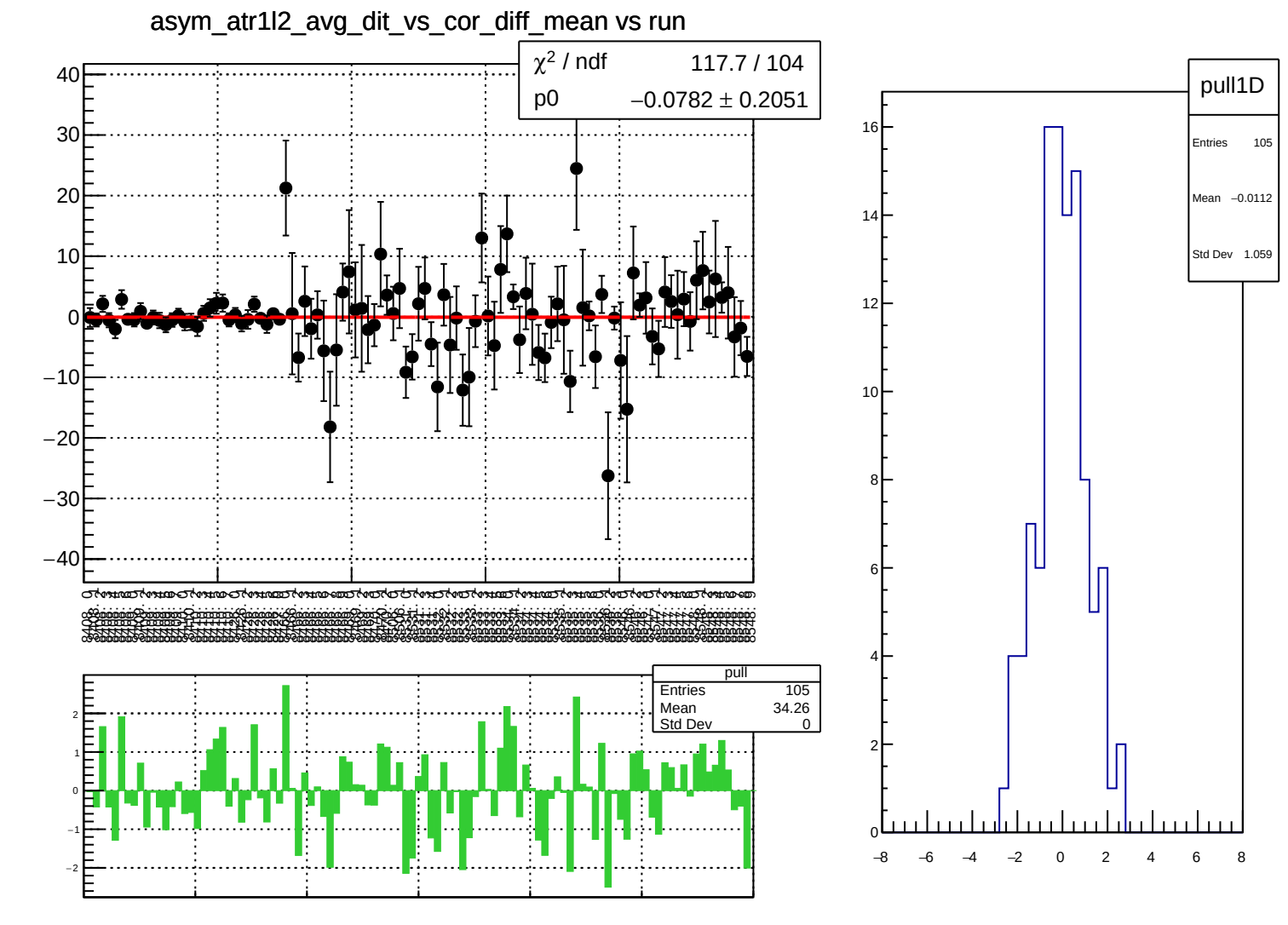

asym_atr1l2_avg_mean vs run
×10^3
χ^2 / ndf 81.02 / 104
p0 6376 ± 9932
1000
500
0
−500
−1000
pull
Entries 105
Mean 32.69
Std Dev 0
2
1
0
−1
−2

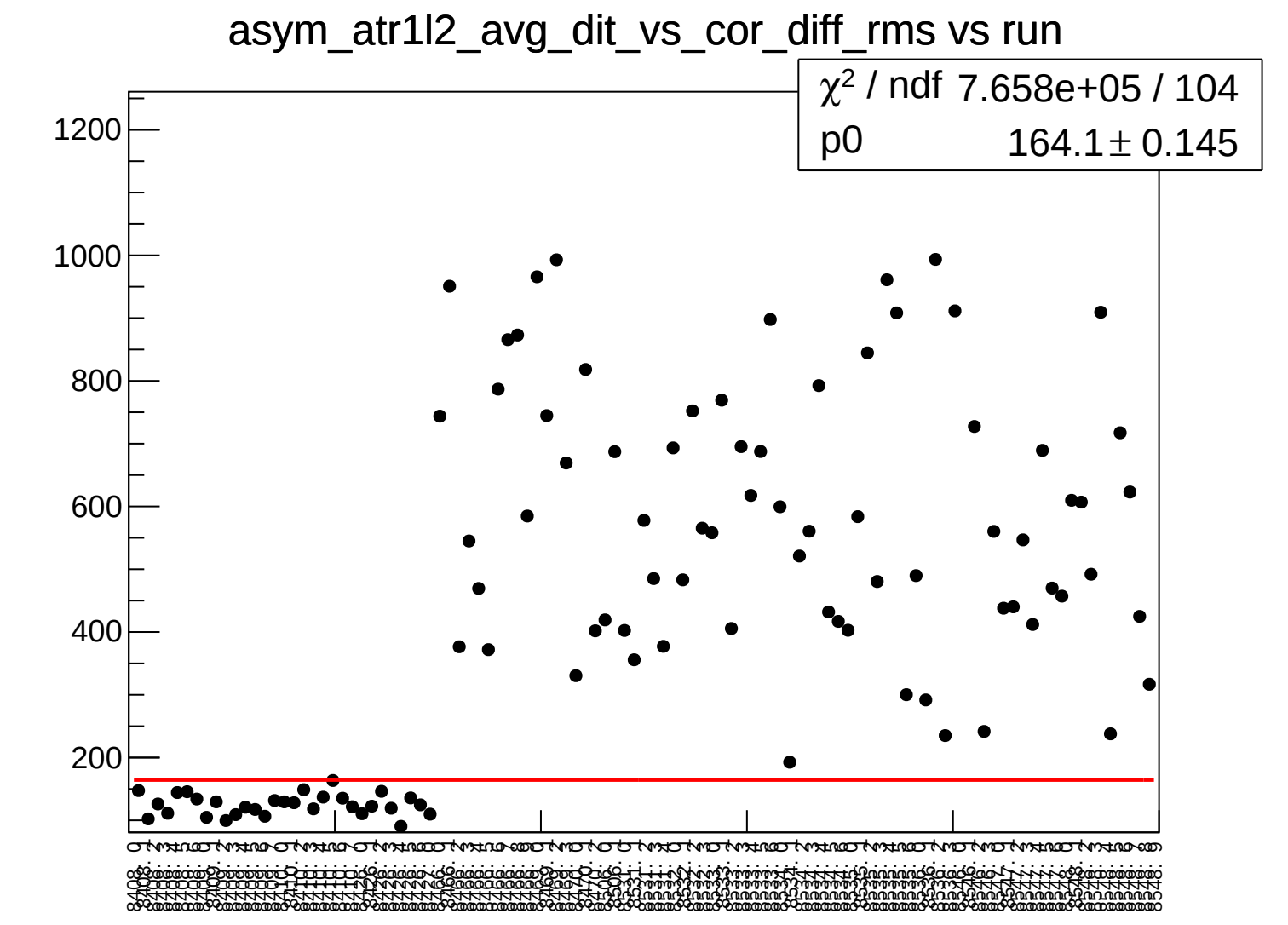

pull1D
Entries 105
Mean −0.03097
Std Dev 0.8779
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

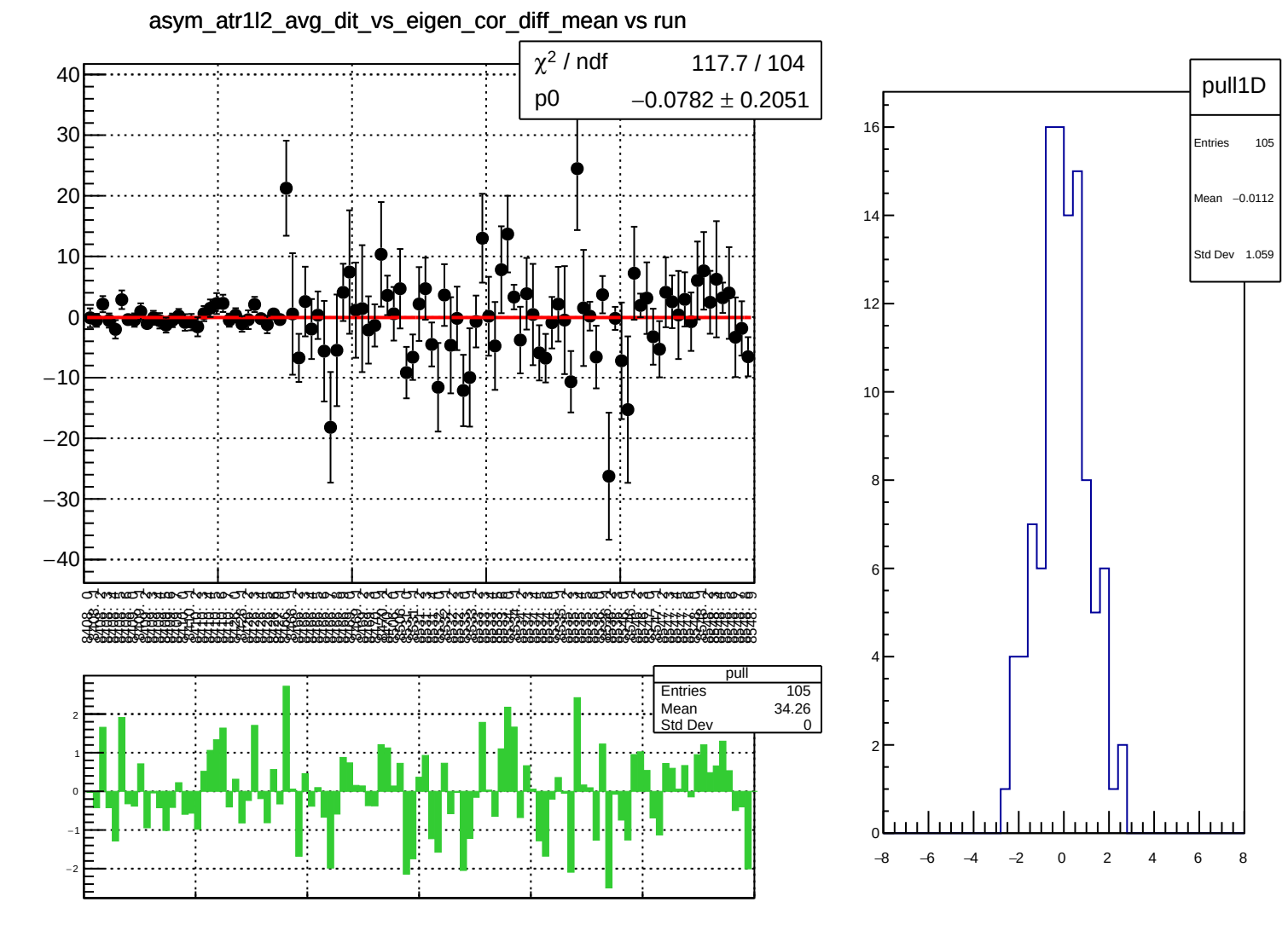

asym_atr1l2_avg_rms vs run
χ^2 / ndf 7.41e+05 / 104
p0 8023 ± 7.023
25000
20000
15000
10000
5000

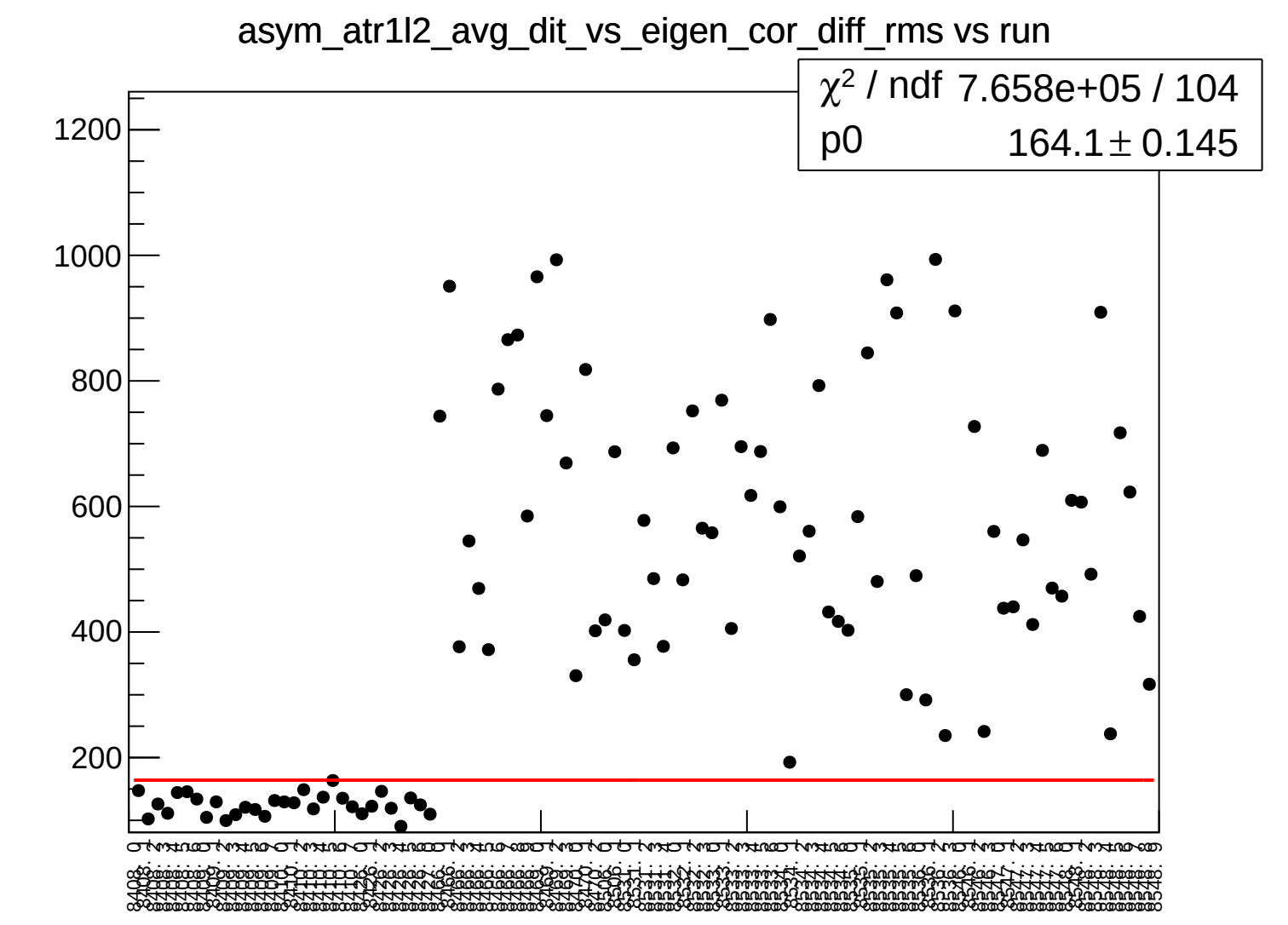

asym_atr1l2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 111.1 / 104
p0 3.025e−13 ± 4.067e−13
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull
Entries 105
Mean 202.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.02884
Std Dev 1.028
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

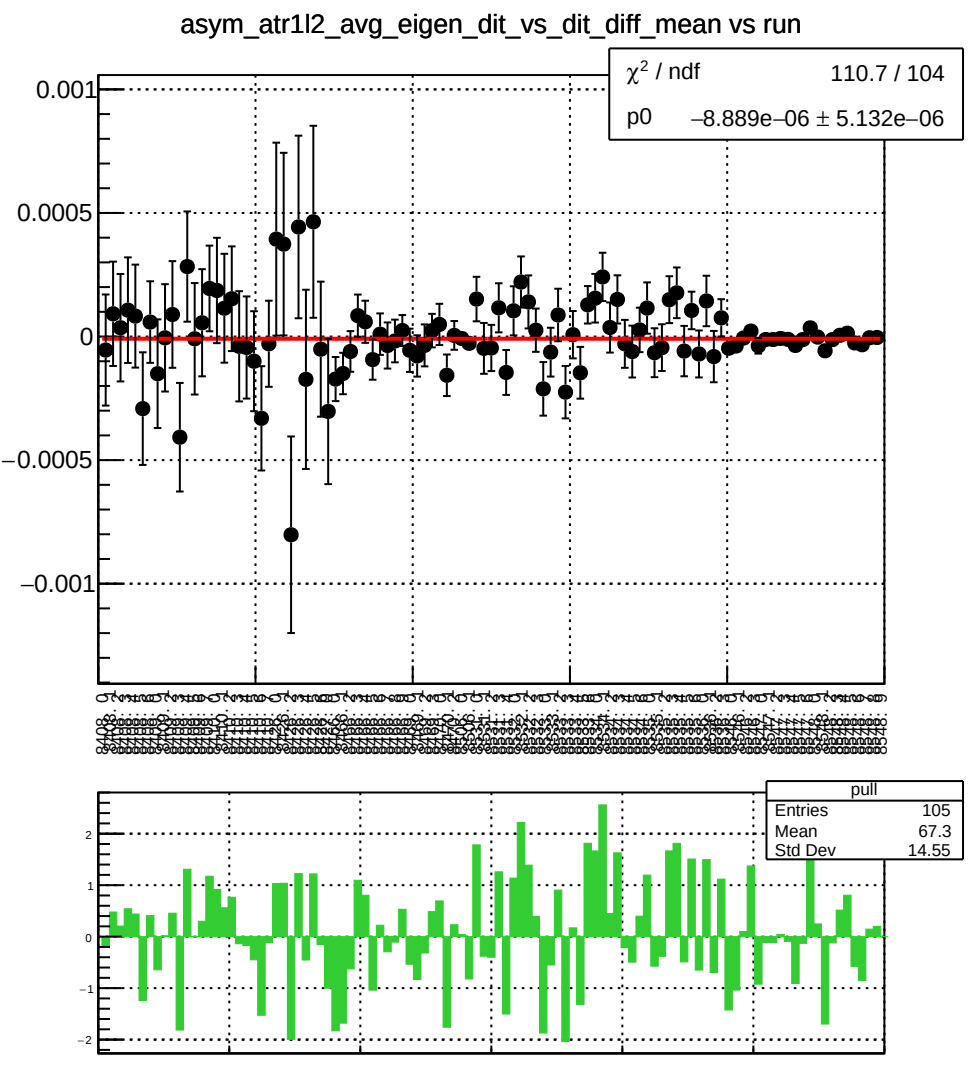

asym_atr1l2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.423e+06 / 104
p0 2.271e−10 ± 2.876e−13
20
18
16
14
12
10
8
6
4
2
0

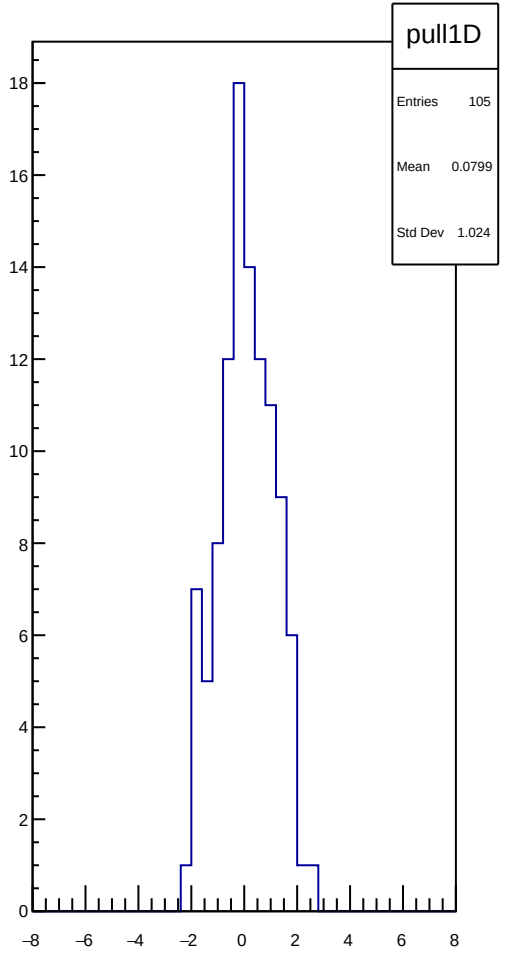

asym_atr1l2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 117.7 / 104
p0 −0.0782 ± 0.2051
pull
Entries 105
Mean 34.26
Std Dev 0
pull1D
Entries 105
Mean −0.0112
Std Dev 1.059

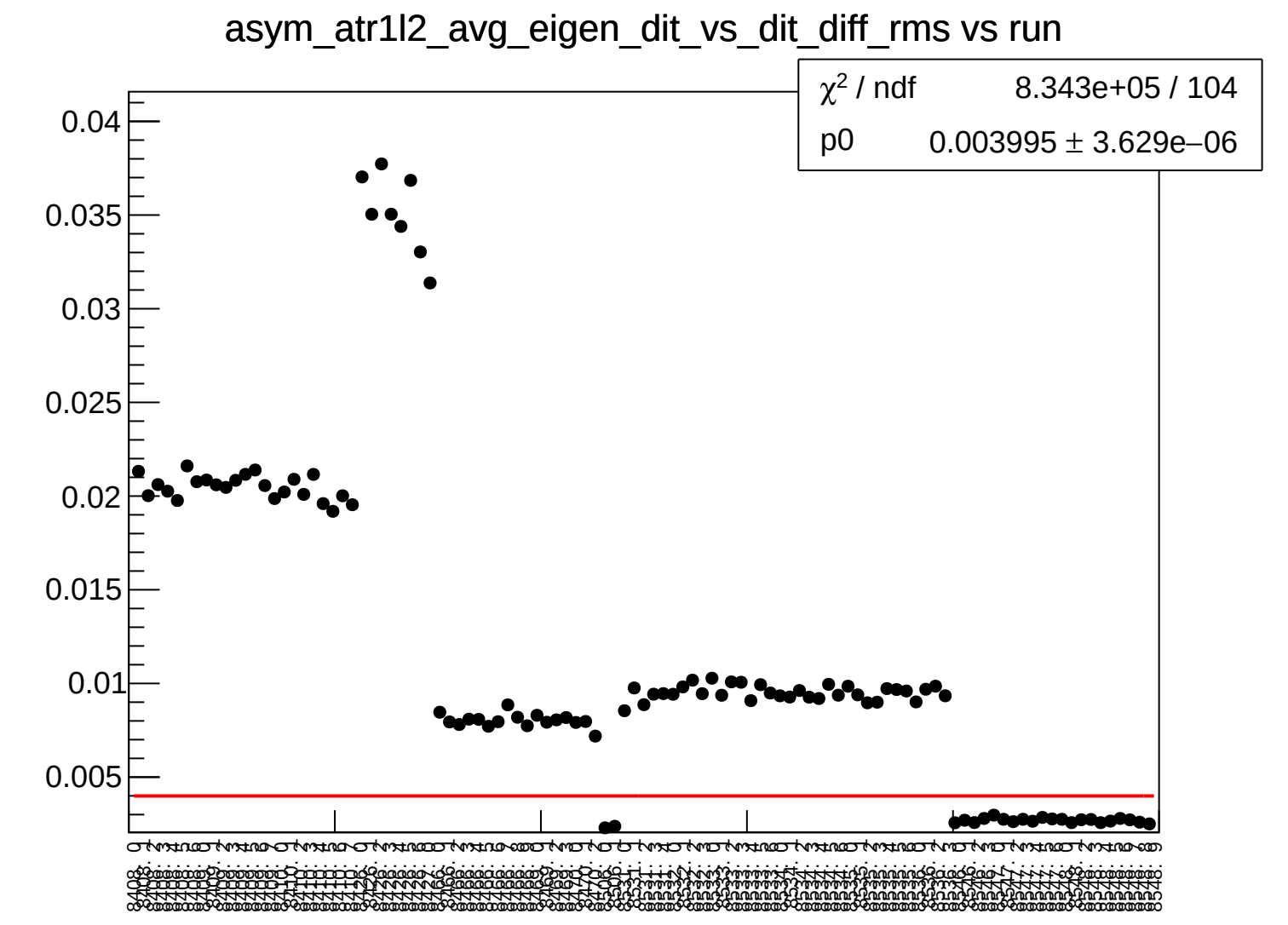

asym_atr1l2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 7.658e+05 / 104
p0 164.1 ± 0.145
1200
1000
800
600
400
200

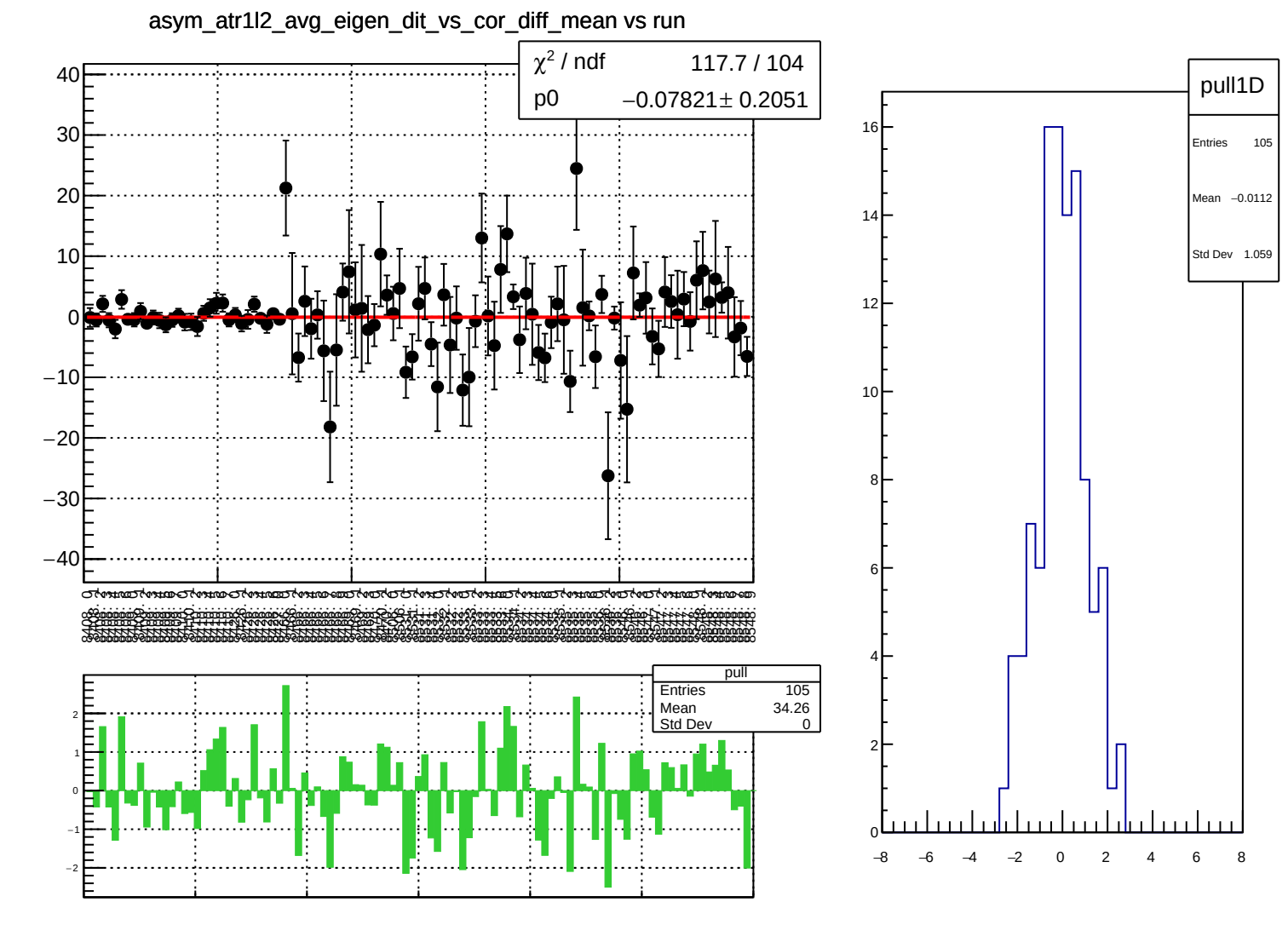

asym_atr1l2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 117.7 / 104
p0 −0.0782 ± 0.2051
pull
Entries 105
Mean 34.26
Std Dev 0
pull1D
Entries 105
Mean −0.0112
Std Dev 1.059

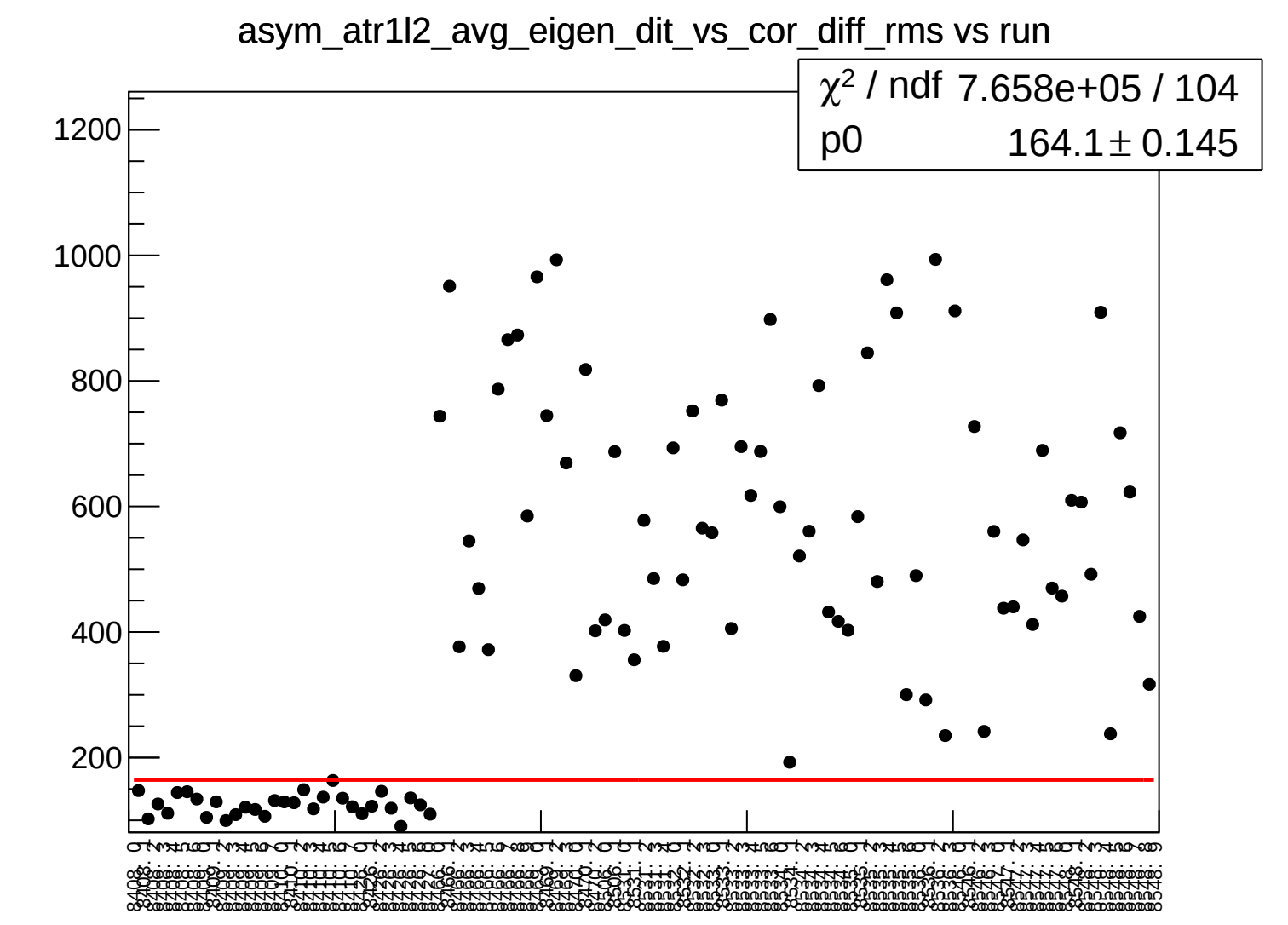

asym_atr1l2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.658e+05 / 104
p0 164.1 ± 0.145
1200
1000
800
600
400
200

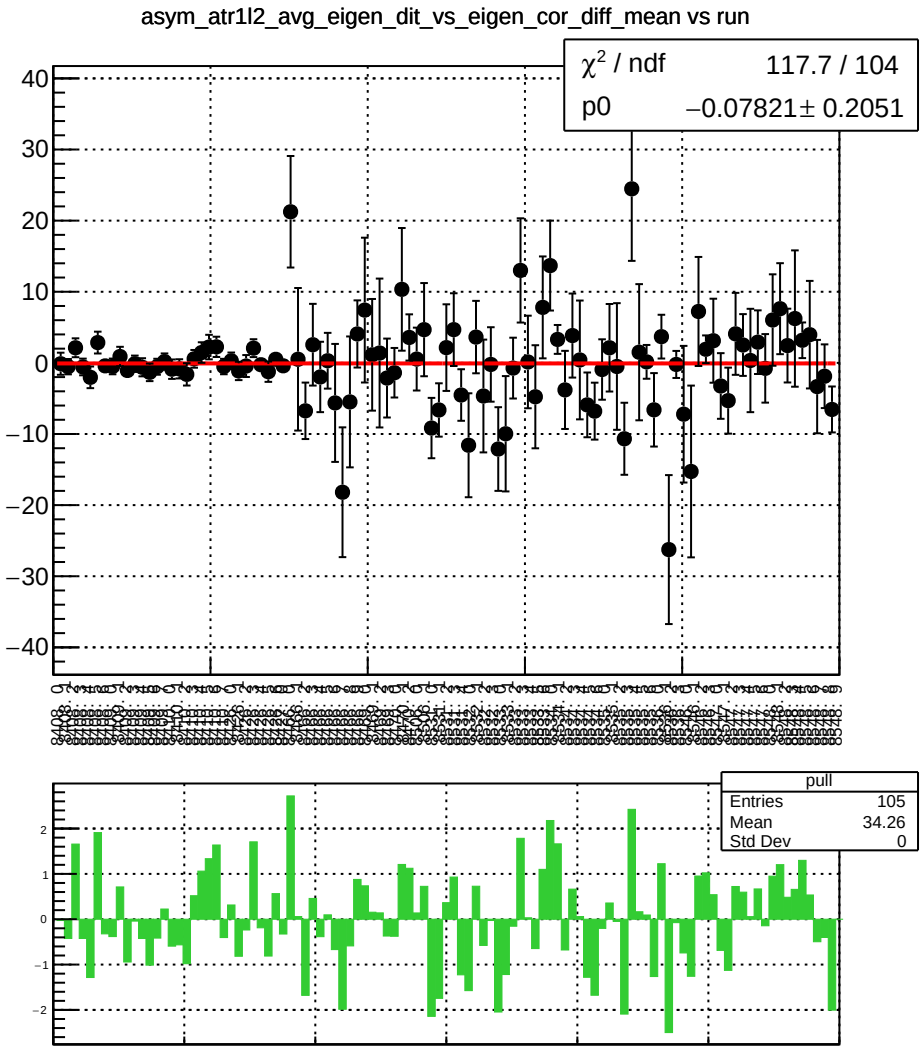

asym_atr1l2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 110.7 / 104
p0 −8.889e−06 ± 5.132e−06
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 105
Mean 67.3
Std Dev 14.55
2
1
0
−1
−2

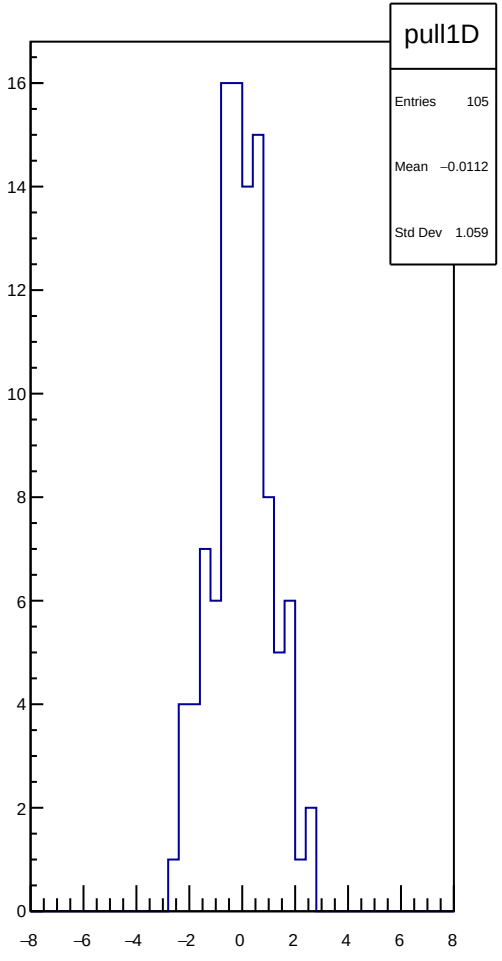

pull1D
Entries 105
Mean 0.0799
Std Dev 1.024
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

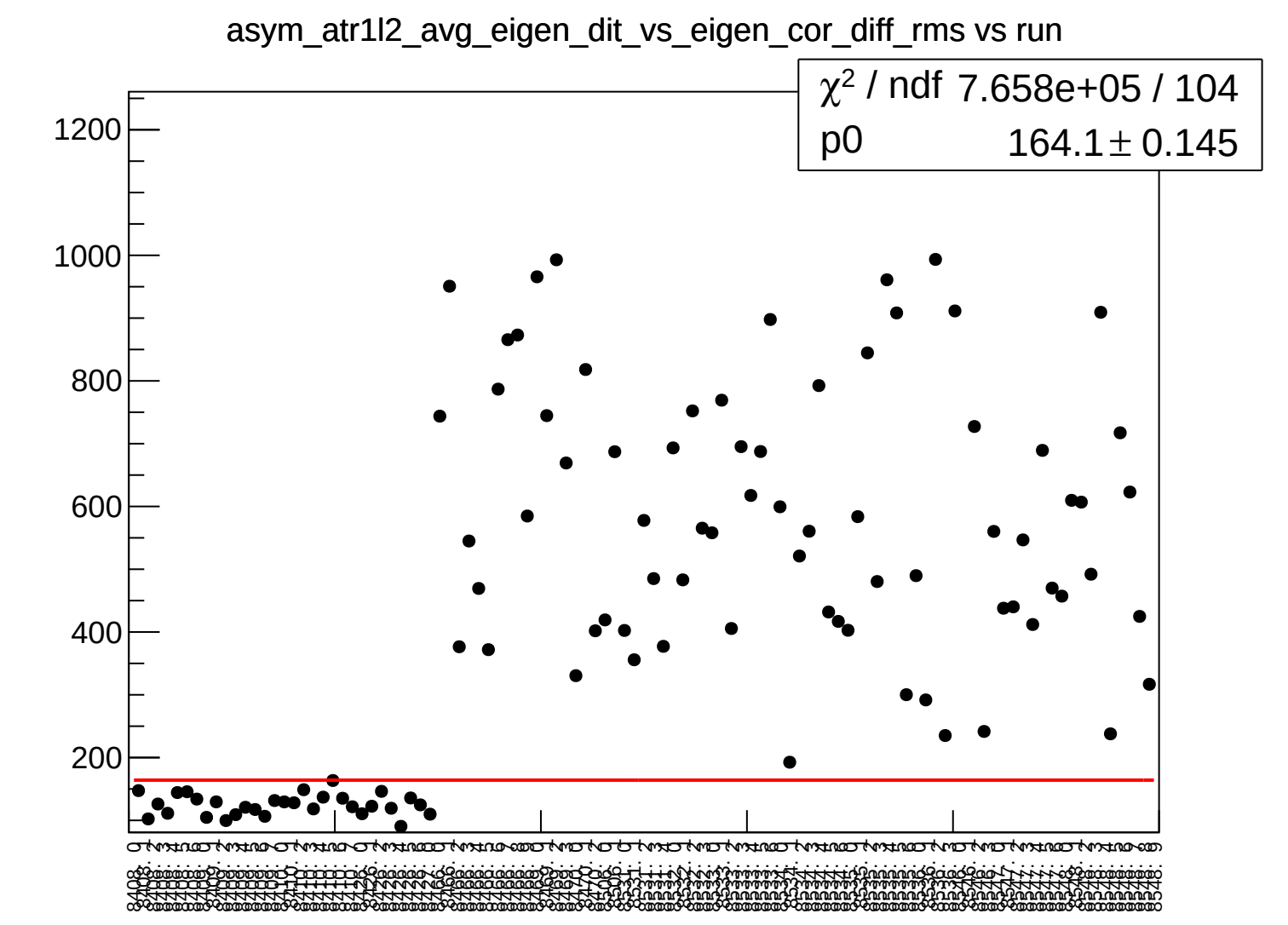

asym_atr1l2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.343e+05 / 104
p0 0.003995 ± 3.629e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

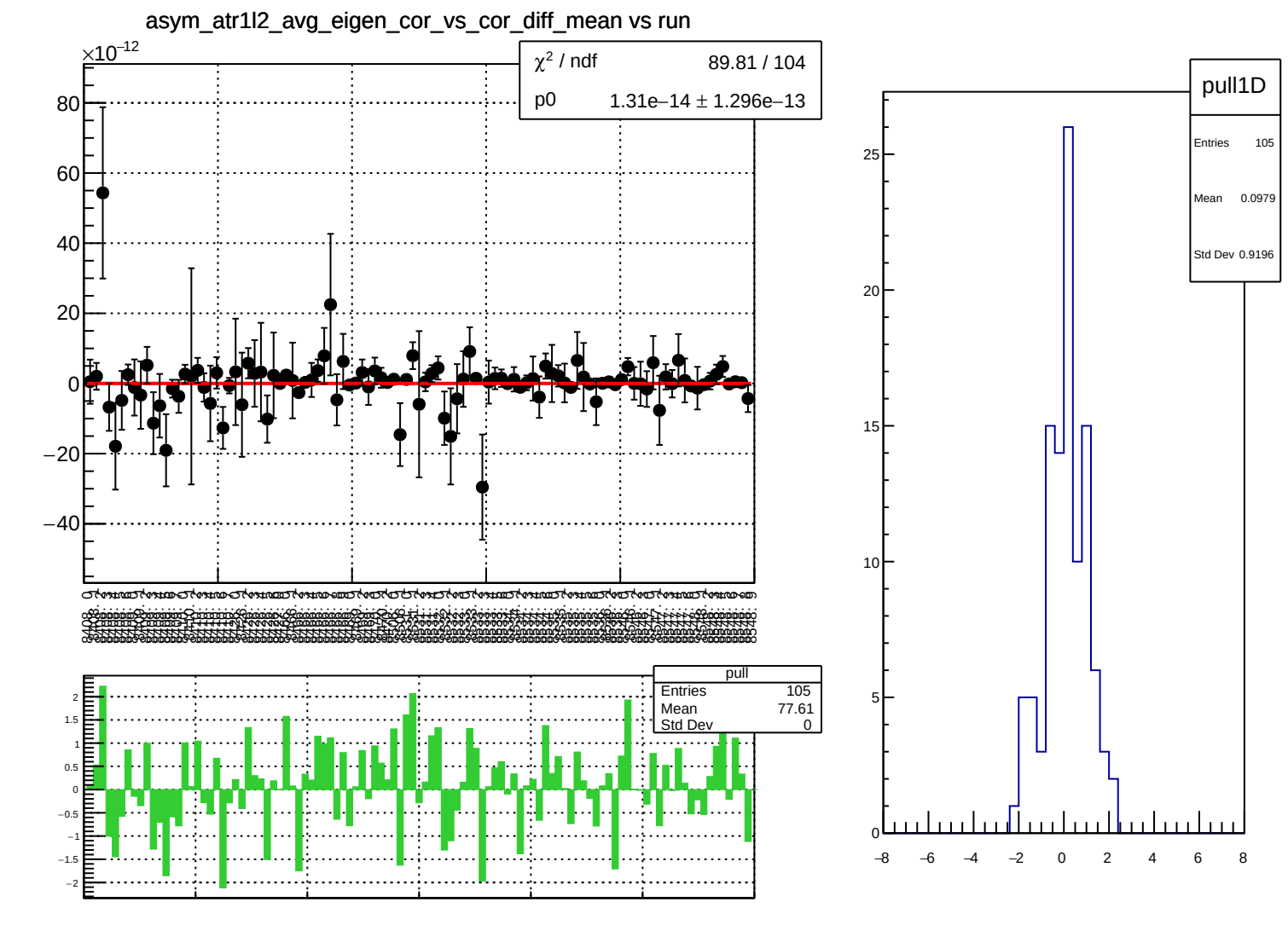

asym_atr1l2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 117.7 / 104
p0 −0.07821 ± 0.2051
pull
Entries 105
Mean 34.26
Std Dev 0
pull1D
Entries 105
Mean −0.0112
Std Dev 1.059

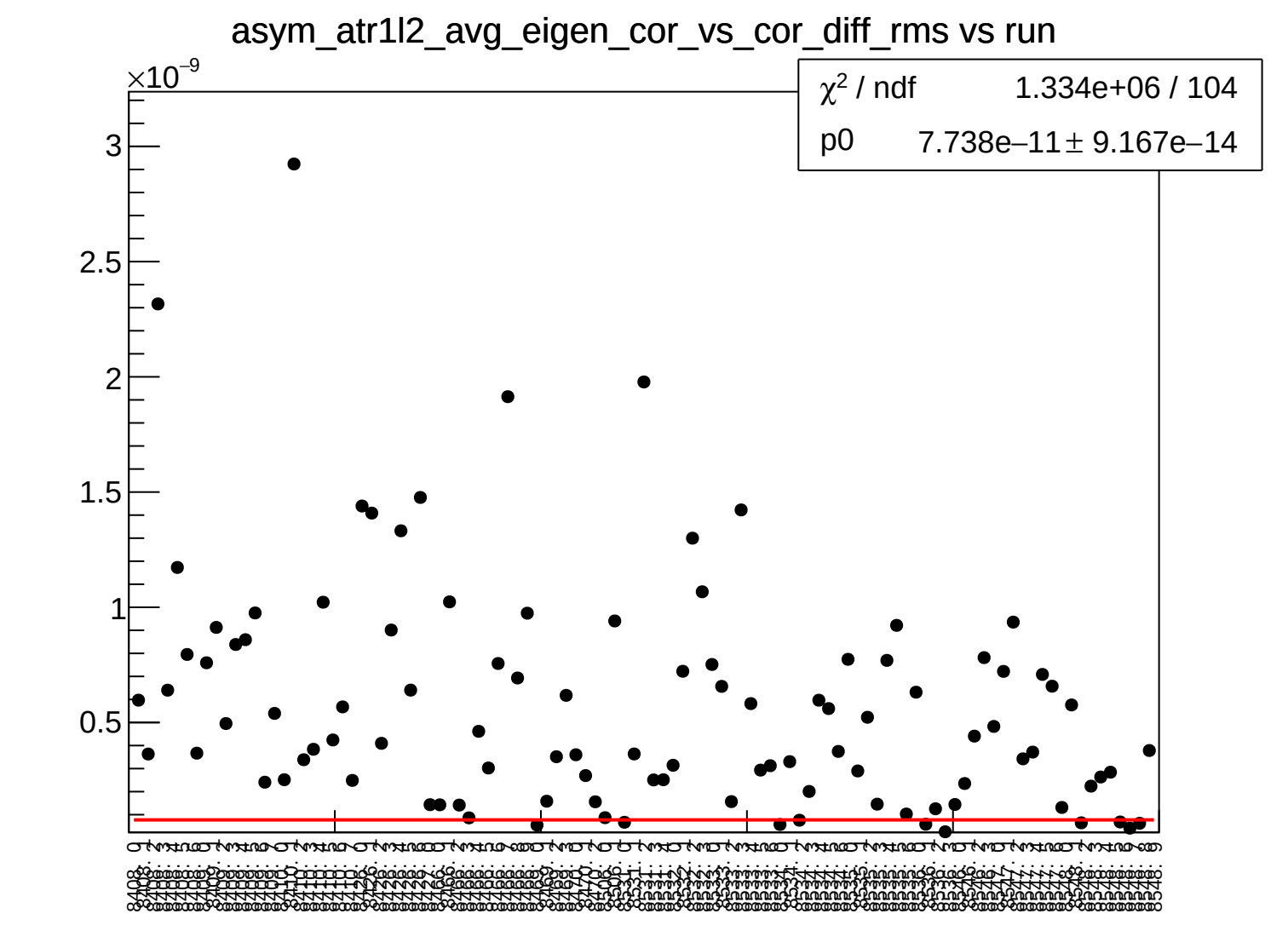

asym_atr1l2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.658e+05 / 104
p0 164.1 ± 0.145
1200
1000
800
600
400
200

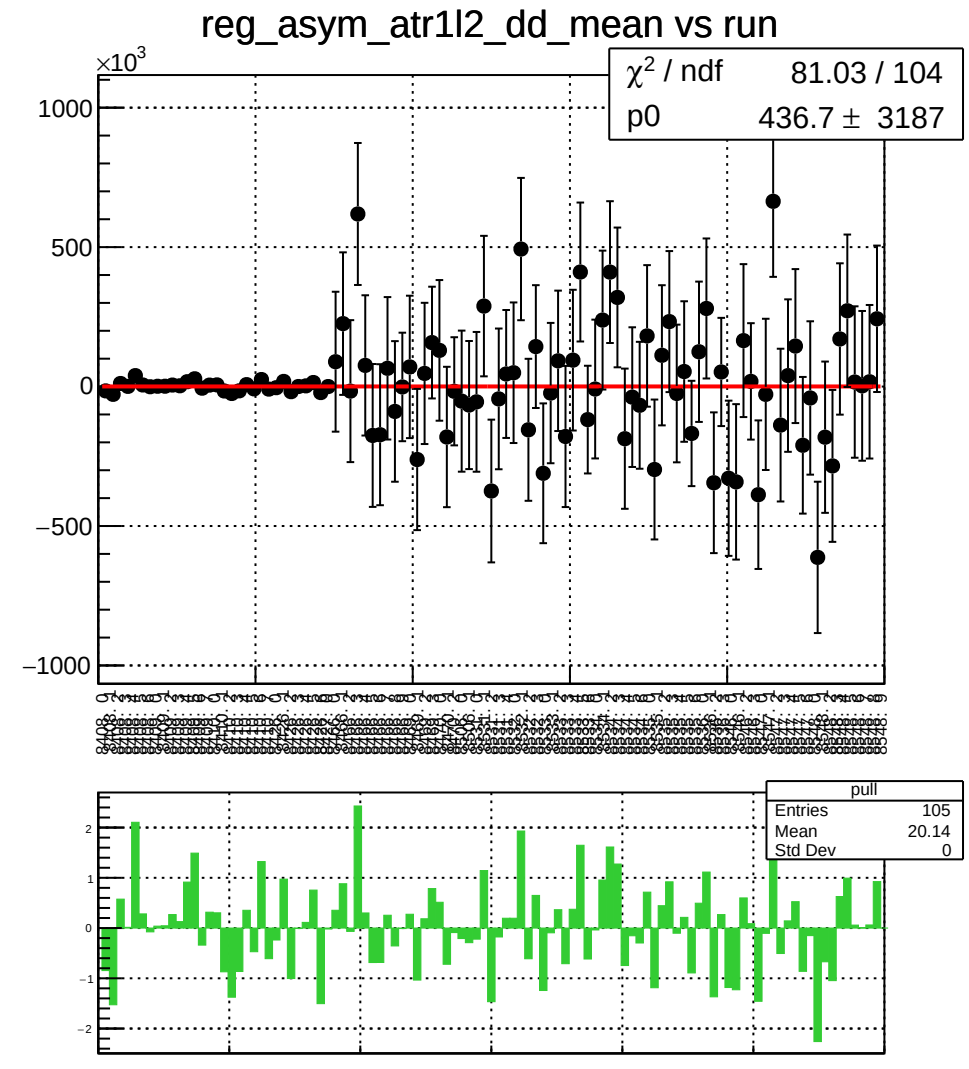

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 117.7 / 104
p0 −0.07821 ± 0.2051
pull
Entries 105
Mean 34.26
Std Dev 0

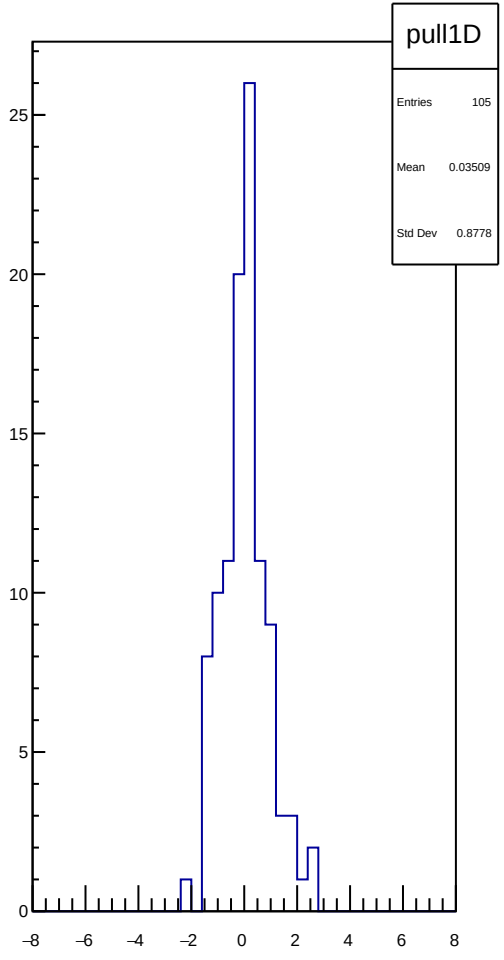

pull1D
Entries 105
Mean −0.0112
Std Dev 1.059

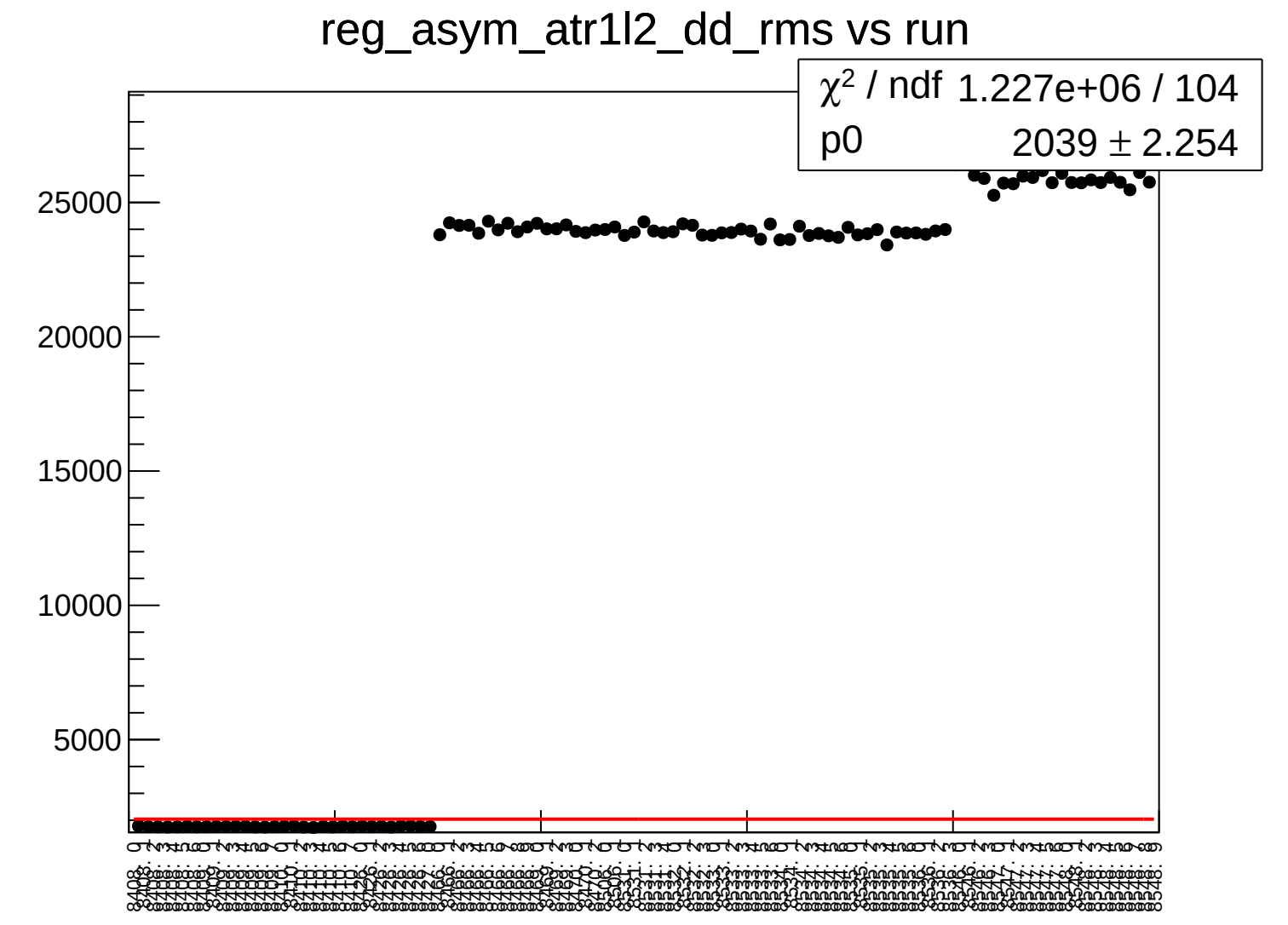

asym_atr1l2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.658e+05 / 104
p0 164.1 ± 0.145
1200
1000
800
600
400
200

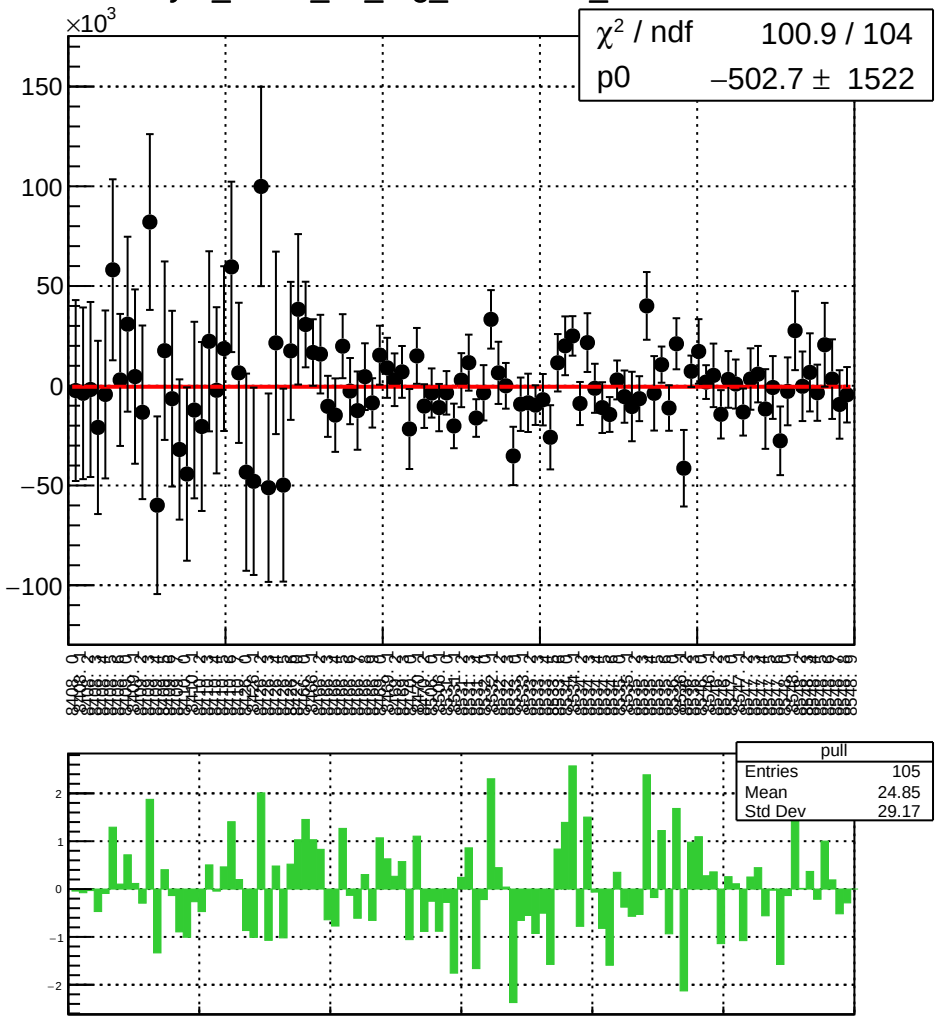

asym_atr1l2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 89.81 / 104
p0 1.31e−14 ± 1.296e−13
80
60
40
20
0
−20
−40
pull
Entries 105
Mean 77.61
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 105
Mean 0.0979
Std Dev 0.9196
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

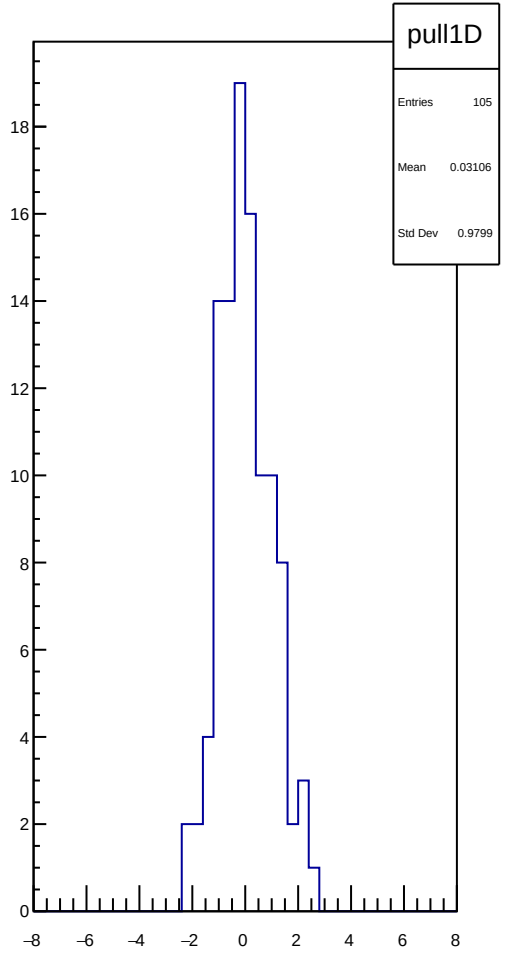

asym_atr1l2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.334e+06 / 104
p0 7.738e−11 ± 9.167e−14
3
2.5
2
1.5
1
0.5

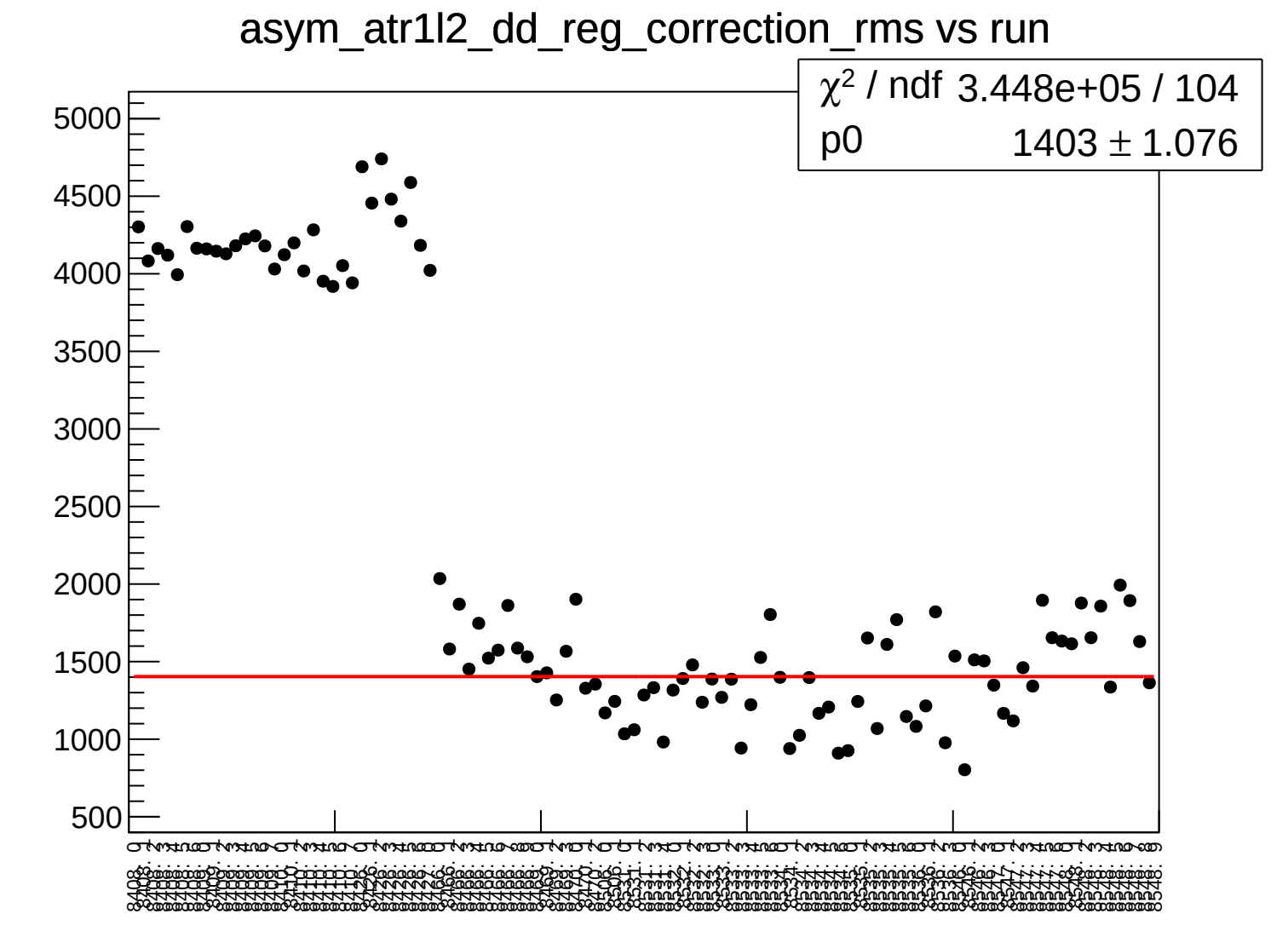

reg_asym_atr1l2_dd_mean vs run
×10^3
χ^2 / ndf 81.03 / 104
p0 436.7 ± 3187
1000
500
0
−500
−1000
pull
Entries 105
Mean 20.14
Std Dev 0
2
1
0
−1
−2

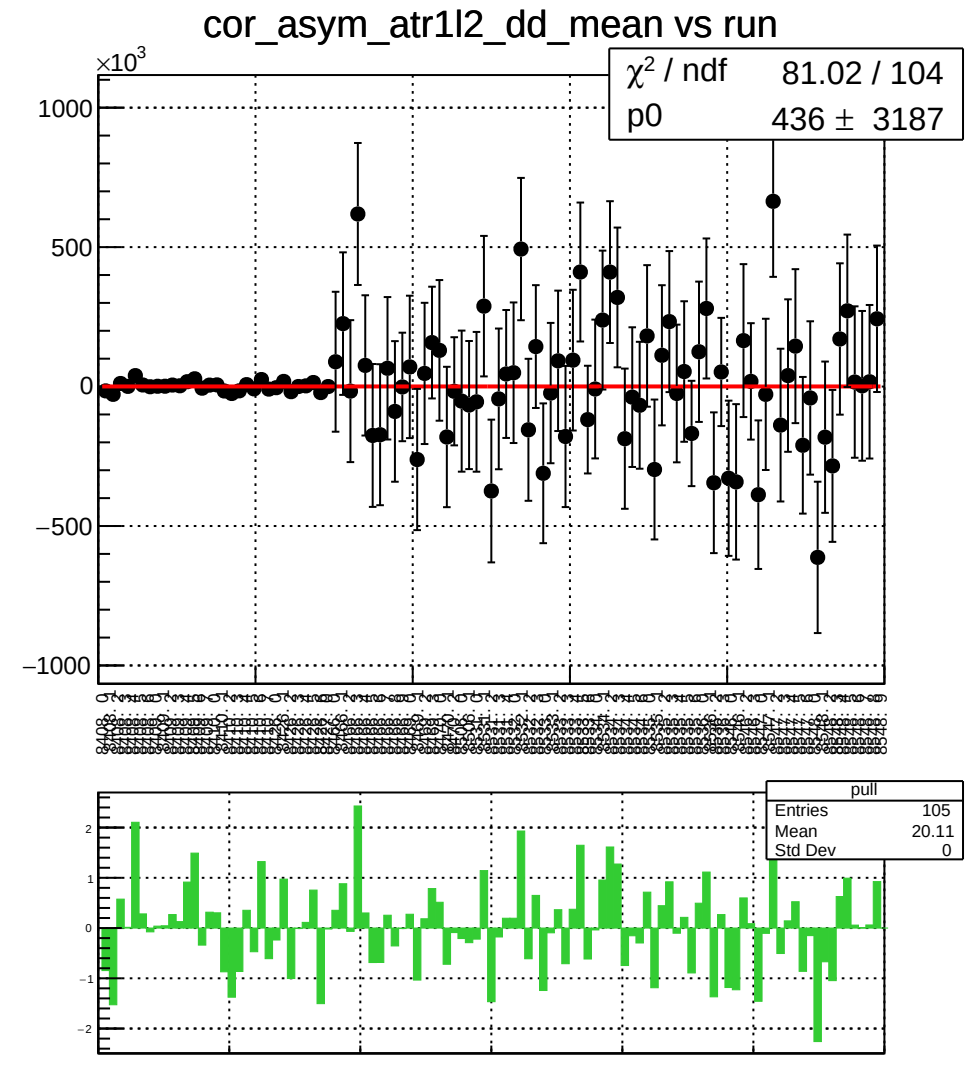

pull1D
Entries 105
Mean 0.03509
Std Dev 0.8778
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

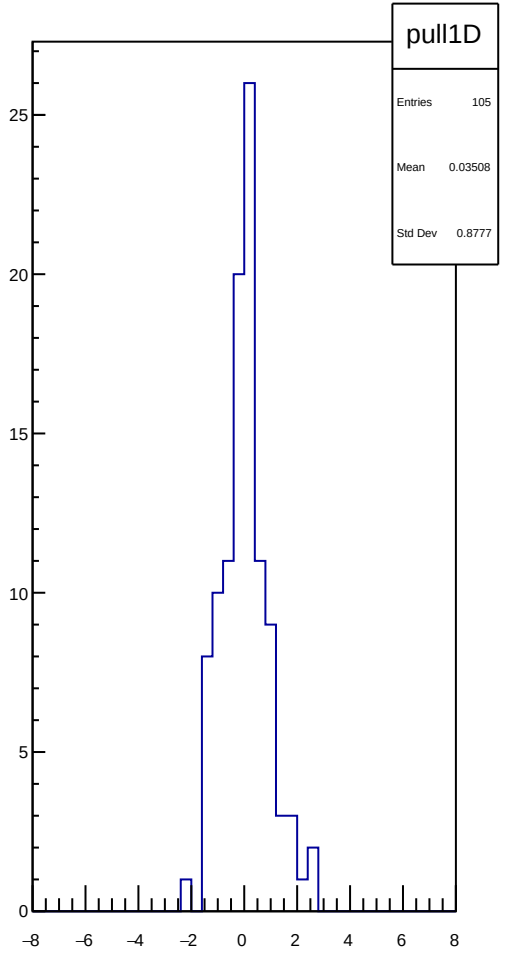

reg_asym_atr1l2_dd_rms vs run
χ² / ndf 1.227e+06 / 104
p0 2039 ± 2.254
25000
20000
15000
10000
5000

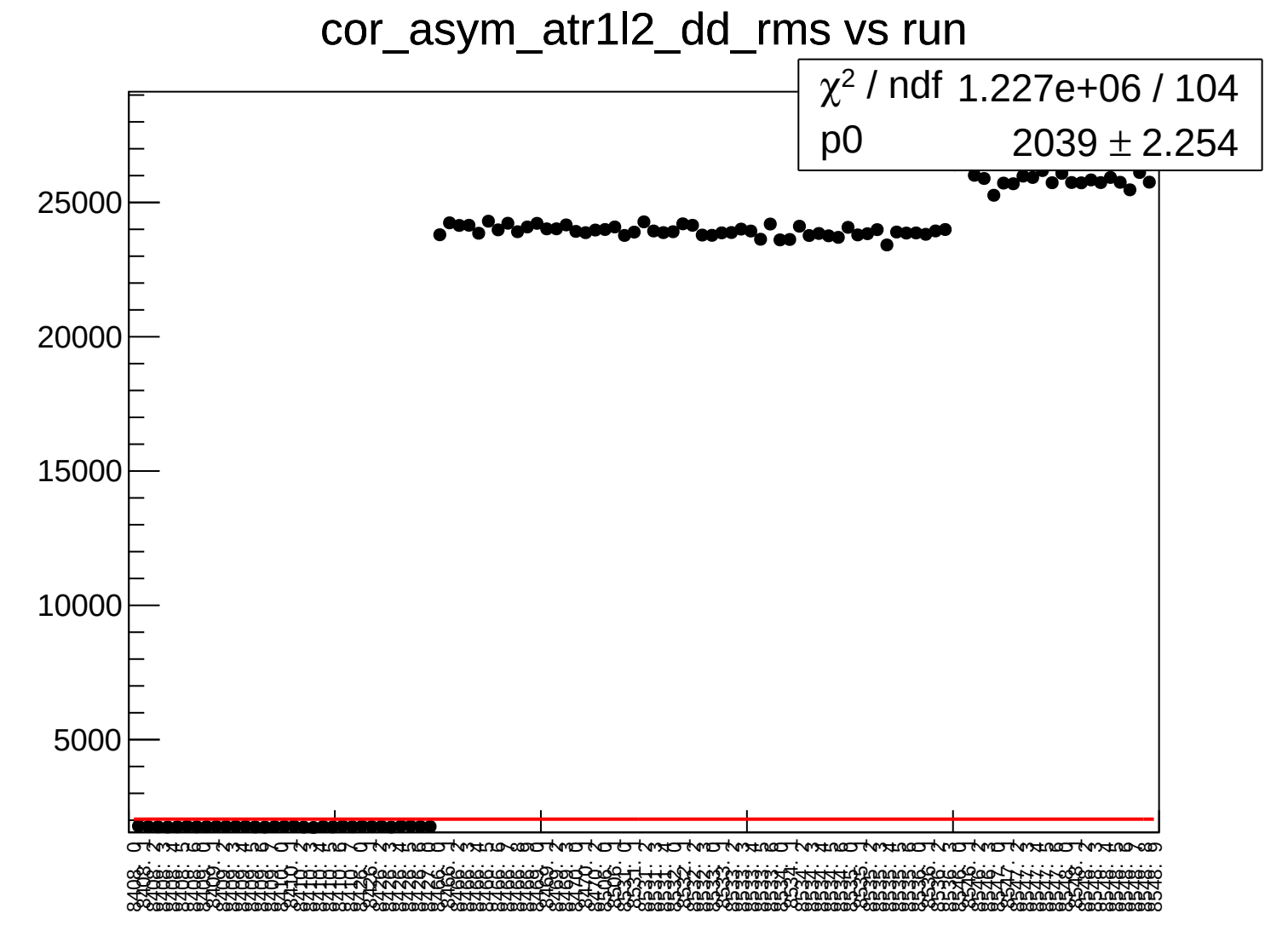

asym_atr1l2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 100.9 / 104
p0 −502.7 ± 1522
150
100
50
0
−50
−100
pull
Entries 105
Mean 24.85
Std Dev 29.17
2
1
0
−1
−2

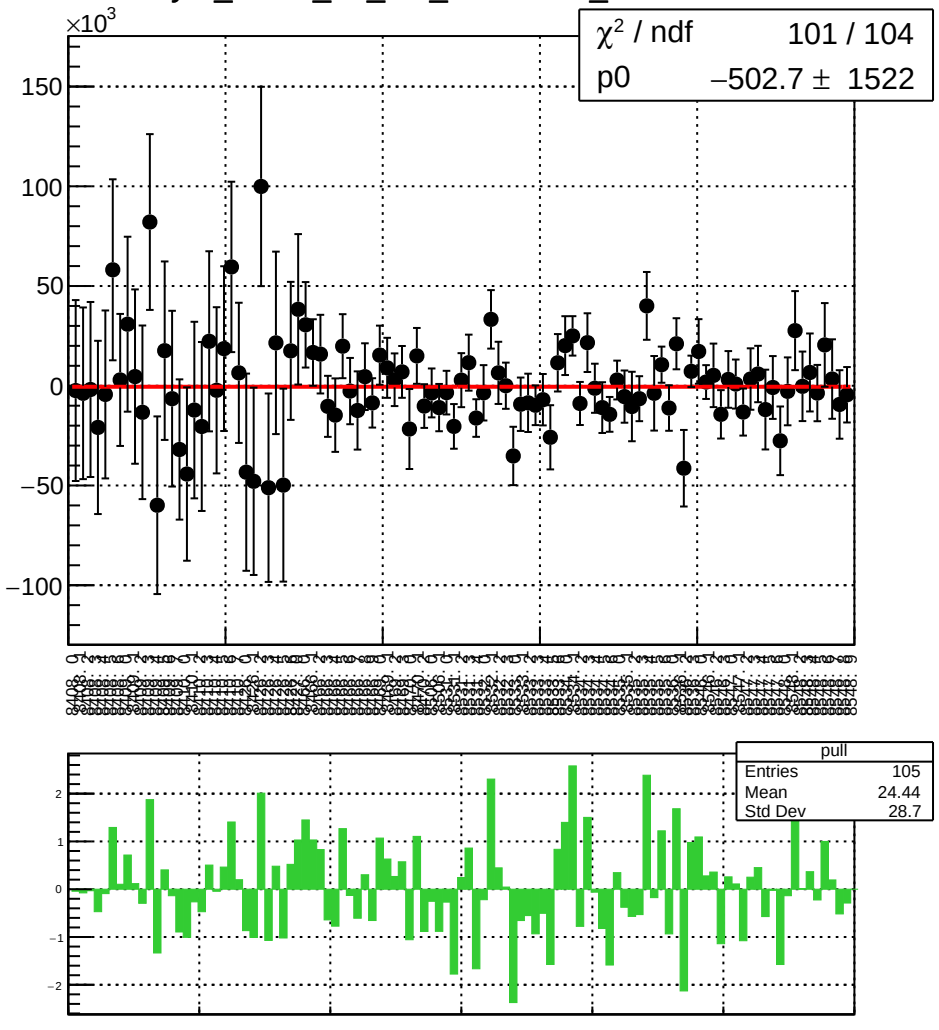

pull1D
Entries 105
Mean 0.03106
Std Dev 0.9799
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

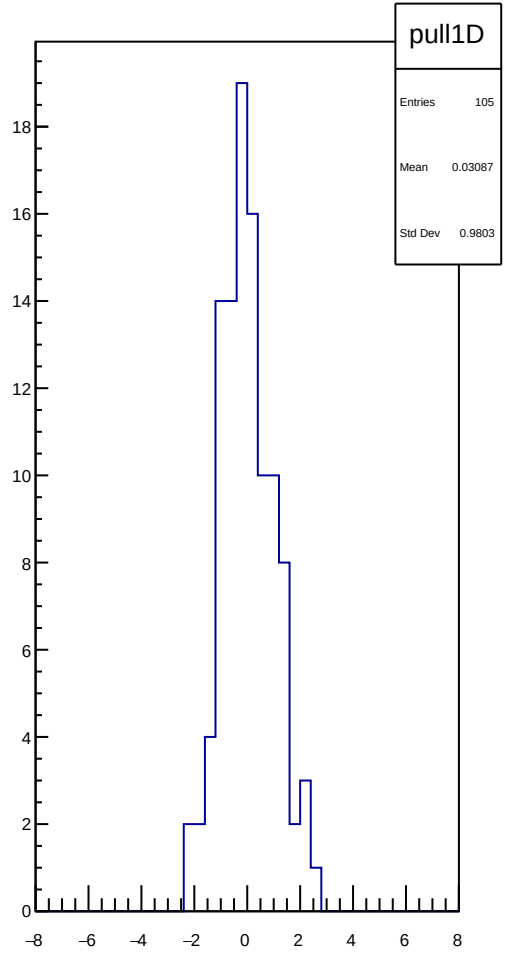

asym_atr1l2_dd_reg_correction_rms vs run
χ² / ndf 3.448e+05 / 104
p0 1403 ± 1.076
5000
4500
4000
3500
3000
2500
2000
1500
1000
500

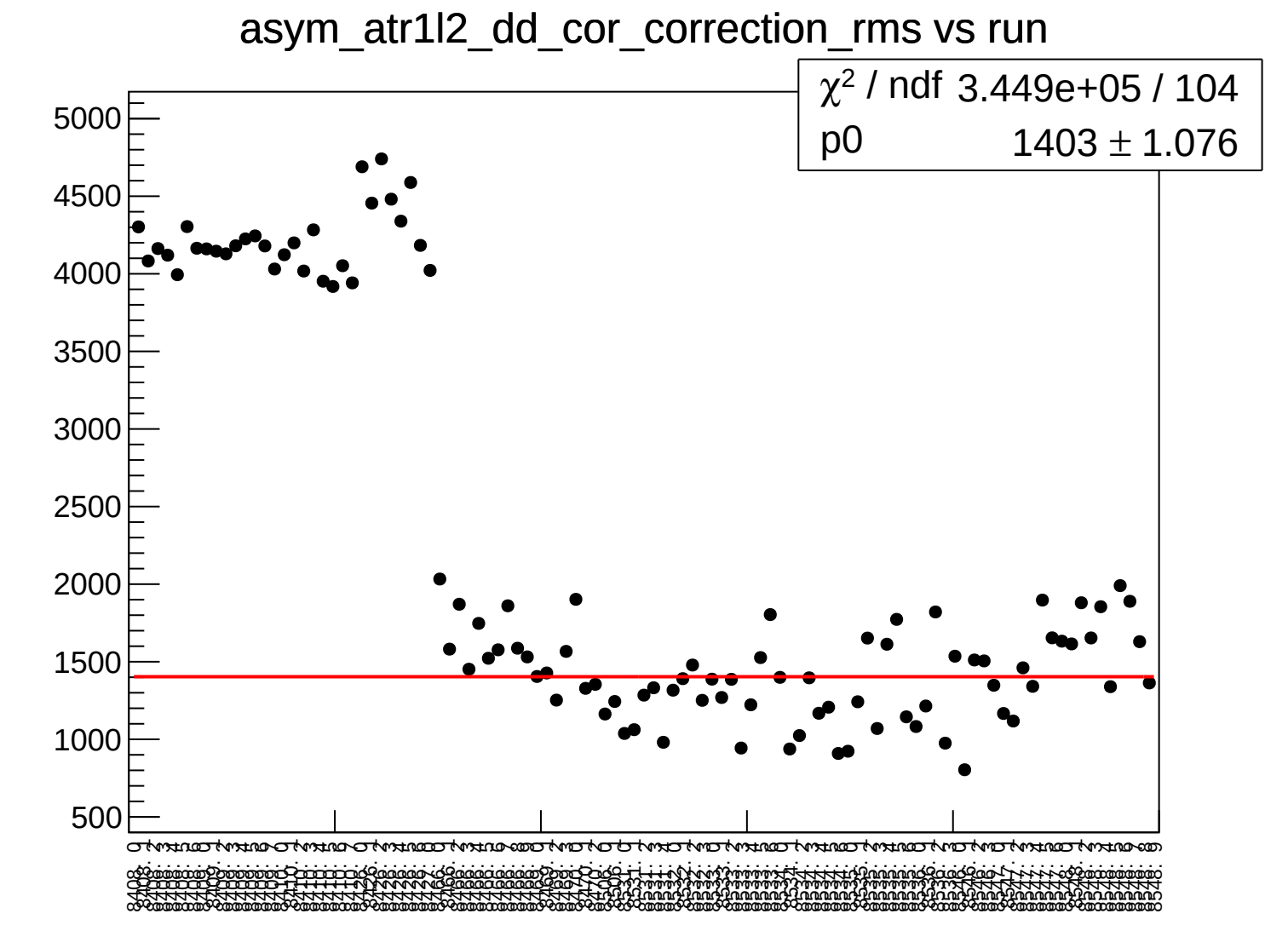

cor_asym_atr1l2_dd_mean vs run
×10^3
χ^2 / ndf 81.02 / 104
p0 436 ± 3187
1000
500
0
−500
−1000
pull
Entries 105
Mean 20.11
Std Dev 0
2
1
0
−1
−2

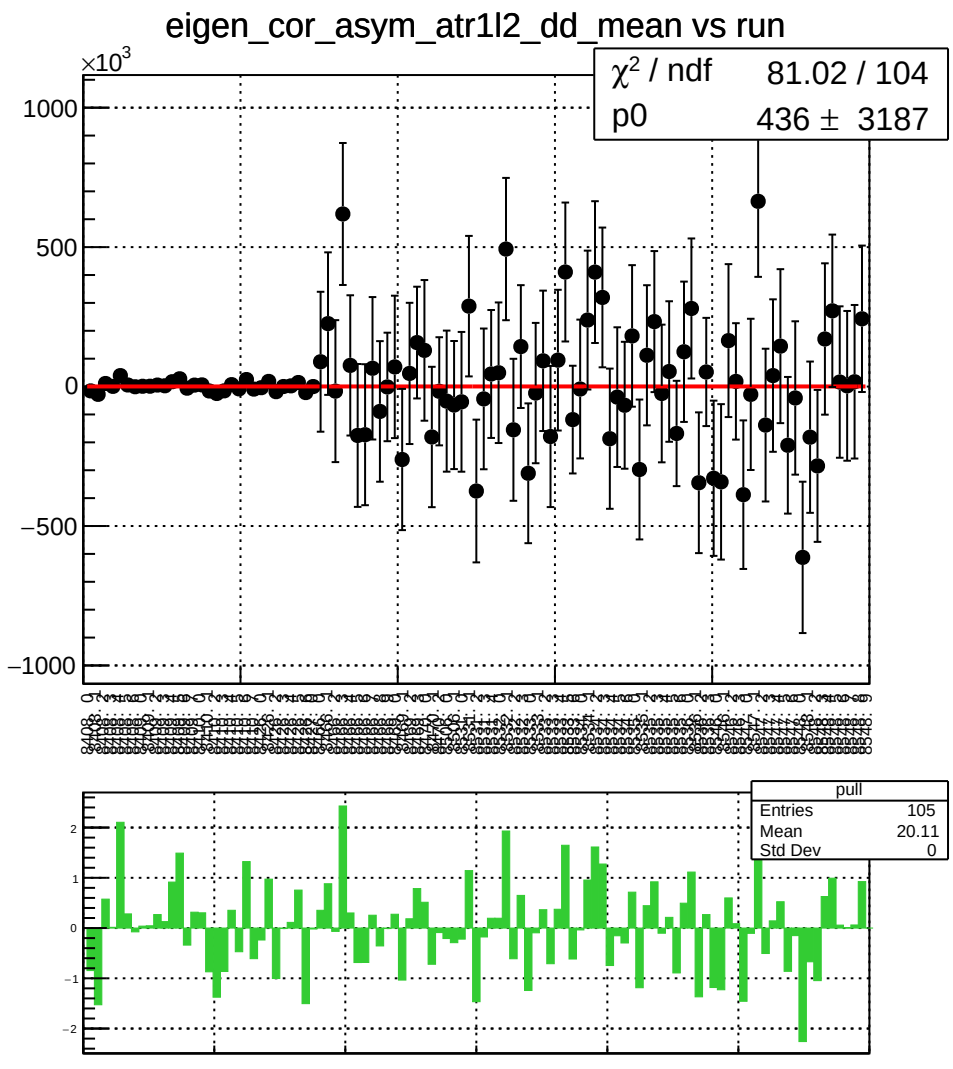

pull1D
Entries 105
Mean 0.03508
Std Dev 0.8777
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

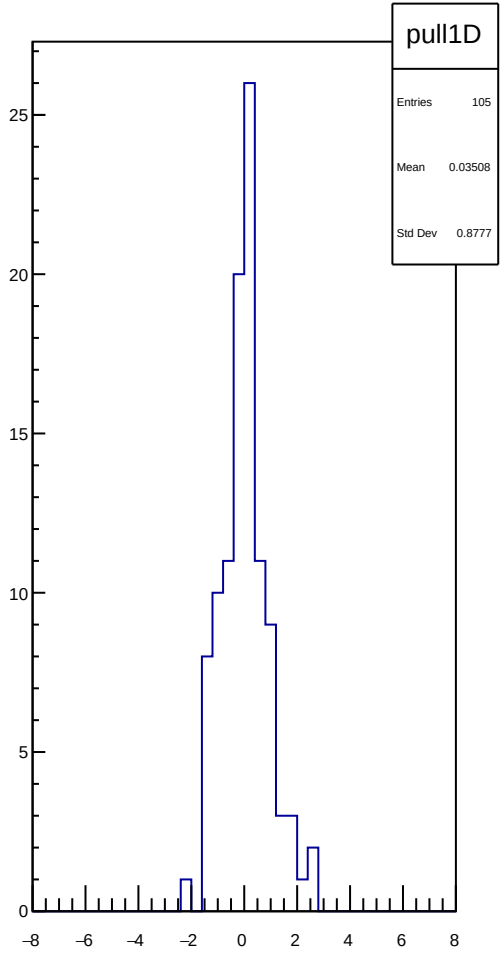

cor_asym_atr1l2_dd_rms vs run
χ² / ndf 1.227e+06 / 104
p0 2039 ± 2.254
25000
20000
15000
10000
5000

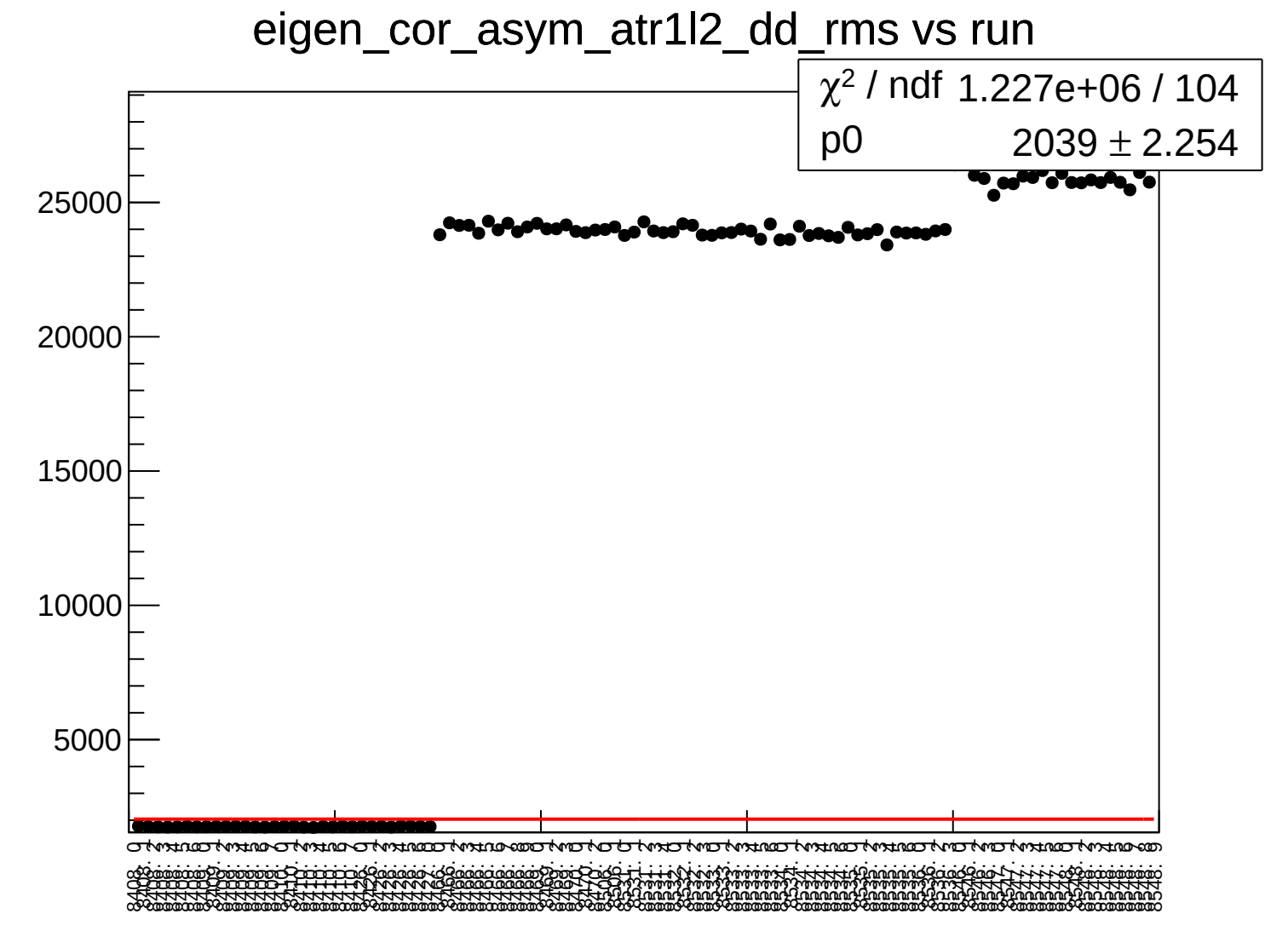

asym_atr1l2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 101 / 104
p0 −502.7 ± 1522
150
100
50
0
−50
−100
pull
Entries 105
Mean 24.44
Std Dev 28.7
2
1
0
−1
−2

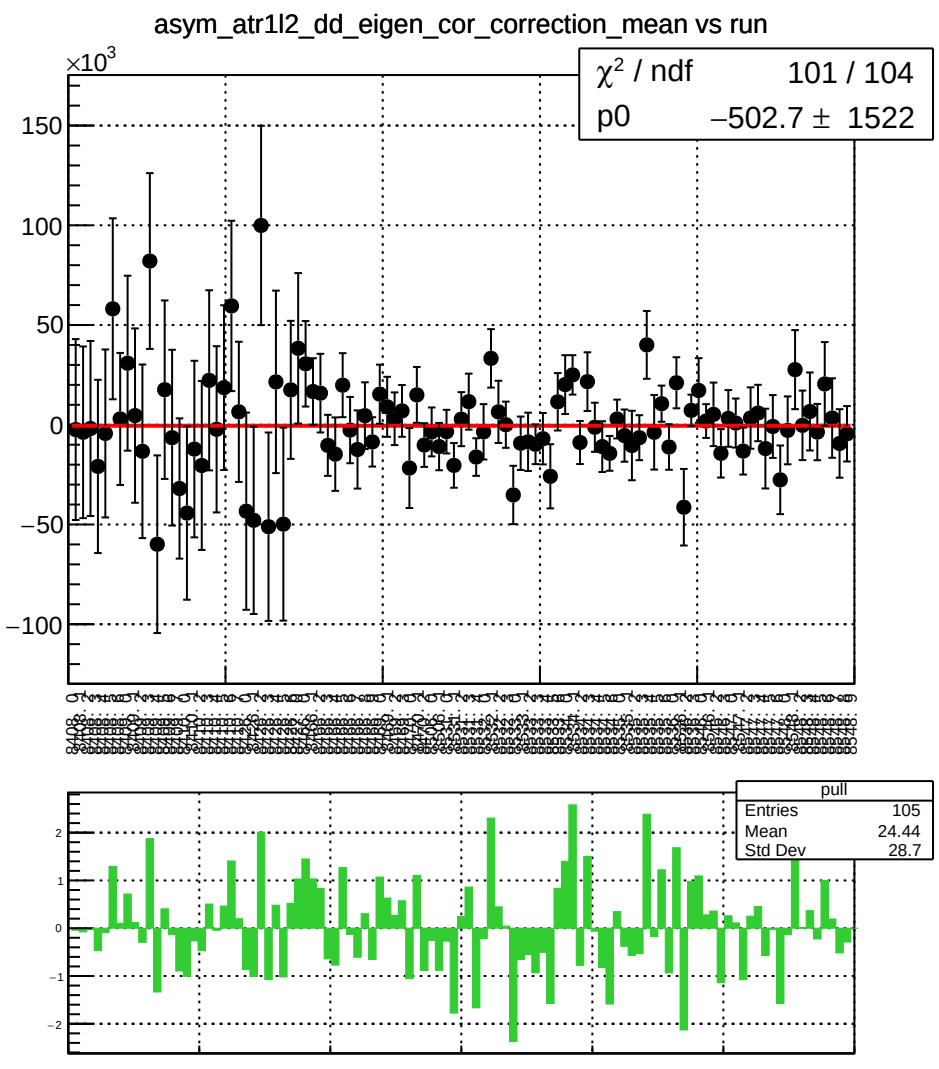

pull1D
Entries 105
Mean 0.03087
Std Dev 0.9803
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

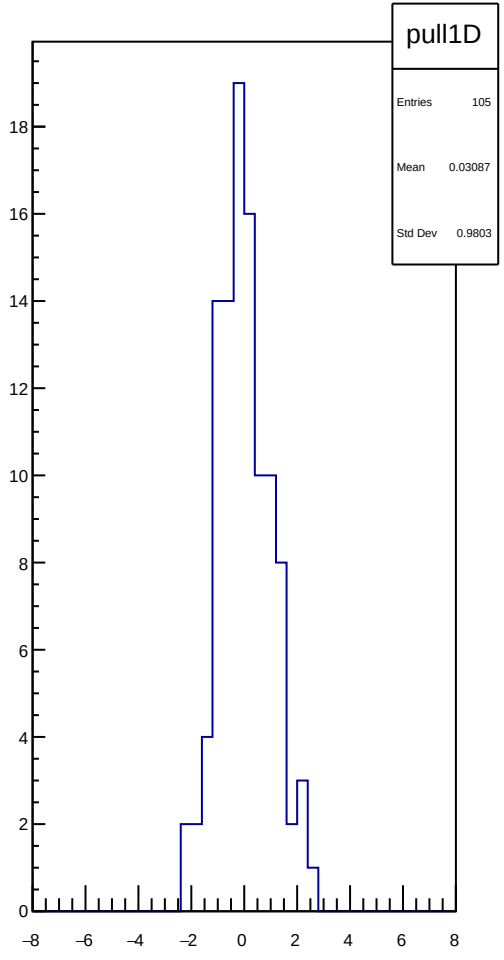

asym_atr1l2_dd_cor_correction_rms vs run
χ² / ndf 3.449e+05 / 104
p0 1403 ± 1.076
5000
4500
4000
3500
3000
2500
2000
1500
1000
500

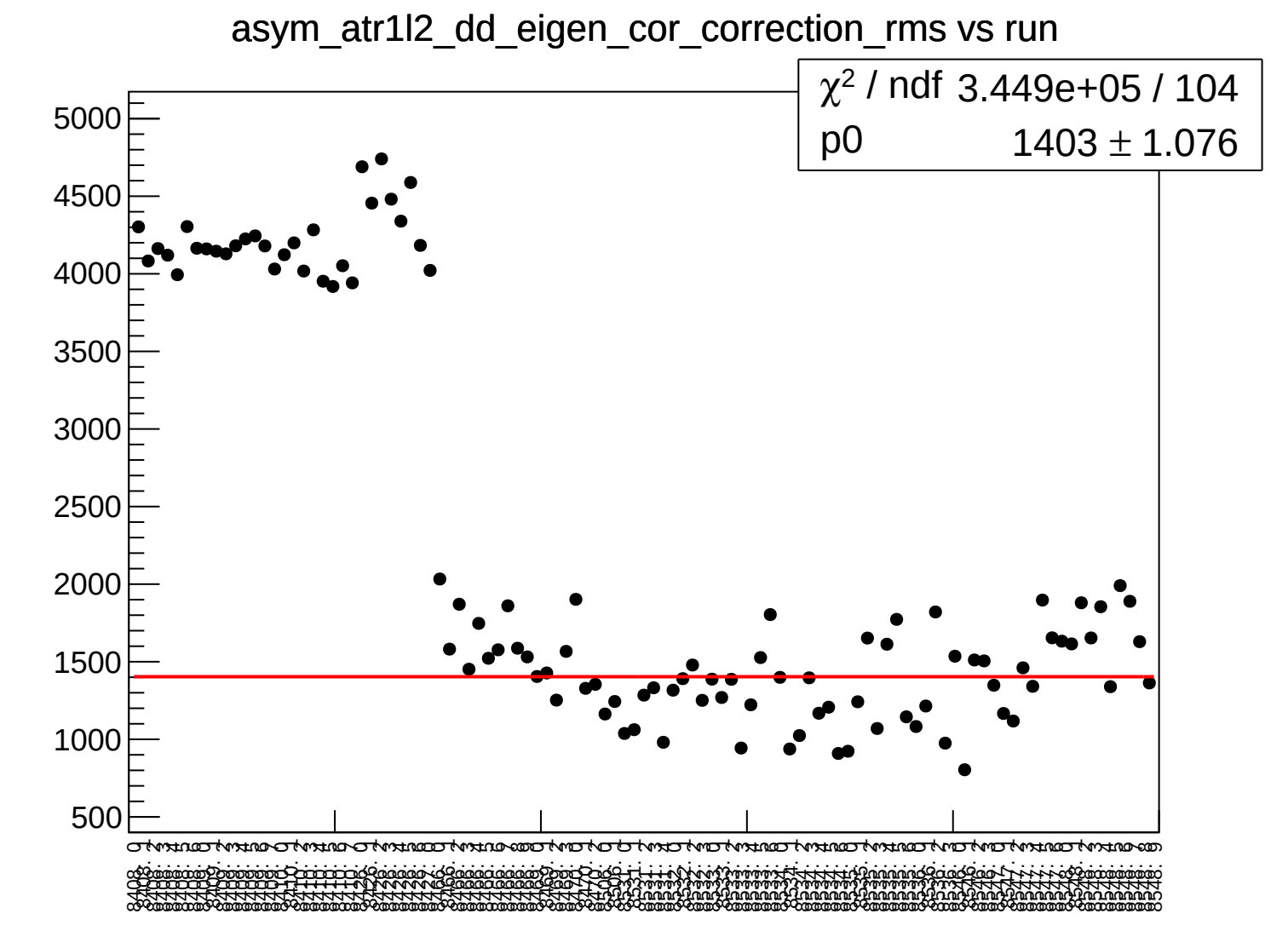

eigen_cor_asym_atr1l2_dd_mean vs run
×10^3
χ^2 / ndf 81.02 / 104
p0 436 ± 3187
1000
500
0
−500
−1000
pull
Entries 105
Mean 20.11
Std Dev 0
2
1
0
−1
−2

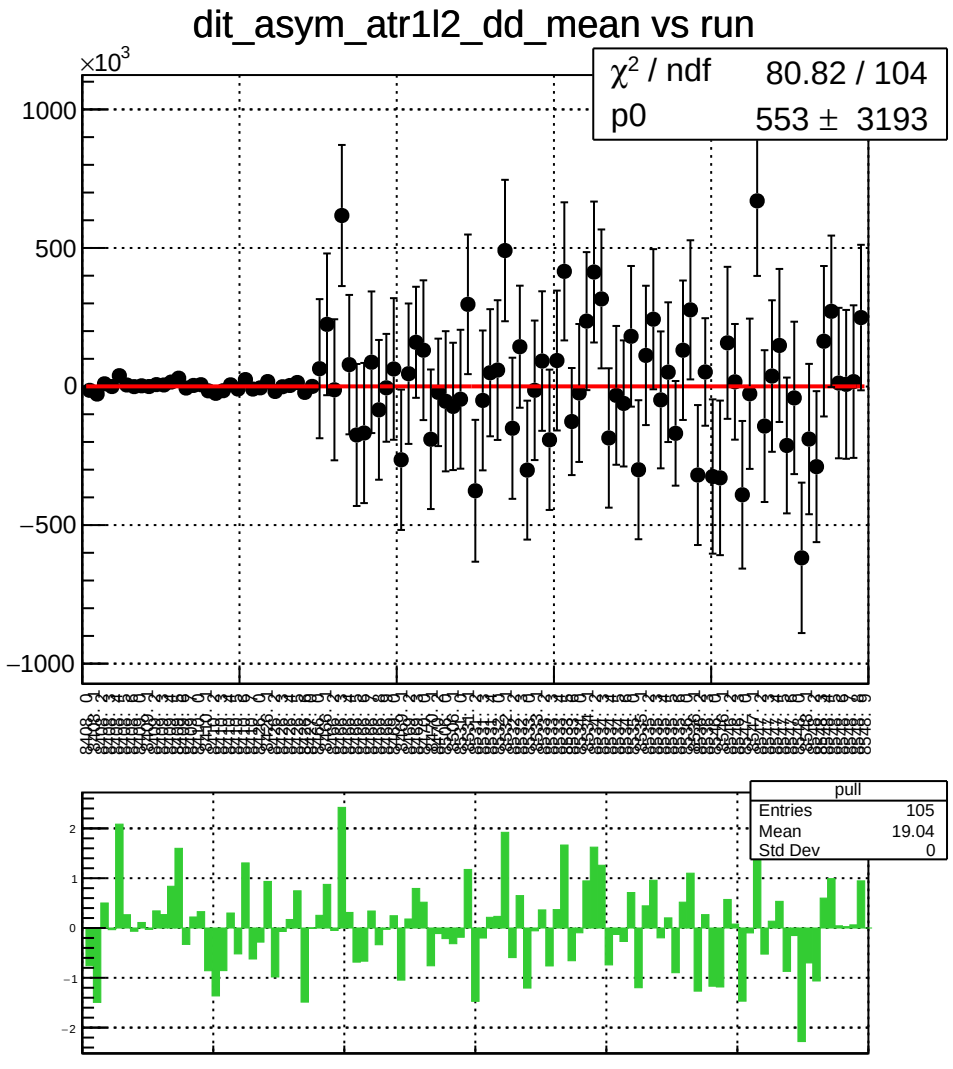

pull1D
Entries 105
Mean 0.03508
Std Dev 0.8777
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

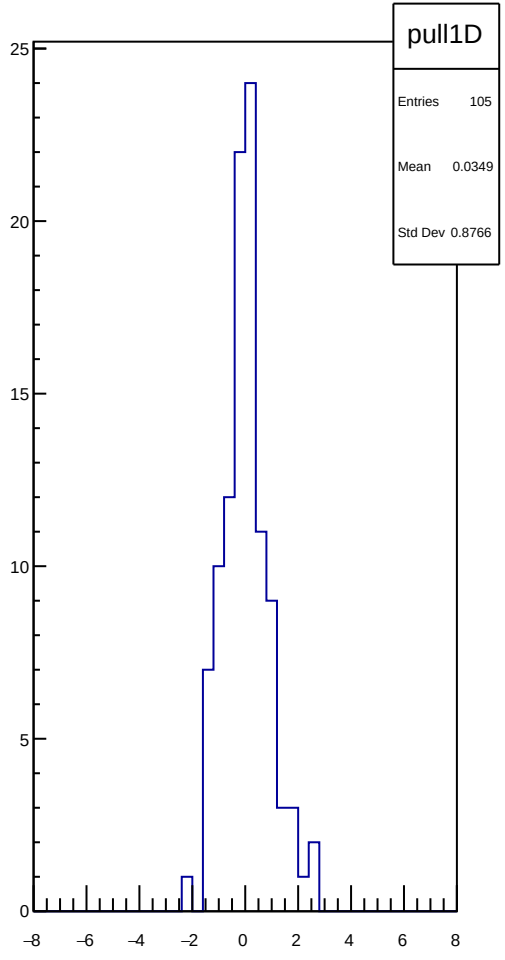

eigen_cor_asym_atr1l2_dd_rms vs run
χ² / ndf 1.227e+06 / 104
p0 2039 ± 2.254
25000
20000
15000
10000
5000

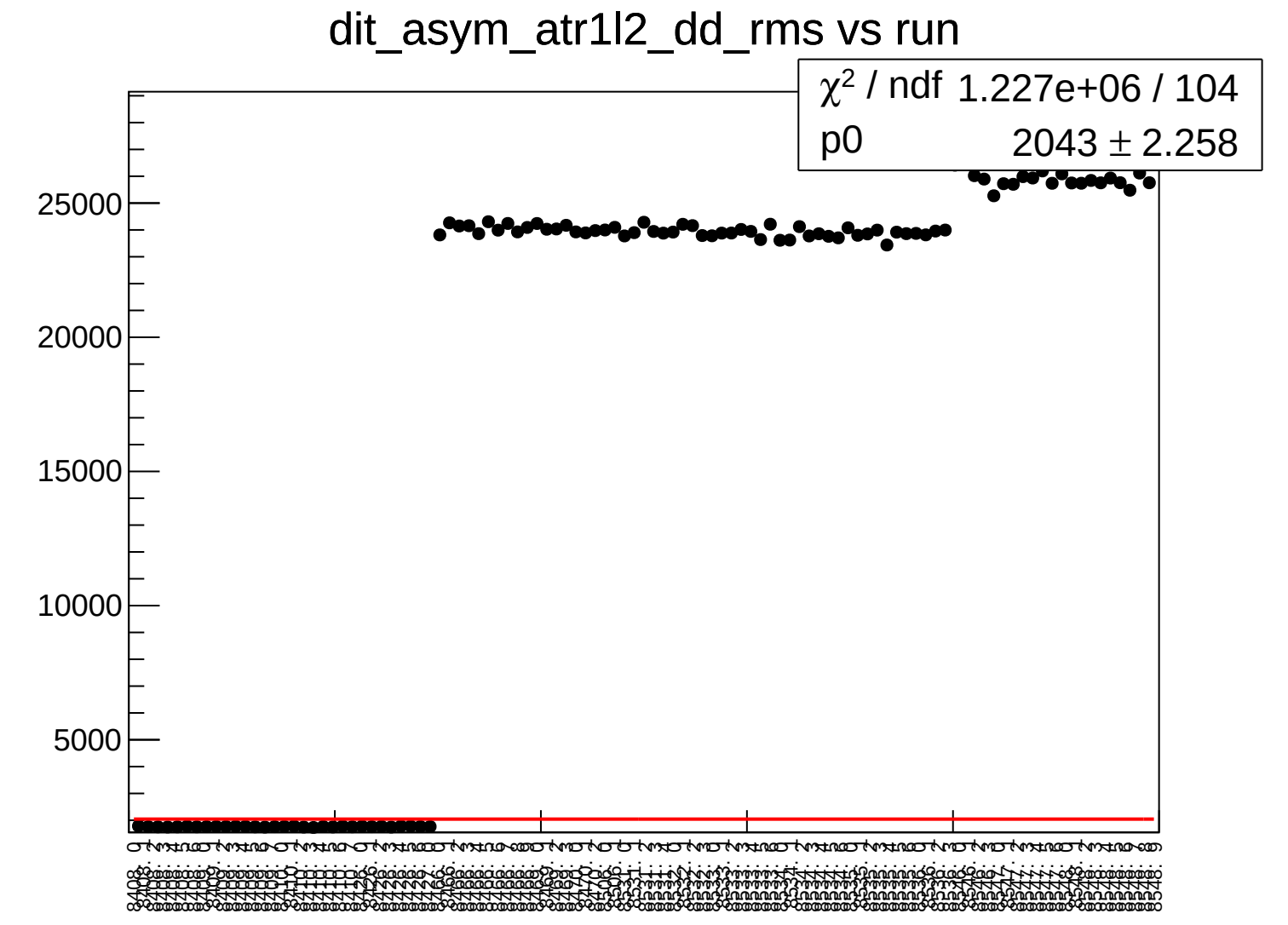

asym_atr1l2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 101 / 104
p0 −502.7 ± 1522
150
100
50
0
−50
−100
pull
Entries 105
Mean 24.44
Std Dev 28.7
2
1
0
−1
−2

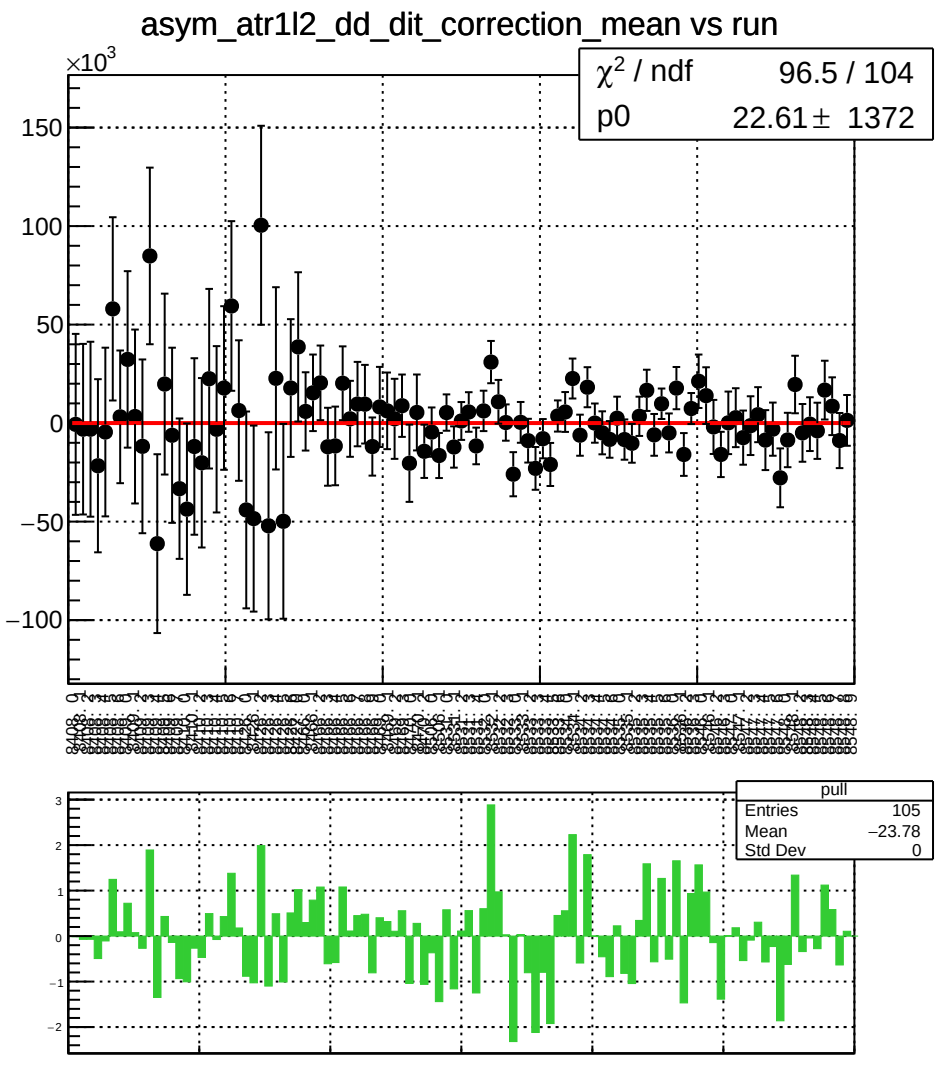

pull1D
Entries 105
Mean 0.03087
Std Dev 0.9803
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

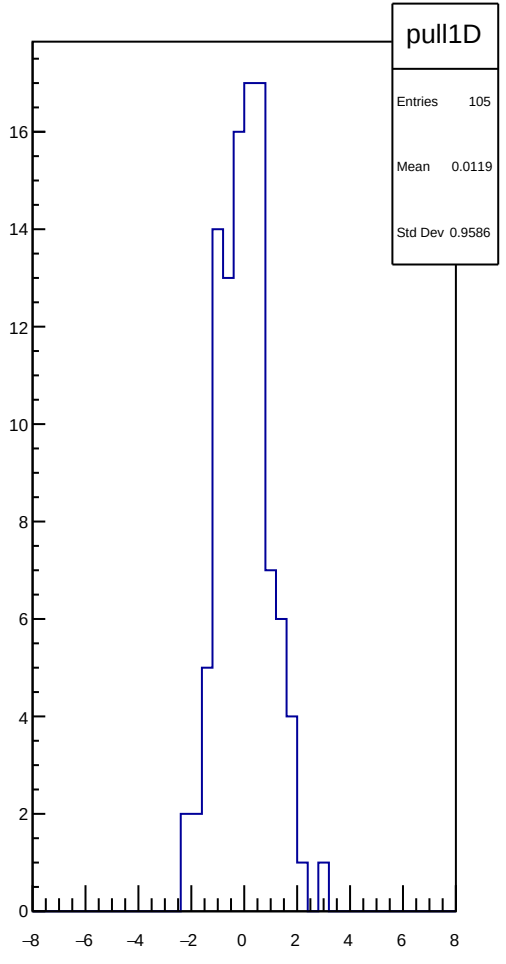

asym_atr1l2_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.449e+05 / 104
p0 1403 ± 1.076
5000
4500
4000
3500
3000
2500
2000
1500
1000
500

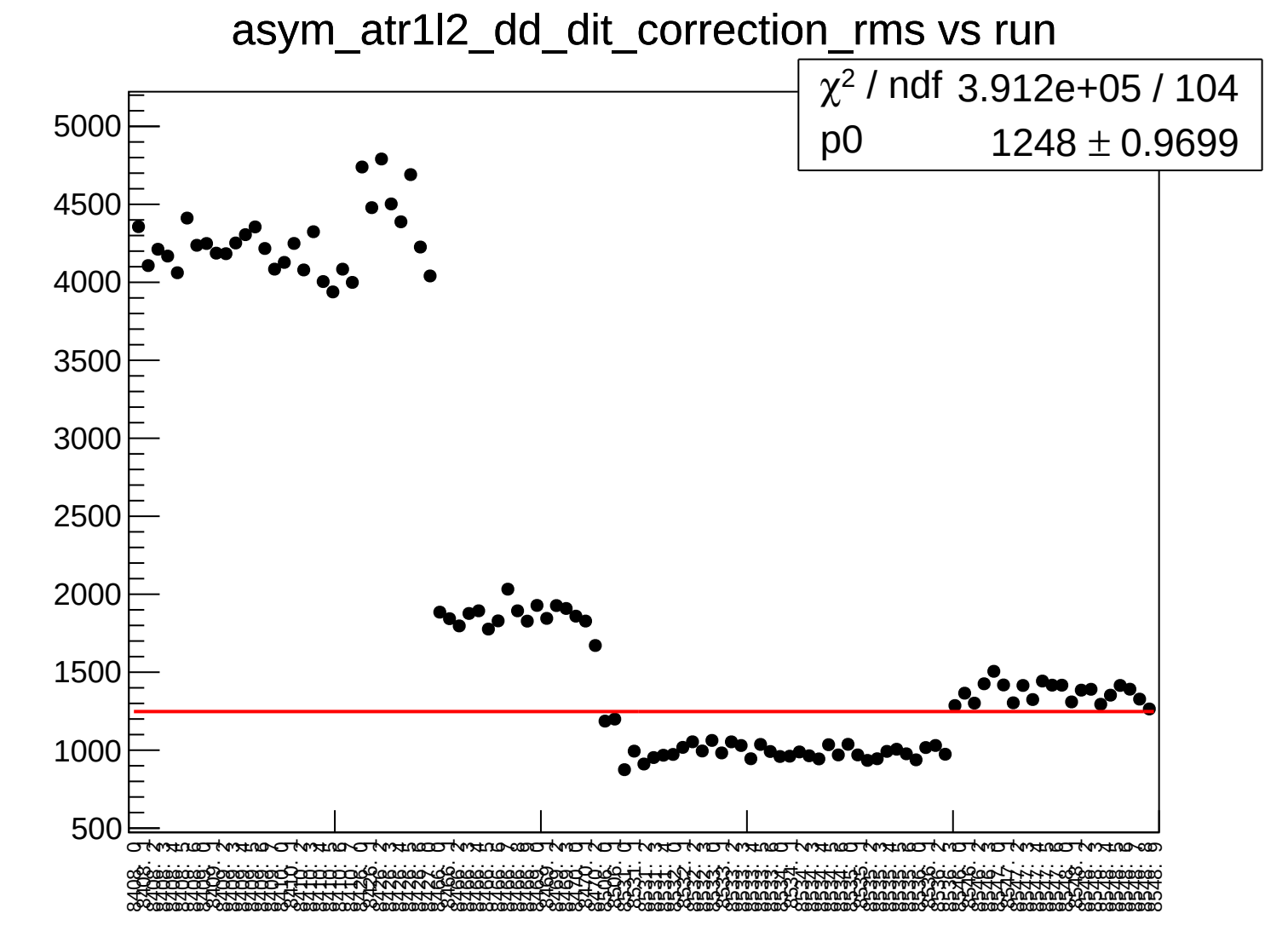

dit_asym_atr1l2_dd_mean vs run
×10^3
χ^2 / ndf 80.82 / 104
p0 553 ± 3193
1000
500
0
−500
−1000
pull
Entries 105
Mean 19.04
Std Dev 0
2
1
0
−1
−2

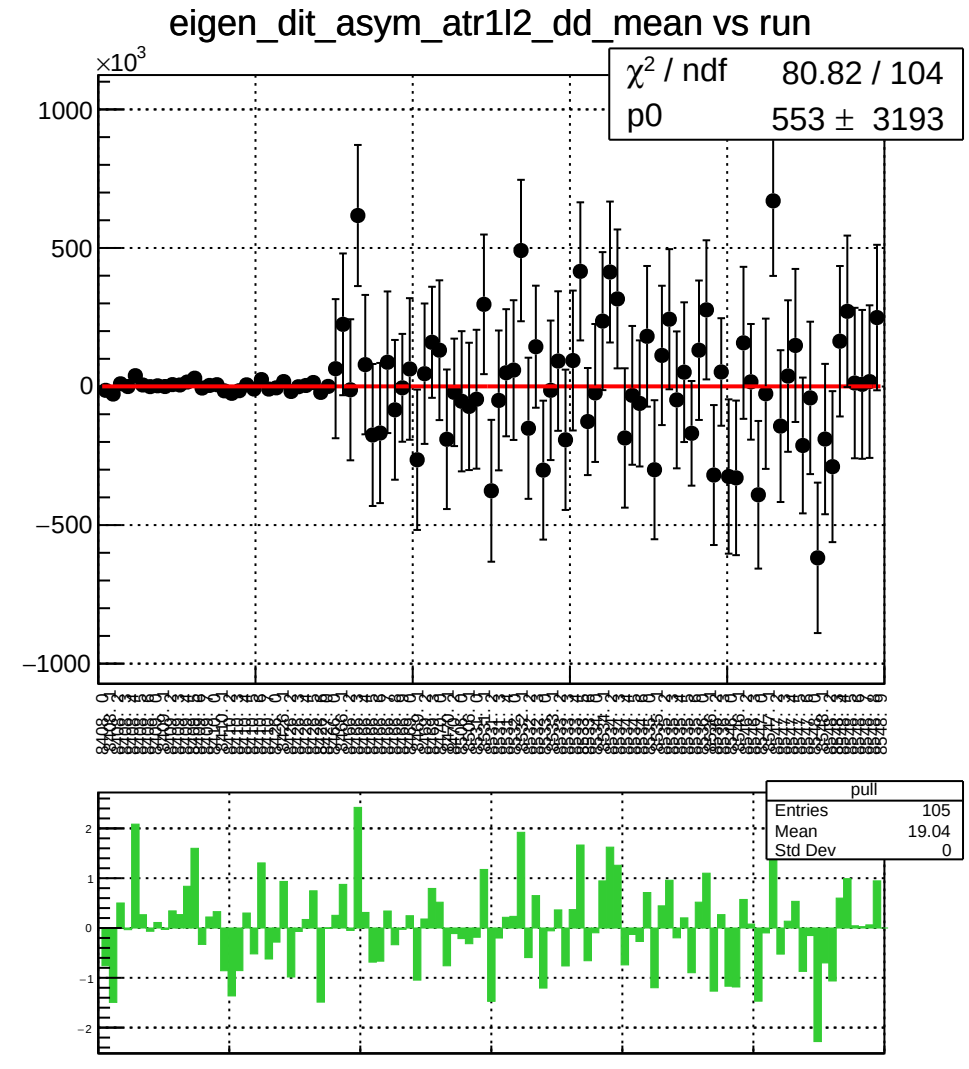

pull1D
Entries 105
Mean 0.0349
Std Dev 0.8766
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

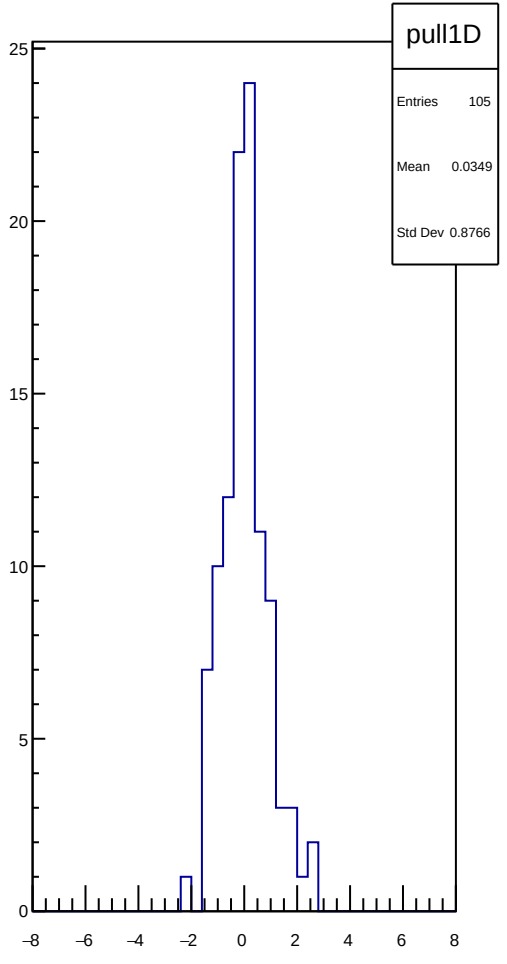

dit_asym_atr1l2_dd_rms vs run
χ² / ndf 1.227e+06 / 104
p0 2043 ± 2.258
25000
20000
15000
10000
5000

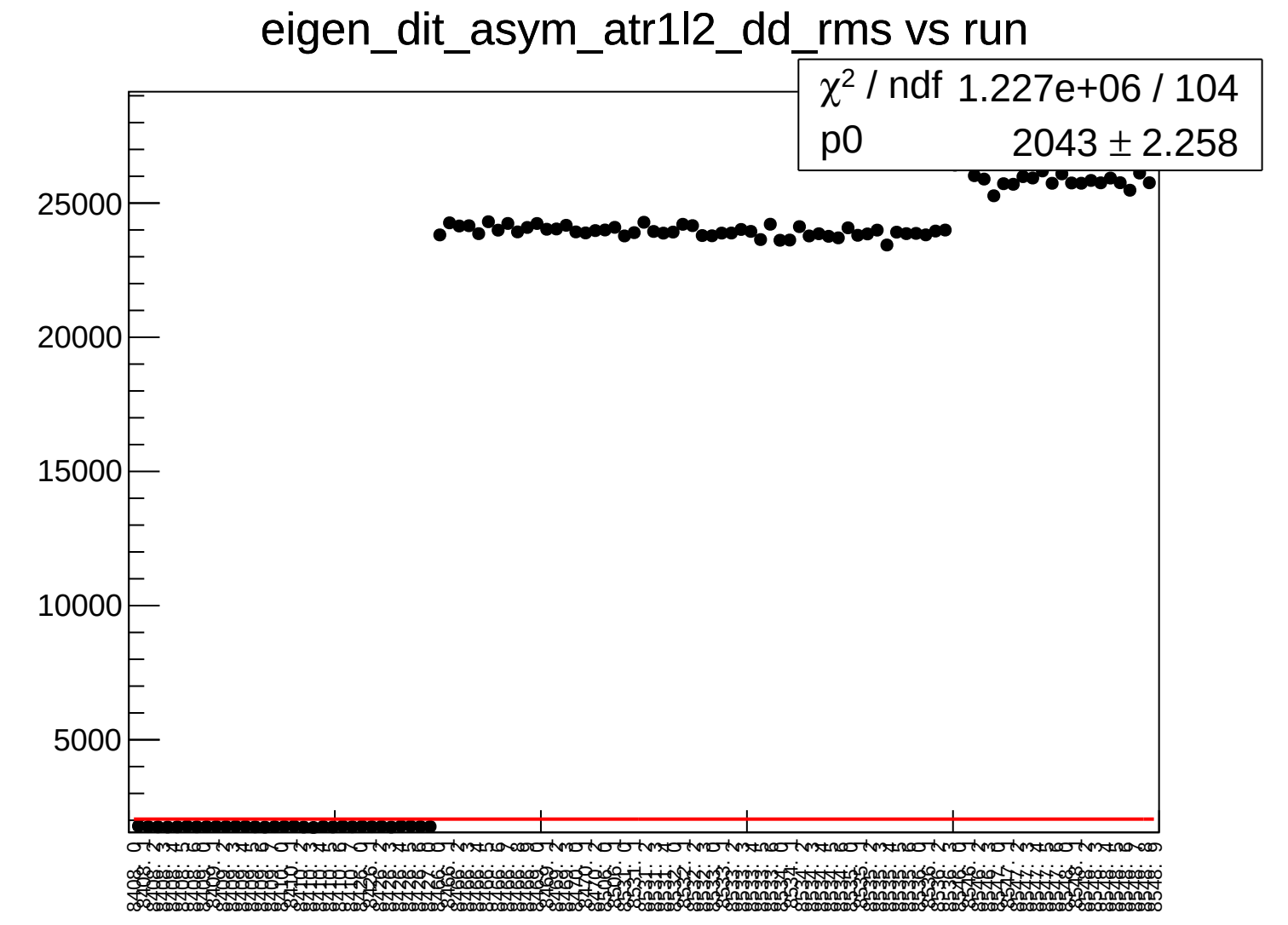

asym_atr1l2_dd_dit_correction_mean vs run
×10^3
χ² / ndf 96.5 / 104
p0 22.61 ± 1372
150
100
50
0
−50
−100
pull
Entries 105
Mean −23.78
Std Dev 0
3
2
1
0
−1
−2

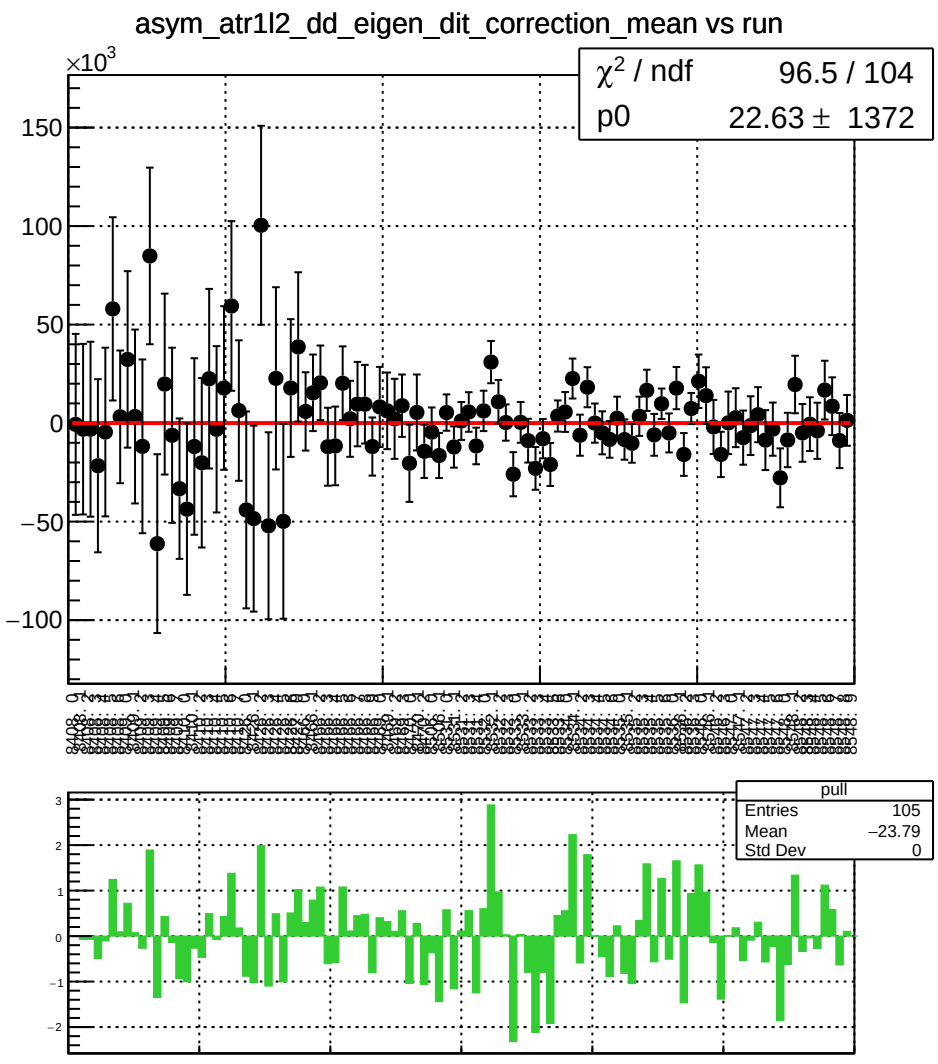

pull1D
Entries 105
Mean 0.0119
Std Dev 0.9586
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

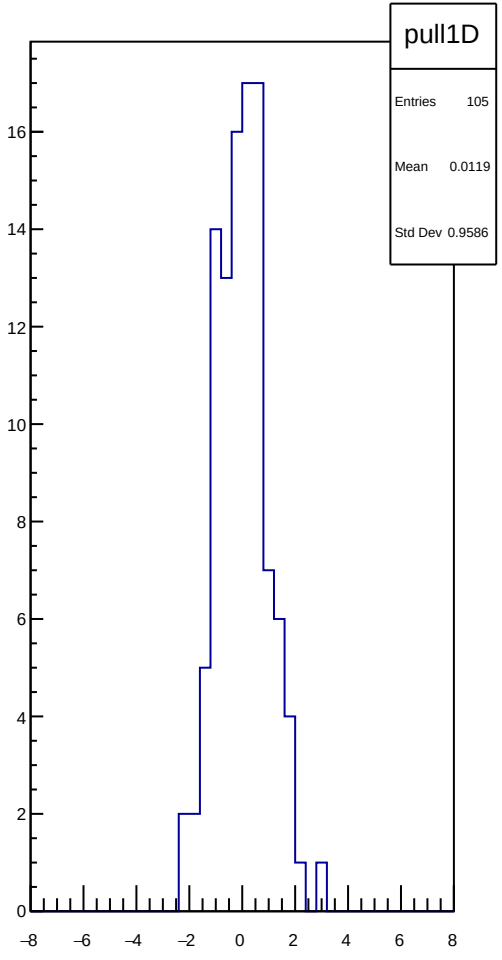

asym_atr1l2_dd_dit_correction_rms vs run
χ^2 / ndf 3.912e+05 / 104
p0 1248 ± 0.9699
5000
4500
4000
3500
3000
2500
2000
1500
1000
500

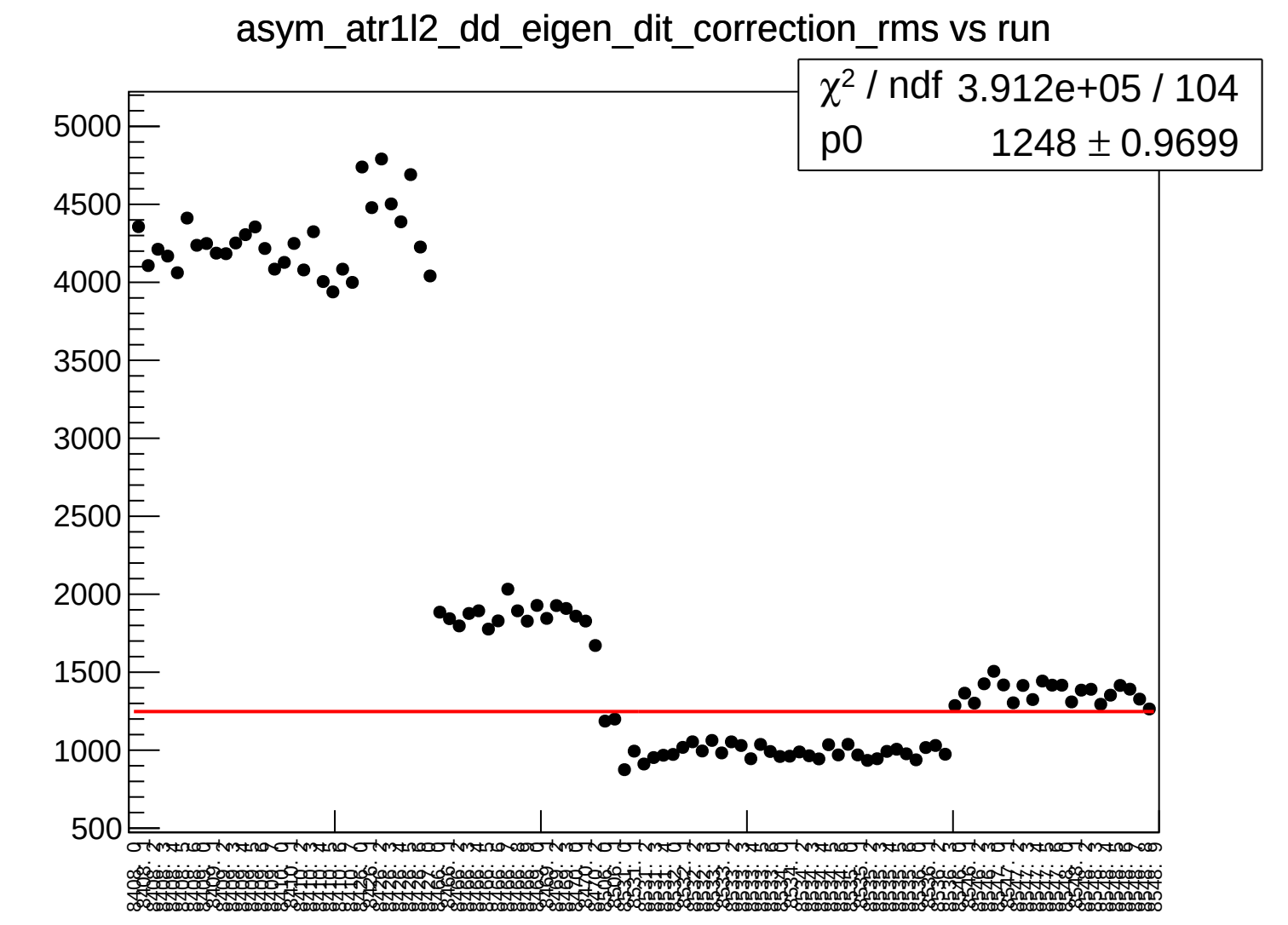

eigen_dit_asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 80.82 / 104
p0 553 ± 3193
1000
500
0
−500
−1000
pull
Entries 105
Mean 19.04
Std Dev 0
2
1
0
−1
−2

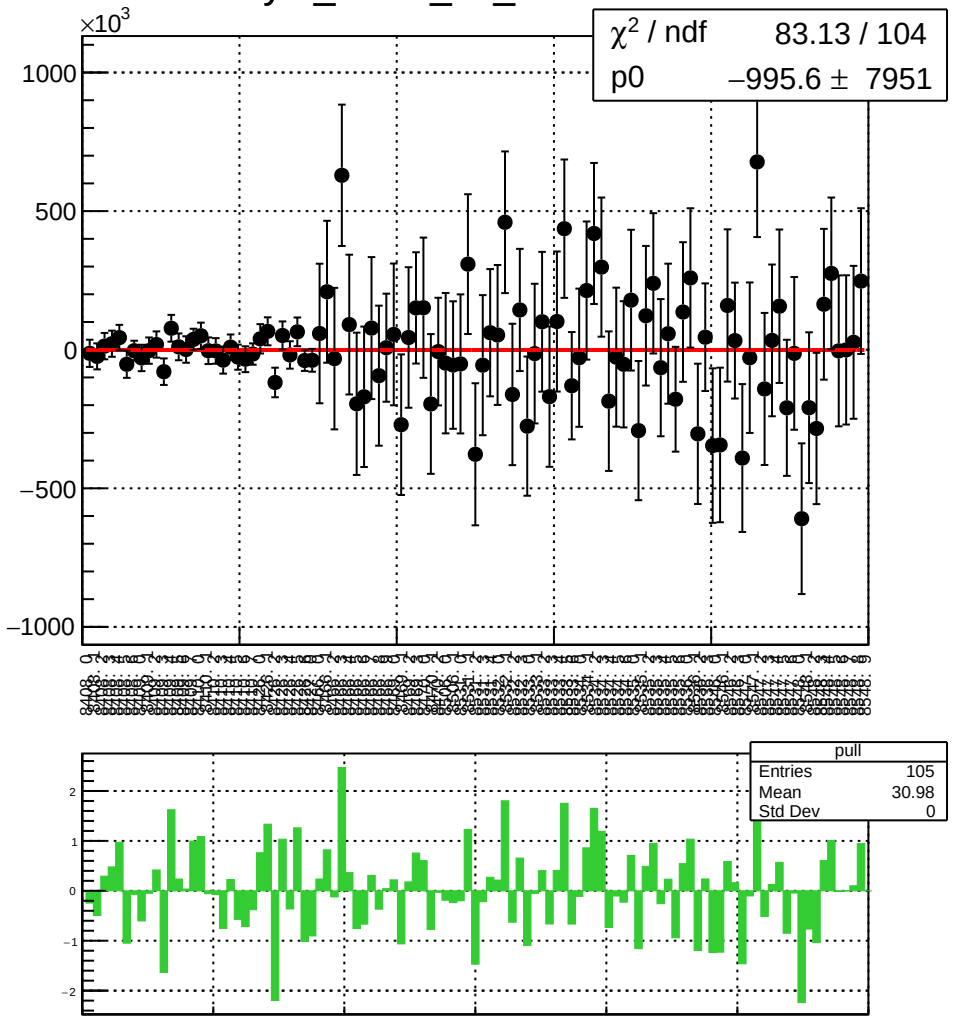

pull1D
Entries 105
Mean 0.0349
Std Dev 0.8766
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

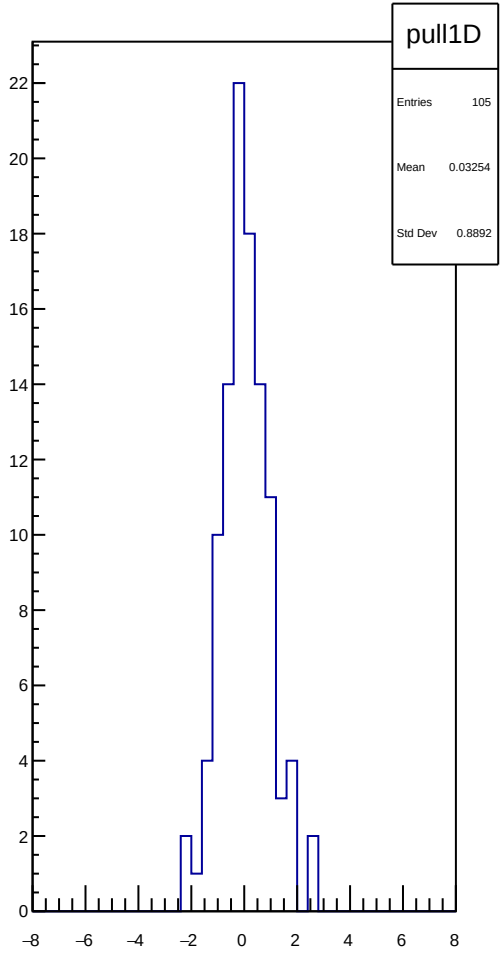

eigen_dit_asym_atr1l2_dd_rms vs run
χ² / ndf 1.227e+06 / 104
p0 2043 ± 2.258
25000
20000
15000
10000
5000

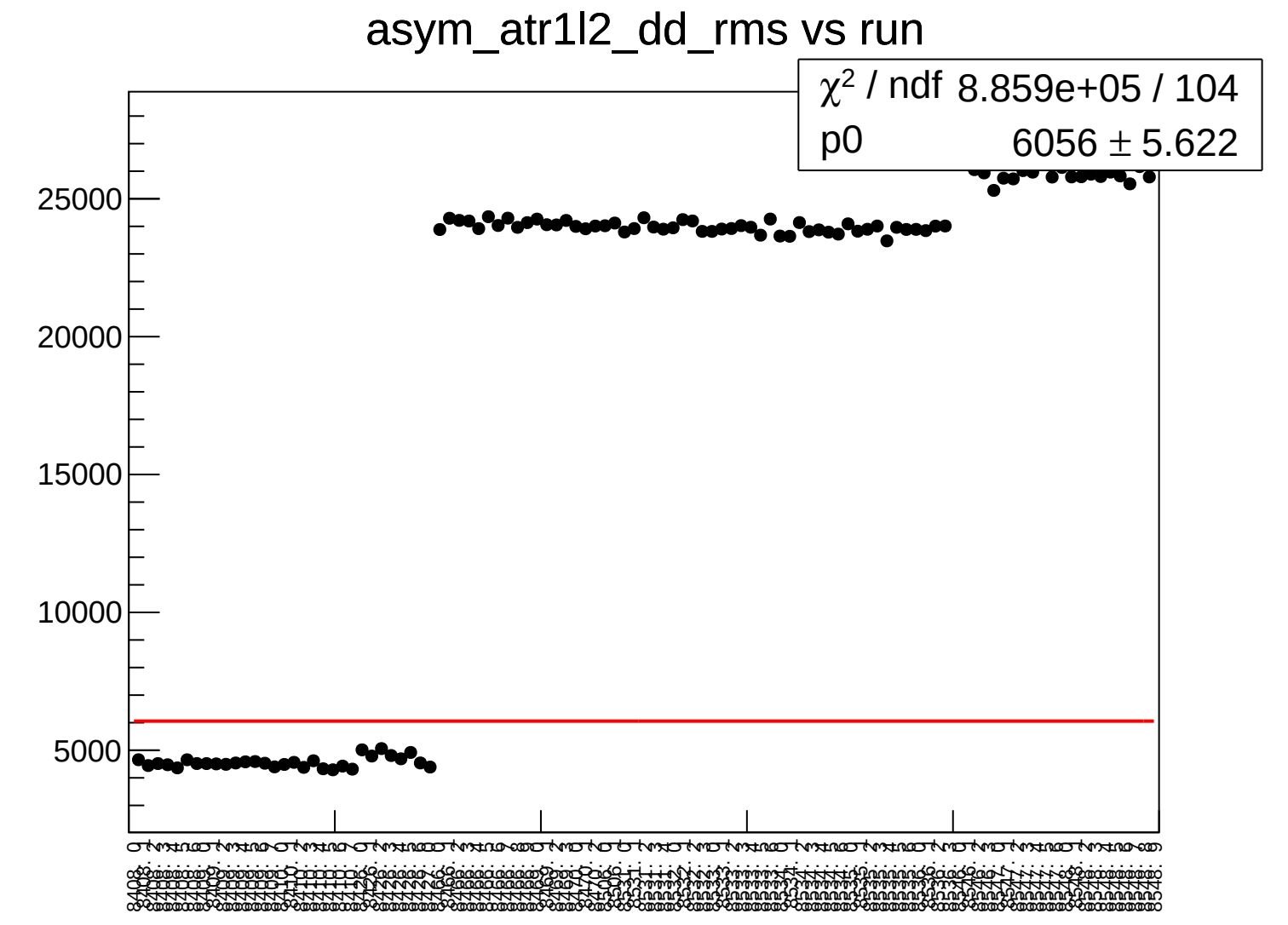

asym_atr1l2_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 96.5 / 104
p0 22.63 ± 1372
150
100
50
0
−50
−100
pull
Entries 105
Mean −23.79
Std Dev 0
3
2
1
0
−1
−2

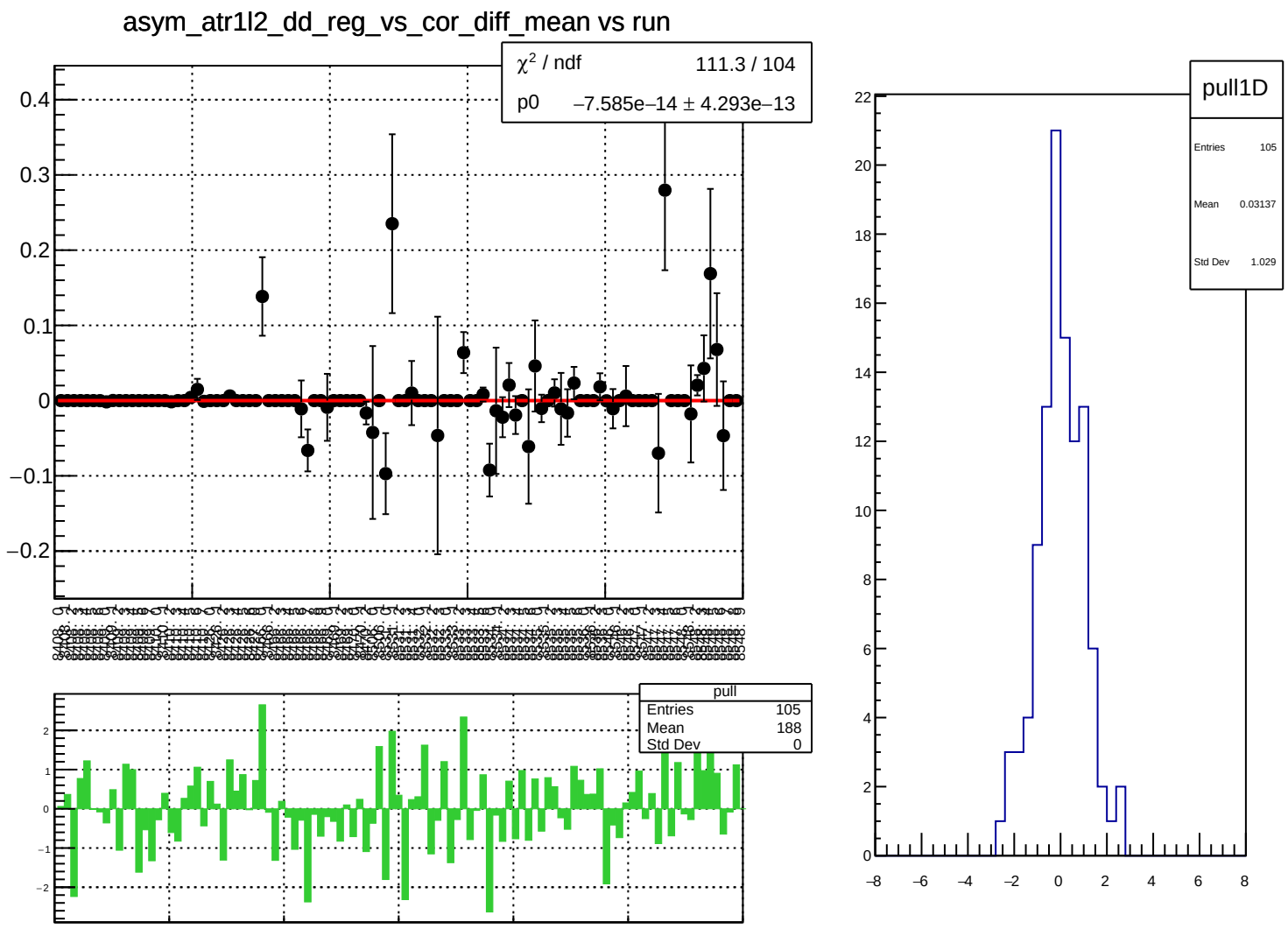

pull1D
Entries 105
Mean 0.0119
Std Dev 0.9586
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

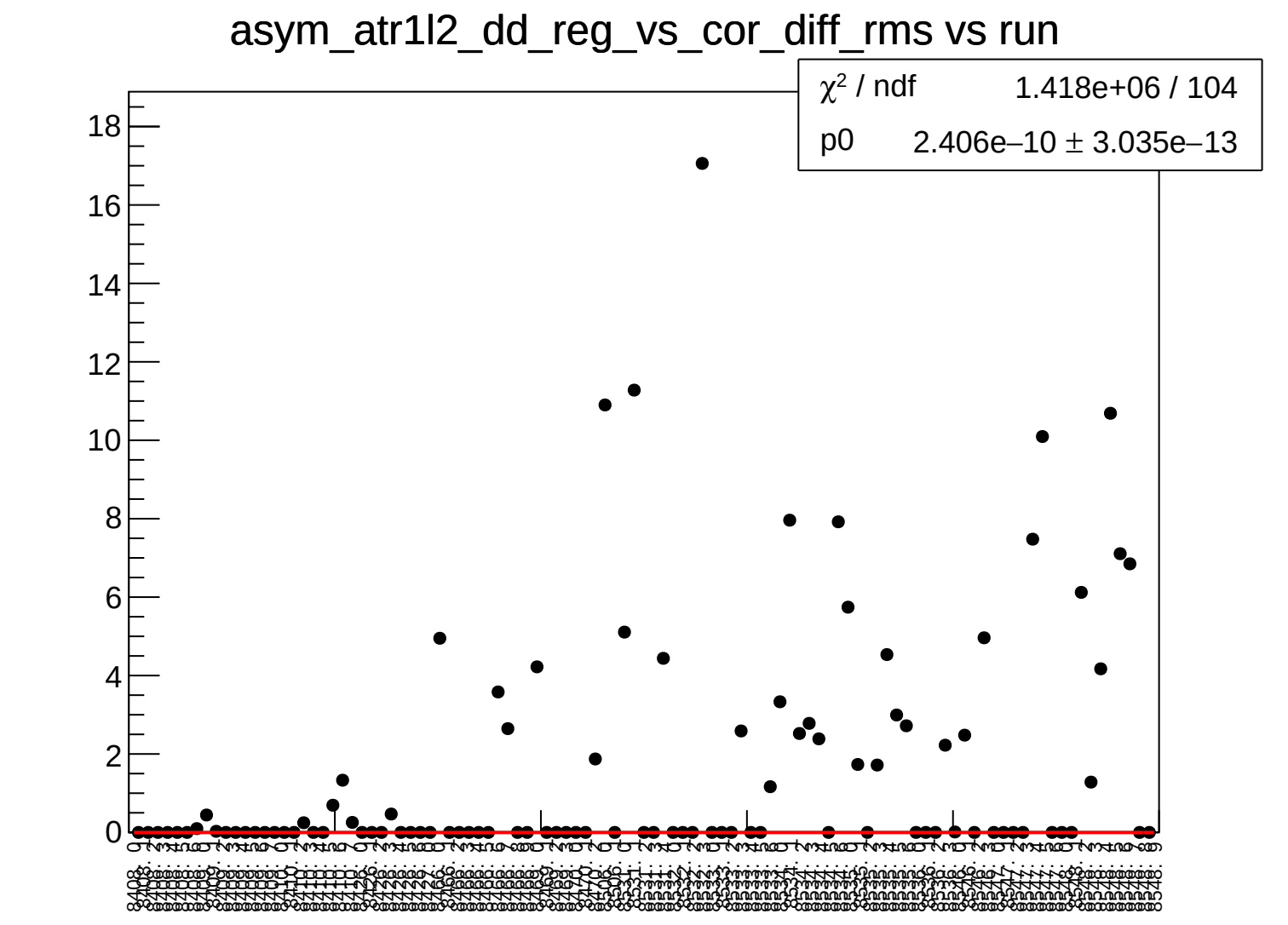

asym_atr1l2_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.912e+05 / 104
p0 1248 ± 0.9699
5000
4500
4000
3500
3000
2500
2000
1500
1000
500

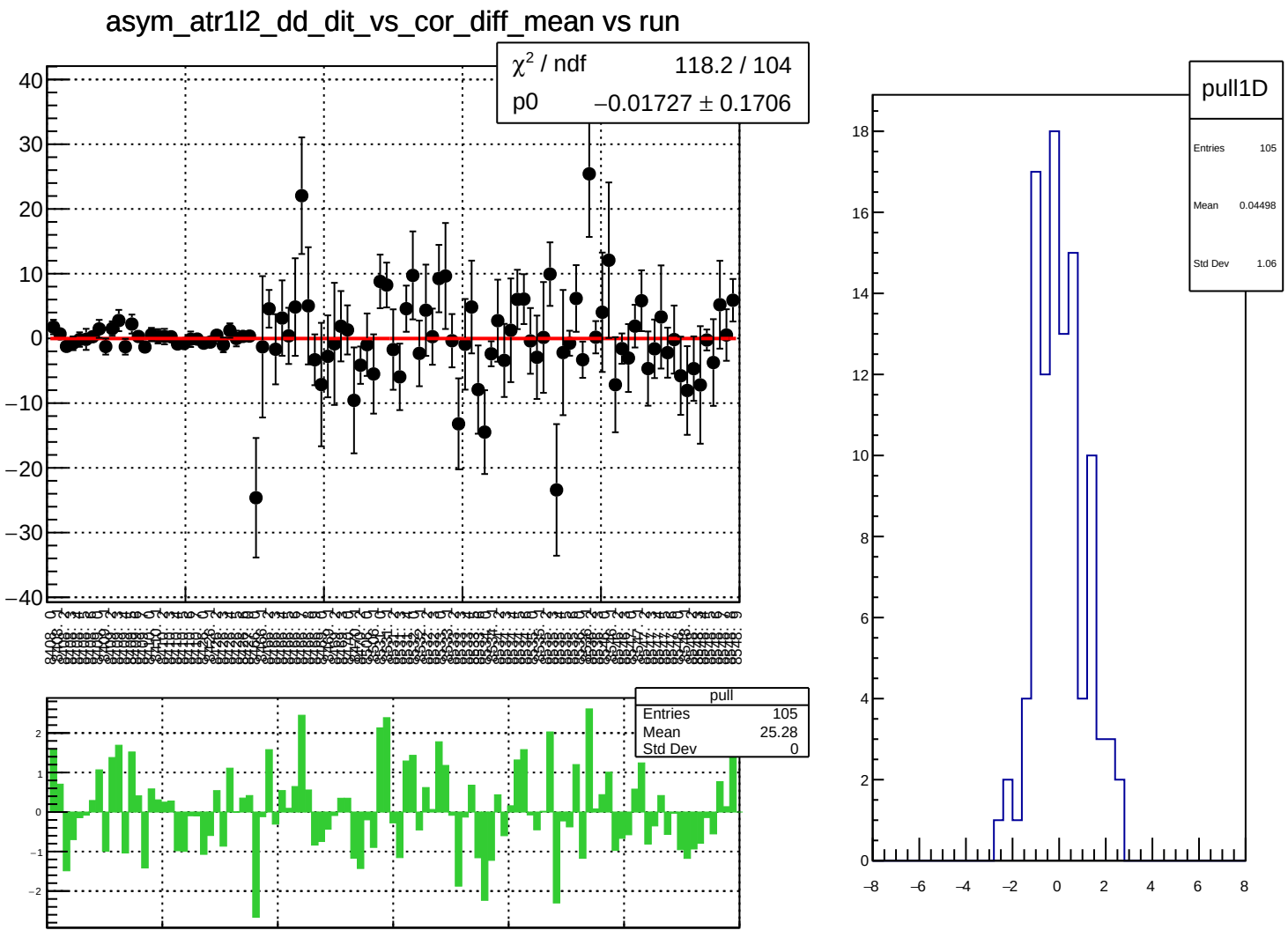

asym_atr1l2_dd_mean vs run
×10^3
χ^2 / ndf 83.13 / 104
p0 −995.6 ± 7951
1000
500
0
−500
−1000
pull
Entries 105
Mean 30.98
Std Dev 0
2
1
0
−1
−2

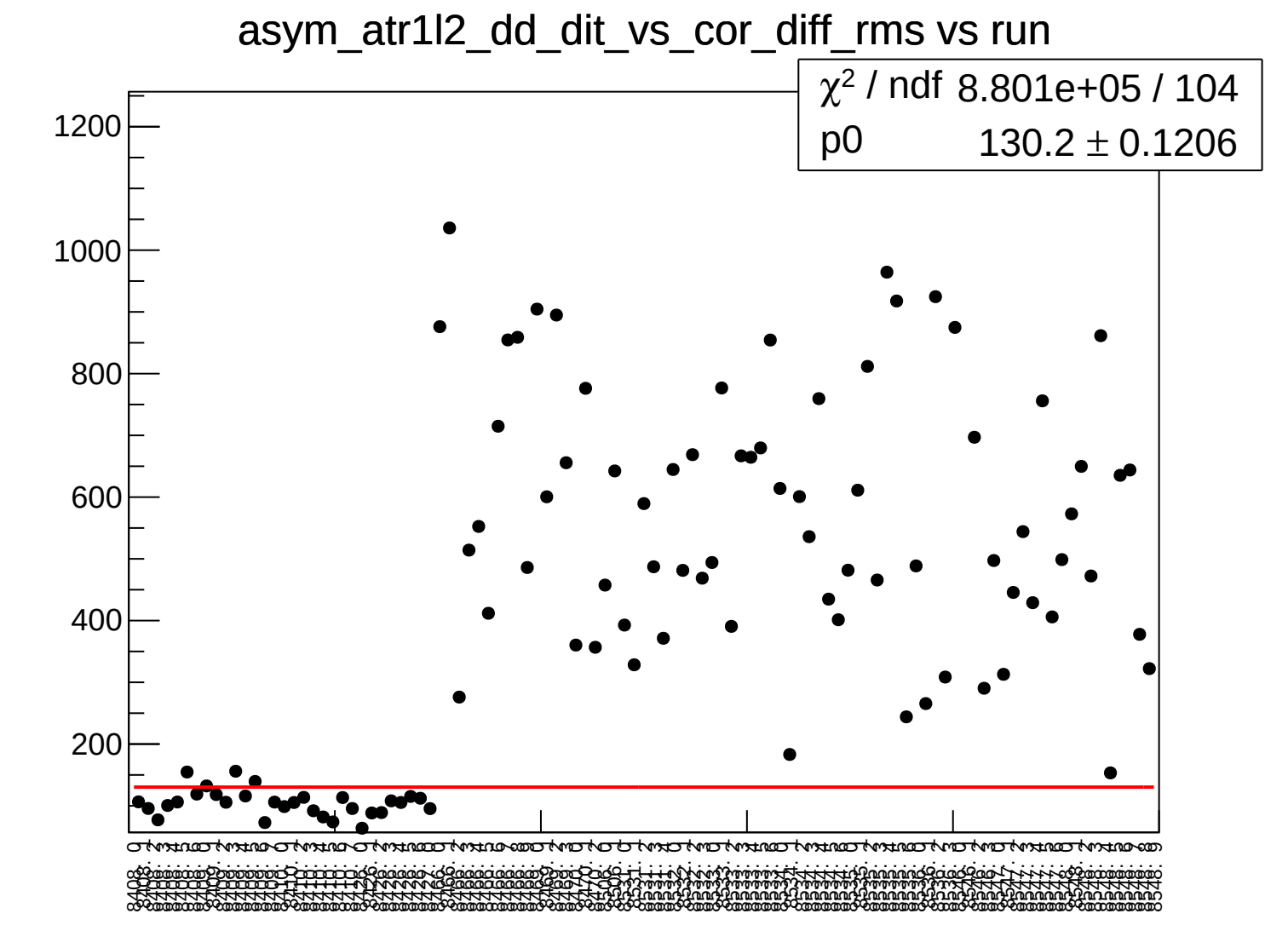

pull1D
Entries 105
Mean 0.03254
Std Dev 0.8892
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

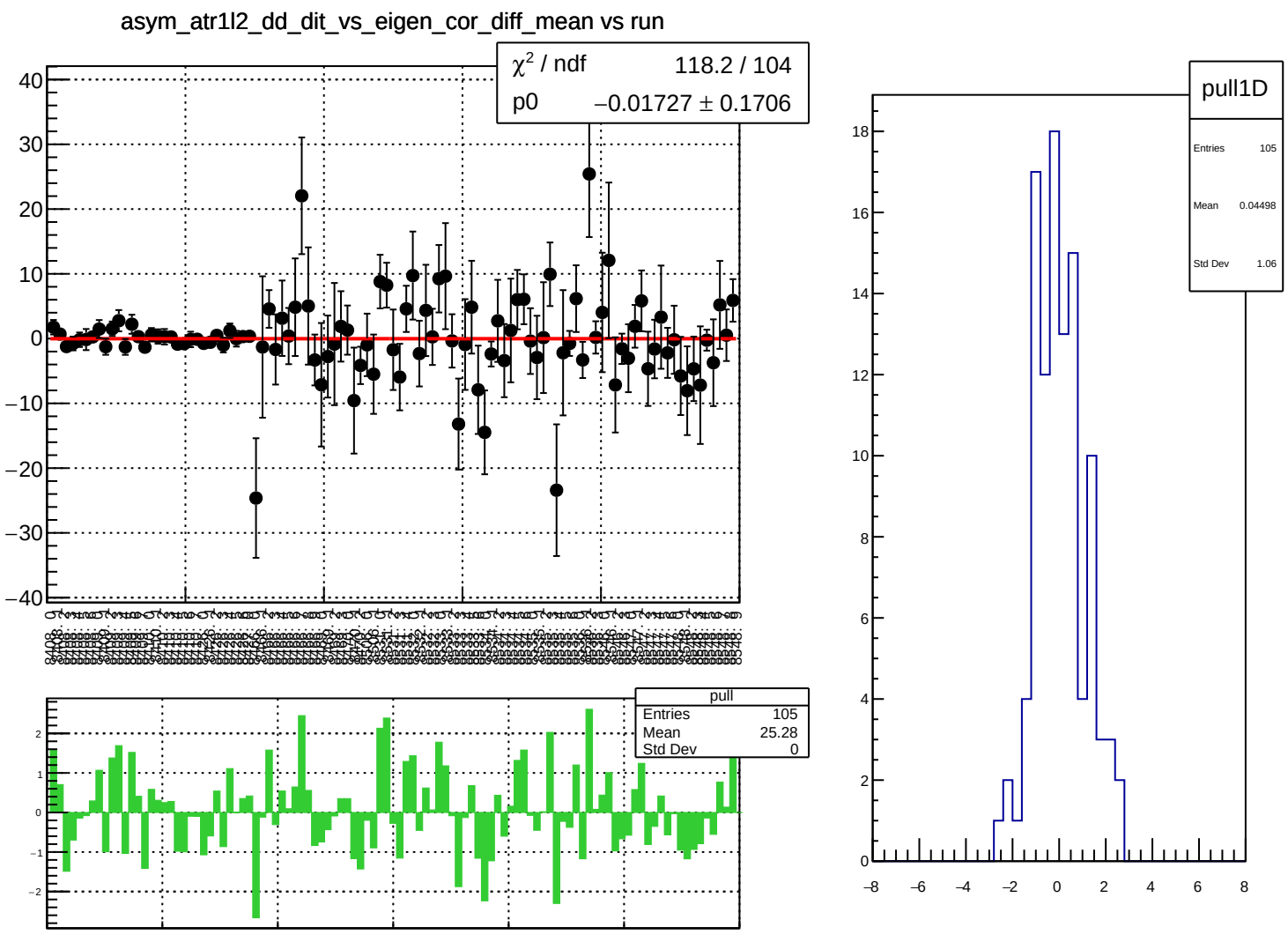

asym_atr1l2_dd_rms vs run
χ^2 / ndf 8.859e+05 / 104
p0 6056 ± 5.622
25000
20000
15000
10000
5000

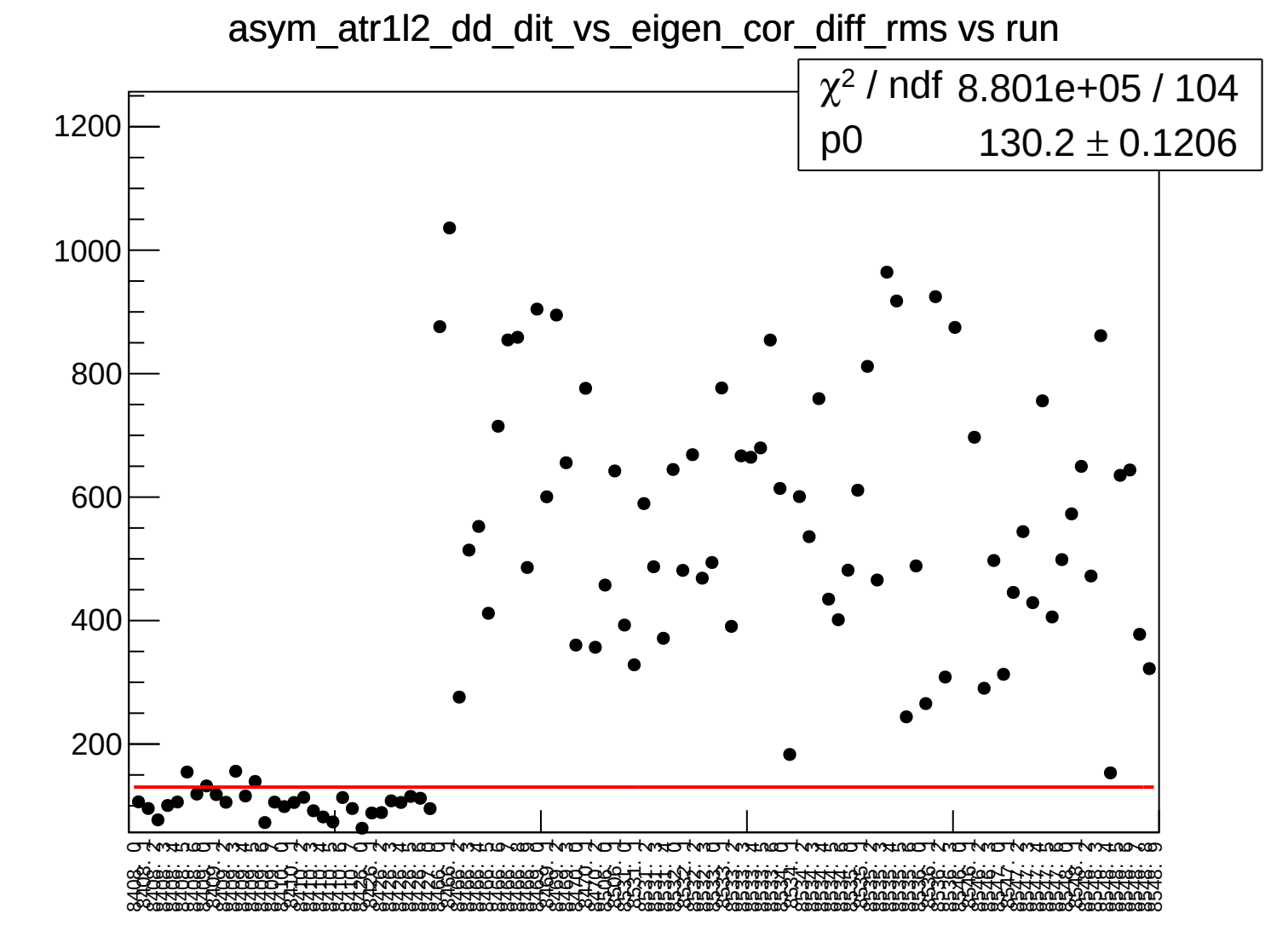

asym_atr1l2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 111.3 / 104
p0 −7.585e−14 ± 4.293e−13
pull
Entries 105
Mean 188
Std Dev 0
pull1D
Entries 105
Mean 0.03137
Std Dev 1.029

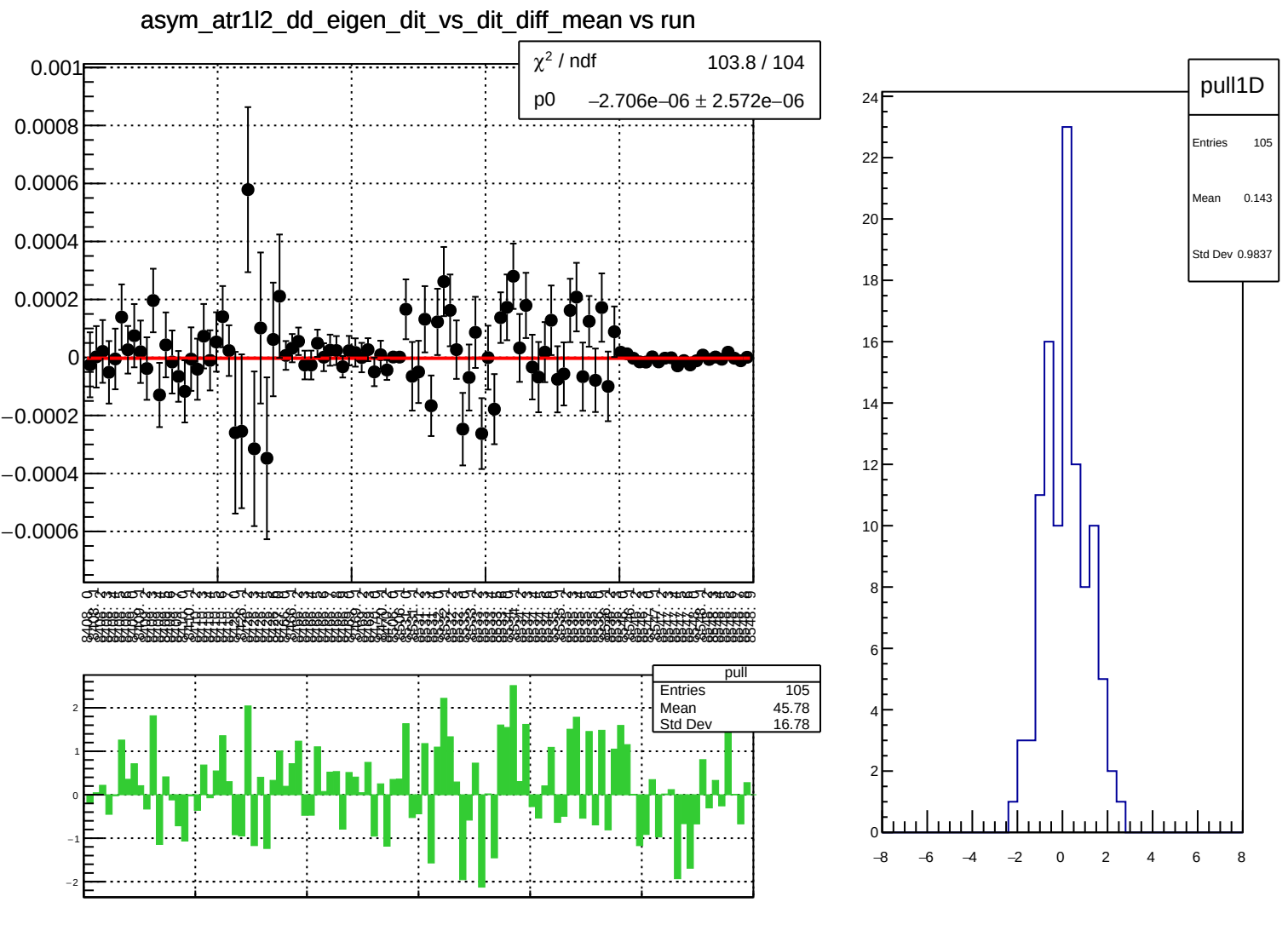

asym_atr1l2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.418e+06 / 104
p0 2.406e−10 ± 3.035e−13
18
16
14
12
10
8
6
4
2
0

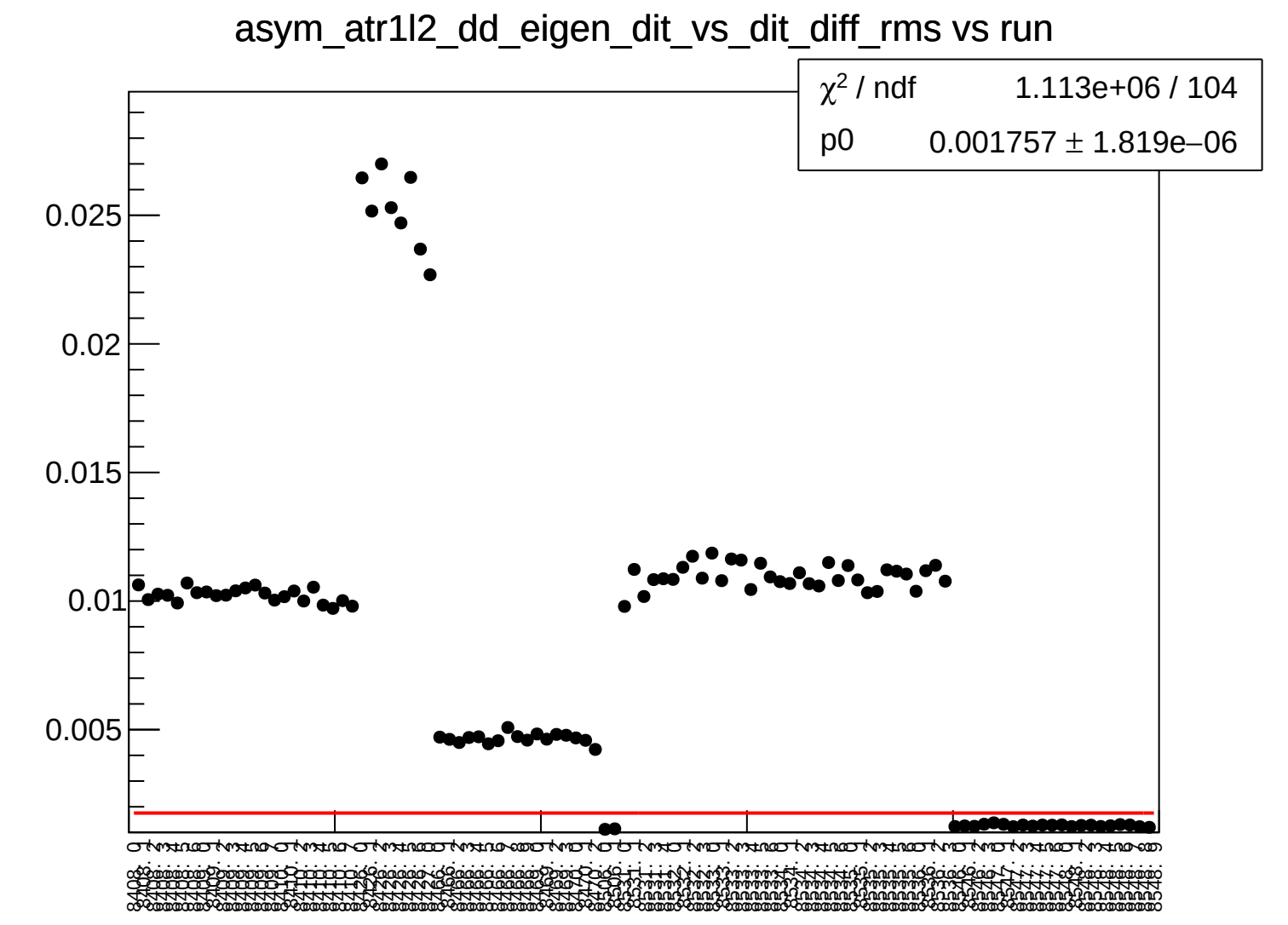

asym_atr1l2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 118.2 / 104
p0 −0.01727 ± 0.1706
pull
Entries 105
Mean 25.28
Std Dev 0
pull1D
Entries 105
Mean 0.04498
Std Dev 1.06

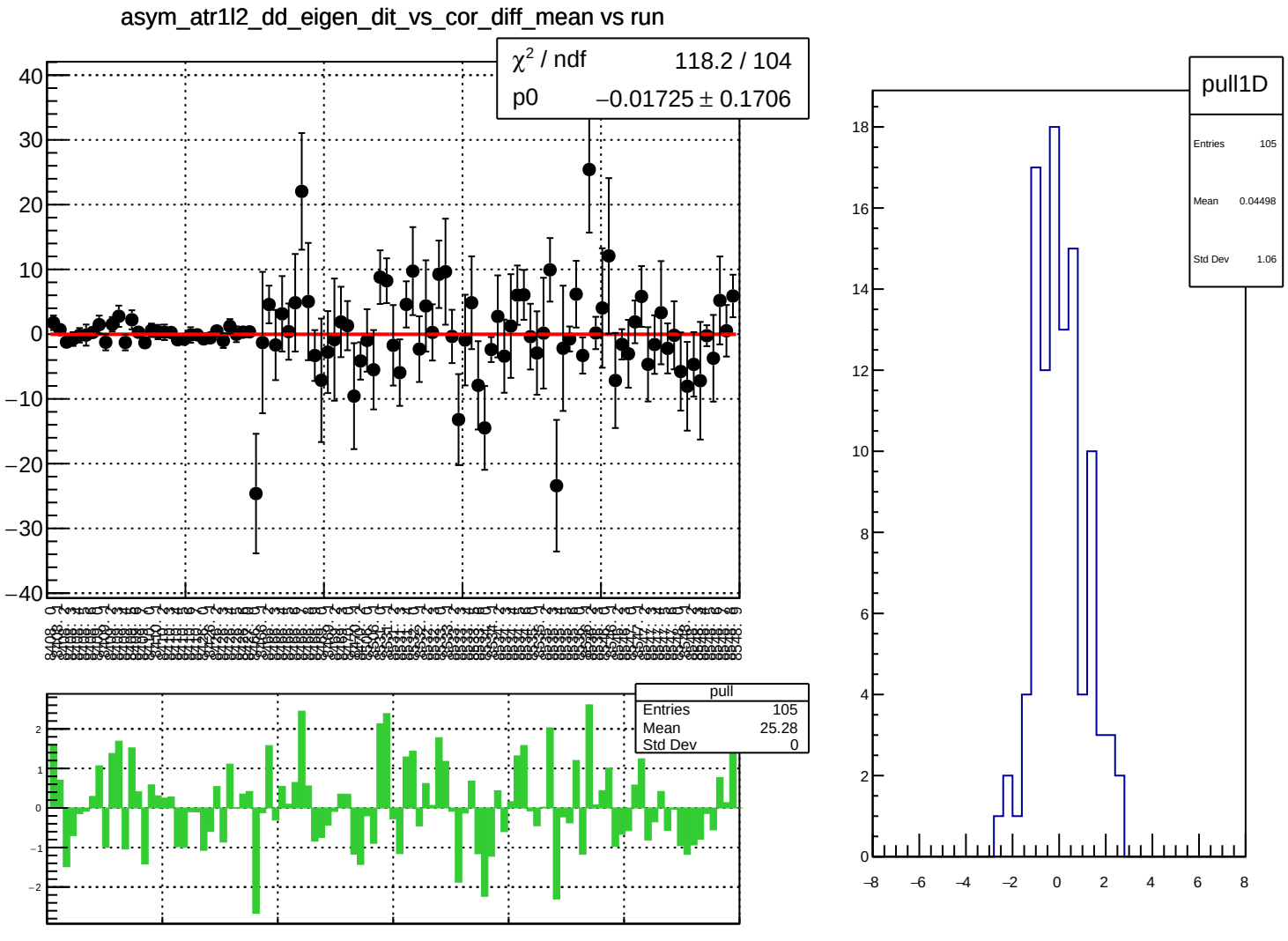

asym_atr1l2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 8.801e+05 / 104
p0 130.2 ± 0.1206
1200
1000
800
600
400
200

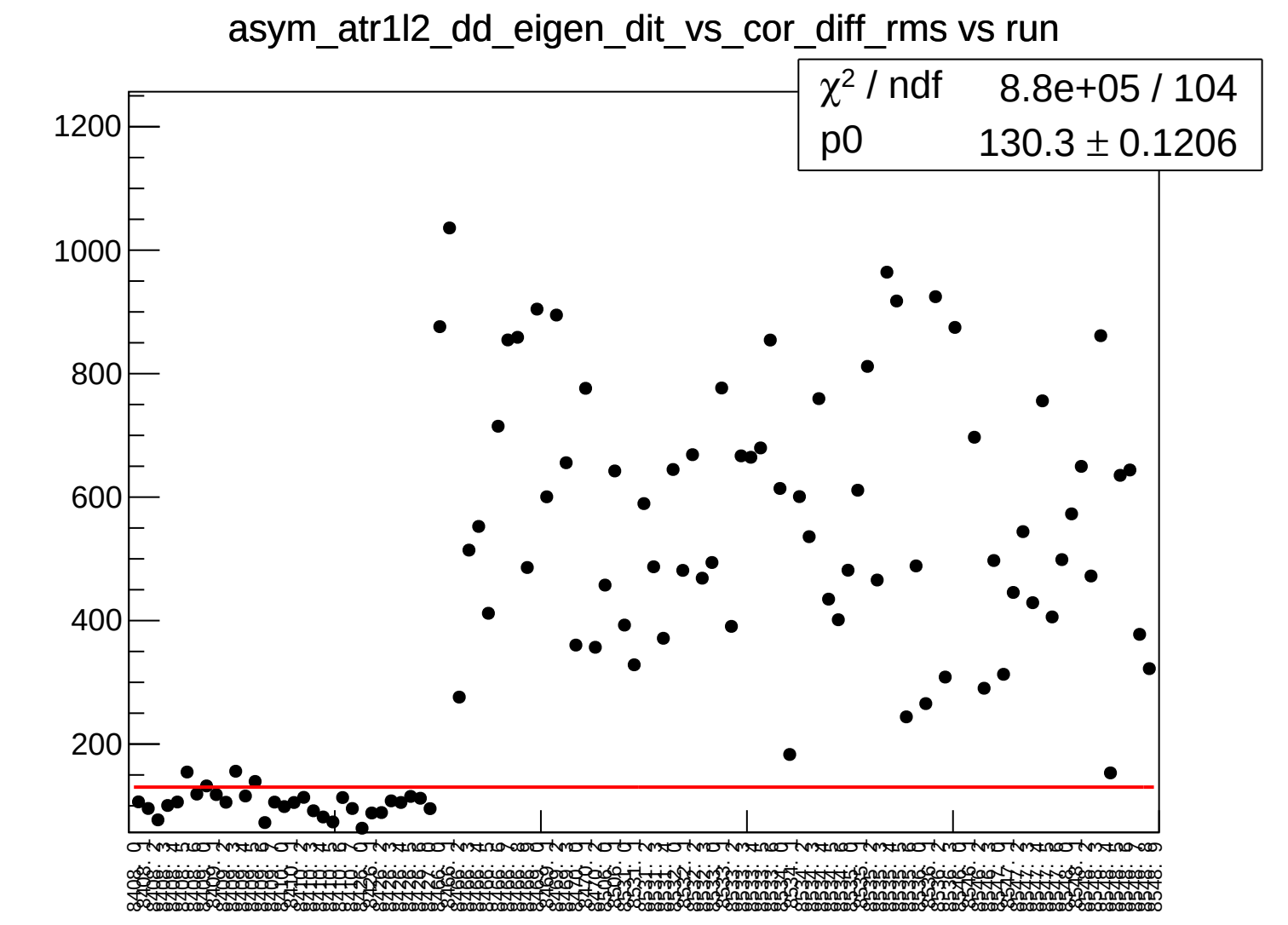

asym_atr1l2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 118.2 / 104
p0 −0.01727 ± 0.1706
pull
Entries 105
Mean 25.28
Std Dev 0
pull1D
Entries 105
Mean 0.04498
Std Dev 1.06

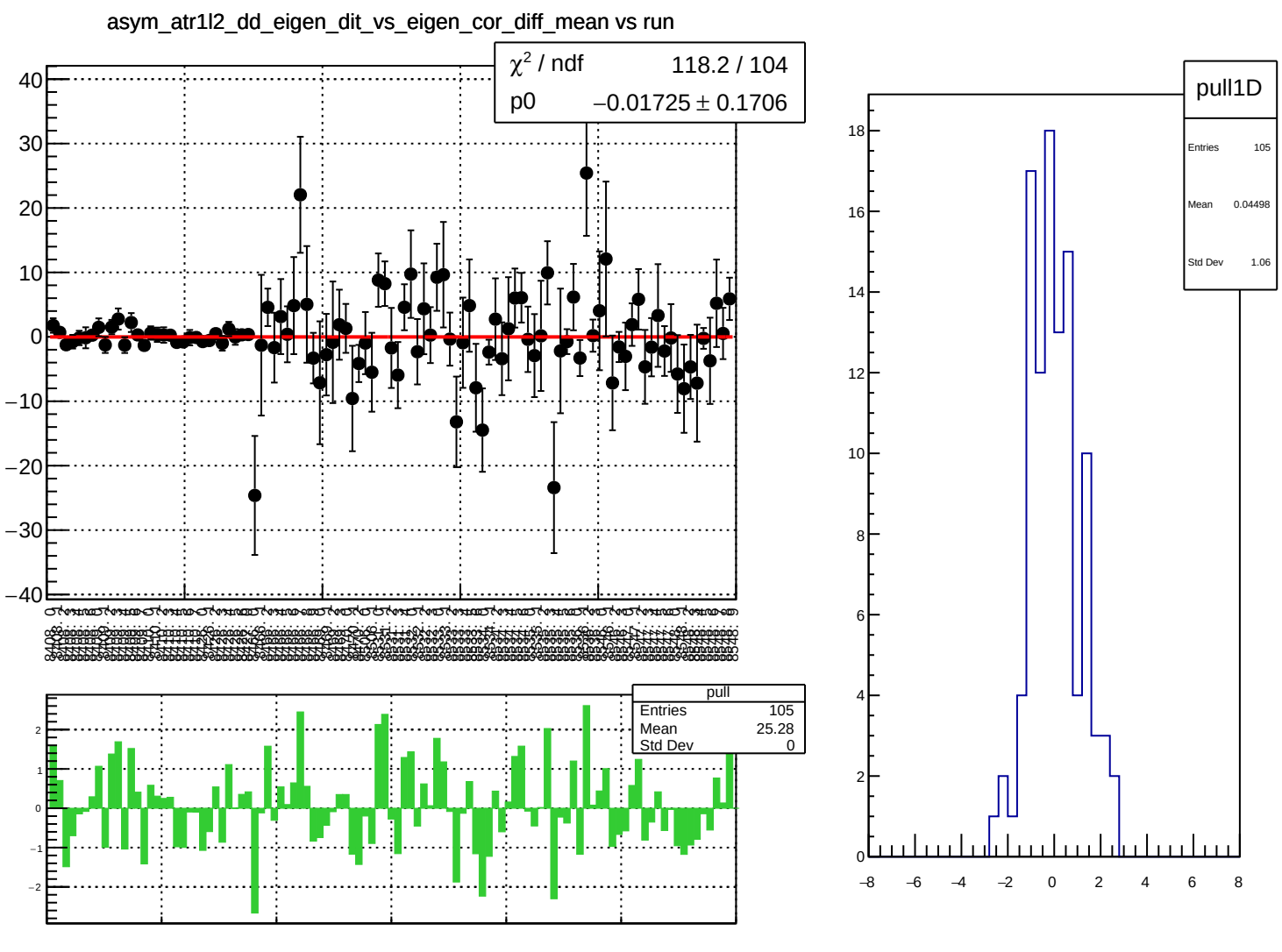

asym_atr1l2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.801e+05 / 104
p0 130.2 ± 0.1206
1200
1000
800
600
400
200

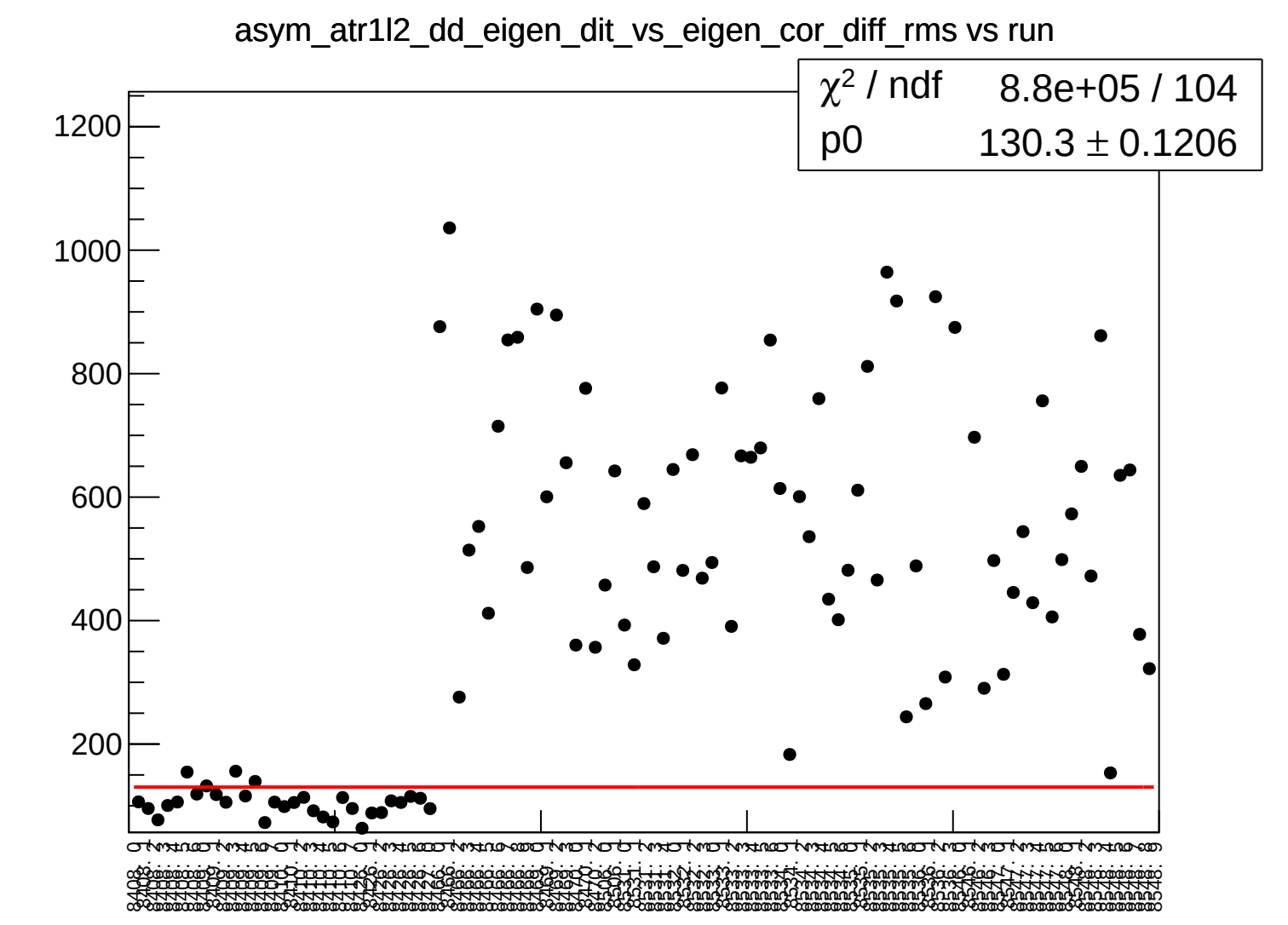

asym_atr1l2_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 103.8 / 104
p0 −2.706e−06 ± 2.572e−06
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
pull
Entries 105
Mean 45.78
Std Dev 16.78
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.143
Std Dev 0.9837
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

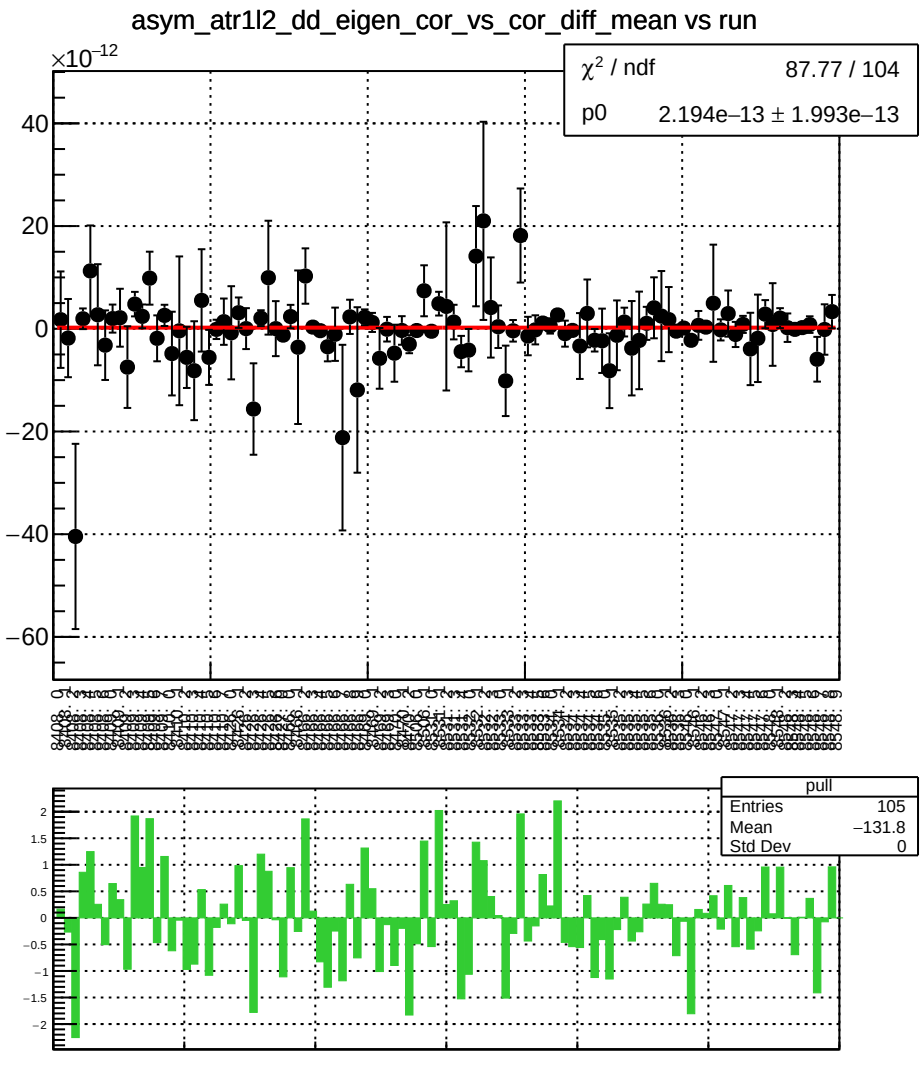

asym_atr1l2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.113e+06 / 104
p0 0.001757 ± 1.819e−06
0.025
0.02
0.015
0.01
0.005

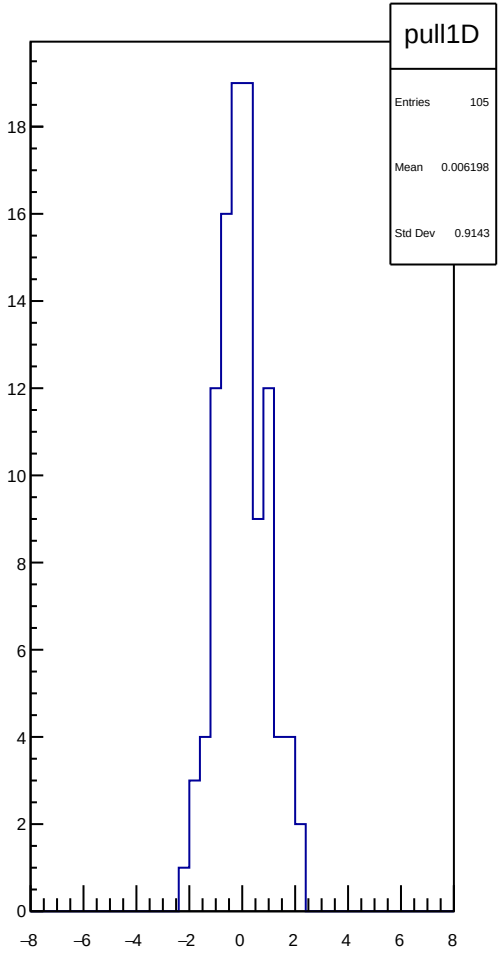

asym_atr1l2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 118.2 / 104
p0 −0.01725 ± 0.1706
pull
Entries 105
Mean 25.28
Std Dev 0
pull1D
Entries 105
Mean 0.04498
Std Dev 1.06

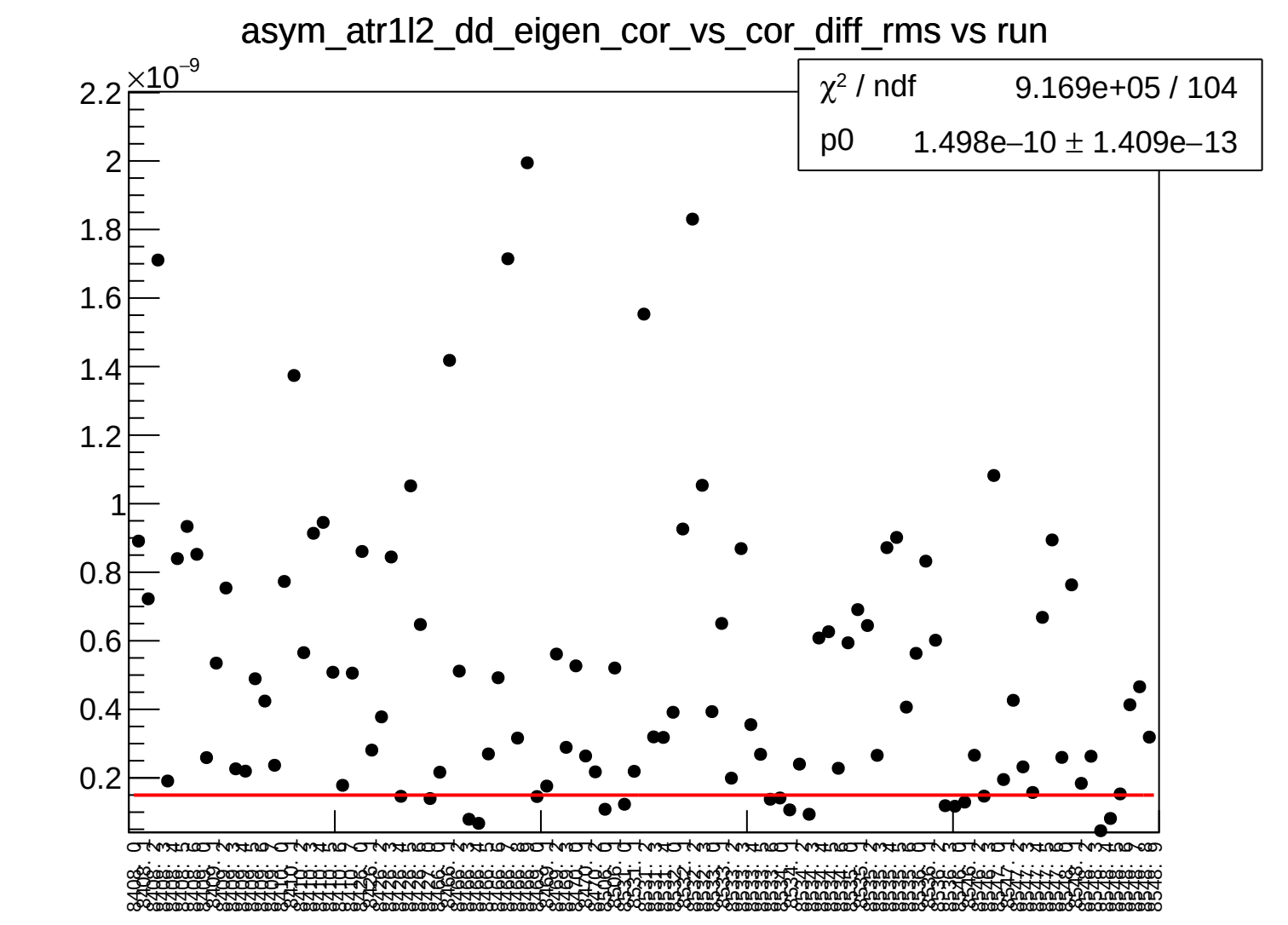

asym_atr1l2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.8e+05 / 104
p0 130.3 ± 0.1206
1200
1000
800
600
400
200

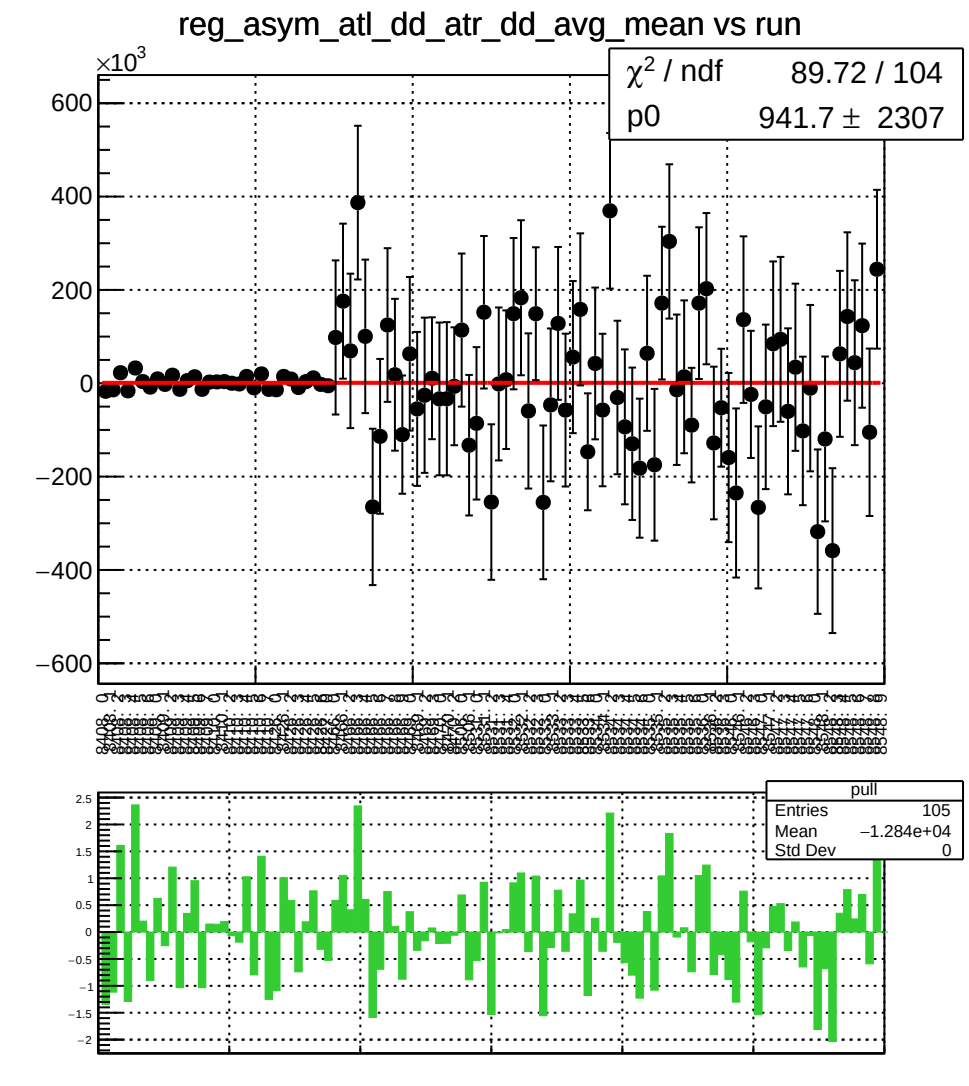

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 118.2 / 104
p0 −0.01725 ± 0.1706
pull
Entries 105
Mean 25.28
Std Dev 0
pull1D
Entries 105
Mean 0.04498
Std Dev 1.06

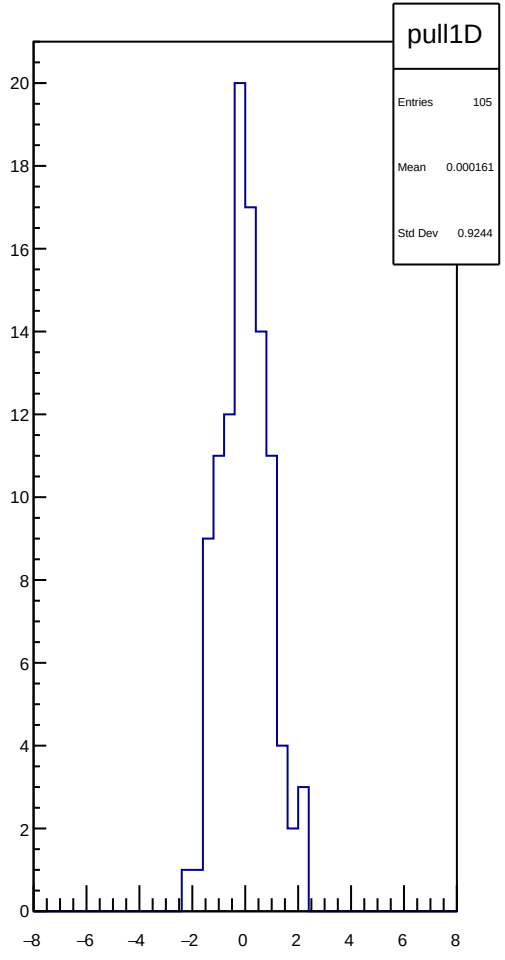

asym_atr1l2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.8e+05 / 104
p0 130.3 ± 0.1206
1200
1000
800
600
400
200

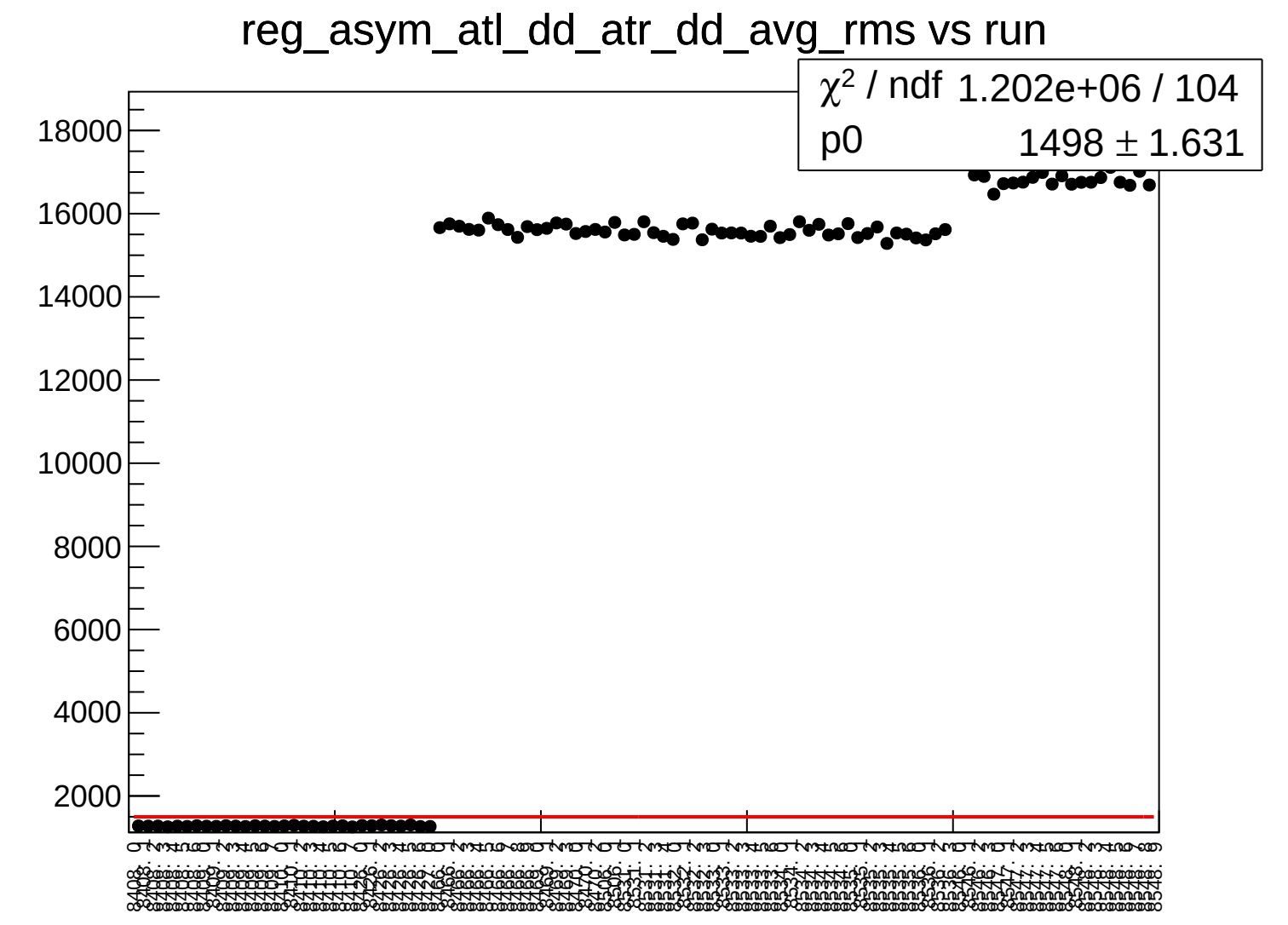

asym_atr1l2_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 87.77 / 104
p0 2.194e−13 ± 1.993e−13
pull
Entries 105
Mean −131.8
Std Dev 0

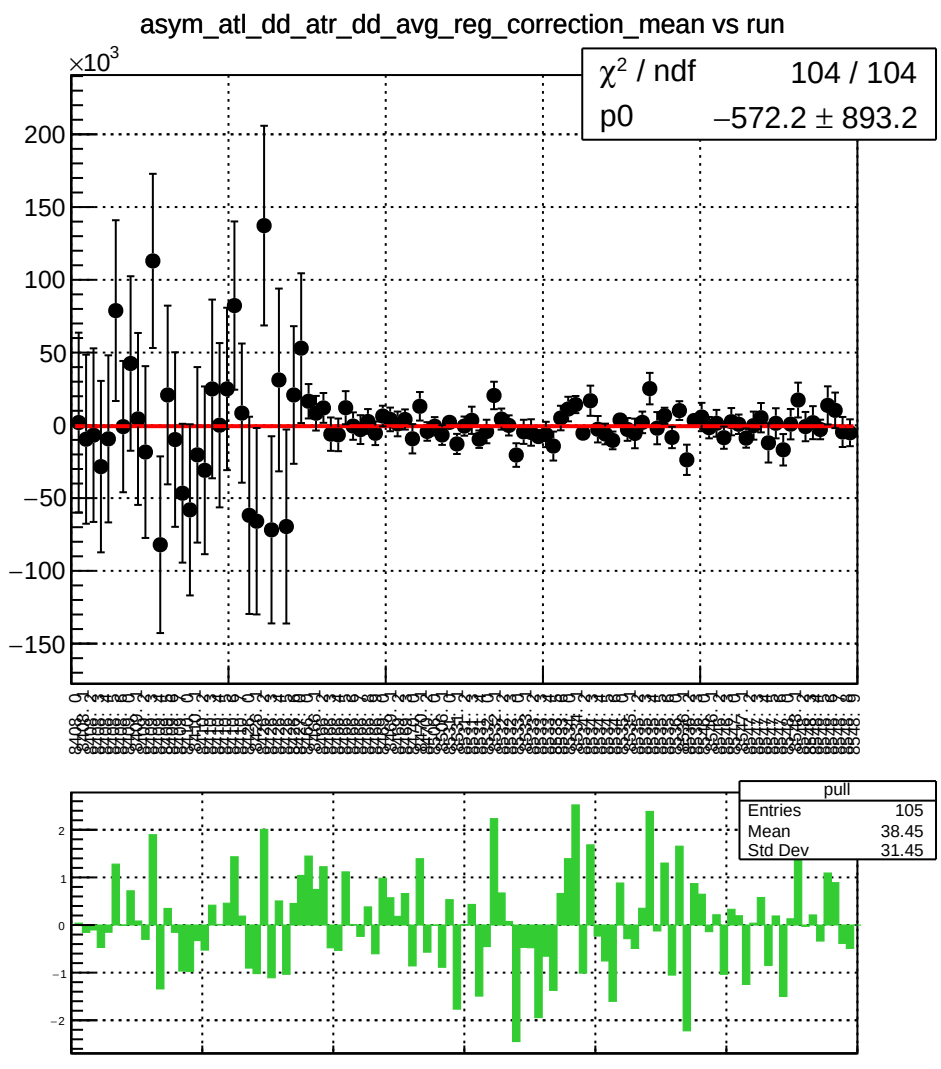

pull1D
Entries 105
Mean 0.006198
Std Dev 0.9143

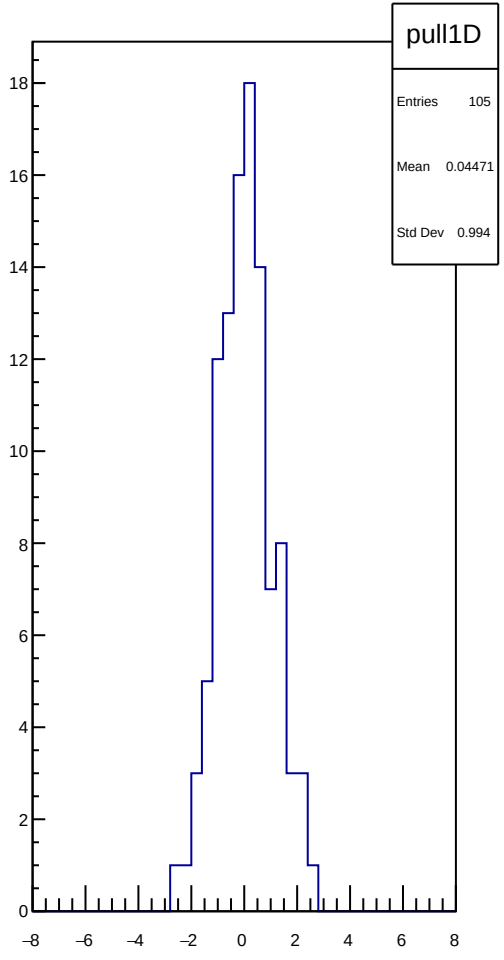

asym_atr1l2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
χ² / ndf 9.169e+05 / 104
p0 1.498e−10 ± 1.409e−13

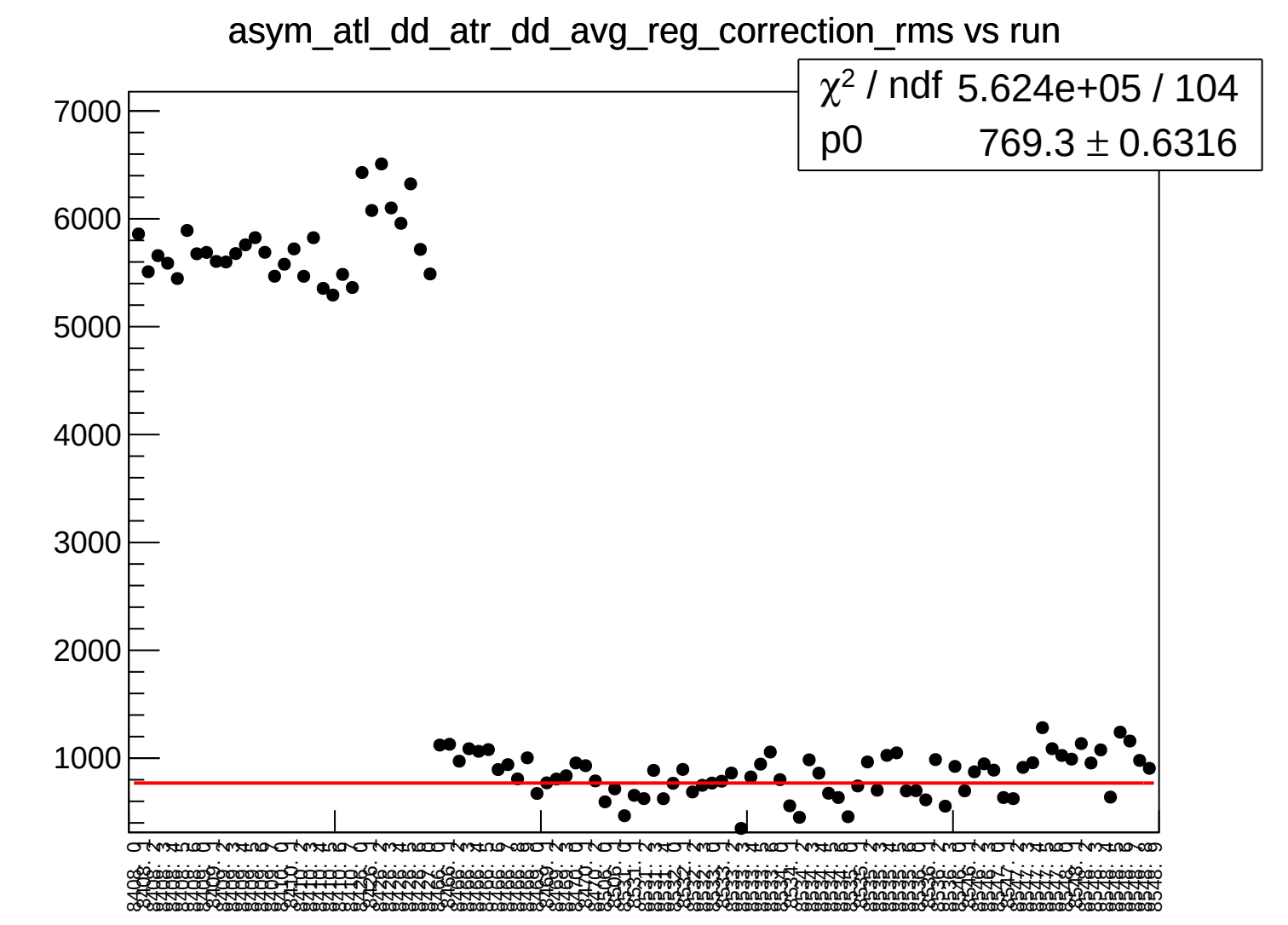

reg_asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ^2 / ndf 89.72 / 104
p0 941.7 ± 2307
600
400
200
0
−200
−400
−600
pull
Entries 105
Mean −1.284e+04
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

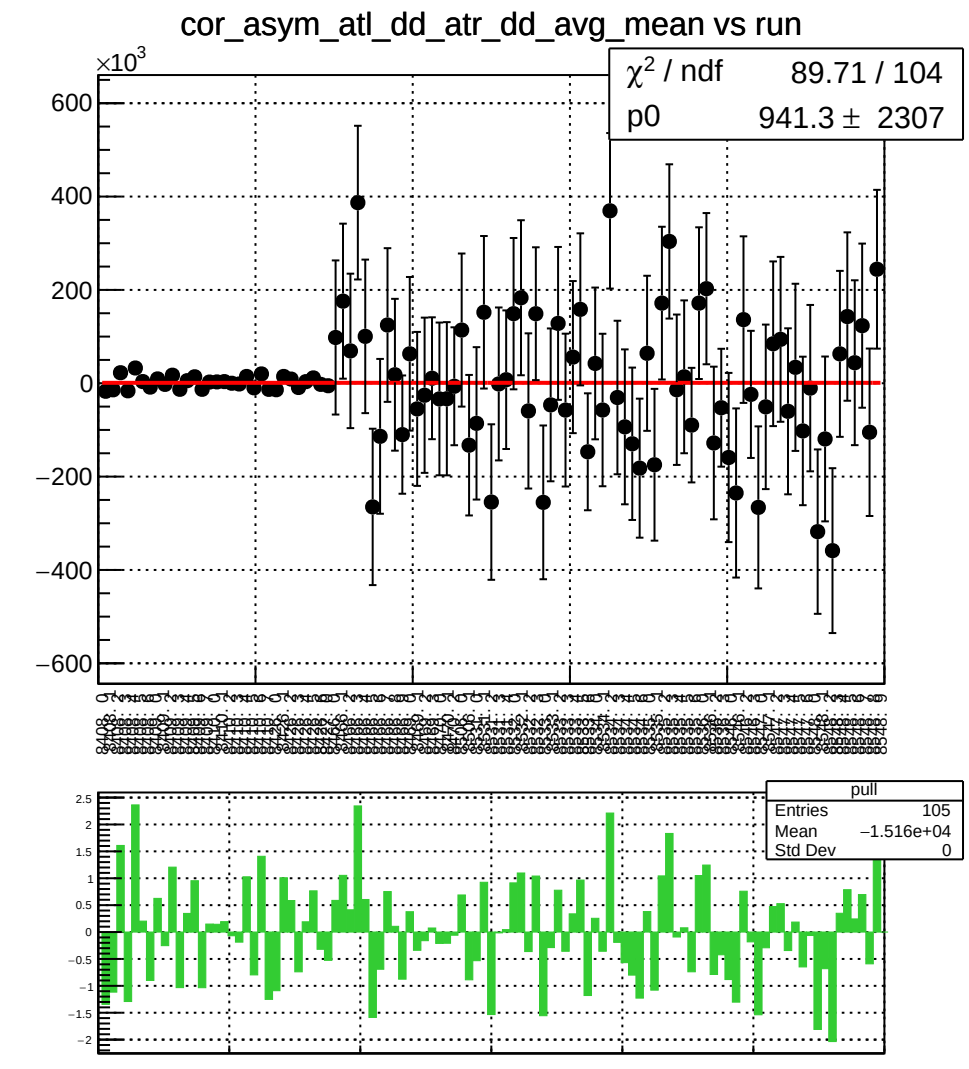

pull1D
Entries 105
Mean 0.000161
Std Dev 0.9244
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

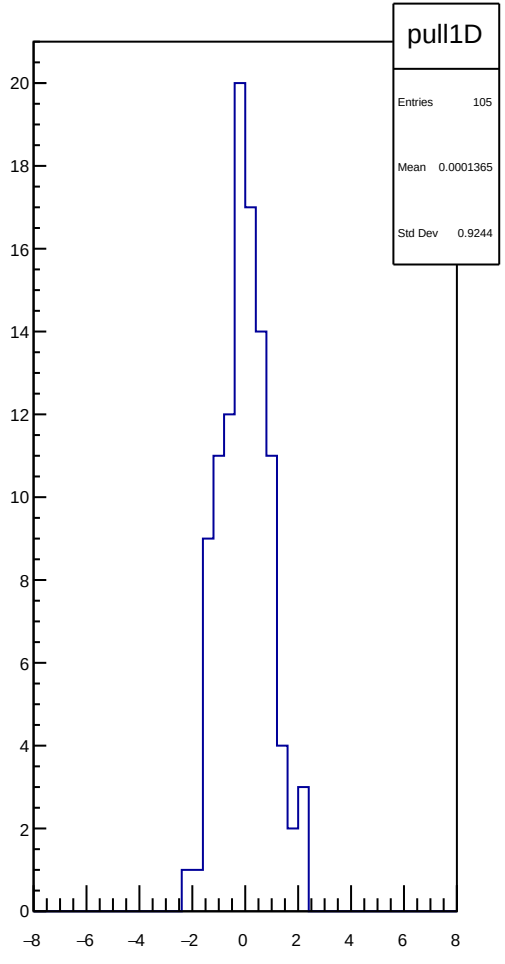

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ^2 / ndf 1.202e+06 / 104
p0 1498 ± 1.631
18000
16000
14000
12000
10000
8000
6000
4000
2000

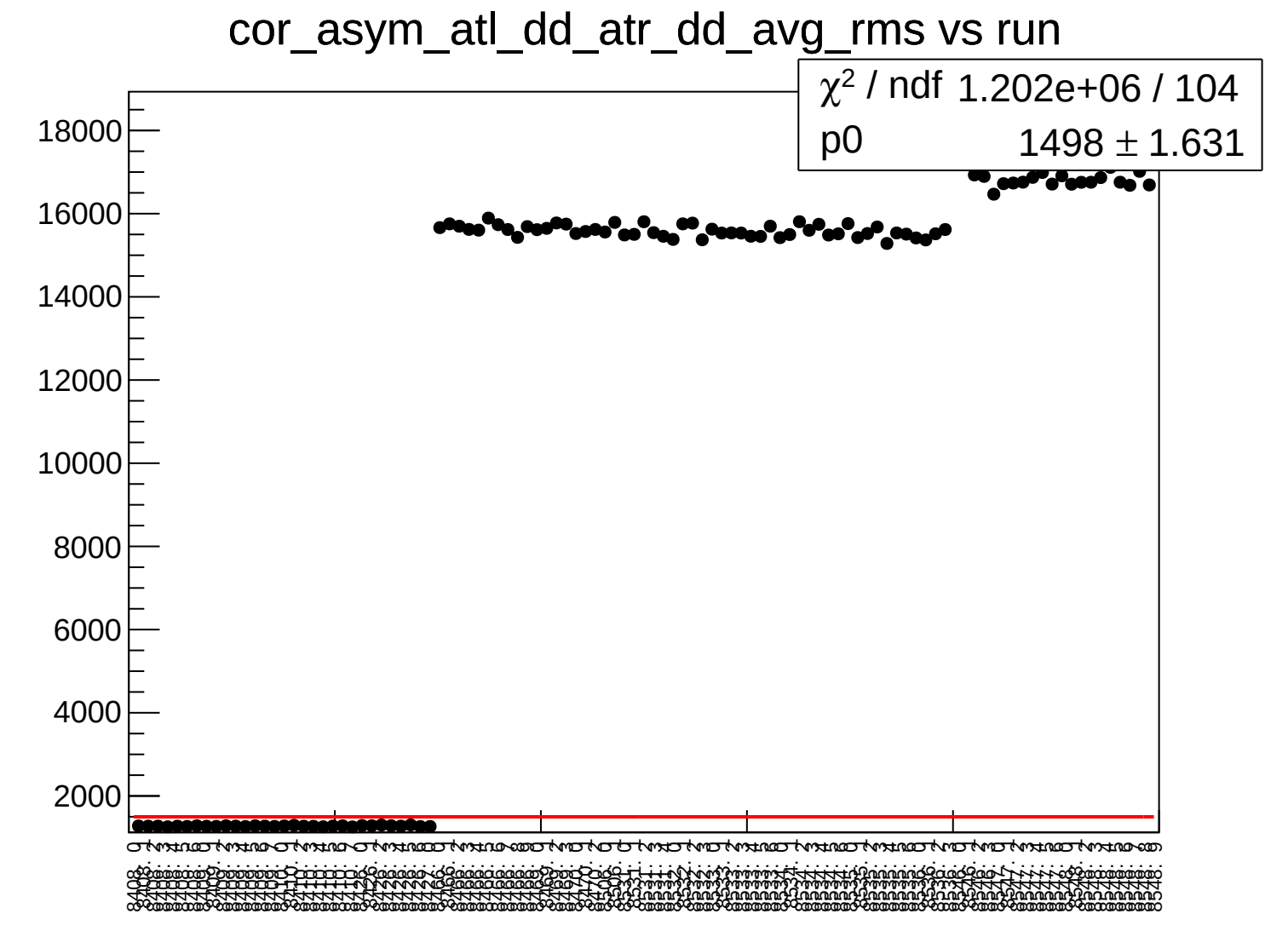

asym_atl_dd_atr_dd_avg_reg_correction_mean vs run
×10^3
χ² / ndf 104 / 104
p0 −572.2 ± 893.2
200
150
100
50
0
−50
−100
−150
pull
Entries 105
Mean 38.45
Std Dev 31.45
2
1
0
−1
−2

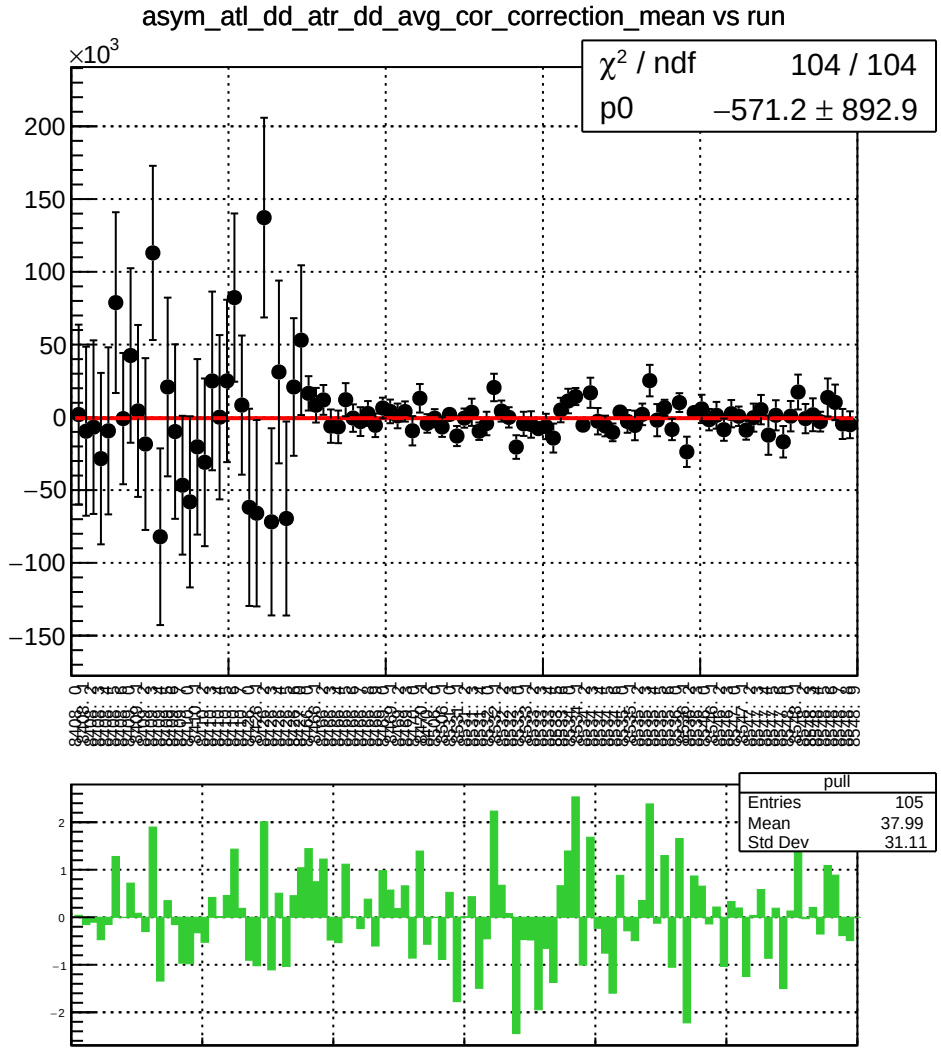

pull1D
Entries 105
Mean 0.04471
Std Dev 0.994
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

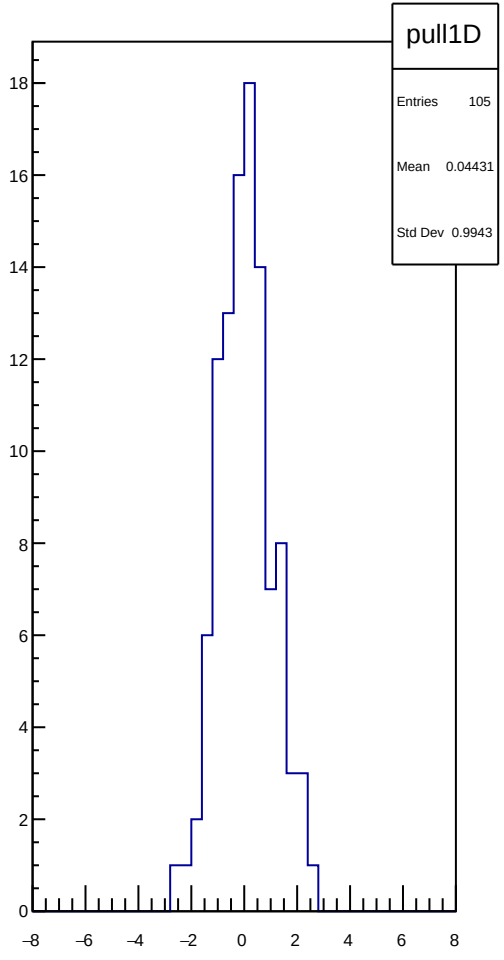

asym_atl_dd_atr_dd_avg_reg_correction_rms vs run
χ^2 / ndf 5.624e+05 / 104
p0 769.3 ± 0.6316
7000
6000
5000
4000
3000
2000
1000

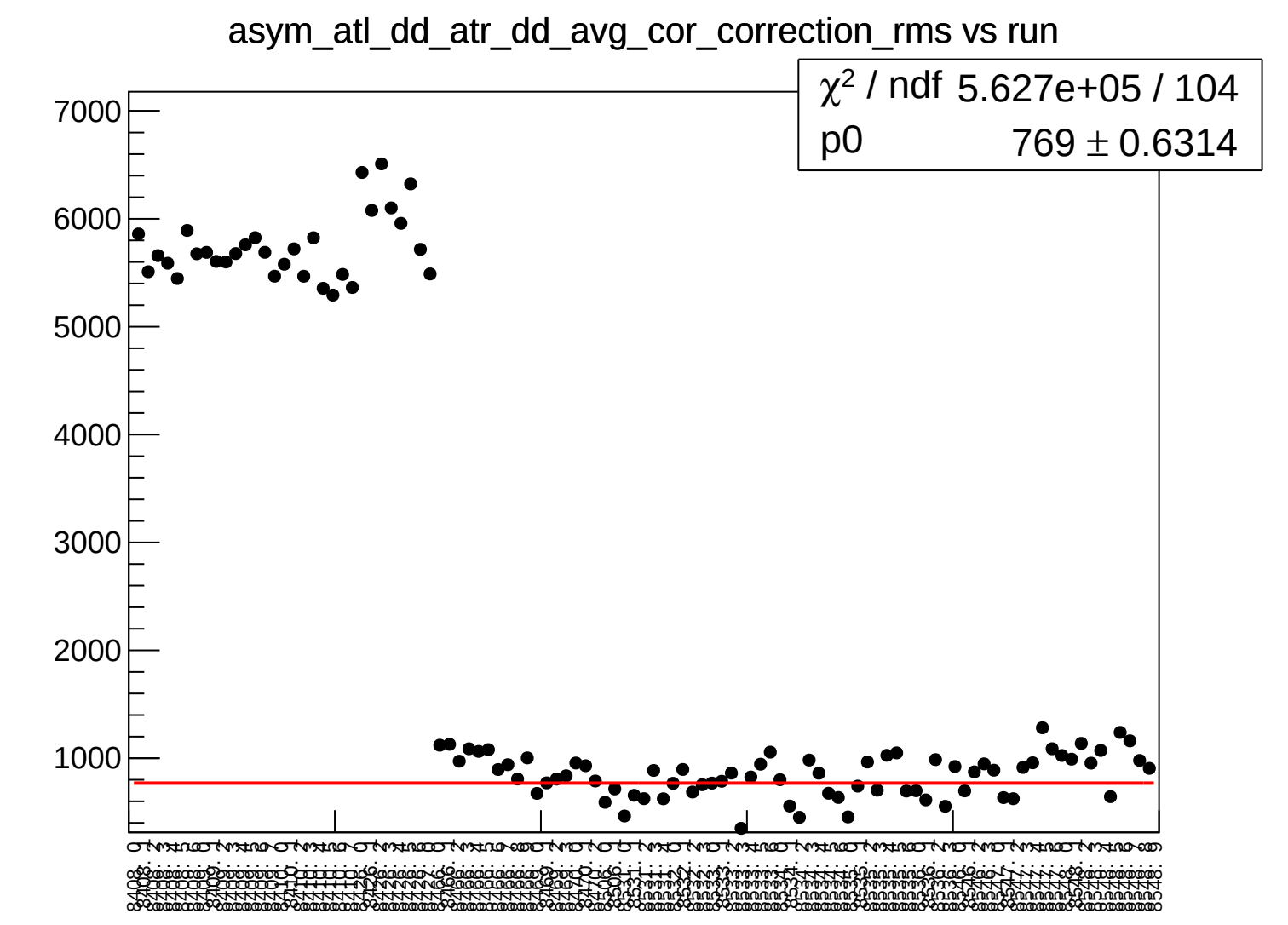

cor_asym_atl_dd_atr_dd_avg_mean vs run
×10^3
600
400
200
0
−200
−400
−600
χ² / ndf 89.71 / 104
p0 941.3 ± 2307
pull
Entries 105
Mean −1.516e+04
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

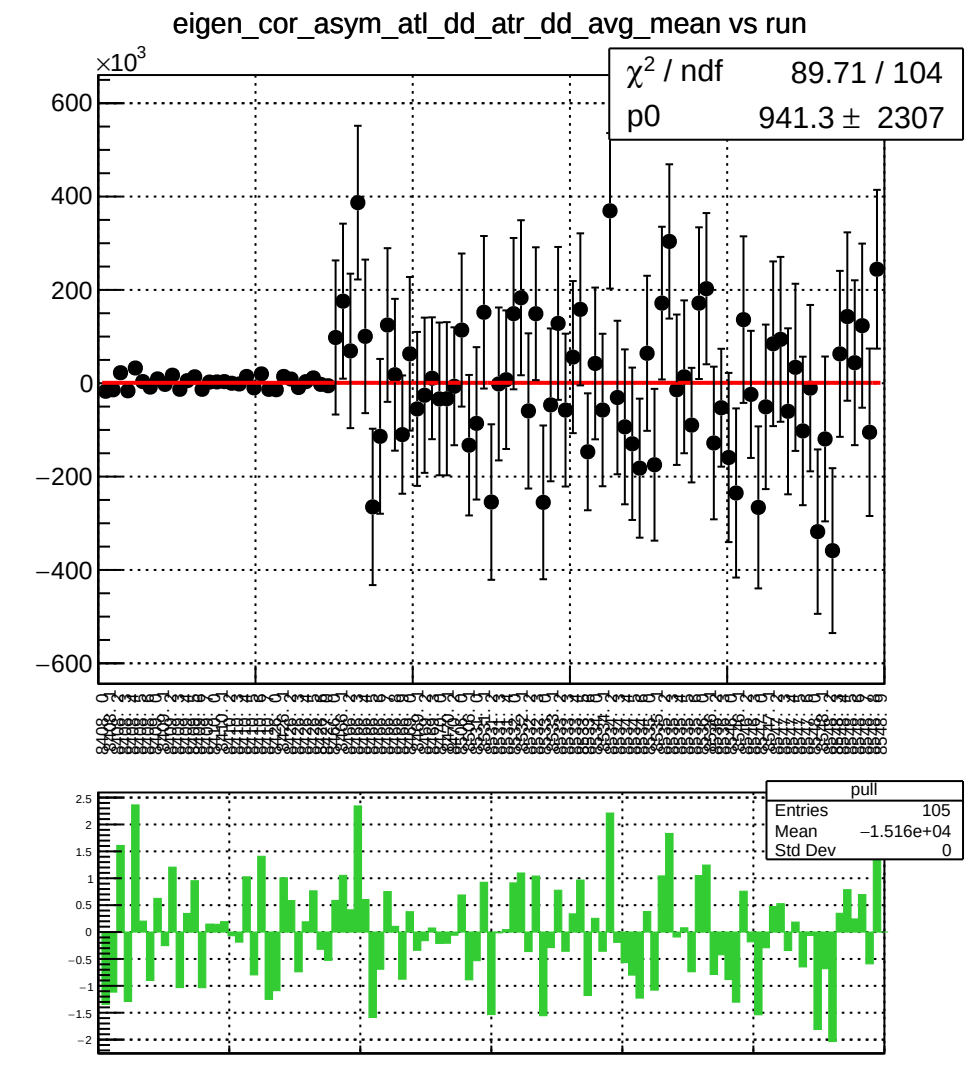

pull1D
Entries 105
Mean 0.0001365
Std Dev 0.9244
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

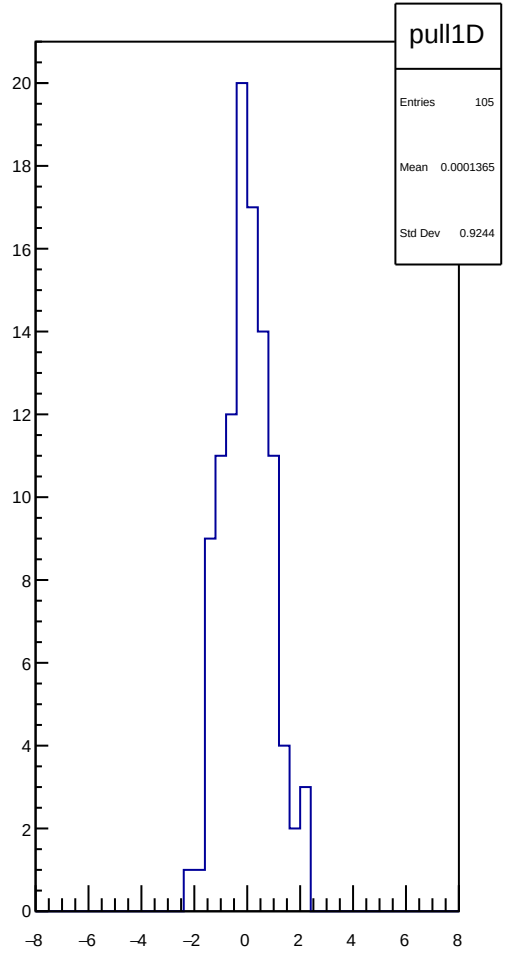

cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 1.202e+06 / 104
p0 1498 ± 1.631
18000
16000
14000
12000
10000
8000
6000
4000
2000

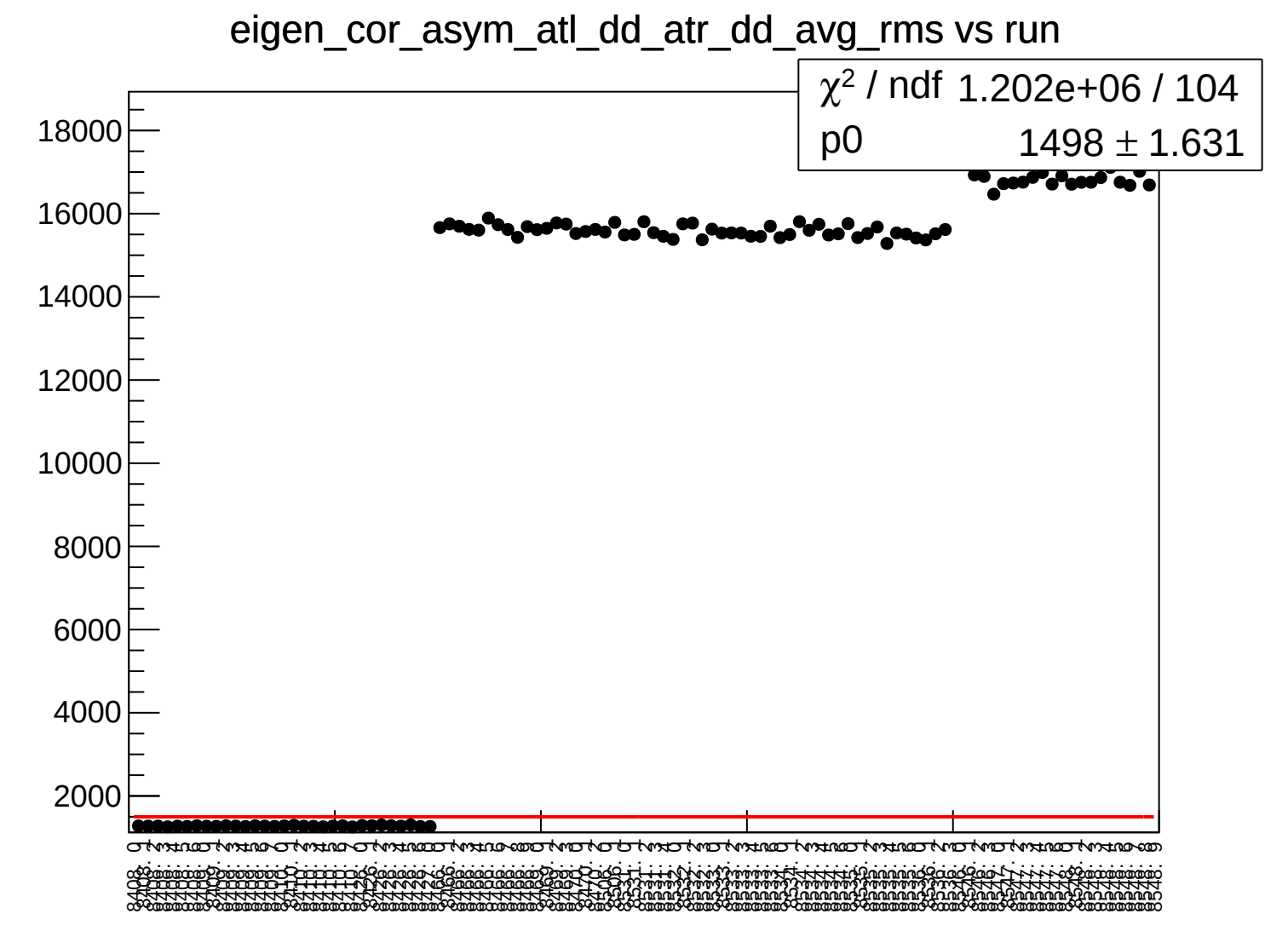

asym_atl_dd_atr_dd_avg_cor_correction_mean vs run
×10^3
χ² / ndf 104 / 104
p0 −571.2 ± 892.9
200
150
100
50
0
−50
−100
−150
pull
Entries 105
Mean 37.99
Std Dev 31.11
2
1
0
−1
−2

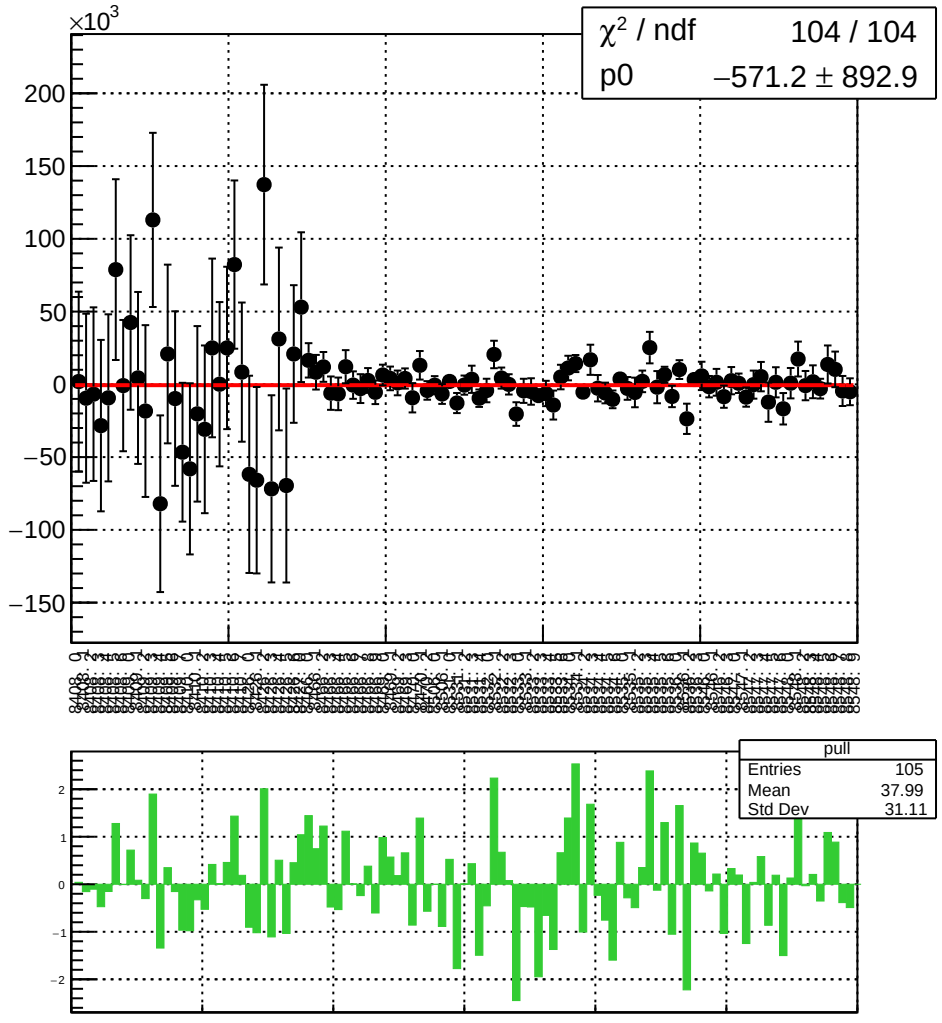

pull1D
Entries 105
Mean 0.04431
Std Dev 0.9943
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

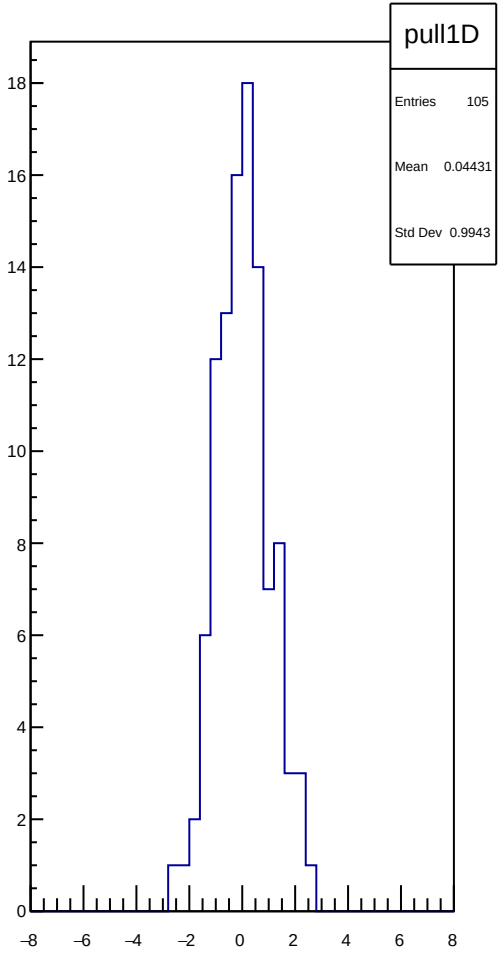

asym_atl_dd_atr_dd_avg_cor_correction_rms vs run
χ^2 / ndf 5.627e+05 / 104
p0 769 ± 0.6314
7000
6000
5000
4000
3000
2000
1000

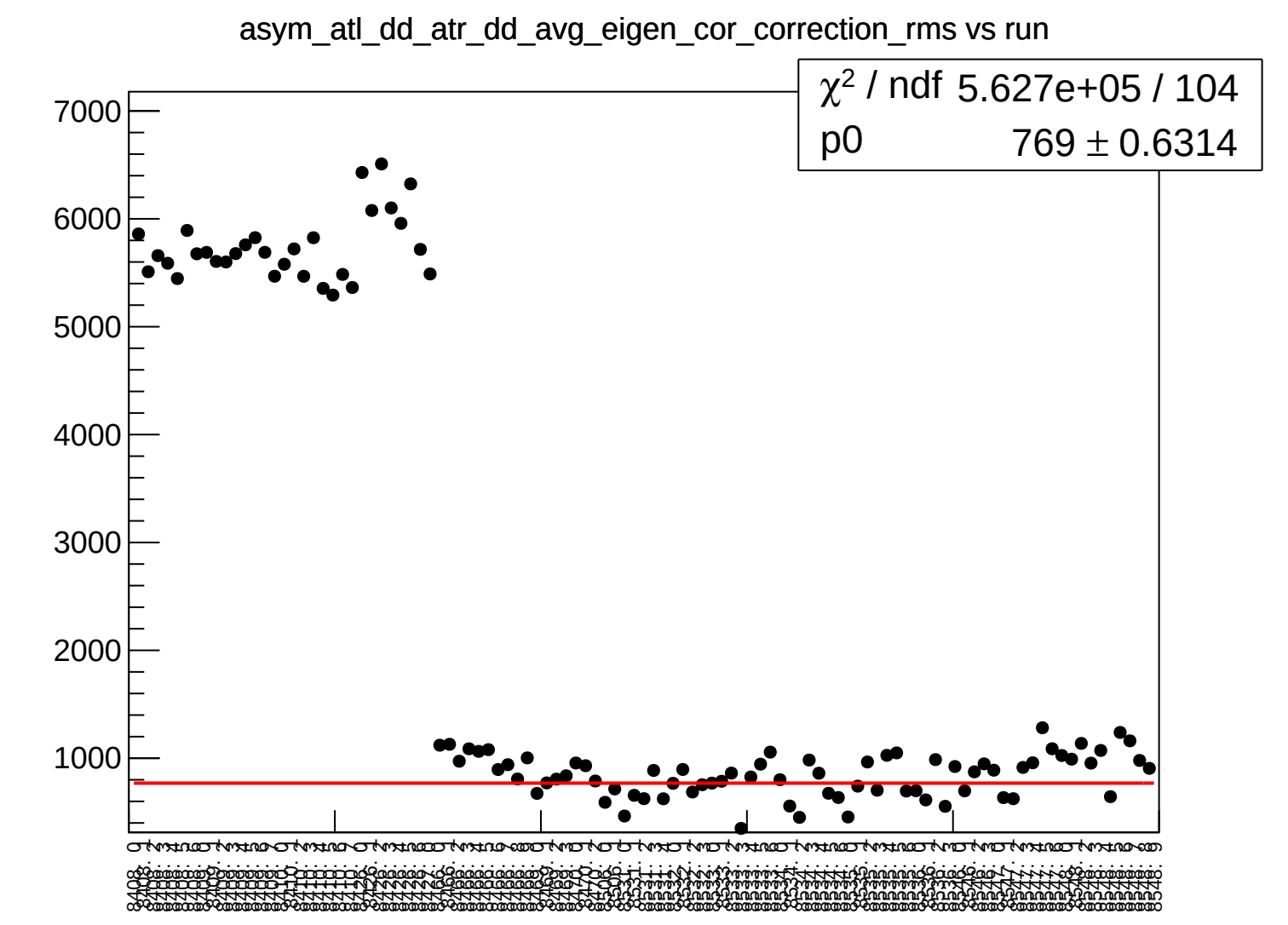

eigen_cor_asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 89.71 / 104
p0 941.3 ± 2307
600
400
200
0
−200
−400
−600
pull
Entries 105
Mean −1.516e+04
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

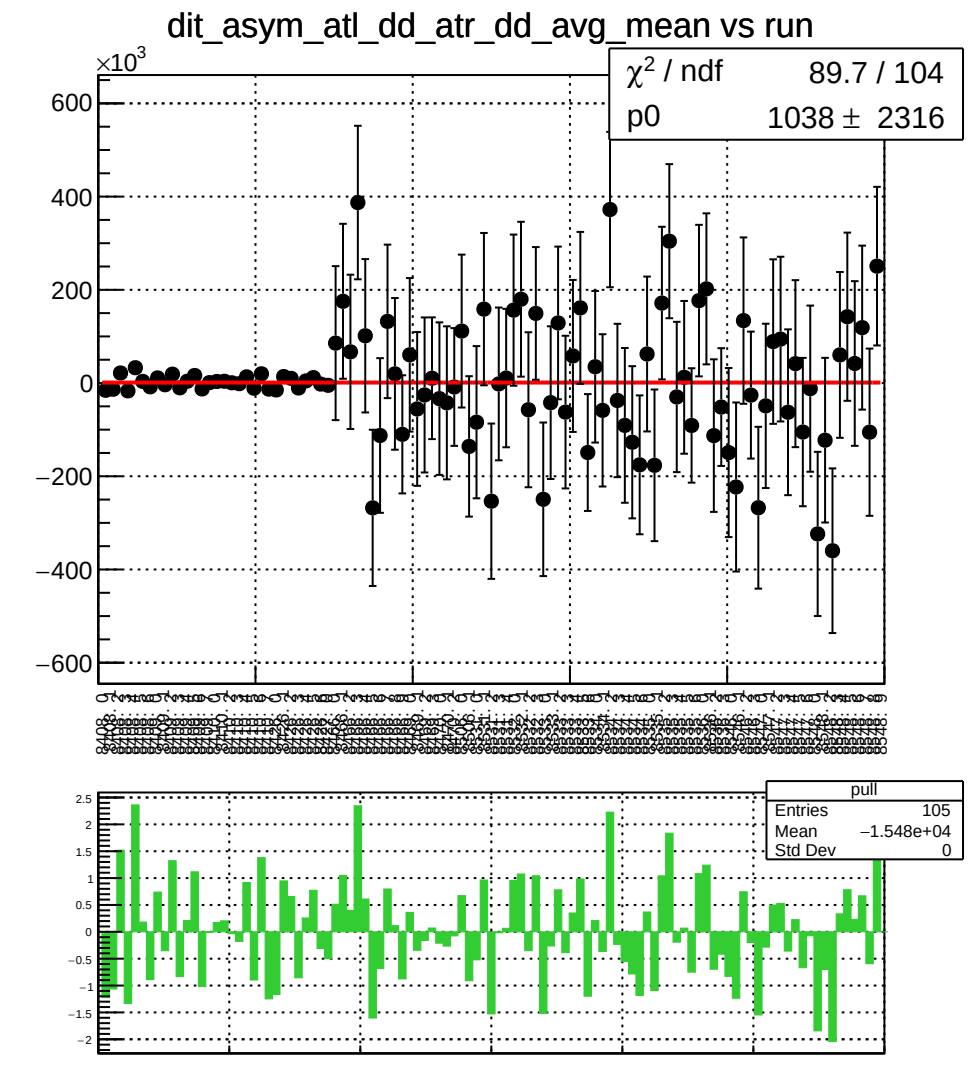

pull1D
Entries 105
Mean 0.0001365
Std Dev 0.9244
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

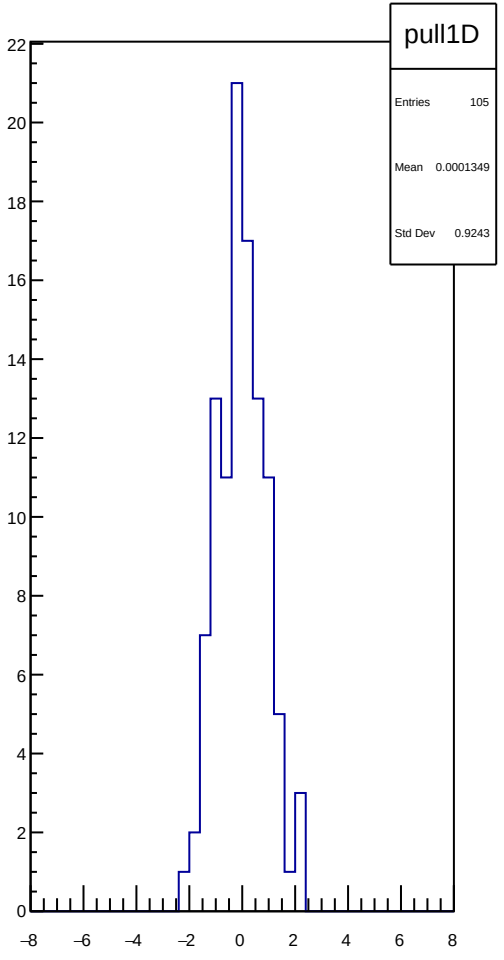

eigen_cor_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 1.202e+06 / 104
p0 1498 ± 1.631
18000
16000
14000
12000
10000
8000
6000
4000
2000

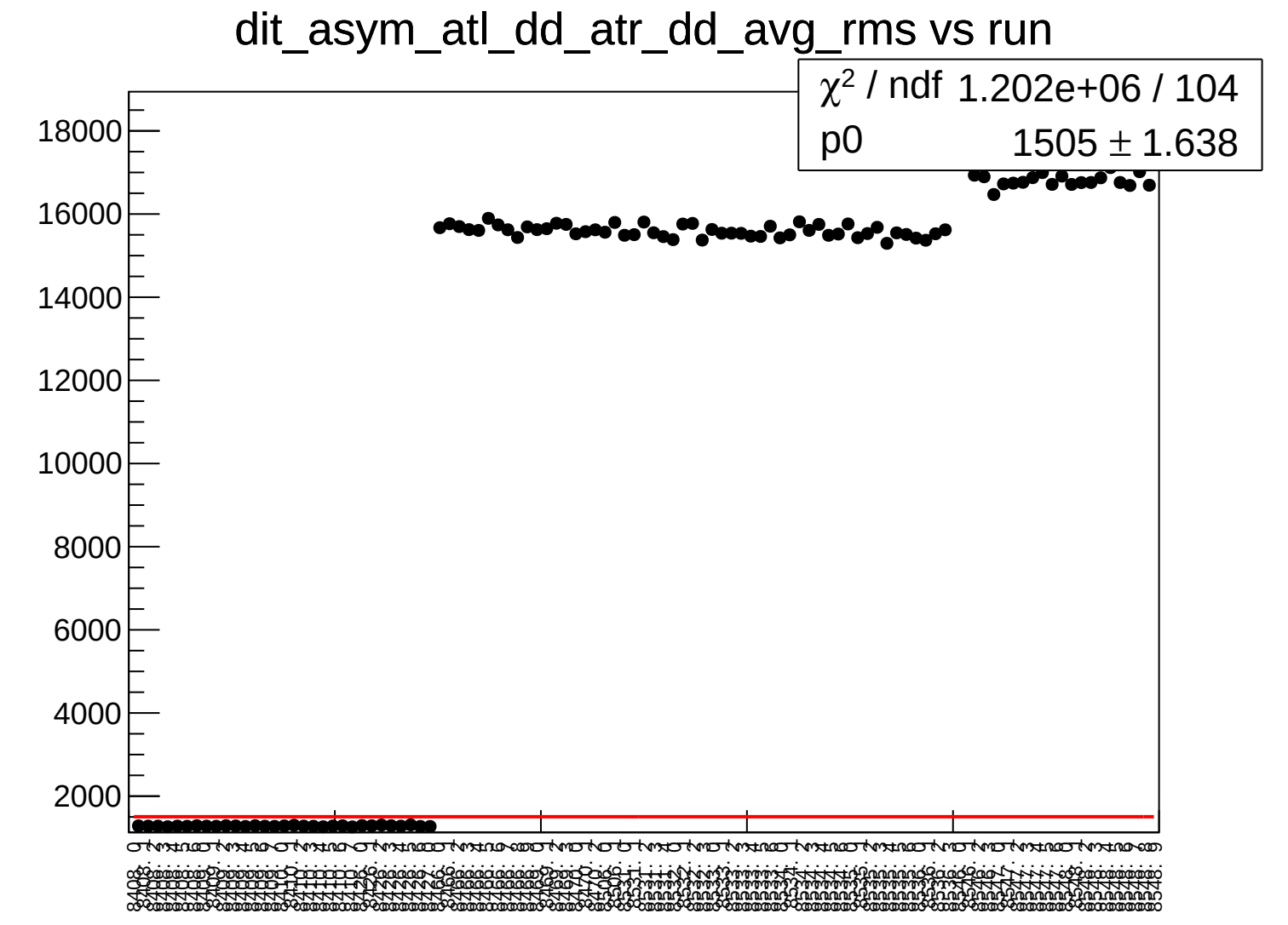

asym_atl_dd_atr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 104 / 104
p0 −571.2 ± 892.9
200
150
100
50
0
−50
−100
−150
pull
Entries 105
Mean 37.99
Std Dev 31.11
2
1
0
−1
−2

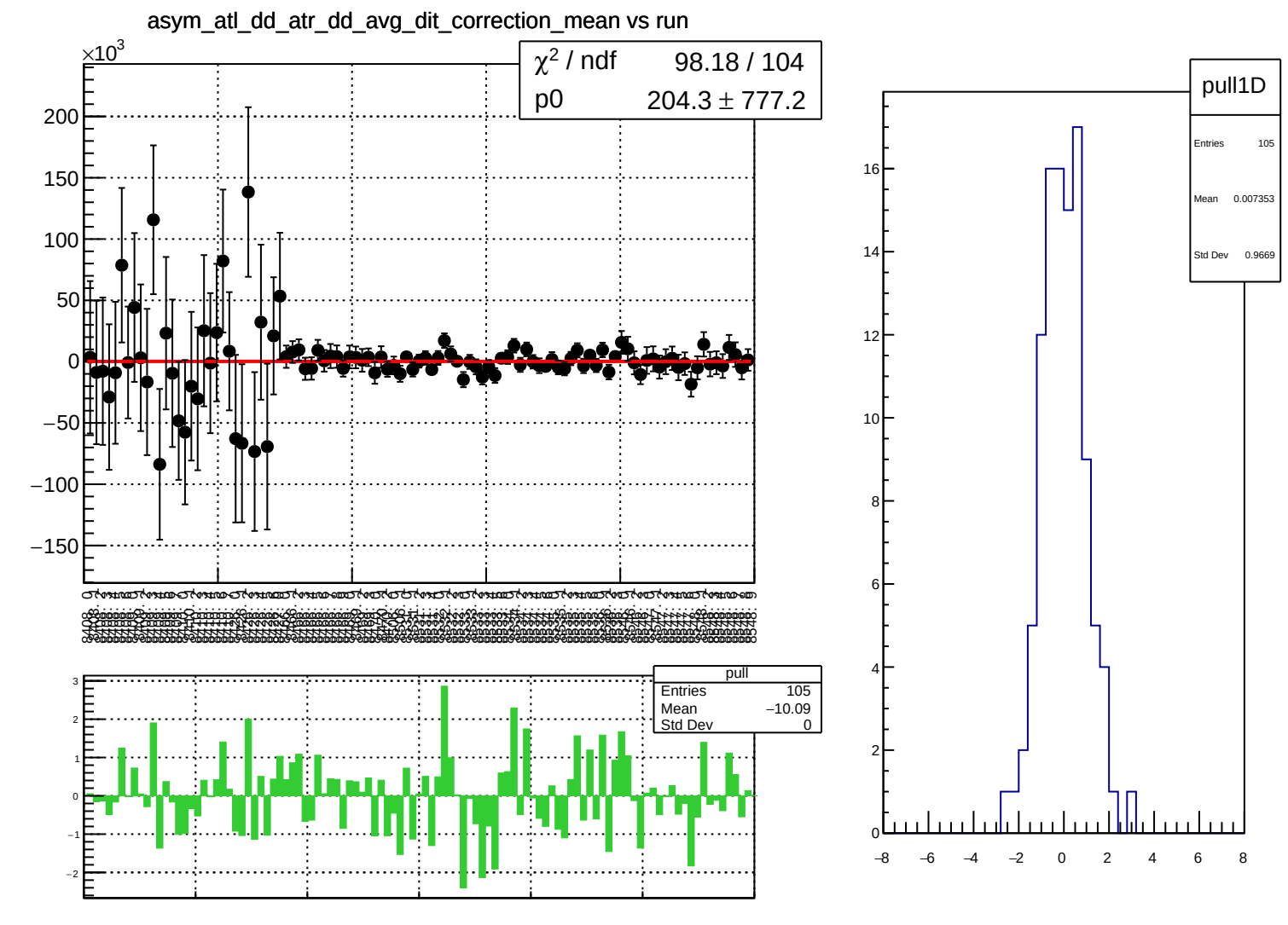

pull1D
Entries 105
Mean 0.04431
Std Dev 0.9943
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

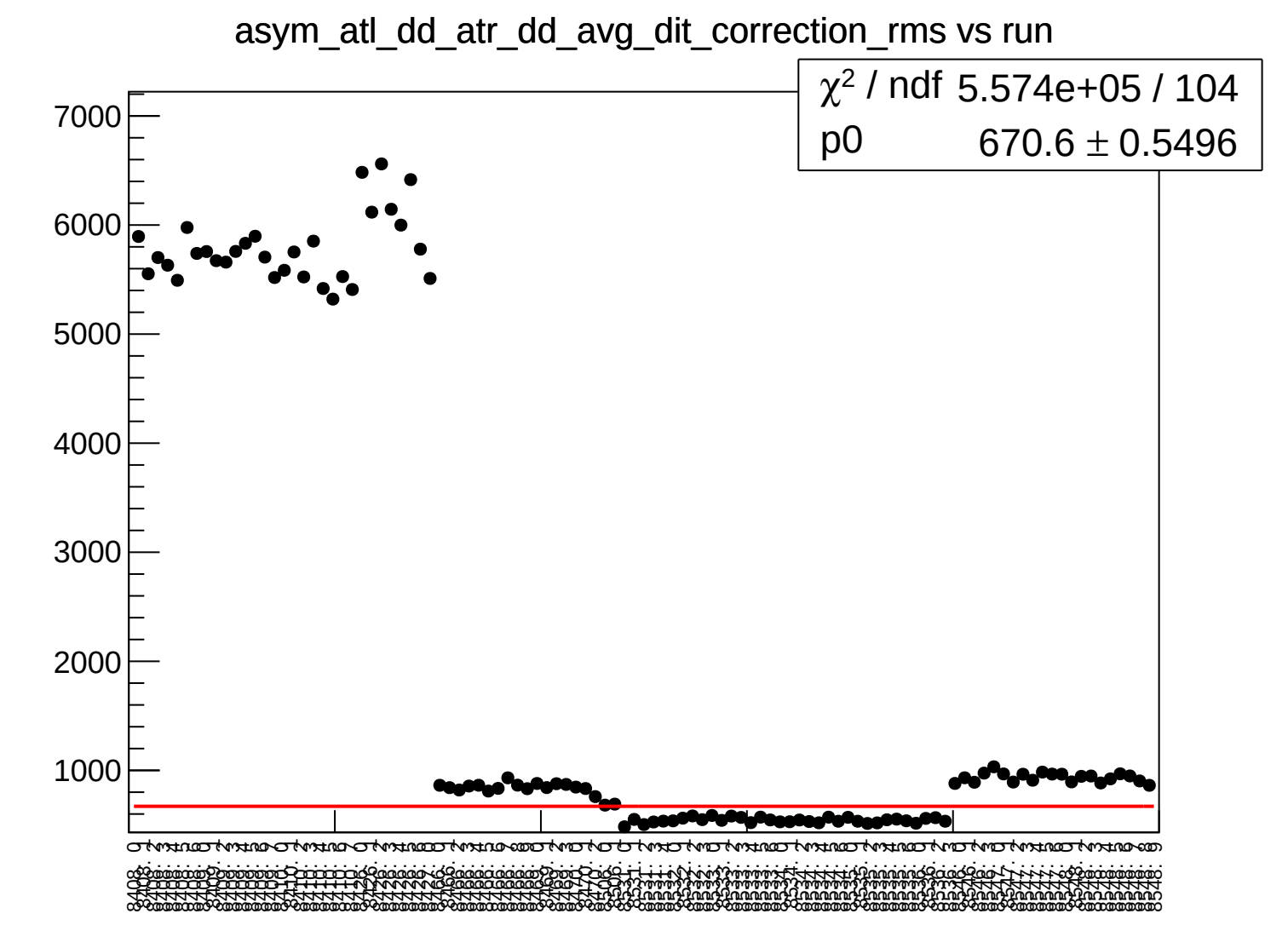

asym_atl_dd_atr_dd_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 5.627e+05 / 104
p0 769 ± 0.6314
7000
6000
5000
4000
3000
2000
1000

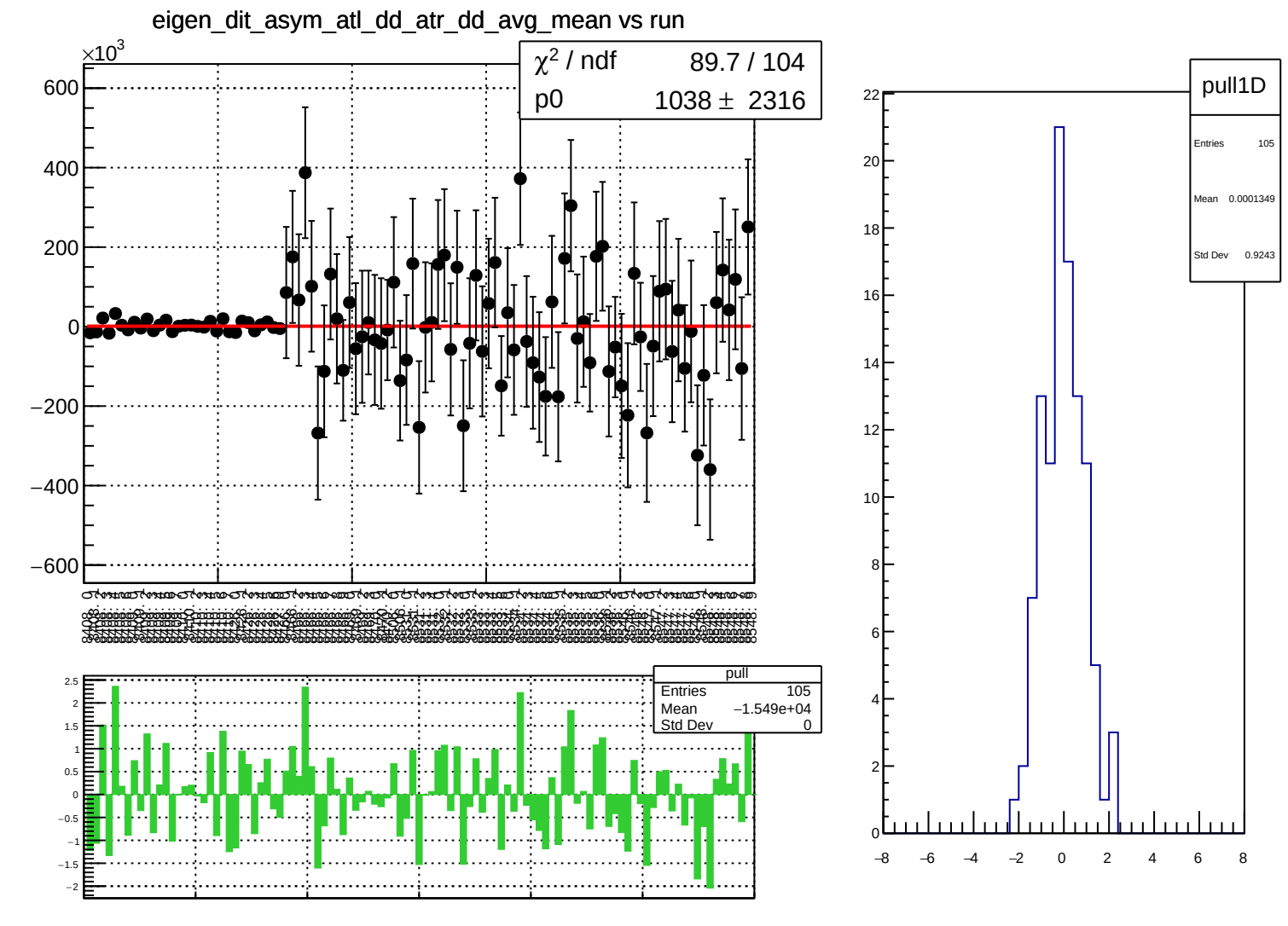

dit_asym_atl_dd_atr_dd_avg_mean vs run
×10^3
600
400
200
0
−200
−400
−600
χ² / ndf 89.7 / 104
p0 1038 ± 2316
pull
Entries 105
Mean −1.548e+04
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

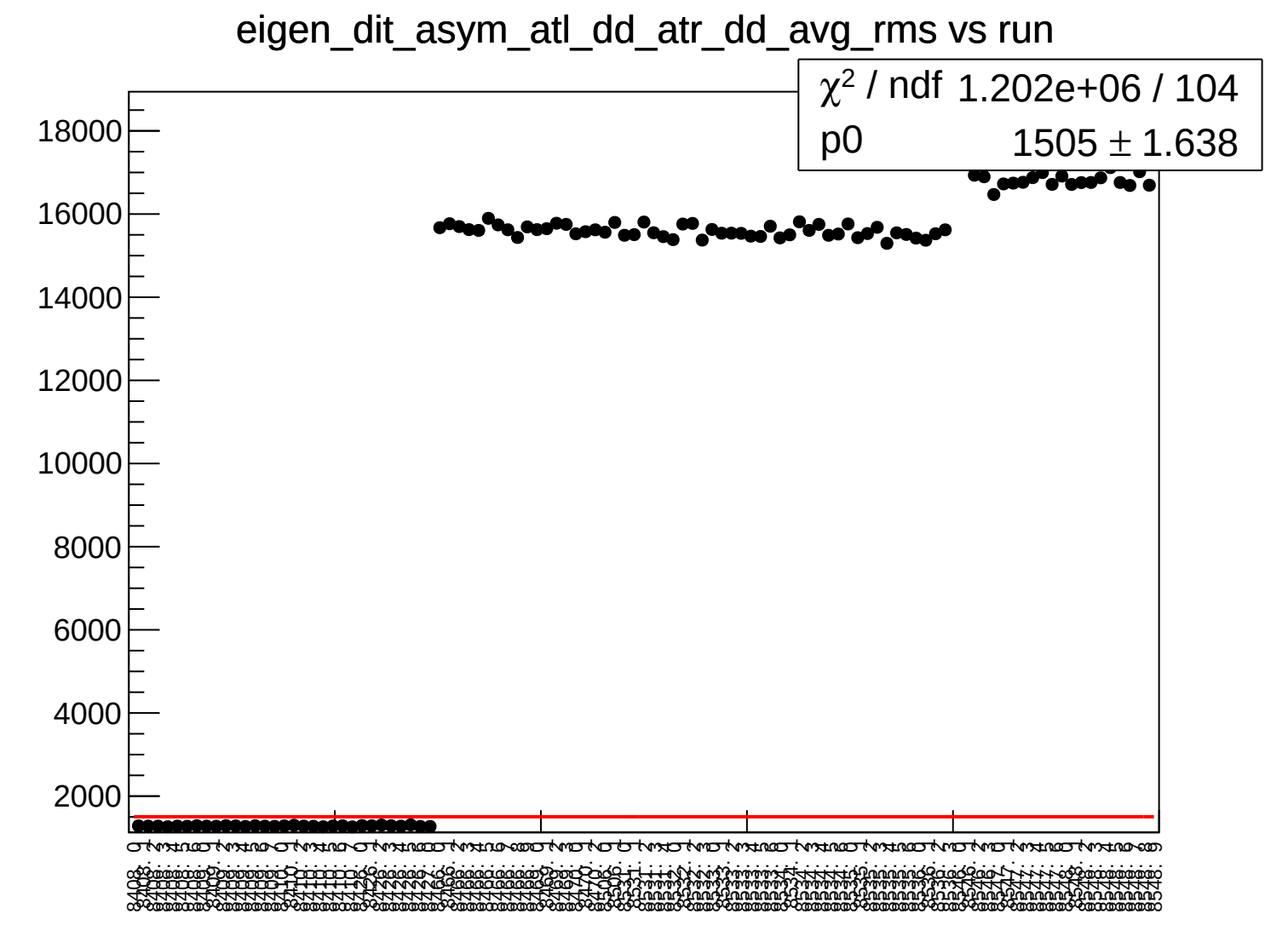

pull1D
Entries 105
Mean 0.0001349
Std Dev 0.9243
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

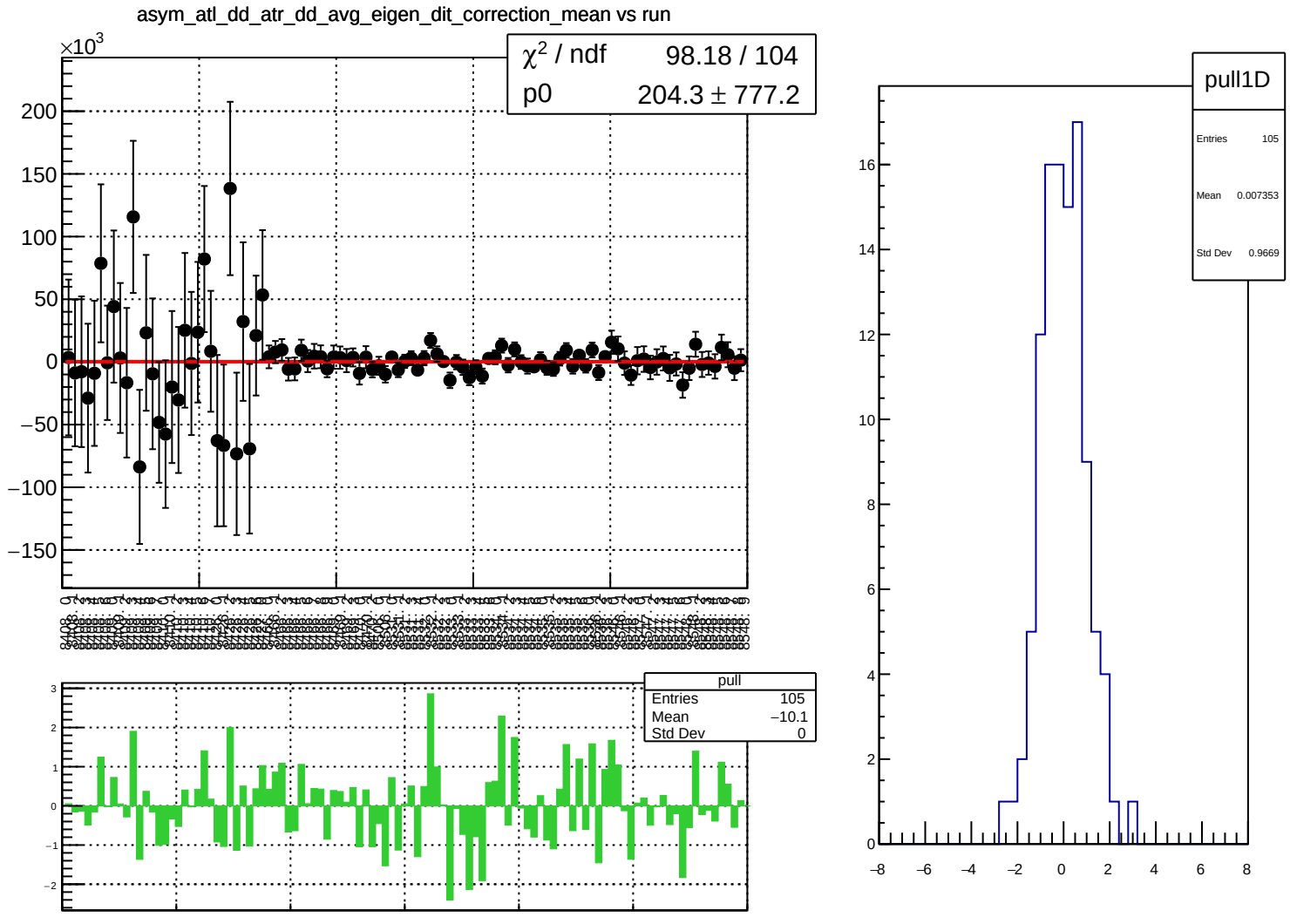

dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 1.202e+06 / 104
p0 1505 ± 1.638
18000
16000
14000
12000
10000
8000
6000
4000
2000

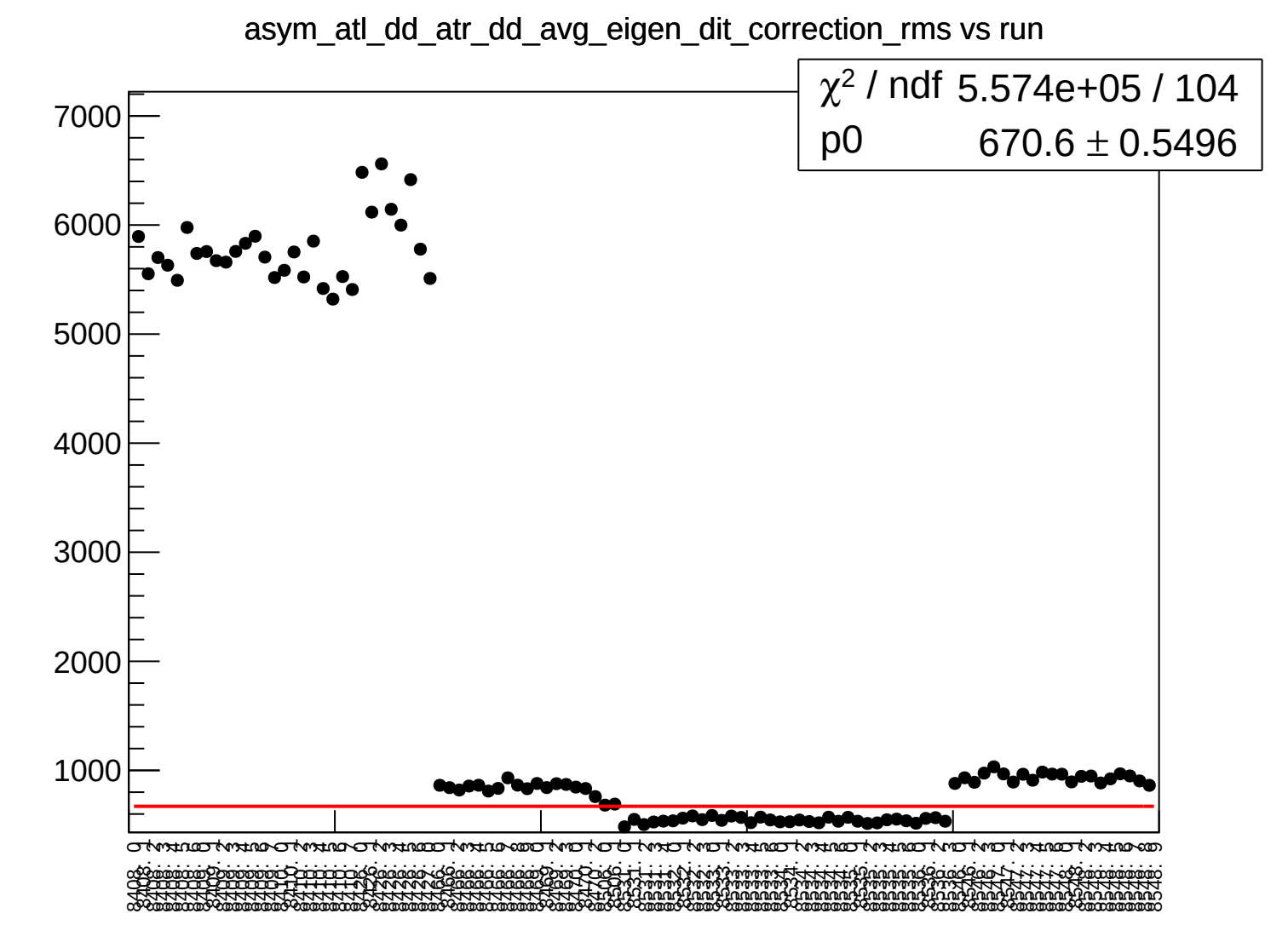

asym_atl_dd_atr_dd_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 98.18 / 104
p0 204.3 ± 777.2
200
150
100
50
0
−50
−100
−150
pull
Entries 105
Mean −10.09
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.007353
Std Dev 0.9669
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

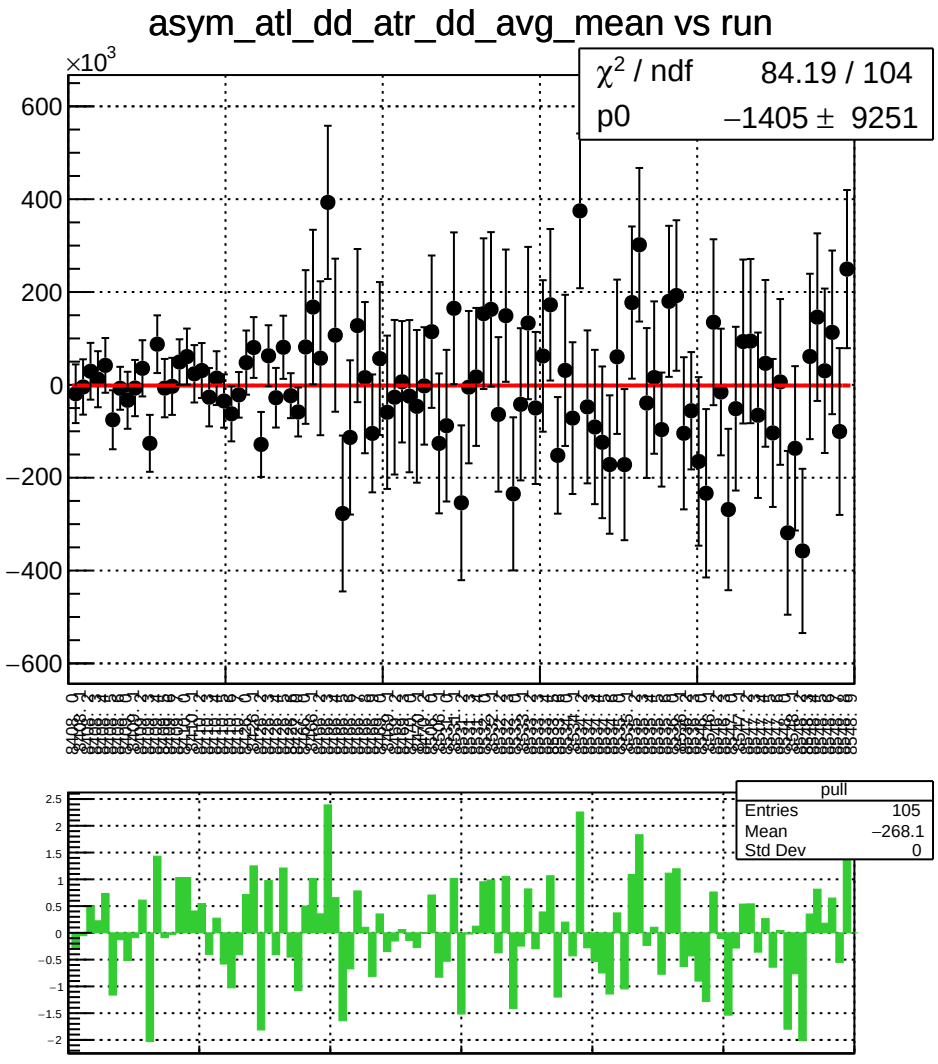

asym_atl_dd_atr_dd_avg_dit_correction_rms vs run
χ² / ndf 5.574e+05 / 104
p0 670.6 ± 0.5496
7000
6000
5000
4000
3000
2000
1000

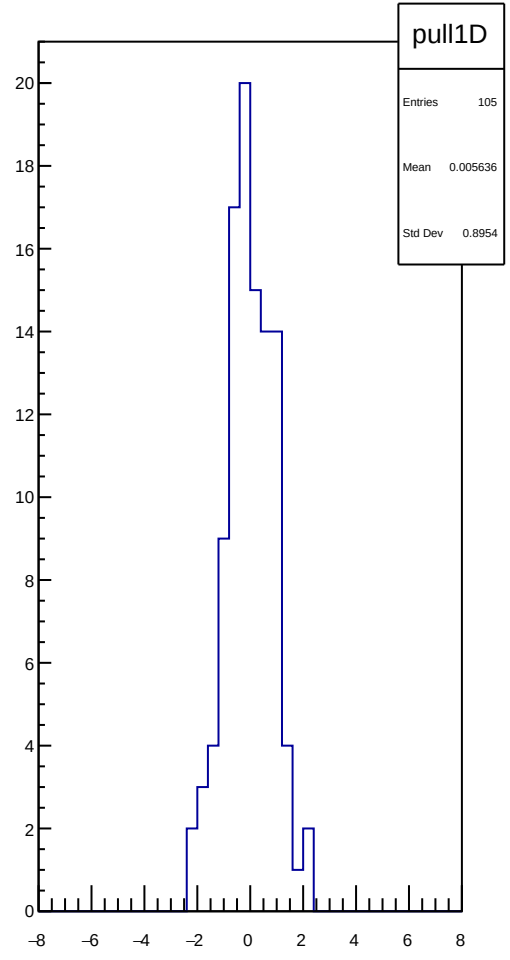

eigen_dit_asym_atl_dd_atr_dd_avg_mean vs run
×10^3
600
400
200
0
−200
−400
−600
χ² / ndf 89.7 / 104
p0 1038 ± 2316
pull
Entries 105
Mean −1.549e+04
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 105
Mean 0.0001349
Std Dev 0.9243
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

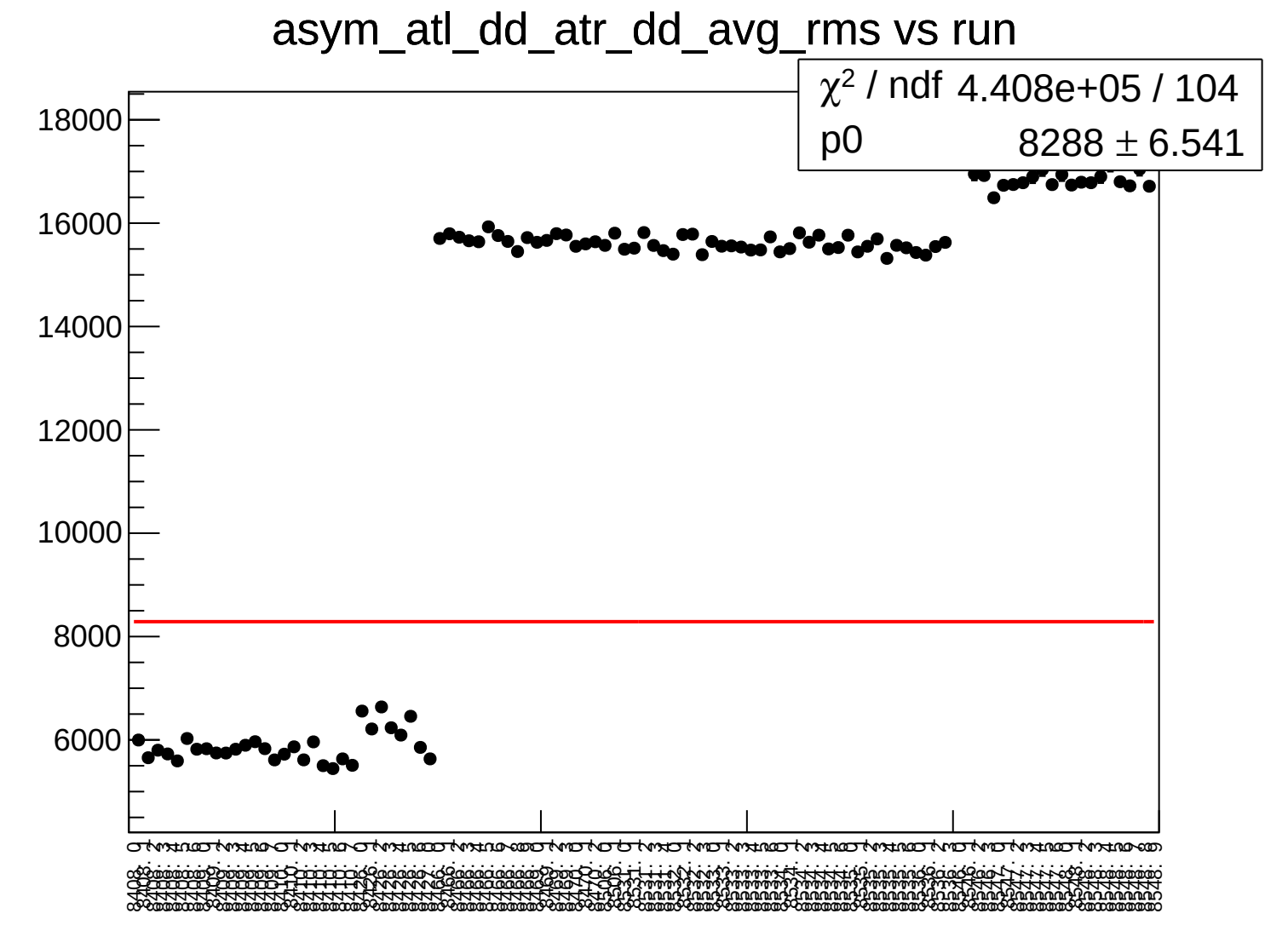

eigen_dit_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 1.202e+06 / 104
p0 1505 ± 1.638
18000
16000
14000
12000
10000
8000
6000
4000
2000

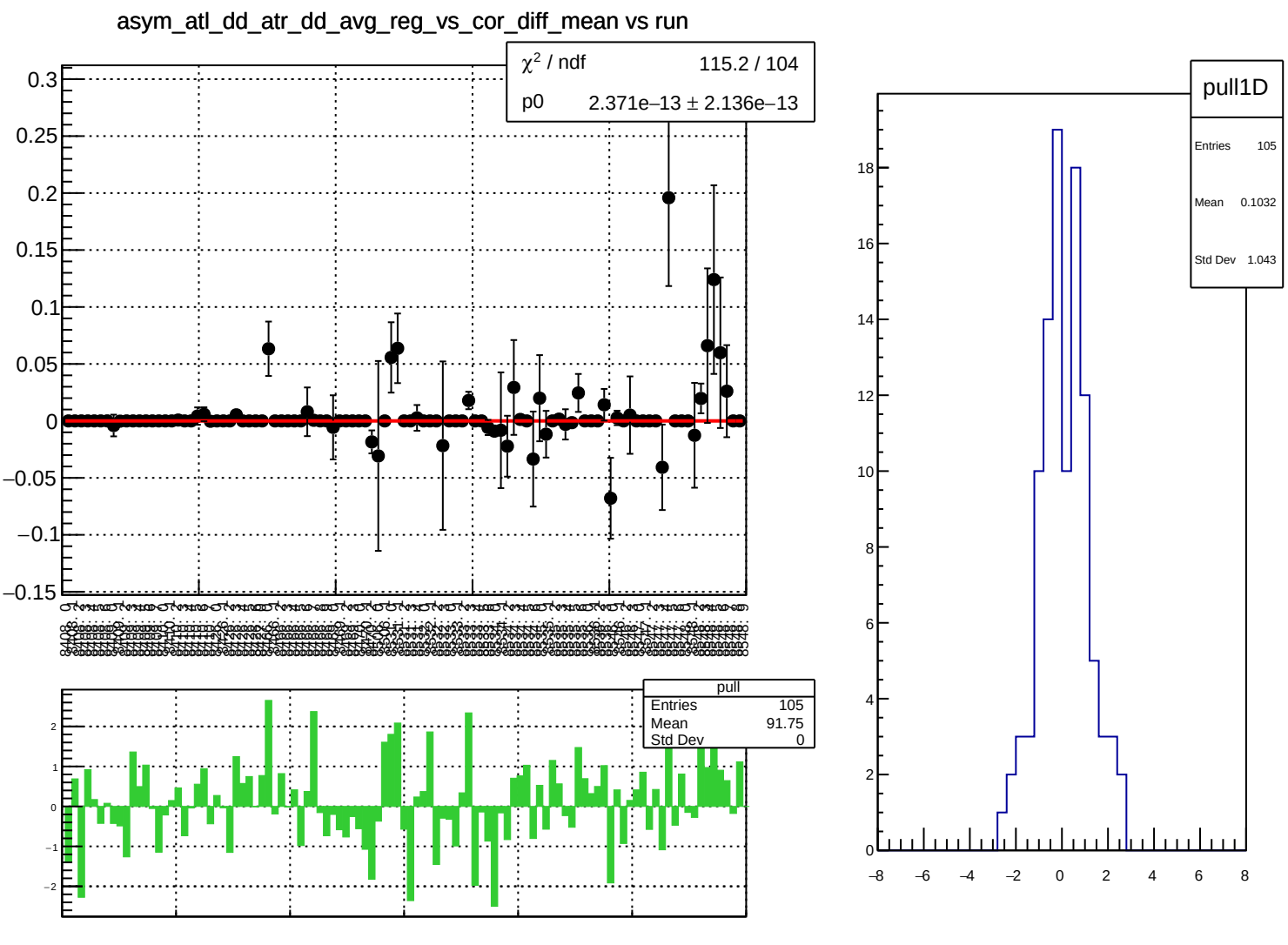

asym_atl_dd_atr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 98.18 / 104
p0 204.3 ± 777.2
200
150
100
50
0
−50
−100
−150
pull
Entries 105
Mean −10.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.007353
Std Dev 0.9669
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

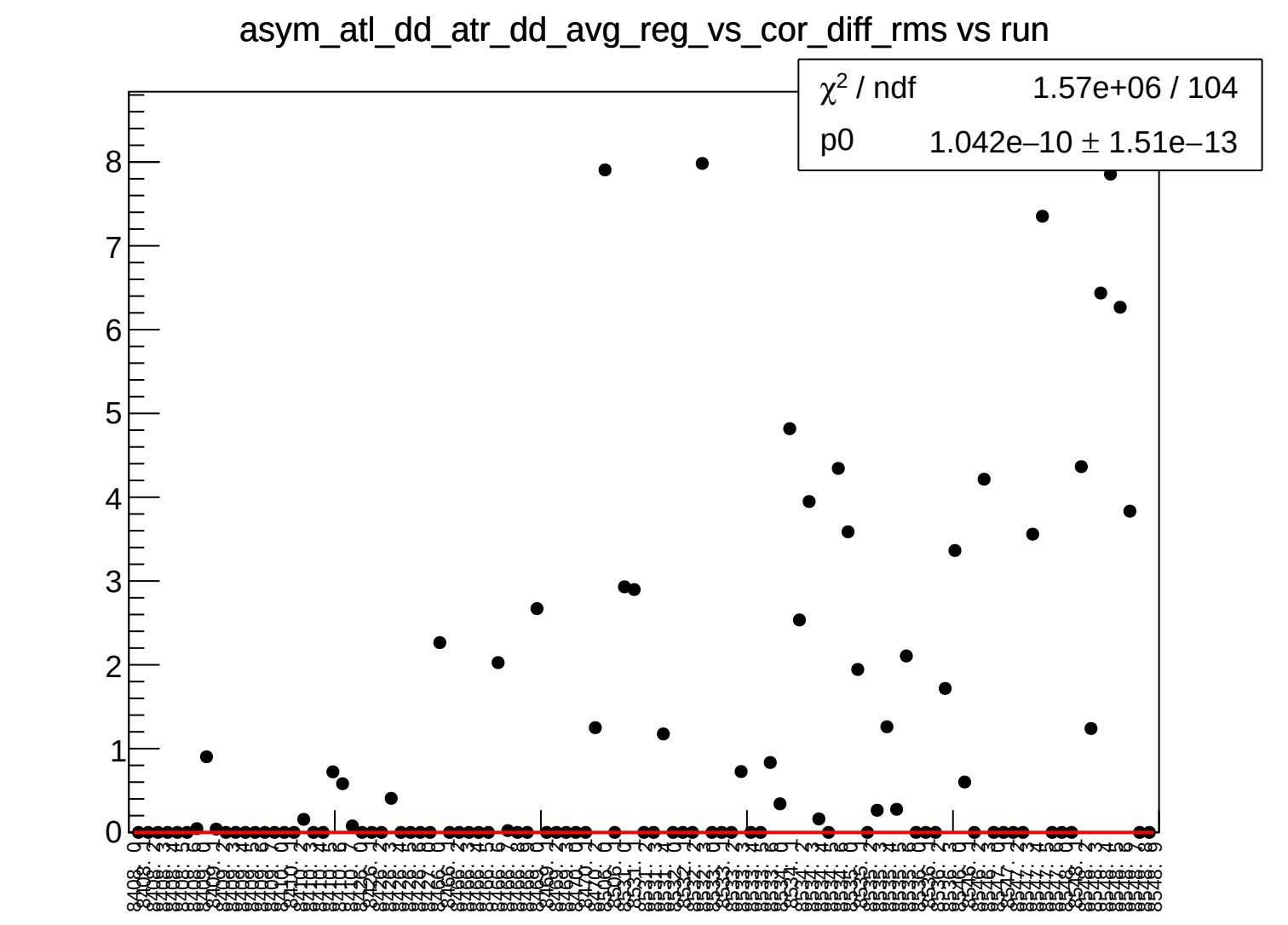

asym_atl_dd_atr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 5.574e+05 / 104
p0 670.6 ± 0.5496
7000
6000
5000
4000
3000
2000
1000

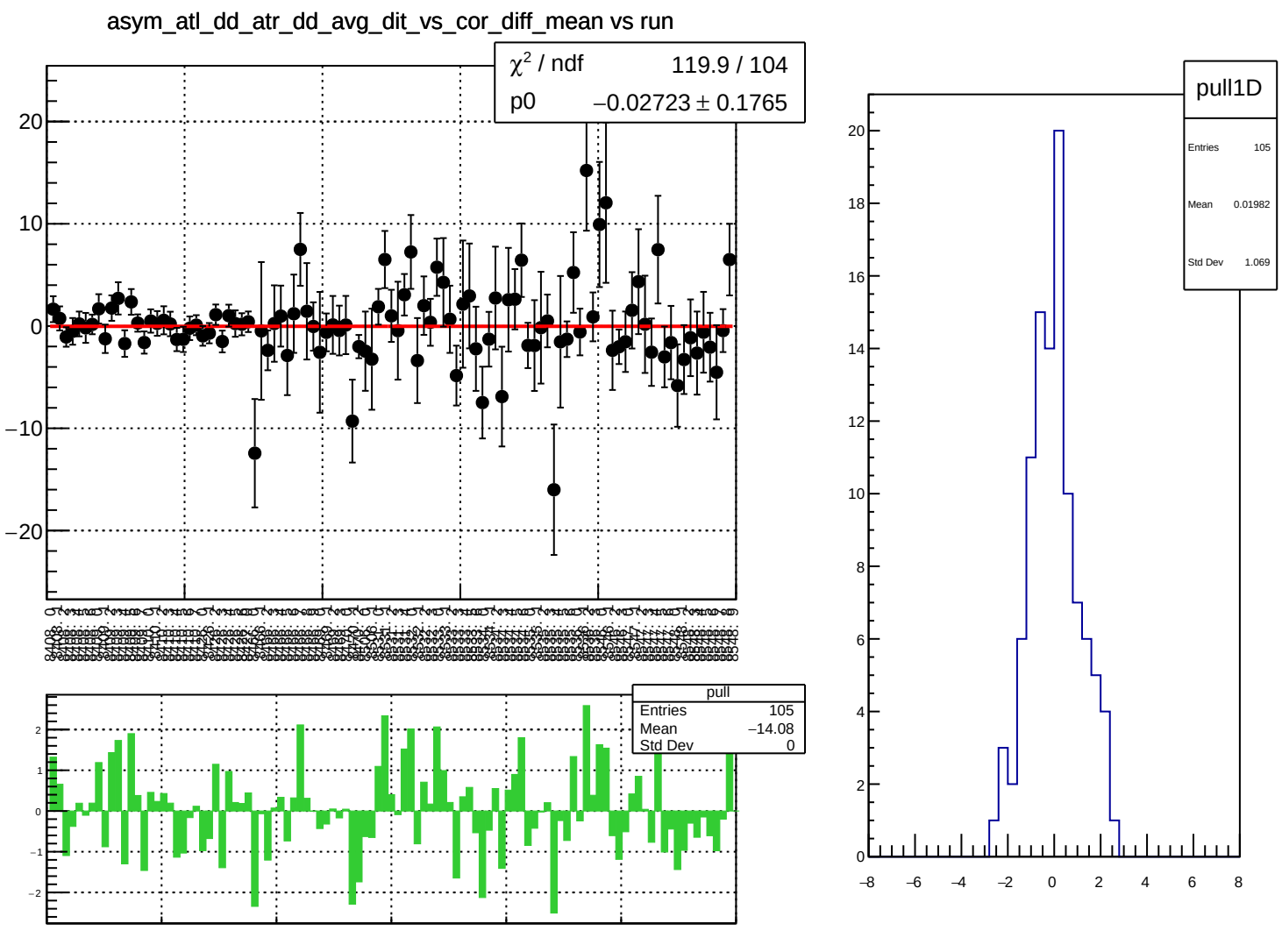

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 84.19 / 104
p0 −1405 ± 9251
600
400
200
0
−200
−400
−600
pull
Entries 105
Mean −268.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

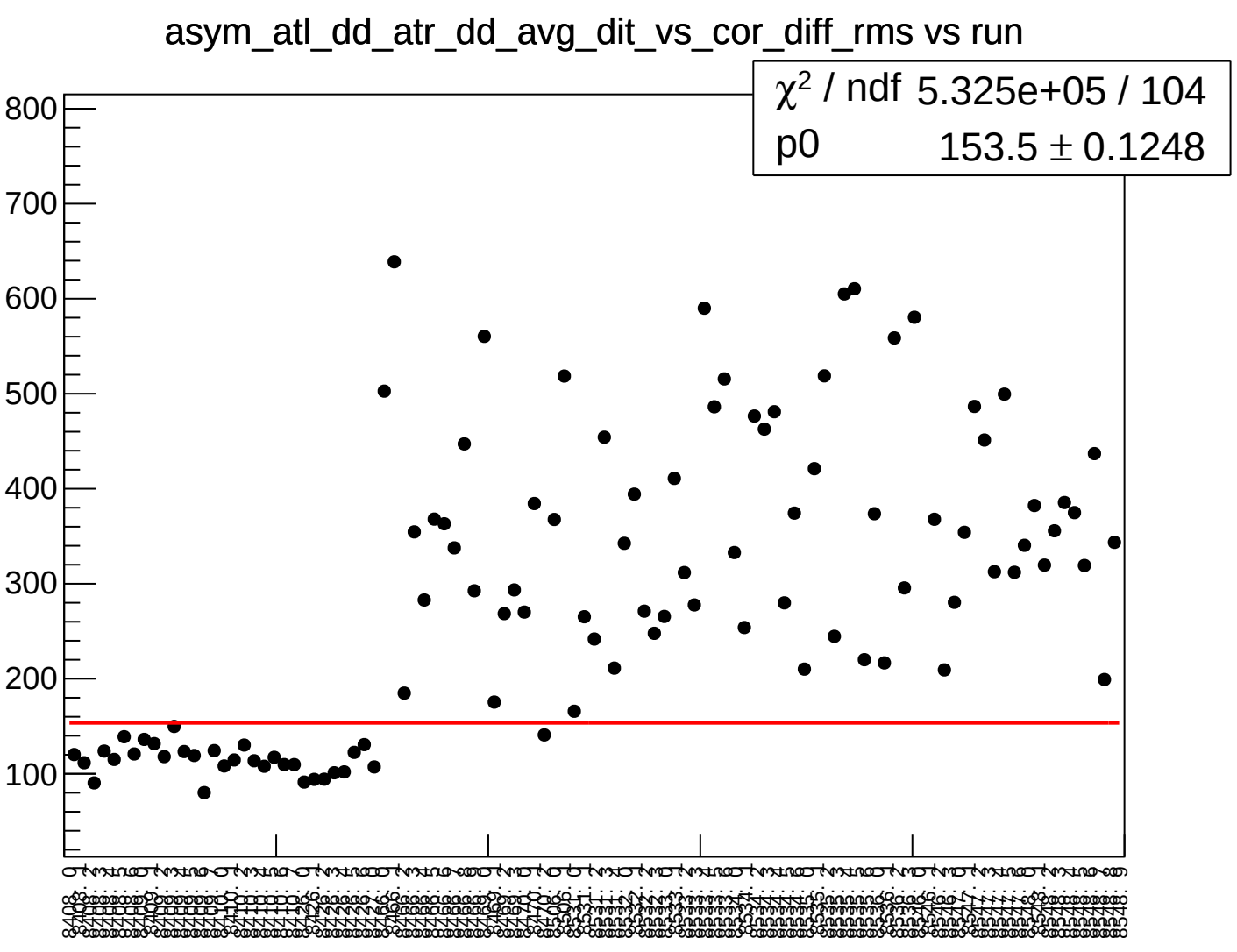

pull1D
Entries 105
Mean 0.005636
Std Dev 0.8954
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

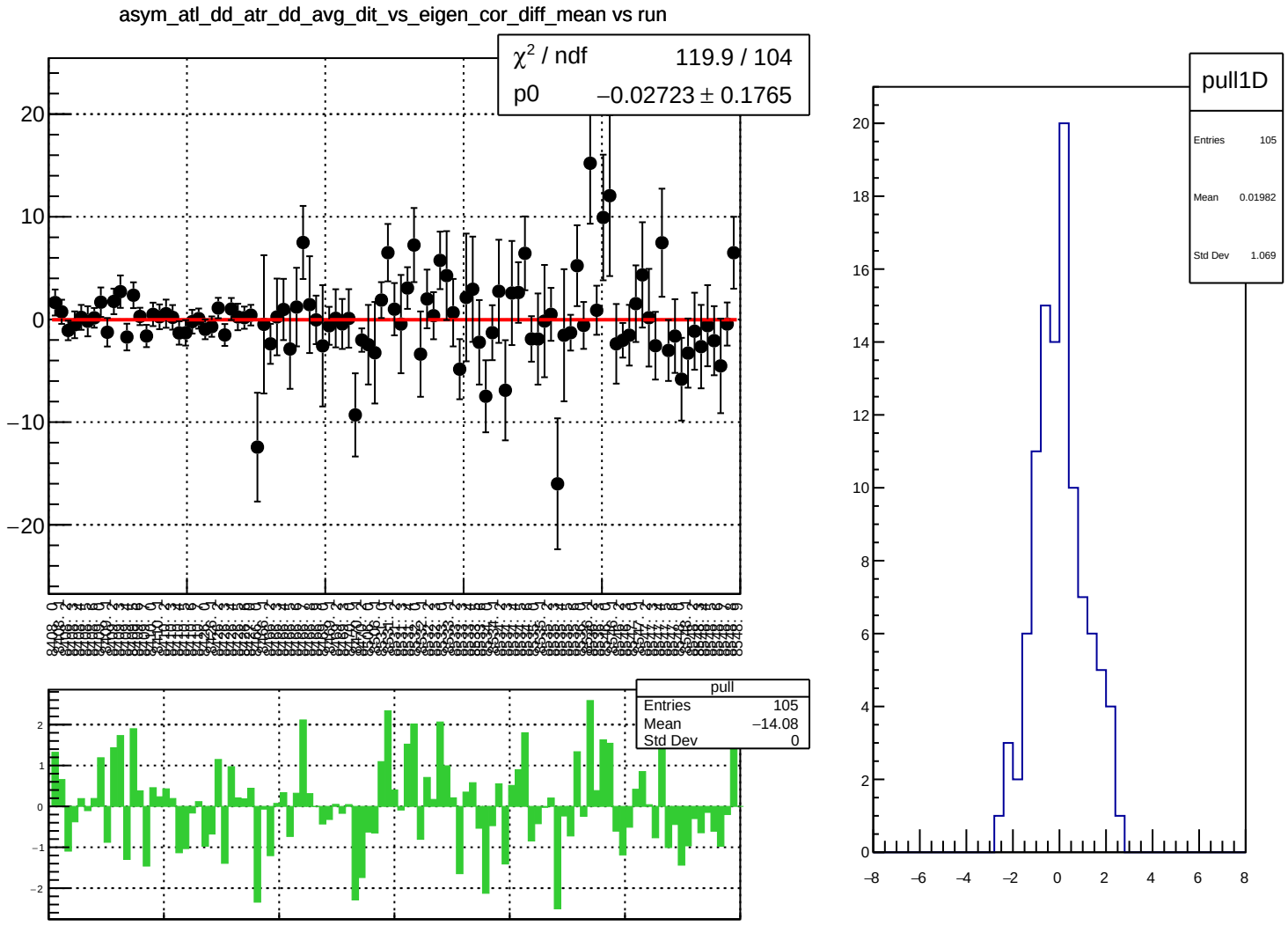

asym_atl_dd_atr_dd_avg_rms vs run
χ^2 / ndf 4.408e+05 / 104
p0 8288 ± 6.541
18000
16000
14000
12000
10000
8000
6000

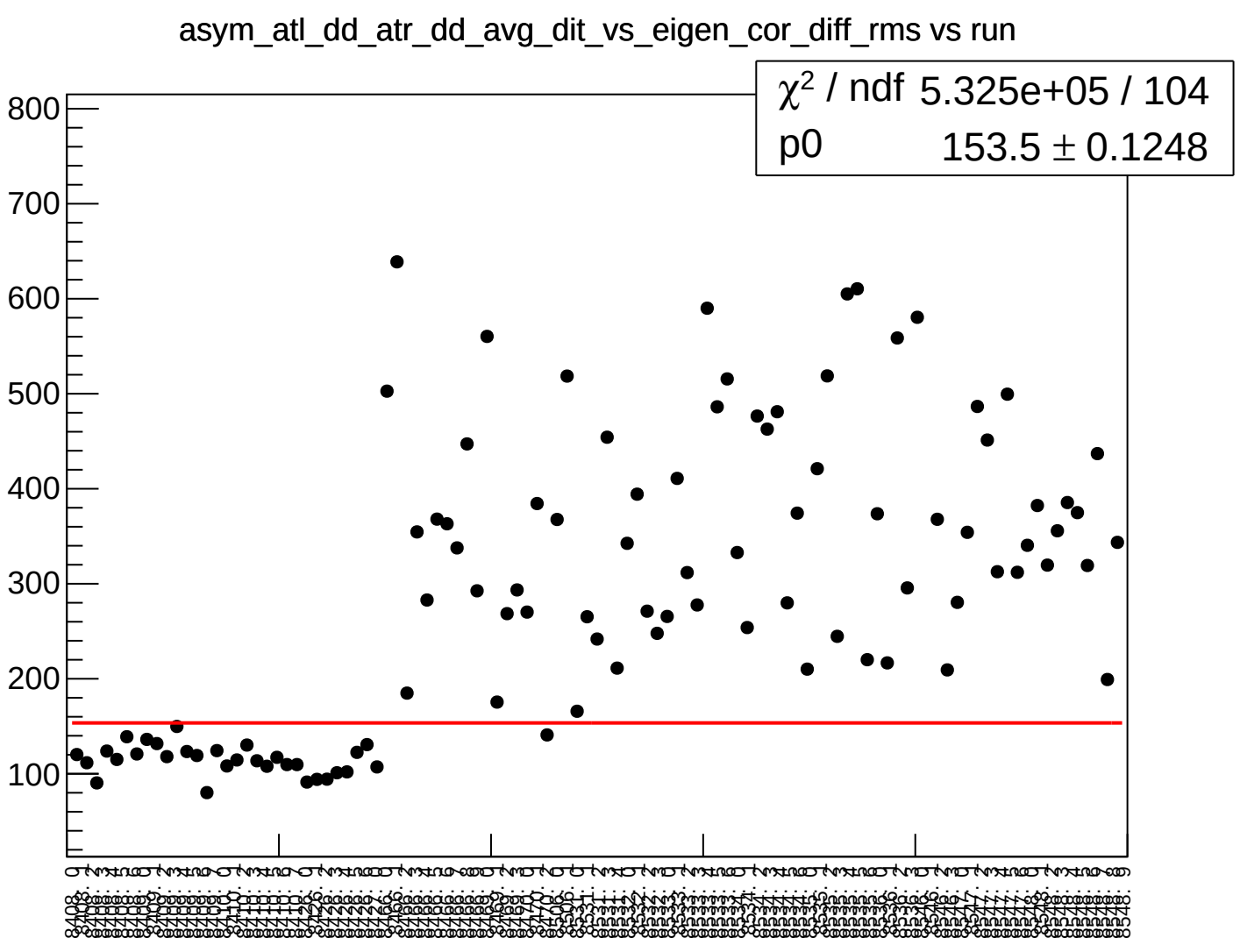

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 115.2 / 104
p0 2.371e−13 ± 2.136e−13
0.3
0.25
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 105
Mean 91.75
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.1032
Std Dev 1.043
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

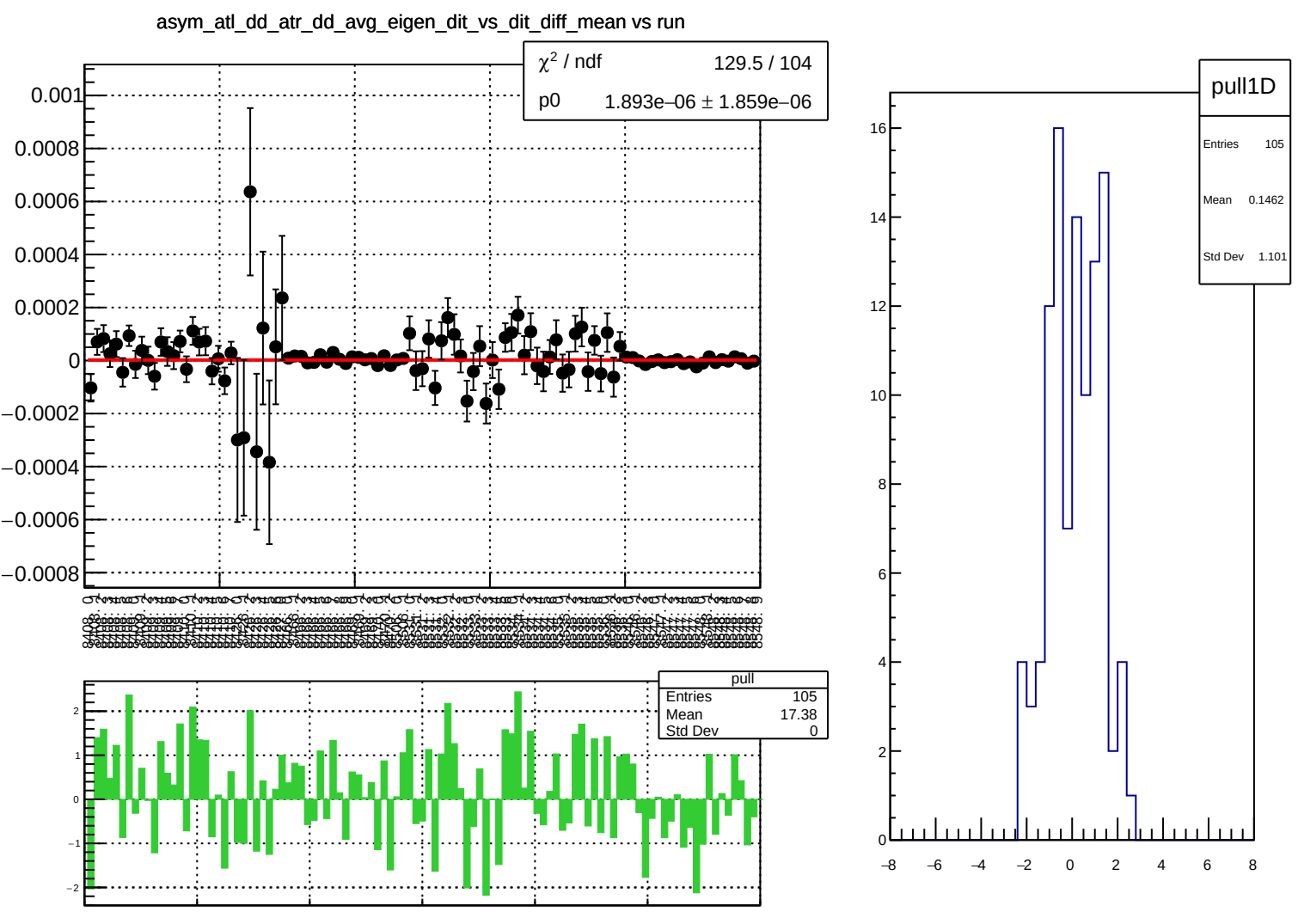

asym_atl_dd_atr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.57e+06 / 104
p0 1.042e−10 ± 1.51e−13
0
1
2
3
4
5
6
7
8

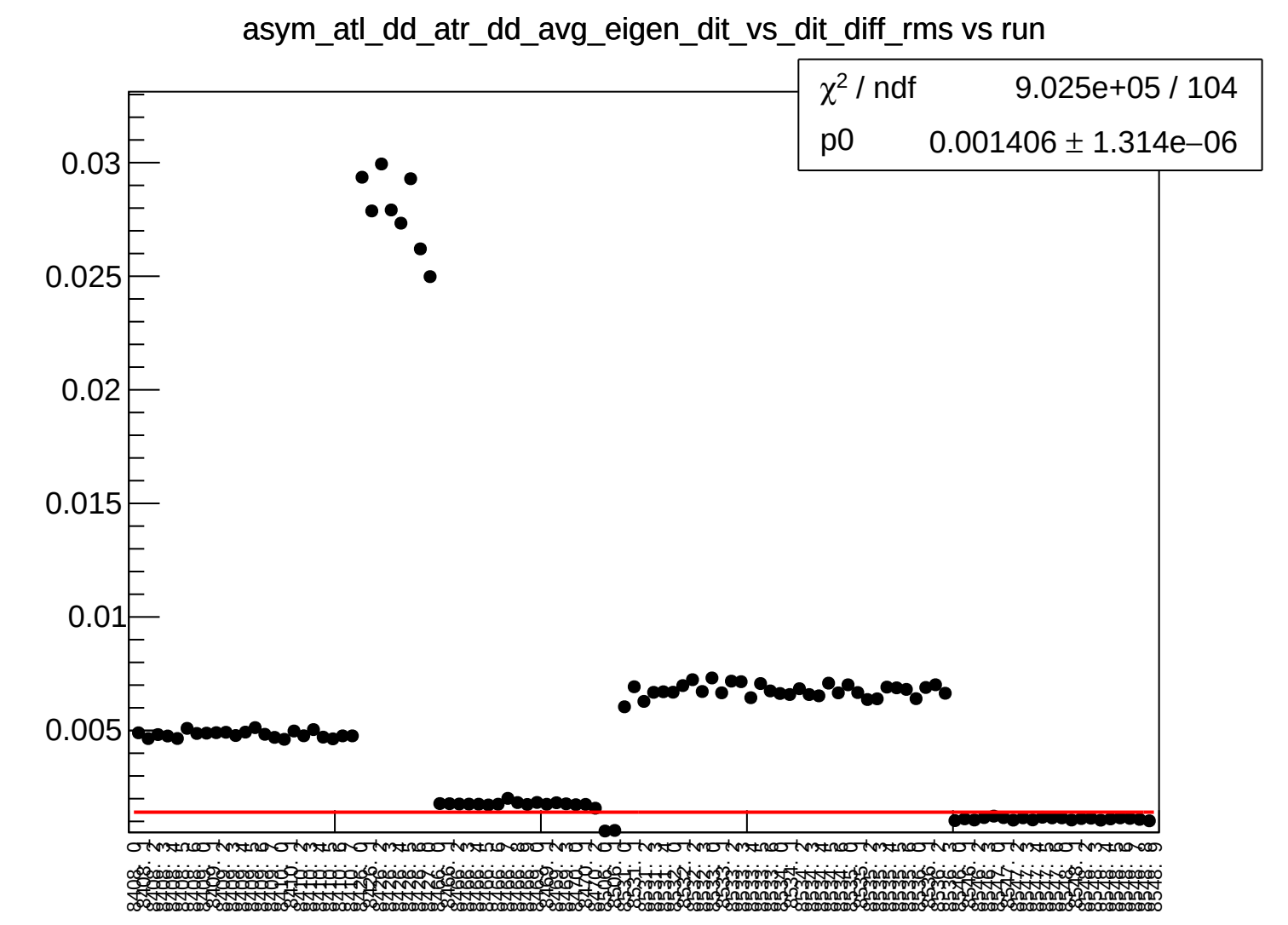

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 119.9 / 104
p0 −0.02723 ± 0.1765
pull
Entries 105
Mean −14.08
Std Dev 0
pull1D
Entries 105
Mean 0.01982
Std Dev 1.069

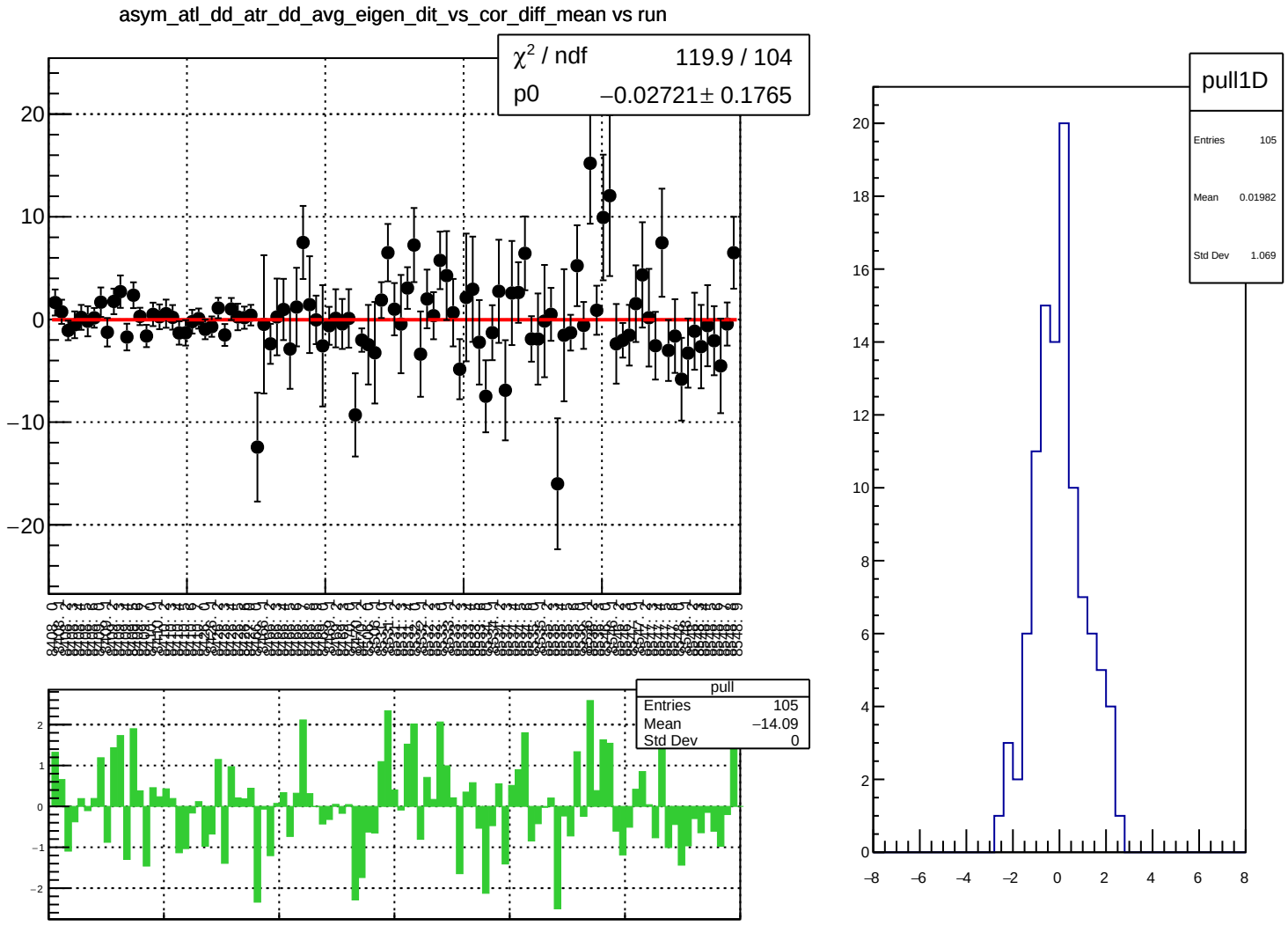

asym_atl_dd_atr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.325e+05 / 104
p0 153.5 ± 0.1248
800
700
600
500
400
300
200
100

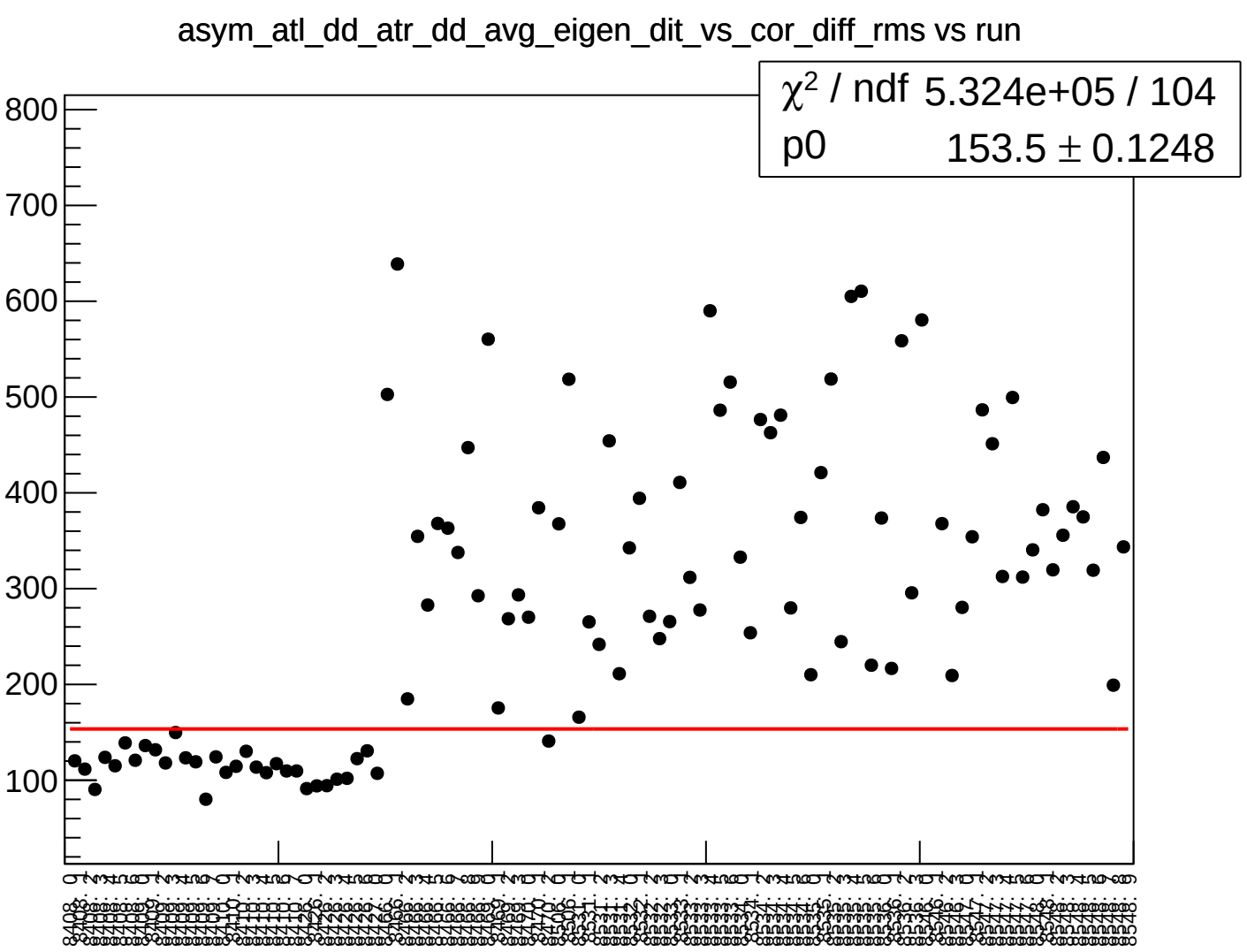

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 119.9 / 104
p0 −0.02723 ± 0.1765
20
10
0
−10
−20
pull
Entries 105
Mean −14.08
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.01982
Std Dev 1.069
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

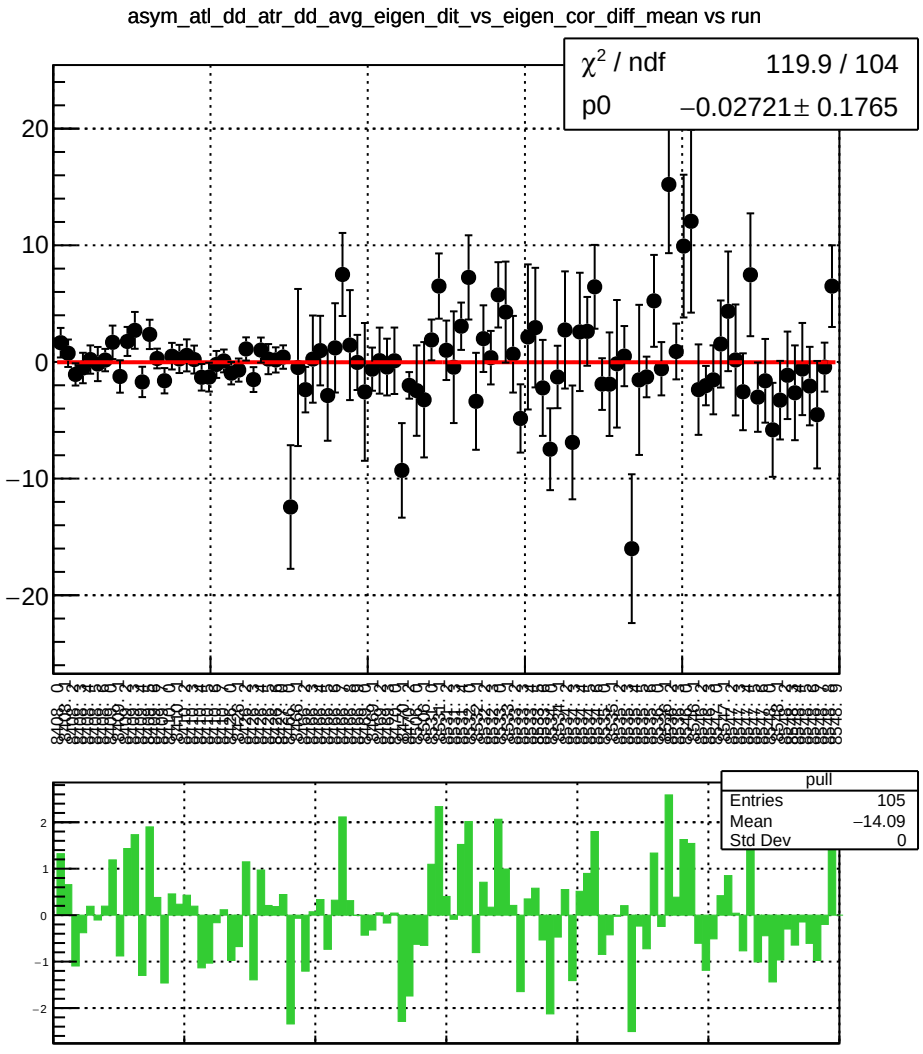

asym_atl_dd_atr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.325e+05 / 104
p0 153.5 ± 0.1248
800
700
600
500
400
300
200
100

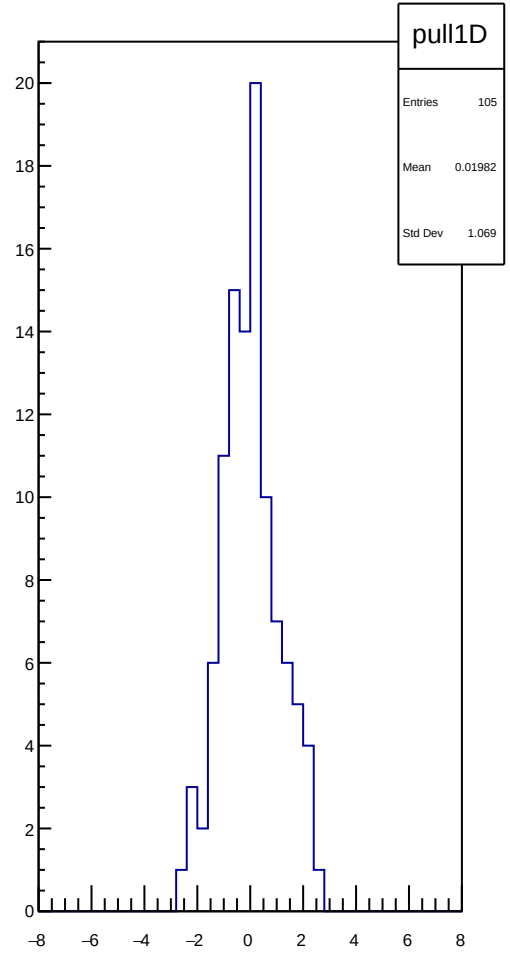

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 129.5 / 104
p0 1.893e−06 ± 1.859e−06
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
pull
Entries 105
Mean 17.38
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.1462
Std Dev 1.101
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

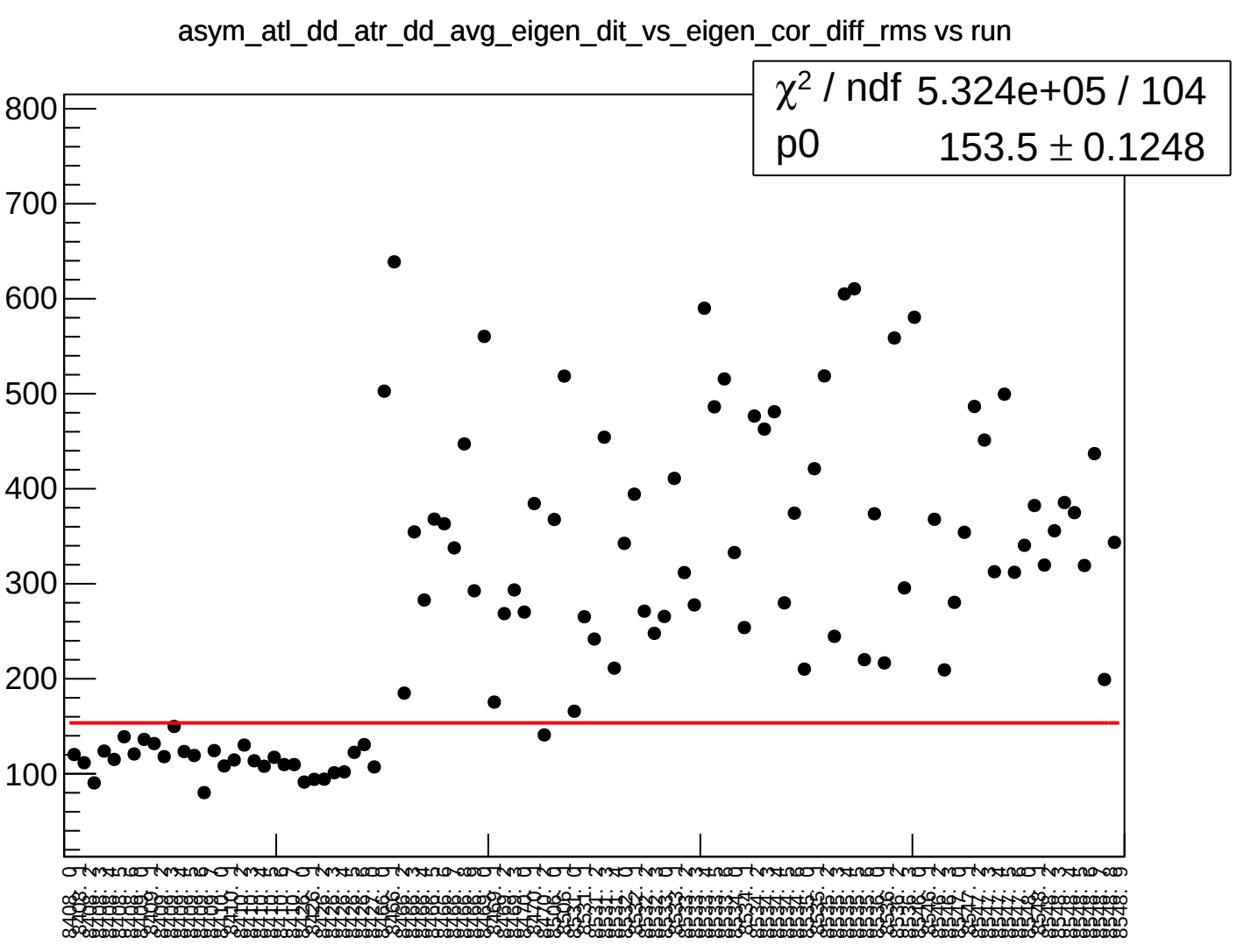

asym_atl_dd_atr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.025e+05 / 104
p0 0.001406 ± 1.314e−06
0.03
0.025
0.02
0.015
0.01
0.005

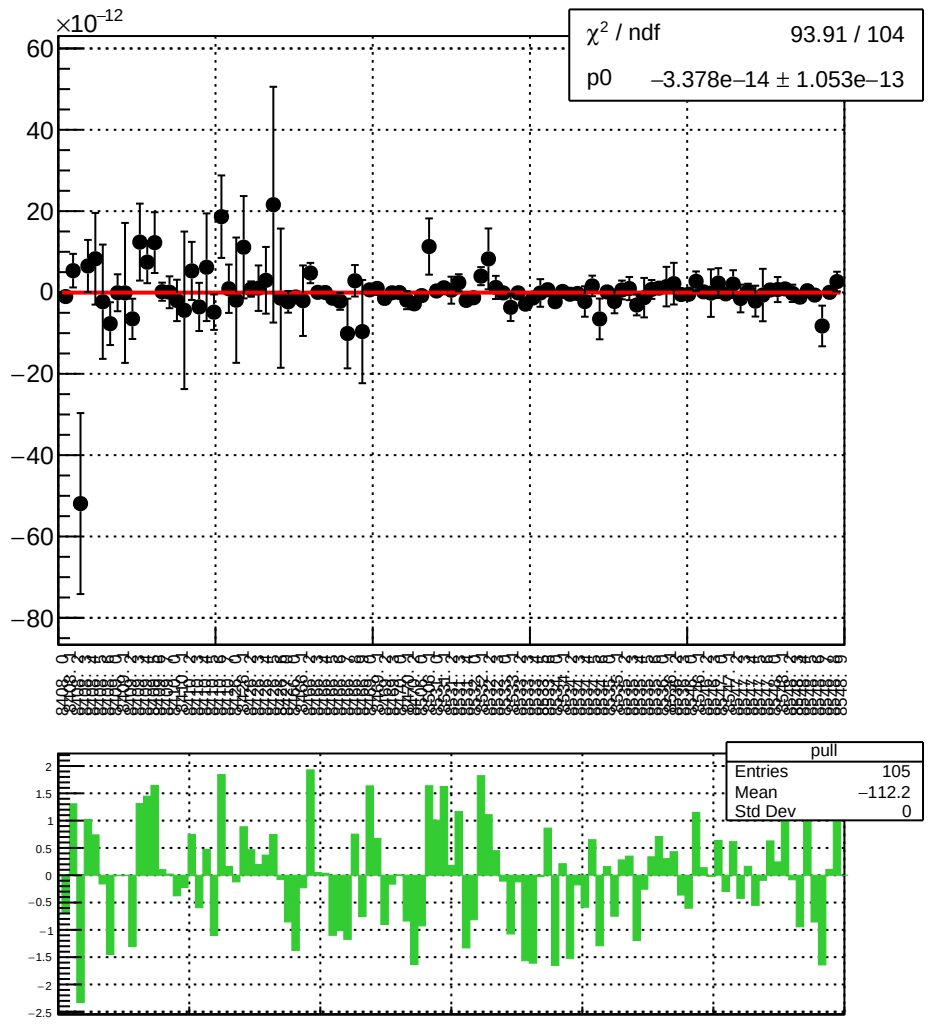

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 119.9 / 104
p0 −0.02721 ± 0.1765
pull
Entries 105
Mean −14.09
Std Dev 0
pull1D
Entries 105
Mean 0.01982
Std Dev 1.069

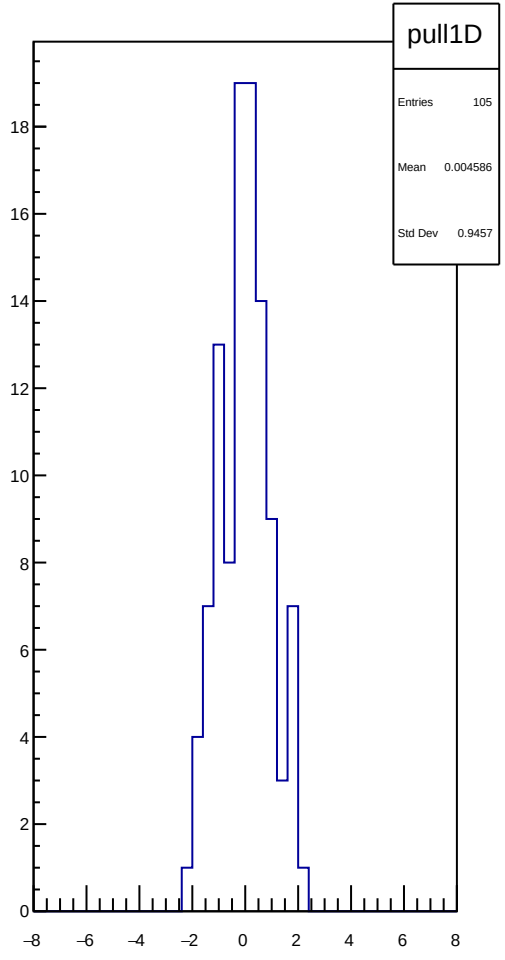

asym_atl_dd_atr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.324e+05 / 104
p0 153.5 ± 0.1248
800
700
600
500
400
300
200
100

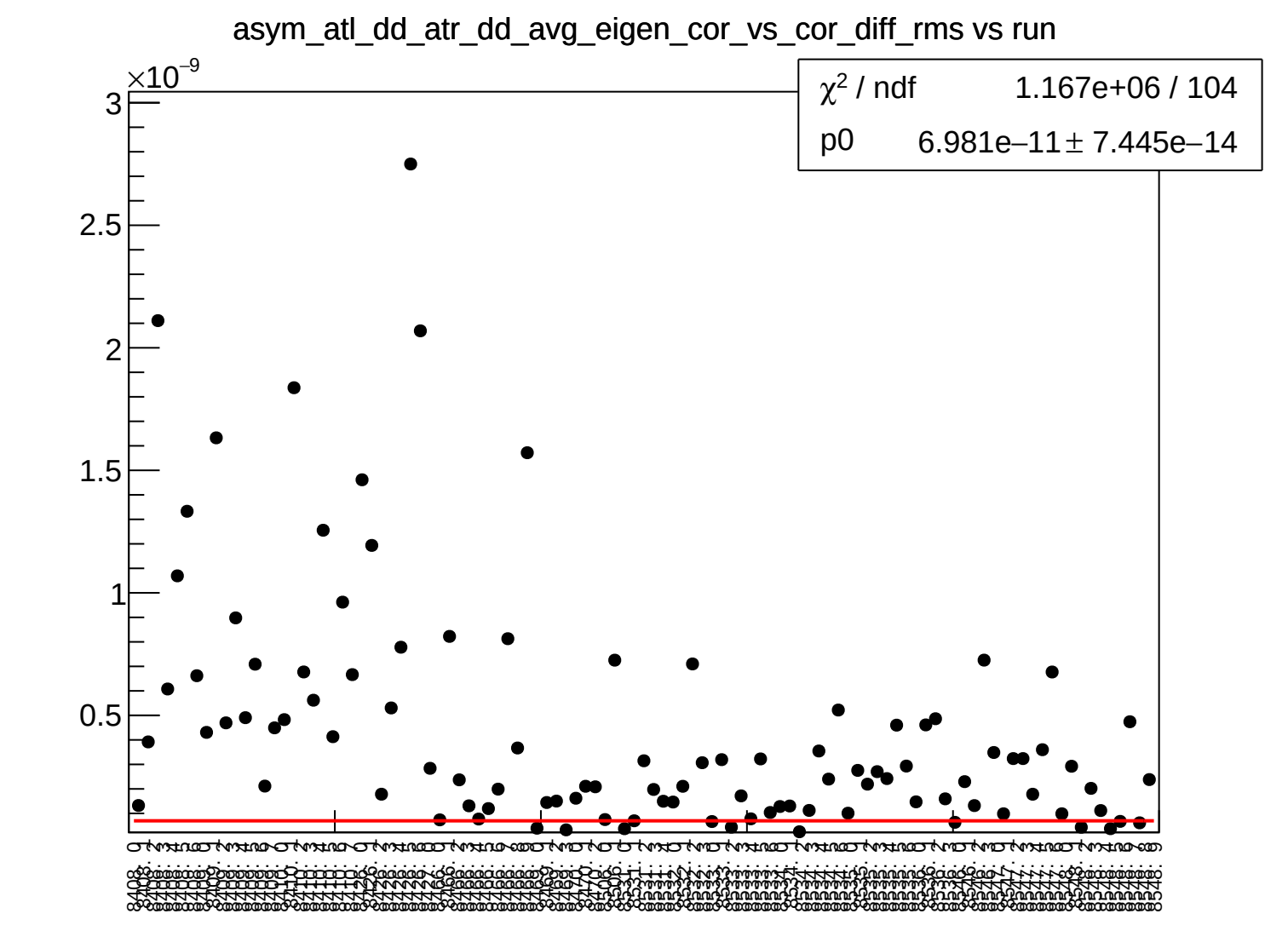

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 119.9 / 104
p0 −0.02721 ± 0.1765
pull
Entries 105
Mean −14.09
Std Dev 0

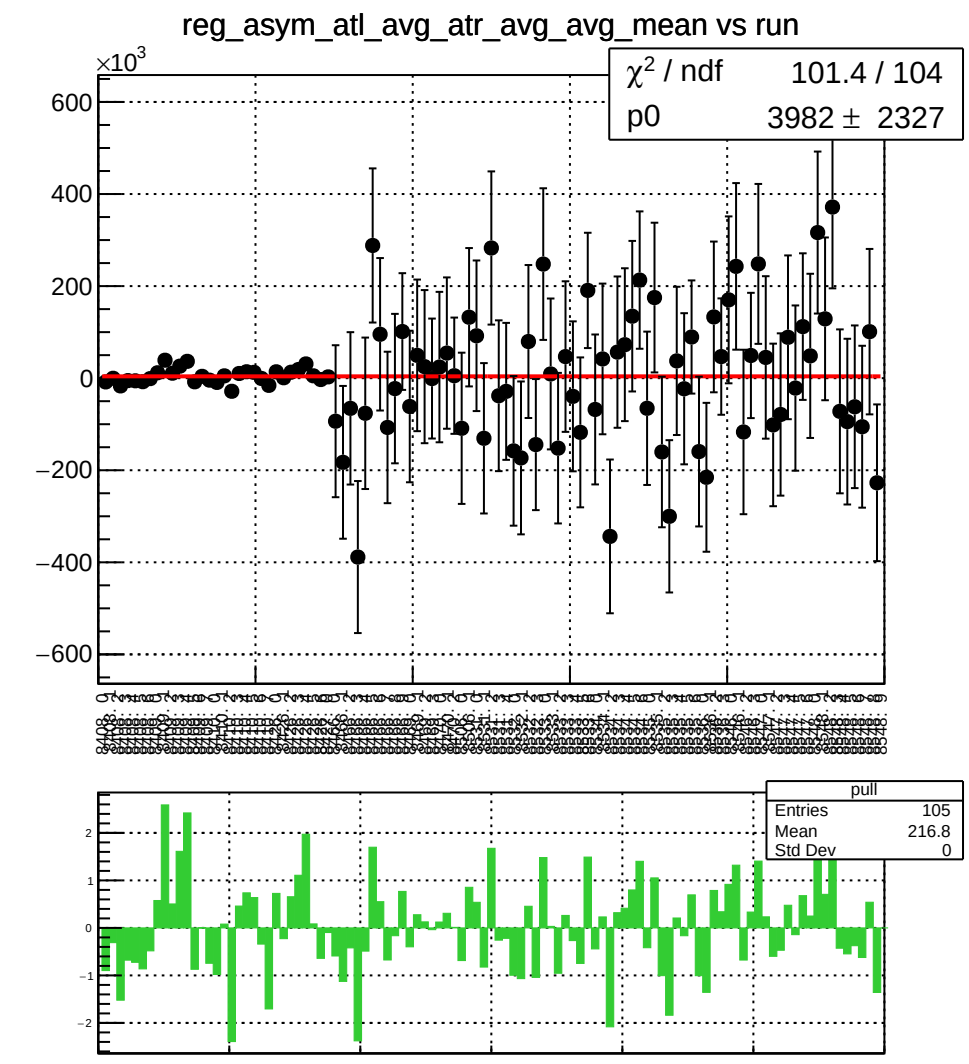

pull1D
Entries 105
Mean 0.01982
Std Dev 1.069

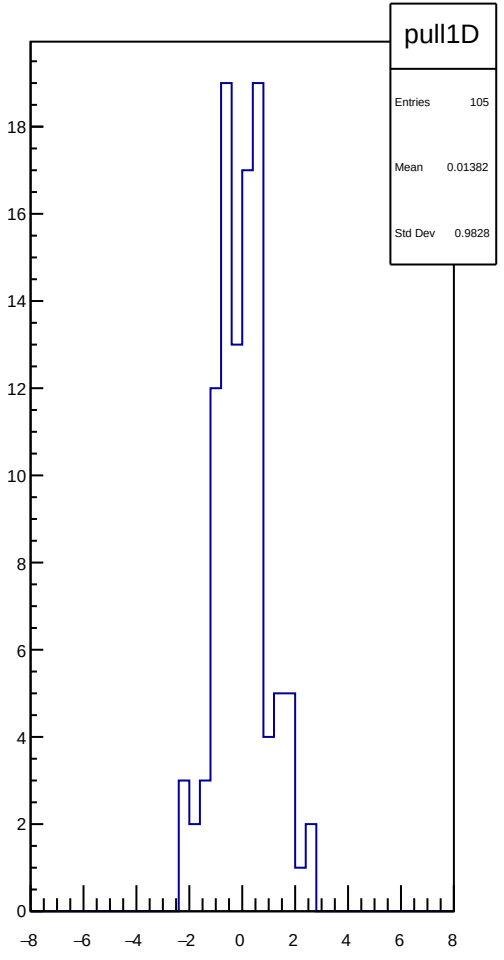

asym_atl_dd_atr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.324e+05 / 104
p0 153.5 ± 0.1248
800
700
600
500
400
300
200
100

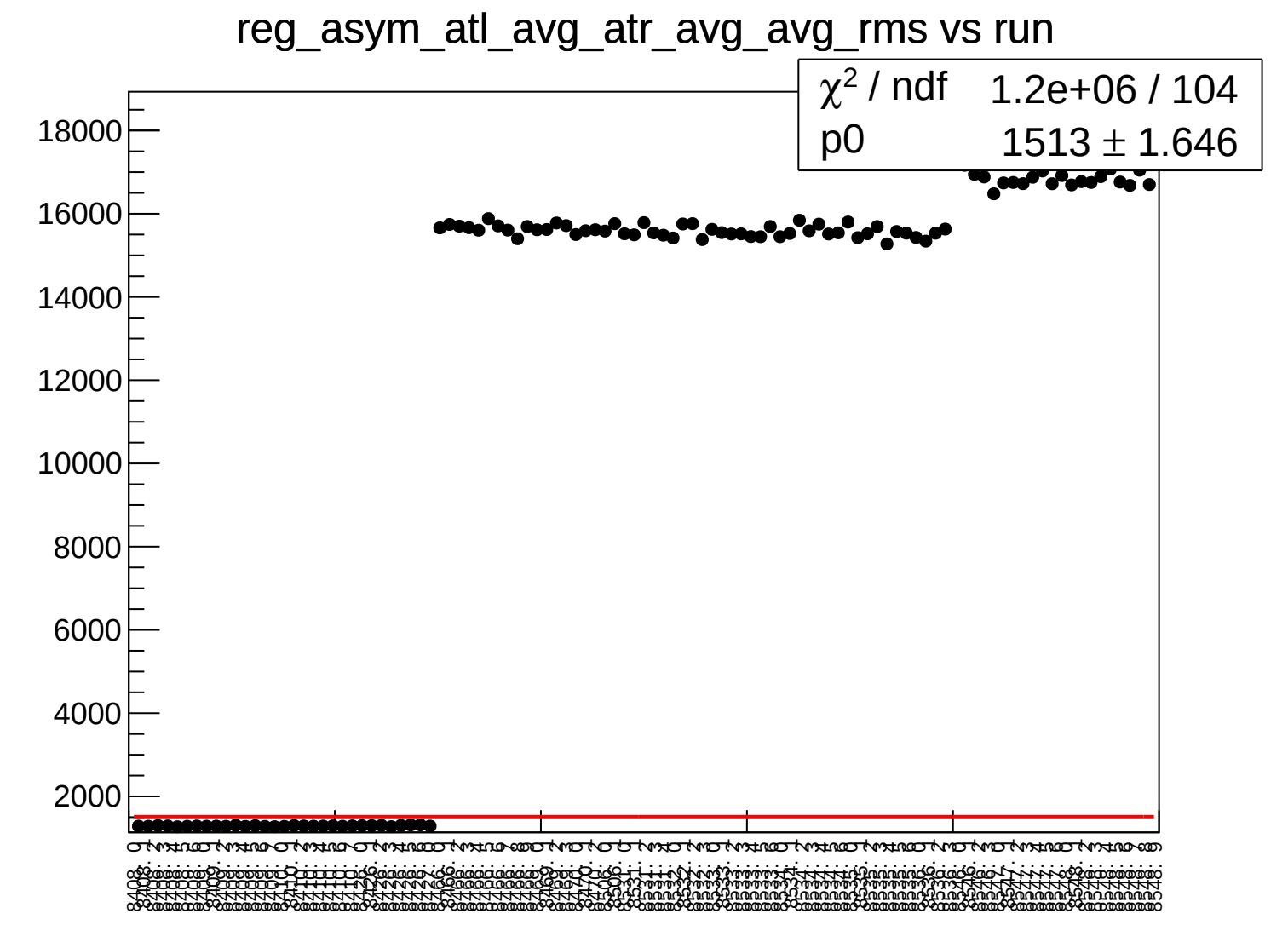

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 93.91 / 104
p0 −3.378e−14 ± 1.053e−13
pull
Entries 105
Mean −112.2
Std Dev 0

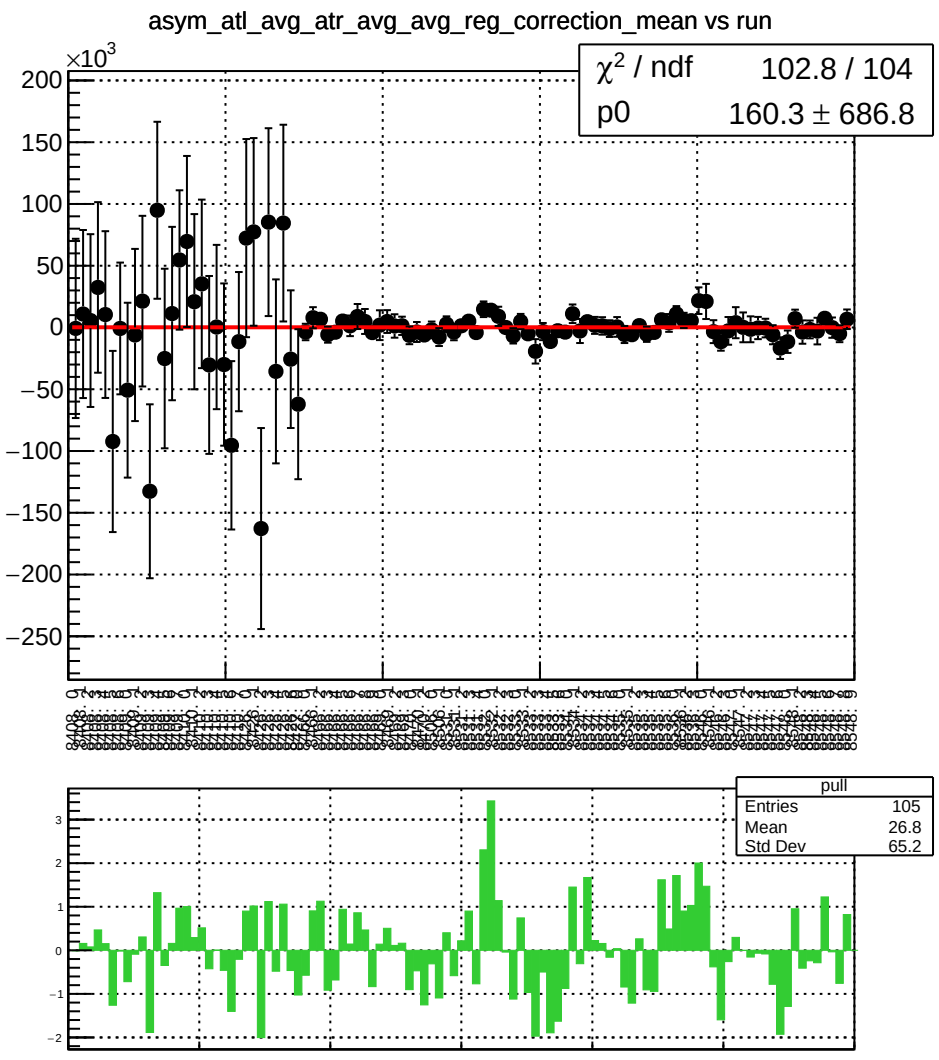

pull1D
Entries 105
Mean 0.004586
Std Dev 0.9457

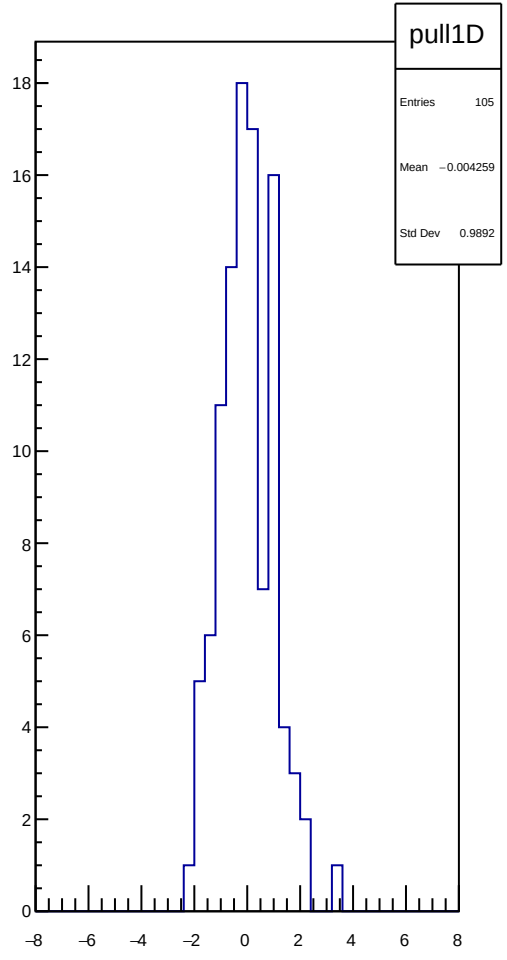

asym_atl_dd_atr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
3
2.5
2
1.5
1
0.5
χ² / ndf 1.167e+06 / 104
p0 6.981e−11 ± 7.445e−14

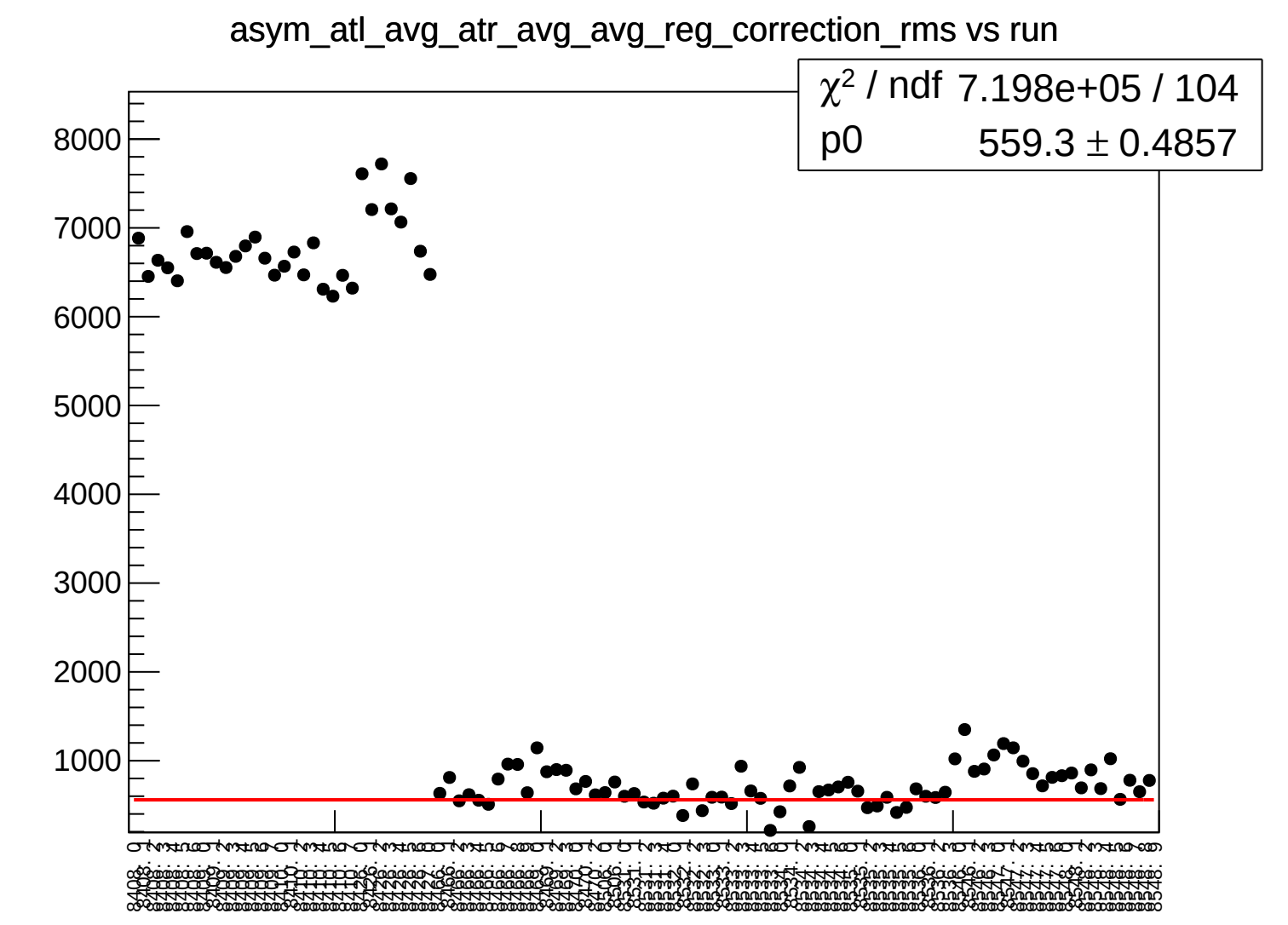

reg_asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 101.4 / 104
p0 3982 ± 2327
pull
Entries 105
Mean 216.8
Std Dev 0

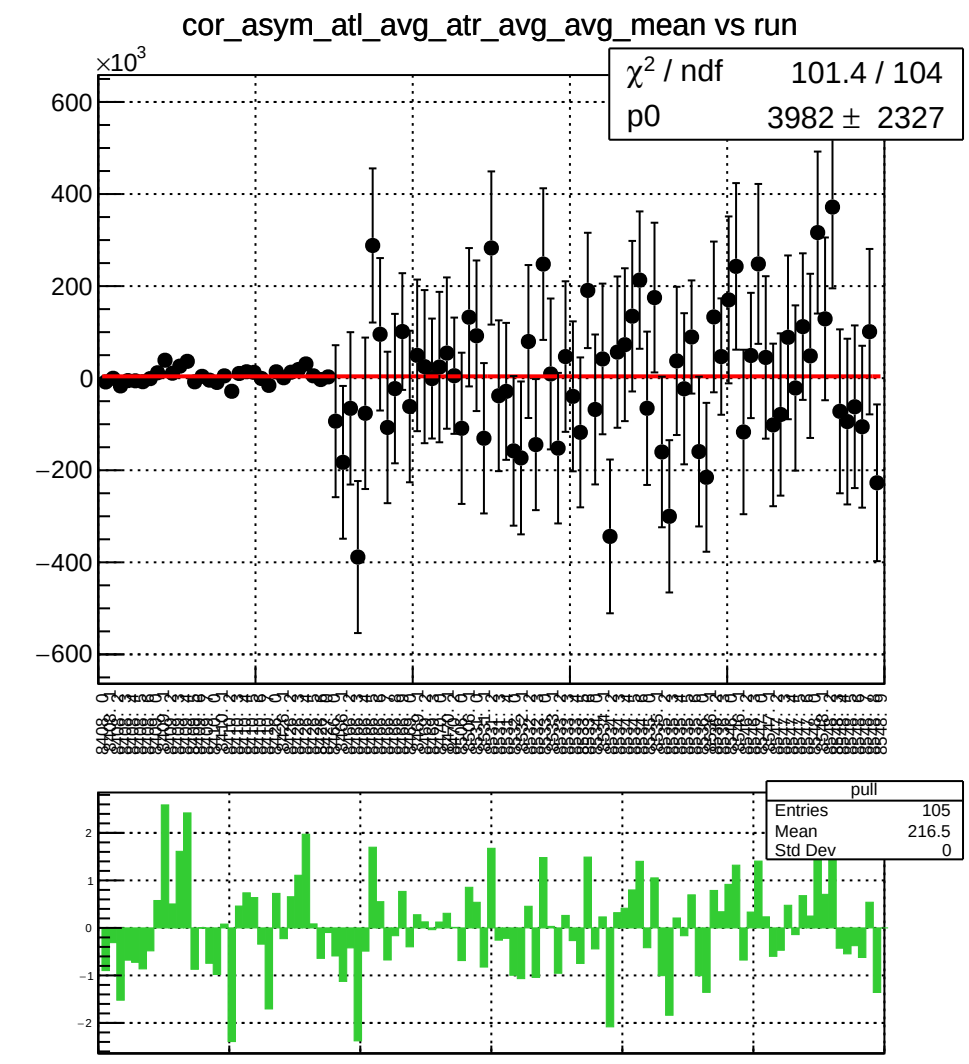

pull1D
Entries 105
Mean 0.01382
Std Dev 0.9828

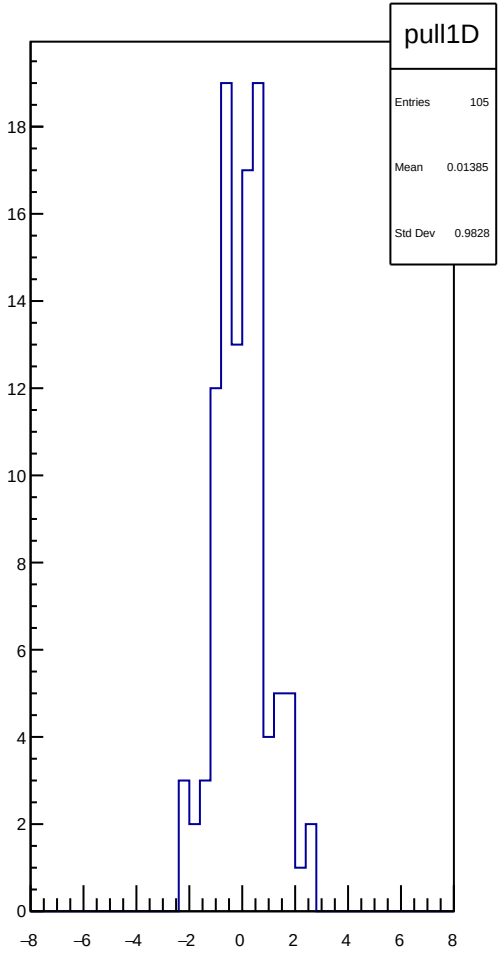

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 1.2e+06 / 104
p0 1513 ± 1.646
18000
16000
14000
12000
10000
8000
6000
4000
2000

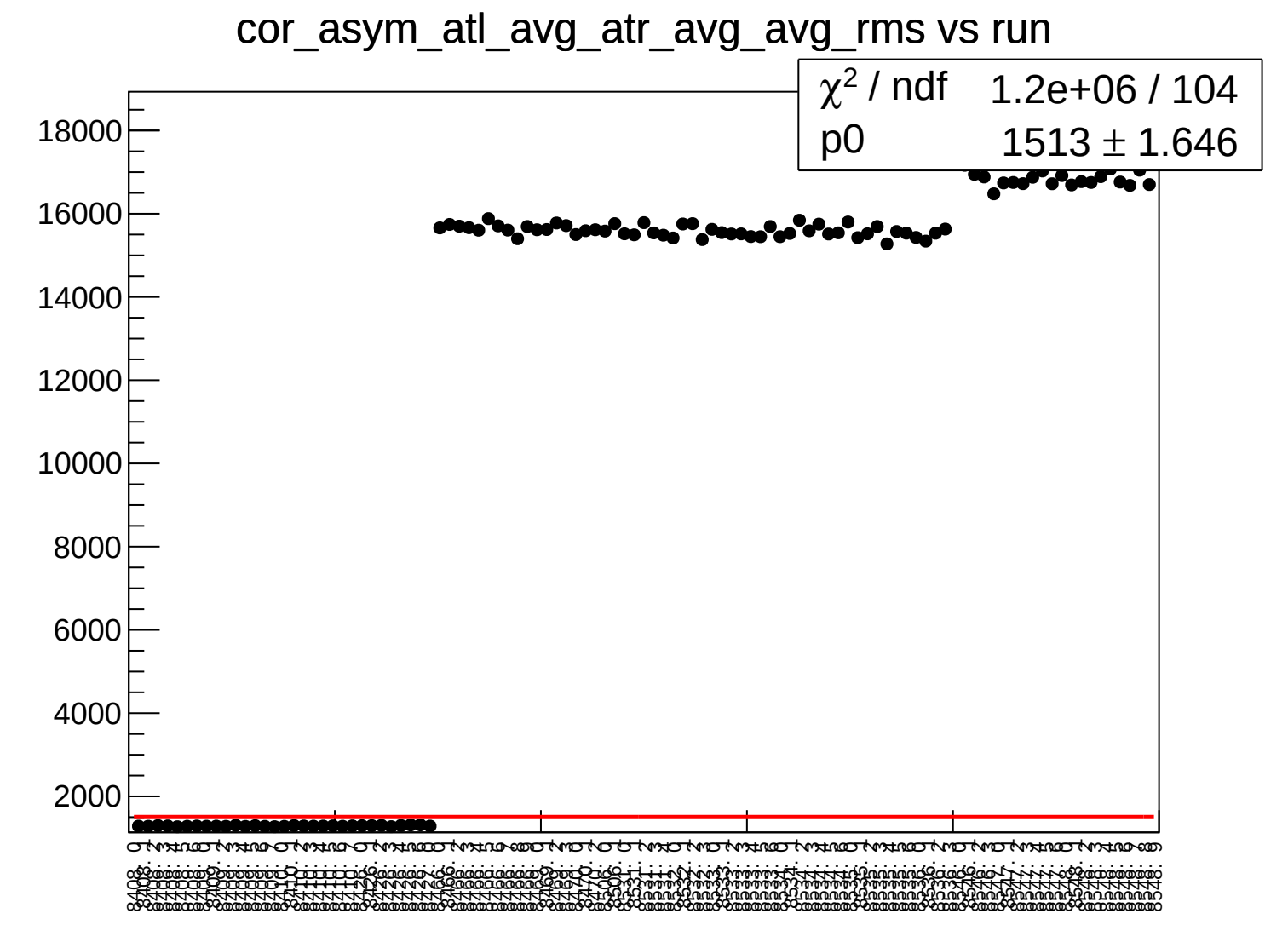

asym_atl_avg_atr_avg_avg_reg_correction_mean vs run
×10^3
χ² / ndf 102.8 / 104
p0 160.3 ± 686.8
200
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 105
Mean 26.8
Std Dev 65.2
3
2
1
0
−1
−2

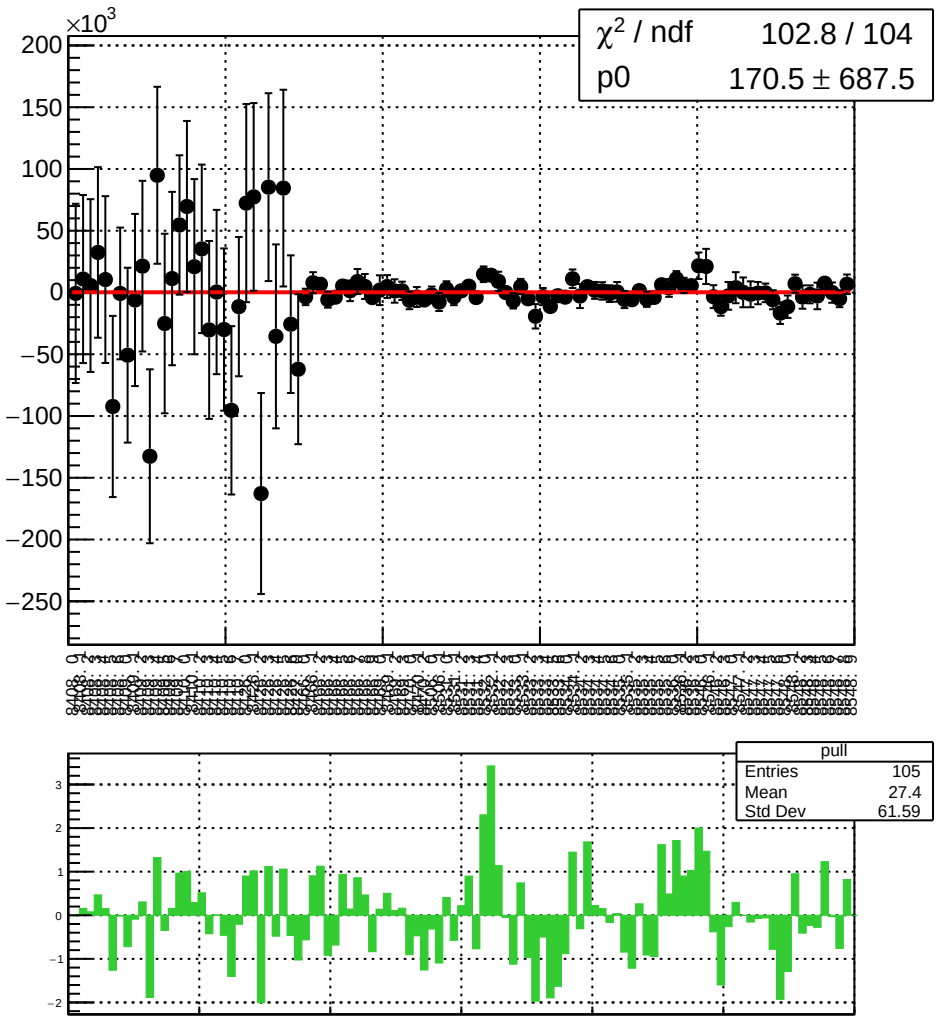

pull1D
Entries 105
Mean −0.004259
Std Dev 0.9892
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

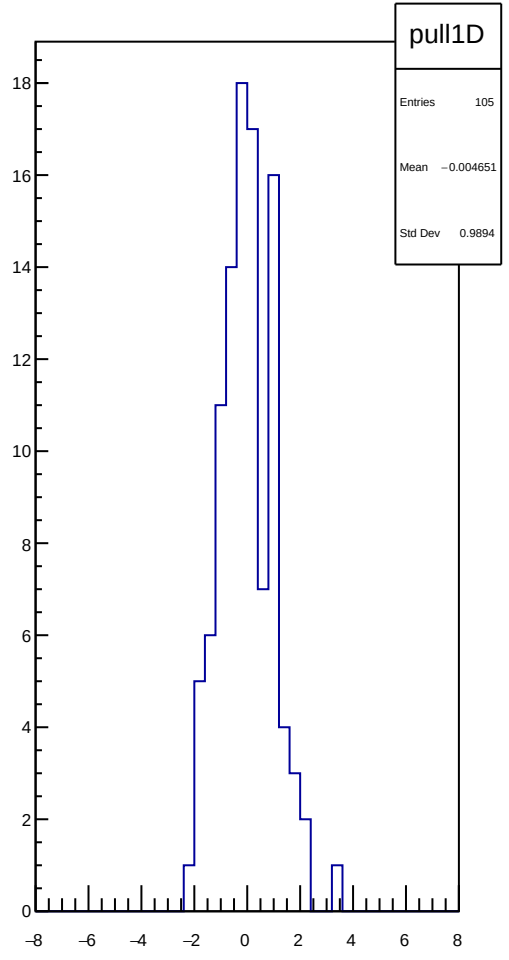

asym_atl_avg_atr_avg_avg_reg_correction_rms vs run
χ² / ndf 7.198e+05 / 104
p0 559.3 ± 0.4857
8000
7000
6000
5000
4000
3000
2000
1000

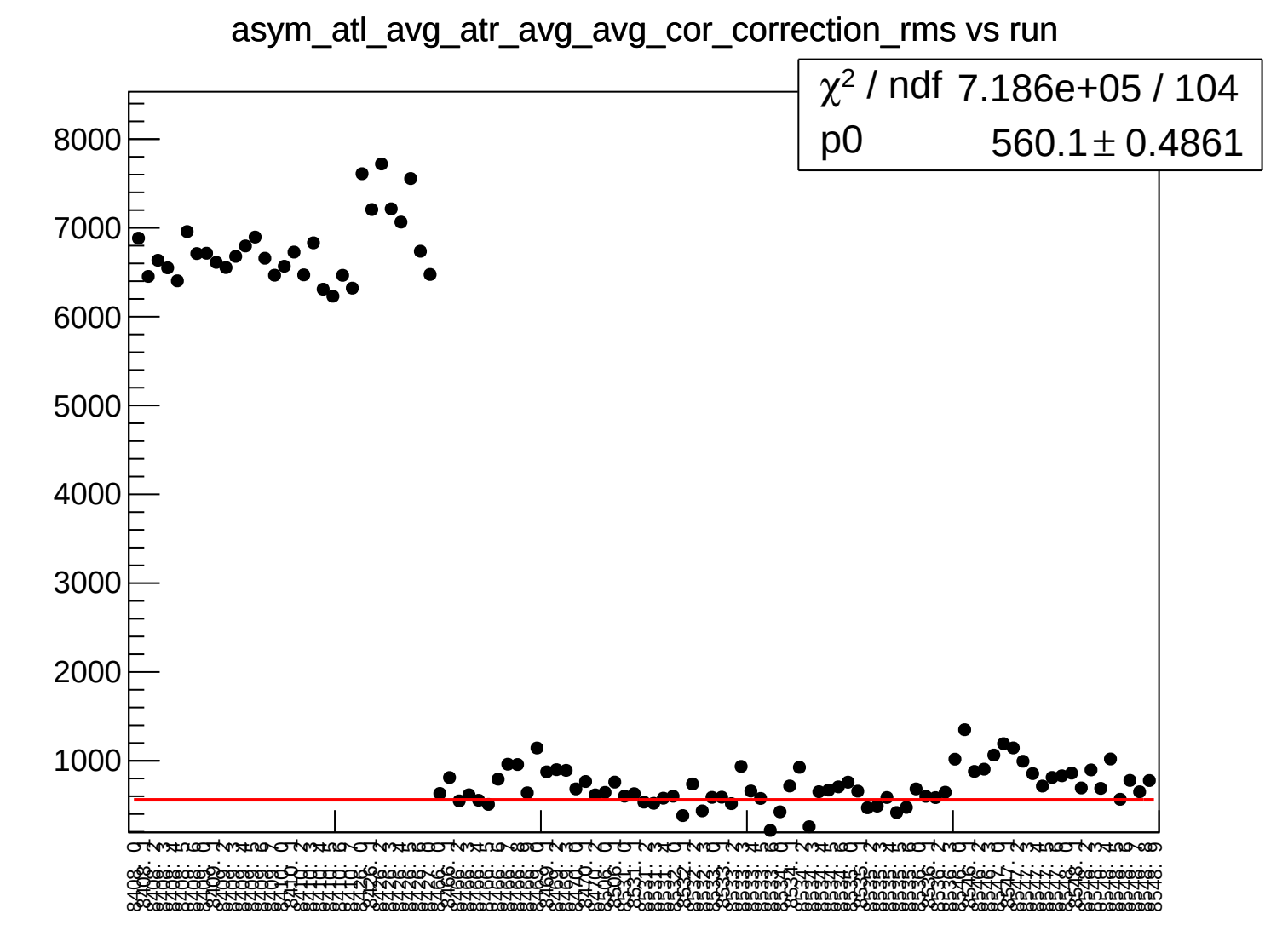

cor_asym_atl_avg_atr_avg_avg_mean vs run
×10^3
600
400
200
0
−200
−400
−600
χ² / ndf 101.4 / 104
p0 3982 ± 2327
pull
Entries 105
Mean 216.5
Std Dev 0
2
1
0
−1
−2

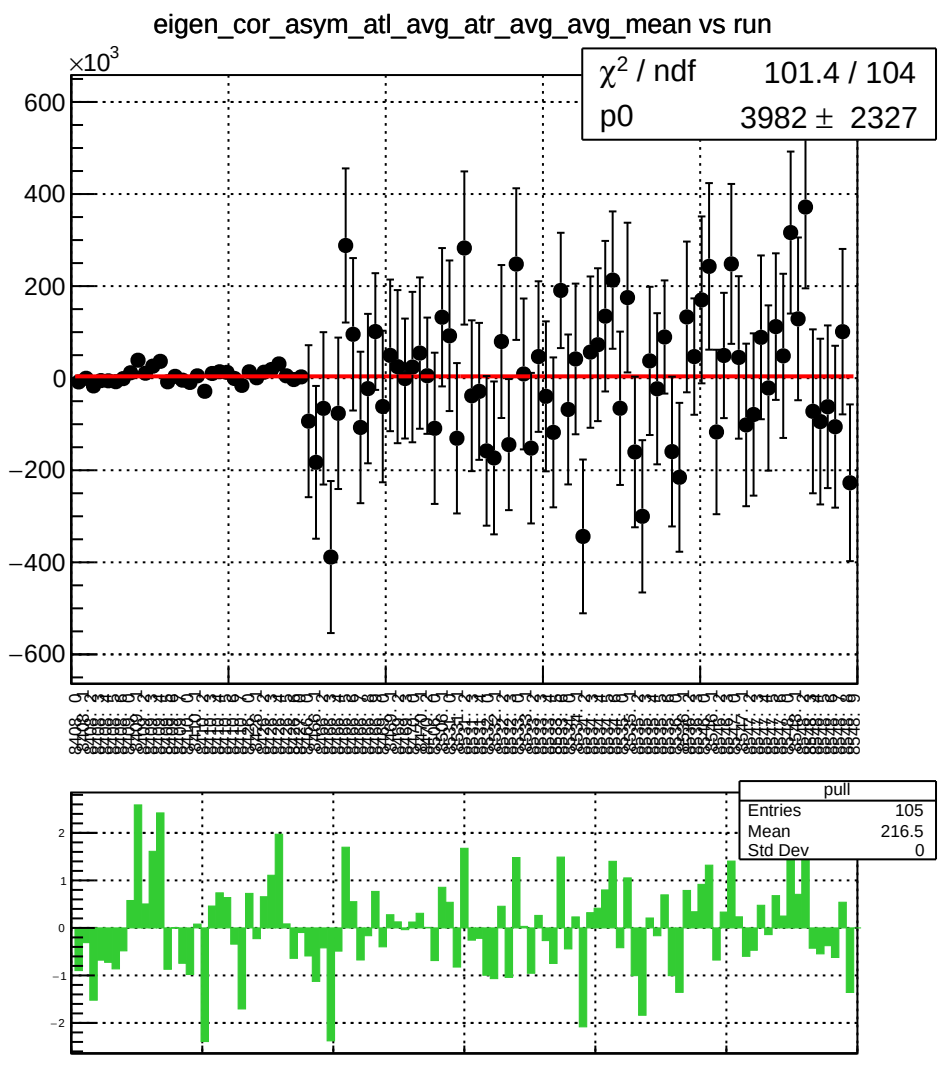

pull1D
Entries 105
Mean 0.01385
Std Dev 0.9828
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

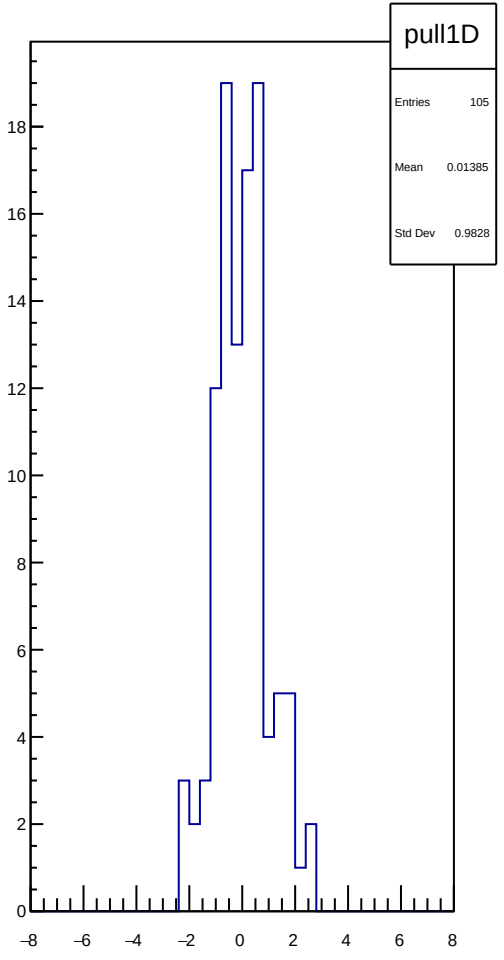

cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 1.2e+06 / 104
p0 1513 ± 1.646
18000
16000
14000
12000
10000
8000
6000
4000
2000

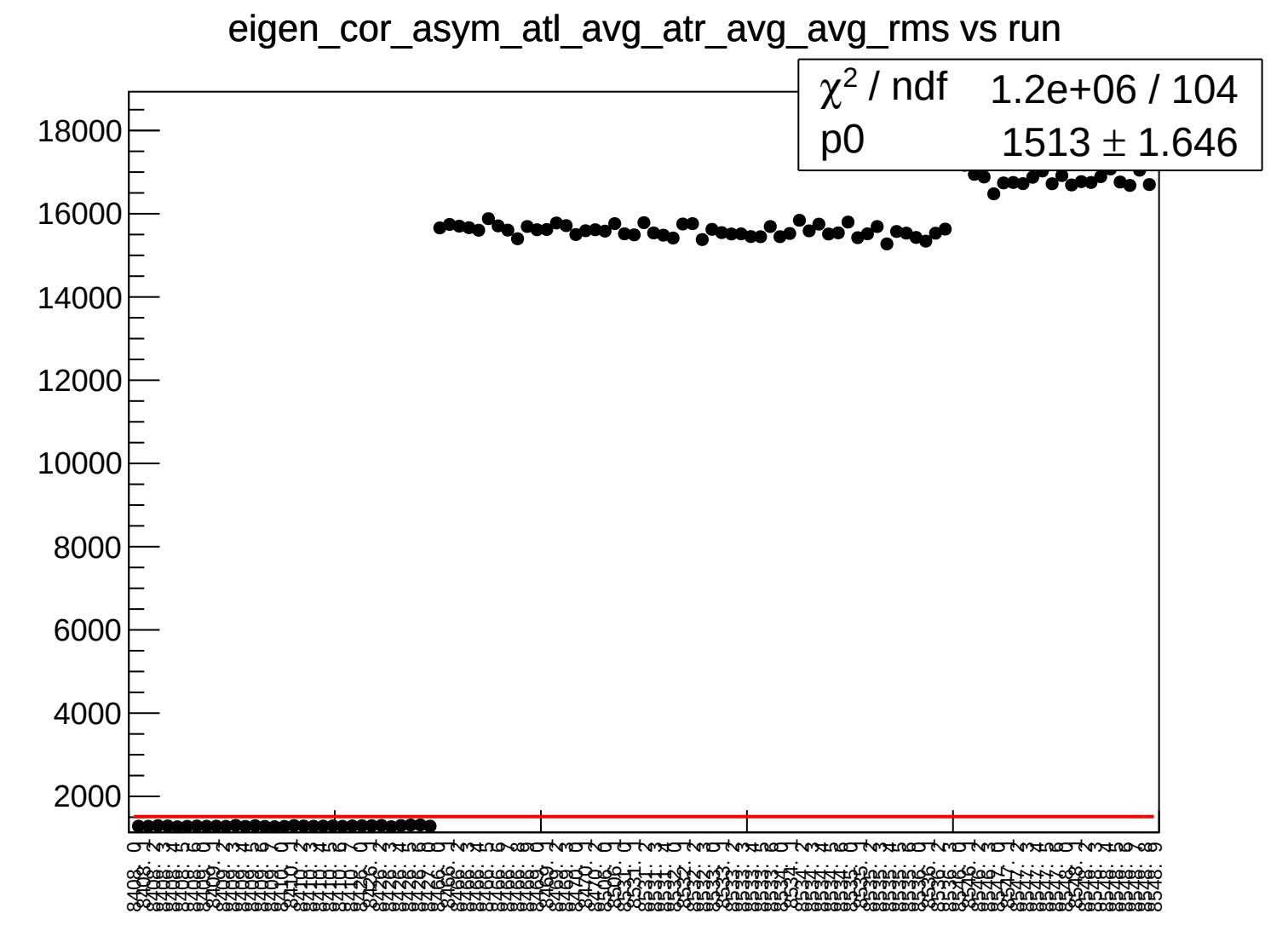

asym_atl_avg_atr_avg_avg_cor_correction_mean vs run
×10^3
χ² / ndf 102.8 / 104
p0 170.5 ± 687.5
200
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 105
Mean 27.4
Std Dev 61.59
3
2
1
0
−1
−2

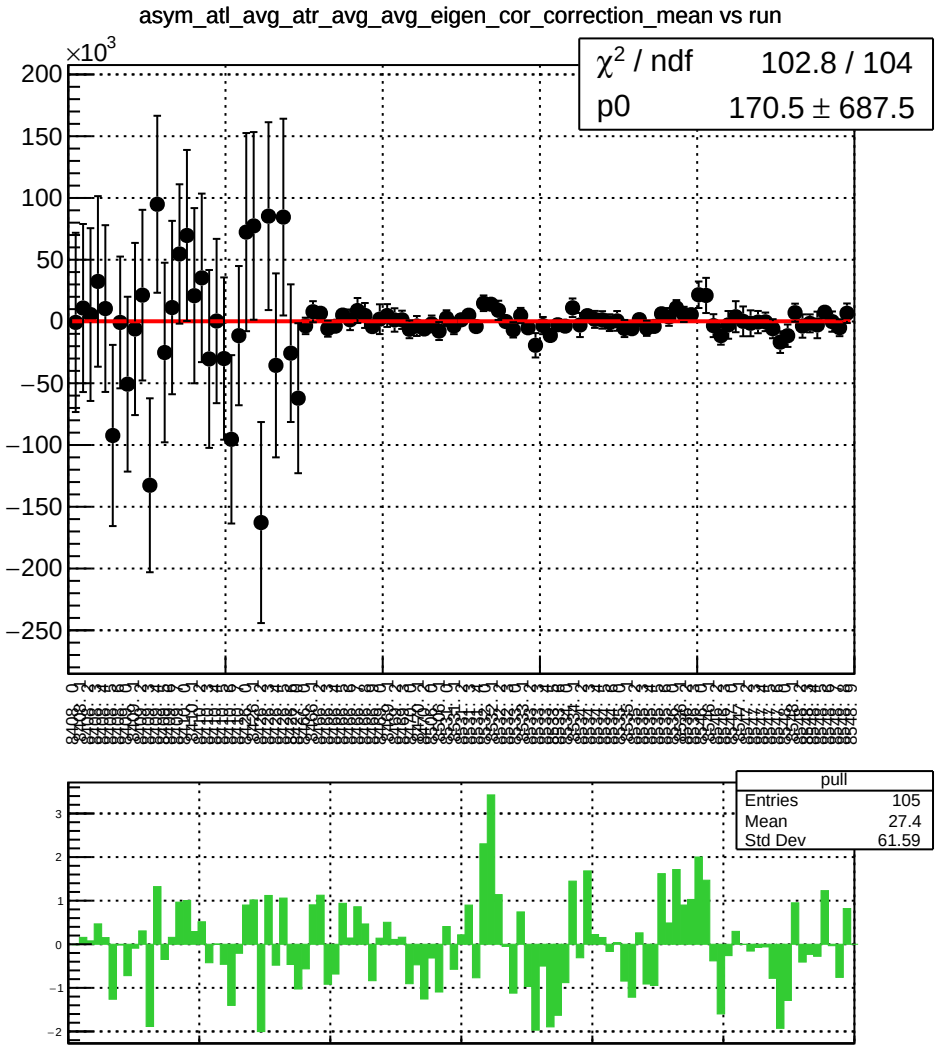

pull1D
Entries 105
Mean −0.004651
Std Dev 0.9894
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

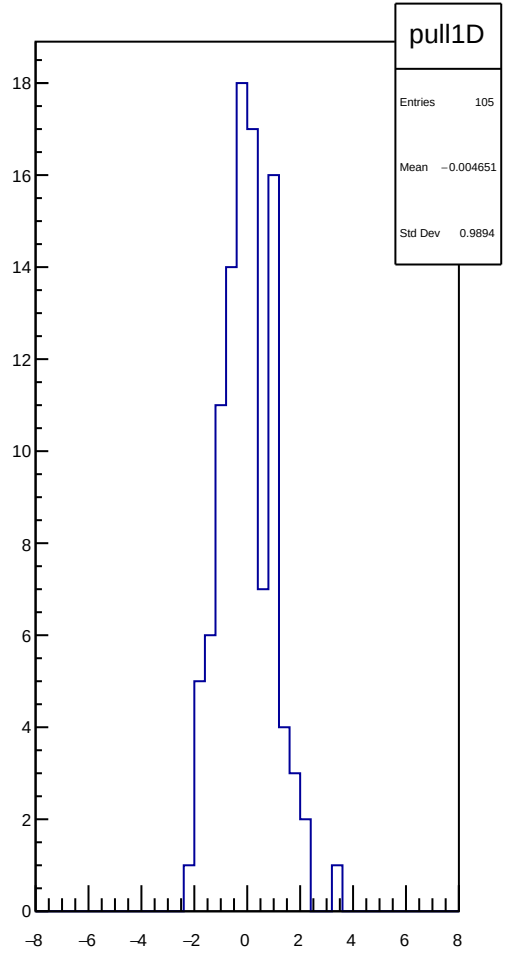

asym_atl_avg_atr_avg_avg_cor_correction_rms vs run
χ² / ndf 7.186e+05 / 104
p0 560.1 ± 0.4861
8000
7000
6000
5000
4000
3000
2000
1000

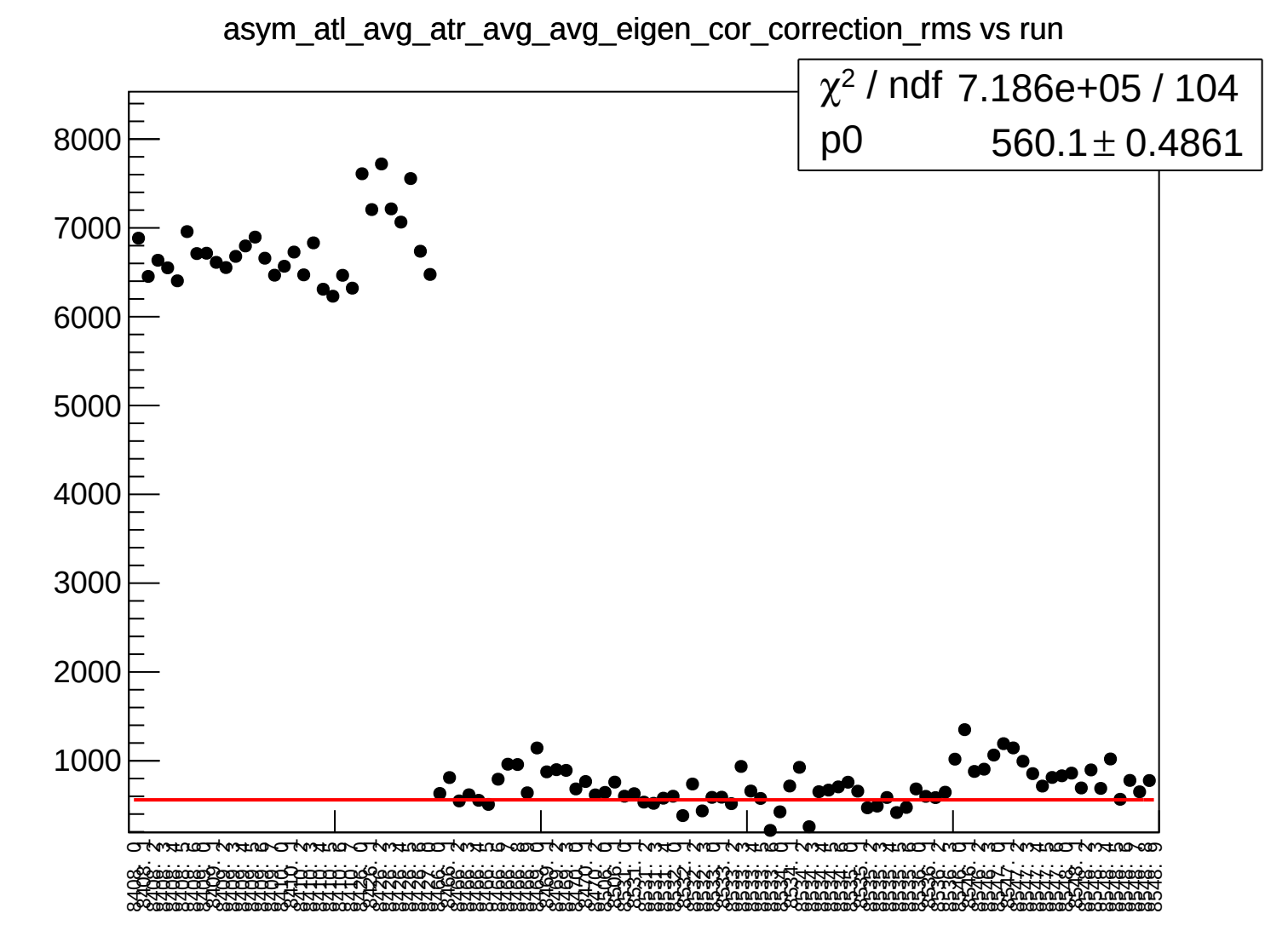

eigen_cor_asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 101.4 / 104
p0 3982 ± 2327
600
400
200
0
−200
−400
−600
pull
Entries 105
Mean 216.5
Std Dev 0
2
1
0
−1
−2

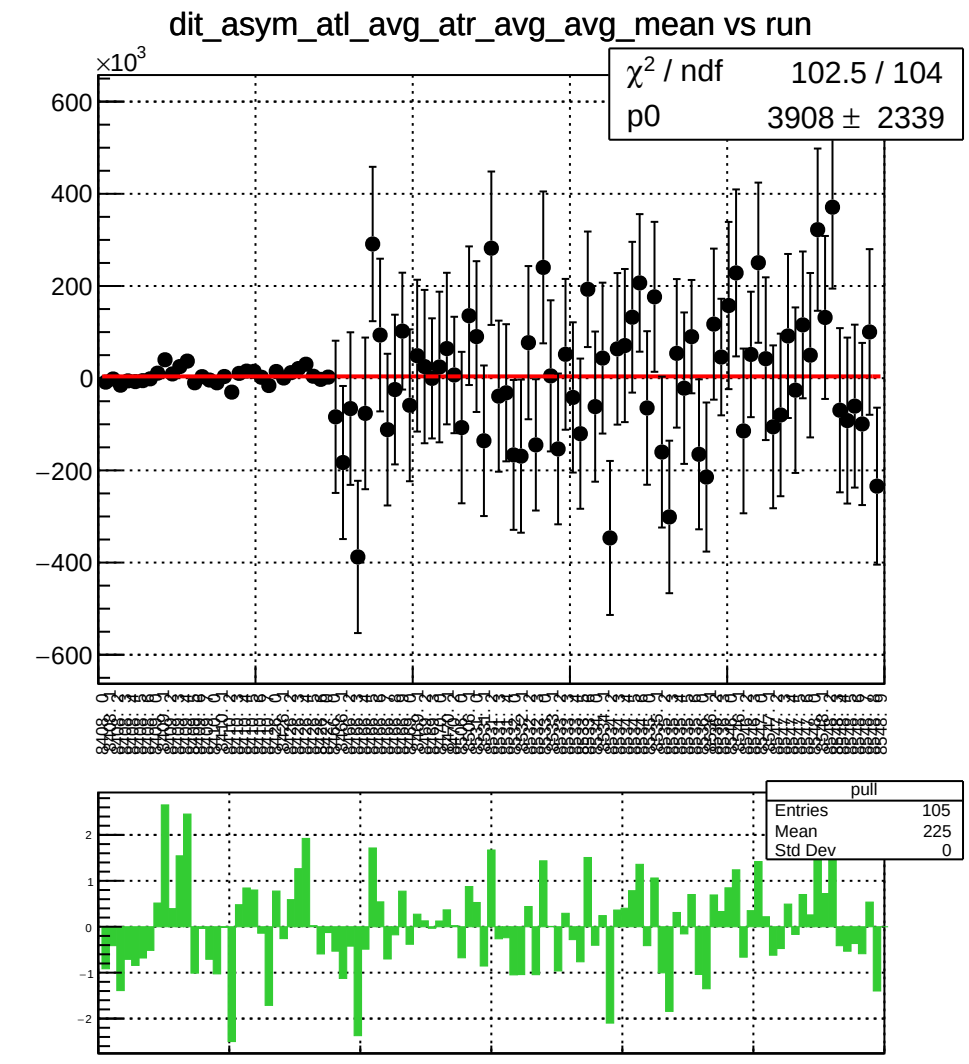

pull1D
Entries 105
Mean 0.01385
Std Dev 0.9828
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

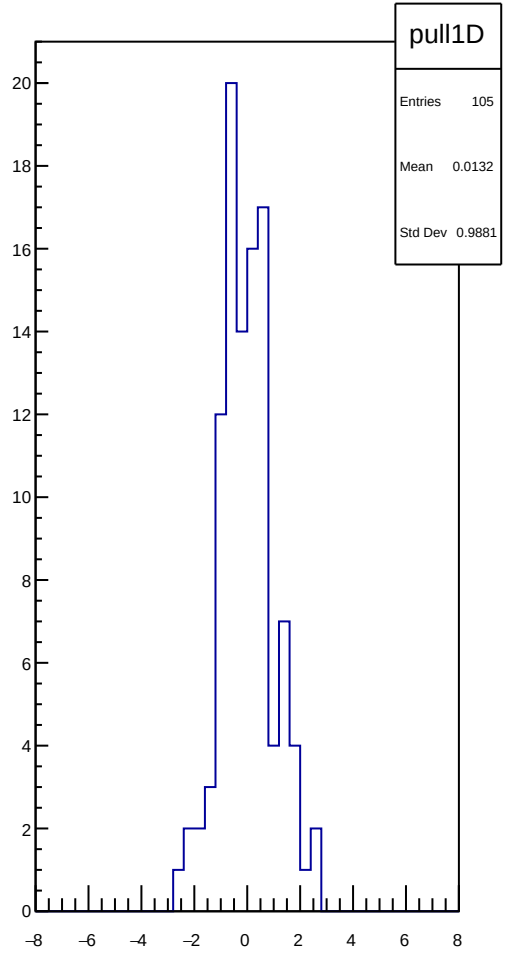

eigen_cor_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 1.2e+06 / 104
p0 1513 ± 1.646
18000
16000
14000
12000
10000
8000
6000
4000
2000

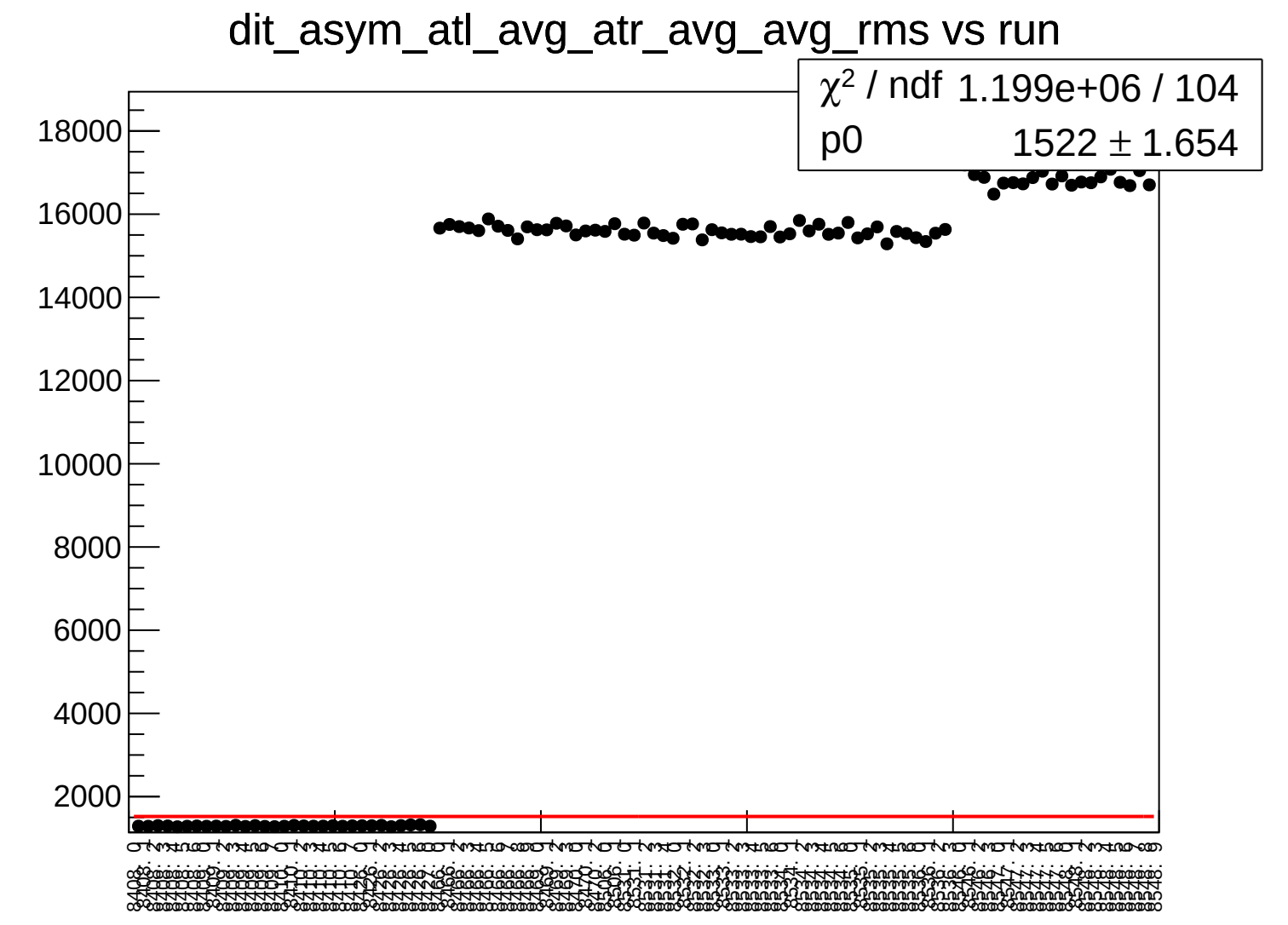

asym_atl_avg_atr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 102.8 / 104
p0 170.5 ± 687.5
pull
Entries 105
Mean 27.4
Std Dev 61.59

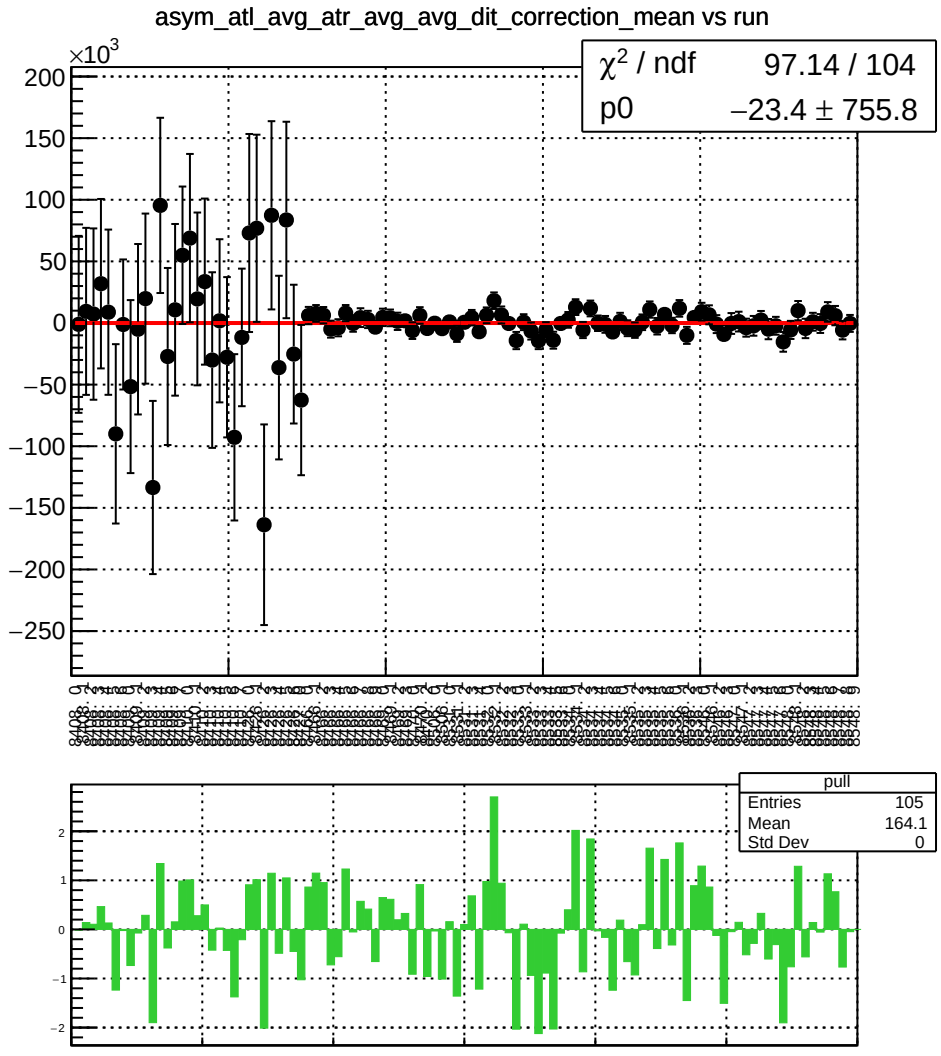

pull1D
Entries 105
Mean −0.004651
Std Dev 0.9894

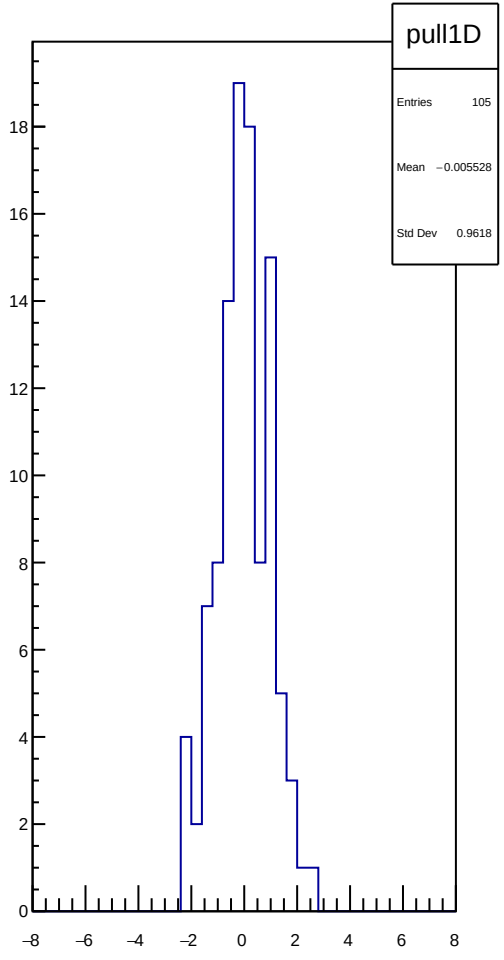

asym_atl_avg_atr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 7.186e+05 / 104
p0 560.1 ± 0.4861
8000
7000
6000
5000
4000
3000
2000
1000

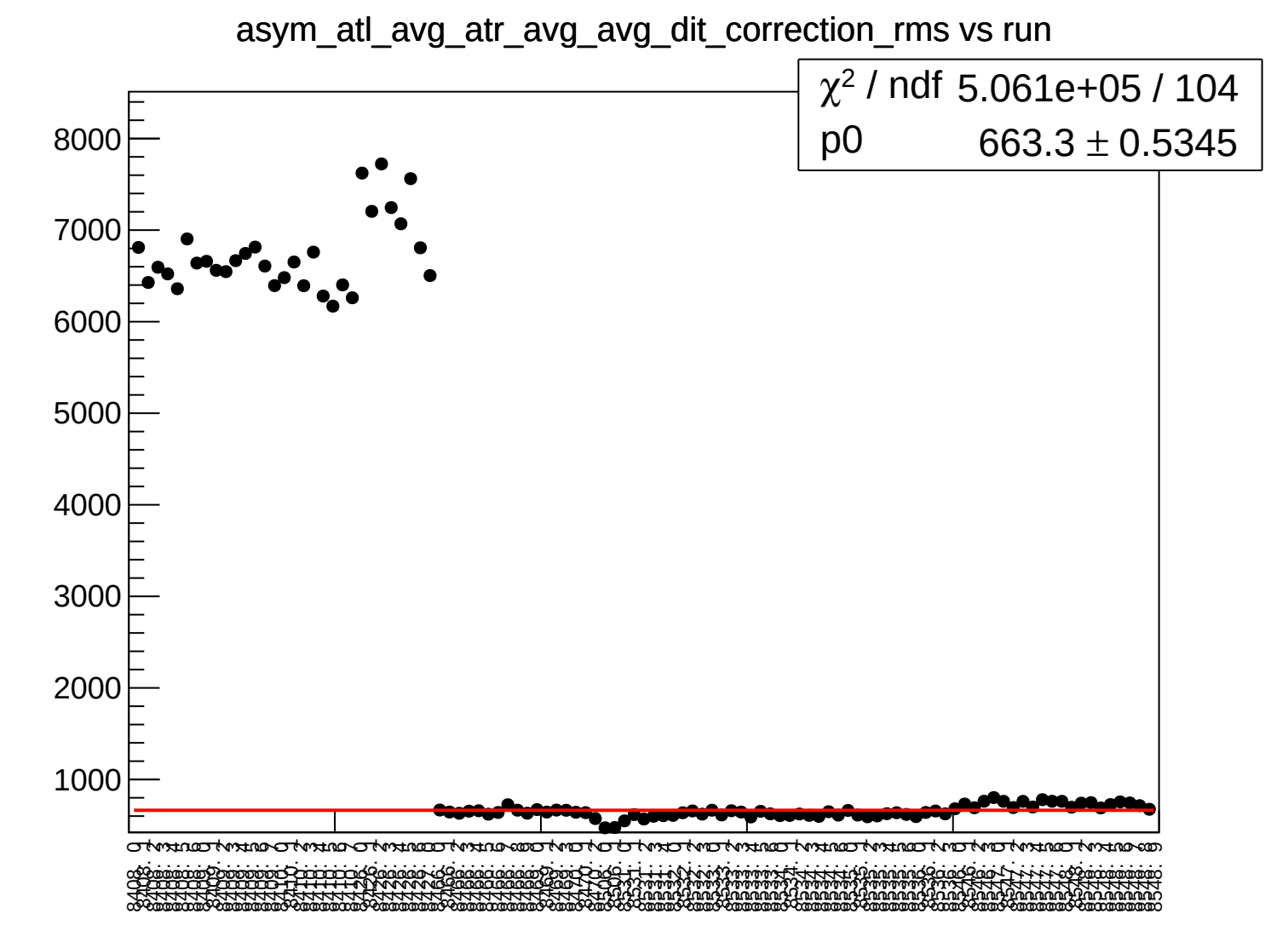

dit_asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ^2 / ndf 102.5 / 104
p0 3908 ± 2339
600
400
200
0
−200
−400
−600
pull
Entries 105
Mean 225
Std Dev 0
2
1
0
−1
−2

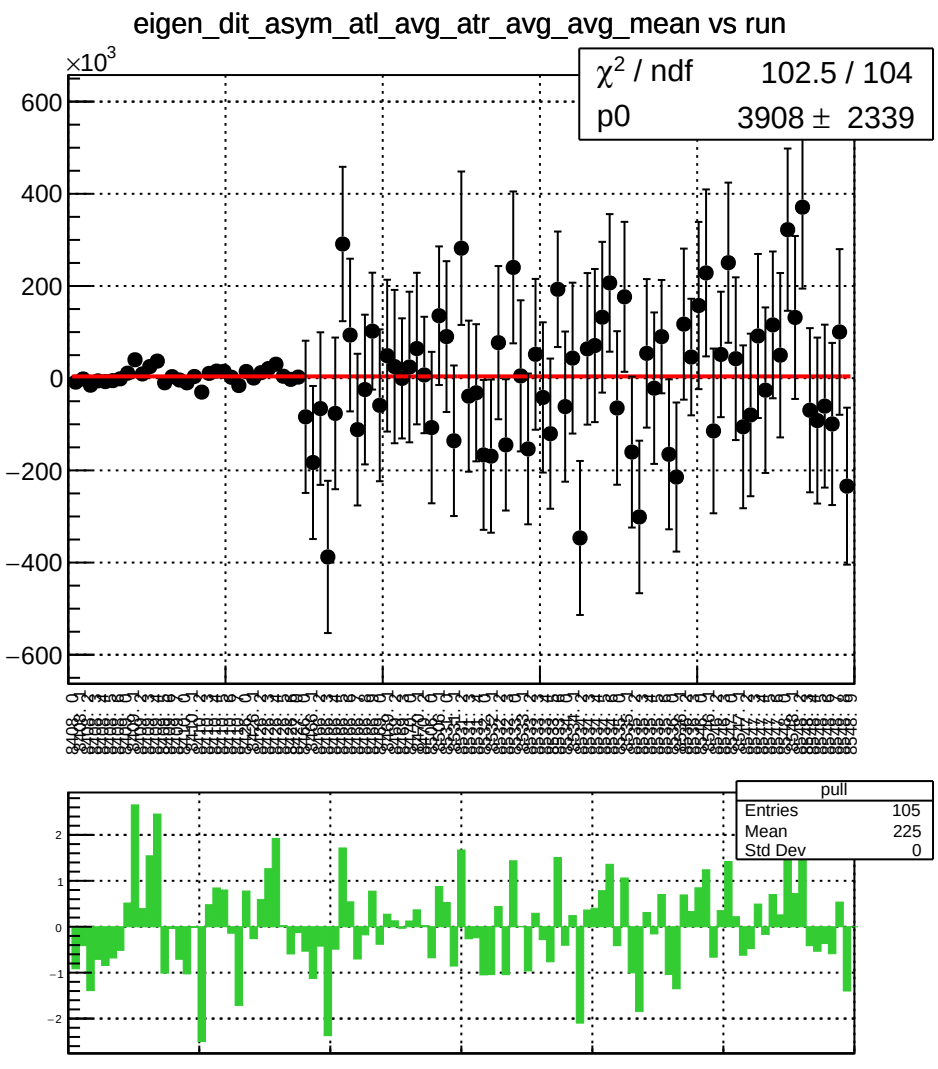

pull1D
Entries 105
Mean 0.0132
Std Dev 0.9881
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

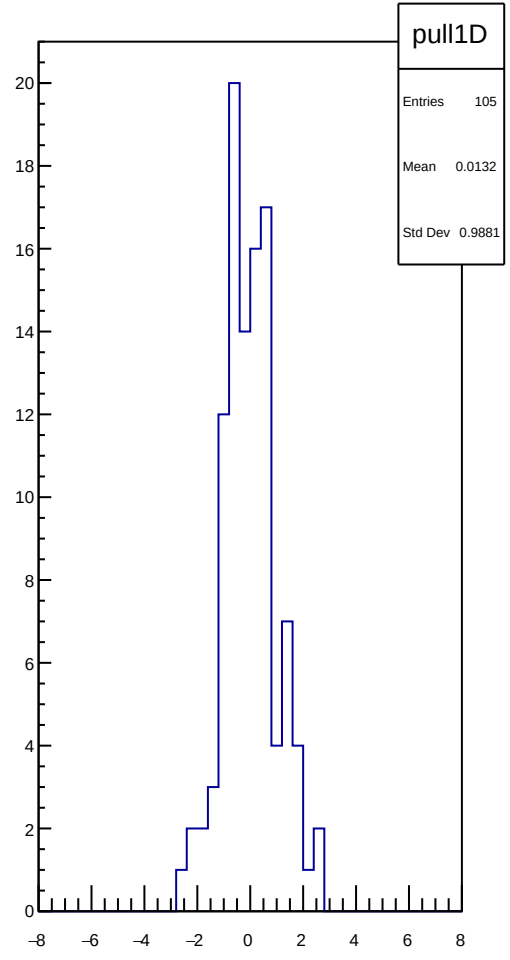

dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 1.199e+06 / 104
p0 1522 ± 1.654
18000
16000
14000
12000
10000
8000
6000
4000
2000

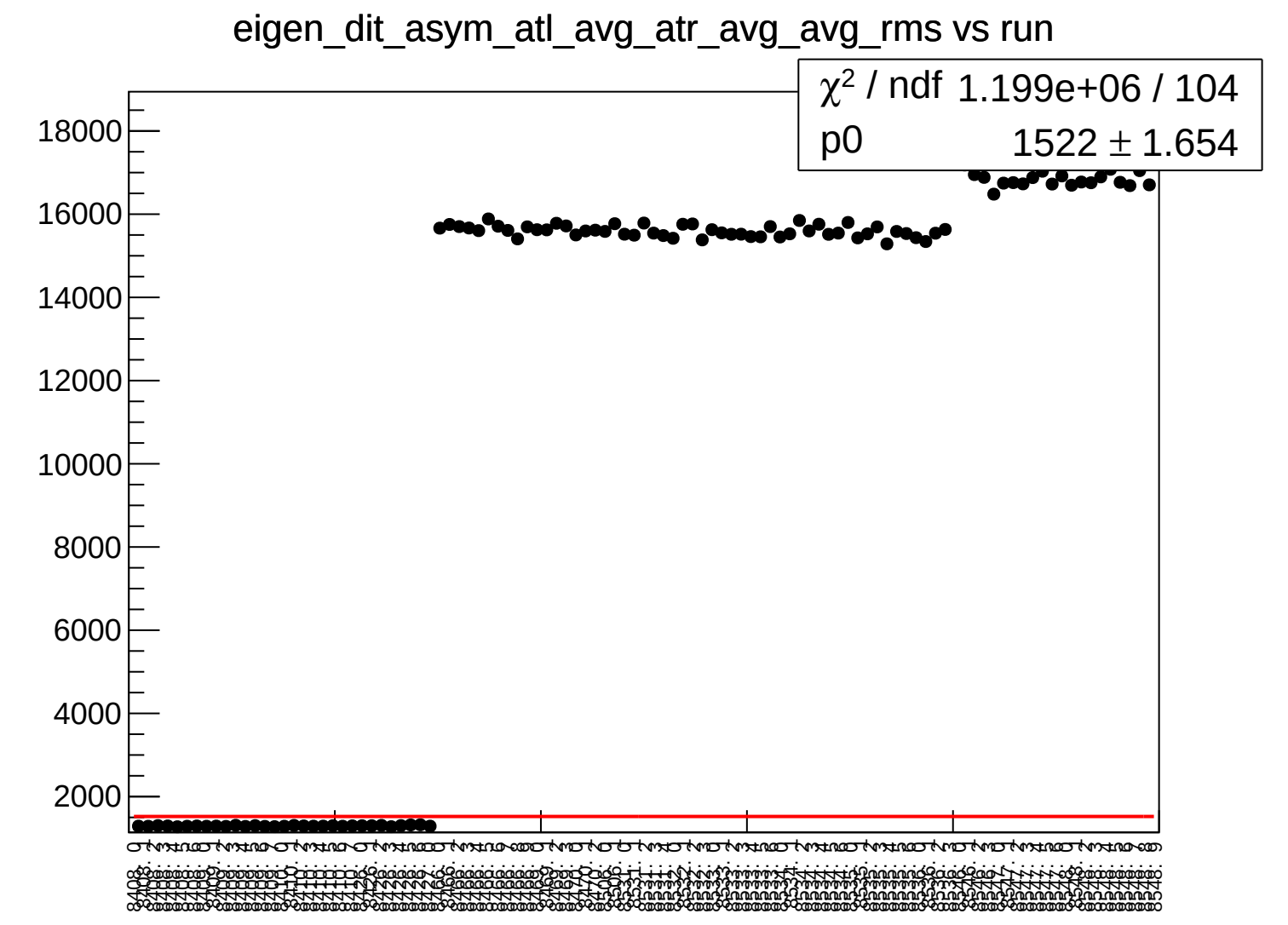

asym_atl_avg_atr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 97.14 / 104
p0 −23.4 ± 755.8
200
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 105
Mean 164.1
Std Dev 0
2
1
0
−1
−2

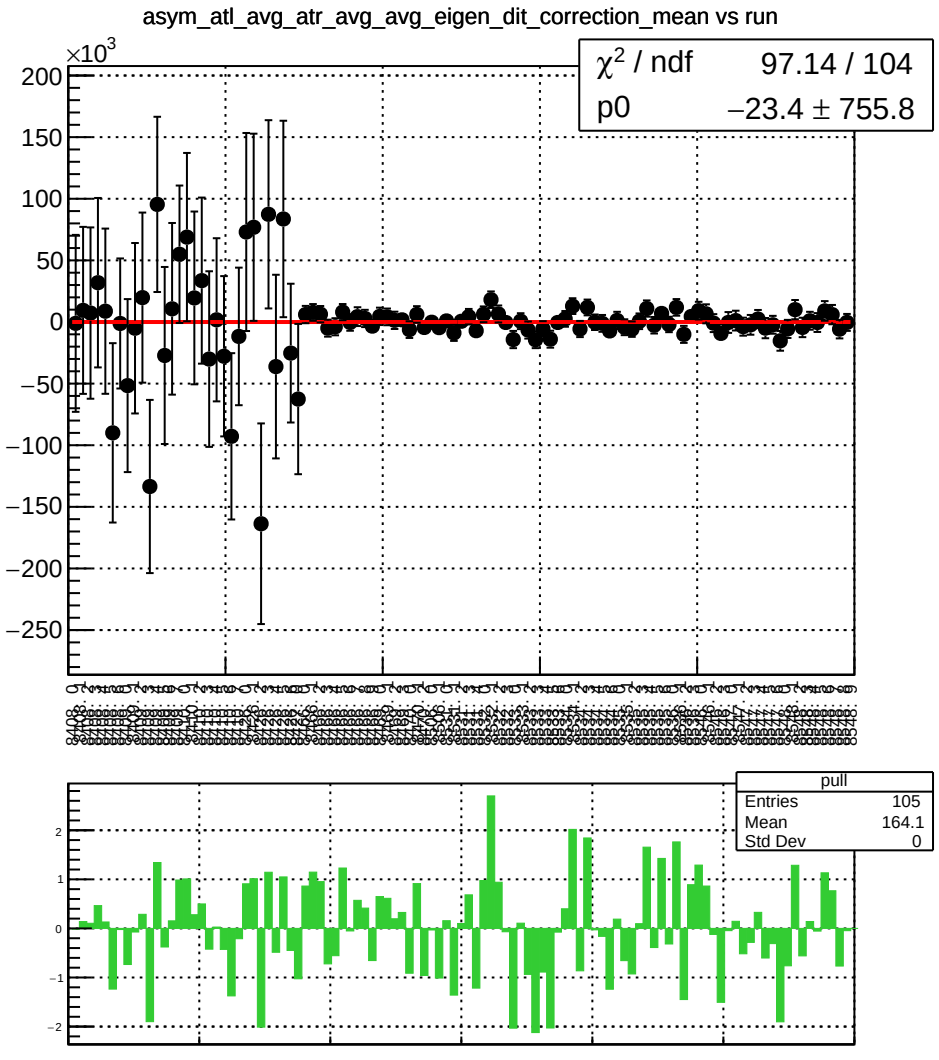

pull1D
Entries 105
Mean −0.005528
Std Dev 0.9618
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

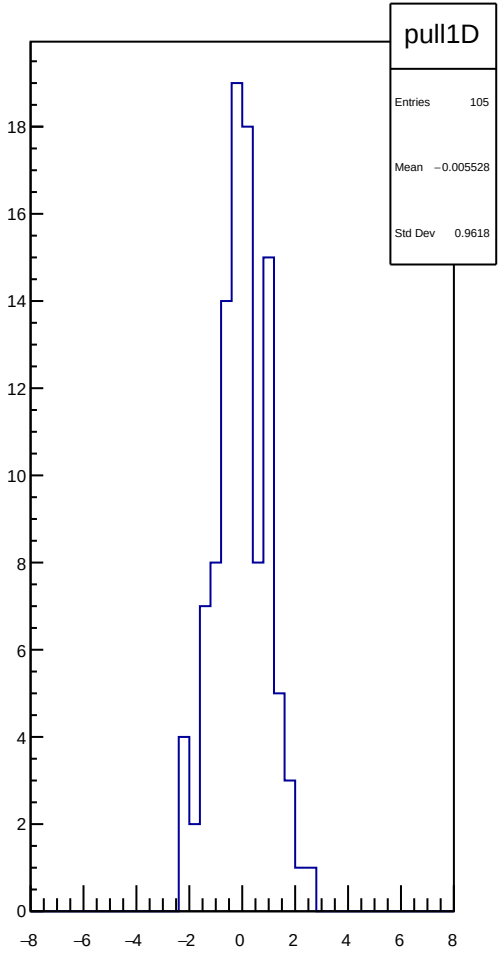

asym_atl_avg_atr_avg_avg_dit_correction_rms vs run
χ² / ndf 5.061e+05 / 104
p0 663.3 ± 0.5345
8000
7000
6000
5000
4000
3000
2000
1000

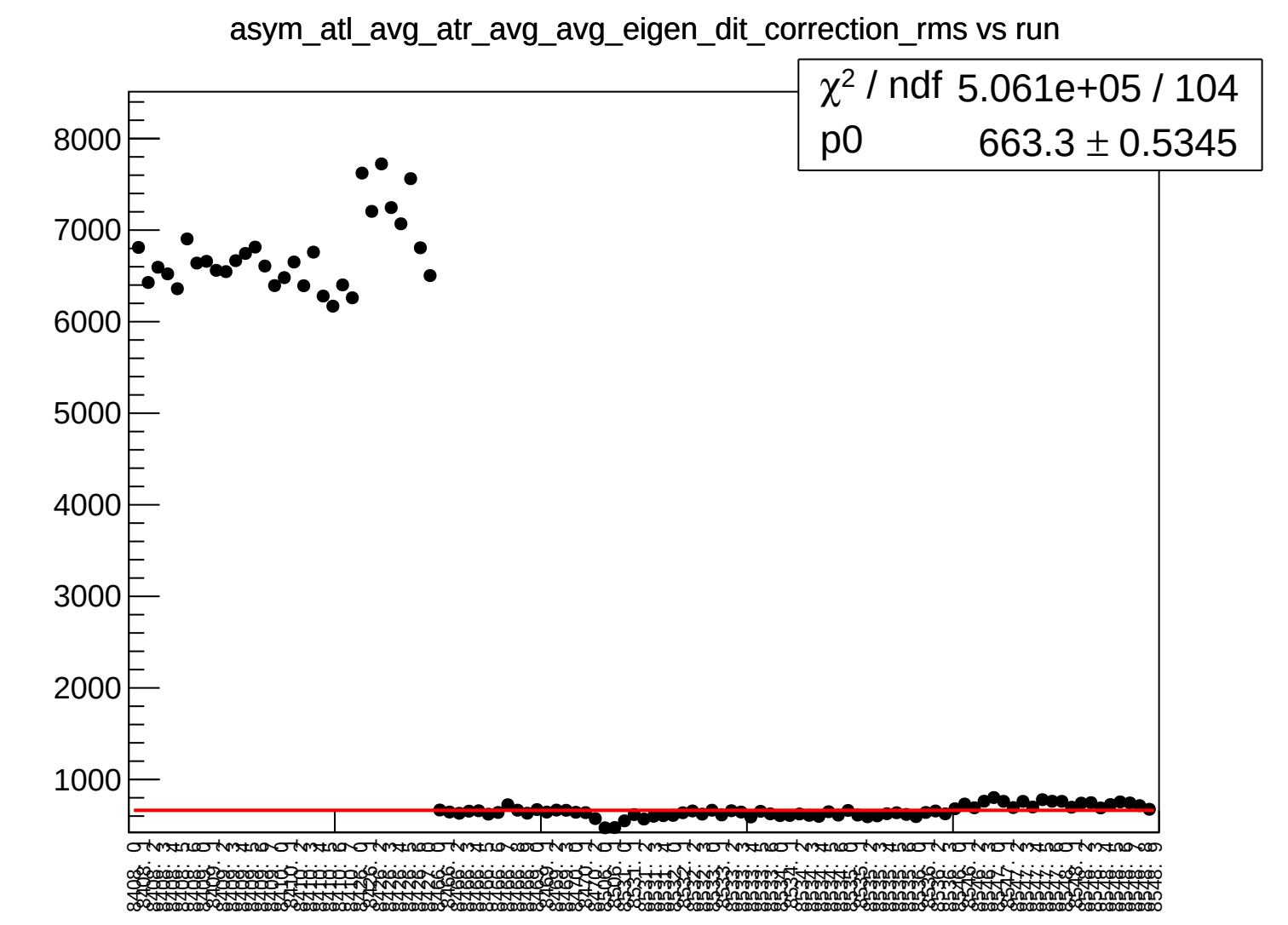

eigen_dit_asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ^2 / ndf 102.5 / 104
p0 3908 ± 2339
600
400
200
0
−200
−400
−600
pull
Entries 105
Mean 225
Std Dev 0
2
1
0
−1
−2

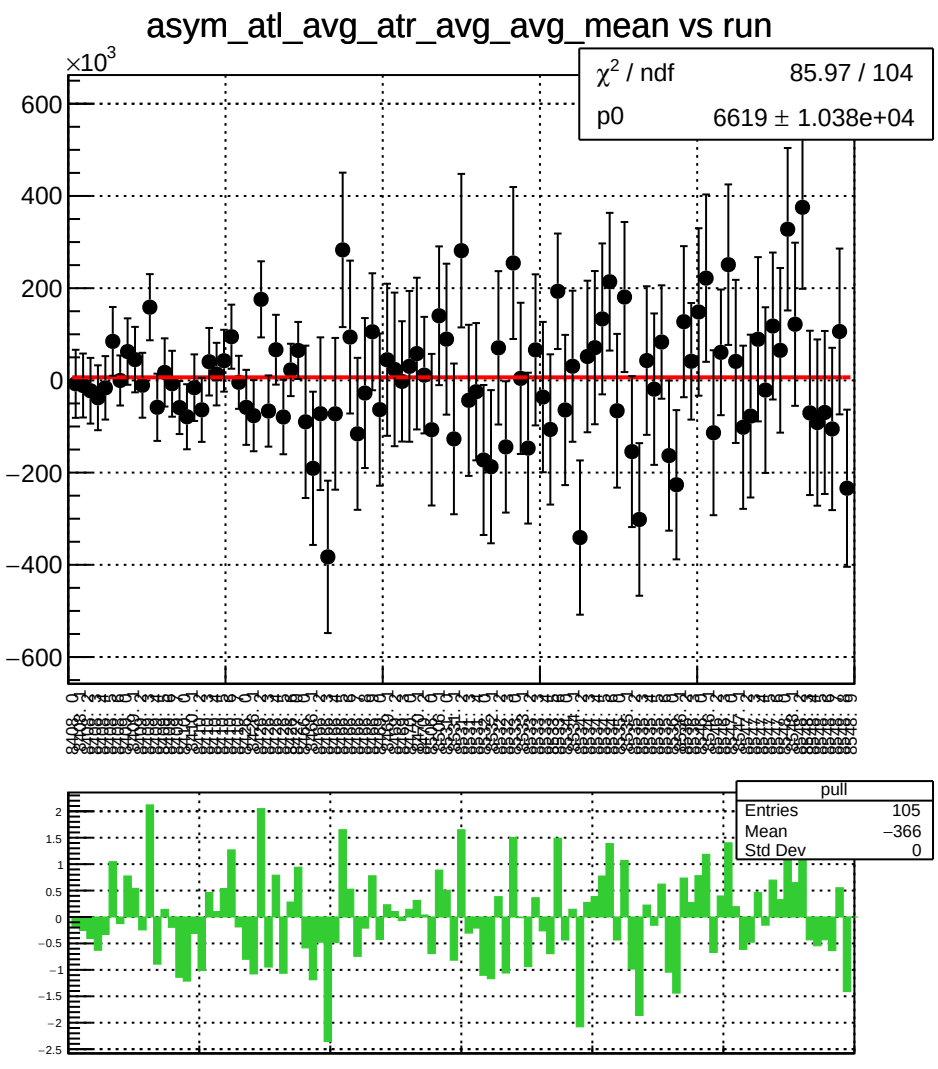

pull1D
Entries 105
Mean 0.0132
Std Dev 0.9881
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

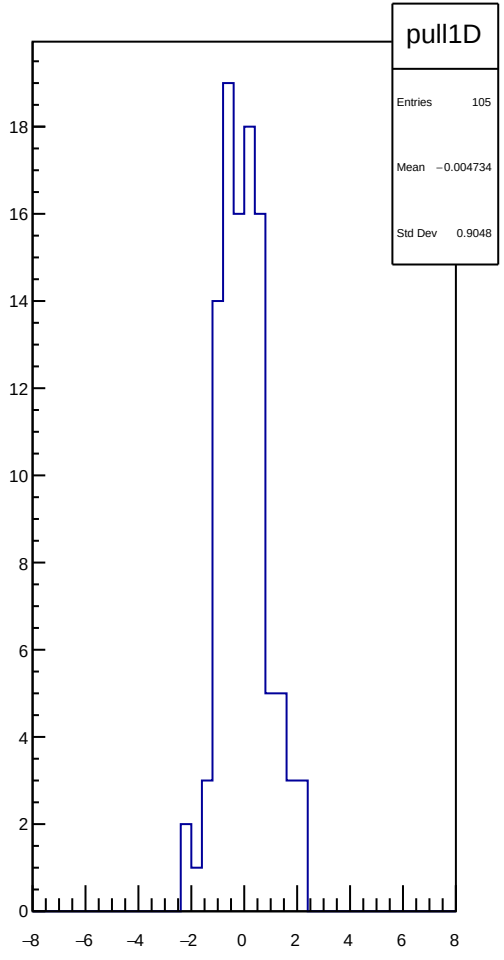

eigen_dit_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 1.199e+06 / 104
p0 1522 ± 1.654
18000
16000
14000
12000
10000
8000
6000
4000
2000

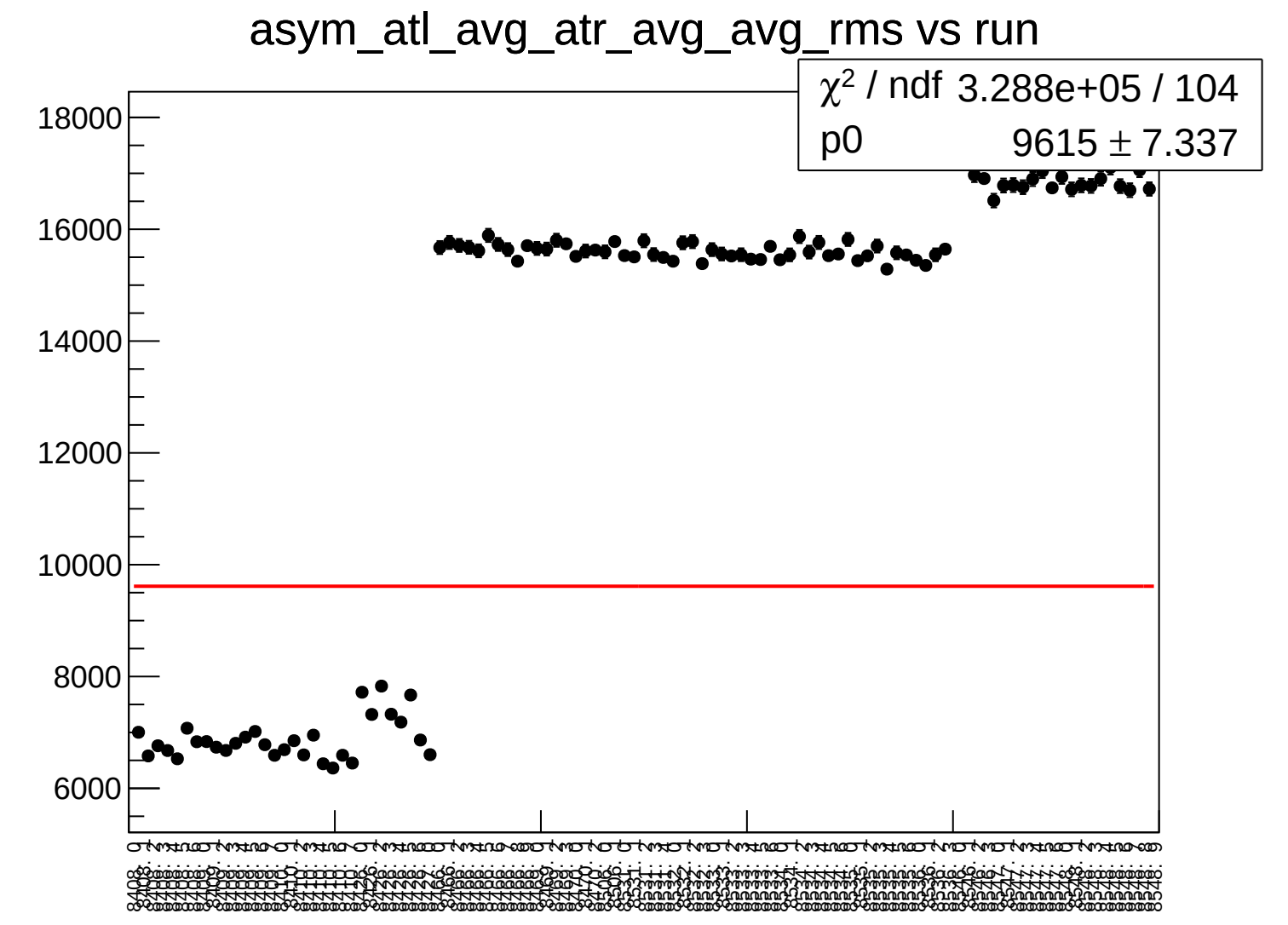

asym_atl_avg_atr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 97.14 / 104
p0 −23.4 ± 755.8
200
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 105
Mean 164.1
Std Dev 0
2
1
0
−1
−2

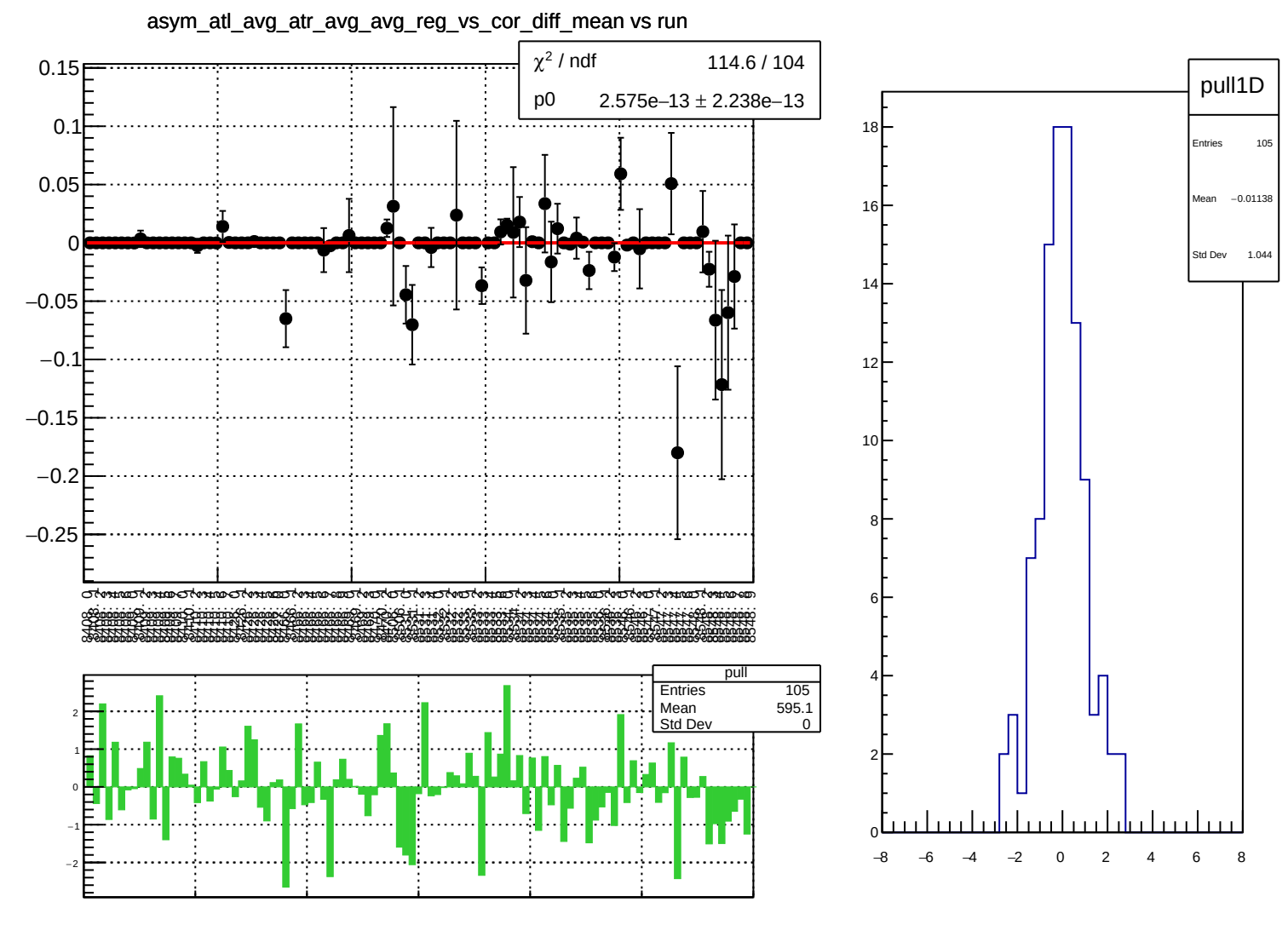

pull1D
Entries 105
Mean −0.005528
Std Dev 0.9618
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

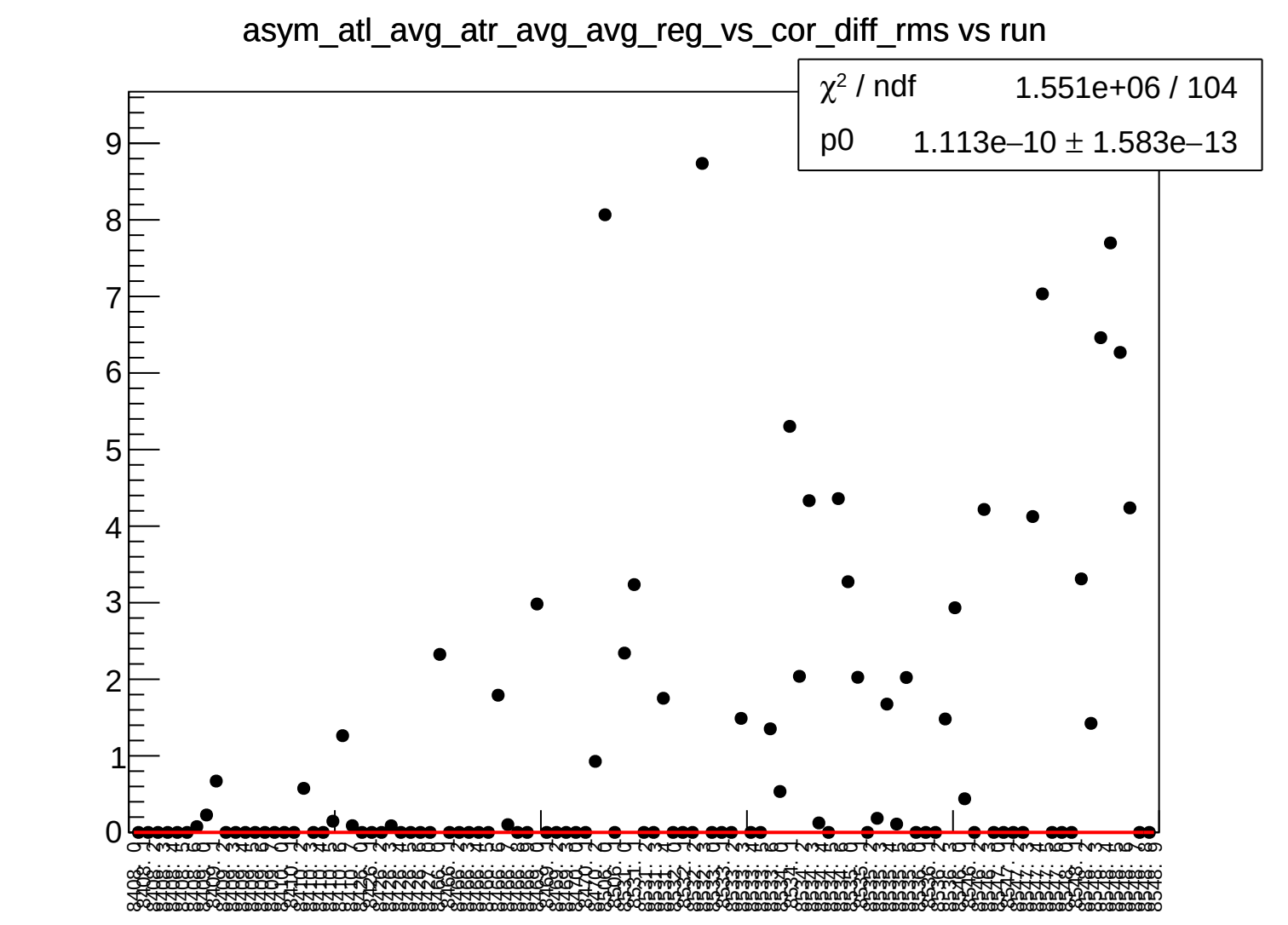

asym_atl_avg_atr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 5.061e+05 / 104
p0 663.3 ± 0.5345
8000
7000
6000
5000
4000
3000
2000
1000

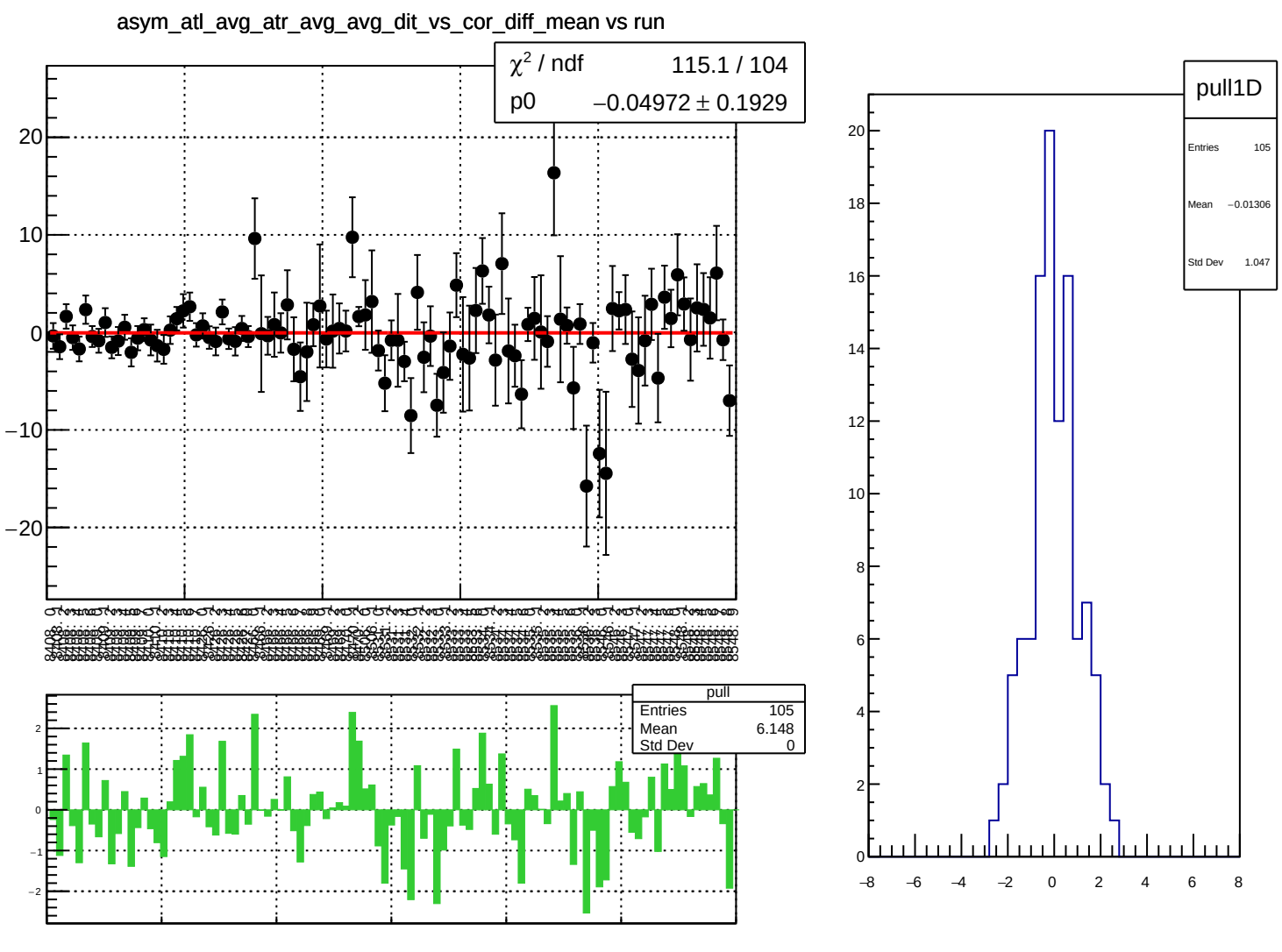

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 85.97 / 104
p0 6619 ± 1.038e+04
600
400
200
0
−200
−400
−600
pull
Entries 105
Mean −366
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

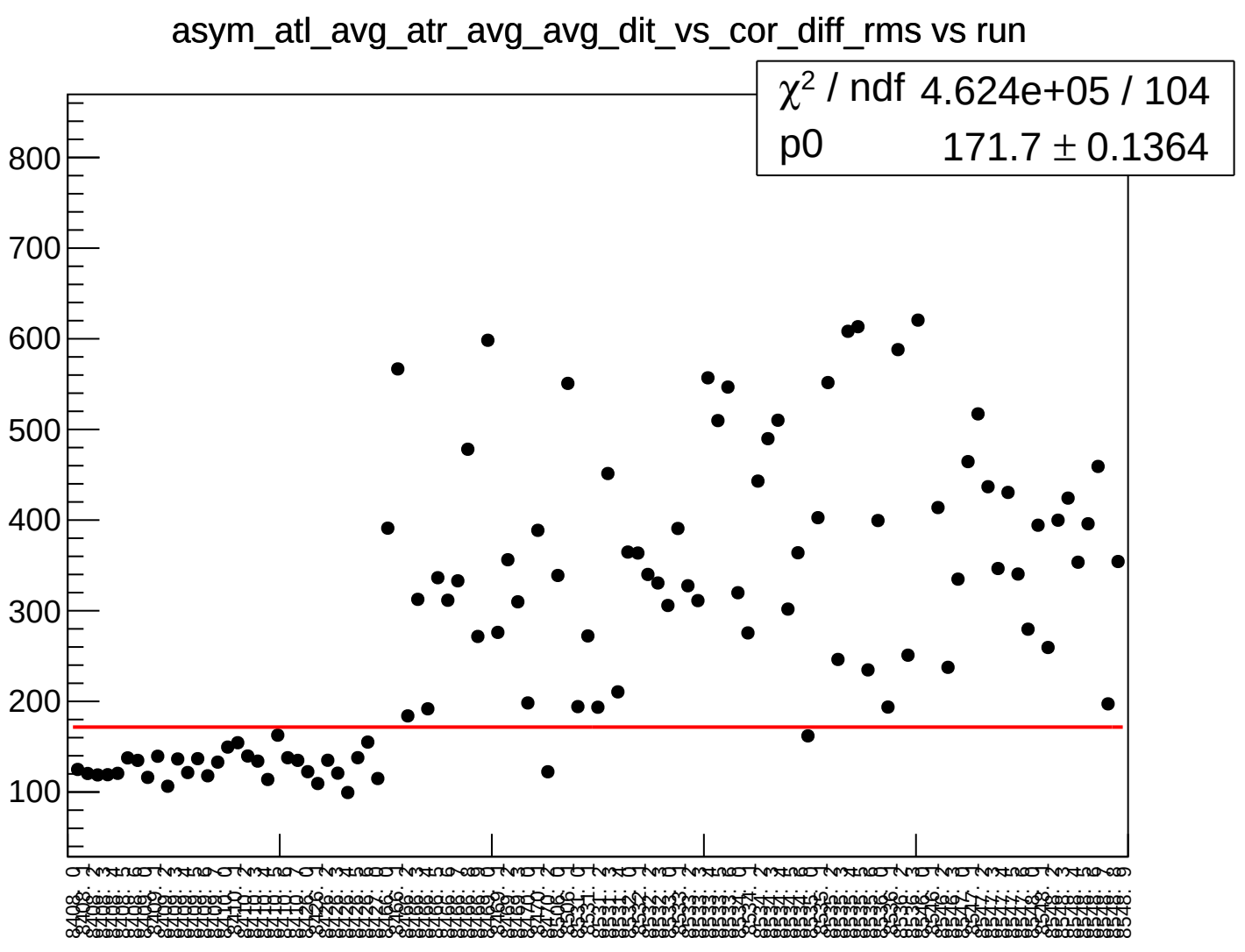

pull1D
Entries 105
Mean −0.004734
Std Dev 0.9048
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

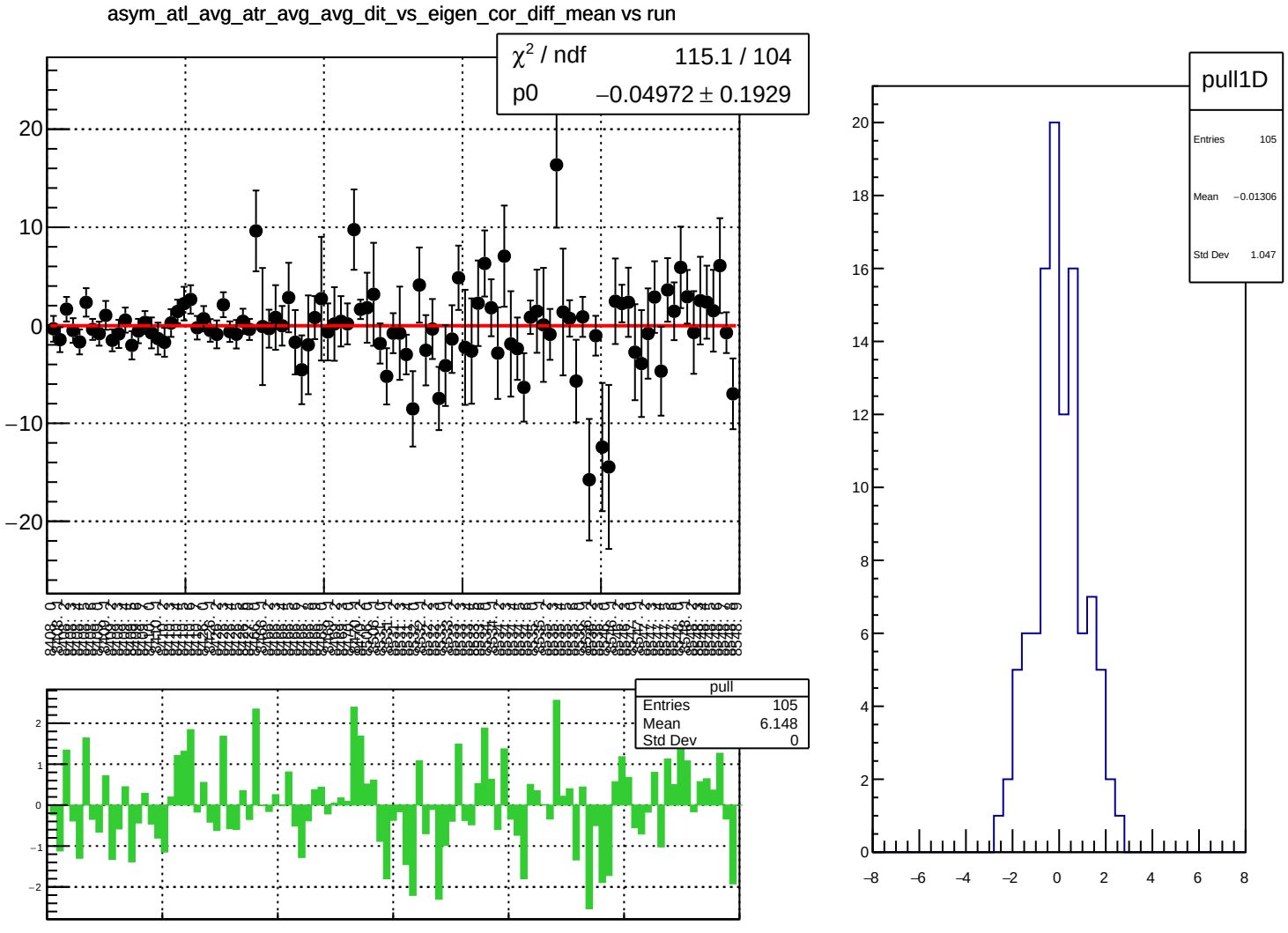

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 3.288e+05 / 104
p0 9615 ± 7.337
18000
16000
14000
12000
10000
8000
6000

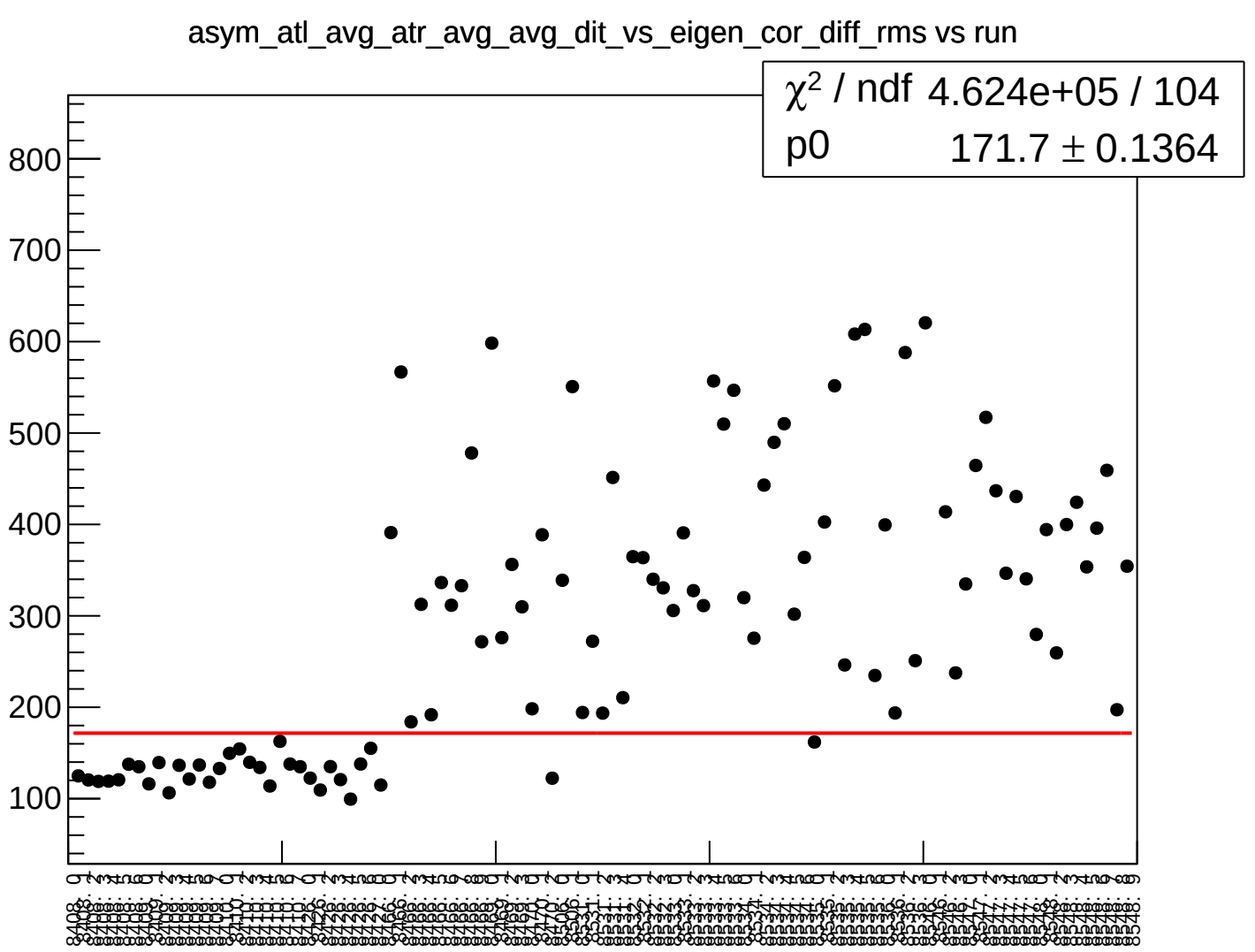

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 114.6 / 104
p0 2.575e−13 ± 2.238e−13
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25
pull
Entries 105
Mean 595.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.01138
Std Dev 1.044
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

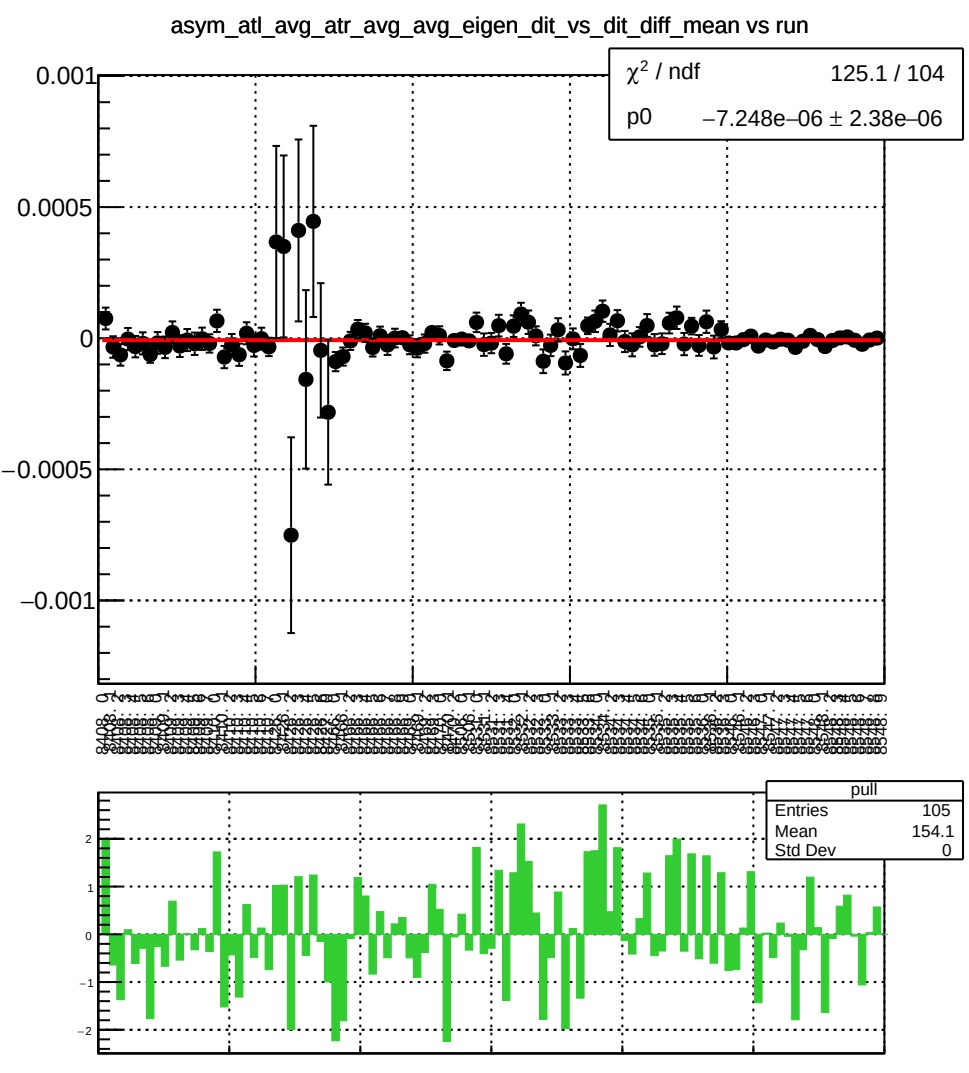

asym_atl_avg_atr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.551e+06 / 104
p0 1.113e−10 ± 1.583e−13
0
1
2
3
4
5
6
7
8
9

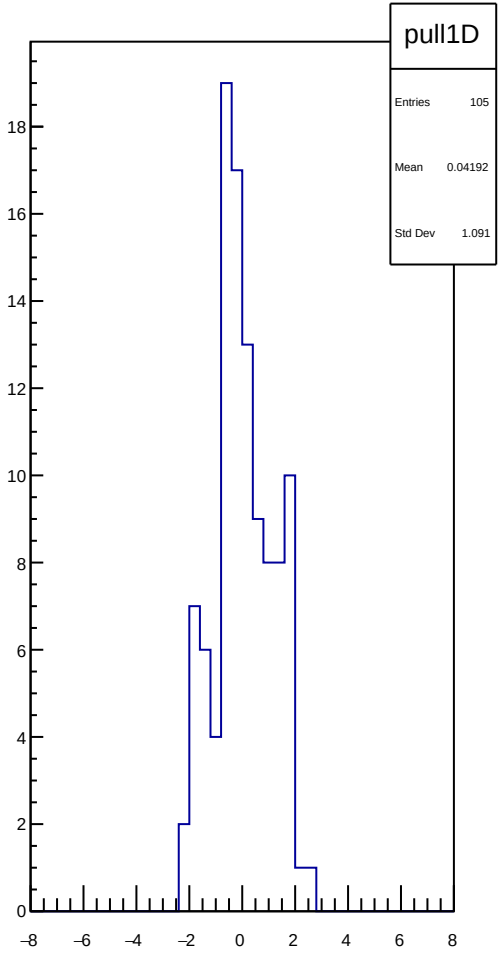

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 115.1 / 104
p0 −0.04972 ± 0.1929
pull
Entries 105
Mean 6.148
Std Dev 0
pull1D
Entries 105
Mean −0.01306
Std Dev 1.047

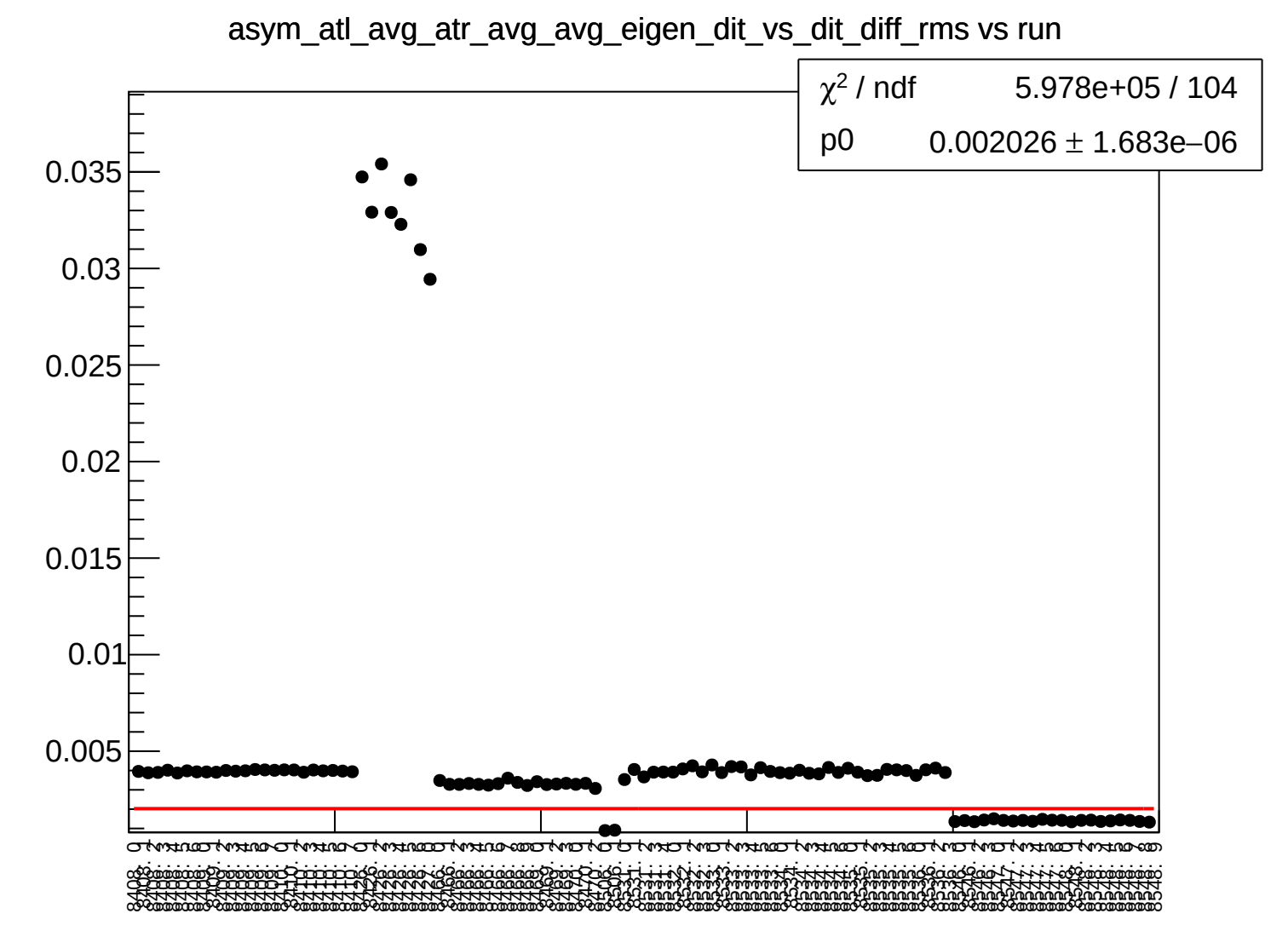

asym_atl_avg_atr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.624e+05 / 104
p0 171.7 ± 0.1364
800
700
600
500
400
300
200
100

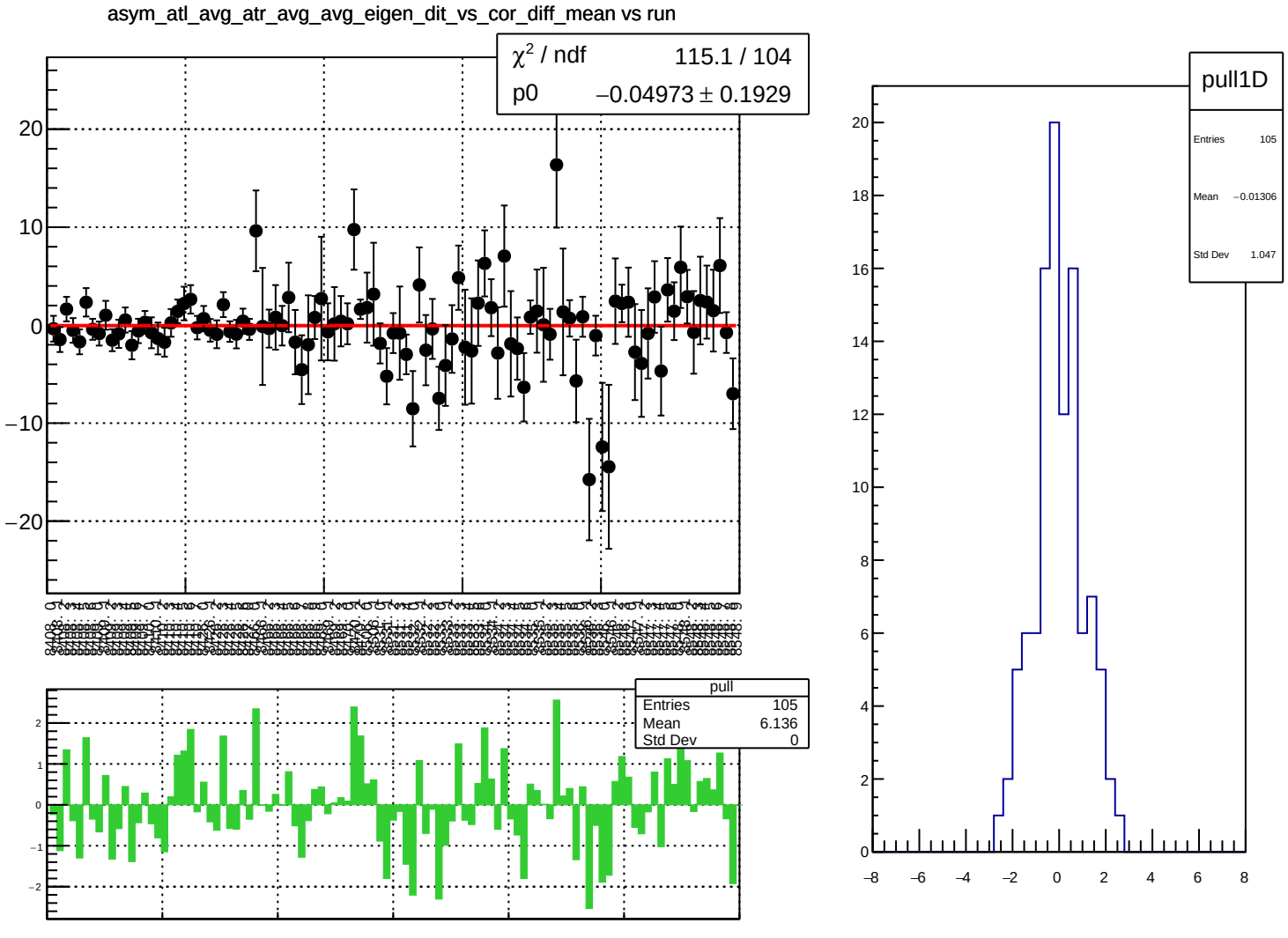

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 115.1 / 104
p0 −0.04972 ± 0.1929
20
10
0
−10
−20
pull
Entries 105
Mean 6.148
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.01306
Std Dev 1.047
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

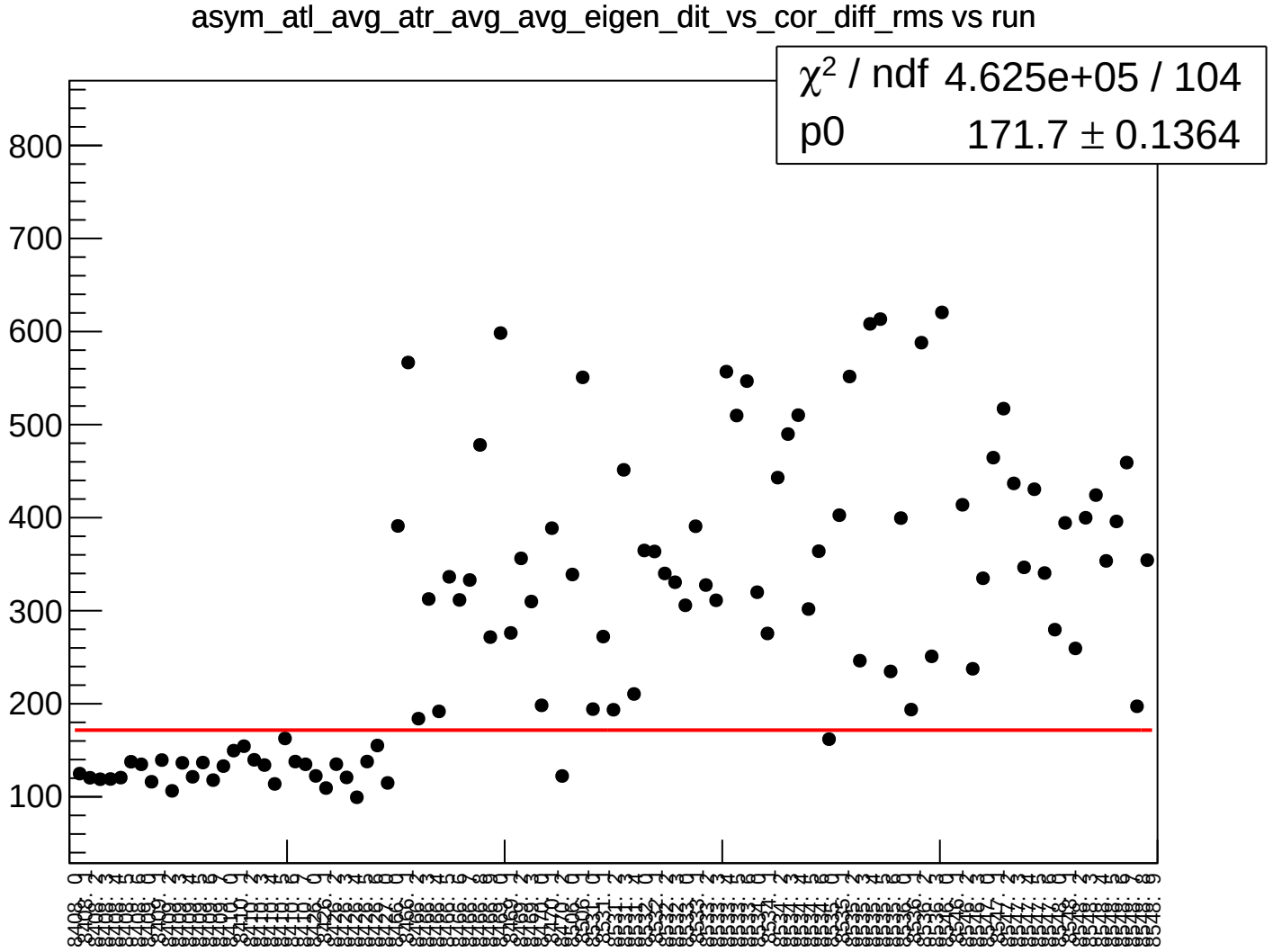

asym_atl_avg_atr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.624e+05 / 104
p0 171.7 ± 0.1364
800
700
600
500
400
300
200
100

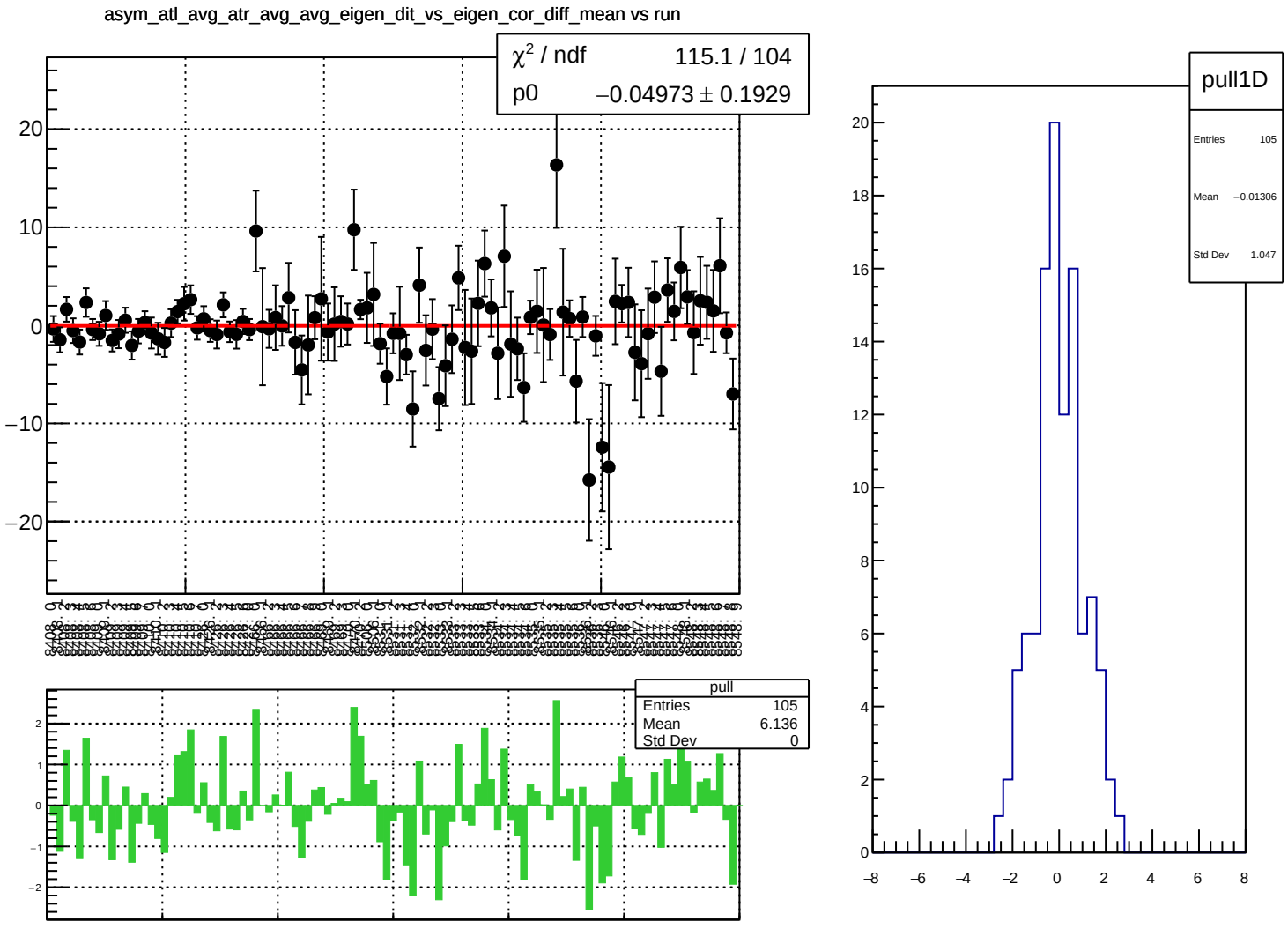

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 125.1 / 104
p0 −7.248e−06 ± 2.38e−06
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 105
Mean 154.1
Std Dev 0
2
1
0
−1
−2

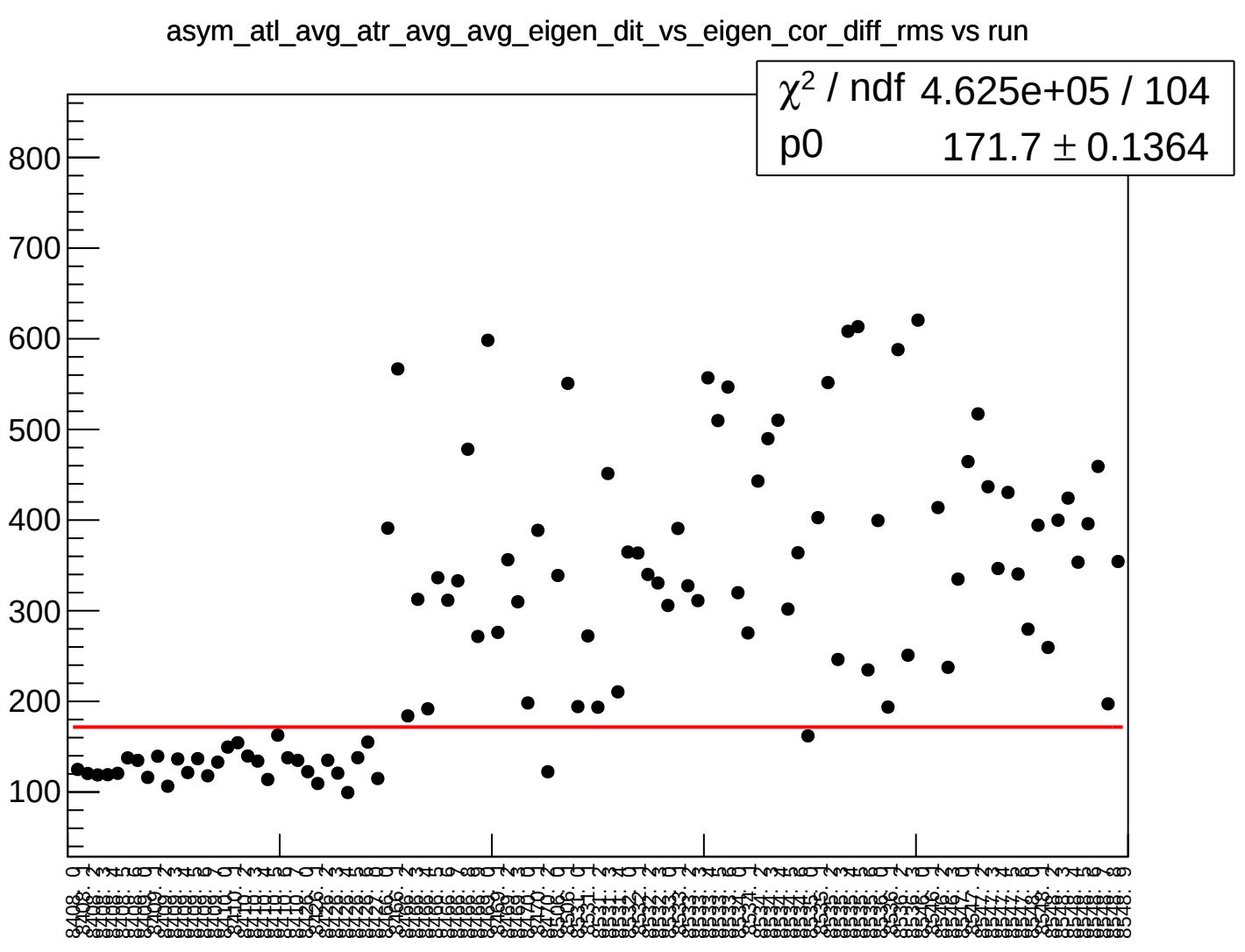

pull1D
Entries 105
Mean 0.04192
Std Dev 1.091
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

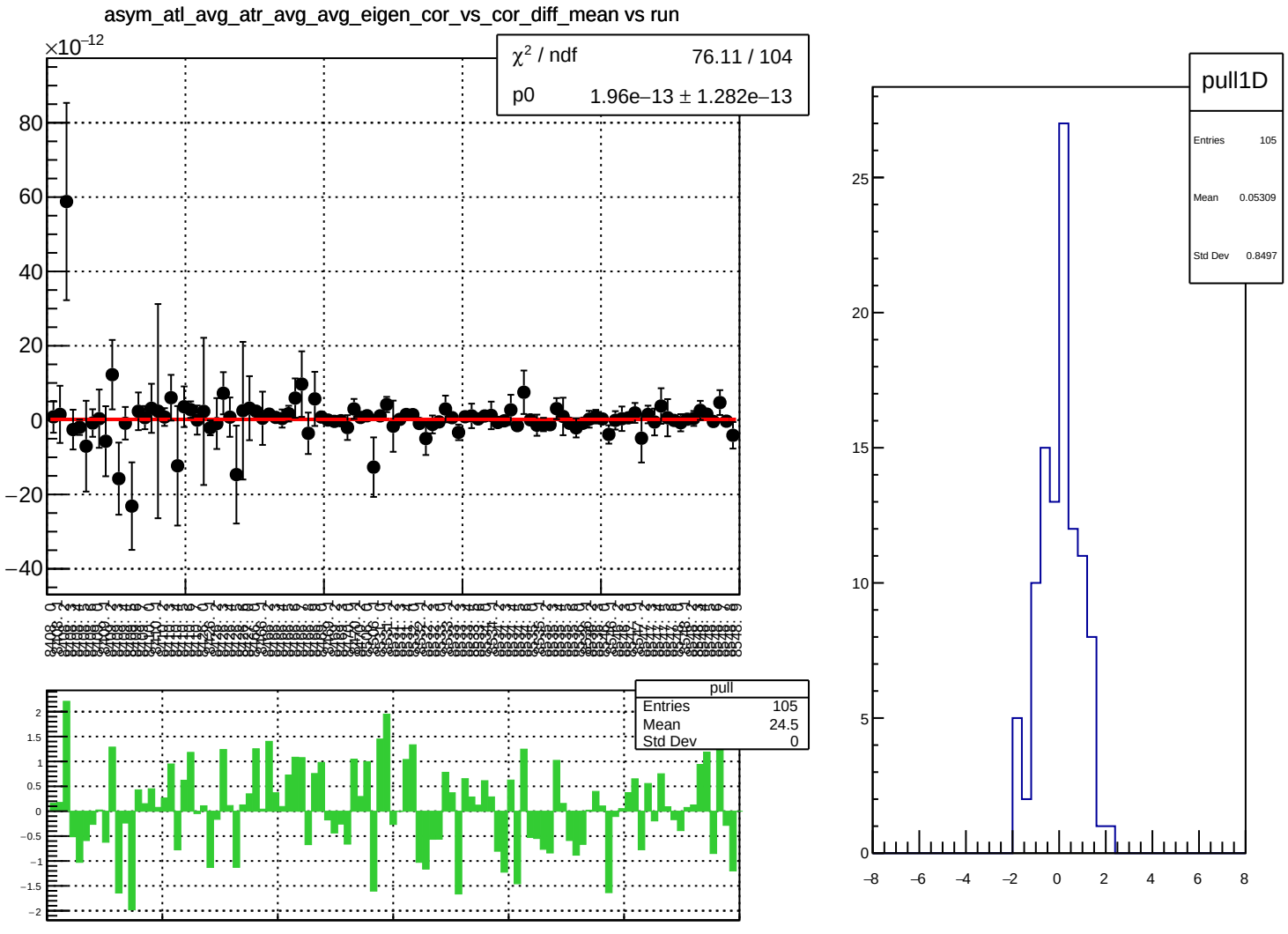

asym_atl_avg_atr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.978e+05 / 104
p0 0.002026 ± 1.683e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

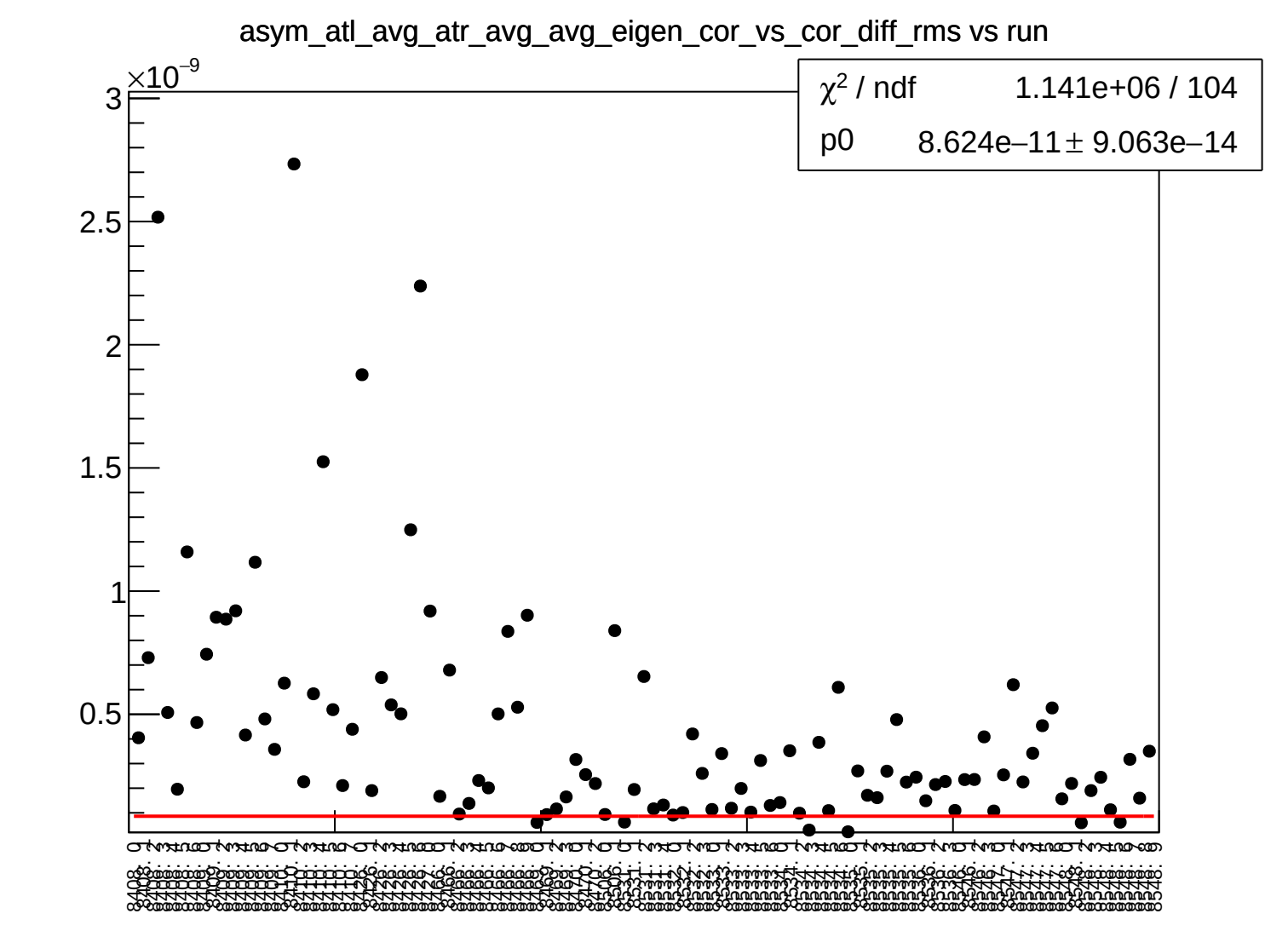

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 115.1 / 104
p0 −0.04973 ± 0.1929
20
10
0
−10
−20
pull
Entries 105
Mean 6.136
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.01306
Std Dev 1.047
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

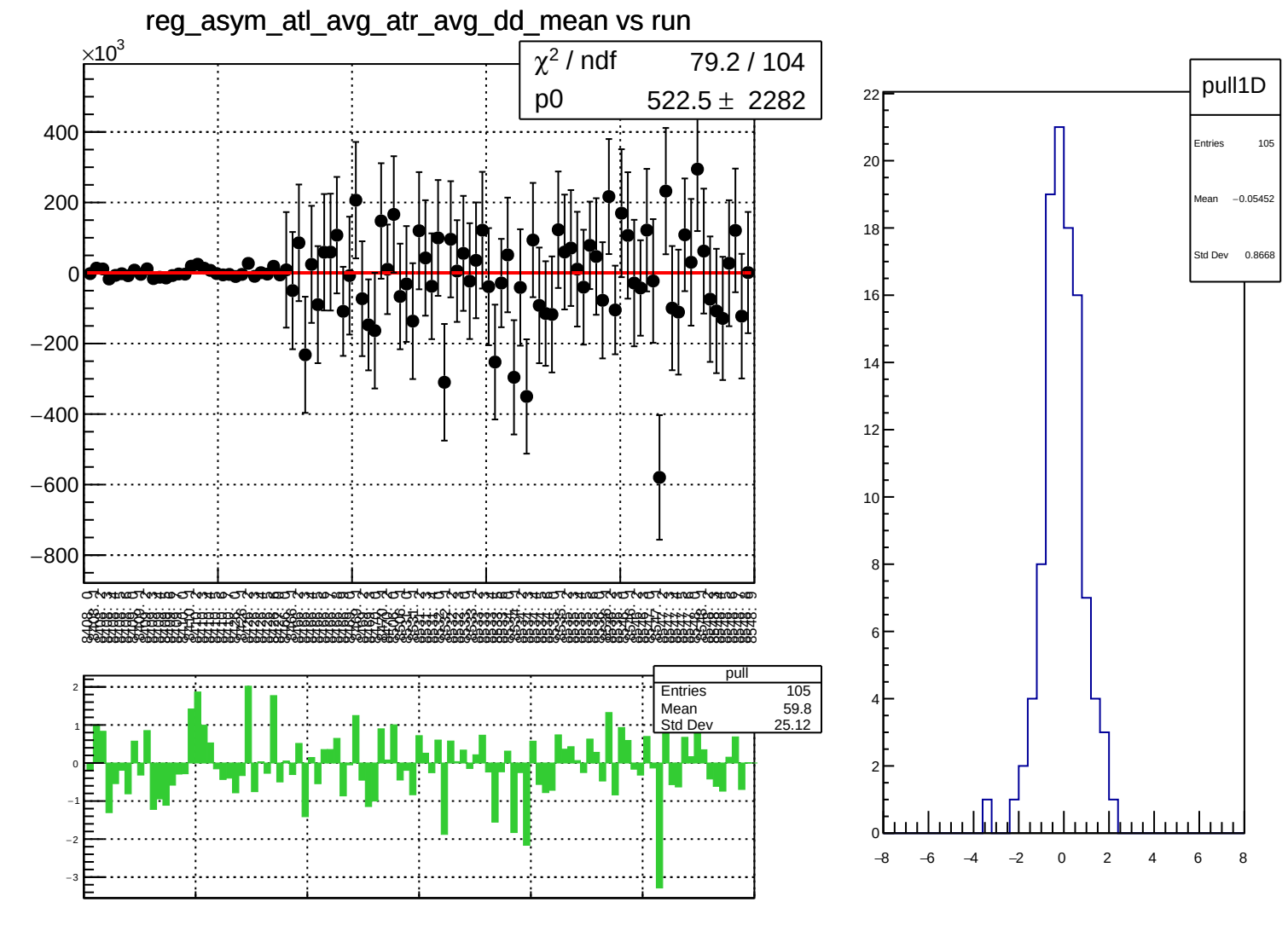

asym_atl_avg_atr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.625e+05 / 104
p0 171.7 ± 0.1364
800
700
600
500
400
300
200
100

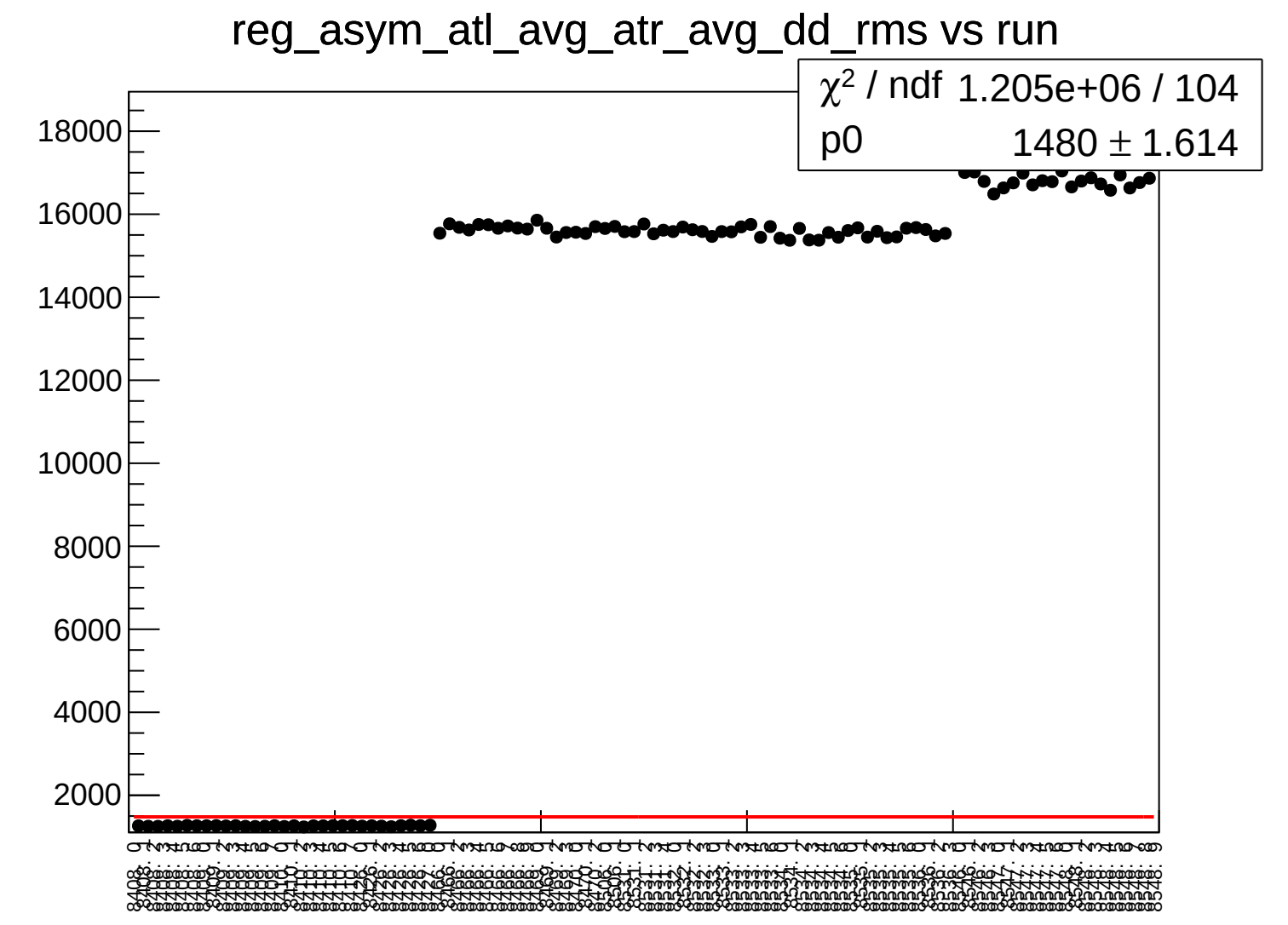

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 115.1 / 104
p0 −0.04973 ± 0.1929
20
10
0
−10
−20
pull
Entries 105
Mean 6.136
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.01306
Std Dev 1.047
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

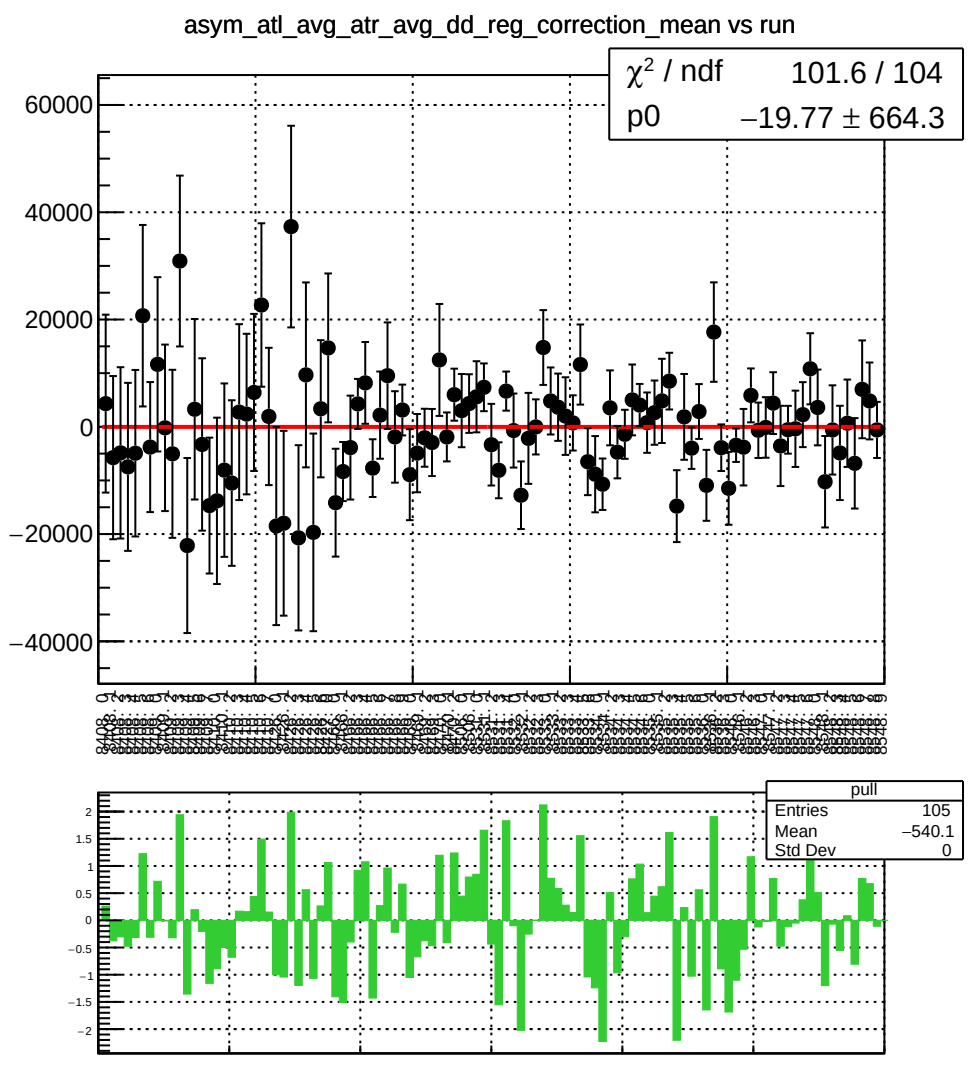

asym_atl_avg_atr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.625e+05 / 104
p0 171.7 ± 0.1364
800
700
600
500
400
300
200
100

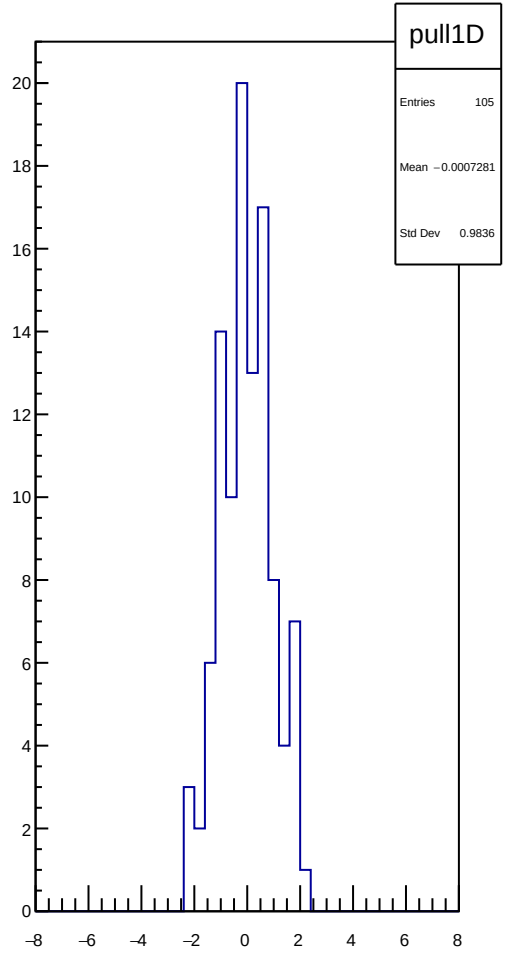

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 76.11 / 104
p0 1.96e−13 ± 1.282e−13
80
60
40
20
0
−20
−40
pull
Entries 105
Mean 24.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 105
Mean 0.05309
Std Dev 0.8497
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

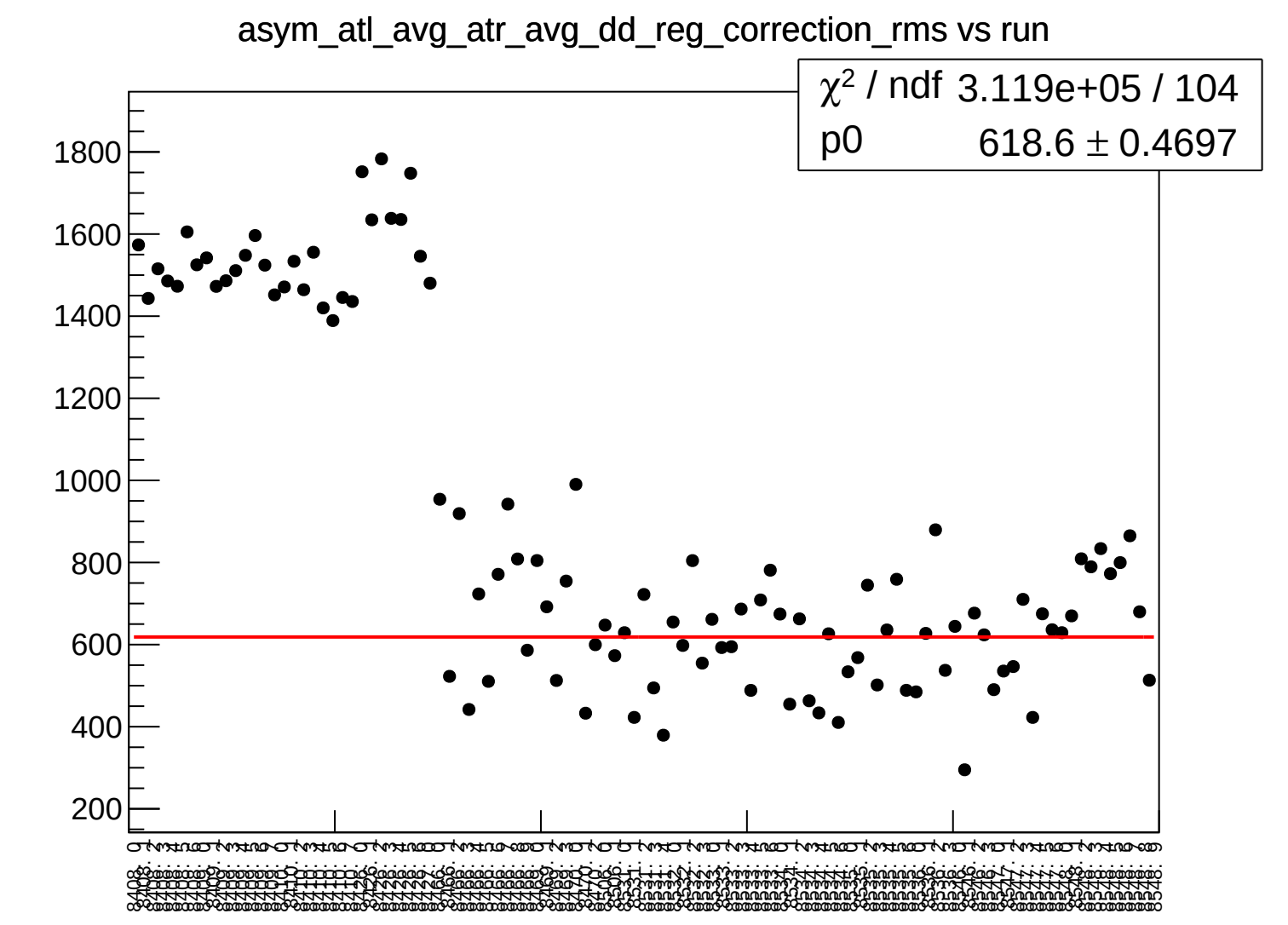

asym_atl_avg_atr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
3
2.5
2
1.5
1
0.5
χ² / ndf 1.141e+06 / 104
p0 8.624e−11 ± 9.063e−14

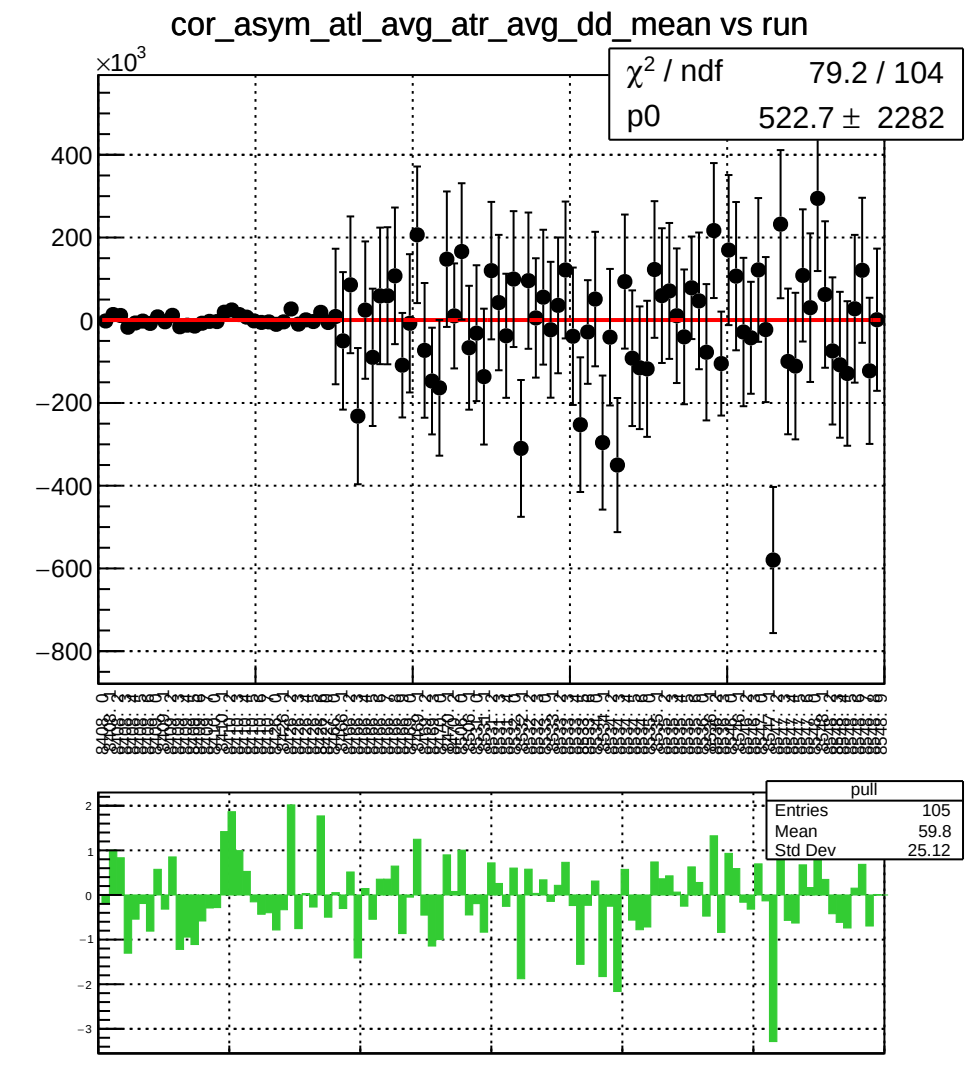

reg_asym_atl_avg_atr_avg_dd_mean vs run
×10^3
χ^2 / ndf 79.2 / 104
p0 522.5 ± 2282
pull
Entries 105
Mean 59.8
Std Dev 25.12
pull1D
Entries 105
Mean −0.05452
Std Dev 0.8668

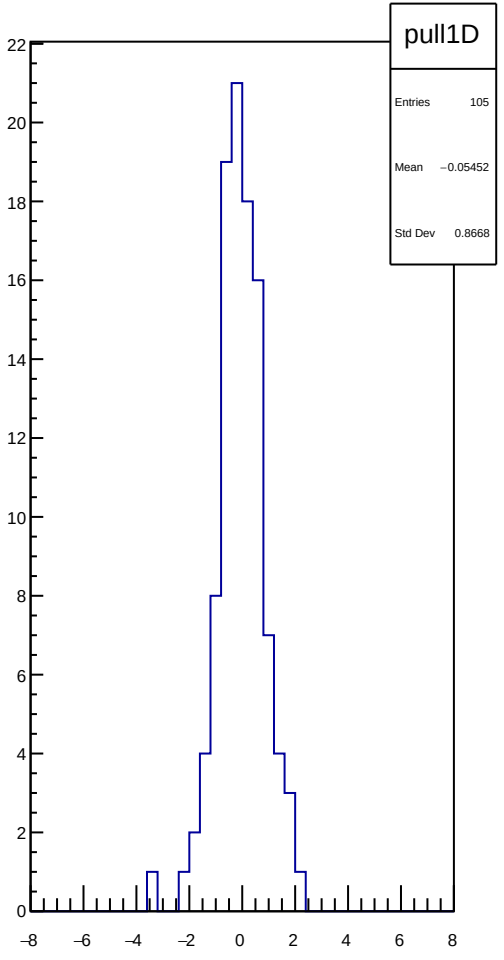

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 1.205e+06 / 104
p0 1480 ± 1.614
18000
16000
14000
12000
10000
8000
6000
4000
2000

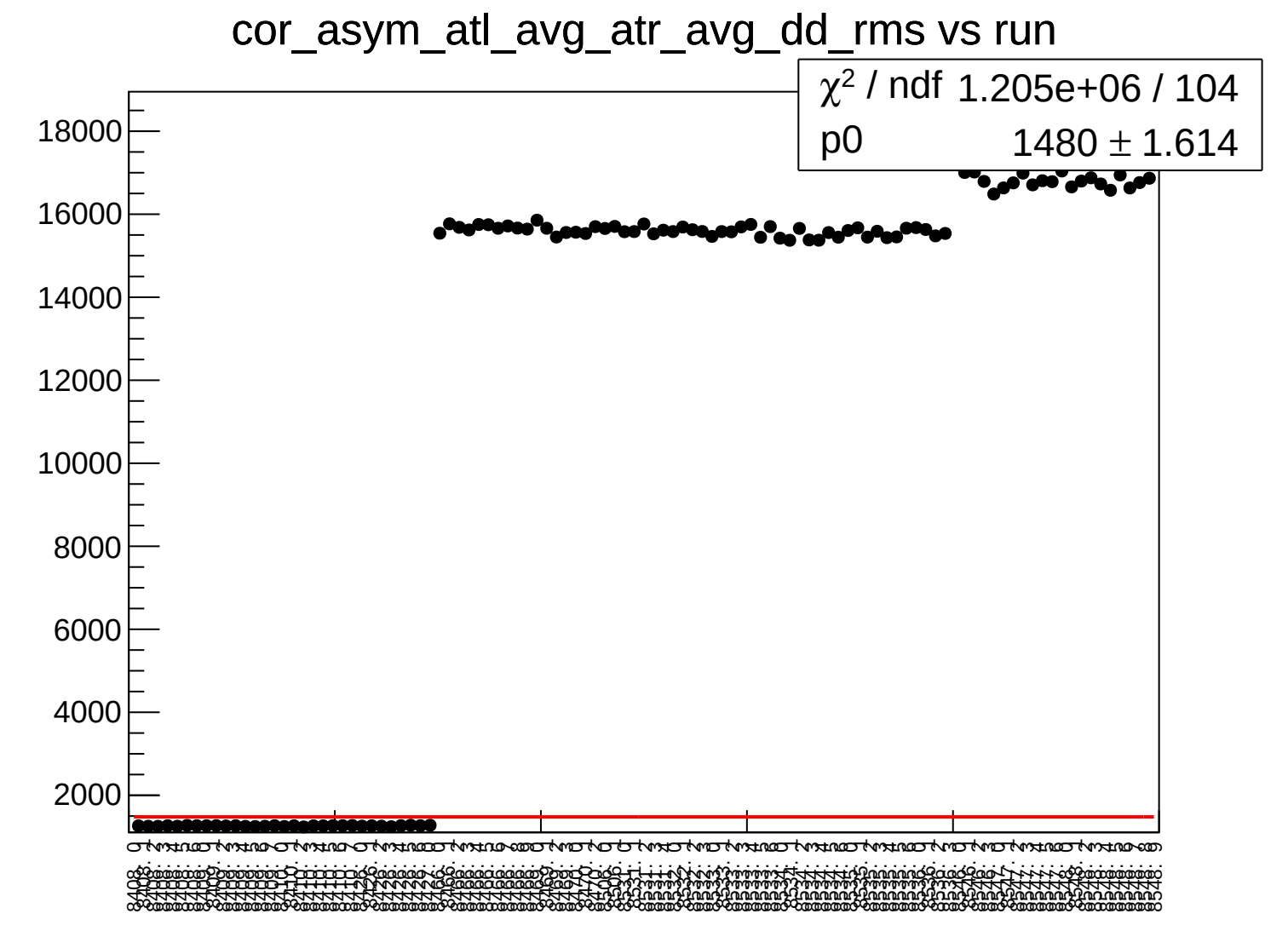

asym_atl_avg_atr_avg_dd_reg_correction_mean vs run
χ² / ndf 101.6 / 104
p0 −19.77 ± 664.3
60000
40000
20000
0
−20000
−40000
pull
Entries 105
Mean −540.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

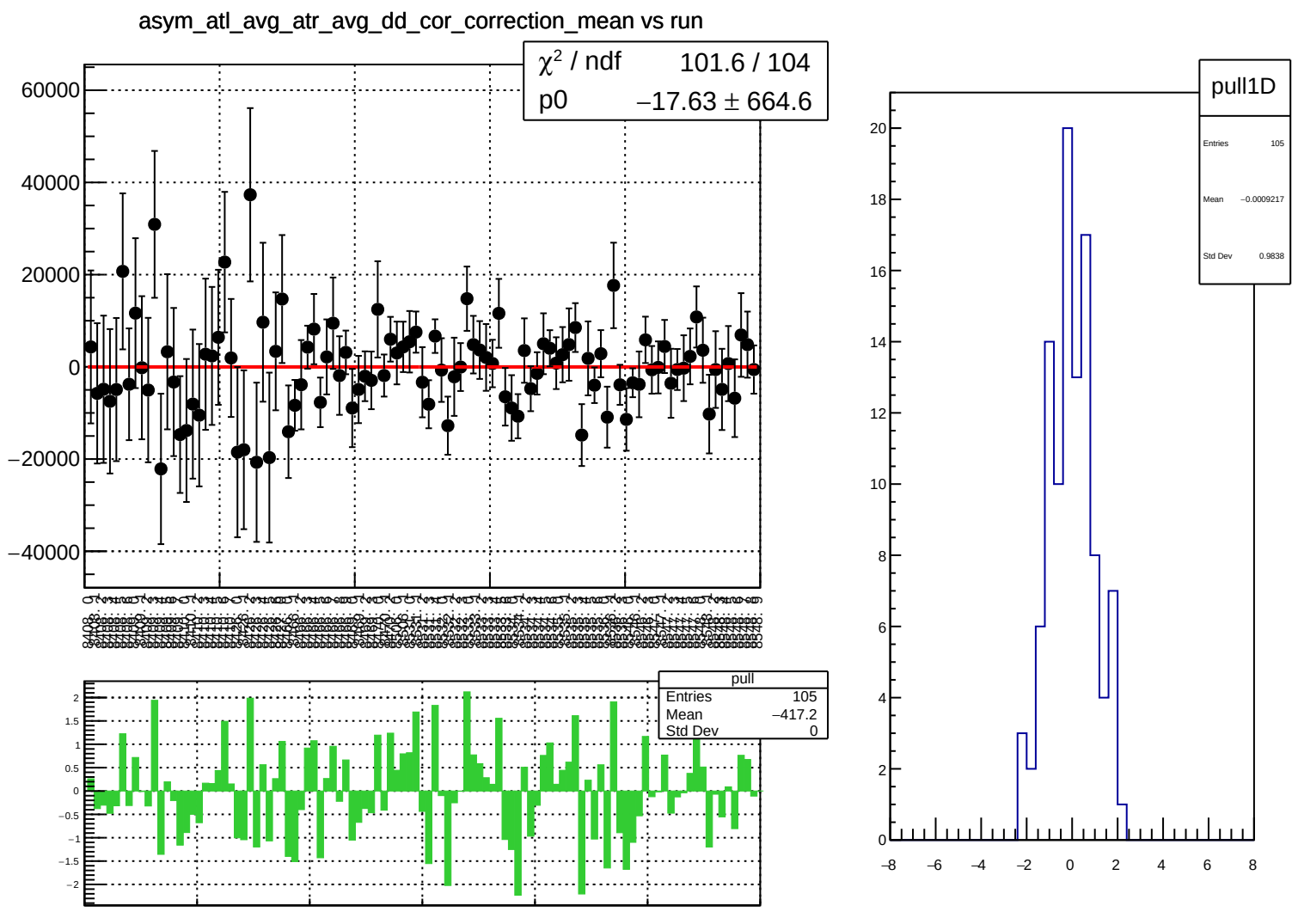

pull1D
Entries 105
Mean −0.0007281
Std Dev 0.9836
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

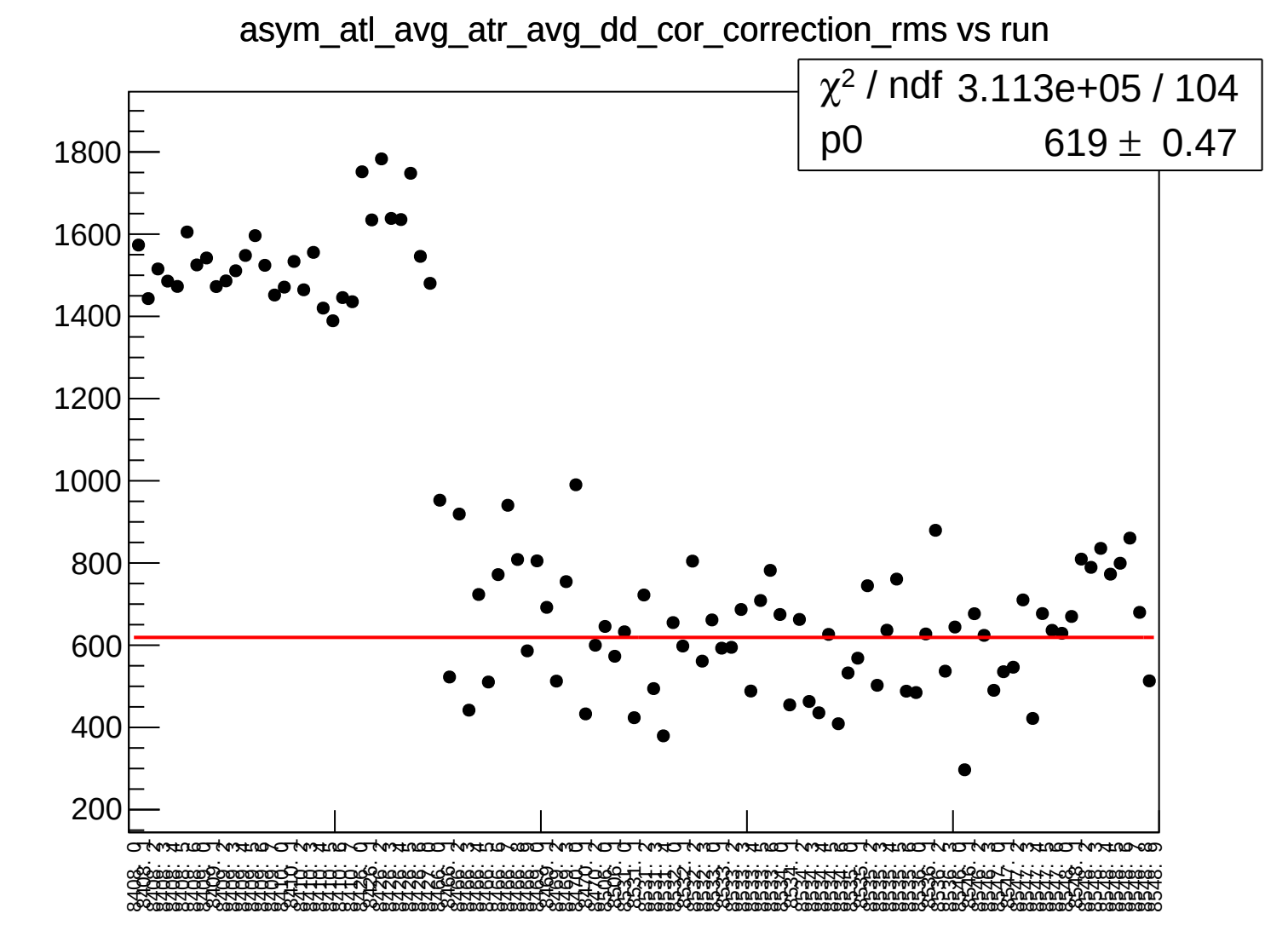

asym_atl_avg_atr_avg_dd_reg_correction_rms vs run
χ² / ndf 3.119e+05 / 104
p0 618.6 ± 0.4697
1800
1600
1400
1200
1000
800
600
400
200

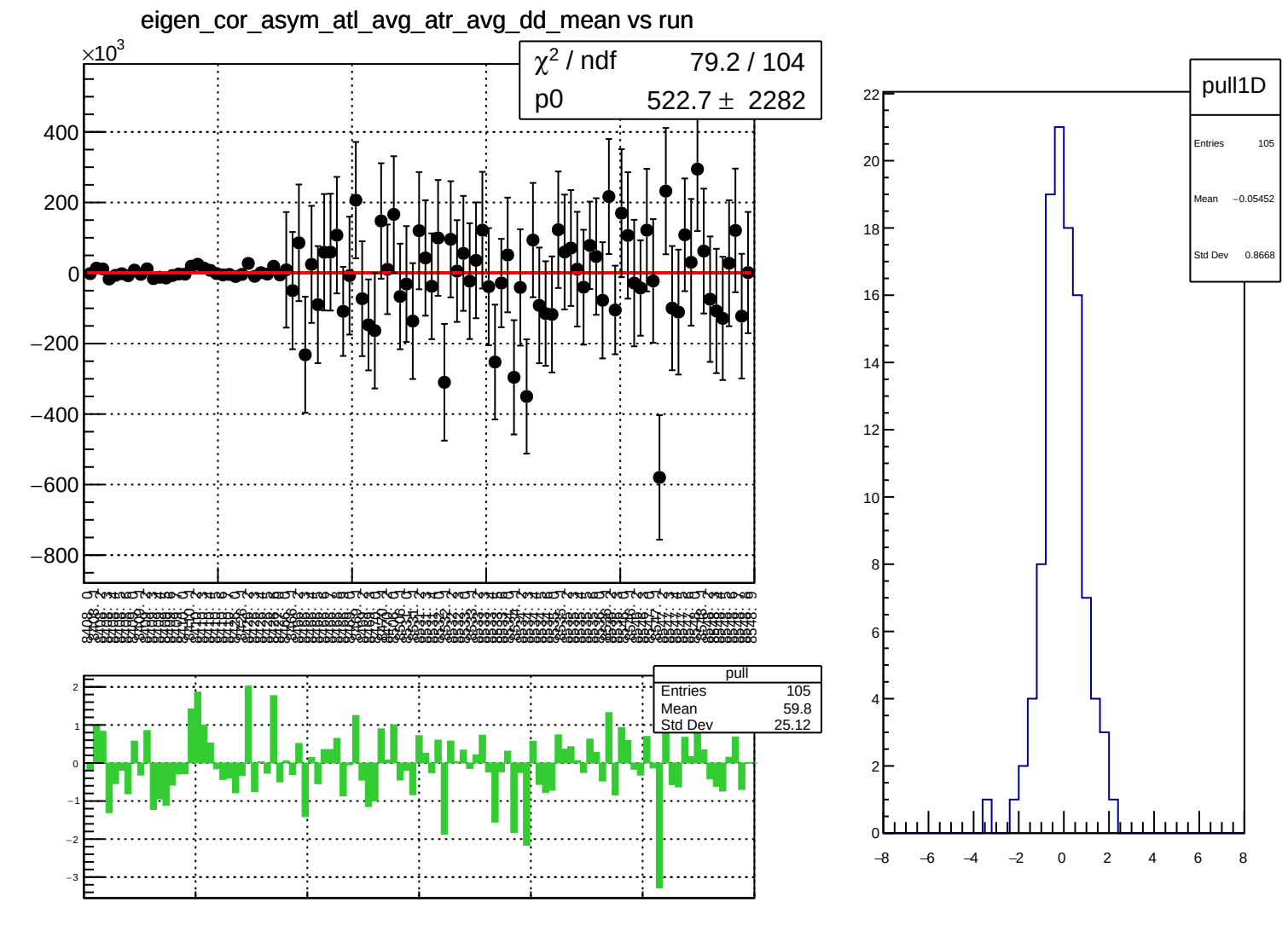

cor_asym_atl_avg_atr_avg_dd_mean vs run
×10^3
χ^2 / ndf 79.2 / 104
p0 522.7 ± 2282
400
200
0
−200
−400
−600
−800
pull
Entries 105
Mean 59.8
Std Dev 25.12
2
1
0
−1
−2
−3

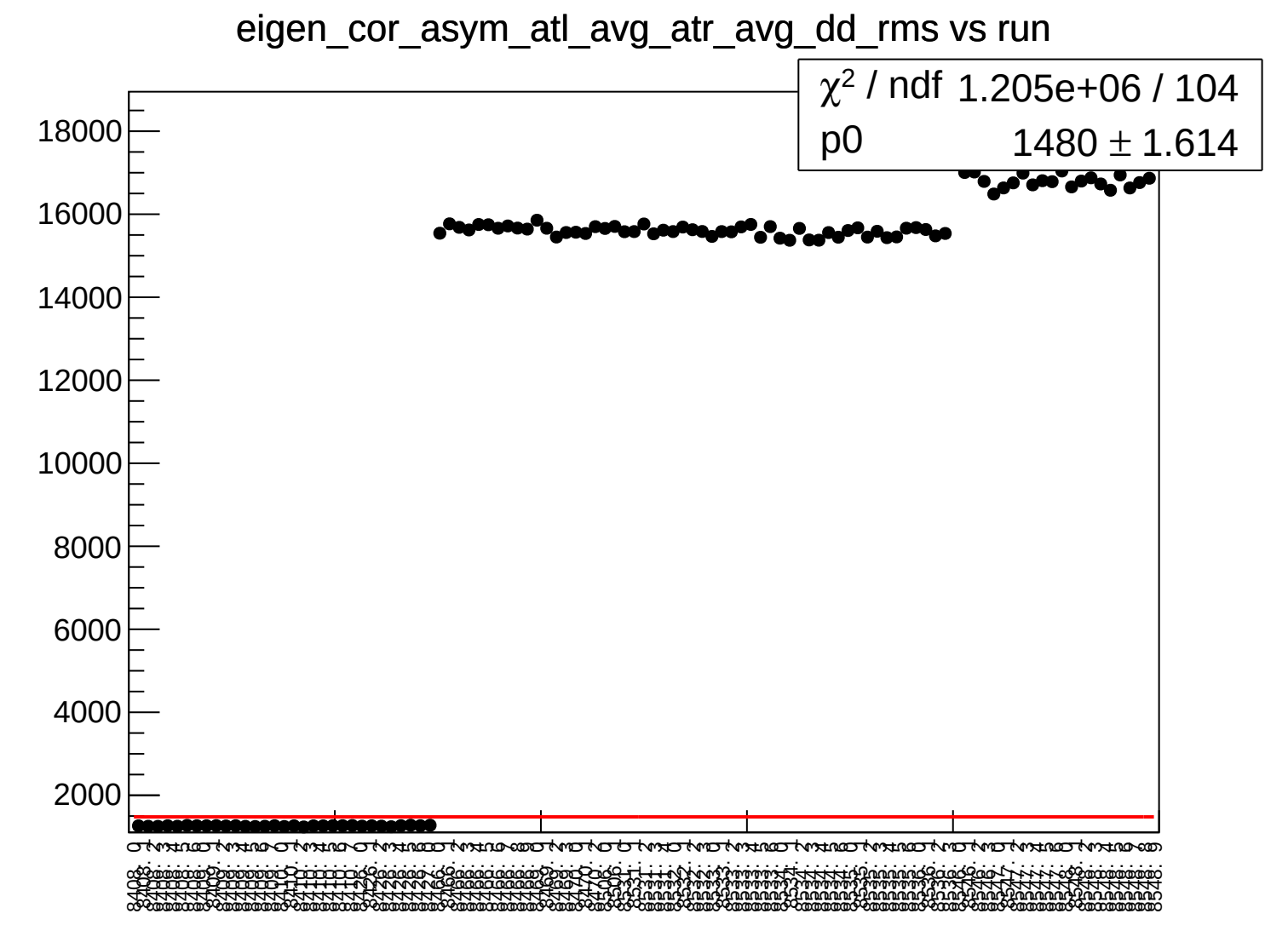

pull1D
Entries 105
Mean −0.05452
Std Dev 0.8668
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

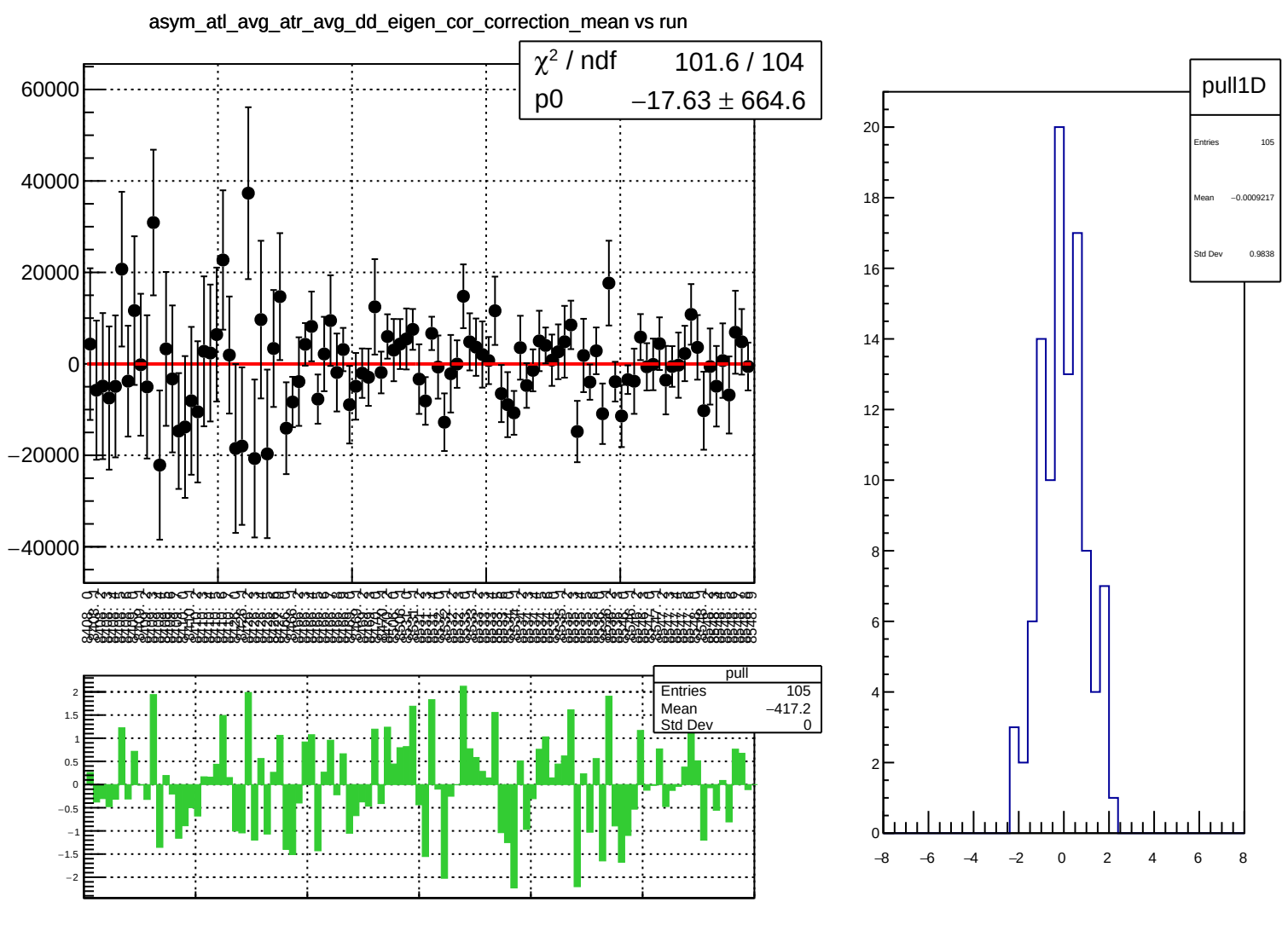

cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 1.205e+06 / 104
p0 1480 ± 1.614
18000
16000
14000
12000
10000
8000
6000
4000
2000

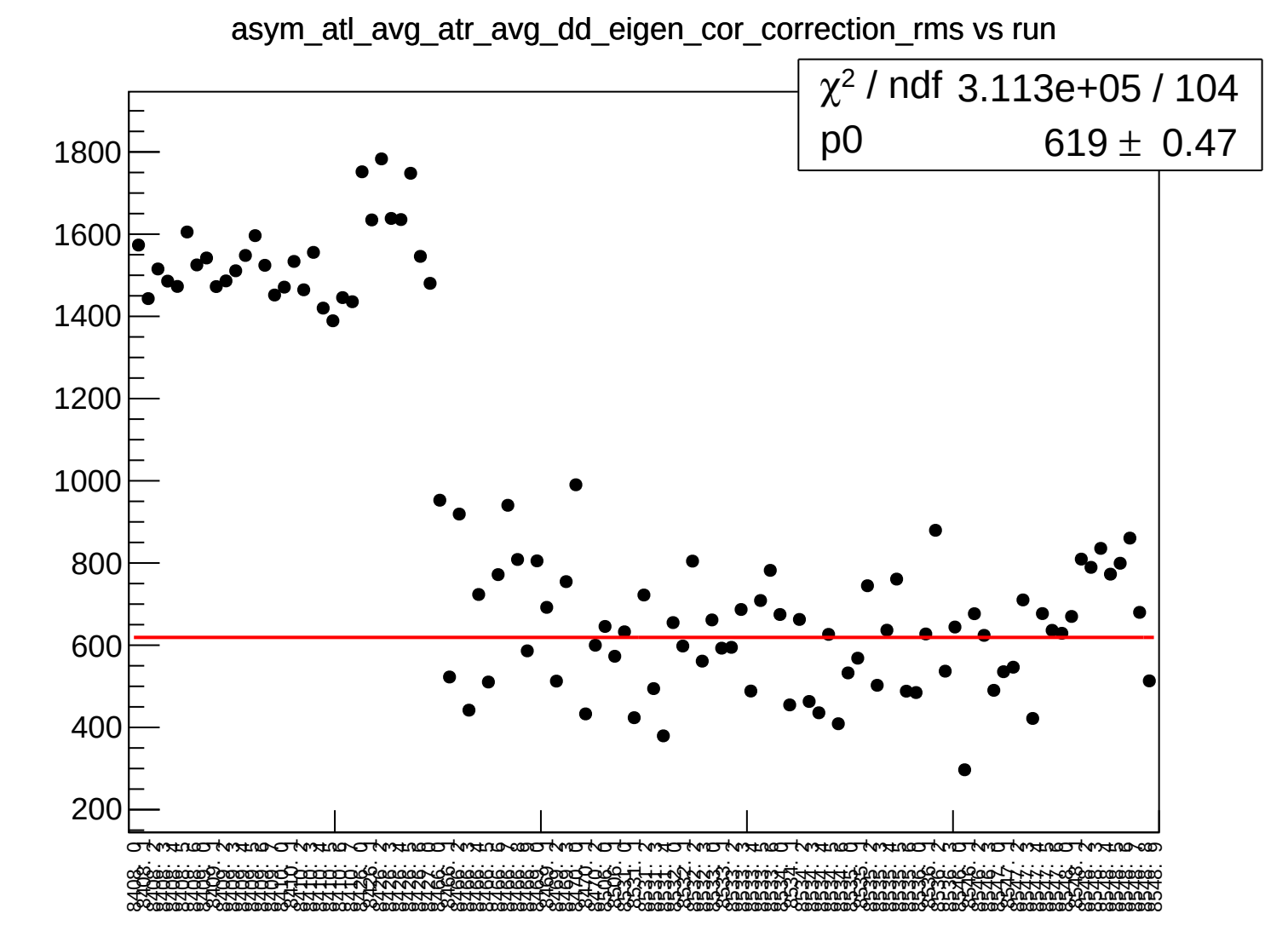

asym_atl_avg_atr_avg_dd_cor_correction_mean vs run
χ² / ndf 101.6 / 104
p0 −17.63 ± 664.6
60000
40000
20000
0
−20000
−40000
pull
Entries 105
Mean −417.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 105
Mean −0.0009217
Std Dev 0.9838
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

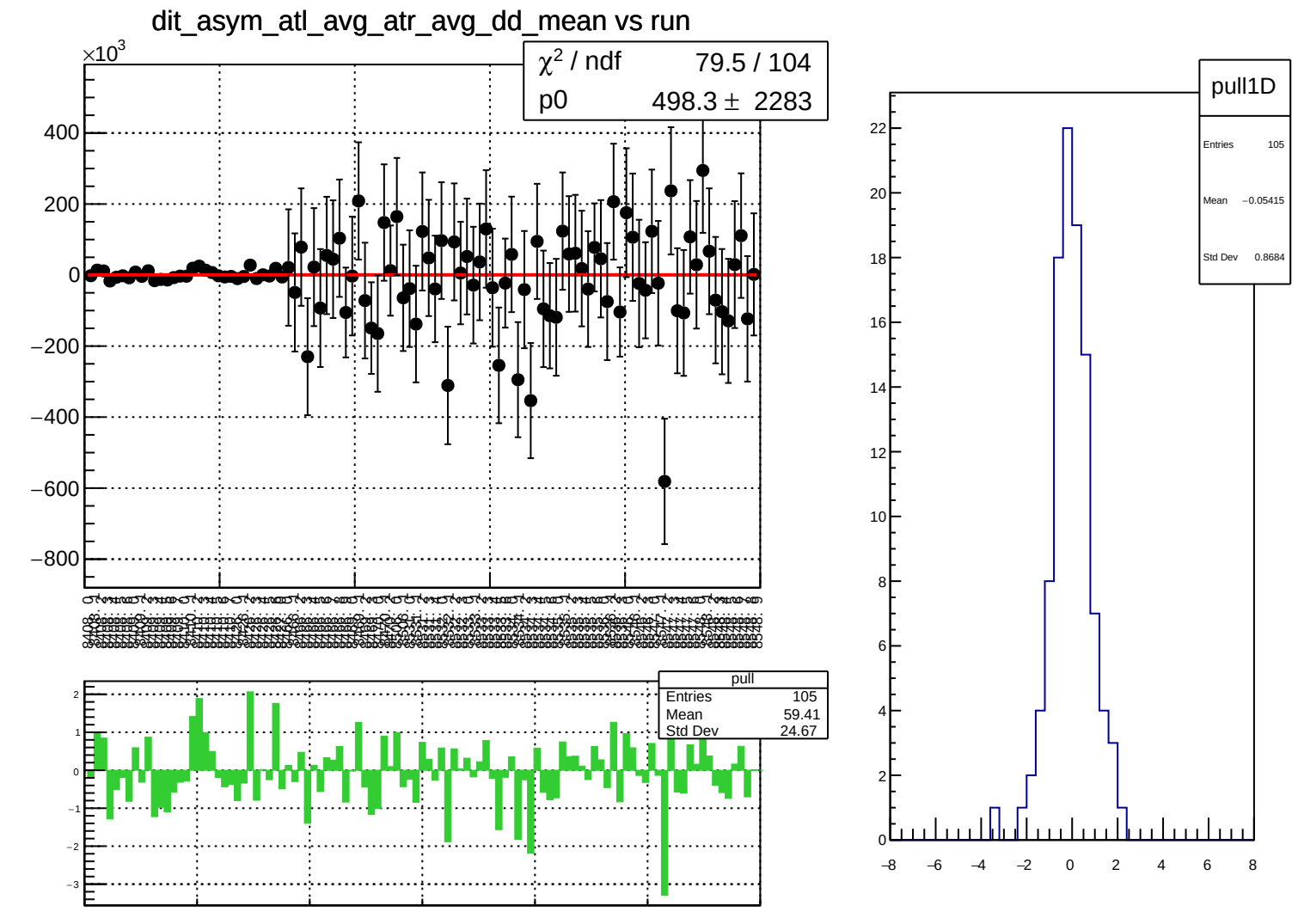

asym_atl_avg_atr_avg_dd_cor_correction_rms vs run
χ² / ndf 3.113e+05 / 104
p0 619 ± 0.47
1800
1600
1400
1200
1000
800
600
400
200

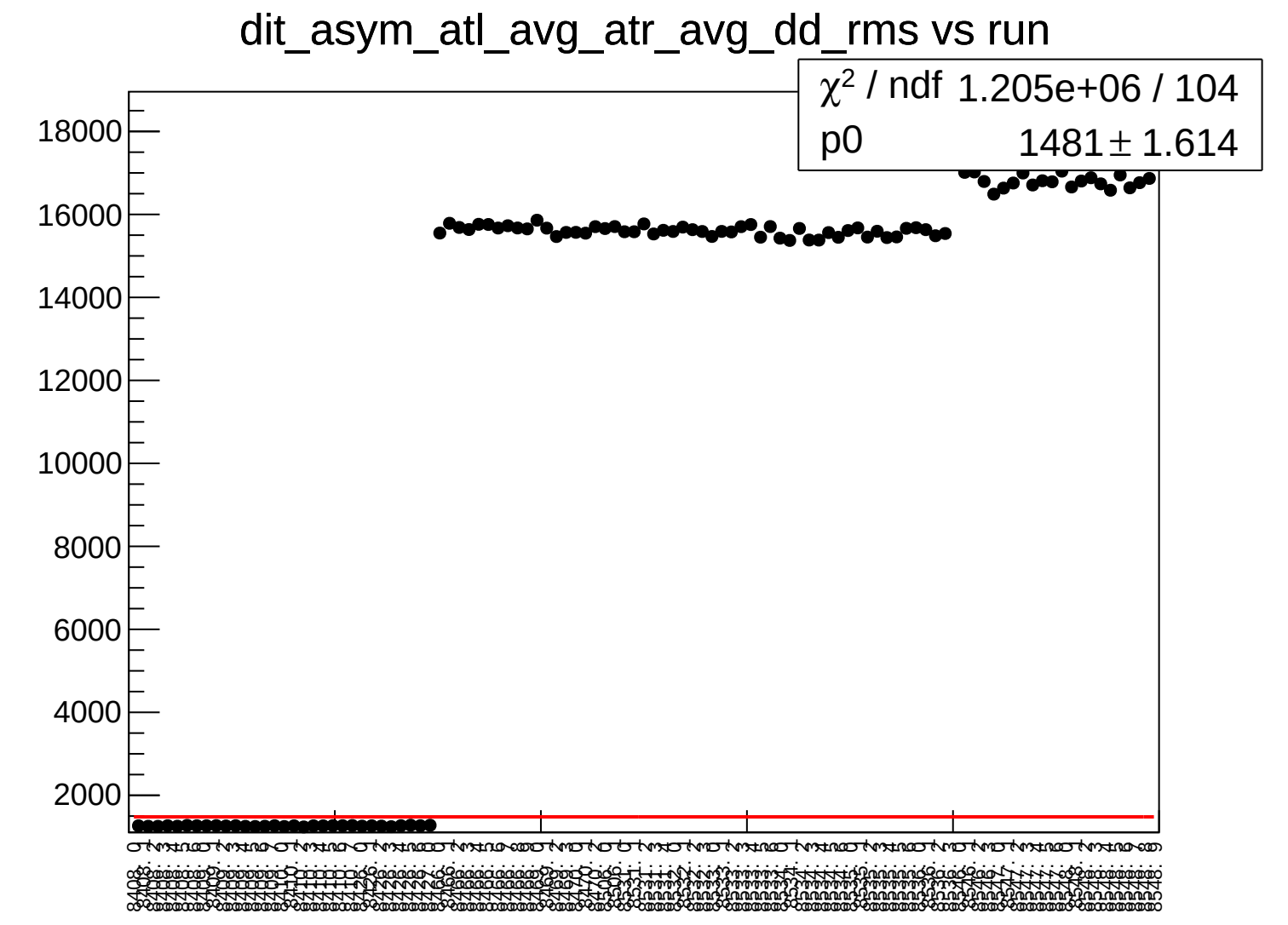

eigen_cor_asym_atl_avg_atr_avg_dd_mean vs run
×10^3
χ² / ndf 79.2 / 104
p0 522.7 ± 2282
400
200
0
−200
−400
−600
−800
pull
Entries 105
Mean 59.8
Std Dev 25.12
2
1
0
−1
−2
−3
pull1D
Entries 105
Mean −0.05452
Std Dev 0.8668
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

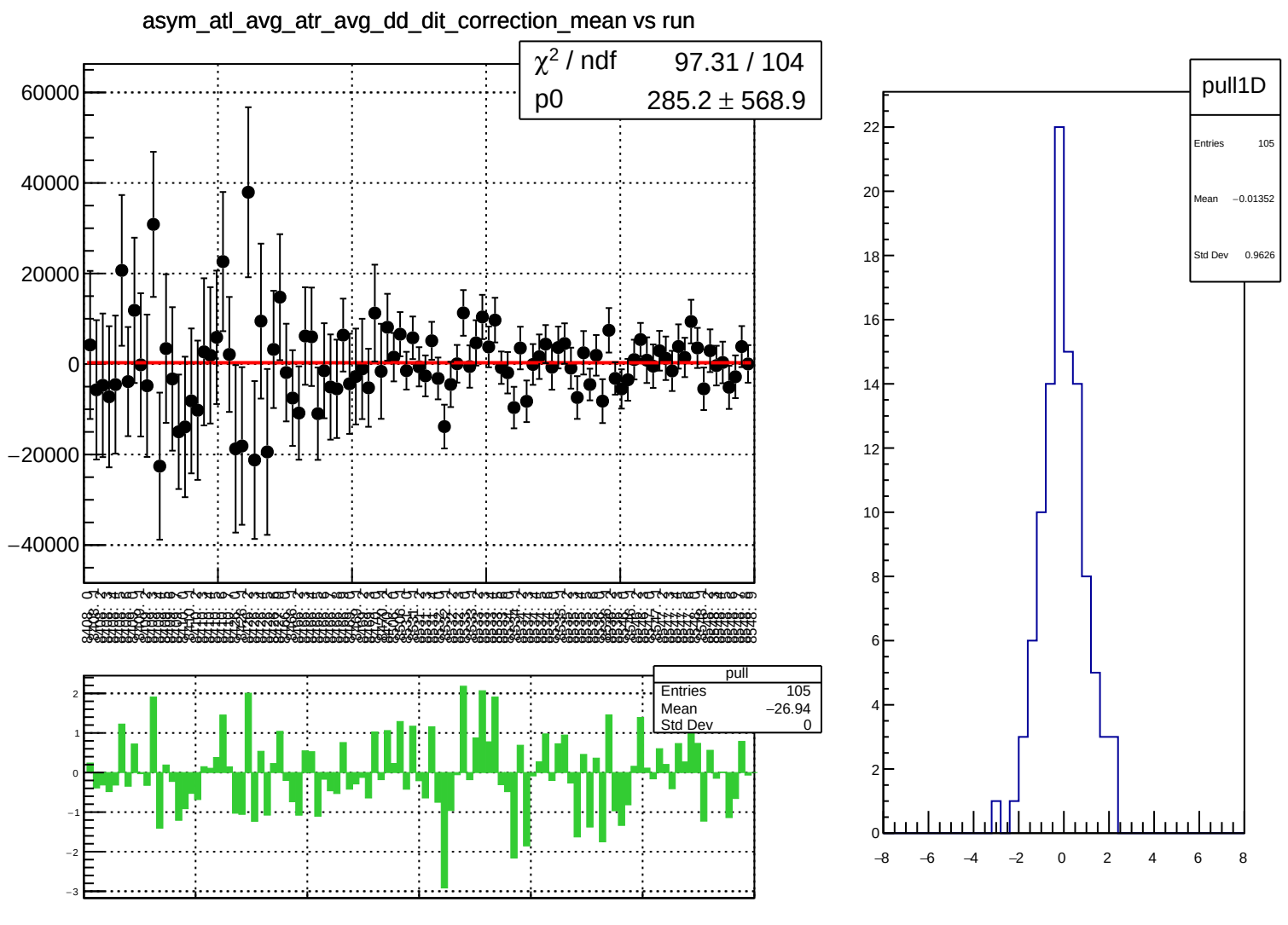

eigen_cor_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 1.205e+06 / 104
p0 1480 ± 1.614
18000
16000
14000
12000
10000
8000
6000
4000
2000

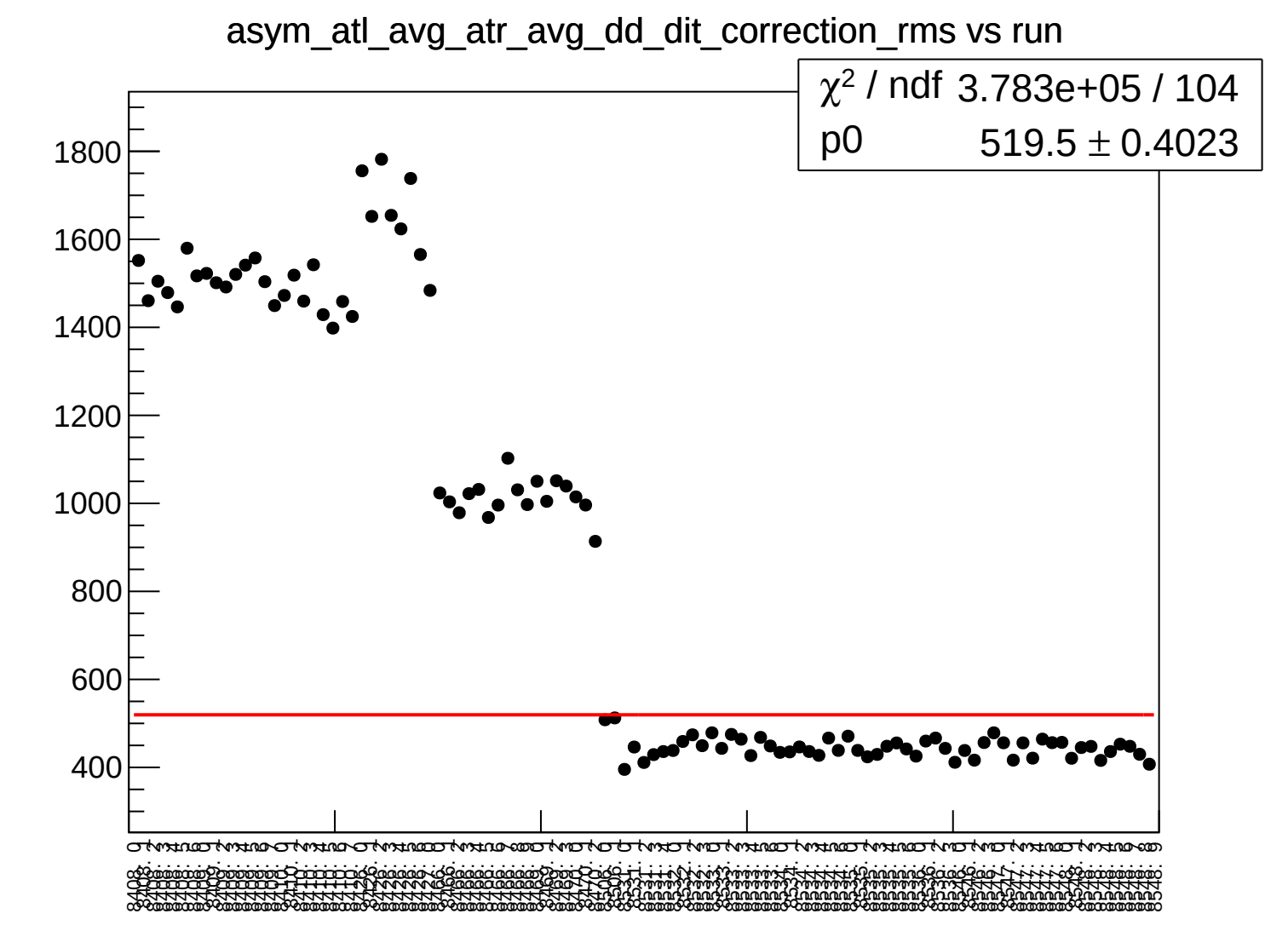

asym_atl_avg_atr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 101.6 / 104
p0 −17.63 ± 664.6
60000
40000
20000
0
−20000
−40000
pull
Entries 105
Mean −417.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 105
Mean −0.0009217
Std Dev 0.9838
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

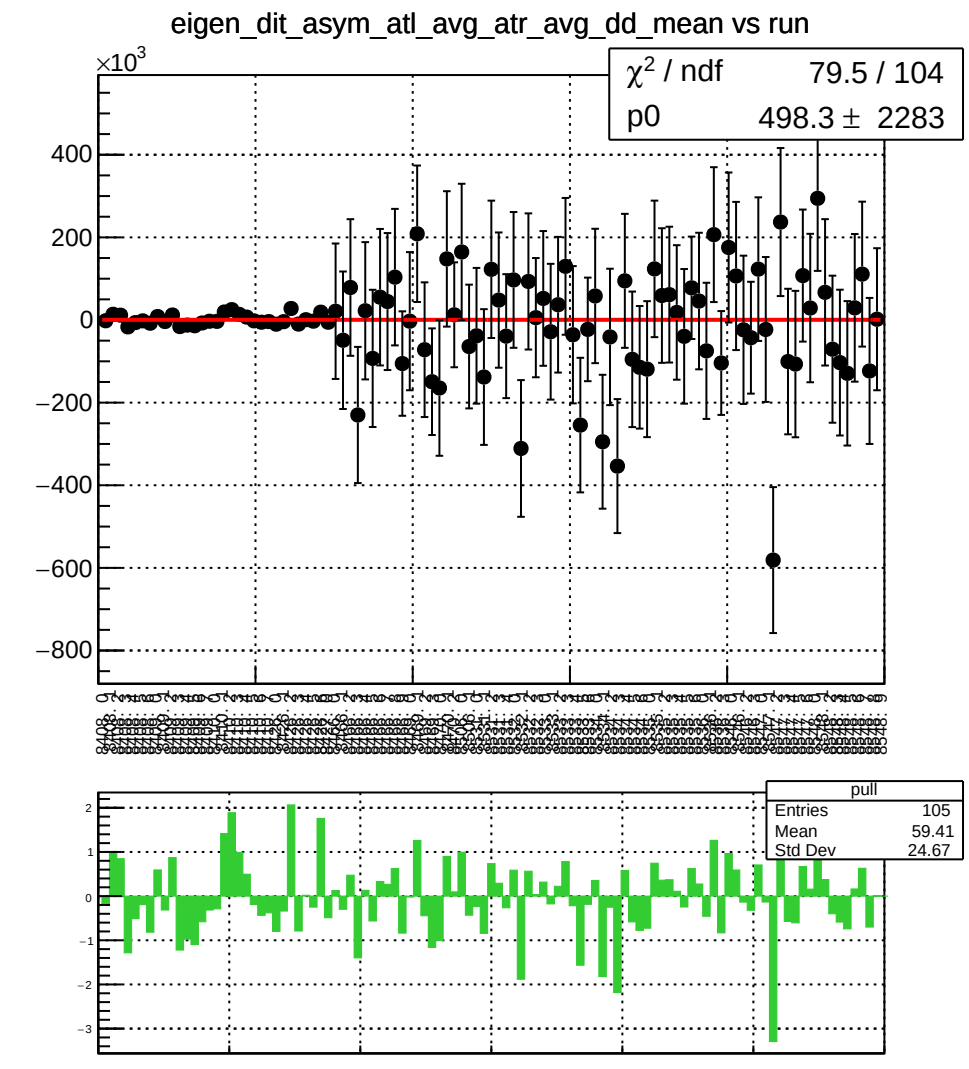

asym_atl_avg_atr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.113e+05 / 104
p0 619 ± 0.47
1800
1600
1400
1200
1000
800
600
400
200

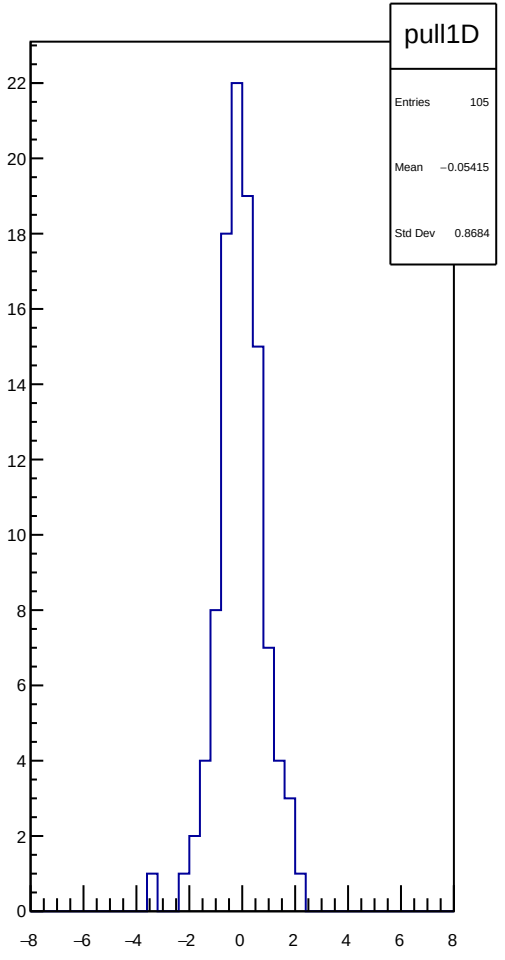

dit_asym_atl_avg_atr_avg_dd_mean vs run
×10^3
χ^2 / ndf 79.5 / 104
p0 498.3 ± 2283
400
200
0
−200
−400
−600
−800
pull
Entries 105
Mean 59.41
Std Dev 24.67
2
1
0
−1
−2
−3
pull1D
Entries 105
Mean −0.05415
Std Dev 0.8684
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

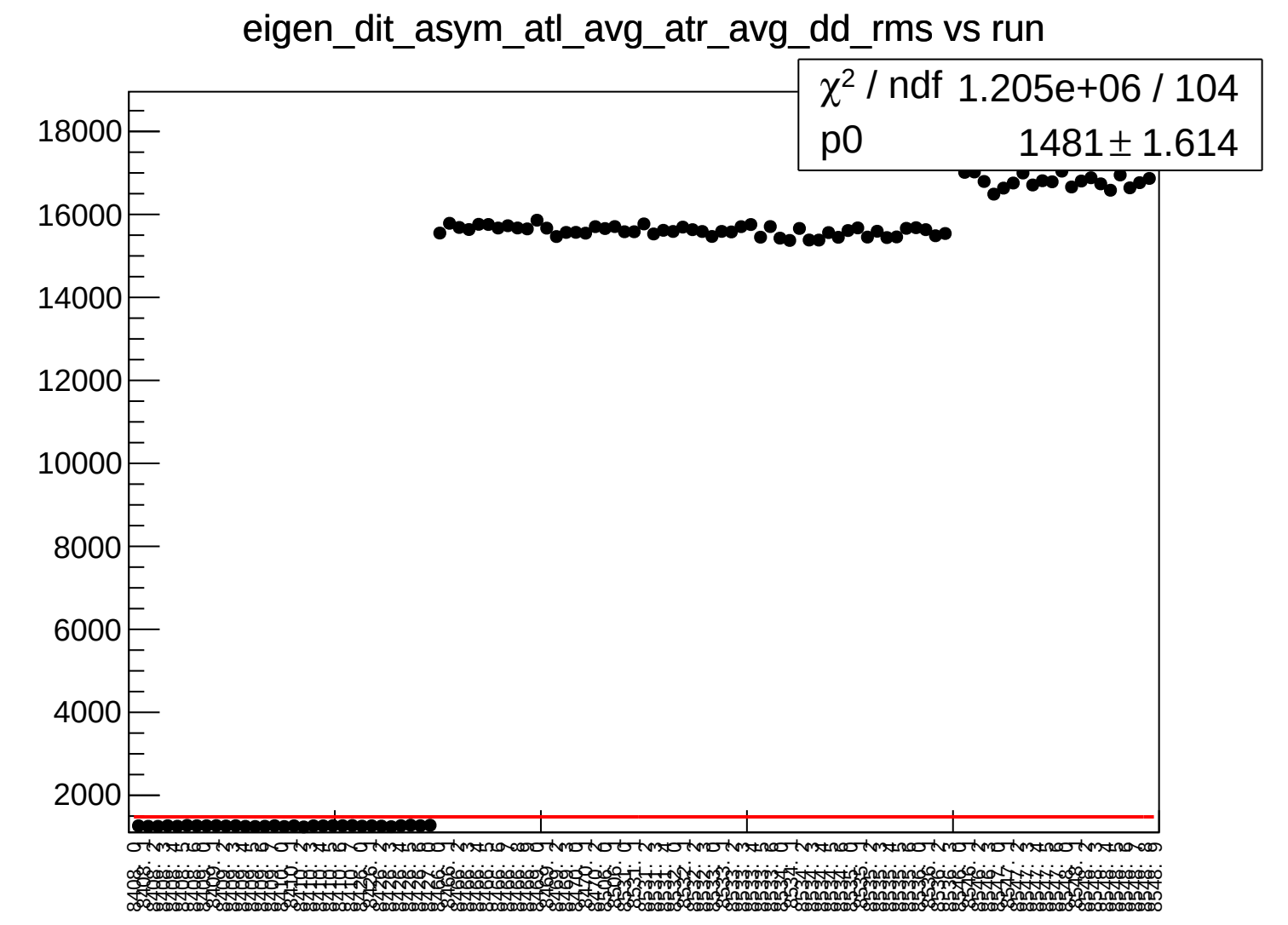

dit_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 1.205e+06 / 104
p0 1481 ± 1.614
18000
16000
14000
12000
10000
8000
6000
4000
2000

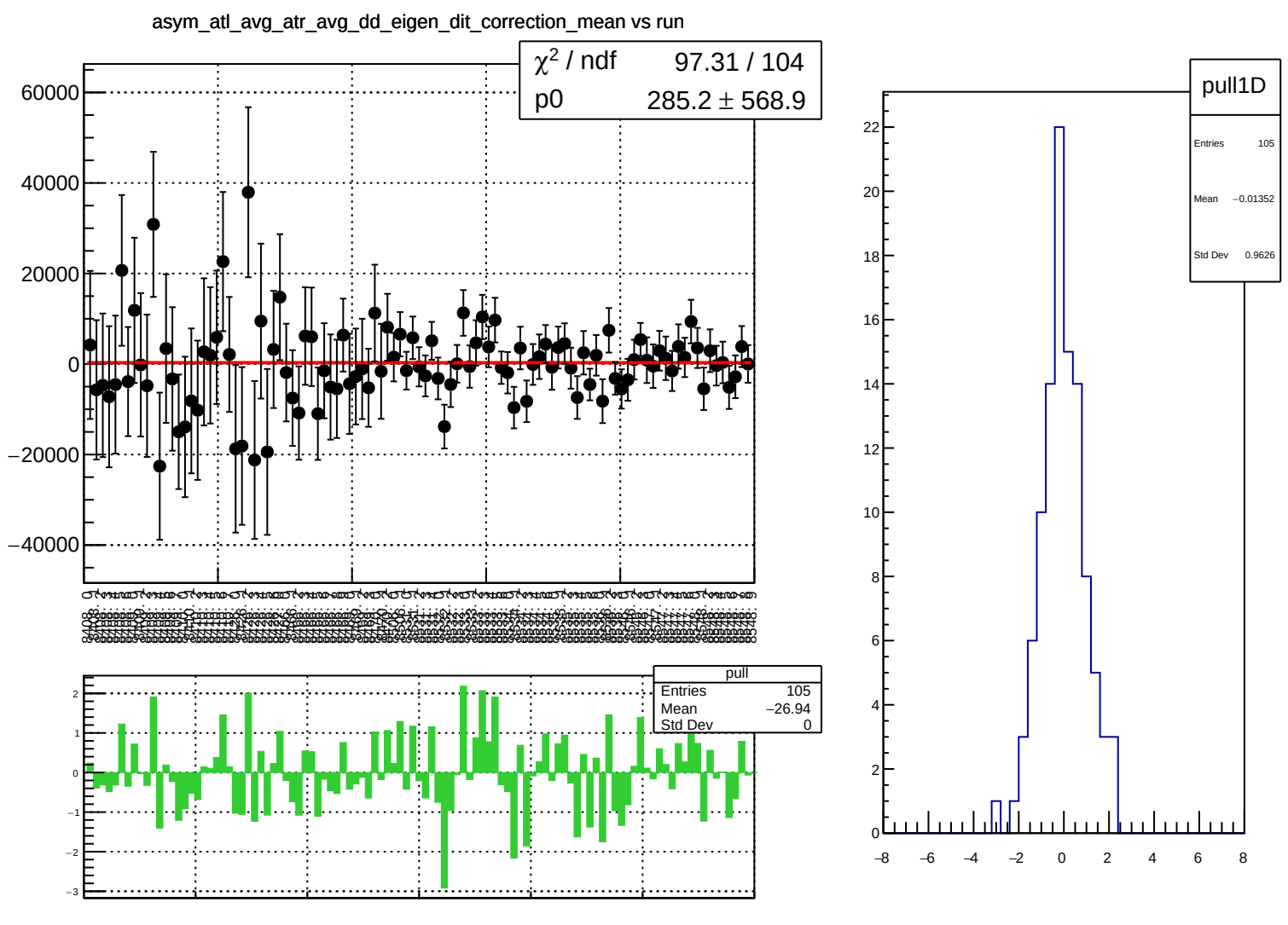

asym_atl_avg_atr_avg_dd_dit_correction_mean vs run
χ² / ndf 97.31 / 104
p0 285.2 ± 568.9
60000
40000
20000
0
−20000
−40000
pull
Entries 105
Mean −26.94
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 105
Mean −0.01352
Std Dev 0.9626
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

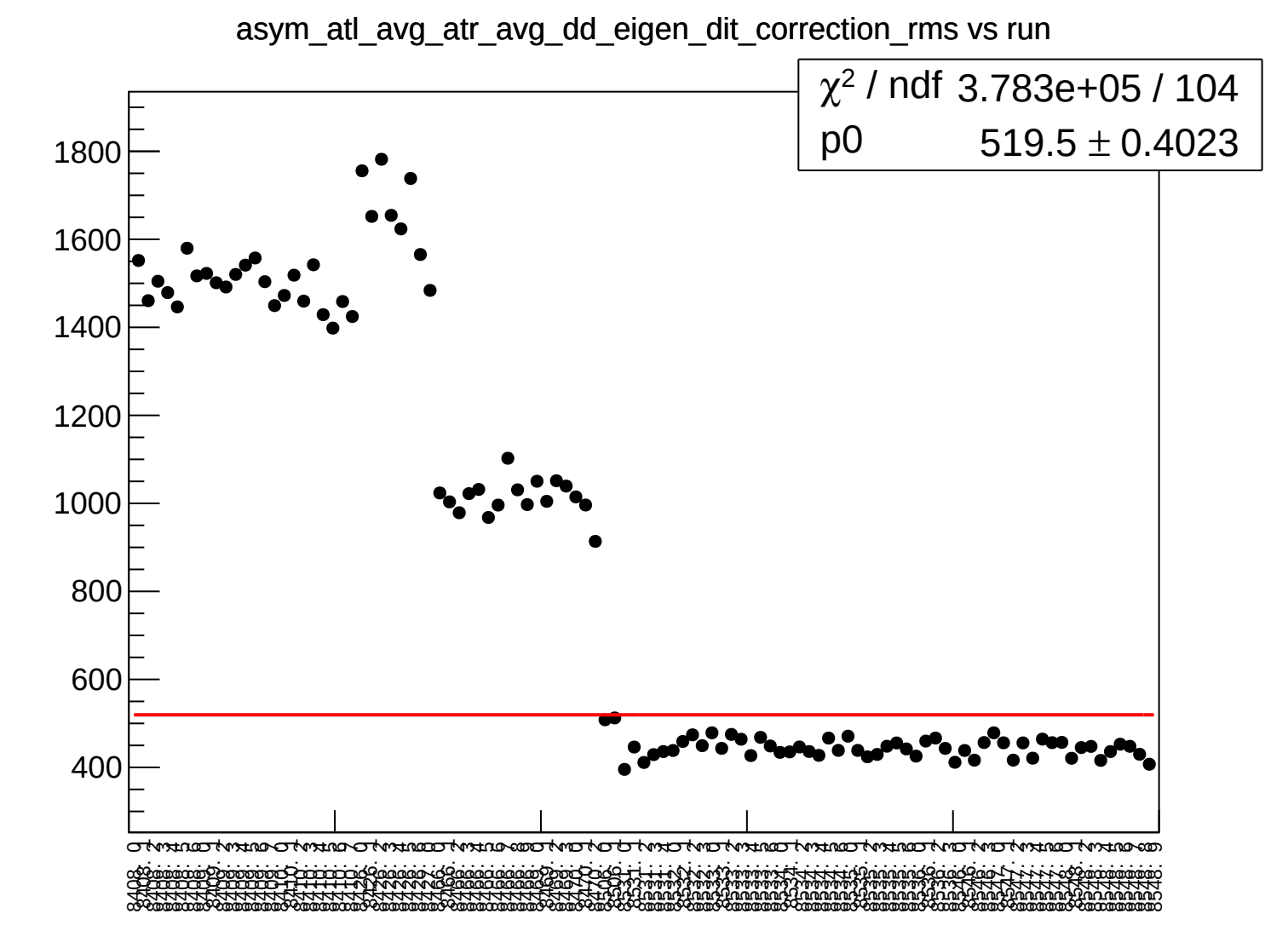

asym_atl_avg_atr_avg_dd_dit_correction_rms vs run
χ² / ndf 3.783e+05 / 104
p0 519.5 ± 0.4023
1800
1600
1400
1200
1000
800
600
400

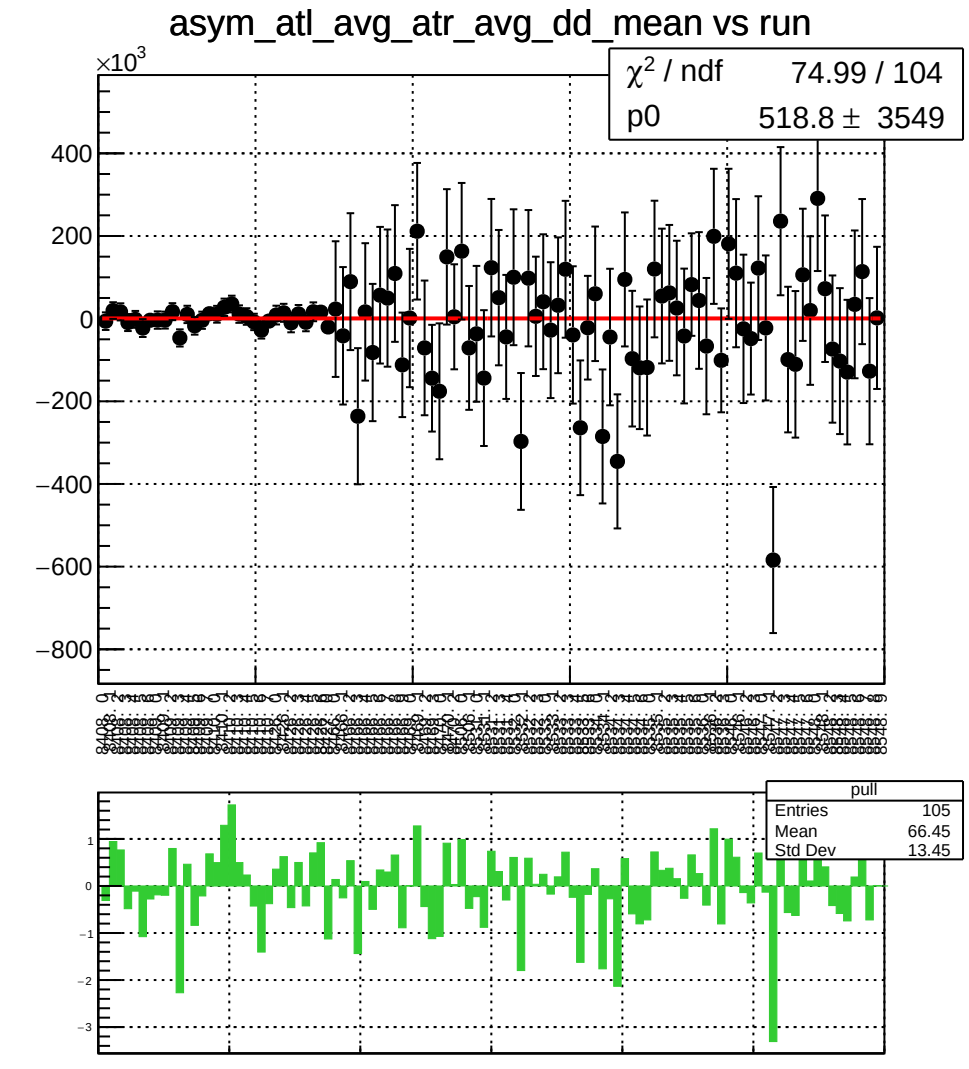

eigen_dit_asym_atl_avg_atr_avg_dd_mean vs run
×10^3
χ^2 / ndf 79.5 / 104
p0 498.3 ± 2283
400
200
0
−200
−400
−600
−800
pull
Entries 105
Mean 59.41
Std Dev 24.67
2
1
0
−1
−2
−3

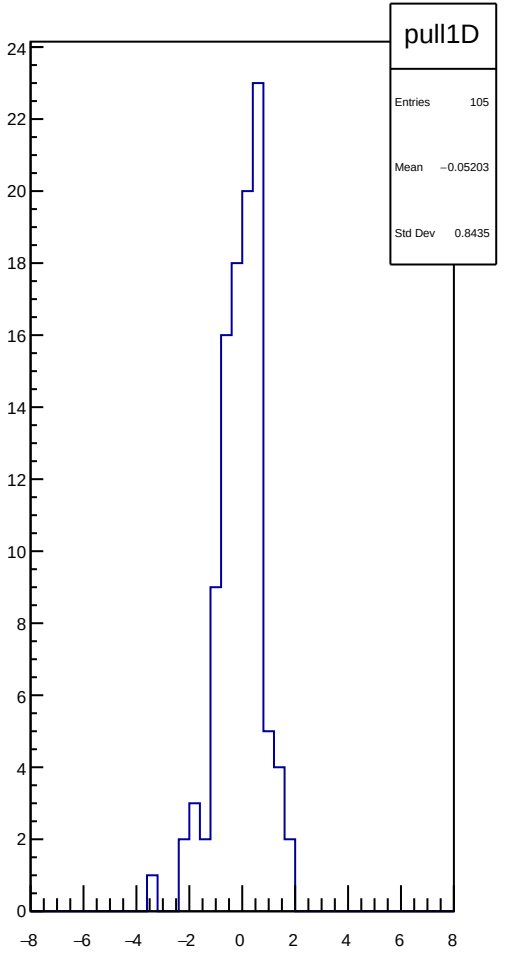

pull1D
Entries 105
Mean −0.05415
Std Dev 0.8684
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

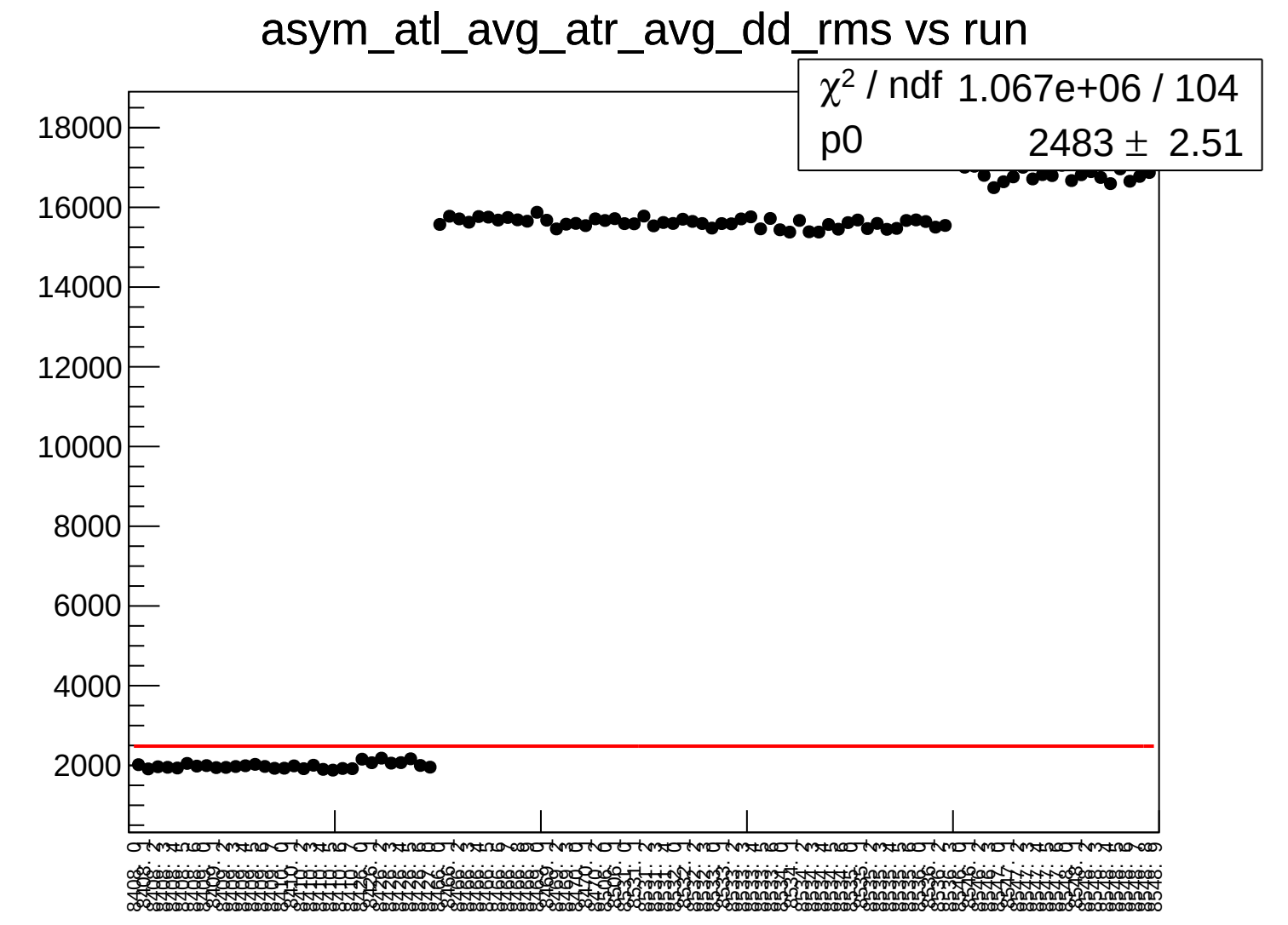

eigen_dit_asym_atl_avg_atr_avg_dd_rms vs run
χ^2 / ndf 1.205e+06 / 104
p0 1481 ± 1.614
18000
16000
14000
12000
10000
8000
6000
4000
2000

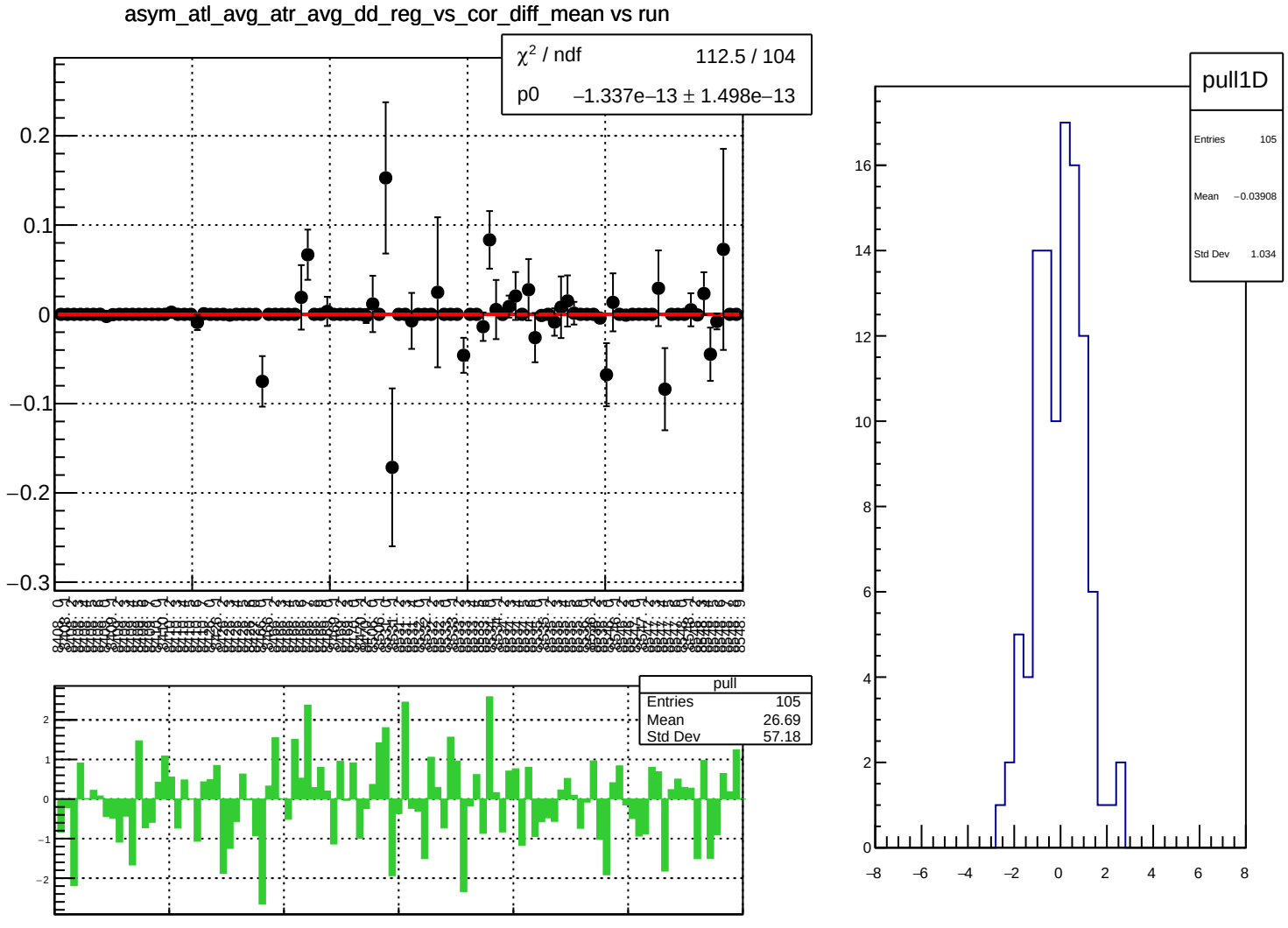

asym_atl_avg_atr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 97.31 / 104
p0 285.2 ± 568.9
60000
40000
20000
0
−20000
−40000
pull
Entries 105
Mean −26.94
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 105
Mean −0.01352
Std Dev 0.9626
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

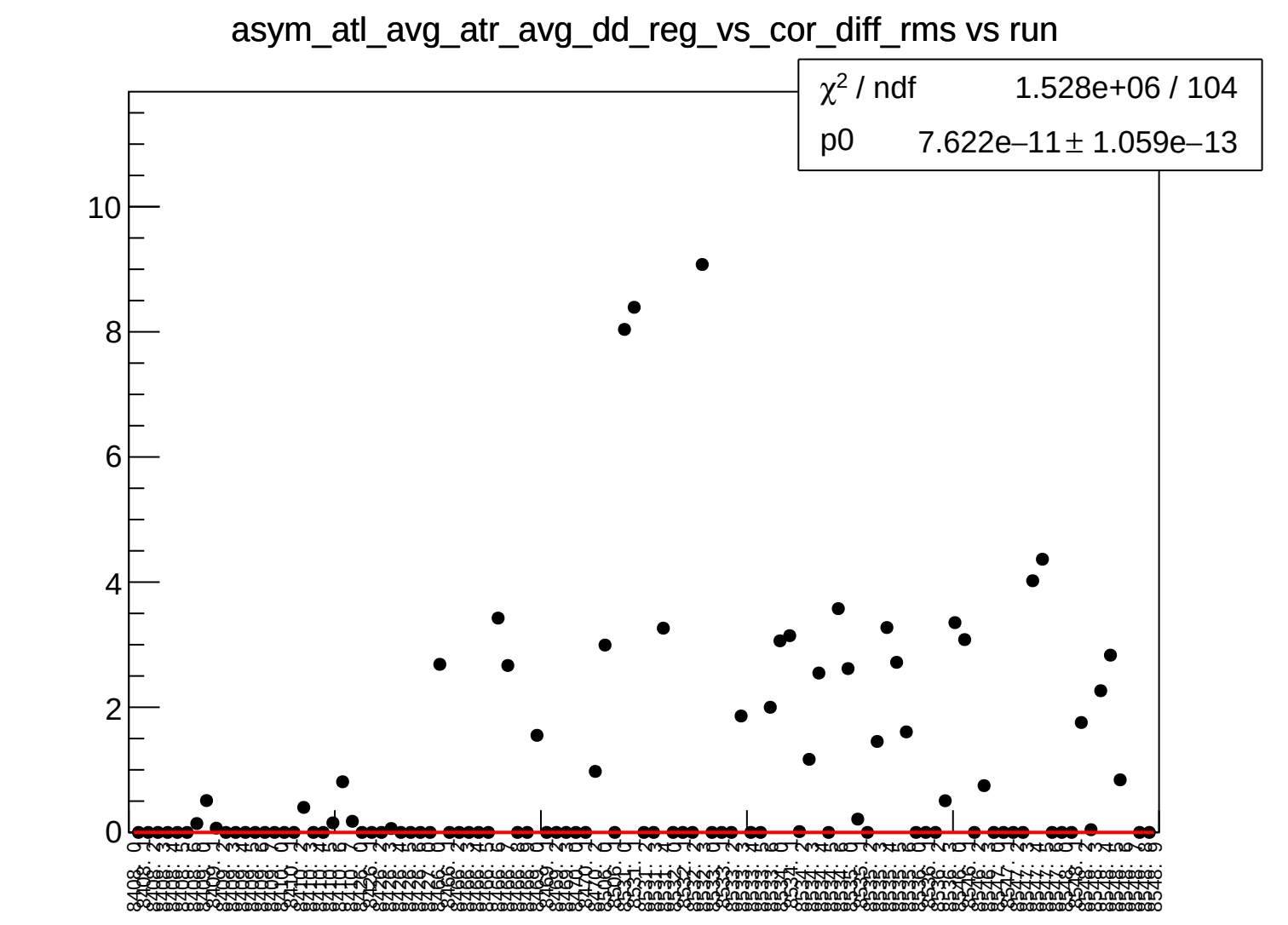

asym_atl_avg_atr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.783e+05 / 104
p0 519.5 ± 0.4023
1800
1600
1400
1200
1000
800
600
400

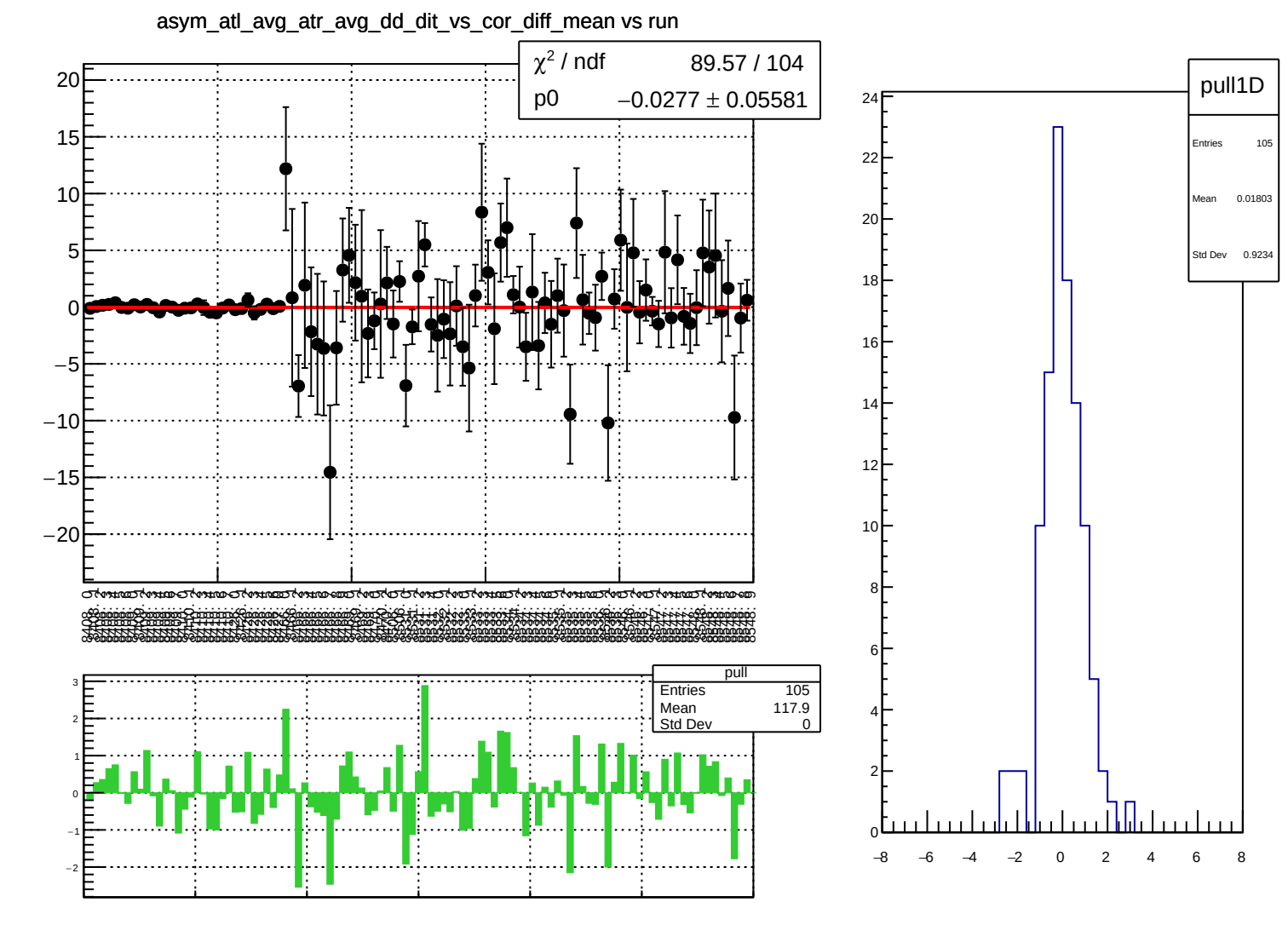

asym_atl_avg_atr_avg_dd_mean vs run
×10^3
χ² / ndf 74.99 / 104
p0 518.8 ± 3549
400
200
0
−200
−400
−600
−800
pull
Entries 105
Mean 66.45
Std Dev 13.45
1
0
−1
−2
−3

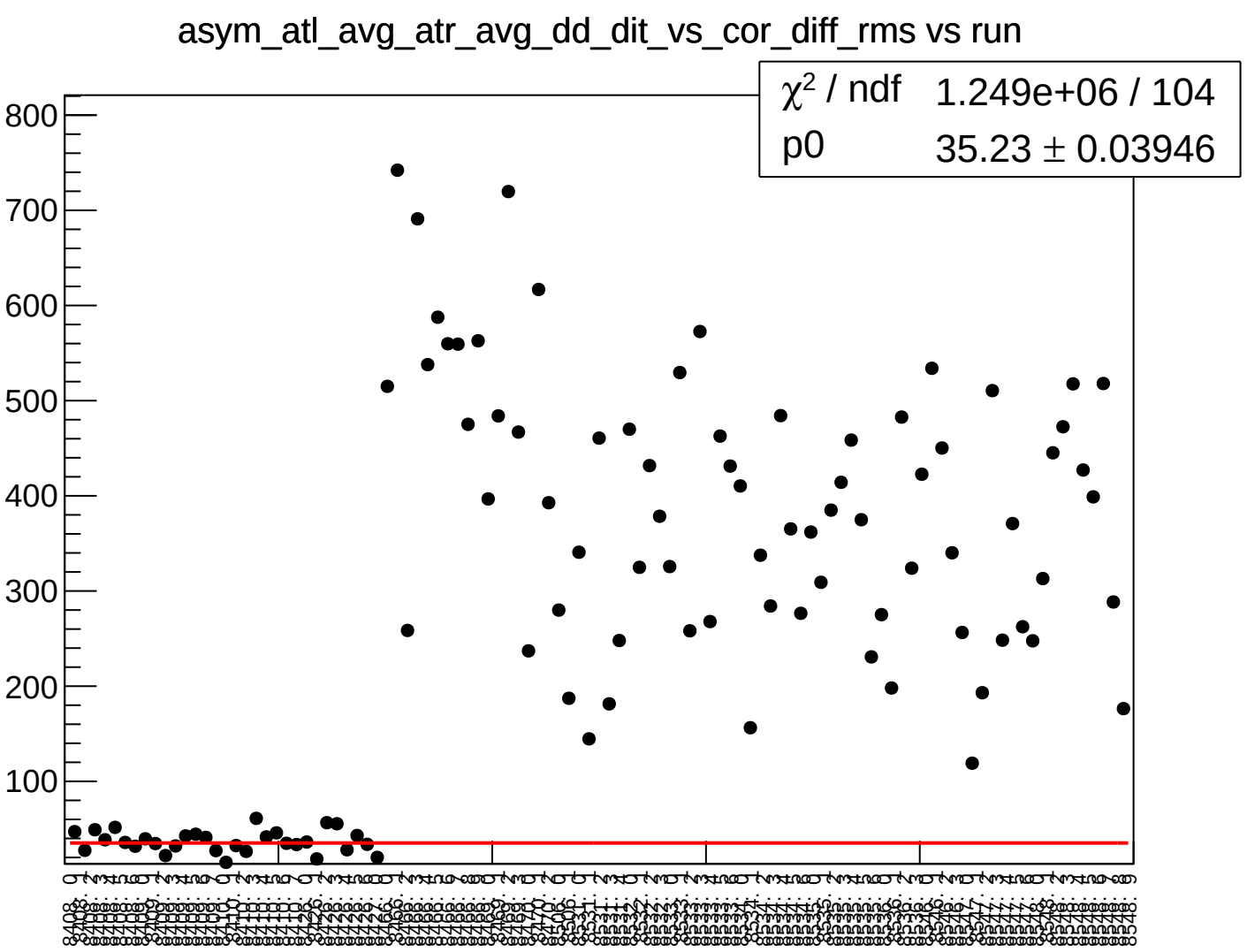

pull1D
Entries 105
Mean −0.05203
Std Dev 0.8435
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

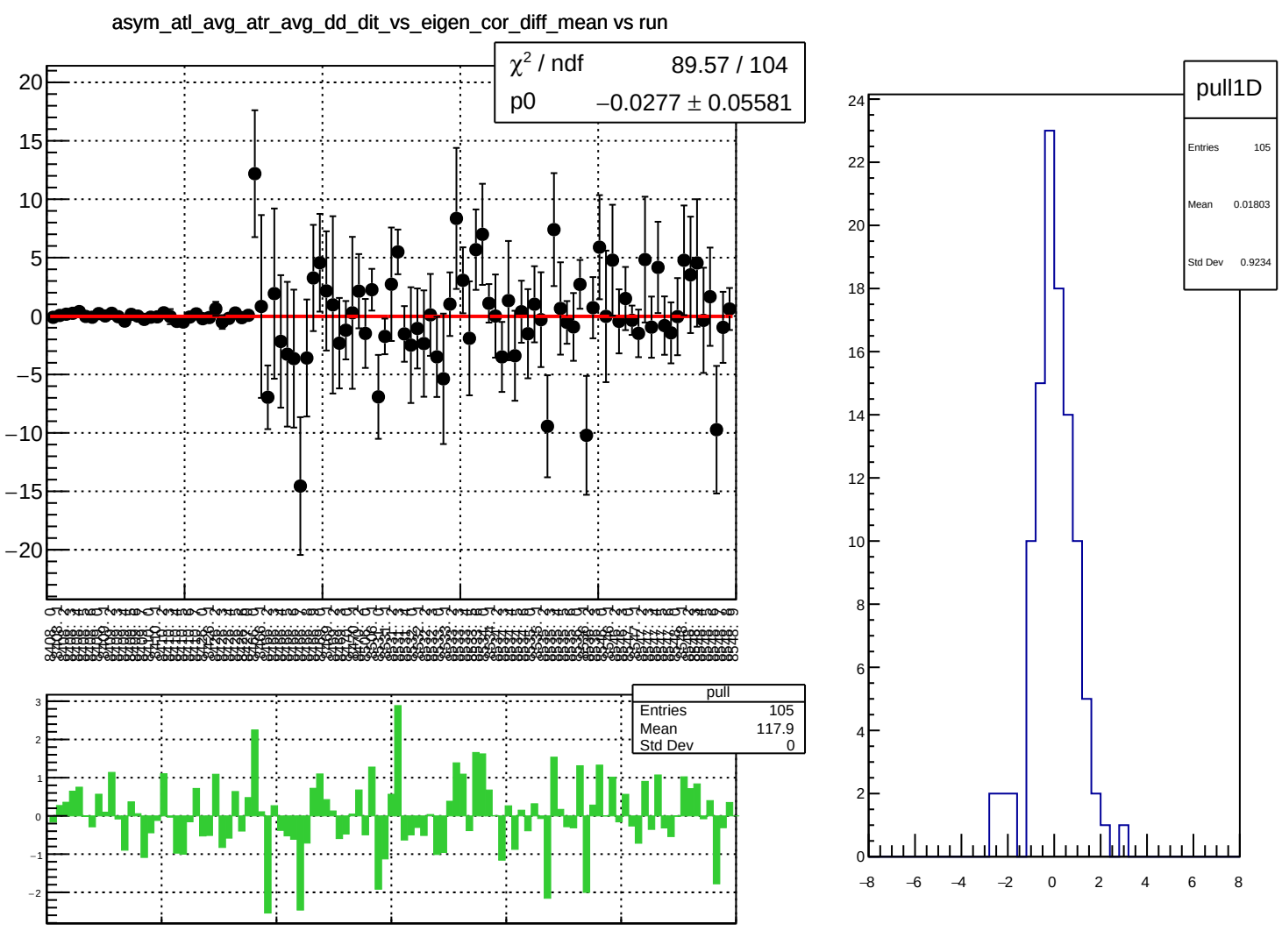

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 1.067e+06 / 104
p0 2483 ± 2.51
18000
16000
14000
12000
10000
8000
6000
4000
2000

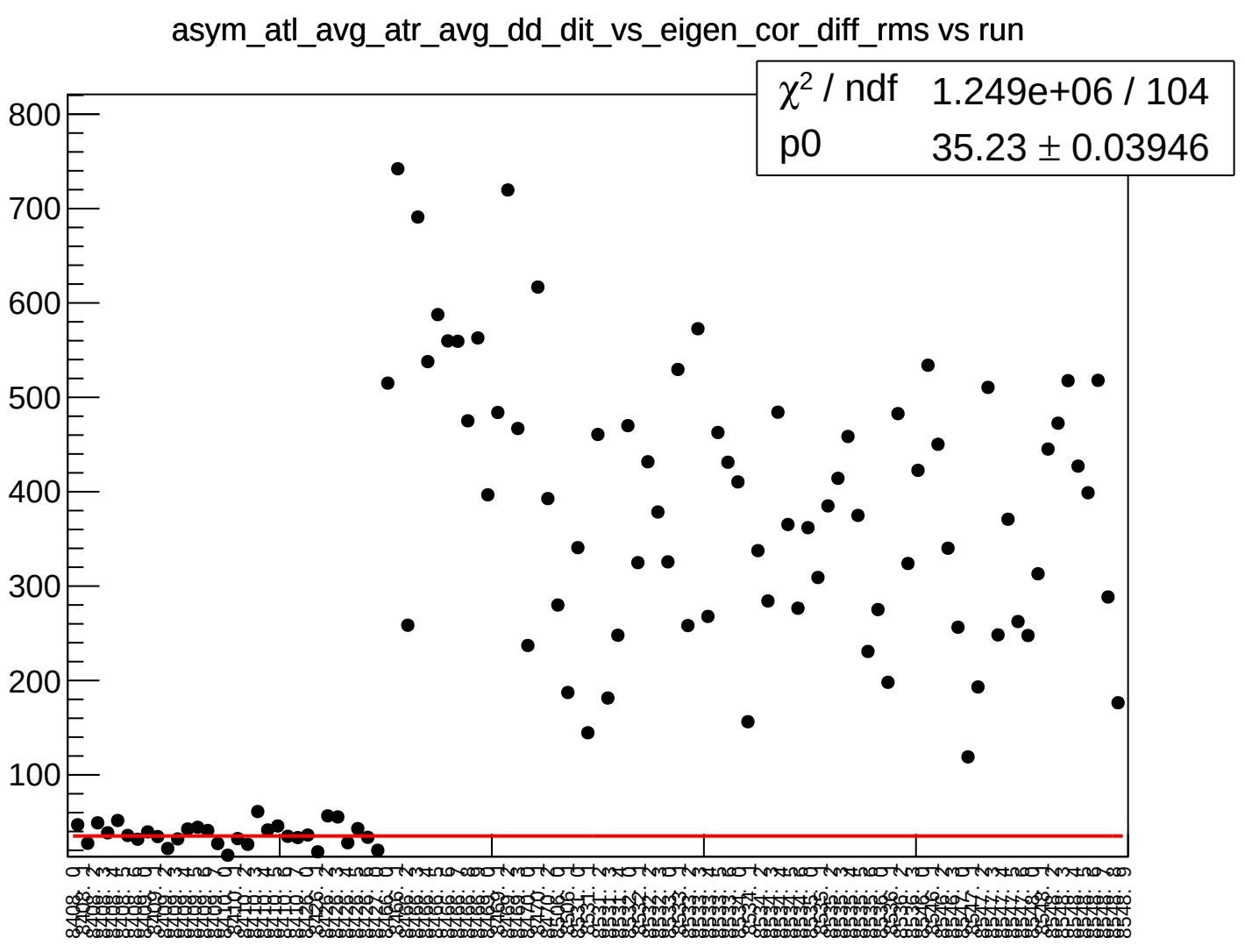

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 112.5 / 104
p0 −1.337e−13 ± 1.498e−13
pull
Entries 105
Mean 26.69
Std Dev 57.18
pull1D
Entries 105
Mean −0.03908
Std Dev 1.034

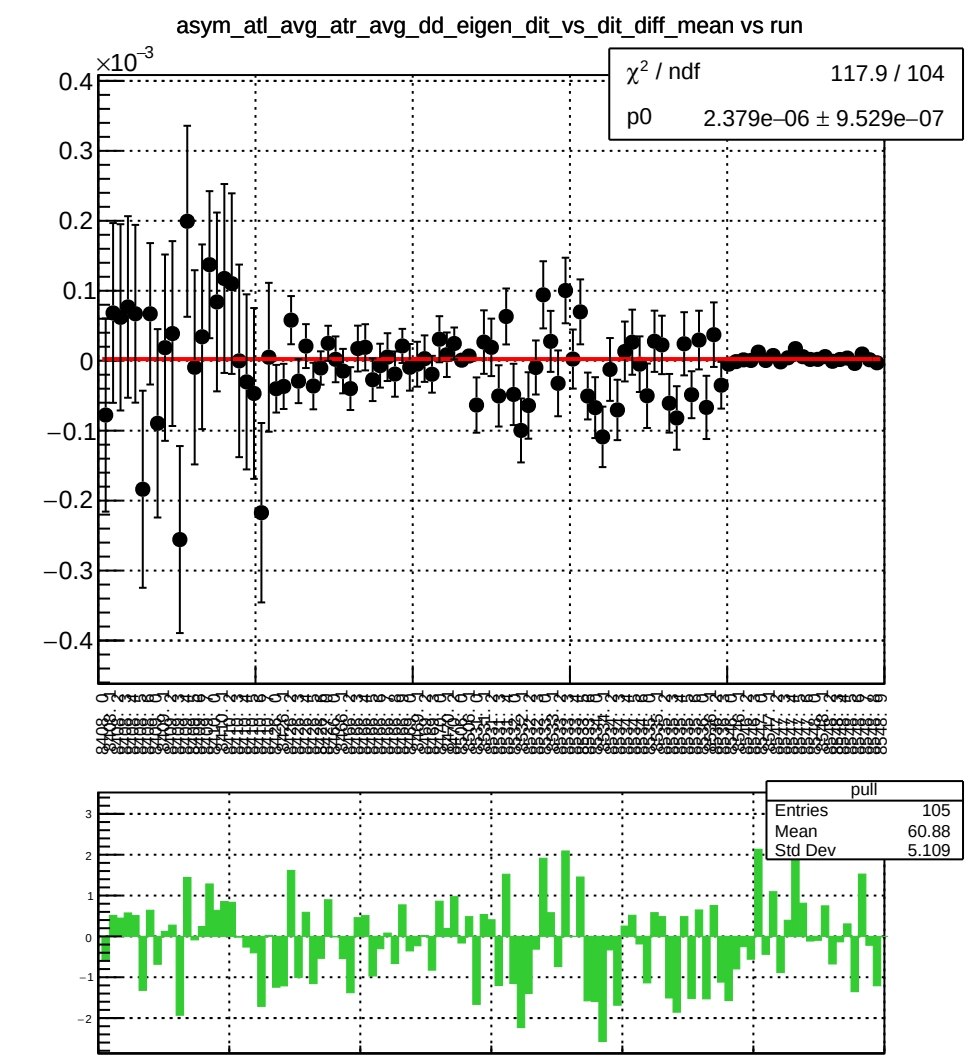

asym_atl_avg_atr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.528e+06 / 104
p0 7.622e−11 ± 1.059e−13
10
8
6
4
2
0

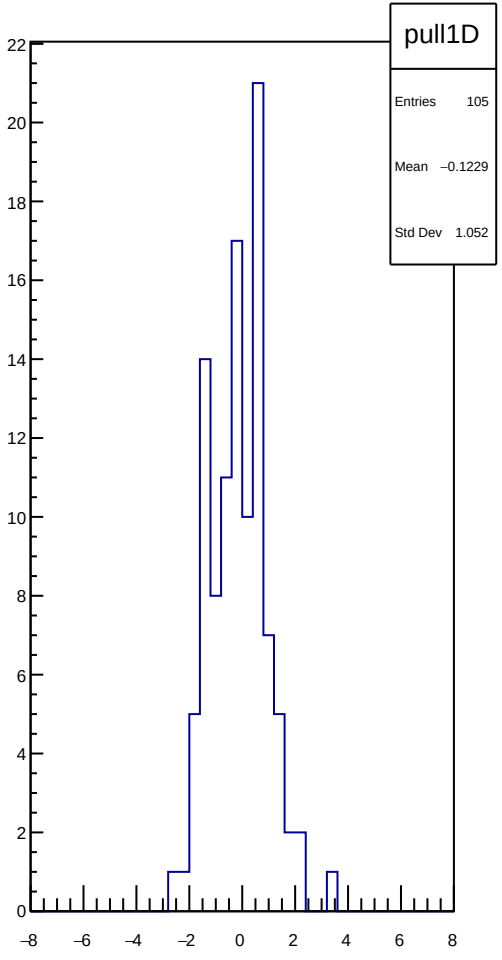

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 89.57 / 104
p0 −0.0277 ± 0.05581
pull
Entries 105
Mean 117.9
Std Dev 0
pull1D
Entries 105
Mean 0.01803
Std Dev 0.9234

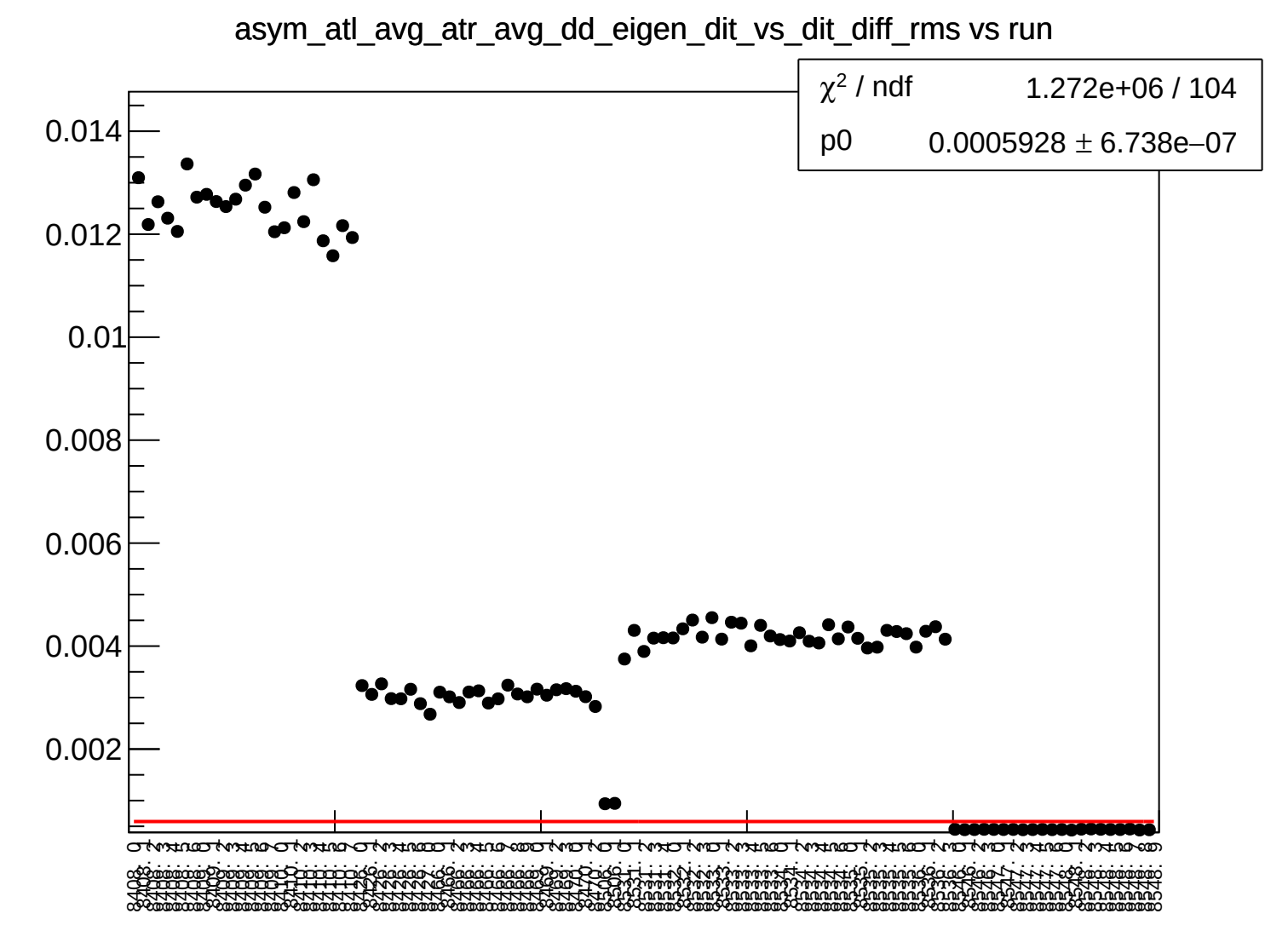

asym_atl_avg_atr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.249e+06 / 104
p0 35.23 ± 0.03946
800
700
600
500
400
300
200
100

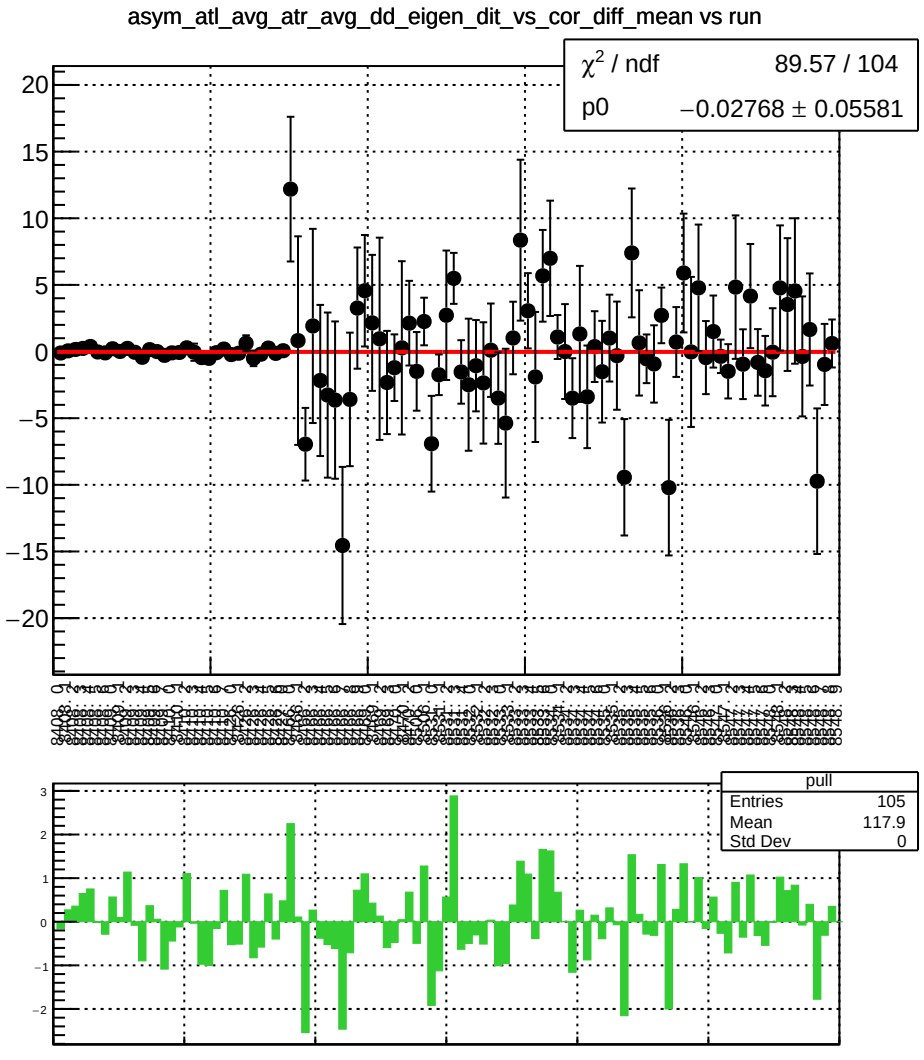

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.57 / 104
p0 −0.0277 ± 0.05581
pull
Entries 105
Mean 117.9
Std Dev 0
pull1D
Entries 105
Mean 0.01803
Std Dev 0.9234

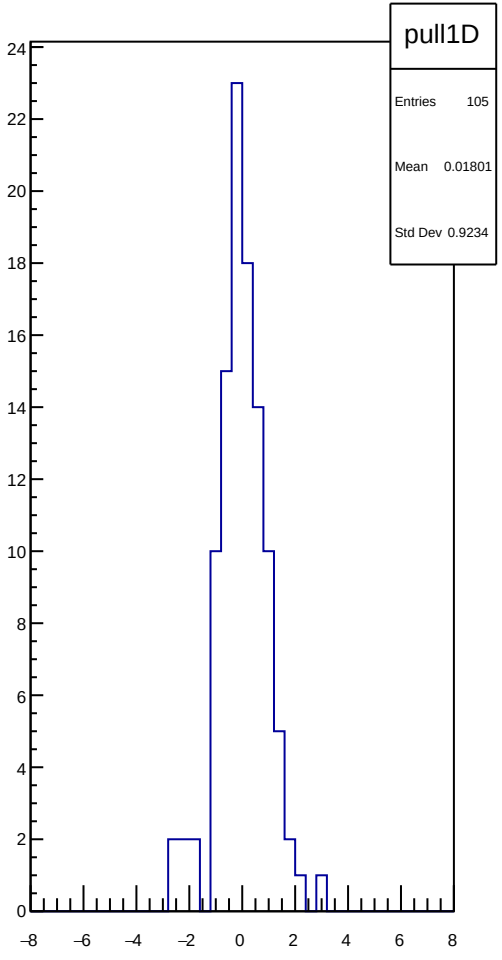

asym_atl_avg_atr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.249e+06 / 104
p0 35.23 ± 0.03946
800
700
600
500
400
300
200
100

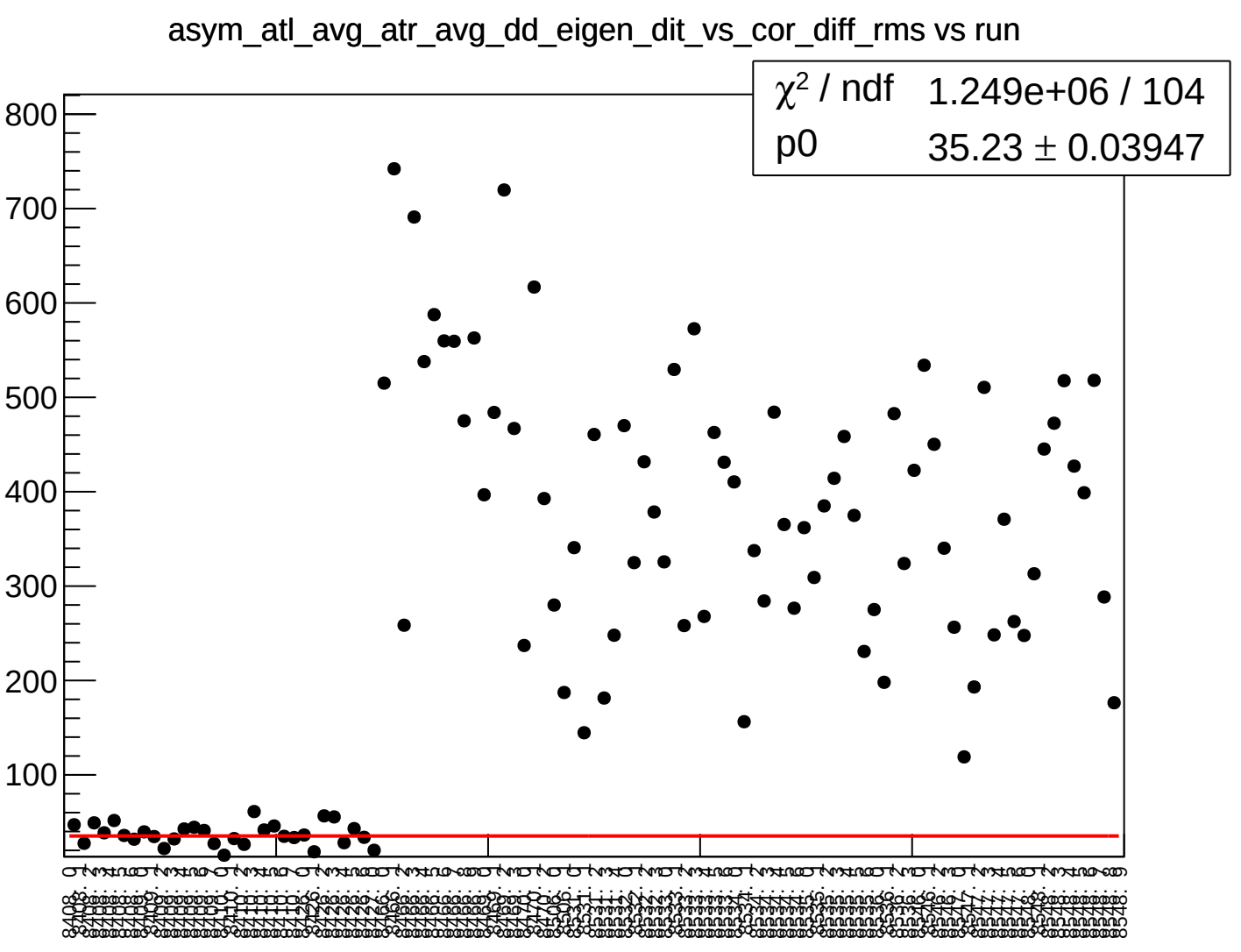

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 117.9 / 104
p0 2.379e−06 ± 9.529e−07
pull
Entries 105
Mean 60.88
Std Dev 5.109

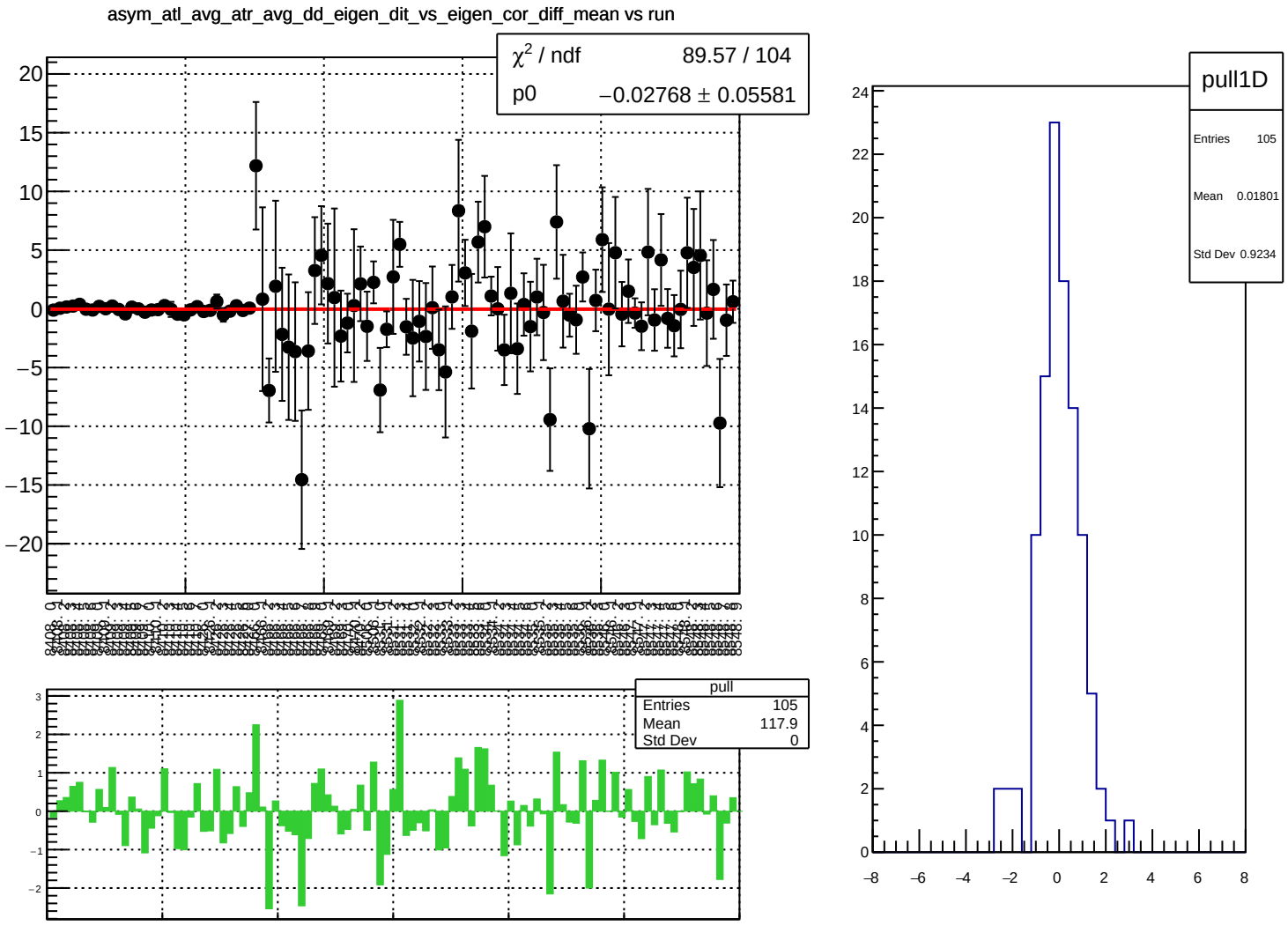

pull1D
Entries 105
Mean −0.1229
Std Dev 1.052

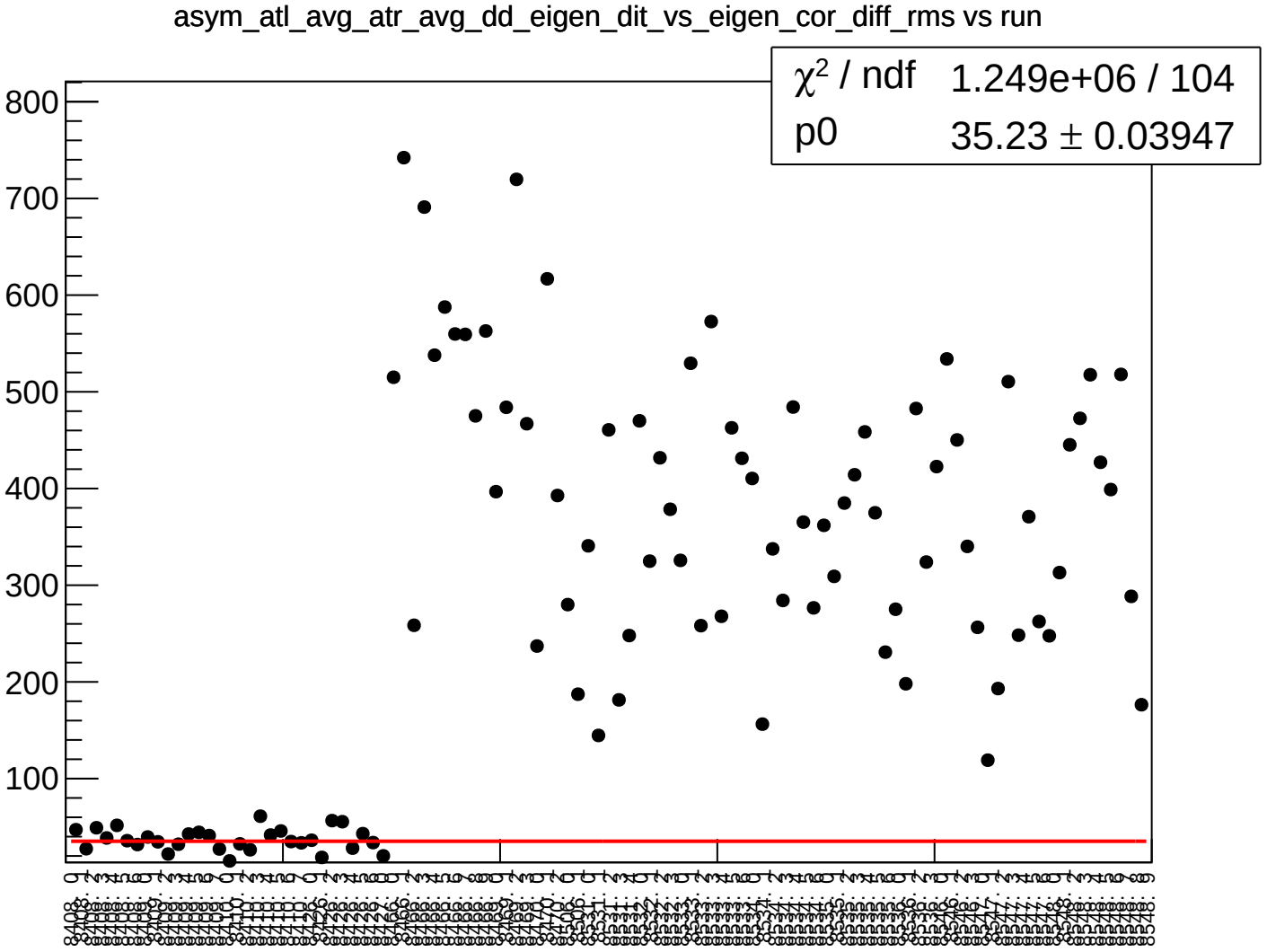

asym_atl_avg_atr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.272e+06 / 104
p0 0.0005928 ± 6.738e−07
0.014
0.012
0.01
0.008
0.006
0.004
0.002

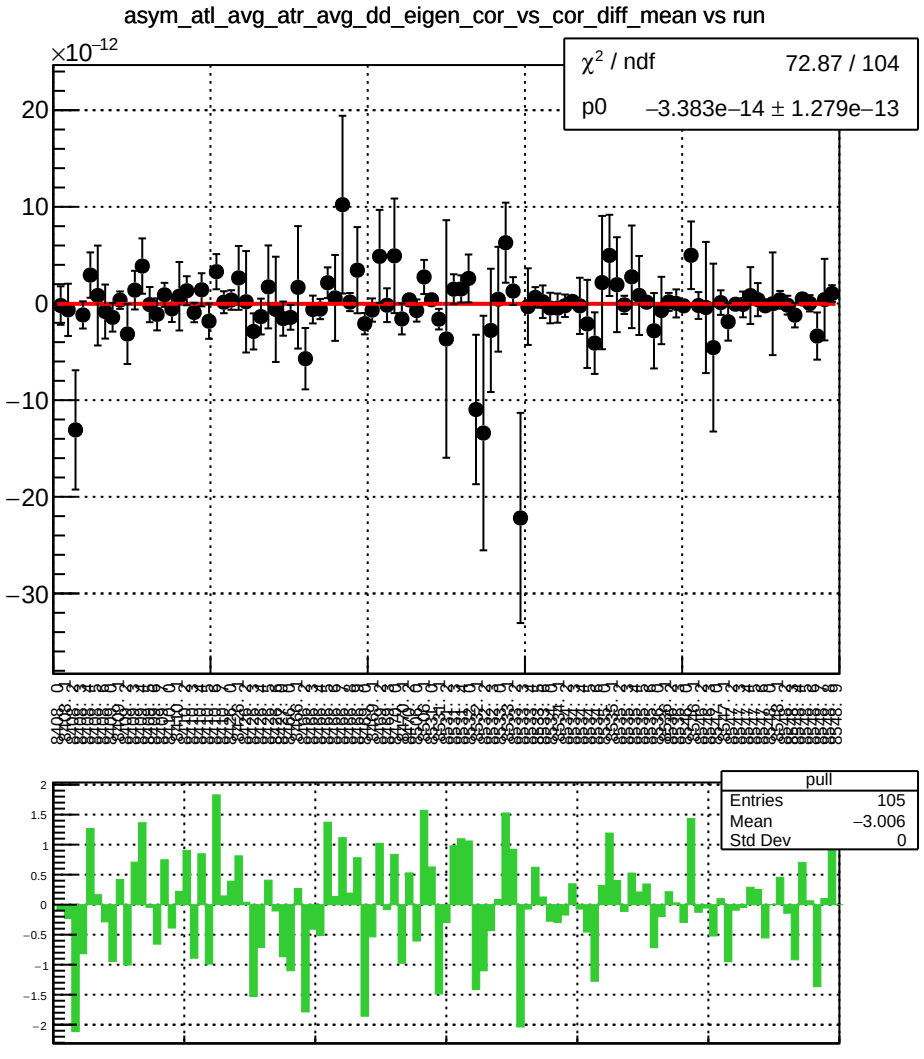

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.57 / 104
p0 −0.02768 ± 0.05581
pull
Entries 105
Mean 117.9
Std Dev 0

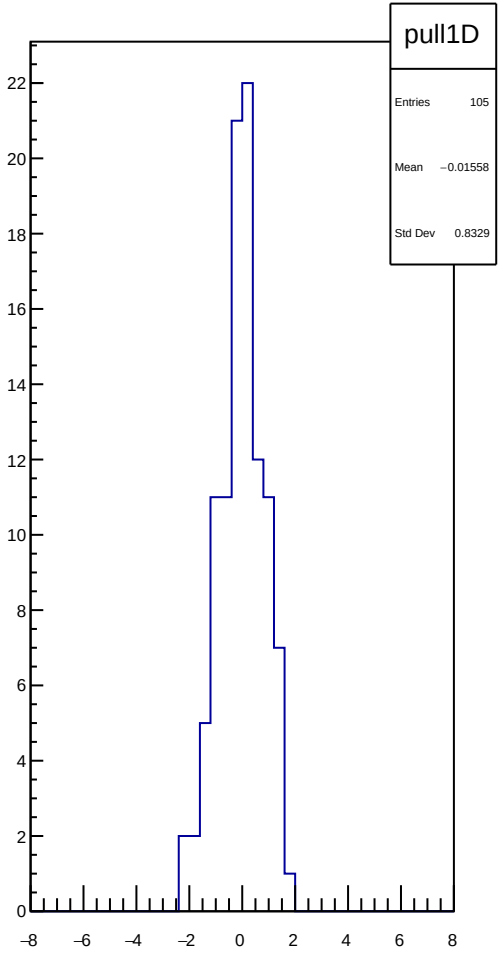

pull1D
Entries 105
Mean 0.01801
Std Dev 0.9234

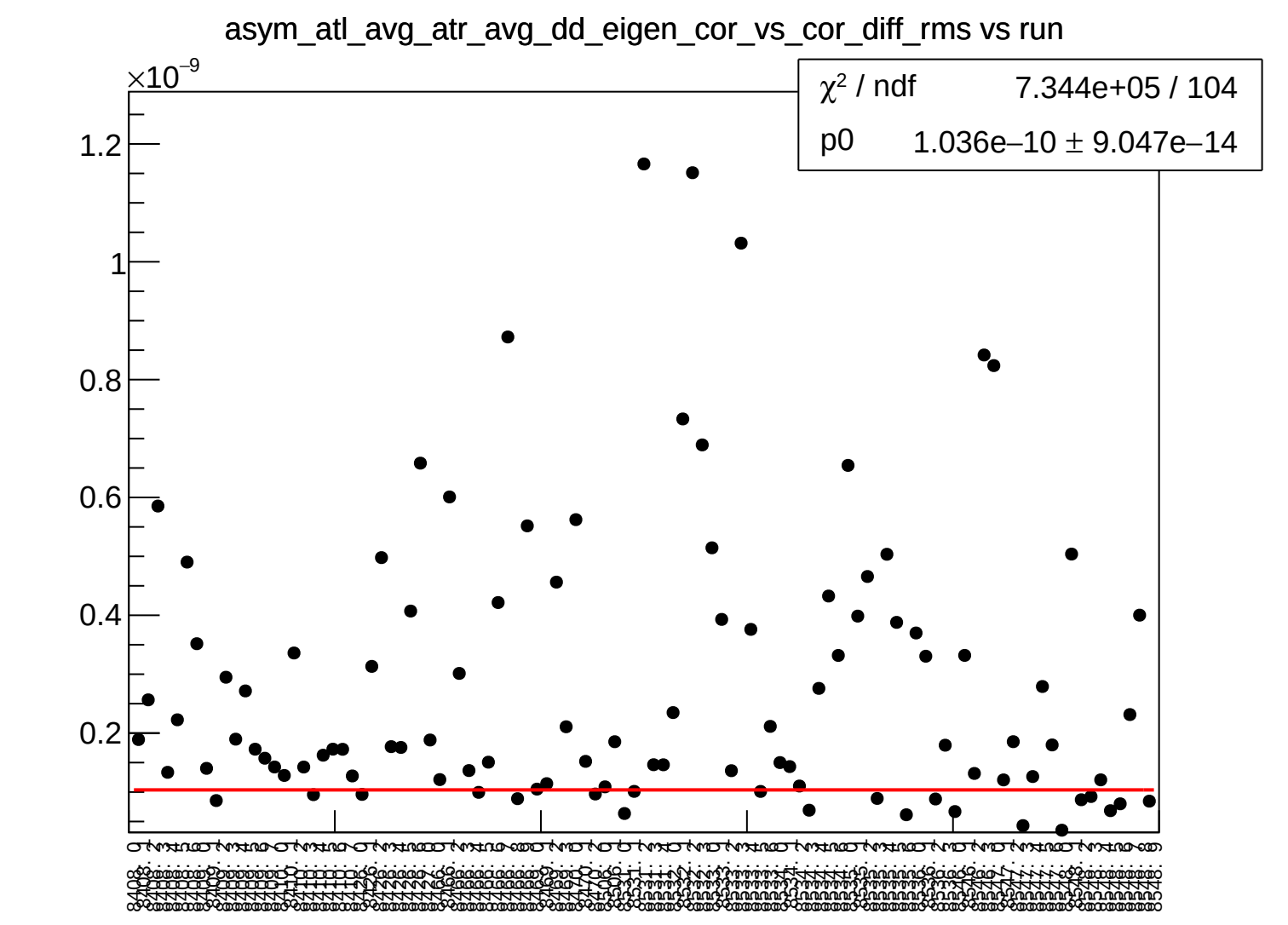

asym_atl_avg_atr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.249e+06 / 104
p0 35.23 ± 0.03947
800
700
600
500
400
300
200
100

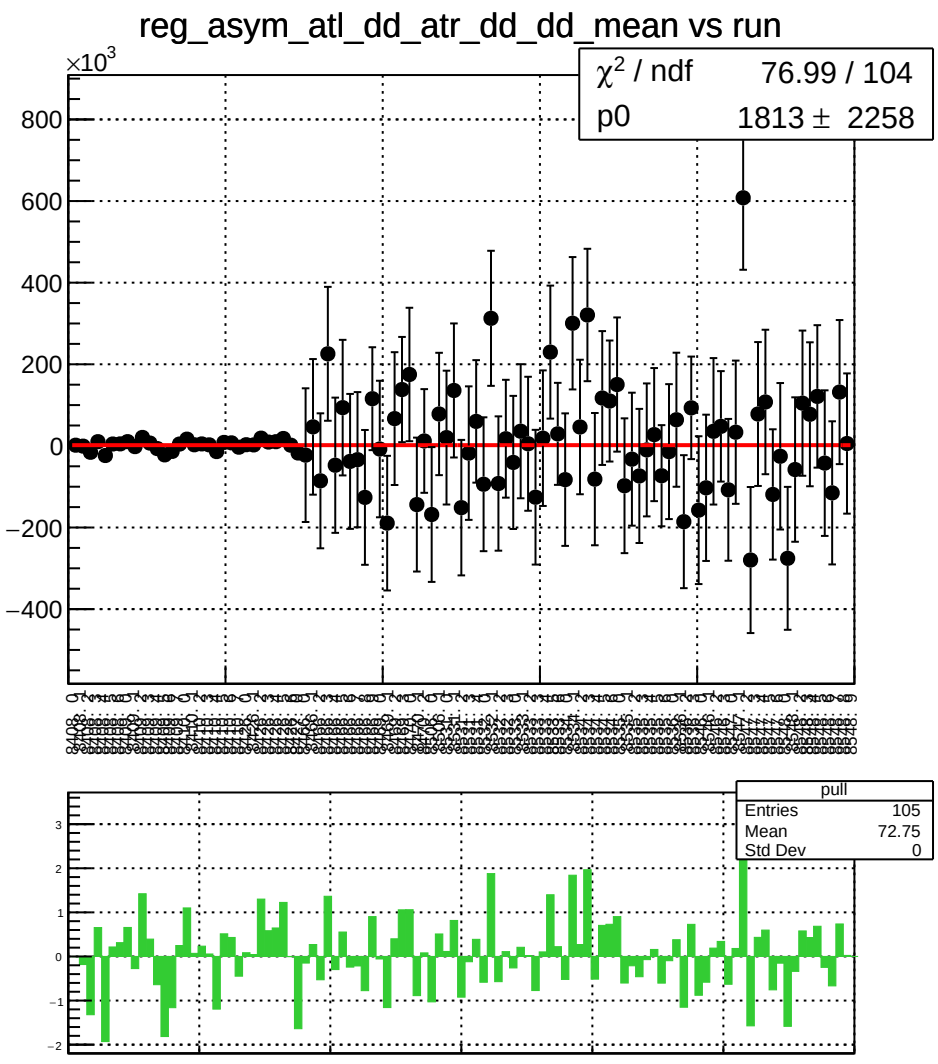

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.57 / 104
p0 −0.02768 ± 0.05581
pull
Entries 105
Mean 117.9
Std Dev 0
pull1D
Entries 105
Mean 0.01801
Std Dev 0.9234

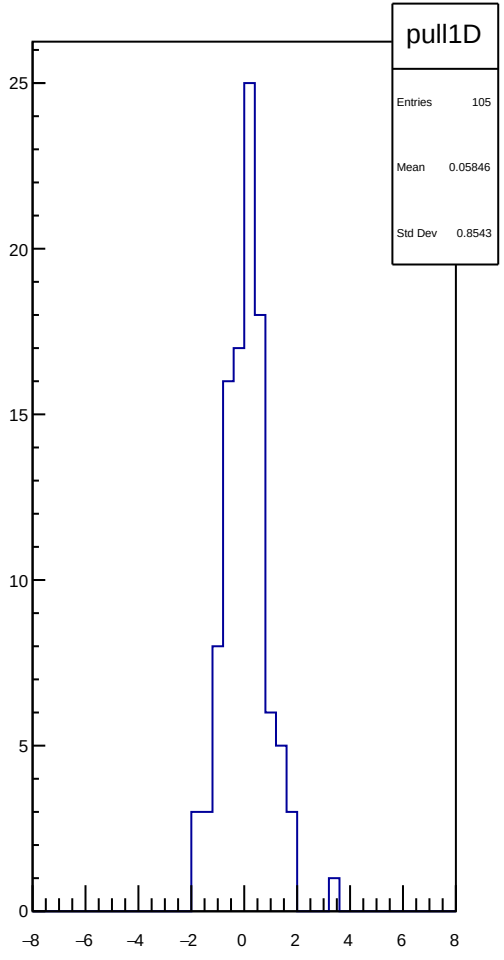

asym_atl_avg_atr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.249e+06 / 104
p0 35.23 ± 0.03947
800
700
600
500
400
300
200
100

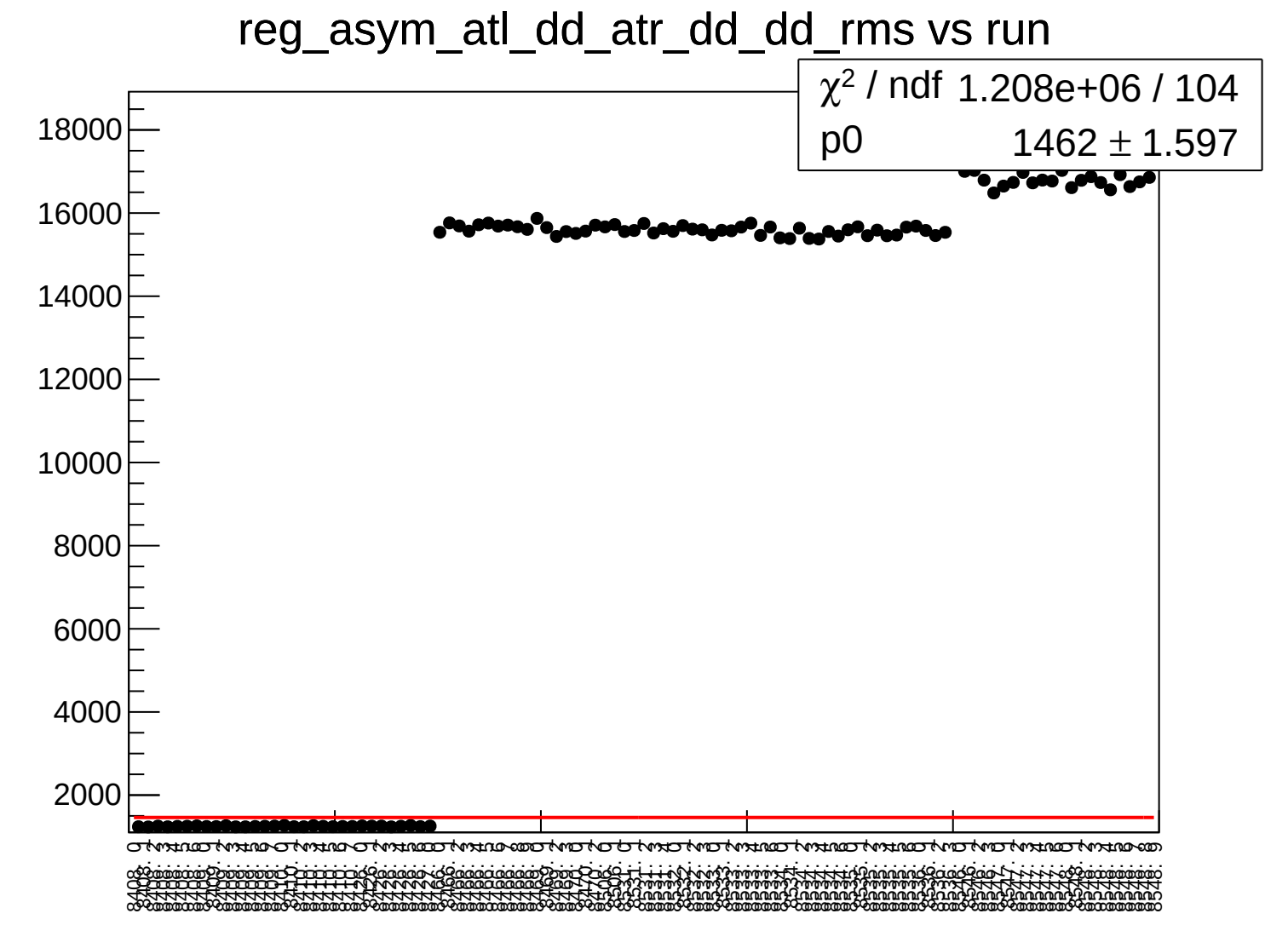

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 72.87 / 104
p0 −3.383e−14 ± 1.279e−13
pull
Entries 105
Mean −3.006
Std Dev 0

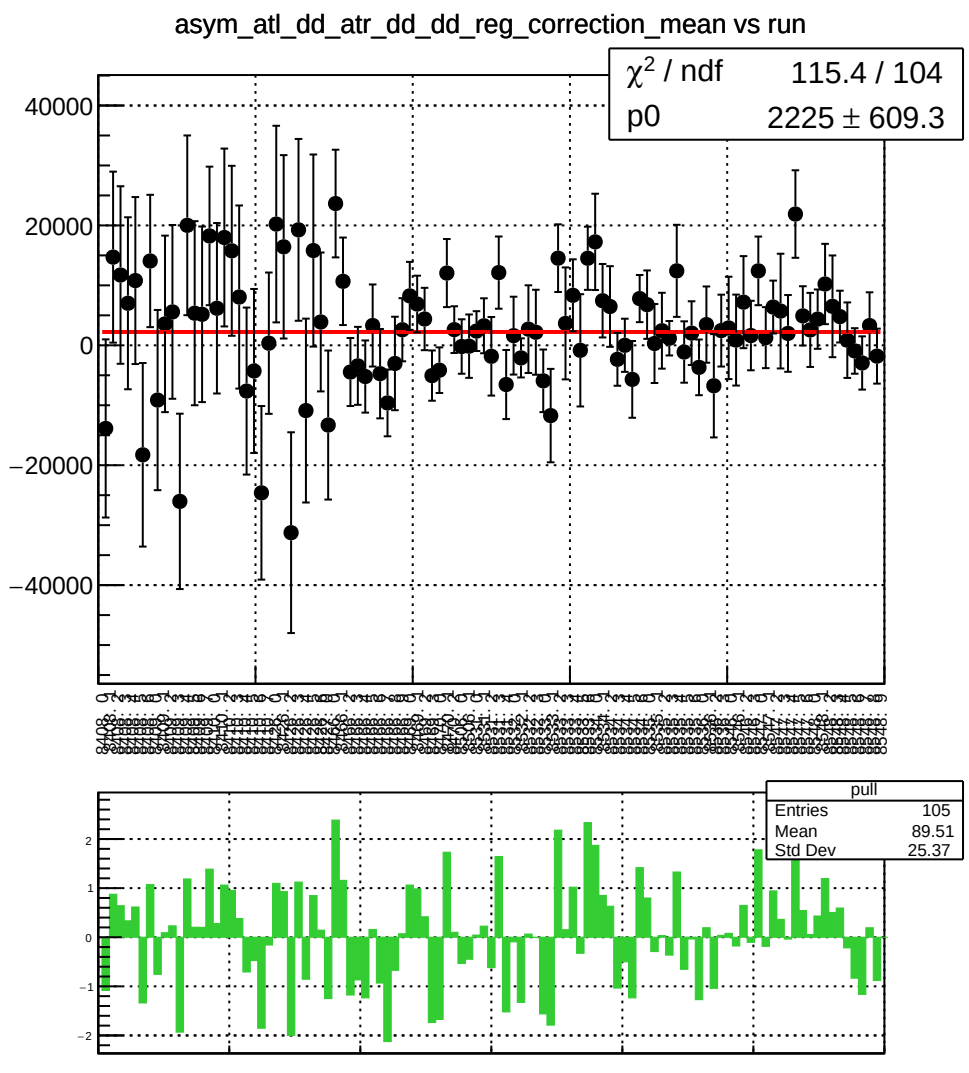

pull1D
Entries 105
Mean −0.01558
Std Dev 0.8329

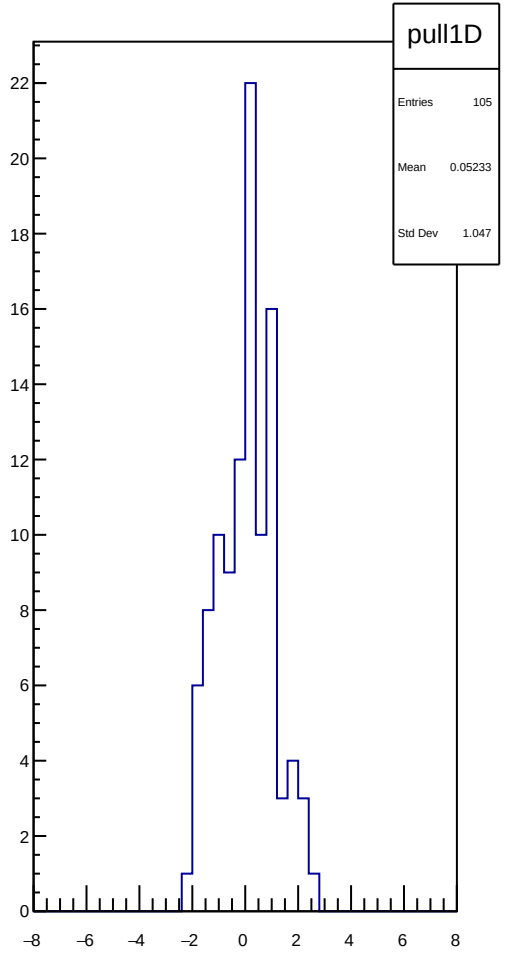

asym_atl_avg_atr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.344e+05 / 104
p0 1.036e−10 ± 9.047e−14
1.2
1
0.8
0.6
0.4
0.2

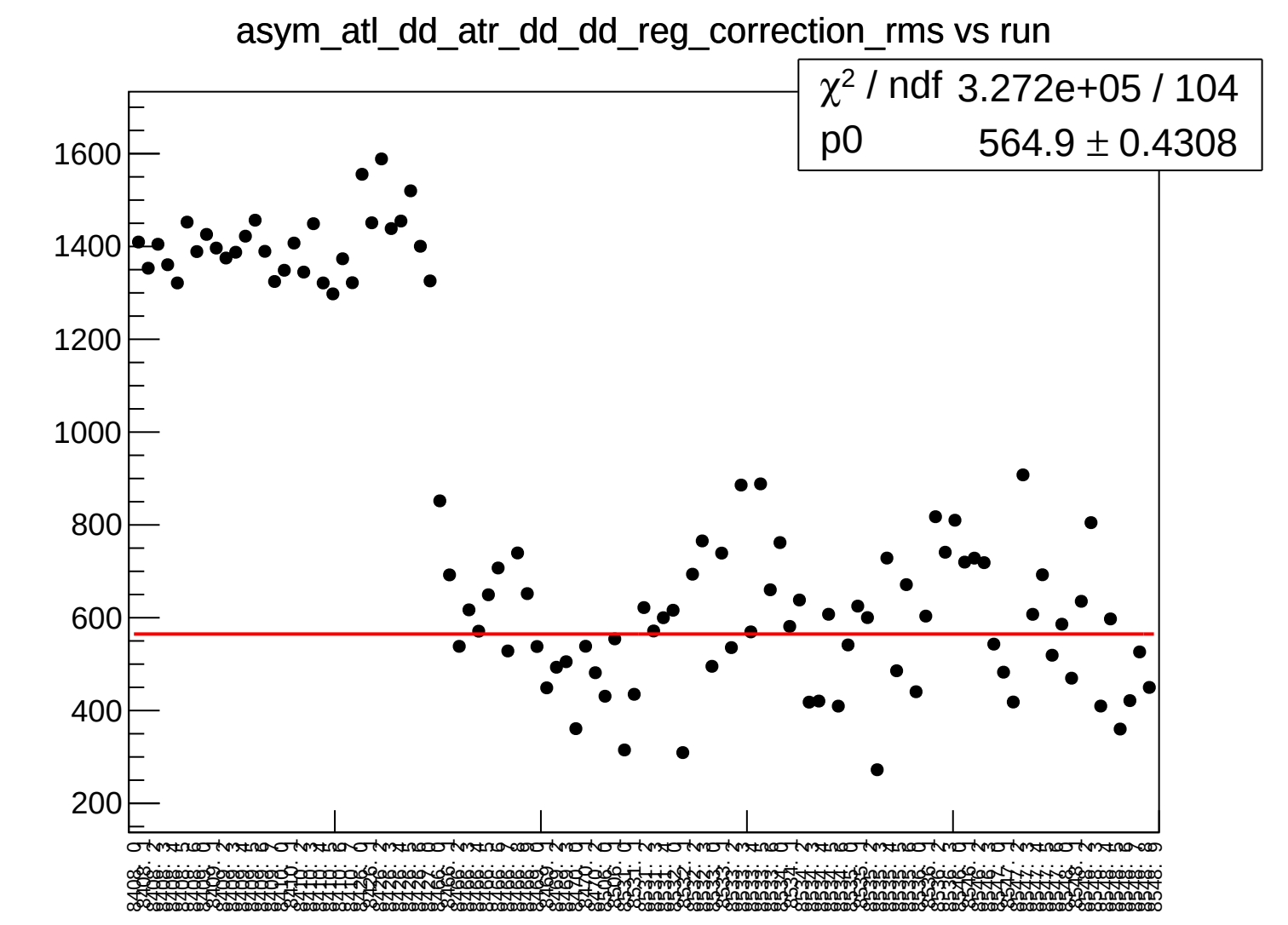

reg_asym_atl_dd_atr_dd_dd_mean vs run
×10^3
χ^2 / ndf 76.99 / 104
p0 1813 ± 2258
800
600
400
200
0
−200
−400
pull
Entries 105
Mean 72.75
Std Dev 0
3
2
1
0
−1
−2

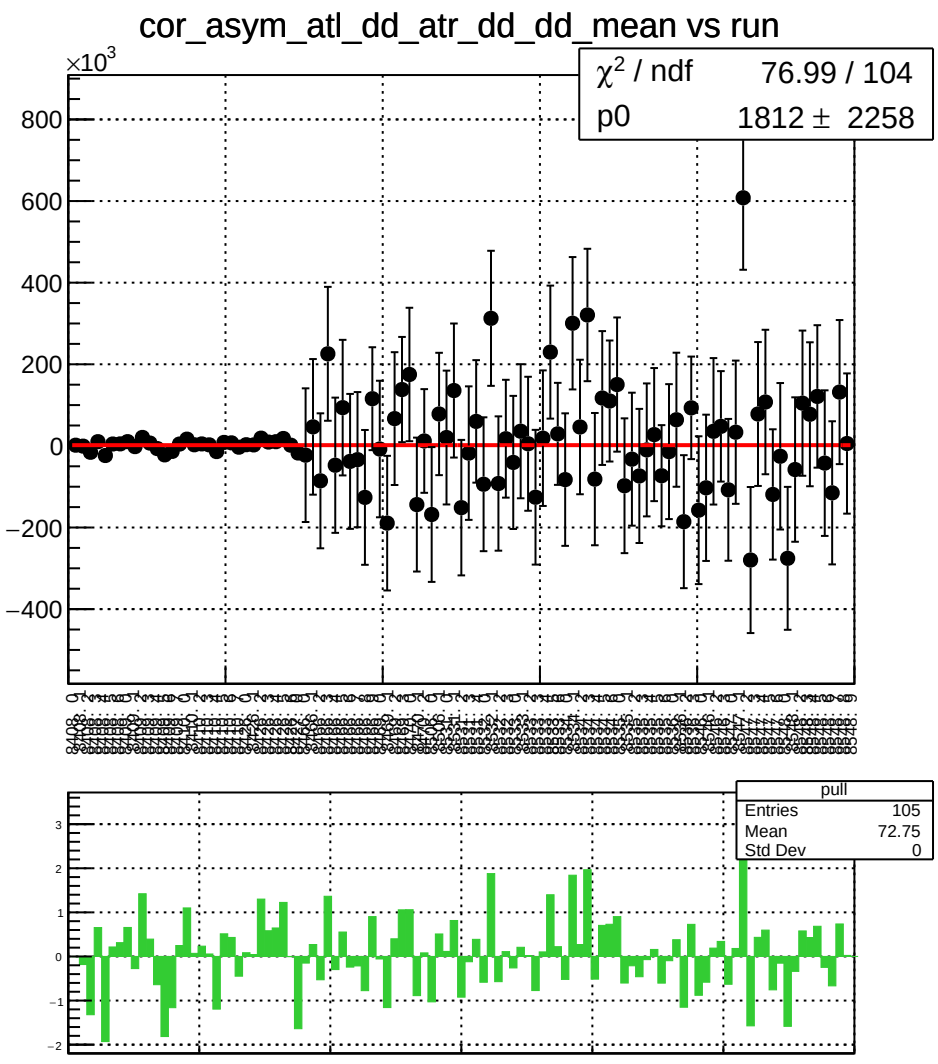

pull1D
Entries 105
Mean 0.05846
Std Dev 0.8543
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

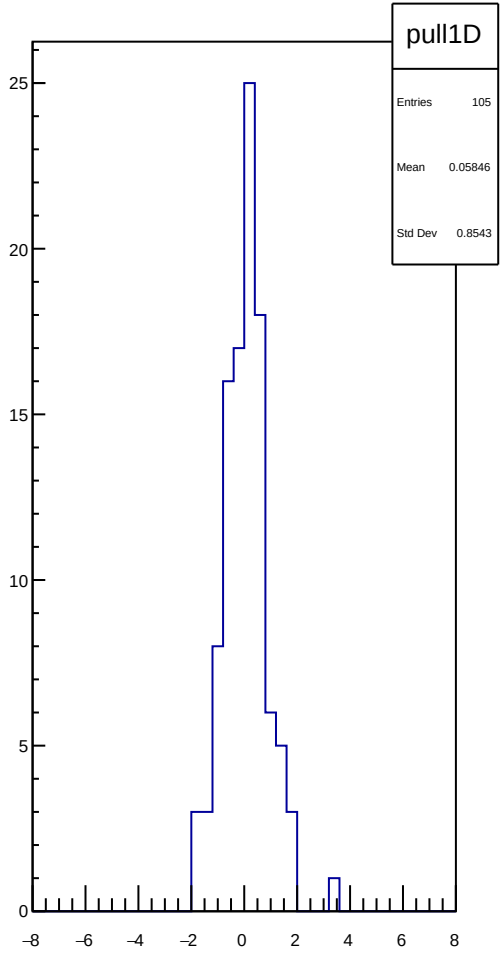

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 1.208e+06 / 104
p0 1462 ± 1.597
18000
16000
14000
12000
10000
8000
6000
4000
2000

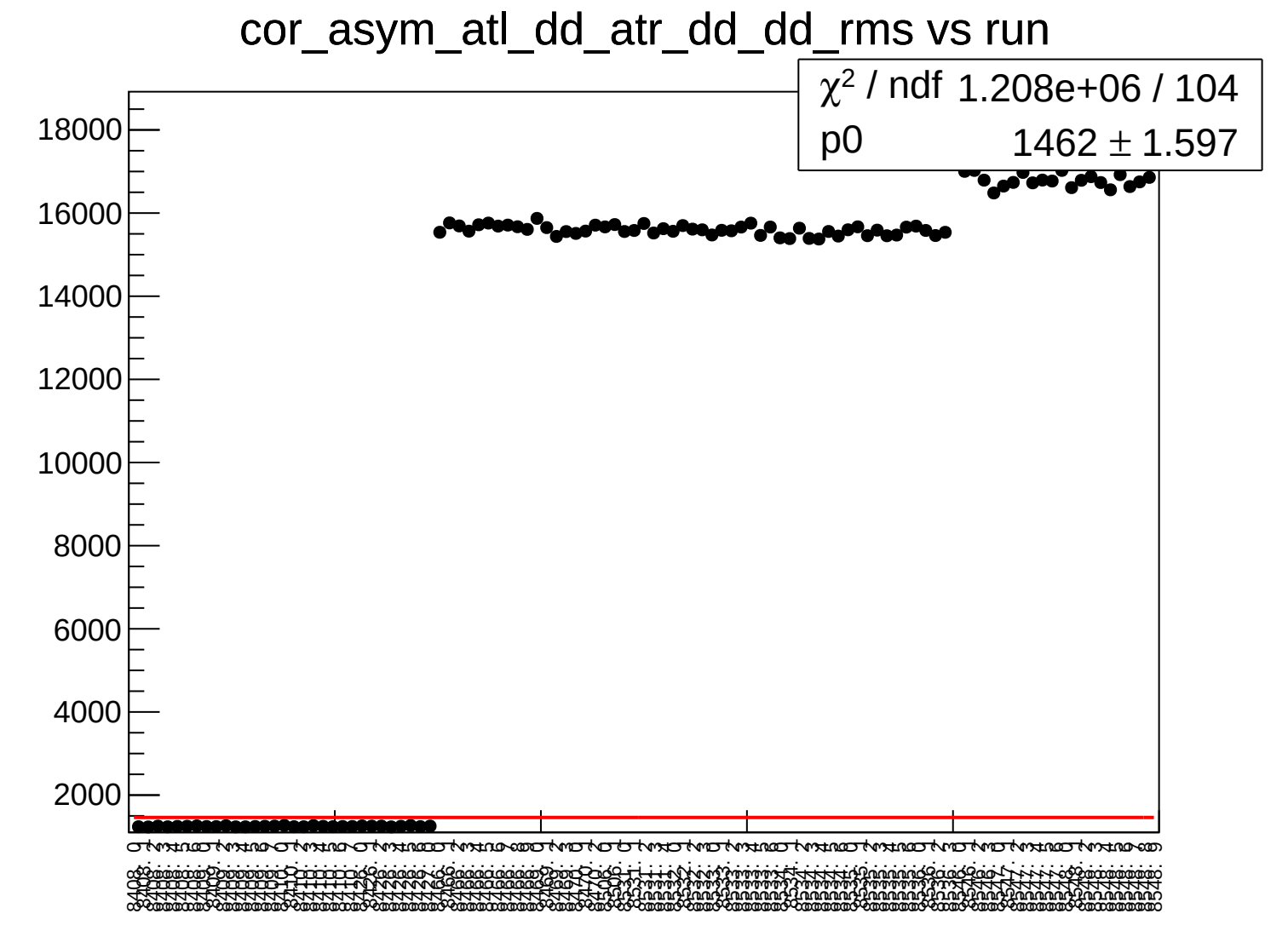

asym_atl_dd_atr_dd_dd_reg_correction_mean vs run
χ² / ndf 115.4 / 104
p0 2225 ± 609.3
40000
20000
0
−20000
−40000
pull
Entries 105
Mean 89.51
Std Dev 25.37
2
1
0
−1
−2

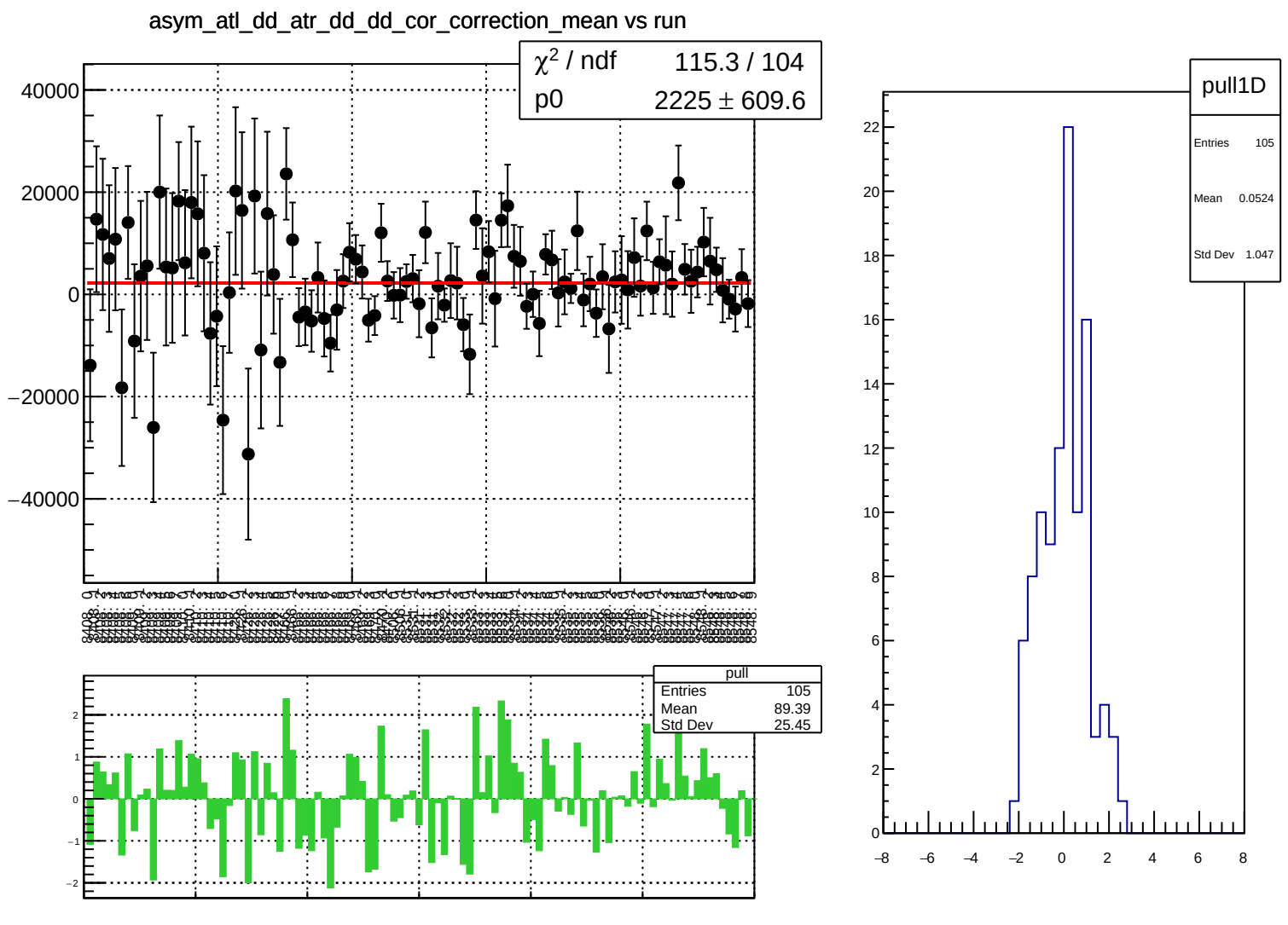

pull1D
Entries 105
Mean 0.05233
Std Dev 1.047
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

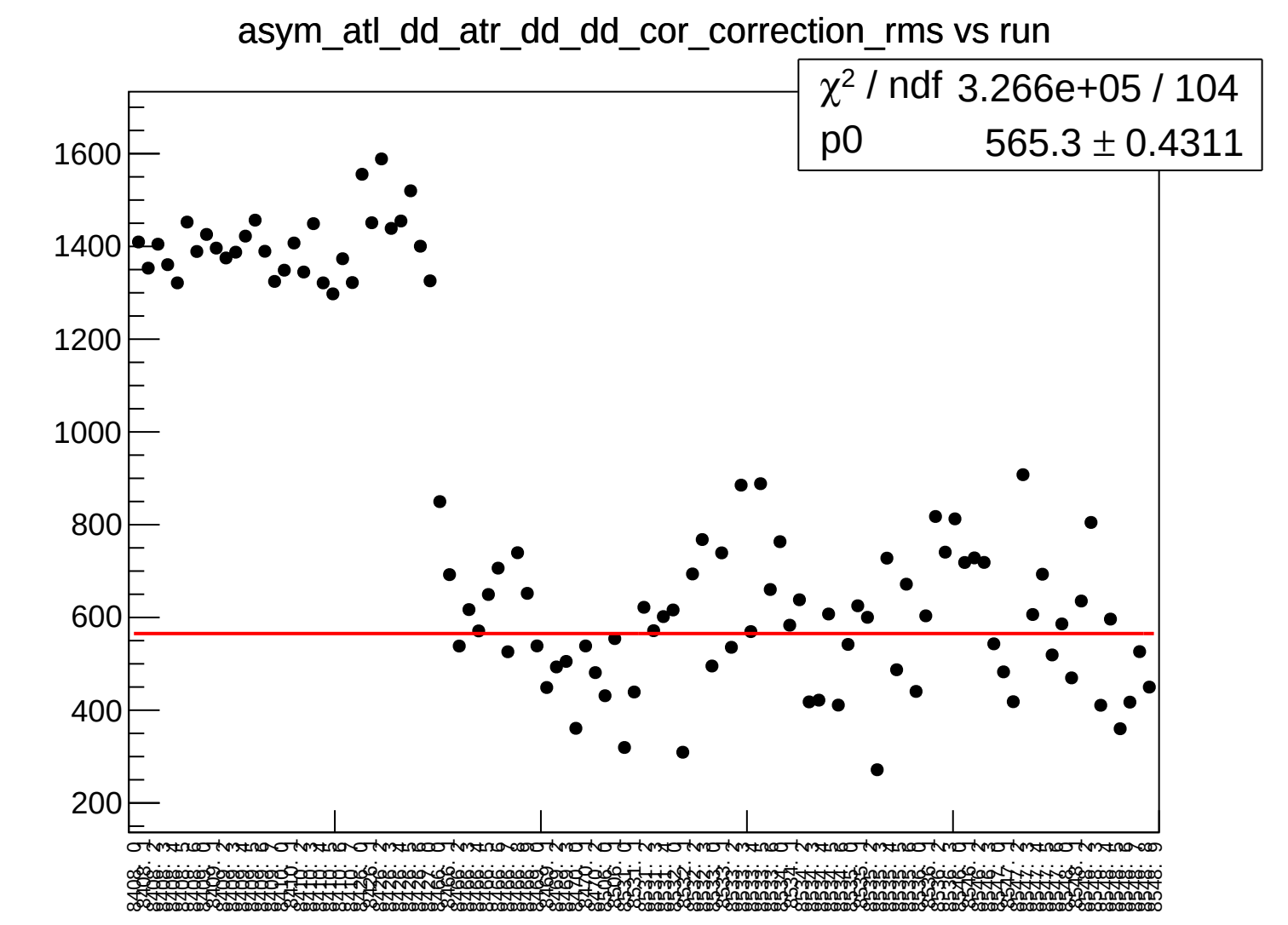

asym_atl_dd_atr_dd_dd_reg_correction_rms vs run
χ² / ndf 3.272e+05 / 104
p0 564.9 ± 0.4308
1600
1400
1200
1000
800
600
400
200

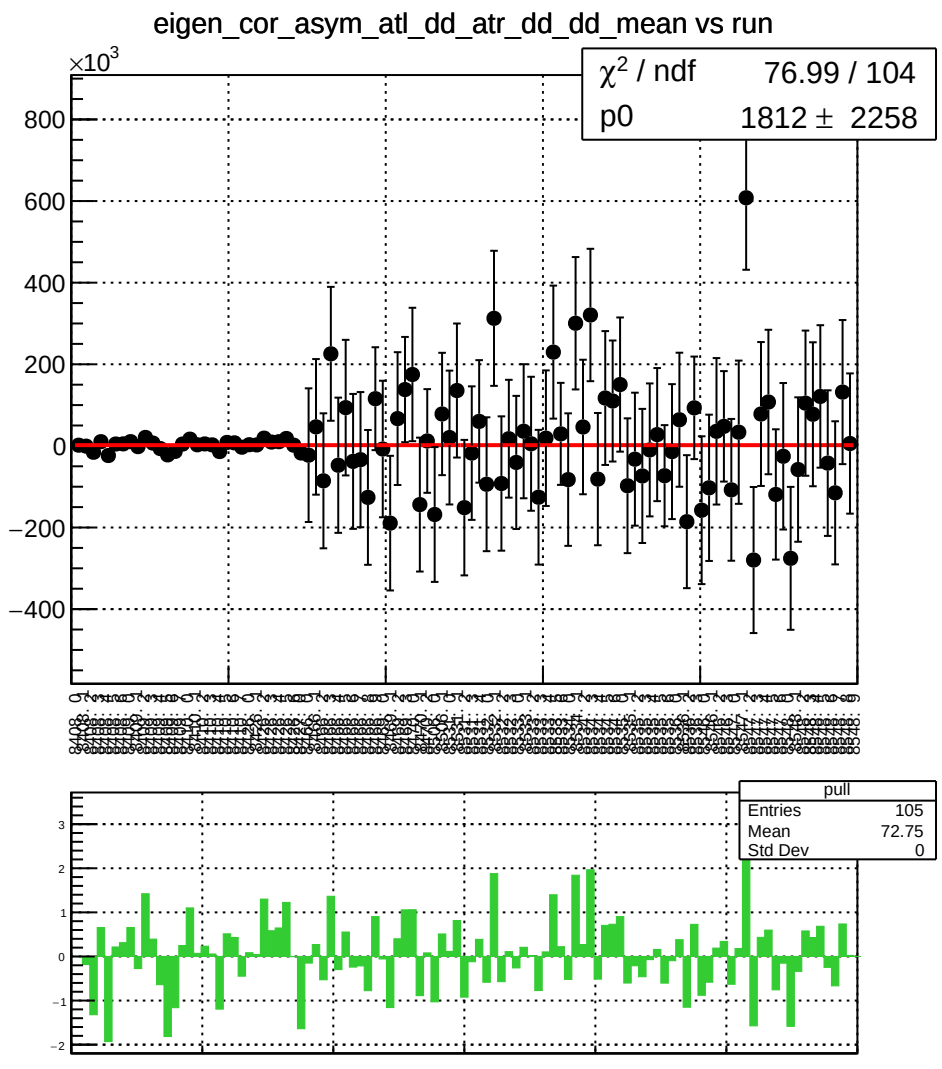

cor_asym_atl_dd_atr_dd_dd_mean vs run
×10^3
χ^2 / ndf 76.99 / 104
p0 1812 ± 2258
800
600
400
200
0
−200
−400
pull
Entries 105
Mean 72.75
Std Dev 0
3
2
1
0
−1
−2

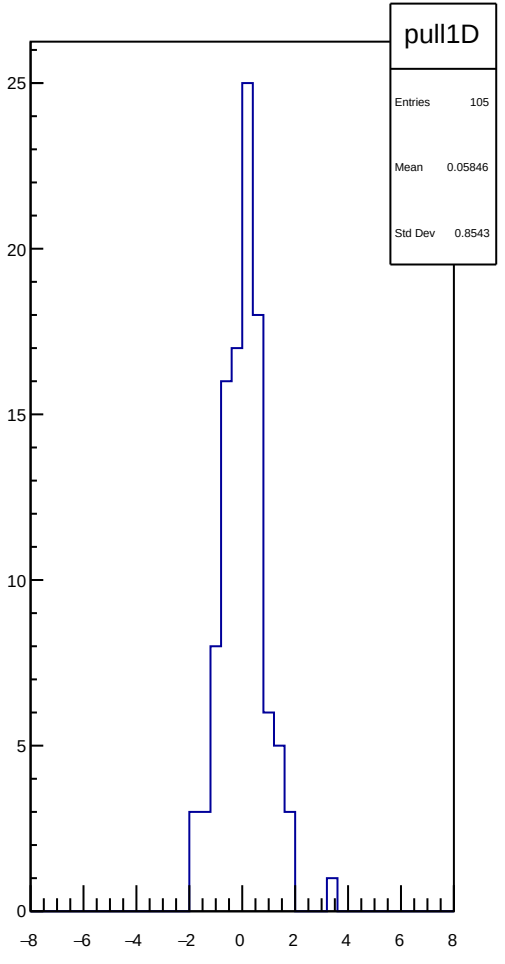

pull1D
Entries 105
Mean 0.05846
Std Dev 0.8543
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

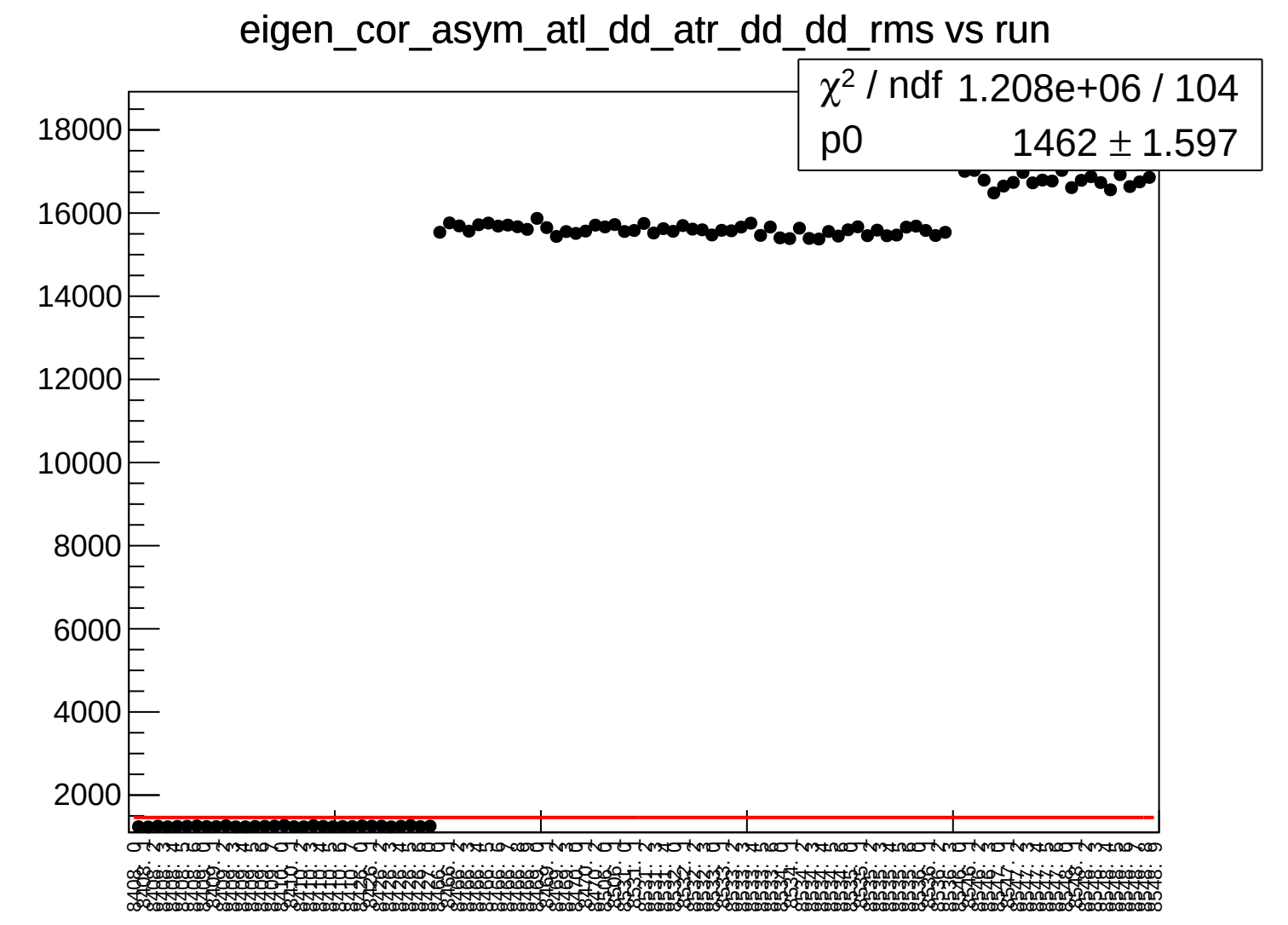

cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 1.208e+06 / 104
p0 1462 ± 1.597
18000
16000
14000
12000
10000
8000
6000
4000
2000

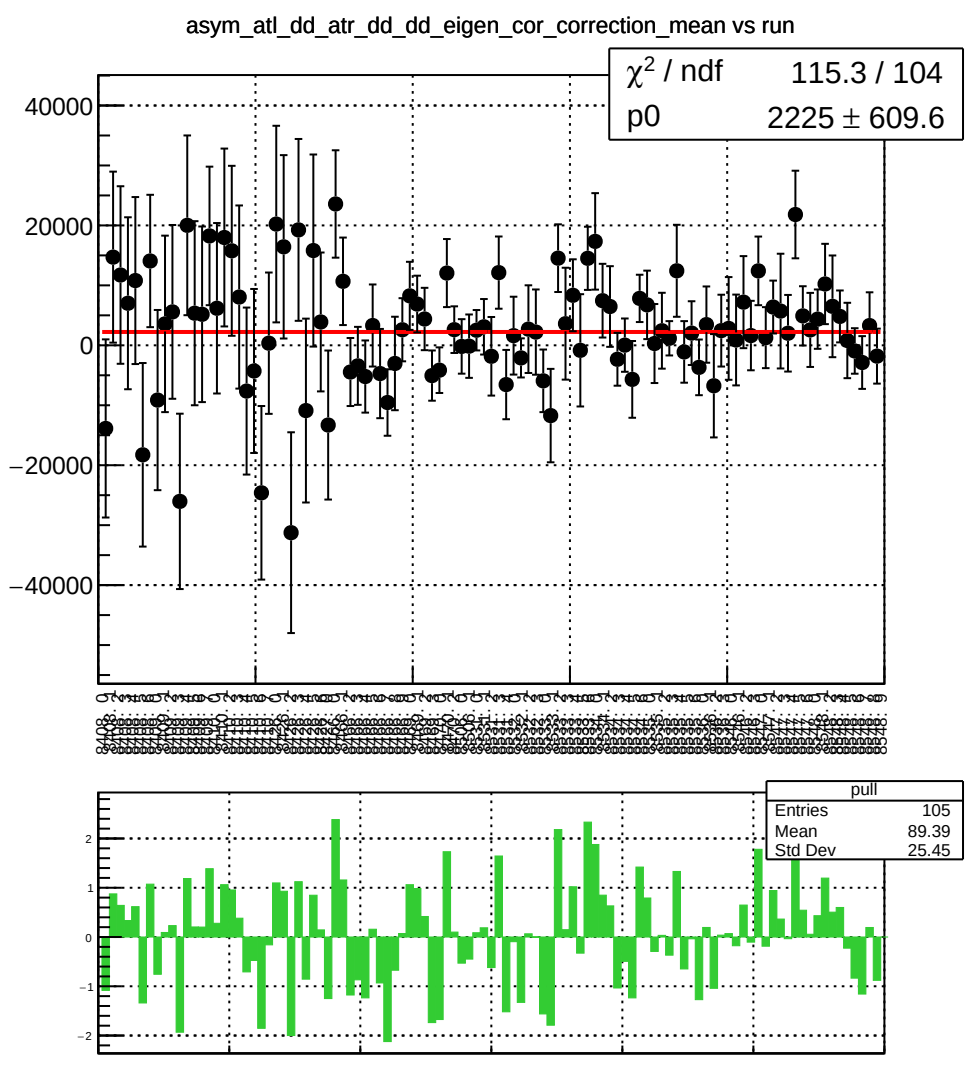

asym_atl_dd_atr_dd_dd_cor_correction_mean vs run
χ² / ndf 115.3 / 104
p0 2225 ± 609.6
40000
20000
0
−20000
−40000
pull
Entries 105
Mean 89.39
Std Dev 25.45
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.0524
Std Dev 1.047
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

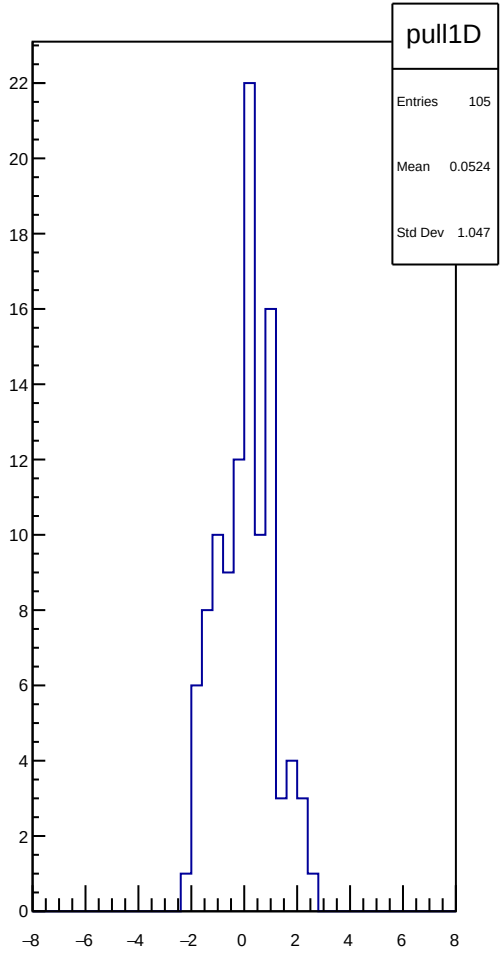

asym_atl_dd_atr_dd_dd_cor_correction_rms vs run
χ² / ndf 3.266e+05 / 104
p0 565.3 ± 0.4311
1600
1400
1200
1000
800
600
400
200

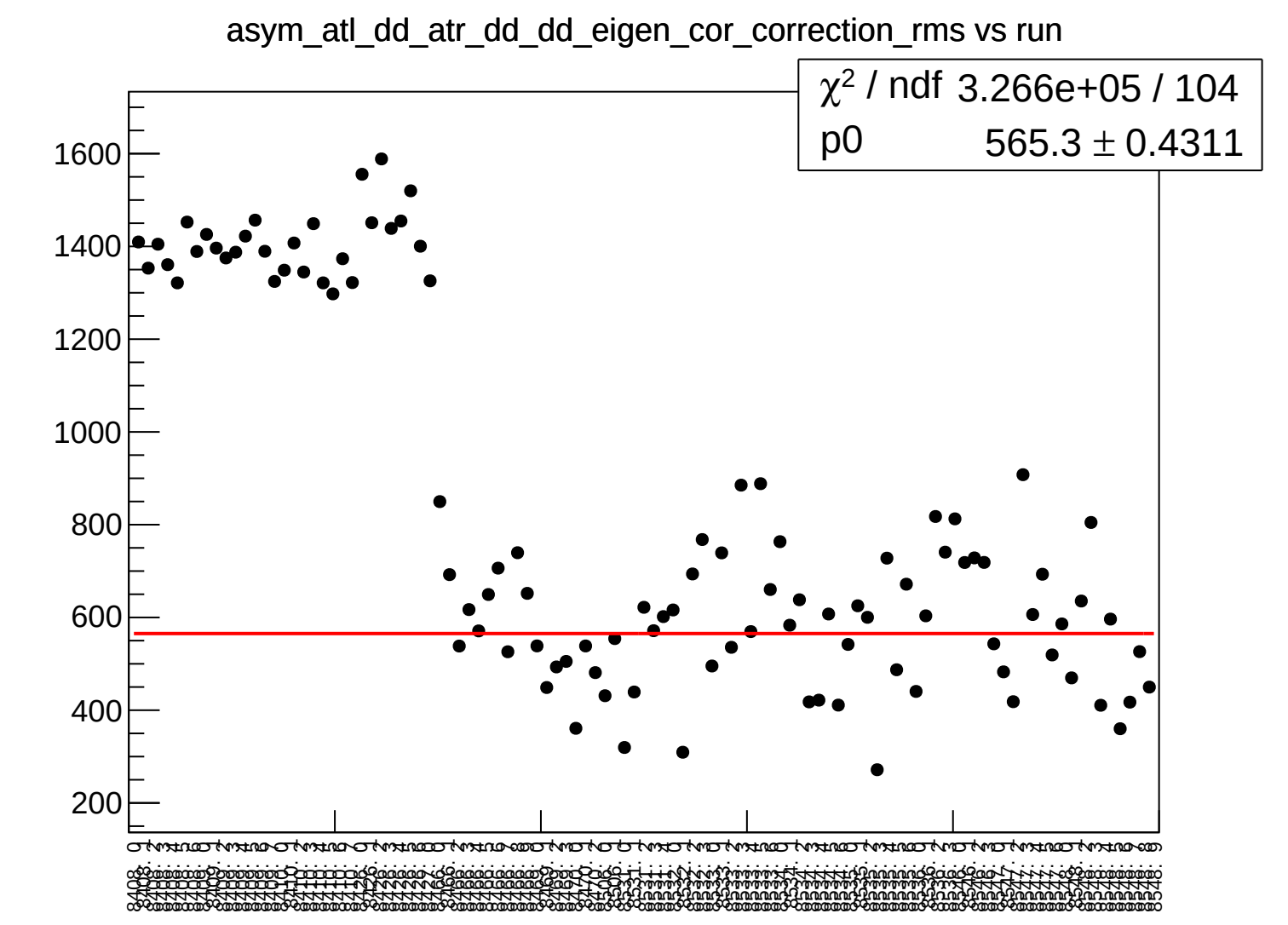

eigen_cor_asym_atl_dd_atr_dd_dd_mean vs run
×10^3
χ² / ndf 76.99 / 104
p0 1812 ± 2258
800
600
400
200
0
−200
−400
pull
Entries 105
Mean 72.75
Std Dev 0
3
2
1
0
−1
−2

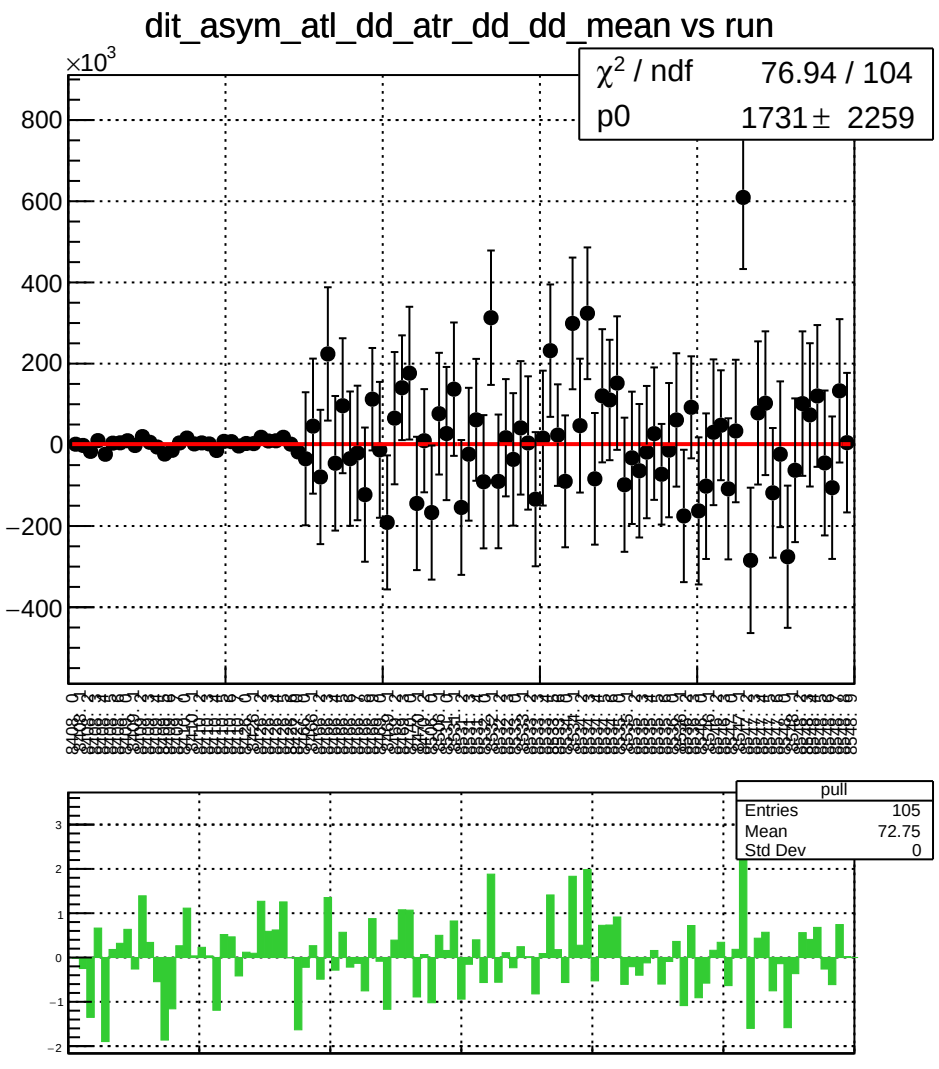

pull1D
Entries 105
Mean 0.05846
Std Dev 0.8543
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

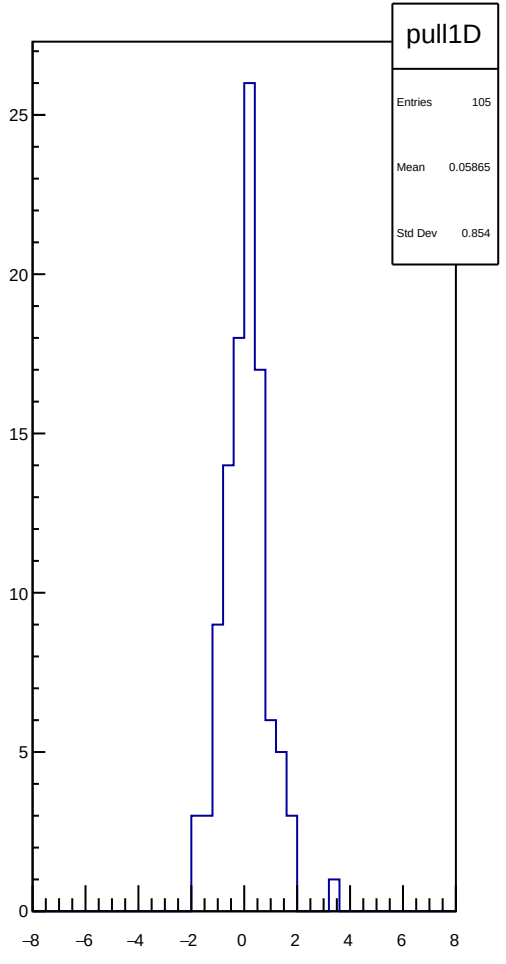

eigen_cor_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 1.208e+06 / 104
p0 1462 ± 1.597
18000
16000
14000
12000
10000
8000
6000
4000
2000

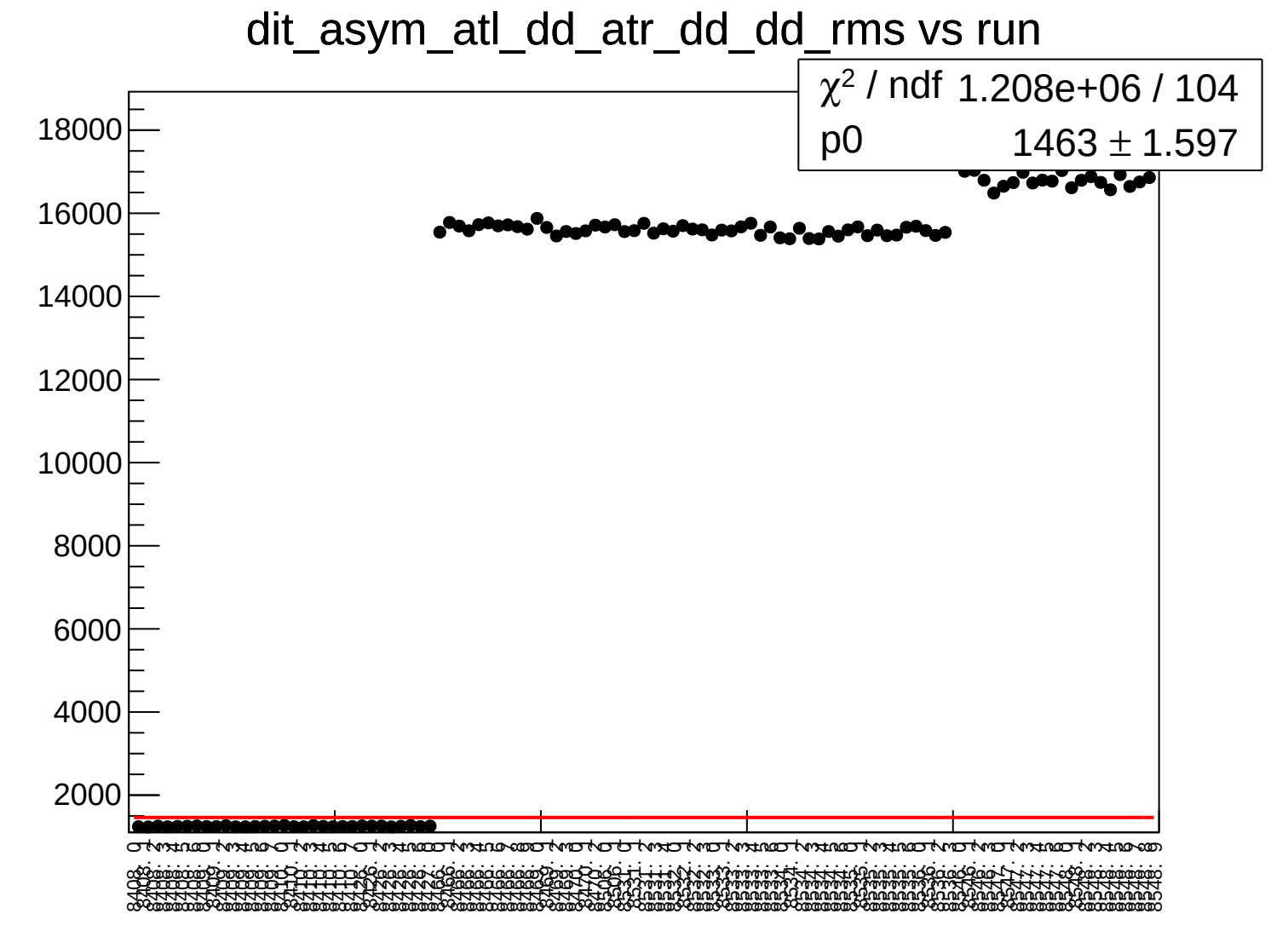

asym_atl_dd_atr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 115.3 / 104
p0 2225 ± 609.6
40000
20000
0
−20000
−40000
pull
Entries 105
Mean 89.39
Std Dev 25.45
2
1
0
−1
−2

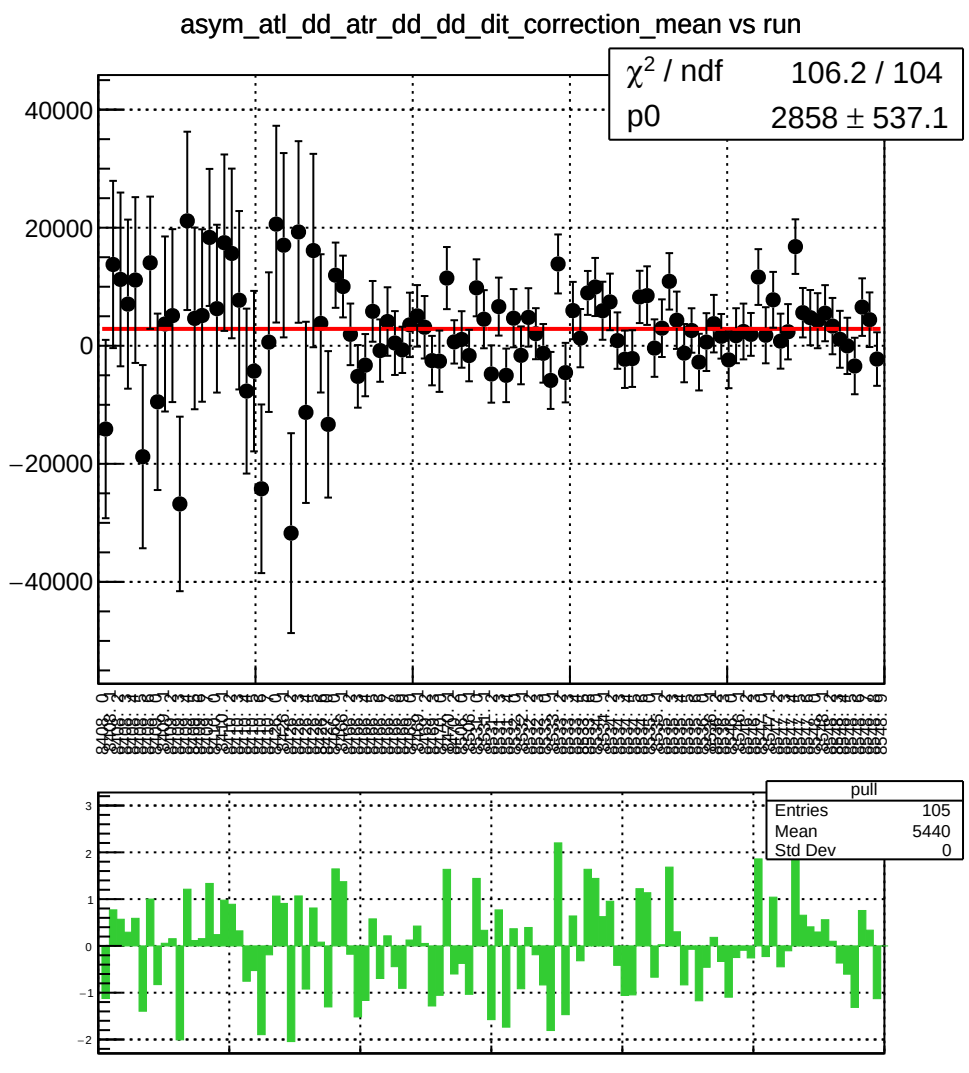

pull1D
Entries 105
Mean 0.0524
Std Dev 1.047
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

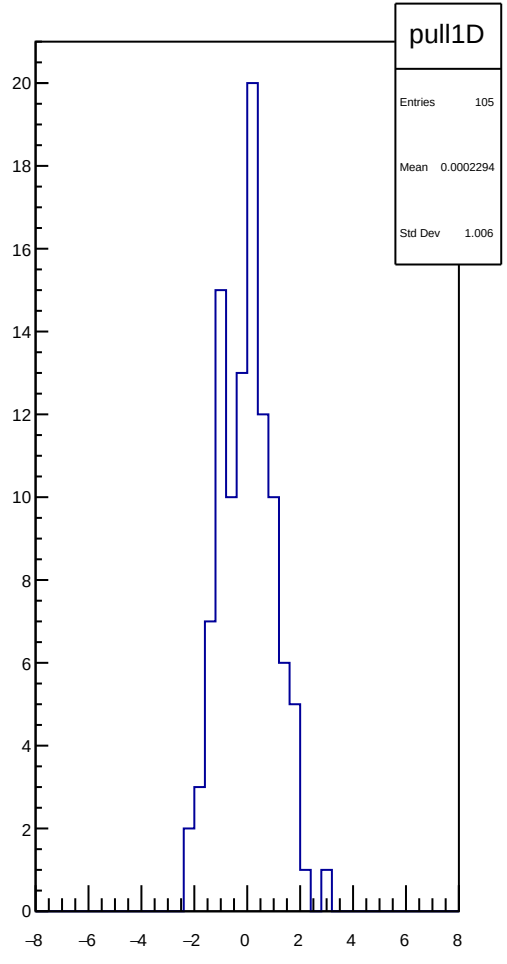

asym_atl_dd_atr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 3.266e+05 / 104
p0 565.3 ± 0.4311
1600
1400
1200
1000
800
600
400
200

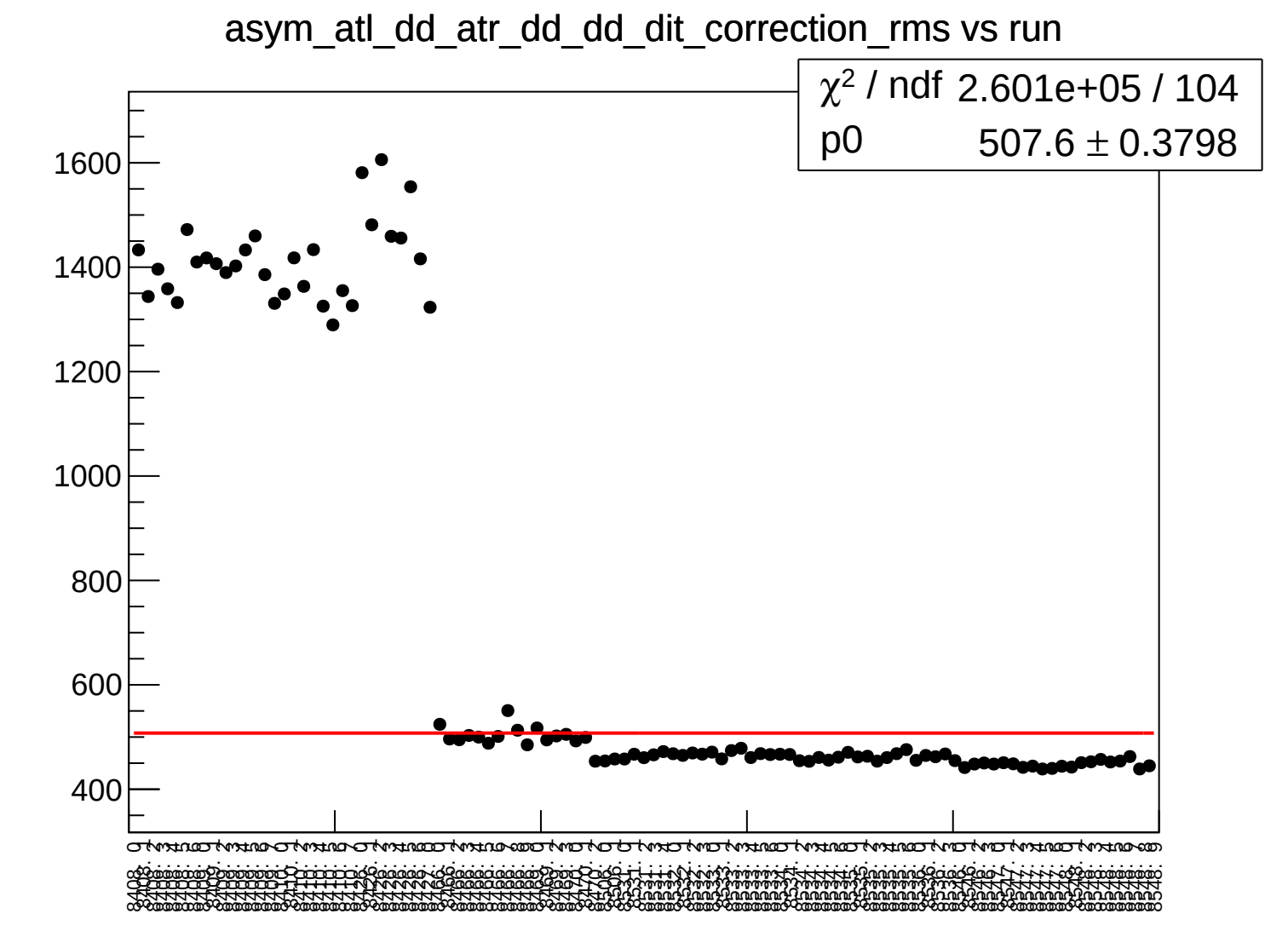

dit_asym_atl_dd_atr_dd_dd_mean vs run
×10^3
χ^2 / ndf 76.94 / 104
p0 1731 ± 2259
800
600
400
200
0
−200
−400
pull
Entries 105
Mean 72.75
Std Dev 0
3
2
1
0
−1
−2

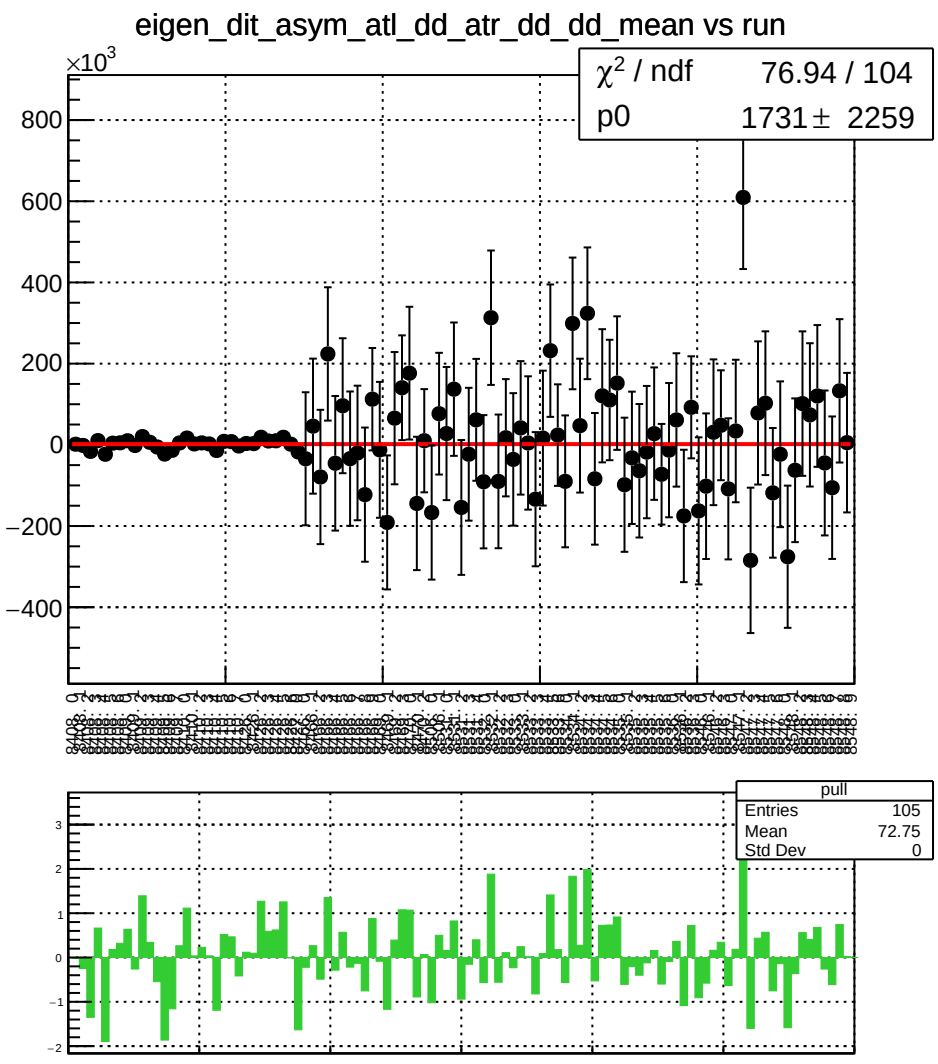

pull1D
Entries 105
Mean 0.05865
Std Dev 0.854
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

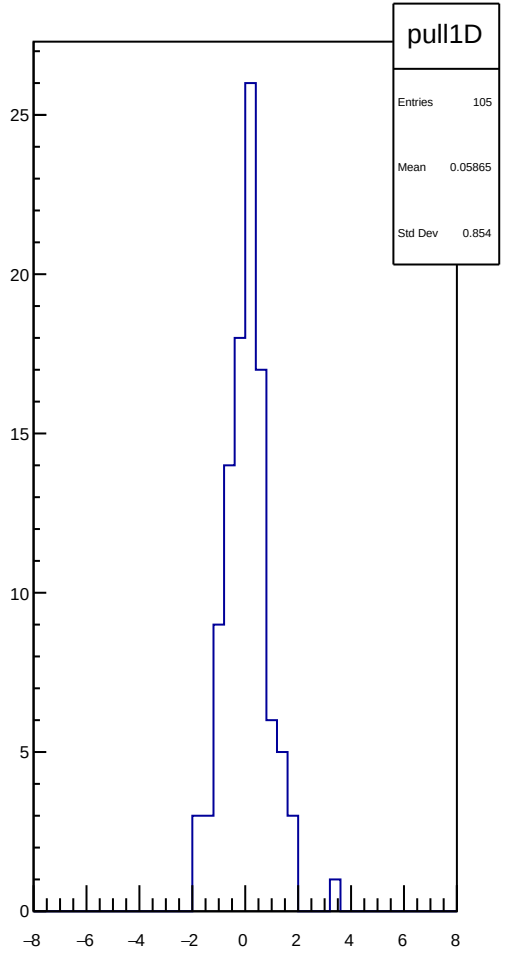

dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 1.208e+06 / 104
p0 1463 ± 1.597
18000
16000
14000
12000
10000
8000
6000
4000
2000

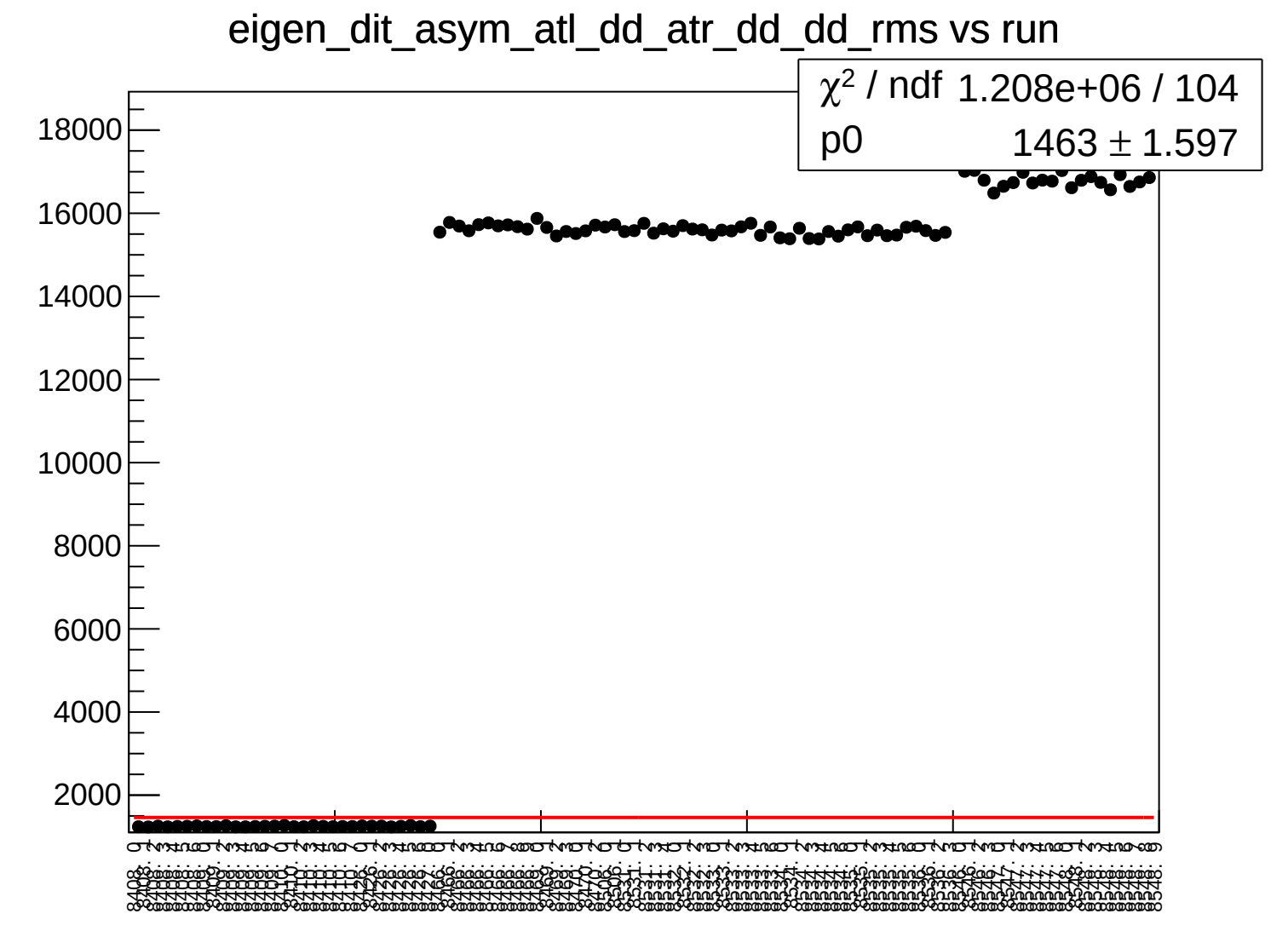

asym_atl_dd_atr_dd_dd_dit_correction_mean vs run
χ² / ndf 106.2 / 104
p0 2858 ± 537.1
40000
20000
0
−20000
−40000
pull
Entries 105
Mean 5440
Std Dev 0
3
2
1
0
−1
−2

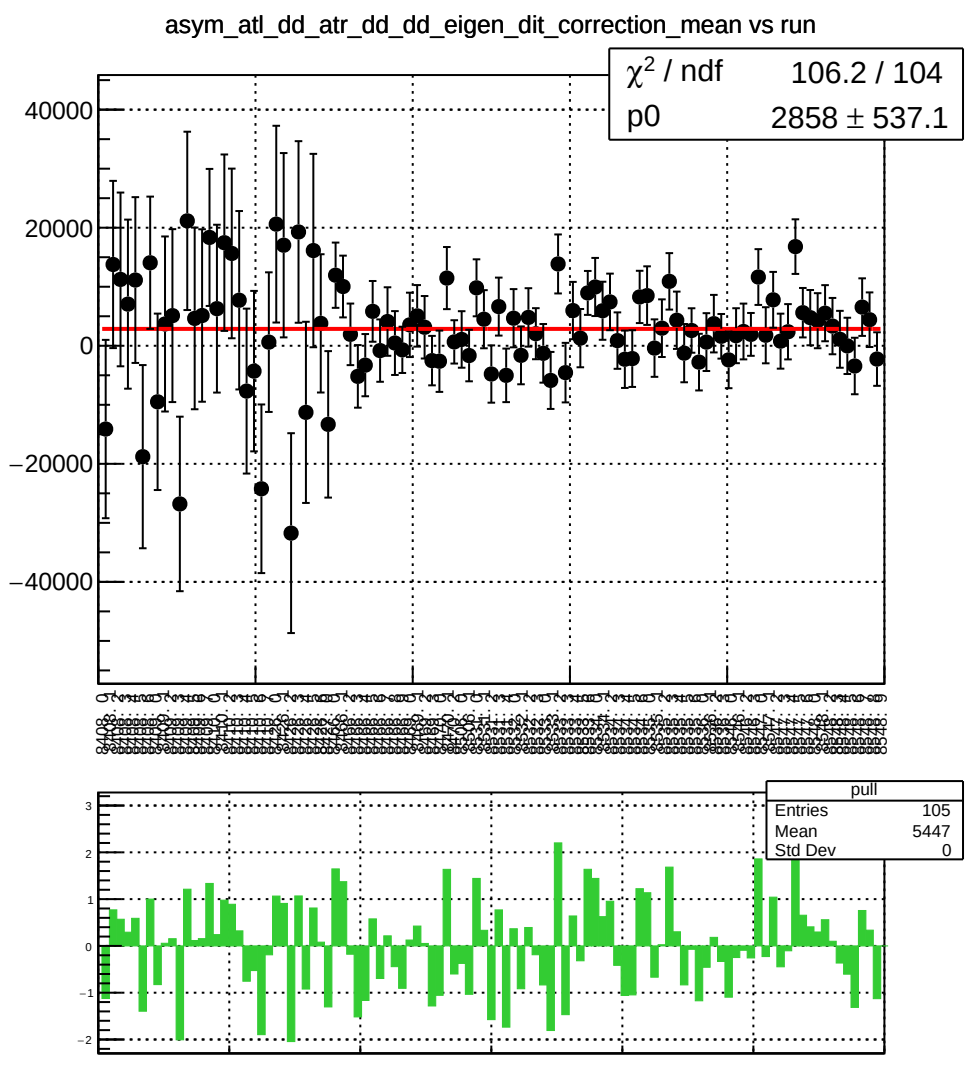

pull1D
Entries 105
Mean 0.0002294
Std Dev 1.006
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

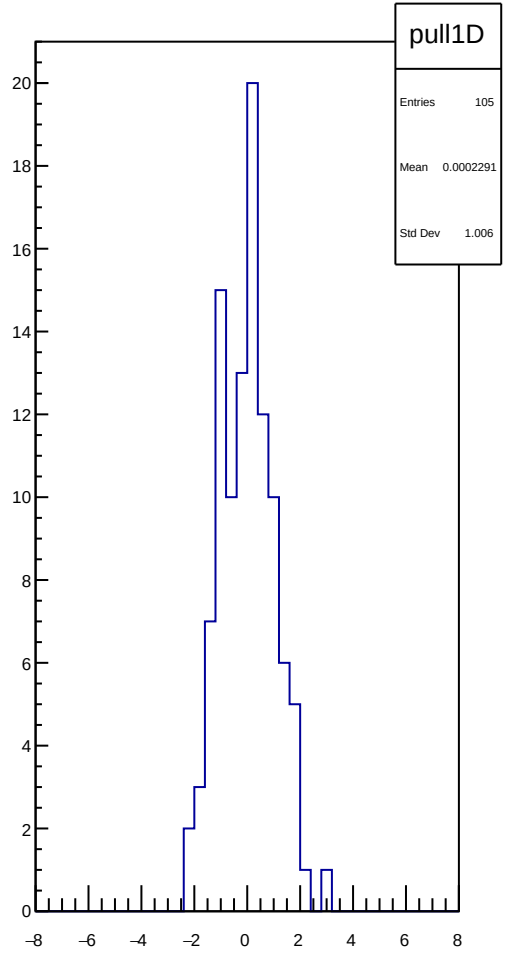

asym_atl_dd_atr_dd_dd_dit_correction_rms vs run
χ² / ndf 2.601e+05 / 104
p0 507.6 ± 0.3798
1600
1400
1200
1000
800
600
400

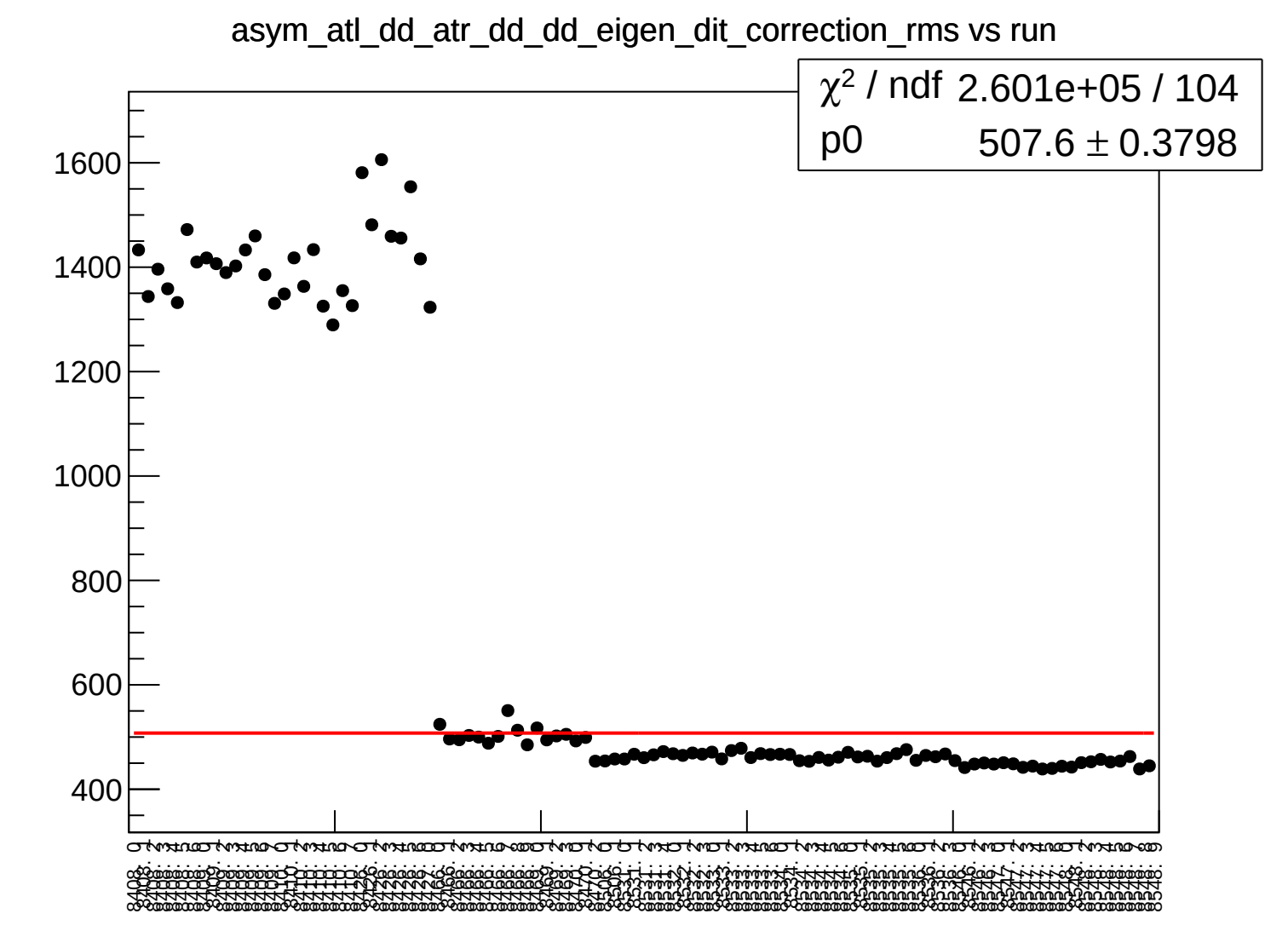

eigen_dit_asym_atl_dd_atr_dd_dd_mean vs run
×10^3
χ^2 / ndf 76.94 / 104
p0 1731 ± 2259
800
600
400
200
0
−200
−400
pull
Entries 105
Mean 72.75
Std Dev 0
3
2
1
0
−1
−2

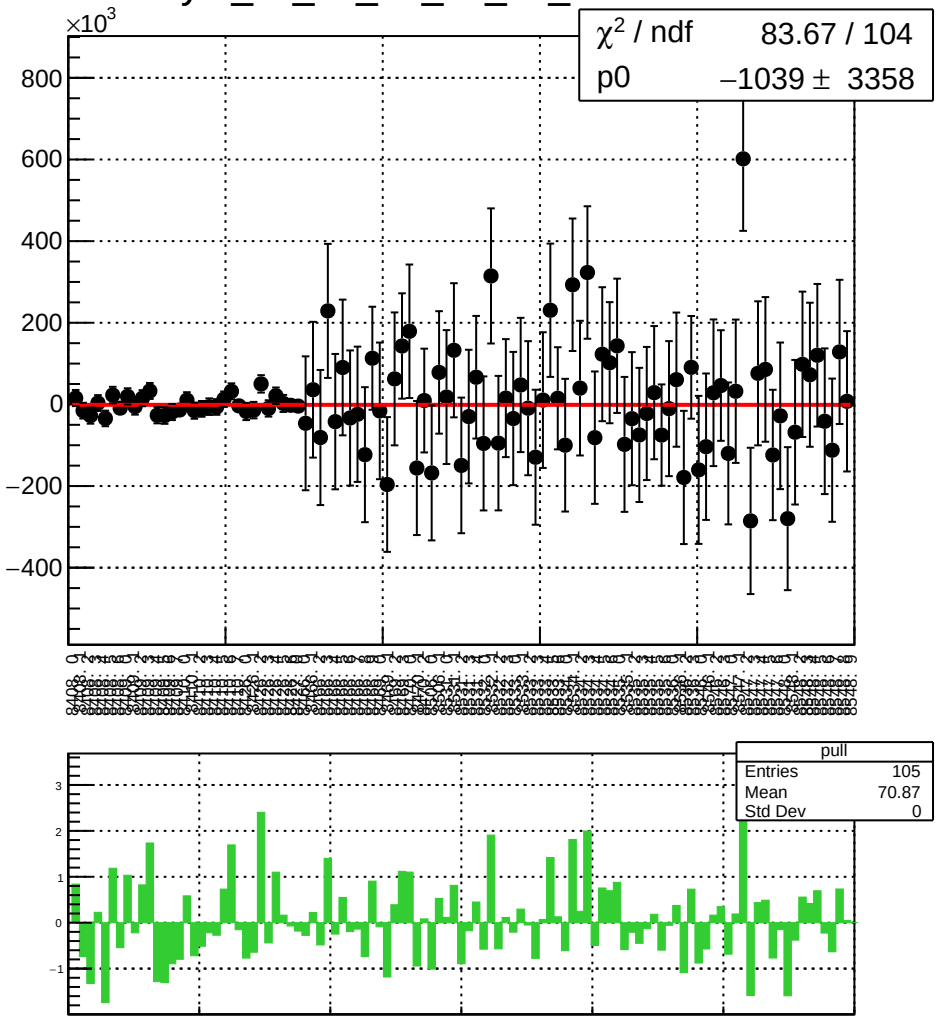

pull1D
Entries 105
Mean 0.05865
Std Dev 0.854
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

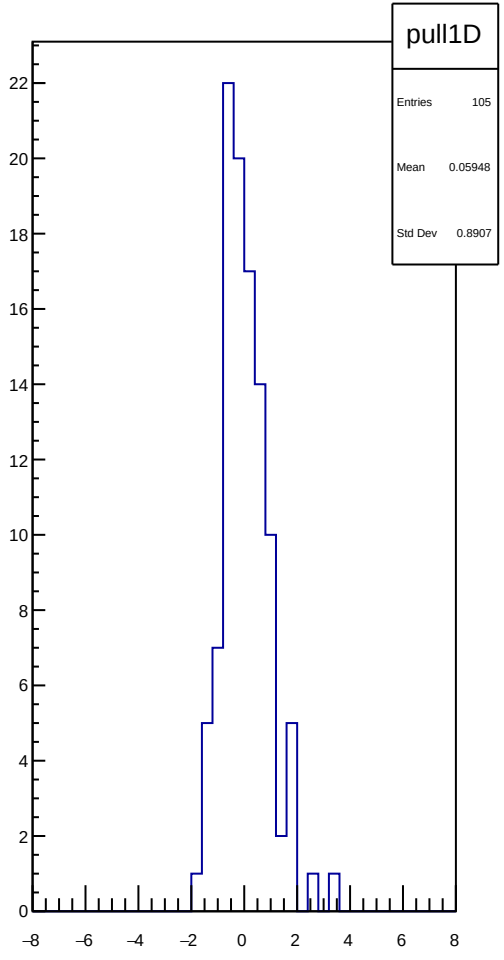

eigen_dit_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 1.208e+06 / 104
p0 1463 ± 1.597
18000
16000
14000
12000
10000
8000
6000
4000
2000

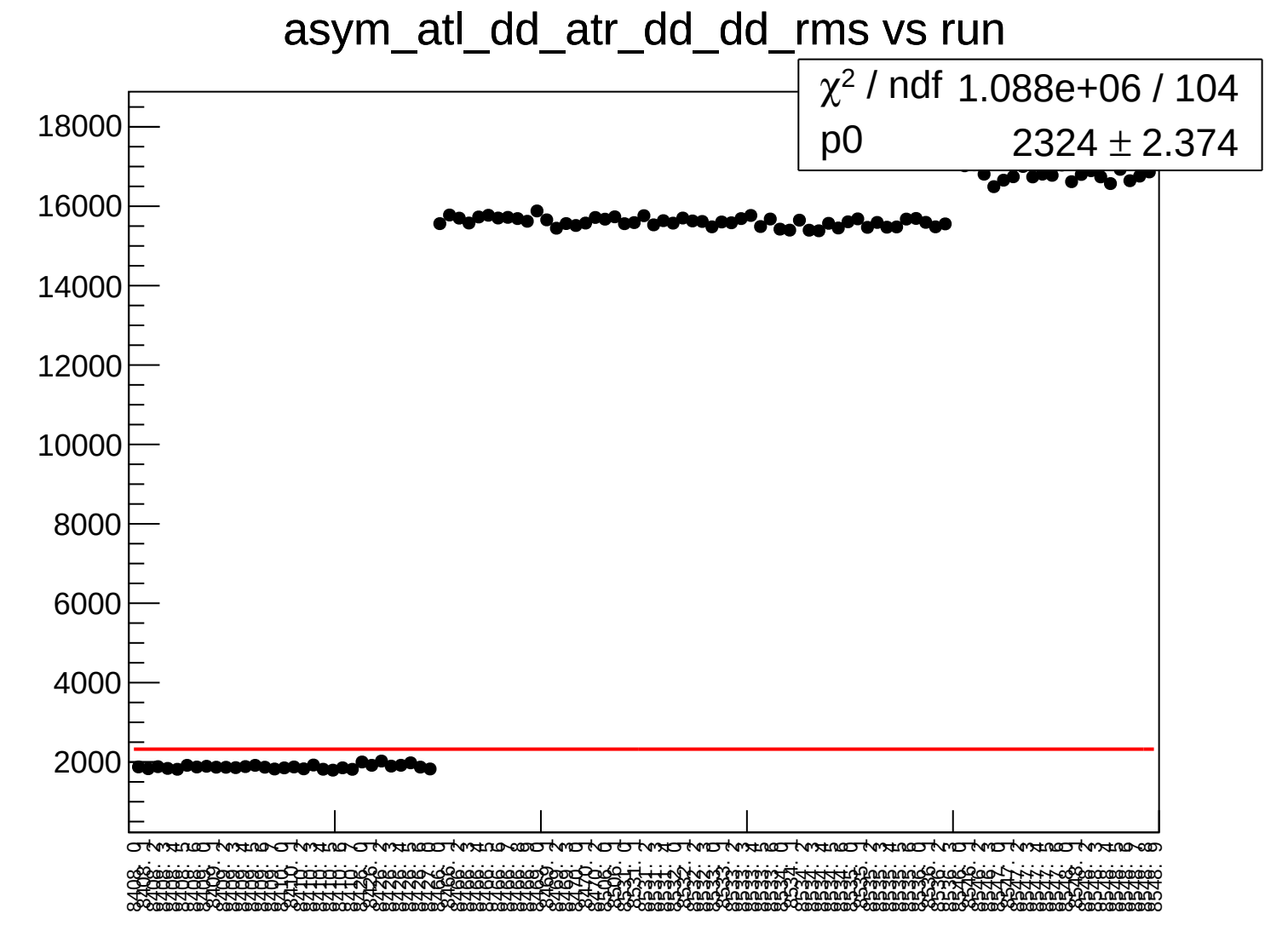

asym_atl_dd_atr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 106.2 / 104
p0 2858 ± 537.1
40000
20000
0
−20000
−40000
pull
Entries 105
Mean 5447
Std Dev 0
3
2
1
0
−1
−2

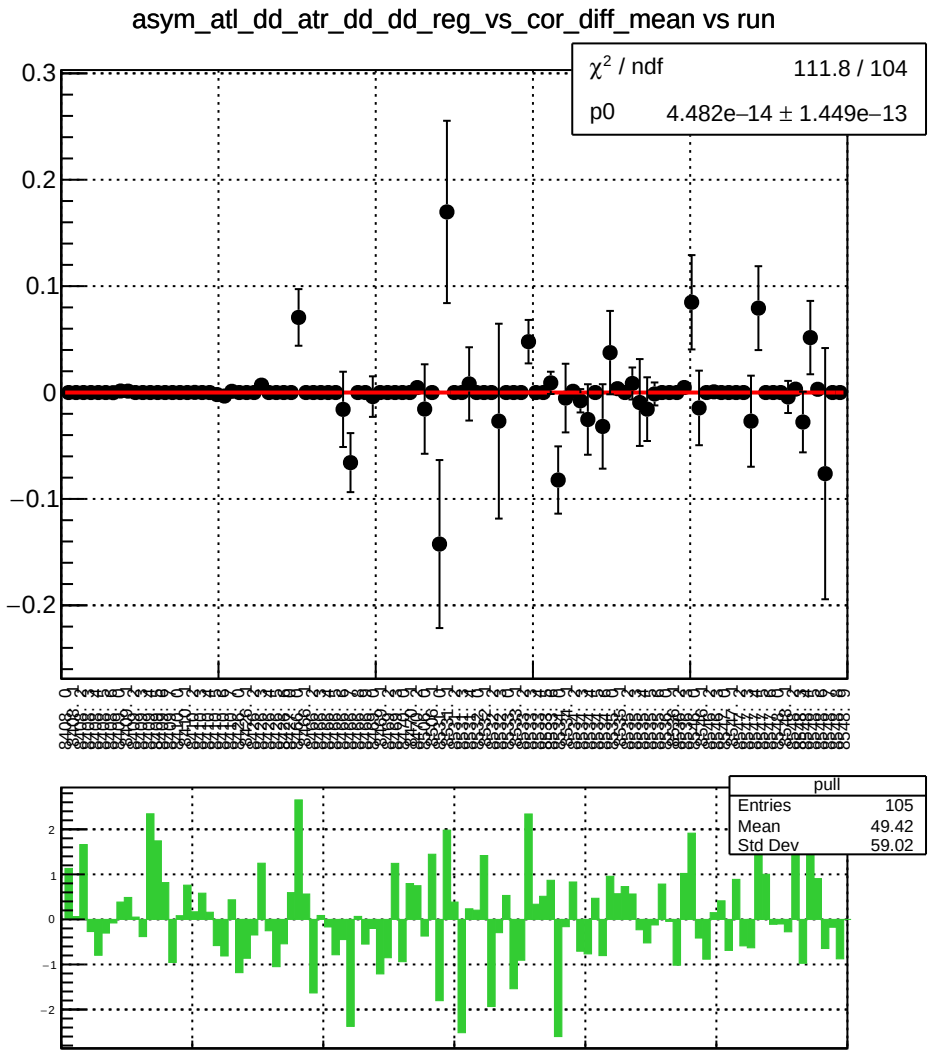

pull1D
Entries 105
Mean 0.0002291
Std Dev 1.006
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

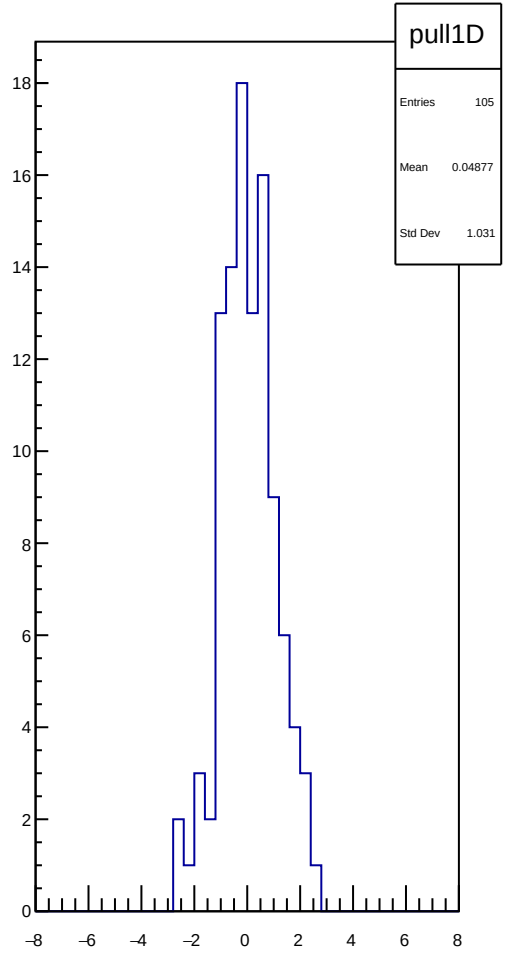

asym_atl_dd_atr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.601e+05 / 104
p0 507.6 ± 0.3798
1600
1400
1200
1000
800
600
400

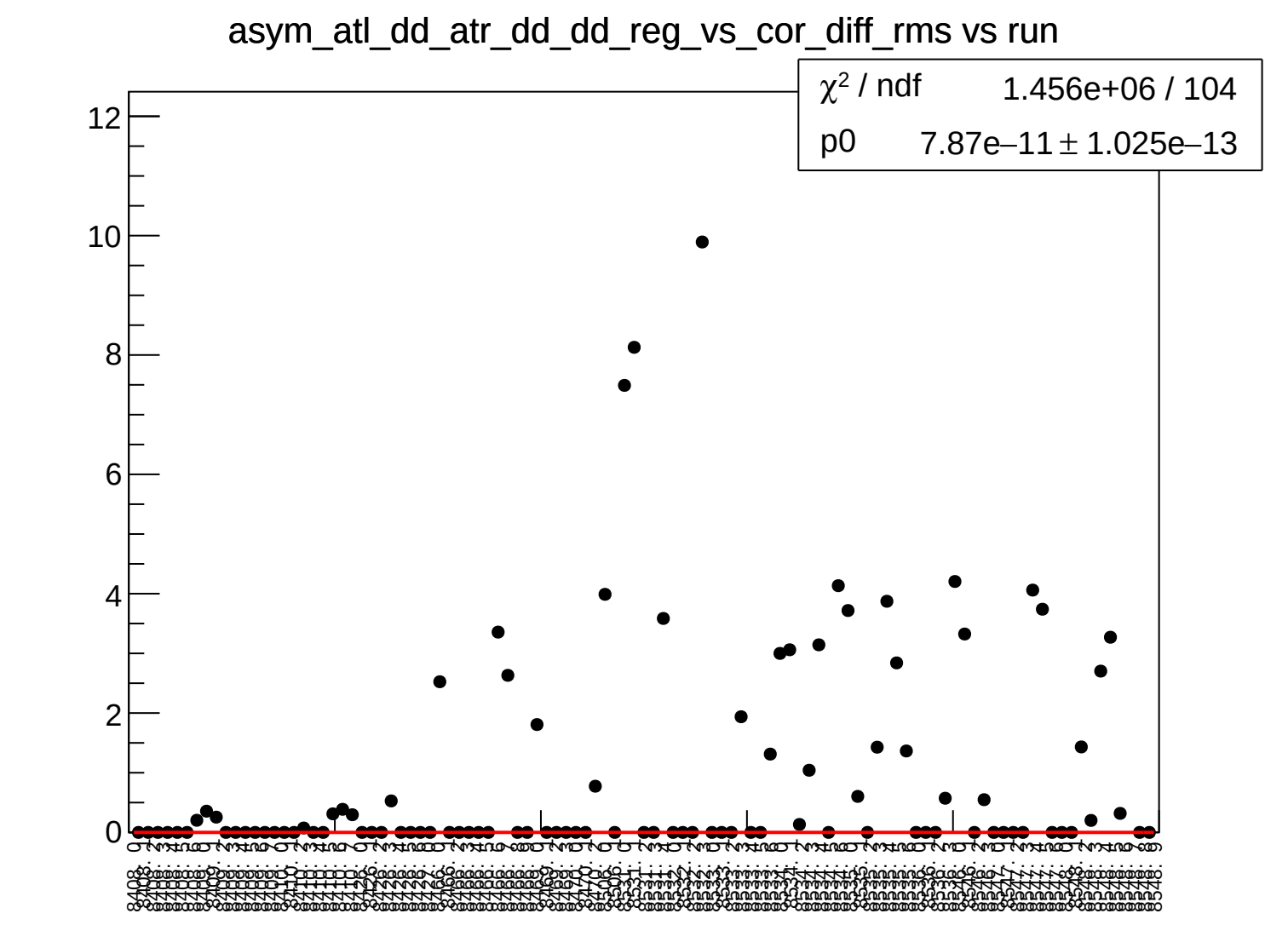

asym_atl_dd_atr_dd_dd_mean vs run
×10^3
χ² / ndf 83.67 / 104
p0 −1039 ± 3358
800
600
400
200
0
−200
−400
pull
Entries 105
Mean 70.87
Std Dev 0
3
2
1
0
−1

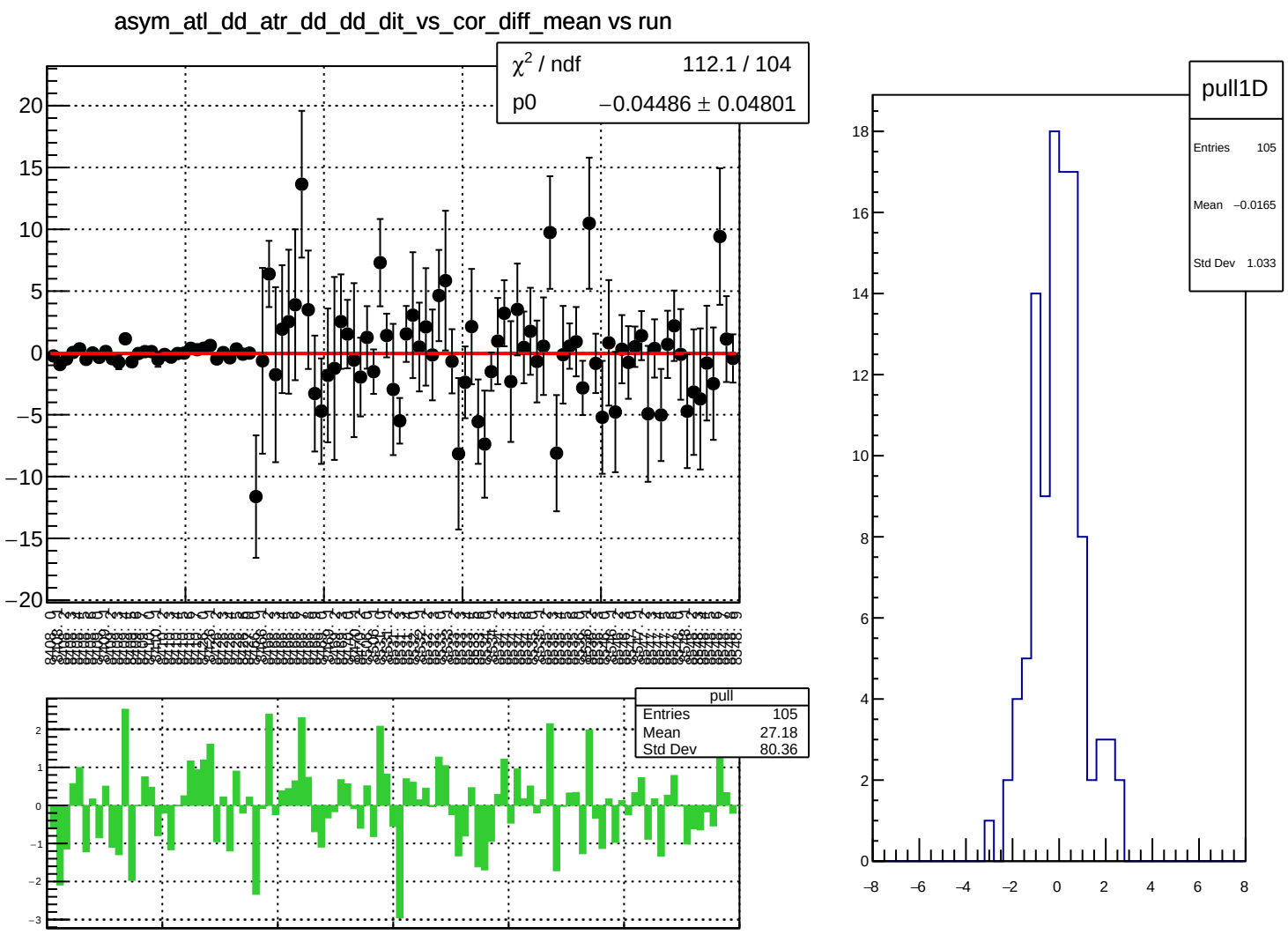

pull1D
Entries 105
Mean 0.05948
Std Dev 0.8907
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

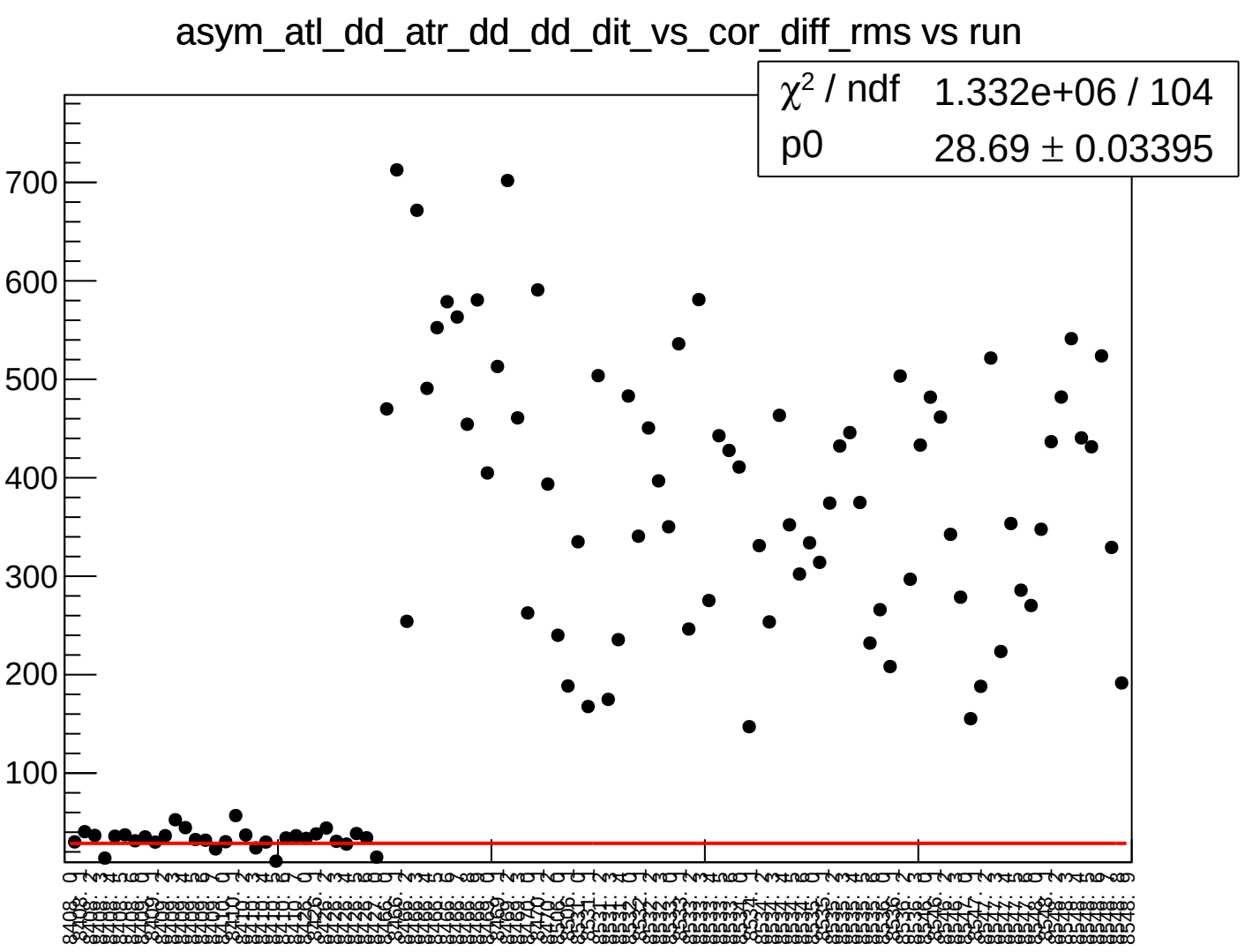

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 1.088e+06 / 104
p0 2324 ± 2.374
18000
16000
14000
12000
10000
8000
6000
4000
2000

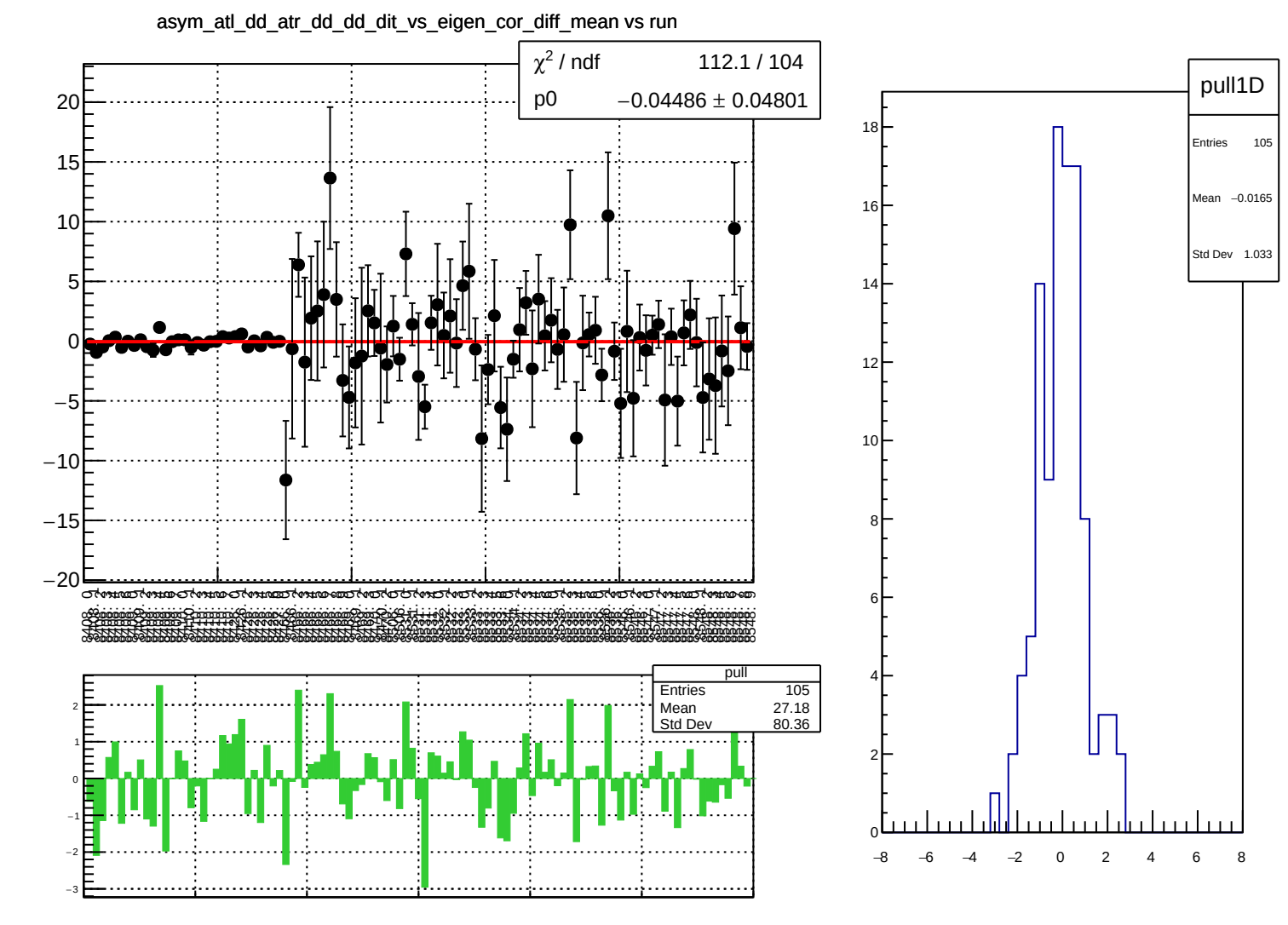

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 111.8 / 104
p0 4.482e−14 ± 1.449e−13
0.3
0.2
0.1
0
−0.1
−0.2
pull
Entries 105
Mean 49.42
Std Dev 59.02
2
1
0
−1
−2

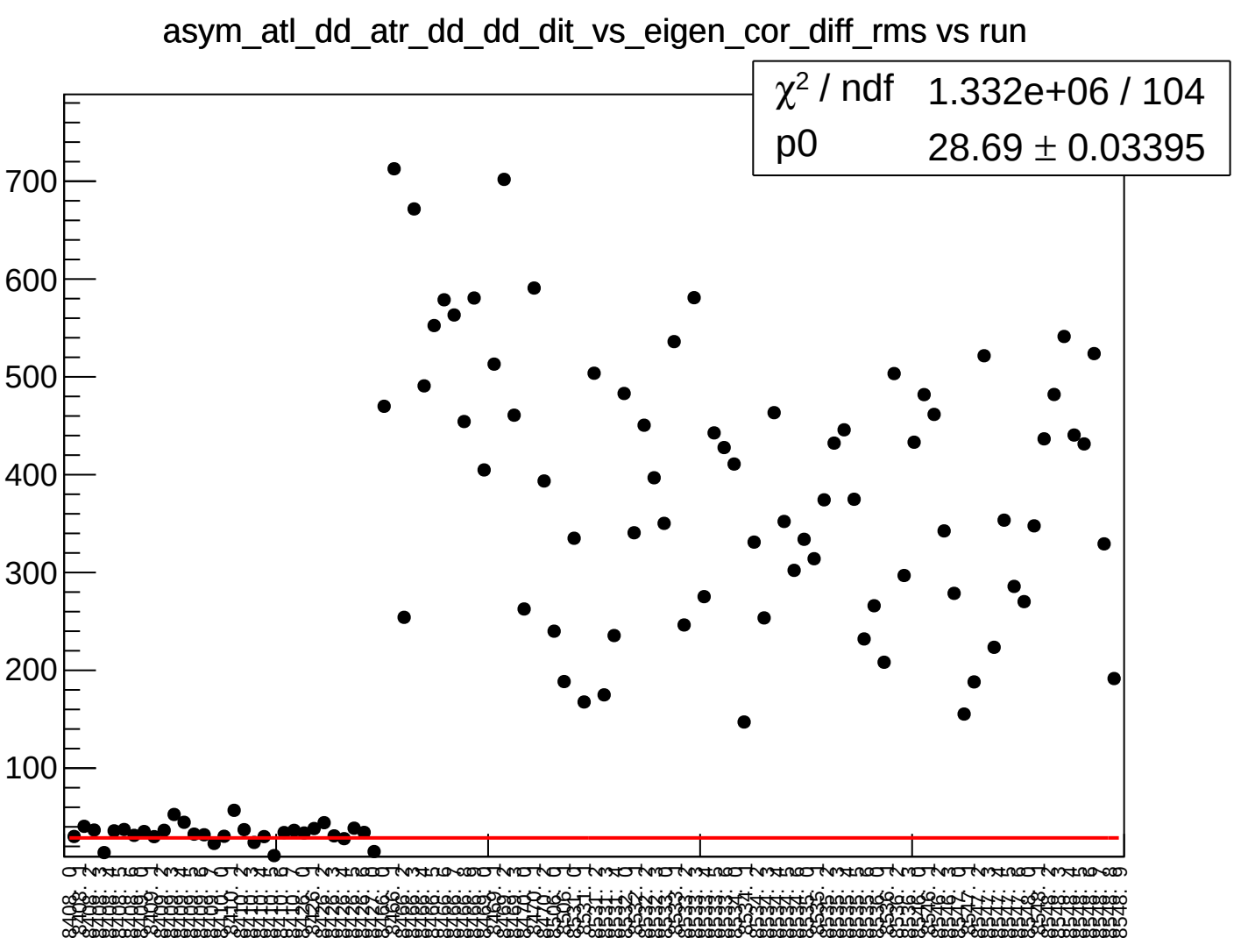

pull1D
Entries 105
Mean 0.04877
Std Dev 1.031
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

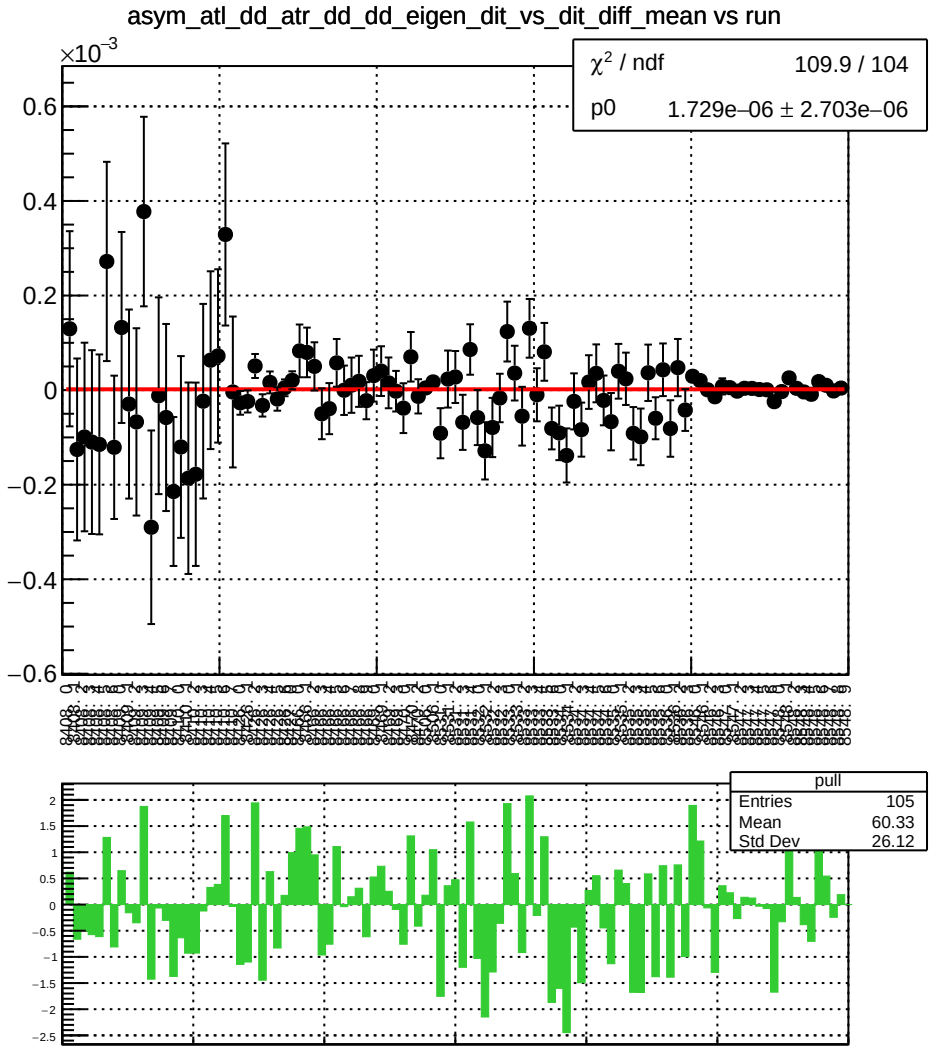

asym_atl_dd_atr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.456e+06 / 104
p0 7.87e−11 ± 1.025e−13
12
10
8
6
4
2
0

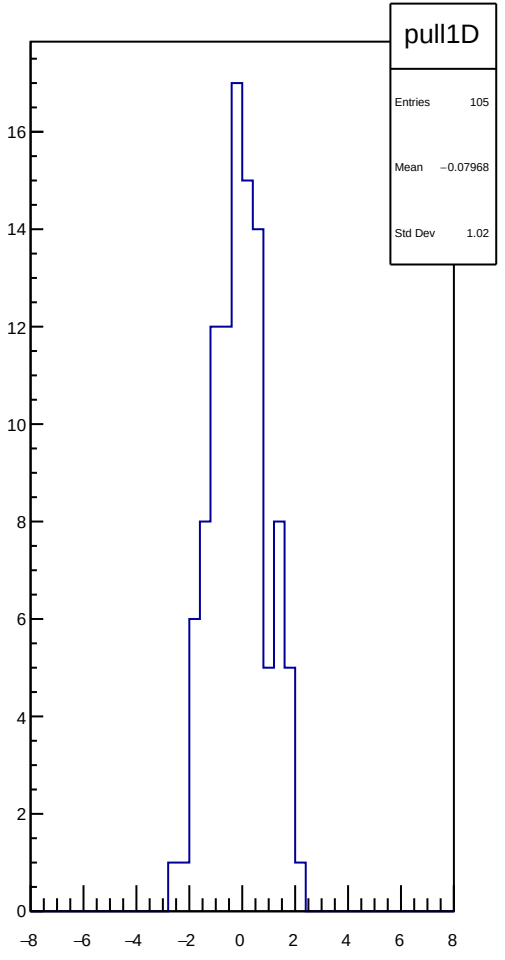

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 112.1 / 104
p0 −0.04486 ± 0.04801
pull
Entries 105
Mean 27.18
Std Dev 80.36
pull1D
Entries 105
Mean −0.0165
Std Dev 1.033

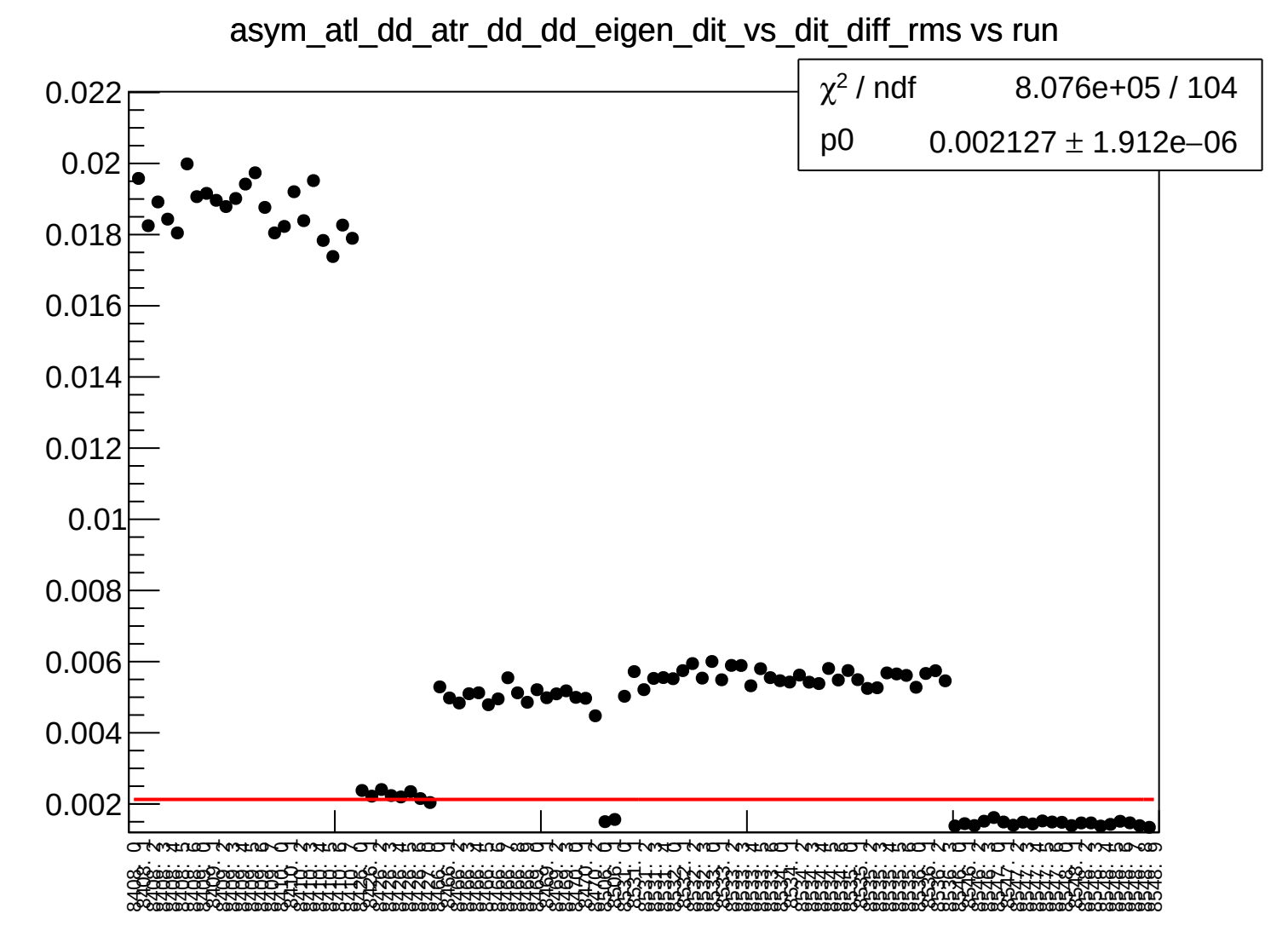

asym_atl_dd_atr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.332e+06 / 104
p0 28.69 ± 0.03395
700
600
500
400
300
200
100

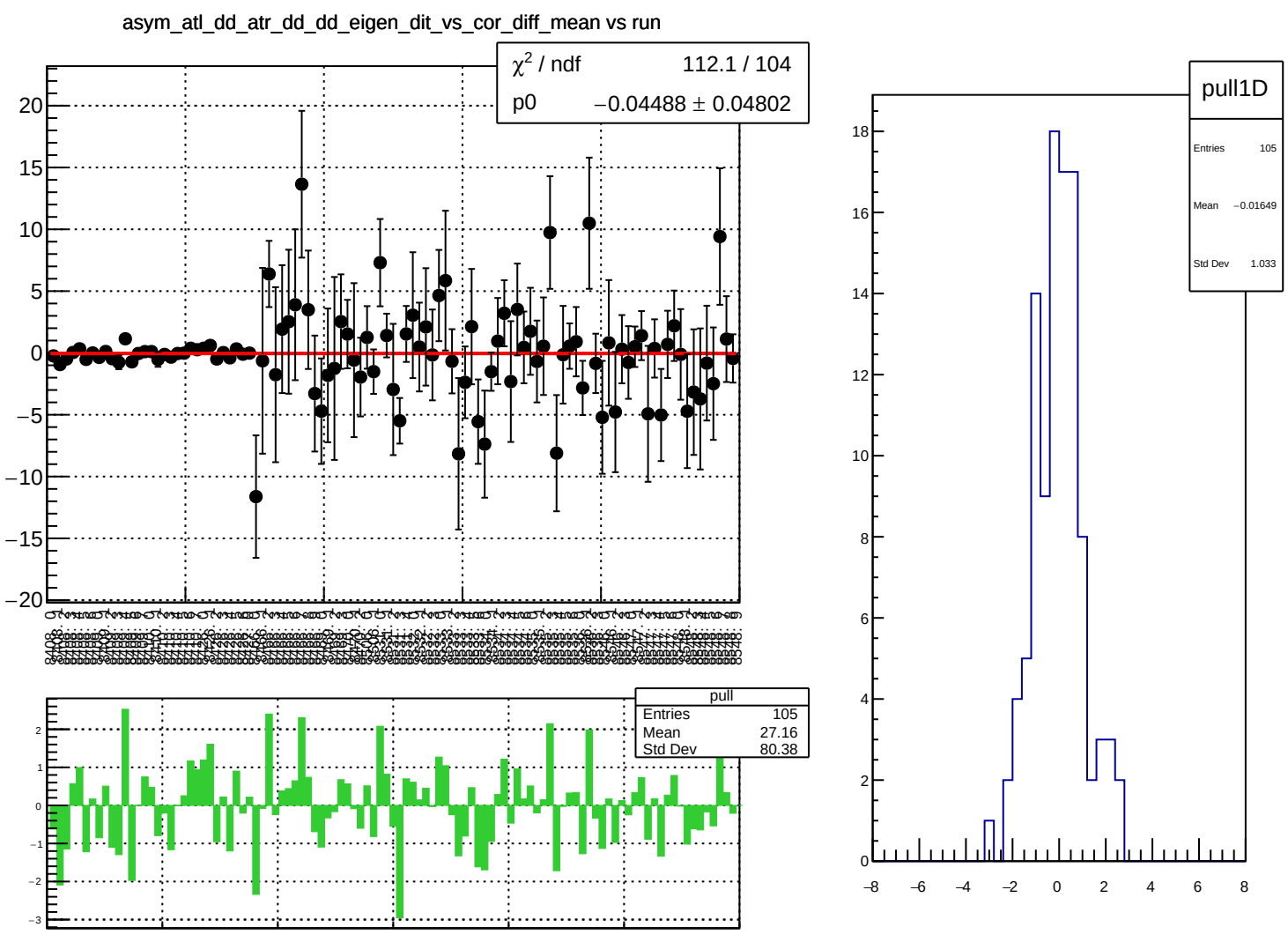

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 112.1 / 104
p0 −0.04486 ± 0.04801
pull
Entries 105
Mean 27.18
Std Dev 80.36
pull1D
Entries 105
Mean −0.0165
Std Dev 1.033

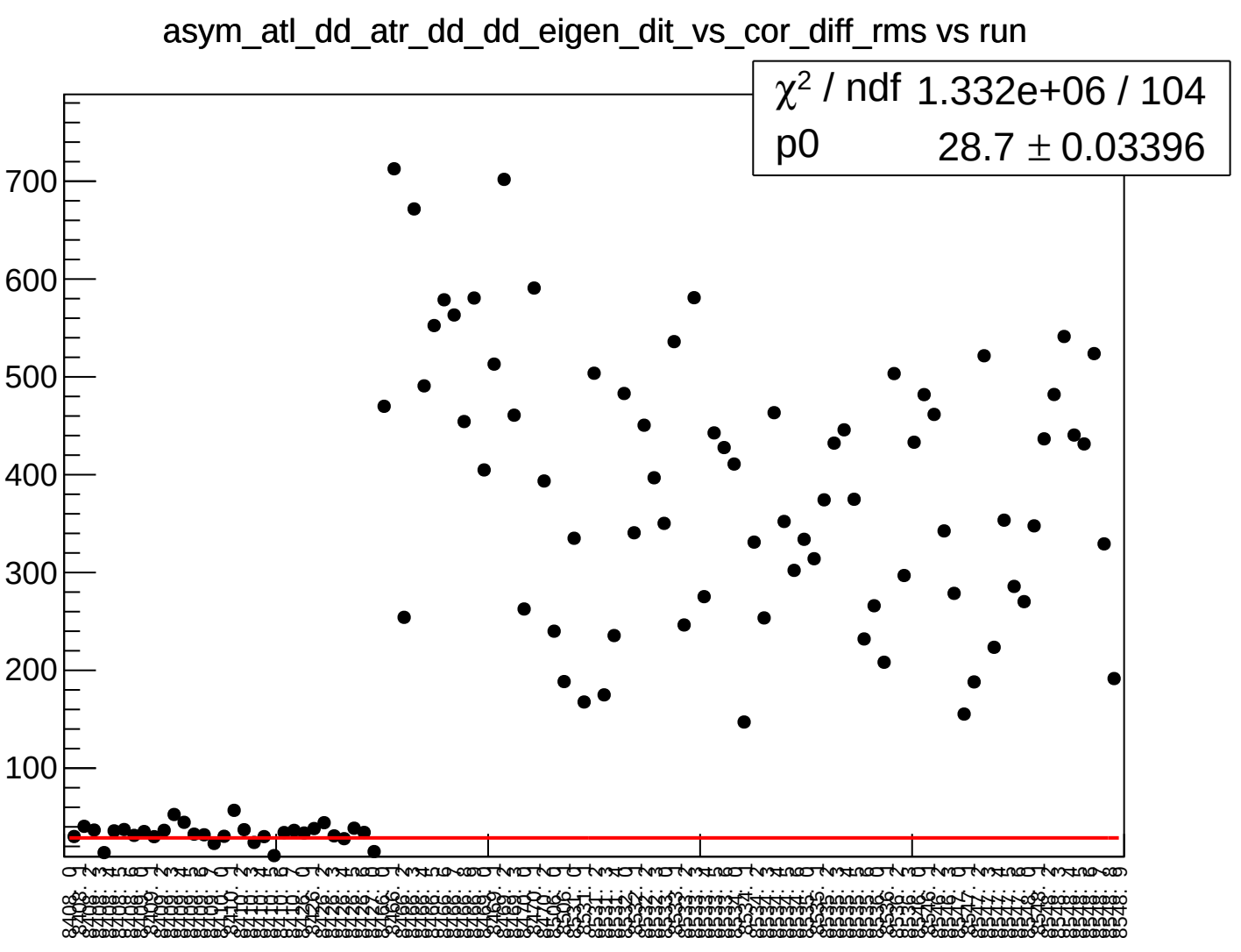

asym_atl_dd_atr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.332e+06 / 104
p0 28.69 ± 0.03395
700
600
500
400
300
200
100

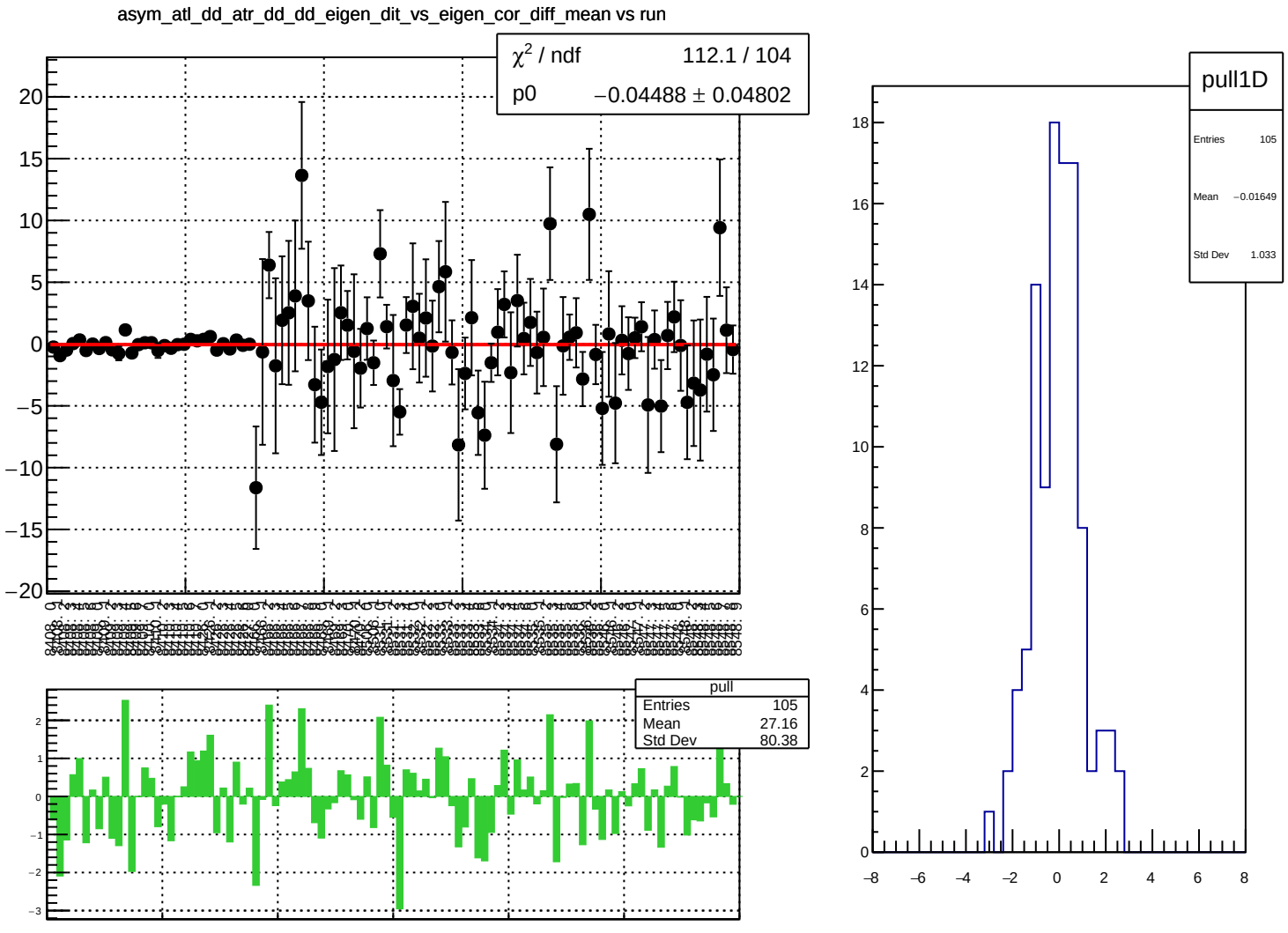

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 109.9 / 104
p0 1.729e−06 ± 2.703e−06
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 105
Mean 60.33
Std Dev 26.12
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

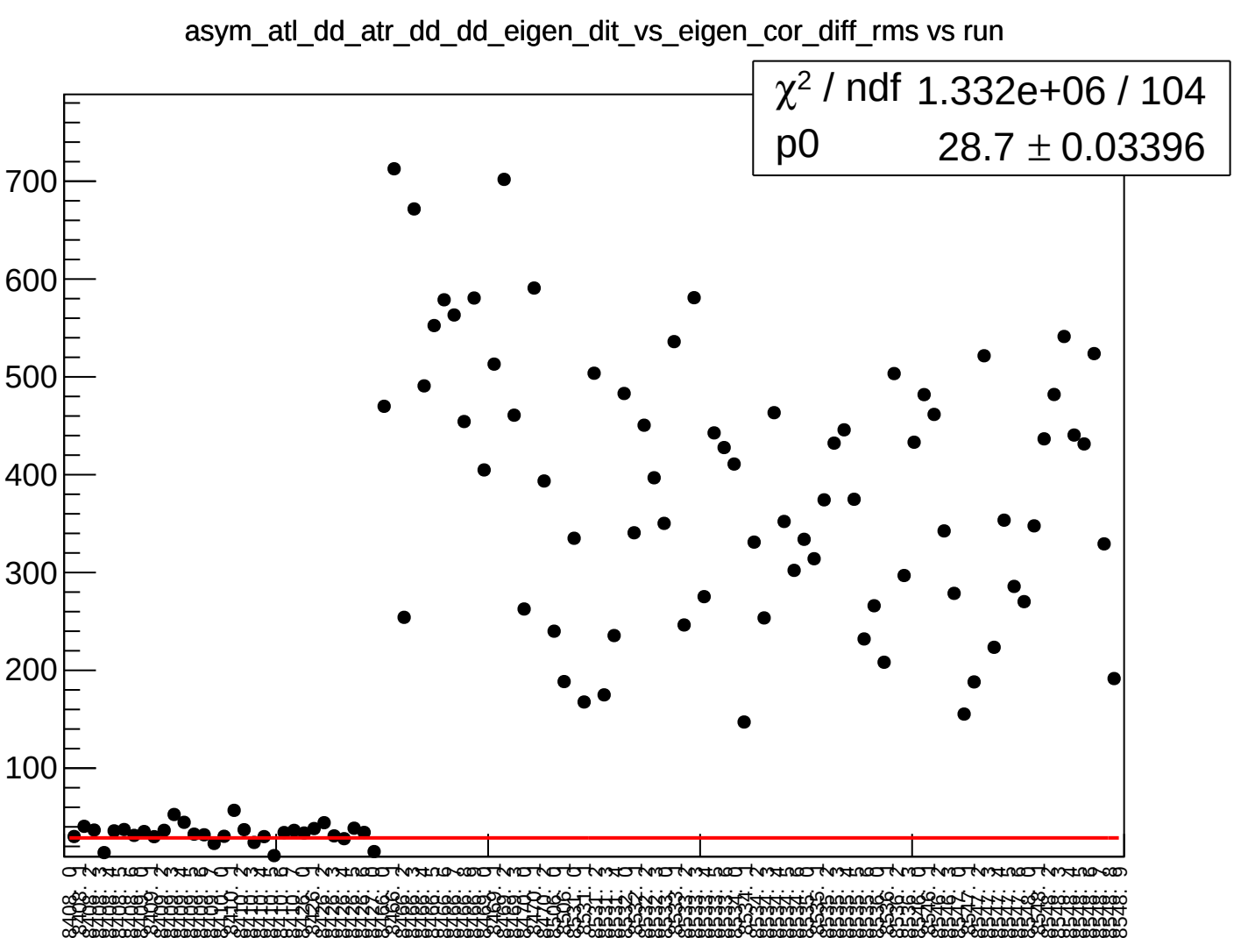

pull1D
Entries 105
Mean −0.07968
Std Dev 1.02
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

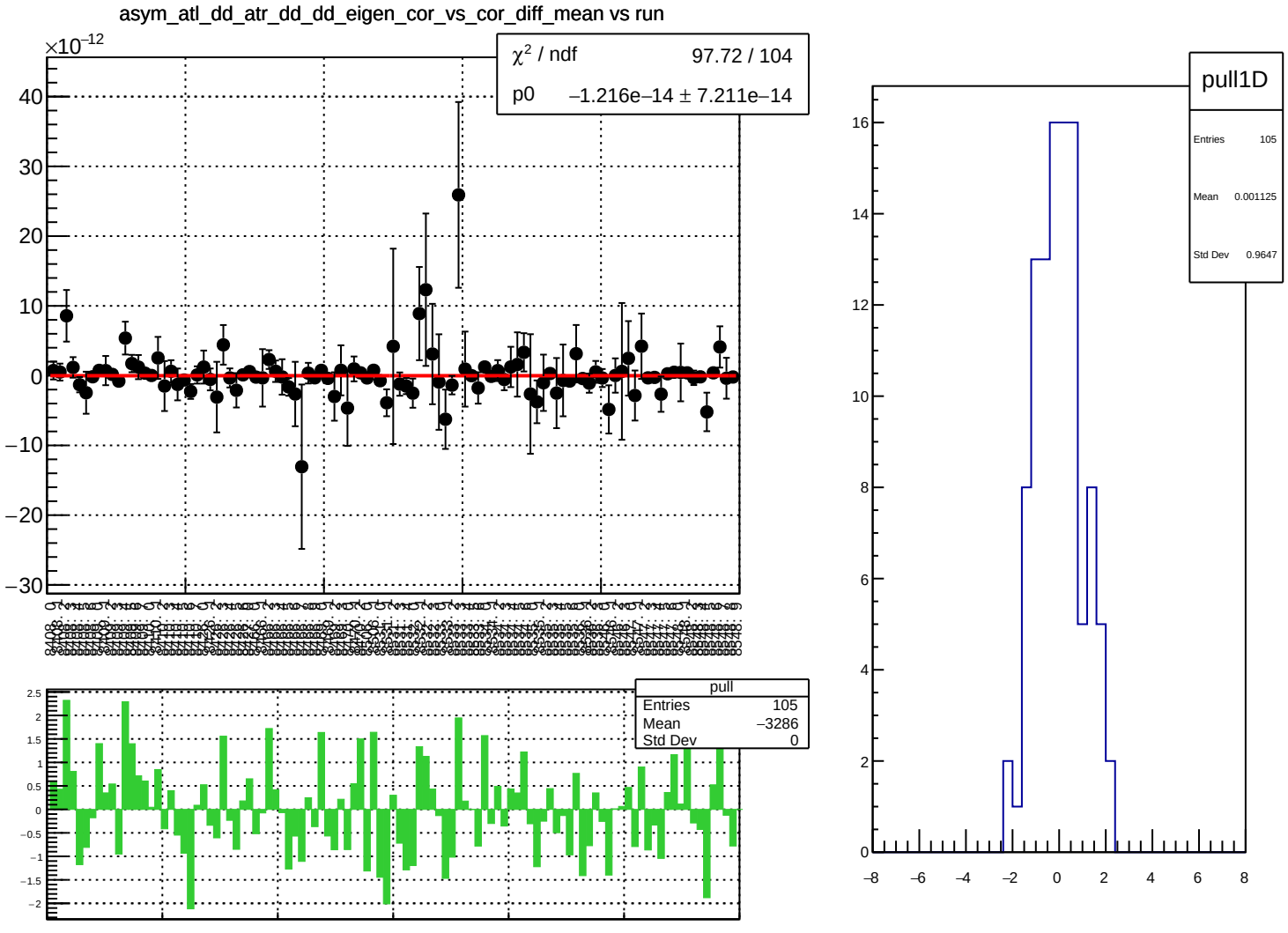

asym_atl_dd_atr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.076e+05 / 104
p0 0.002127 ± 1.912e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

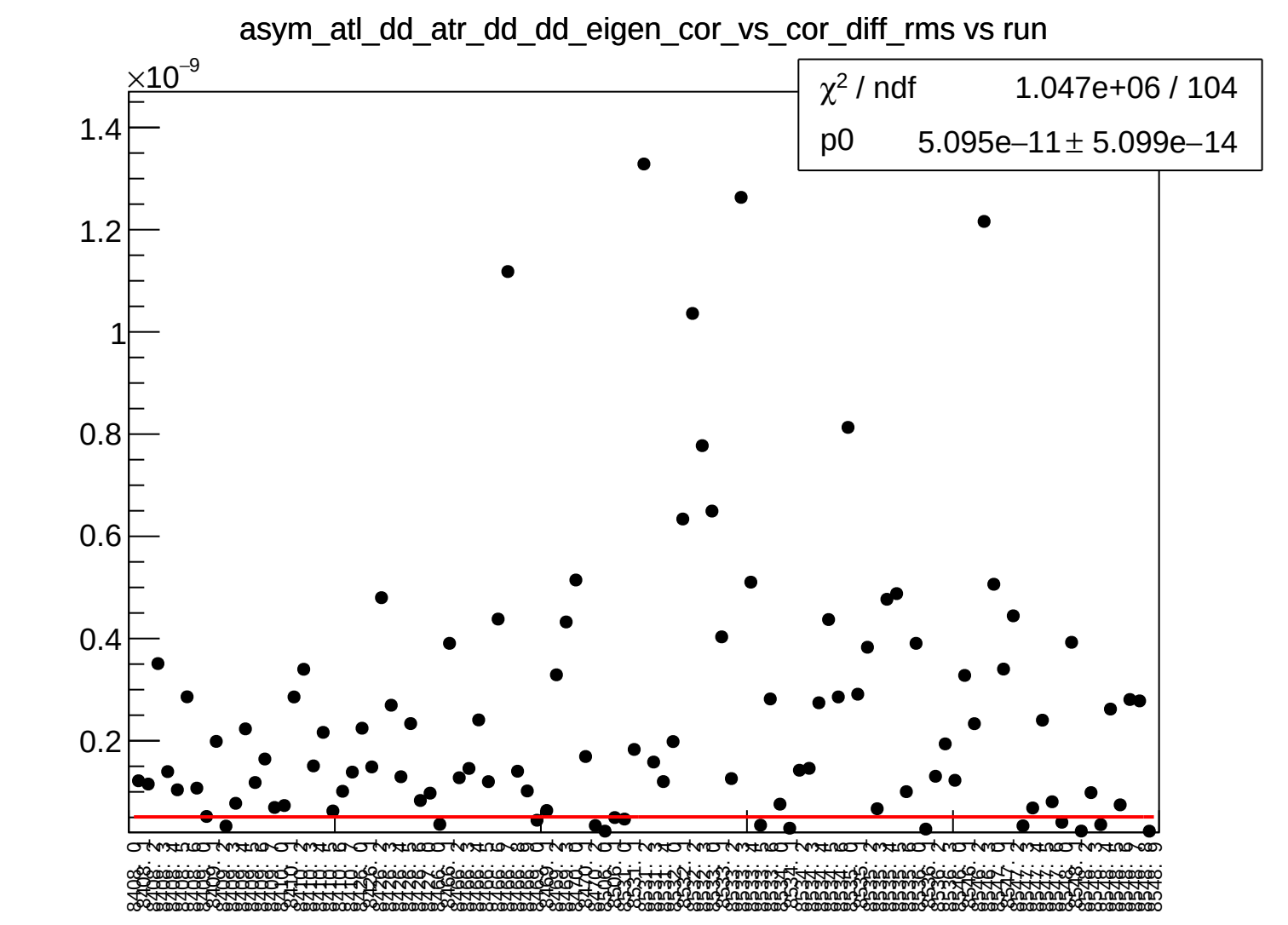

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 112.1 / 104
p0 −0.04488 ± 0.04802
pull
Entries 105
Mean 27.16
Std Dev 80.38
pull1D
Entries 105
Mean −0.01649
Std Dev 1.033

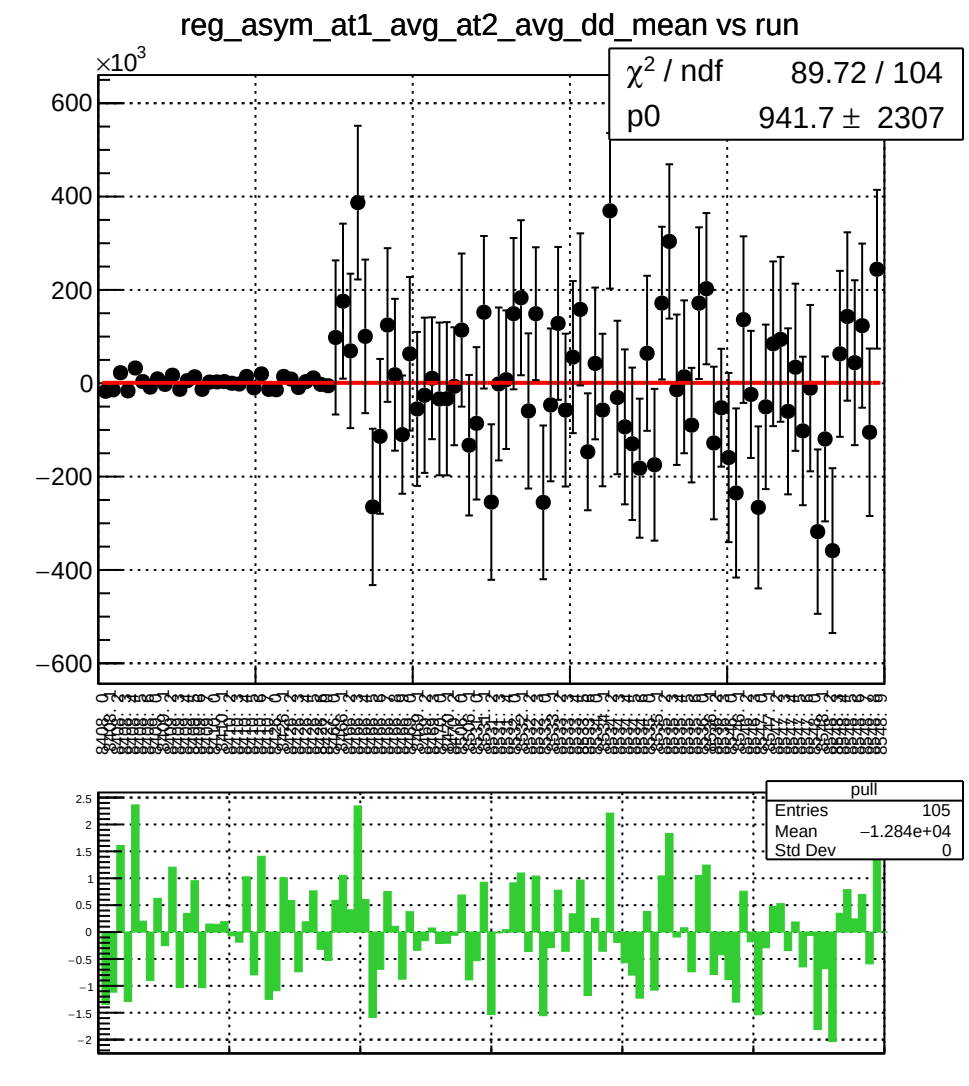

asym_atl_dd_atr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.332e+06 / 104
p0 28.7 ± 0.03396
700
600
500
400
300
200
100

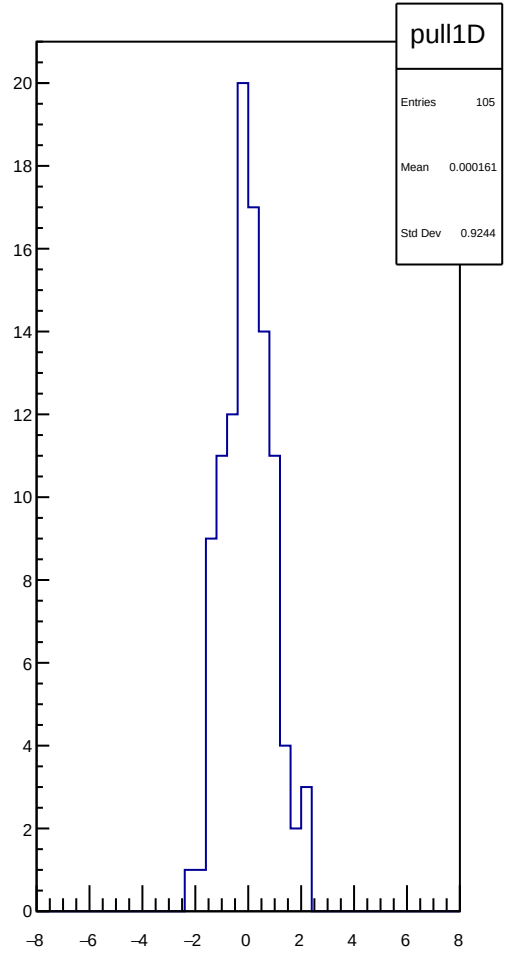

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 112.1 / 104
p0 −0.04488 ± 0.04802
pull
Entries 105
Mean 27.16
Std Dev 80.38
pull1D
Entries 105
Mean −0.01649
Std Dev 1.033

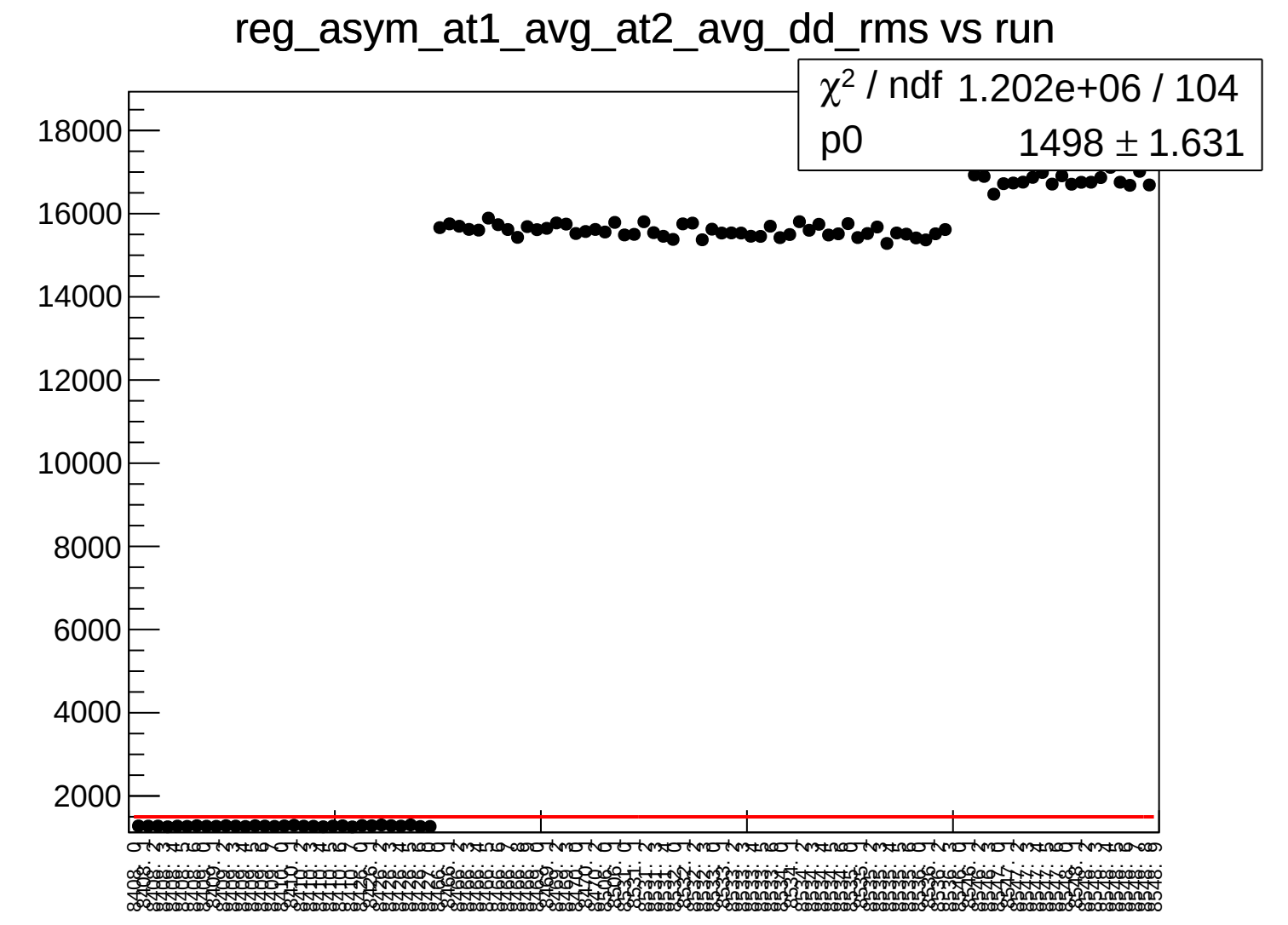

asym_atl_dd_atr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.332e+06 / 104
p0 28.7 ± 0.03396
700
600
500
400
300
200
100

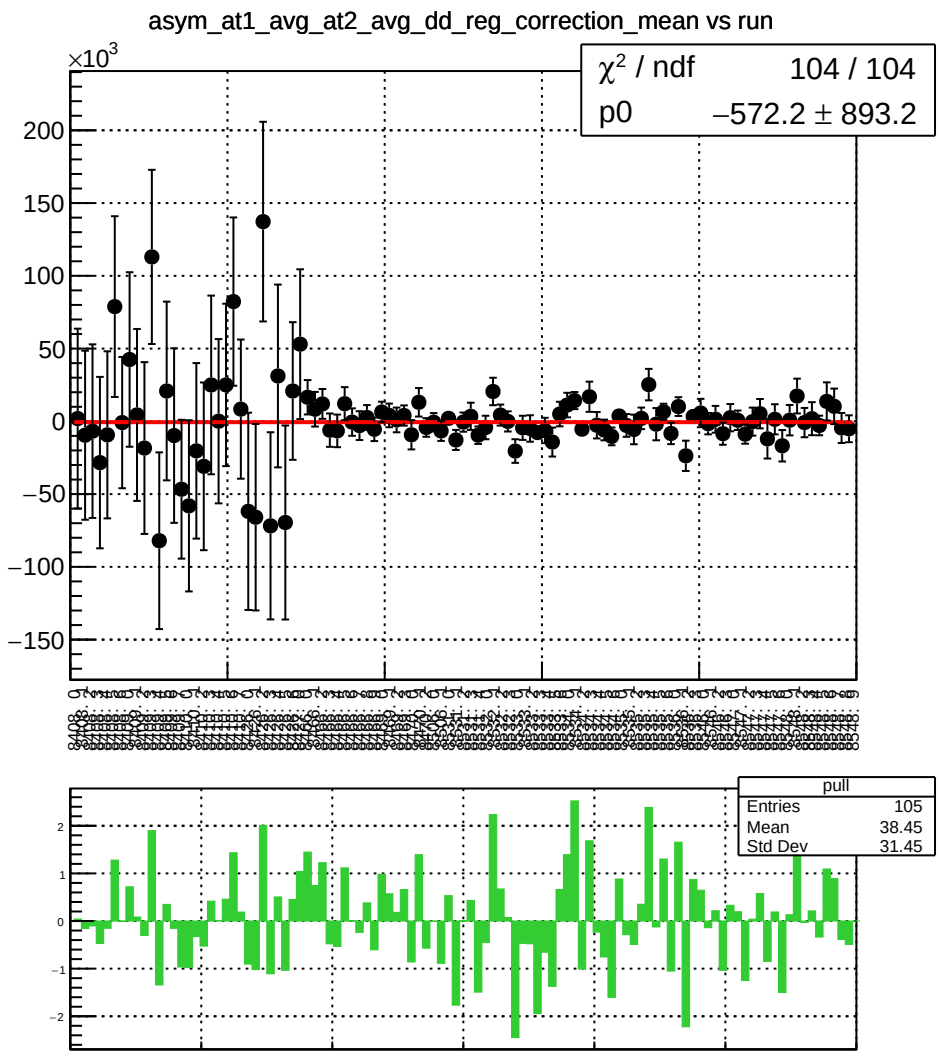

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 97.72 / 104
p0 −1.216e−14 ± 7.211e−14
pull
Entries 105
Mean −3286
Std Dev 0
pull1D
Entries 105
Mean 0.001125
Std Dev 0.9647

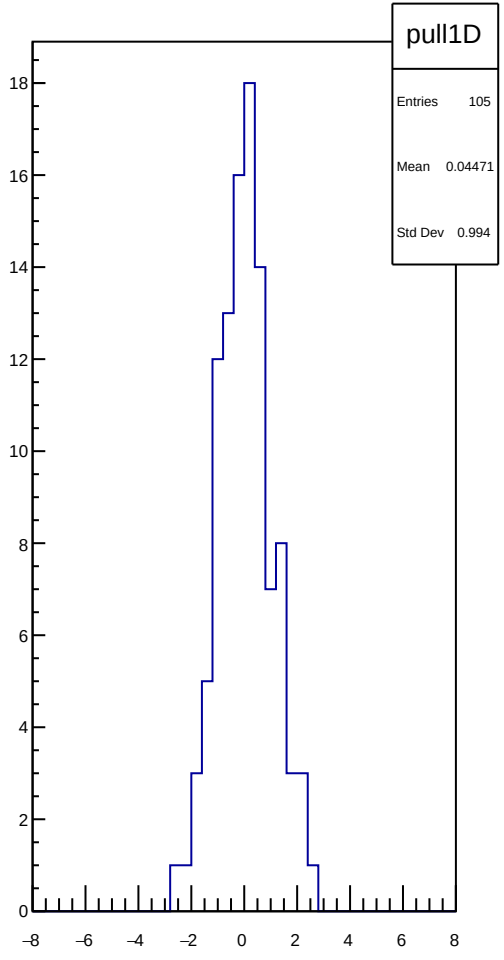

asym_atl_dd_atr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.047e+06 / 104
p0 5.095e−11 ± 5.099e−14
1.4
1.2
1
0.8
0.6
0.4
0.2

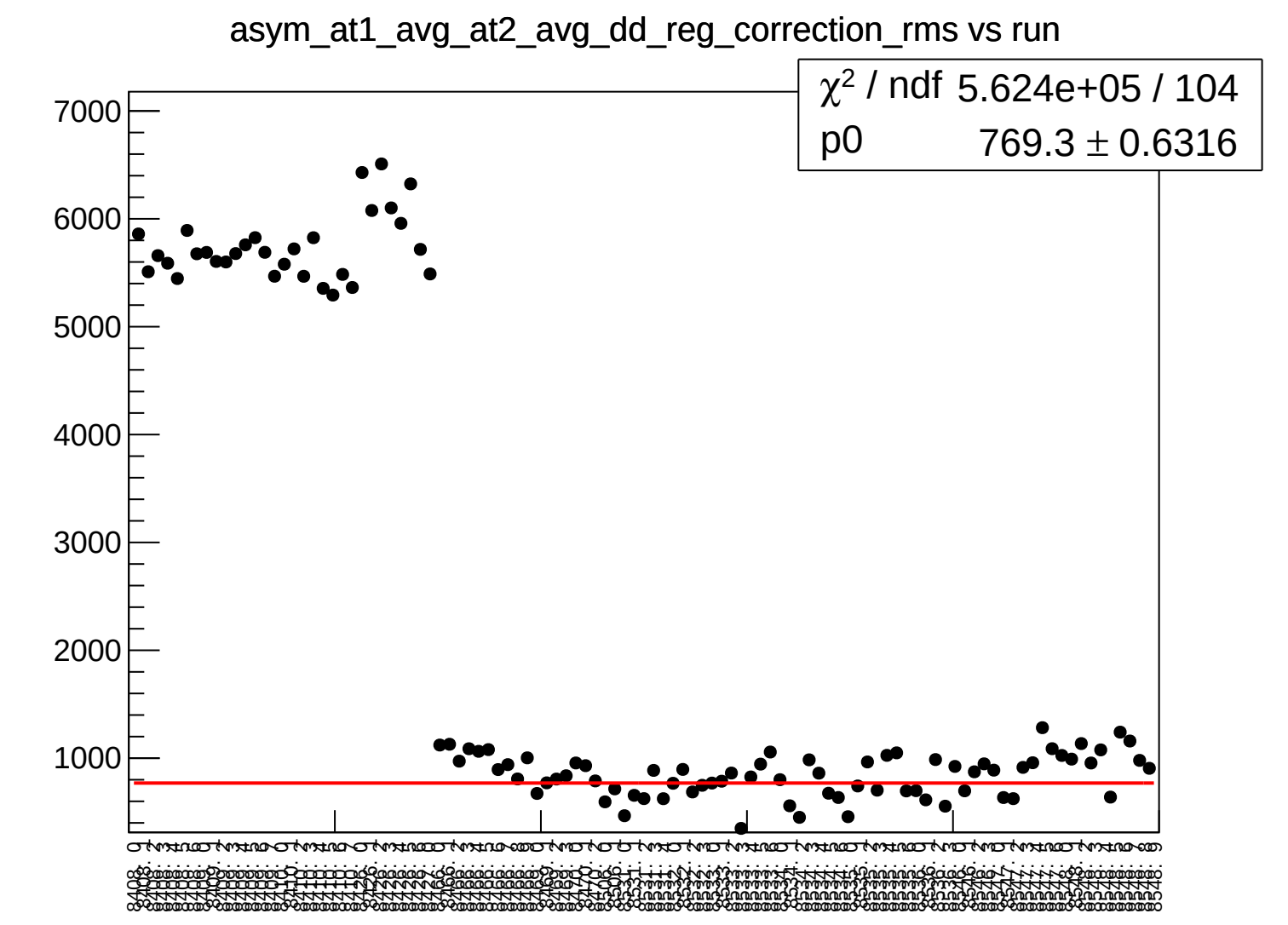

reg_asym_at1_avg_at2_avg_dd_mean vs run
×10^3
χ^2 / ndf 89.72 / 104
p0 941.7 ± 2307
pull
Entries 105
Mean −1.284e+04
Std Dev 0

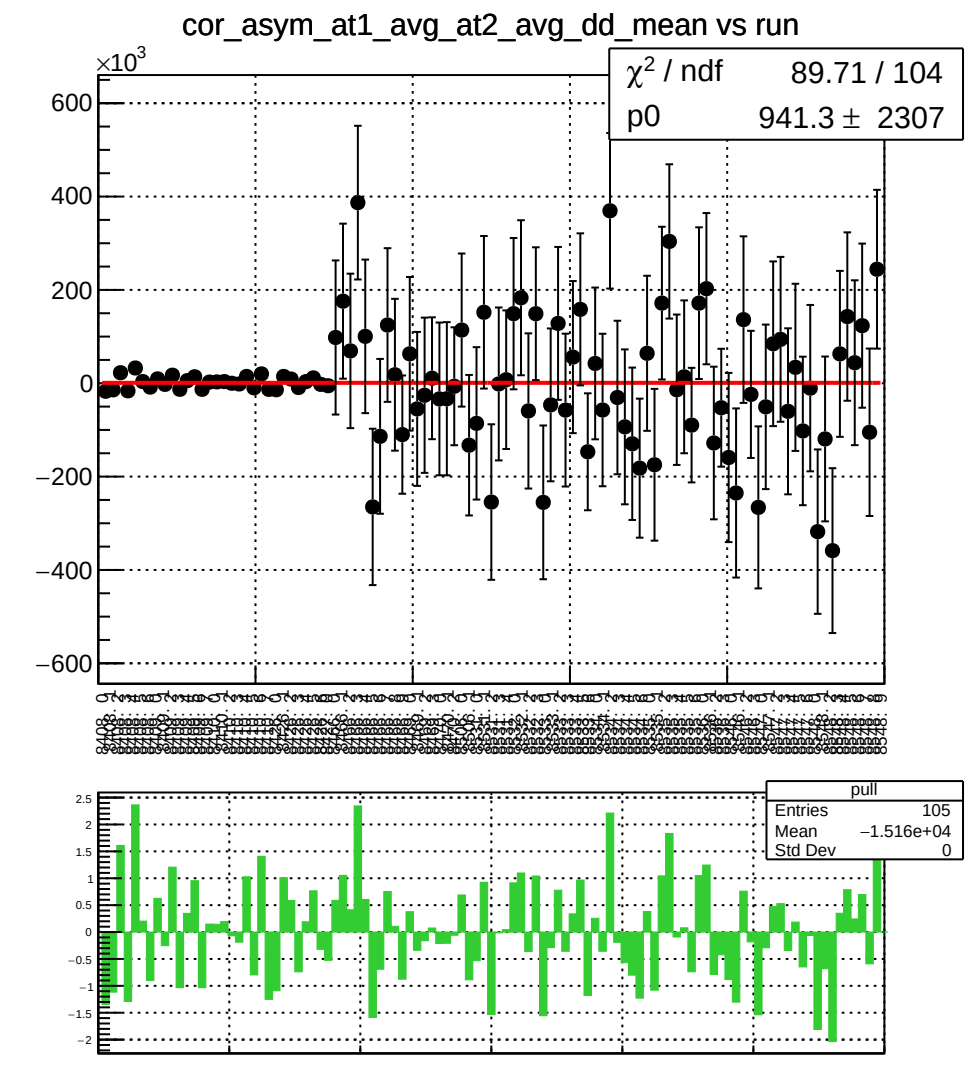

pull1D
Entries 105
Mean 0.000161
Std Dev 0.9244

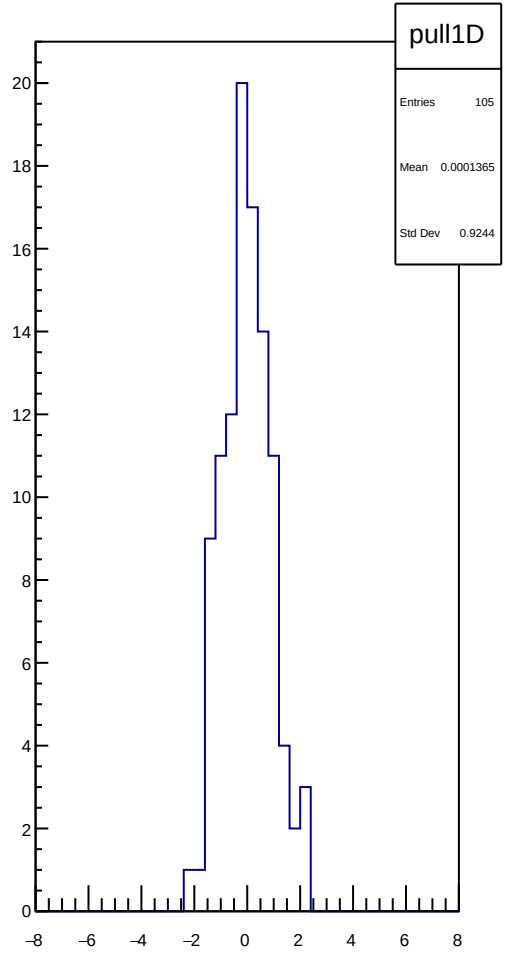

reg_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 1.202e+06 / 104
p0 1498 ± 1.631
18000
16000
14000
12000
10000
8000
6000
4000
2000

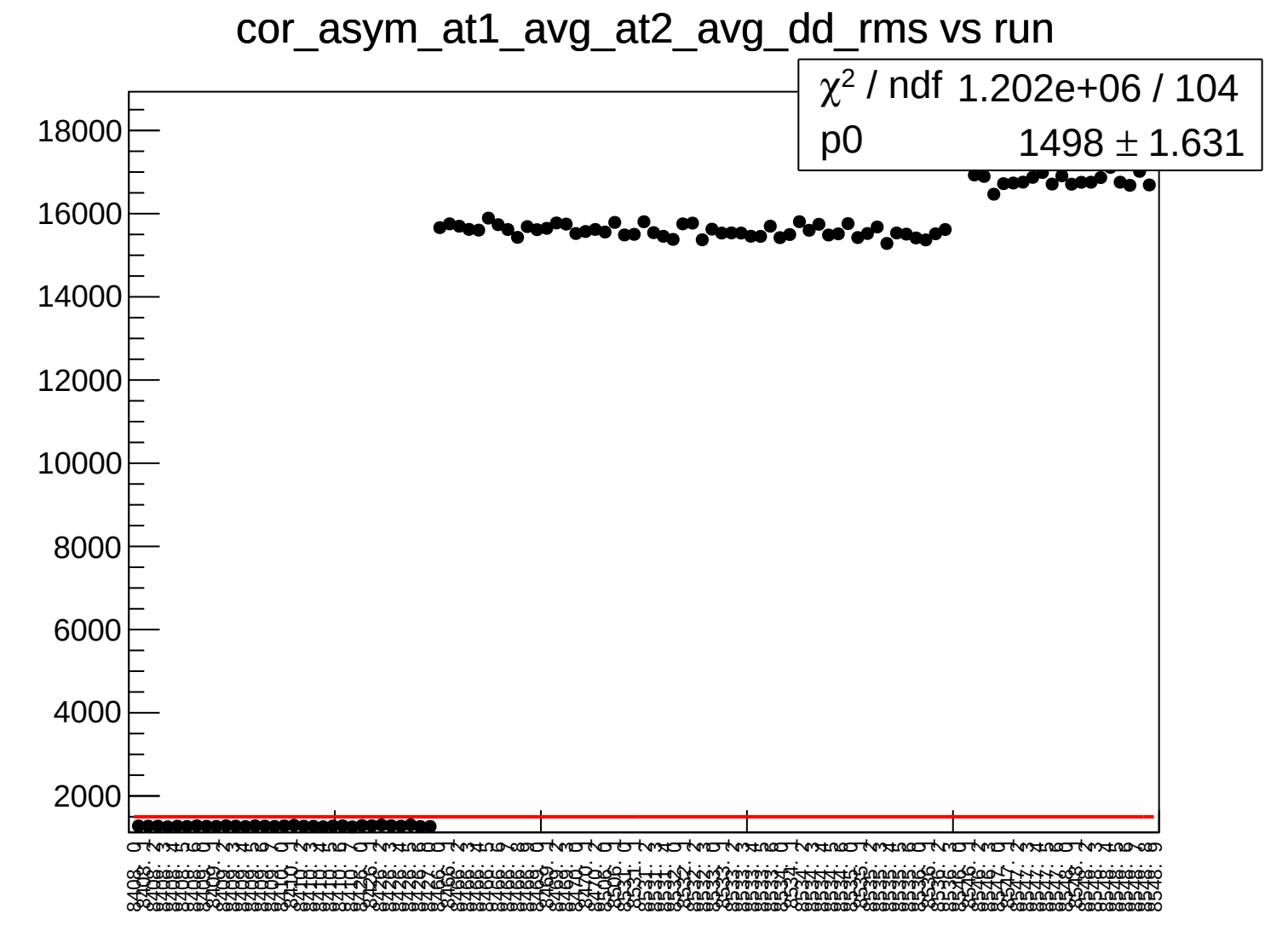

asym_at1_avg_at2_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 104 / 104
p0 −572.2 ± 893.2
200
150
100
50
0
−50
−100
−150
pull
Entries 105
Mean 38.45
Std Dev 31.45
2
1
0
−1
−2

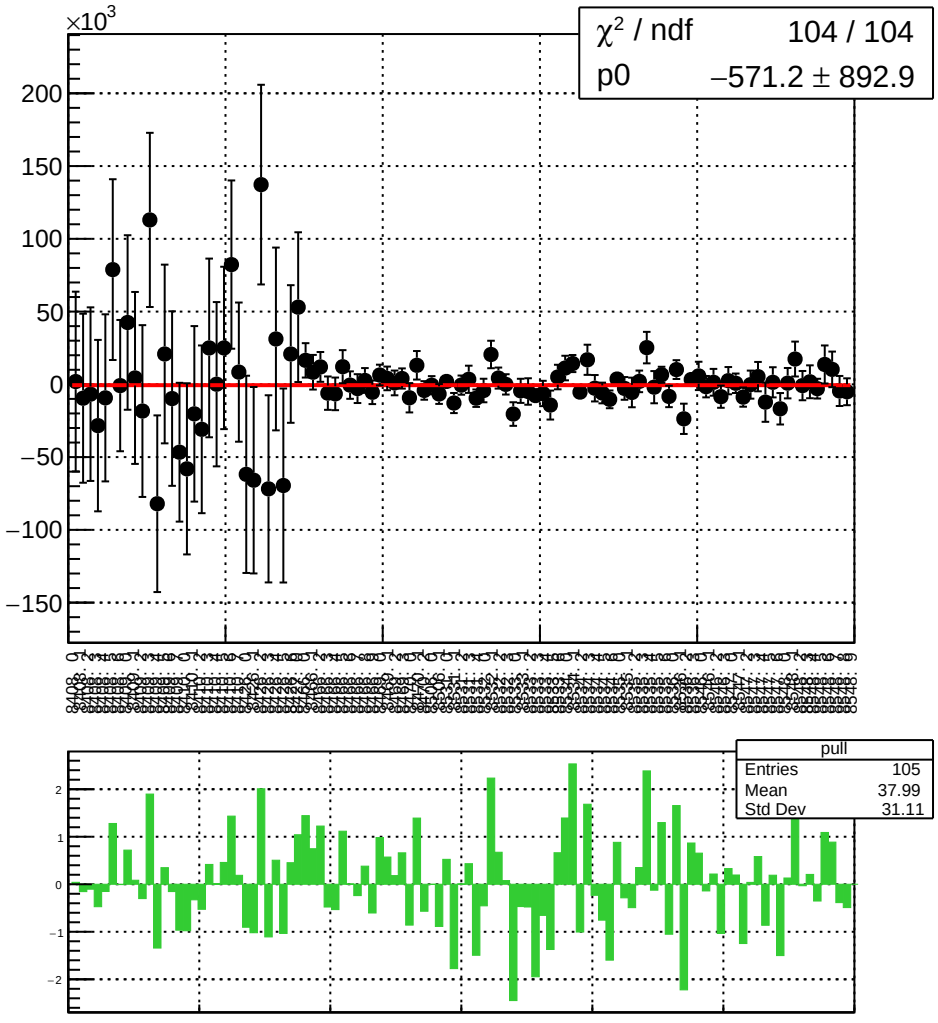

pull1D
Entries 105
Mean 0.04471
Std Dev 0.994
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

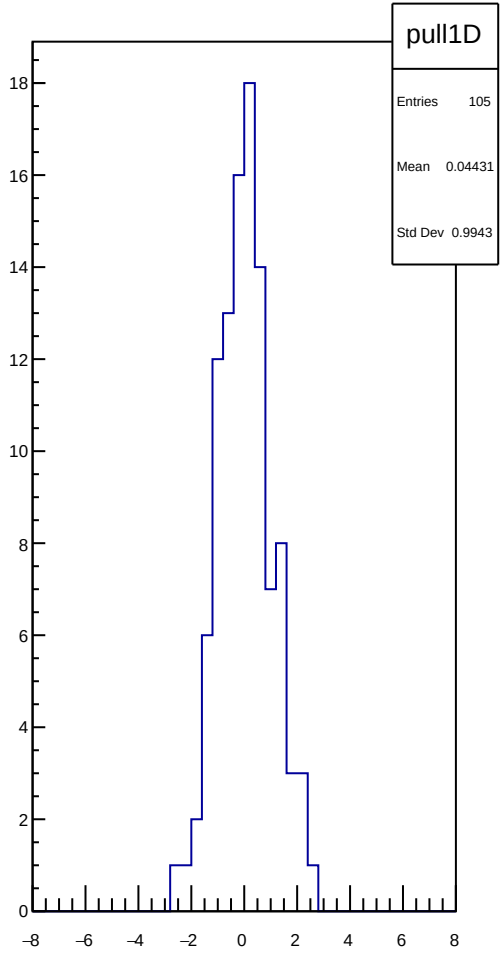

asym_at1_avg_at2_avg_dd_reg_correction_rms vs run
χ² / ndf 5.624e+05 / 104
p0 769.3 ± 0.6316
7000
6000
5000
4000
3000
2000
1000

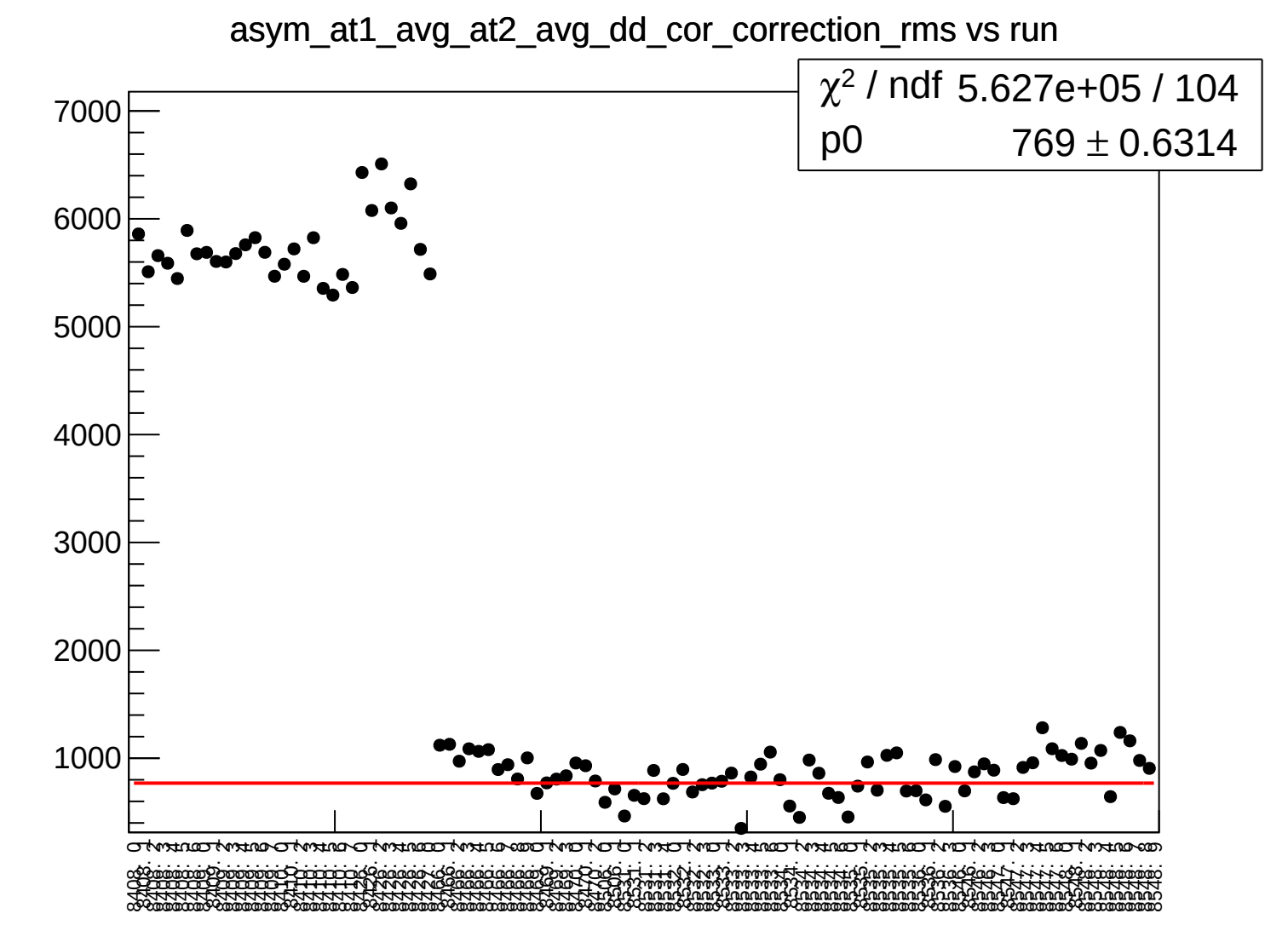

cor_asym_at1_avg_at2_avg_dd_mean vs run
×10^3
χ^2 / ndf 89.71 / 104
p0 941.3 ± 2307
pull
Entries 105
Mean −1.516e+04
Std Dev 0

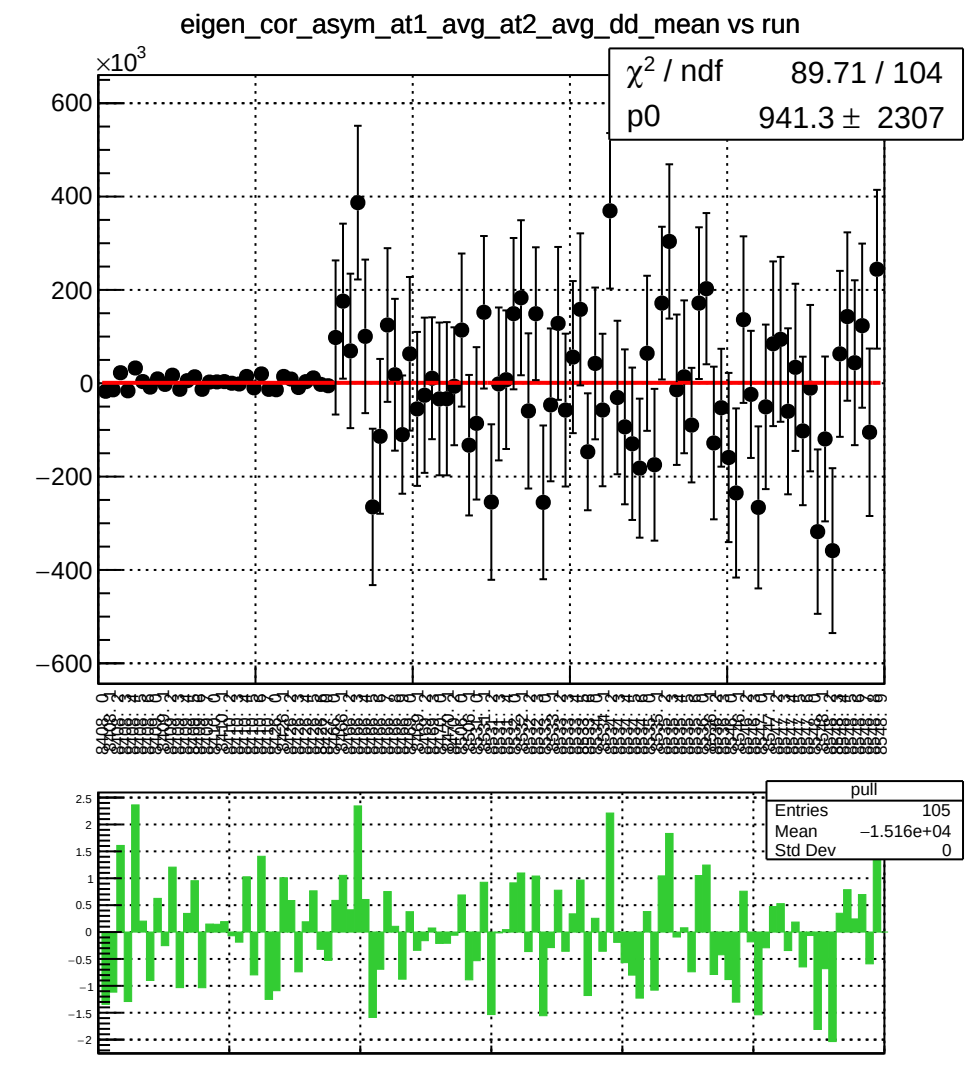

pull1D
Entries 105
Mean 0.0001365
Std Dev 0.9244

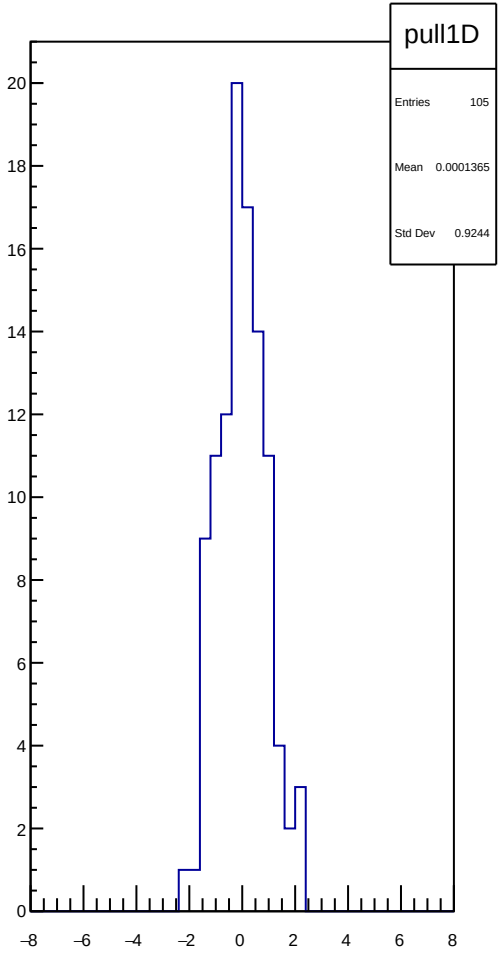

cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 1.202e+06 / 104
p0 1498 ± 1.631
18000
16000
14000
12000
10000
8000
6000
4000
2000

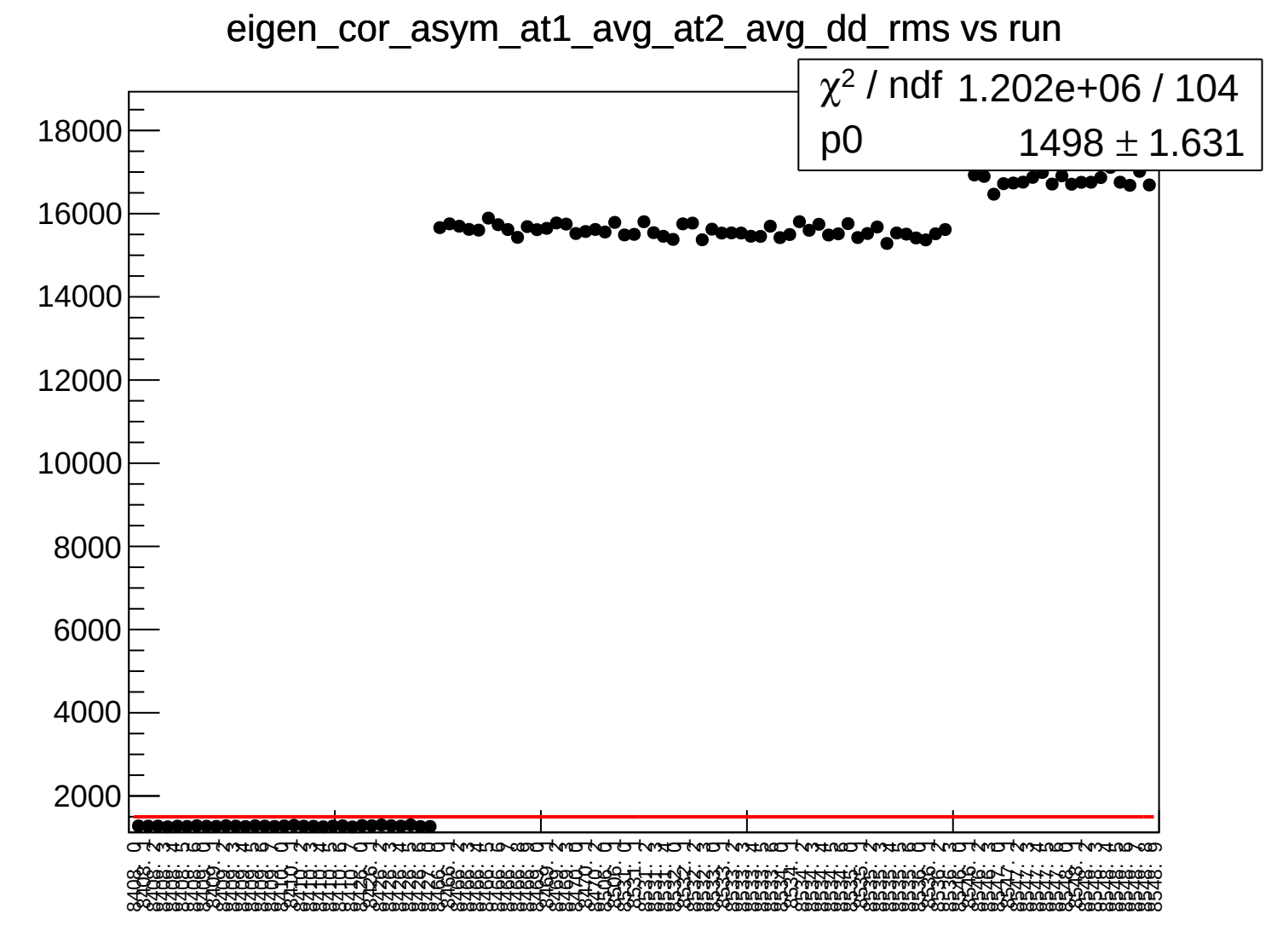

asym_at1_avg_at2_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 104 / 104
p0 −571.2 ± 892.9
200
150
100
50
0
−50
−100
−150
pull
Entries 105
Mean 37.99
Std Dev 31.11
2
1
0
−1
−2

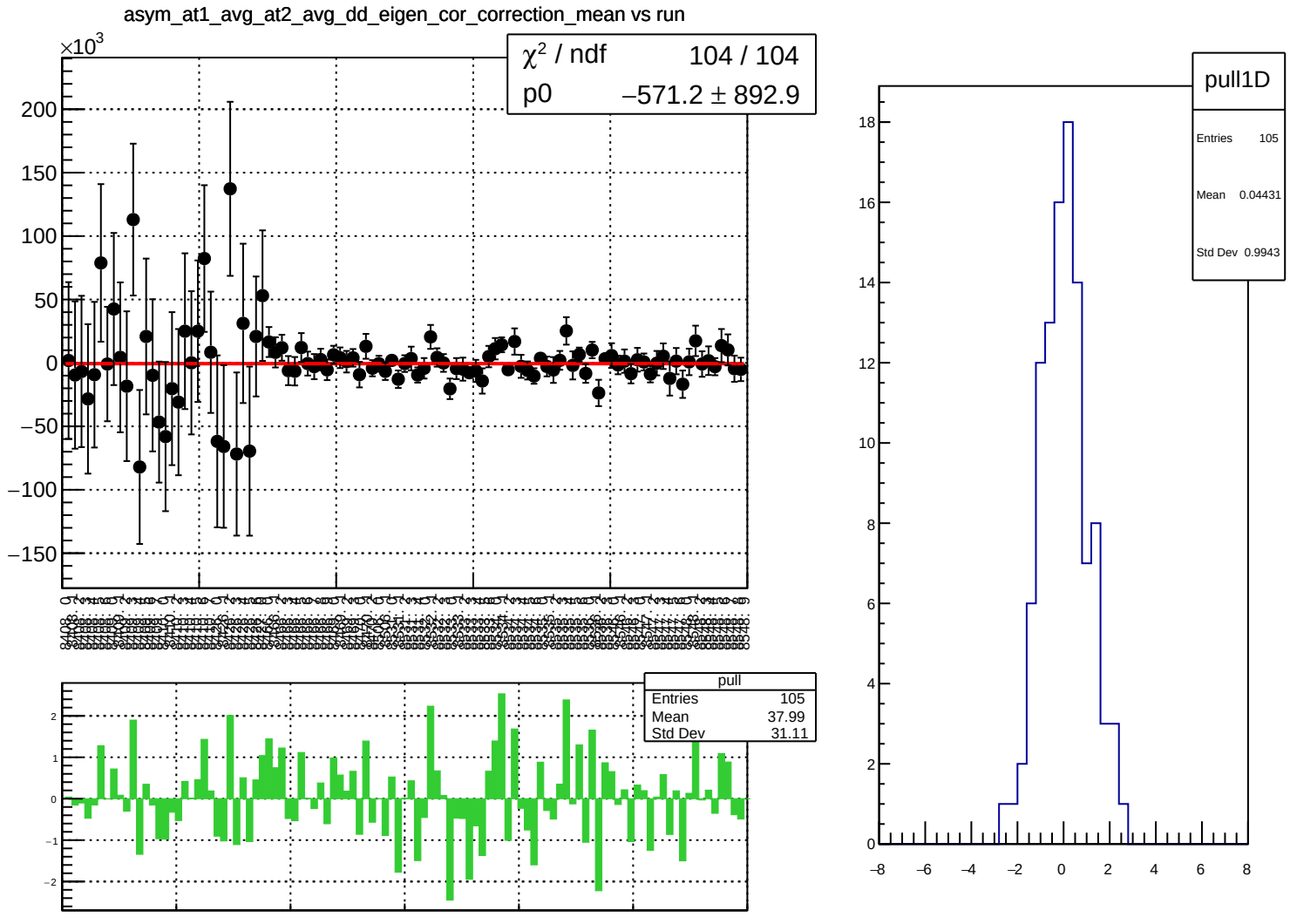

pull1D
Entries 105
Mean 0.04431
Std Dev 0.9943
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

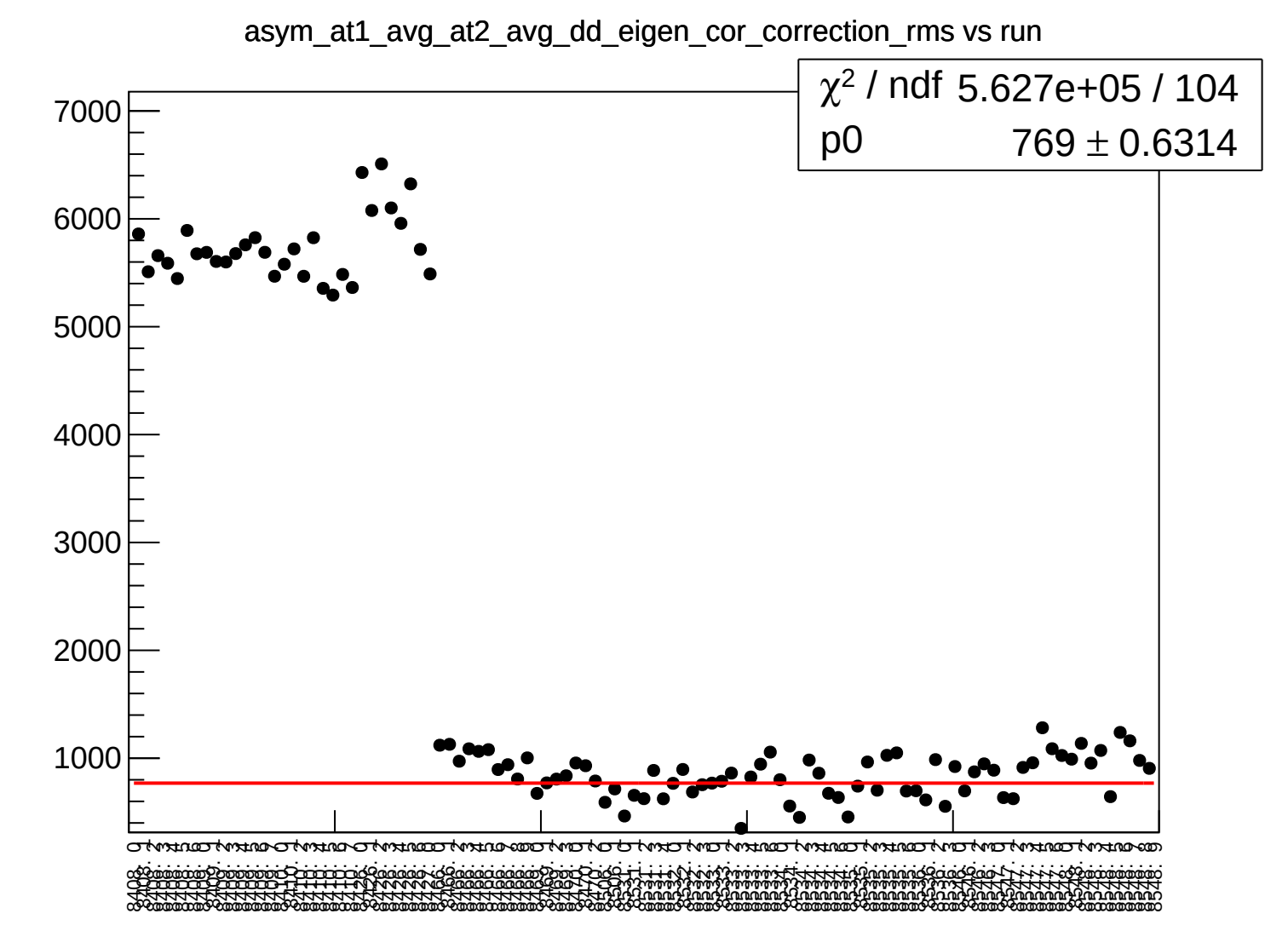

asym_at1_avg_at2_avg_dd_cor_correction_rms vs run
χ^2 / ndf 5.627e+05 / 104
p0 769 ± 0.6314
7000
6000
5000
4000
3000
2000
1000

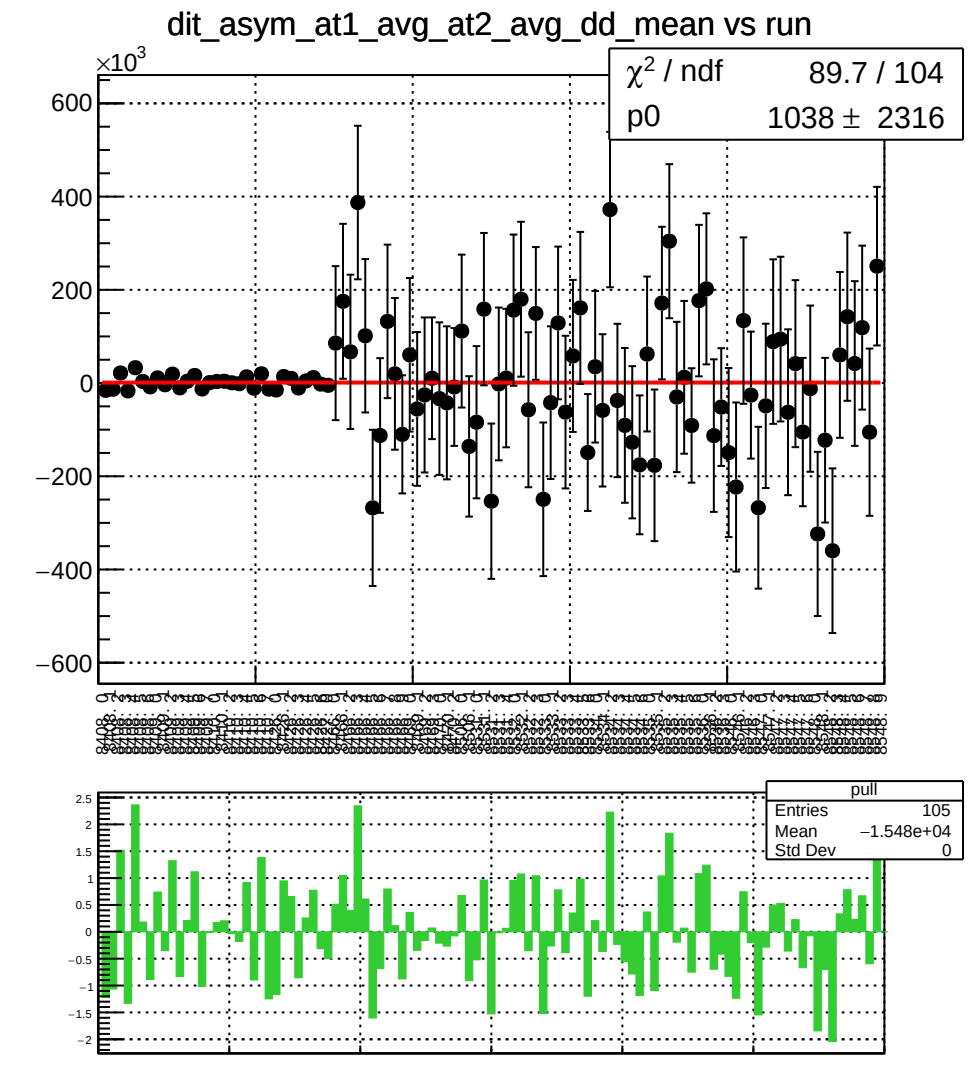

eigen_cor_asym_at1_avg_at2_avg_dd_mean vs run
×10^3
600
400
200
0
−200
−400
−600
χ² / ndf 89.71 / 104
p0 941.3 ± 2307
pull
Entries 105
Mean −1.516e+04
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

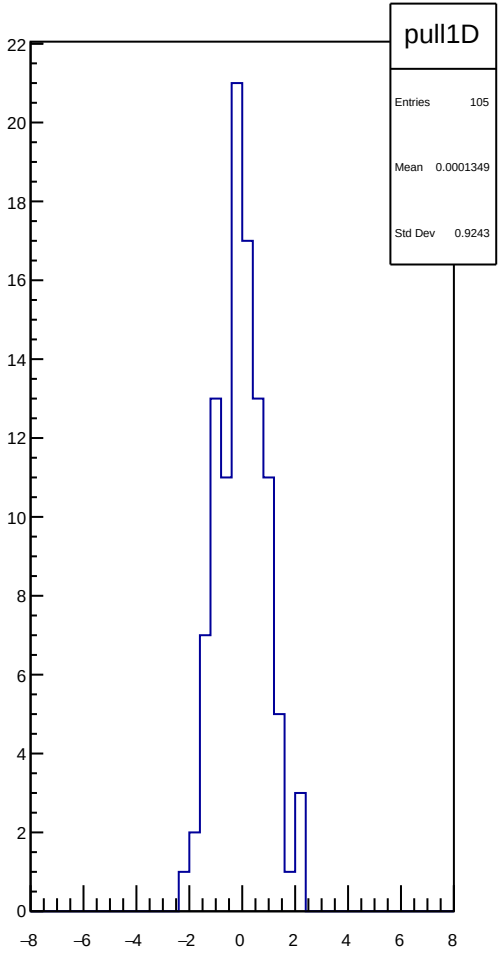

pull1D
Entries 105
Mean 0.0001365
Std Dev 0.9244
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

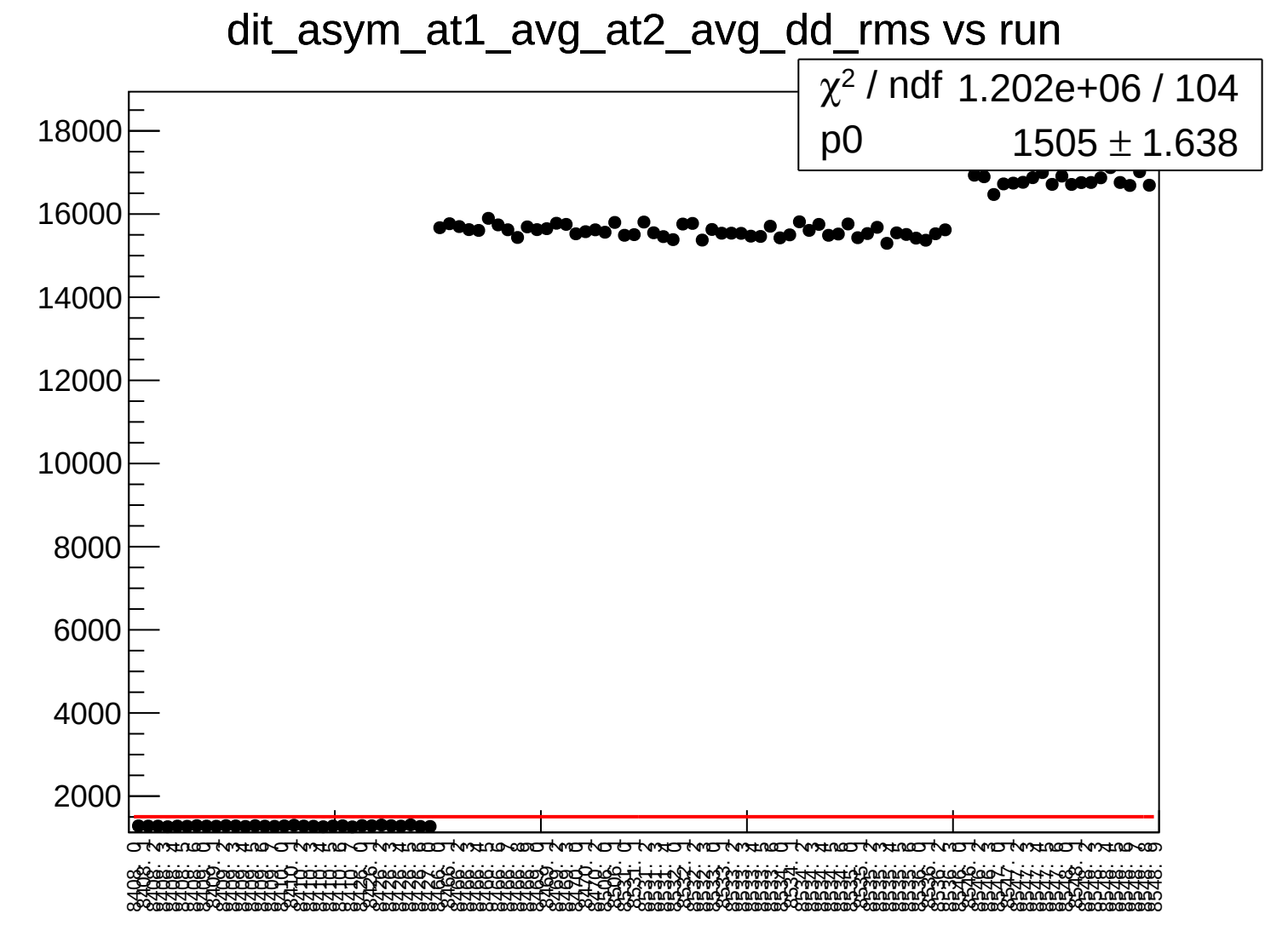

eigen_cor_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 1.202e+06 / 104
p0 1498 ± 1.631
18000
16000
14000
12000
10000
8000
6000
4000
2000

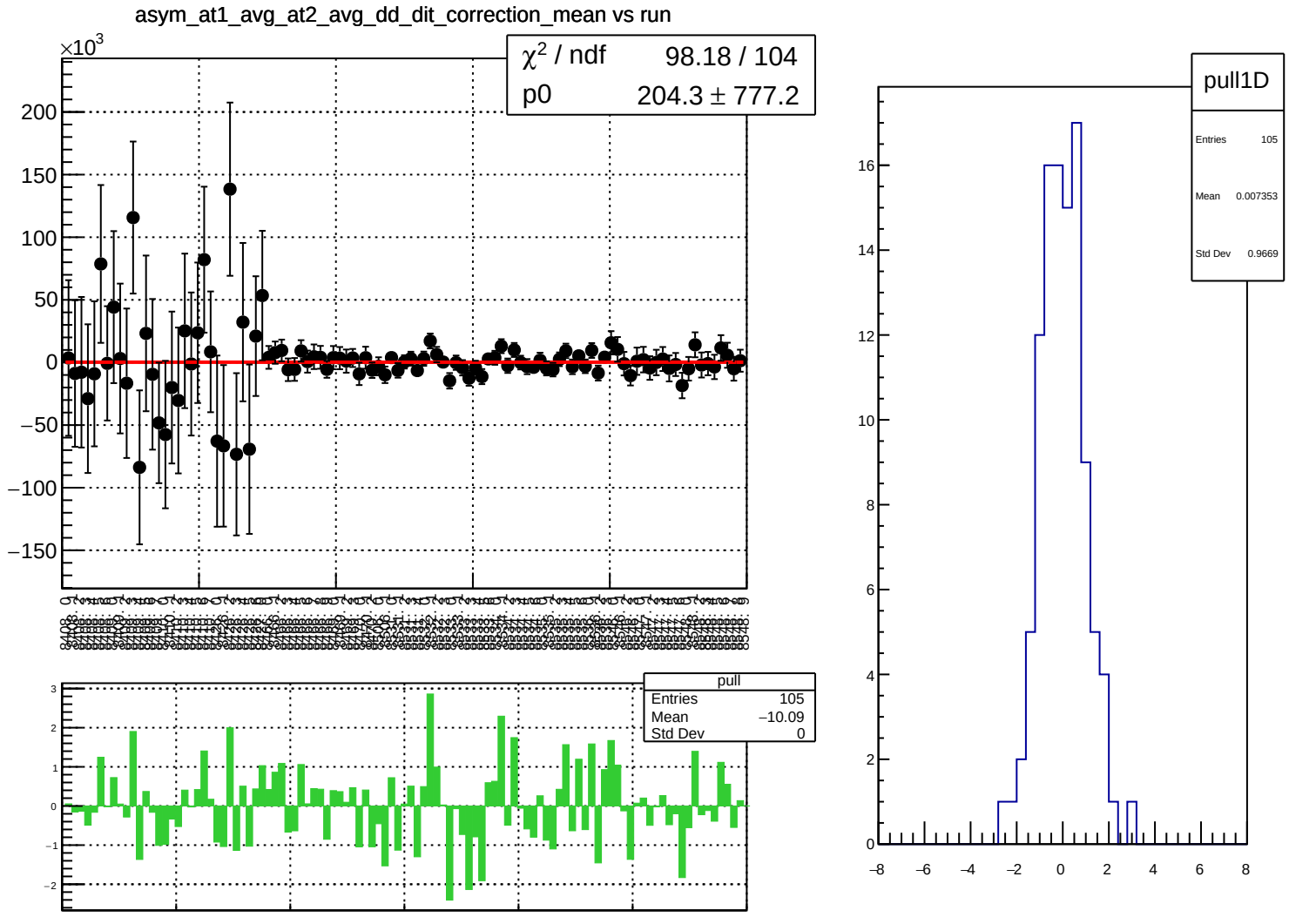

asym_at1_avg_at2_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 104 / 104
p0 −571.2 ± 892.9
200
150
100
50
0
−50
−100
−150
pull
Entries 105
Mean 37.99
Std Dev 31.11
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.04431
Std Dev 0.9943
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

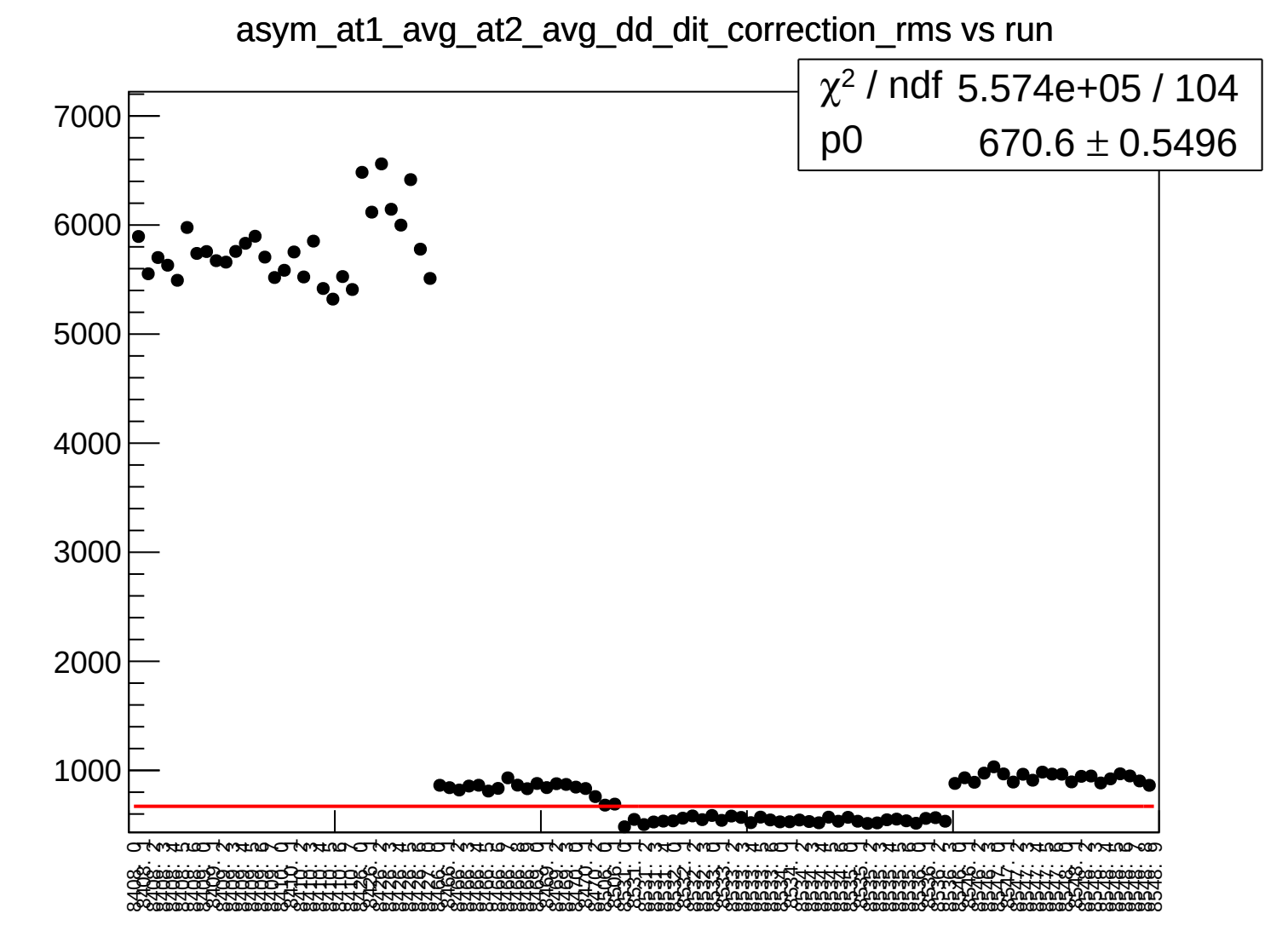

asym_at1_avg_at2_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 5.627e+05 / 104
p0 769 ± 0.6314
7000
6000
5000
4000
3000
2000
1000

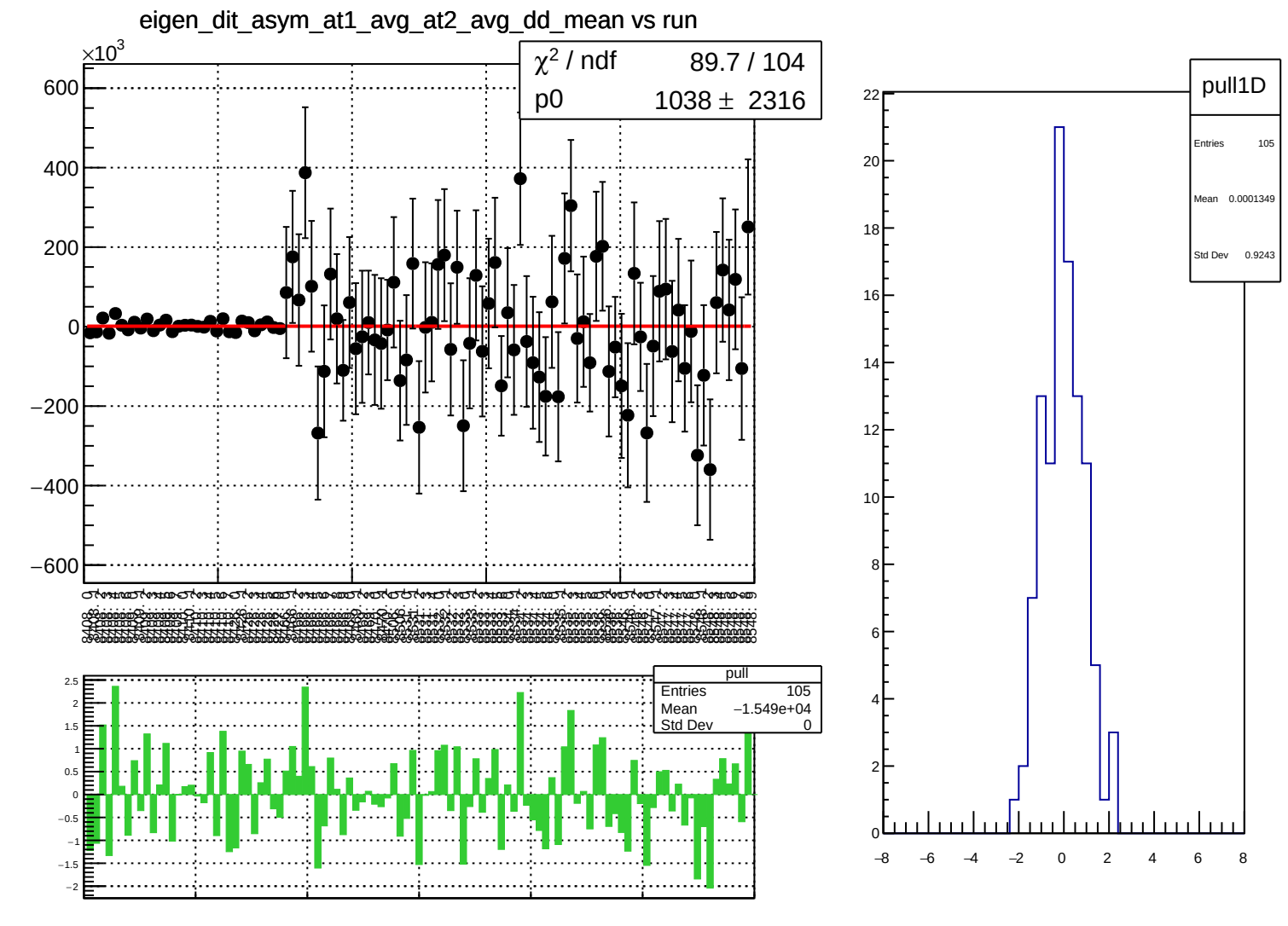

dit_asym_at1_avg_at2_avg_dd_mean vs run
×10^3
600
400
200
0
−200
−400
−600
χ² / ndf 89.7 / 104
p0 1038 ± 2316
pull
Entries 105
Mean −1.548e+04
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

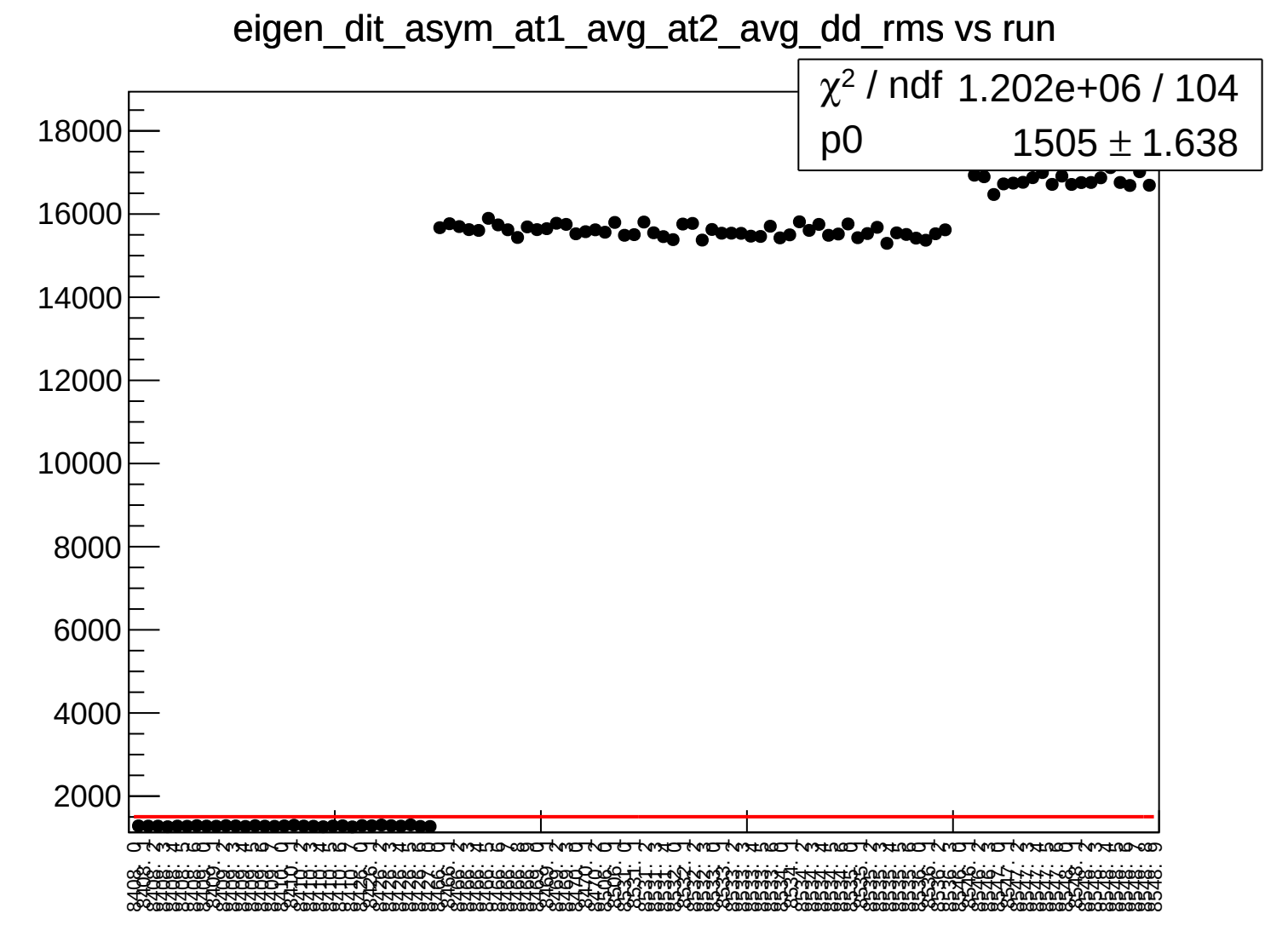

pull1D
Entries 105
Mean 0.0001349
Std Dev 0.9243
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

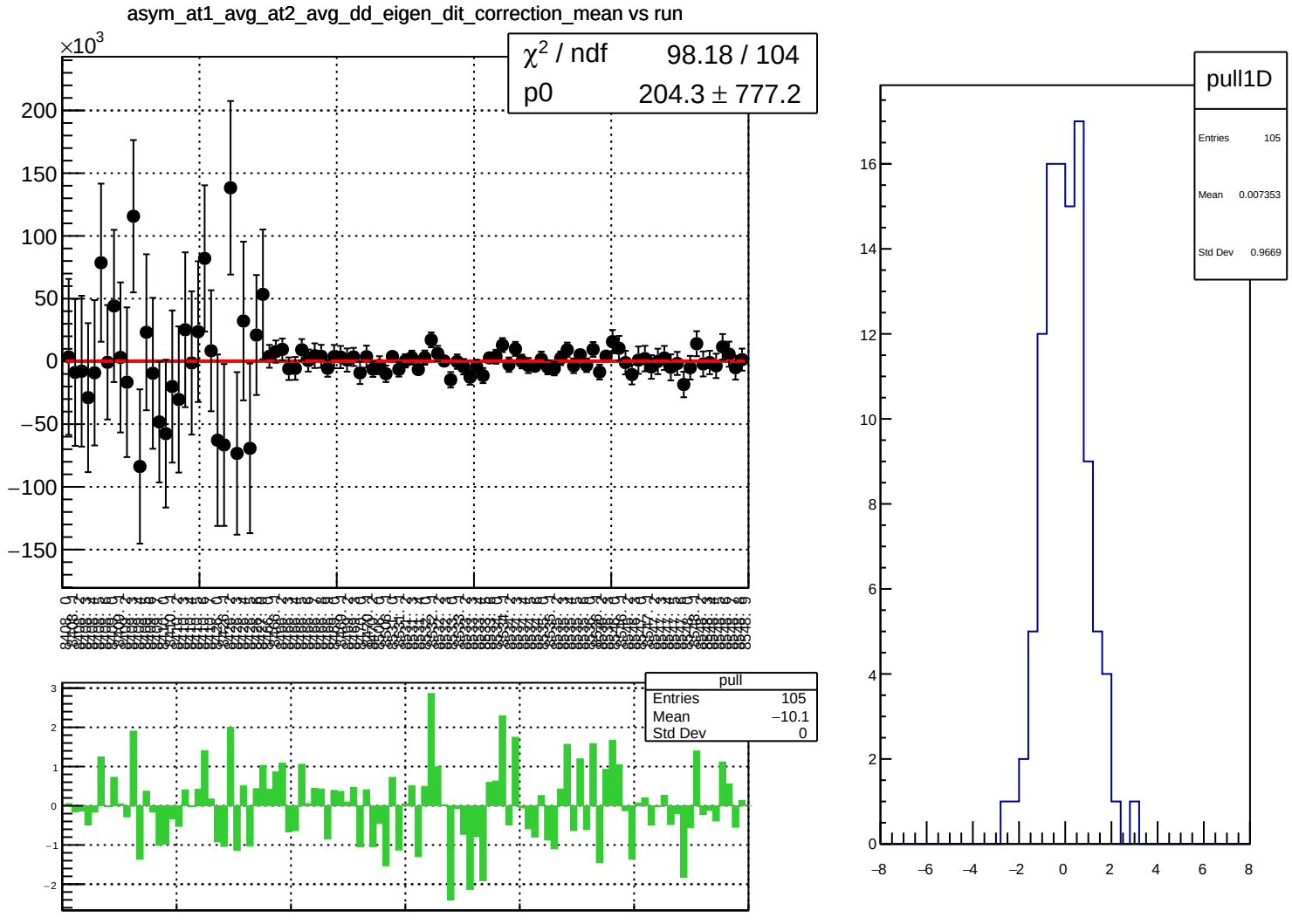

dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 1.202e+06 / 104
p0 1505 ± 1.638
18000
16000
14000
12000
10000
8000
6000
4000
2000

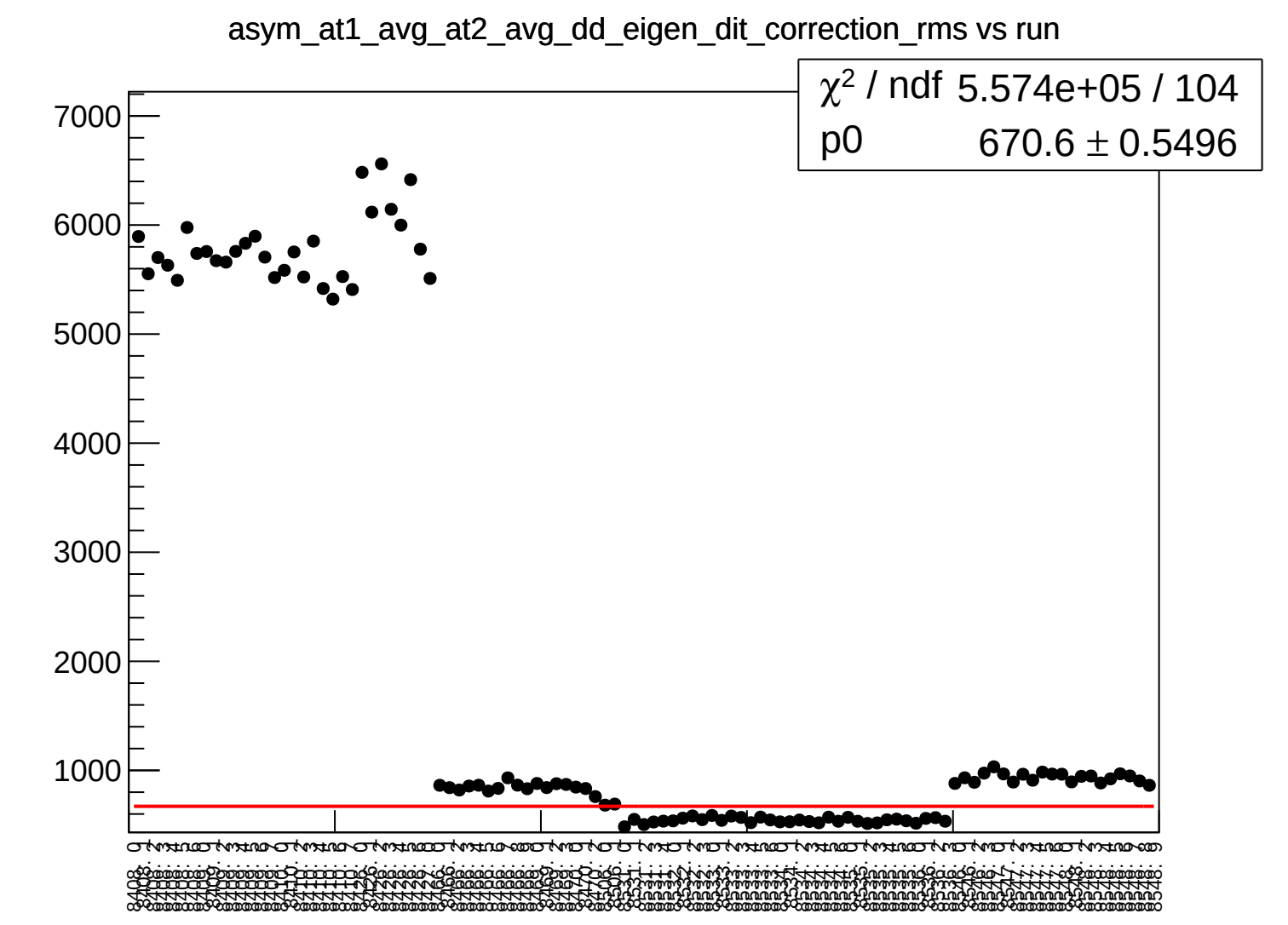

asym_at1_avg_at2_avg_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 98.18 / 104
p0 204.3 ± 777.2
200
150
100
50
0
−50
−100
−150
pull
Entries 105
Mean −10.09
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.007353
Std Dev 0.9669
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

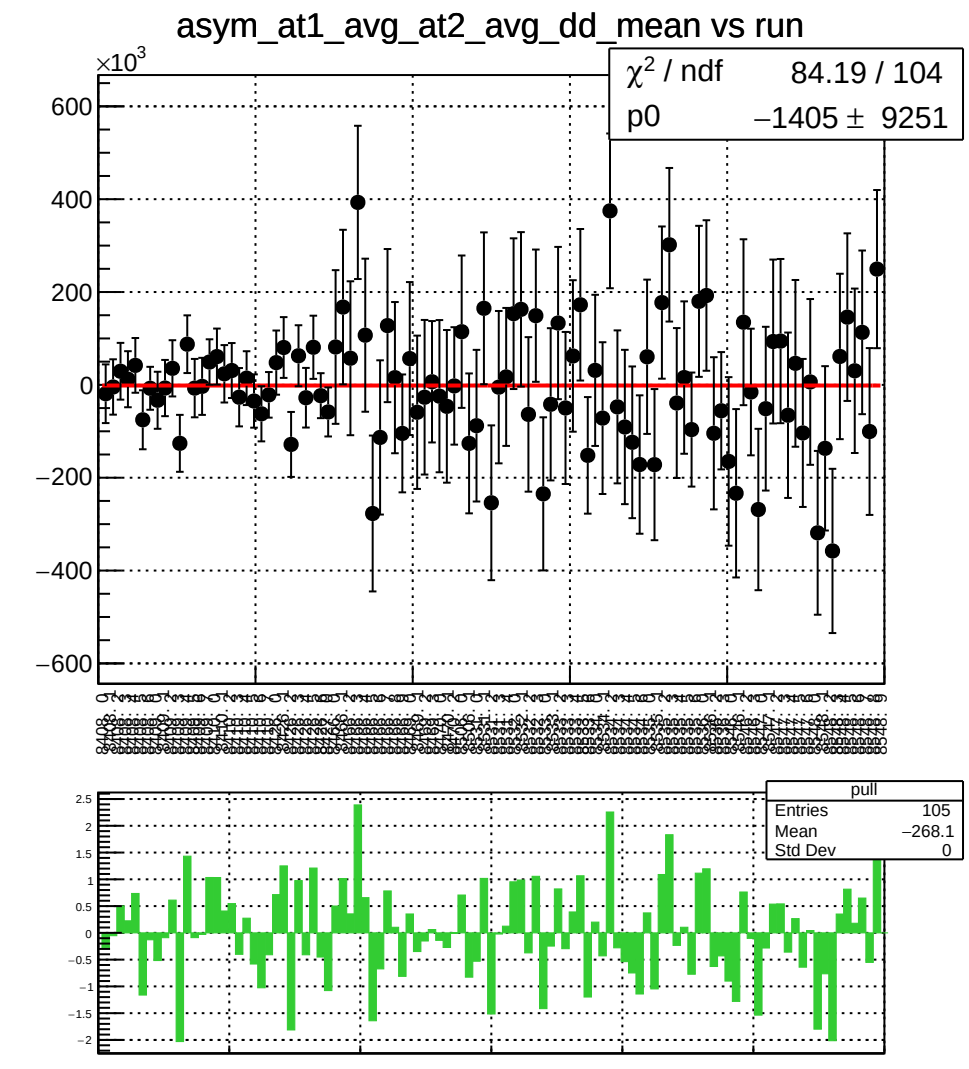

asym_at1_avg_at2_avg_dd_dit_correction_rms vs run
χ² / ndf 5.574e+05 / 104
p0 670.6 ± 0.5496
7000
6000
5000
4000
3000
2000
1000

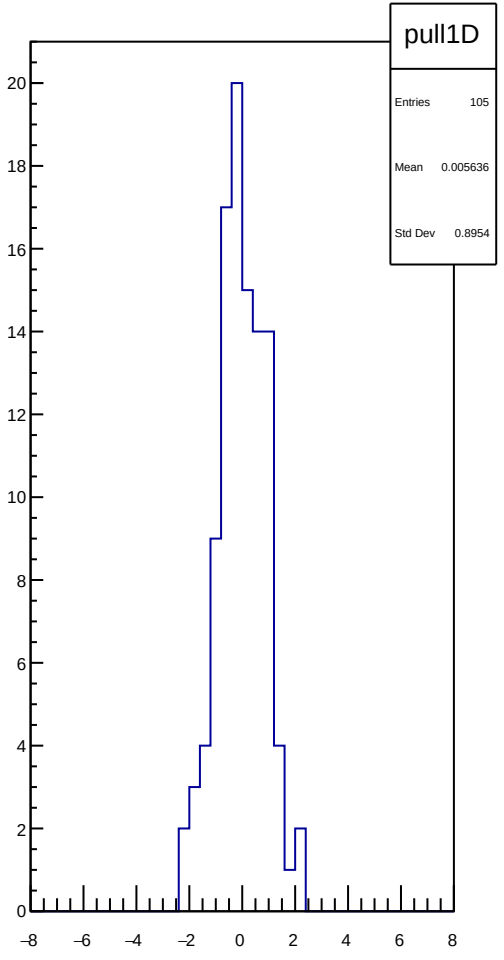

eigen_dit_asym_at1_avg_at2_avg_dd_mean vs run
×10^3
χ^2 / ndf 89.7 / 104
p0 1038 ± 2316
pull
Entries 105
Mean −1.549e+04
Std Dev 0
pull1D
Entries 105
Mean 0.0001349
Std Dev 0.9243

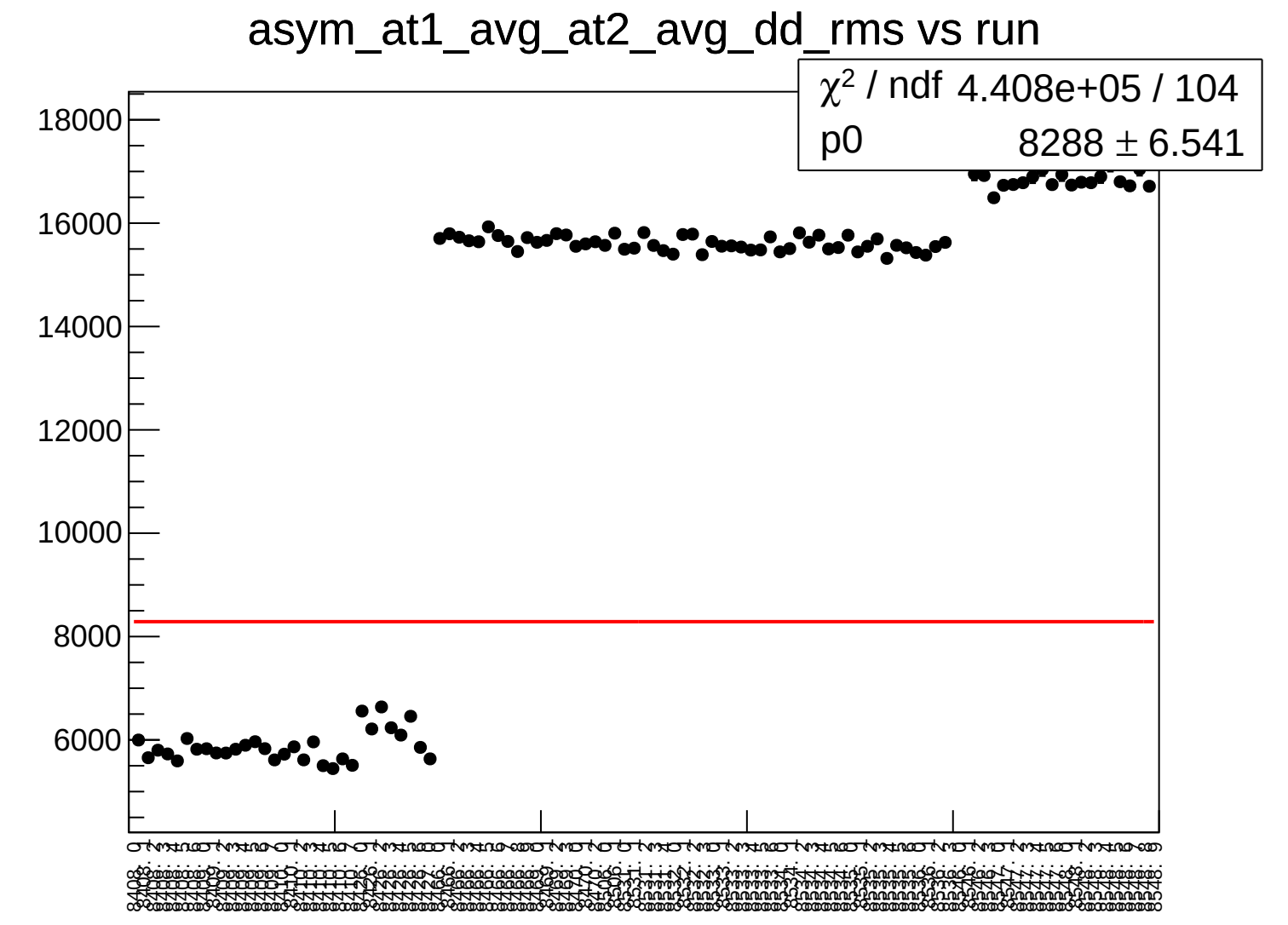

eigen_dit_asym_at1_avg_at2_avg_dd_rms vs run
χ² / ndf 1.202e+06 / 104
p0 1505 ± 1.638
18000
16000
14000
12000
10000
8000
6000
4000
2000

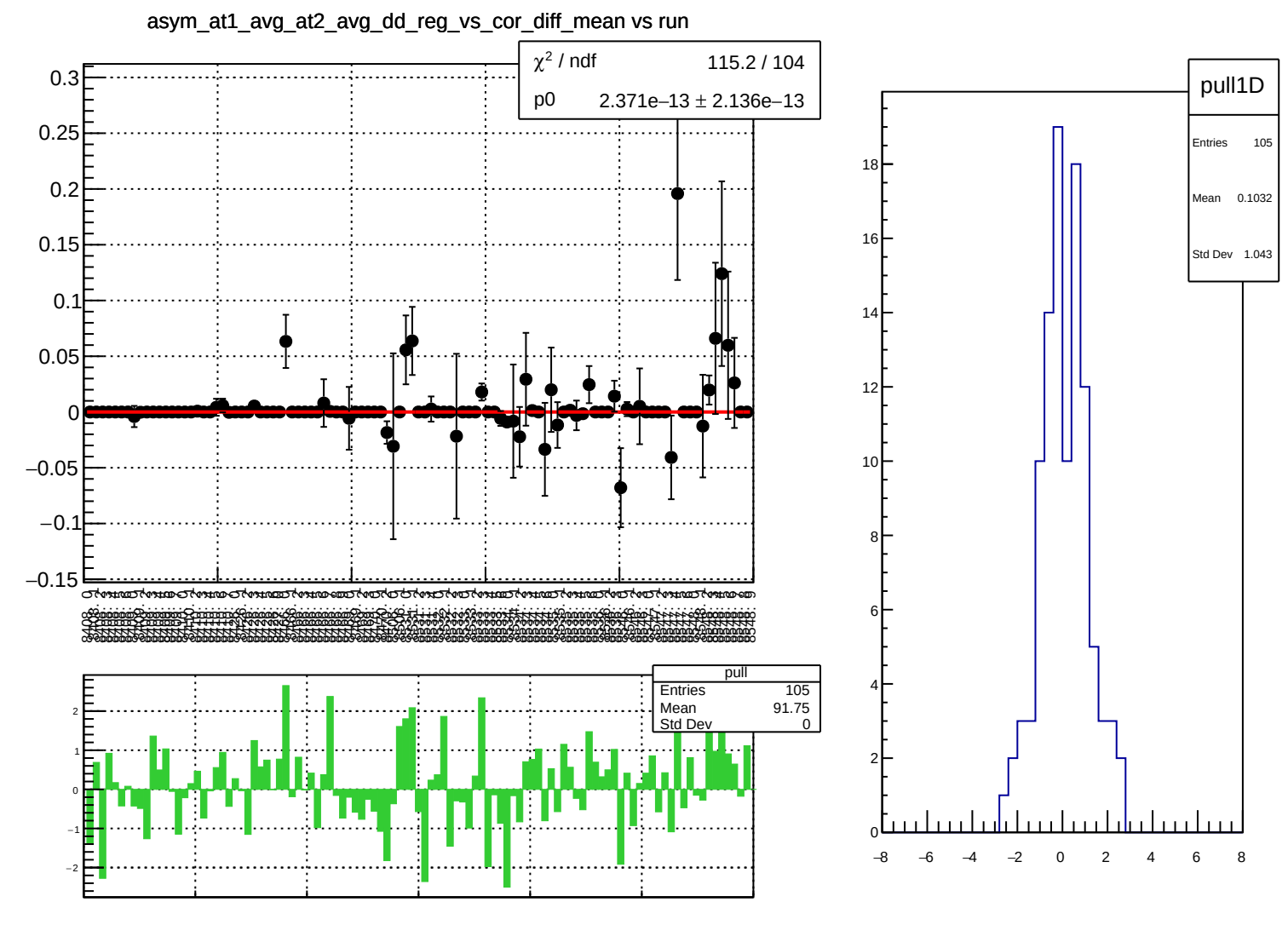

asym_at1_avg_at2_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 98.18 / 104
p0 204.3 ± 777.2
200
150
100
50
0
−50
−100
−150
pull
Entries 105
Mean −10.1
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.007353
Std Dev 0.9669
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

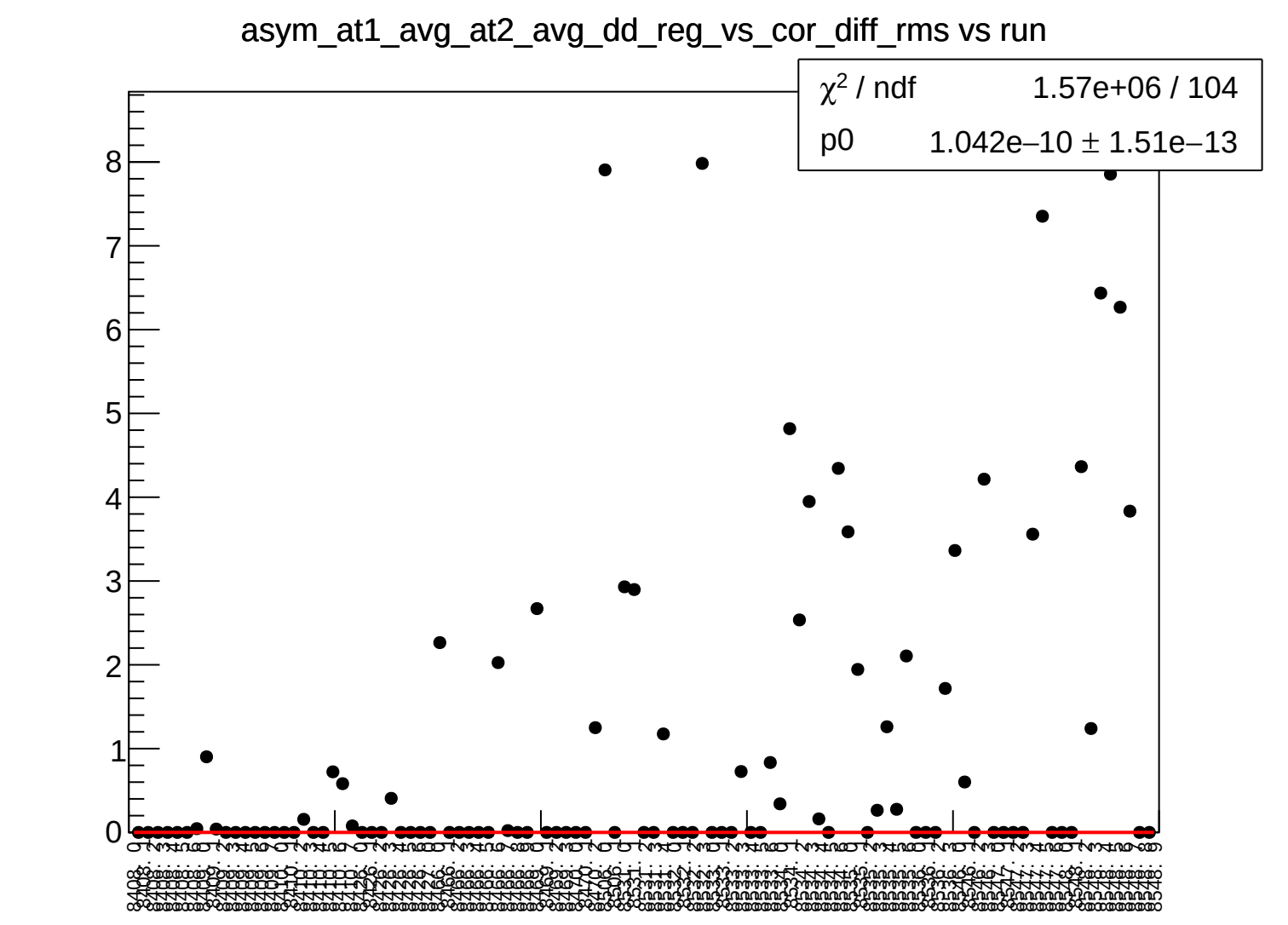

asym_at1_avg_at2_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 5.574e+05 / 104
p0 670.6 ± 0.5496
7000
6000
5000
4000
3000
2000
1000

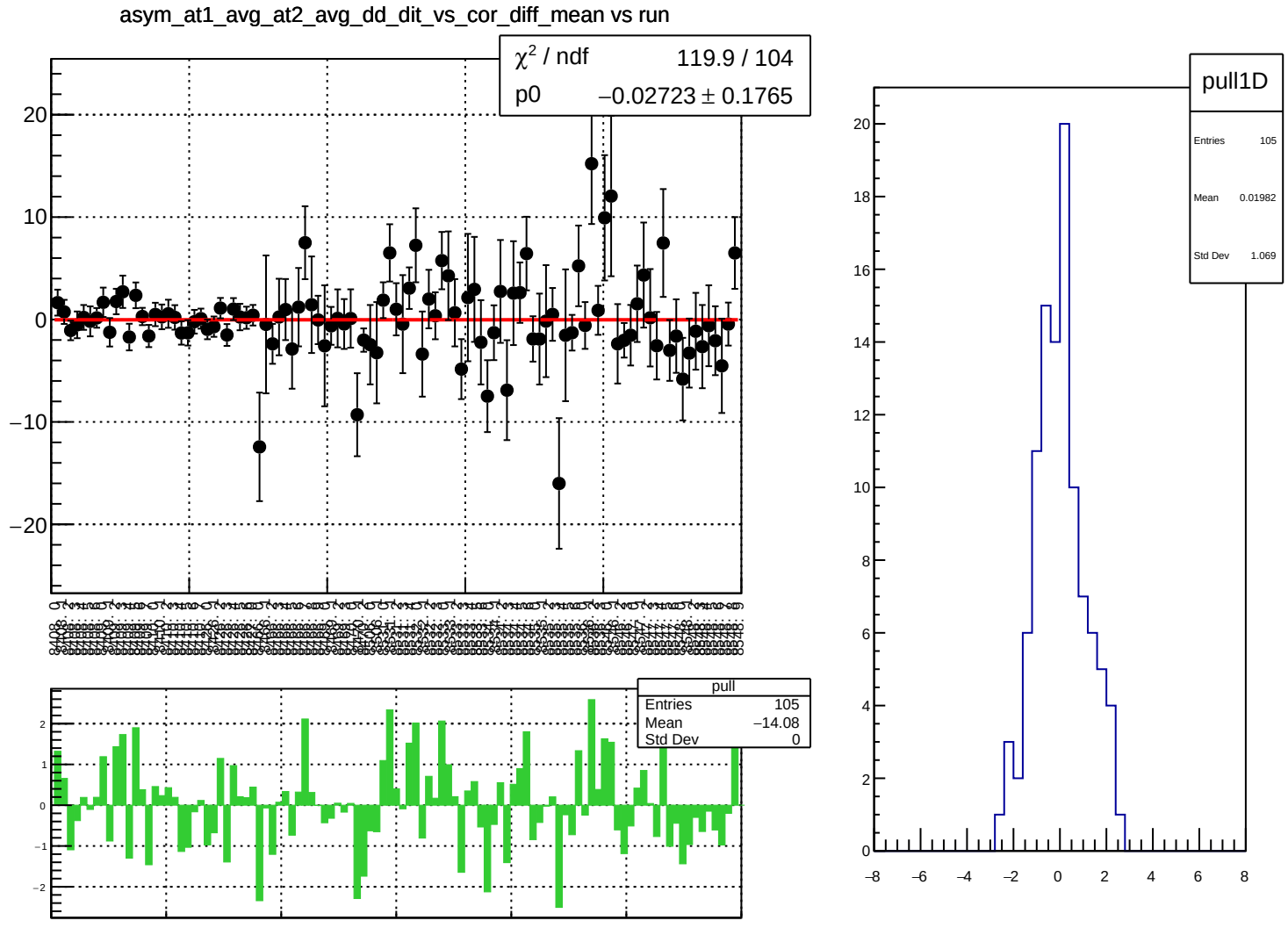

asym_at1_avg_at2_avg_dd_mean vs run
×10^3
χ² / ndf 84.19 / 104
p0 −1405 ± 9251
600
400
200
0
−200
−400
−600
pull
Entries 105
Mean −268.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

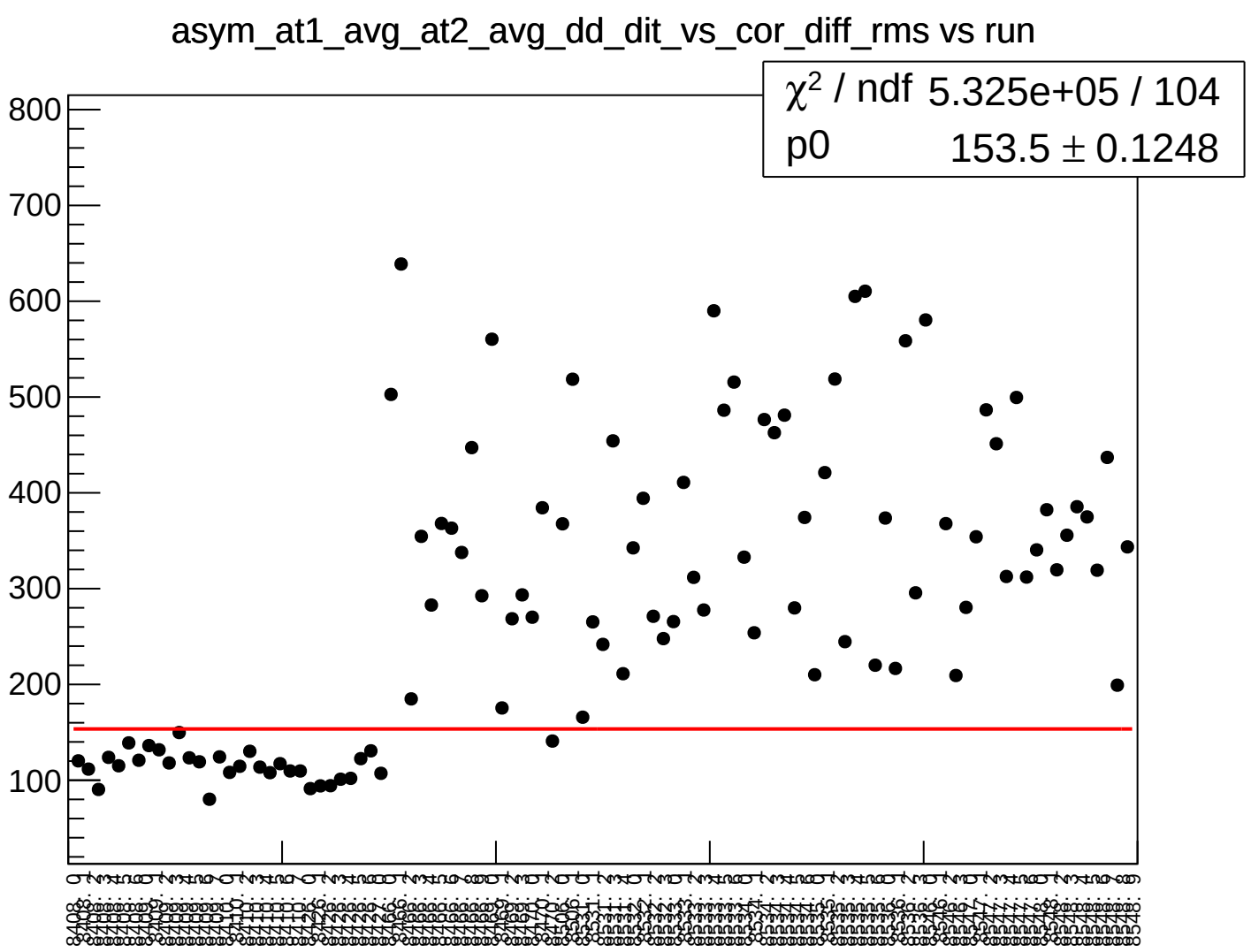

pull1D
Entries 105
Mean 0.005636
Std Dev 0.8954
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

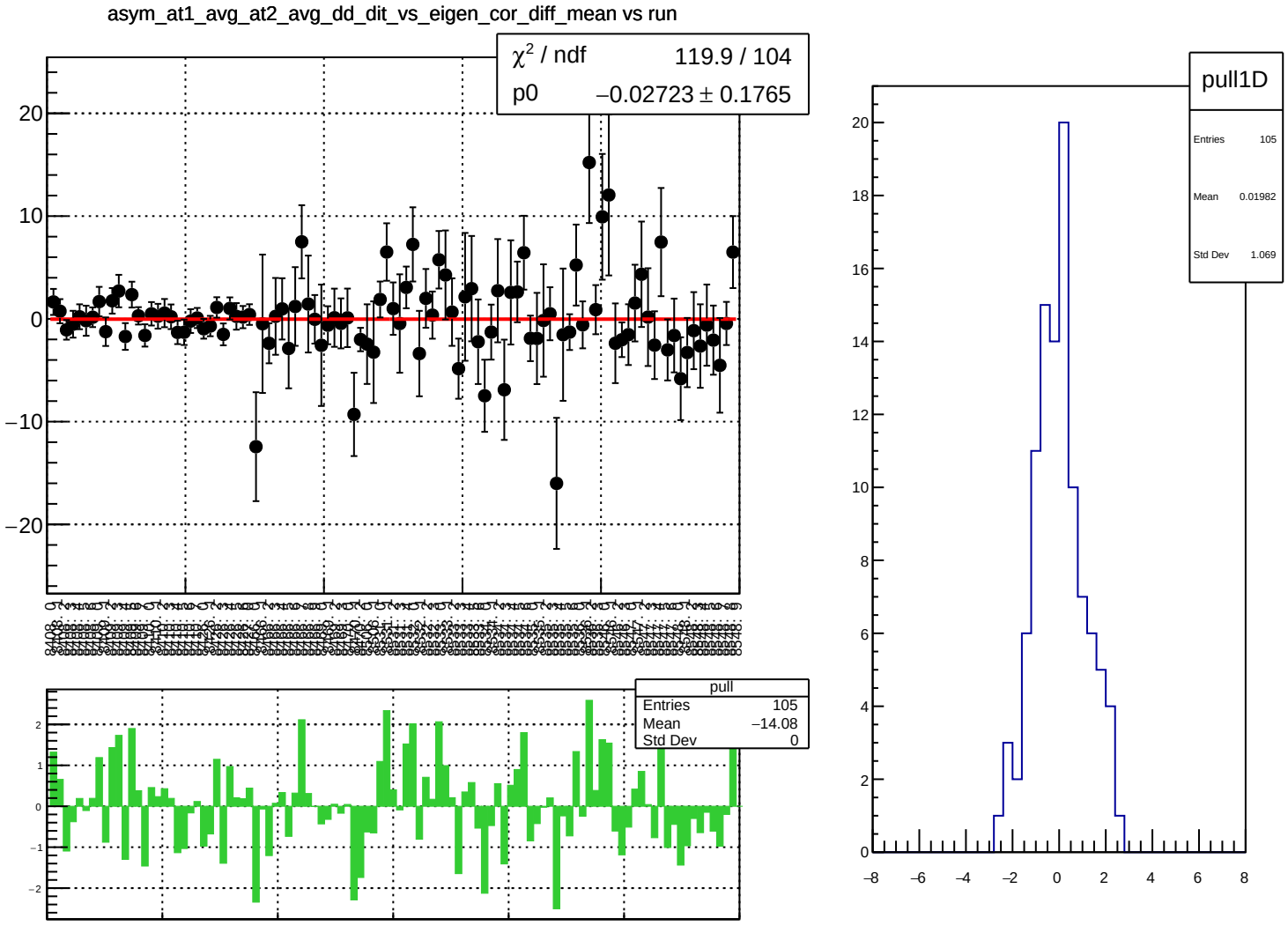

asym_at1_avg_at2_avg_dd_rms vs run
χ^2 / ndf 4.408e+05 / 104
p0 8288 ± 6.541
18000
16000
14000
12000
10000
8000
6000

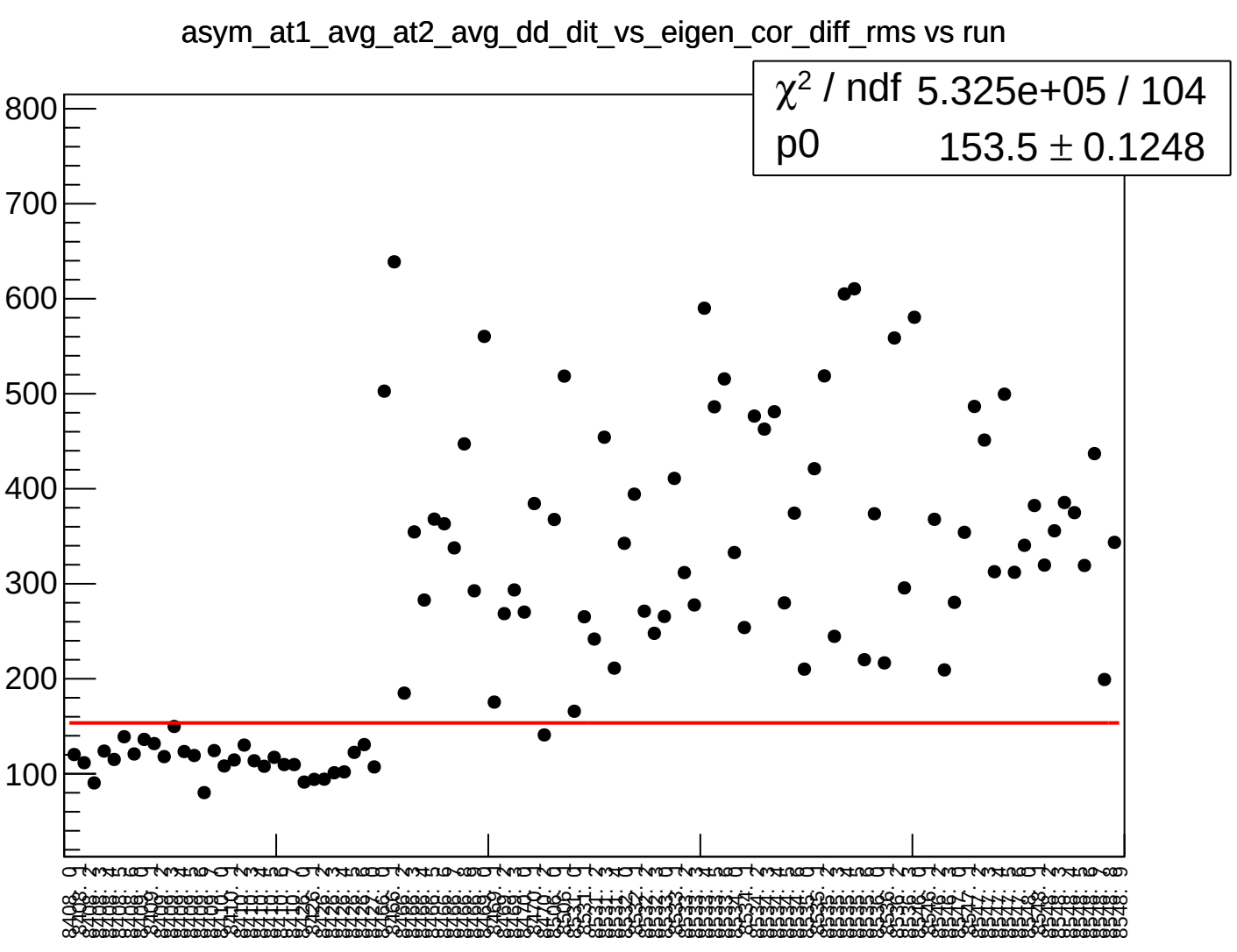

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 115.2 / 104
p0 2.371e−13 ± 2.136e−13
pull
Entries 105
Mean 91.75
Std Dev 0
pull1D
Entries 105
Mean 0.1032
Std Dev 1.043

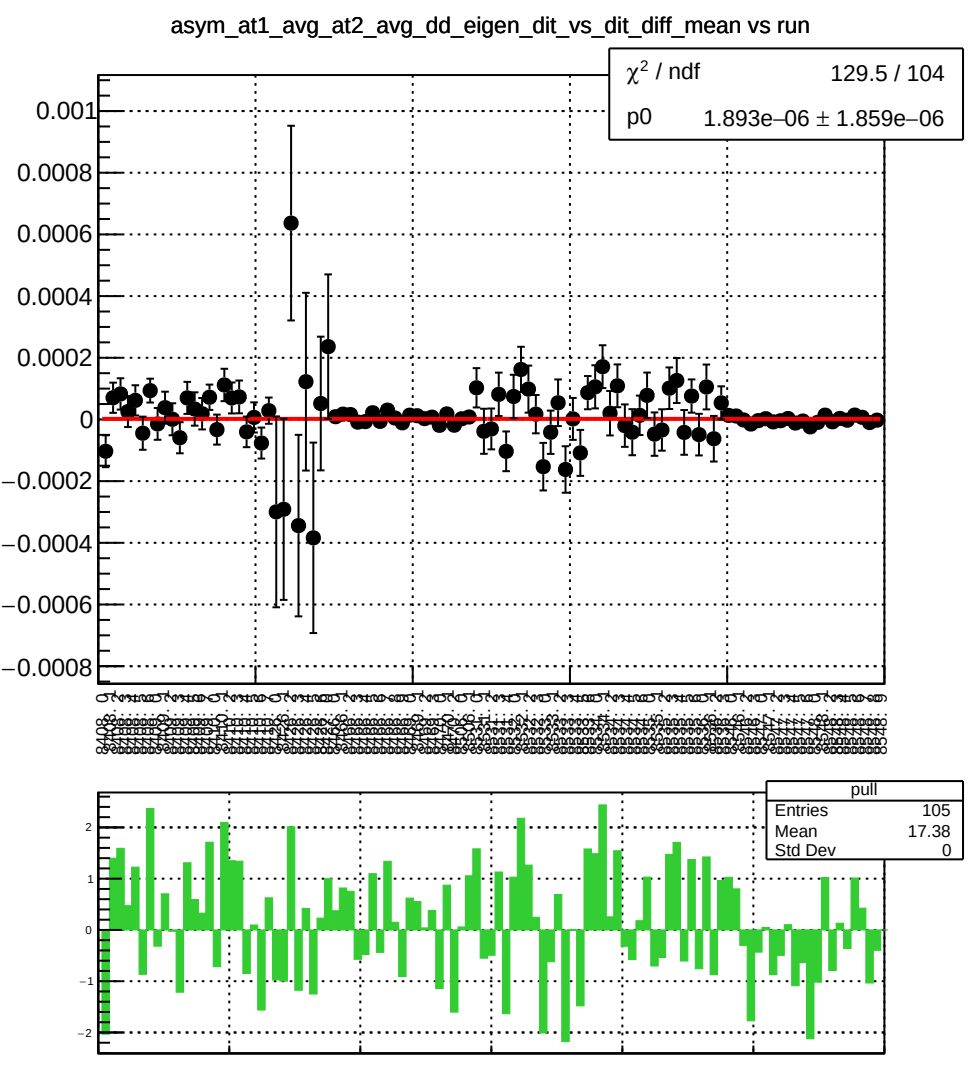

asym_at1_avg_at2_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.57e+06 / 104
p0 1.042e−10 ± 1.51e−13
0
1
2
3
4
5
6
7
8

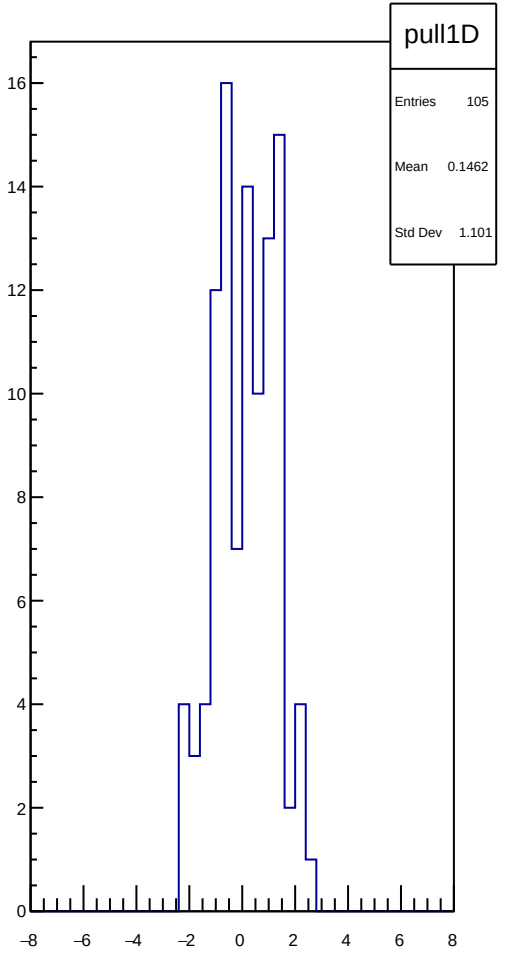

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 119.9 / 104
p0 −0.02723 ± 0.1765
20
10
0
−10
−20
pull
Entries 105
Mean −14.08
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.01982
Std Dev 1.069
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

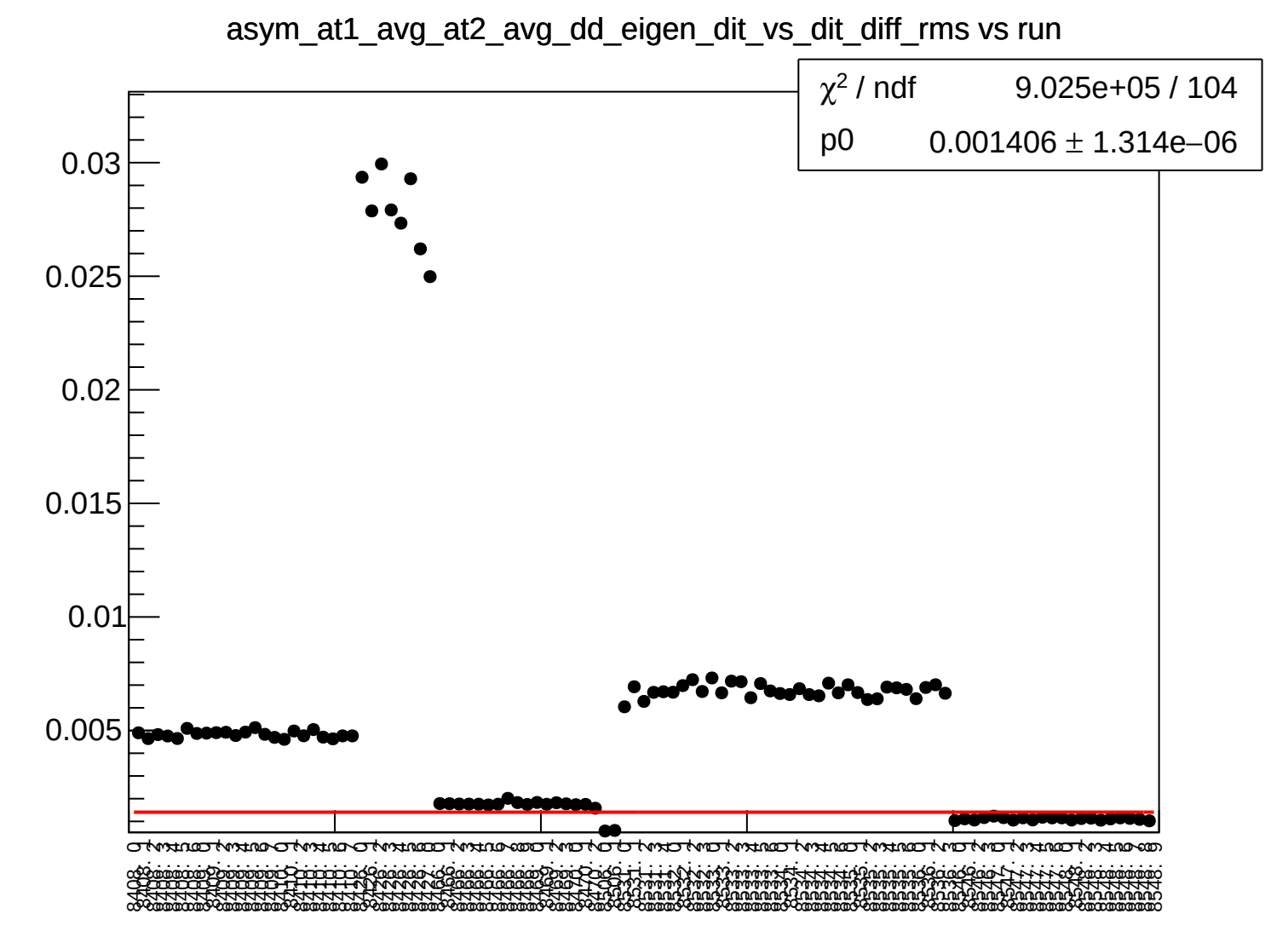

asym_at1_avg_at2_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.325e+05 / 104
p0 153.5 ± 0.1248
800
700
600
500
400
300
200
100

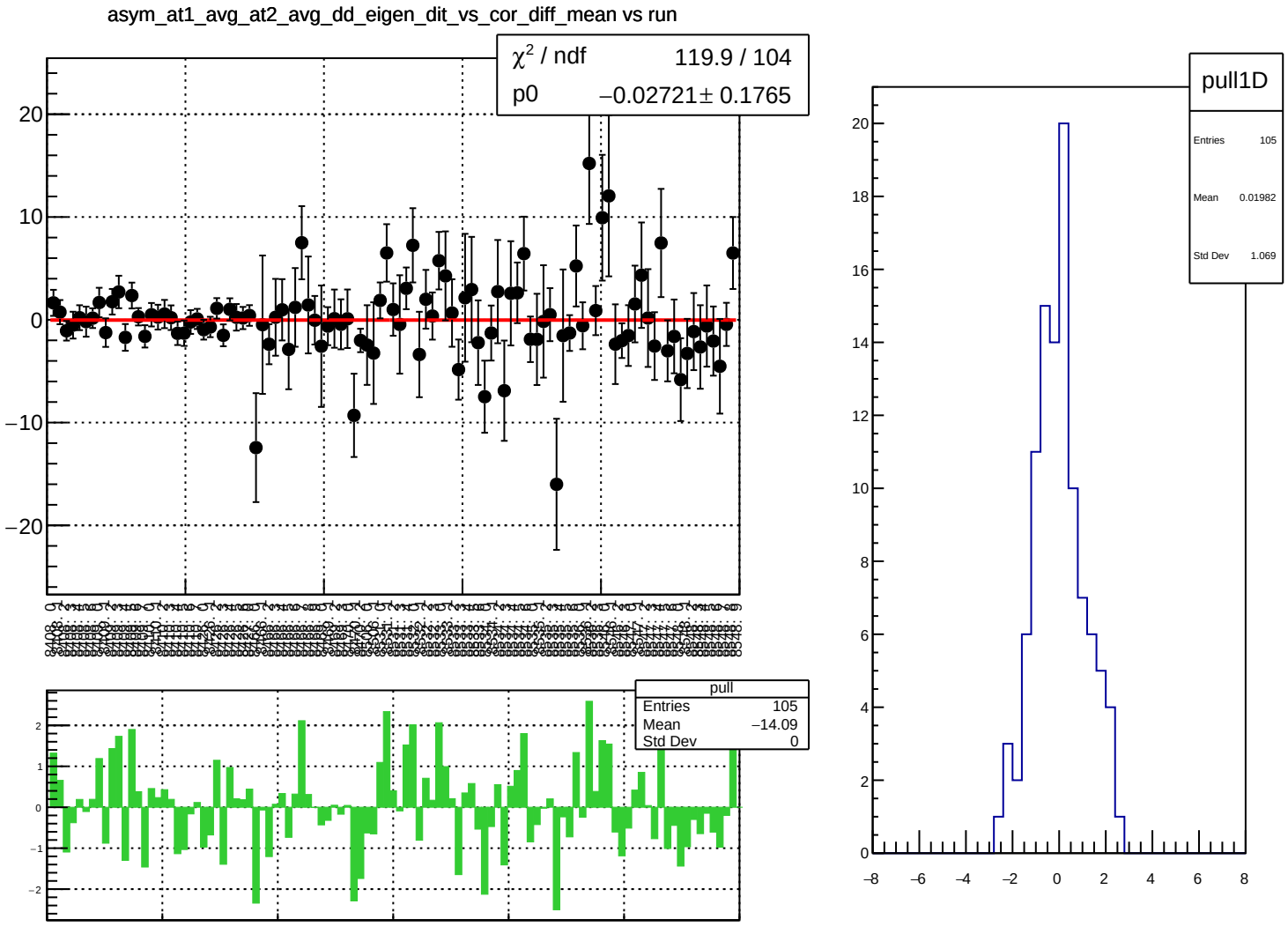

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 119.9 / 104
p0 −0.02723 ± 0.1765
20
10
0
−10
−20
pull
Entries 105
Mean −14.08
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.01982
Std Dev 1.069
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

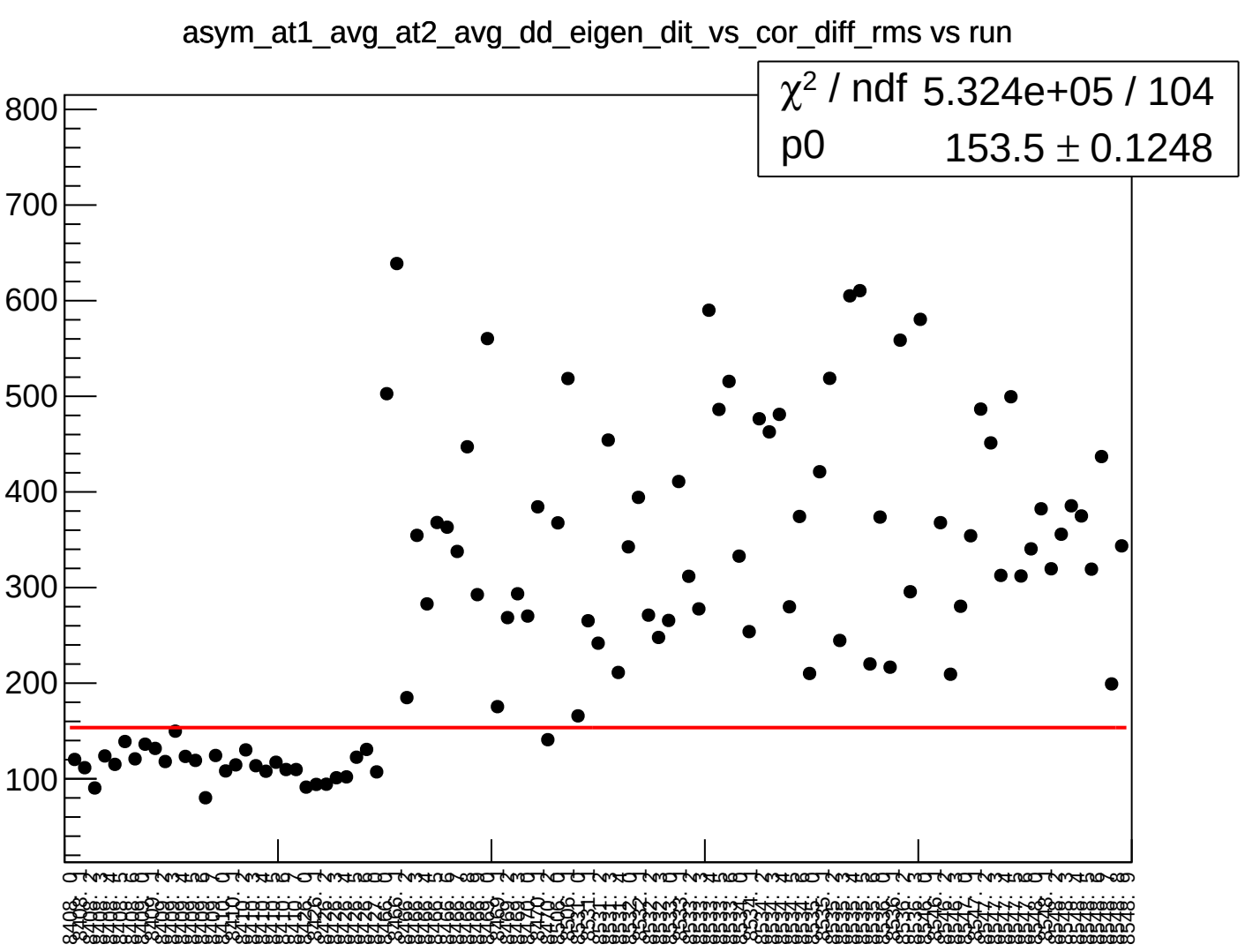

asym_at1_avg_at2_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.325e+05 / 104
p0 153.5 ± 0.1248
800
700
600
500
400
300
200
100

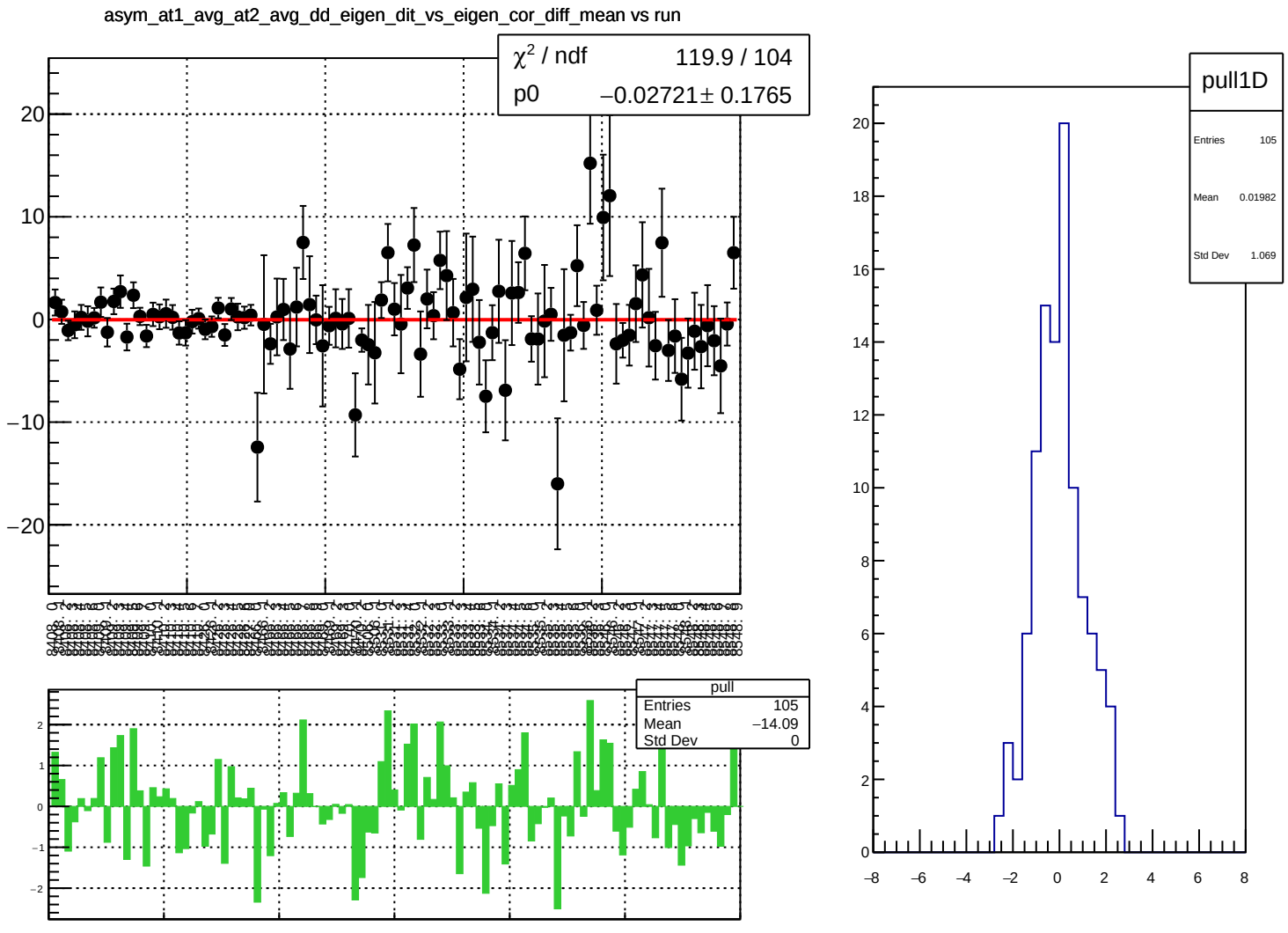

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 129.5 / 104
p0 1.893e−06 ± 1.859e−06
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
pull
Entries 105
Mean 17.38
Std Dev 0
2
1
0
−1
−2

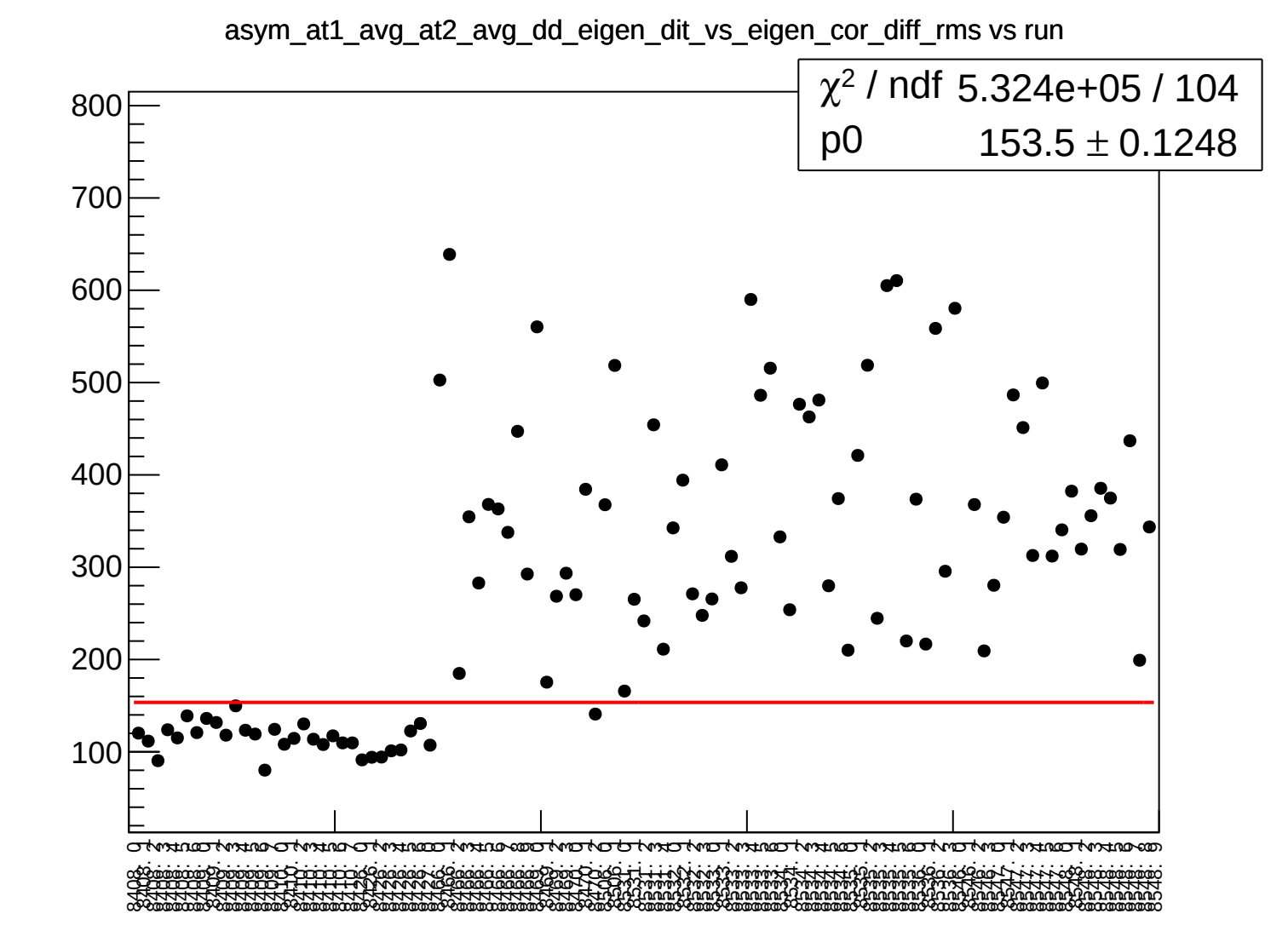

pull1D
Entries 105
Mean 0.1462
Std Dev 1.101
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

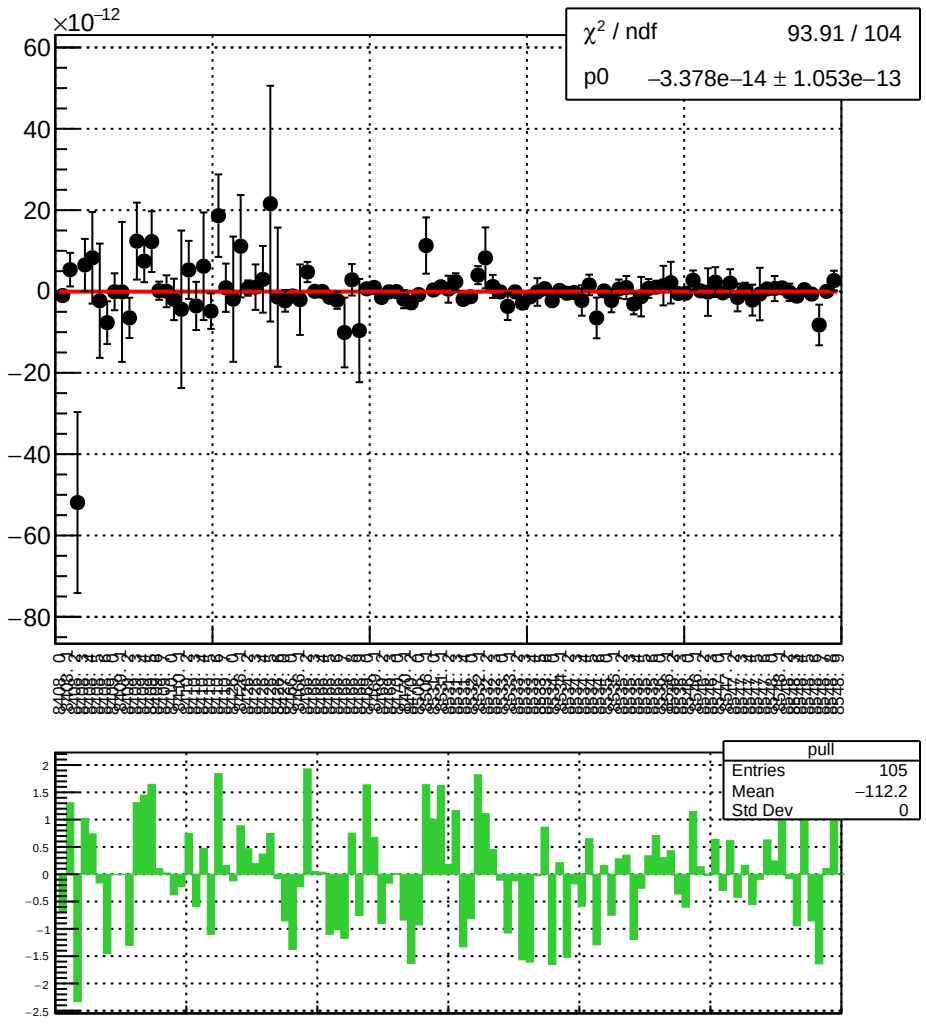

asym_at1_avg_at2_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.025e+05 / 104
p0 0.001406 ± 1.314e−06
0.03
0.025
0.02
0.015
0.01
0.005

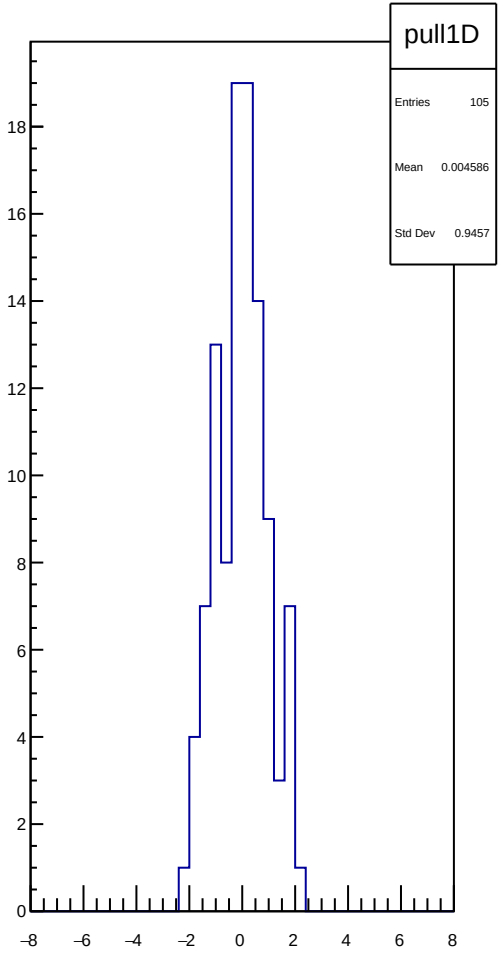

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 119.9 / 104
p0 −0.02721 ± 0.1765
pull
Entries 105
Mean −14.09
Std Dev 0
pull1D
Entries 105
Mean 0.01982
Std Dev 1.069

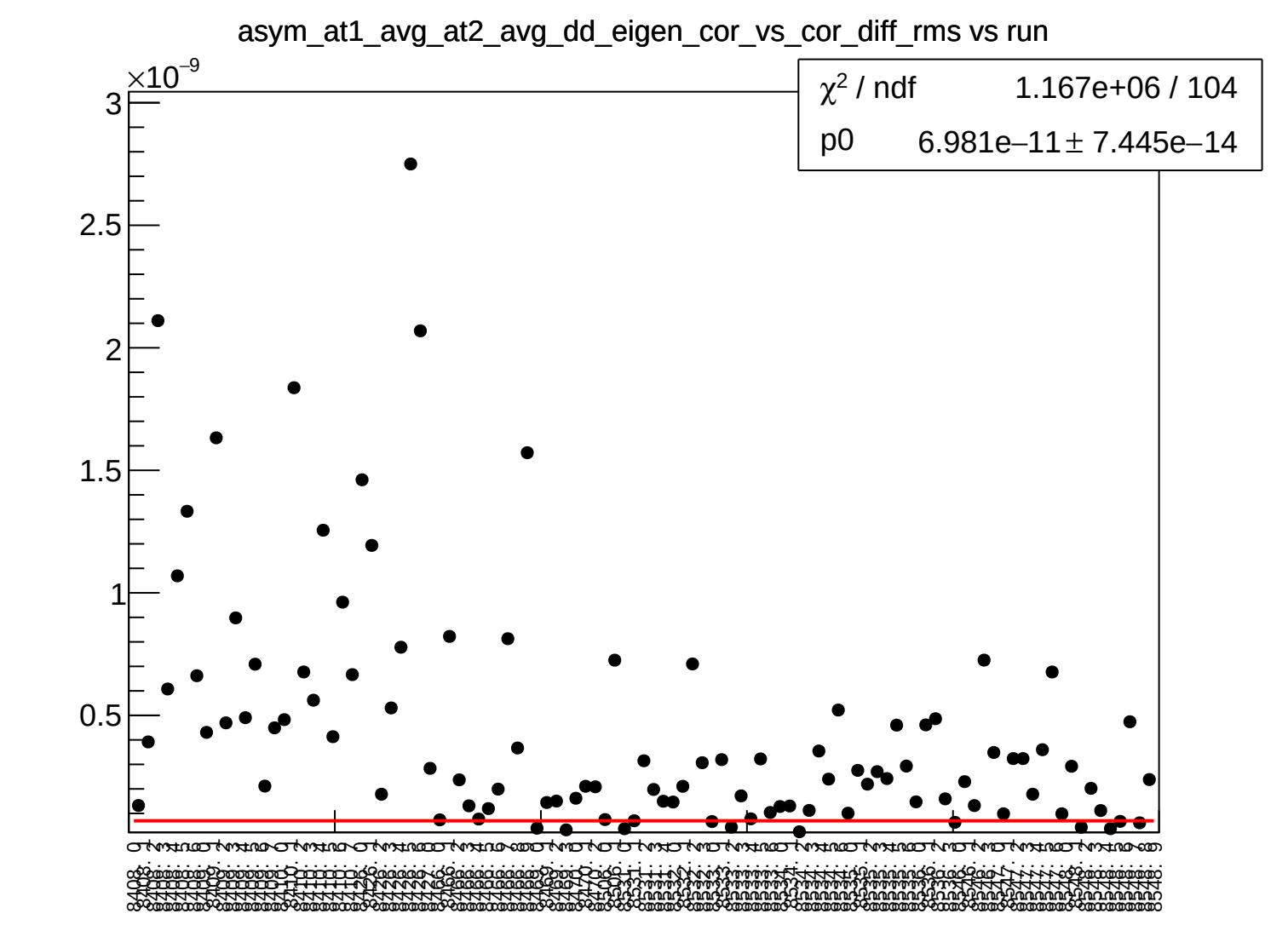

asym_at1_avg_at2_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.324e+05 / 104
p0 153.5 ± 0.1248
800
700
600
500
400
300
200
100

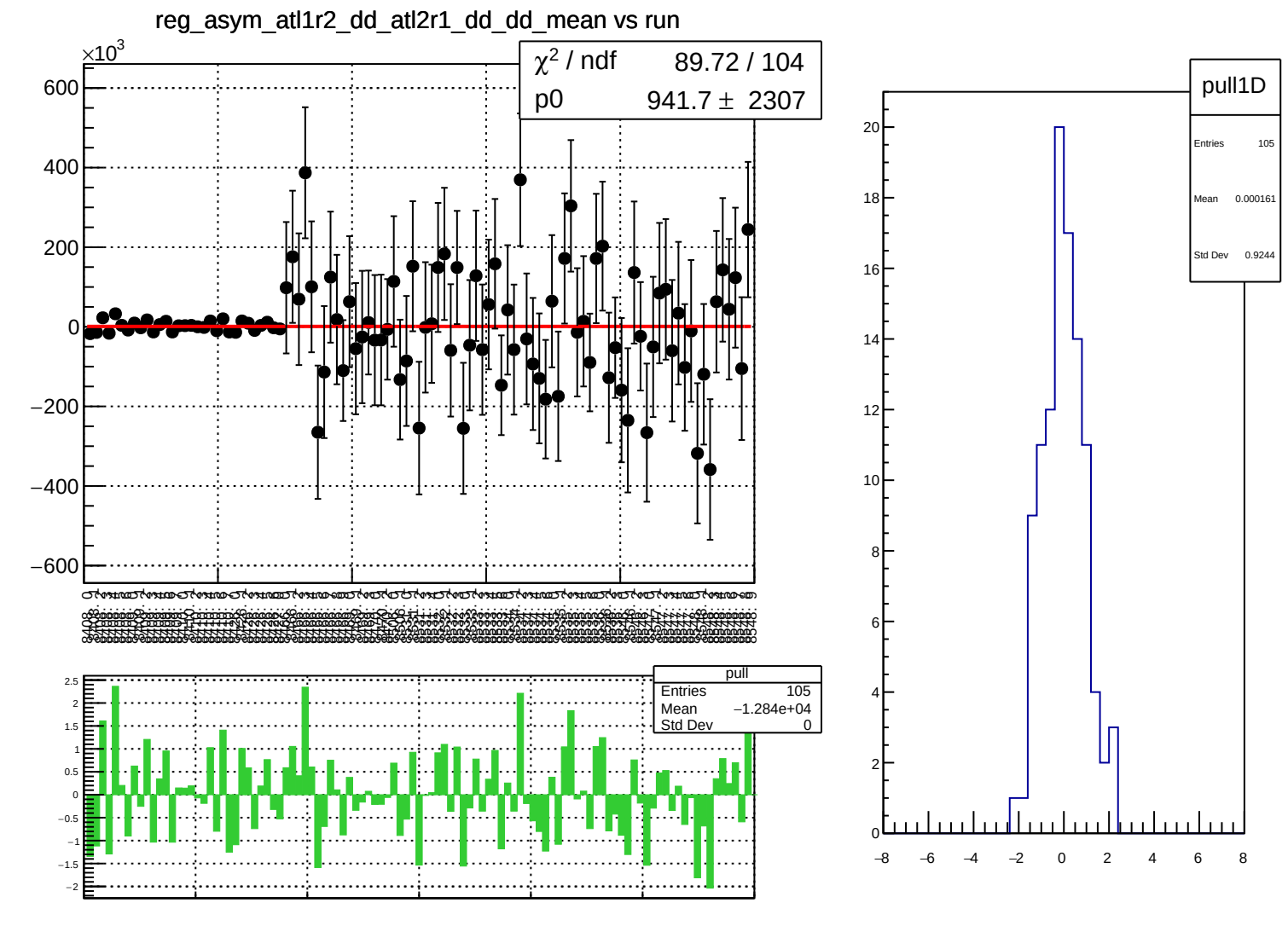

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 119.9 / 104
p0 −0.02721 ± 0.1765
pull
Entries 105
Mean −14.09
Std Dev 0
pull1D
Entries 105
Mean 0.01982
Std Dev 1.069

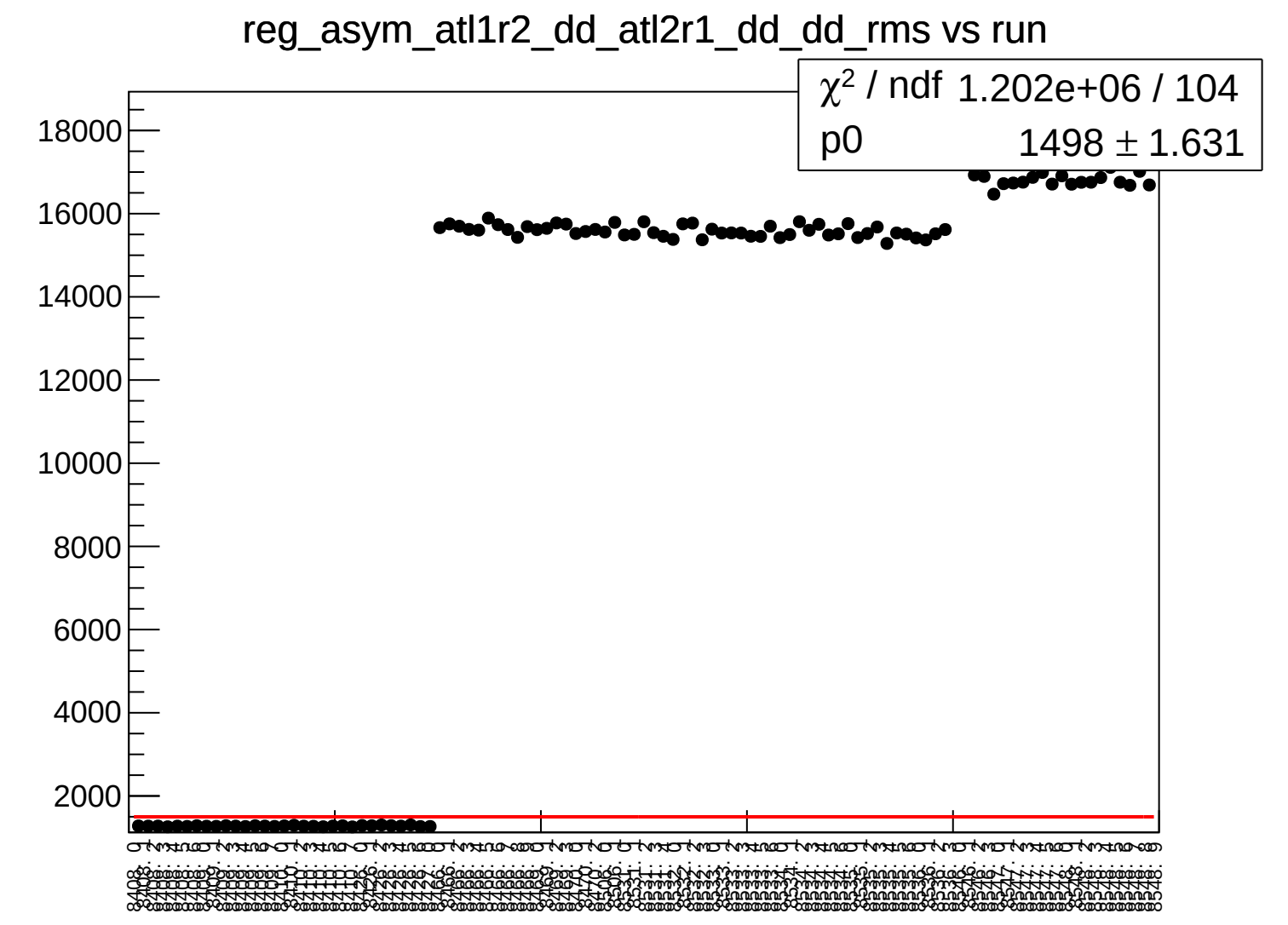

asym_at1_avg_at2_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.324e+05 / 104
p0 153.5 ± 0.1248
800
700
600
500
400
300
200
100

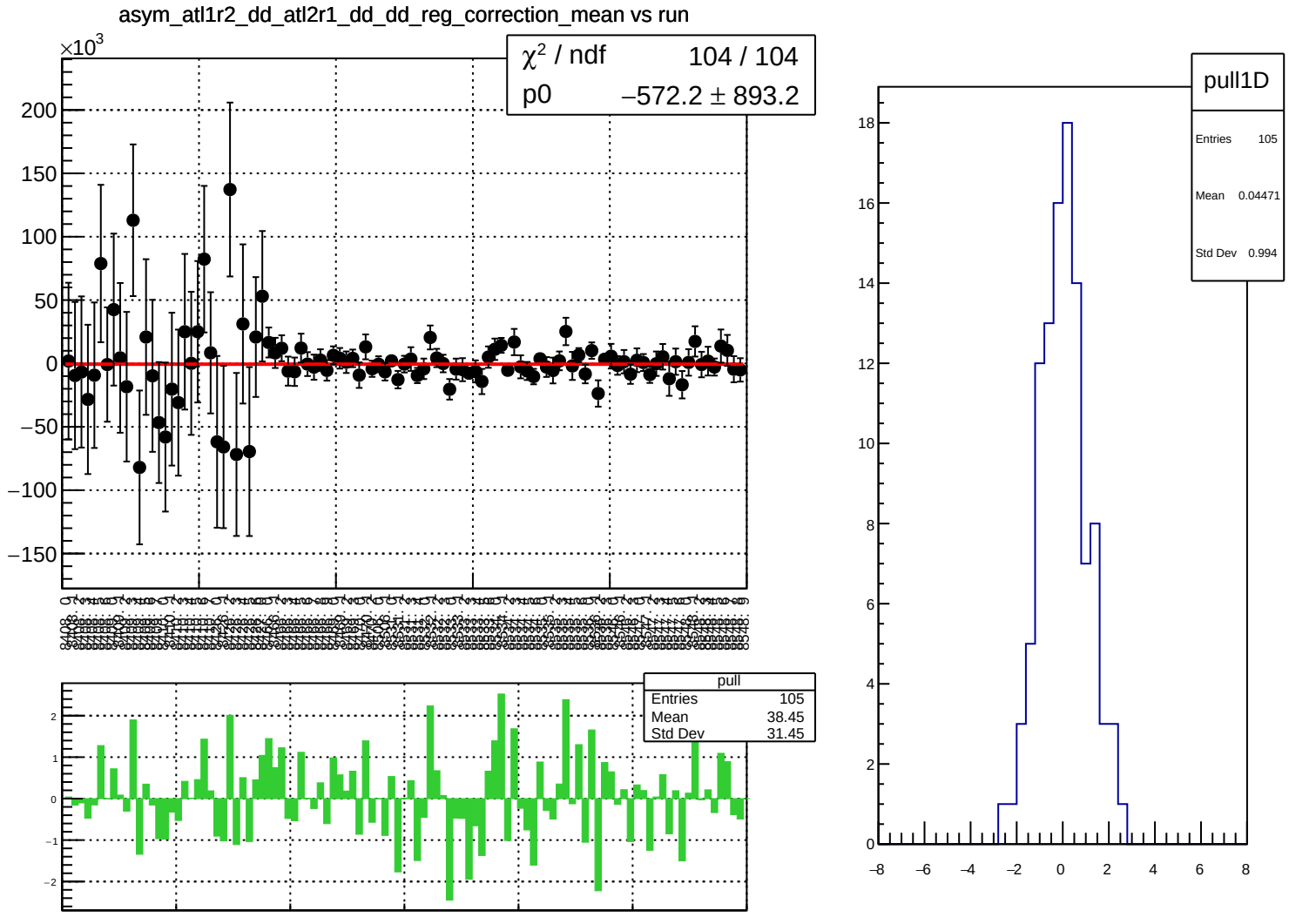

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 93.91 / 104
p0 −3.378e−14 ± 1.053e−13
pull
Entries 105
Mean −112.2
Std Dev 0

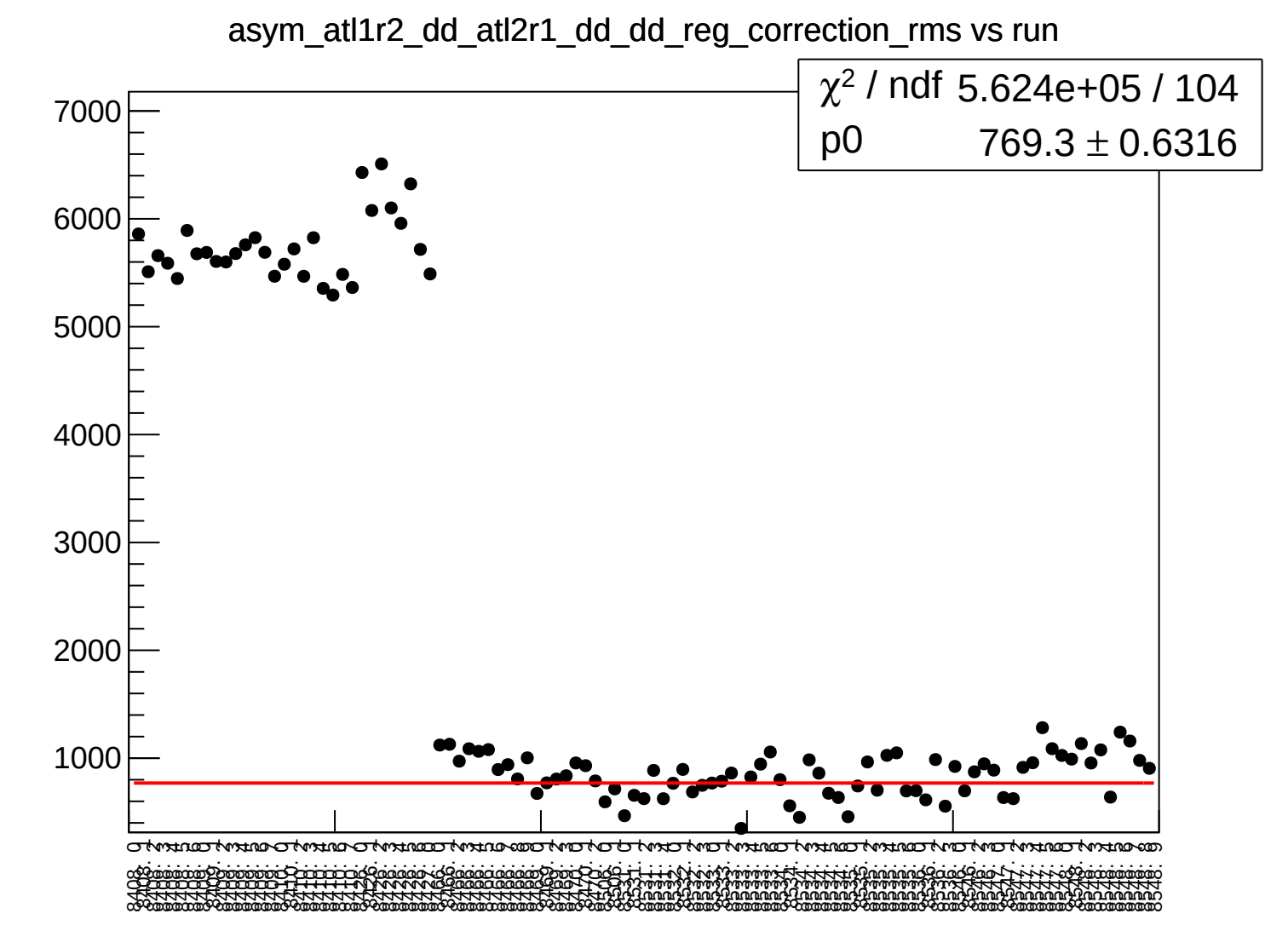

pull1D
Entries 105
Mean 0.004586
Std Dev 0.9457

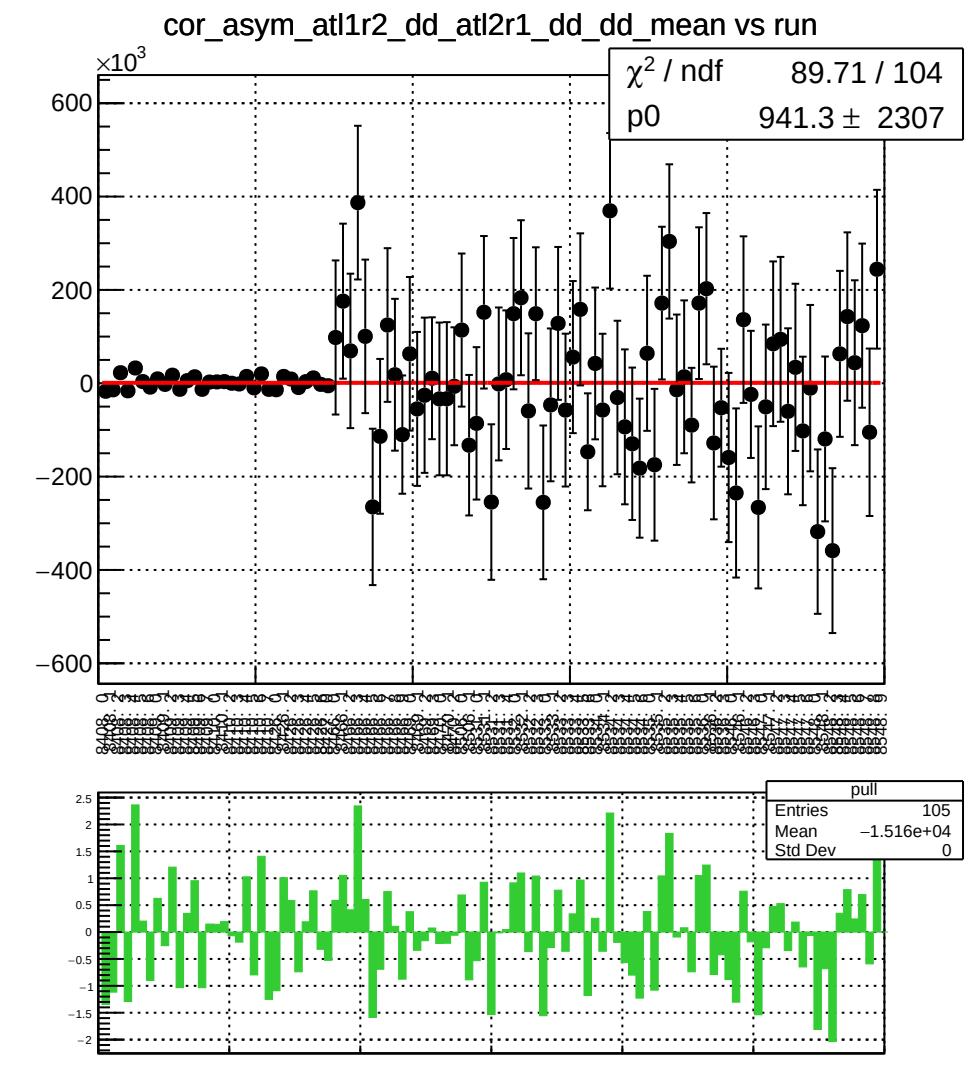

asym_at1_avg_at2_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
3
2.5
2
1.5
1
0.5
χ² / ndf 1.167e+06 / 104
p0 6.981e−11 ± 7.445e−14

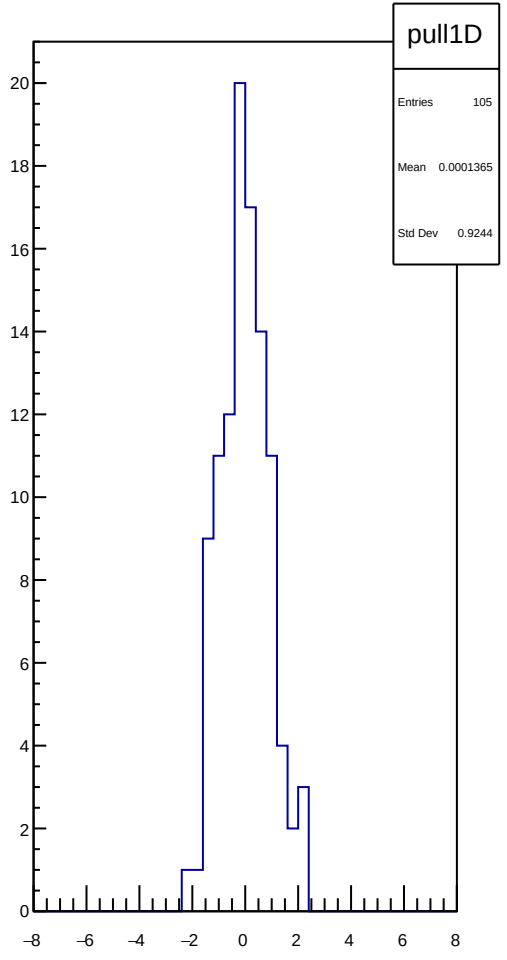

reg_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
×10^3
χ^2 / ndf 89.72 / 104
p0 941.7 ± 2307
600
400
200
0
−200
−400
−600
pull
Entries 105
Mean −1.284e+04
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 105
Mean 0.000161
Std Dev 0.9244
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

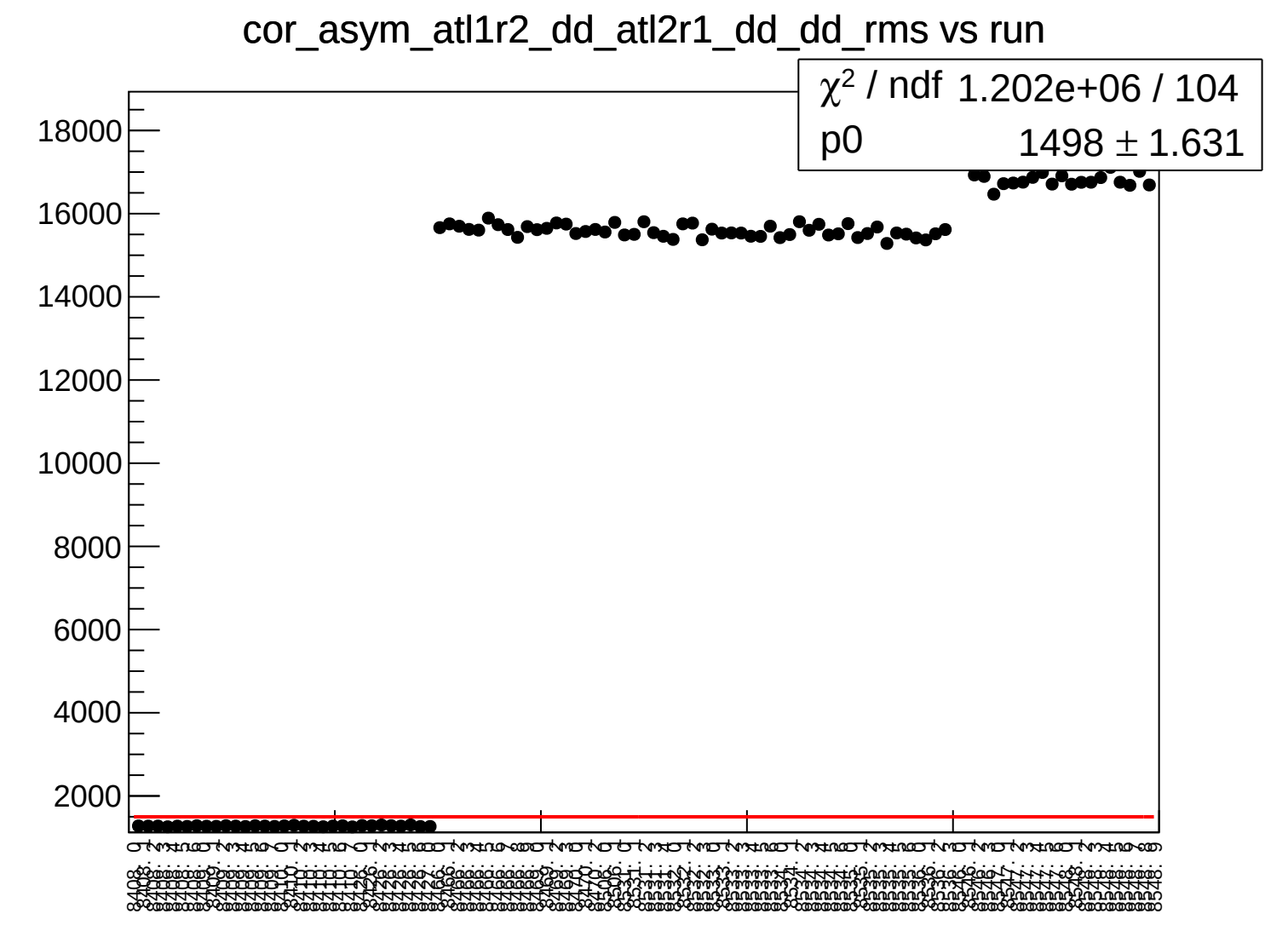

reg_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 1.202e+06 / 104
p0 1498 ± 1.631
18000
16000
14000
12000
10000
8000
6000
4000
2000

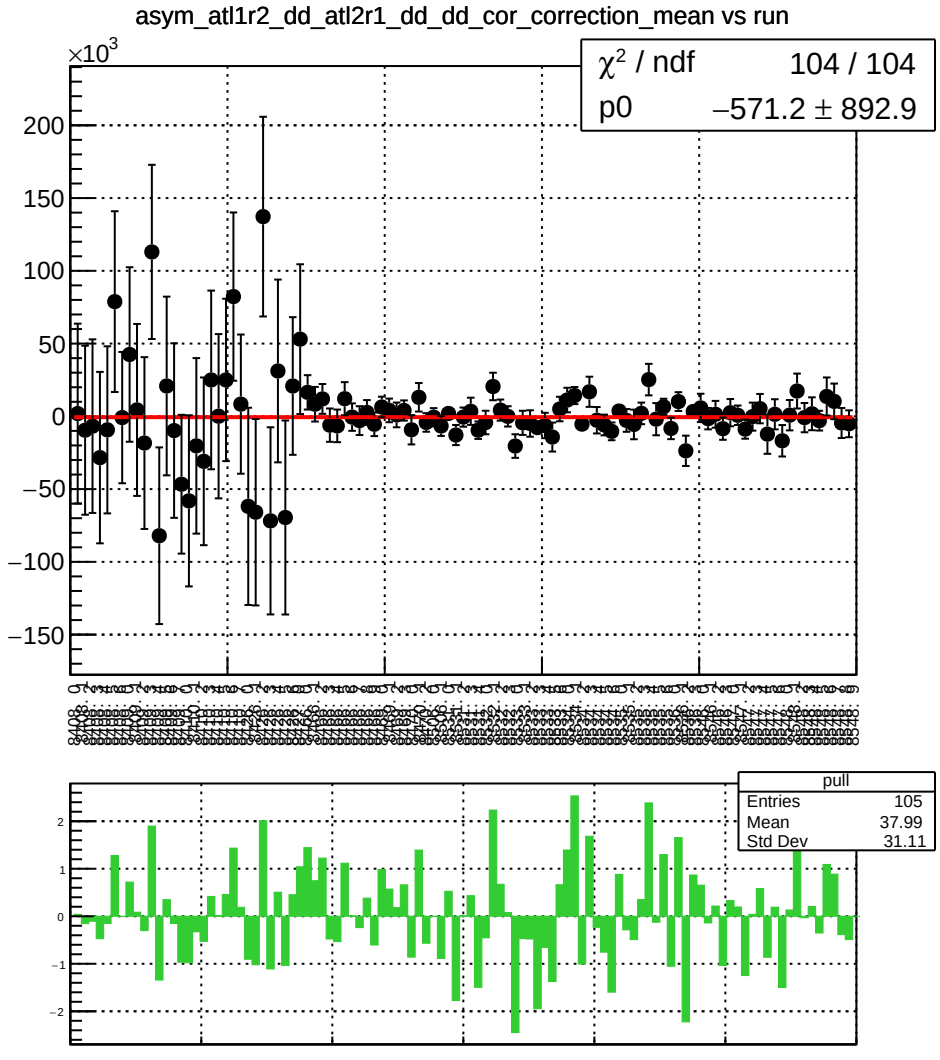

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_mean vs run
×10^3
χ² / ndf 104 / 104
p0 −572.2 ± 893.2
200
150
100
50
0
−50
−100
−150
pull
Entries 105
Mean 38.45
Std Dev 31.45
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.04471
Std Dev 0.994
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

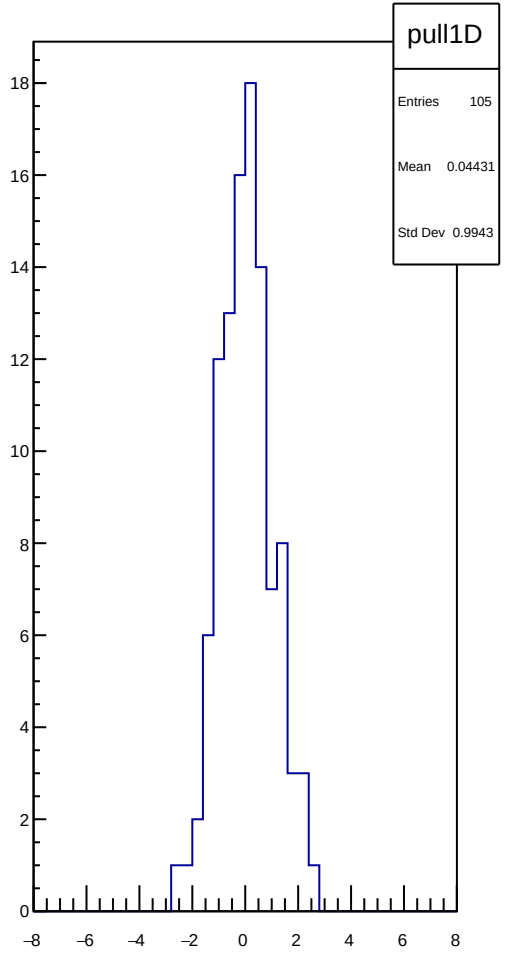

asym_atl1r2_dd_atl2r1_dd_dd_reg_correction_rms vs run
χ² / ndf 5.624e+05 / 104
p0 769.3 ± 0.6316
7000
6000
5000
4000
3000
2000
1000

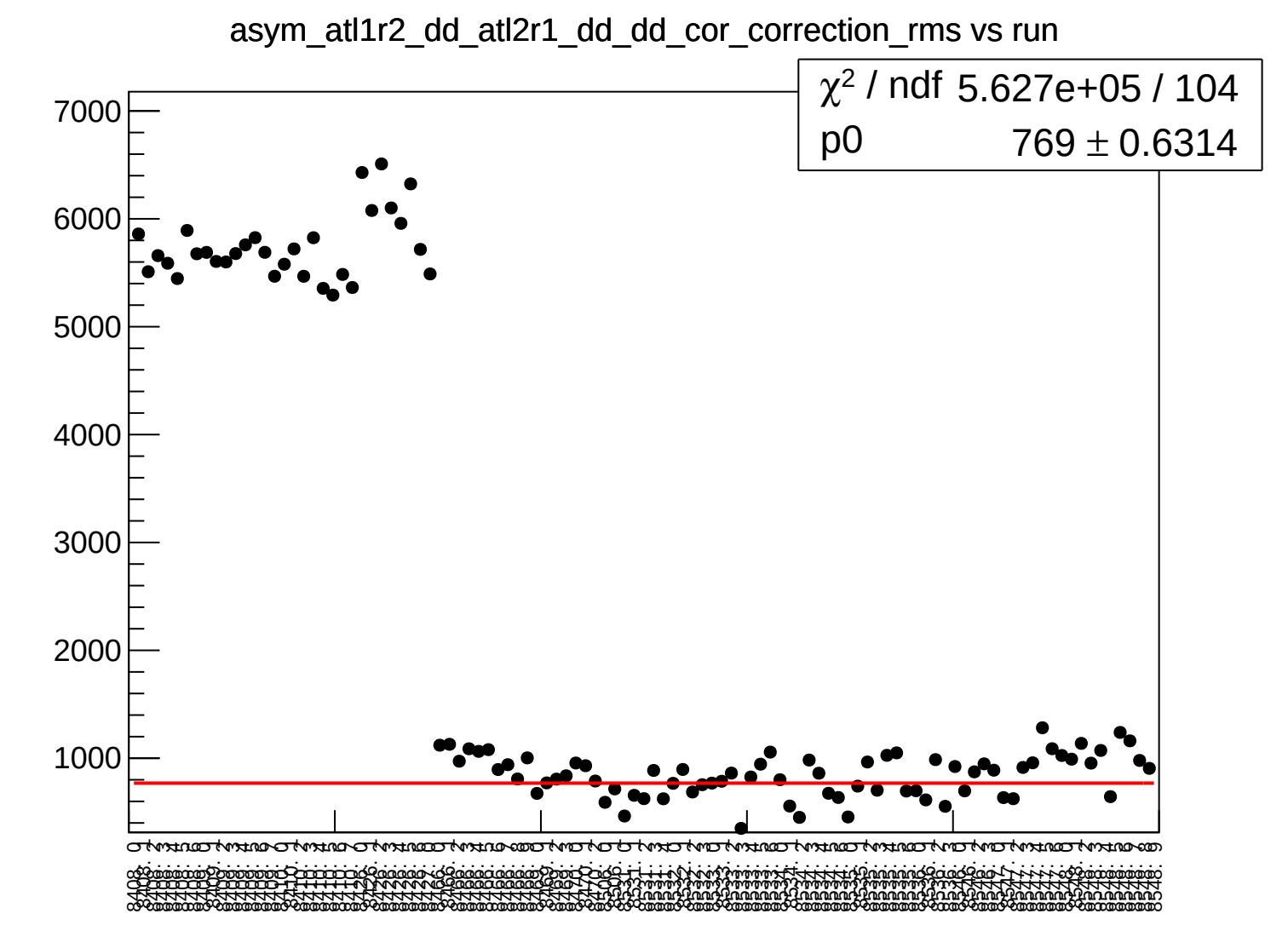

cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
×10^3
χ² / ndf 89.71 / 104
p0 941.3 ± 2307
600
400
200
0
−200
−400
−600
pull
Entries 105
Mean −1.516e+04
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

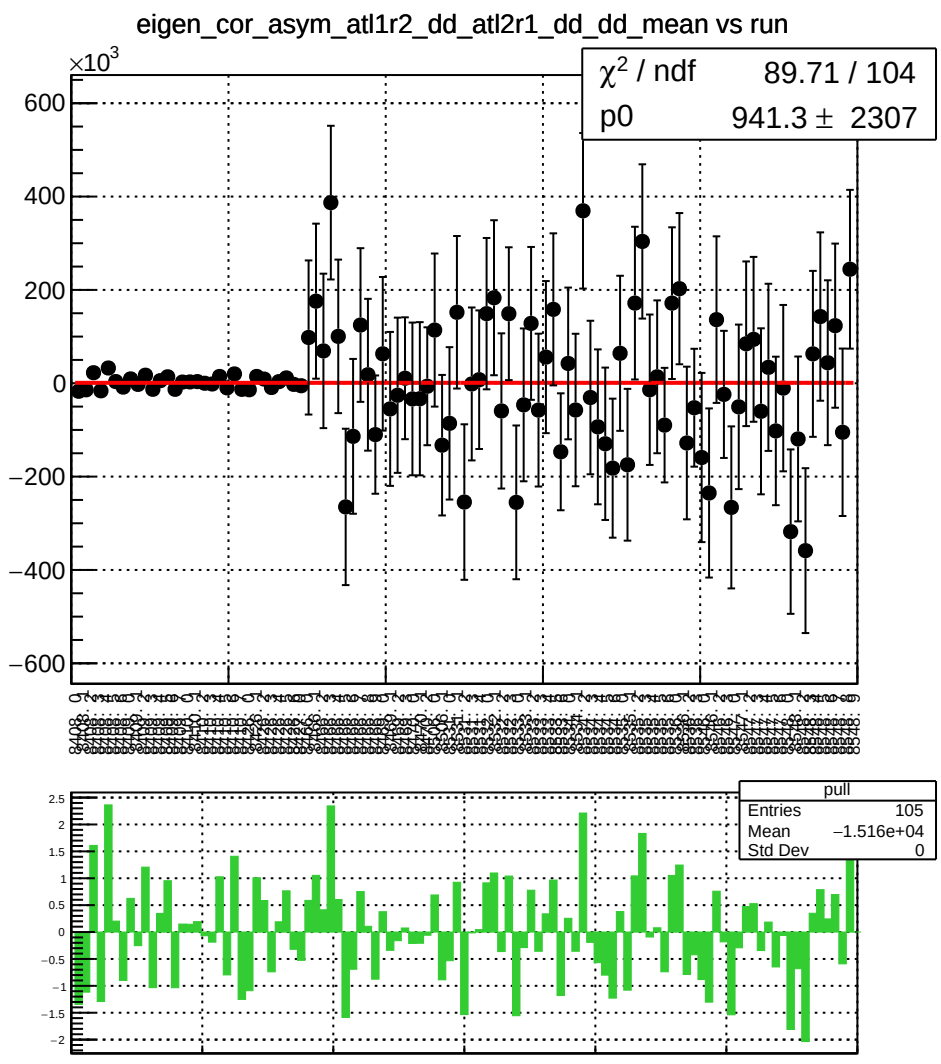

pull1D
Entries 105
Mean 0.0001365
Std Dev 0.9244
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

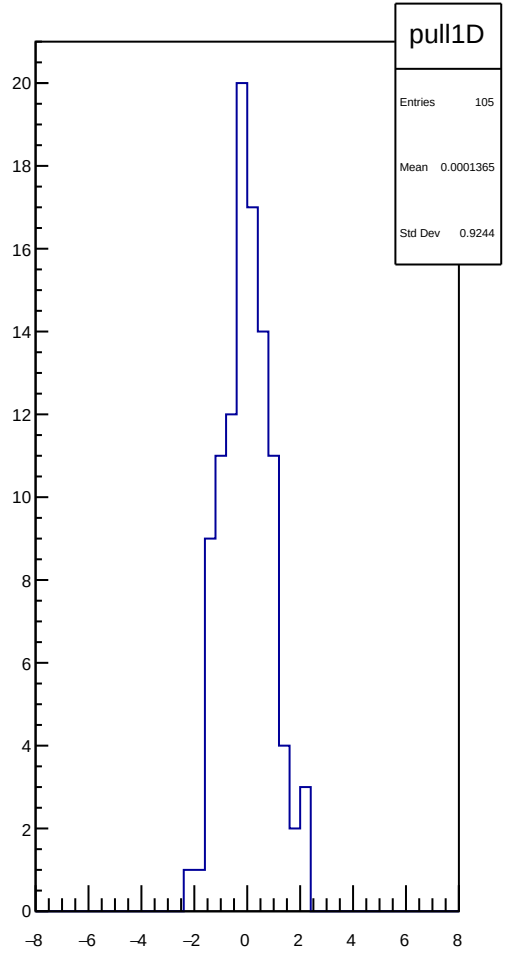

cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 1.202e+06 / 104
p0 1498 ± 1.631
18000
16000
14000
12000
10000
8000
6000
4000
2000

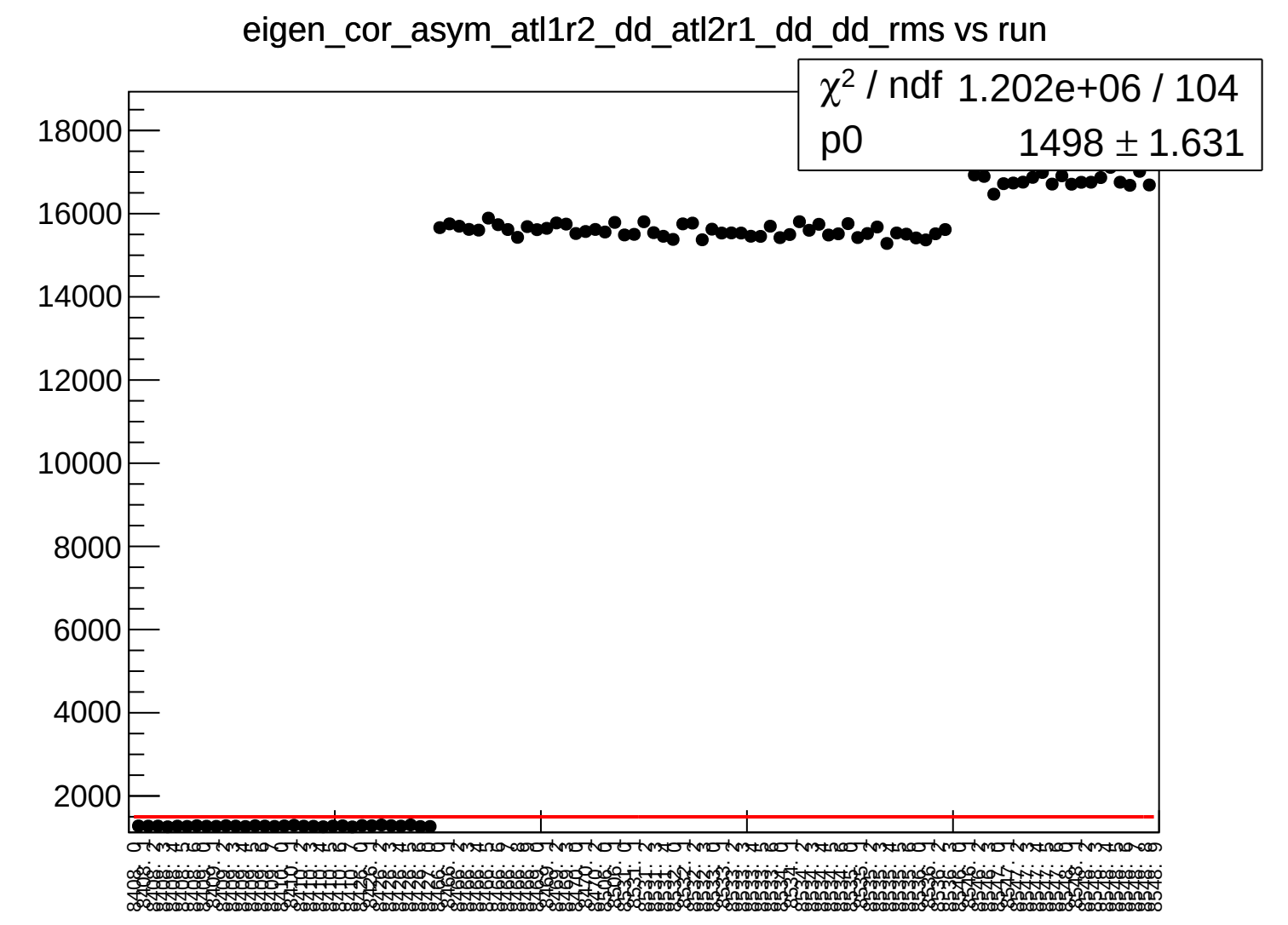

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_mean vs run
×10^3
χ² / ndf 104 / 104
p0 −571.2 ± 892.9
200
150
100
50
0
−50
−100
−150
pull
Entries 105
Mean 37.99
Std Dev 31.11
2
1
0
−1
−2

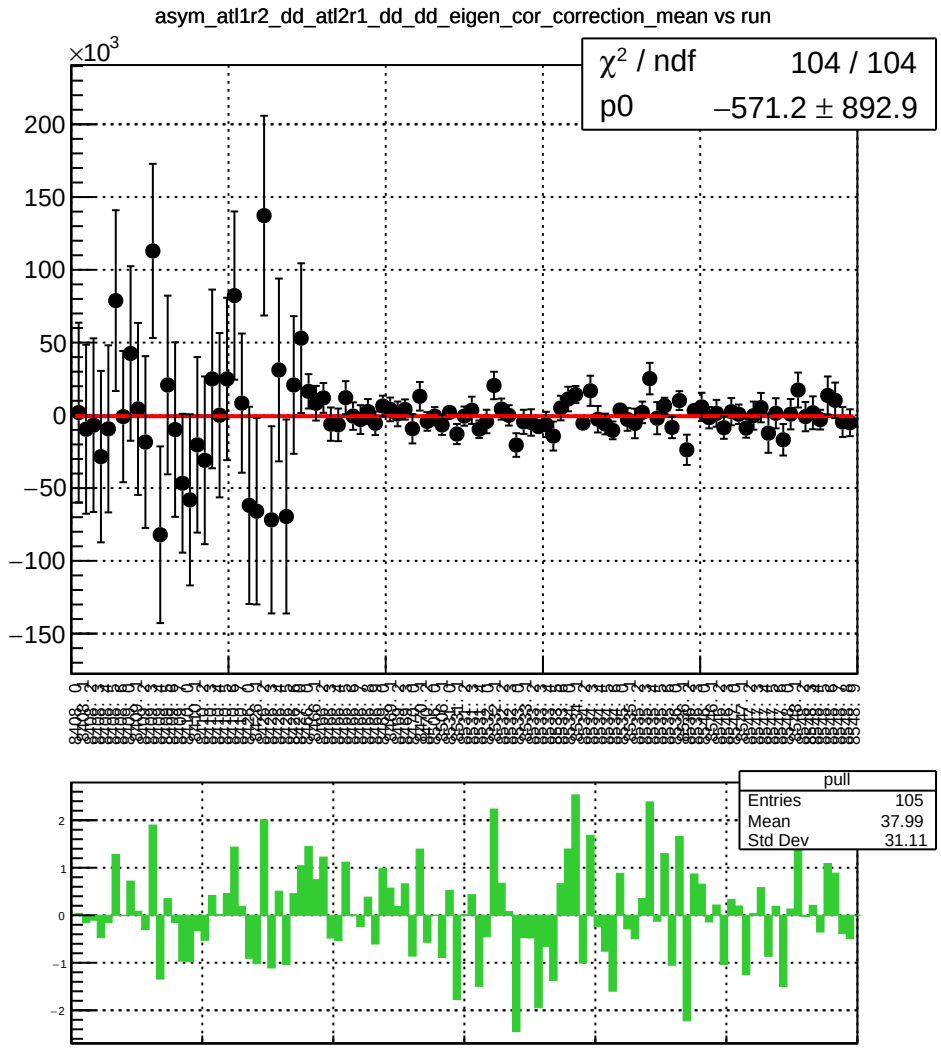

pull1D
Entries 105
Mean 0.04431
Std Dev 0.9943
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

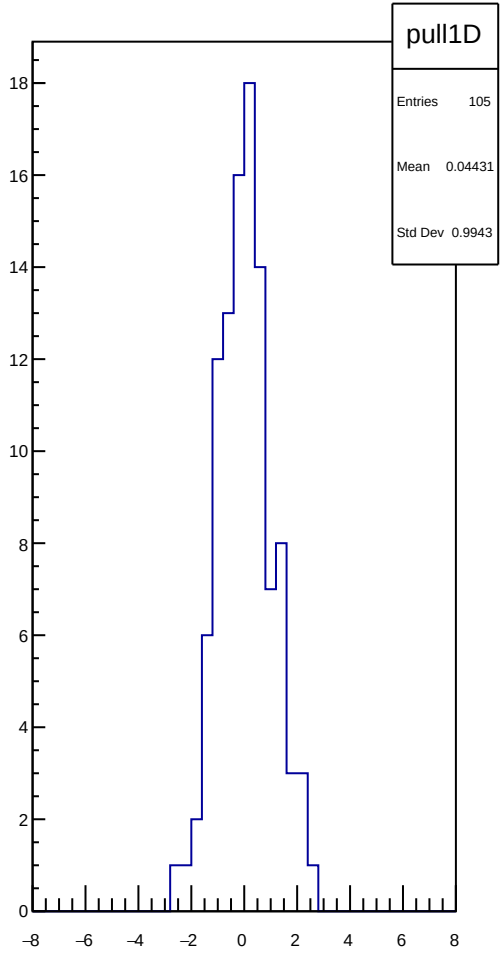

asym_atl1r2_dd_atl2r1_dd_dd_cor_correction_rms vs run
χ² / ndf 5.627e+05 / 104
p0 769 ± 0.6314
7000
6000
5000
4000
3000
2000
1000

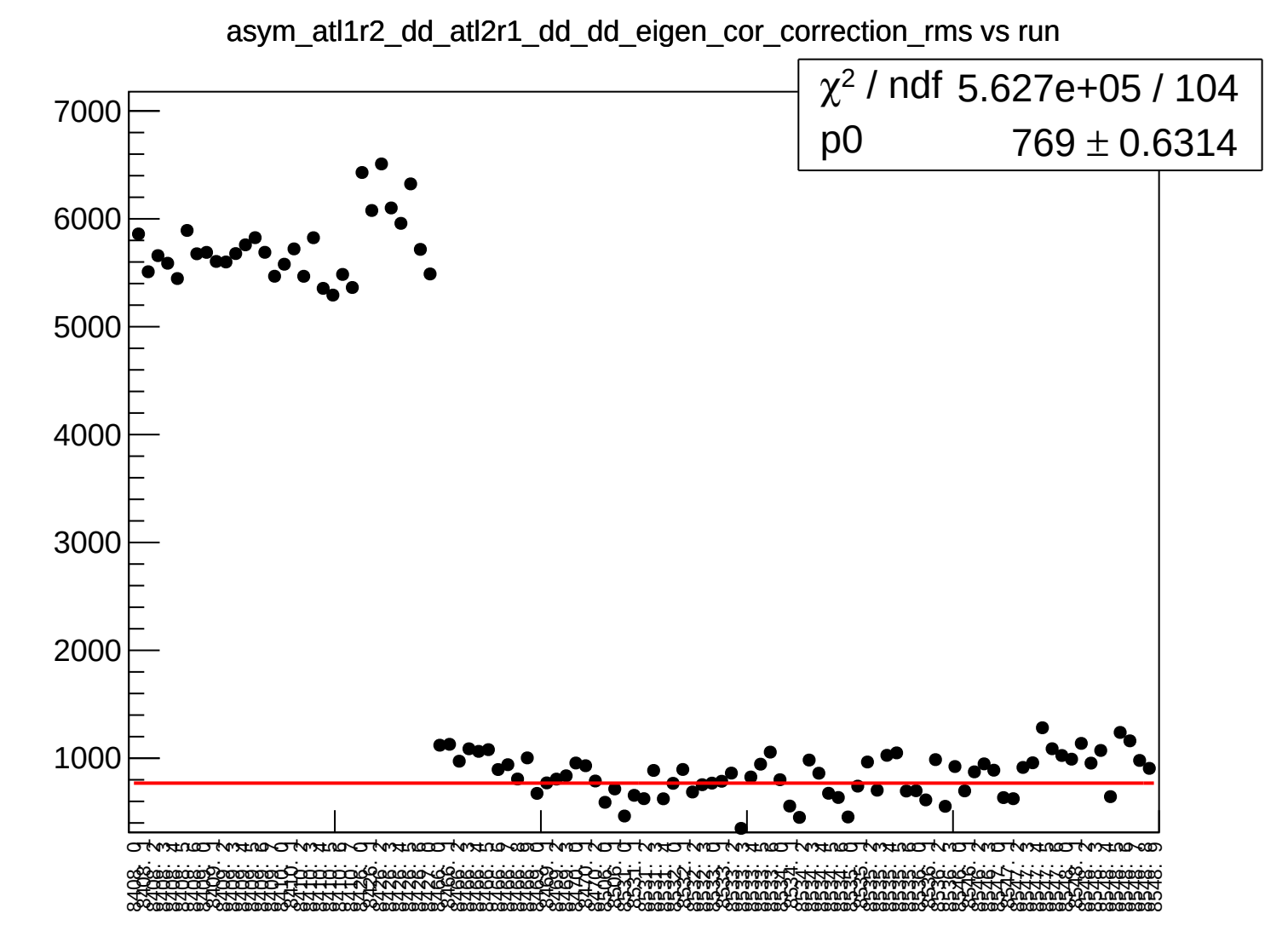

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
×10^3
χ² / ndf 89.71 / 104
p0 941.3 ± 2307
600
400
200
0
−200
−400
−600
pull
Entries 105
Mean −1.516e+04
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

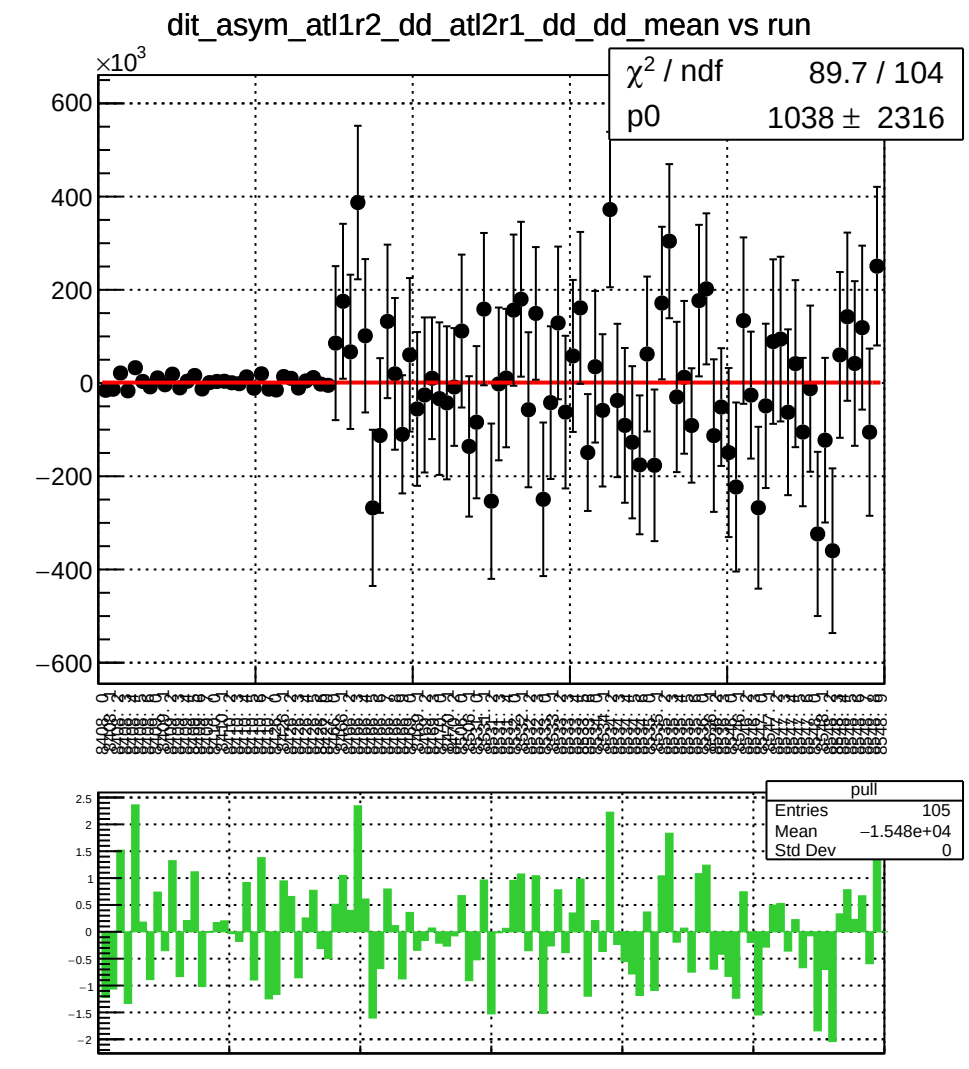

pull1D
Entries 105
Mean 0.0001365
Std Dev 0.9244
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

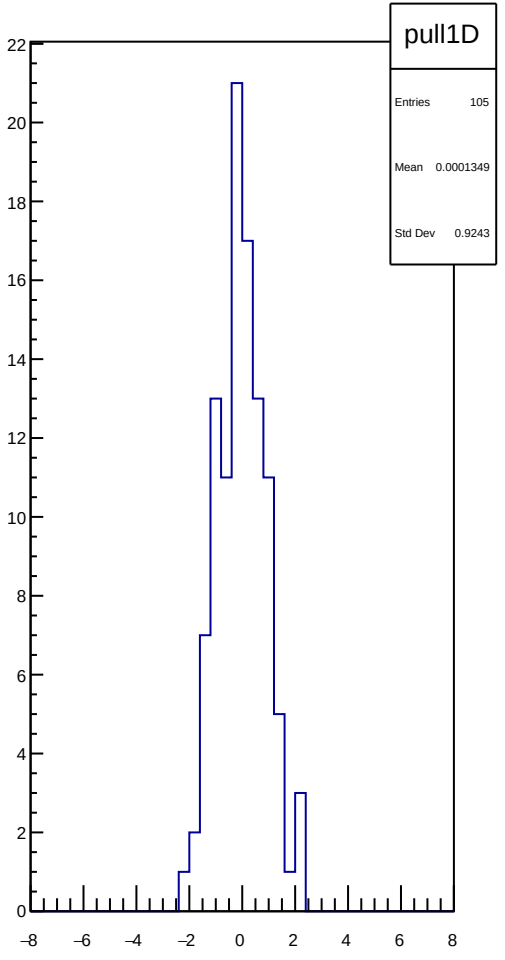

eigen_cor_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 1.202e+06 / 104
p0 1498 ± 1.631
18000
16000
14000
12000
10000
8000
6000
4000
2000

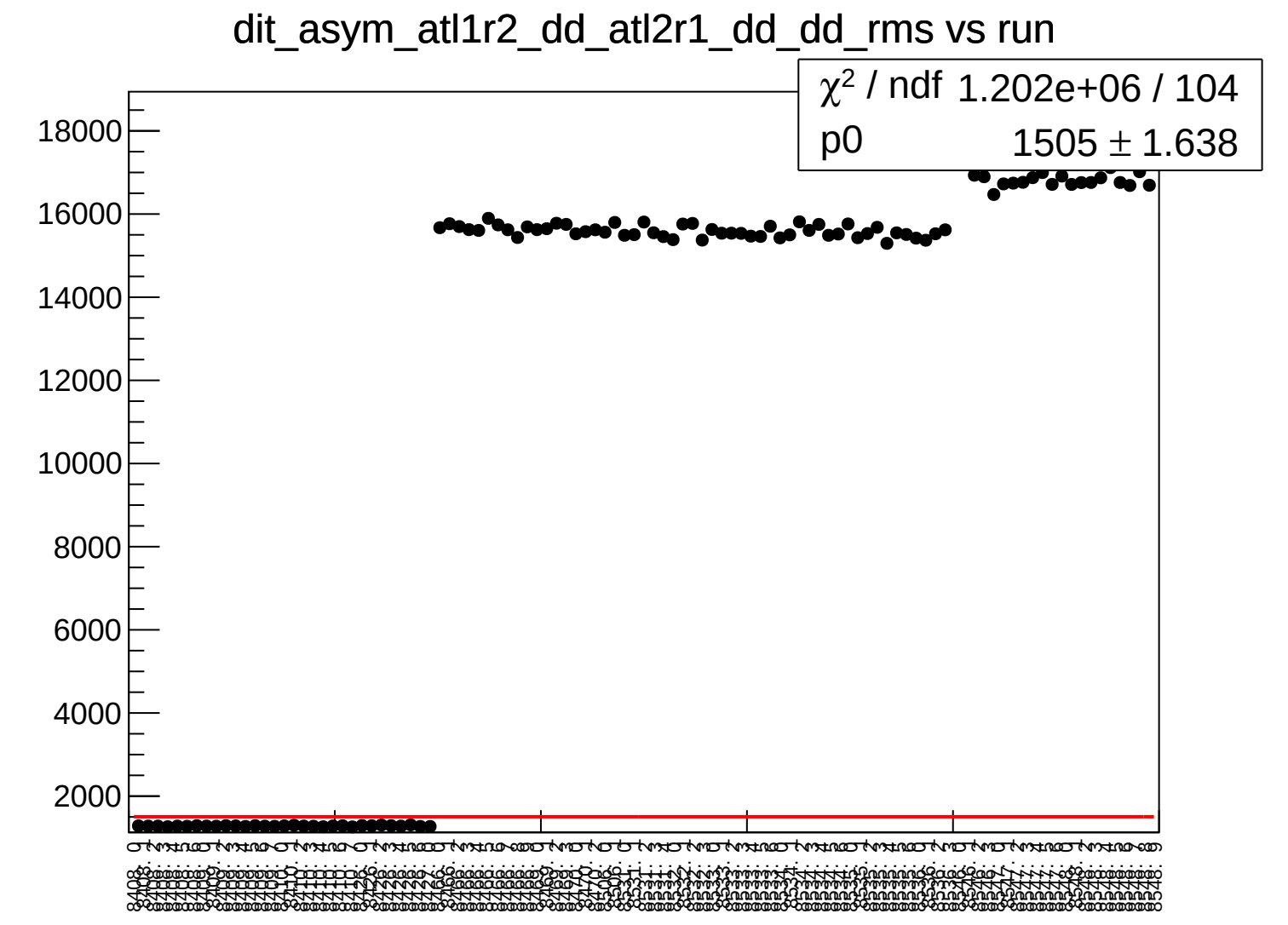

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 104 / 104
p0 −571.2 ± 892.9
200
150
100
50
0
−50
−100
−150
pull
Entries 105
Mean 37.99
Std Dev 31.11
2
1
0
−1
−2

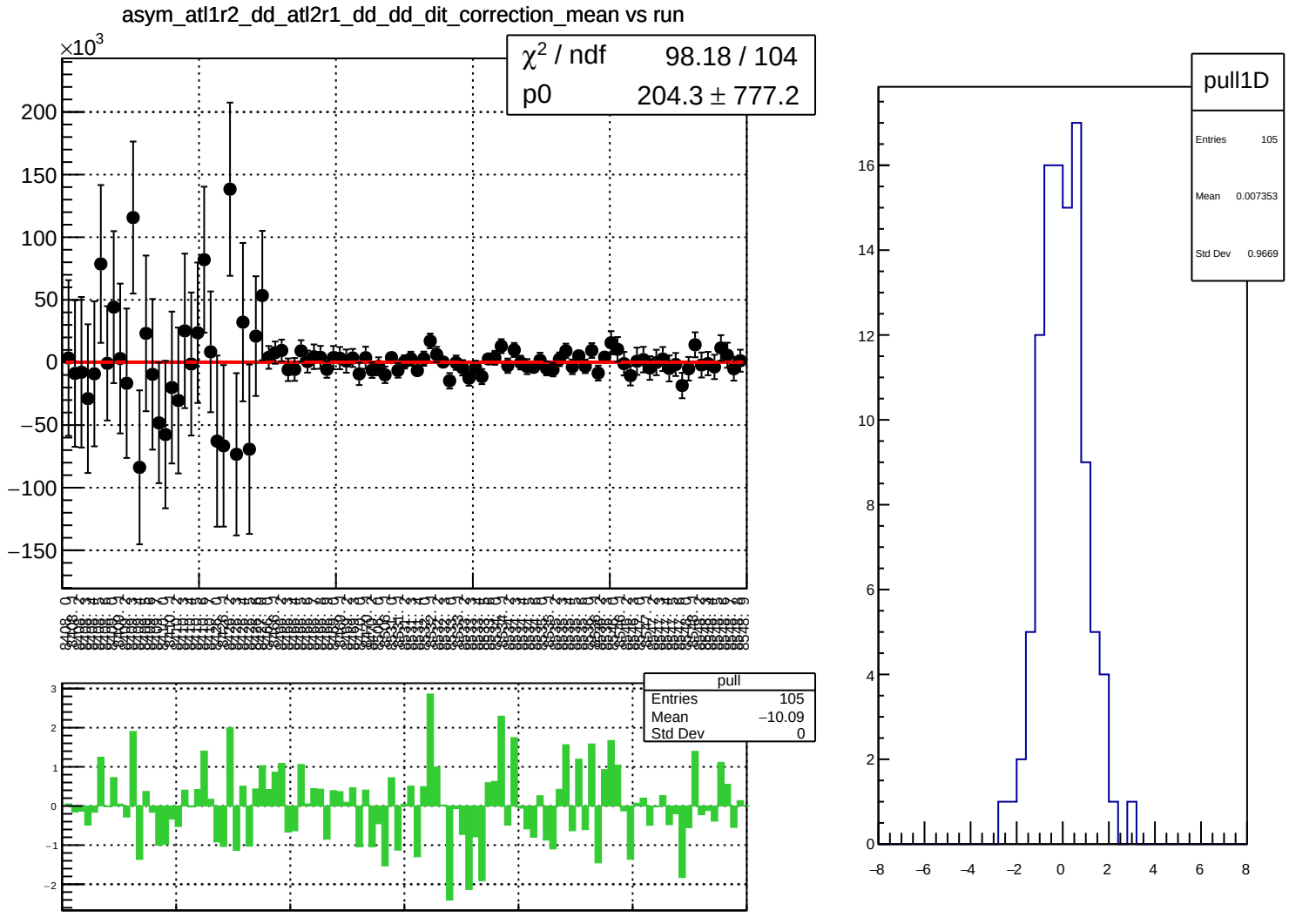

pull1D
Entries 105
Mean 0.04431
Std Dev 0.9943
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

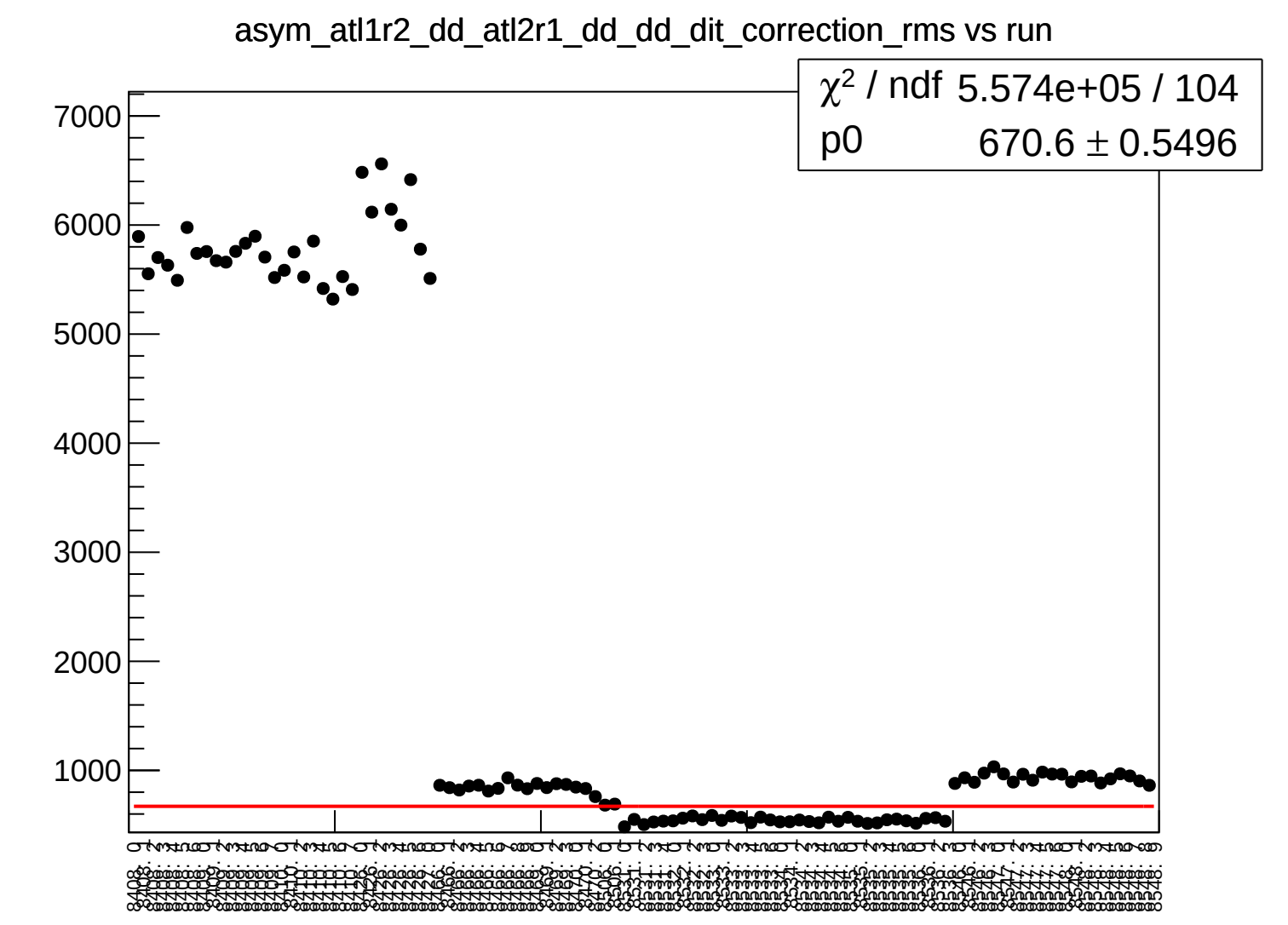

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 5.627e+05 / 104
p0 769 ± 0.6314
7000
6000
5000
4000
3000
2000
1000

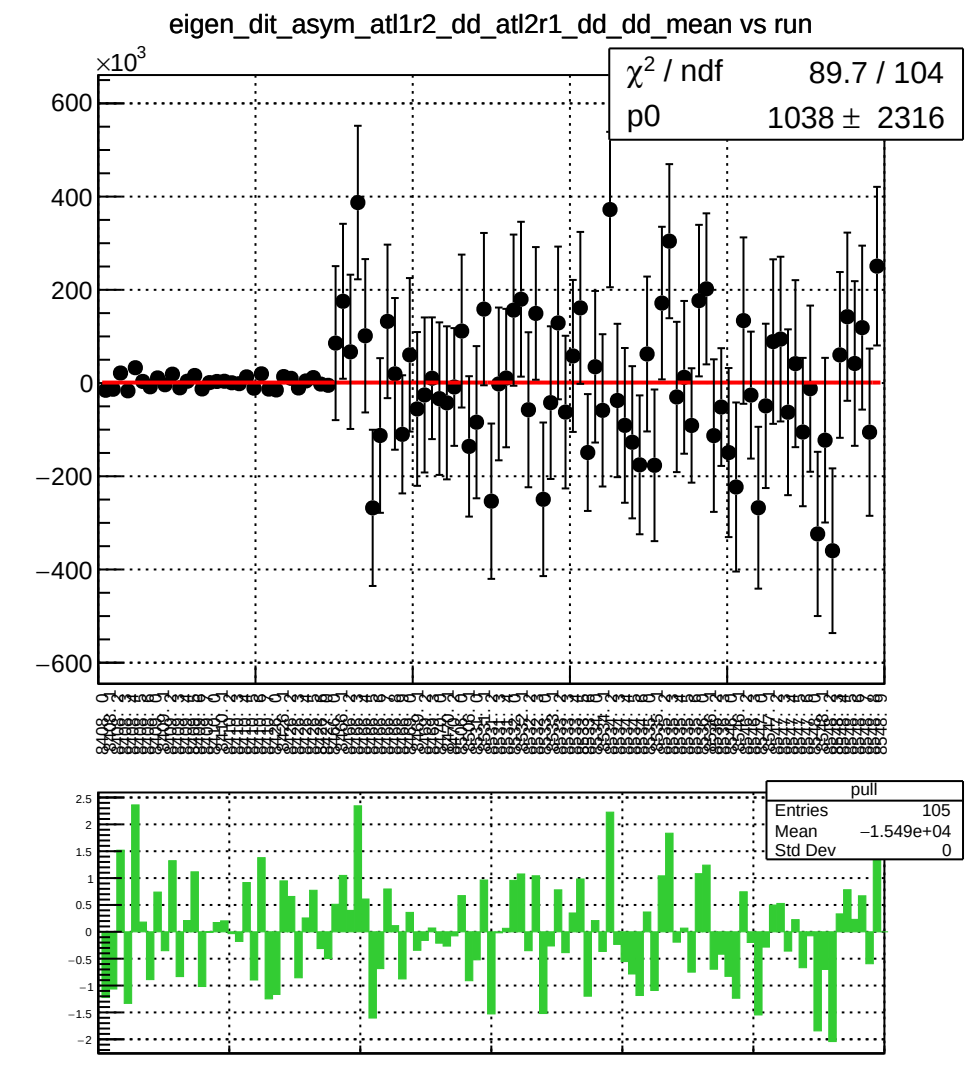

dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
×10^3
χ^2 / ndf 89.7 / 104
p0 1038 ± 2316
600
400
200
0
−200
−400
−600
pull
Entries 105
Mean −1.548e+04
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

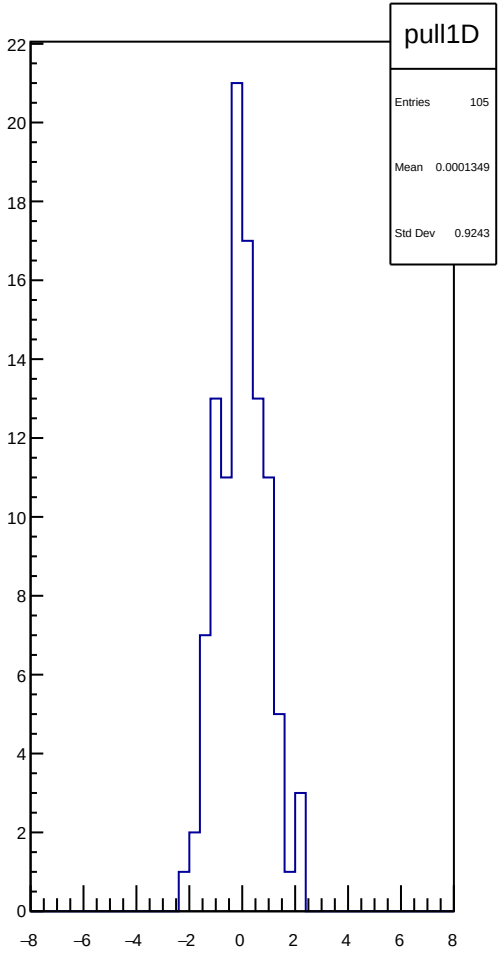

pull1D
Entries 105
Mean 0.0001349
Std Dev 0.9243
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

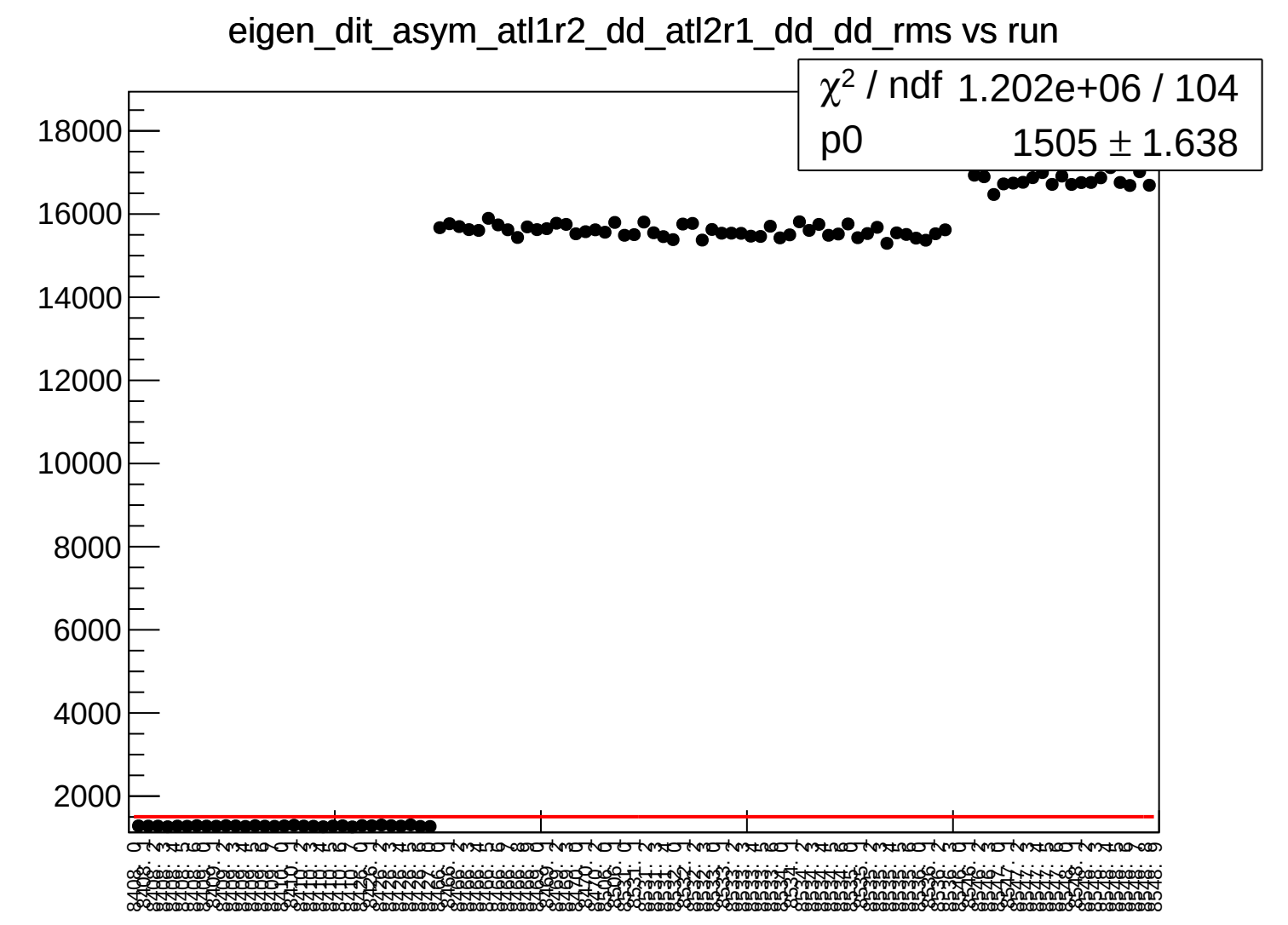

dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 1.202e+06 / 104
p0 1505 ± 1.638
18000
16000
14000
12000
10000
8000
6000
4000
2000

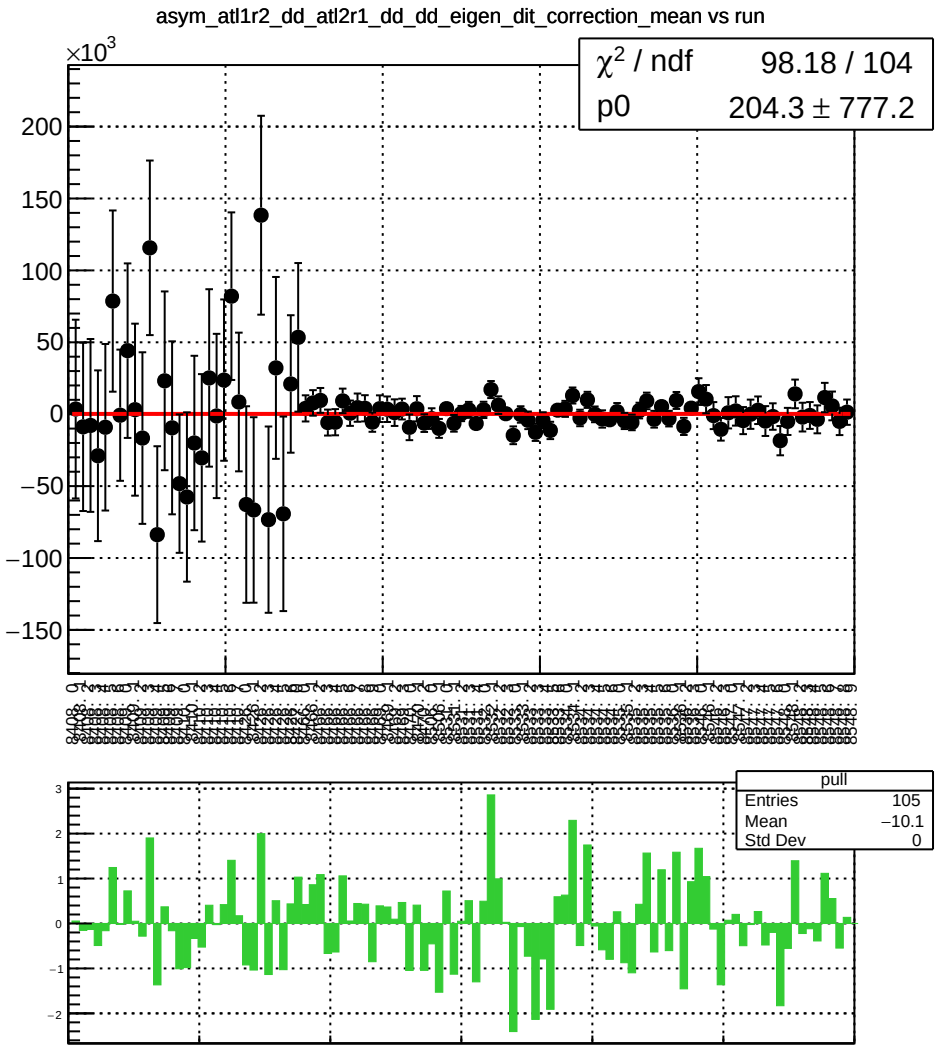

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 98.18 / 104
p0 204.3 ± 777.2
200
150
100
50
0
−50
−100
−150
pull
Entries 105
Mean −10.09
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.007353
Std Dev 0.9669
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

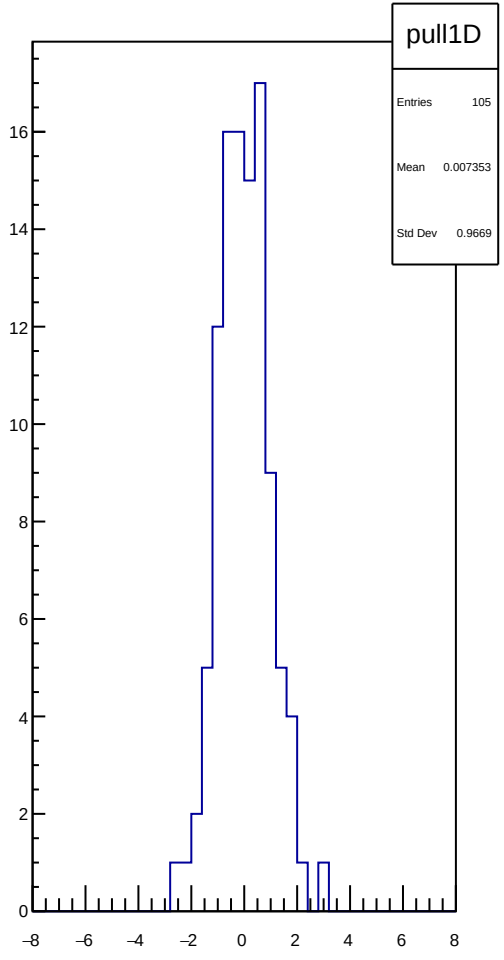

asym_atl1r2_dd_atl2r1_dd_dd_dit_correction_rms vs run
χ² / ndf 5.574e+05 / 104
p0 670.6 ± 0.5496
7000
6000
5000
4000
3000
2000
1000

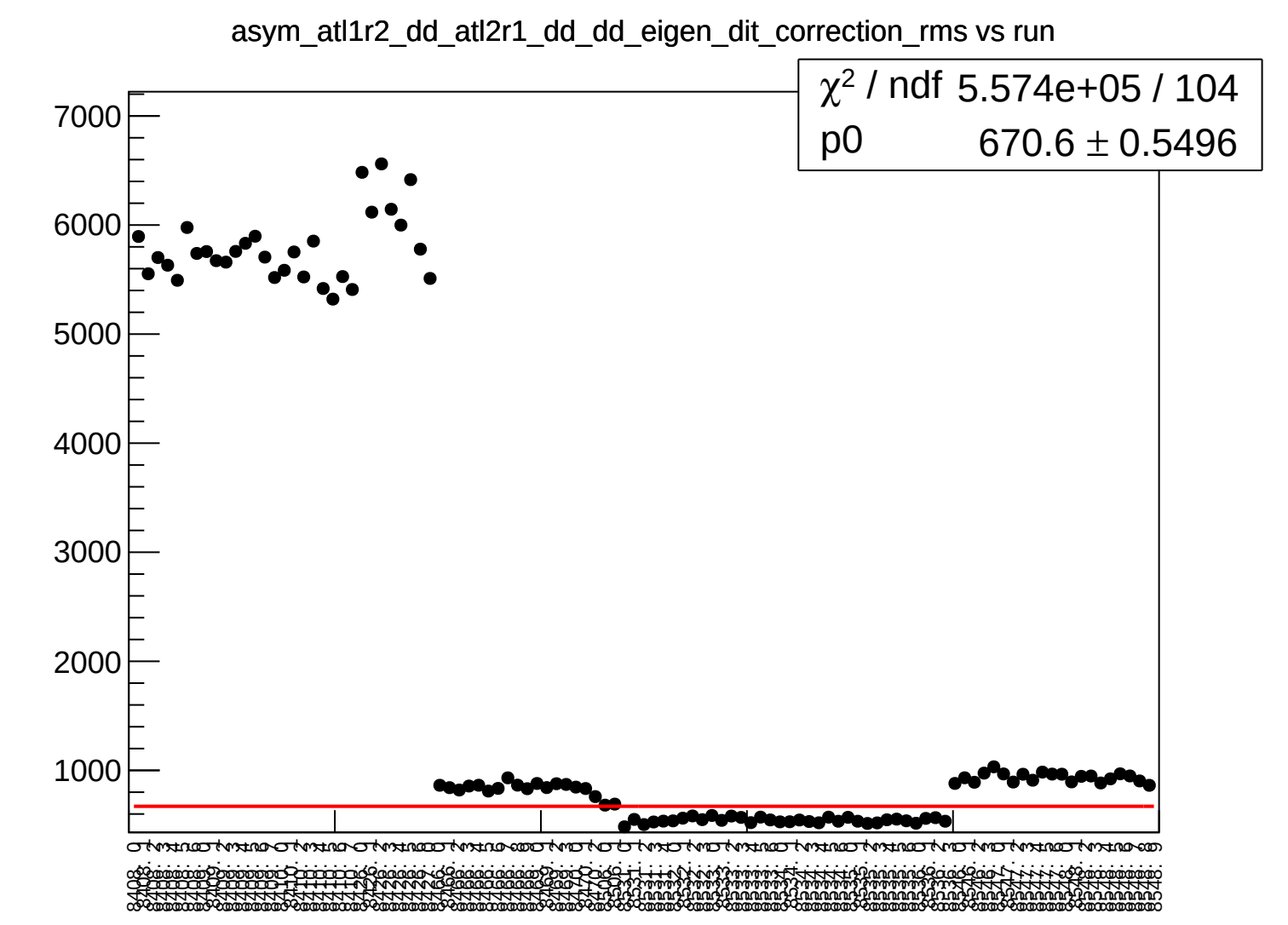

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
×10^3
χ^2 / ndf 89.7 / 104
p0 1038 ± 2316
pull
Entries 105
Mean −1.549e+04
Std Dev 0

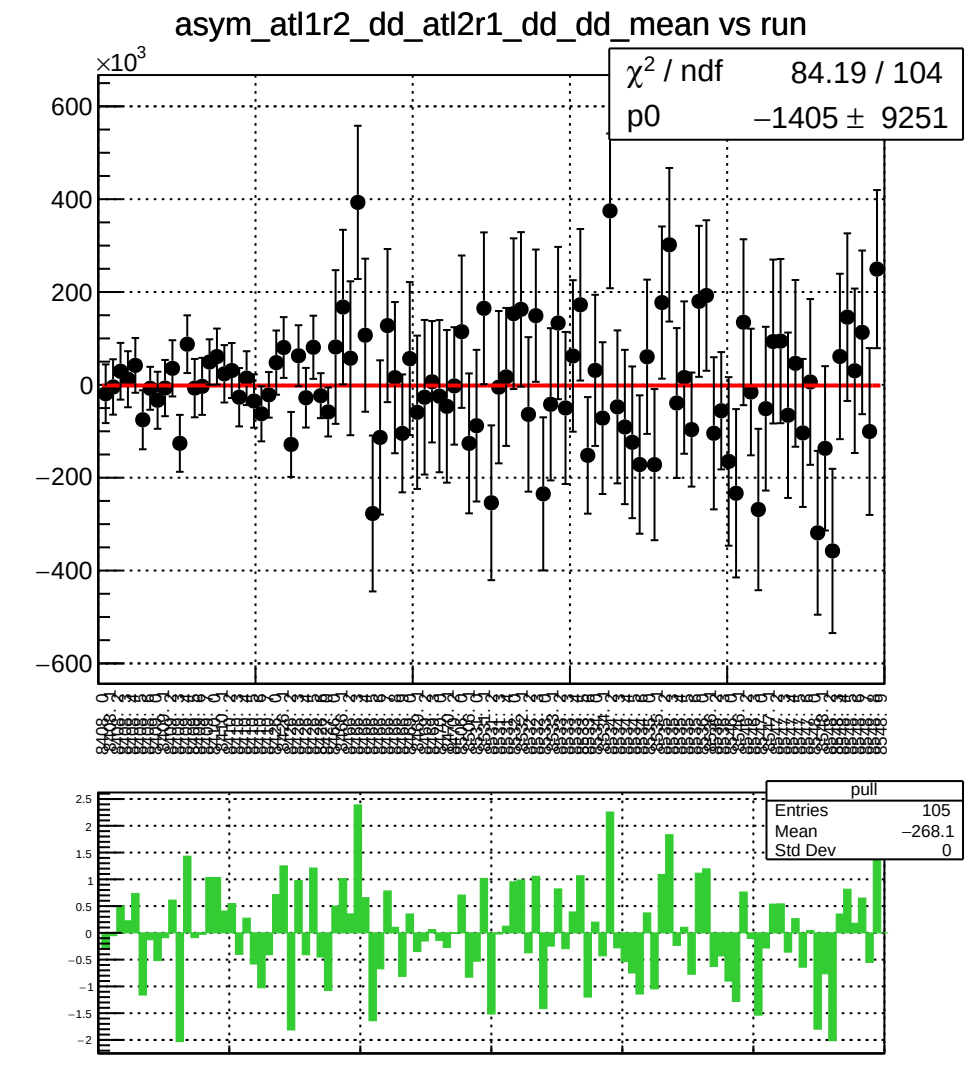

pull1D
Entries 105
Mean 0.0001349
Std Dev 0.9243

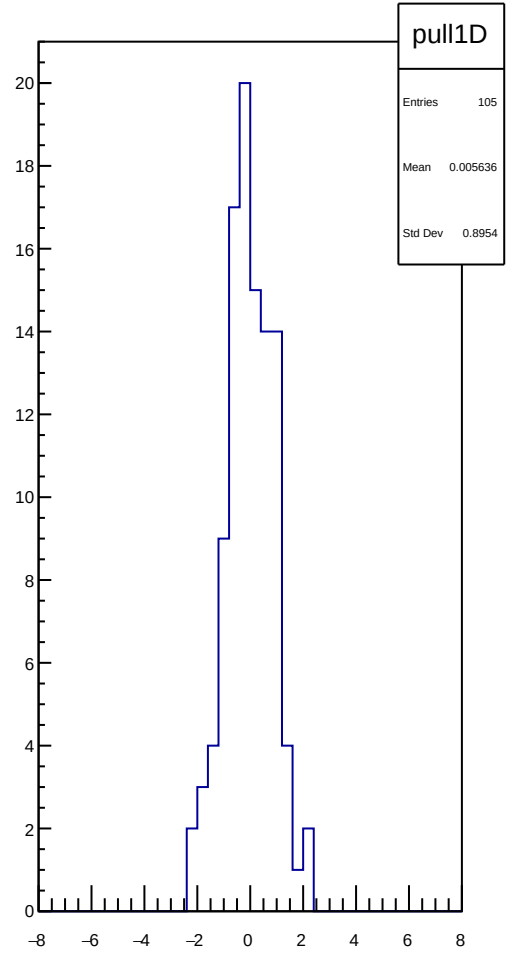

eigen_dit_asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 1.202e+06 / 104
p0 1505 ± 1.638
18000
16000
14000
12000
10000
8000
6000
4000
2000

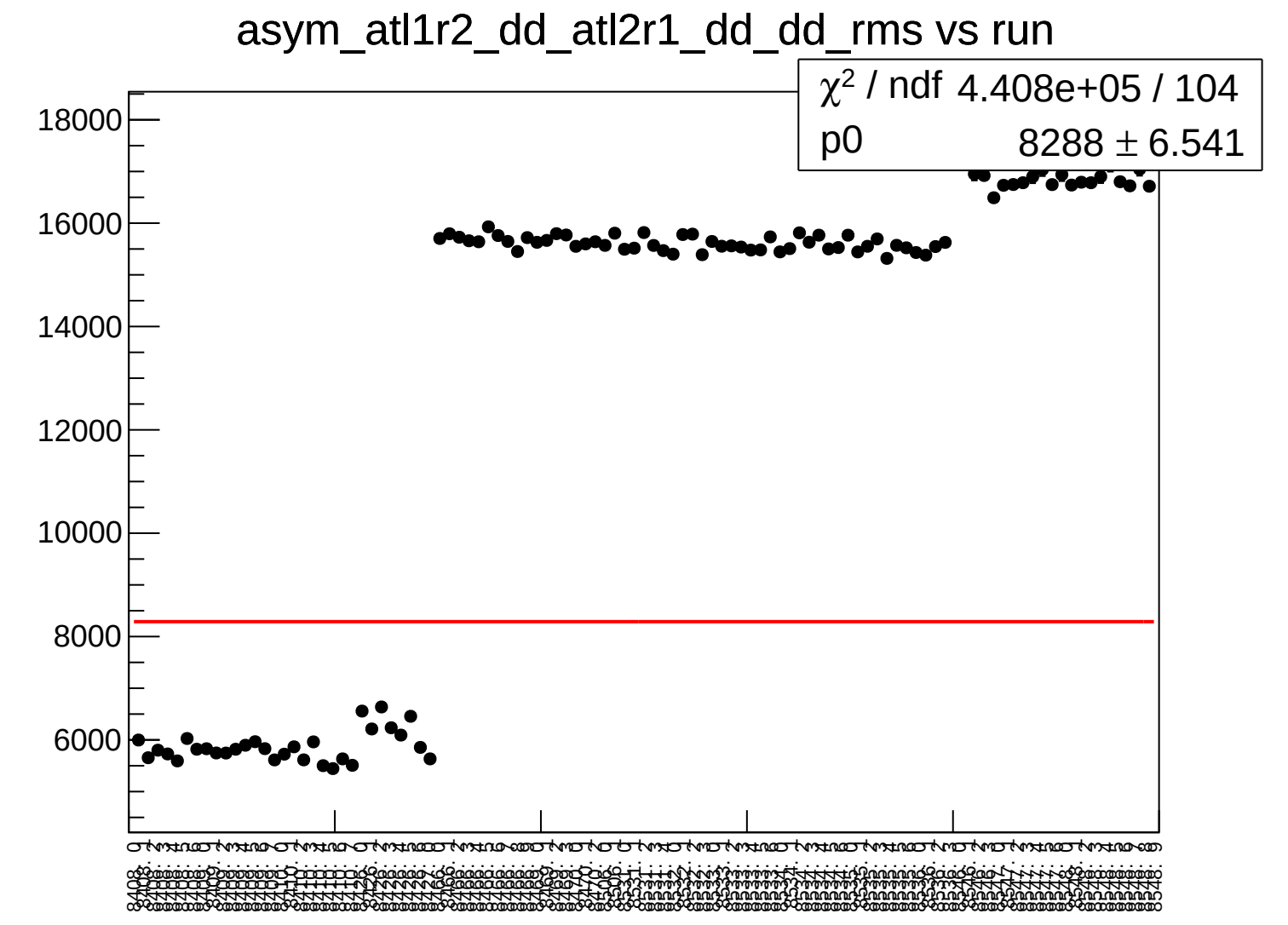

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 98.18 / 104
p0 204.3 ± 777.2
200
150
100
50
0
−50
−100
−150
pull
Entries 105
Mean −10.1
Std Dev 0
3
2
1
0
−1
−2

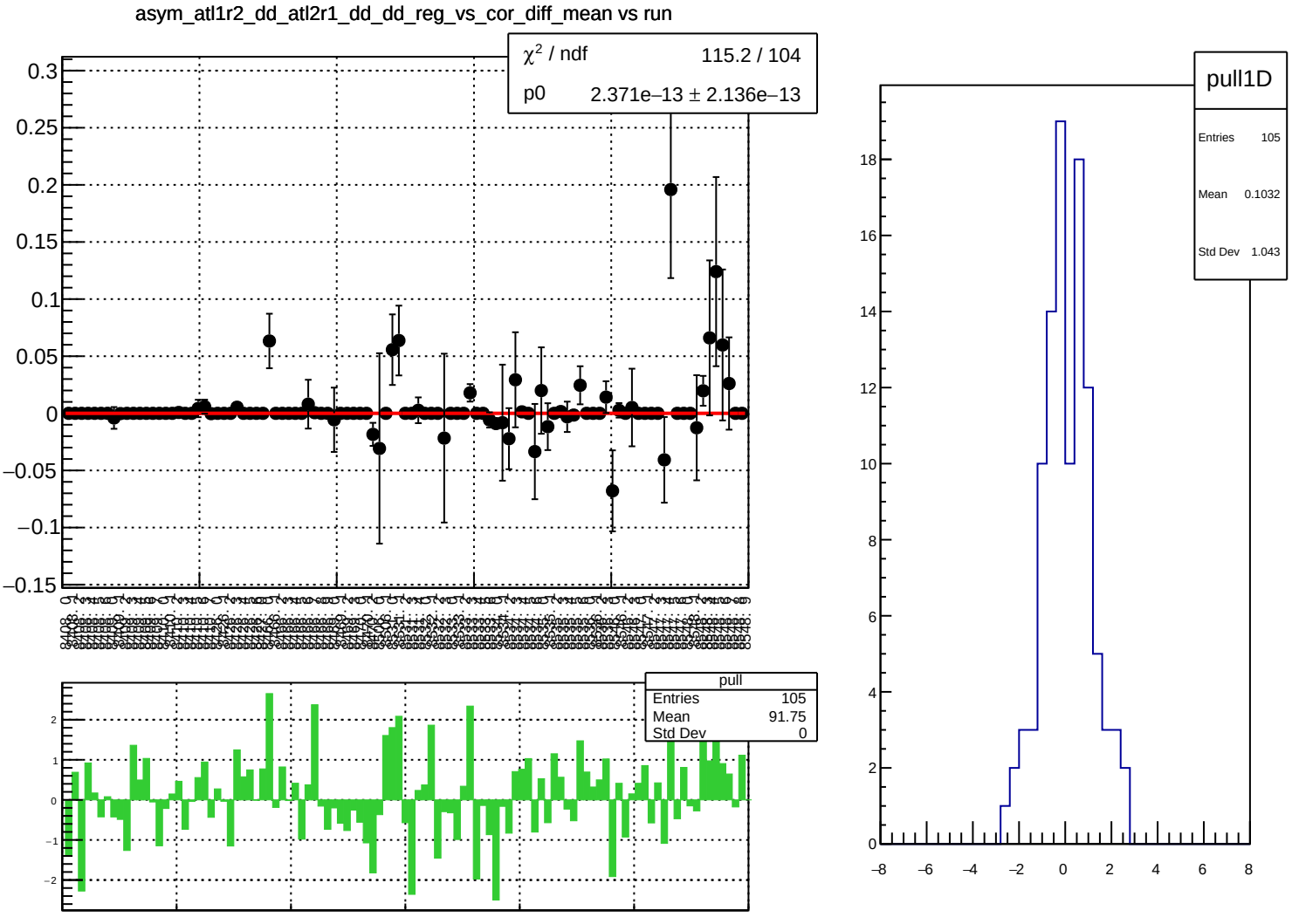

pull1D
Entries 105
Mean 0.007353
Std Dev 0.9669
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

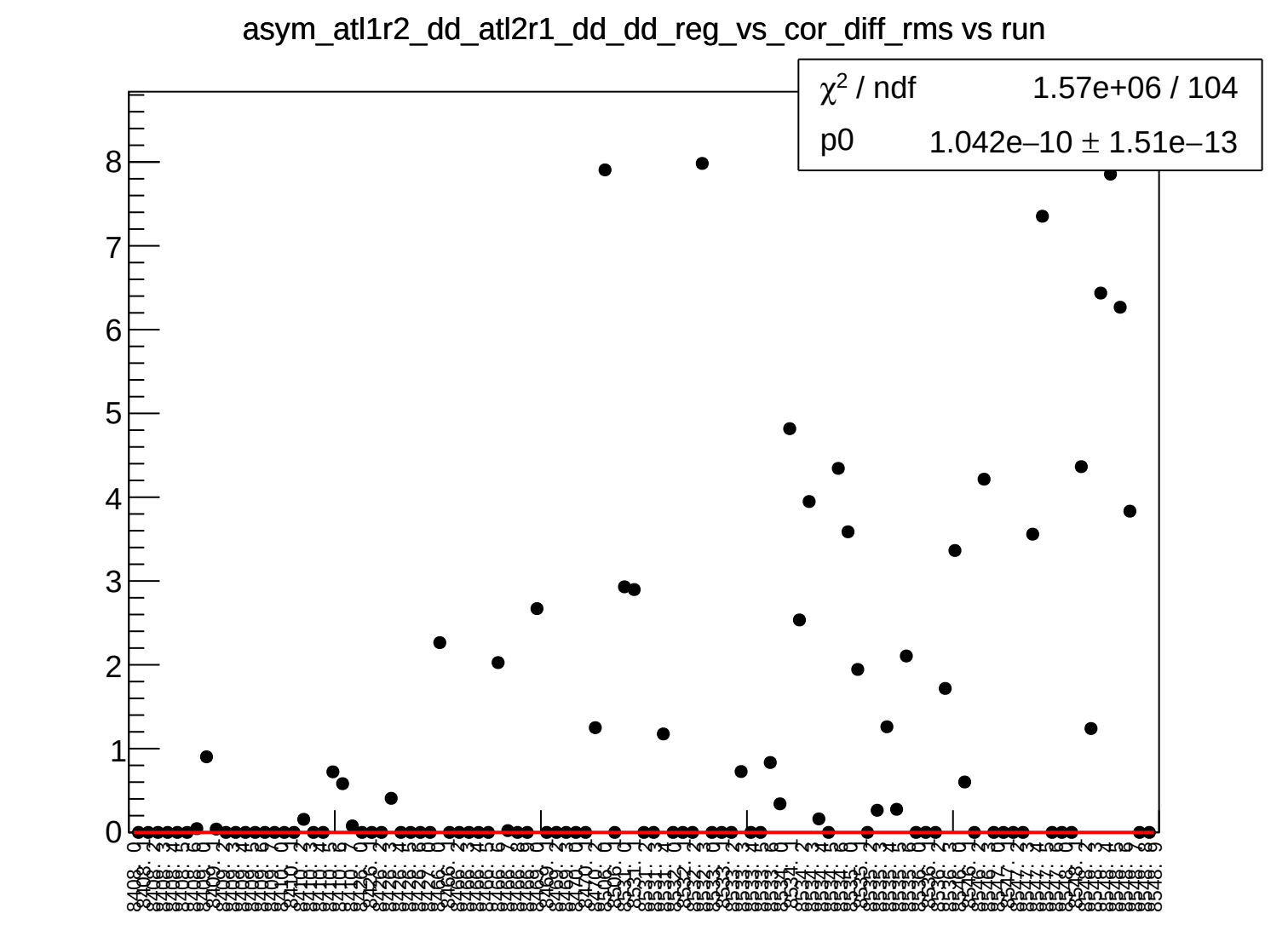

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 5.574e+05 / 104
p0 670.6 ± 0.5496
7000
6000
5000
4000
3000
2000
1000

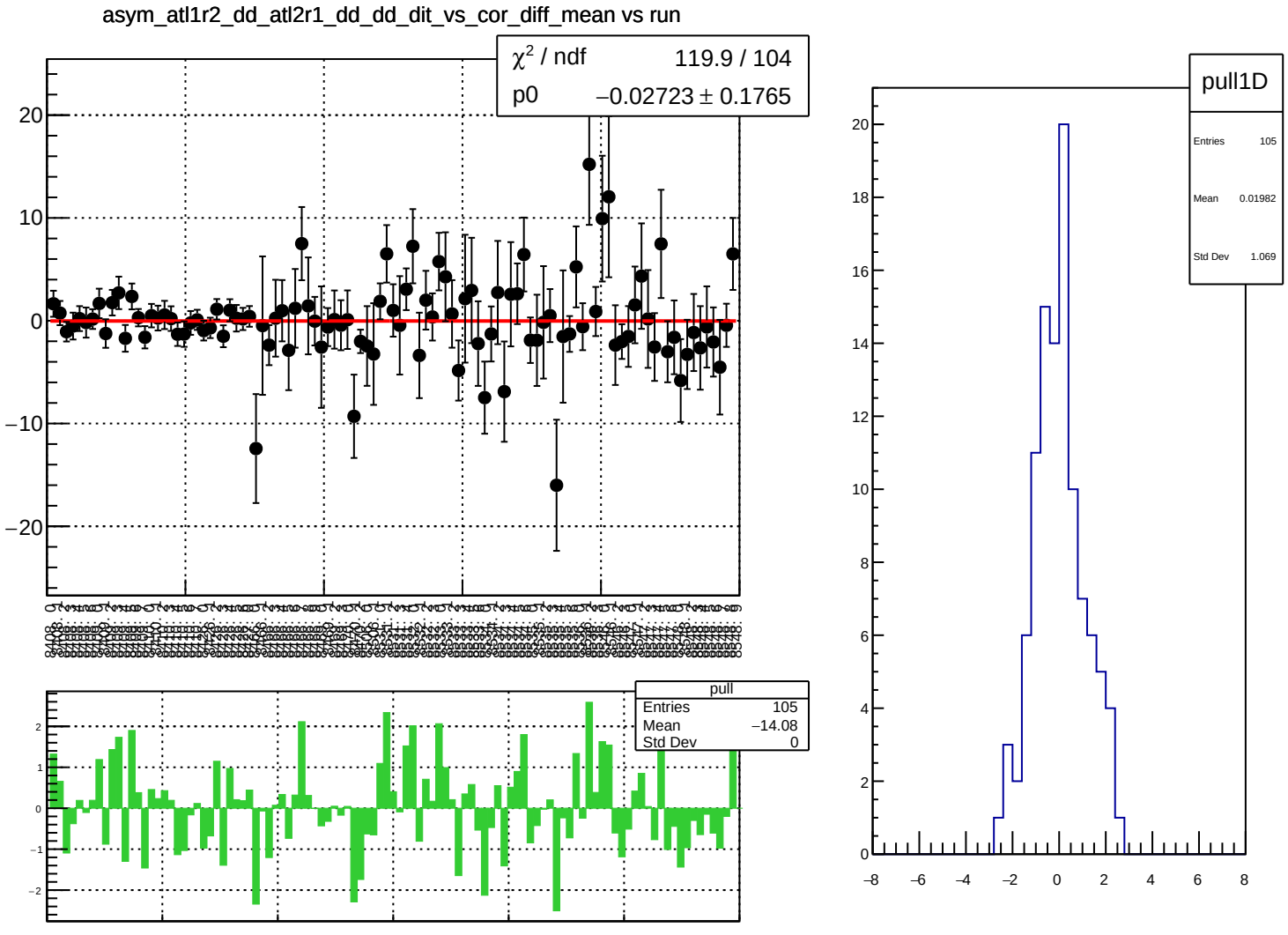

asym_atl1r2_dd_atl2r1_dd_dd_mean vs run
×10^3
600
400
200
0
−200
−400
−600
χ² / ndf 84.19 / 104
p0 −1405 ± 9251
pull
Entries 105
Mean −268.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

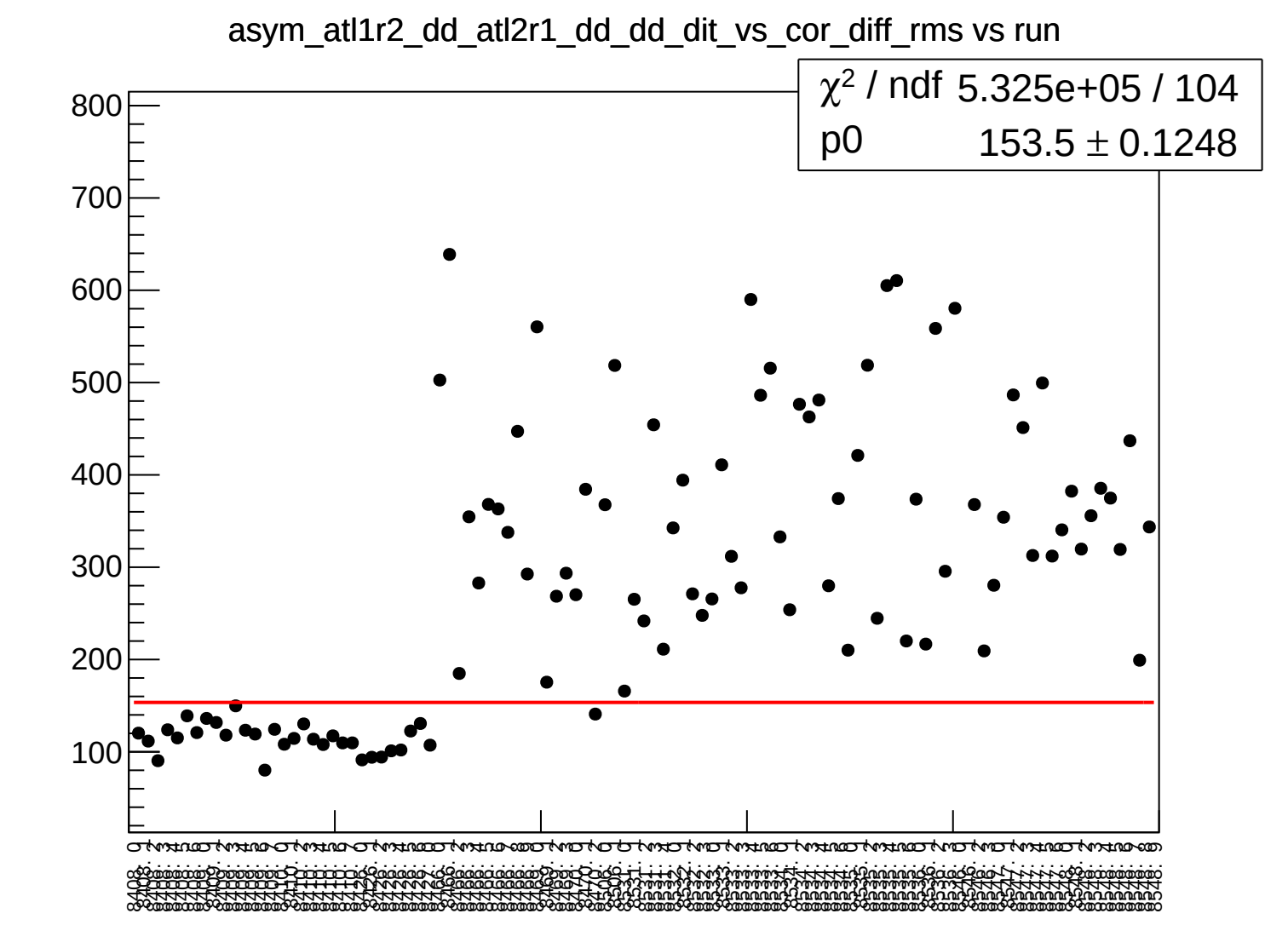

pull1D
Entries 105
Mean 0.005636
Std Dev 0.8954
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

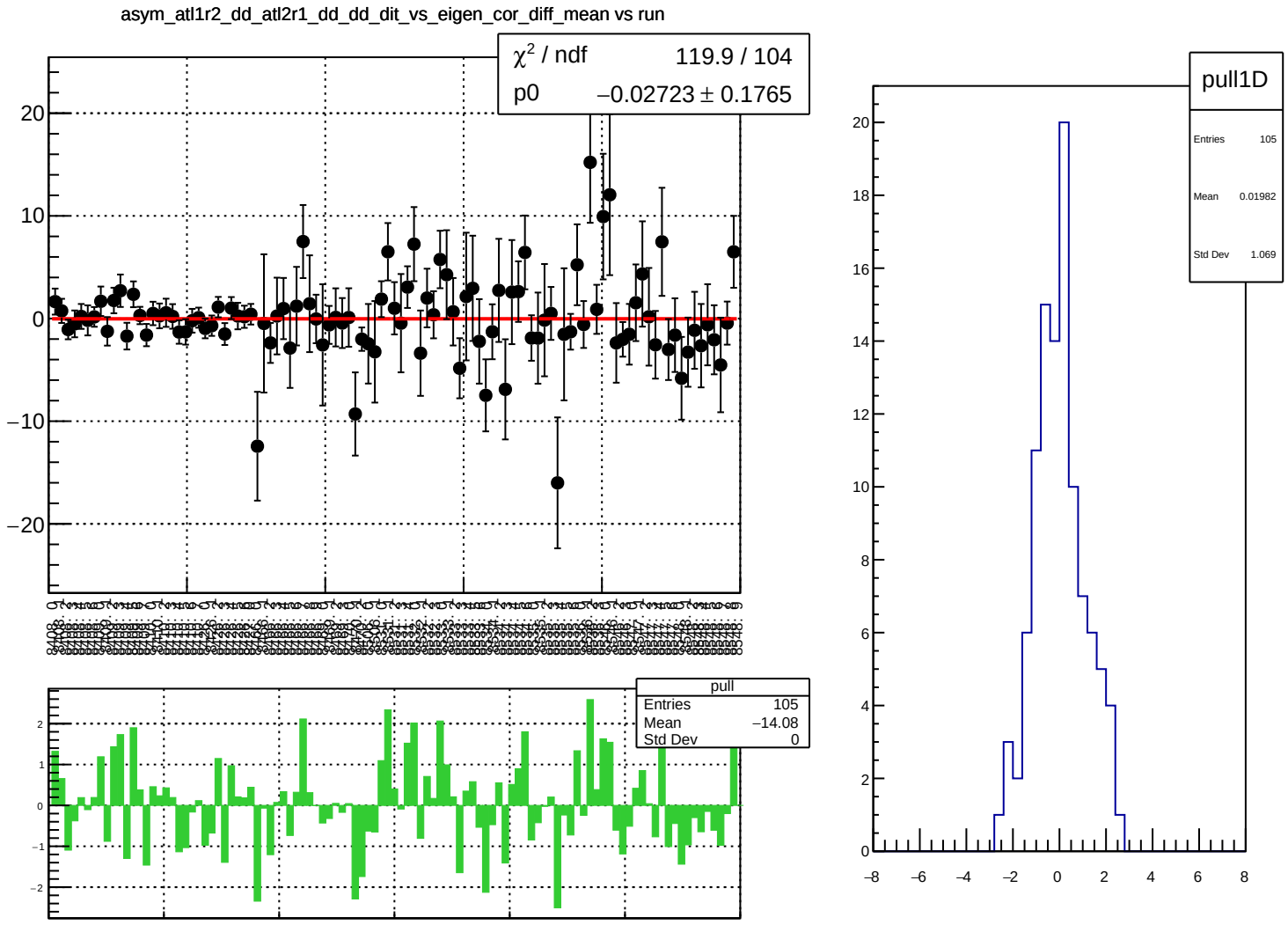

asym_atl1r2_dd_atl2r1_dd_dd_rms vs run
χ² / ndf 4.408e+05 / 104
p0 8288 ± 6.541
18000
16000
14000
12000
10000
8000
6000

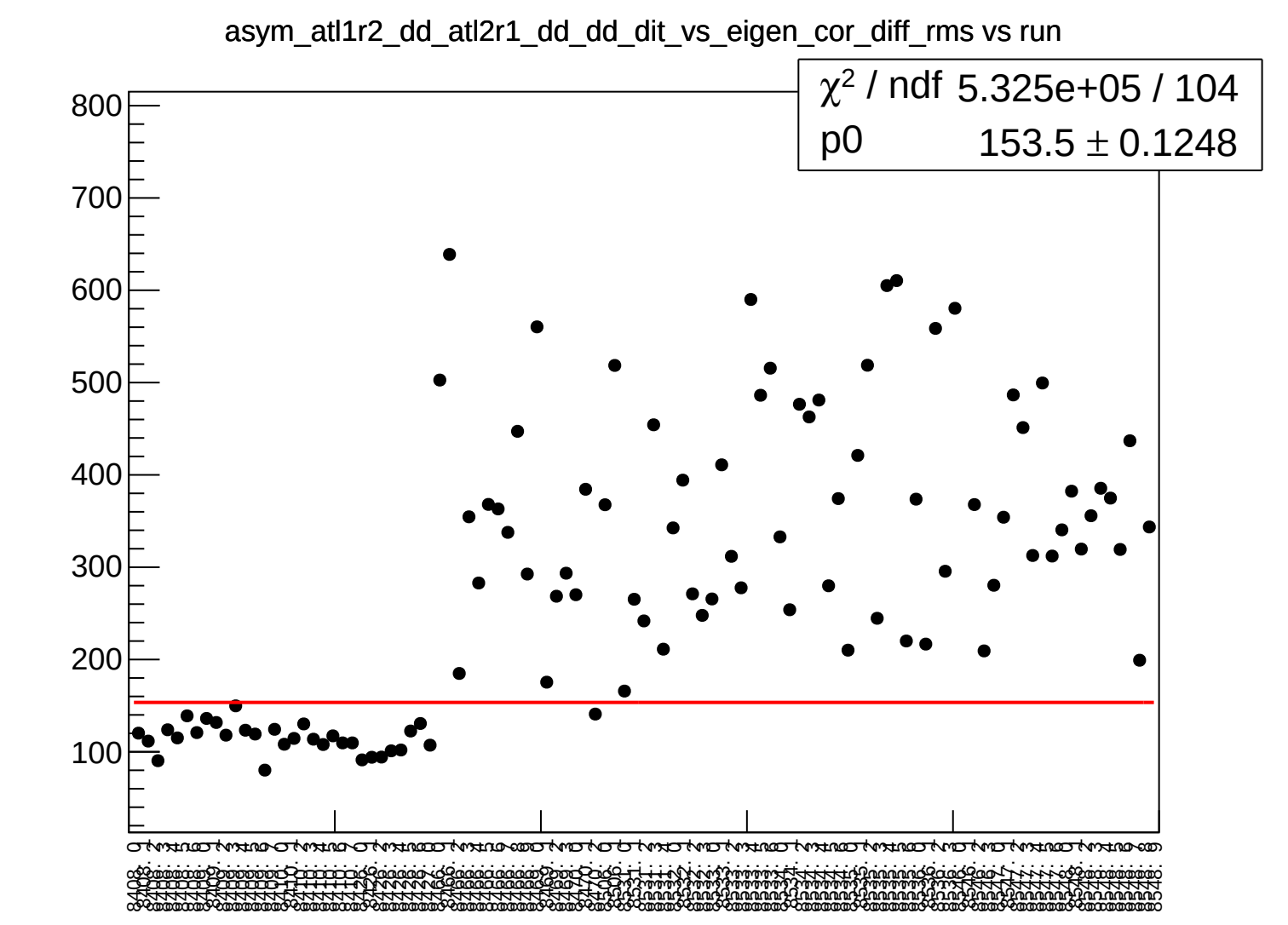

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 115.2 / 104
p0 2.371e−13 ± 2.136e−13
0.3
0.25
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 105
Mean 91.75
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.1032
Std Dev 1.043
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

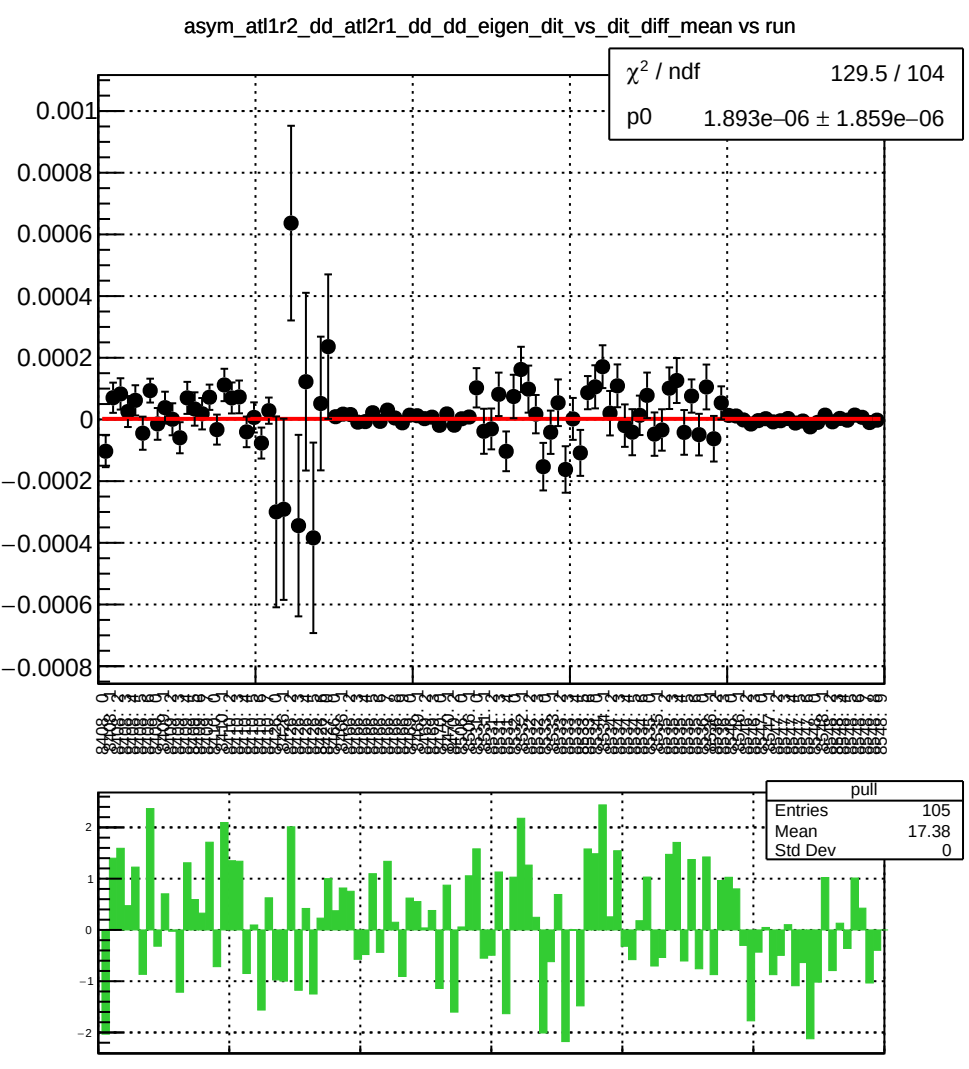

asym_atl1r2_dd_atl2r1_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.57e+06 / 104
p0 1.042e−10 ± 1.51e−13
0
1
2
3
4
5
6
7
8

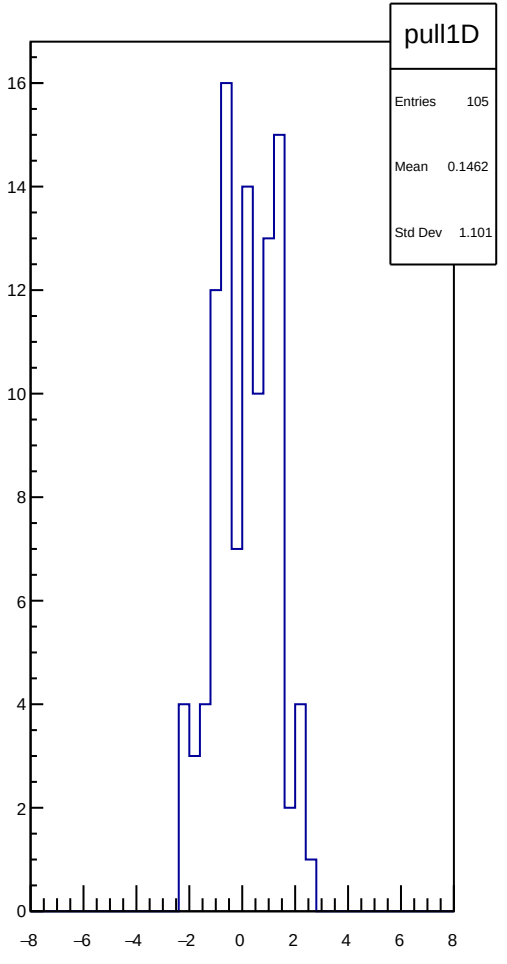

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 119.9 / 104
p0 −0.02723 ± 0.1765
20
10
0
−10
−20
pull
Entries 105
Mean −14.08
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.01982
Std Dev 1.069
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

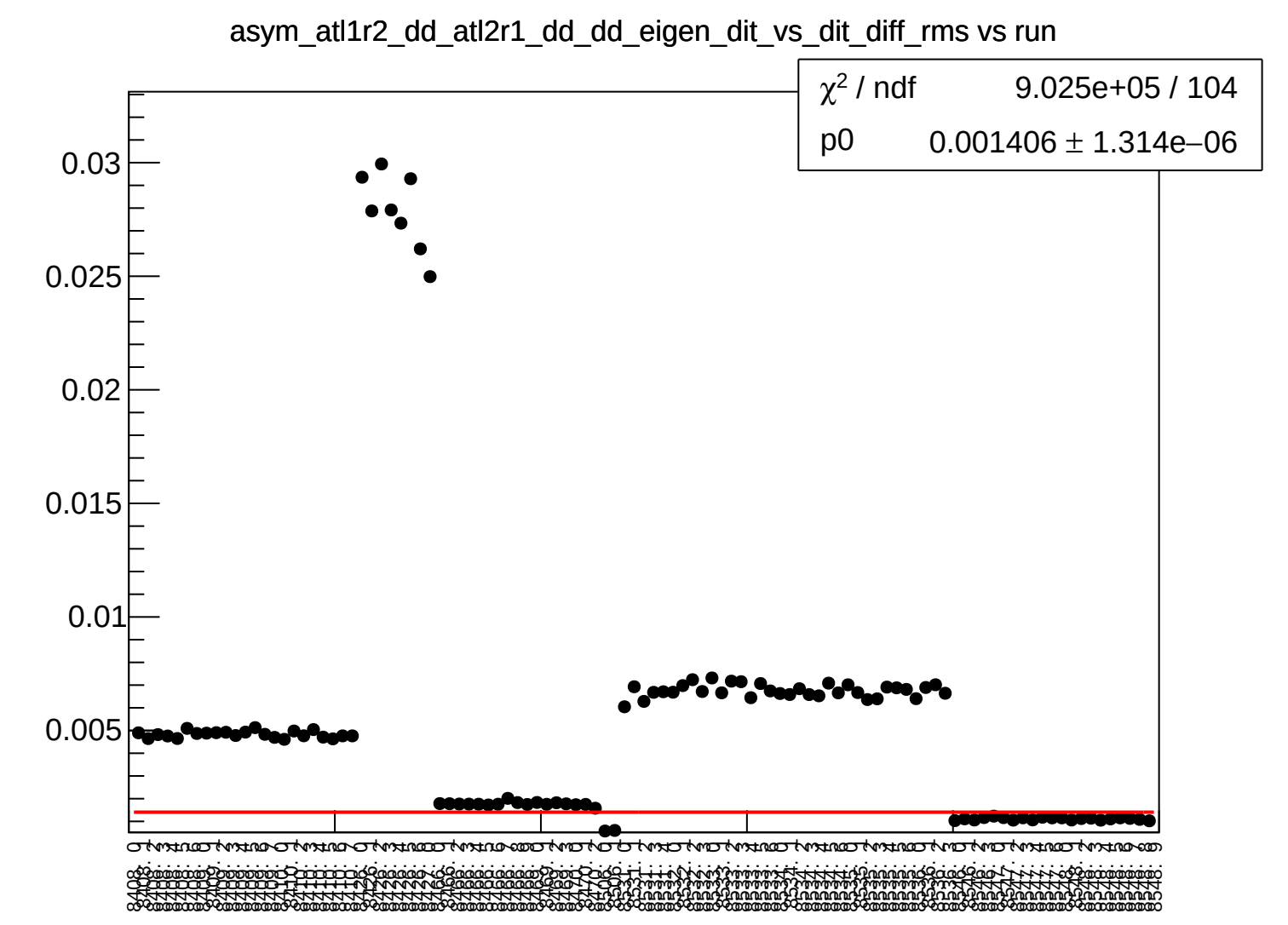

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 5.325e+05 / 104
p0 153.5 ± 0.1248
800
700
600
500
400
300
200
100

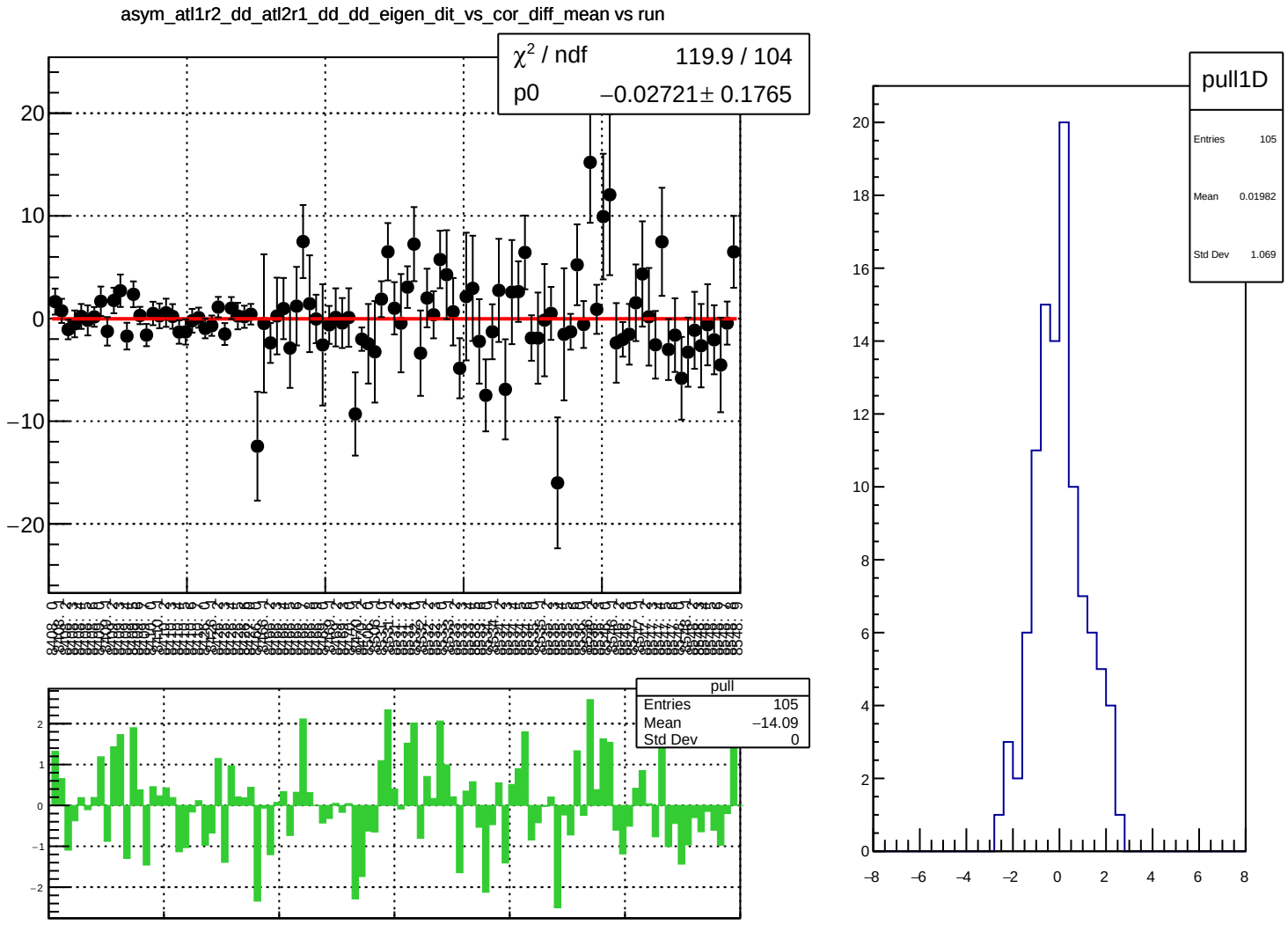

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 119.9 / 104
p0 −0.02723 ± 0.1765
20
10
0
−10
−20
pull
Entries 105
Mean −14.08
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.01982
Std Dev 1.069
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

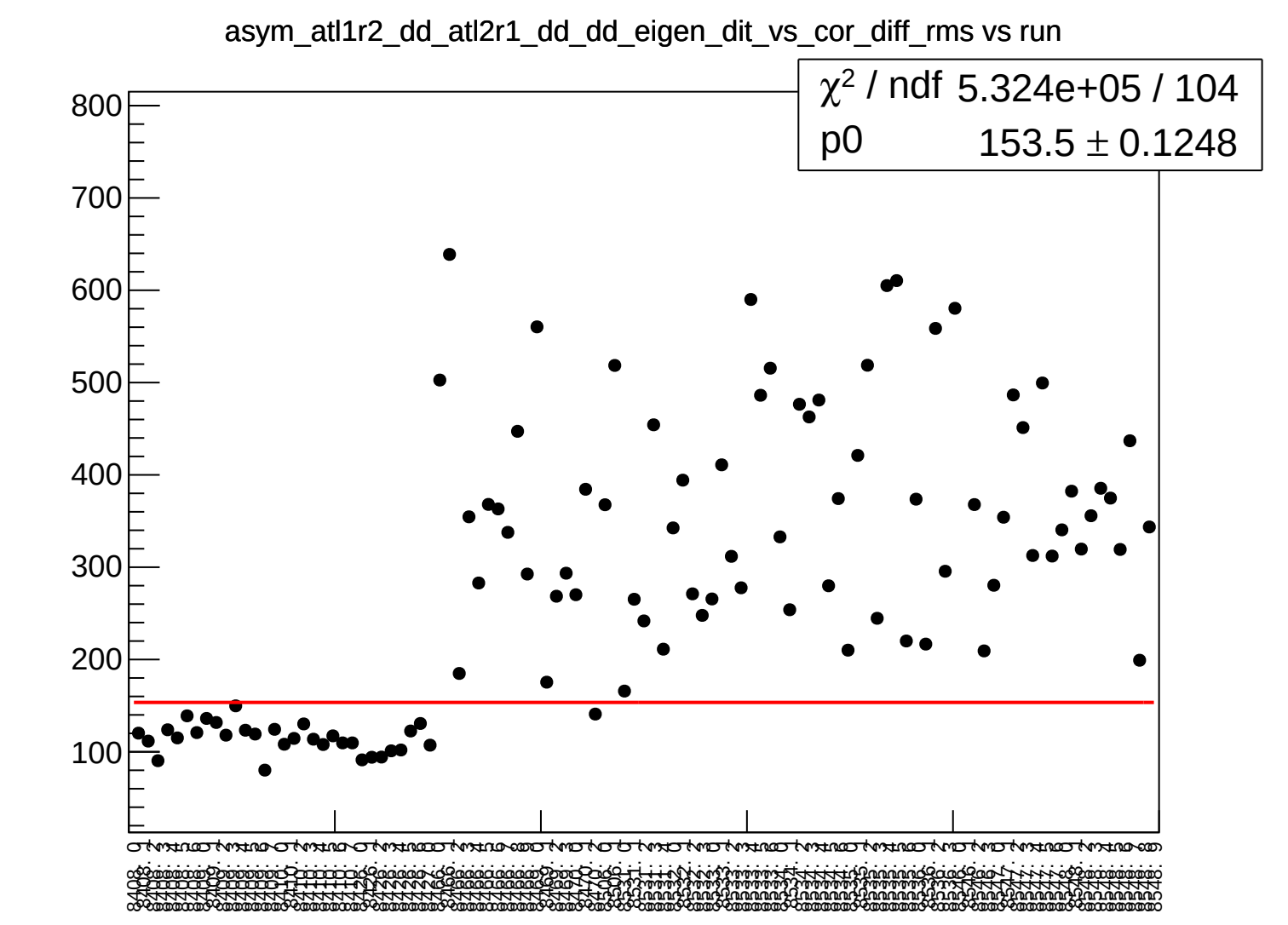

asym_atl1r2_dd_atl2r1_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.325e+05 / 104
p0 153.5 ± 0.1248
800
700
600
500
400
300
200
100

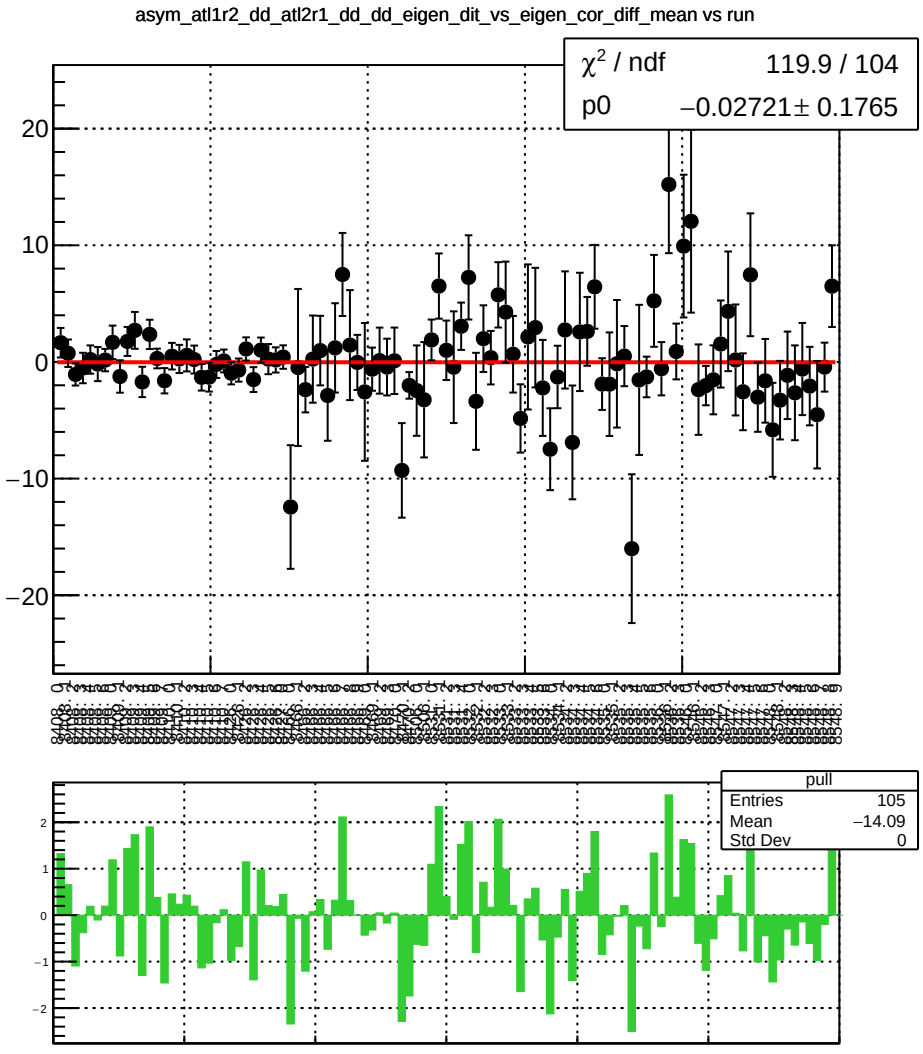

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 129.5 / 104
p0 1.893e−06 ± 1.859e−06
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
pull
Entries 105
Mean 17.38
Std Dev 0
2
1
0
−1
−2

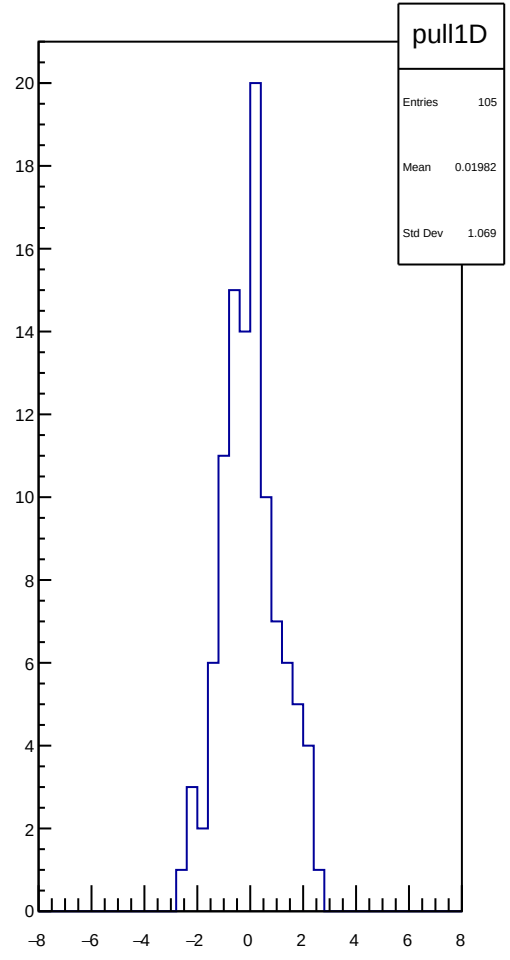

pull1D
Entries 105
Mean 0.1462
Std Dev 1.101
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

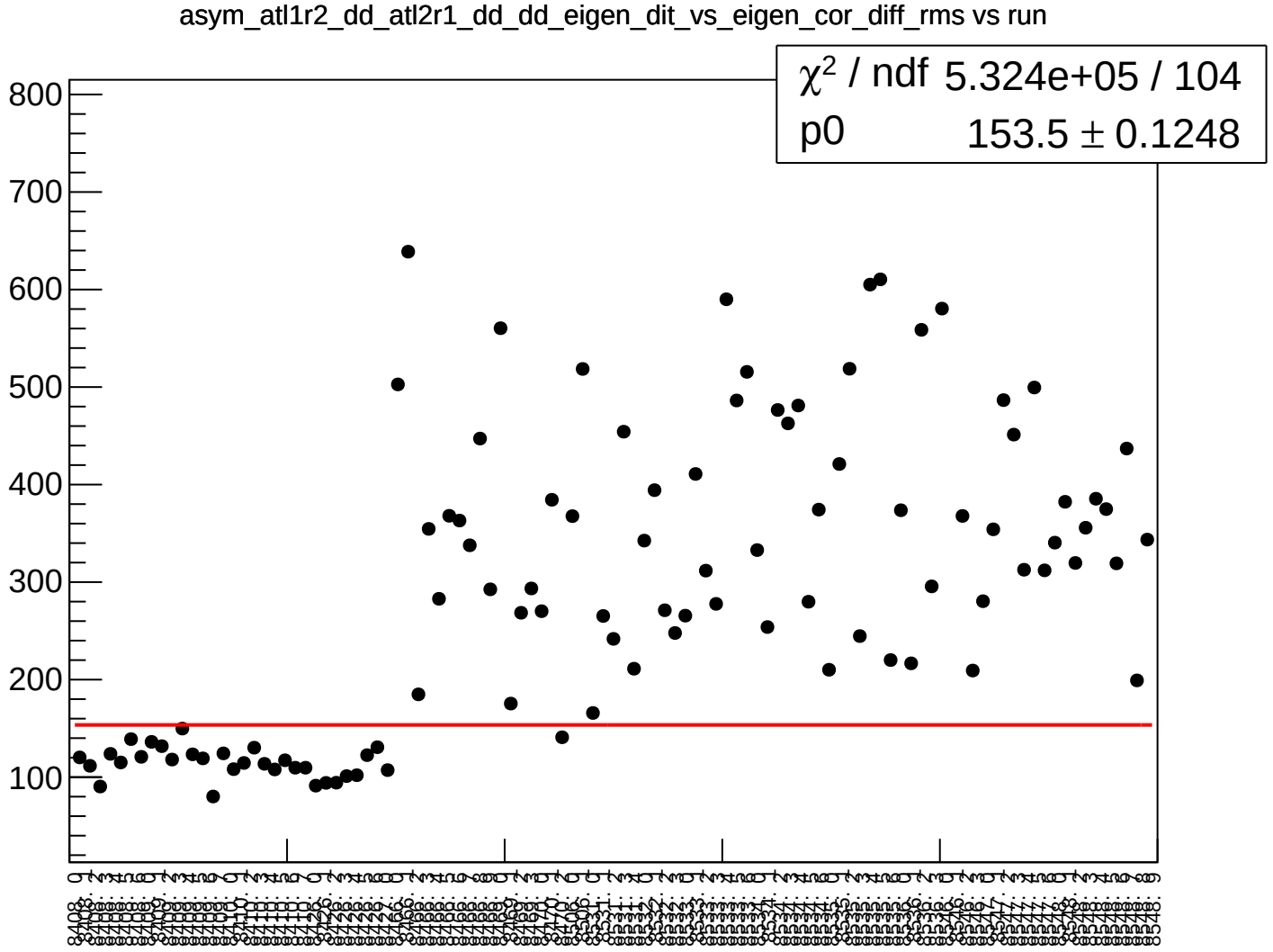

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ^2 / ndf 9.025e+05 / 104
p0 0.001406 ± 1.314e−06
0.03
0.025
0.02
0.015
0.01
0.005

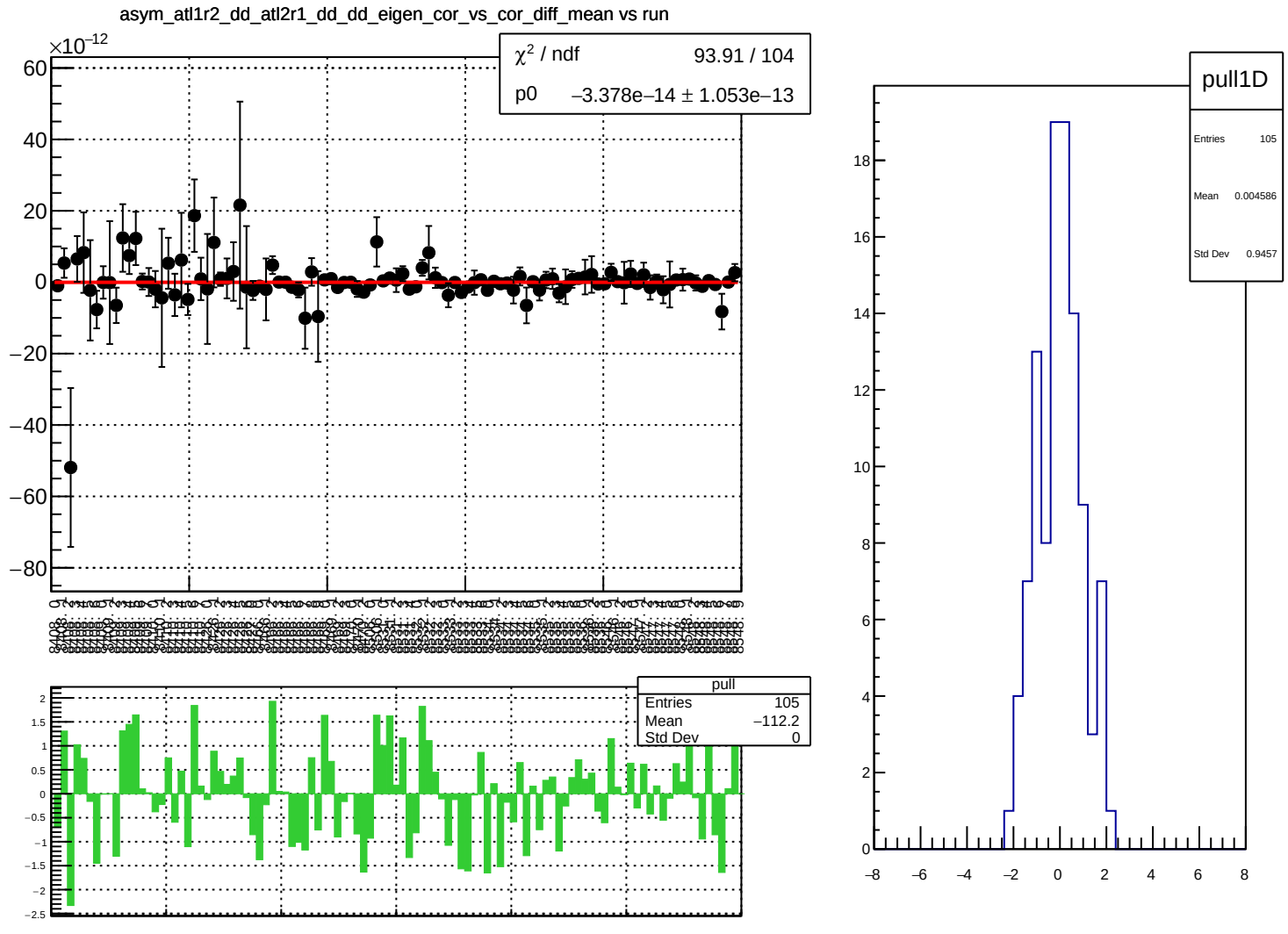

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 119.9 / 104
p0 −0.02721 ± 0.1765
pull
Entries 105
Mean −14.09
Std Dev 0
pull1D
Entries 105
Mean 0.01982
Std Dev 1.069

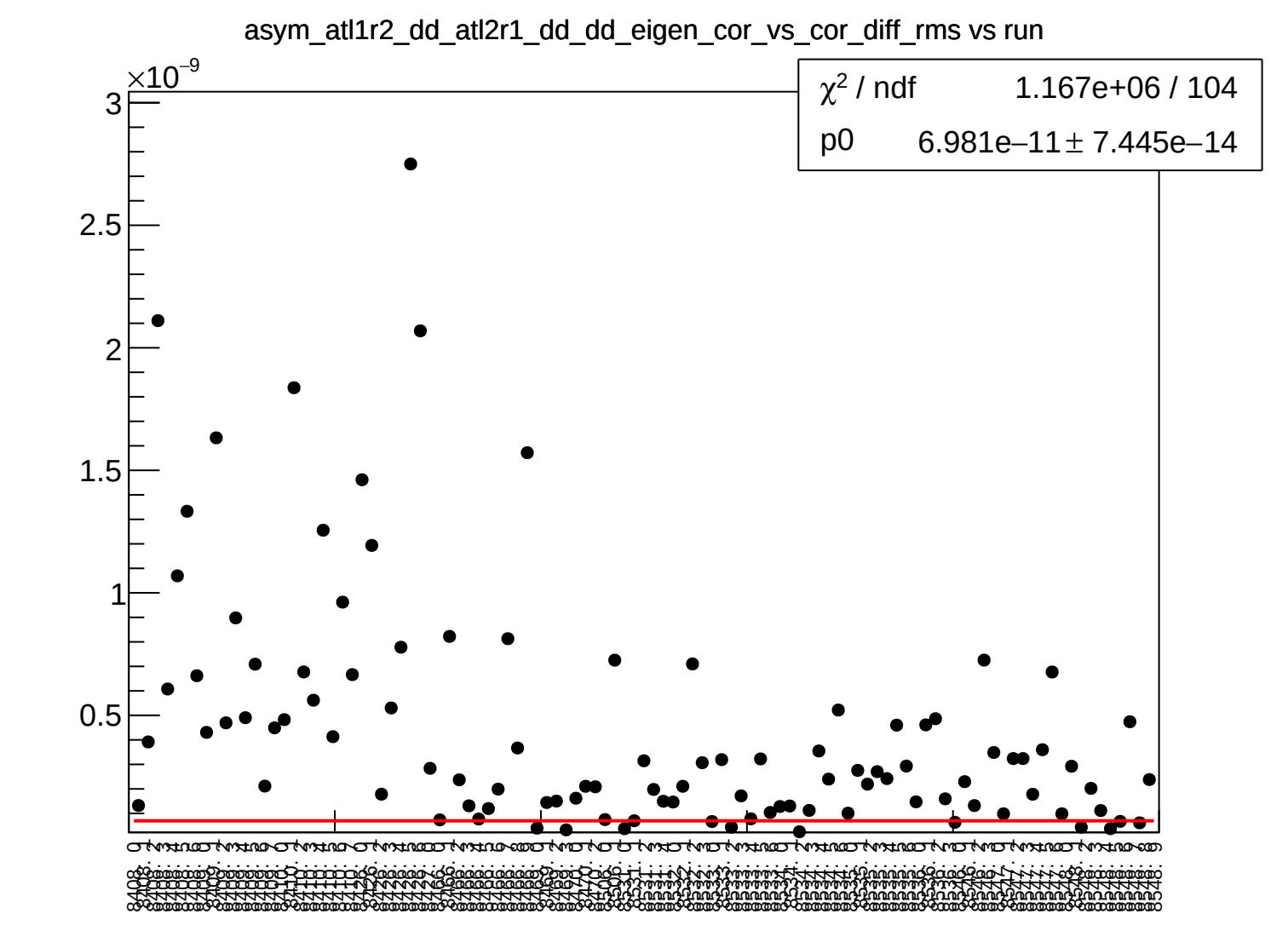

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.324e+05 / 104
p0 153.5 ± 0.1248
800
700
600
500
400
300
200
100

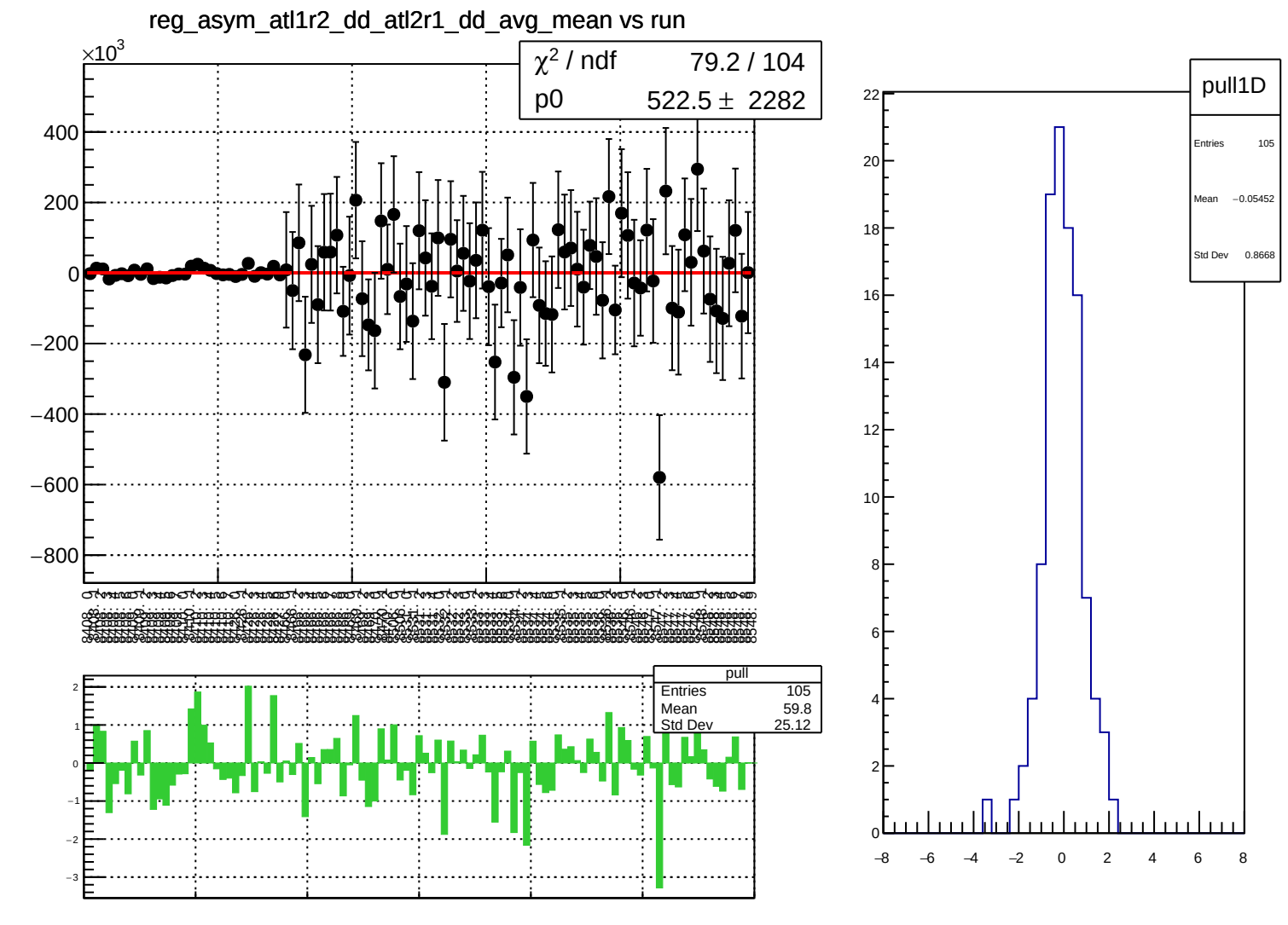

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 119.9 / 104
p0 −0.02721 ± 0.1765
pull
Entries 105
Mean −14.09
Std Dev 0

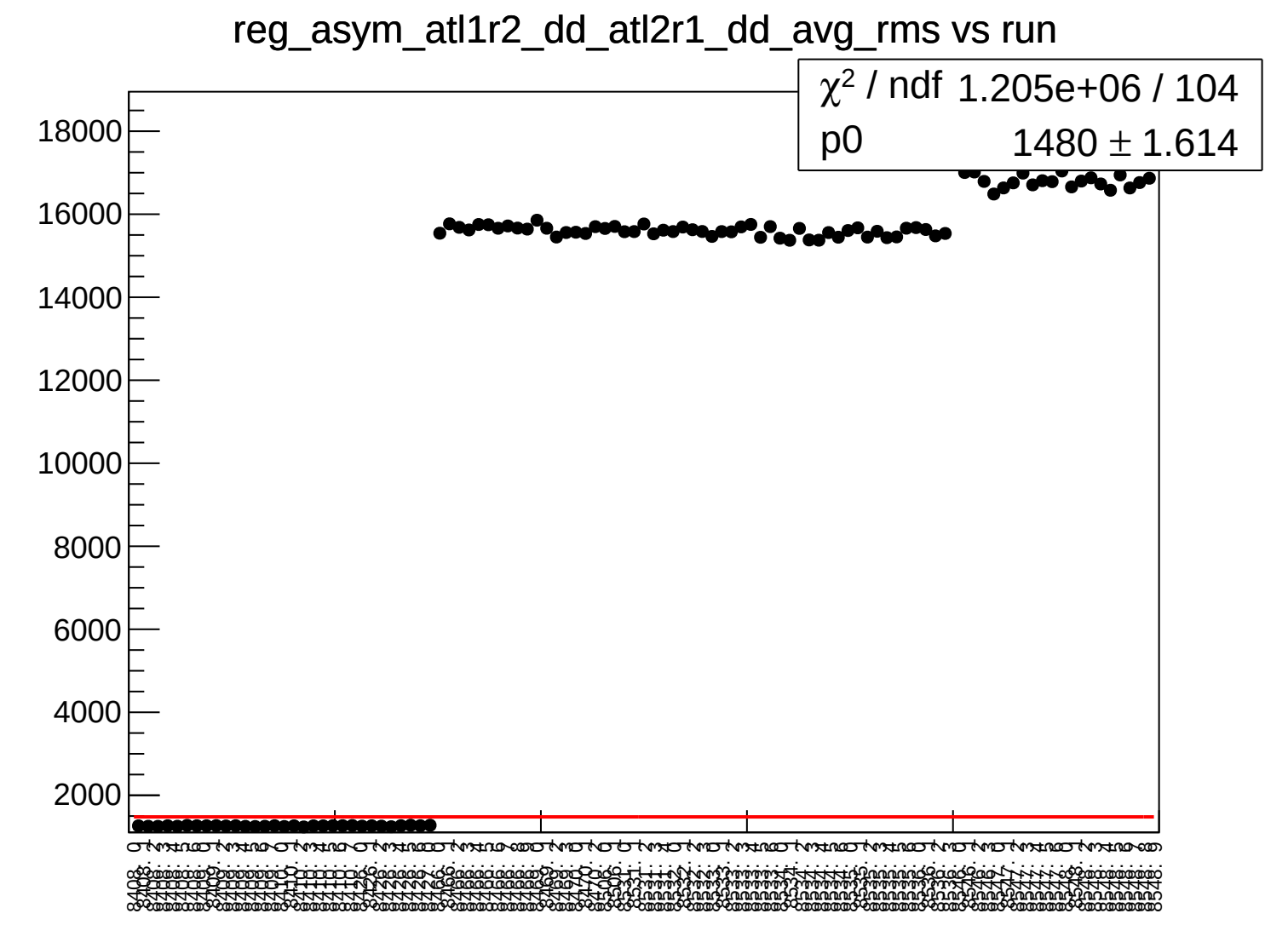

pull1D
Entries 105
Mean 0.01982
Std Dev 1.069

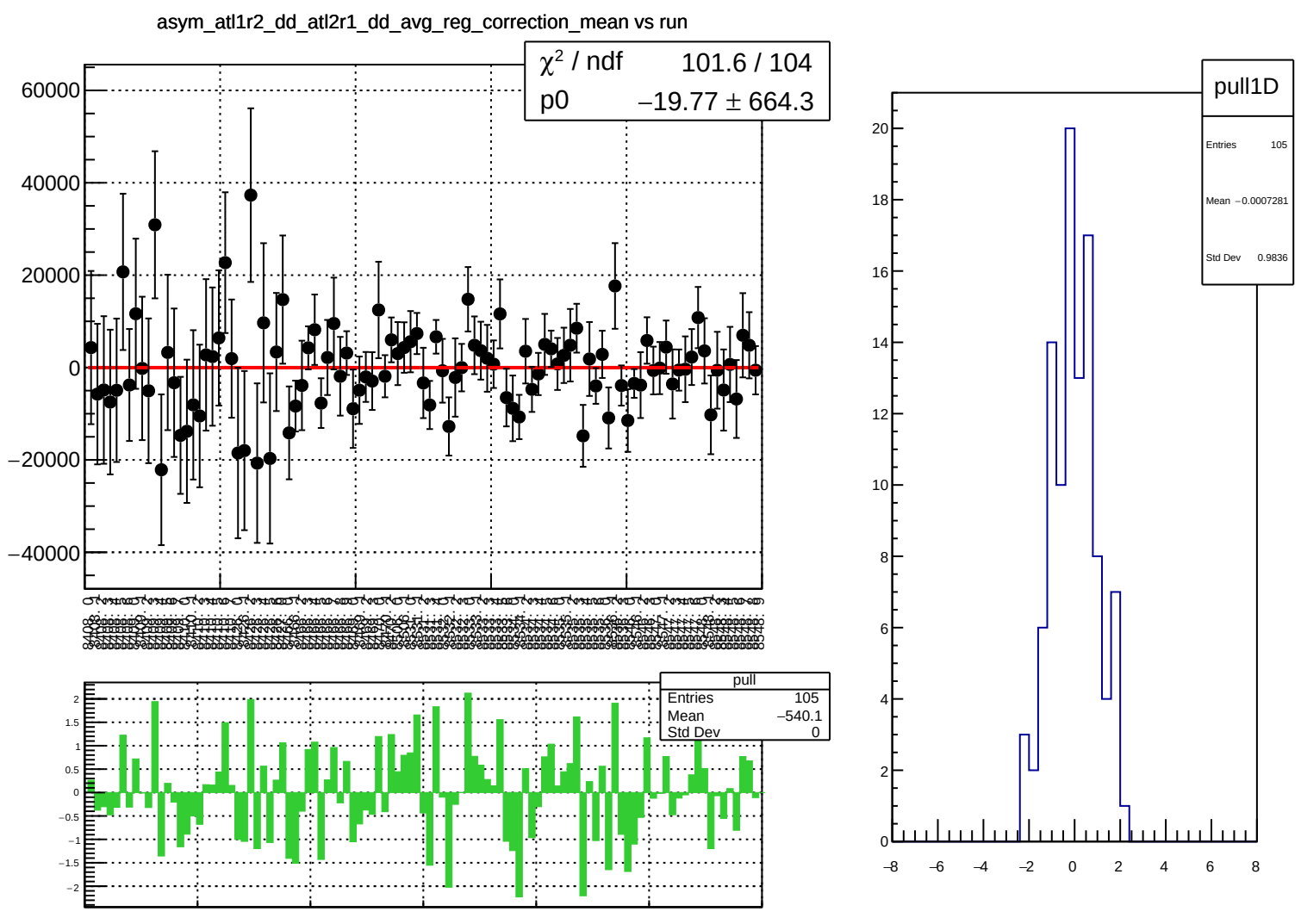

asym_atl1r2_dd_atl2r1_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.324e+05 / 104
p0 153.5 ± 0.1248
800
700
600
500
400
300
200
100

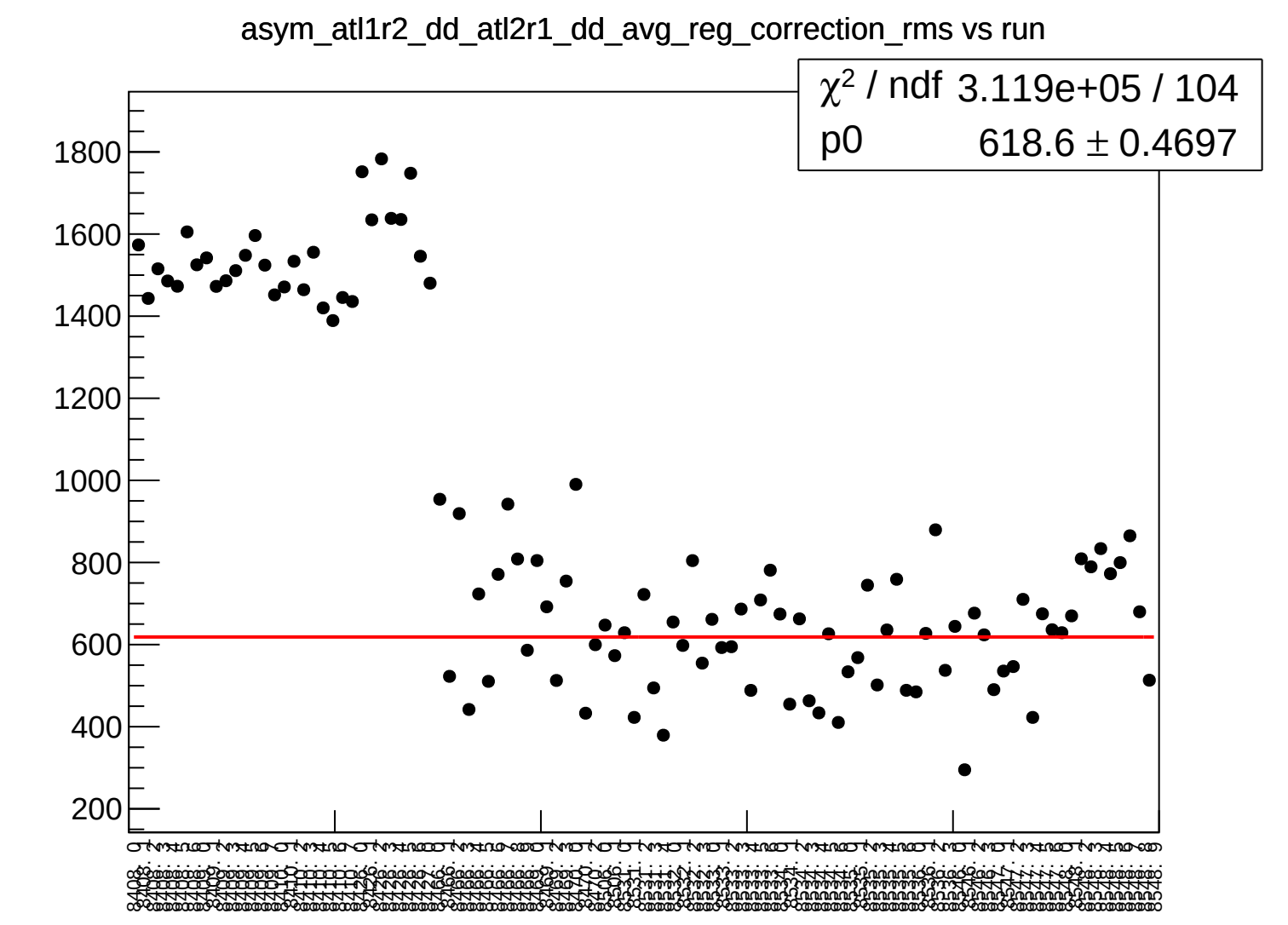

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10^-12
χ² / ndf 93.91 / 104
p0 −3.378e−14 ± 1.053e−13
pull
Entries 105
Mean −112.2
Std Dev 0
pull1D
Entries 105
Mean 0.004586
Std Dev 0.9457

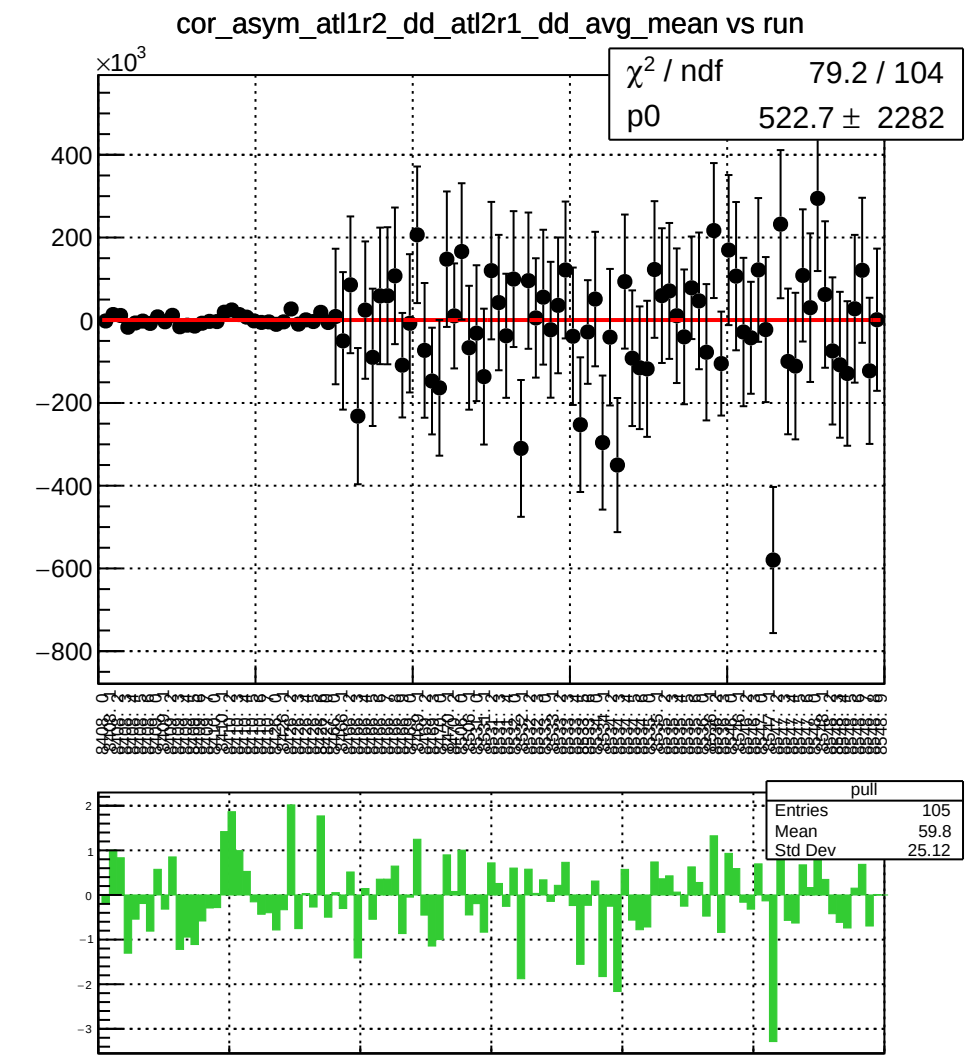

asym_atl1r2_dd_atl2r1_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
3
2.5
2
1.5
1
0.5
χ² / ndf 1.167e+06 / 104
p0 6.981e−11 ± 7.445e−14

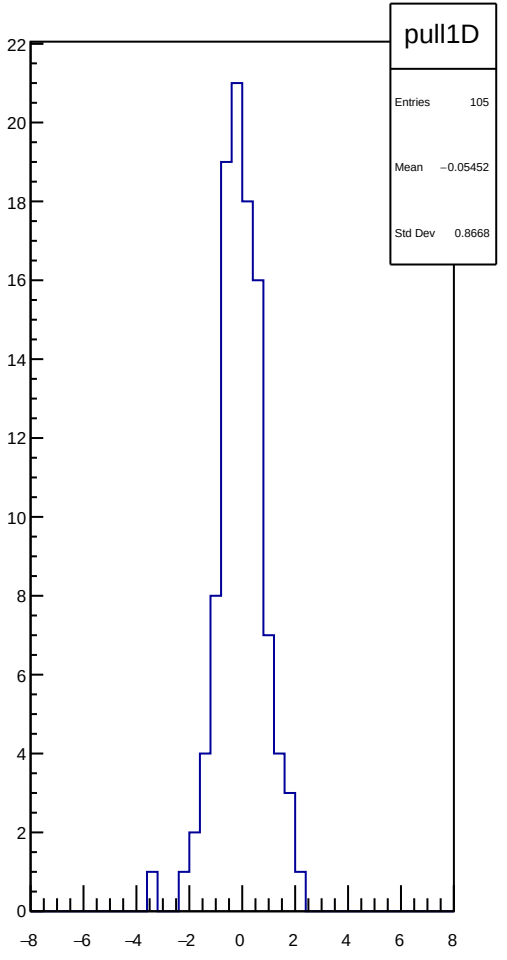

reg_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
×10^3
χ^2 / ndf 79.2 / 104
p0 522.5 ± 2282
400
200
0
−200
−400
−600
−800
pull
Entries 105
Mean 59.8
Std Dev 25.12
2
1
0
−1
−2
−3
pull1D
Entries 105
Mean −0.05452
Std Dev 0.8668
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

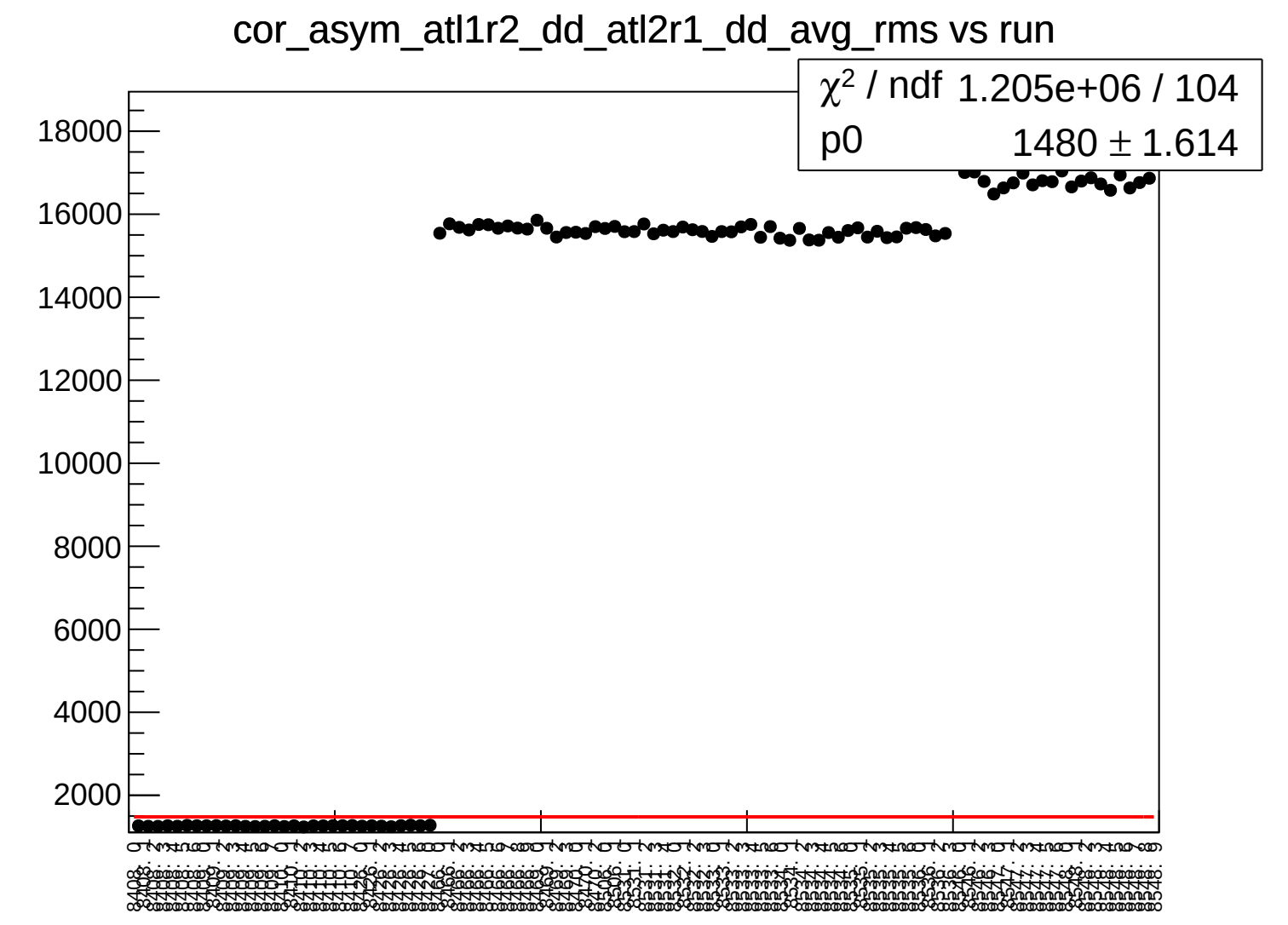

reg_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 1.205e+06 / 104
p0 1480 ± 1.614
18000
16000
14000
12000
10000
8000
6000
4000
2000

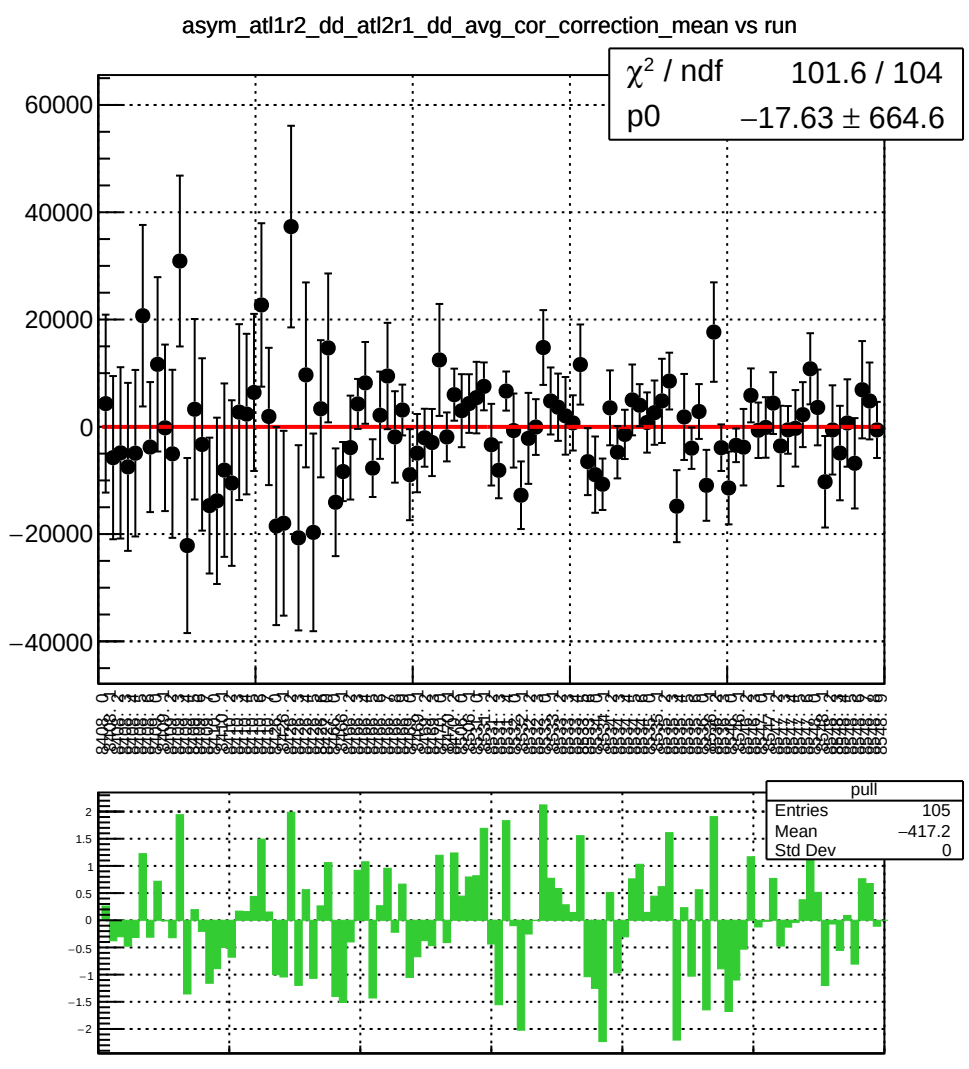

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_mean vs run
χ² / ndf 101.6 / 104
p0 −19.77 ± 664.3
60000
40000
20000
0
−20000
−40000
pull
Entries 105
Mean −540.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 105
Mean −0.0007281
Std Dev 0.9836
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

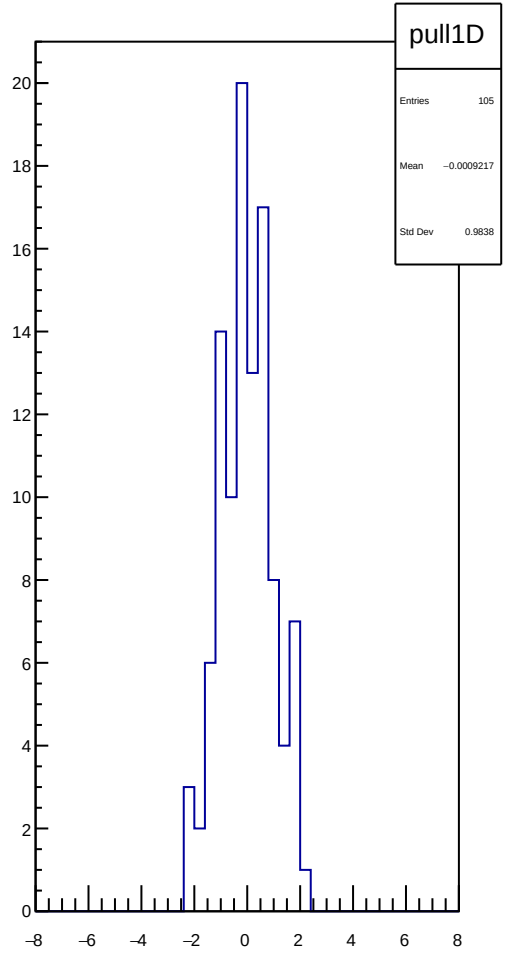

asym_atl1r2_dd_atl2r1_dd_avg_reg_correction_rms vs run
χ² / ndf 3.119e+05 / 104
p0 618.6 ± 0.4697
1800
1600
1400
1200
1000
800
600
400
200

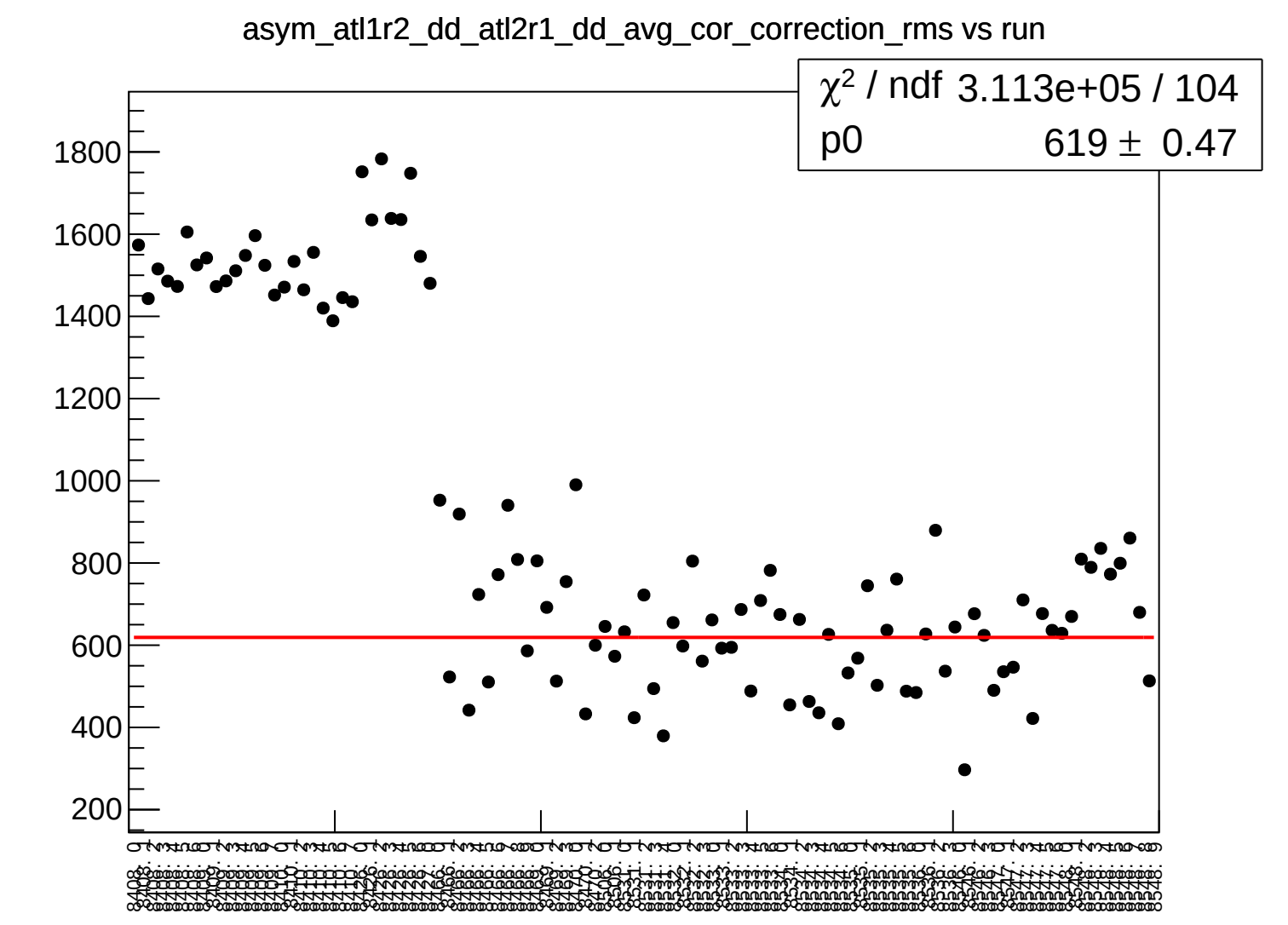

cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
×10^3
χ^2 / ndf 79.2 / 104
p0 522.7 ± 2282
400
200
0
−200
−400
−600
−800
pull
Entries 105
Mean 59.8
Std Dev 25.12
2
1
0
−1
−2
−3

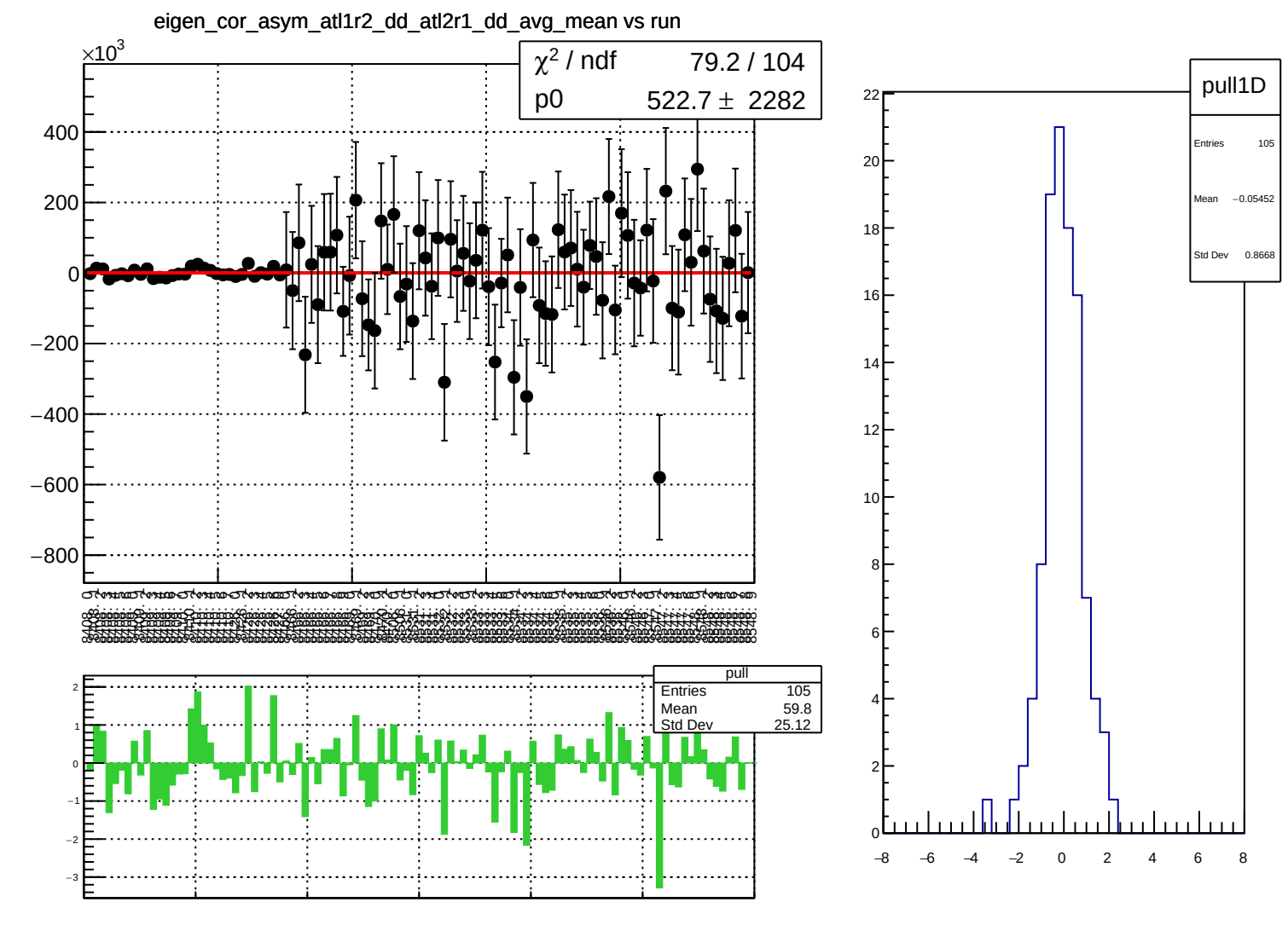

pull1D
Entries 105
Mean −0.05452
Std Dev 0.8668
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

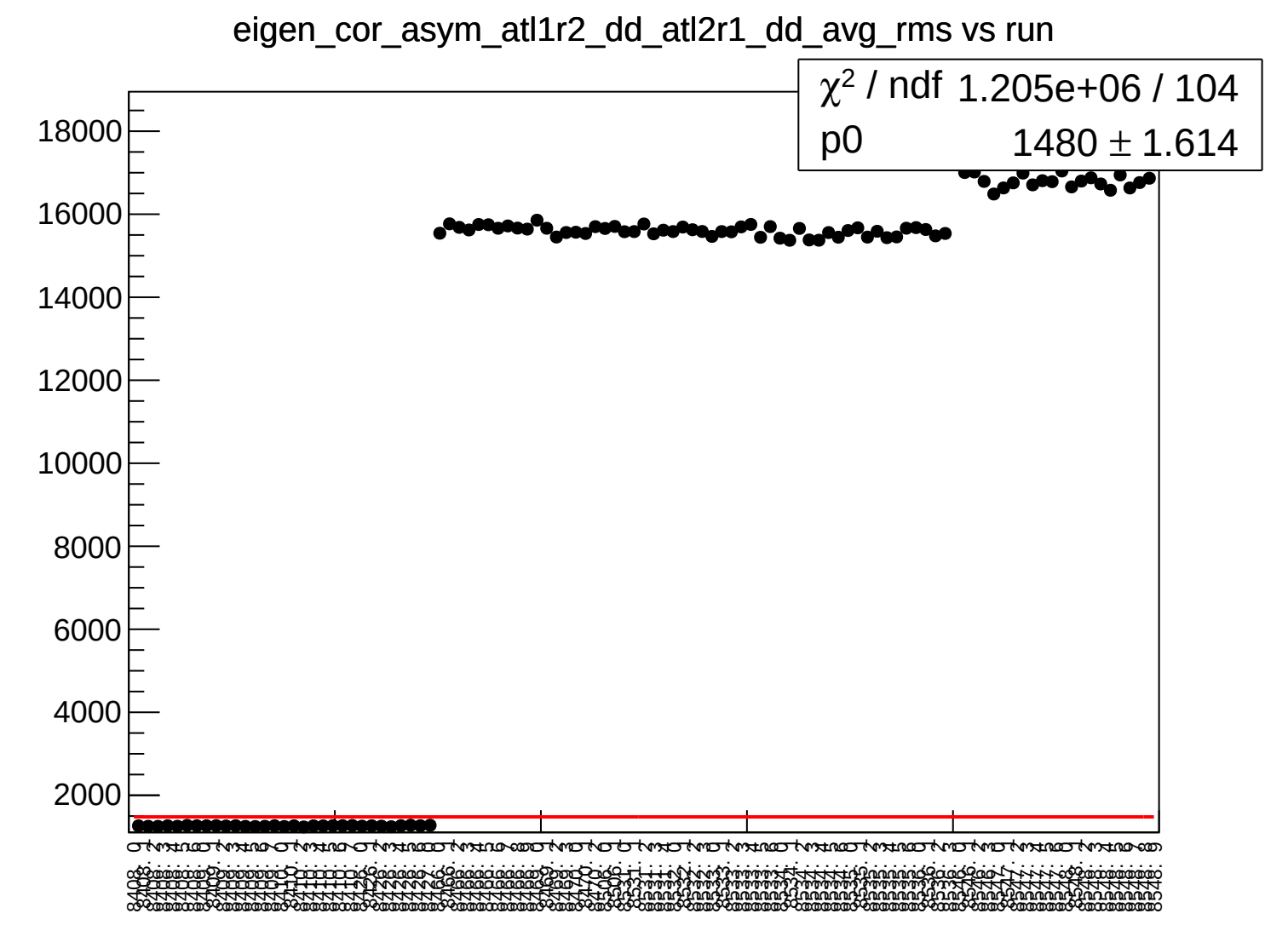

cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 1.205e+06 / 104
p0 1480 ± 1.614
18000
16000
14000
12000
10000
8000
6000
4000
2000

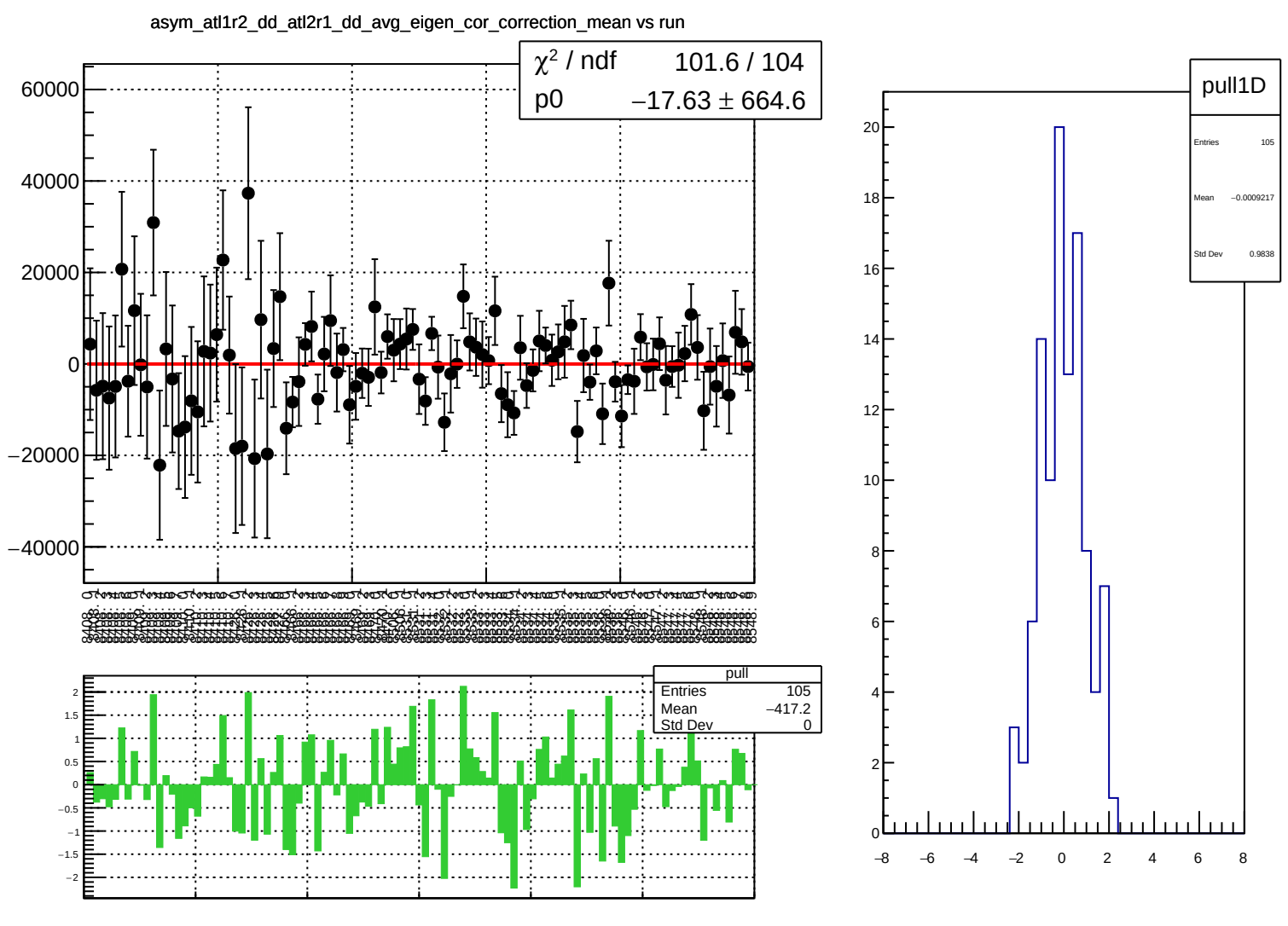

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_mean vs run
χ² / ndf 101.6 / 104
p0 −17.63 ± 664.6
60000
40000
20000
0
−20000
−40000
pull
Entries 105
Mean −417.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

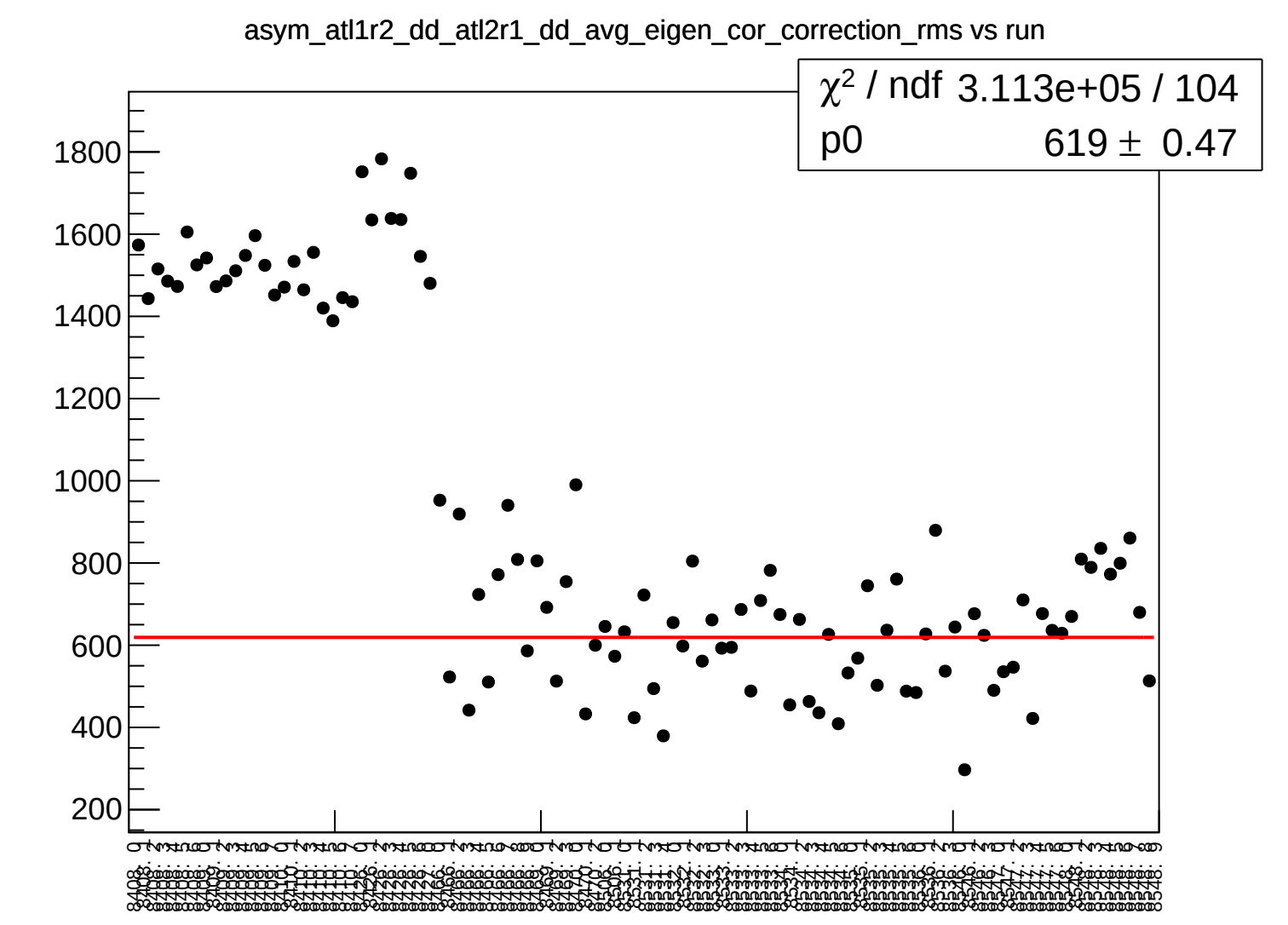

pull1D
Entries 105
Mean −0.0009217
Std Dev 0.9838
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

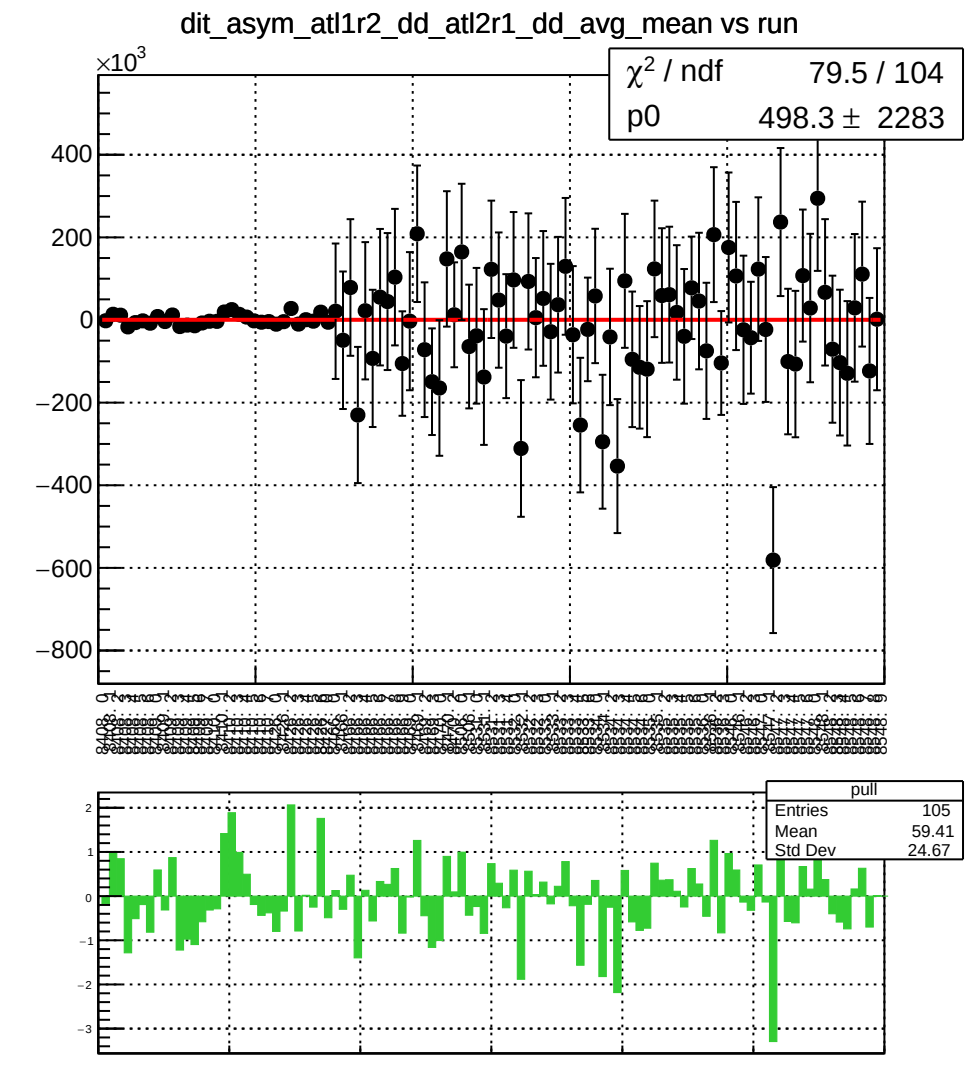

asym_atl1r2_dd_atl2r1_dd_avg_cor_correction_rms vs run
χ² / ndf 3.113e+05 / 104
p0 619 ± 0.47
1800
1600
1400
1200
1000
800
600
400
200

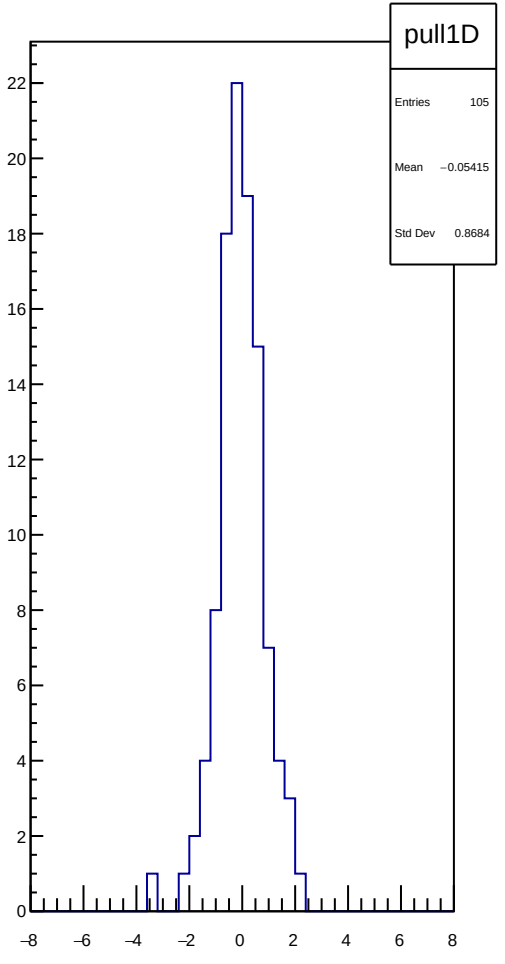

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
×10^3
χ^2 / ndf 79.2 / 104
p0 522.7 ± 2282
400
200
0
−200
−400
−600
−800
pull
Entries 105
Mean 59.8
Std Dev 25.12
2
1
0
−1
−2
−3
pull1D
Entries 105
Mean −0.05452
Std Dev 0.8668
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

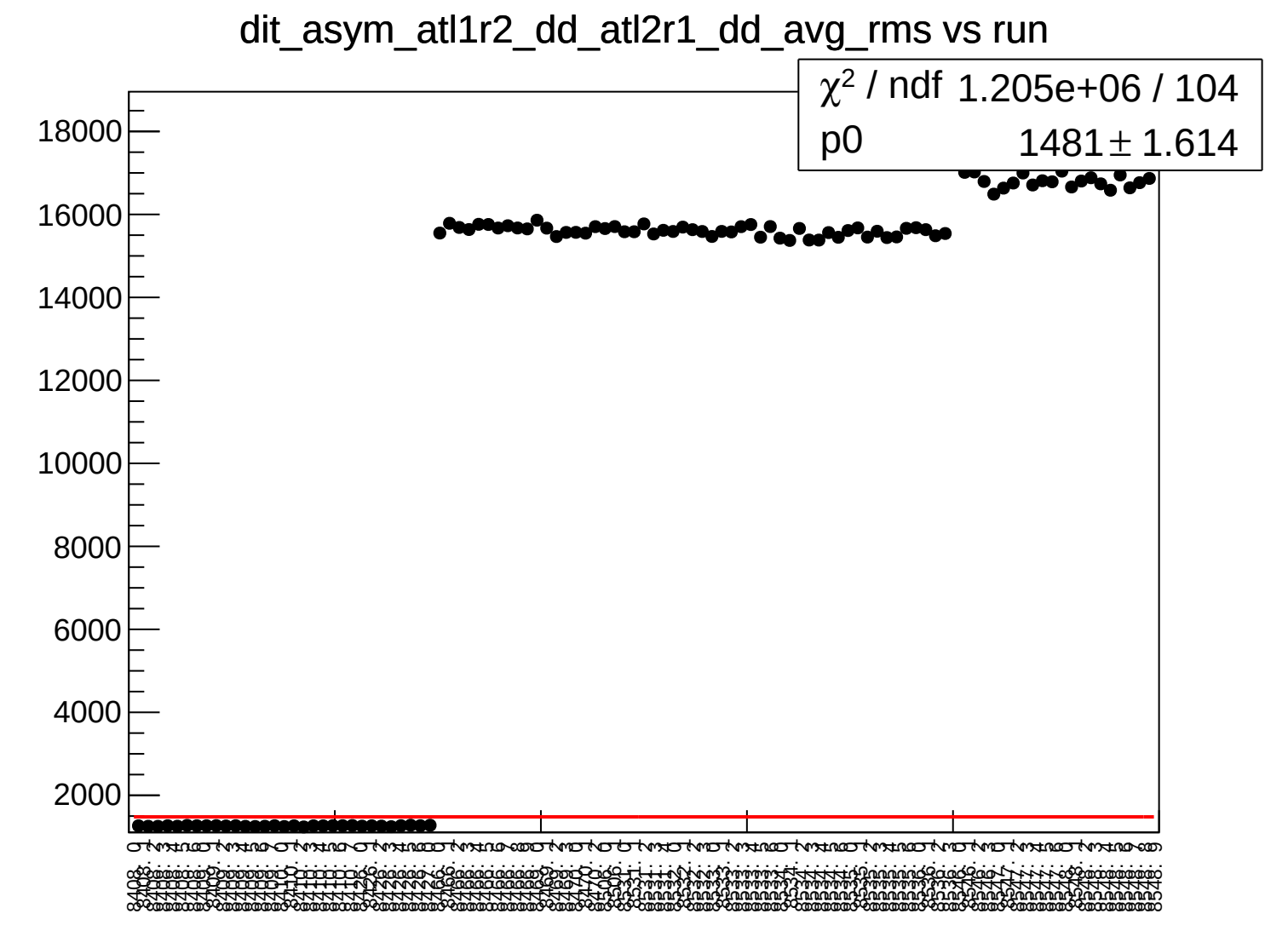

eigen_cor_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 1.205e+06 / 104
p0 1480 ± 1.614
18000
16000
14000
12000
10000
8000
6000
4000
2000

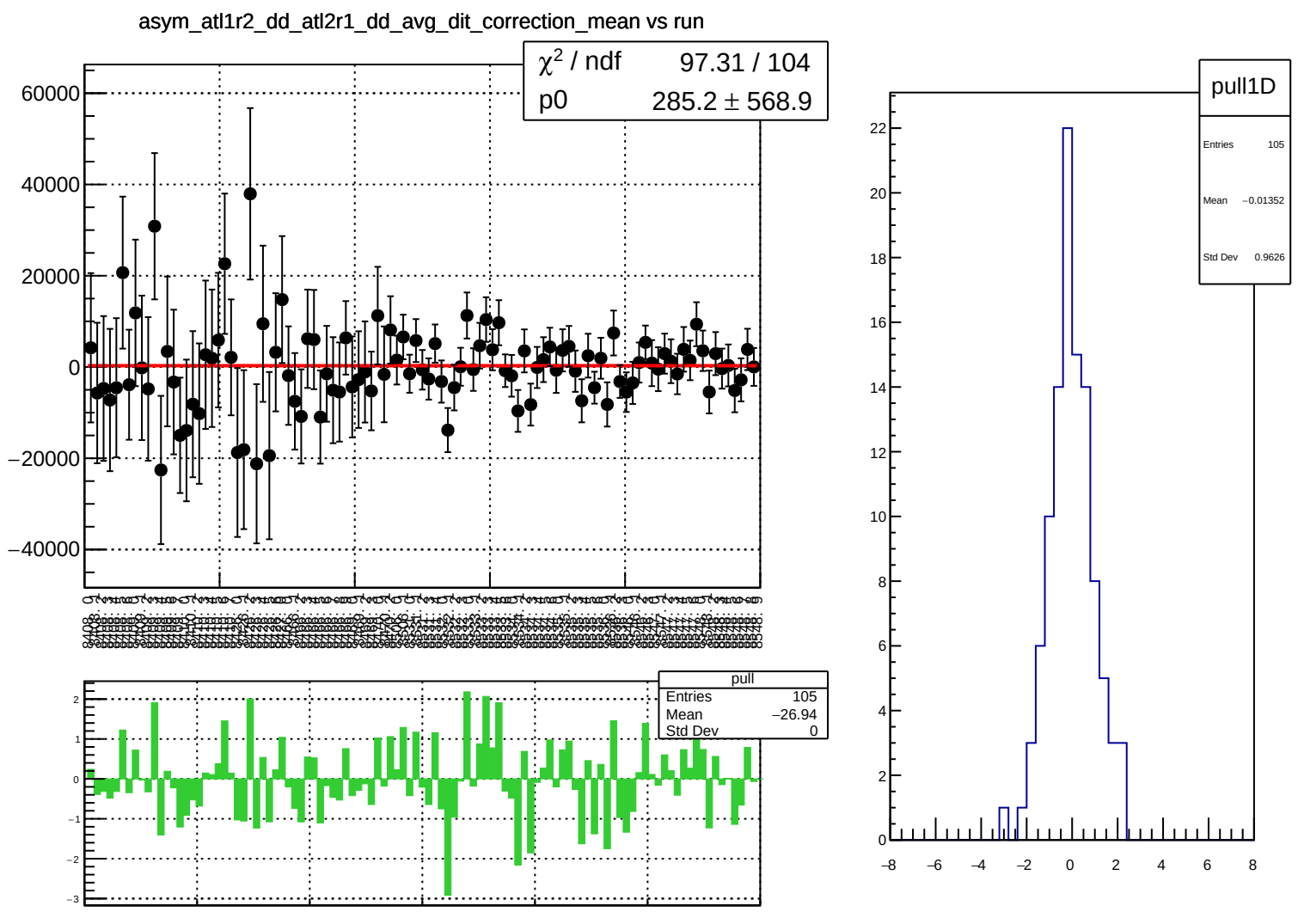

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 101.6 / 104
p0 −17.63 ± 664.6
60000
40000
20000
0
−20000
−40000
pull
Entries 105
Mean −417.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 105
Mean −0.0009217
Std Dev 0.9838
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

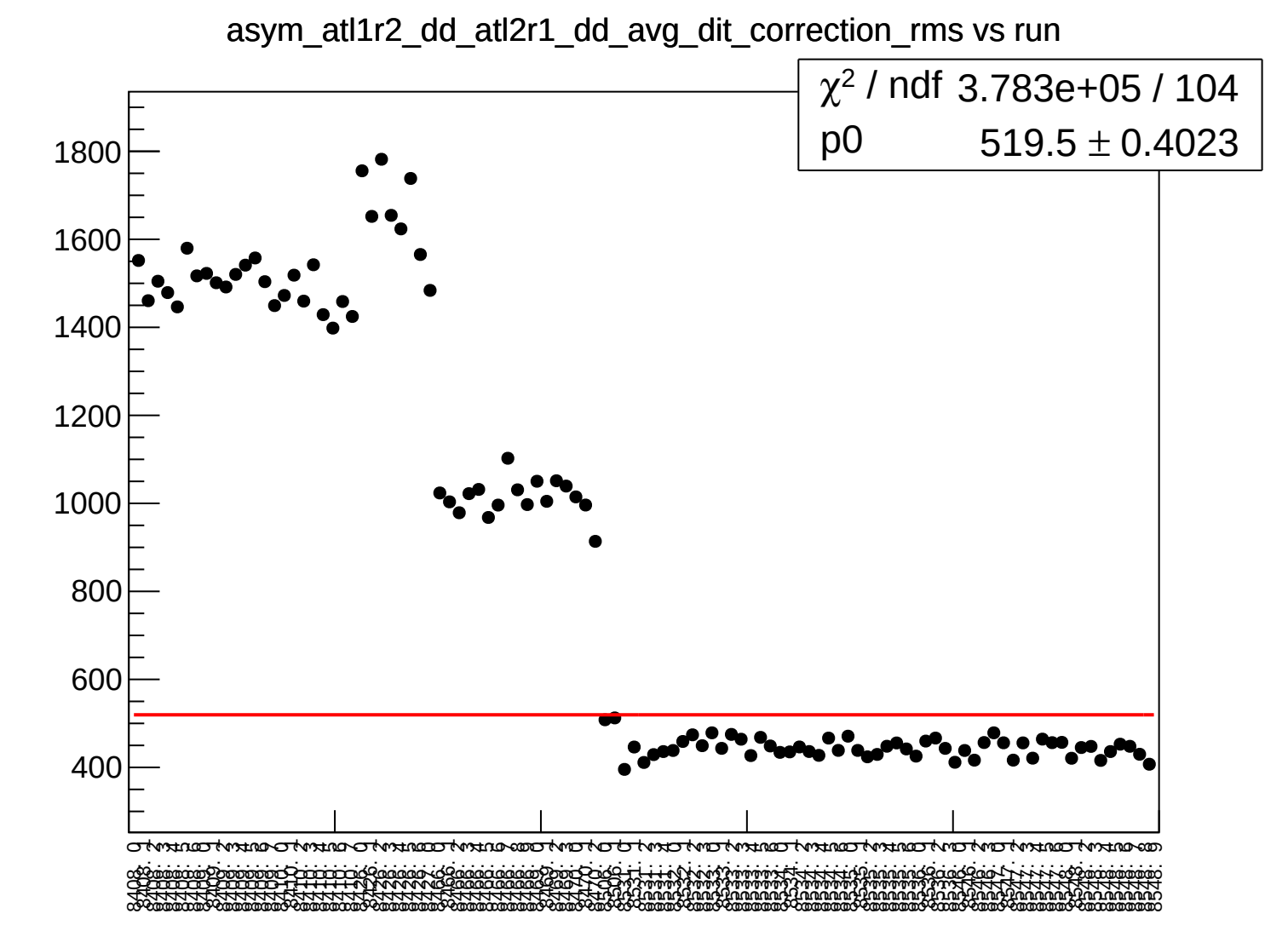

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.113e+05 / 104
p0 619 ± 0.47
1800
1600
1400
1200
1000
800
600
400
200

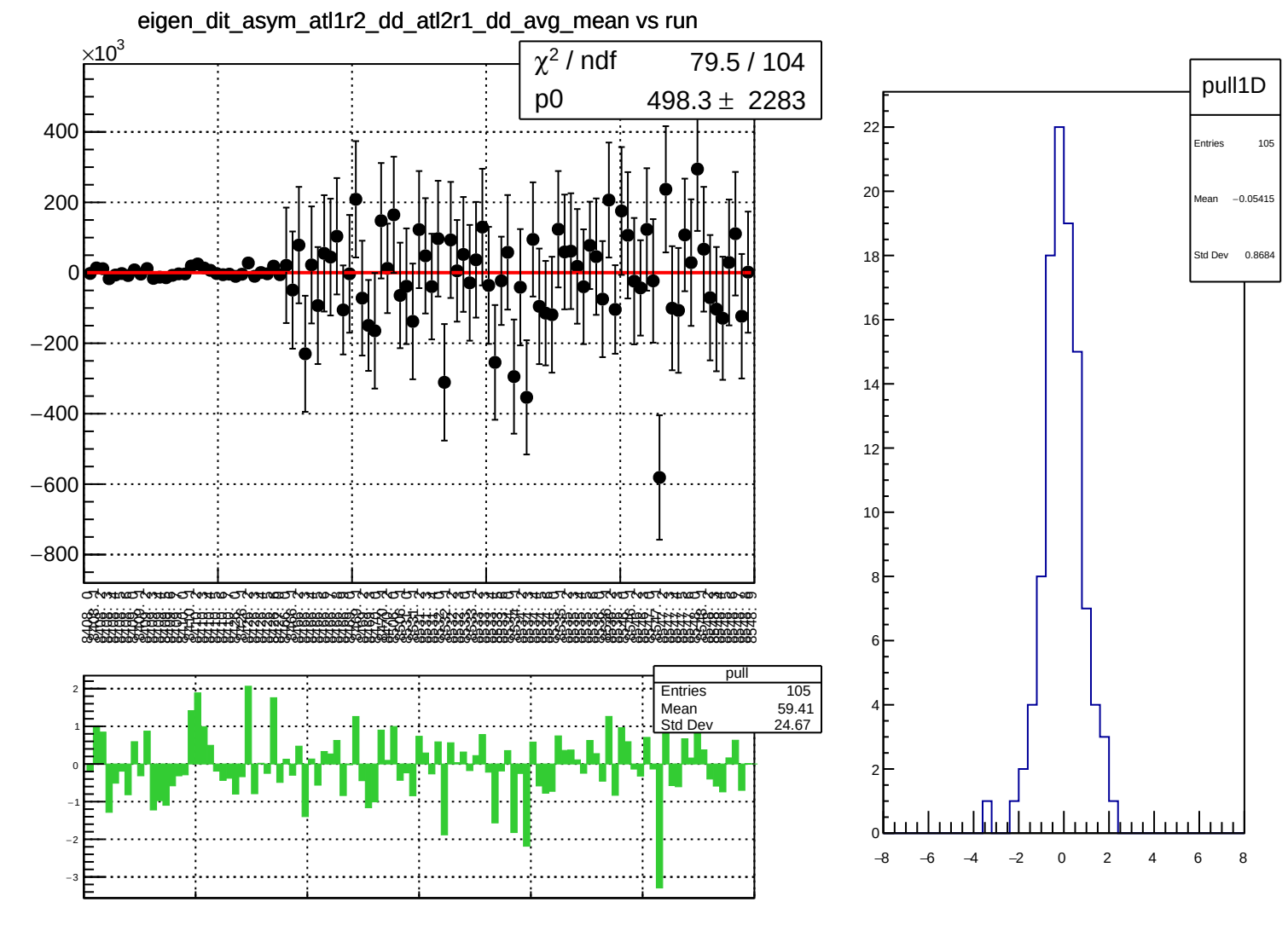

dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
×10^3
χ^2 / ndf 79.5 / 104
p0 498.3 ± 2283
400
200
0
−200
−400
−600
−800
pull
Entries 105
Mean 59.41
Std Dev 24.67
2
1
0
−1
−2
−3

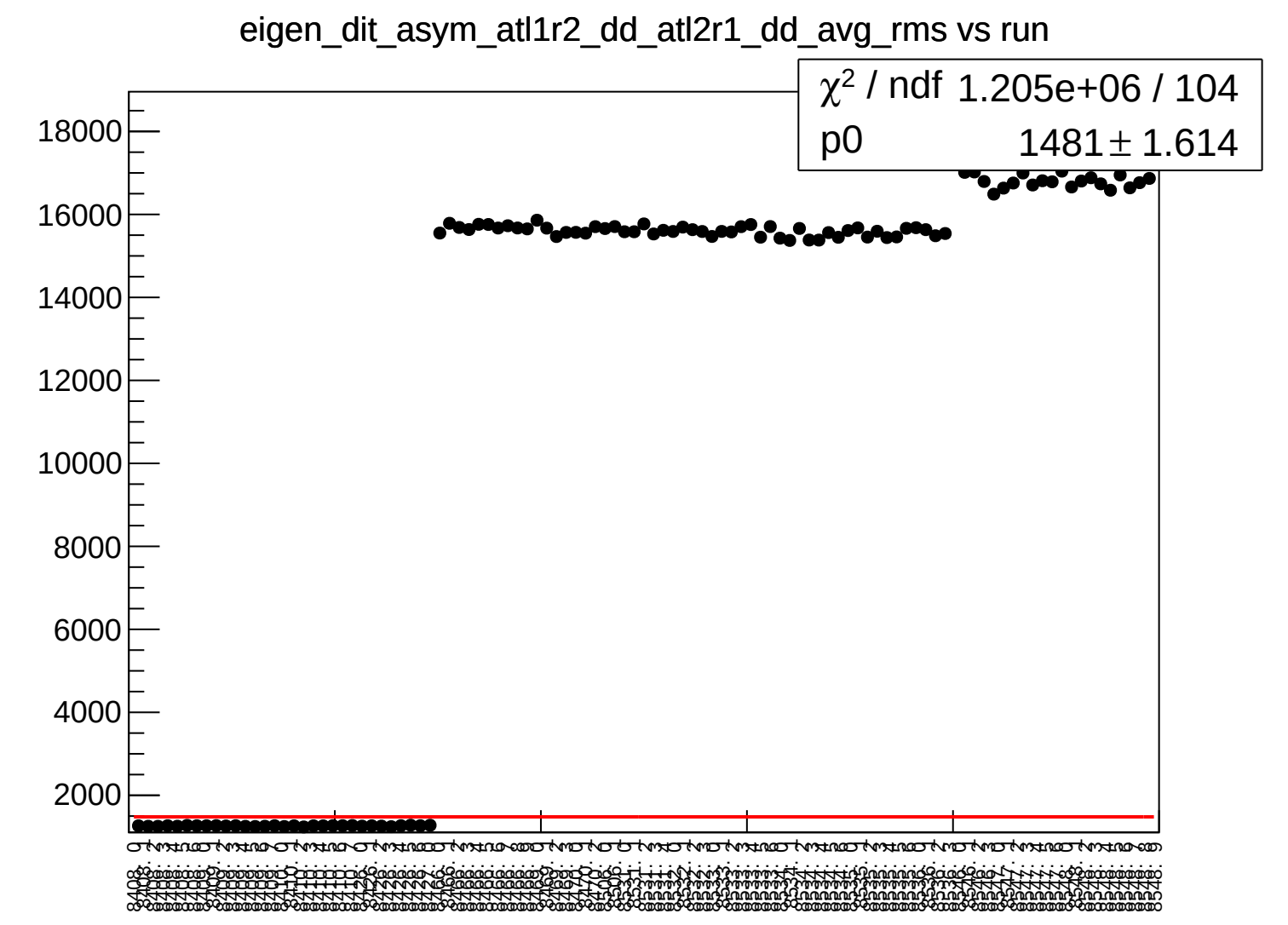

pull1D
Entries 105
Mean −0.05415
Std Dev 0.8684
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

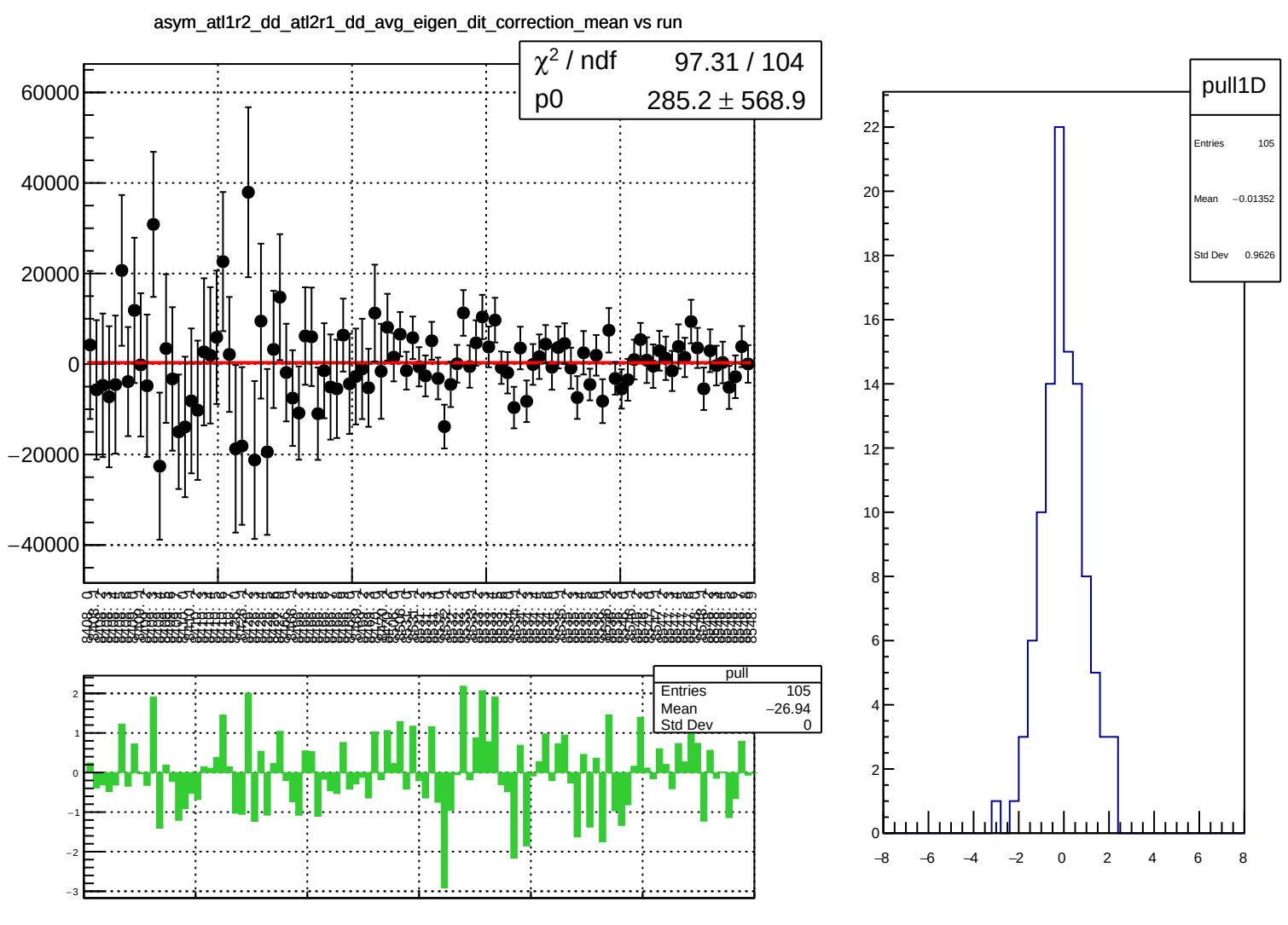

dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 1.205e+06 / 104
p0 1481 ± 1.614
18000
16000
14000
12000
10000
8000
6000
4000
2000

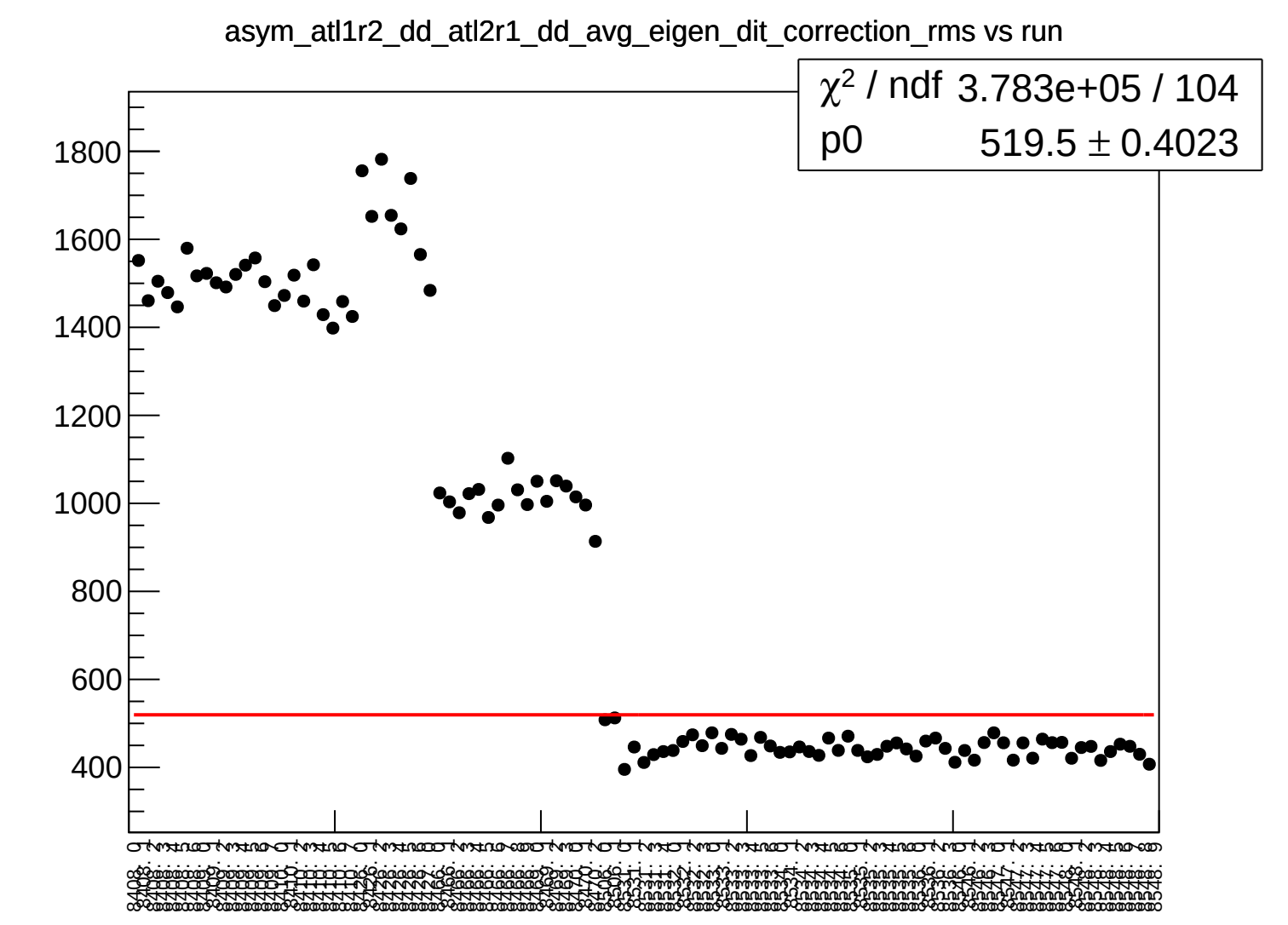

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_mean vs run
χ² / ndf 97.31 / 104
p0 285.2 ± 568.9
60000
40000
20000
0
−20000
−40000
pull
Entries 105
Mean −26.94
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 105
Mean −0.01352
Std Dev 0.9626
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

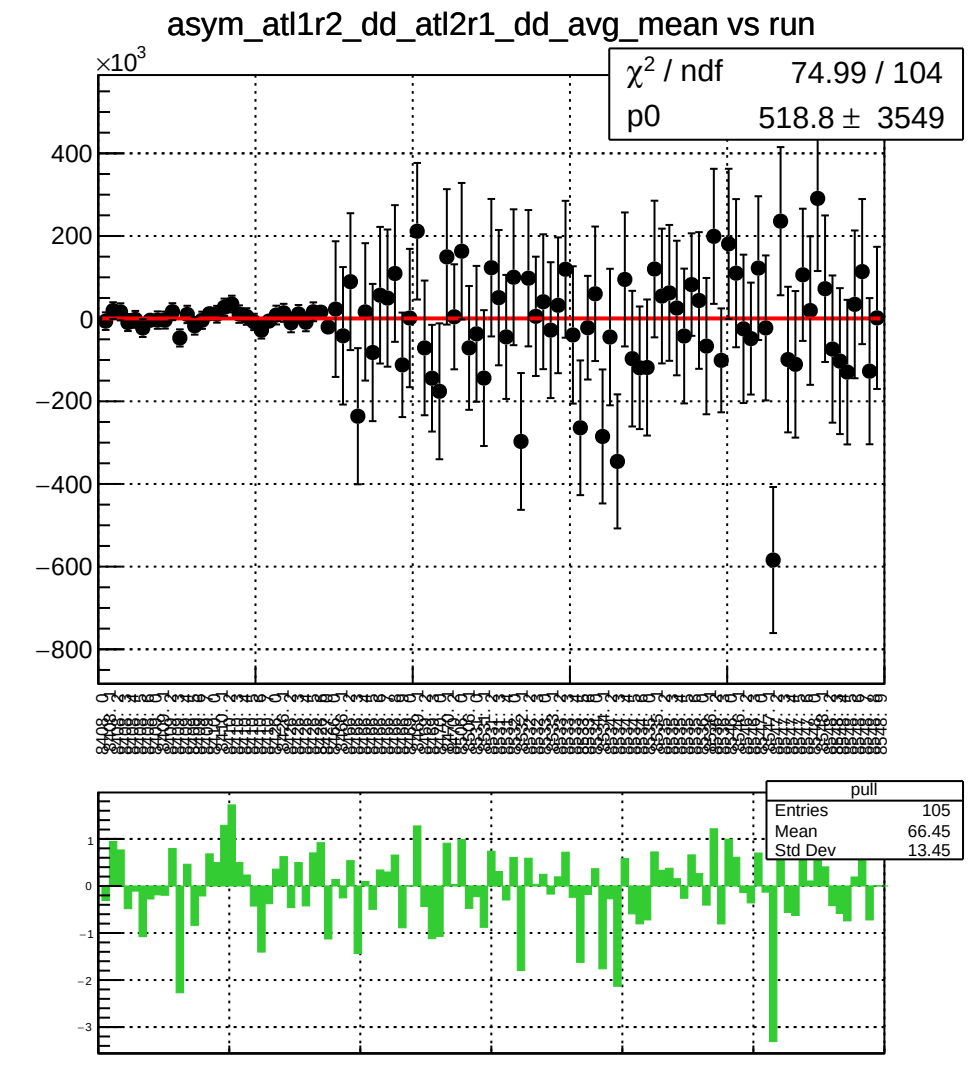

asym_atl1r2_dd_atl2r1_dd_avg_dit_correction_rms vs run
χ^2 / ndf 3.783e+05 / 104
p0 519.5 ± 0.4023
1800
1600
1400
1200
1000
800
600
400

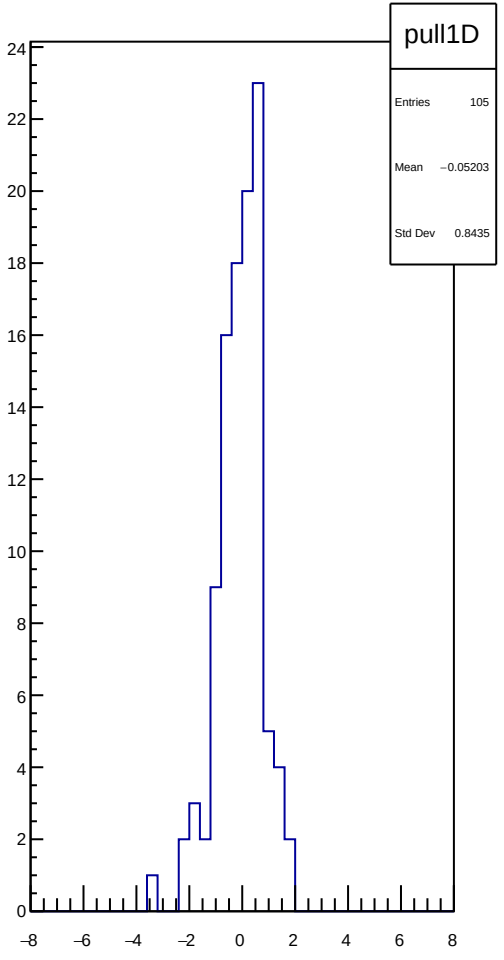

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
×10^3
χ^2 / ndf 79.5 / 104
p0 498.3 ± 2283
400
200
0
−200
−400
−600
−800
pull
Entries 105
Mean 59.41
Std Dev 24.67
2
1
0
−1
−2
−3
pull1D
Entries 105
Mean −0.05415
Std Dev 0.8684
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

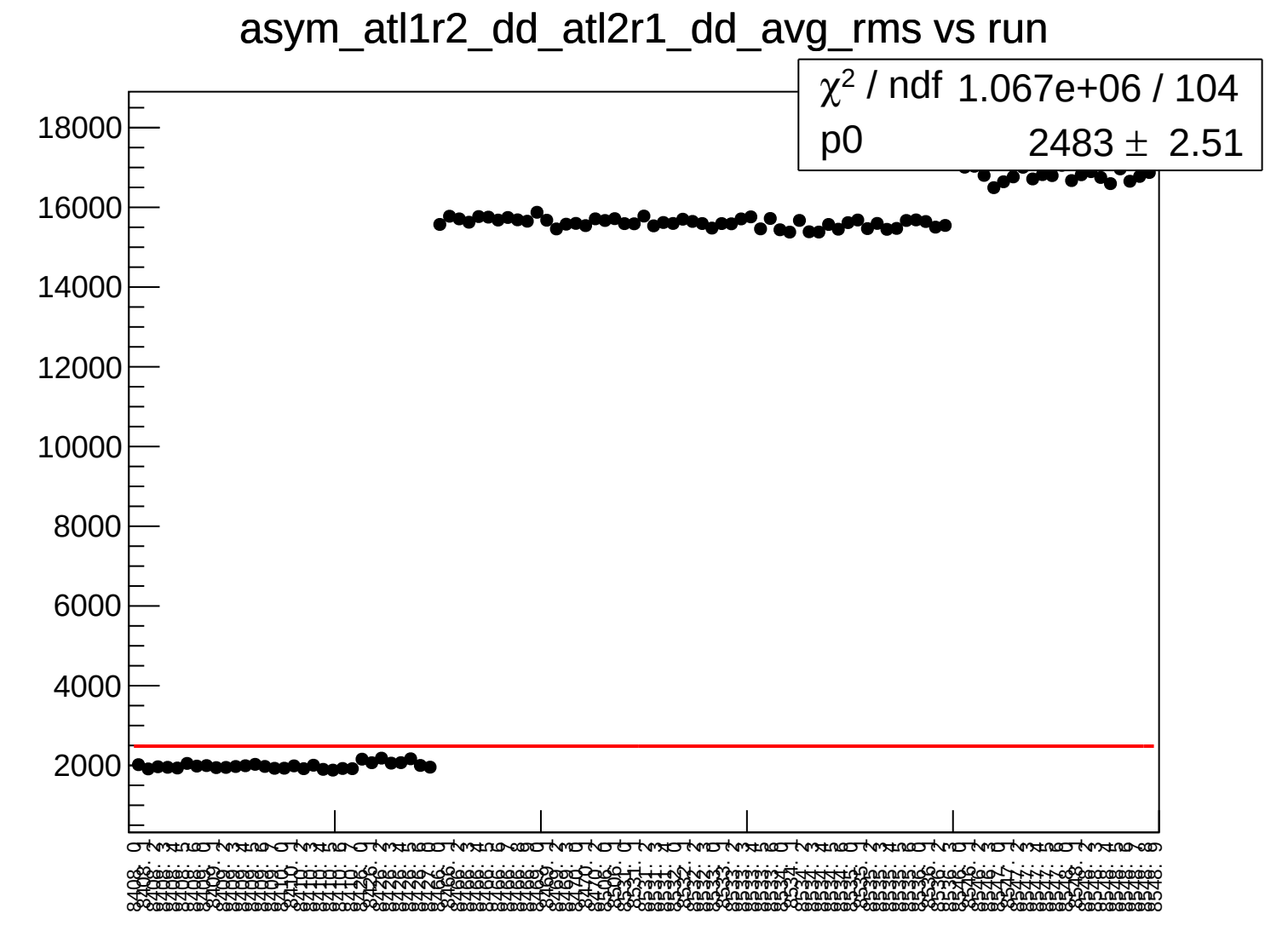

eigen_dit_asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 1.205e+06 / 104
p0 1481 ± 1.614
18000
16000
14000
12000
10000
8000
6000
4000
2000

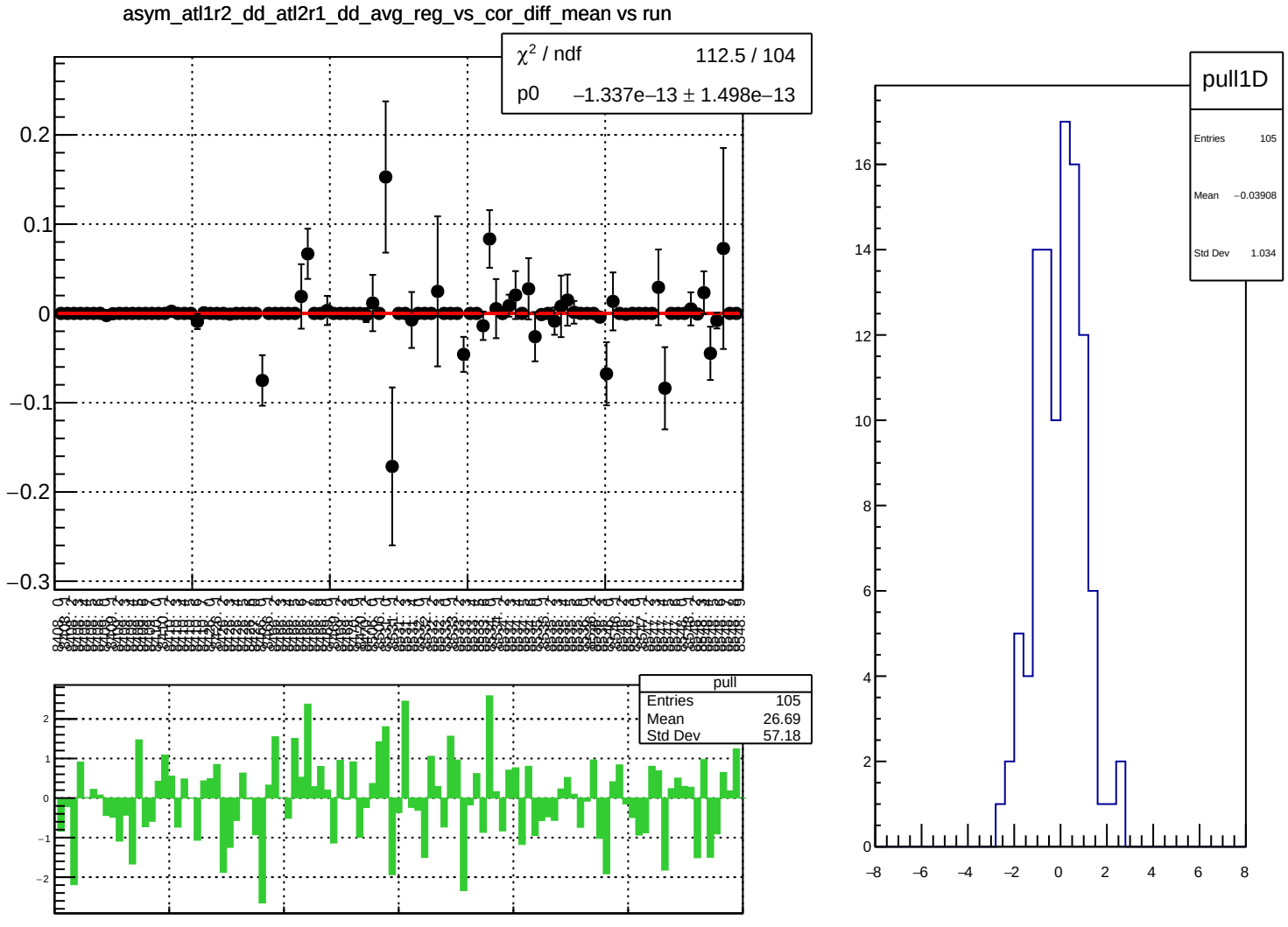

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 97.31 / 104
p0 285.2 ± 568.9
60000
40000
20000
0
−20000
−40000
pull
Entries 105
Mean −26.94
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 105
Mean −0.01352
Std Dev 0.9626
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

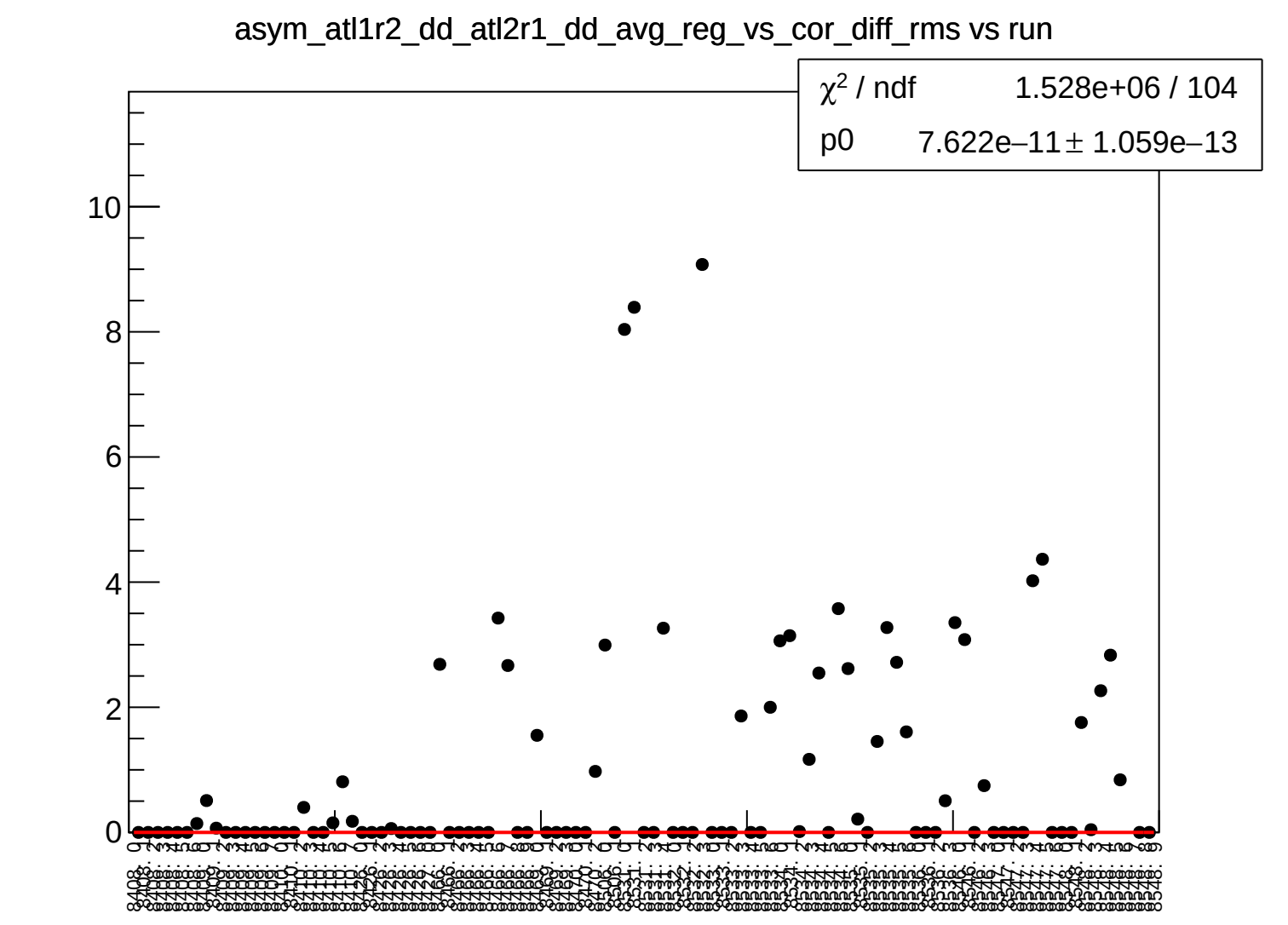

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.783e+05 / 104
p0 519.5 ± 0.4023
1800
1600
1400
1200
1000
800
600
400

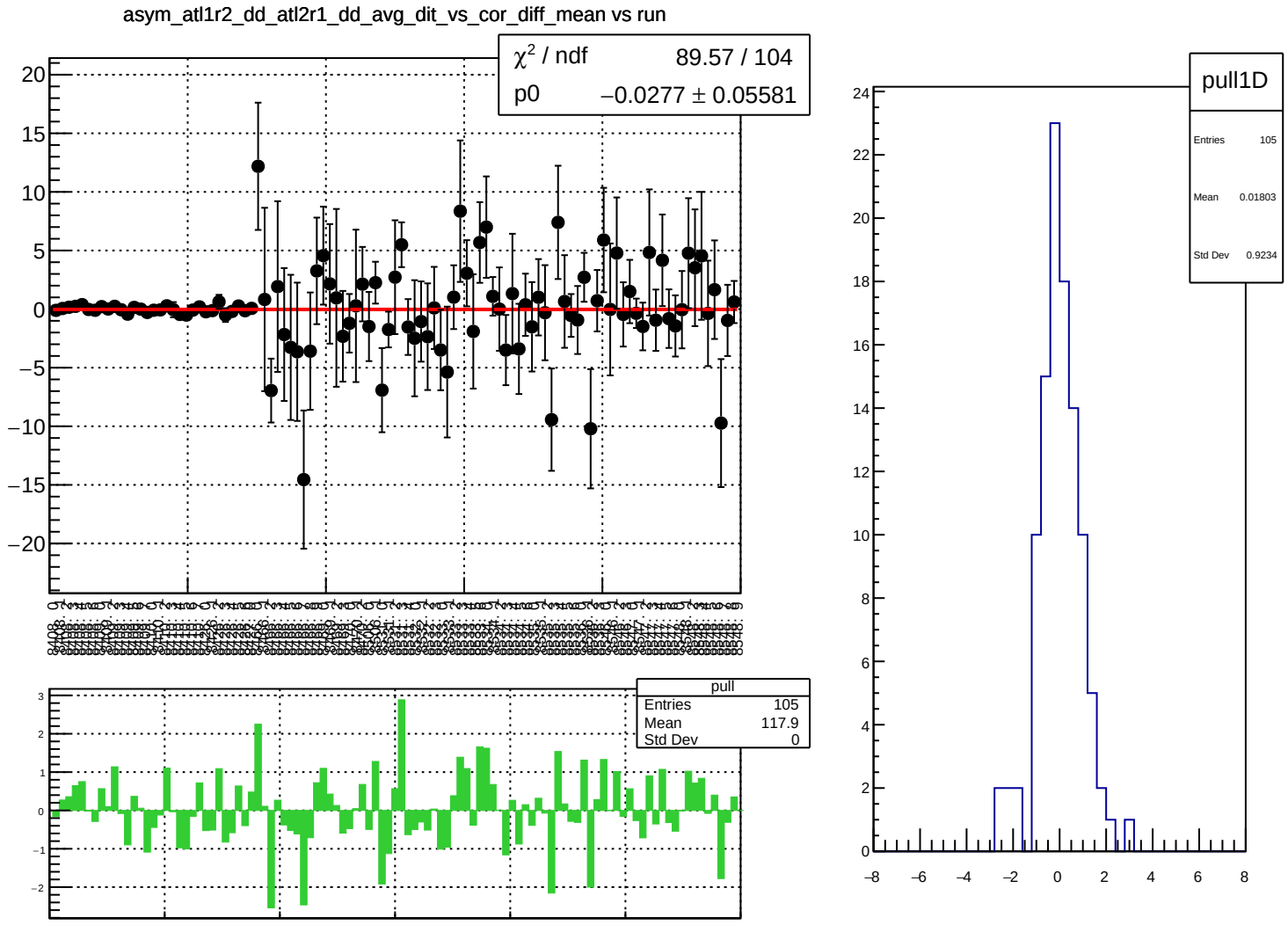

asym_atl1r2_dd_atl2r1_dd_avg_mean vs run
×10^3
χ^2 / ndf 74.99 / 104
p0 518.8 ± 3549
400
200
0
−200
−400
−600
−800
pull
Entries 105
Mean 66.45
Std Dev 13.45
1
0
−1
−2
−3

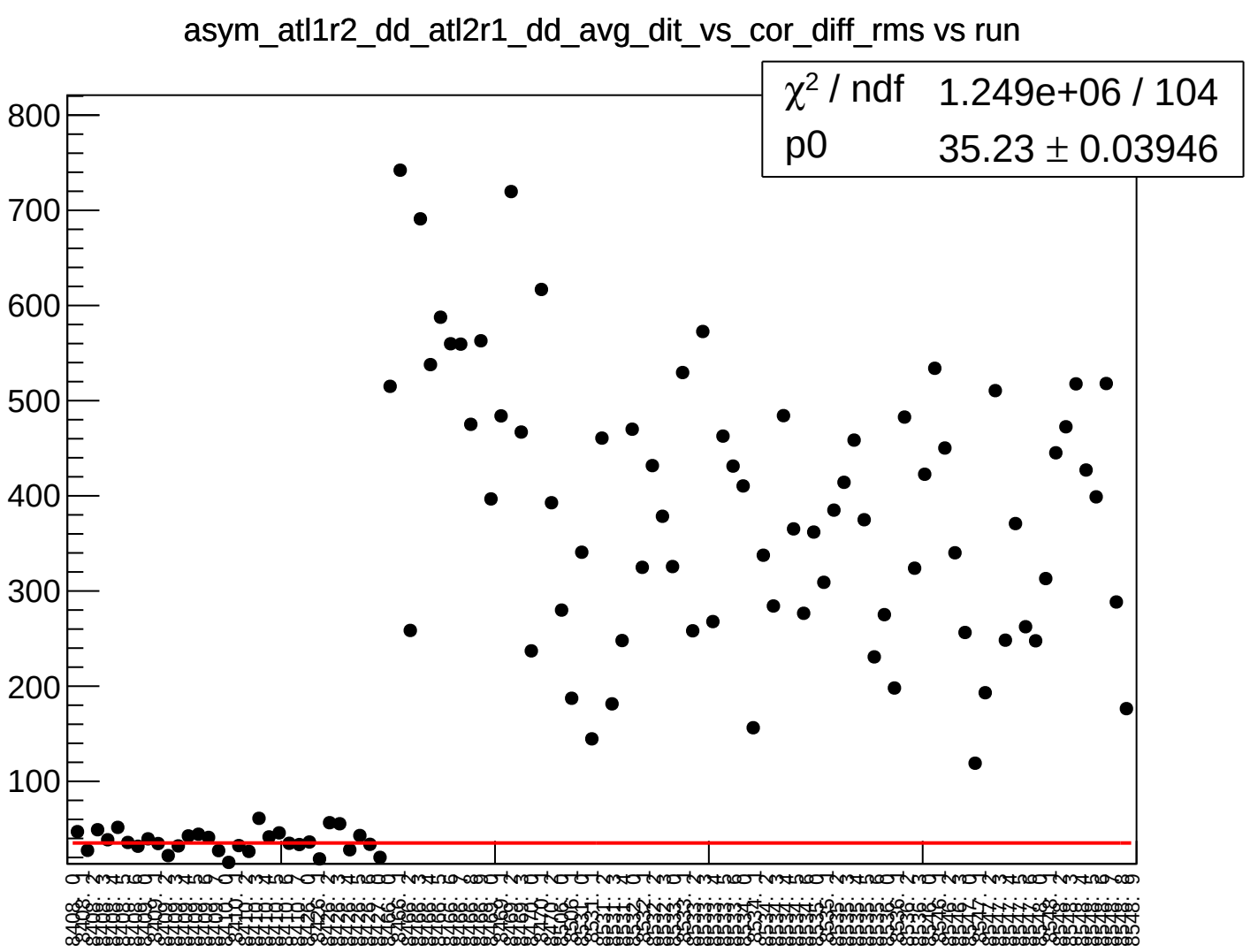

pull1D
Entries 105
Mean −0.05203
Std Dev 0.8435
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

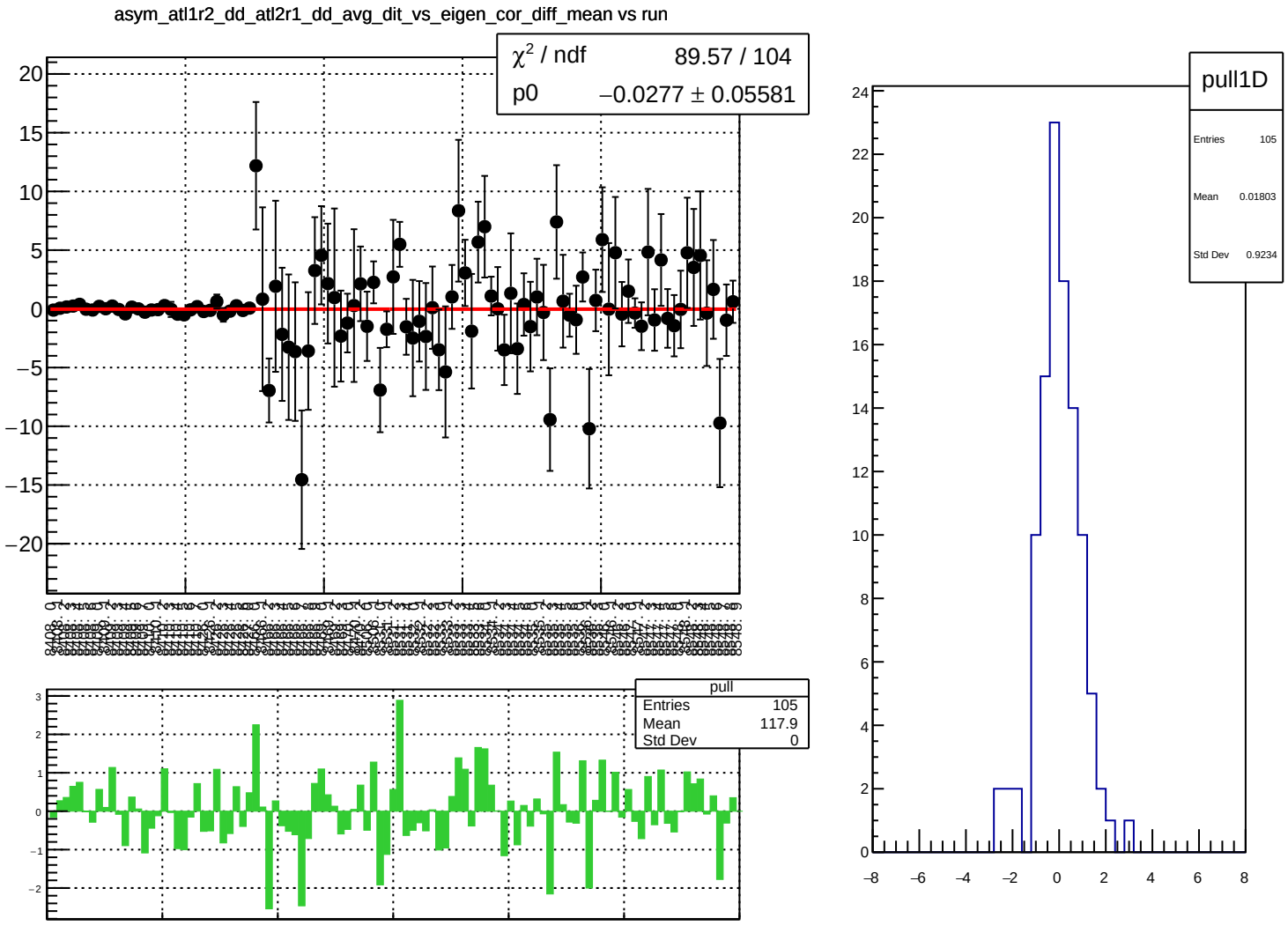

asym_atl1r2_dd_atl2r1_dd_avg_rms vs run
χ² / ndf 1.067e+06 / 104
p0 2483 ± 2.51
18000
16000
14000
12000
10000
8000
6000
4000
2000

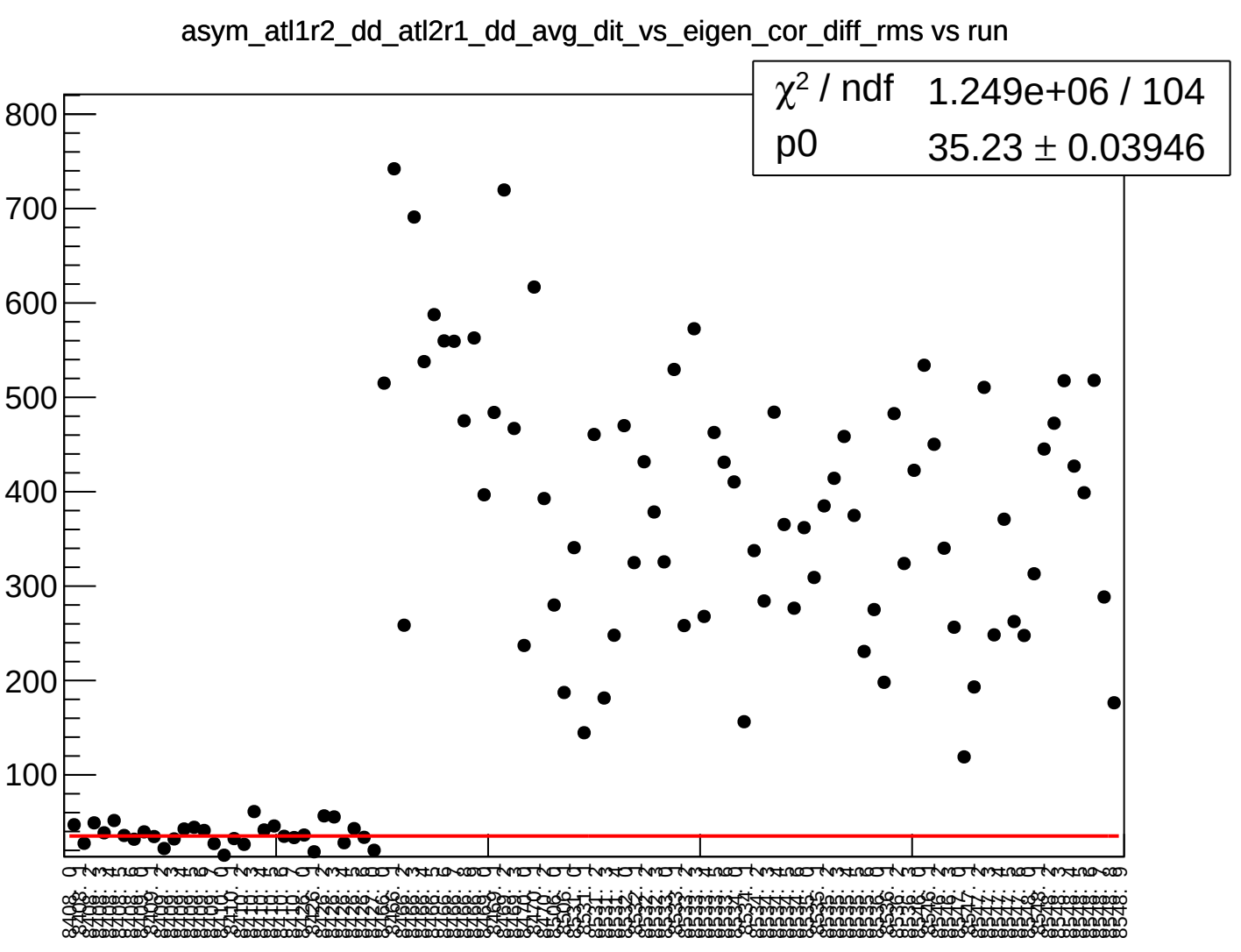

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 112.5 / 104
p0 −1.337e−13 ± 1.498e−13
pull
Entries 105
Mean 26.69
Std Dev 57.18
pull1D
Entries 105
Mean −0.03908
Std Dev 1.034

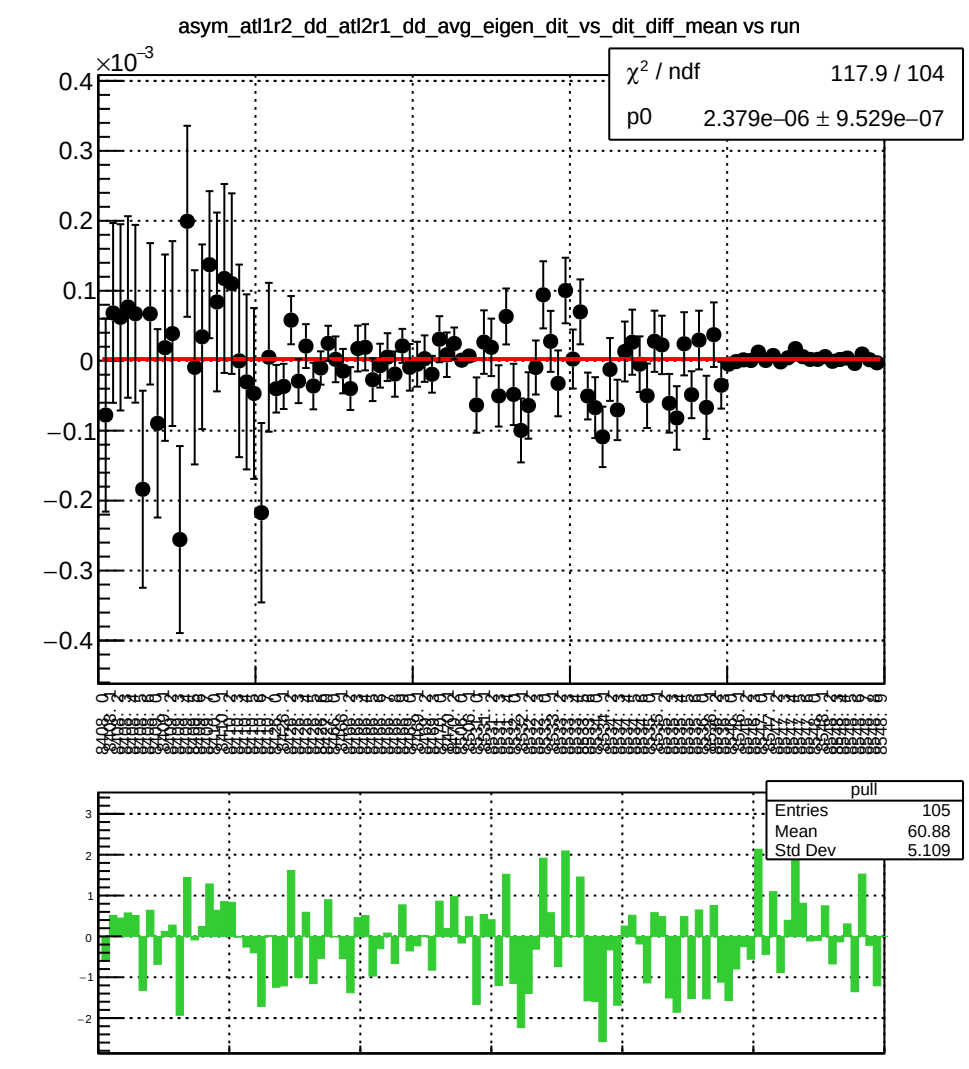

asym_atl1r2_dd_atl2r1_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.528e+06 / 104
p0 7.622e−11 ± 1.059e−13
0
2
4
6
8
10

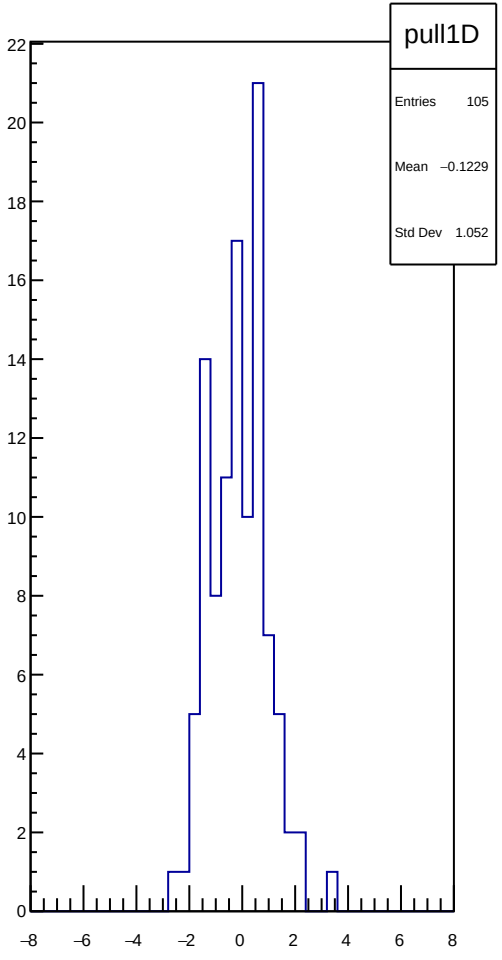

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 89.57 / 104
p0 −0.0277 ± 0.05581
pull
Entries 105
Mean 117.9
Std Dev 0
pull1D
Entries 105
Mean 0.01803
Std Dev 0.9234

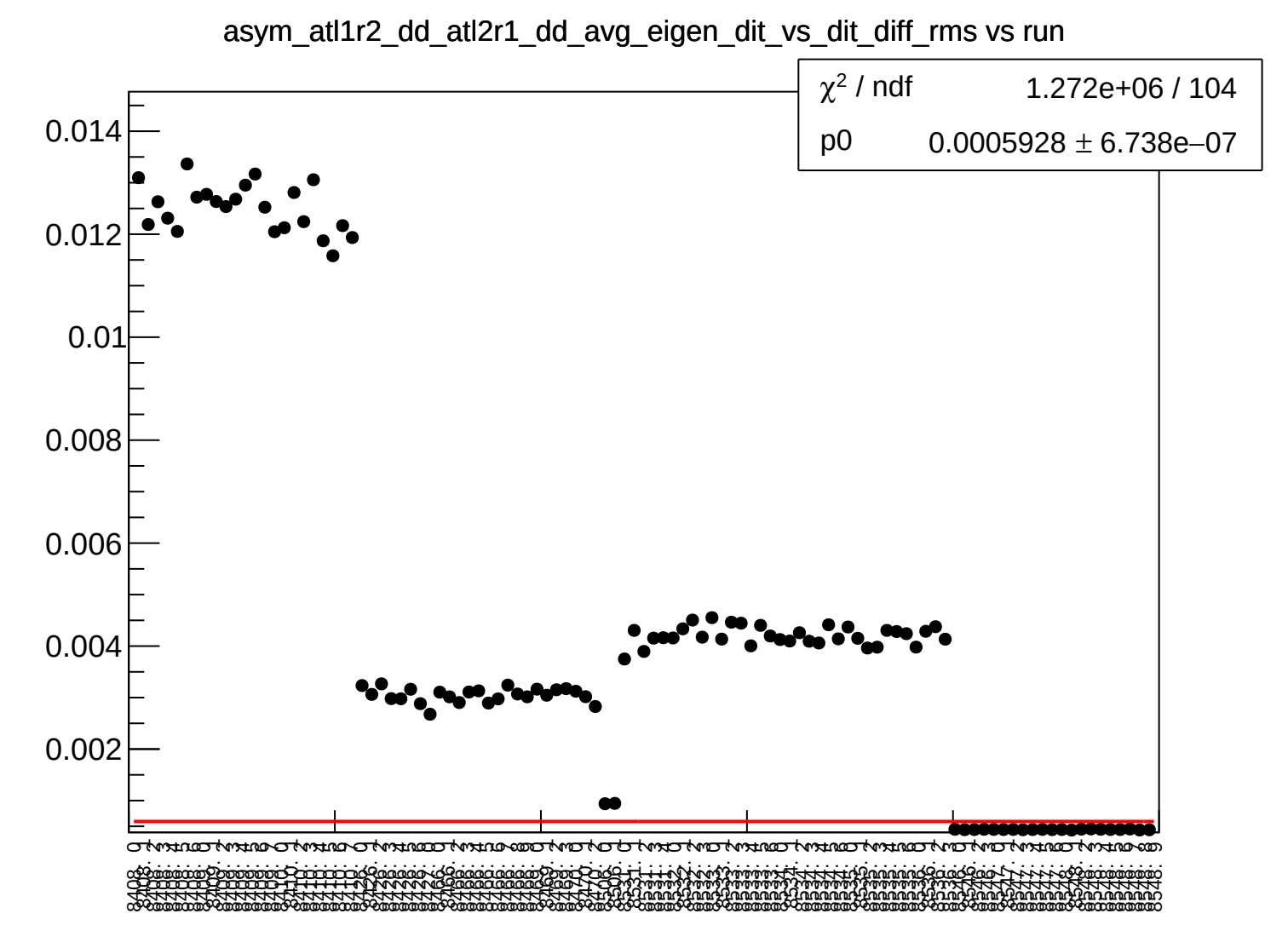

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.249e+06 / 104
p0 35.23 ± 0.03946
800
700
600
500
400
300
200
100

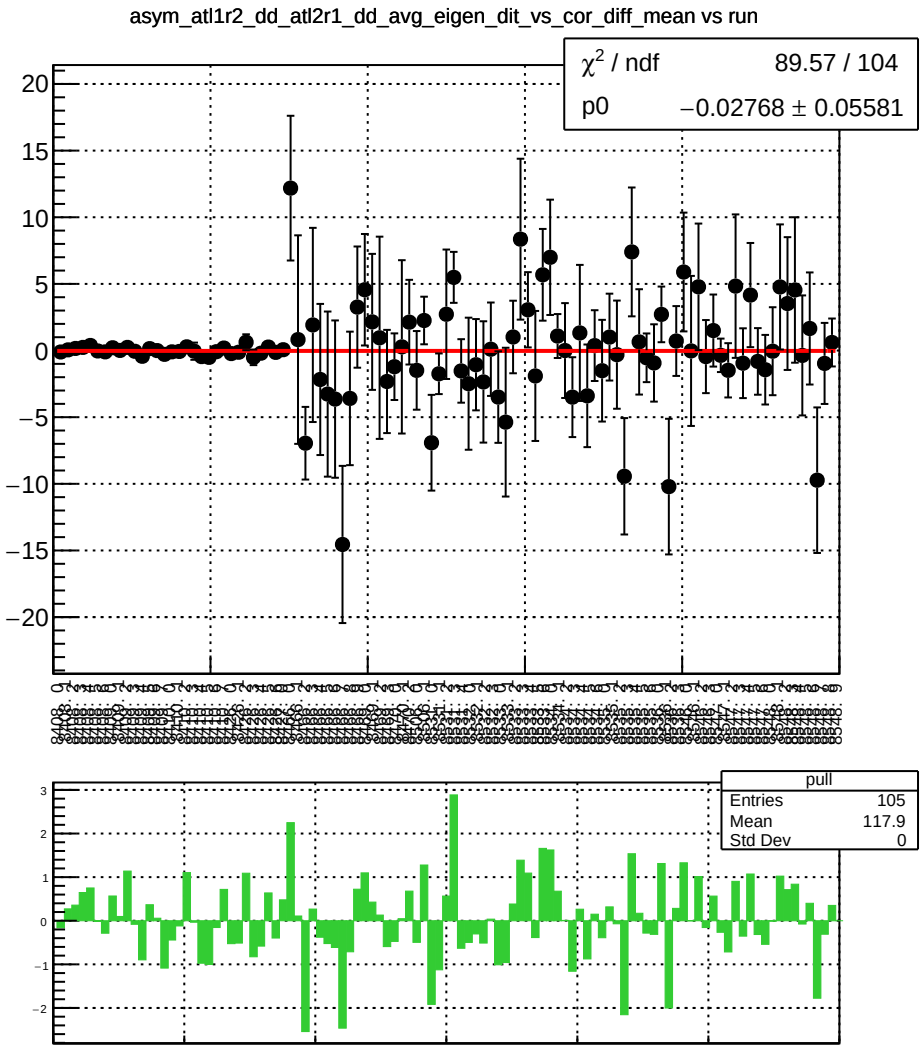

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.57 / 104
p0 −0.0277 ± 0.05581
pull
Entries 105
Mean 117.9
Std Dev 0
pull1D
Entries 105
Mean 0.01803
Std Dev 0.9234

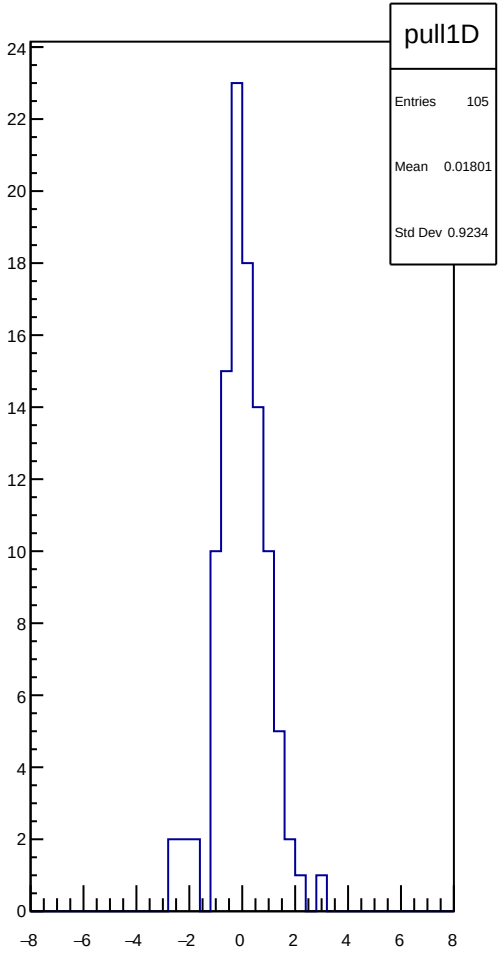

asym_atl1r2_dd_atl2r1_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.249e+06 / 104
p0 35.23 ± 0.03946
800
700
600
500
400
300
200
100

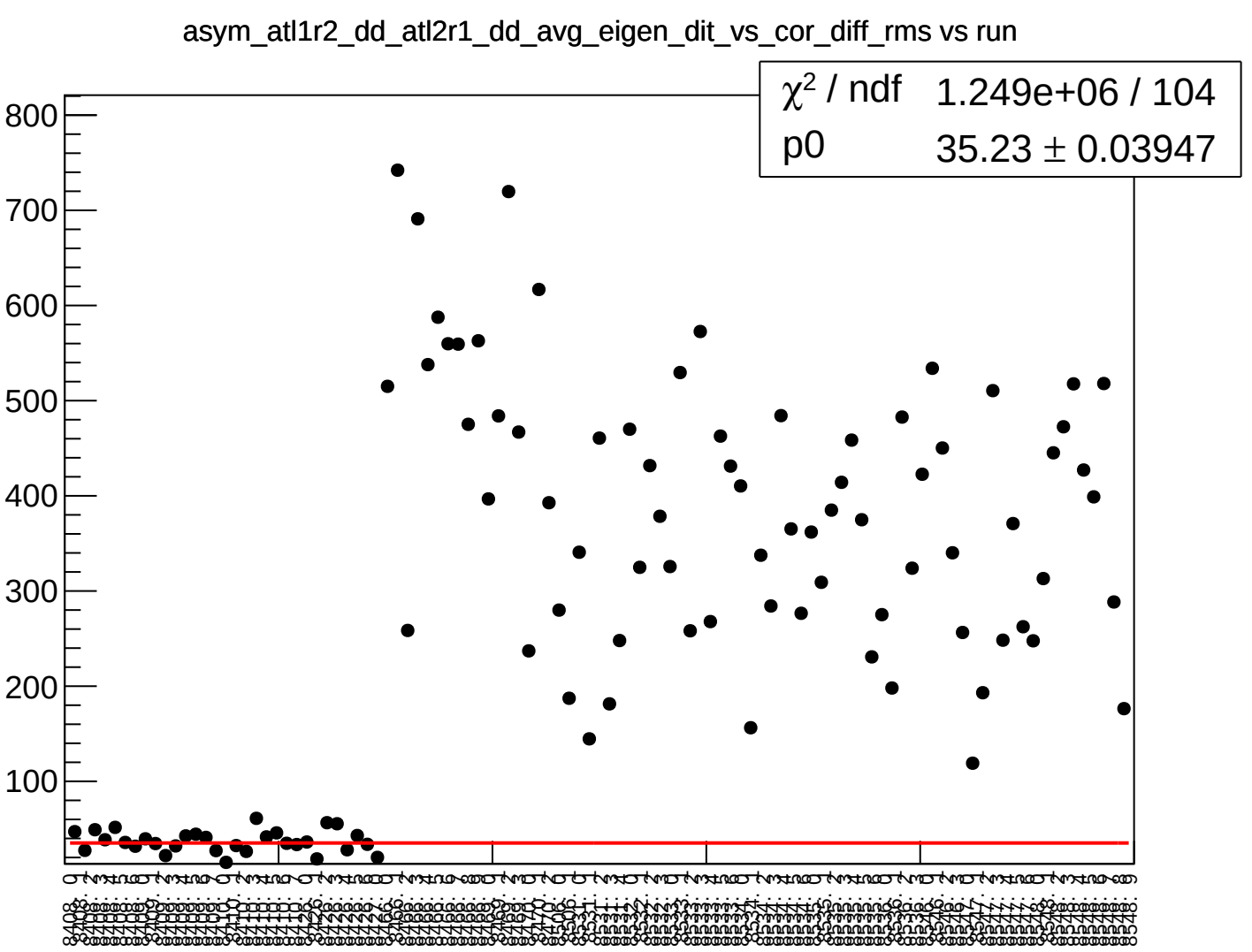

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 117.9 / 104
p0 2.379e−06 ± 9.529e−07
pull
Entries 105
Mean 60.88
Std Dev 5.109

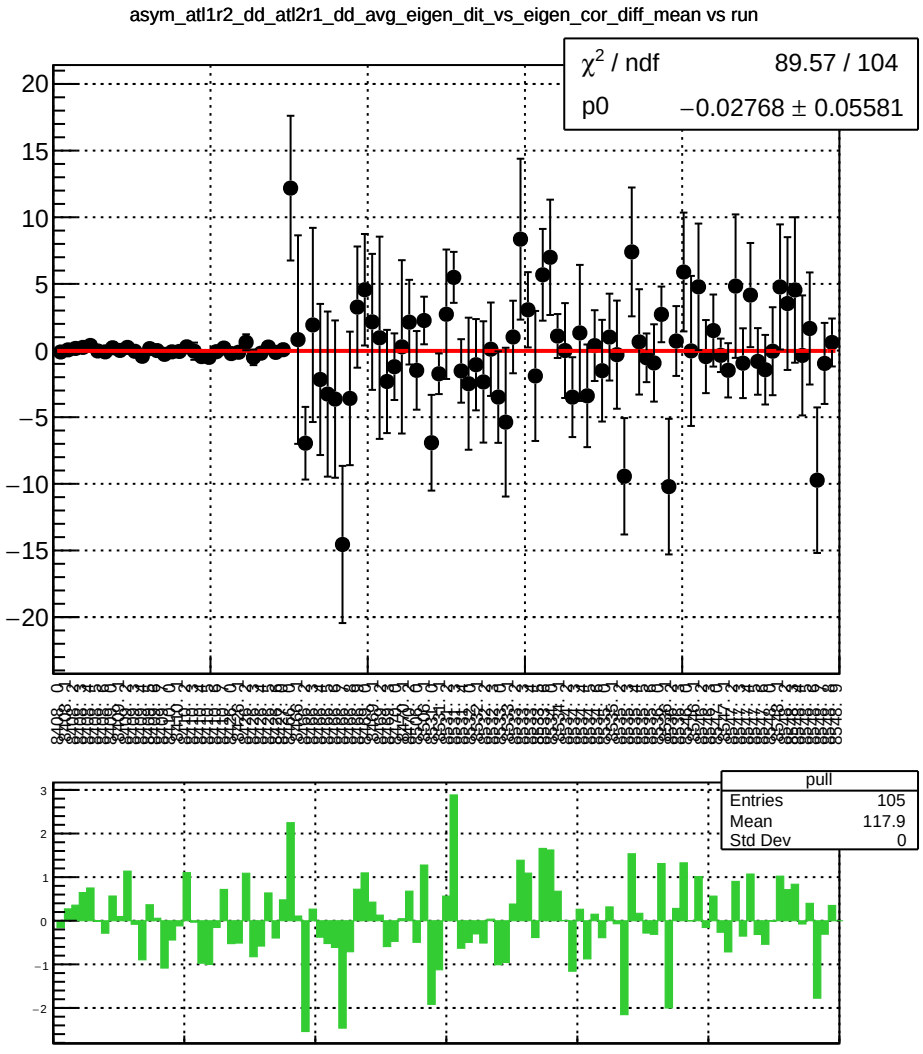

pull1D
Entries 105
Mean −0.1229
Std Dev 1.052

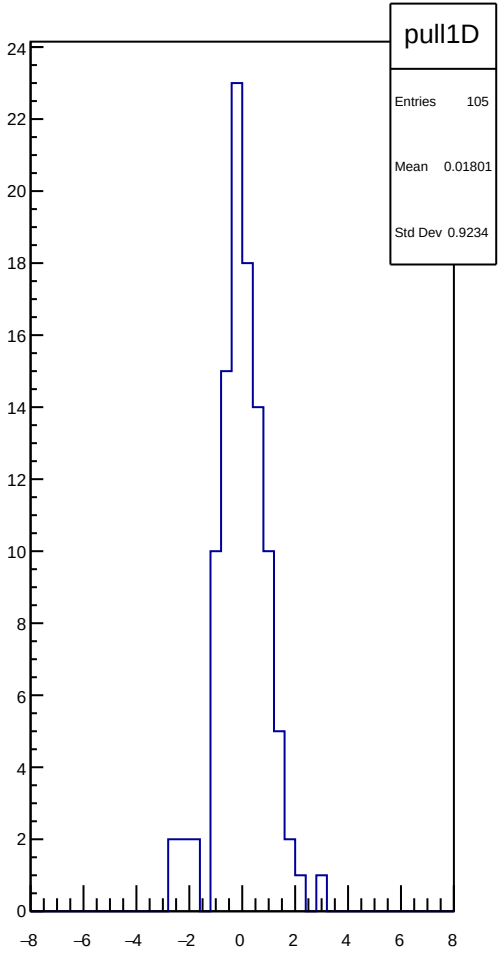

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.272e+06 / 104
p0 0.0005928 ± 6.738e−07
0.014
0.012
0.01
0.008
0.006
0.004
0.002

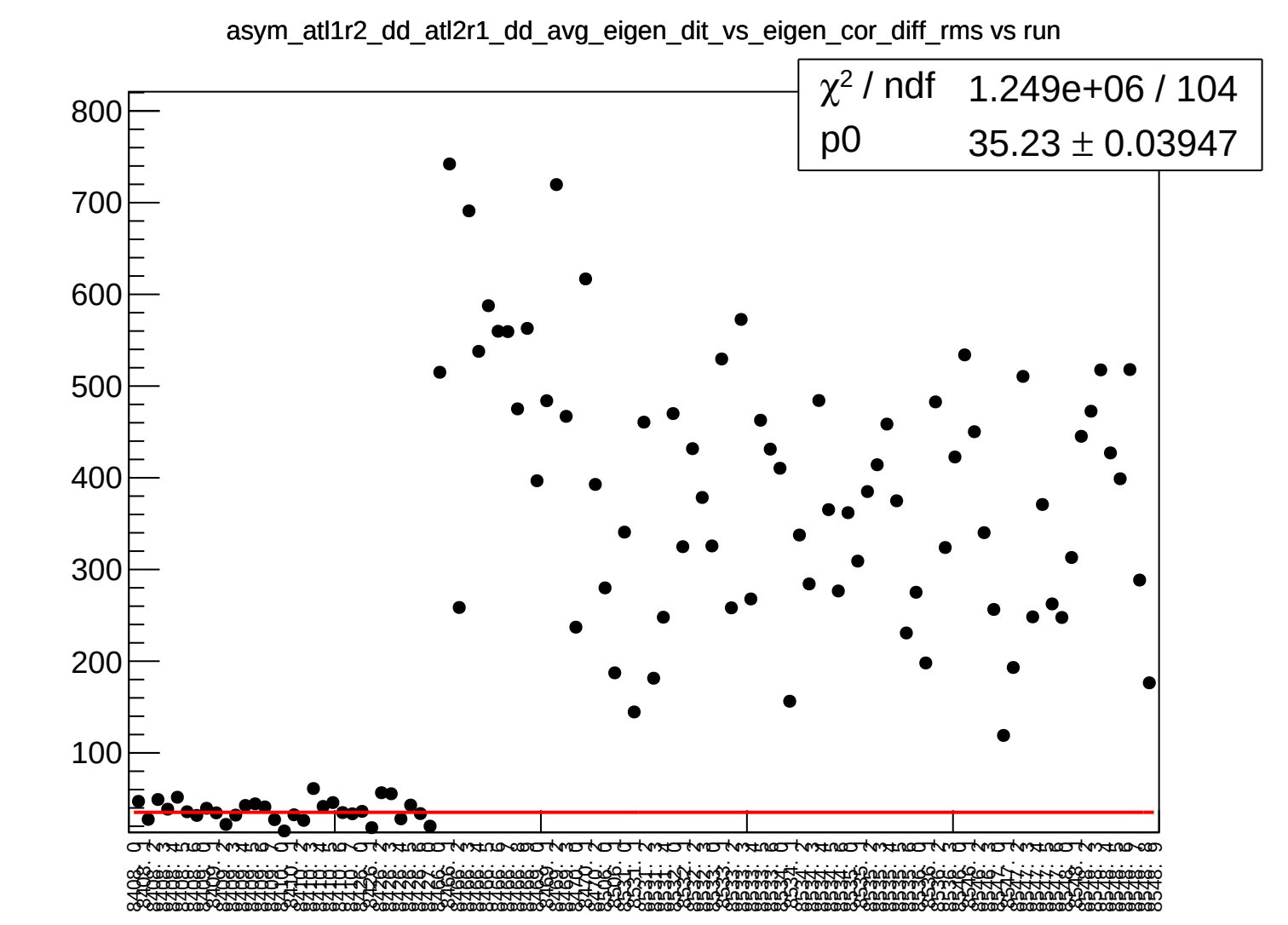

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.57 / 104
p0 −0.02768 ± 0.05581
pull
Entries 105
Mean 117.9
Std Dev 0

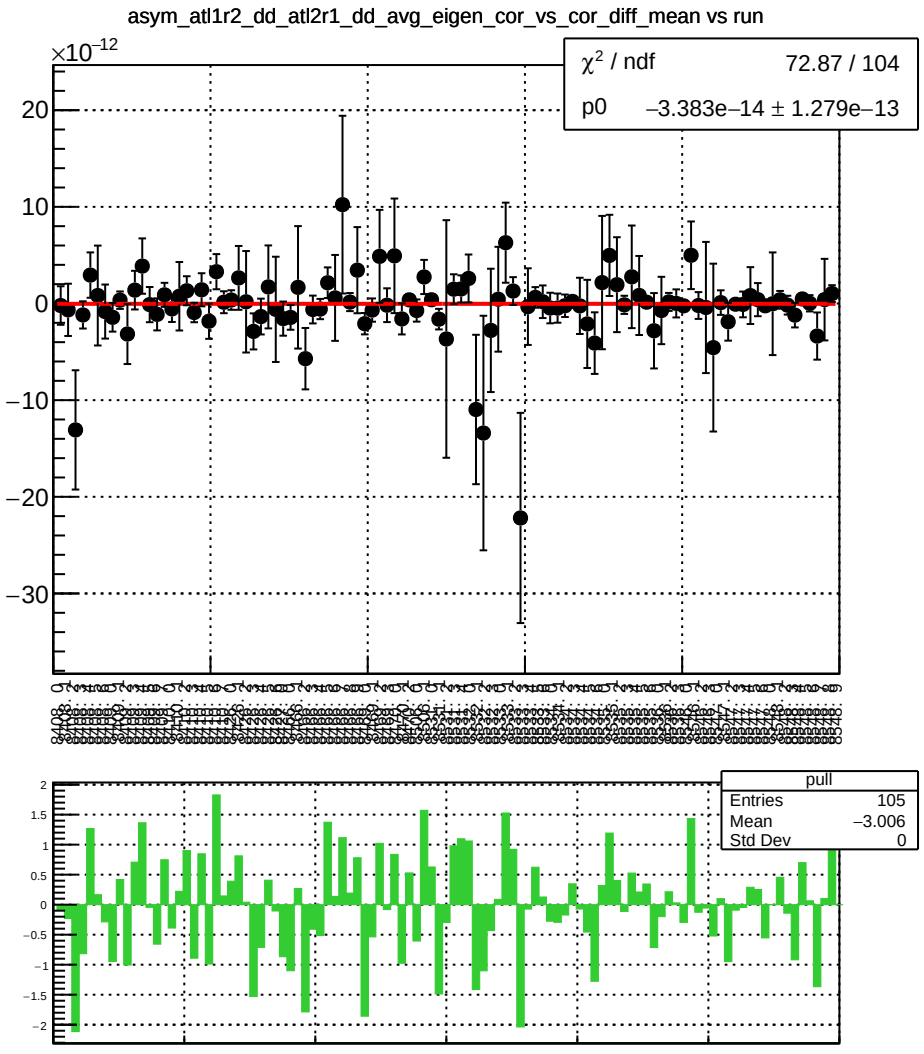

pull1D
Entries 105
Mean 0.01801
Std Dev 0.9234

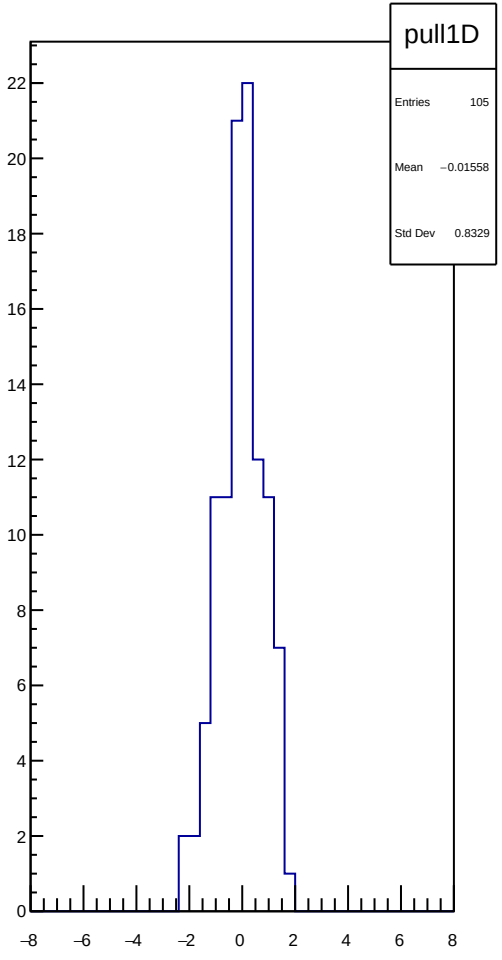

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.249e+06 / 104
p0 35.23 ± 0.03947
800
700
600
500
400
300
200
100

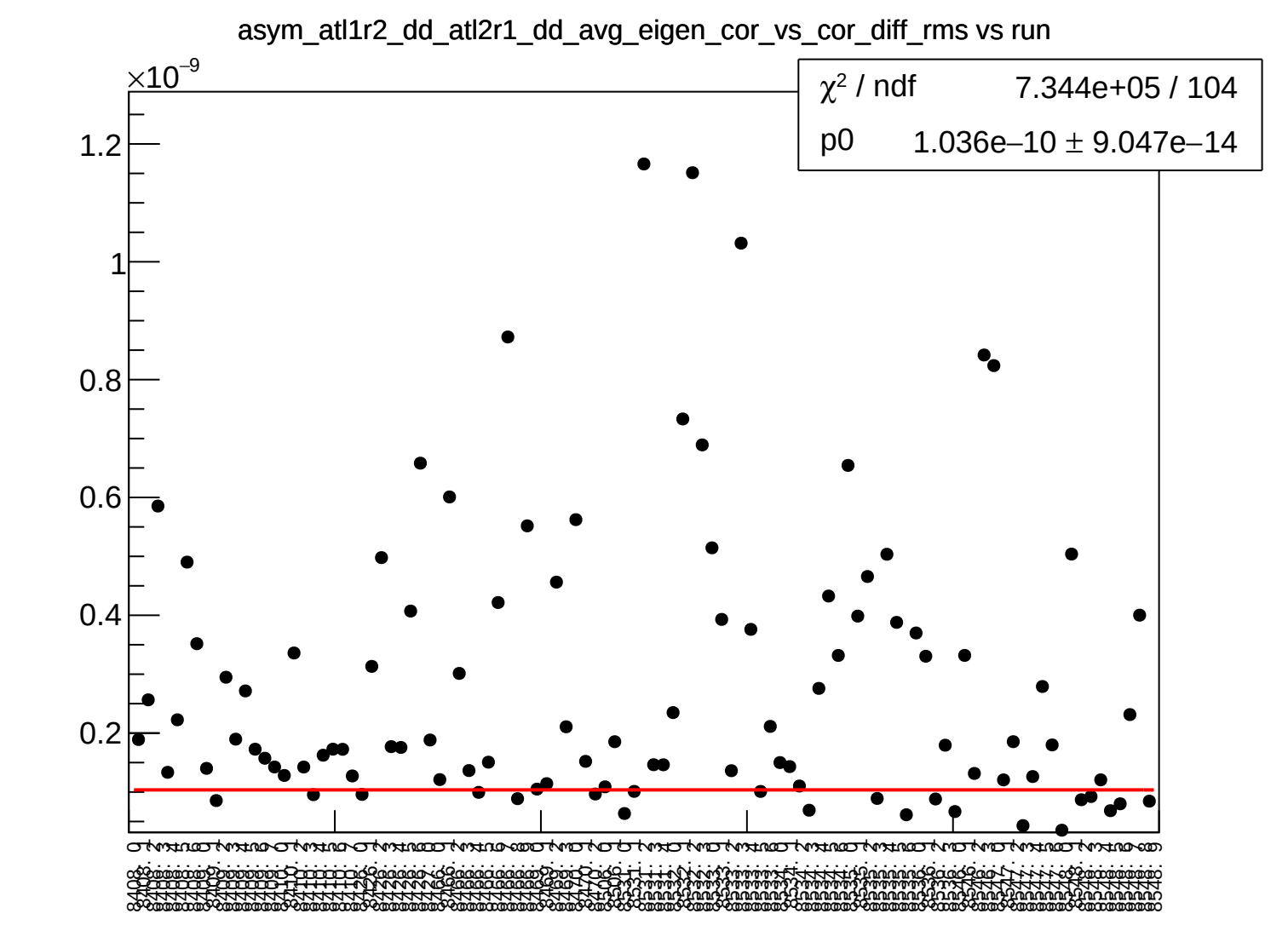

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.57 / 104
p0 −0.02768 ± 0.05581
pull
Entries 105
Mean 117.9
Std Dev 0

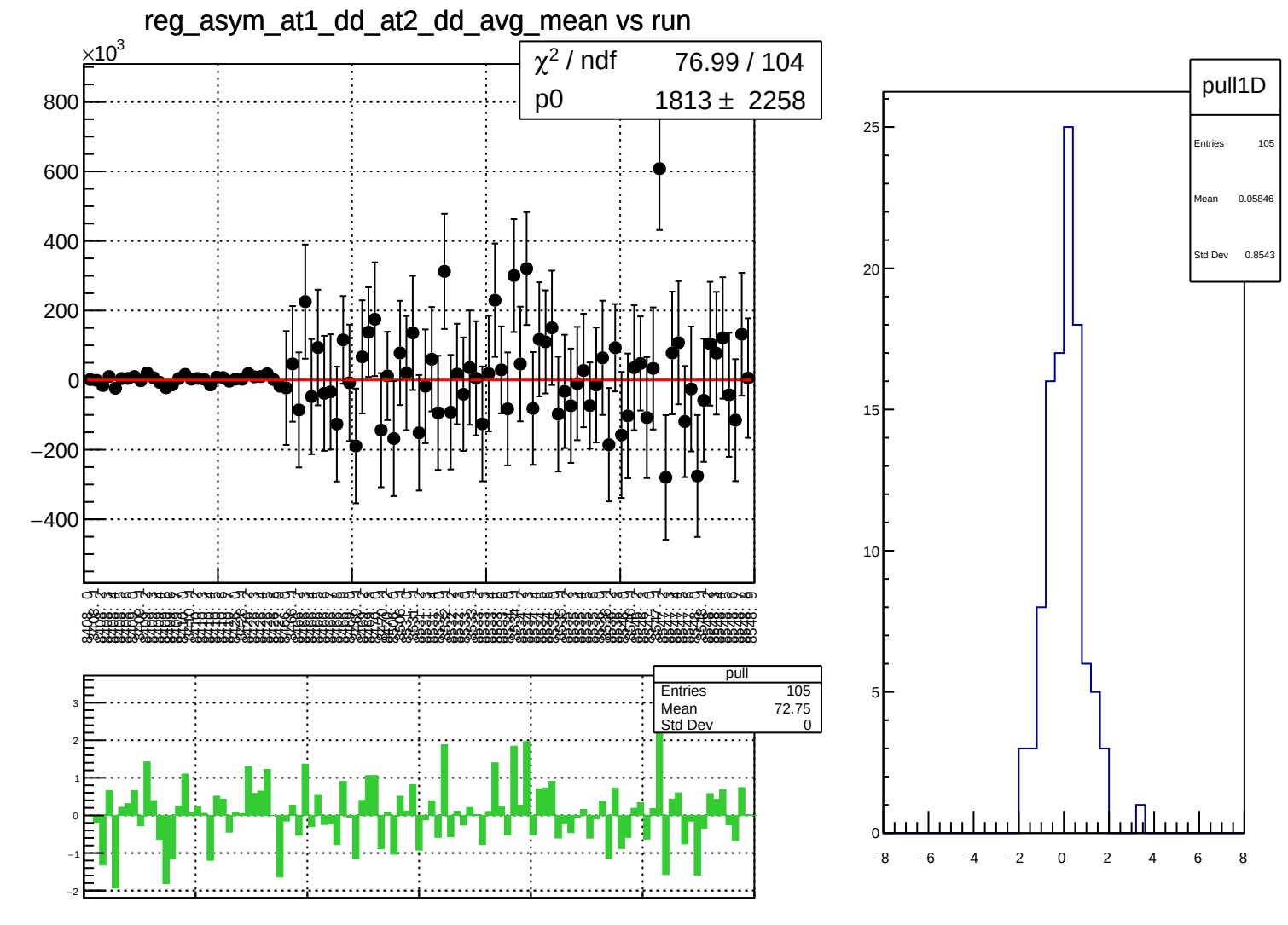

pull1D
Entries 105
Mean 0.01801
Std Dev 0.9234

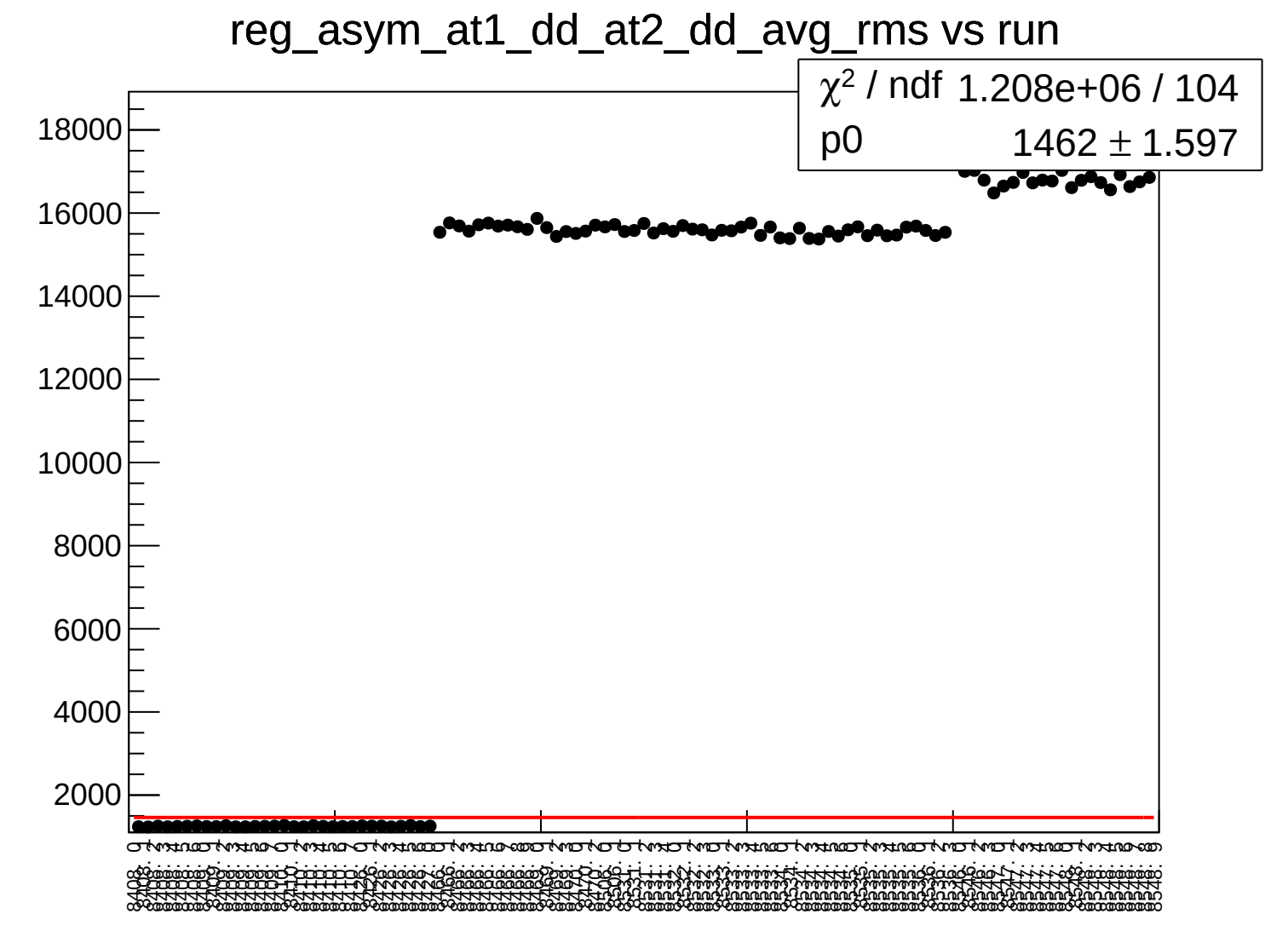

asym_atl1r2_dd_atl2r1_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.249e+06 / 104
p0 35.23 ± 0.03947
800
700
600
500
400
300
200
100

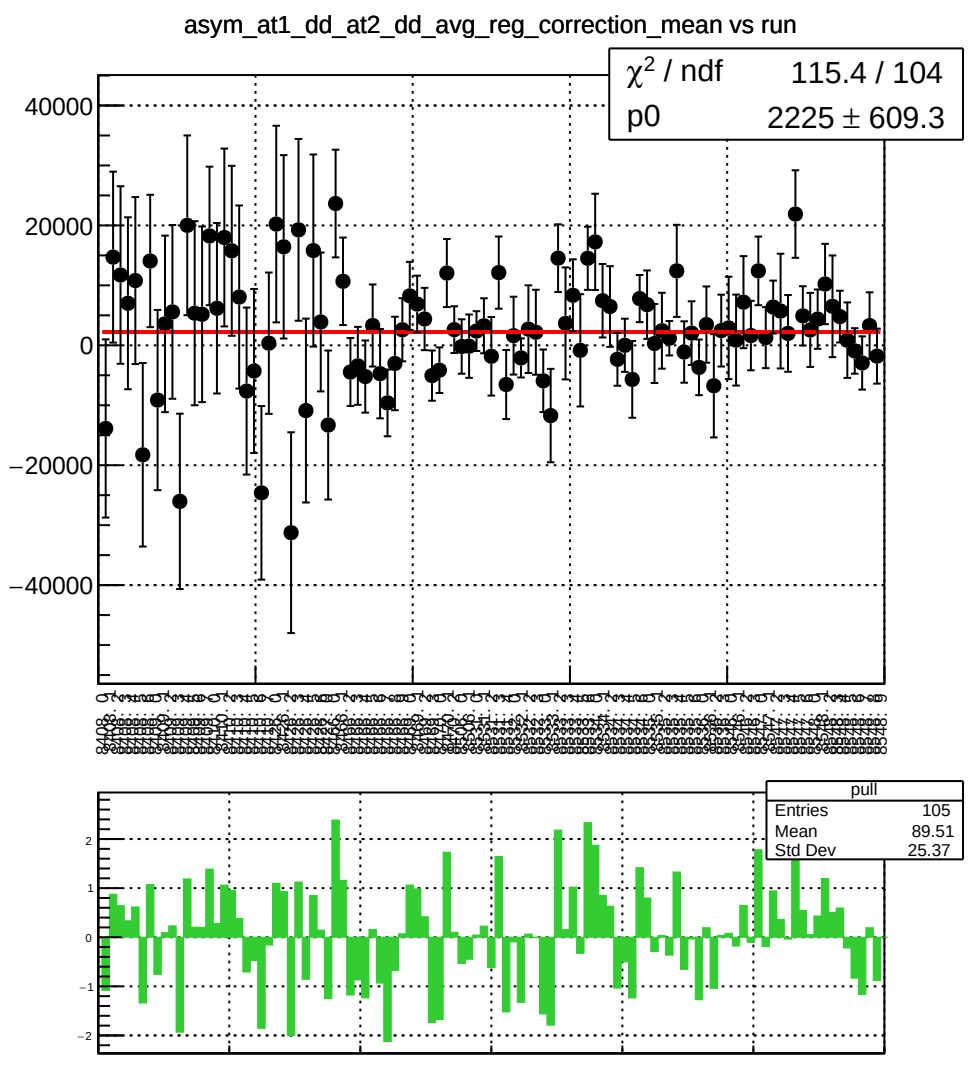

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 72.87 / 104
p0 −3.383e−14 ± 1.279e−13
20
10
0
−10
−20
−30
pull
Entries 105
Mean −3.006
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

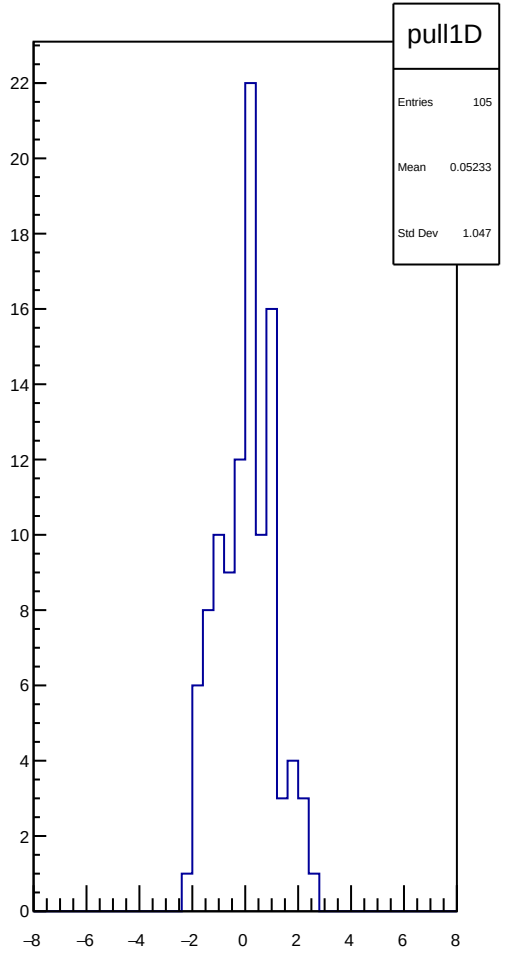

pull1D
Entries 105
Mean −0.01558
Std Dev 0.8329
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

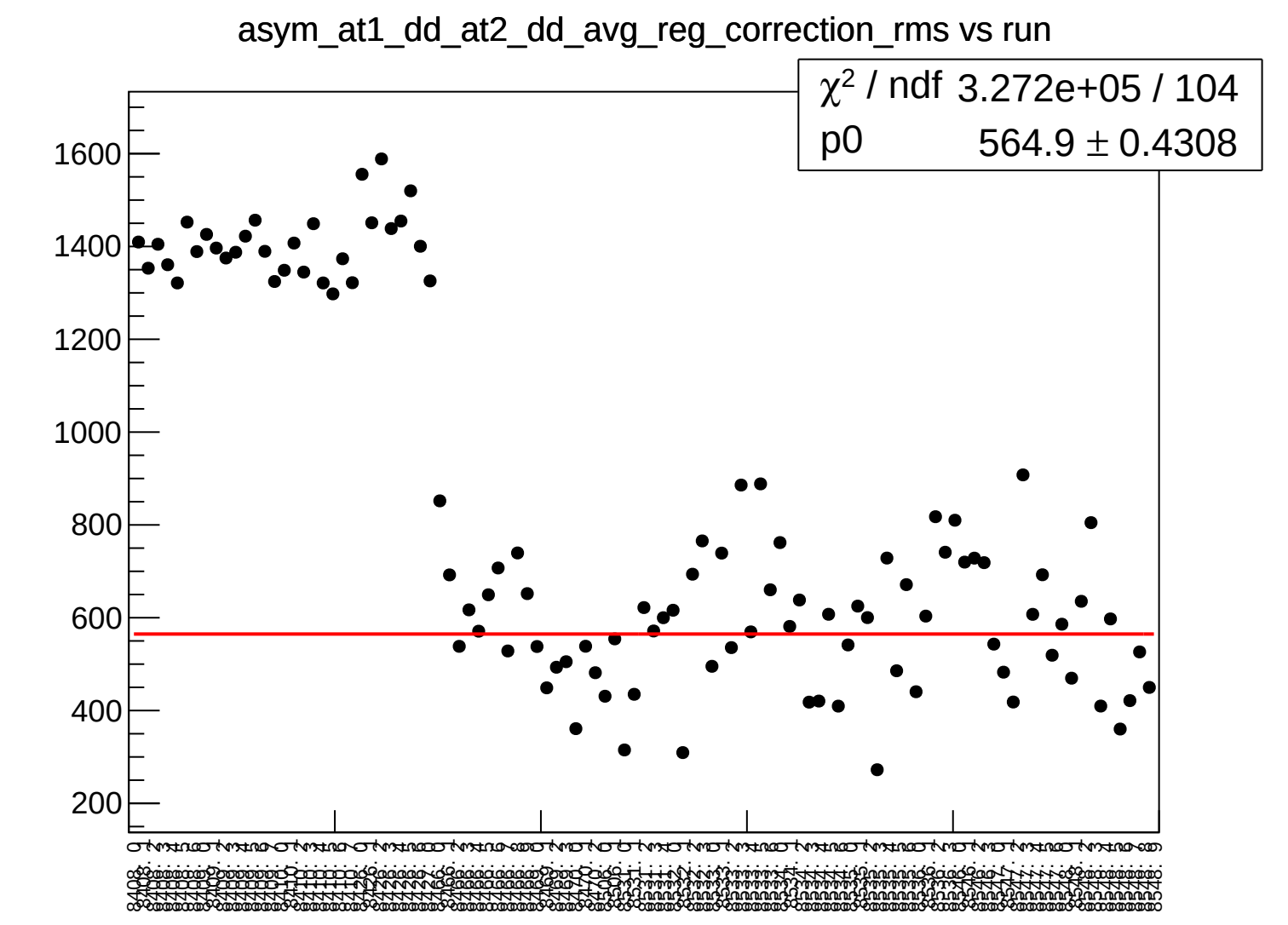

asym_atl1r2_dd_atl2r1_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.344e+05 / 104
p0 1.036e−10 ± 9.047e−14
1.2
1
0.8
0.6
0.4
0.2

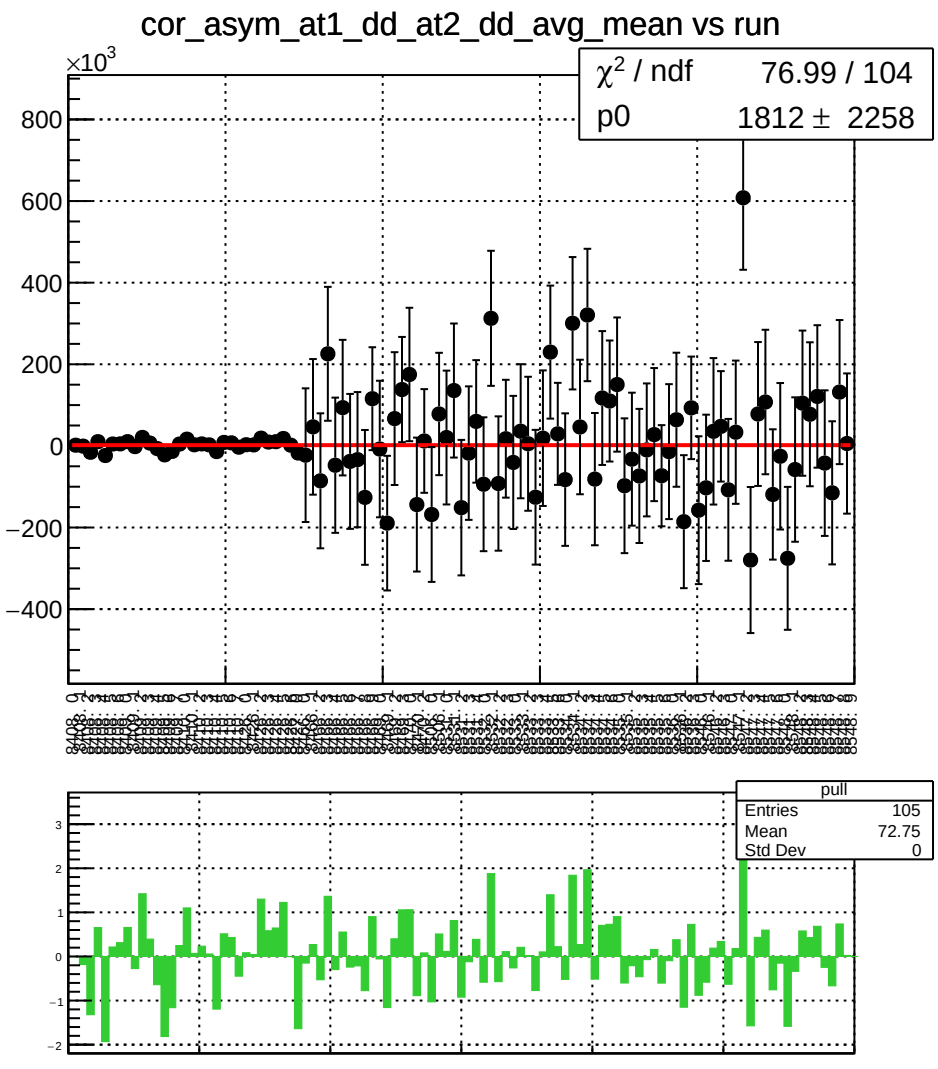

reg_asym_at1_dd_at2_dd_avg_mean vs run
×10^3
χ^2 / ndf 76.99 / 104
p0 1813 ± 2258
800
600
400
200
0
−200
−400
pull
Entries 105
Mean 72.75
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.05846
Std Dev 0.8543
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

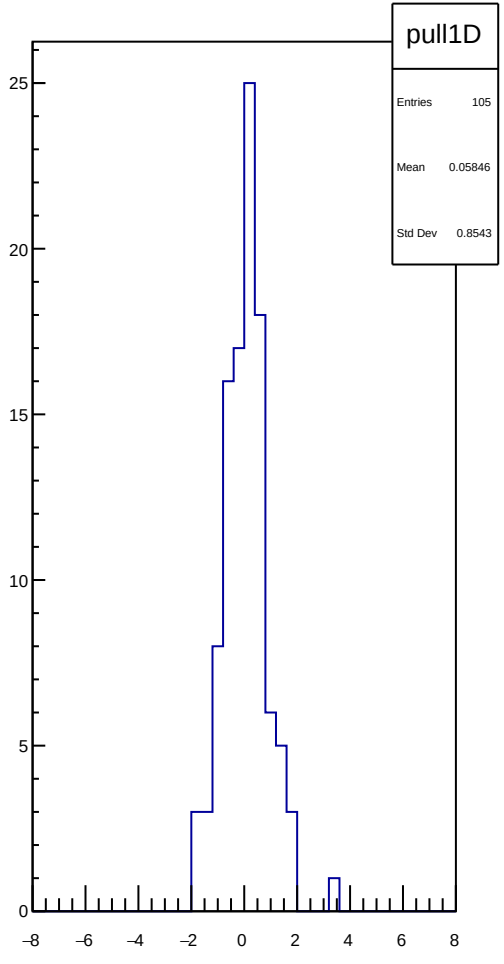

reg_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 1.208e+06 / 104
p0 1462 ± 1.597
18000
16000
14000
12000
10000
8000
6000
4000
2000

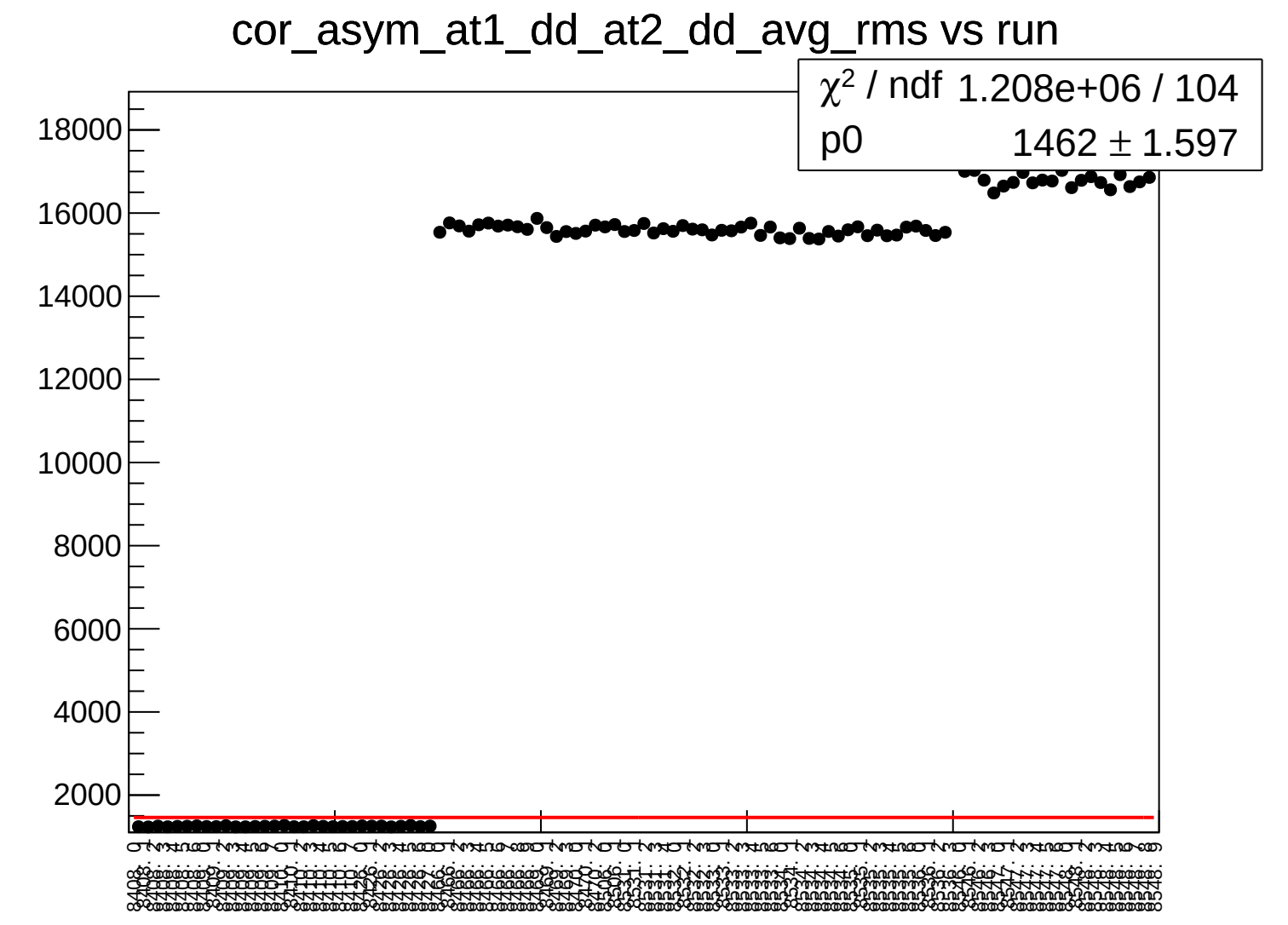

asym_at1_dd_at2_dd_avg_reg_correction_mean vs run
χ² / ndf 115.4 / 104
p0 2225 ± 609.3
40000
20000
0
−20000
−40000
pull
Entries 105
Mean 89.51
Std Dev 25.37
2
1
0
−1
−2

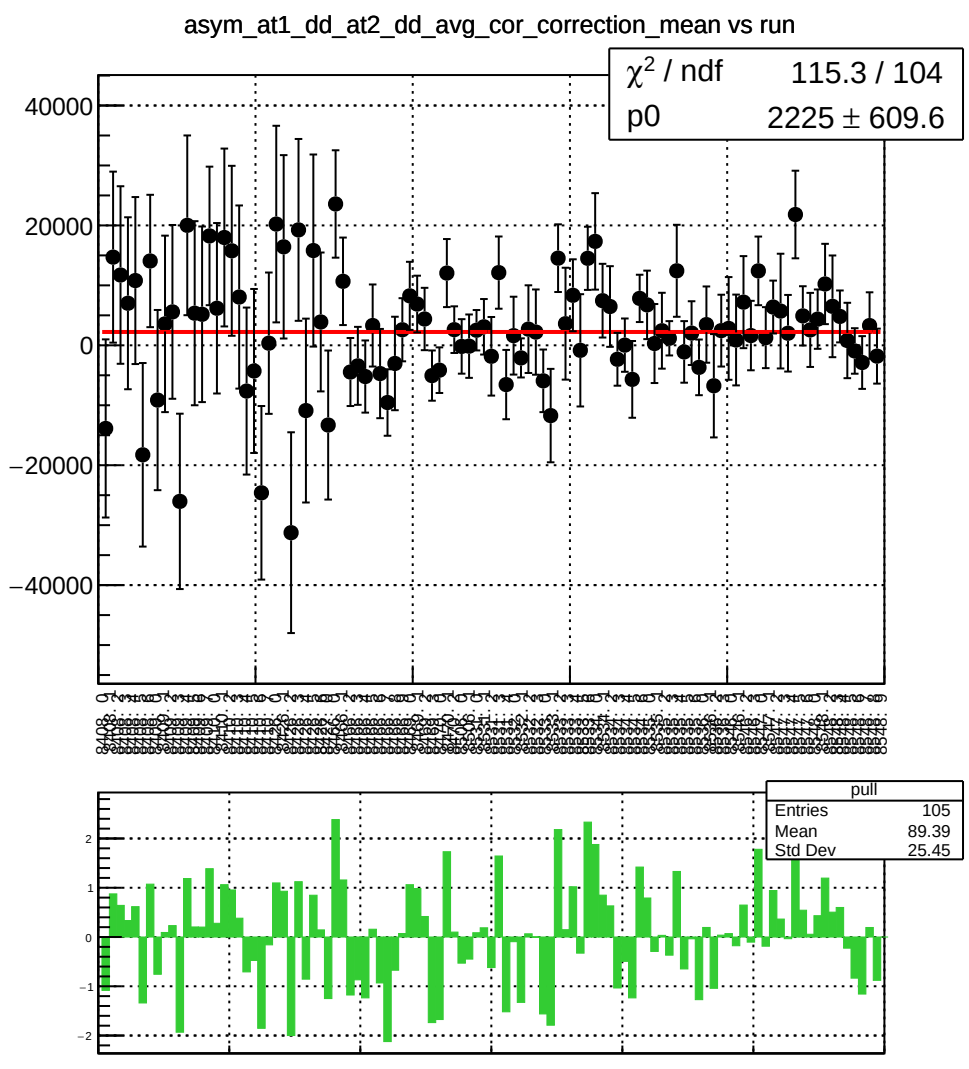

pull1D
Entries 105
Mean 0.05233
Std Dev 1.047
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

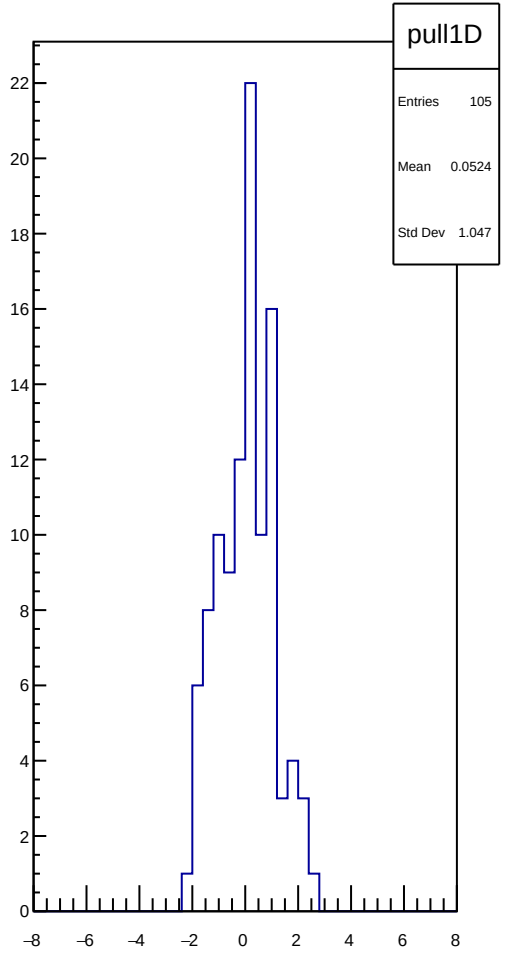

asym_at1_dd_at2_dd_avg_reg_correction_rms vs run
χ² / ndf 3.272e+05 / 104
p0 564.9 ± 0.4308
1600
1400
1200
1000
800
600
400
200

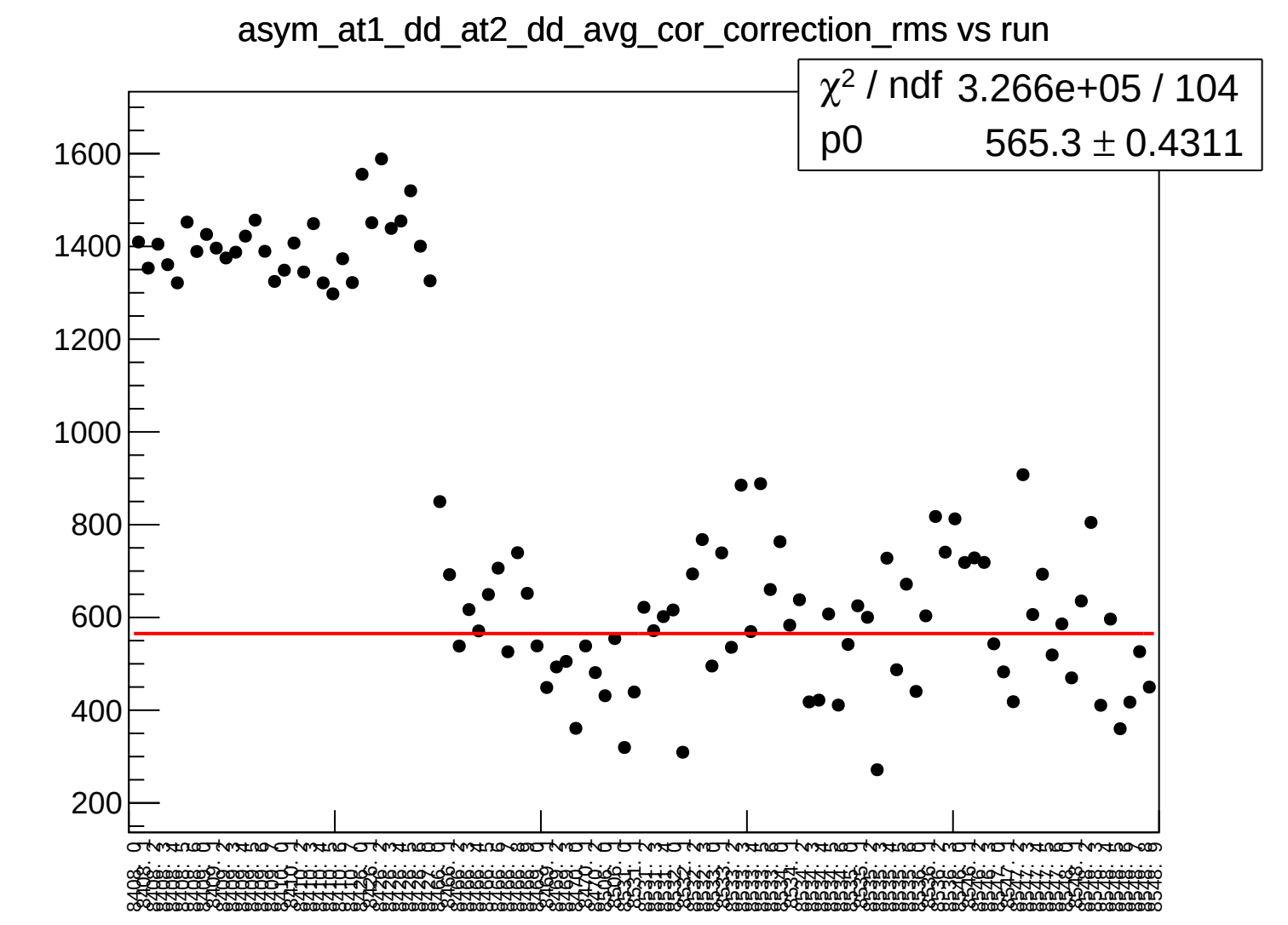

cor_asym_at1_dd_at2_dd_avg_mean vs run
×10^3
χ^2 / ndf 76.99 / 104
p0 1812 ± 2258
800
600
400
200
0
−200
−400
pull
Entries 105
Mean 72.75
Std Dev 0
3
2
1
0
−1
−2

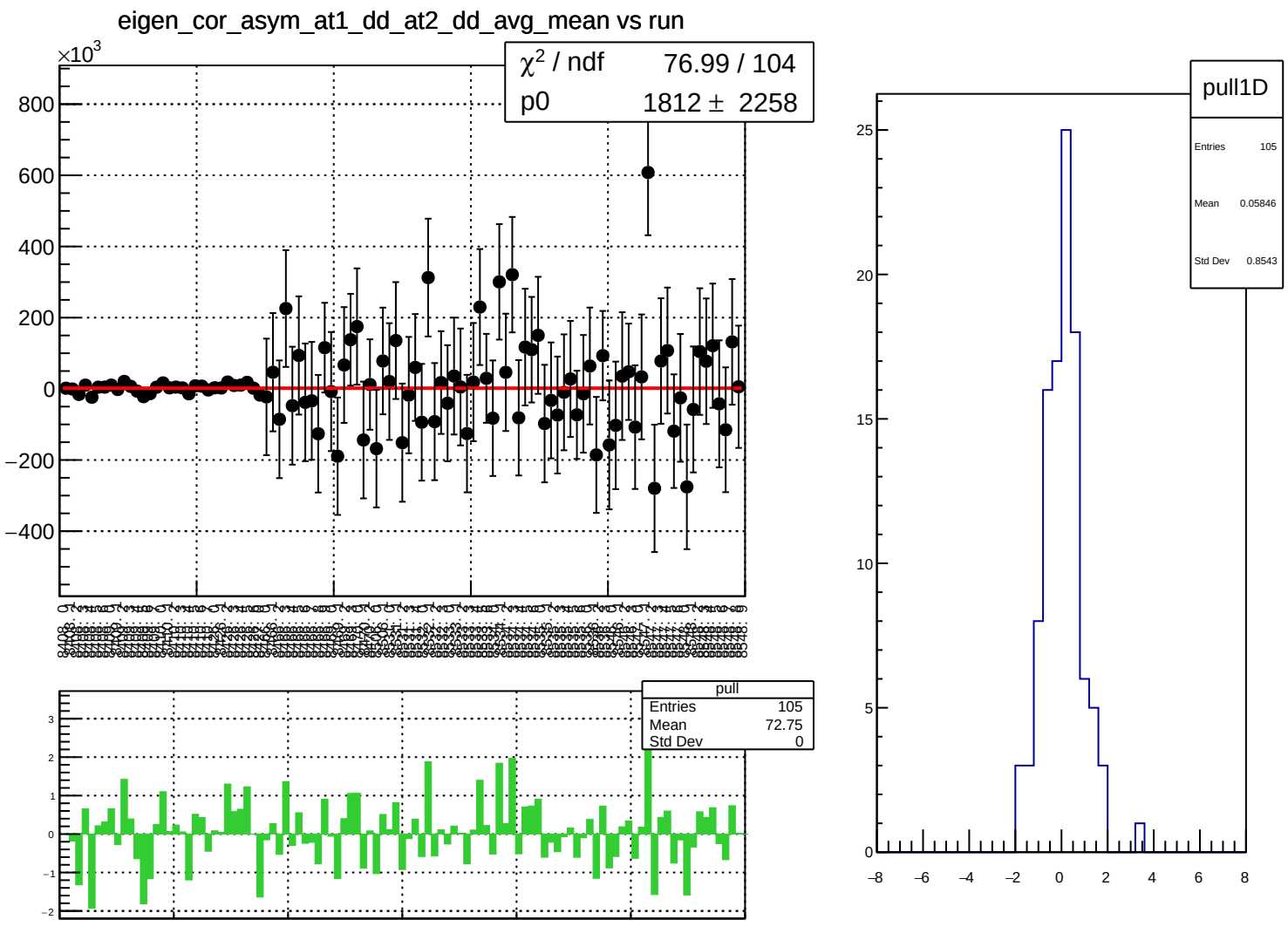

pull1D
Entries 105
Mean 0.05846
Std Dev 0.8543
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

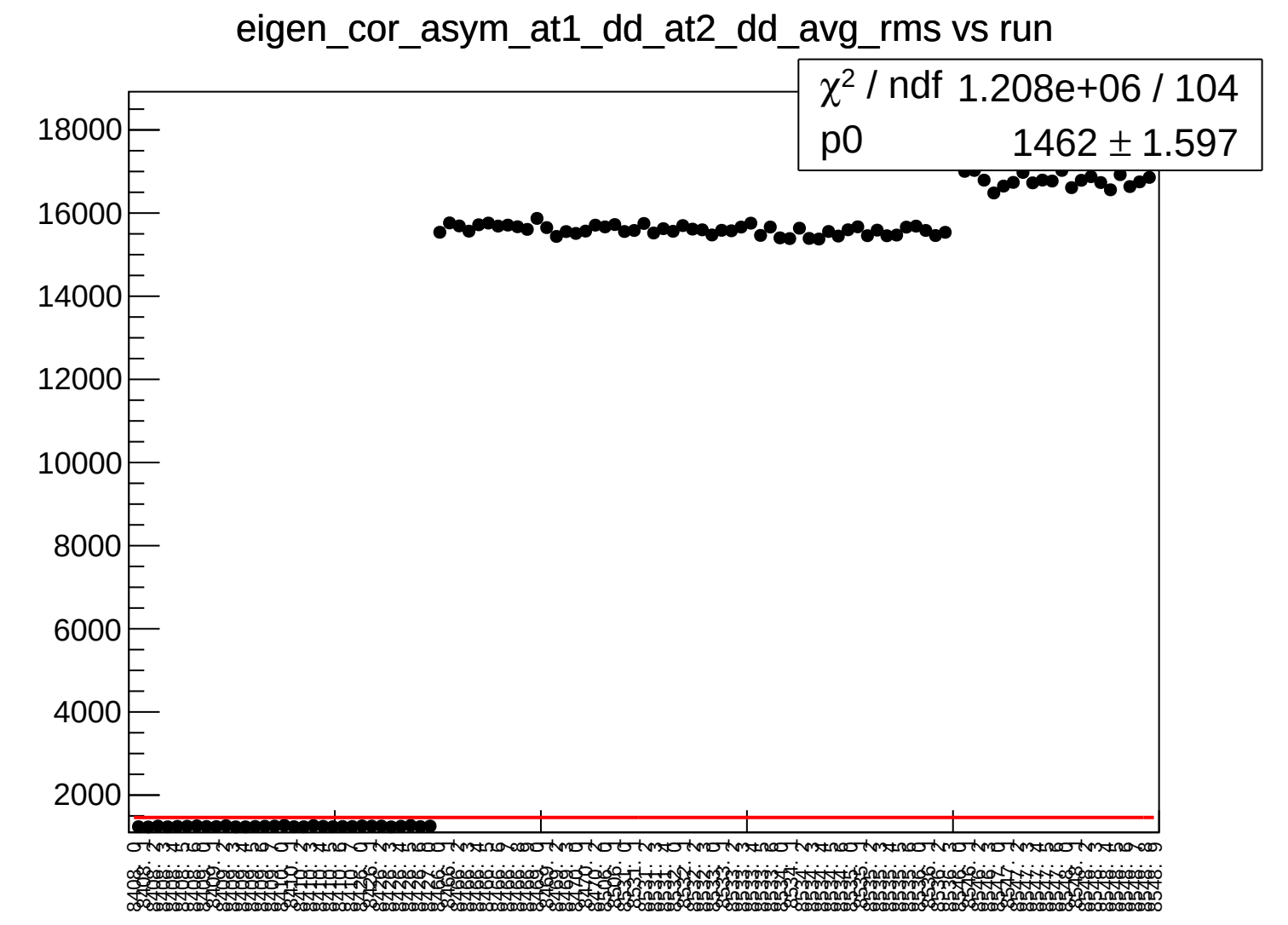

cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 1.208e+06 / 104
p0 1462 ± 1.597
18000
16000
14000
12000
10000
8000
6000
4000
2000

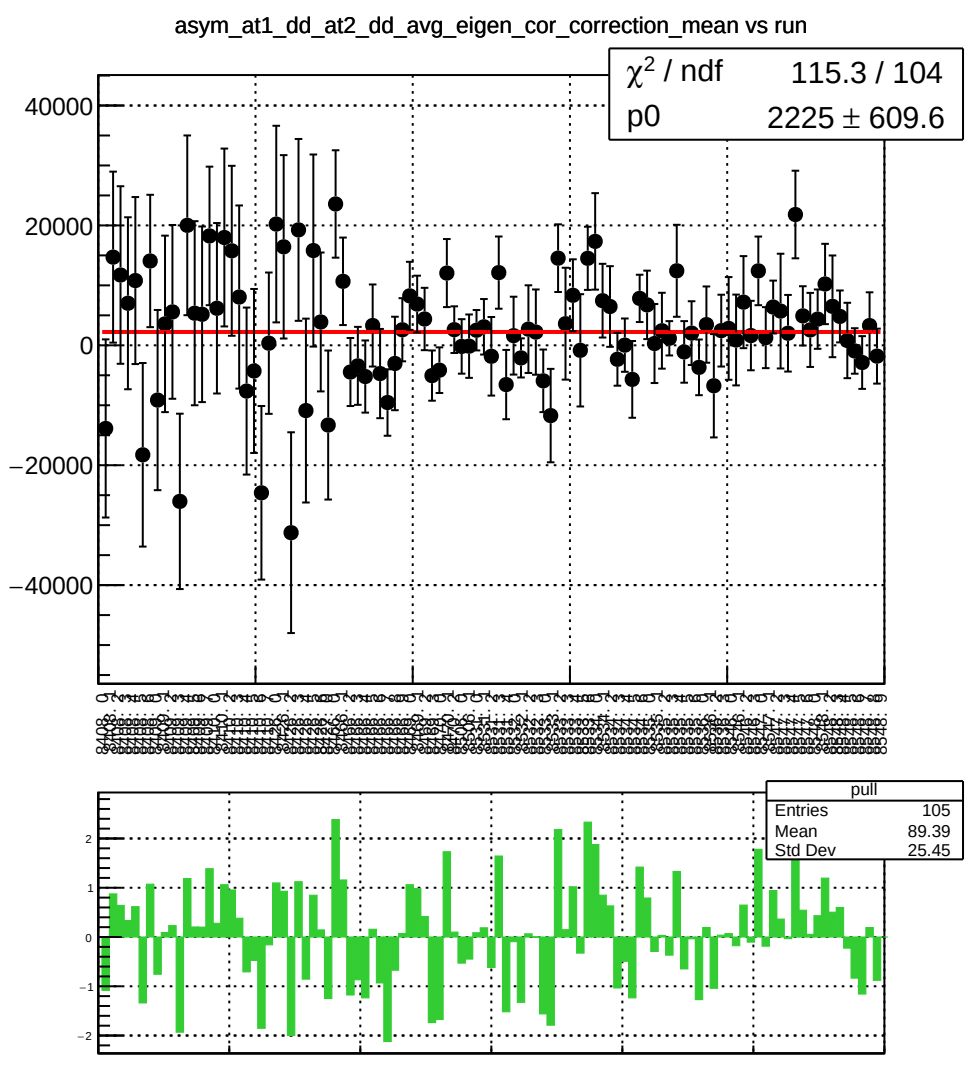

asym_at1_dd_at2_dd_avg_cor_correction_mean vs run
χ² / ndf 115.3 / 104
p0 2225 ± 609.6
40000
20000
0
−20000
−40000
pull
Entries 105
Mean 89.39
Std Dev 25.45
2
1
0
−1
−2

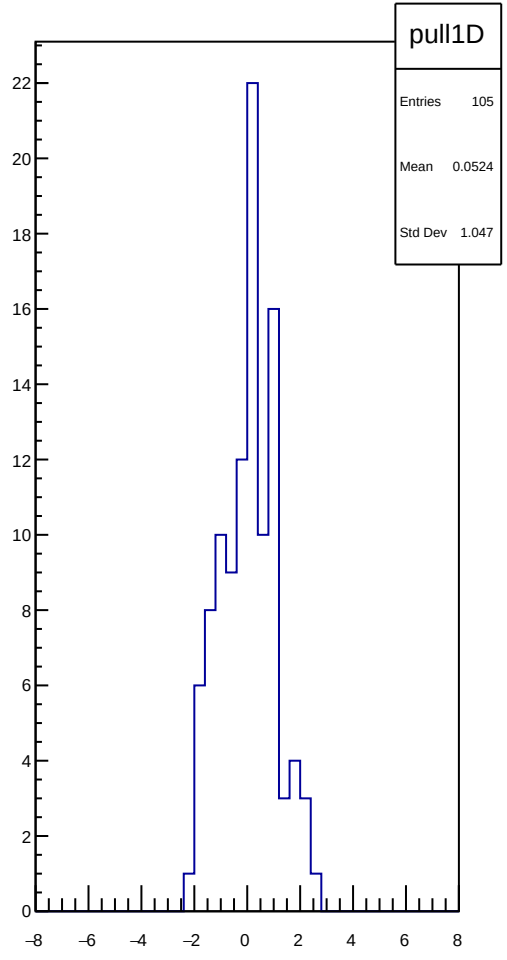

pull1D
Entries 105
Mean 0.0524
Std Dev 1.047
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

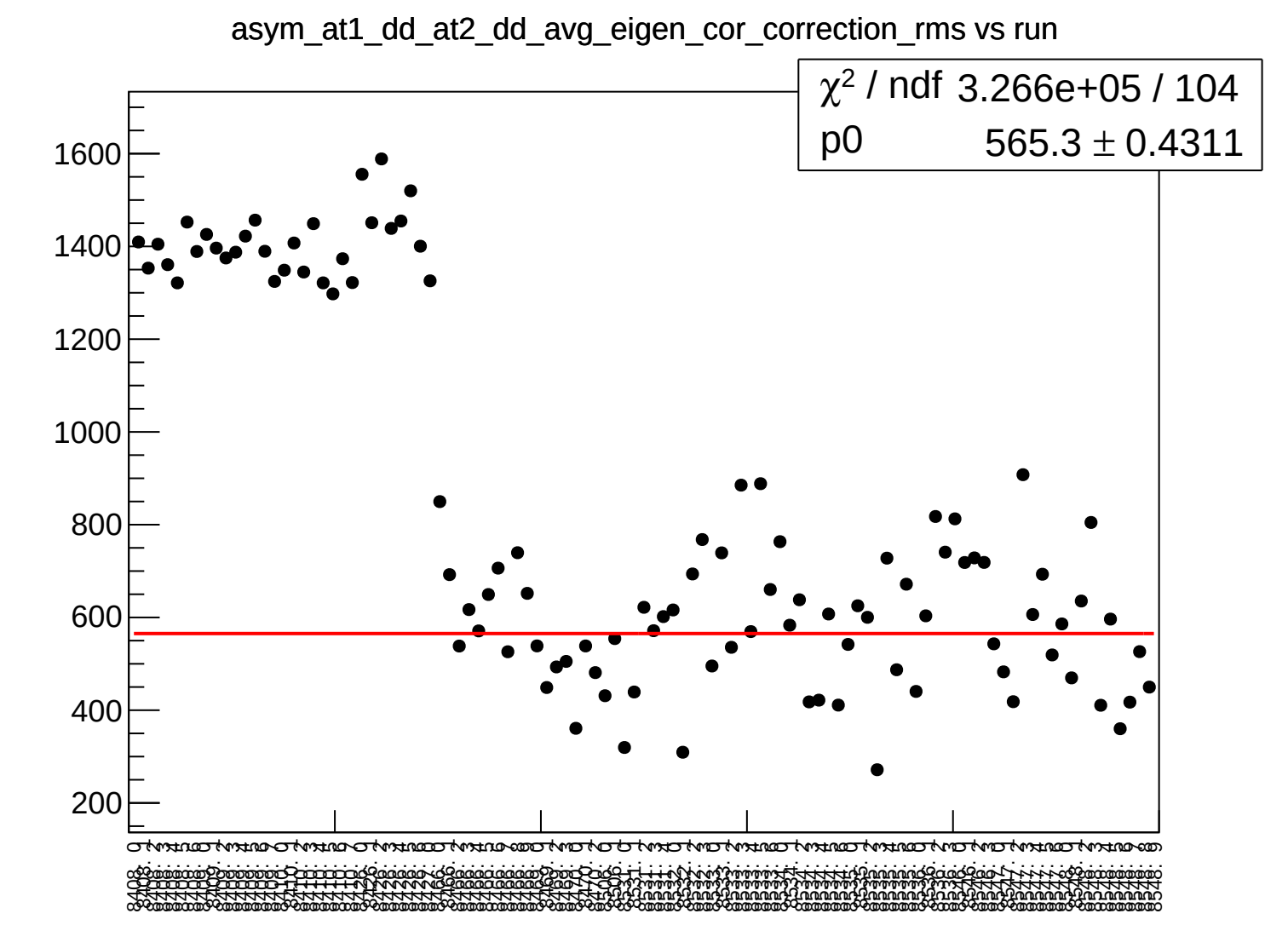

asym_at1_dd_at2_dd_avg_cor_correction_rms vs run
χ² / ndf 3.266e+05 / 104
p0 565.3 ± 0.4311
1600
1400
1200
1000
800
600
400
200

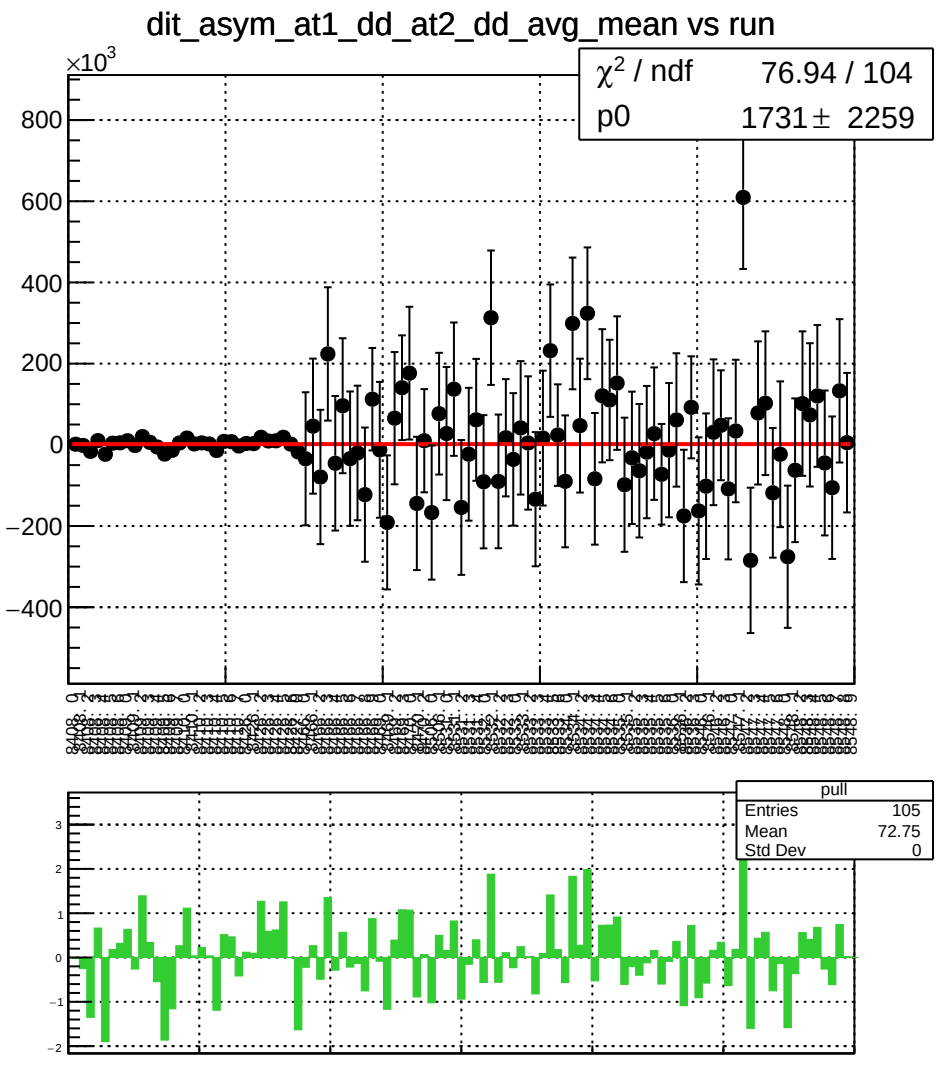

eigen_cor_asym_at1_dd_at2_dd_avg_mean vs run
×10^3
χ² / ndf 76.99 / 104
p0 1812 ± 2258
800
600
400
200
0
−200
−400
pull
Entries 105
Mean 72.75
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.05846
Std Dev 0.8543
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

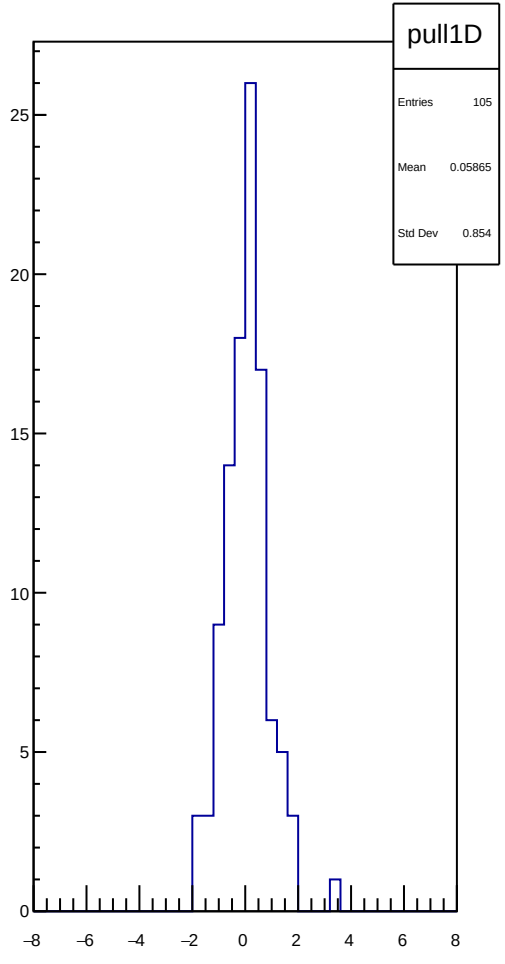

eigen_cor_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 1.208e+06 / 104
p0 1462 ± 1.597
18000
16000
14000
12000
10000
8000
6000
4000
2000

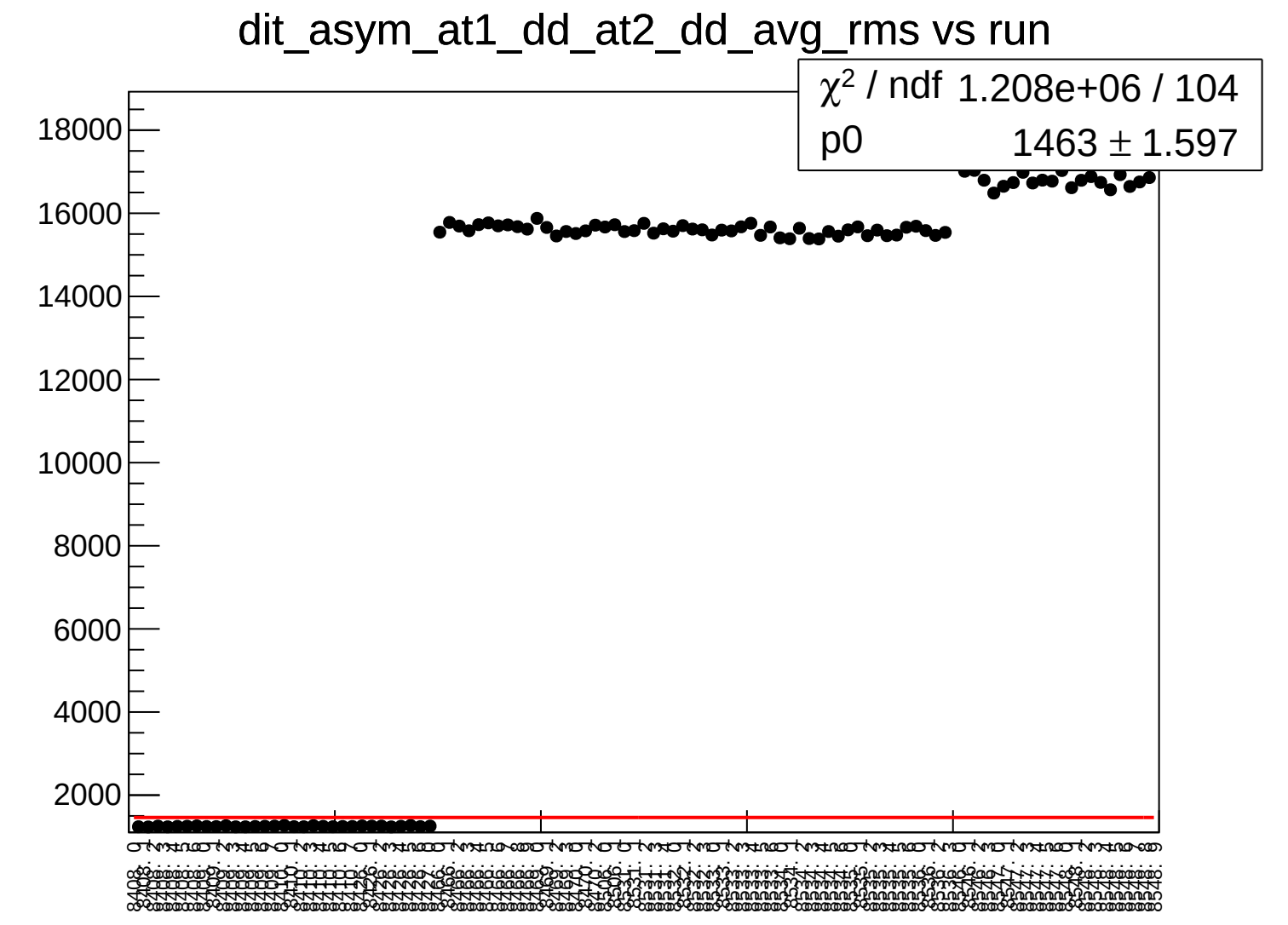

asym_at1_dd_at2_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 115.3 / 104
p0 2225 ± 609.6
40000
20000
0
−20000
−40000
pull
Entries 105
Mean 89.39
Std Dev 25.45
2
1
0
−1
−2

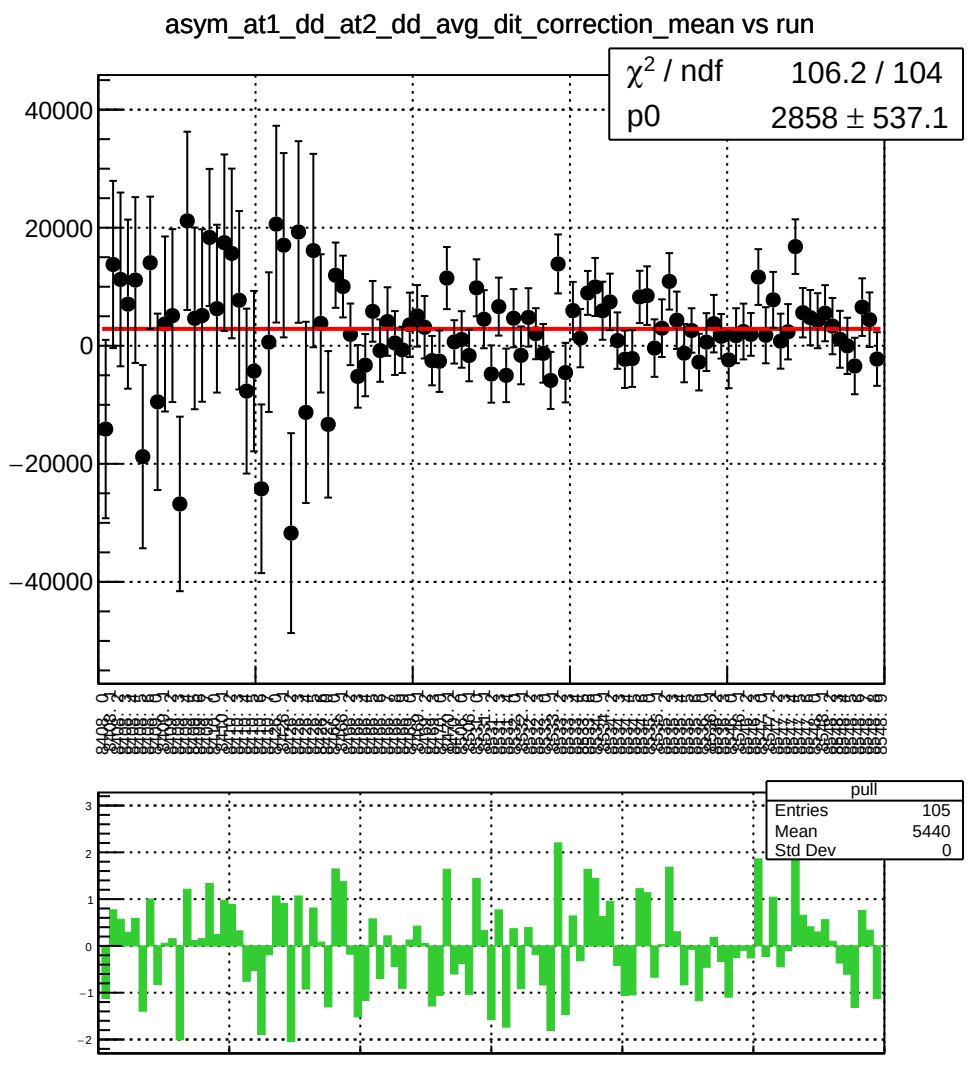

pull1D
Entries 105
Mean 0.0524
Std Dev 1.047
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

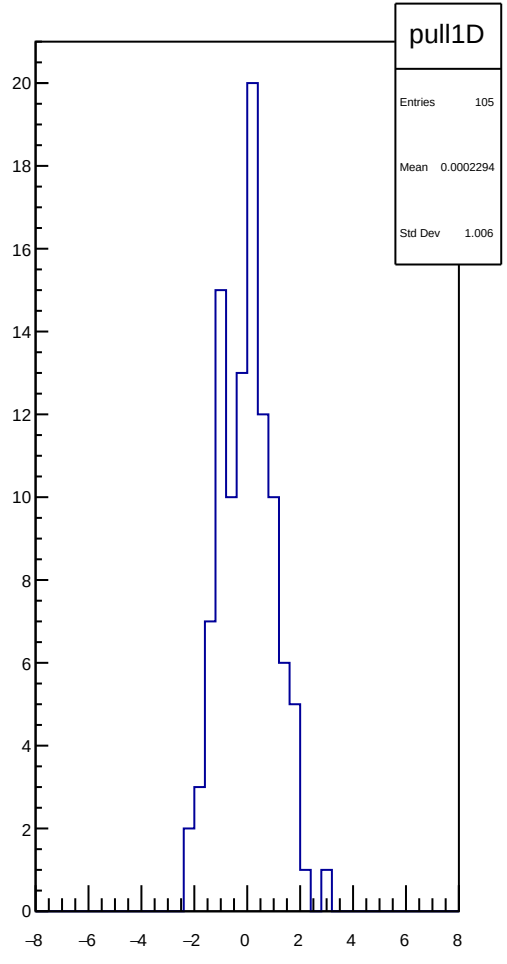

asym_at1_dd_at2_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.266e+05 / 104
p0 565.3 ± 0.4311
1600
1400
1200
1000
800
600
400
200

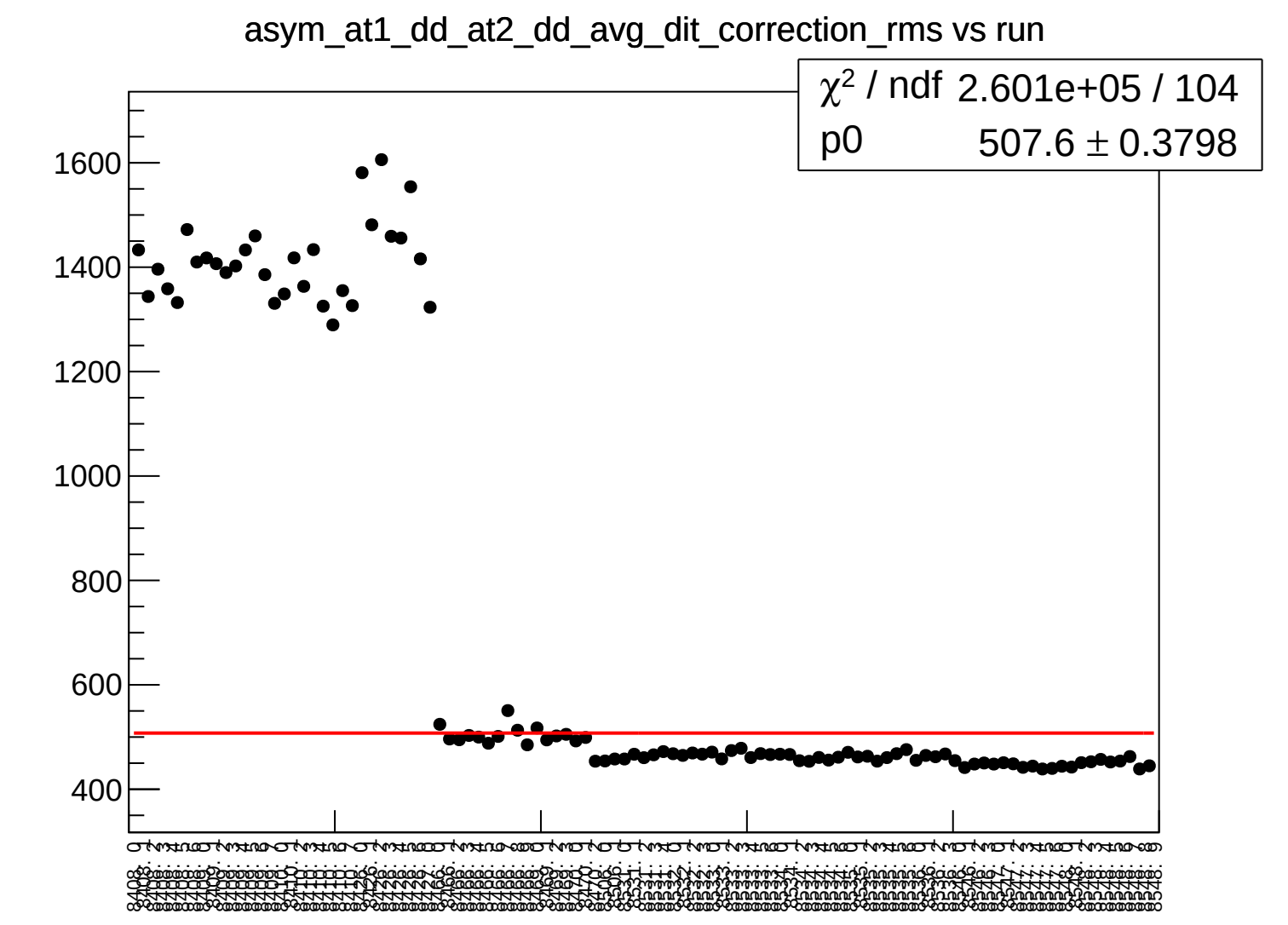

dit_asym_at1_dd_at2_dd_avg_mean vs run
×10^3
χ^2 / ndf 76.94 / 104
p0 1731 ± 2259
800
600
400
200
0
−200
−400
pull
Entries 105
Mean 72.75
Std Dev 0
3
2
1
0
−1
−2

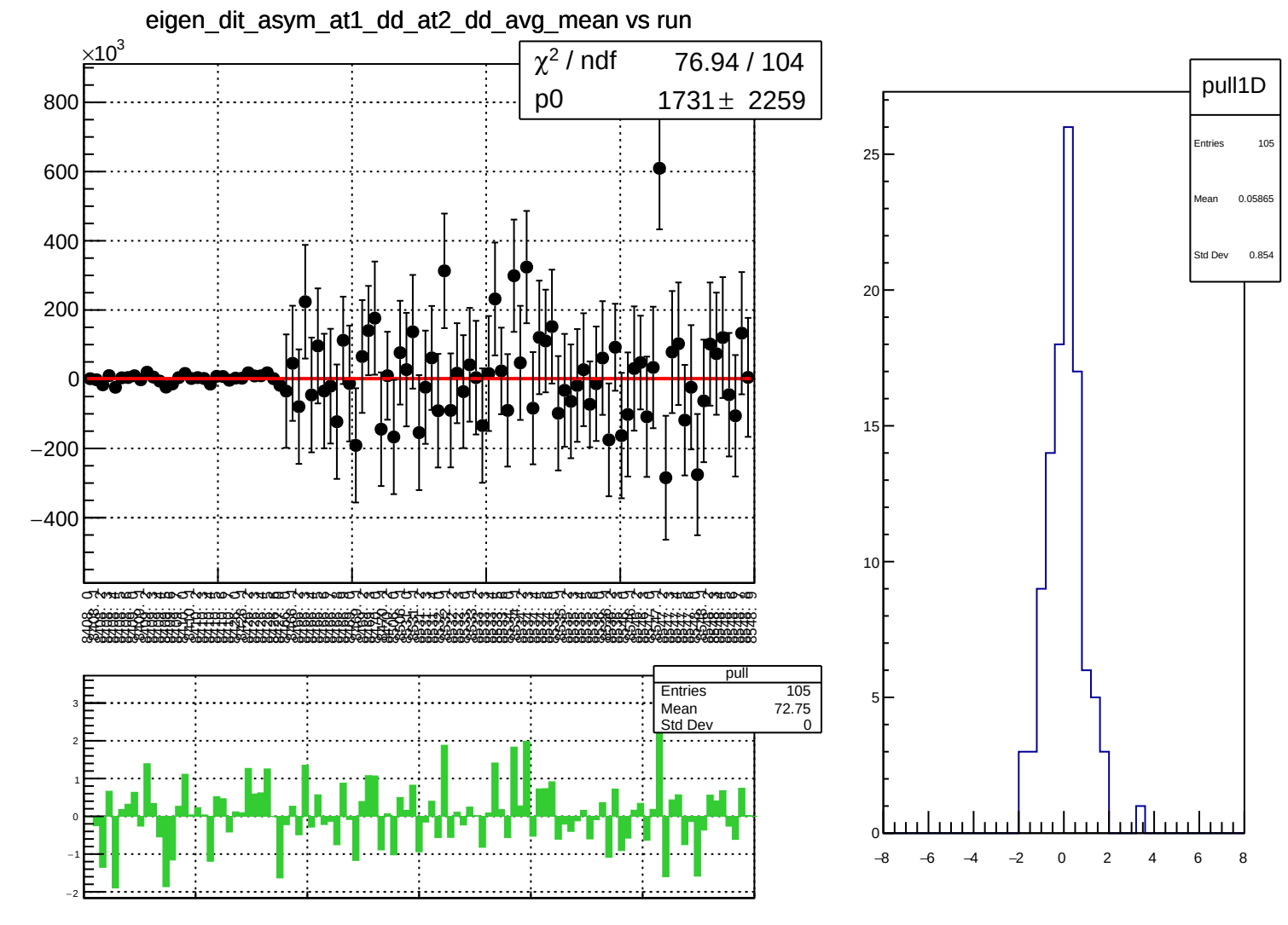

pull1D
Entries 105
Mean 0.05865
Std Dev 0.854
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

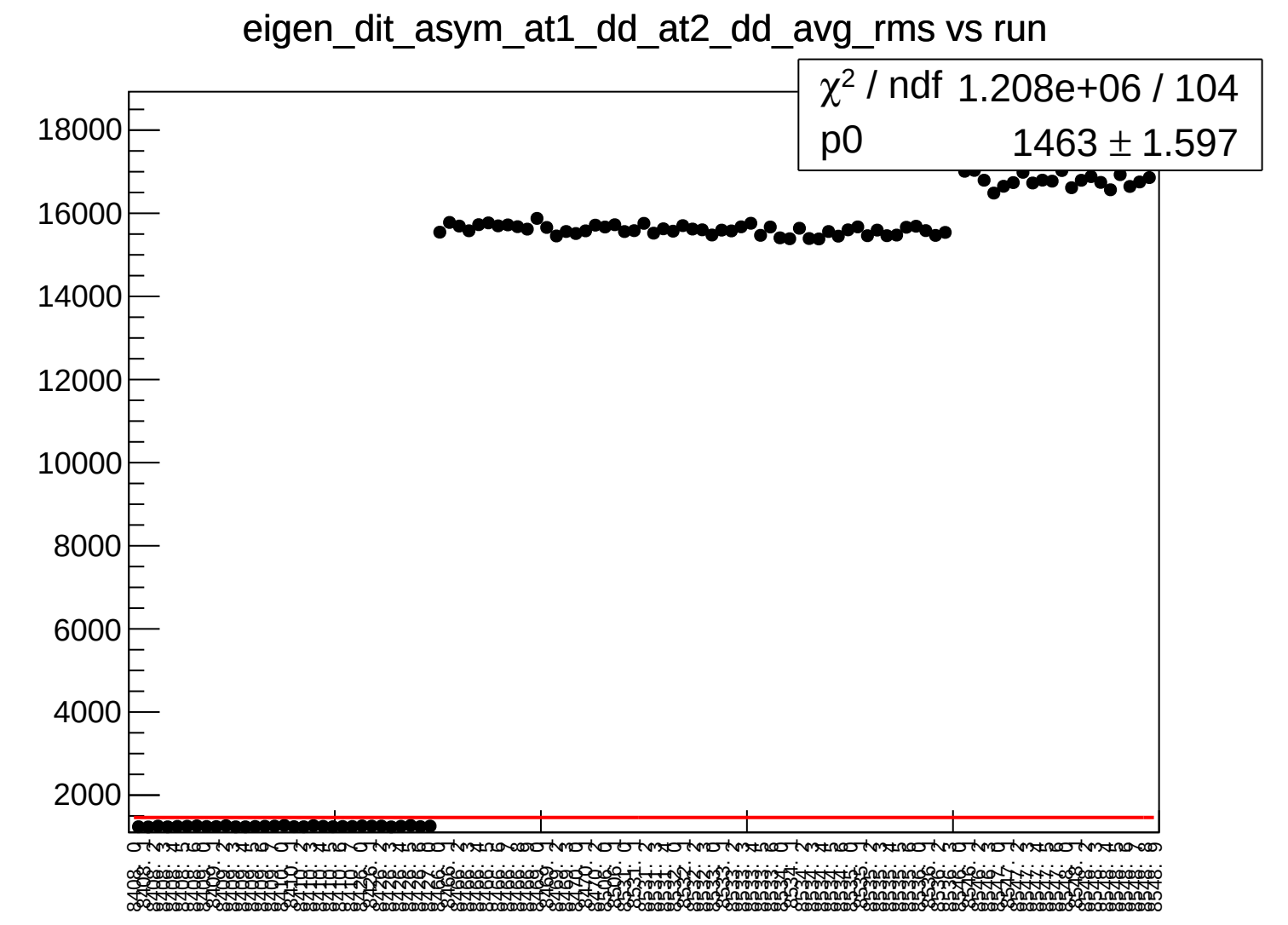

dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 1.208e+06 / 104
p0 1463 ± 1.597
18000
16000
14000
12000
10000
8000
6000
4000
2000

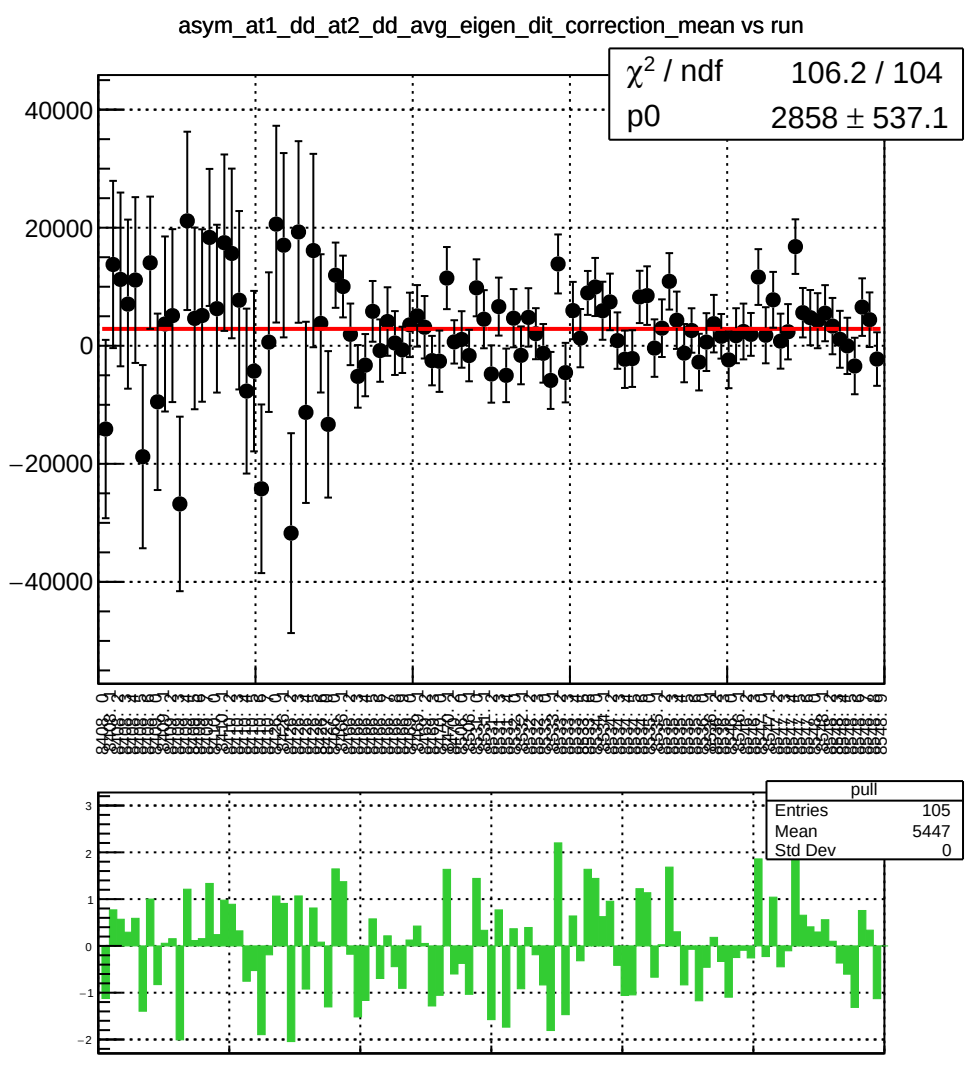

asym_at1_dd_at2_dd_avg_dit_correction_mean vs run
χ² / ndf 106.2 / 104
p0 2858 ± 537.1
40000
20000
0
−20000
−40000
pull
Entries 105
Mean 5440
Std Dev 0
3
2
1
0
−1
−2

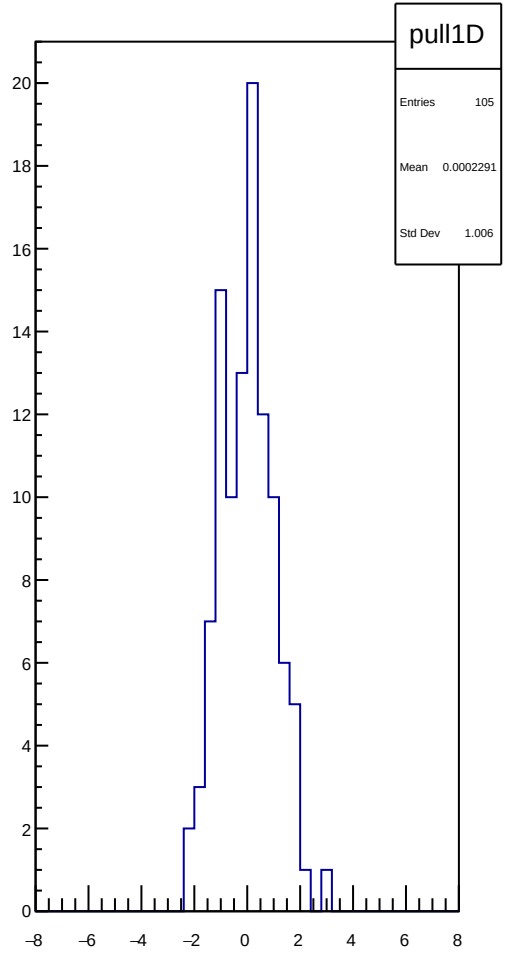

pull1D
Entries 105
Mean 0.0002294
Std Dev 1.006
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

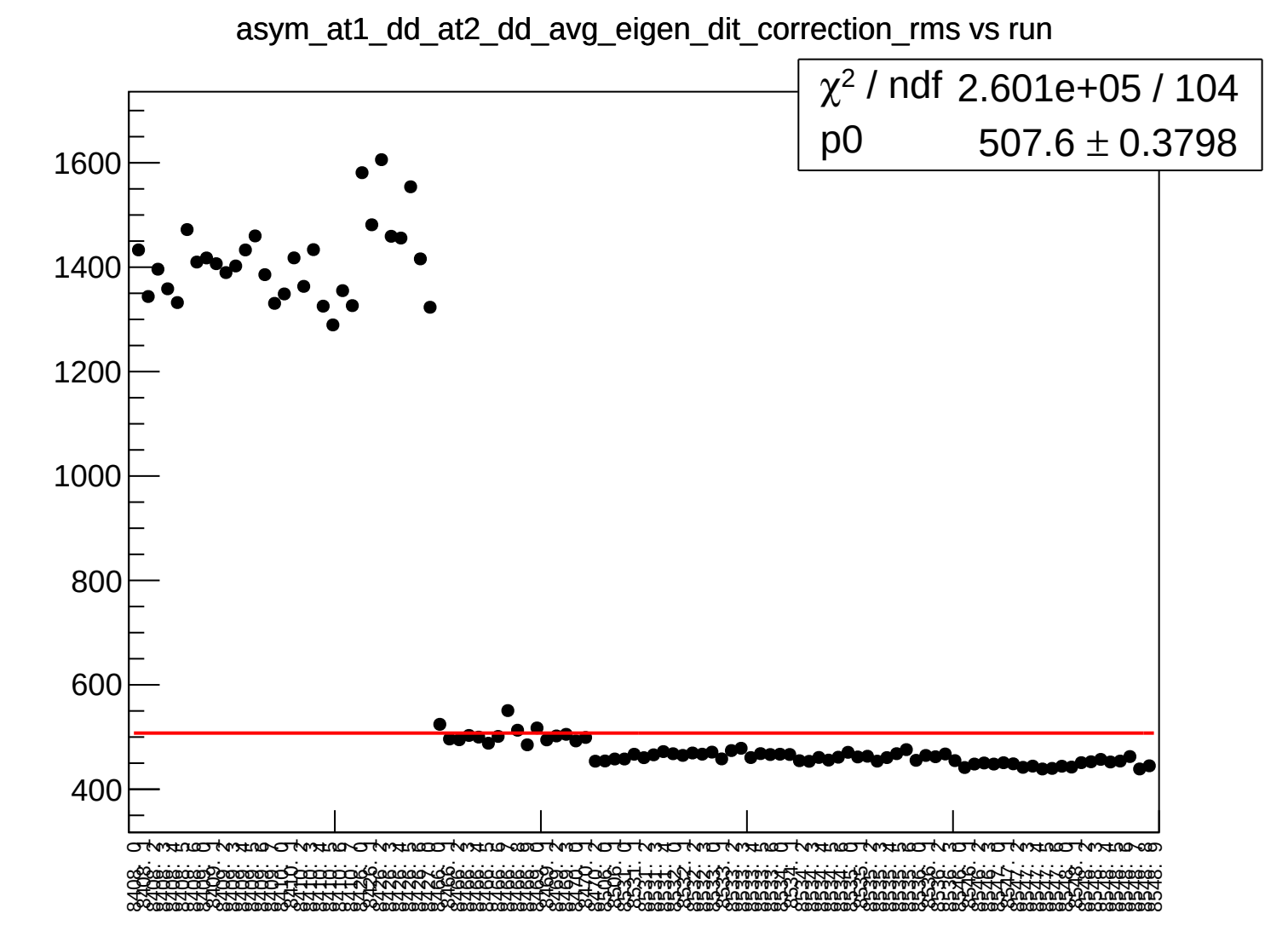

asym_at1_dd_at2_dd_avg_dit_correction_rms vs run
χ² / ndf 2.601e+05 / 104
p0 507.6 ± 0.3798
1600
1400
1200
1000
800
600
400

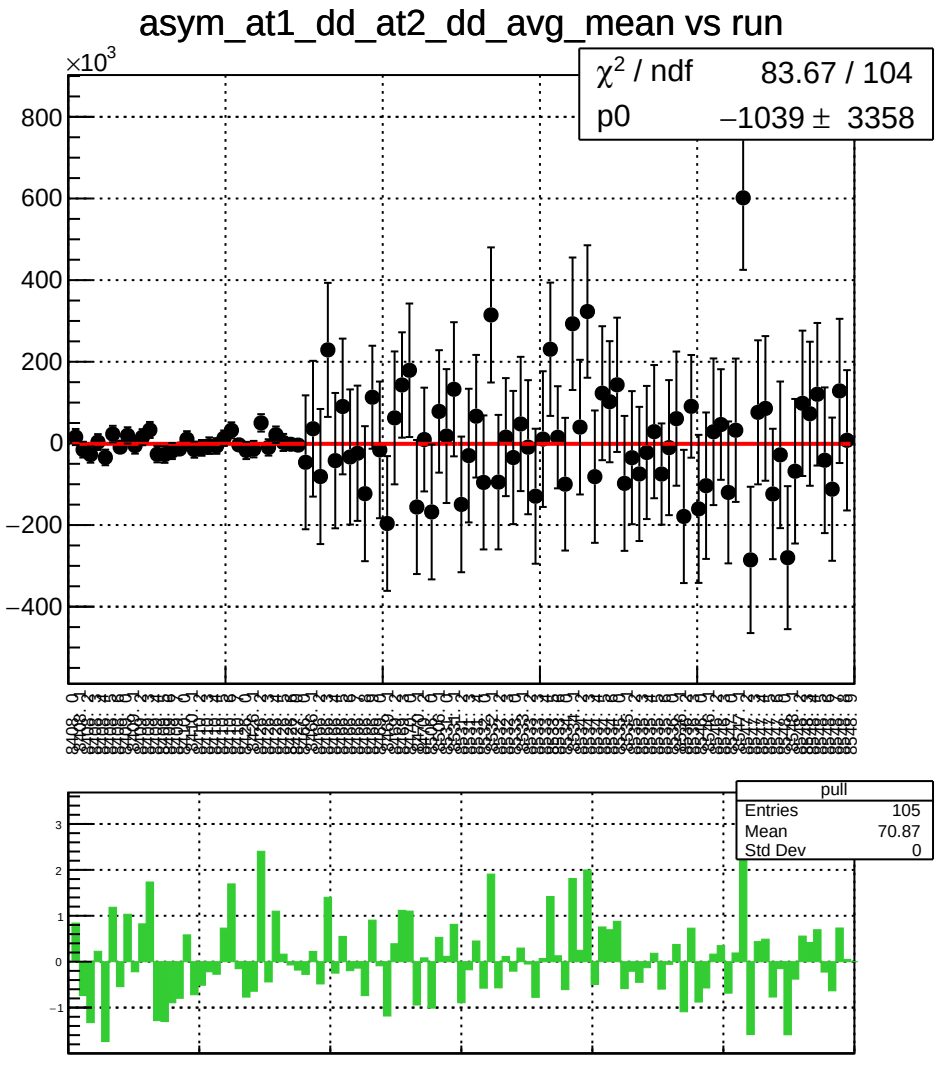

eigen_dit_asym_at1_dd_at2_dd_avg_mean vs run
×10^3
χ^2 / ndf 76.94 / 104
p0 1731 ± 2259
800
600
400
200
0
−200
−400
pull
Entries 105
Mean 72.75
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.05865
Std Dev 0.854
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

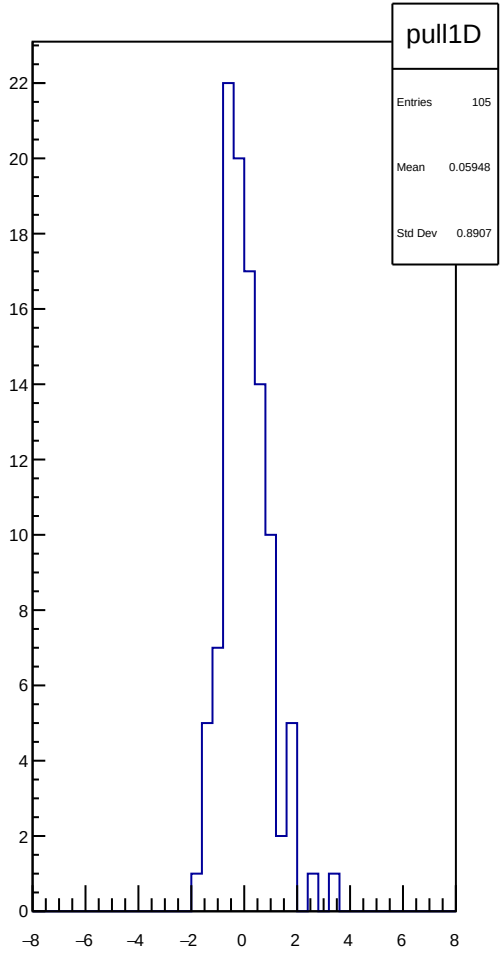

eigen_dit_asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 1.208e+06 / 104
p0 1463 ± 1.597
18000
16000
14000
12000
10000
8000
6000
4000
2000

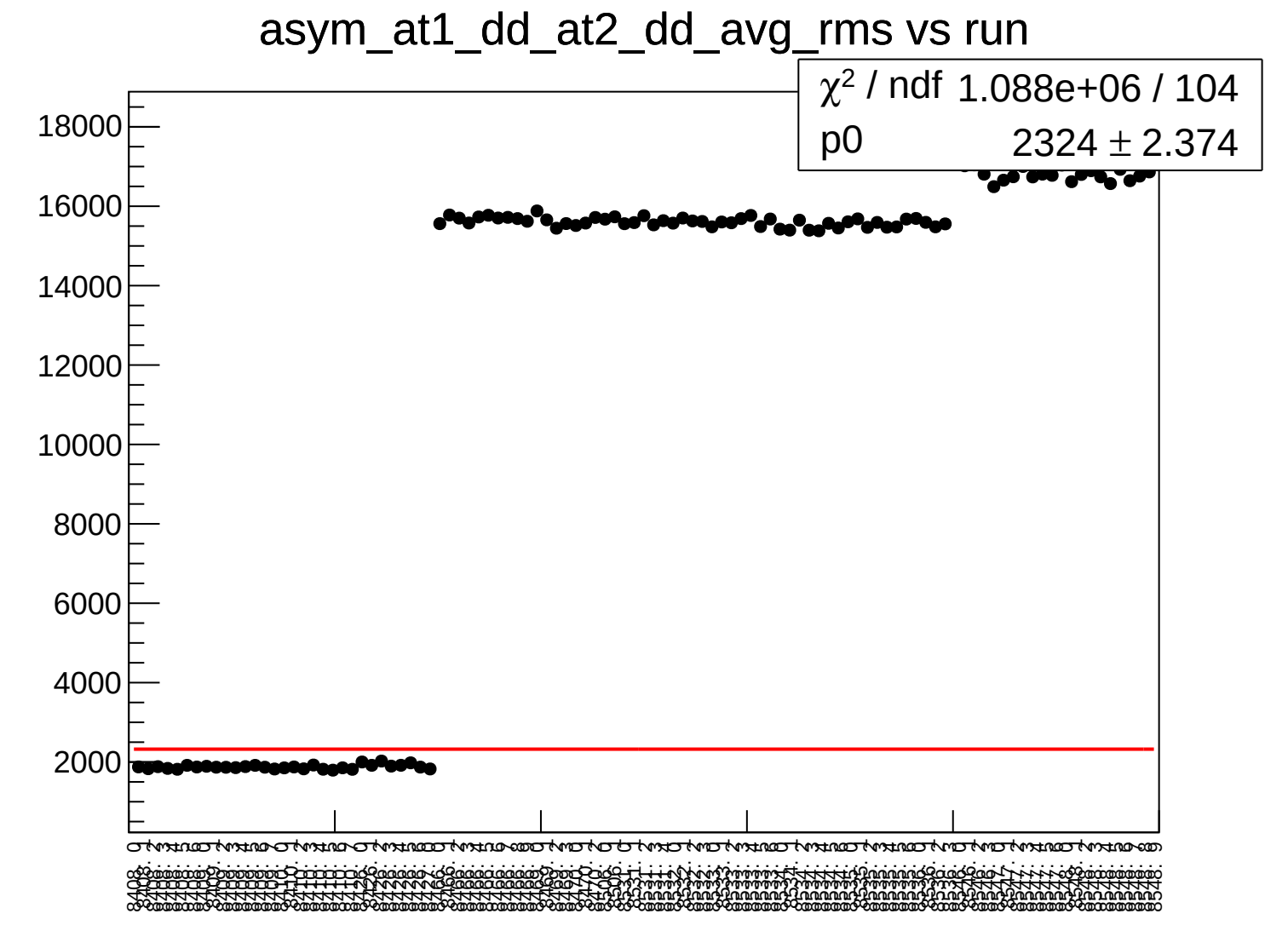

asym_at1_dd_at2_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 106.2 / 104
p0 2858 ± 537.1
40000
20000
0
−20000
−40000
pull
Entries 105
Mean 5447
Std Dev 0
3
2
1
0
−1
−2

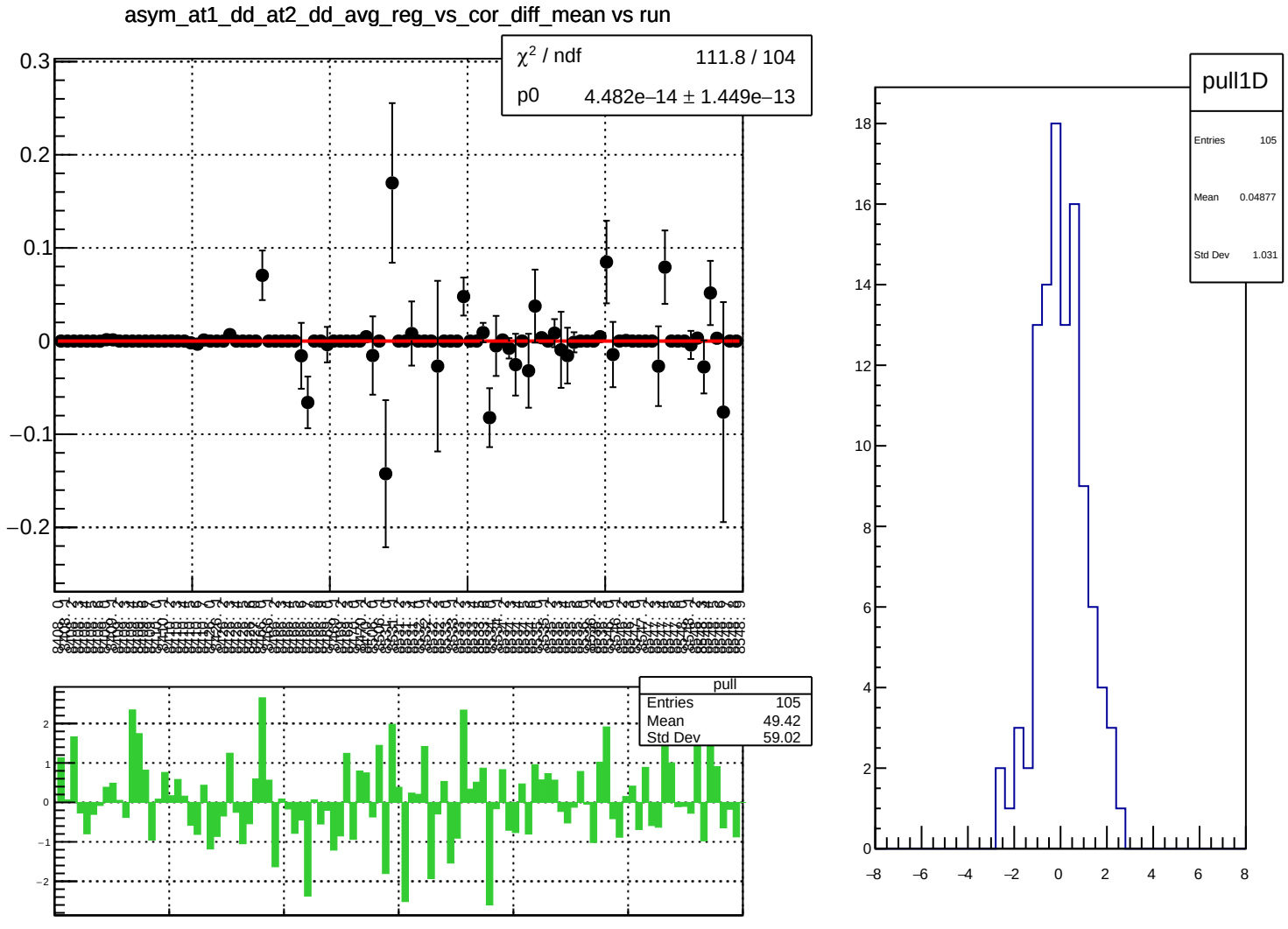

pull1D
Entries 105
Mean 0.0002291
Std Dev 1.006
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

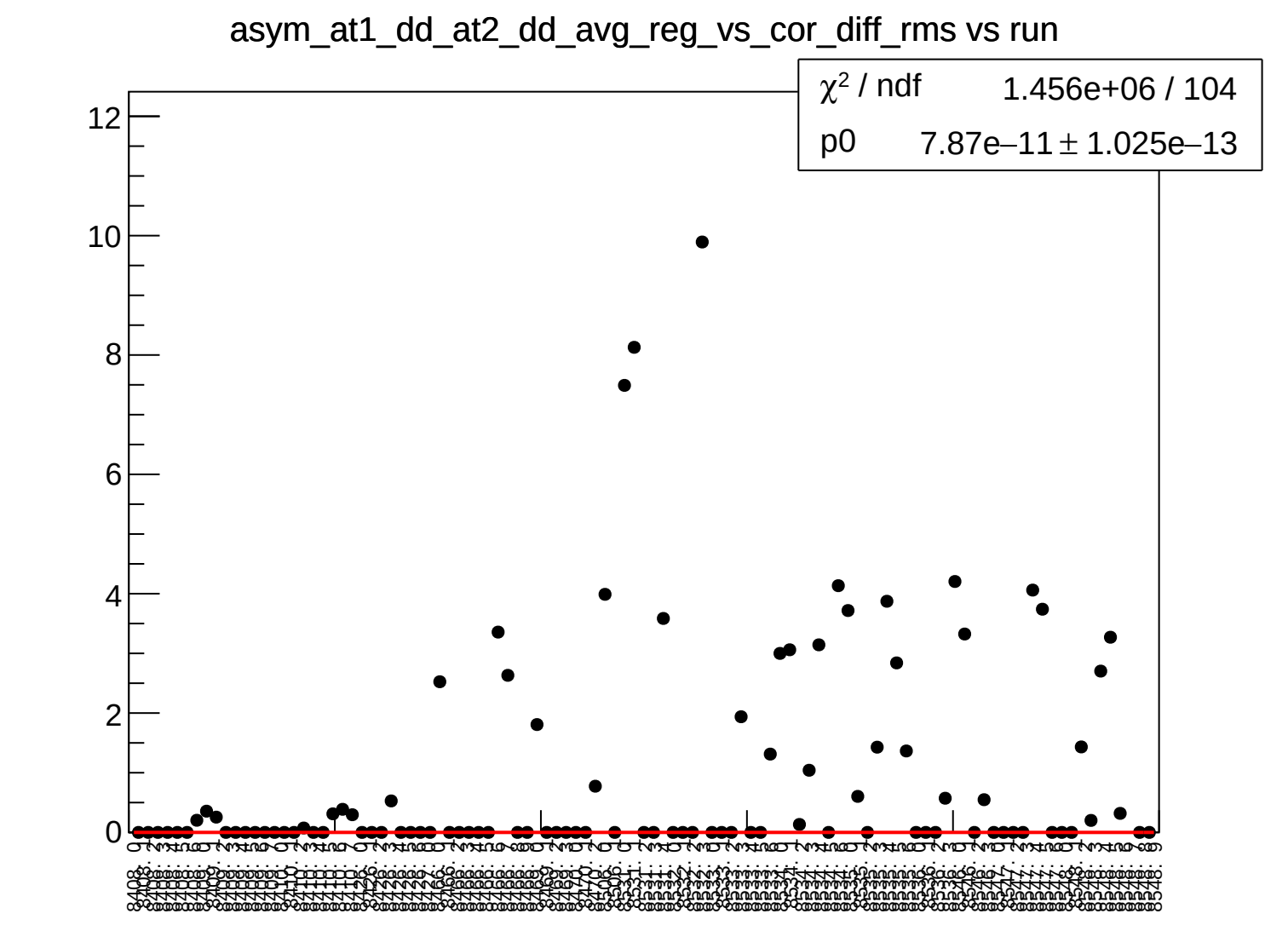

asym_at1_dd_at2_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.601e+05 / 104
p0 507.6 ± 0.3798
1600
1400
1200
1000
800
600
400

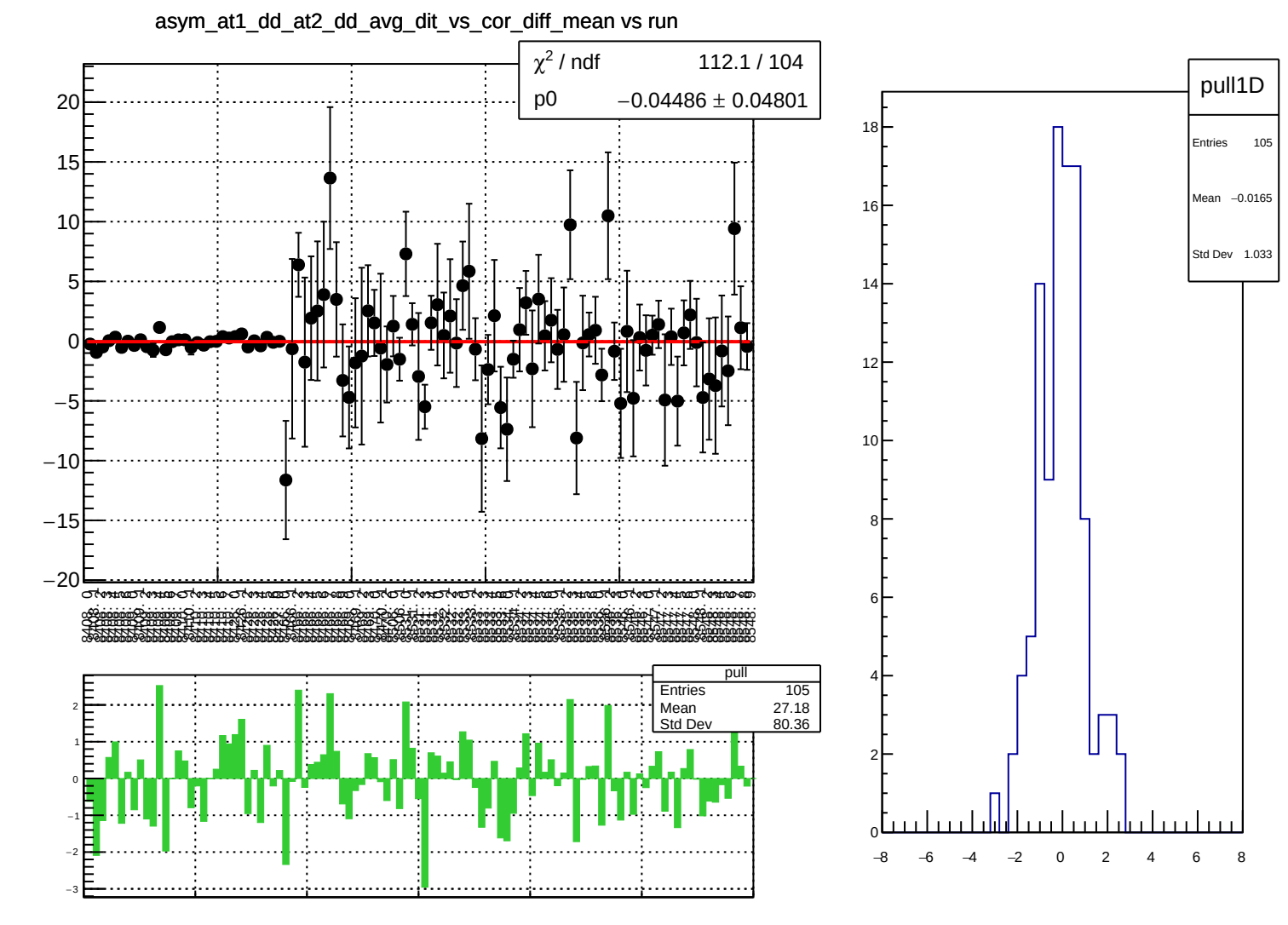

asym_at1_dd_at2_dd_avg_mean vs run
×10^3
χ^2 / ndf 83.67 / 104
p0 −1039 ± 3358
800
600
400
200
0
−200
−400
pull
Entries 105
Mean 70.87
Std Dev 0
3
2
1
0
−1

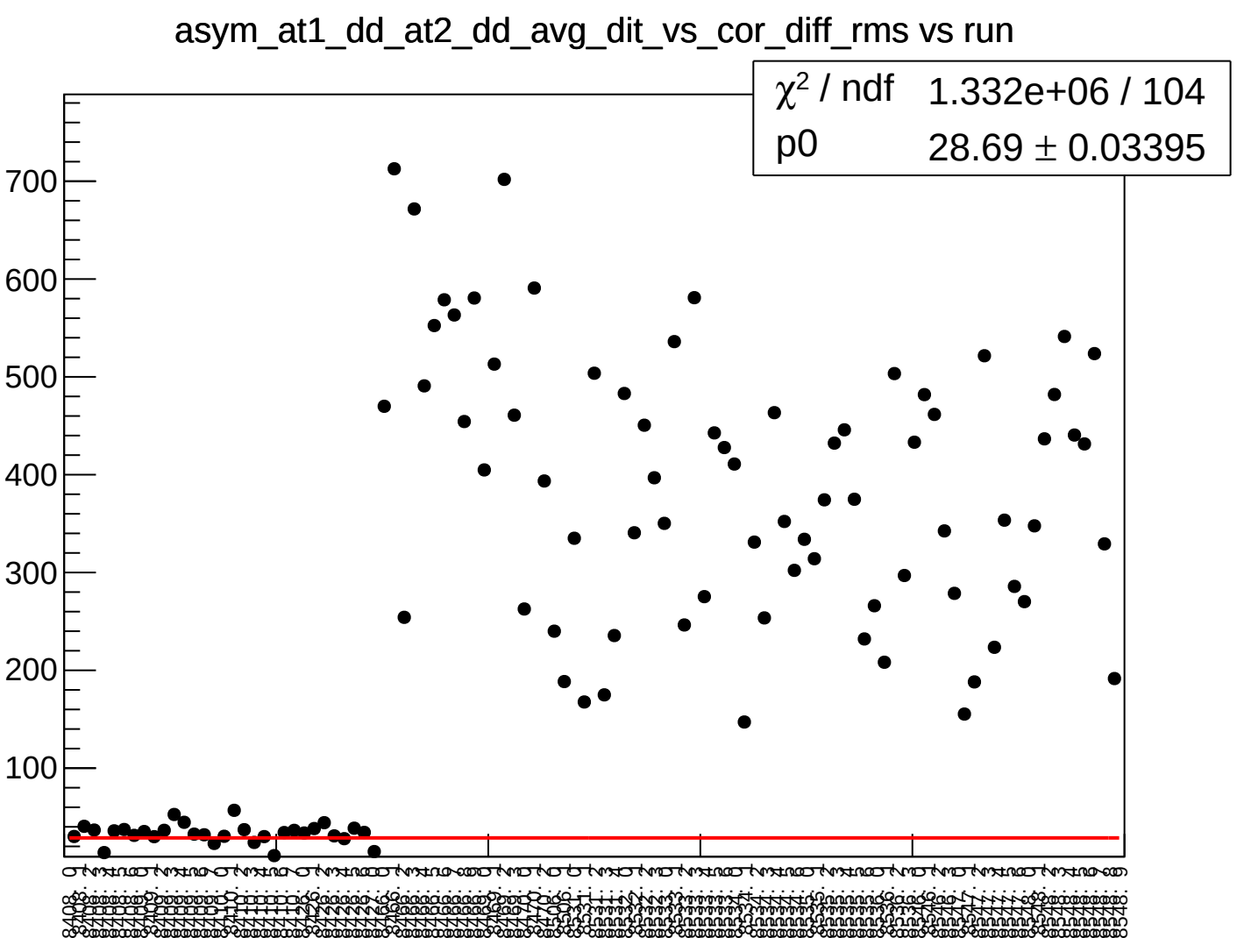

pull1D
Entries 105
Mean 0.05948
Std Dev 0.8907
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

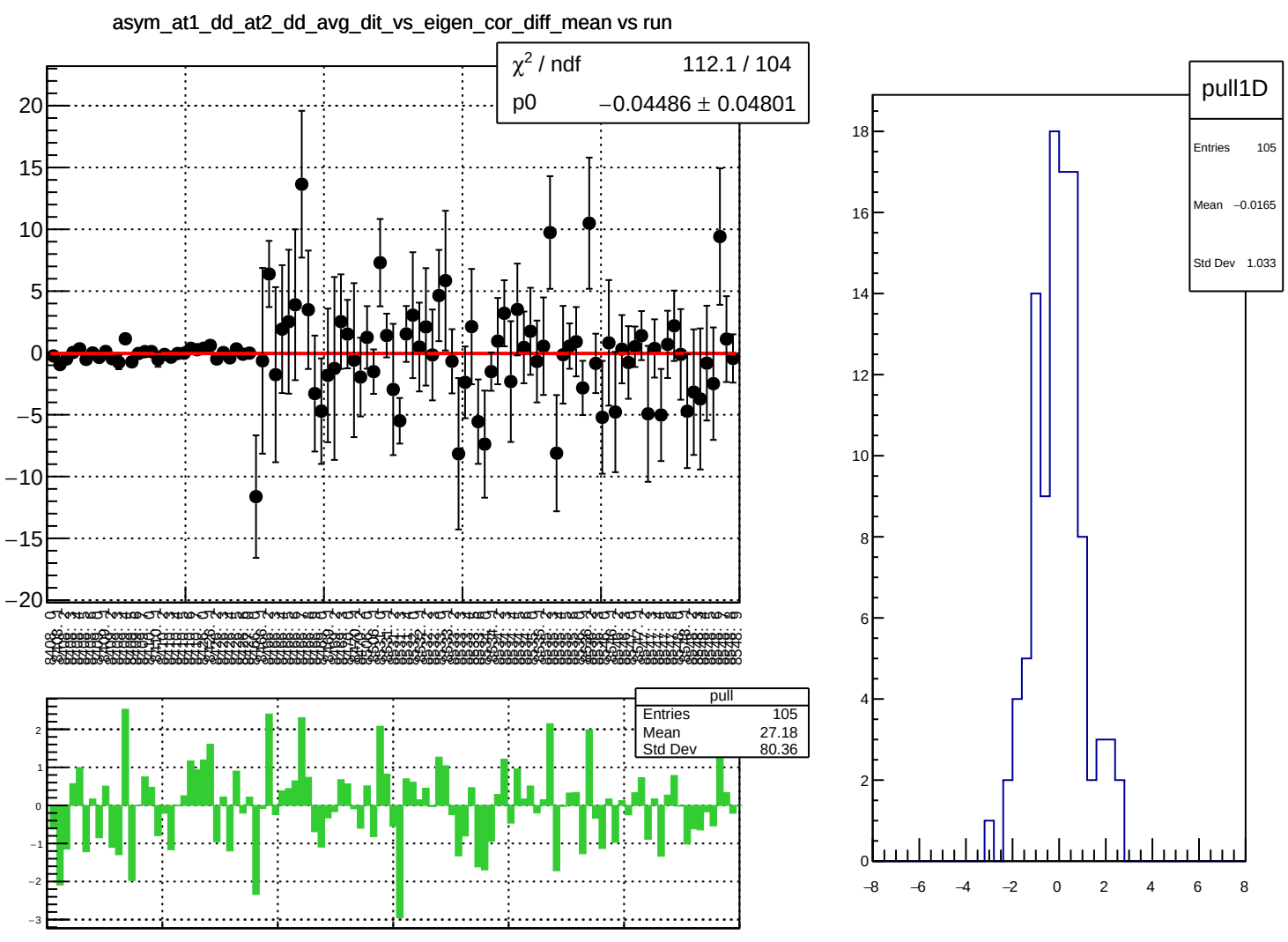

asym_at1_dd_at2_dd_avg_rms vs run
χ² / ndf 1.088e+06 / 104
p0 2324 ± 2.374
18000
16000
14000
12000
10000
8000
6000
4000
2000

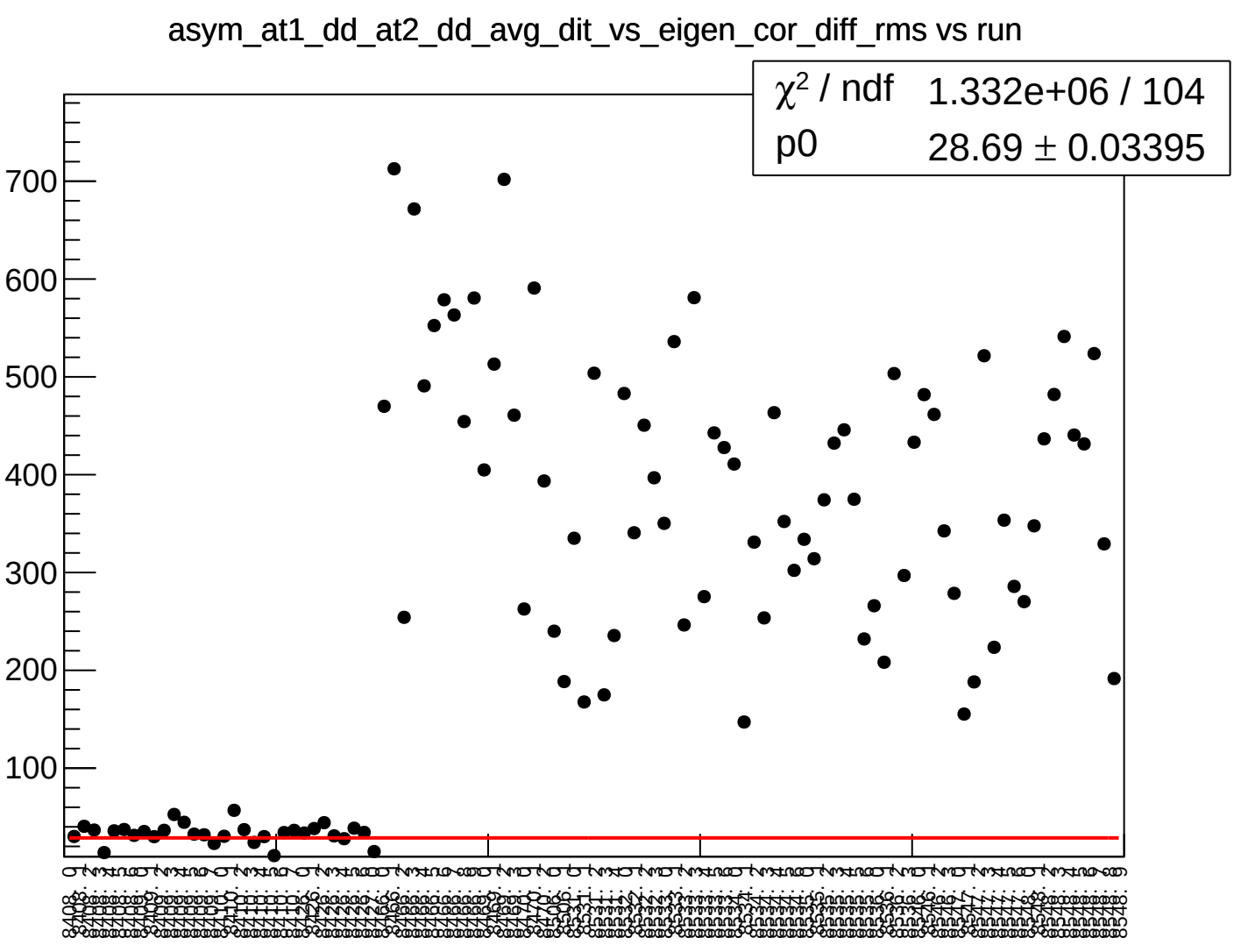

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 111.8 / 104
p0 4.482e−14 ± 1.449e−13
0.3
0.2
0.1
0
−0.1
−0.2
pull
Entries 105
Mean 49.42
Std Dev 59.02
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.04877
Std Dev 1.031
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

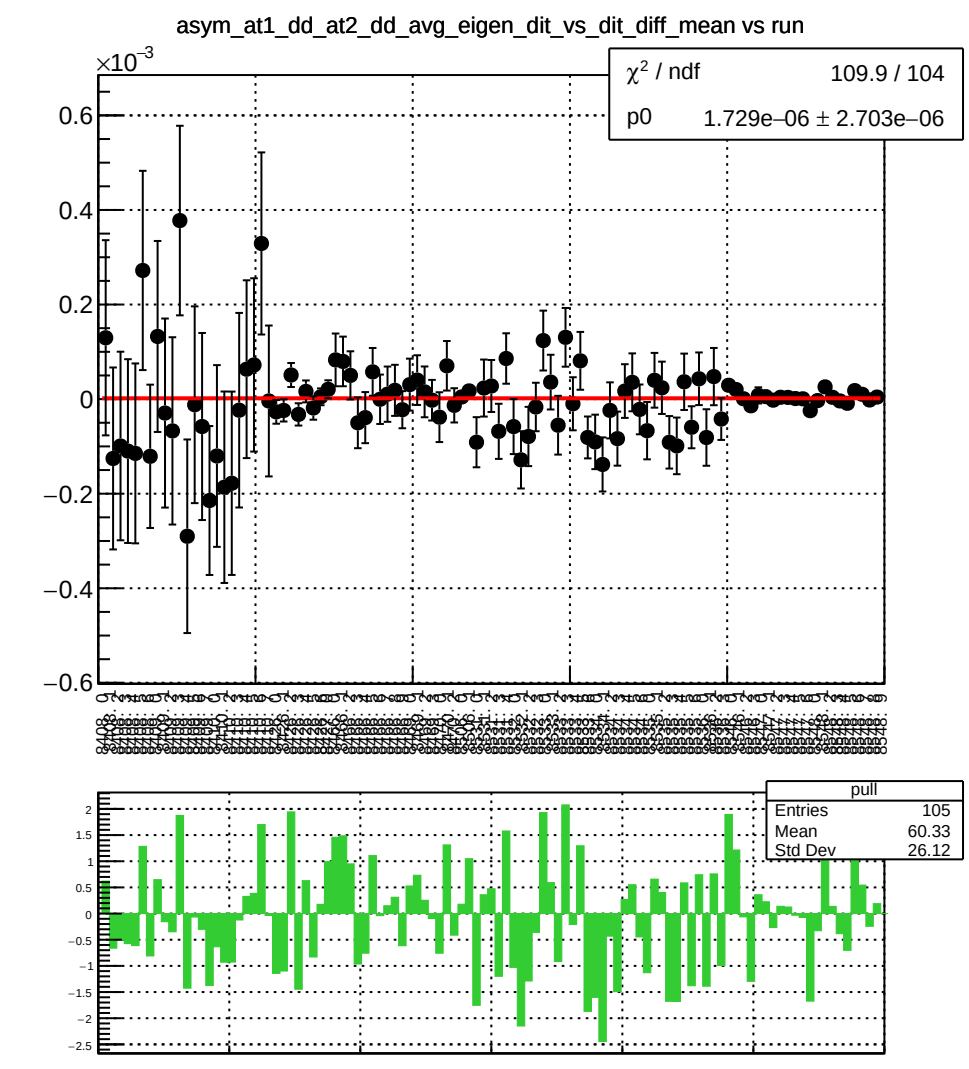

asym_at1_dd_at2_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.456e+06 / 104
p0 7.87e−11 ± 1.025e−13
12
10
8
6
4
2
0

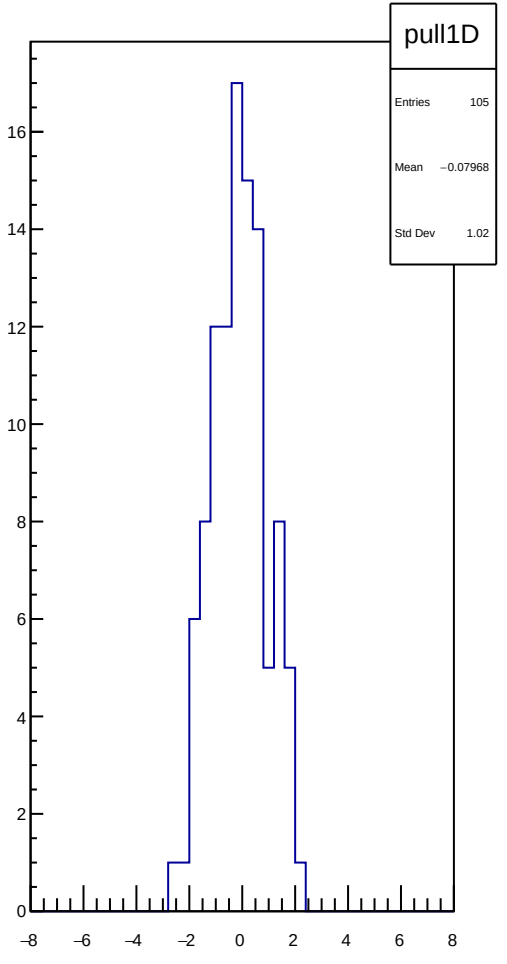

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 112.1 / 104
p0 −0.04486 ± 0.04801
pull
Entries 105
Mean 27.18
Std Dev 80.36
pull1D
Entries 105
Mean −0.0165
Std Dev 1.033

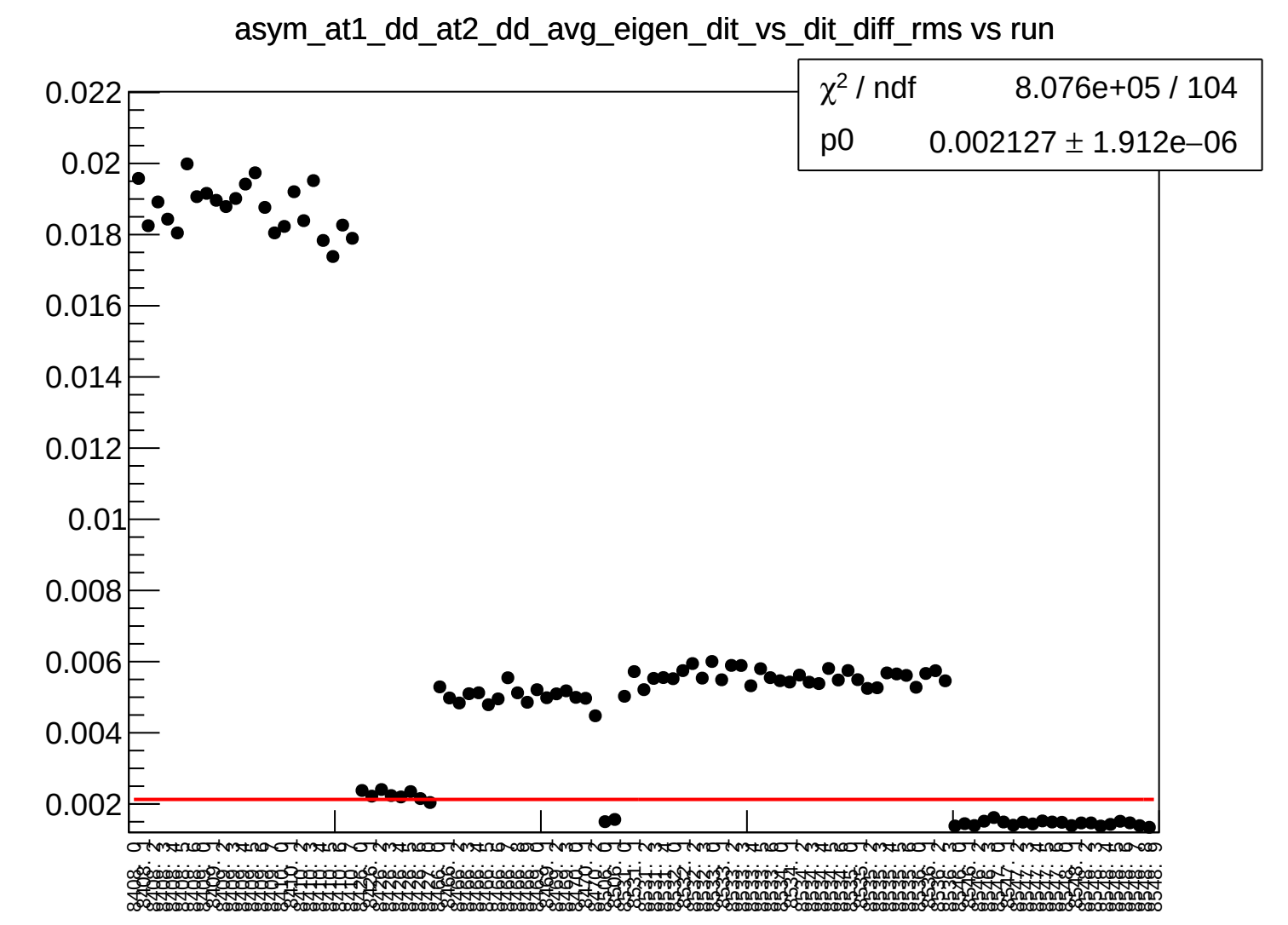

asym_at1_dd_at2_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.332e+06 / 104
p0 28.69 ± 0.03395
700
600
500
400
300
200
100

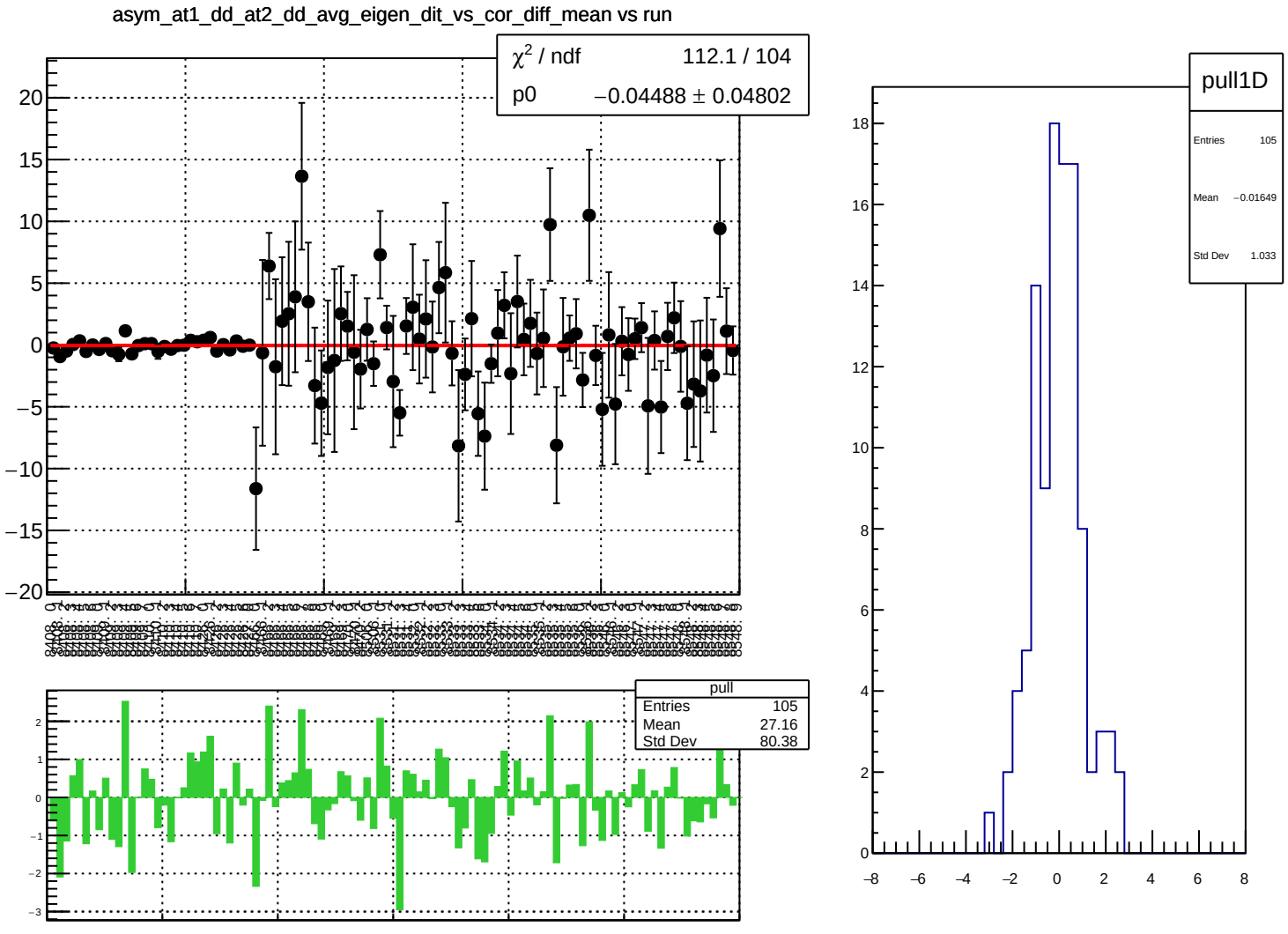

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 112.1 / 104
p0 −0.04486 ± 0.04801
pull
Entries 105
Mean 27.18
Std Dev 80.36
pull1D
Entries 105
Mean −0.0165
Std Dev 1.033

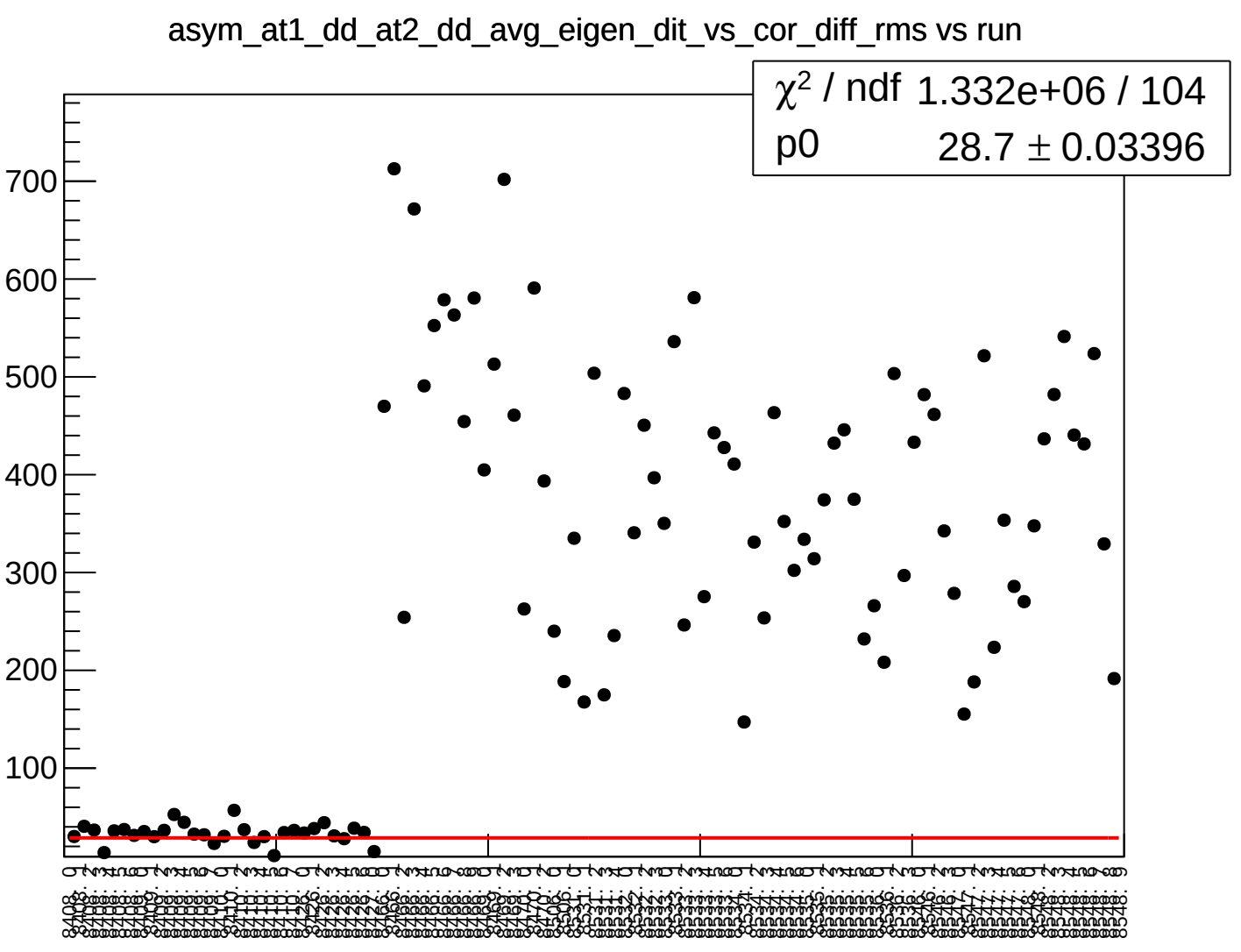

asym_at1_dd_at2_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.332e+06 / 104
p0 28.69 ± 0.03395
700
600
500
400
300
200
100

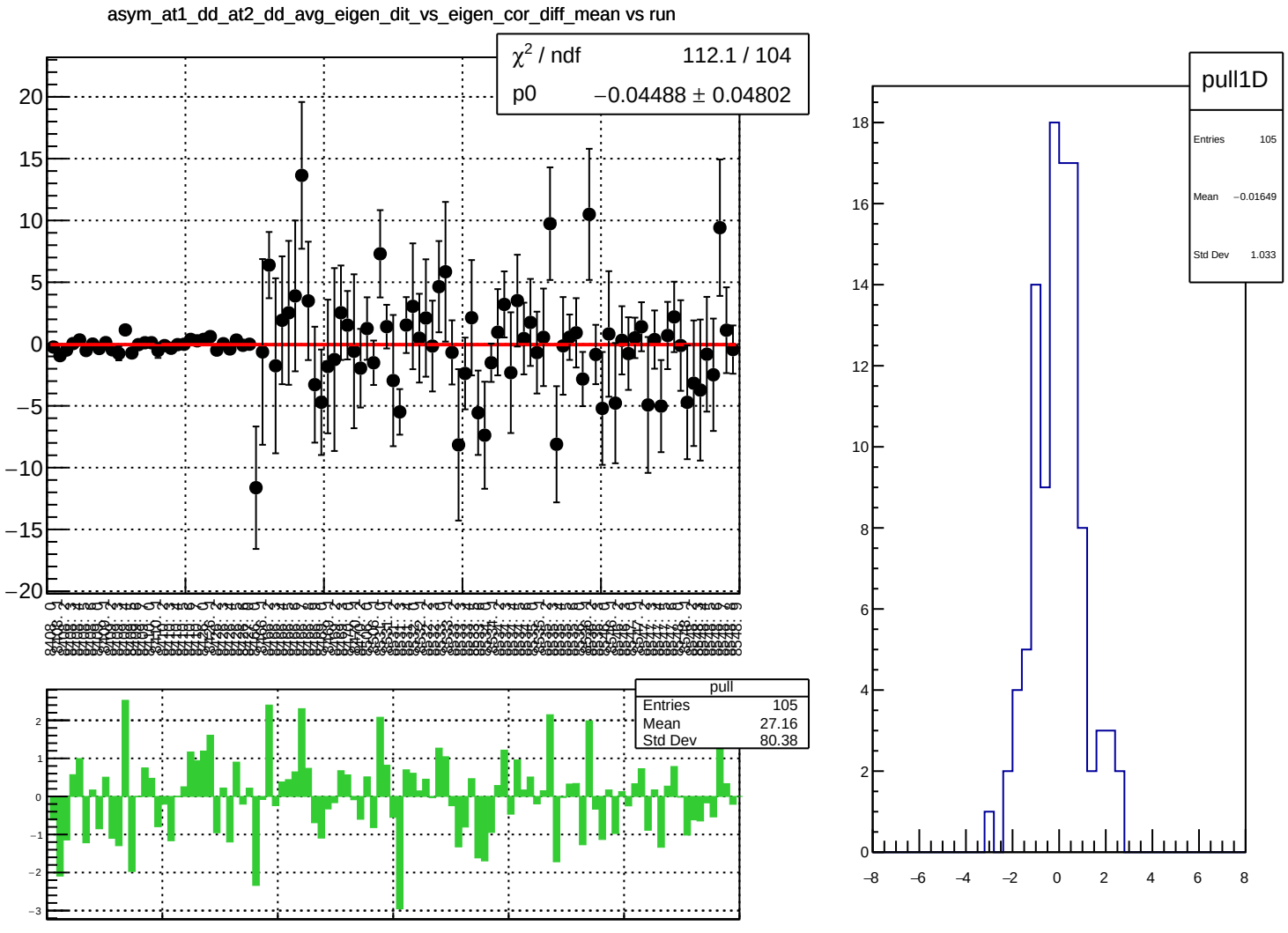

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 109.9 / 104
p0 1.729e−06 ± 2.703e−06
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 105
Mean 60.33
Std Dev 26.12
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

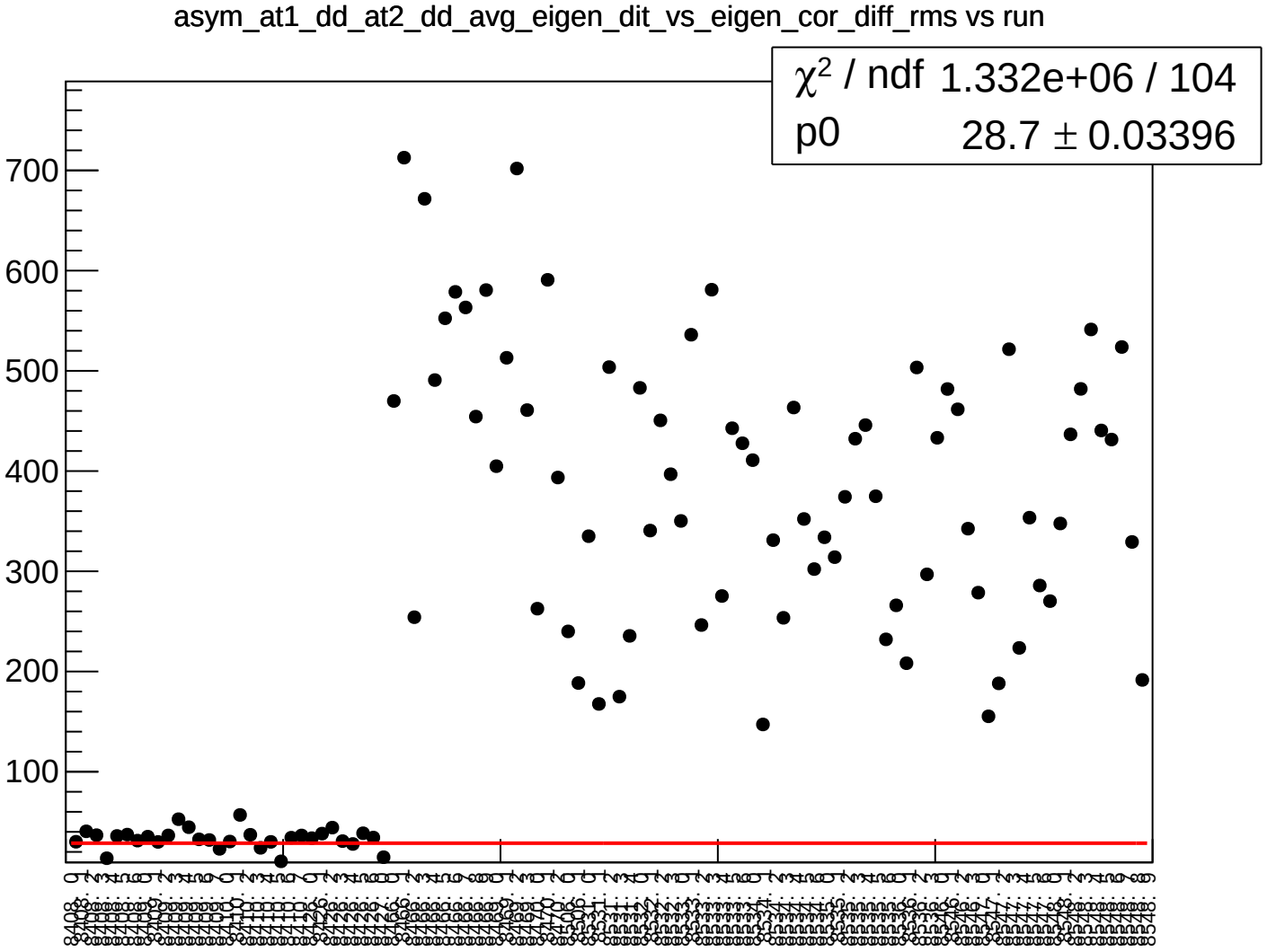

pull1D
Entries 105
Mean −0.07968
Std Dev 1.02
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

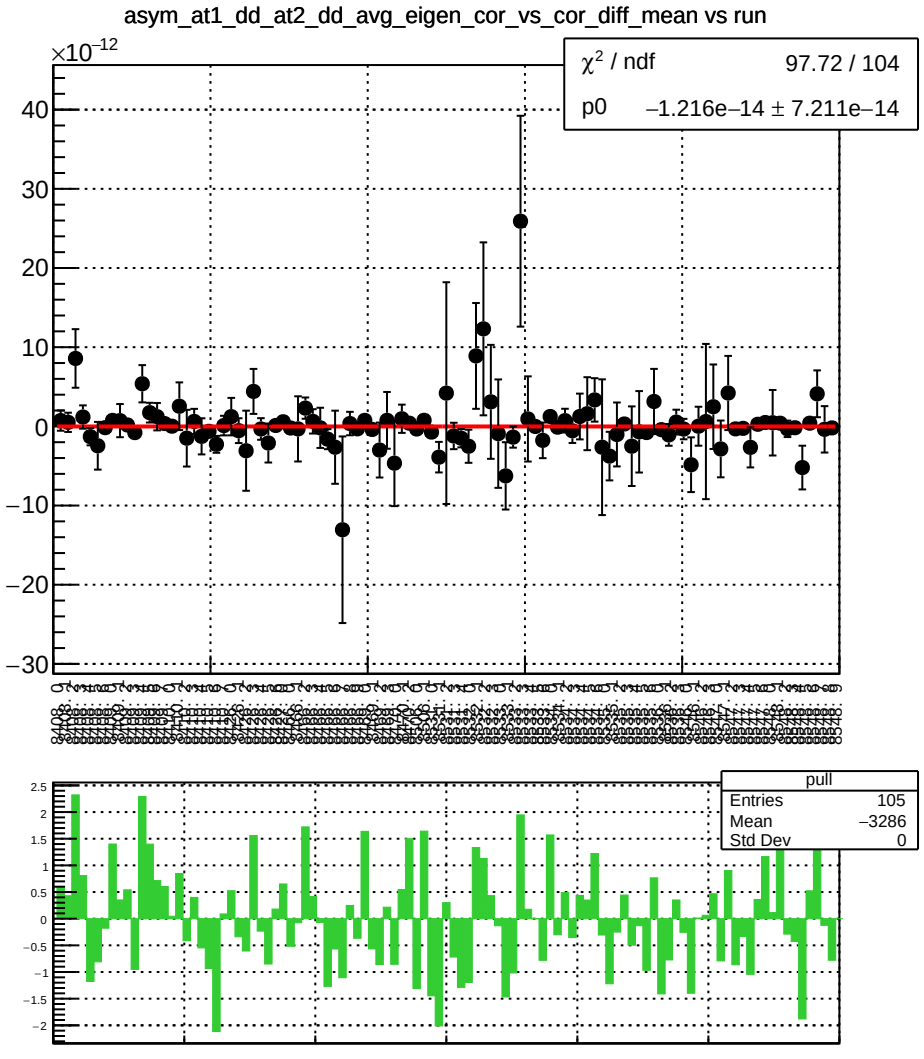

asym_at1_dd_at2_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.076e+05 / 104
p0 0.002127 ± 1.912e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

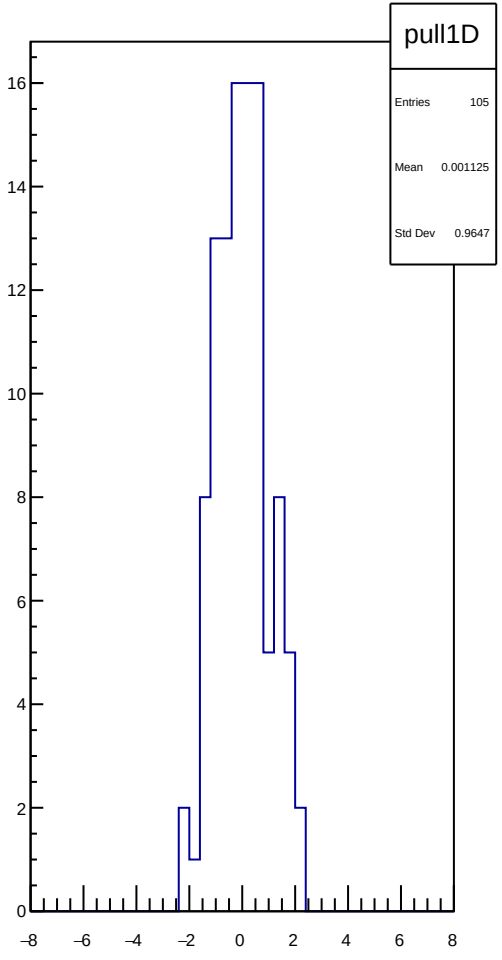

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 112.1 / 104
p0 −0.04488 ± 0.04802
pull
Entries 105
Mean 27.16
Std Dev 80.38
pull1D
Entries 105
Mean −0.01649
Std Dev 1.033

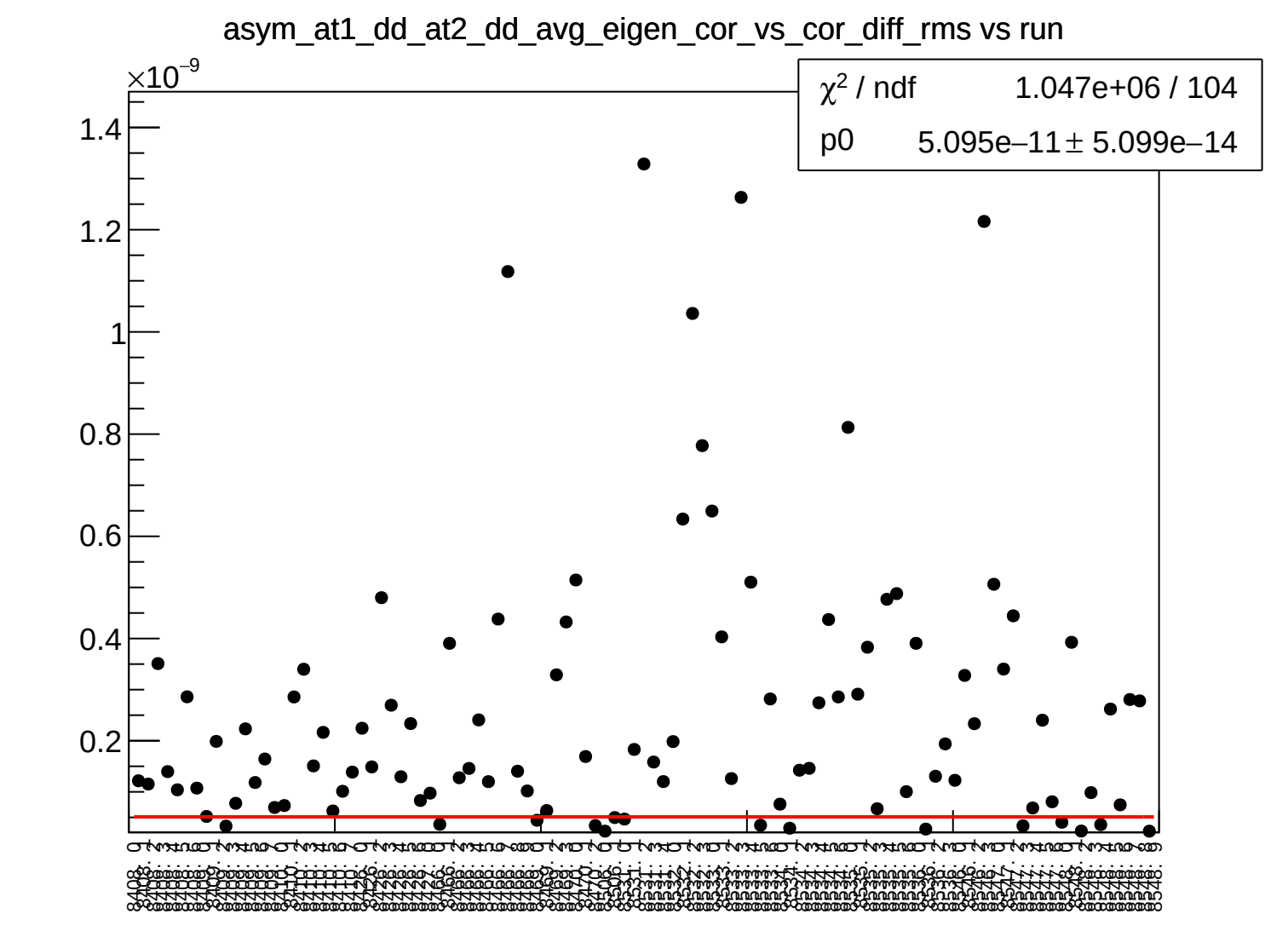

asym_at1_dd_at2_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.332e+06 / 104
p0 28.7 ± 0.03396
700
600
500
400
300
200
100

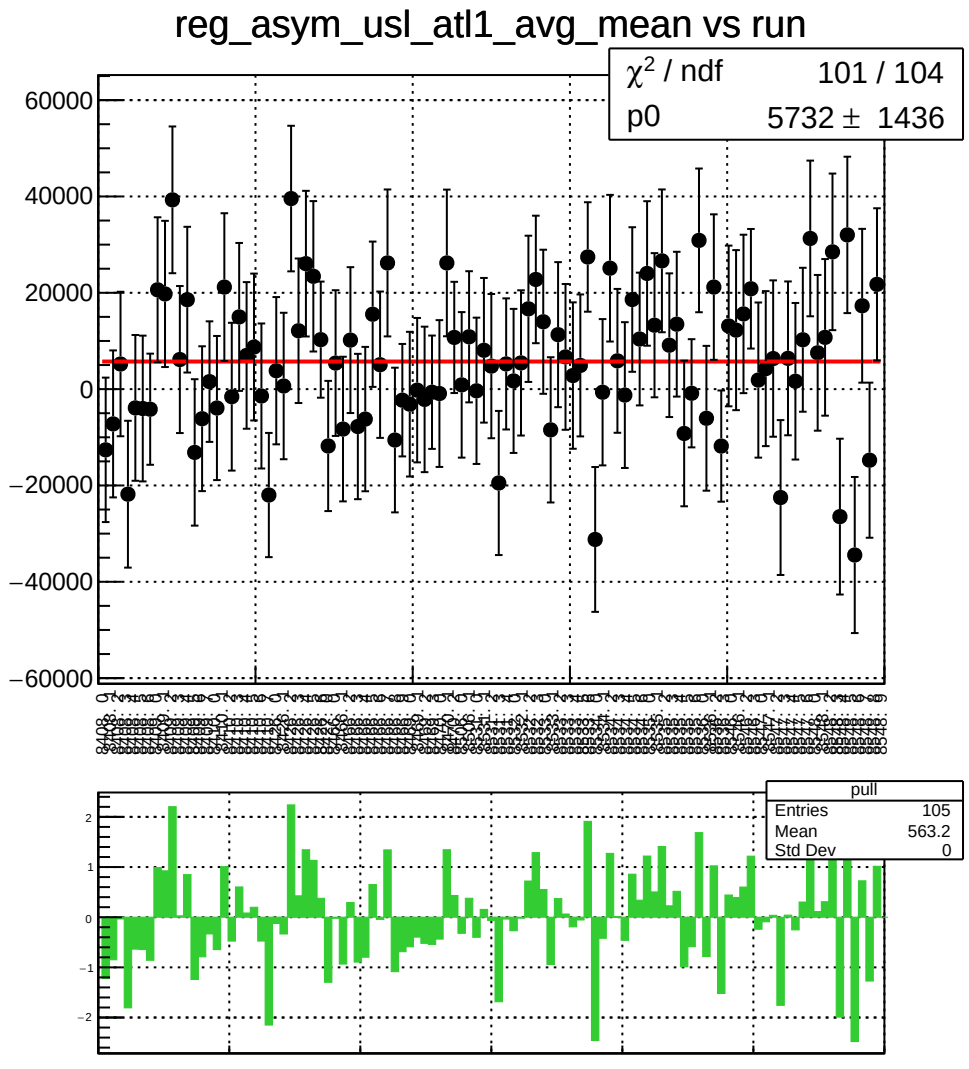

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 112.1 / 104
p0 −0.04488 ± 0.04802
pull
Entries 105
Mean 27.16
Std Dev 80.38
pull1D
Entries 105
Mean −0.01649
Std Dev 1.033

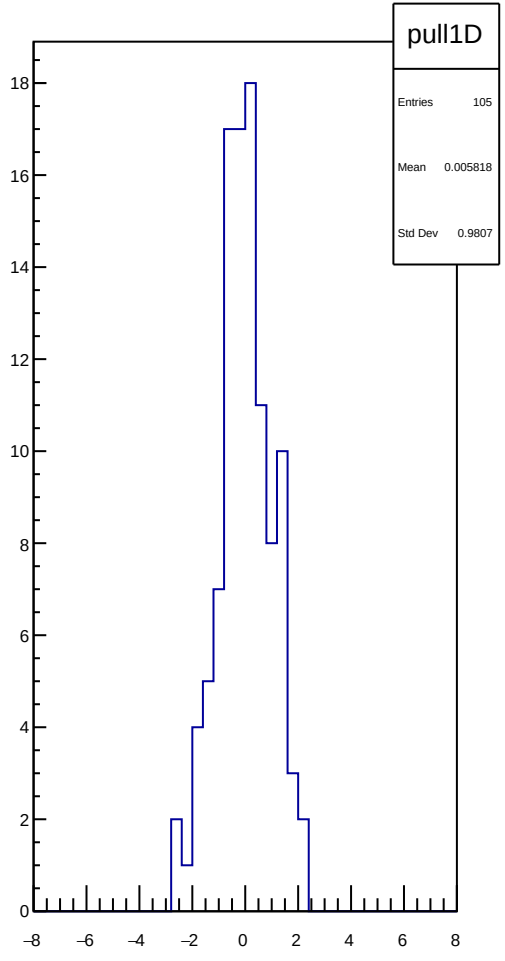

asym_at1_dd_at2_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.332e+06 / 104
p0 28.7 ± 0.03396
700
600
500
400
300
200
100

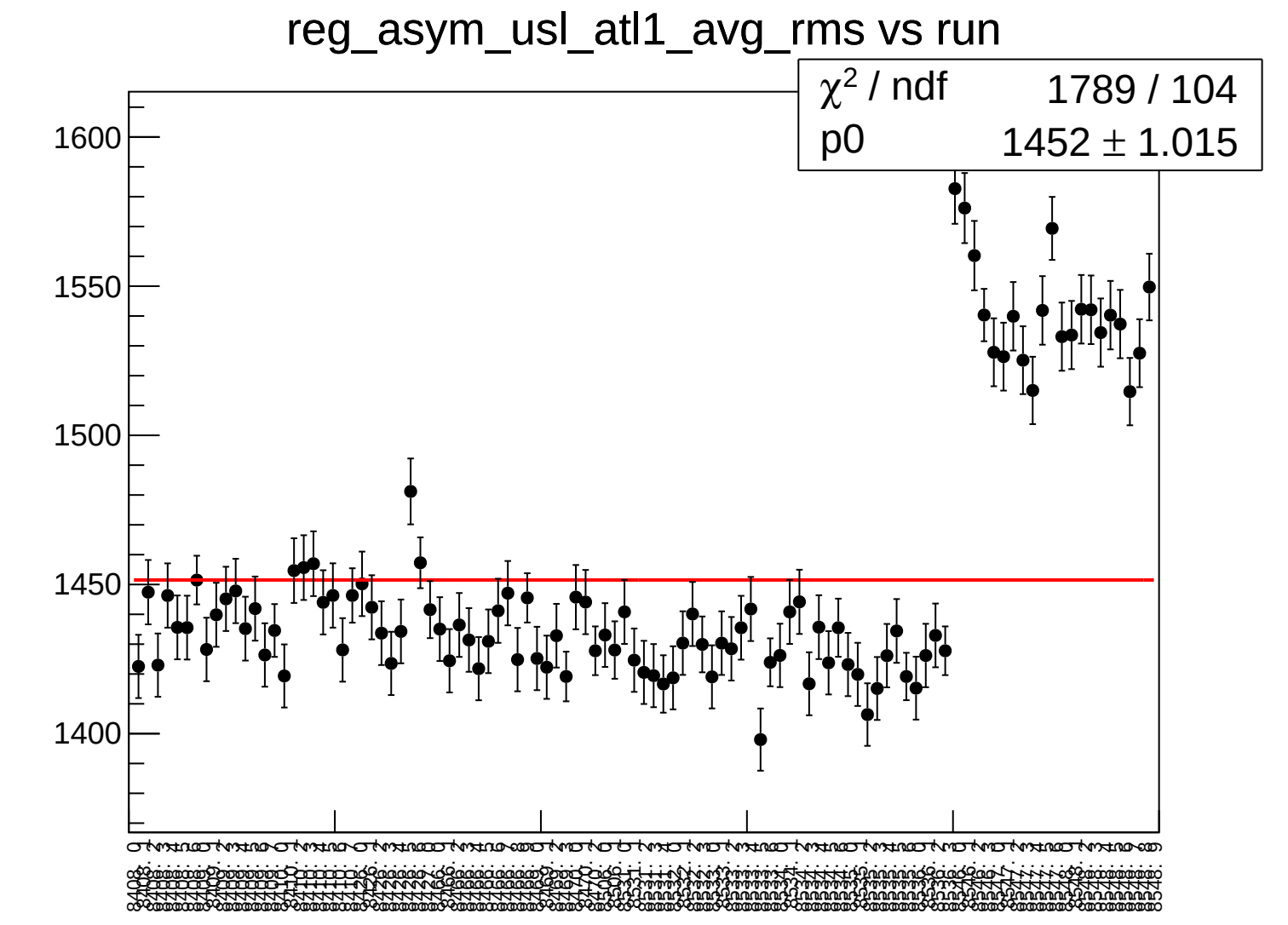

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.72 / 104
p0 −1.216e−14 ± 7.211e−14
pull
Entries 105
Mean −3286
Std Dev 0

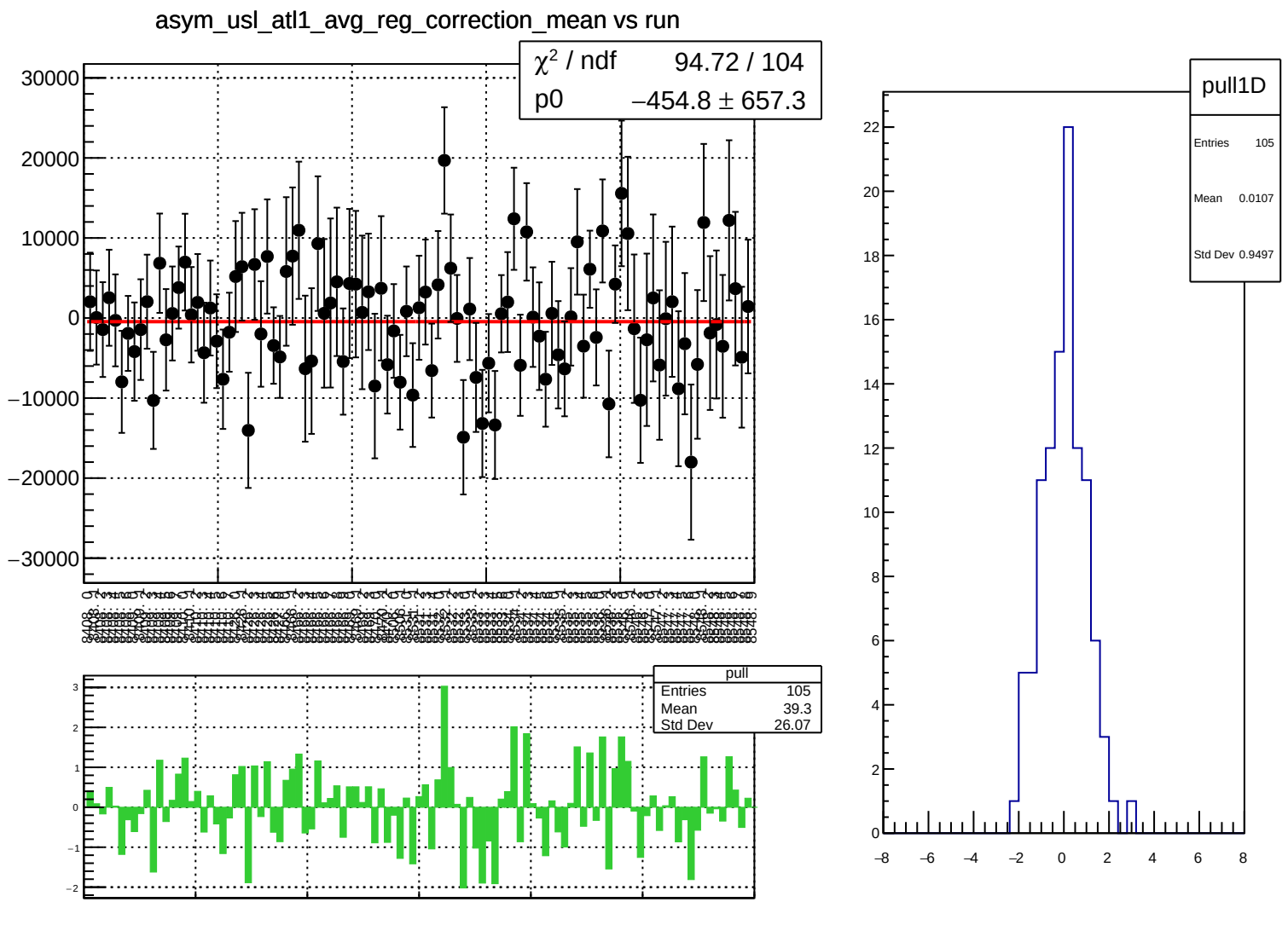

pull1D
Entries 105
Mean 0.001125
Std Dev 0.9647

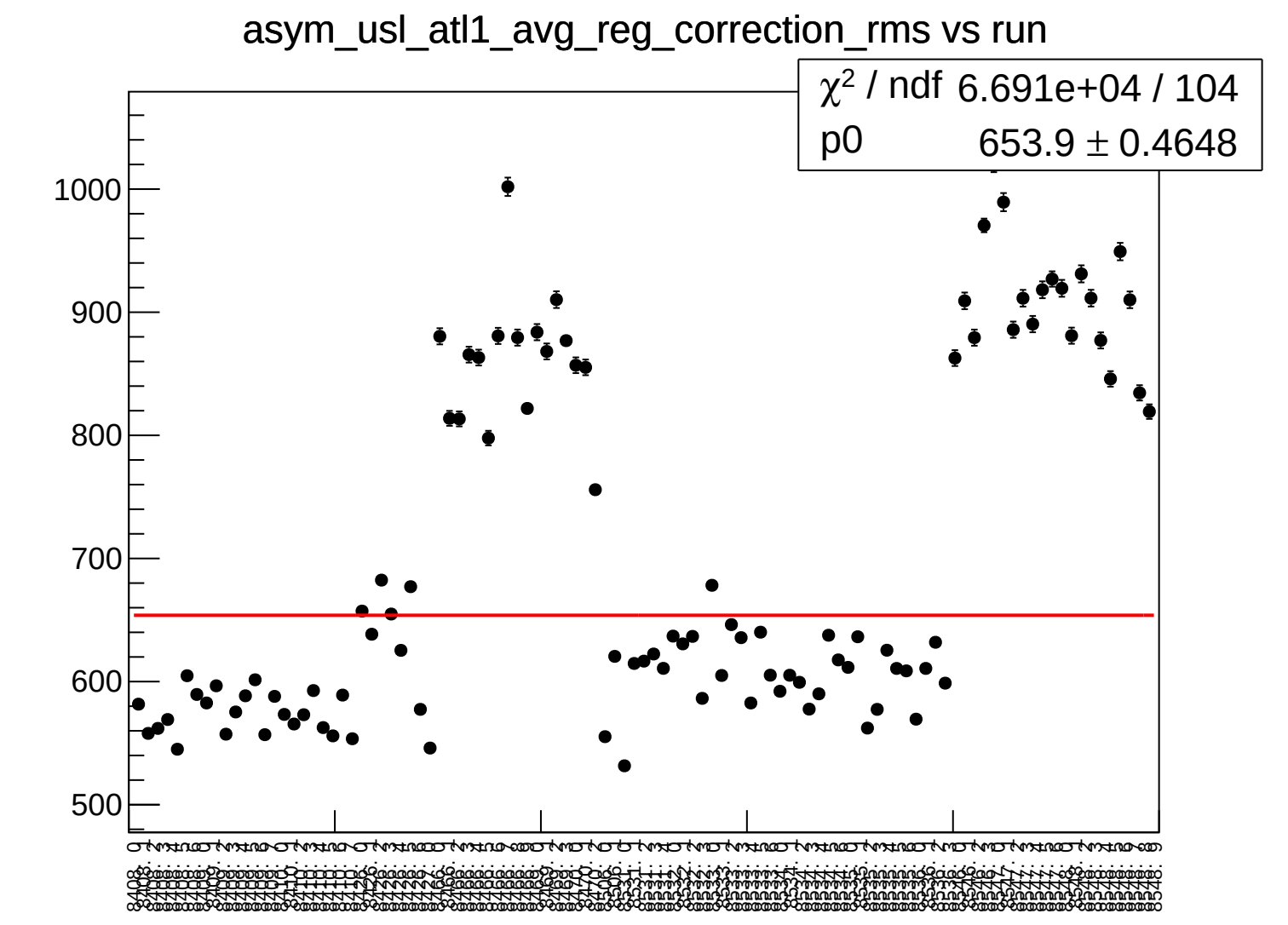

asym_at1_dd_at2_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.047e+06 / 104
p0 5.095e−11 ± 5.099e−14
1.4
1.2
1
0.8
0.6
0.4
0.2

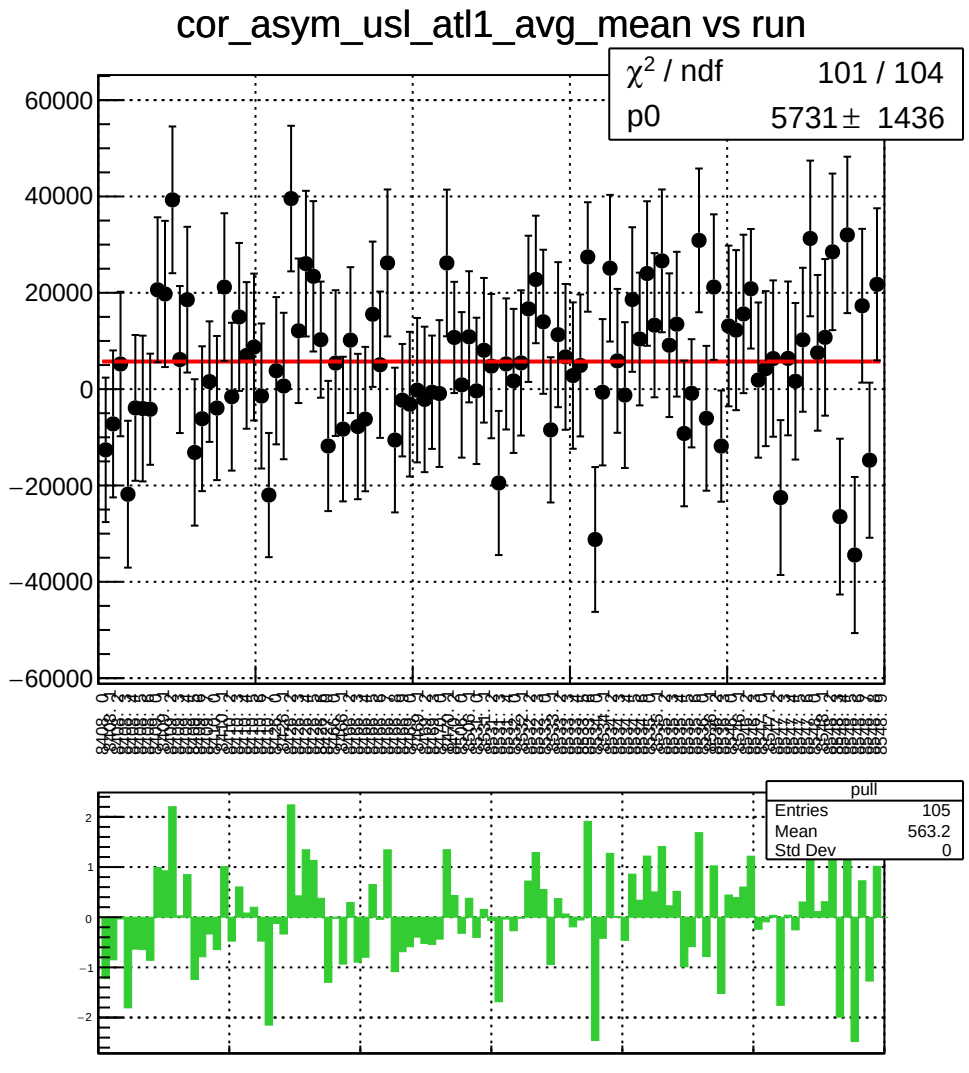

reg_asym_usl_atl1_avg_mean vs run
χ² / ndf 101 / 104
p0 5732 ± 1436
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean 563.2
Std Dev 0
2
1
0
−1
−2

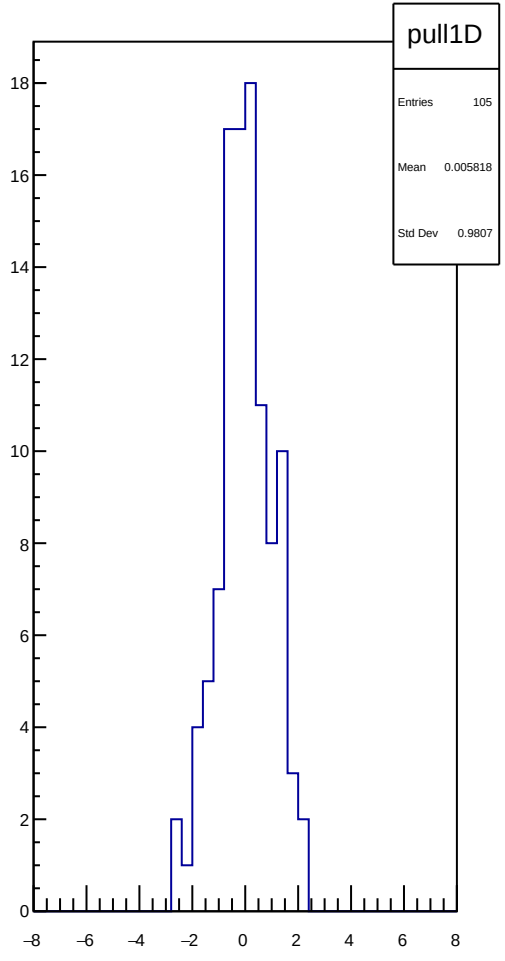

pull1D
Entries 105
Mean 0.005818
Std Dev 0.9807
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

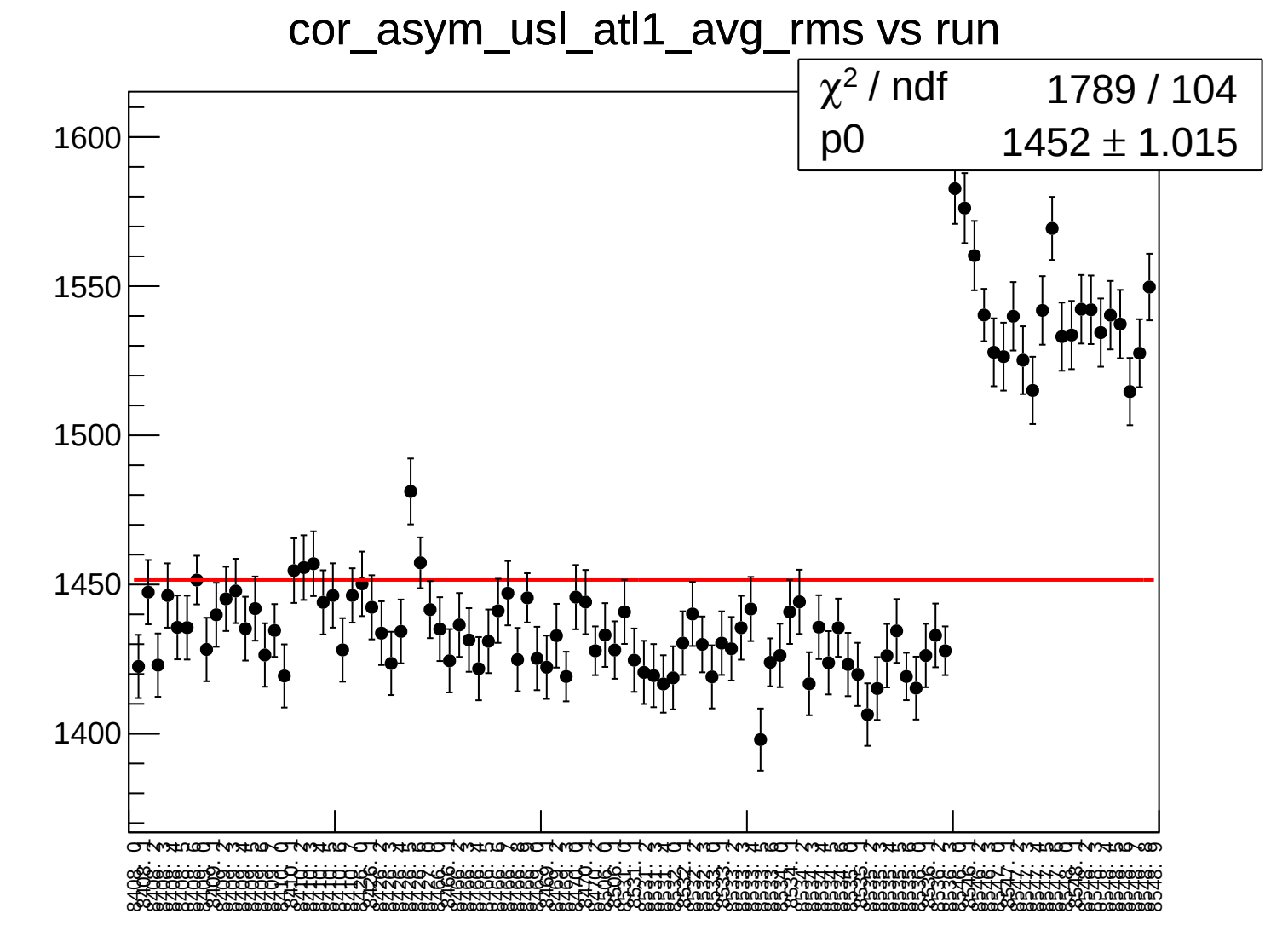

reg_asym_usl_atl1_avg_rms vs run
χ² / ndf 1789 / 104
p0 1452 ± 1.015
1600
1550
1500
1450
1400

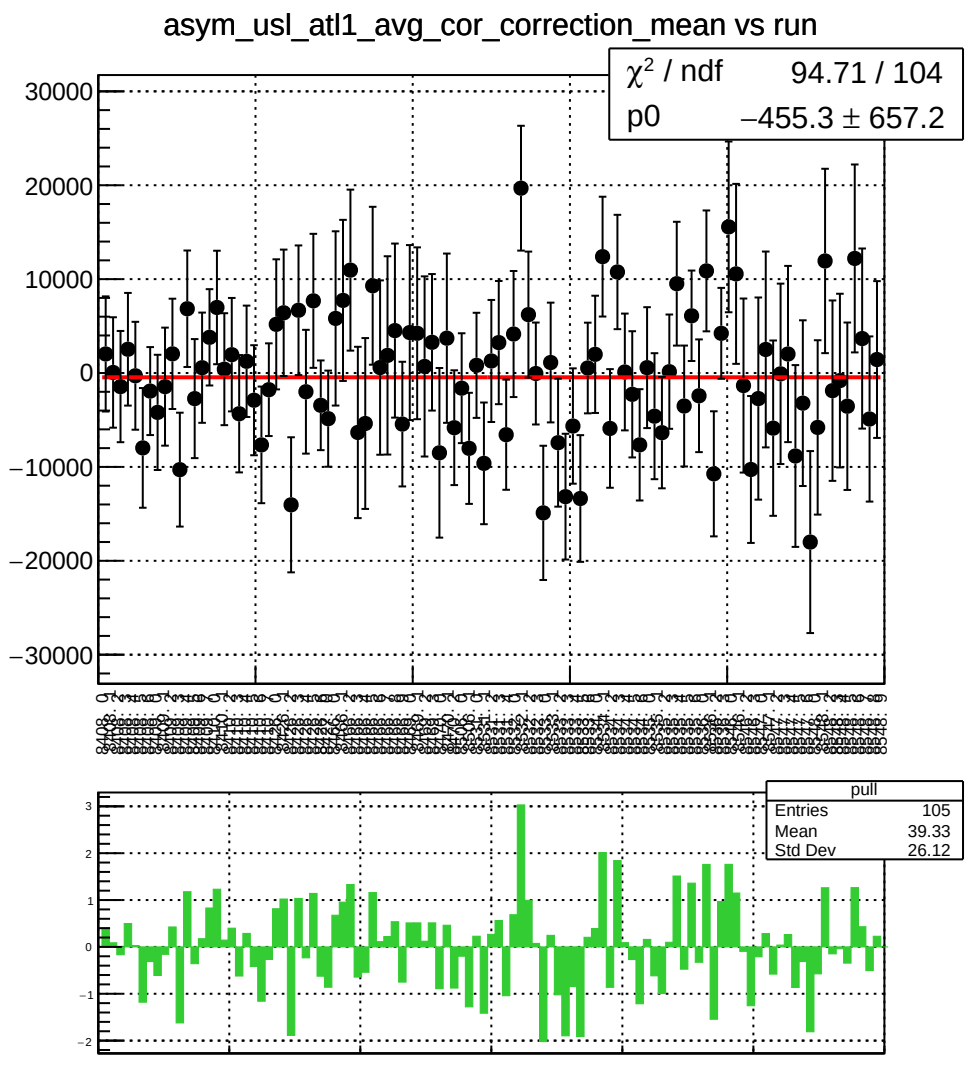

asym_usl_atl1_avg_reg_correction_mean vs run
χ² / ndf 94.72 / 104
p0 −454.8 ± 657.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 105
Mean 39.3
Std Dev 26.07
3
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.0107
Std Dev 0.9497
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

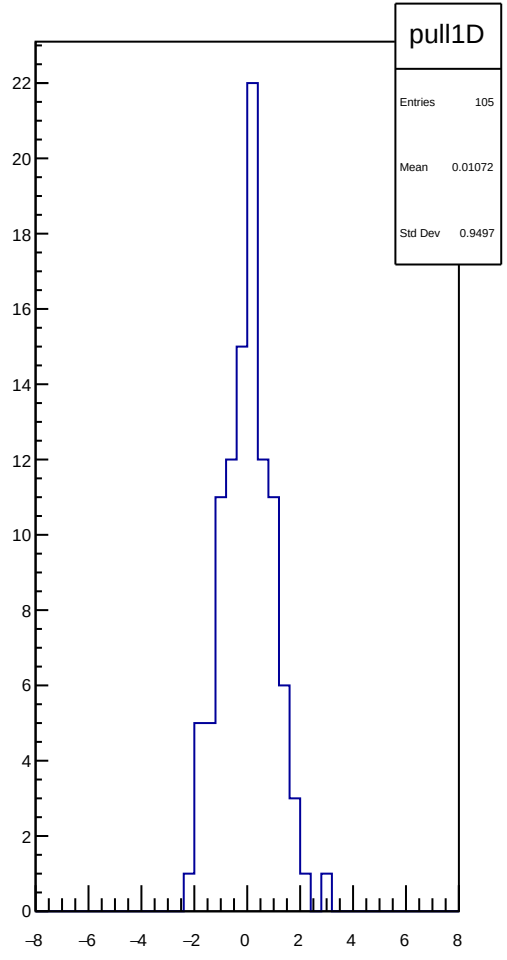

asym_usl_atl1_avg_reg_correction_rms vs run
χ² / ndf 6.691e+04 / 104
p0 653.9 ± 0.4648
1000
900
800
700
600
500


cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 101 / 104
p0 5731 ± 1436
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean 563.2
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 105
Mean 0.005818
Std Dev 0.9807
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 1789 / 104
p0 1452 ± 1.015
1600
1550
1500
1450
1400


asym_usl_atl1_avg_cor_correction_mean vs run
χ² / ndf 94.71 / 104
p0 −455.3 ± 657.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 105
Mean 39.33
Std Dev 26.12
3
2
1
0
−1
−2


pull1D
Entries 105
Mean 0.01072
Std Dev 0.9497
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
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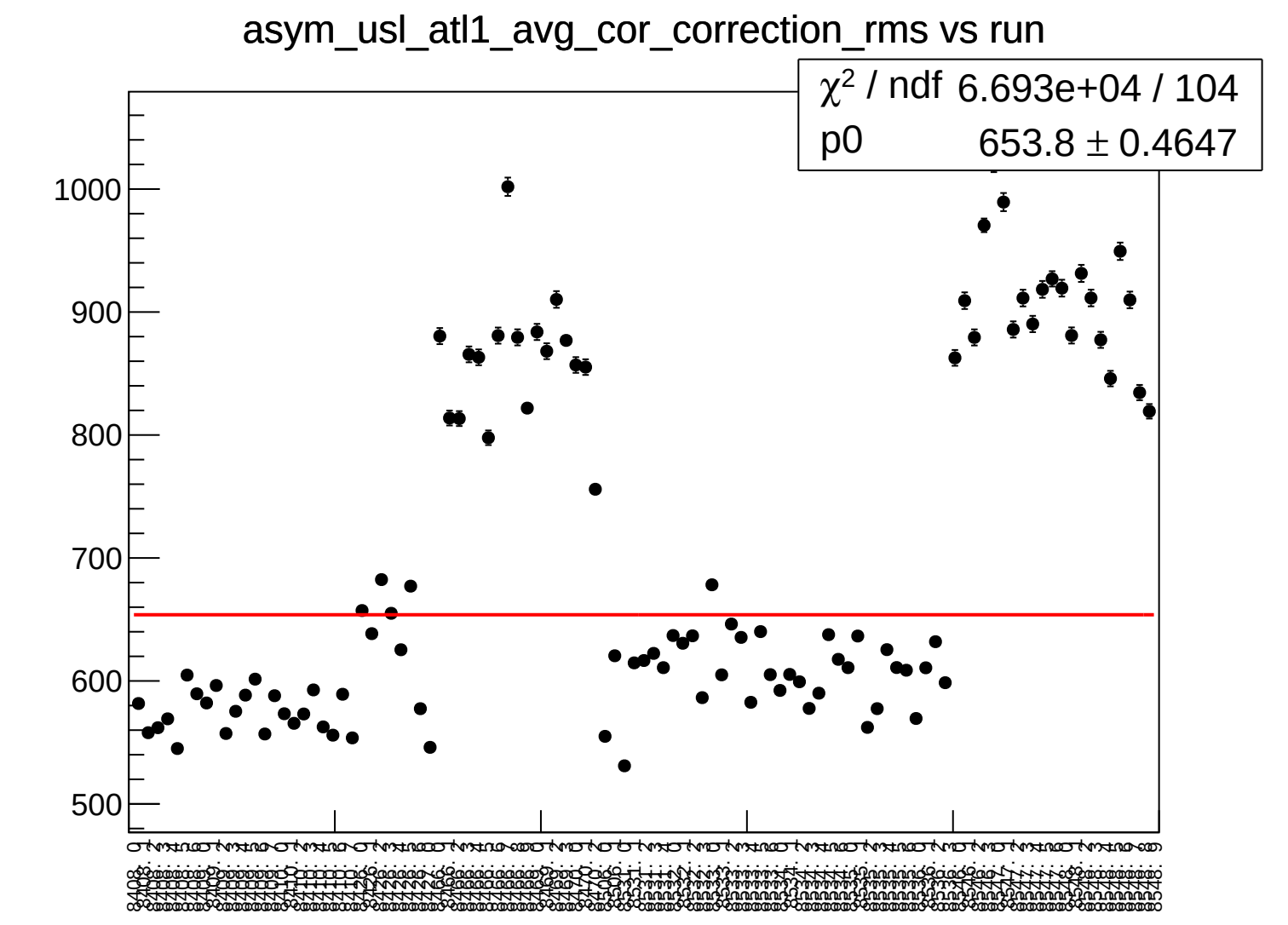
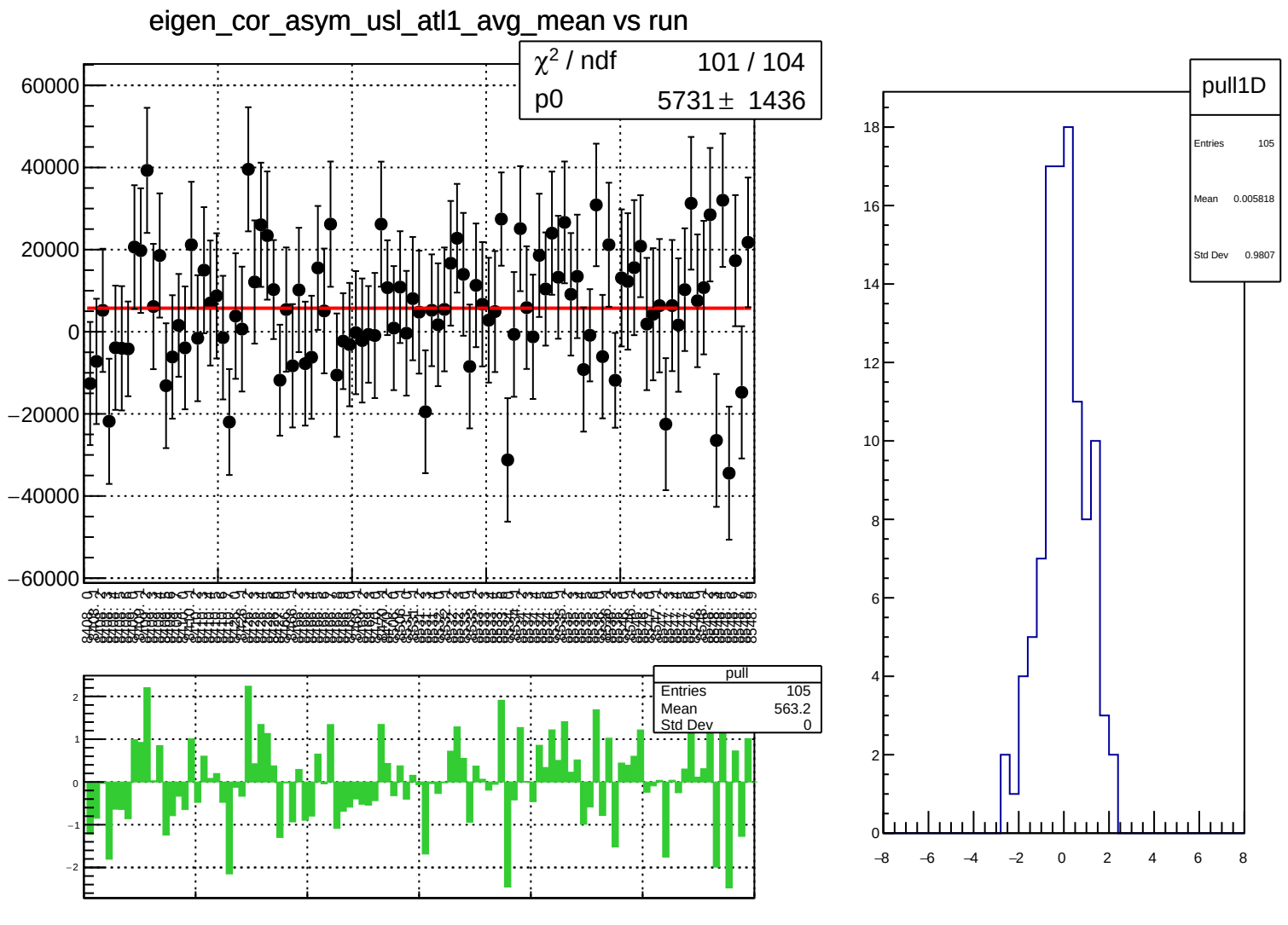
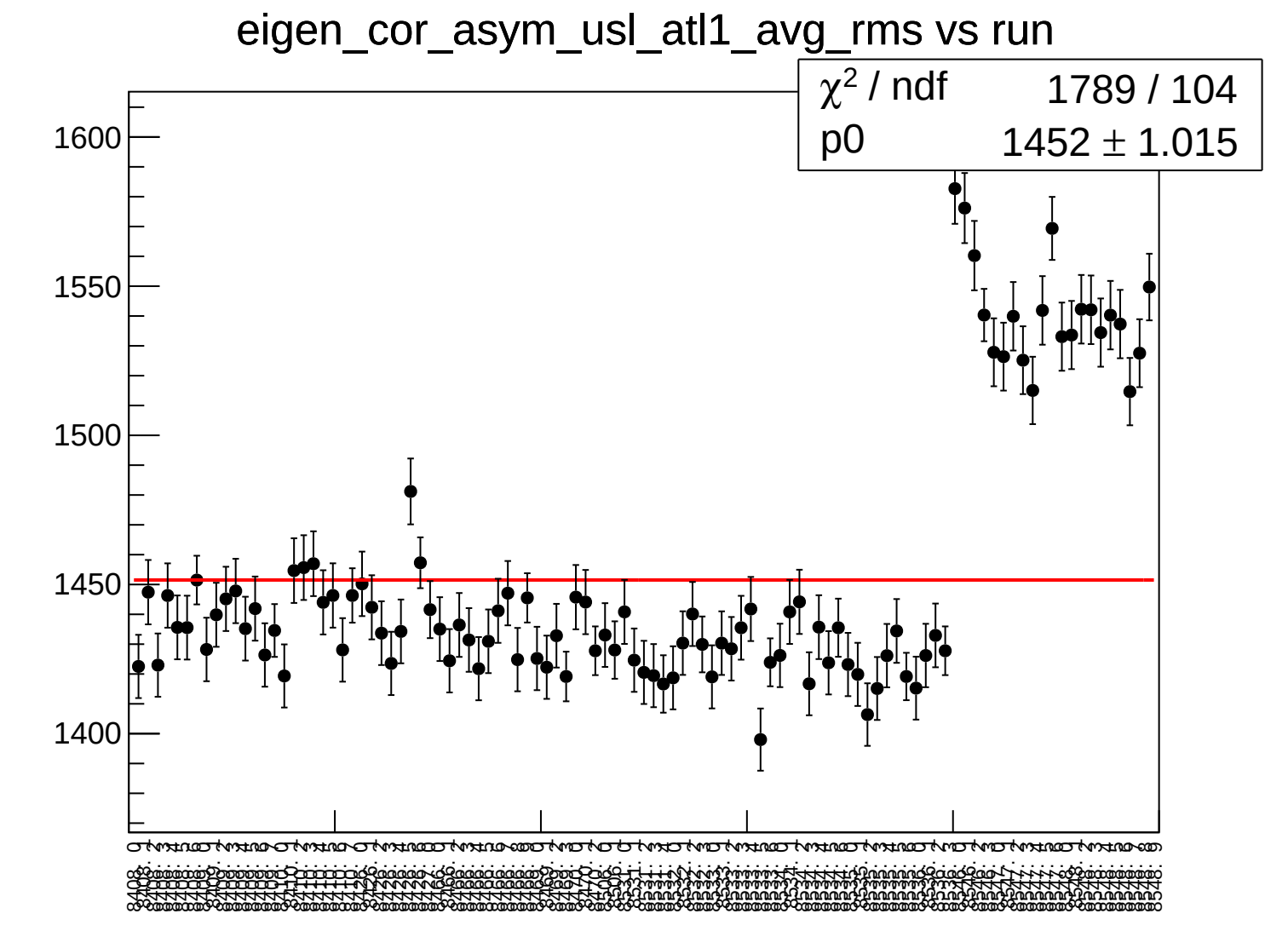
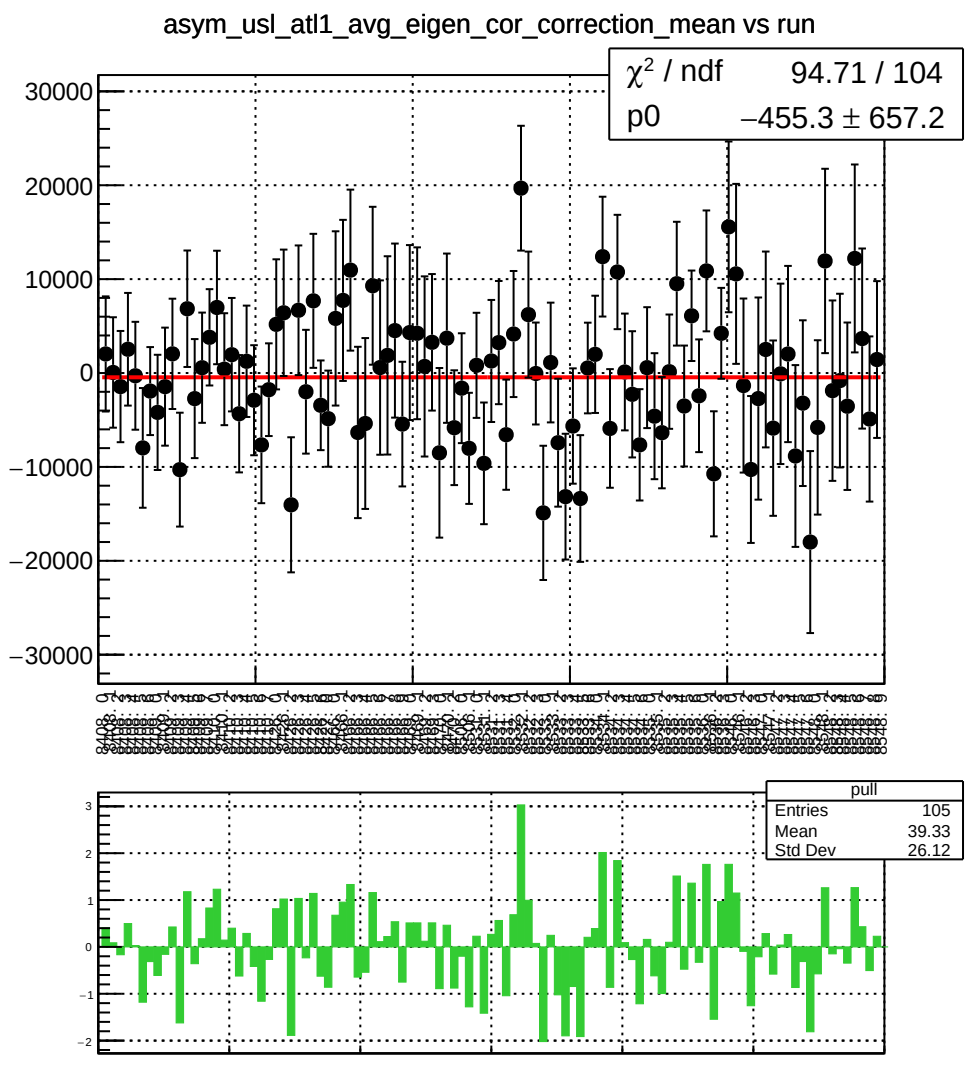
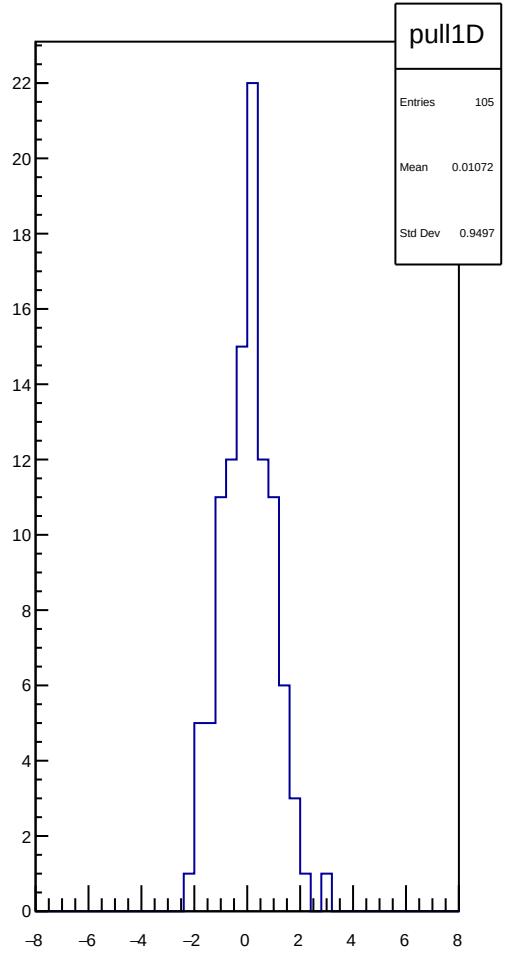
0
2
4
6
8


asym_usl_atl1_avg_cor_correction_rms vs run
χ² / ndf 6.693e+04 / 104
p0 653.8 ± 0.4647
1000
900
800
700
600
500


eigen_cor_asym_usl_atl1_avg_mean vs run
χ² / ndf 101 / 104
p0 5731 ± 1436
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean 563.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.005818
Std Dev 0.9807
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_cor_asym_usl_atl1_avg_rms vs run
χ² / ndf 1789 / 104
p0 1452 ± 1.015
1600
1550
1500
1450
1400


asym_usl_atl1_avg_eigen_cor_correction_mean vs run
χ² / ndf 94.71 / 104
p0 −455.3 ± 657.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 105
Mean 39.33
Std Dev 26.12
3
2
1
0
−1
−2


pull1D
Entries 105
Mean 0.01072
Std Dev 0.9497
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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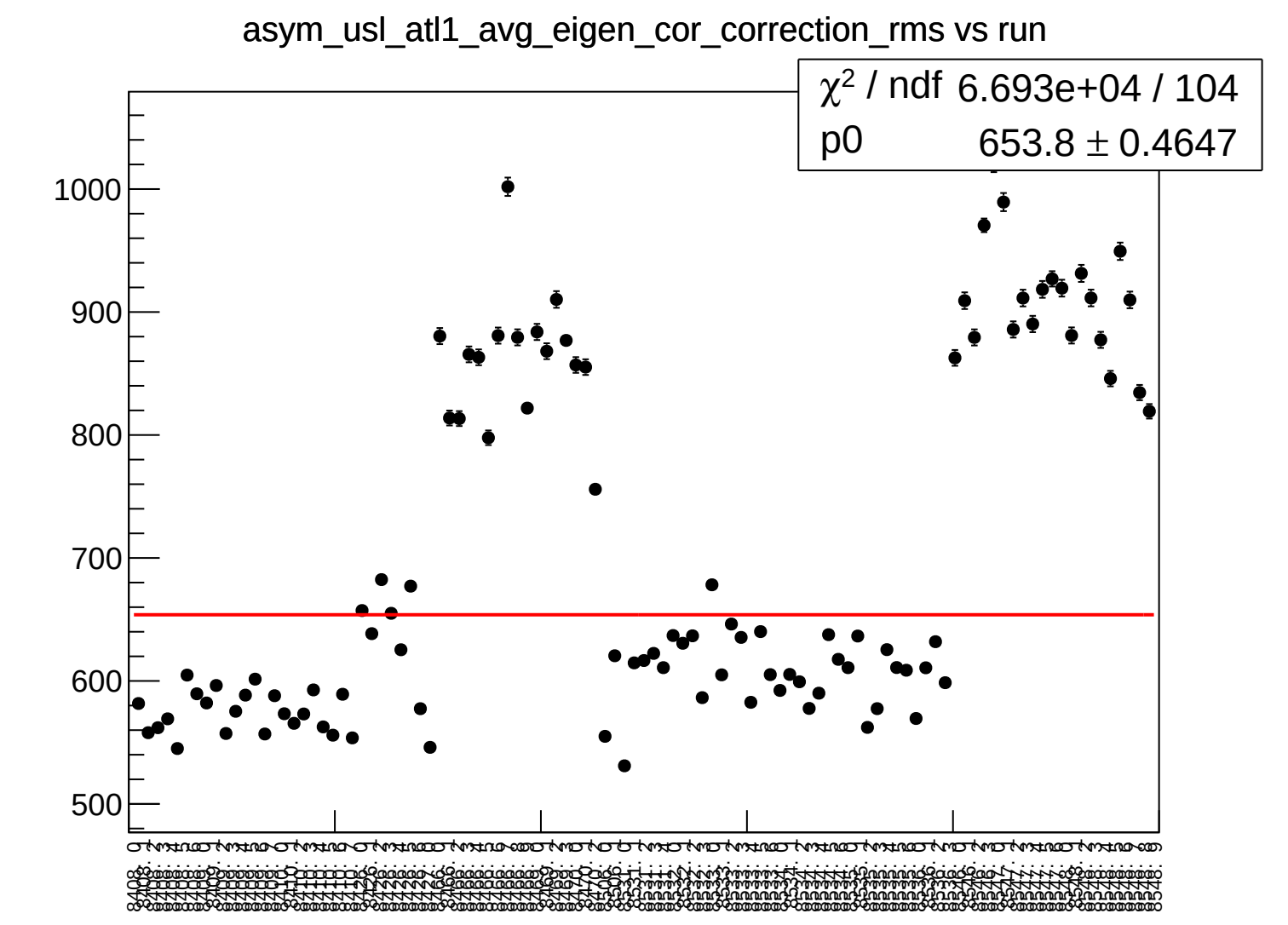
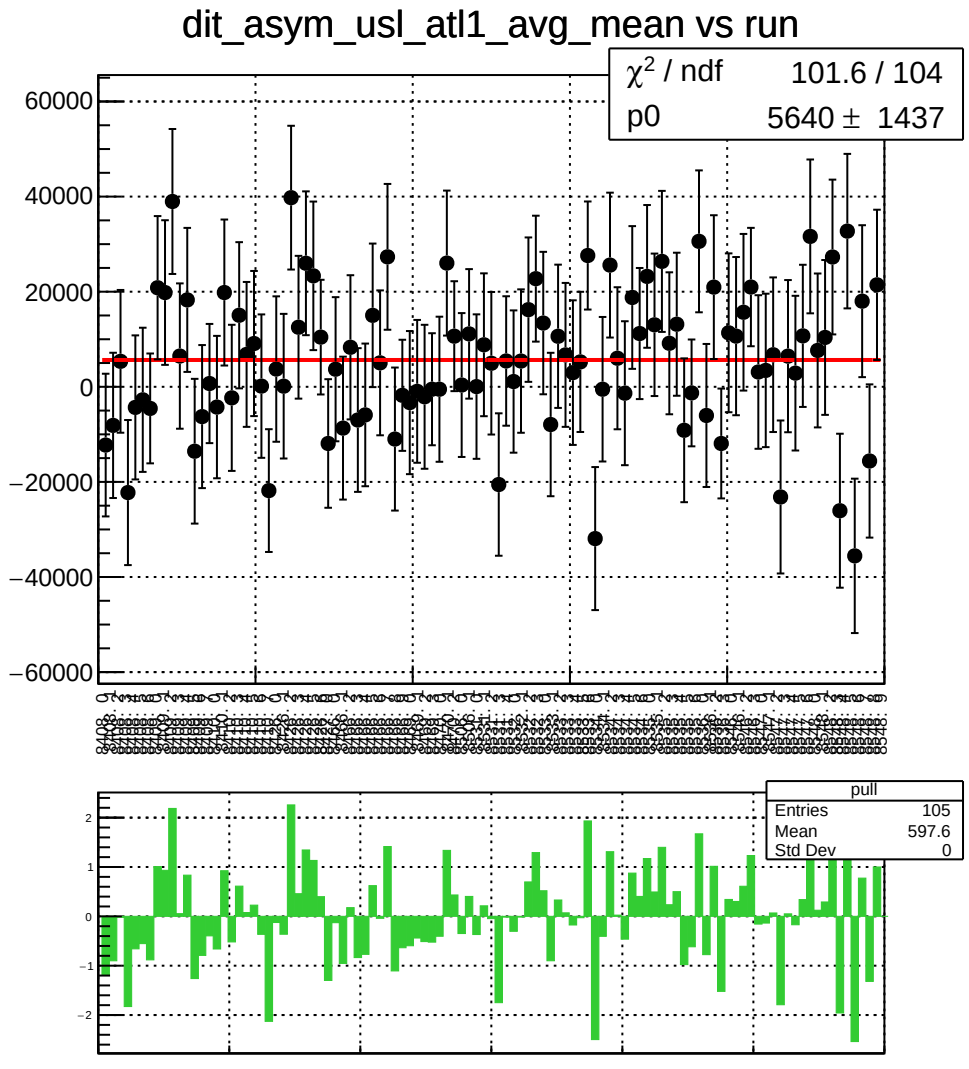
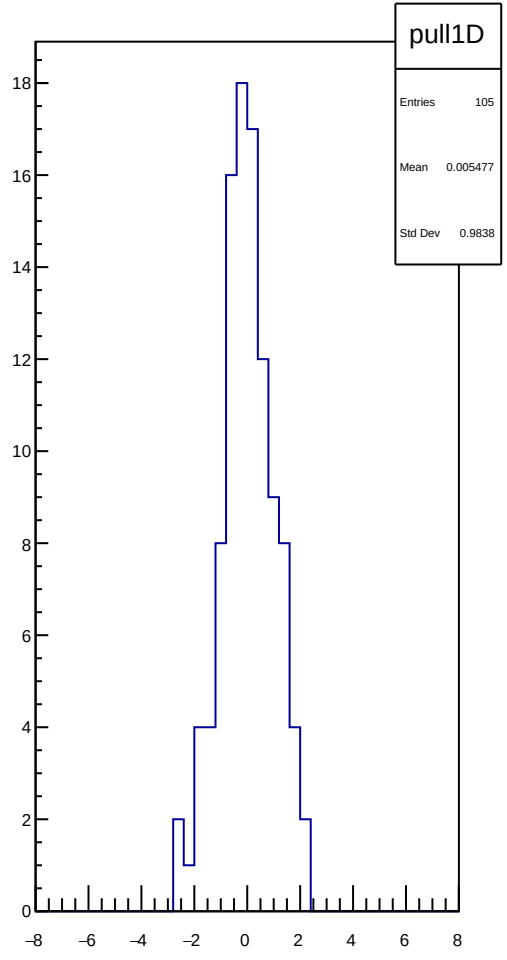
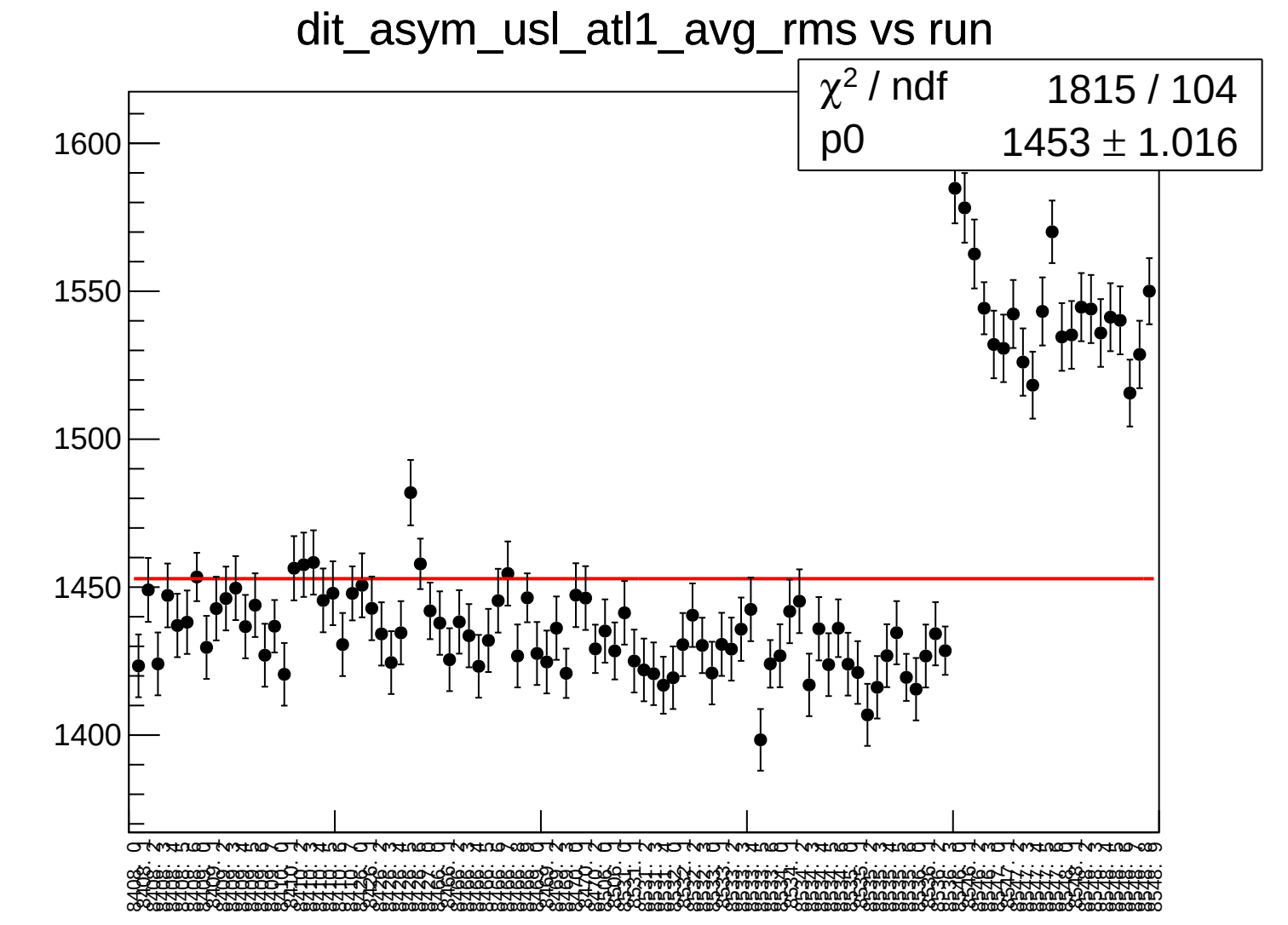
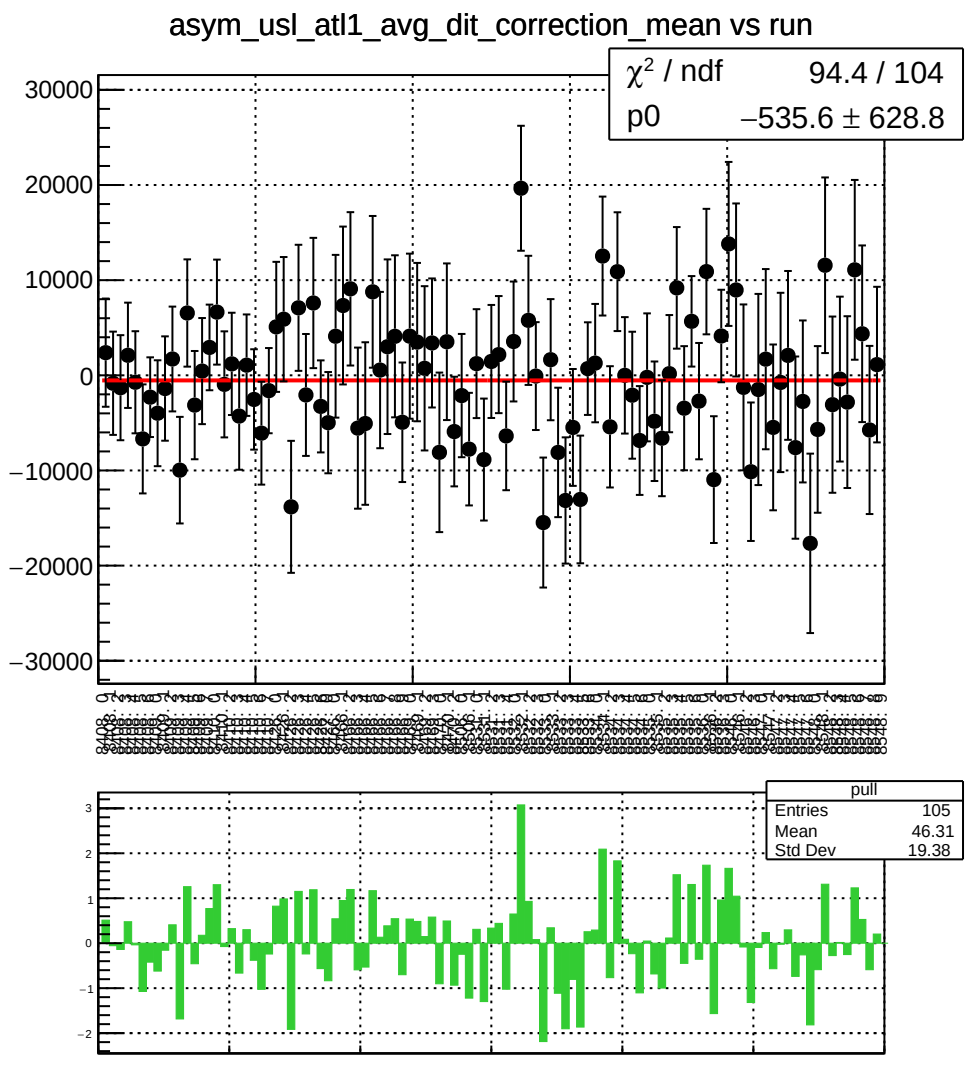
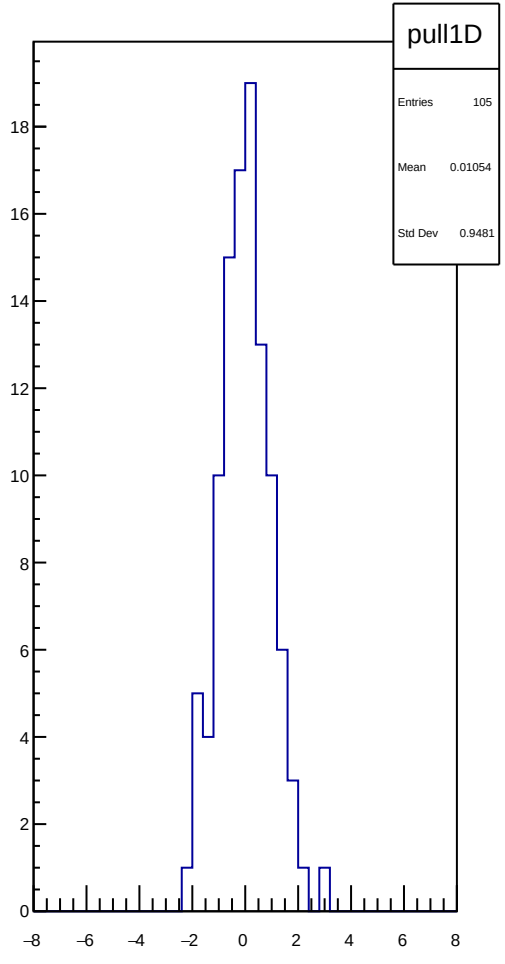

asym_usl_atl1_avg_eigen_cor_correction_rms vs run
χ² / ndf 6.693e+04 / 104
p0 653.8 ± 0.4647
1000
900
800
700
600
500

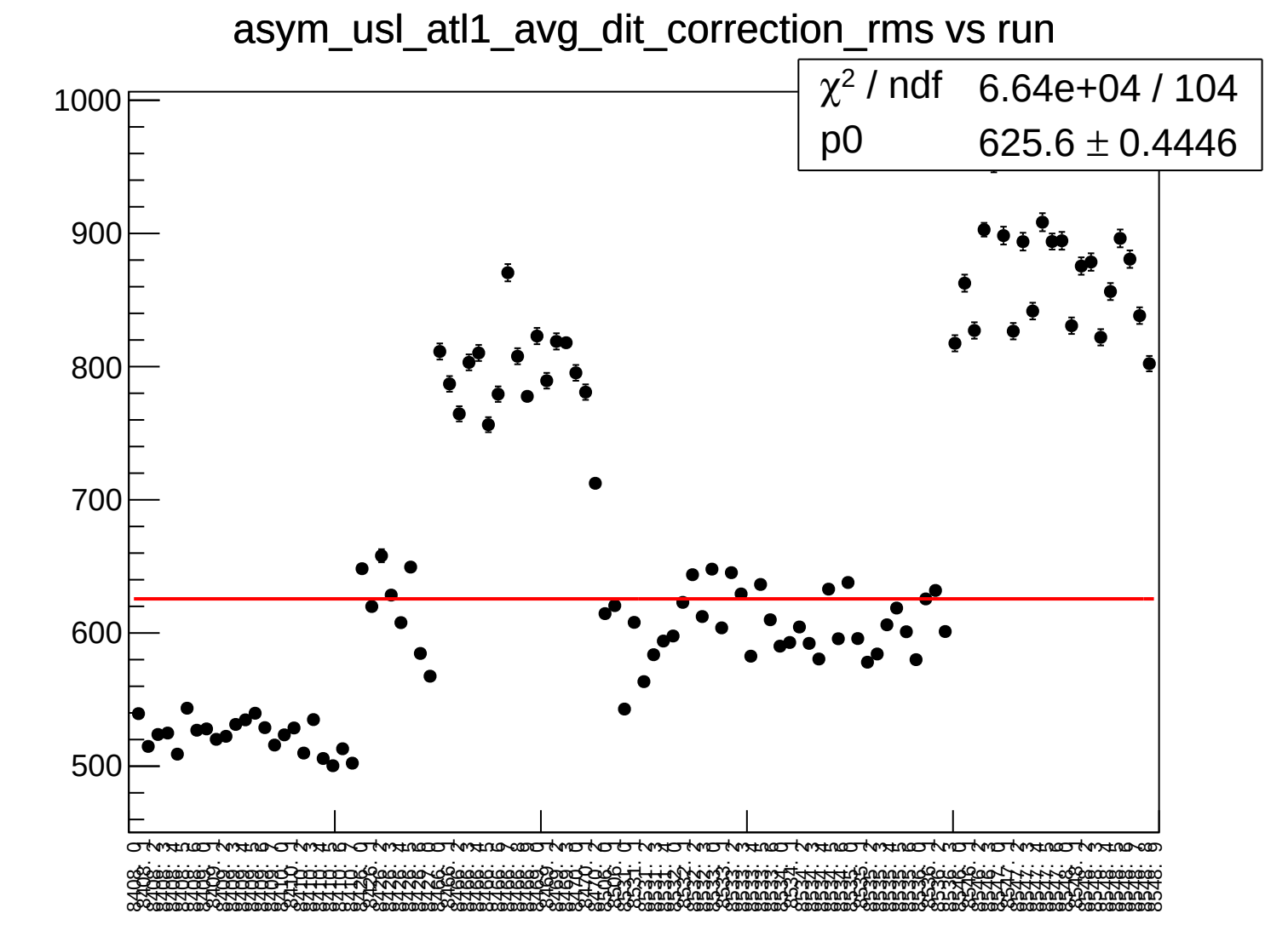

dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 101.6 / 104
p0 5640 ± 1437
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean 597.6
Std Dev 0
2
1
0
−1
−2

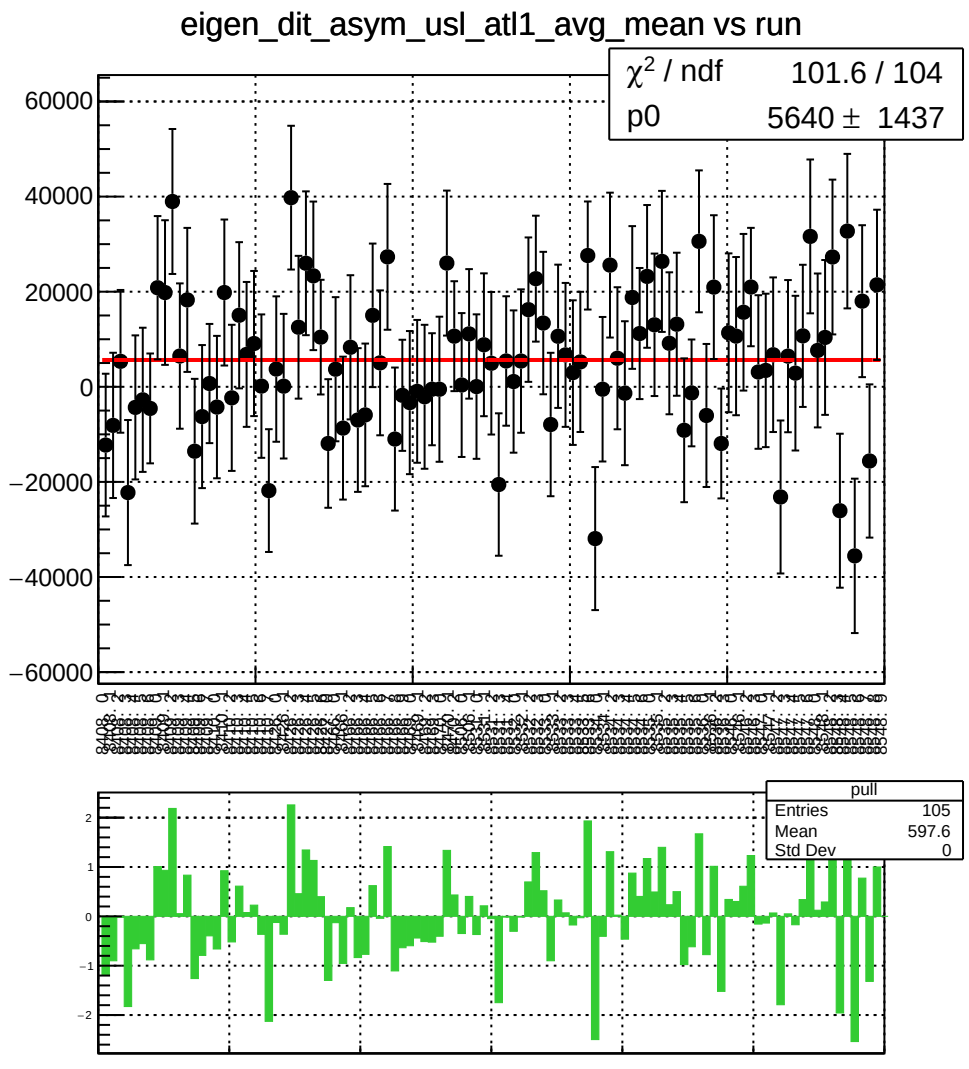

pull1D
Entries 105
Mean 0.005477
Std Dev 0.9838
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

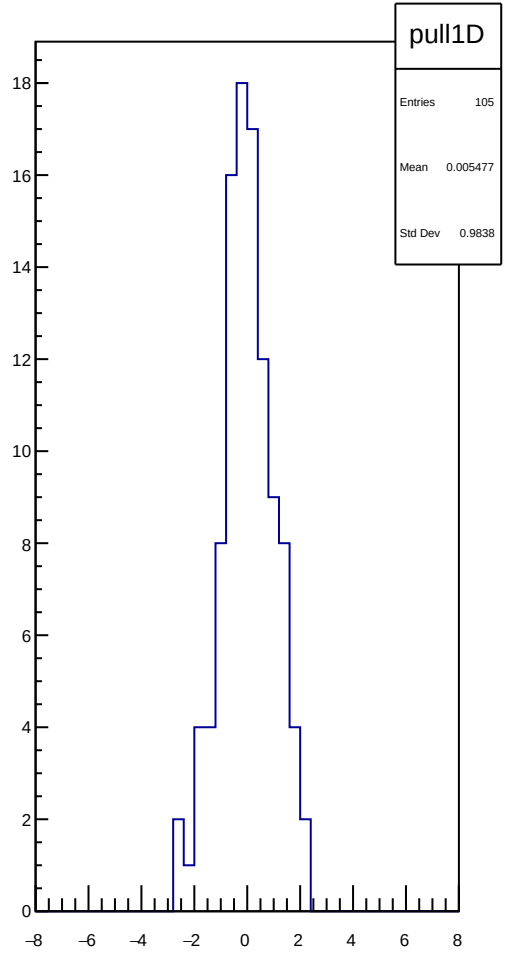

dit_asym_usl_atl1_avg_rms vs run
χ² / ndf 1815 / 104
p0 1453 ± 1.016
1600
1550
1500
1450
1400

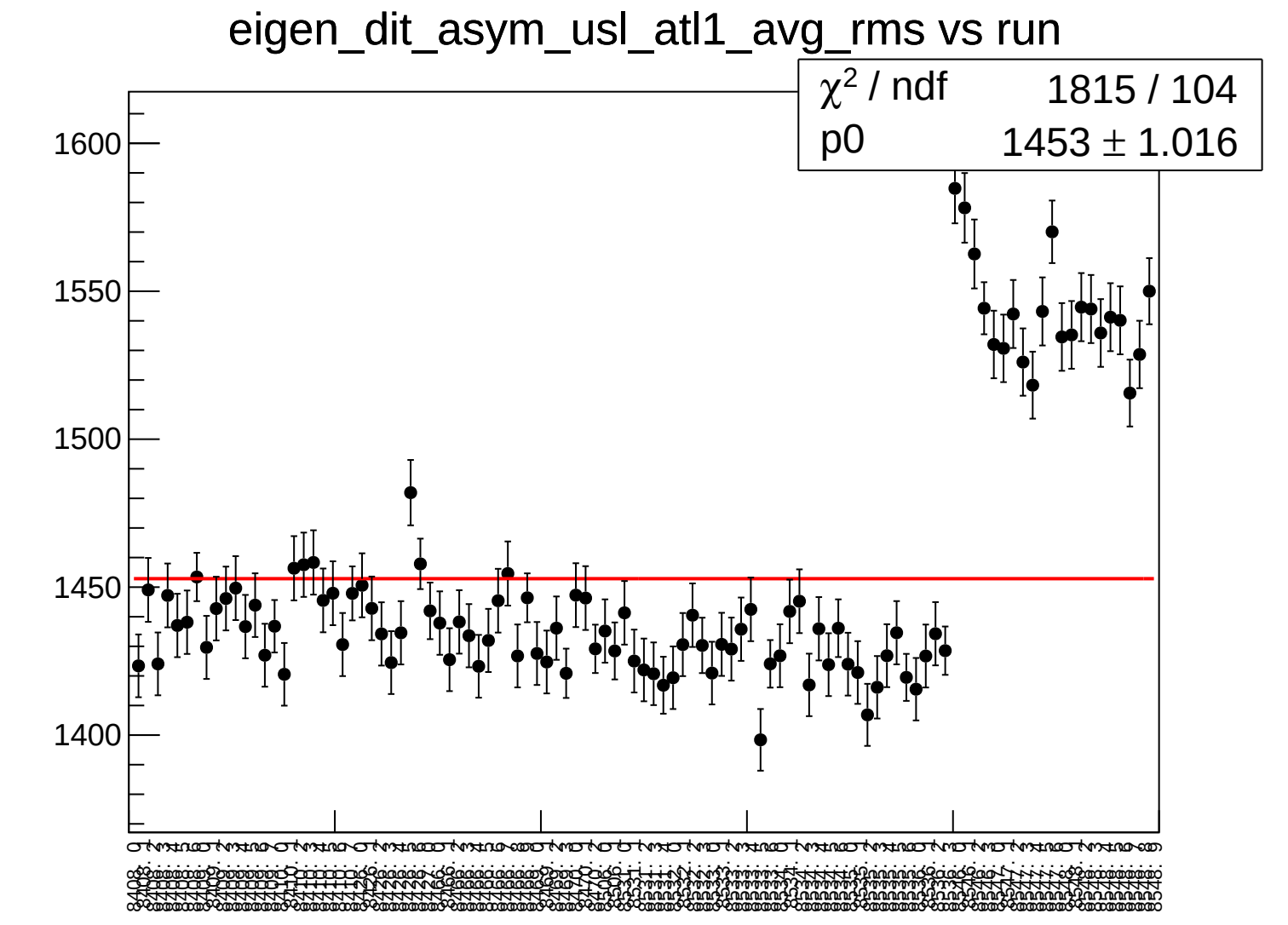

asym_usl_atl1_avg_dit_correction_mean vs run
χ² / ndf 94.4 / 104
p0 −535.6 ± 628.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 105
Mean 46.31
Std Dev 19.38
3
2
1
0
−1
−2

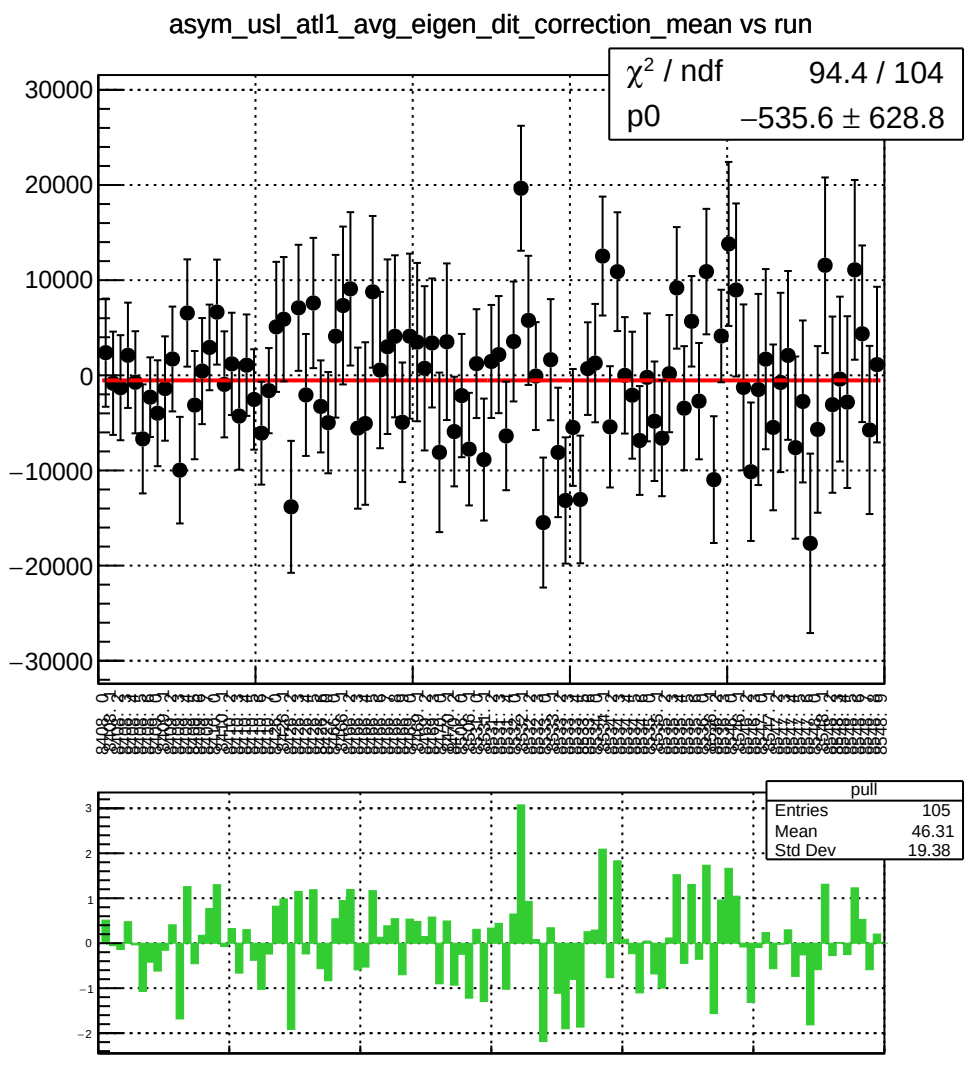

pull1D
Entries 105
Mean 0.01054
Std Dev 0.9481
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

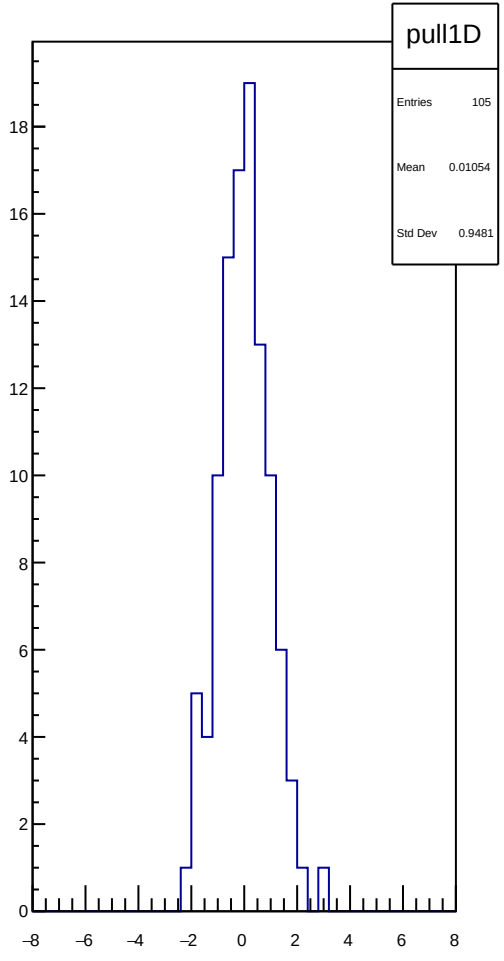

asym_usl_atl1_avg_dit_correction_rms vs run
χ² / ndf 6.64e+04 / 104
p0 625.6 ± 0.4446
1000
900
800
700
600
500


eigen_dit_asym_usl_atl1_avg_mean vs run
χ² / ndf 101.6 / 104
p0 5640 ± 1437
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean 597.6
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 105
Mean 0.005477
Std Dev 0.9838
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 1815 / 104
p0 1453 ± 1.016
1600
1550
1500
1450
1400


asym_usl_atl1_avg_eigen_dit_correction_mean vs run
χ² / ndf 94.4 / 104
p0 −535.6 ± 628.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 105
Mean 46.31
Std Dev 19.38
3
2
1
0
−1
−2


pull1D
Entries 105
Mean 0.01054
Std Dev 0.9481
18
16
14
12
10
8
6
4
2
0
−8
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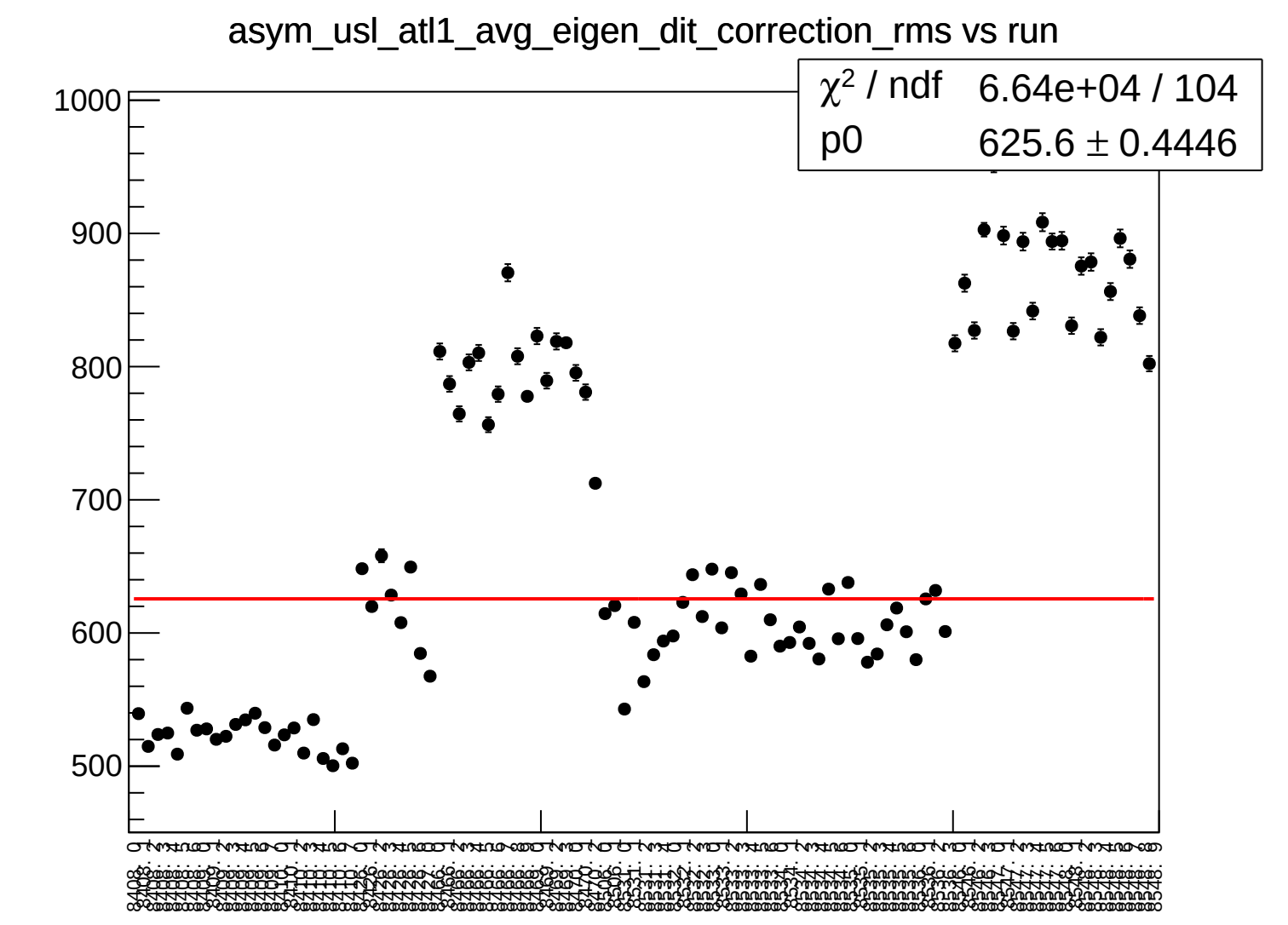
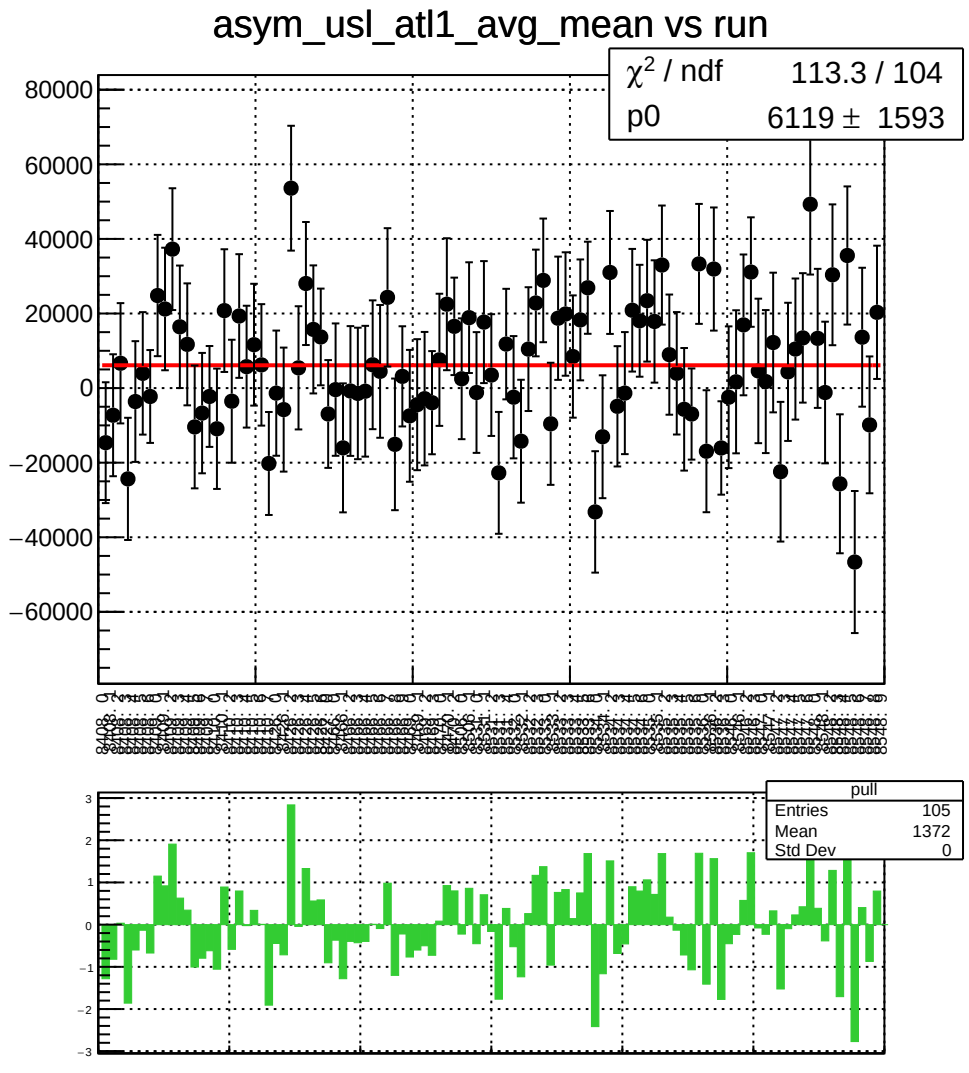
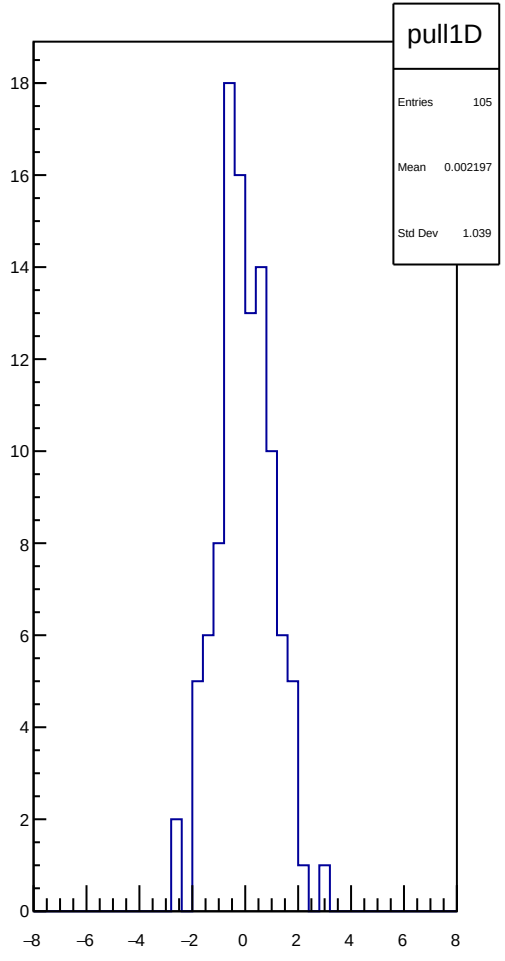
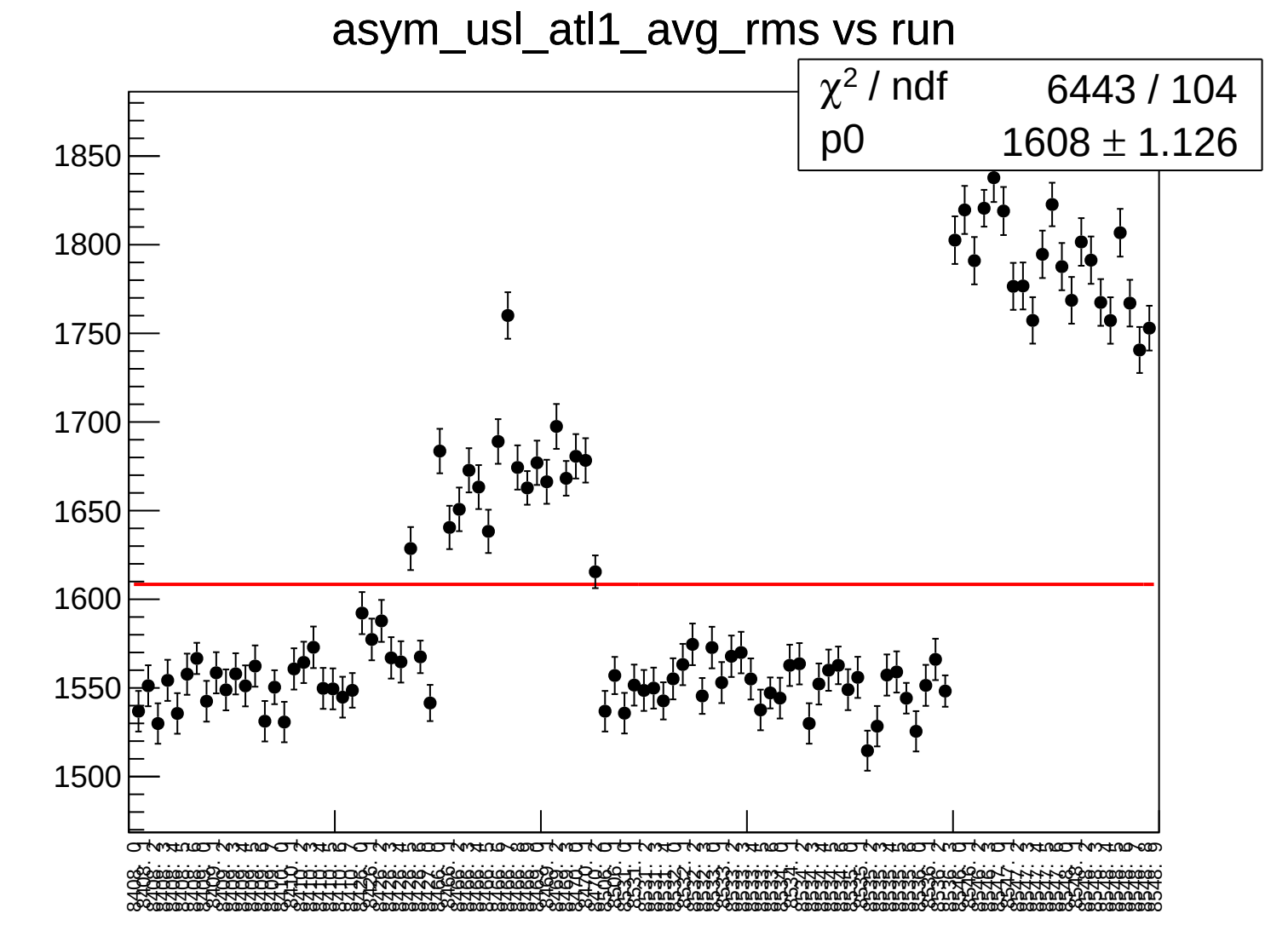
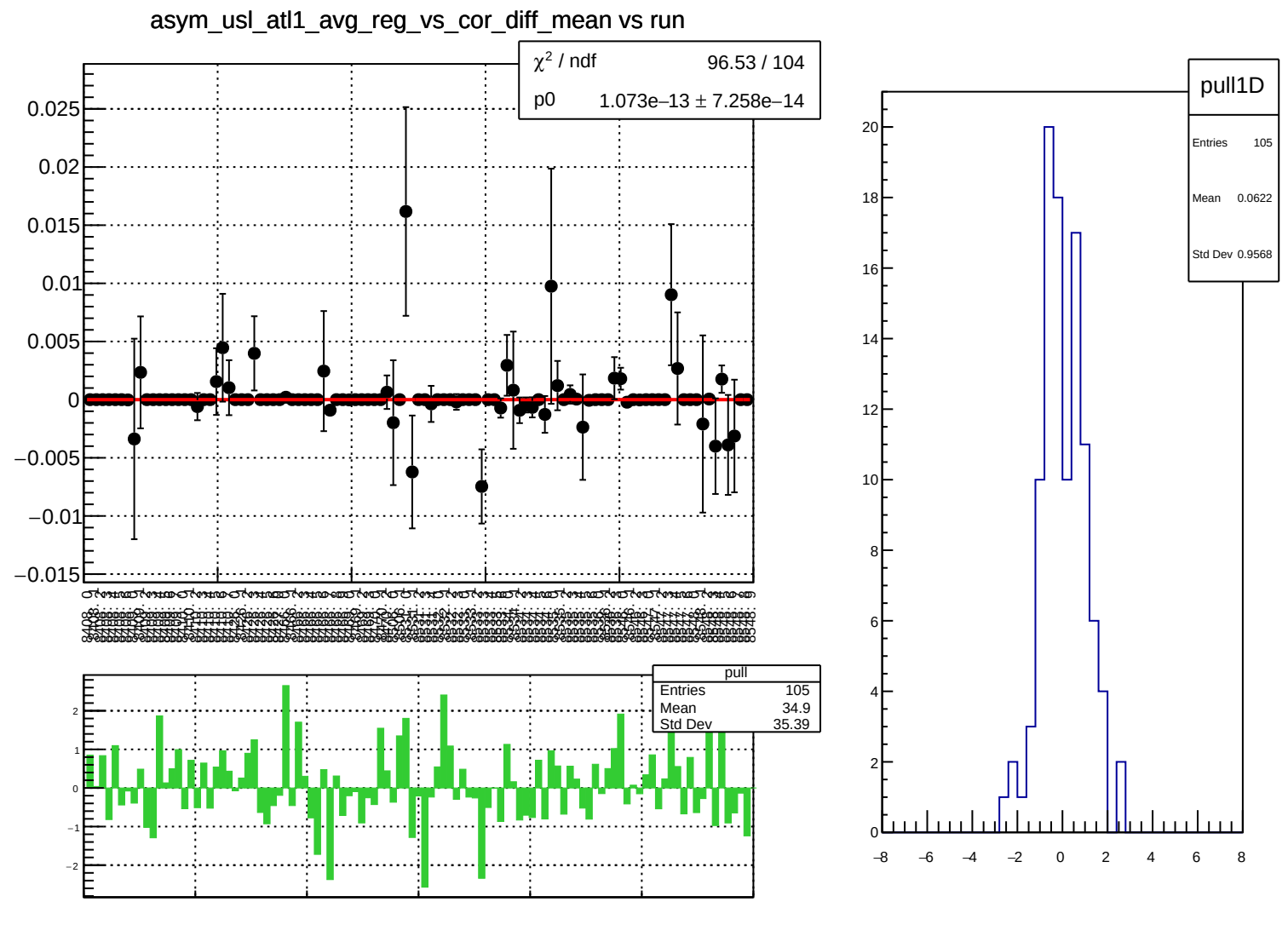
0
2
4
6
8

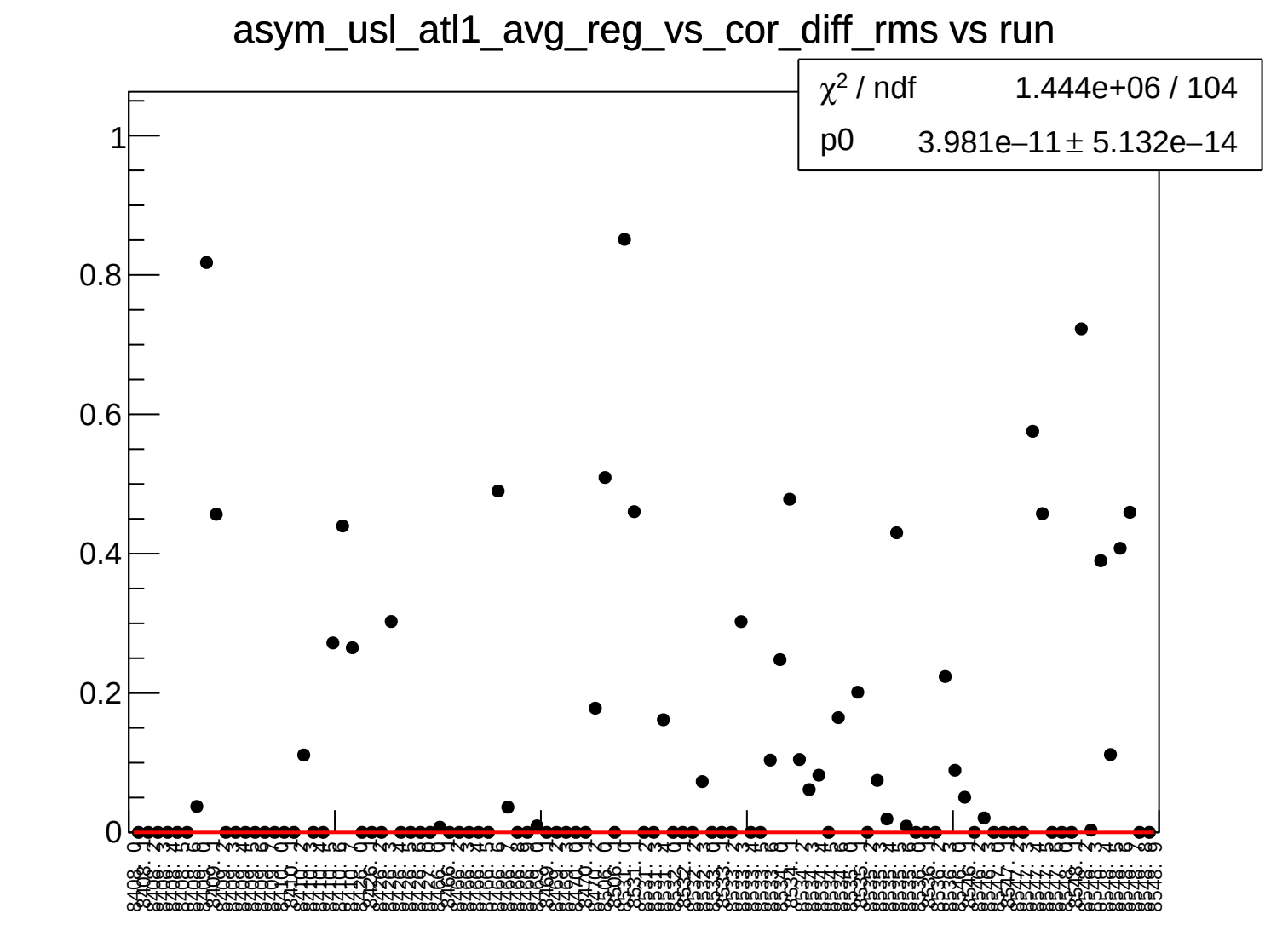

asym_usl_atl1_avg_eigen_dit_correction_rms vs run
χ² / ndf 6.64e+04 / 104
p0 625.6 ± 0.4446
1000
900
800
700
600
500

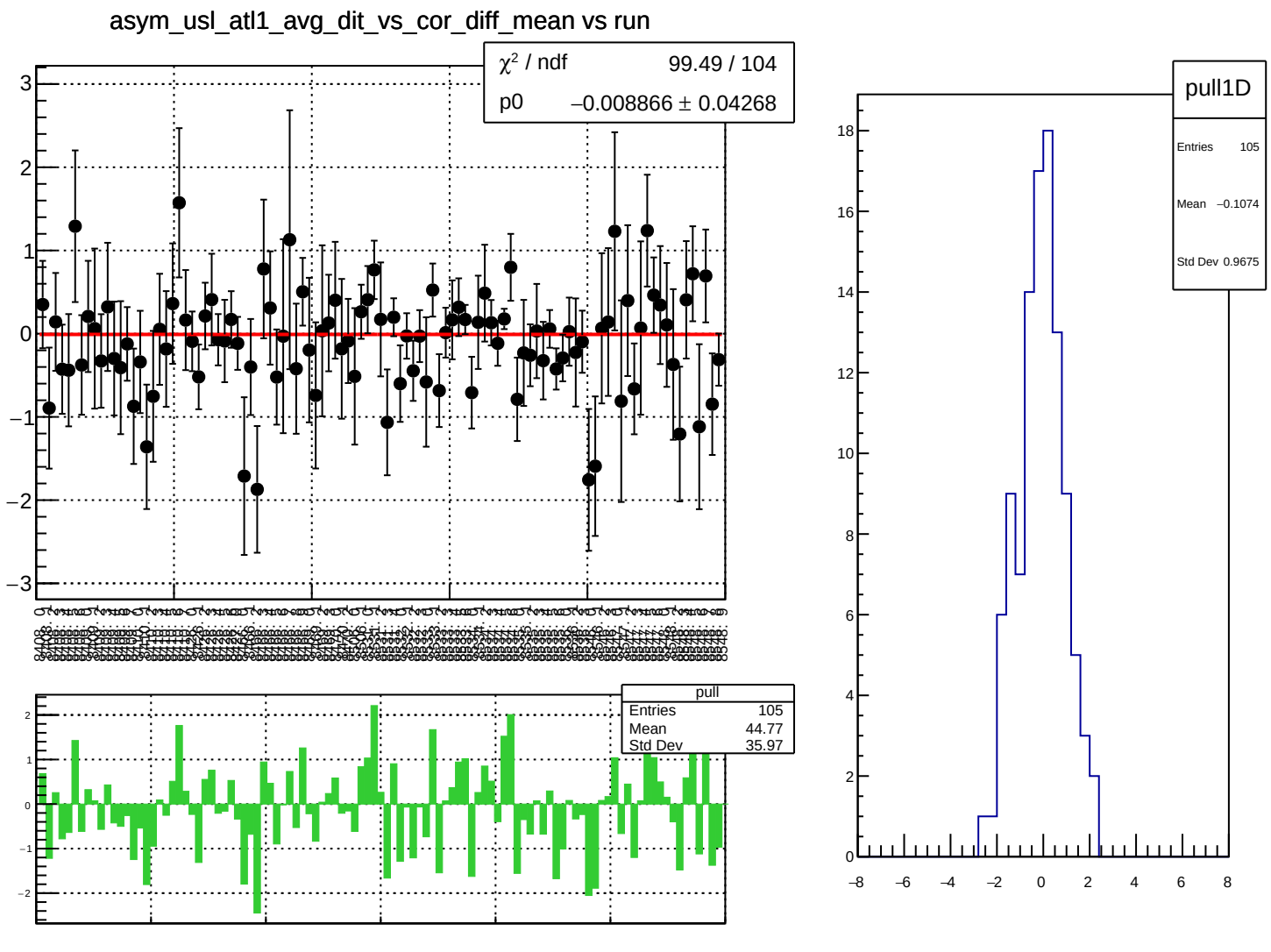

asym_usl_atl1_avg_mean vs run
χ² / ndf 113.3 / 104
p0 6119 ± 1593
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean 1372
Std Dev 0
3
2
1
0
−1
−2
−3

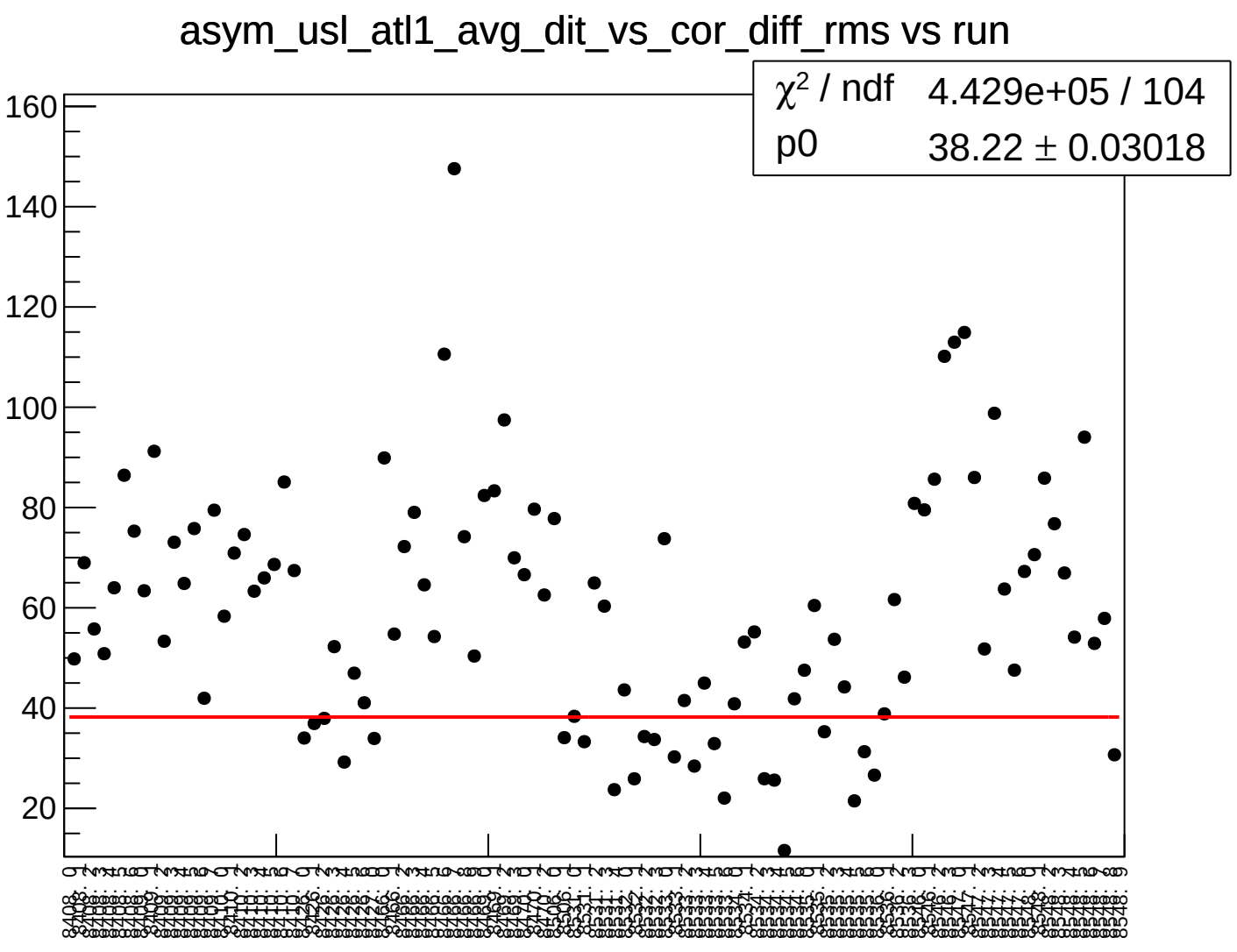

pull1D
Entries 105
Mean 0.002197
Std Dev 1.039
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

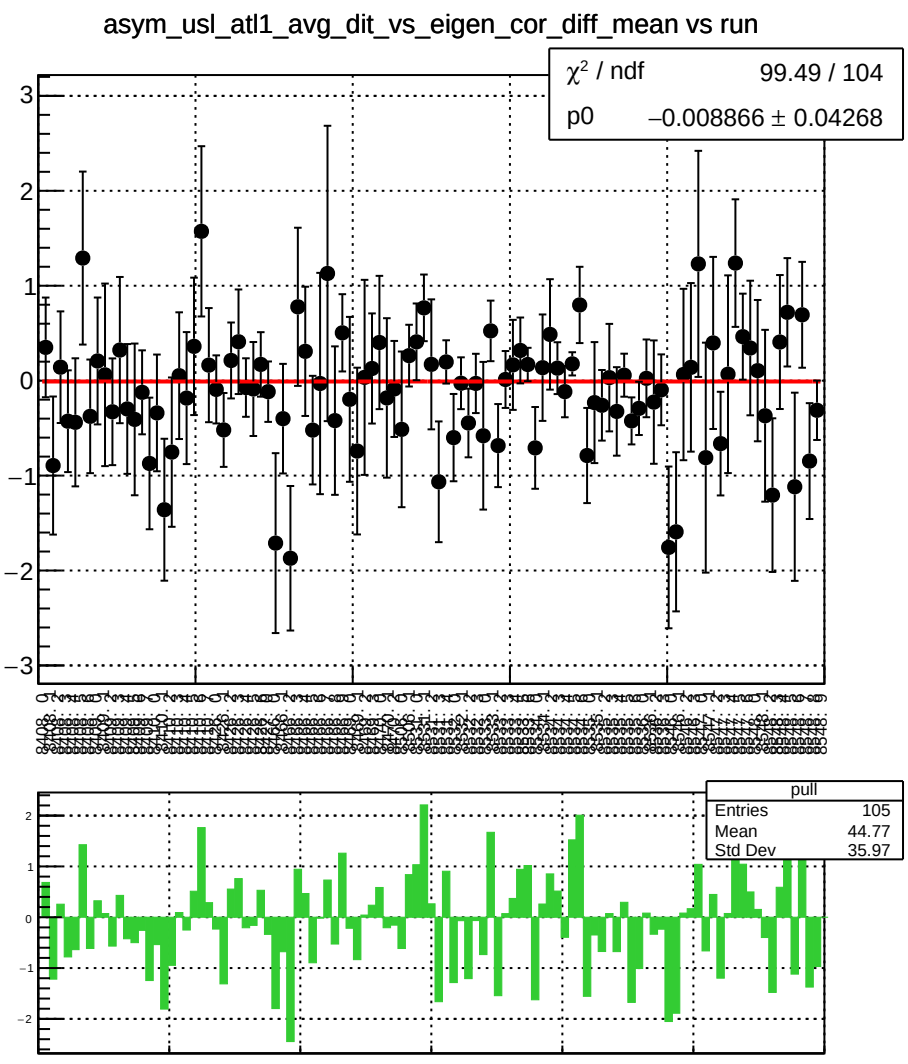

asym_usl_atl1_avg_rms vs run
χ^2 / ndf 6443 / 104
p0 1608 ± 1.126
1850
1800
1750
1700
1650
1600
1550
1500

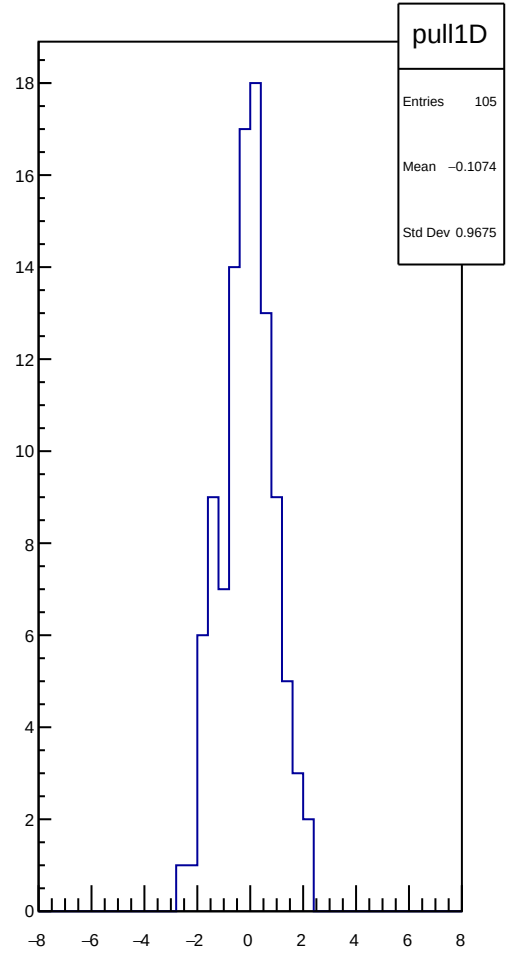

asym_usl_atl1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 96.53 / 104
p0 1.073e−13 ± 7.258e−14
0.025
0.02
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 105
Mean 34.9
Std Dev 35.39
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.0622
Std Dev 0.9568
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

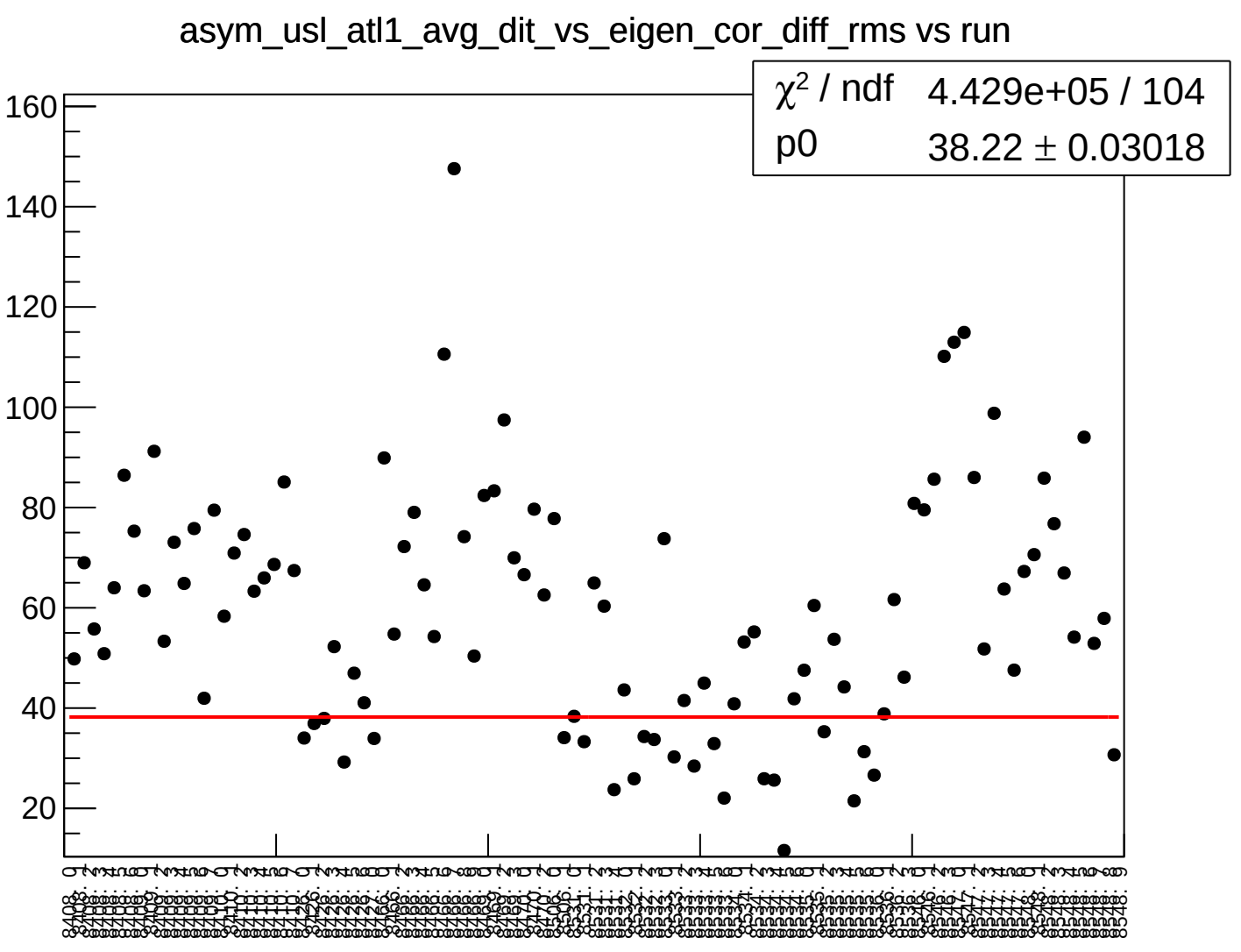

asym_usl_atl1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.444e+06 / 104
p0 3.981e−11 ± 5.132e−14
1
0.8
0.6
0.4
0.2
0

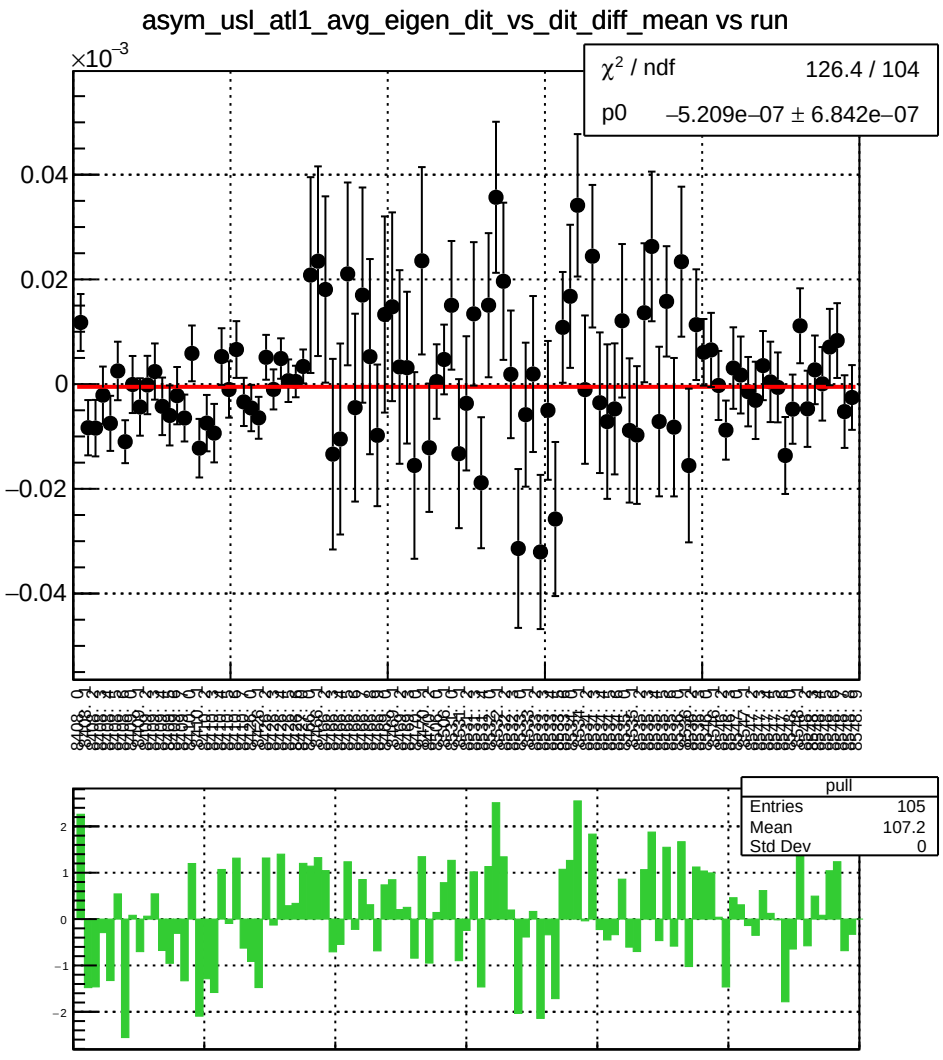

asym_usl_atl1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 99.49 / 104
p0 −0.008866 ± 0.04268
pull
Entries 105
Mean 44.77
Std Dev 35.97
pull1D
Entries 105
Mean −0.1074
Std Dev 0.9675

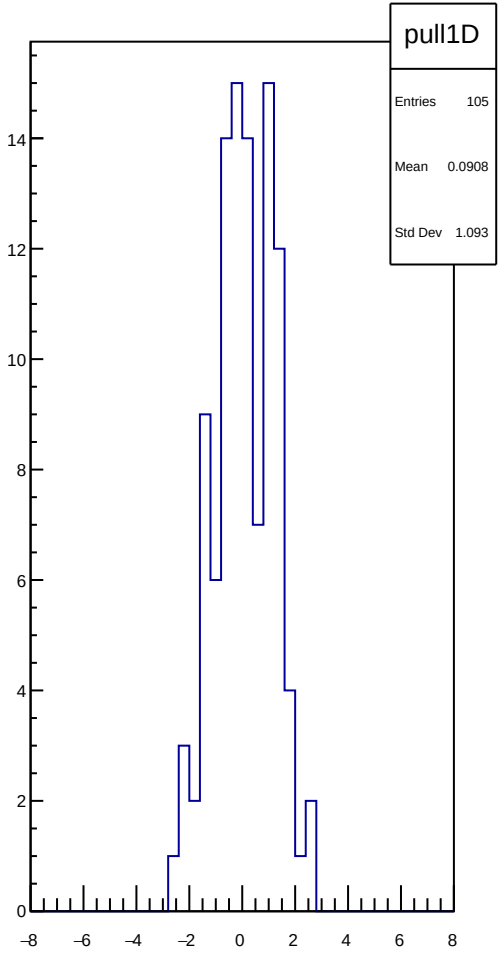

asym_usl_atl1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.429e+05 / 104
p0 38.22 ± 0.03018
160
140
120
100
80
60
40
20

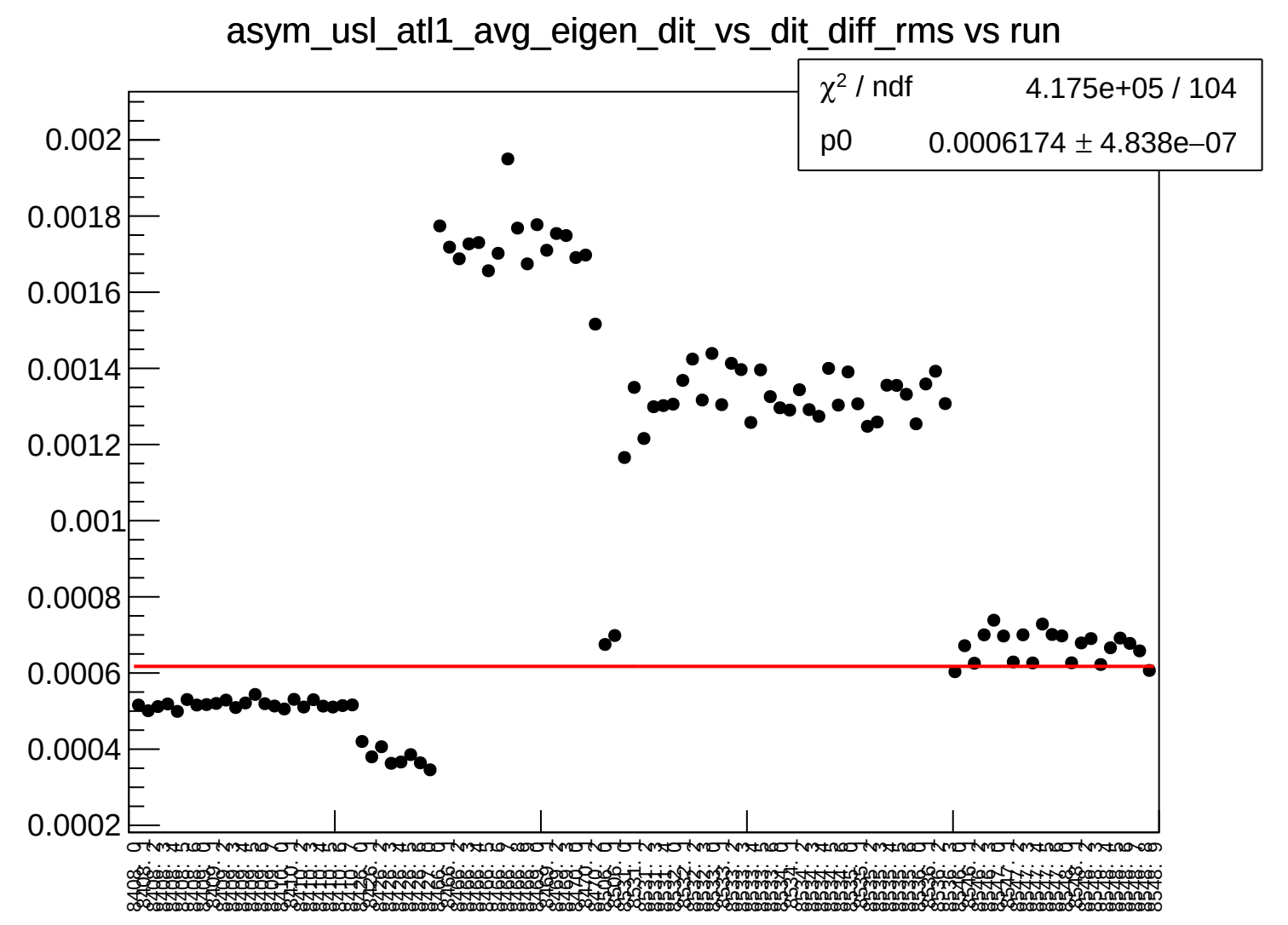

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.49 / 104
p0 −0.008866 ± 0.04268
pull
Entries 105
Mean 44.77
Std Dev 35.97

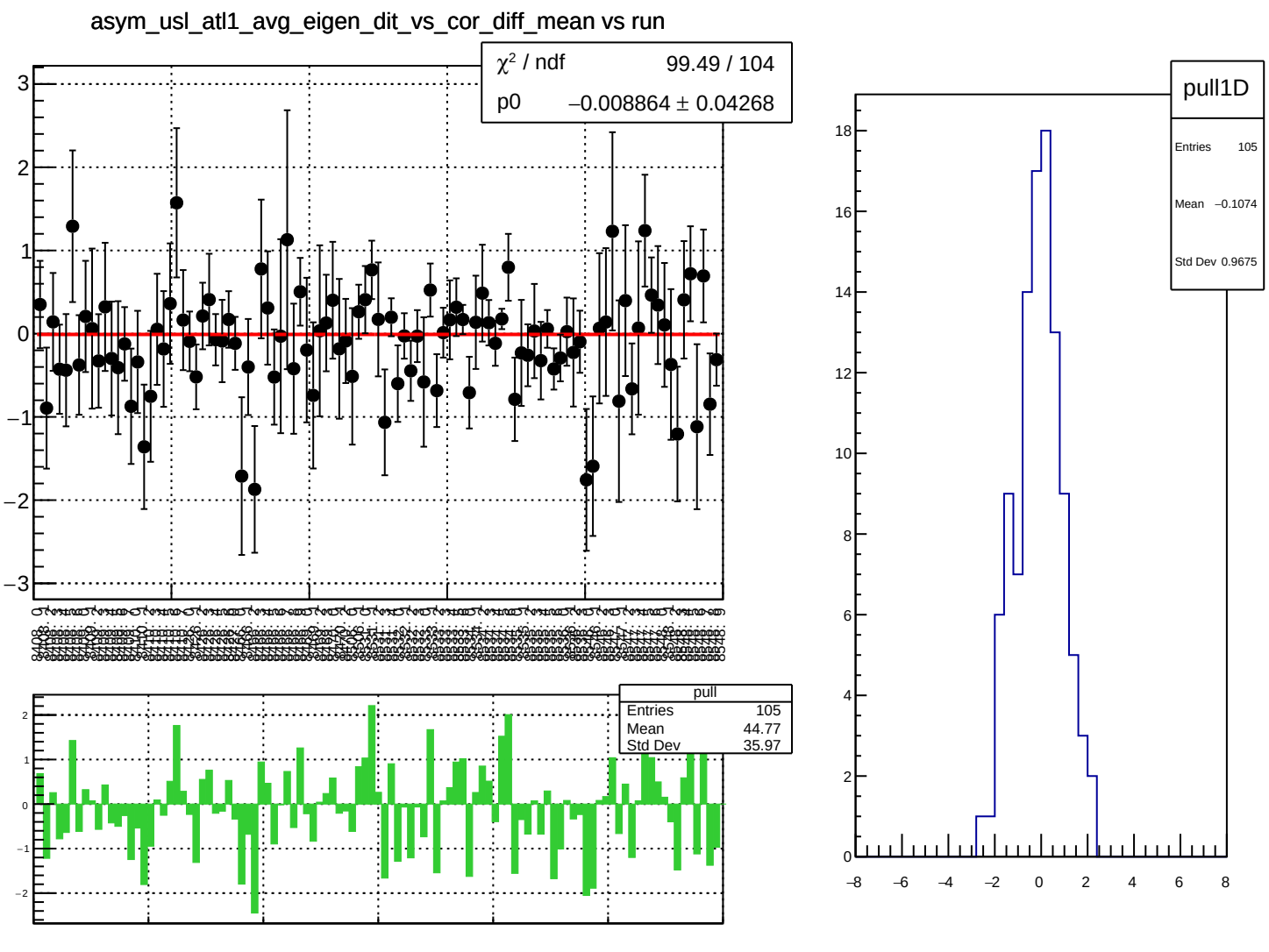

pull1D
Entries 105
Mean −0.1074
Std Dev 0.9675

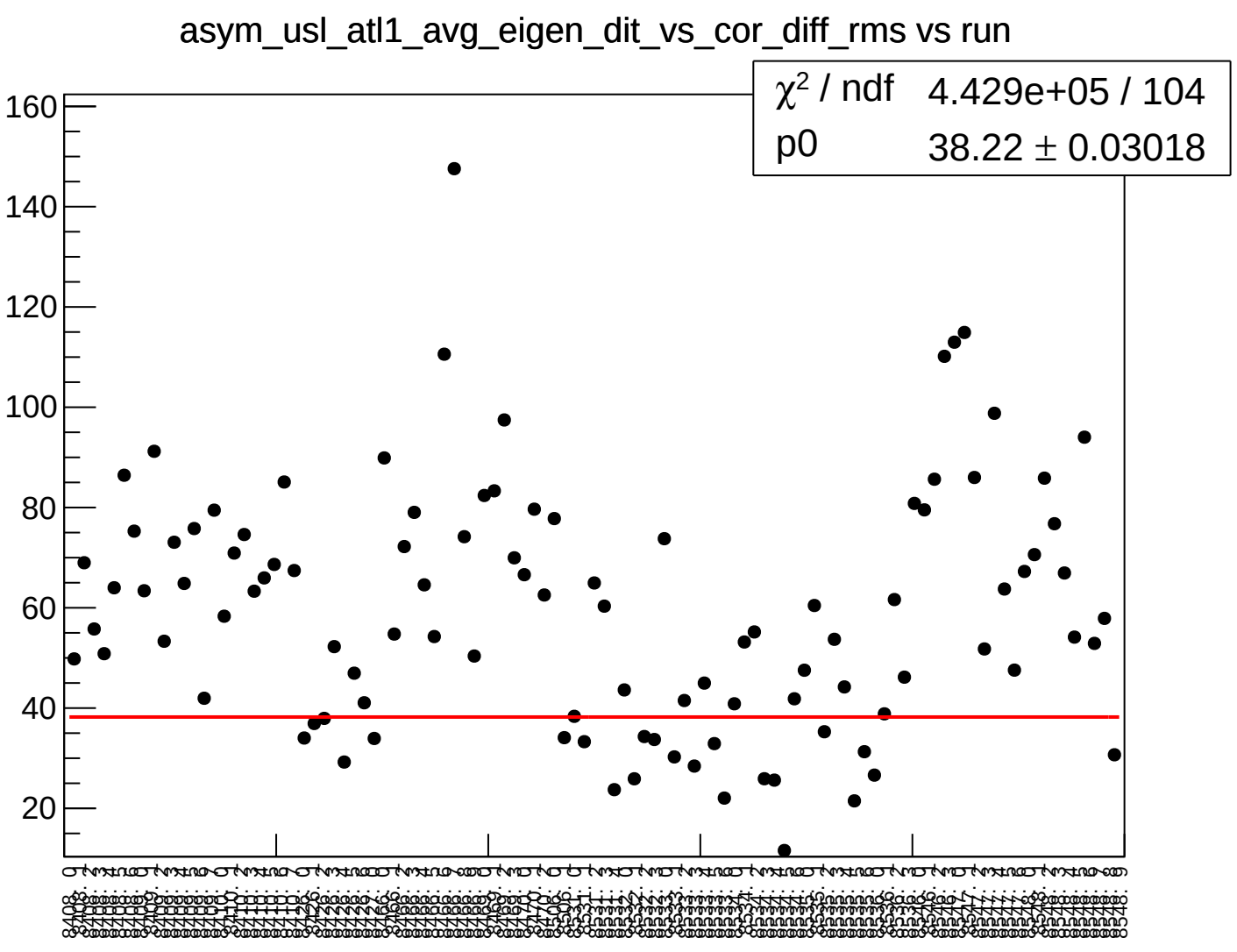

asym_usl_atl1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.429e+05 / 104
p0 38.22 ± 0.03018
160
140
120
100
80
60
40
20

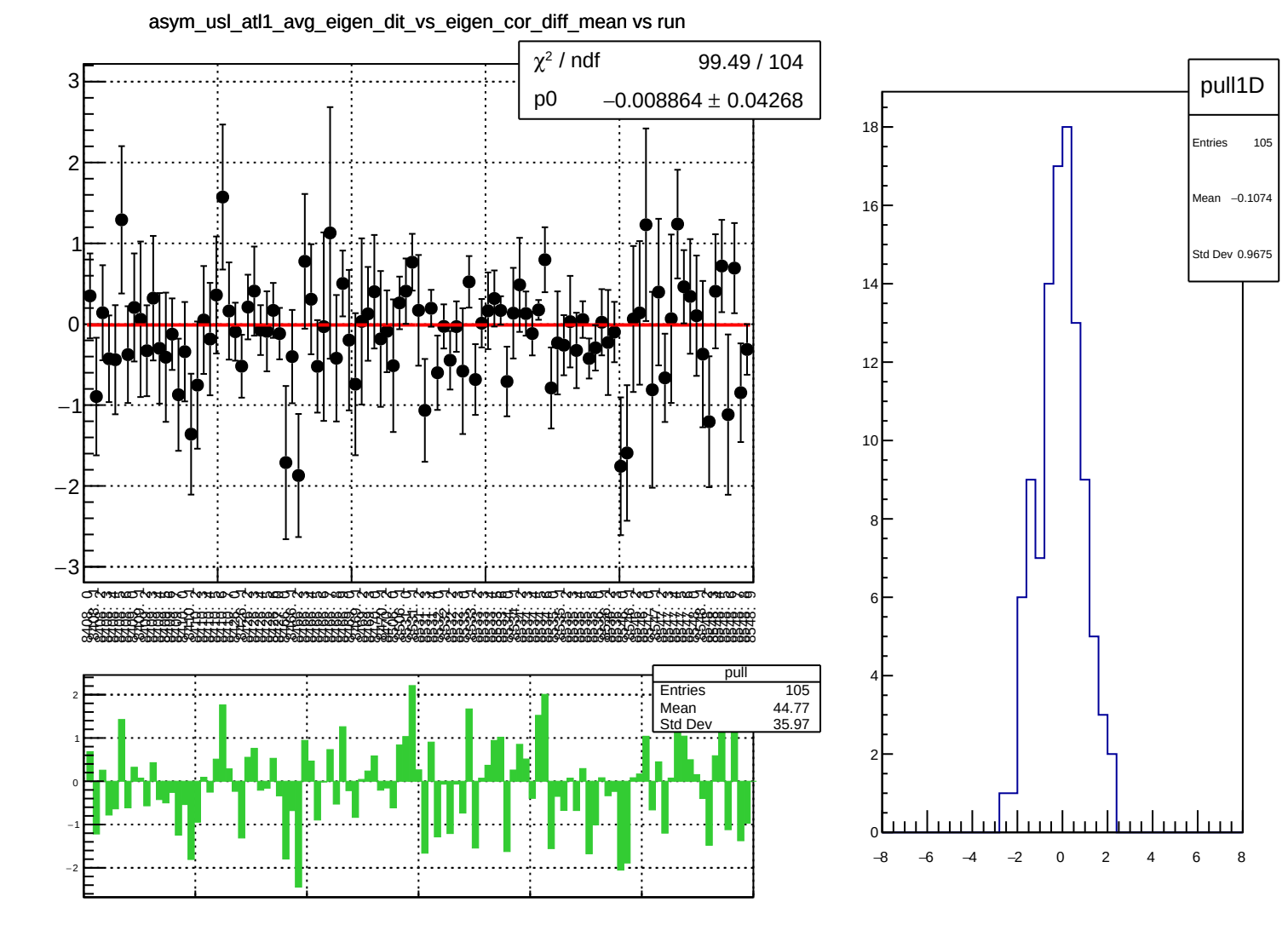

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 126.4 / 104
p0 −5.209e−07 ± 6.842e−07
0.04
0.02
0
−0.02
−0.04
pull
Entries 105
Mean 107.2
Std Dev 0
2
1
0
−1
−2

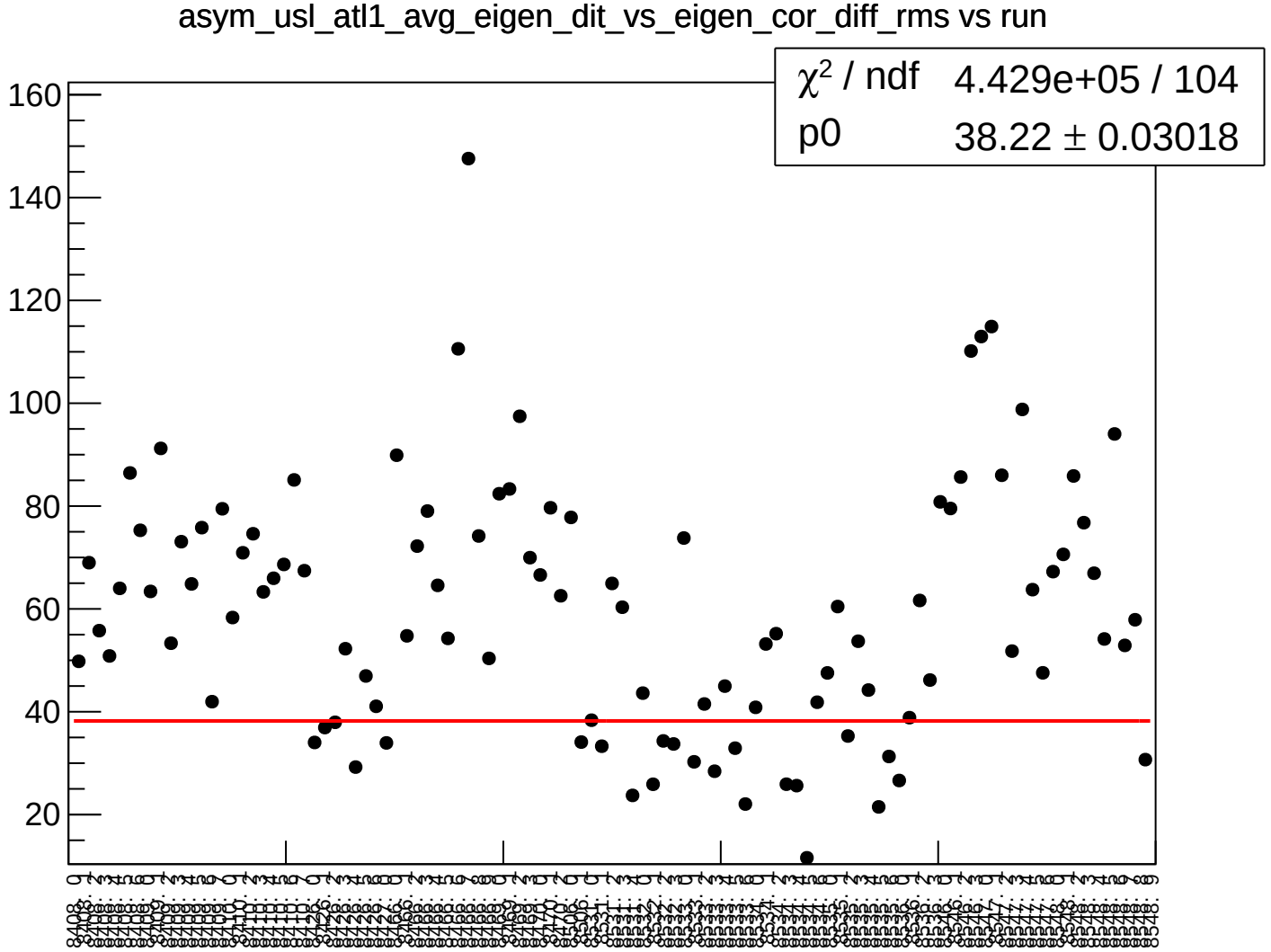

pull1D
Entries 105
Mean 0.0908
Std Dev 1.093
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

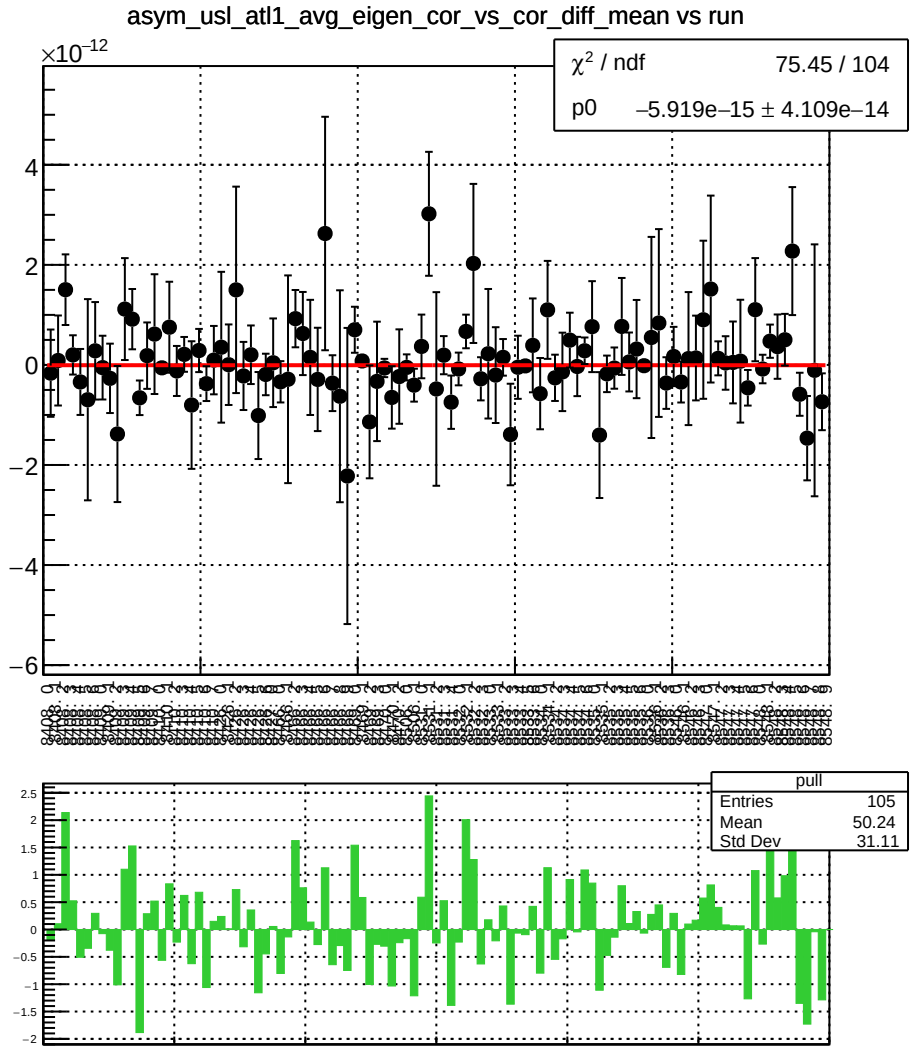

asym_usl_atl1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.175e+05 / 104
p0 0.0006174 ± 4.838e−07
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002

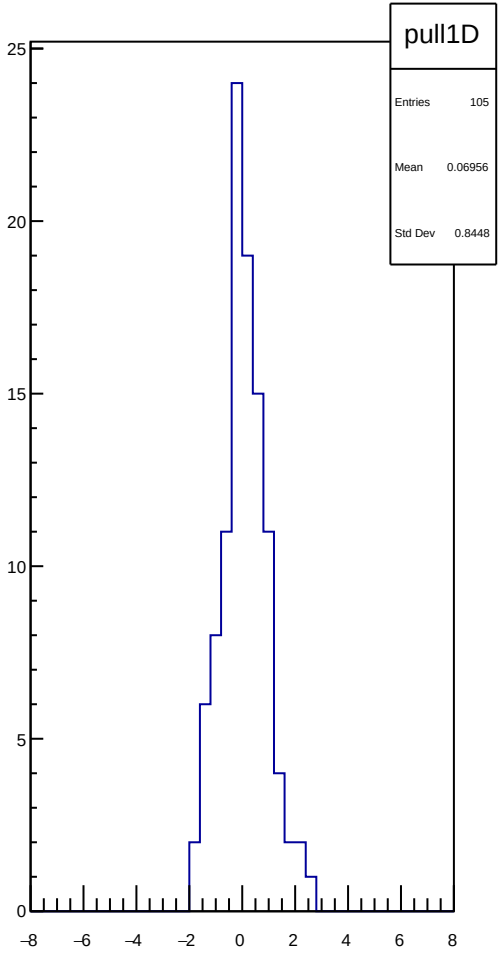

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 99.49 / 104
p0 −0.008864 ± 0.04268
pull
Entries 105
Mean 44.77
Std Dev 35.97
pull1D
Entries 105
Mean −0.1074
Std Dev 0.9675

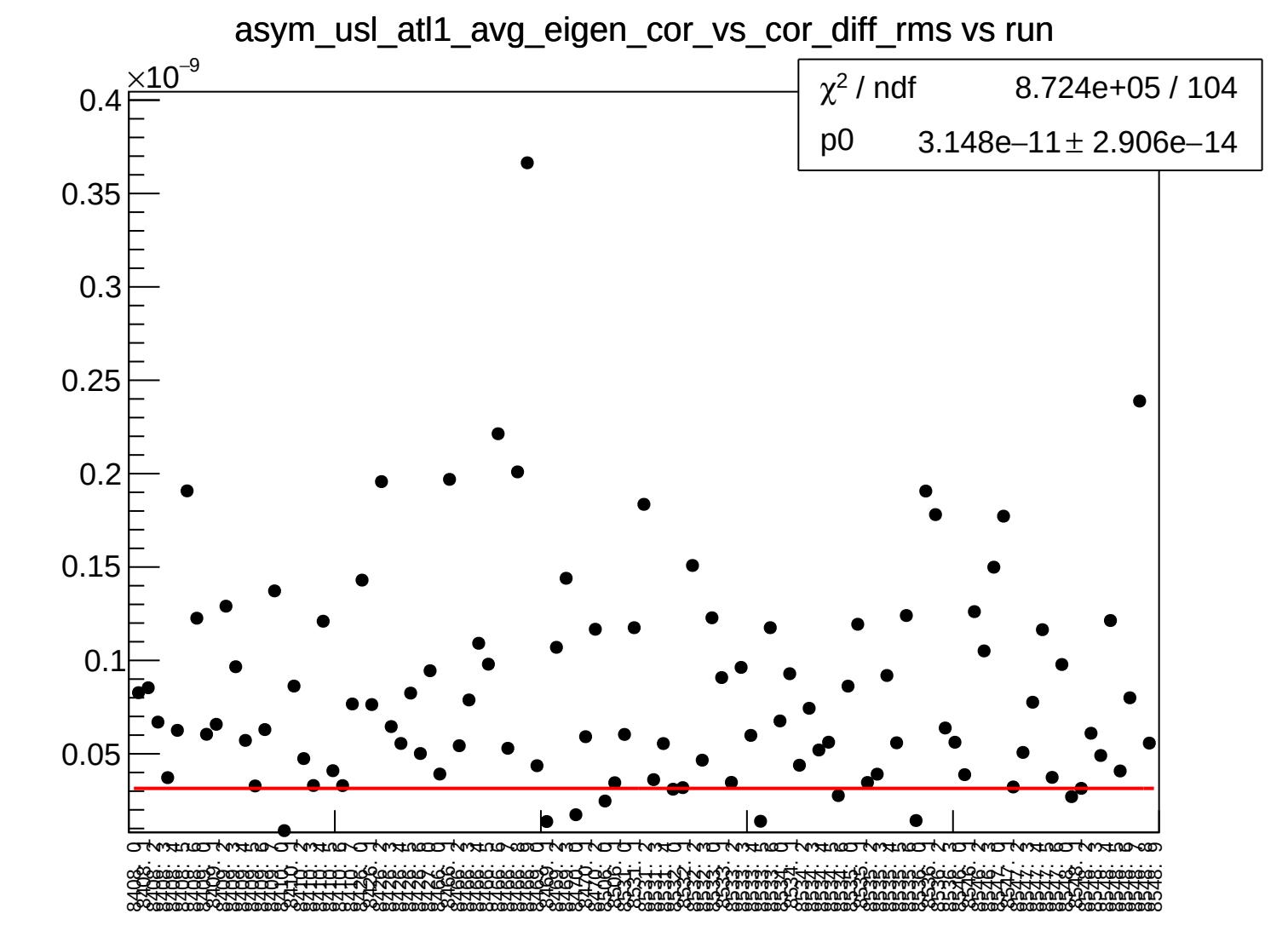

asym_usl_atl1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.429e+05 / 104
p0 38.22 ± 0.03018
160
140
120
100
80
60
40
20

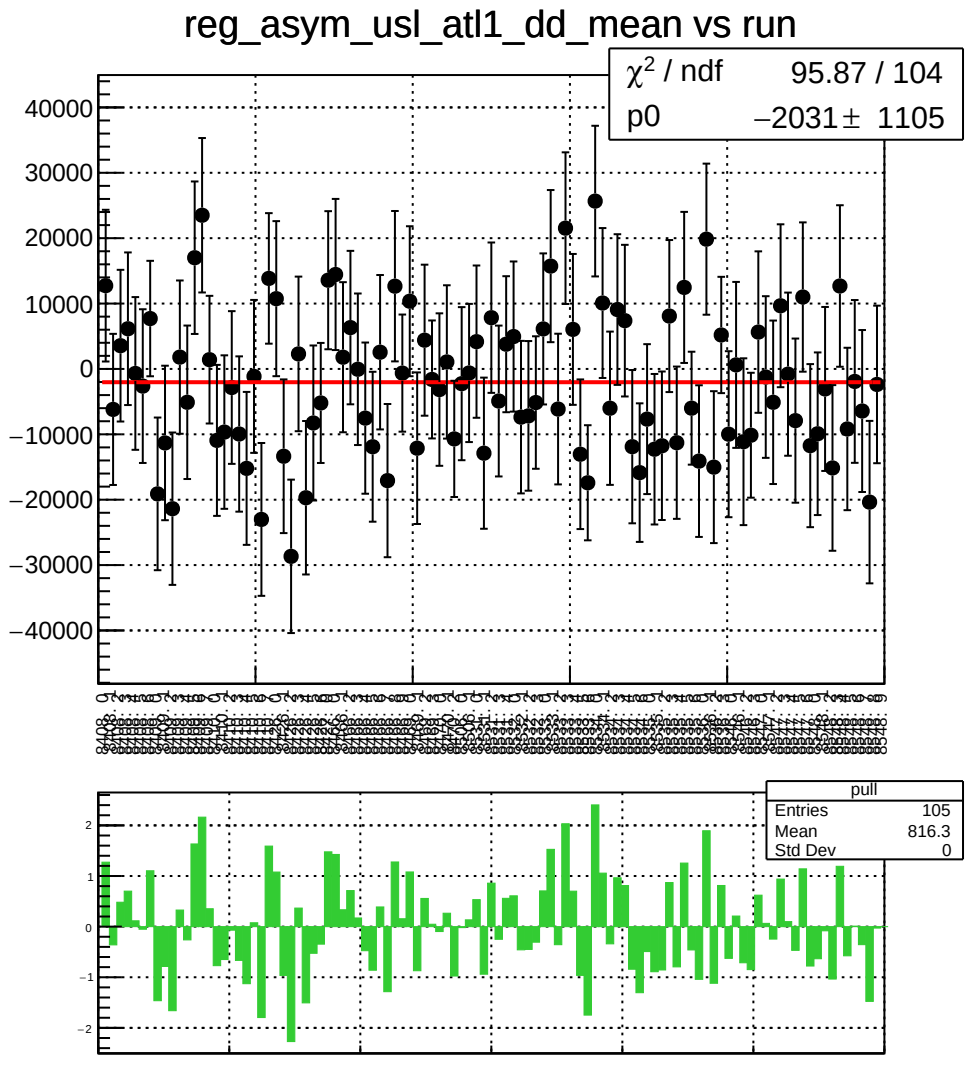

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.49 / 104
p0 −0.008864 ± 0.04268
pull
Entries 105
Mean 44.77
Std Dev 35.97
pull1D
Entries 105
Mean −0.1074
Std Dev 0.9675

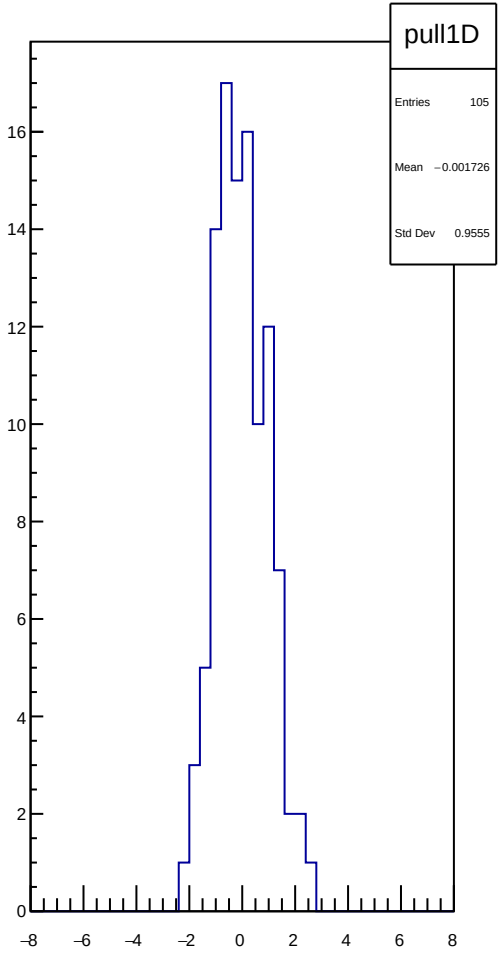

asym_usl_atl1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.429e+05 / 104
p0 38.22 ± 0.03018
160
140
120
100
80
60
40
20

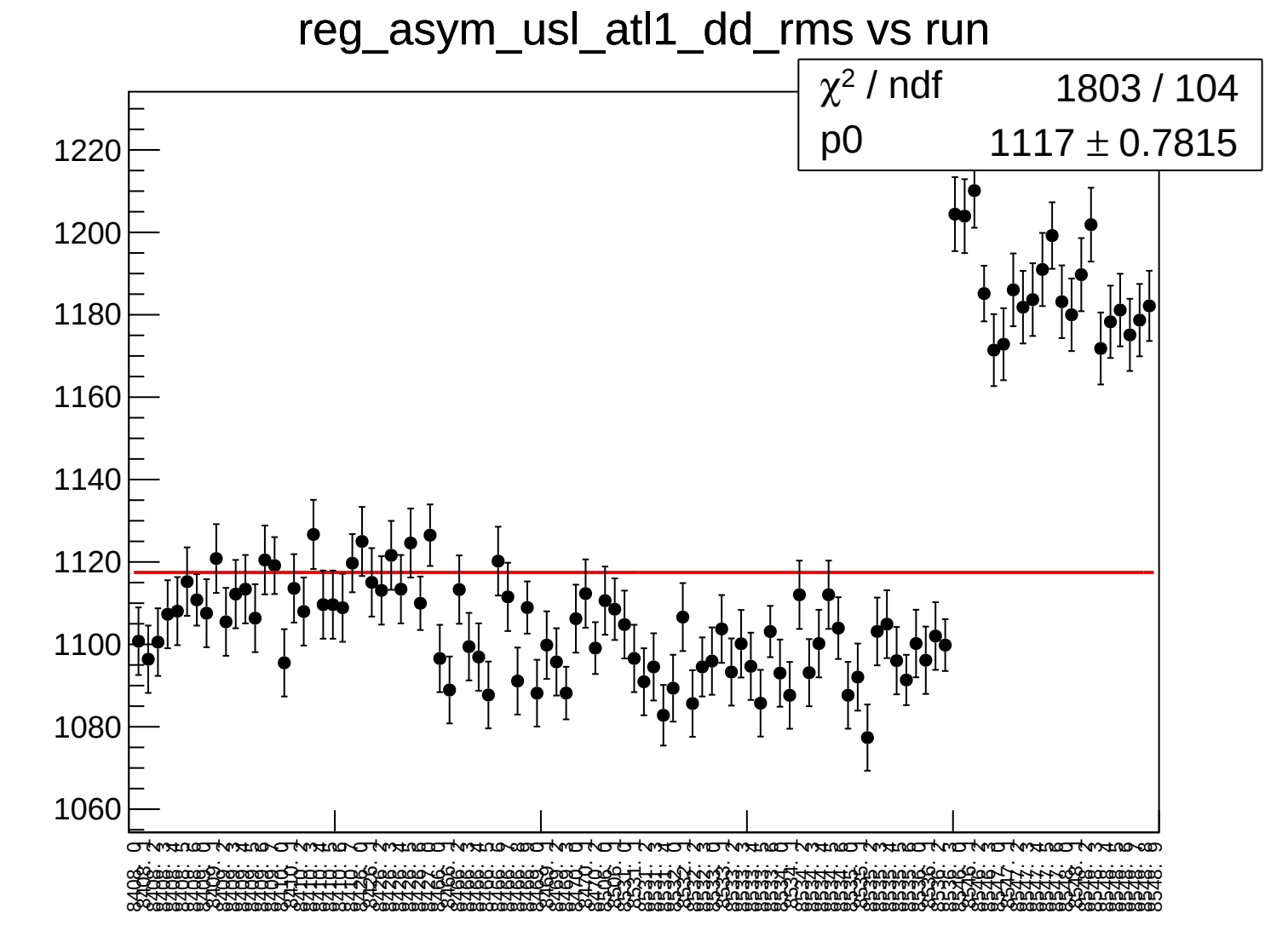

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 75.45 / 104
p0 −5.919e−15 ± 4.109e−14
pull
Entries 105
Mean 50.24
Std Dev 31.11

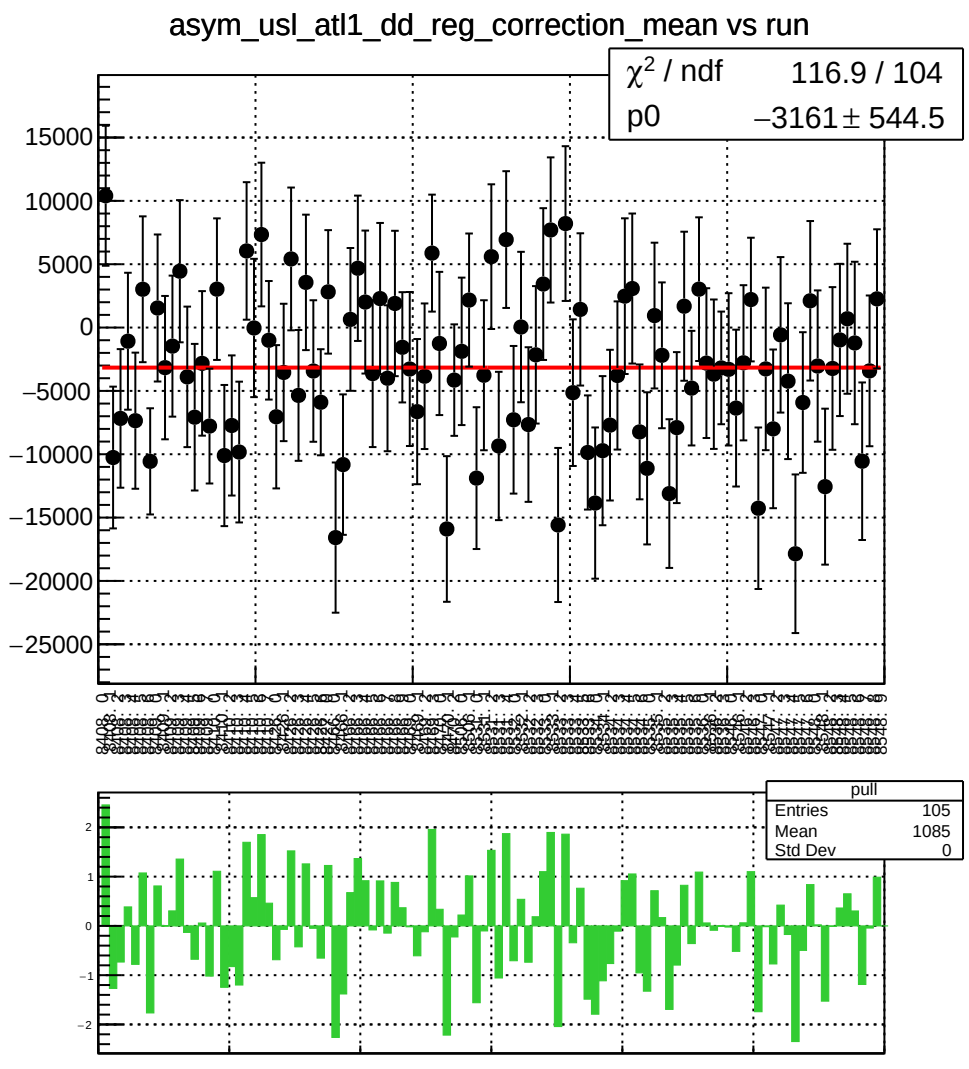

pull1D
Entries 105
Mean 0.06956
Std Dev 0.8448

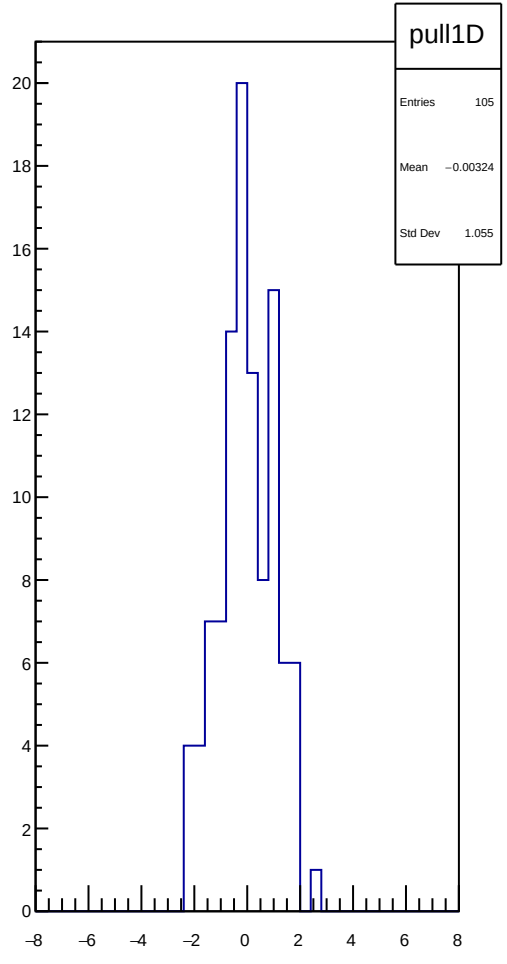

asym_usl_atl1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
χ² / ndf 8.724e+05 / 104
p0 3.148e−11 ± 2.906e−14

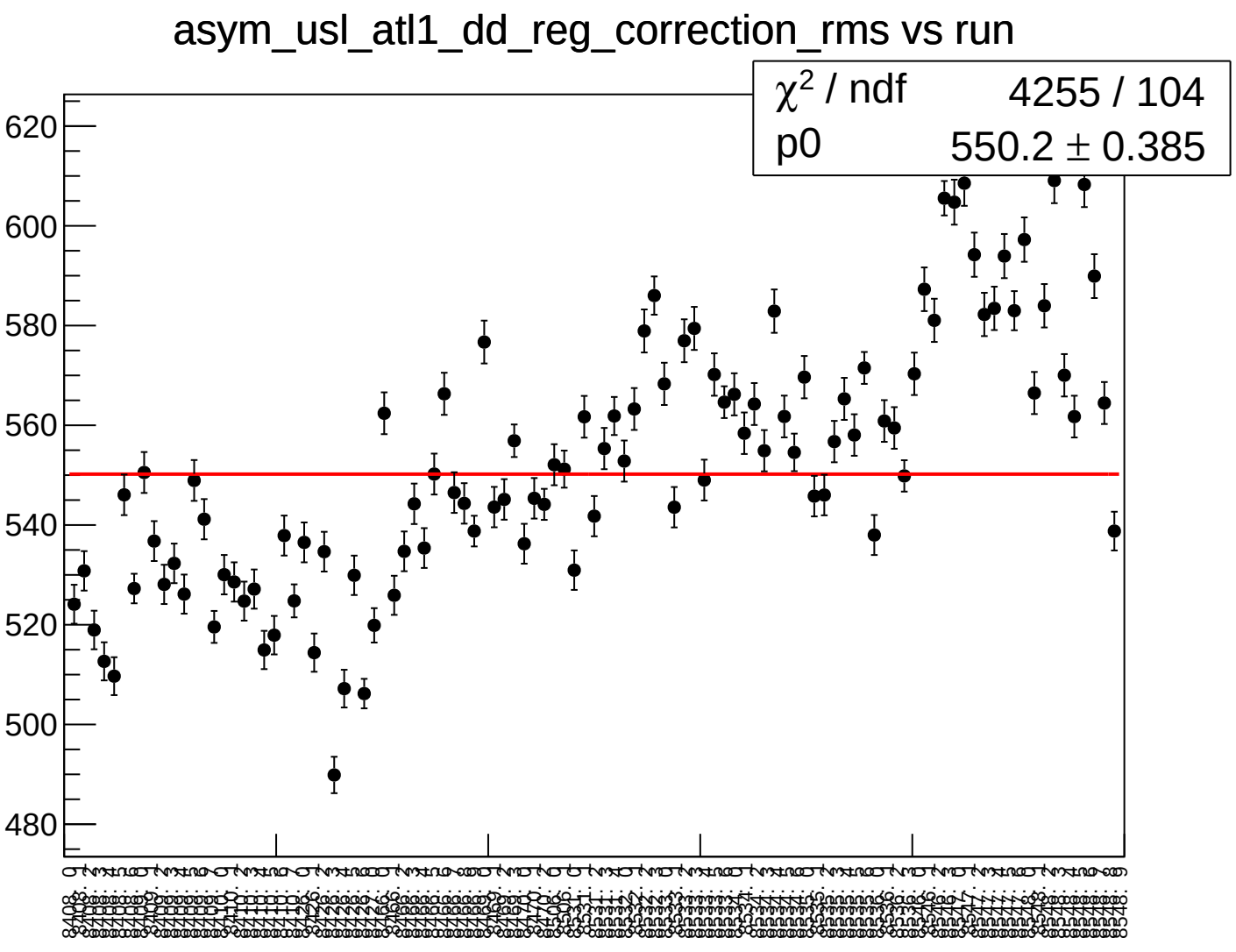

reg_asym_usl_atl1_dd_mean vs run
χ² / ndf 95.87 / 104
p0 −2031 ± 1105
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 105
Mean 816.3
Std Dev 0
2
1
0
−1
−2

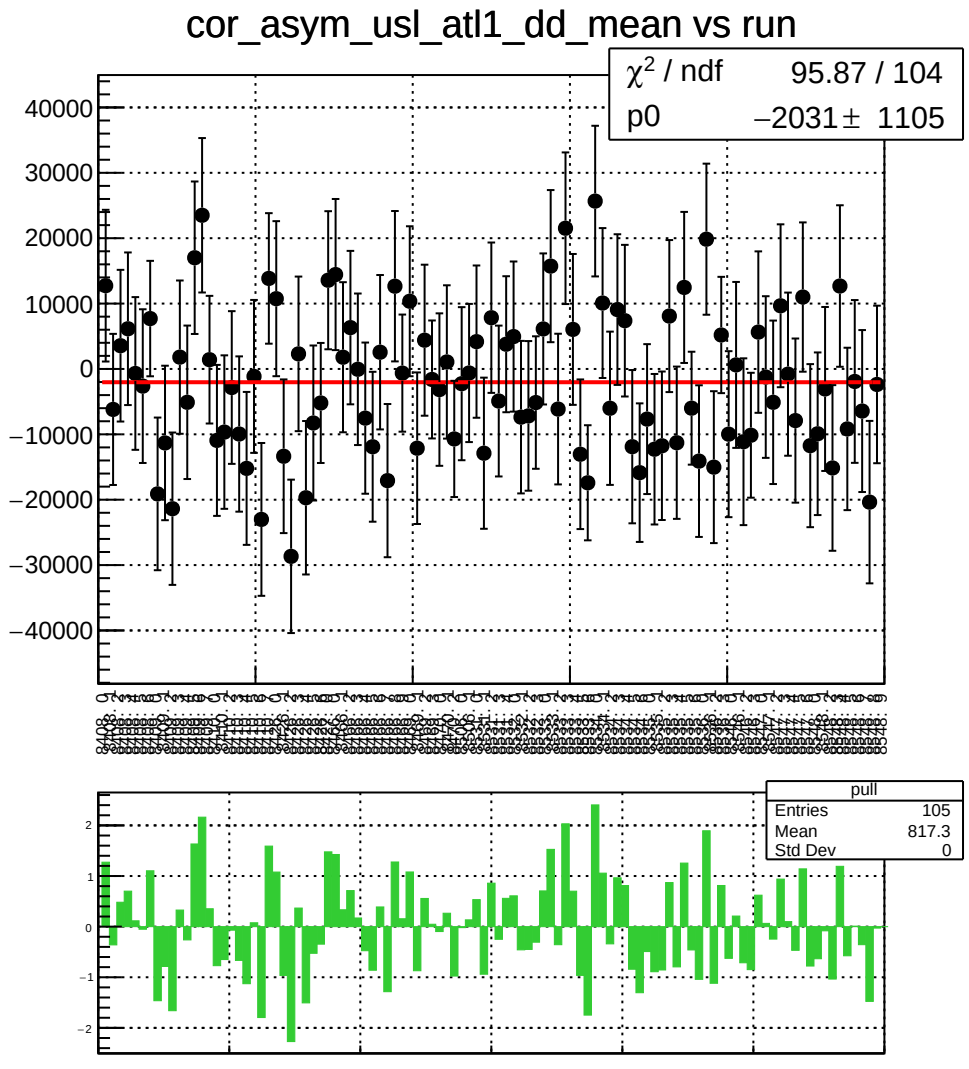

pull1D
Entries 105
Mean −0.001726
Std Dev 0.9555
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

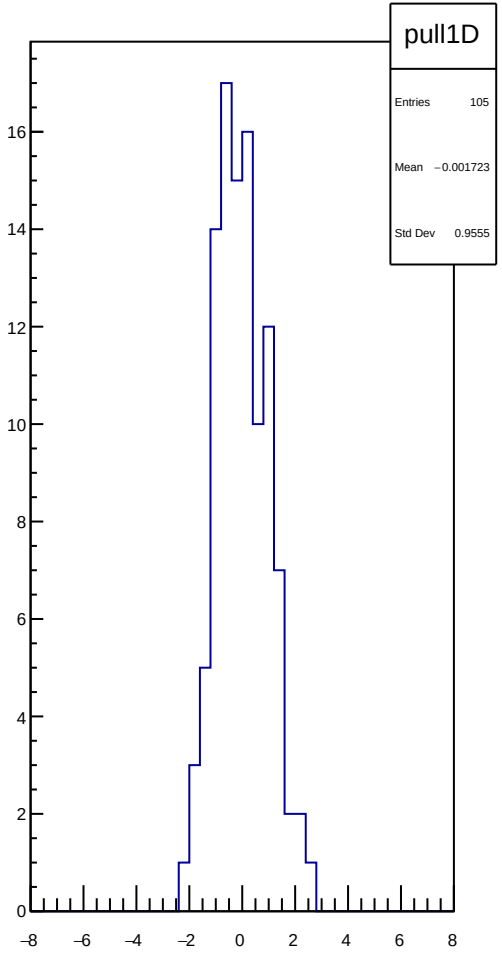

reg_asym_usl_atl1_dd_rms vs run
χ² / ndf 1803 / 104
p0 1117 ± 0.7815
1220
1200
1180
1160
1140
1120
1100
1080
1060

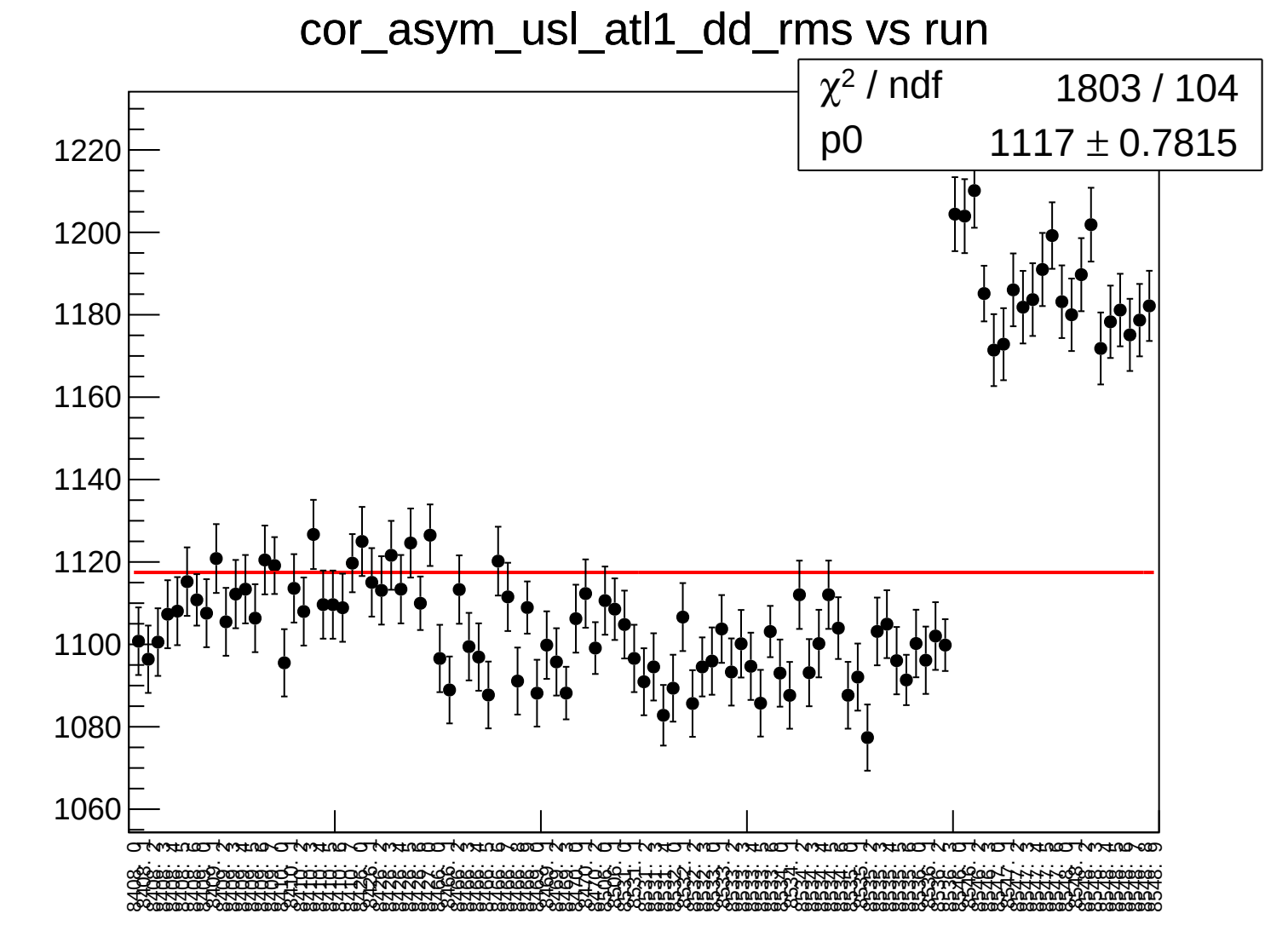

asym_usl_atl1_dd_reg_correction_mean vs run
χ² / ndf 116.9 / 104
p0 −3161 ± 544.5
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 105
Mean 1085
Std Dev 0
2
1
0
−1
−2

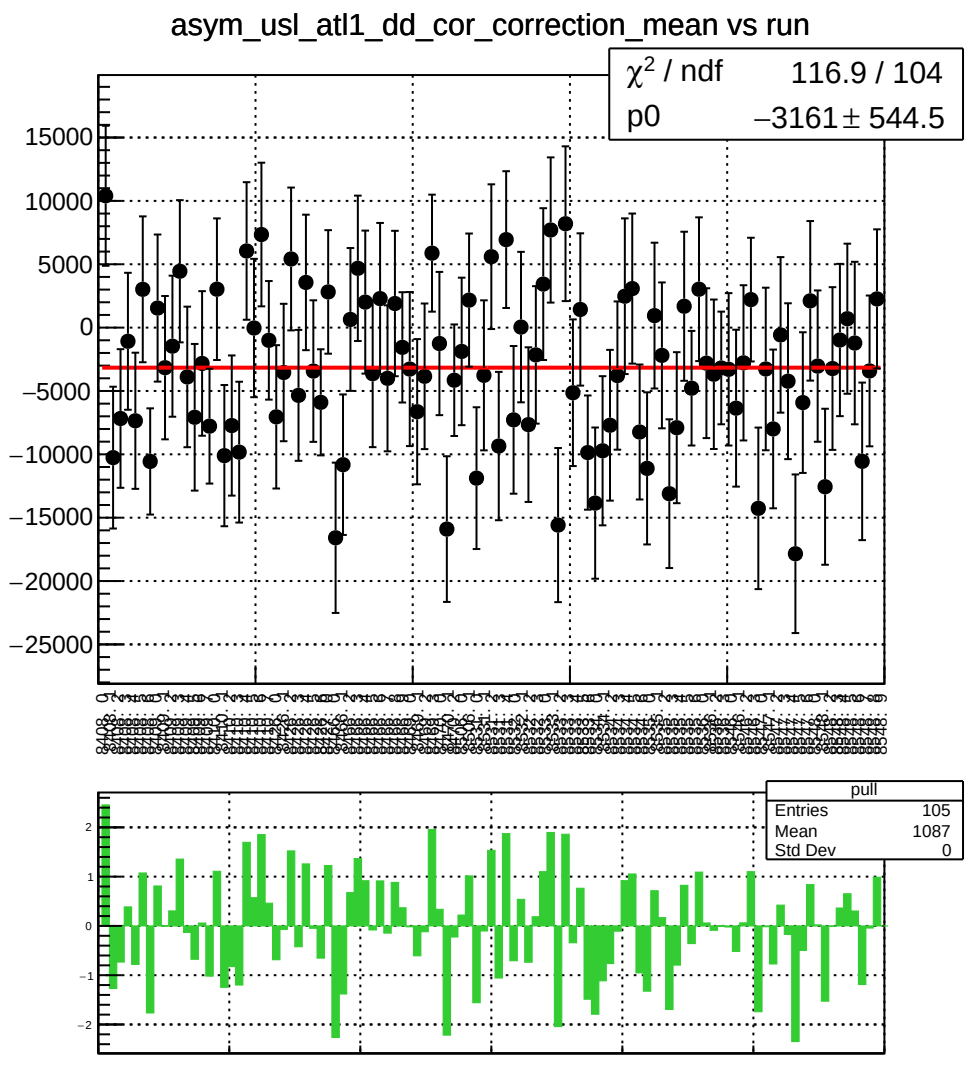

pull1D
Entries 105
Mean −0.00324
Std Dev 1.055
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

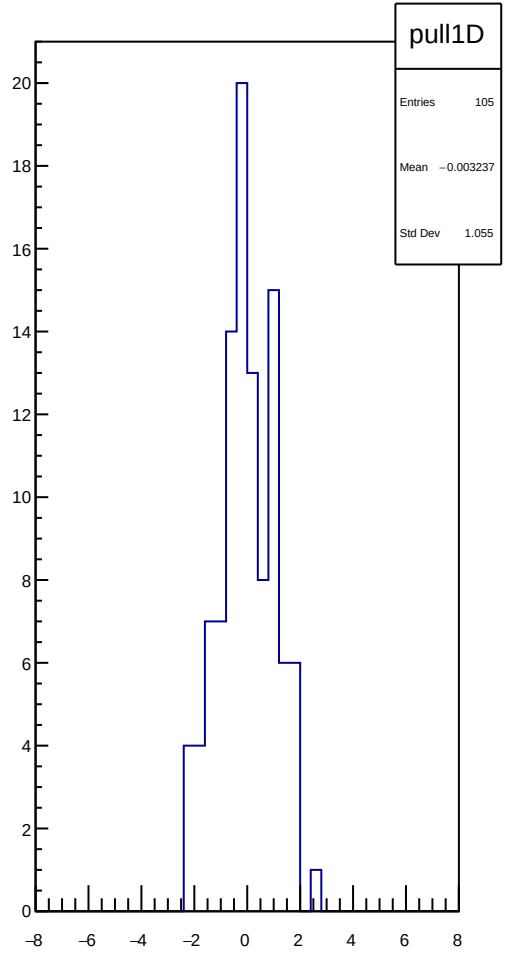

asym_usl_atl1_dd_reg_correction_rms vs run
χ² / ndf 4255 / 104
p0 550.2 ± 0.385
620
600
580
560
540
520
500
480

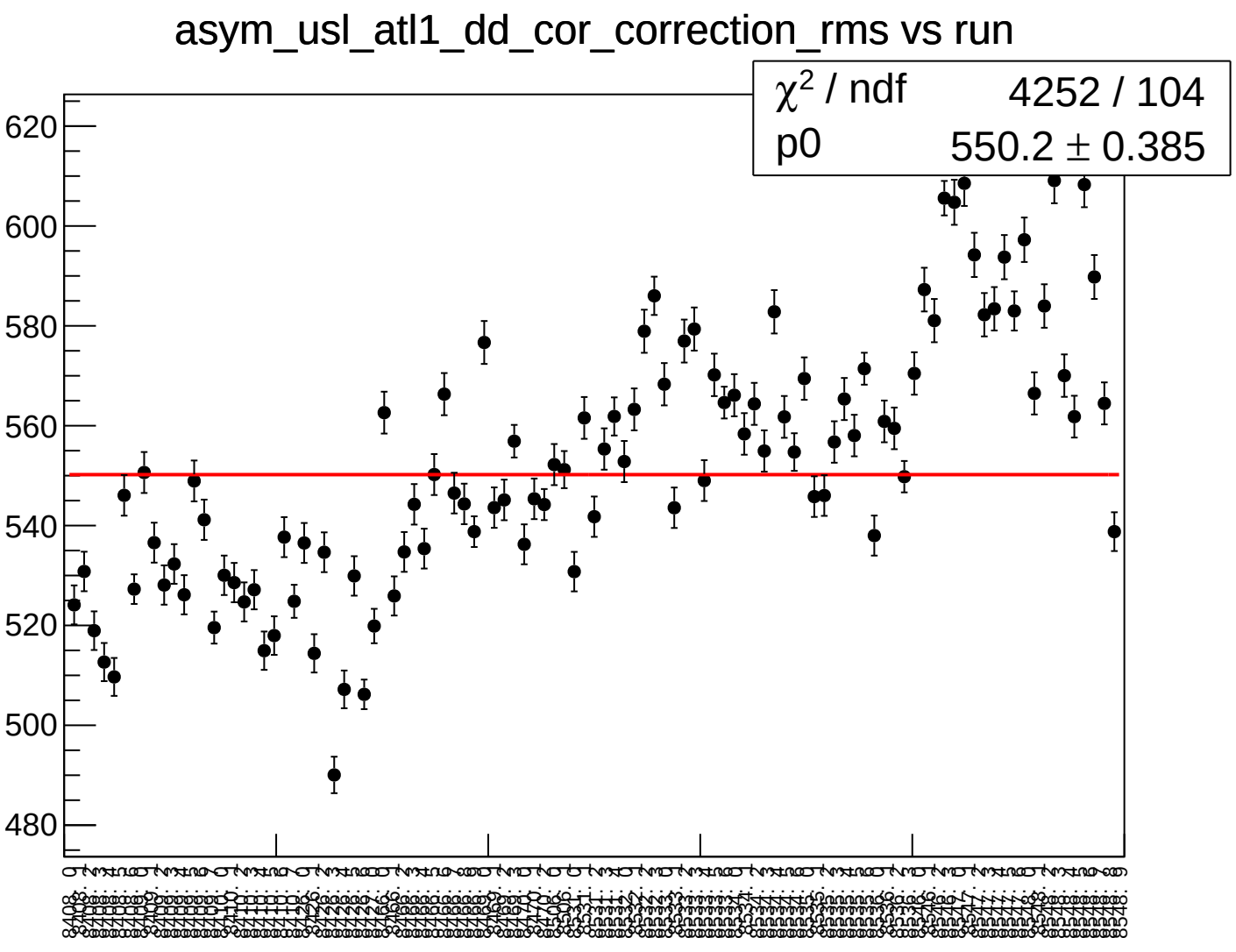

cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 95.87 / 104
p0 −2031 ± 1105
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 105
Mean 817.3
Std Dev 0
2
1
0
−1
−2

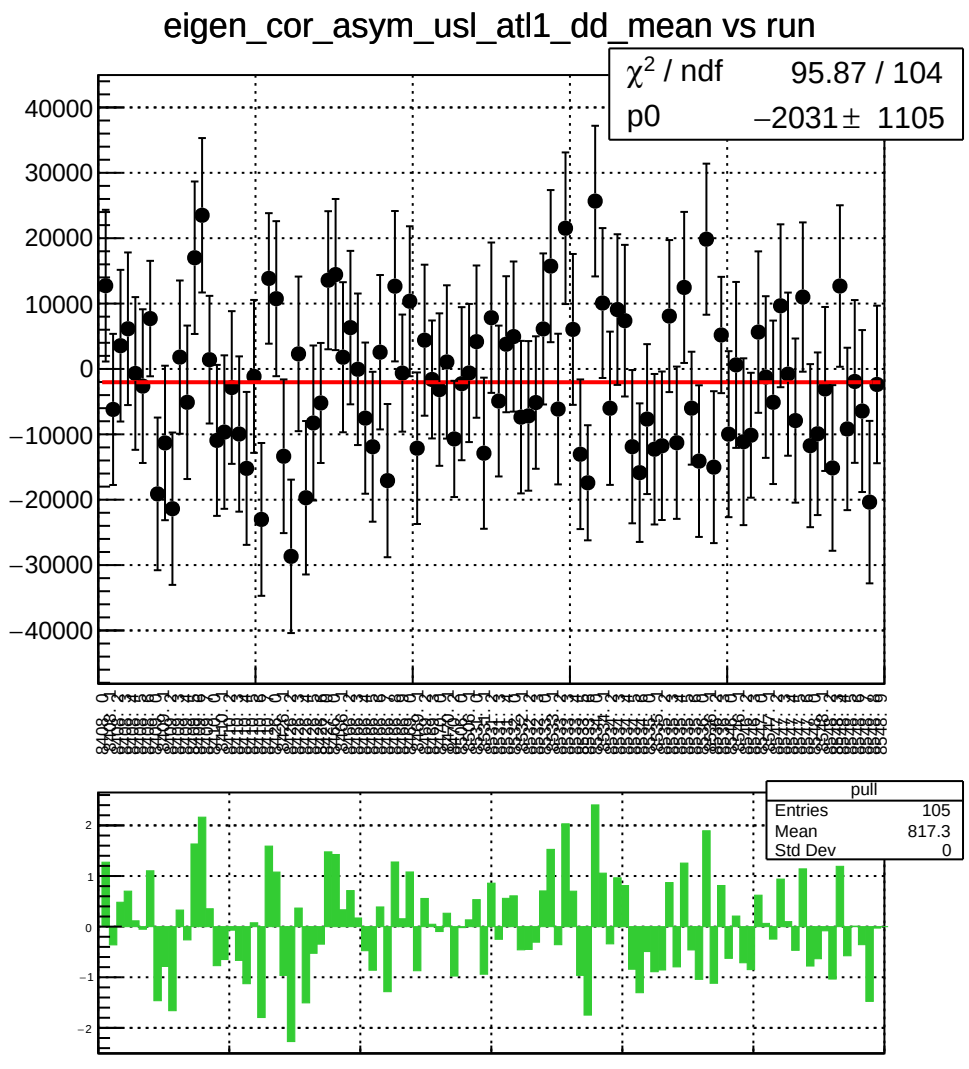

pull1D
Entries 105
Mean −0.001723
Std Dev 0.9555
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

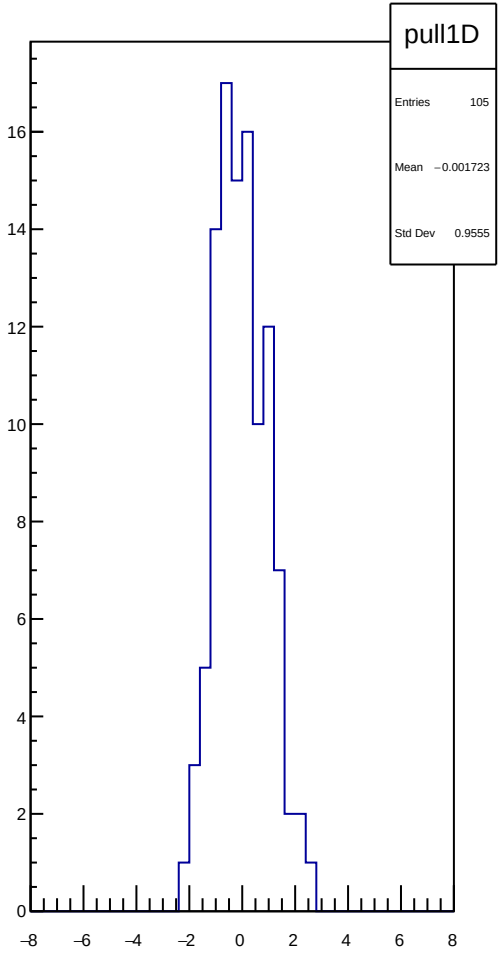

cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 1803 / 104
p0 1117 ± 0.7815
1220
1200
1180
1160
1140
1120
1100
1080
1060

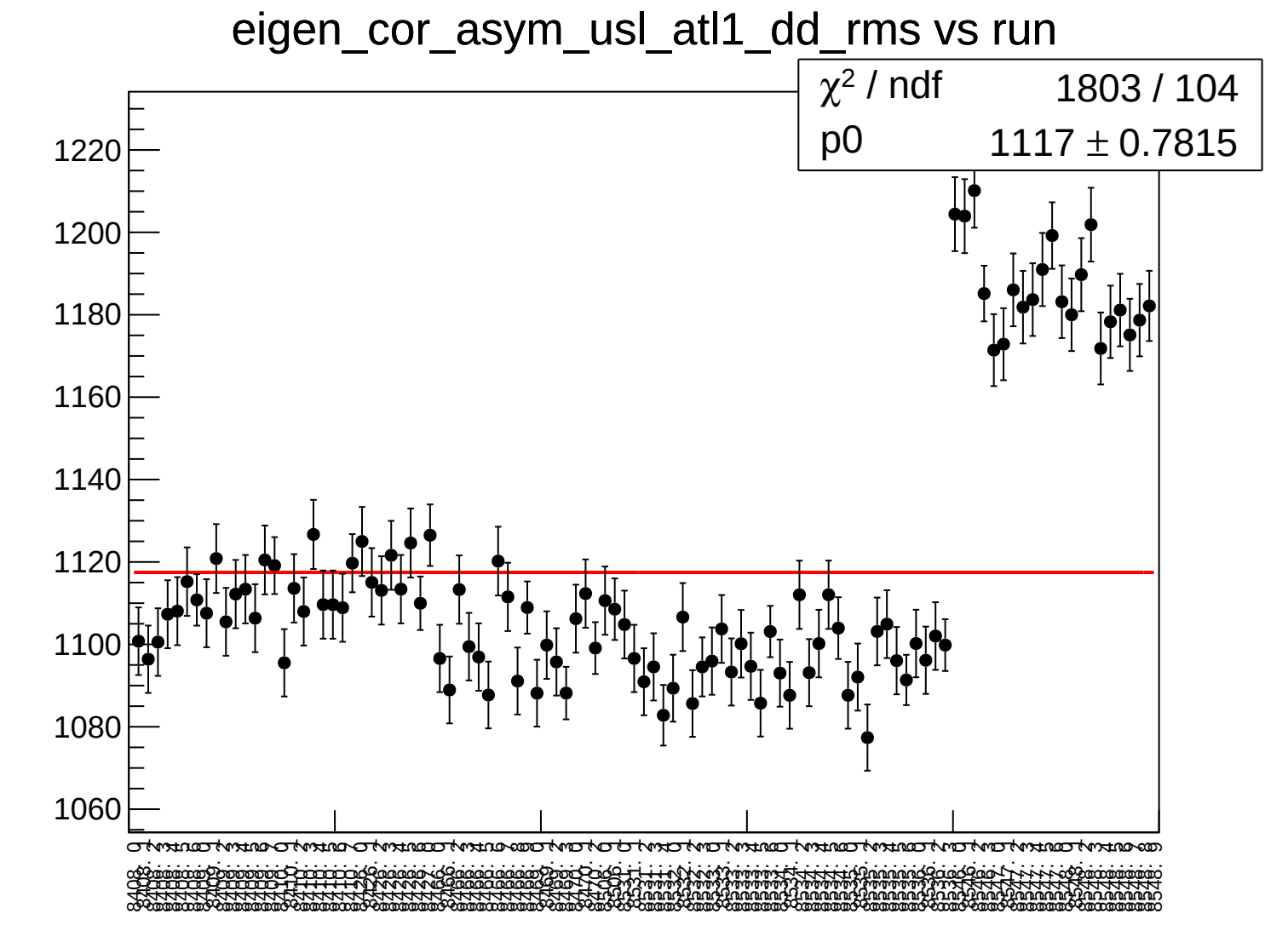

asym_usl_atl1_dd_cor_correction_mean vs run
χ² / ndf 116.9 / 104
p0 −3161 ± 544.5
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 105
Mean 1087
Std Dev 0
2
1
0
−1
−2

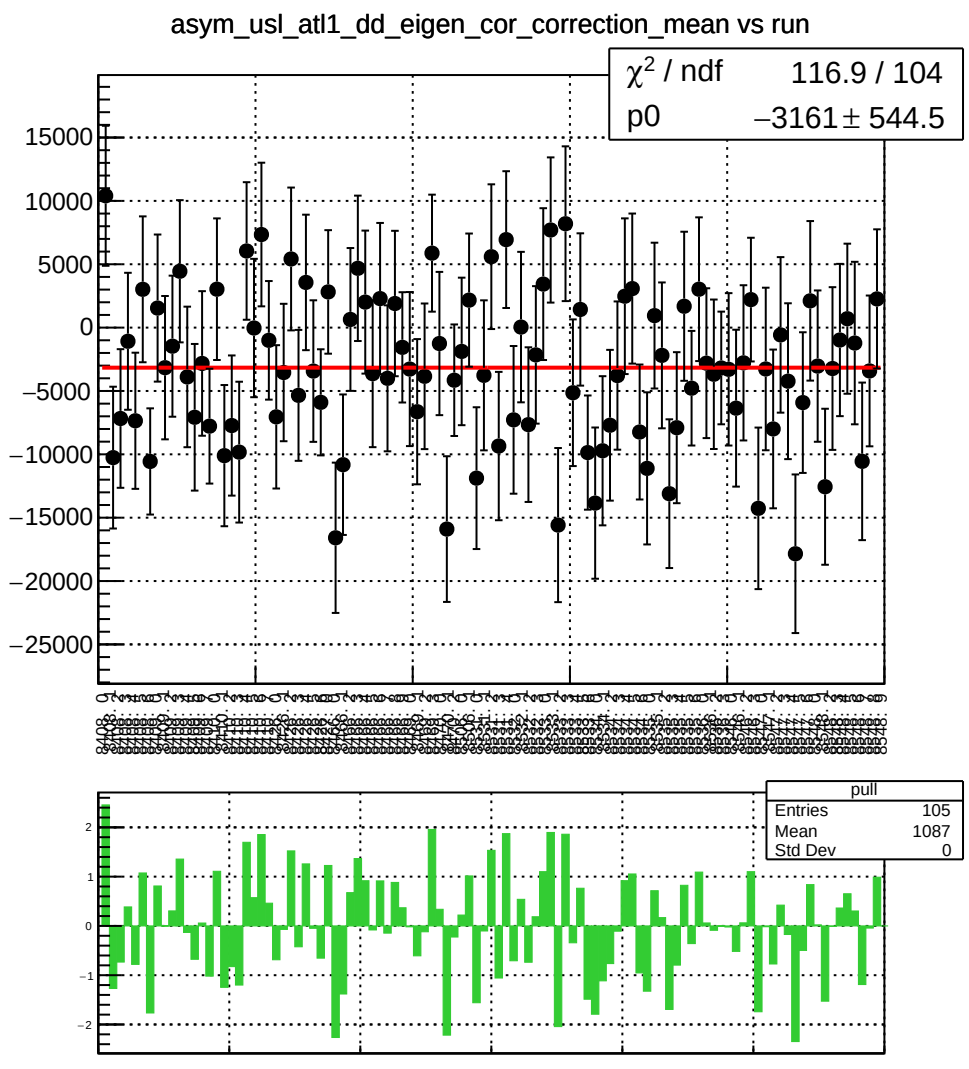

pull1D
Entries 105
Mean −0.003237
Std Dev 1.055
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

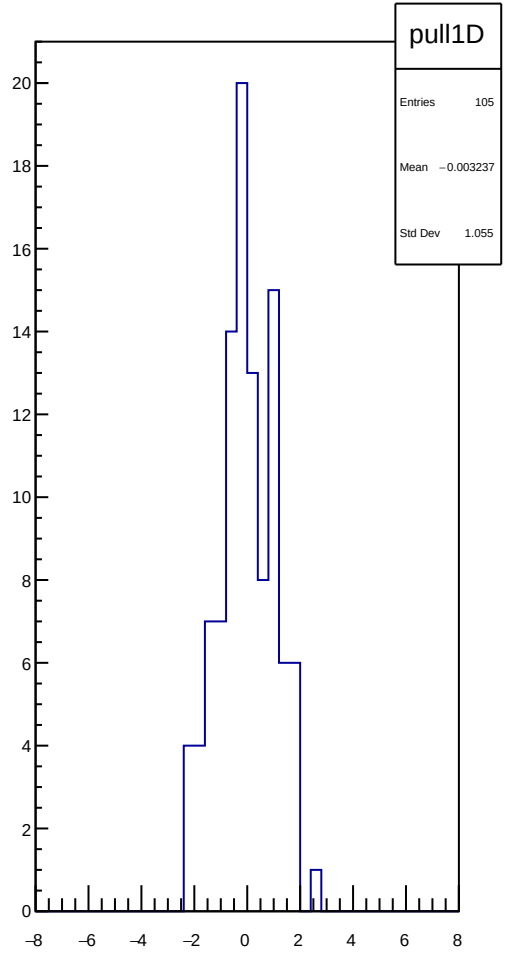

asym_usl_atl1_dd_cor_correction_rms vs run
χ² / ndf 4252 / 104
p0 550.2 ± 0.385
620
600
580
560
540
520
500
480

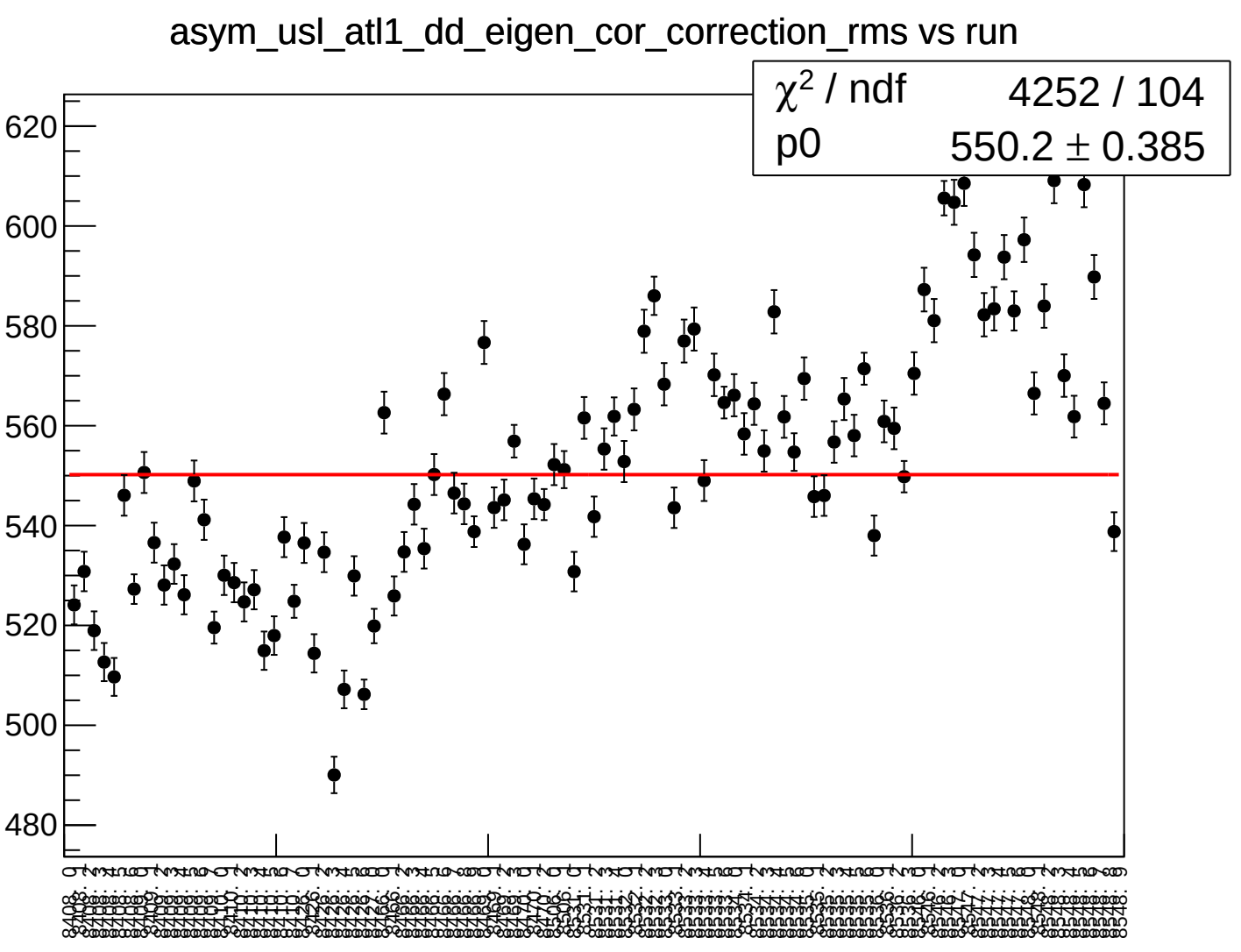

eigen_cor_asym_usl_atl1_dd_mean vs run
χ² / ndf 95.87 / 104
p0 −2031 ± 1105
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 105
Mean 817.3
Std Dev 0
2
1
0
−1
−2

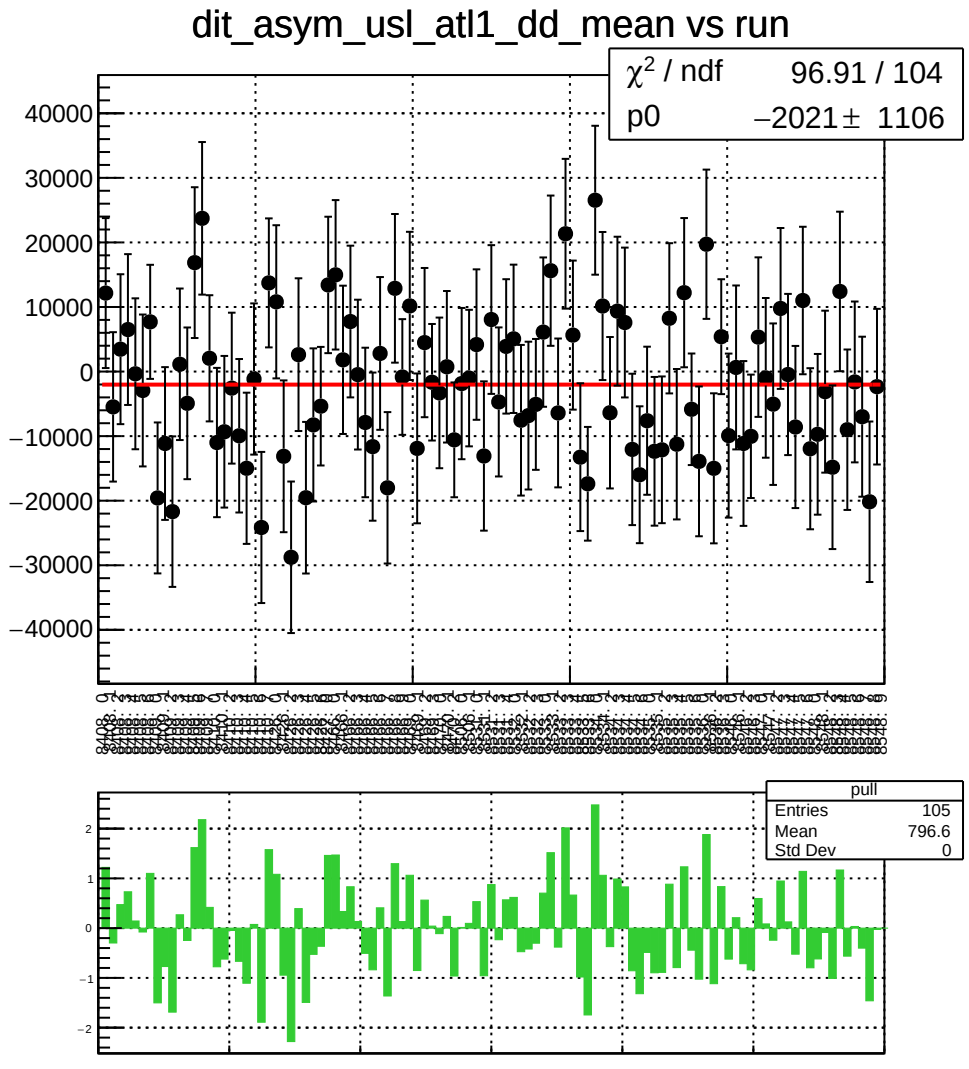

pull1D
Entries 105
Mean −0.001723
Std Dev 0.9555
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

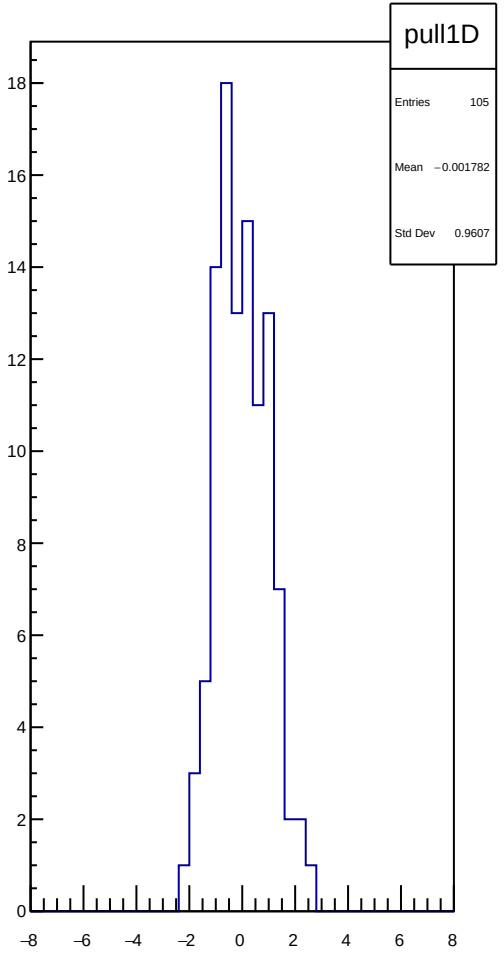

eigen_cor_asym_usl_atl1_dd_rms vs run
χ² / ndf 1803 / 104
p0 1117 ± 0.7815
1220
1200
1180
1160
1140
1120
1100
1080
1060

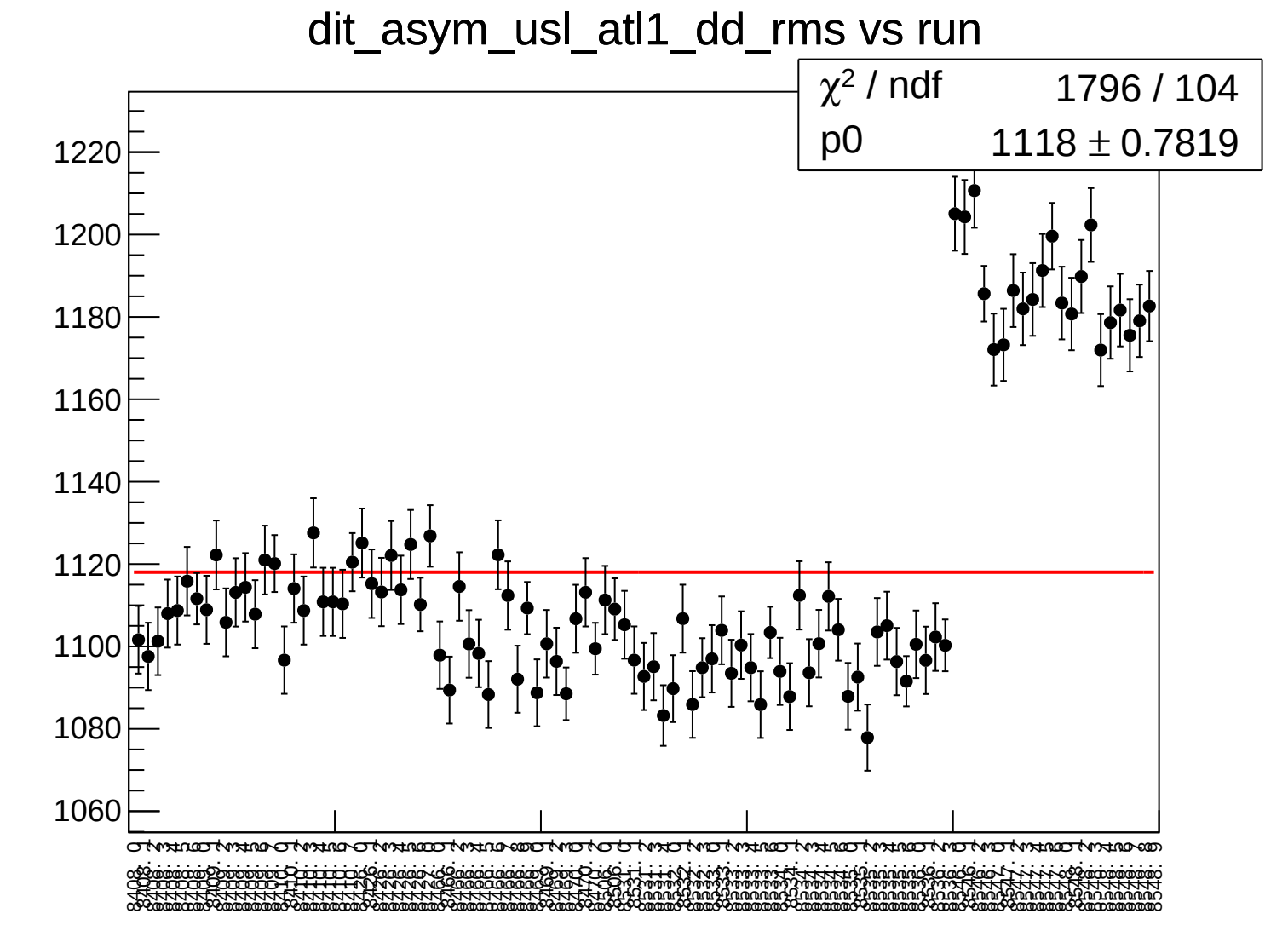

asym_usl_atl1_dd_eigen_cor_correction_mean vs run
χ² / ndf 116.9 / 104
p0 −3161 ± 544.5
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 105
Mean 1087
Std Dev 0
2
1
0
−1
−2

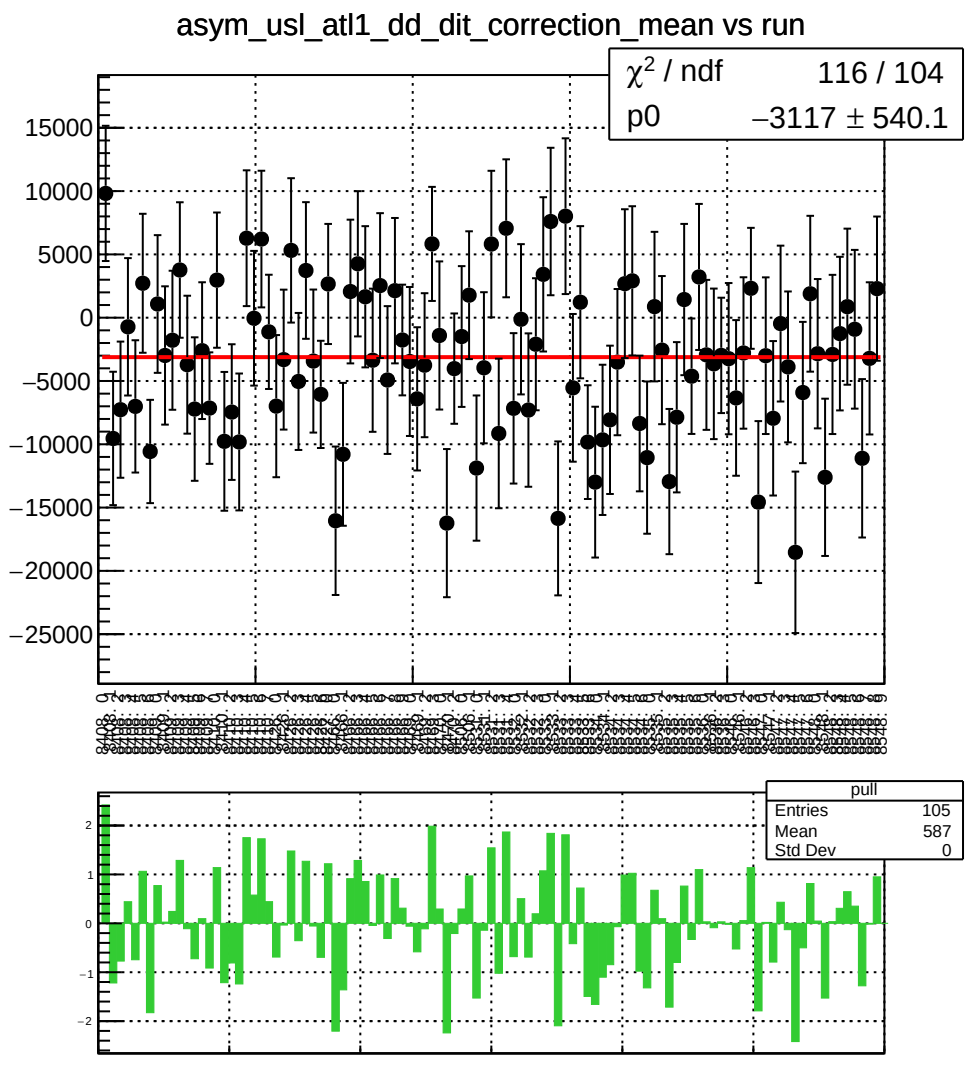

pull1D
Entries 105
Mean −0.003237
Std Dev 1.055
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

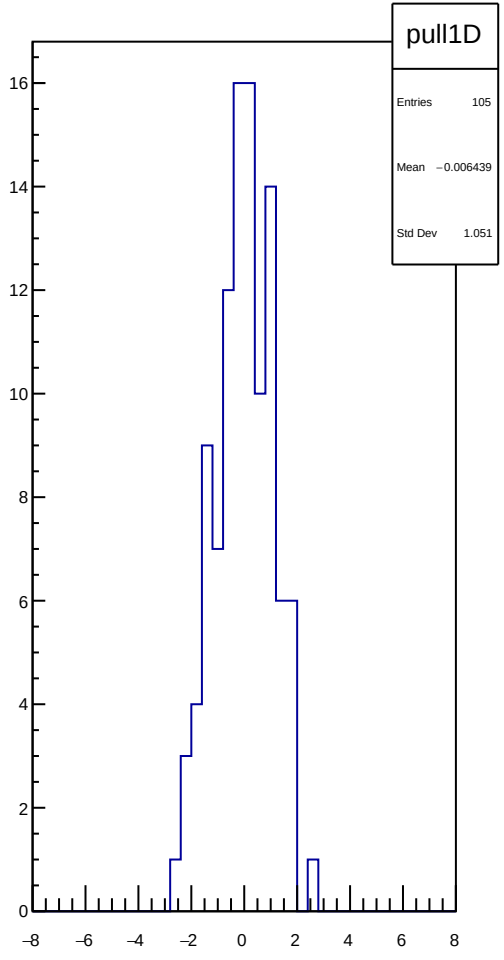

asym_usl_atl1_dd_eigen_cor_correction_rms vs run
χ^2 / ndf 4252 / 104
p0 550.2 ± 0.385
620
600
580
560
540
520
500
480

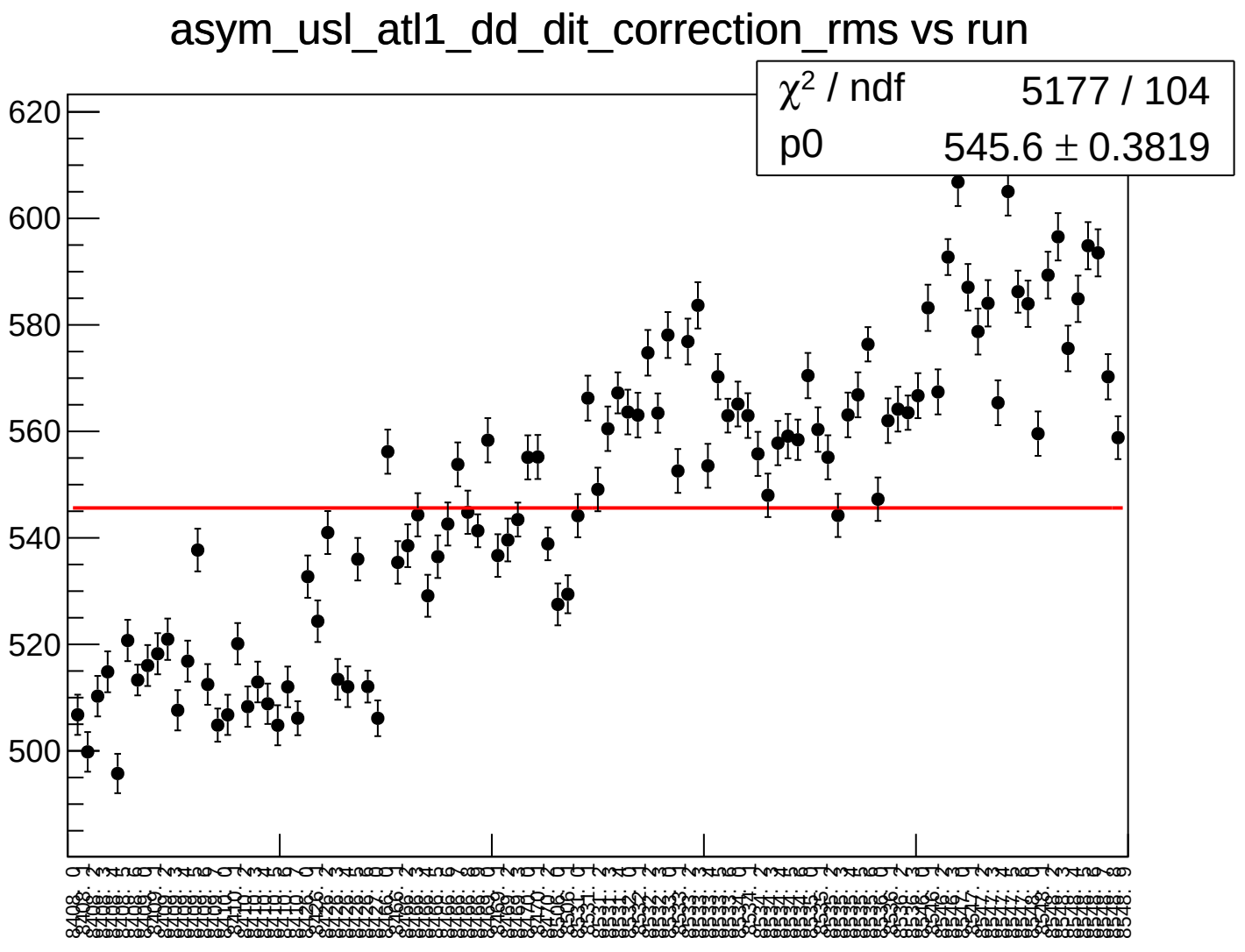

dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 96.91 / 104
p0 −2021 ± 1106
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 105
Mean 796.6
Std Dev 0
2
1
0
−1
−2

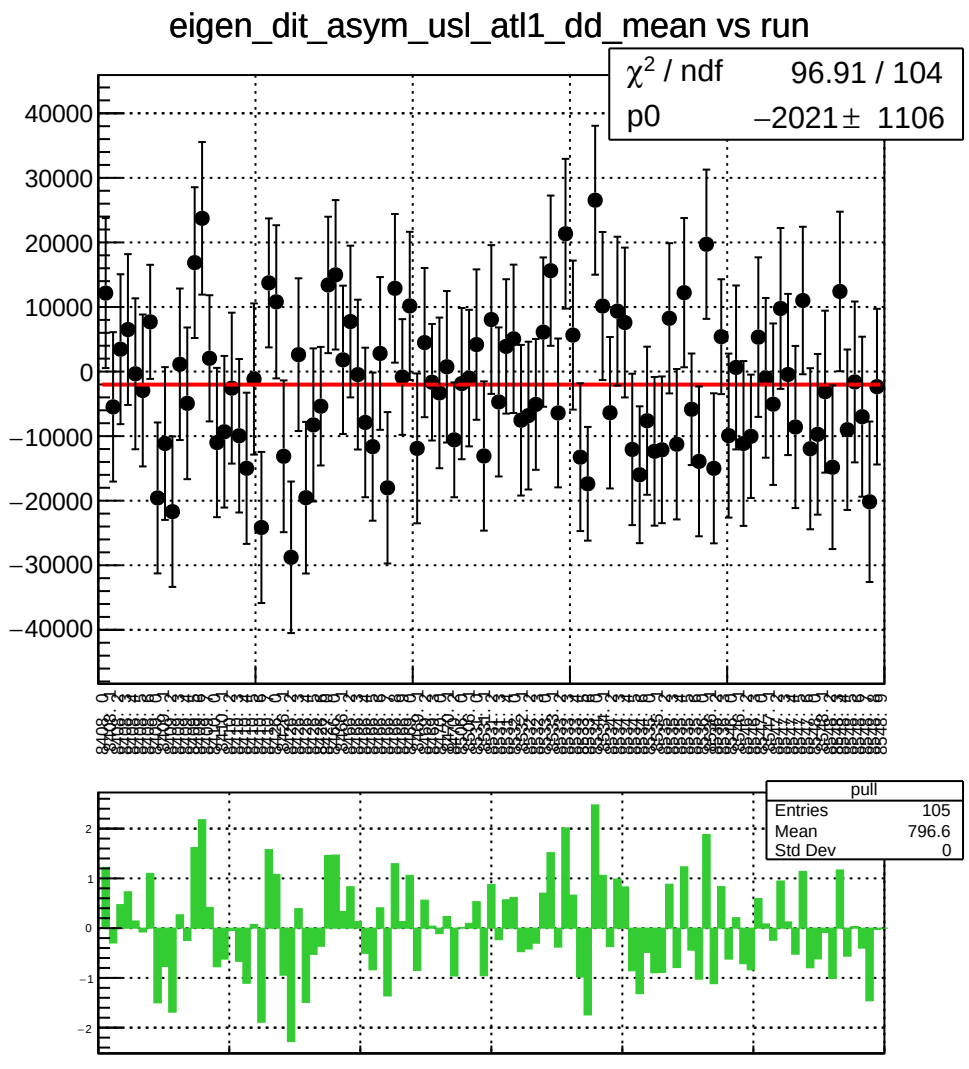

pull1D
Entries 105
Mean −0.001782
Std Dev 0.9607
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

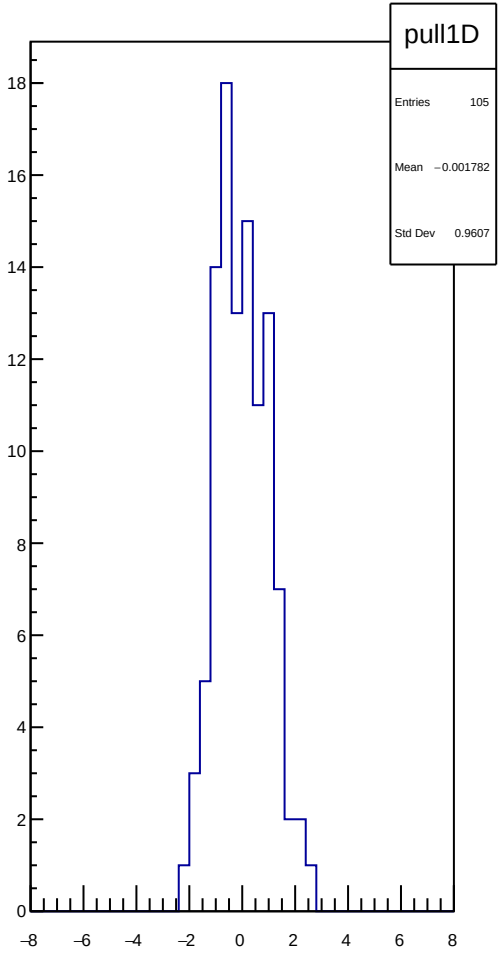

dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 1796 / 104
p0 1118 ± 0.7819
1220
1200
1180
1160
1140
1120
1100
1080
1060

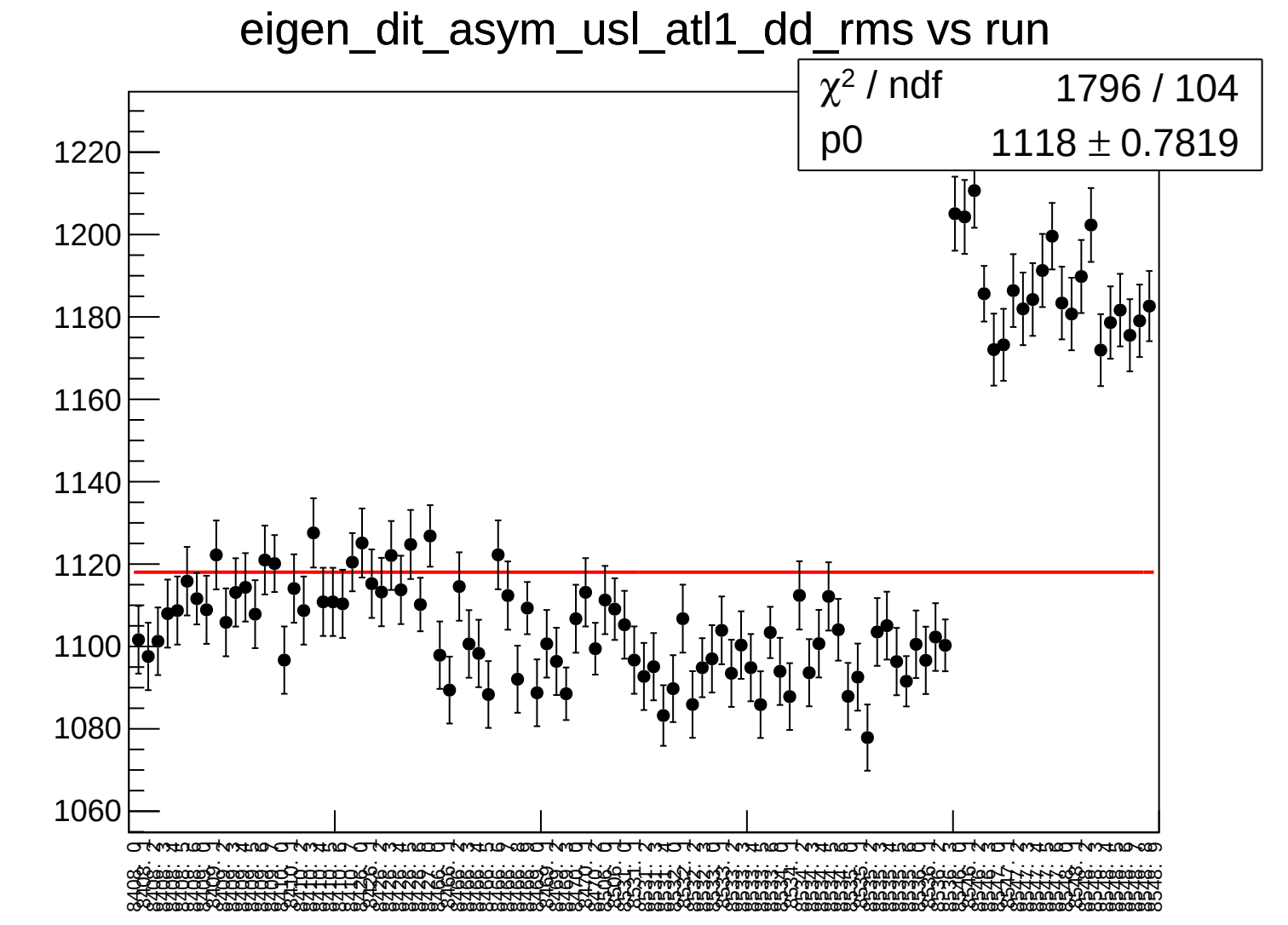

asym_usl_atl1_dd_dit_correction_mean vs run
χ² / ndf 116 / 104
p0 −3117 ± 540.1
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 105
Mean 587
Std Dev 0
2
1
0
−1
−2

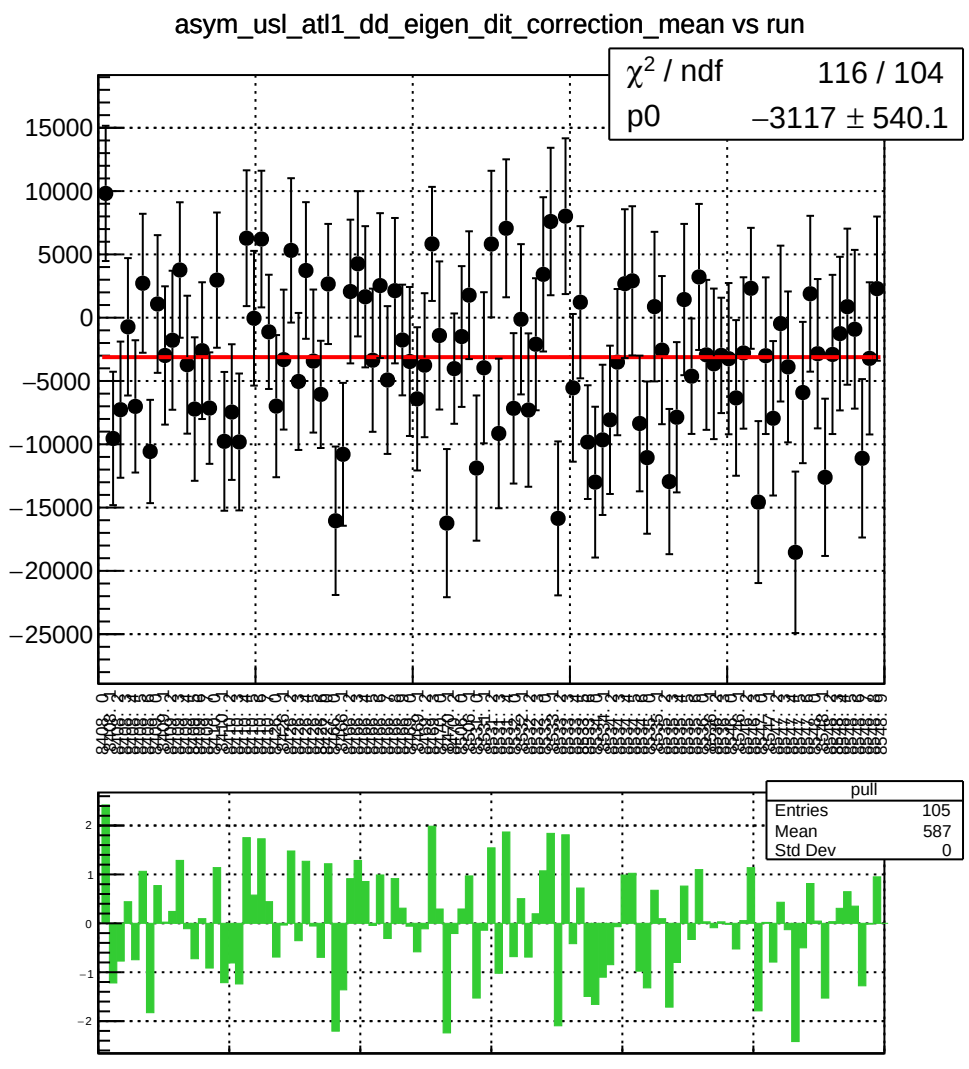

pull1D
Entries 105
Mean −0.006439
Std Dev 1.051
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

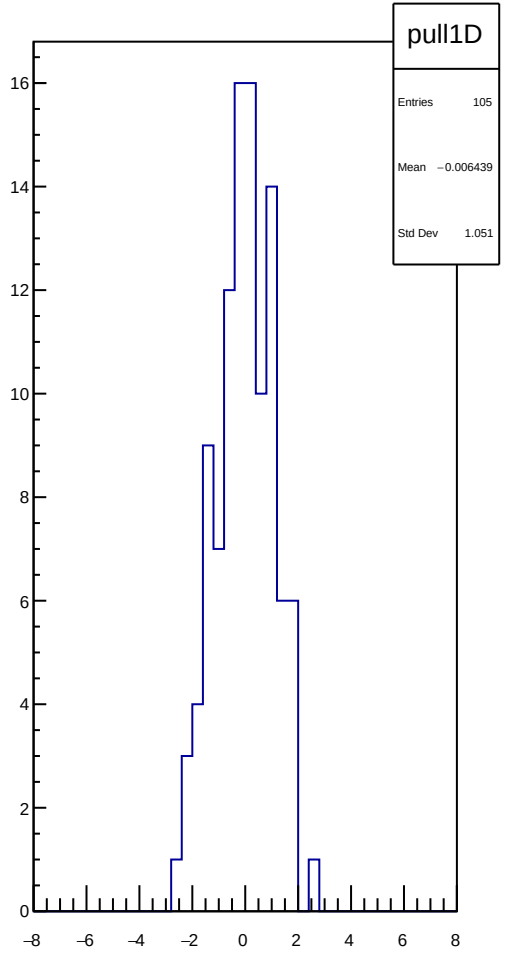

asym_usl_atl1_dd_dit_correction_rms vs run
χ² / ndf 5177 / 104
p0 545.6 ± 0.3819
620
600
580
560
540
520
500

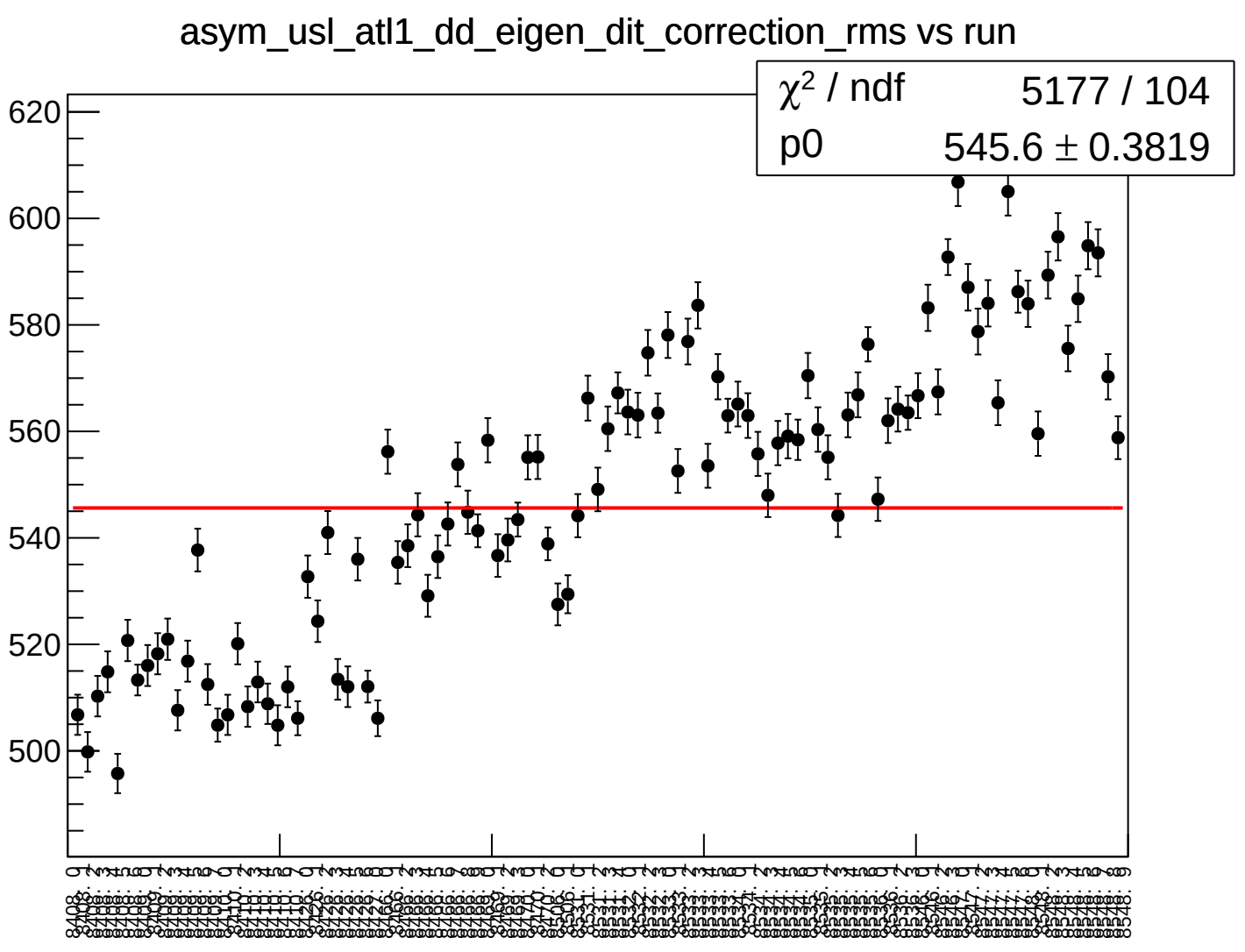

eigen_dit_asym_usl_atl1_dd_mean vs run
χ² / ndf 96.91 / 104
p0 −2021 ± 1106
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 105
Mean 796.6
Std Dev 0
2
1
0
−1
−2

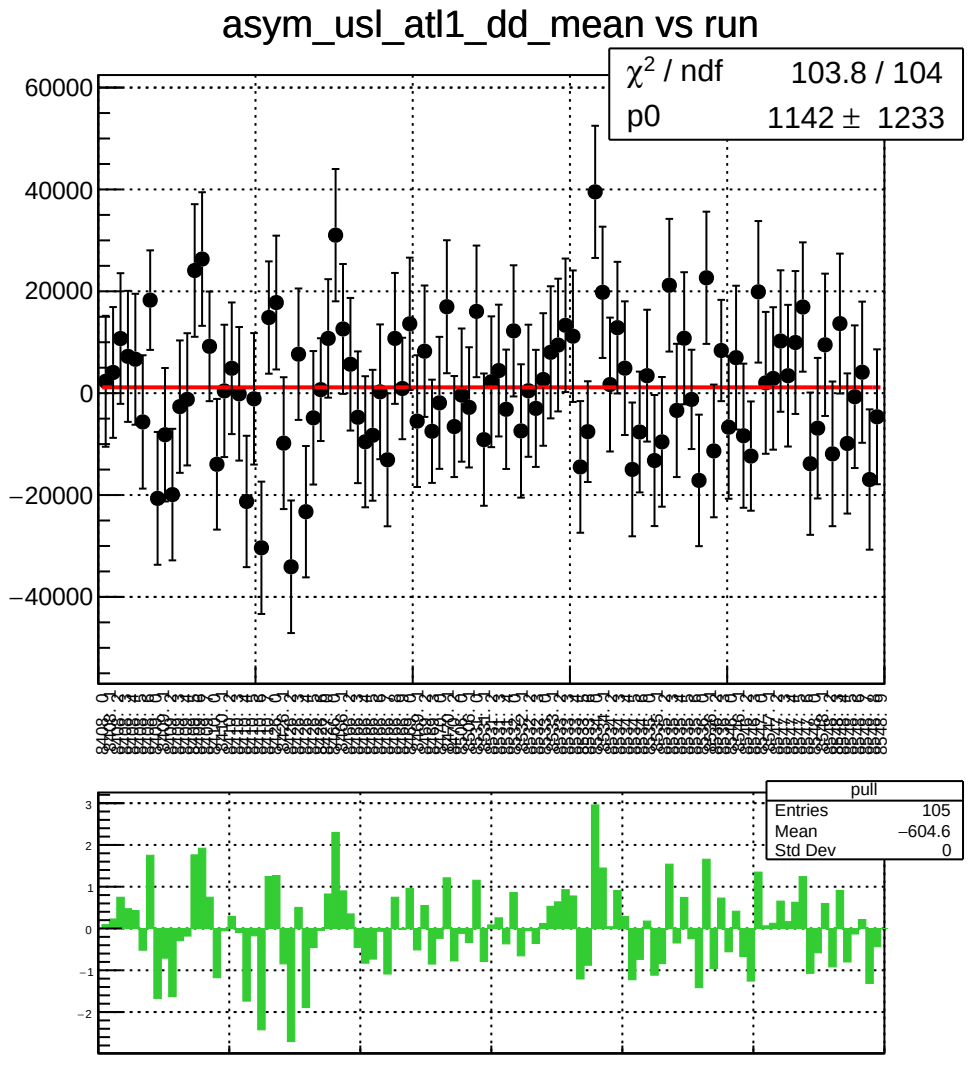

pull1D
Entries 105
Mean −0.001782
Std Dev 0.9607
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

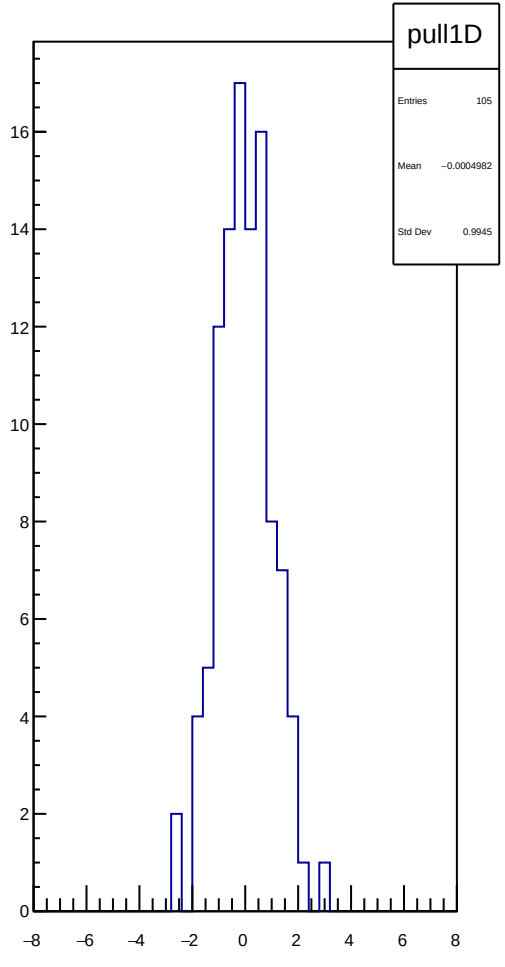

eigen_dit_asym_usl_atl1_dd_rms vs run
χ² / ndf 1796 / 104
p0 1118 ± 0.7819
1220
1200
1180
1160
1140
1120
1100
1080
1060

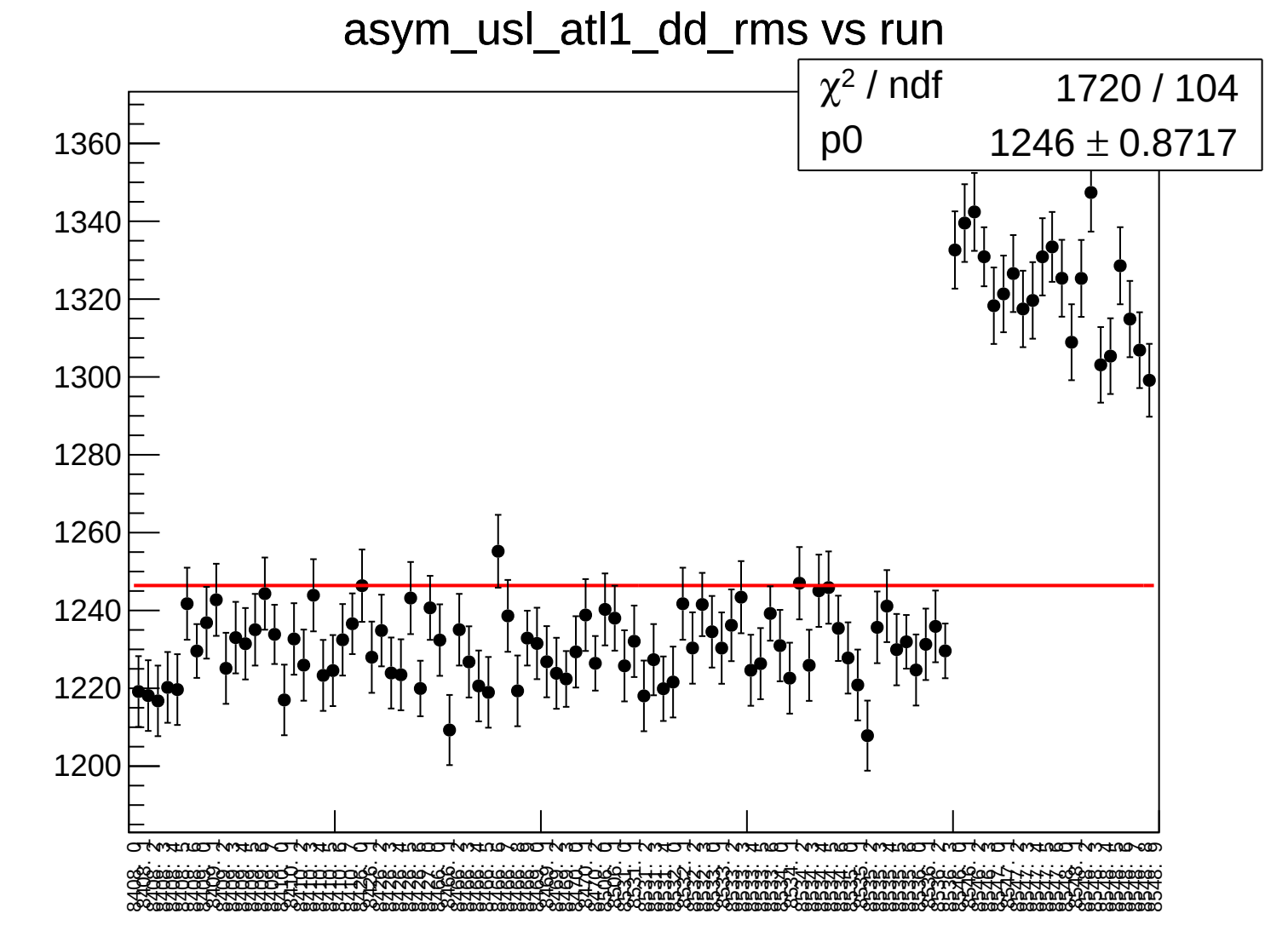

asym_usl_atl1_dd_eigen_dit_correction_mean vs run
χ² / ndf 116 / 104
p0 −3117 ± 540.1
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 105
Mean 587
Std Dev 0
2
1
0
−1
−2

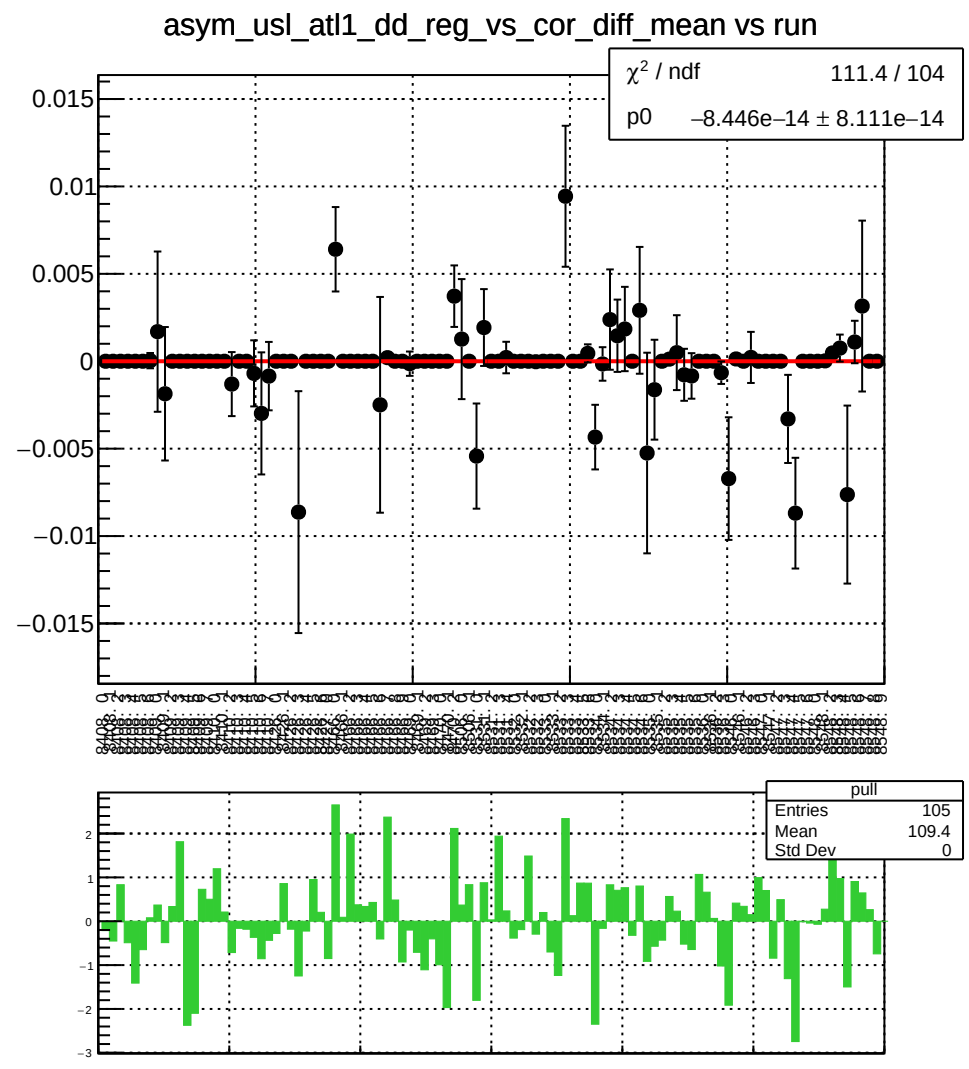

pull1D
Entries 105
Mean −0.006439
Std Dev 1.051
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

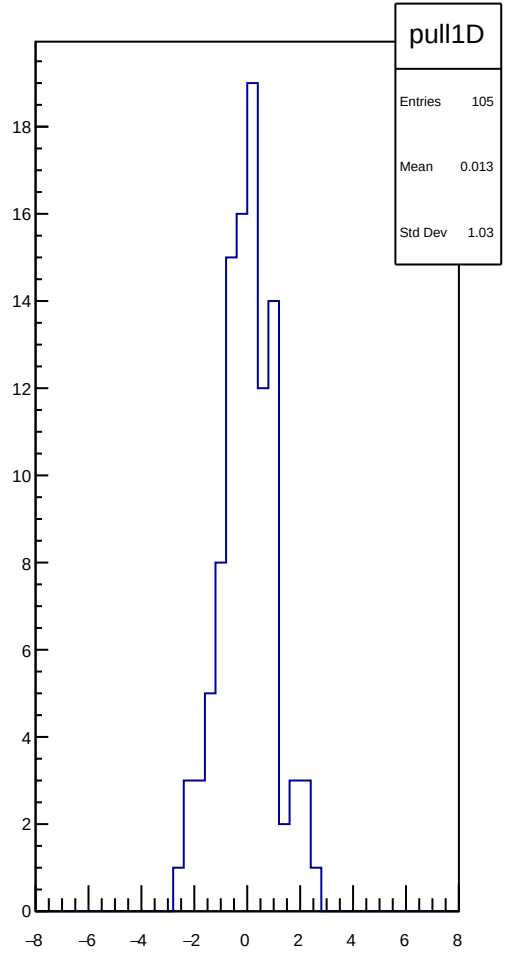

asym_usl_atl1_dd_eigen_dit_correction_rms vs run
χ² / ndf 5177 / 104
p0 545.6 ± 0.3819
620
600
580
560
540
520
500

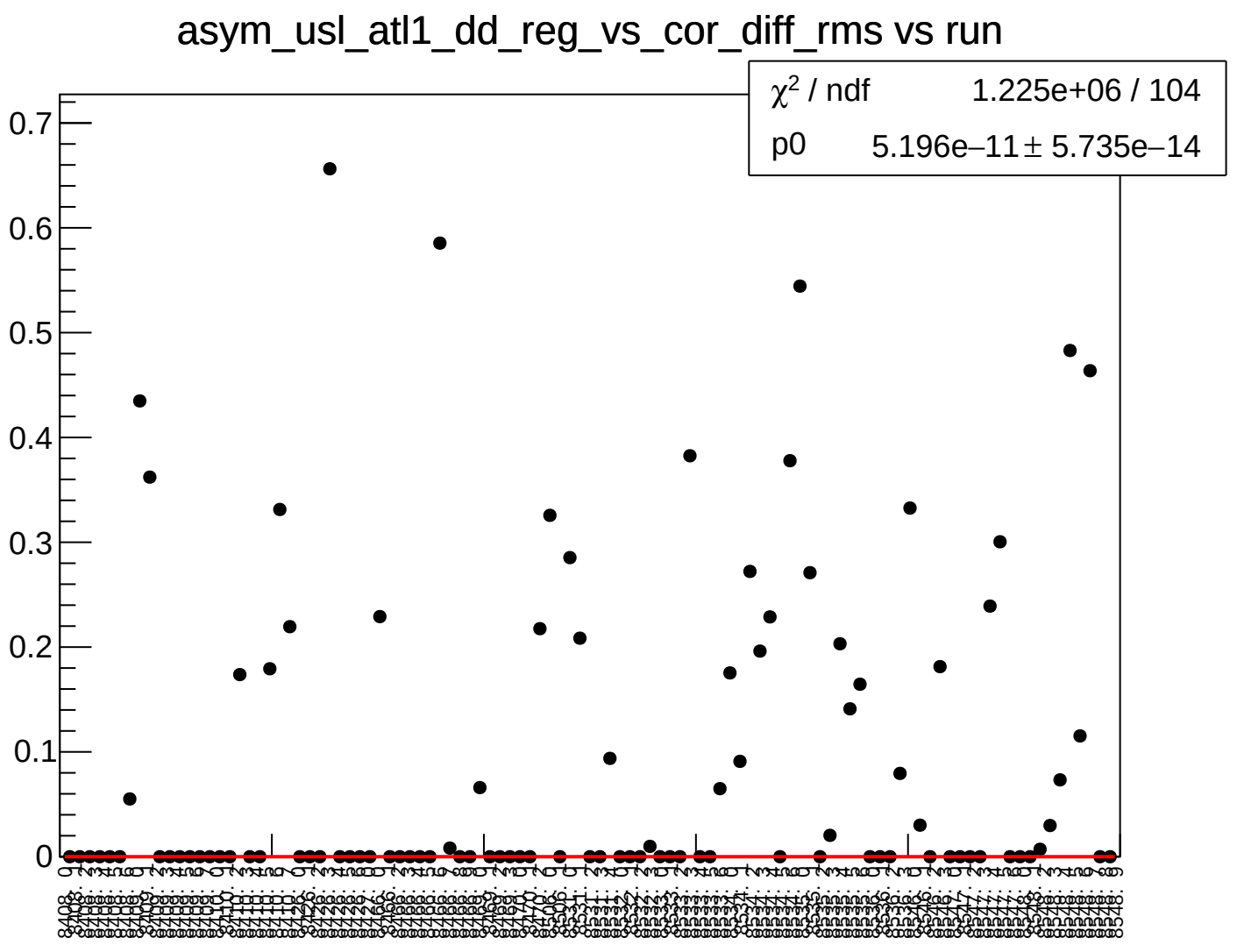

asym_usl_atl1_dd_mean vs run
χ² / ndf 103.8 / 104
p0 1142 ± 1233
60000
40000
20000
0
−20000
−40000
pull
Entries 105
Mean −604.6
Std Dev 0
3
2
1
0
−1
−2

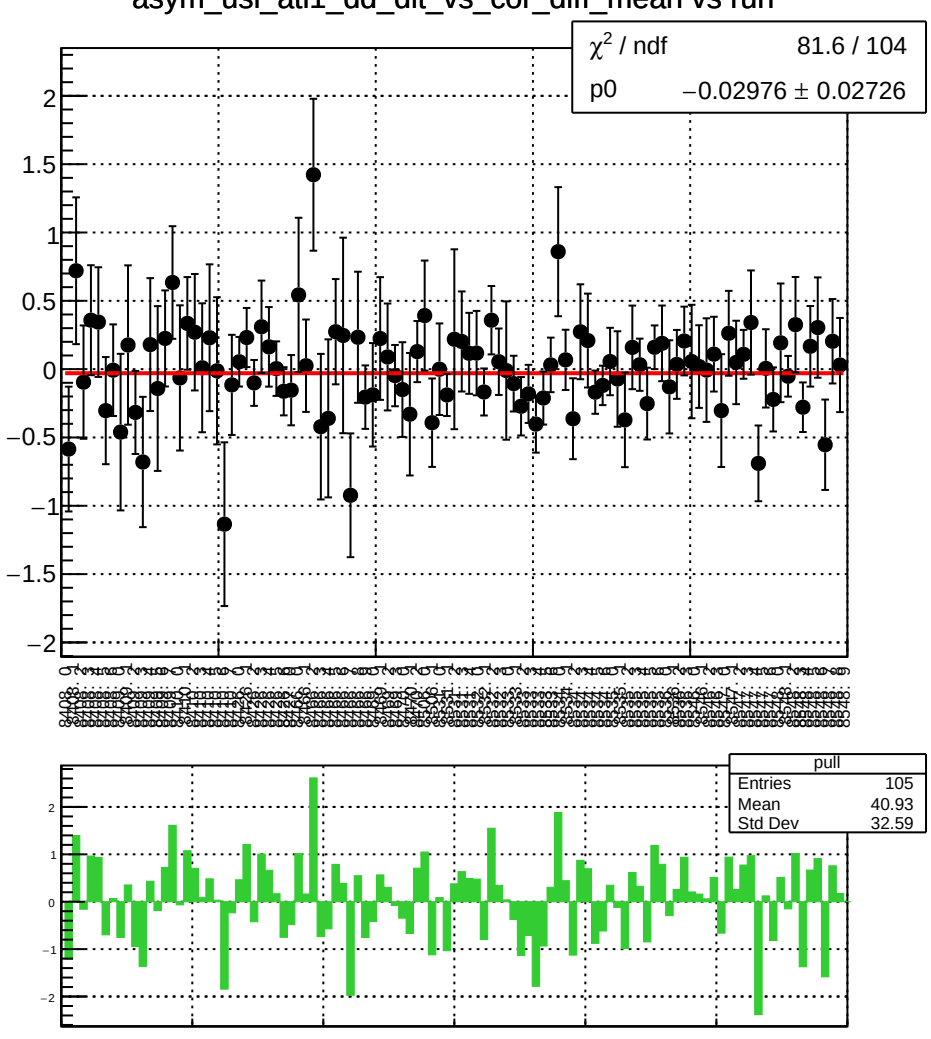

pull1D
Entries 105
Mean −0.0004982
Std Dev 0.9945
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

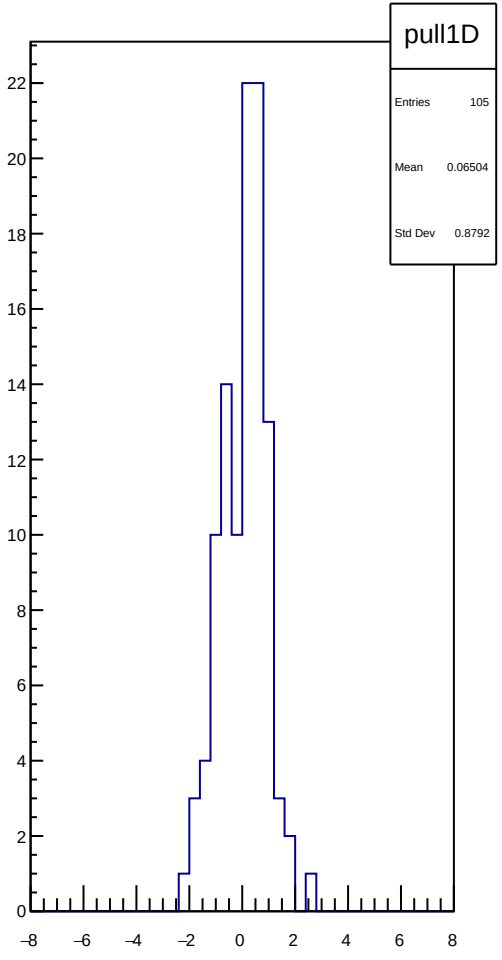

asym_usl_atl1_dd_rms vs run
χ² / ndf 1720 / 104
p0 1246 ± 0.8717
1360
1340
1320
1300
1280
1260
1240
1220
1200

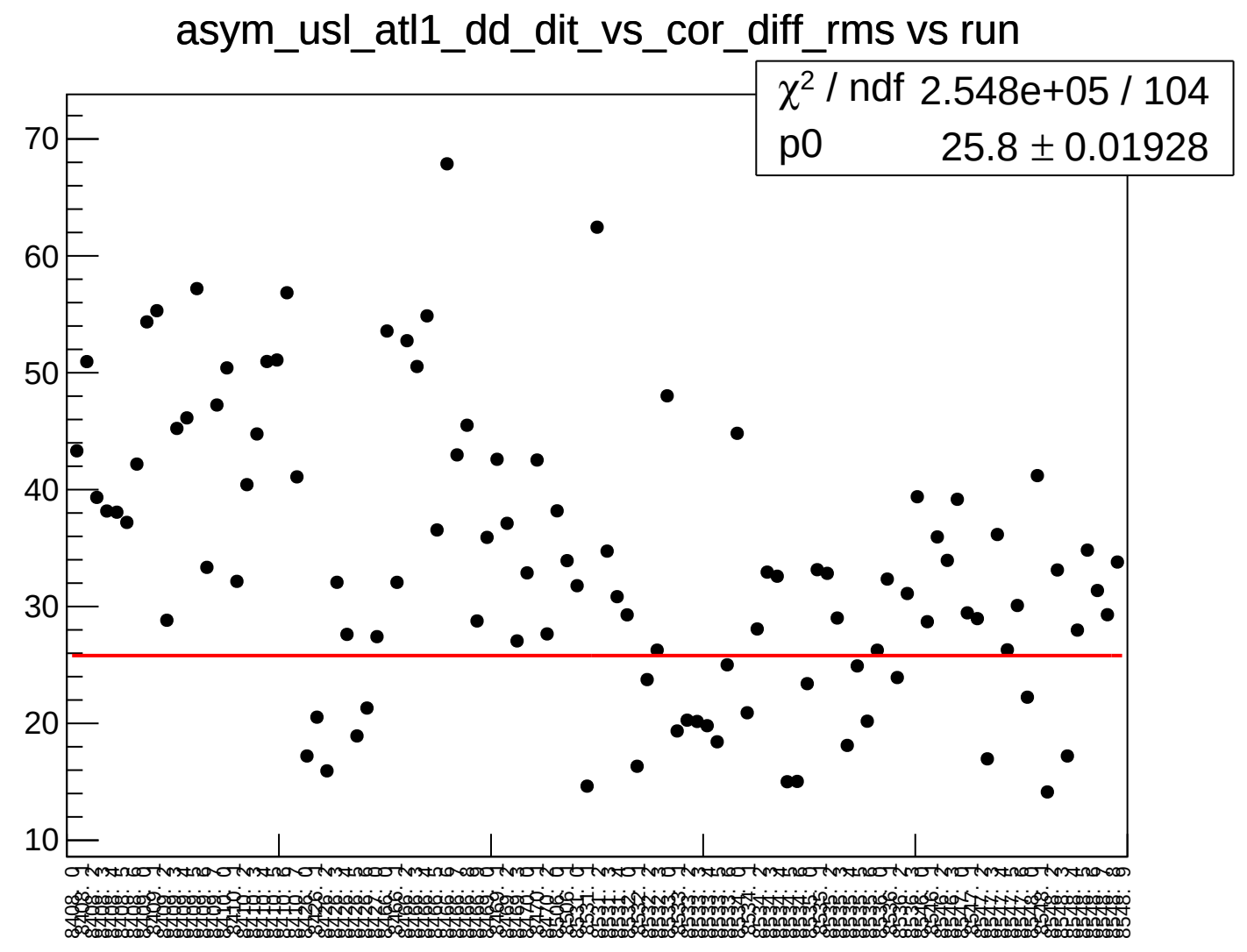

asym_usl_atl1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 111.4 / 104
p0 −8.446e−14 ± 8.111e−14
0.015
0.01
0.005
0
−0.005
−0.01
−0.015
pull
Entries 105
Mean 109.4
Std Dev 0
2
1
0
−1
−2
−3

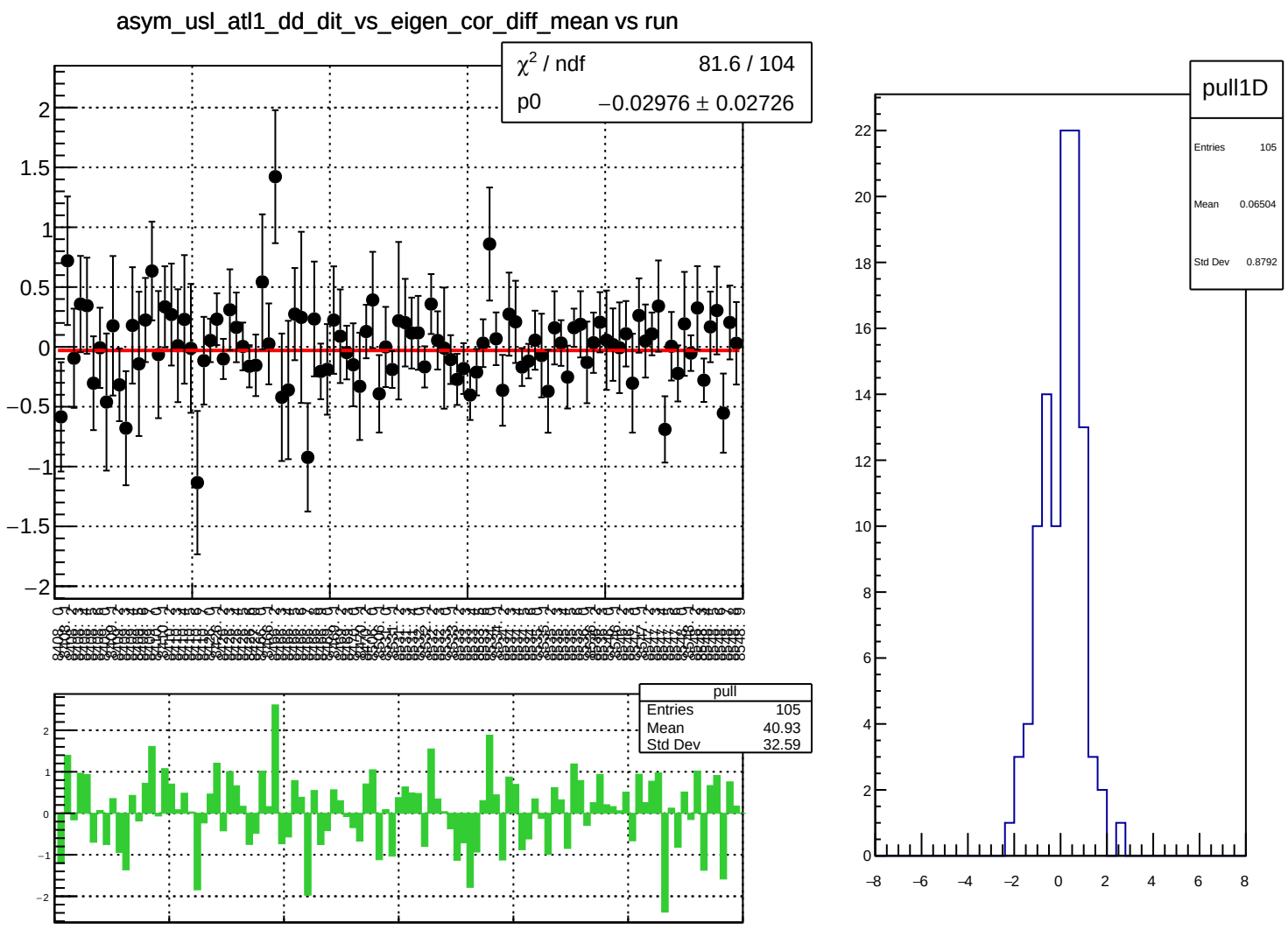

pull1D
Entries 105
Mean 0.013
Std Dev 1.03
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

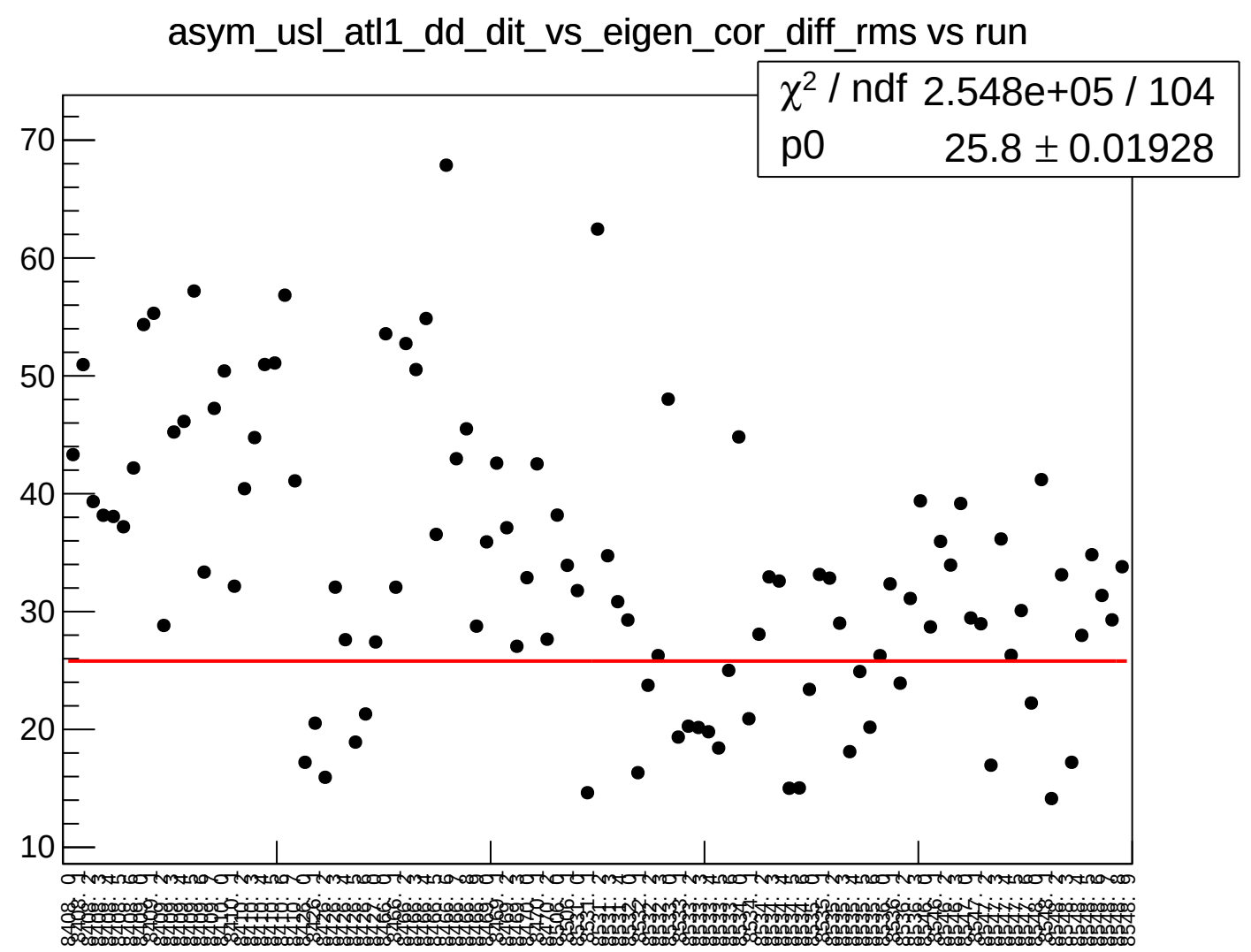

asym_usl_atl1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.225e+06 / 104
p0 5.196e−11 ± 5.735e−14
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

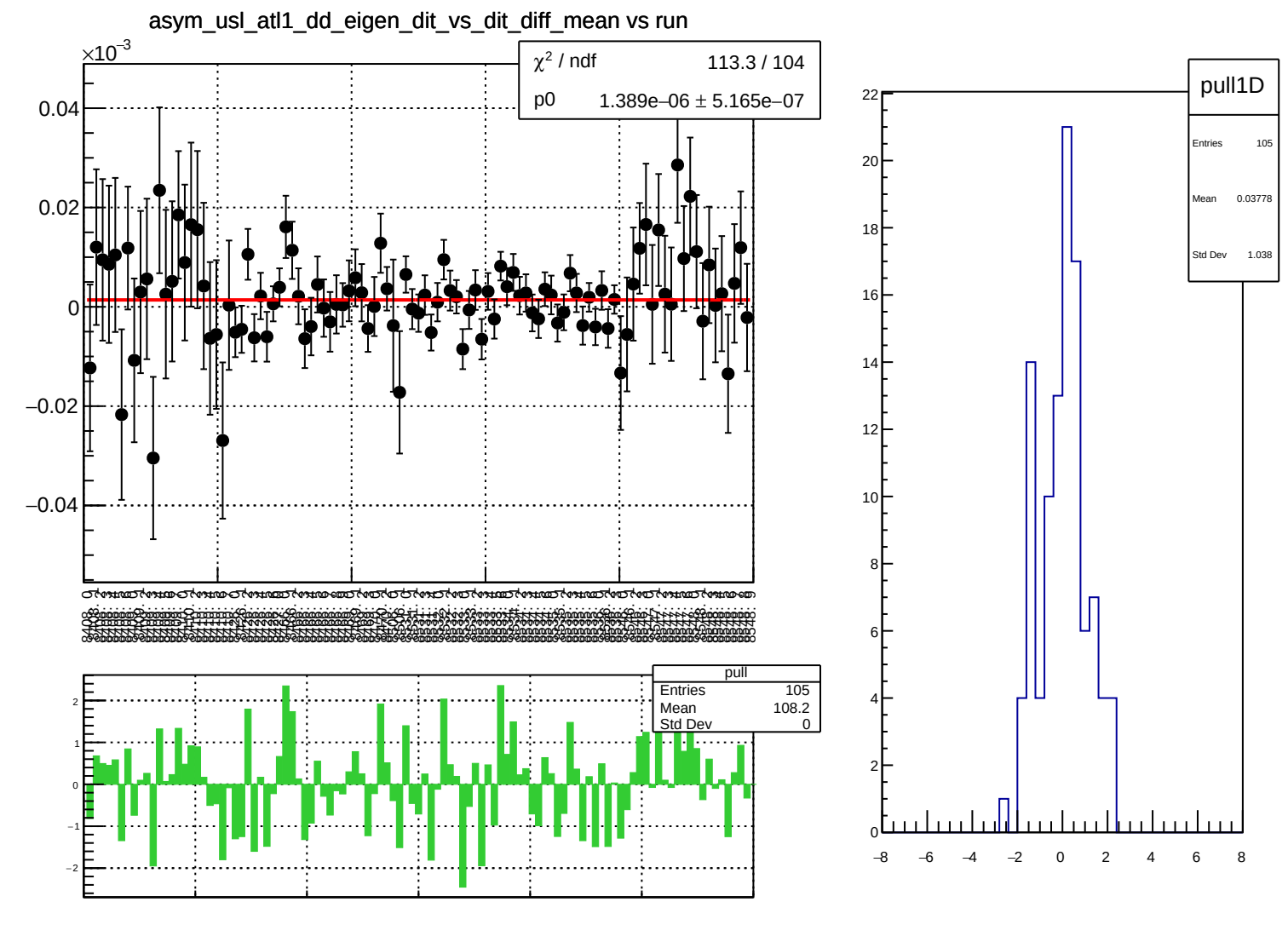

asym_usl_atl1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 81.6 / 104
p0 −0.02976 ± 0.02726
pull
Entries 105
Mean 40.93
Std Dev 32.59

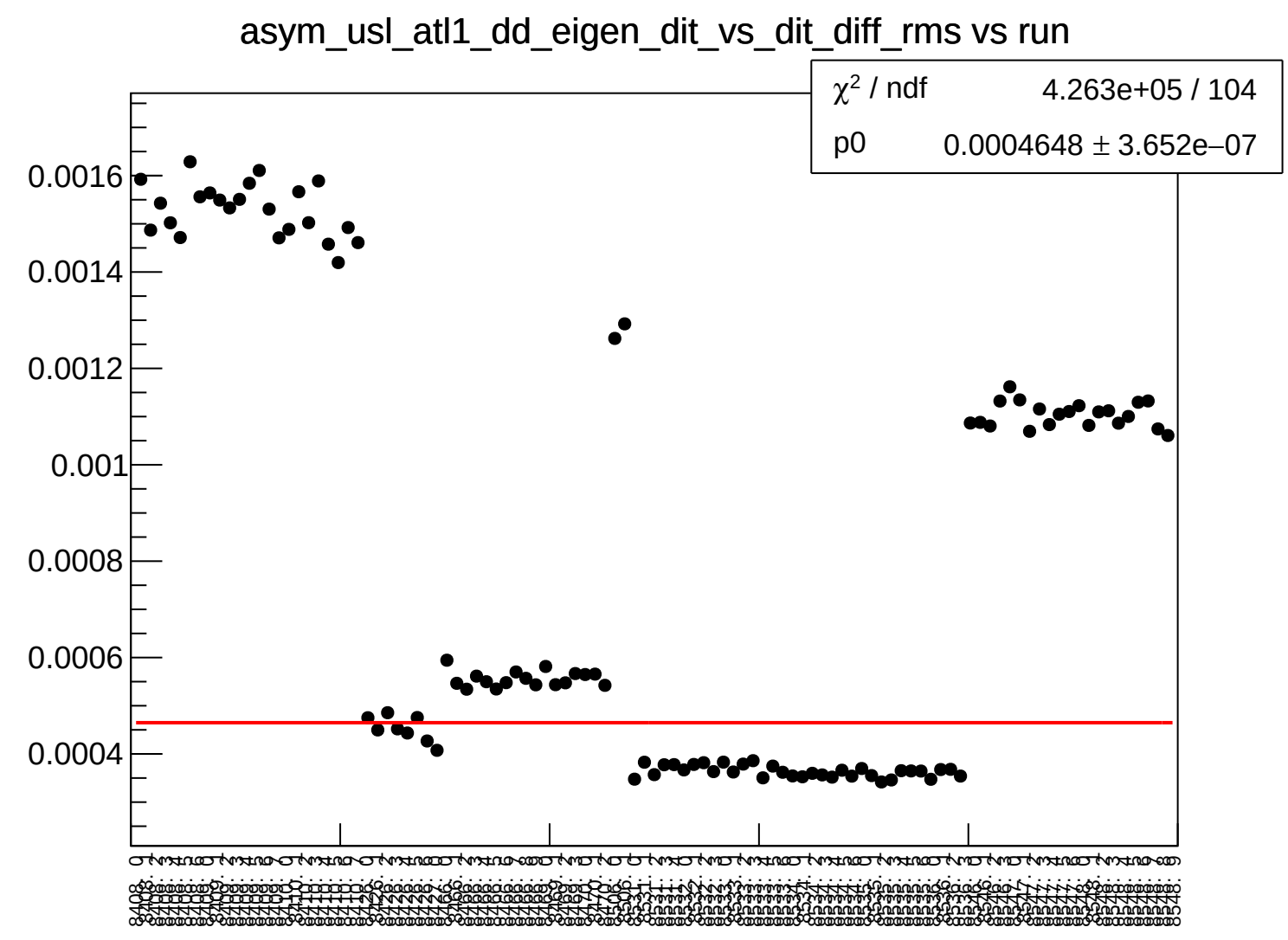

pull1D
Entries 105
Mean 0.06504
Std Dev 0.8792

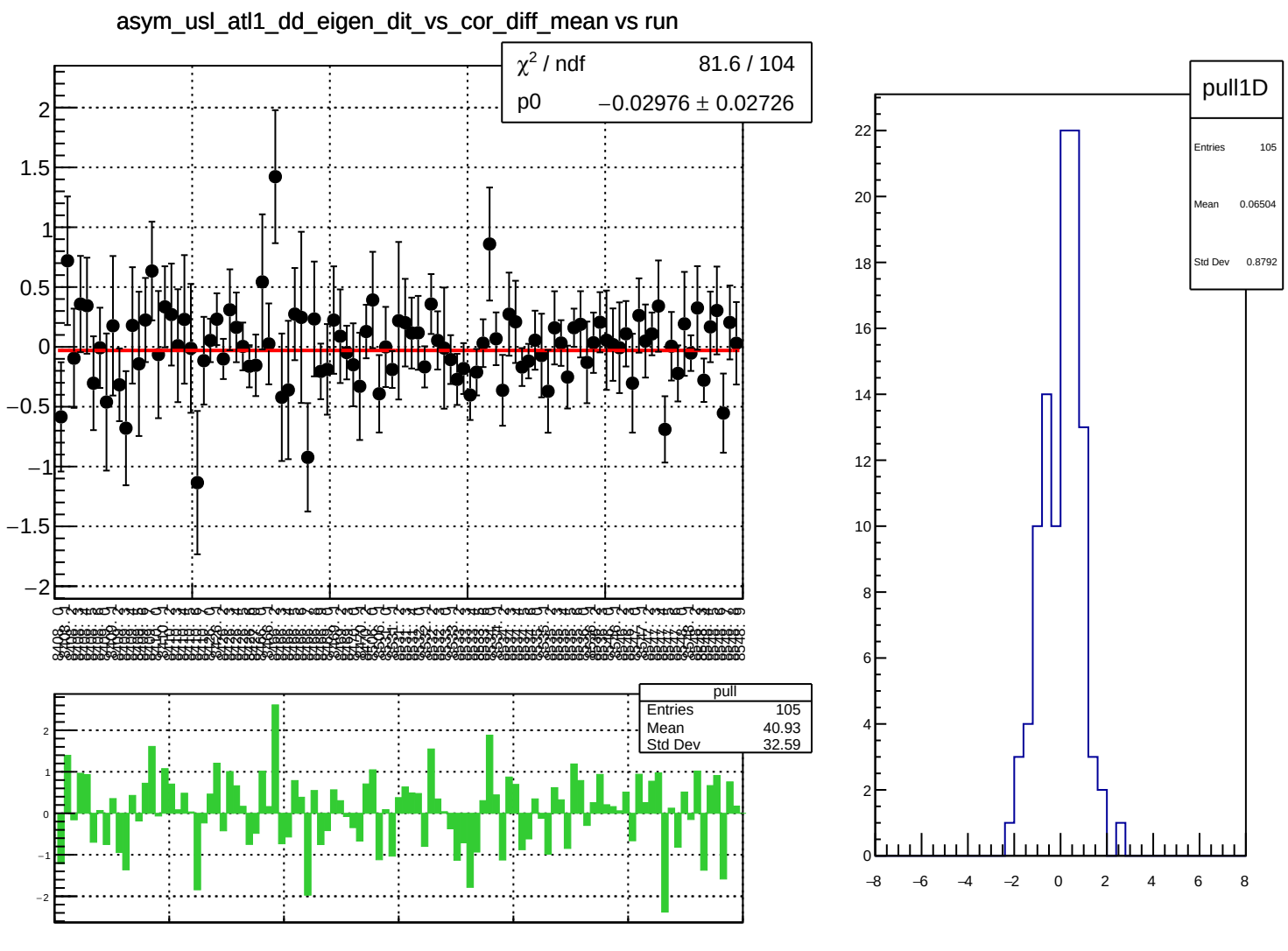

asym_usl_atl1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.548e+05 / 104
p0 25.8 ± 0.01928
70
60
50
40
30
20
10

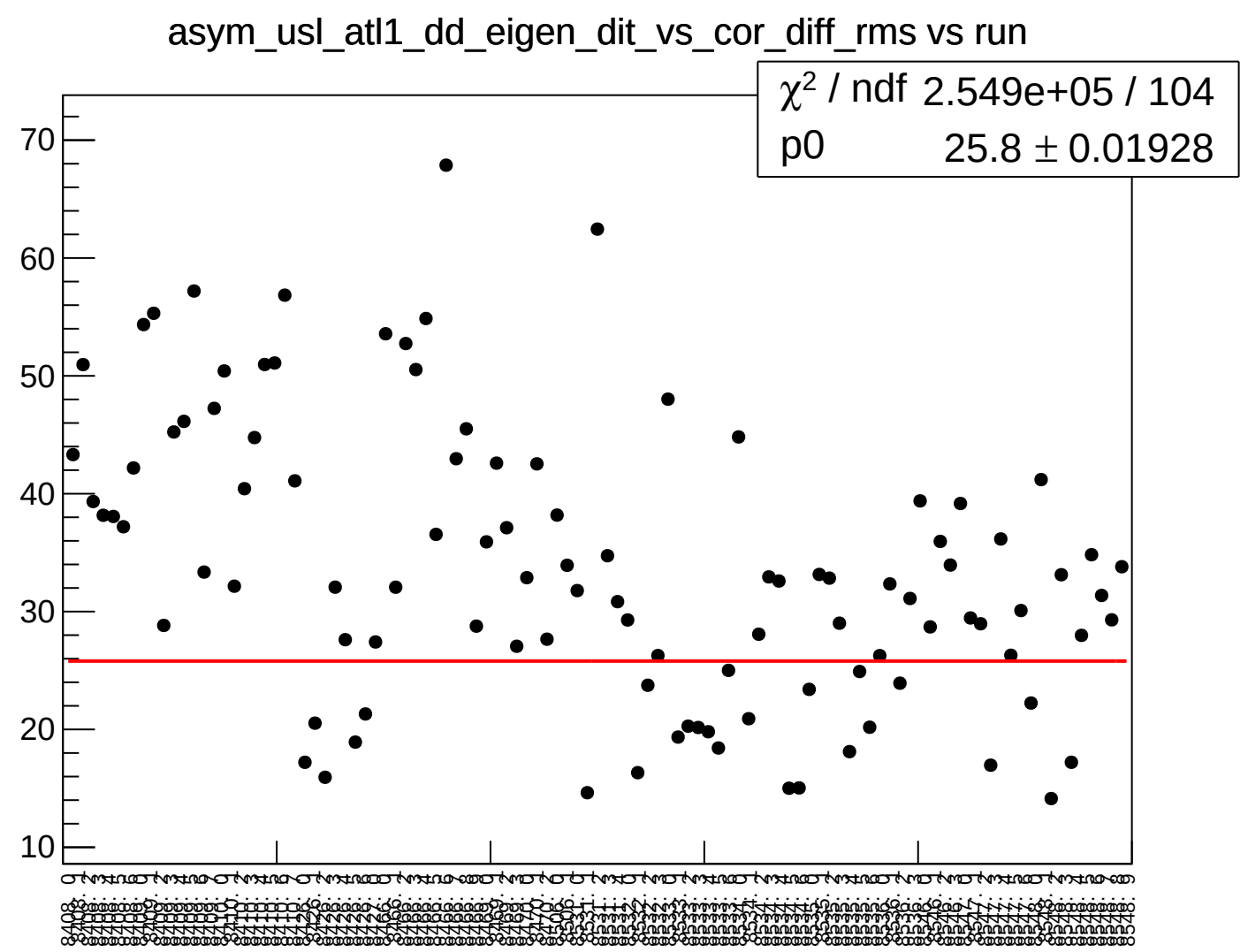

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.6 / 104
p0 −0.02976 ± 0.02726
pull
Entries 105
Mean 40.93
Std Dev 32.59
pull1D
Entries 105
Mean 0.06504
Std Dev 0.8792

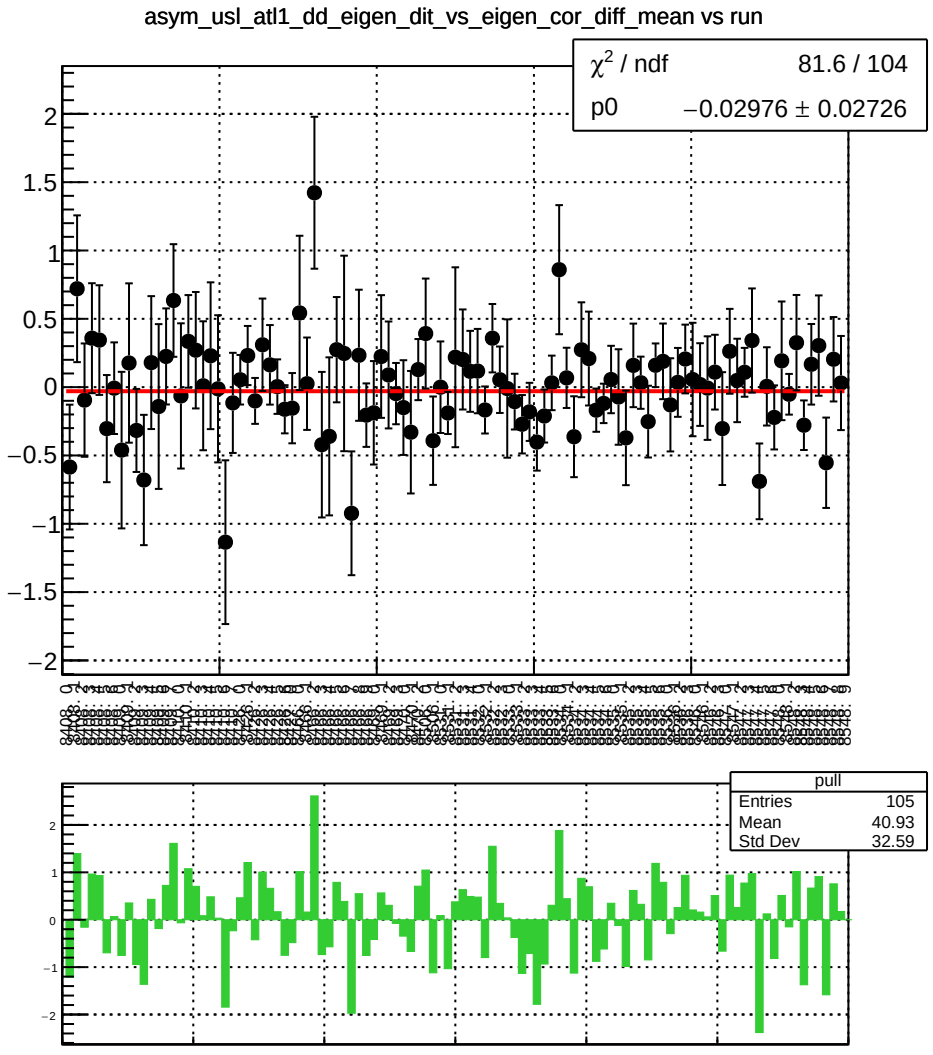

asym_usl_atl1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.548e+05 / 104
p0 25.8 ± 0.01928
70
60
50
40
30
20
10

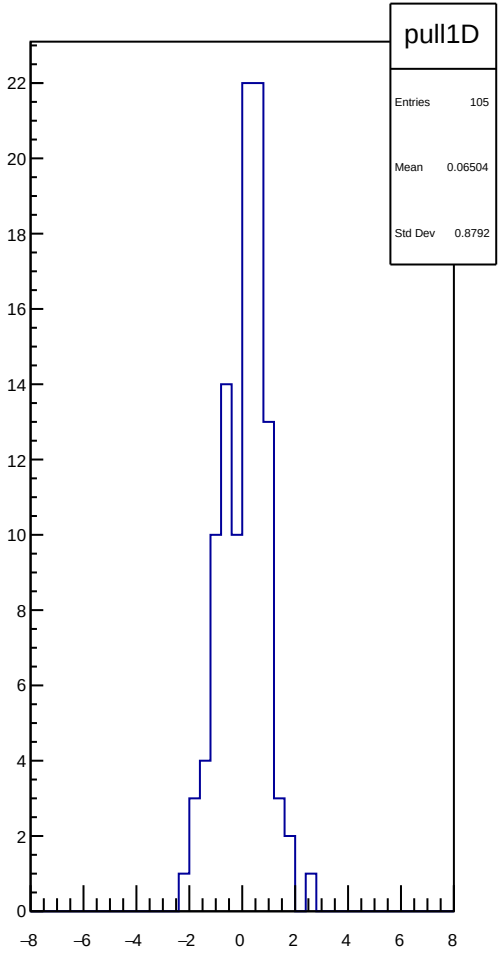

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 113.3 / 104
p0 1.389e−06 ± 5.165e−07
0.04
0.02
0
−0.02
−0.04
pull
Entries 105
Mean 108.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.03778
Std Dev 1.038
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

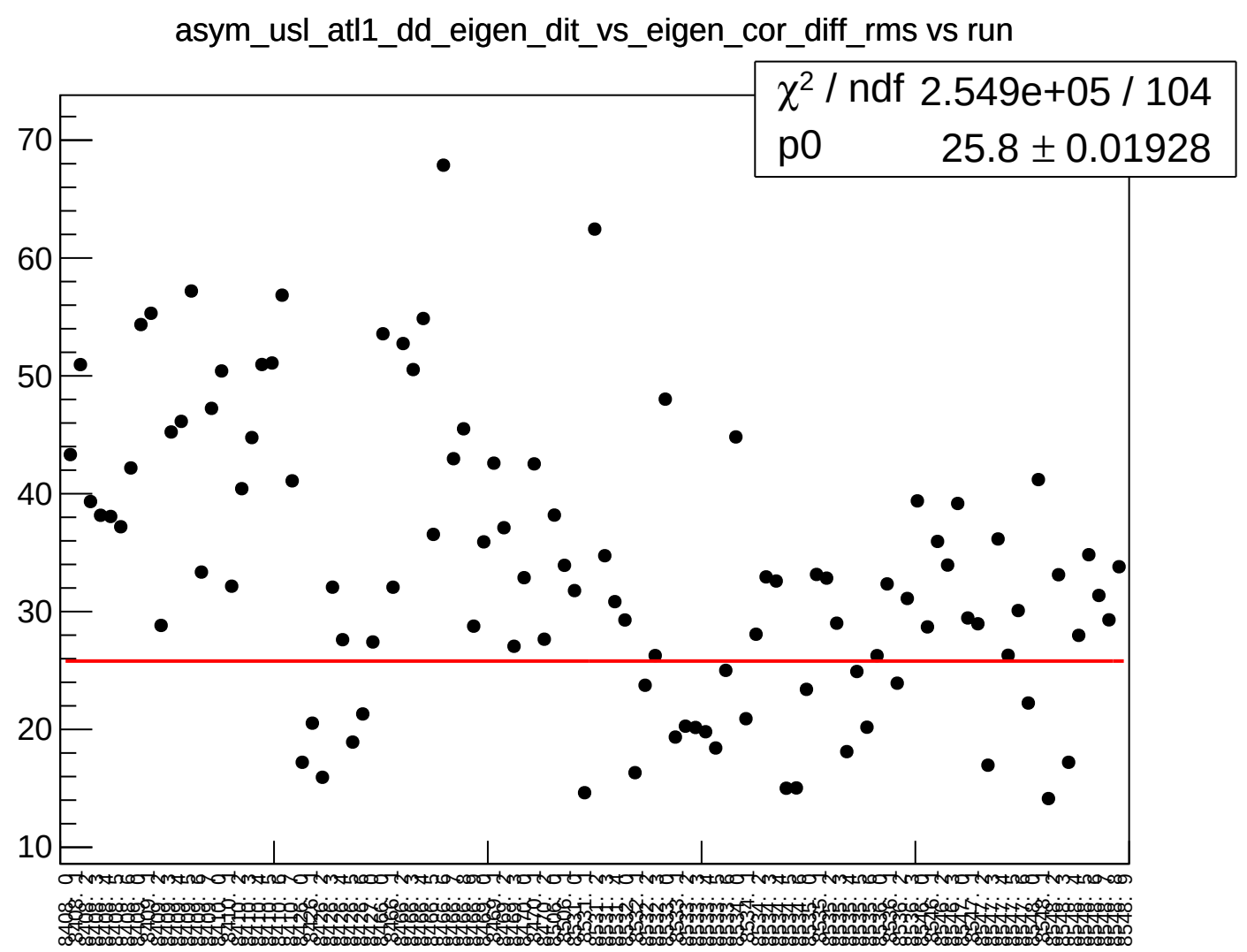

asym_usl_atl1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.263e+05 / 104
p0 0.0004648 ± 3.652e−07
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004

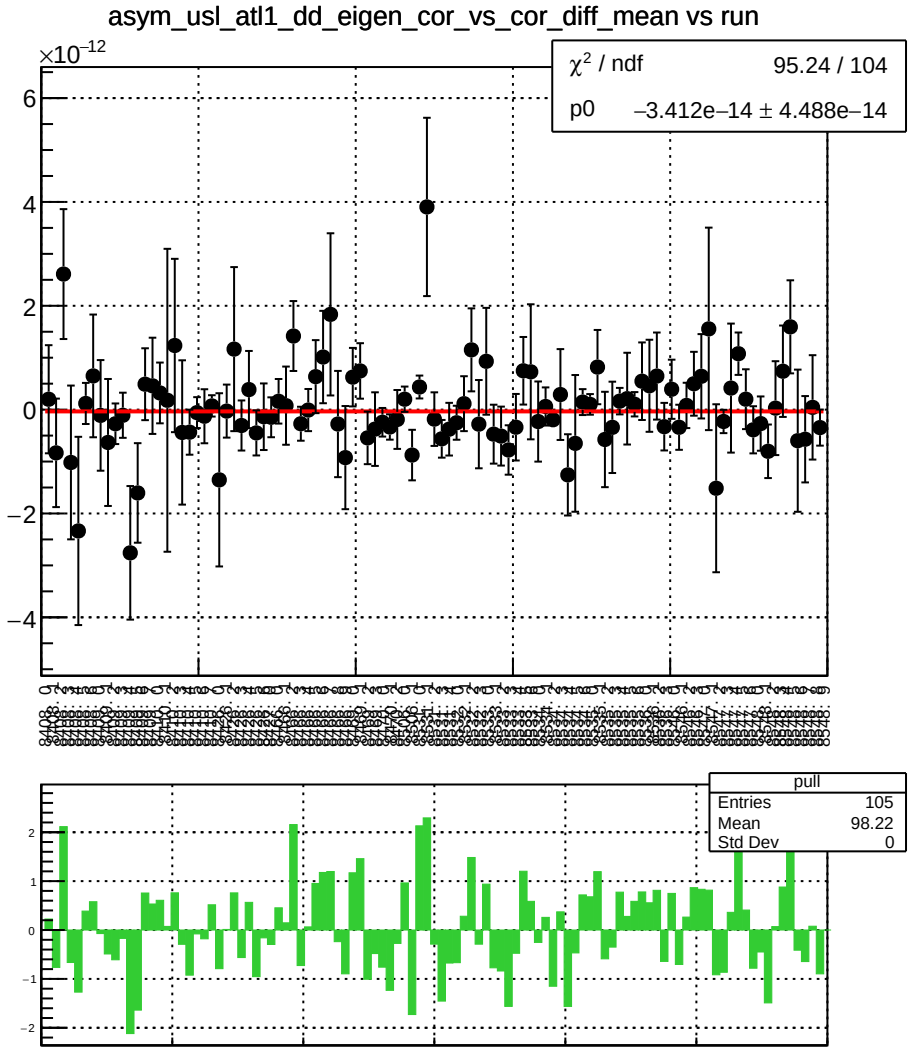

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 81.6 / 104
p0 −0.02976 ± 0.02726
pull
Entries 105
Mean 40.93
Std Dev 32.59
pull1D
Entries 105
Mean 0.06504
Std Dev 0.8792

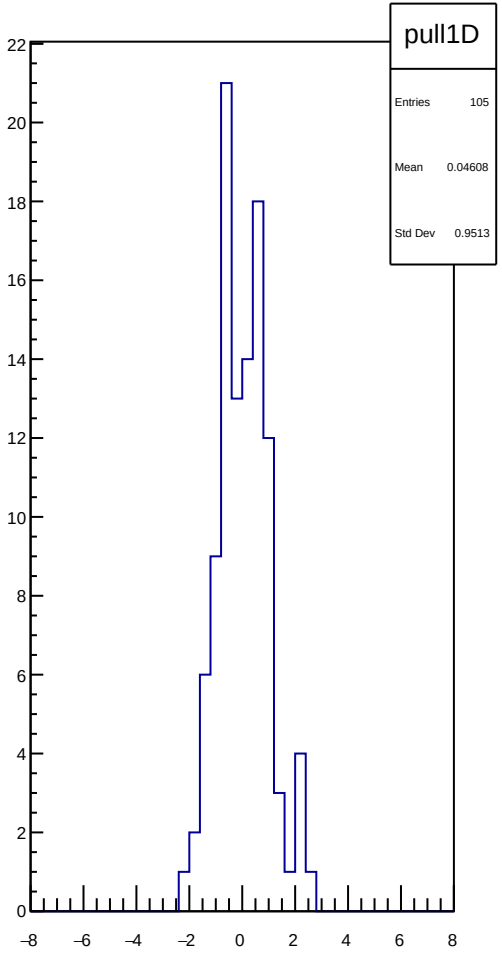

asym_usl_atl1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.549e+05 / 104
p0 25.8 ± 0.01928
70
60
50
40
30
20
10

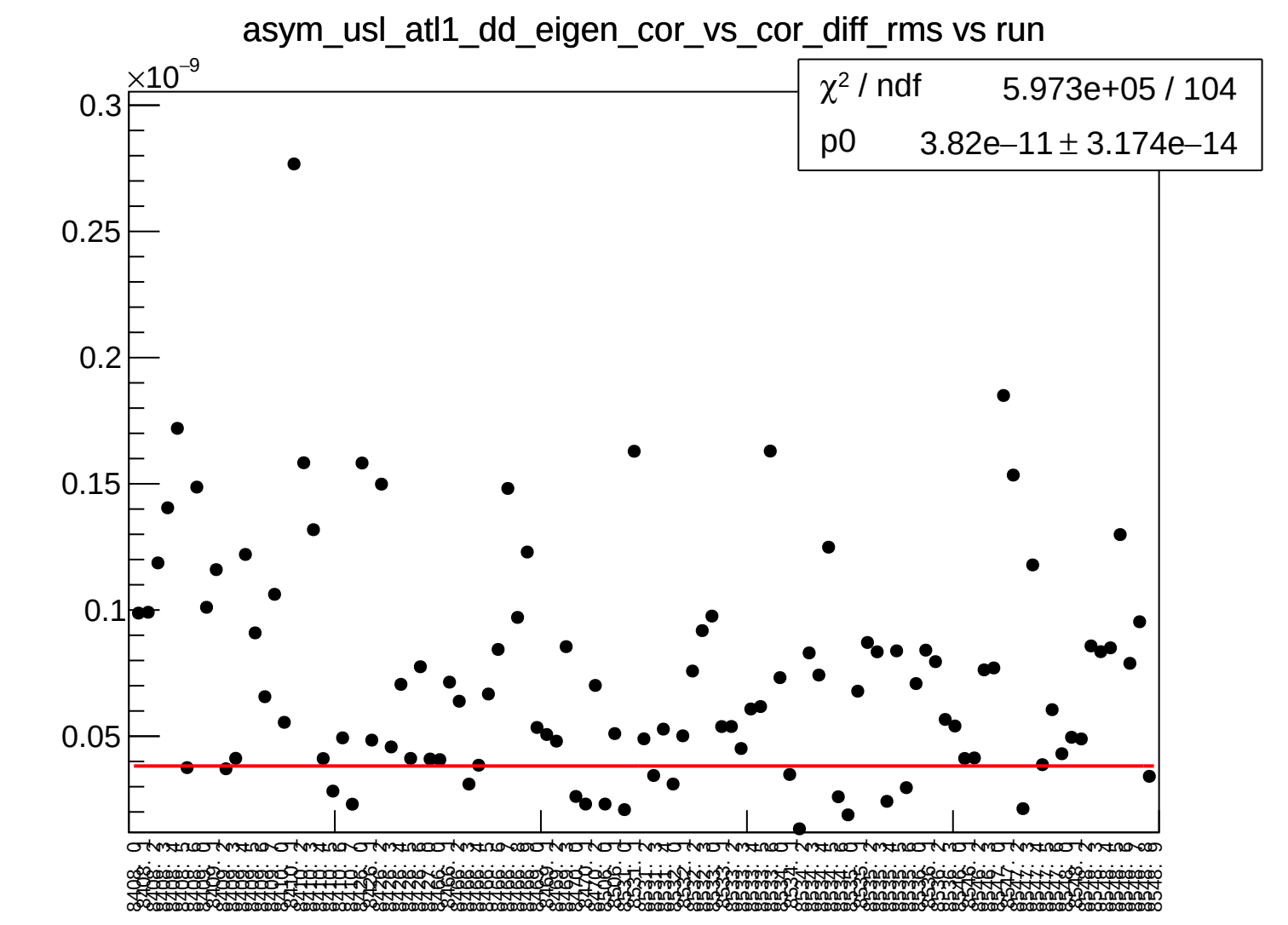

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 81.6 / 104
p0 −0.02976 ± 0.02726
pull
Entries 105
Mean 40.93
Std Dev 32.59

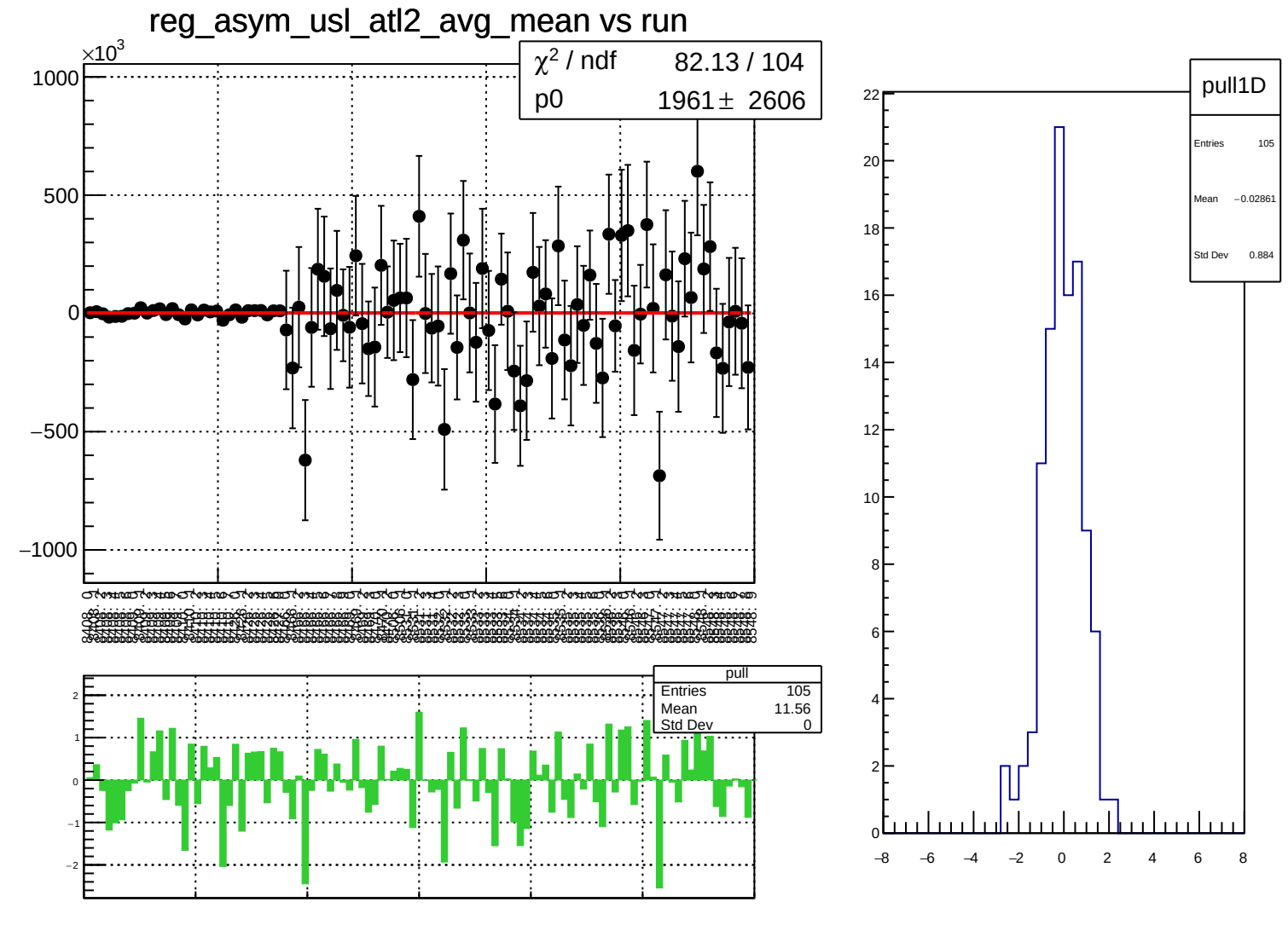

pull1D
Entries 105
Mean 0.06504
Std Dev 0.8792

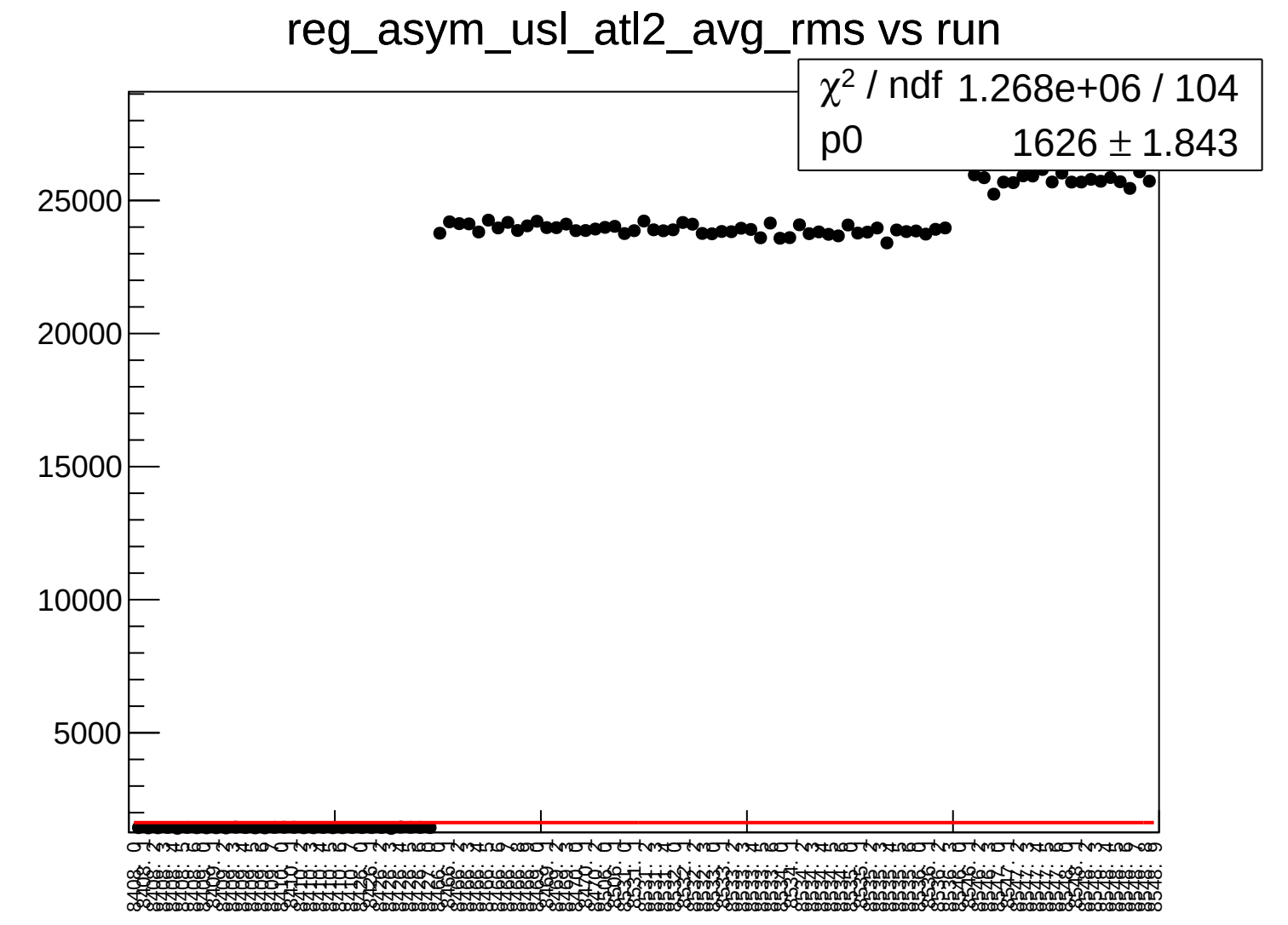

asym_usl_atl1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.549e+05 / 104
p0 25.8 ± 0.01928
70
60
50
40
30
20
10

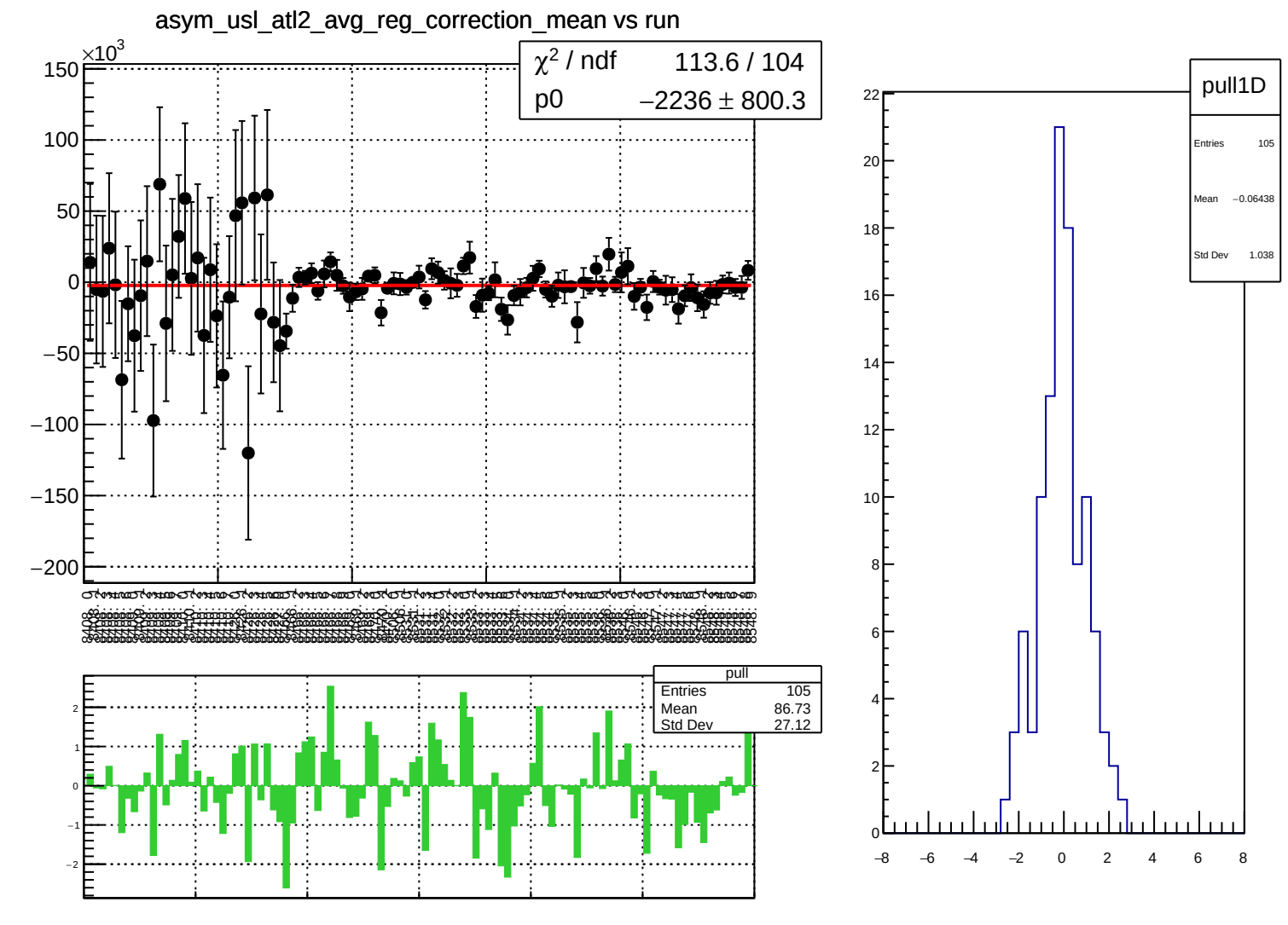

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.24 / 104
p0 −3.412e−14 ± 4.488e−14
pull
Entries 105
Mean 98.22
Std Dev 0

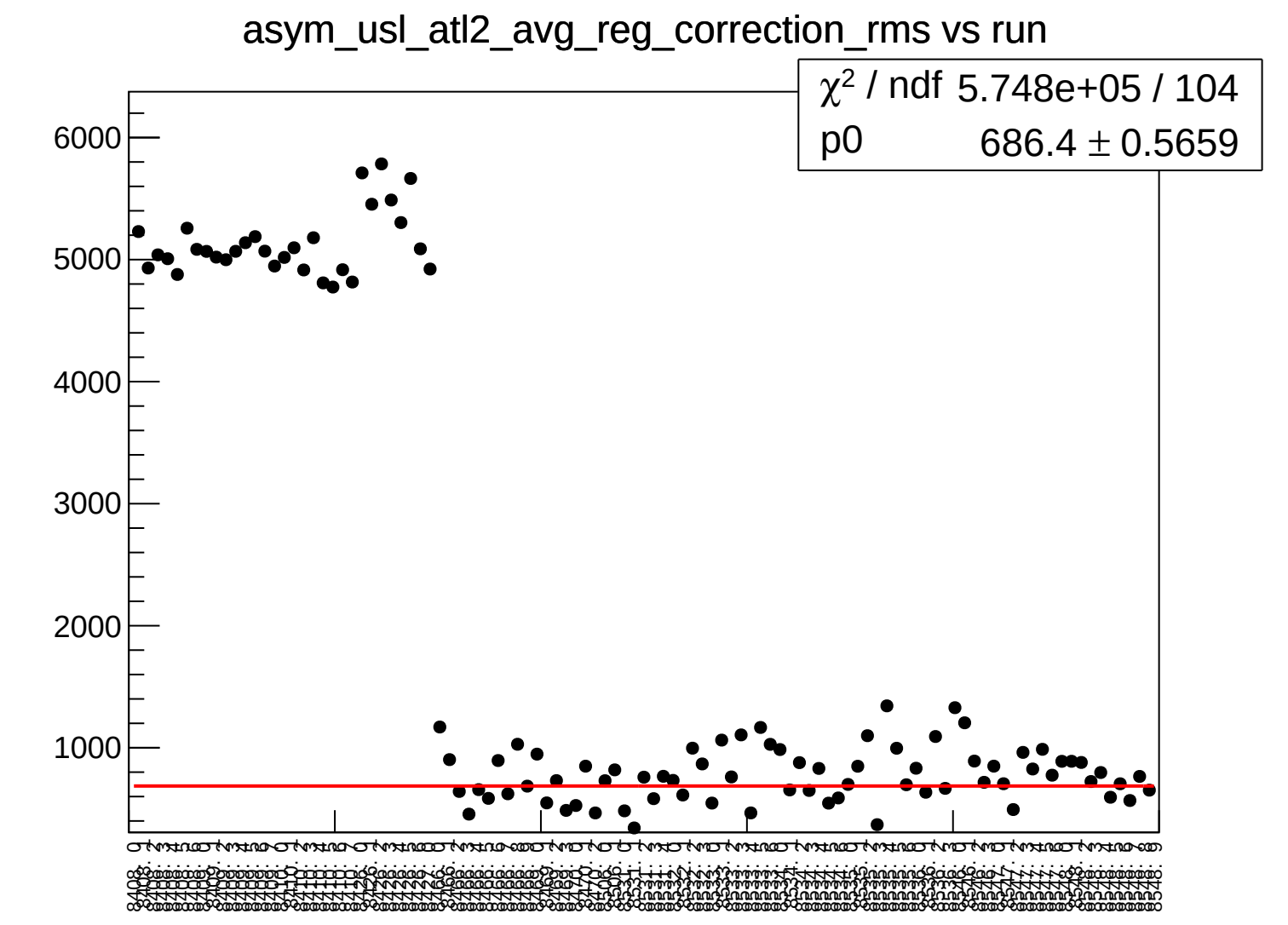

pull1D
Entries 105
Mean 0.04608
Std Dev 0.9513

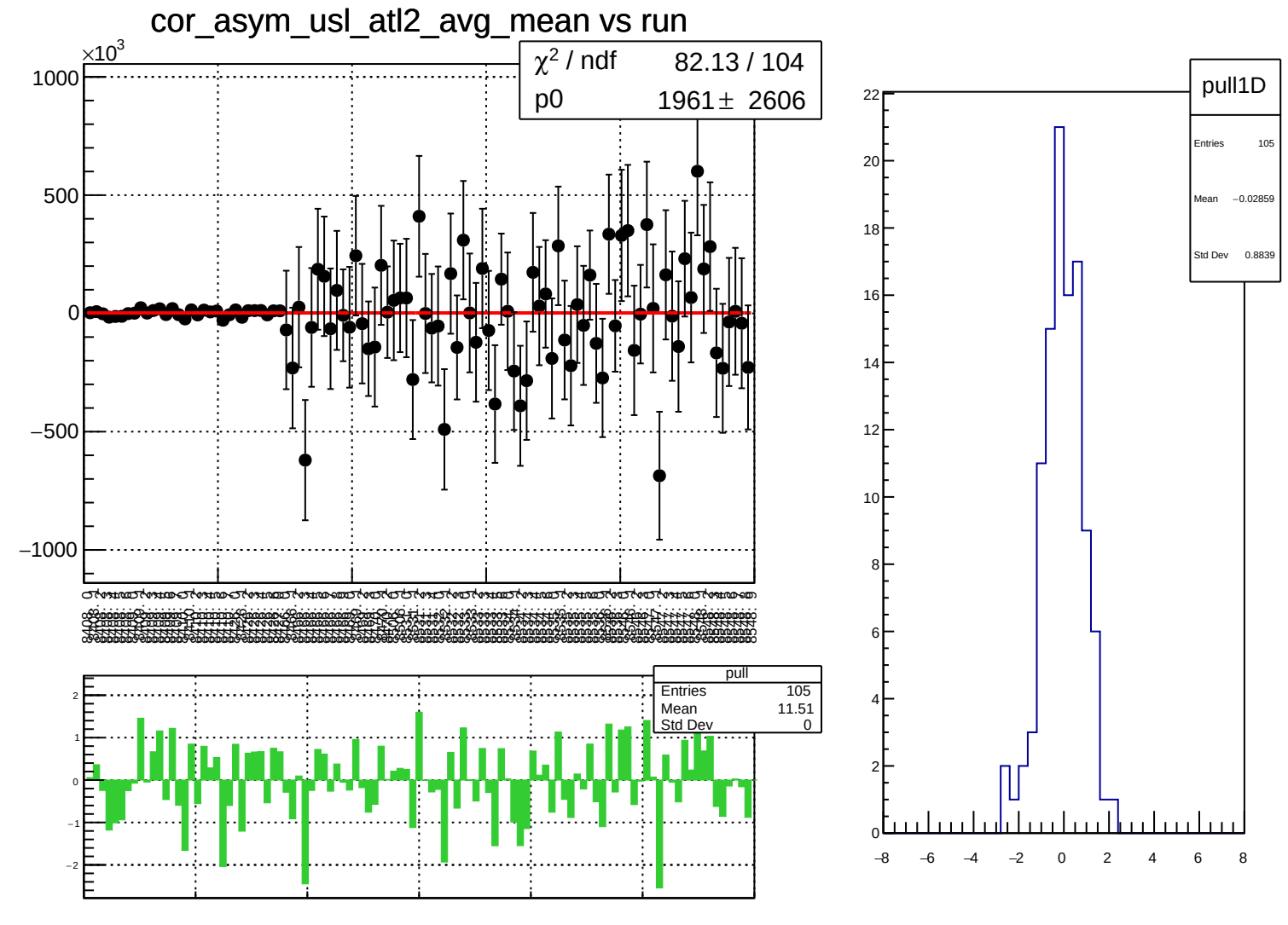

asym_usl_atl1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.973e+05 / 104
p0 3.82e−11 ± 3.174e−14
0.3
0.25
0.2
0.15
0.1
0.05

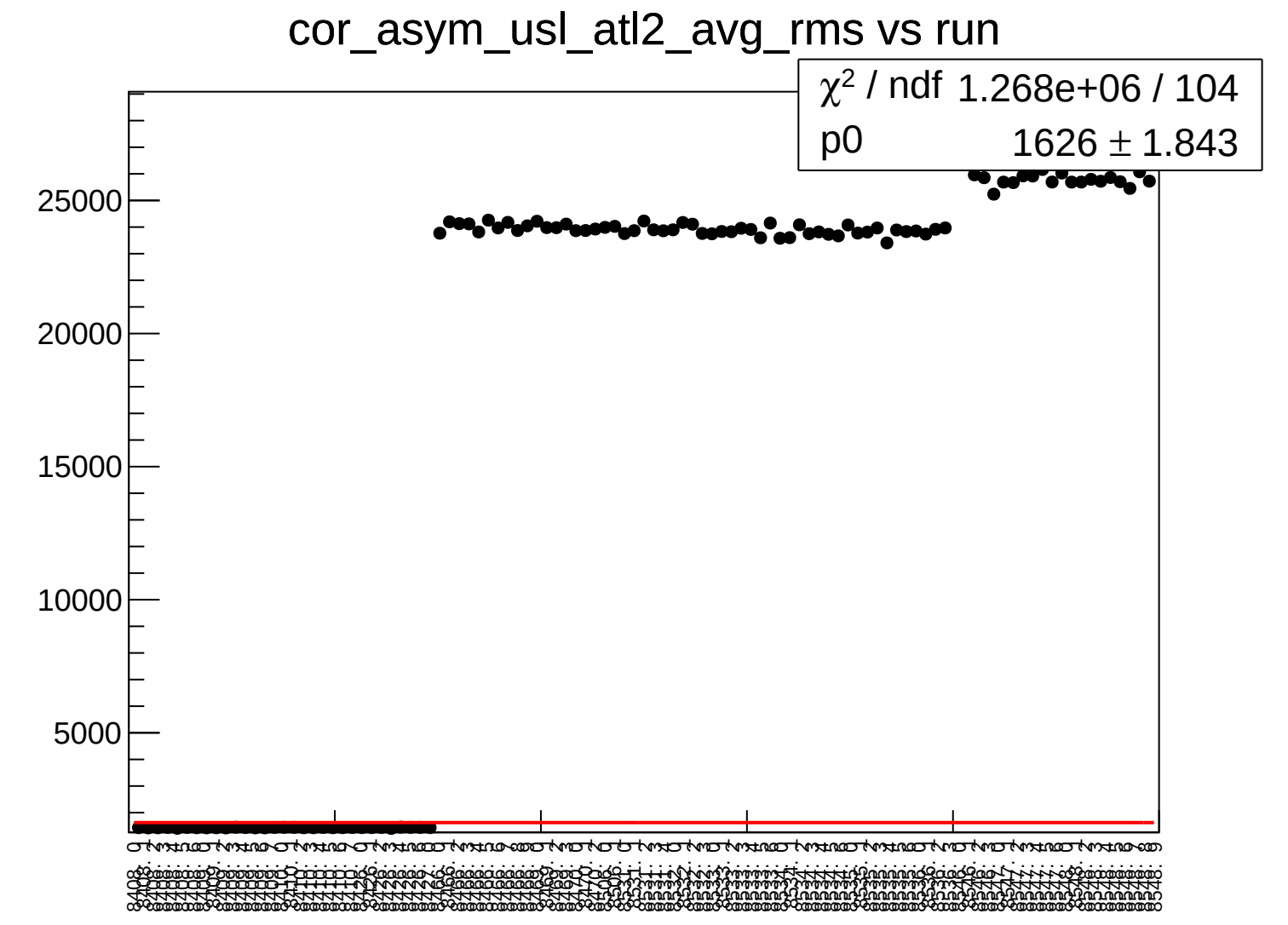

reg_asym_usl_atl2_avg_mean vs run
×10^3
χ^2 / ndf 82.13 / 104
p0 1961 ± 2606
1000
500
0
−500
−1000
pull
Entries 105
Mean 11.56
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.02861
Std Dev 0.884
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

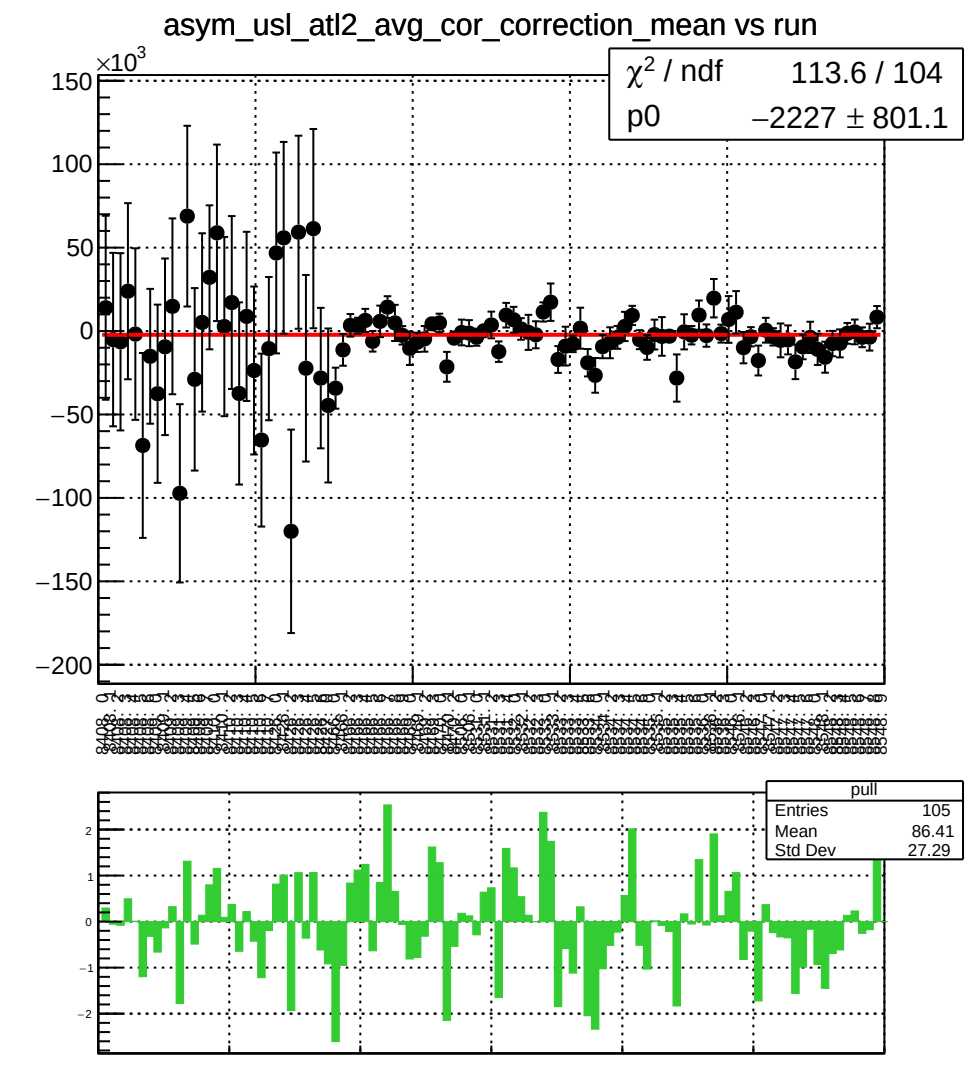

reg_asym_usl_atl2_avg_rms vs run
χ² / ndf 1.268e+06 / 104
p0 1626 ± 1.843
25000
20000
15000
10000
5000

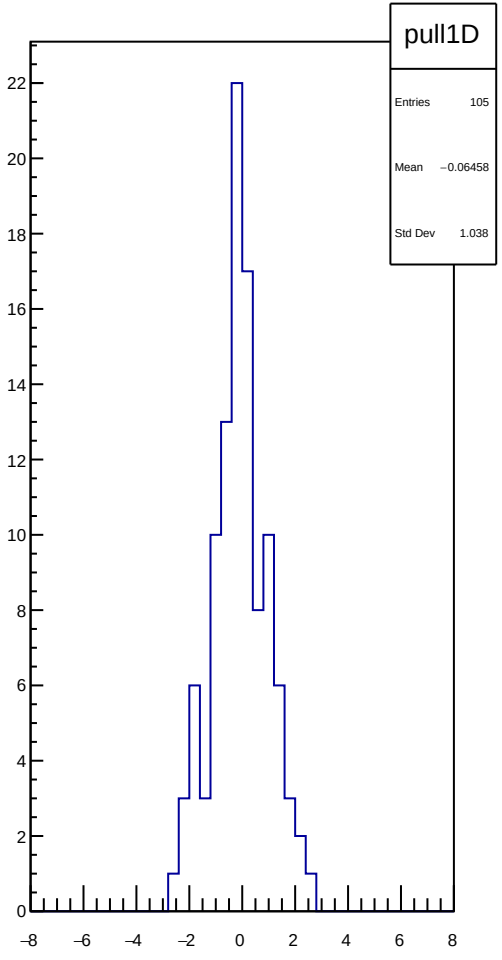

asym_usl_atl2_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 113.6 / 104
p0 −2236 ± 800.3
150
100
50
0
−50
−100
−150
−200
pull
Entries 105
Mean 86.73
Std Dev 27.12
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.06438
Std Dev 1.038
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

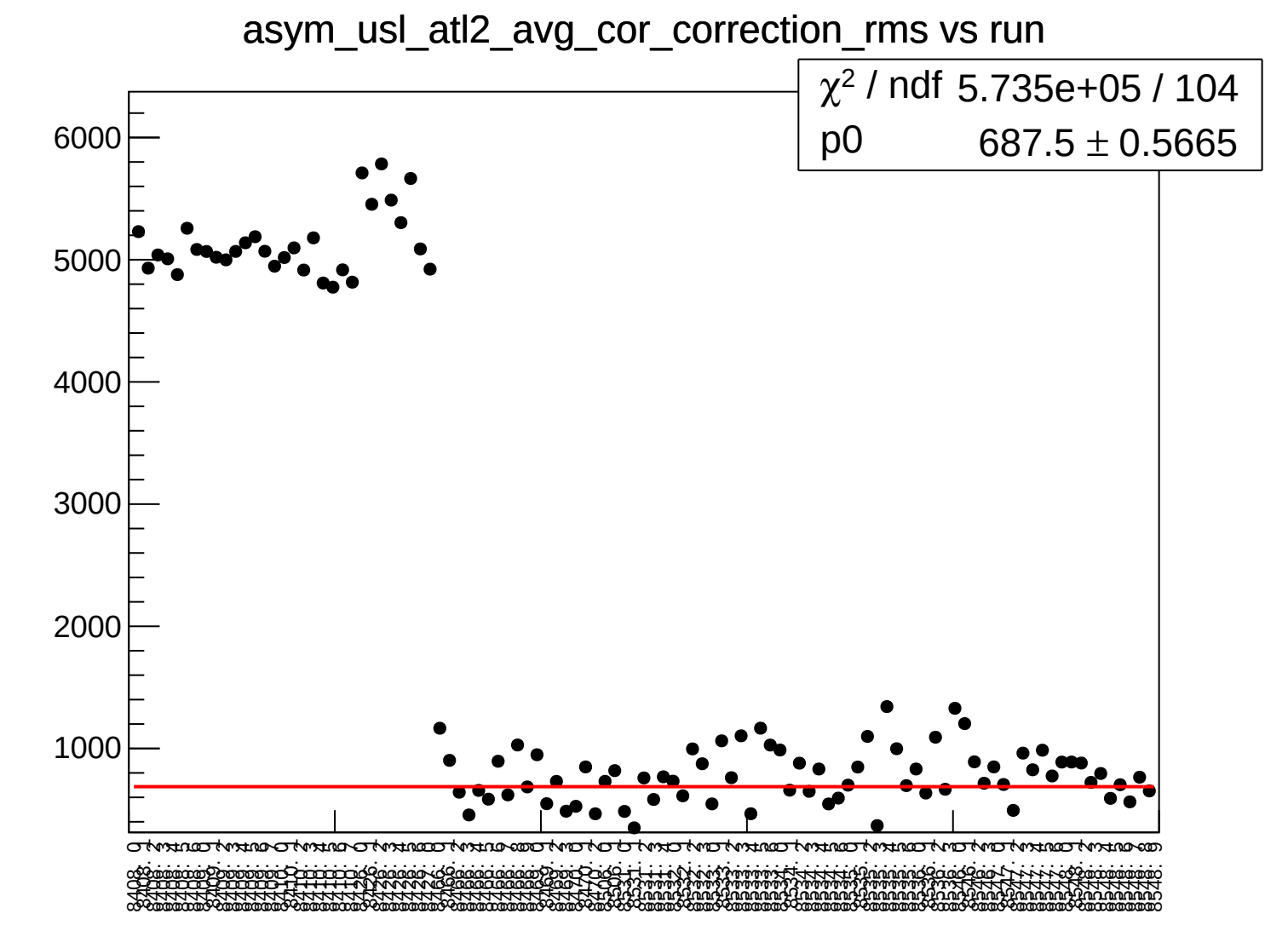

asym_usl_atl2_avg_reg_correction_rms vs run
χ² / ndf 5.748e+05 / 104
p0 686.4 ± 0.5659
6000
5000
4000
3000
2000
1000

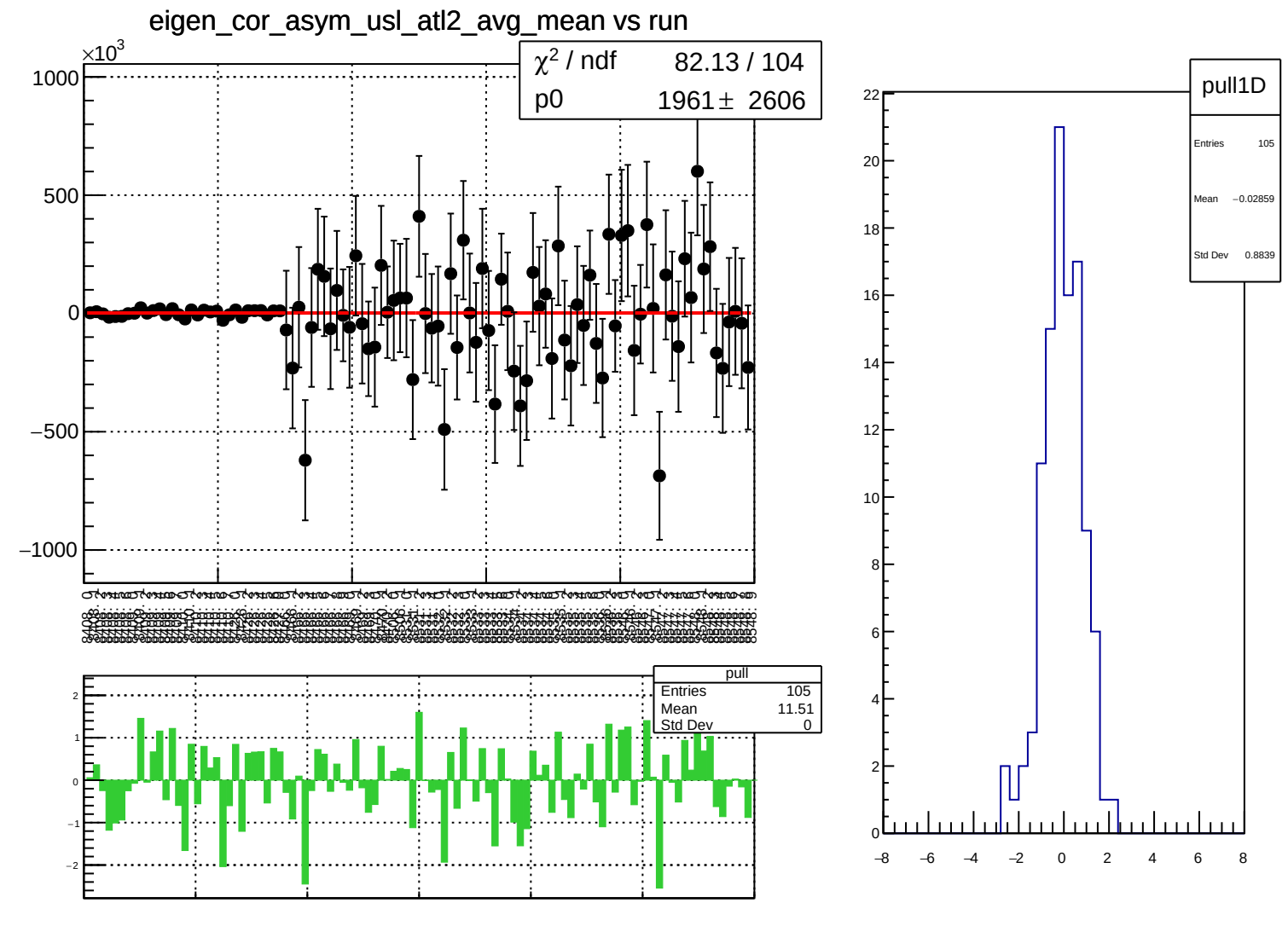

cor_asym_usl_atl2_avg_mean vs run
×10^3
1000
500
0
−500
−1000
χ^2 / ndf 82.13 / 104
p0 1961 ± 2606
pull
Entries 105
Mean 11.51
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.02859
Std Dev 0.8839
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

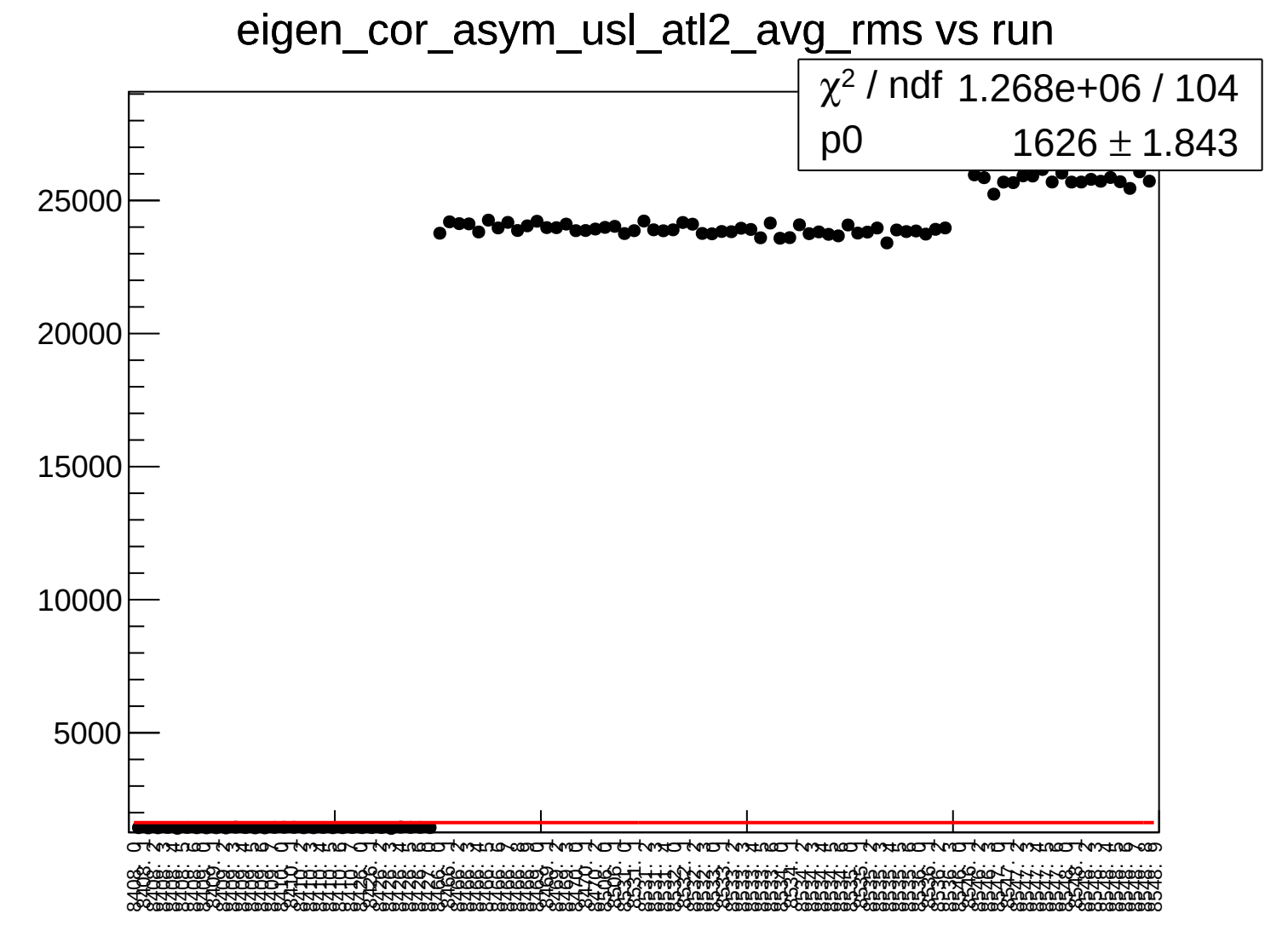

cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 1.268e+06 / 104
p0 1626 ± 1.843
25000
20000
15000
10000
5000

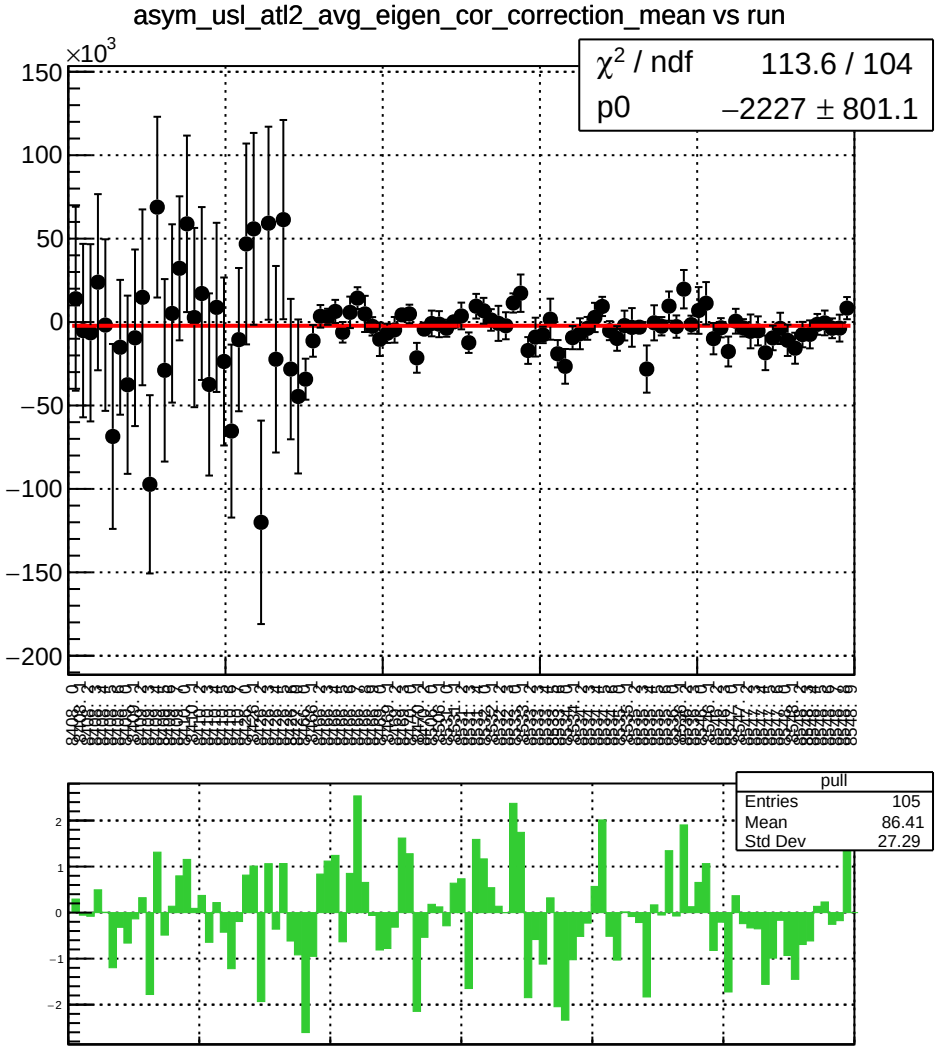

asym_usl_atl2_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 113.6 / 104
p0 −2227 ± 801.1
150
100
50
0
−50
−100
−150
−200
pull
Entries 105
Mean 86.41
Std Dev 27.29
2
1
0
−1
−2

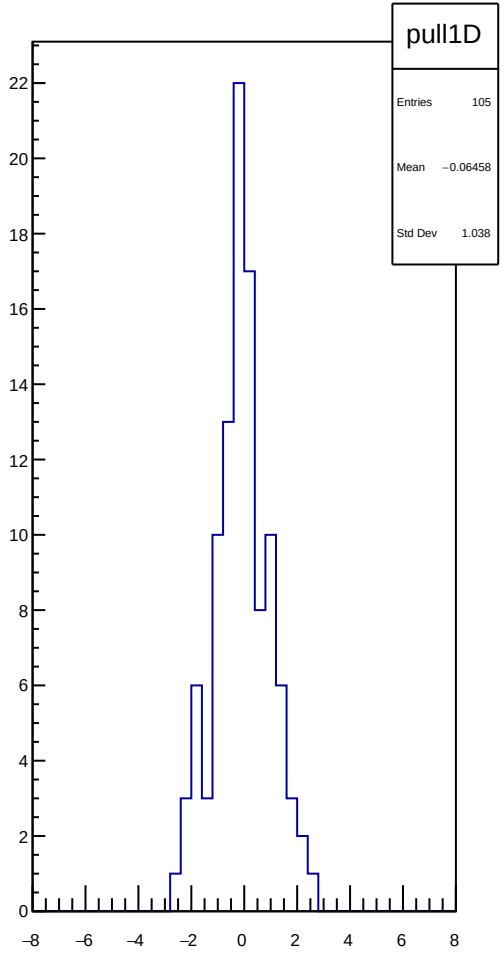

pull1D
Entries 105
Mean −0.06458
Std Dev 1.038
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

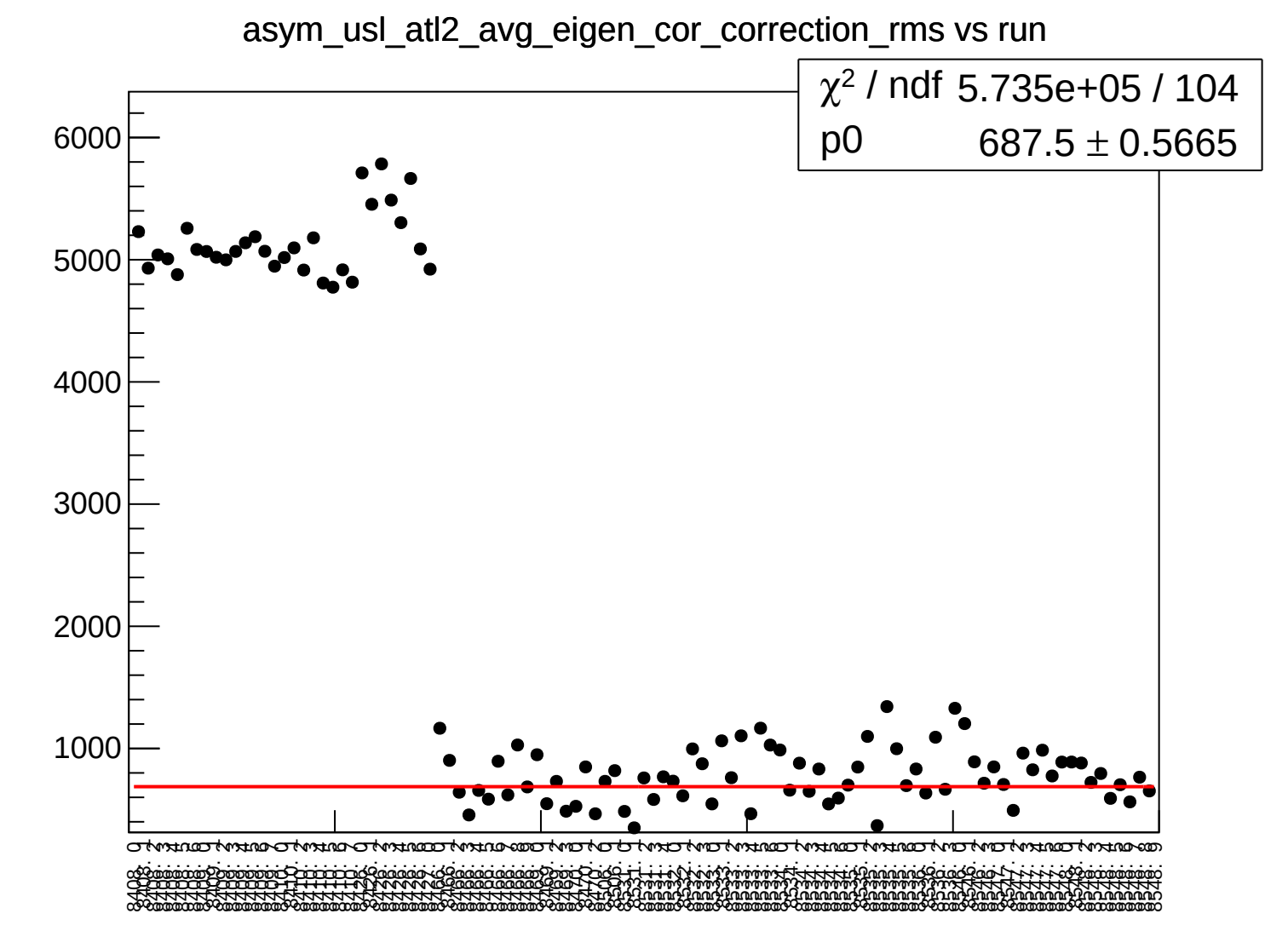

asym_usl_atl2_avg_cor_correction_rms vs run
χ² / ndf 5.735e+05 / 104
p0 687.5 ± 0.5665
6000
5000
4000
3000
2000
1000

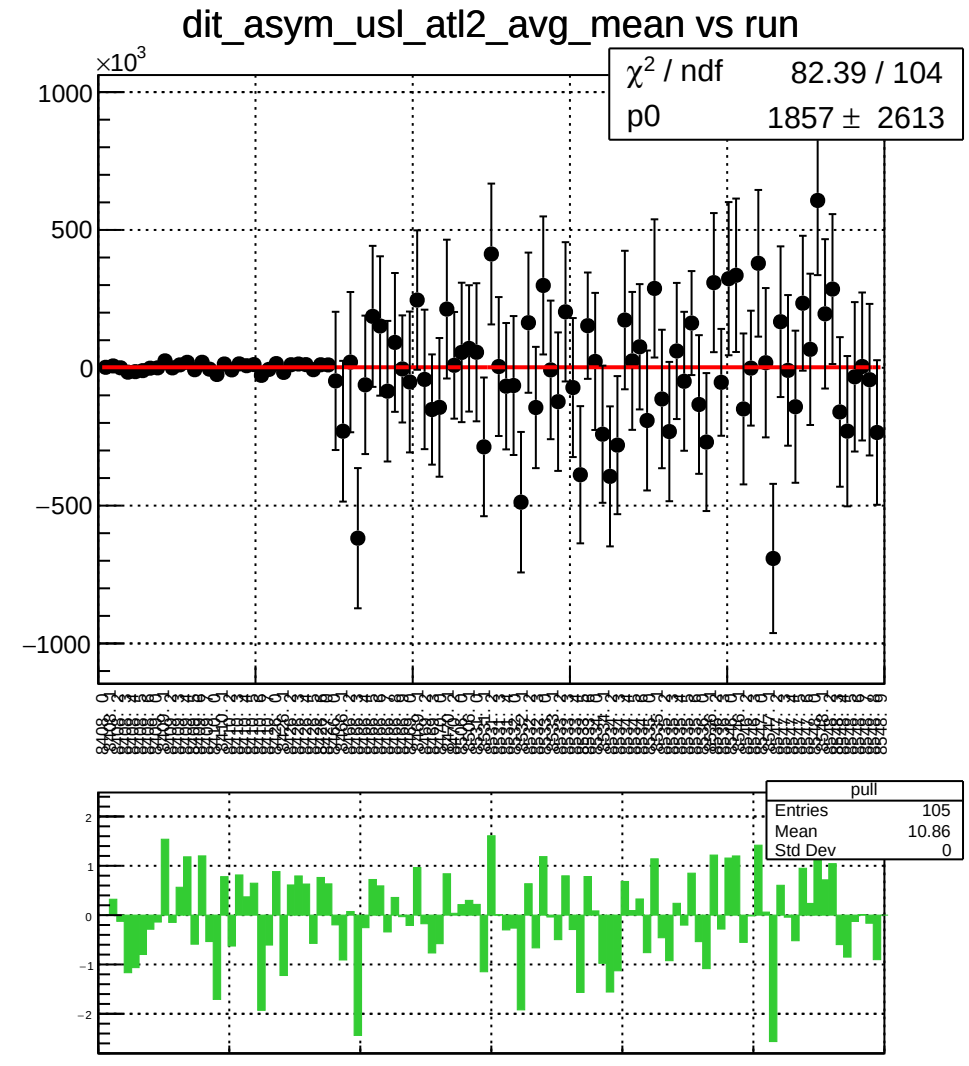

eigen_cor_asym_usl_atl2_avg_mean vs run
×10^3
1000
500
0
−500
−1000
χ² / ndf 82.13 / 104
p0 1961 ± 2606
pull
Entries 105
Mean 11.51
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.02859
Std Dev 0.8839
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

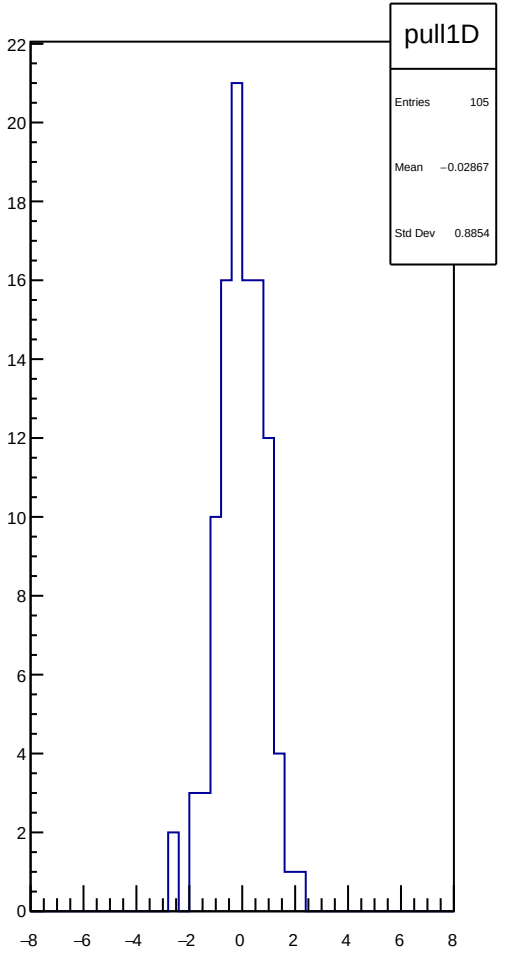

eigen_cor_asym_usl_atl2_avg_rms vs run
χ² / ndf 1.268e+06 / 104
p0 1626 ± 1.843
25000
20000
15000
10000
5000

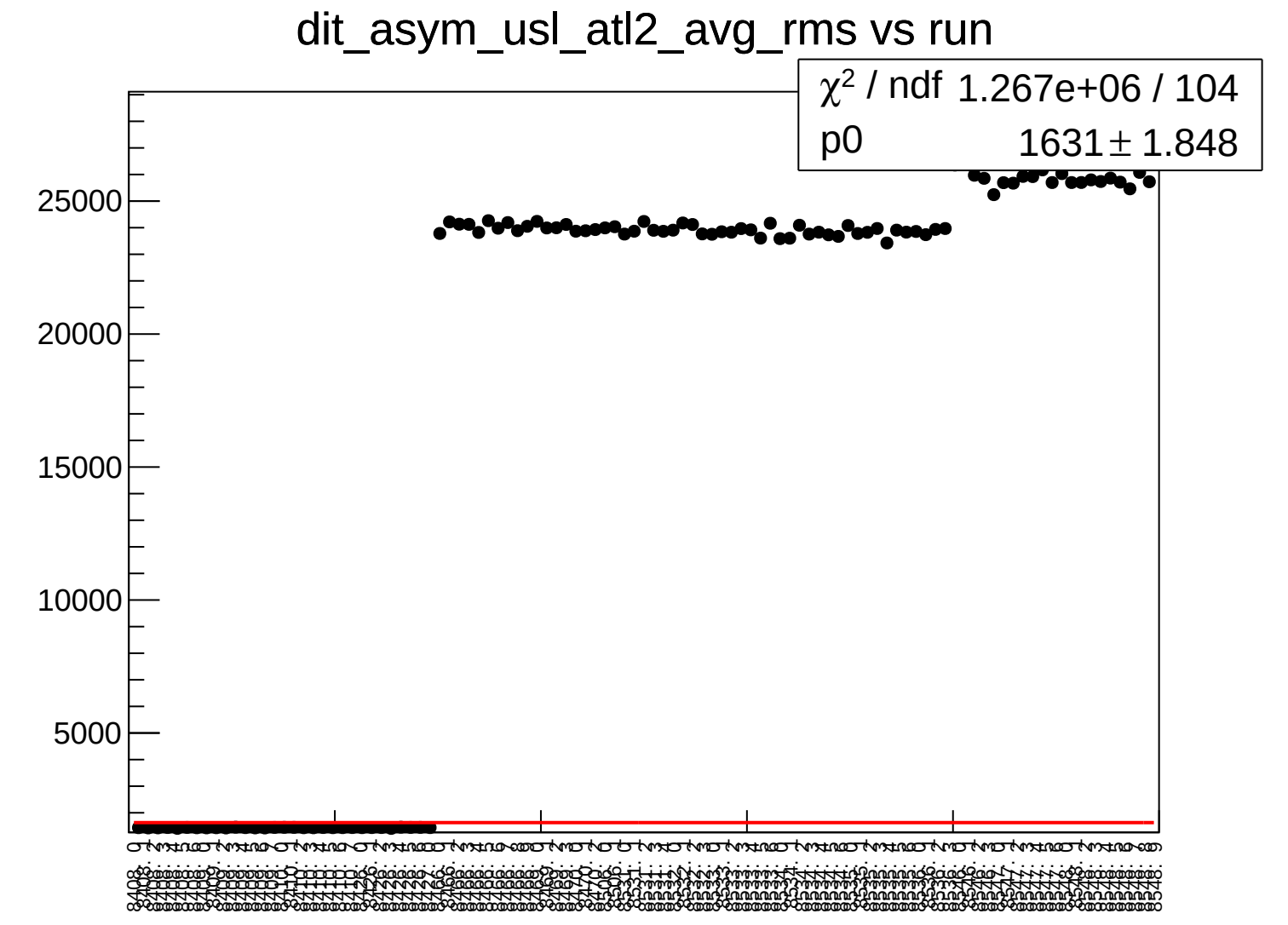

asym_usl_atl2_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 113.6 / 104
p0 −2227 ± 801.1
150
100
50
0
−50
−100
−150
−200
pull
Entries 105
Mean 86.41
Std Dev 27.29
2
1
0
−1
−2

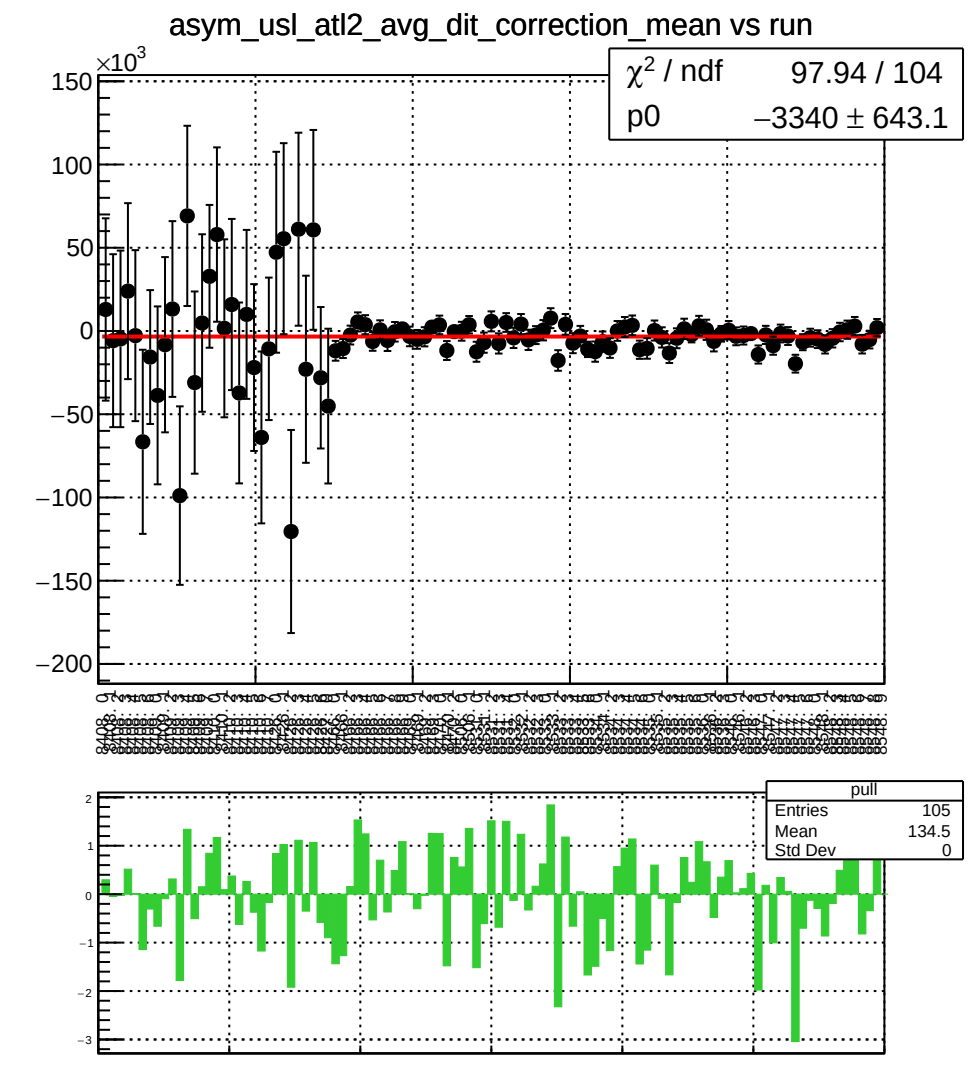

pull1D
Entries 105
Mean −0.06458
Std Dev 1.038
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

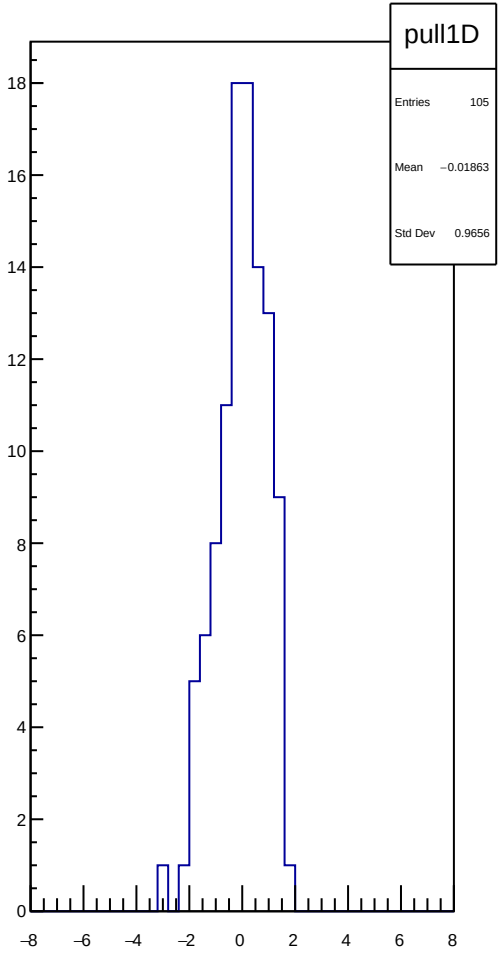

asym_usl_atl2_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 5.735e+05 / 104
p0 687.5 ± 0.5665
6000
5000
4000
3000
2000
1000

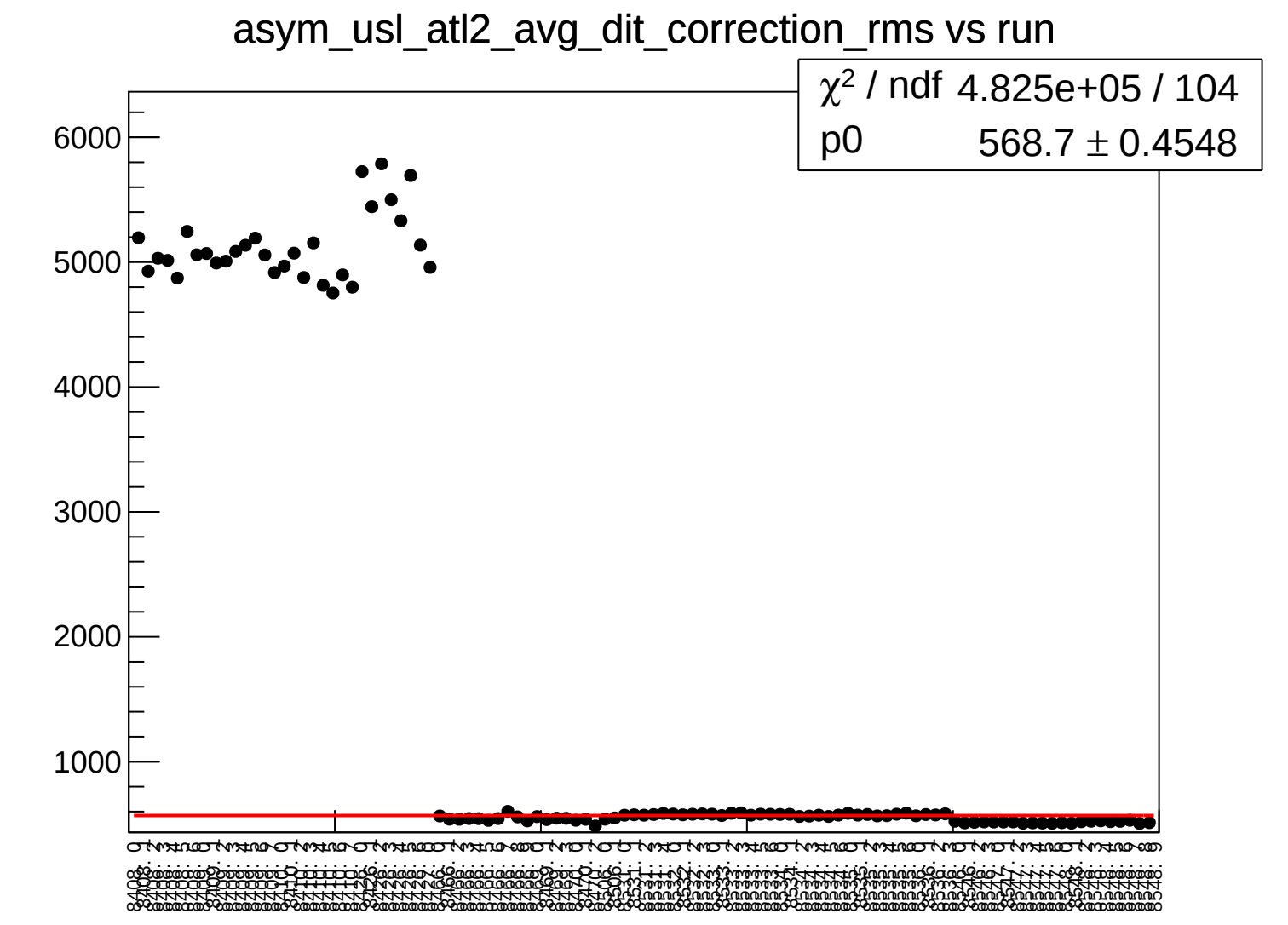

dit_asym_usl_atl2_avg_mean vs run
×10^3
1000
500
0
−500
−1000
χ² / ndf 82.39 / 104
p0 1857 ± 2613
pull
Entries 105
Mean 10.86
Std Dev 0
2
1
0
−1
−2

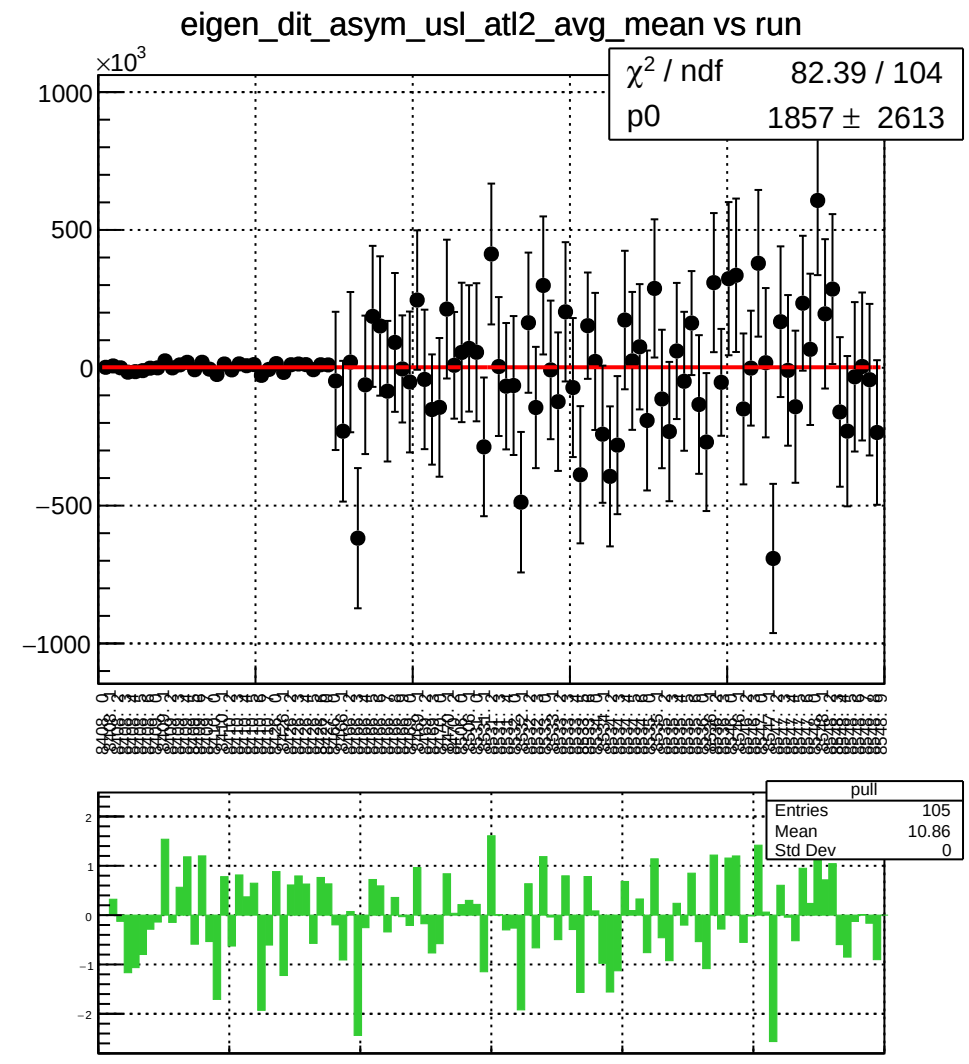

pull1D
Entries 105
Mean −0.02867
Std Dev 0.8854
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

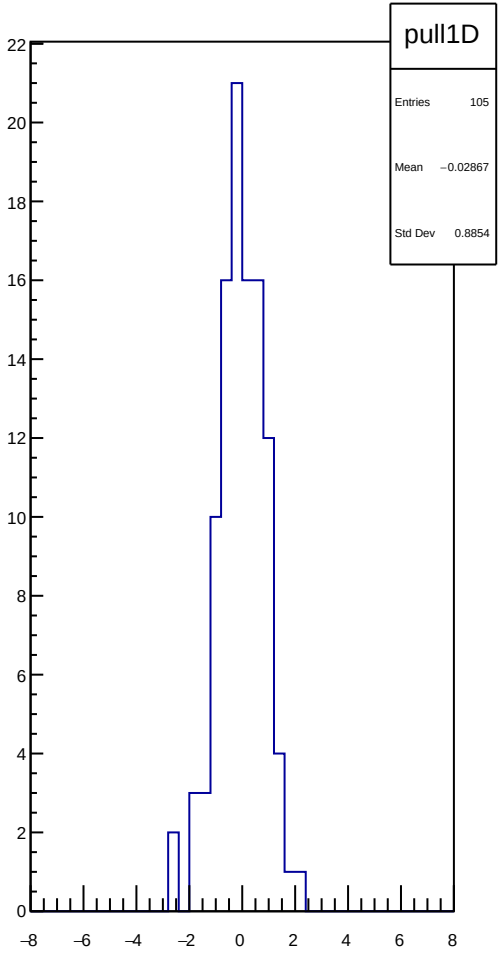

dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 1.267e+06 / 104
p0 1631 ± 1.848
25000
20000
15000
10000
5000

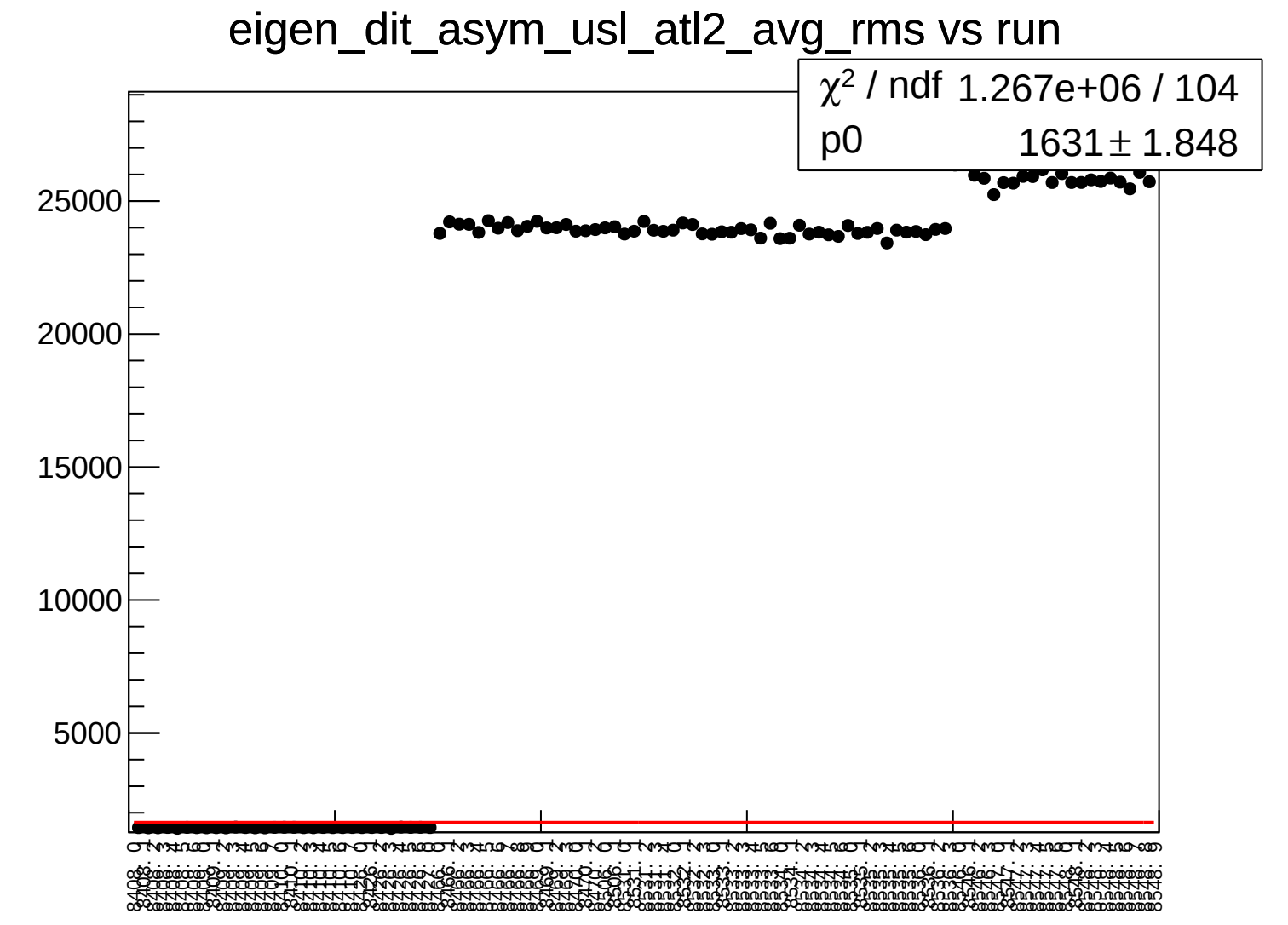

asym_usl_atl2_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 97.94 / 104
p0 −3340 ± 643.1
150
100
50
0
−50
−100
−150
−200
pull
Entries 105
Mean 134.5
Std Dev 0
2
1
0
−1
−2
−3

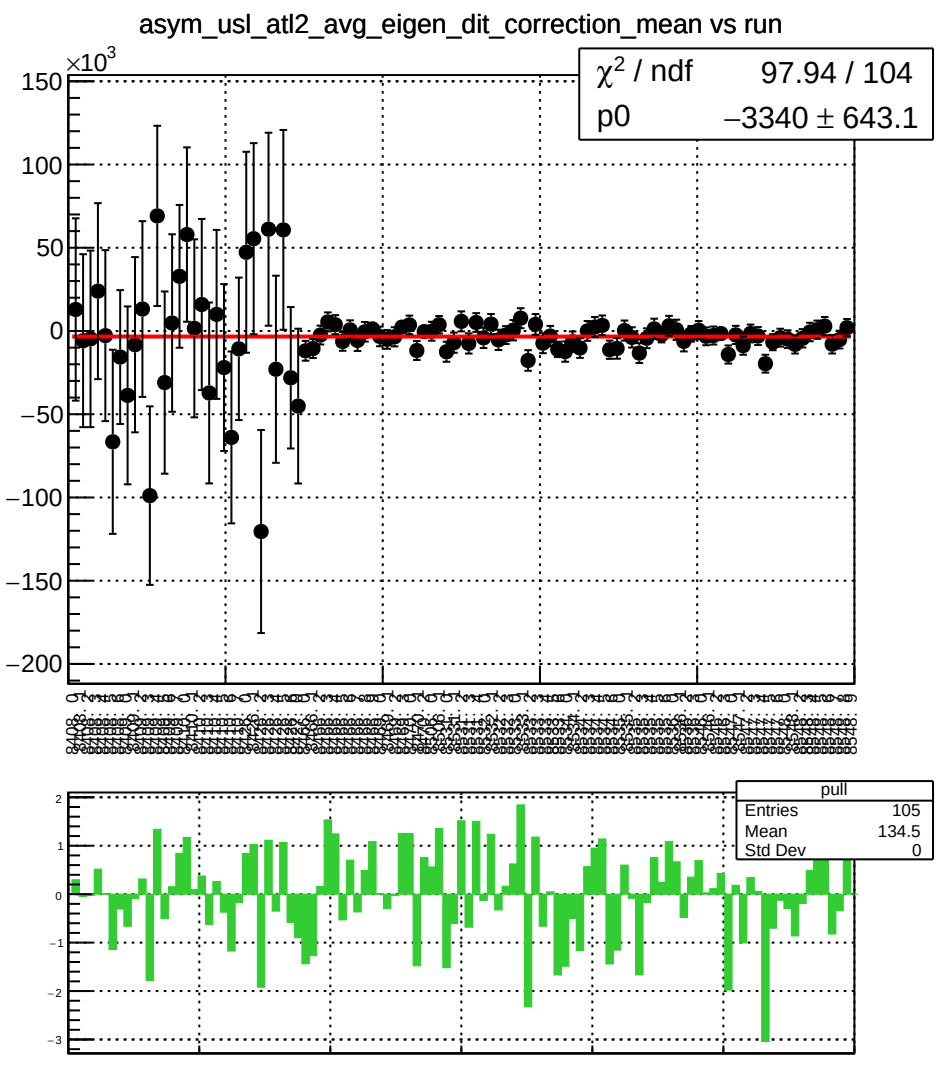

pull1D
Entries 105
Mean −0.01863
Std Dev 0.9656
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

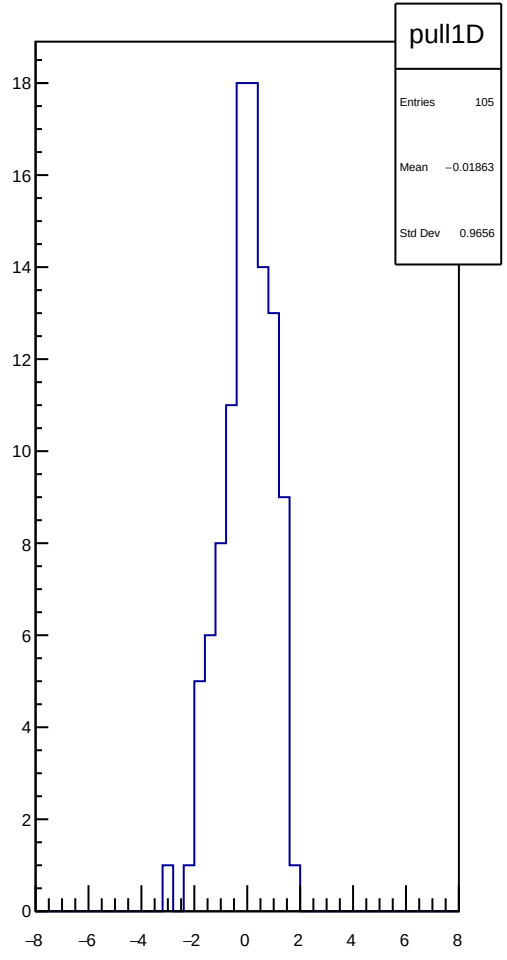

asym_usl_atl2_avg_dit_correction_rms vs run
χ² / ndf 4.825e+05 / 104
p0 568.7 ± 0.4548
6000
5000
4000
3000
2000
1000

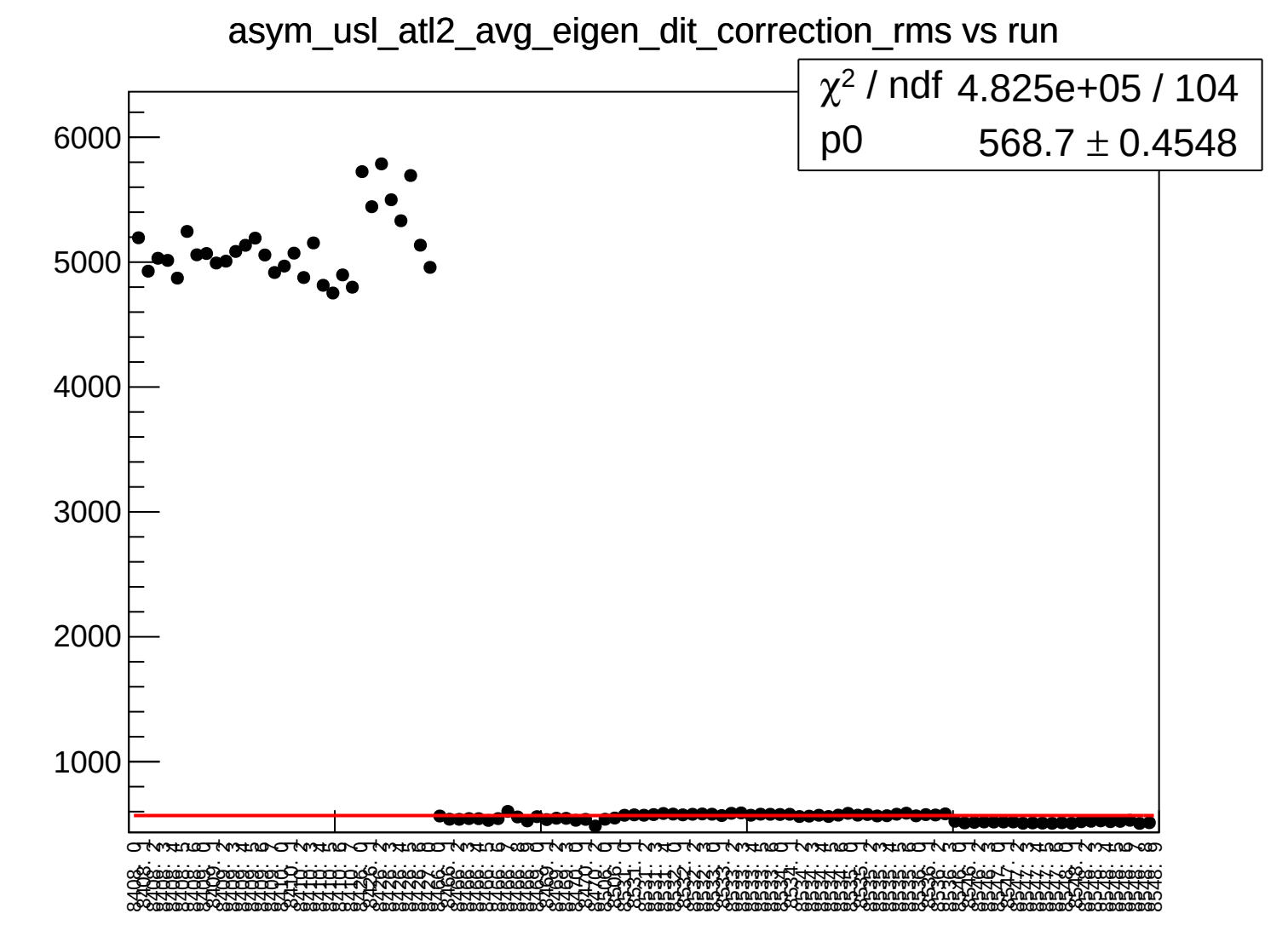

eigen_dit_asym_usl_atl2_avg_mean vs run
×10^3
χ^2 / ndf 82.39 / 104
p0 1857 ± 2613
1000
500
0
−500
−1000
pull
Entries 105
Mean 10.86
Std Dev 0
2
1
0
−1
−2

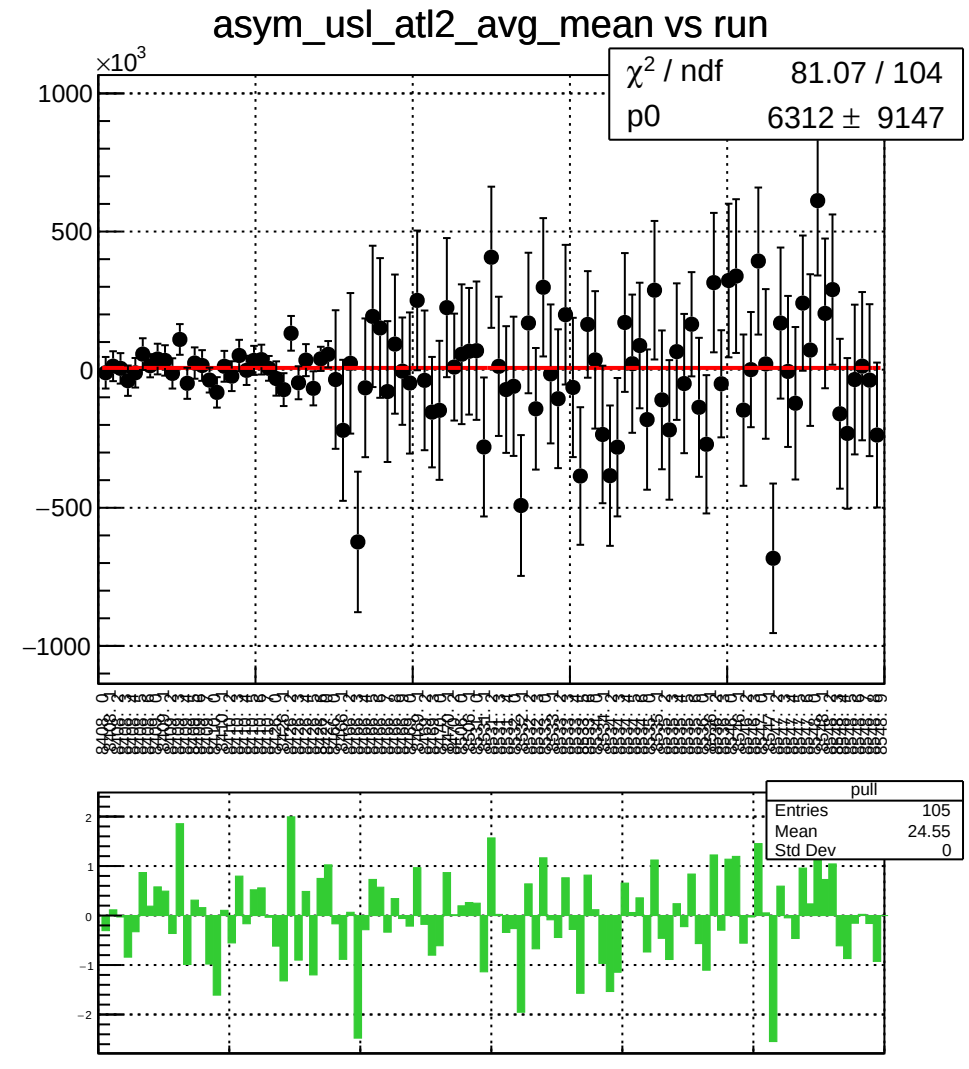

pull1D
Entries 105
Mean −0.02867
Std Dev 0.8854
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

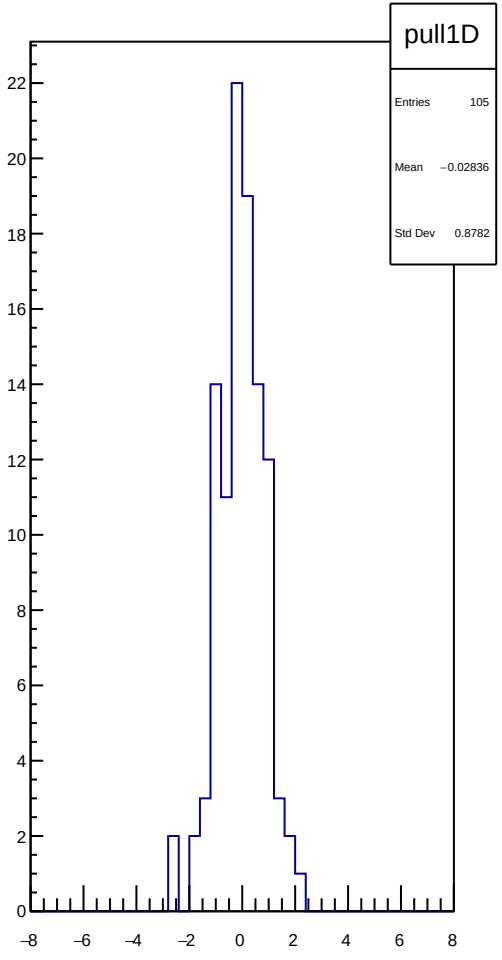

eigen_dit_asym_usl_atl2_avg_rms vs run
χ² / ndf 1.267e+06 / 104
p0 1631 ± 1.848
25000
20000
15000
10000
5000

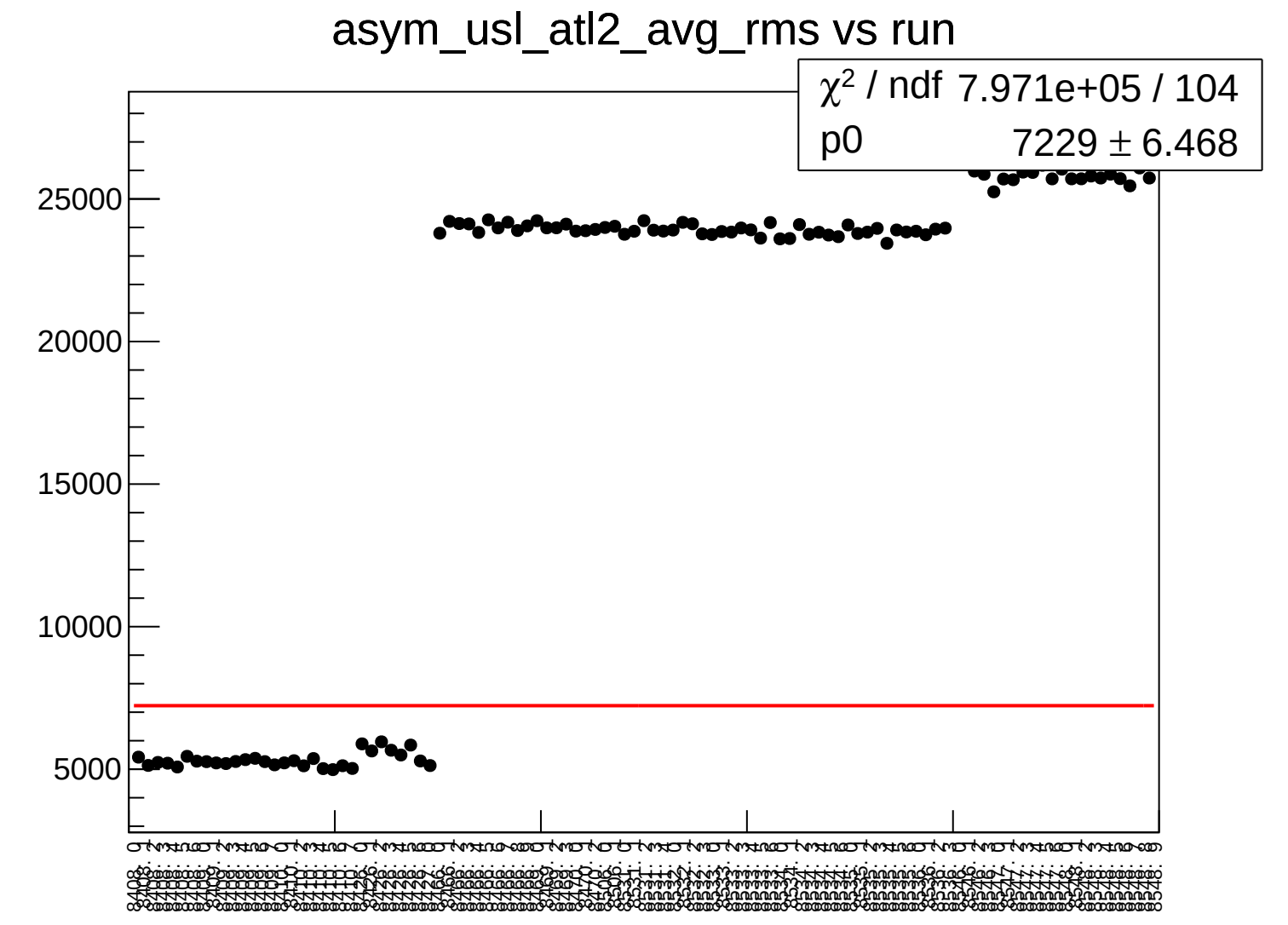

asym_usl_atl2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 97.94 / 104
p0 −3340 ± 643.1
150
100
50
0
−50
−100
−150
−200
pull
Entries 105
Mean 134.5
Std Dev 0
2
1
0
−1
−2
−3

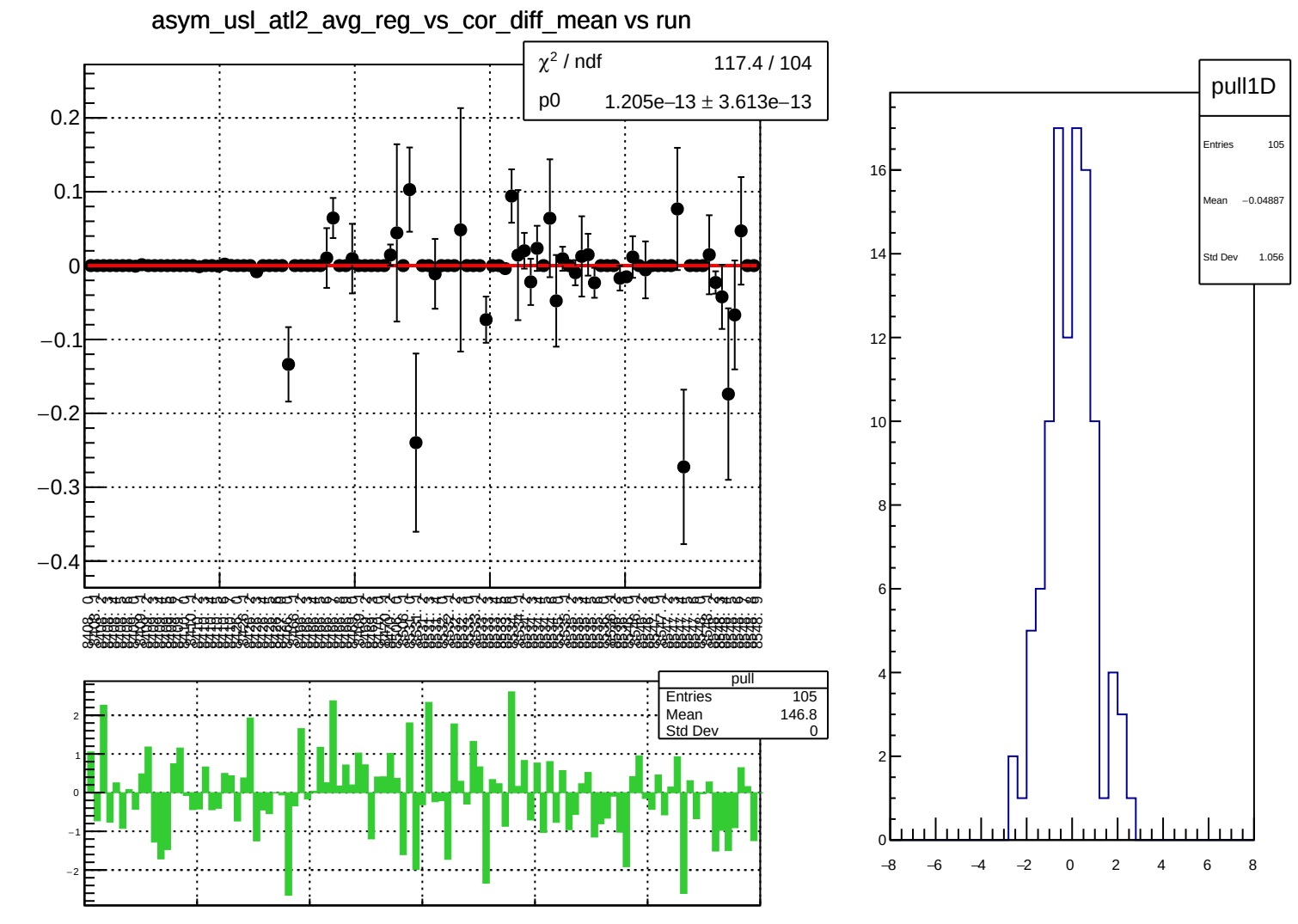

pull1D
Entries 105
Mean −0.01863
Std Dev 0.9656
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

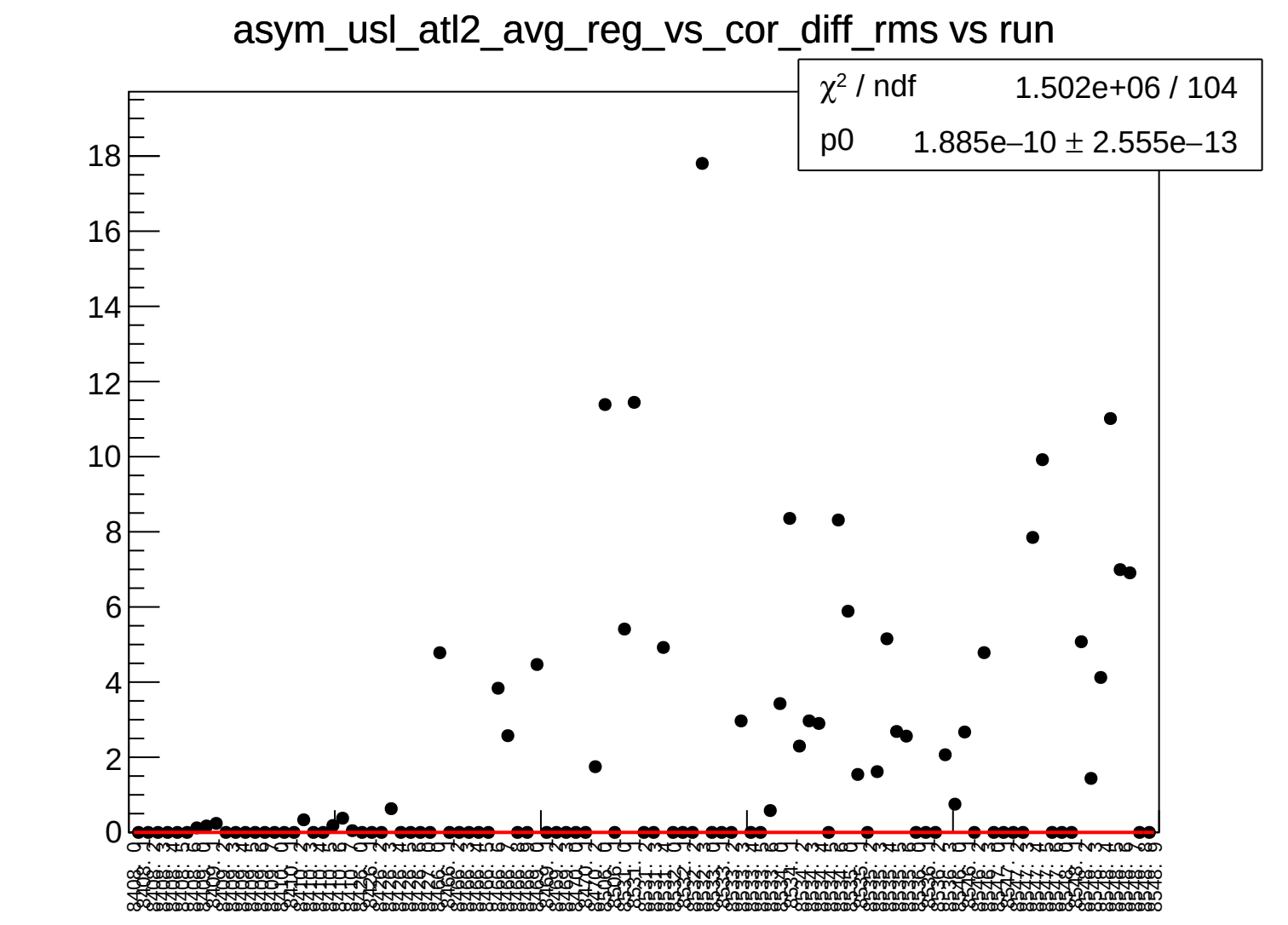

asym_usl_atl2_avg_eigen_dit_correction_rms vs run
χ² / ndf 4.825e+05 / 104
p0 568.7 ± 0.4548
6000
5000
4000
3000
2000
1000

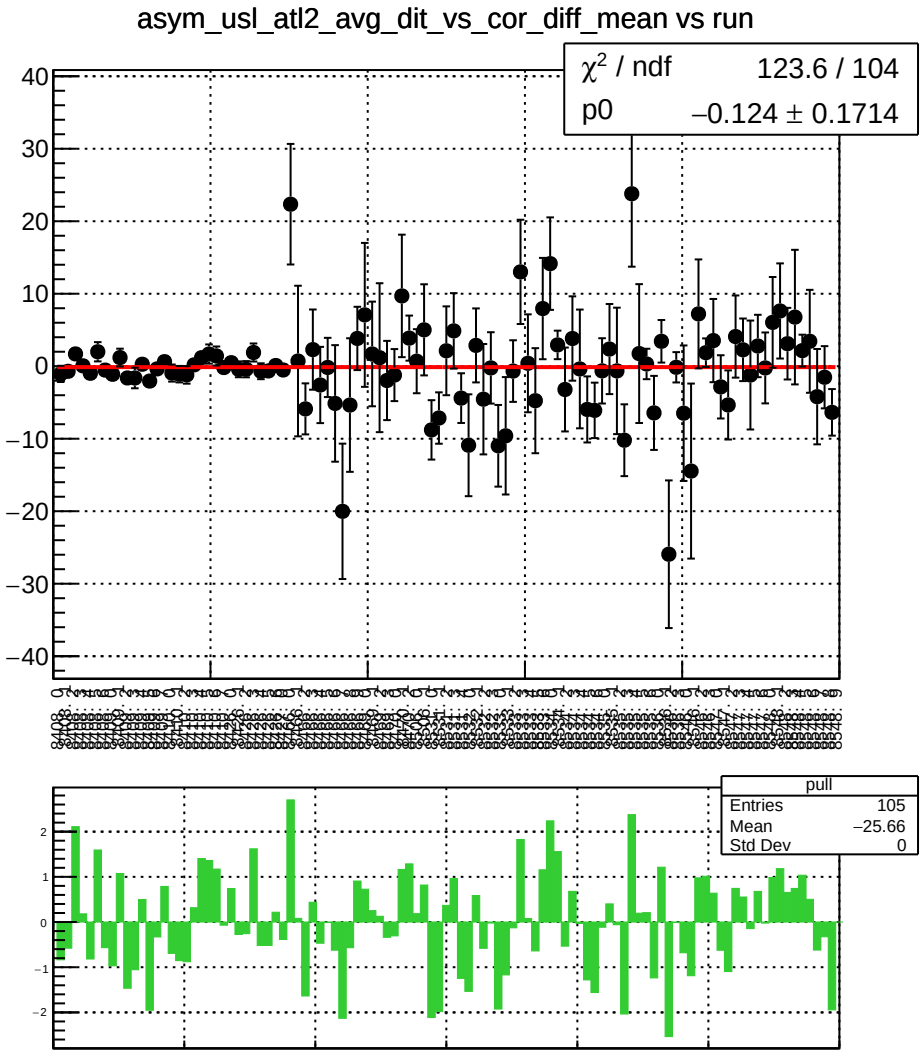

asym_usl_atl2_avg_mean vs run
×10^3
χ^2 / ndf 81.07 / 104
p0 6312 ± 9147
1000
500
0
−500
−1000
pull
Entries 105
Mean 24.55
Std Dev 0
2
1
0
−1
−2

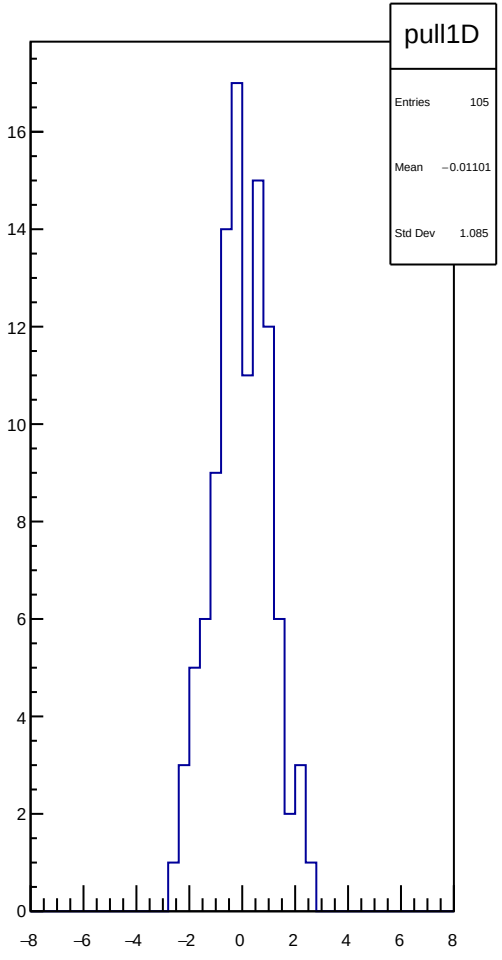

pull1D
Entries 105
Mean −0.02836
Std Dev 0.8782
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

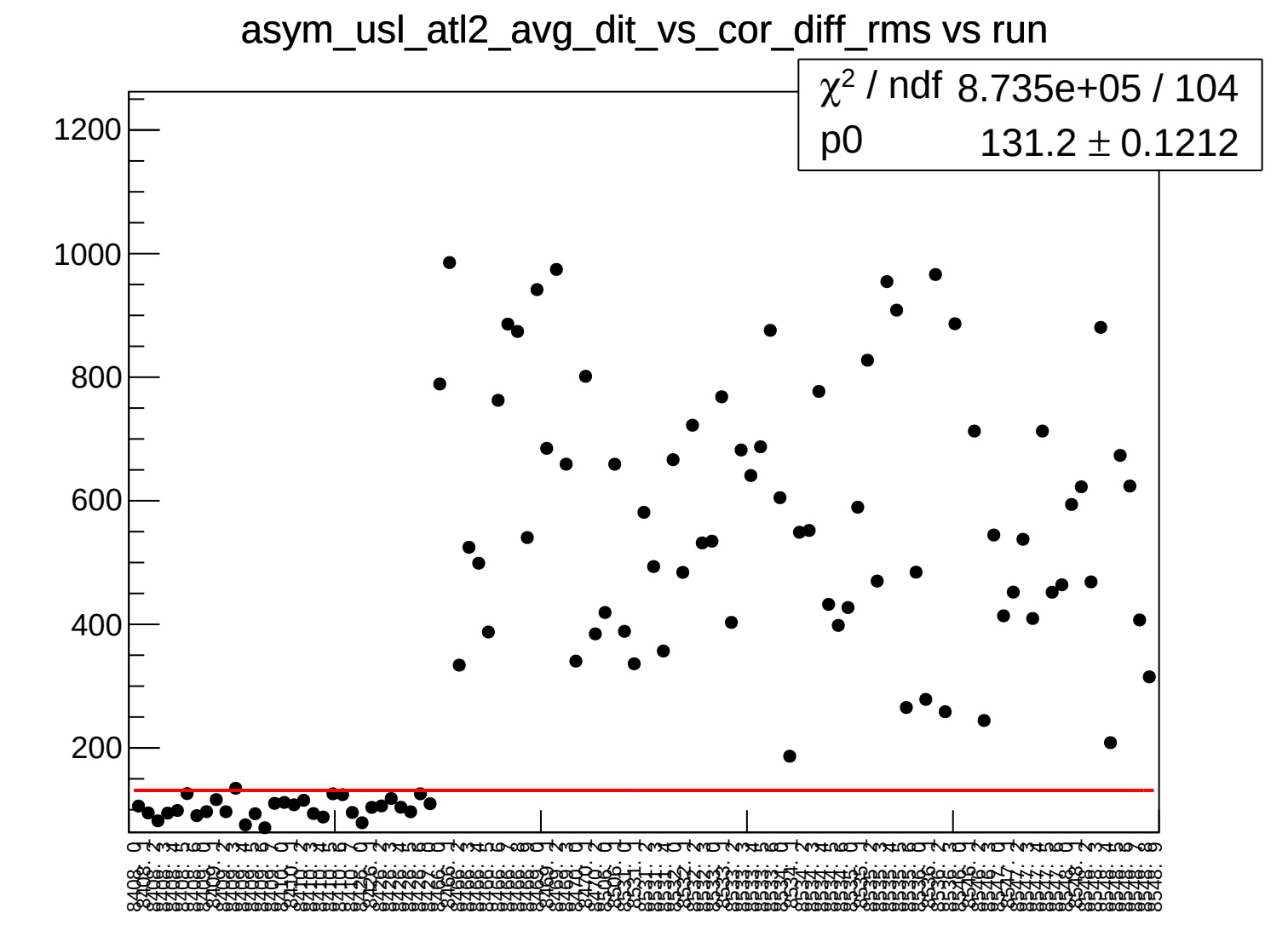

asym_usl_atl2_avg_rms vs run
χ² / ndf 7.971e+05 / 104
p0 7229 ± 6.468
25000
20000
15000
10000
5000

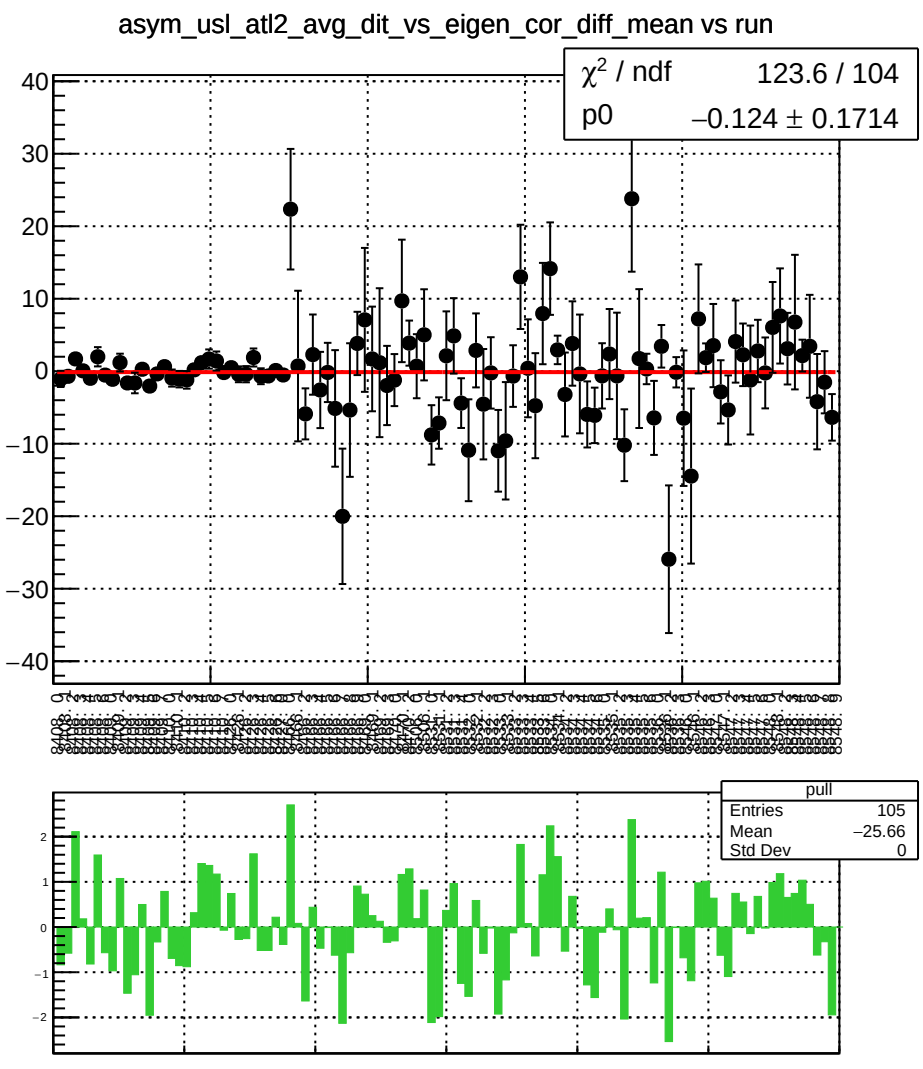

asym_usl_atl2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 117.4 / 104
p0 1.205e−13 ± 3.613e−13
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull
Entries 105
Mean 146.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.04887
Std Dev 1.056
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

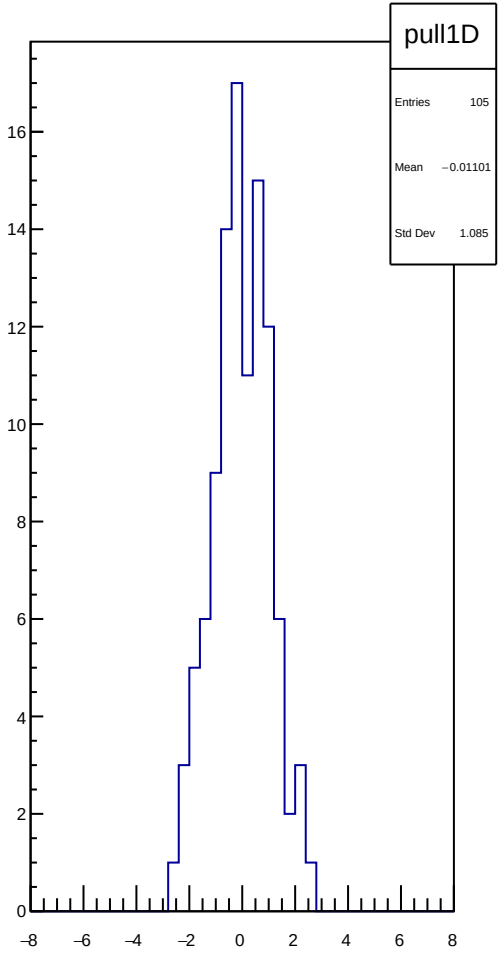

asym_usl_atl2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.502e+06 / 104
p0 1.885e−10 ± 2.555e−13
0
2
4
6
8
10
12
14
16
18

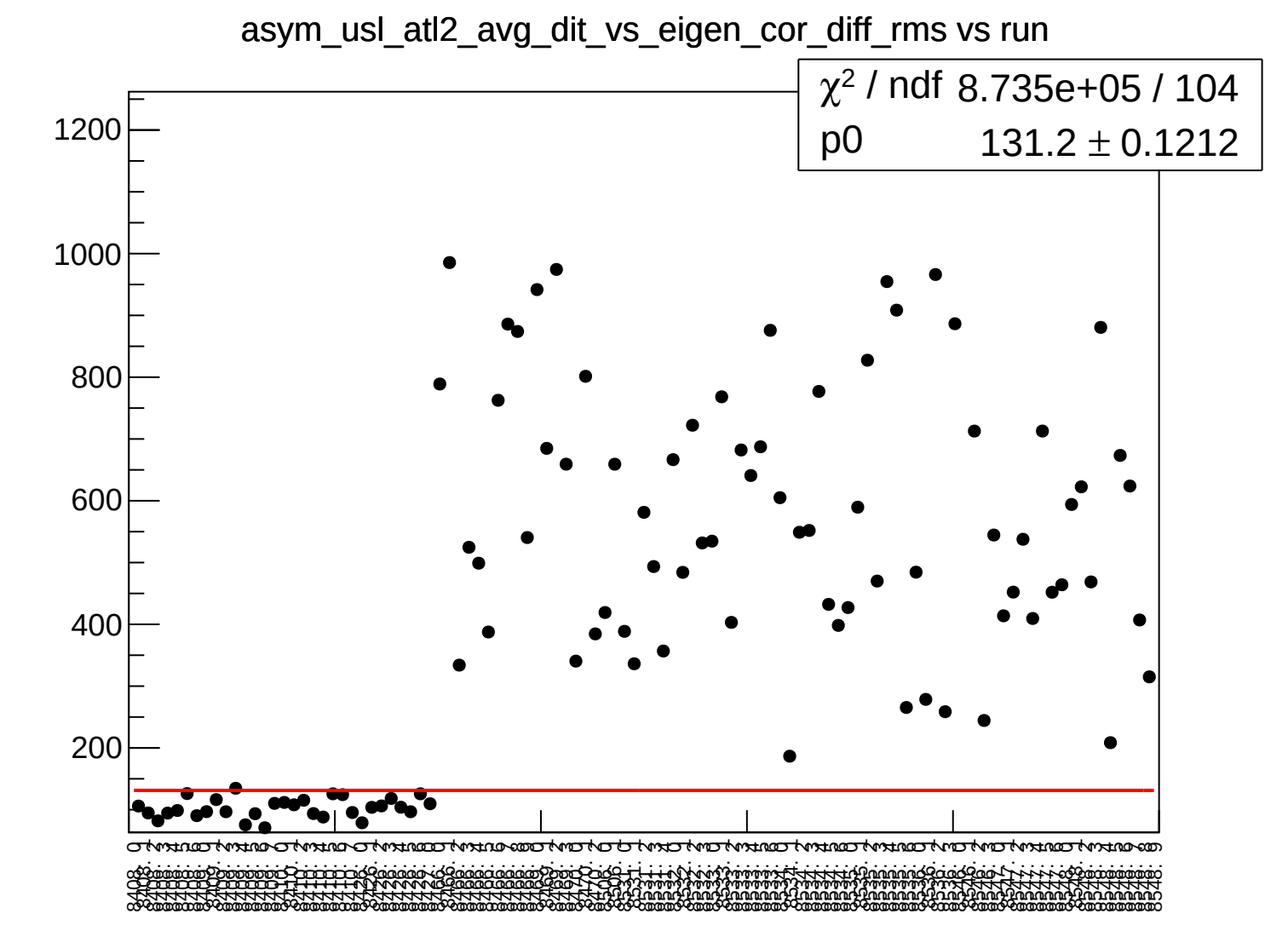

asym_usl_atl2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 123.6 / 104
p0 −0.124 ± 0.1714
pull
Entries 105
Mean −25.66
Std Dev 0

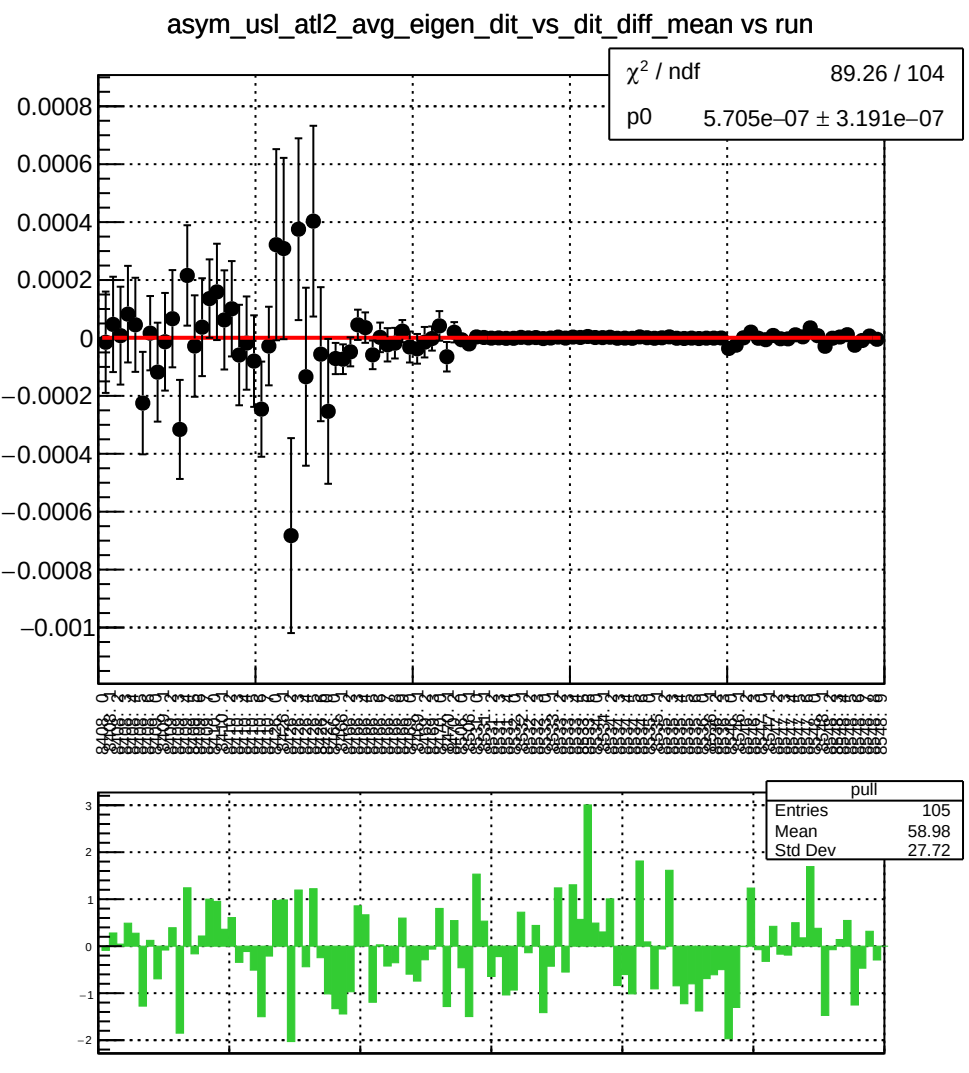

pull1D
Entries 105
Mean −0.01101
Std Dev 1.085

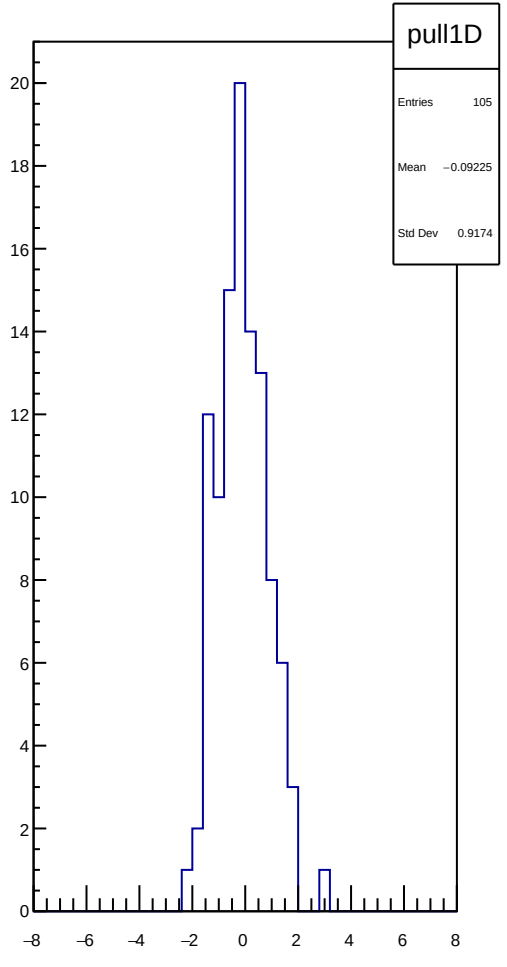

asym_usl_atl2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.735e+05 / 104
p0 131.2 ± 0.1212
1200
1000
800
600
400
200

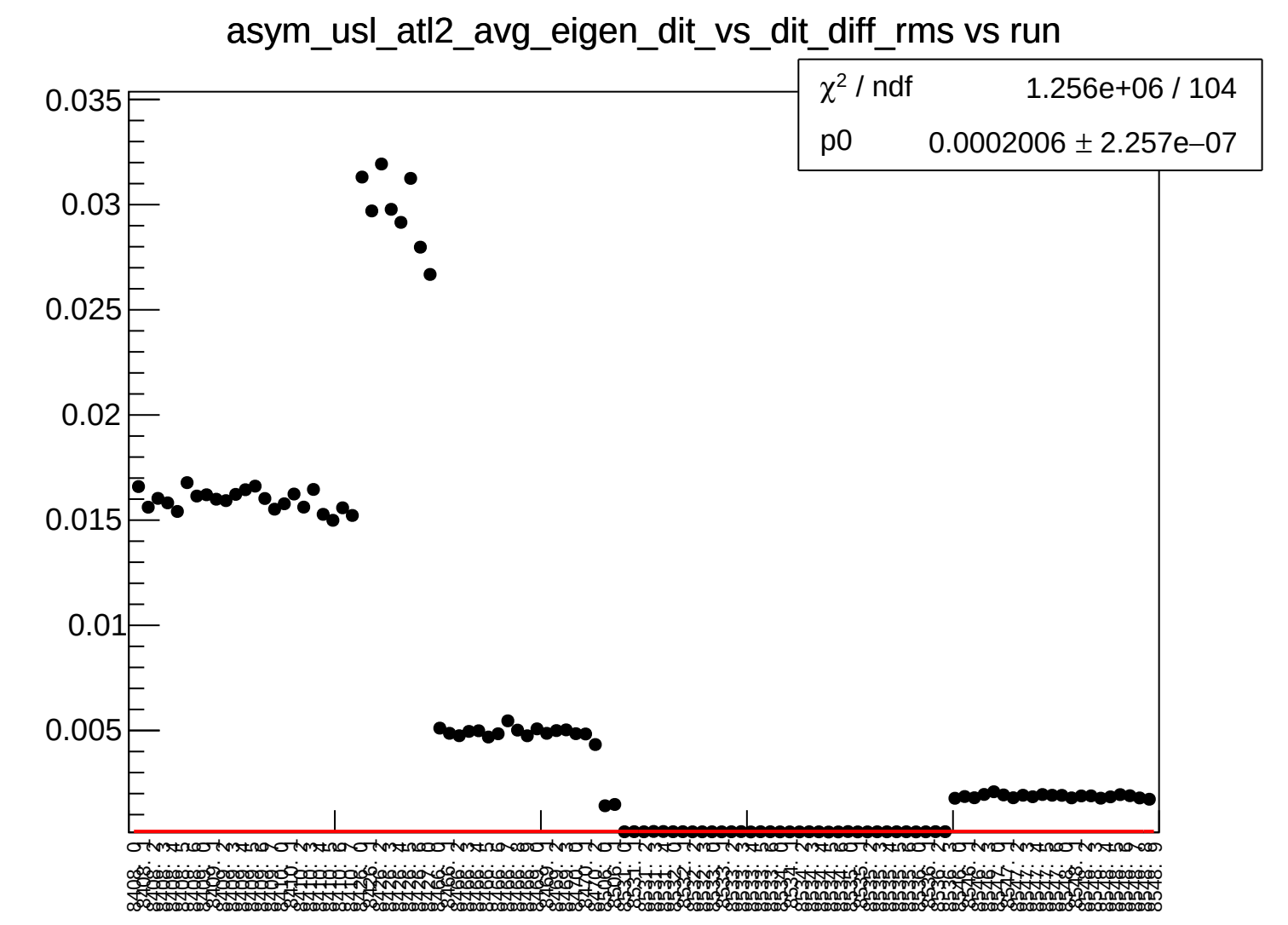

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 123.6 / 104
p0 −0.124 ± 0.1714
pull
Entries 105
Mean −25.66
Std Dev 0

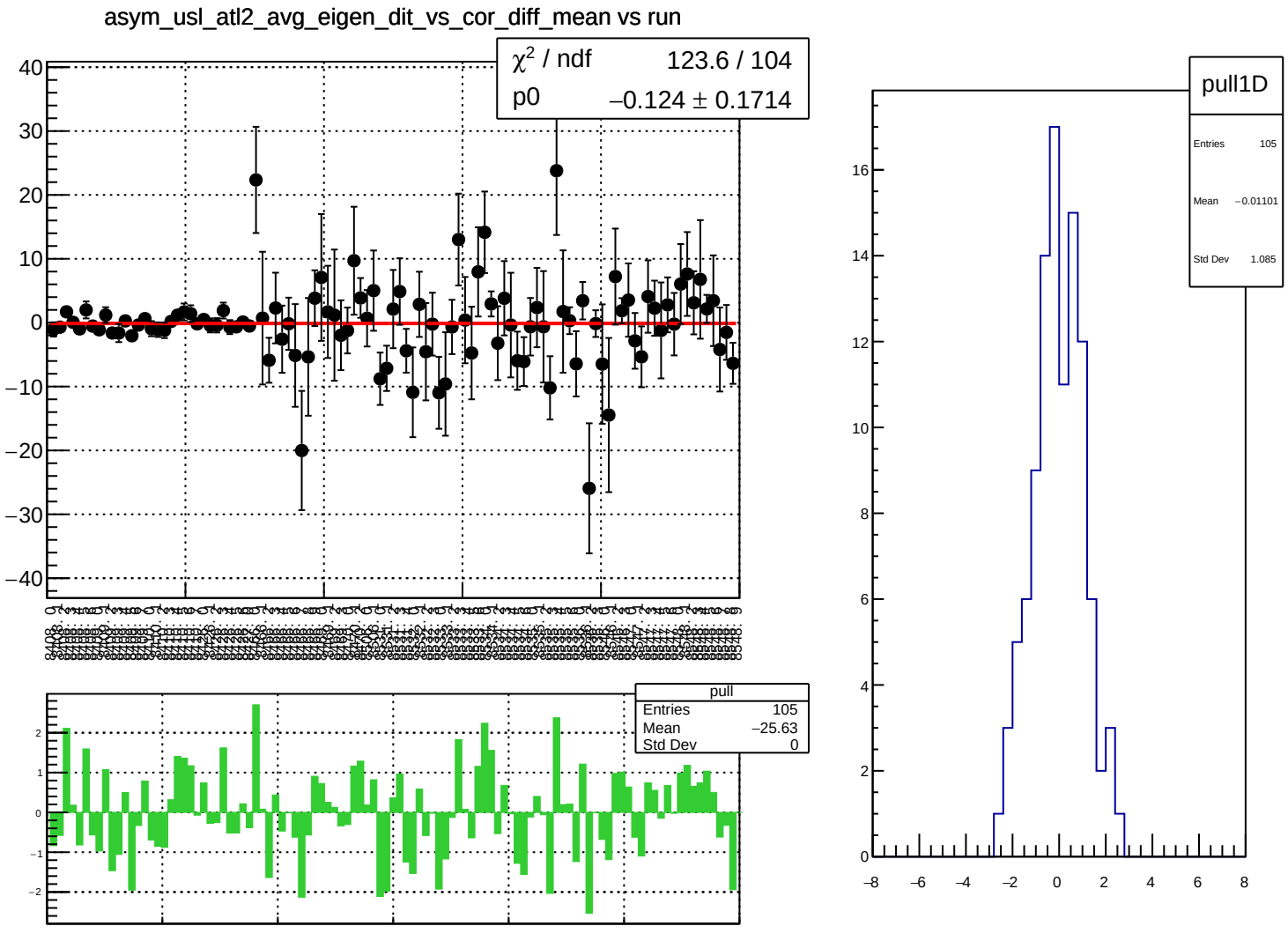

pull1D
Entries 105
Mean −0.01101
Std Dev 1.085

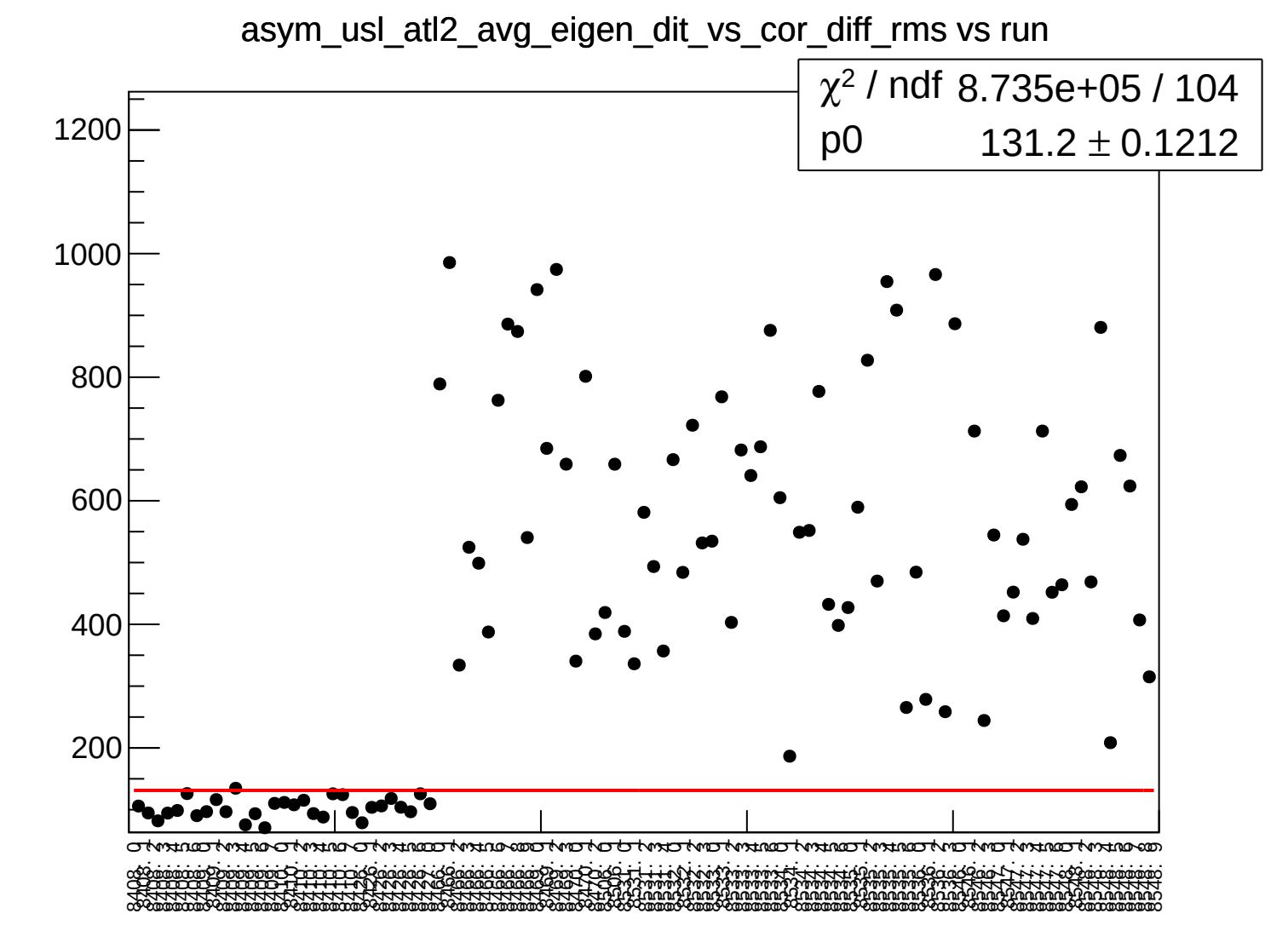

asym_usl_atl2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.735e+05 / 104
p0 131.2 ± 0.1212
1200
1000
800
600
400
200

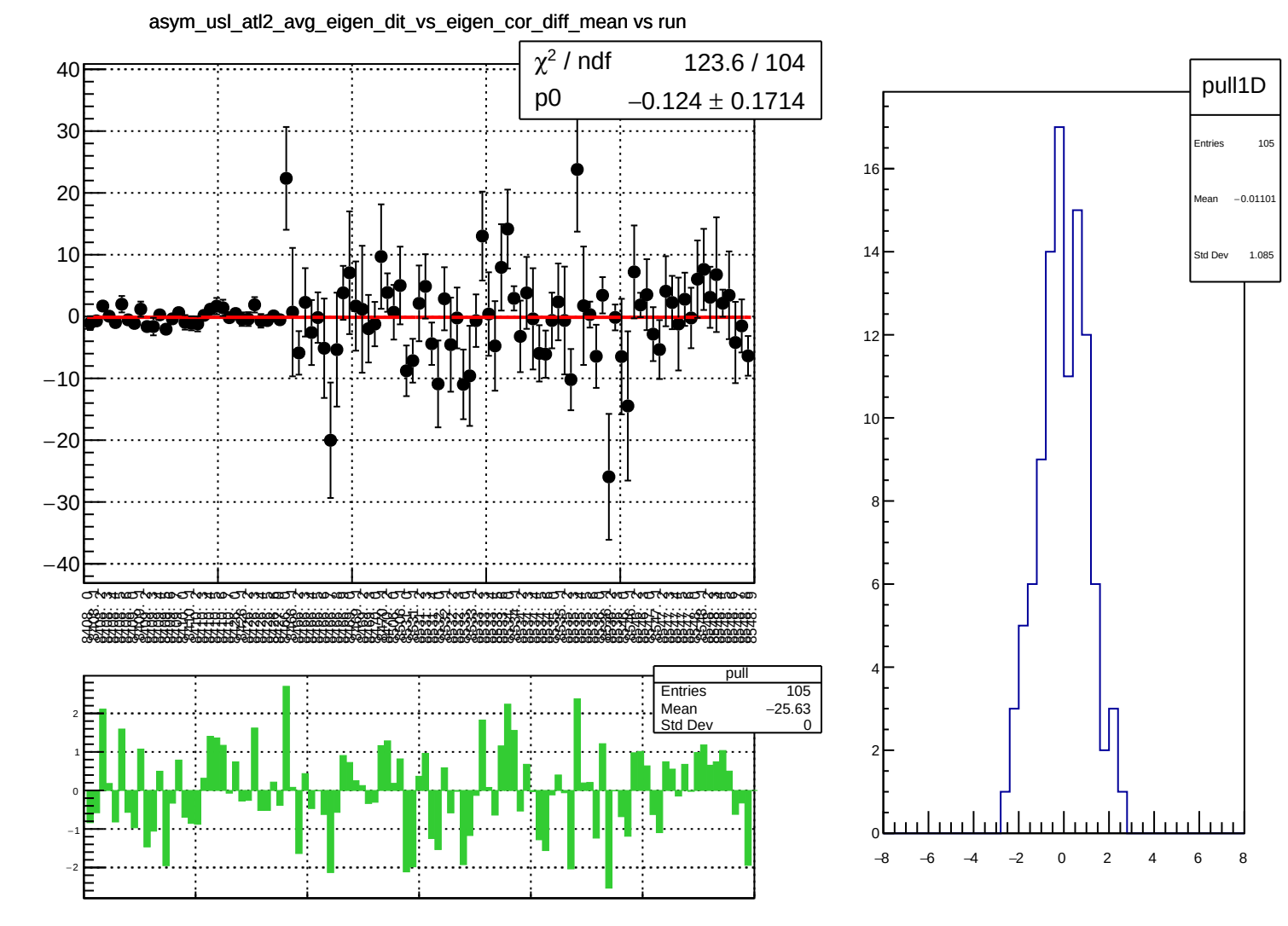

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 89.26 / 104
p0 5.705e−07 ± 3.191e−07
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 105
Mean 58.98
Std Dev 27.72
3
2
1
0
−1
−2

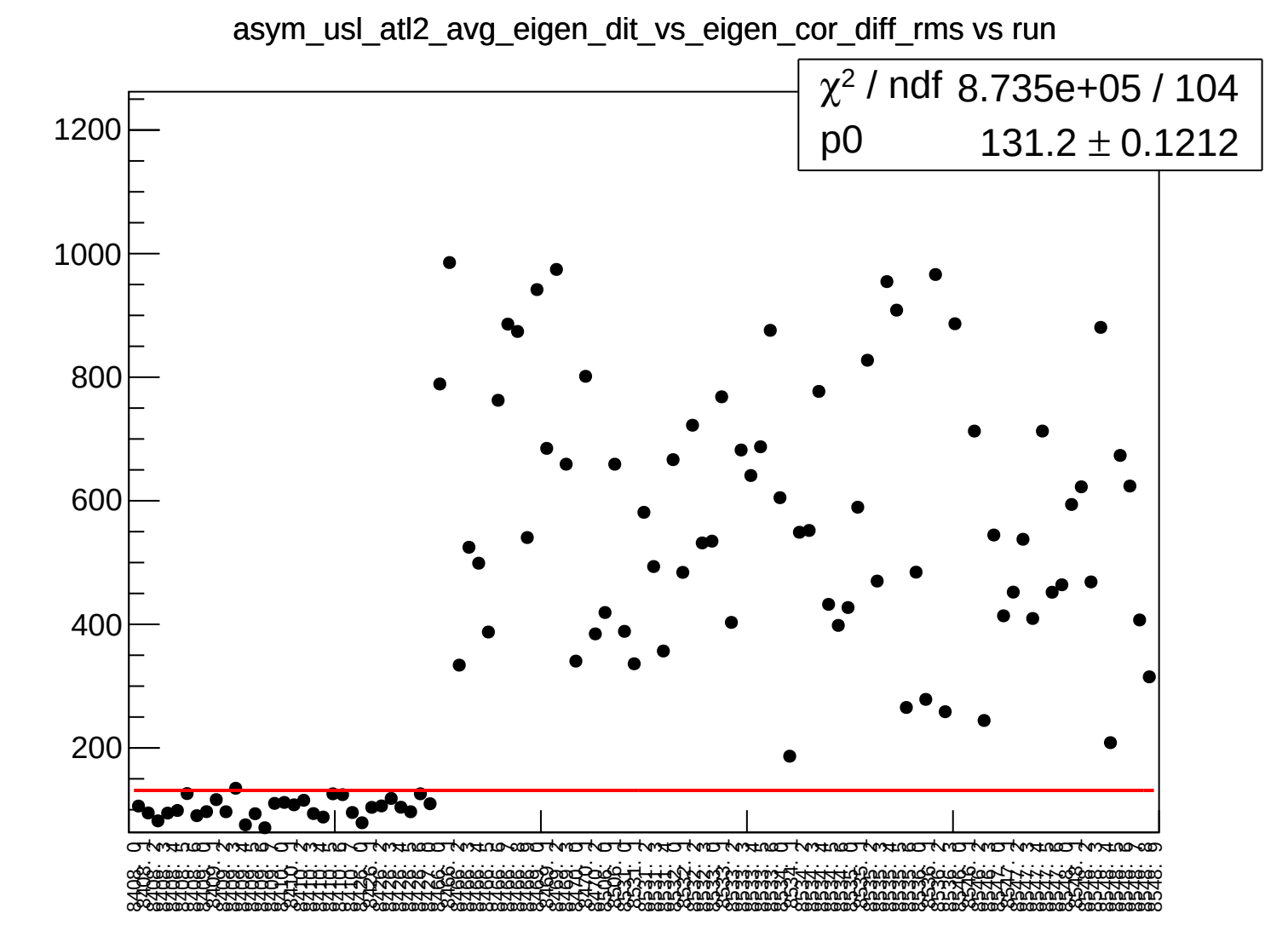

pull1D
Entries 105
Mean −0.09225
Std Dev 0.9174
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

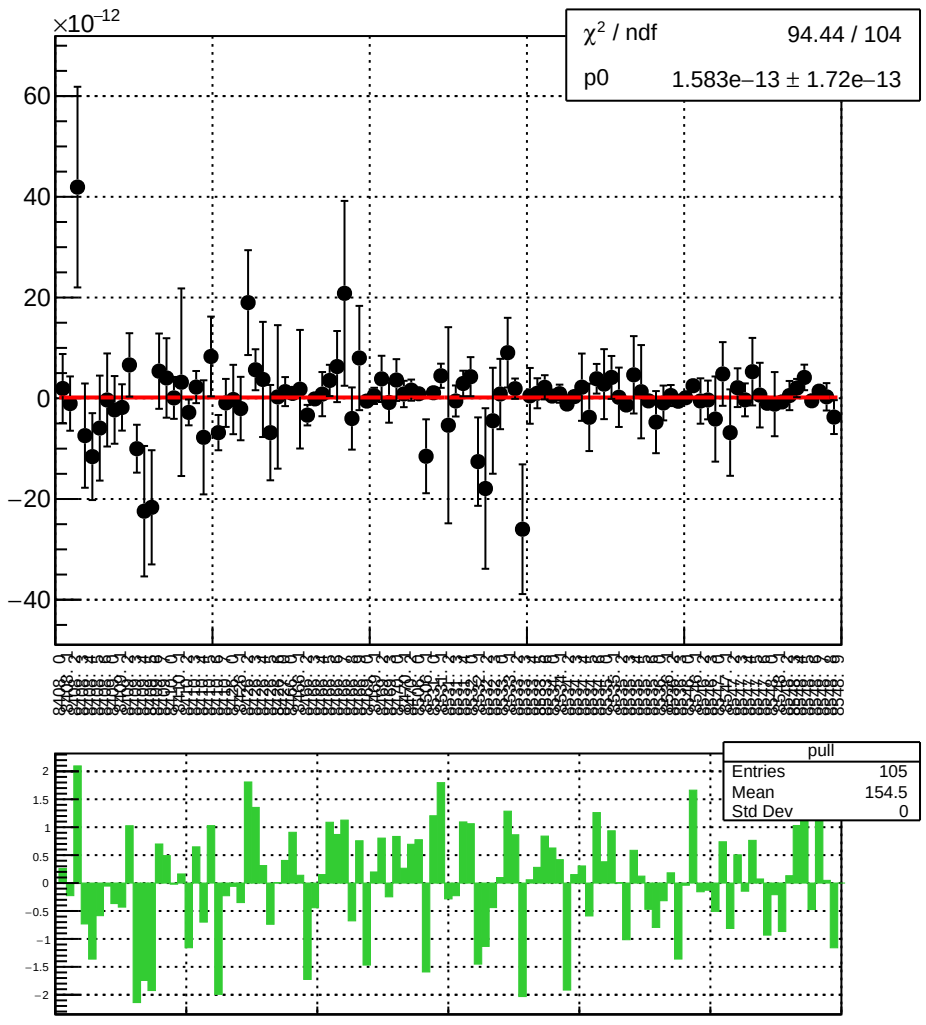

asym_usl_atl2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.256e+06 / 104
p0 0.0002006 ± 2.257e−07
0.035
0.03
0.025
0.02
0.015
0.01
0.005

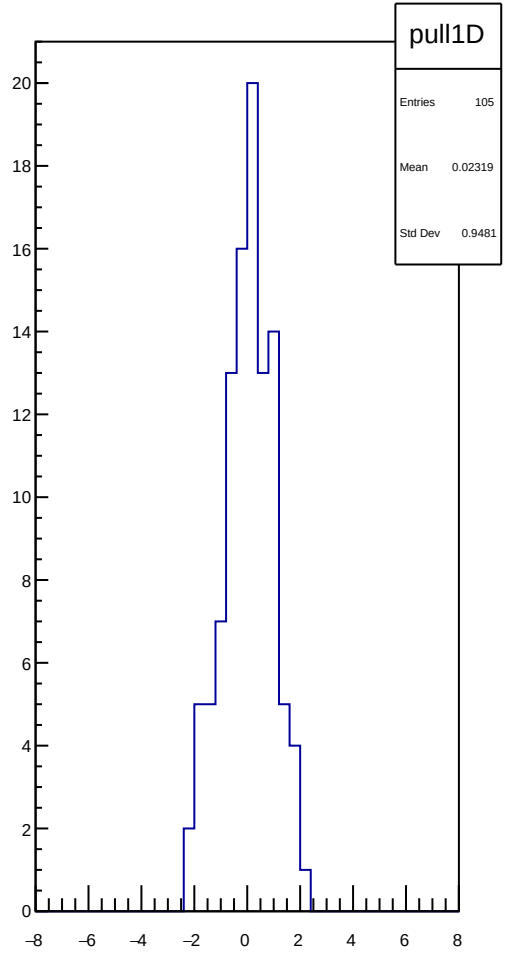

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 123.6 / 104
p0 −0.124 ± 0.1714
pull
Entries 105
Mean −25.63
Std Dev 0
pull1D
Entries 105
Mean −0.01101
Std Dev 1.085

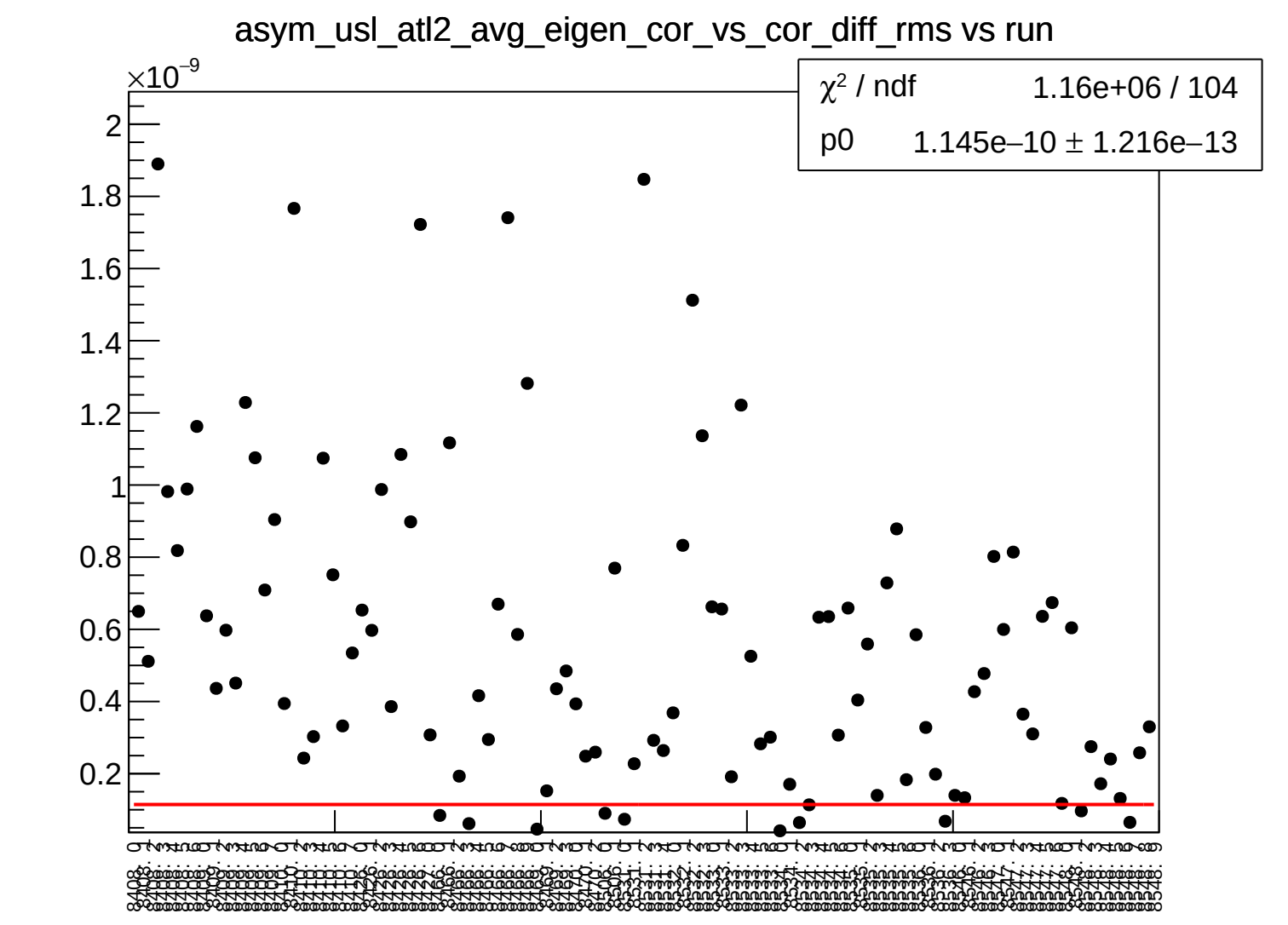

asym_usl_atl2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.735e+05 / 104
p0 131.2 ± 0.1212
1200
1000
800
600
400
200

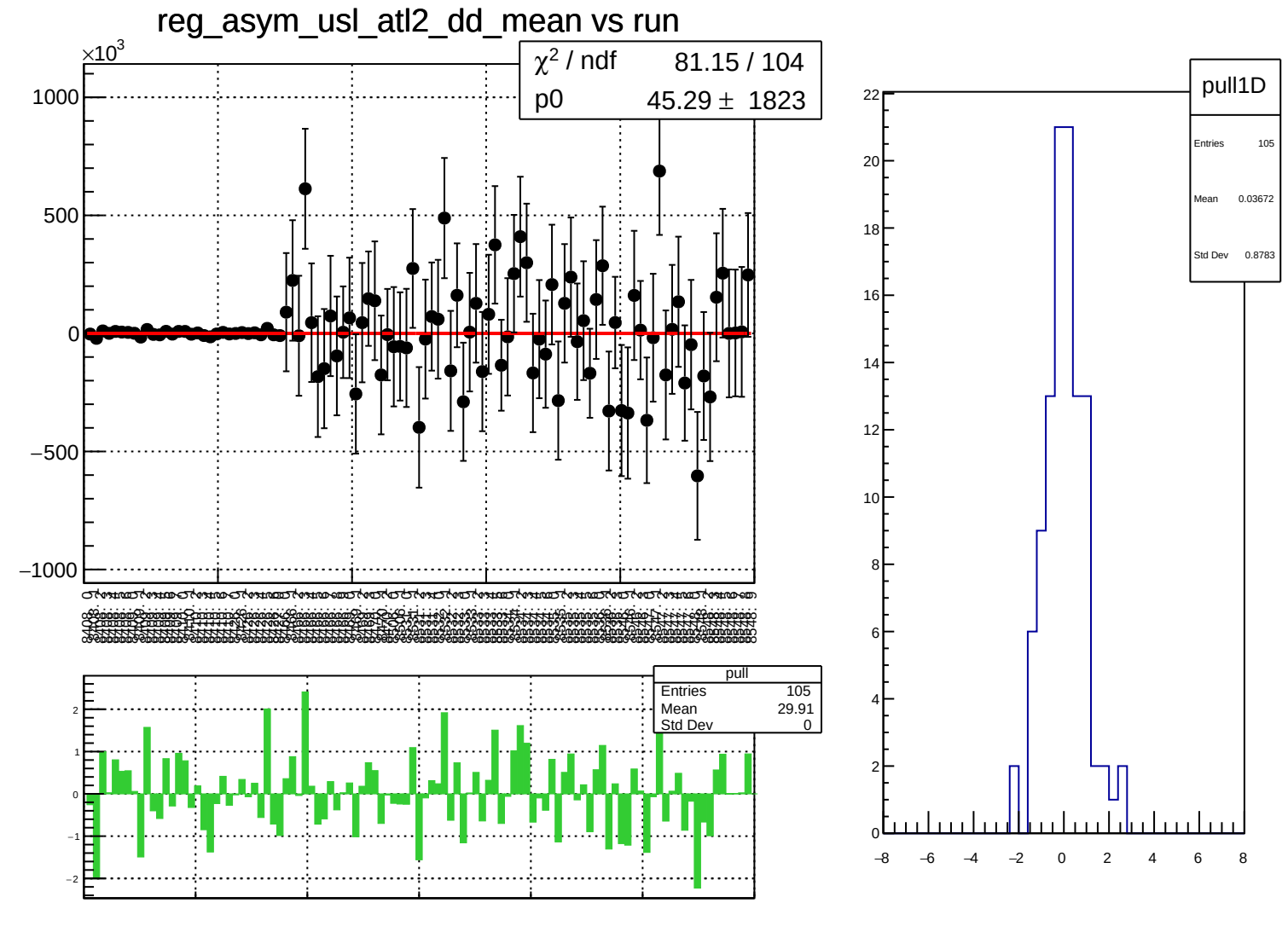

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 123.6 / 104
p0 −0.124 ± 0.1714
pull
Entries 105
Mean −25.63
Std Dev 0
pull1D
Entries 105
Mean −0.01101
Std Dev 1.085

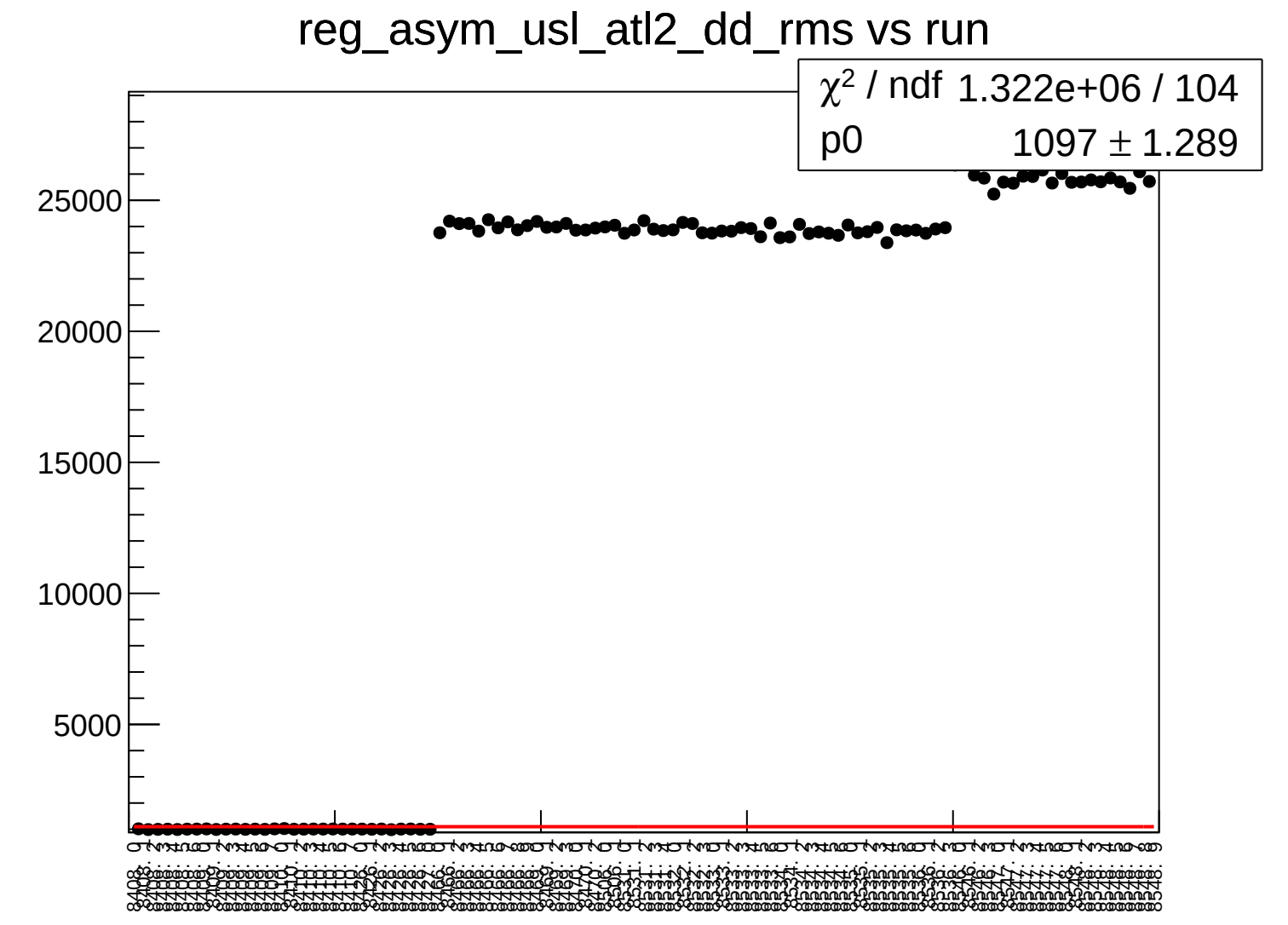

asym_usl_atl2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.735e+05 / 104
p0 131.2 ± 0.1212
1200
1000
800
600
400
200

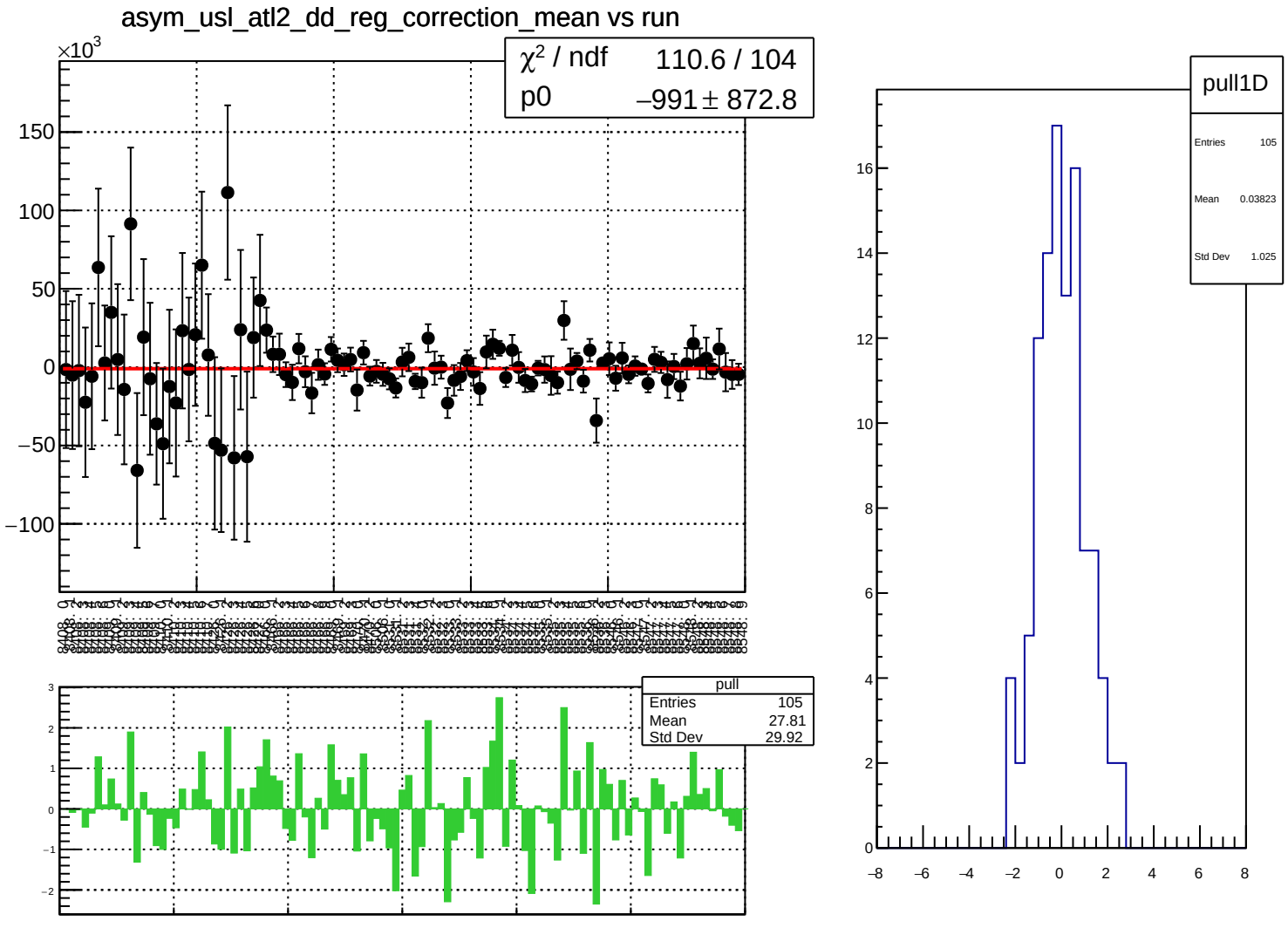

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 94.44 / 104
p0 1.583e−13 ± 1.72e−13
pull
Entries 105
Mean 154.5
Std Dev 0

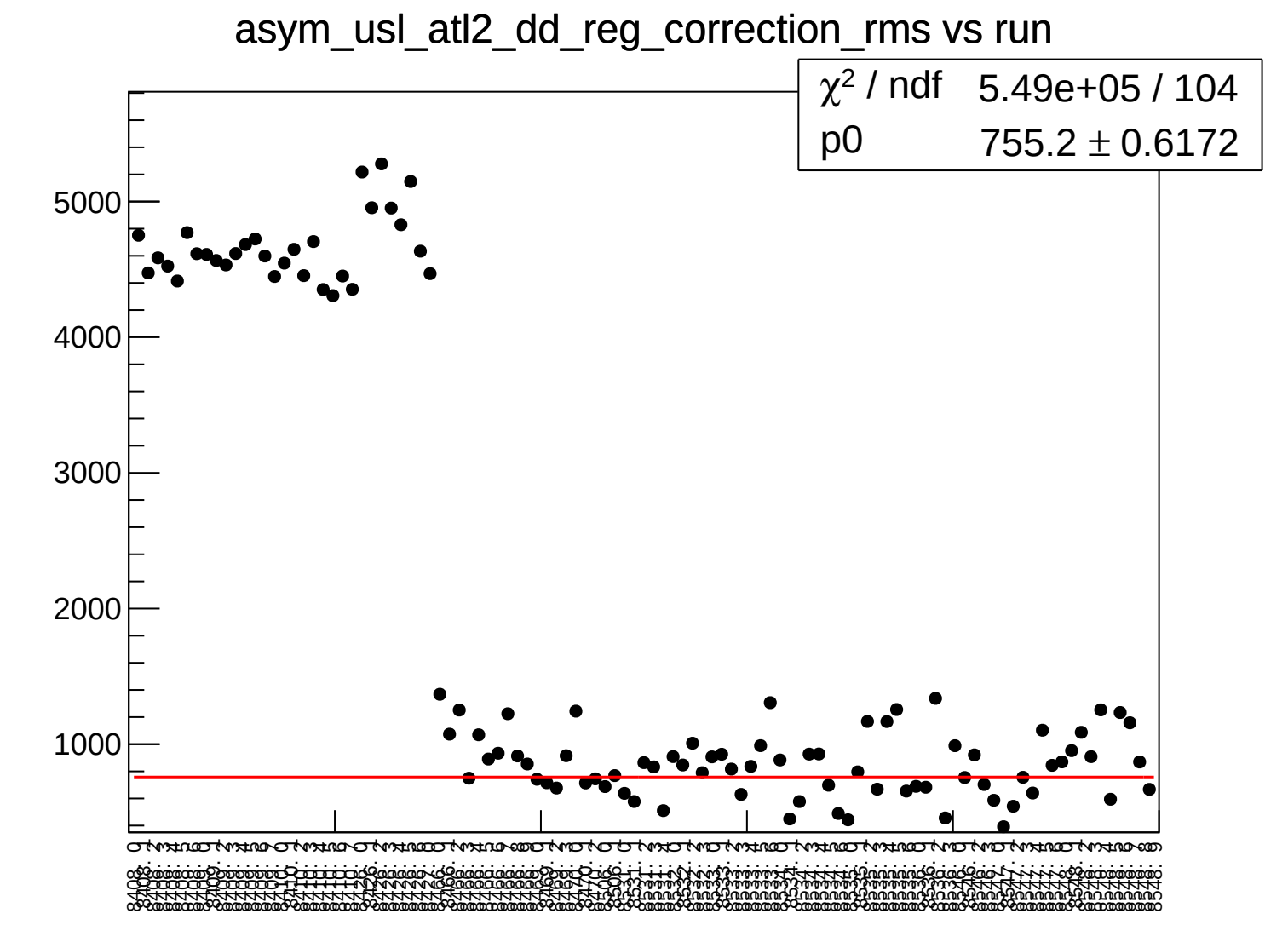

pull1D
Entries 105
Mean 0.02319
Std Dev 0.9481

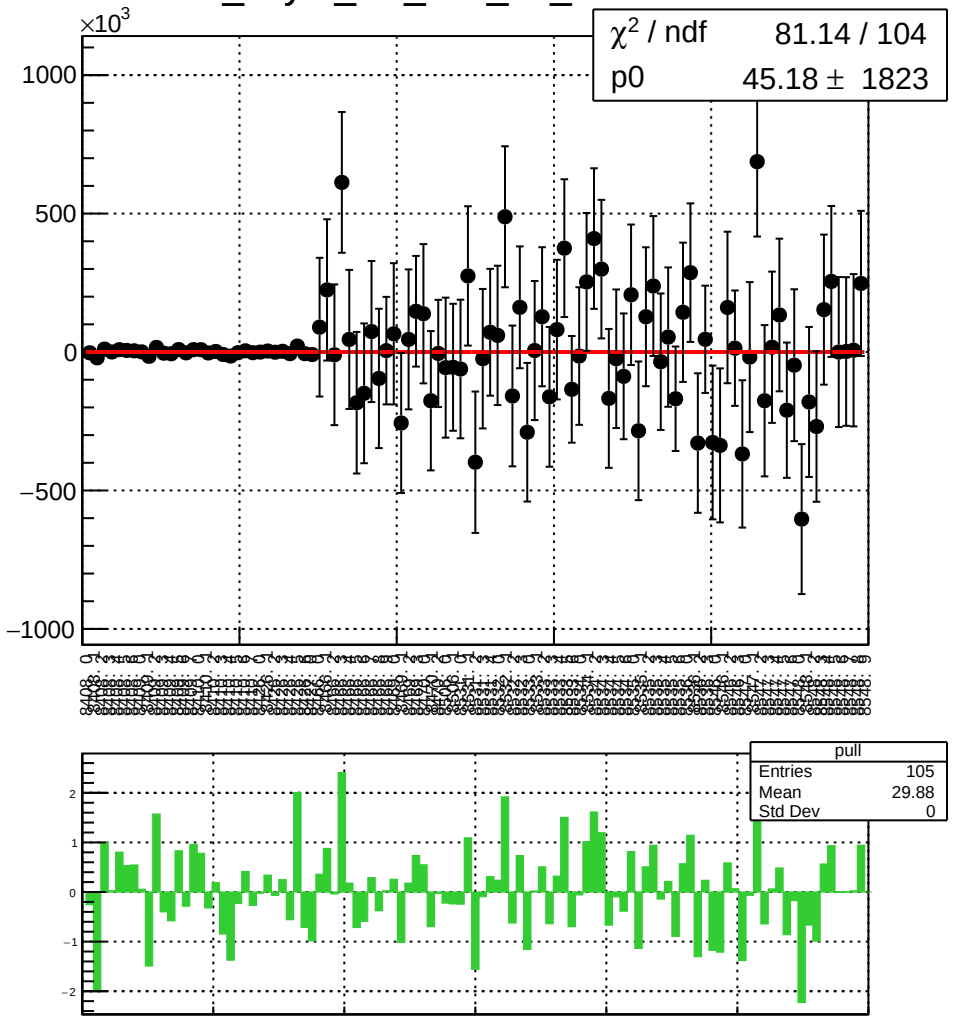

asym_usl_atl2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.16e+06 / 104
p0 1.145e−10 ± 1.216e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

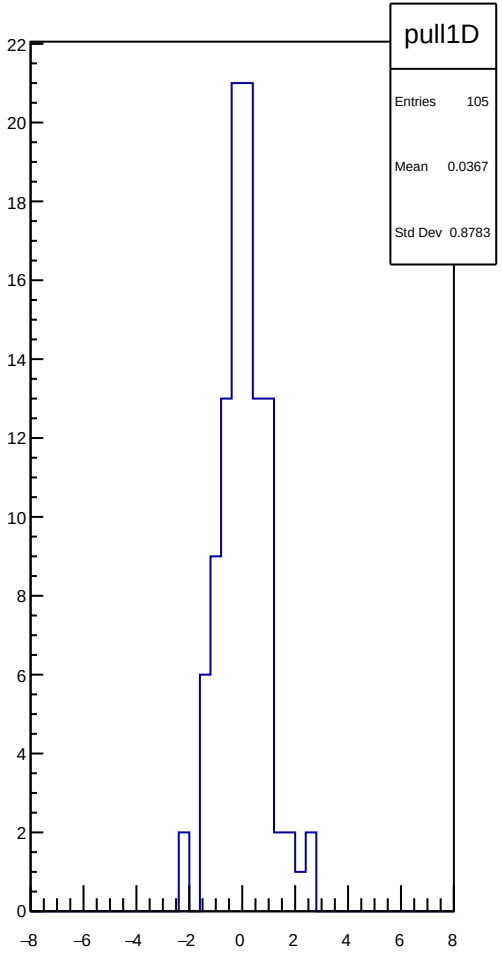

reg_asym_usl_atl2_dd_mean vs run
×10^3
χ^2 / ndf 81.15 / 104
p0 45.29 ± 1823
1000
500
0
−500
−1000
pull
Entries 105
Mean 29.91
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.03672
Std Dev 0.8783
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

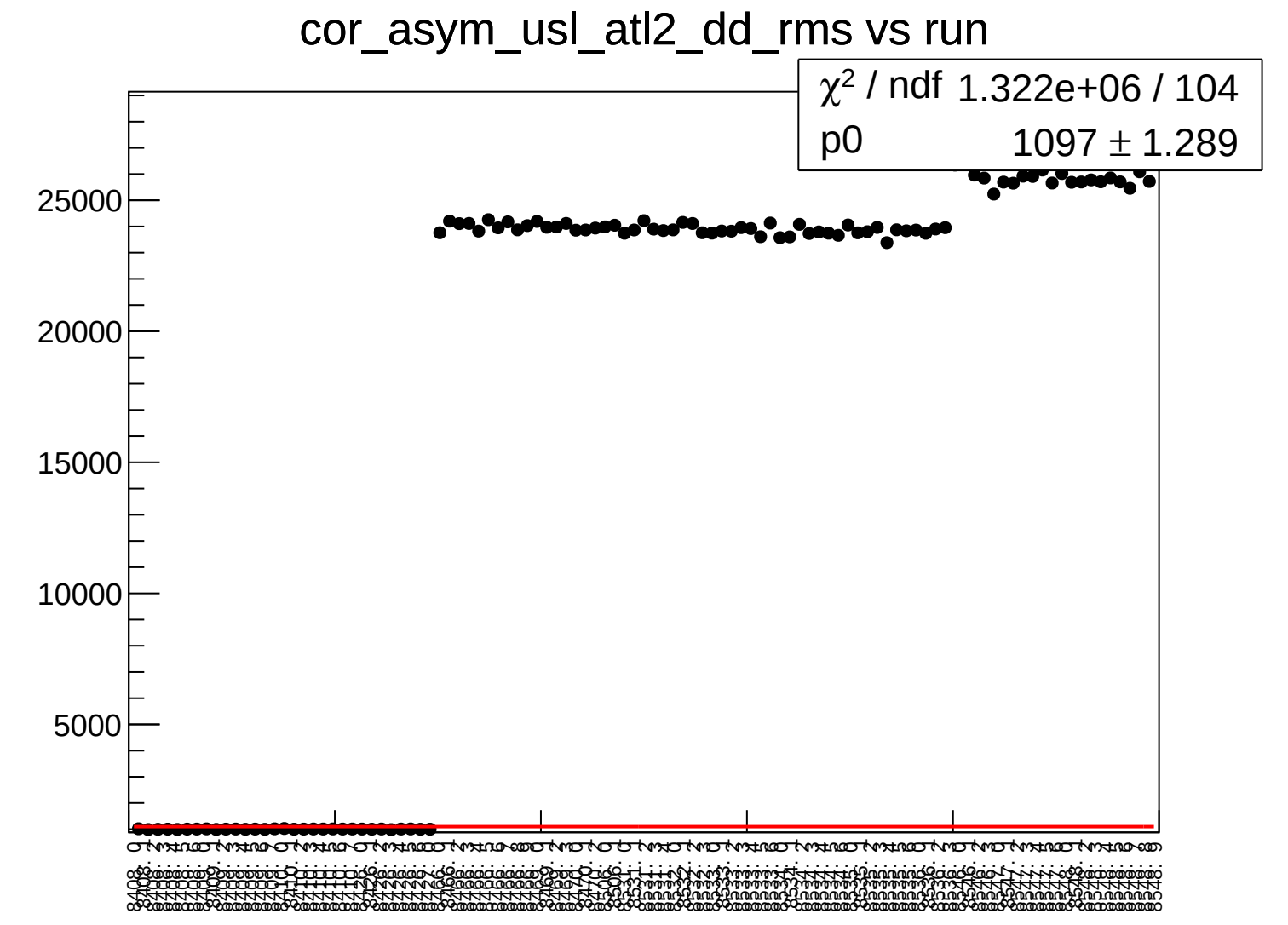

reg_asym_usl_atl2_dd_rms vs run
χ² / ndf 1.322e+06 / 104
p0 1097 ± 1.289
25000
20000
15000
10000
5000

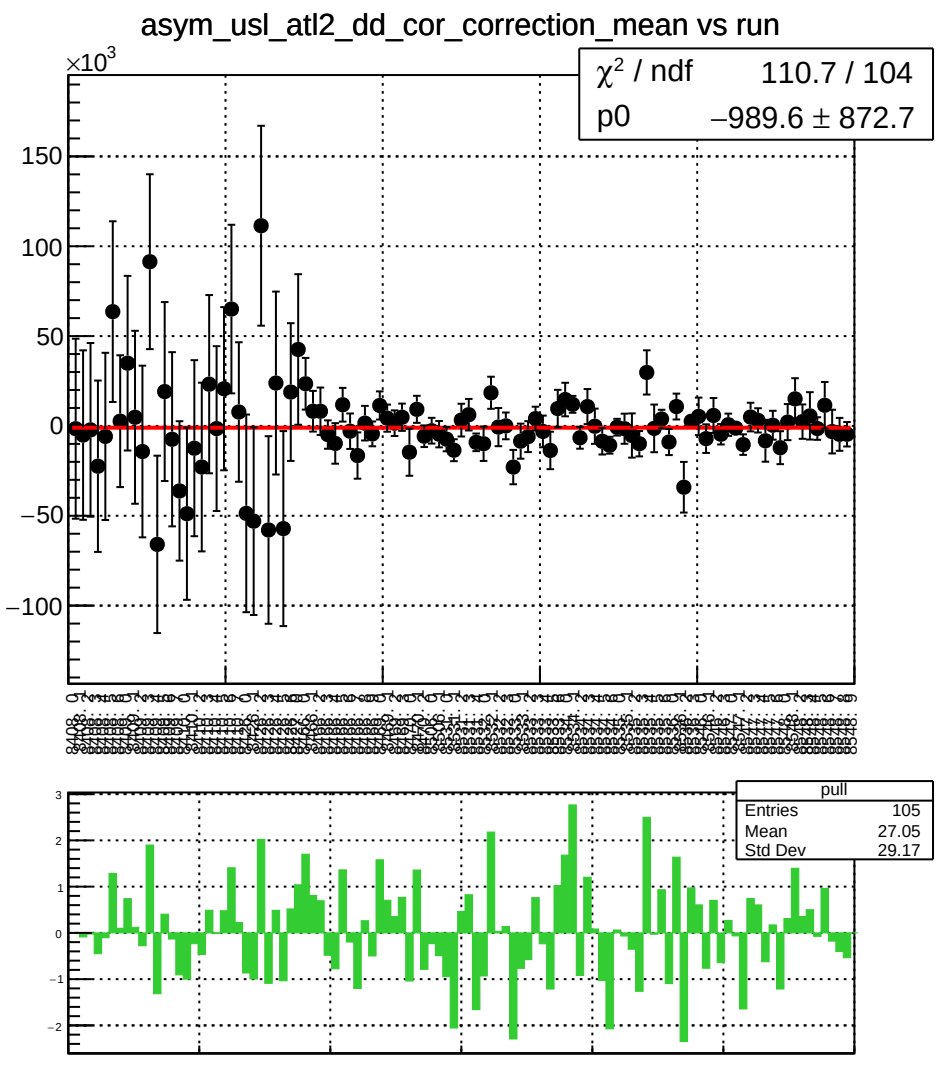

asym_usl_atl2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 110.6 / 104
p0 −991 ± 872.8
150
100
50
0
−50
−100
pull
Entries 105
Mean 27.81
Std Dev 29.92
3
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.03823
Std Dev 1.025
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

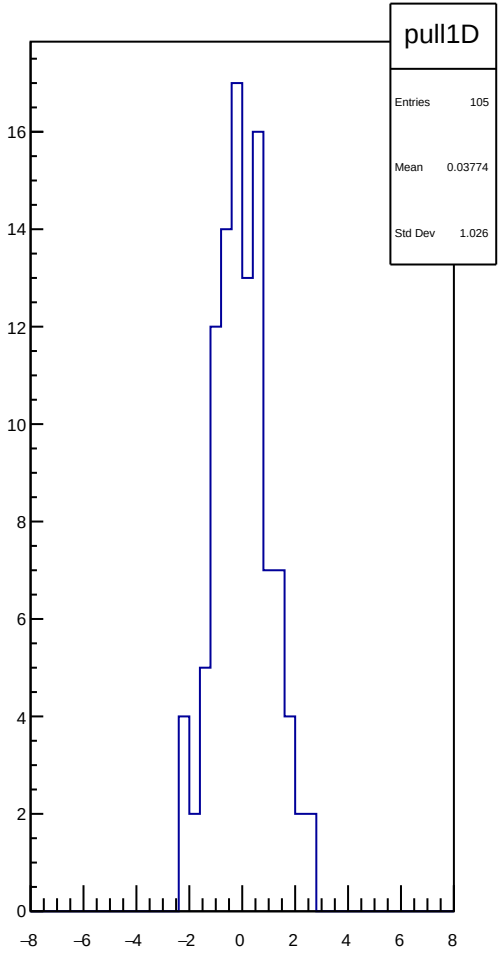

asym_usl_atl2_dd_reg_correction_rms vs run
χ² / ndf 5.49e+05 / 104
p0 755.2 ± 0.6172
5000
4000
3000
2000
1000

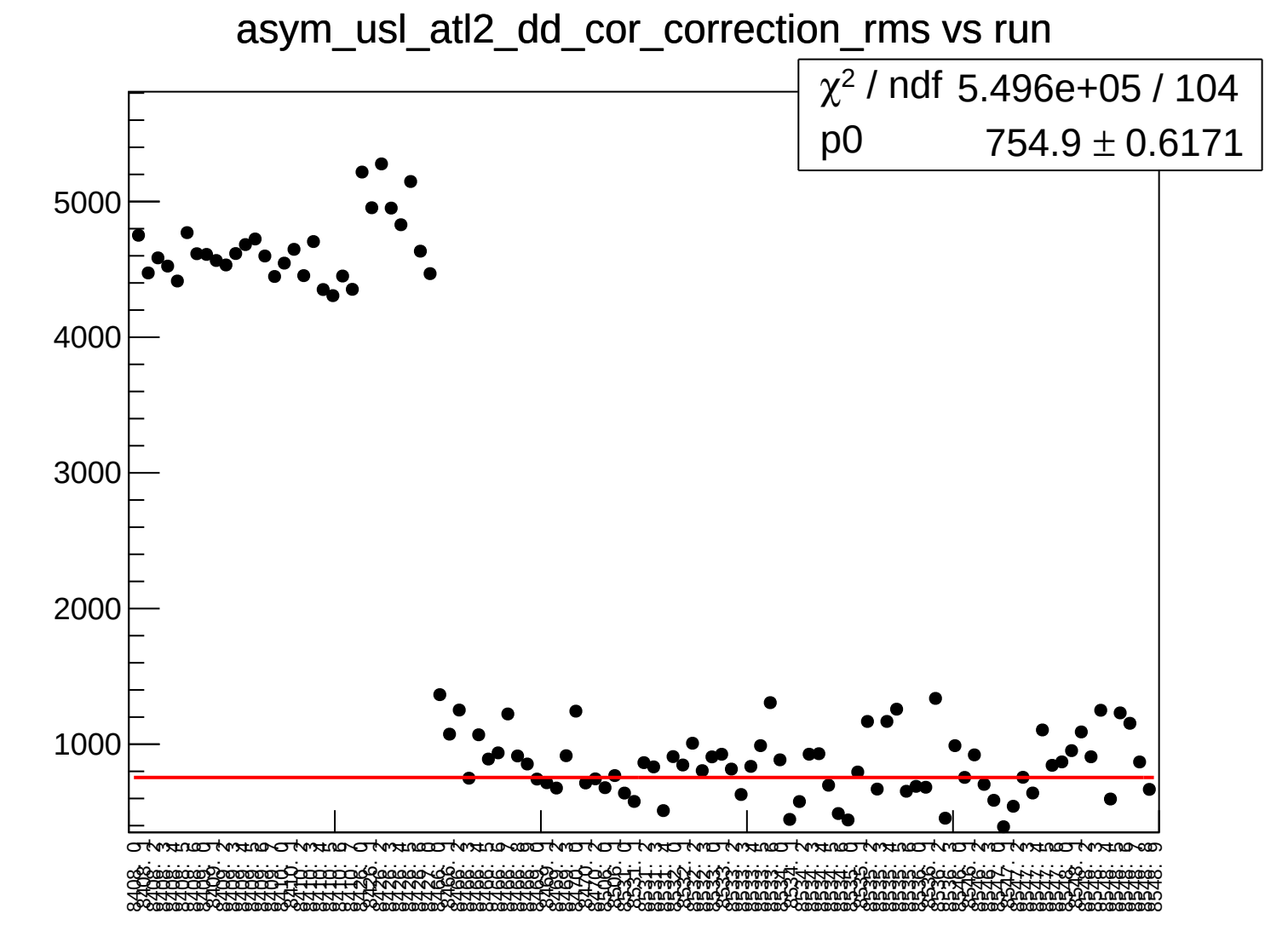

cor_asym_usl_atl2_dd_mean vs run
×10^3
χ^2 / ndf 81.14 / 104
p0 45.18 ± 1823
1000
500
0
−500
−1000
pull
Entries 105
Mean 29.88
Std Dev 0
2
1
0
−1
−2

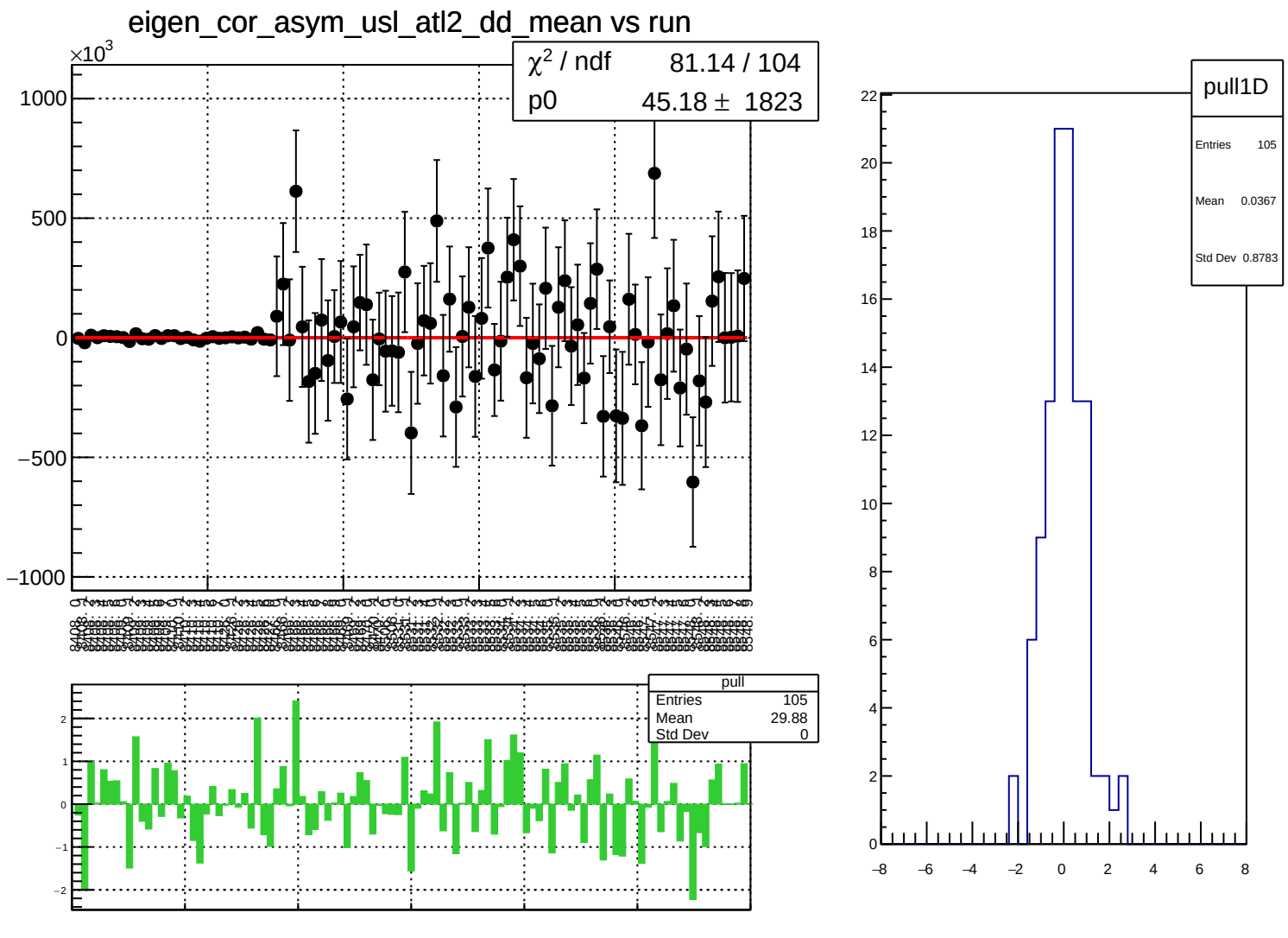

pull1D
Entries 105
Mean 0.0367
Std Dev 0.8783
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

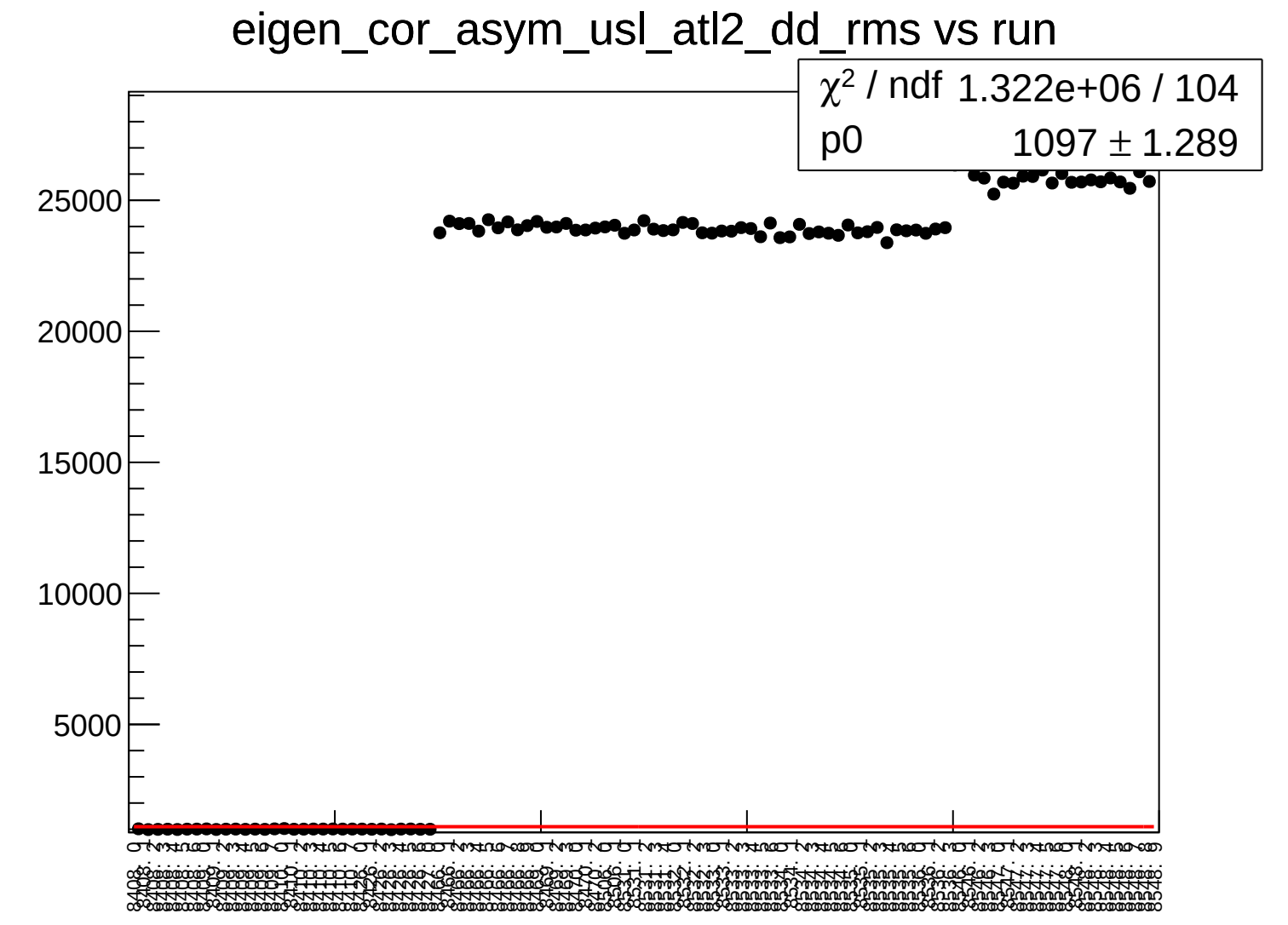

cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 1.322e+06 / 104
p0 1097 ± 1.289
25000
20000
15000
10000
5000

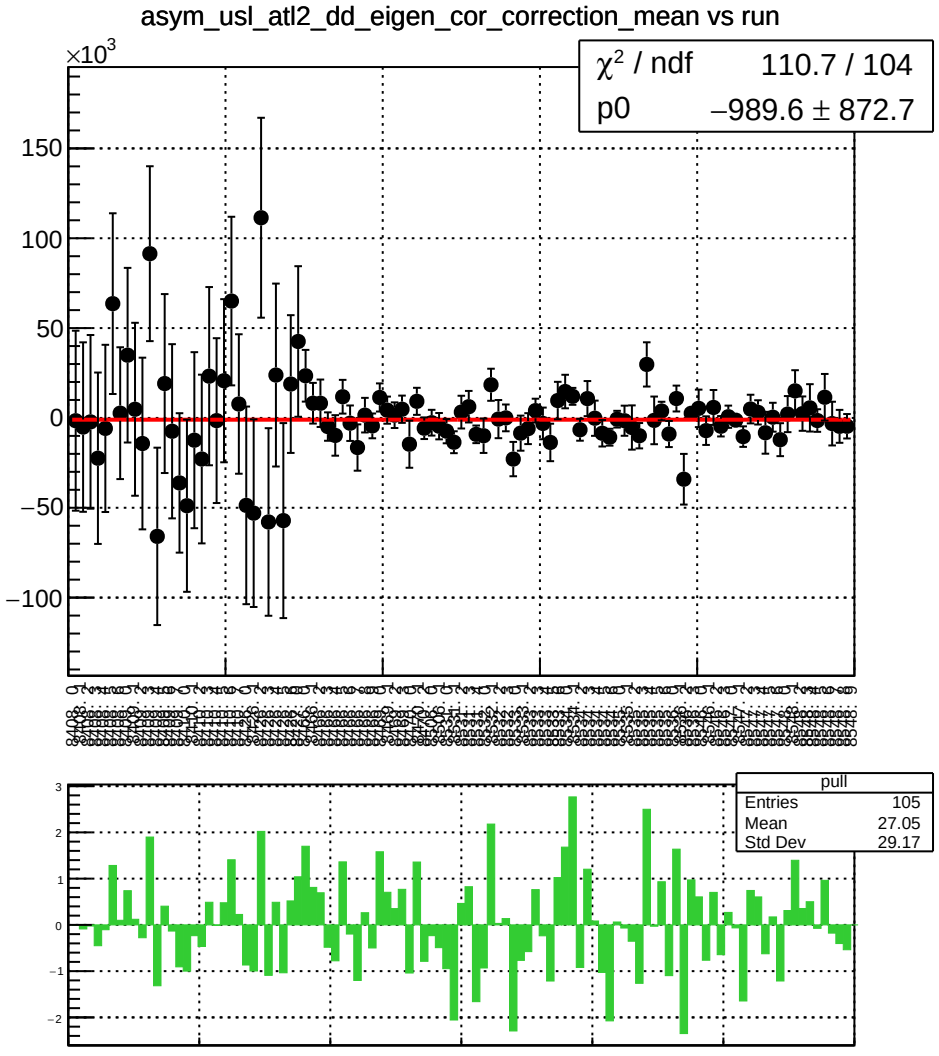

asym_usl_atl2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 110.7 / 104
p0 −989.6 ± 872.7
150
100
50
0
−50
−100
pull
Entries 105
Mean 27.05
Std Dev 29.17
3
2
1
0
−1
−2

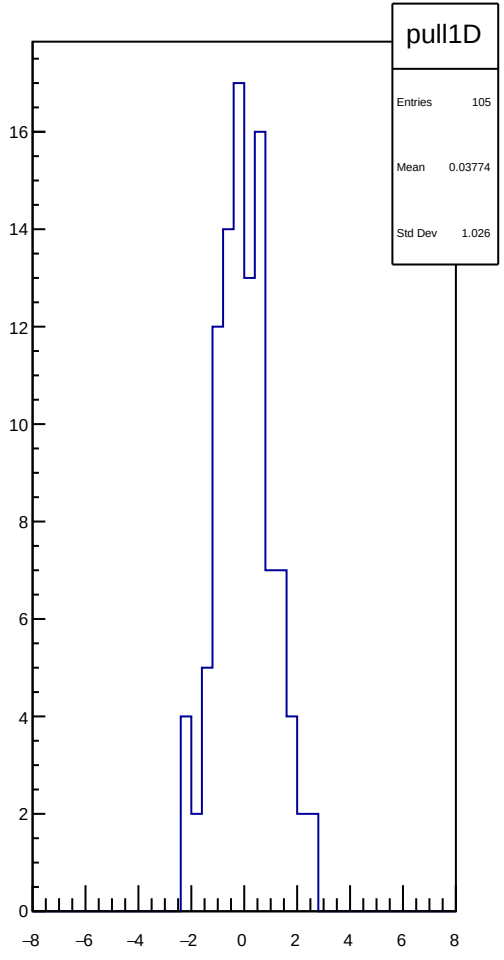

pull1D
Entries 105
Mean 0.03774
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

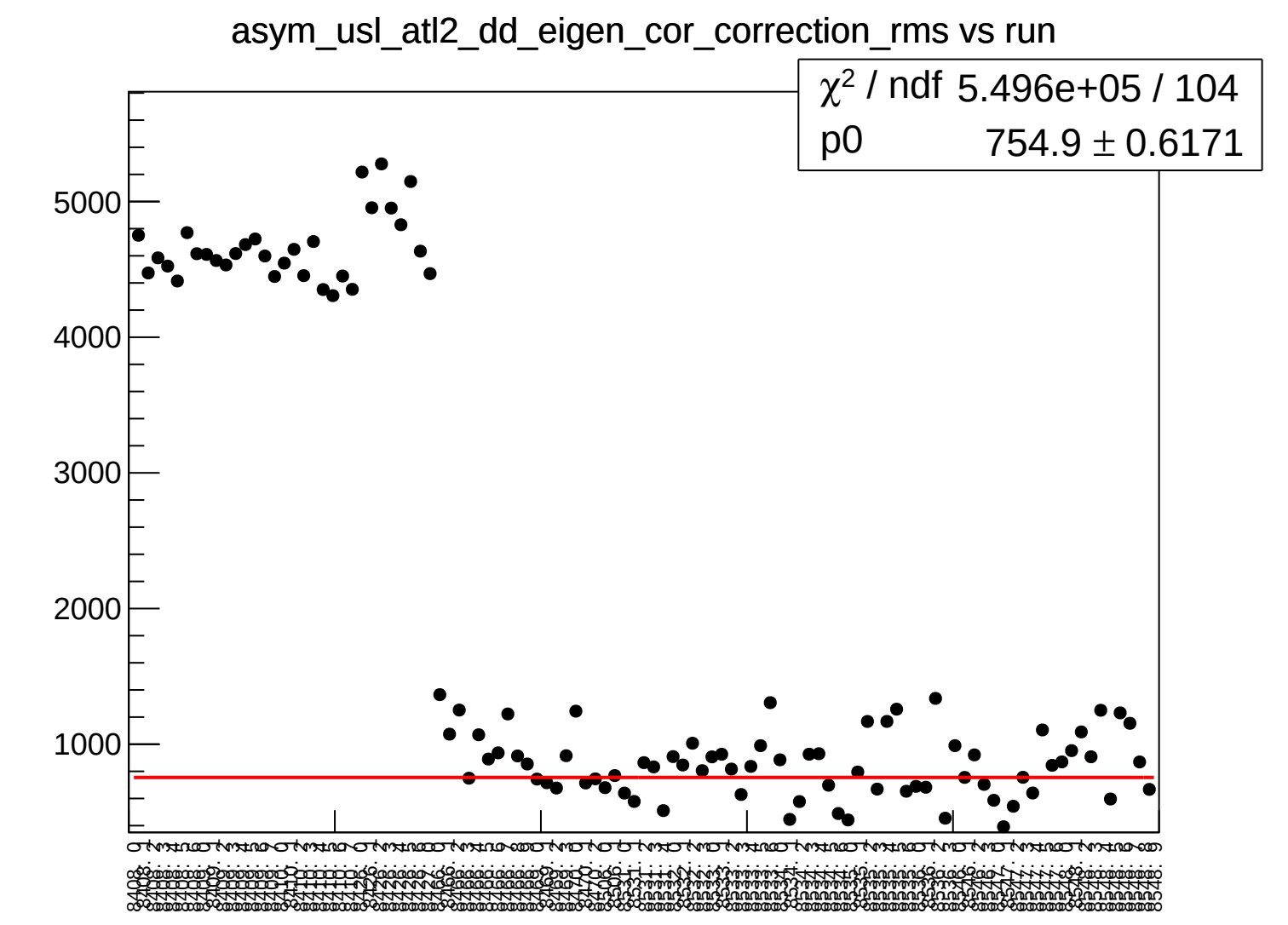

asym_usl_atl2_dd_cor_correction_rms vs run
χ² / ndf 5.496e+05 / 104
p0 754.9 ± 0.6171
5000
4000
3000
2000
1000

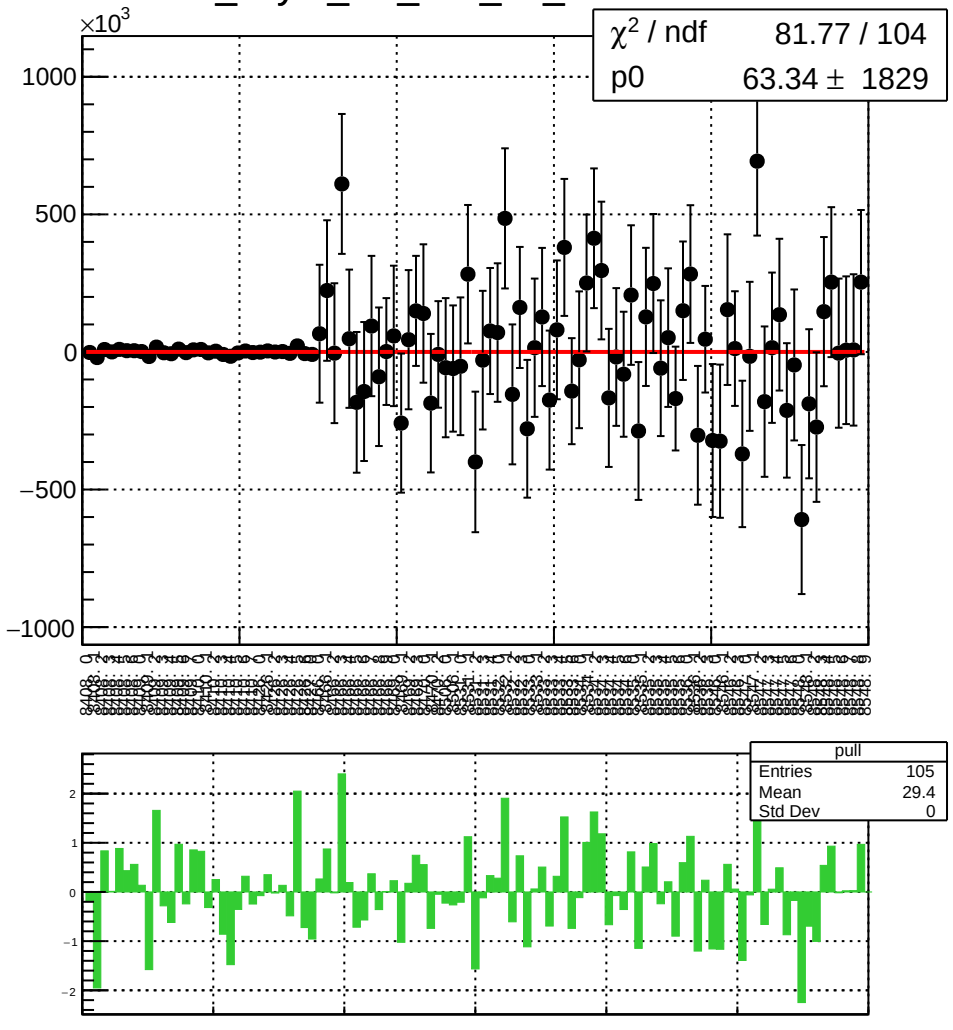

eigen_cor_asym_usl_atl2_dd_mean vs run
×10^3
χ^2 / ndf 81.14 / 104
p0 45.18 ± 1823
1000
500
0
−500
−1000
pull
Entries 105
Mean 29.88
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.0367
Std Dev 0.8783
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

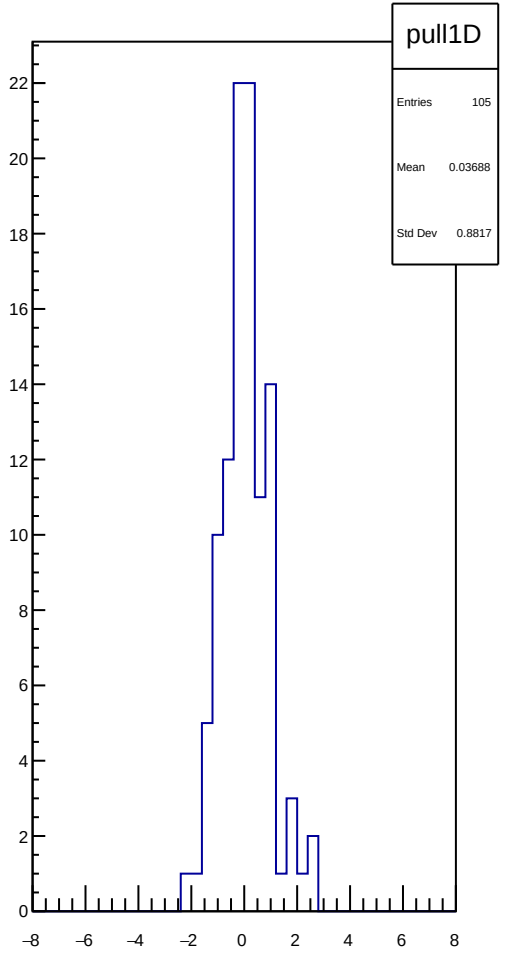

eigen_cor_asym_usl_atl2_dd_rms vs run
χ² / ndf 1.322e+06 / 104
p0 1097 ± 1.289
25000
20000
15000
10000
5000

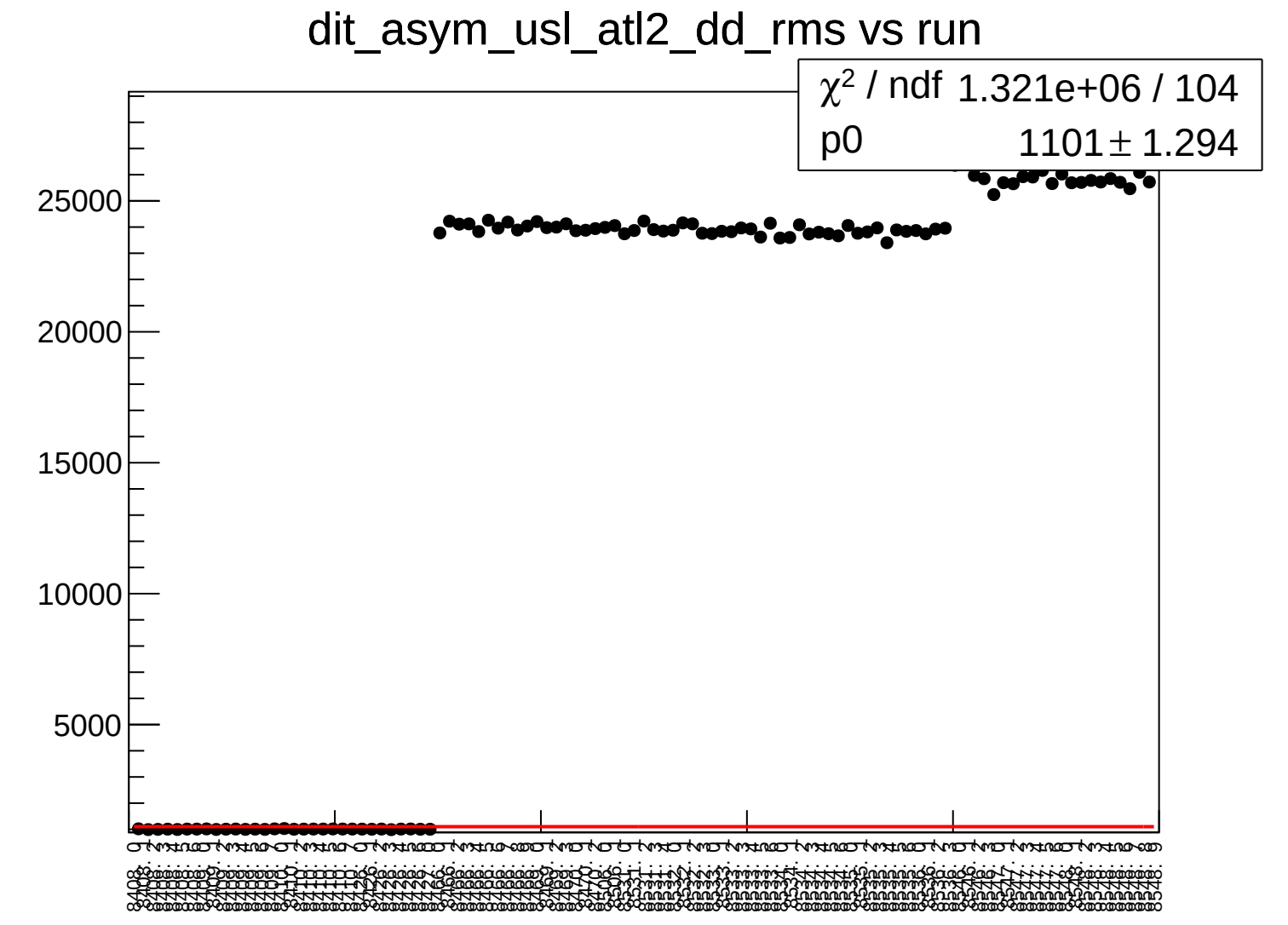

asym_usl_atl2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 110.7 / 104
p0 −989.6 ± 872.7
150
100
50
0
−50
−100
pull
Entries 105
Mean 27.05
Std Dev 29.17
3
2
1
0
−1
−2

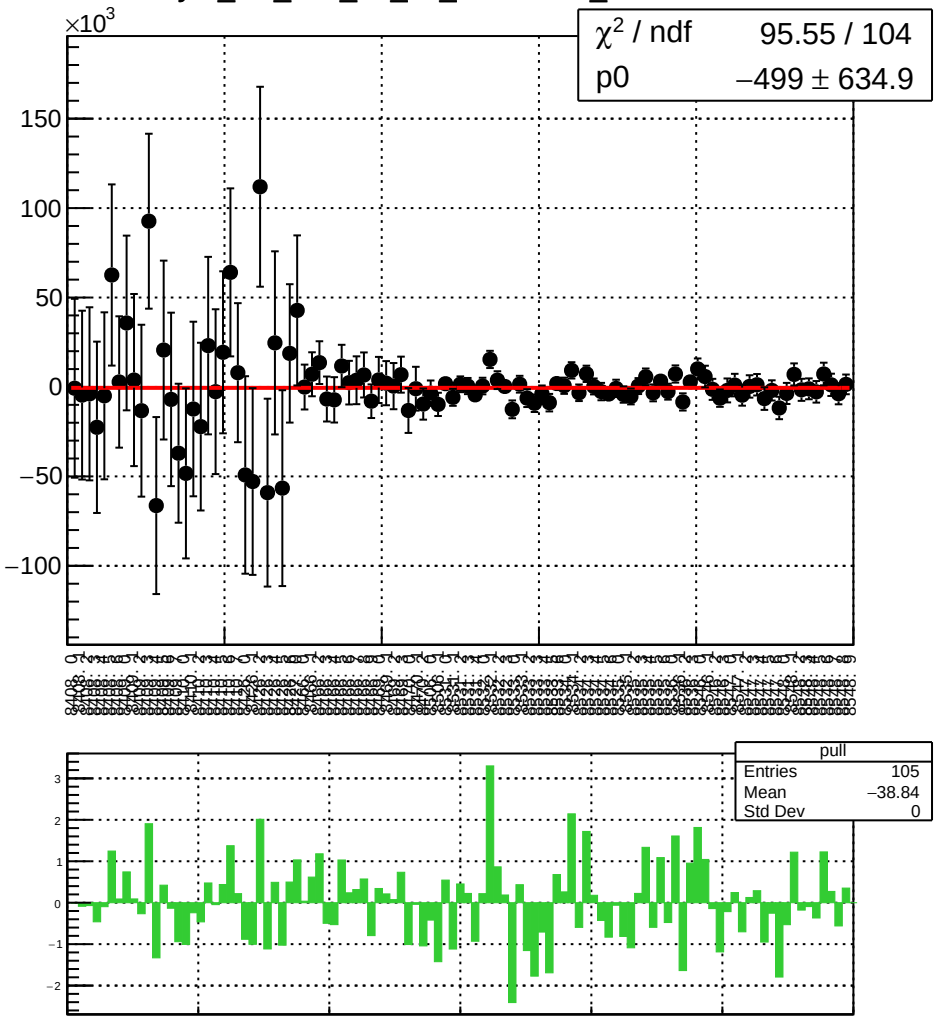

pull1D
Entries 105
Mean 0.03774
Std Dev 1.026
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

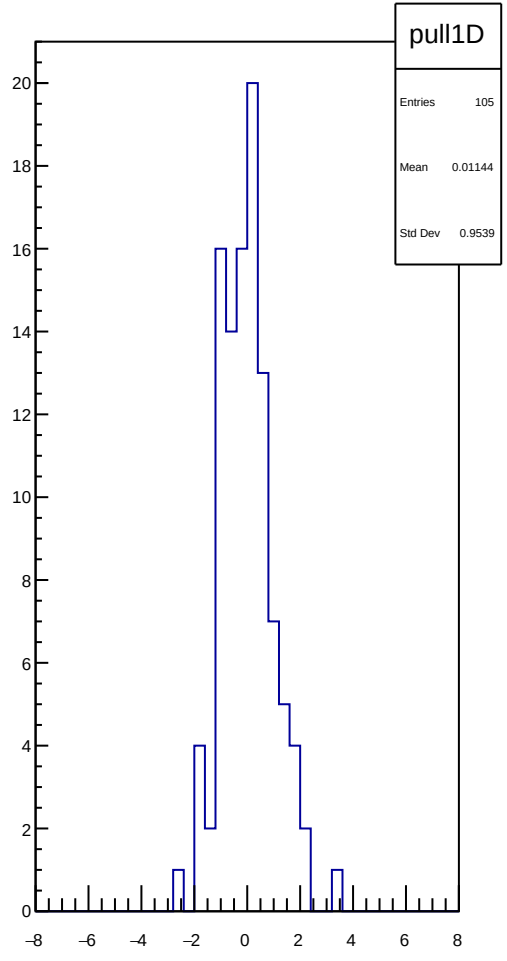

asym_usl_atl2_dd_eigen_cor_correction_rms vs run
χ² / ndf 5.496e+05 / 104
p0 754.9 ± 0.6171
5000
4000
3000
2000
1000

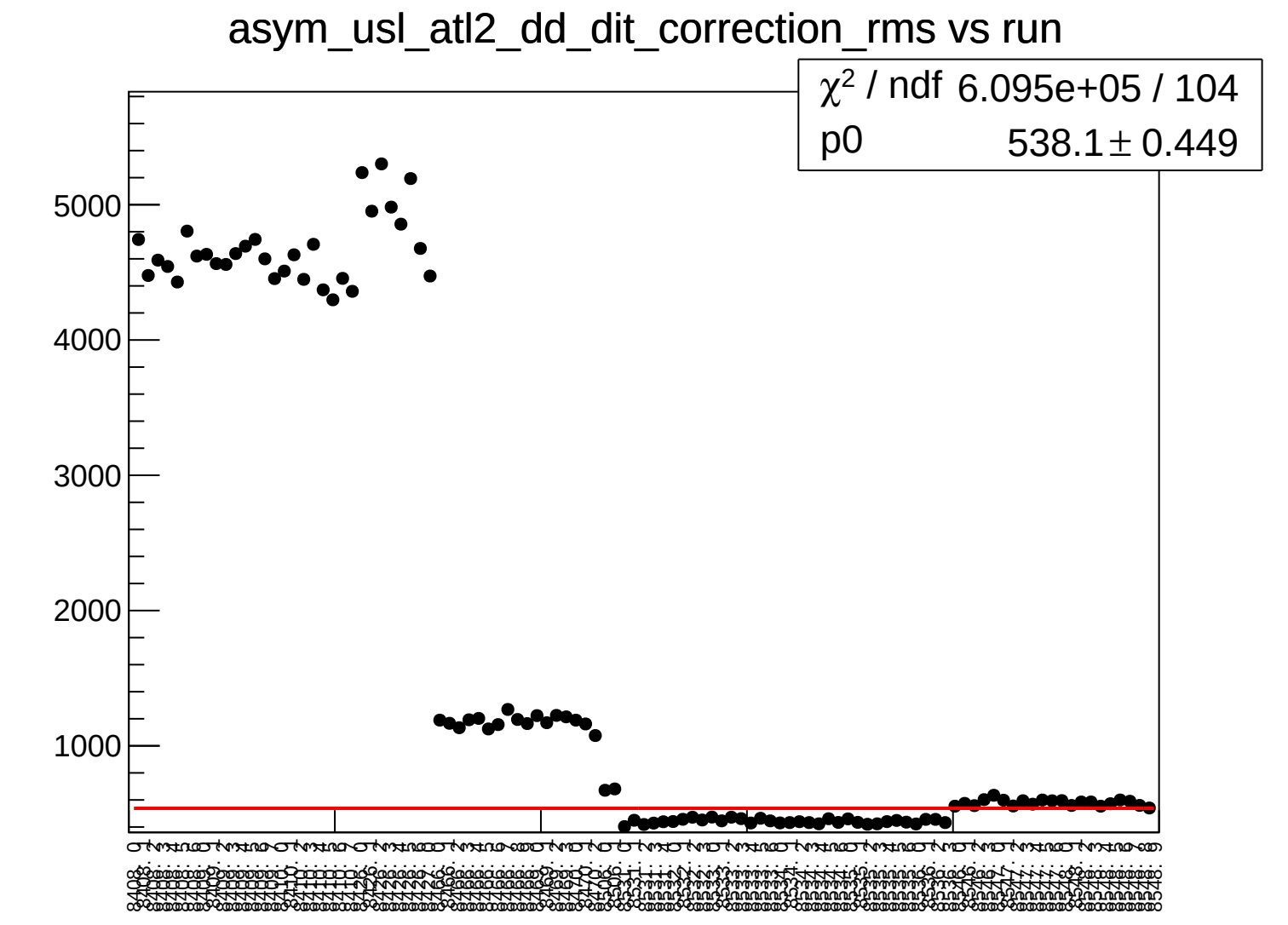

dit_asym_usl_atl2_dd_mean vs run
×10^3
χ^2 / ndf 81.77 / 104
p0 63.34 ± 1829
1000
500
0
−500
−1000
pull
Entries 105
Mean 29.4
Std Dev 0
2
1
0
−1
−2

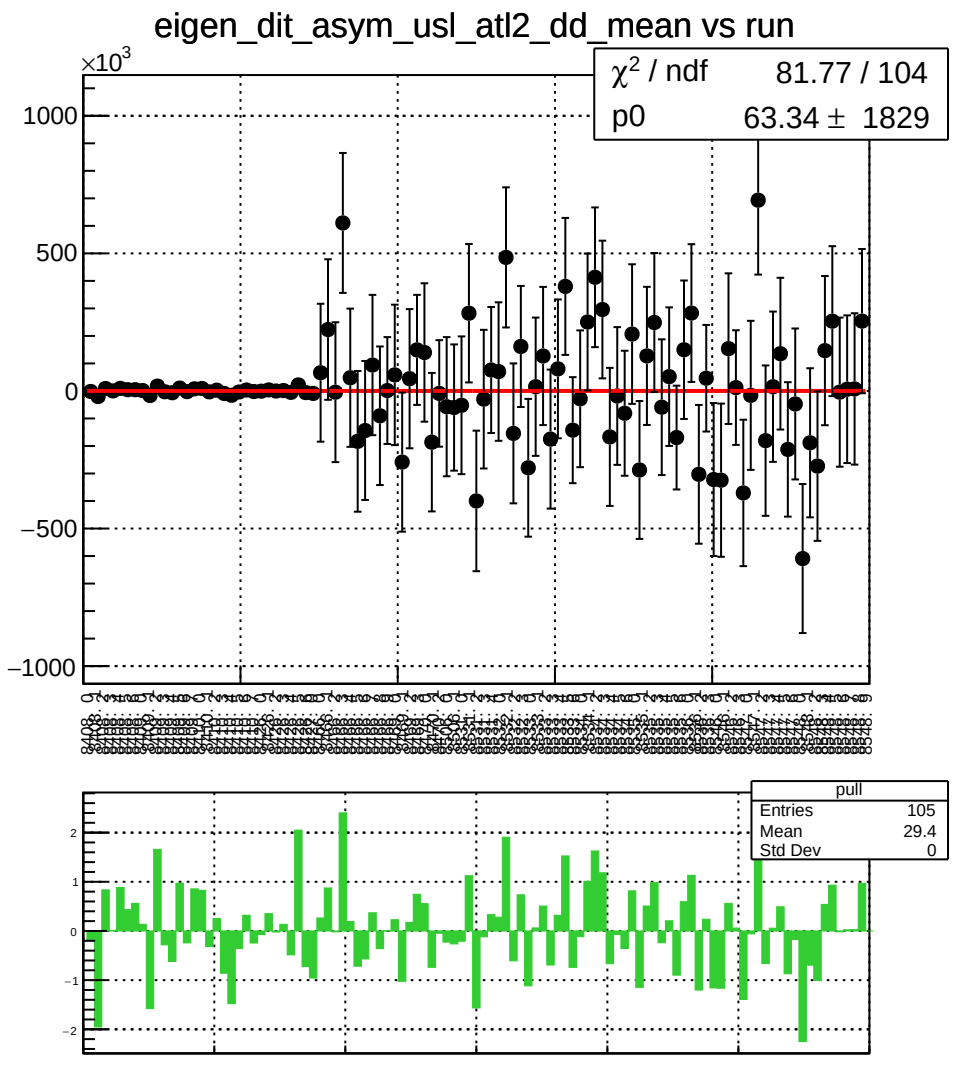

pull1D
Entries 105
Mean 0.03688
Std Dev 0.8817
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

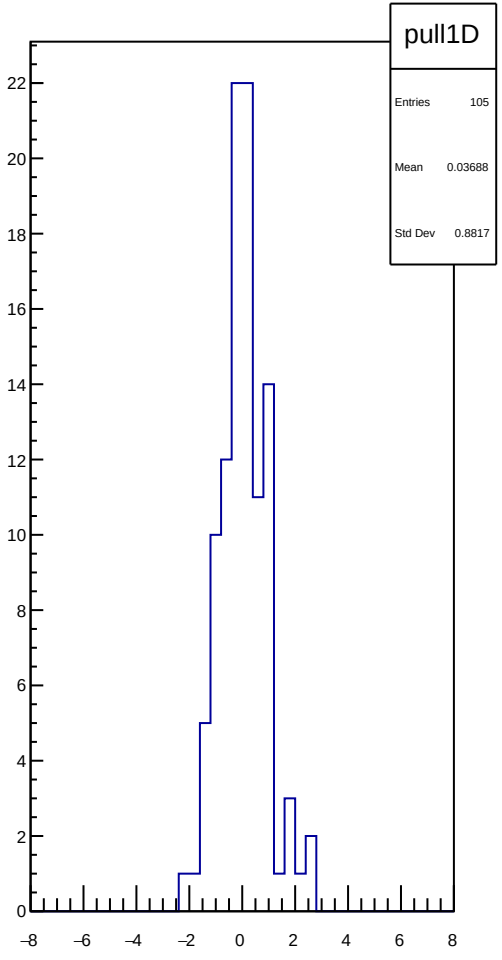

dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 1.321e+06 / 104
p0 1101 ± 1.294
25000
20000
15000
10000
5000

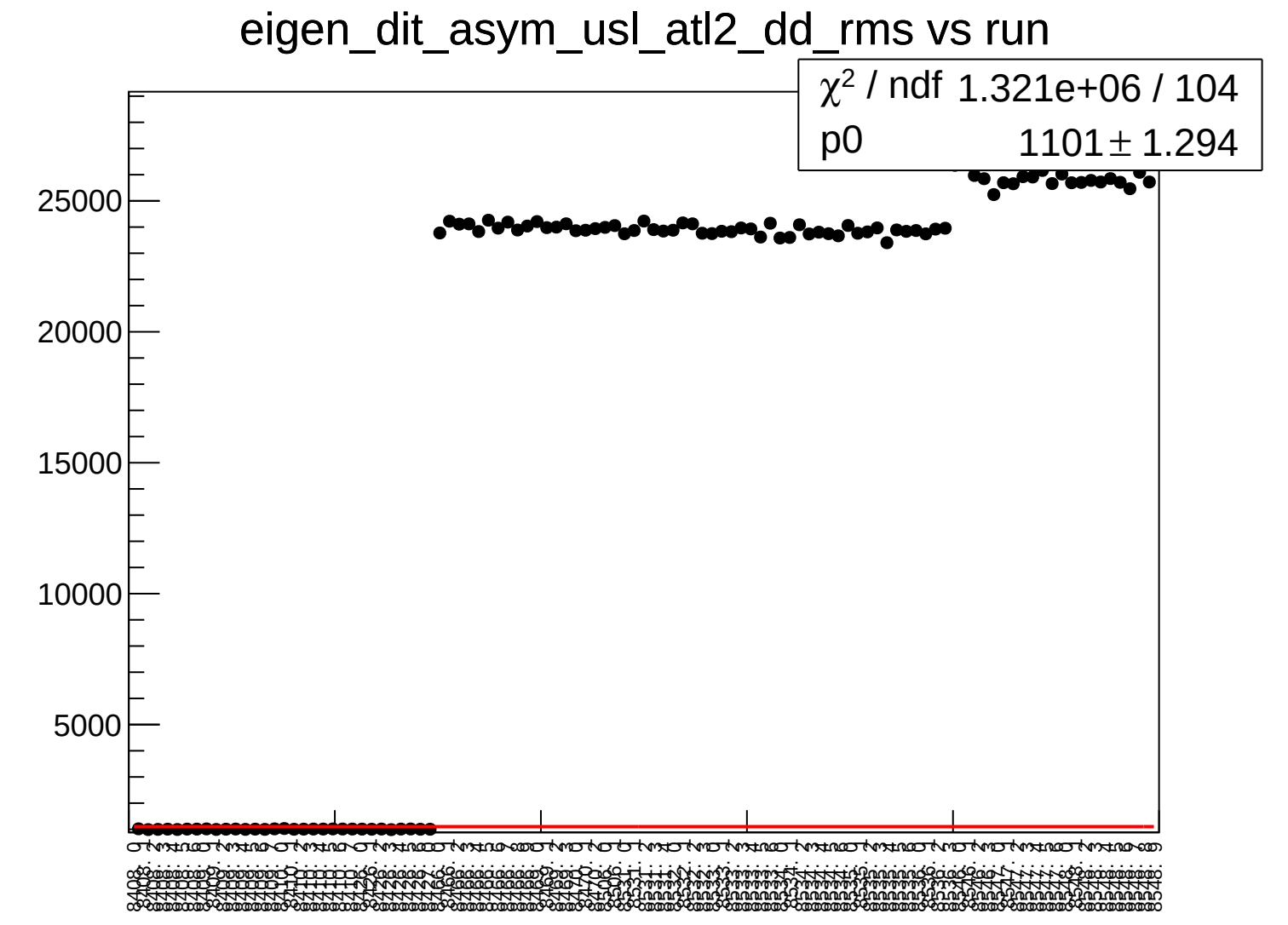

asym_usl_atl2_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 95.55 / 104
p0 −499 ± 634.9
150
100
50
0
−50
−100
pull
Entries 105
Mean −38.84
Std Dev 0
3
2
1
0
−1
−2

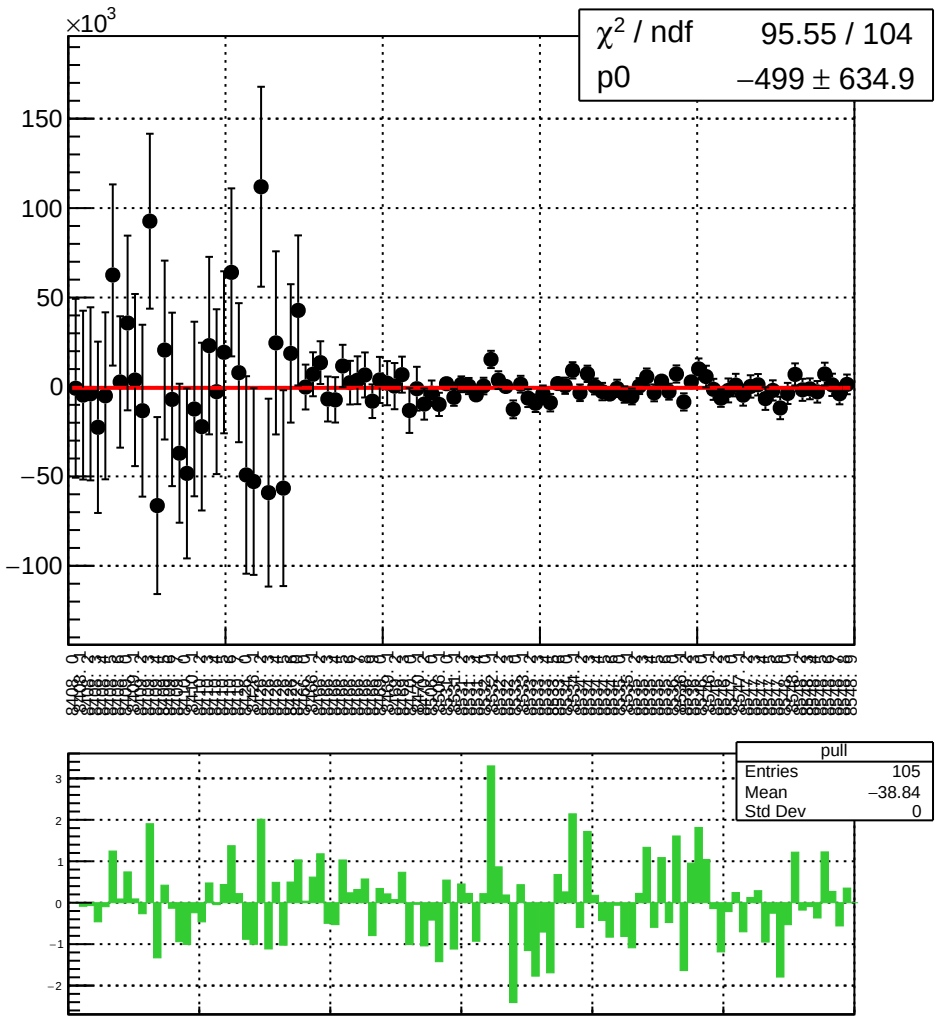

pull1D
Entries 105
Mean 0.01144
Std Dev 0.9539
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

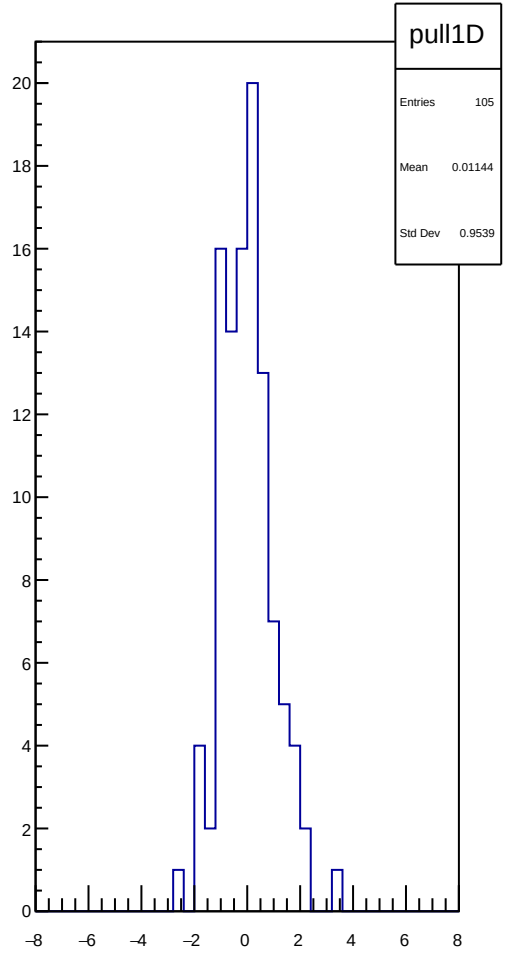

asym_usl_atl2_dd_dit_correction_rms vs run
χ² / ndf 6.095e+05 / 104
p0 538.1 ± 0.449
5000
4000
3000
2000
1000

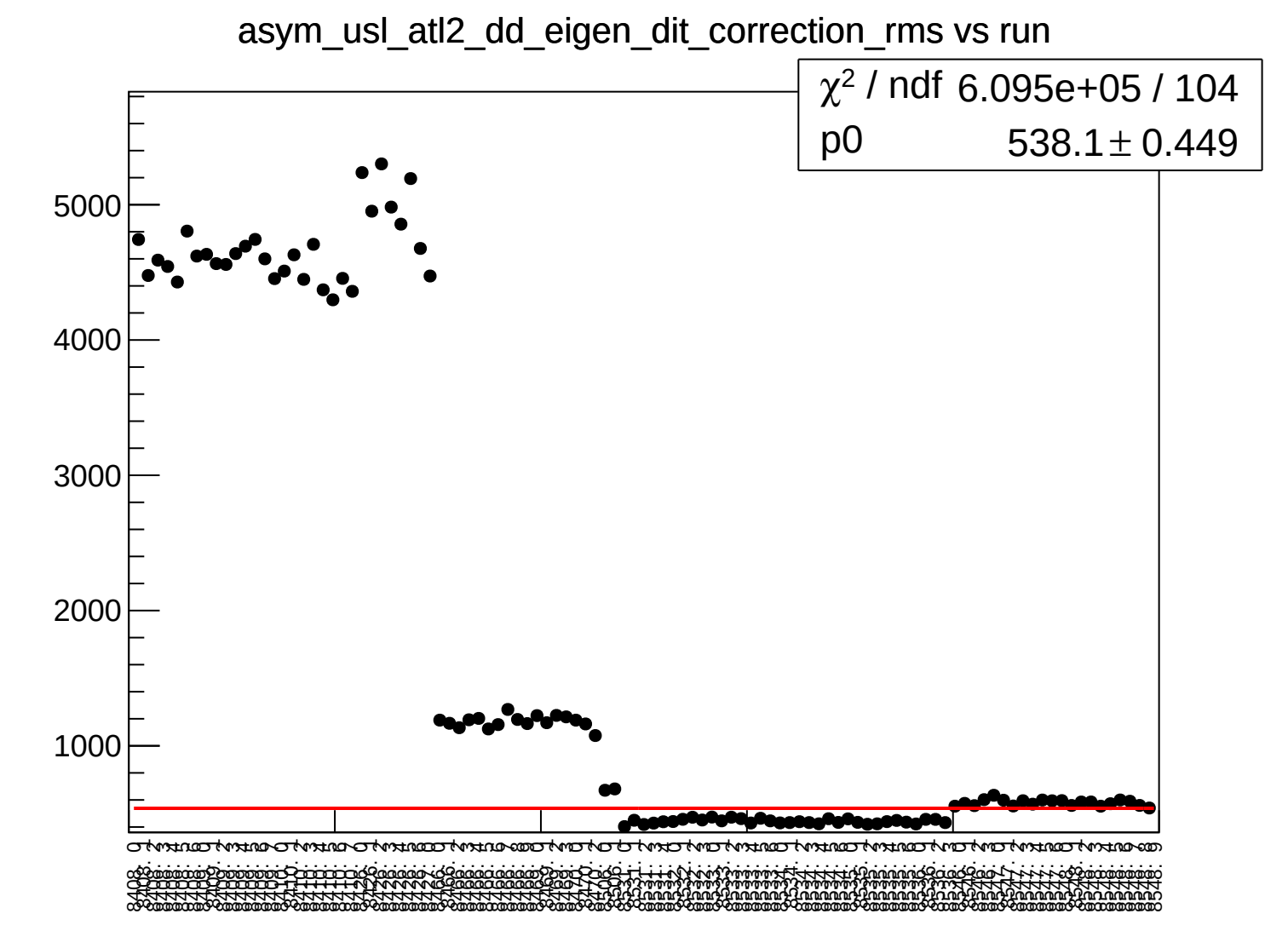

eigen_dit_asym_usl_atl2_dd_mean vs run
×10^3
χ^2 / ndf 81.77 / 104
p0 63.34 ± 1829
1000
500
0
−500
−1000
pull
Entries 105
Mean 29.4
Std Dev 0
2
1
0
−1
−2

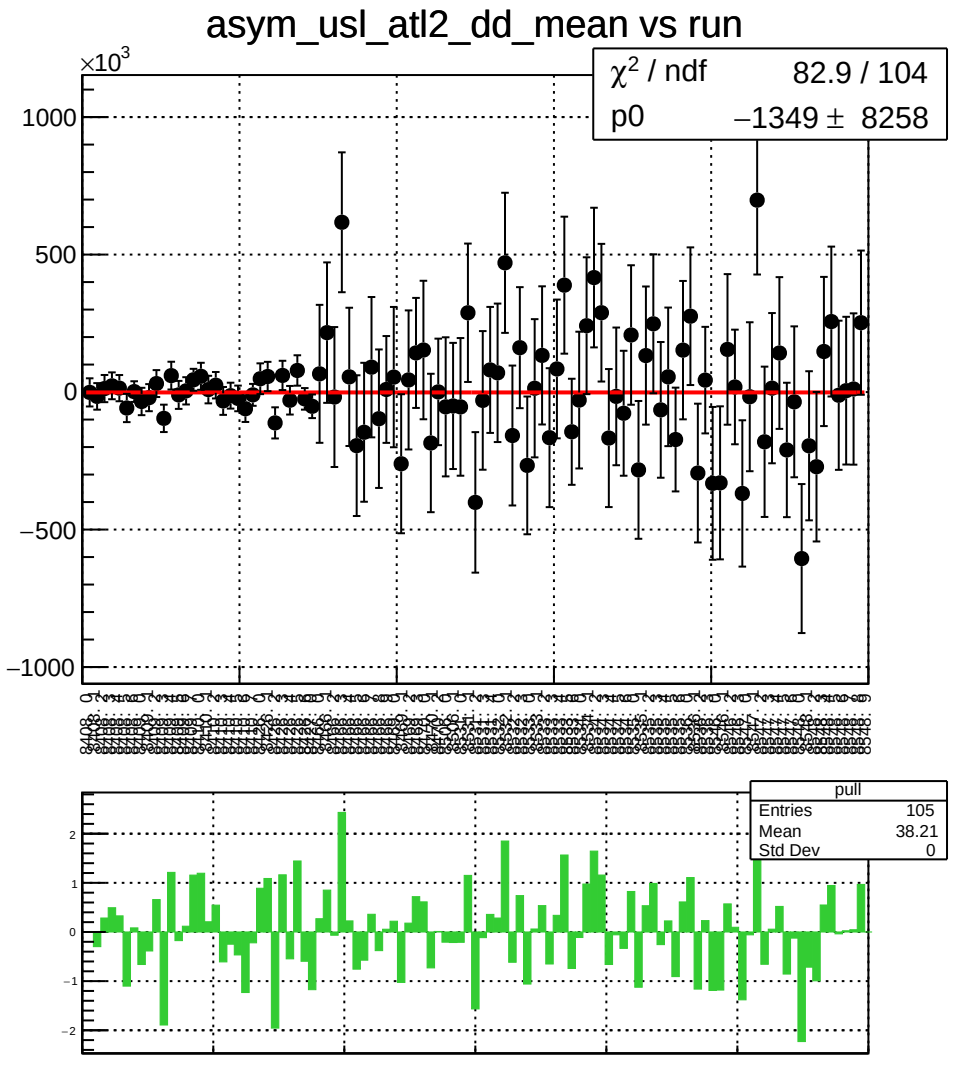

pull1D
Entries 105
Mean 0.03688
Std Dev 0.8817
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

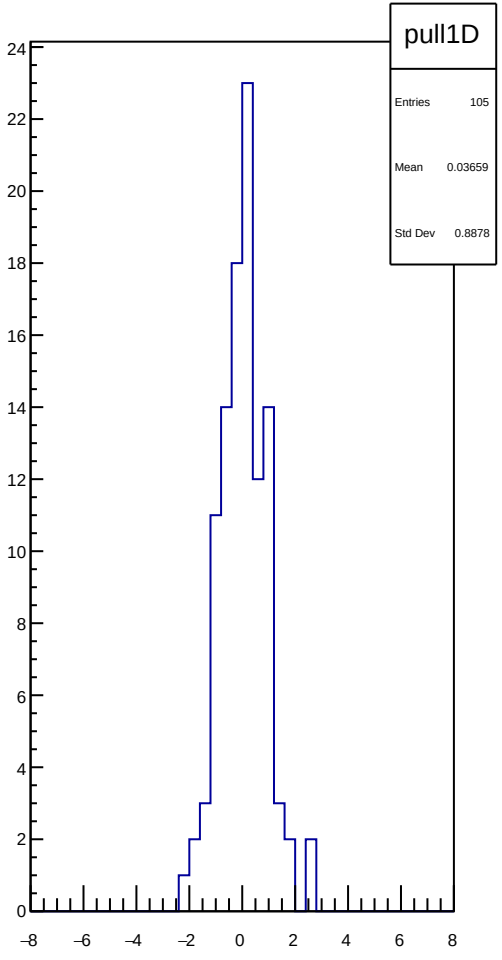

eigen_dit_asym_usl_atl2_dd_rms vs run
χ² / ndf 1.321e+06 / 104
p0 1101 ± 1.294
25000
20000
15000
10000
5000

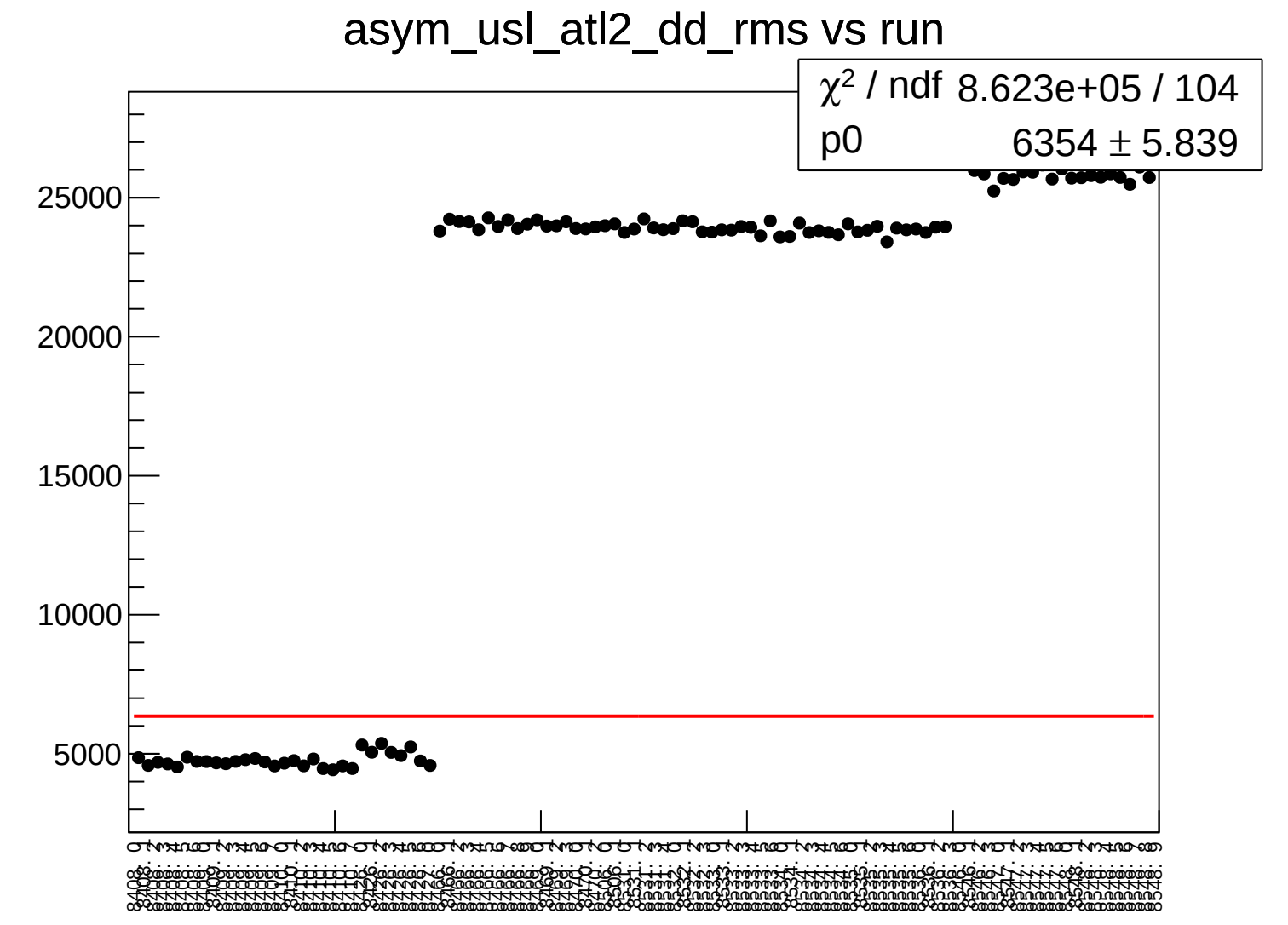

asym_usl_atl2_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 95.55 / 104
p0 −499 ± 634.9
150
100
50
0
−50
−100
pull
Entries 105
Mean −38.84
Std Dev 0
3
2
1
0
−1
−2

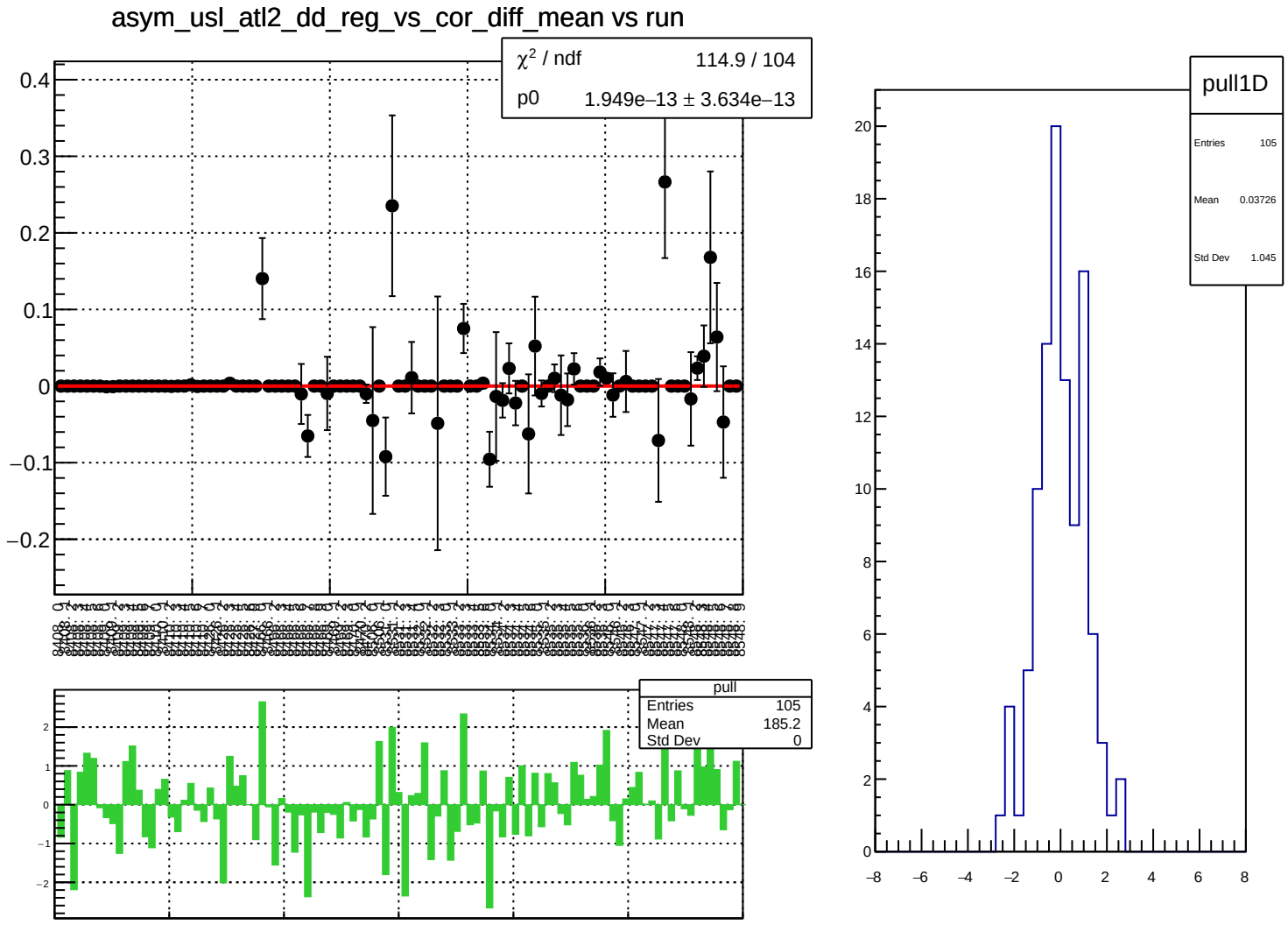

pull1D
Entries 105
Mean 0.01144
Std Dev 0.9539
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

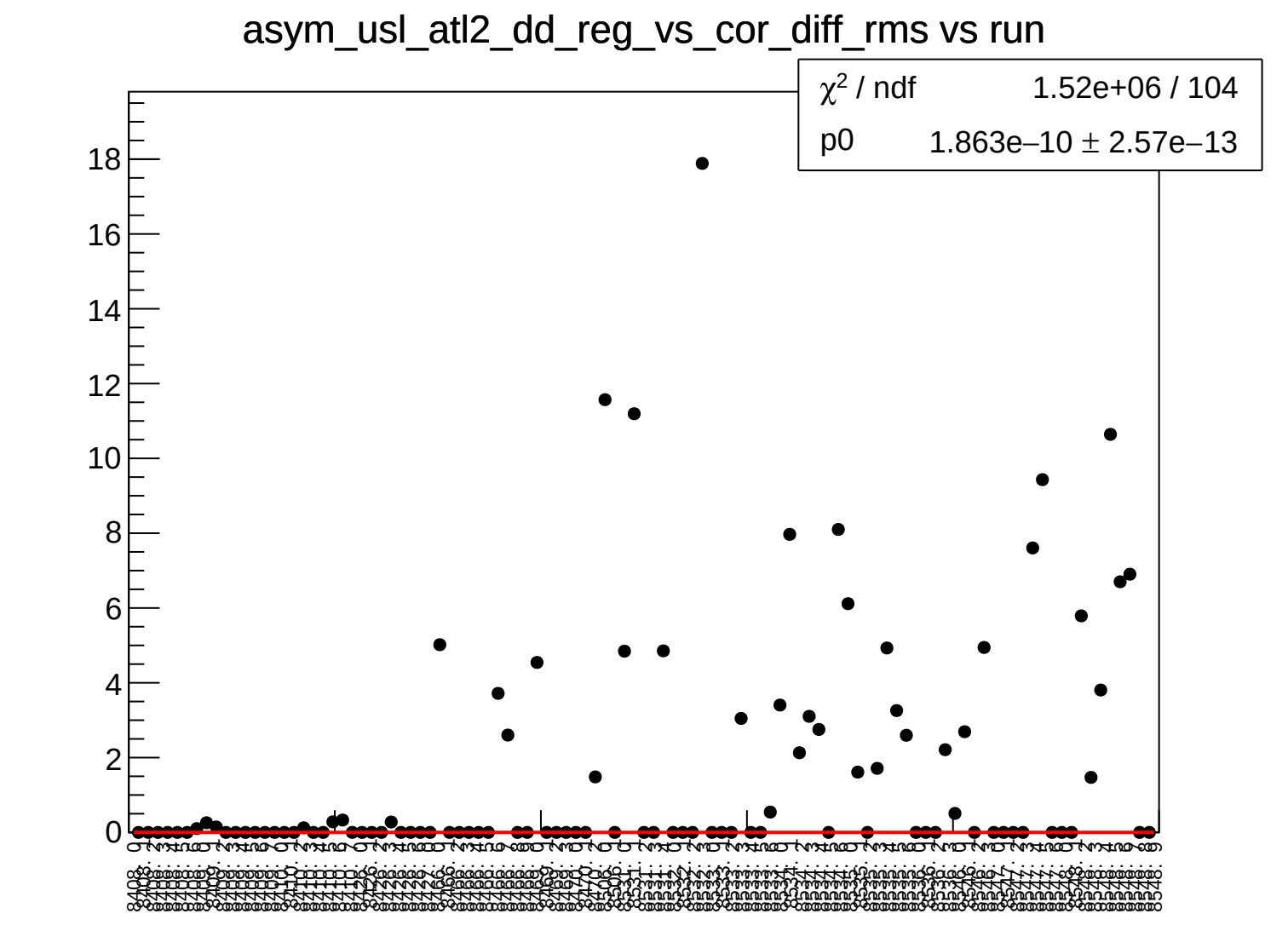

asym_usl_atl2_dd_eigen_dit_correction_rms vs run
χ² / ndf 6.095e+05 / 104
p0 538.1 ± 0.449
5000
4000
3000
2000
1000

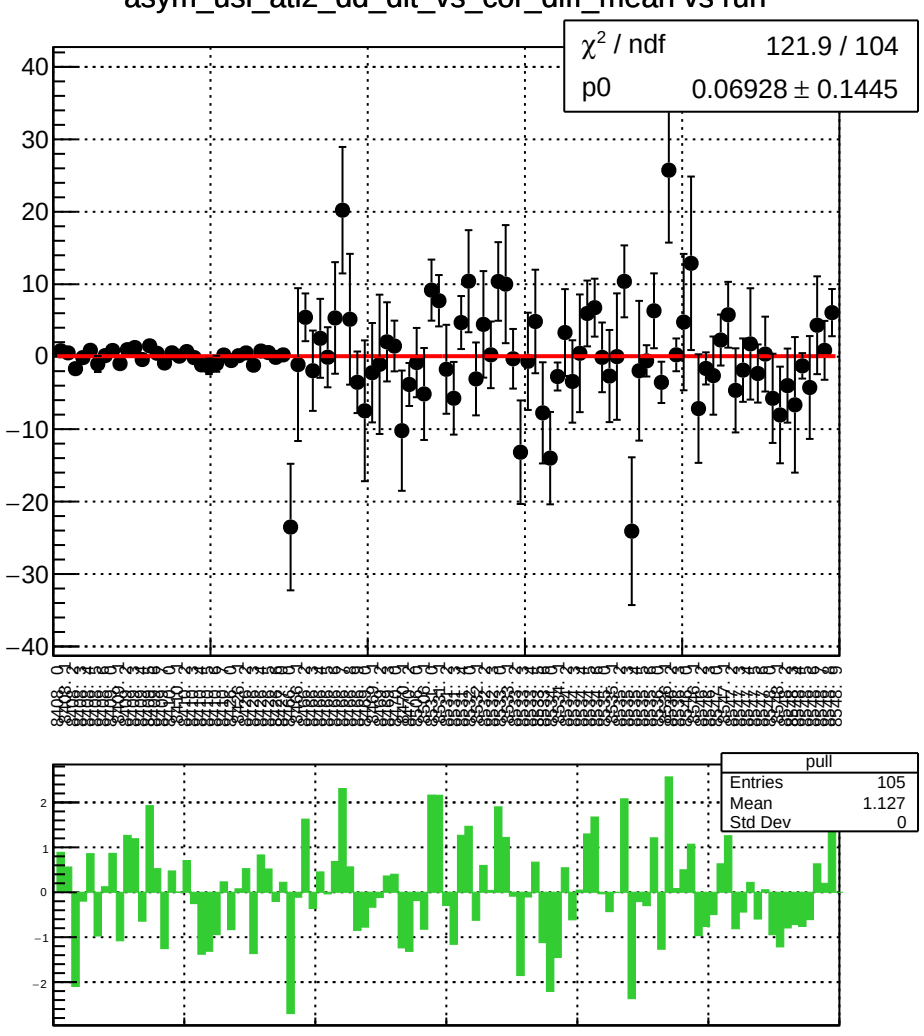

asym_usl_atl2_dd_mean vs run
×10^3
χ^2 / ndf 82.9 / 104
p0 −1349 ± 8258
1000
500
0
−500
−1000
pull
Entries 105
Mean 38.21
Std Dev 0
2
1
0
−1
−2

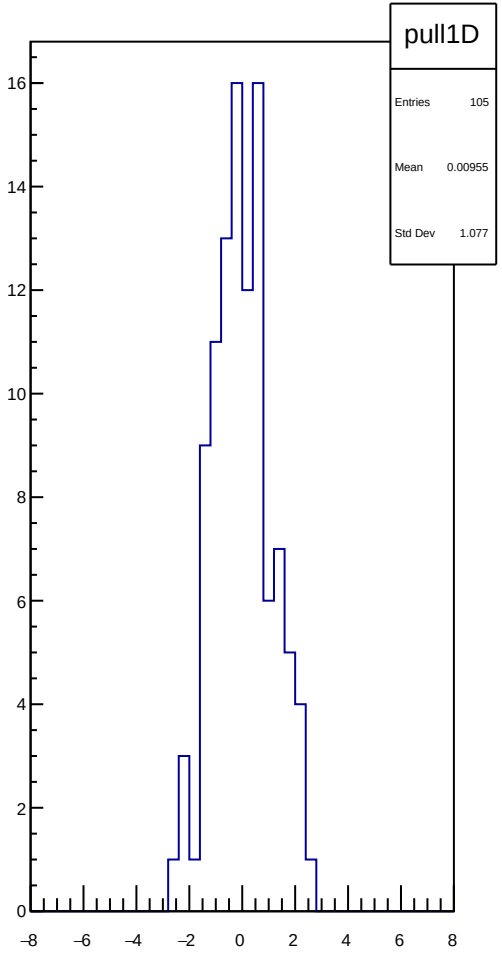

pull1D
Entries 105
Mean 0.03659
Std Dev 0.8878
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

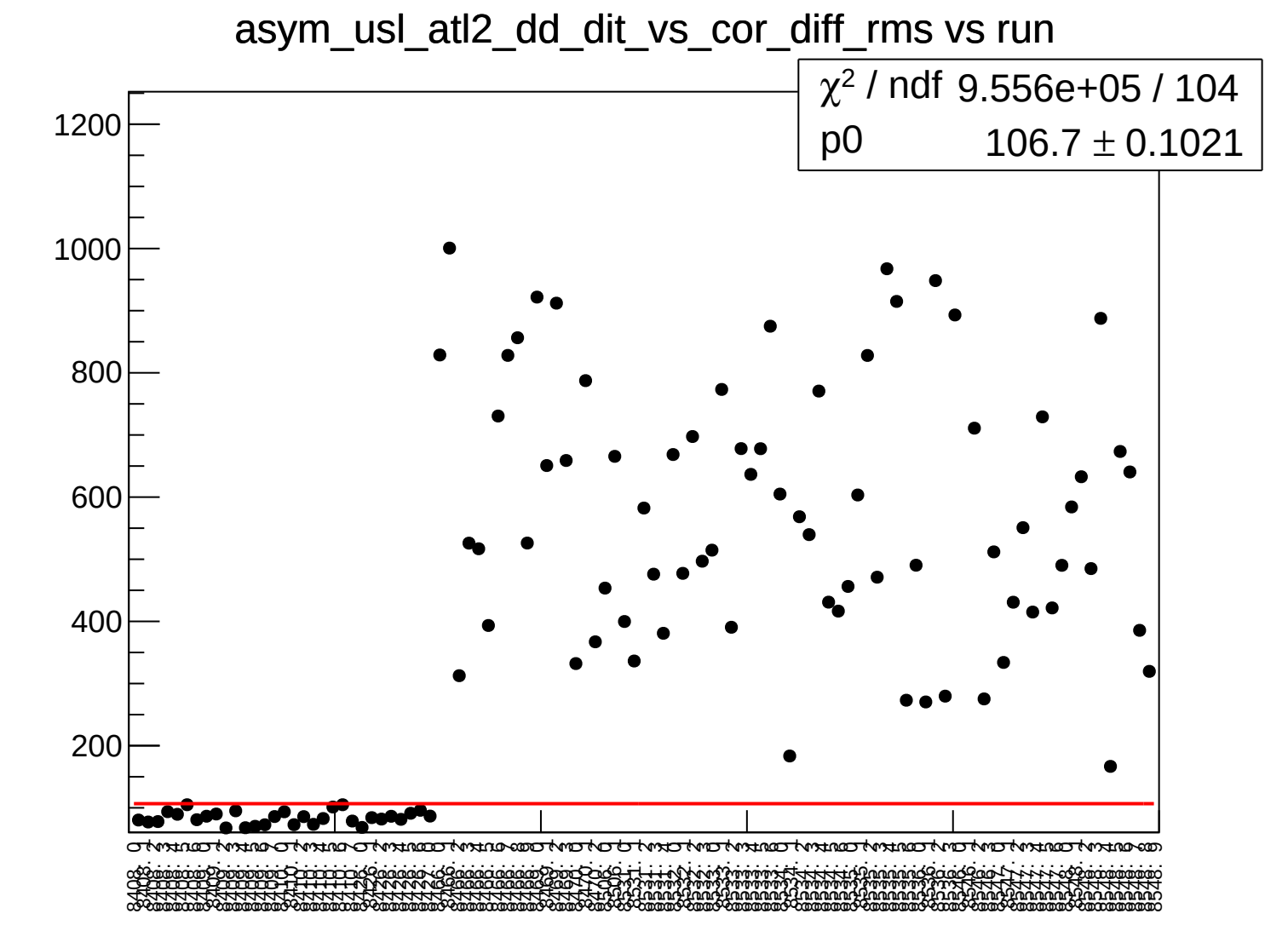

asym_usl_atl2_dd_rms vs run
χ² / ndf 8.623e+05 / 104
p0 6354 ± 5.839
25000
20000
15000
10000
5000

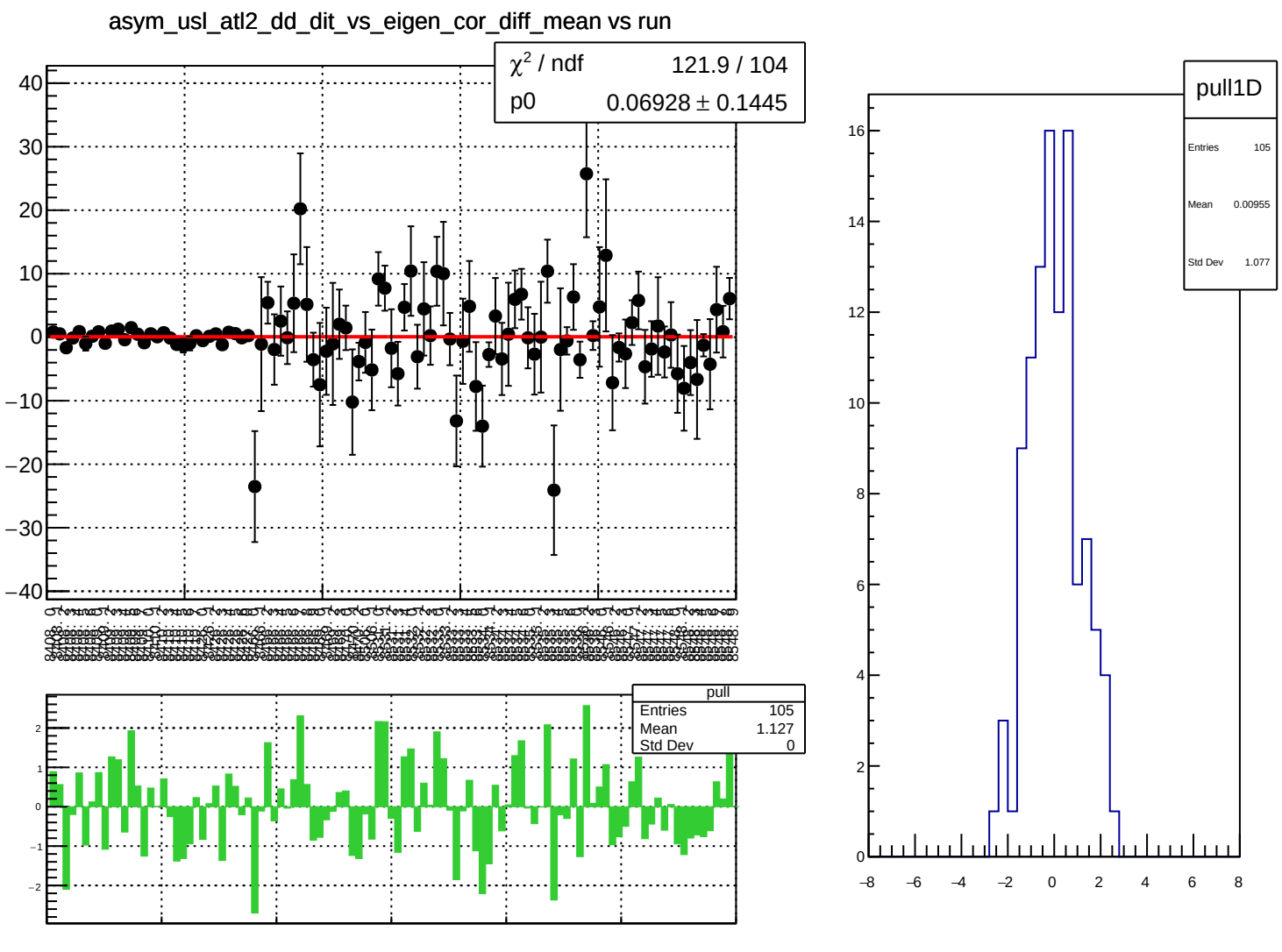

asym_usl_atl2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 114.9 / 104
p0 1.949e−13 ± 3.634e−13
pull
Entries 105
Mean 185.2
Std Dev 0
pull1D
Entries 105
Mean 0.03726
Std Dev 1.045

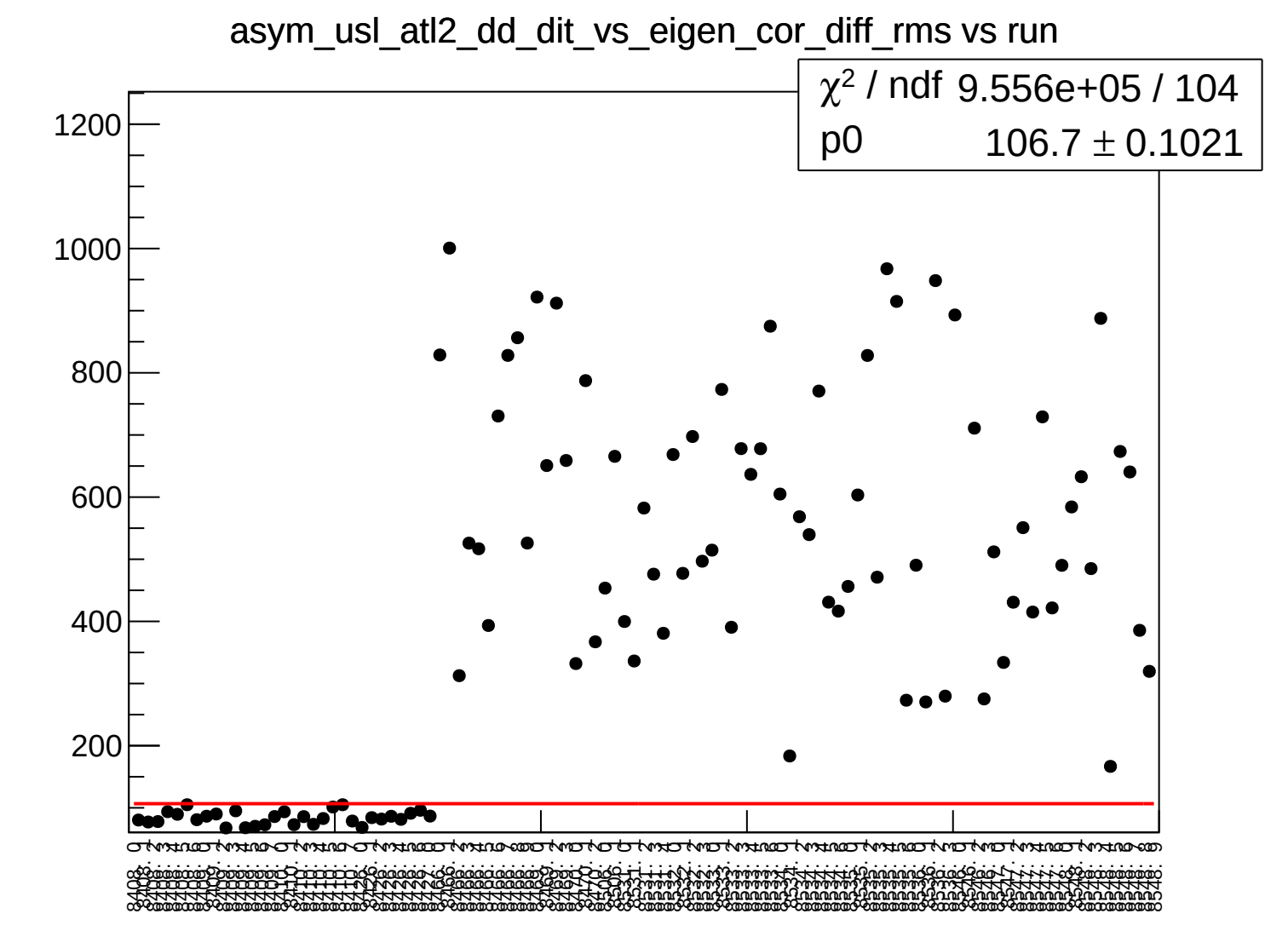

asym_usl_atl2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.52e+06 / 104
p0 1.863e−10 ± 2.57e−13
0
2
4
6
8
10
12
14
16
18

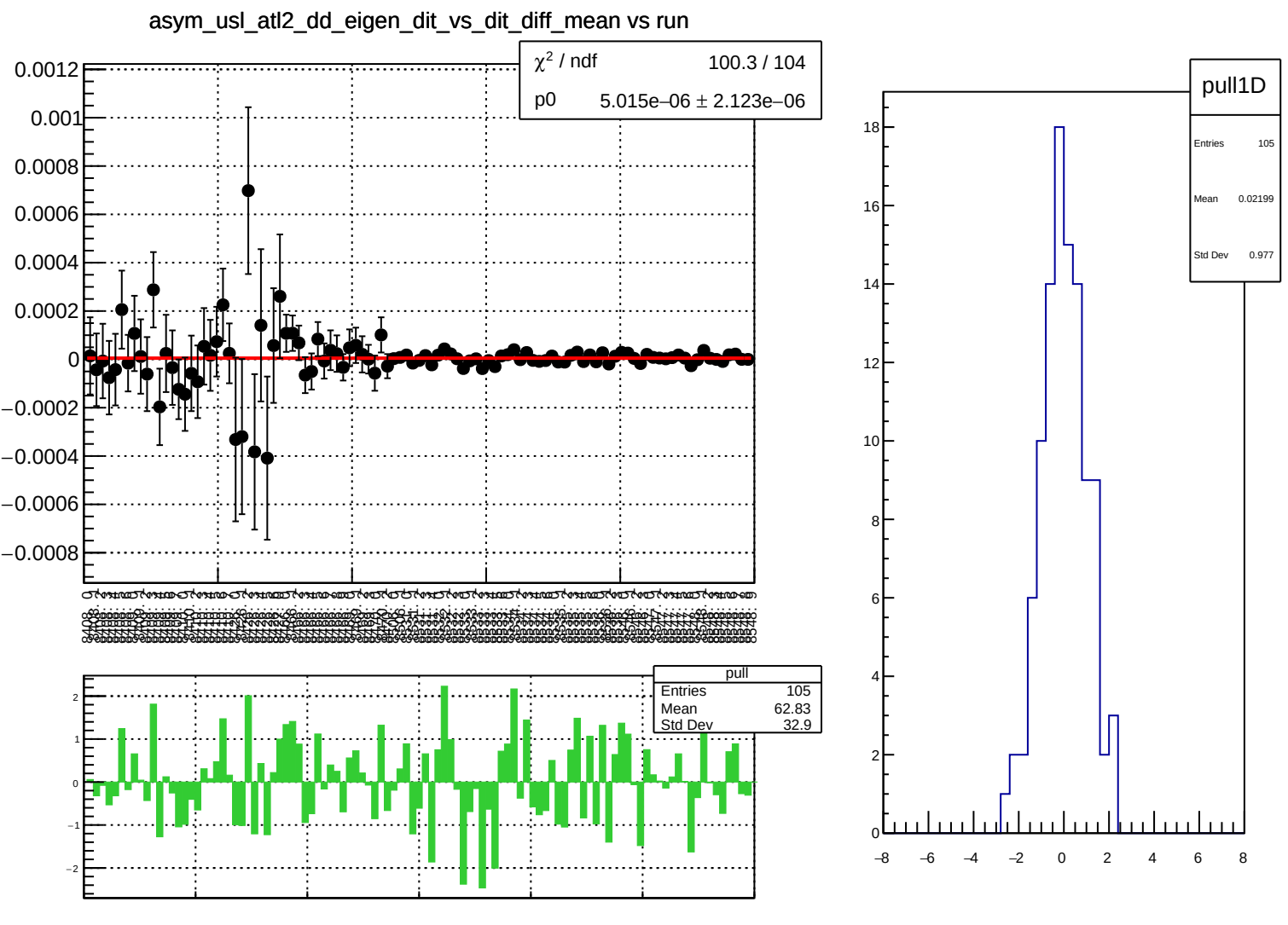

asym_usl_atl2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 121.9 / 104
p0 0.06928 ± 0.1445
pull
Entries 105
Mean 1.127
Std Dev 0

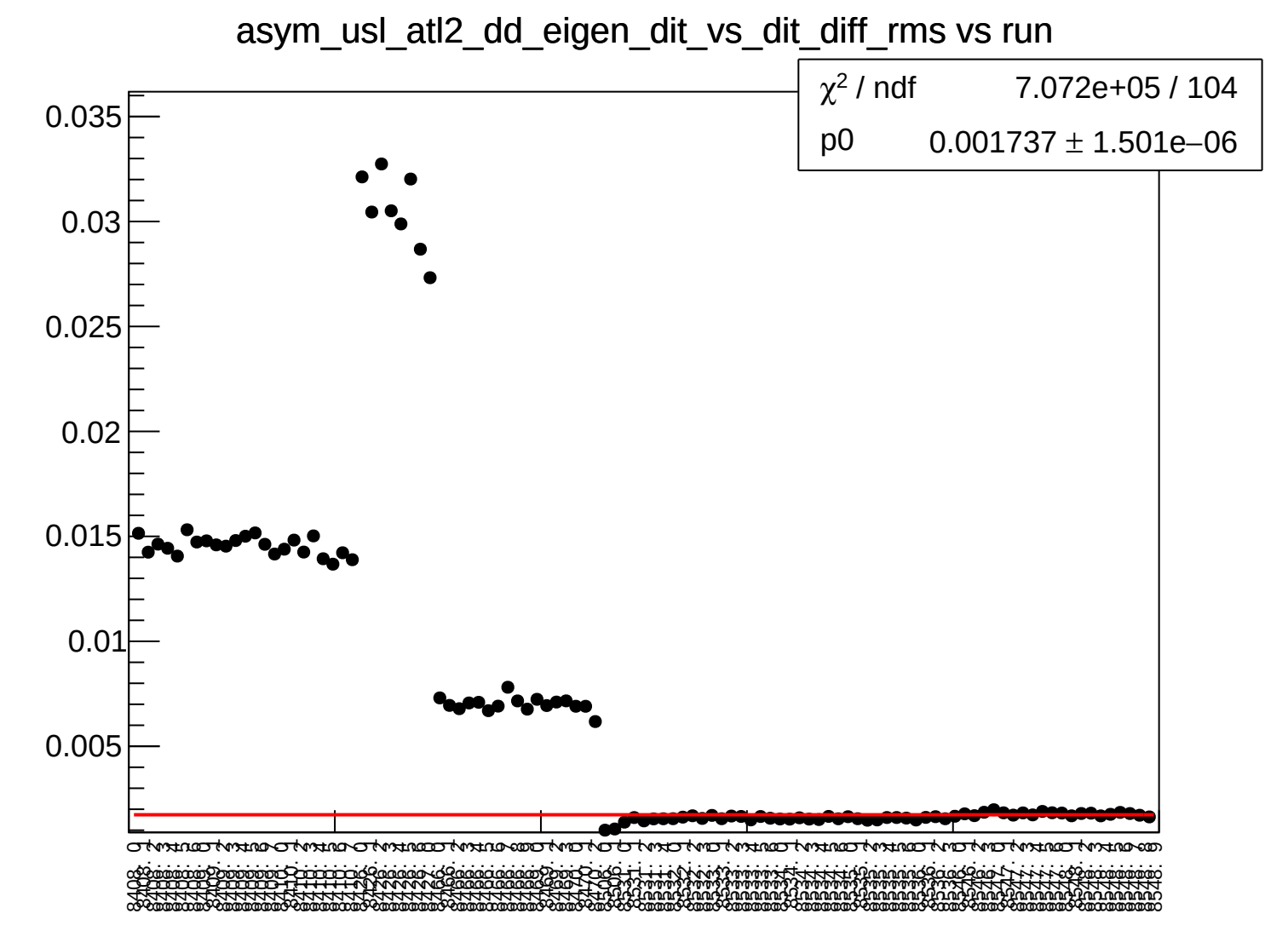

pull1D
Entries 105
Mean 0.00955
Std Dev 1.077

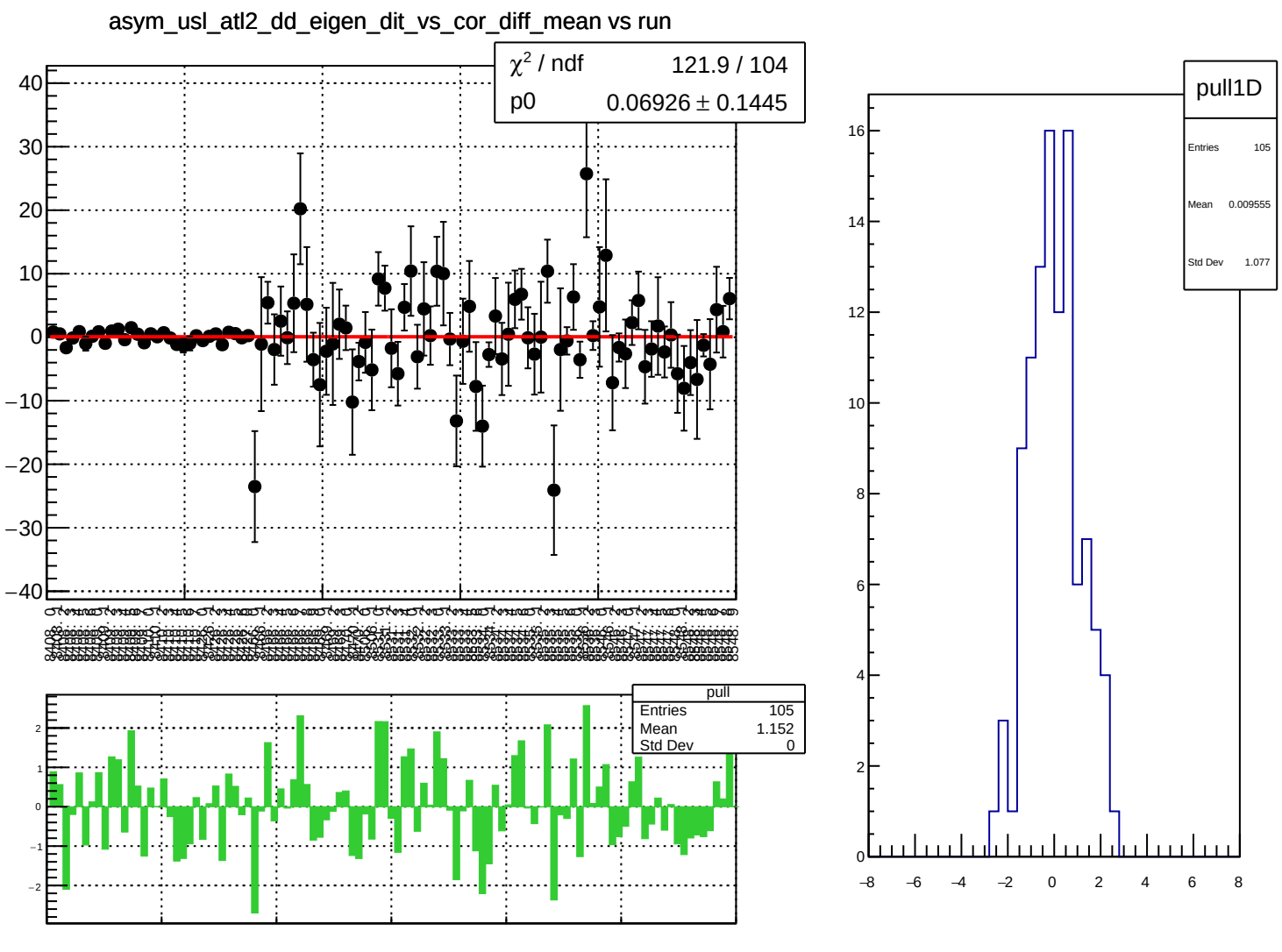

asym_usl_atl2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9.556e+05 / 104
p0 106.7 ± 0.1021
1200
1000
800
600
400
200

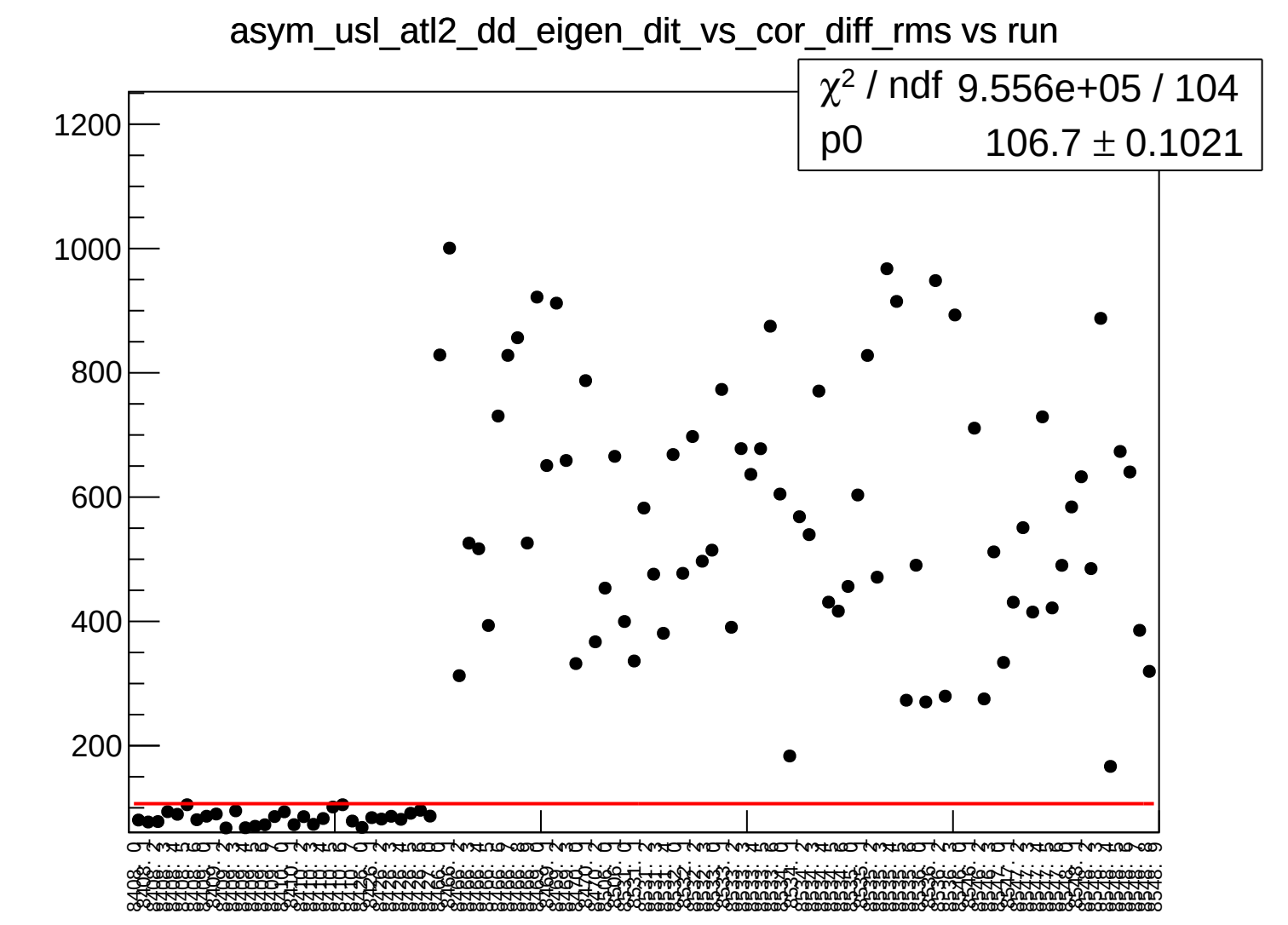

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 121.9 / 104
p0 0.06928 ± 0.1445
pull
Entries 105
Mean 1.127
Std Dev 0
pull1D
Entries 105
Mean 0.00955
Std Dev 1.077

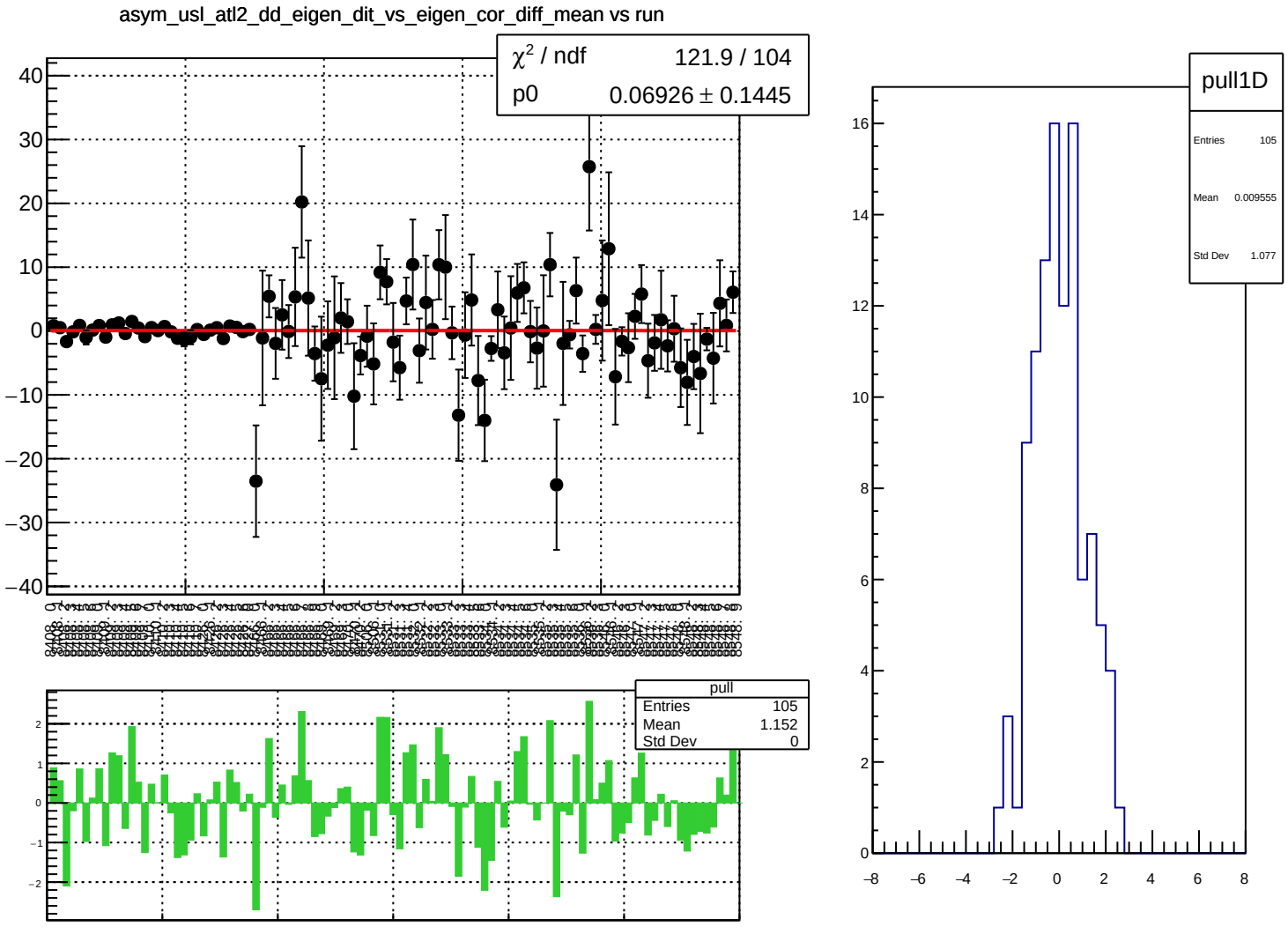

asym_usl_atl2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.556e+05 / 104
p0 106.7 ± 0.1021
1200
1000
800
600
400
200

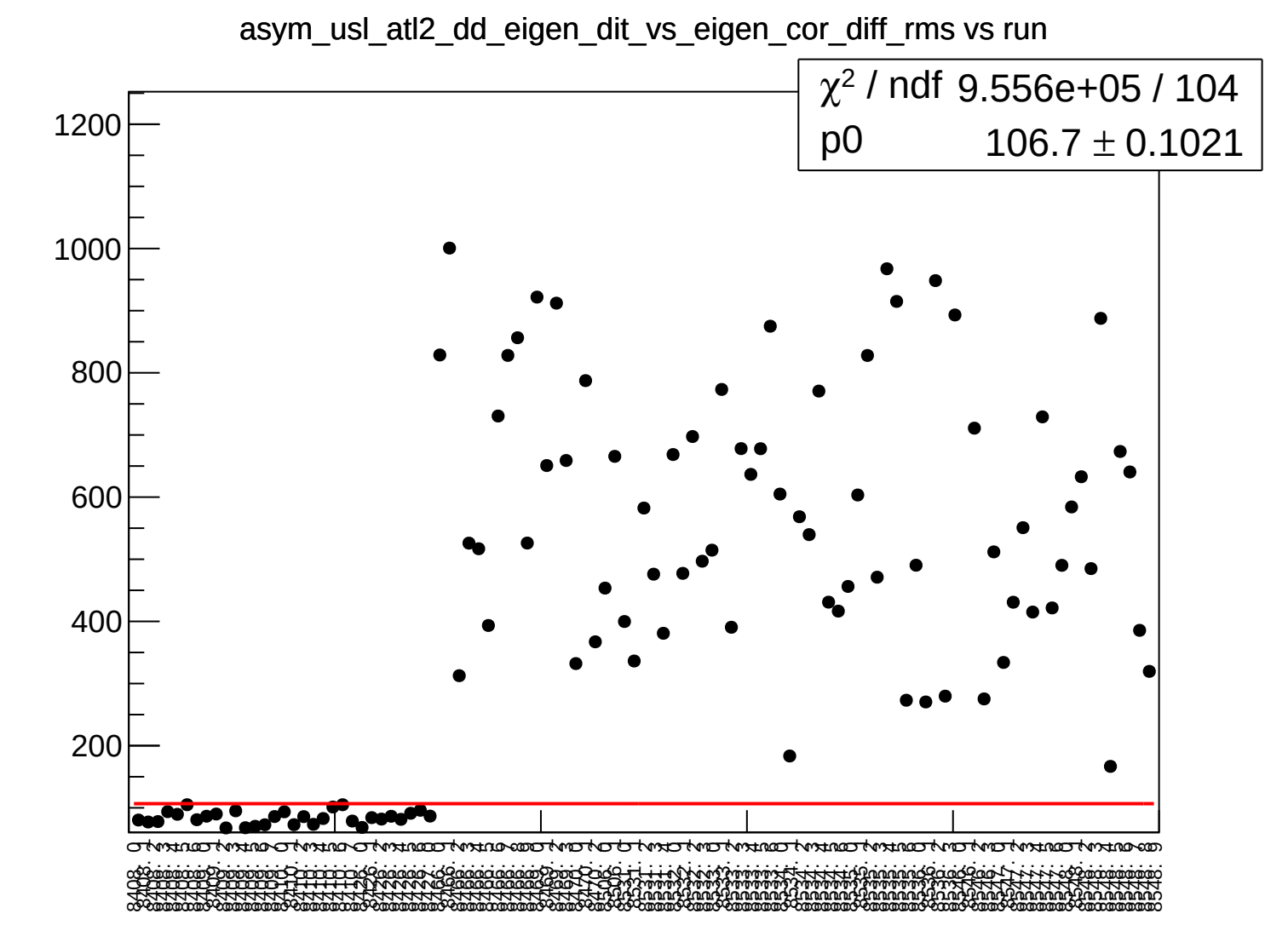

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 100.3 / 104
p0 5.015e−06 ± 2.123e−06
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
pull
Entries 105
Mean 62.83
Std Dev 32.9
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.02199
Std Dev 0.977
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

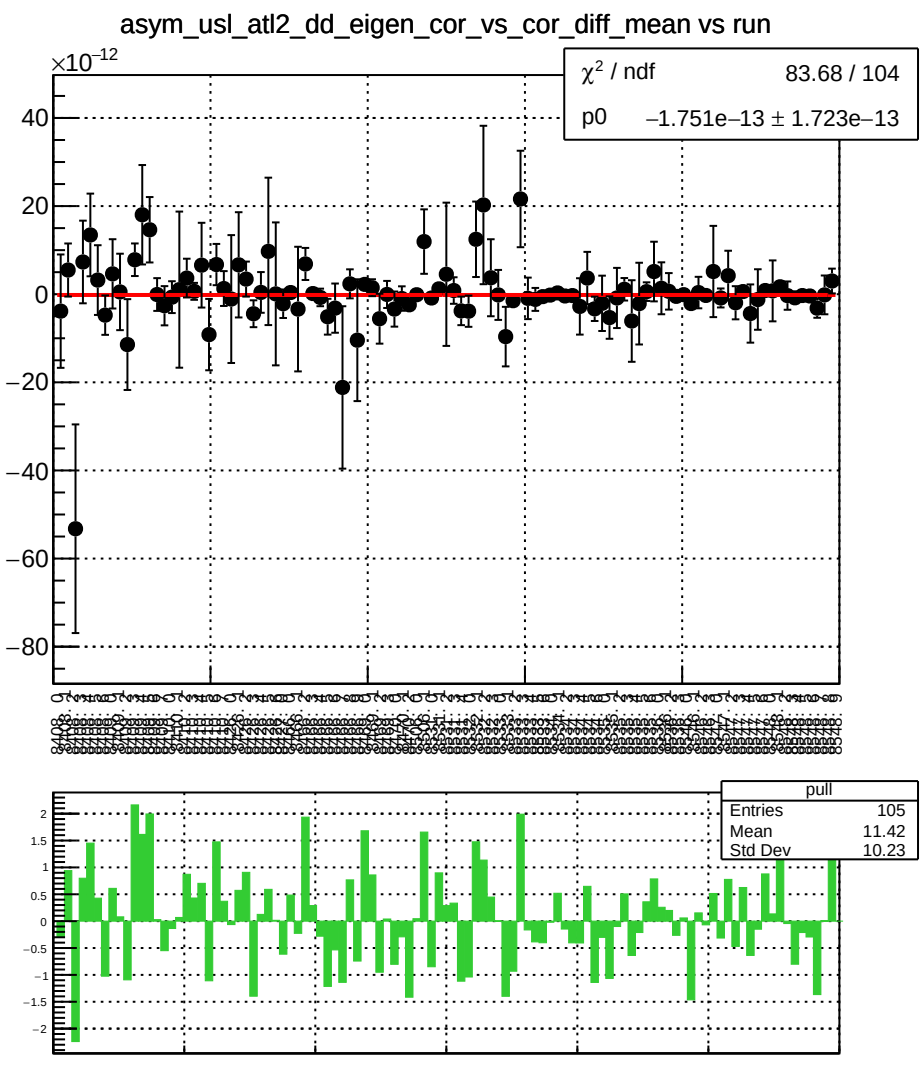

asym_usl_atl2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.072e+05 / 104
p0 0.001737 ± 1.501e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

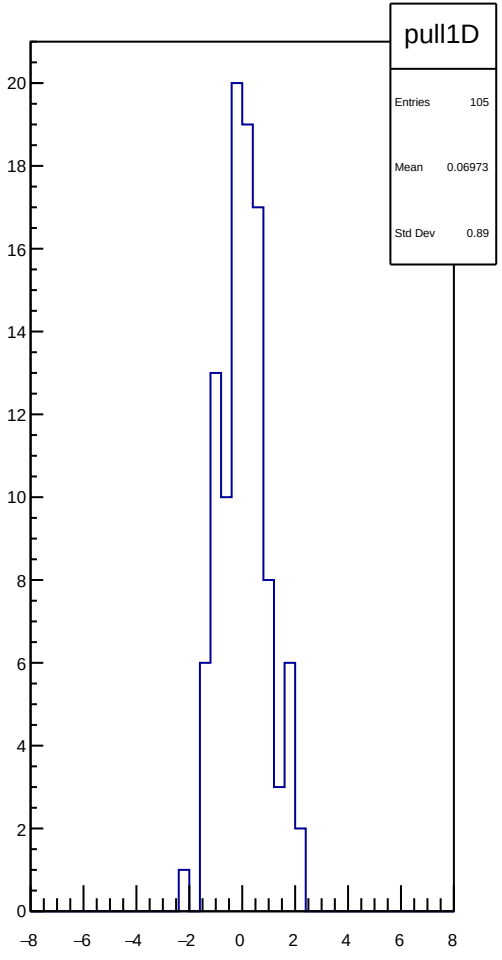

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 121.9 / 104
p0 0.06926 ± 0.1445
pull
Entries 105
Mean 1.152
Std Dev 0
pull1D
Entries 105
Mean 0.009555
Std Dev 1.077

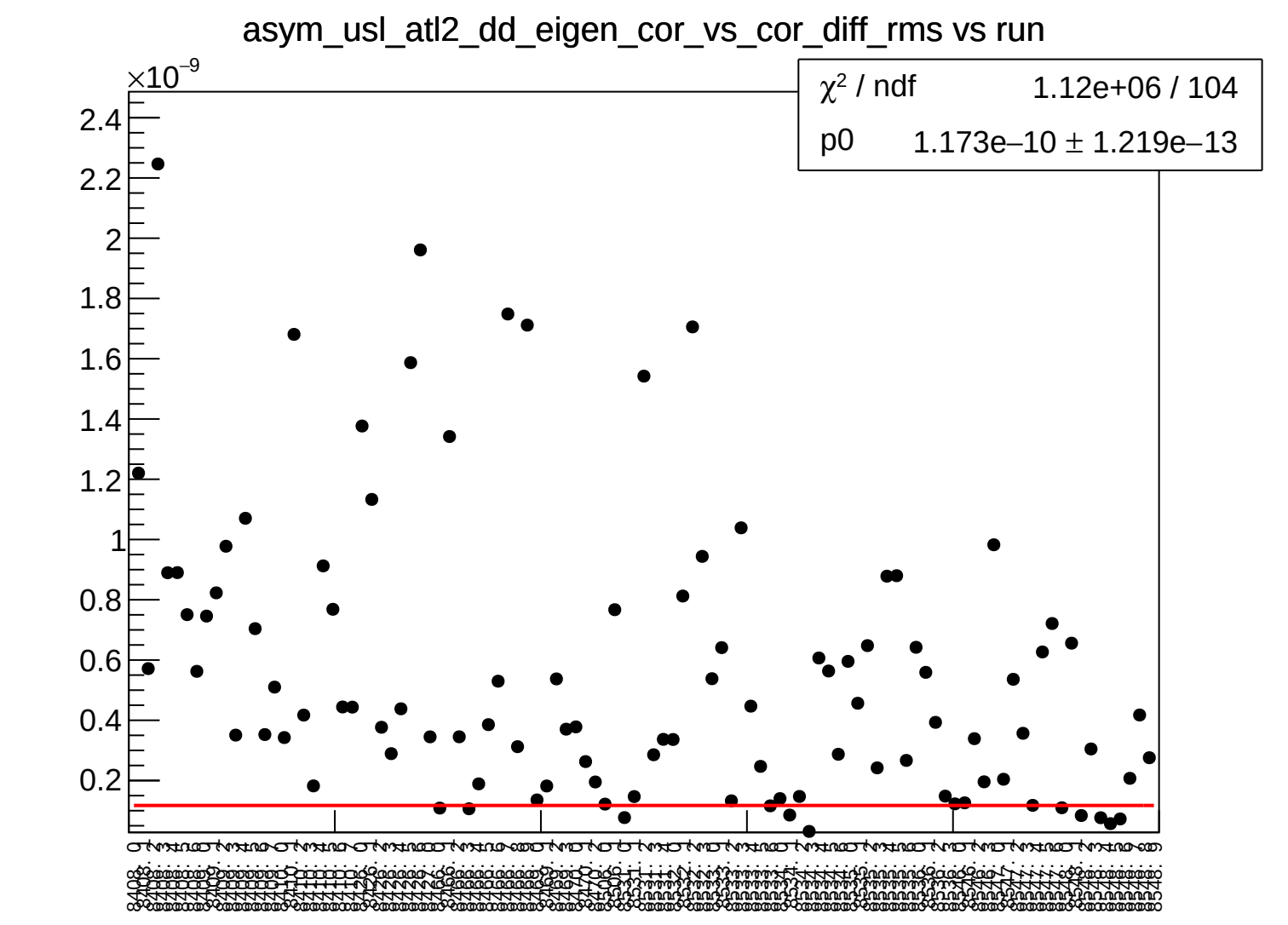

asym_usl_atl2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.556e+05 / 104
p0 106.7 ± 0.1021
1200
1000
800
600
400
200

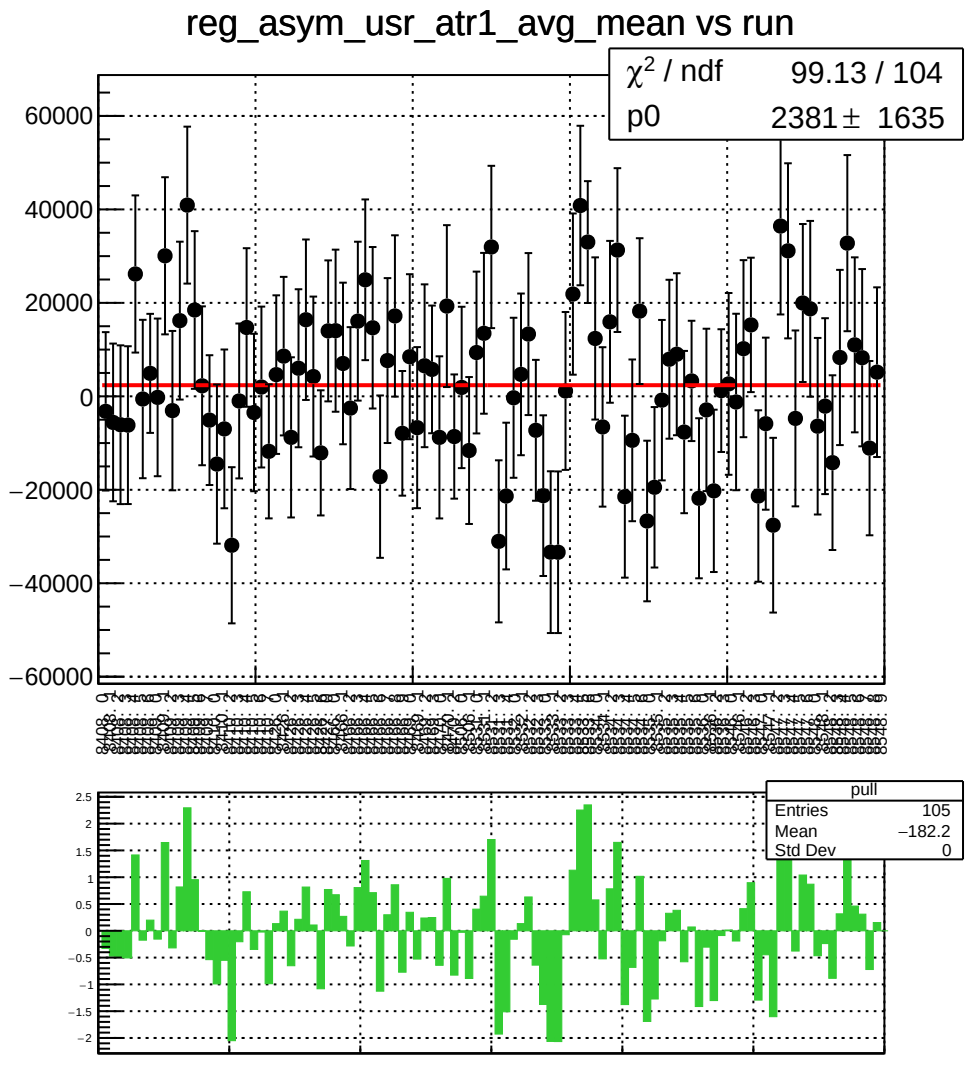

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 121.9 / 104
p0 0.06926 ± 0.1445
pull
Entries 105
Mean 1.152
Std Dev 0
pull1D
Entries 105
Mean 0.009555
Std Dev 1.077

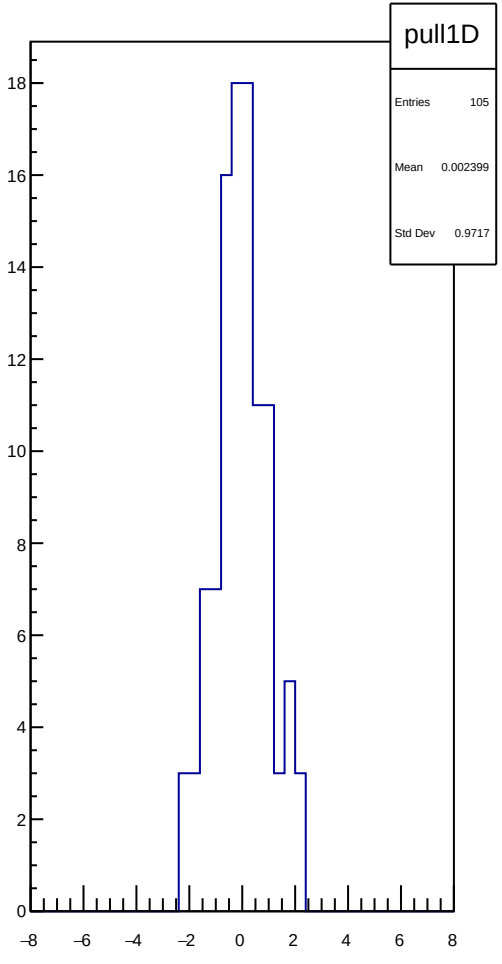

asym_usl_atl2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.556e+05 / 104
p0 106.7 ± 0.1021
1200
1000
800
600
400
200

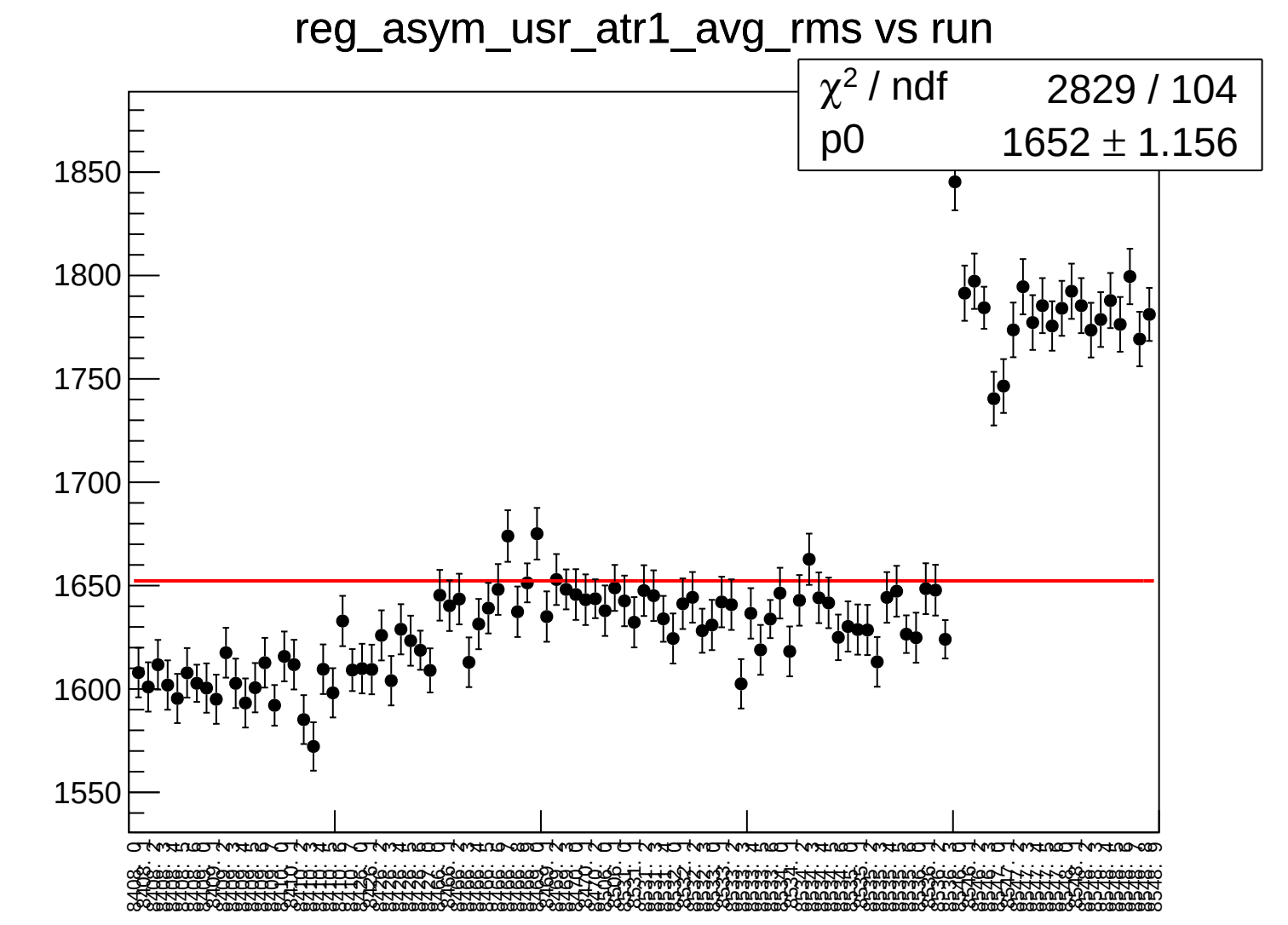

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 83.68 / 104
p0 −1.751e−13 ± 1.723e−13
pull
Entries 105
Mean 11.42
Std Dev 10.23

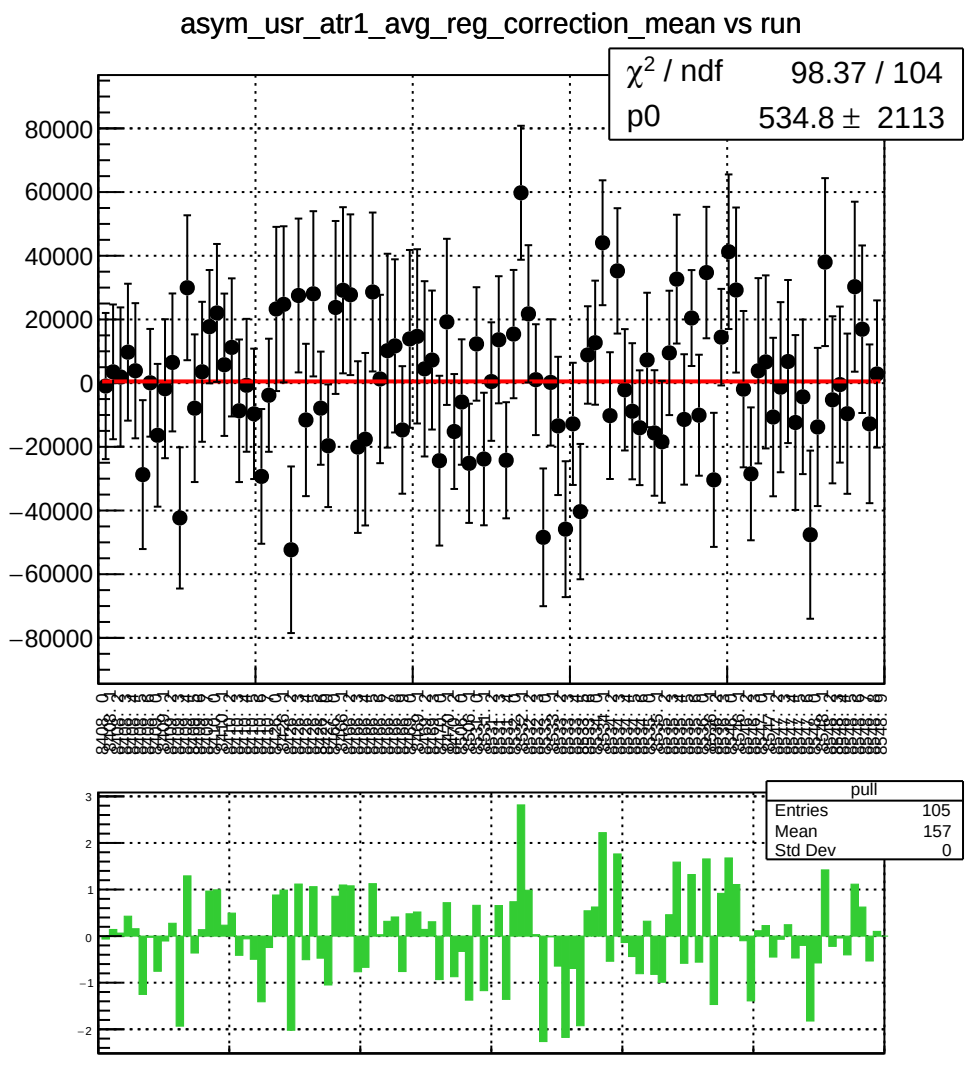

pull1D
Entries 105
Mean 0.06973
Std Dev 0.89

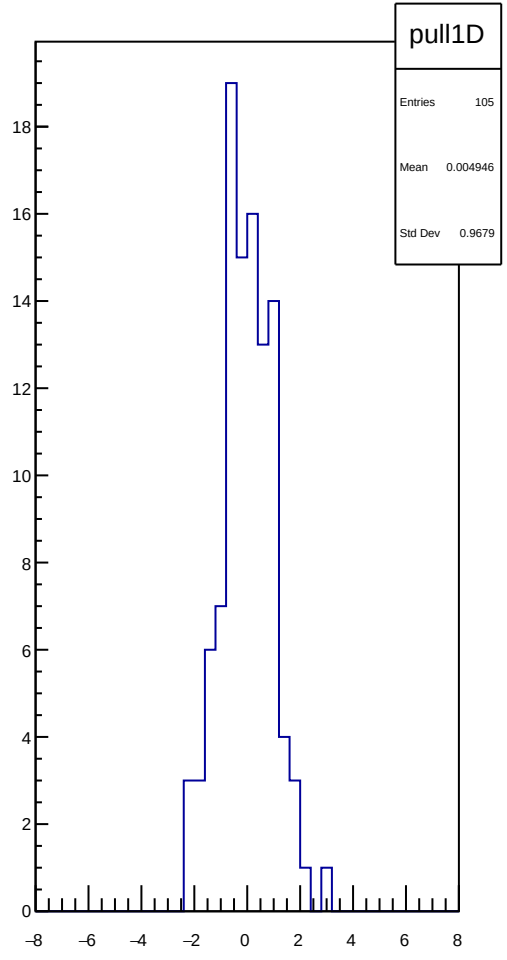

asym_usl_atl2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.12e+06 / 104
p0 1.173e−10 ± 1.219e−13
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

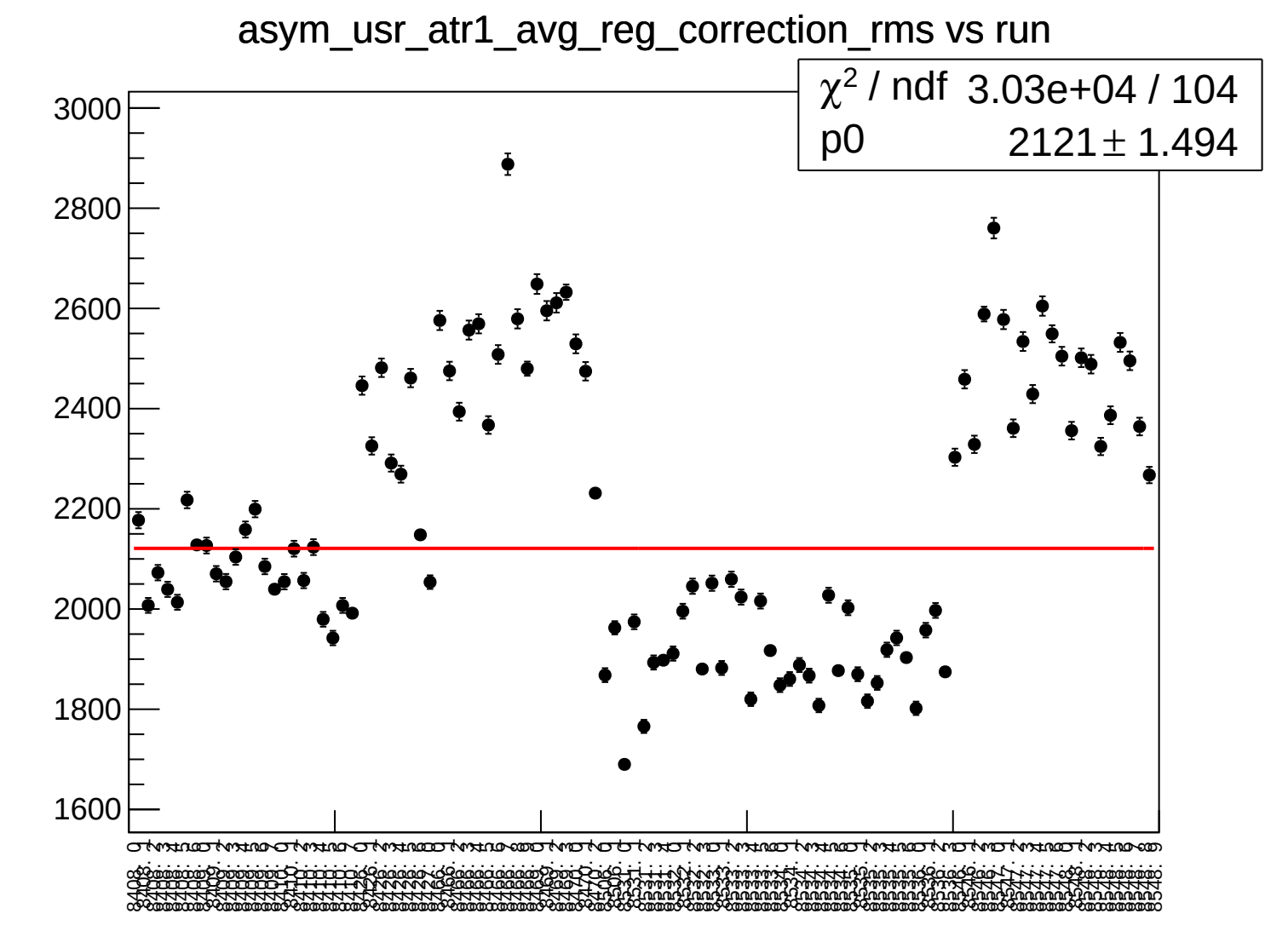

reg_asym_usr_atr1_avg_mean vs run
χ² / ndf 99.13 / 104
p0 2381 ± 1635
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean −182.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

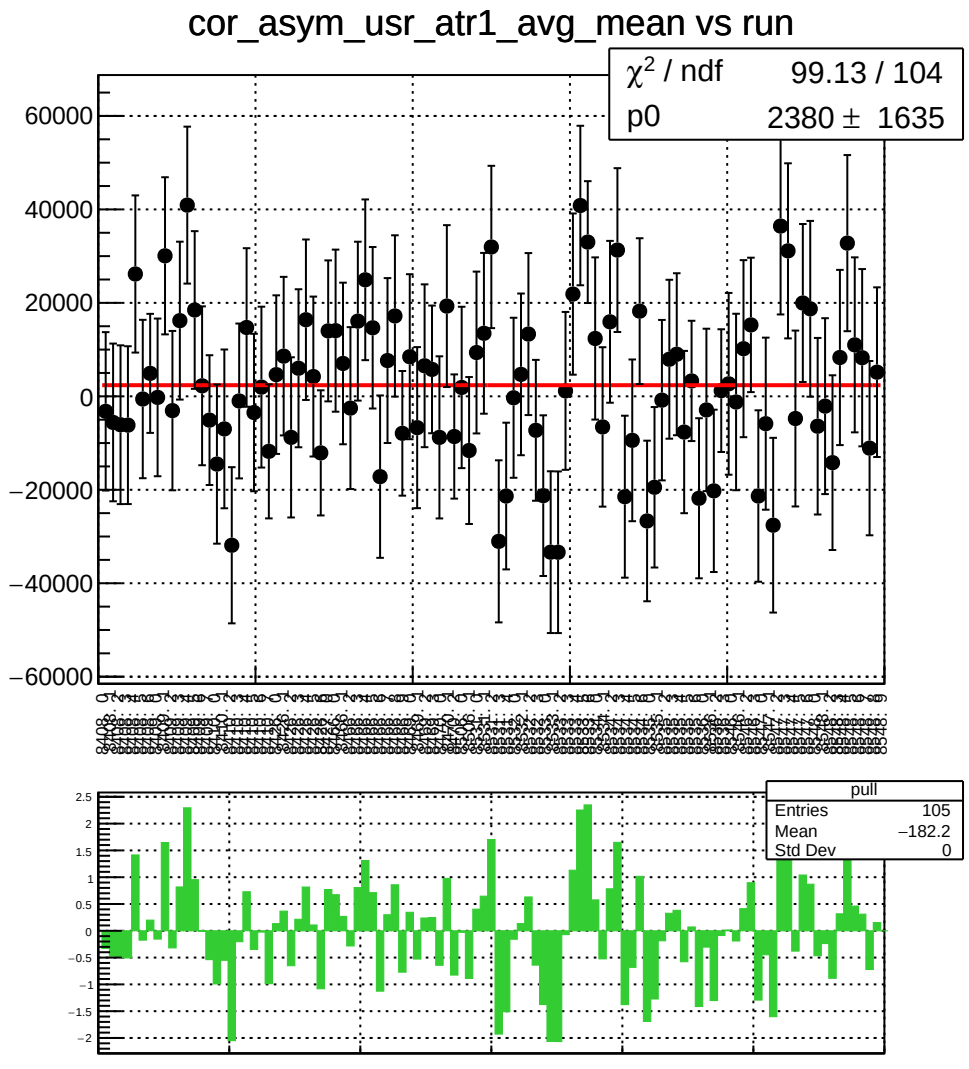

pull1D
Entries 105
Mean 0.002399
Std Dev 0.9717
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

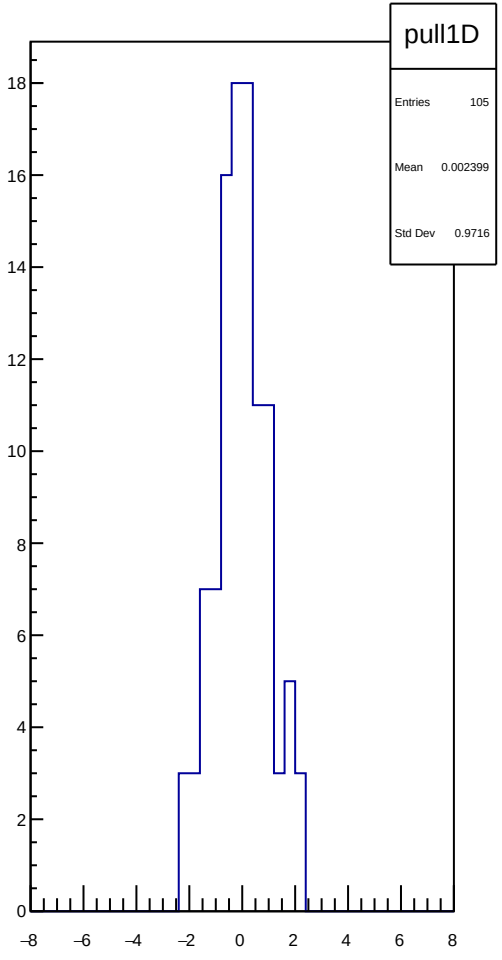

reg_asym_usr_atr1_avg_rms vs run
χ² / ndf 2829 / 104
p0 1652 ± 1.156
1850
1800
1750
1700
1650
1600
1550

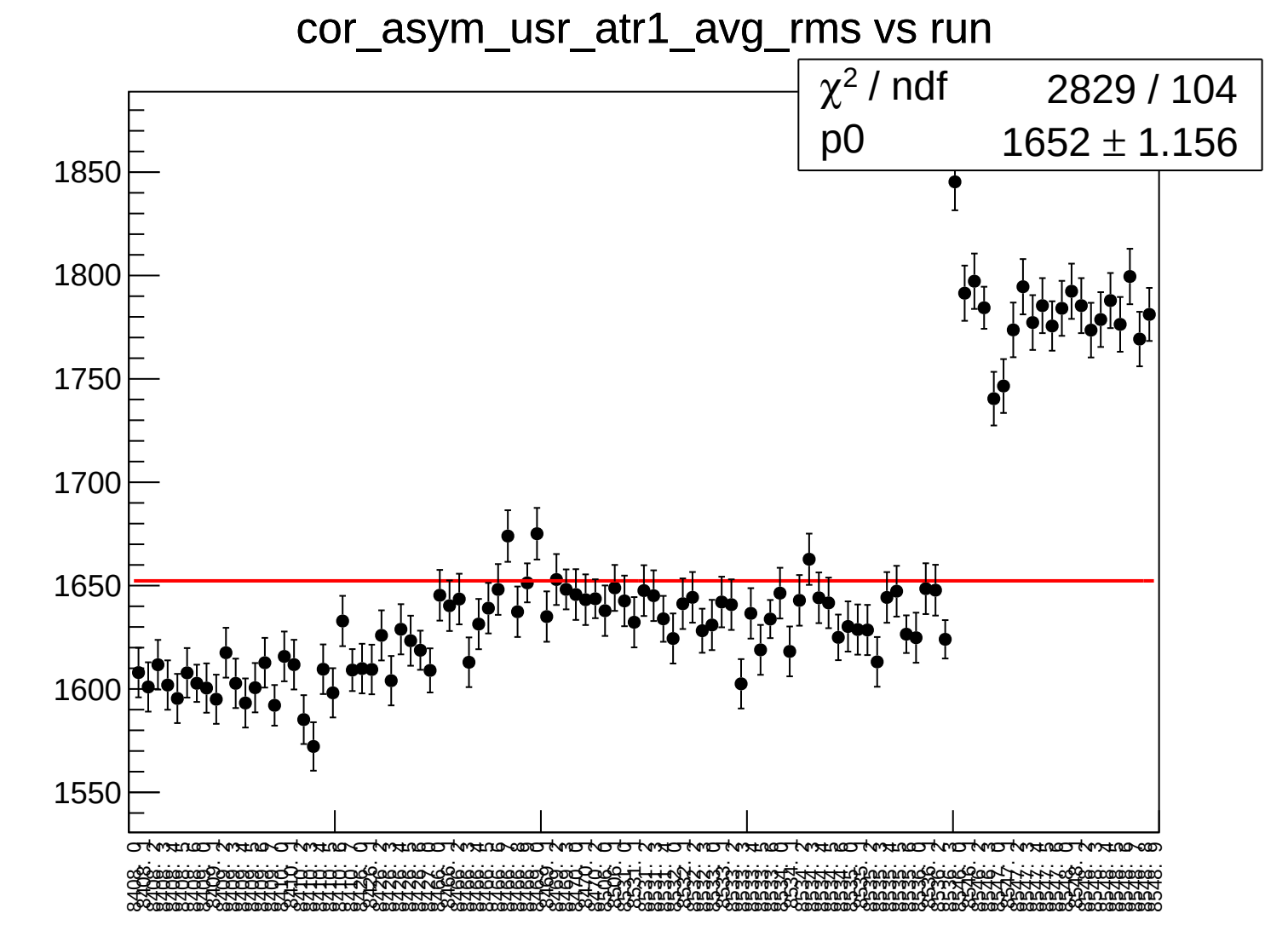

asym_usr_atr1_avg_reg_correction_mean vs run
χ² / ndf 98.37 / 104
p0 534.8 ± 2113
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 105
Mean 157
Std Dev 0
3
2
1
0
−1
−2

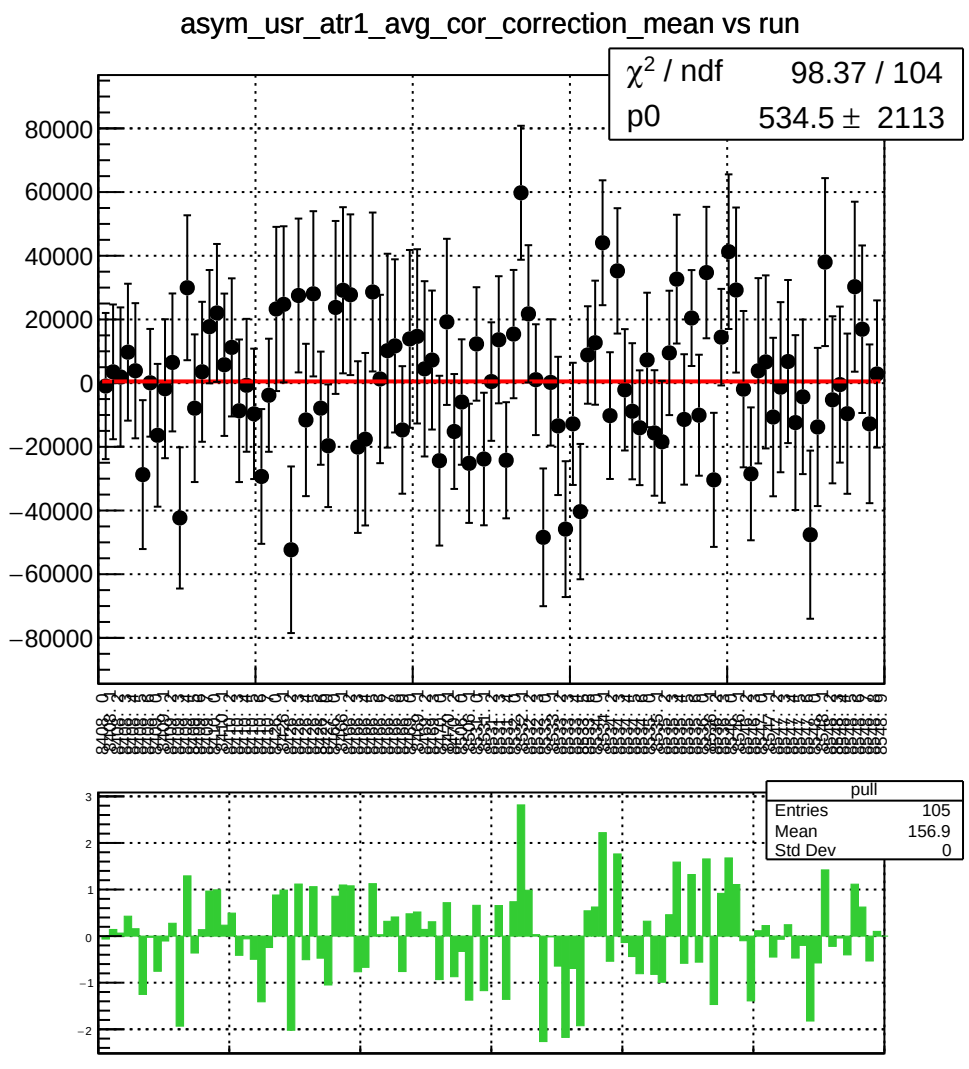

pull1D
Entries 105
Mean 0.004946
Std Dev 0.9679
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

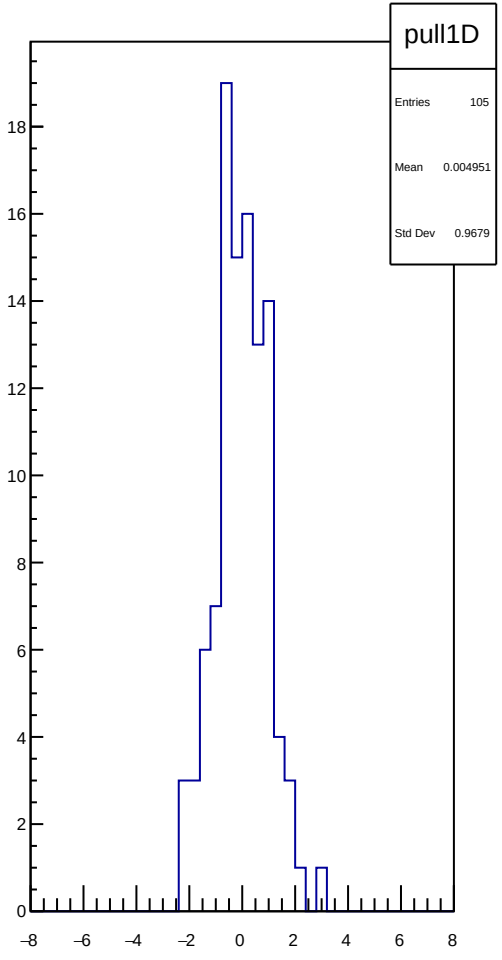

asym_usr_atr1_avg_reg_correction_rms vs run
χ² / ndf 3.03e+04 / 104
p0 2121 ± 1.494
3000
2800
2600
2400
2200
2000
1800
1600

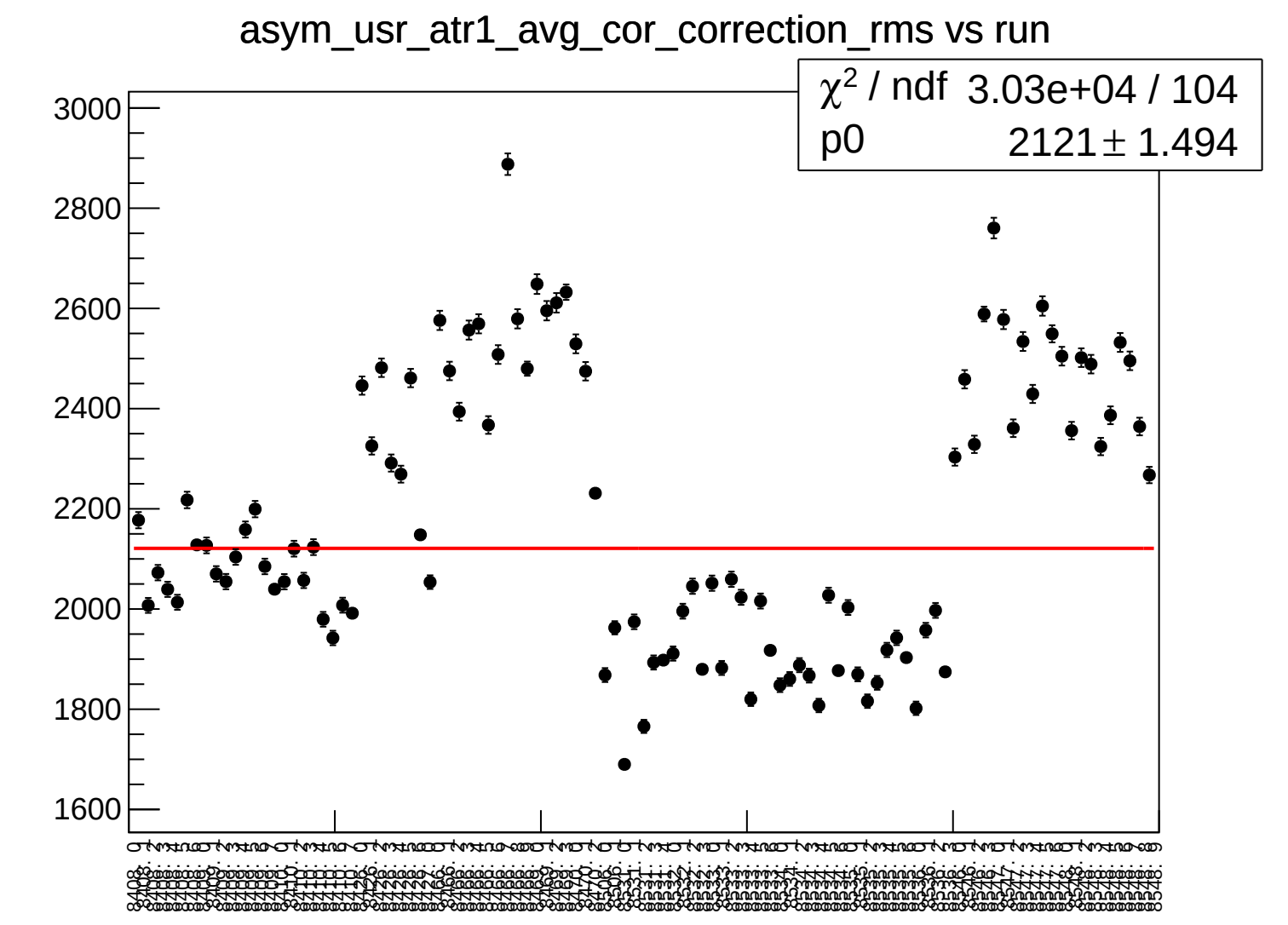

cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 99.13 / 104
p0 2380 ± 1635
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean −182.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

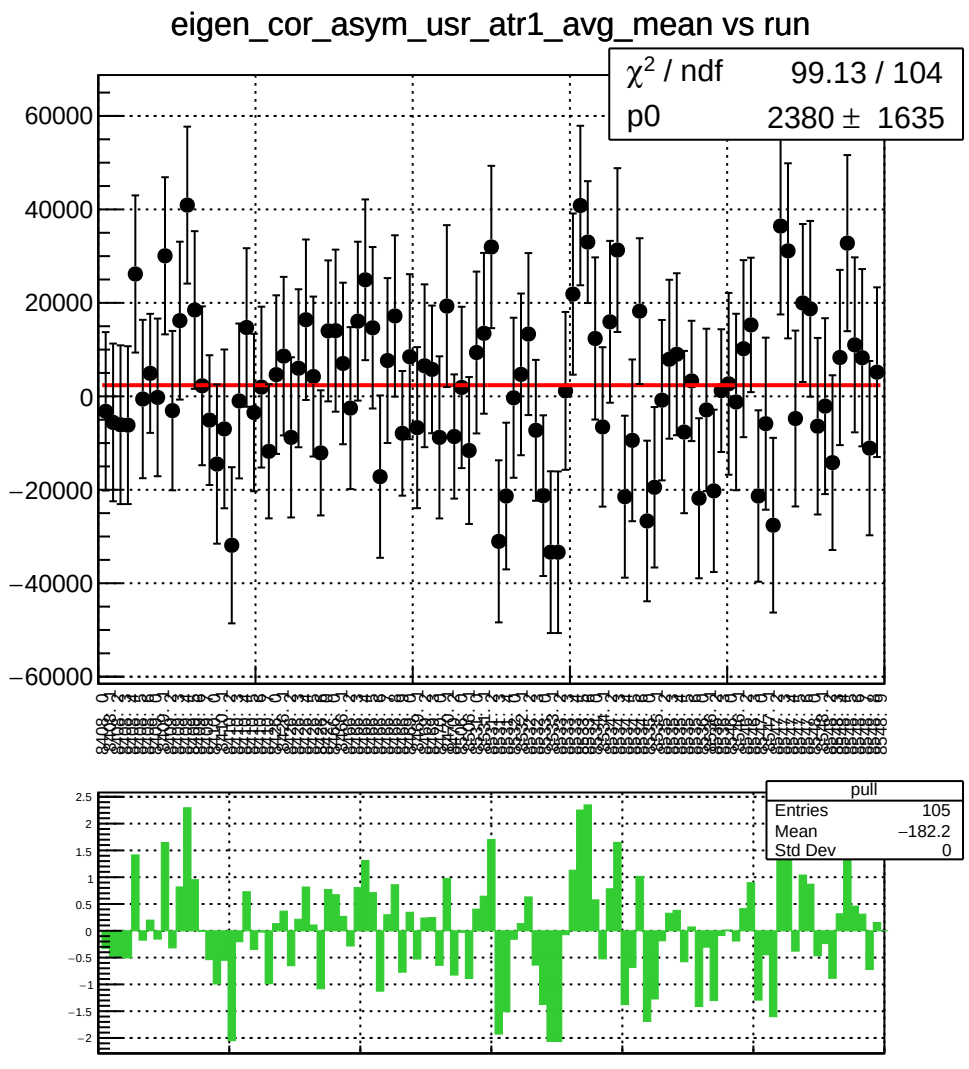

pull1D
Entries 105
Mean 0.002399
Std Dev 0.9716
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

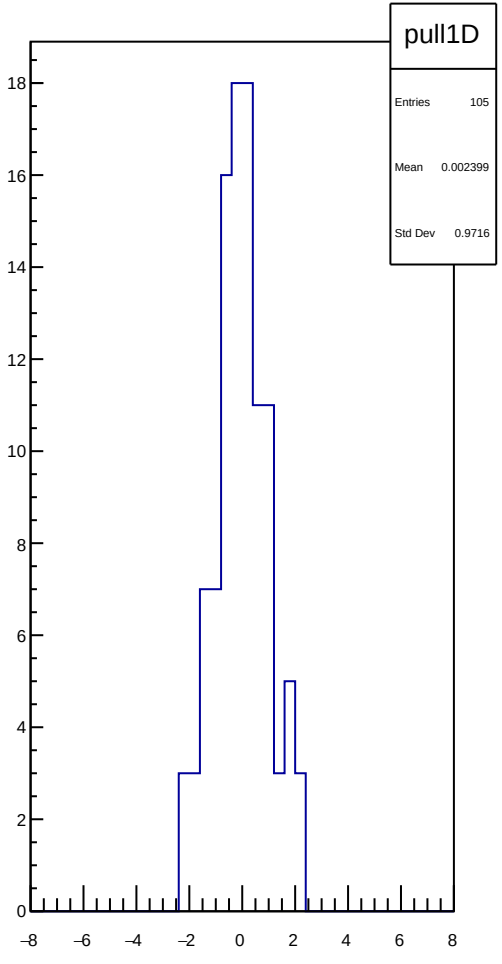

cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 2829 / 104
p0 1652 ± 1.156
1850
1800
1750
1700
1650
1600
1550

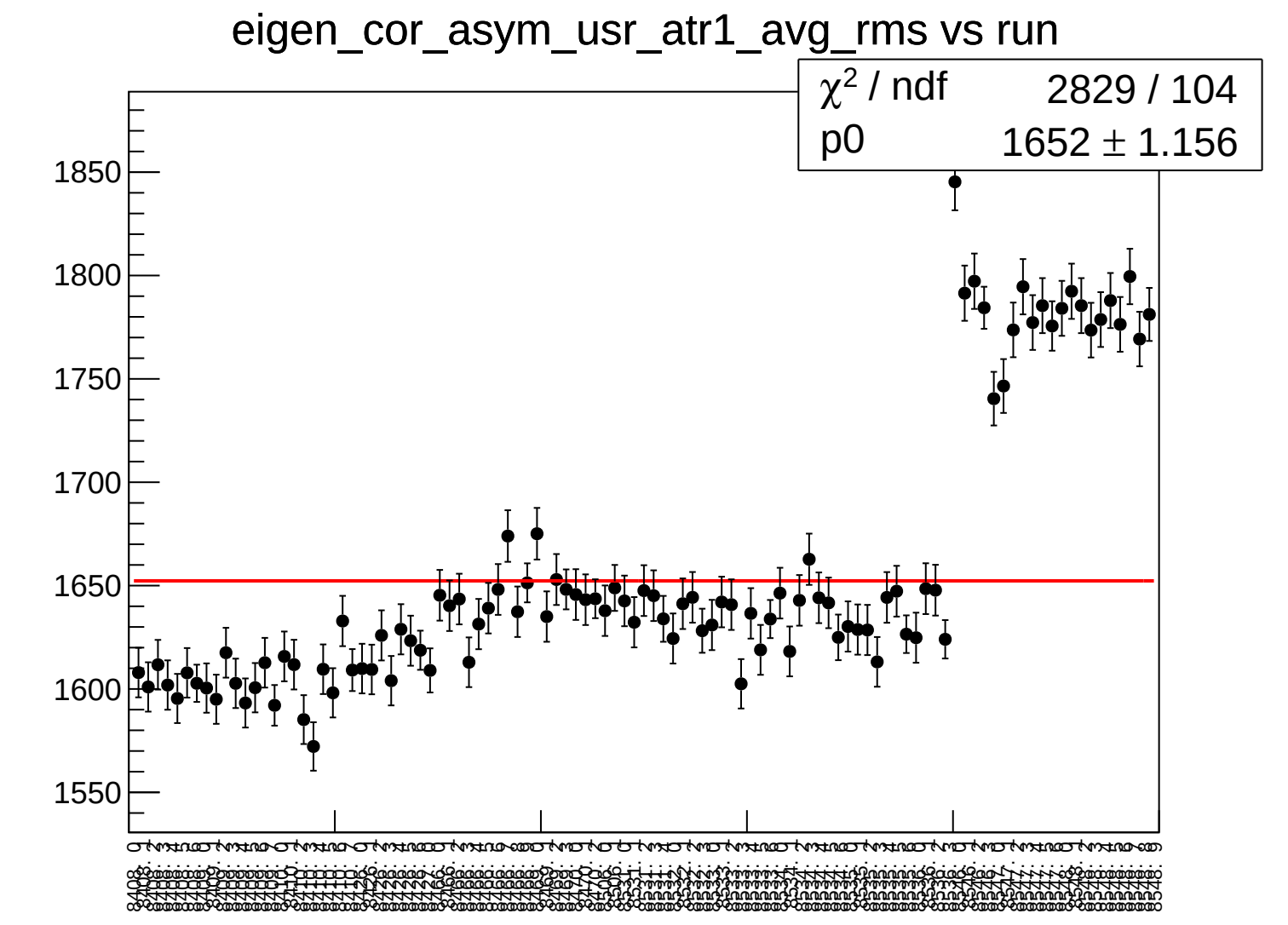

asym_usr_atr1_avg_cor_correction_mean vs run
χ² / ndf 98.37 / 104
p0 534.5 ± 2113
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 105
Mean 156.9
Std Dev 0
3
2
1
0
−1
−2

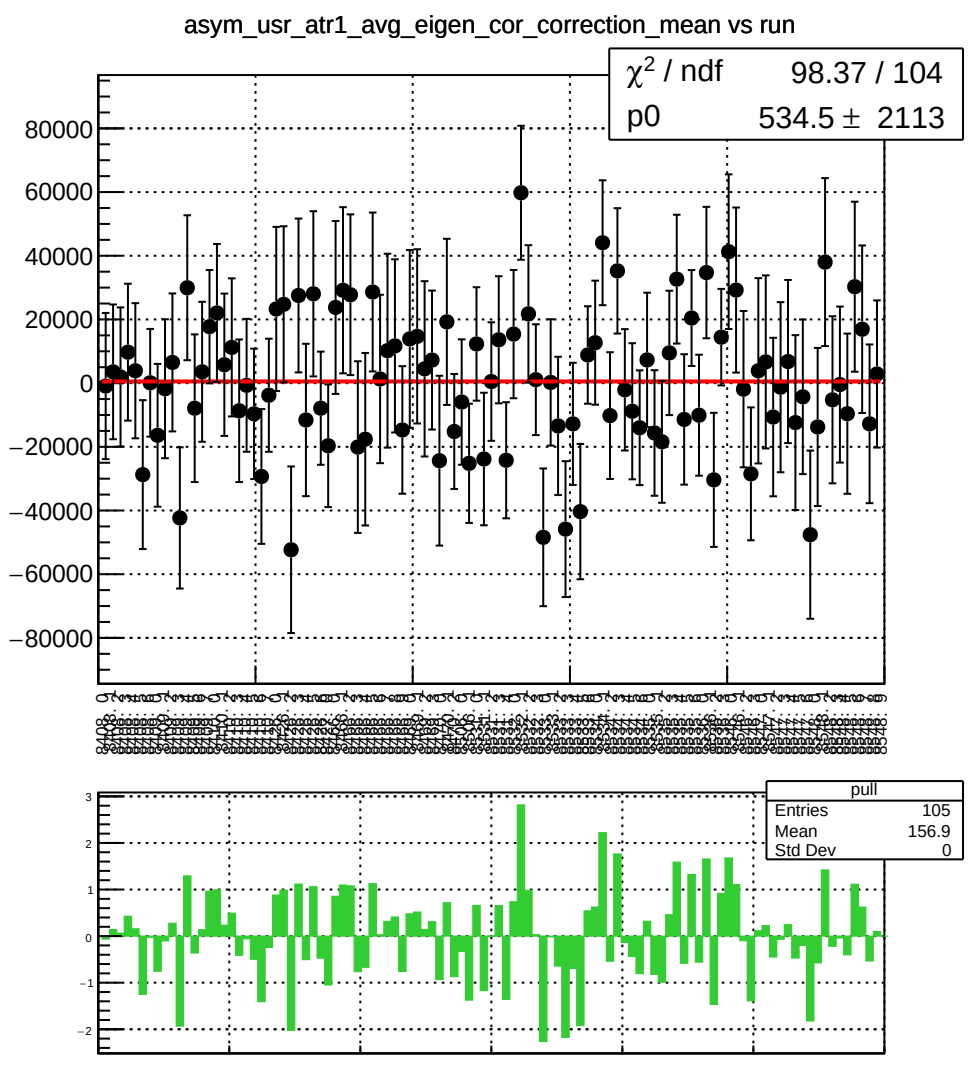

pull1D
Entries 105
Mean 0.004951
Std Dev 0.9679
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

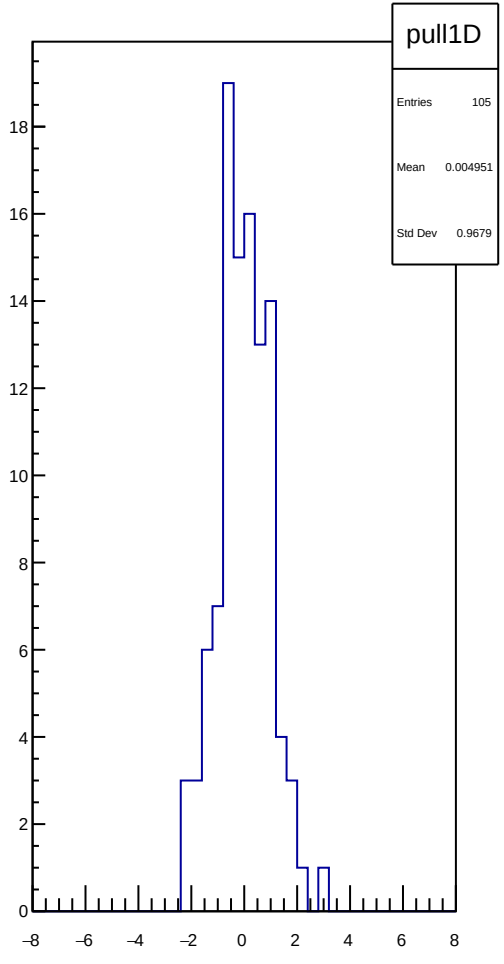

asym_usr_atr1_avg_cor_correction_rms vs run
χ² / ndf 3.03e+04 / 104
p0 2121 ± 1.494
3000
2800
2600
2400
2200
2000
1800
1600

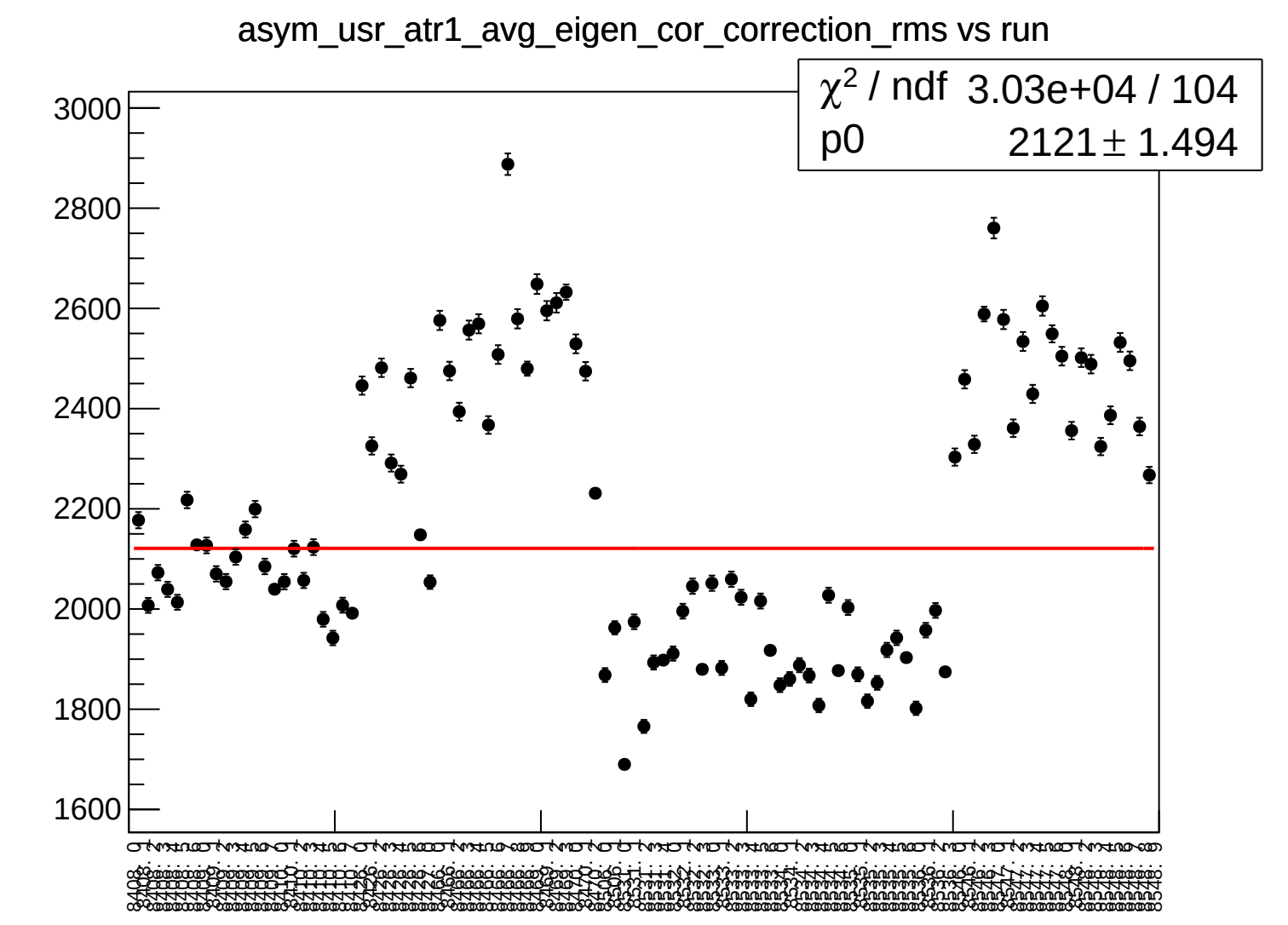

eigen_cor_asym_usr_atr1_avg_mean vs run
χ² / ndf 99.13 / 104
p0 2380 ± 1635
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean −182.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

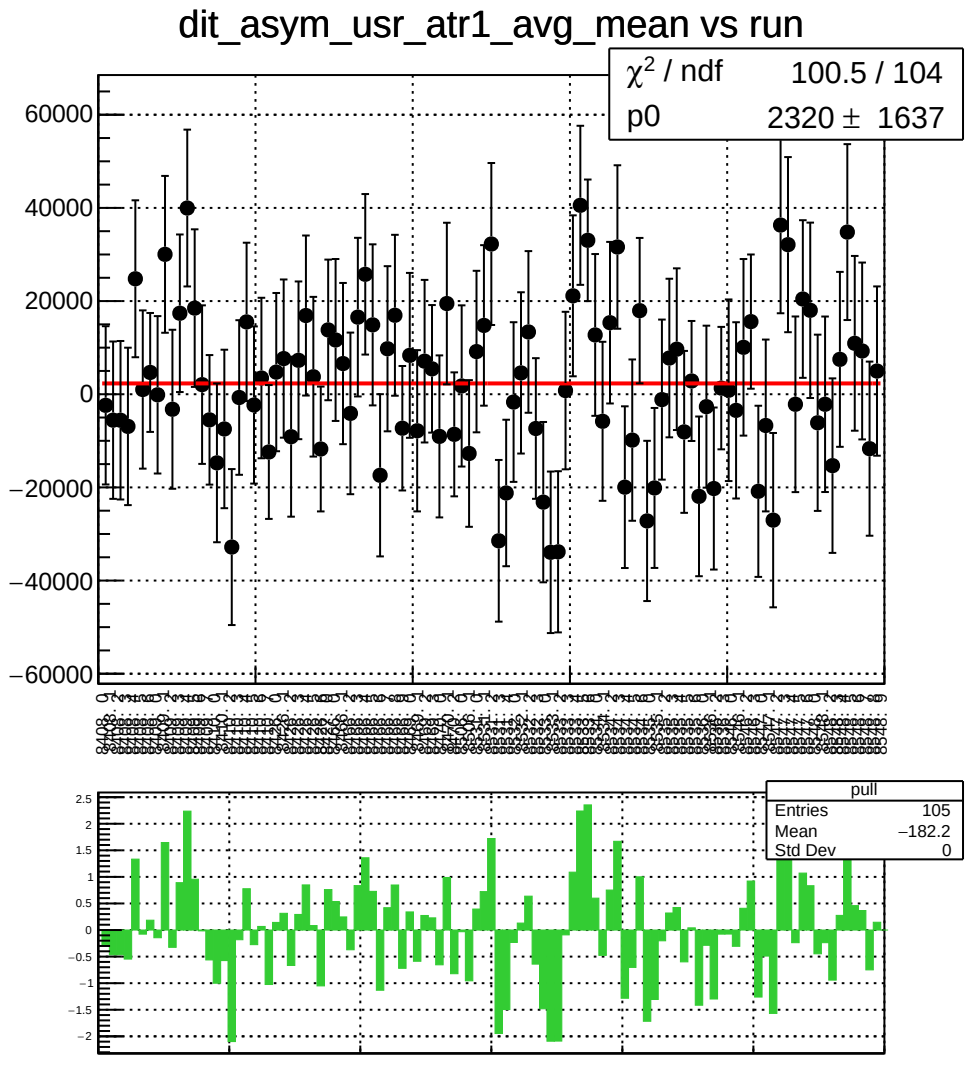

pull1D
Entries 105
Mean 0.002399
Std Dev 0.9716
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

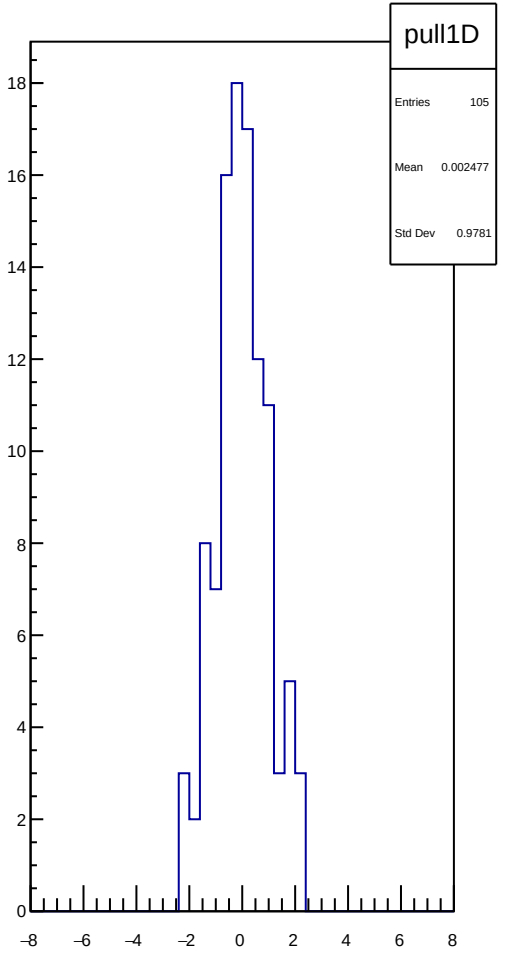

eigen_cor_asym_usr_atr1_avg_rms vs run
χ² / ndf 2829 / 104
p0 1652 ± 1.156
1850
1800
1750
1700
1650
1600
1550

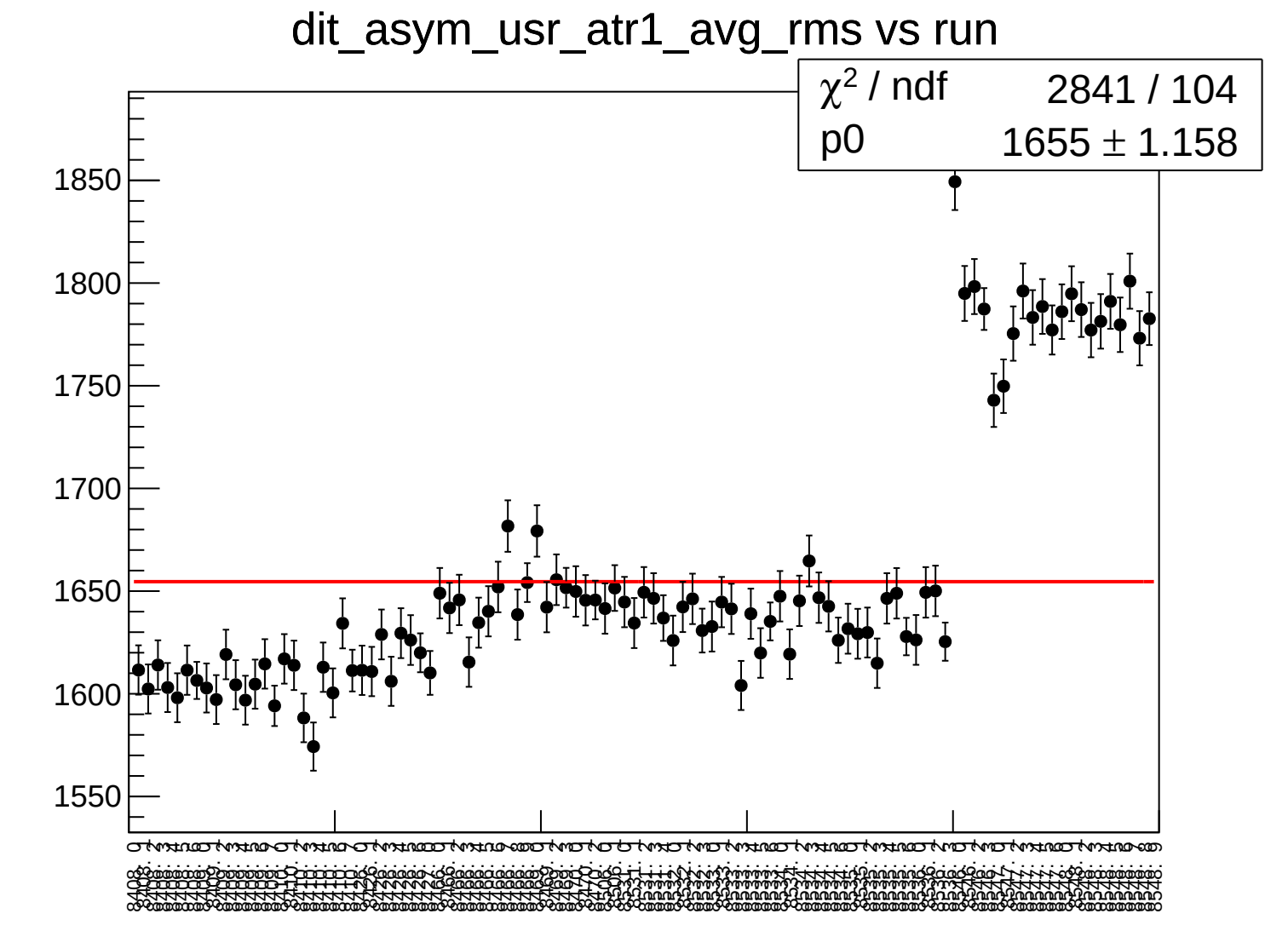

asym_usr_atr1_avg_eigen_cor_correction_mean vs run
χ² / ndf 98.37 / 104
p0 534.5 ± 2113
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 105
Mean 156.9
Std Dev 0
3
2
1
0
−1
−2

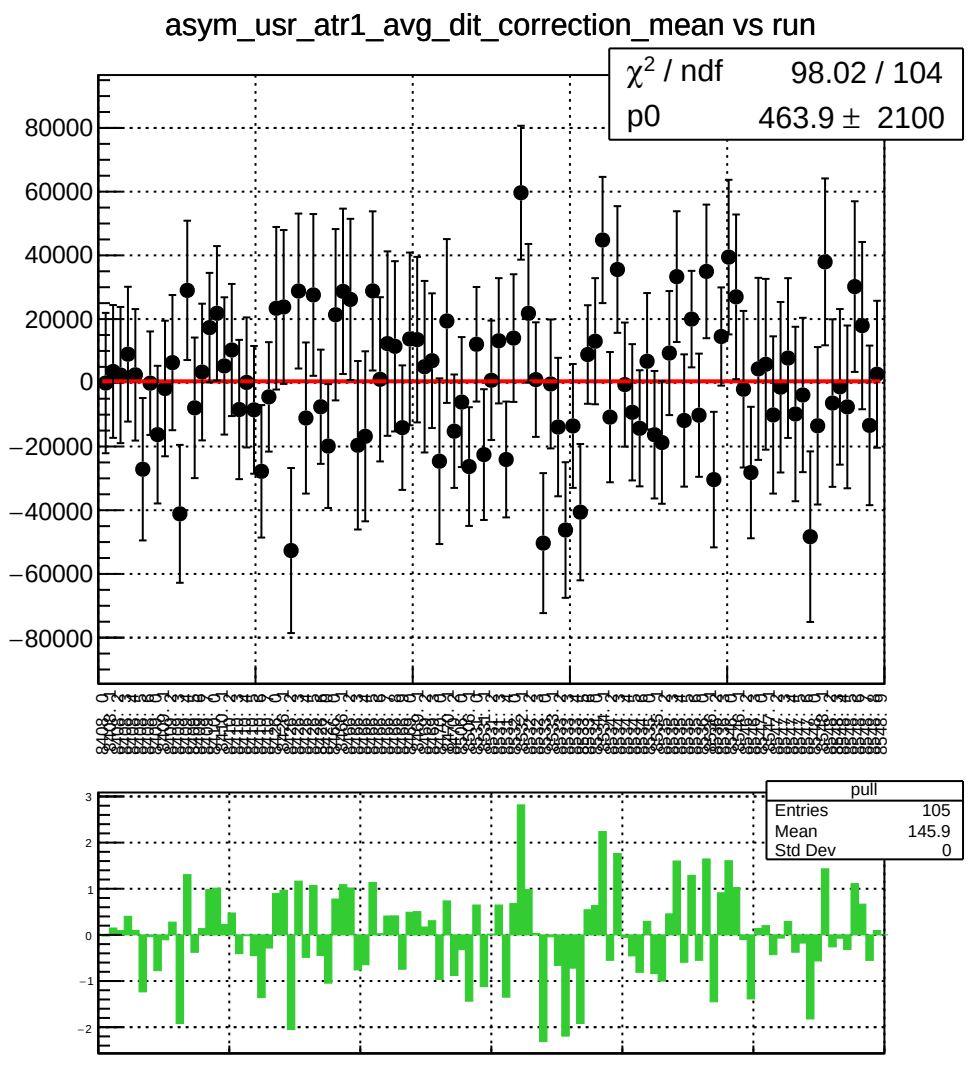

pull1D
Entries 105
Mean 0.004951
Std Dev 0.9679
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

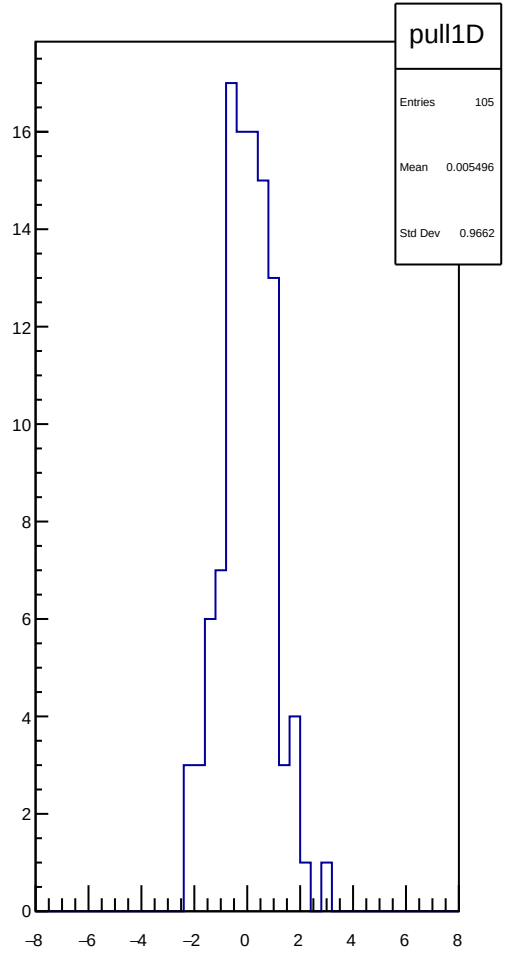

asym_usr_atr1_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.03e+04 / 104
p0 2121 ± 1.494
3000
2800
2600
2400
2200
2000
1800
1600

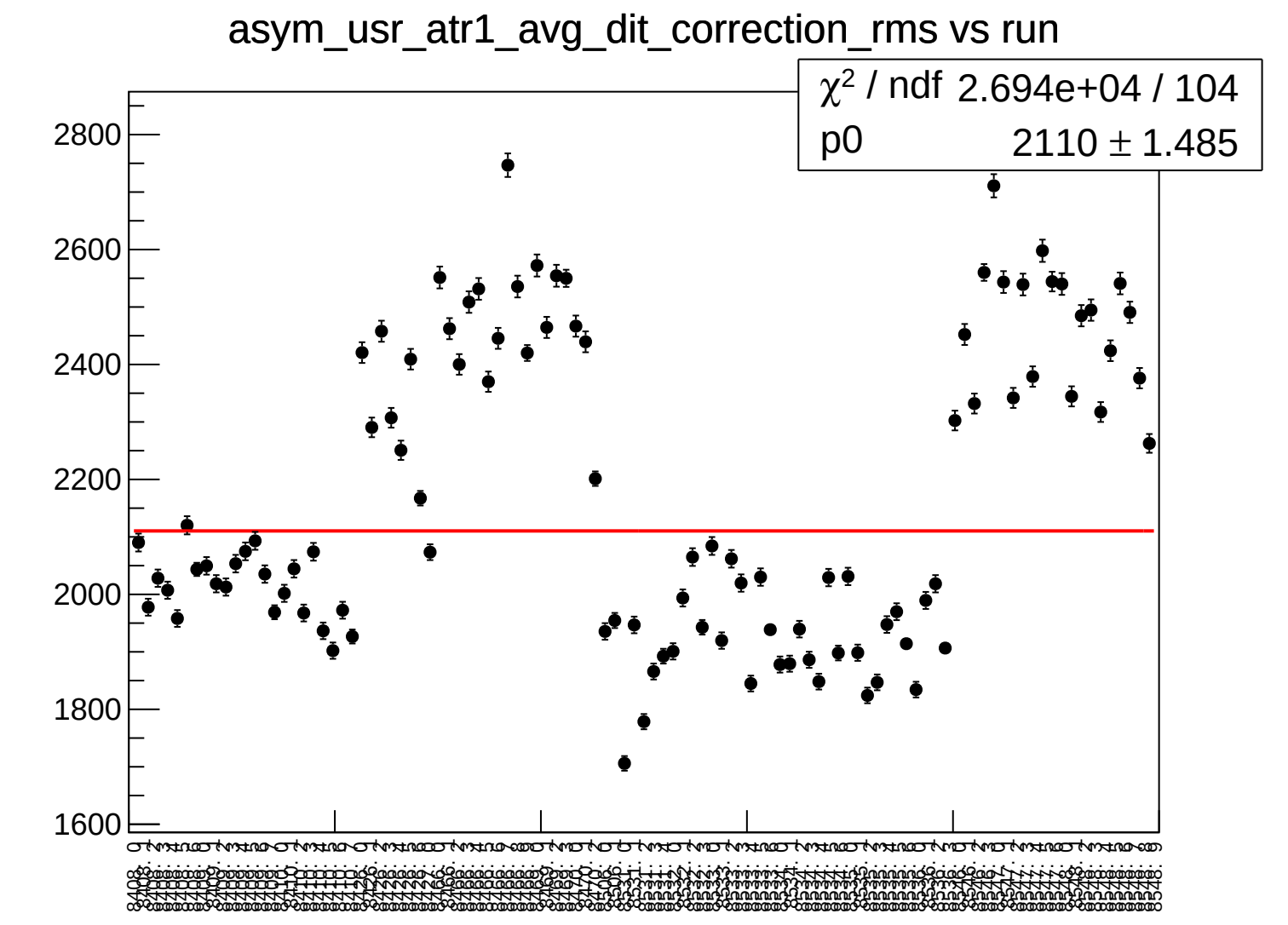

dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 100.5 / 104
p0 2320 ± 1637
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean −182.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

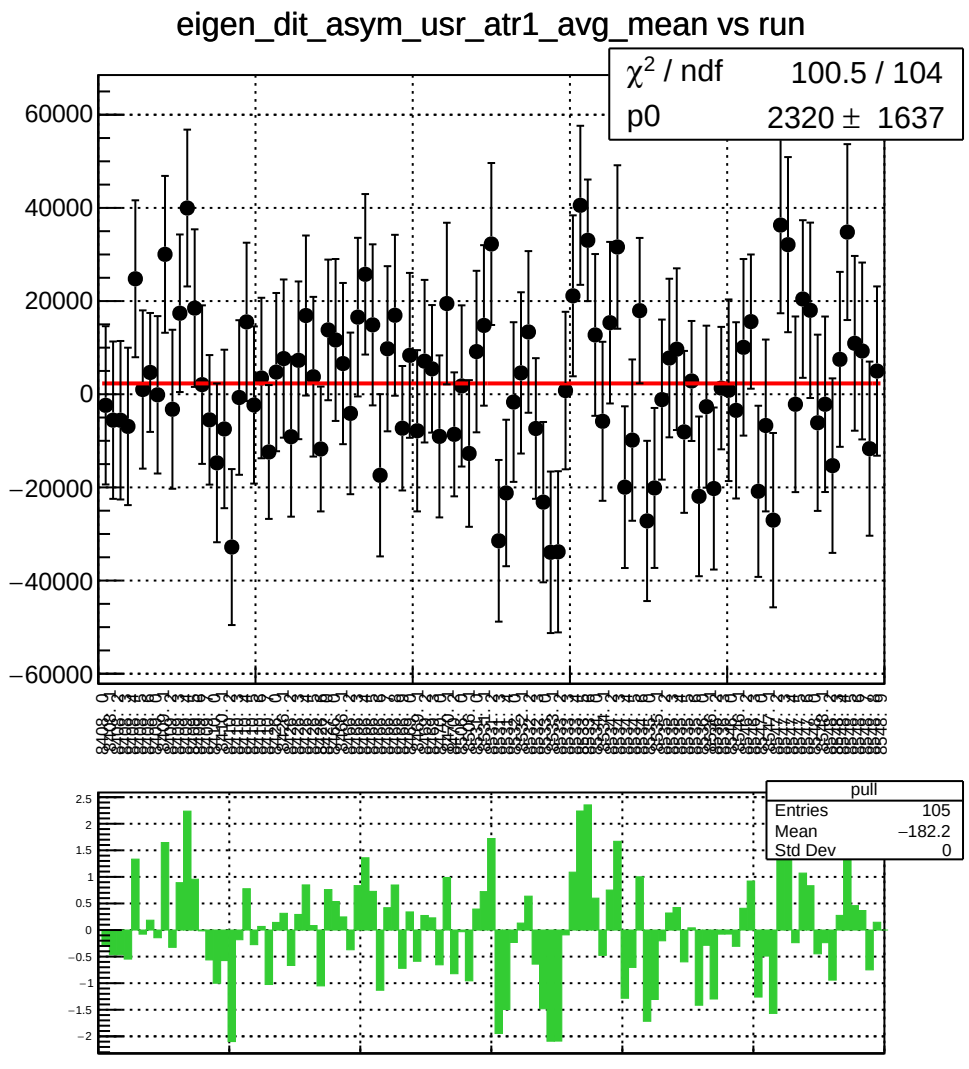

pull1D
Entries 105
Mean 0.002477
Std Dev 0.9781
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

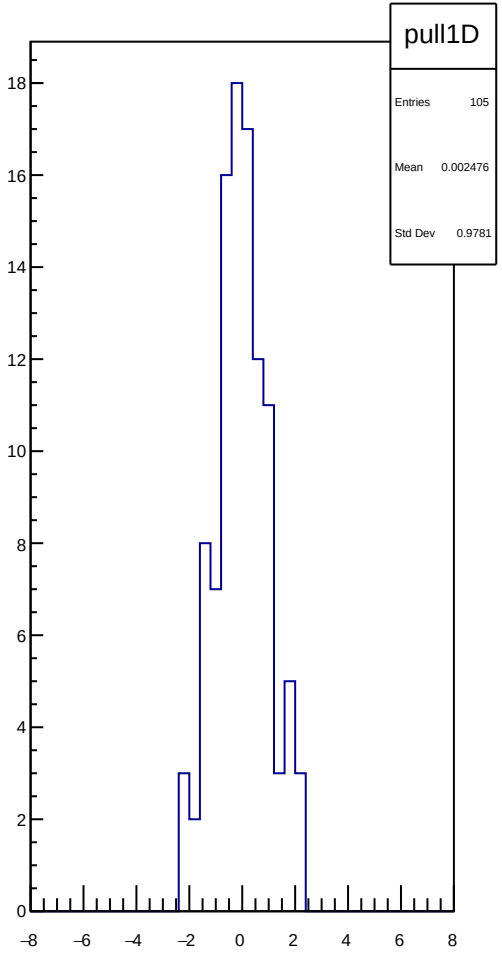

dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 2841 / 104
p0 1655 ± 1.158
1850
1800
1750
1700
1650
1600
1550

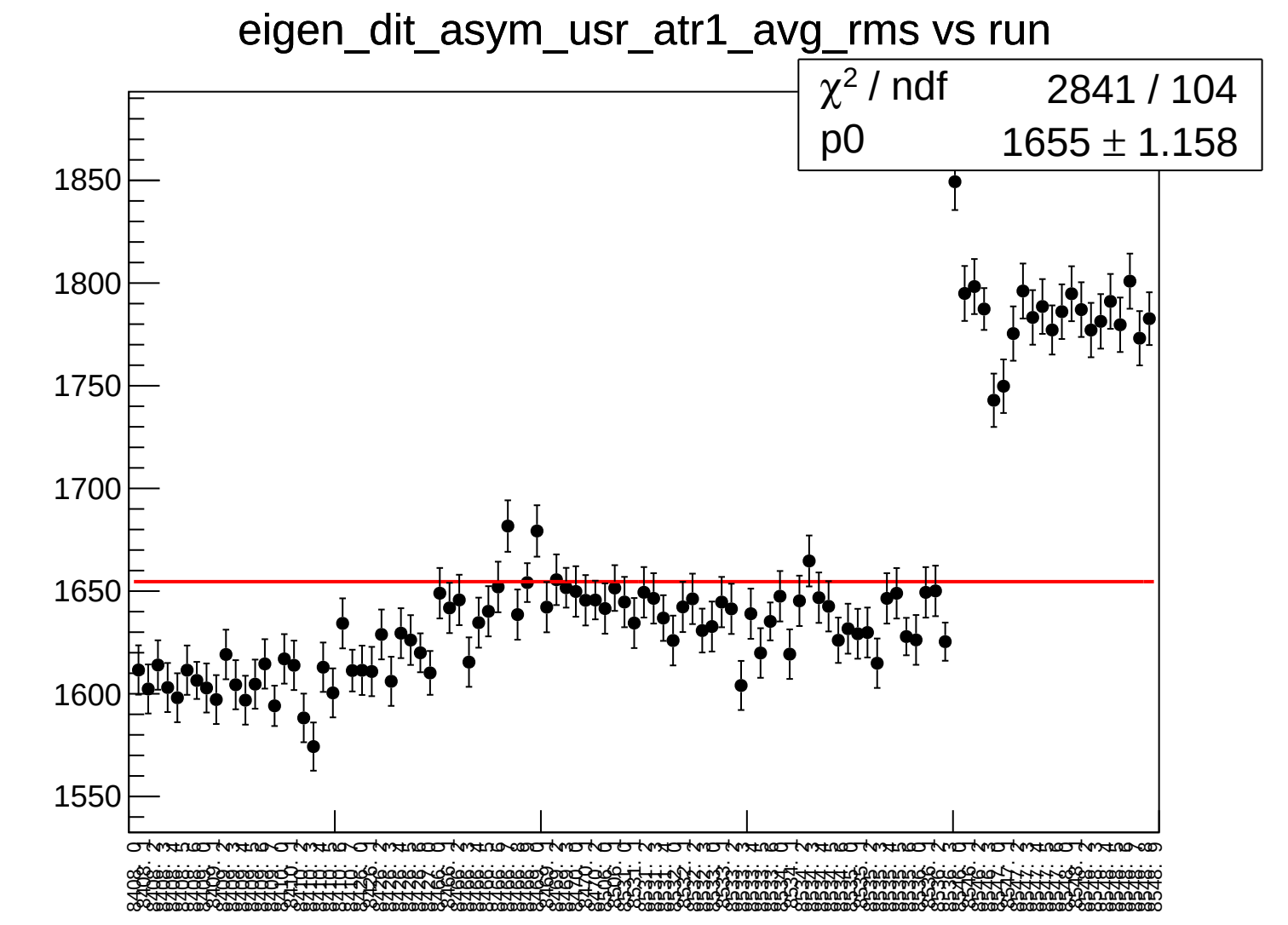

asym_usr_atr1_avg_dit_correction_mean vs run
χ² / ndf 98.02 / 104
p0 463.9 ± 2100
pull
Entries 105
Mean 145.9
Std Dev 0

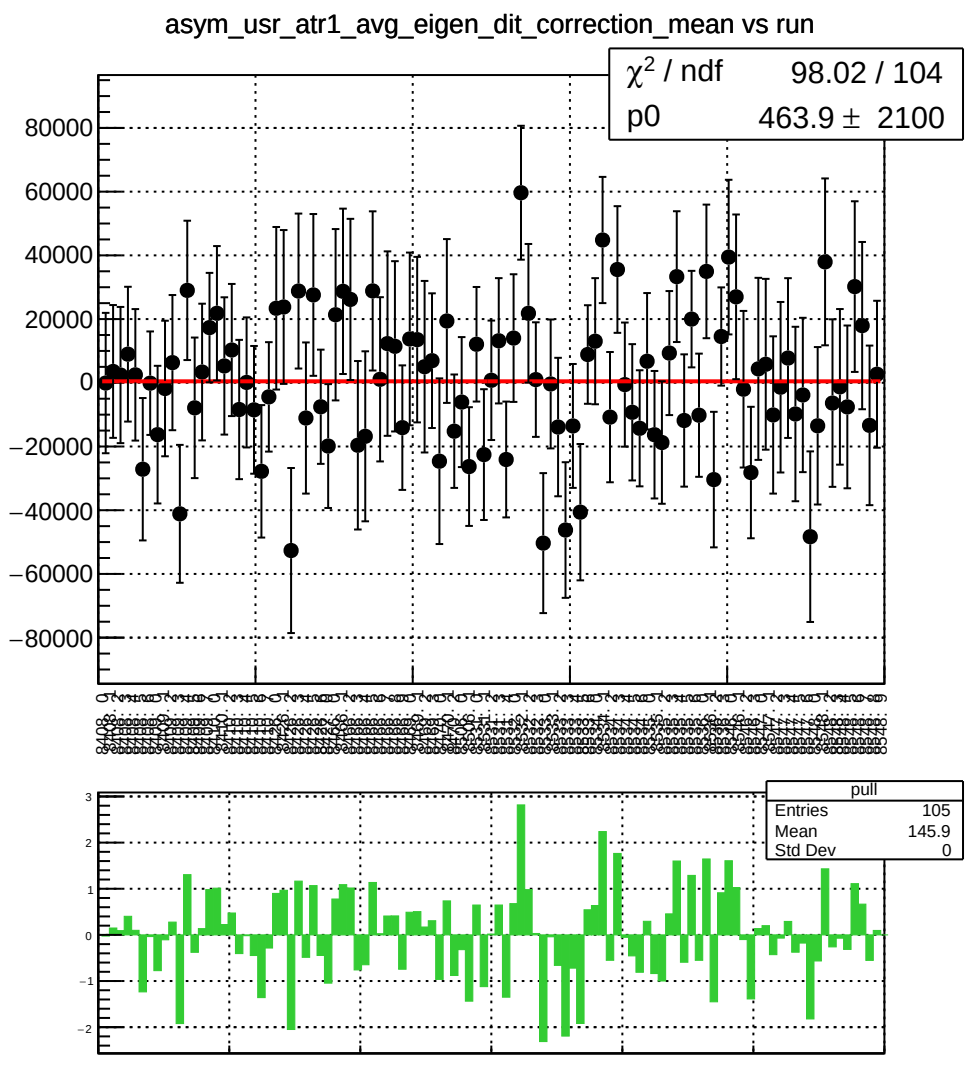

pull1D
Entries 105
Mean 0.005496
Std Dev 0.9662

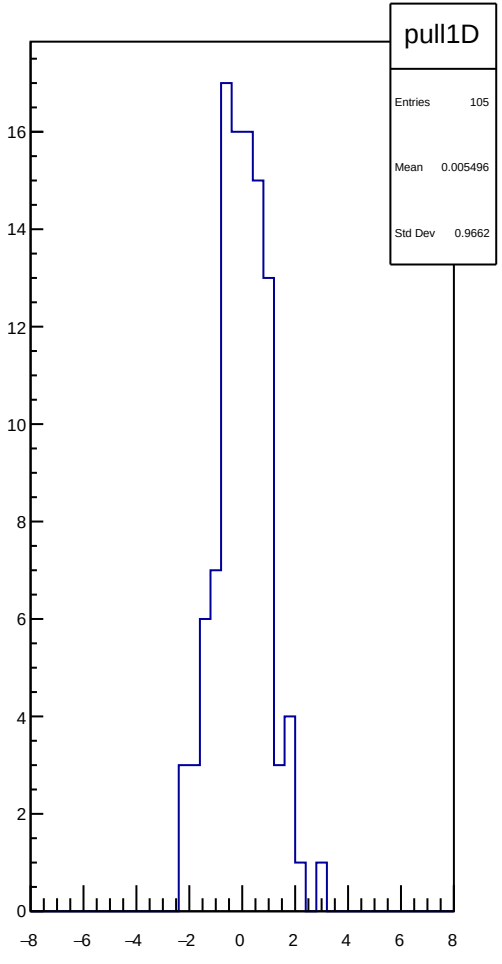

asym_usr_atr1_avg_dit_correction_rms vs run
χ² / ndf 2.694e+04 / 104
p0 2110 ± 1.485
2800
2600
2400
2200
2000
1800
1600

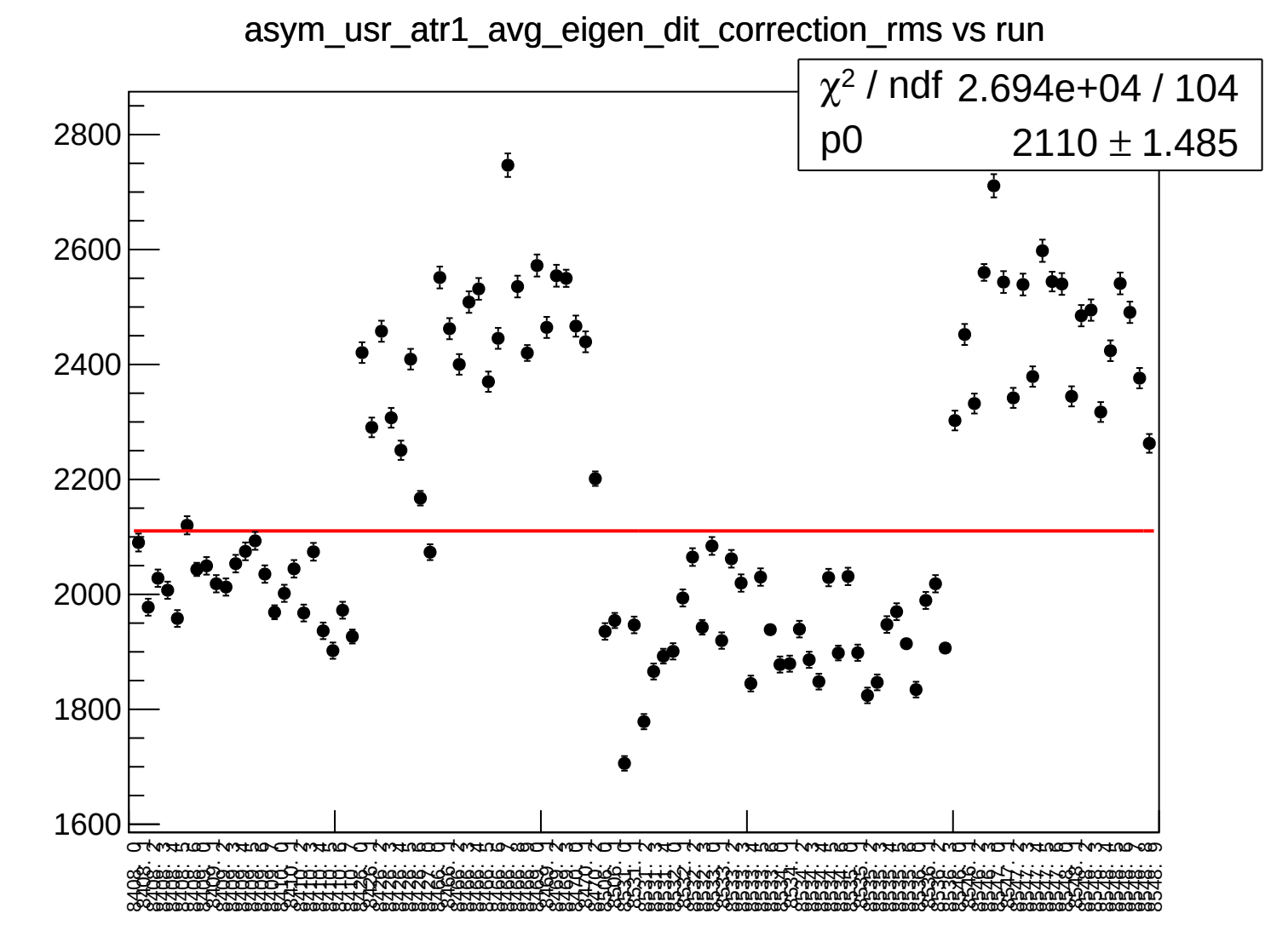

eigen_dit_asym_usr_atr1_avg_mean vs run
χ² / ndf 100.5 / 104
p0 2320 ± 1637
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean −182.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

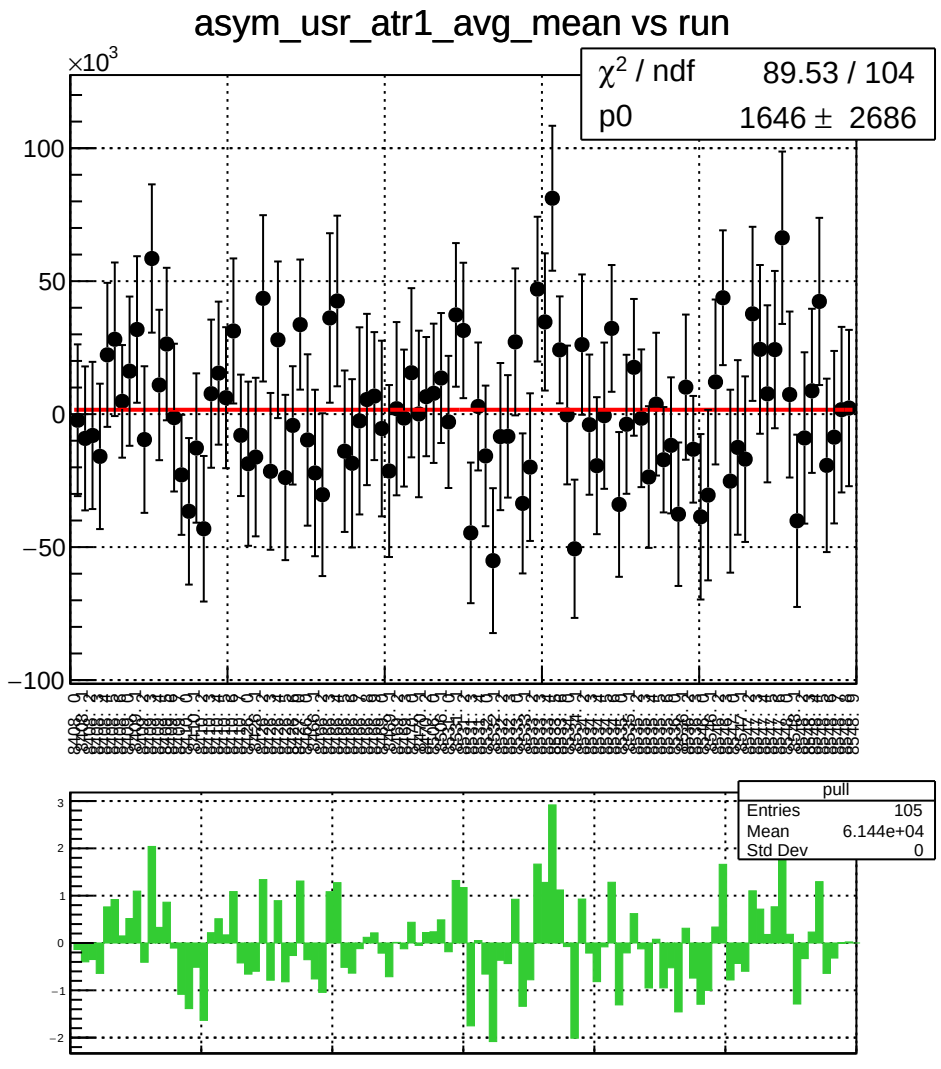

pull1D
Entries 105
Mean 0.002476
Std Dev 0.9781
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

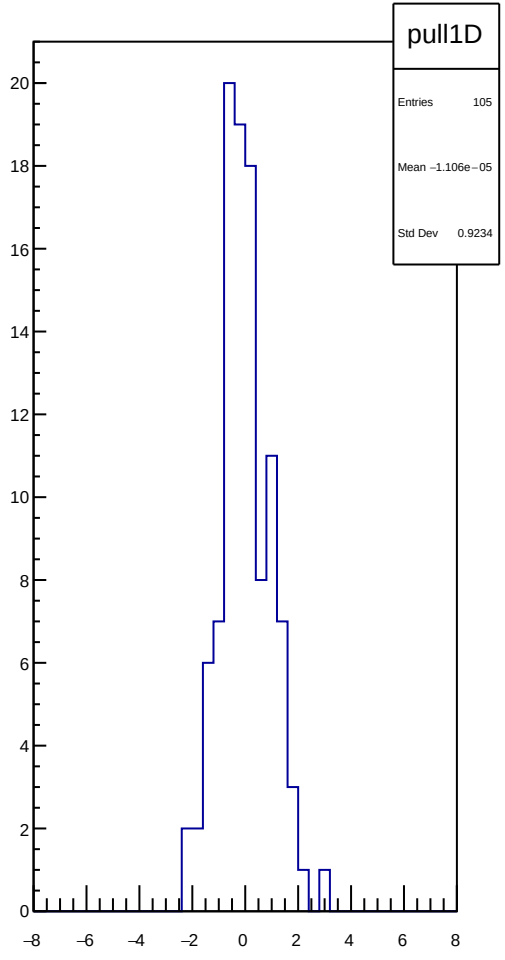

eigen_dit_asym_usr_atr1_avg_rms vs run
χ² / ndf 2841 / 104
p0 1655 ± 1.158
1850
1800
1750
1700
1650
1600
1550

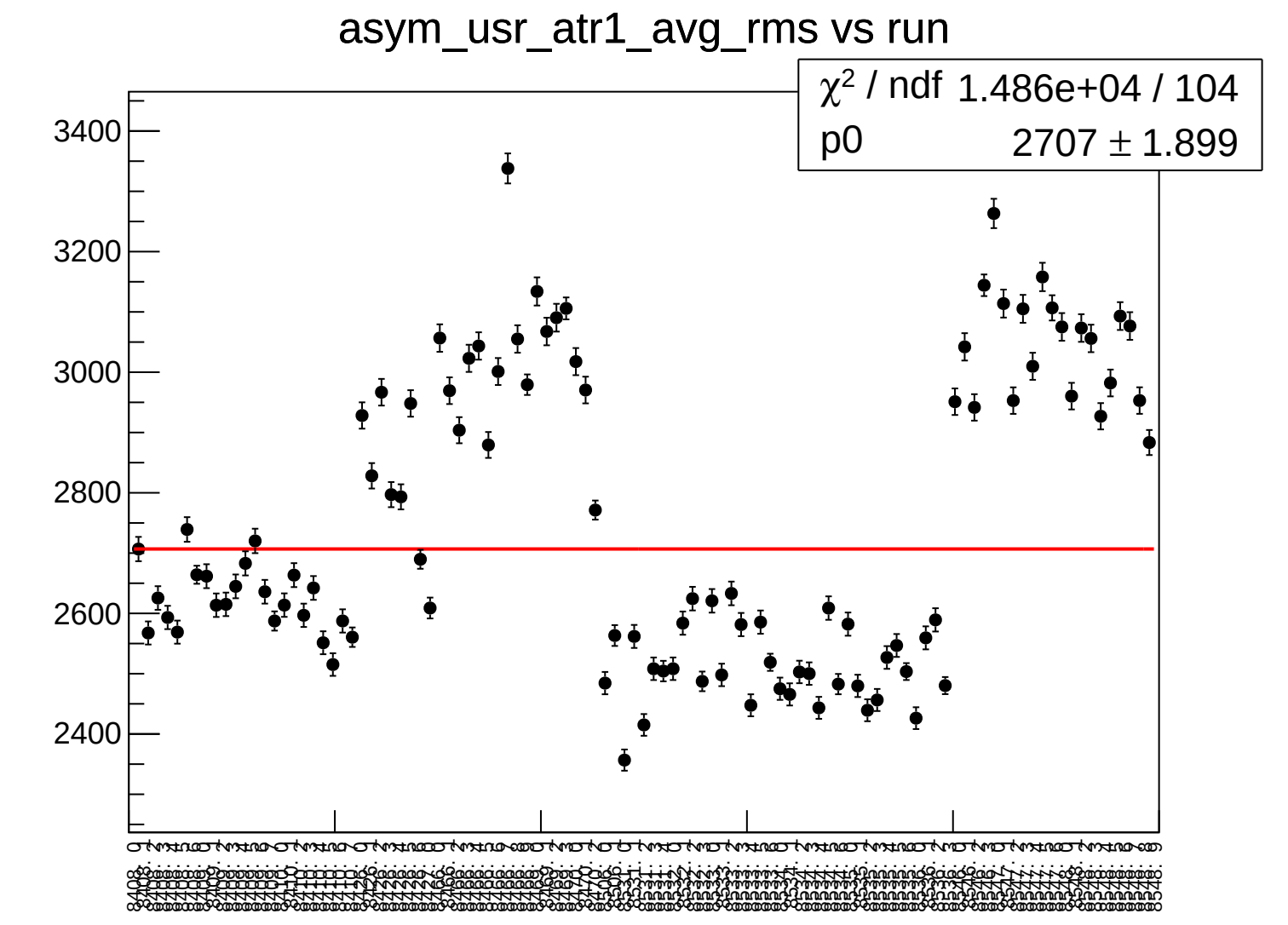

asym_usr_atr1_avg_eigen_dit_correction_mean vs run
χ² / ndf 98.02 / 104
p0 463.9 ± 2100
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 105
Mean 145.9
Std Dev 0
3
2
1
0
−1
−2

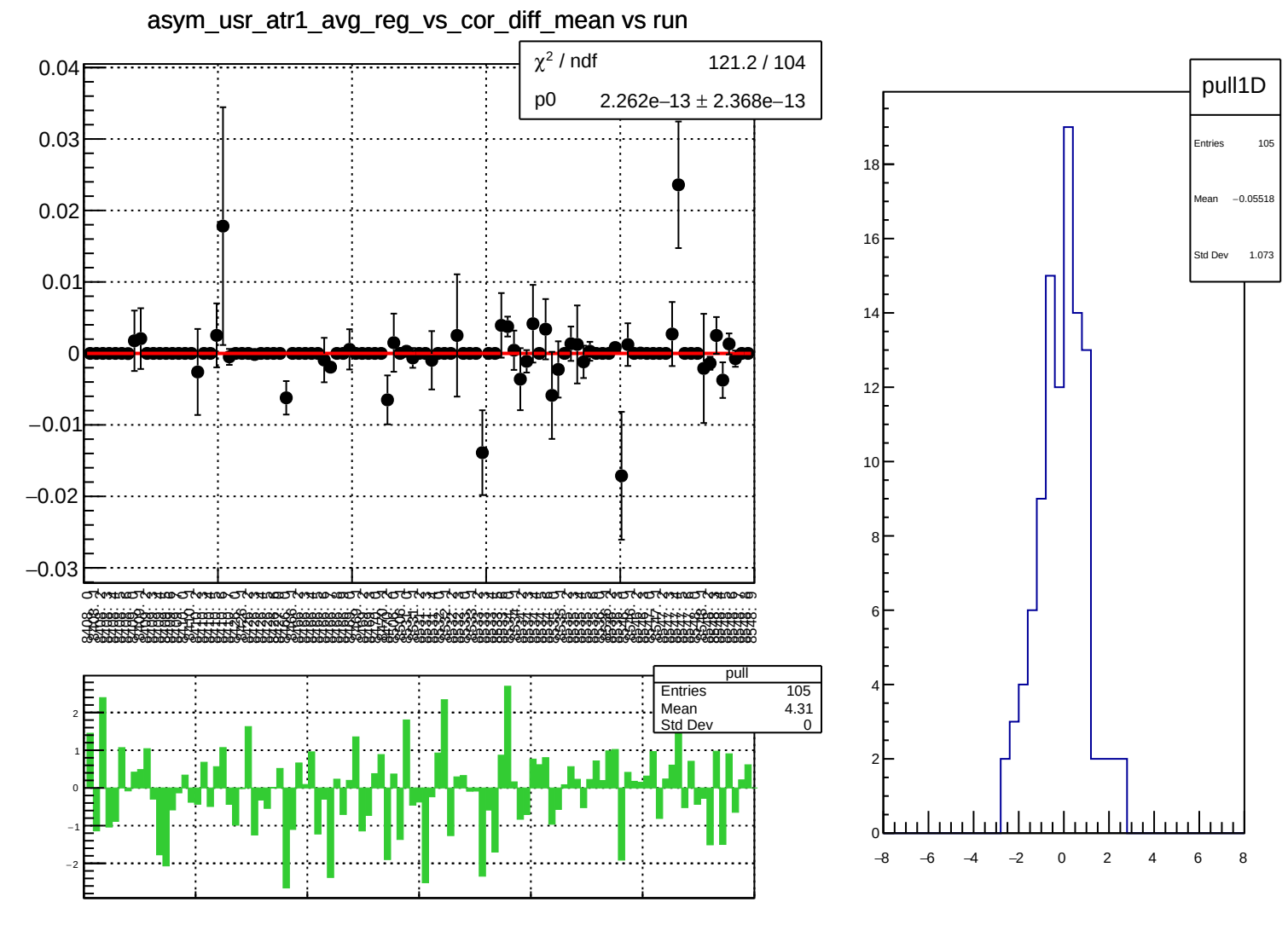

pull1D
Entries 105
Mean 0.005496
Std Dev 0.9662
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

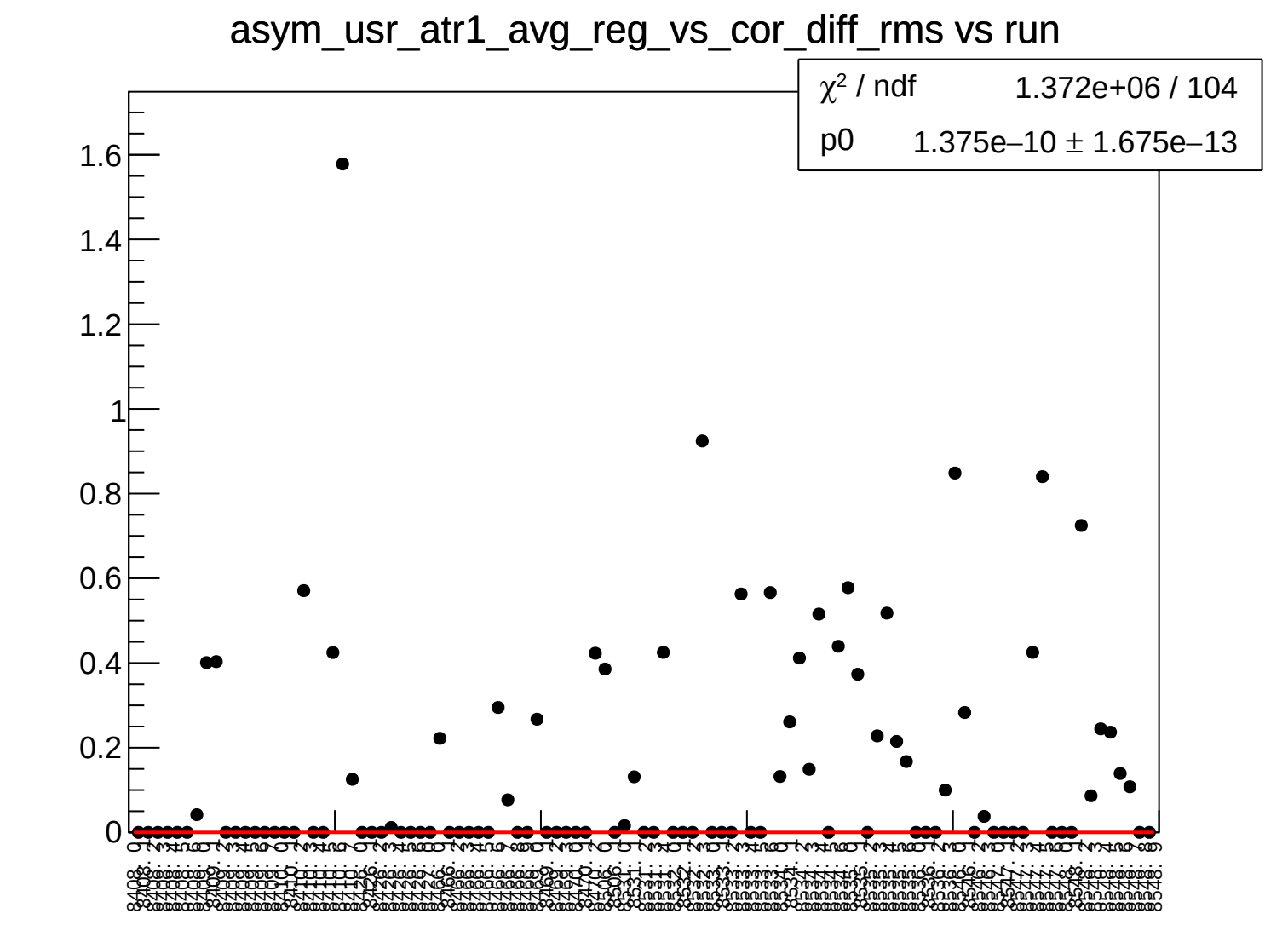

asym_usr_atr1_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.694e+04 / 104
p0 2110 ± 1.485
2800
2600
2400
2200
2000
1800
1600

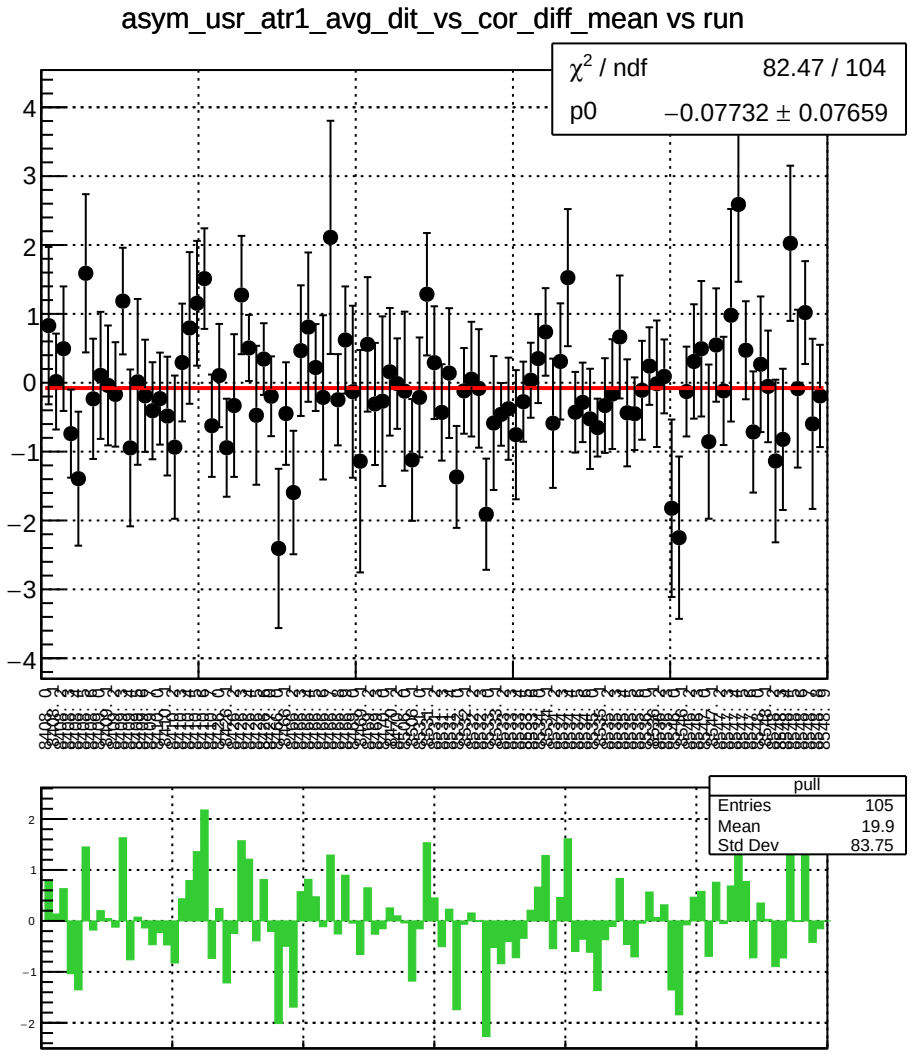

asym_usr_atr1_avg_mean vs run
×10^3
χ^2 / ndf 89.53 / 104
p0 1646 ± 2686
100
50
0
−50
−100
pull
Entries 105
Mean 6.144e+04
Std Dev 0
3
2
1
0
−1
−2

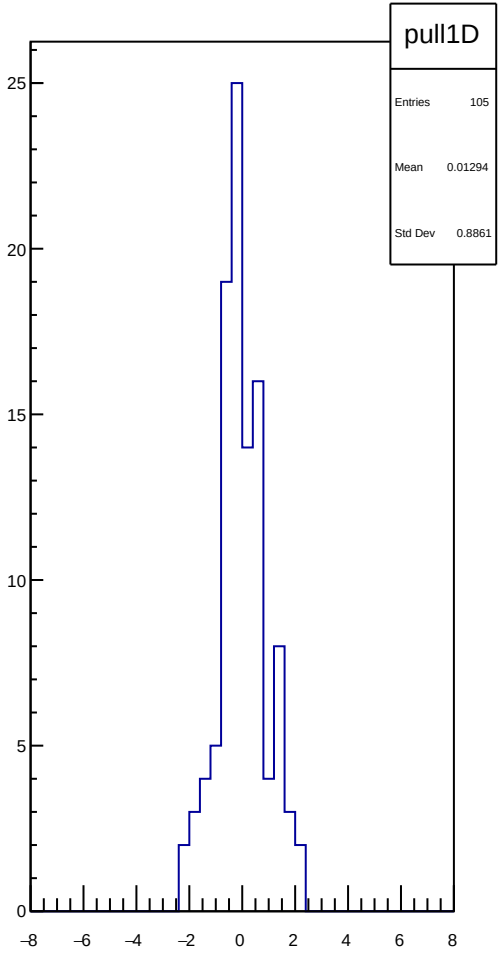

pull1D
Entries 105
Mean −1.106e−05
Std Dev 0.9234
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

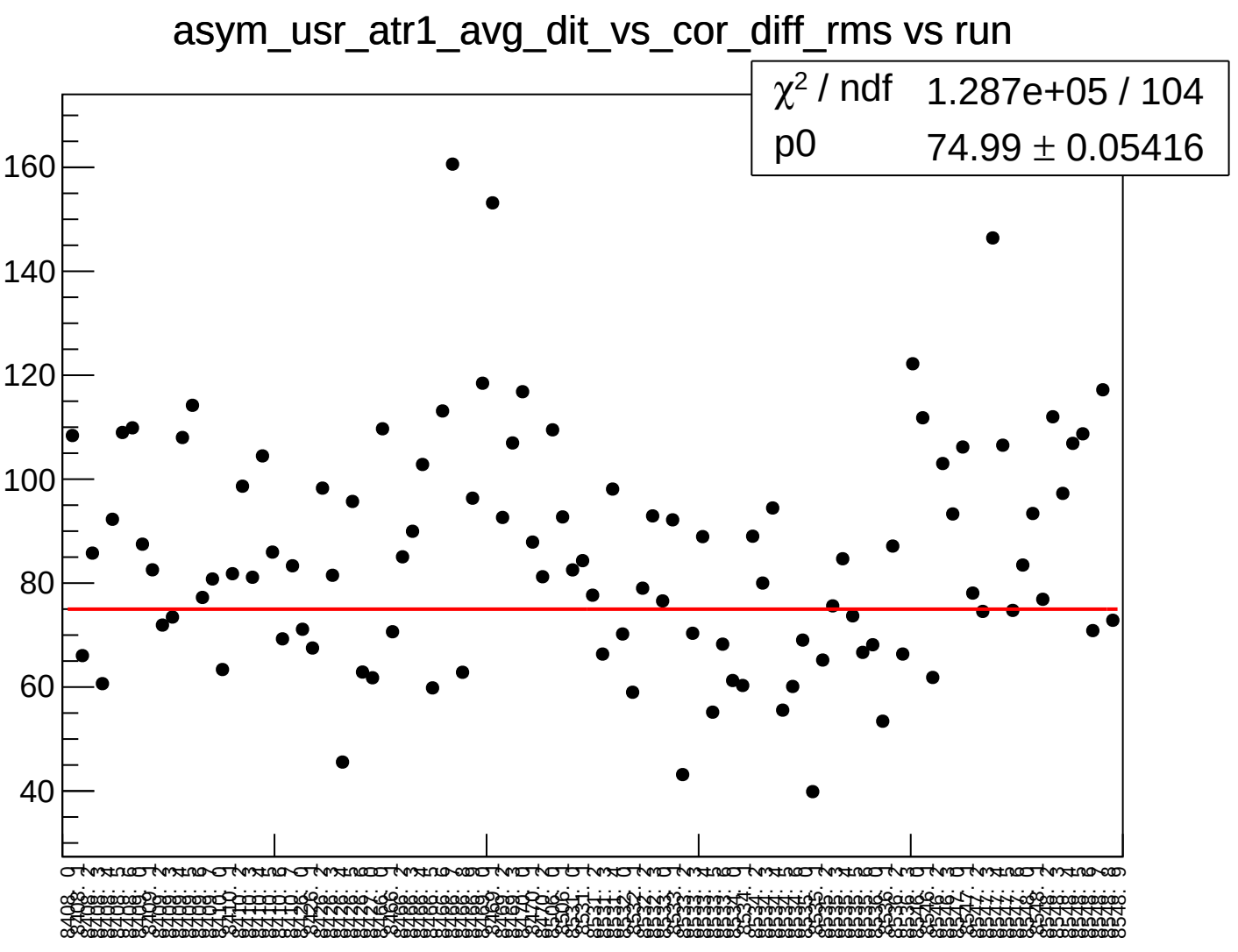

asym_usr_atr1_avg_rms vs run
χ² / ndf 1.486e+04 / 104
p0 2707 ± 1.899
3400
3200
3000
2800
2600
2400

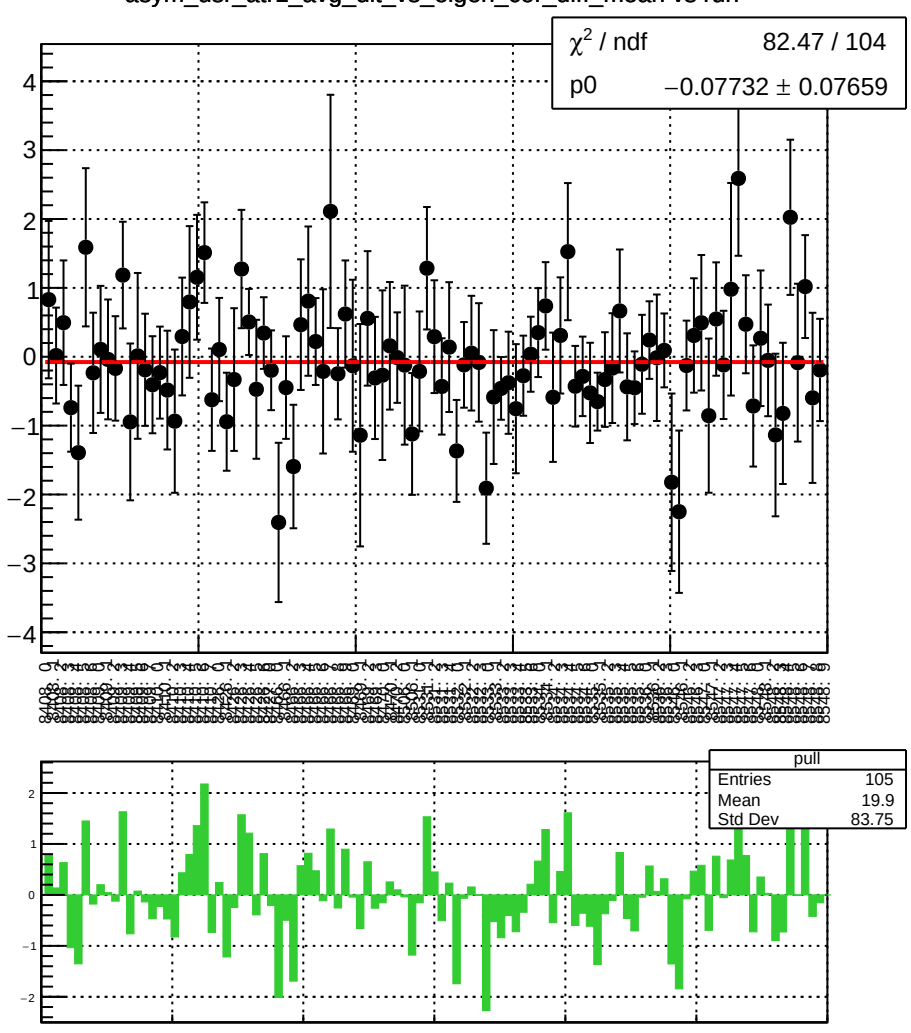

asym_usr_atr1_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 121.2 / 104
p0 2.262e−13 ± 2.368e−13
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 105
Mean 4.31
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.05518
Std Dev 1.073
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

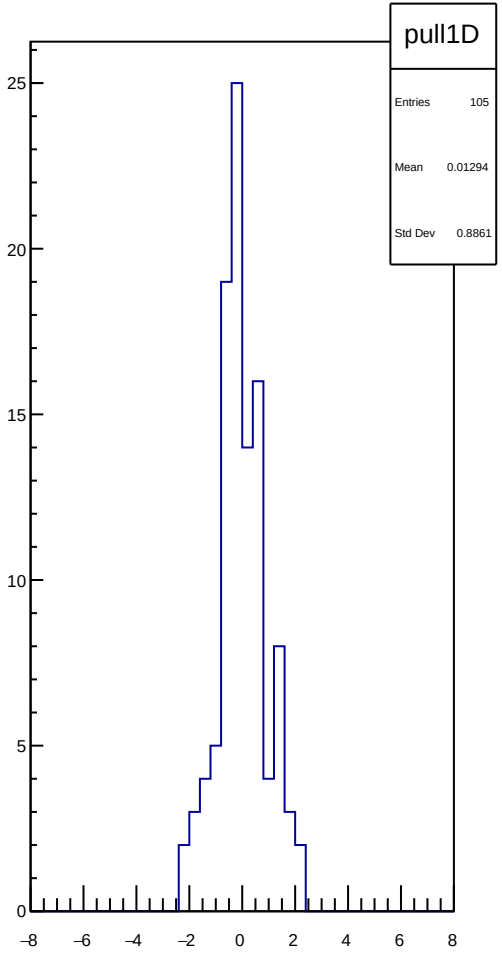

asym_usr_atr1_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.372e+06 / 104
p0 1.375e−10 ± 1.675e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

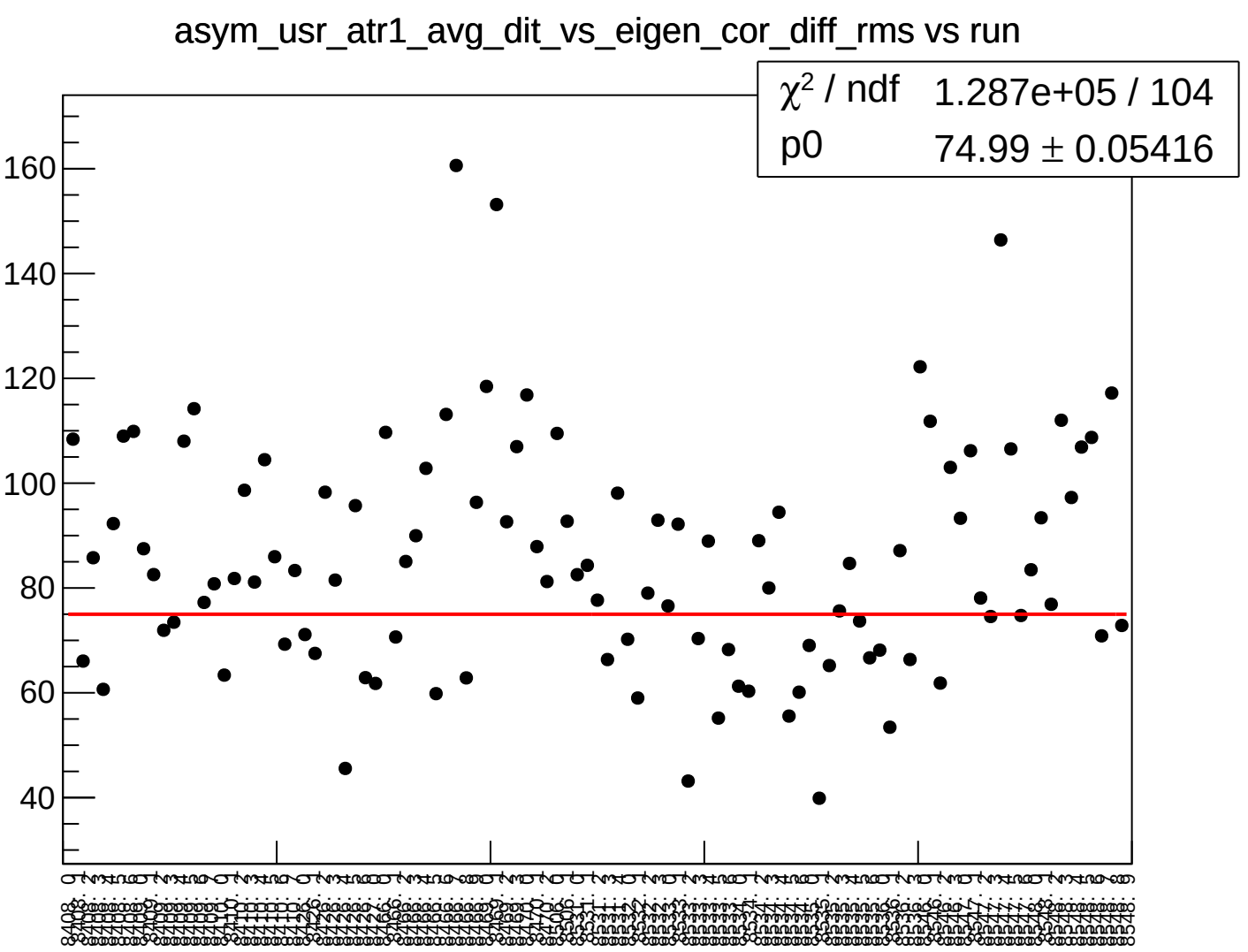

asym_usr_atr1_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 82.47 / 104
p0 −0.07732 ± 0.07659
pull
Entries 105
Mean 19.9
Std Dev 83.75

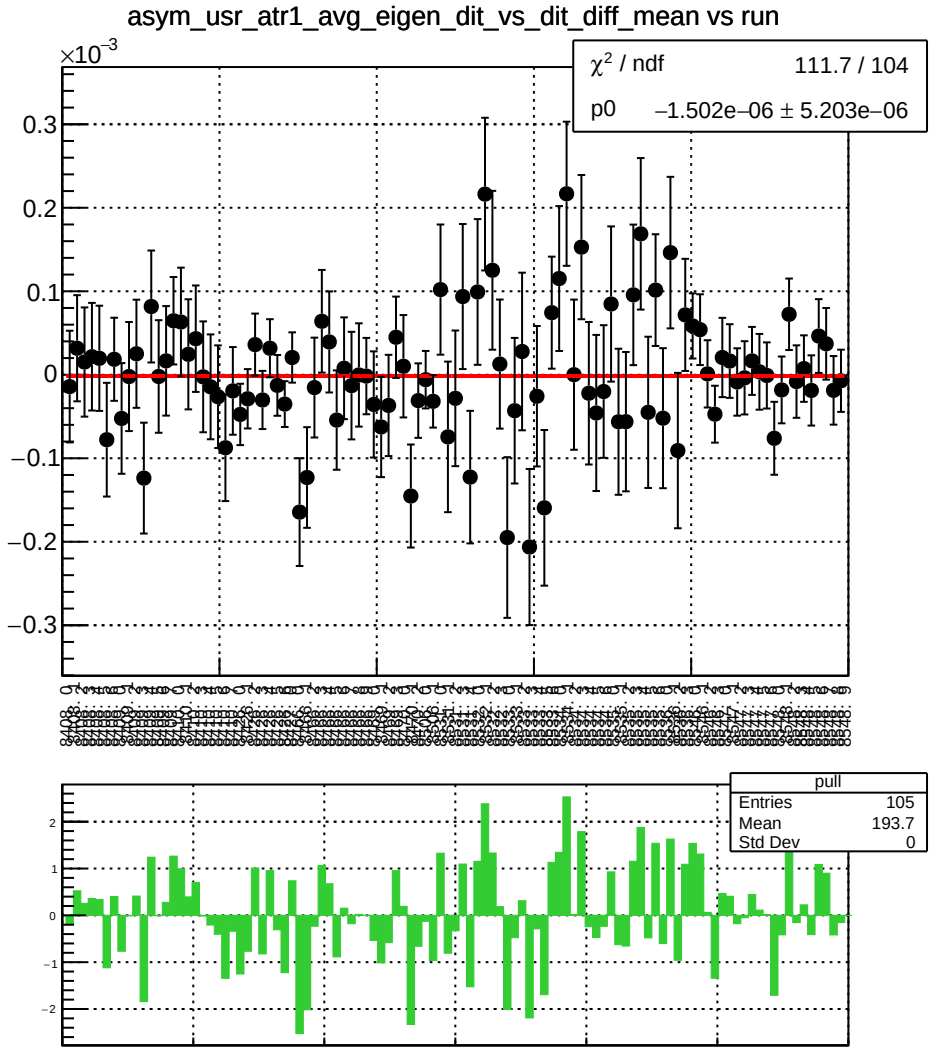

pull1D
Entries 105
Mean 0.01294
Std Dev 0.8861

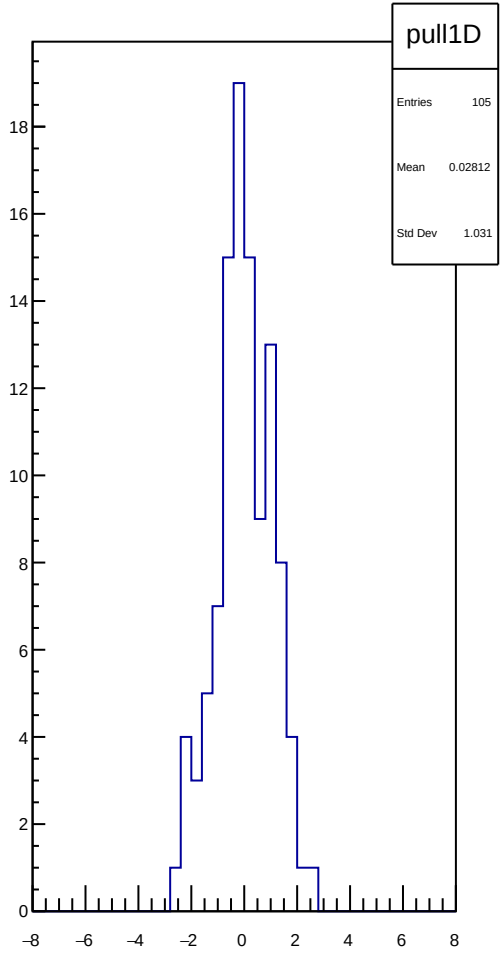

asym_usr_atr1_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.287e+05 / 104
p0 74.99 ± 0.05416
160
140
120
100
80
60
40

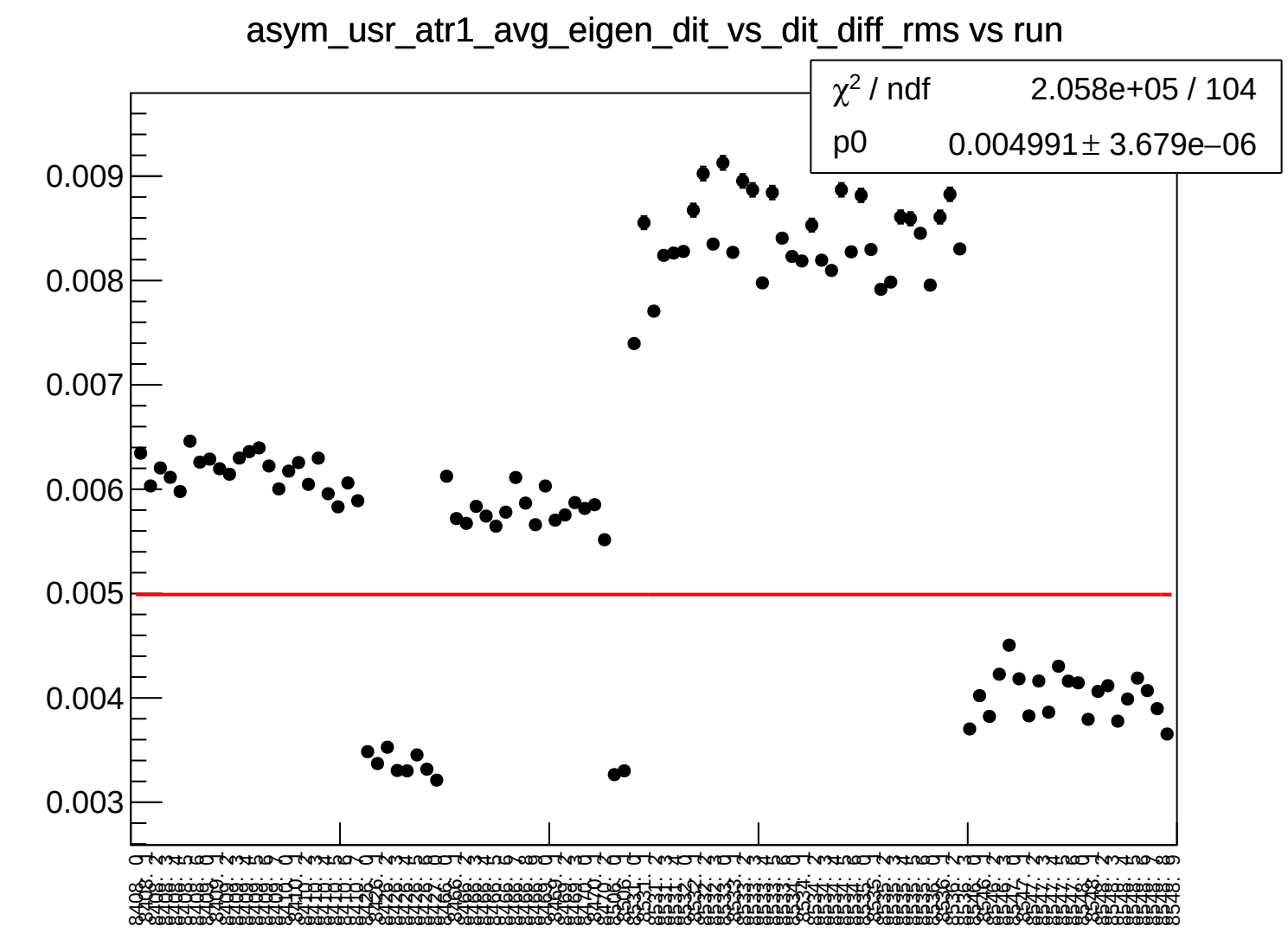

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.47 / 104
p0 −0.07732 ± 0.07659
pull
Entries 105
Mean 19.9
Std Dev 83.75

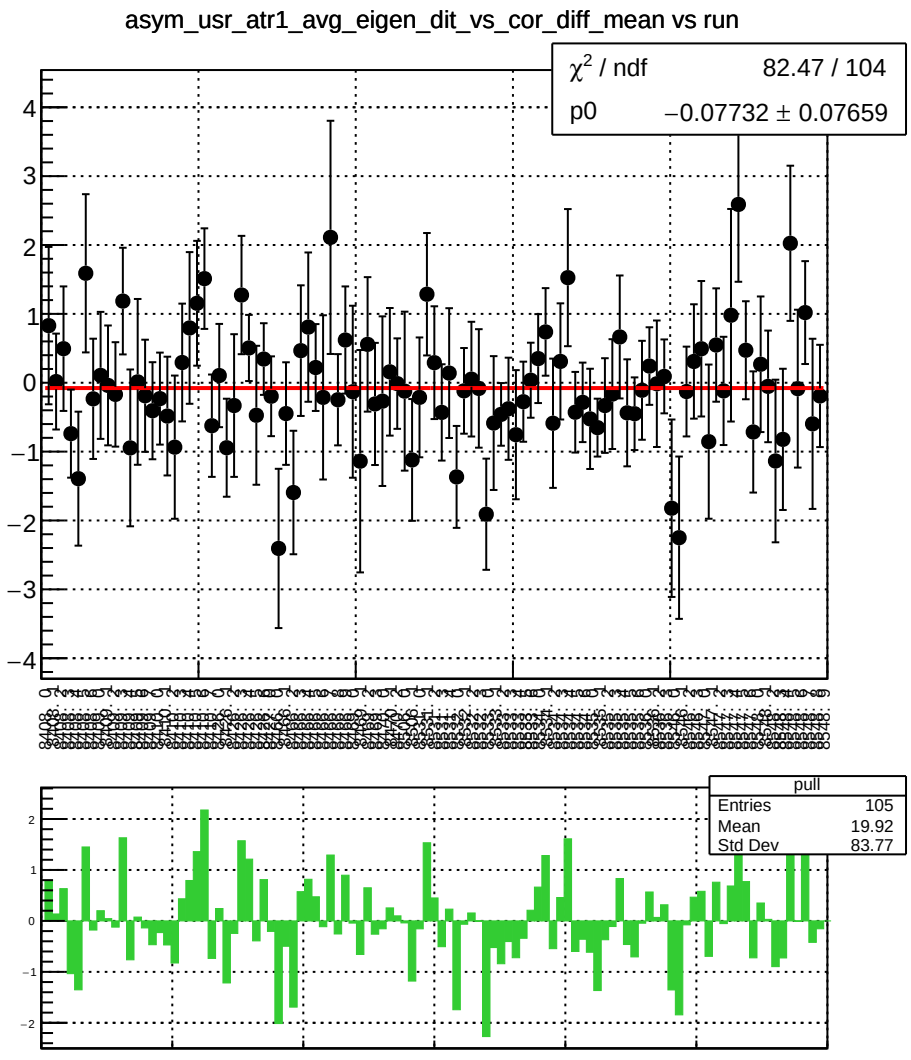

pull1D
Entries 105
Mean 0.01294
Std Dev 0.8861

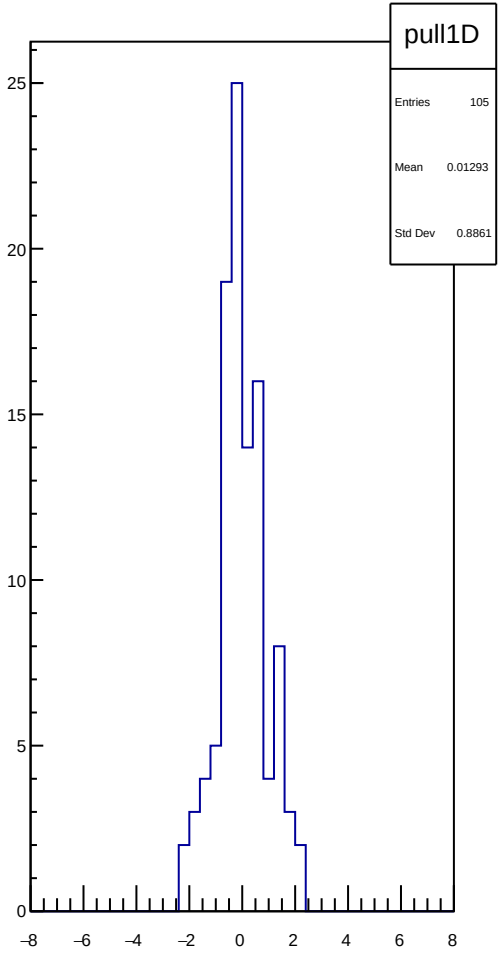

asym_usr_atr1_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.287e+05 / 104
p0 74.99 ± 0.05416
160
140
120
100
80
60
40

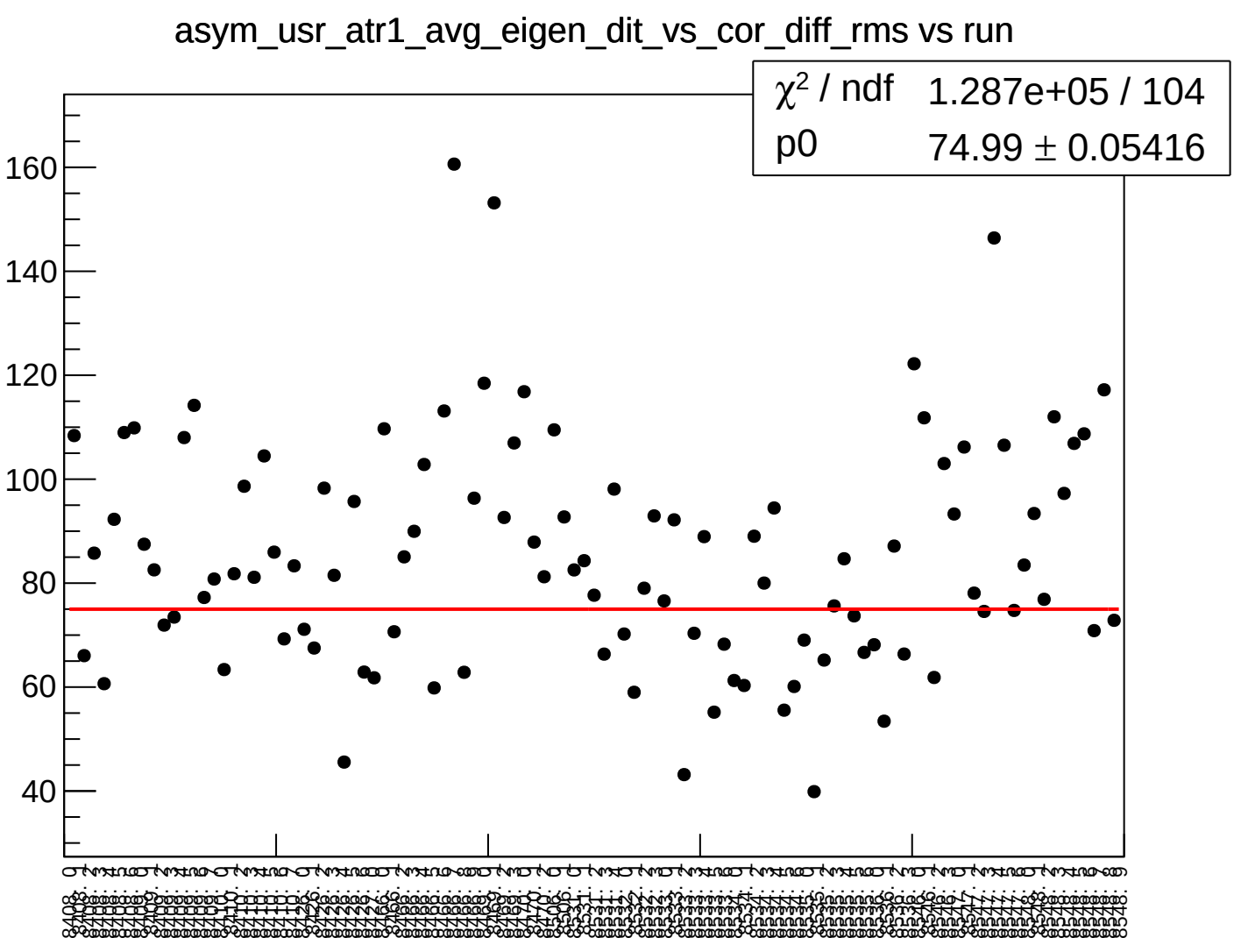

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 111.7 / 104
p0 −1.502e−06 ± 5.203e−06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 105
Mean 193.7
Std Dev 0
2
1
0
−1
−2

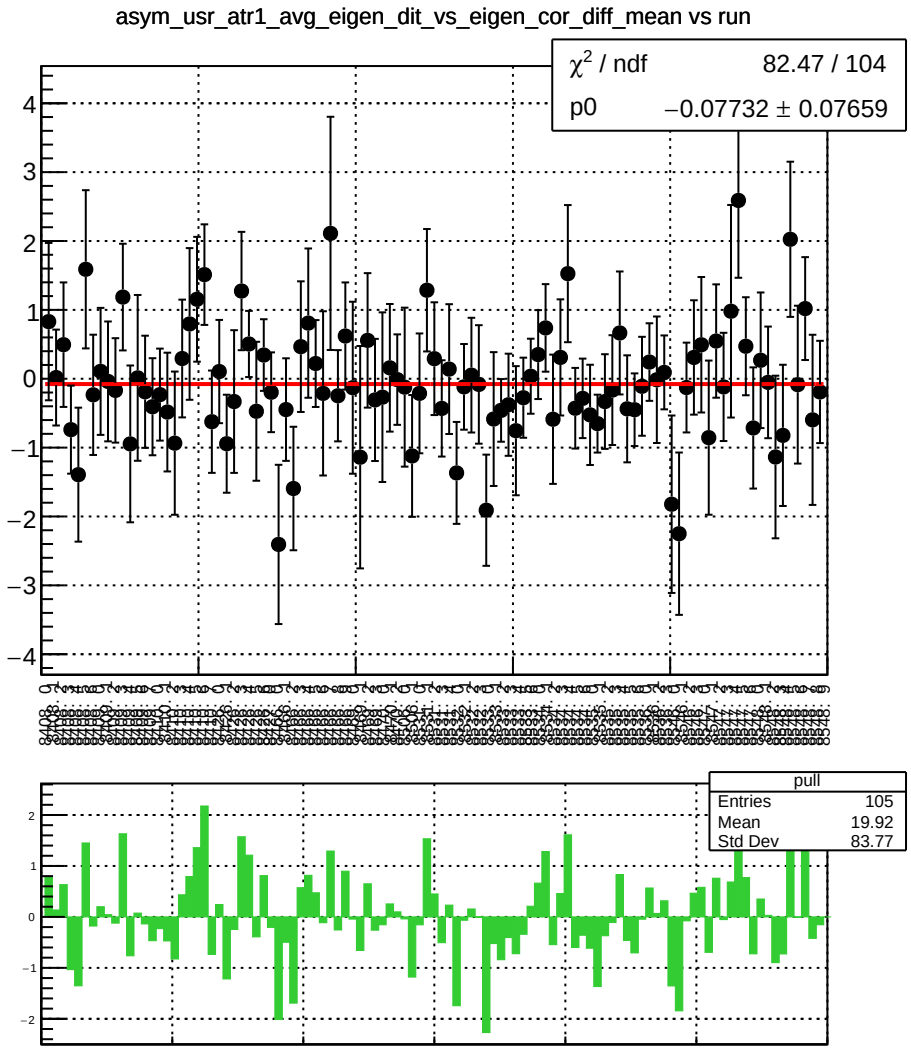

pull1D
Entries 105
Mean 0.02812
Std Dev 1.031
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

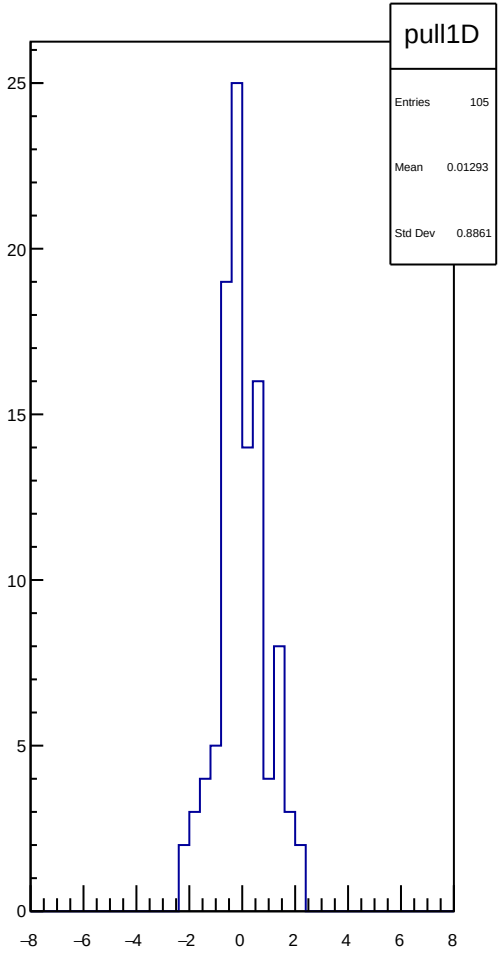

asym_usr_atr1_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.058e+05 / 104
p0 0.004991 ± 3.679e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003

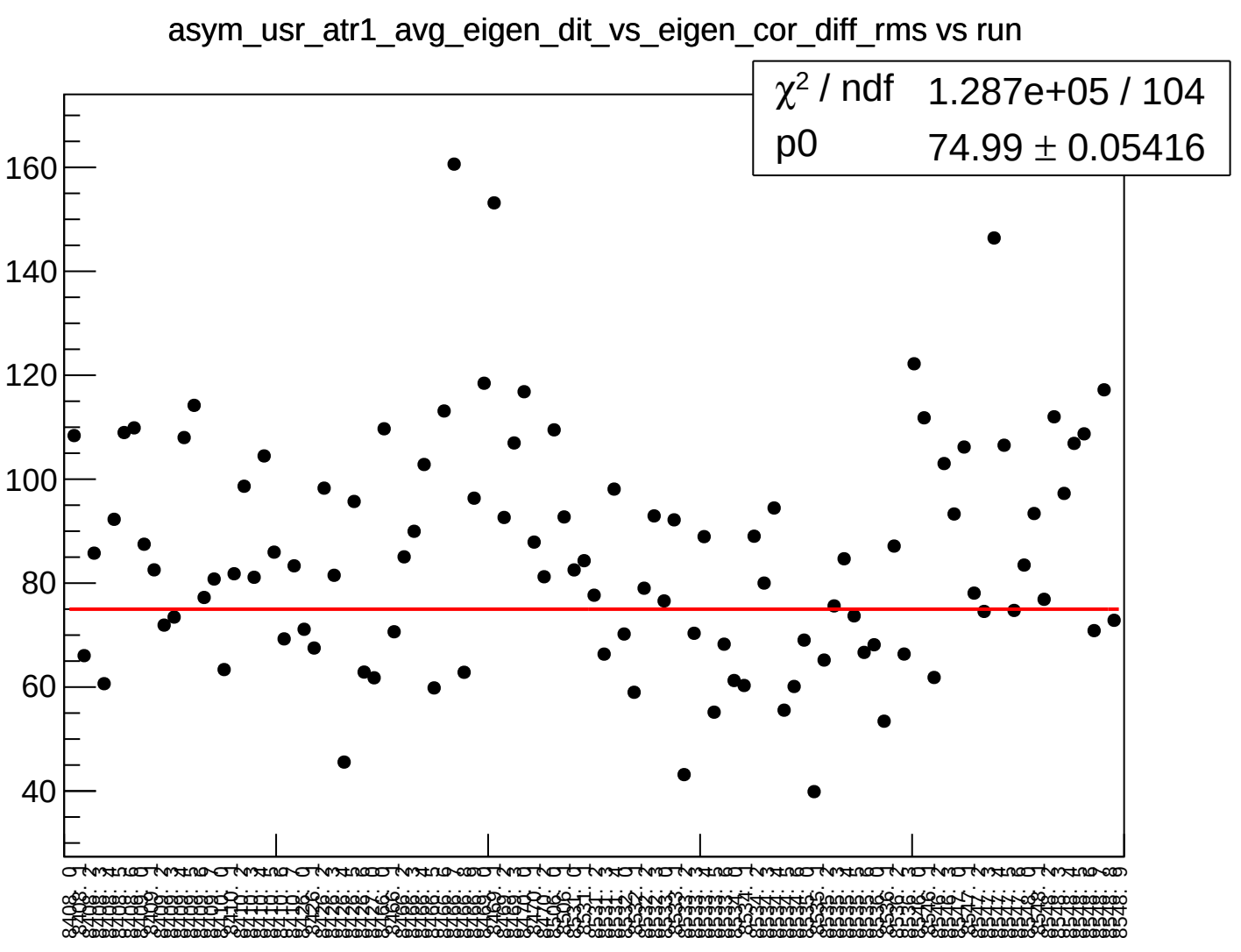

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 82.47 / 104
p0 −0.07732 ± 0.07659
pull
Entries 105
Mean 19.92
Std Dev 83.77

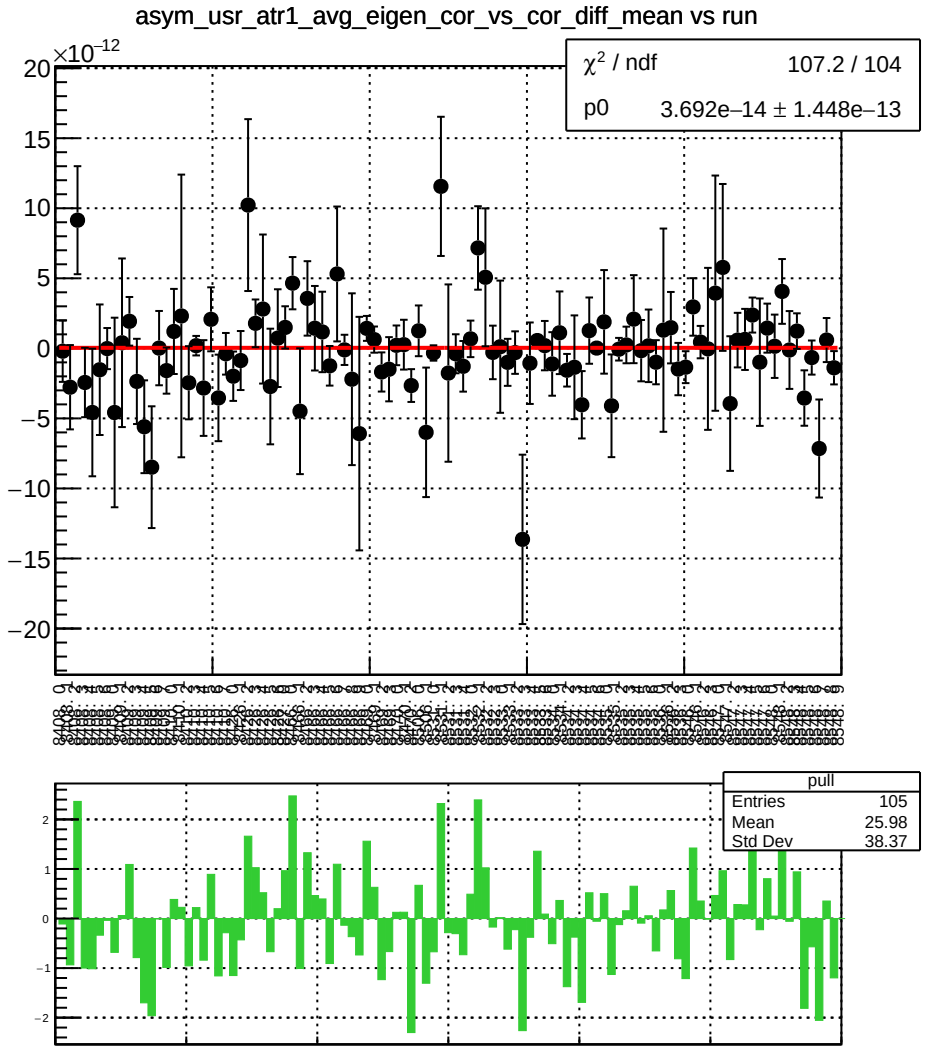

pull1D
Entries 105
Mean 0.01293
Std Dev 0.8861

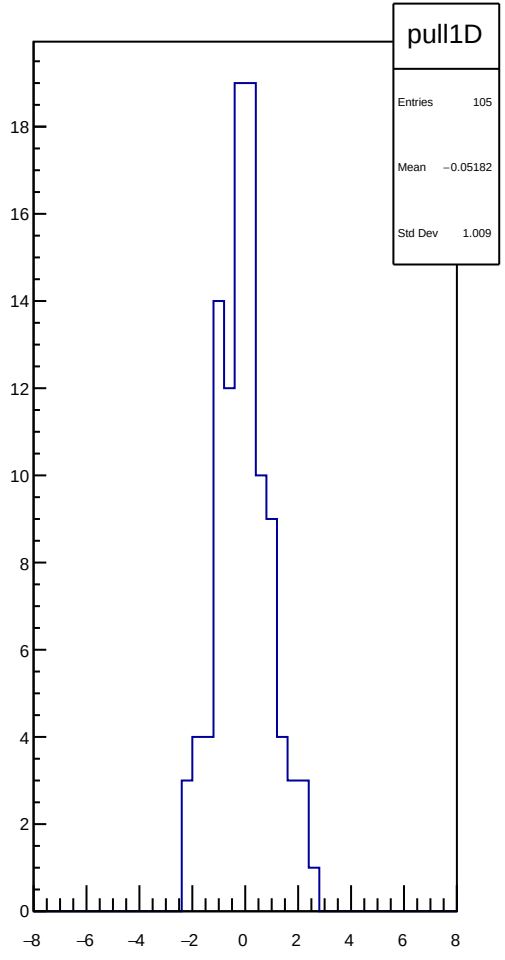

asym_usr_atr1_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.287e+05 / 104
p0 74.99 ± 0.05416
160
140
120
100
80
60
40

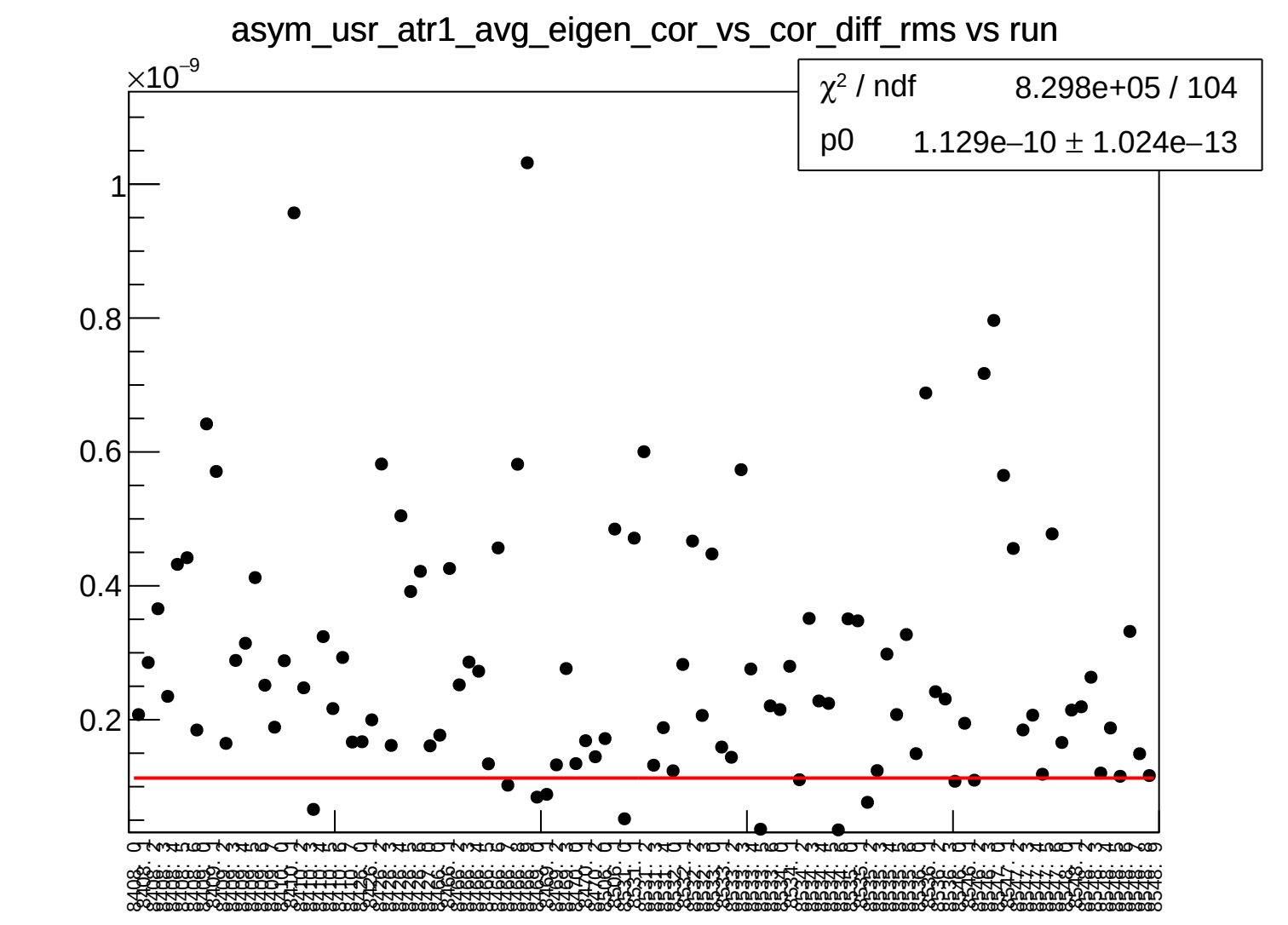

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 82.47 / 104
p0 −0.07732 ± 0.07659
pull
Entries 105
Mean 19.92
Std Dev 83.77

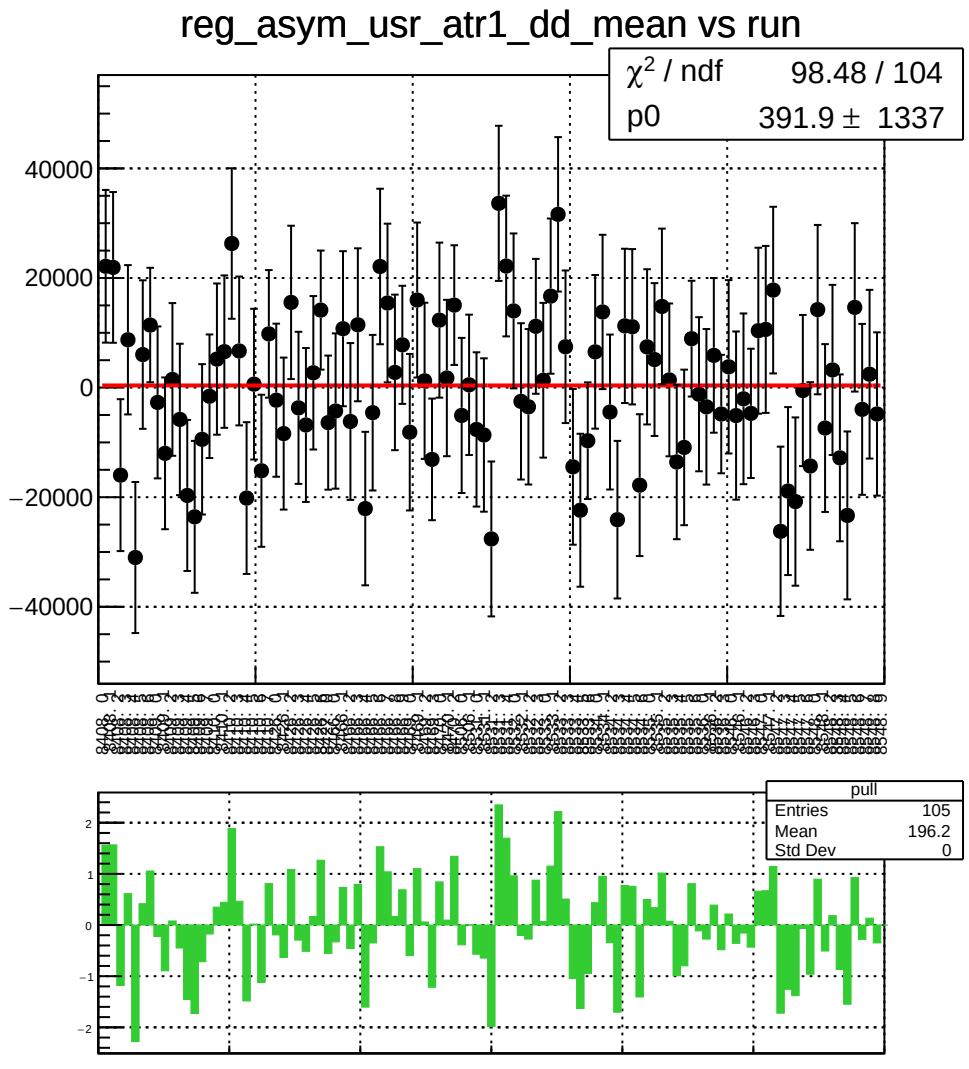

pull1D
Entries 105
Mean 0.01293
Std Dev 0.8861

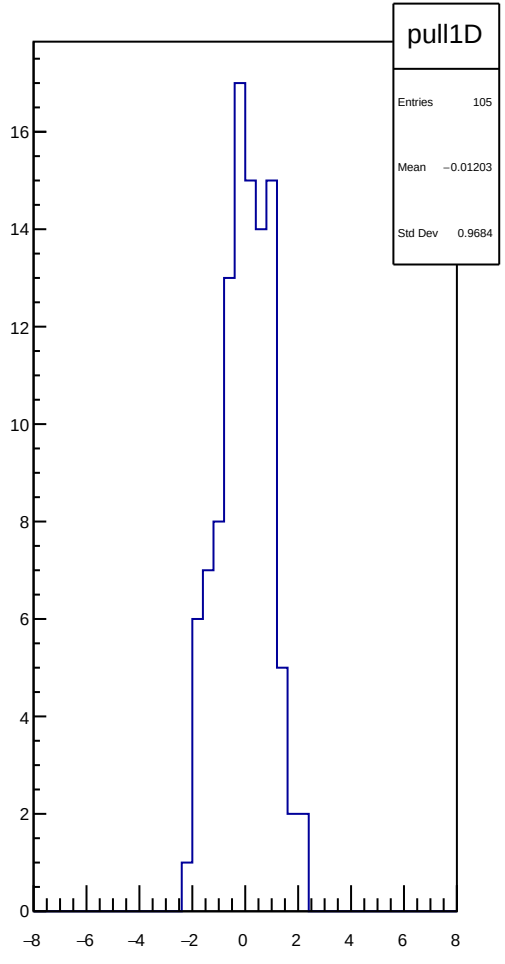

asym_usr_atr1_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.287e+05 / 104
p0 74.99 ± 0.05416
160
140
120
100
80
60
40

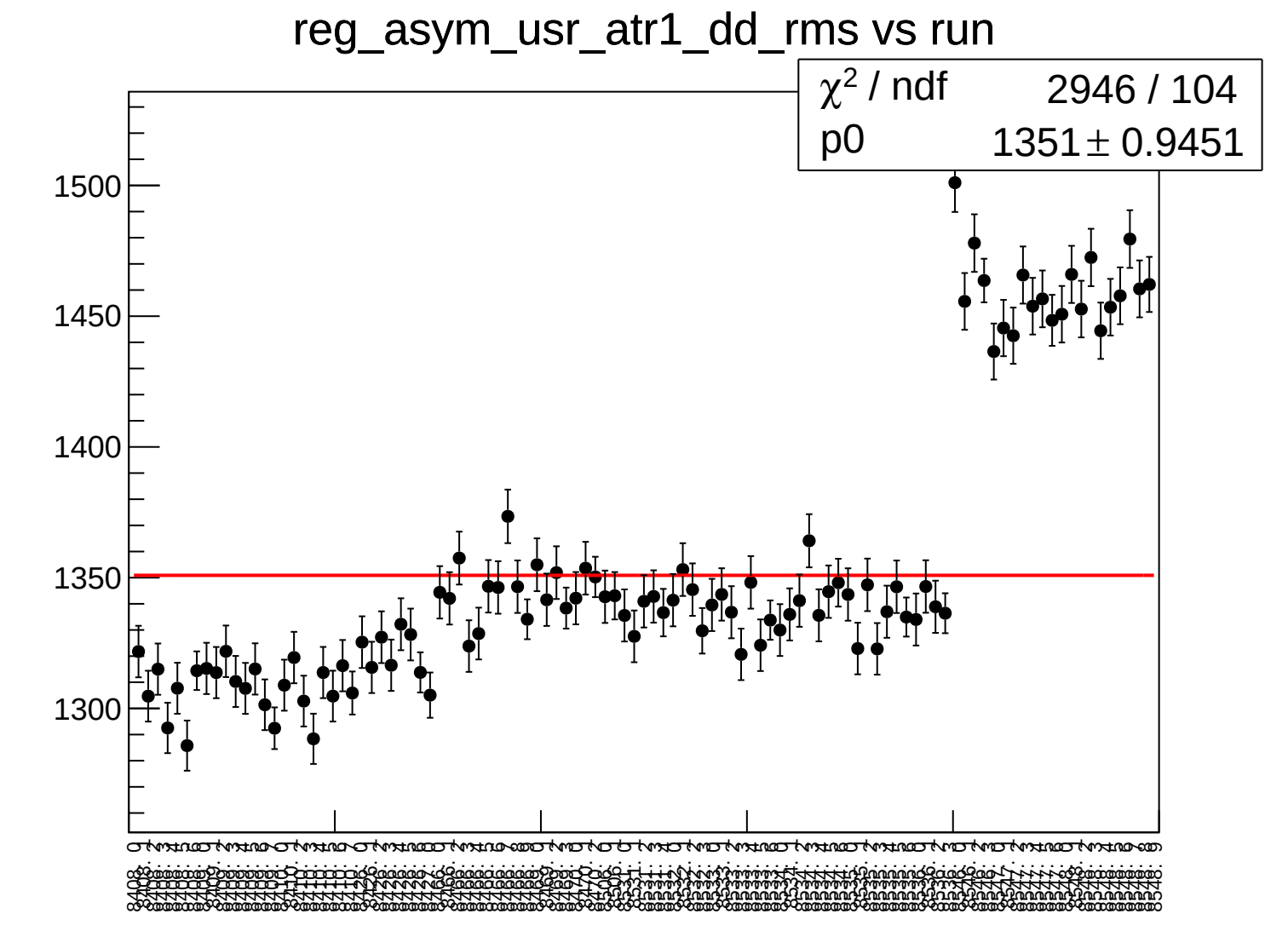

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 107.2 / 104
p0 3.692e−14 ± 1.448e−13
pull
Entries 105
Mean 25.98
Std Dev 38.37

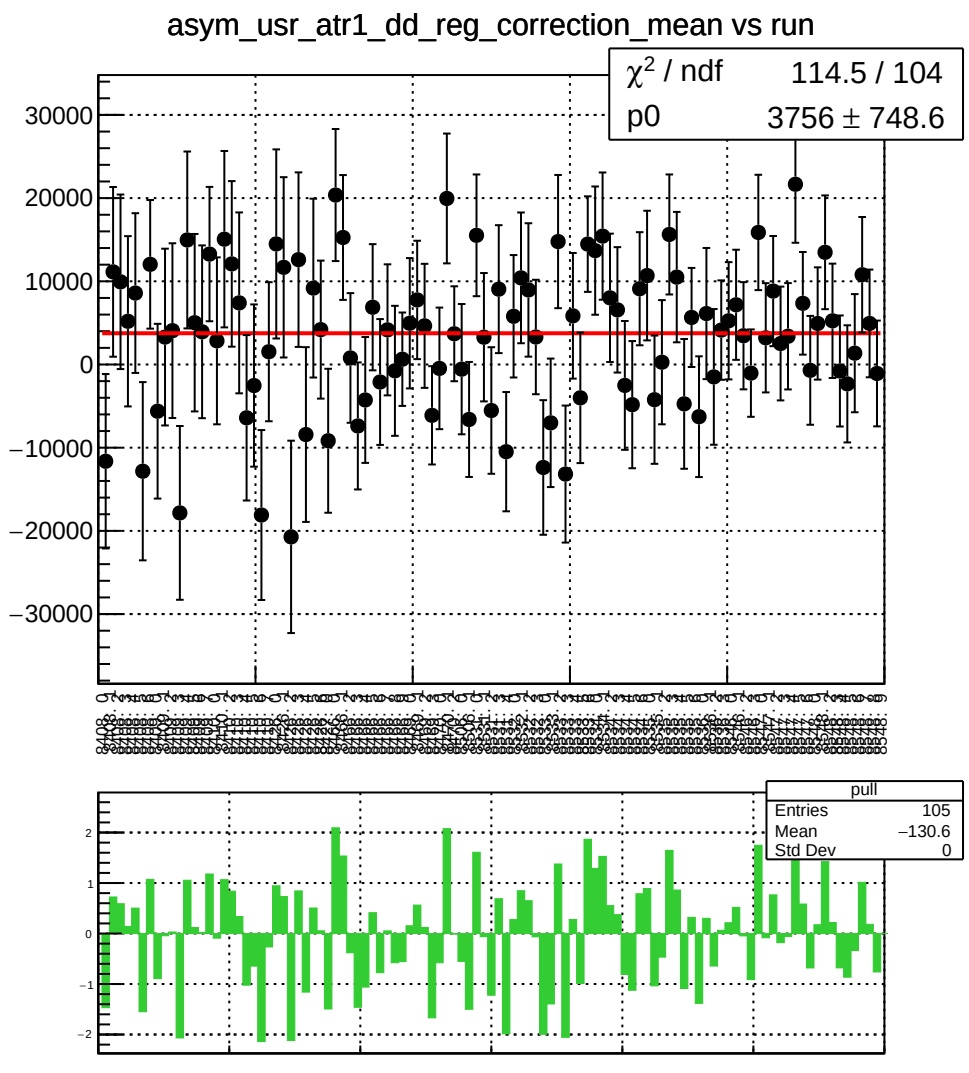

pull1D
Entries 105
Mean −0.05182
Std Dev 1.009

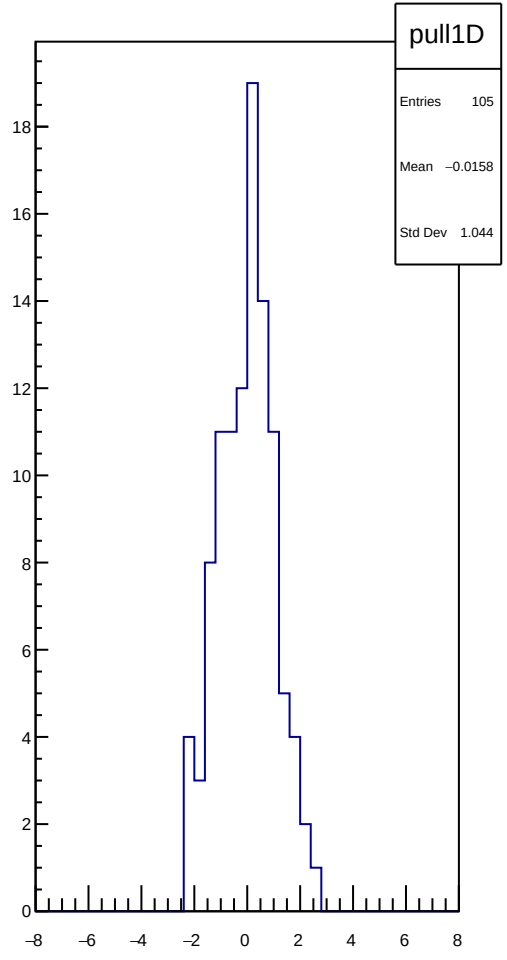

asym_usr_atr1_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.298e+05 / 104
p0 1.129e−10 ± 1.024e−13
1
0.8
0.6
0.4
0.2


reg_asym_usr_atr1_dd_mean vs run
χ² / ndf 98.48 / 104
p0 391.9 ± 1337
40000
20000
0
−20000
−40000
pull
Entries 105
Mean 196.2
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 105
Mean −0.01203
Std Dev 0.9684
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 2946 / 104
p0 1351 ± 0.9451
1500
1450
1400
1350
1300


asym_usr_atr1_dd_reg_correction_mean vs run
χ² / ndf 114.5 / 104
p0 3756 ± 748.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 105
Mean −130.6
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 105
Mean −0.0158
Std Dev 1.044
18
16
14
12
10
8
6
4
2
0
−8
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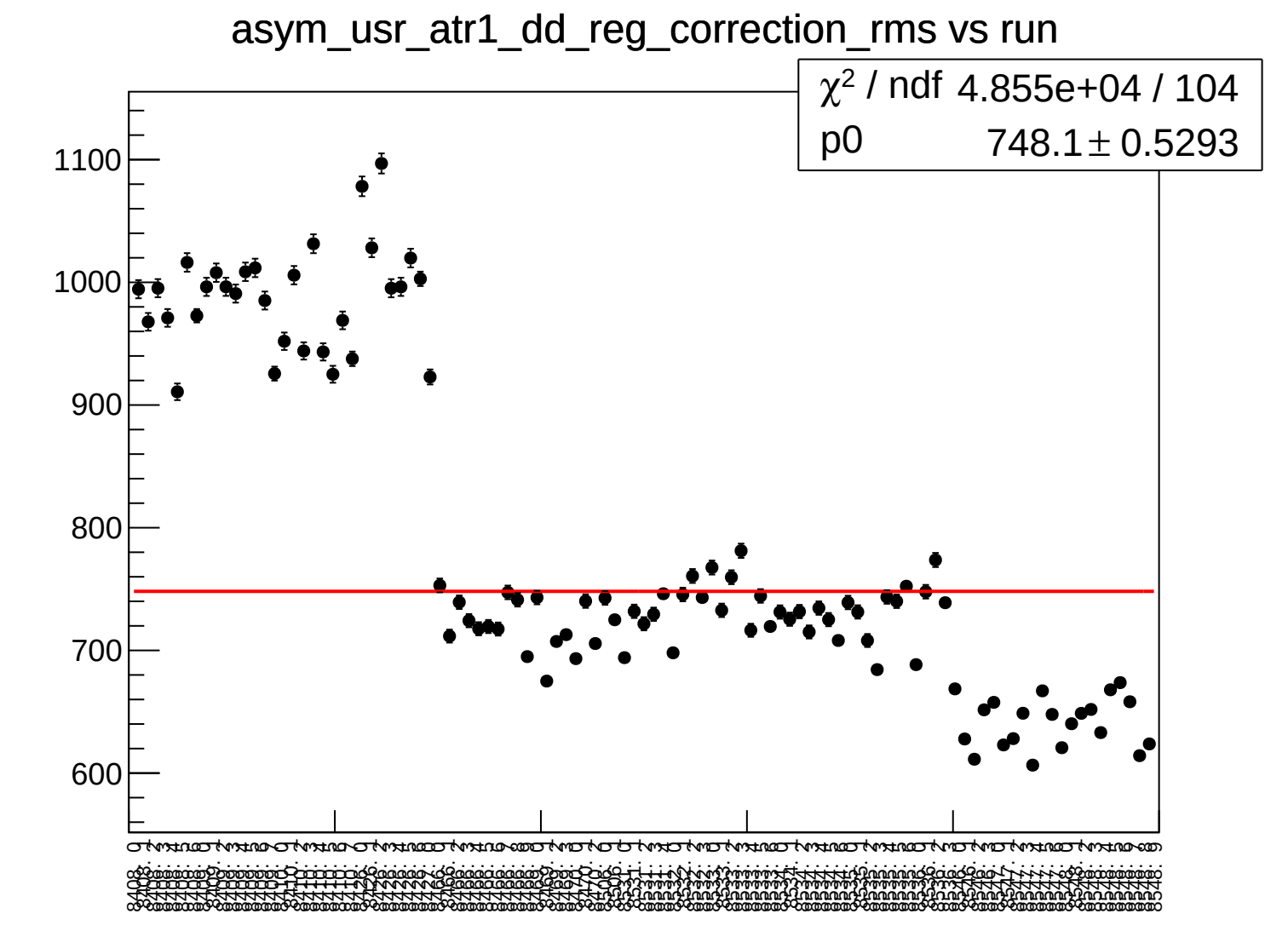
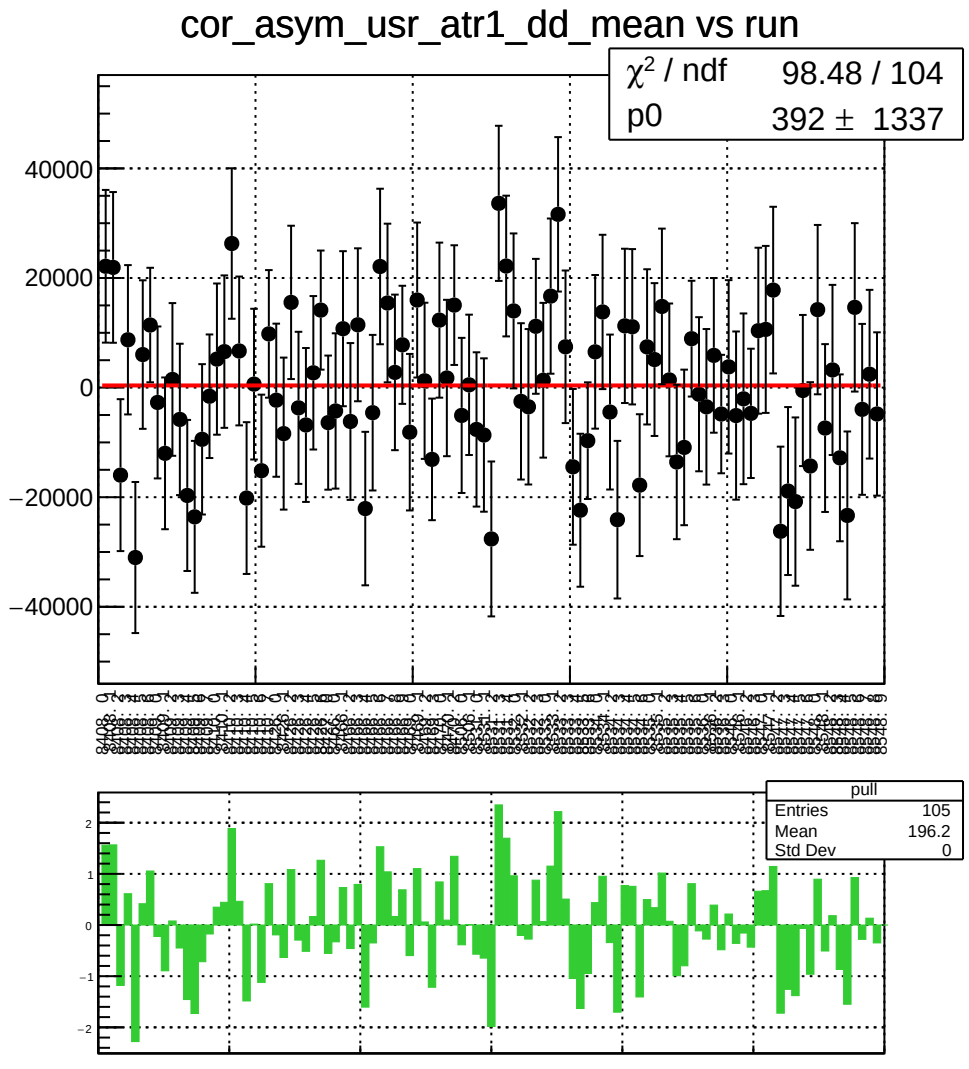
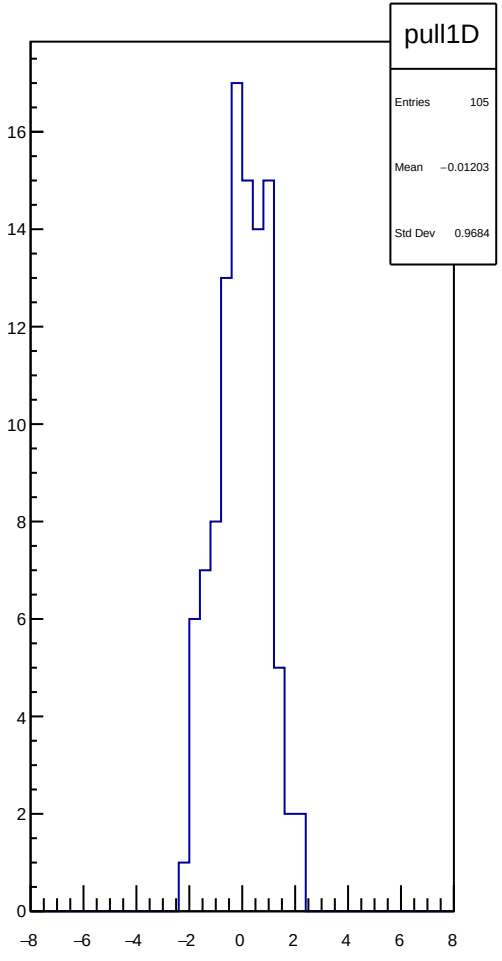
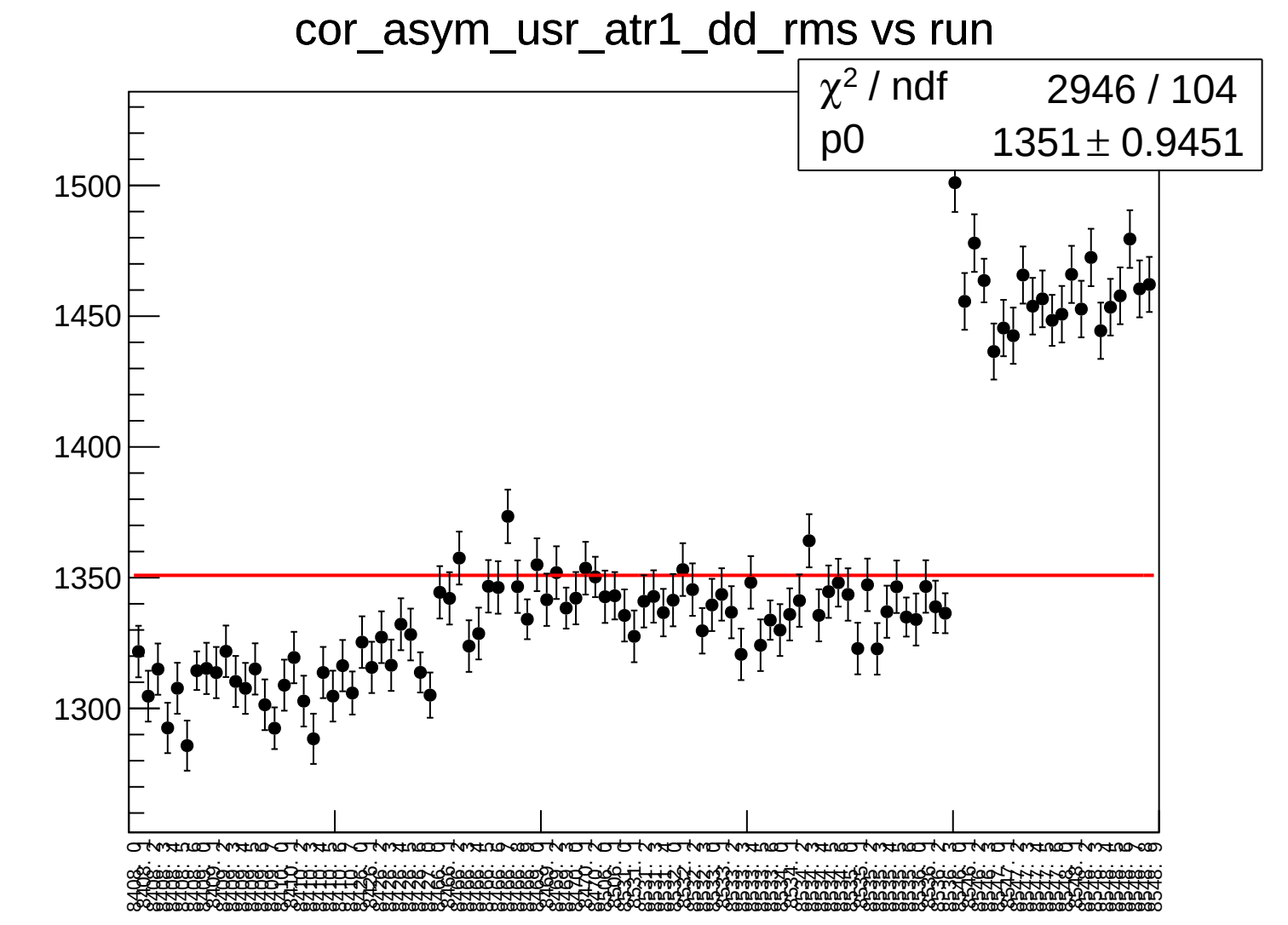
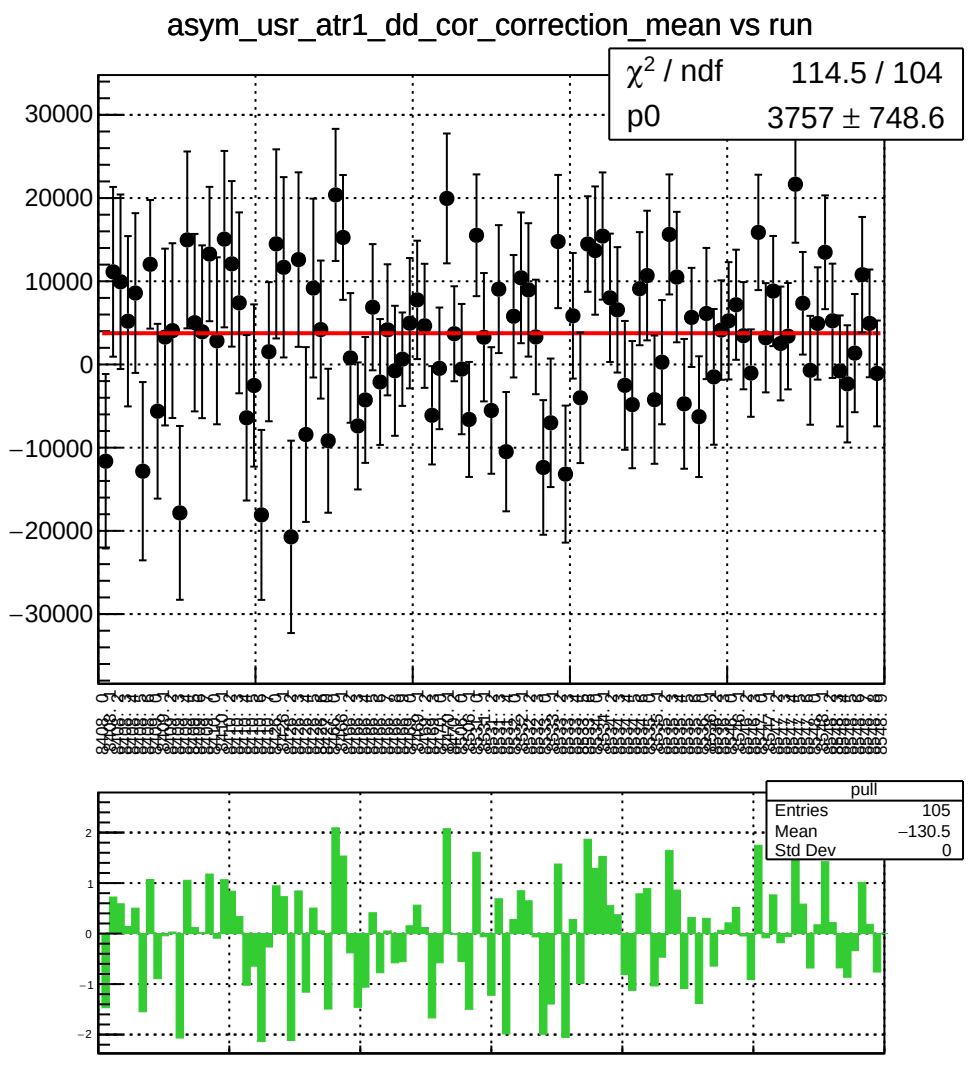
2
4
6
8

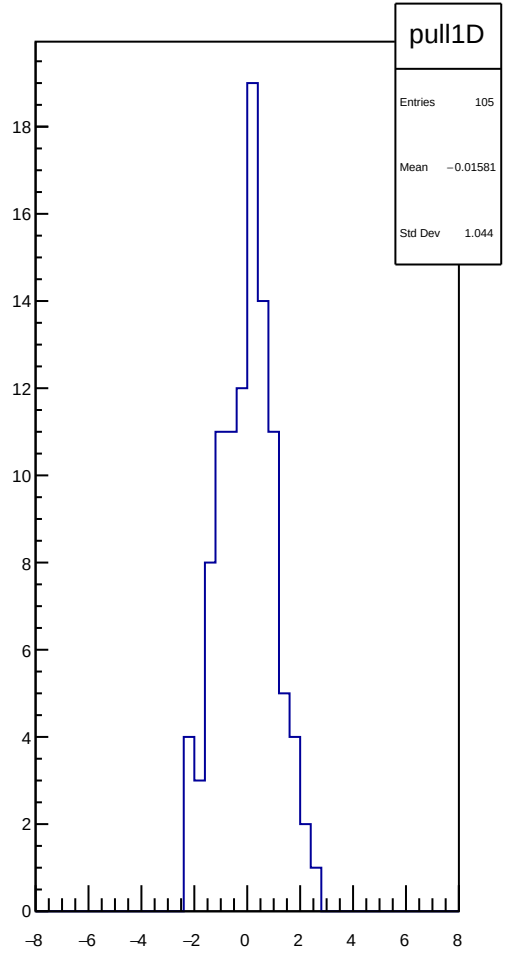

asym_usr_atr1_dd_reg_correction_rms vs run
χ² / ndf 4.855e+04 / 104
p0 748.1 ± 0.5293
1100
1000
900
800
700
600


cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 98.48 / 104
p0 392 ± 1337
40000
20000
0
−20000
−40000
pull
Entries 105
Mean 196.2
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 105
Mean −0.01203
Std Dev 0.9684
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 2946 / 104
p0 1351 ± 0.9451
1500
1450
1400
1350
1300


asym_usr_atr1_dd_cor_correction_mean vs run
χ² / ndf 114.5 / 104
p0 3757 ± 748.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 105
Mean −130.5
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 105
Mean −0.01581
Std Dev 1.044
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16
14
12
10
8
6
4
2
0
−8
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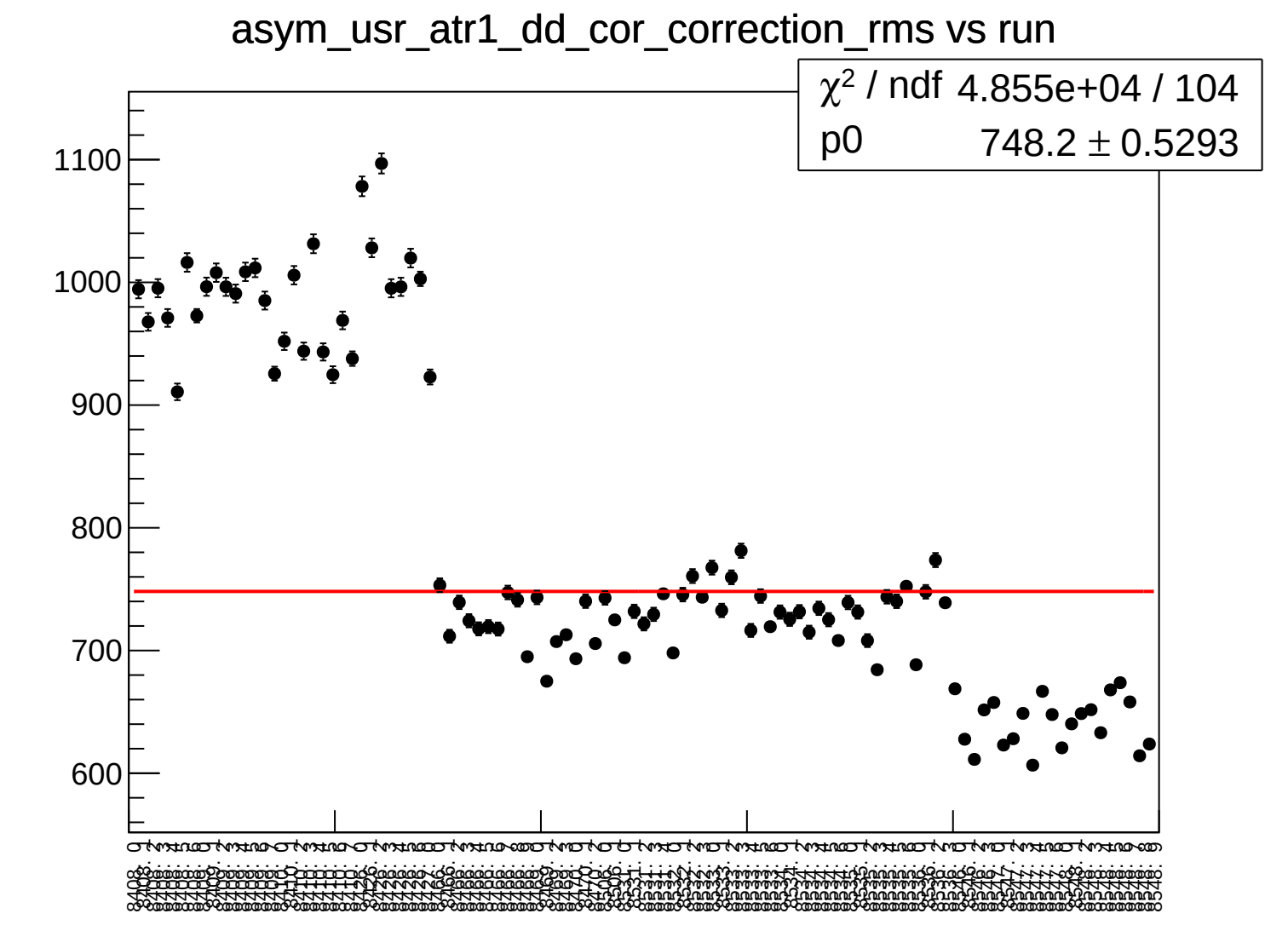
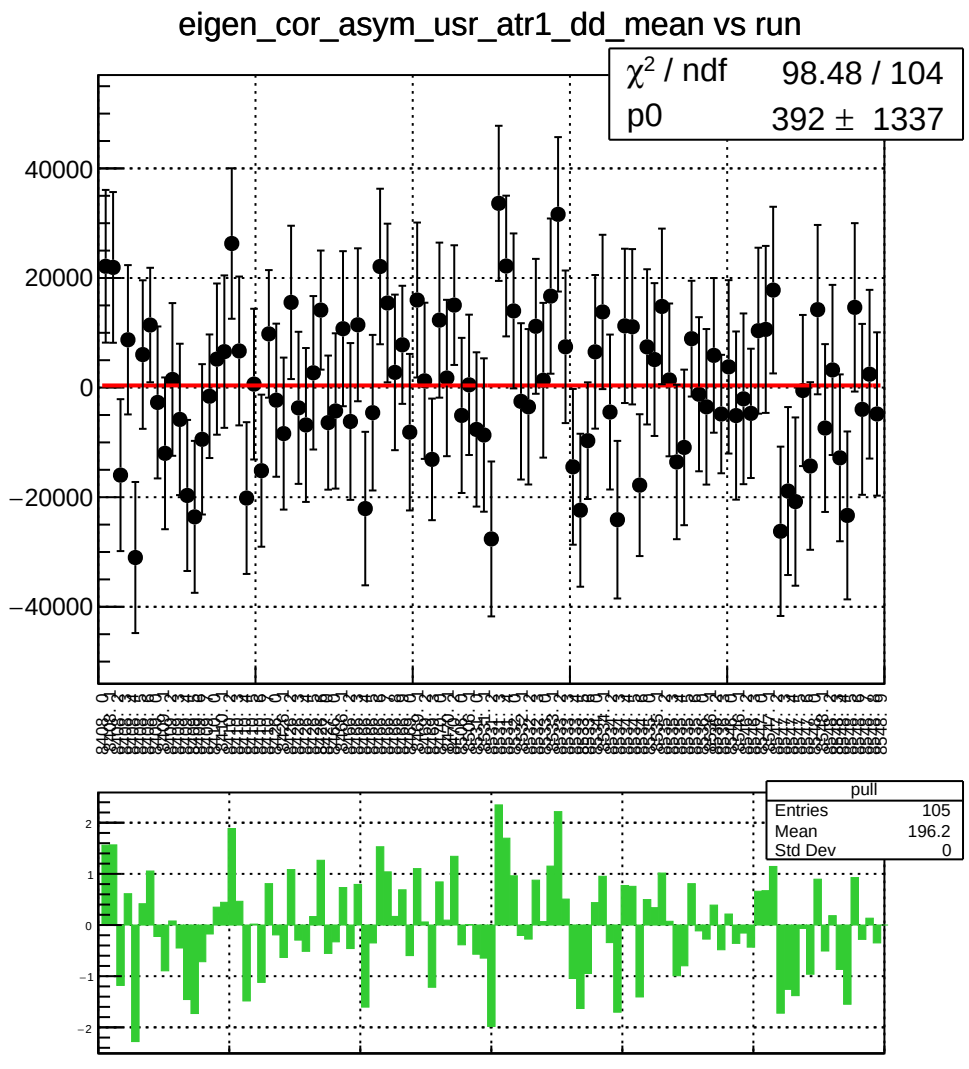
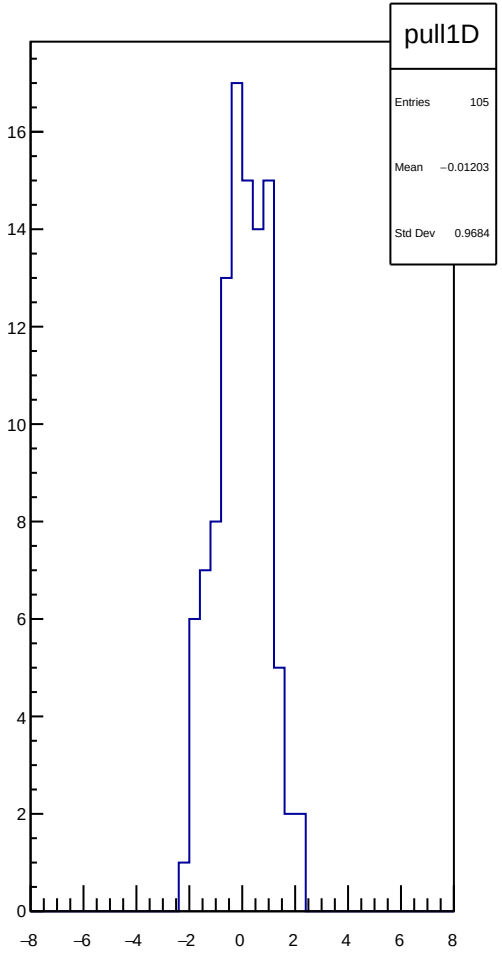
2
4
6
8


asym_usr_atr1_dd_cor_correction_rms vs run
χ² / ndf 4.855e+04 / 104
p0 748.2 ± 0.5293
1100
1000
900
800
700
600


eigen_cor_asym_usr_atr1_dd_mean vs run
χ² / ndf 98.48 / 104
p0 392 ± 1337
40000
20000
0
−20000
−40000
pull
Entries 105
Mean 196.2
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 105
Mean −0.01203
Std Dev 0.9684
16
14
12
10
8
6
4
2
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−8
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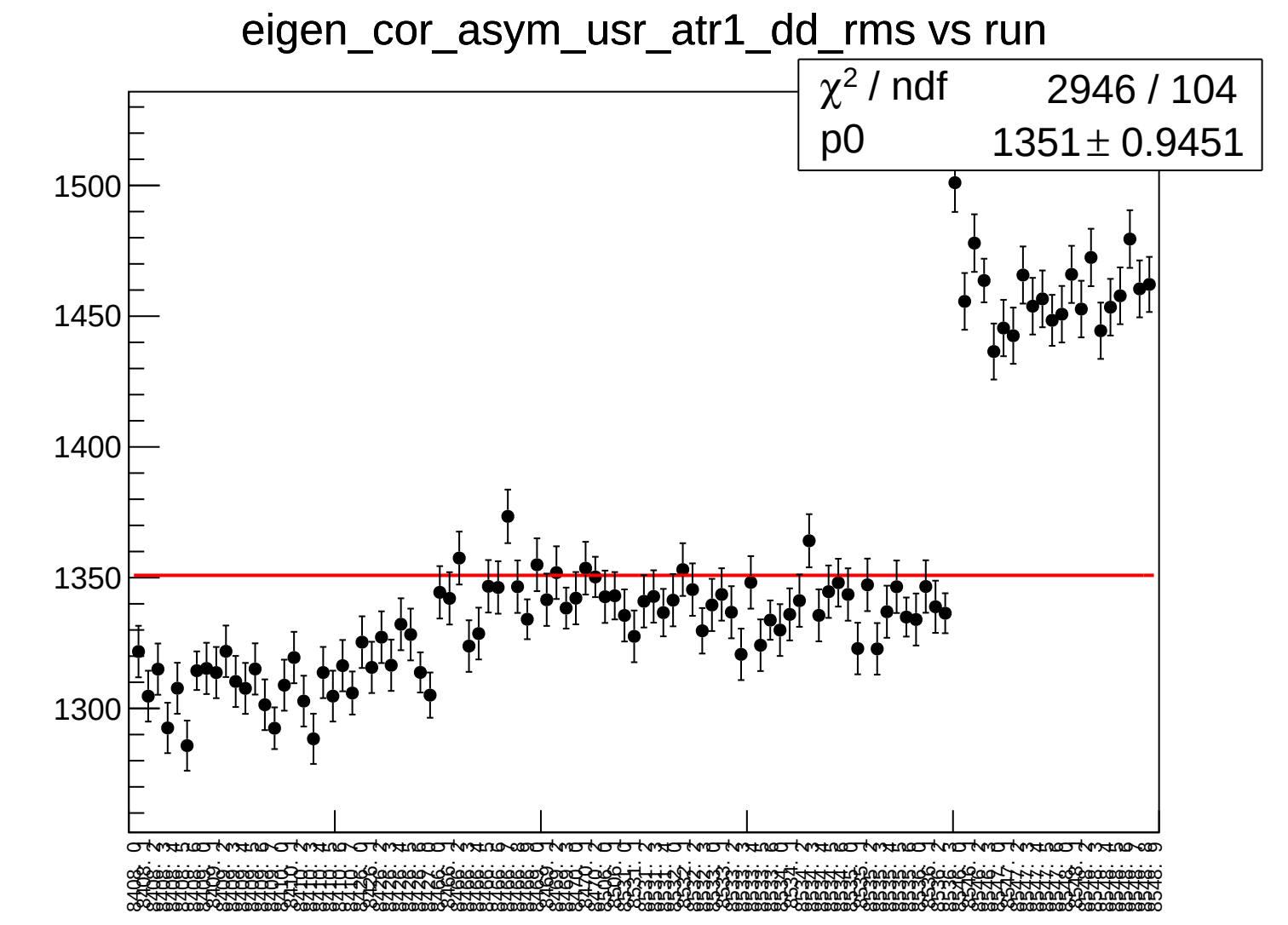
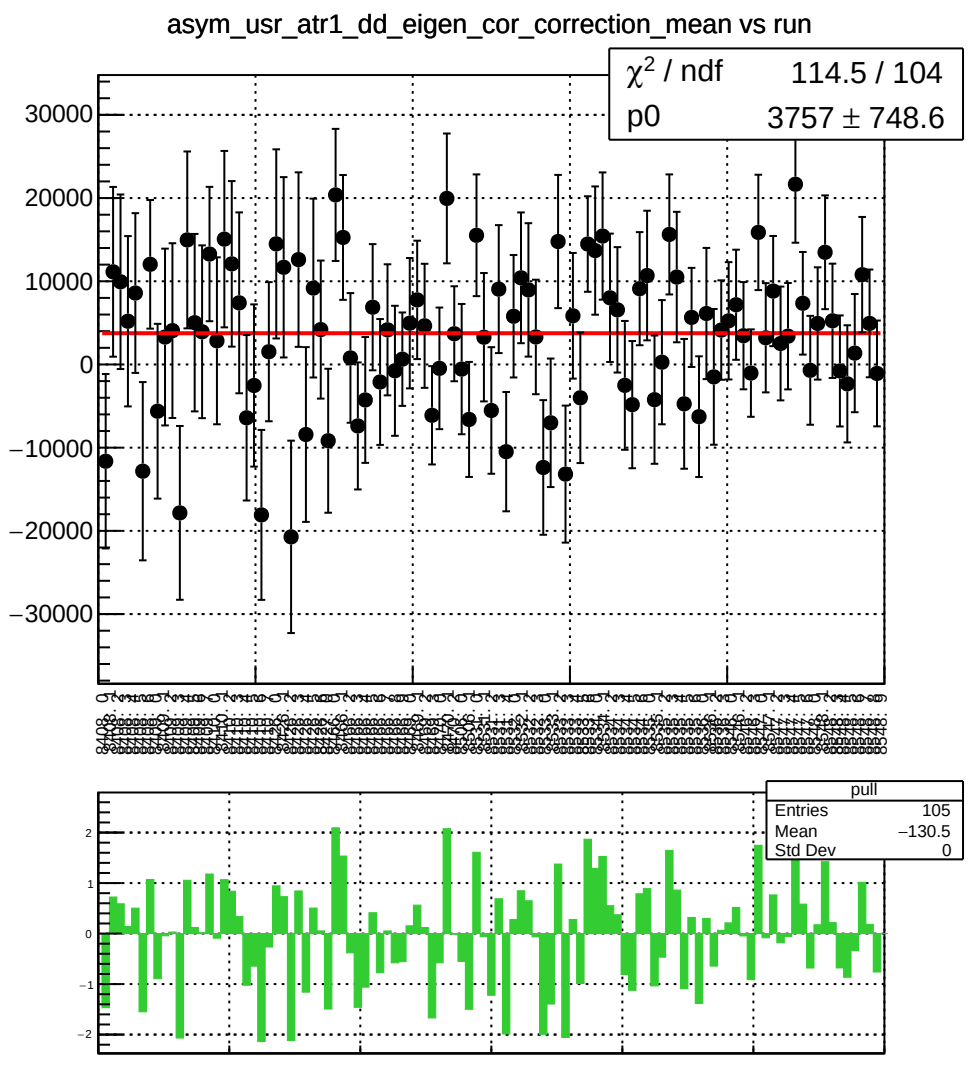
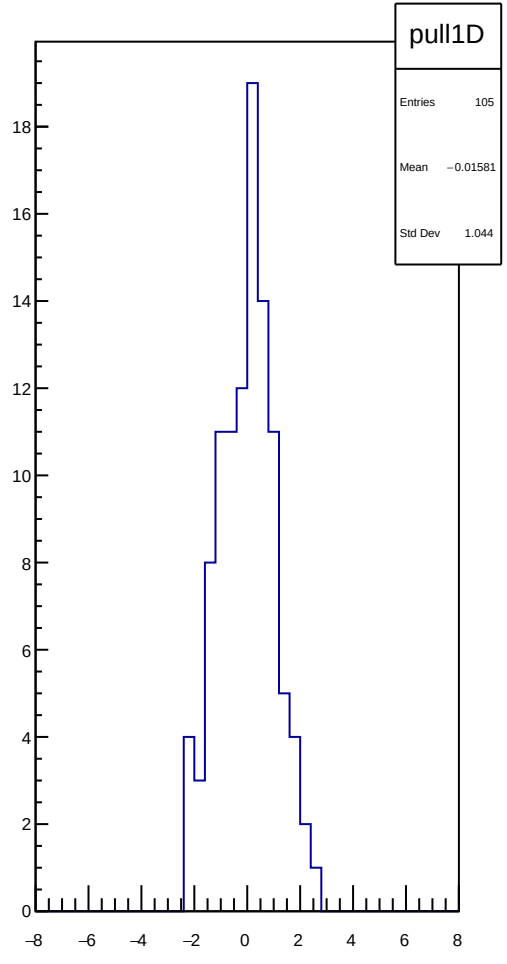
2
4
6
8


eigen_cor_asym_usr_atr1_dd_rms vs run
χ² / ndf 2946 / 104
p0 1351 ± 0.9451
1500
1450
1400
1350
1300


asym_usr_atr1_dd_eigen_cor_correction_mean vs run
χ² / ndf 114.5 / 104
p0 3757 ± 748.6
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 105
Mean −130.5
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 105
Mean −0.01581
Std Dev 1.044
18
16
14
12
10
8
6
4
2
0
−8
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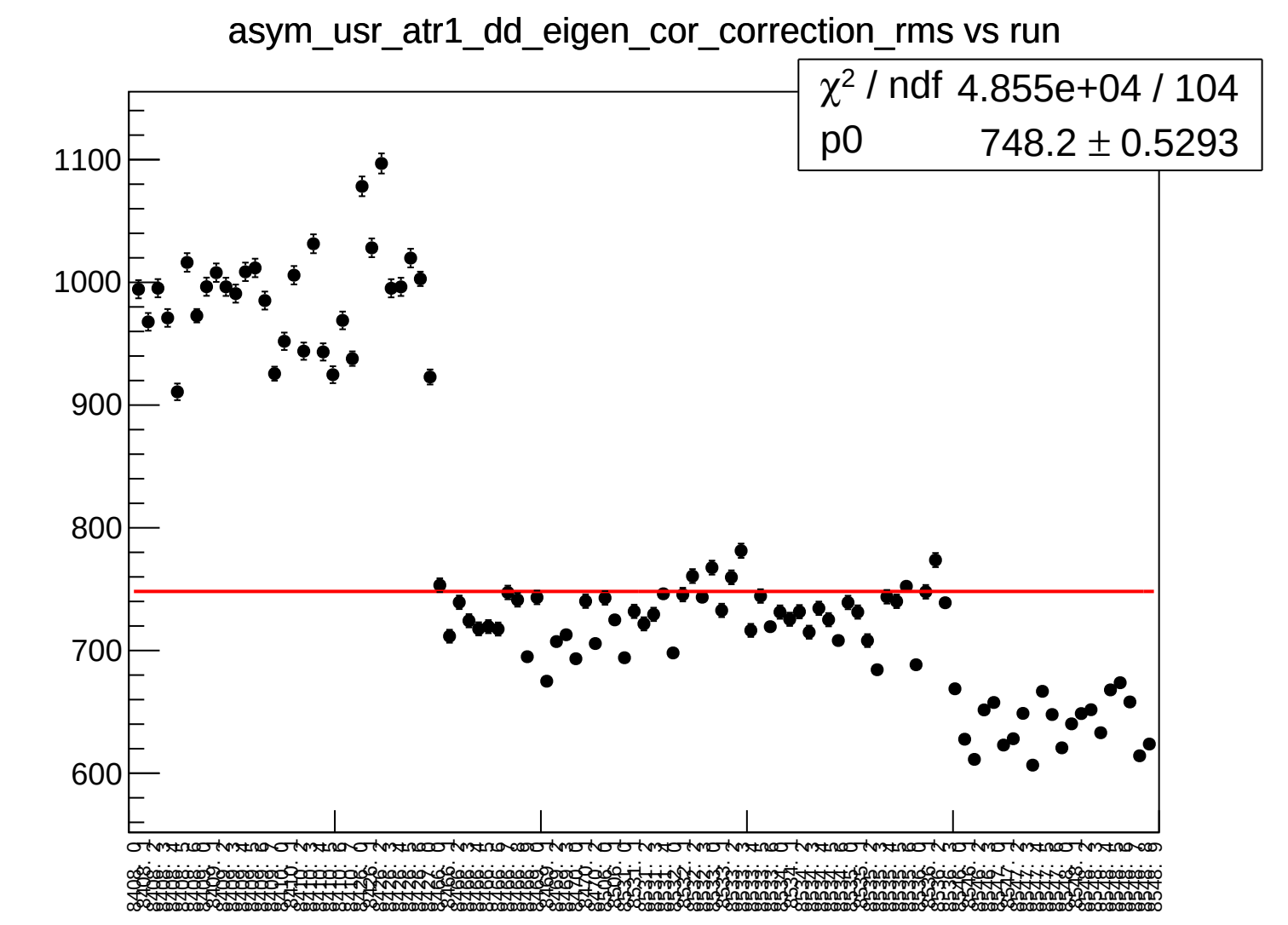
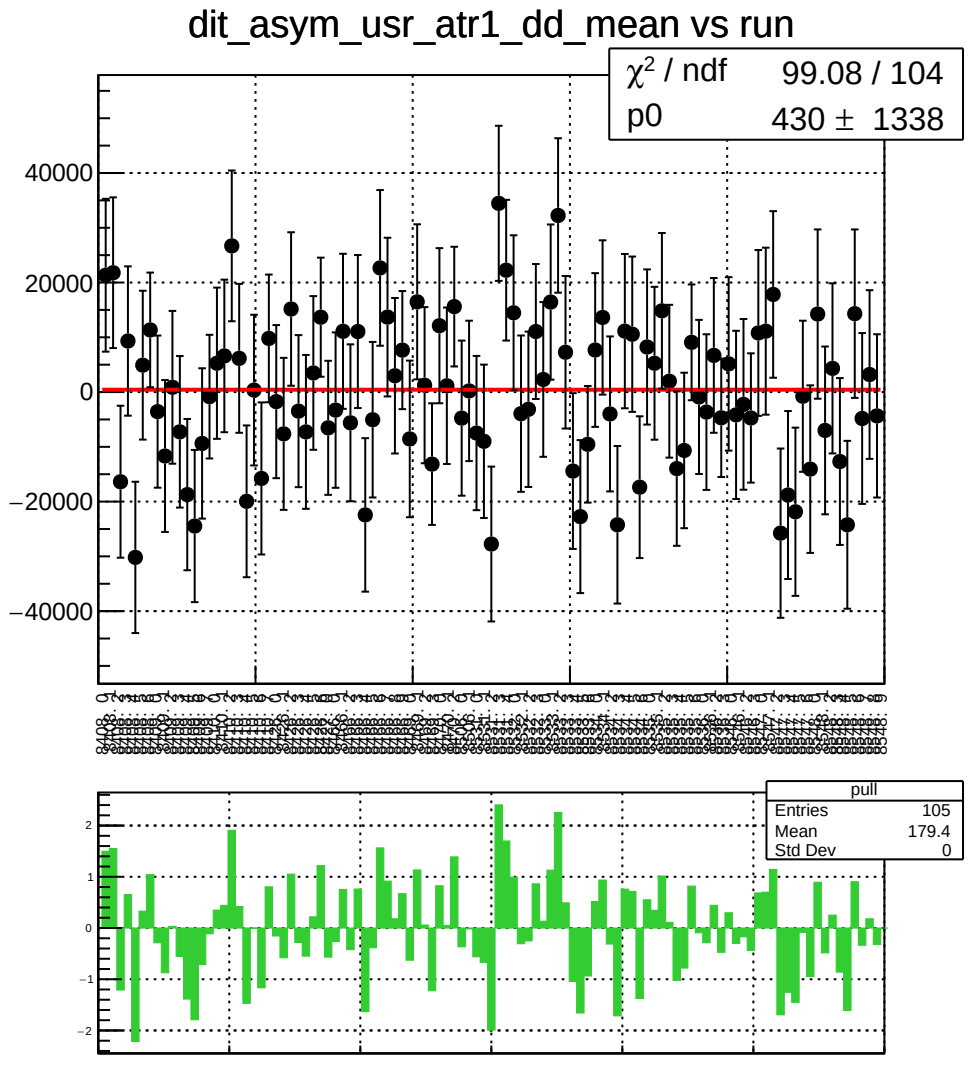
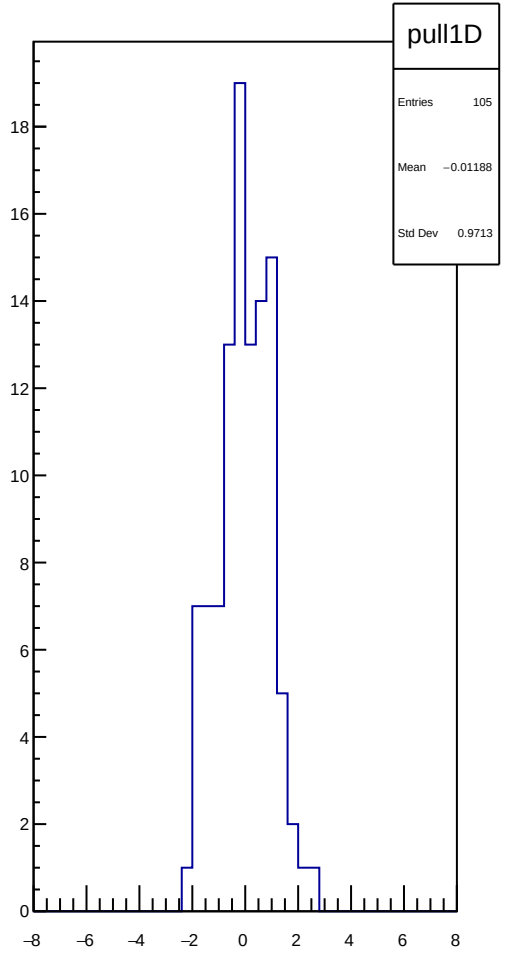
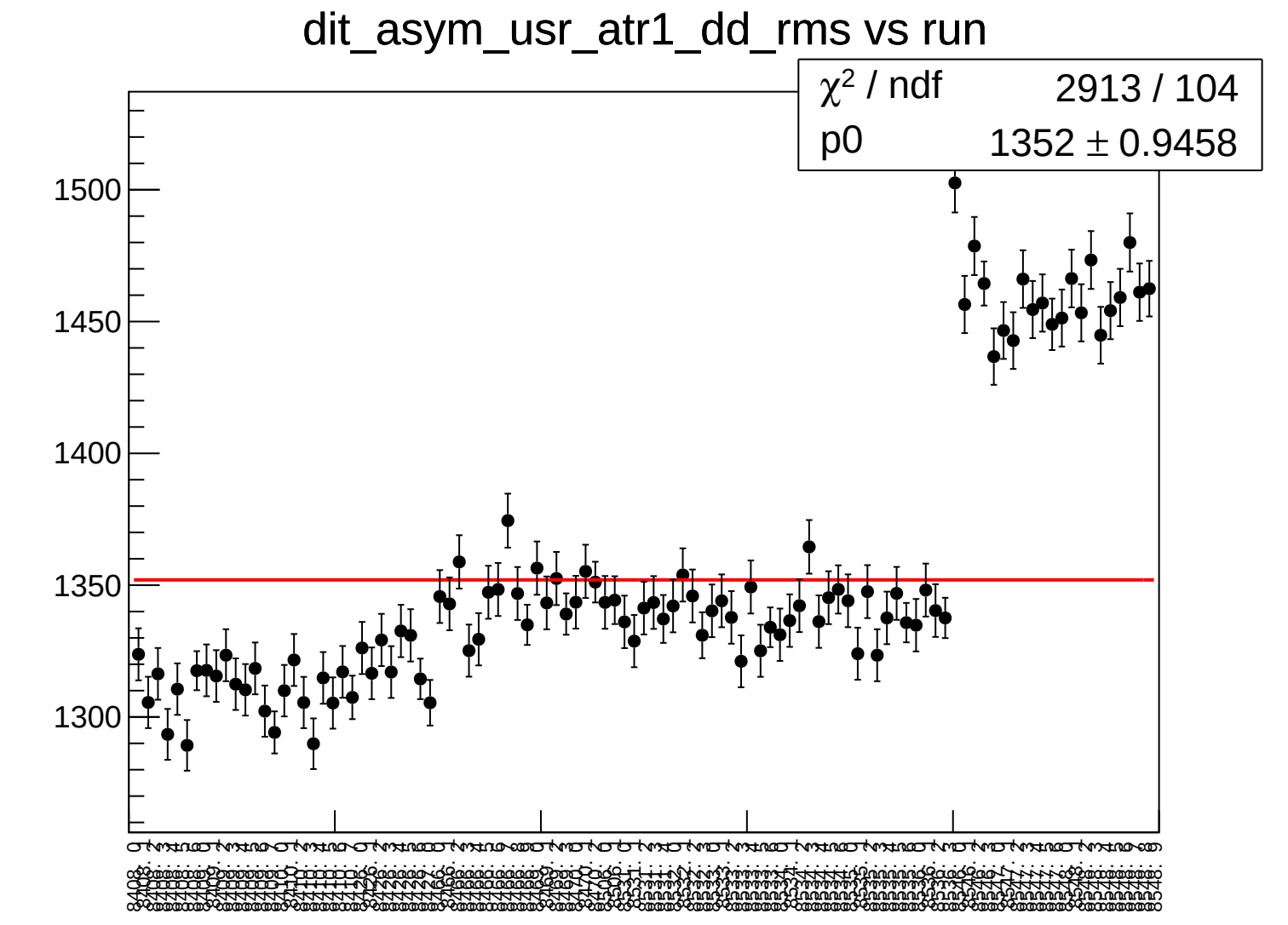
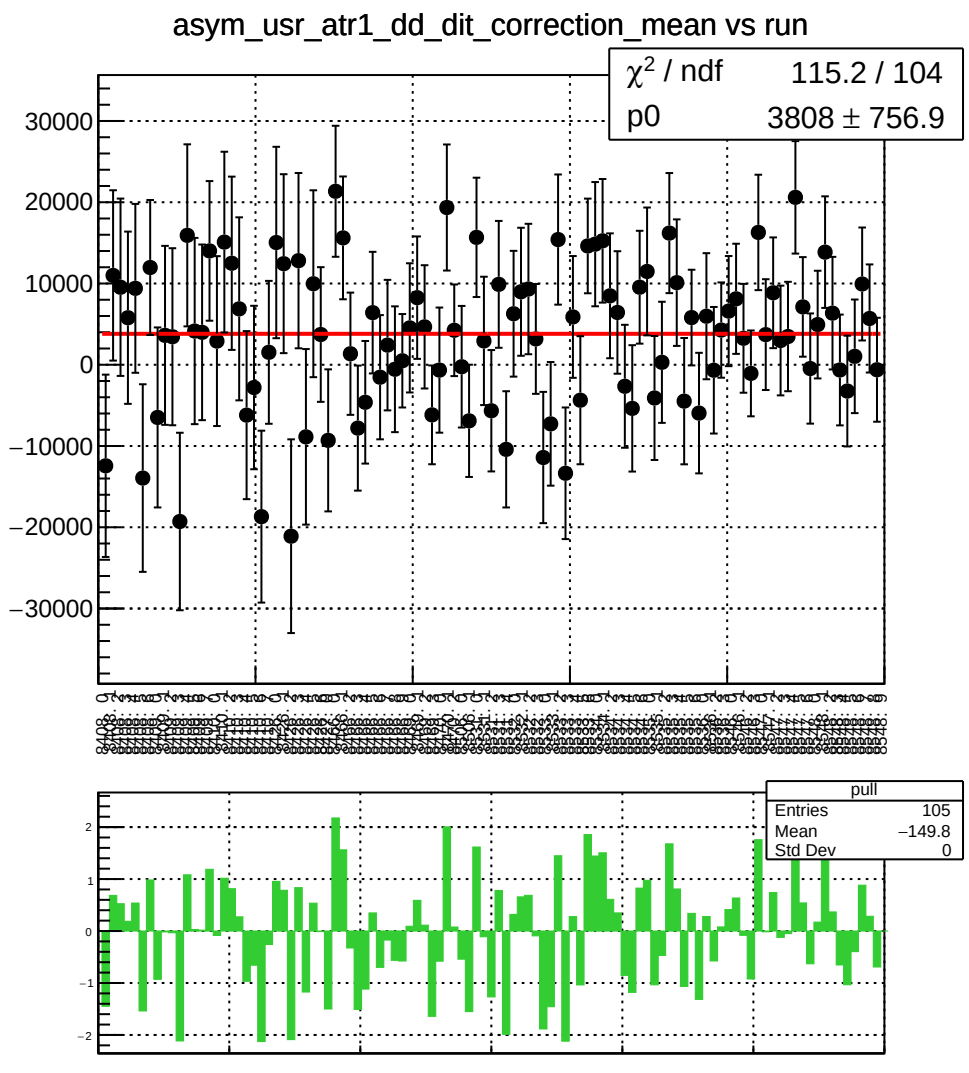
2
4
6
8

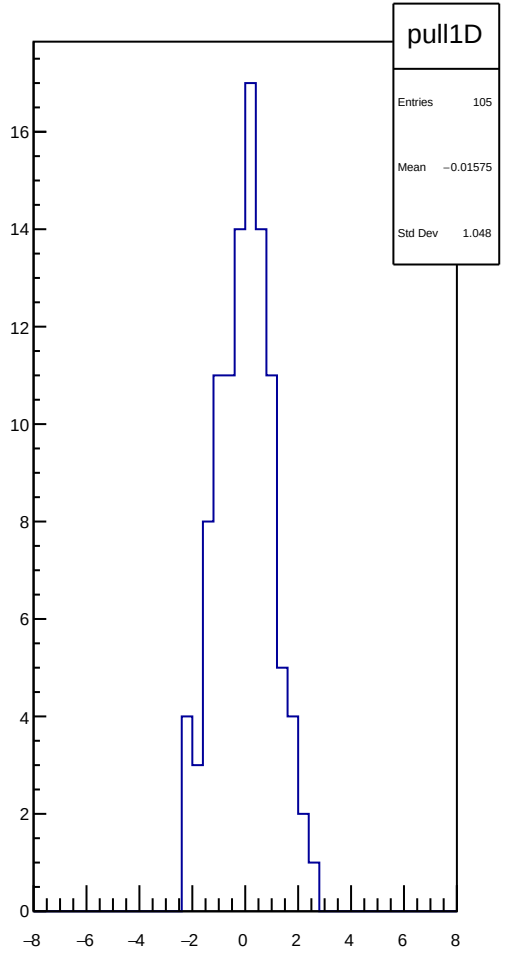

asym_usr_atr1_dd_eigen_cor_correction_rms vs run
χ² / ndf 4.855e+04 / 104
p0 748.2 ± 0.5293
1100
1000
900
800
700
600

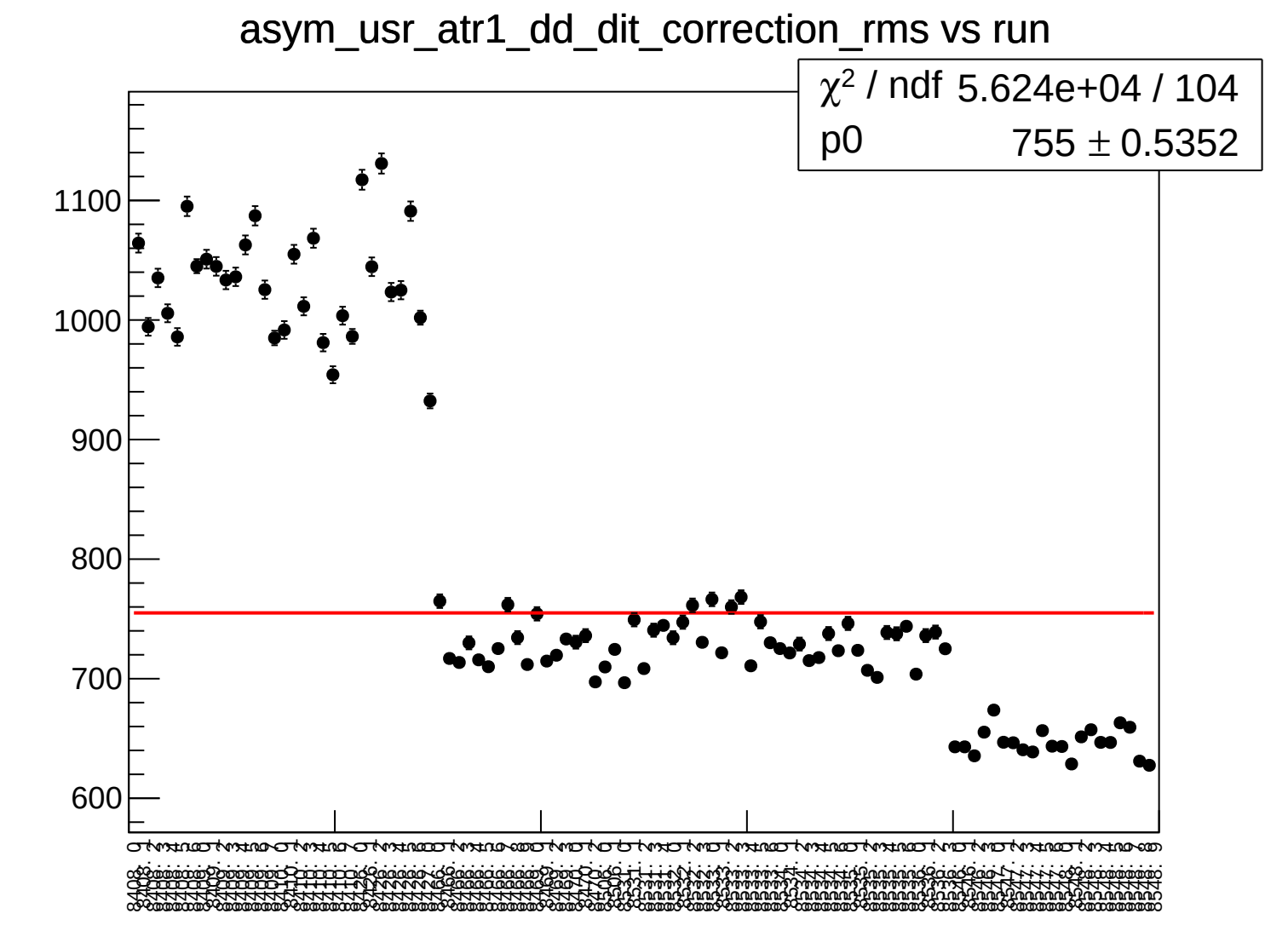

dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 99.08 / 104
p0 430 ± 1338
40000
20000
0
−20000
−40000
pull
Entries 105
Mean 179.4
Std Dev 0
2
1
0
−1
−2

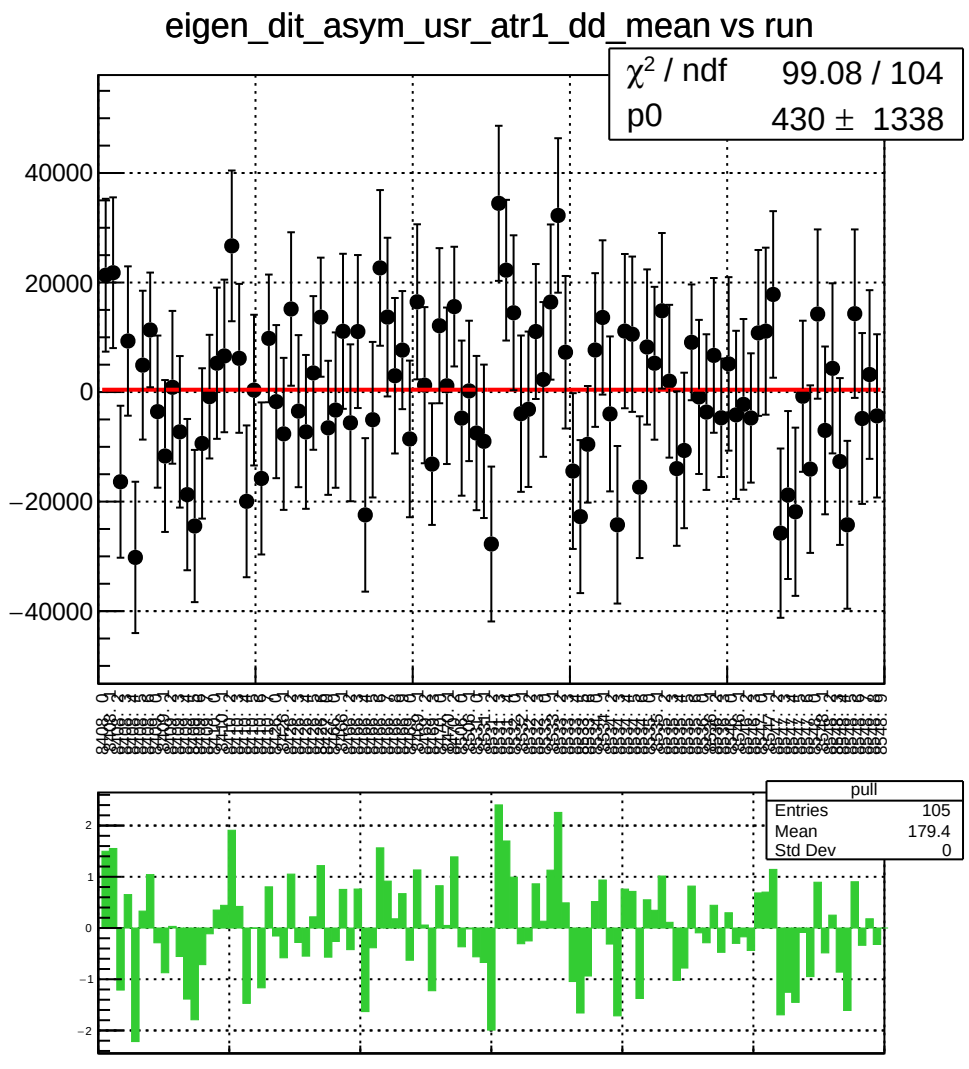

pull1D
Entries 105
Mean −0.01188
Std Dev 0.9713
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

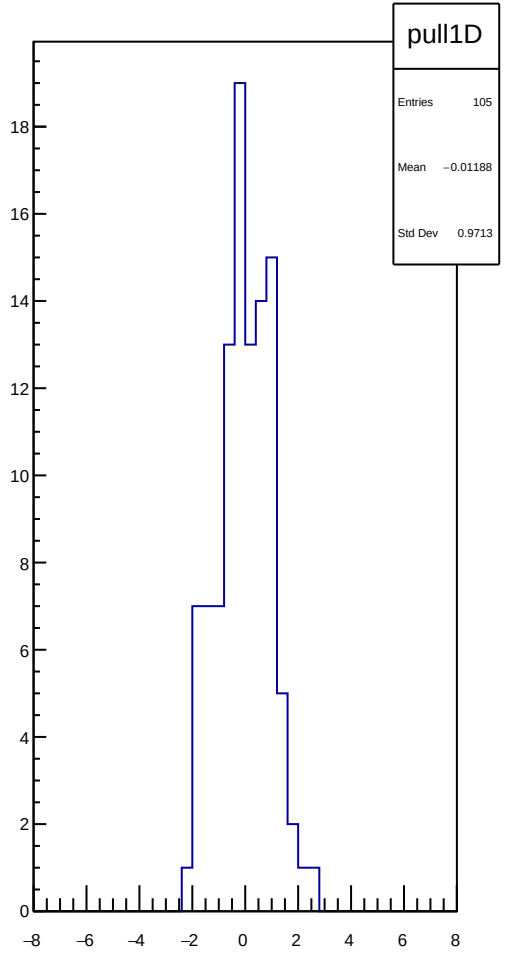

dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 2913 / 104
p0 1352 ± 0.9458
1500
1450
1400
1350
1300

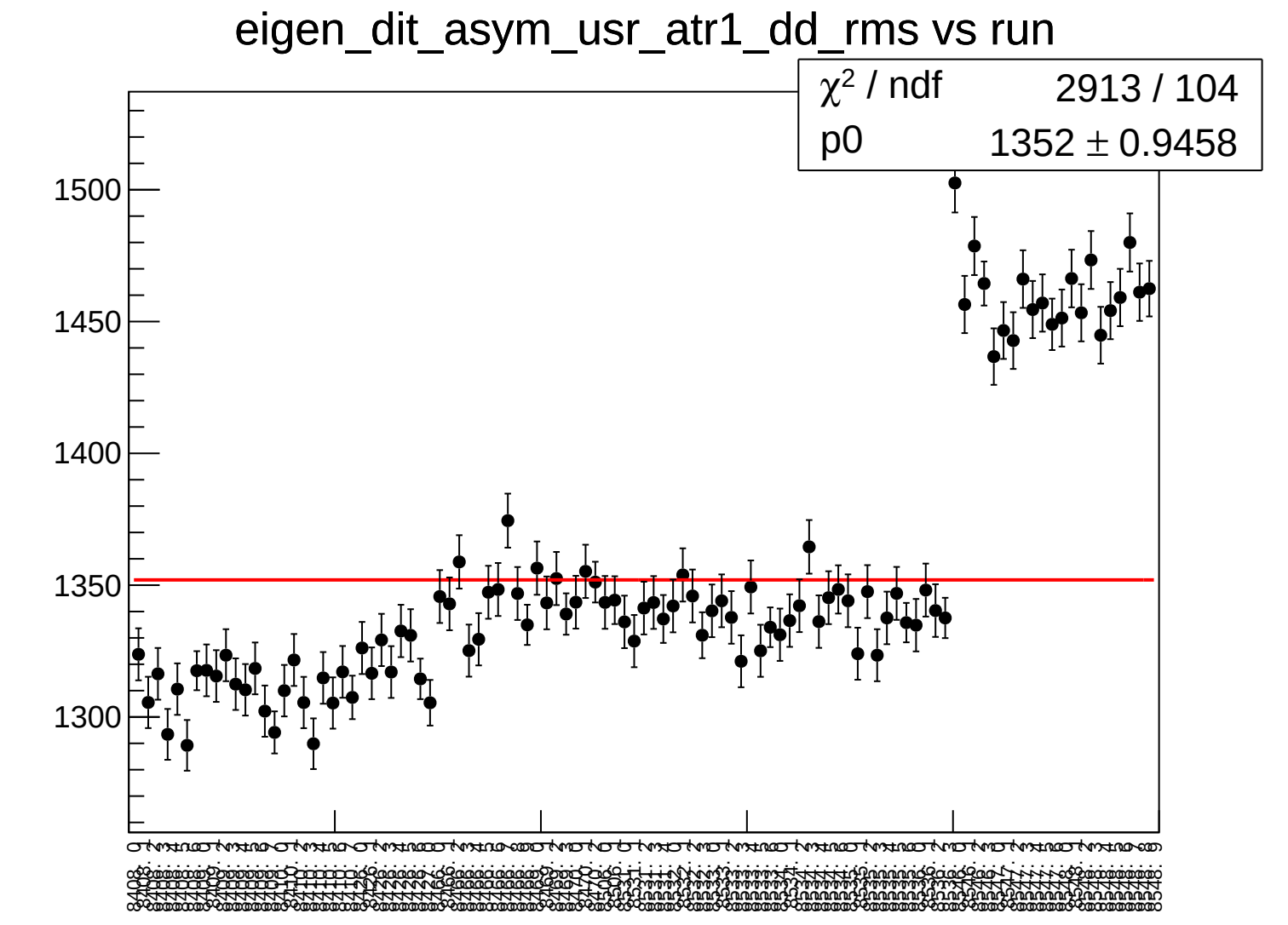

asym_usr_atr1_dd_dit_correction_mean vs run
χ² / ndf 115.2 / 104
p0 3808 ± 756.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 105
Mean −149.8
Std Dev 0
2
1
0
−1
−2

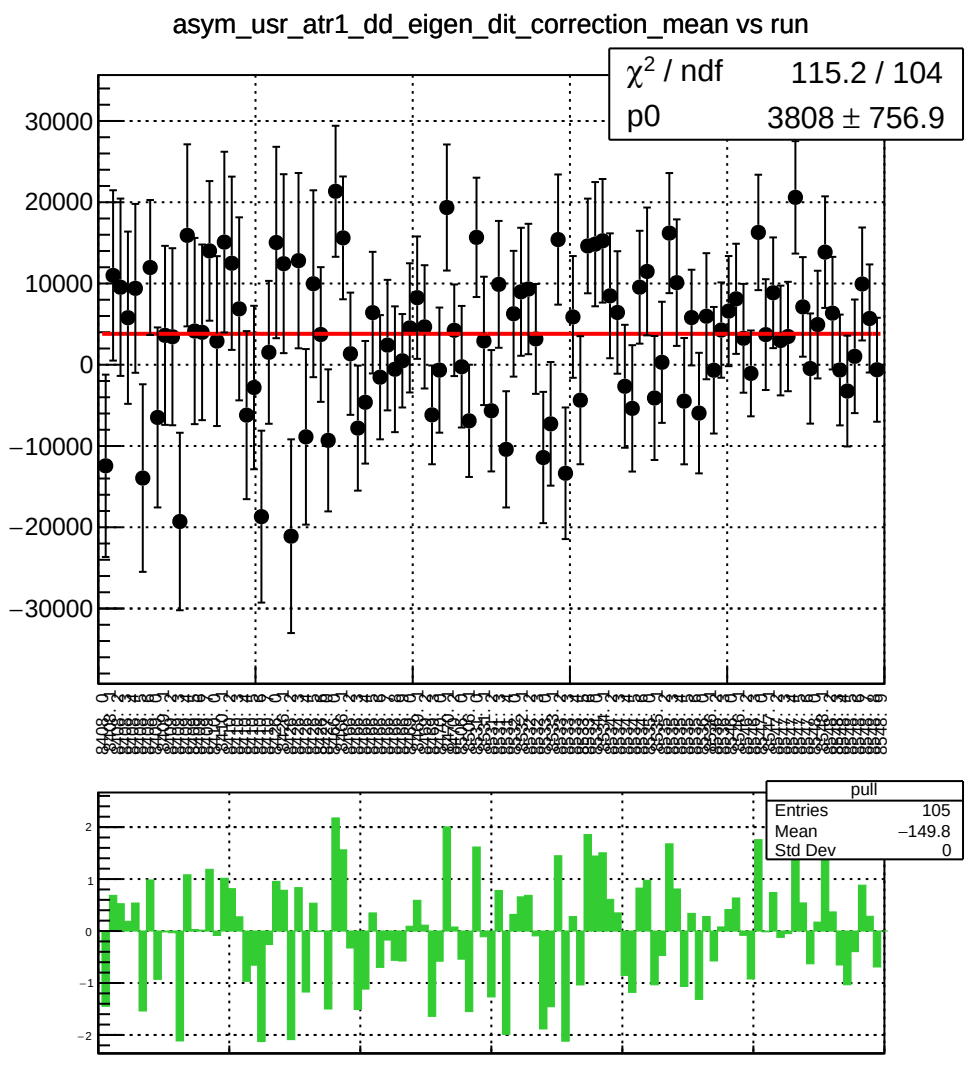

pull1D
Entries 105
Mean −0.01575
Std Dev 1.048
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

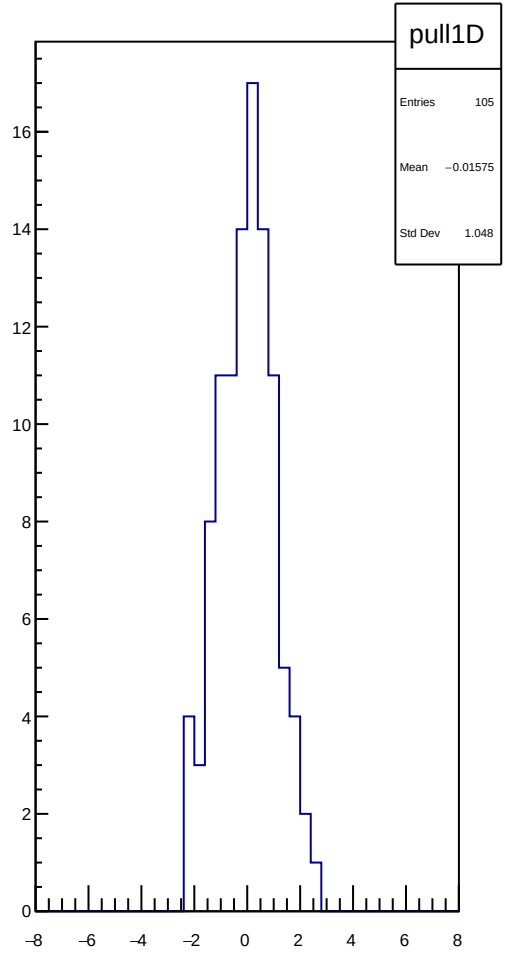

asym_usr_atr1_dd_dit_correction_rms vs run
χ² / ndf 5.624e+04 / 104
p0 755 ± 0.5352
1100
1000
900
800
700
600

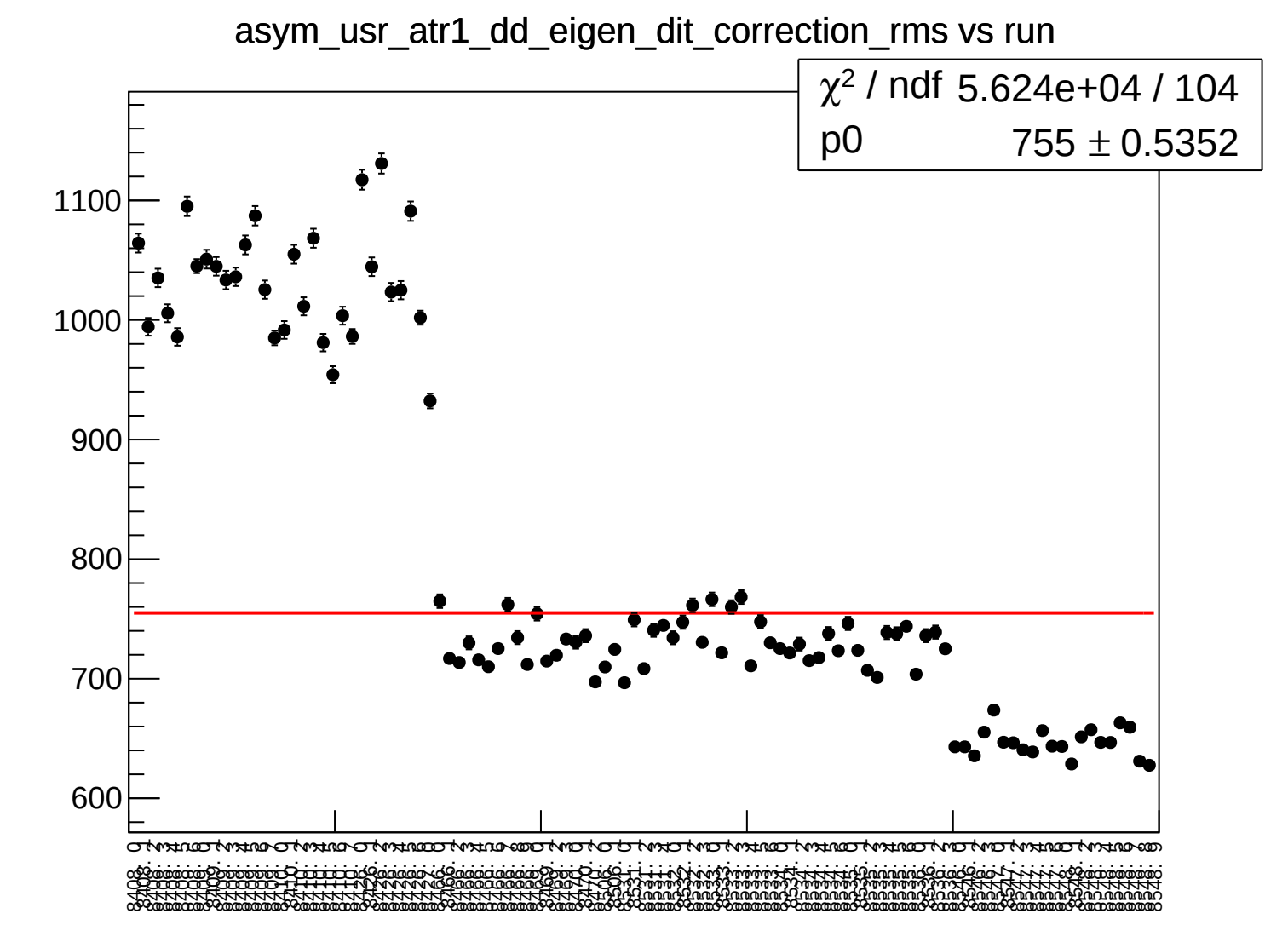

eigen_dit_asym_usr_atr1_dd_mean vs run
χ² / ndf 99.08 / 104
p0 430 ± 1338
40000
20000
0
−20000
−40000
pull
Entries 105
Mean 179.4
Std Dev 0
2
1
0
−1
−2

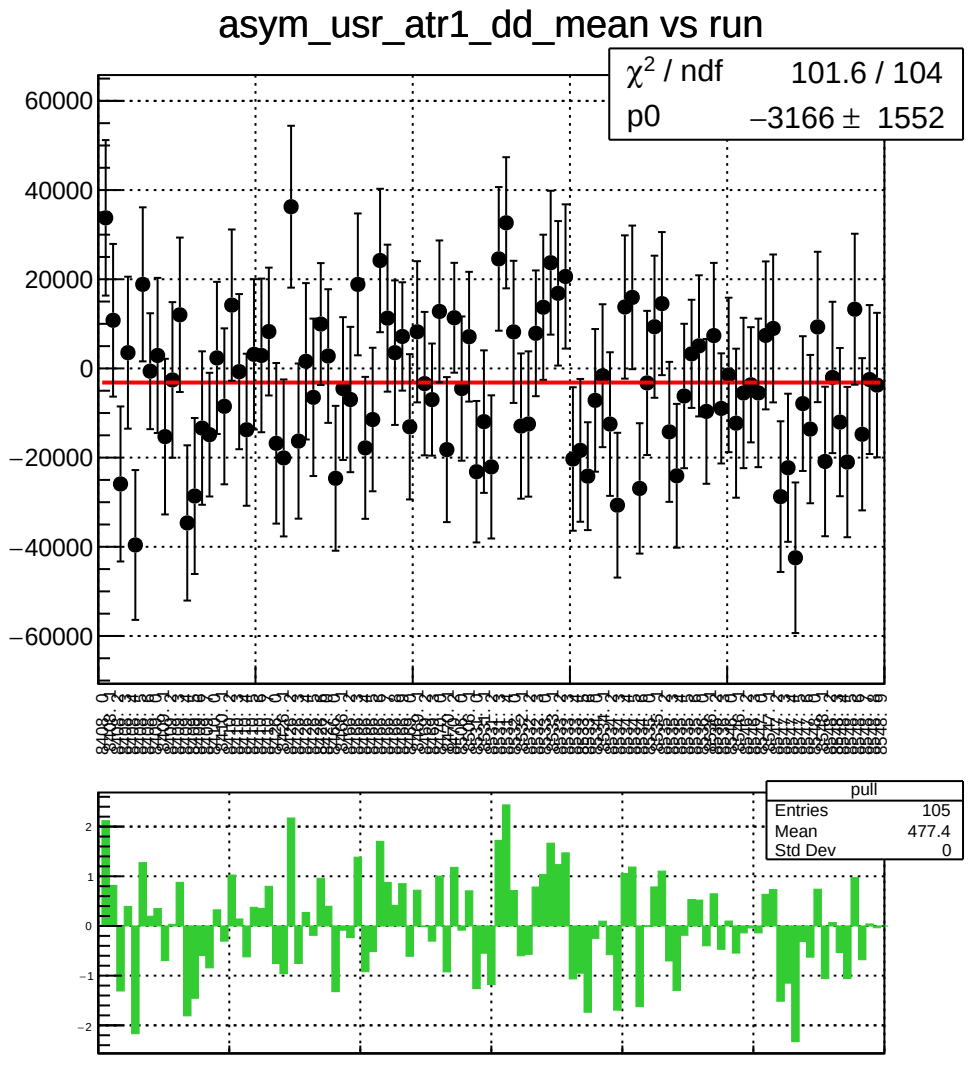

pull1D
Entries 105
Mean −0.01188
Std Dev 0.9713
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

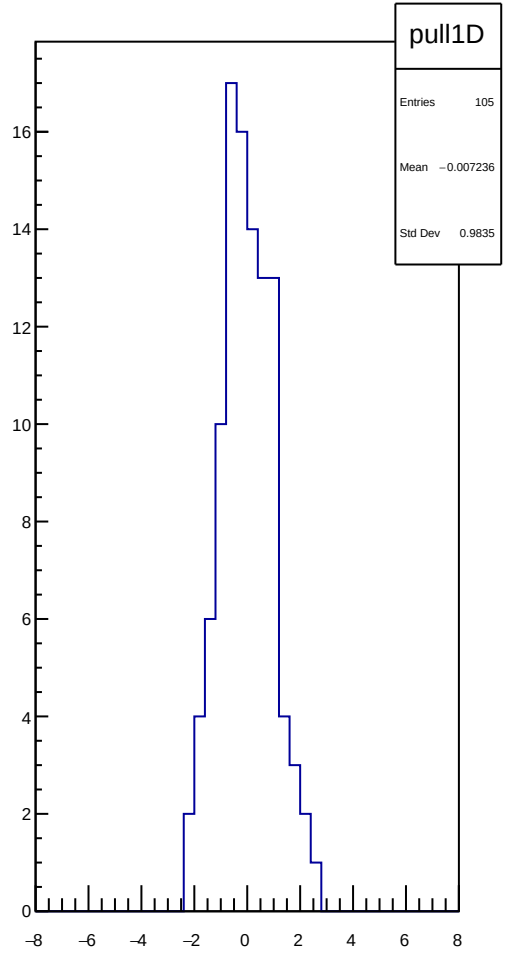

eigen_dit_asym_usr_atr1_dd_rms vs run
χ² / ndf 2913 / 104
p0 1352 ± 0.9458
1500
1450
1400
1350
1300

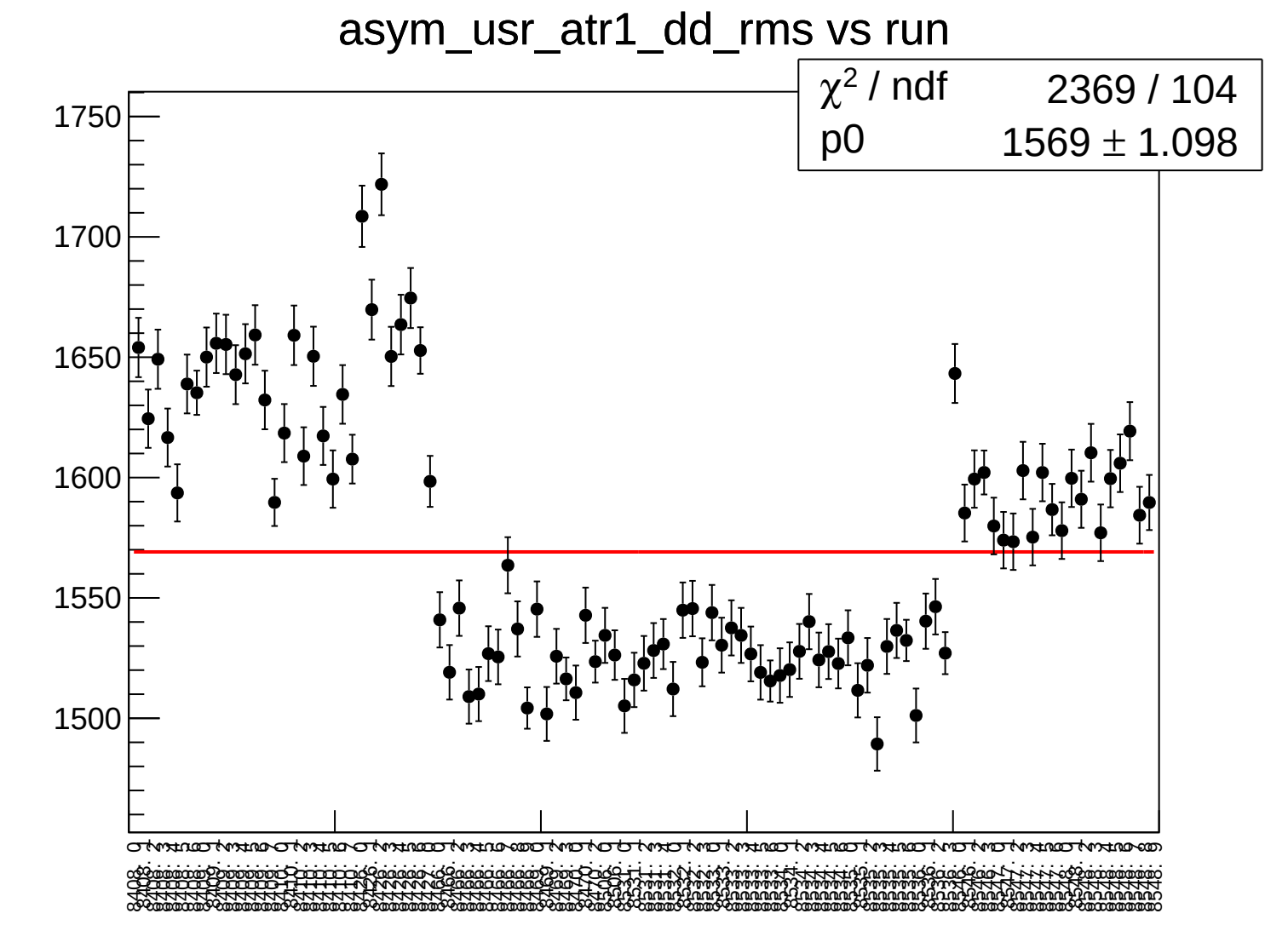

asym_usr_atr1_dd_eigen_dit_correction_mean vs run
χ² / ndf 115.2 / 104
p0 3808 ± 756.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 105
Mean −149.8
Std Dev 0
2
1
0
−1
−2

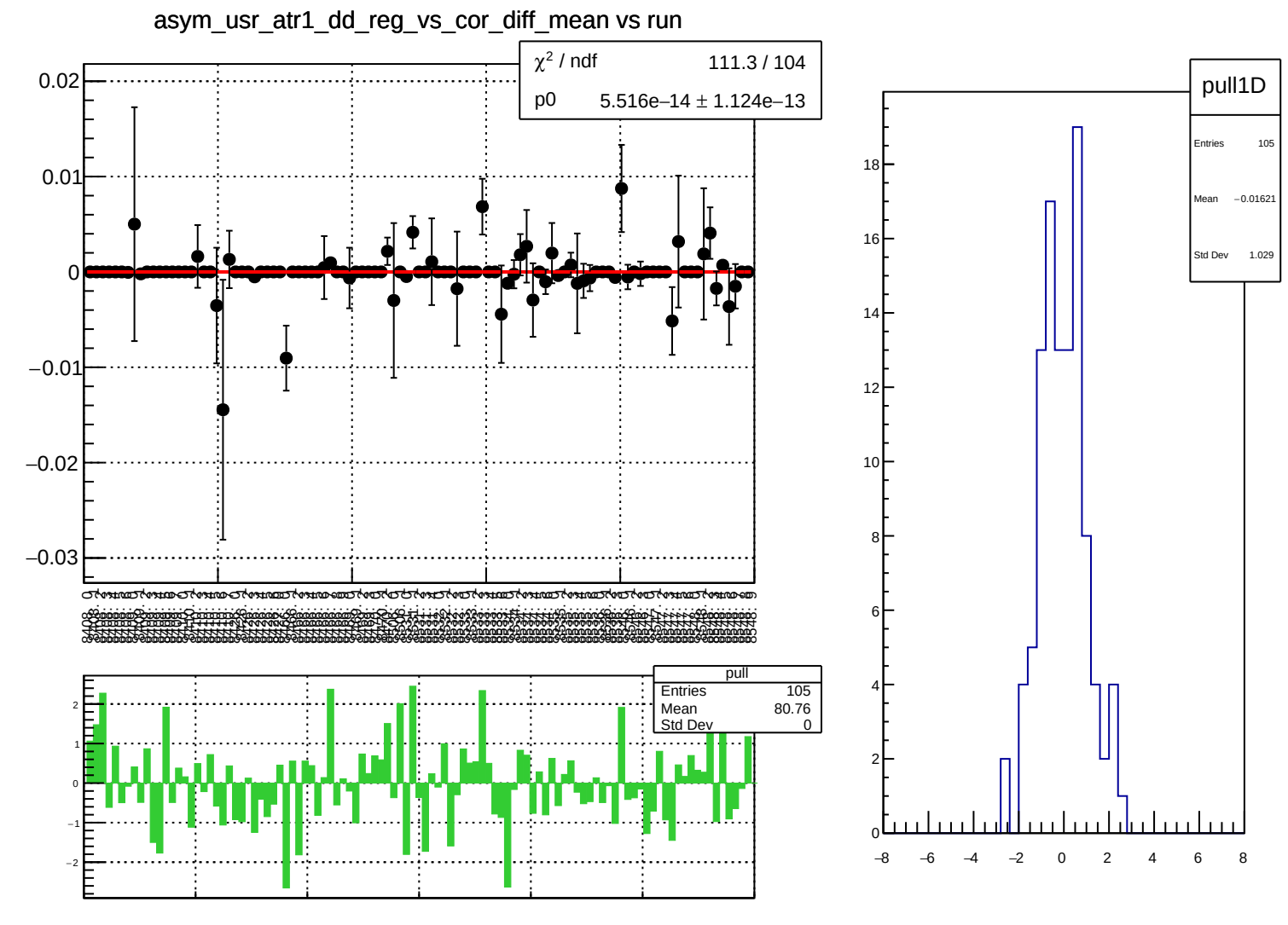

pull1D
Entries 105
Mean −0.01575
Std Dev 1.048
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

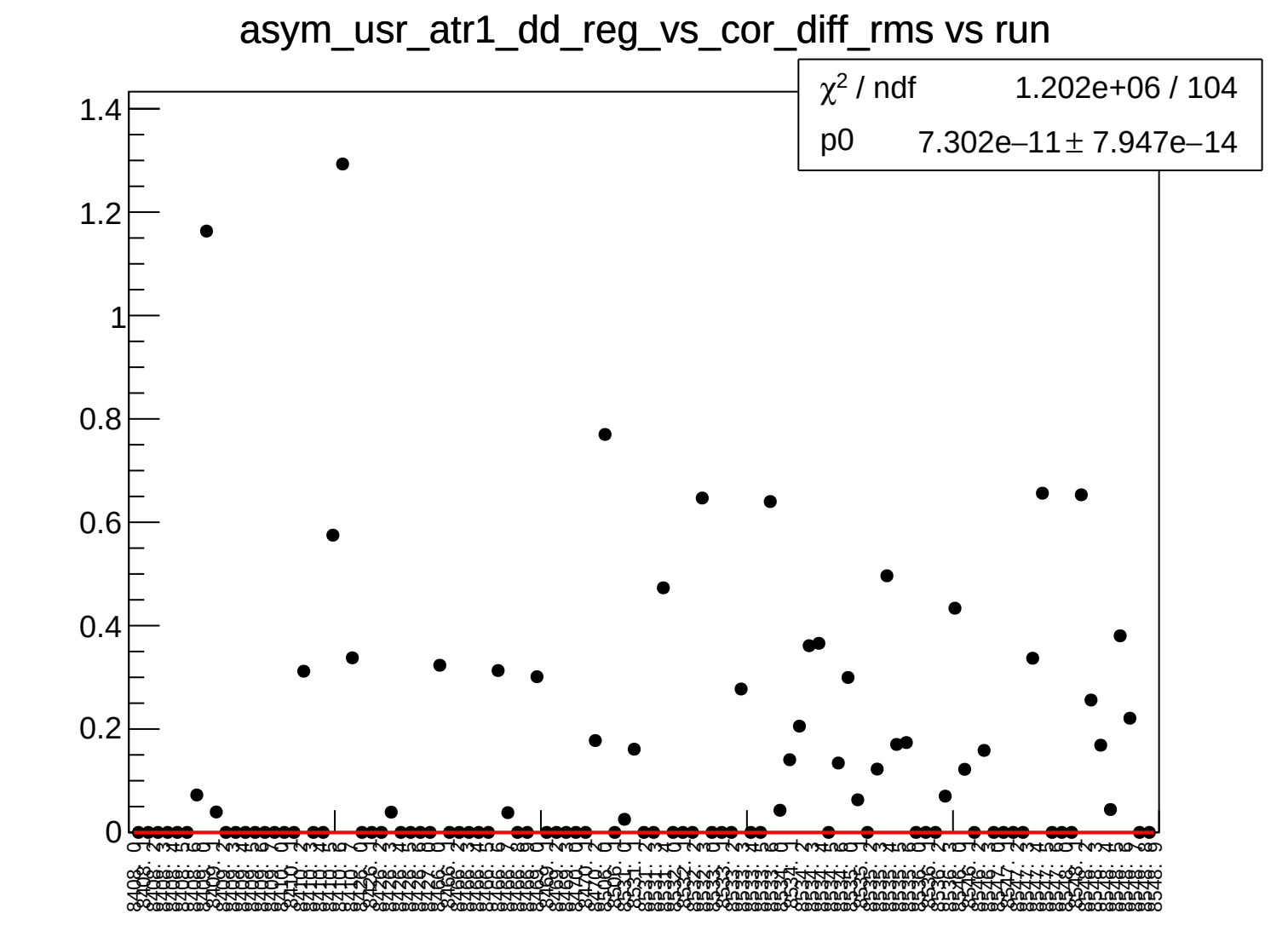

asym_usr_atr1_dd_eigen_dit_correction_rms vs run
χ² / ndf 5.624e+04 / 104
p0 755 ± 0.5352
1100
1000
900
800
700
600

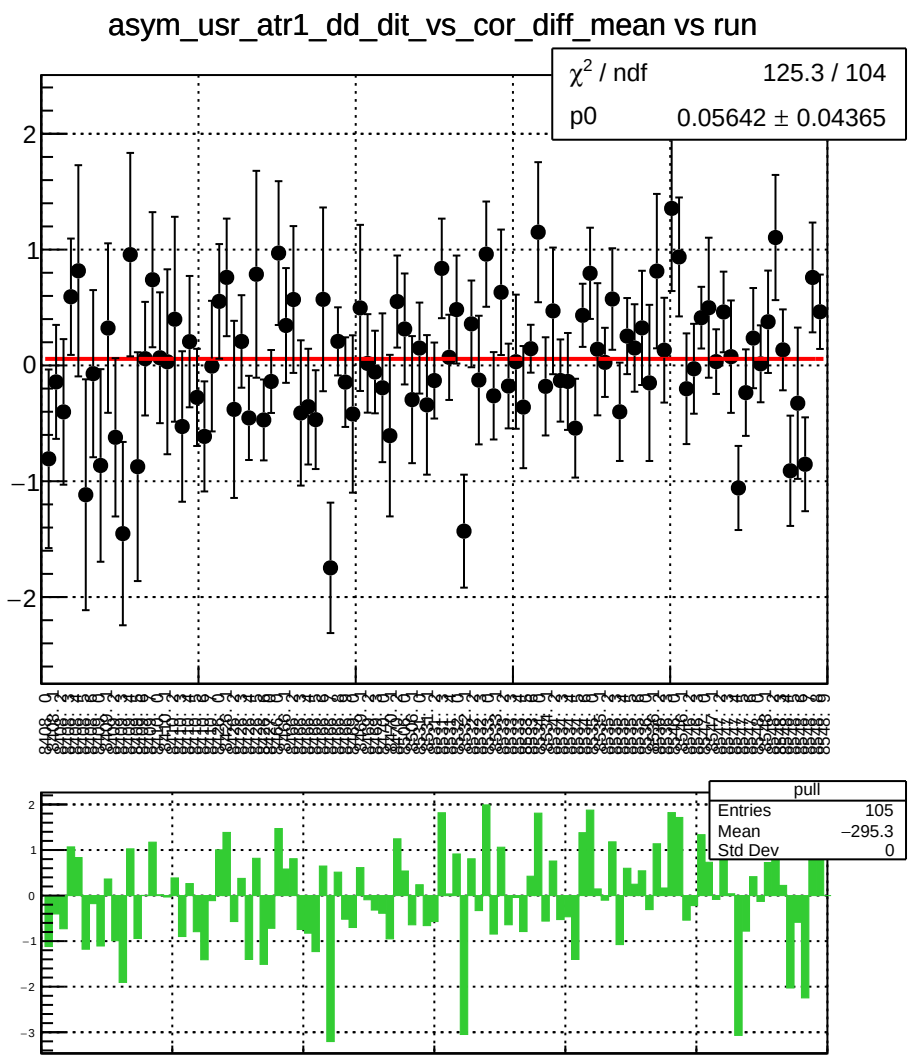

asym_usr_atr1_dd_mean vs run
χ² / ndf 101.6 / 104
p0 −3166 ± 1552
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean 477.4
Std Dev 0
2
1
0
−1
−2

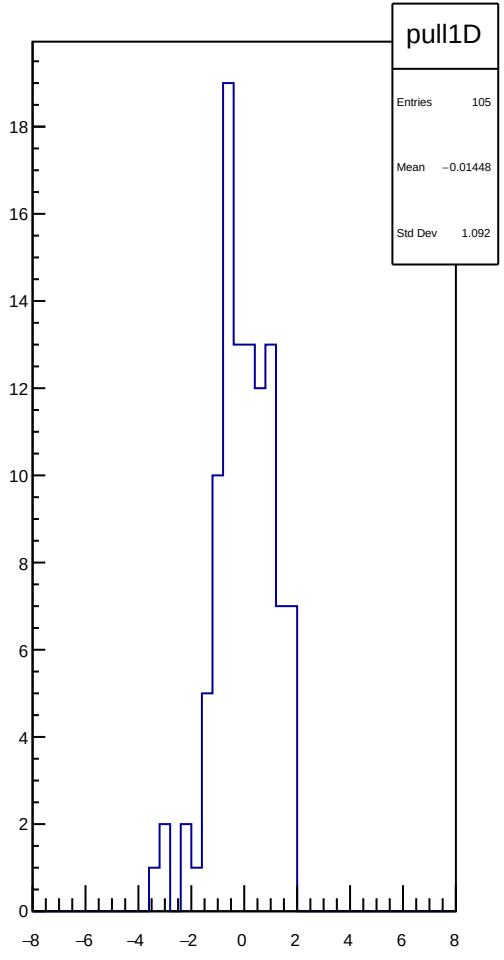

pull1D
Entries 105
Mean −0.007236
Std Dev 0.9835
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

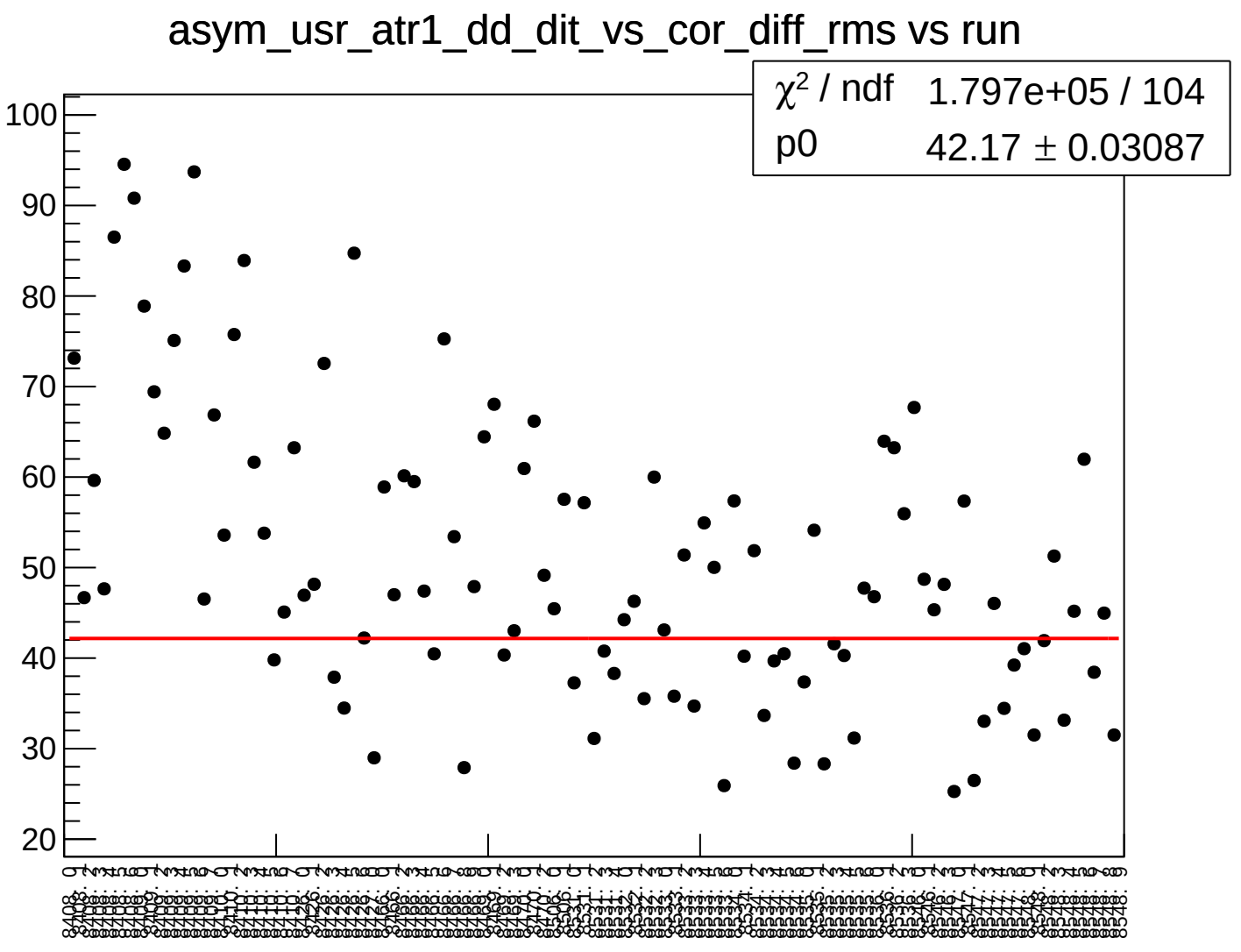

asym_usr_atr1_dd_rms vs run
χ² / ndf 2369 / 104
p0 1569 ± 1.098
1750
1700
1650
1600
1550
1500

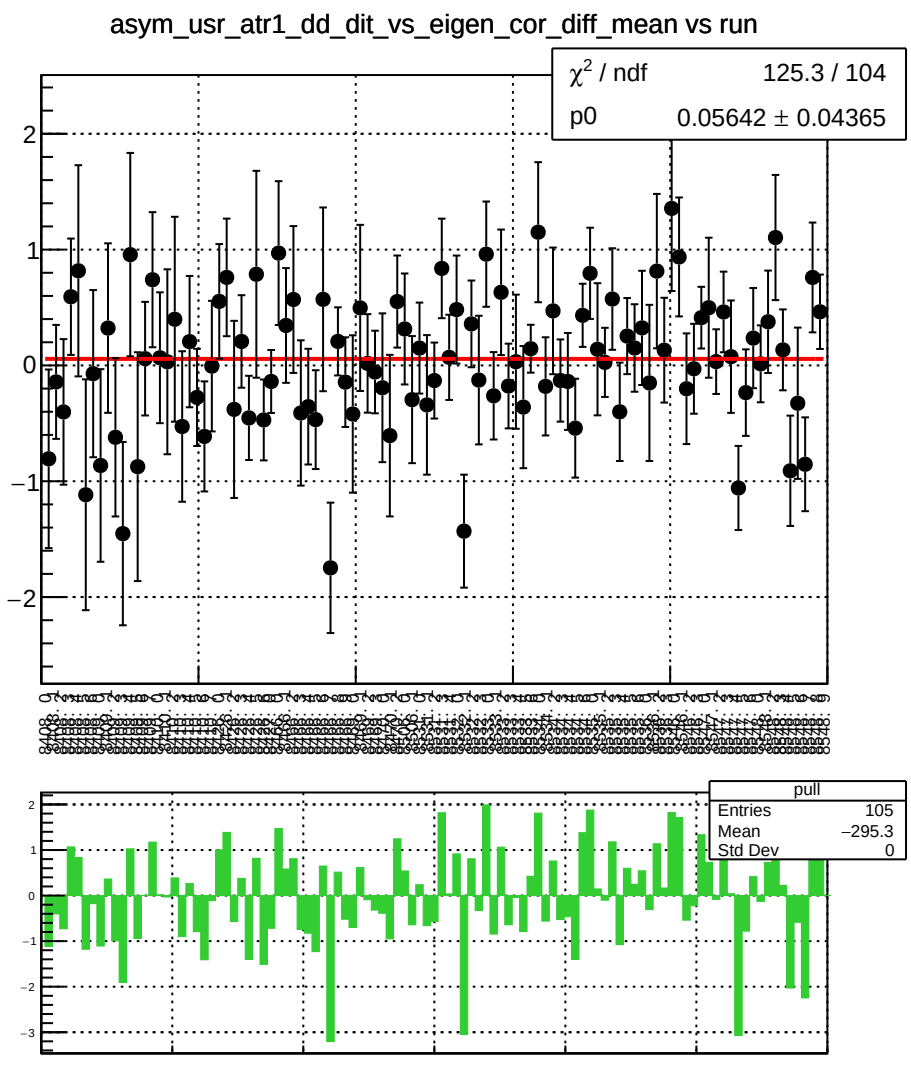

asym_usr_atr1_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 111.3 / 104
p0 5.516e−14 ± 1.124e−13
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 105
Mean 80.76
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.01621
Std Dev 1.029
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

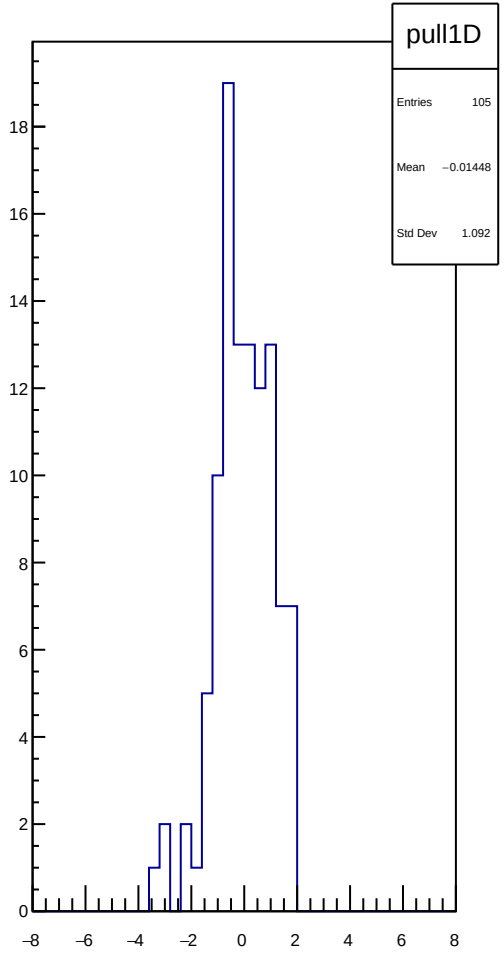

asym_usr_atr1_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.202e+06 / 104
p0 7.302e−11 ± 7.947e−14
1.4
1.2
1
0.8
0.6
0.4
0.2
0

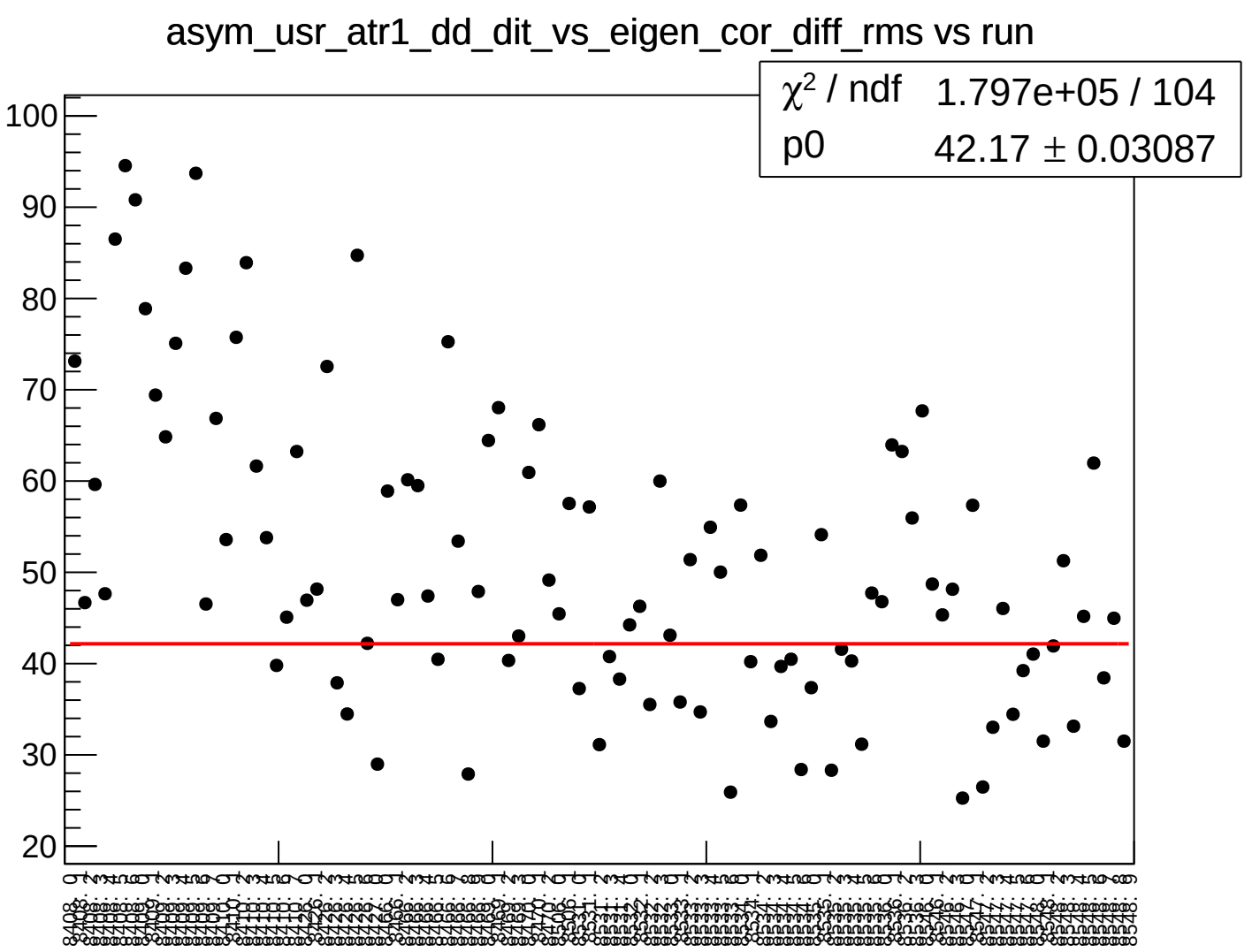

asym_usr_atr1_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 125.3 / 104
p0 0.05642 ± 0.04365
pull
Entries 105
Mean −295.3
Std Dev 0

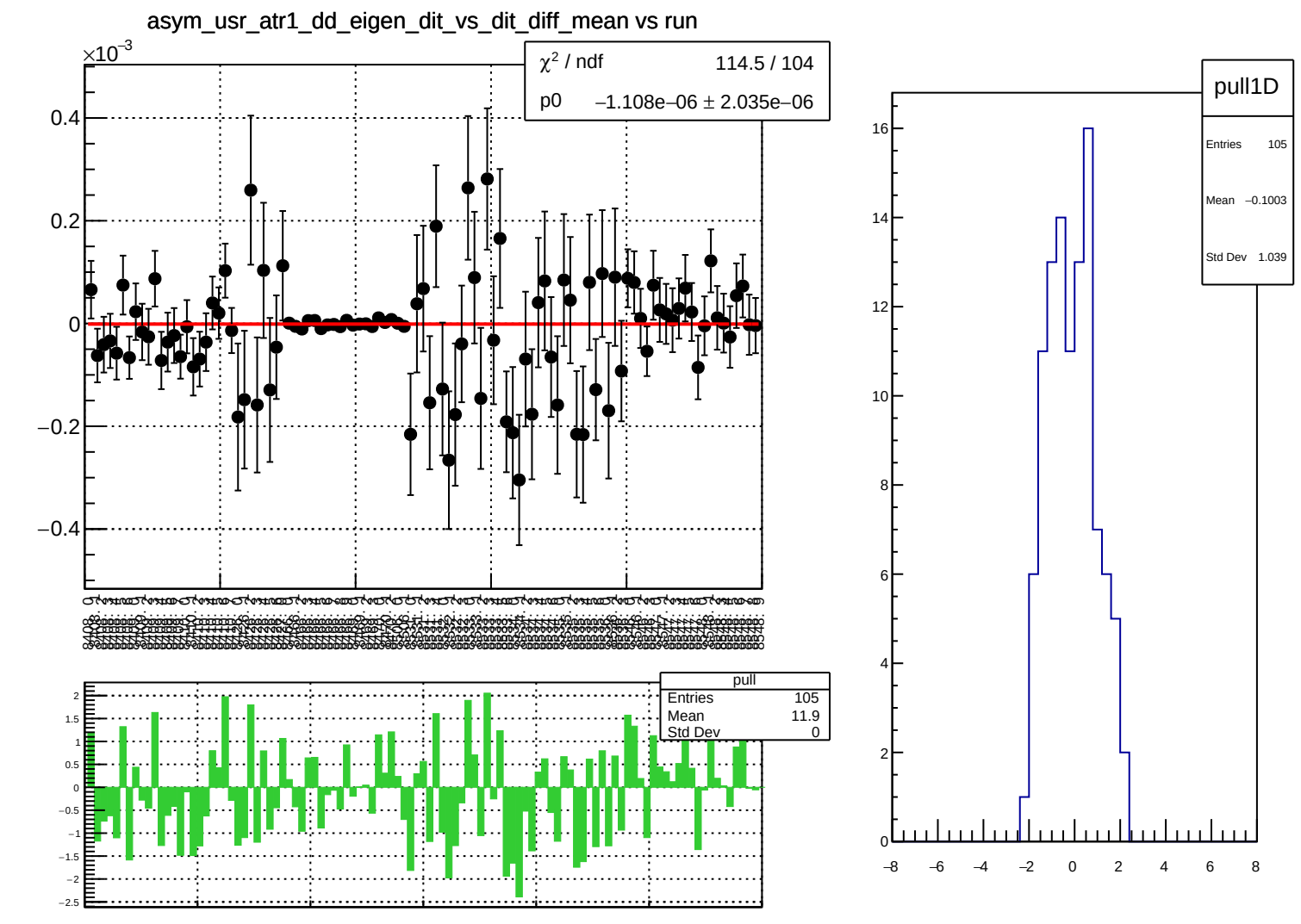

pull1D
Entries 105
Mean −0.01448
Std Dev 1.092

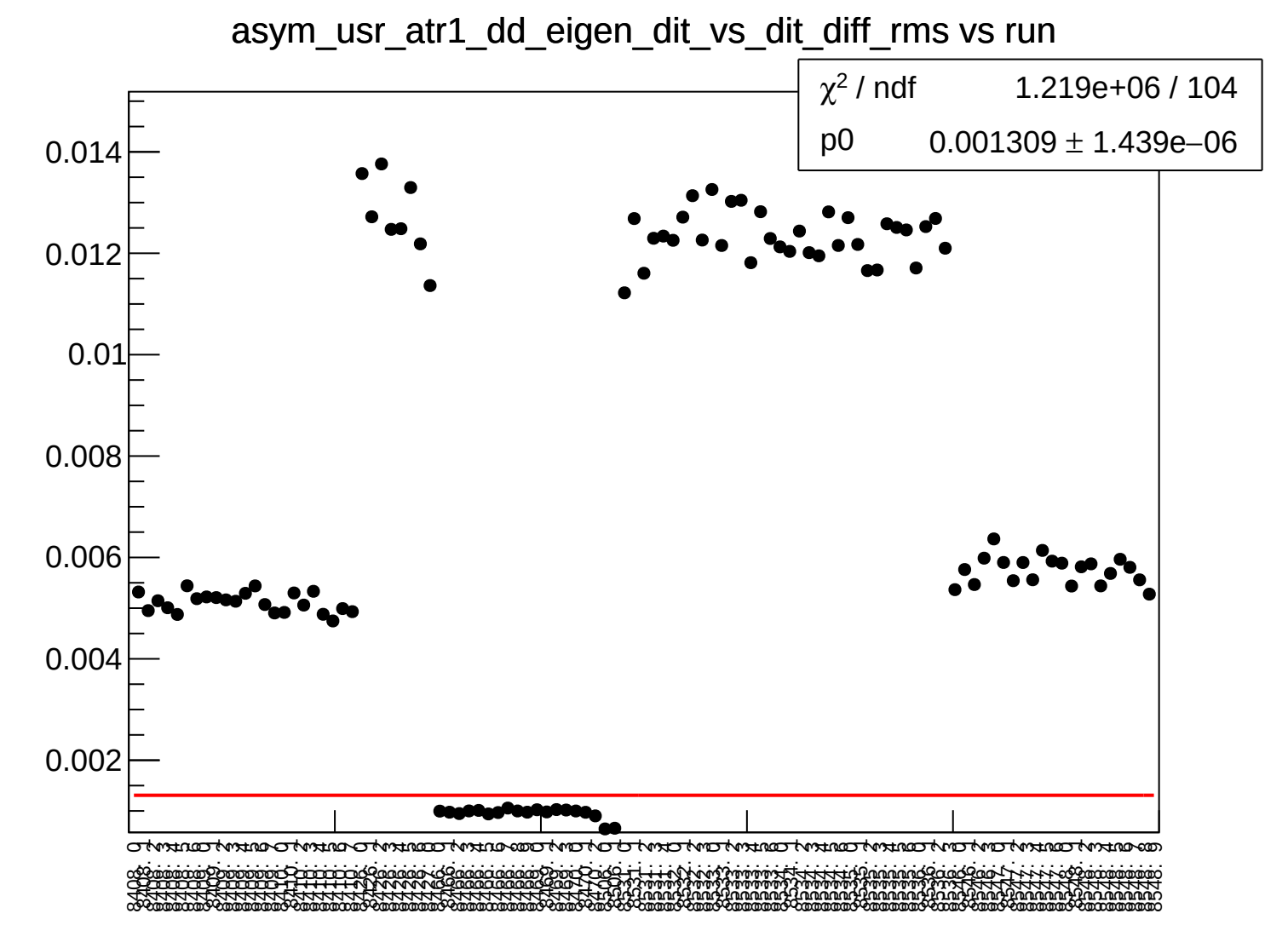

asym_usr_atr1_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.797e+05 / 104
p0 42.17 ± 0.03087
100
90
80
70
60
50
40
30
20

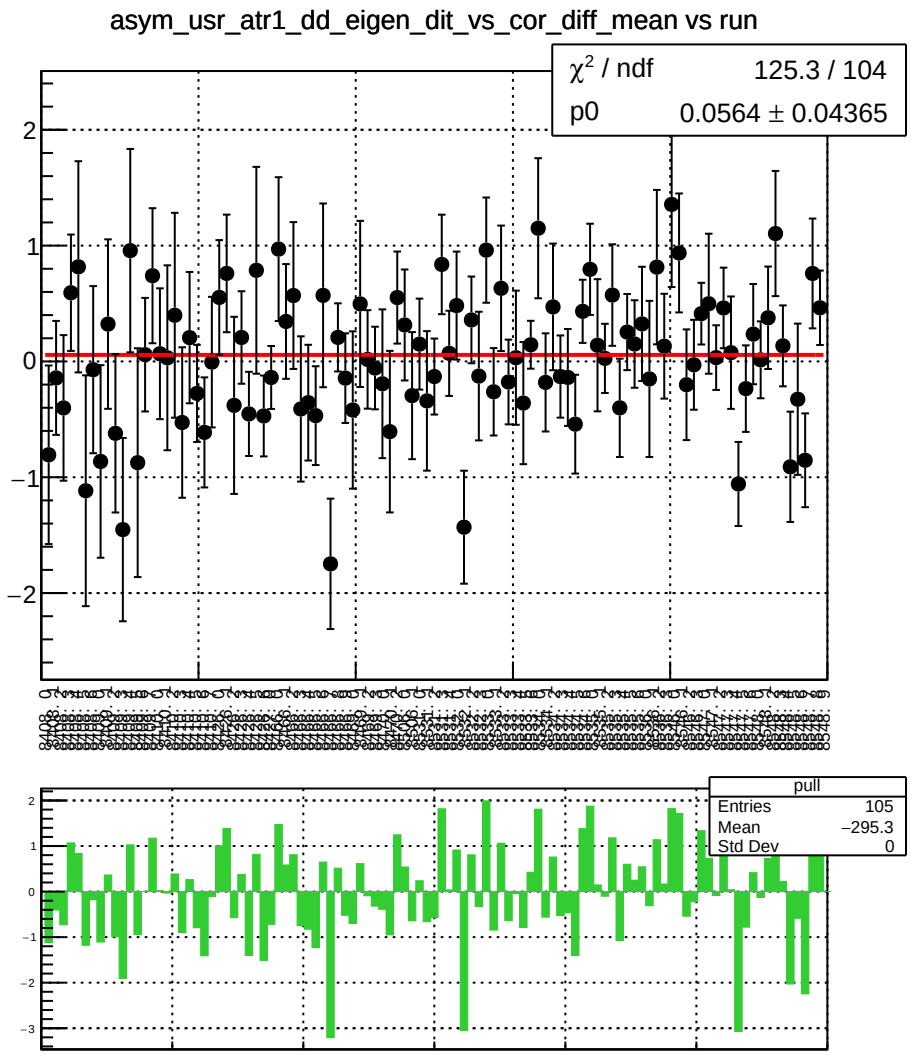

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 125.3 / 104
p0 0.05642 ± 0.04365
pull
Entries 105
Mean −295.3
Std Dev 0

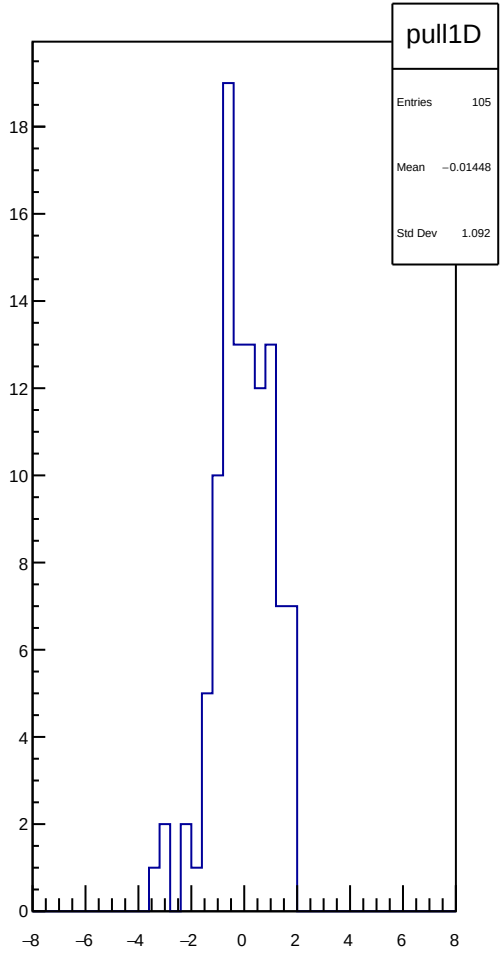

pull1D
Entries 105
Mean −0.01448
Std Dev 1.092

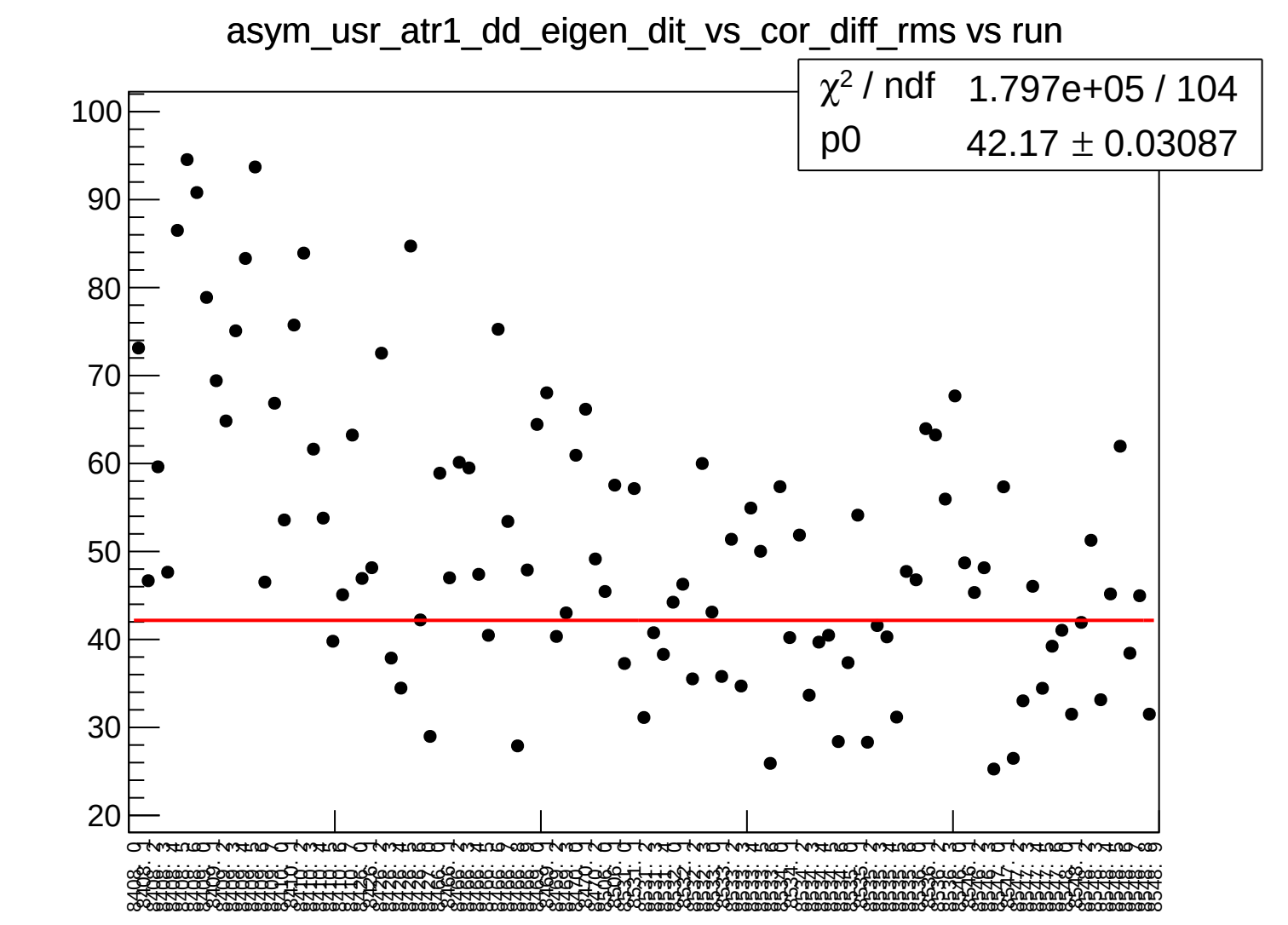

asym_usr_atr1_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.797e+05 / 104
p0 42.17 ± 0.03087
100
90
80
70
60
50
40
30
20

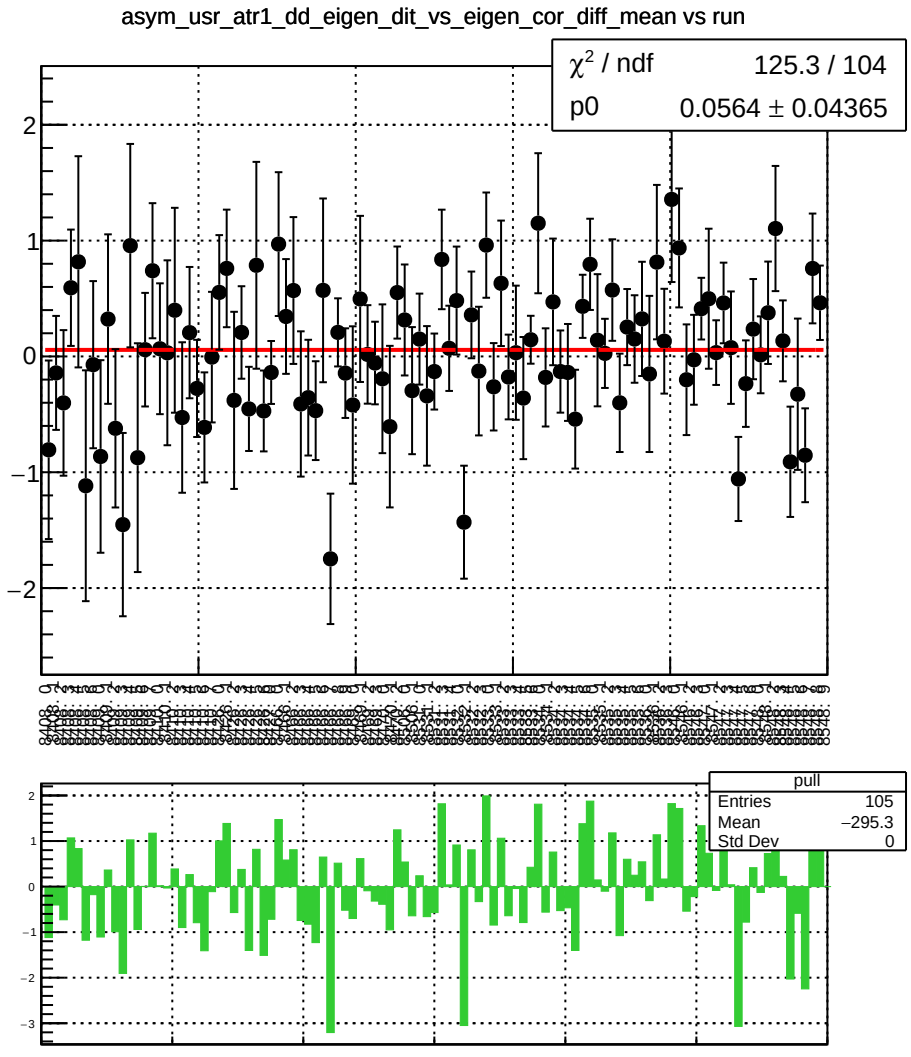

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 114.5 / 104
p0 −1.108e−06 ± 2.035e−06
0.4
0.2
0
−0.2
−0.4
pull
Entries 105
Mean 11.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 105
Mean −0.1003
Std Dev 1.039
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

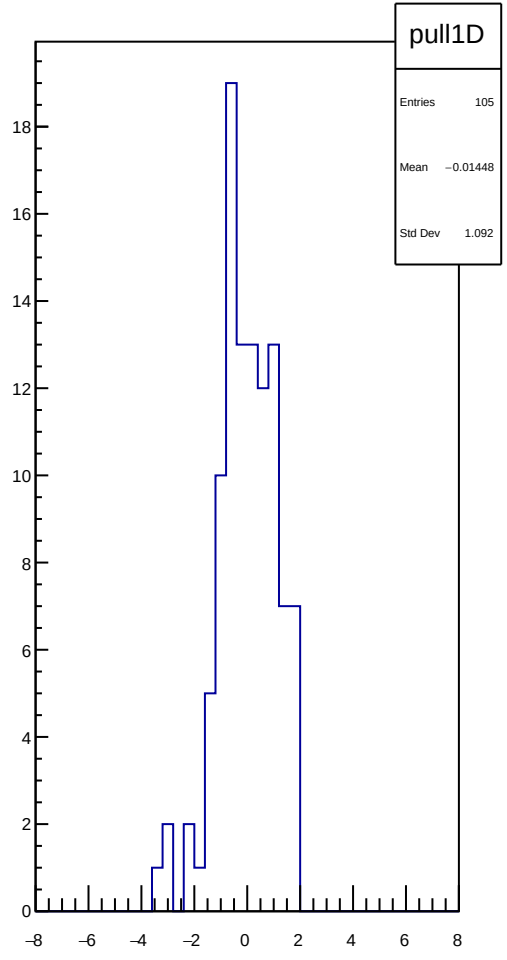

asym_usr_atr1_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.219e+06 / 104
p0 0.001309 ± 1.439e−06
0.014
0.012
0.01
0.008
0.006
0.004
0.002

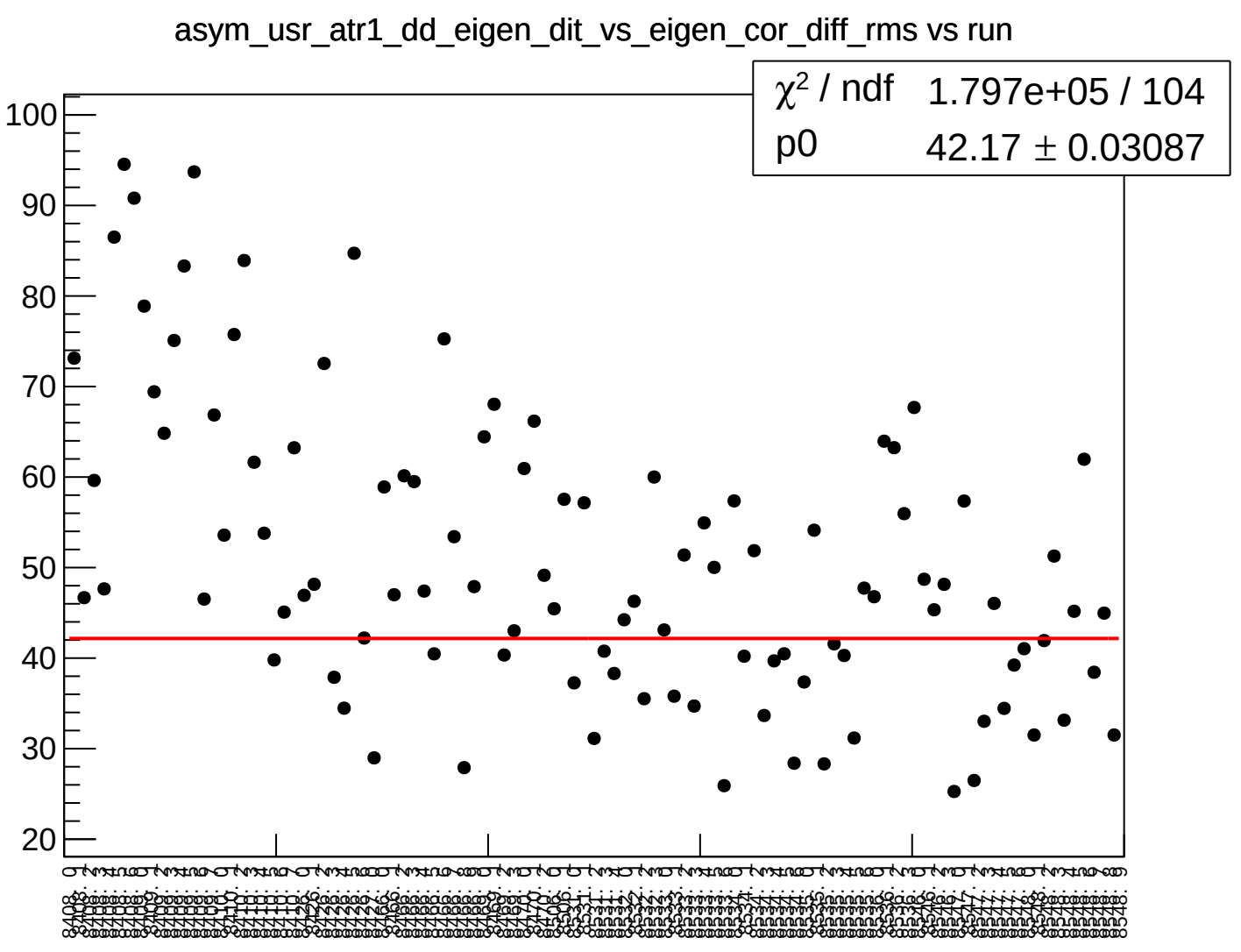

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 125.3 / 104
p0 0.0564 ± 0.04365
pull
Entries 105
Mean −295.3
Std Dev 0

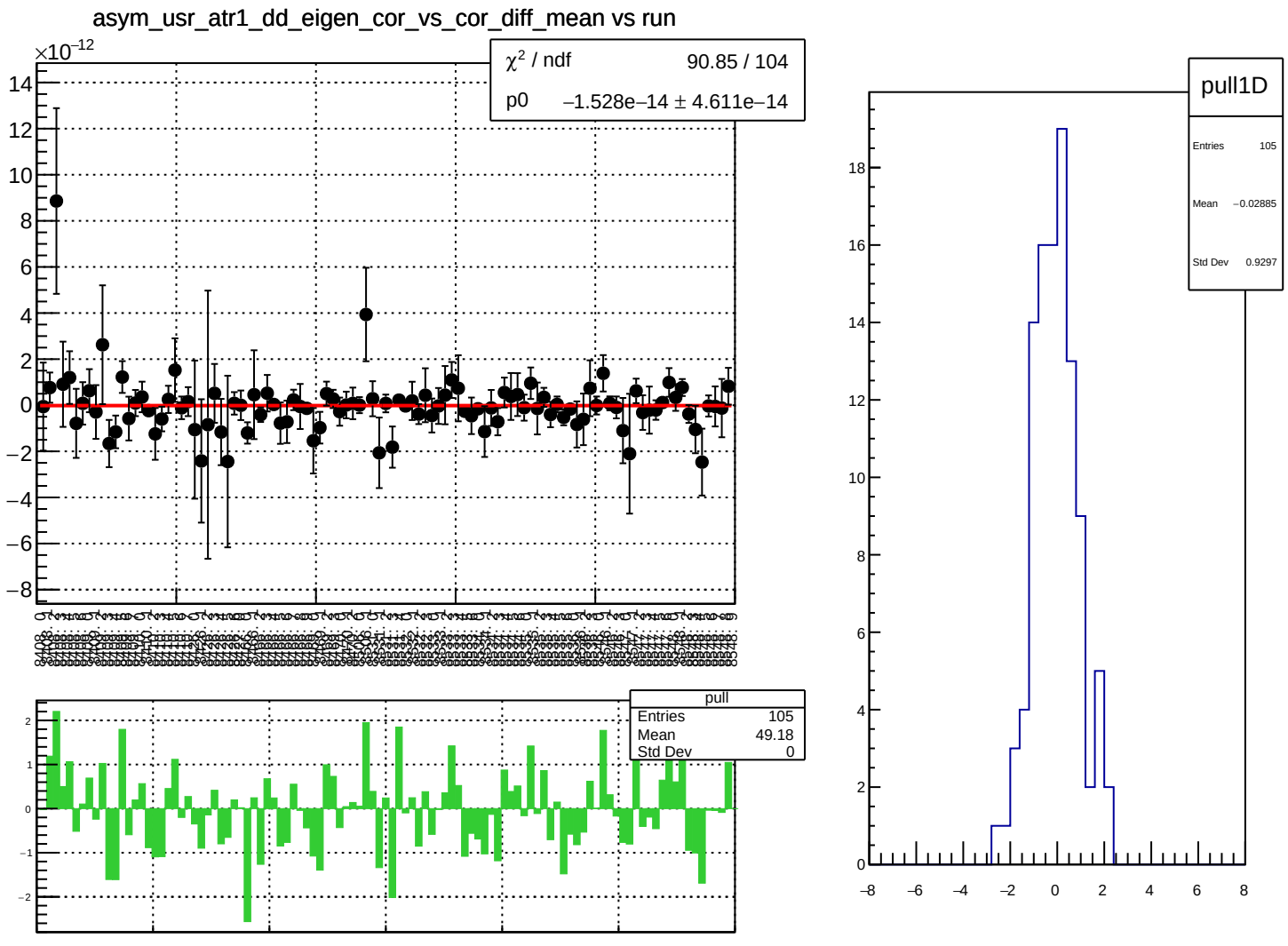

pull1D
Entries 105
Mean −0.01448
Std Dev 1.092

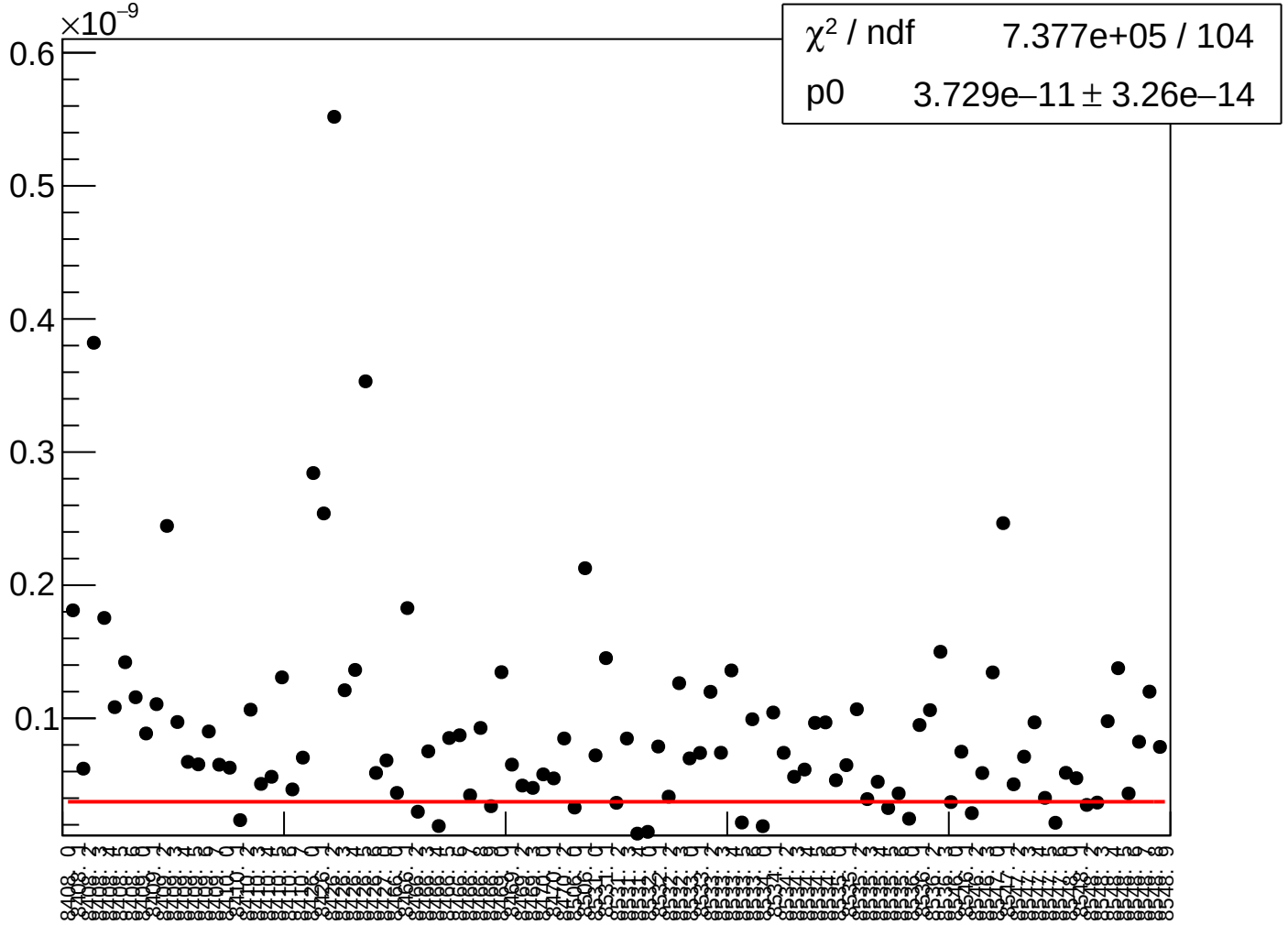

asym_usr_atr1_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.797e+05 / 104
p0 42.17 ± 0.03087
100
90
80
70
60
50
40
30
20

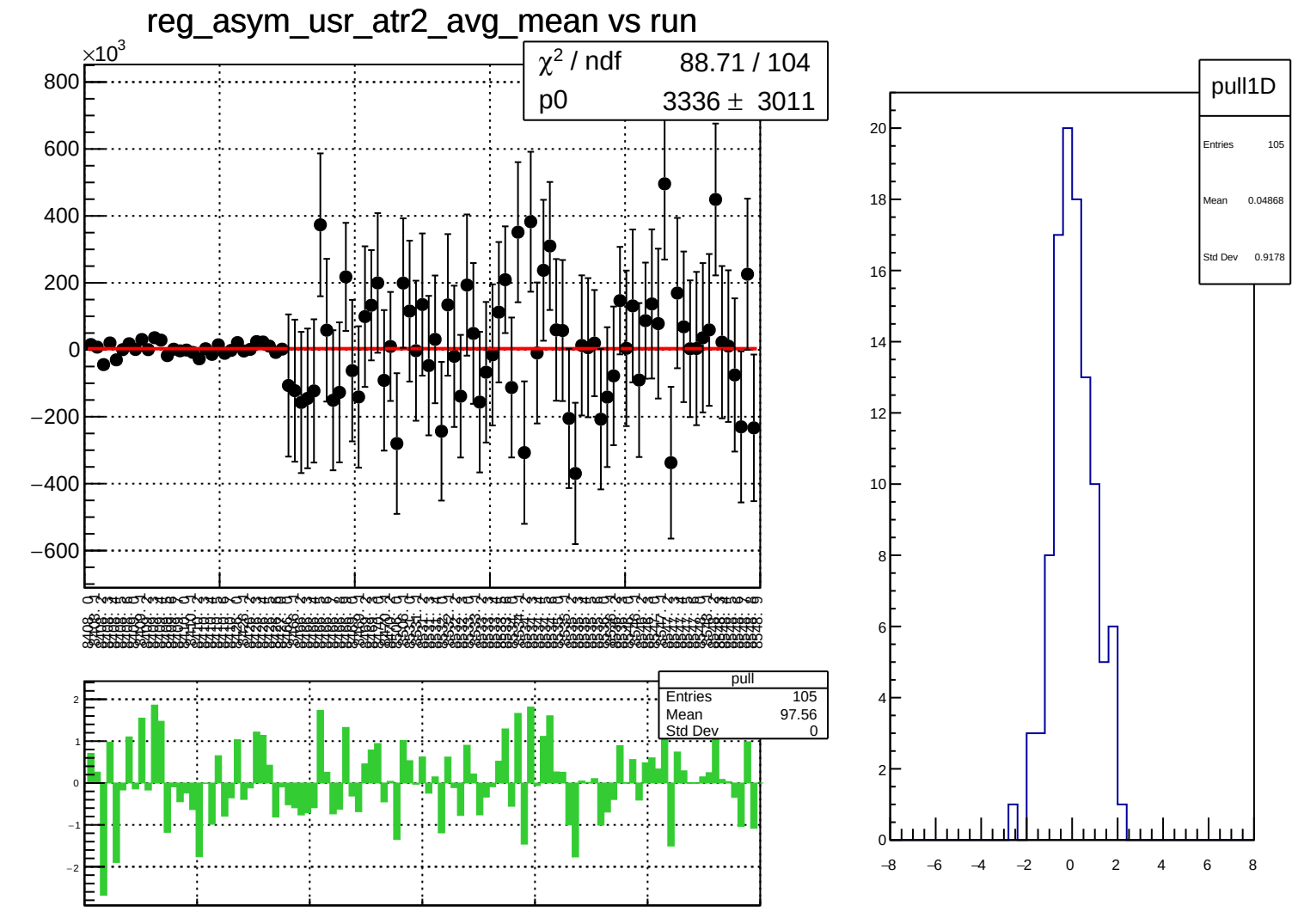

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 125.3 / 104
p0 0.0564 ± 0.04365
pull
Entries 105
Mean −295.3
Std Dev 0

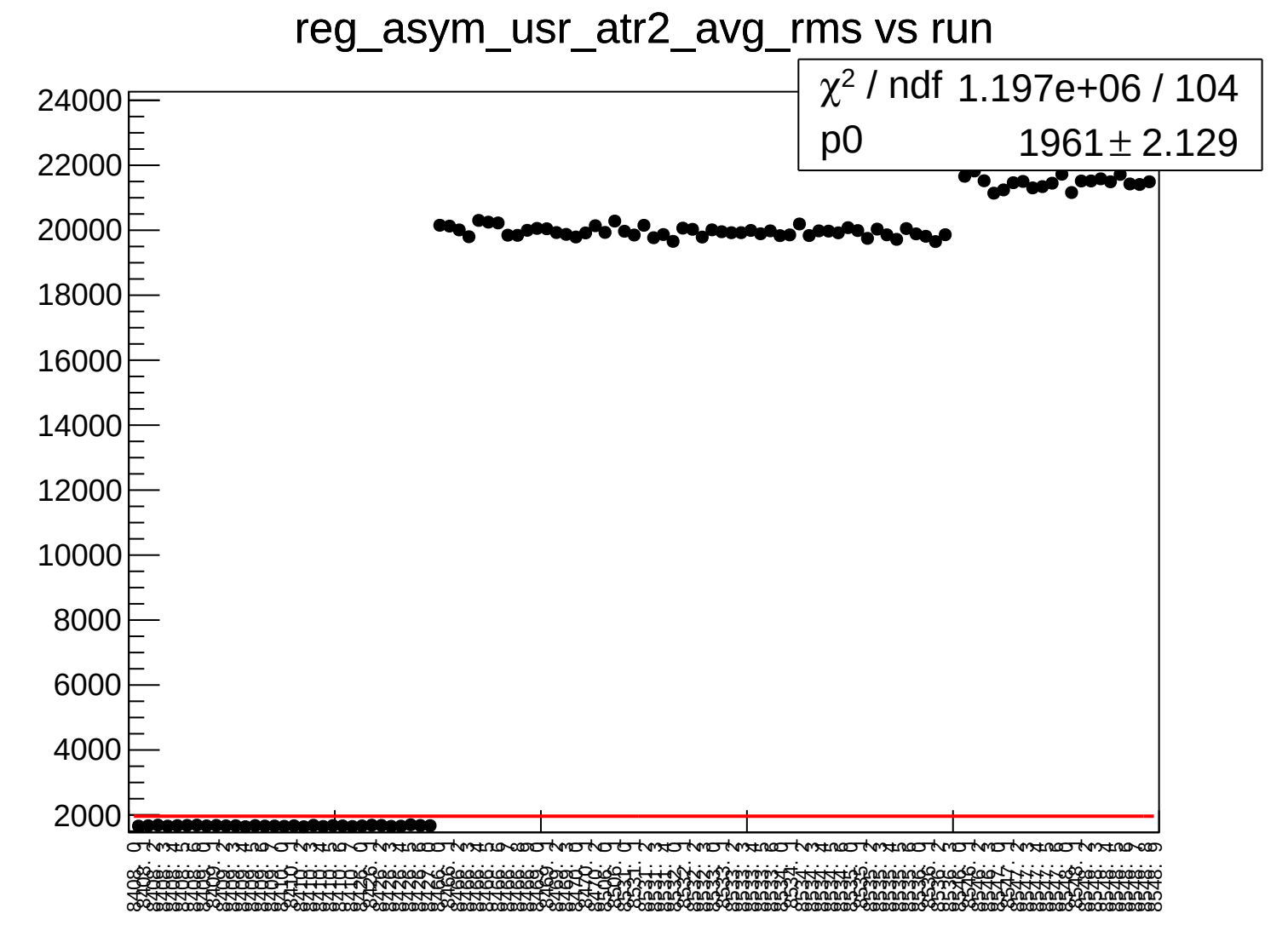

pull1D
Entries 105
Mean −0.01448
Std Dev 1.092

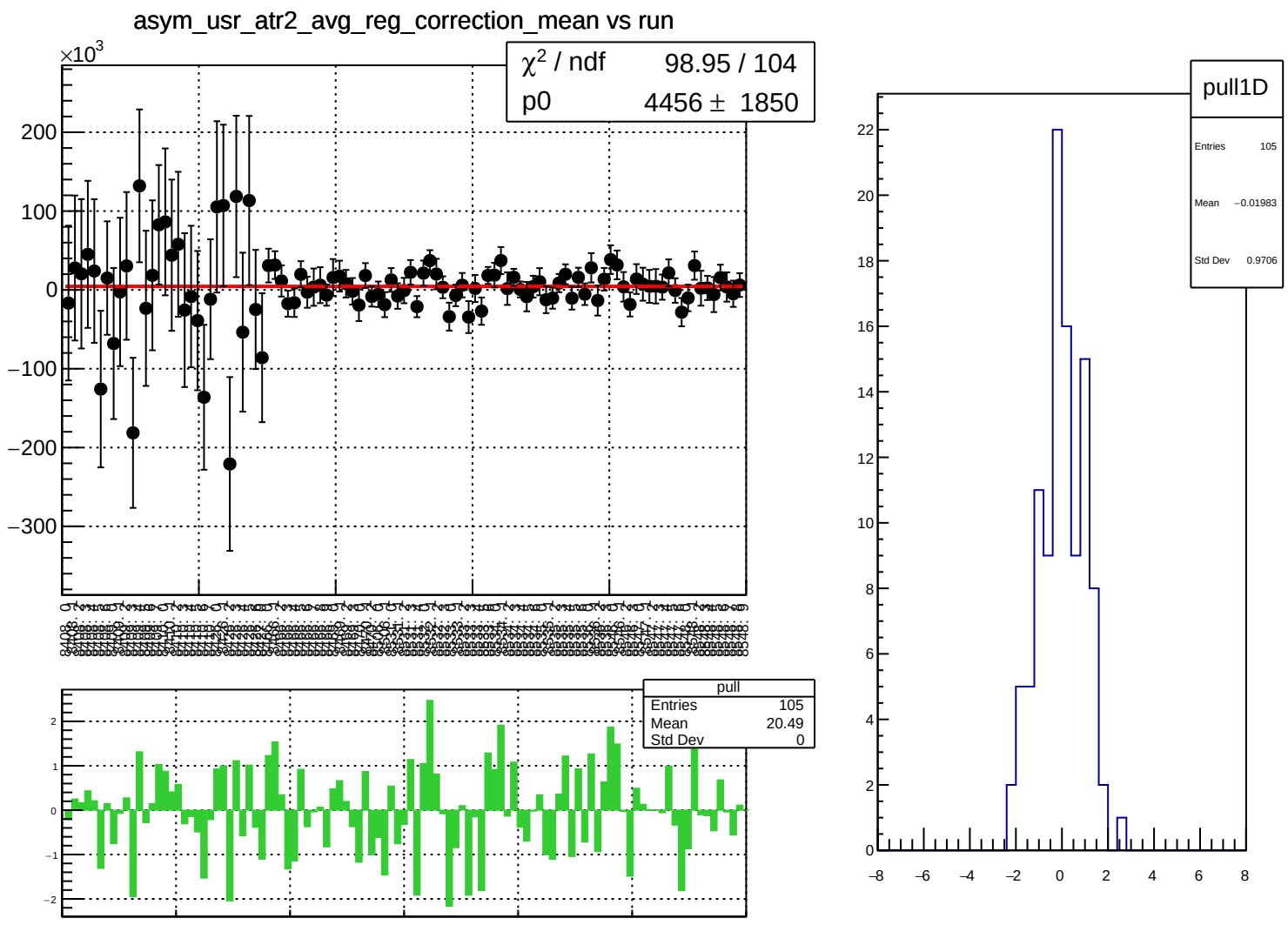

asym_usr_atr1_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.797e+05 / 104
p0 42.17 ± 0.03087
100
90
80
70
60
50
40
30
20

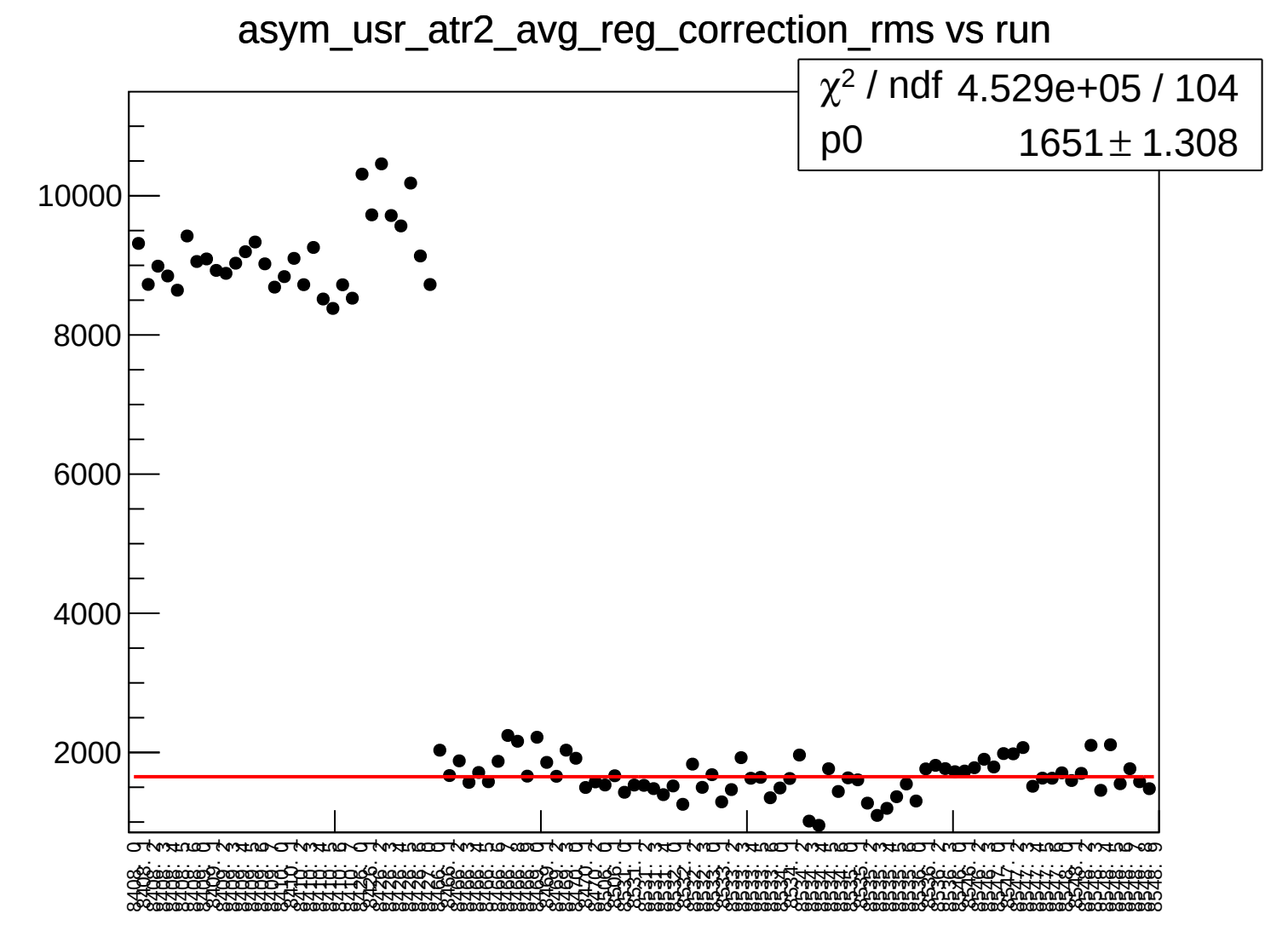

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.85 / 104
p0 −1.528e−14 ± 4.611e−14
pull
Entries 105
Mean 49.18
Std Dev 0
pull1D
Entries 105
Mean −0.02885
Std Dev 0.9297

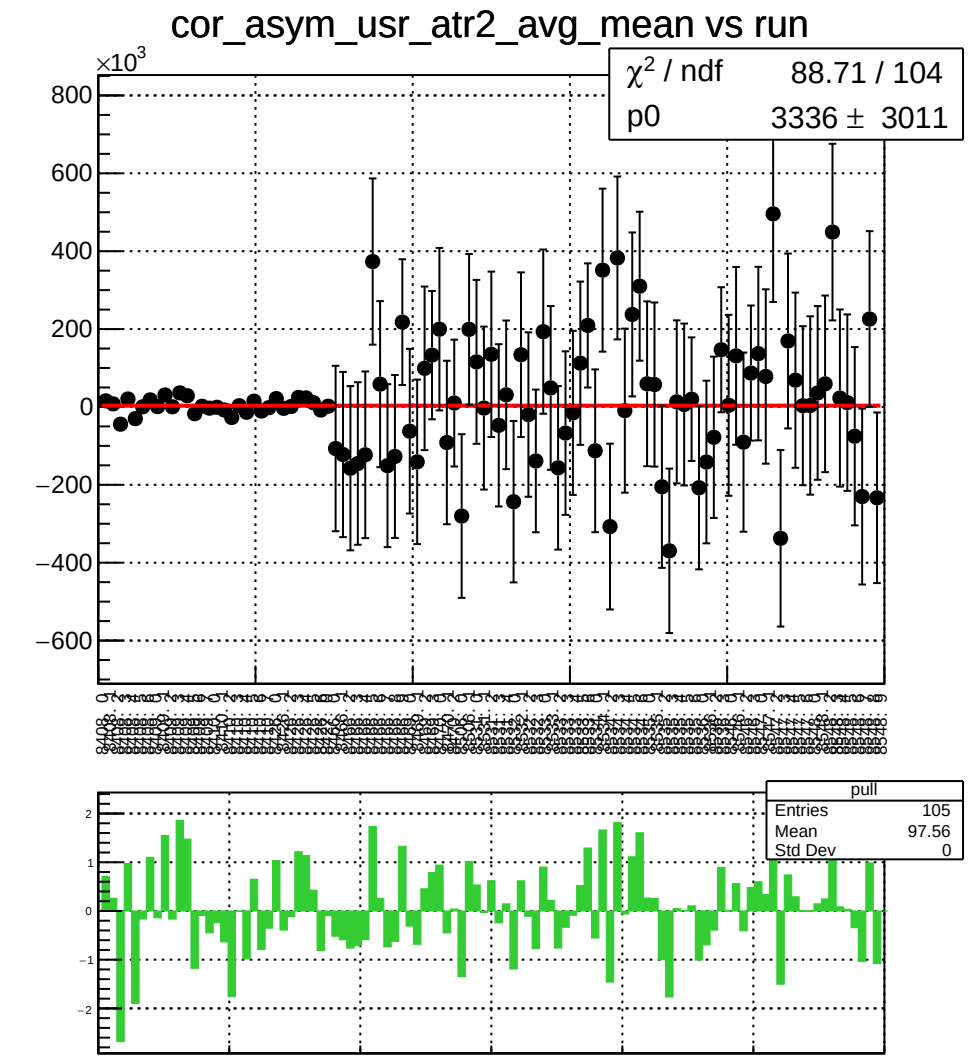

asym_usr_atr1_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.6
0.5
0.4
0.3
0.2
0.1
χ² / ndf 7.377e+05 / 104
p0 3.729e−11 ± 3.26e−14

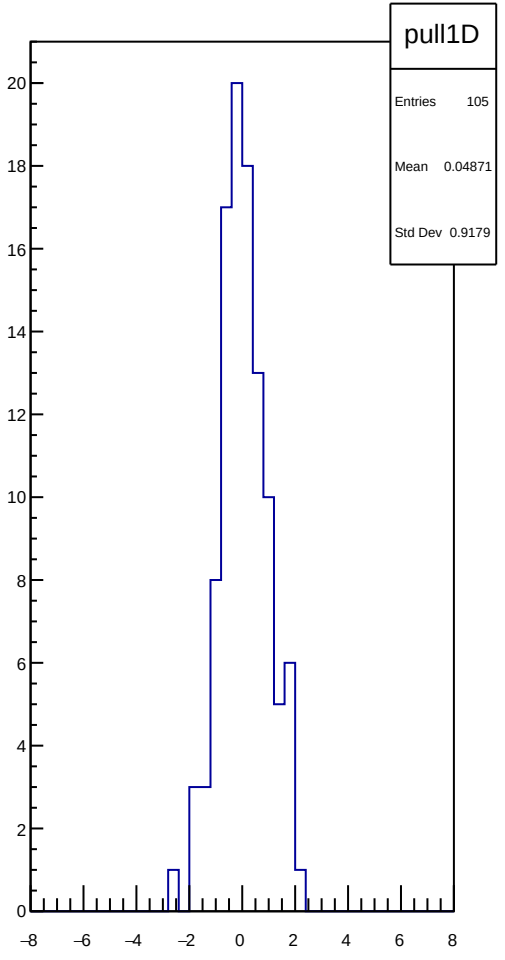

reg_asym_usr_atr2_avg_mean vs run
×10^3
χ^2 / ndf 88.71 / 104
p0 3336 ± 3011
800
600
400
200
0
−200
−400
−600
pull
Entries 105
Mean 97.56
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.04868
Std Dev 0.9178
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

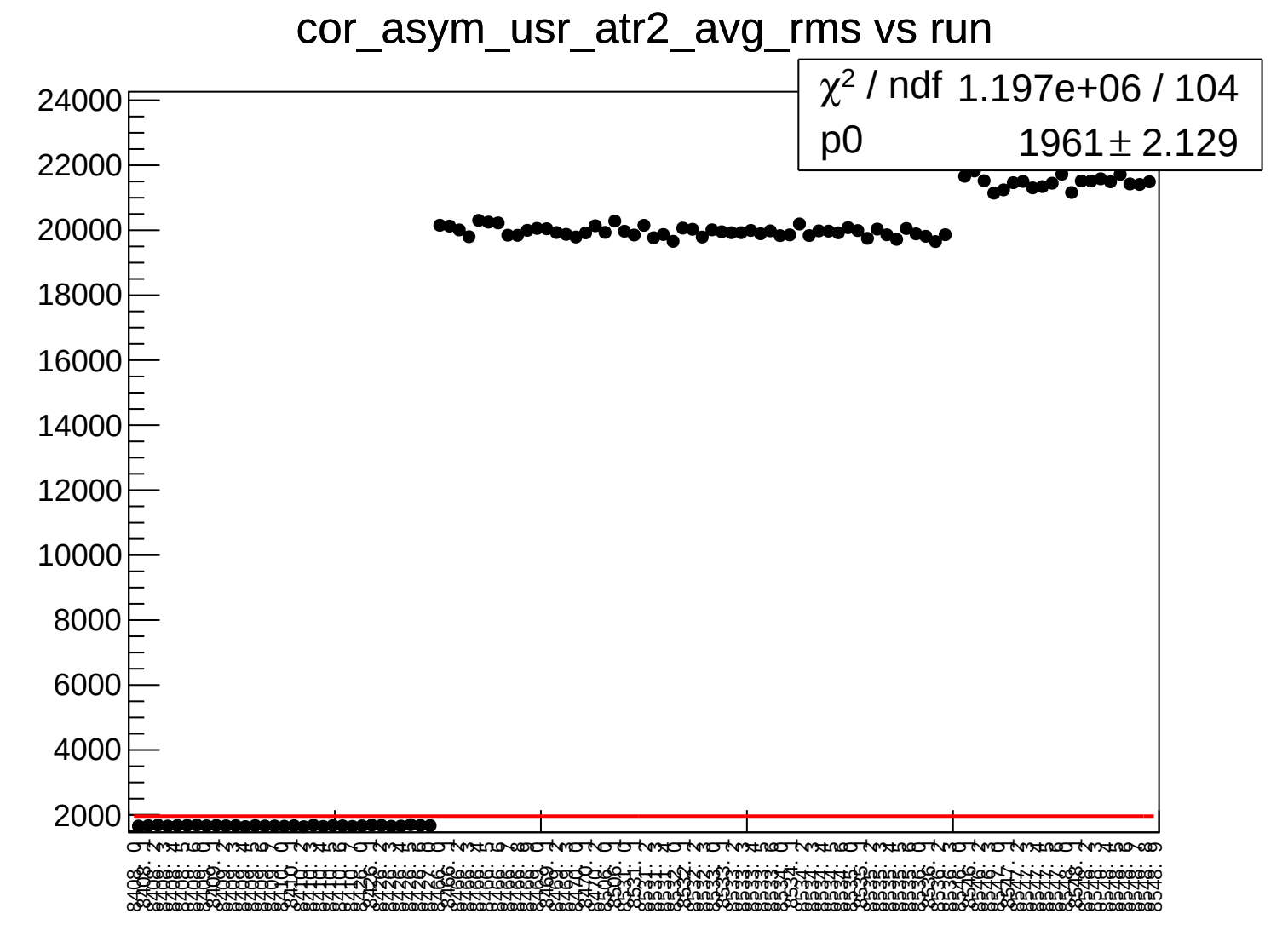

reg_asym_usr_atr2_avg_rms vs run
χ² / ndf 1.197e+06 / 104
p0 1961 ± 2.129
24000
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000

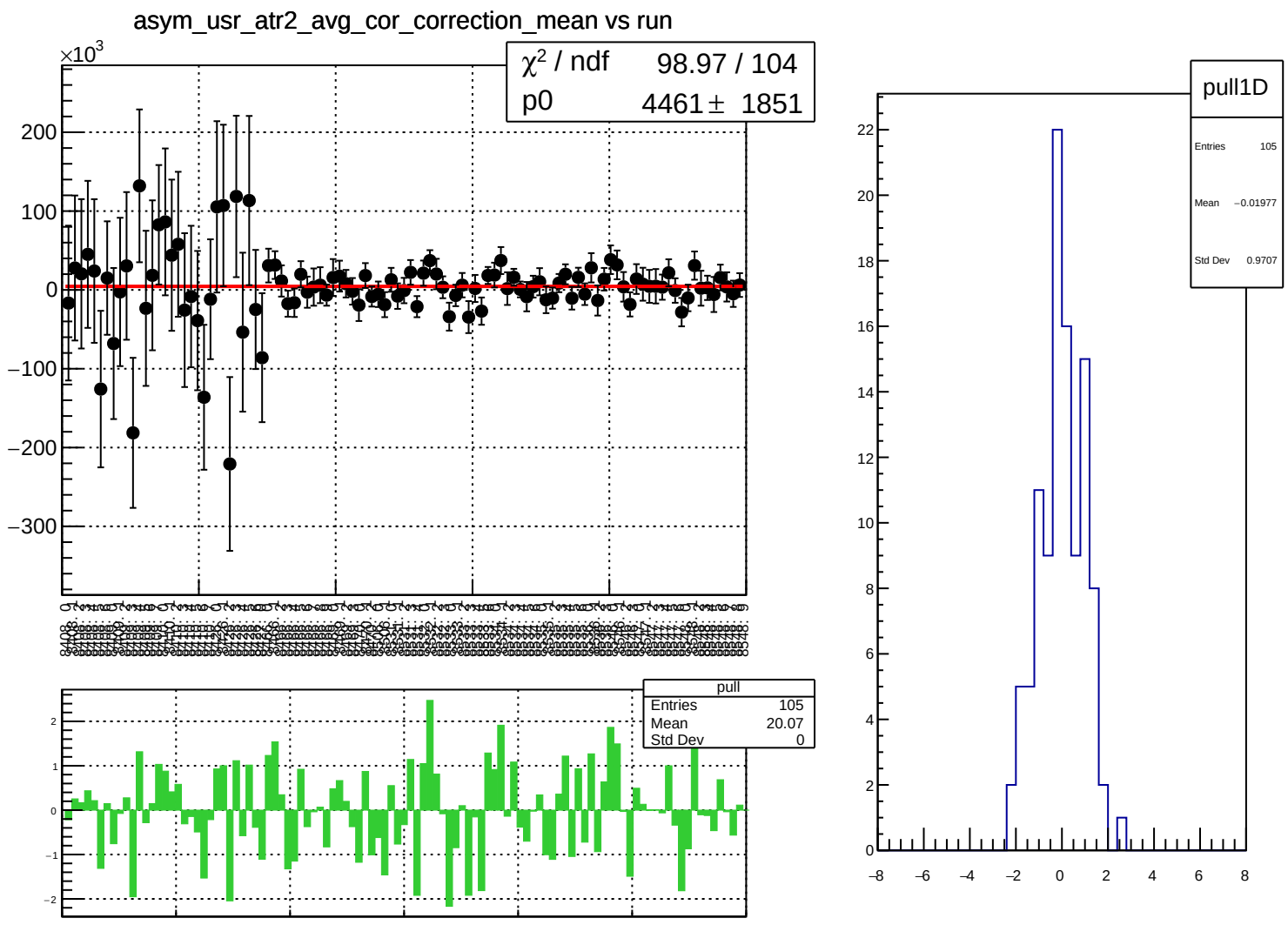

asym_usr_atr2_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 98.95 / 104
p0 4456 ± 1850
200
100
0
−100
−200
−300
pull
Entries 105
Mean 20.49
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.01983
Std Dev 0.9706
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

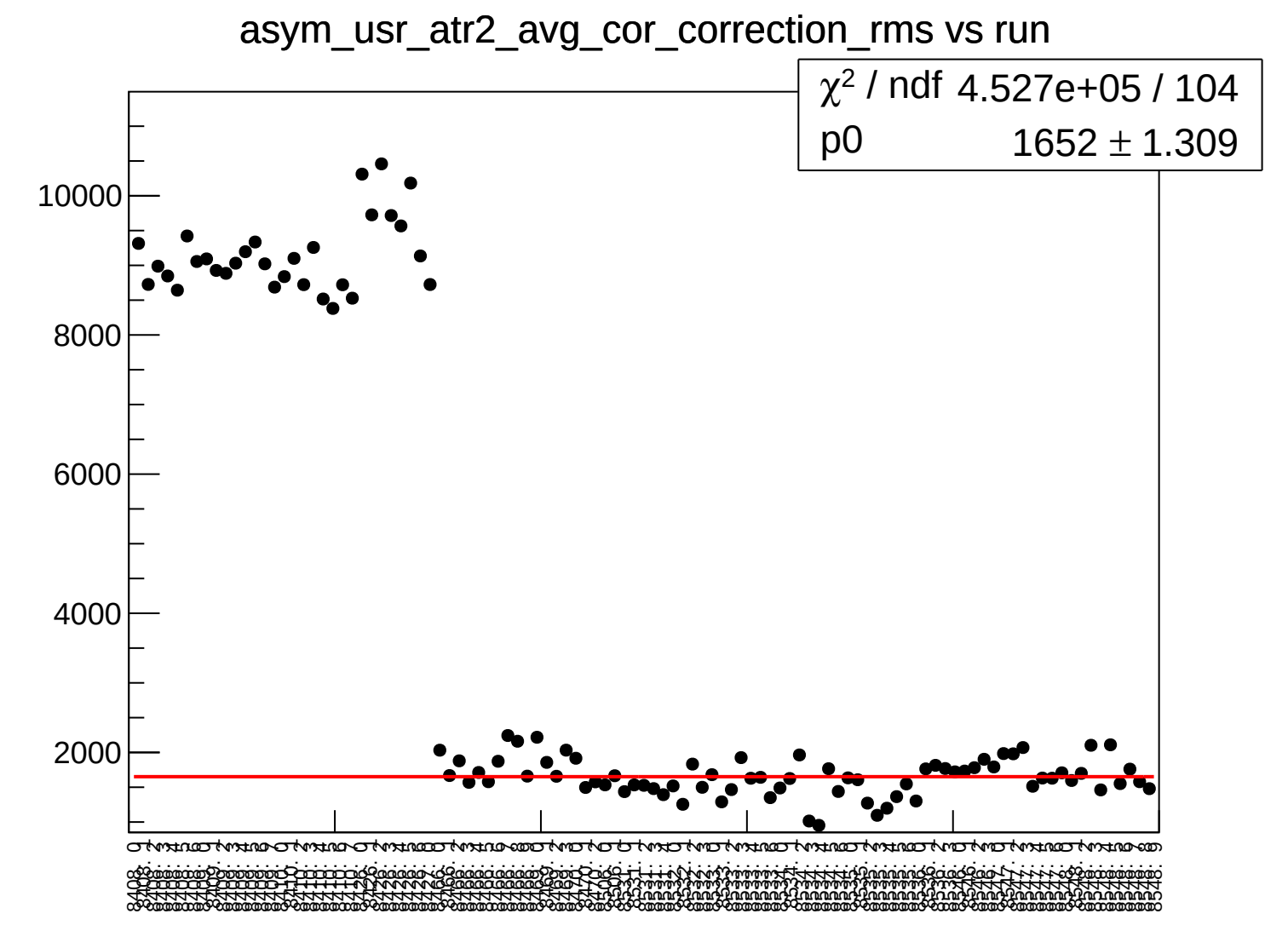

asym_usr_atr2_avg_reg_correction_rms vs run
χ² / ndf 4.529e+05 / 104
p0 1651 ± 1.308
10000
8000
6000
4000
2000

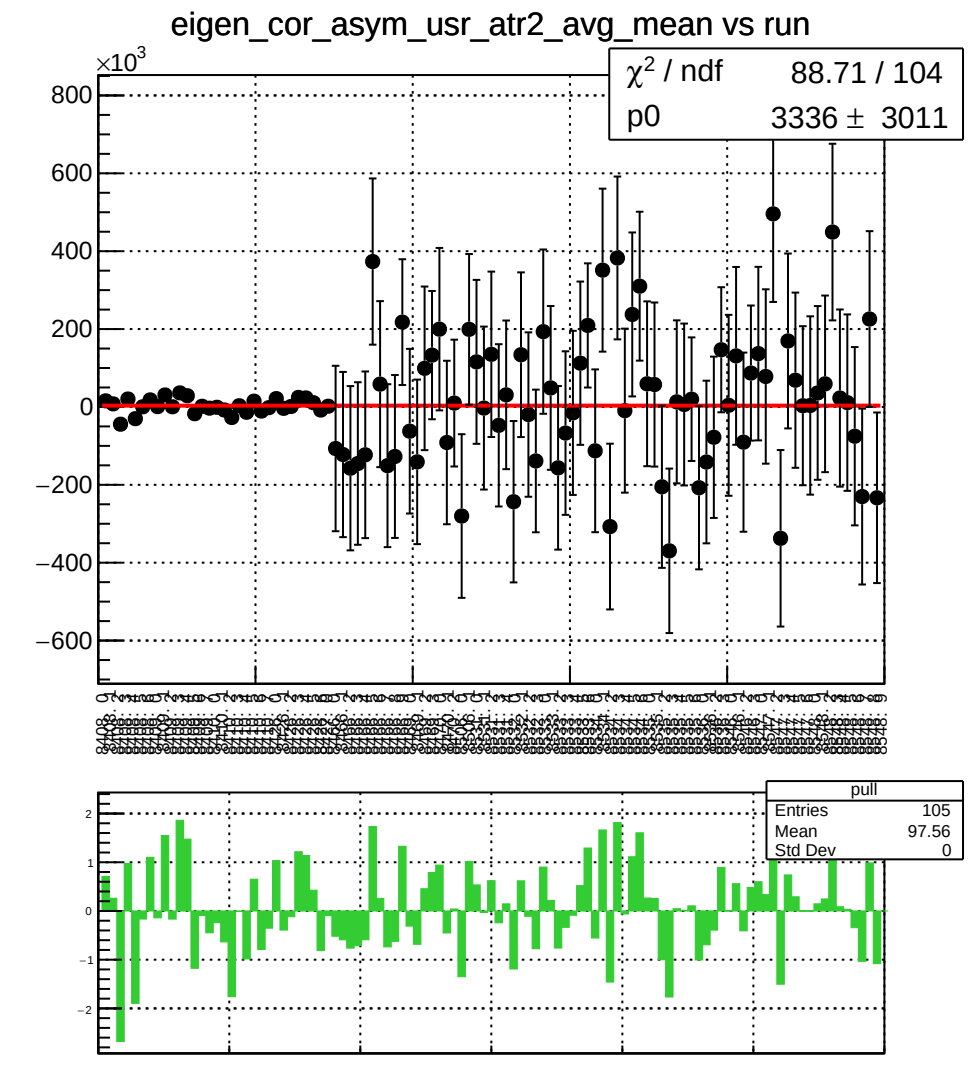

cor_asym_usr_atr2_avg_mean vs run
×10^3
χ^2 / ndf 88.71 / 104
p0 3336 ± 3011
pull
Entries 105
Mean 97.56
Std Dev 0

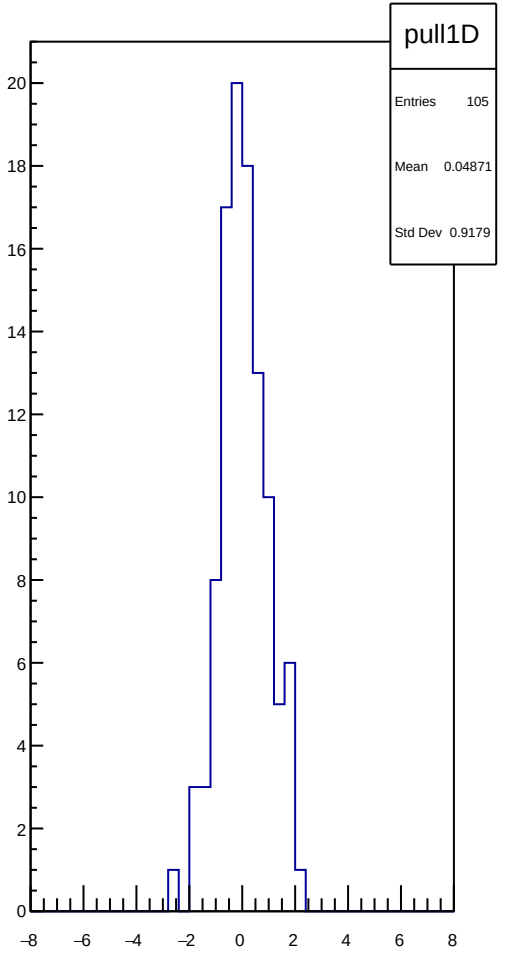

pull1D
Entries 105
Mean 0.04871
Std Dev 0.9179

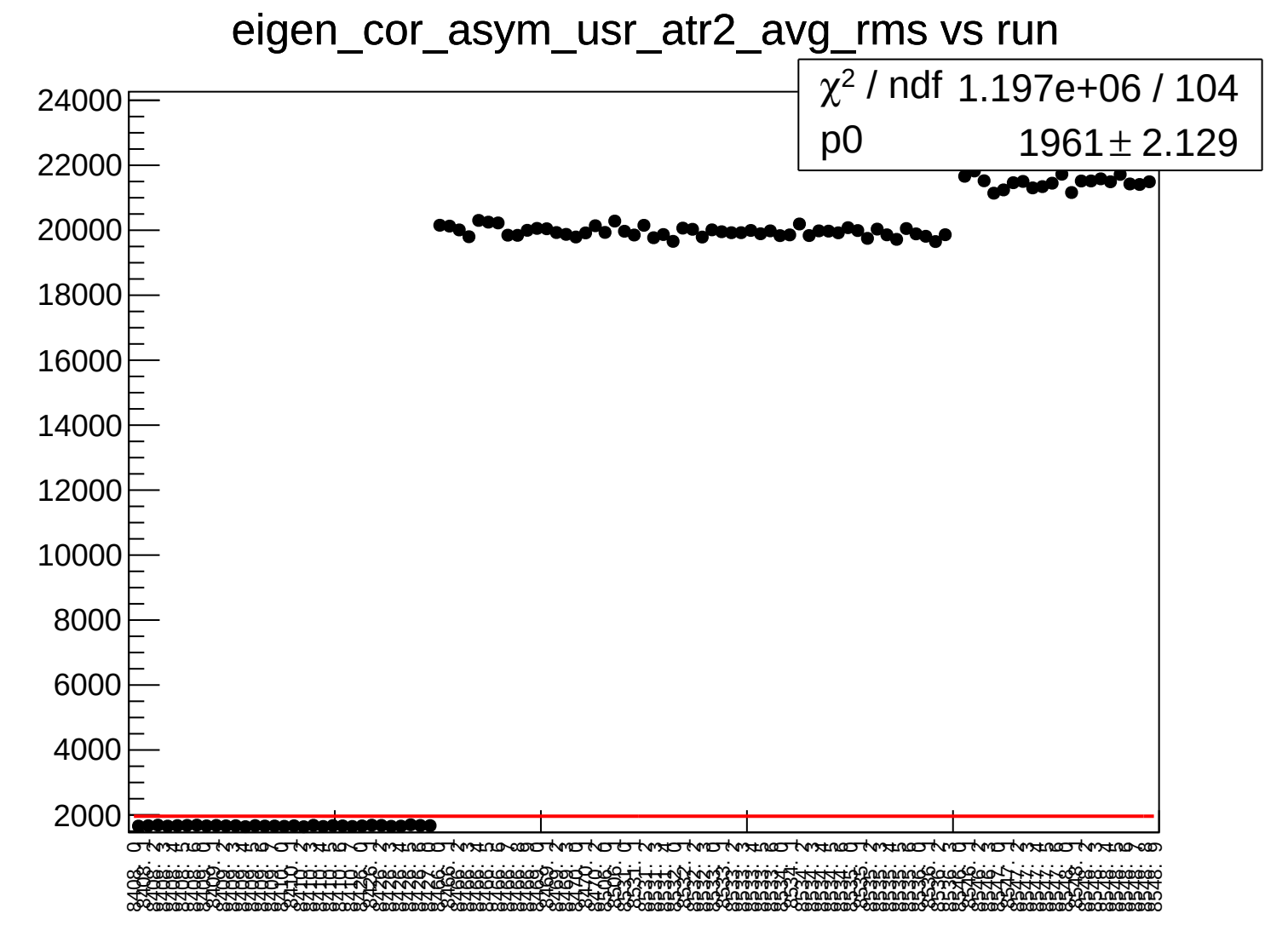

cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 1.197e+06 / 104
p0 1961 ± 2.129
24000
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000

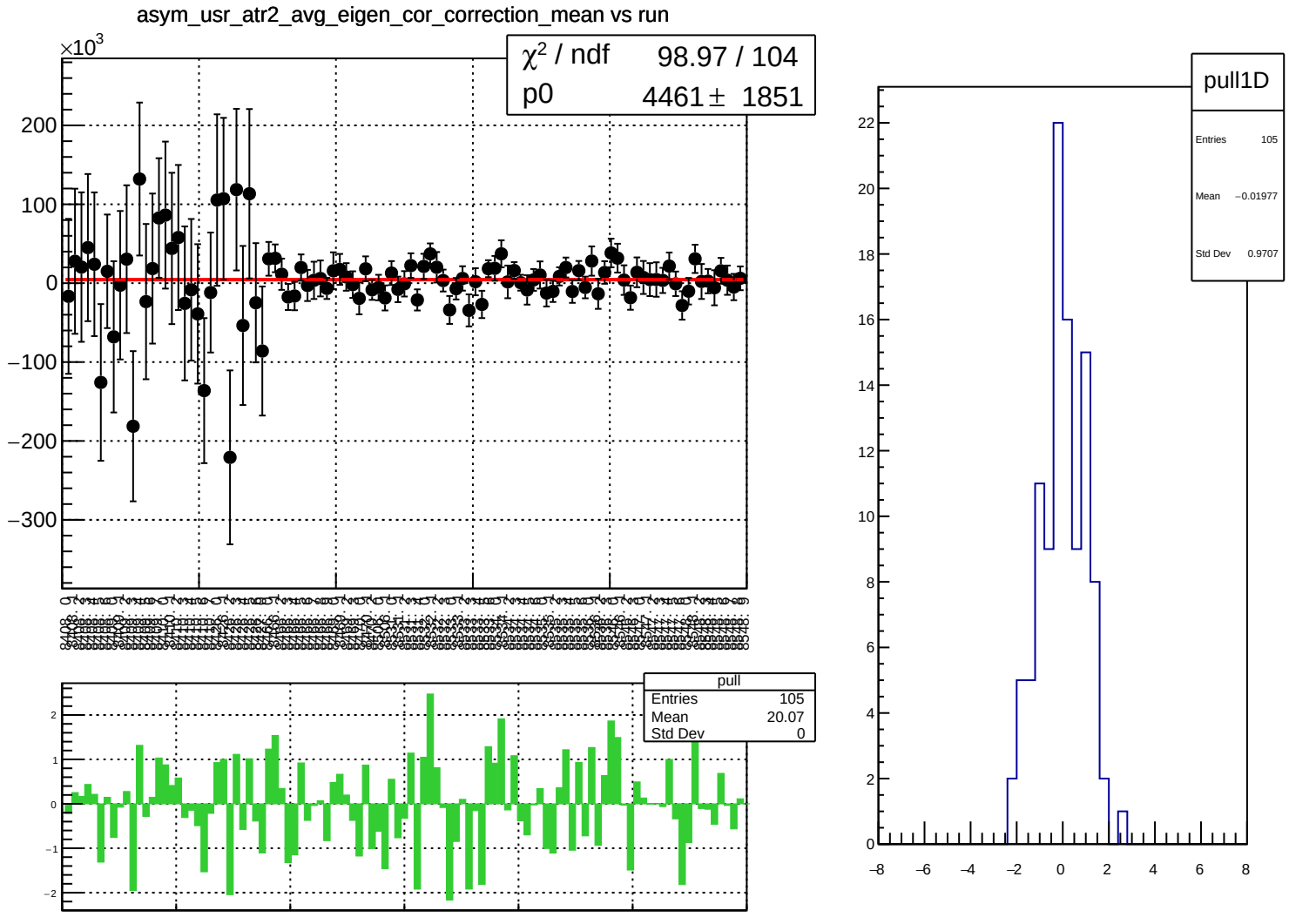

asym_usr_atr2_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 98.97 / 104
p0 4461 ± 1851
200
100
0
−100
−200
−300
pull
Entries 105
Mean 20.07
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.01977
Std Dev 0.9707
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

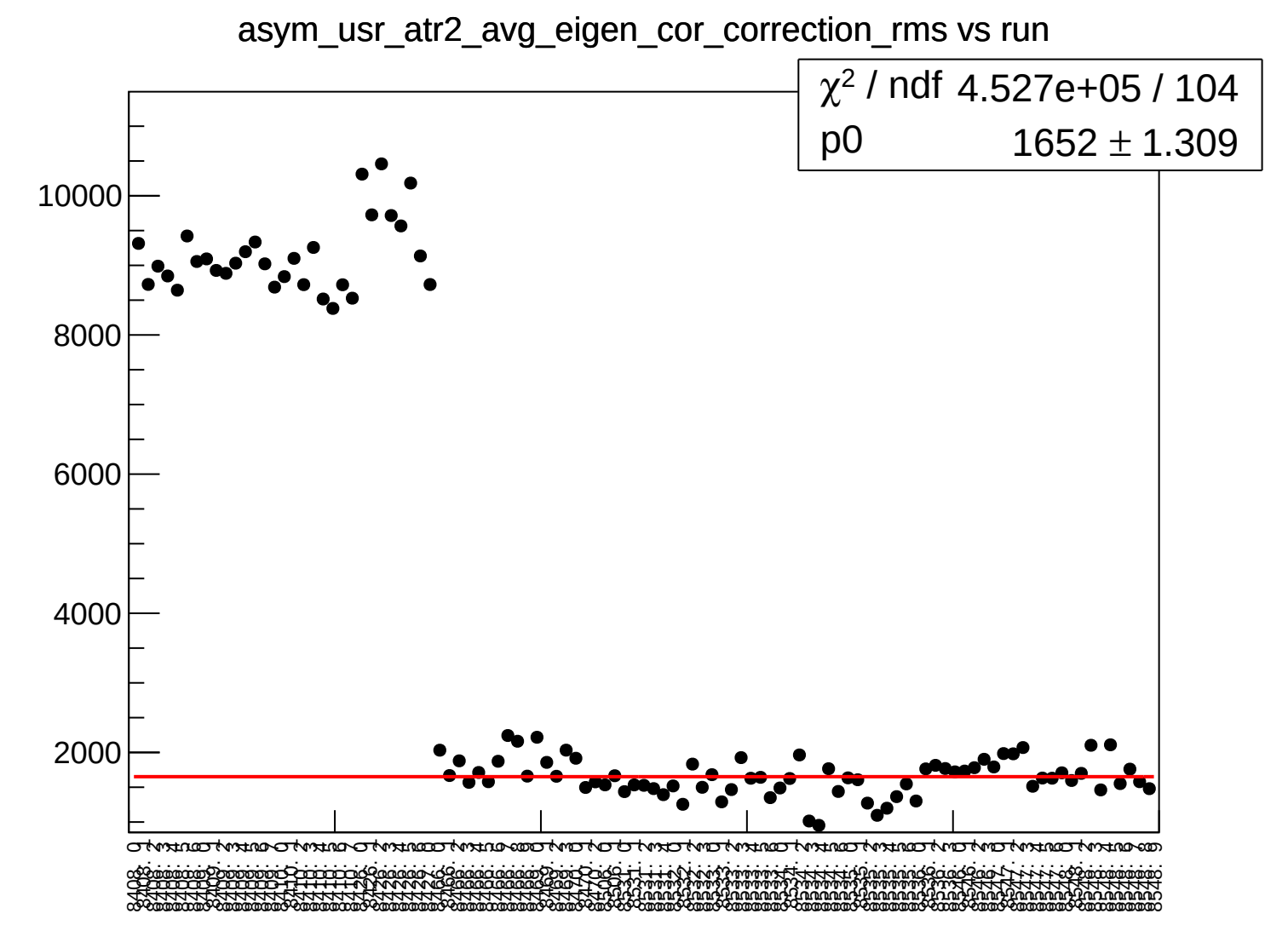

asym_usr_atr2_avg_cor_correction_rms vs run
χ² / ndf 4.527e+05 / 104
p0 1652 ± 1.309
10000
8000
6000
4000
2000

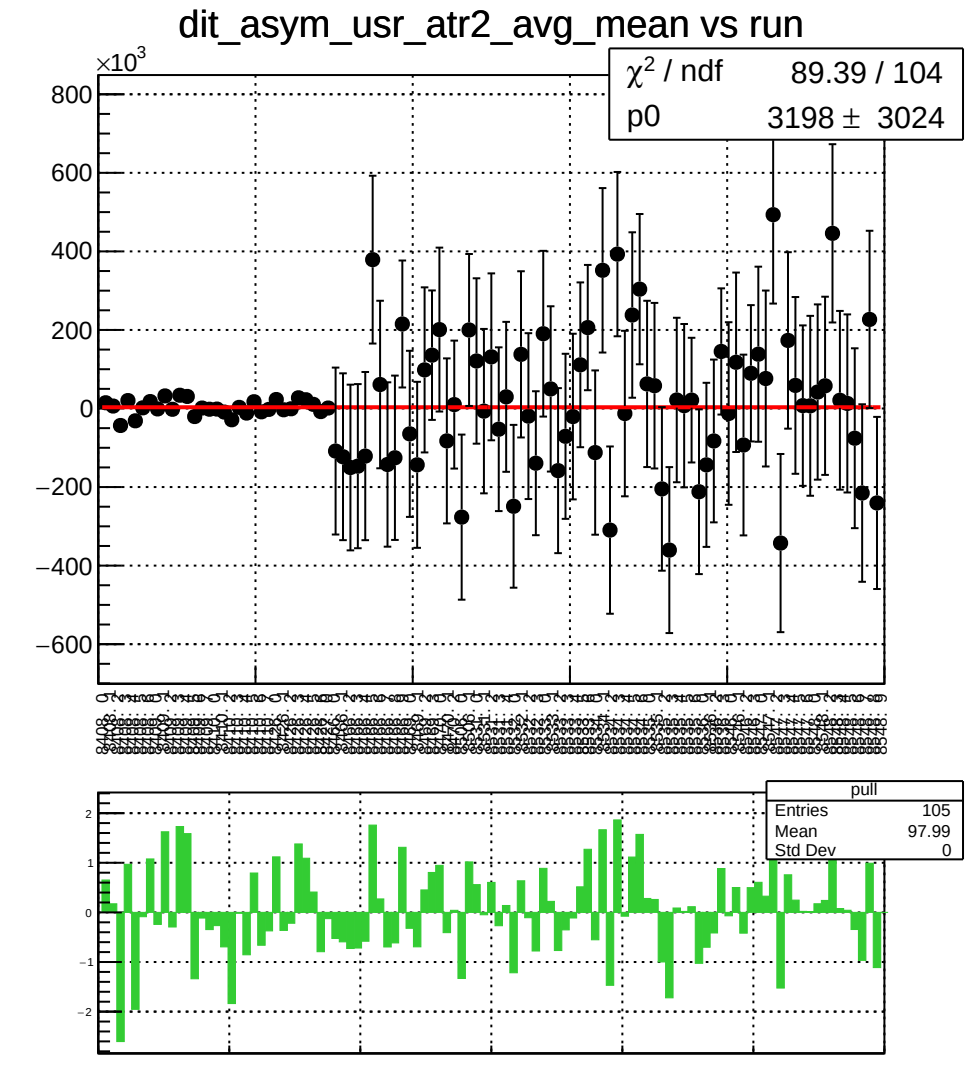

eigen_cor_asym_usr_atr2_avg_mean vs run
×10^3
χ^2 / ndf 88.71 / 104
p0 3336 ± 3011
pull
Entries 105
Mean 97.56
Std Dev 0

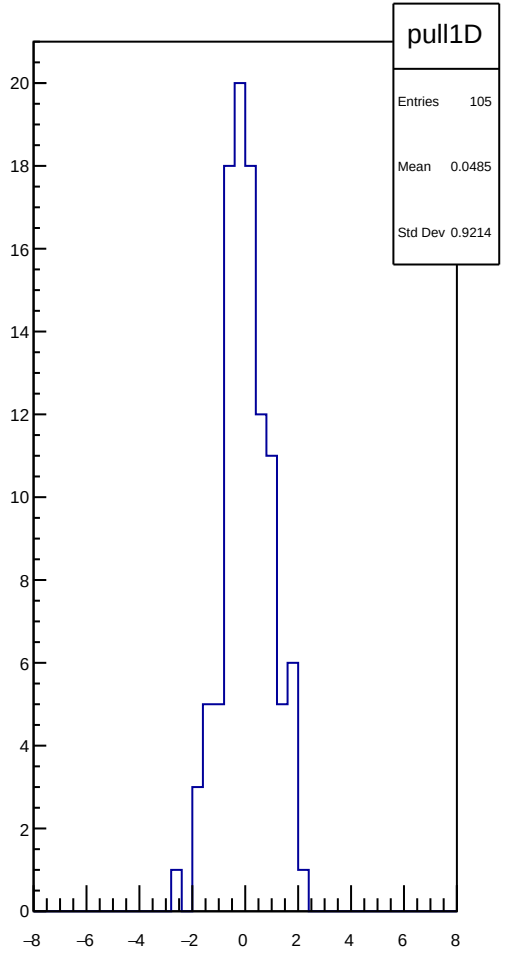

pull1D
Entries 105
Mean 0.04871
Std Dev 0.9179

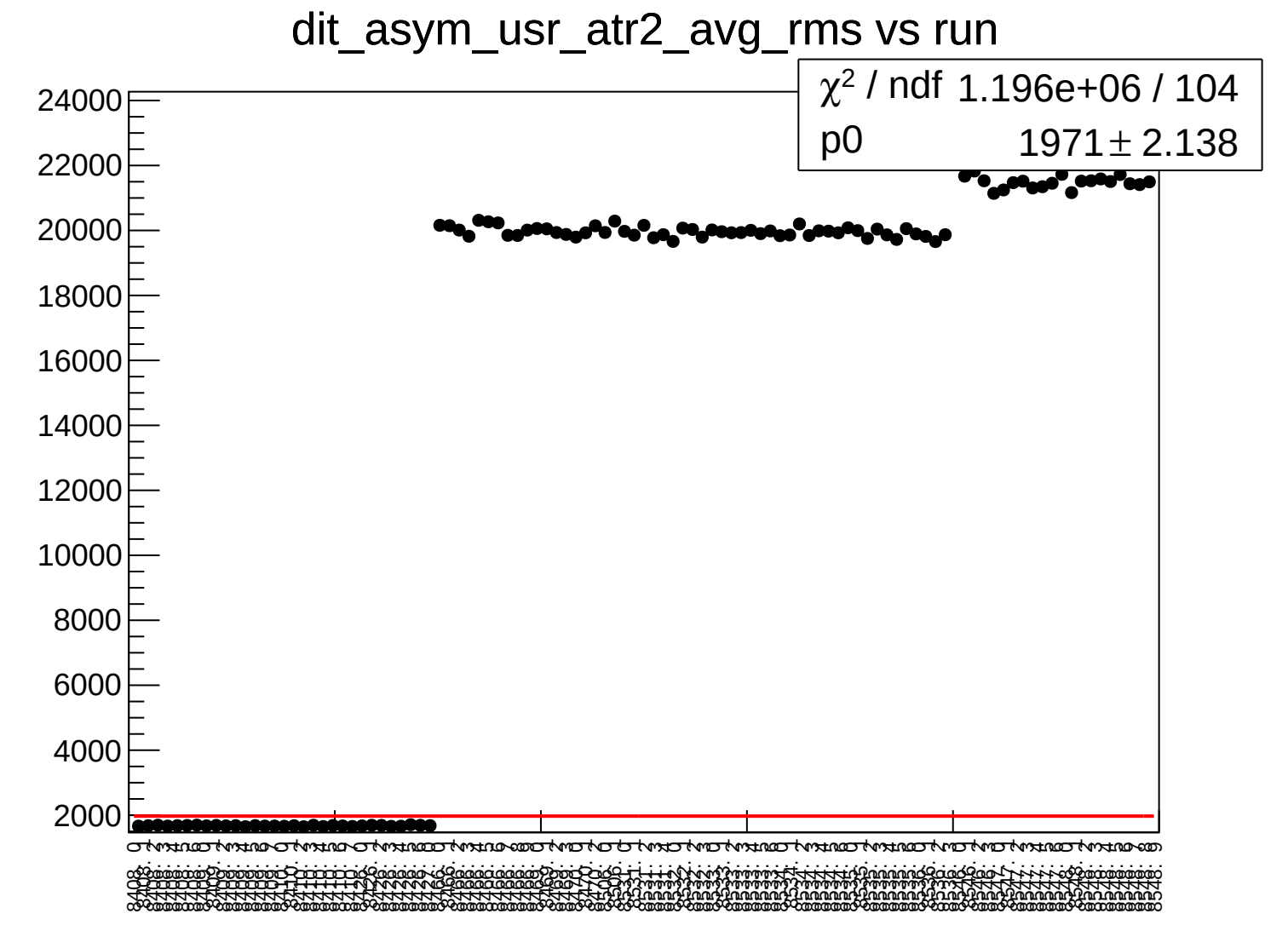

eigen_cor_asym_usr_atr2_avg_rms vs run
χ² / ndf 1.197e+06 / 104
p0 1961 ± 2.129
24000
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000

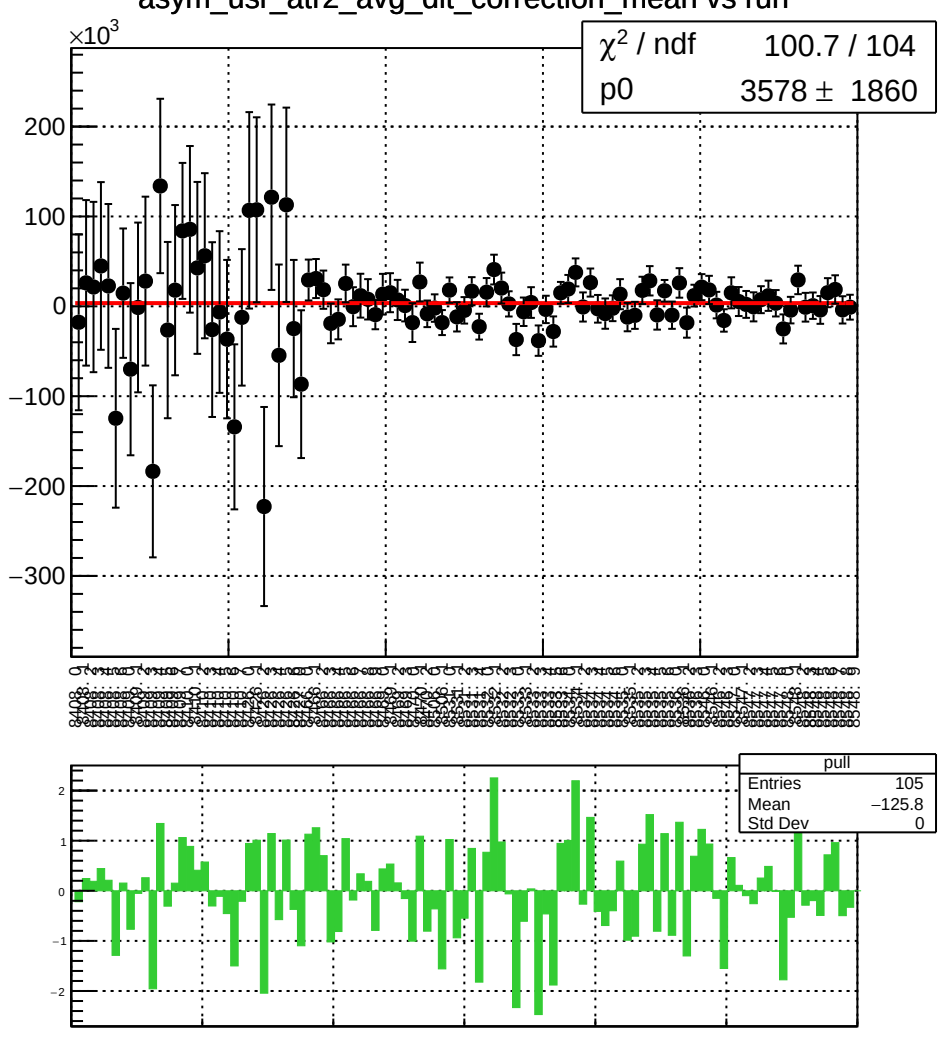

asym_usr_atr2_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 98.97 / 104
p0 4461 ± 1851
200
100
0
−100
−200
−300
pull
Entries 105
Mean 20.07
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.01977
Std Dev 0.9707
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

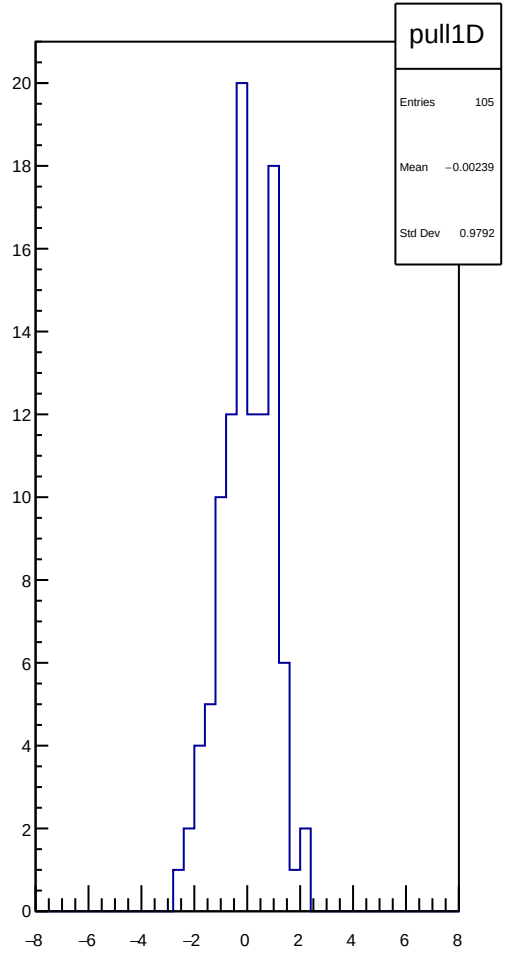

asym_usr_atr2_avg_eigen_cor_correction_rms vs run
χ² / ndf 4.527e+05 / 104
p0 1652 ± 1.309
10000
8000
6000
4000
2000

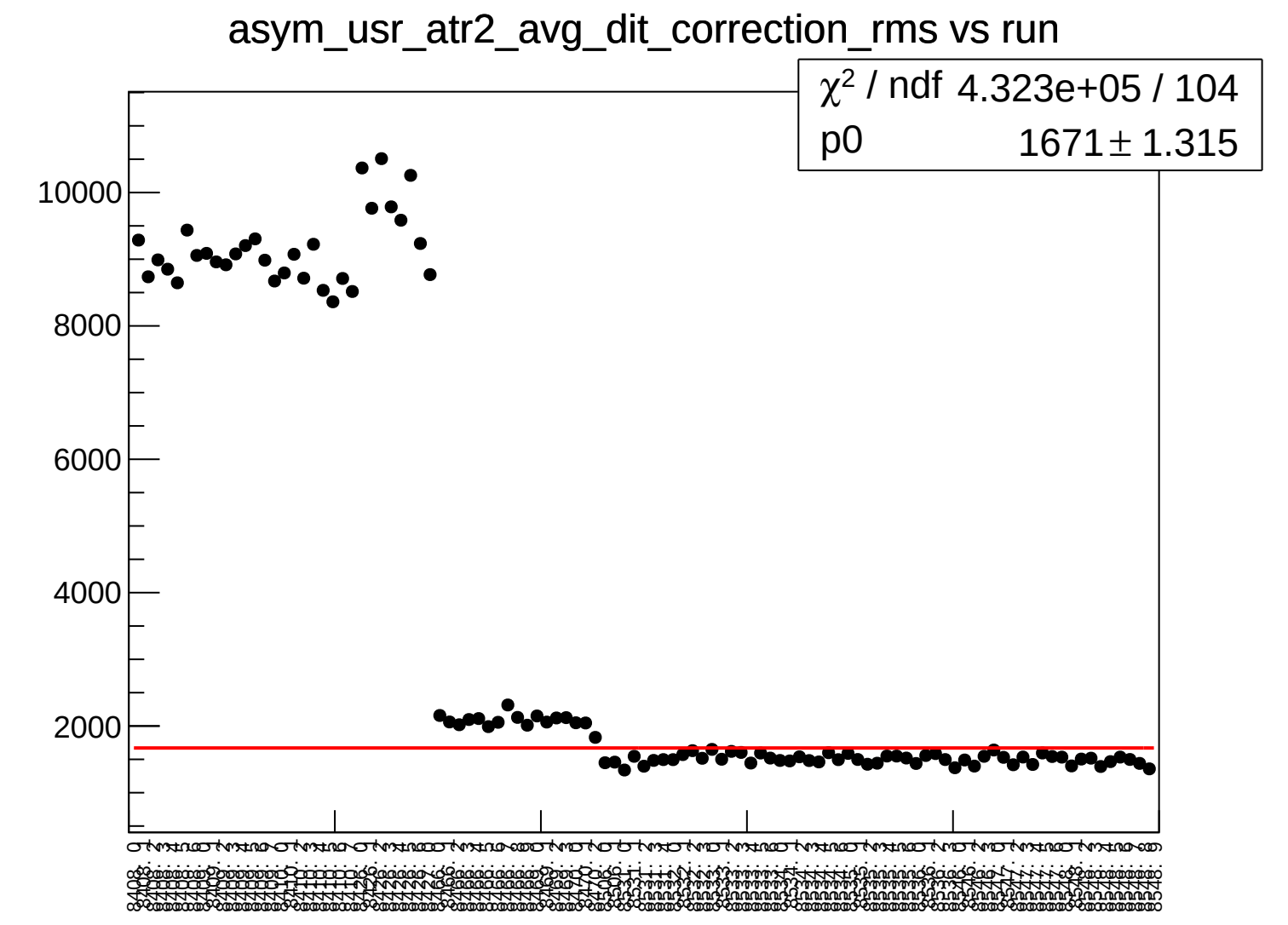

dit_asym_usr_atr2_avg_mean vs run
×10^3
χ^2 / ndf 89.39 / 104
p0 3198 ± 3024
pull
Entries 105
Mean 97.99
Std Dev 0

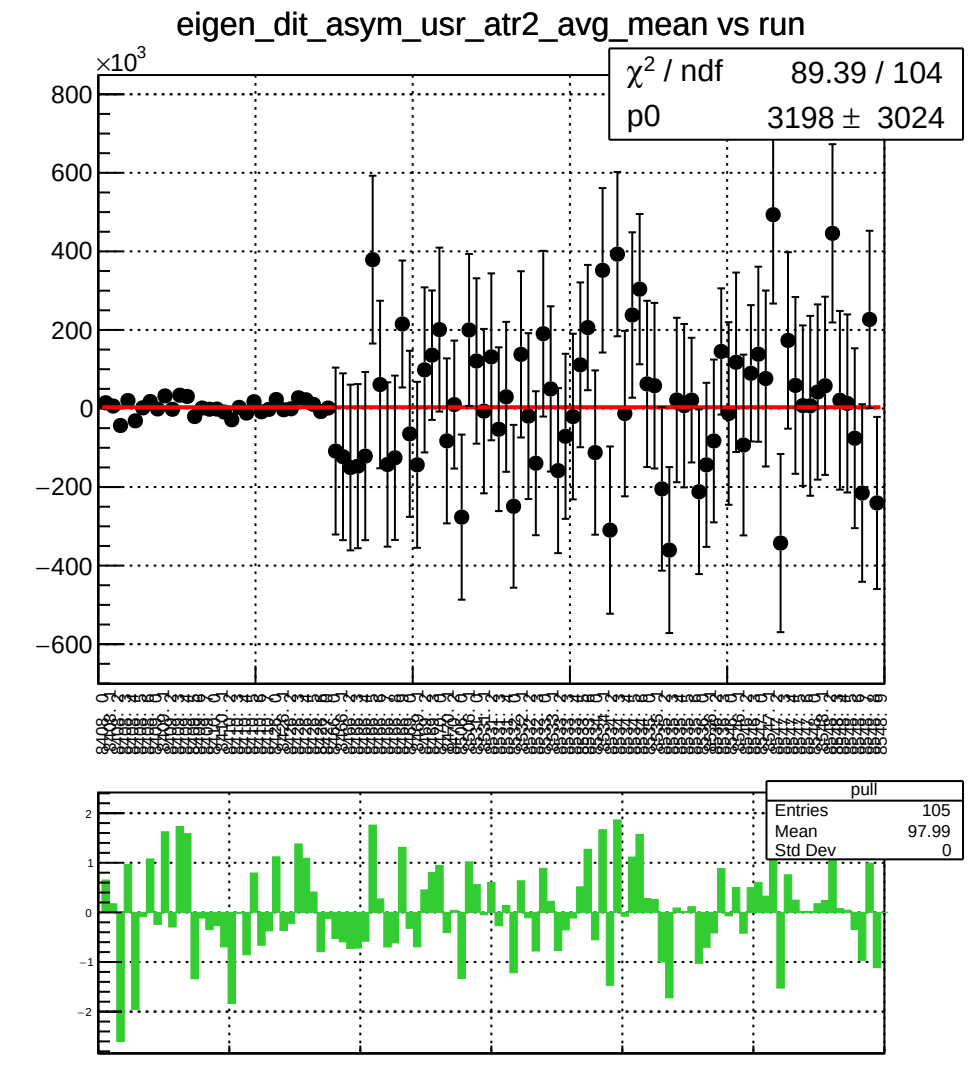

pull1D
Entries 105
Mean 0.0485
Std Dev 0.9214

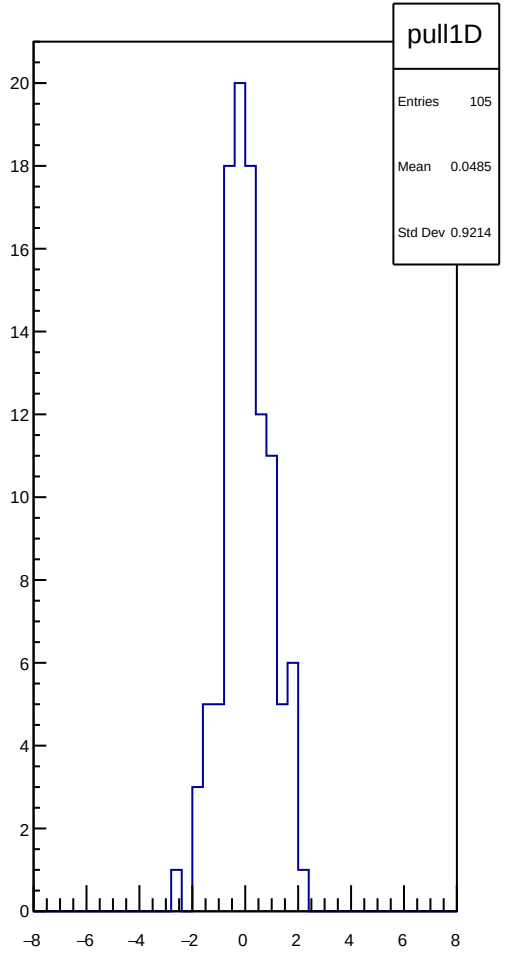

dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 1.196e+06 / 104
p0 1971 ± 2.138
24000
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000

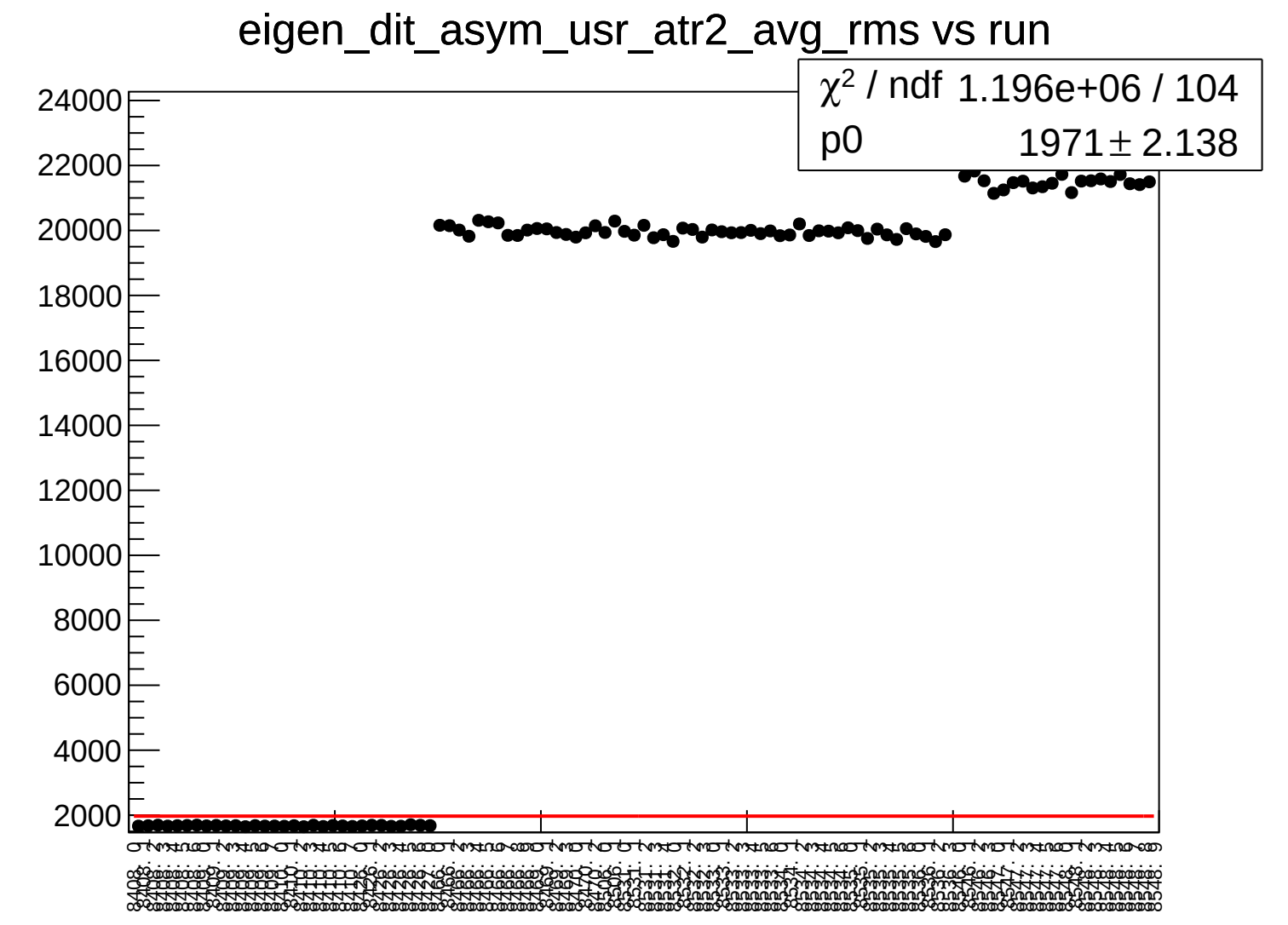

asym_usr_atr2_avg_dit_correction_mean vs run
×10^3
χ² / ndf 100.7 / 104
p0 3578 ± 1860
200
100
0
−100
−200
−300
pull
Entries 105
Mean −125.8
Std Dev 0
2
1
0
−1
−2

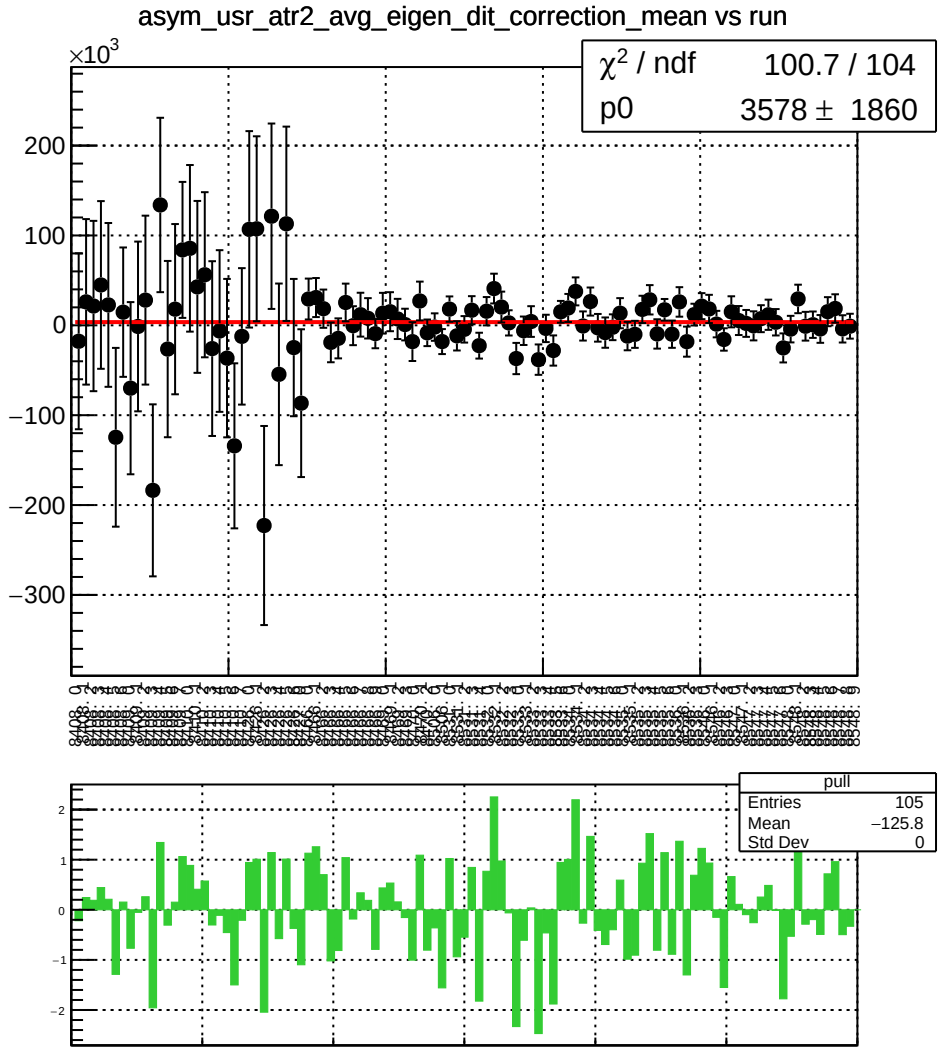

pull1D
Entries 105
Mean −0.00239
Std Dev 0.9792
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

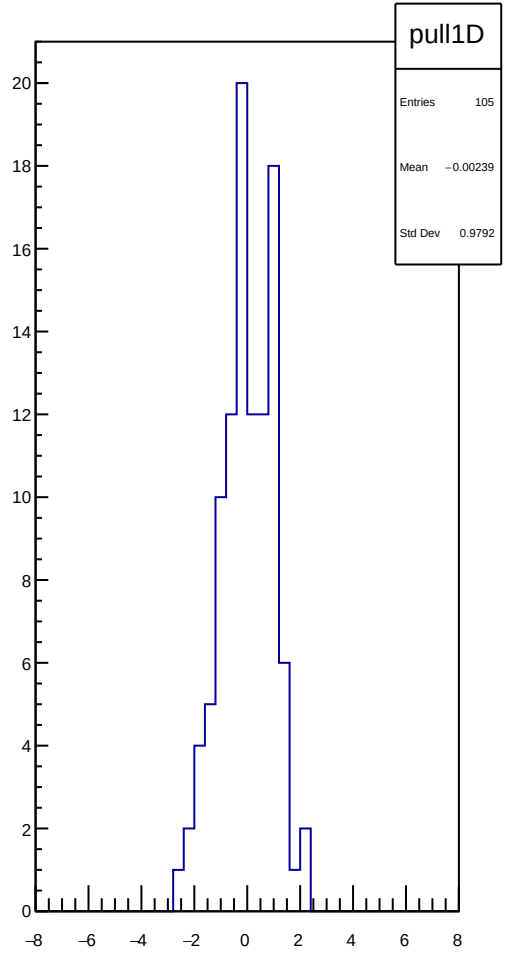

asym_usr_atr2_avg_dit_correction_rms vs run
χ² / ndf 4.323e+05 / 104
p0 1671 ± 1.315
10000
8000
6000
4000
2000

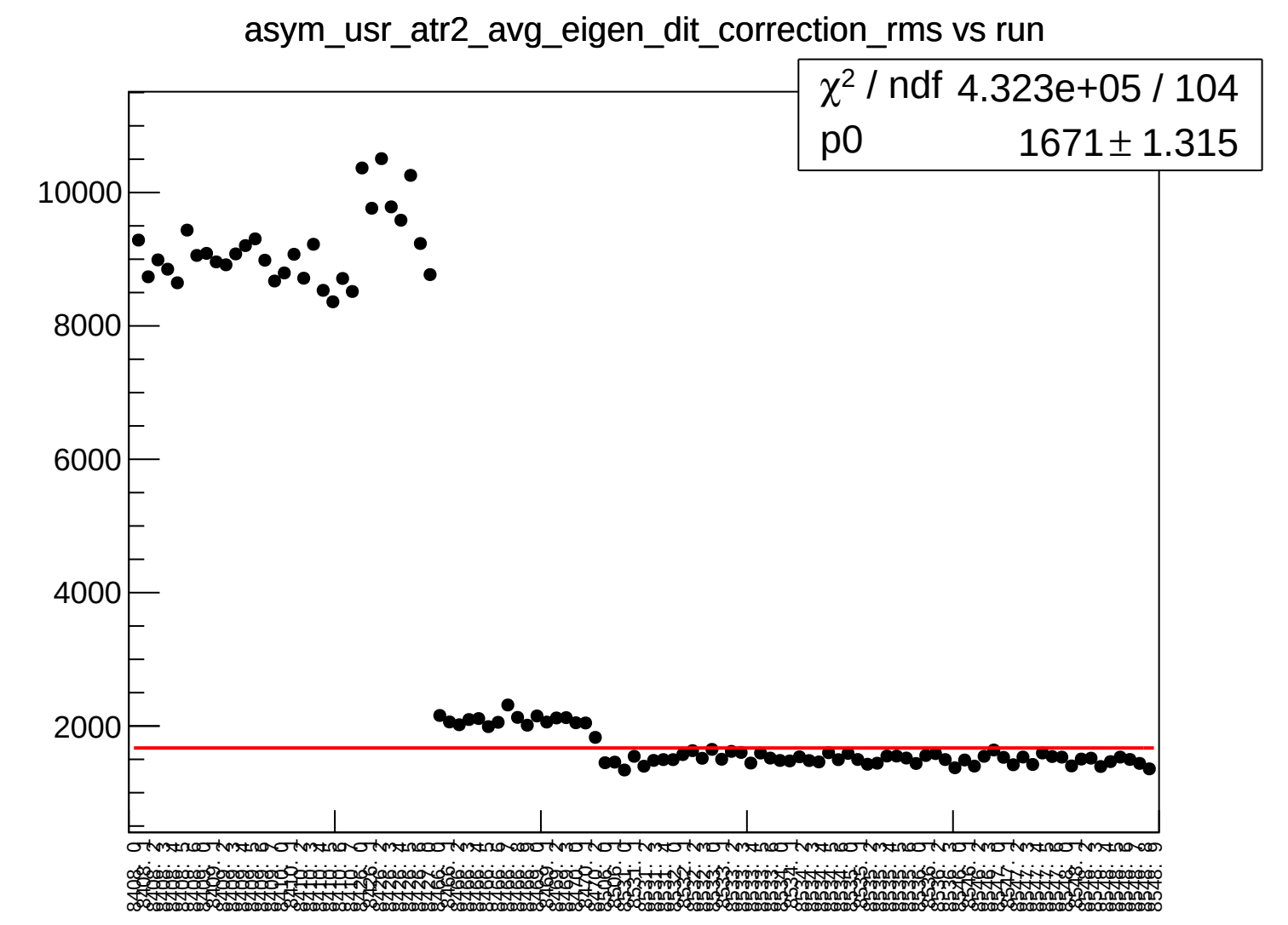

eigen_dit_asym_usr_atr2_avg_mean vs run
×10^3
χ^2 / ndf 89.39 / 104
p0 3198 ± 3024
800
600
400
200
0
−200
−400
−600
pull
Entries 105
Mean 97.99
Std Dev 0
2
1
0
−1
−2

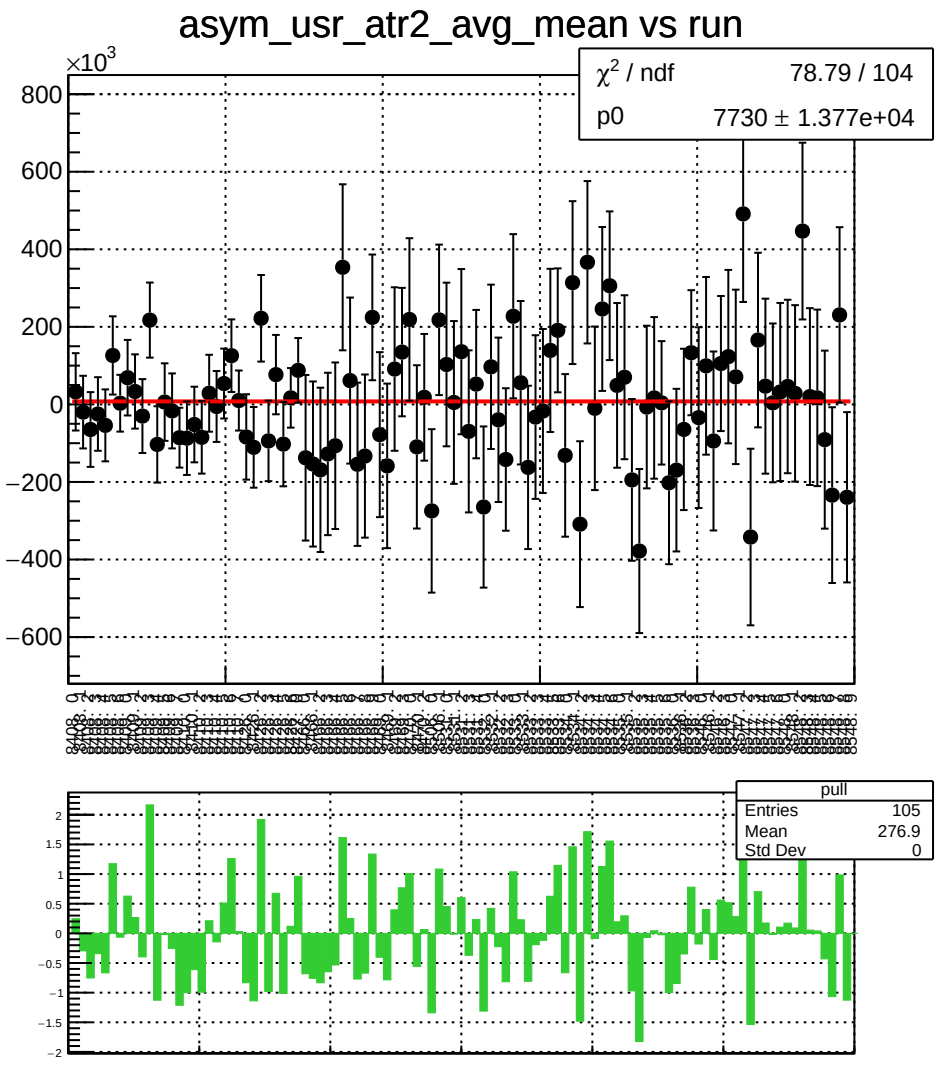

pull1D
Entries 105
Mean 0.0485
Std Dev 0.9214
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

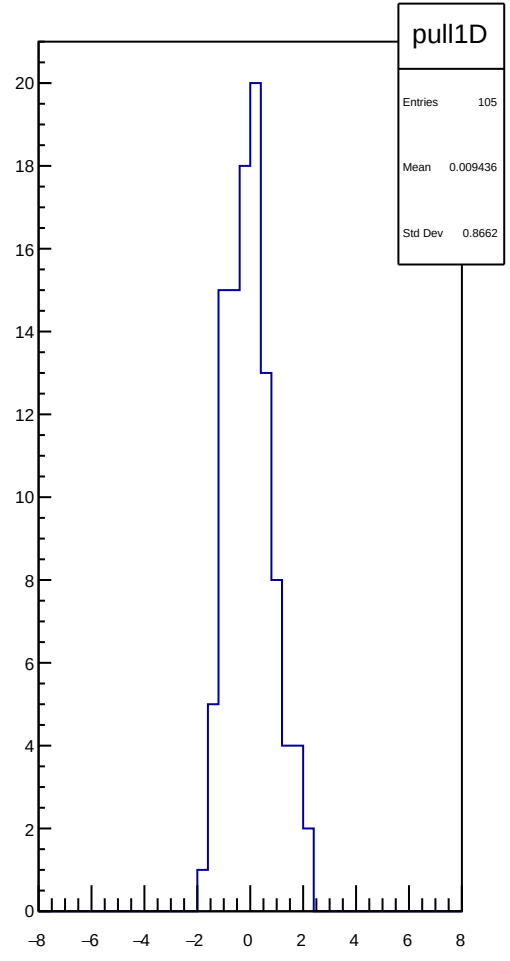

eigen_dit_asym_usr_atr2_avg_rms vs run
χ² / ndf 1.196e+06 / 104
p0 1971 ± 2.138
24000
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000

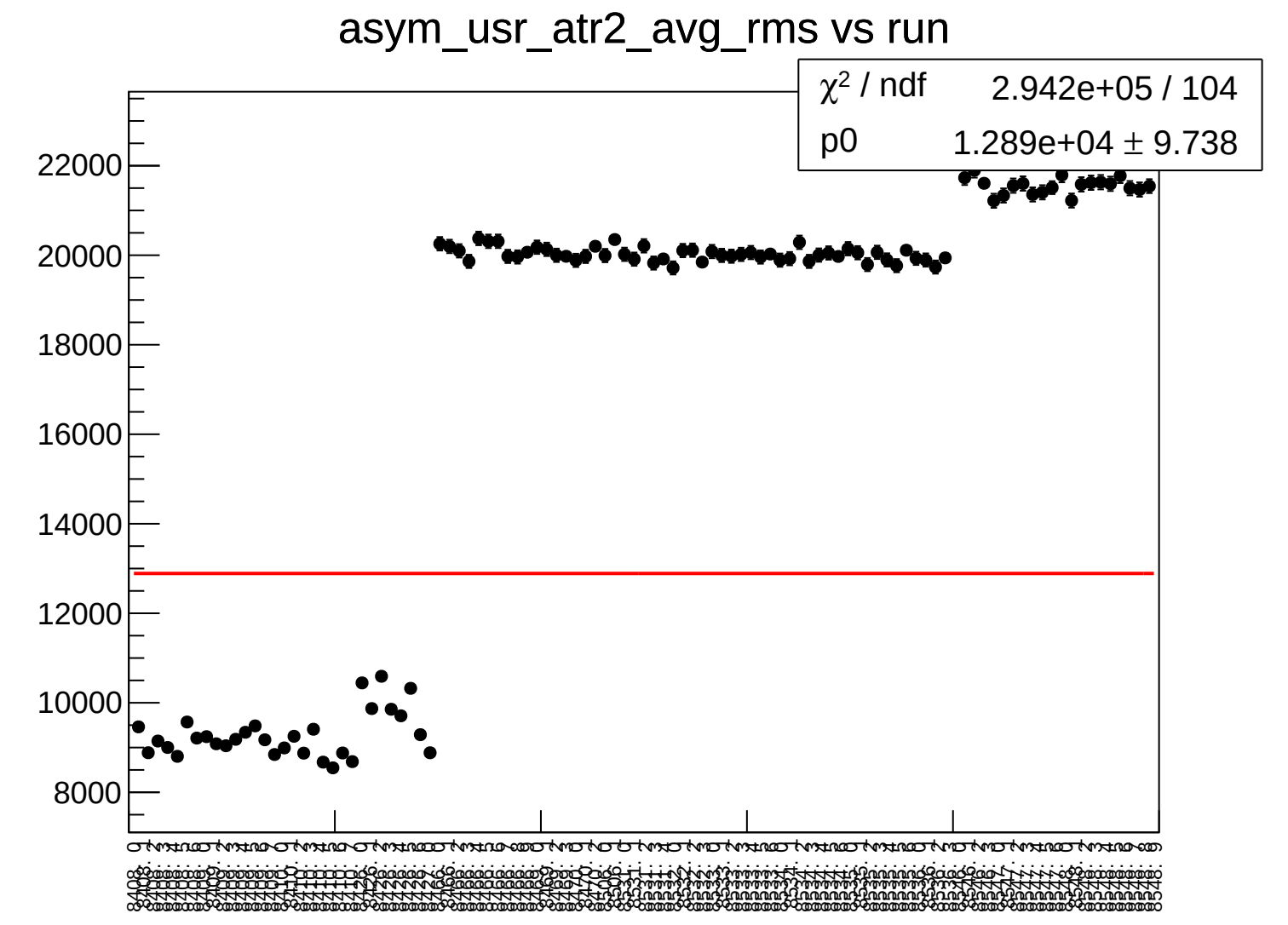

asym_usr_atr2_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 100.7 / 104
p0 3578 ± 1860
200
100
0
−100
−200
−300
pull
Entries 105
Mean −125.8
Std Dev 0
2
1
0
−1
−2

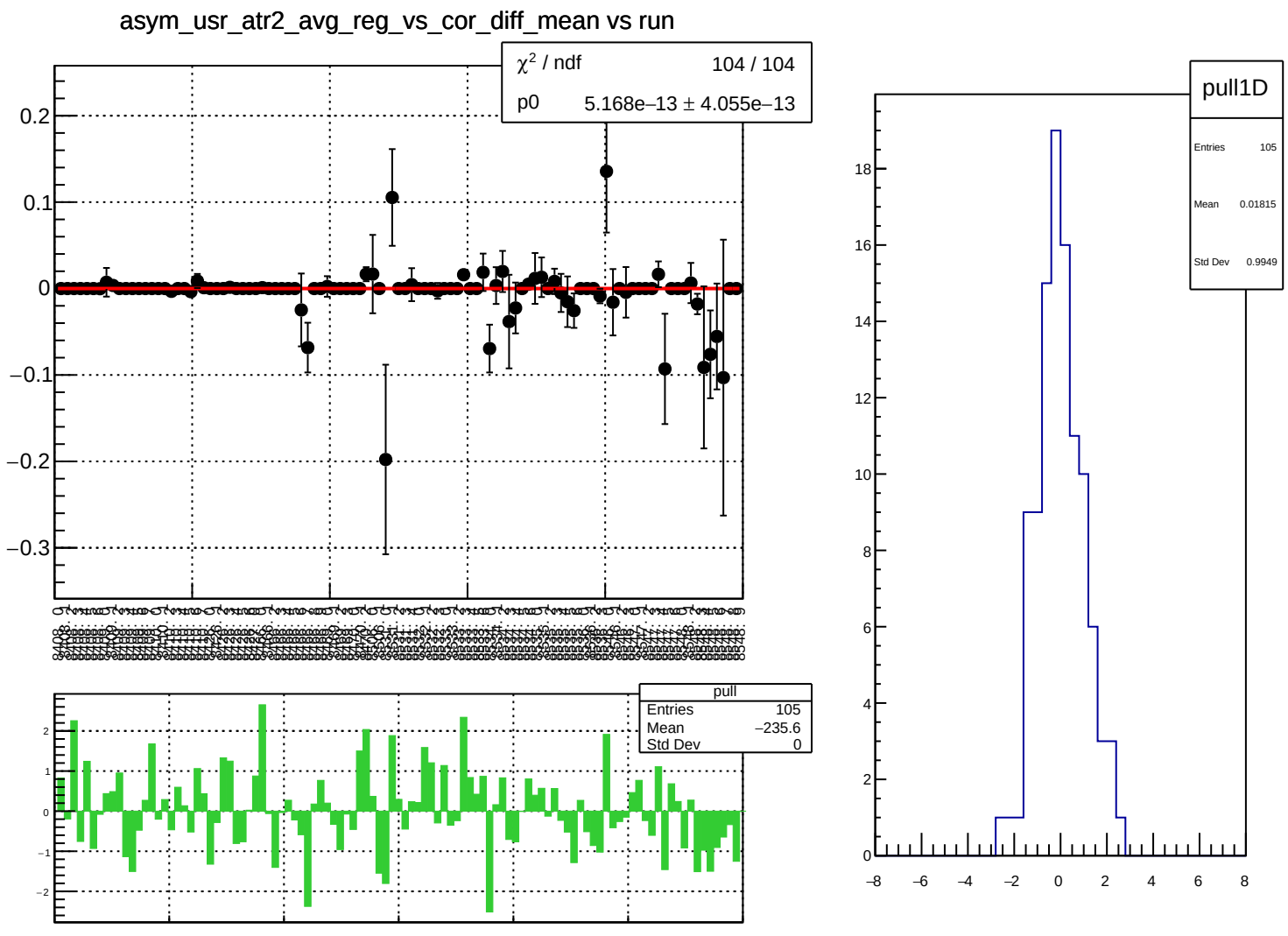

pull1D
Entries 105
Mean −0.00239
Std Dev 0.9792
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

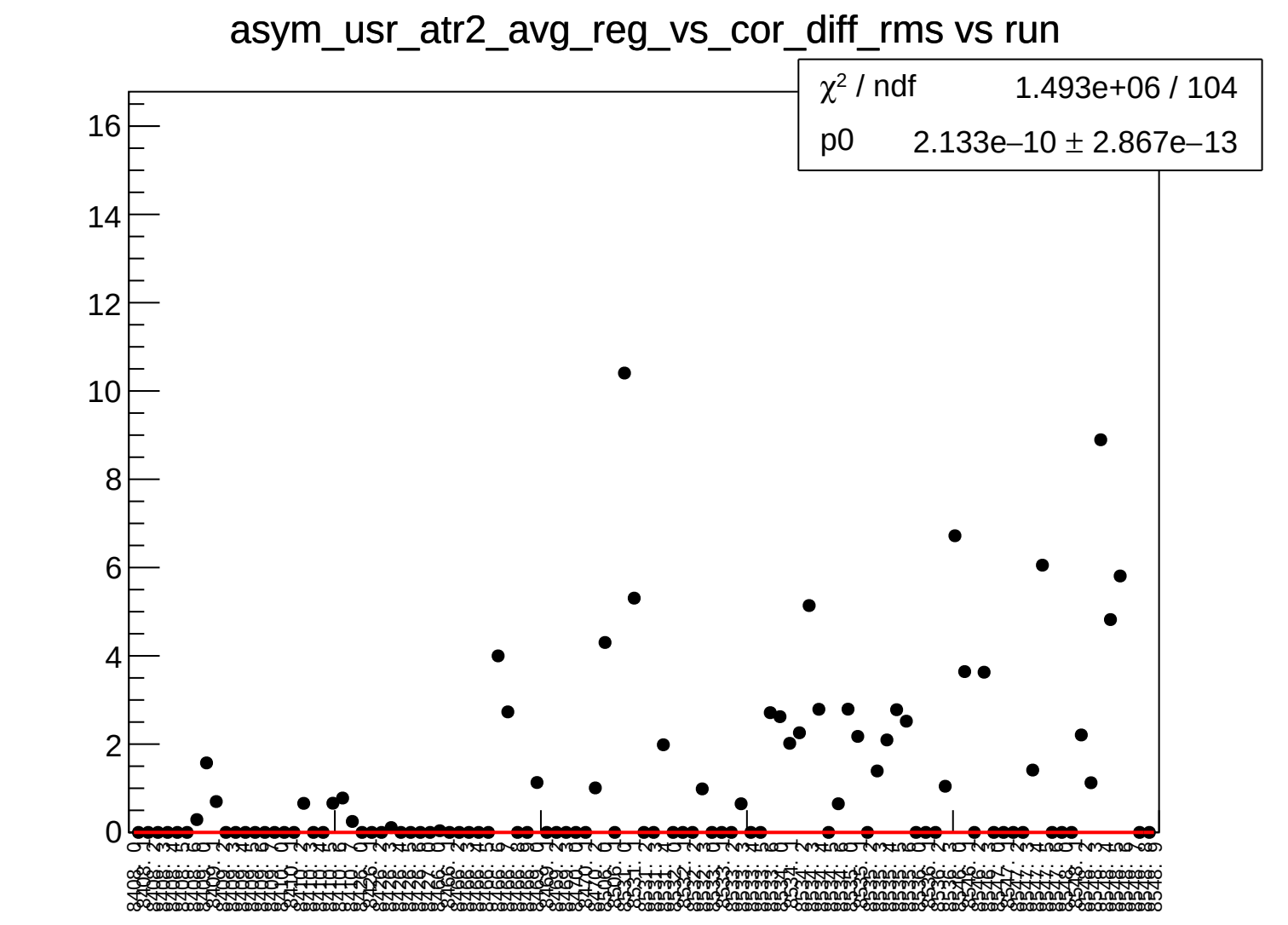

asym_usr_atr2_avg_eigen_dit_correction_rms vs run
χ² / ndf 4.323e+05 / 104
p0 1671 ± 1.315
10000
8000
6000
4000
2000

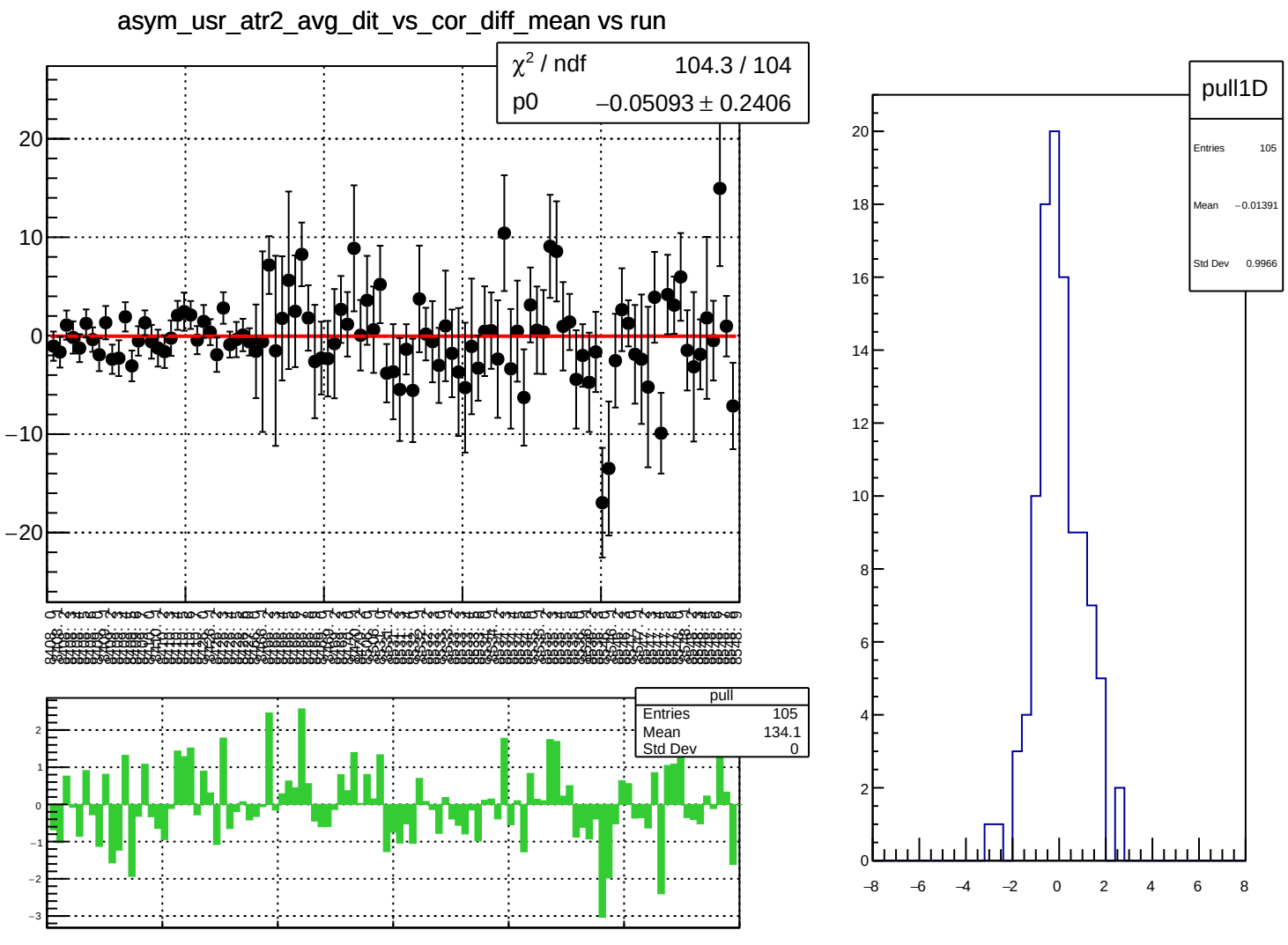

asym_usr_atr2_avg_mean vs run
×10^3
χ² / ndf 78.79 / 104
p0 7730 ± 1.377e+04
pull
Entries 105
Mean 276.9
Std Dev 0

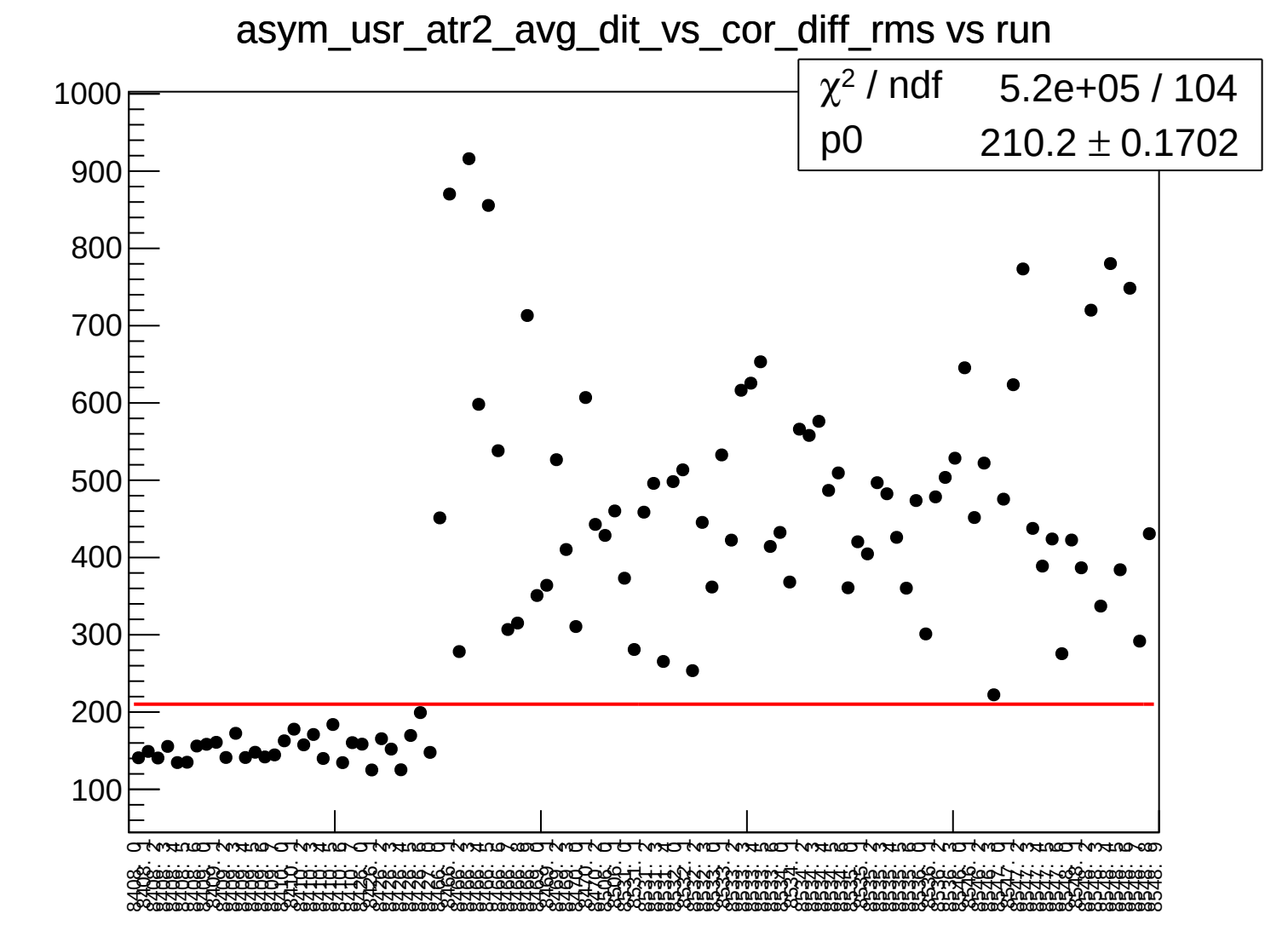

pull1D
Entries 105
Mean 0.009436
Std Dev 0.8662

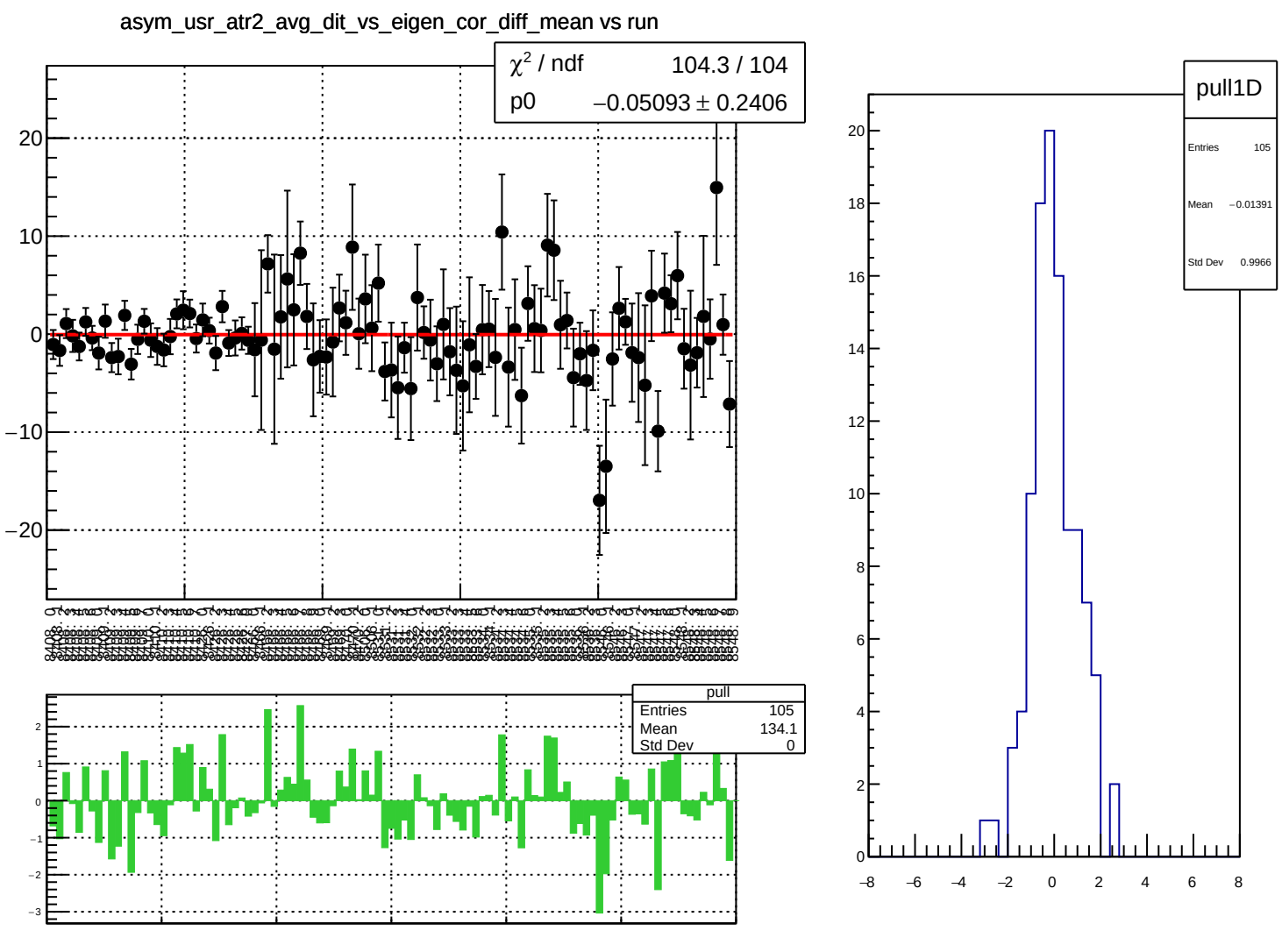

asym_usr_atr2_avg_rms vs run
χ² / ndf 2.942e+05 / 104
p0 1.289e+04 ± 9.738
22000
20000
18000
16000
14000
12000
10000
8000

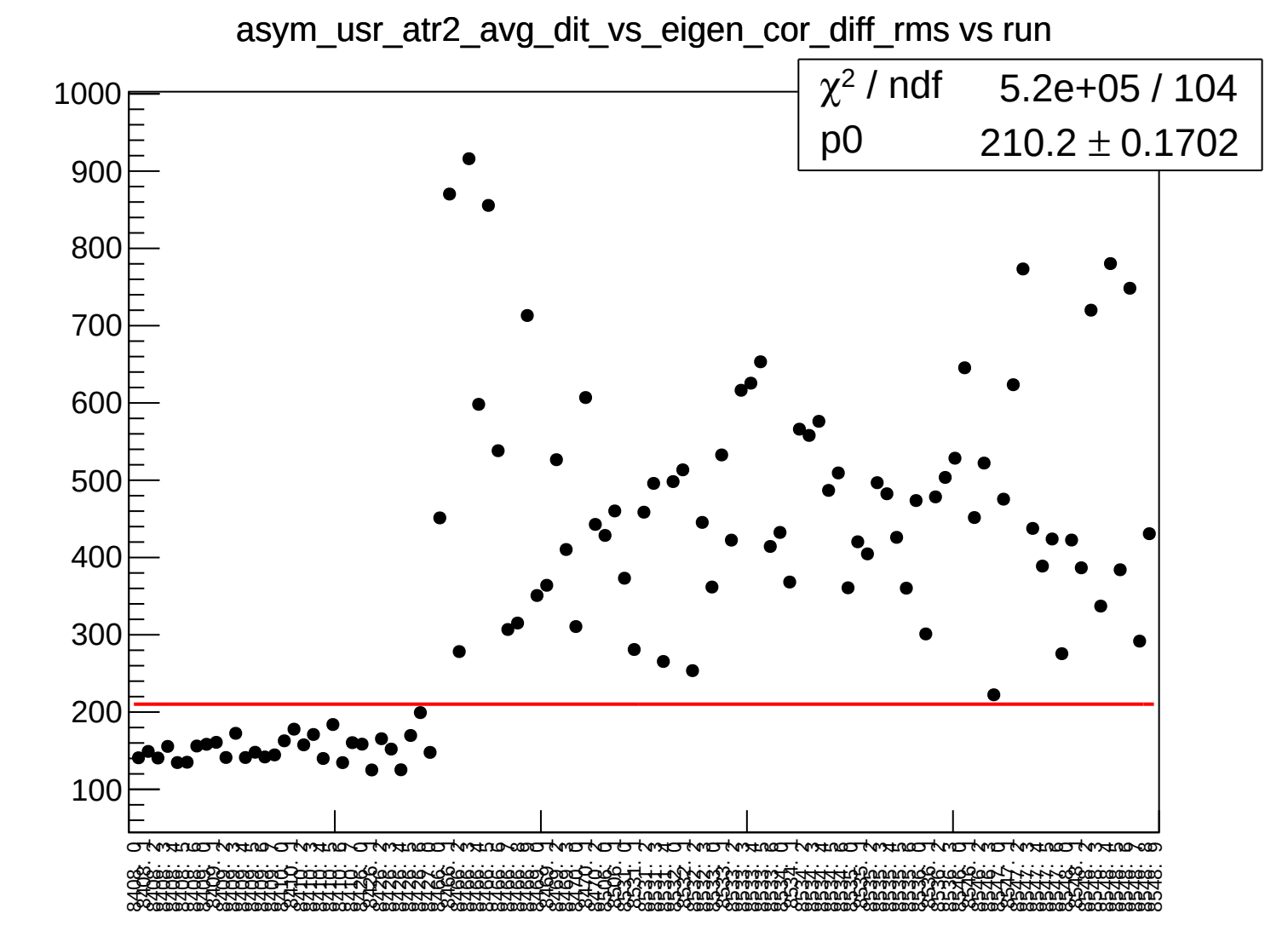

asym_usr_atr2_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 104 / 104
p0 5.168e−13 ± 4.055e−13
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 105
Mean −235.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.01815
Std Dev 0.9949
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

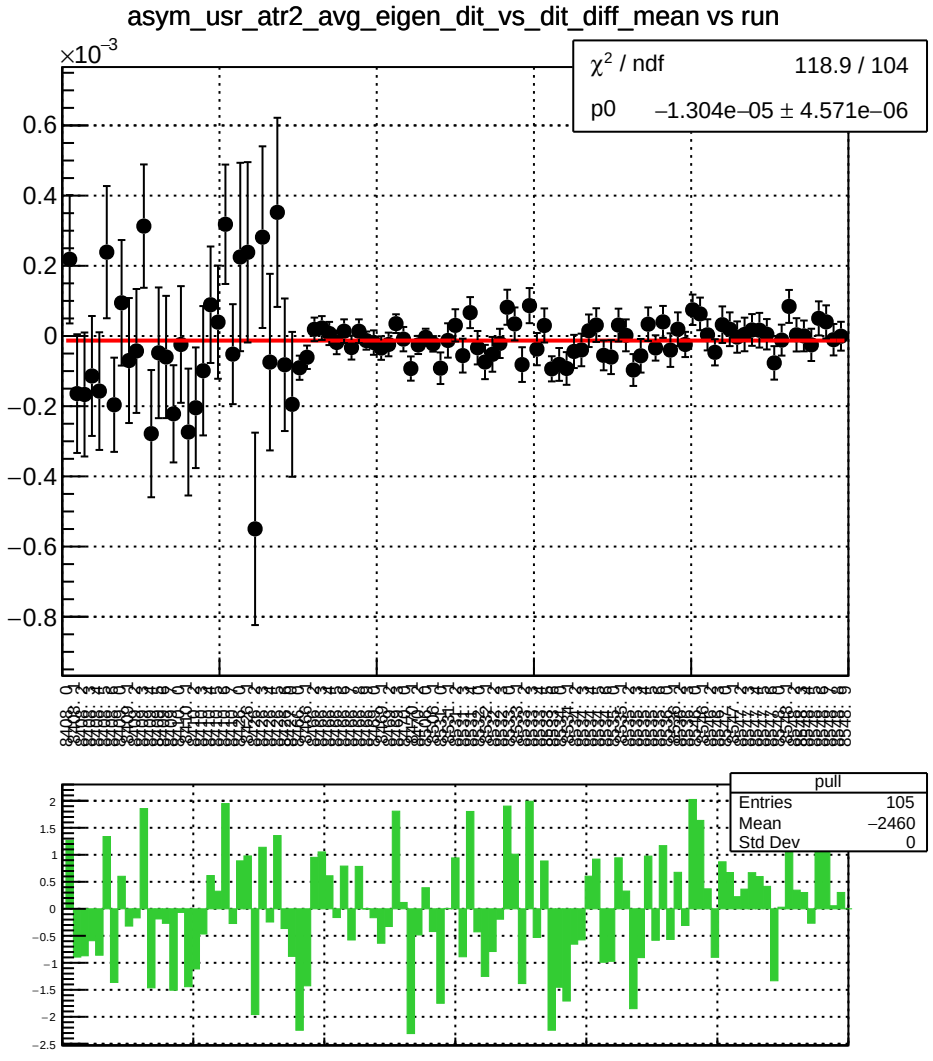

asym_usr_atr2_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.493e+06 / 104
p0 2.133e−10 ± 2.867e−13
16
14
12
10
8
6
4
2
0

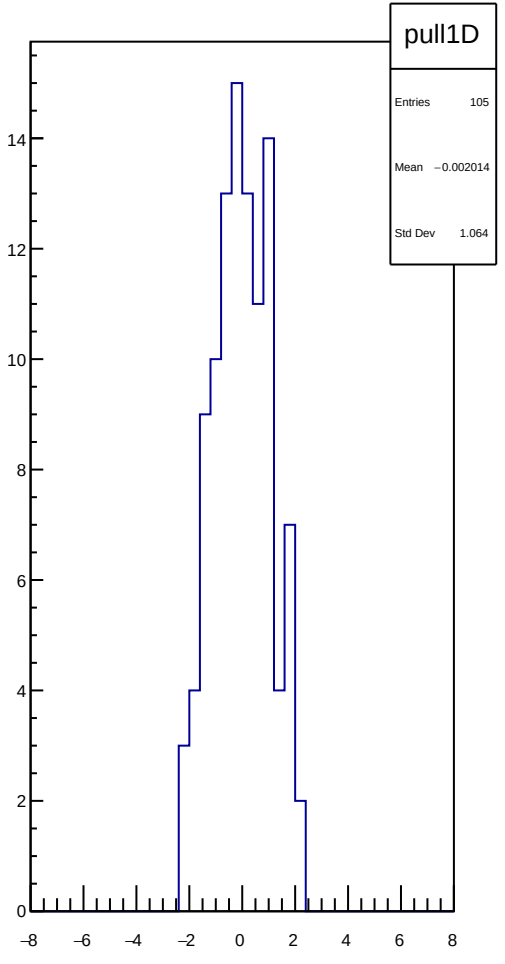

asym_usr_atr2_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 104.3 / 104
p0 −0.05093 ± 0.2406
20
10
0
−10
−20
pull
Entries 105
Mean 134.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 105
Mean −0.01391
Std Dev 0.9966
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

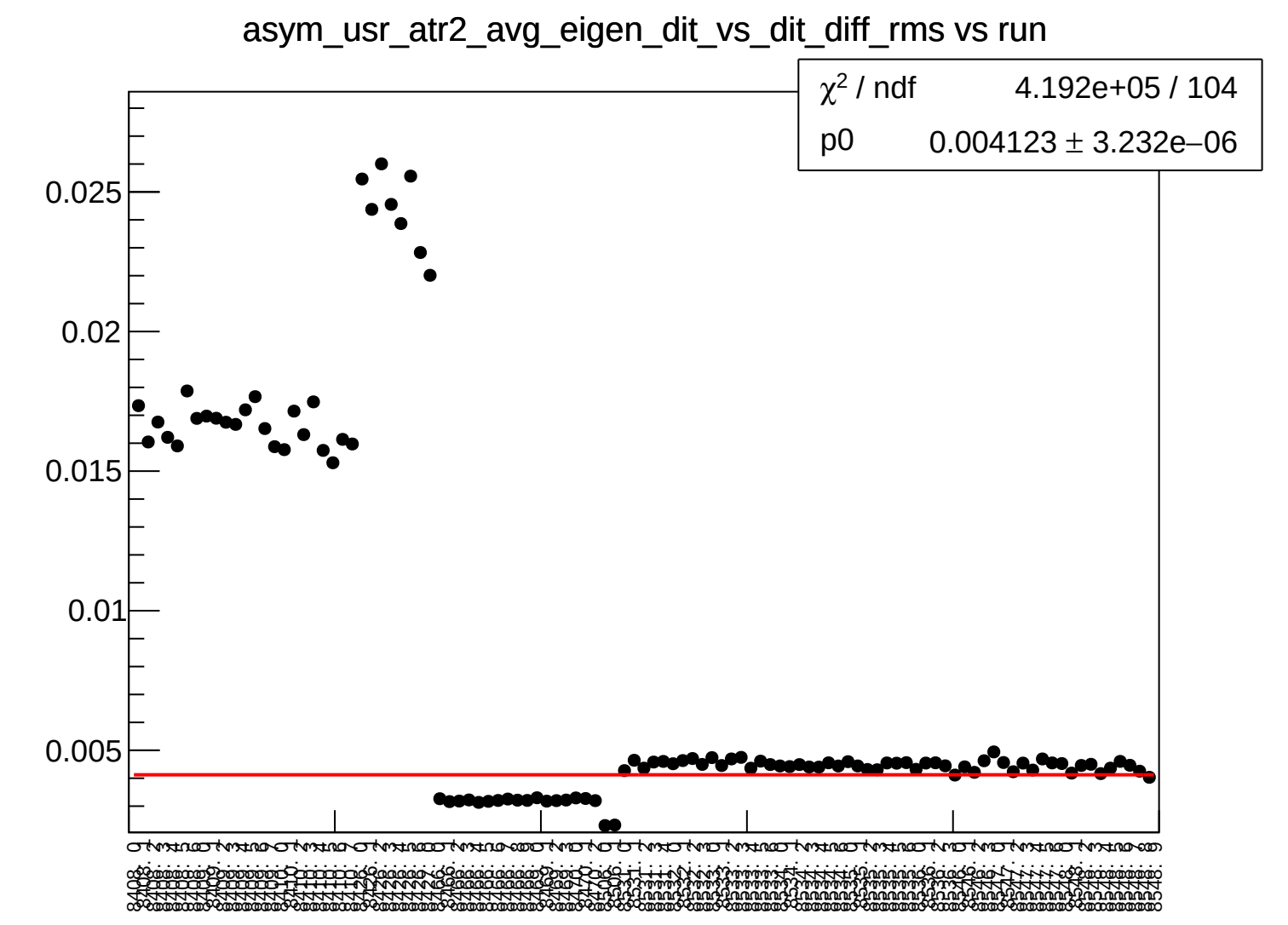

asym_usr_atr2_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 5.2e+05 / 104
p0 210.2 ± 0.1702
1000
900
800
700
600
500
400
300
200
100

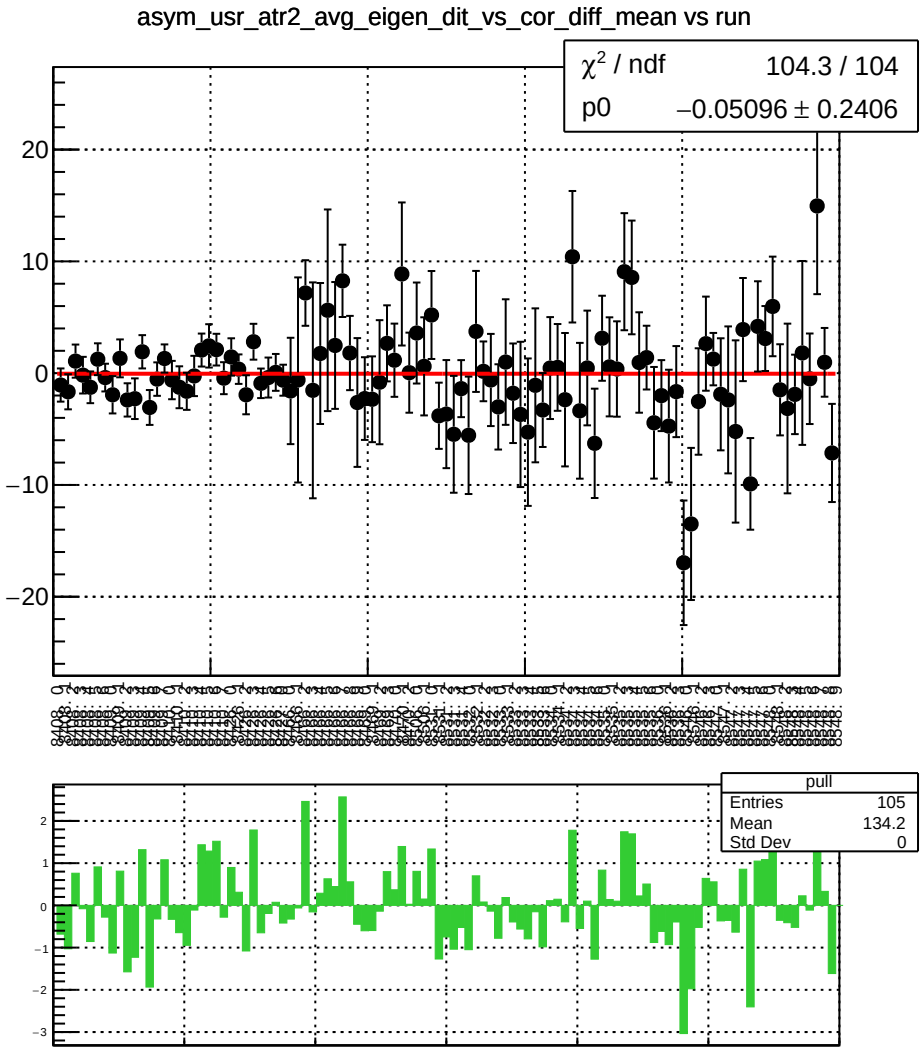

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.3 / 104
p0 −0.05093 ± 0.2406
pull
Entries 105
Mean 134.1
Std Dev 0
pull1D
Entries 105
Mean −0.01391
Std Dev 0.9966

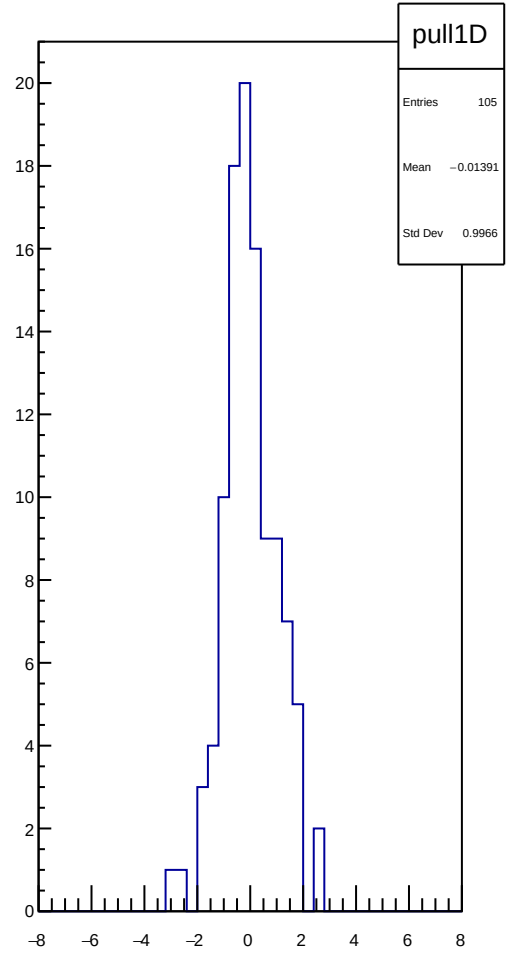

asym_usr_atr2_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.2e+05 / 104
p0 210.2 ± 0.1702
1000
900
800
700
600
500
400
300
200
100

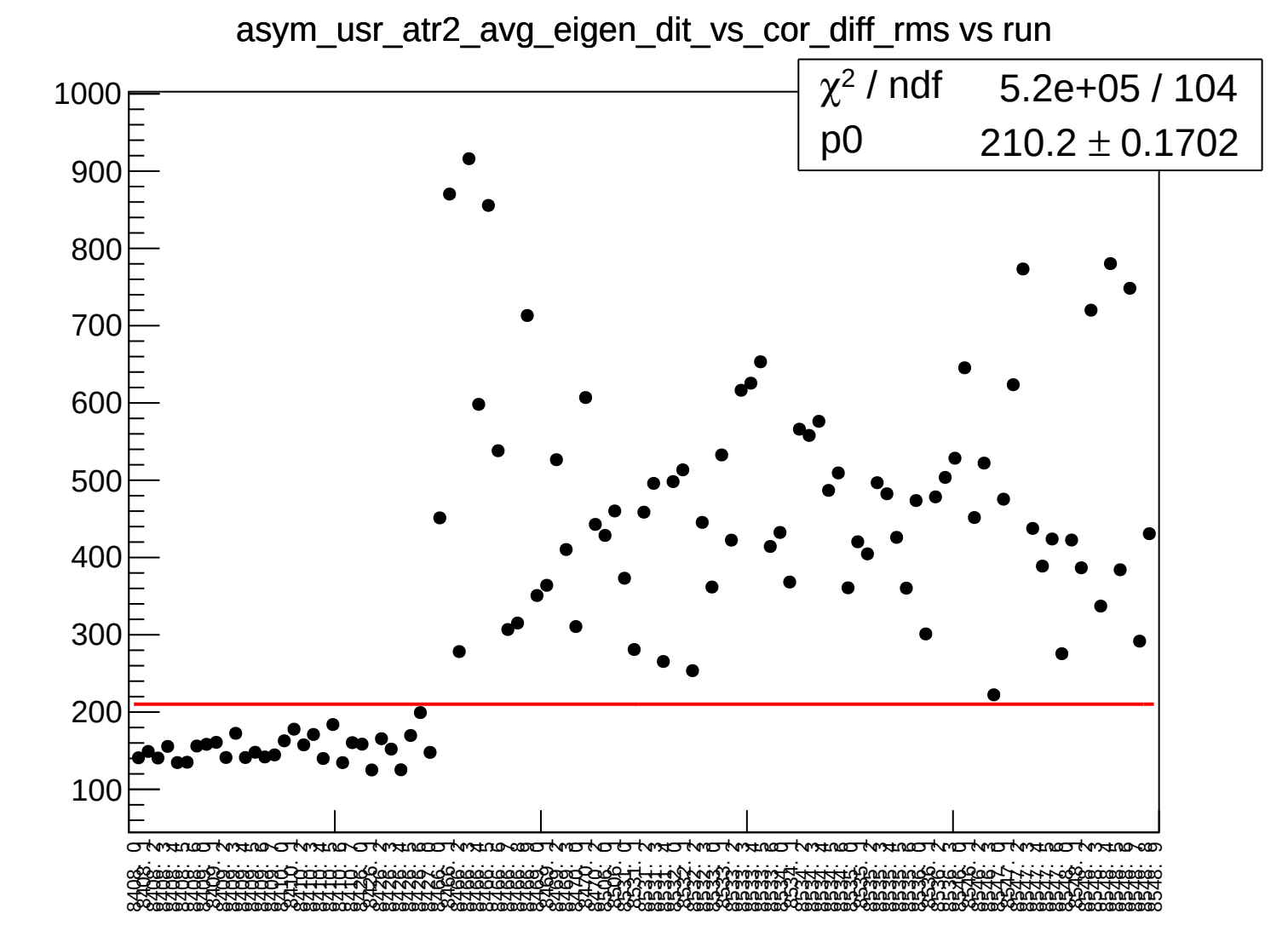

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 118.9 / 104
p0 −1.304e−05 ± 4.571e−06
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull
Entries 105
Mean −2460
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

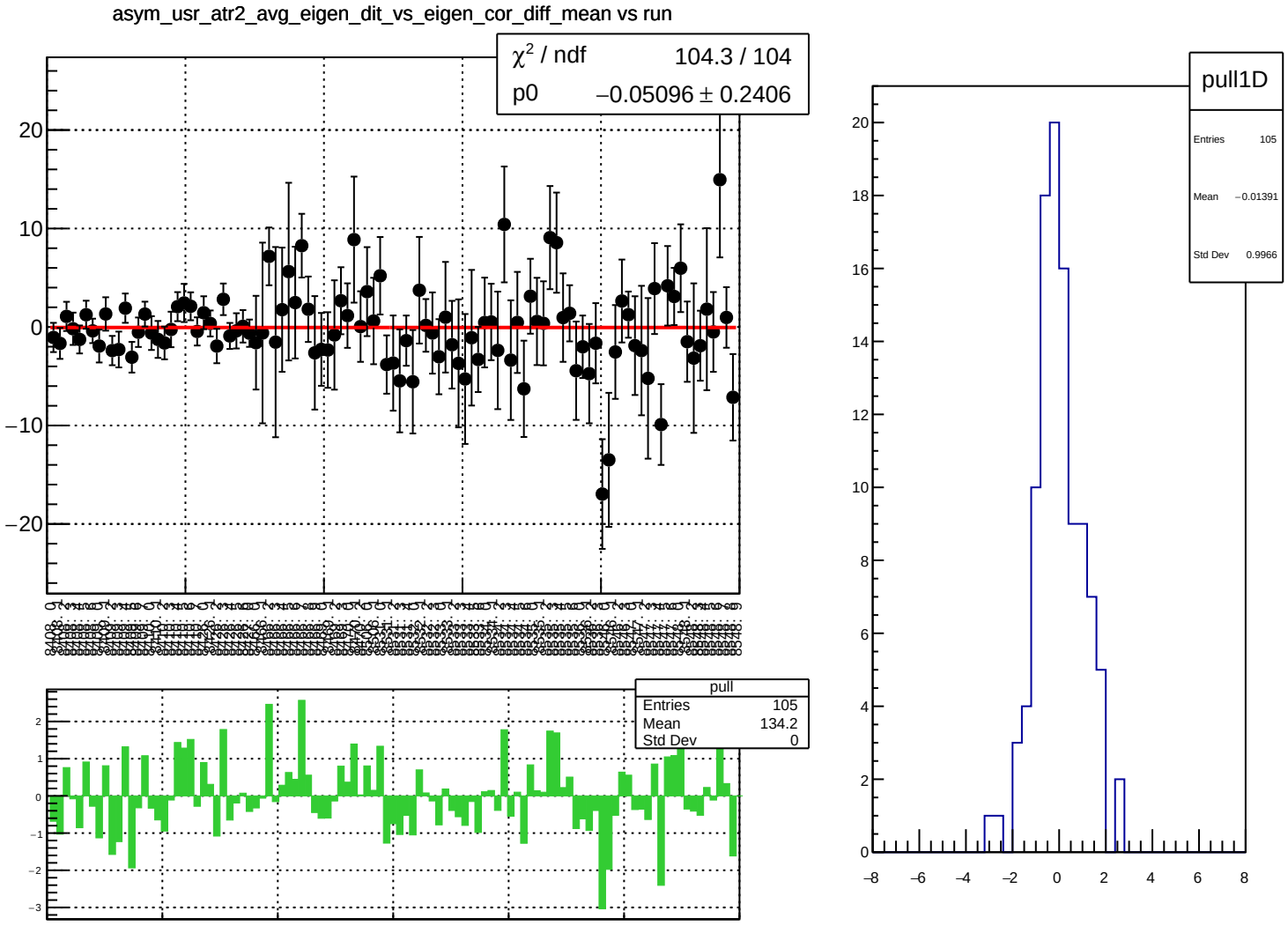

pull1D
Entries 105
Mean −0.002014
Std Dev 1.064
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

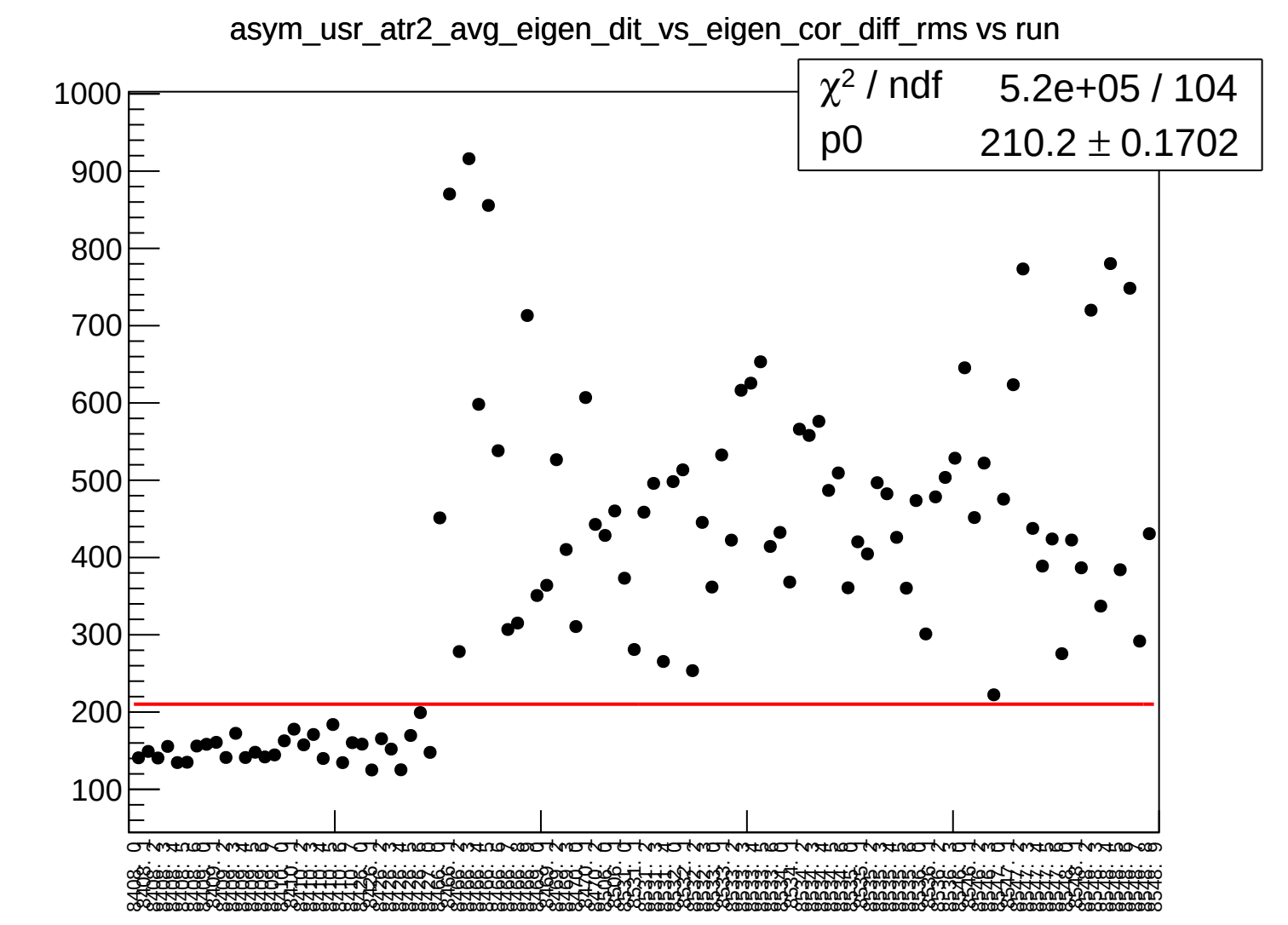

asym_usr_atr2_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.192e+05 / 104
p0 0.004123 ± 3.232e−06
0.025
0.02
0.015
0.01
0.005

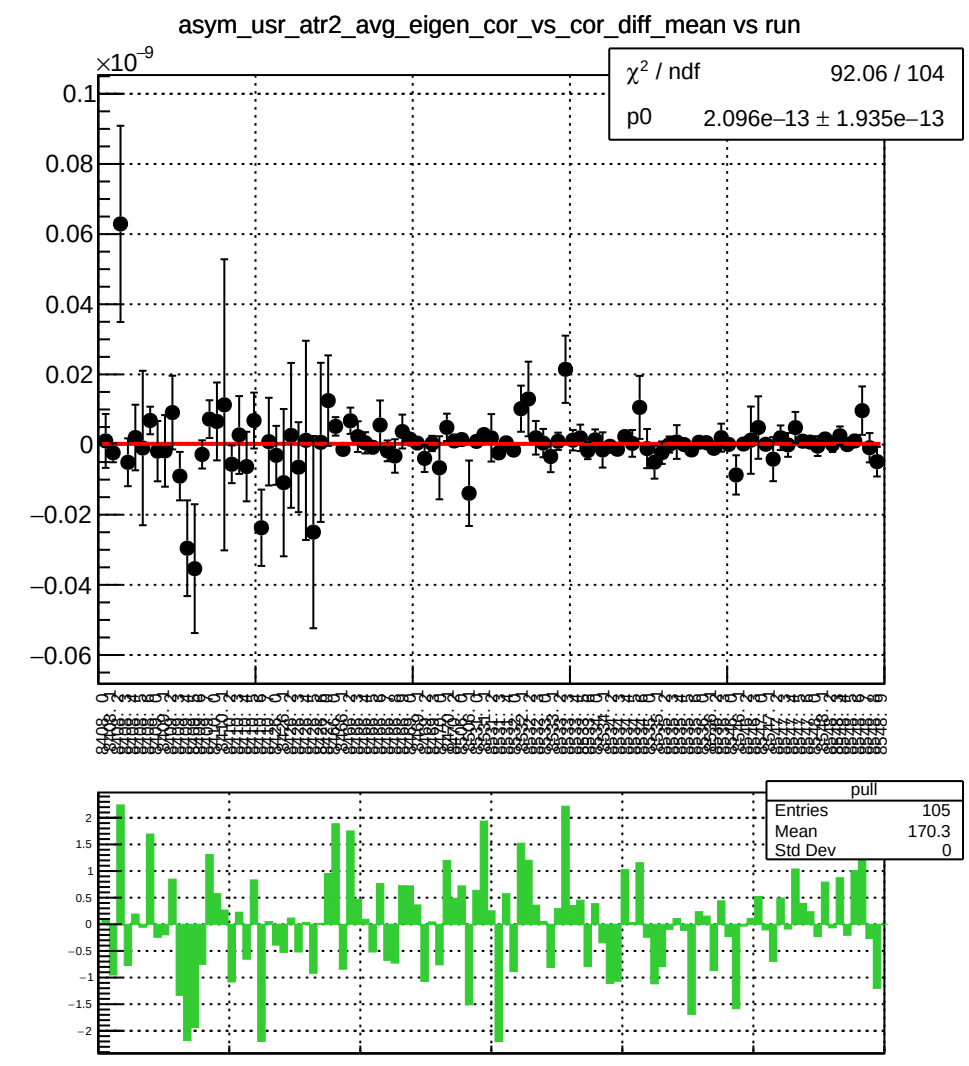

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 104.3 / 104
p0 −0.05096 ± 0.2406
pull
Entries 105
Mean 134.2
Std Dev 0

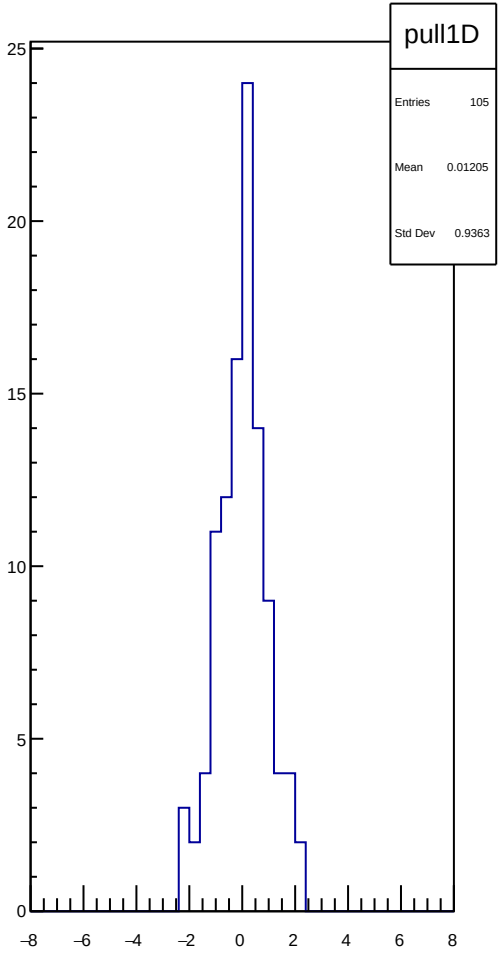

pull1D
Entries 105
Mean −0.01391
Std Dev 0.9966

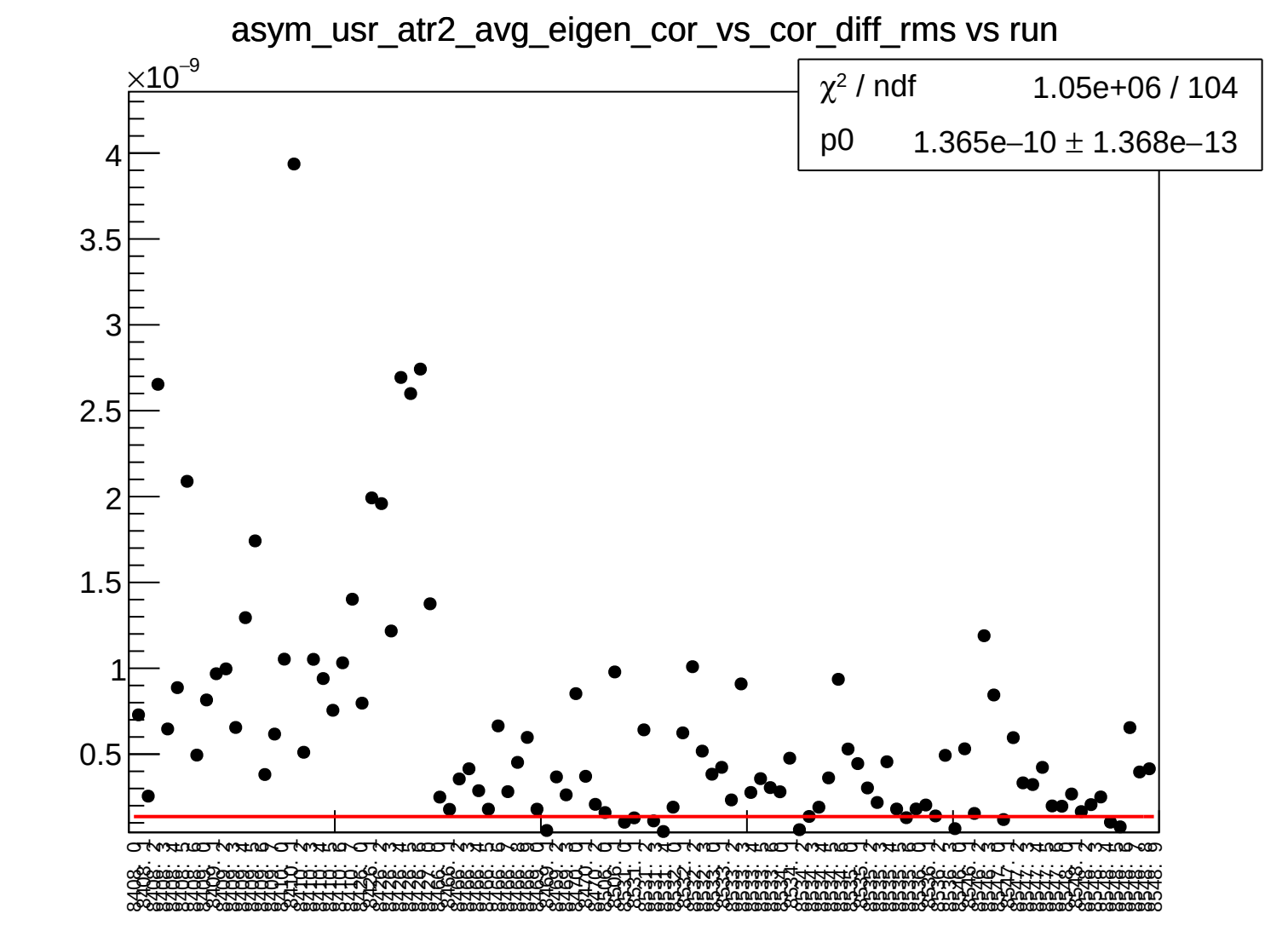

asym_usr_atr2_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.2e+05 / 104
p0 210.2 ± 0.1702
1000
900
800
700
600
500
400
300
200
100

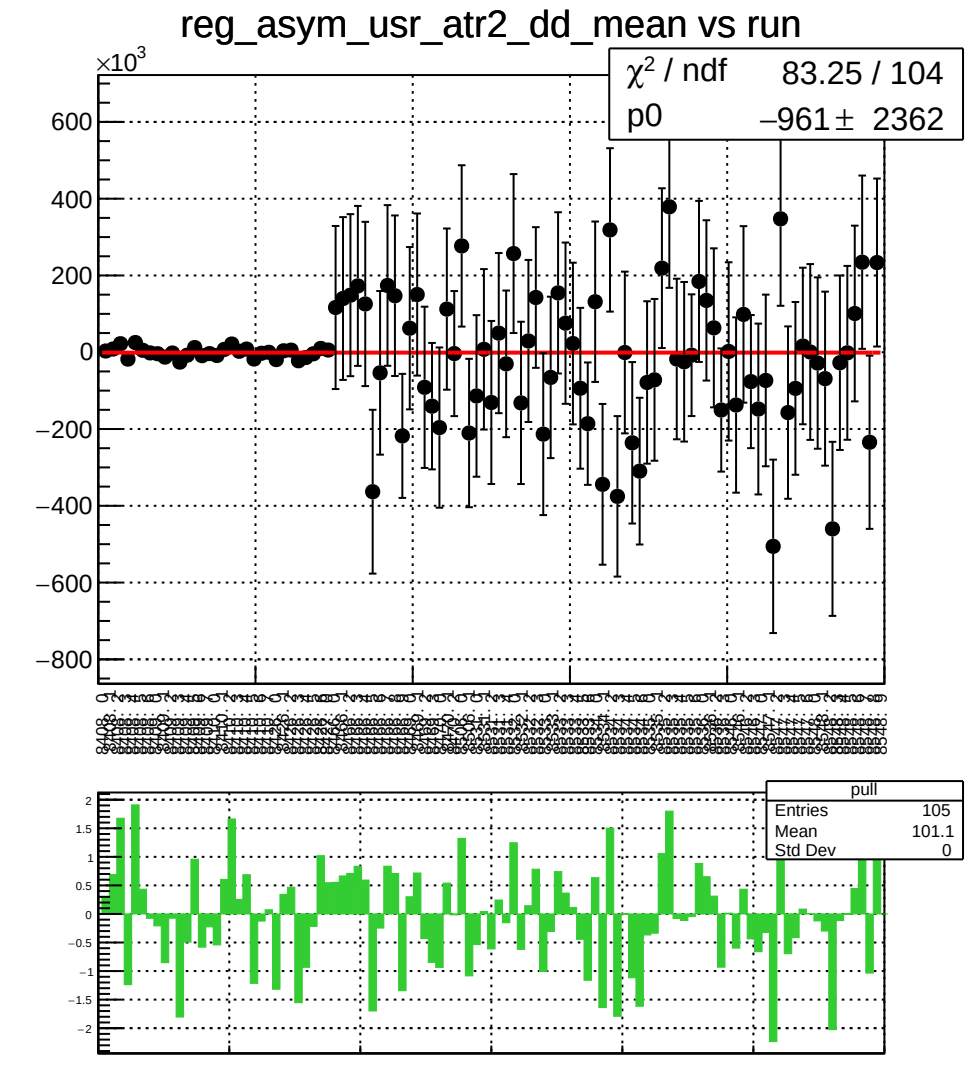

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.3 / 104
p0 −0.05096 ± 0.2406
20
10
0
−10
−20
pull
Entries 105
Mean 134.2
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 105
Mean −0.01391
Std Dev 0.9966
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

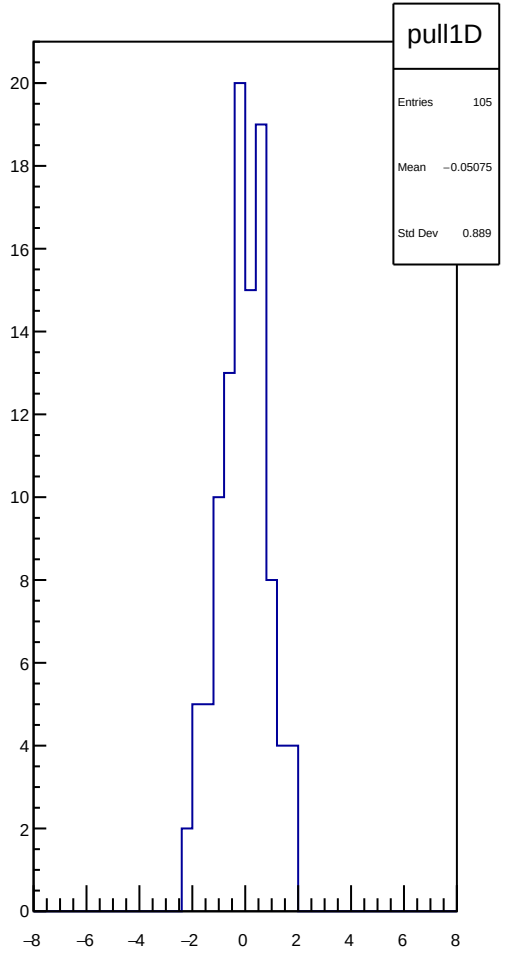

asym_usr_atr2_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.2e+05 / 104
p0 210.2 ± 0.1702
1000
900
800
700
600
500
400
300
200
100

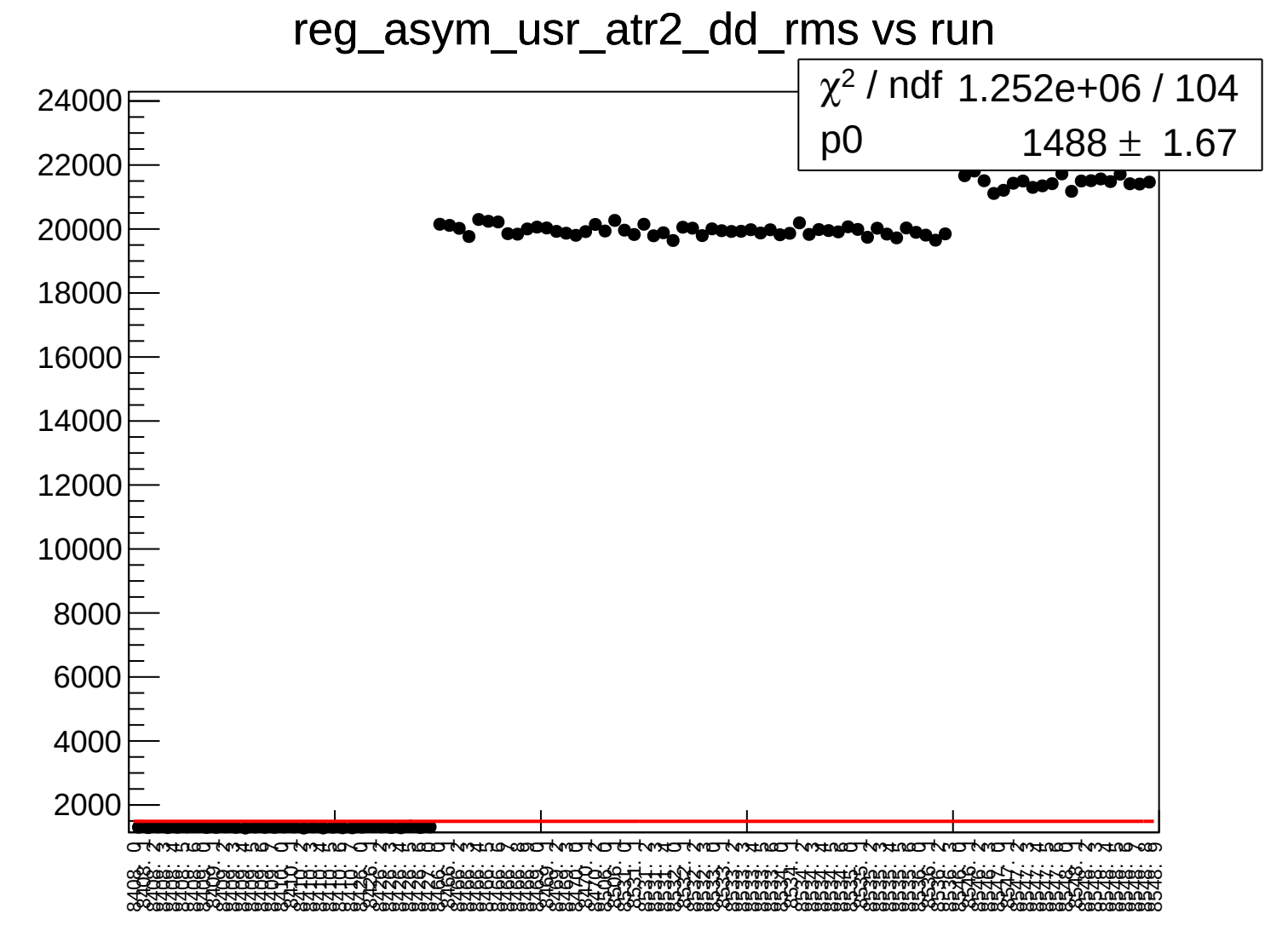

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 92.06 / 104
p0 2.096e−13 ± 1.935e−13
pull
Entries 105
Mean 170.3
Std Dev 0

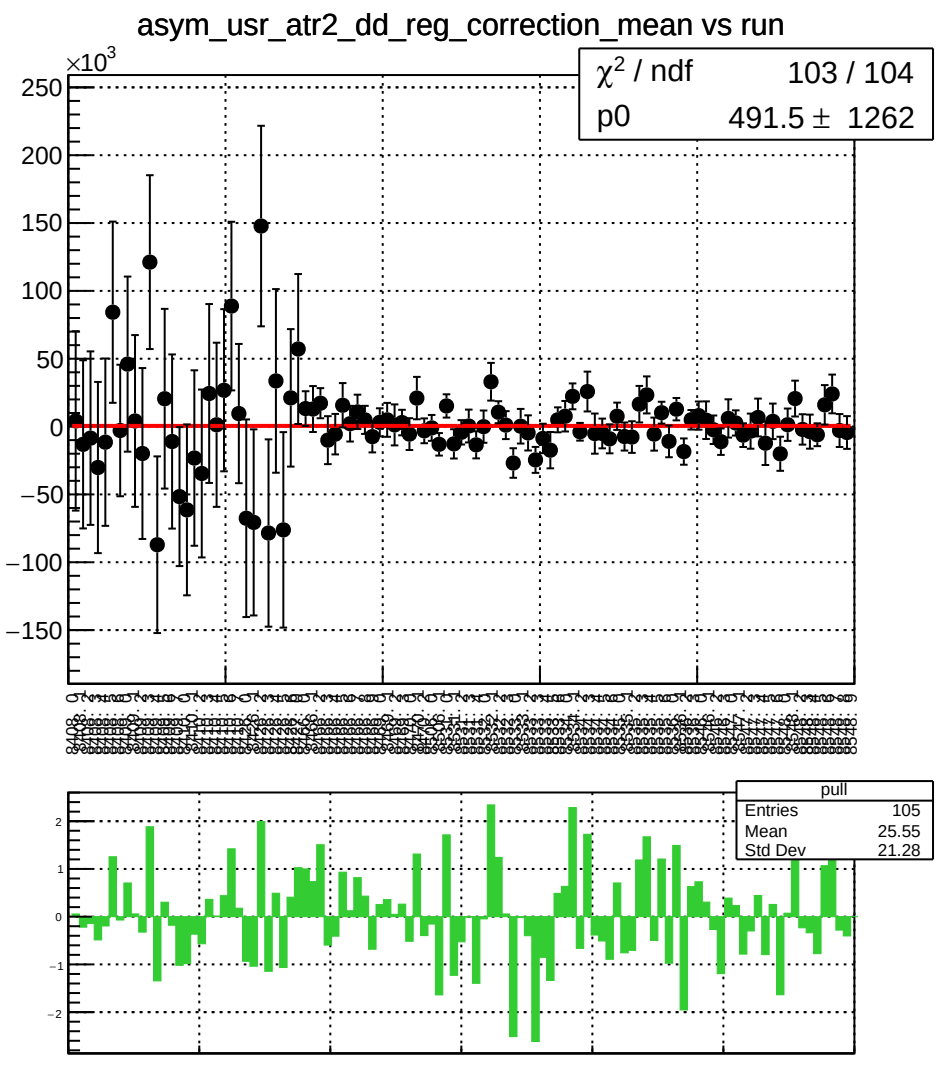

pull1D
Entries 105
Mean 0.01205
Std Dev 0.9363

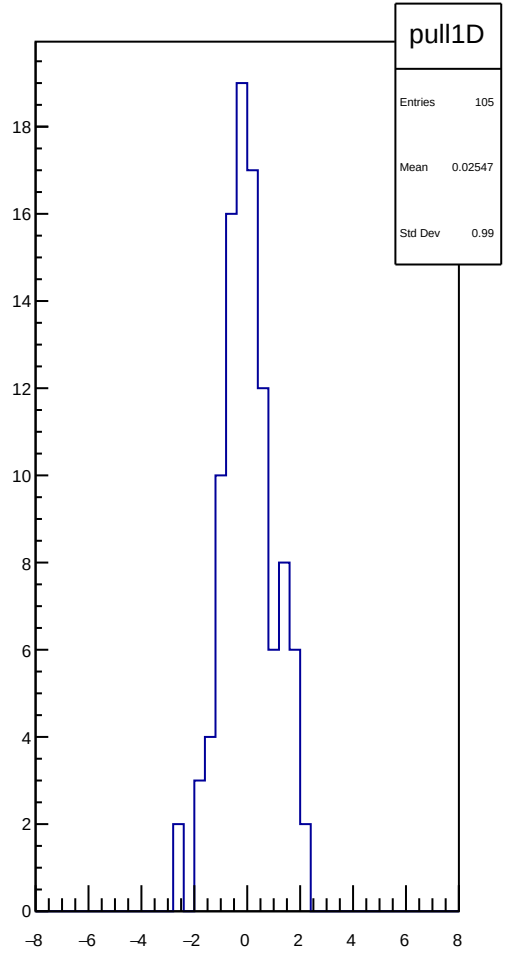

asym_usr_atr2_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.05e+06 / 104
p0 1.365e−10 ± 1.368e−13
4
3.5
3
2.5
2
1.5
1
0.5

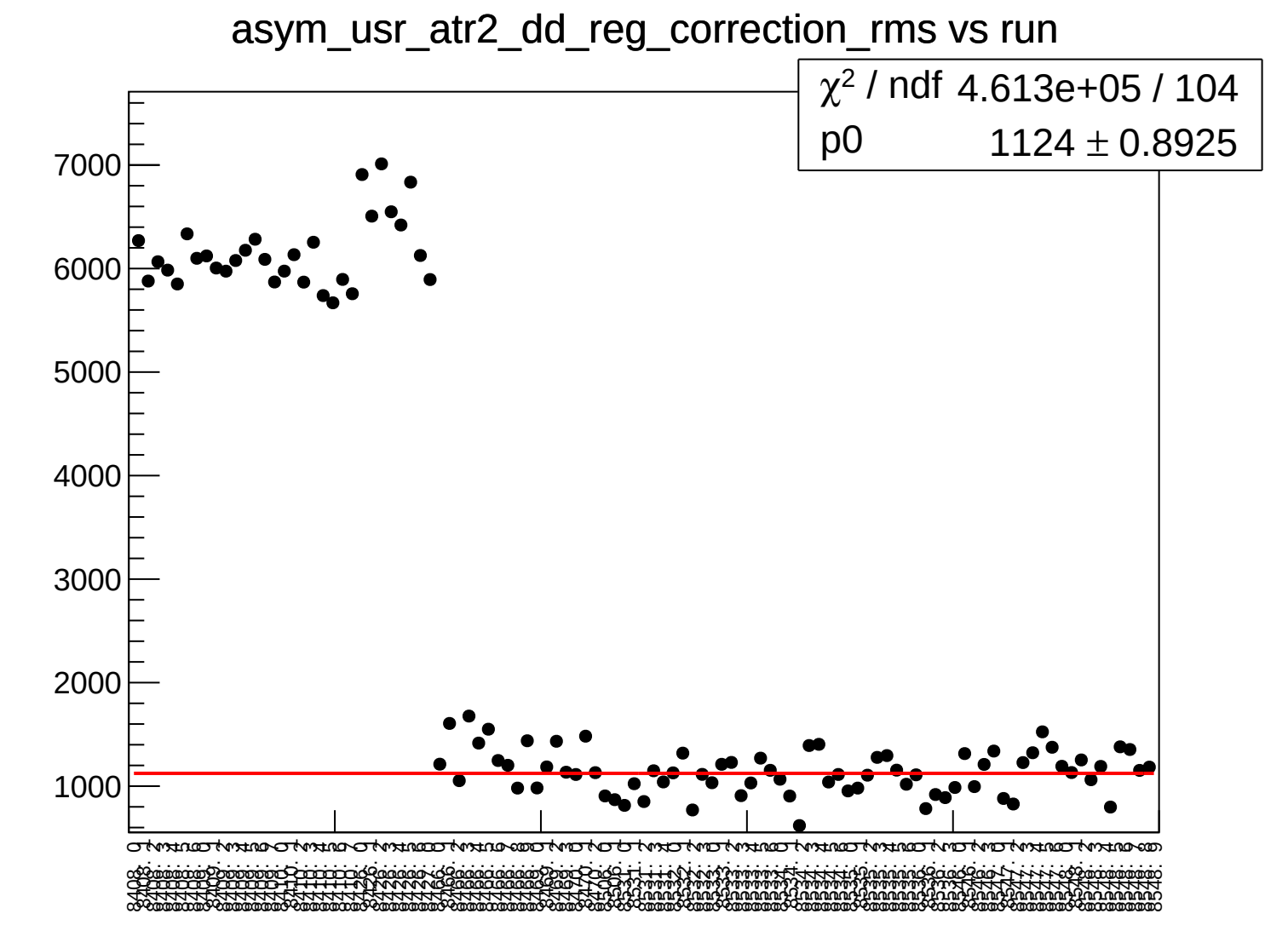

reg_asym_usr_atr2_dd_mean vs run
×10^3
χ² / ndf 83.25 / 104
p0 −961 ± 2362
600
400
200
0
−200
−400
−600
−800
pull
Entries 105
Mean 101.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

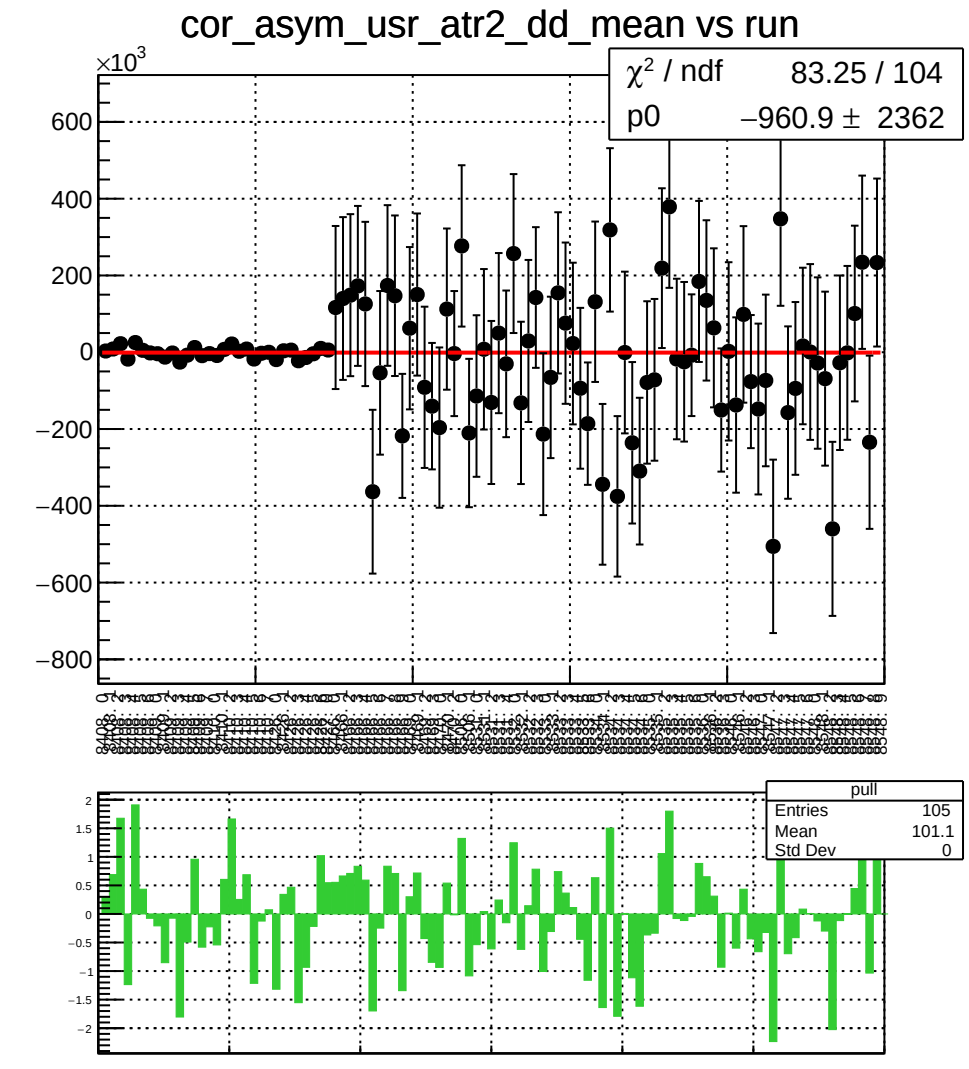

pull1D
Entries 105
Mean −0.05075
Std Dev 0.889
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

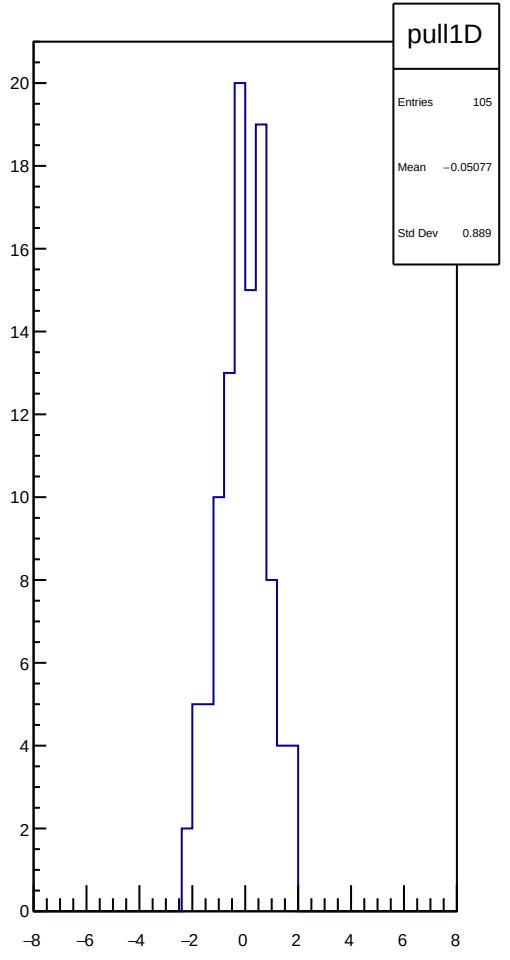

reg_asym_usr_atr2_dd_rms vs run
χ² / ndf 1.252e+06 / 104
p0 1488 ± 1.67
24000
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000

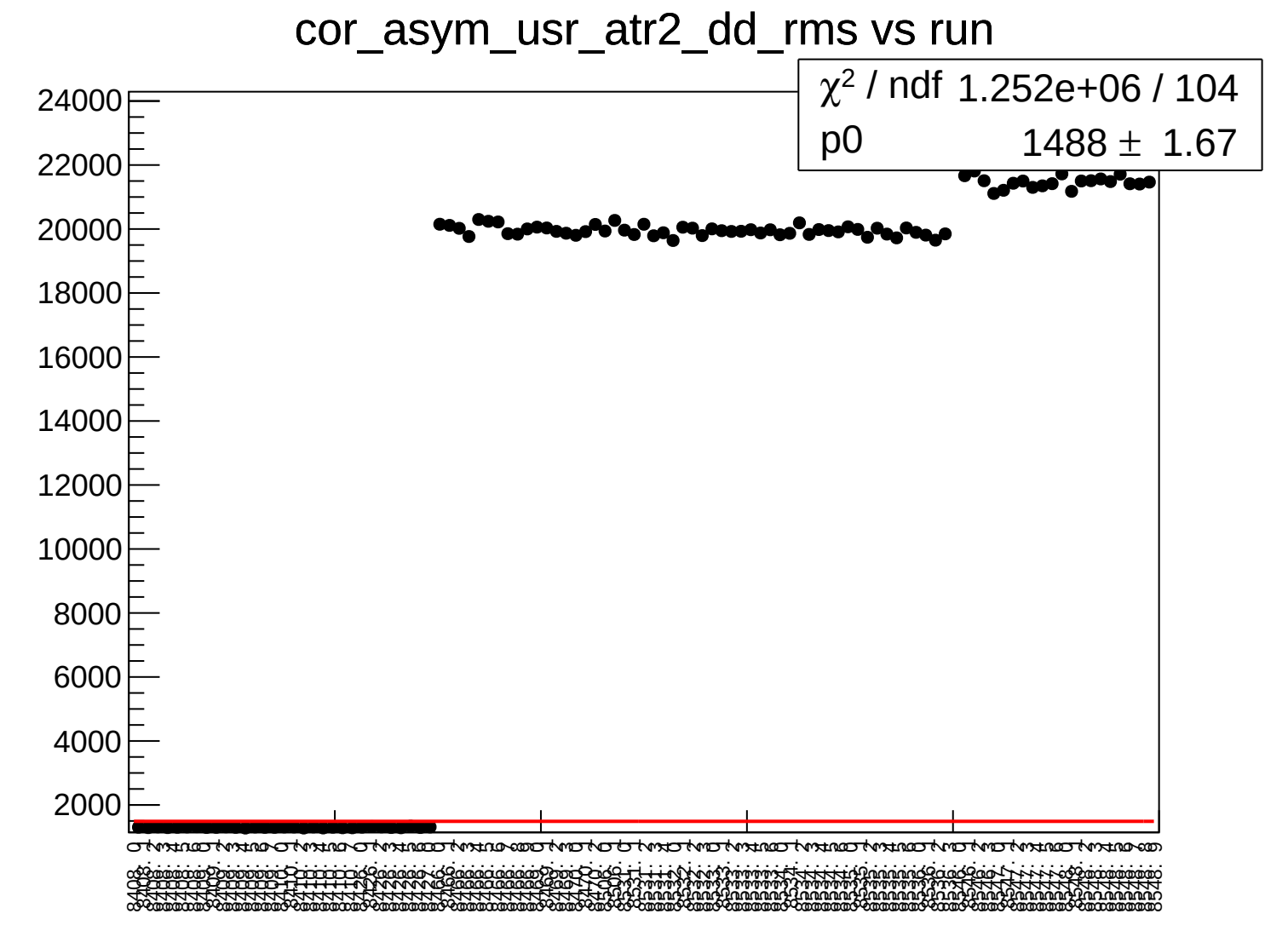

asym_usr_atr2_dd_reg_correction_mean vs run
×10^3
χ² / ndf 103 / 104
p0 491.5 ± 1262
pull
Entries 105
Mean 25.55
Std Dev 21.28

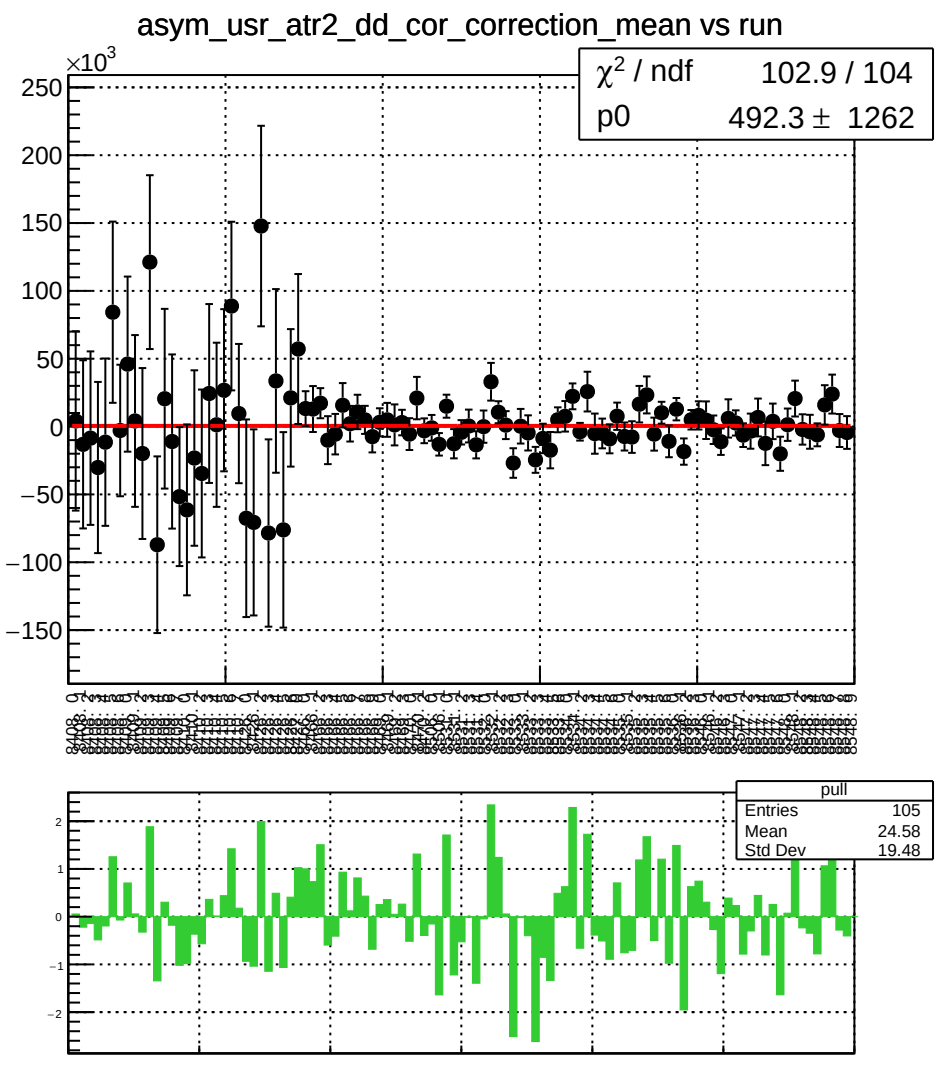

pull1D
Entries 105
Mean 0.02547
Std Dev 0.99

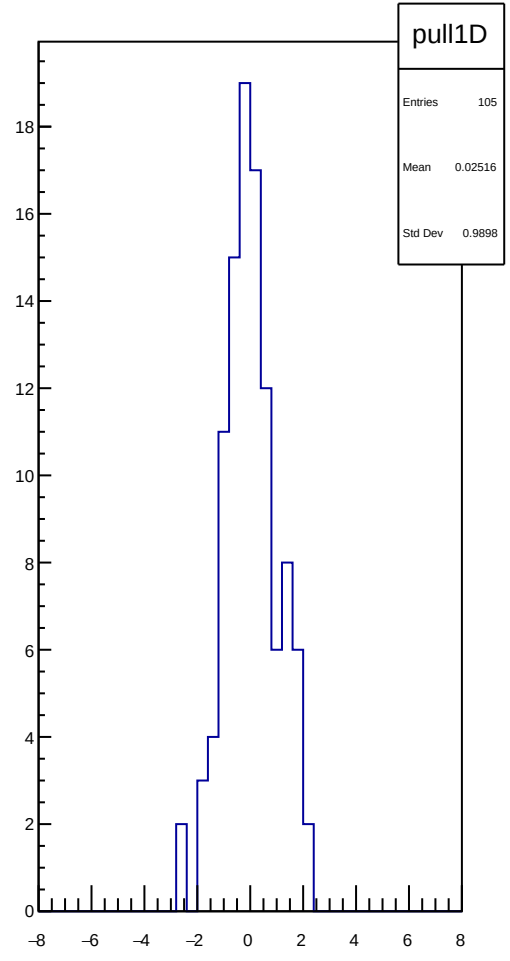

asym_usr_atr2_dd_reg_correction_rms vs run
χ² / ndf 4.613e+05 / 104
p0 1124 ± 0.8925
7000
6000
5000
4000
3000
2000
1000

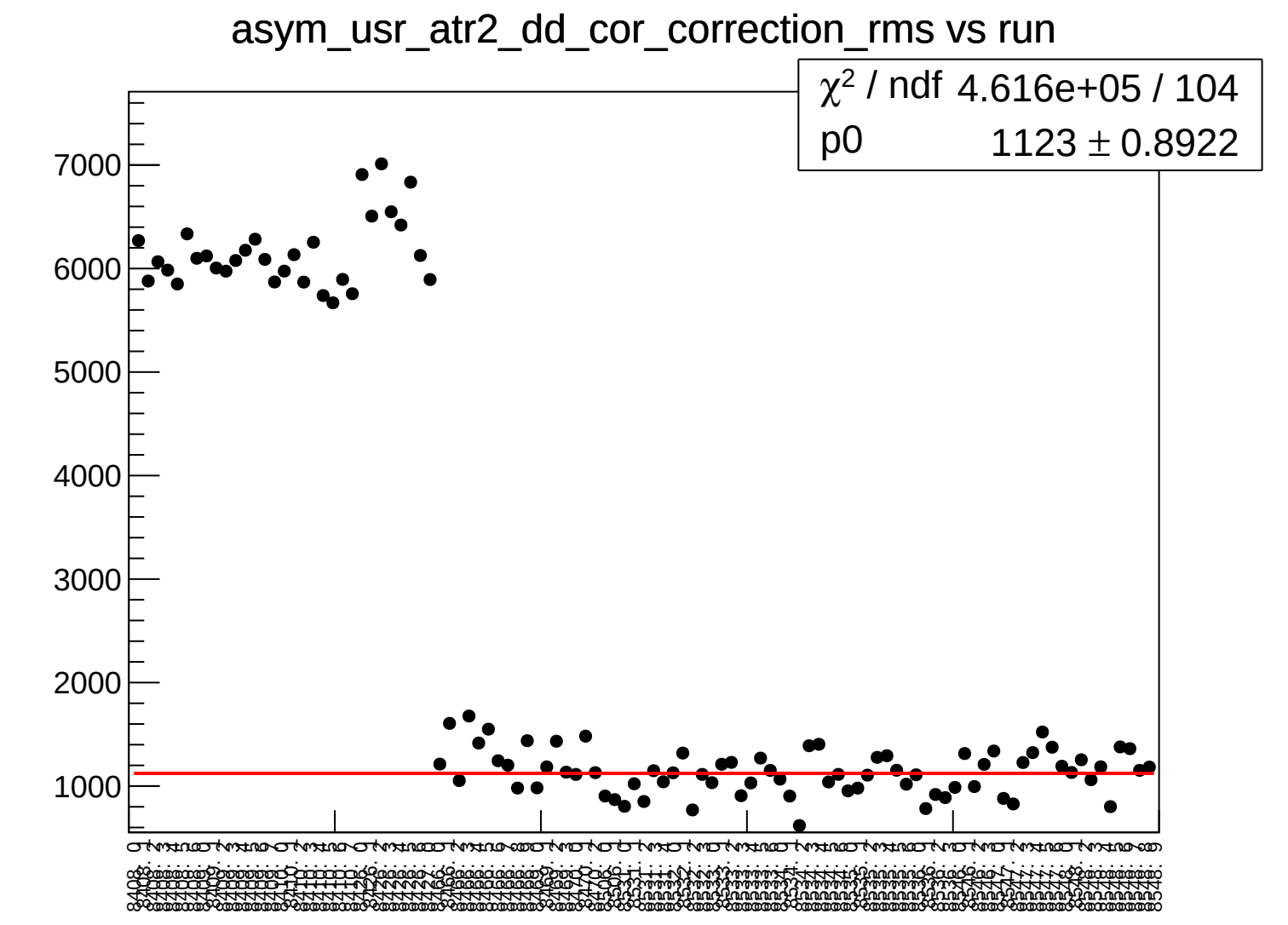

cor_asym_usr_atr2_dd_mean vs run
×10^3
χ² / ndf 83.25 / 104
p0 −960.9 ± 2362
600
400
200
0
−200
−400
−600
−800
pull
Entries 105
Mean 101.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

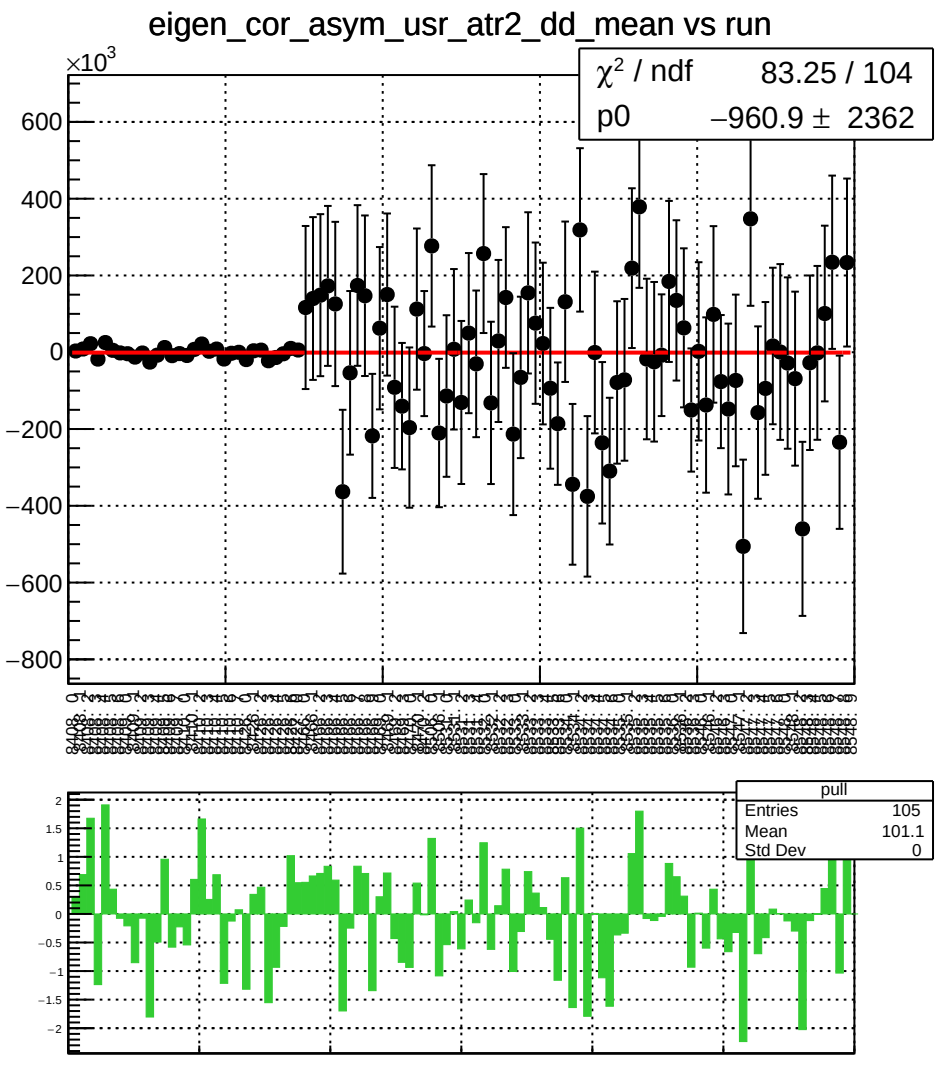

pull1D
Entries 105
Mean −0.05077
Std Dev 0.889
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

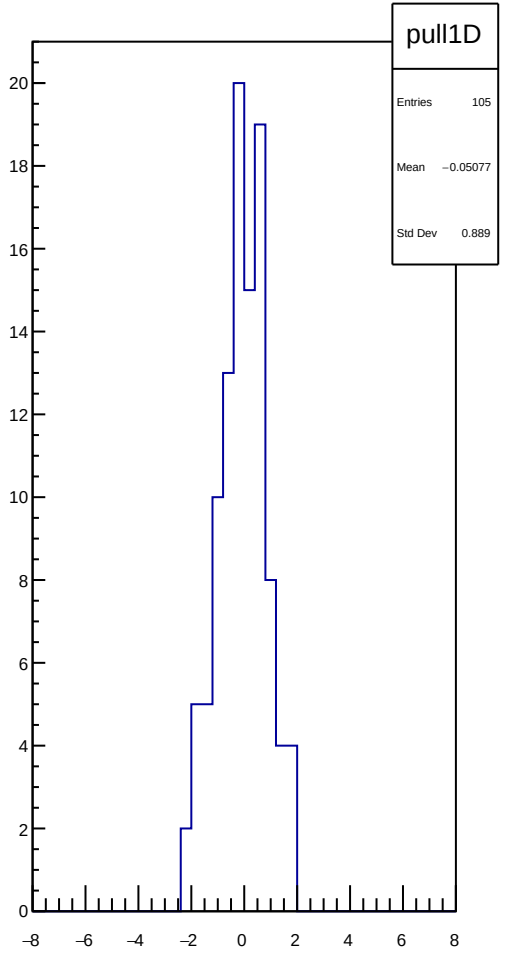

cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 1.252e+06 / 104
p0 1488 ± 1.67
24000
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000

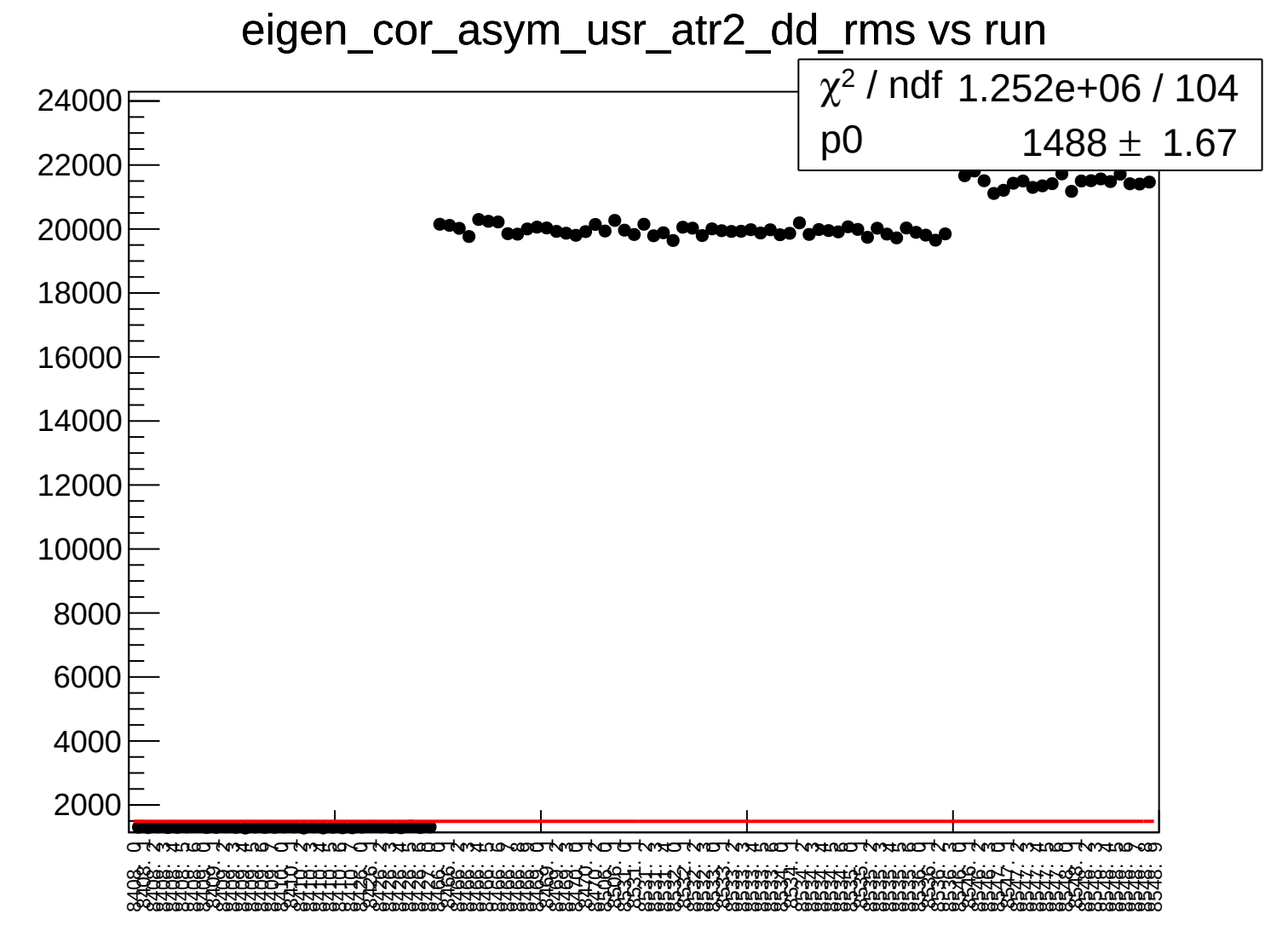

asym_usr_atr2_dd_cor_correction_mean vs run
×10^3
χ² / ndf 102.9 / 104
p0 492.3 ± 1262
250
200
150
100
50
0
−50
−100
−150
pull
Entries 105
Mean 24.58
Std Dev 19.48
2
1
0
−1
−2

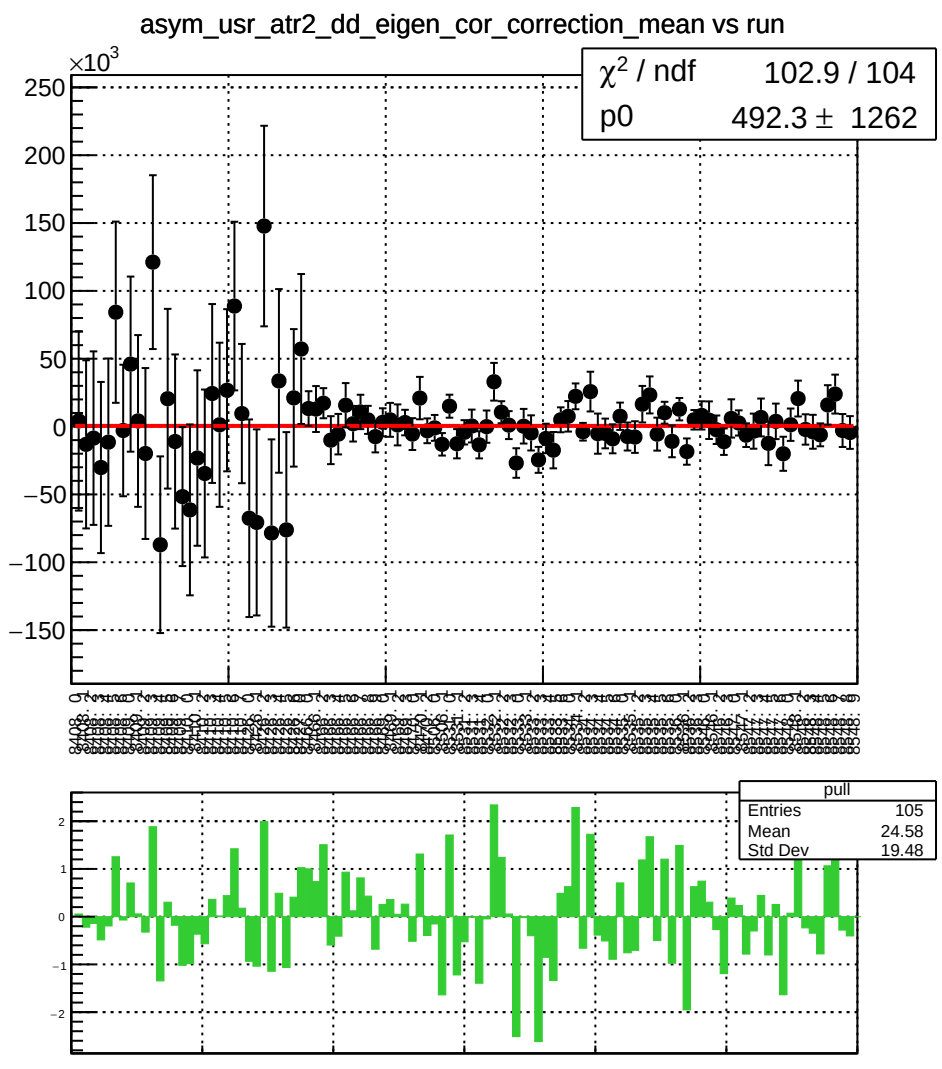

pull1D
Entries 105
Mean 0.02516
Std Dev 0.9898
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

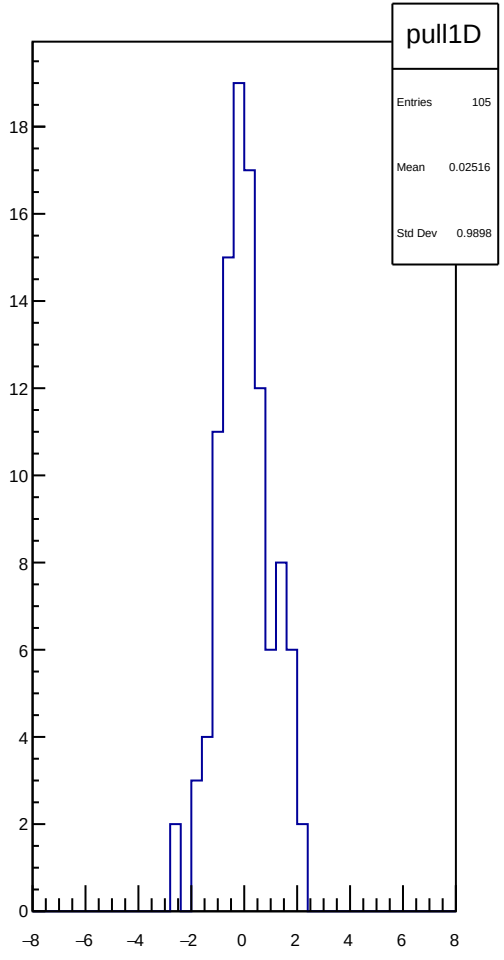

asym_usr_atr2_dd_cor_correction_rms vs run
χ² / ndf 4.616e+05 / 104
p0 1123 ± 0.8922
7000
6000
5000
4000
3000
2000
1000

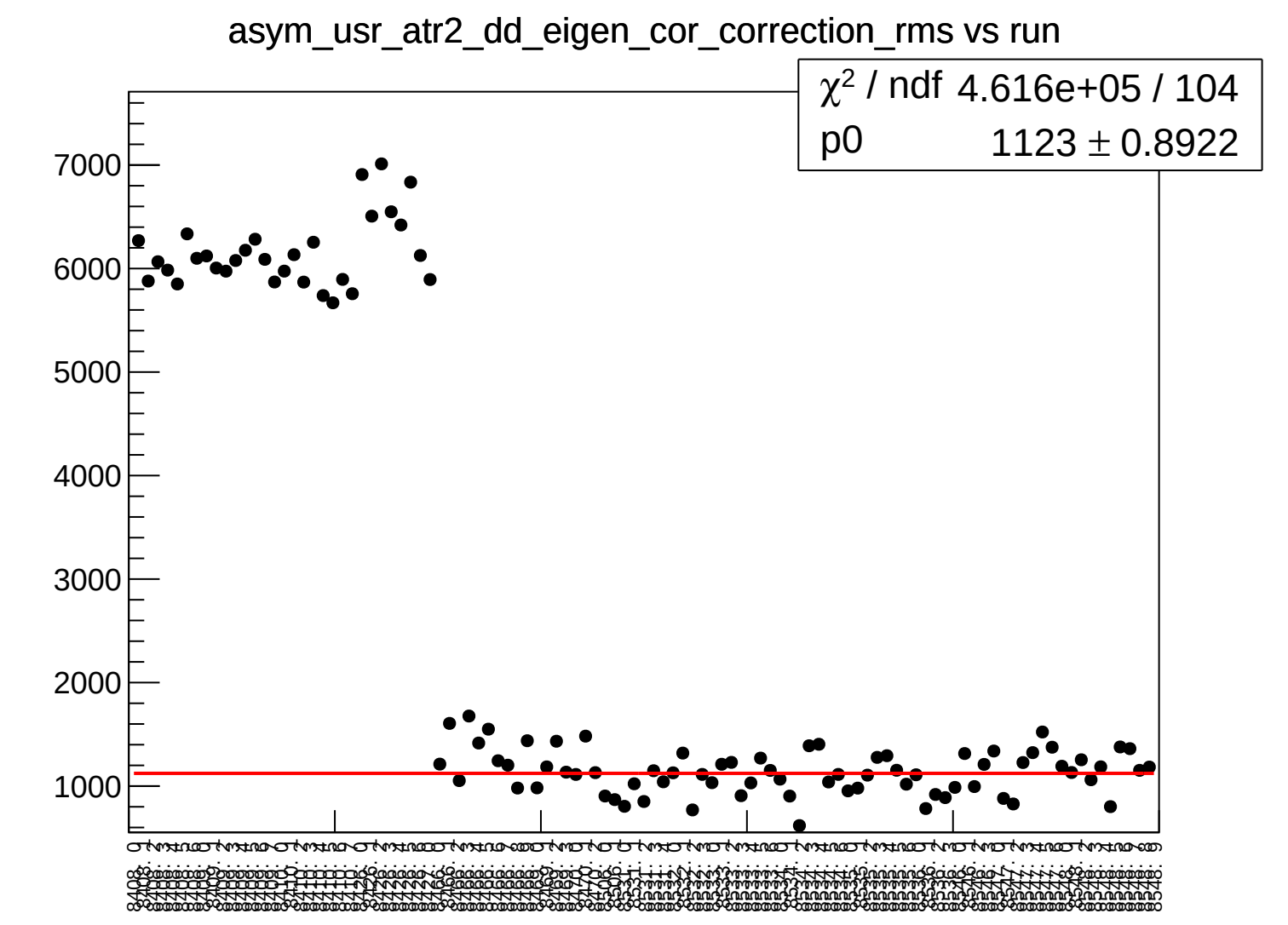

eigen_cor_asym_usr_atr2_dd_mean vs run
×10^3
χ² / ndf 83.25 / 104
p0 −960.9 ± 2362
600
400
200
0
−200
−400
−600
−800
pull
Entries 105
Mean 101.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

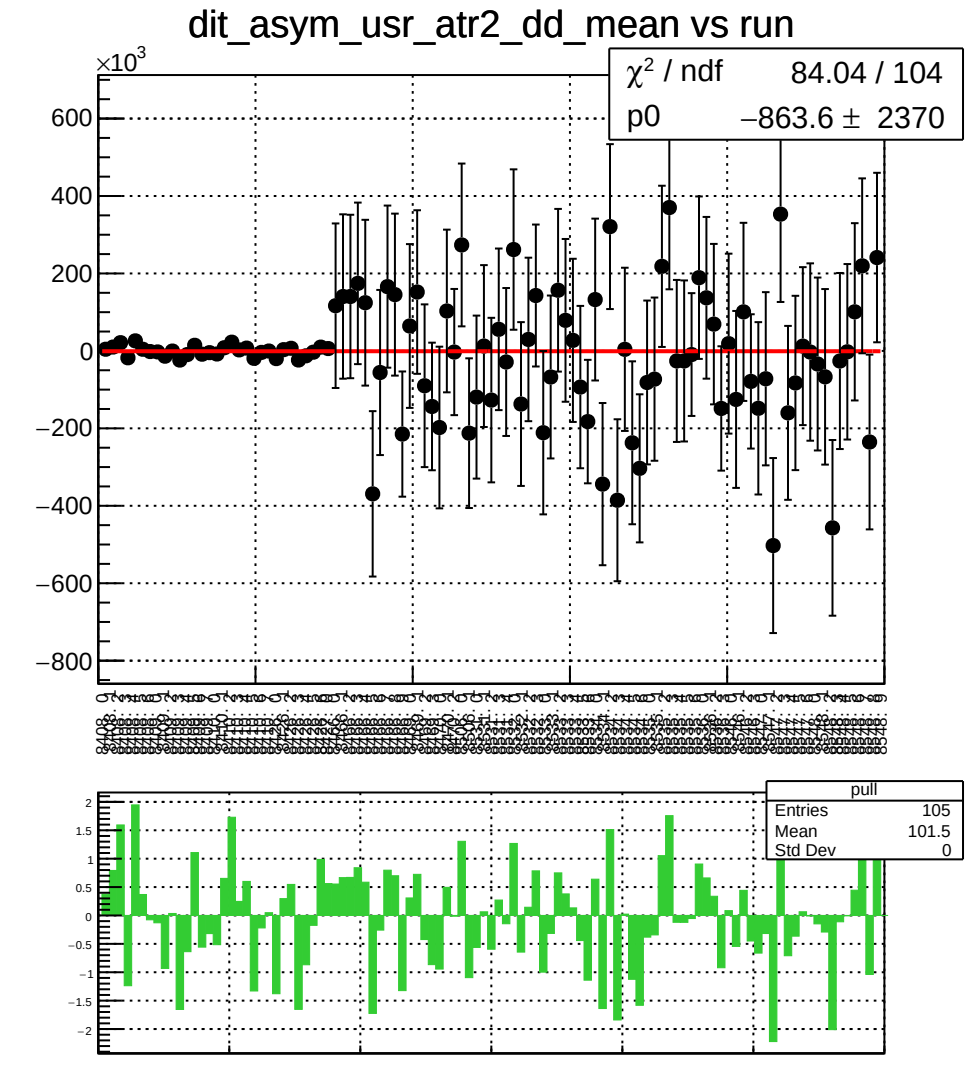

pull1D
Entries 105
Mean −0.05077
Std Dev 0.889
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

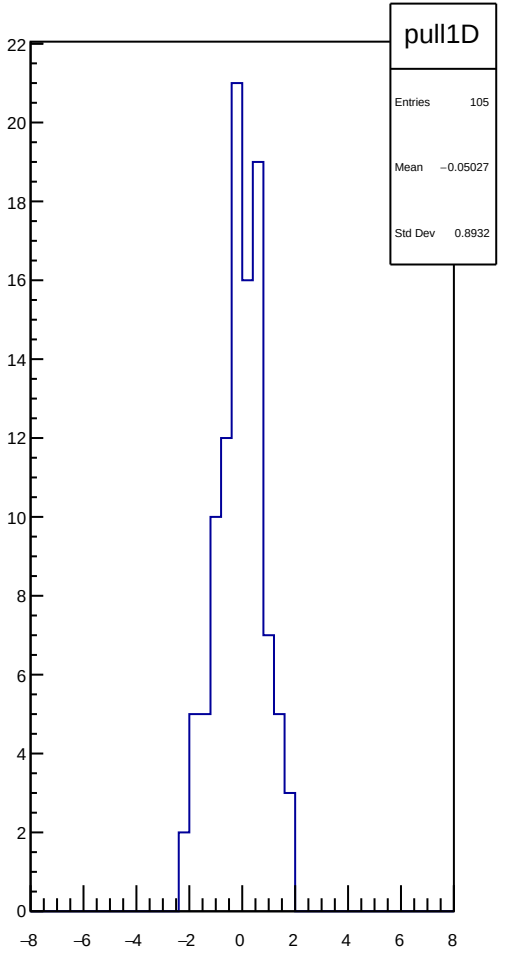

eigen_cor_asym_usr_atr2_dd_rms vs run
χ² / ndf 1.252e+06 / 104
p0 1488 ± 1.67
24000
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000

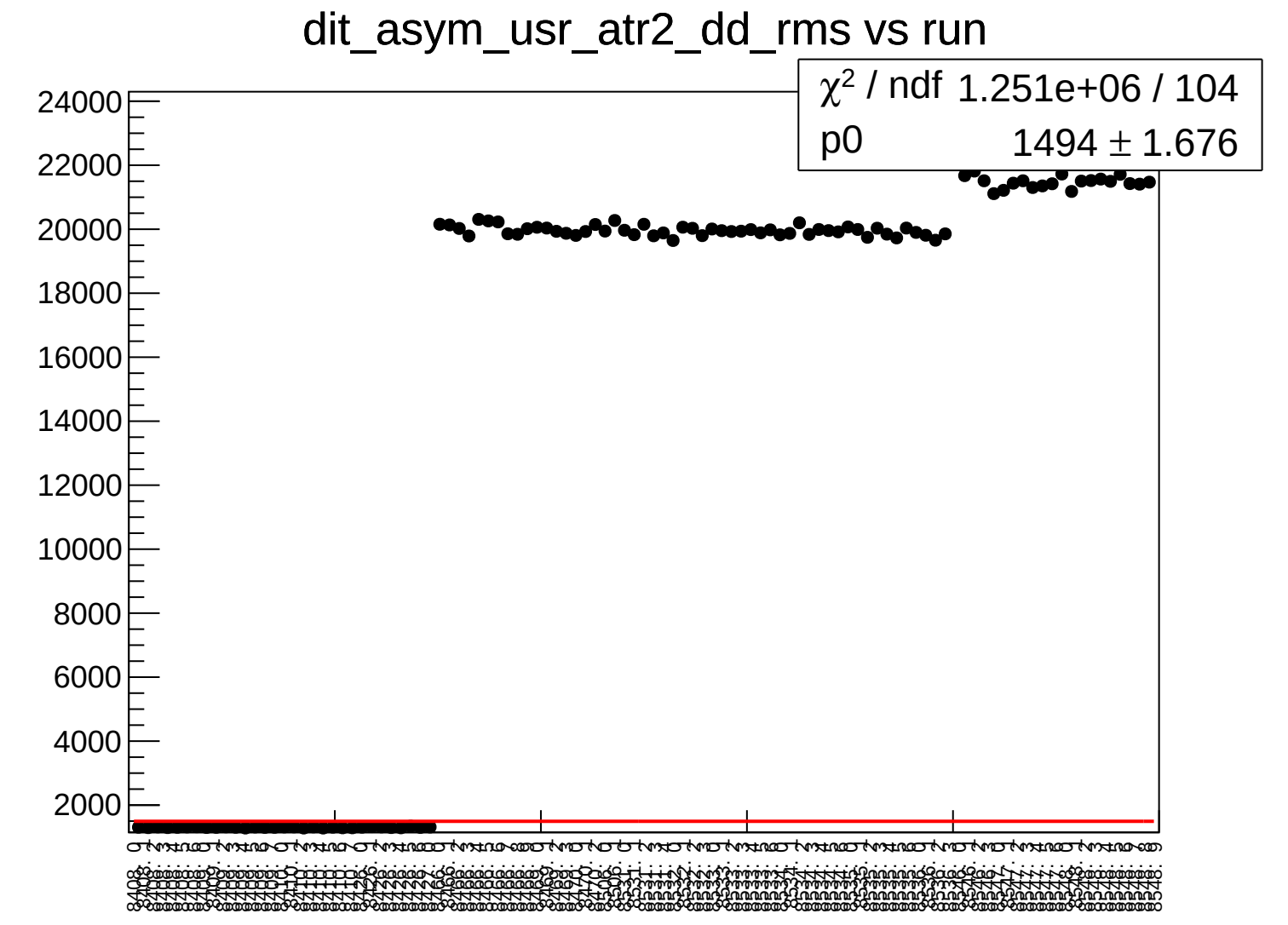

asym_usr_atr2_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 102.9 / 104
p0 492.3 ± 1262
250
200
150
100
50
0
−50
−100
−150
pull
Entries 105
Mean 24.58
Std Dev 19.48
2
1
0
−1
−2

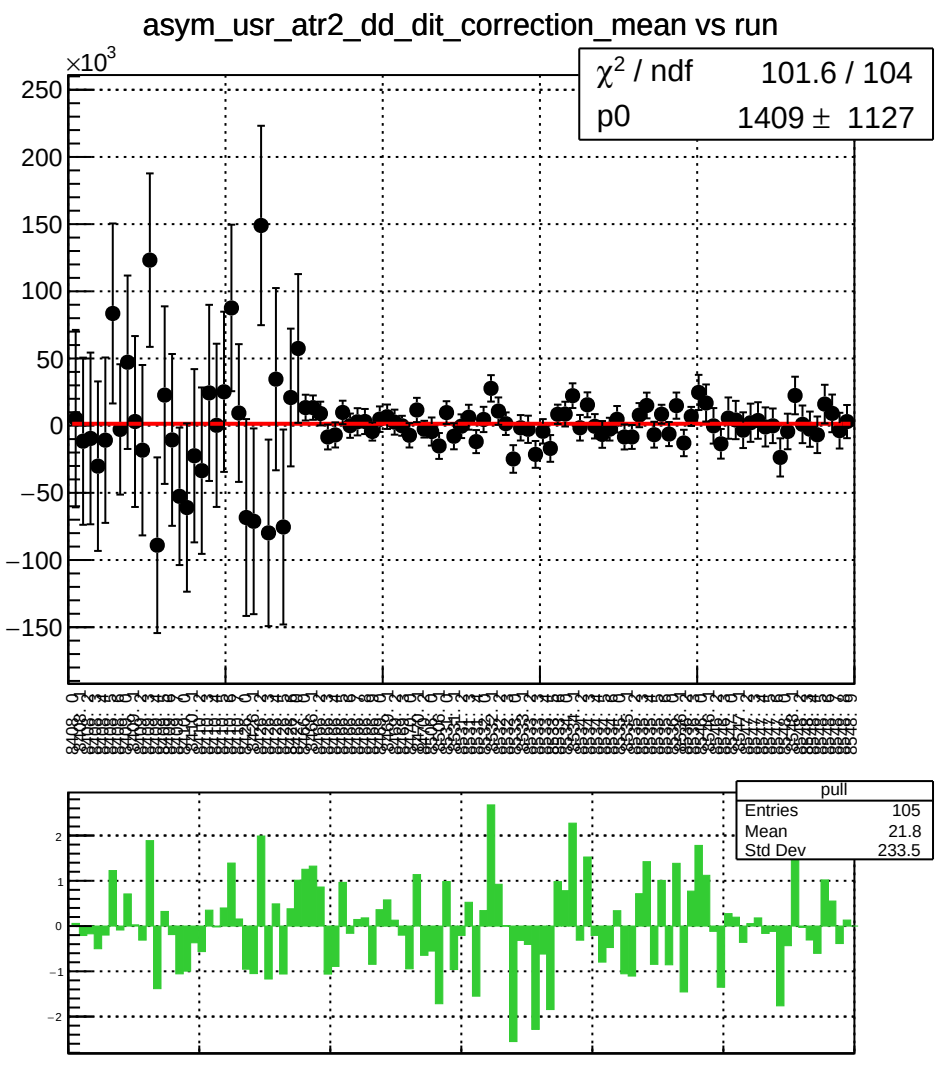

pull1D
Entries 105
Mean 0.02516
Std Dev 0.9898
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

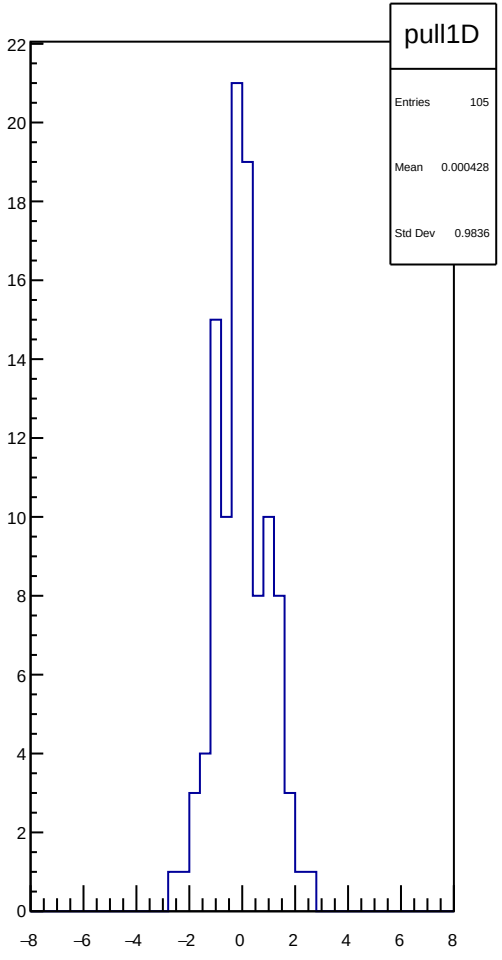

asym_usr_atr2_dd_eigen_cor_correction_rms vs run
χ² / ndf 4.616e+05 / 104
p0 1123 ± 0.8922
7000
6000
5000
4000
3000
2000
1000

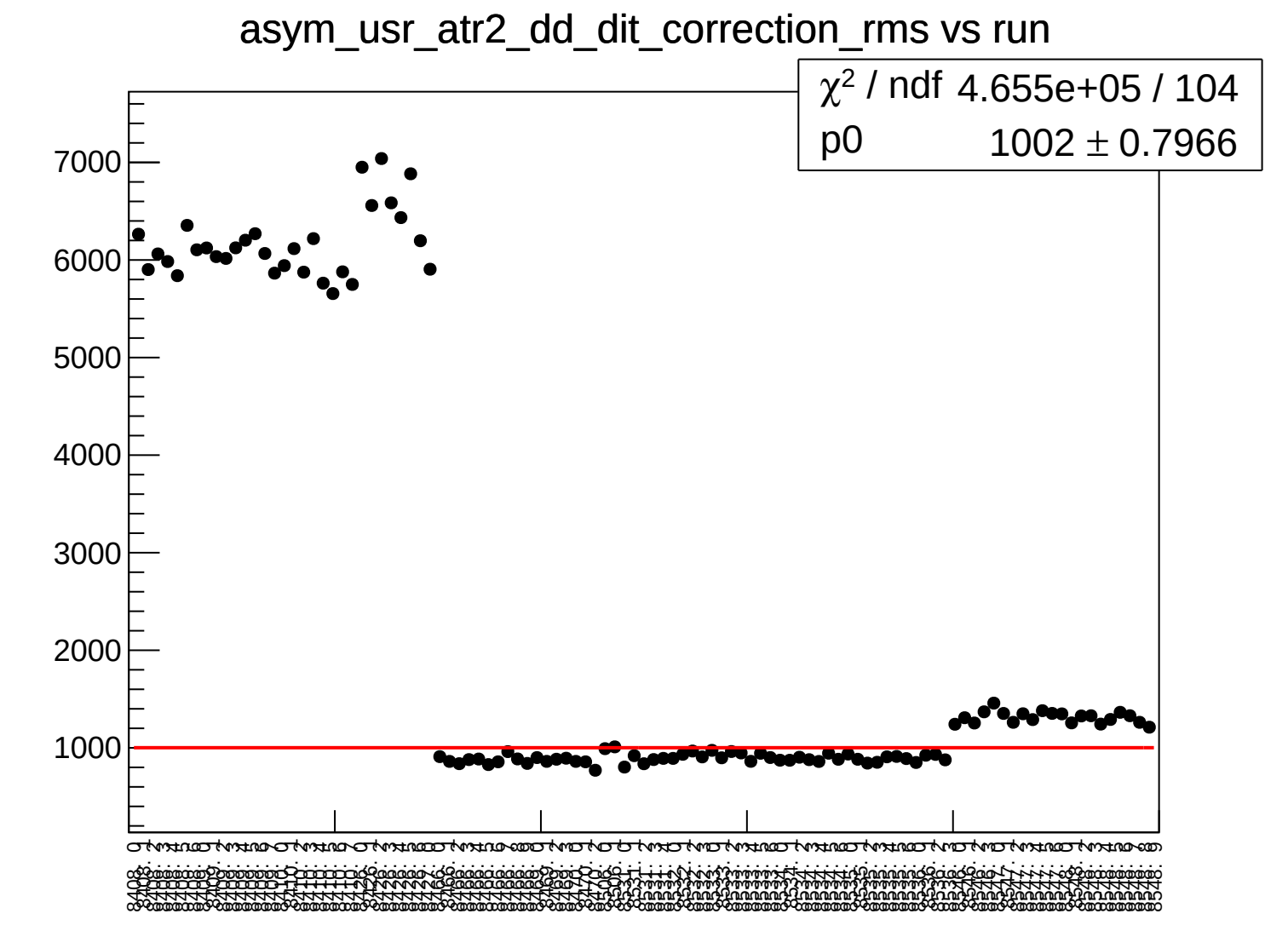

dit_asym_usr_atr2_dd_mean vs run
χ² / ndf 84.04 / 104
p0 −863.6 ± 2370
×10³
600
400
200
0
−200
−400
−600
−800
pull
Entries 105
Mean 101.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

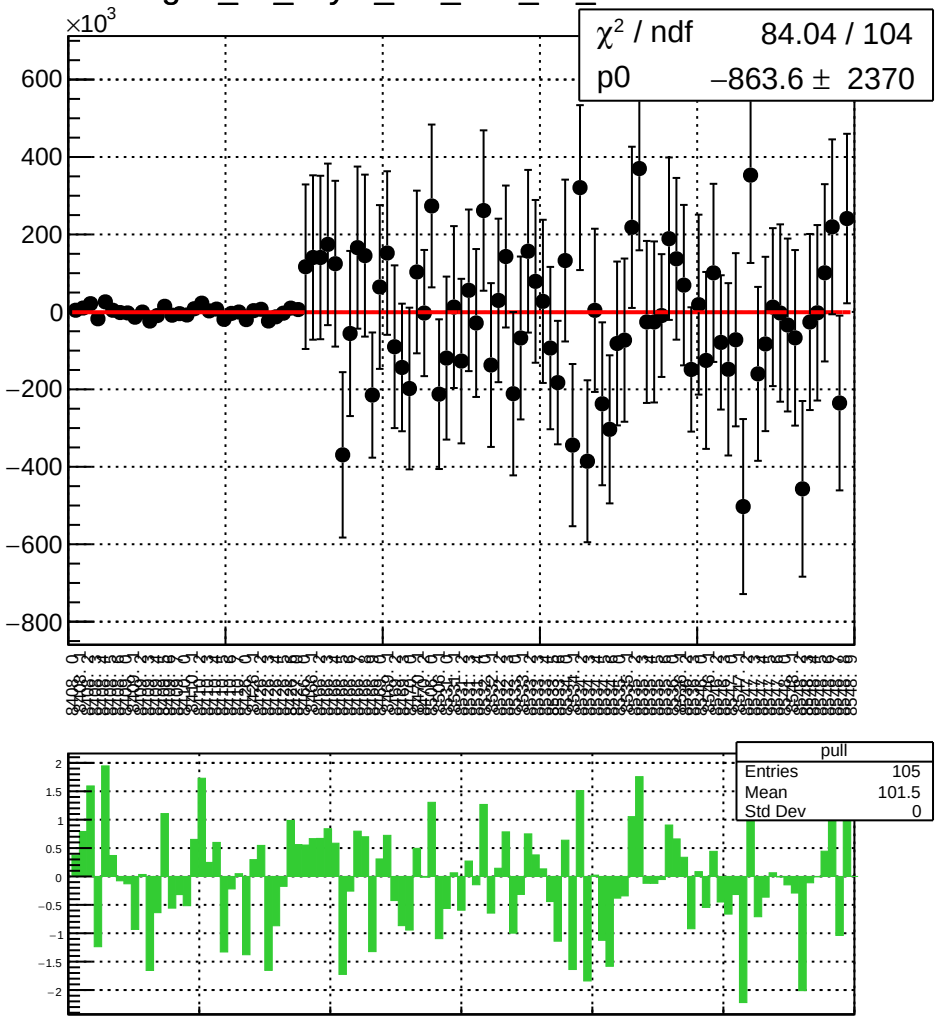

pull1D
Entries 105
Mean −0.05027
Std Dev 0.8932
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

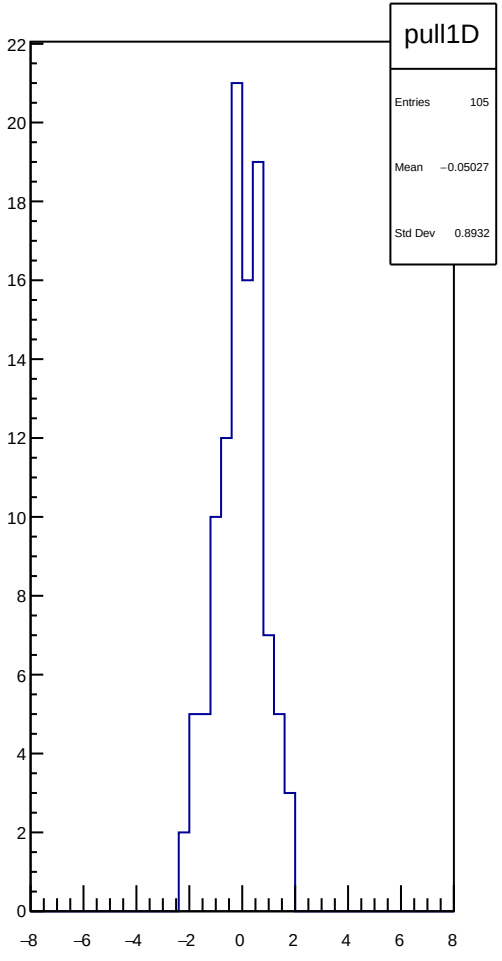

dit_asym_usr_atr2_dd_rms vs run
χ^2 / ndf 1.251e+06 / 104
p0 1494 ± 1.676
24000
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000

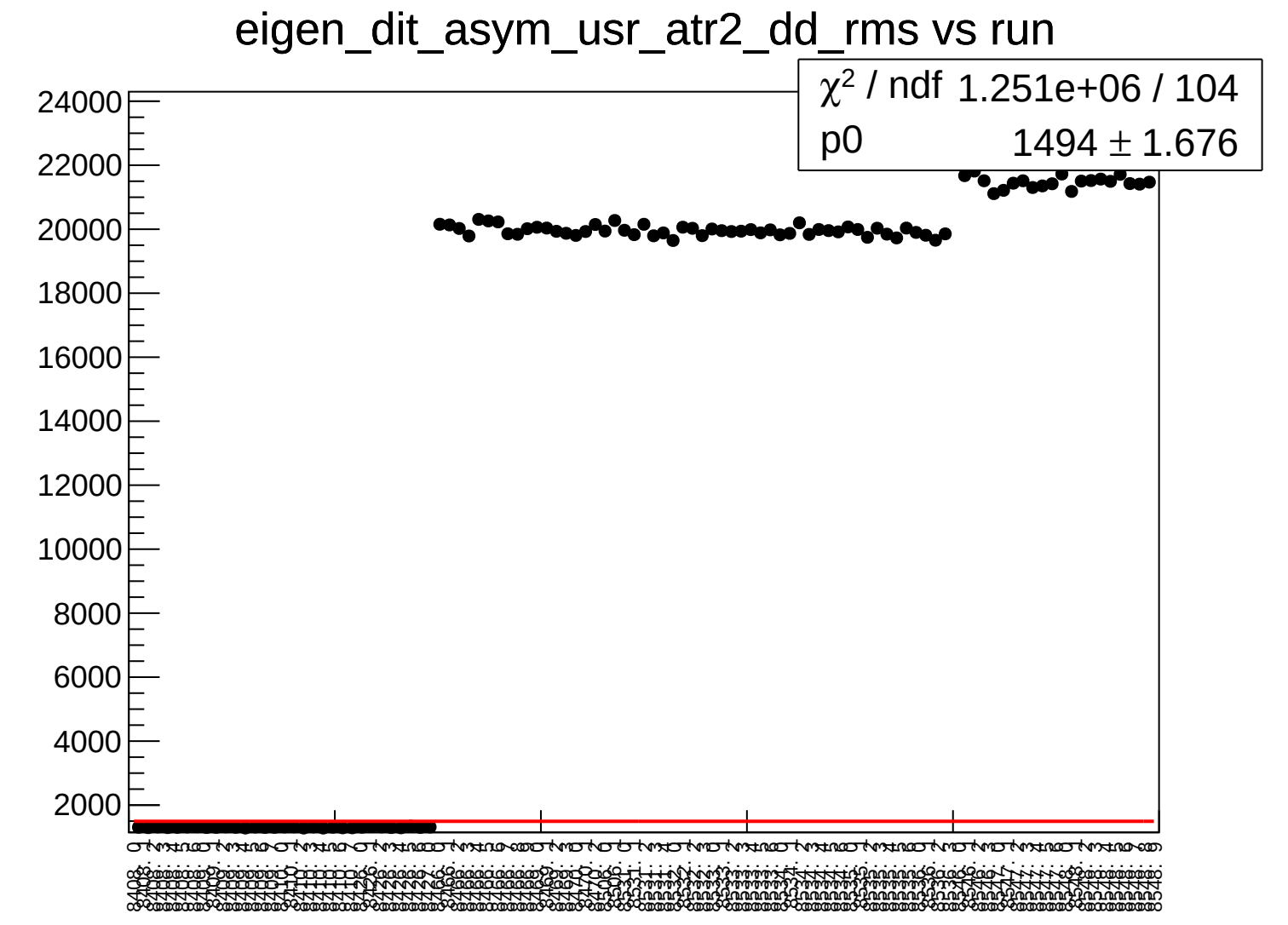

asym_usr_atr2_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 101.6 / 104
p0 1409 ± 1127
250
200
150
100
50
0
−50
−100
−150
pull
Entries 105
Mean 21.8
Std Dev 233.5
2
1
0
−1
−2

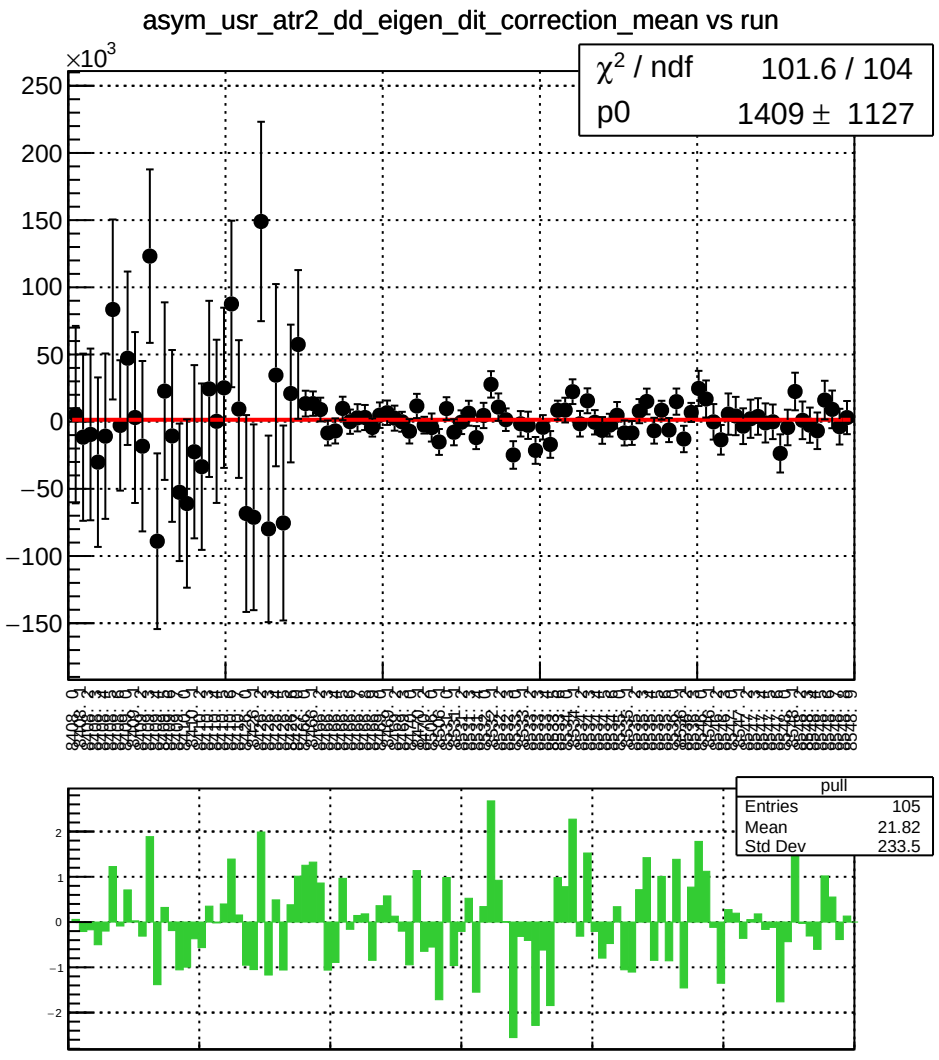

pull1D
Entries 105
Mean 0.000428
Std Dev 0.9836
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

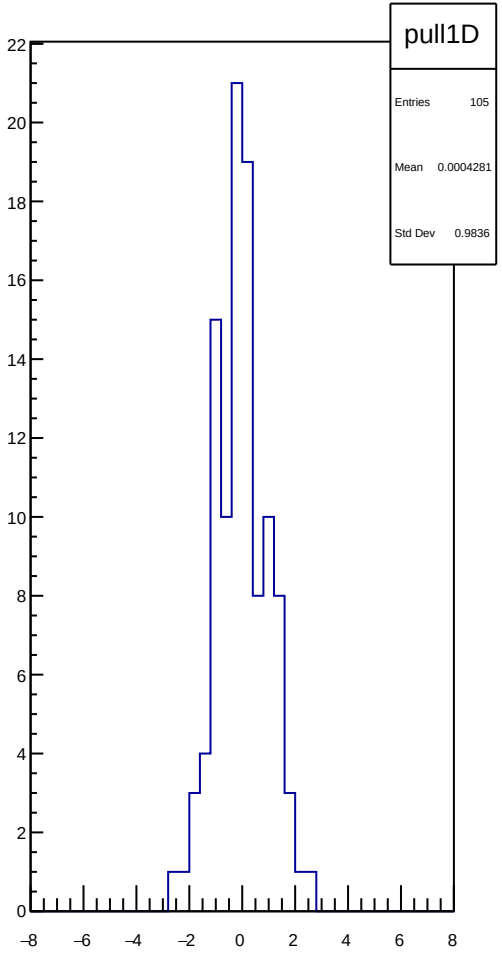

asym_usr_atr2_dd_dit_correction_rms vs run
χ² / ndf 4.655e+05 / 104
p0 1002 ± 0.7966
7000
6000
5000
4000
3000
2000
1000

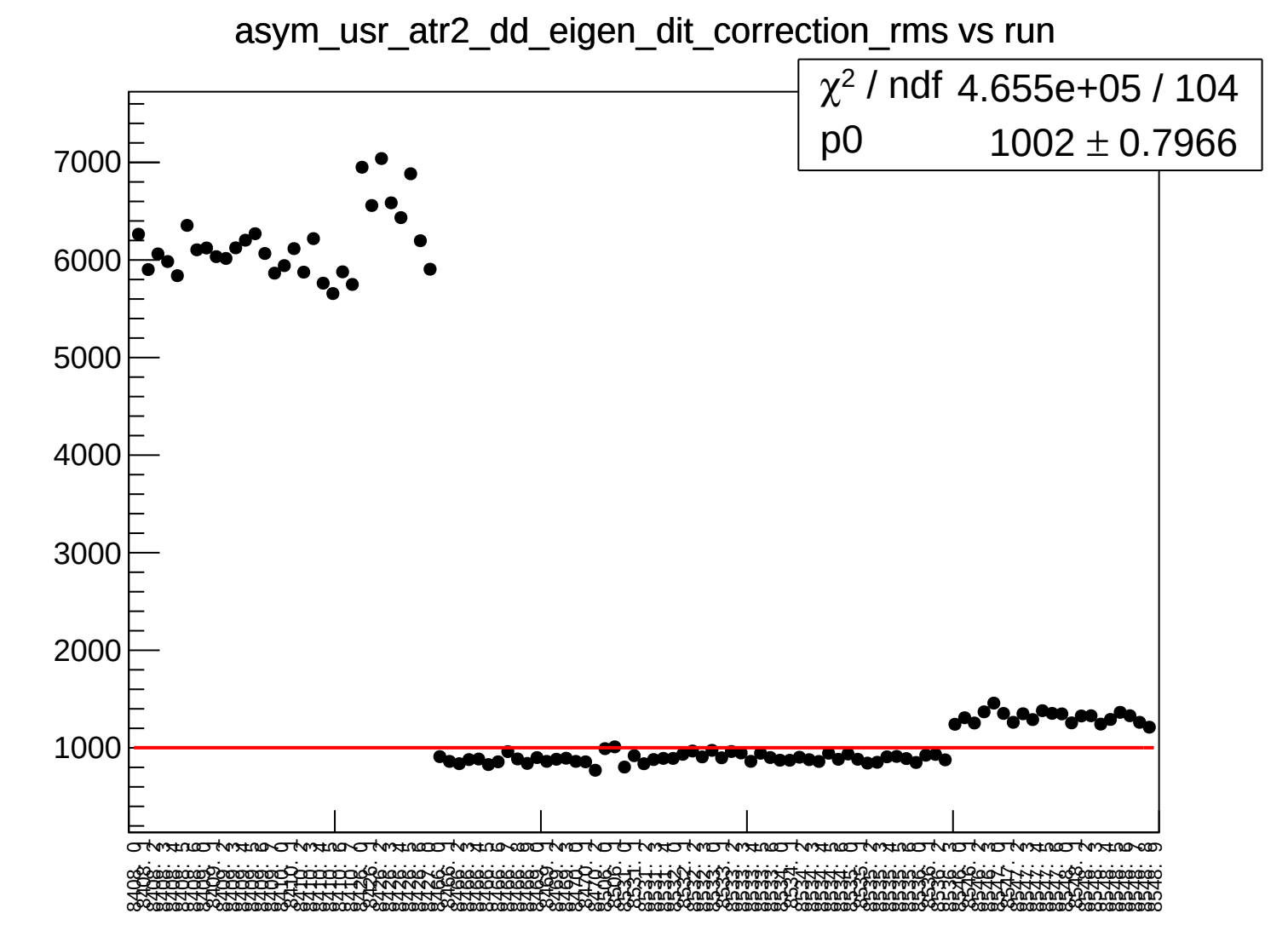

eigen_dit_asym_usr_atr2_dd_mean vs run
×10^3
χ² / ndf 84.04 / 104
p0 −863.6 ± 2370
600
400
200
0
−200
−400
−600
−800
pull
Entries 105
Mean 101.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

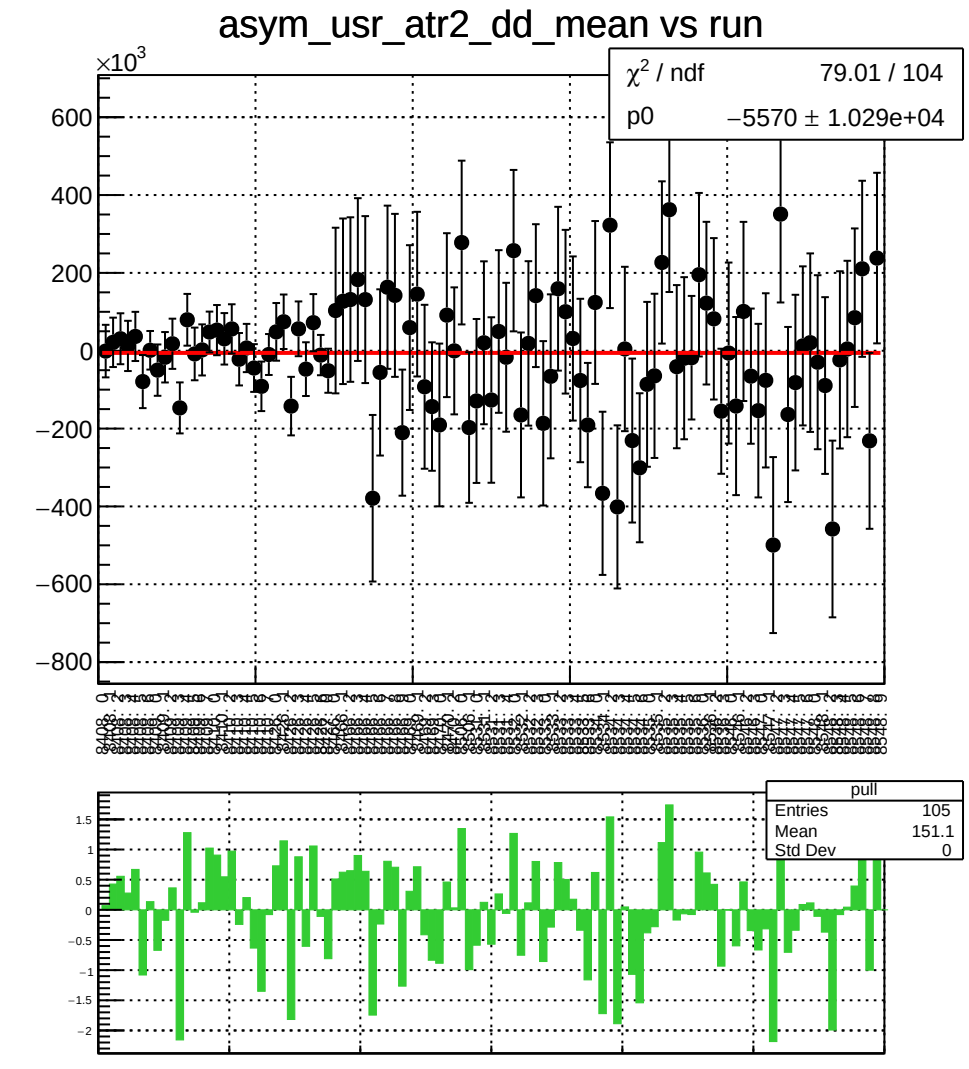

pull1D
Entries 105
Mean −0.05027
Std Dev 0.8932
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

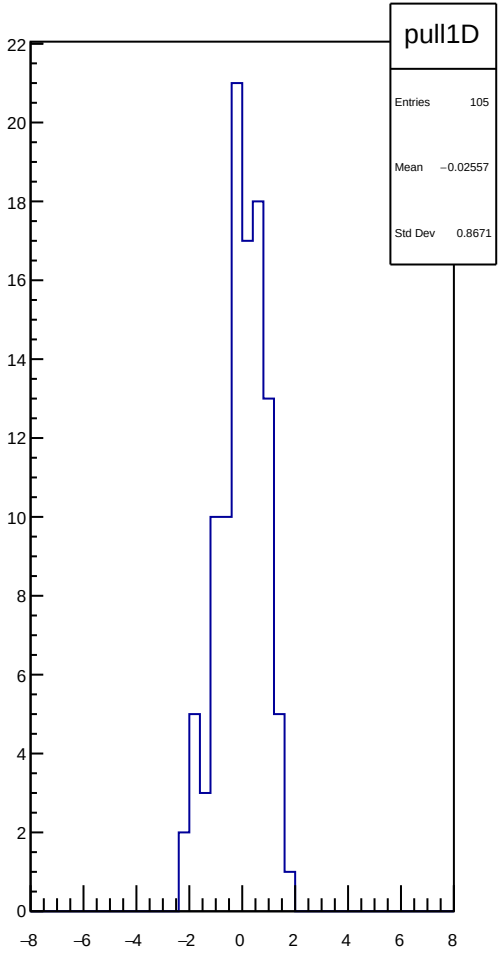

eigen_dit_asym_usr_atr2_dd_rms vs run
χ² / ndf 1.251e+06 / 104
p0 1494 ± 1.676
24000
22000
20000
18000
16000
14000
12000
10000
8000
6000
4000
2000

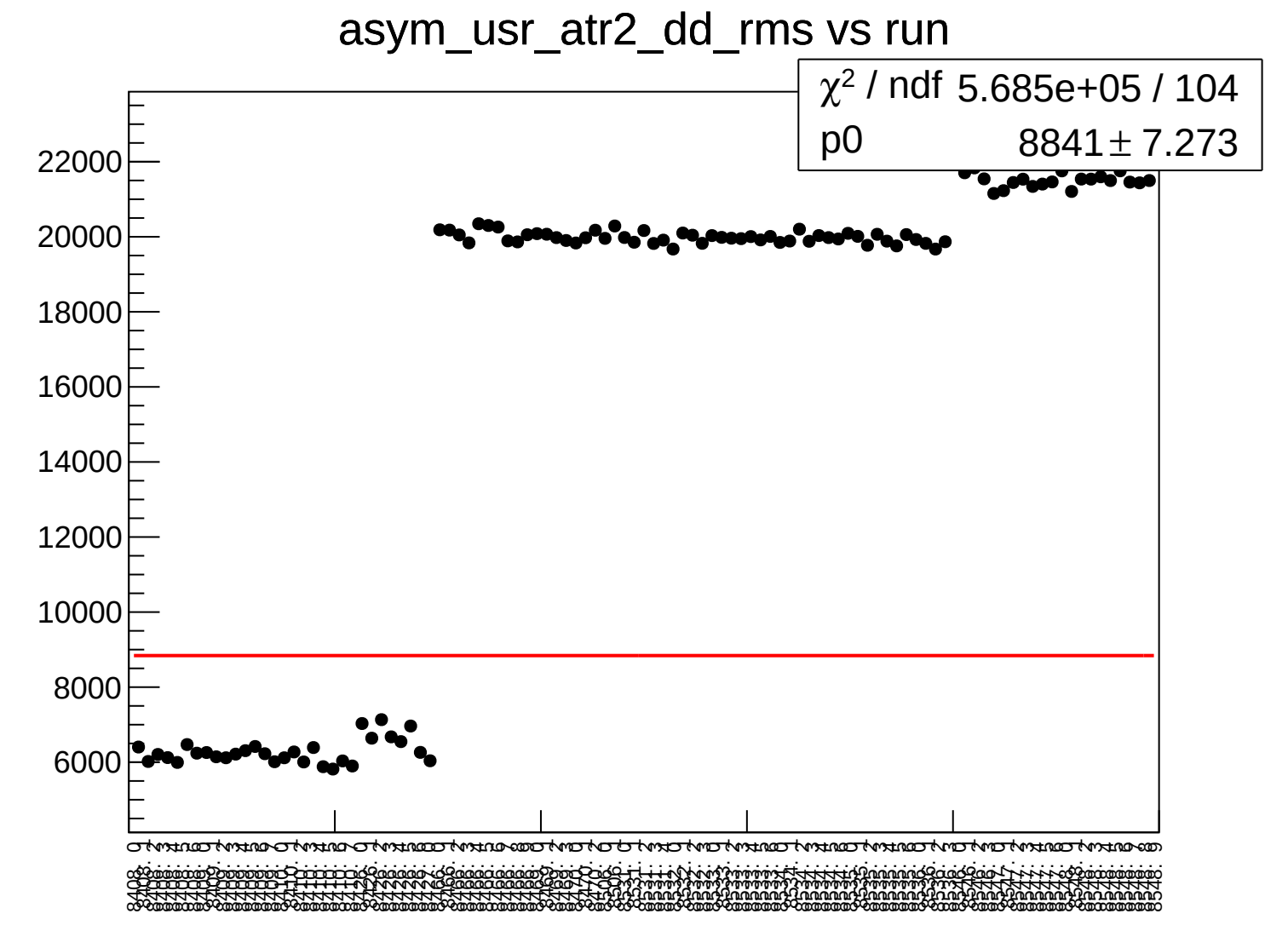

asym_usr_atr2_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 101.6 / 104
p0 1409 ± 1127
pull
Entries 105
Mean 21.82
Std Dev 233.5

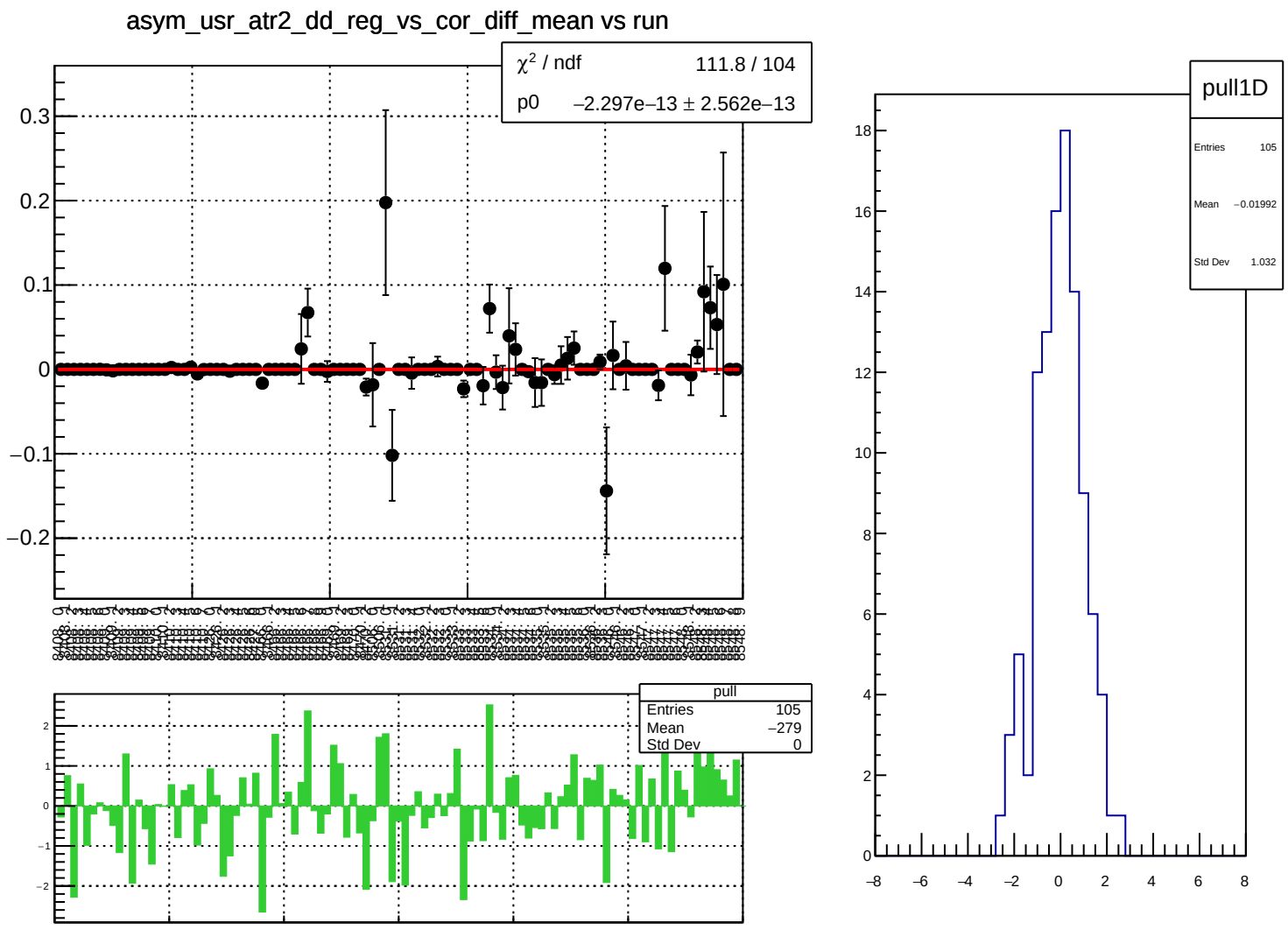

pull1D
Entries 105
Mean 0.0004281
Std Dev 0.9836

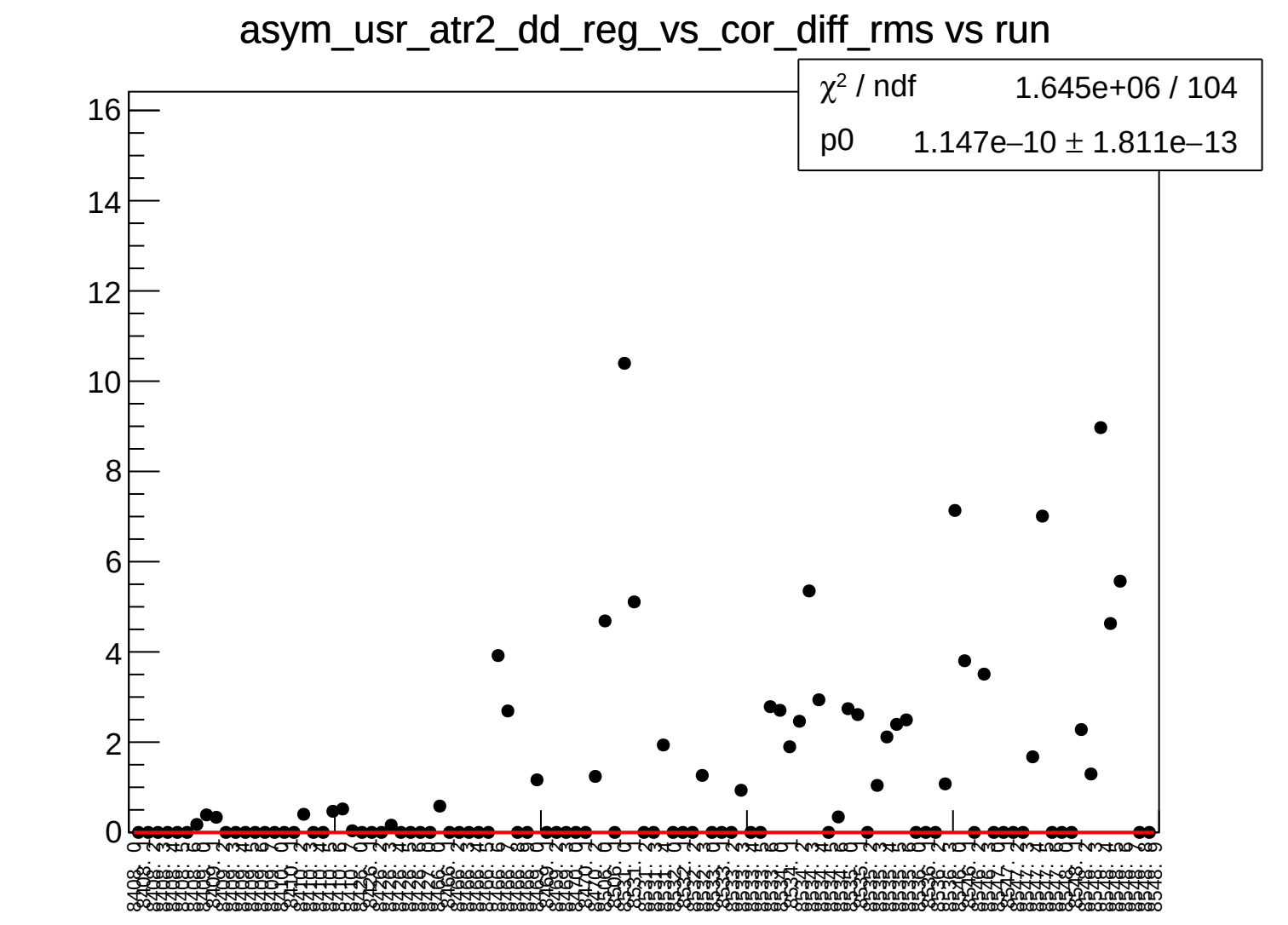

asym_usr_atr2_dd_eigen_dit_correction_rms vs run
χ² / ndf 4.655e+05 / 104
p0 1002 ± 0.7966
7000
6000
5000
4000
3000
2000
1000

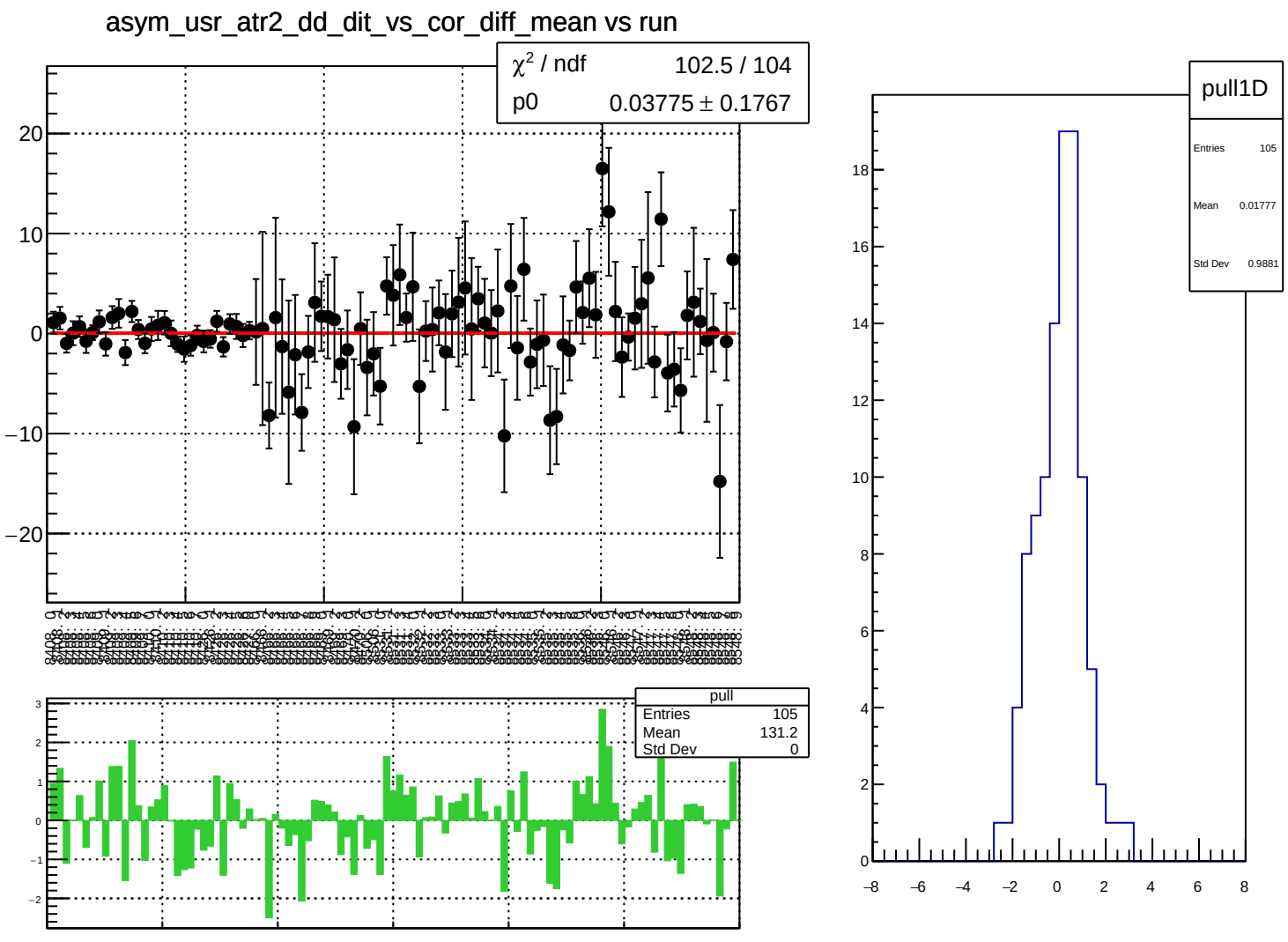

asym_usr_atr2_dd_mean vs run
×10^3
χ² / ndf 79.01 / 104
p0 −5570 ± 1.029e+04
pull
Entries 105
Mean 151.1
Std Dev 0

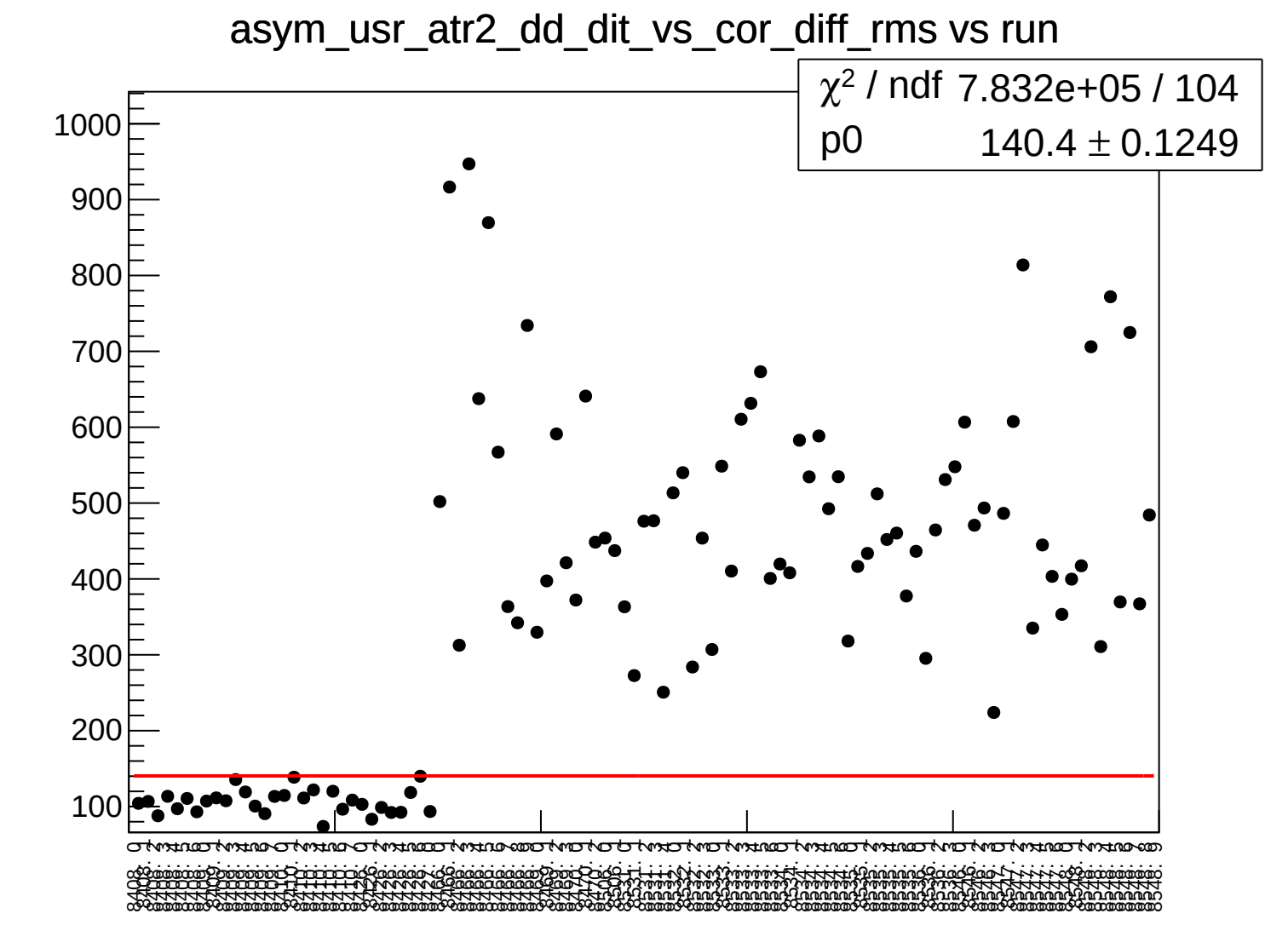

pull1D
Entries 105
Mean −0.02557
Std Dev 0.8671

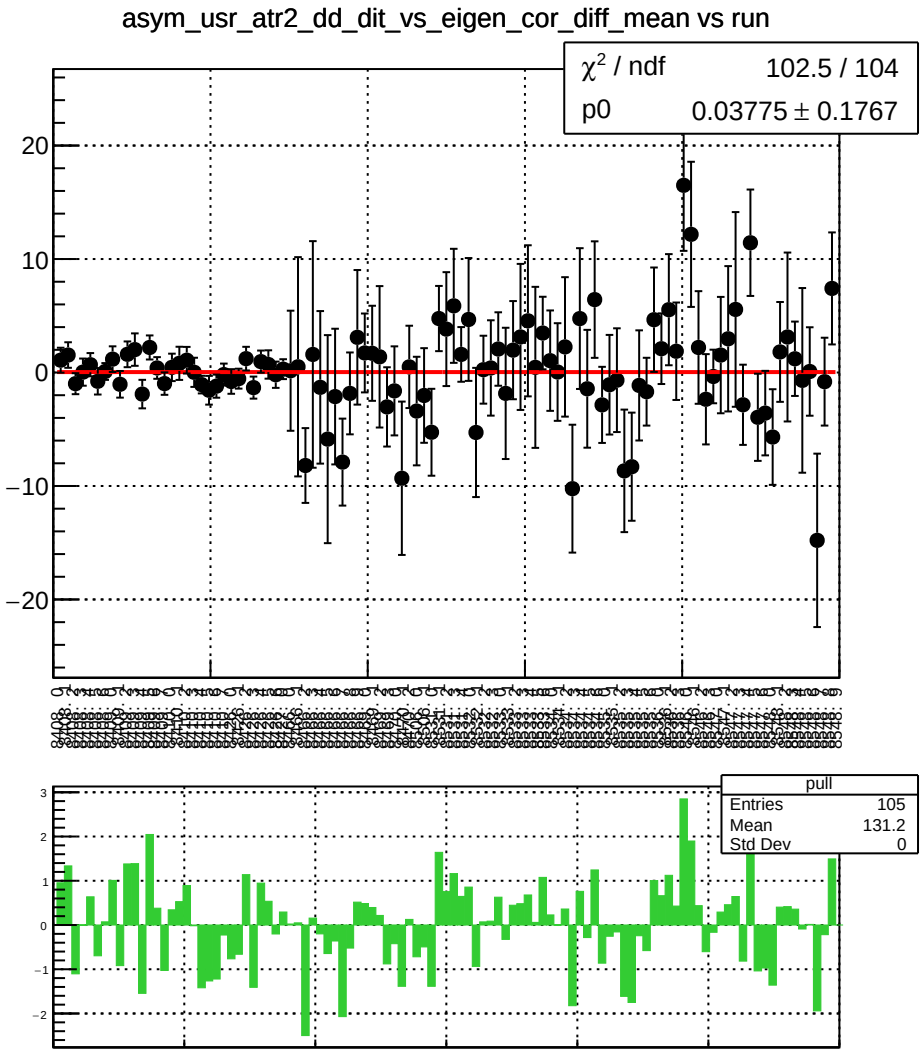

asym_usr_atr2_dd_rms vs run
χ² / ndf 5.685e+05 / 104
p0 8841 ± 7.273
22000
20000
18000
16000
14000
12000
10000
8000
6000

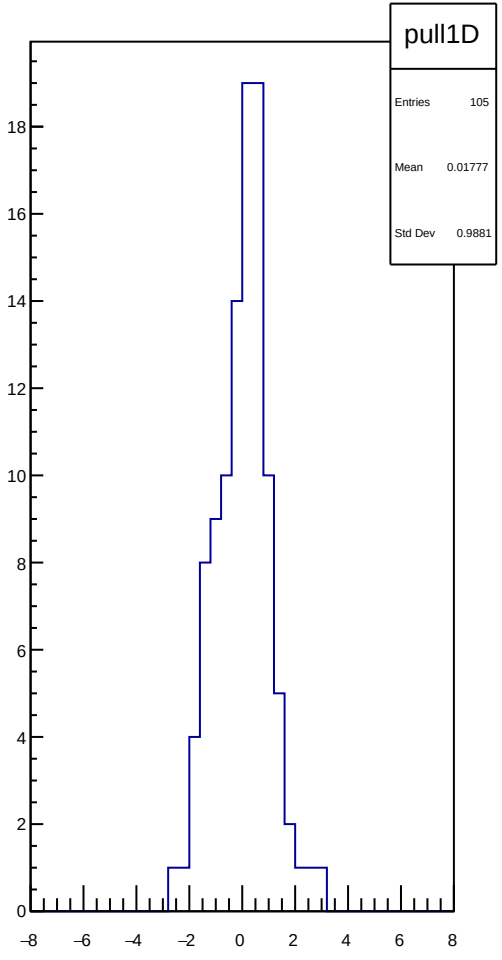

asym_usr_atr2_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 111.8 / 104
p0 −2.297e−13 ± 2.562e−13
0.3
0.2
0.1
0
−0.1
−0.2
pull
Entries 105
Mean −279
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.01992
Std Dev 1.032
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

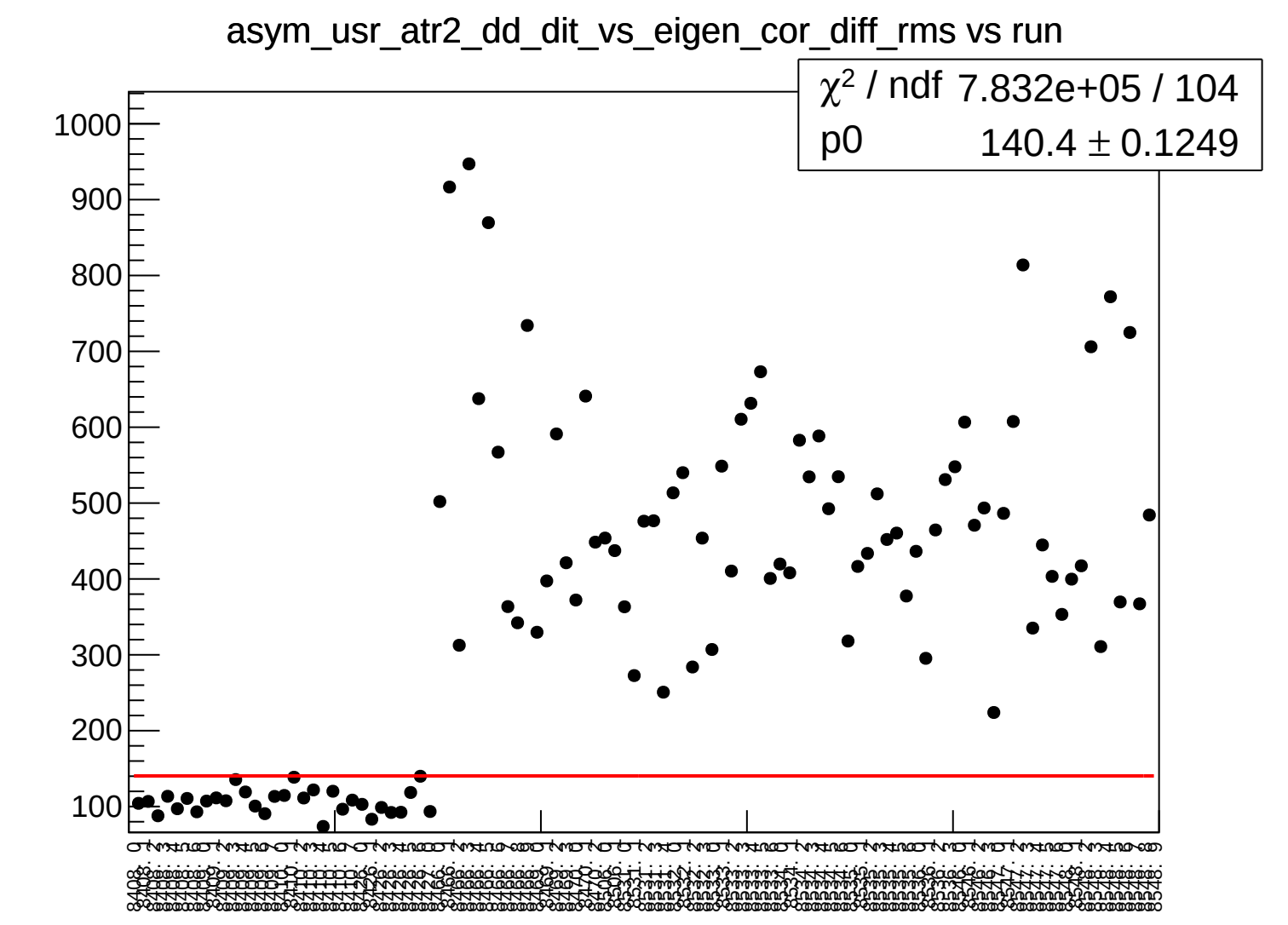

asym_usr_atr2_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.645e+06 / 104
p0 1.147e−10 ± 1.811e−13
16
14
12
10
8
6
4
2
0

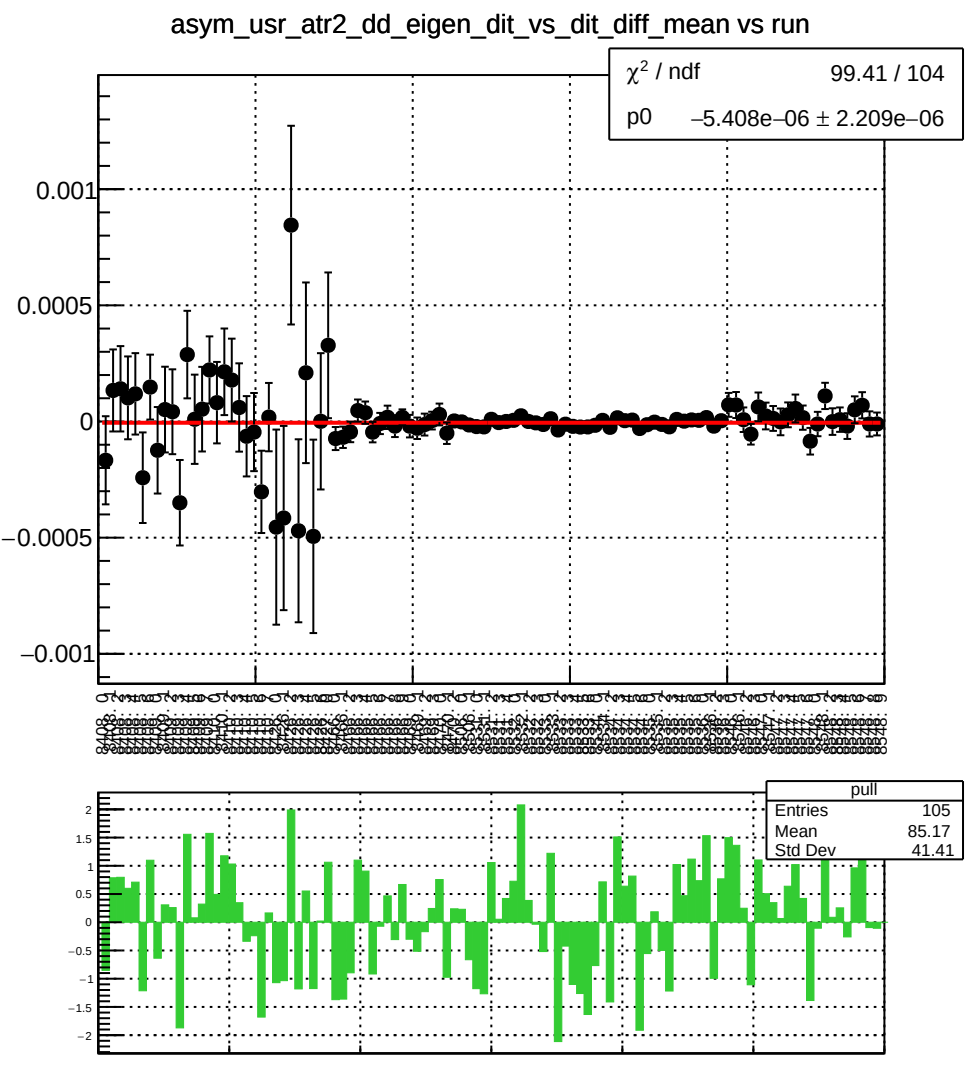

asym_usr_atr2_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 102.5 / 104
p0 0.03775 ± 0.1767
20
10
0
−10
−20
pull
Entries 105
Mean 131.2
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.01777
Std Dev 0.9881
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

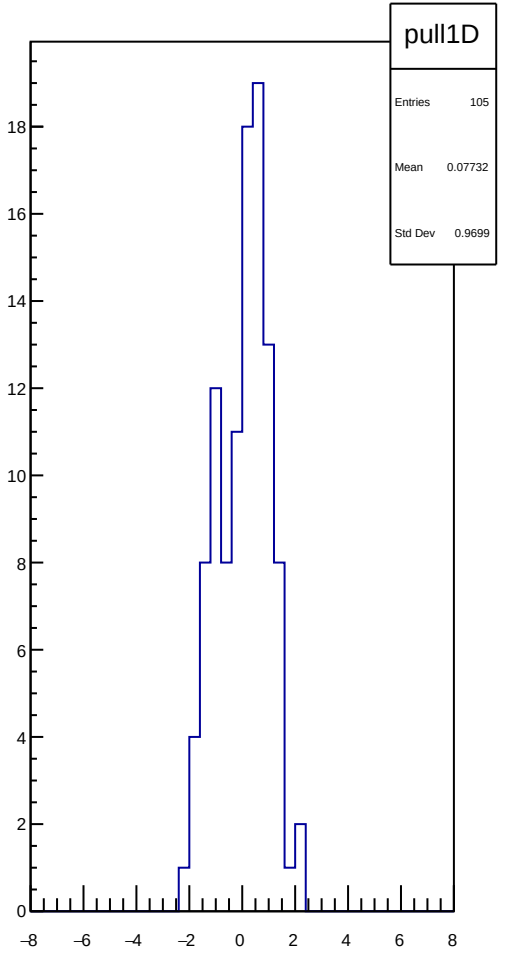

asym_usr_atr2_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7.832e+05 / 104
p0 140.4 ± 0.1249
1000
900
800
700
600
500
400
300
200
100

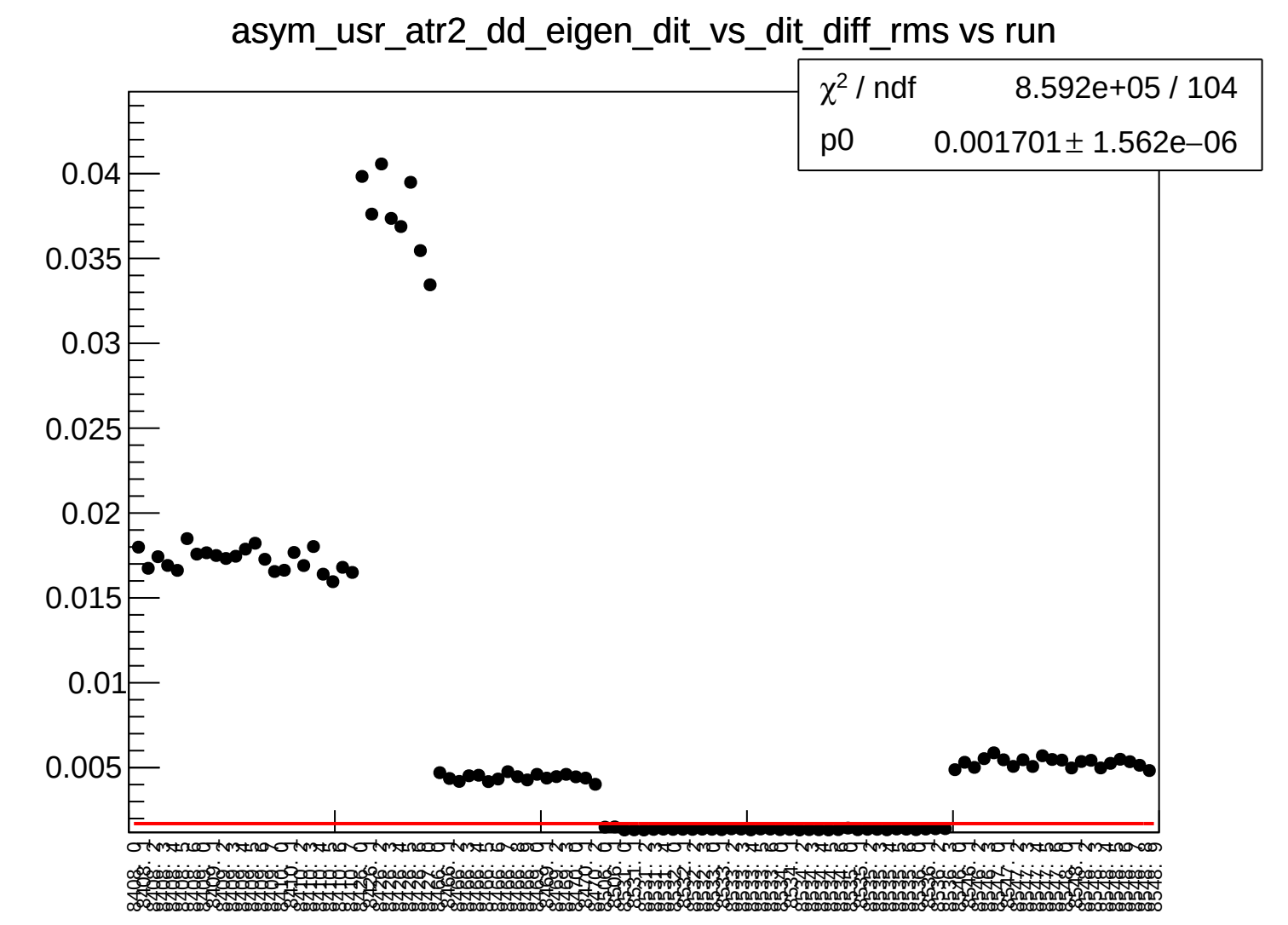

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.5 / 104
p0 0.03775 ± 0.1767
20
10
0
−10
−20
pull
Entries 105
Mean 131.2
Std Dev 0
3
2
1
0
−1
−2

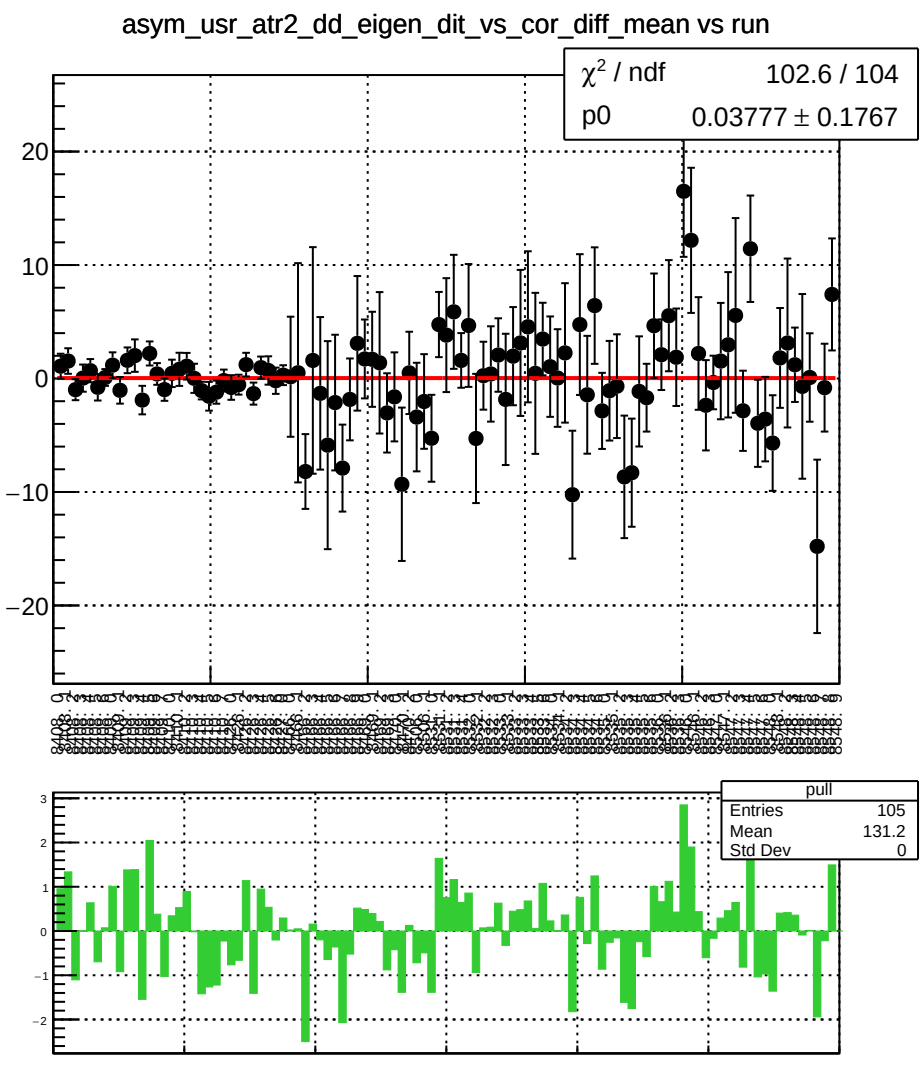

pull1D
Entries 105
Mean 0.01777
Std Dev 0.9881
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

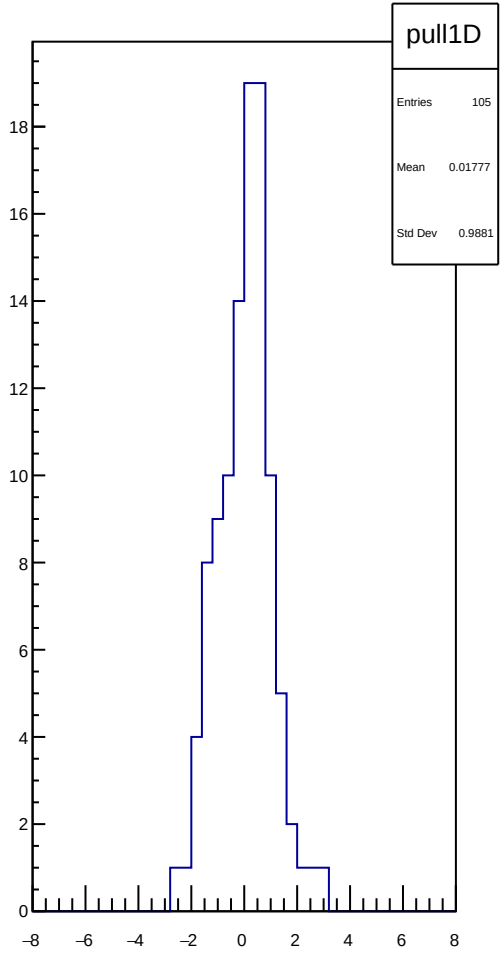

asym_usr_atr2_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.832e+05 / 104
p0 140.4 ± 0.1249
1000
900
800
700
600
500
400
300
200
100

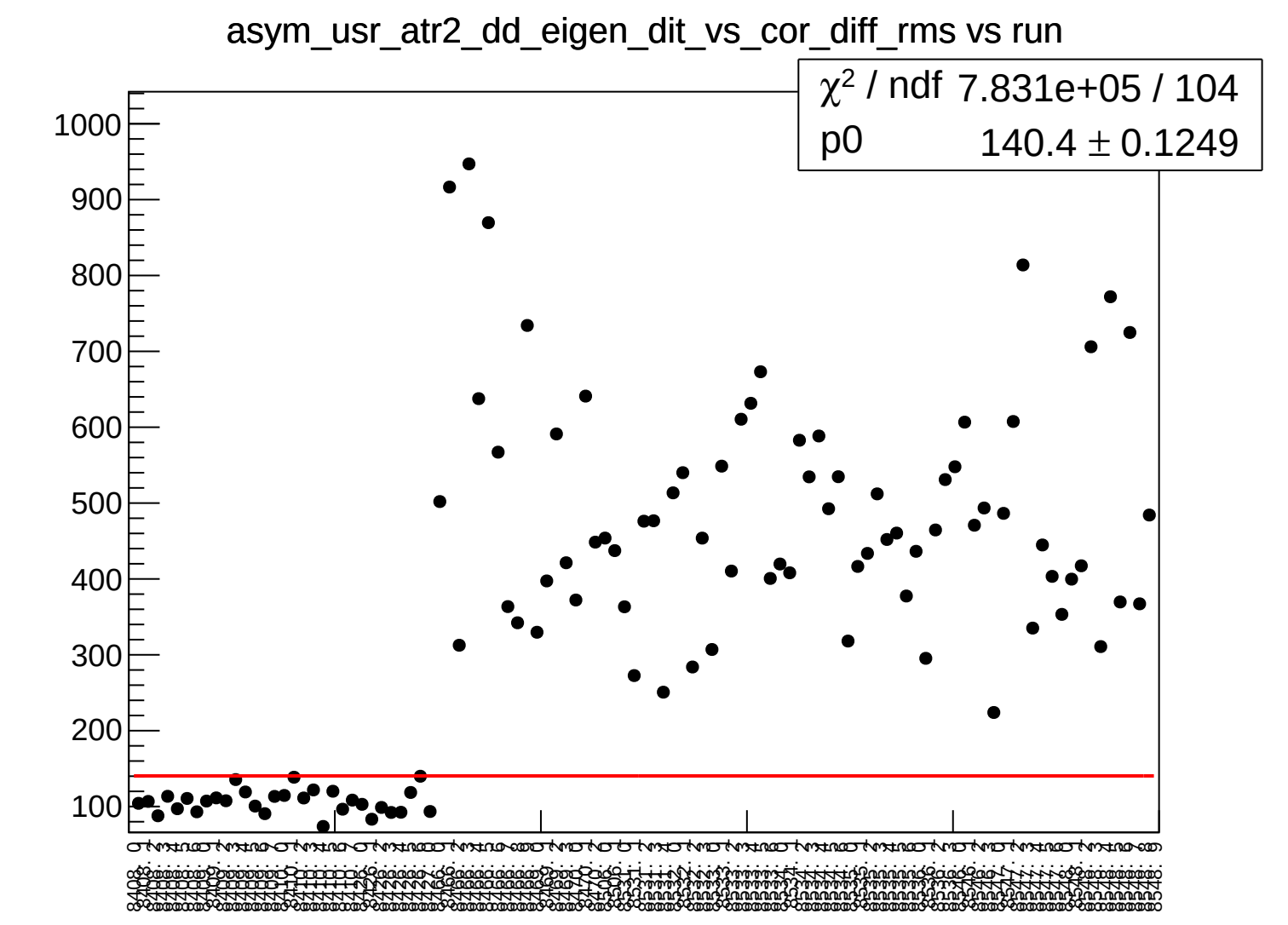

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 99.41 / 104
p0 −5.408e−06 ± 2.209e−06
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 105
Mean 85.17
Std Dev 41.41
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

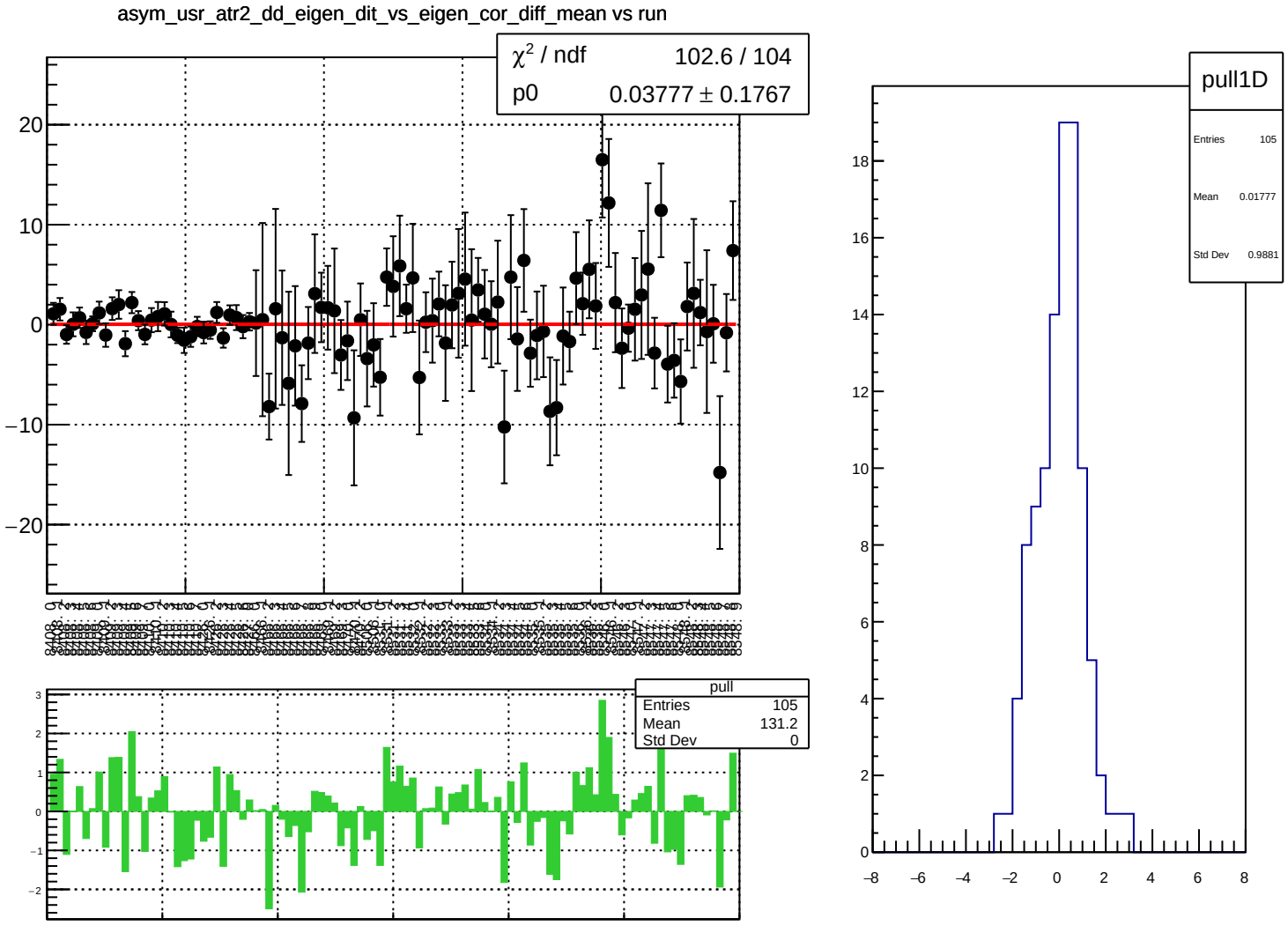

pull1D
Entries 105
Mean 0.07732
Std Dev 0.9699
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

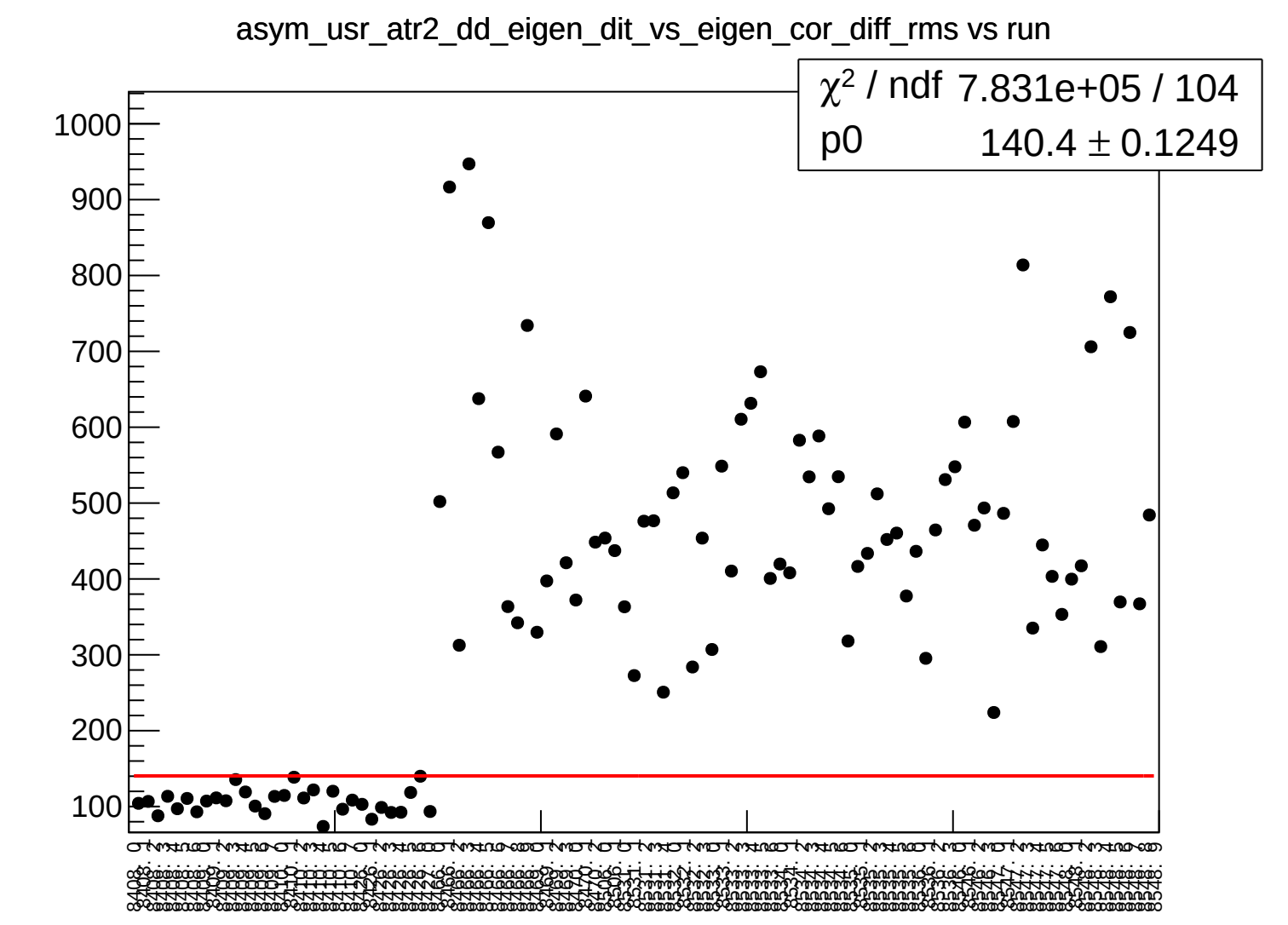

asym_usr_atr2_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.592e+05 / 104
p0 0.001701 ± 1.562e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

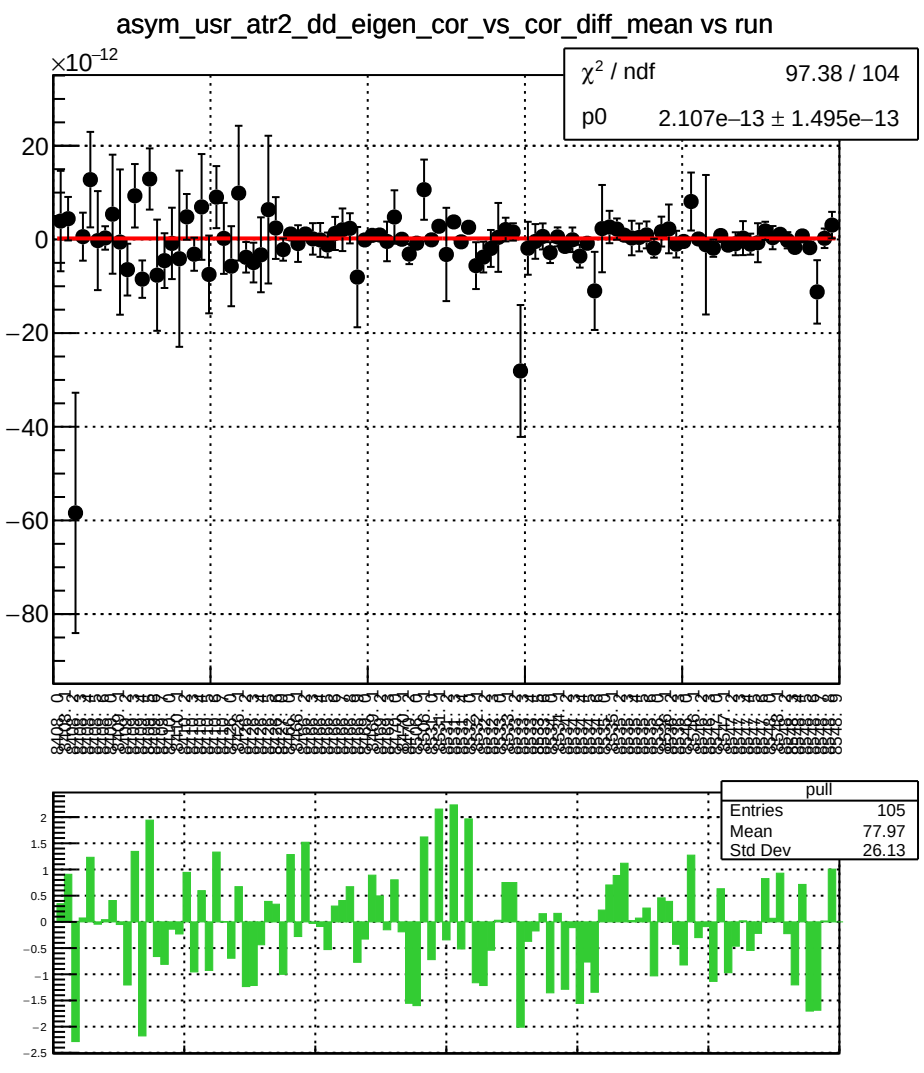

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 102.6 / 104
p0 0.03777 ± 0.1767
20
10
0
−10
−20
pull
Entries 105
Mean 131.2
Std Dev 0
3
2
1
0
−1
−2

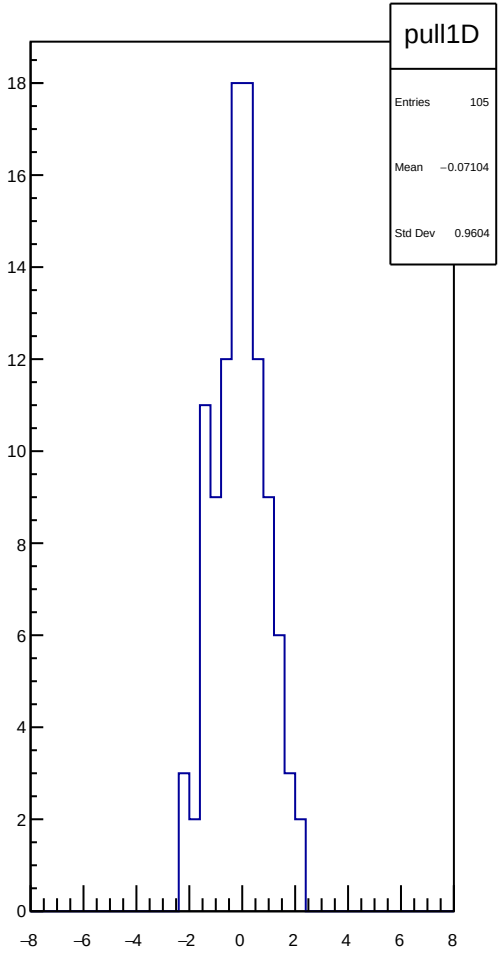

pull1D
Entries 105
Mean 0.01777
Std Dev 0.9881
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

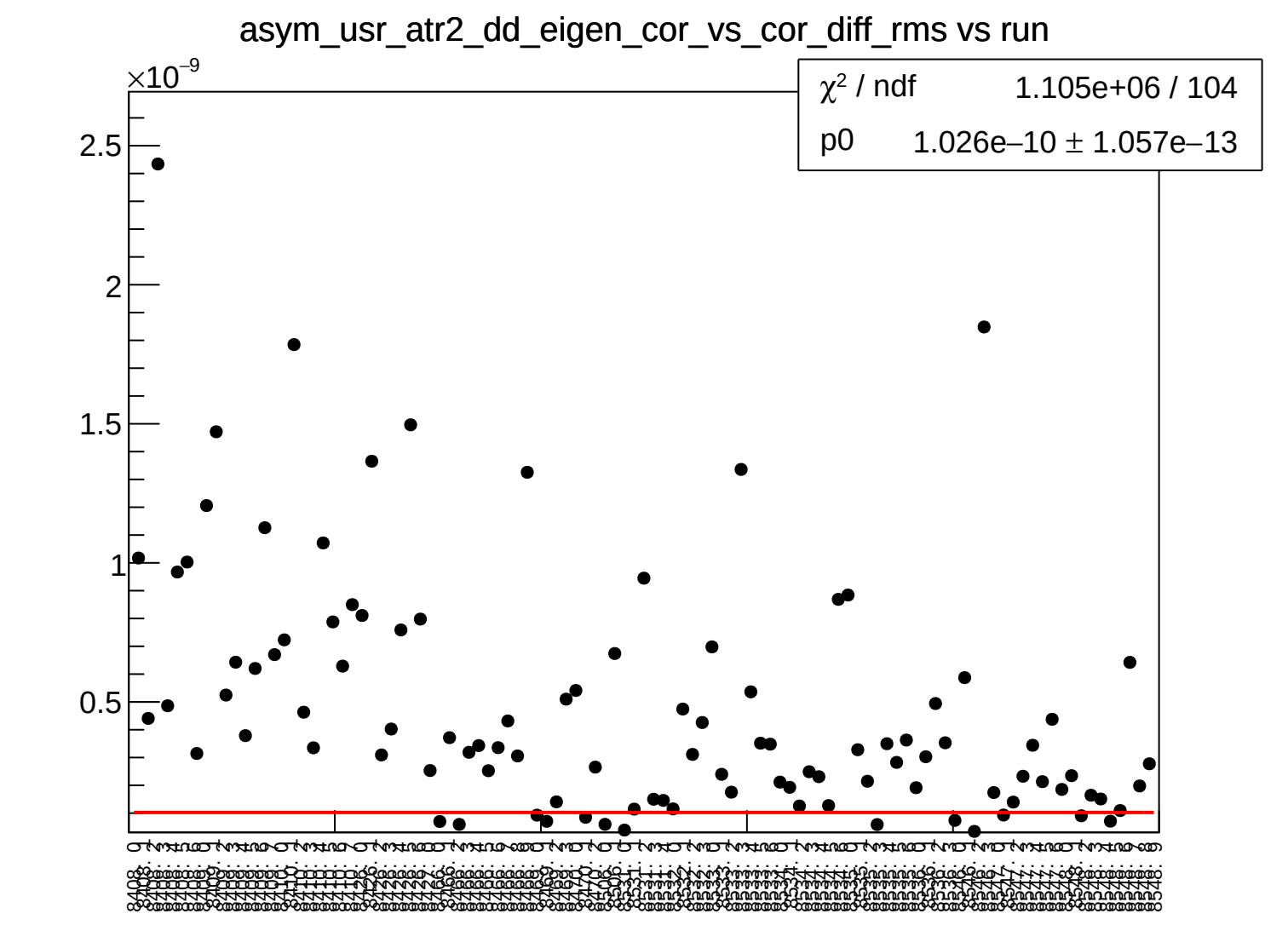

asym_usr_atr2_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.831e+05 / 104
p0 140.4 ± 0.1249
1000
900
800
700
600
500
400
300
200
100

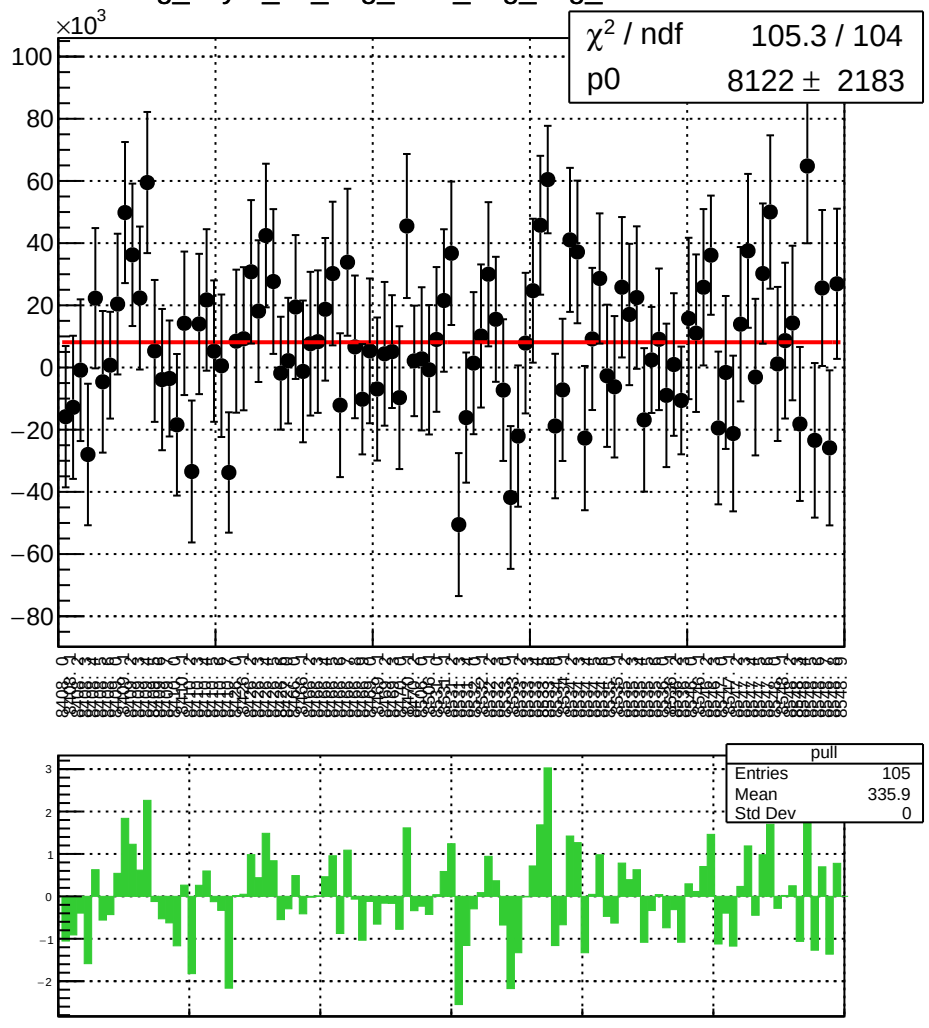

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.6 / 104
p0 0.03777 ± 0.1767
20
10
0
−10
−20
pull
Entries 105
Mean 131.2
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.01777
Std Dev 0.9881
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

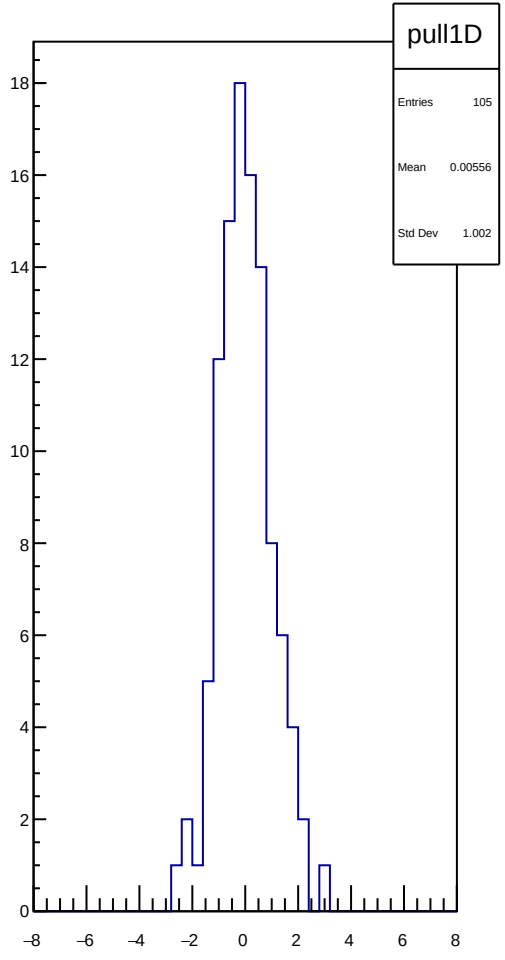

asym_usr_atr2_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.831e+05 / 104
p0 140.4 ± 0.1249
1000
900
800
700
600
500
400
300
200
100

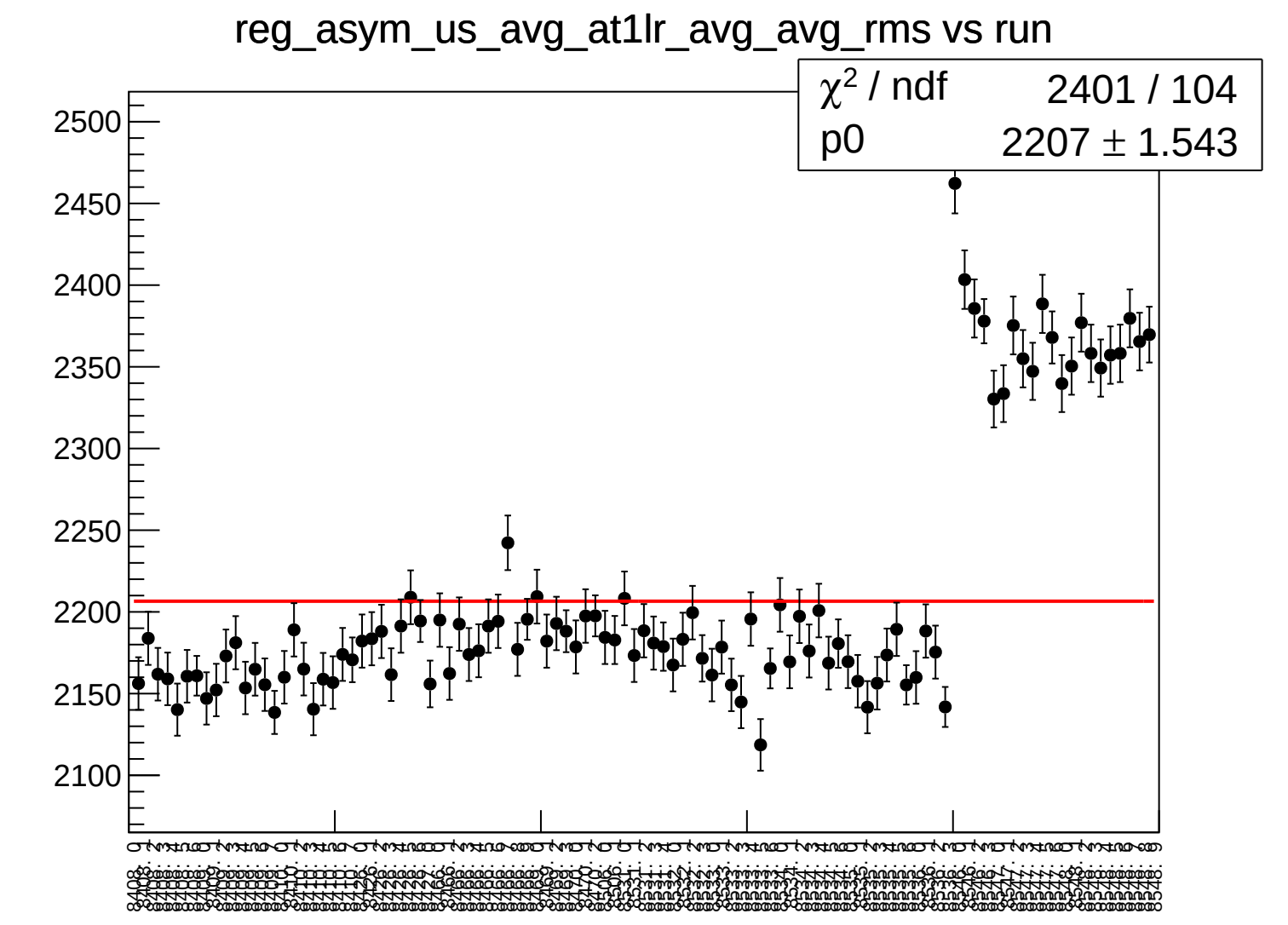

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 97.38 / 104
p0 2.107e−13 ± 1.495e−13
20
0
−20
−40
−60
−80
pull
Entries 105
Mean 77.97
Std Dev 26.13
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

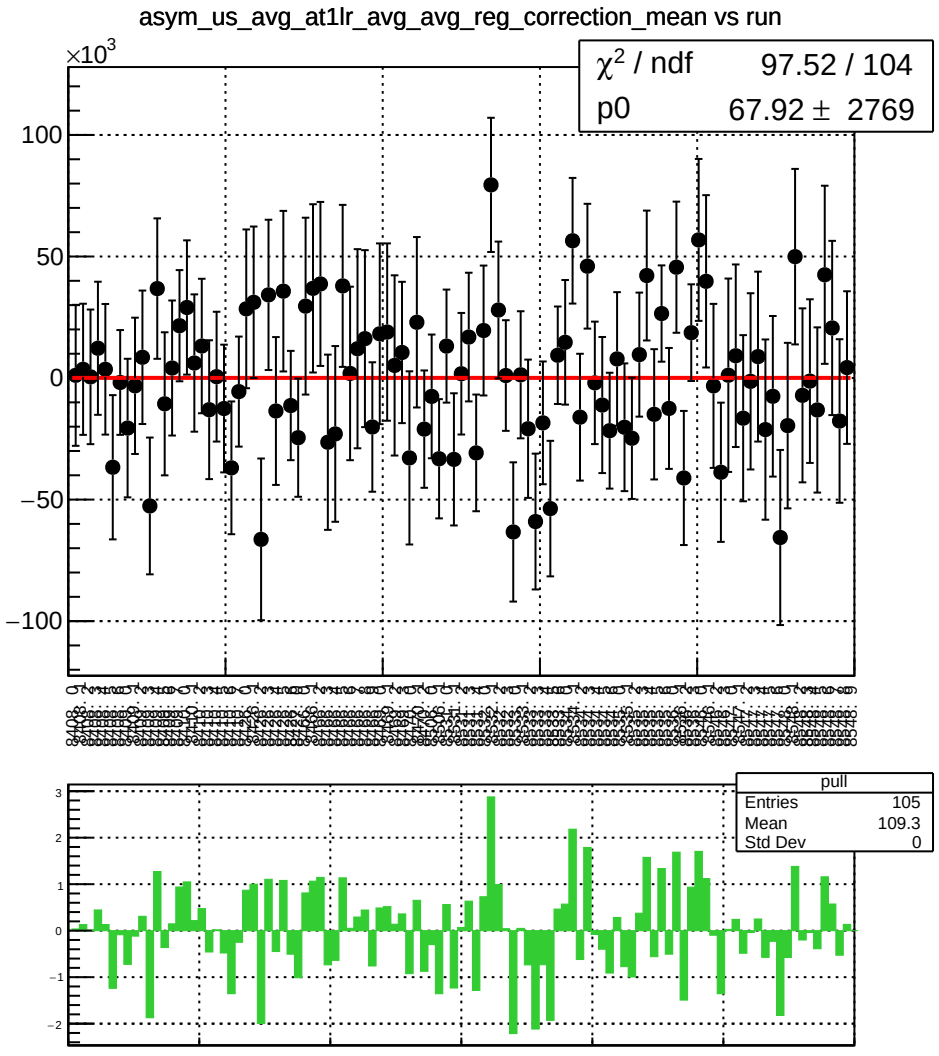

pull1D
Entries 105
Mean −0.07104
Std Dev 0.9604
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

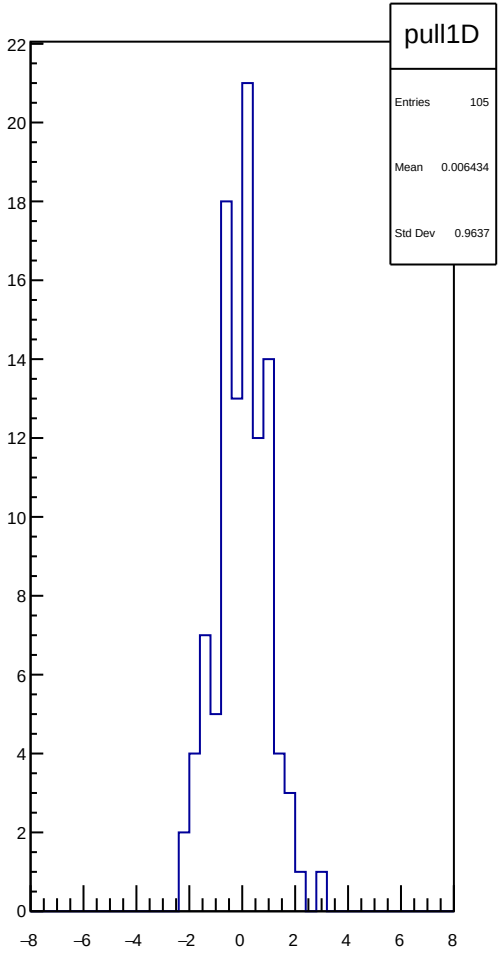

asym_usr_atr2_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.105e+06 / 104
p0 1.026e−10 ± 1.057e−13
2.5
2
1.5
1
0.5

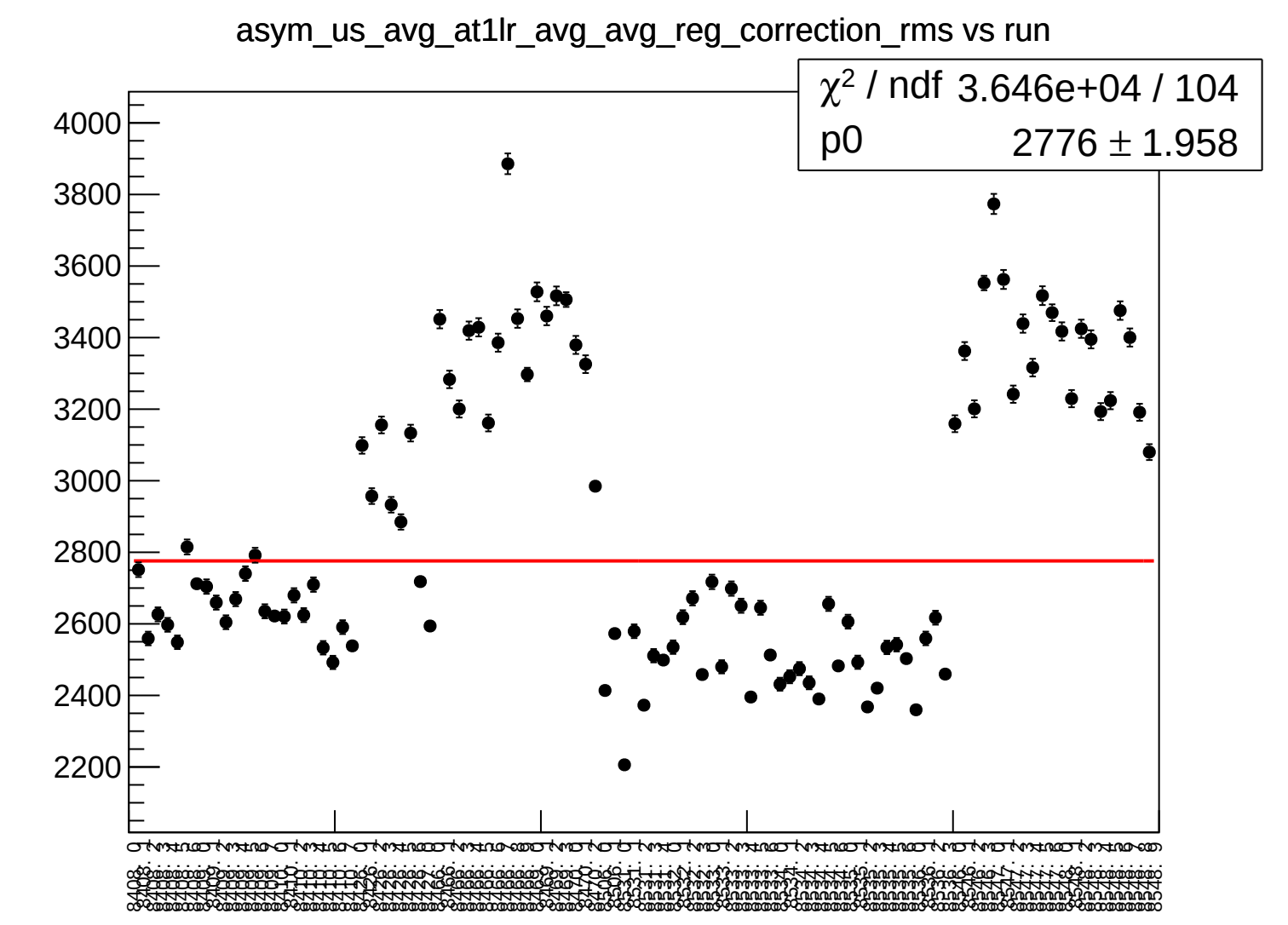

reg_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 105.3 / 104
p0 8122 ± 2183
100
80
60
40
20
0
−20
−40
−60
−80
pull
Entries 105
Mean 335.9
Std Dev 0
3
2
1
0
−1
−2

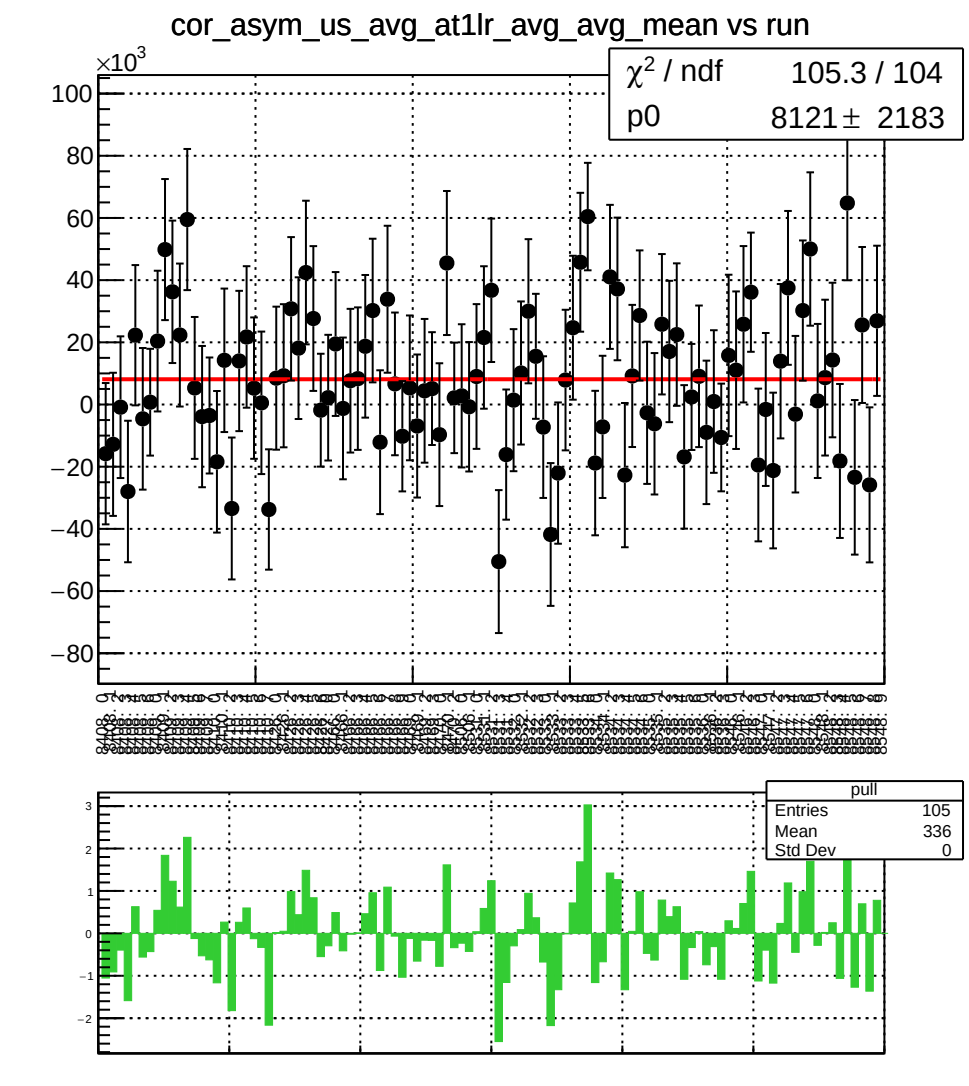

pull1D
Entries 105
Mean 0.00556
Std Dev 1.002
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

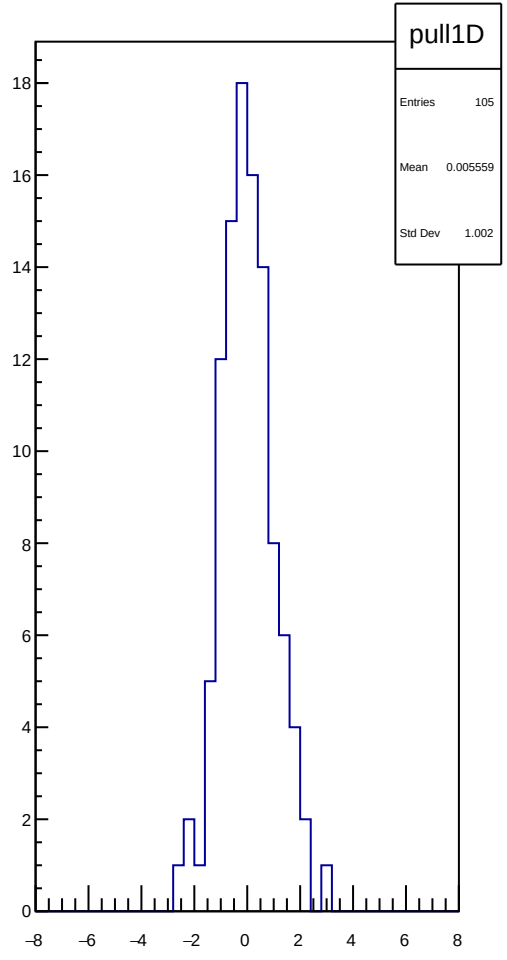

reg_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 2401 / 104
p0 2207 ± 1.543
2500
2450
2400
2350
2300
2250
2200
2150
2100

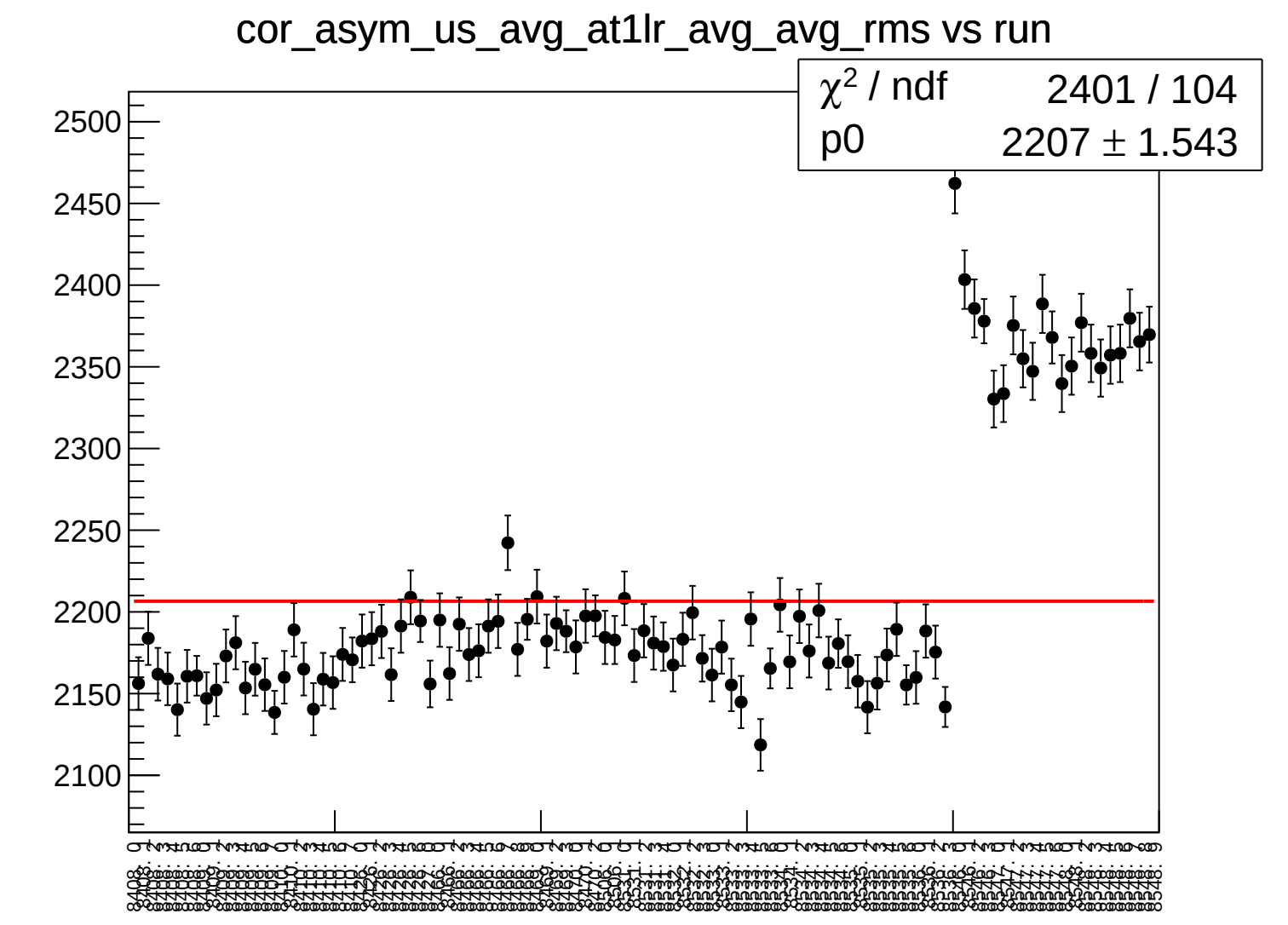

asym_us_avg_at1lr_avg_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 97.52 / 104
p0 67.92 ± 2769
100
50
0
−50
−100
pull
Entries 105
Mean 109.3
Std Dev 0
3
2
1
0
−1
−2

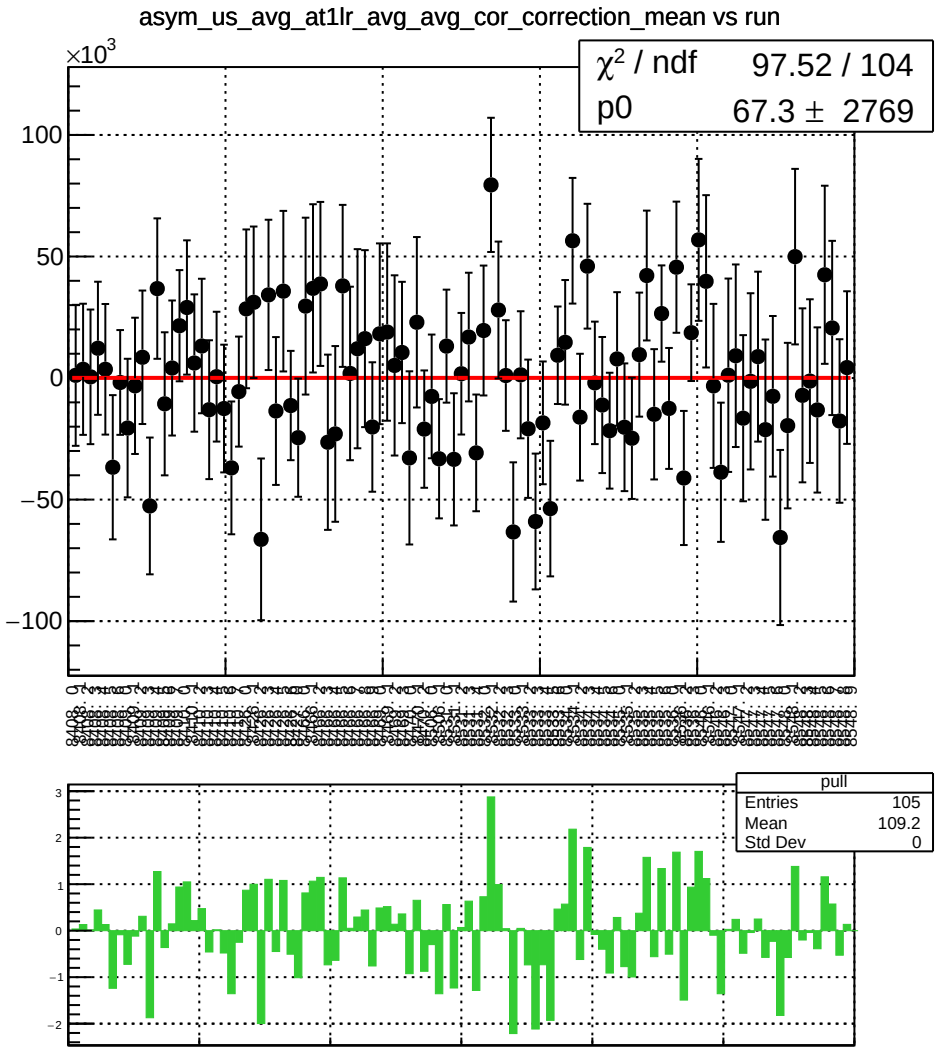

pull1D
Entries 105
Mean 0.006434
Std Dev 0.9637
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

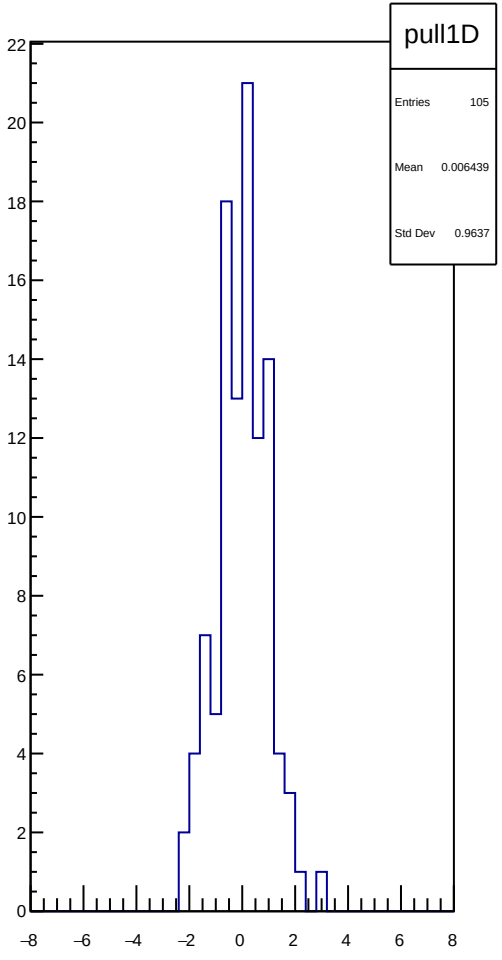

asym_us_avg_at1lr_avg_avg_reg_correction_rms vs run
χ^2 / ndf 3.646e+04 / 104
p0 2776 ± 1.958
4000
3800
3600
3400
3200
3000
2800
2600
2400
2200

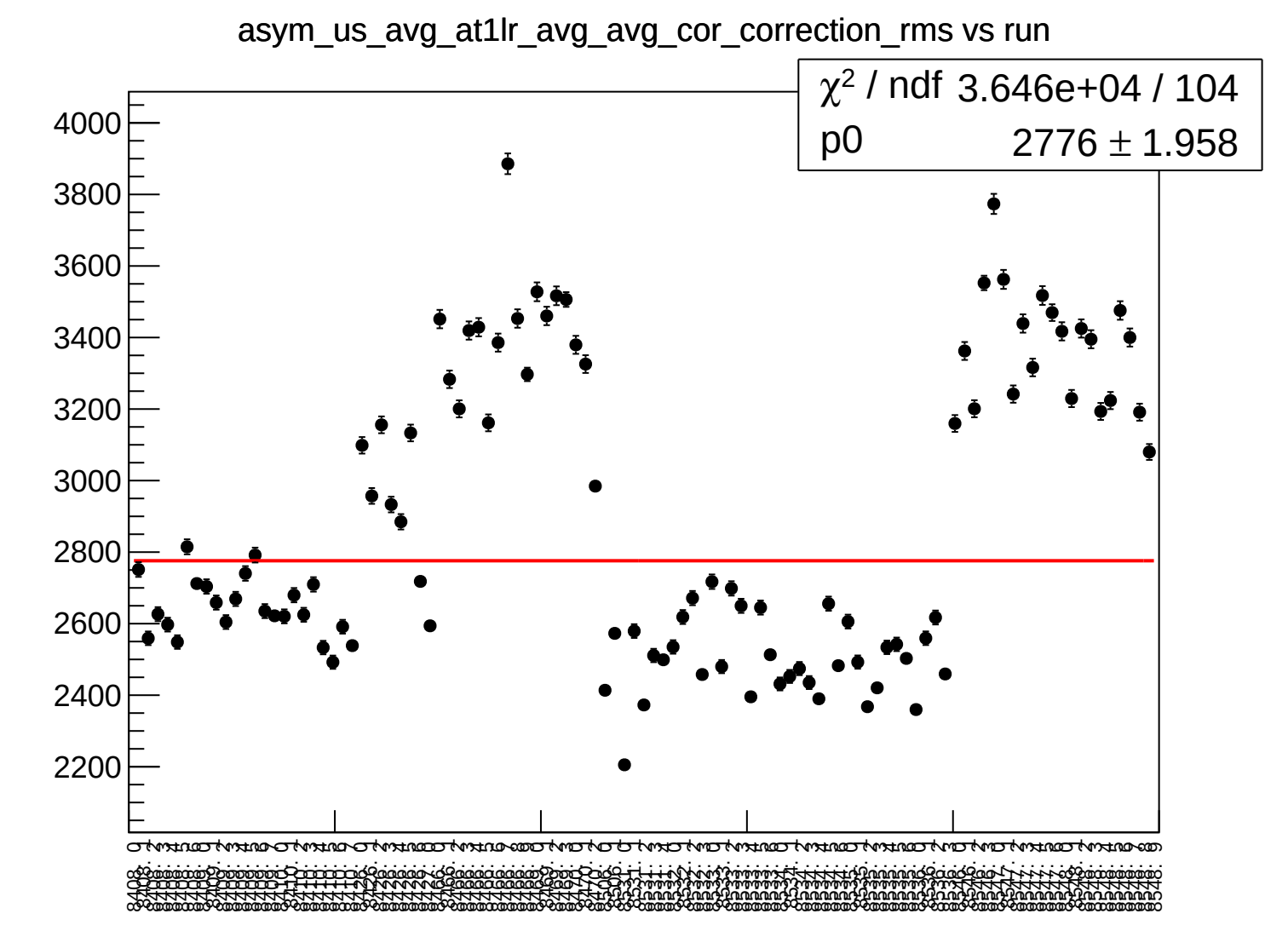

cor_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 105.3 / 104
p0 8121 ± 2183
100
80
60
40
20
0
−20
−40
−60
−80
pull
Entries 105
Mean 336
Std Dev 0
3
2
1
0
−1
−2

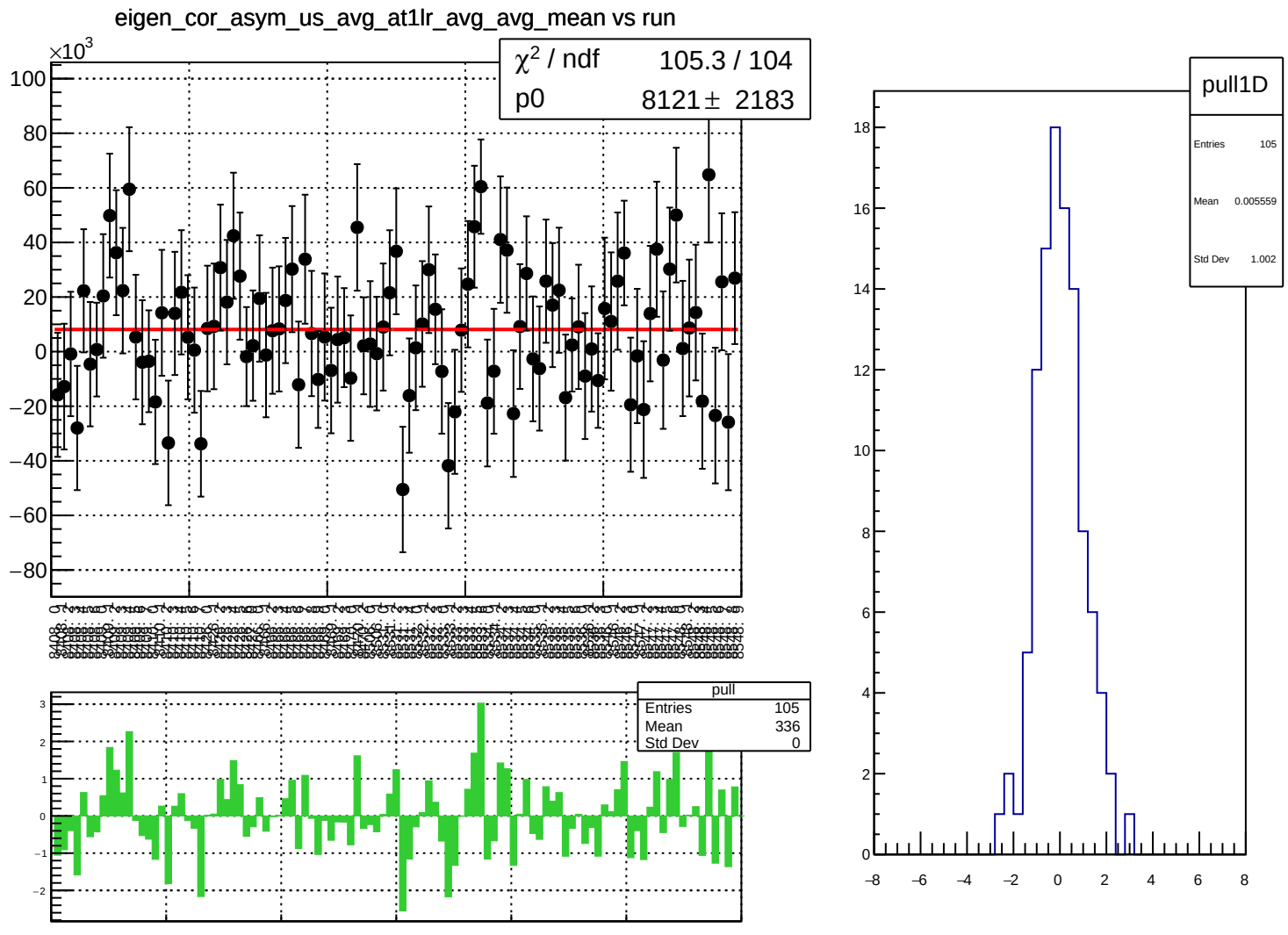

pull1D
Entries 105
Mean 0.005559
Std Dev 1.002
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

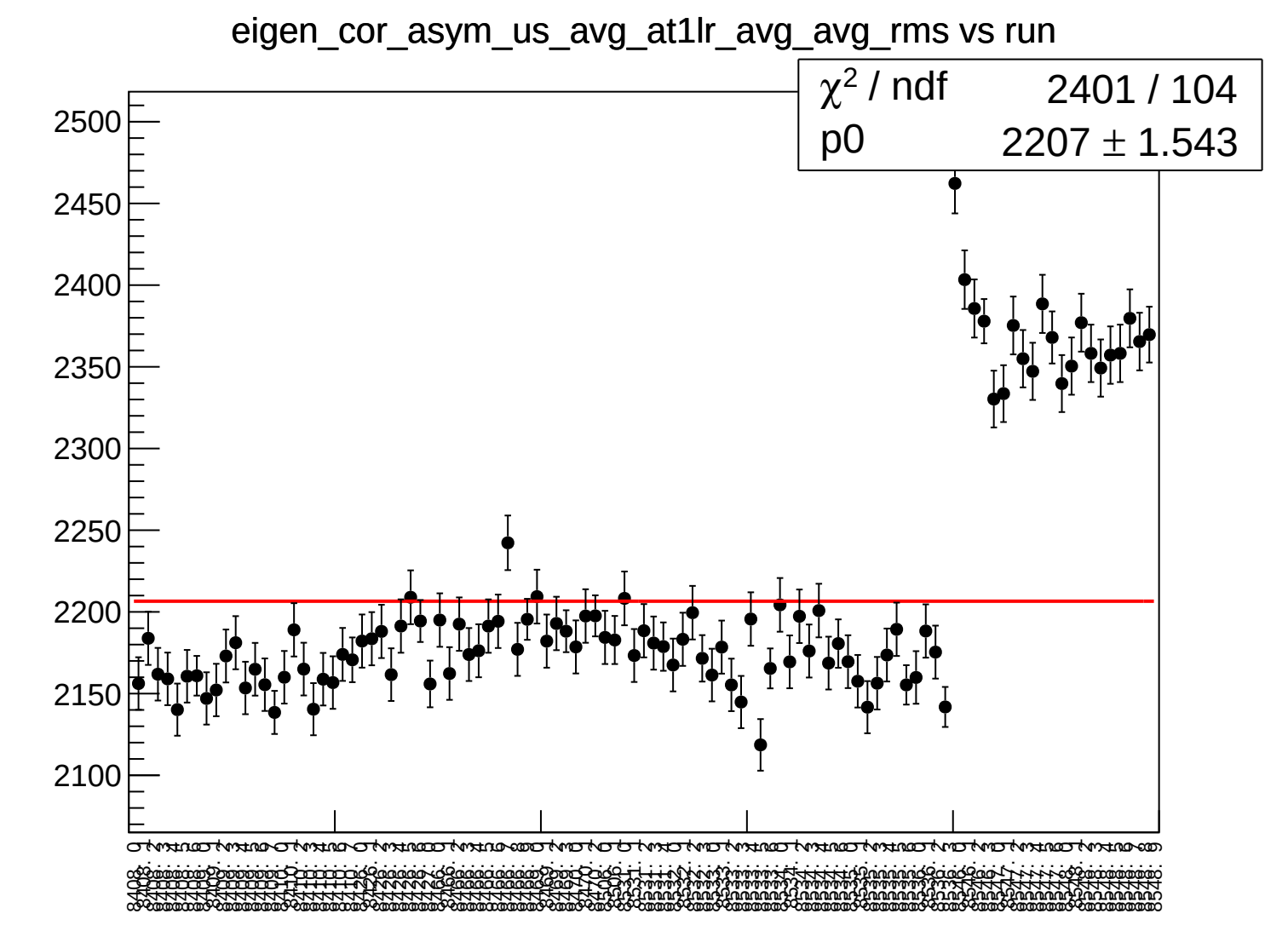

cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 2401 / 104
p0 2207 ± 1.543
2500
2450
2400
2350
2300
2250
2200
2150
2100

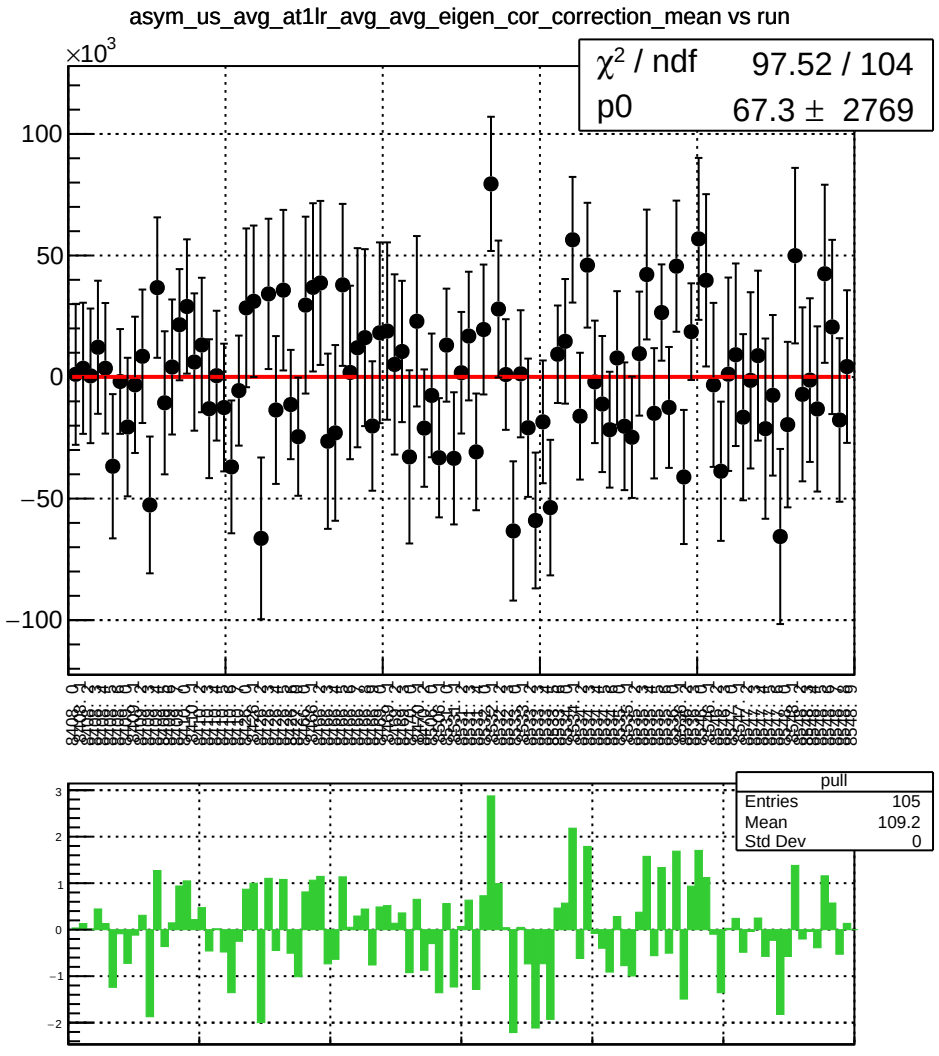

asym_us_avg_at1lr_avg_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 97.52 / 104
p0 67.3 ± 2769
100
50
0
−50
−100
pull
Entries 105
Mean 109.2
Std Dev 0
3
2
1
0
−1
−2

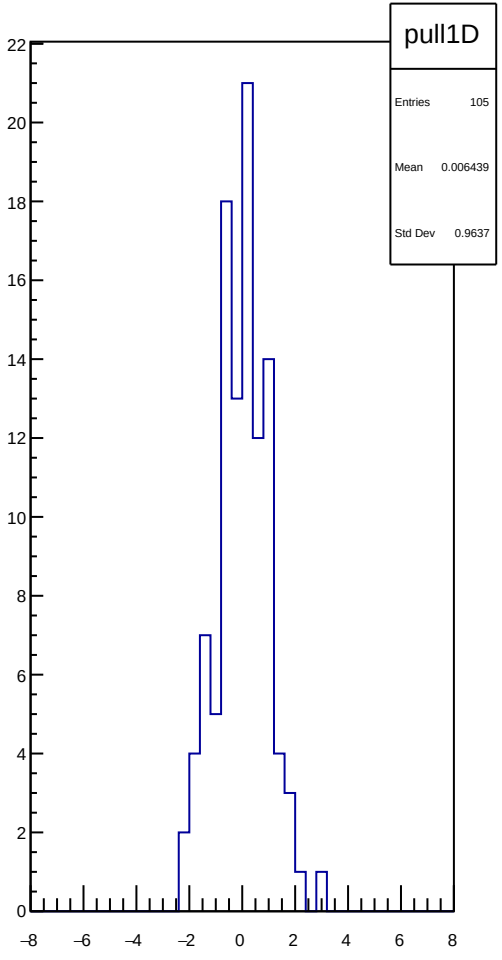

pull1D
Entries 105
Mean 0.006439
Std Dev 0.9637
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

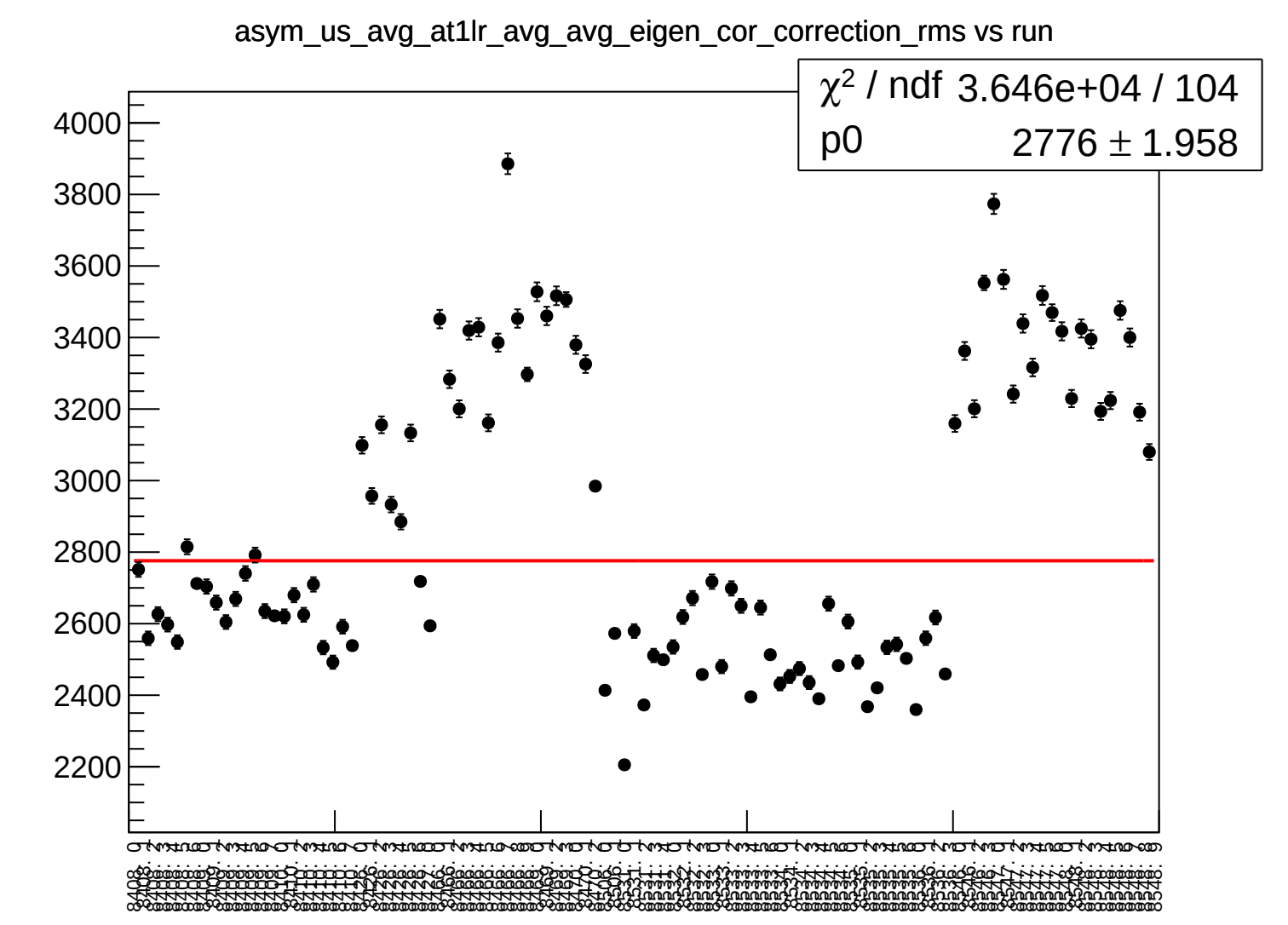

asym_us_avg_at1lr_avg_avg_cor_correction_rms vs run
χ^2 / ndf 3.646e+04 / 104
p0 2776 ± 1.958
4000
3800
3600
3400
3200
3000
2800
2600
2400
2200

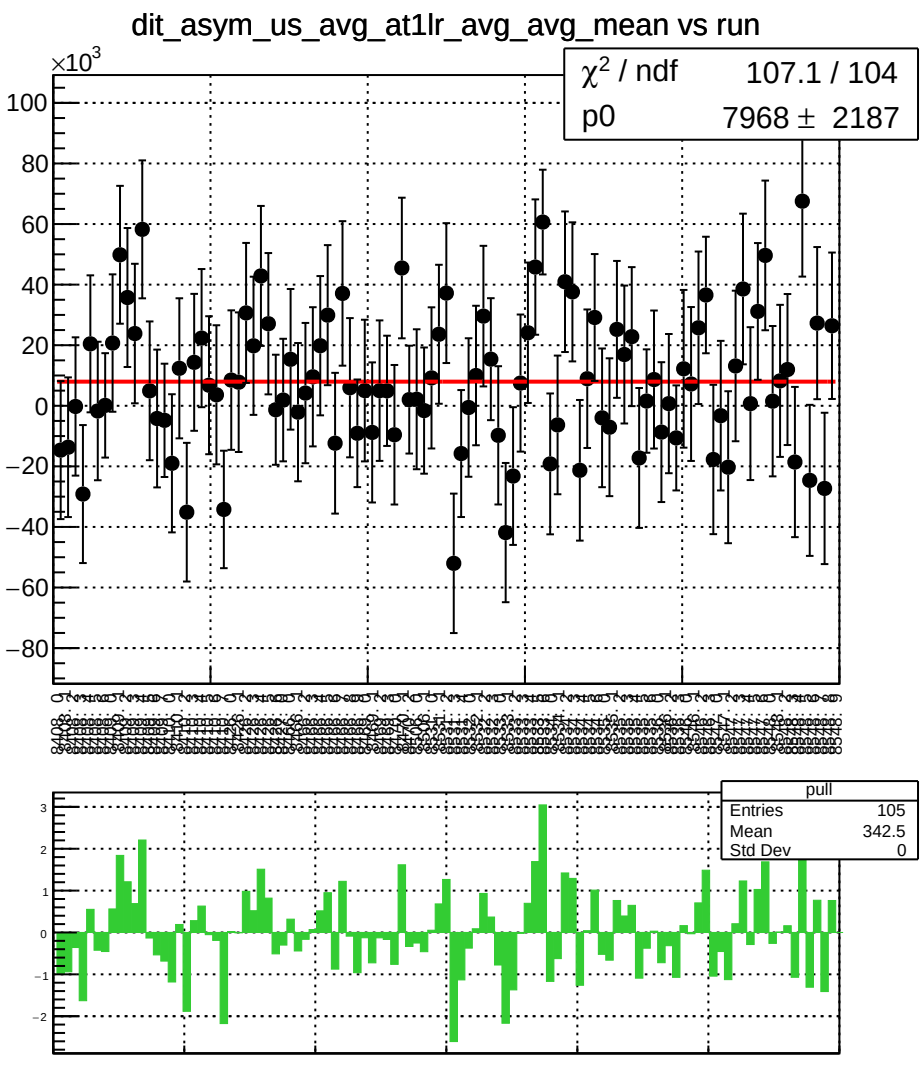

eigen_cor_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 105.3 / 104
p0 8121 ± 2183
pull
Entries 105
Mean 336
Std Dev 0
pull1D
Entries 105
Mean 0.005559
Std Dev 1.002

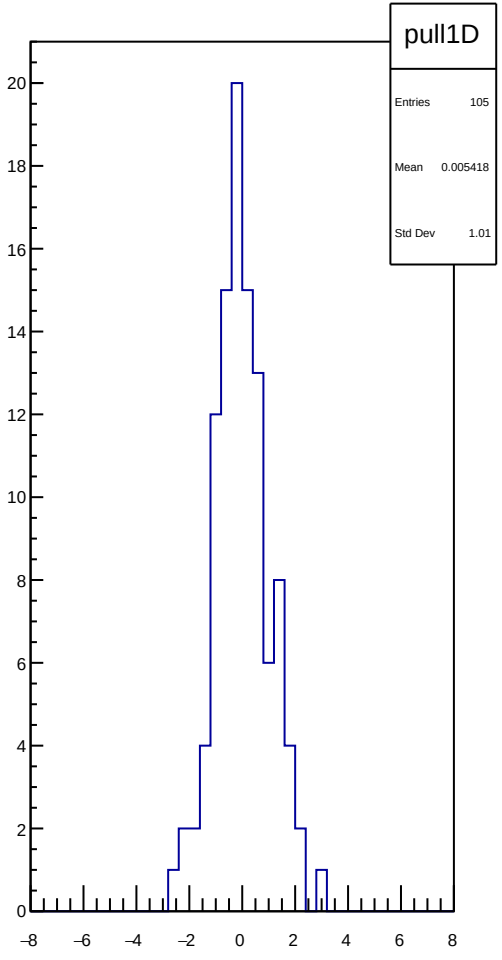

eigen_cor_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 2401 / 104
p0 2207 ± 1.543
2500
2450
2400
2350
2300
2250
2200
2150
2100

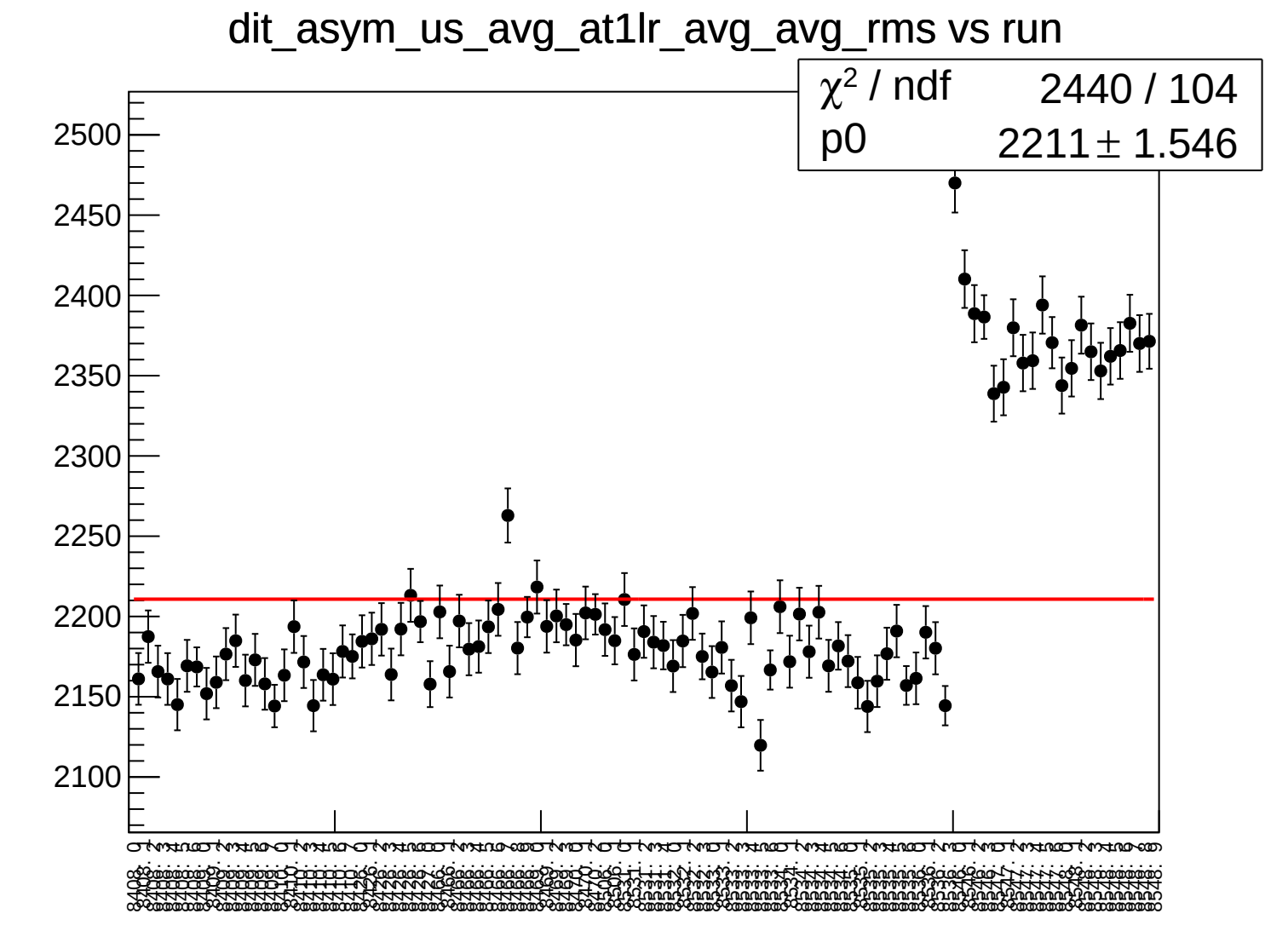

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 97.52 / 104
p0 67.3 ± 2769
100
50
0
−50
−100
pull
Entries 105
Mean 109.2
Std Dev 0
3
2
1
0
−1
−2

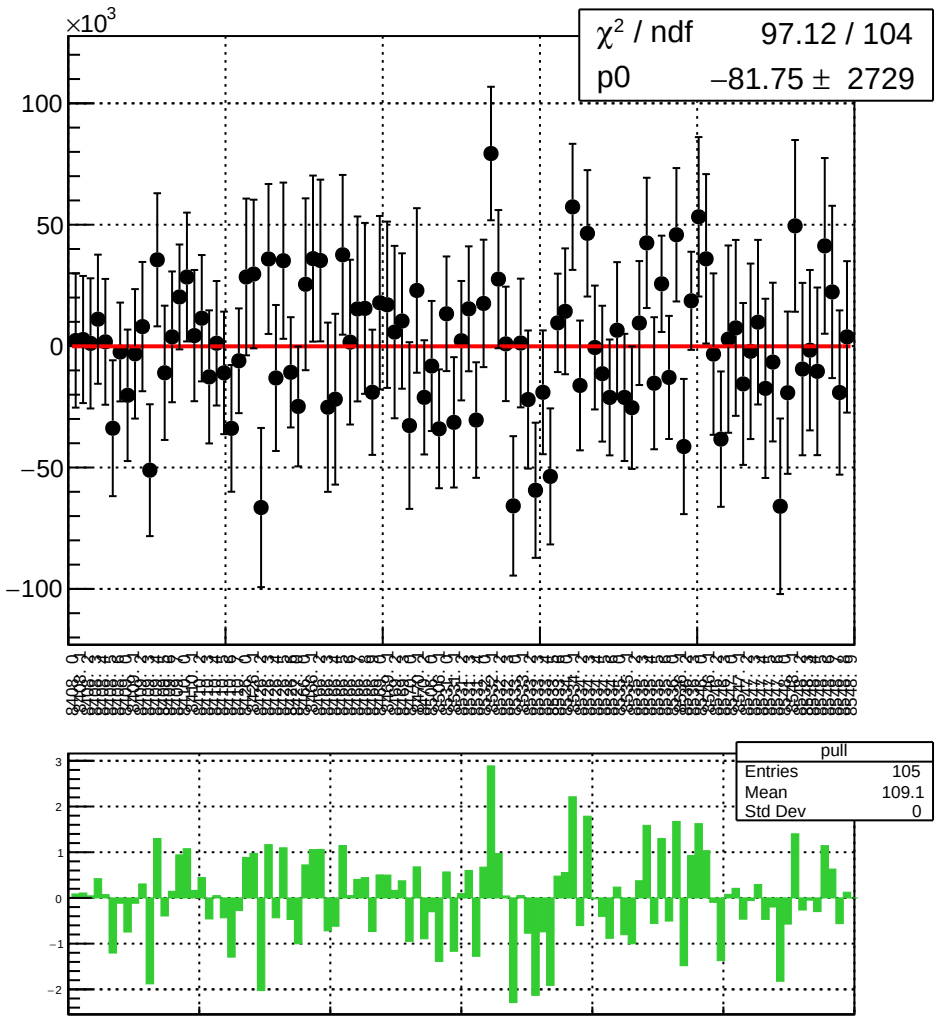

pull1D
Entries 105
Mean 0.006439
Std Dev 0.9637
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

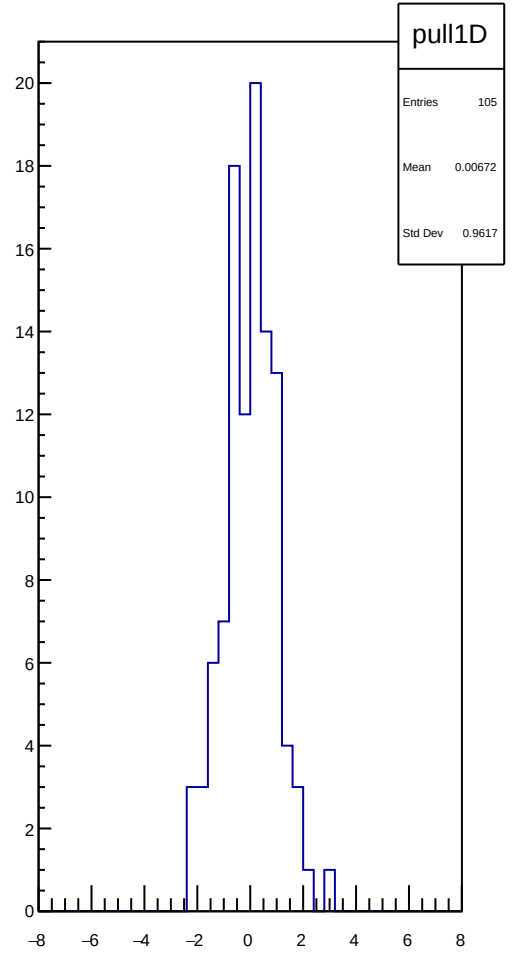

asym_us_avg_at1lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.646e+04 / 104
p0 2776 ± 1.958
4000
3800
3600
3400
3200
3000
2800
2600
2400
2200

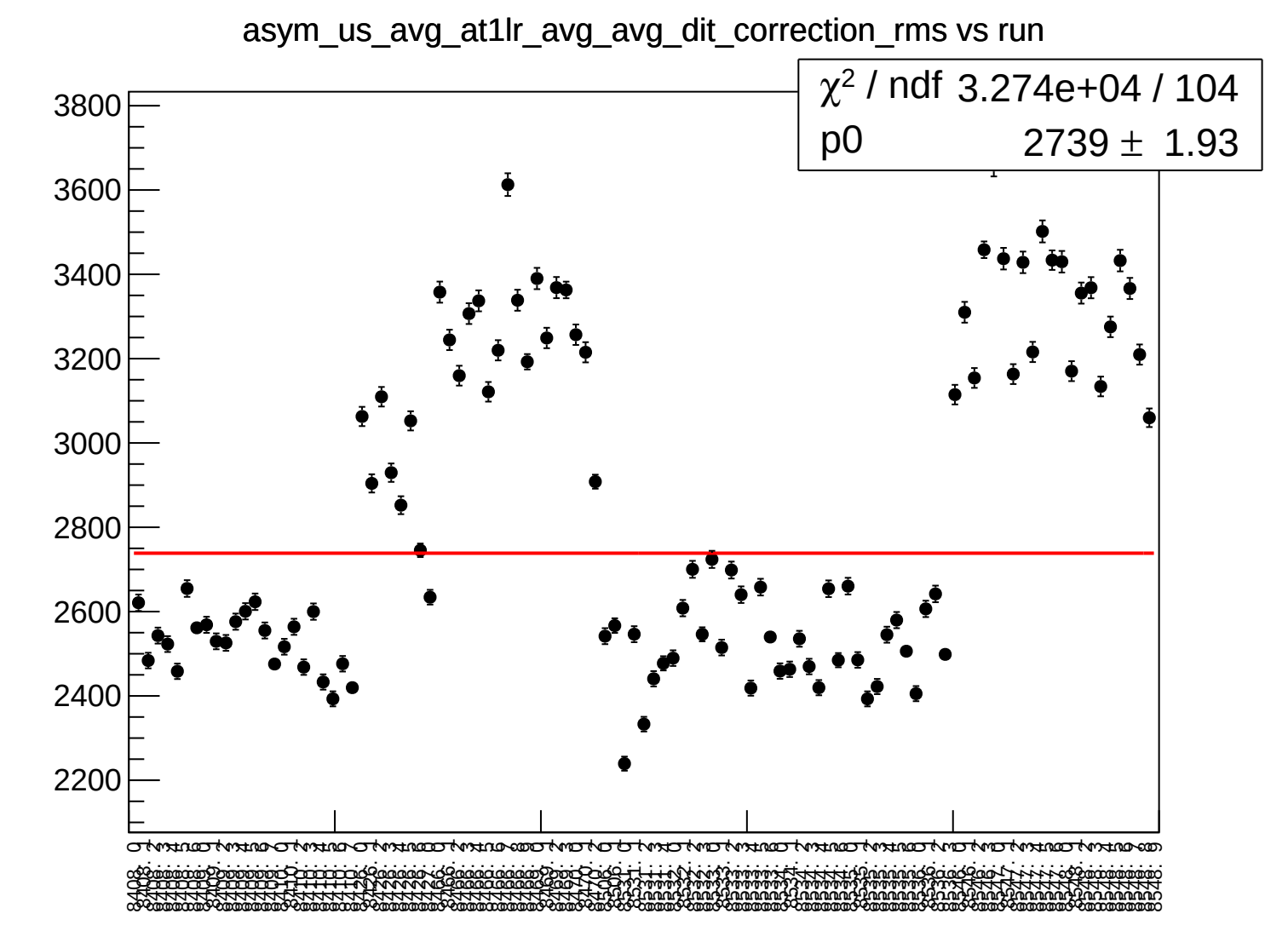

dit_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 107.1 / 104
p0 7968 ± 2187
pull
Entries 105
Mean 342.5
Std Dev 0

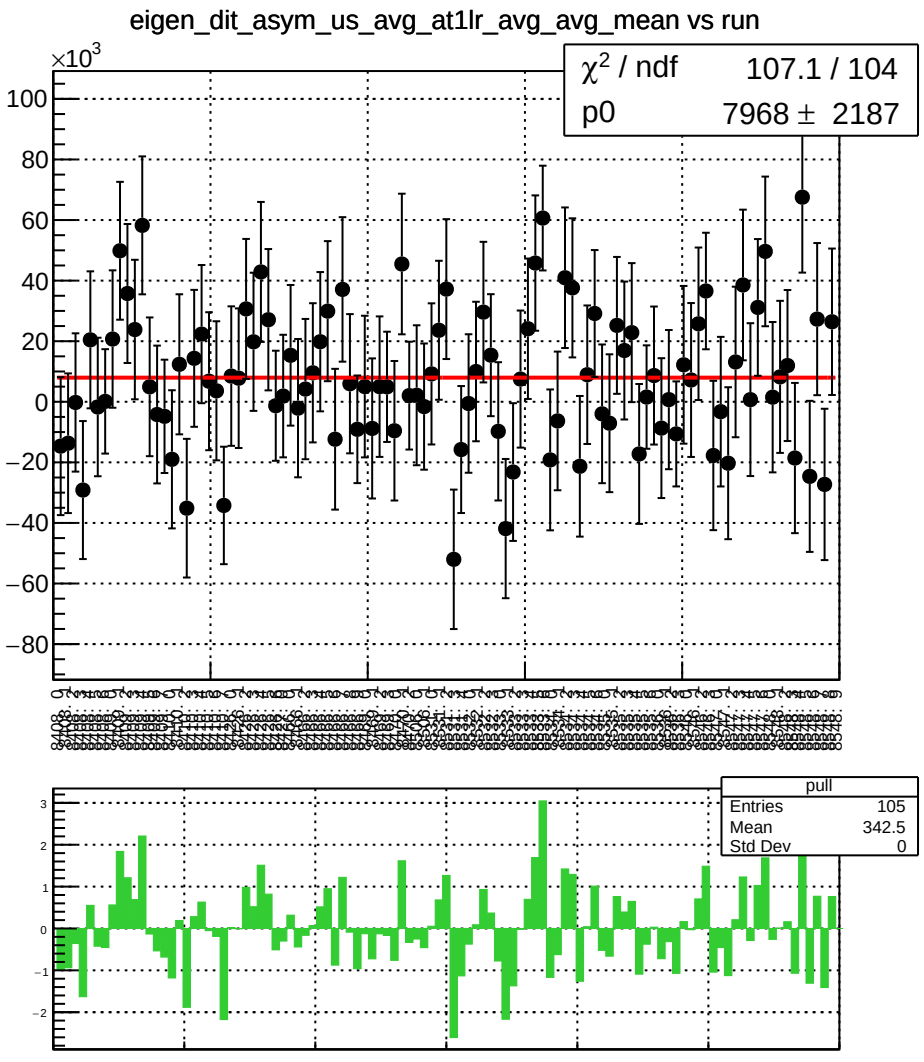

pull1D
Entries 105
Mean 0.005418
Std Dev 1.01

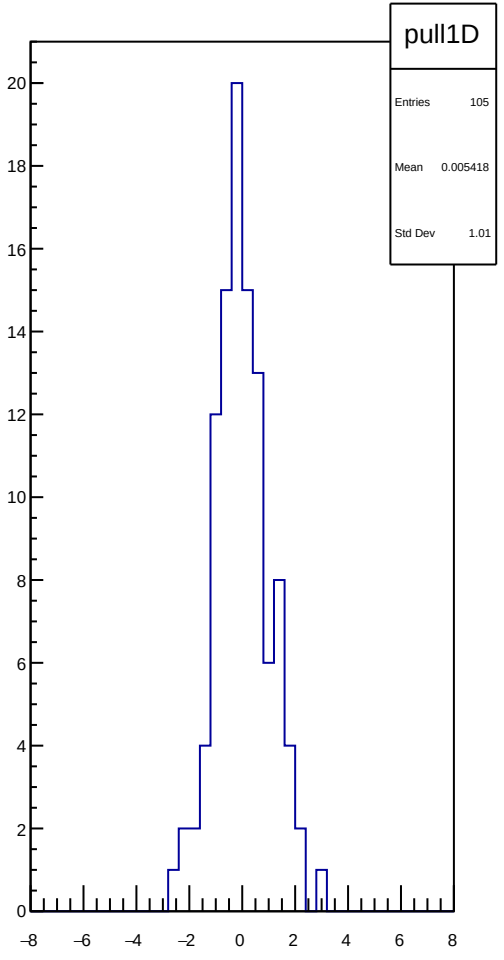

dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 2440 / 104
p0 2211 ± 1.546
2500
2450
2400
2350
2300
2250
2200
2150
2100

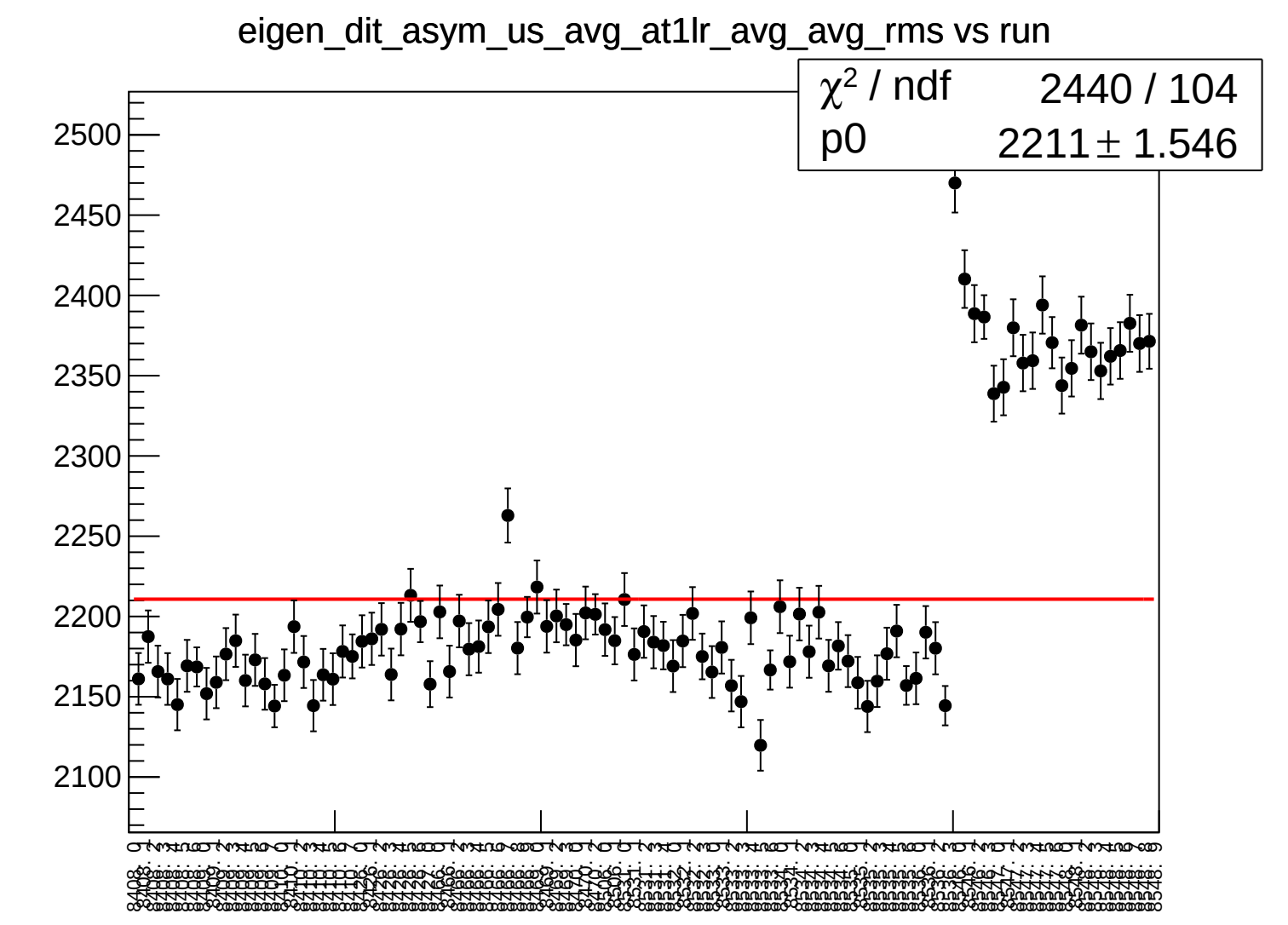

asym_us_avg_at1lr_avg_avg_dit_correction_mean vs run
×10^3
χ² / ndf 97.12 / 104
p0 −81.75 ± 2729
100
50
0
−50
−100
pull
Entries 105
Mean 109.1
Std Dev 0
3
2
1
0
−1
−2

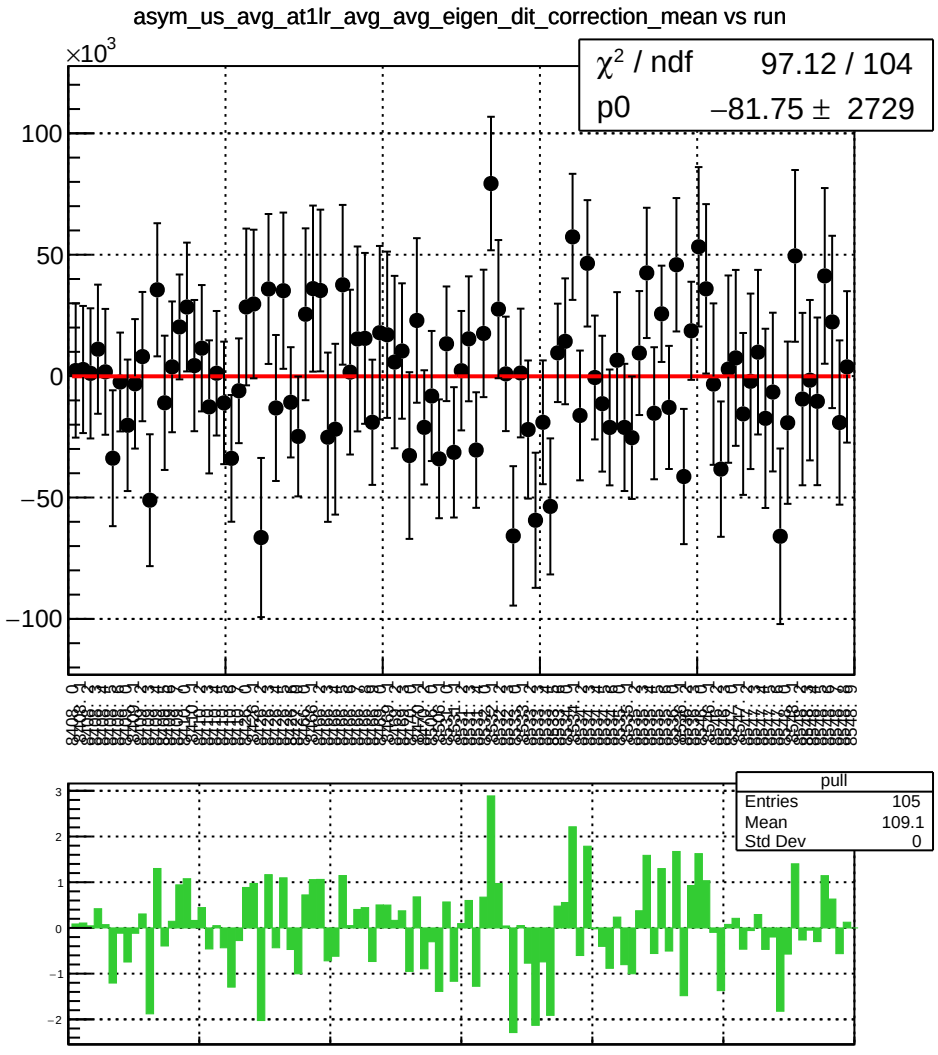

pull1D
Entries 105
Mean 0.00672
Std Dev 0.9617
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

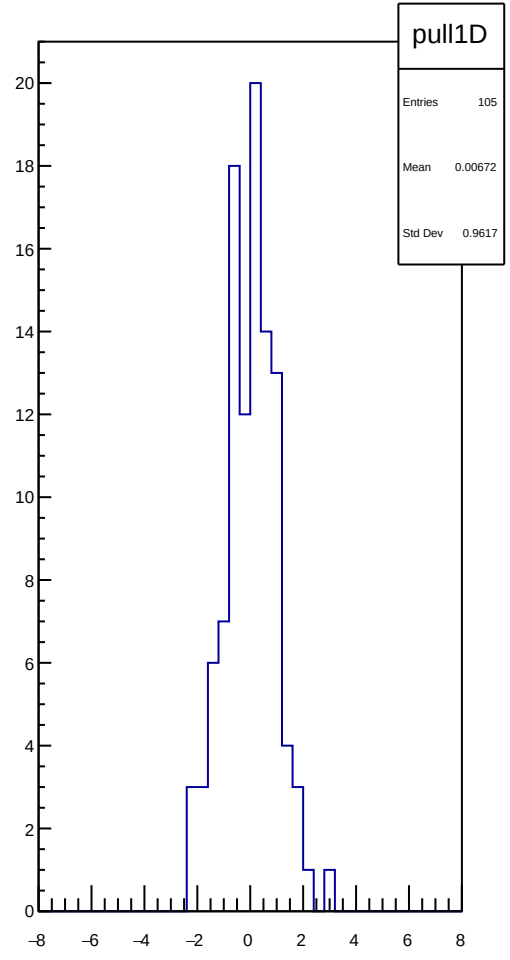

asym_us_avg_at1lr_avg_avg_dit_correction_rms vs run
χ² / ndf 3.274e+04 / 104
p0 2739 ± 1.93
3800
3600
3400
3200
3000
2800
2600
2400
2200

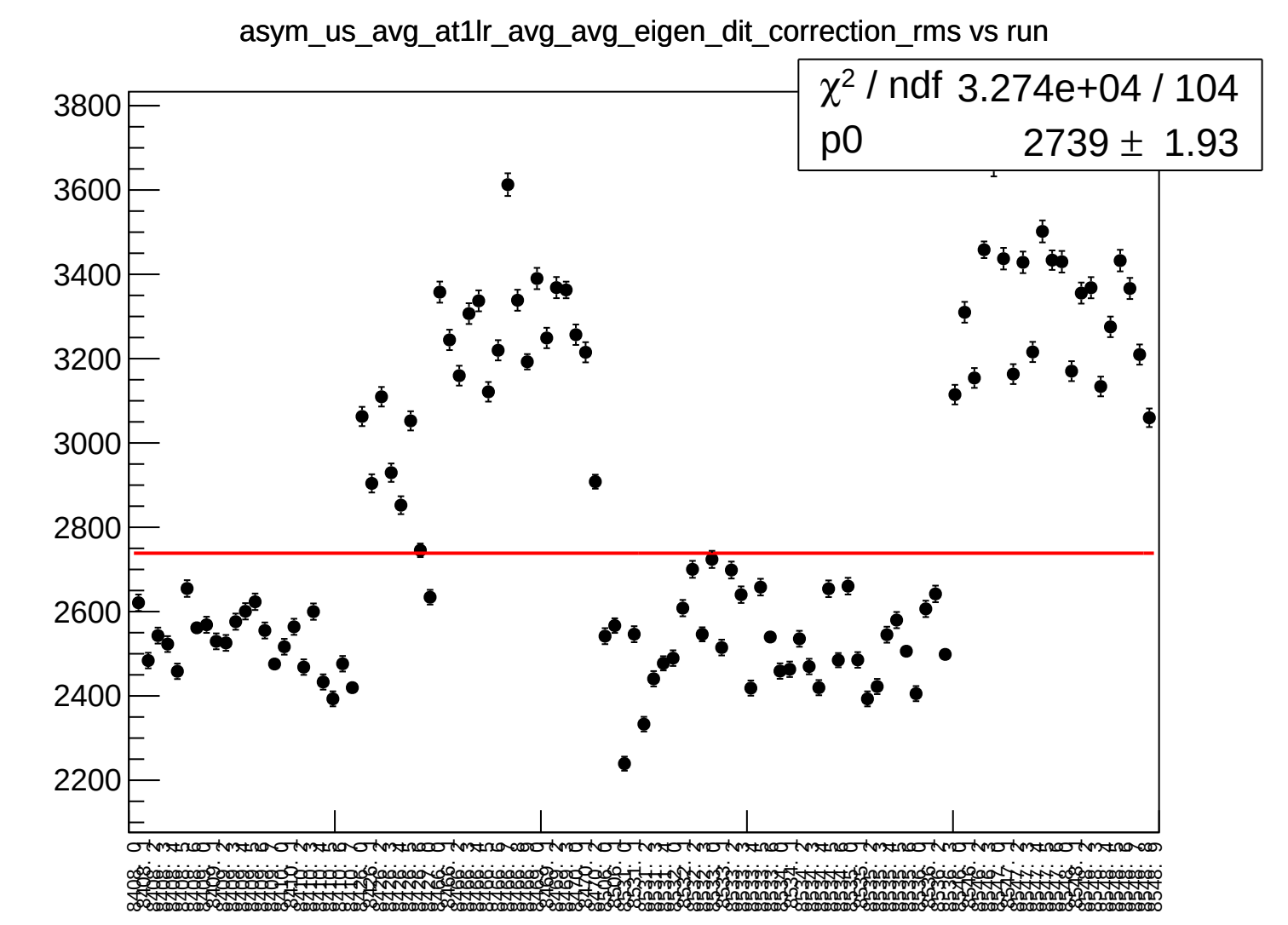

eigen_dit_asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 107.1 / 104
p0 7968 ± 2187
pull
Entries 105
Mean 342.5
Std Dev 0

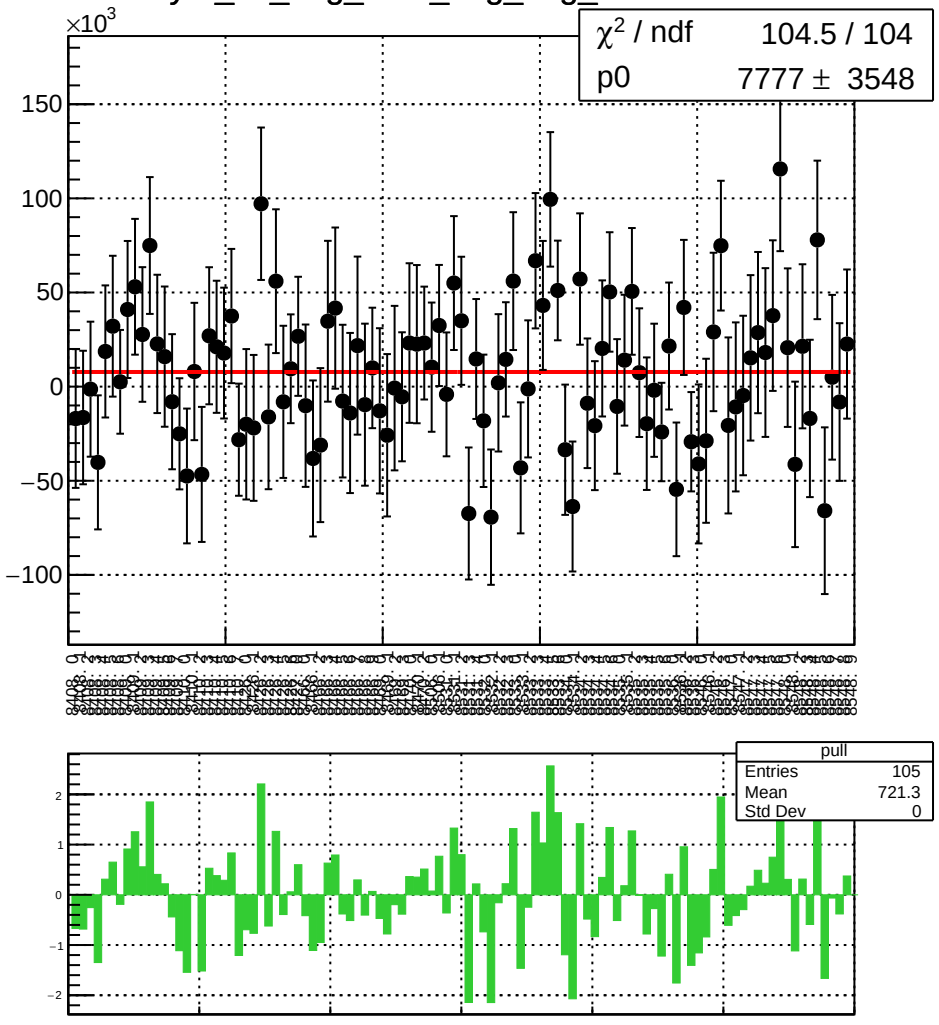

pull1D
Entries 105
Mean 0.005418
Std Dev 1.01

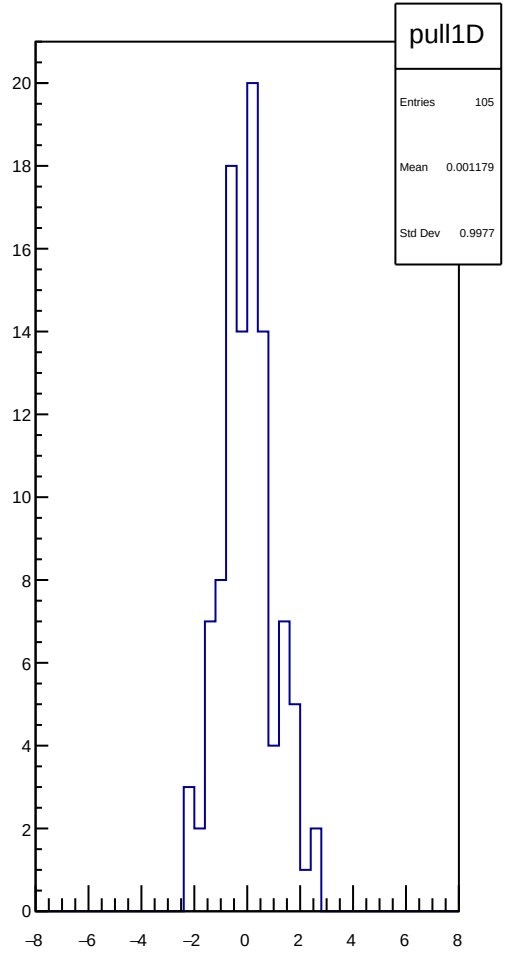

eigen_dit_asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 2440 / 104
p0 2211 ± 1.546
2500
2450
2400
2350
2300
2250
2200
2150
2100

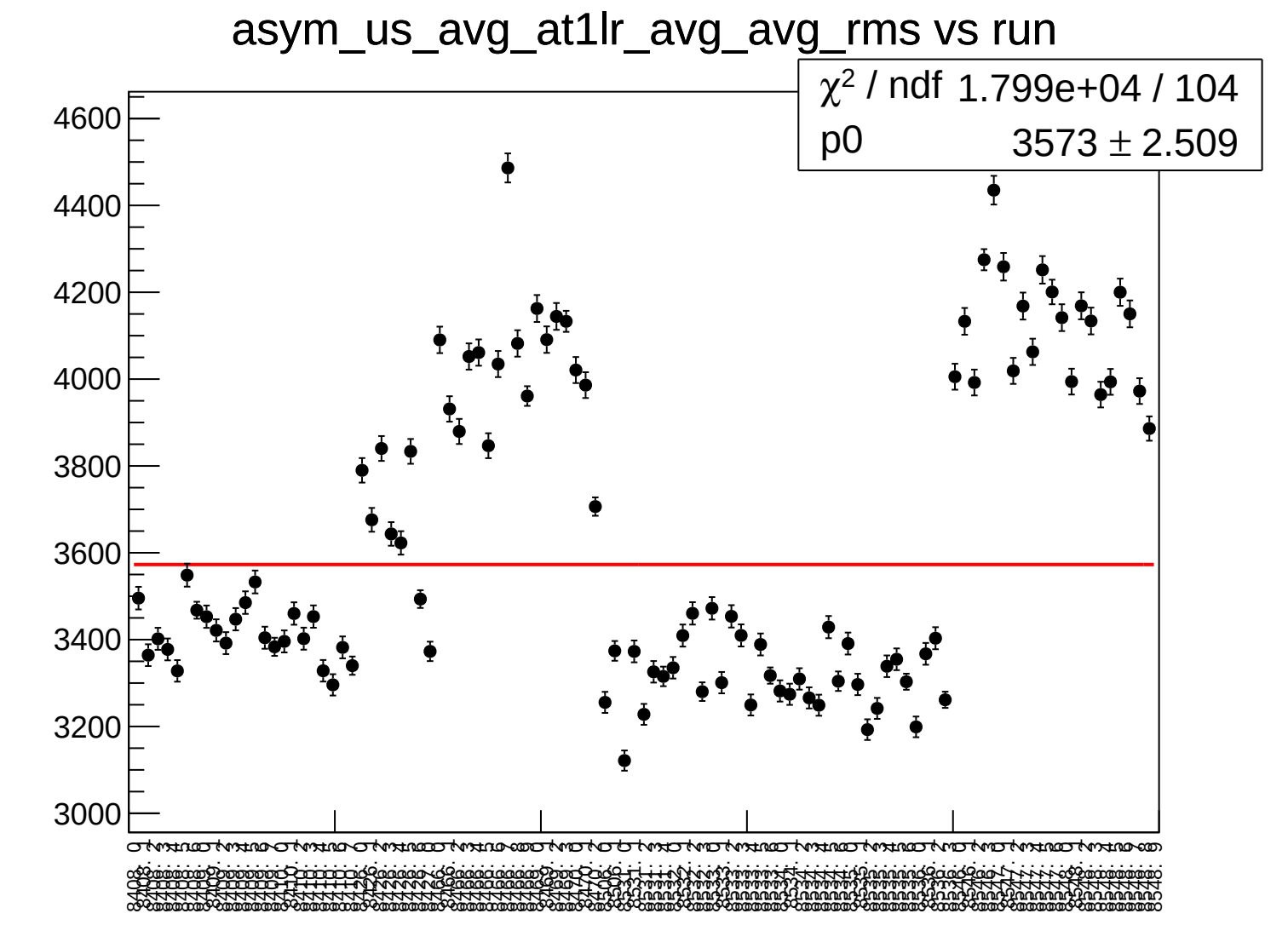

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 97.12 / 104
p0 −81.75 ± 2729
100
50
0
−50
−100
pull
Entries 105
Mean 109.1
Std Dev 0
3
2
1
0
−1
−2

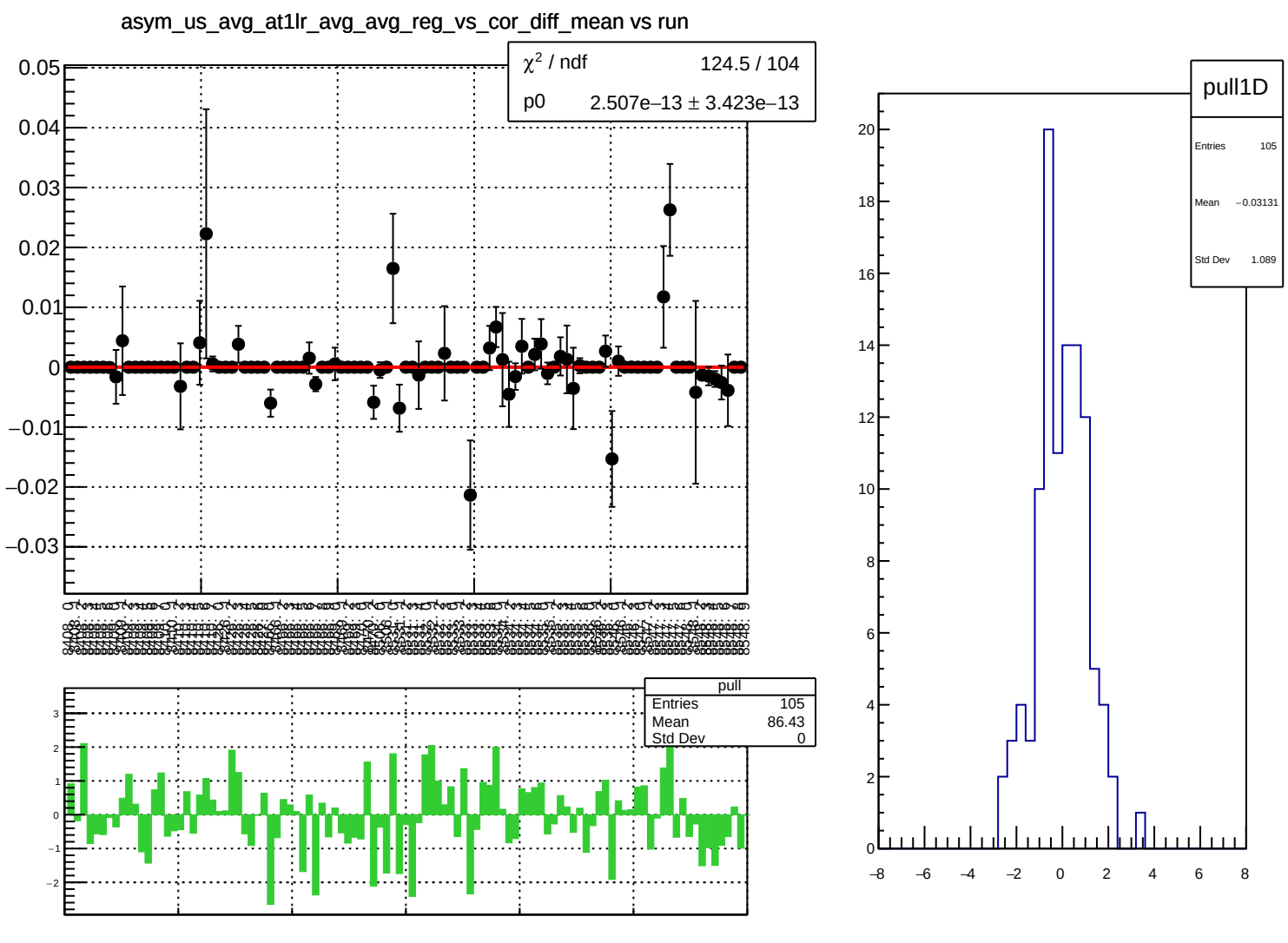

pull1D
Entries 105
Mean 0.00672
Std Dev 0.9617
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

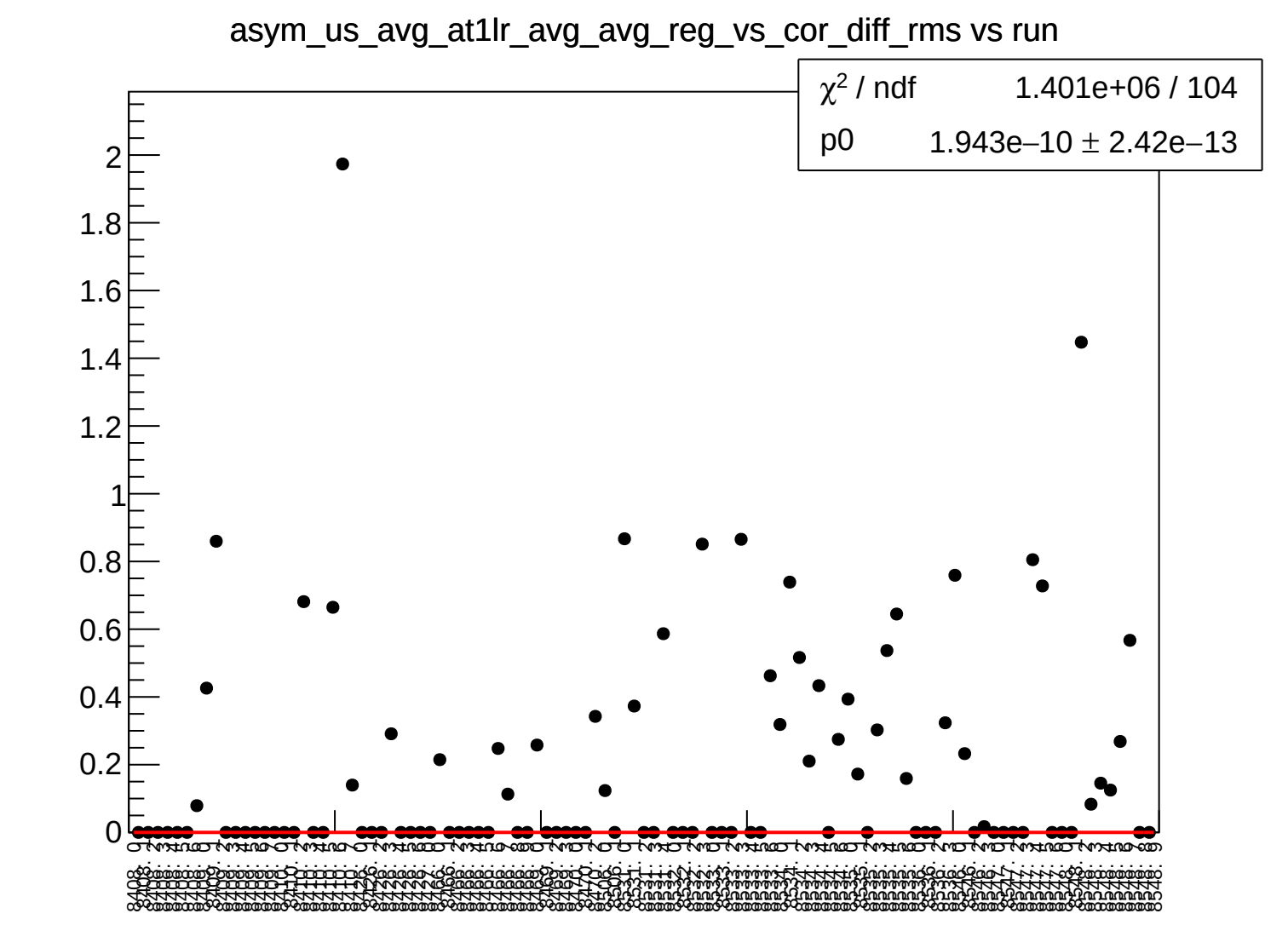

asym_us_avg_at1lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.274e+04 / 104
p0 2739 ± 1.93
3800
3600
3400
3200
3000
2800
2600
2400
2200

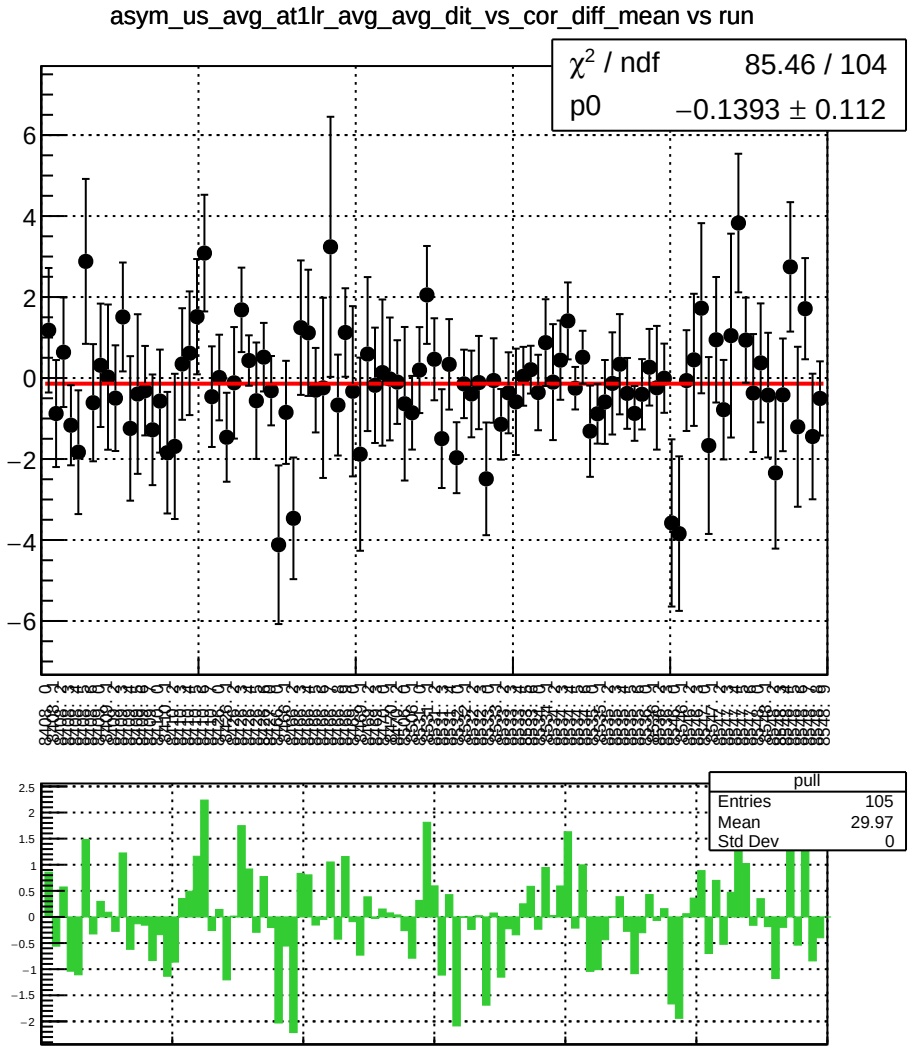

asym_us_avg_at1lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 104.5 / 104
p0 7777 ± 3548
150
100
50
0
−50
−100
pull
Entries 105
Mean 721.3
Std Dev 0
2
1
0
−1
−2

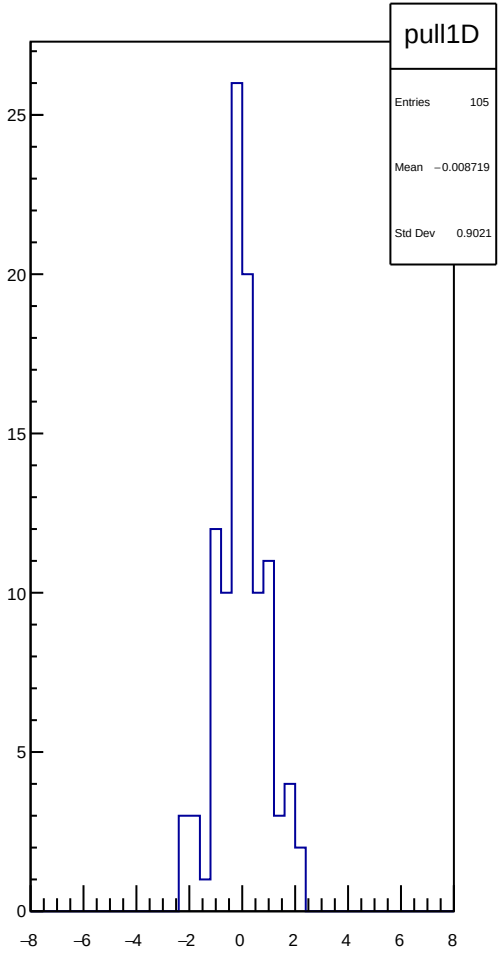

pull1D
Entries 105
Mean 0.001179
Std Dev 0.9977
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

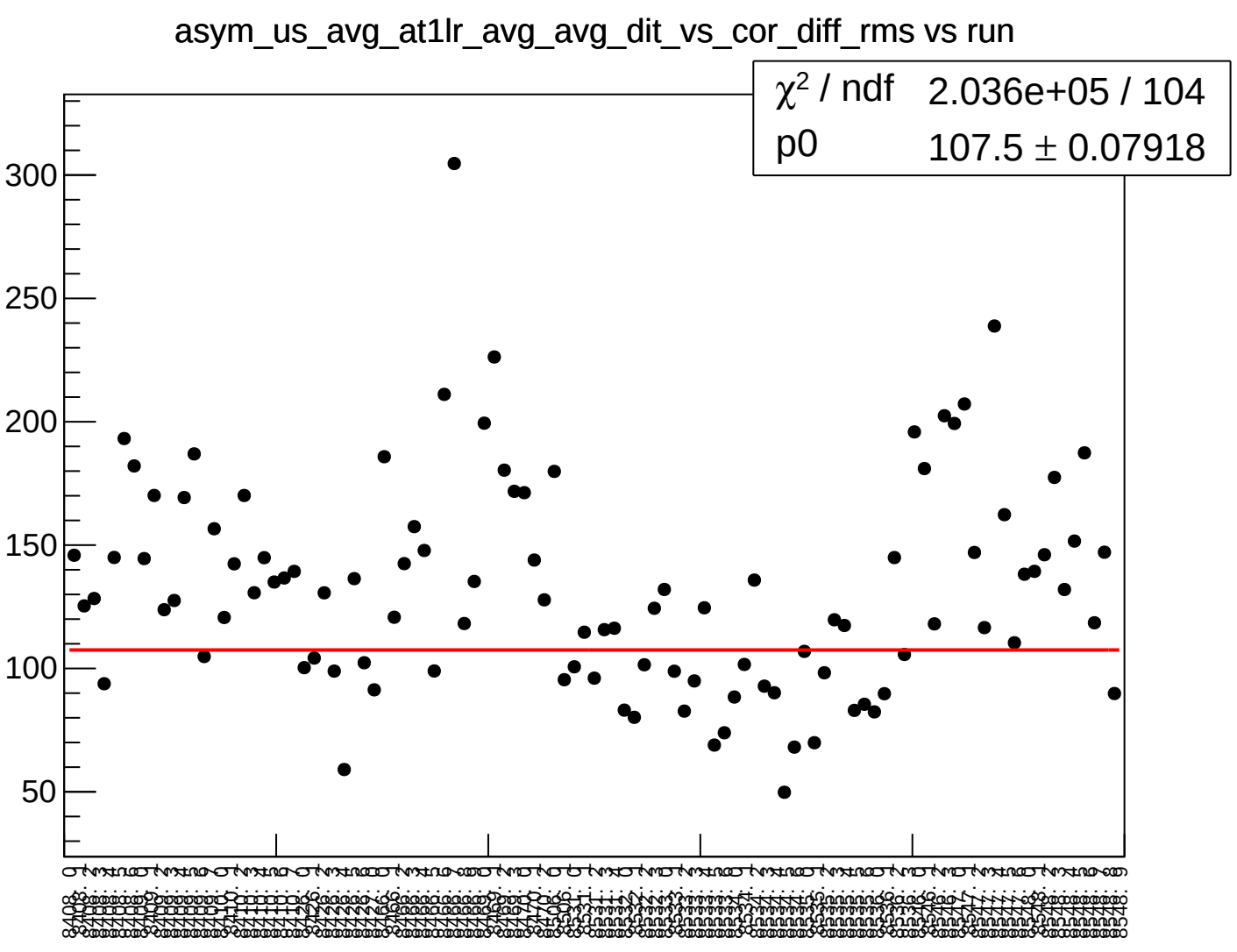

asym_us_avg_at1lr_avg_avg_rms vs run
χ² / ndf 1.799e+04 / 104
p0 3573 ± 2.509
4600
4400
4200
4000
3800
3600
3400
3200
3000

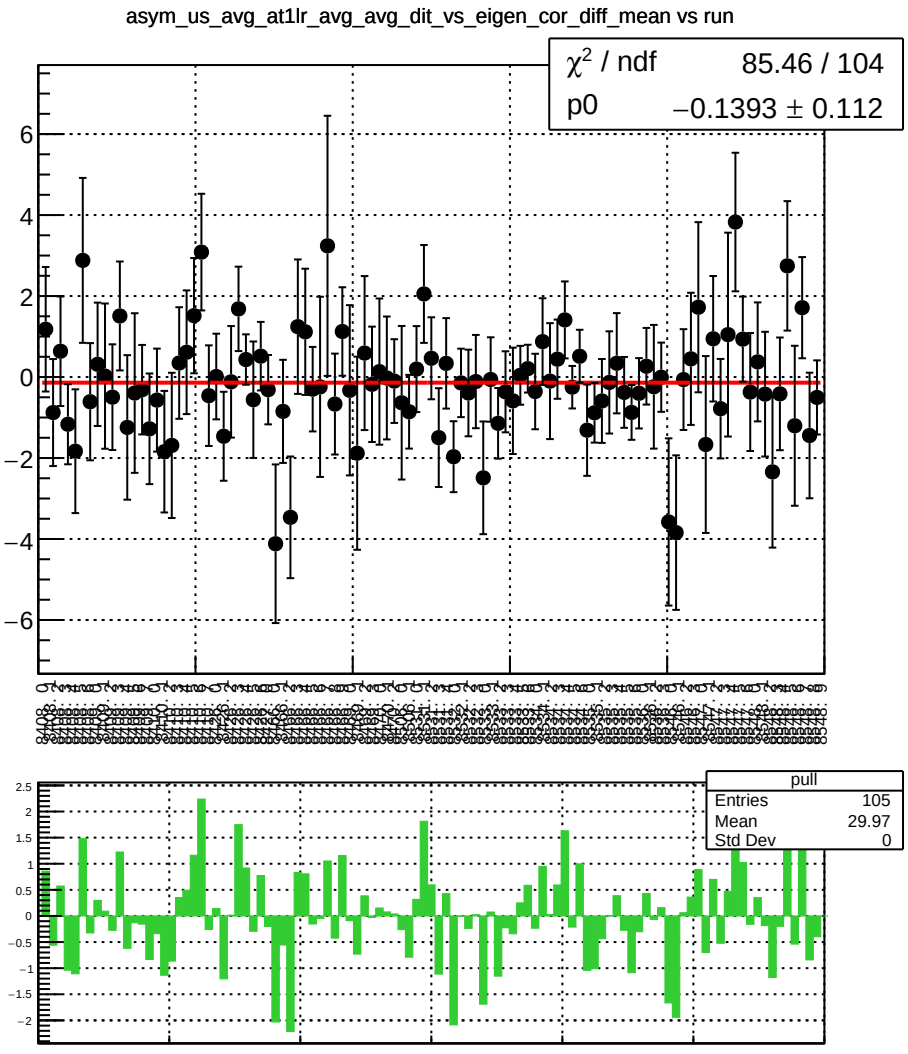

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 124.5 / 104
p0 2.507e−13 ± 3.423e−13
0.05
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 105
Mean 86.43
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.03131
Std Dev 1.089
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

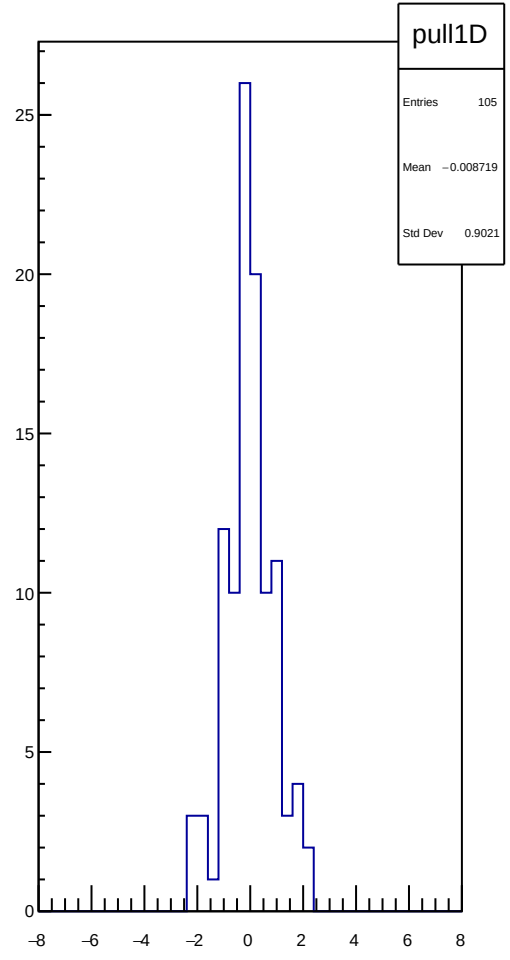

asym_us_avg_at1lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.401e+06 / 104
p0 1.943e−10 ± 2.42e−13
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

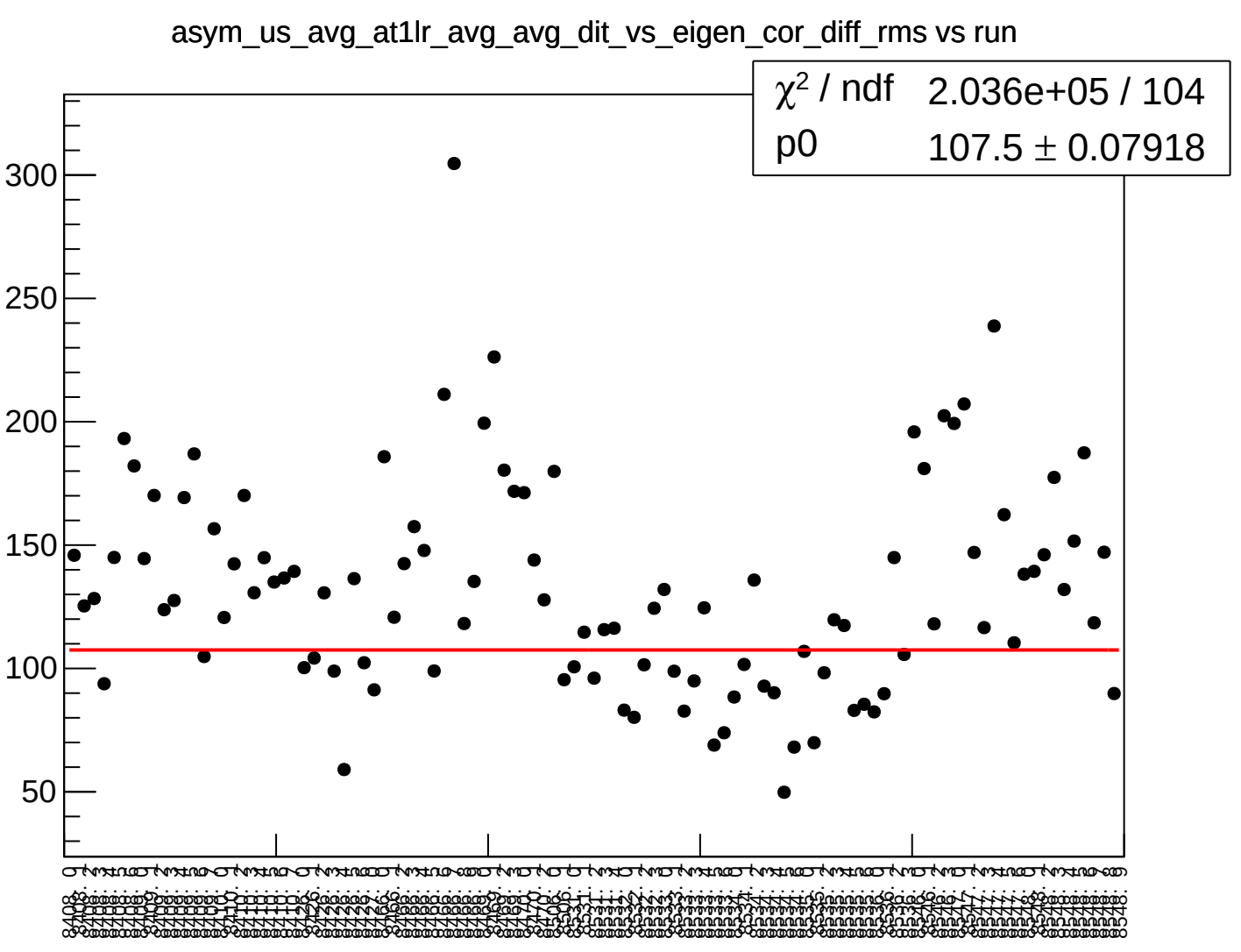

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 85.46 / 104
p0 −0.1393 ± 0.112
pull
Entries 105
Mean 29.97
Std Dev 0

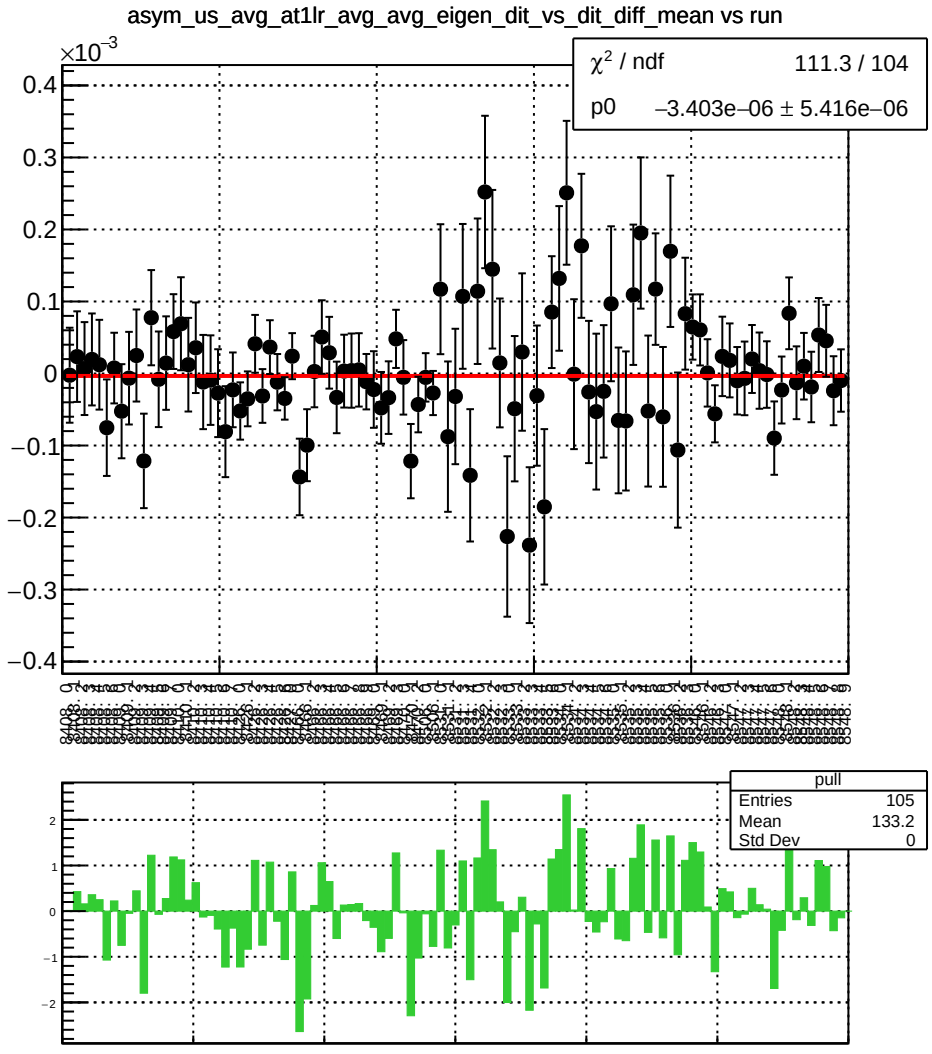

pull1D
Entries 105
Mean −0.008719
Std Dev 0.9021

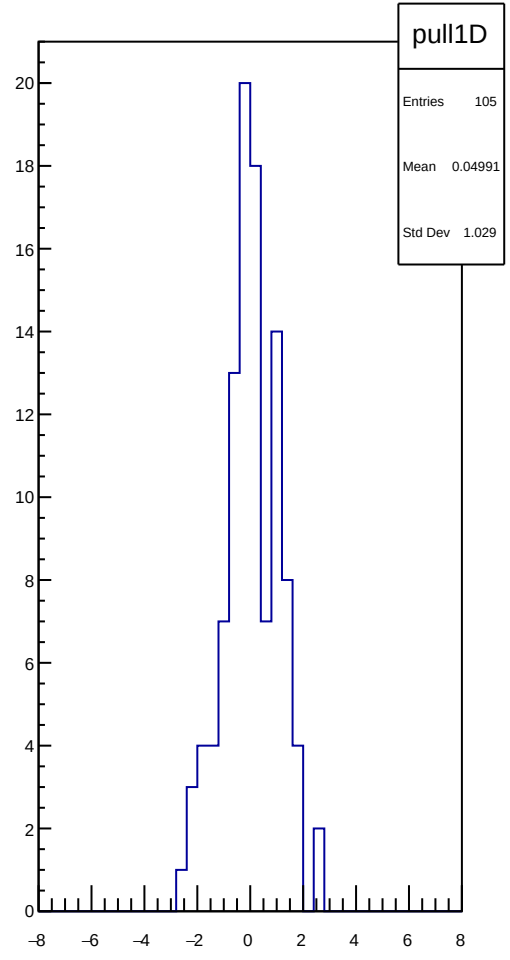

asym_us_avg_at1lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.036e+05 / 104
p0 107.5 ± 0.07918
300
250
200
150
100
50

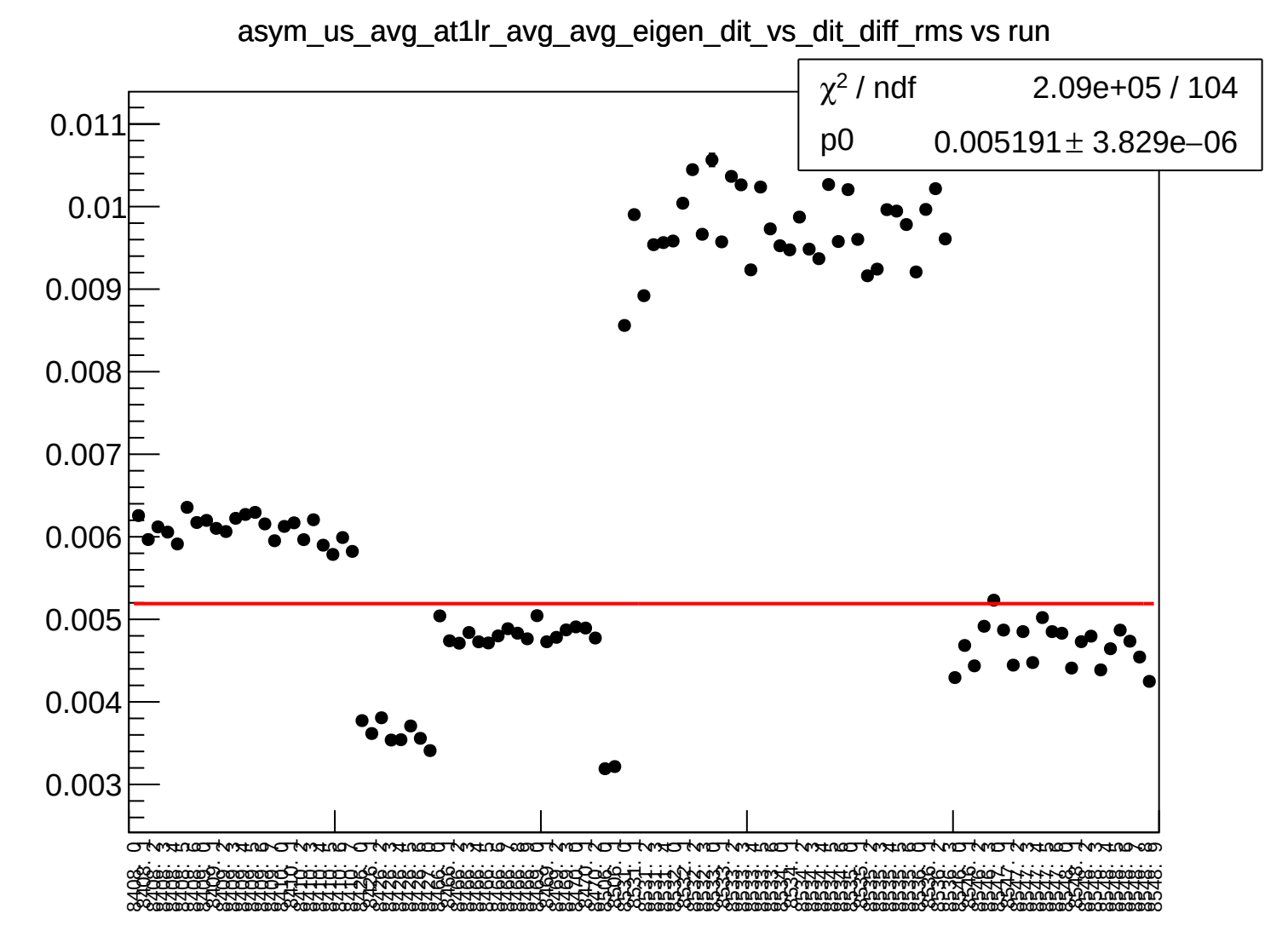

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.46 / 104
p0 −0.1393 ± 0.112
pull
Entries 105
Mean 29.97
Std Dev 0

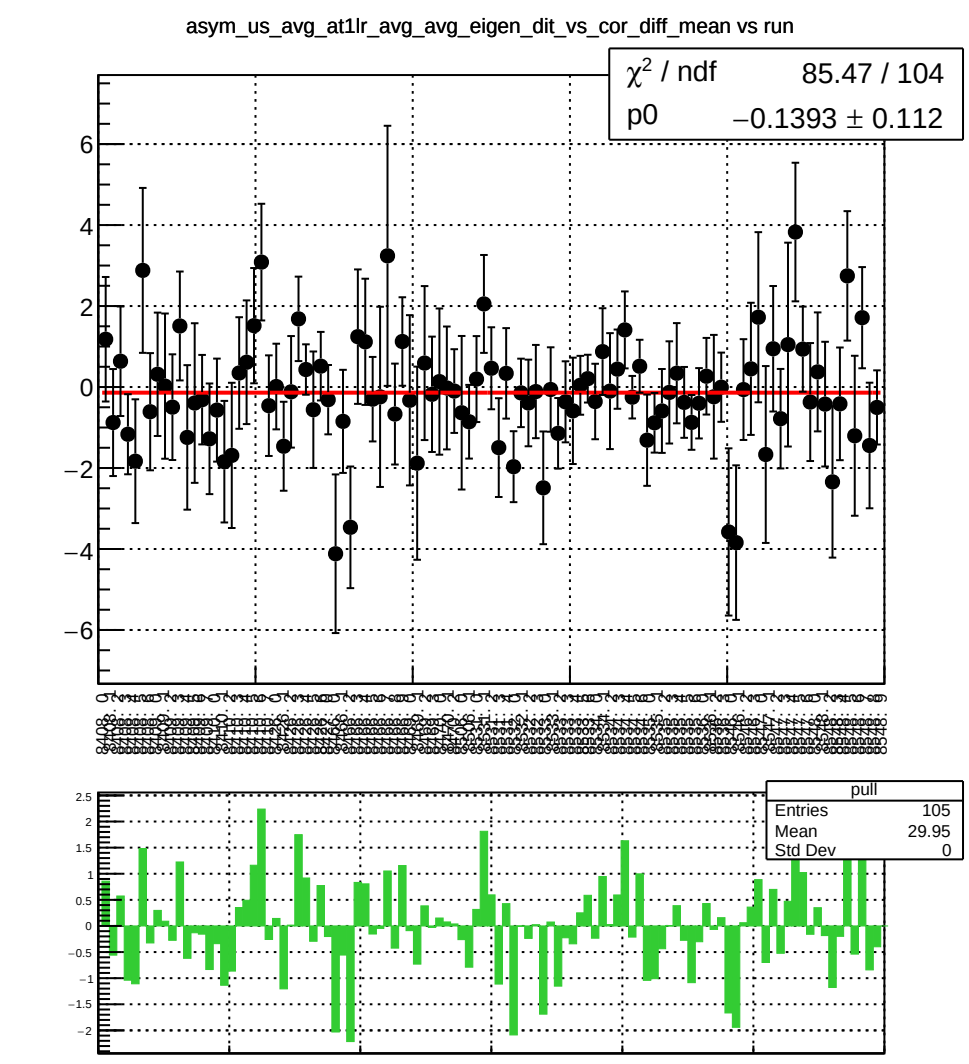

pull1D
Entries 105
Mean −0.008719
Std Dev 0.9021

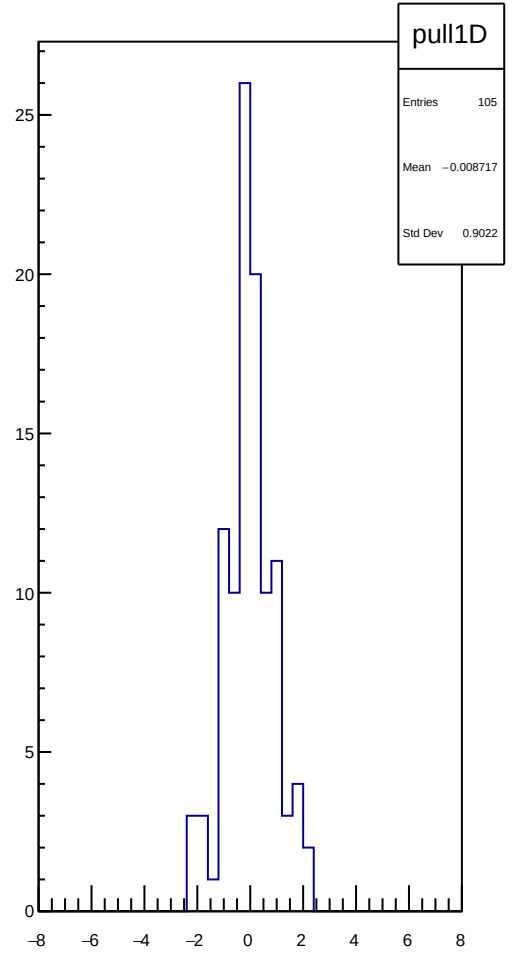

asym_us_avg_at1lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.036e+05 / 104
p0 107.5 ± 0.07918
300
250
200
150
100
50

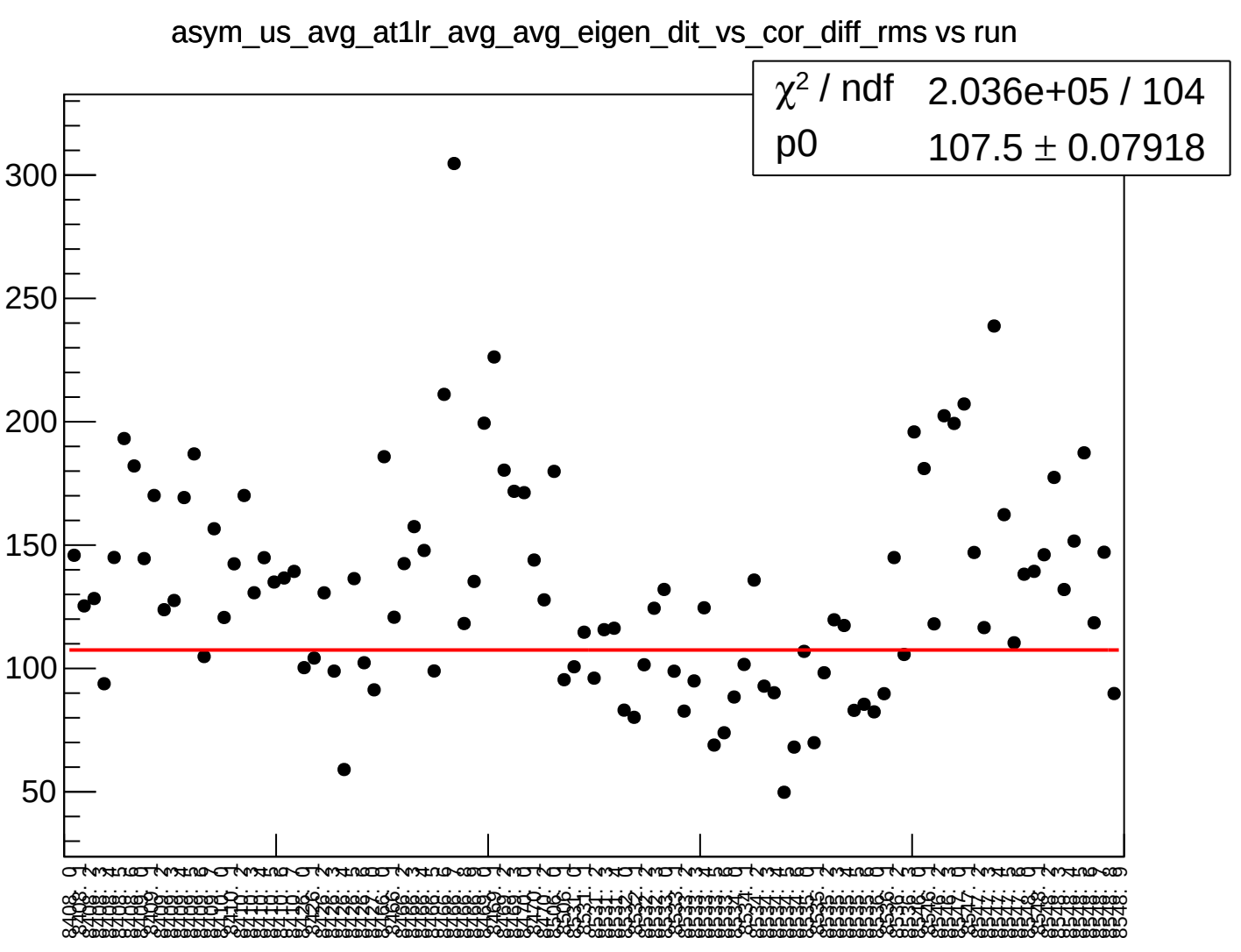

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 111.3 / 104
p0 −3.403e−06 ± 5.416e−06
pull
Entries 105
Mean 133.2
Std Dev 0

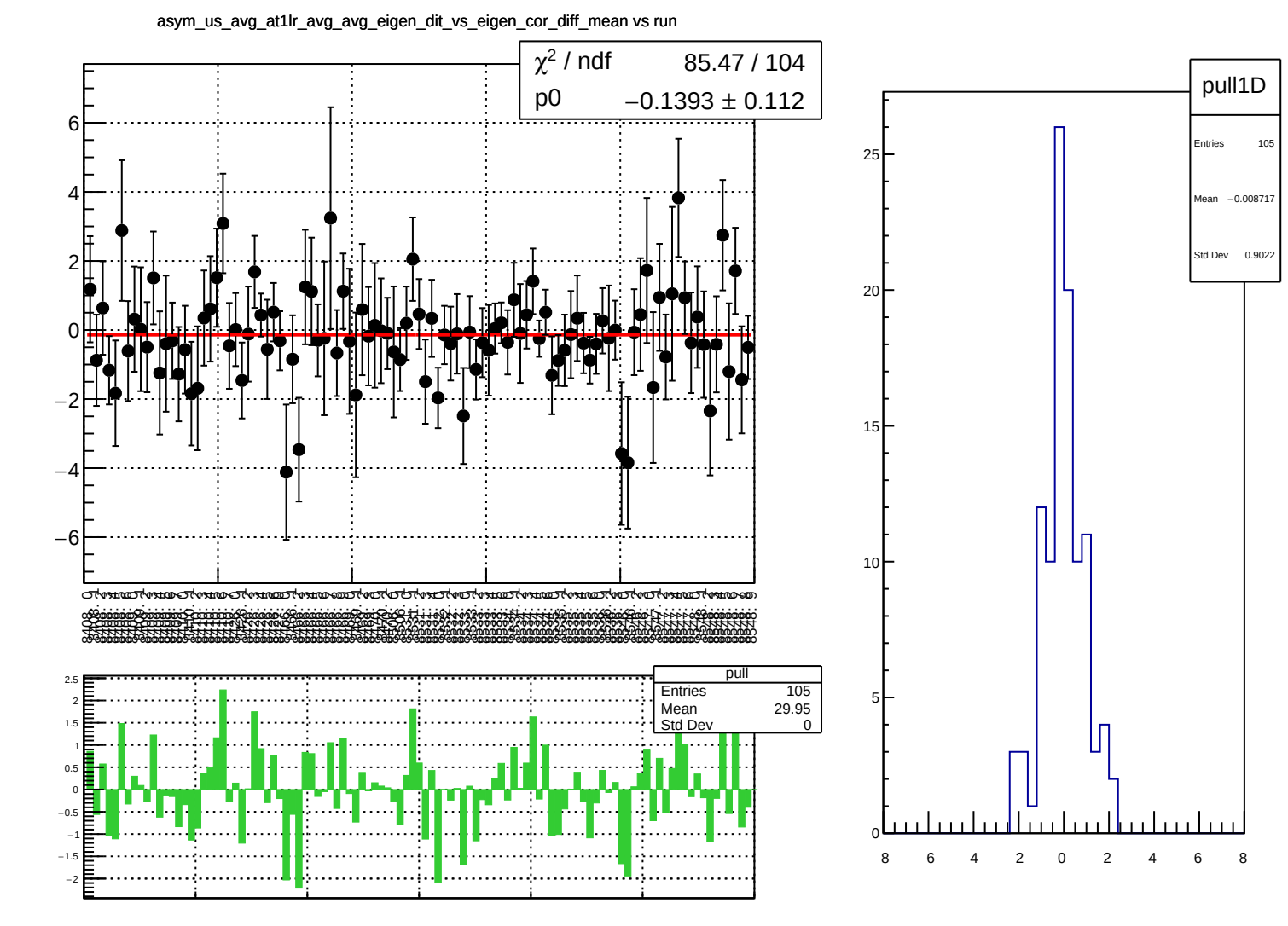

pull1D
Entries 105
Mean 0.04991
Std Dev 1.029

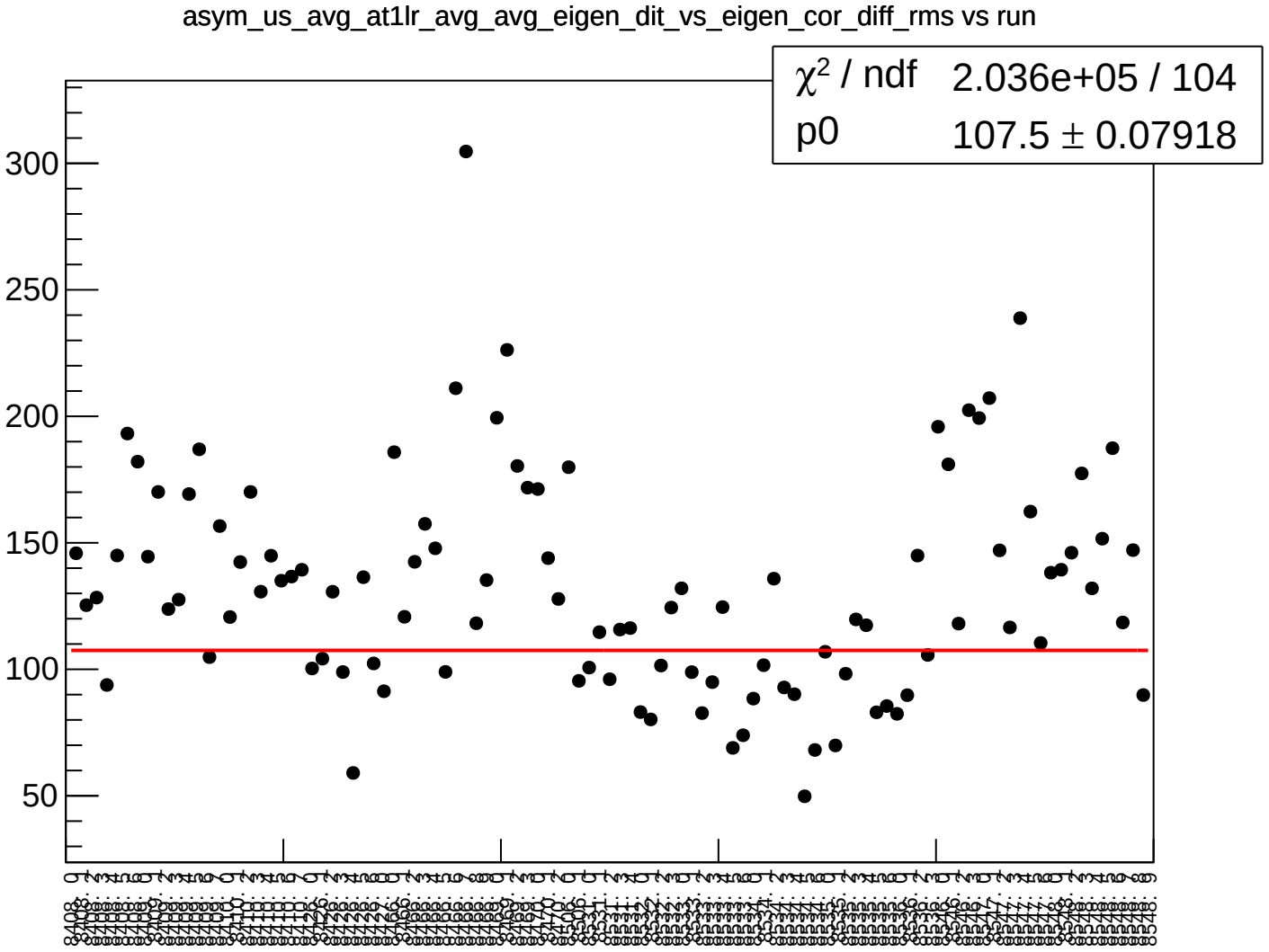

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.09e+05 / 104
p0 0.005191 ± 3.829e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003

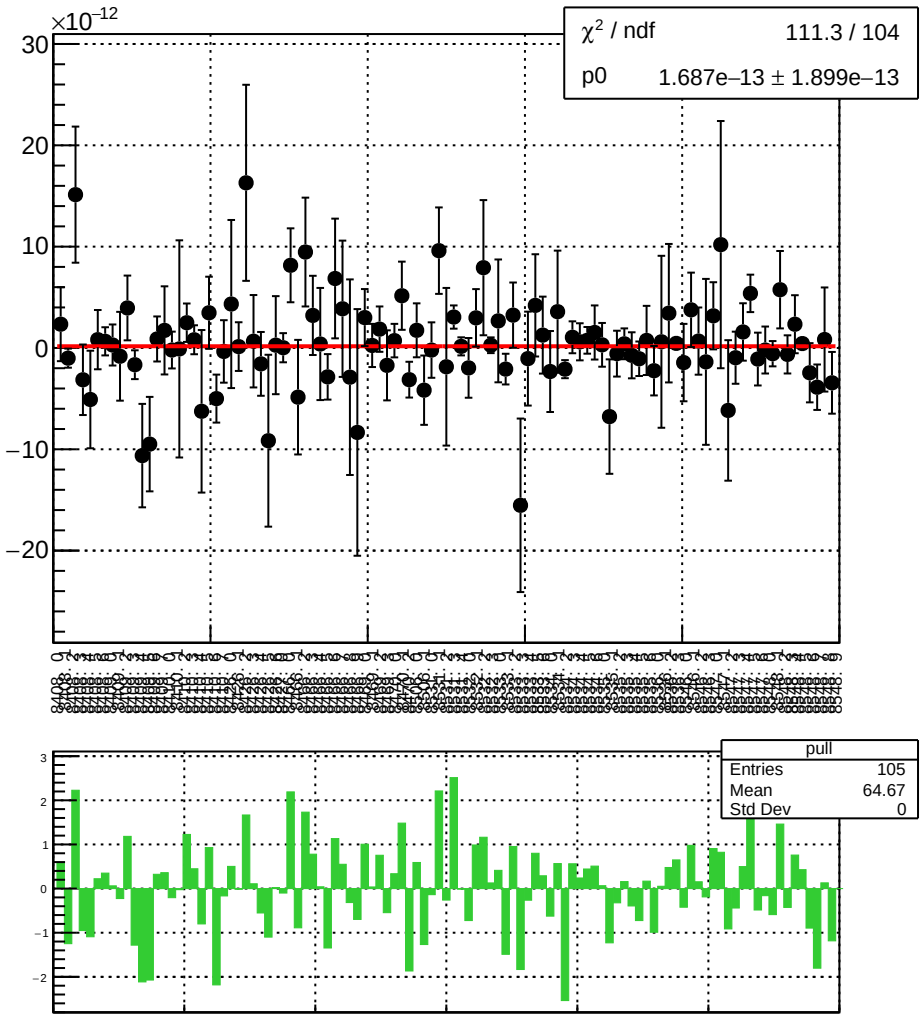

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 85.47 / 104
p0 −0.1393 ± 0.112
pull
Entries 105
Mean 29.95
Std Dev 0

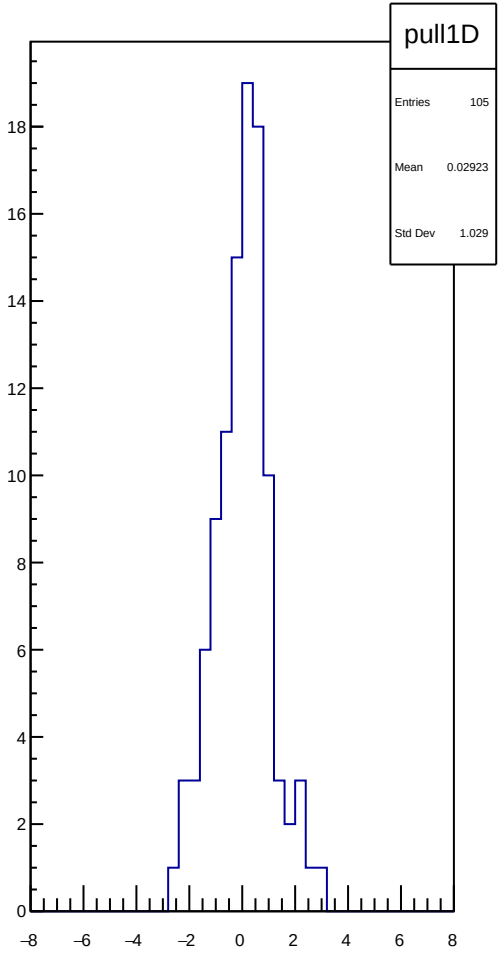

pull1D
Entries 105
Mean −0.008717
Std Dev 0.9022

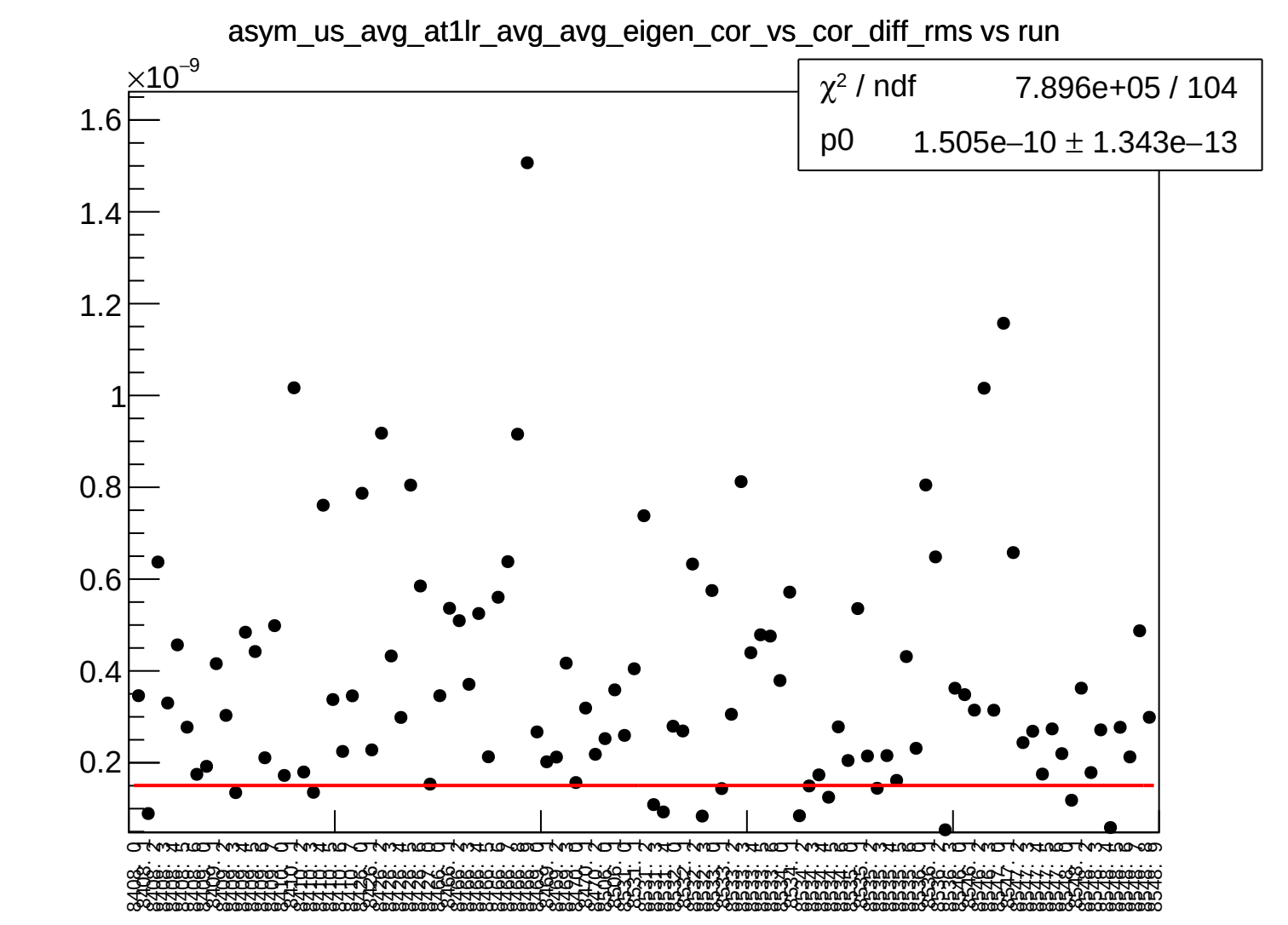

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.036e+05 / 104
p0 107.5 ± 0.07918
300
250
200
150
100
50

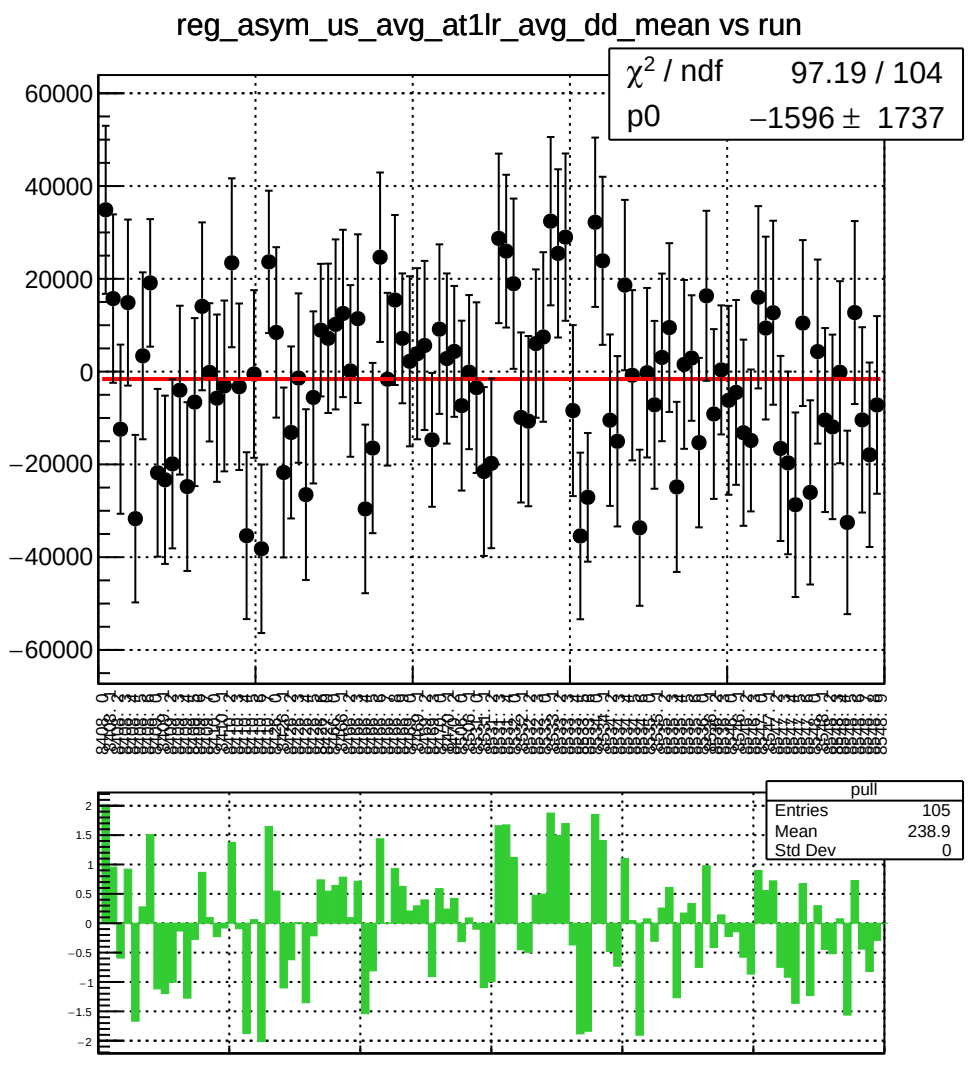

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 85.47 / 104
p0 −0.1393 ± 0.112
pull
Entries 105
Mean 29.95
Std Dev 0
pull1D
Entries 105
Mean −0.008717
Std Dev 0.9022

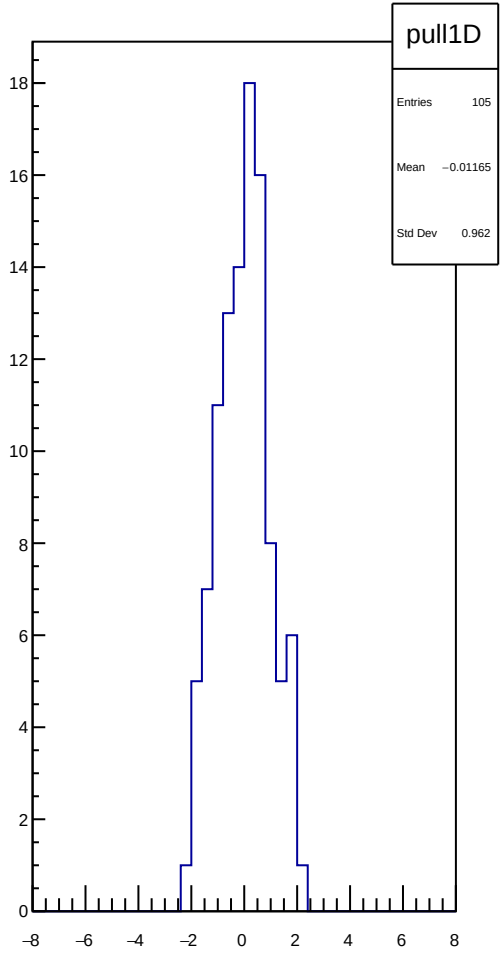

asym_us_avg_at1lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.036e+05 / 104
p0 107.5 ± 0.07918
300
250
200
150
100
50

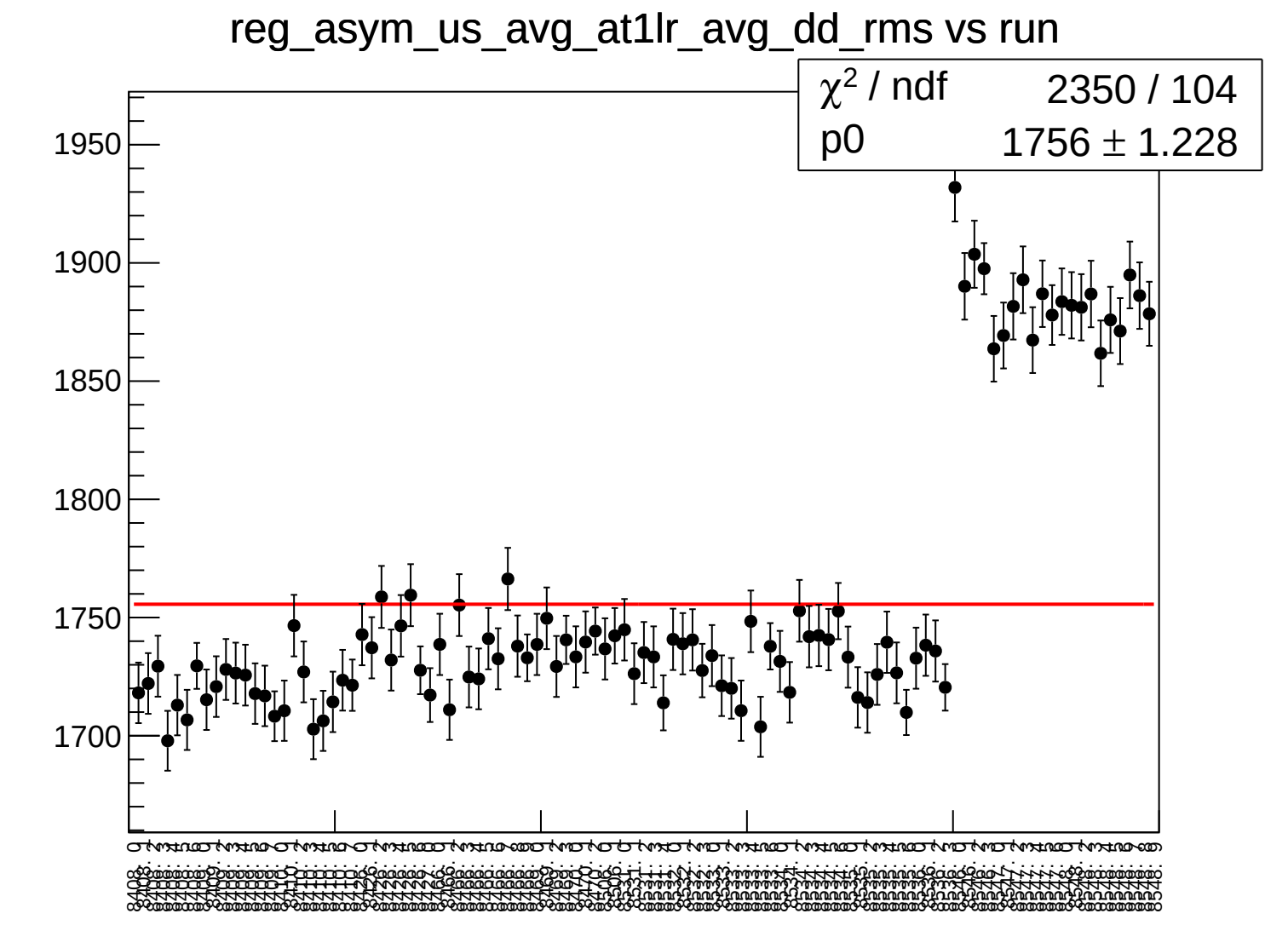

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 111.3 / 104
p0 1.687e−13 ± 1.899e−13
pull
Entries 105
Mean 64.67
Std Dev 0

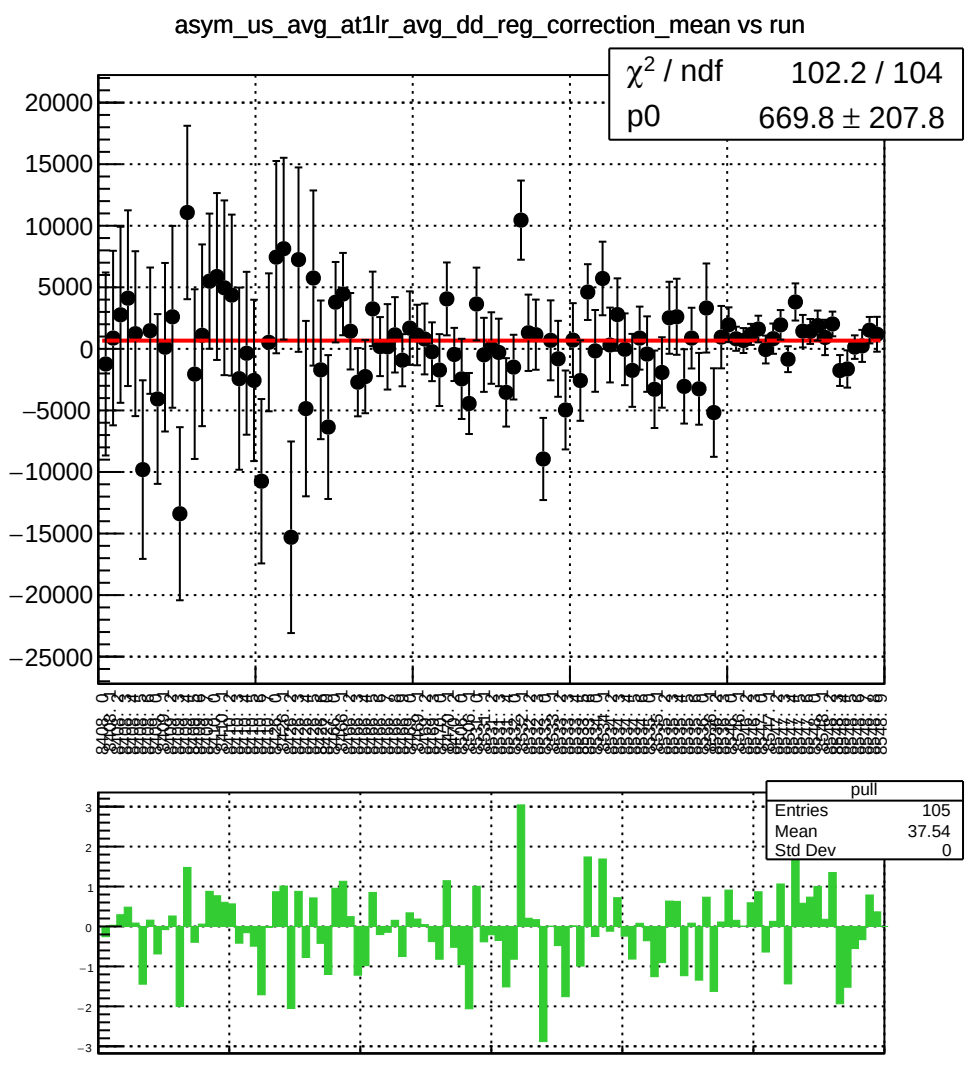

pull1D
Entries 105
Mean 0.02923
Std Dev 1.029

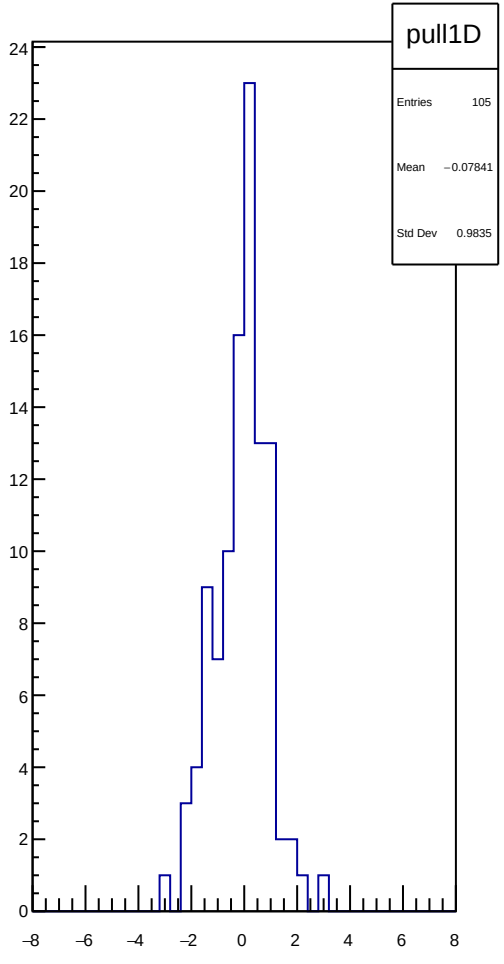

asym_us_avg_at1lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.896e+05 / 104
p0 1.505e−10 ± 1.343e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

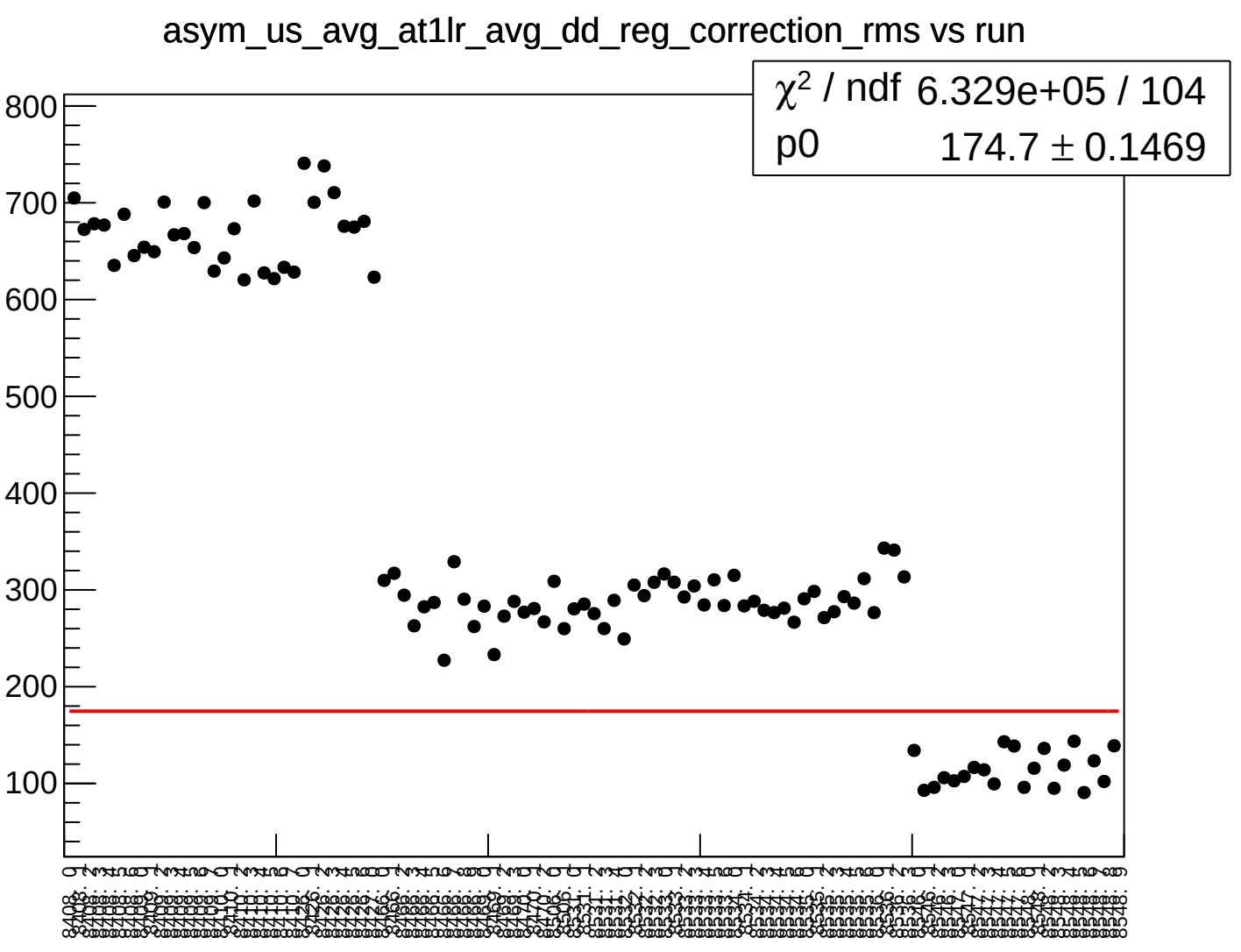

reg_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 97.19 / 104
p0 −1596 ± 1737
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean 238.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

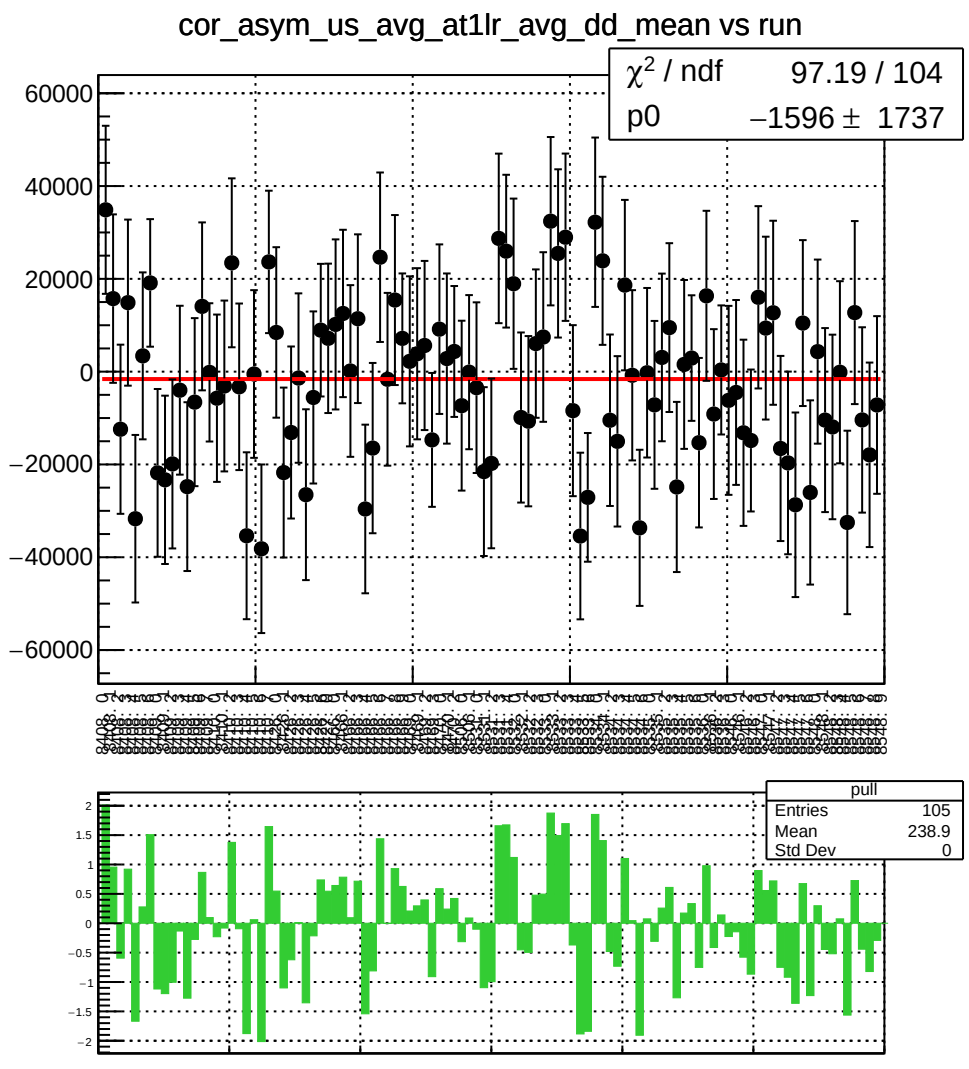

pull1D
Entries 105
Mean −0.01165
Std Dev 0.962
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

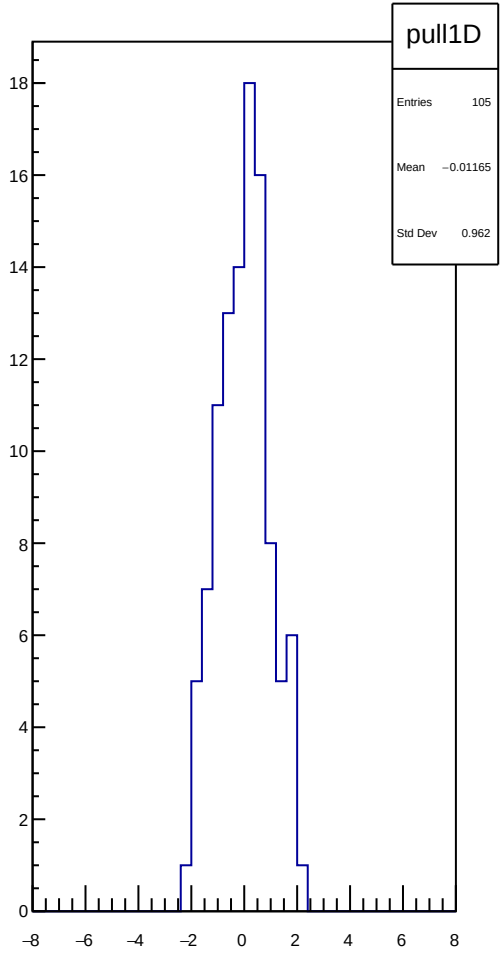

reg_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 2350 / 104
p0 1756 ± 1.228
1950
1900
1850
1800
1750
1700

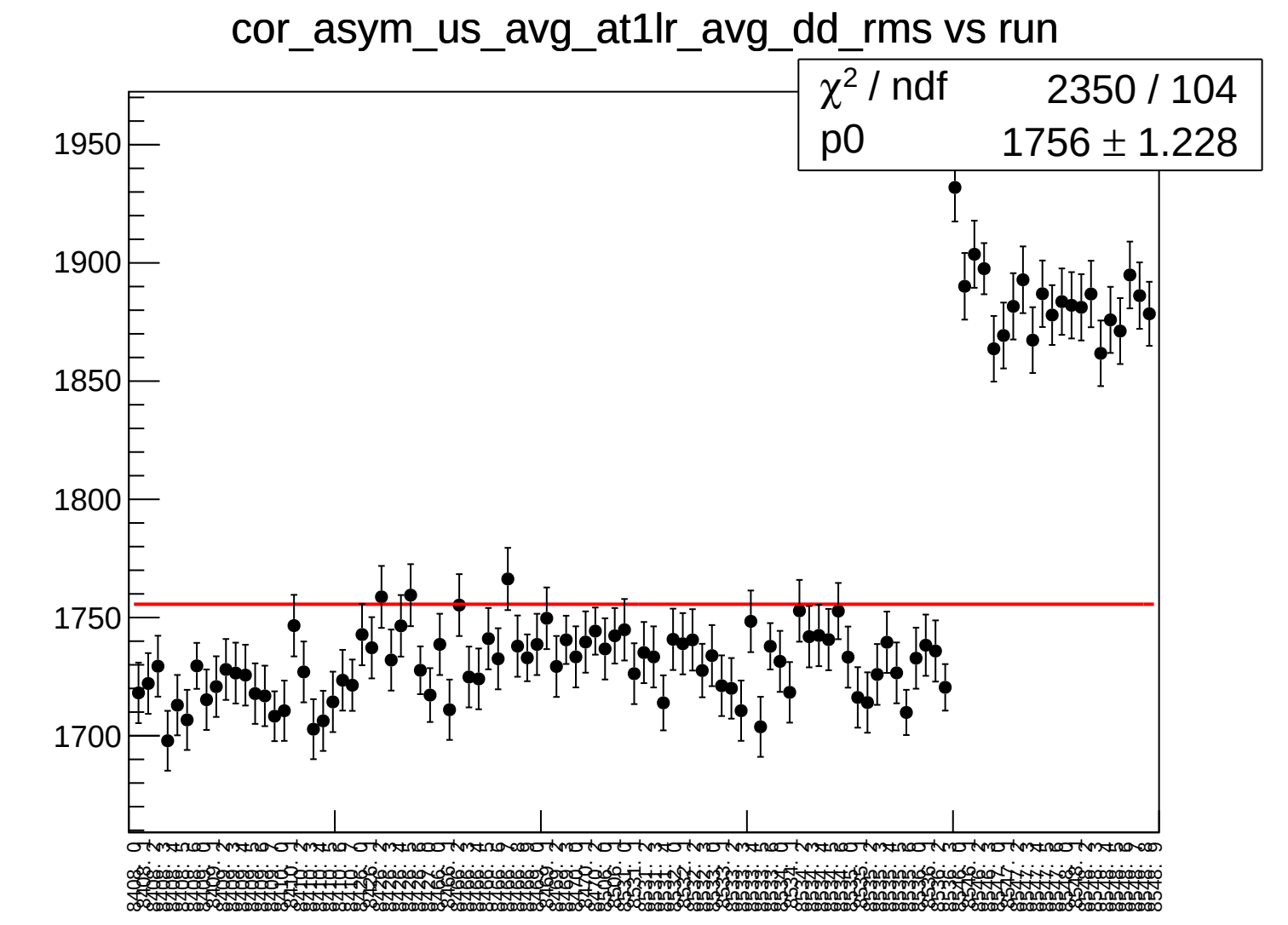

asym_us_avg_at1lr_avg_dd_reg_correction_mean vs run
χ² / ndf 102.2 / 104
p0 669.8 ± 207.8
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 105
Mean 37.54
Std Dev 0
3
2
1
0
−1
−2
−3

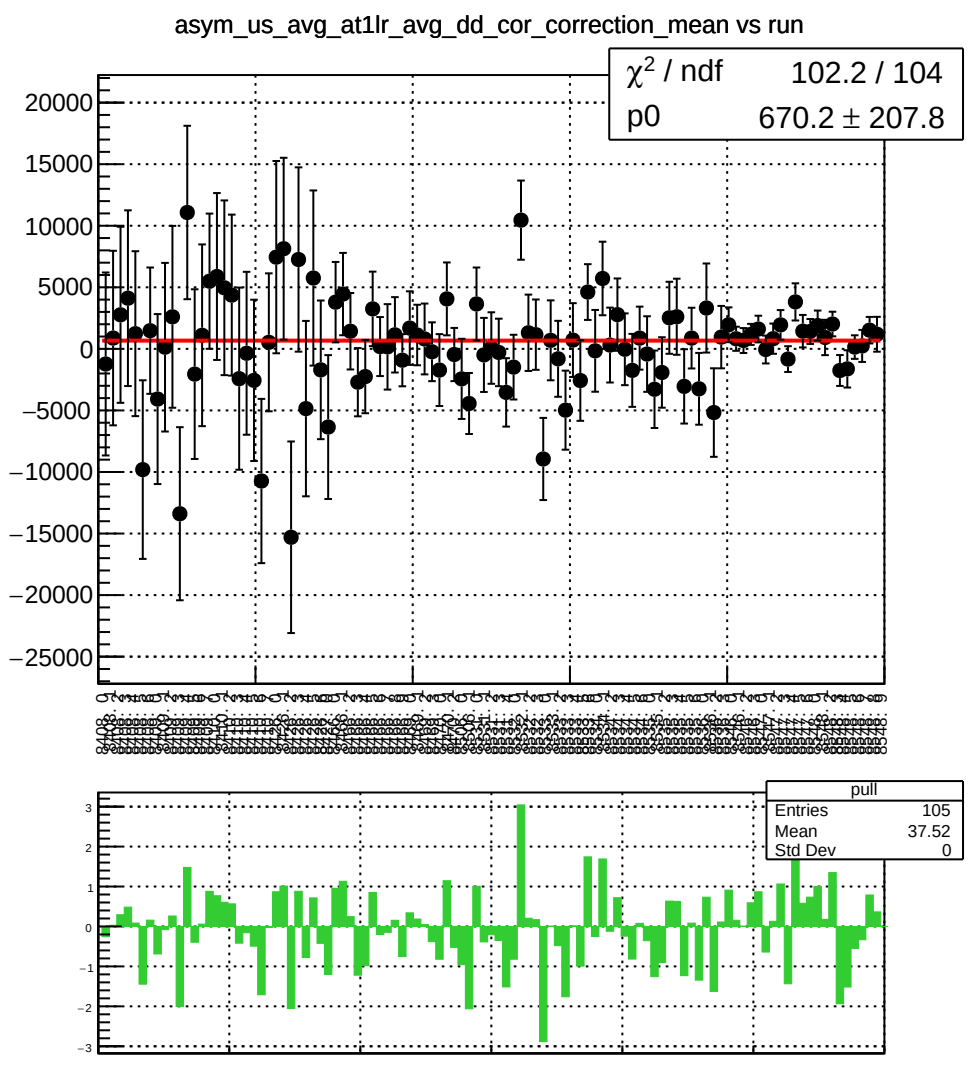

pull1D
Entries 105
Mean −0.07841
Std Dev 0.9835
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

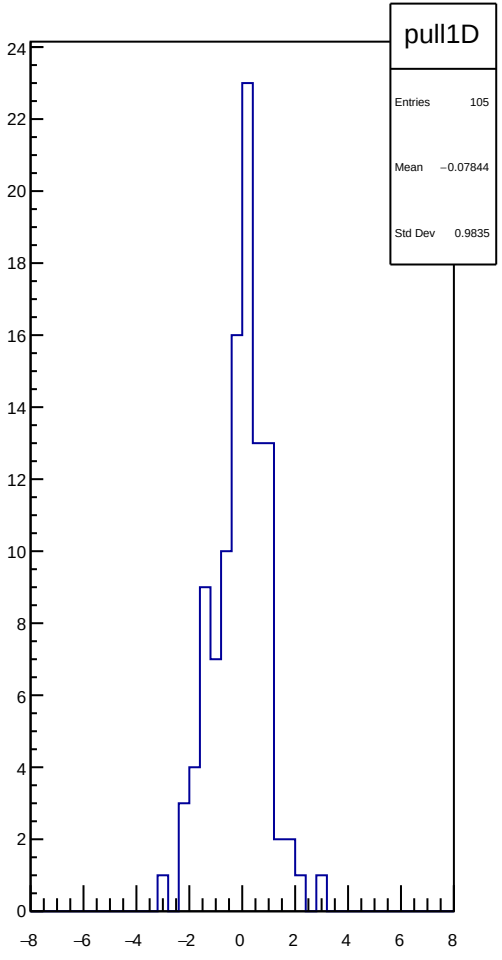

asym_us_avg_at1lr_avg_dd_reg_correction_rms vs run
χ^2 / ndf 6.329e+05 / 104
p0 174.7 ± 0.1469
800
700
600
500
400
300
200
100

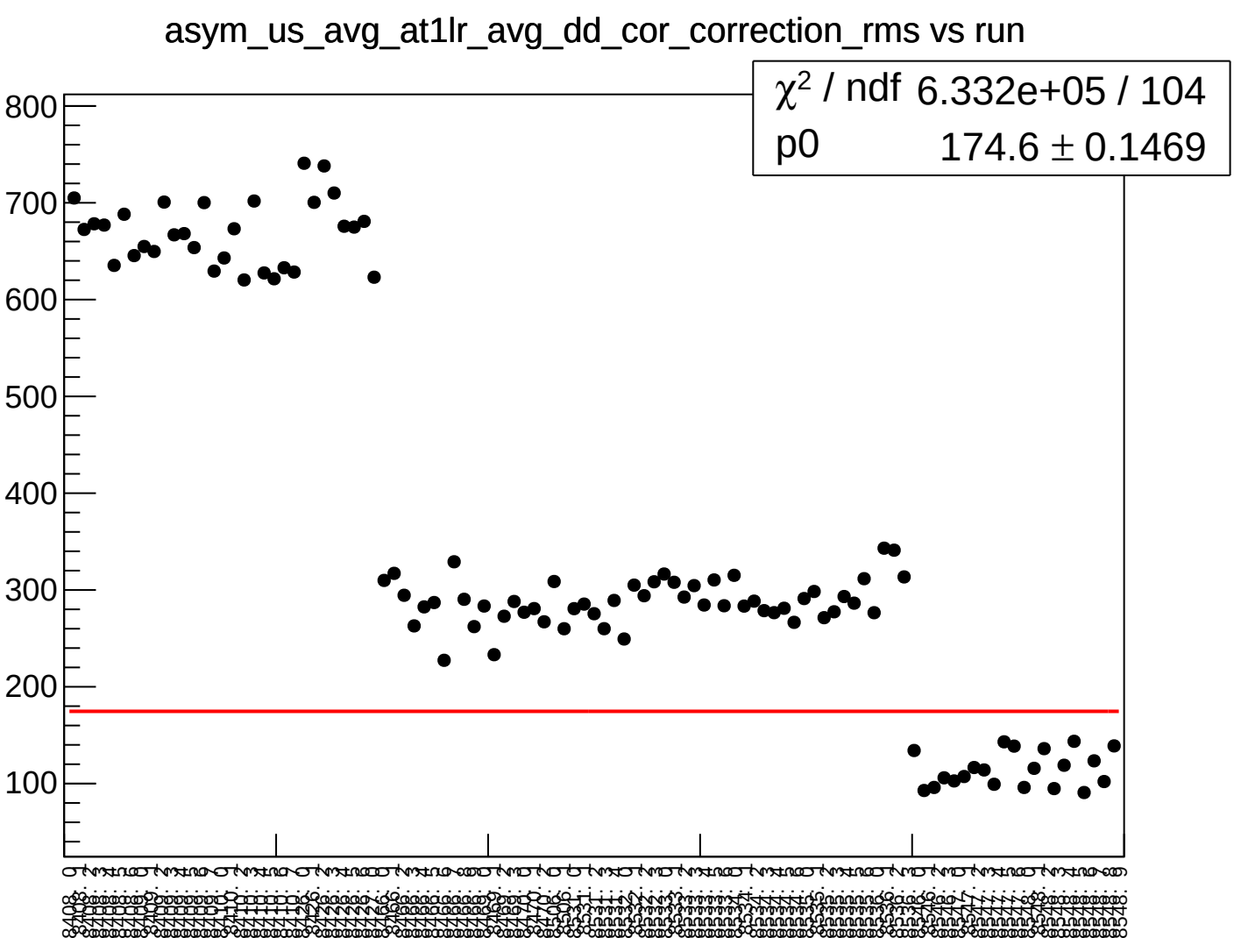

cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 97.19 / 104
p0 −1596 ± 1737
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean 238.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

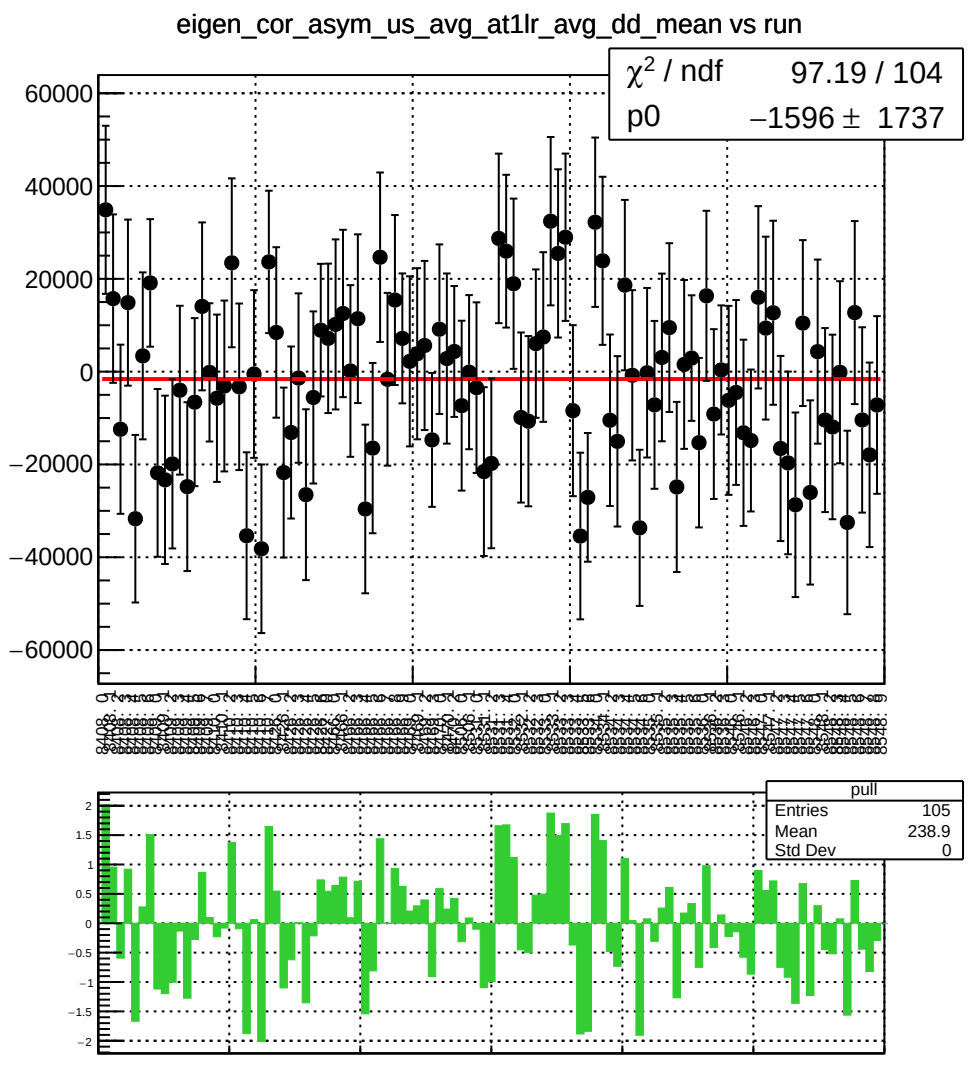

pull1D
Entries 105
Mean −0.01165
Std Dev 0.962
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

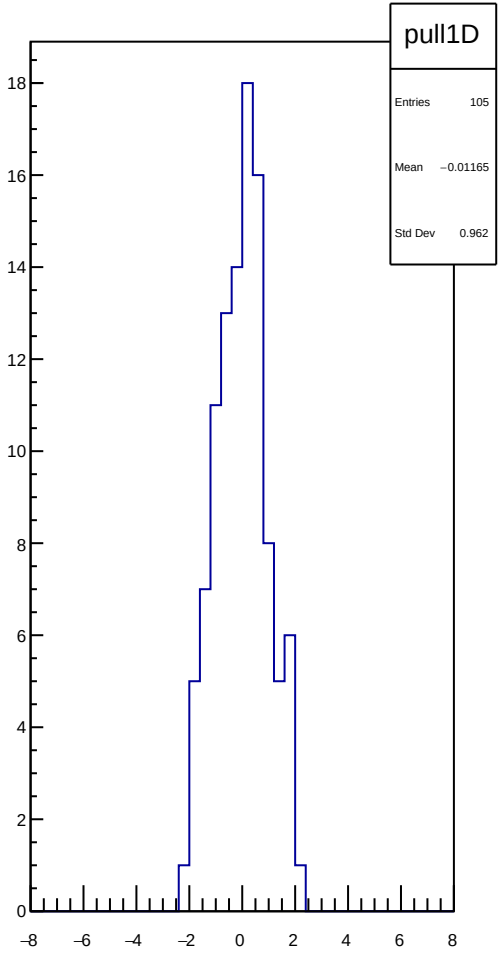

cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 2350 / 104
p0 1756 ± 1.228
1950
1900
1850
1800
1750
1700

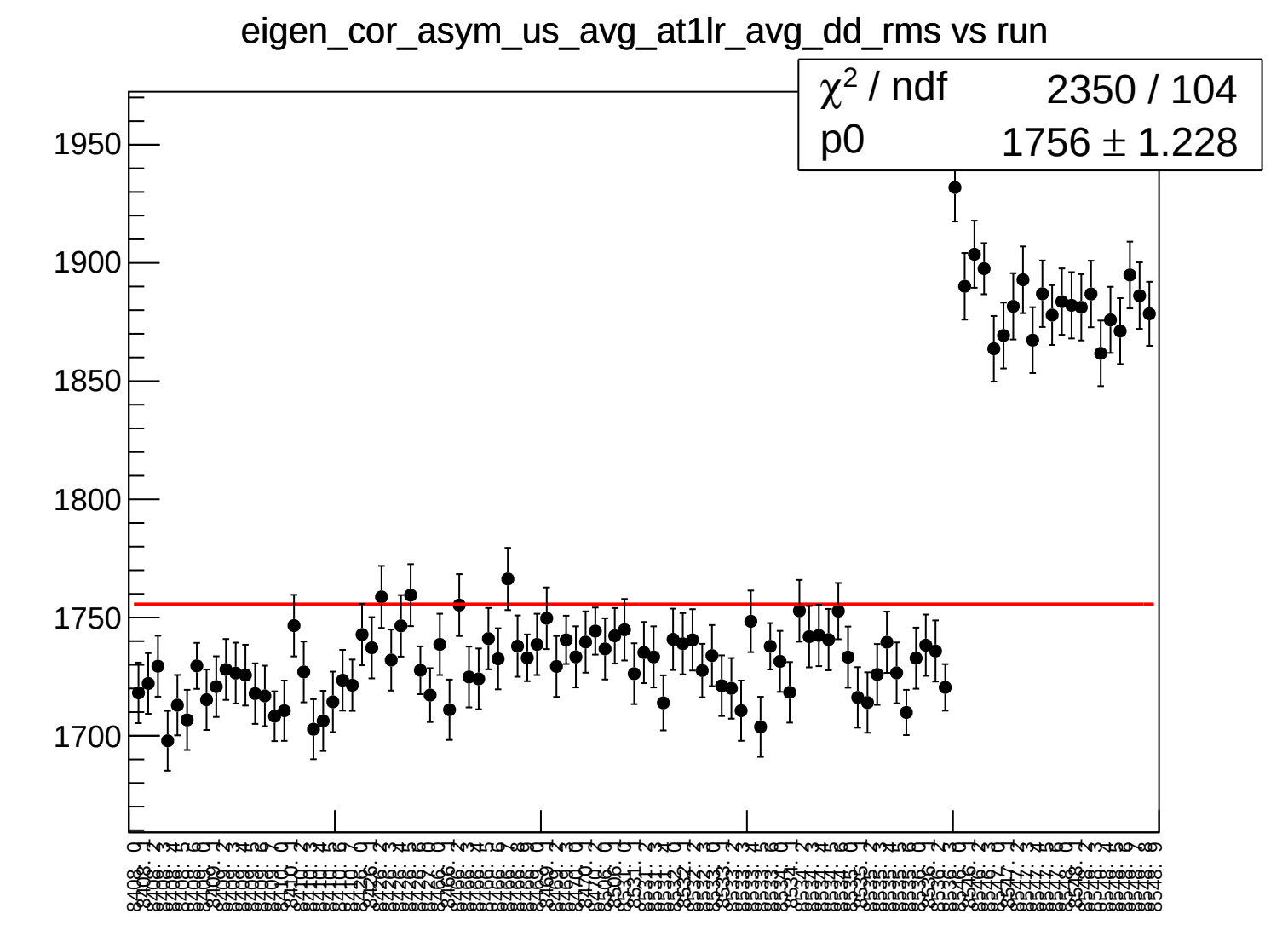

asym_us_avg_at1lr_avg_dd_cor_correction_mean vs run
χ² / ndf 102.2 / 104
p0 670.2 ± 207.8
pull
Entries 105
Mean 37.52
Std Dev 0

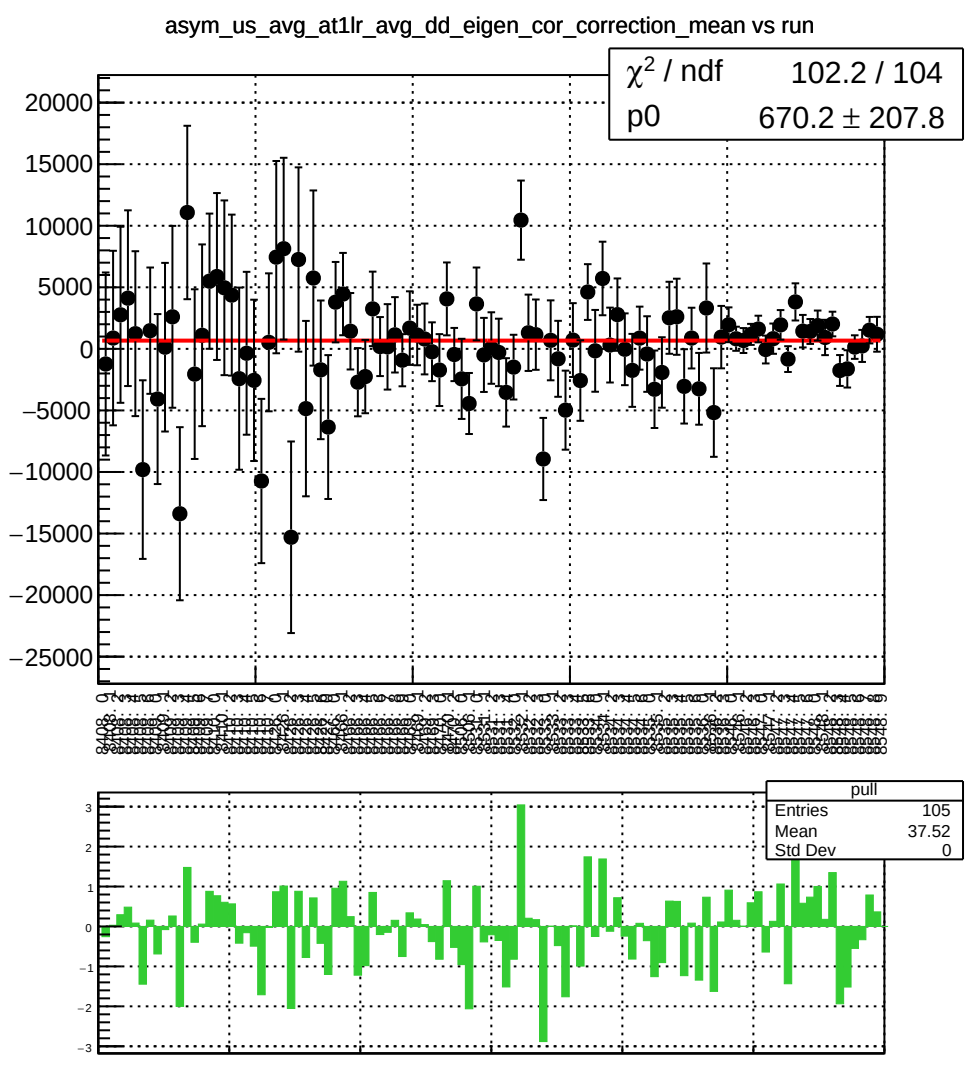

pull1D
Entries 105
Mean −0.07844
Std Dev 0.9835

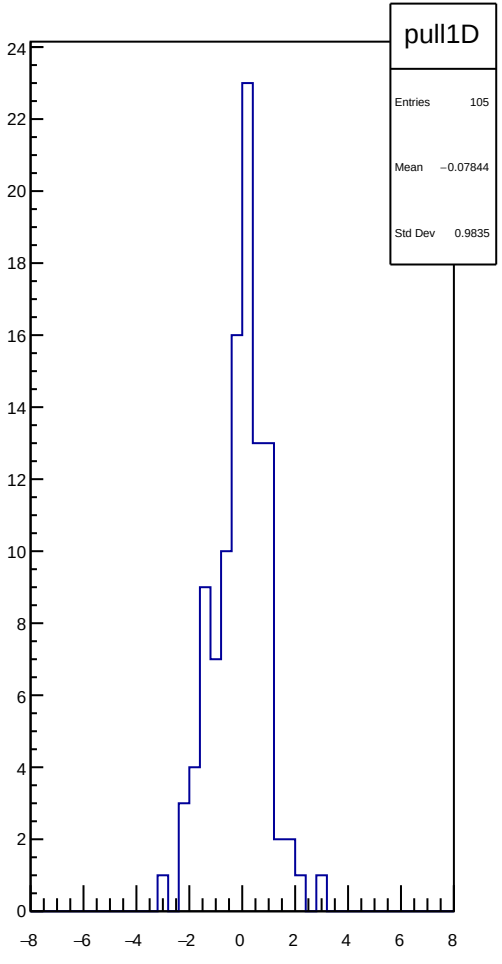

asym_us_avg_at1lr_avg_dd_cor_correction_rms vs run
χ^2 / ndf 6.332e+05 / 104
p0 174.6 ± 0.1469
800
700
600
500
400
300
200
100

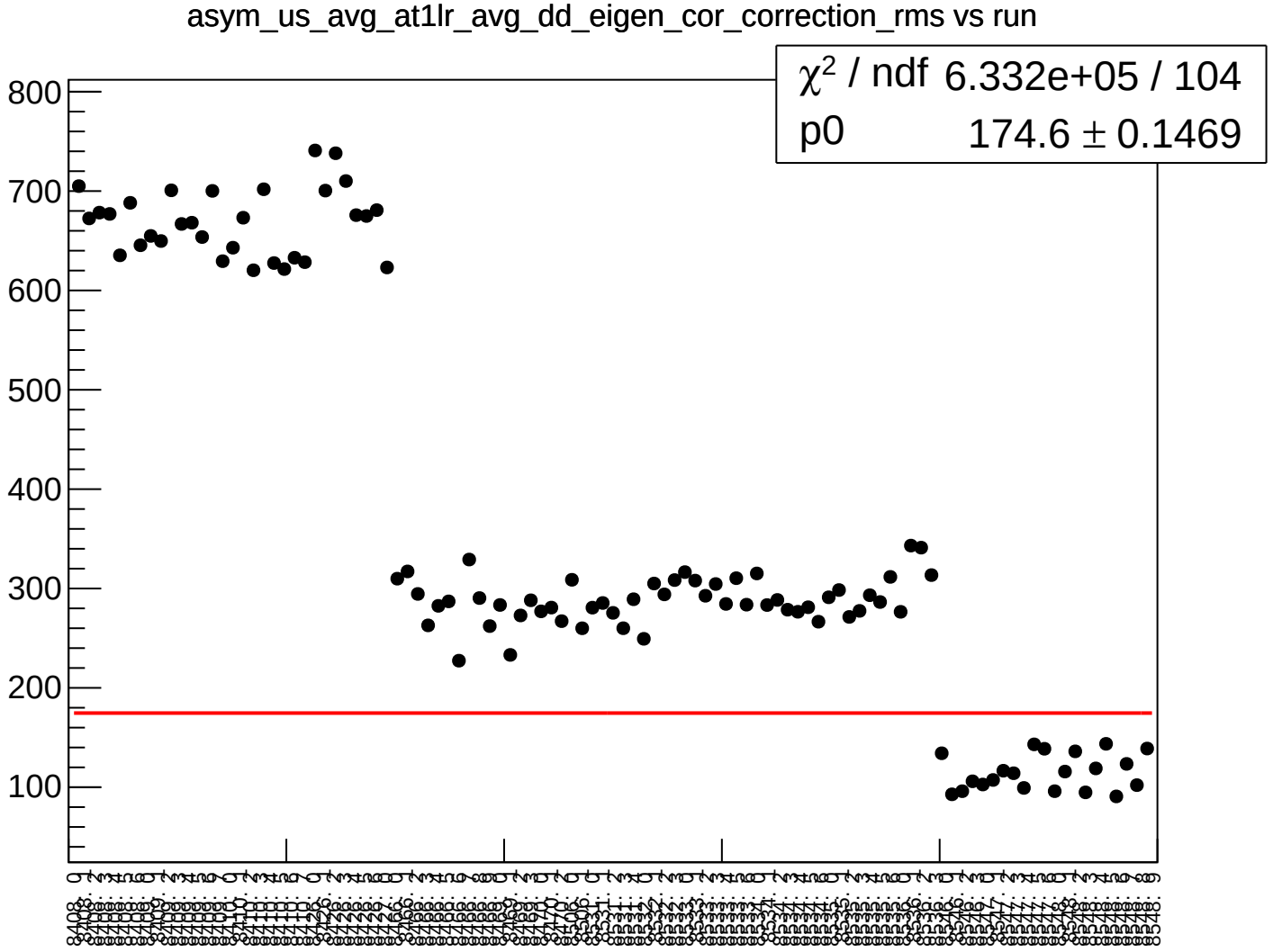

eigen_cor_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 97.19 / 104
p0 −1596 ± 1737
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean 238.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

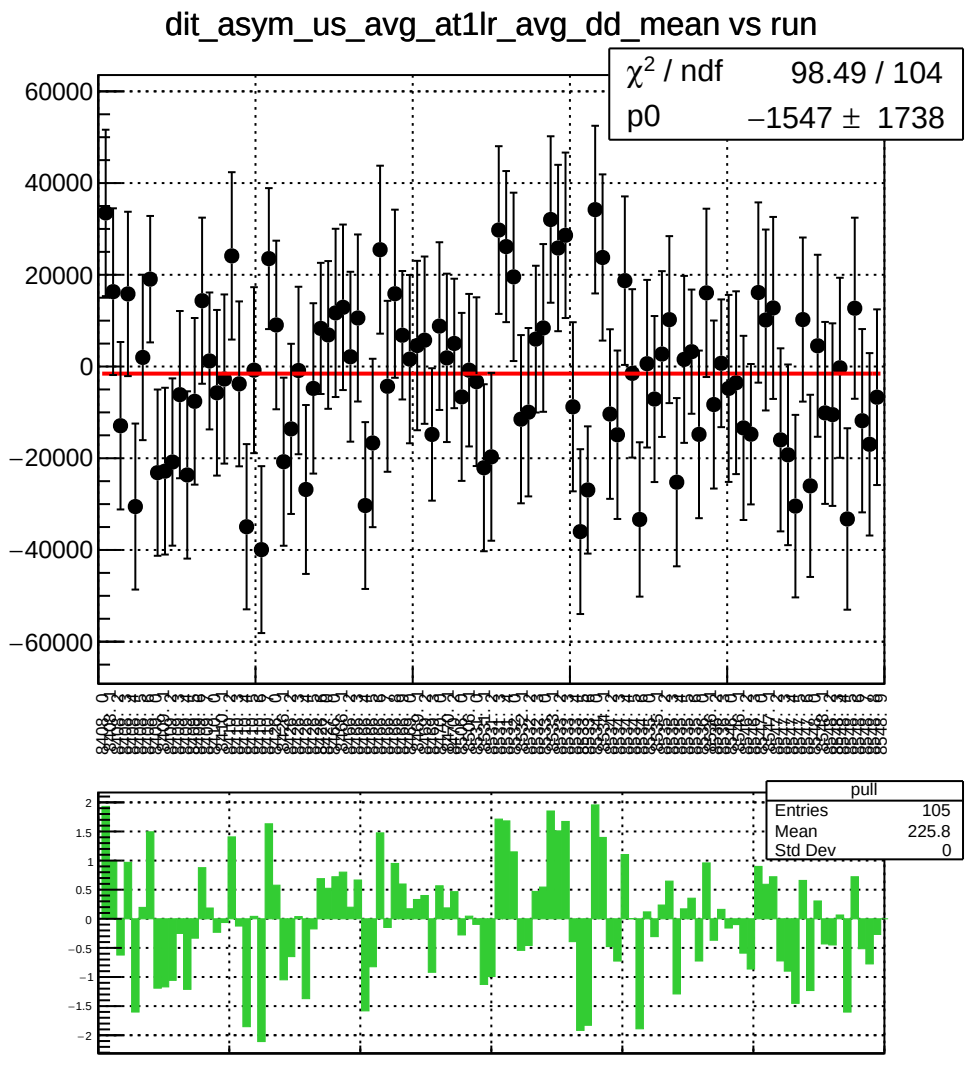

pull1D
Entries 105
Mean −0.01165
Std Dev 0.962
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

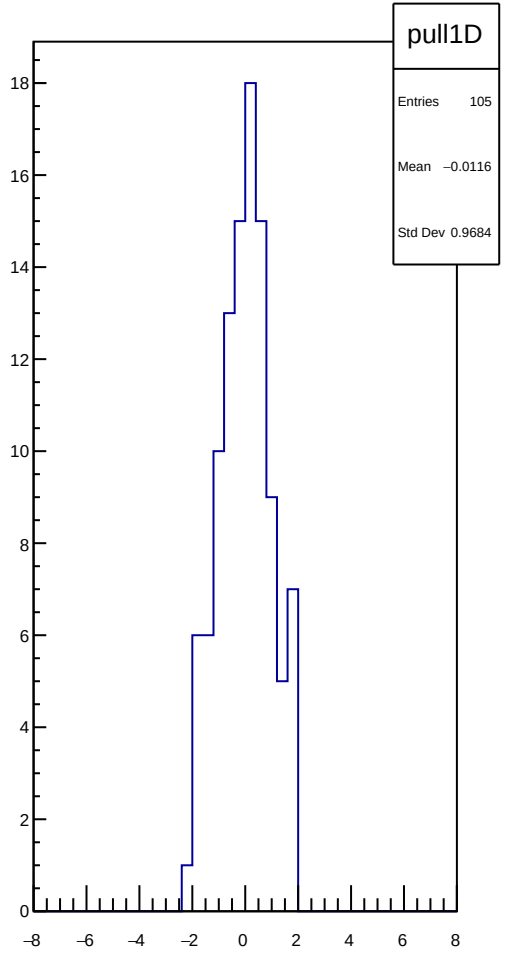

eigen_cor_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 2350 / 104
p0 1756 ± 1.228
1950
1900
1850
1800
1750
1700

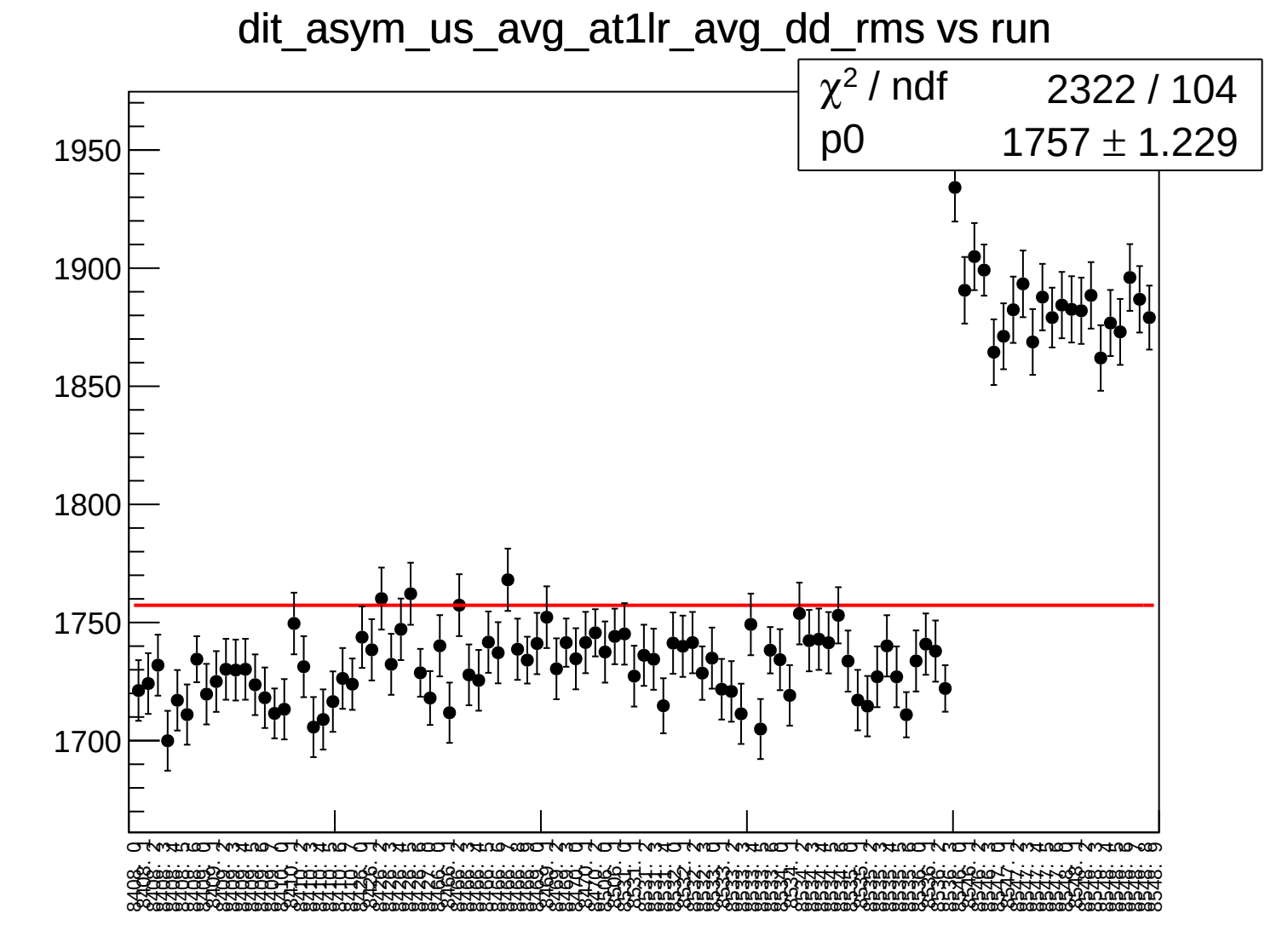

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_mean vs run
χ² / ndf 102.2 / 104
p0 670.2 ± 207.8
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 105
Mean 37.52
Std Dev 0
3
2
1
0
−1
−2
−3

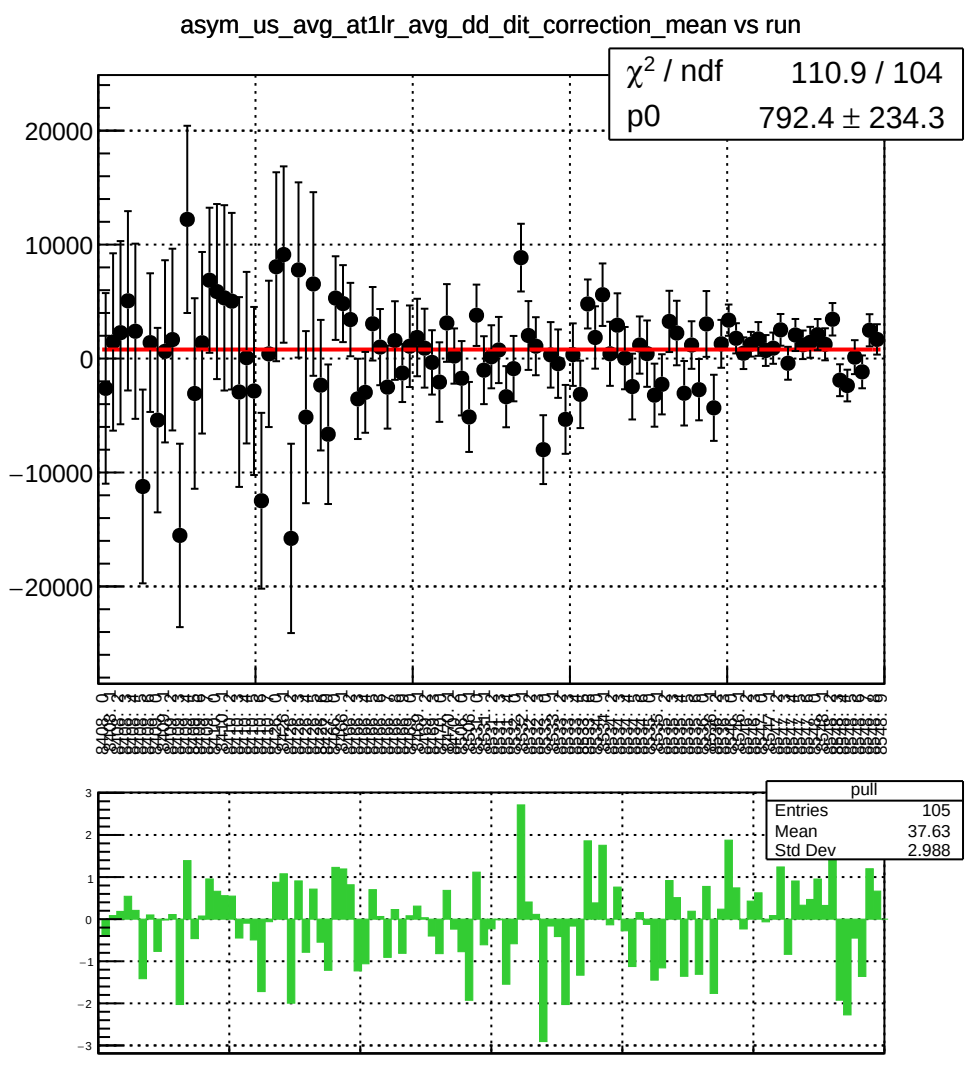

pull1D
Entries 105
Mean −0.07844
Std Dev 0.9835
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

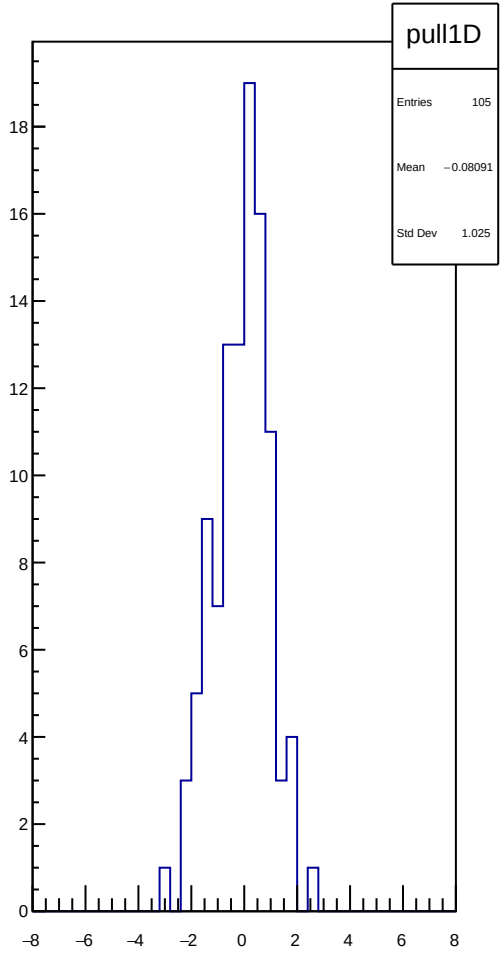

asym_us_avg_at1lr_avg_dd_eigen_cor_correction_rms vs run
χ^2 / ndf 6.332e+05 / 104
p0 174.6 ± 0.1469
800
700
600
500
400
300
200
100

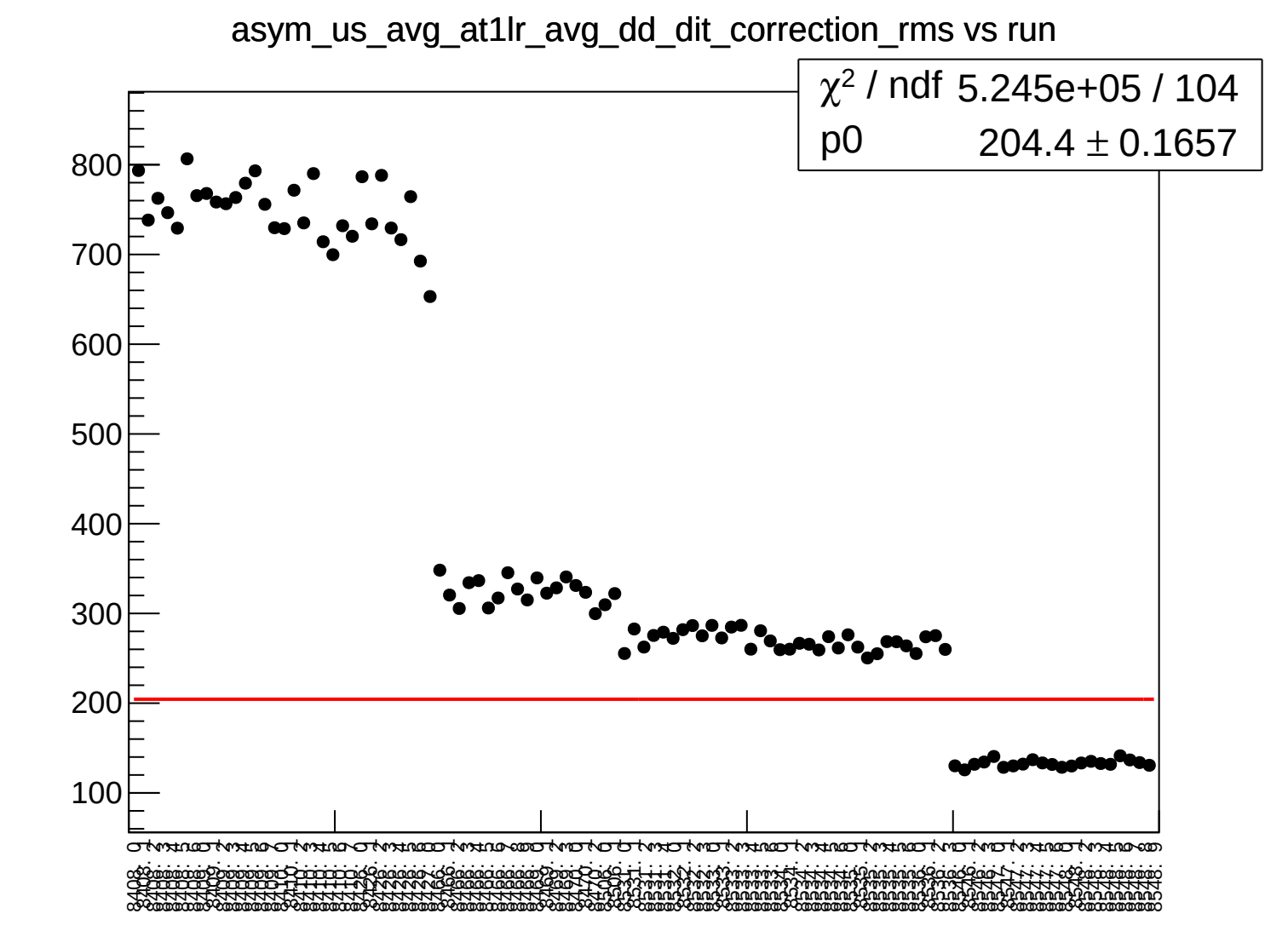

dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 98.49 / 104
p0 −1547 ± 1738
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean 225.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

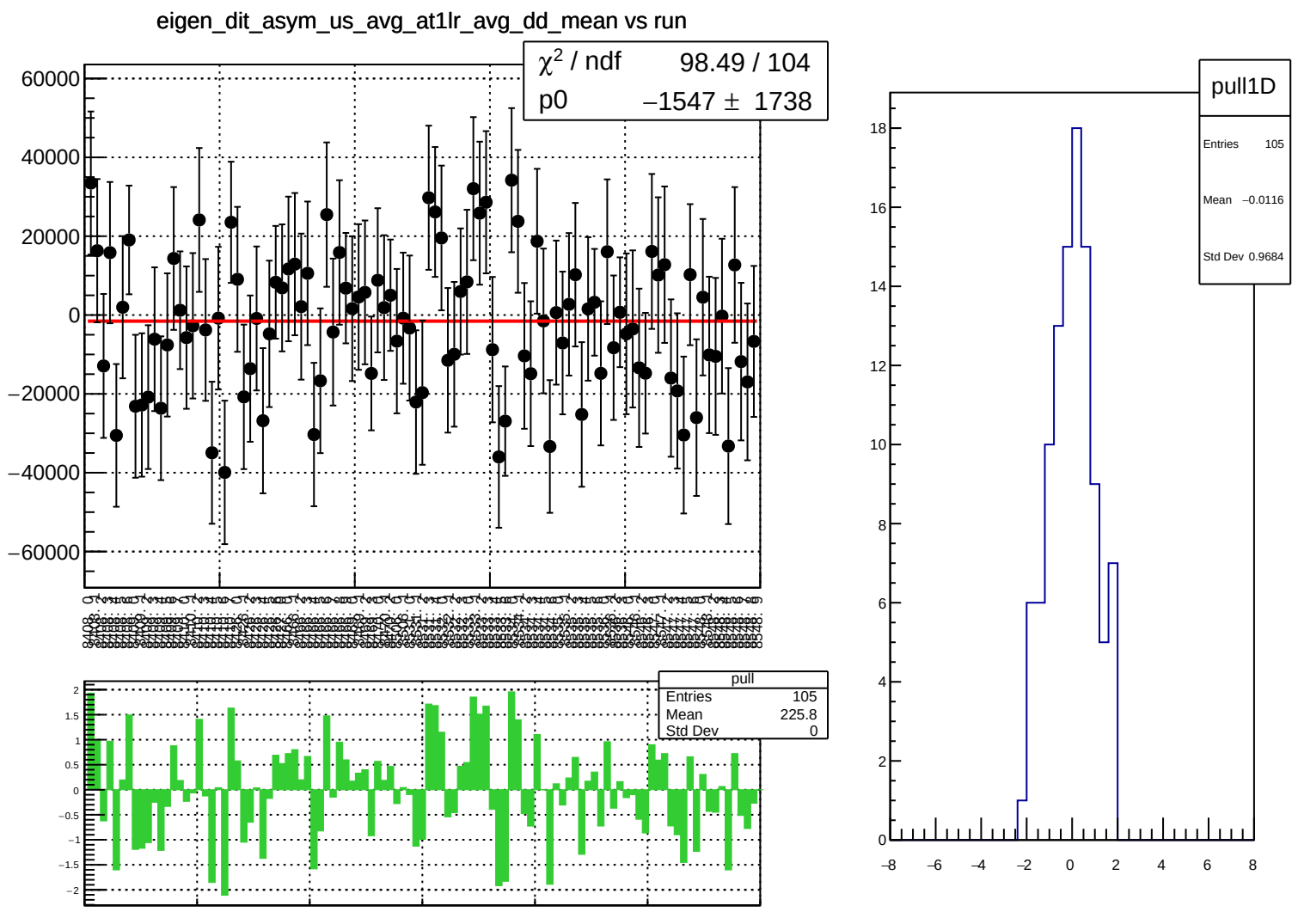

pull1D
Entries 105
Mean −0.0116
Std Dev 0.9684
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

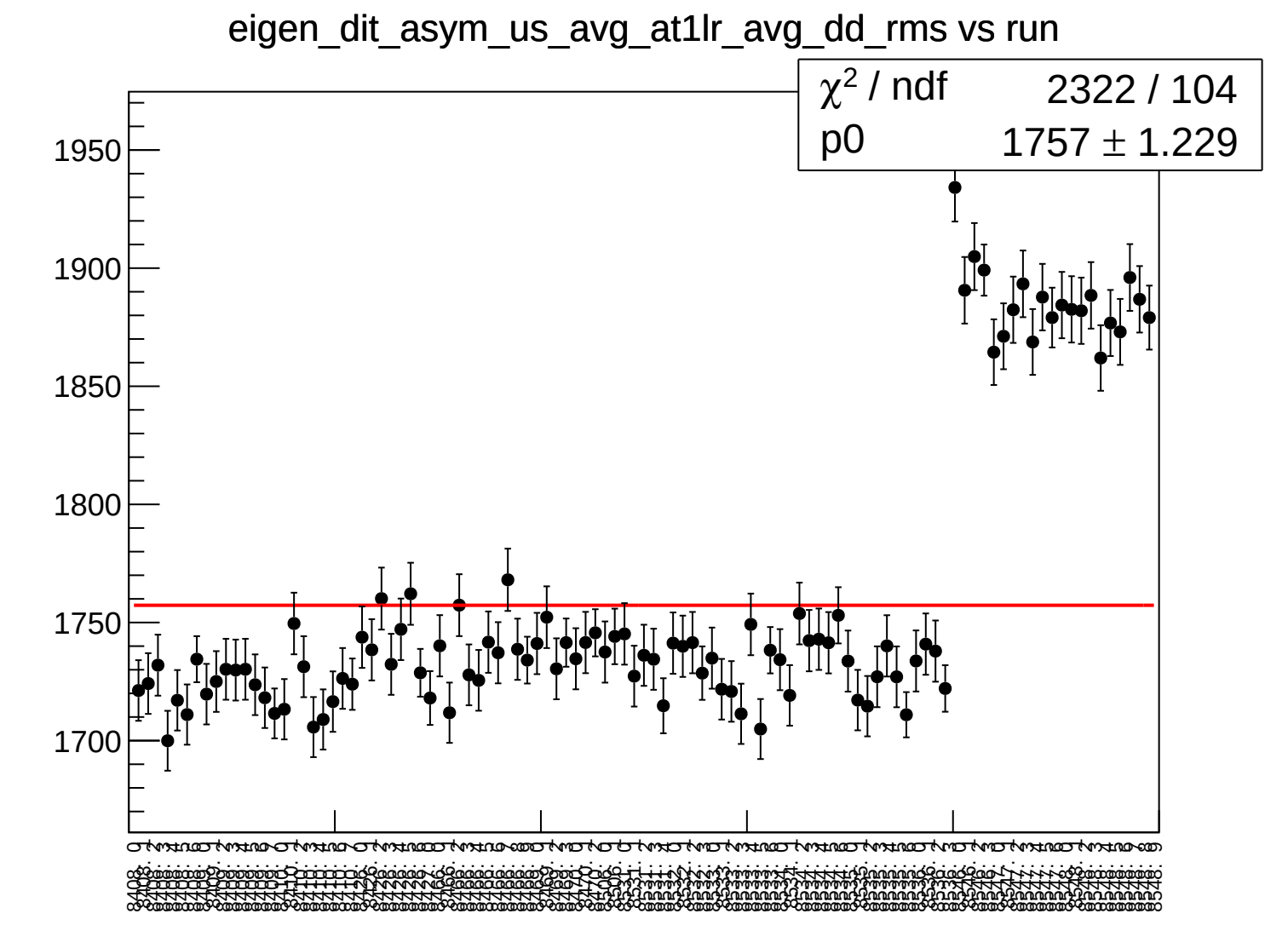

dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 2322 / 104
p0 1757 ± 1.229
1950
1900
1850
1800
1750
1700

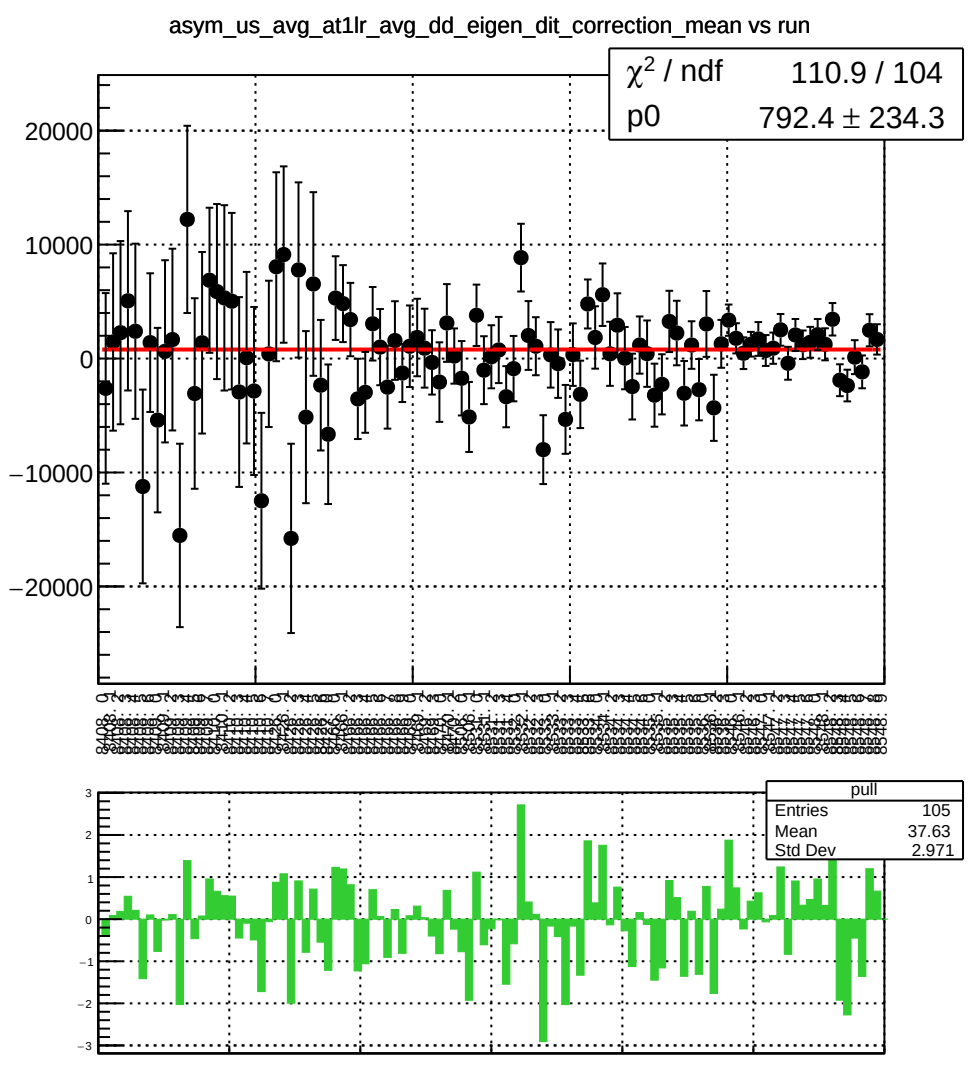

asym_us_avg_at1lr_avg_dd_dit_correction_mean vs run
χ² / ndf 110.9 / 104
p0 792.4 ± 234.3
20000
10000
0
−10000
−20000
pull
Entries 105
Mean 37.63
Std Dev 2.988
3
2
1
0
−1
−2
−3

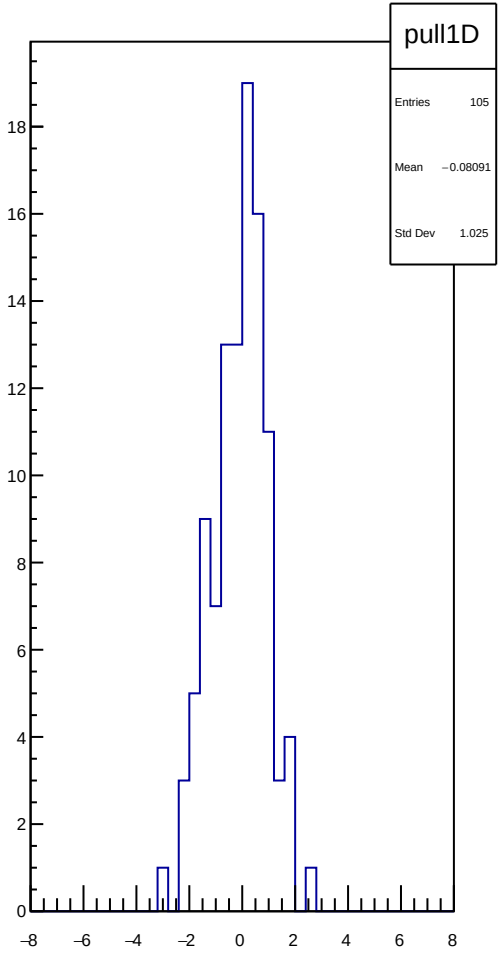

pull1D
Entries 105
Mean −0.08091
Std Dev 1.025
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

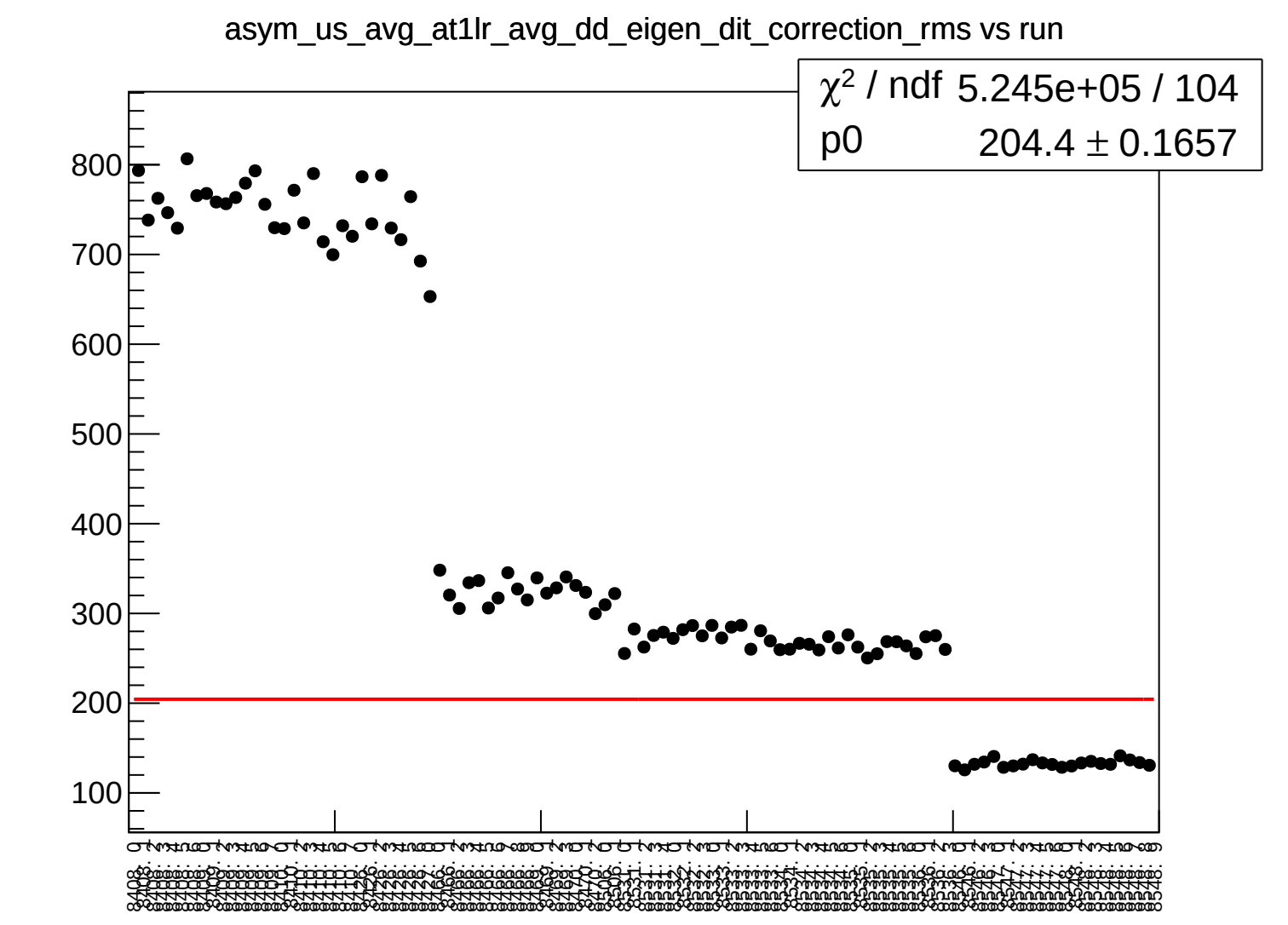

asym_us_avg_at1lr_avg_dd_dit_correction_rms vs run
χ^2 / ndf 5.245e+05 / 104
p0 204.4 ± 0.1657
800
700
600
500
400
300
200
100

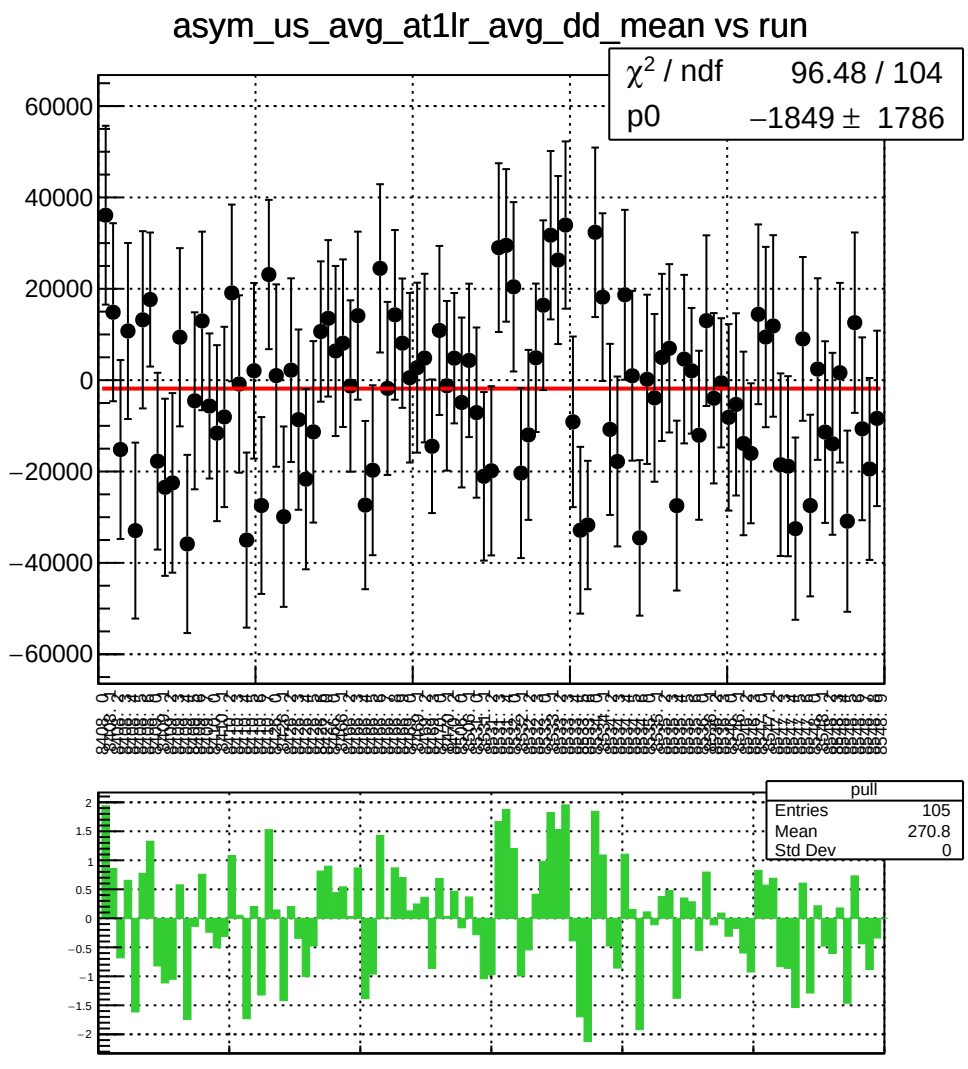

eigen_dit_asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 98.49 / 104
p0 −1547 ± 1738
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean 225.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 105
Mean −0.0116
Std Dev 0.9684
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

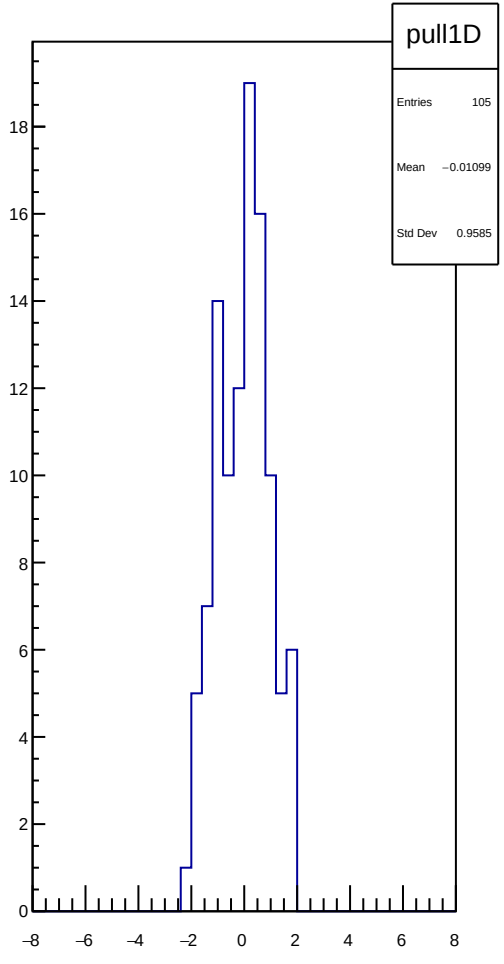

eigen_dit_asym_us_avg_at1lr_avg_dd_rms vs run
χ² / ndf 2322 / 104
p0 1757 ± 1.229
1950
1900
1850
1800
1750
1700

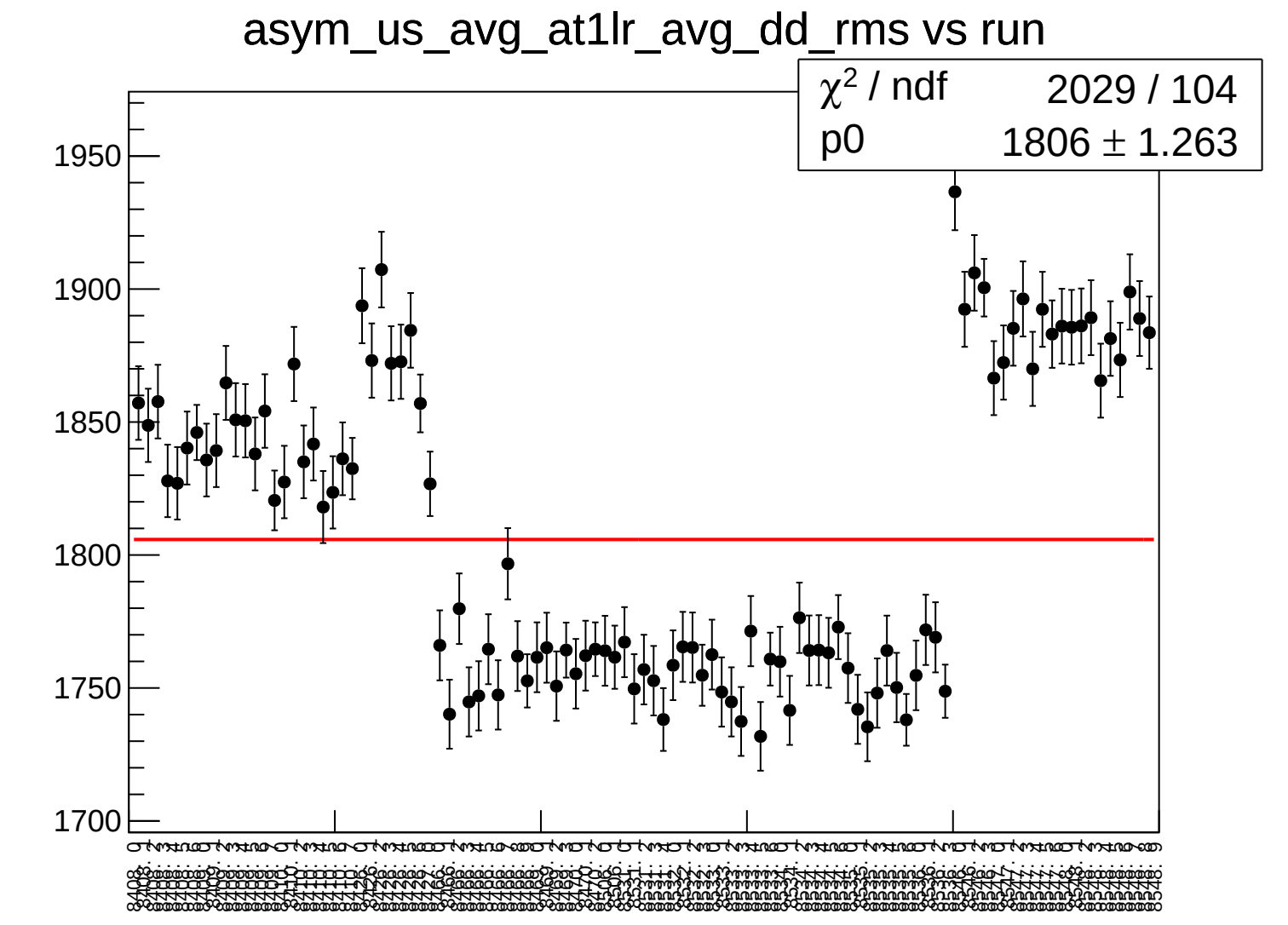

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_mean vs run
χ² / ndf 110.9 / 104
p0 792.4 ± 234.3
20000
10000
0
−10000
−20000
pull
Entries 105
Mean 37.63
Std Dev 2.971
3
2
1
0
−1
−2
−3

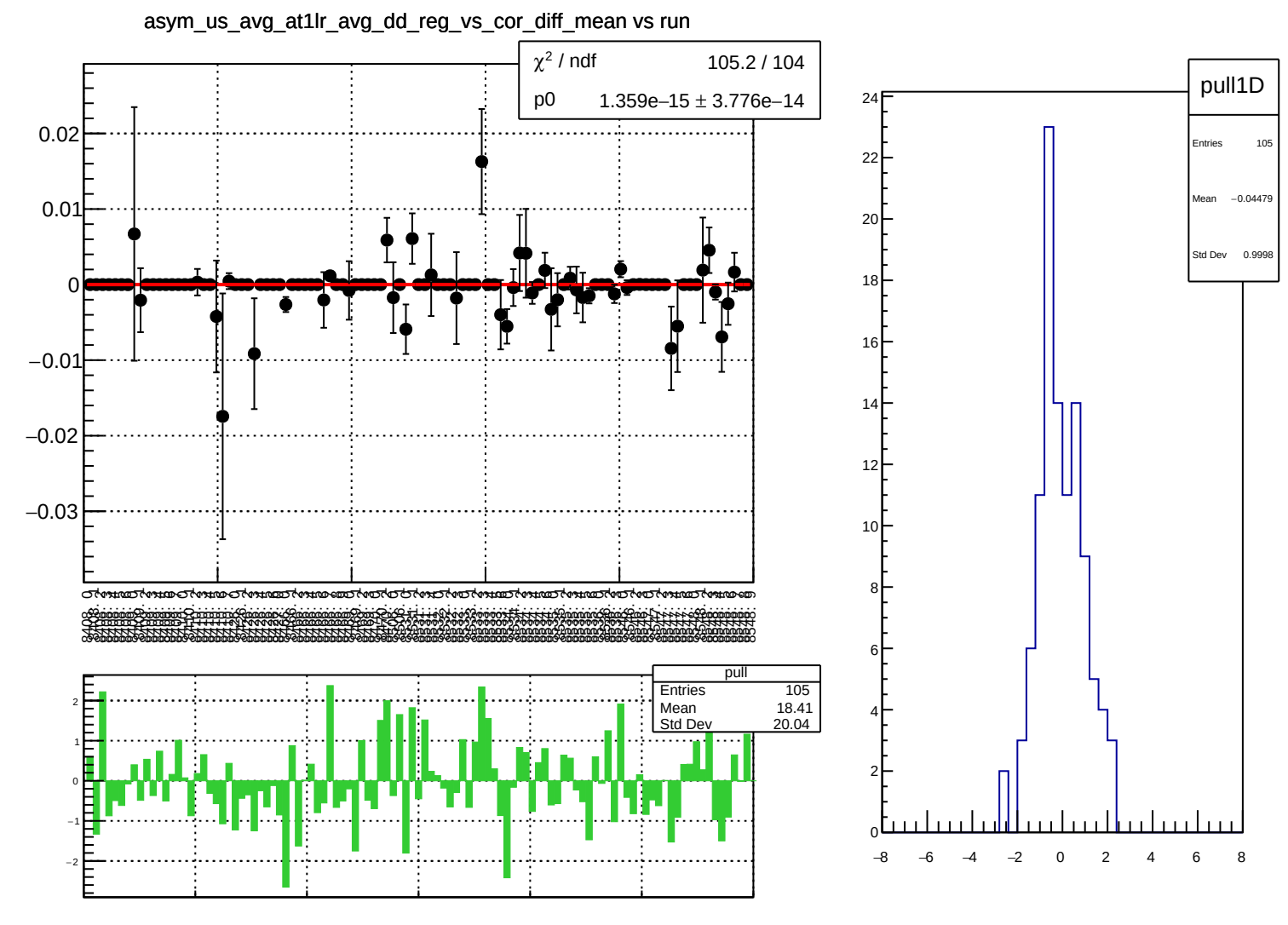

pull1D
Entries 105
Mean −0.08091
Std Dev 1.025
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

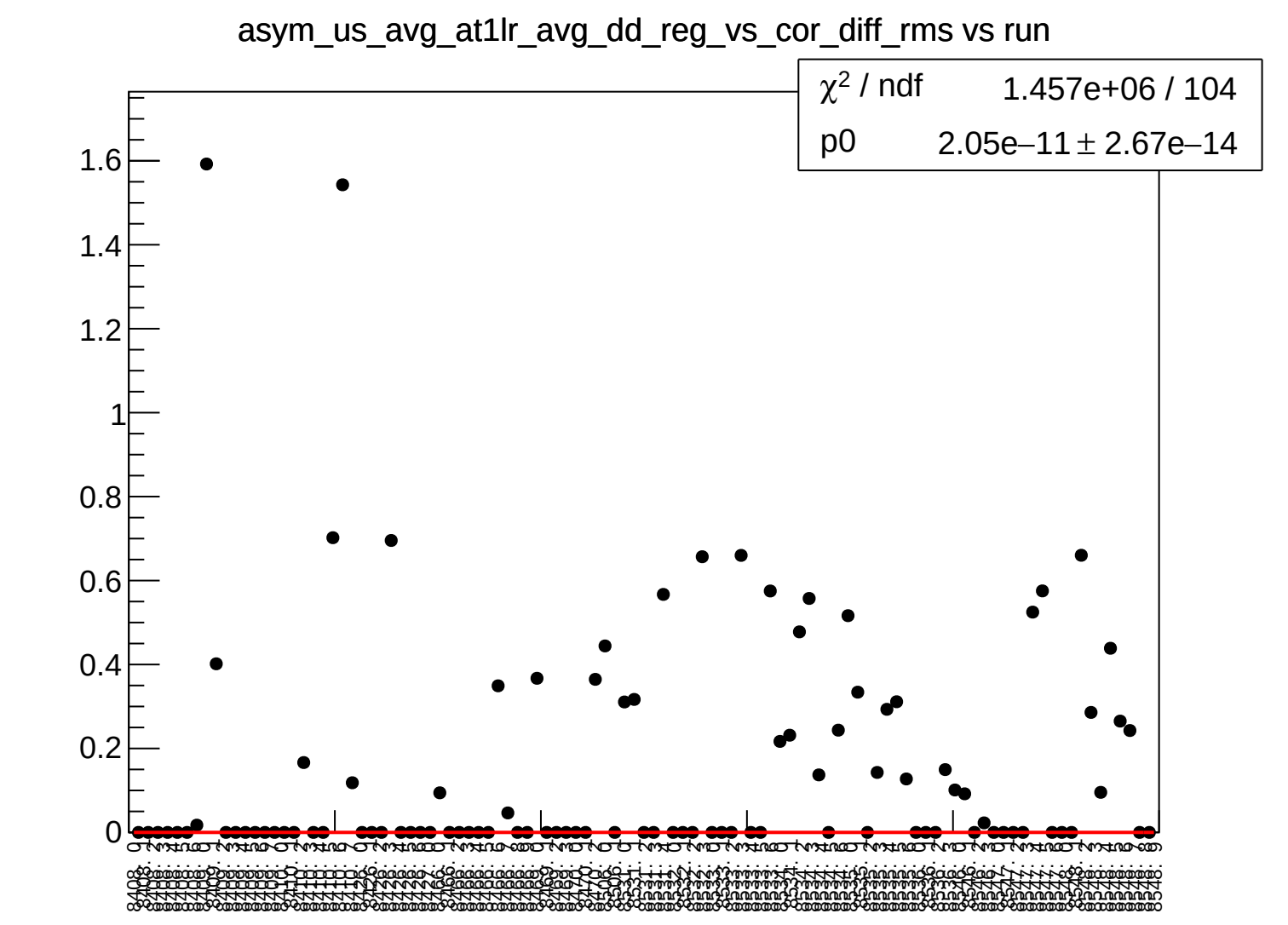

asym_us_avg_at1lr_avg_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 5.245e+05 / 104
p0 204.4 ± 0.1657
800
700
600
500
400
300
200
100

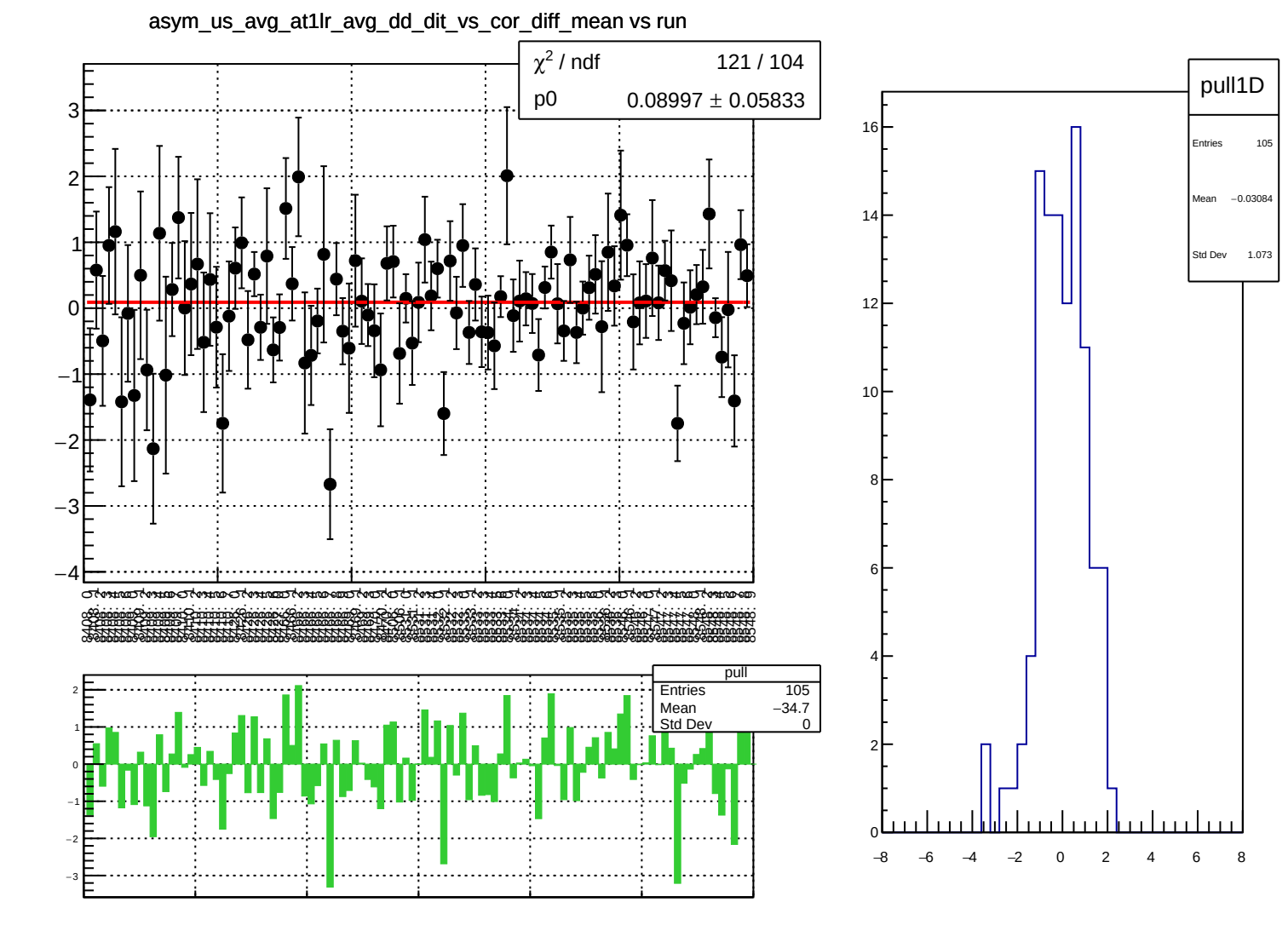

asym_us_avg_at1lr_avg_dd_mean vs run
χ² / ndf 96.48 / 104
p0 −1849 ± 1786
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean 270.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

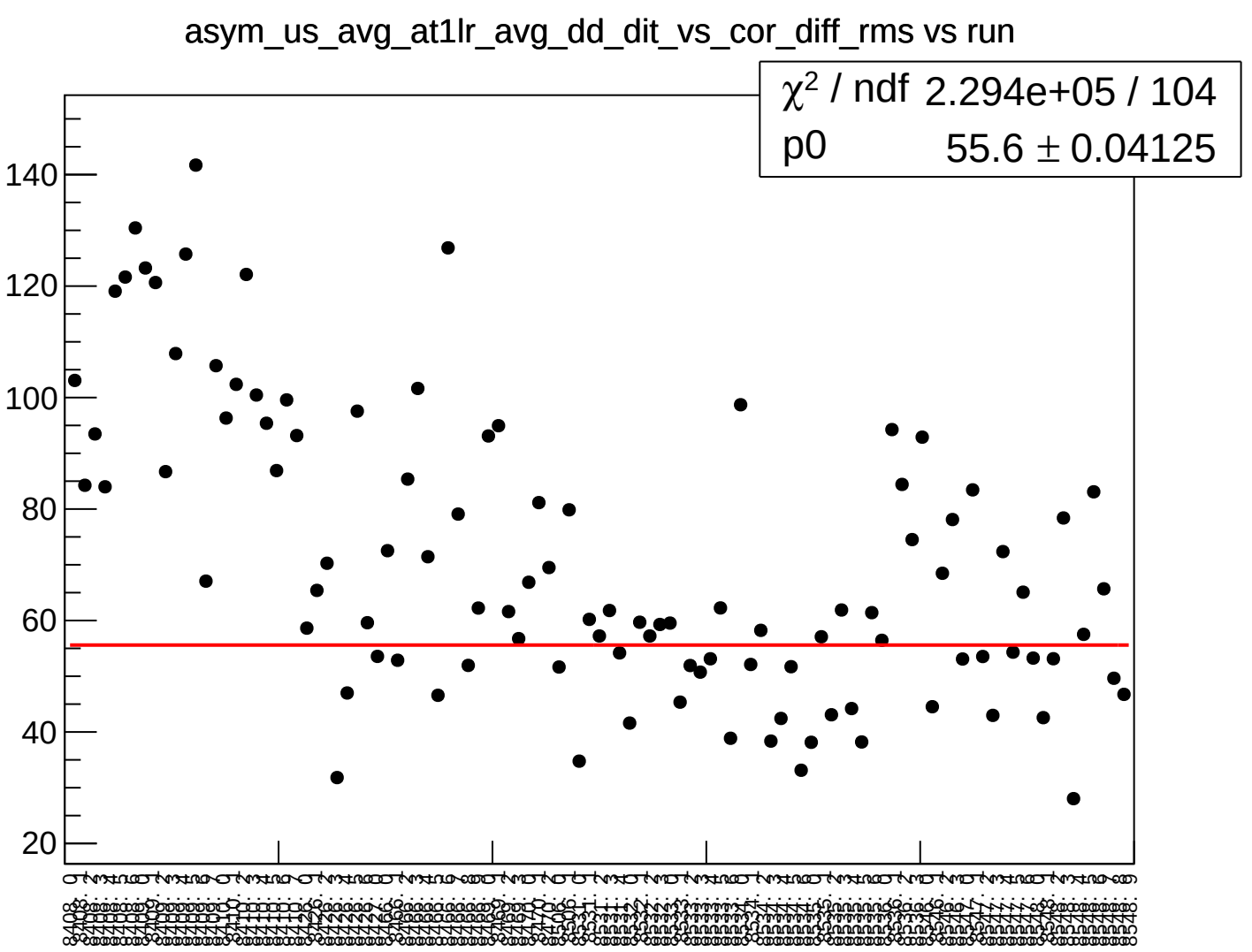

pull1D
Entries 105
Mean −0.01099
Std Dev 0.9585
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

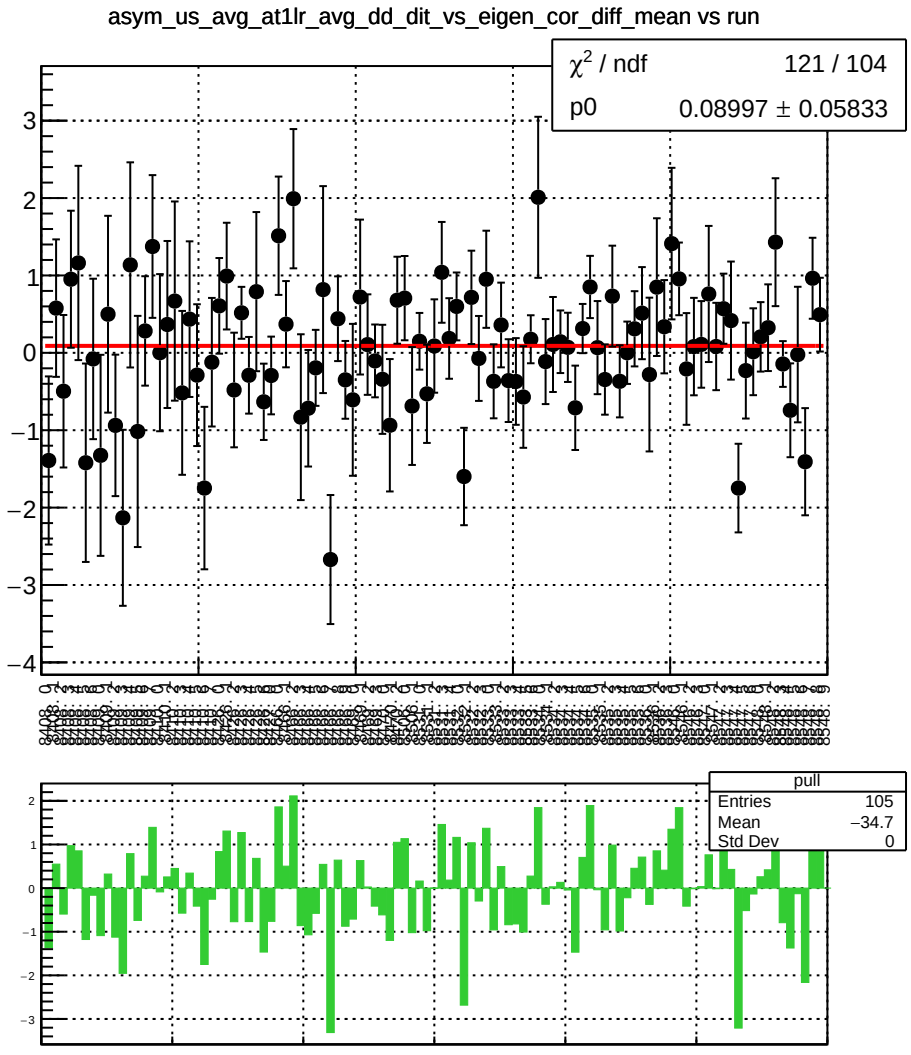

asym_us_avg_at1lr_avg_dd_rms vs run
χ^2 / ndf 2029 / 104
p0 1806 ± 1.263
1950
1900
1850
1800
1750
1700

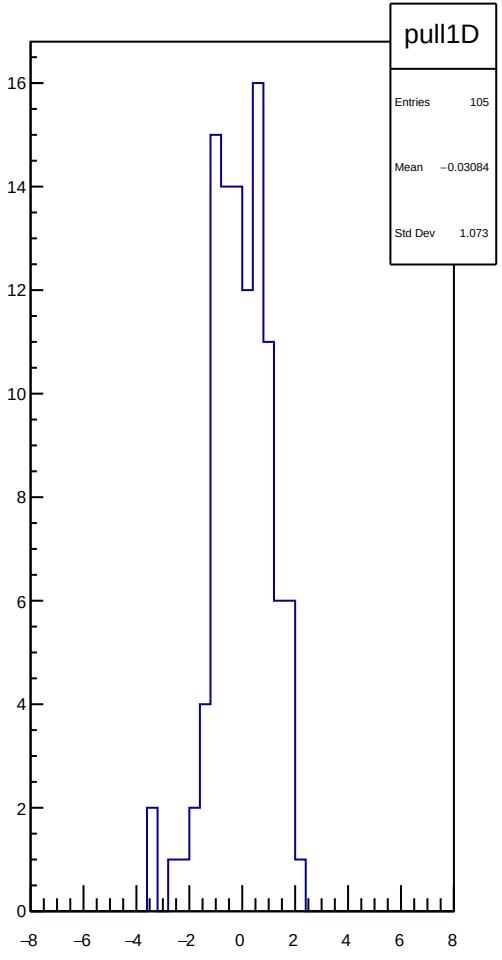

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 105.2 / 104
p0 1.359e−15 ± 3.776e−14
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 105
Mean 18.41
Std Dev 20.04
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.04479
Std Dev 0.9998
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

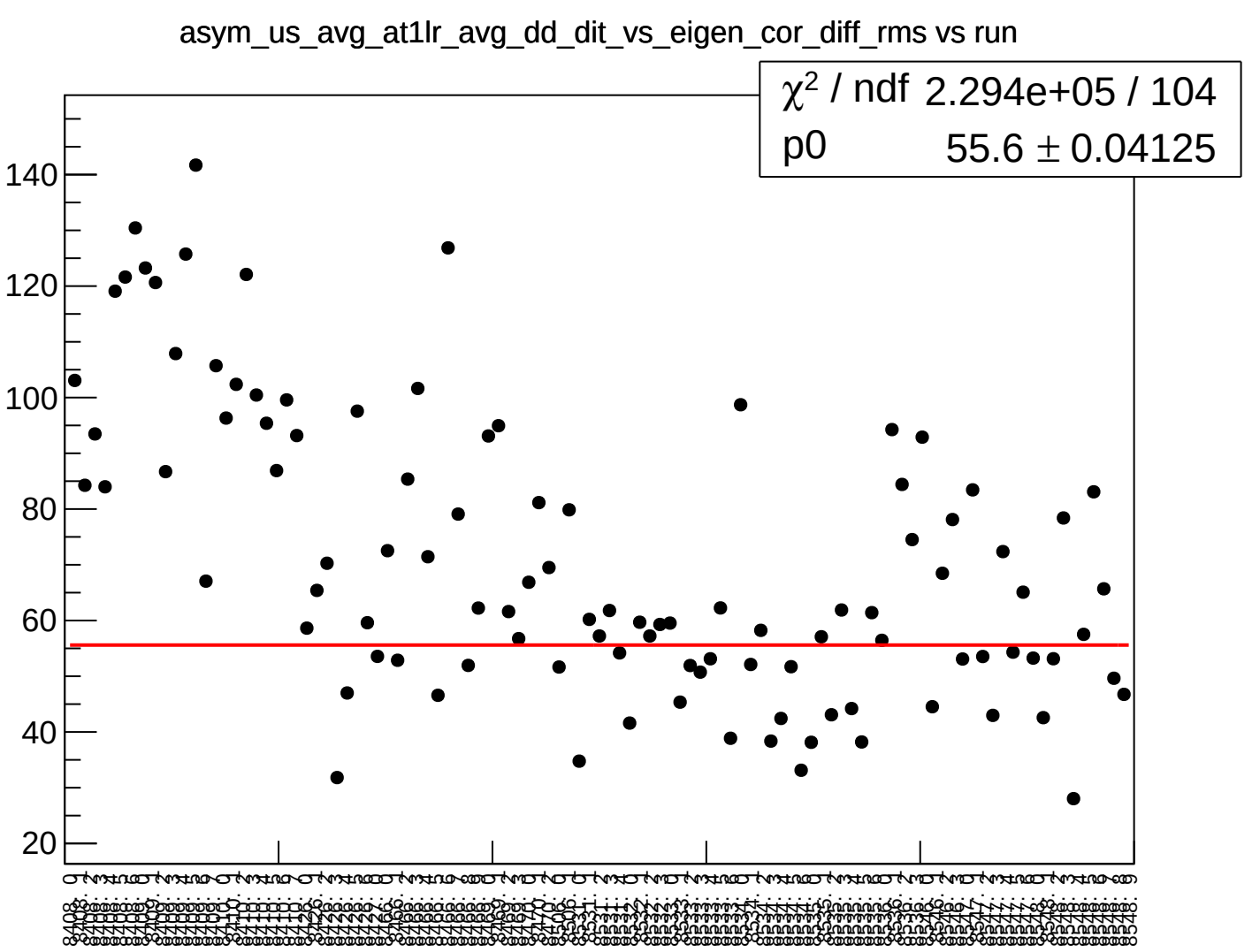

asym_us_avg_at1lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.457e+06 / 104
p0 2.05e−11 ± 2.67e−14
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

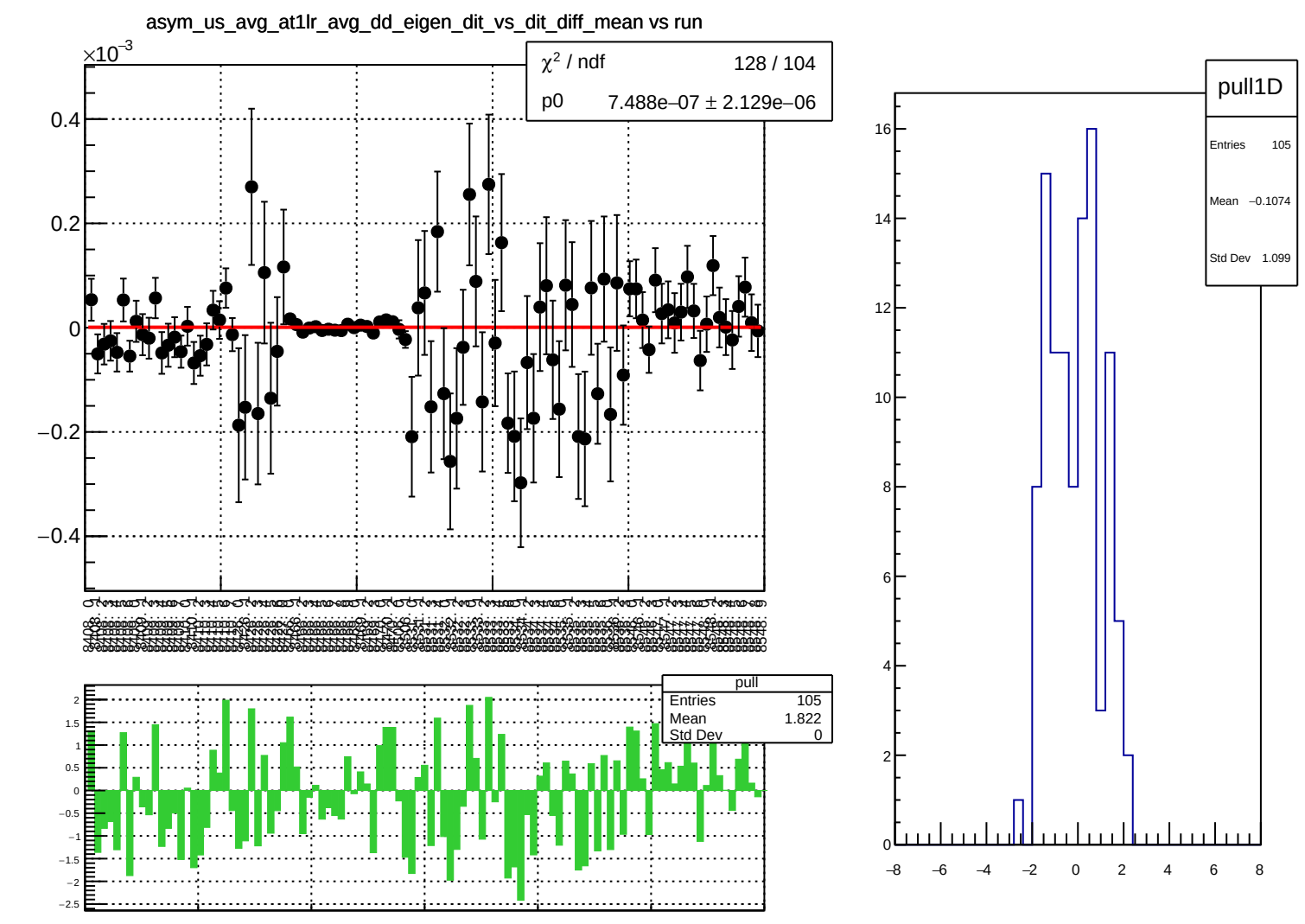

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 121 / 104
p0 0.08997 ± 0.05833
pull
Entries 105
Mean −34.7
Std Dev 0
pull1D
Entries 105
Mean −0.03084
Std Dev 1.073

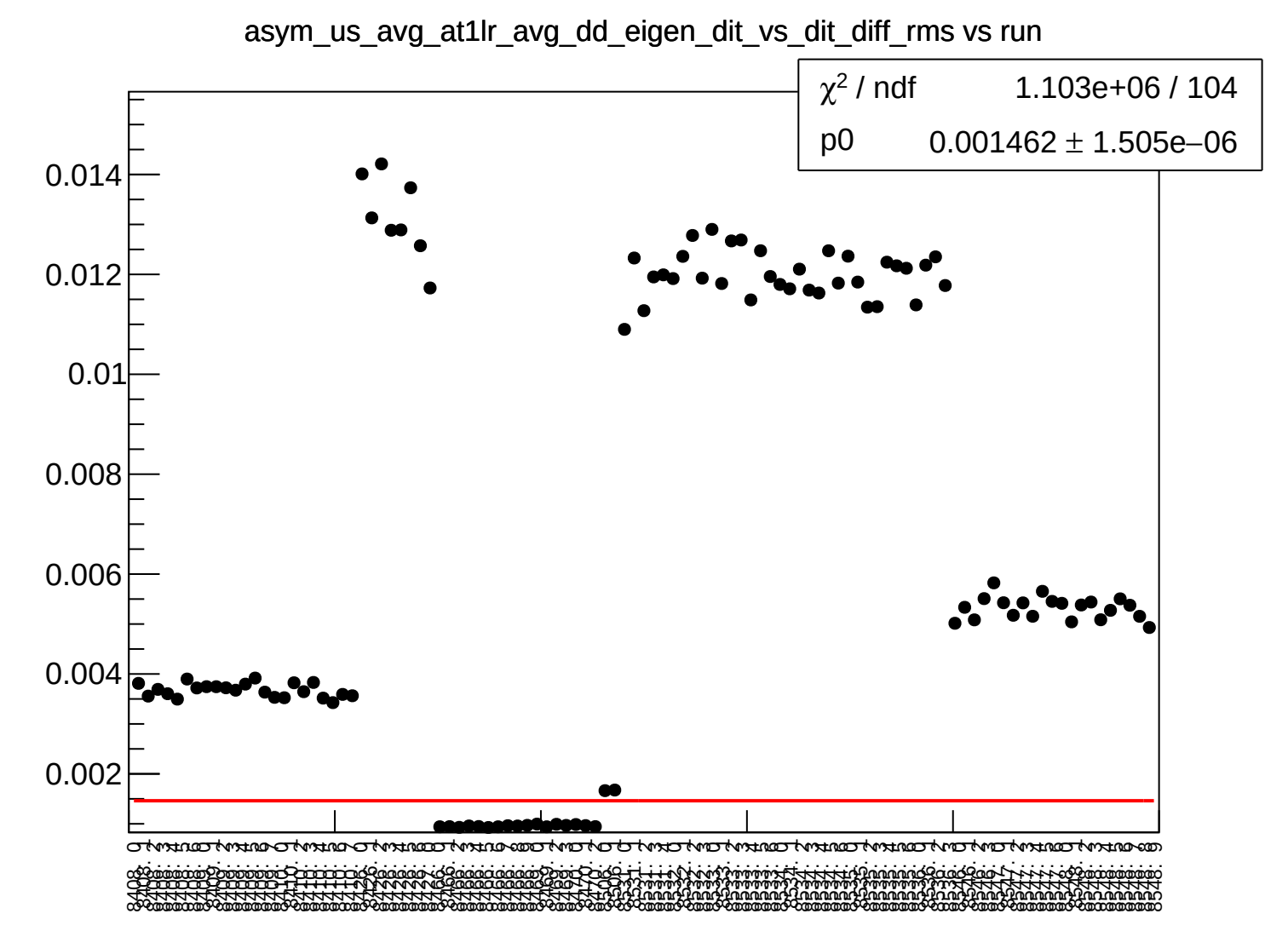

asym_us_avg_at1lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.294e+05 / 104
p0 55.6 ± 0.04125
140
120
100
80
60
40
20

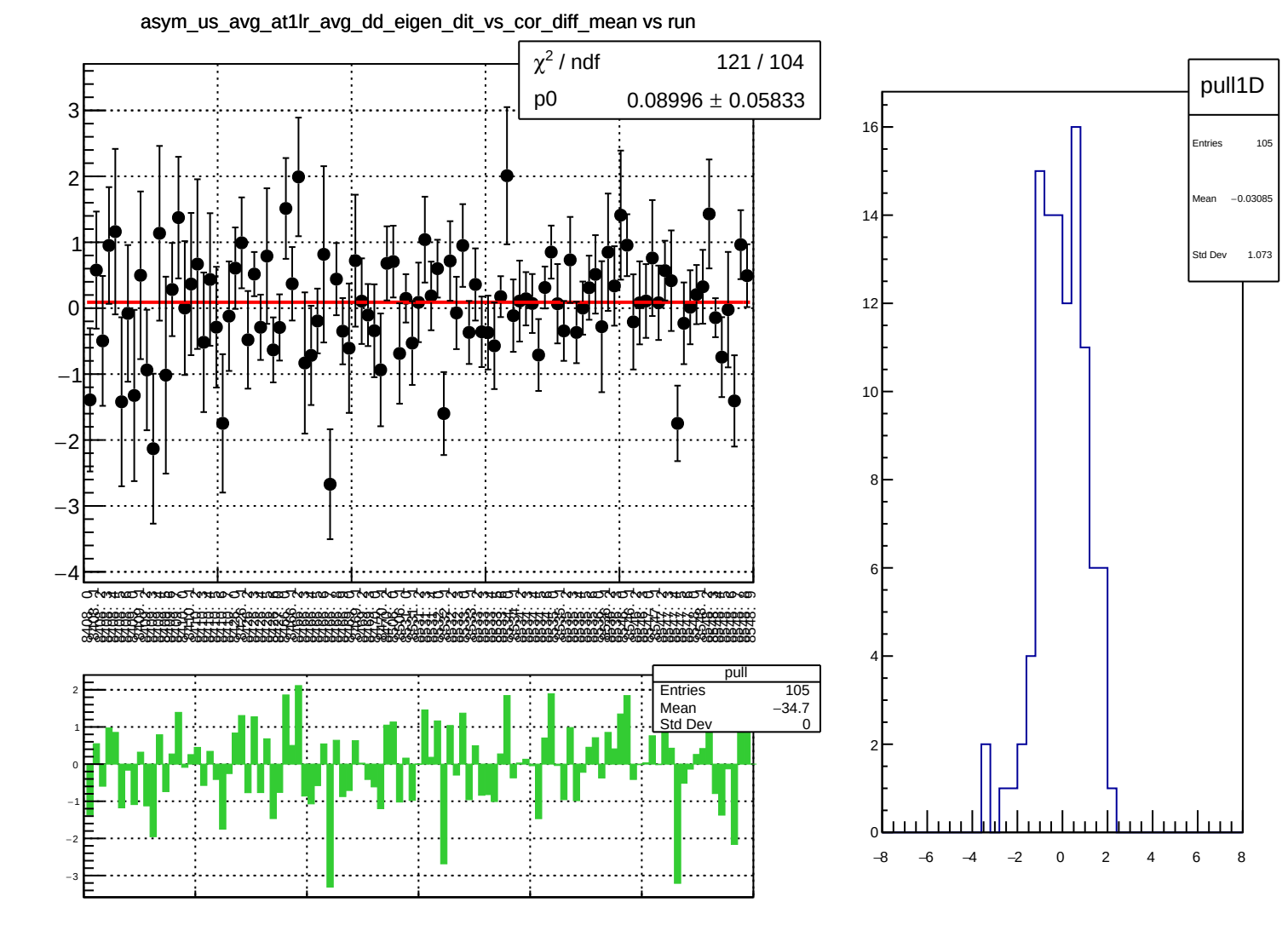

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 121 / 104
p0 0.08997 ± 0.05833
pull
Entries 105
Mean −34.7
Std Dev 0

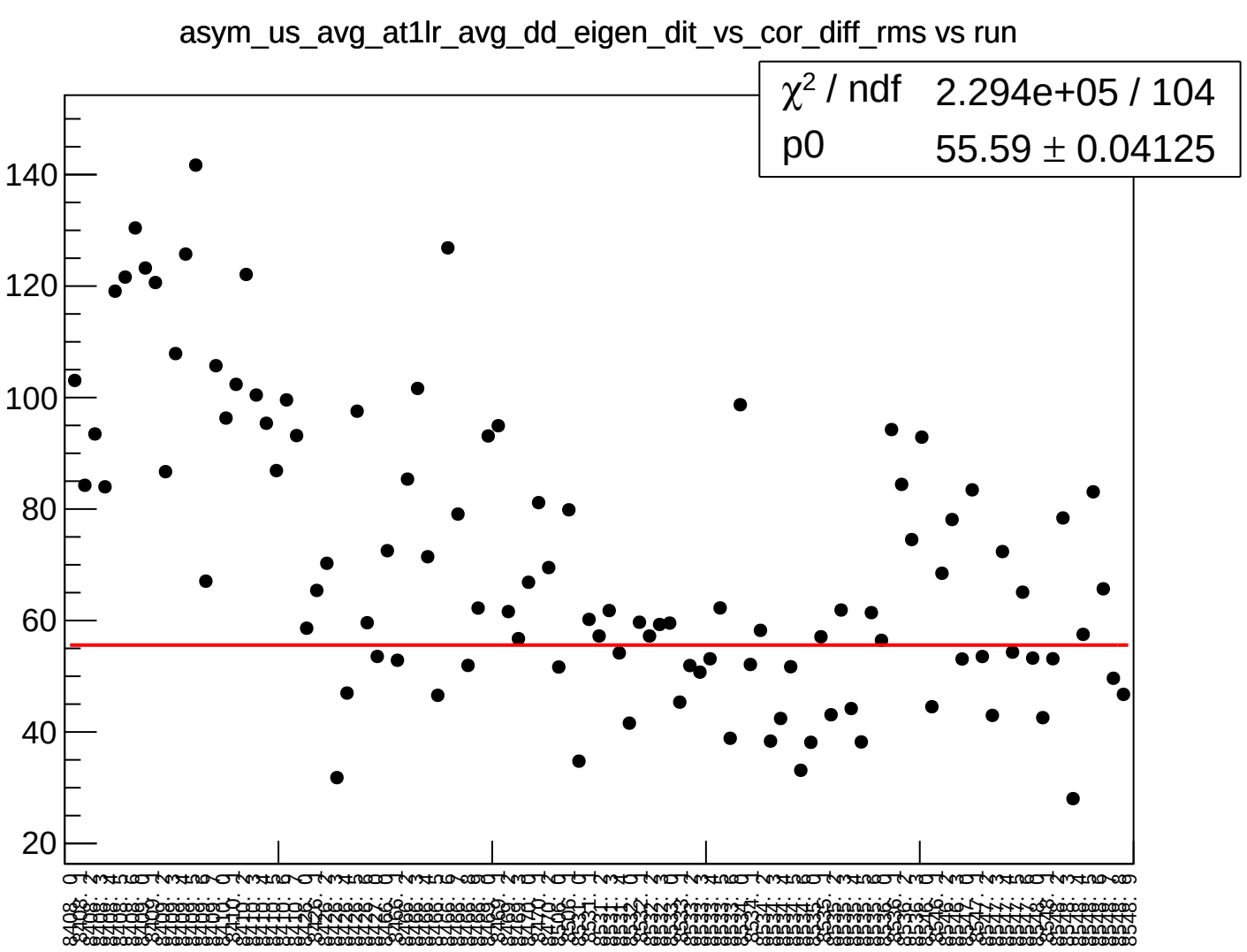

pull1D
Entries 105
Mean −0.03084
Std Dev 1.073

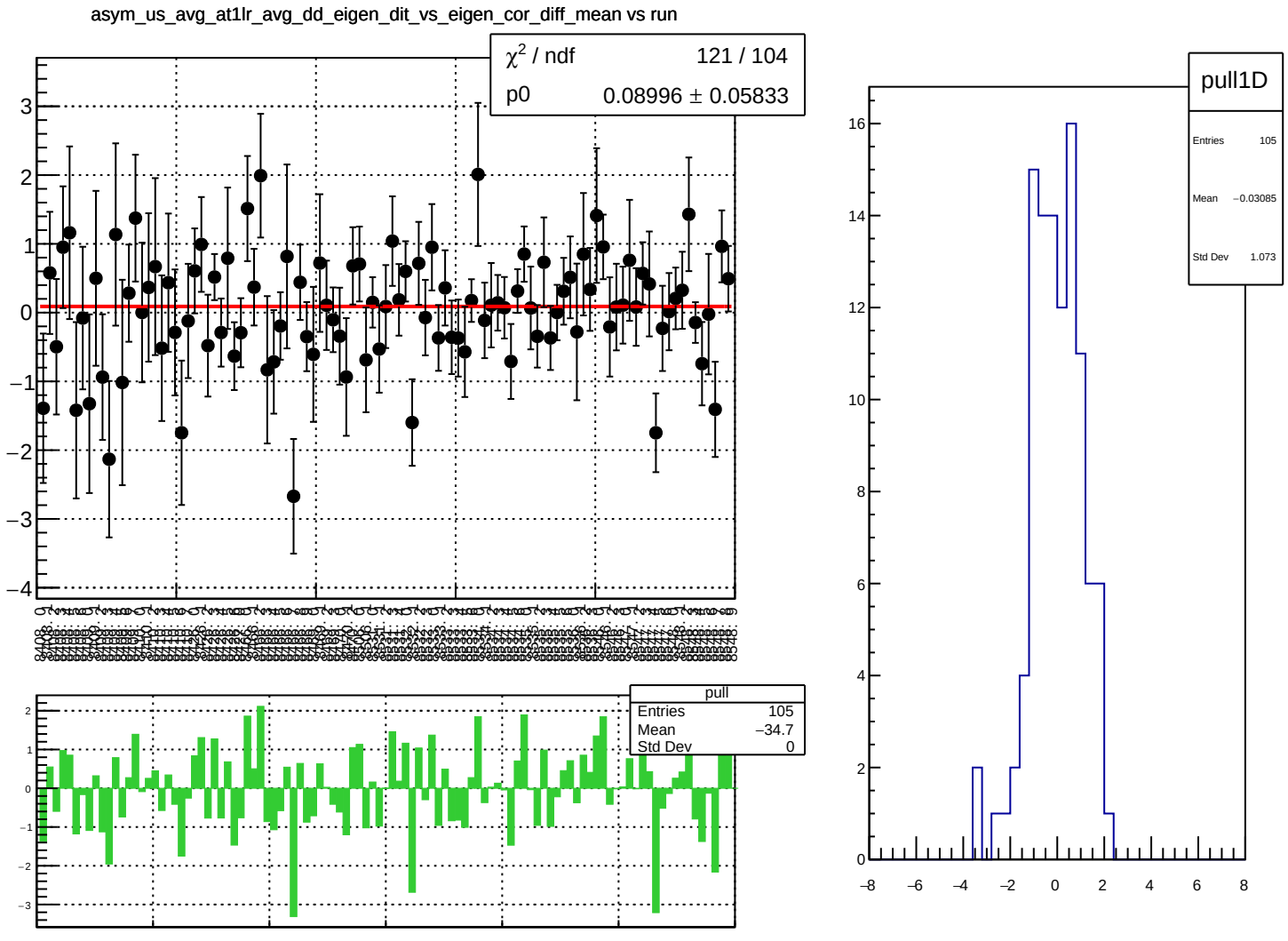

asym_us_avg_at1lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.294e+05 / 104
p0 55.6 ± 0.04125
140
120
100
80
60
40
20

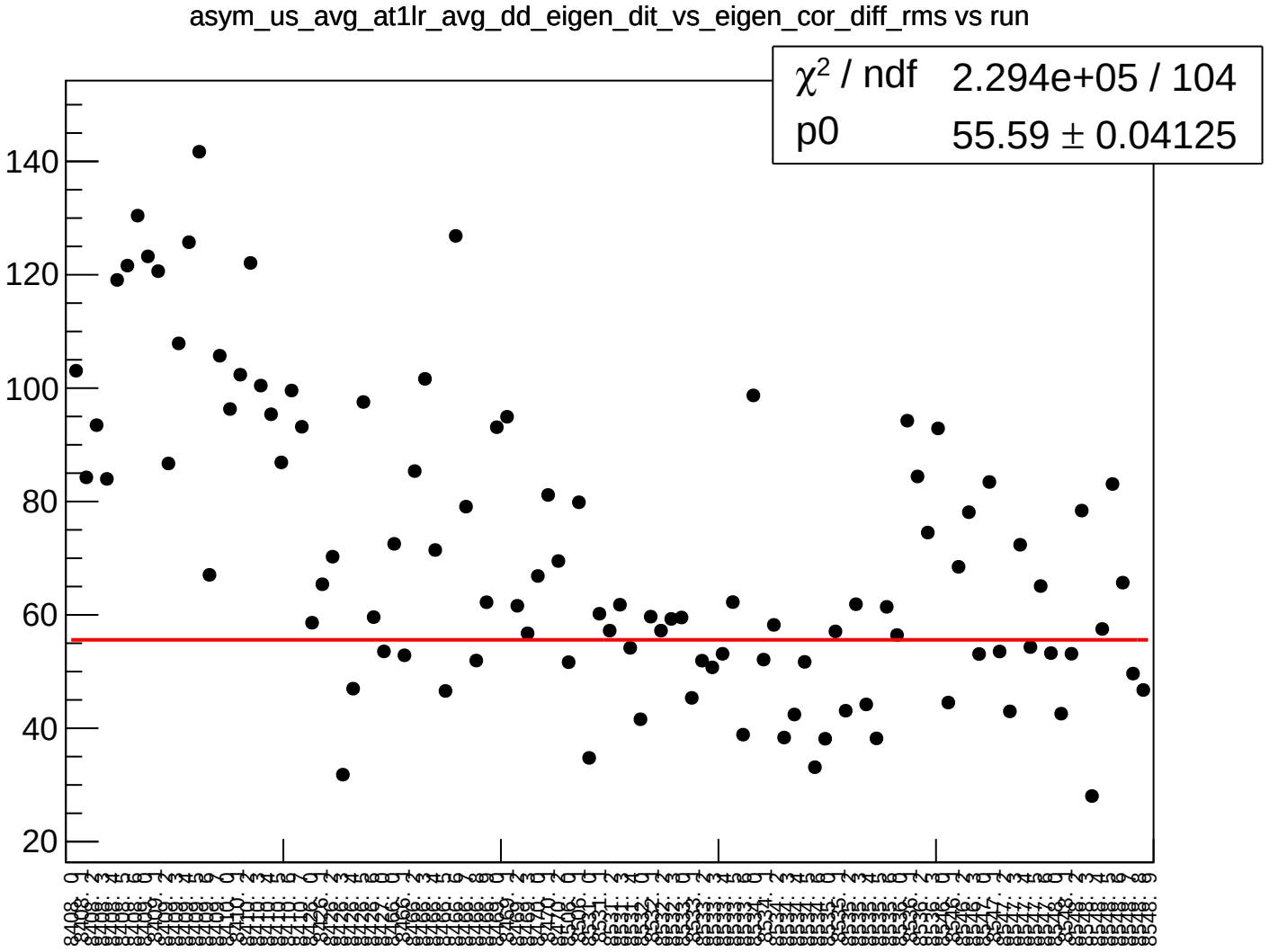

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 128 / 104
p0 7.488e−07 ± 2.129e−06
0.4
0.2
0
−0.2
−0.4
pull
Entries 105
Mean 1.822
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 105
Mean −0.1074
Std Dev 1.099
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

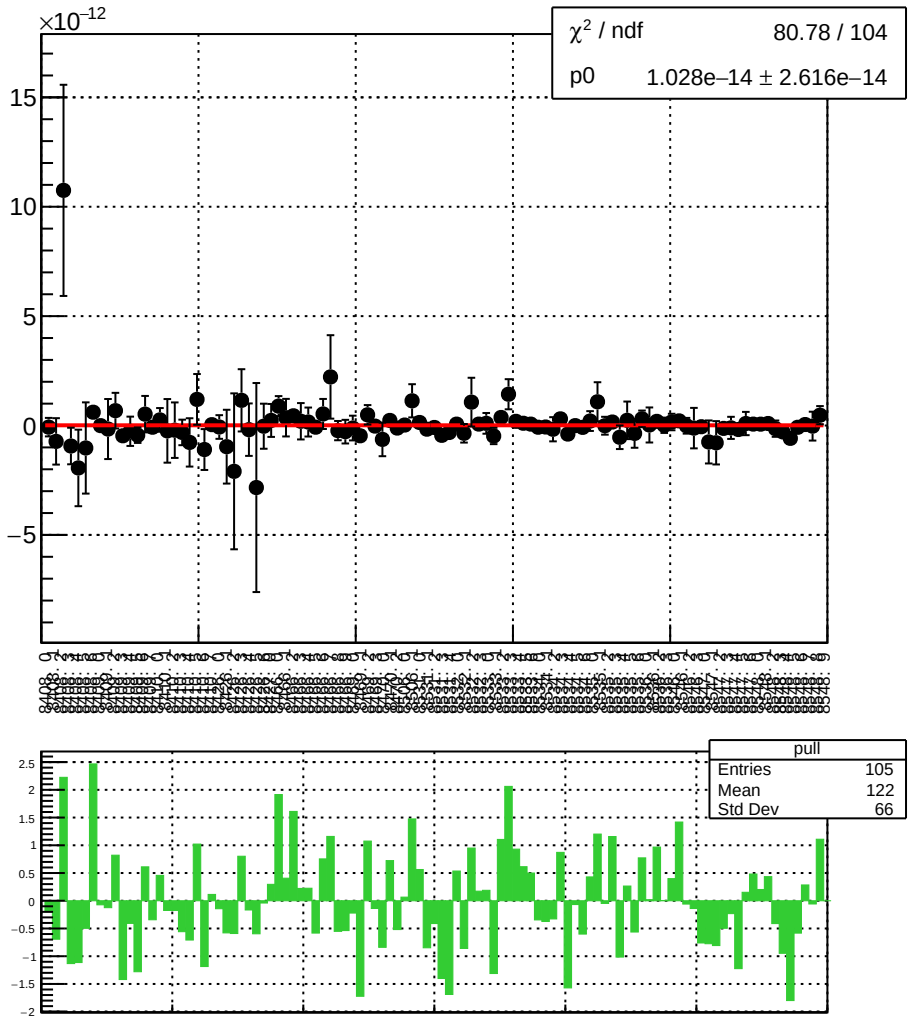

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ^2 / ndf 1.103e+06 / 104
p0 0.001462 ± 1.505e−06
0.014
0.012
0.01
0.008
0.006
0.004
0.002

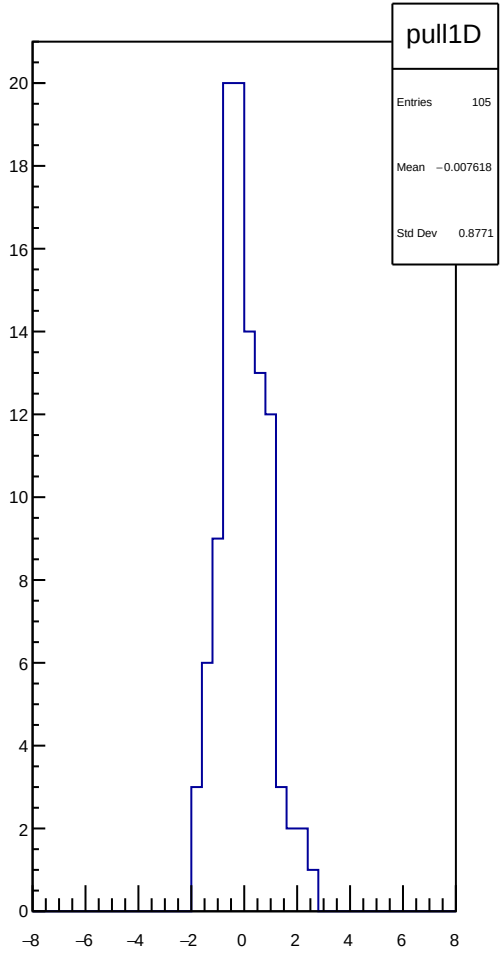

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 121 / 104
p0 0.08996 ± 0.05833
pull
Entries 105
Mean −34.7
Std Dev 0
pull1D
Entries 105
Mean −0.03085
Std Dev 1.073

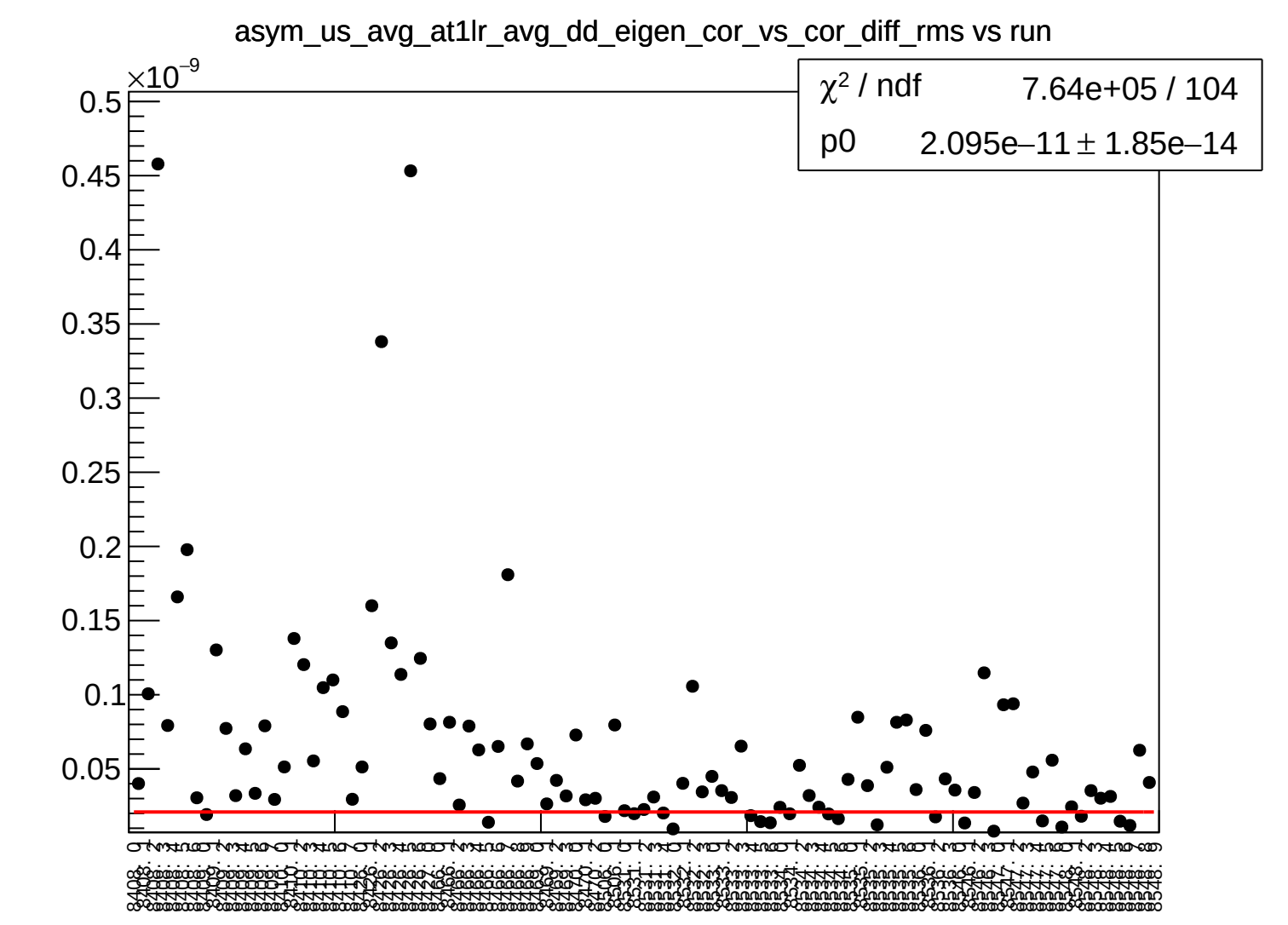

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.294e+05 / 104
p0 55.59 ± 0.04125
140
120
100
80
60
40
20

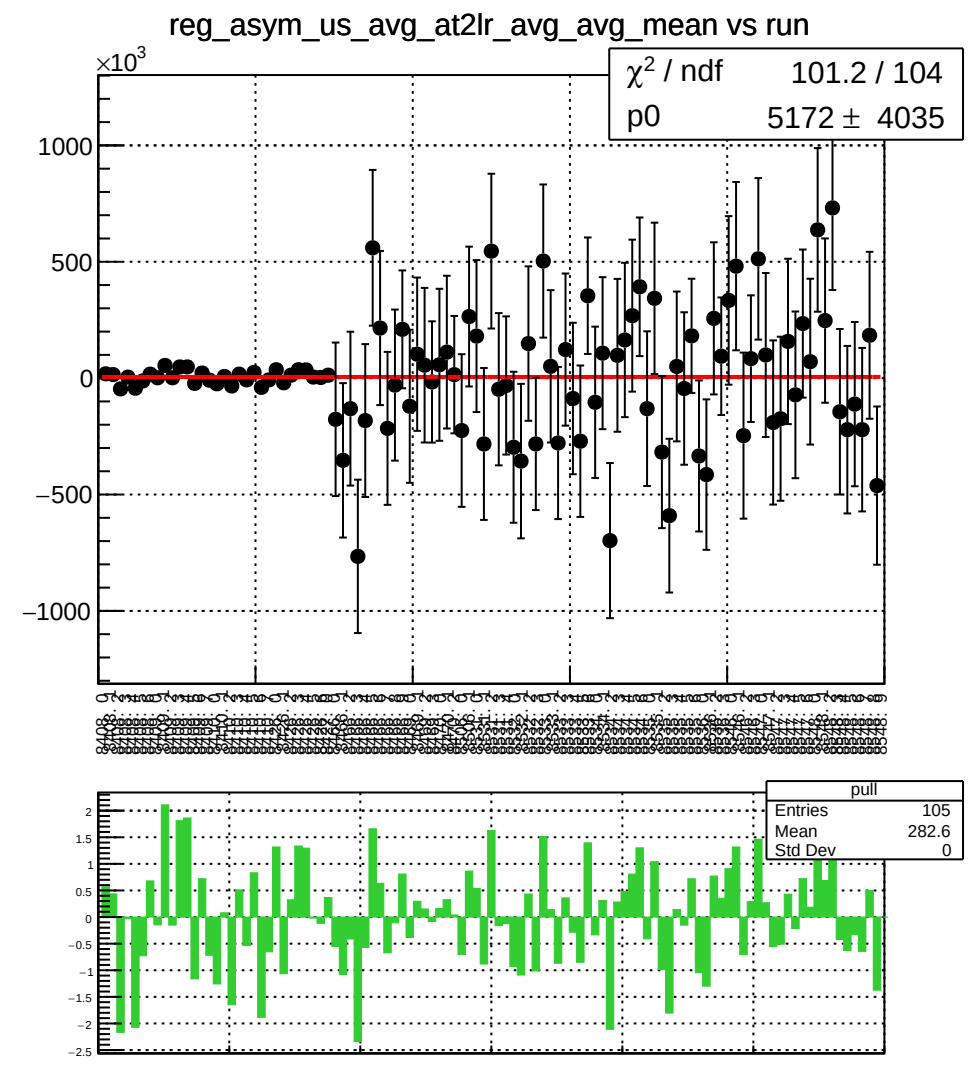

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 121 / 104
p0 0.08996 ± 0.05833
pull
Entries 105
Mean −34.7
Std Dev 0
pull1D
Entries 105
Mean −0.03085
Std Dev 1.073

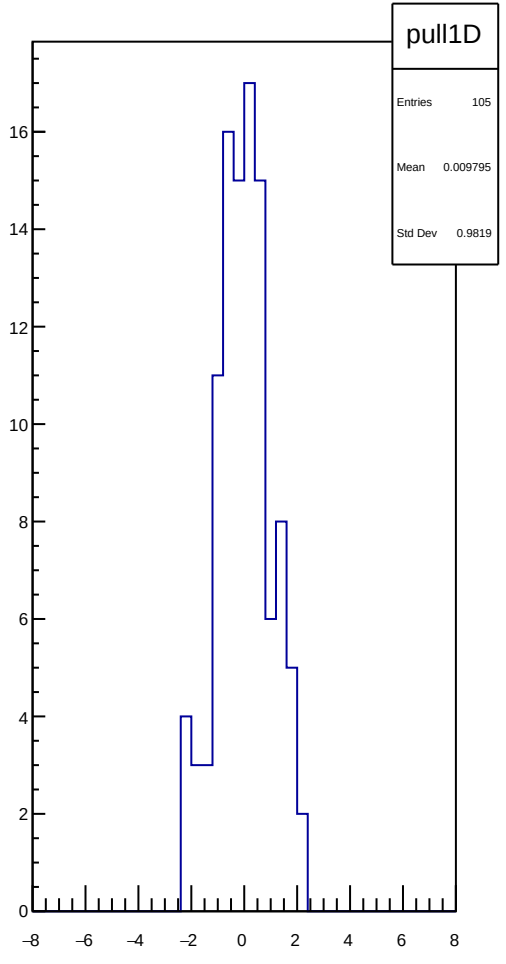

asym_us_avg_at1lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.294e+05 / 104
p0 55.59 ± 0.04125
140
120
100
80
60
40
20

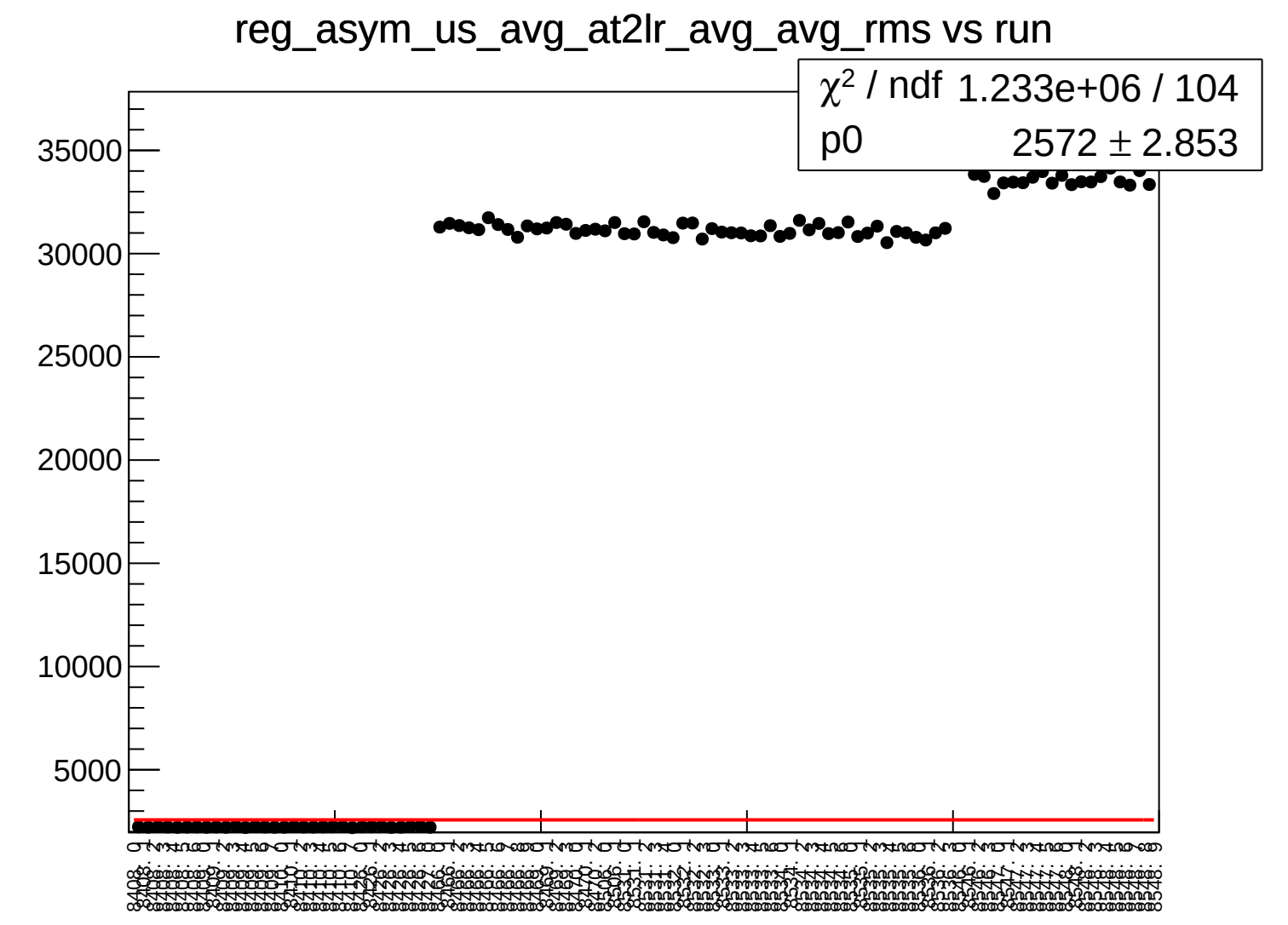

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.78 / 104
p0 1.028e−14 ± 2.616e−14
15
10
5
0
−5
pull
Entries 105
Mean 122
Std Dev 66
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

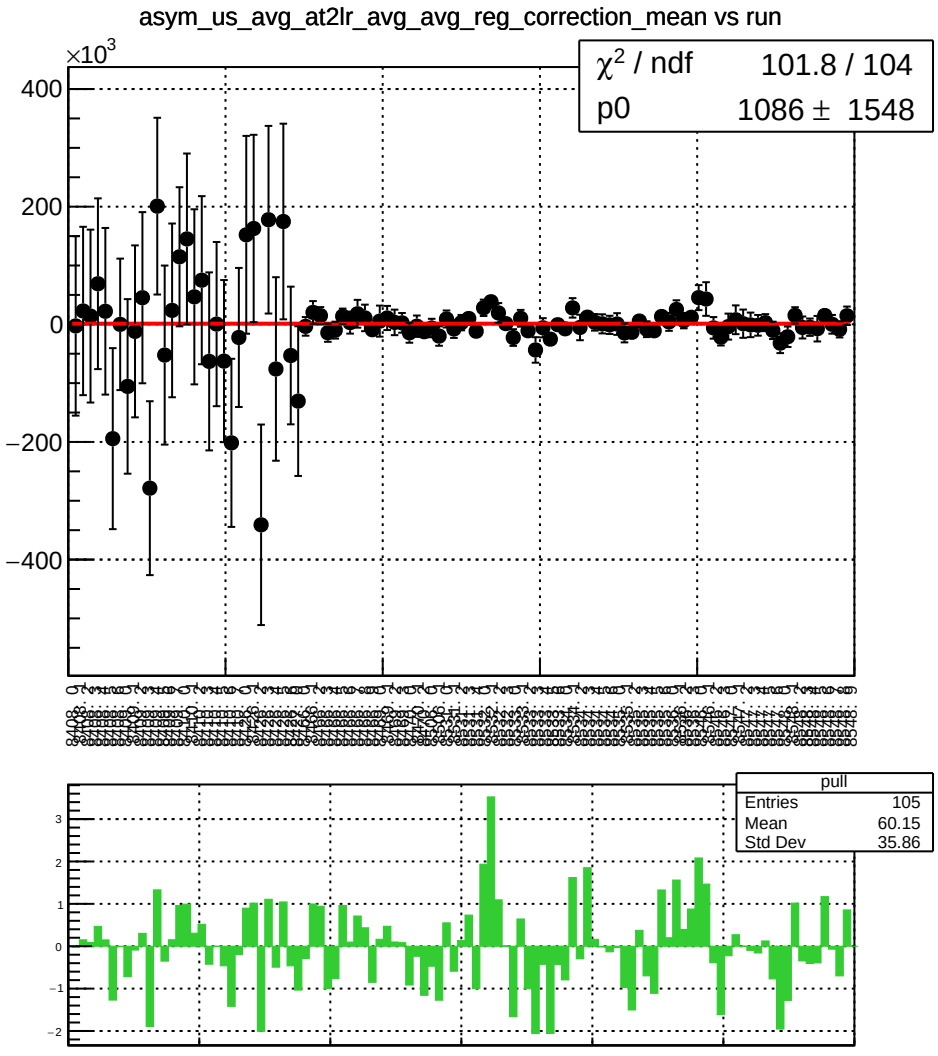

pull1D
Entries 105
Mean −0.007618
Std Dev 0.8771
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

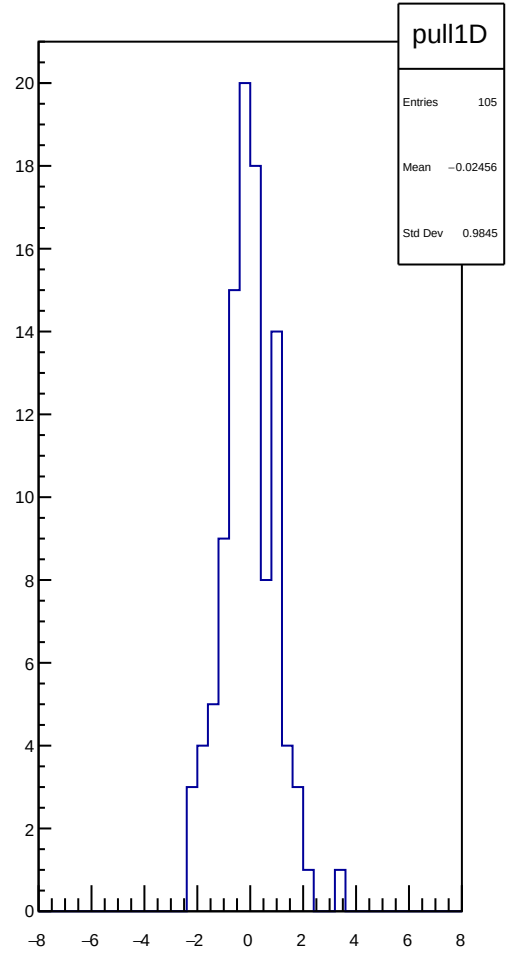

asym_us_avg_at1lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.64e+05 / 104
p0 2.095e−11 ± 1.85e−14
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

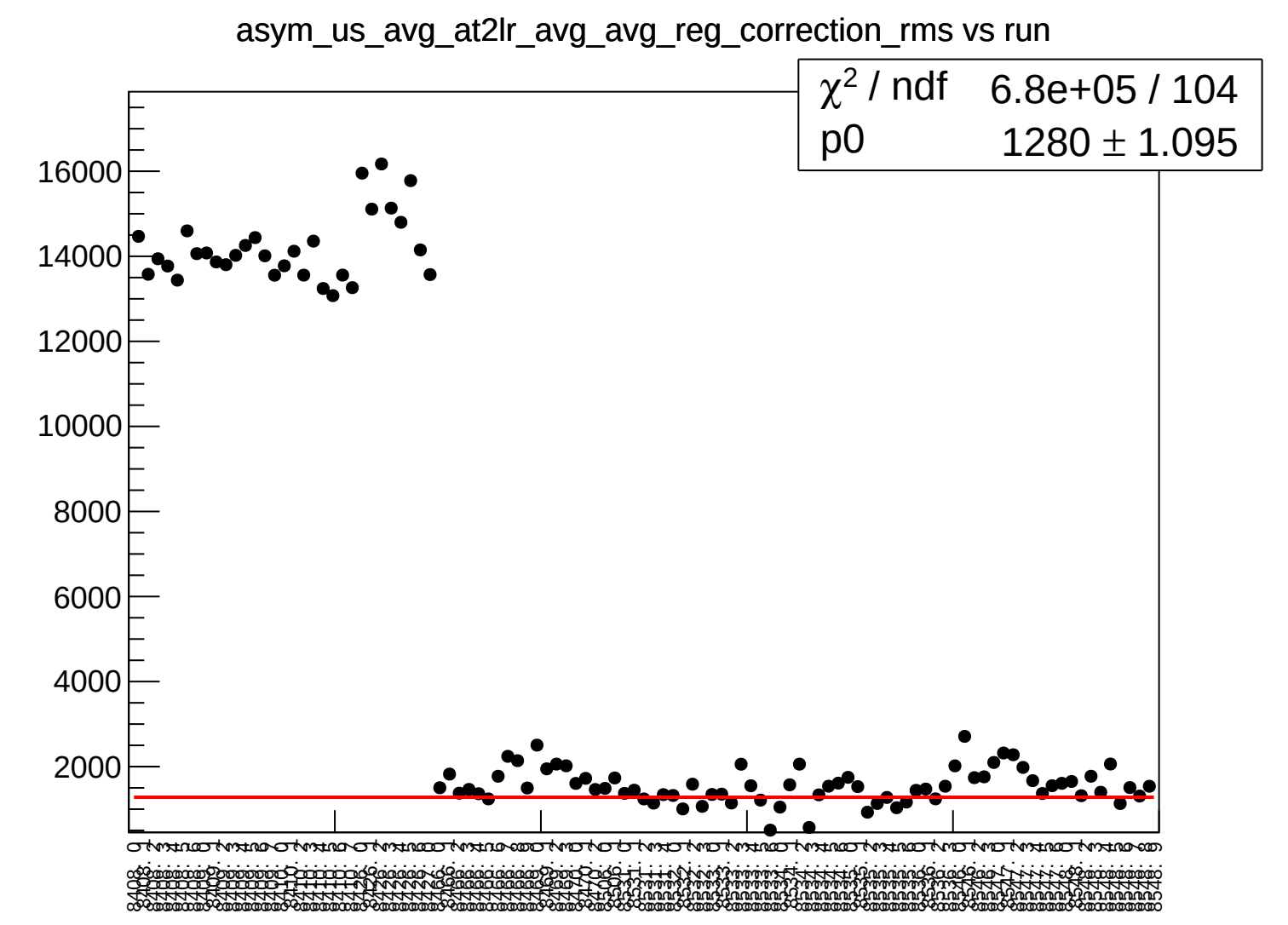

reg_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 101.2 / 104
p0 5172 ± 4035
1000
500
0
−500
−1000
pull
Entries 105
Mean 282.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

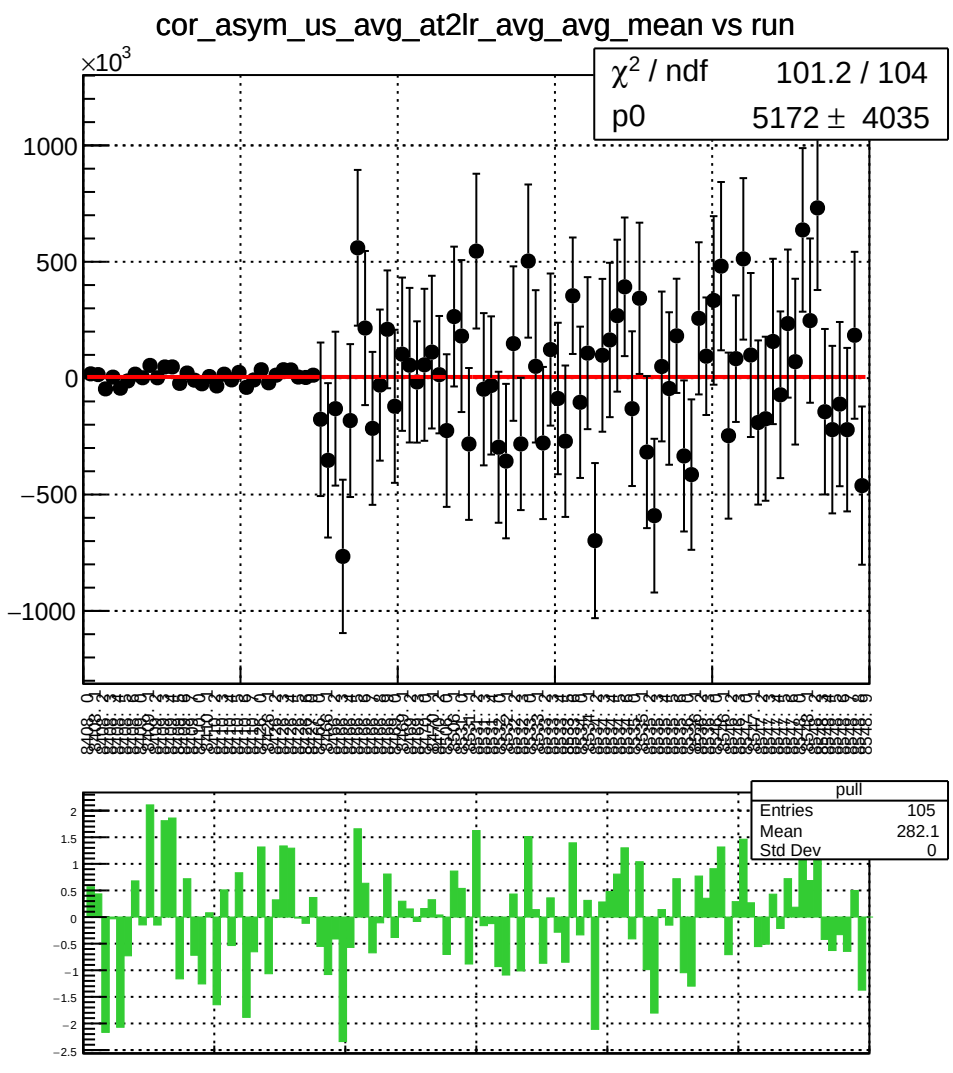

pull1D
Entries 105
Mean 0.009795
Std Dev 0.9819
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

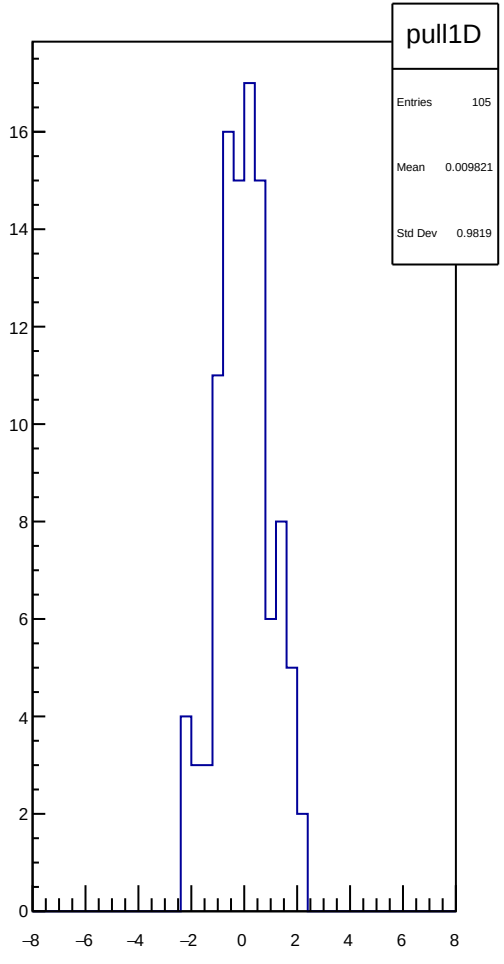

reg_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 1.233e+06 / 104
p0 2572 ± 2.853
35000
30000
25000
20000
15000
10000
5000

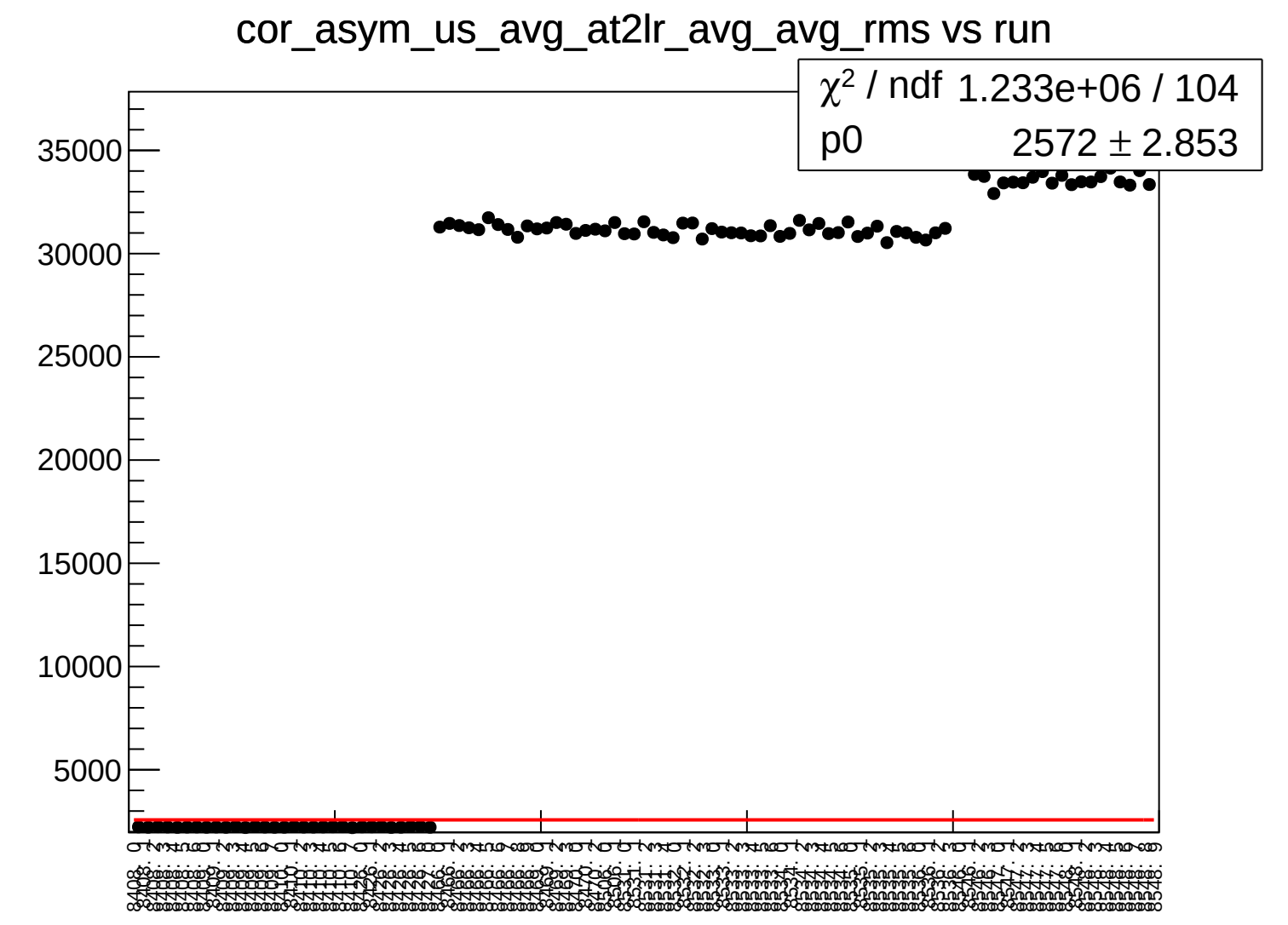

asym_us_avg_at2lr_avg_avg_reg_correction_mean vs run
×10^3
400
200
0
−200
−400
χ² / ndf 101.8 / 104
p0 1086 ± 1548
pull
Entries 105
Mean 60.15
Std Dev 35.86
3
2
1
0
−1
−2

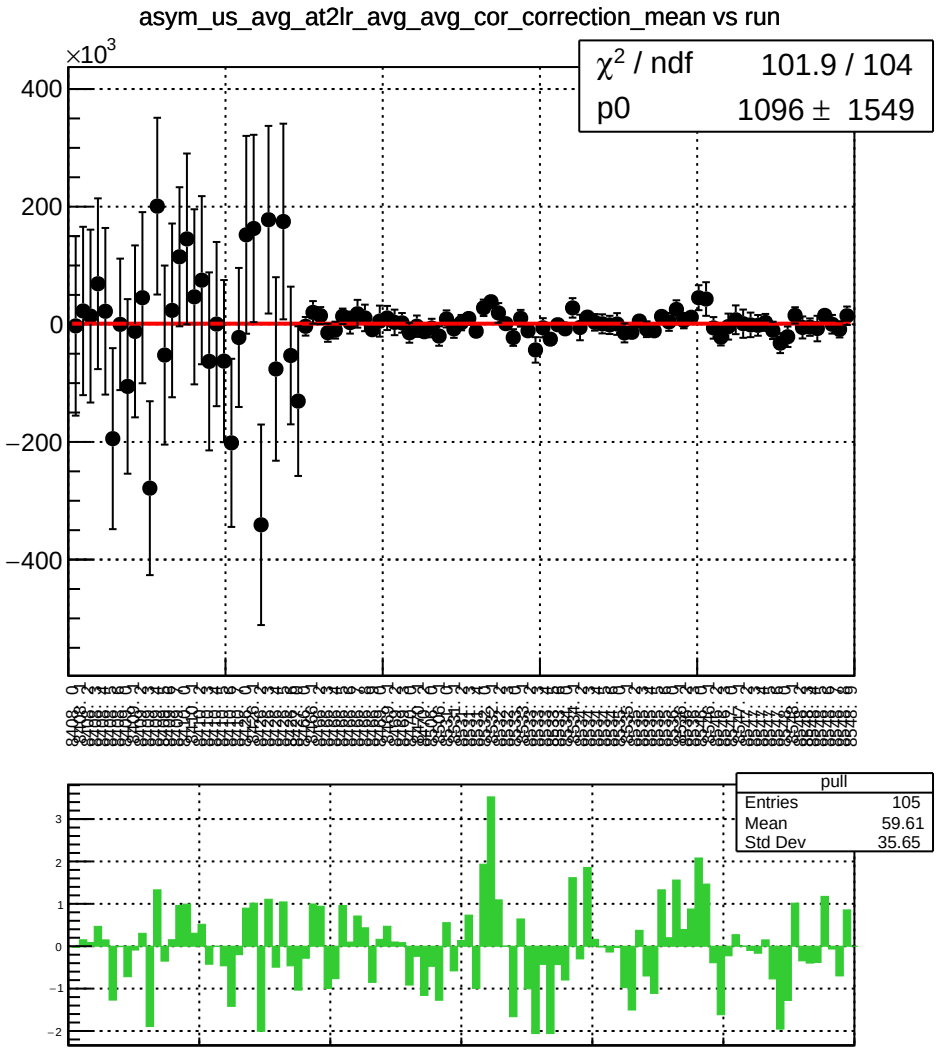

pull1D
Entries 105
Mean −0.02456
Std Dev 0.9845
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

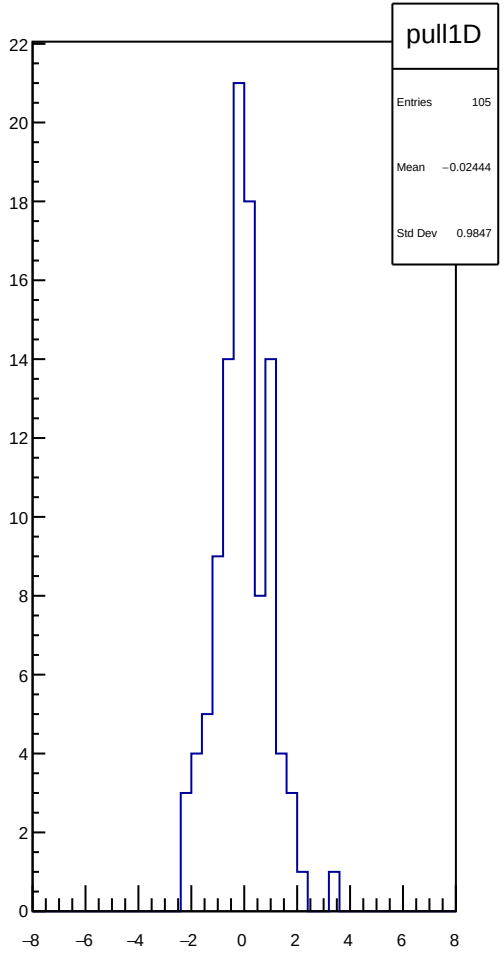

asym_us_avg_at2lr_avg_avg_reg_correction_rms vs run
χ² / ndf 6.8e+05 / 104
p0 1280 ± 1.095
16000
14000
12000
10000
8000
6000
4000
2000

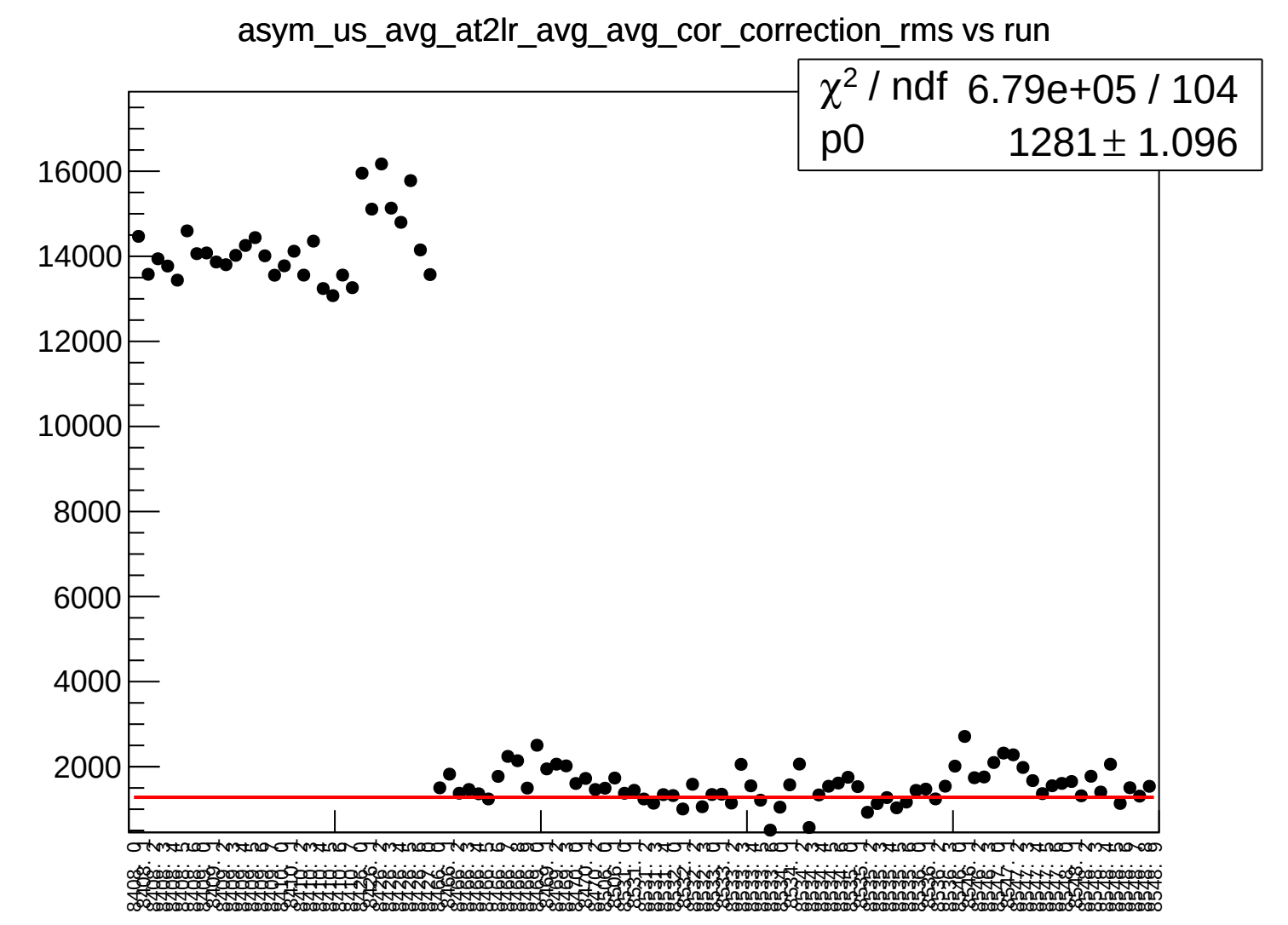

cor_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 101.2 / 104
p0 5172 ± 4035
1000
500
0
−500
−1000
pull
Entries 105
Mean 282.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

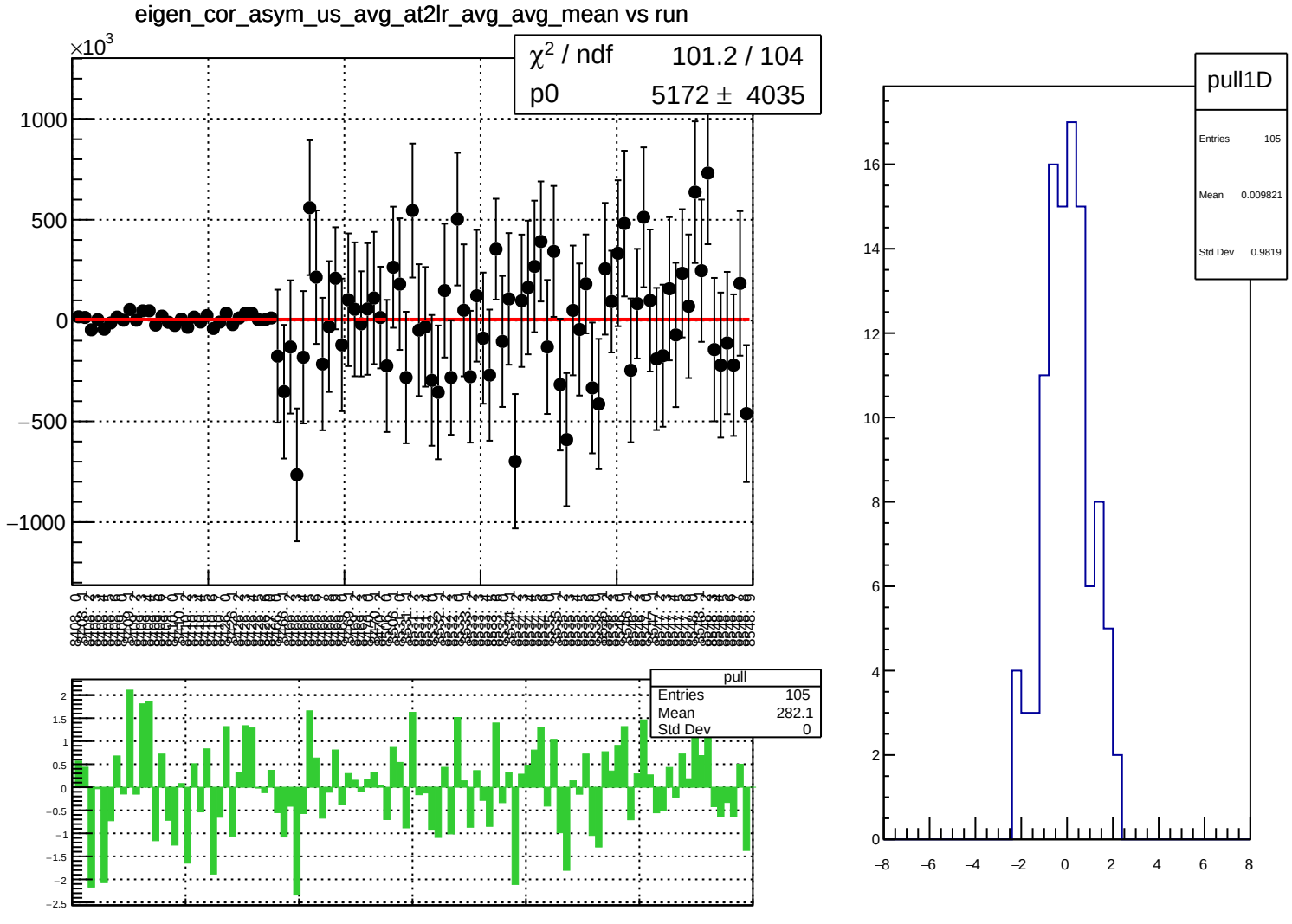

pull1D
Entries 105
Mean 0.009821
Std Dev 0.9819
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

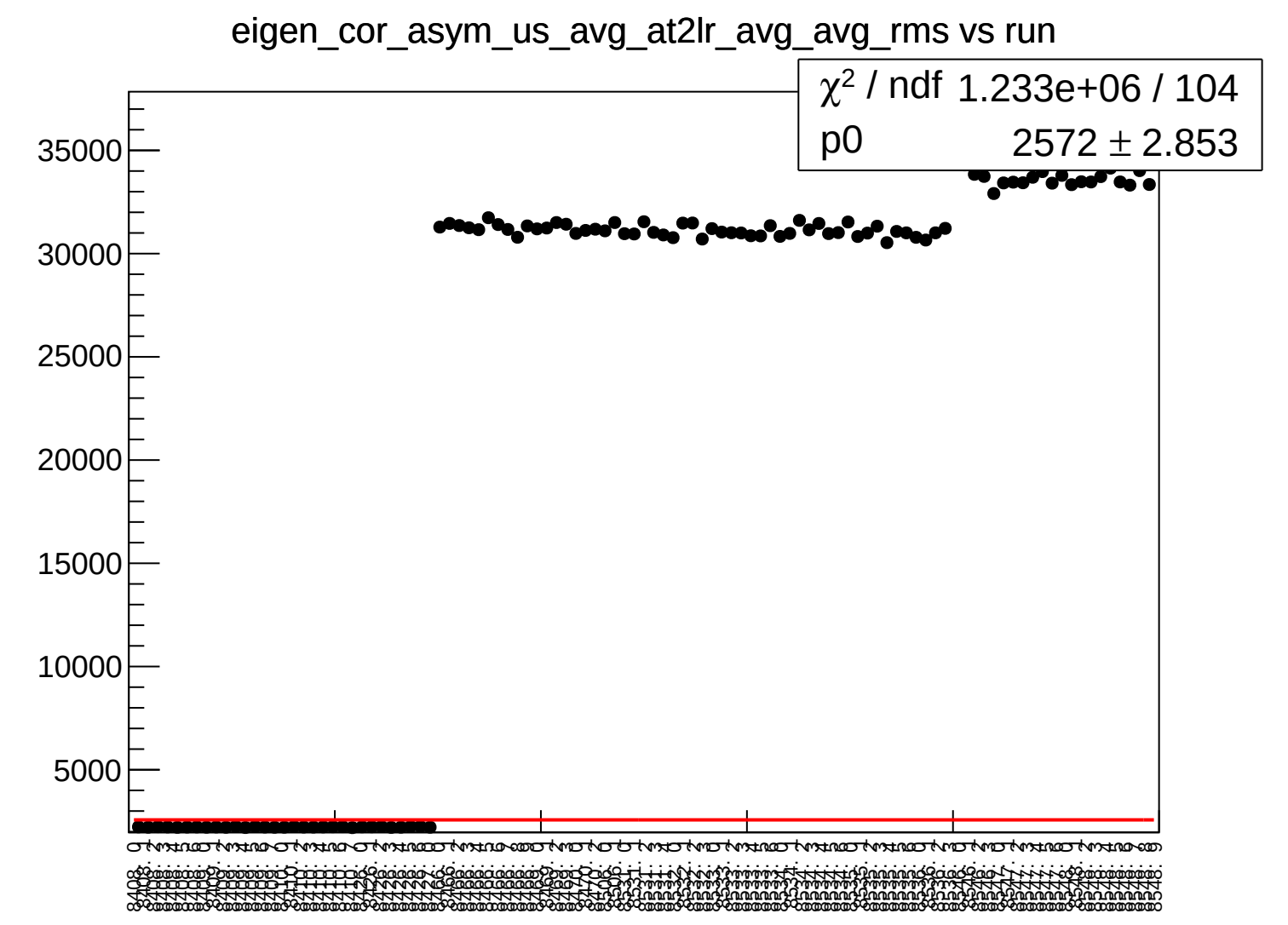

cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 1.233e+06 / 104
p0 2572 ± 2.853
35000
30000
25000
20000
15000
10000
5000

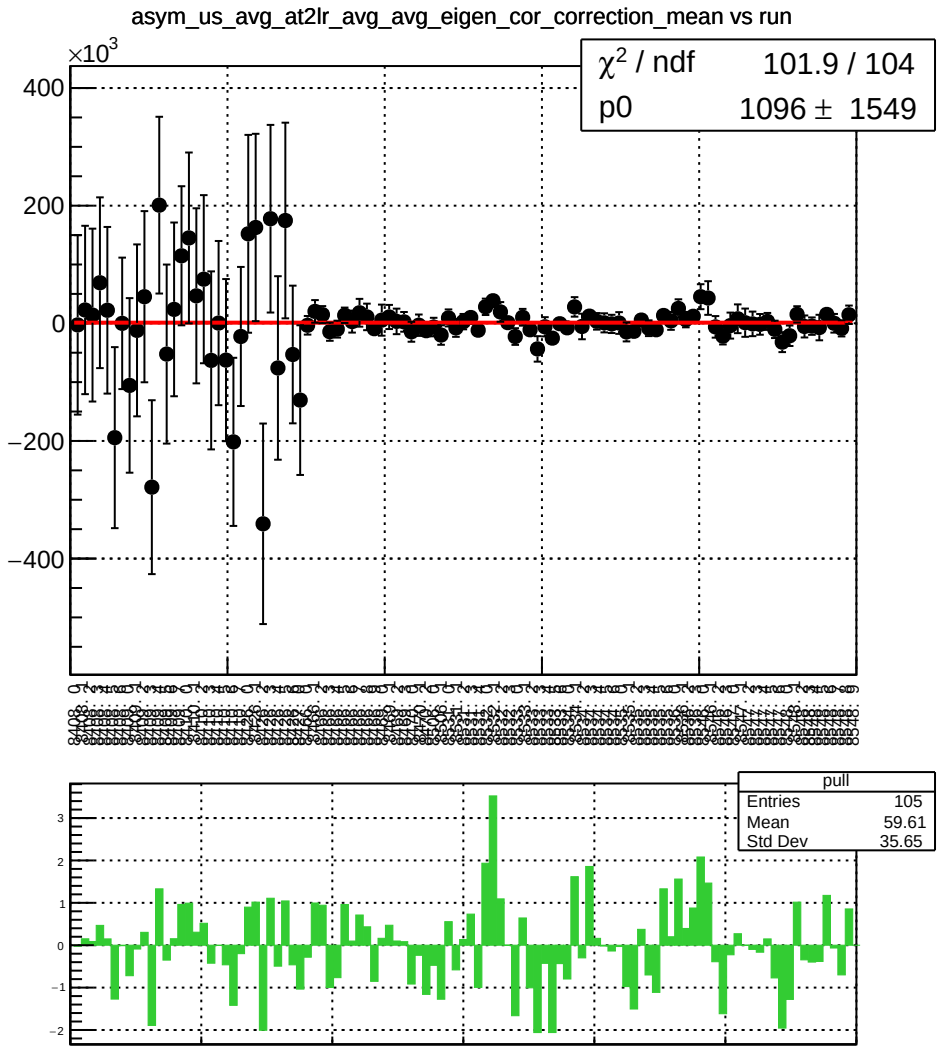

asym_us_avg_at2lr_avg_avg_cor_correction_mean vs run
×10^3
400
200
0
−200
−400
χ² / ndf 101.9 / 104
p0 1096 ± 1549
pull
Entries 105
Mean 59.61
Std Dev 35.65
3
2
1
0
−1
−2

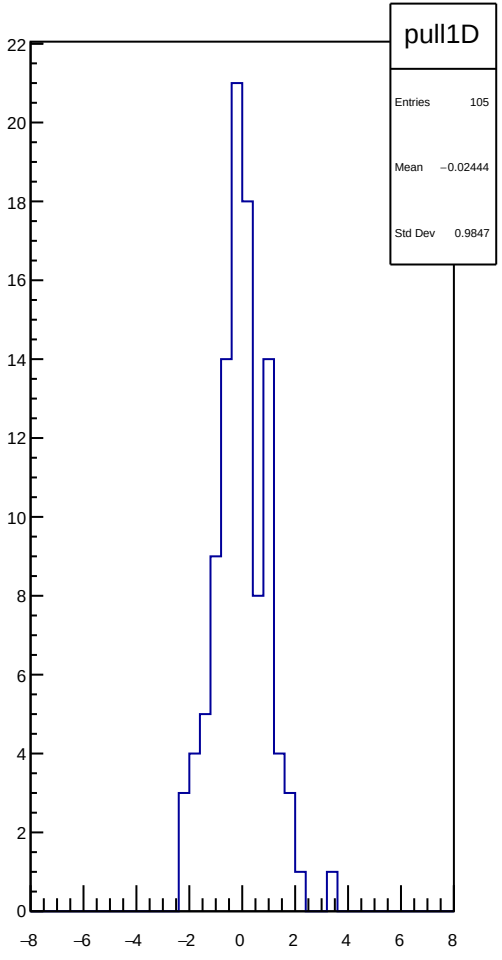

pull1D
Entries 105
Mean −0.02444
Std Dev 0.9847
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

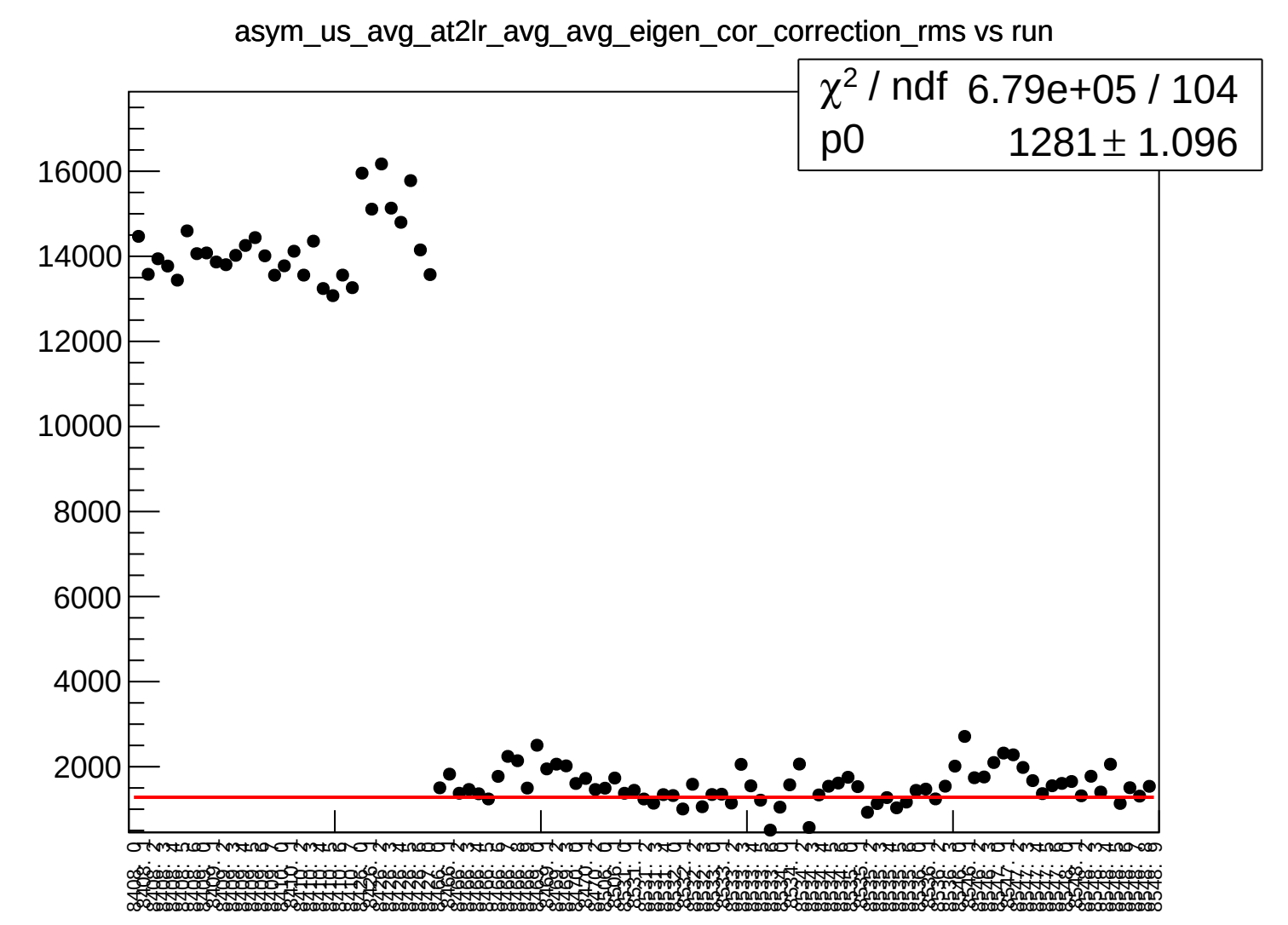

asym_us_avg_at2lr_avg_avg_cor_correction_rms vs run
χ^2 / ndf 6.79e+05 / 104
p0 1281 ± 1.096
16000
14000
12000
10000
8000
6000
4000
2000

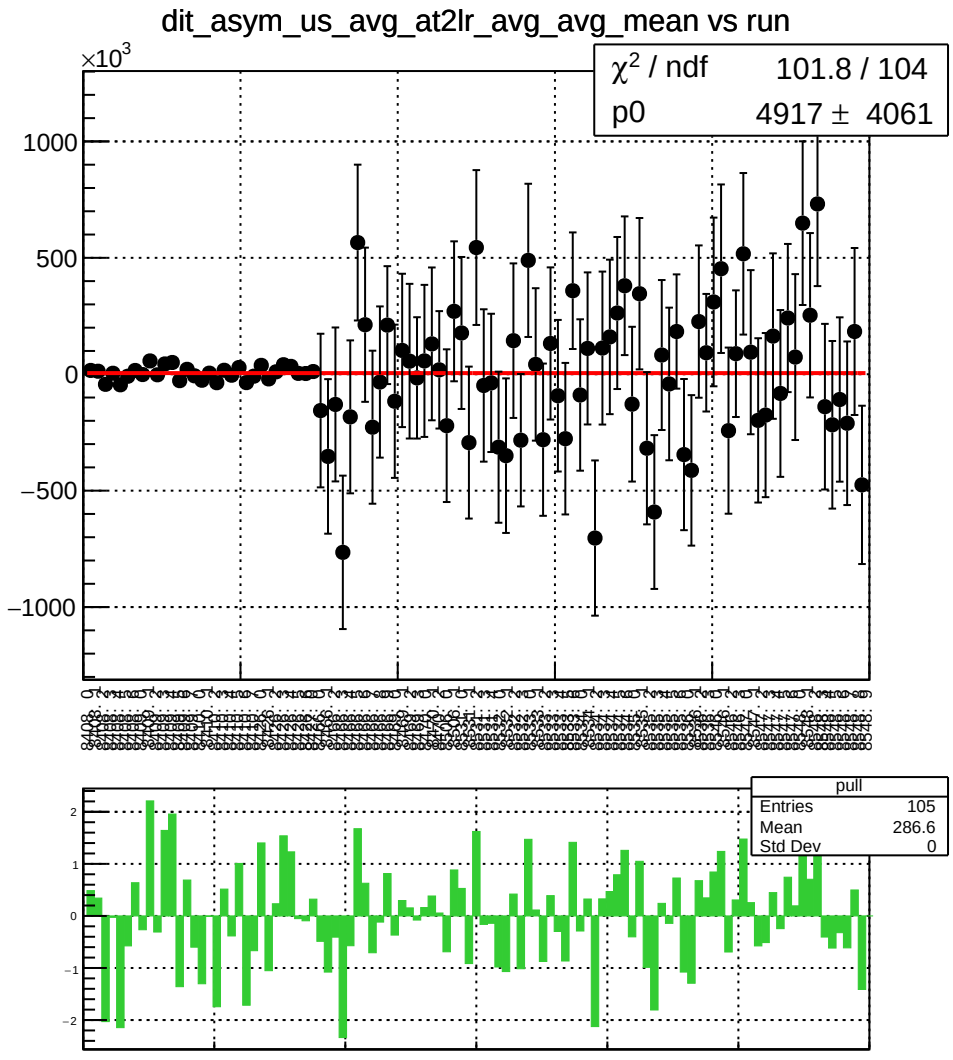

eigen_cor_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 101.2 / 104
p0 5172 ± 4035
1000
500
0
−500
−1000
pull
Entries 105
Mean 282.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 105
Mean 0.009821
Std Dev 0.9819
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

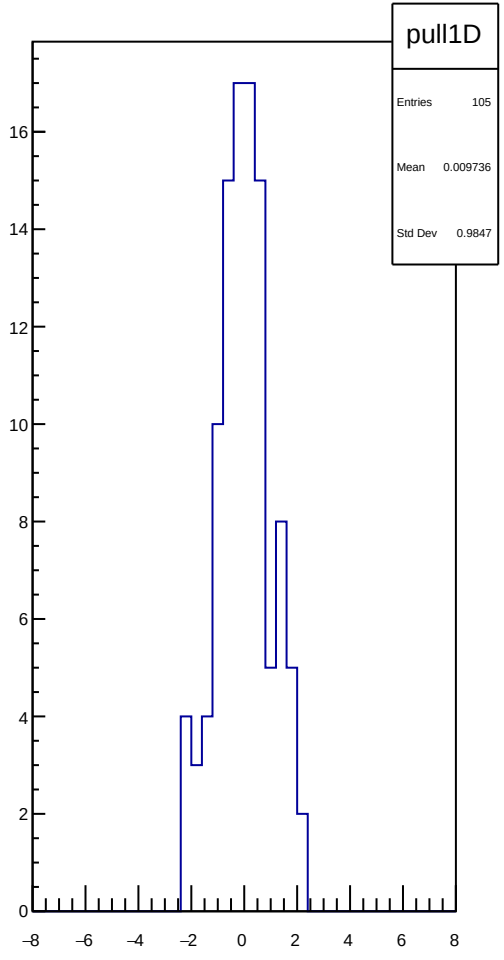

eigen_cor_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 1.233e+06 / 104
p0 2572 ± 2.853
35000
30000
25000
20000
15000
10000
5000

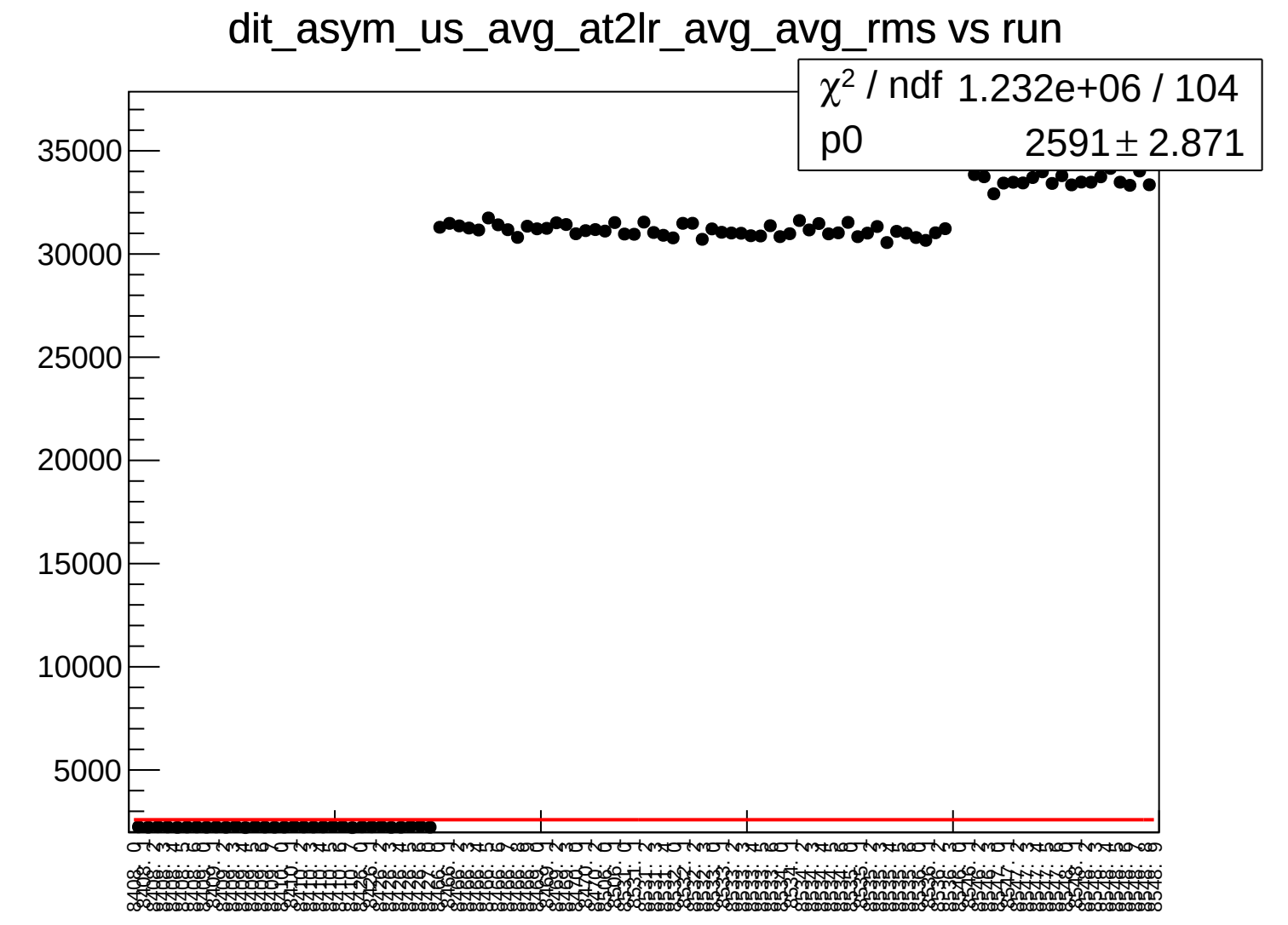

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_mean vs run
×10^3
400
200
0
−200
−400
χ² / ndf 101.9 / 104
p0 1096 ± 1549
pull
Entries 105
Mean 59.61
Std Dev 35.65
3
2
1
0
−1
−2

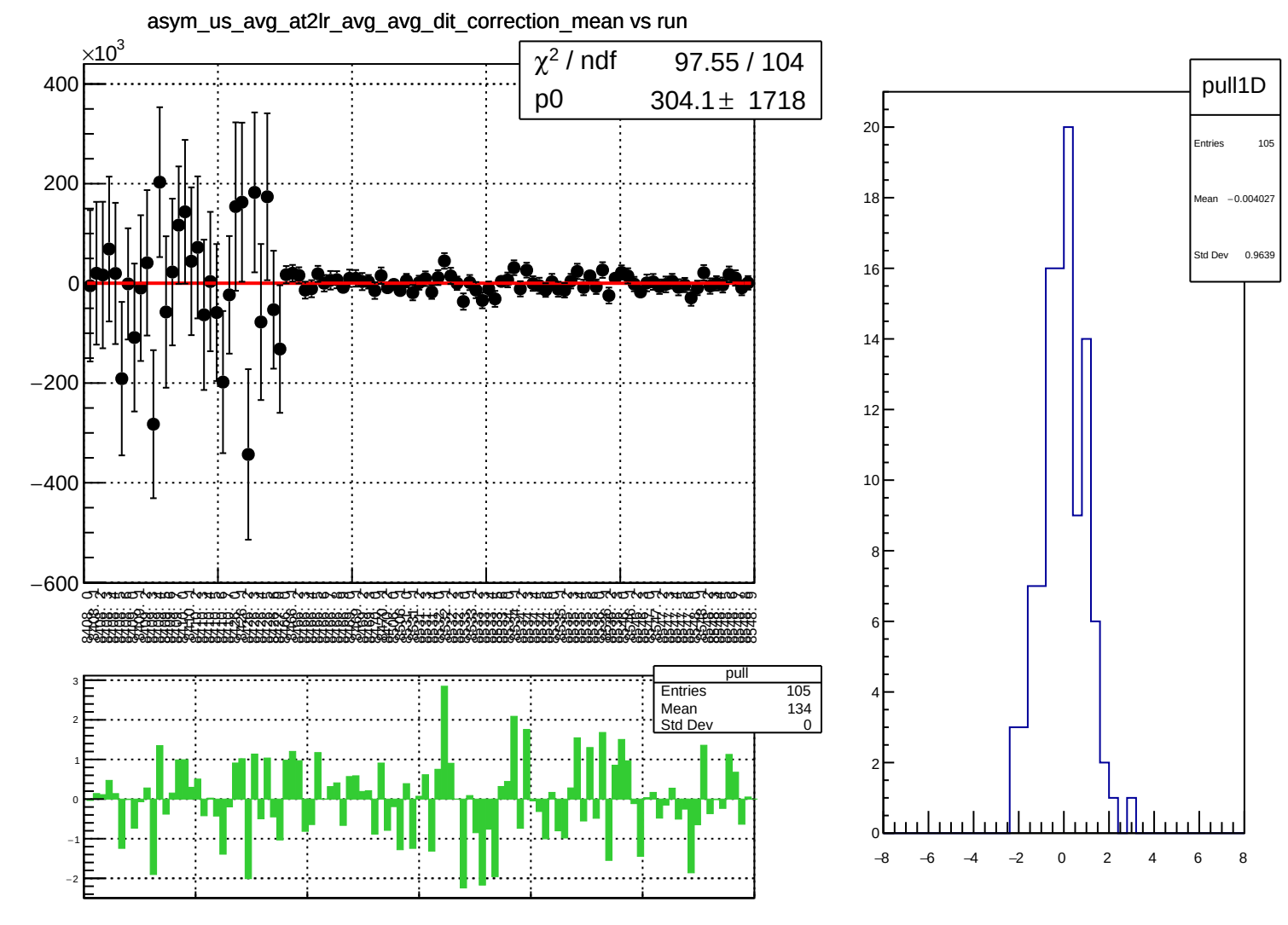

pull1D
Entries 105
Mean −0.02444
Std Dev 0.9847
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

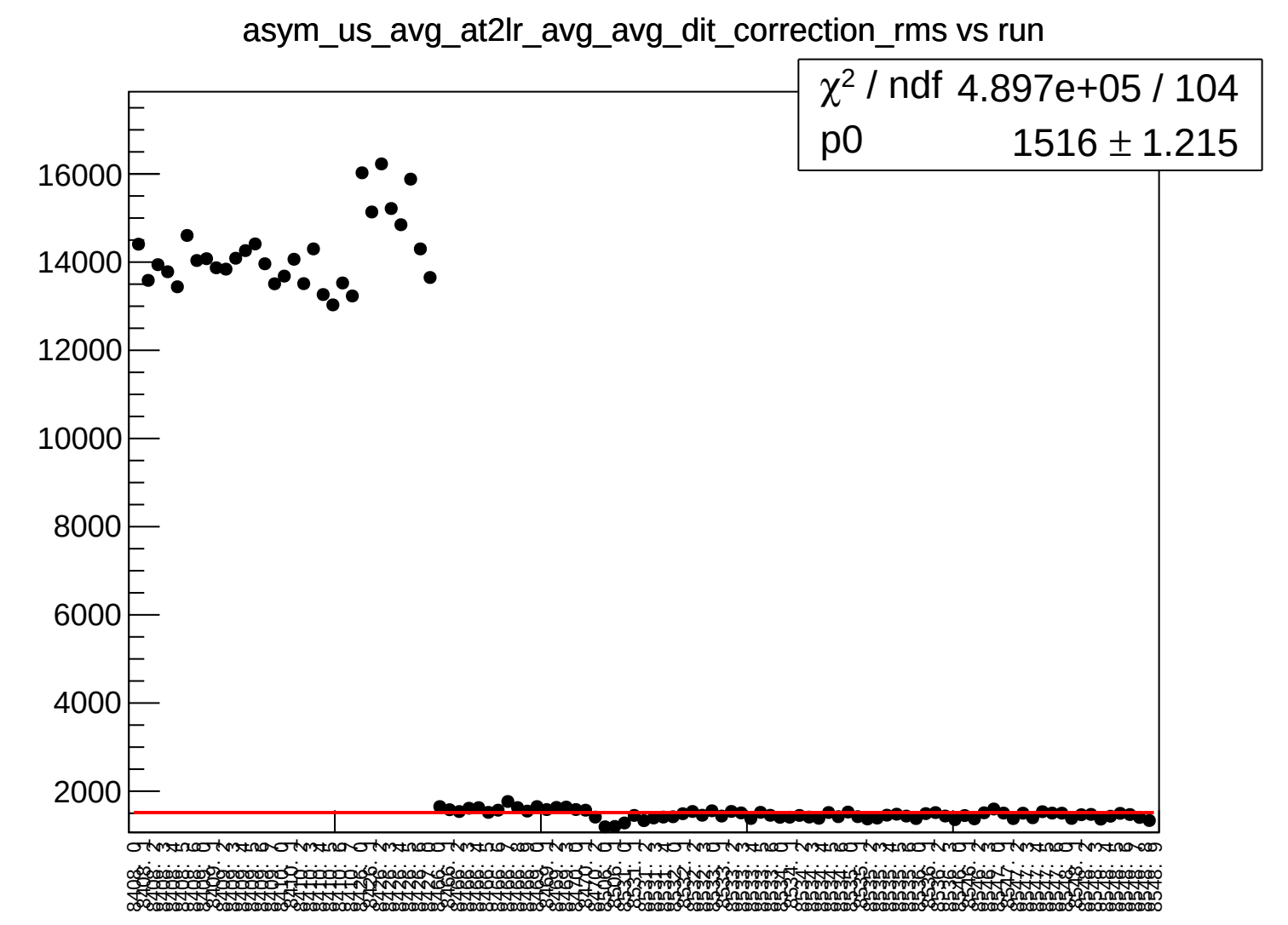

asym_us_avg_at2lr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 6.79e+05 / 104
p0 1281 ± 1.096
16000
14000
12000
10000
8000
6000
4000
2000

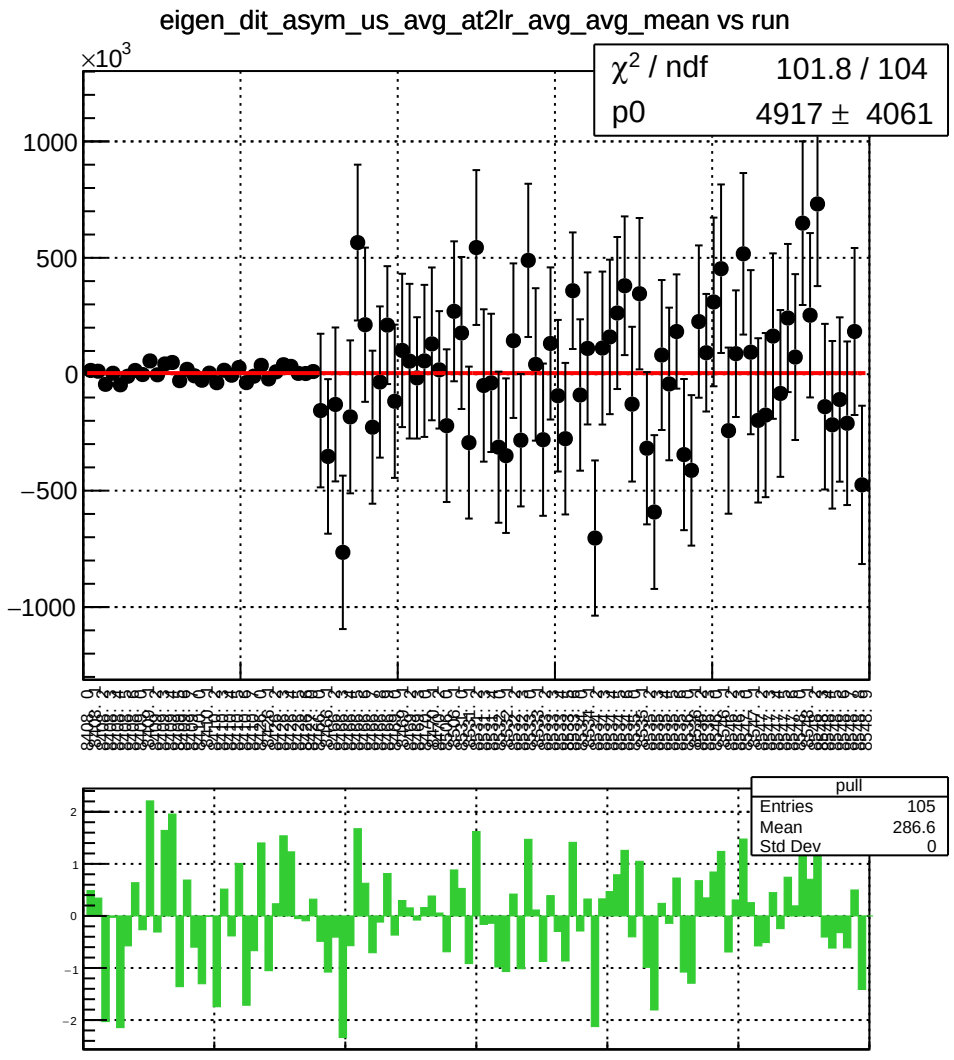

dit_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 101.8 / 104
p0 4917 ± 4061
1000
500
0
−500
−1000
pull
Entries 105
Mean 286.6
Std Dev 0
2
1
0
−1
−2

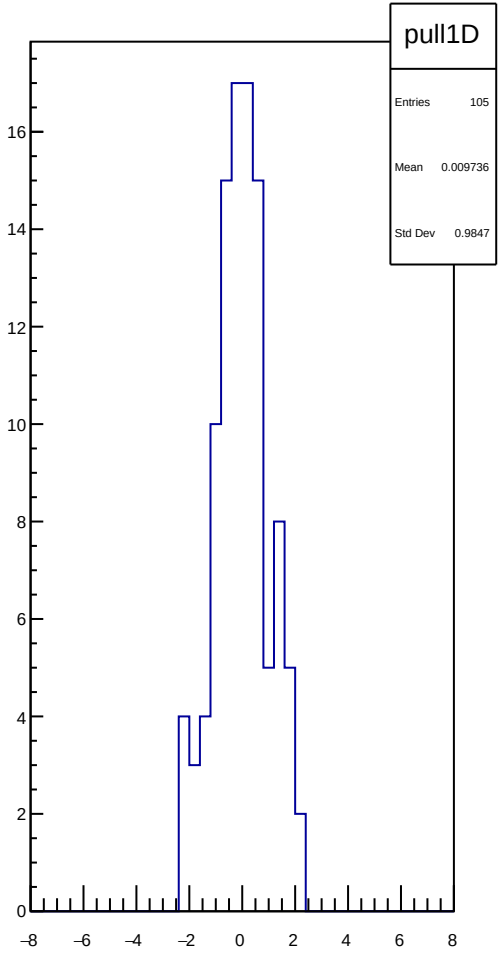

pull1D
Entries 105
Mean 0.009736
Std Dev 0.9847
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

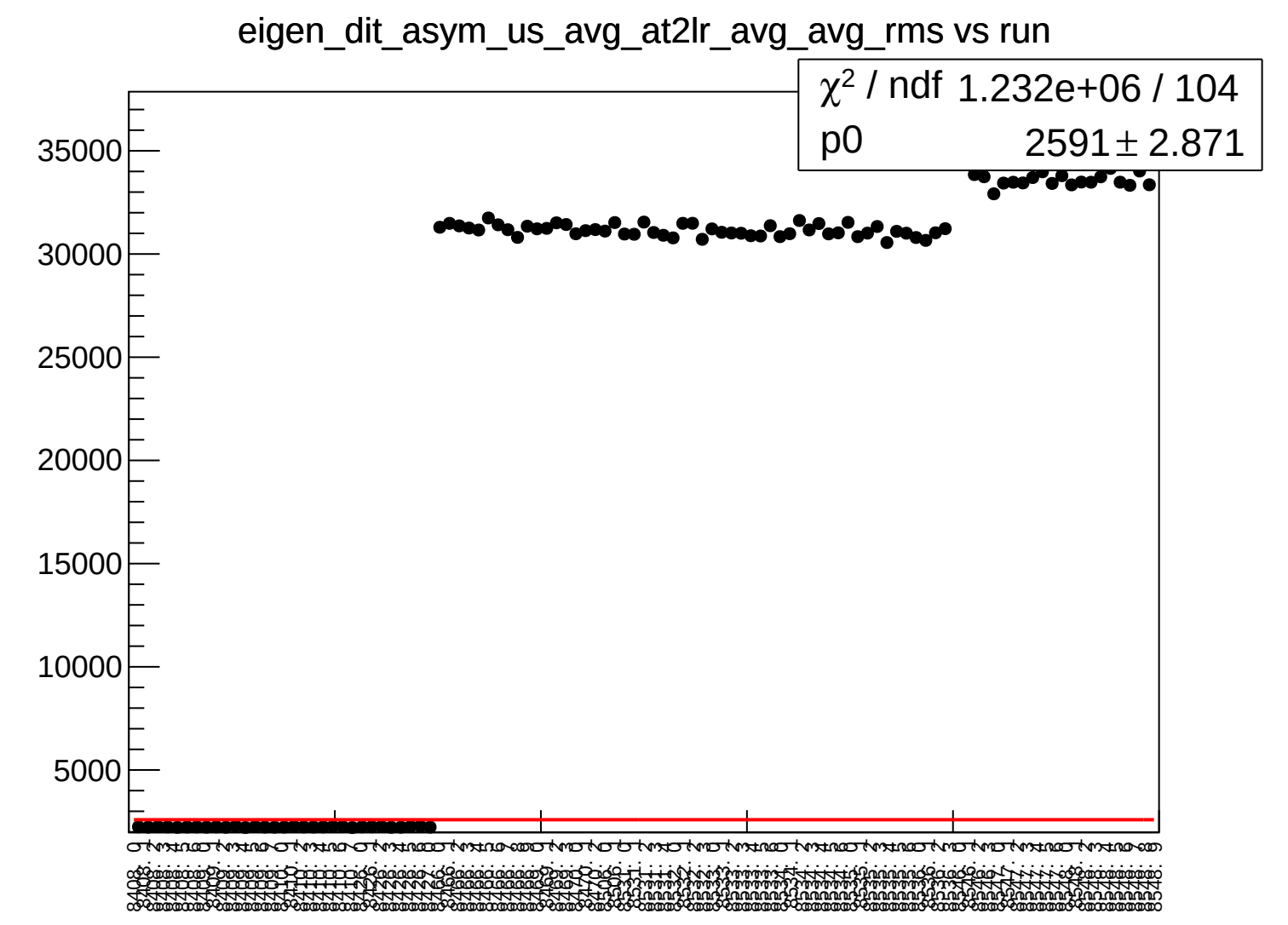

dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 1.232e+06 / 104
p0 2591 ± 2.871
35000
30000
25000
20000
15000
10000
5000

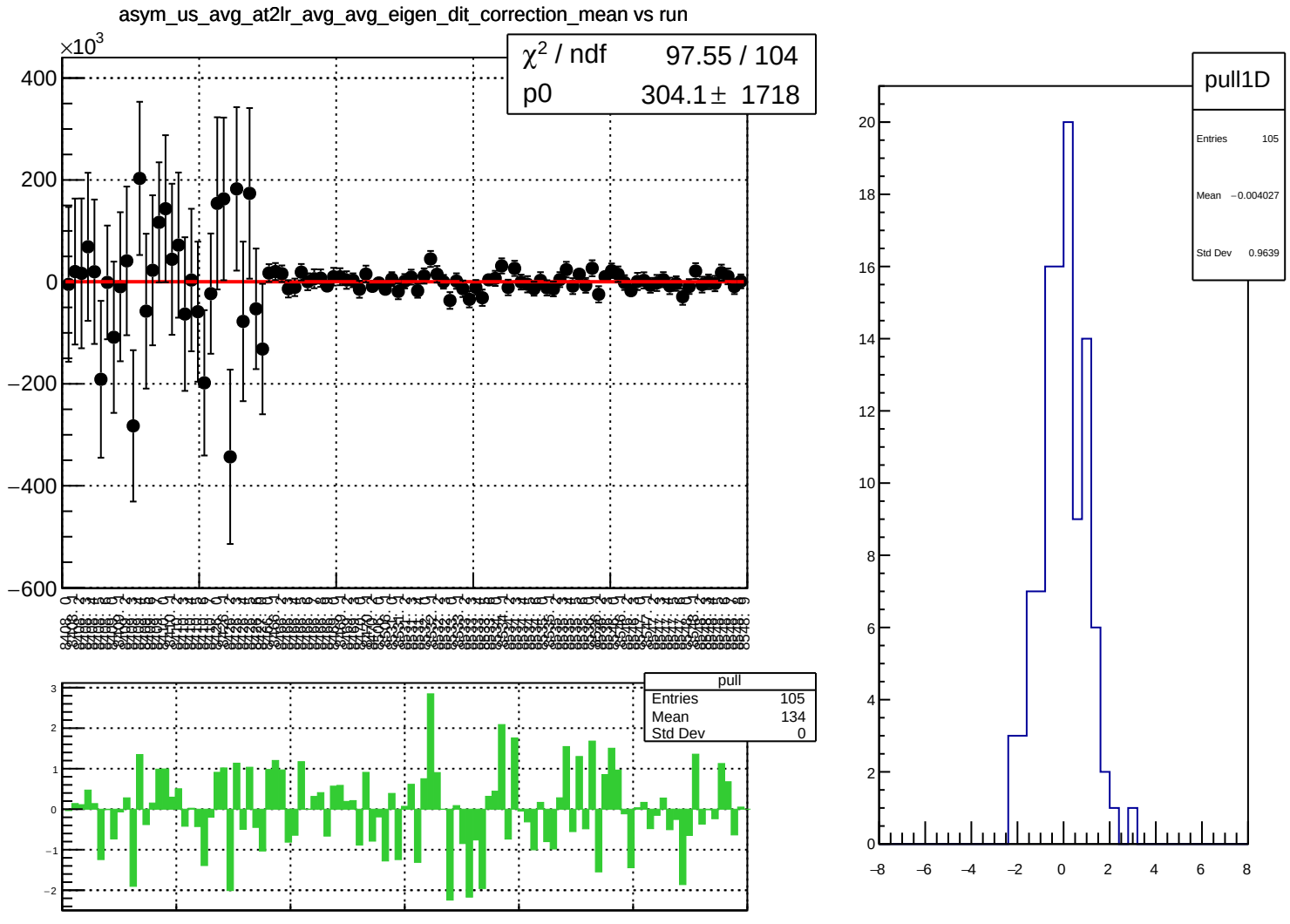

asym_us_avg_at2lr_avg_avg_dit_correction_mean vs run
×10^3
400
200
0
−200
−400
−600
χ² / ndf 97.55 / 104
p0 304.1± 1718
pull
Entries 105
Mean 134
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.004027
Std Dev 0.9639
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

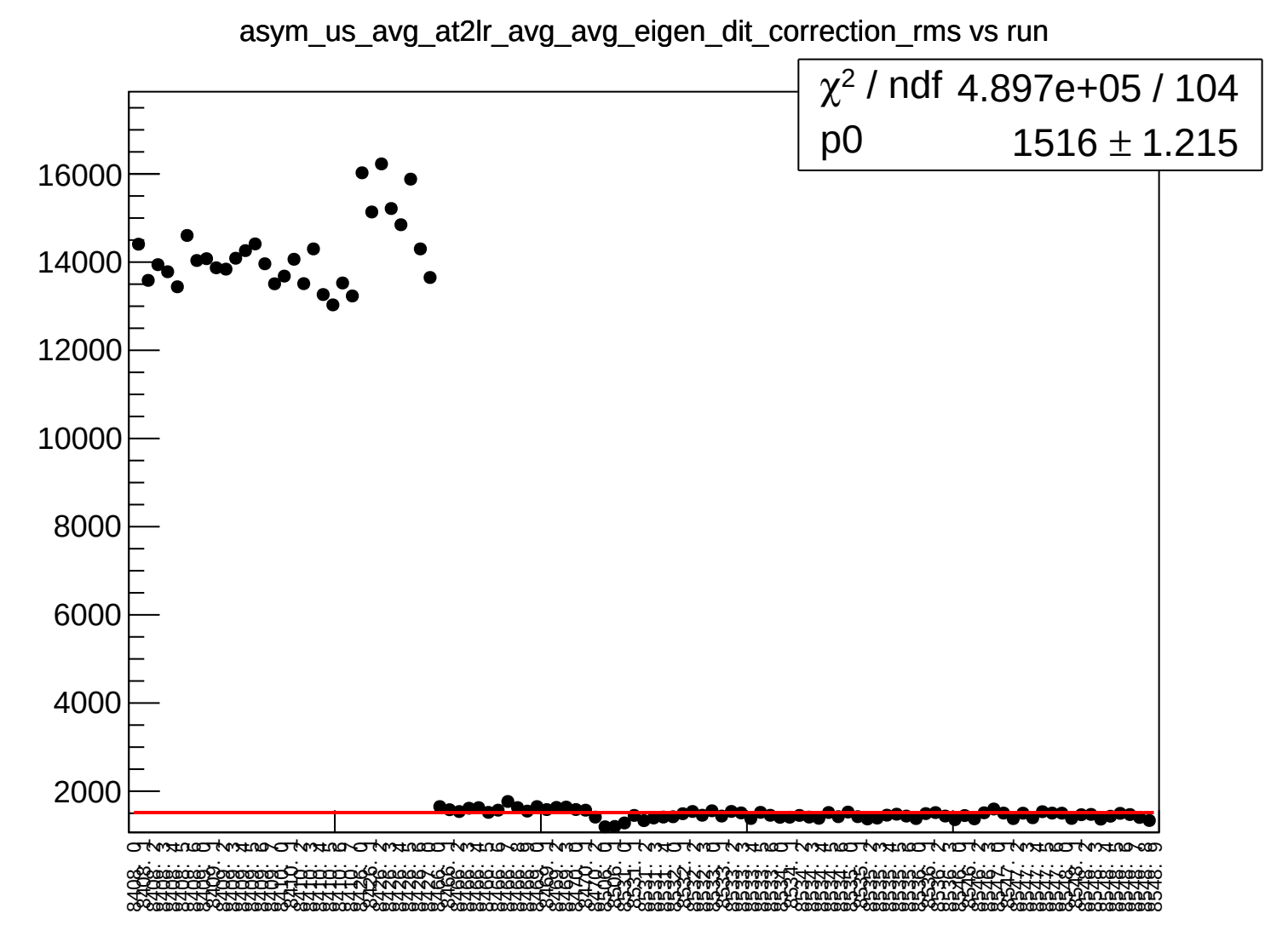

asym_us_avg_at2lr_avg_avg_dit_correction_rms vs run
χ² / ndf 4.897e+05 / 104
p0 1516 ± 1.215
16000
14000
12000
10000
8000
6000
4000
2000

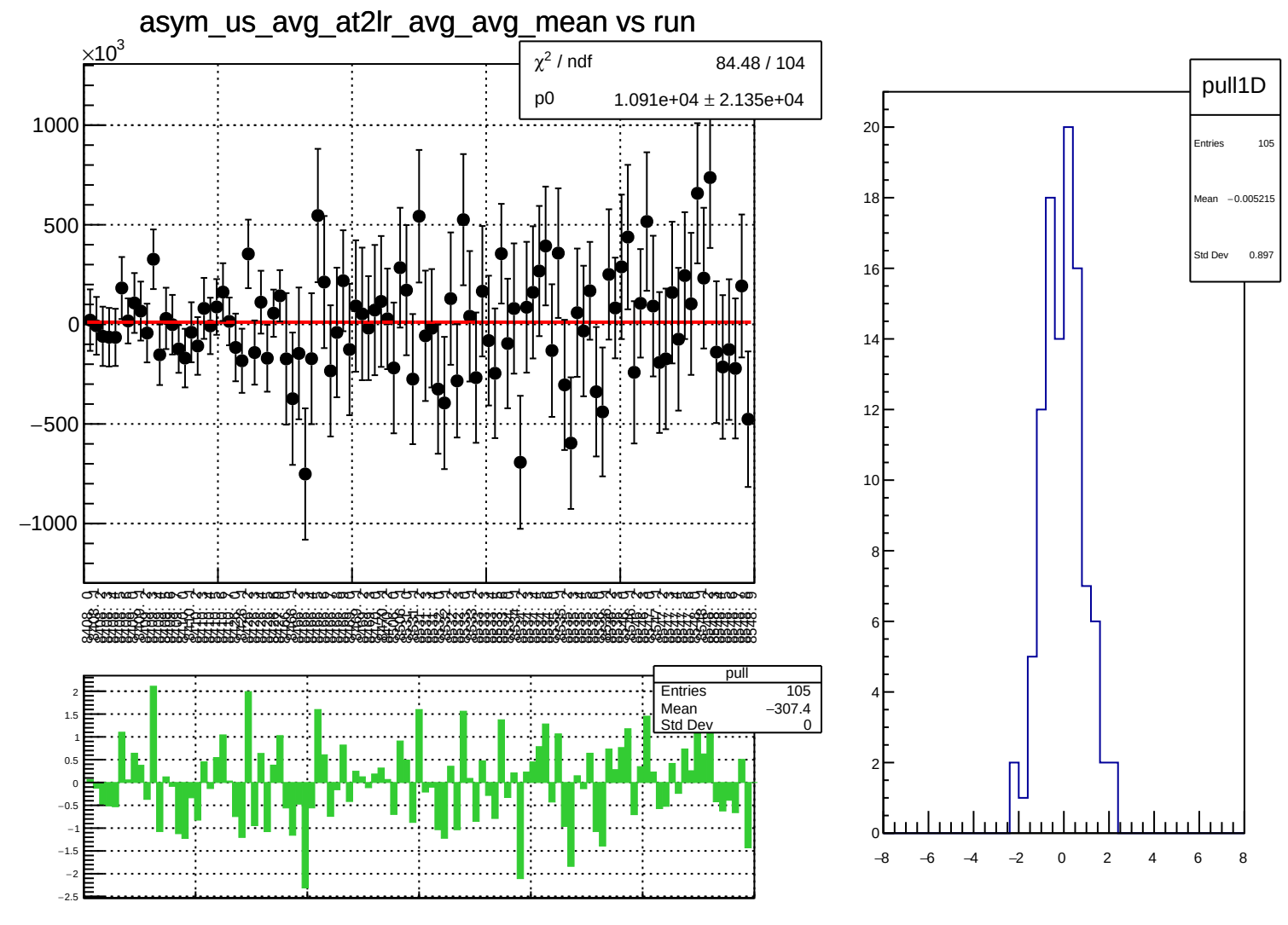

eigen_dit_asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ^2 / ndf 101.8 / 104
p0 4917 ± 4061
1000
500
0
−500
−1000
pull
Entries 105
Mean 286.6
Std Dev 0
2
1
0
−1
−2

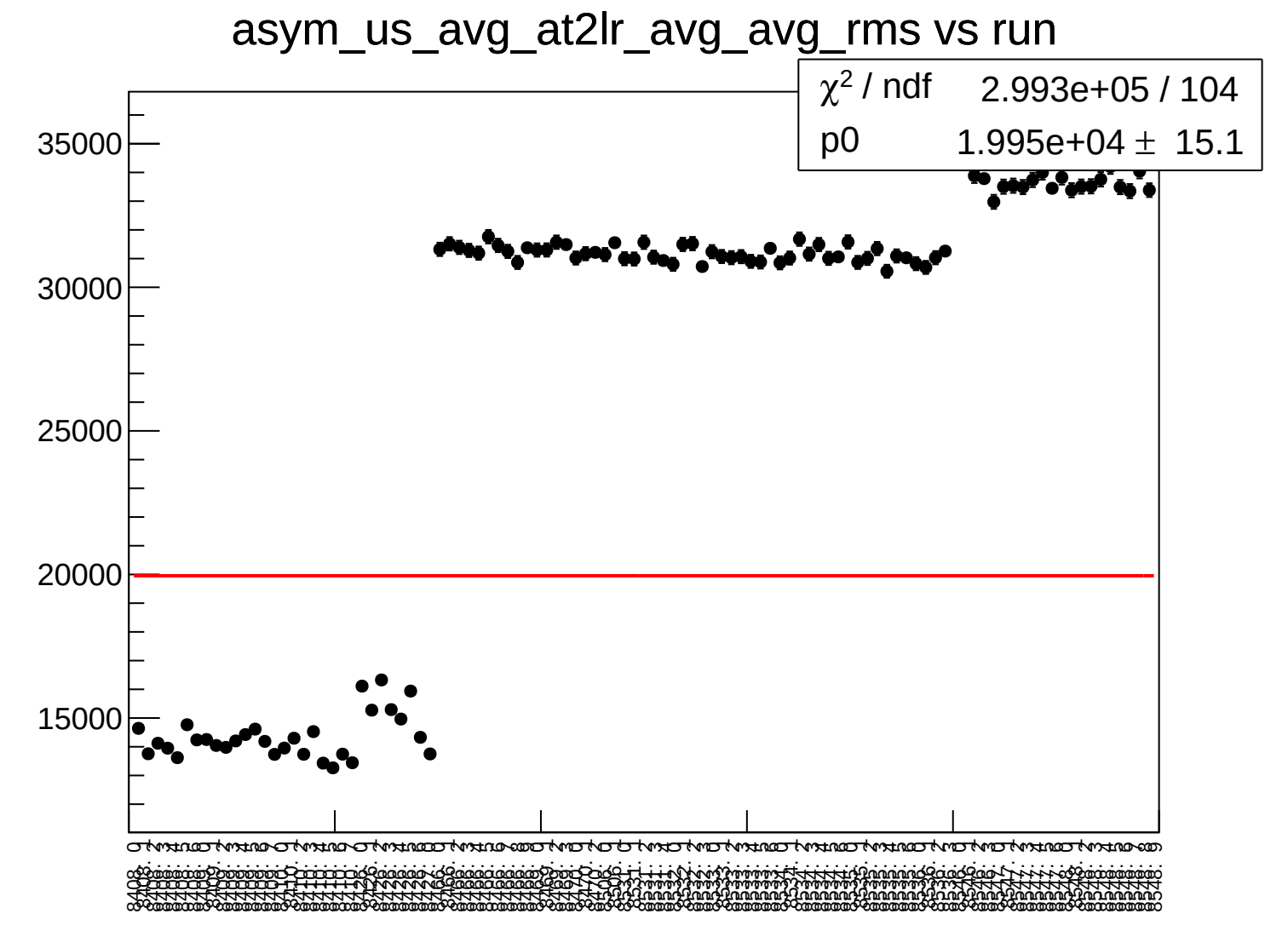

pull1D
Entries 105
Mean 0.009736
Std Dev 0.9847
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

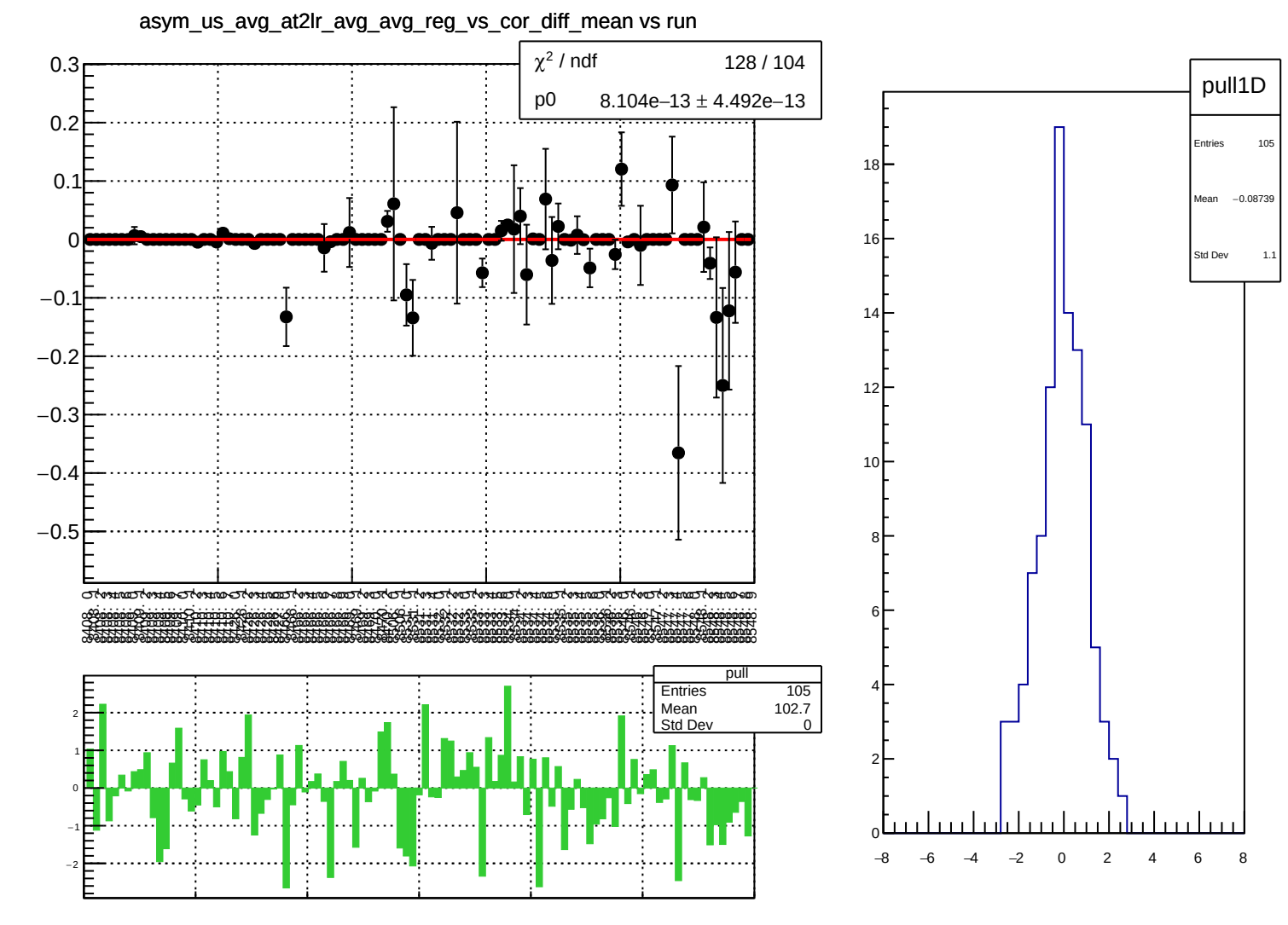

eigen_dit_asym_us_avg_at2lr_avg_avg_rms vs run
χ^2 / ndf 1.232e+06 / 104
p0 2591 ± 2.871
35000
30000
25000
20000
15000
10000
5000

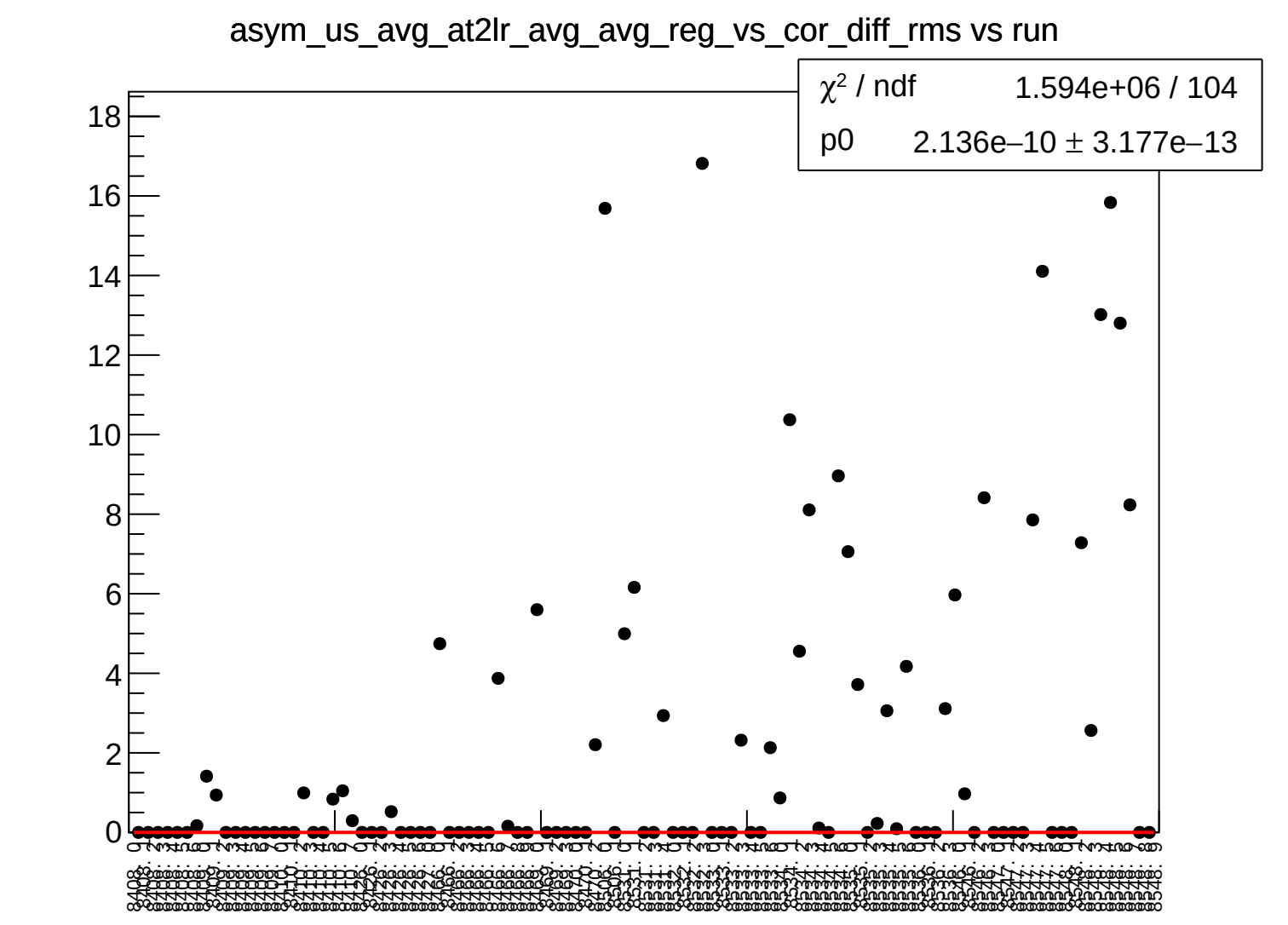

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 97.55 / 104
p0 304.1± 1718
400
200
0
−200
−400
−600
pull
Entries 105
Mean 134
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.004027
Std Dev 0.9639
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

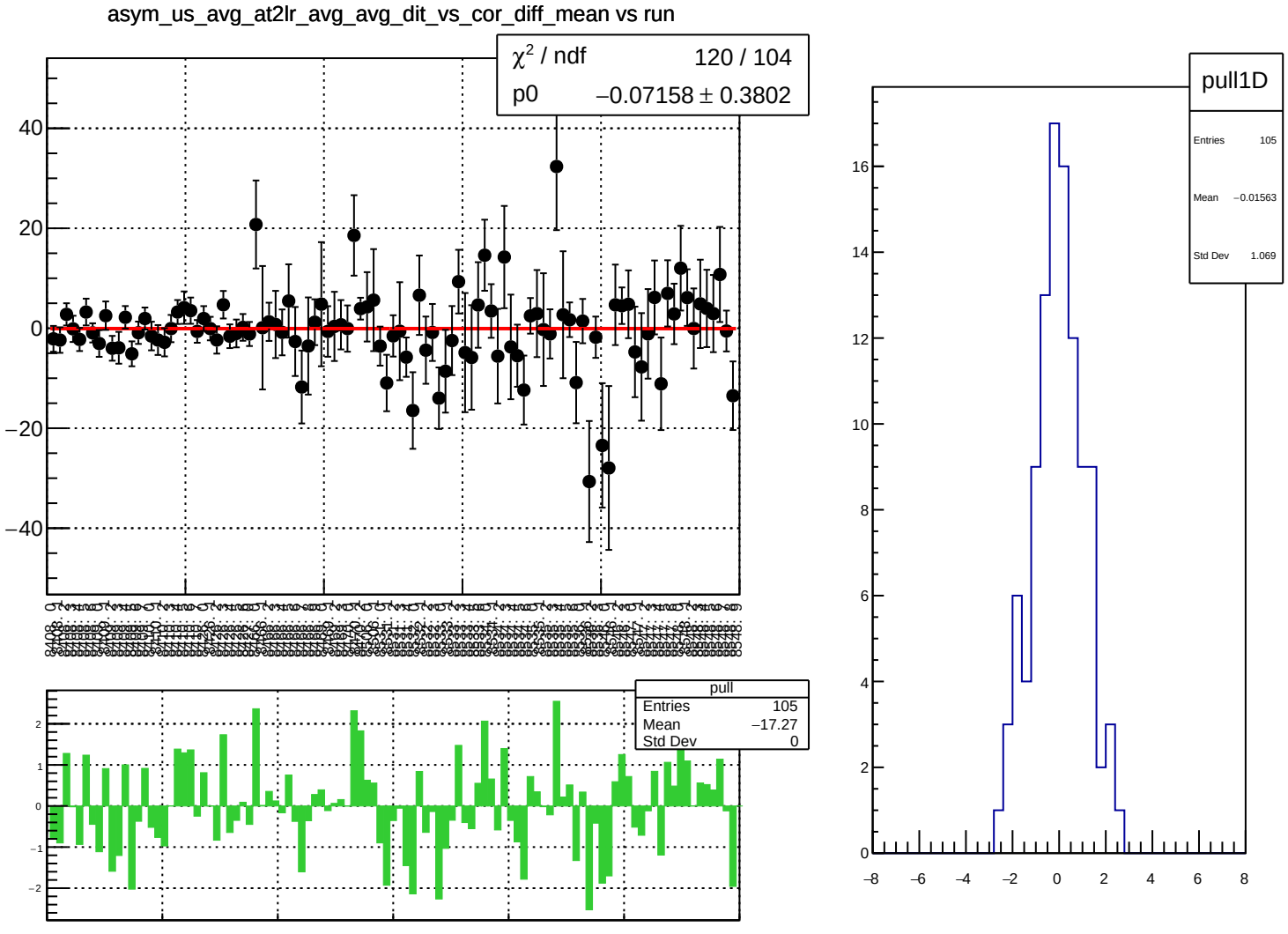

asym_us_avg_at2lr_avg_avg_eigen_dit_correction_rms vs run
χ² / ndf 4.897e+05 / 104
p0 1516 ± 1.215
16000
14000
12000
10000
8000
6000
4000
2000

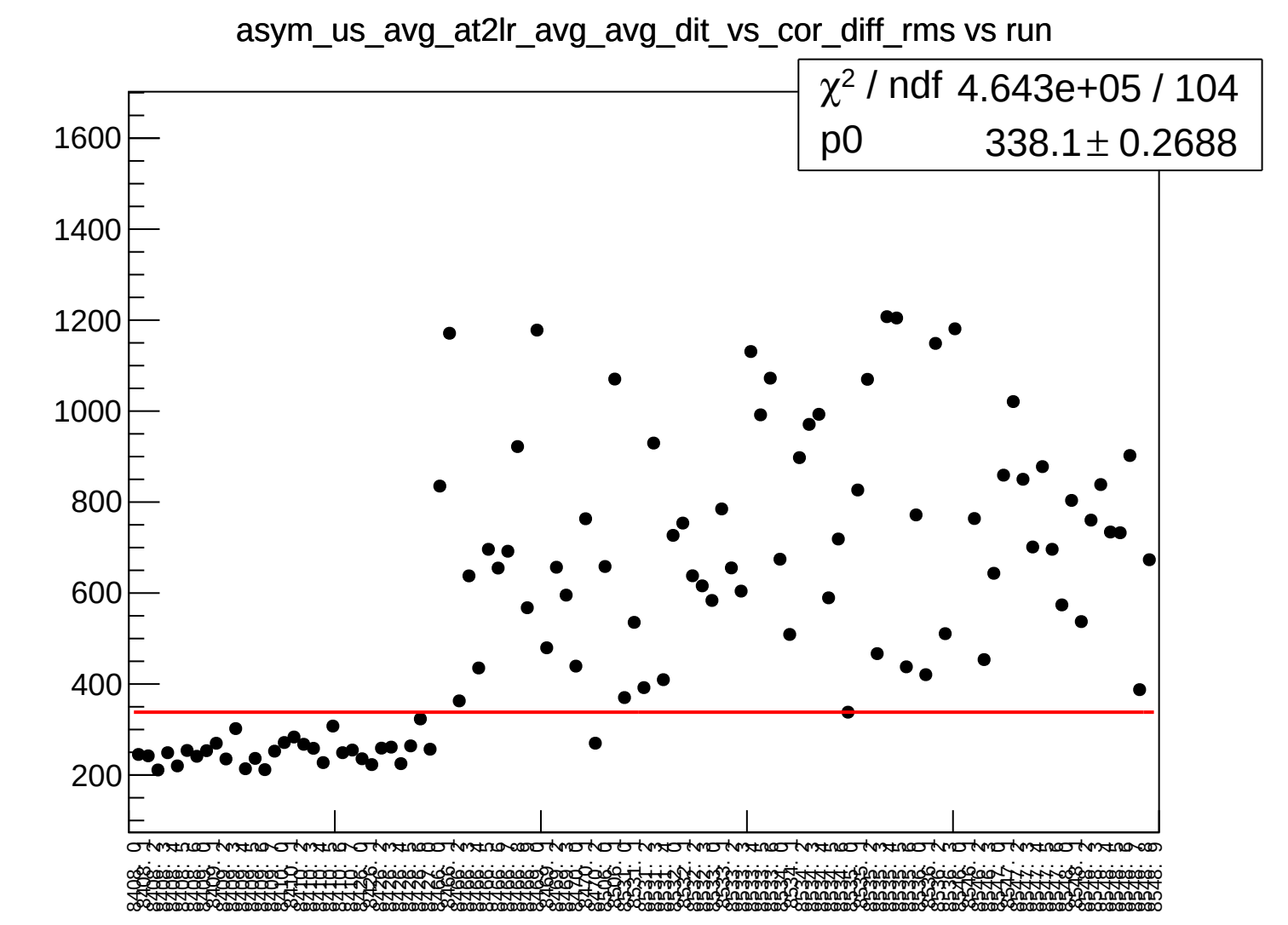

asym_us_avg_at2lr_avg_avg_mean vs run
×10^3
χ² / ndf 84.48 / 104
p0 1.091e+04 ± 2.135e+04
1000
500
0
−500
−1000
pull
Entries 105
Mean −307.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 105
Mean −0.005215
Std Dev 0.897
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

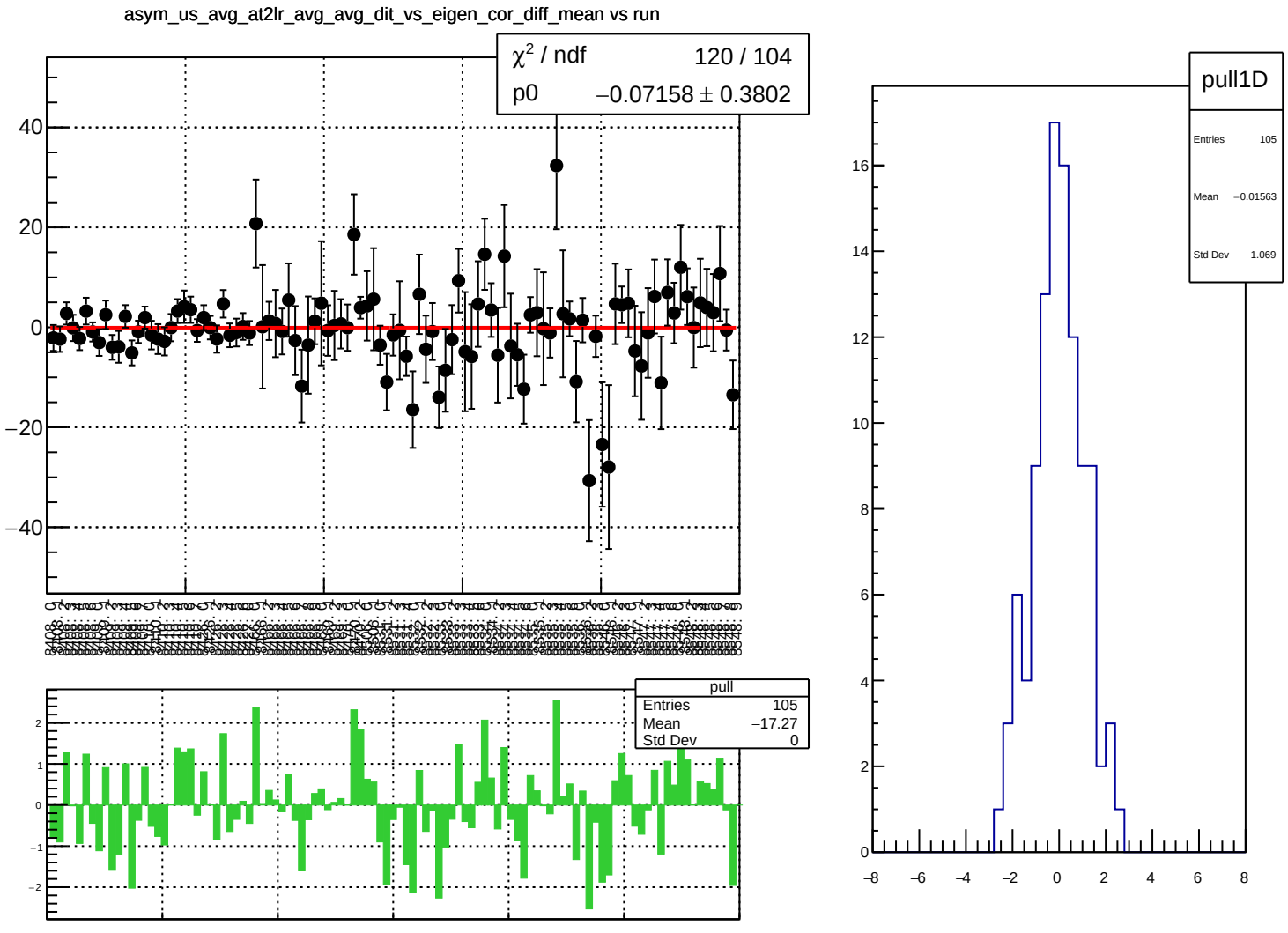

asym_us_avg_at2lr_avg_avg_rms vs run
χ² / ndf 2.993e+05 / 104
p0 1.995e+04 ± 15.1
35000
30000
25000
20000
15000

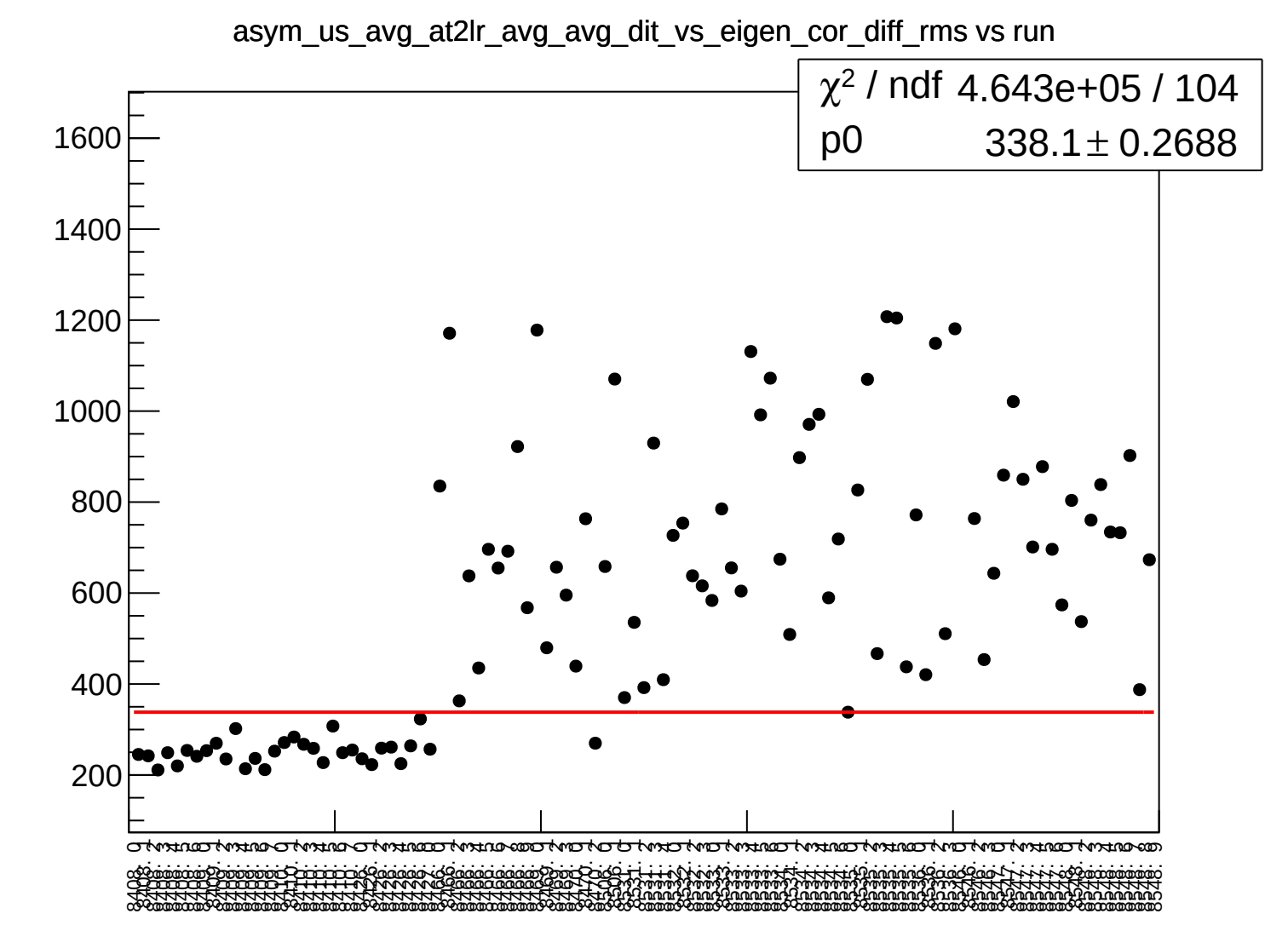

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 128 / 104
p0 8.104e−13 ± 4.492e−13
pull
Entries 105
Mean 102.7
Std Dev 0
pull1D
Entries 105
Mean −0.08739
Std Dev 1.1

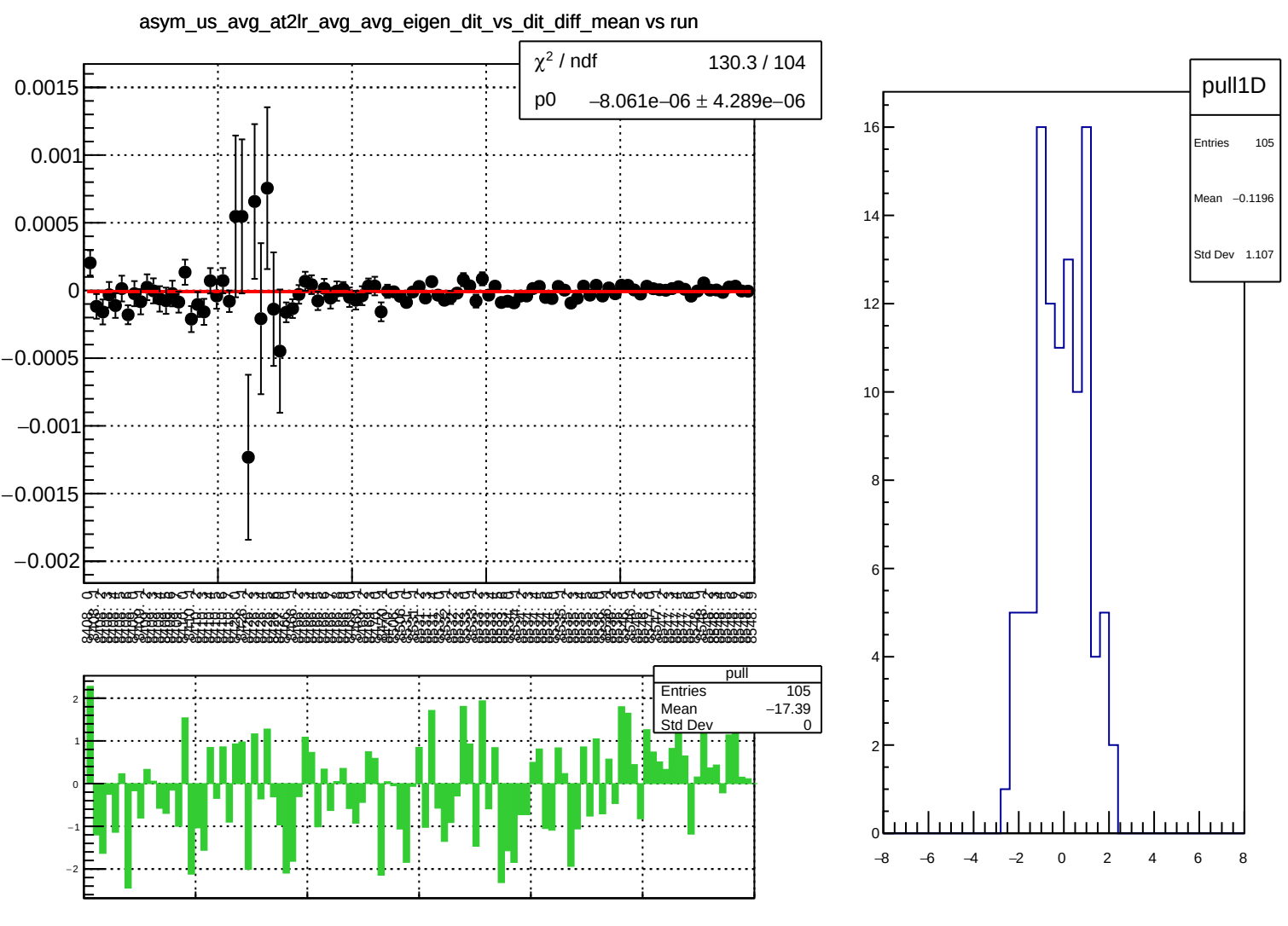

asym_us_avg_at2lr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.594e+06 / 104
p0 2.136e−10 ± 3.177e−13
18
16
14
12
10
8
6
4
2
0

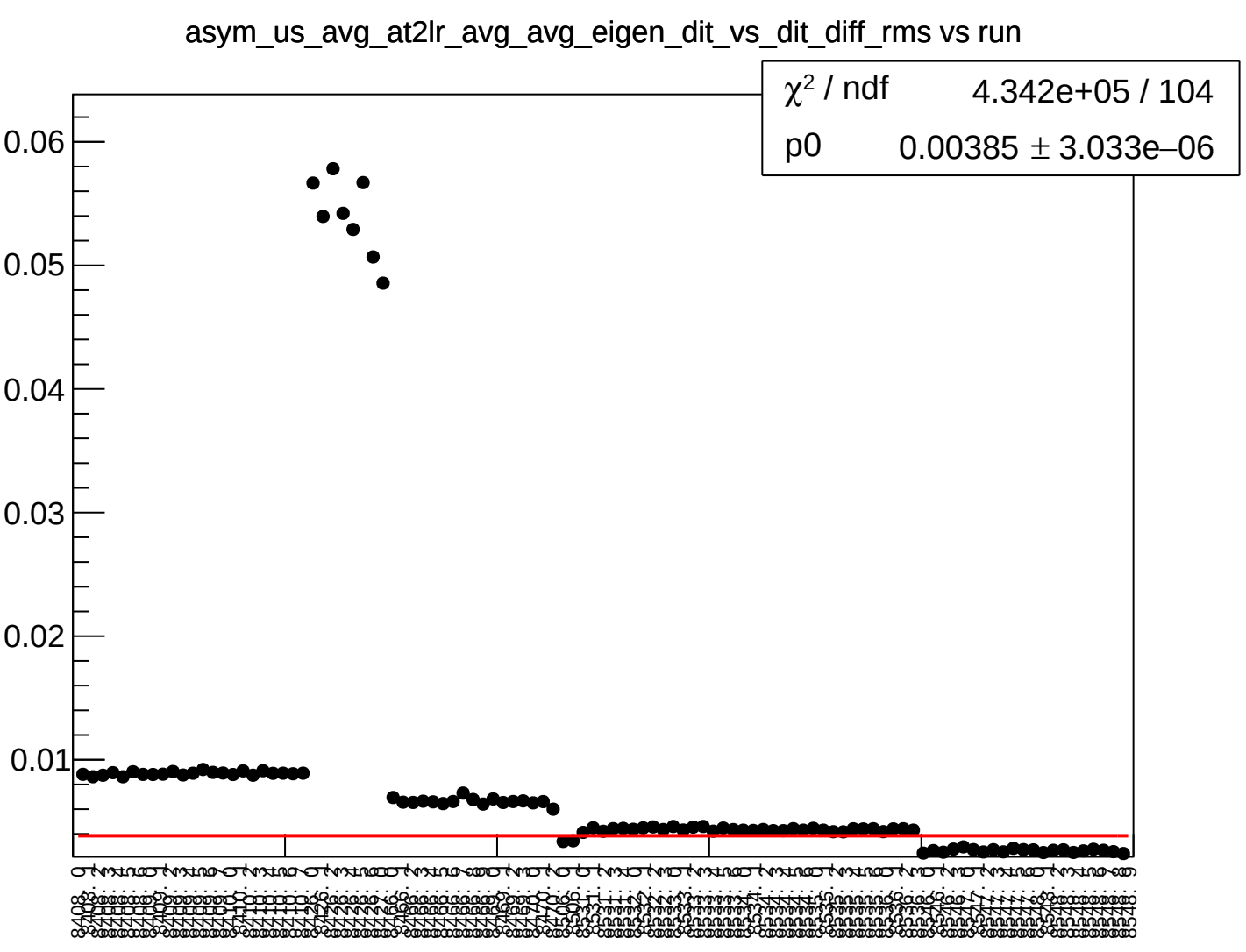

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 120 / 104
p0 −0.07158 ± 0.3802
40
20
0
−20
−40
pull
Entries 105
Mean −17.27
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.01563
Std Dev 1.069
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

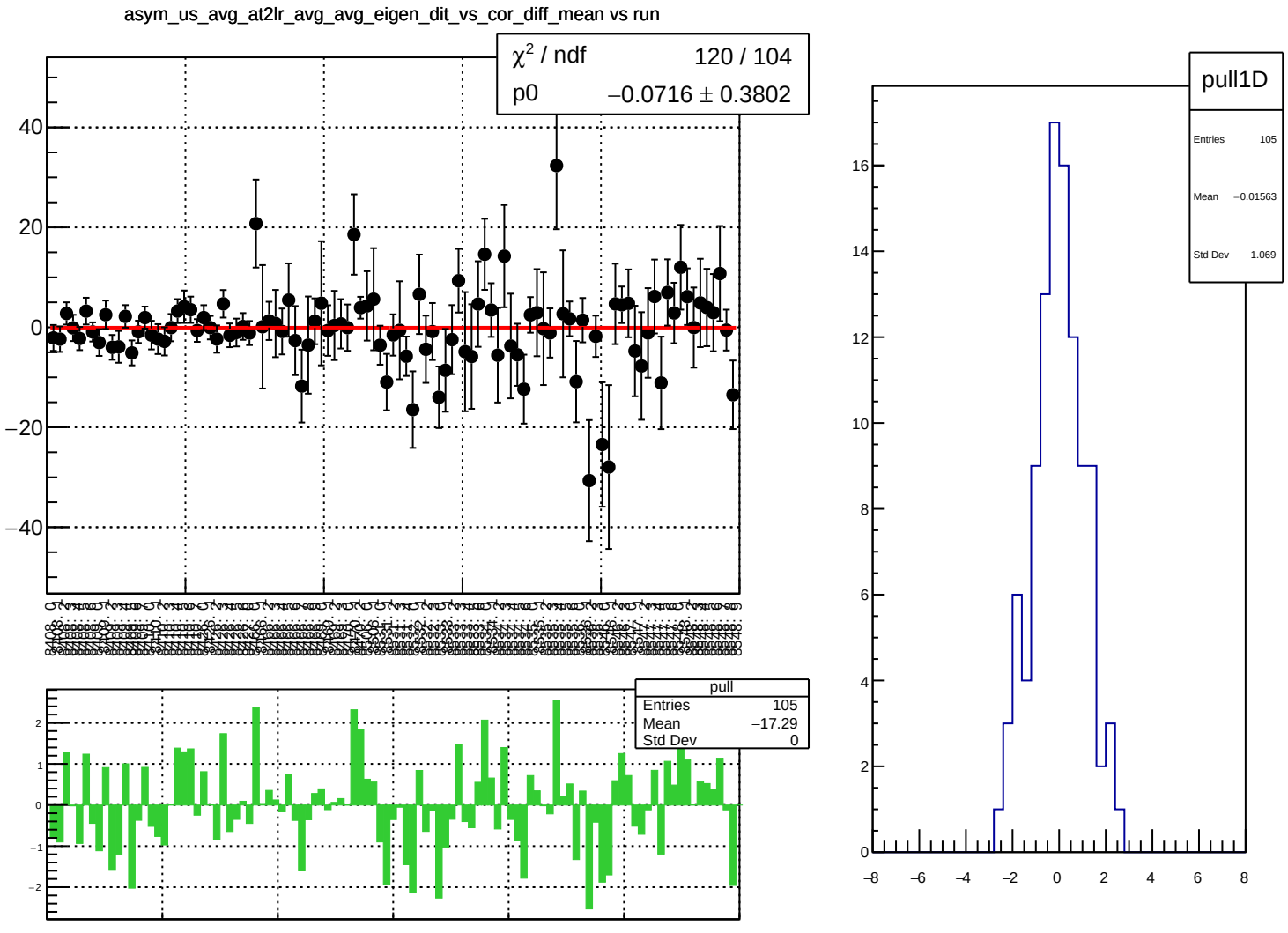

asym_us_avg_at2lr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 4.643e+05 / 104
p0 338.1 ± 0.2688
1600
1400
1200
1000
800
600
400
200

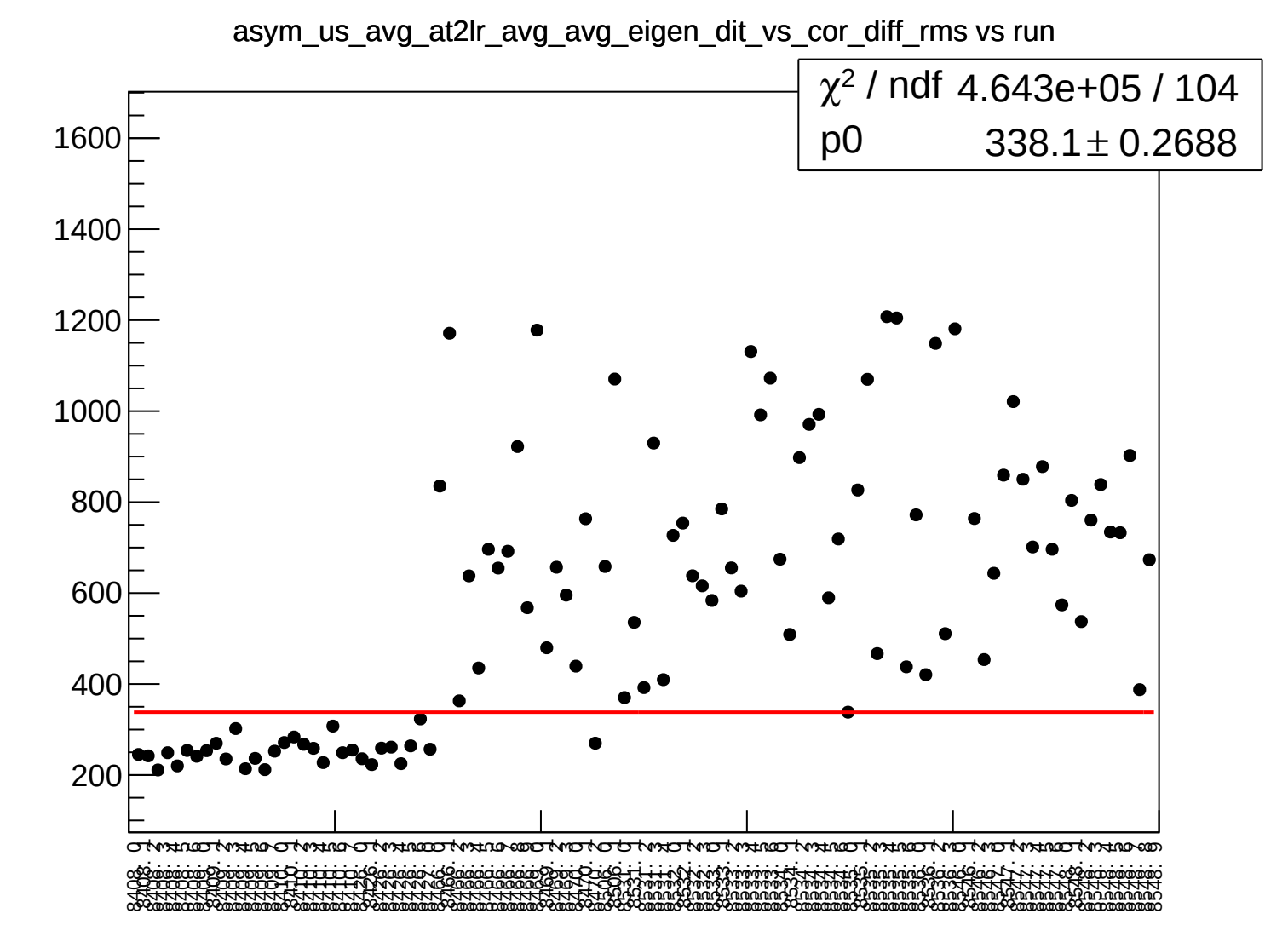

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 120 / 104
p0 −0.07158 ± 0.3802
40
20
0
−20
−40
pull
Entries 105
Mean −17.27
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.01563
Std Dev 1.069
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

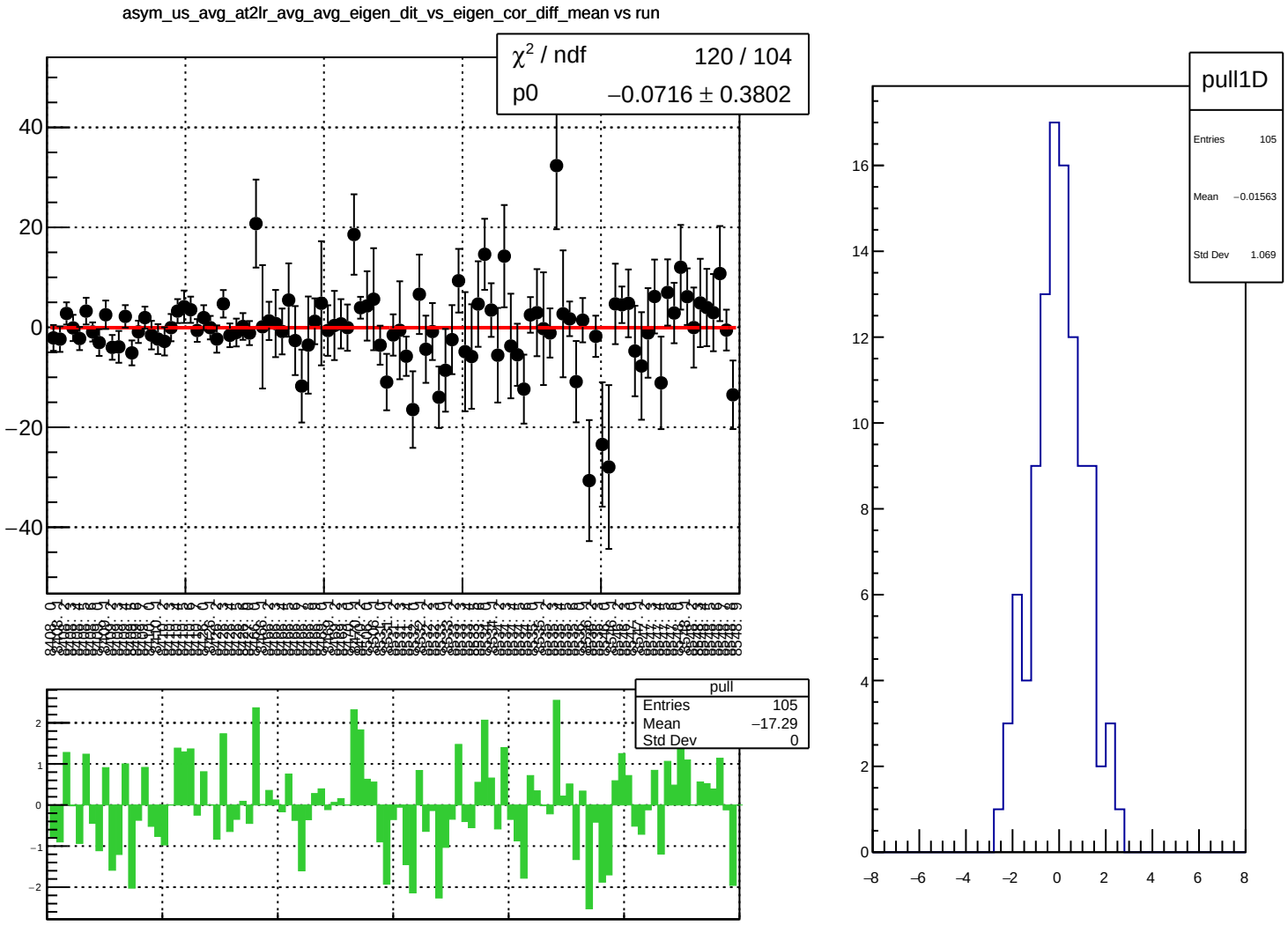

asym_us_avg_at2lr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.643e+05 / 104
p0 338.1 ± 0.2688
1600
1400
1200
1000
800
600
400
200

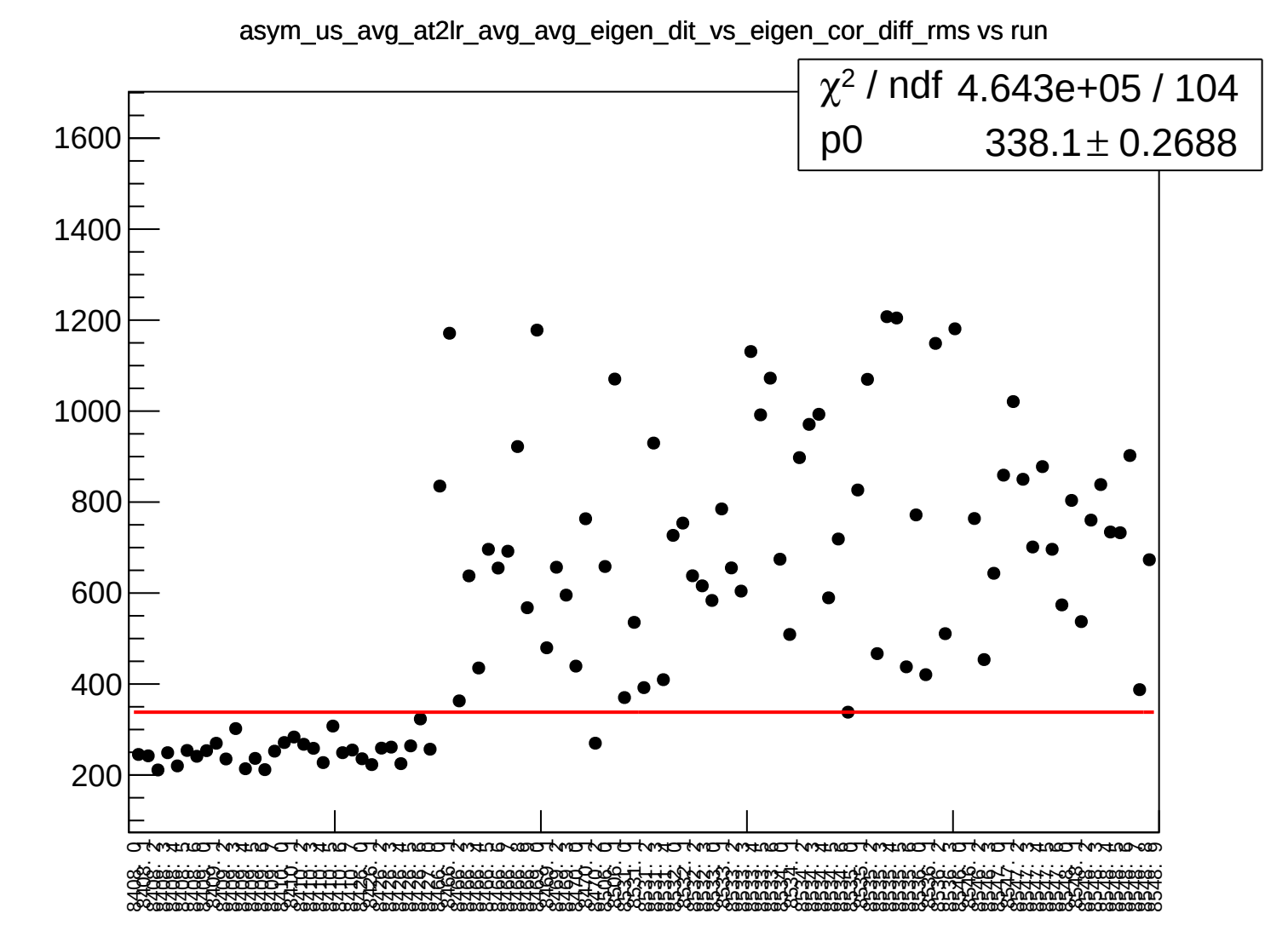

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 130.3 / 104
p0 −8.061e−06 ± 4.289e−06
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 105
Mean −17.39
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.1196
Std Dev 1.107
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

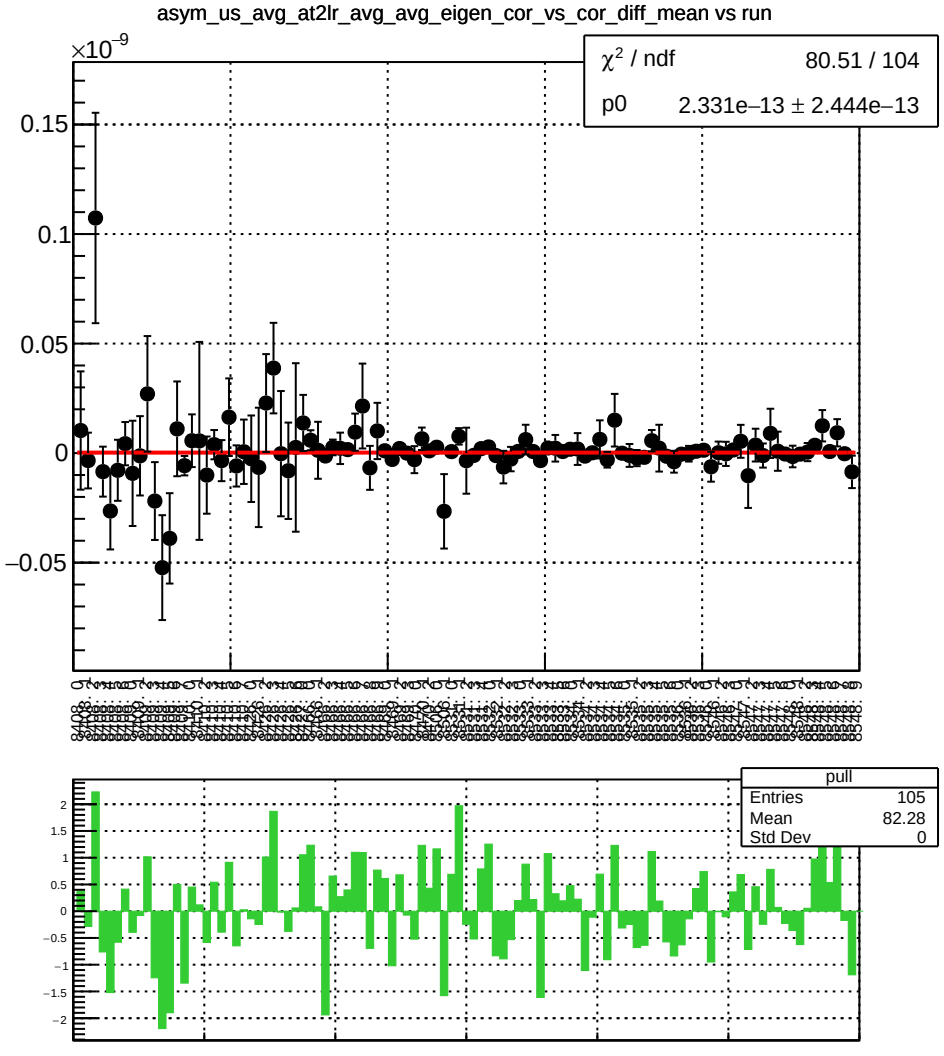

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.342e+05 / 104
p0 0.00385 ± 3.033e–06
0.06
0.05
0.04
0.03
0.02
0.01

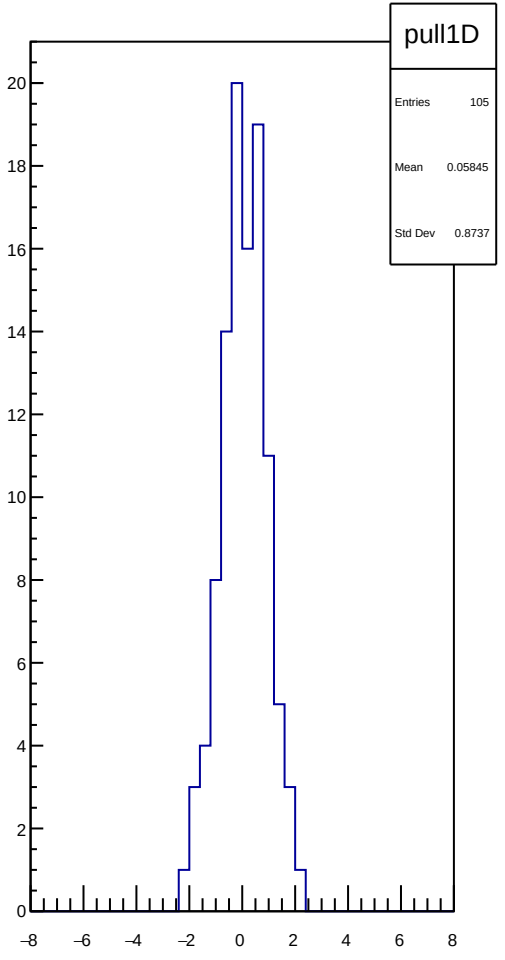

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 120 / 104
p0 −0.0716 ± 0.3802
40
20
0
−20
−40
pull
Entries 105
Mean −17.29
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.01563
Std Dev 1.069
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

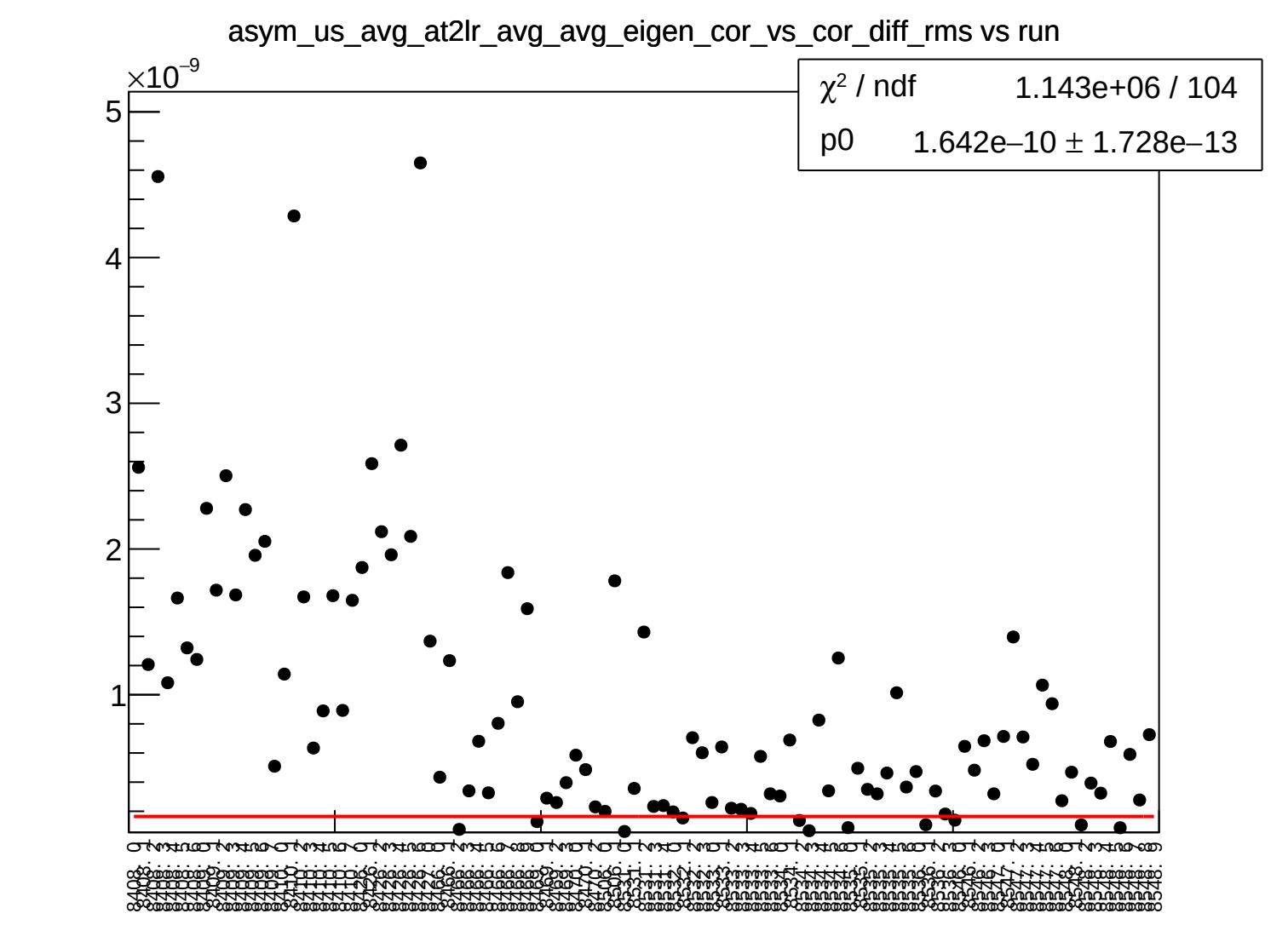

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.643e+05 / 104
p0 338.1 ± 0.2688
1600
1400
1200
1000
800
600
400
200

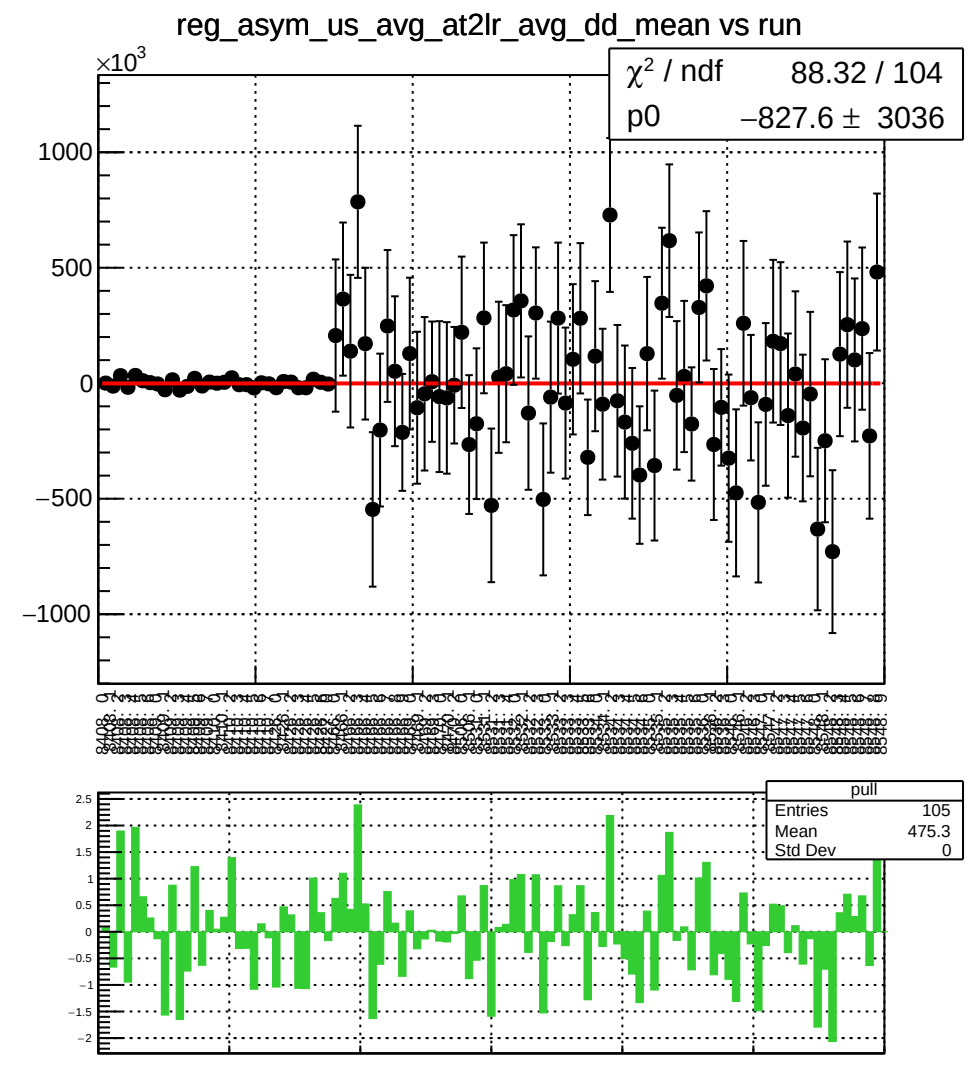

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 120 / 104
p0 −0.0716 ± 0.3802
40
20
0
−20
−40
pull
Entries 105
Mean −17.29
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.01563
Std Dev 1.069
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

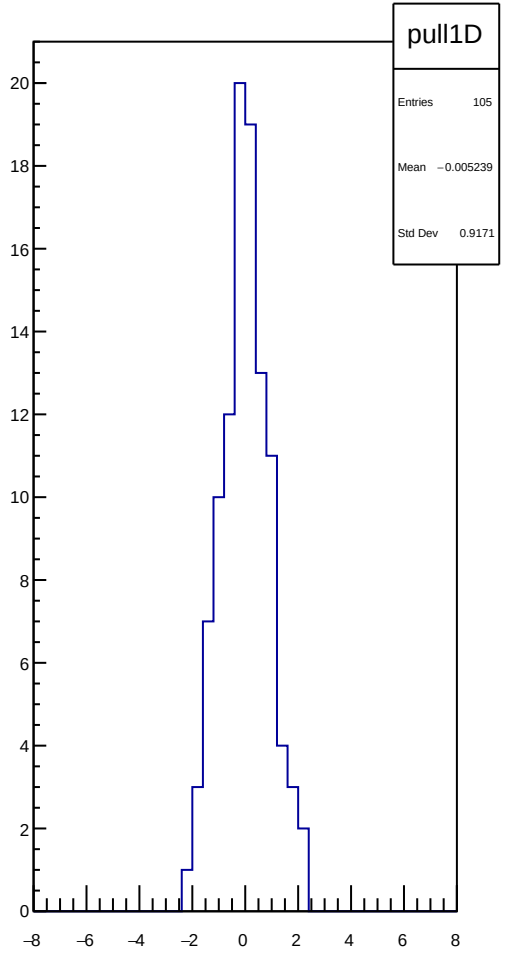

asym_us_avg_at2lr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.643e+05 / 104
p0 338.1 ± 0.2688
1600
1400
1200
1000
800
600
400
200

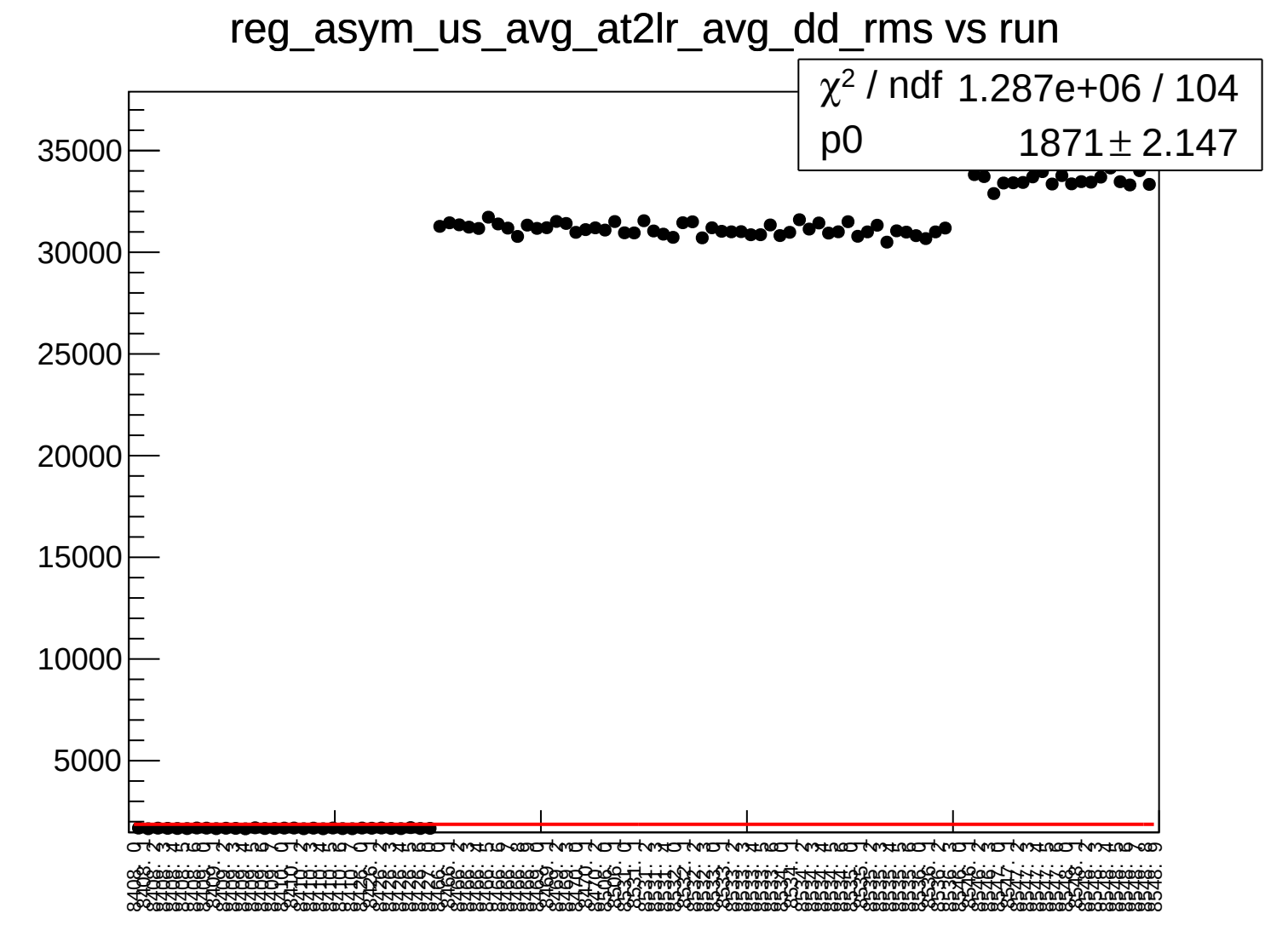

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 80.51 / 104
p0 2.331e−13 ± 2.444e−13
0.15
0.1
0.05
0
−0.05
pull
Entries 105
Mean 82.28
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

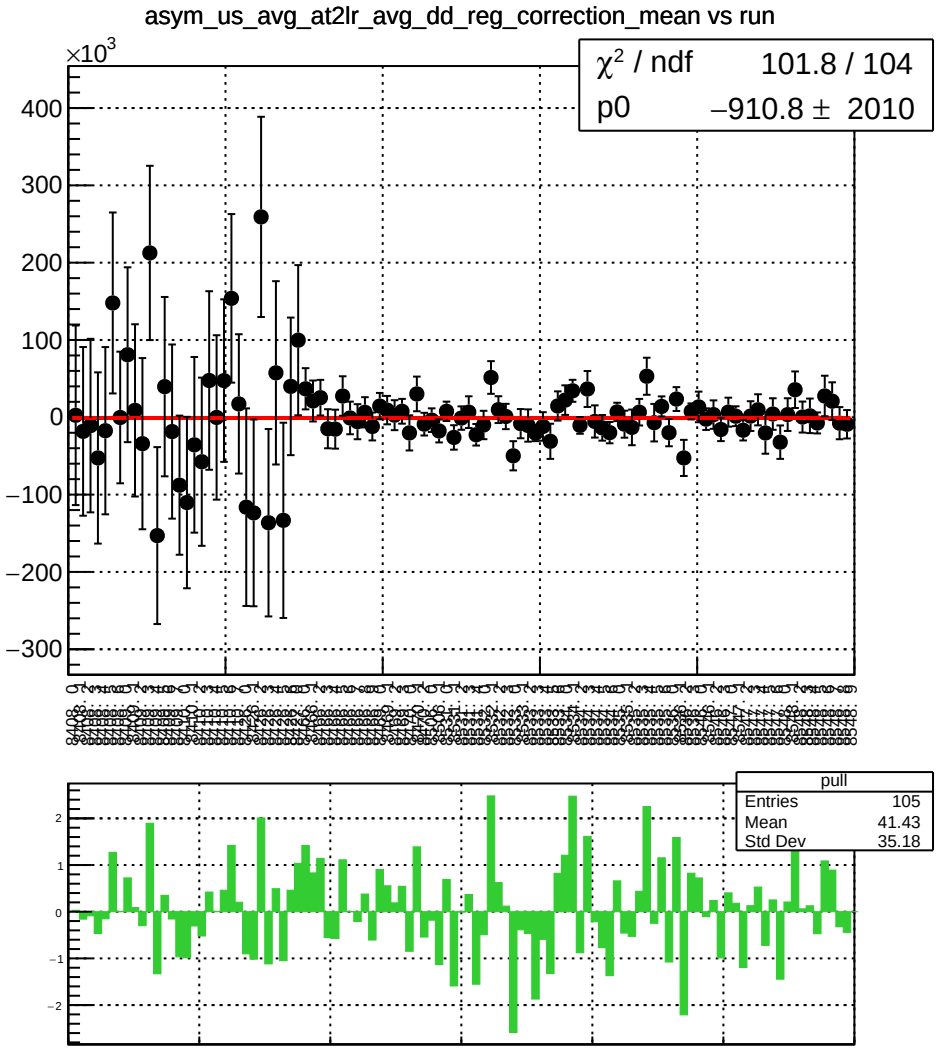

pull1D
Entries 105
Mean 0.05845
Std Dev 0.8737
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

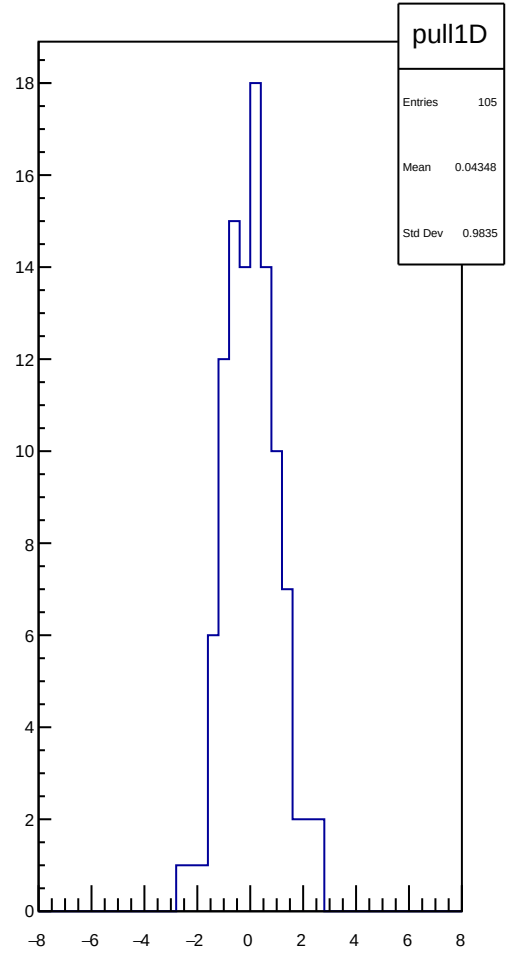

asym_us_avg_at2lr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
5
4
3
2
1
χ² / ndf 1.143e+06 / 104
p0 1.642e−10 ± 1.728e−13

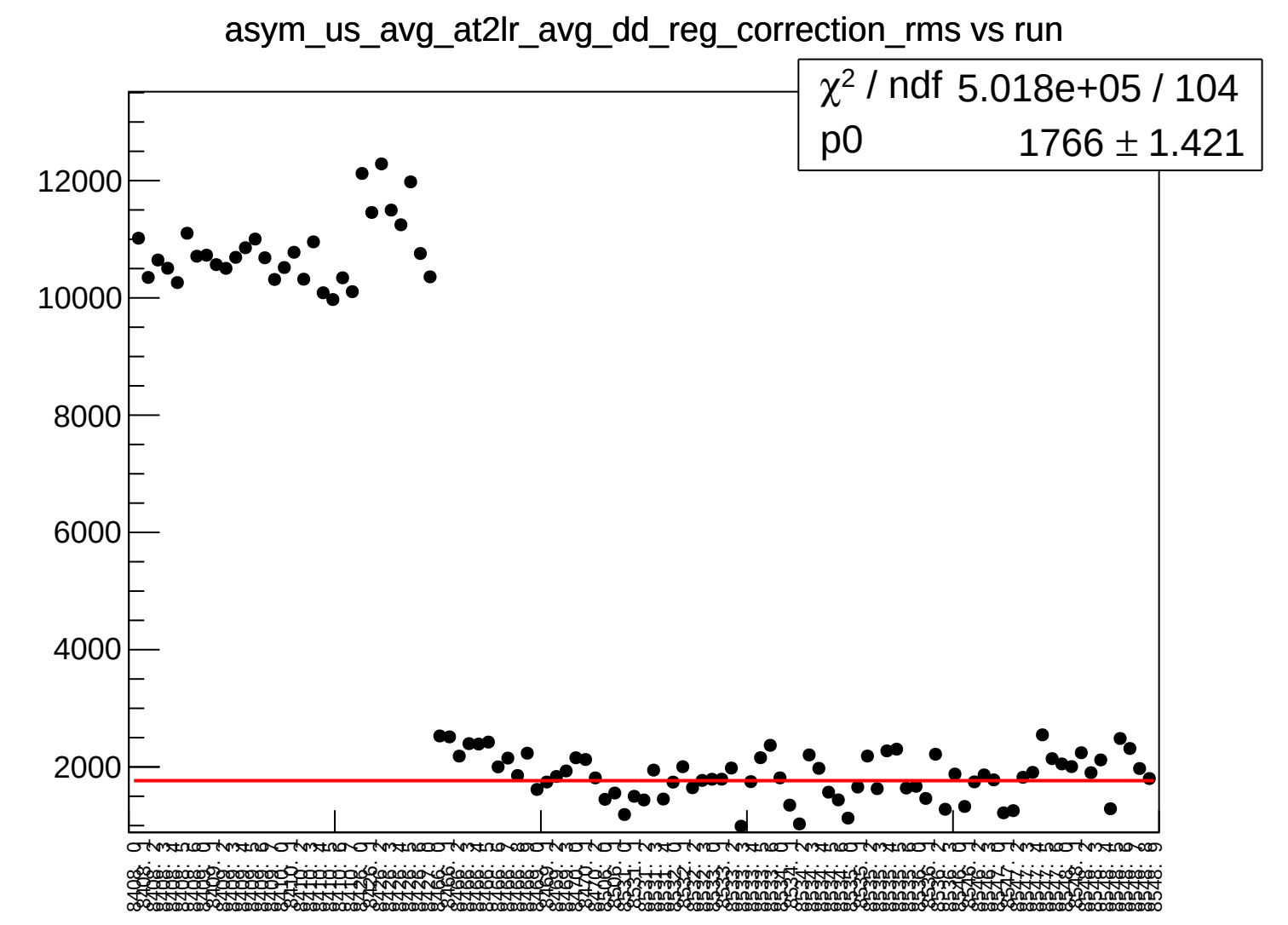

reg_asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ² / ndf 88.32 / 104
p0 −827.6 ± 3036
1000
500
0
−500
−1000
pull
Entries 105
Mean 475.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

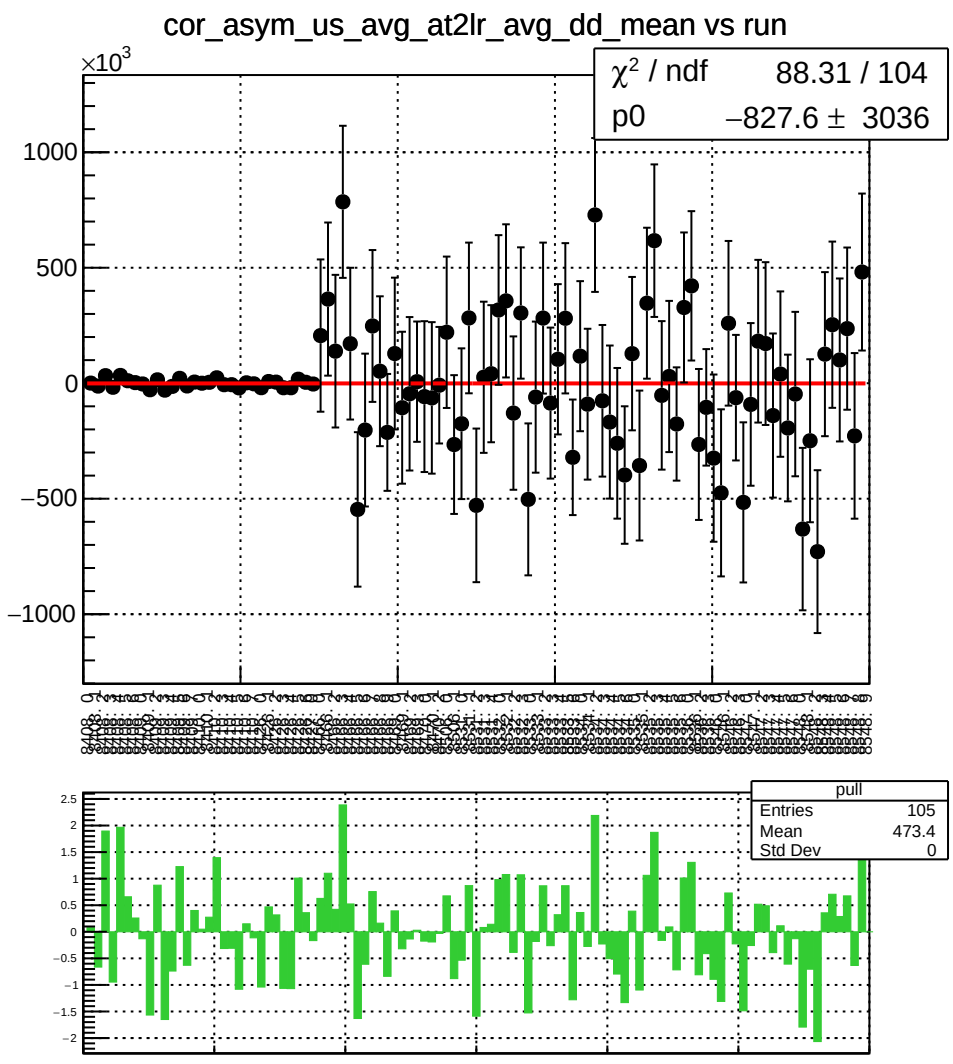

pull1D
Entries 105
Mean −0.005239
Std Dev 0.9171
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

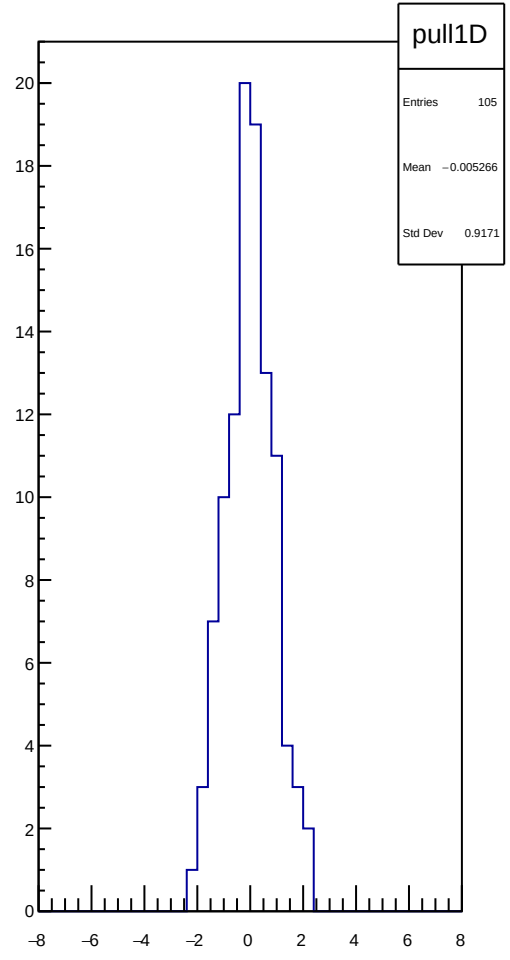

reg_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 1.287e+06 / 104
p0 1871 ± 2.147
35000
30000
25000
20000
15000
10000
5000

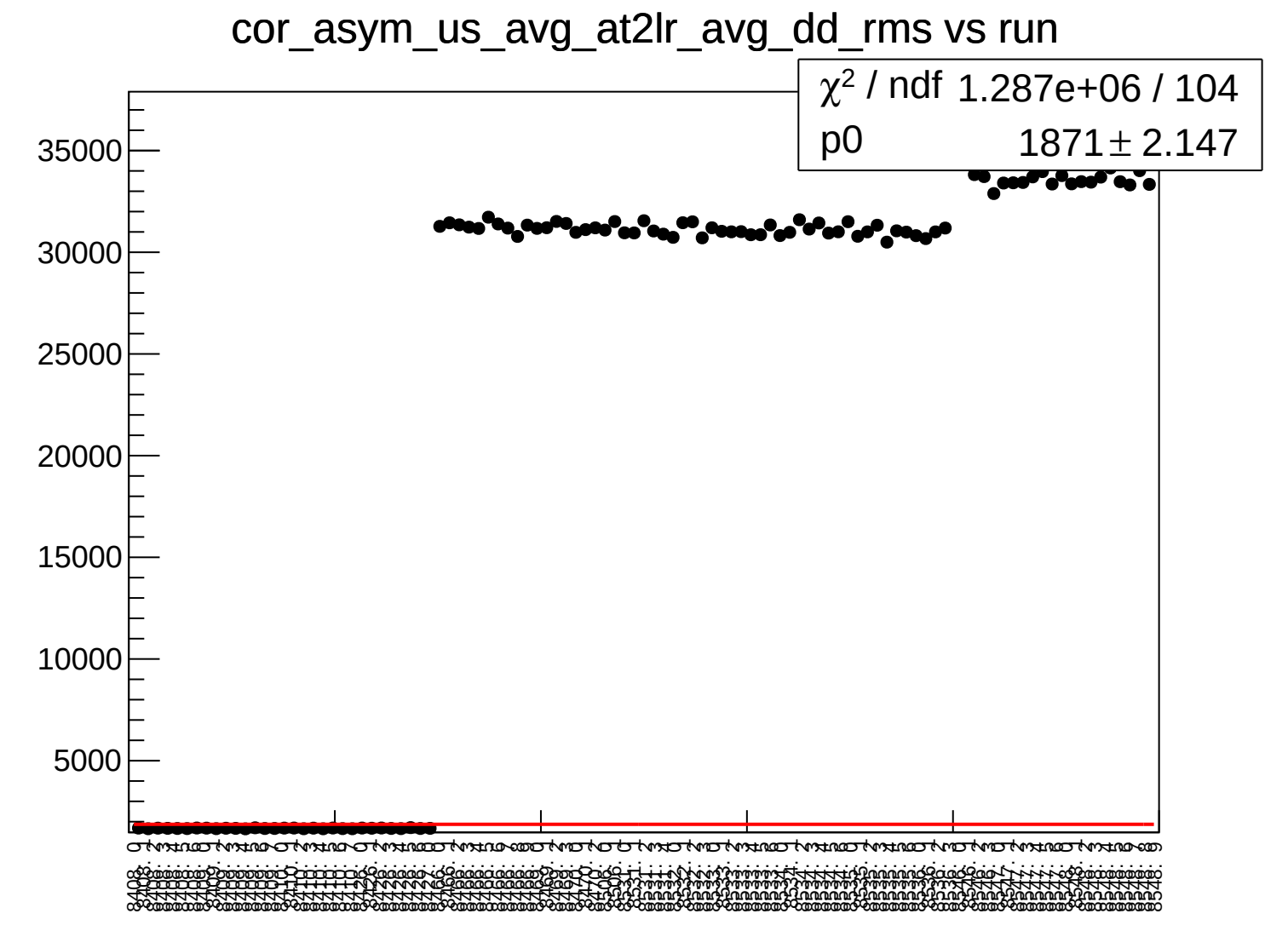

asym_us_avg_at2lr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 101.8 / 104
p0 −910.8 ± 2010
pull
Entries 105
Mean 41.43
Std Dev 35.18

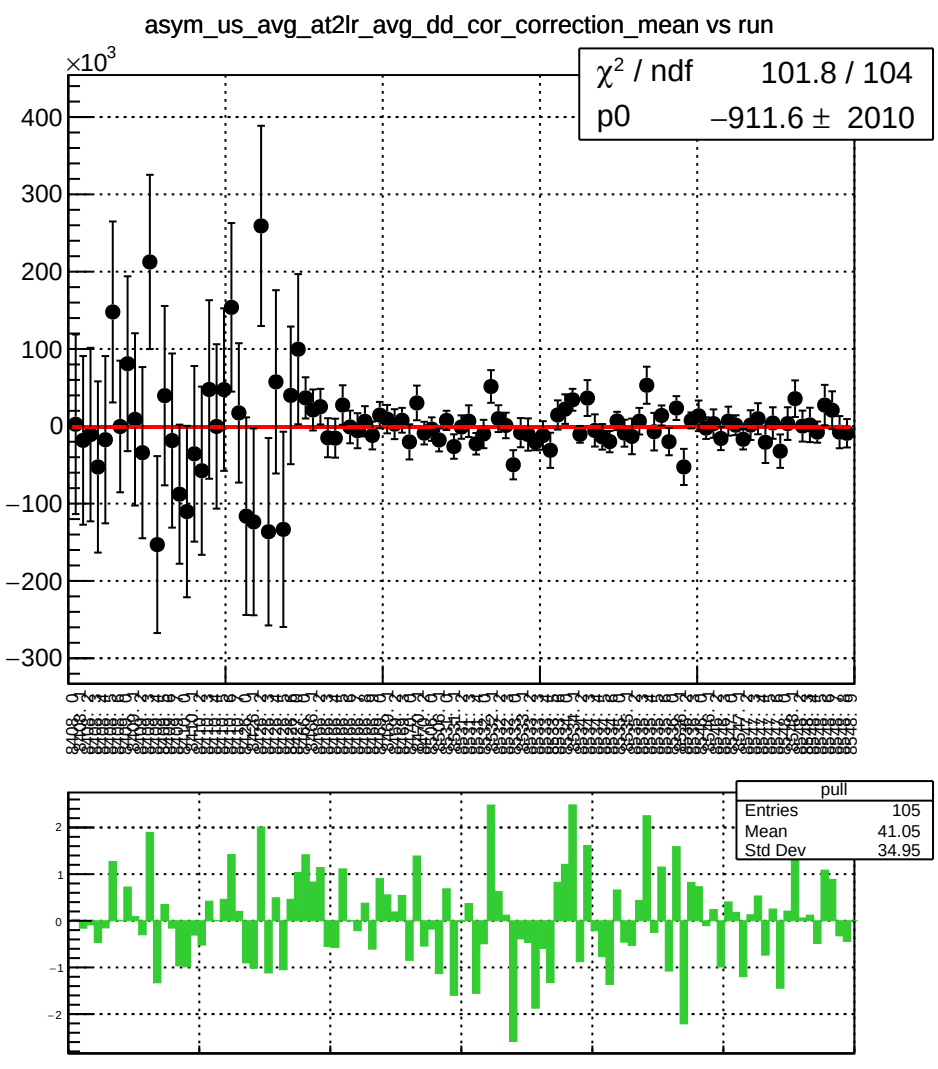

pull1D
Entries 105
Mean 0.04348
Std Dev 0.9835

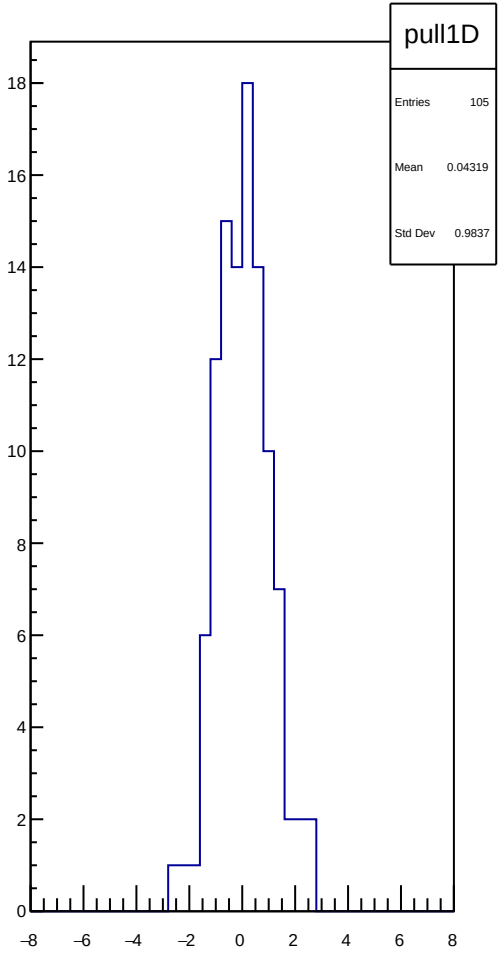

asym_us_avg_at2lr_avg_dd_reg_correction_rms vs run
χ² / ndf 5.018e+05 / 104
p0 1766 ± 1.421
12000
10000
8000
6000
4000
2000

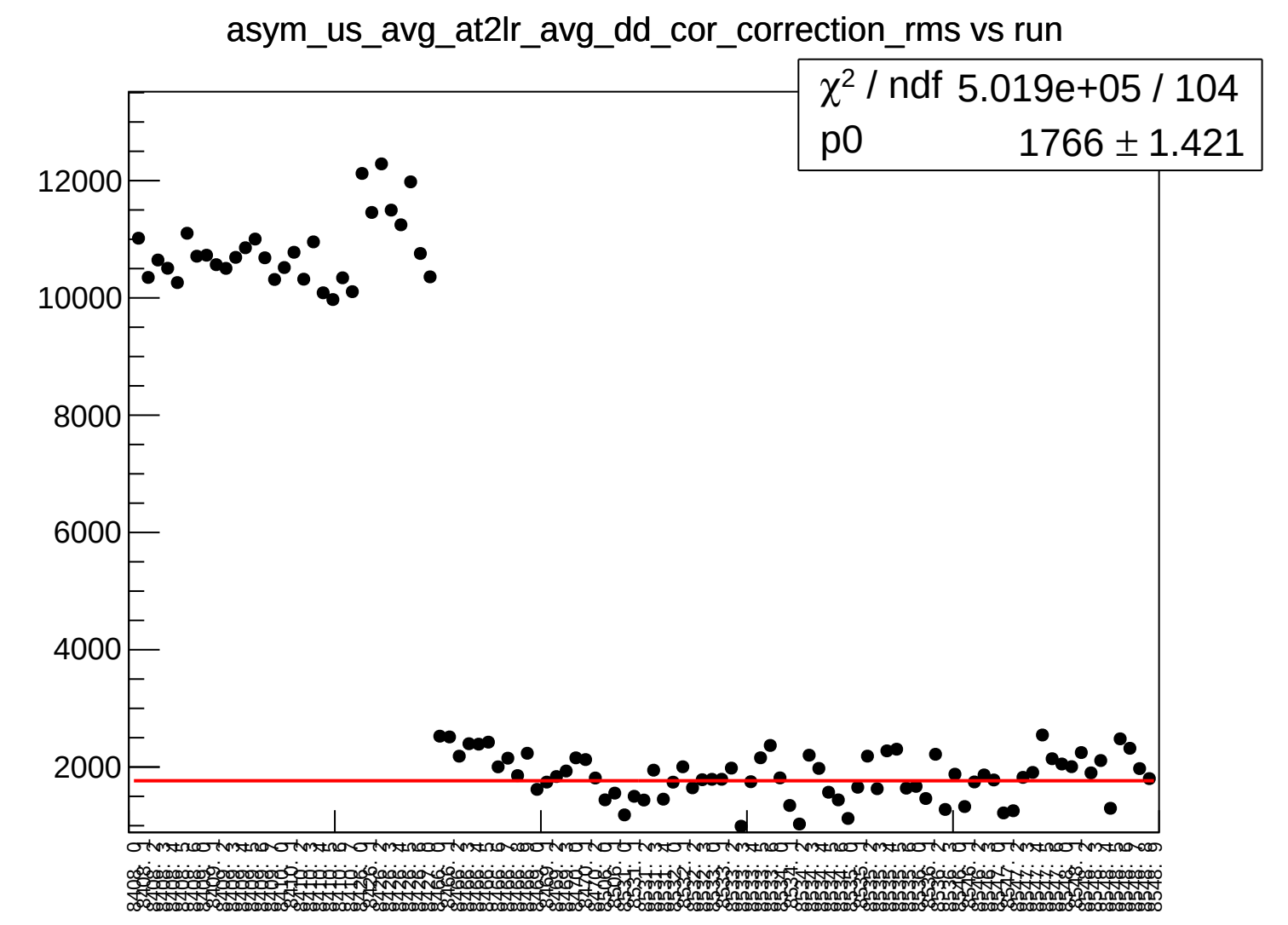

cor_asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ² / ndf 88.31 / 104
p0 −827.6 ± 3036
1000
500
0
−500
−1000
pull
Entries 105
Mean 473.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

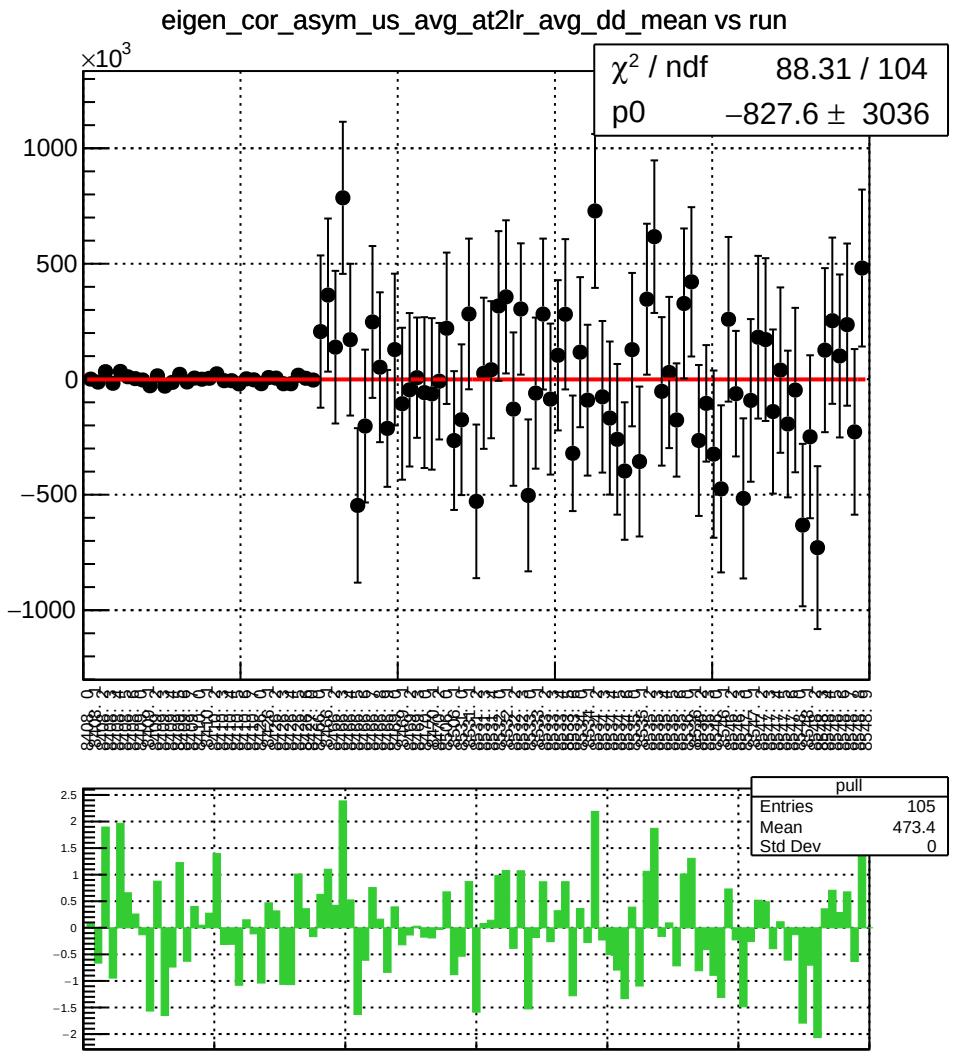

pull1D
Entries 105
Mean −0.005266
Std Dev 0.9171
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

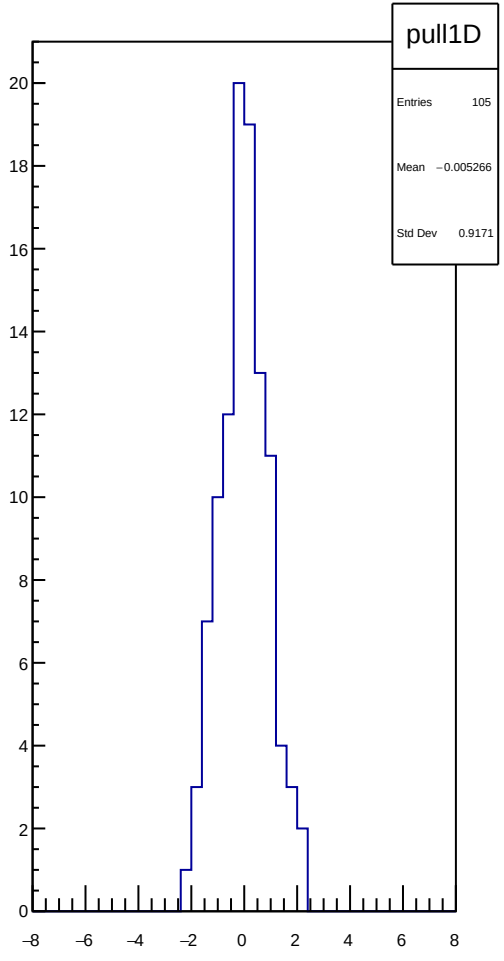

cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 1.287e+06 / 104
p0 1871 ± 2.147
35000
30000
25000
20000
15000
10000
5000

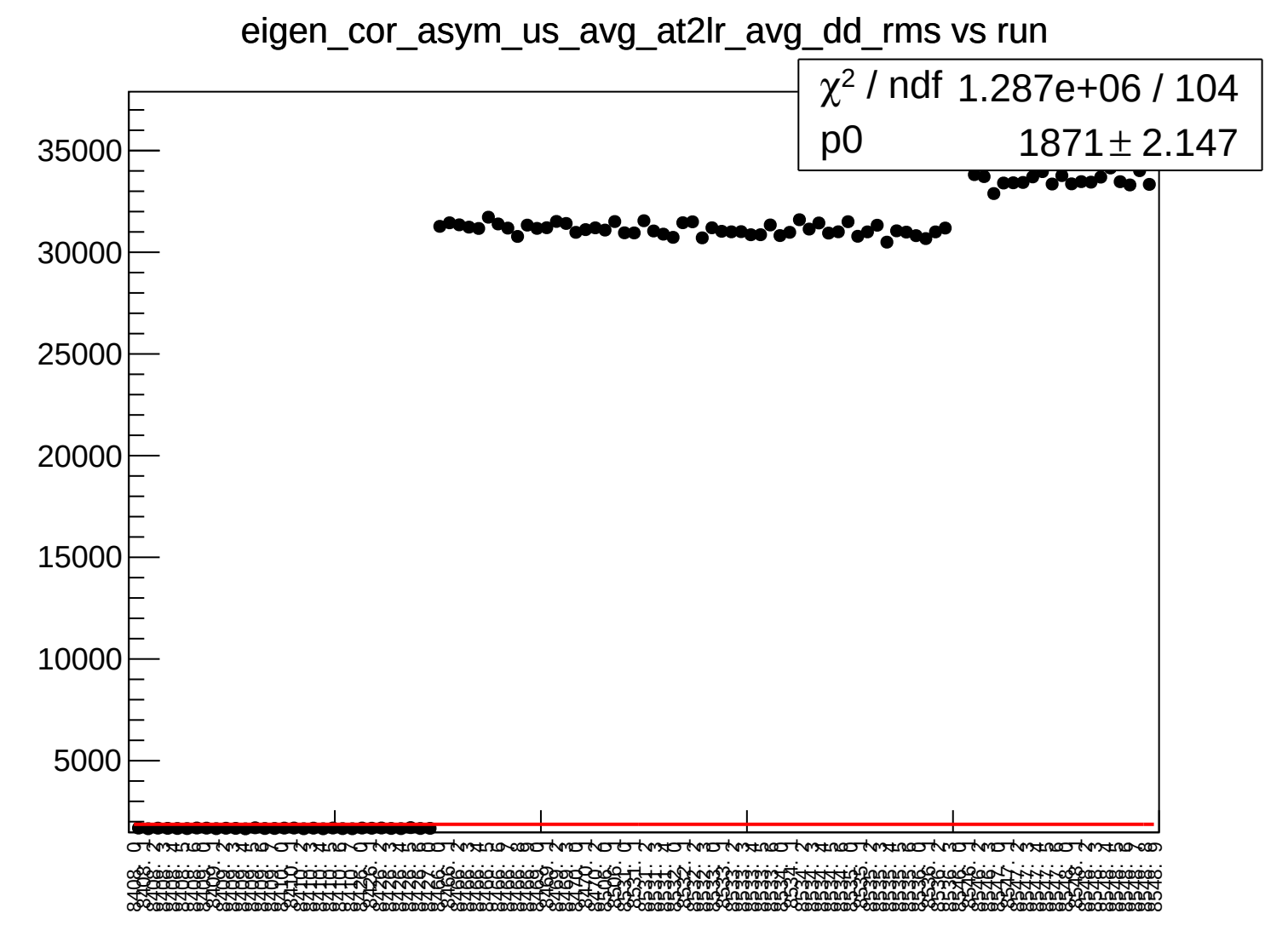

asym_us_avg_at2lr_avg_dd_cor_correction_mean vs run
×10^3
χ² / ndf 101.8 / 104
p0 −911.6 ± 2010
pull
Entries 105
Mean 41.05
Std Dev 34.95

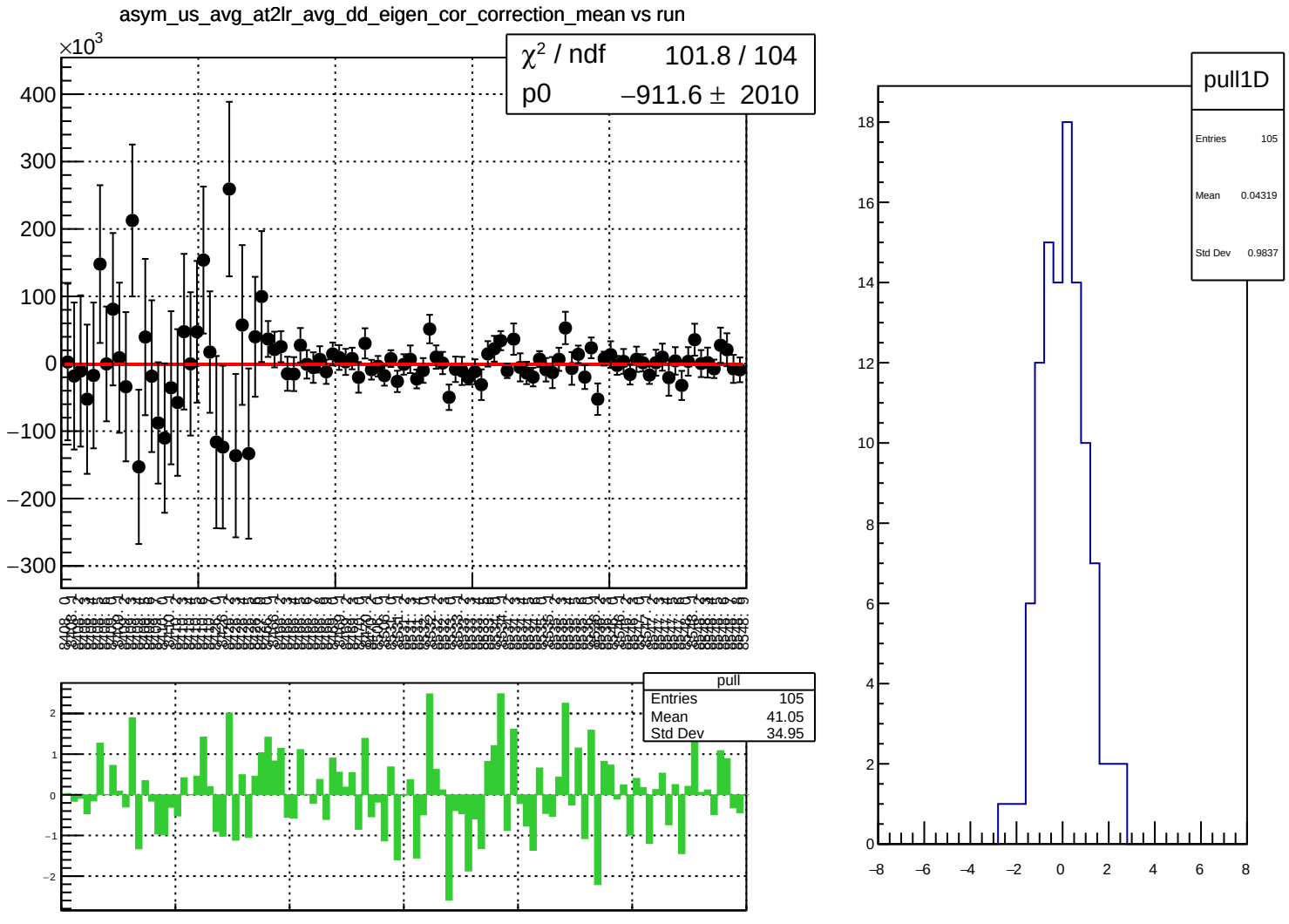

pull1D
Entries 105
Mean 0.04319
Std Dev 0.9837

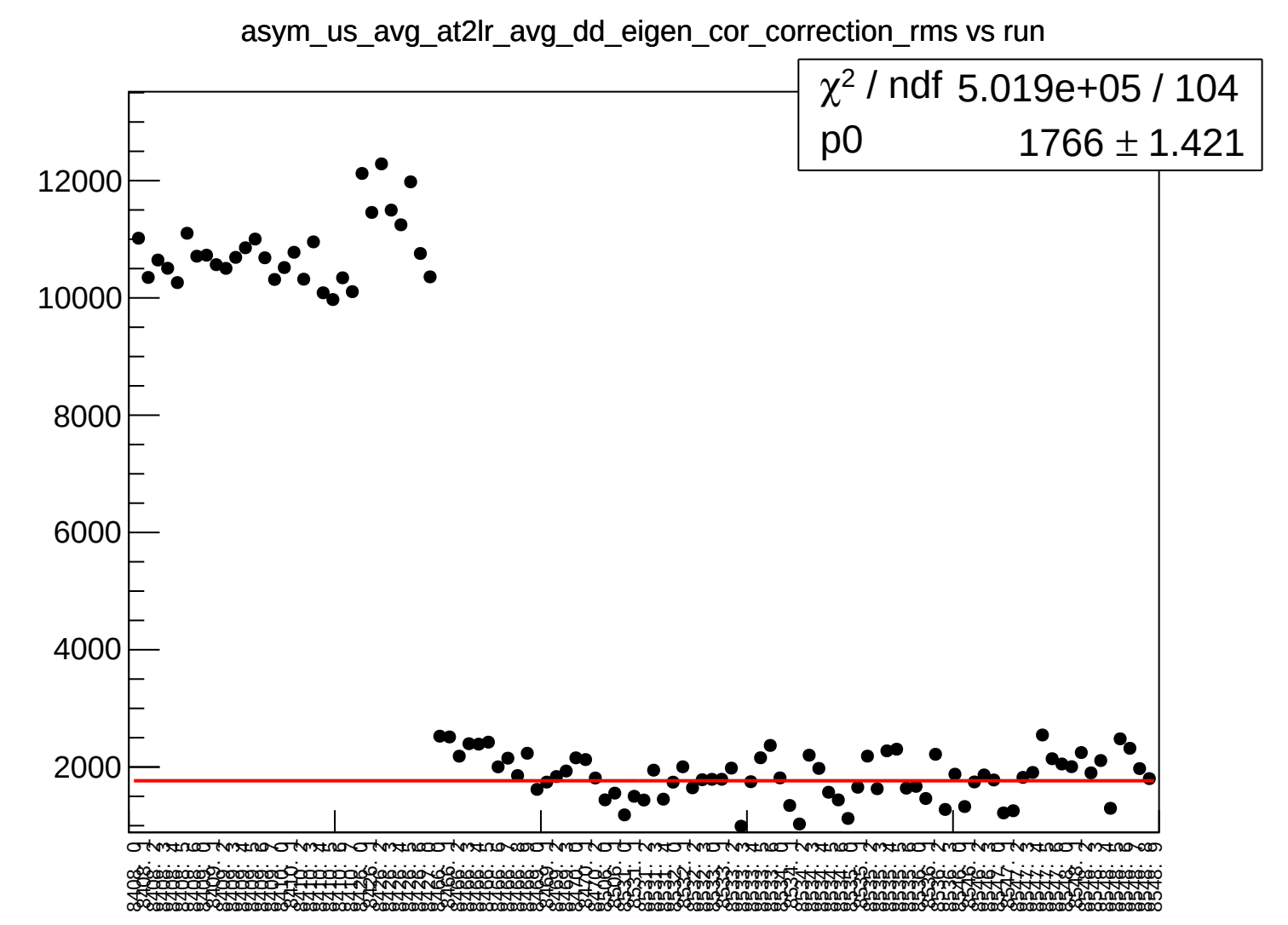

asym_us_avg_at2lr_avg_dd_cor_correction_rms vs run
χ² / ndf 5.019e+05 / 104
p0 1766 ± 1.421
12000
10000
8000
6000
4000
2000

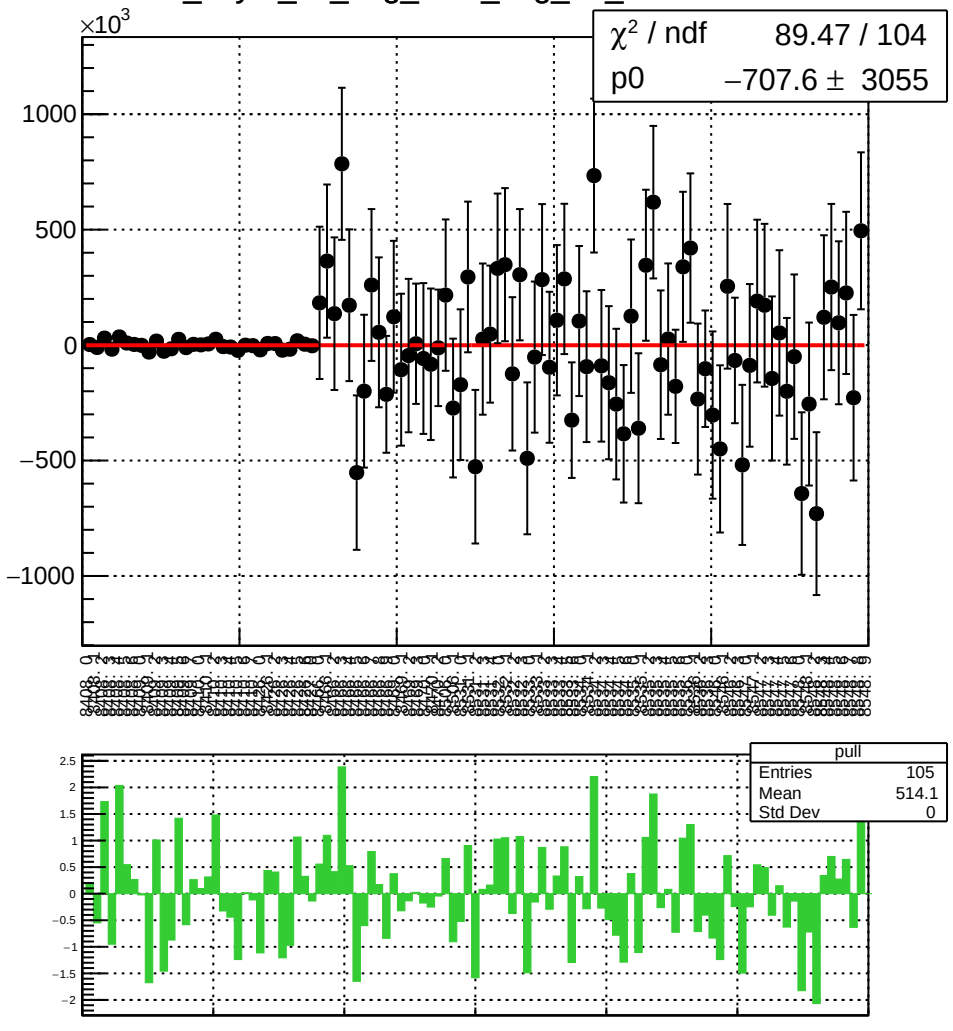

eigen_cor_asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ² / ndf 88.31 / 104
p0 −827.6 ± 3036
1000
500
0
−500
−1000
pull
Entries 105
Mean 473.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

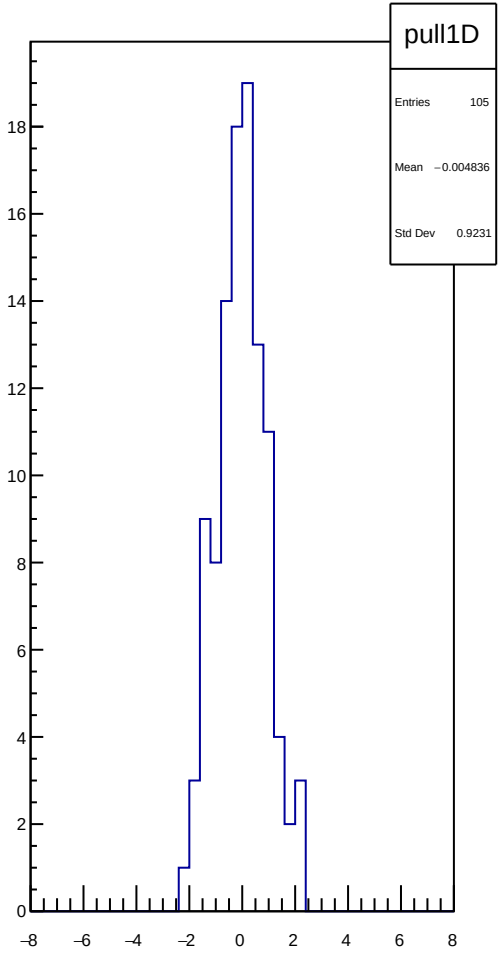

pull1D
Entries 105
Mean −0.005266
Std Dev 0.9171
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

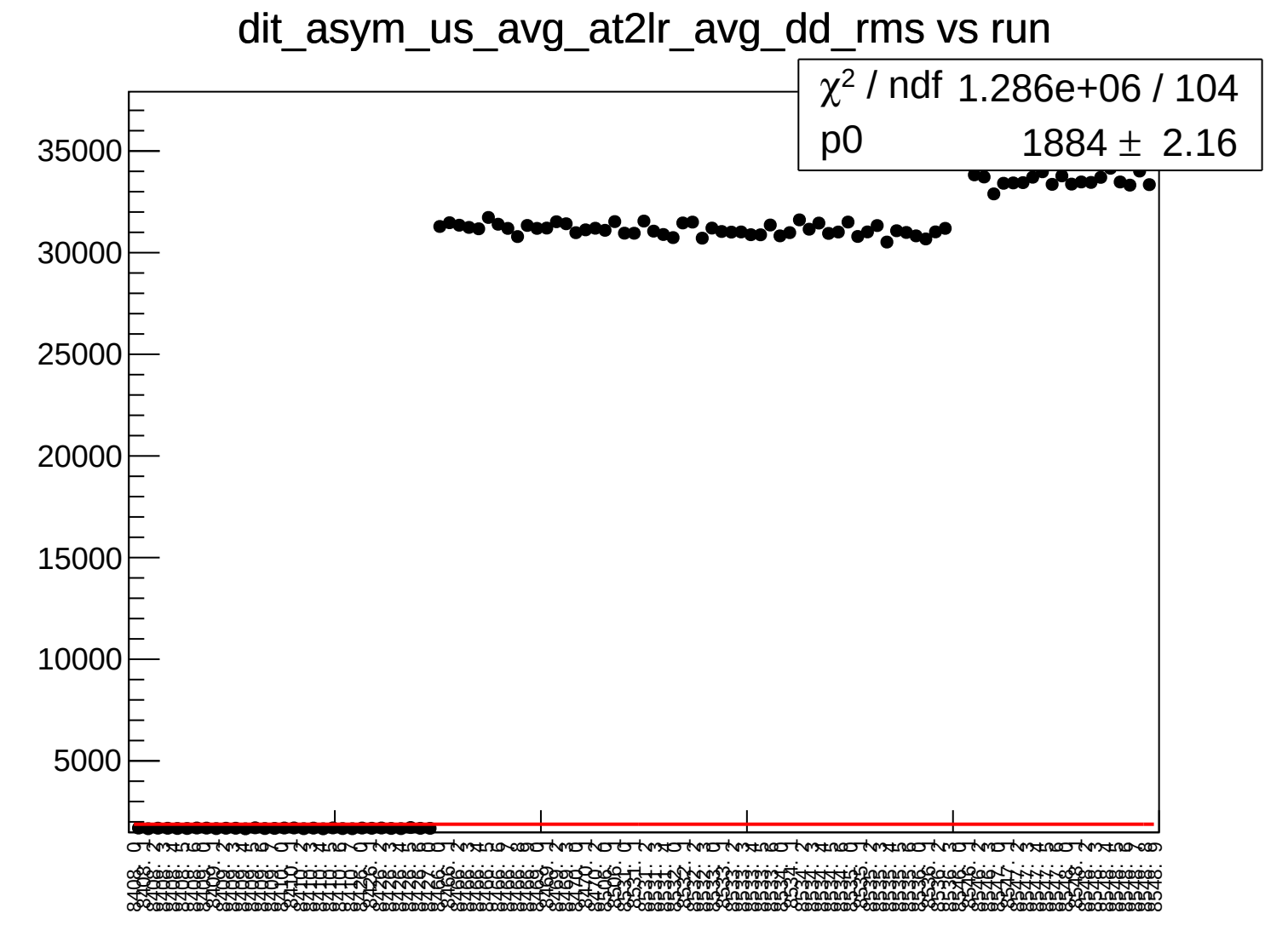

eigen_cor_asym_us_avg_at2lr_avg_dd_rms vs run
χ^2 / ndf 1.287e+06 / 104
p0 1871 ± 2.147
35000
30000
25000
20000
15000
10000
5000

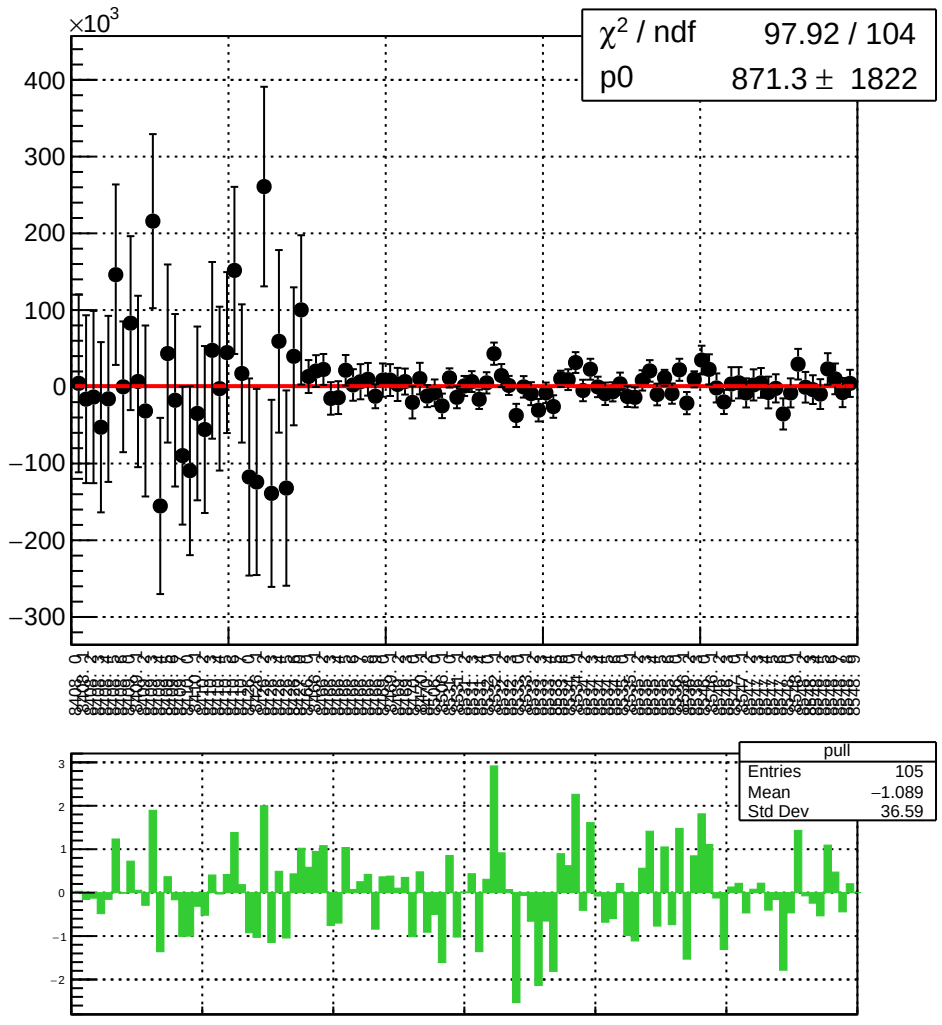

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 101.8 / 104
p0 −911.6 ± 2010
pull
Entries 105
Mean 41.05
Std Dev 34.95
pull1D
Entries 105
Mean 0.04319
Std Dev 0.9837

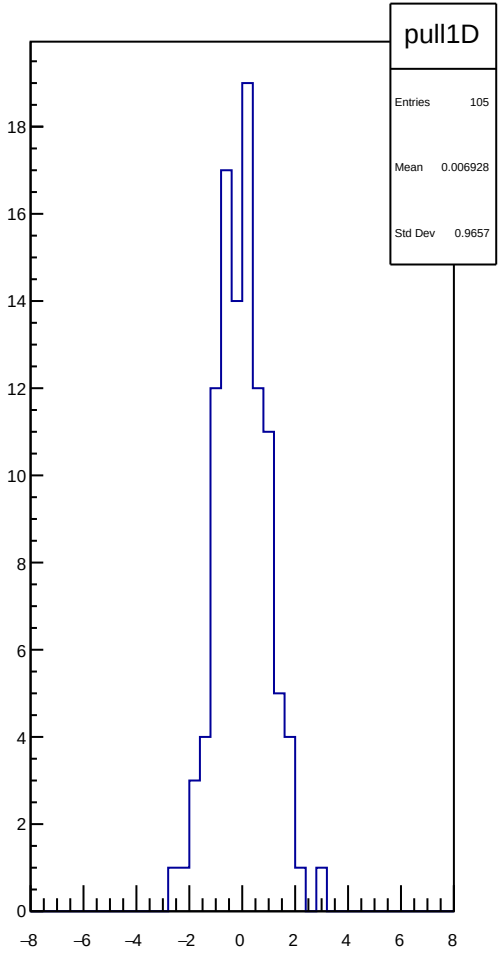

asym_us_avg_at2lr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 5.019e+05 / 104
p0 1766 ± 1.421
12000
10000
8000
6000
4000
2000

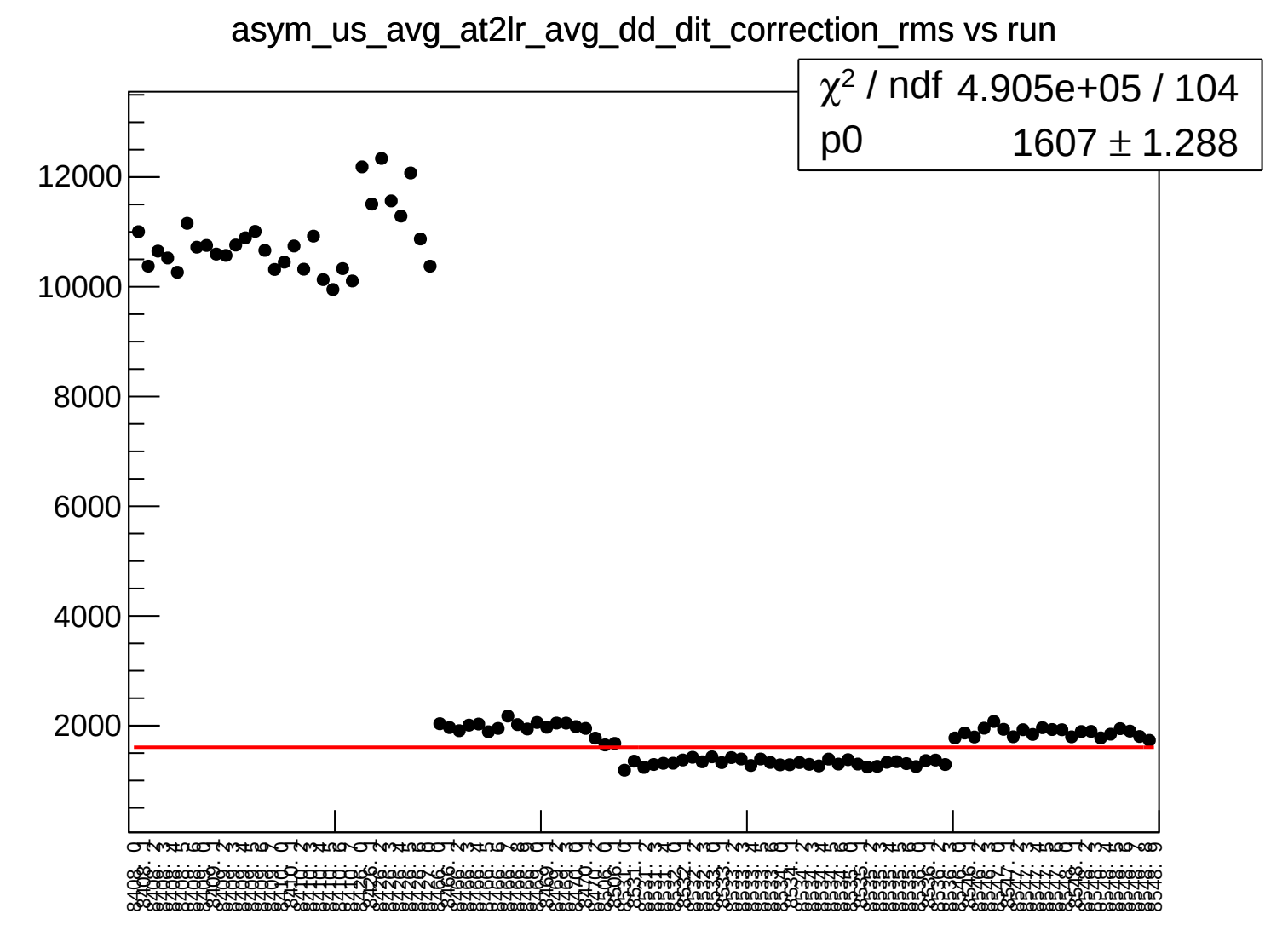

dit_asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ² / ndf 89.47 / 104
p0 −707.6 ± 3055
1000
500
0
−500
−1000
pull
Entries 105
Mean 514.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

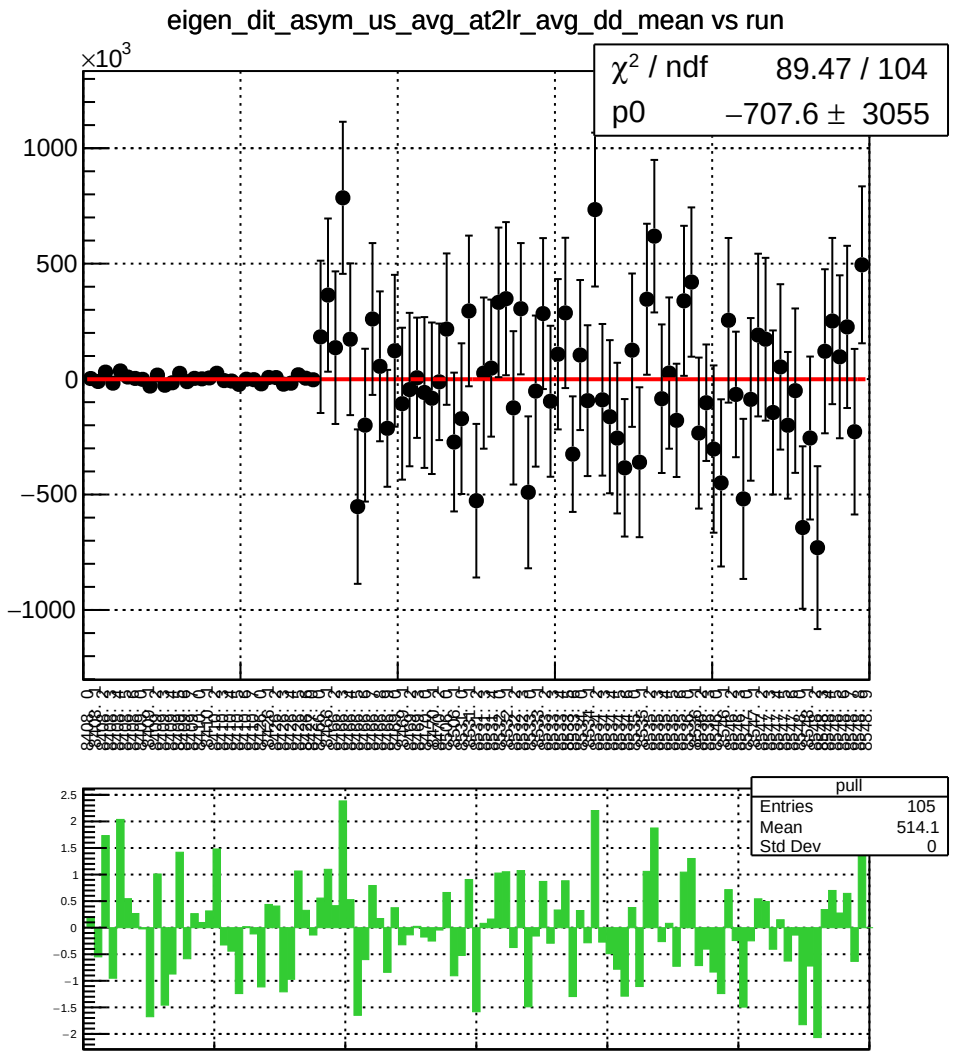

pull1D
Entries 105
Mean −0.004836
Std Dev 0.9231
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

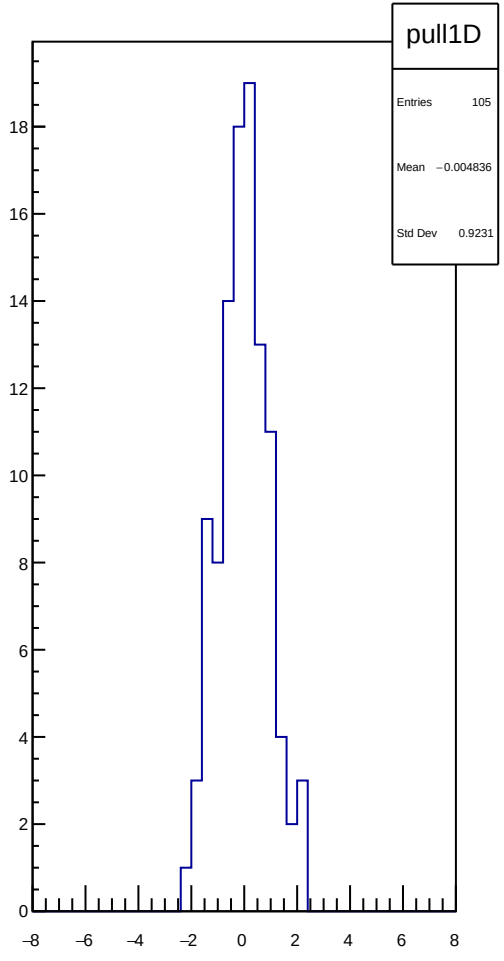

dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 1.286e+06 / 104
p0 1884 ± 2.16
35000
30000
25000
20000
15000
10000
5000

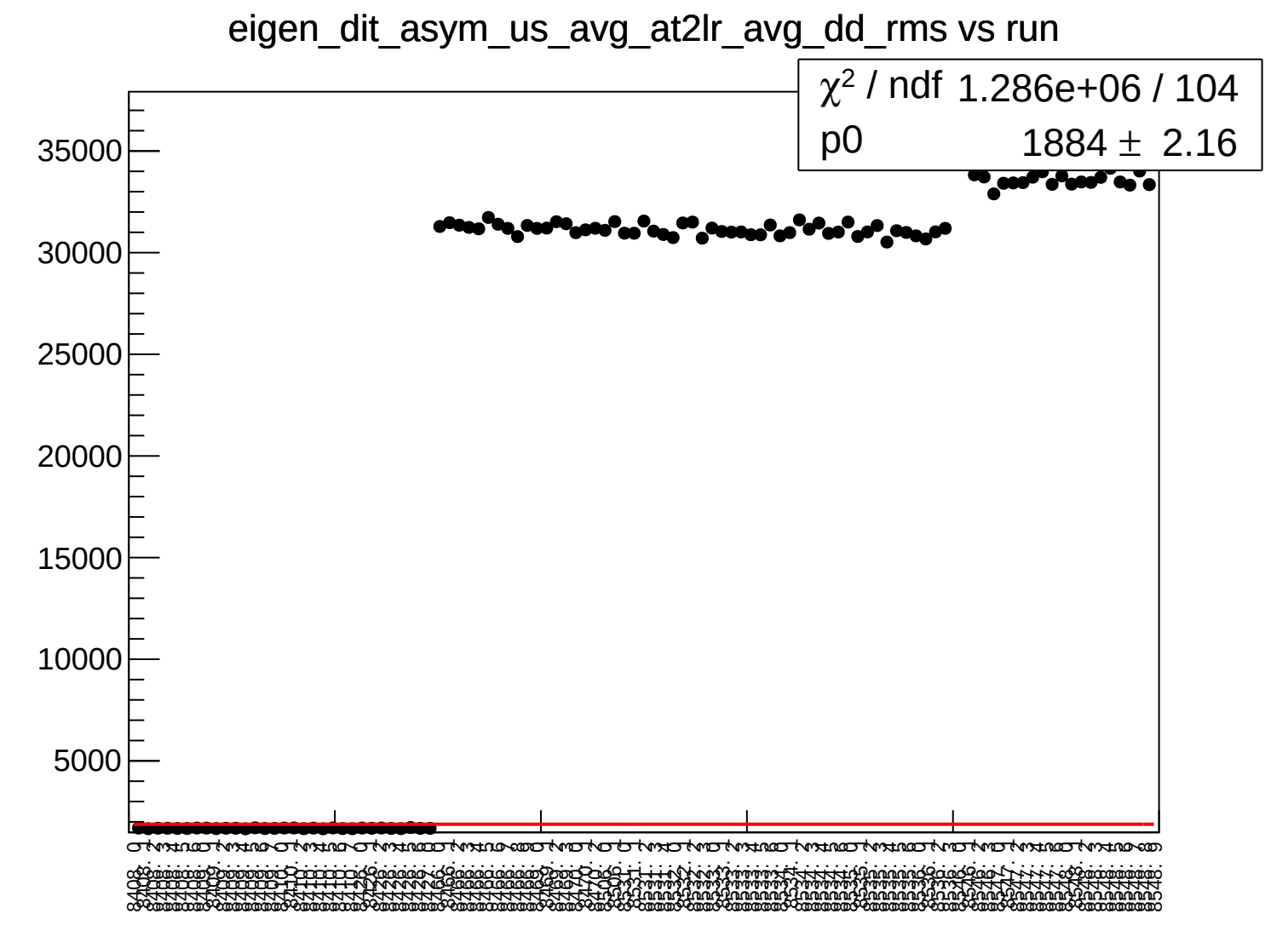

asym_us_avg_at2lr_avg_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 97.92 / 104
p0 871.3 ± 1822
pull
Entries 105
Mean −1.089
Std Dev 36.59

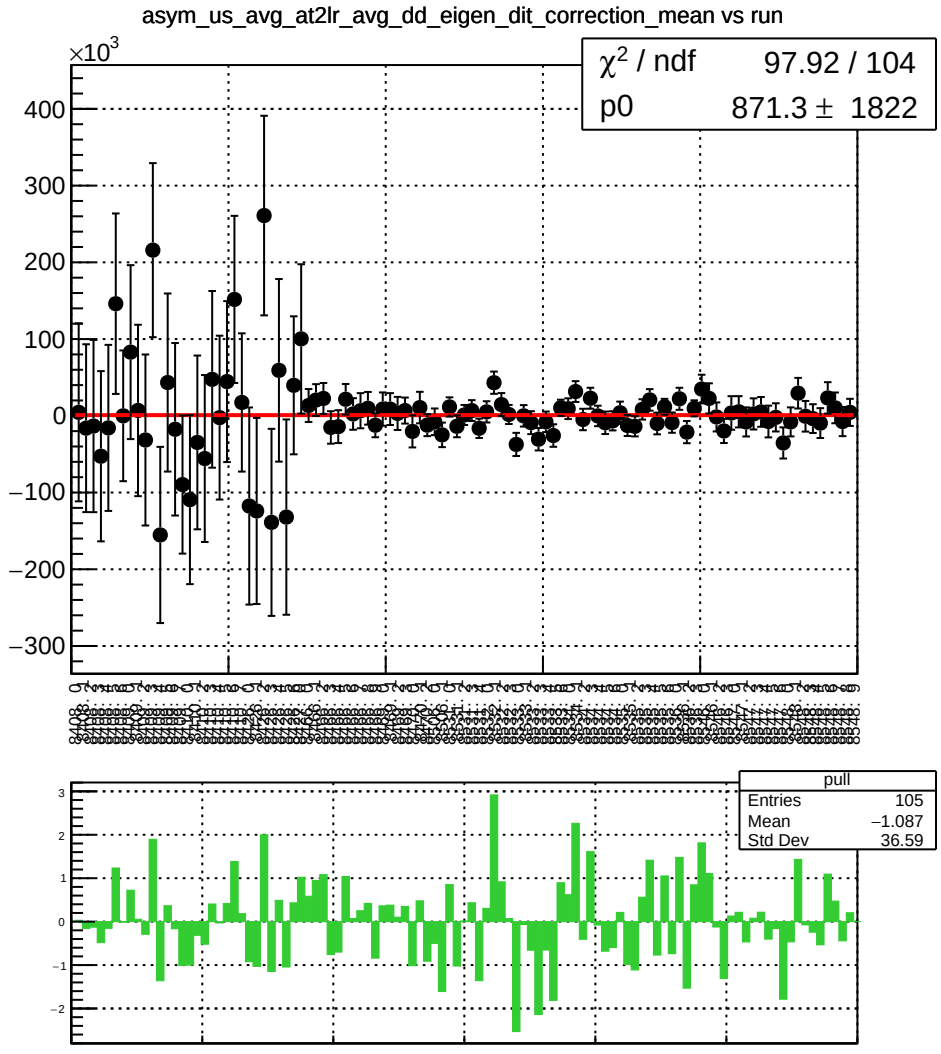

pull1D
Entries 105
Mean 0.006928
Std Dev 0.9657

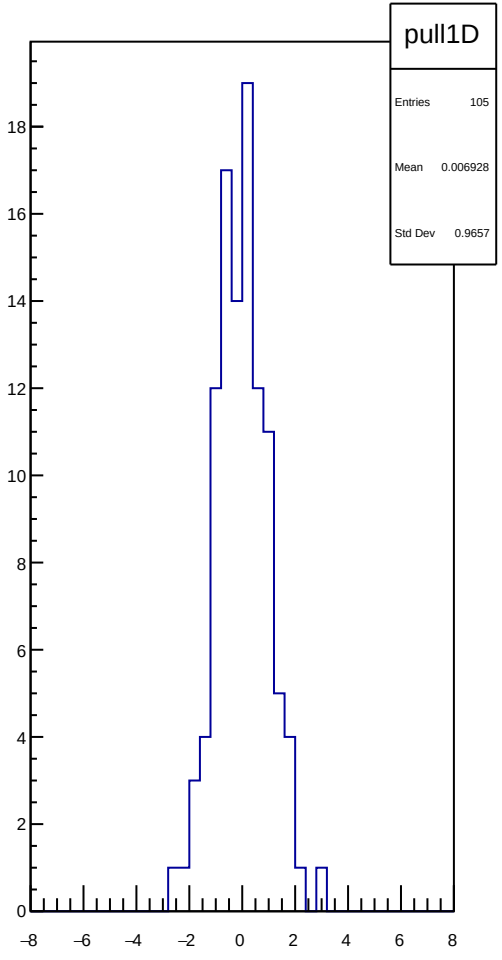

asym_us_avg_at2lr_avg_dd_dit_correction_rms vs run
χ² / ndf 4.905e+05 / 104
p0 1607 ± 1.288
12000
10000
8000
6000
4000
2000

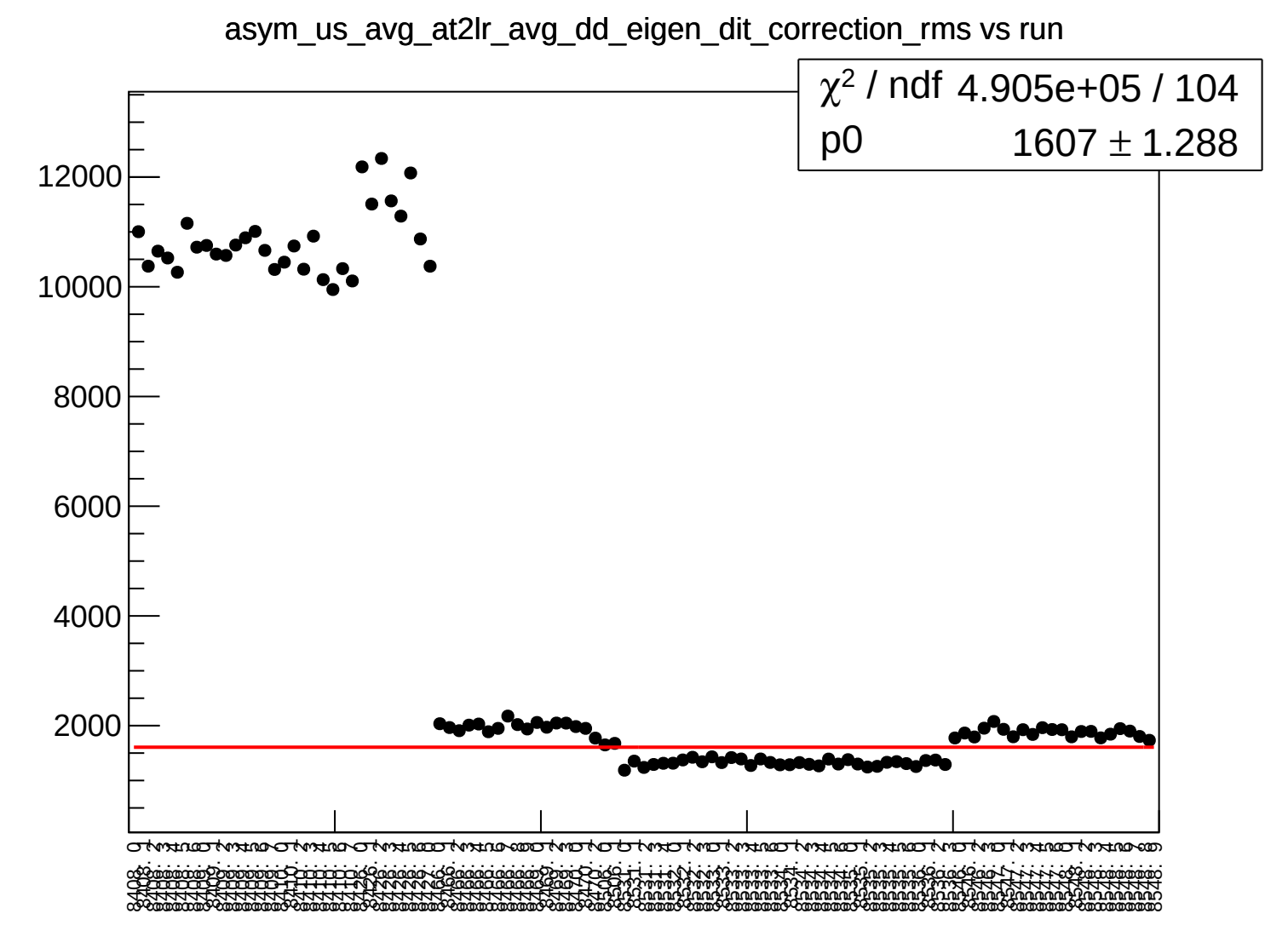

eigen_dit_asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ² / ndf 89.47 / 104
p0 −707.6 ± 3055
1000
500
0
−500
−1000
pull
Entries 105
Mean 514.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

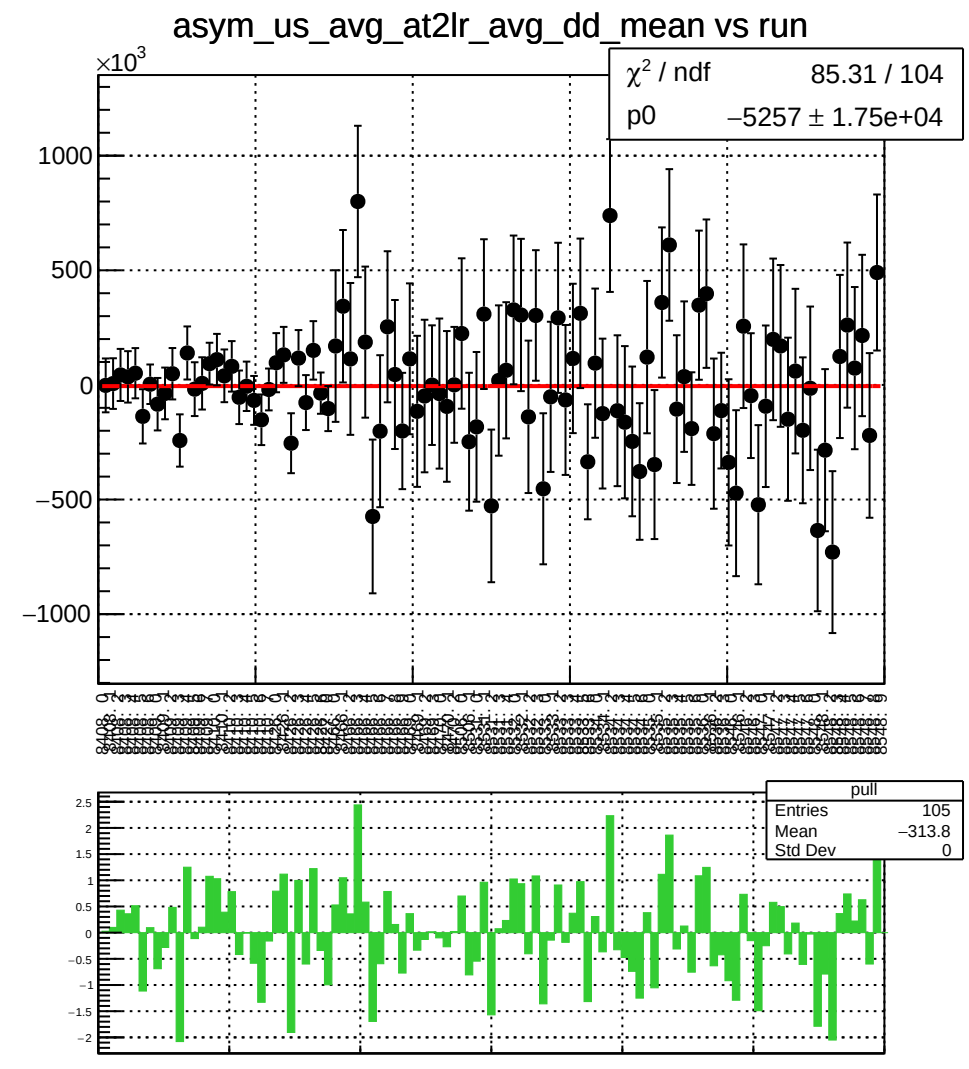

pull1D
Entries 105
Mean −0.004836
Std Dev 0.9231
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

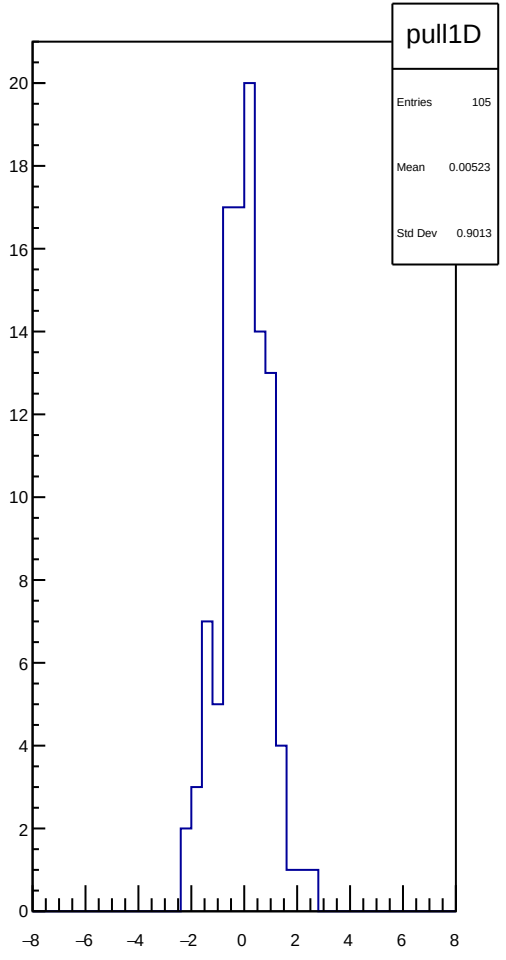

eigen_dit_asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 1.286e+06 / 104
p0 1884 ± 2.16
35000
30000
25000
20000
15000
10000
5000

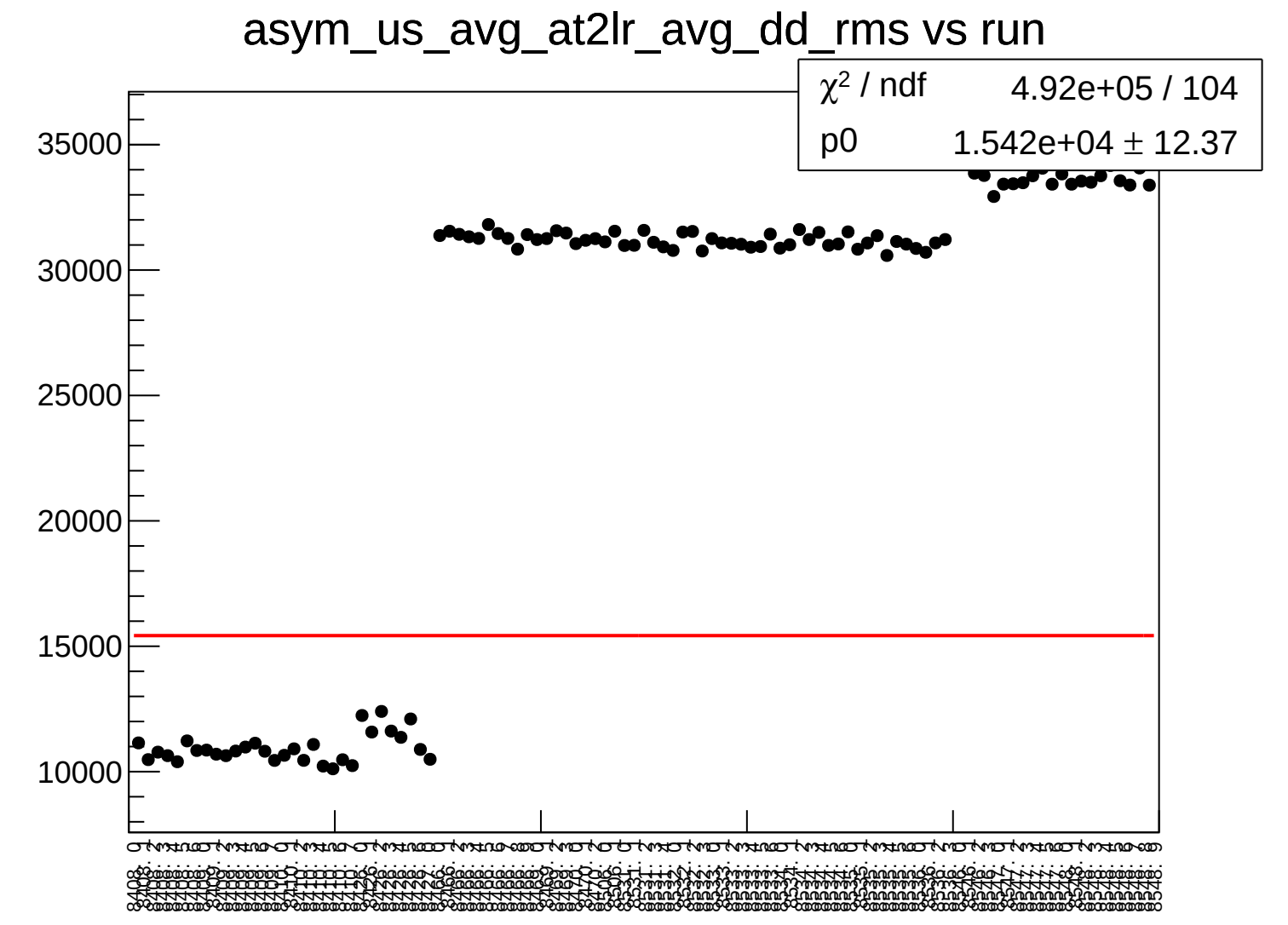

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 97.92 / 104
p0 871.3 ± 1822
400
300
200
100
0
−100
−200
−300
pull
Entries 105
Mean −1.087
Std Dev 36.59
3
2
1
0
−1
−2

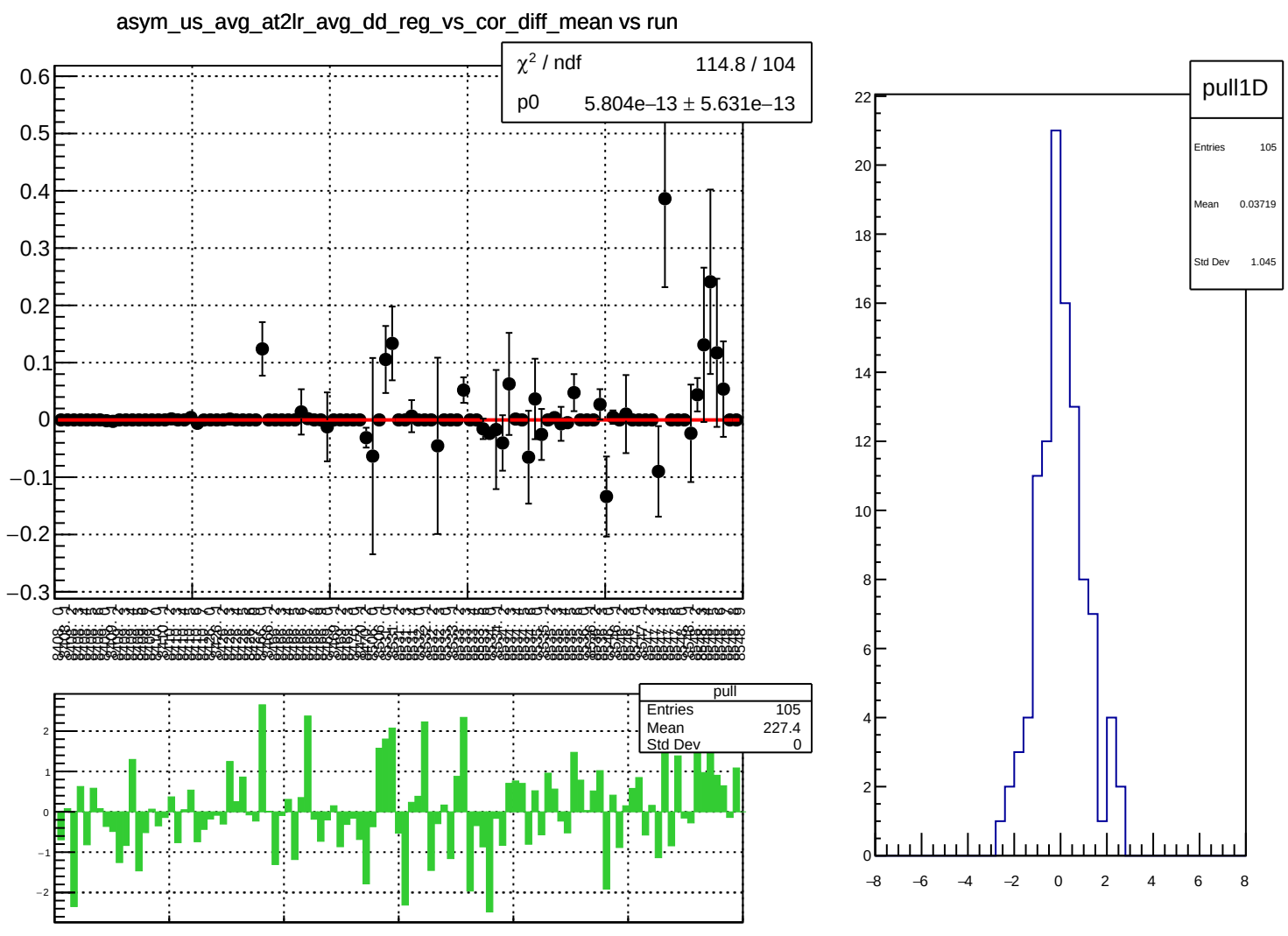

pull1D
Entries 105
Mean 0.006928
Std Dev 0.9657
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

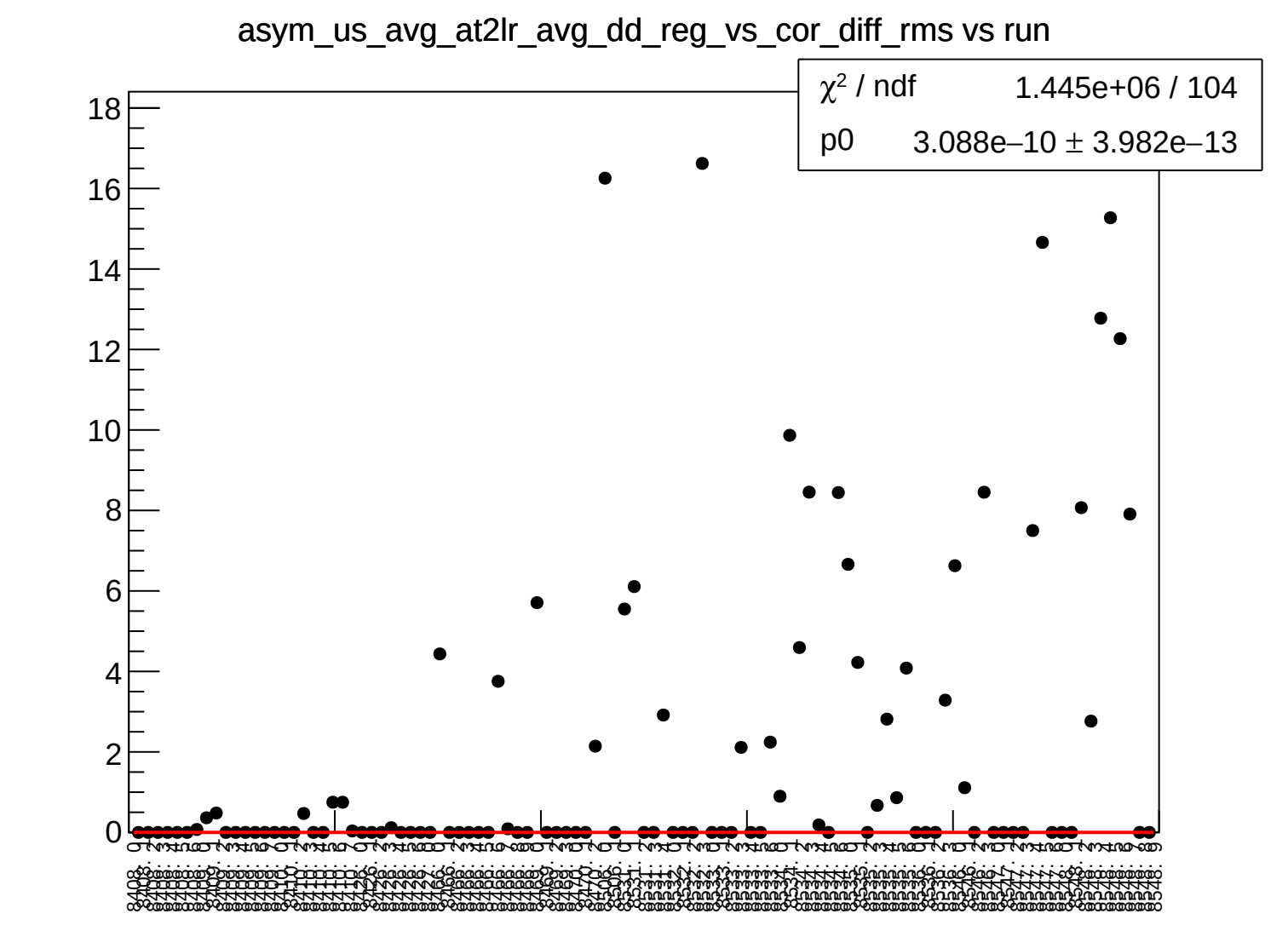

asym_us_avg_at2lr_avg_dd_eigen_dit_correction_rms vs run
χ² / ndf 4.905e+05 / 104
p0 1607 ± 1.288
12000
10000
8000
6000
4000
2000

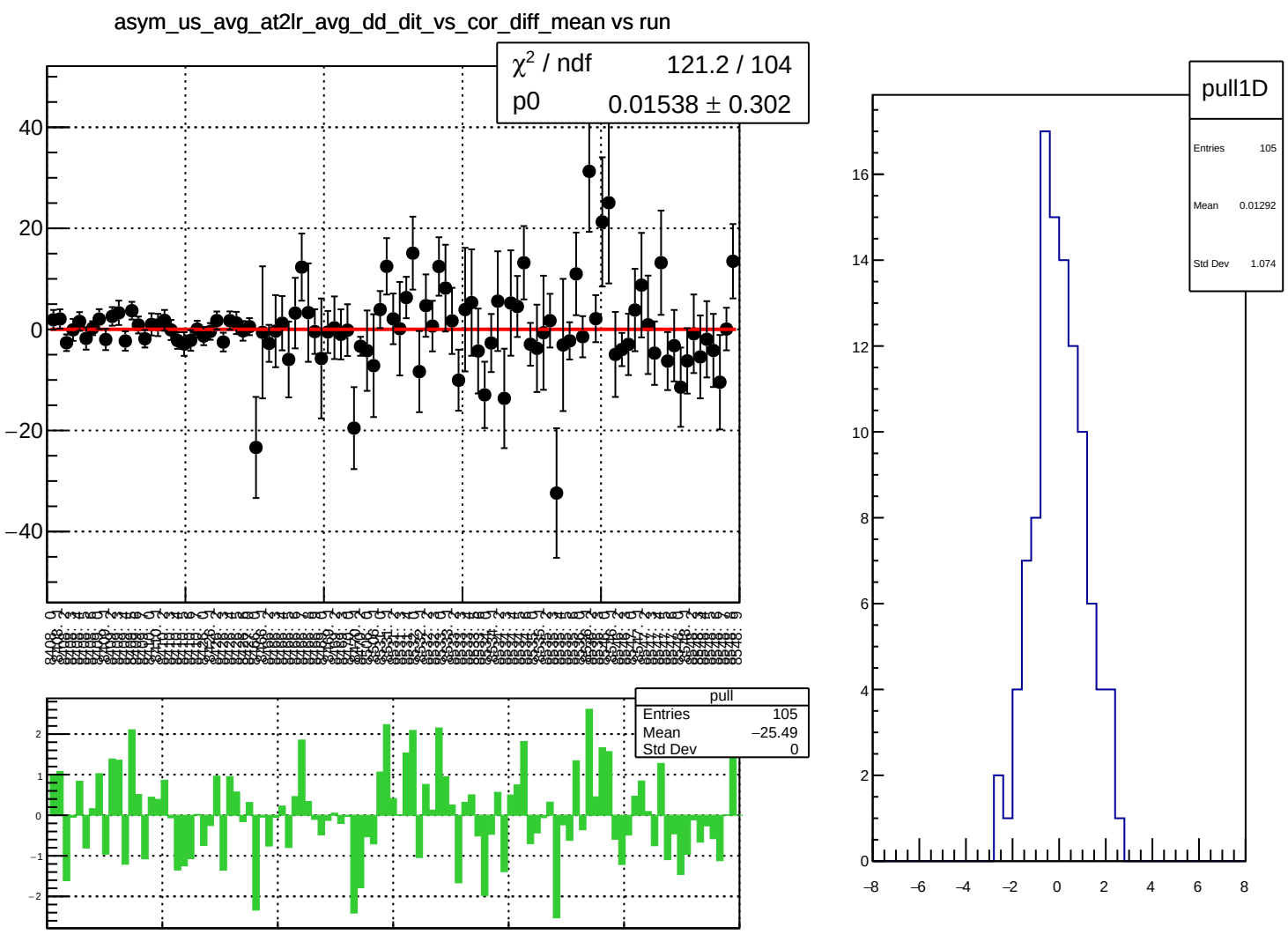

asym_us_avg_at2lr_avg_dd_mean vs run
×10^3
χ² / ndf 85.31 / 104
p0 −5257 ± 1.75e+04
1000
500
0
−500
−1000
pull
Entries 105
Mean −313.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

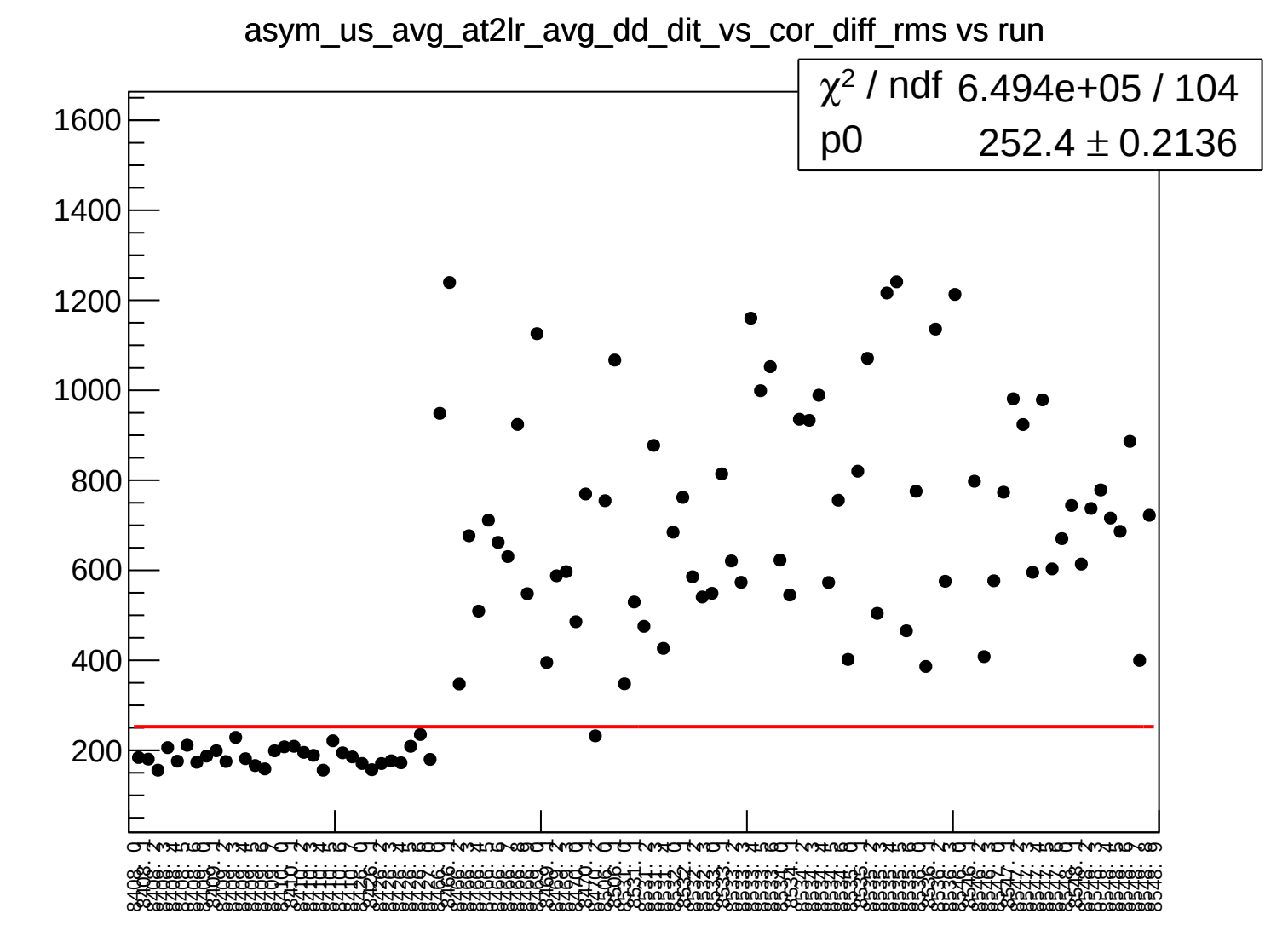

pull1D
Entries 105
Mean 0.00523
Std Dev 0.9013
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

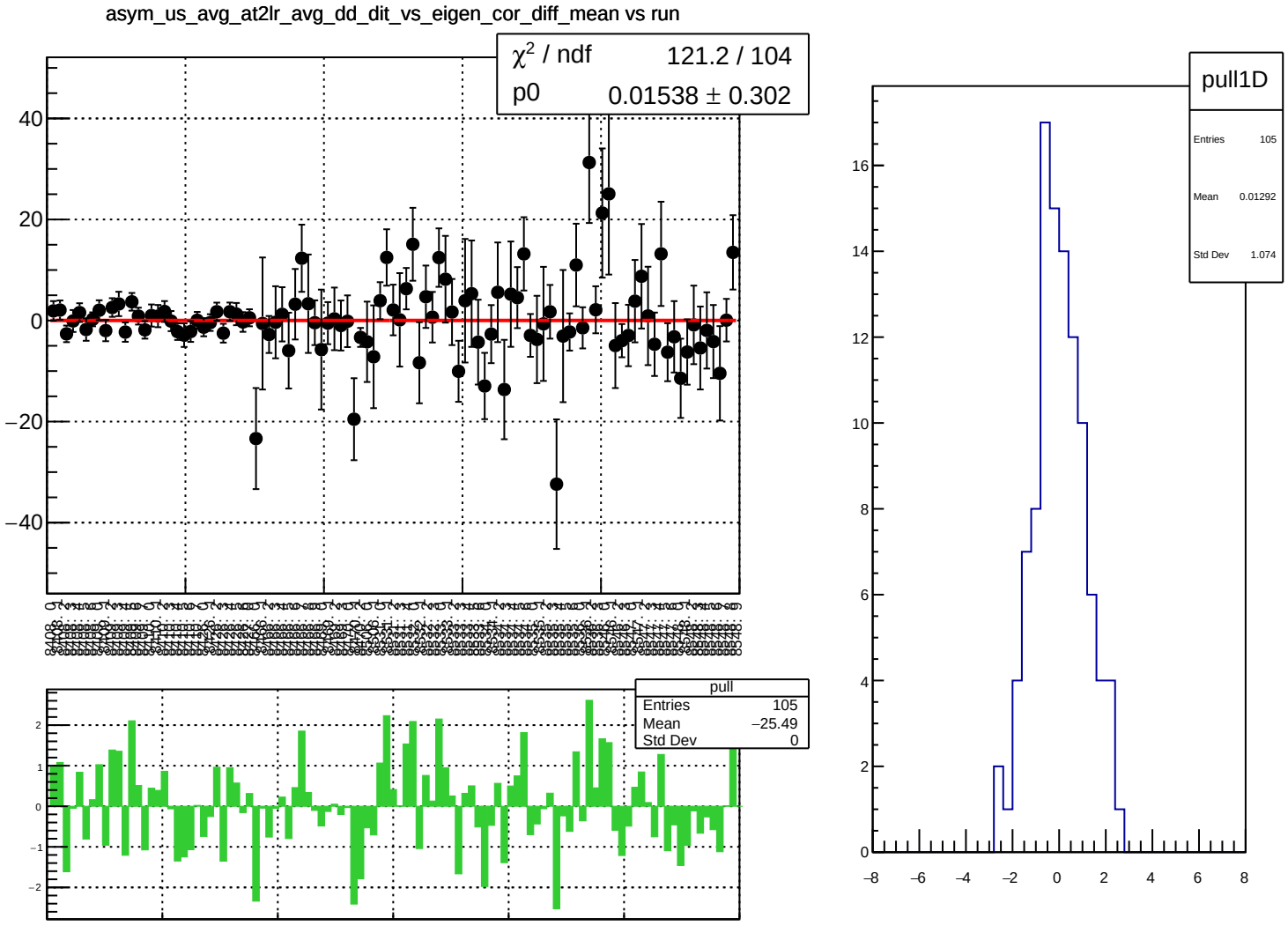

asym_us_avg_at2lr_avg_dd_rms vs run
χ² / ndf 4.92e+05 / 104
p0 1.542e+04 ± 12.37
35000
30000
25000
20000
15000
10000

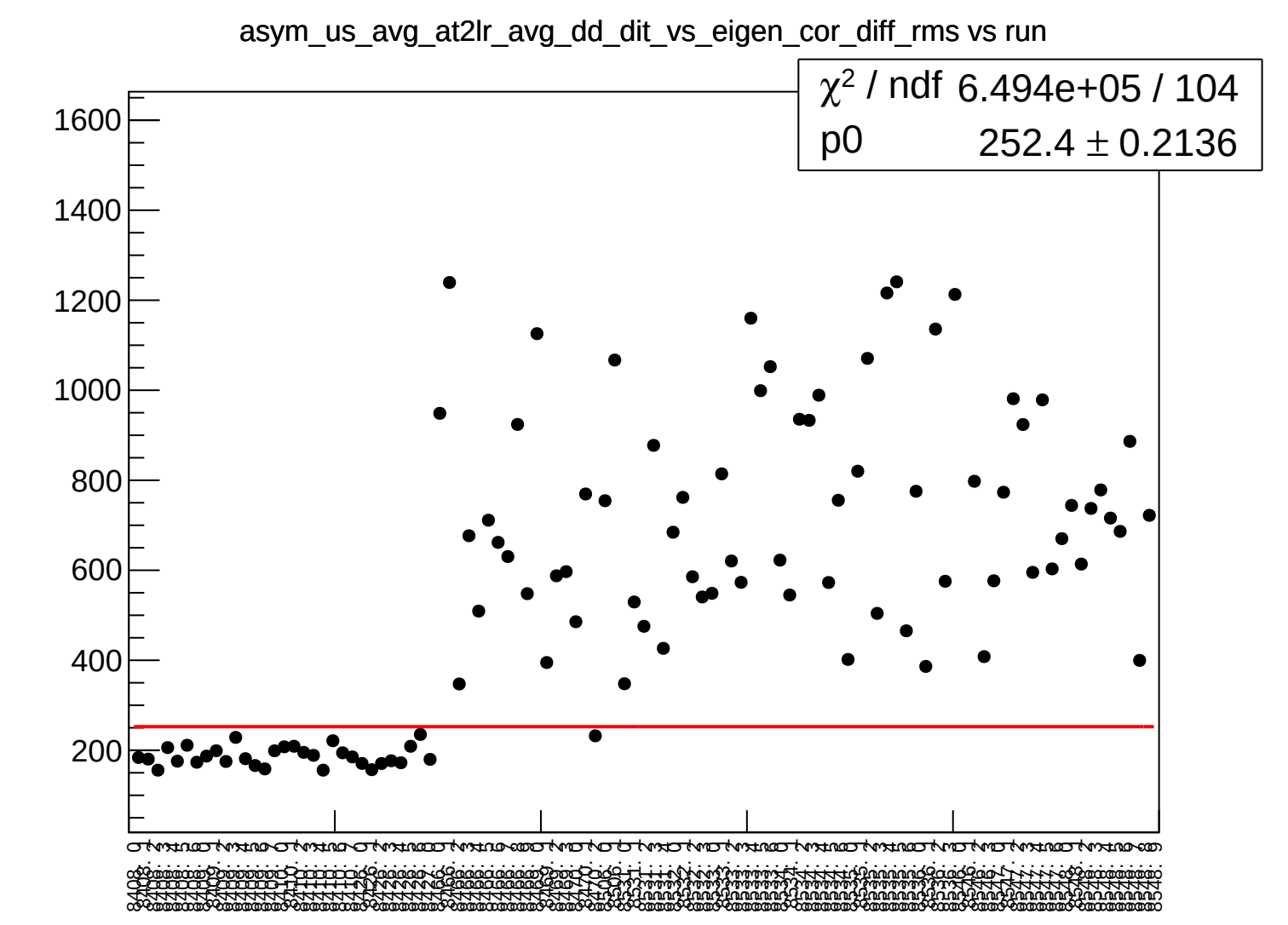

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 114.8 / 104
p0 5.804e−13 ± 5.631e−13
pull
Entries 105
Mean 227.4
Std Dev 0
pull1D
Entries 105
Mean 0.03719
Std Dev 1.045

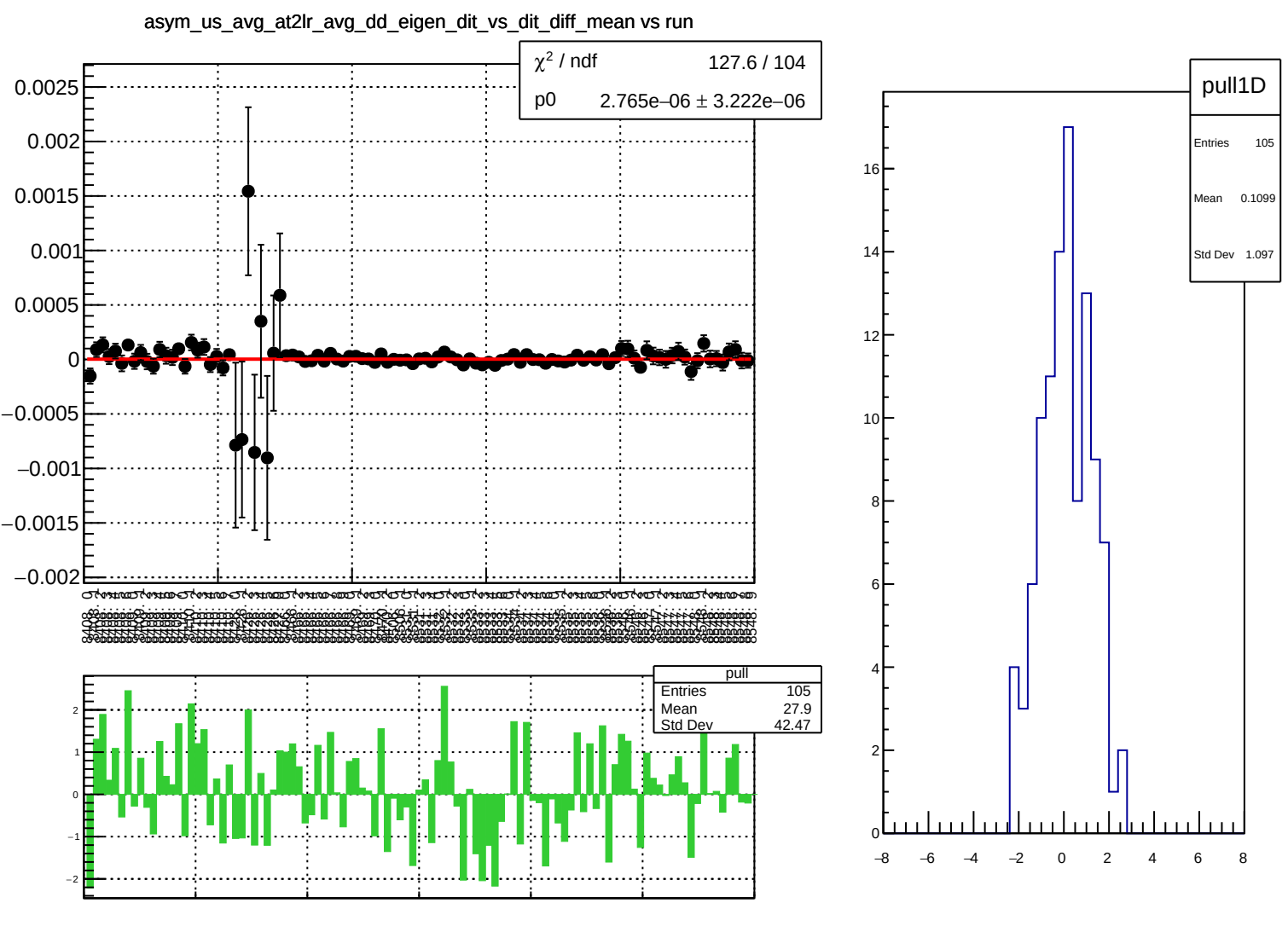

asym_us_avg_at2lr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.445e+06 / 104
p0 3.088e−10 ± 3.982e−13
18
16
14
12
10
8
6
4
2
0

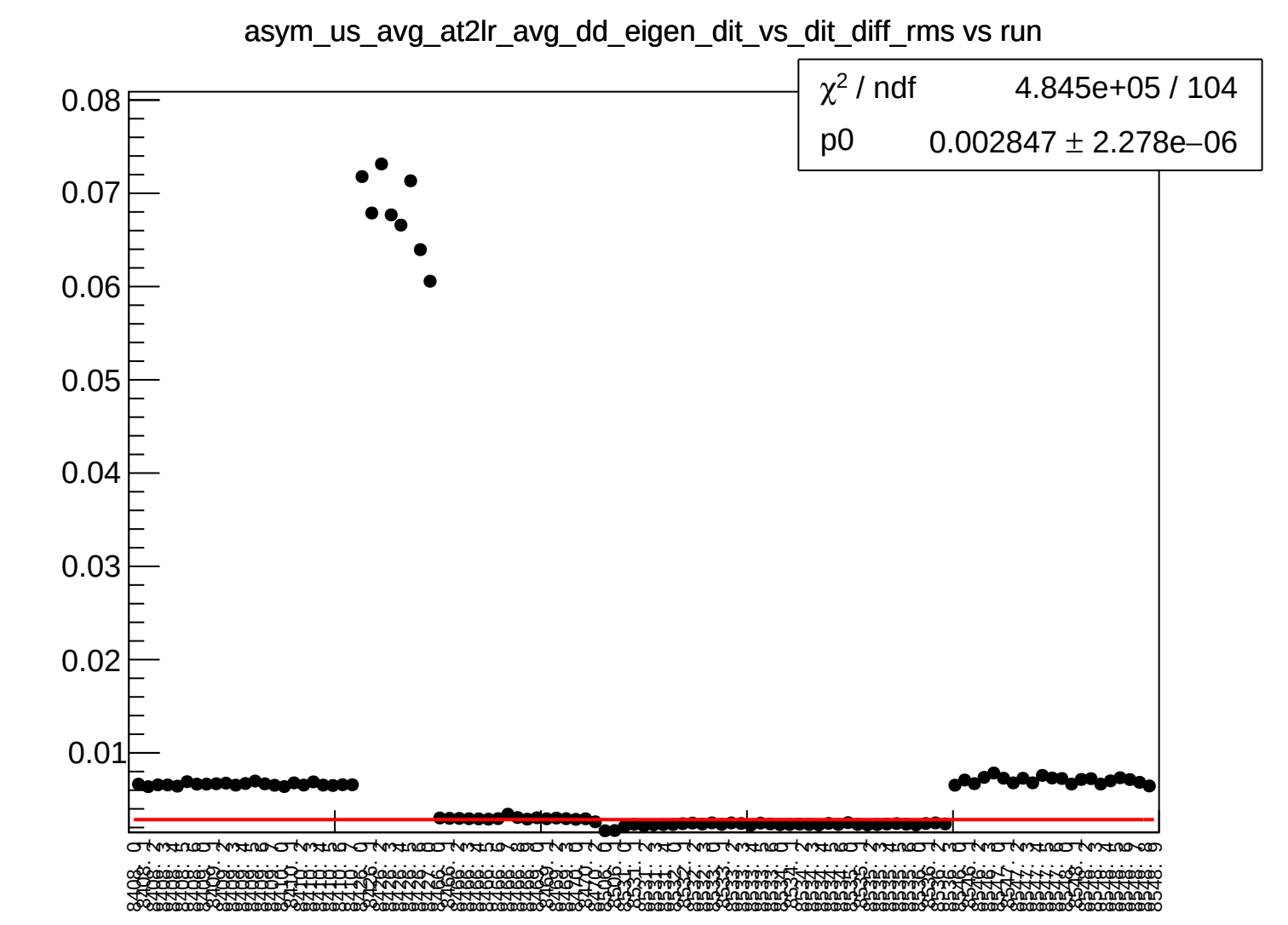

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 121.2 / 104
p0 0.01538 ± 0.302
40
20
0
−20
−40
pull
Entries 105
Mean −25.49
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.01292
Std Dev 1.074
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

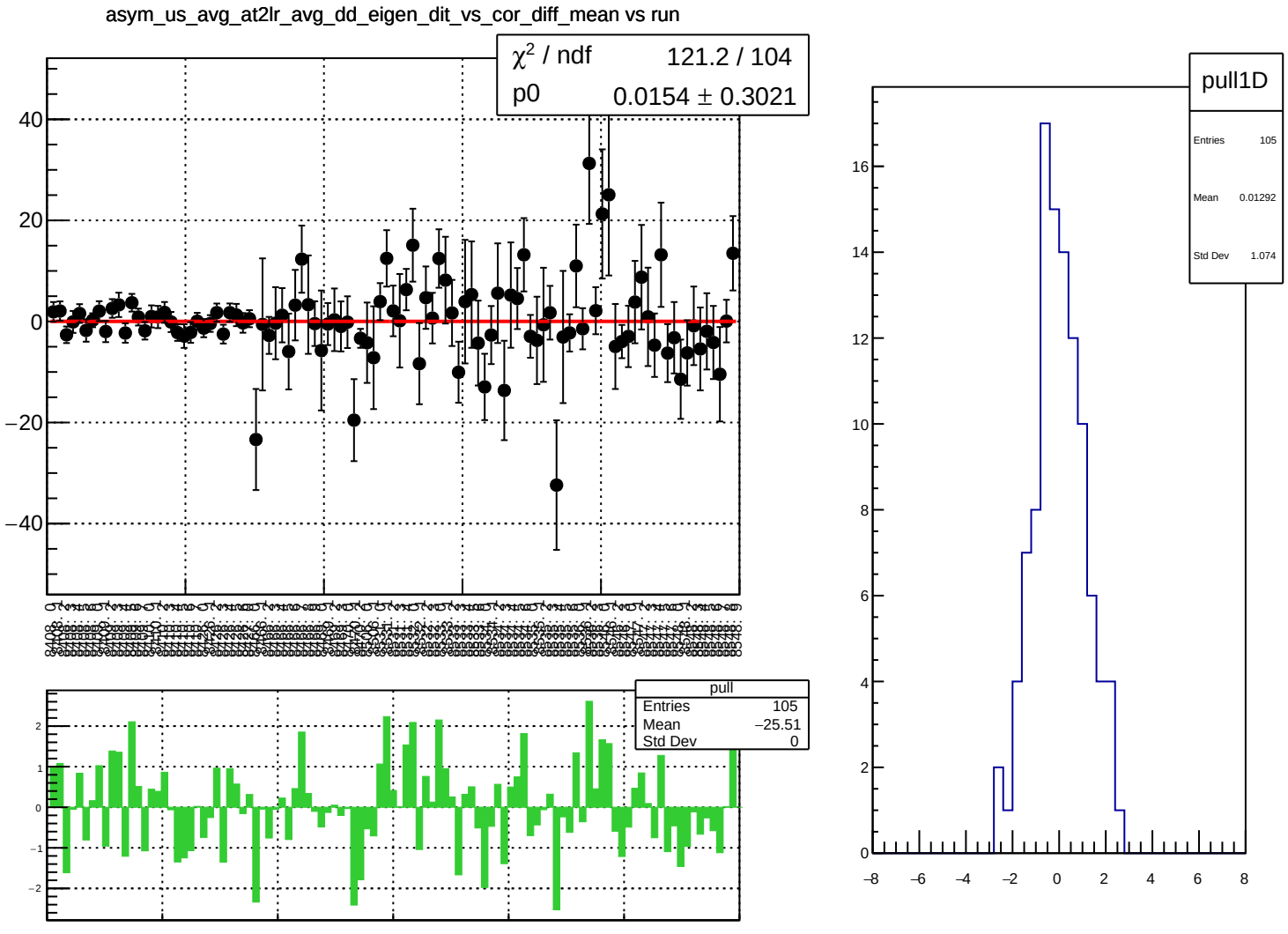

asym_us_avg_at2lr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.494e+05 / 104
p0 252.4 ± 0.2136
1600
1400
1200
1000
800
600
400
200

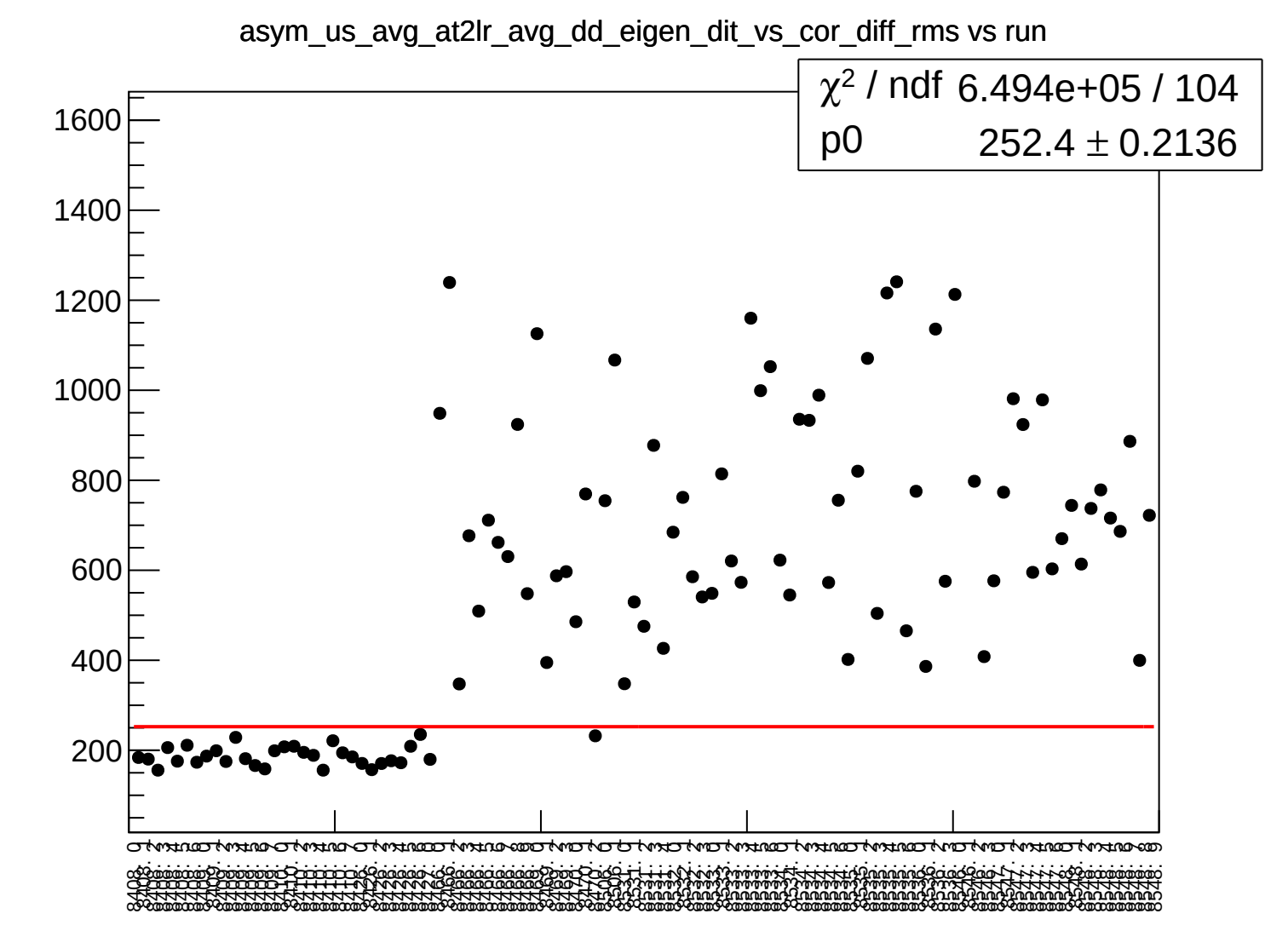

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 121.2 / 104
p0 0.01538 ± 0.302
40
20
0
−20
−40
pull
Entries 105
Mean −25.49
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.01292
Std Dev 1.074
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

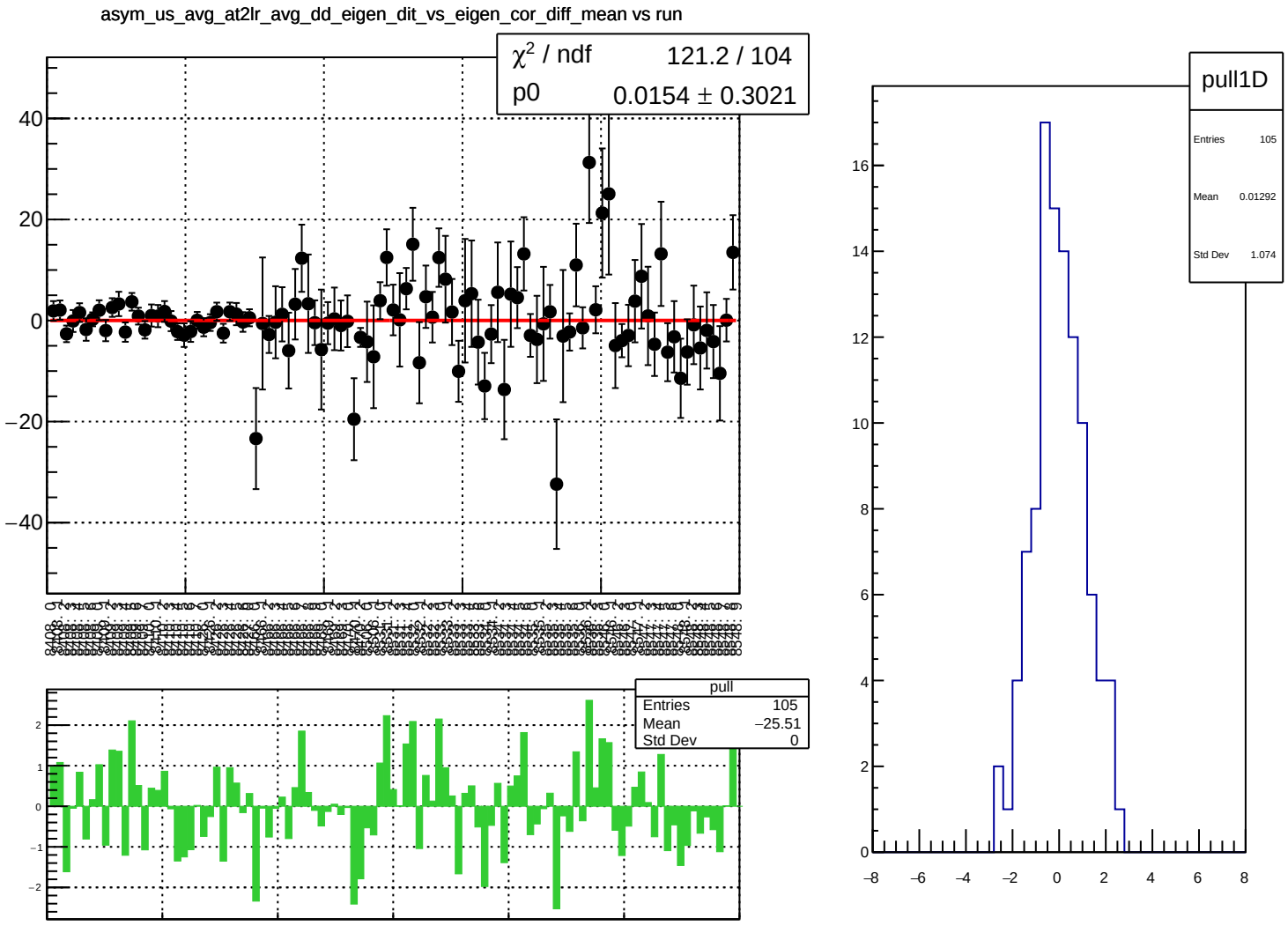

asym_us_avg_at2lr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.494e+05 / 104
p0 252.4 ± 0.2136
1600
1400
1200
1000
800
600
400
200

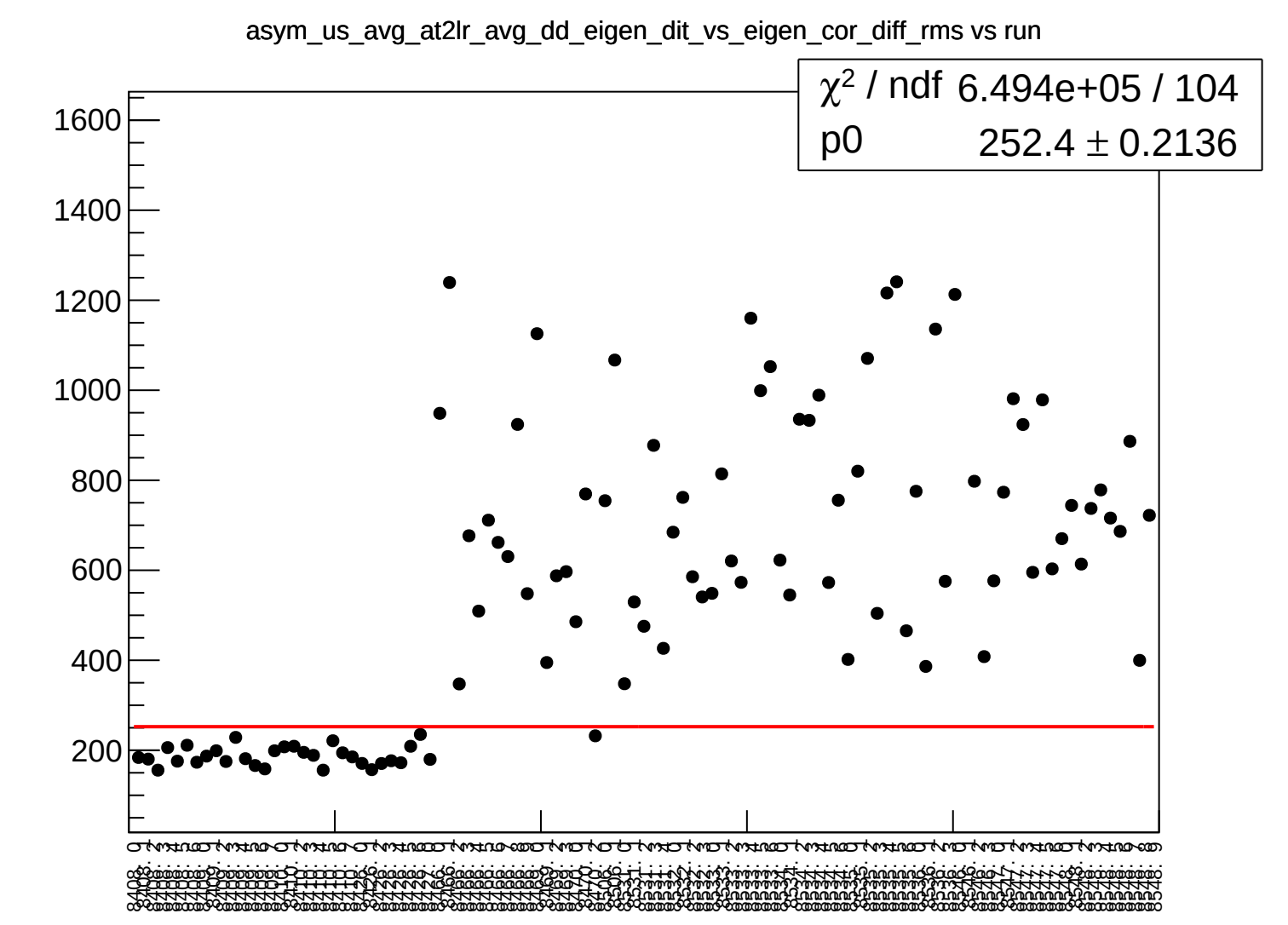

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 127.6 / 104
p0 2.765e−06 ± 3.222e−06
0.0025
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 105
Mean 27.9
Std Dev 42.47
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.1099
Std Dev 1.097
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

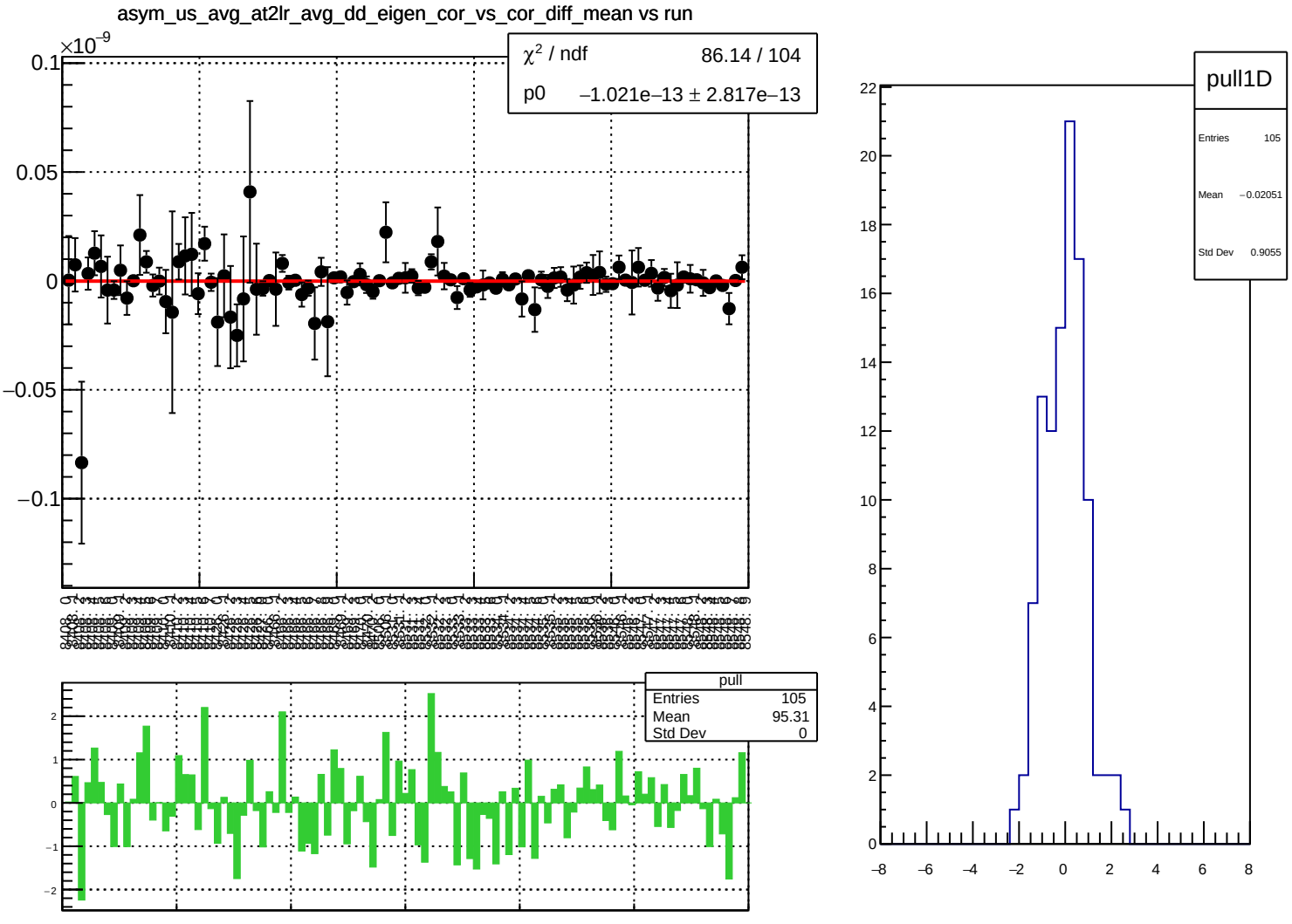

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.845e+05 / 104
p0 0.002847 ± 2.278e−06
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

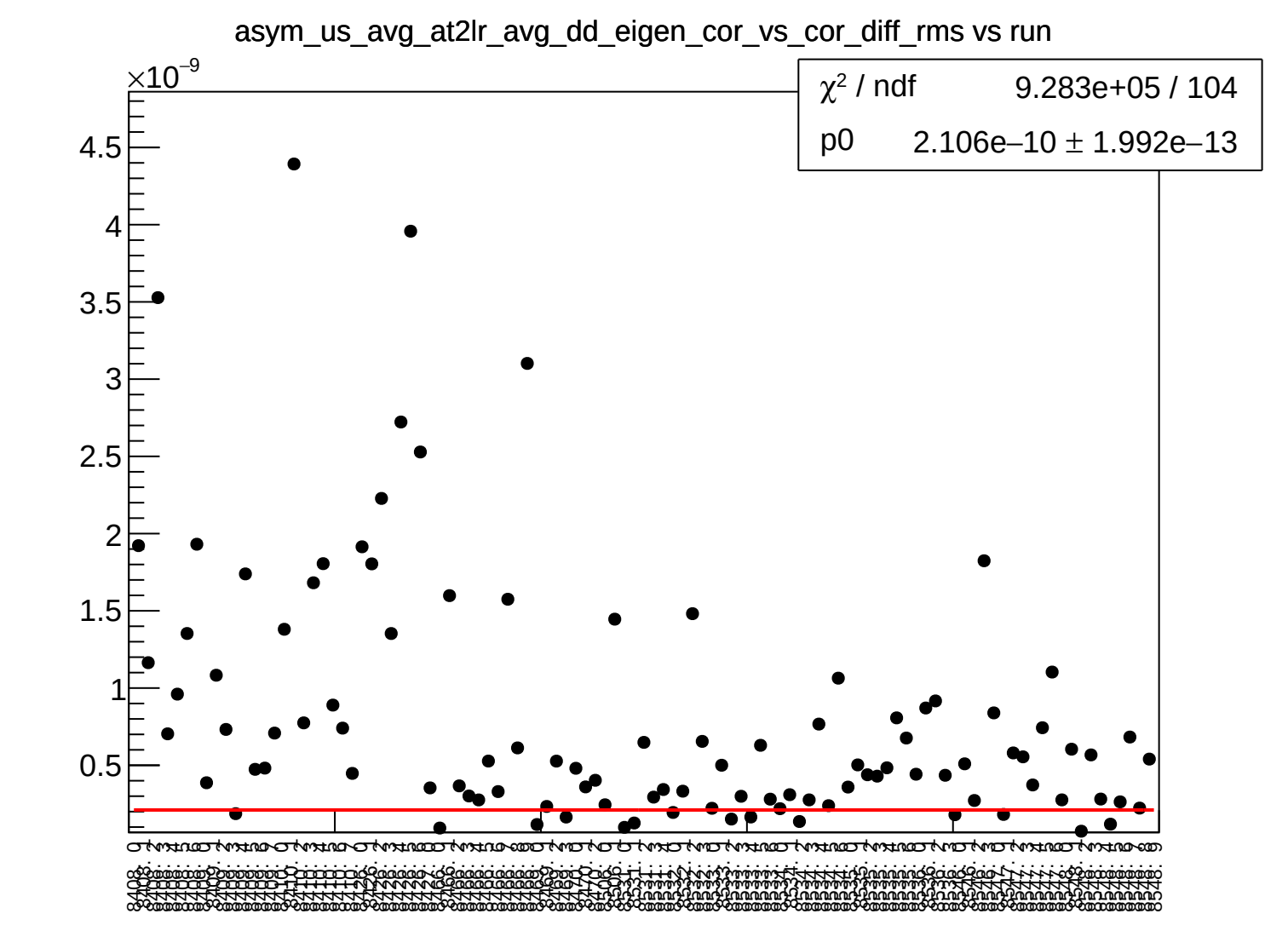

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 121.2 / 104
p0 0.0154 ± 0.3021
40
20
0
−20
−40
pull
Entries 105
Mean −25.51
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.01292
Std Dev 1.074
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

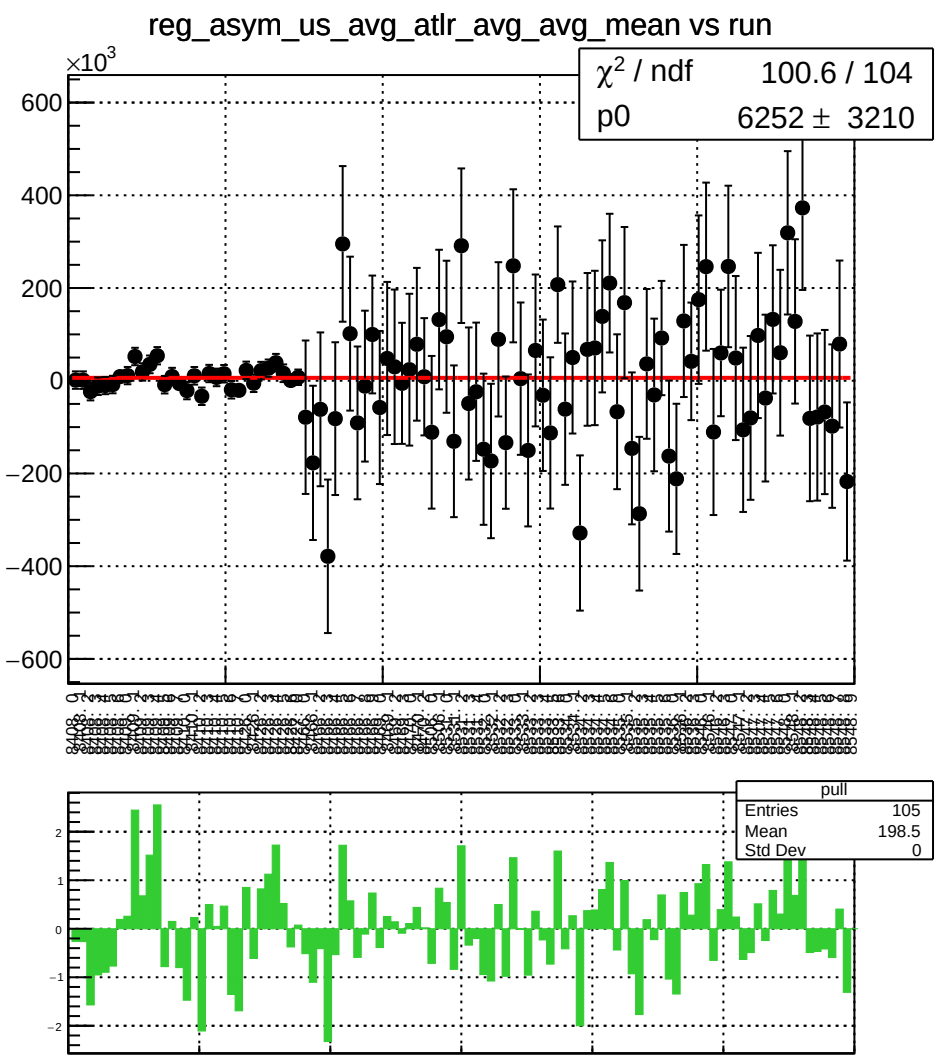

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.494e+05 / 104
p0 252.4 ± 0.2136
1600
1400
1200
1000
800
600
400
200

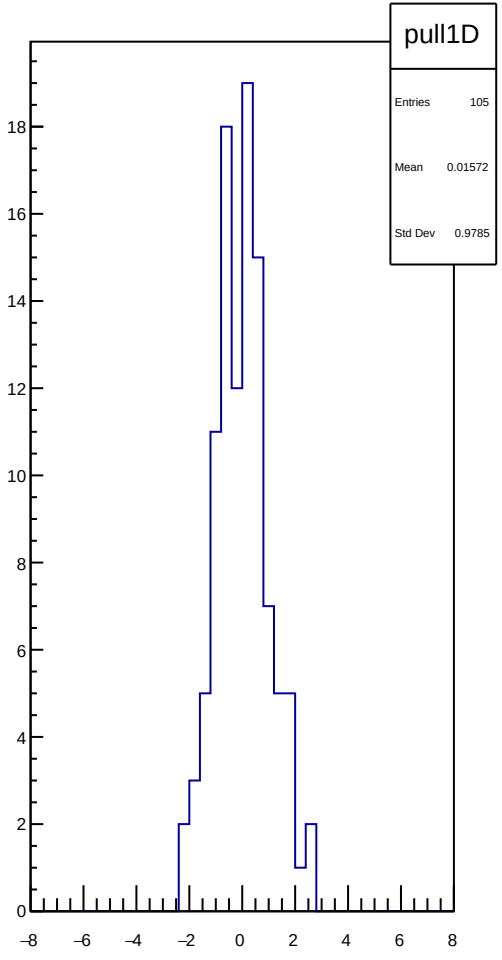

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 121.2 / 104
p0 0.0154 ± 0.3021
40
20
0
−20
−40
pull
Entries 105
Mean −25.51
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.01292
Std Dev 1.074
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

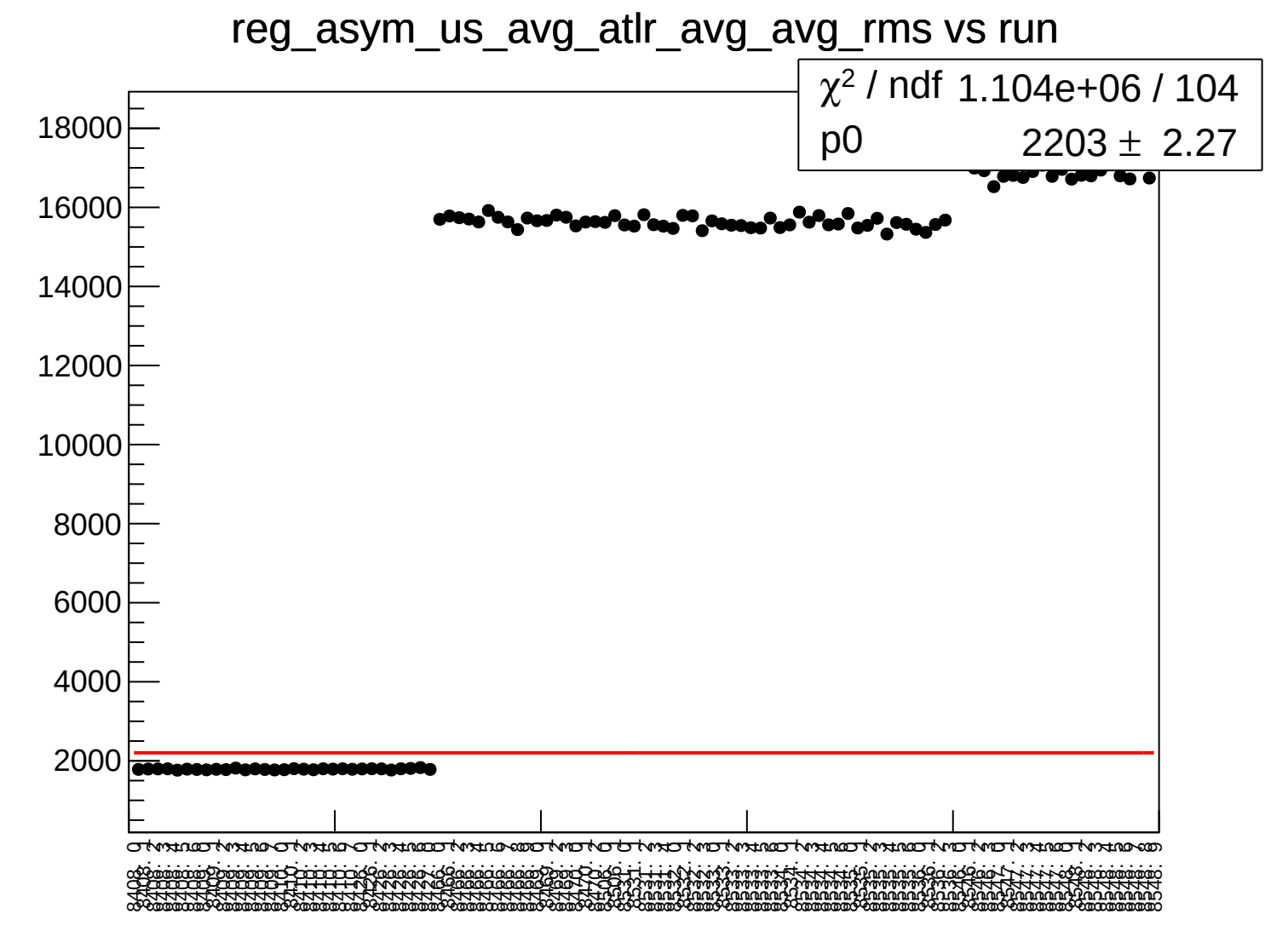

asym_us_avg_at2lr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.494e+05 / 104
p0 252.4 ± 0.2136
1600
1400
1200
1000
800
600
400
200

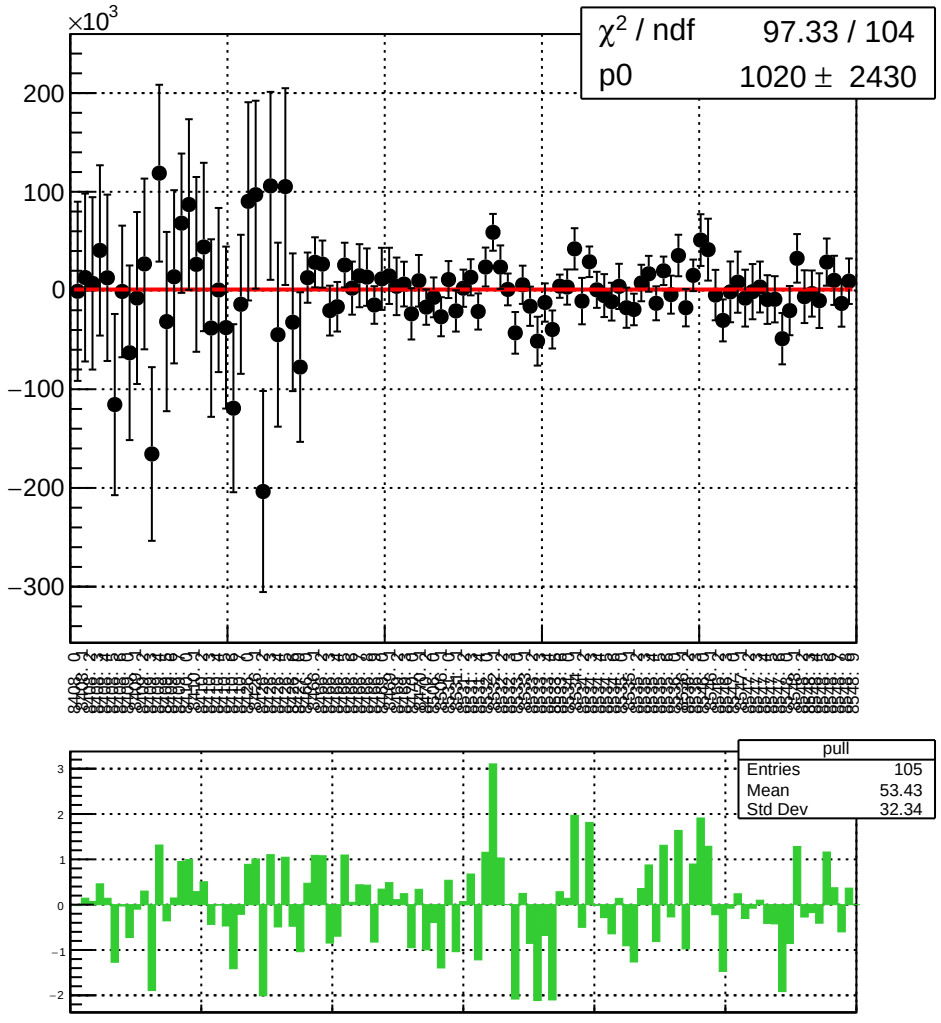

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 86.14 / 104
p0 −1.021e−13 ± 2.817e−13
pull
Entries 105
Mean 95.31
Std Dev 0
pull1D
Entries 105
Mean −0.02051
Std Dev 0.9055

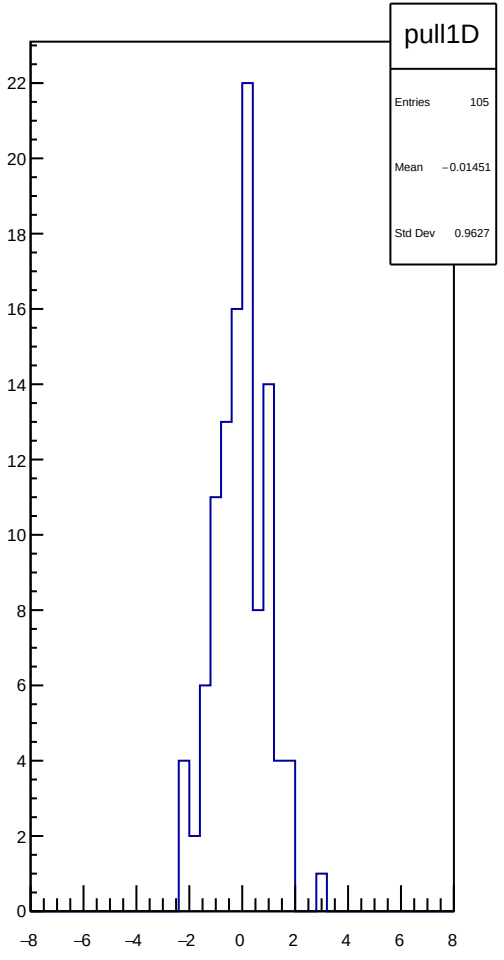

asym_us_avg_at2lr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.283e+05 / 104
p0 2.106e−10 ± 1.992e−13
4.5
4
3.5
3
2.5
2
1.5
1
0.5

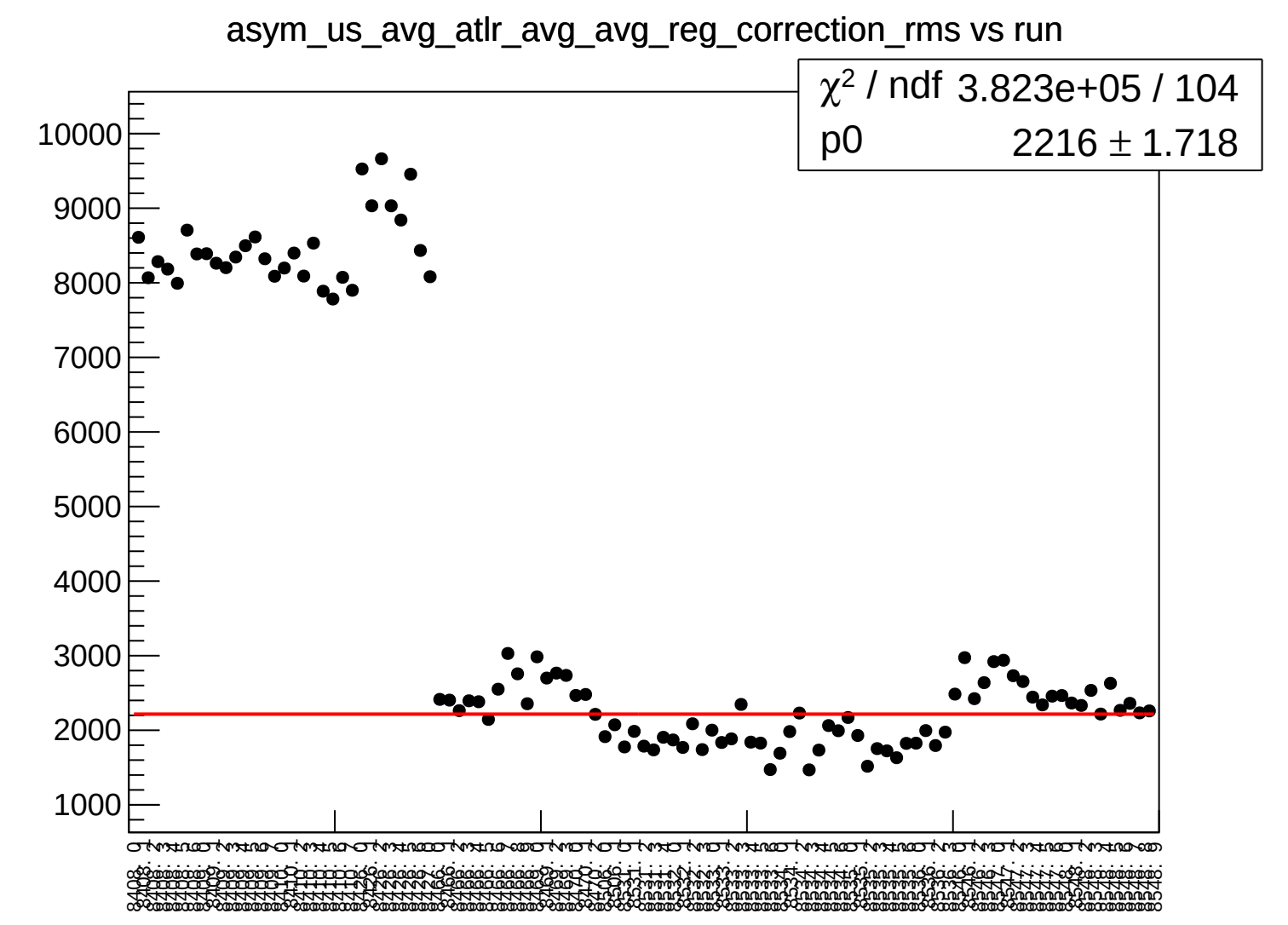

reg_asym_us_avg_atlr_avg_avg_mean vs run
×10^3
χ^2 / ndf 100.6 / 104
p0 6252 ± 3210
600
400
200
0
−200
−400
−600
pull
Entries 105
Mean 198.5
Std Dev 0
2
1
0
−1
−2

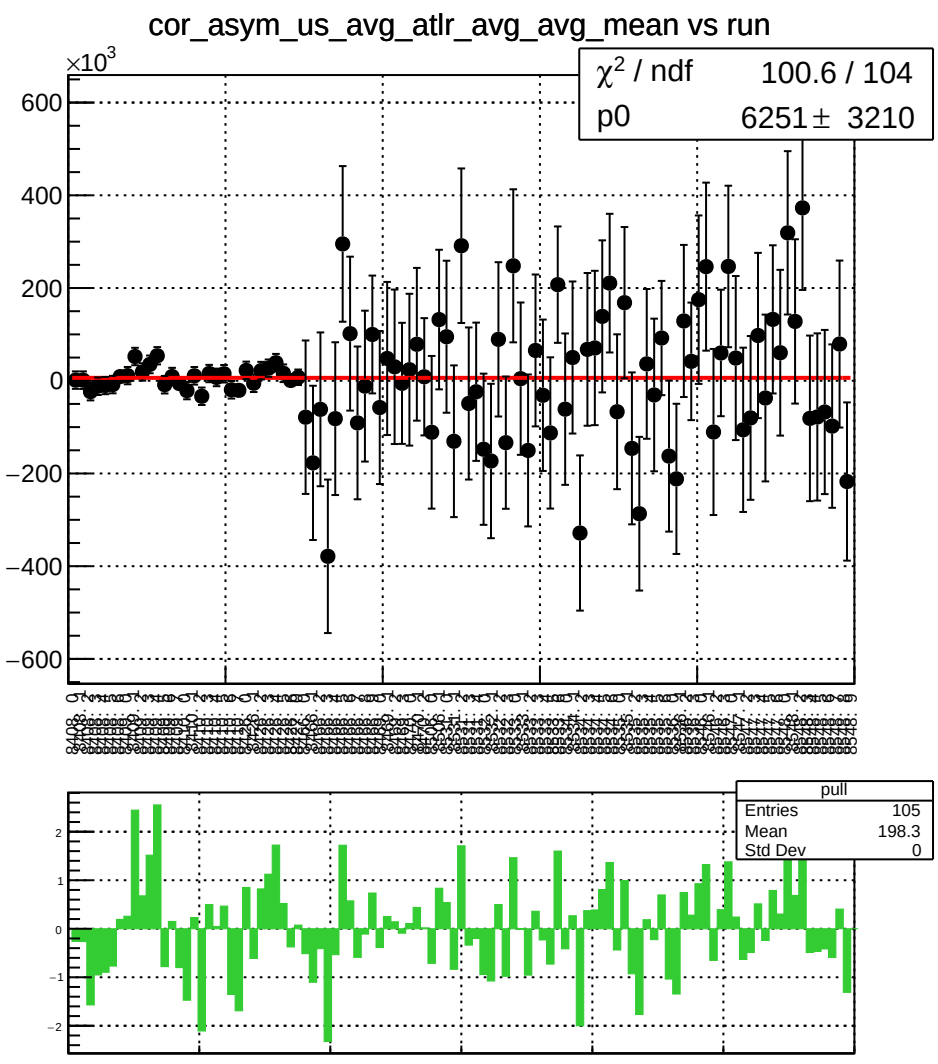

pull1D
Entries 105
Mean 0.01572
Std Dev 0.9785
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

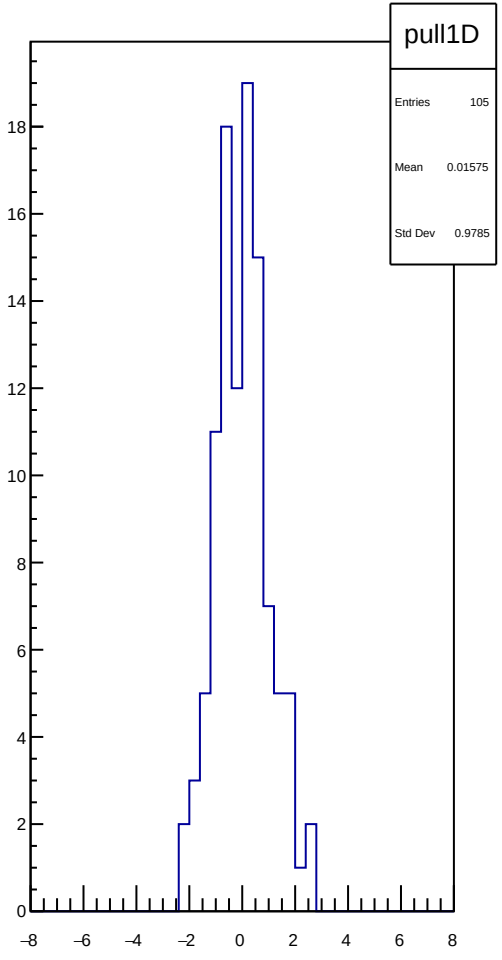

reg_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 1.104e+06 / 104
p0 2203 ± 2.27
18000
16000
14000
12000
10000
8000
6000
4000
2000

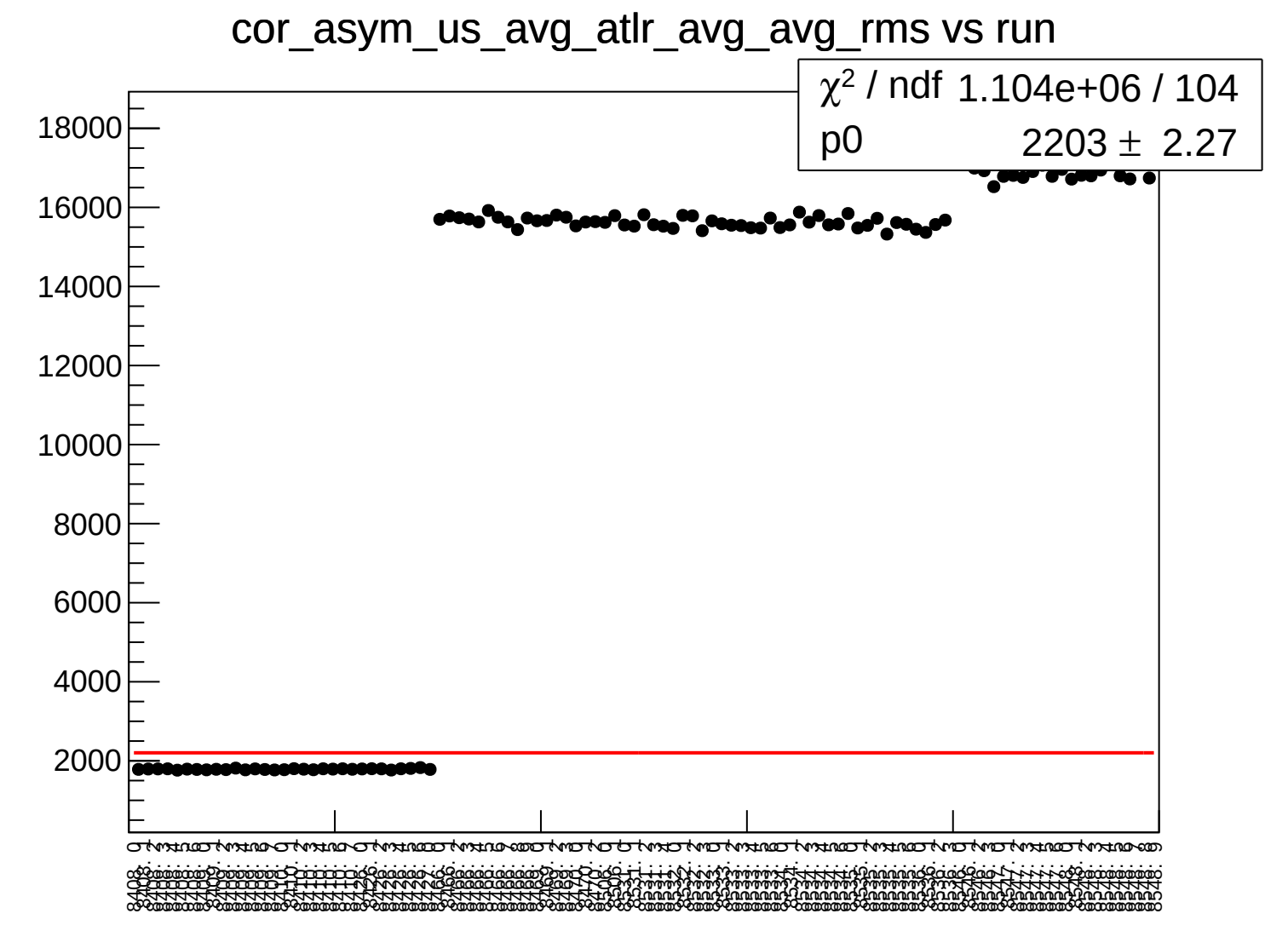

asym_us_avg_atlr_avg_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 97.33 / 104
p0 1020 ± 2430
200
100
0
−100
−200
−300
pull
Entries 105
Mean 53.43
Std Dev 32.34
3
2
1
0
−1
−2

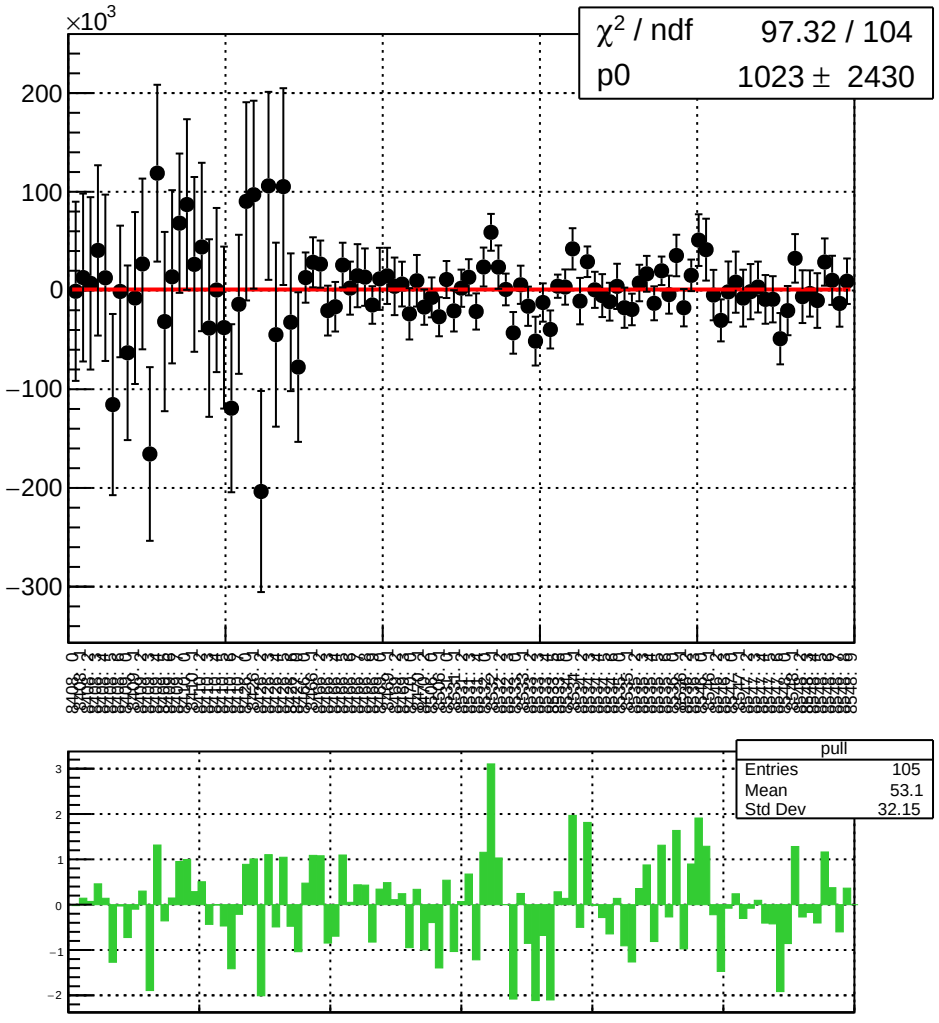

pull1D
Entries 105
Mean −0.01451
Std Dev 0.9627
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

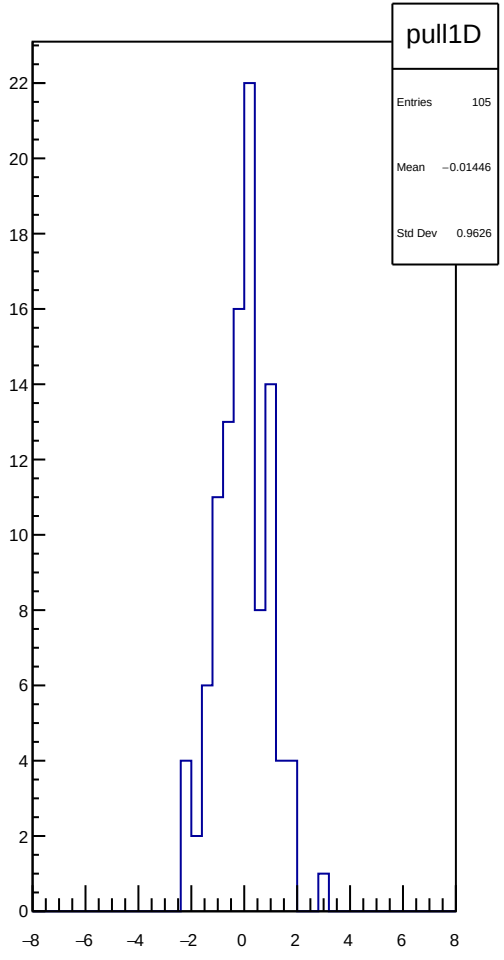

asym_us_avg_atlr_avg_avg_reg_correction_rms vs run
χ² / ndf 3.823e+05 / 104
p0 2216 ± 1.718
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000

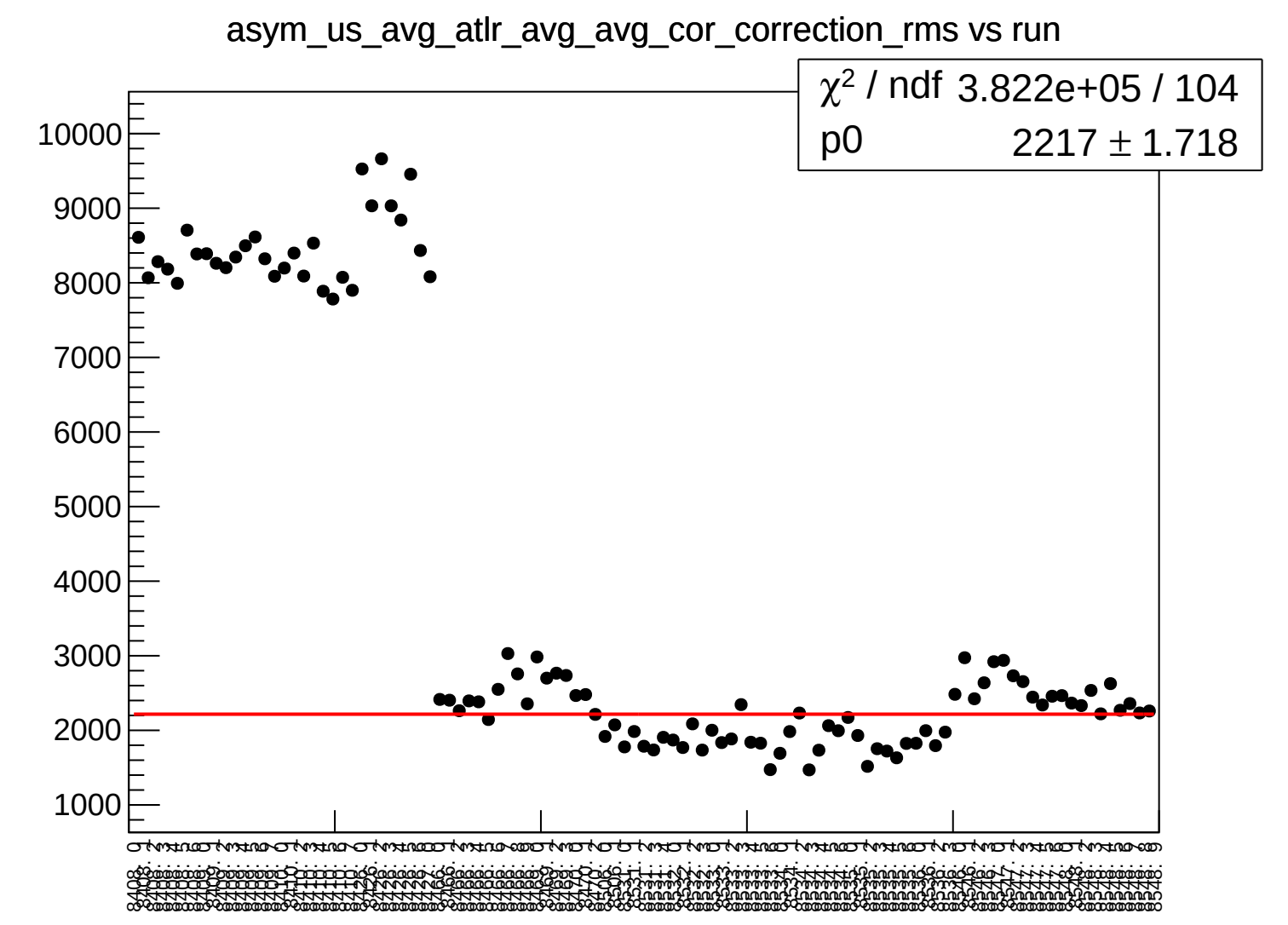

cor_asym_us_avg_atlr_avg_avg_mean vs run
×10^3
χ^2 / ndf 100.6 / 104
p0 6251 ± 3210
600
400
200
0
−200
−400
−600
pull
Entries 105
Mean 198.3
Std Dev 0
2
1
0
−1
−2

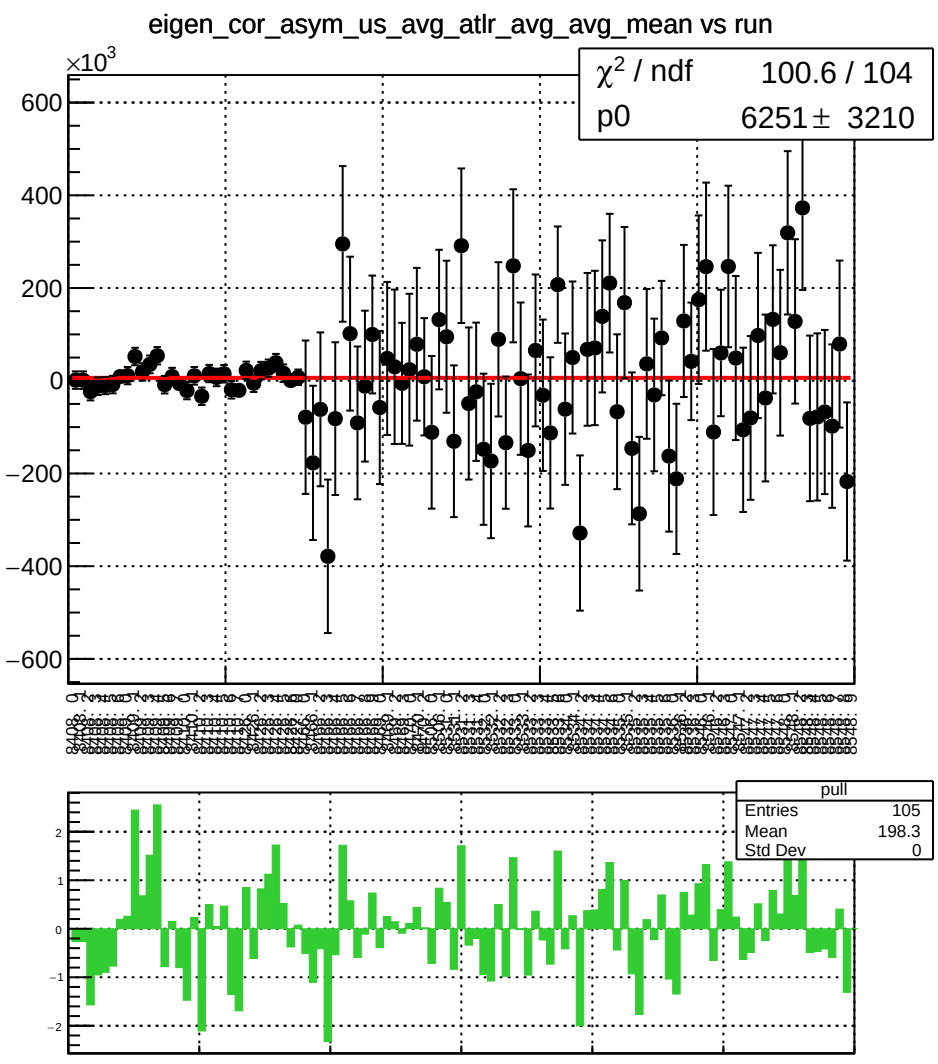

pull1D
Entries 105
Mean 0.01575
Std Dev 0.9785
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

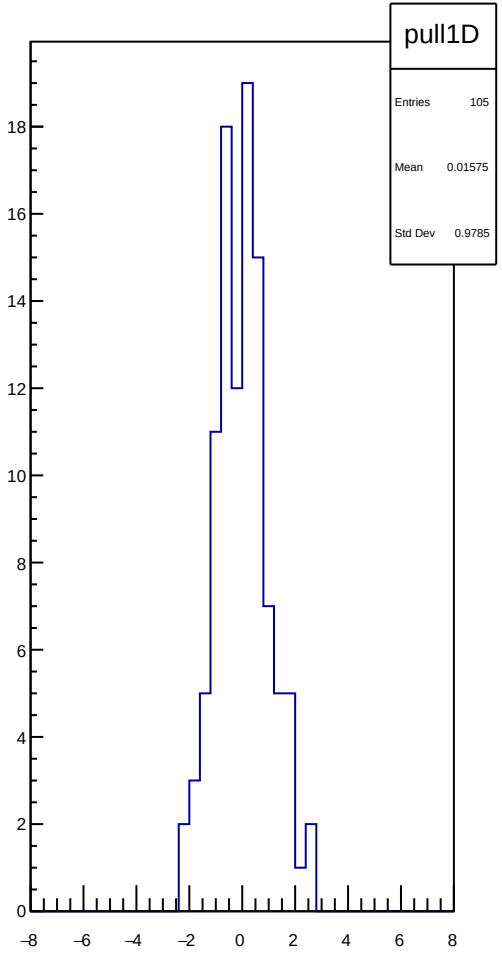

cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 1.104e+06 / 104
p0 2203 ± 2.27
18000
16000
14000
12000
10000
8000
6000
4000
2000

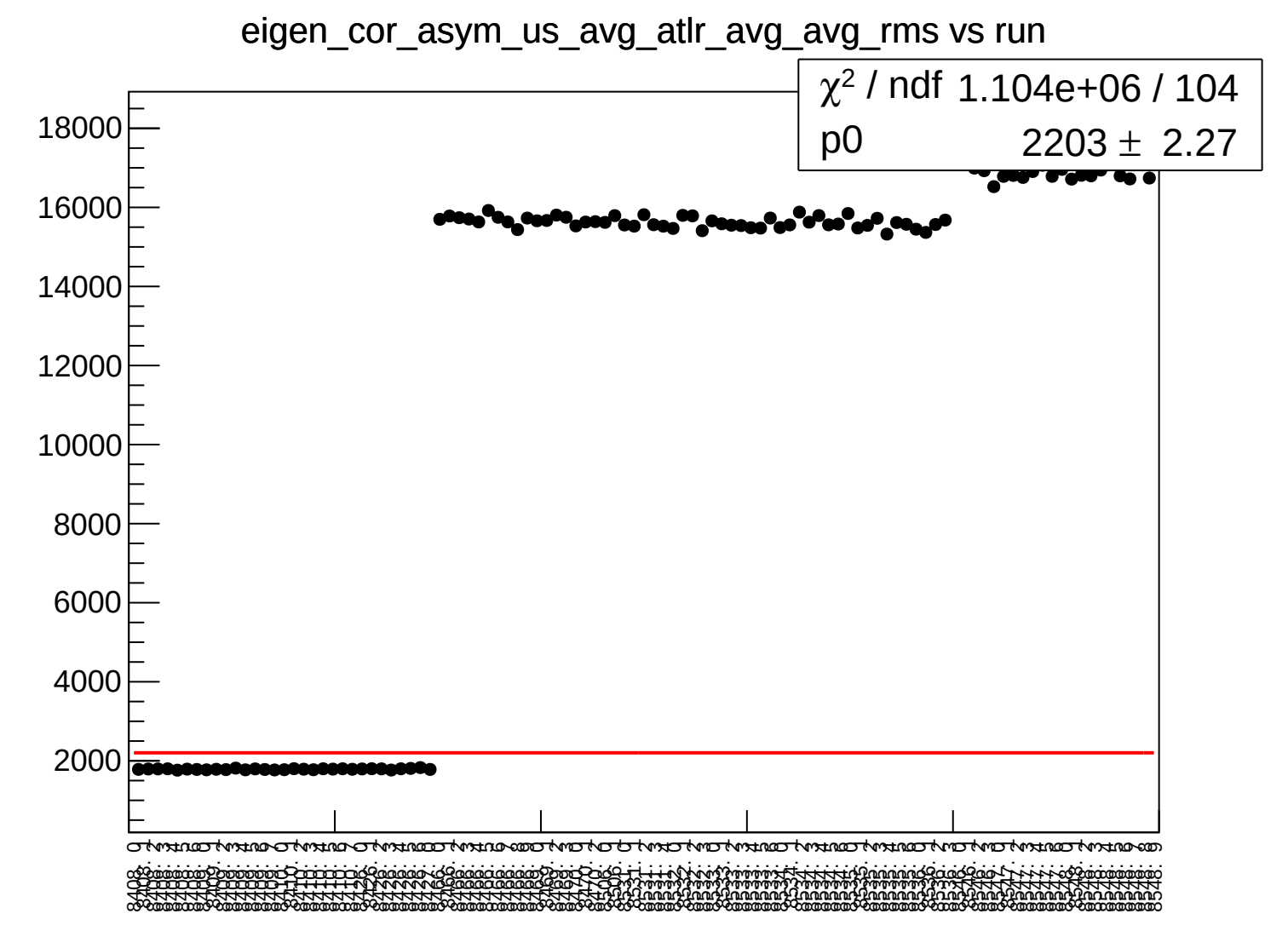

asym_us_avg_atlr_avg_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 97.32 / 104
p0 1023 ± 2430
200
100
0
−100
−200
−300
pull
Entries 105
Mean 53.1
Std Dev 32.15
3
2
1
0
−1
−2

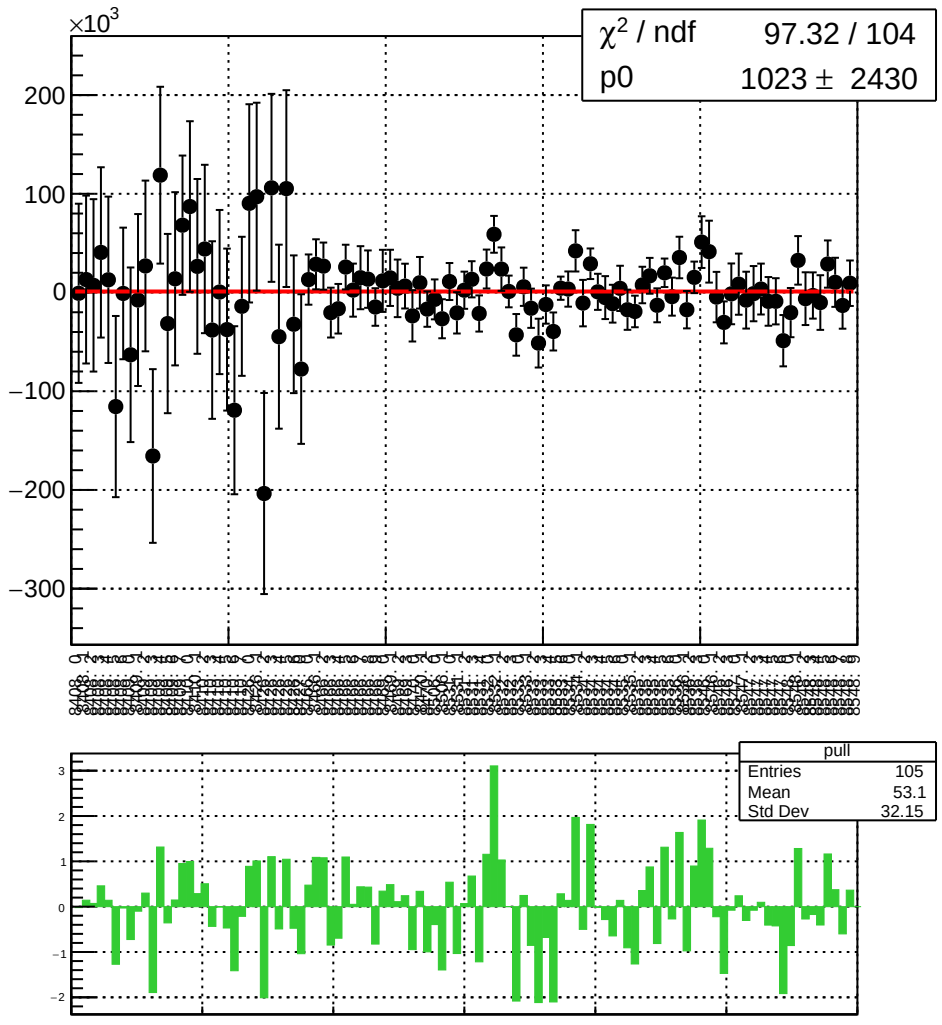

pull1D
Entries 105
Mean −0.01446
Std Dev 0.9626
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

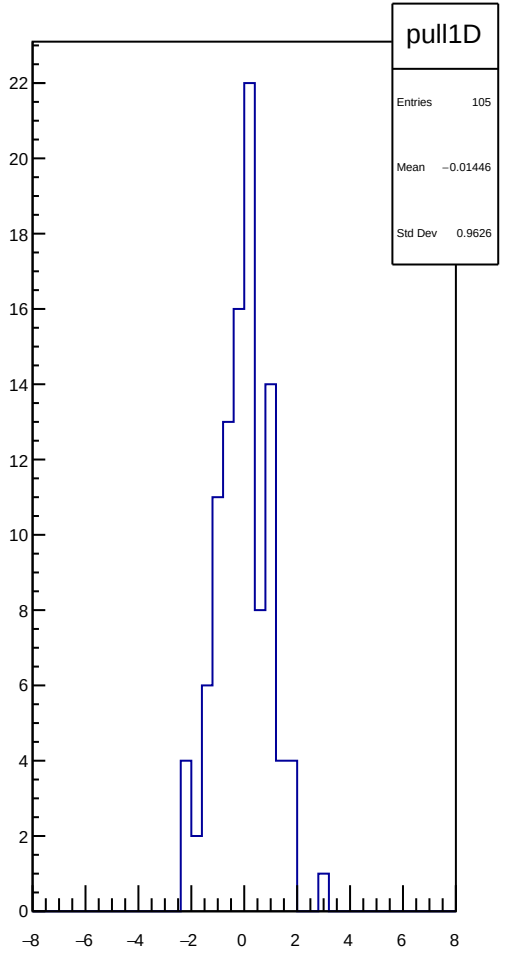

asym_us_avg_atlr_avg_avg_cor_correction_rms vs run
χ² / ndf 3.822e+05 / 104
p0 2217 ± 1.718
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000

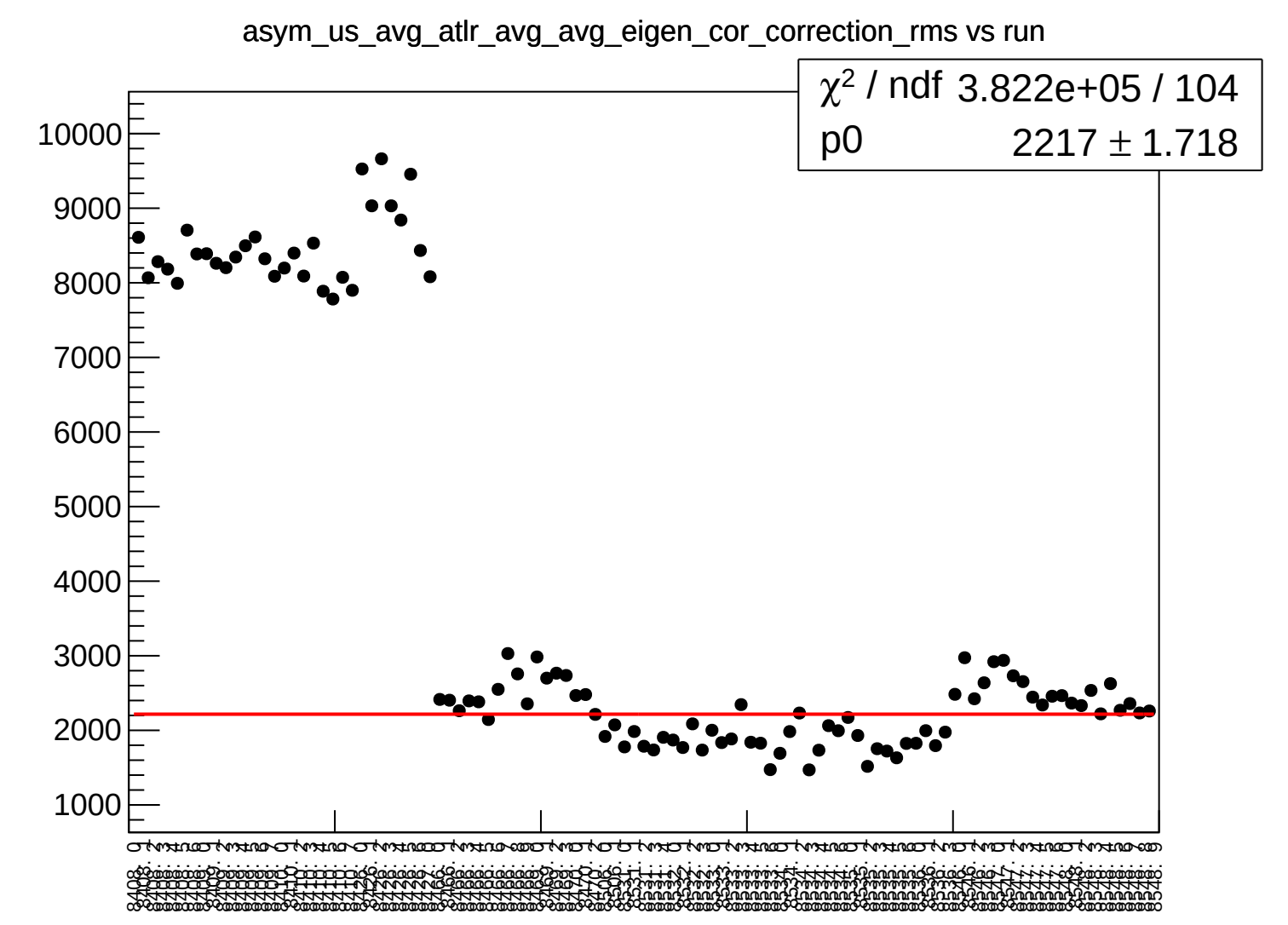

eigen_cor_asym_us_avg_atlr_avg_avg_mean vs run
×10^3
χ^2 / ndf 100.6 / 104
p0 6251 ± 3210
600
400
200
0
−200
−400
−600
pull
Entries 105
Mean 198.3
Std Dev 0
2
1
0
−1
−2

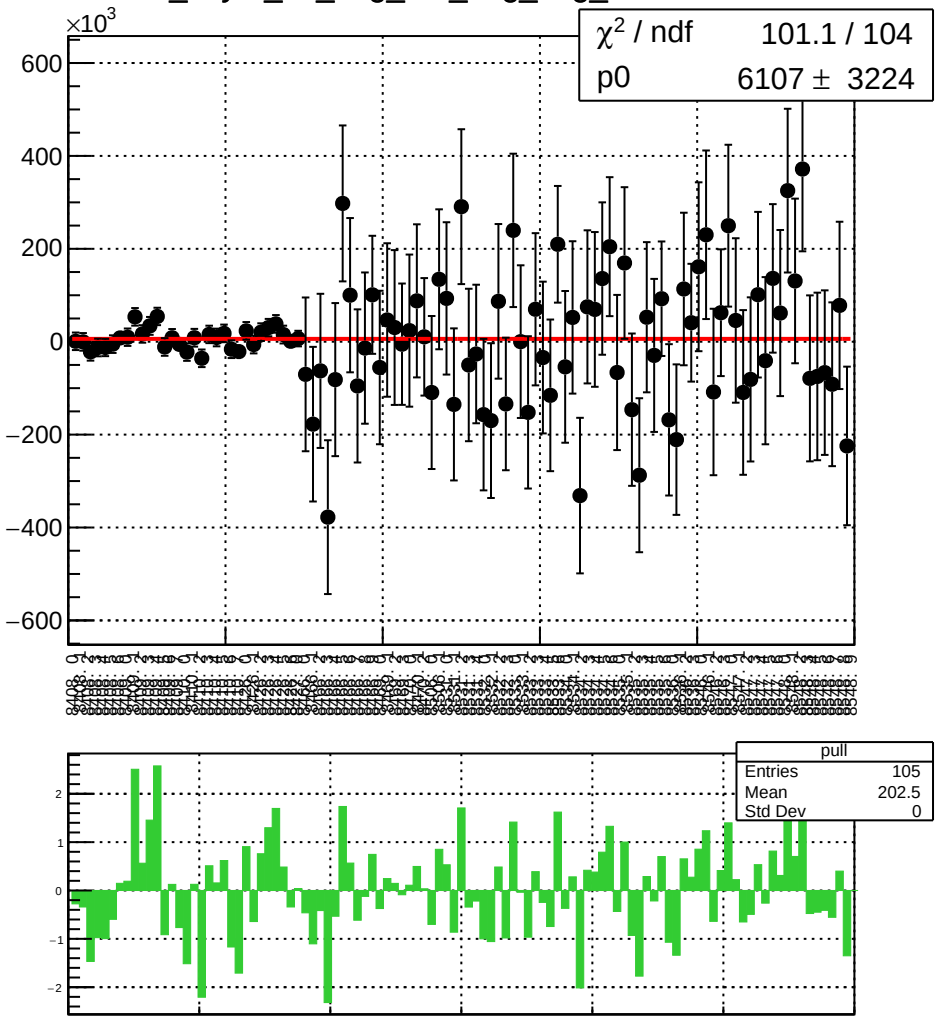

pull1D
Entries 105
Mean 0.01575
Std Dev 0.9785
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

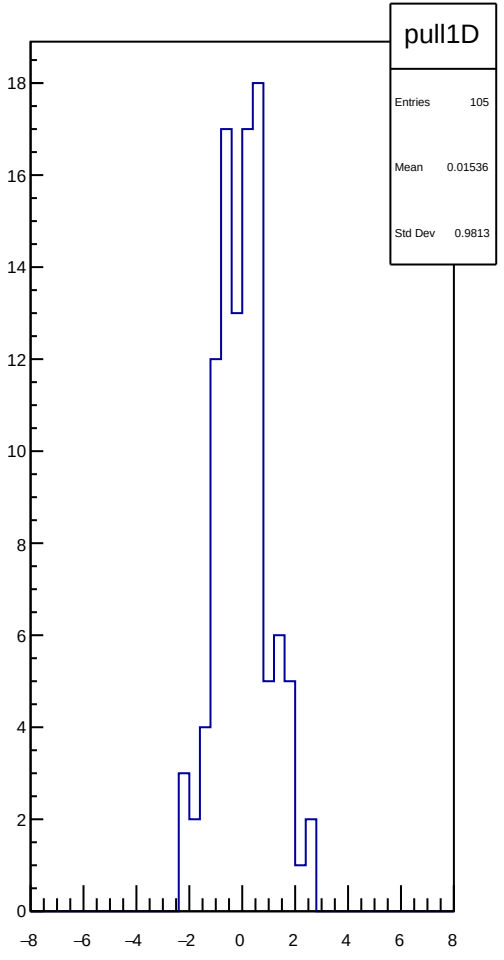

eigen_cor_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 1.104e+06 / 104
p0 2203 ± 2.27
18000
16000
14000
12000
10000
8000
6000
4000
2000

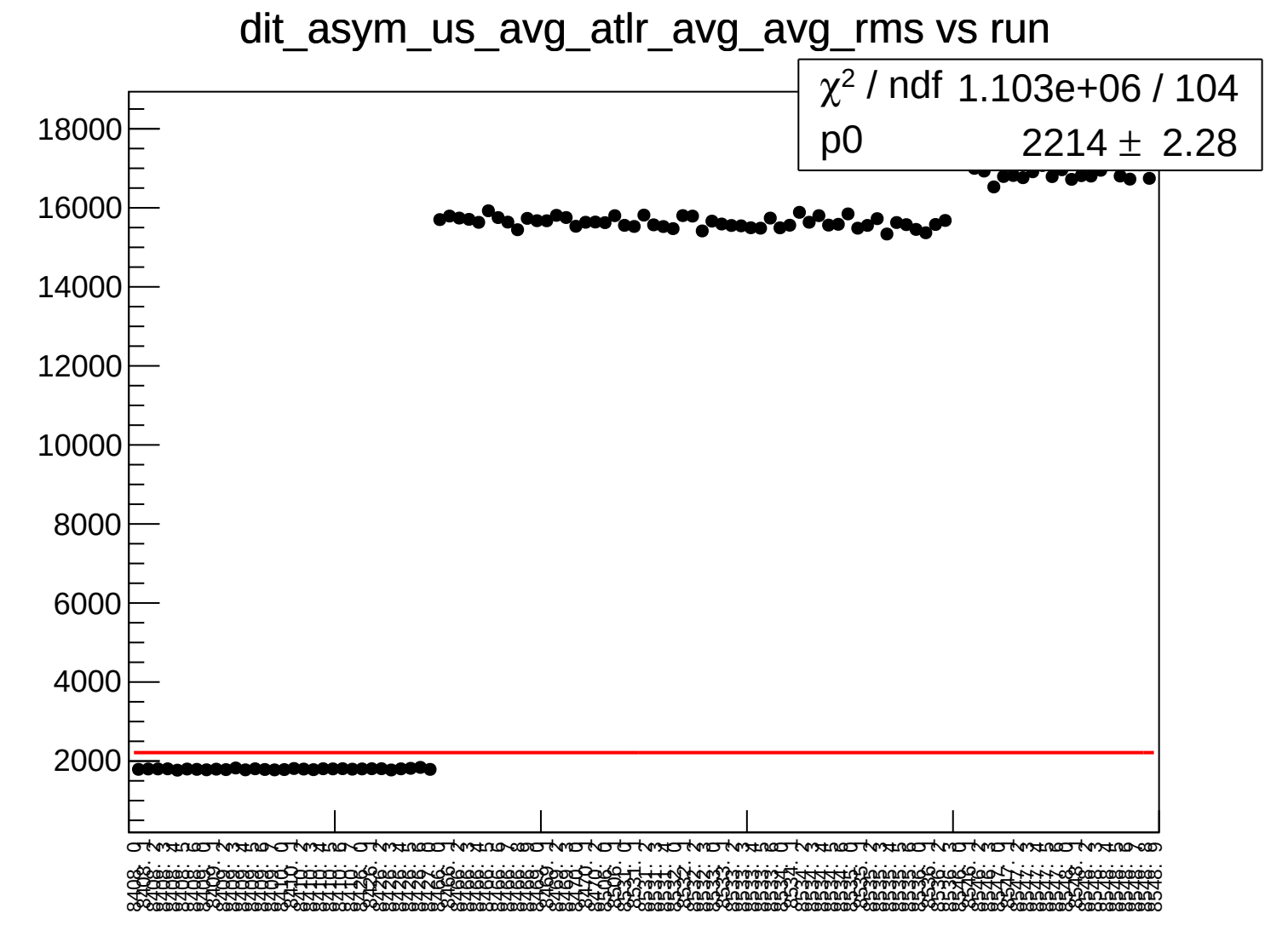

asym_us_avg_atlr_avg_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 97.32 / 104
p0 1023 ± 2430
200
100
0
−100
−200
−300
pull
Entries 105
Mean 53.1
Std Dev 32.15
3
2
1
0
−1
−2

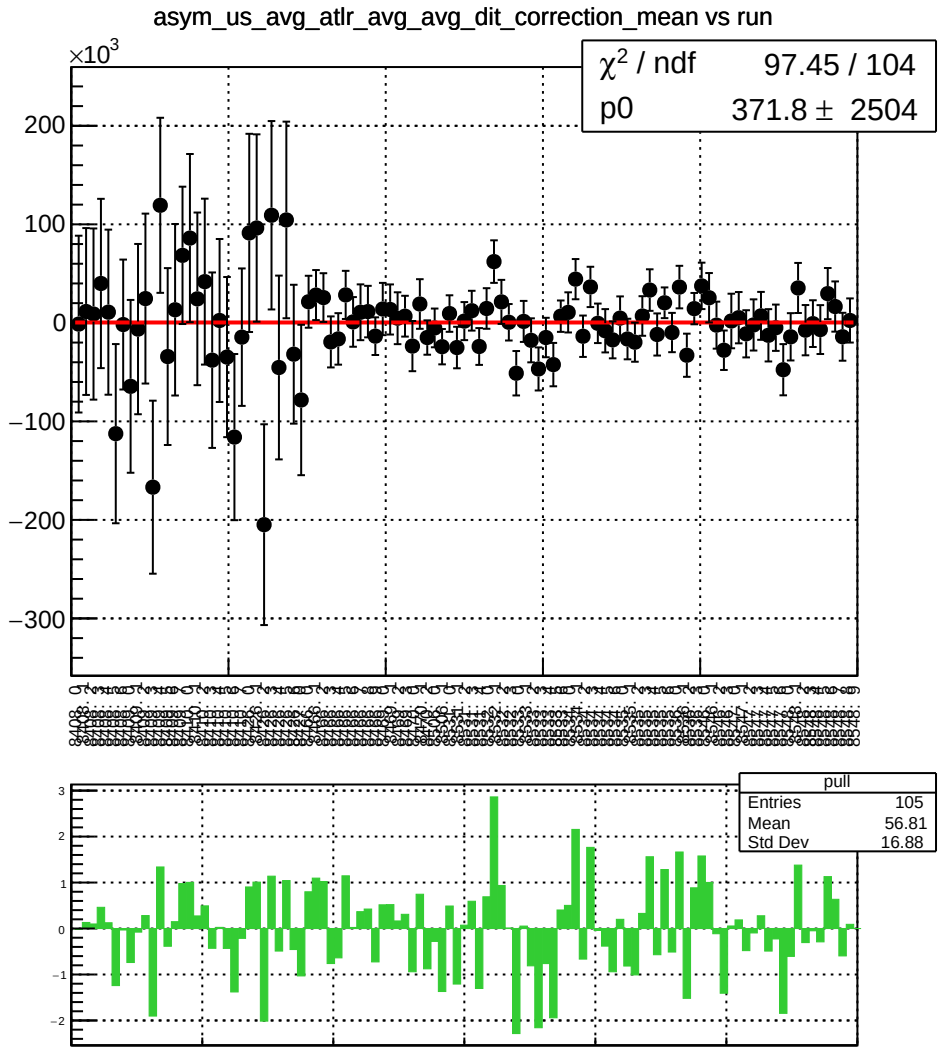

pull1D
Entries 105
Mean −0.01446
Std Dev 0.9626
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

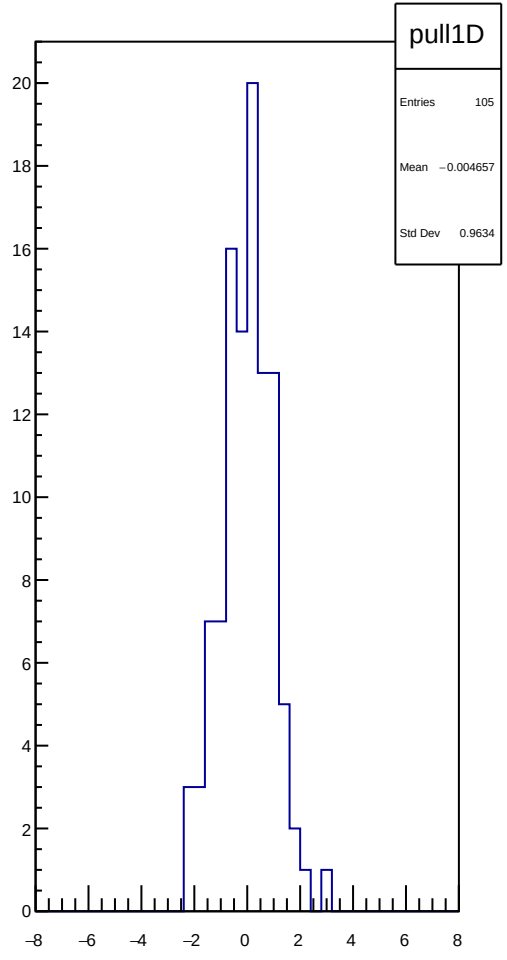

asym_us_avg_atlr_avg_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.822e+05 / 104
p0 2217 ± 1.718
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000

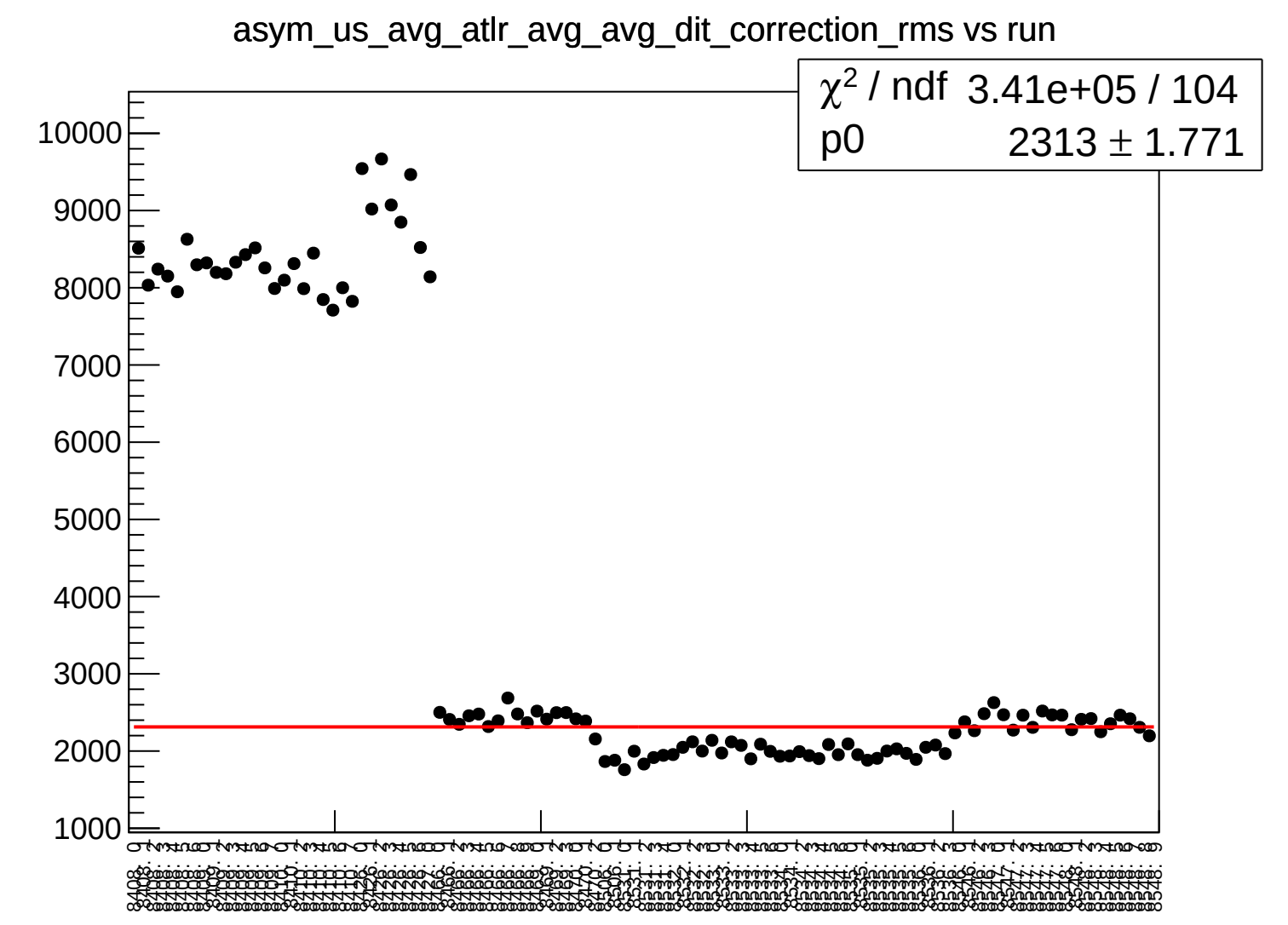

dit_asym_us_avg_atlr_avg_avg_mean vs run
×10^3
χ^2 / ndf 101.1 / 104
p0 6107 ± 3224
600
400
200
0
−200
−400
−600
pull
Entries 105
Mean 202.5
Std Dev 0
2
1
0
−1
−2

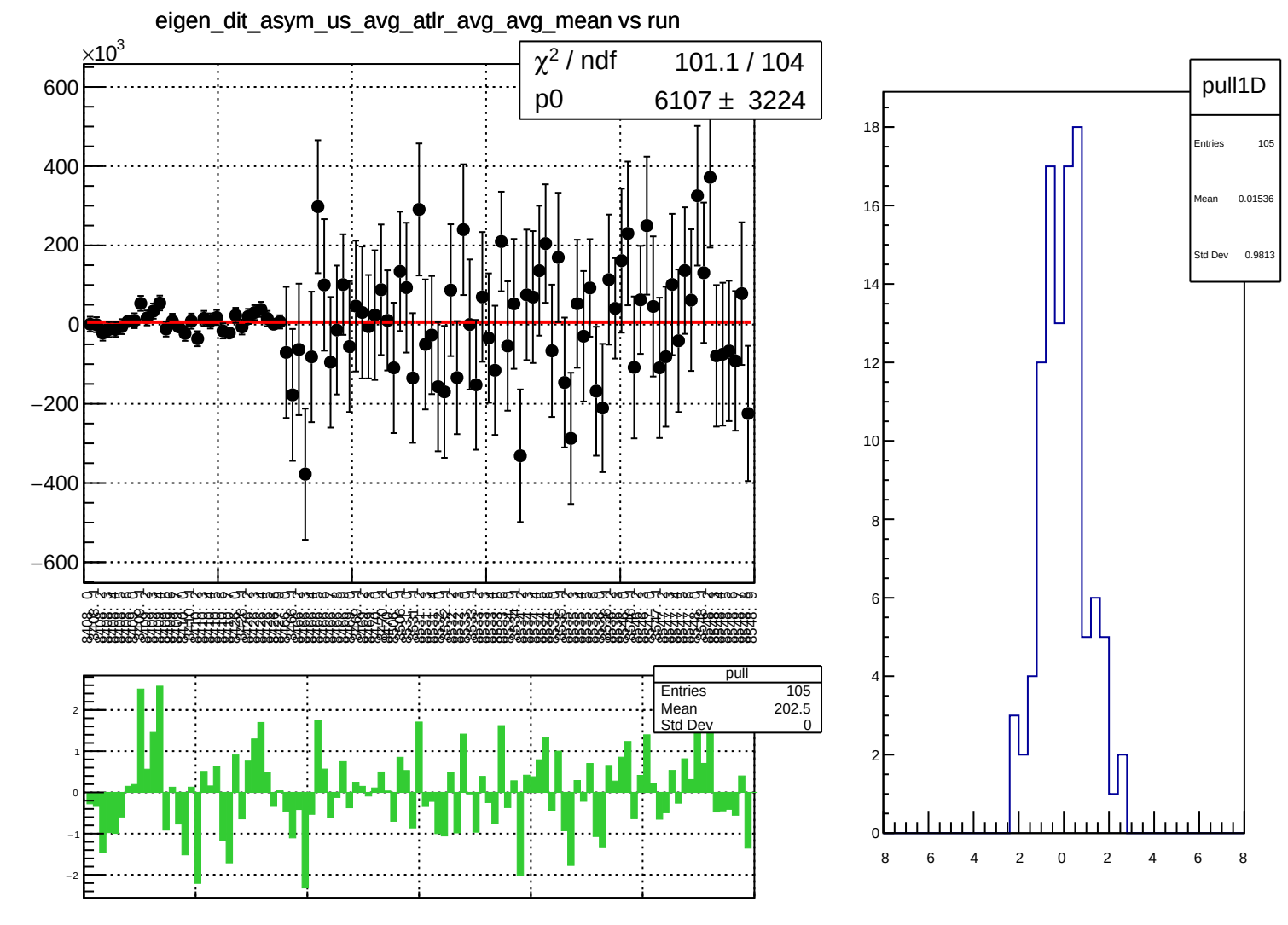

pull1D
Entries 105
Mean 0.01536
Std Dev 0.9813
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

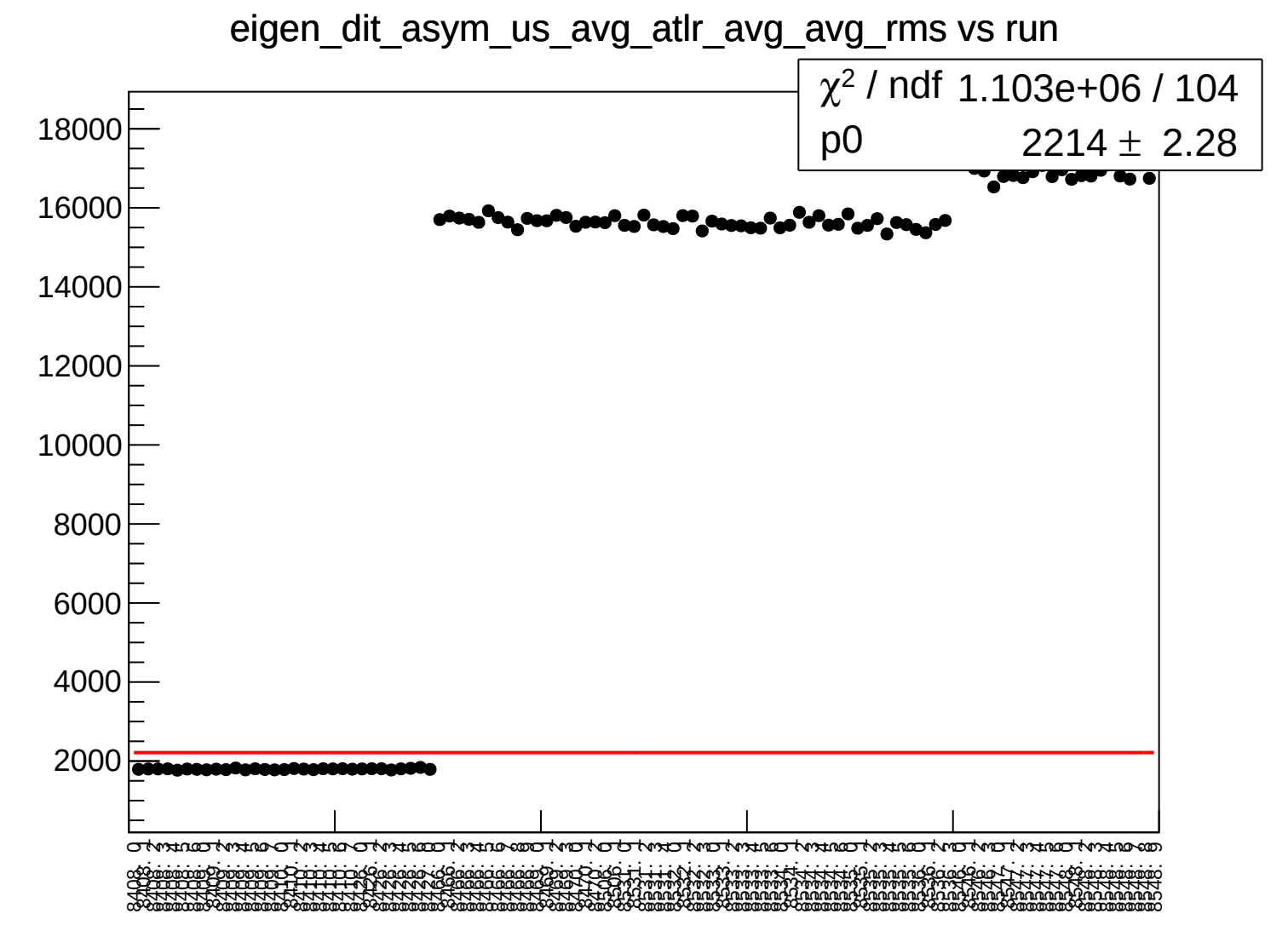

dit_asym_us_avg_atlr_avg_avg_rms vs run
χ^2 / ndf 1.103e+06 / 104
p0 2214 ± 2.28
18000
16000
14000
12000
10000
8000
6000
4000
2000

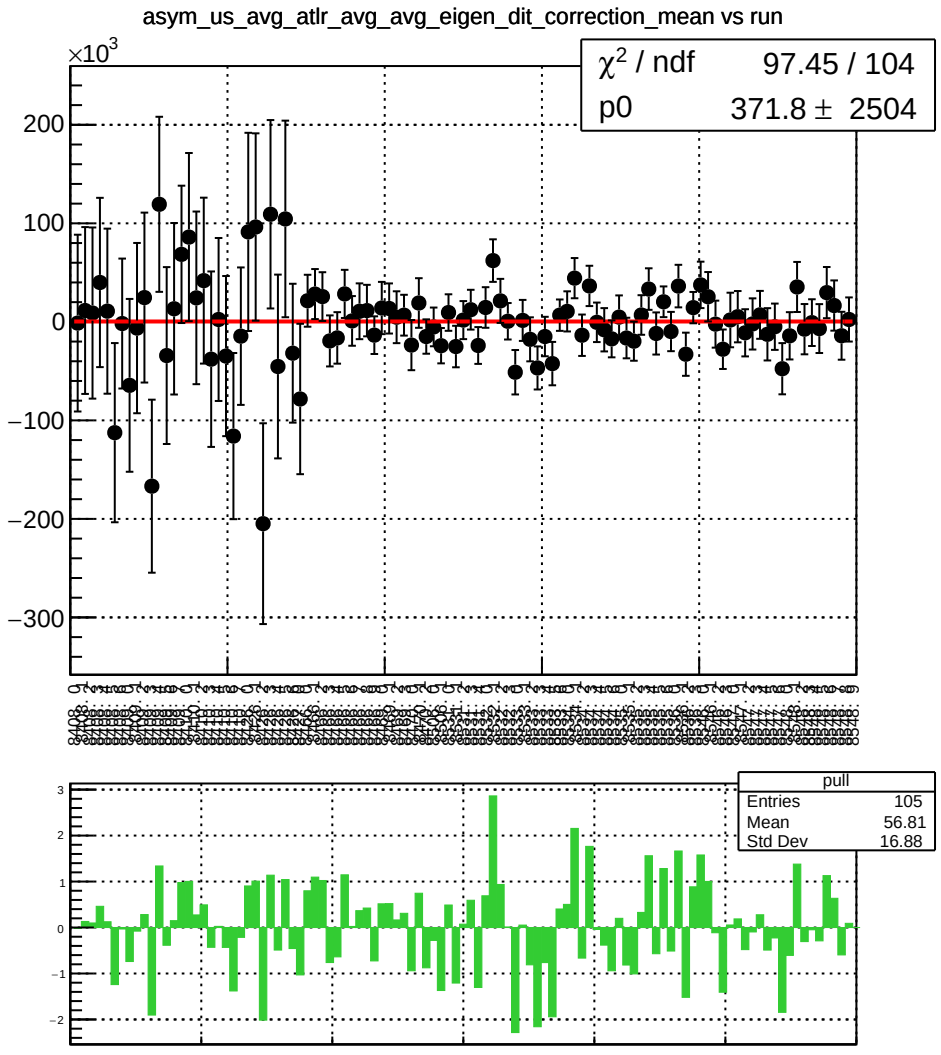

asym_us_avg_atlr_avg_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 97.45 / 104
p0 371.8 ± 2504
200
100
0
−100
−200
−300
pull
Entries 105
Mean 56.81
Std Dev 16.88
3
2
1
0
−1
−2

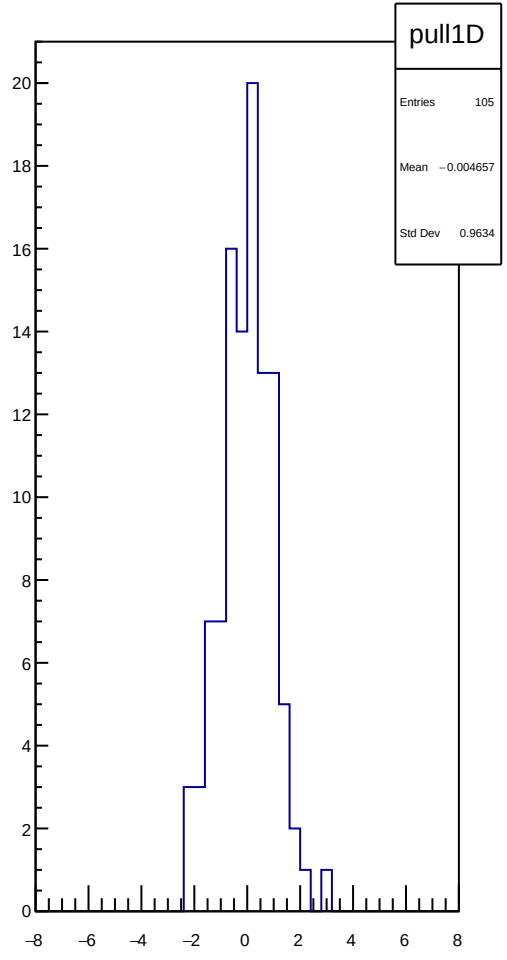

pull1D
Entries 105
Mean −0.004657
Std Dev 0.9634
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

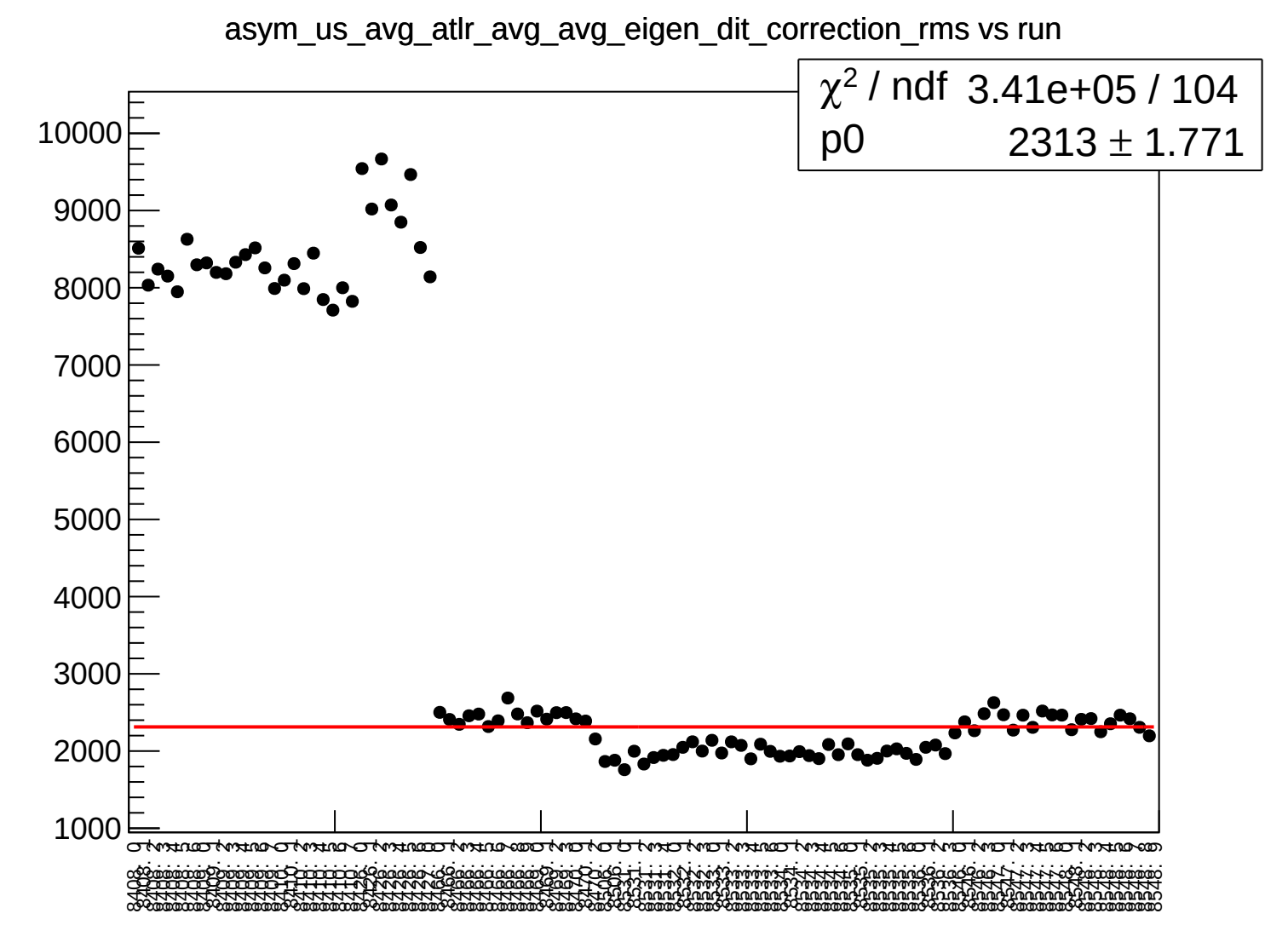

asym_us_avg_atlr_avg_avg_dit_correction_rms vs run
χ² / ndf 3.41e+05 / 104
p0 2313 ± 1.771
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000

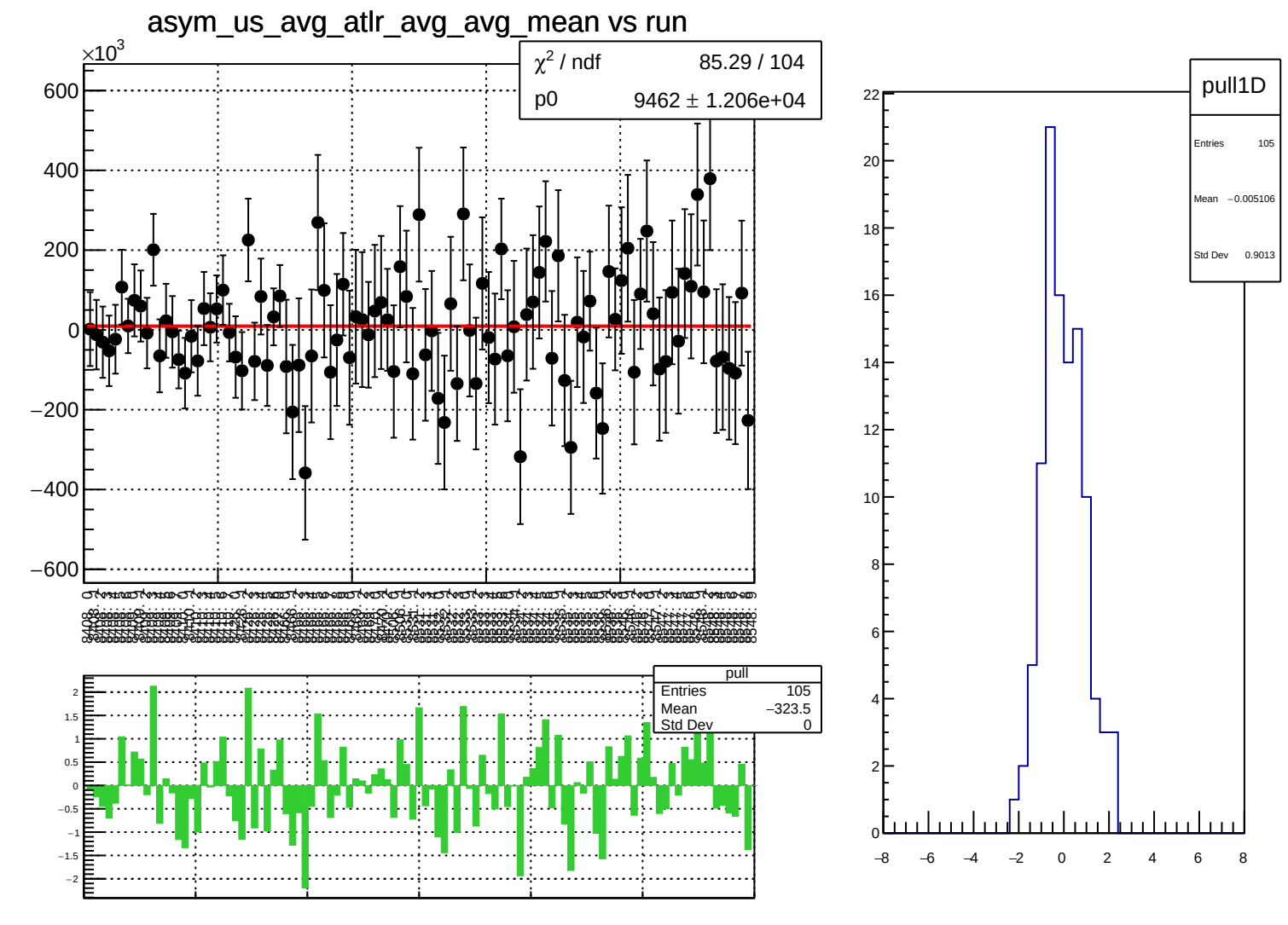

eigen_dit_asym_us_avg_atlr_avg_avg_mean vs run
×10^3
χ² / ndf 101.1 / 104
p0 6107 ± 3224
600
400
200
0
−200
−400
−600
pull
Entries 105
Mean 202.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.01536
Std Dev 0.9813
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

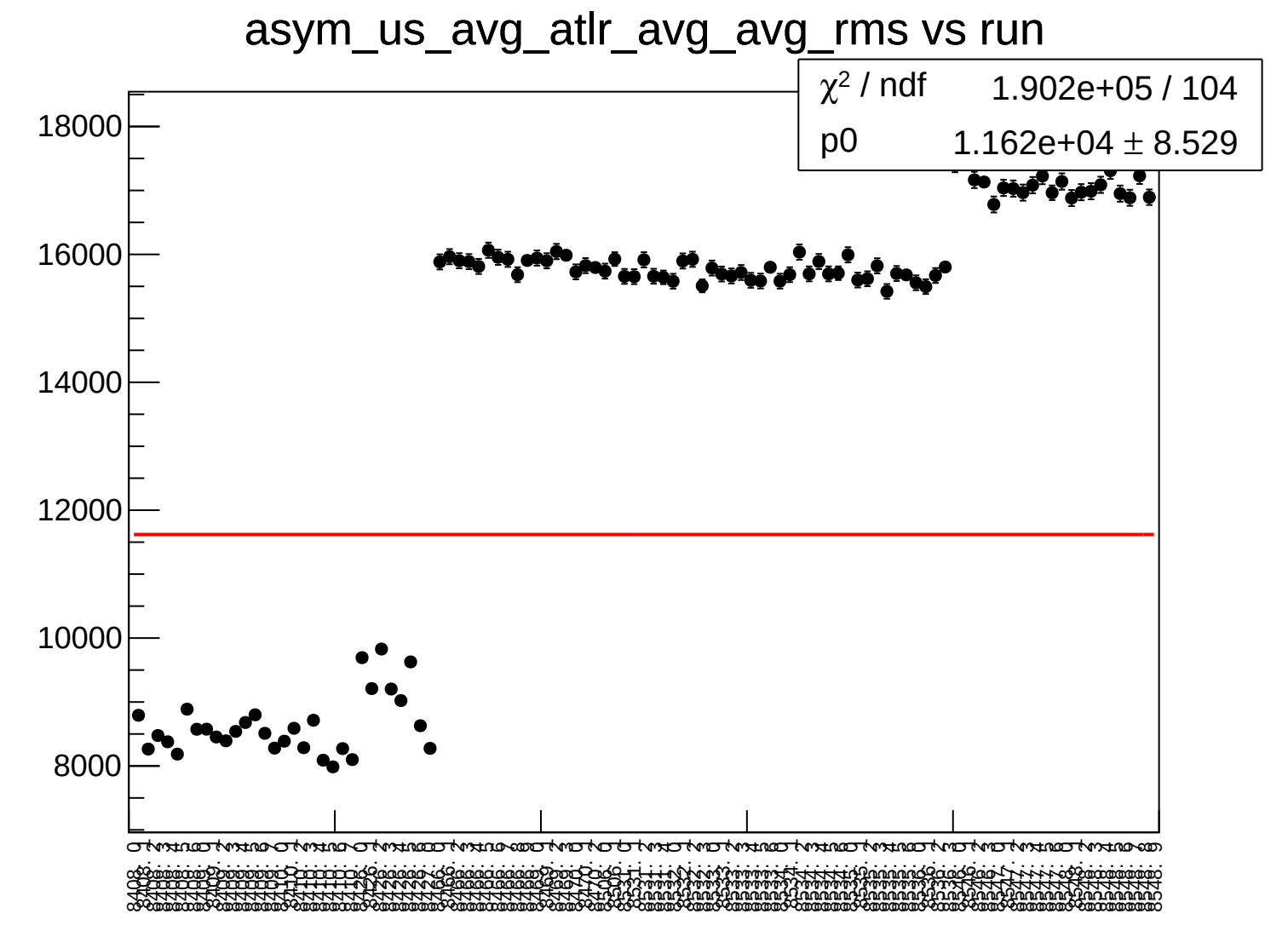

eigen_dit_asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 1.103e+06 / 104
p0 2214 ± 2.28
18000
16000
14000
12000
10000
8000
6000
4000
2000

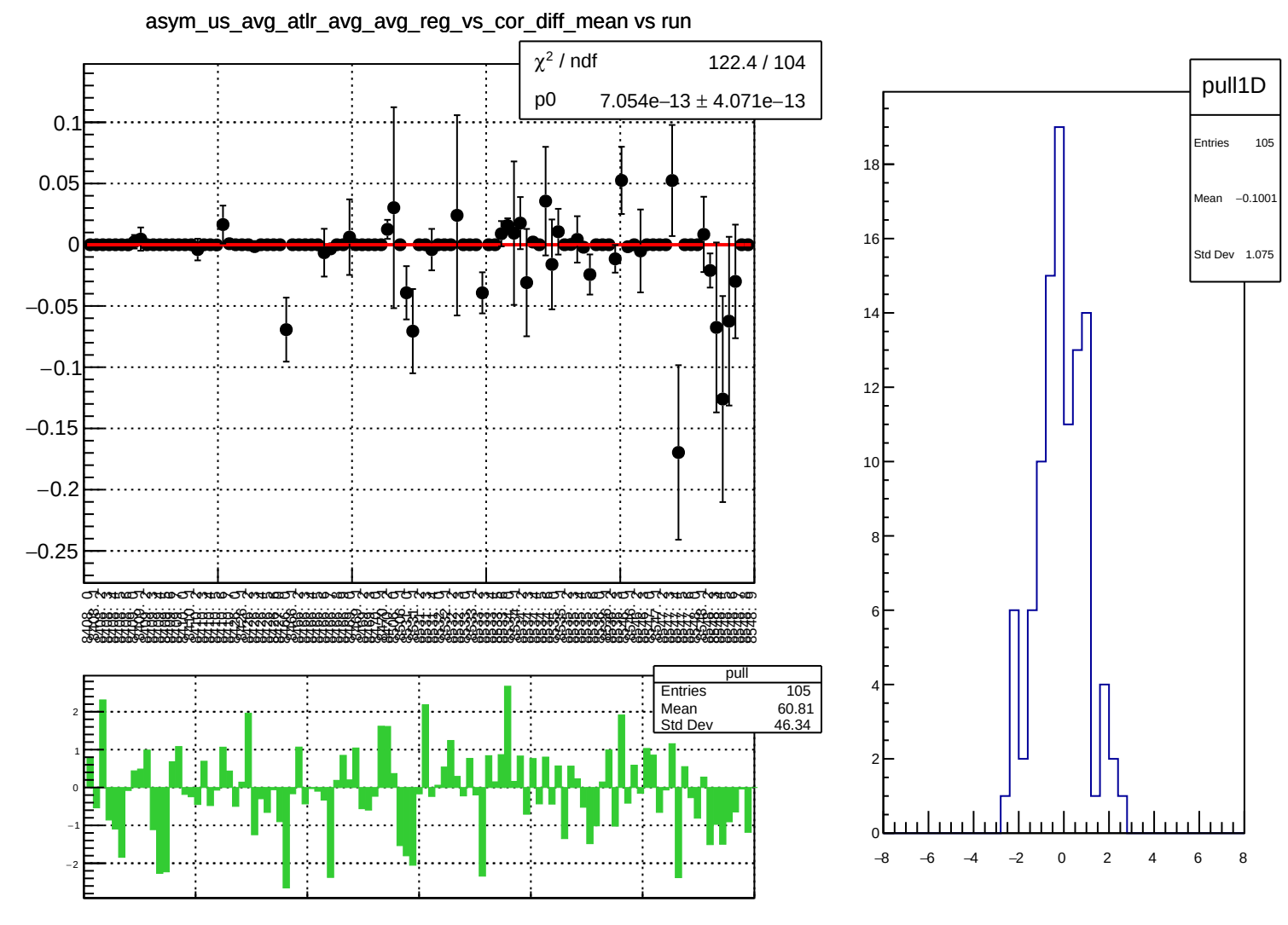

asym_us_avg_atlr_avg_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 97.45 / 104
p0 371.8 ± 2504
200
100
0
−100
−200
−300
pull
Entries 105
Mean 56.81
Std Dev 16.88
3
2
1
0
−1
−2

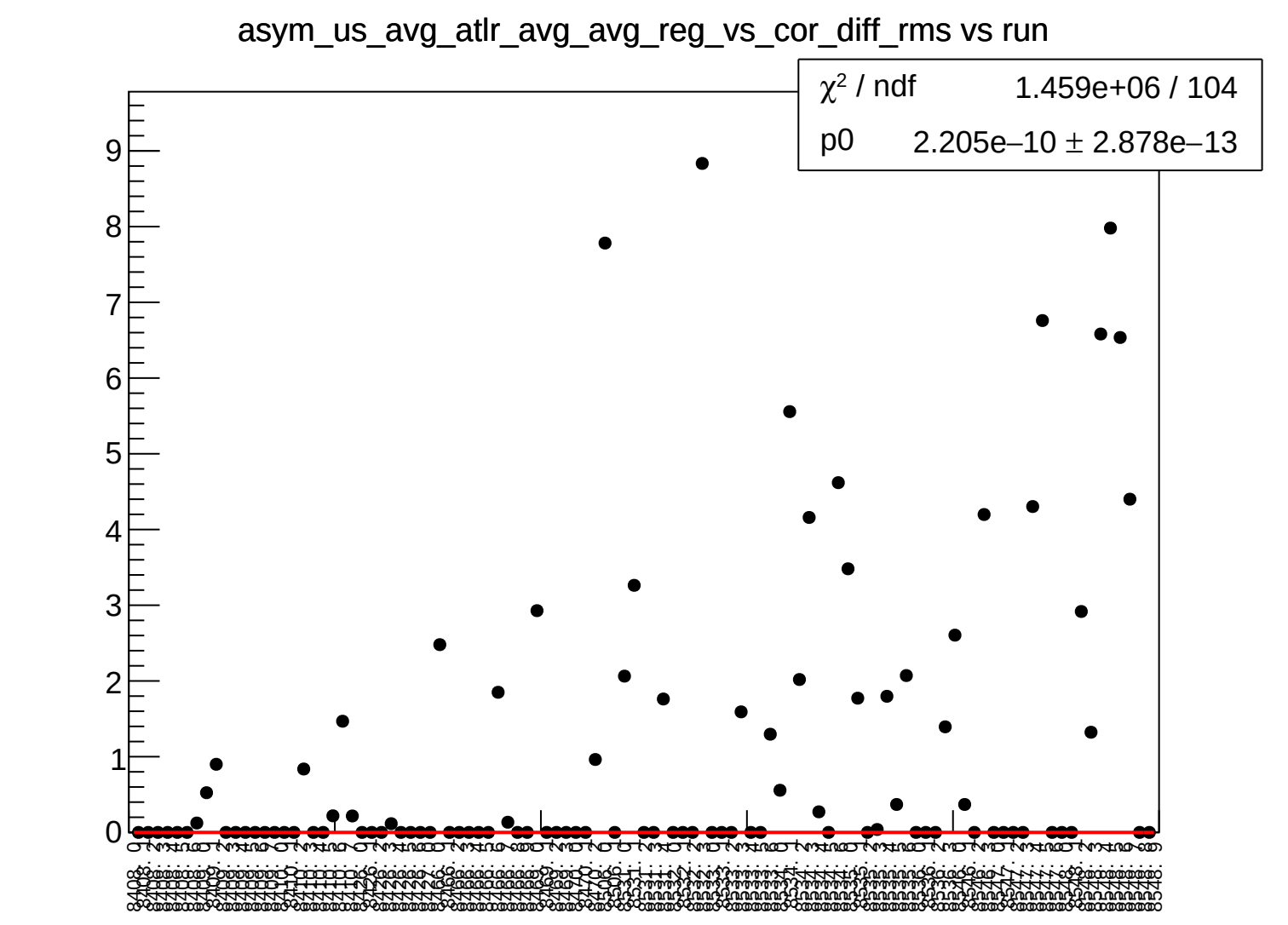

pull1D
Entries 105
Mean −0.004657
Std Dev 0.9634
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

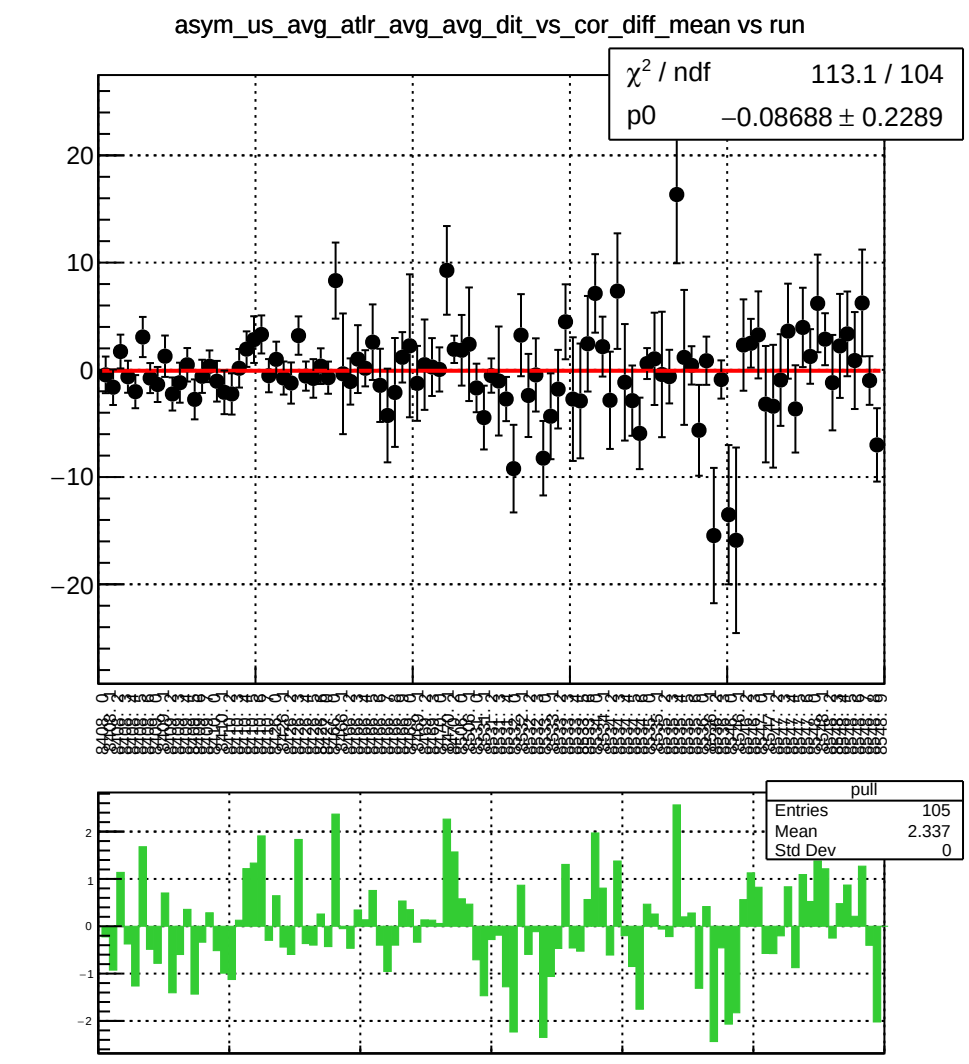

asym_us_avg_atlr_avg_avg_eigen_dit_correction_rms vs run
χ^2 / ndf 3.41e+05 / 104
p0 2313 ± 1.771
10000
9000
8000
7000
6000
5000
4000
3000
2000
1000

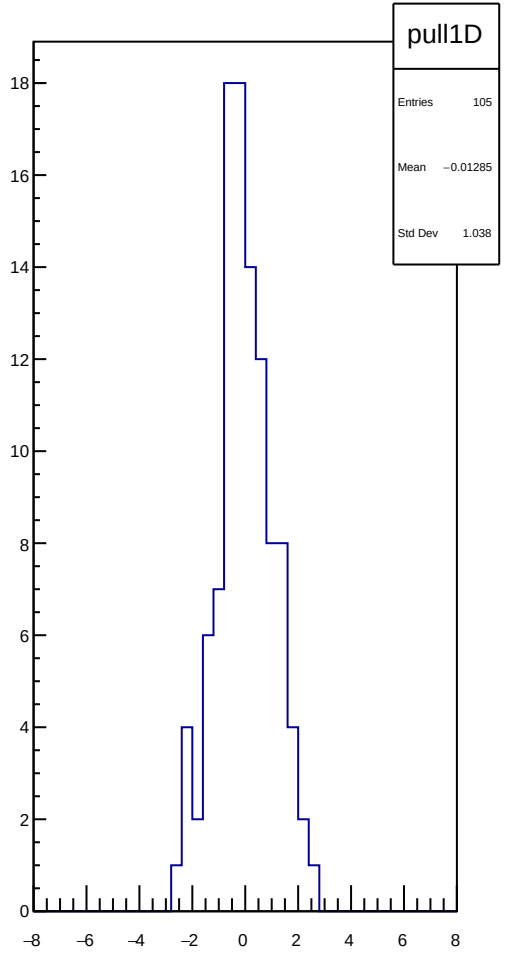

asym_us_avg_atlr_avg_avg_mean vs run
×10^3
χ² / ndf 85.29 / 104
p0 9462 ± 1.206e+04
600
400
200
0
−200
−400
−600
pull
Entries 105
Mean −323.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 105
Mean −0.005106
Std Dev 0.9013
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

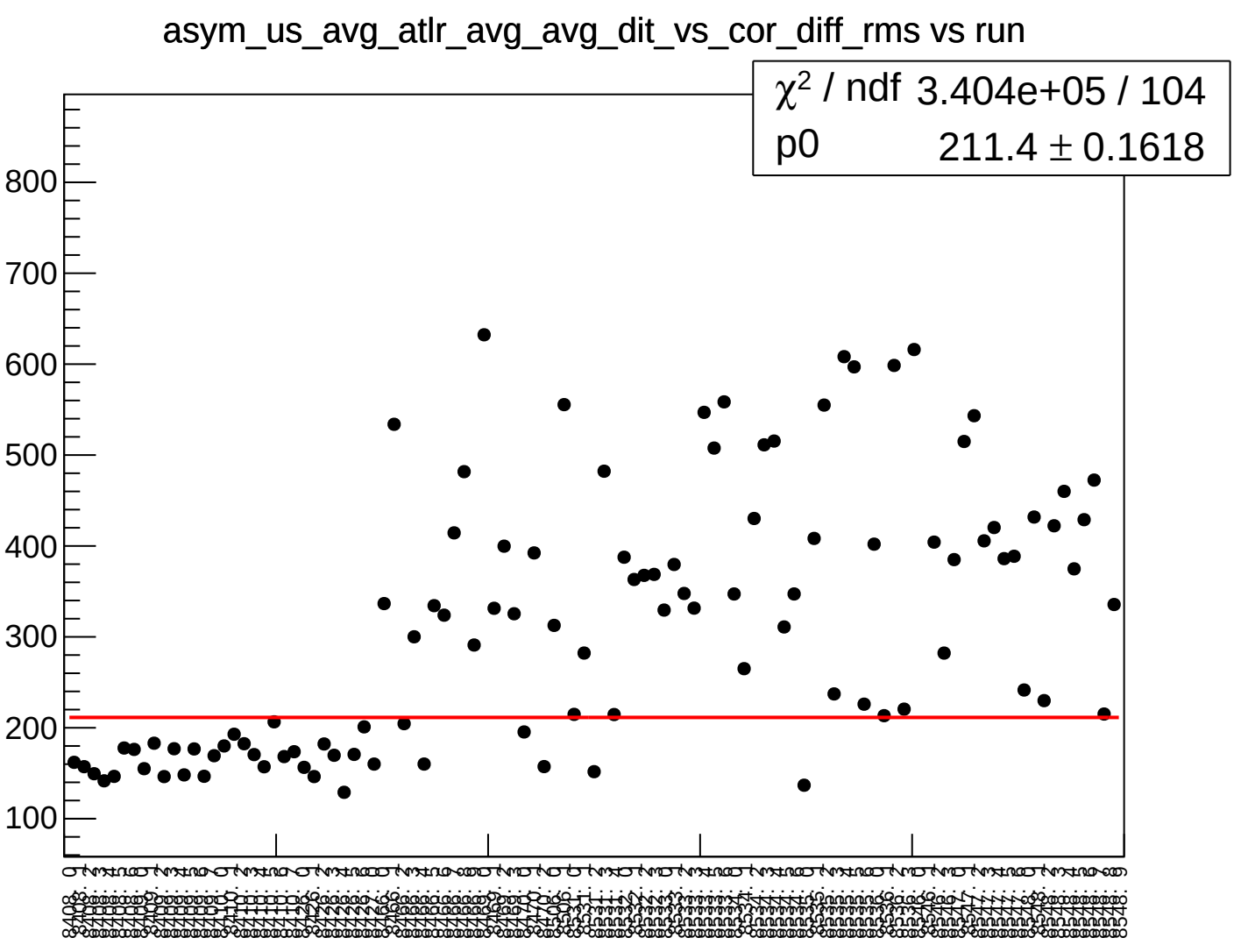

asym_us_avg_atlr_avg_avg_rms vs run
χ² / ndf 1.902e+05 / 104
p0 1.162e+04 ± 8.529
18000
16000
14000
12000
10000
8000

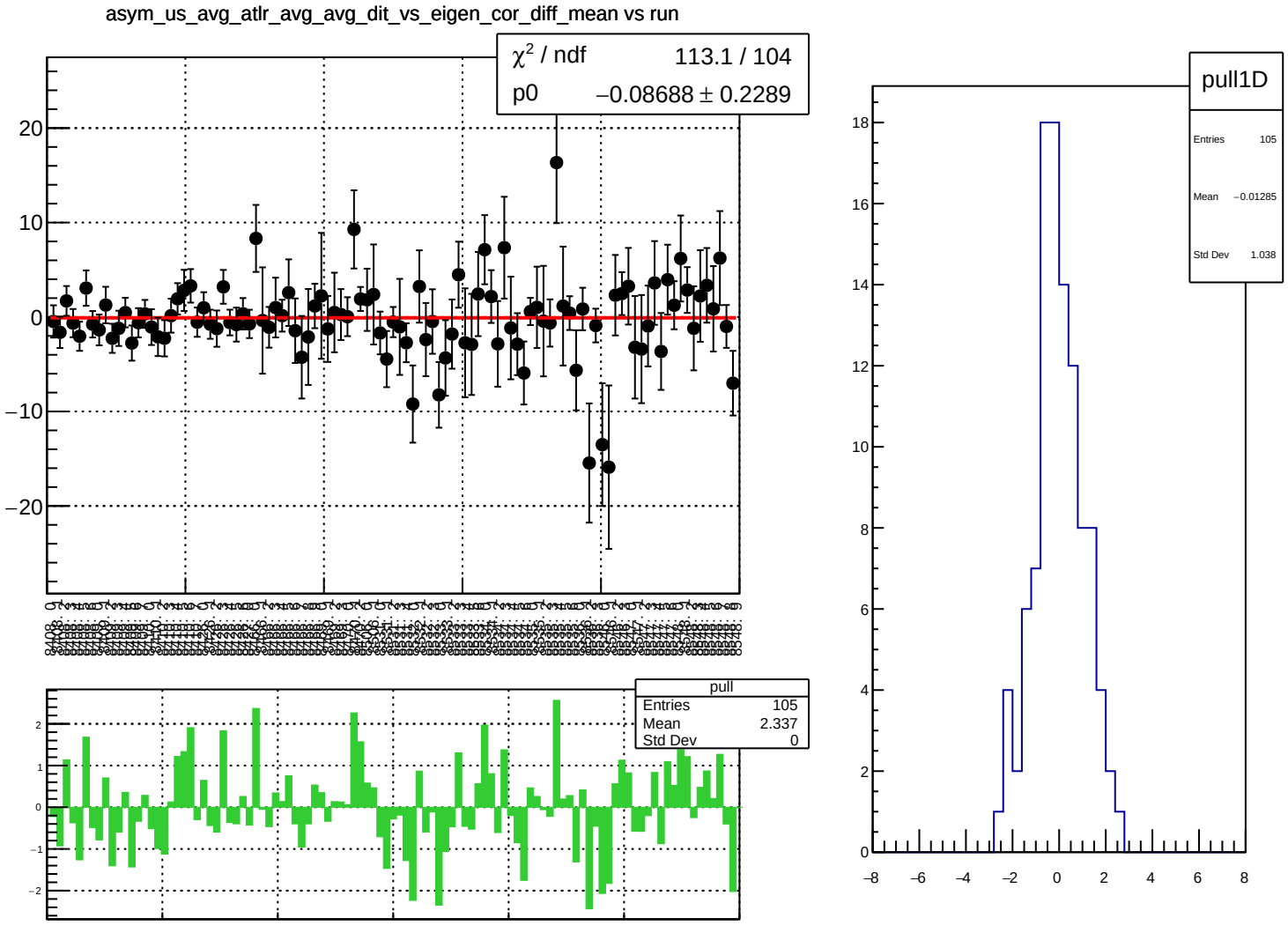

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 122.4 / 104
p0 7.054e−13 ± 4.071e−13
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
−0.25
pull
Entries 105
Mean 60.81
Std Dev 46.34
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.1001
Std Dev 1.075
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

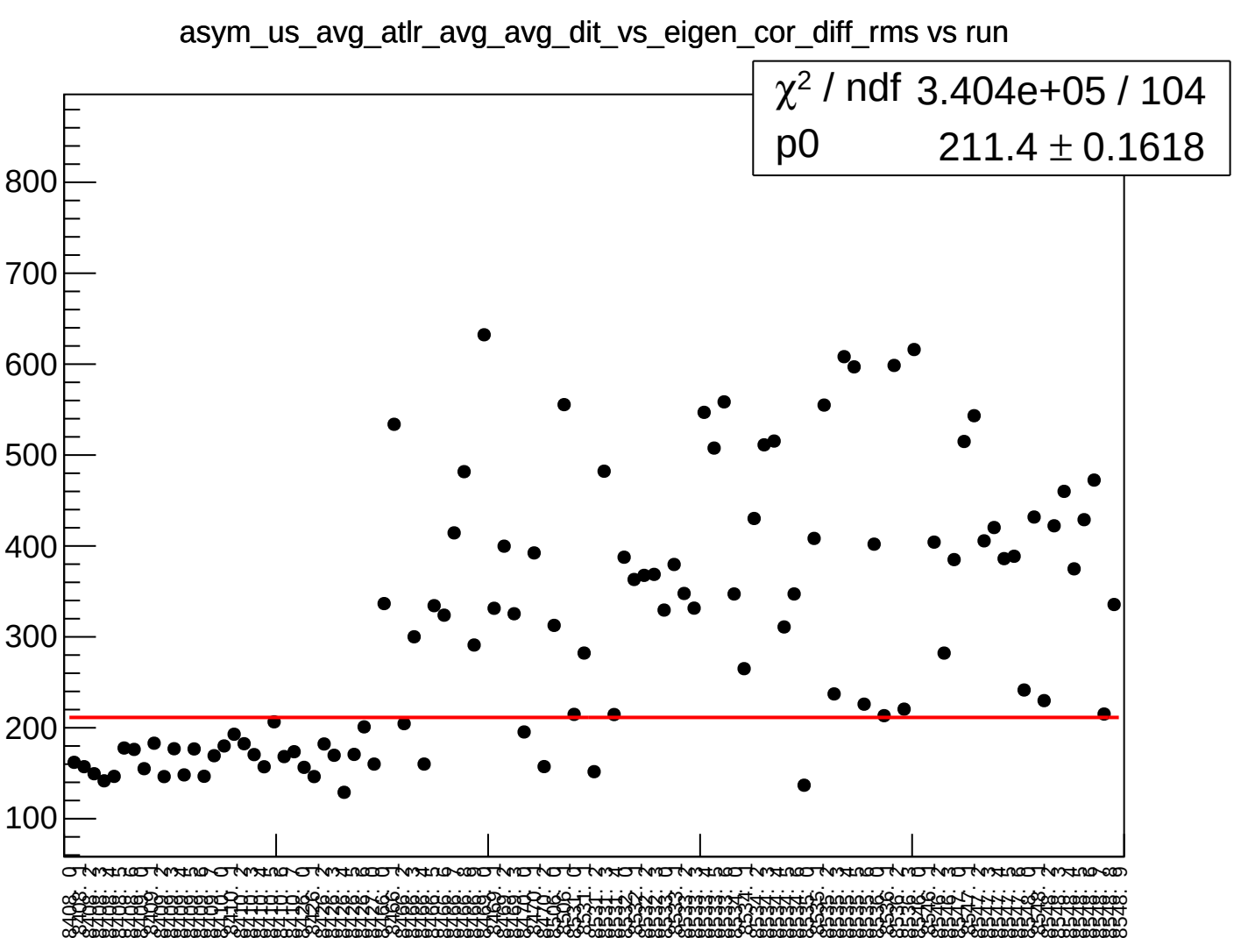

asym_us_avg_atlr_avg_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.459e+06 / 104
p0 2.205e−10 ± 2.878e−13
0
1
2
3
4
5
6
7
8
9

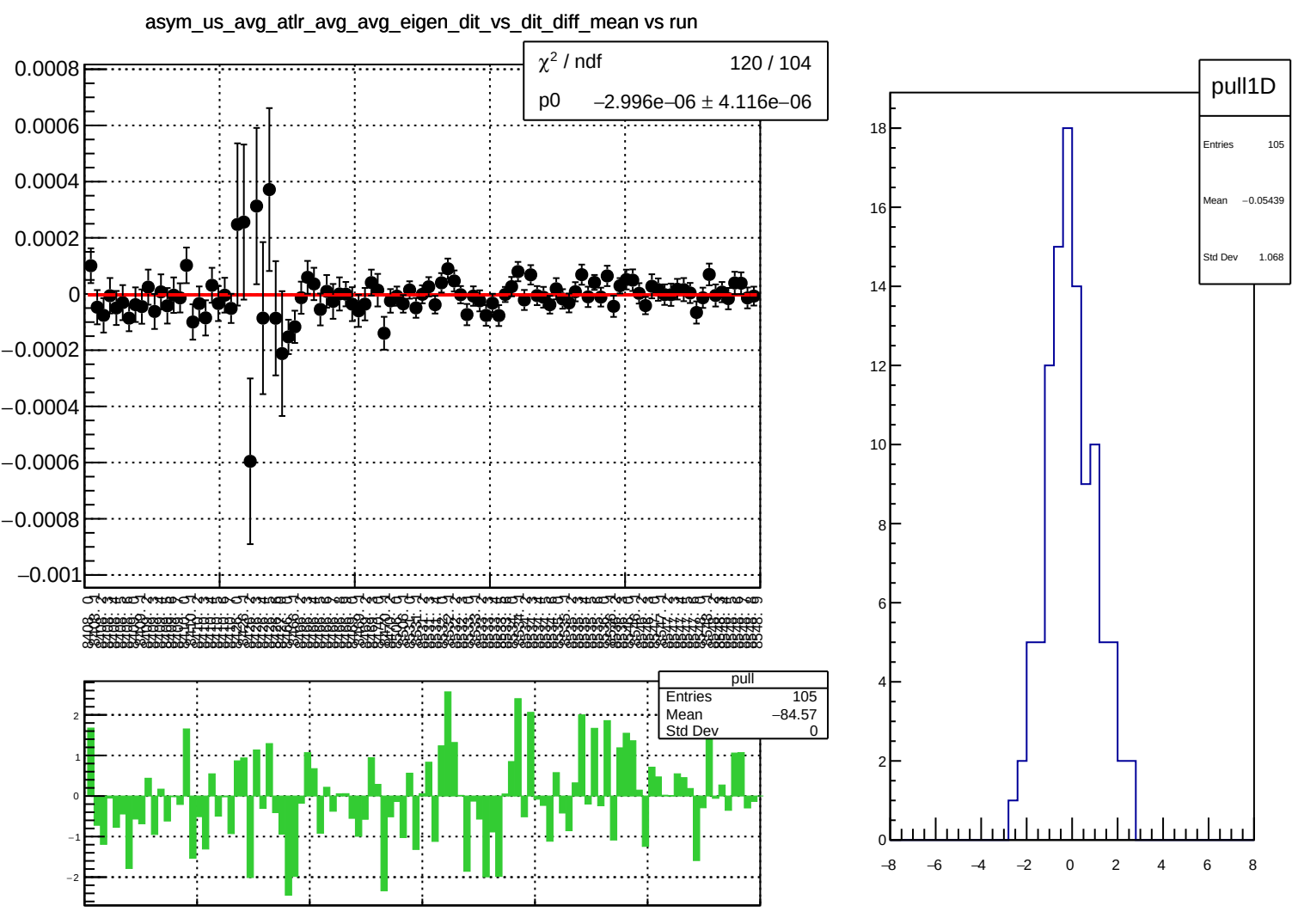

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 113.1 / 104
p0 −0.08688 ± 0.2289
20
10
0
−10
−20
pull
Entries 105
Mean 2.337
Std Dev 0
2
1
0
−1
−2

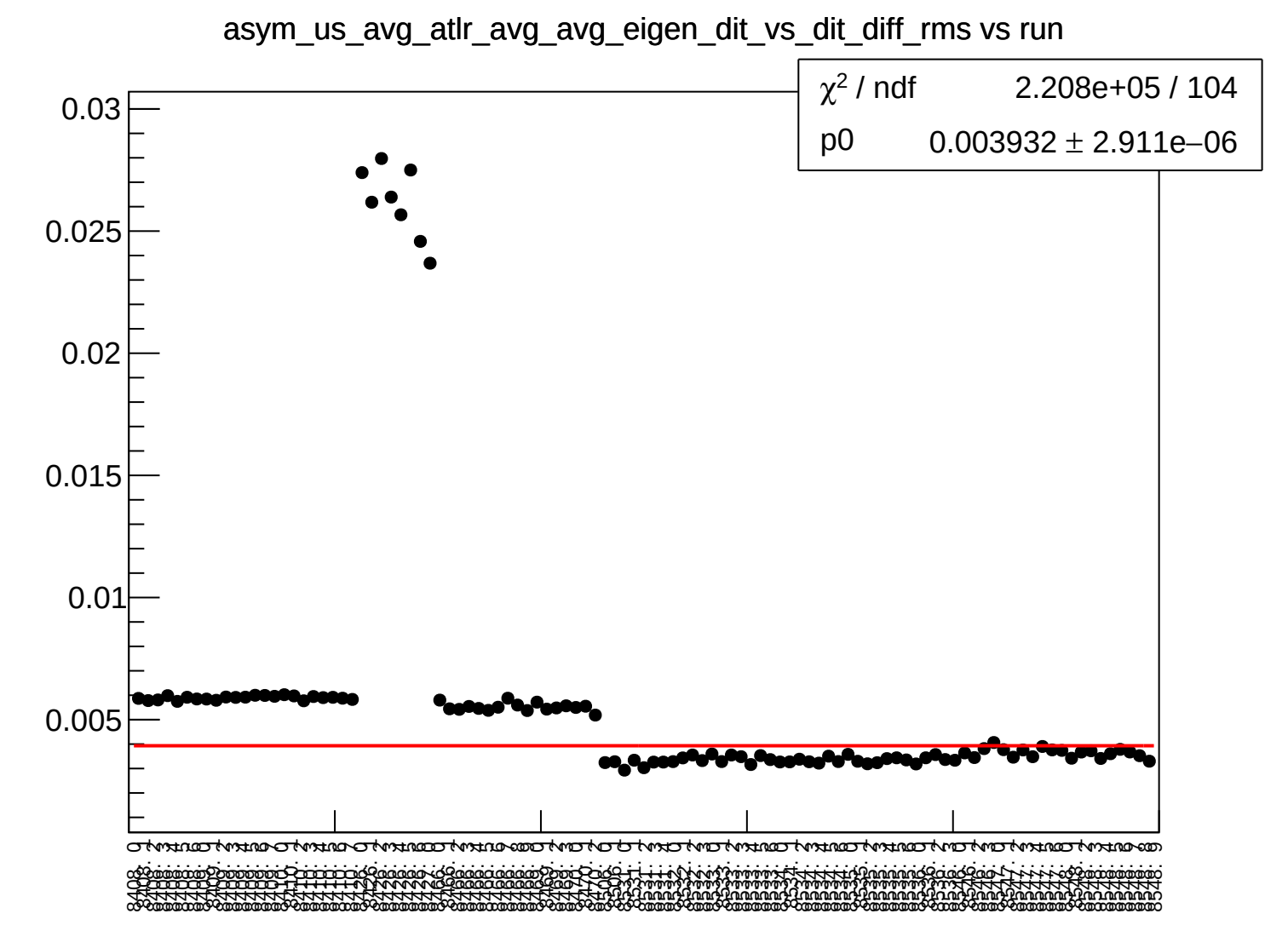

pull1D
Entries 105
Mean −0.01285
Std Dev 1.038
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

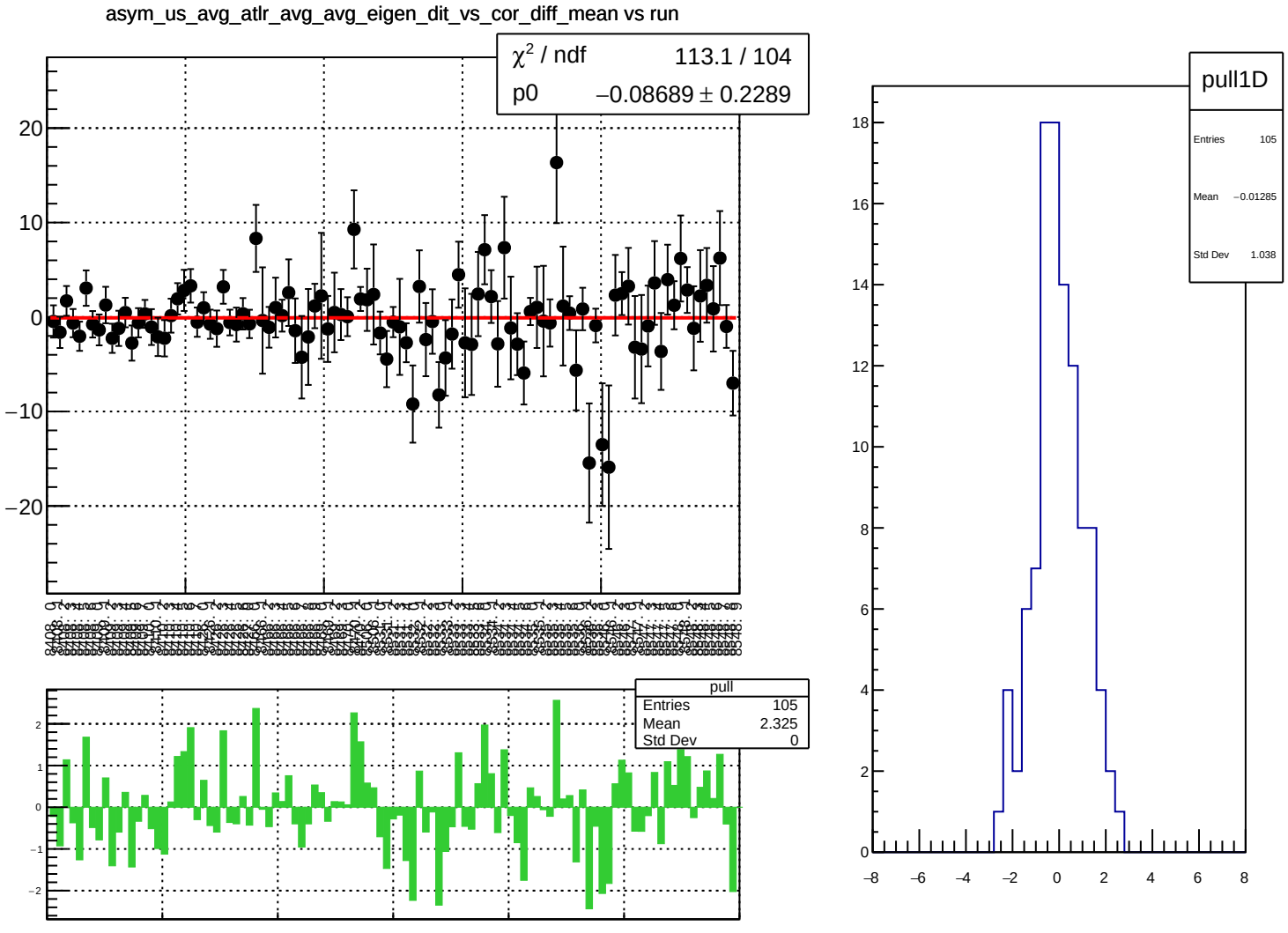

asym_us_avg_atlr_avg_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.404e+05 / 104
p0 211.4 ± 0.1618
800
700
600
500
400
300
200
100

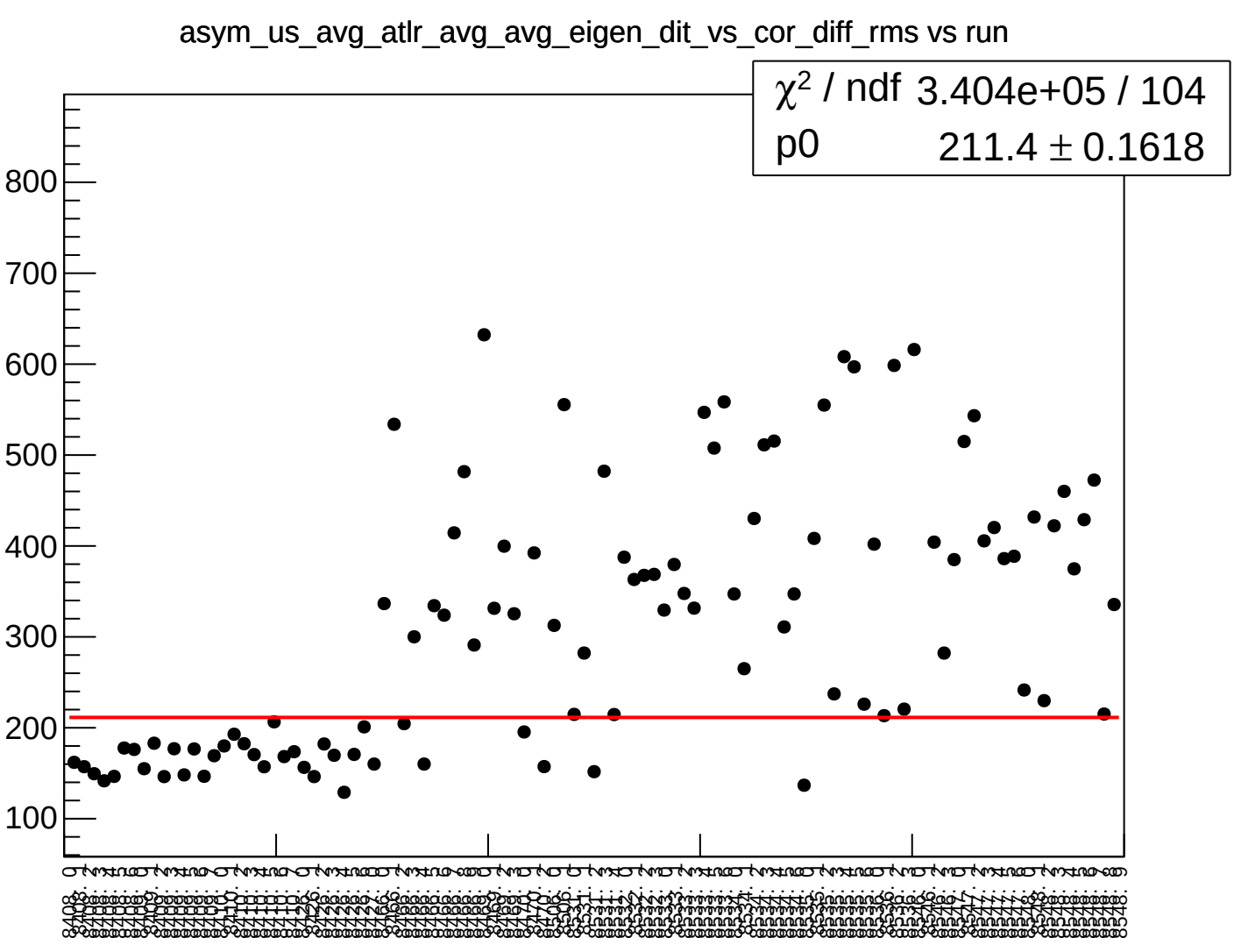

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 113.1 / 104
p0 −0.08688 ± 0.2289
20
10
0
−10
−20
pull
Entries 105
Mean 2.337
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.01285
Std Dev 1.038
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

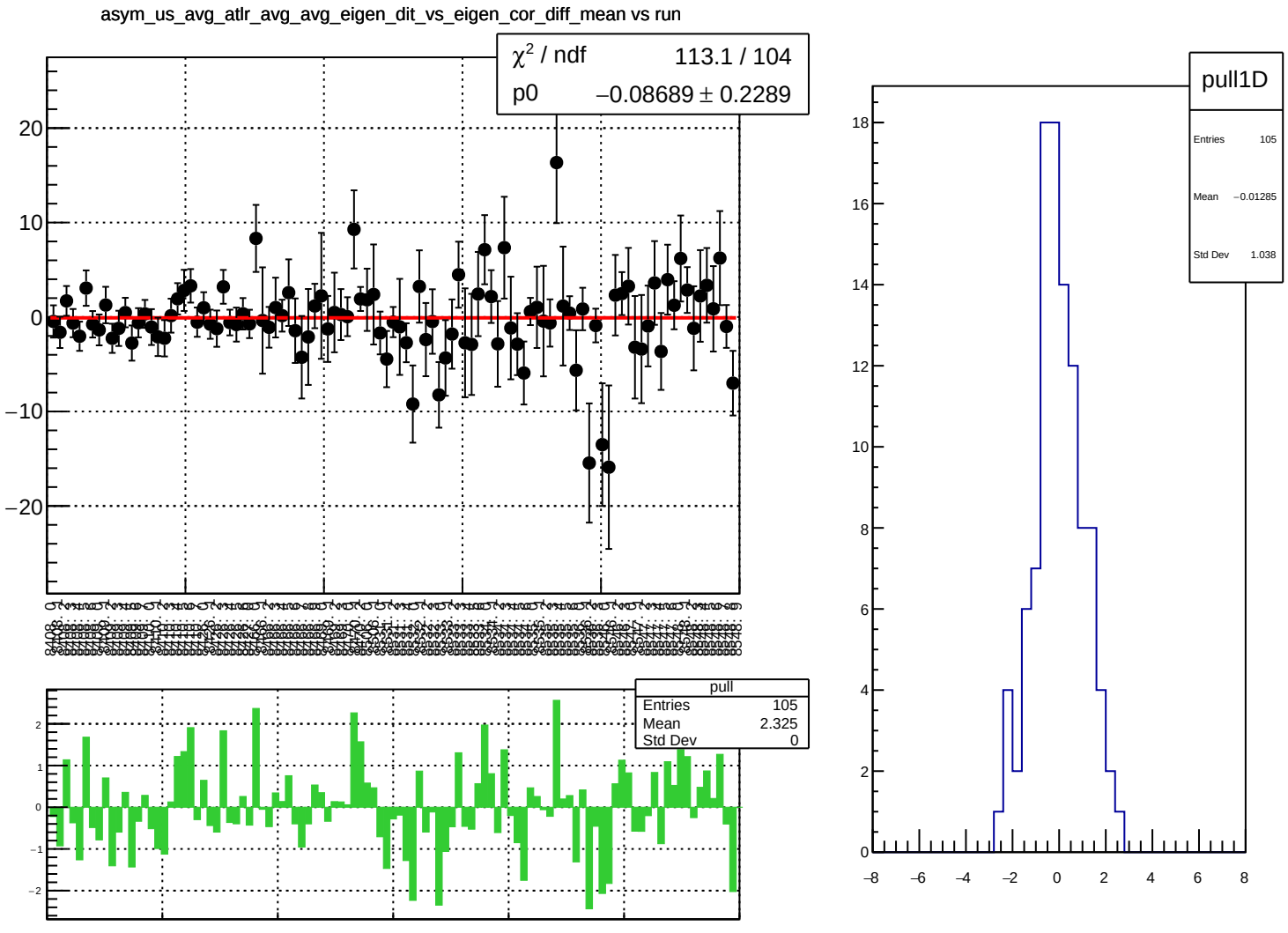

asym_us_avg_atlr_avg_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.404e+05 / 104
p0 211.4 ± 0.1618
800
700
600
500
400
300
200
100

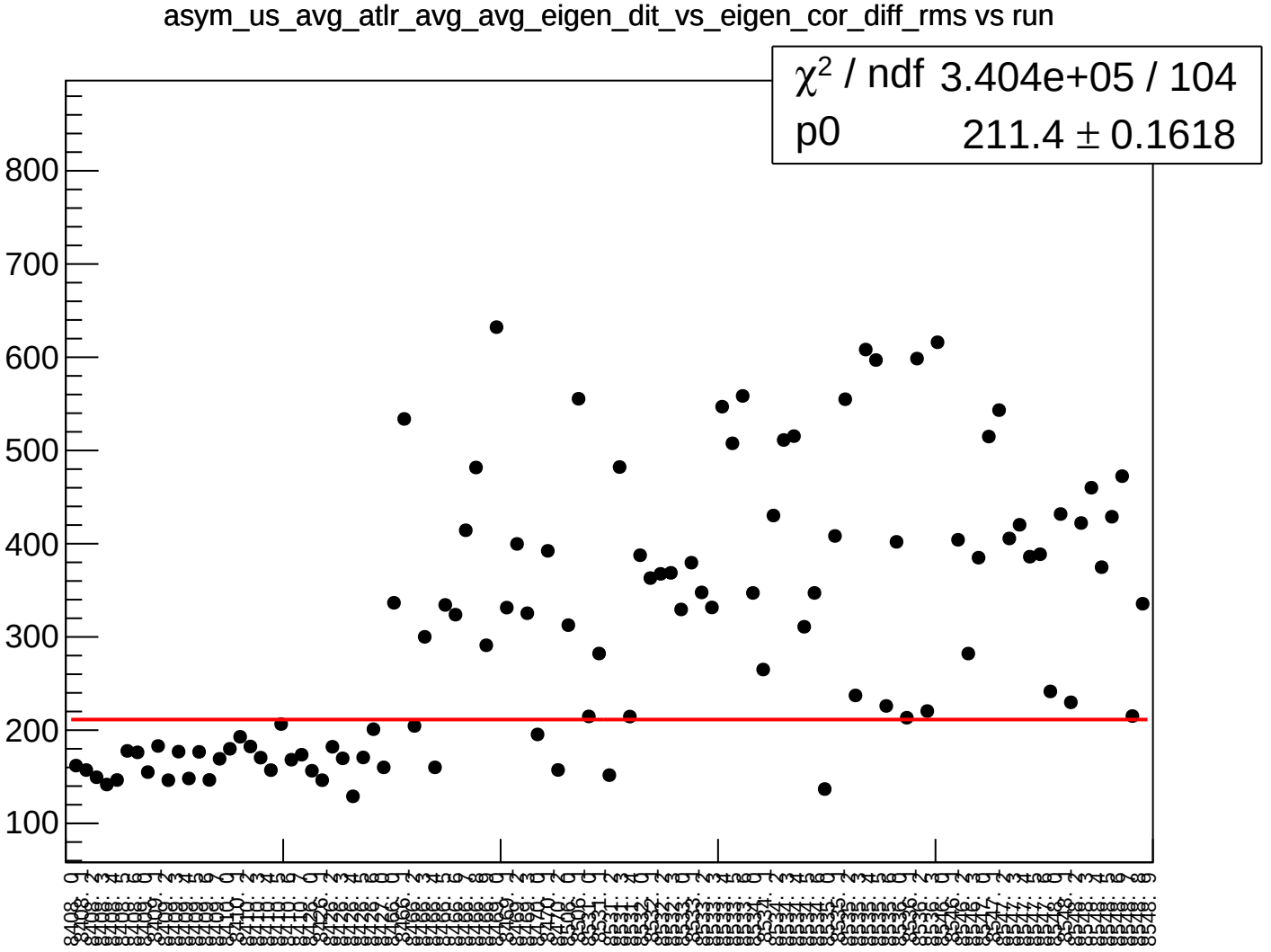

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 120 / 104
p0 −2.996e−06 ± 4.116e−06
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 105
Mean −84.57
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.05439
Std Dev 1.068
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

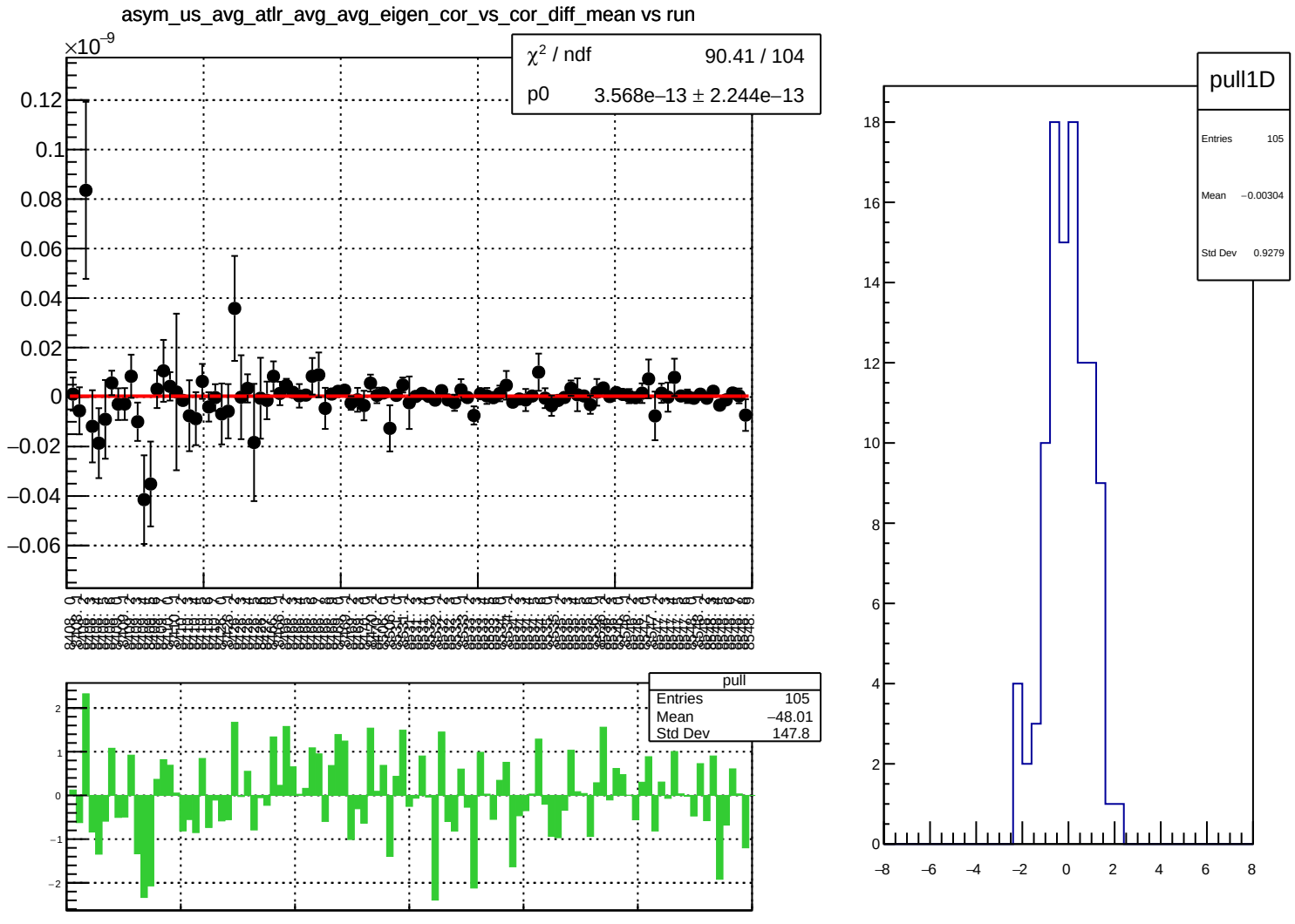

asym_us_avg_atlr_avg_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.208e+05 / 104
p0 0.003932 ± 2.911e−06
0.03
0.025
0.02
0.015
0.01
0.005

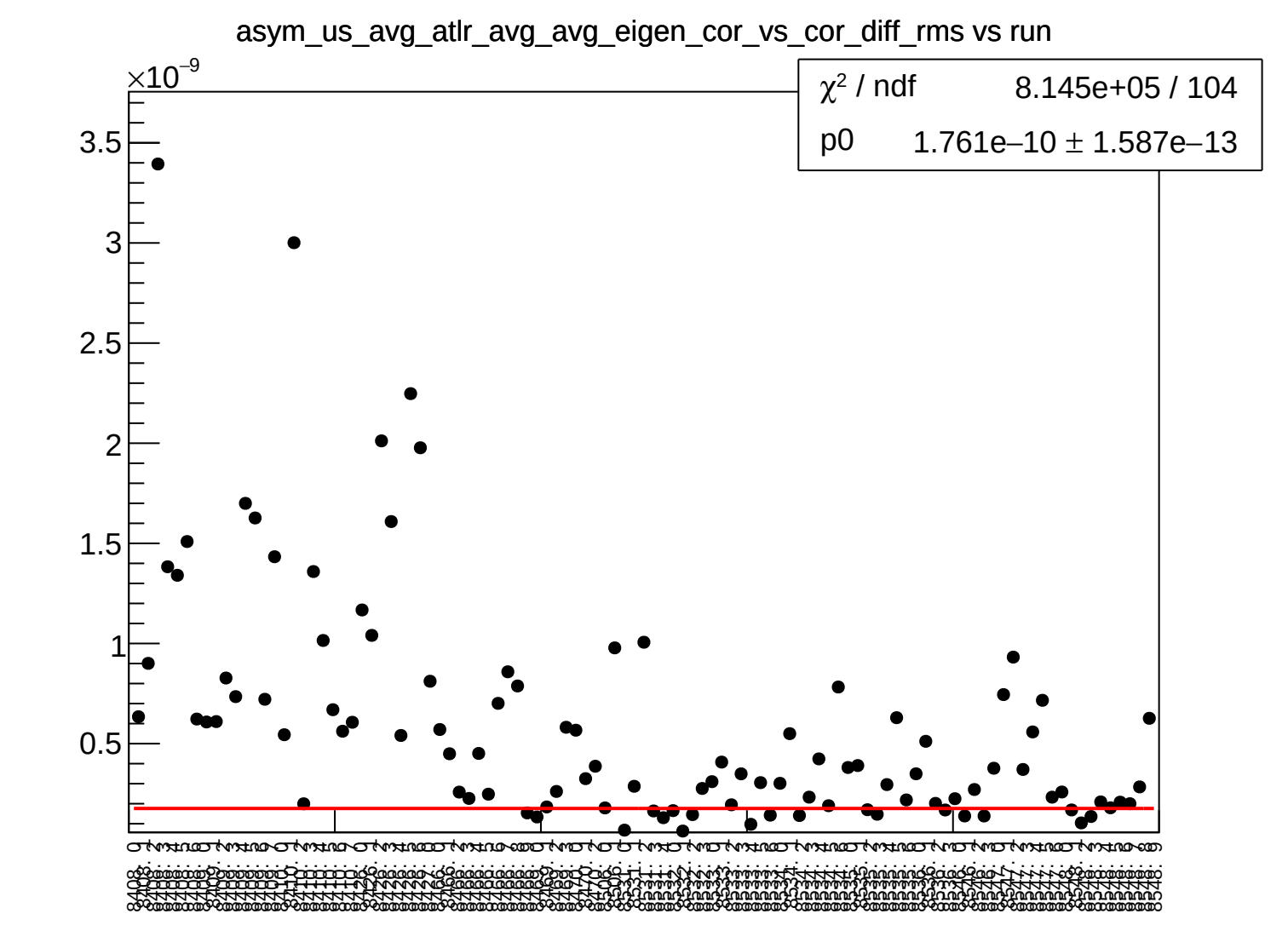

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 113.1 / 104
p0 −0.08689 ± 0.2289
20
10
0
−10
−20
pull
Entries 105
Mean 2.325
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.01285
Std Dev 1.038
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

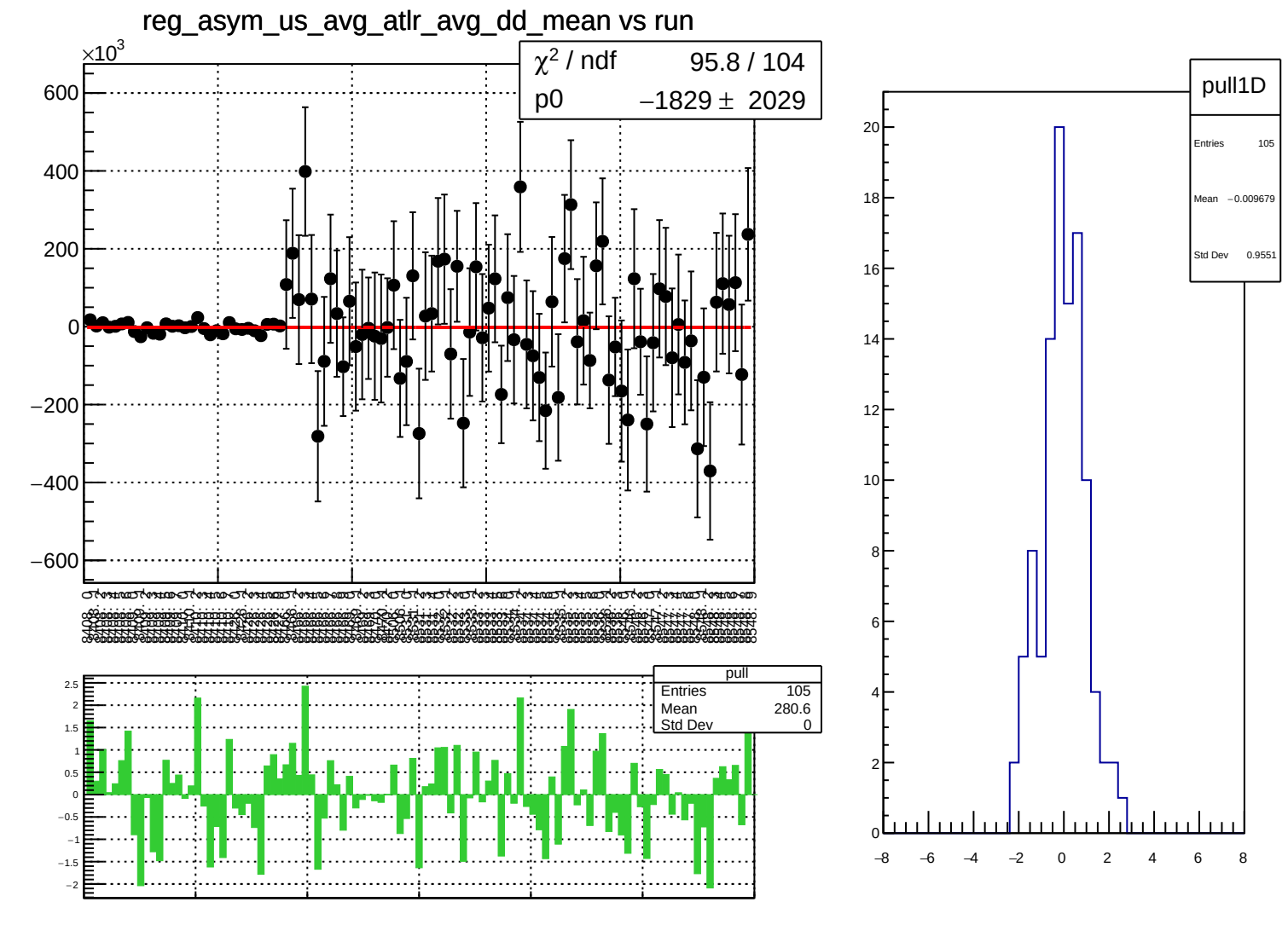

asym_us_avg_atlr_avg_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 3.404e+05 / 104
p0 211.4 ± 0.1618
800
700
600
500
400
300
200
100

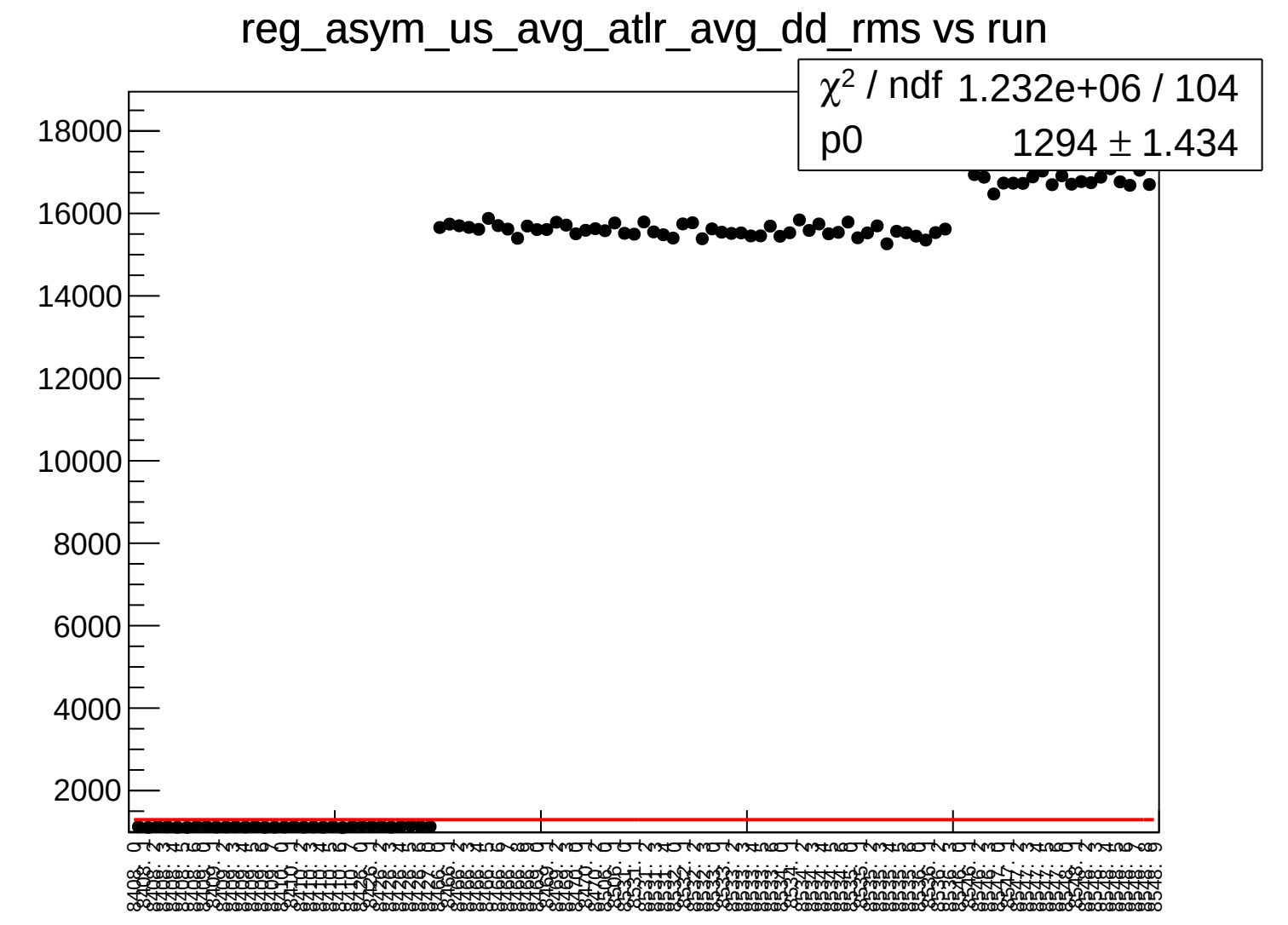

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 113.1 / 104
p0 −0.08689 ± 0.2289
20
10
0
−10
−20
pull
Entries 105
Mean 2.325
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.01285
Std Dev 1.038
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

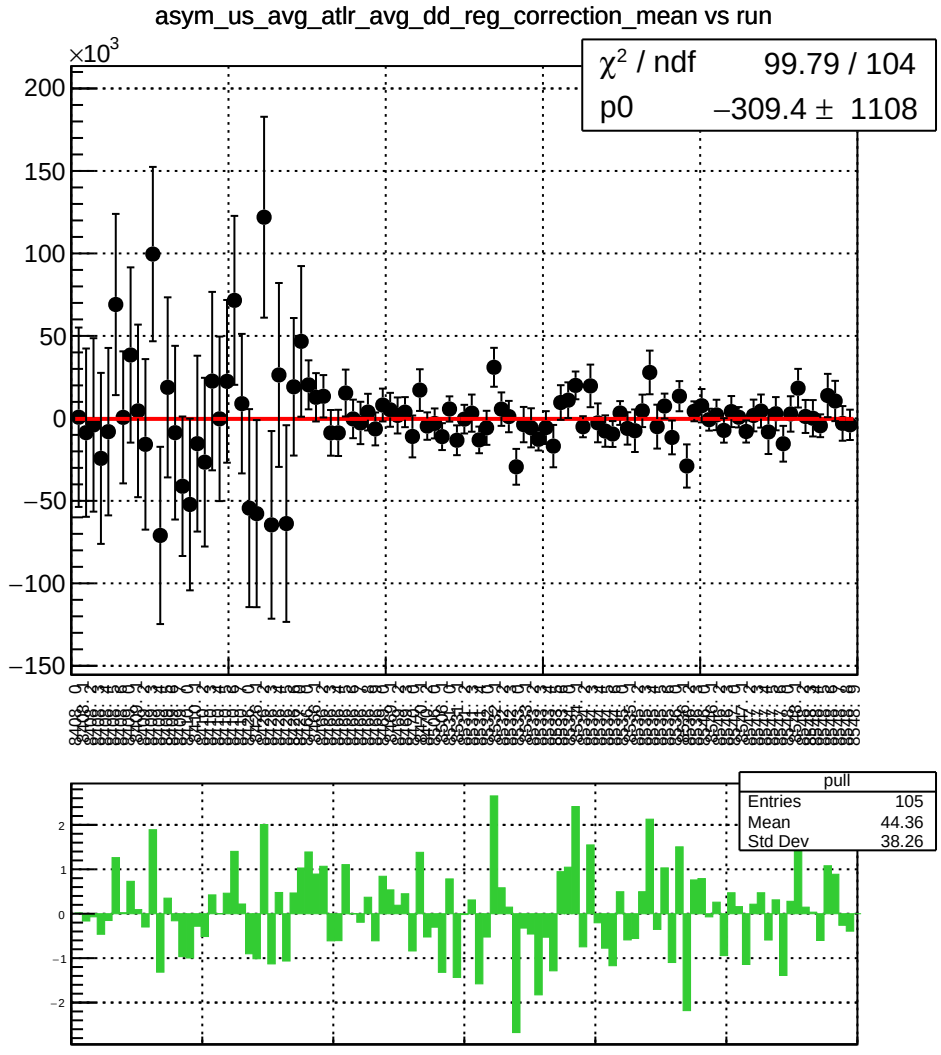

asym_us_avg_atlr_avg_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.404e+05 / 104
p0 211.4 ± 0.1618
800
700
600
500
400
300
200
100

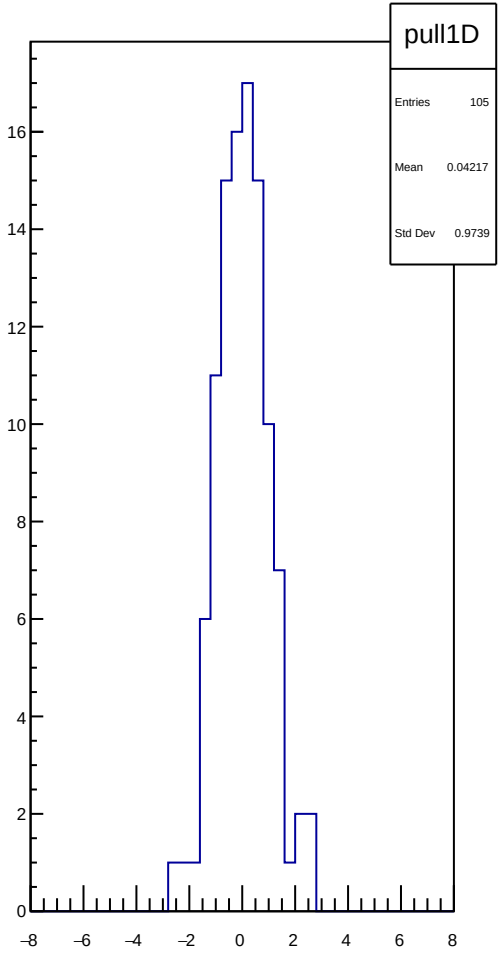

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻⁹
χ² / ndf 90.41 / 104
p0 3.568e−13 ± 2.244e−13
0.12
0.1
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 105
Mean −48.01
Std Dev 147.8
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.00304
Std Dev 0.9279
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

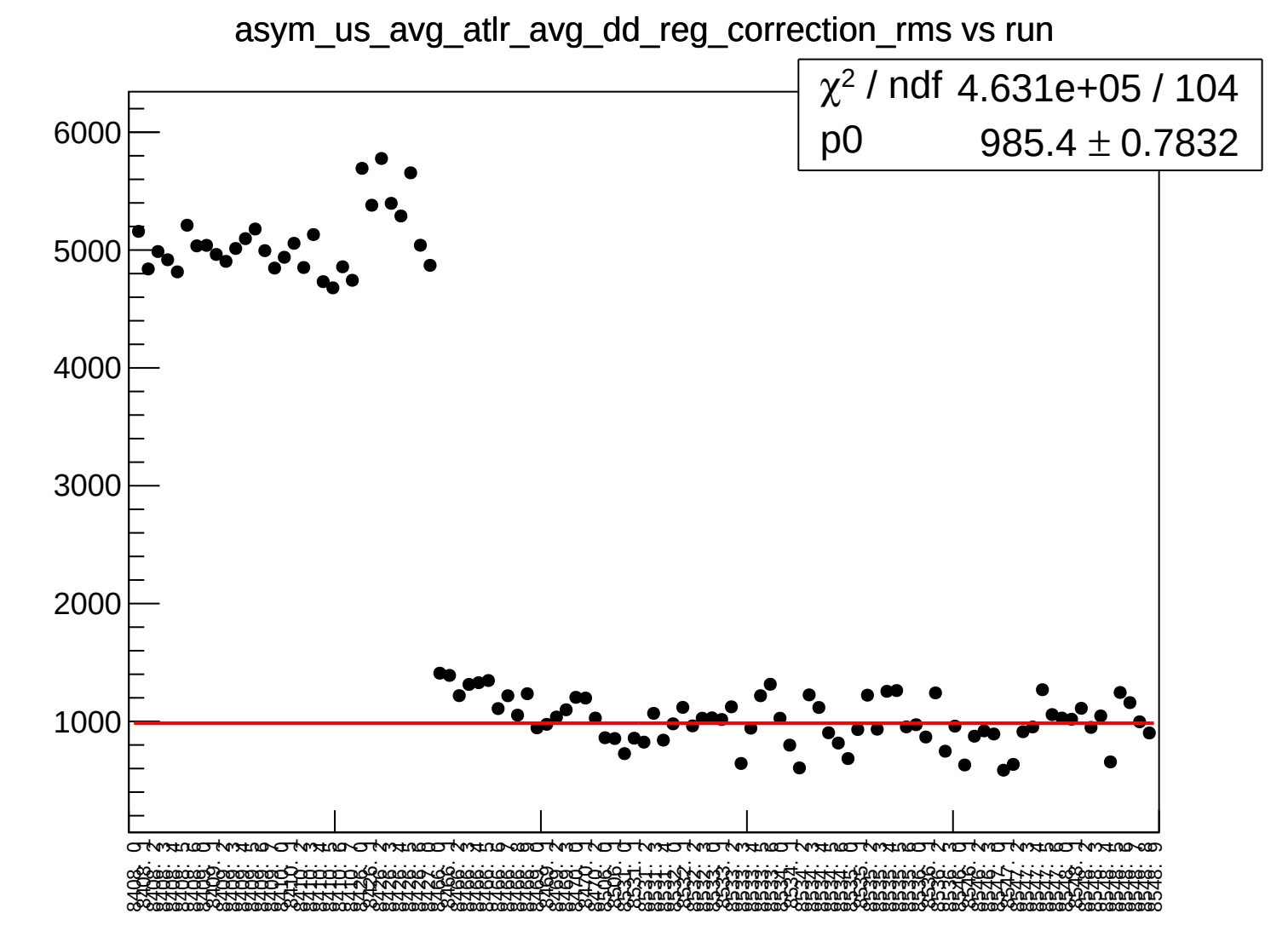

asym_us_avg_atlr_avg_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.145e+05 / 104
p0 1.761e−10 ± 1.587e−13
3.5
3
2.5
2
1.5
1
0.5

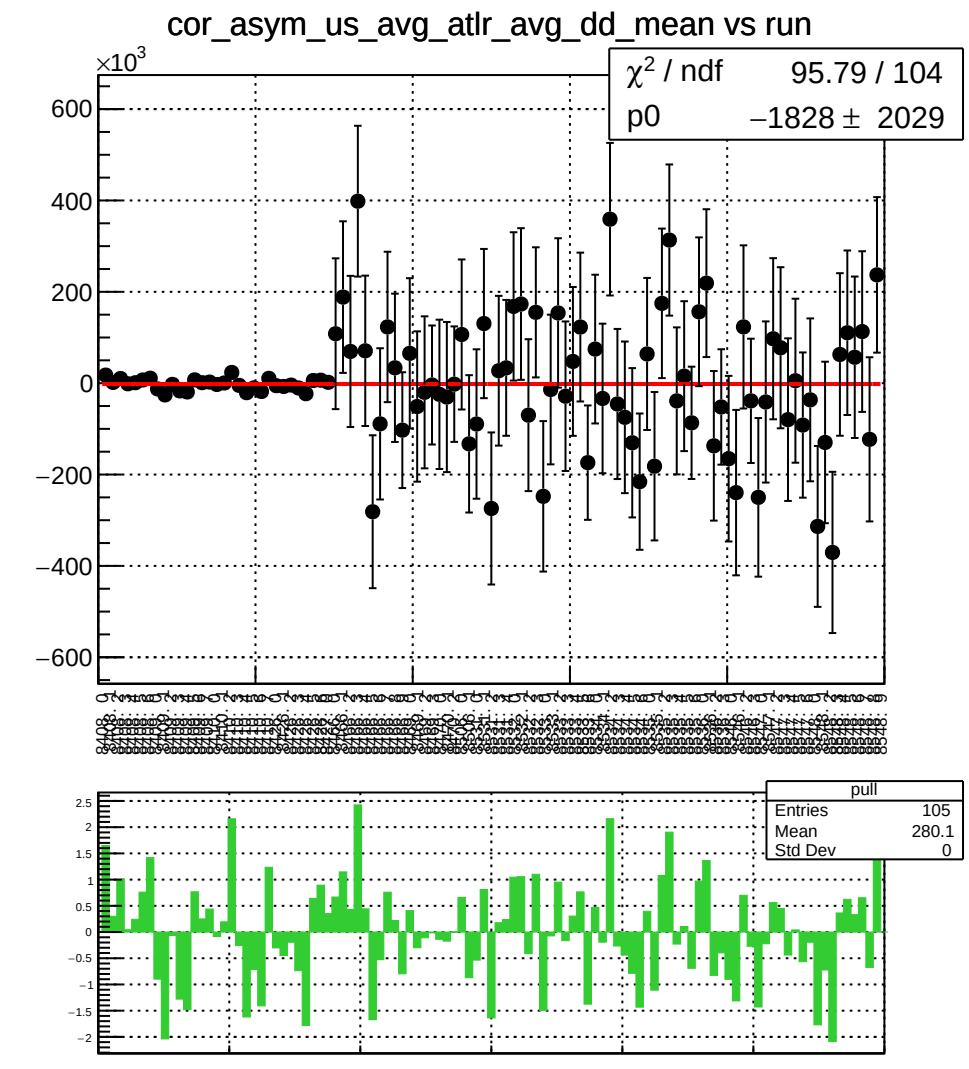

reg_asym_us_avg_atlr_avg_dd_mean vs run
×10^3
600
400
200
0
−200
−400
−600
χ² / ndf 95.8 / 104
p0 −1829 ± 2029
pull
Entries 105
Mean 280.6
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 105
Mean −0.009679
Std Dev 0.9551
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

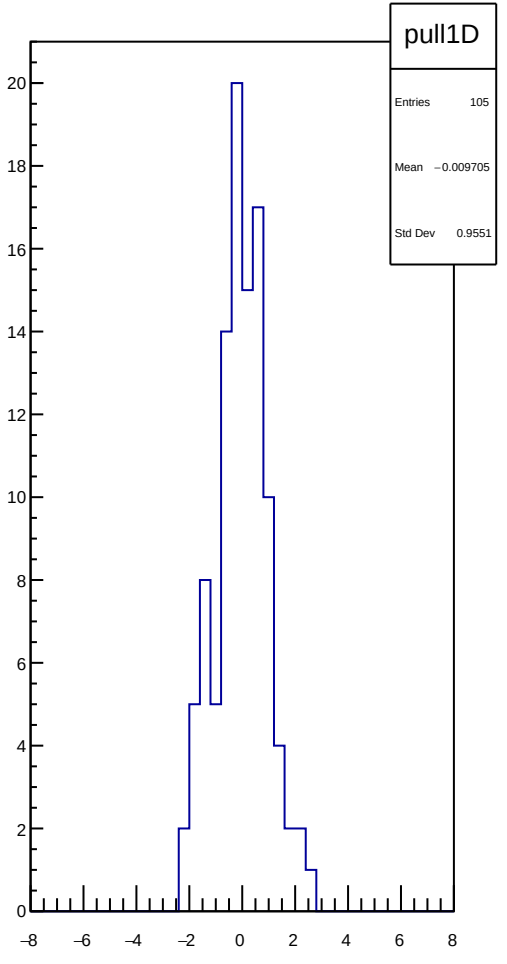

reg_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 1.232e+06 / 104
p0 1294 ± 1.434
18000
16000
14000
12000
10000
8000
6000
4000
2000

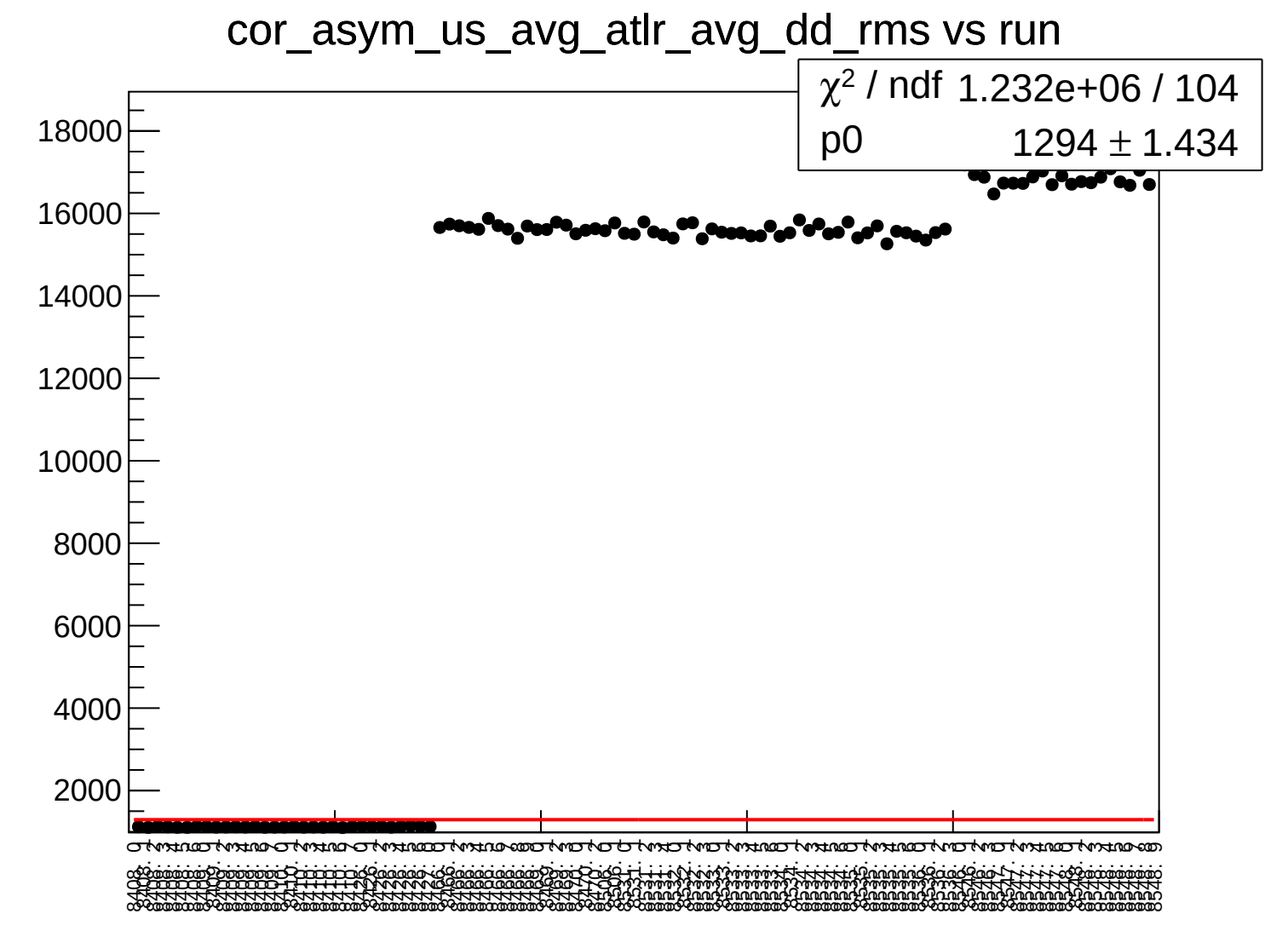

asym_us_avg_atlr_avg_dd_reg_correction_mean vs run
×10^3
χ² / ndf 99.79 / 104
p0 −309.4 ± 1108
pull
Entries 105
Mean 44.36
Std Dev 38.26

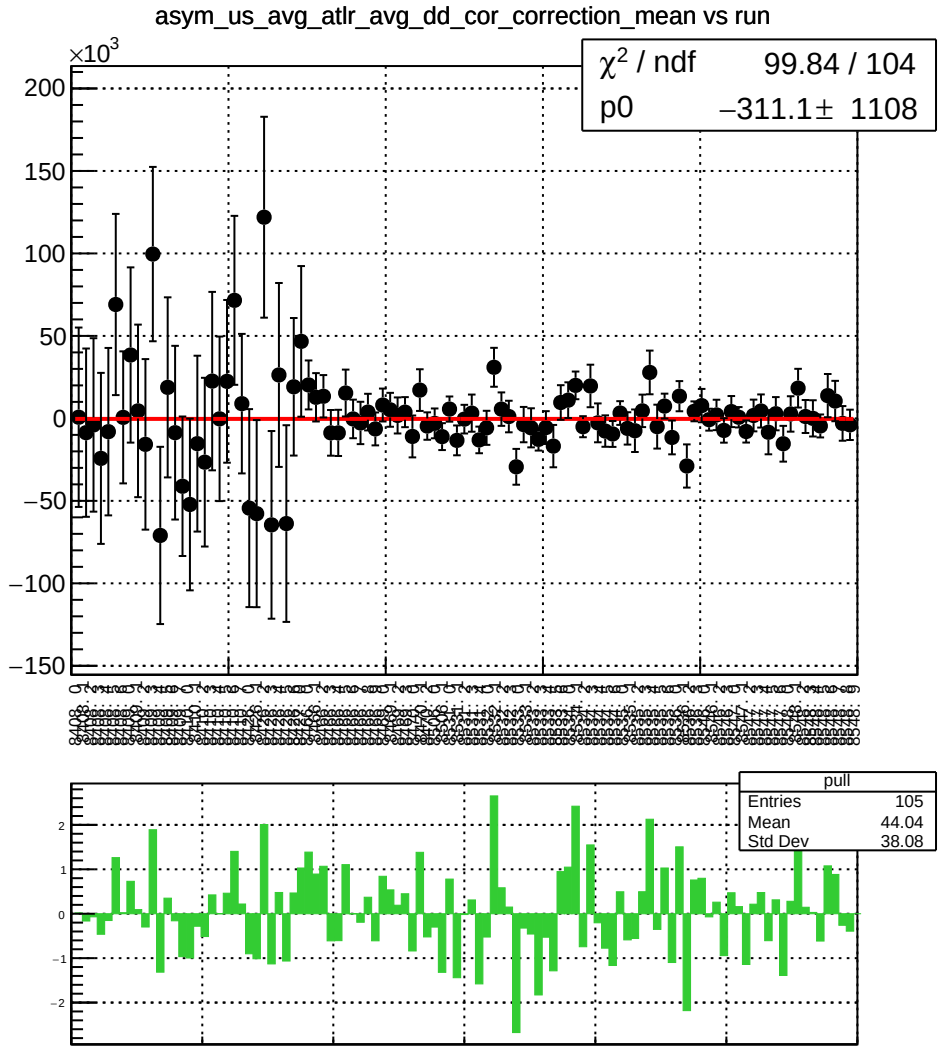

pull1D
Entries 105
Mean 0.04217
Std Dev 0.9739

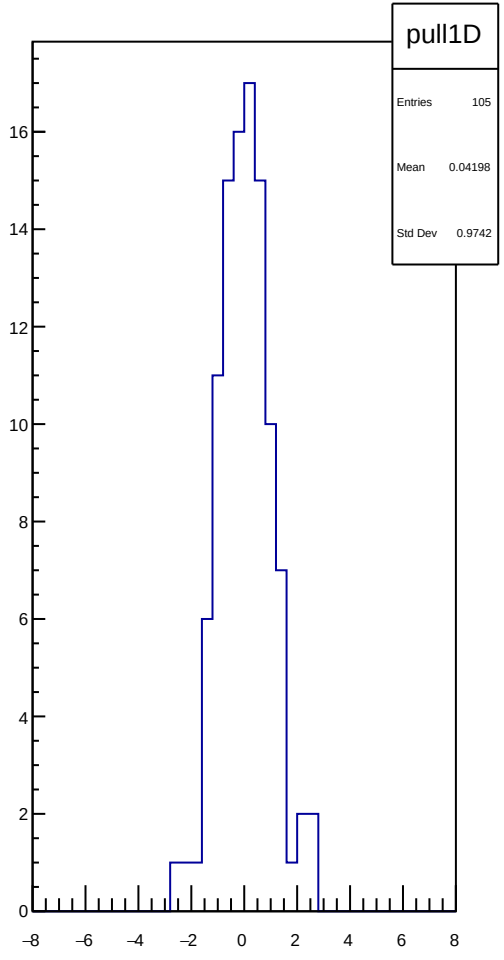

asym_us_avg_atlr_avg_dd_reg_correction_rms vs run
χ² / ndf 4.631e+05 / 104
p0 985.4 ± 0.7832
6000
5000
4000
3000
2000
1000

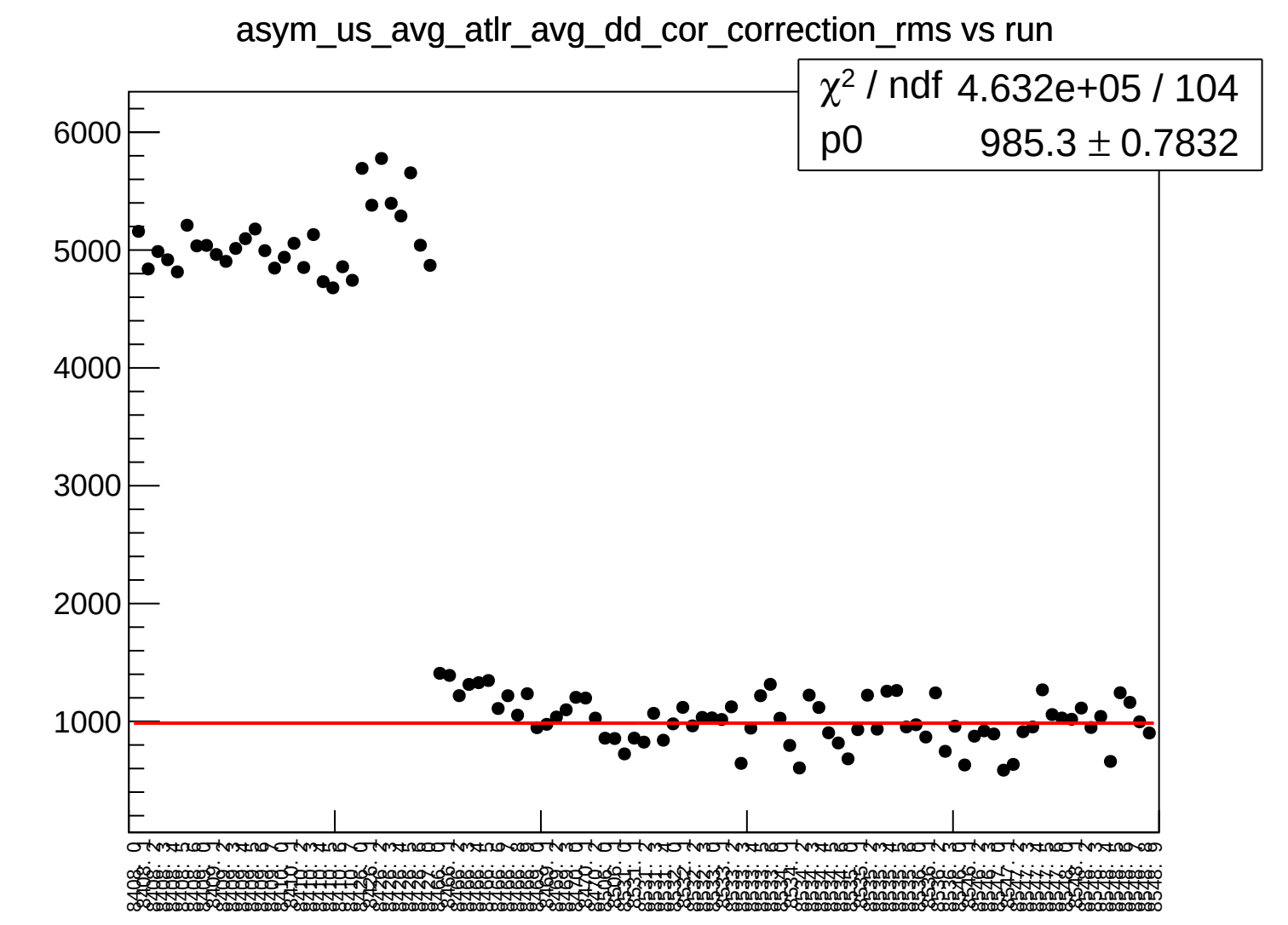

cor_asym_us_avg_atlr_avg_dd_mean vs run
×10^3
χ^2 / ndf 95.79 / 104
p0 −1828 ± 2029
600
400
200
0
−200
−400
−600
pull
Entries 105
Mean 280.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

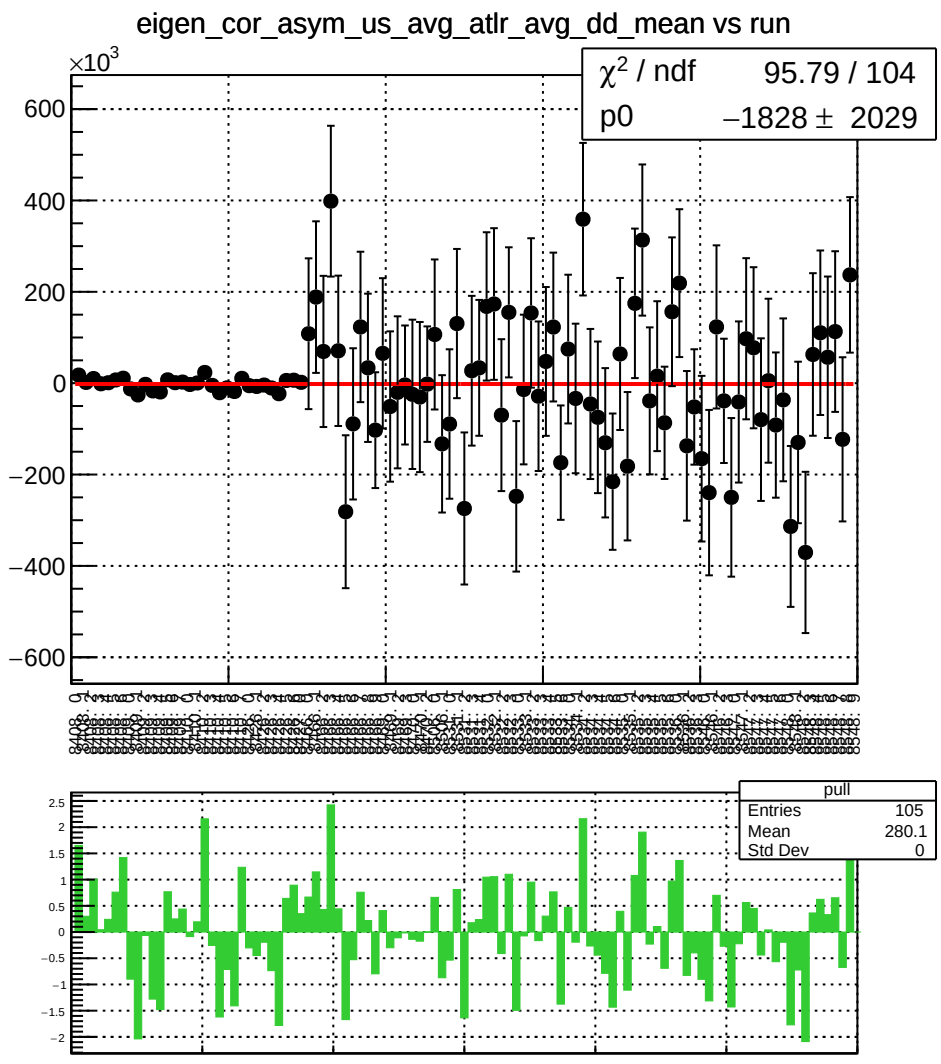

pull1D
Entries 105
Mean −0.009705
Std Dev 0.9551
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

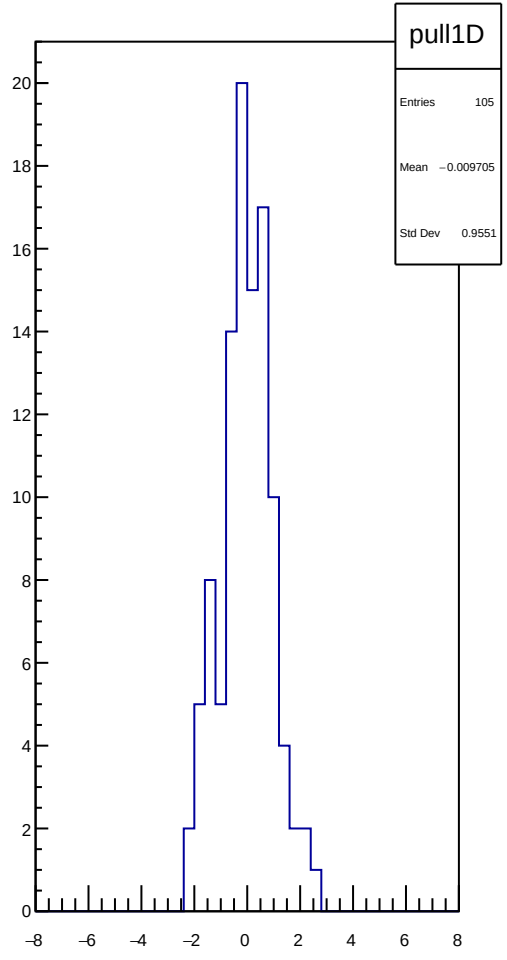

cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 1.232e+06 / 104
p0 1294 ± 1.434
18000
16000
14000
12000
10000
8000
6000
4000
2000

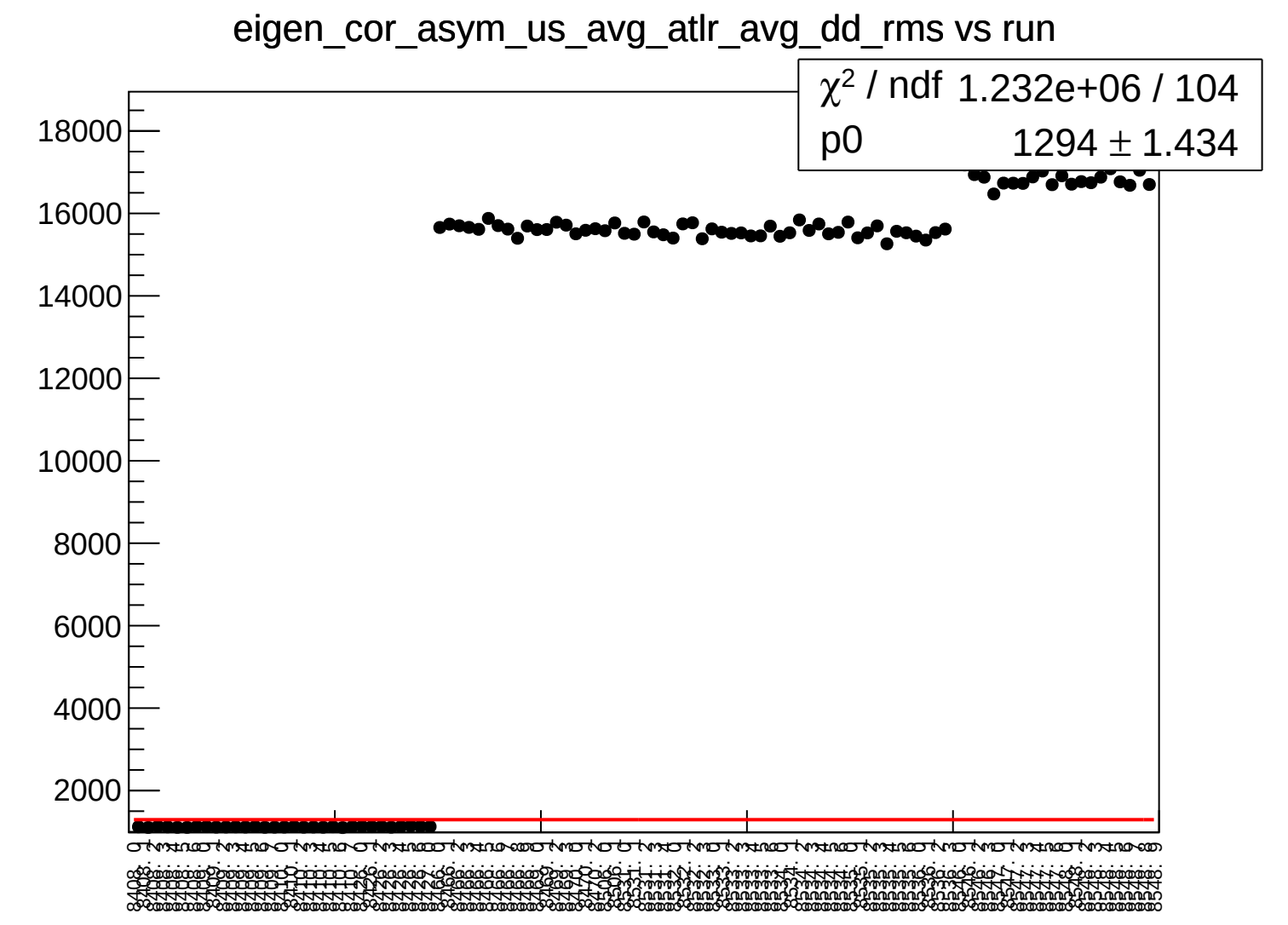

asym_us_avg_atlr_avg_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 99.84 / 104
p0 −311.1± 1108
200
150
100
50
0
−50
−100
−150
pull
Entries 105
Mean 44.04
Std Dev 38.08
2
1
0
−1
−2

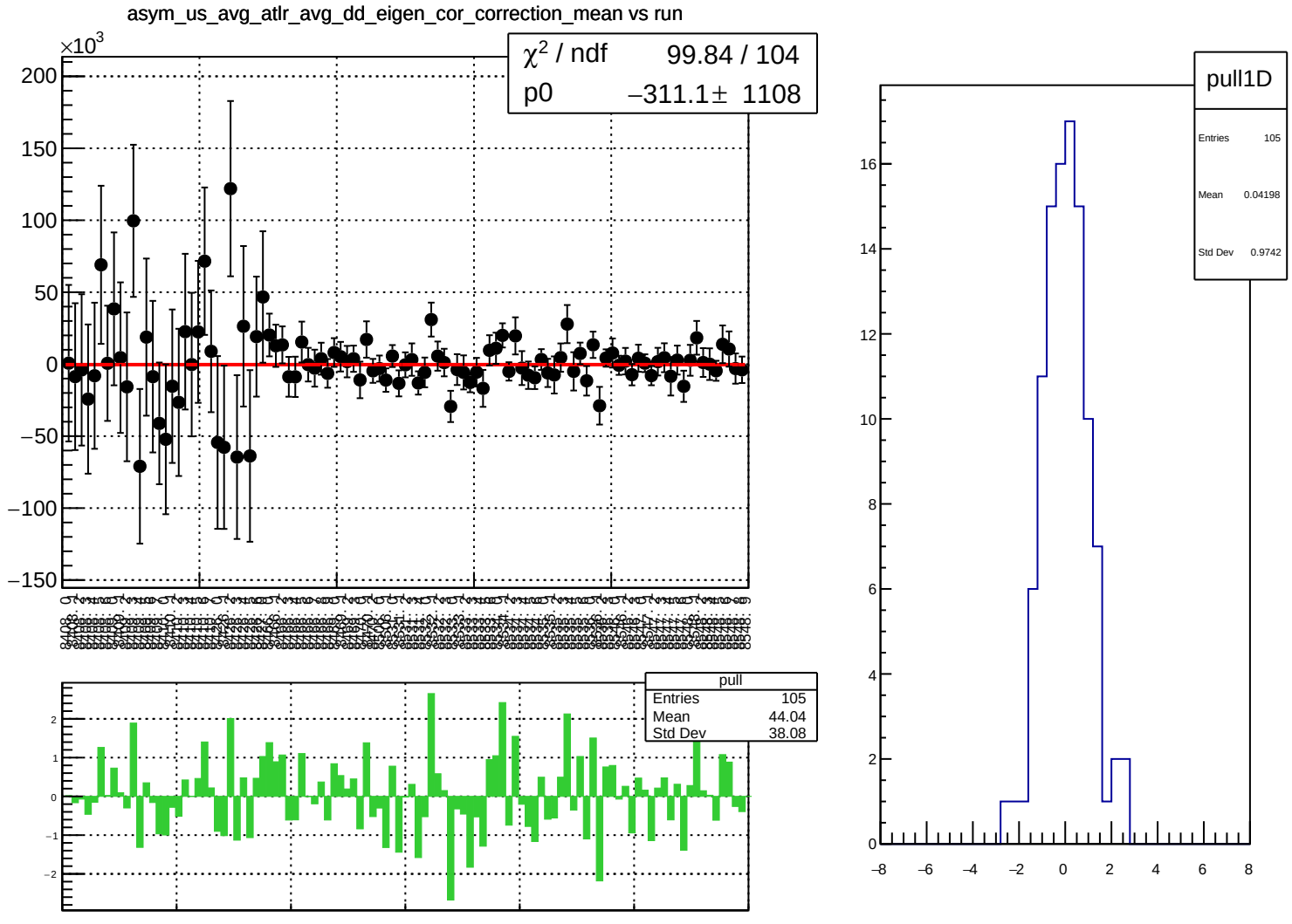

pull1D
Entries 105
Mean 0.04198
Std Dev 0.9742
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

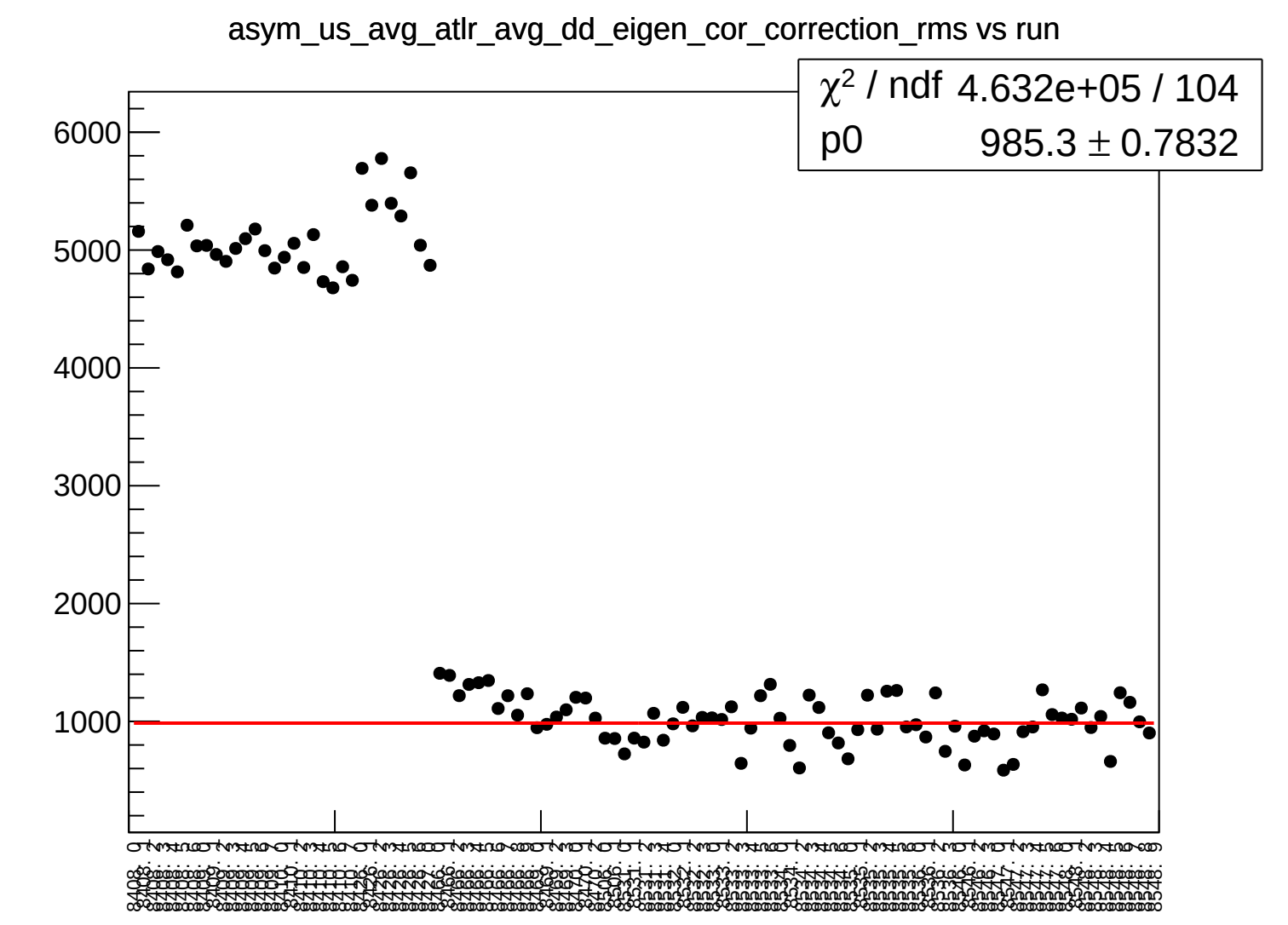

asym_us_avg_atlr_avg_dd_cor_correction_rms vs run
χ² / ndf 4.632e+05 / 104
p0 985.3 ± 0.7832
6000
5000
4000
3000
2000
1000

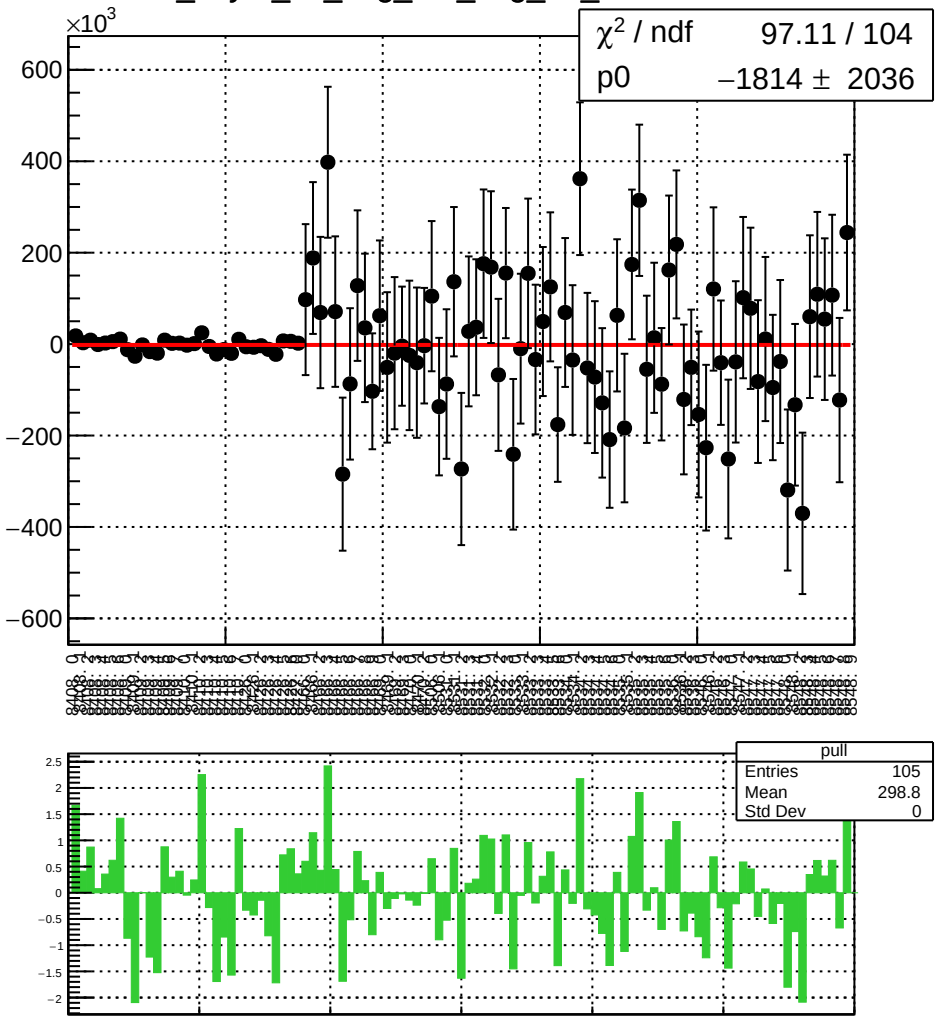

eigen_cor_asym_us_avg_atlr_avg_dd_mean vs run
×10^3
600
400
200
0
−200
−400
−600
χ² / ndf 95.79 / 104
p0 −1828 ± 2029
pull
Entries 105
Mean 280.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

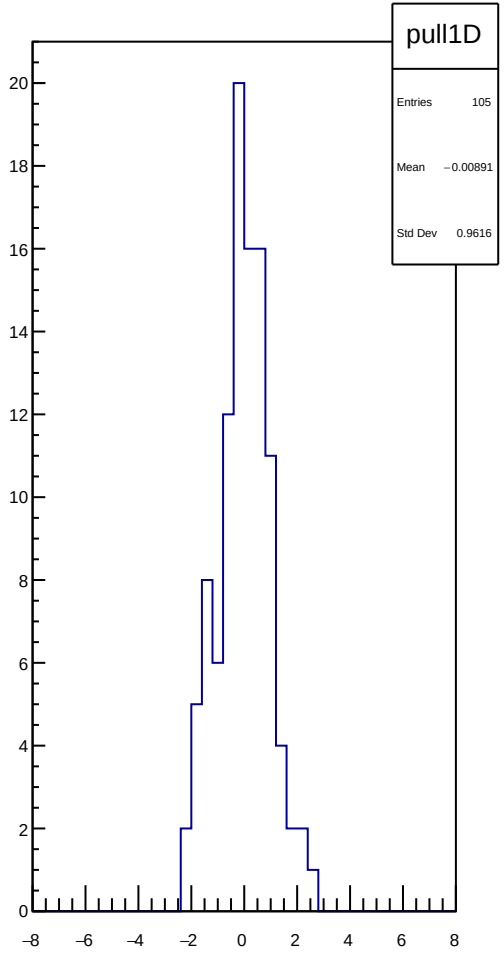

pull1D
Entries 105
Mean −0.009705
Std Dev 0.9551
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

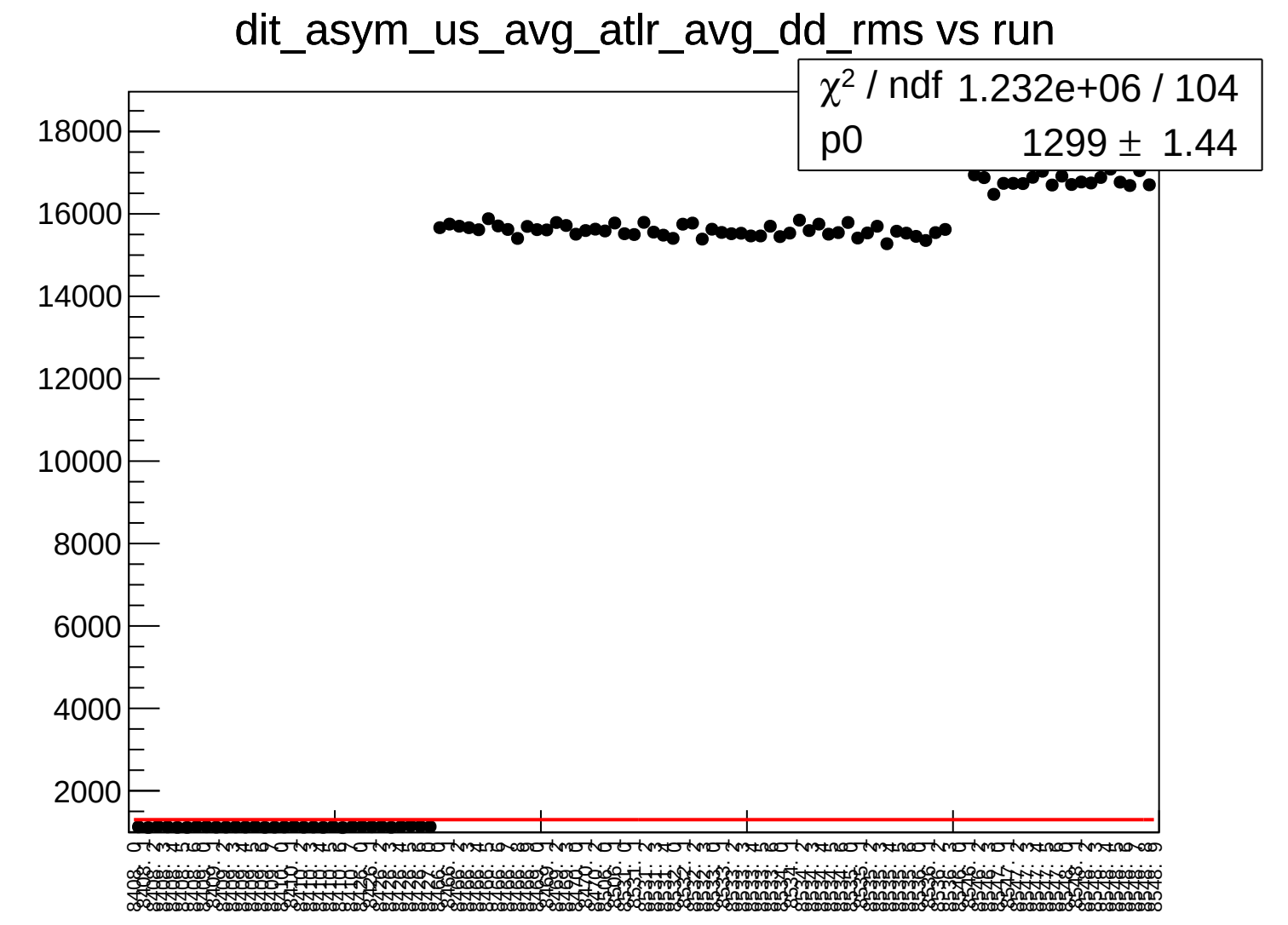

eigen_cor_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 1.232e+06 / 104
p0 1294 ± 1.434
18000
16000
14000
12000
10000
8000
6000
4000
2000

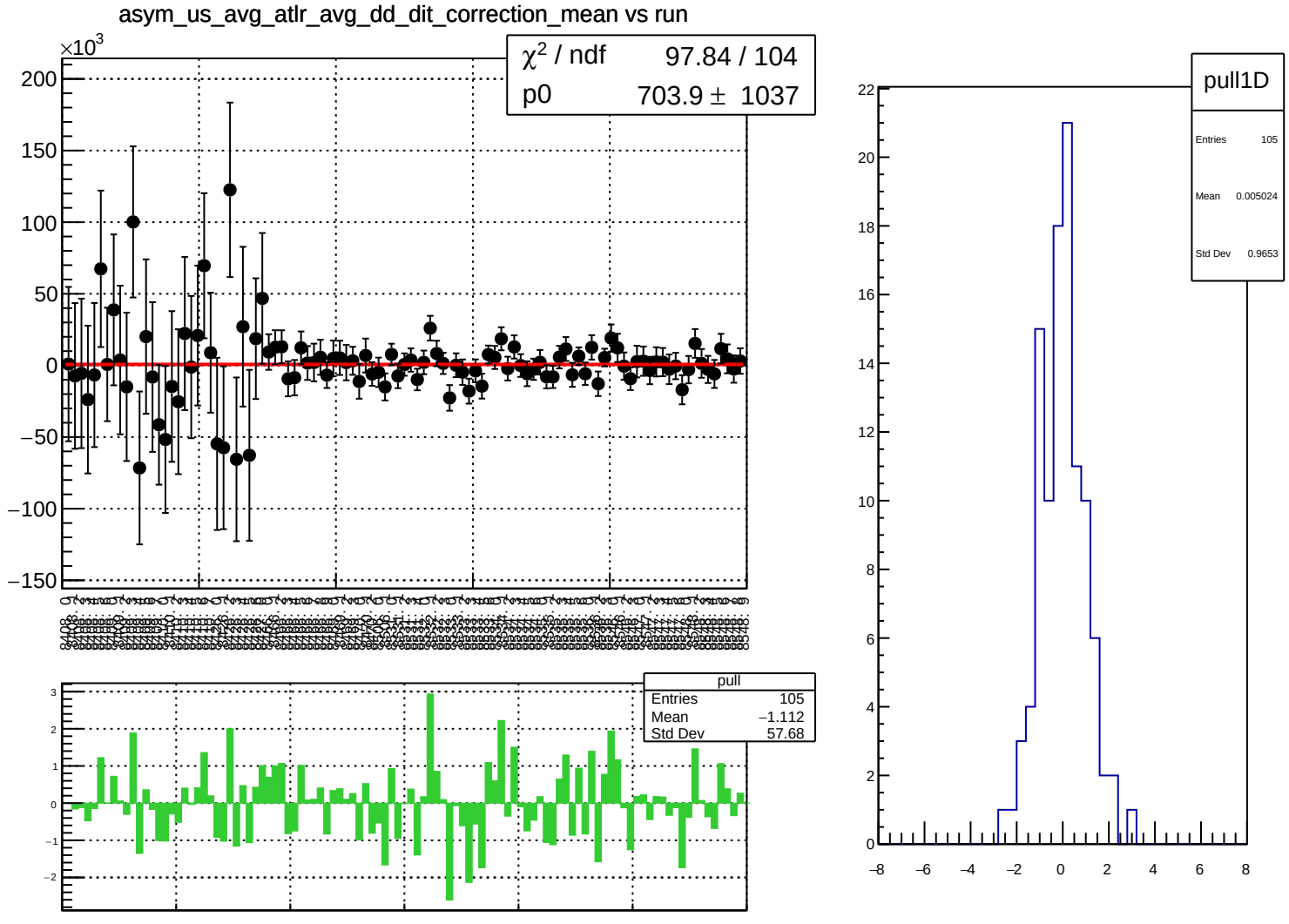

asym_us_avg_atlr_avg_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 99.84 / 104
p0 −311.1± 1108
200
150
100
50
0
−50
−100
−150
pull
Entries 105
Mean 44.04
Std Dev 38.08
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.04198
Std Dev 0.9742
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

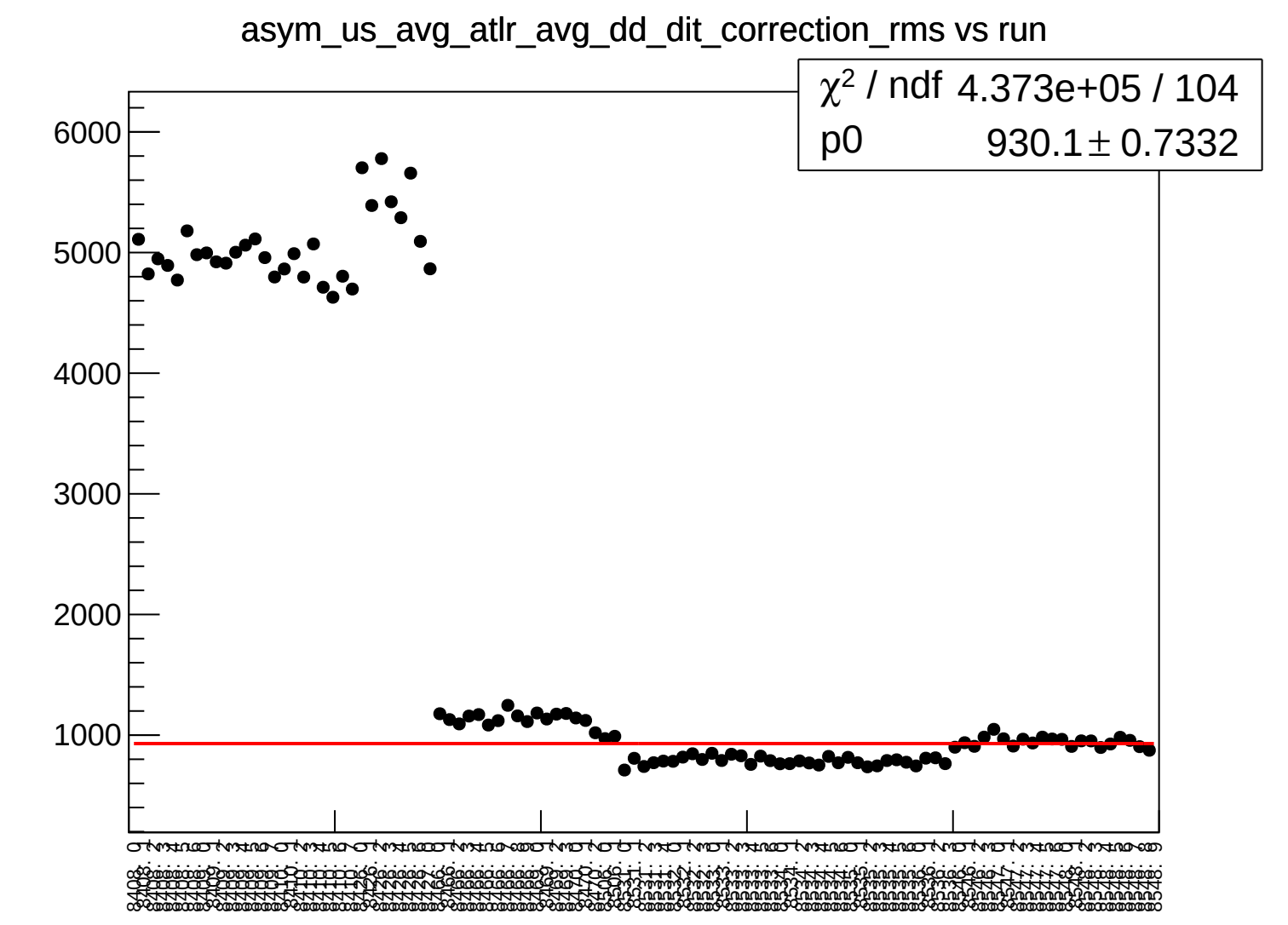

asym_us_avg_atlr_avg_dd_eigen_cor_correction_rms vs run
χ² / ndf 4.632e+05 / 104
p0 985.3 ± 0.7832
6000
5000
4000
3000
2000
1000

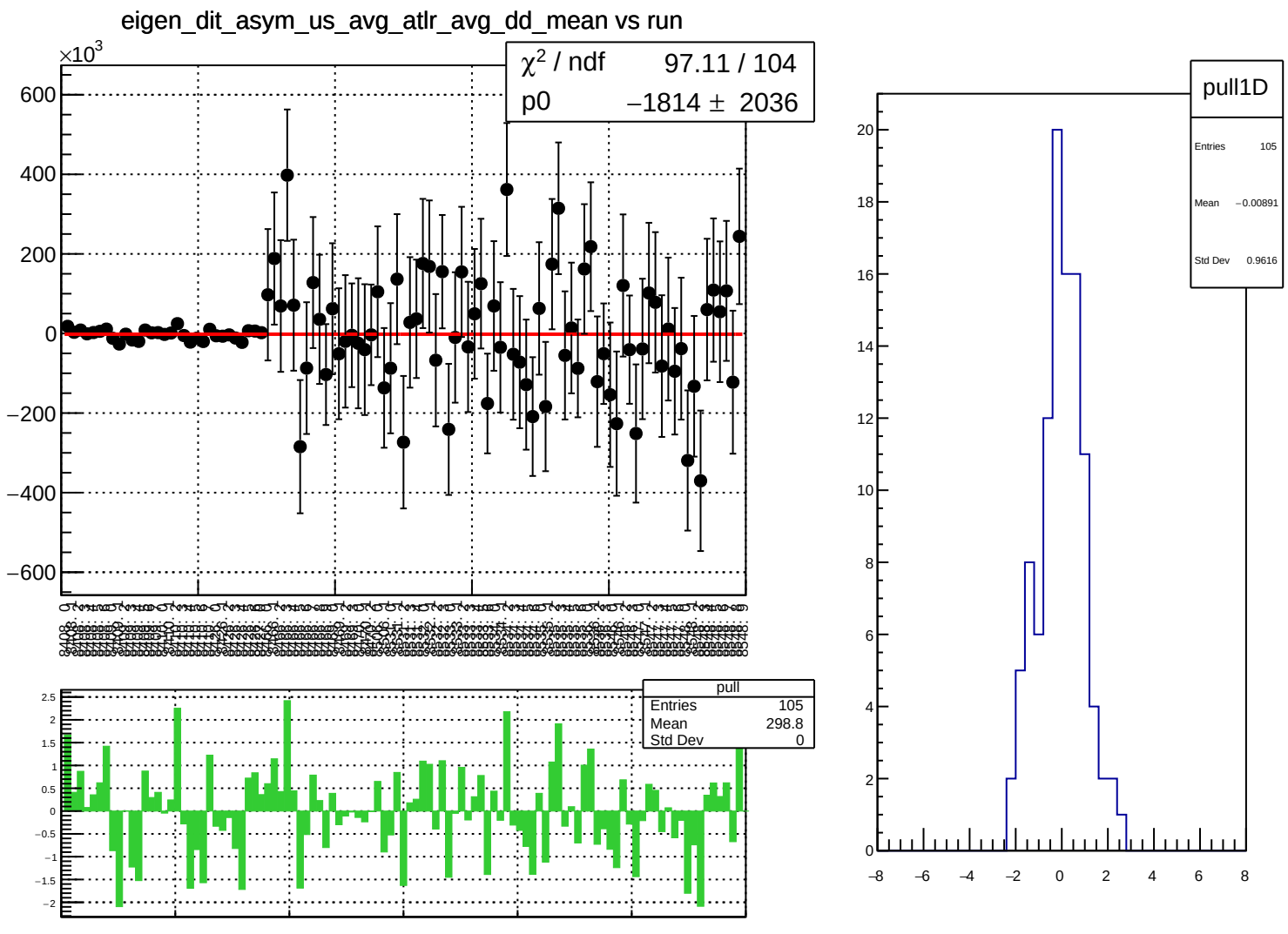

dit_asym_us_avg_atlr_avg_dd_mean vs run
×10^3
χ² / ndf 97.11 / 104
p0 −1814 ± 2036
600
400
200
0
−200
−400
−600
pull
Entries 105
Mean 298.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

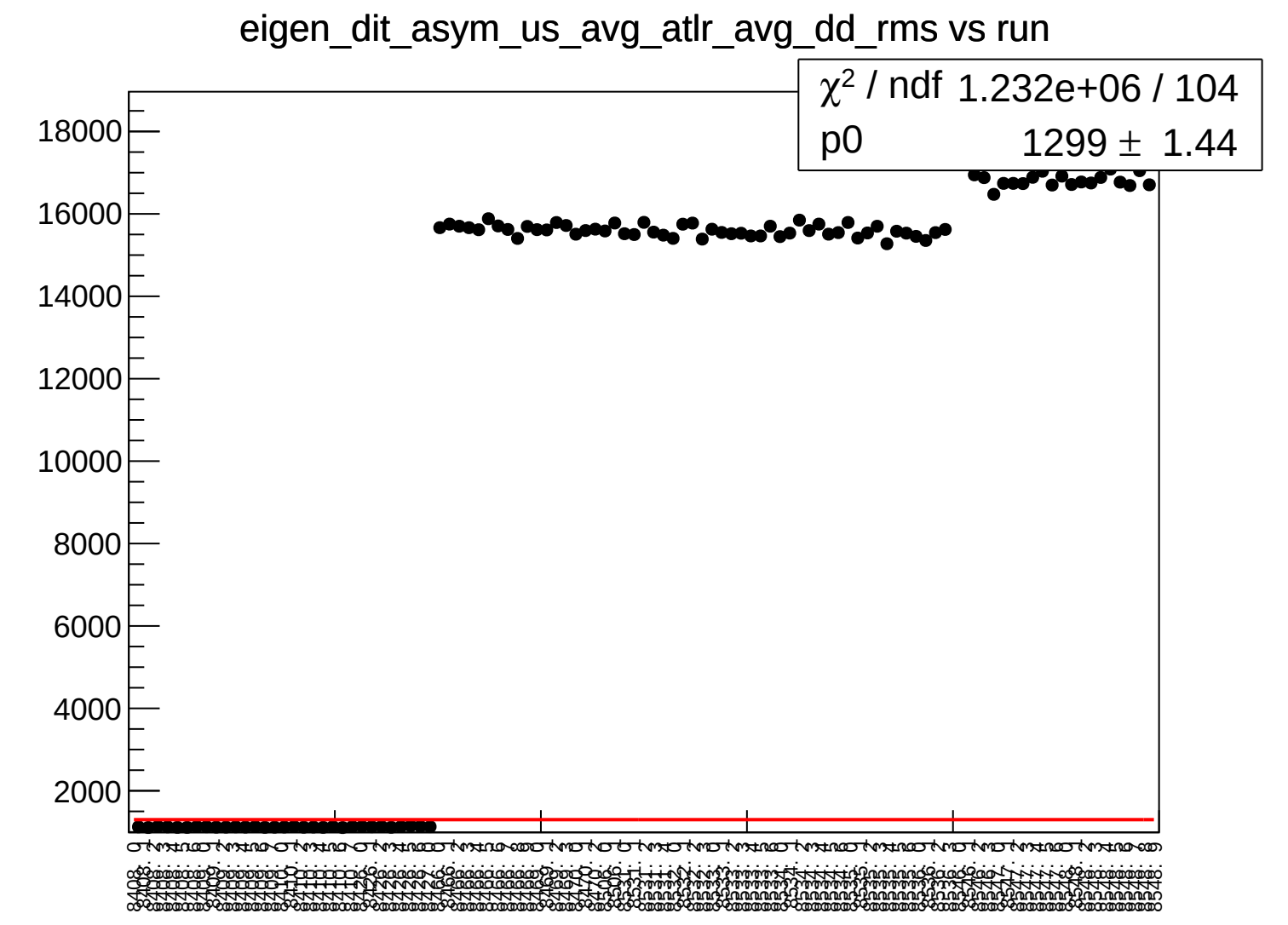

pull1D
Entries 105
Mean −0.00891
Std Dev 0.9616
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

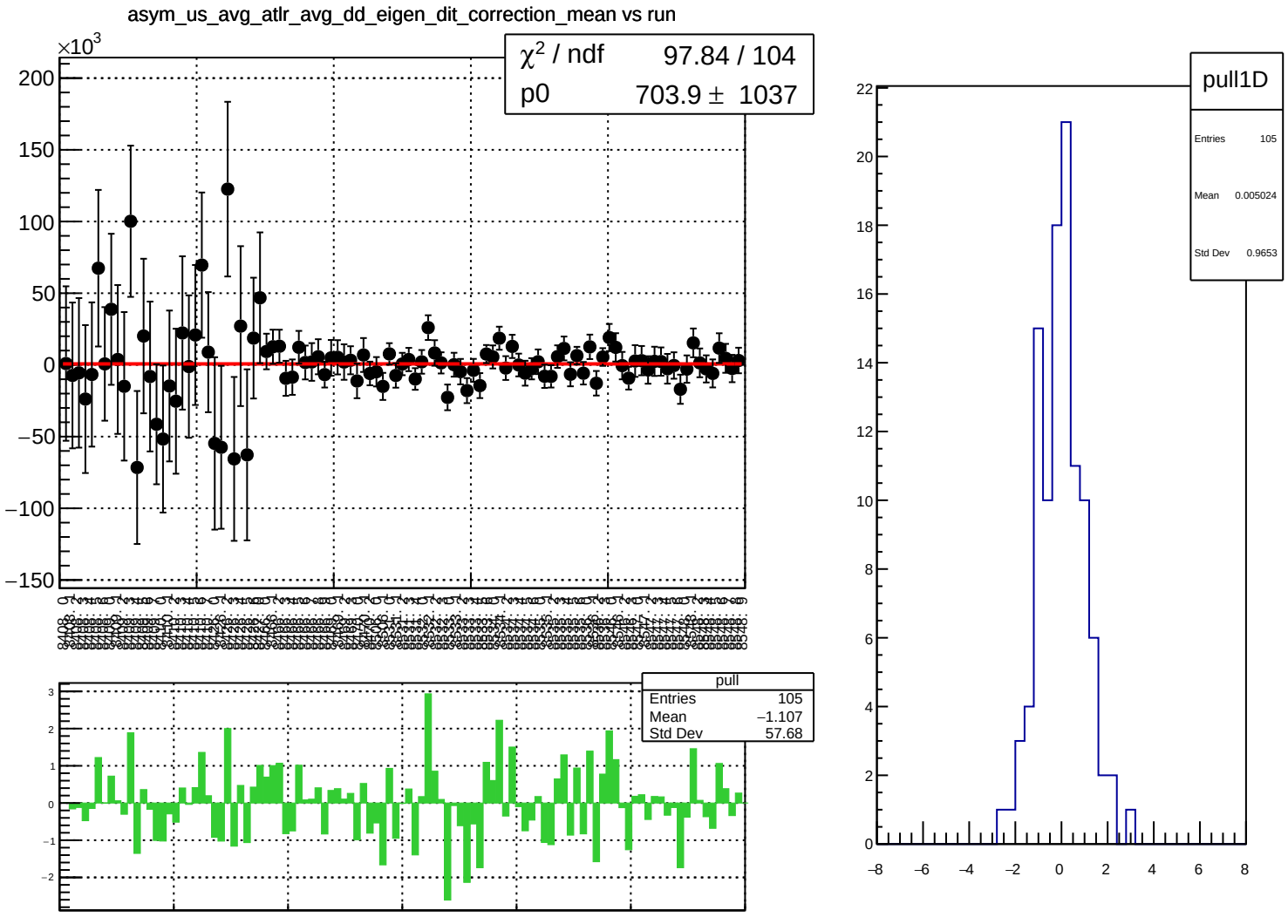

dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 1.232e+06 / 104
p0 1299 ± 1.44
18000
16000
14000
12000
10000
8000
6000
4000
2000

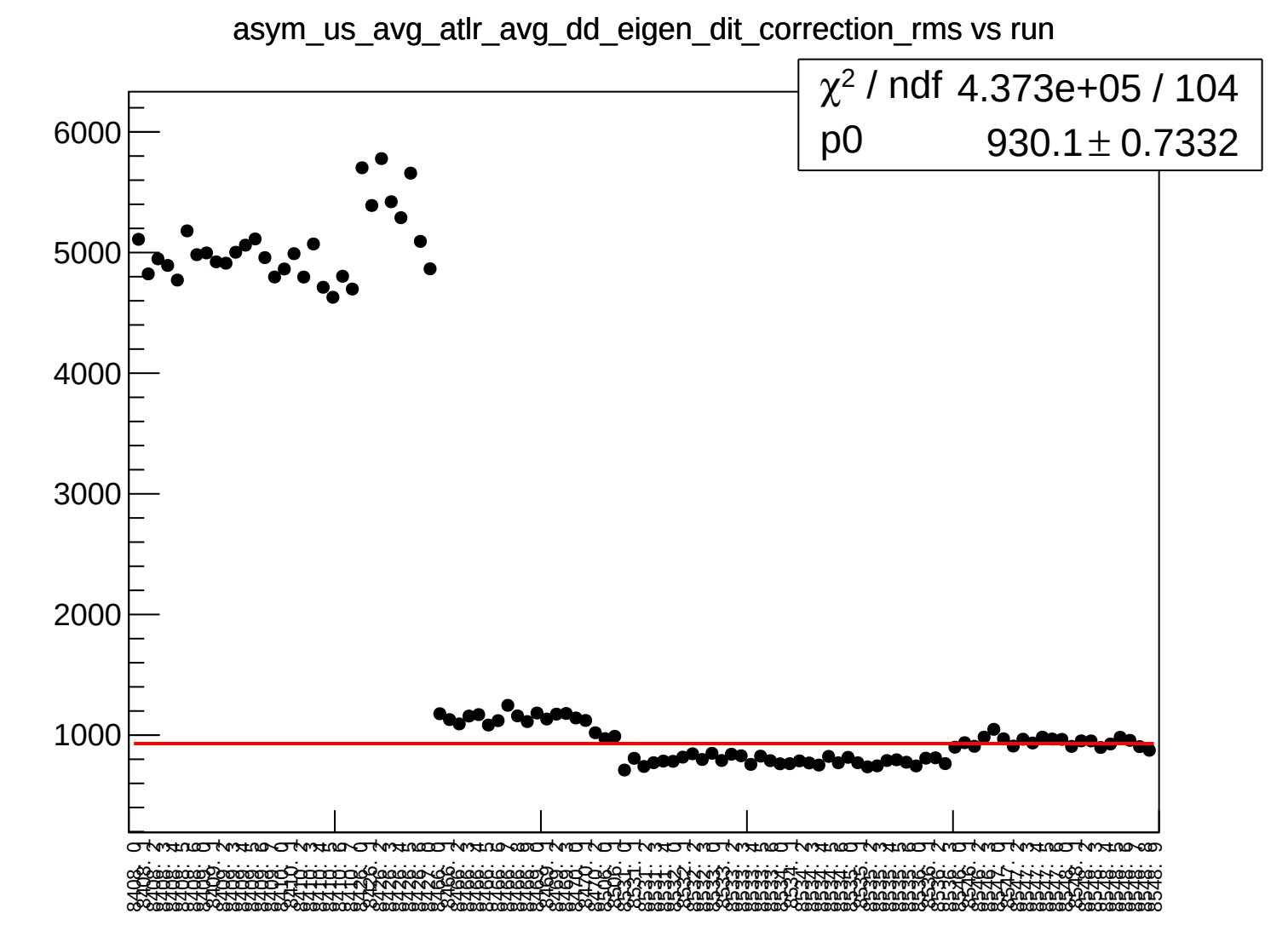

asym_us_avg_atlr_avg_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 97.84 / 104
p0 703.9 ± 1037
200
150
100
50
0
−50
−100
−150
pull
Entries 105
Mean −1.112
Std Dev 57.68
3
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.005024
Std Dev 0.9653
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

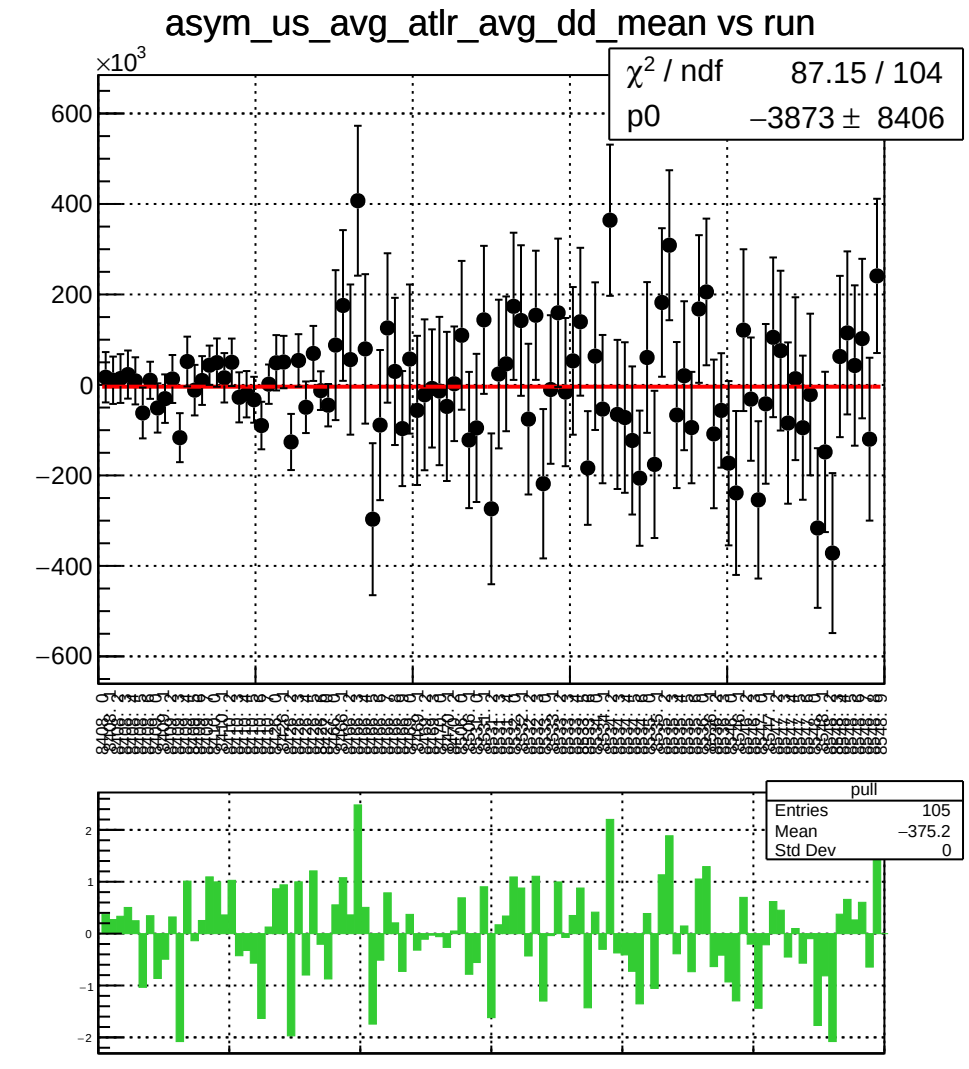

asym_us_avg_atlr_avg_dd_dit_correction_rms vs run
χ² / ndf 4.373e+05 / 104
p0 930.1 ± 0.7332
6000
5000
4000
3000
2000
1000

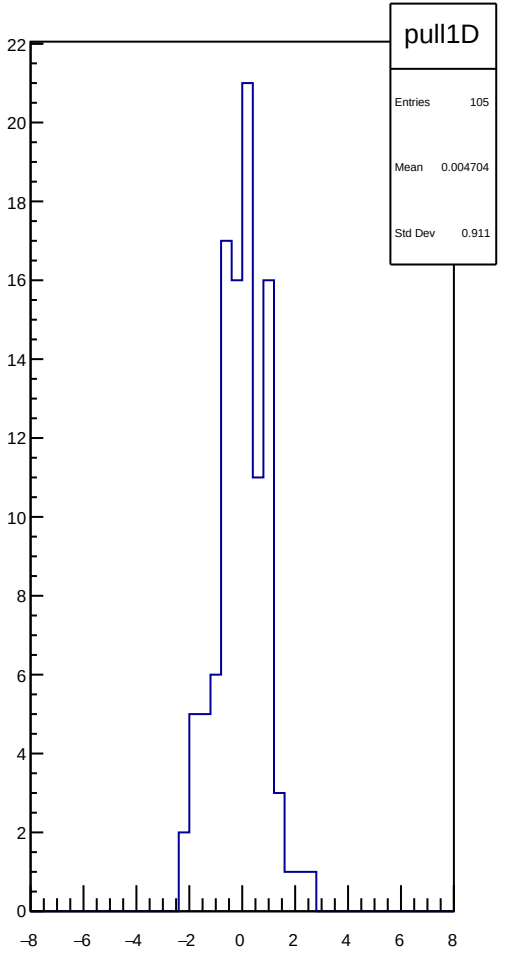

eigen_dit_asym_us_avg_atlr_avg_dd_mean vs run
×10^3
χ² / ndf 97.11 / 104
p0 −1814 ± 2036
600
400
200
0
−200
−400
−600
pull
Entries 105
Mean 298.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 105
Mean −0.00891
Std Dev 0.9616
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

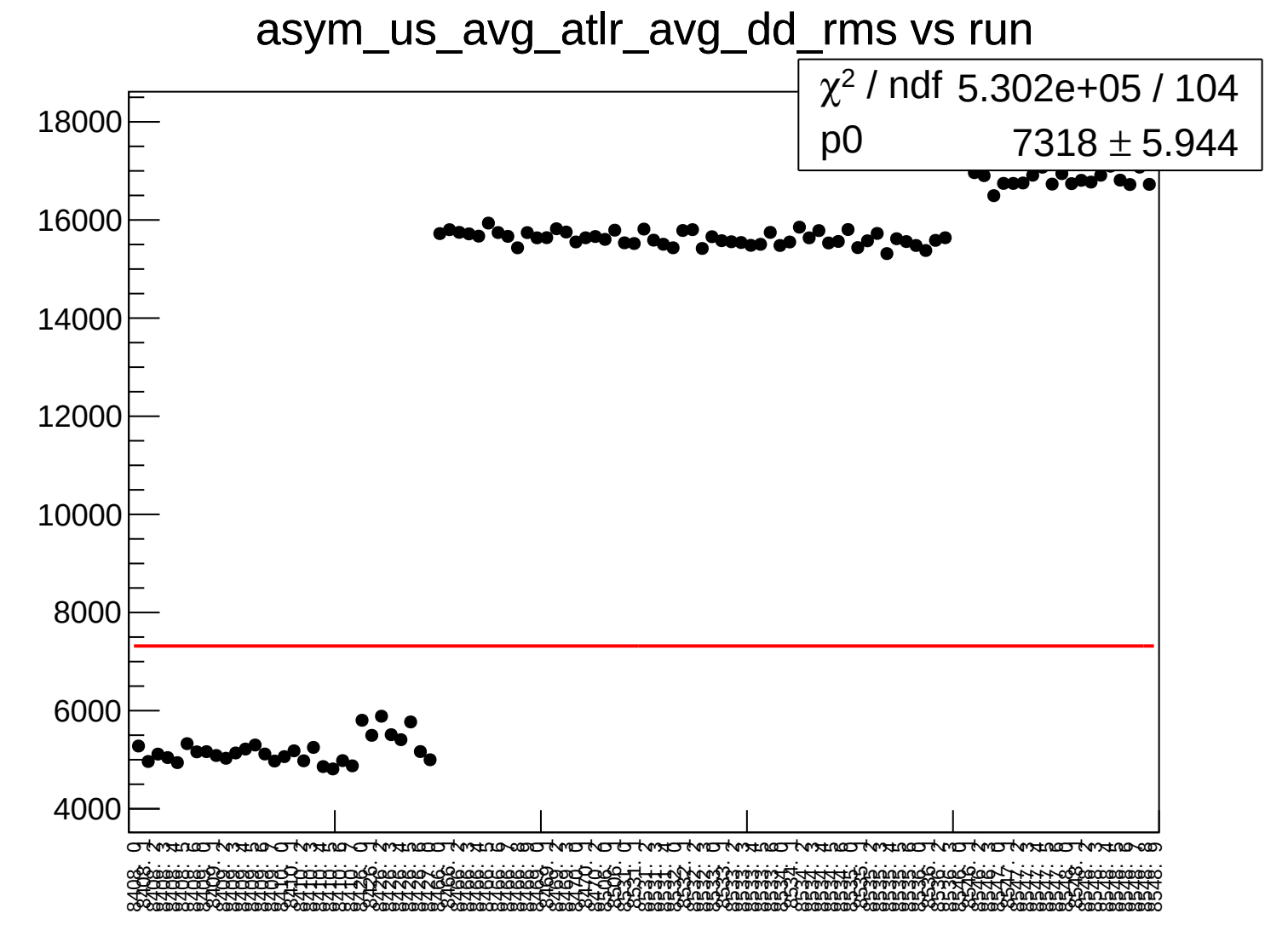

eigen_dit_asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 1.232e+06 / 104
p0 1299 ± 1.44
18000
16000
14000
12000
10000
8000
6000
4000
2000

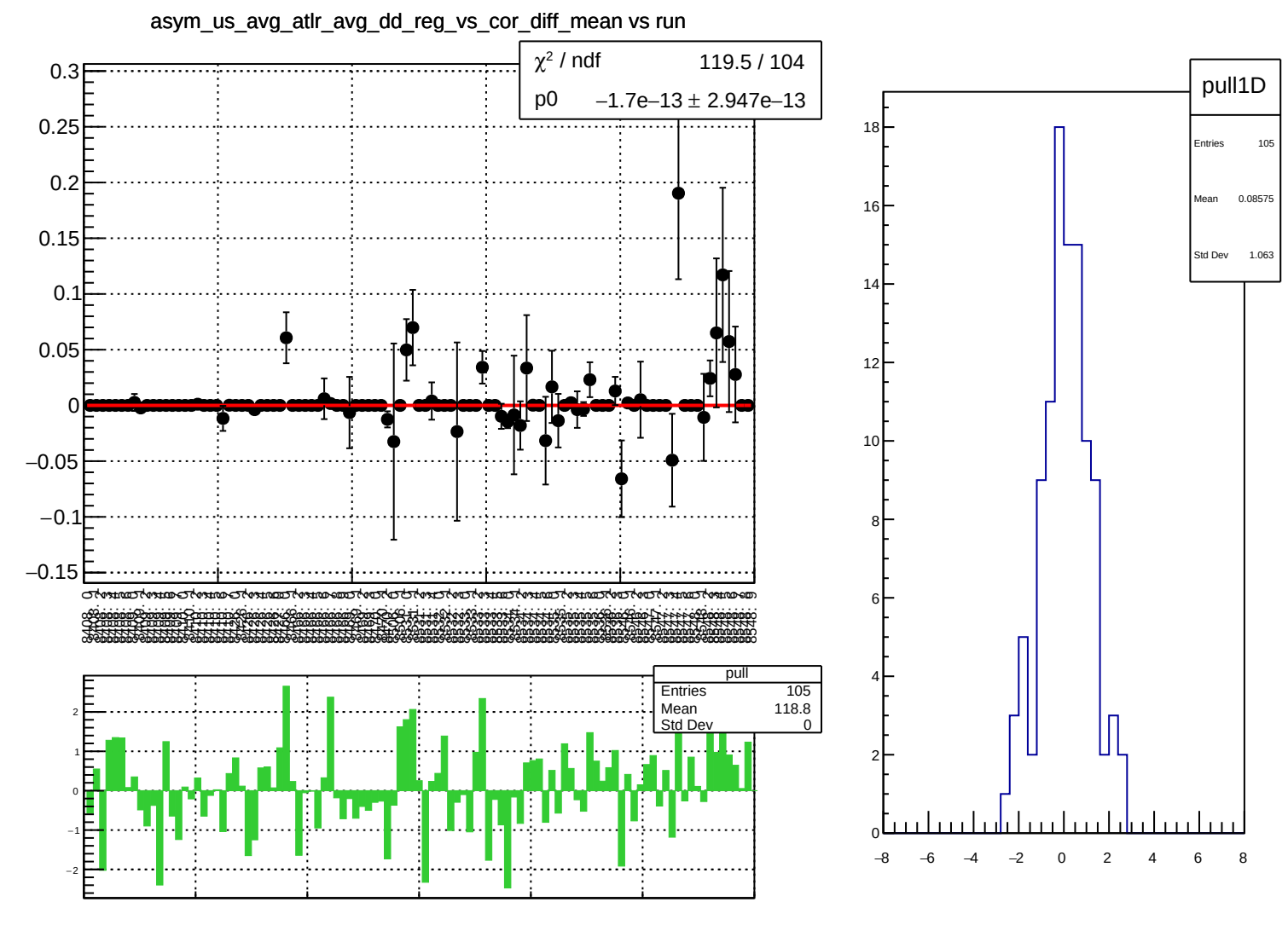

asym_us_avg_atlr_avg_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 97.84 / 104
p0 703.9 ± 1037
200
150
100
50
0
−50
−100
−150
pull
Entries 105
Mean −1.107
Std Dev 57.68
3
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.005024
Std Dev 0.9653
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

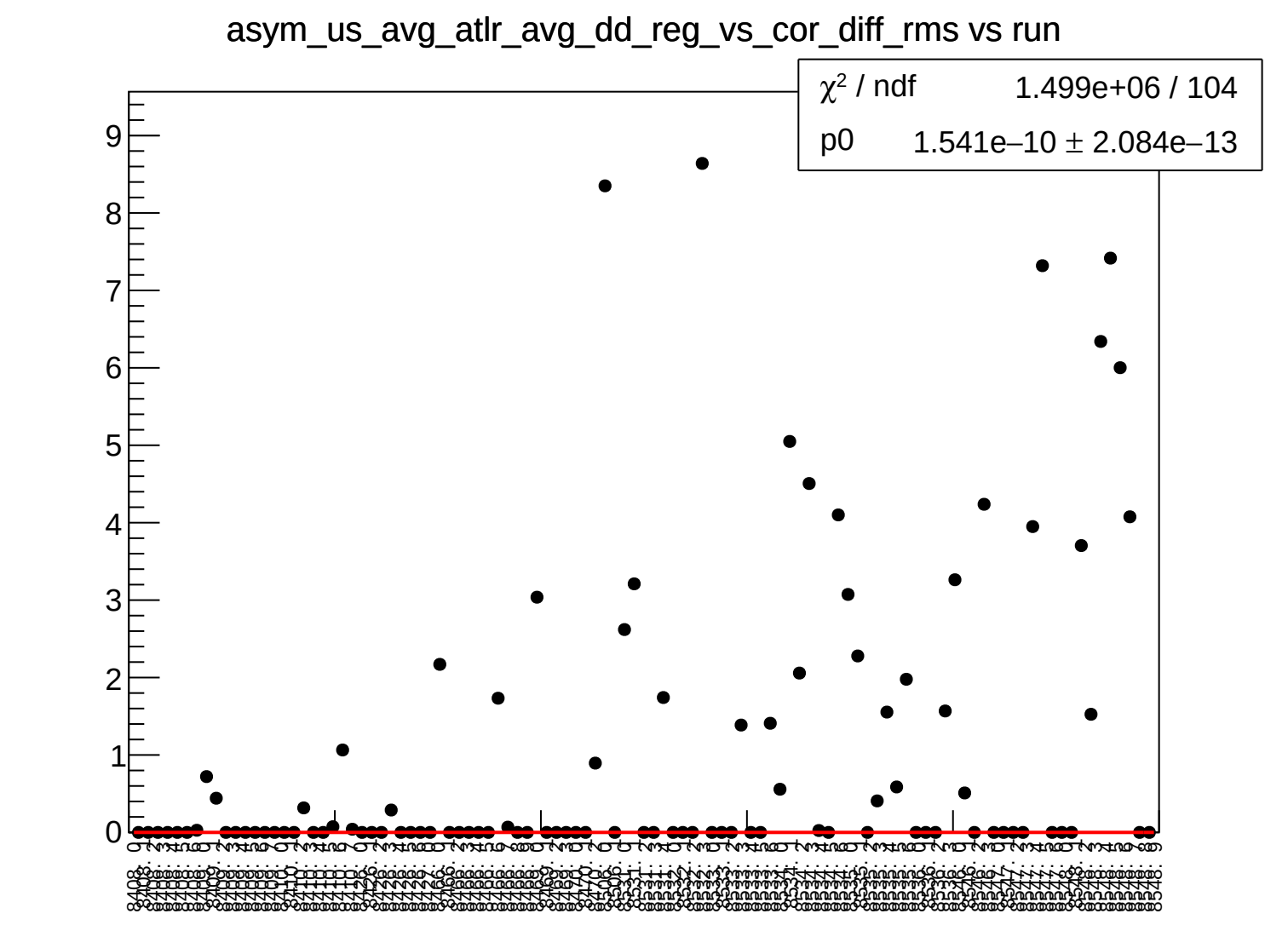

asym_us_avg_atlr_avg_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 4.373e+05 / 104
p0 930.1 ± 0.7332
6000
5000
4000
3000
2000
1000

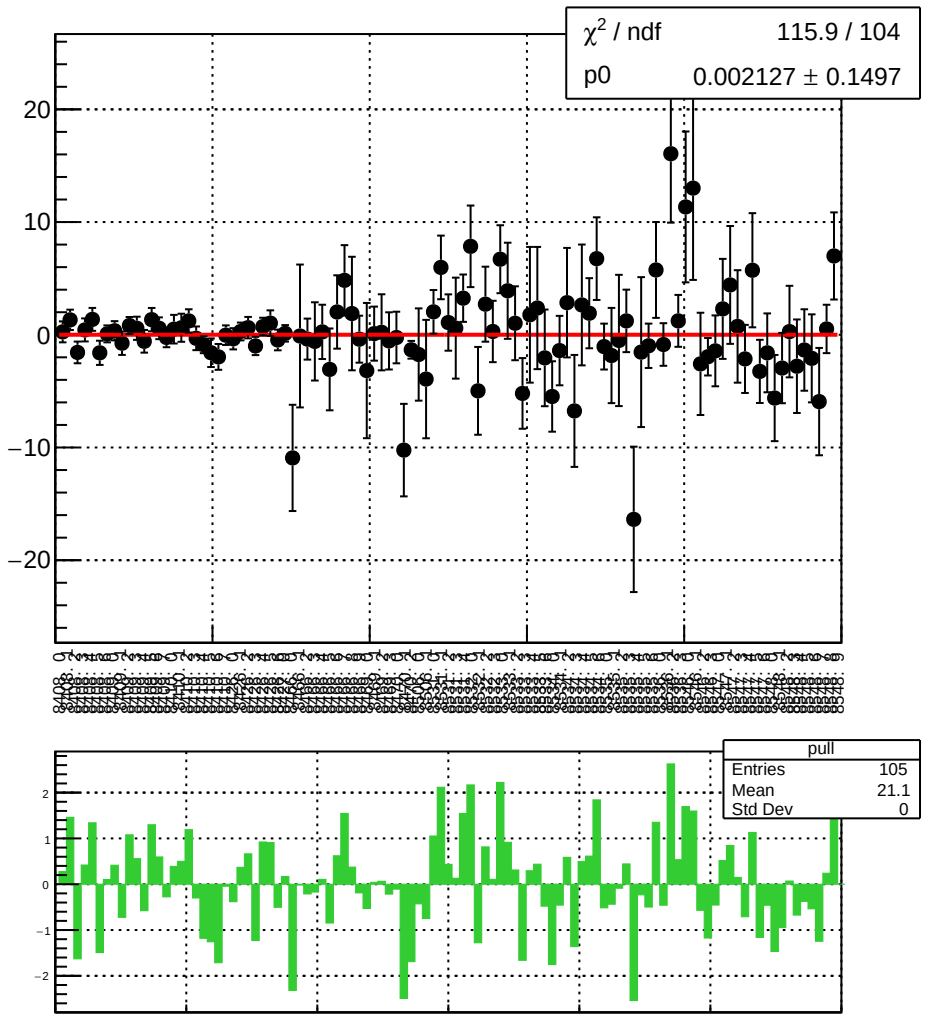

asym_us_avg_atlr_avg_dd_mean vs run
×10^3
χ^2 / ndf 87.15 / 104
p0 −3873 ± 8406
600
400
200
0
−200
−400
−600
pull
Entries 105
Mean −375.2
Std Dev 0
2
1
0
−1
−2

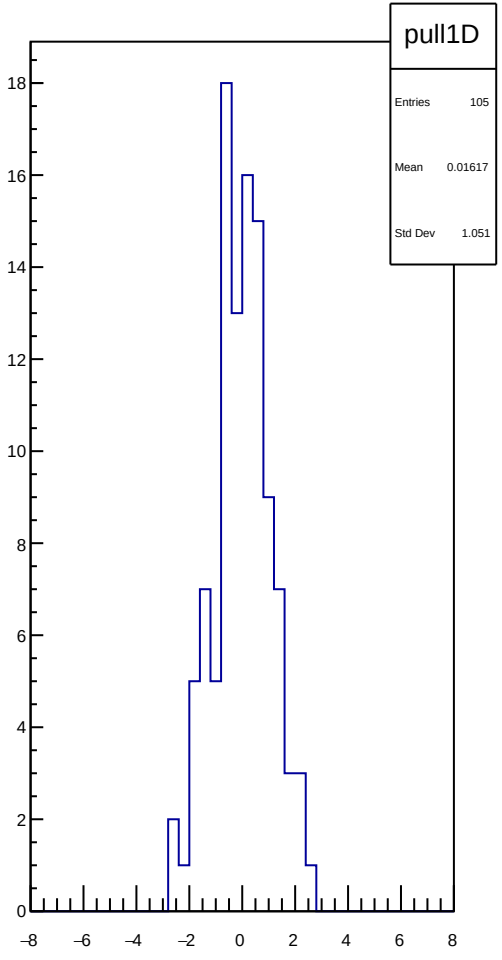

pull1D
Entries 105
Mean 0.004704
Std Dev 0.911
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

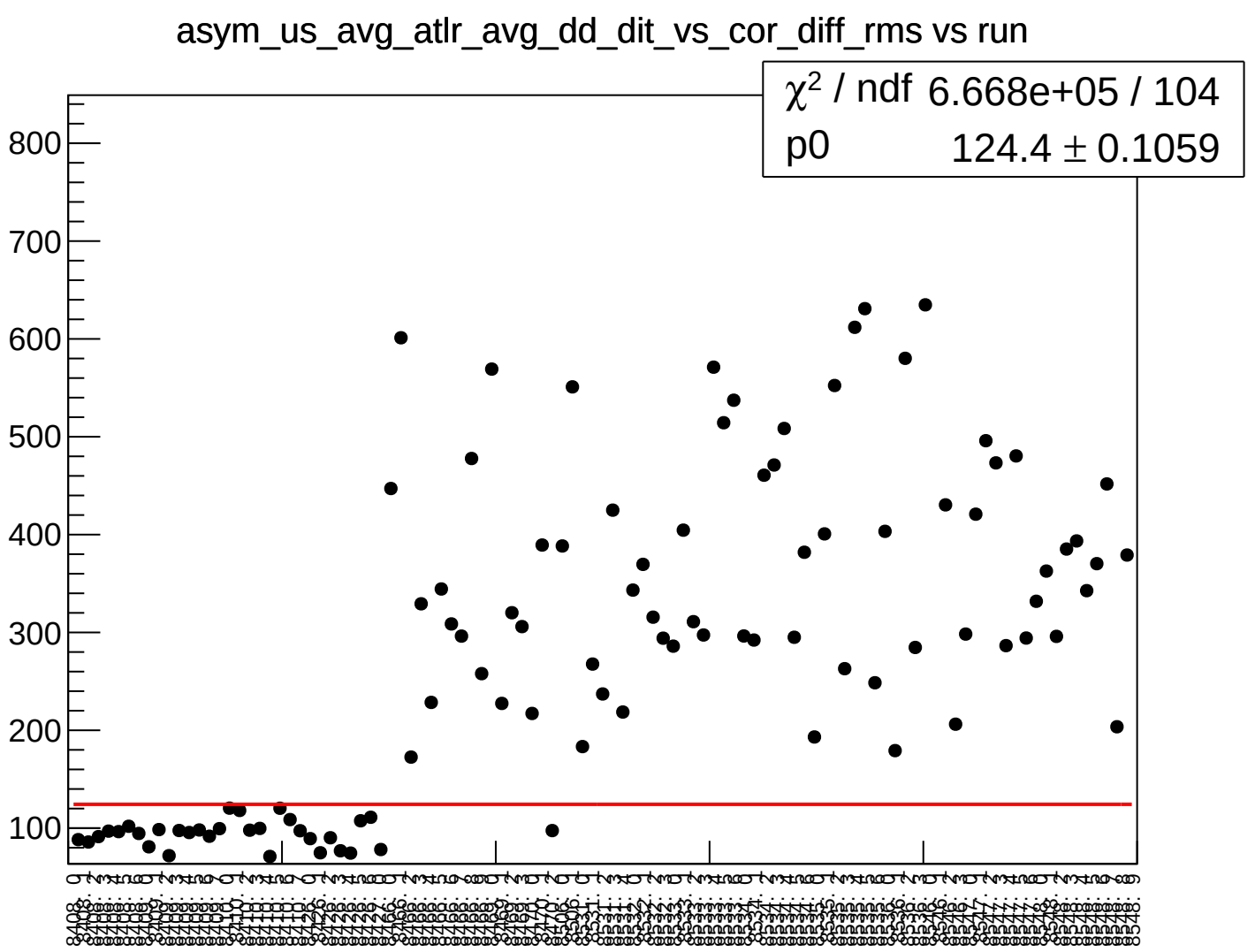

asym_us_avg_atlr_avg_dd_rms vs run
χ² / ndf 5.302e+05 / 104
p0 7318 ± 5.944
18000
16000
14000
12000
10000
8000
6000
4000

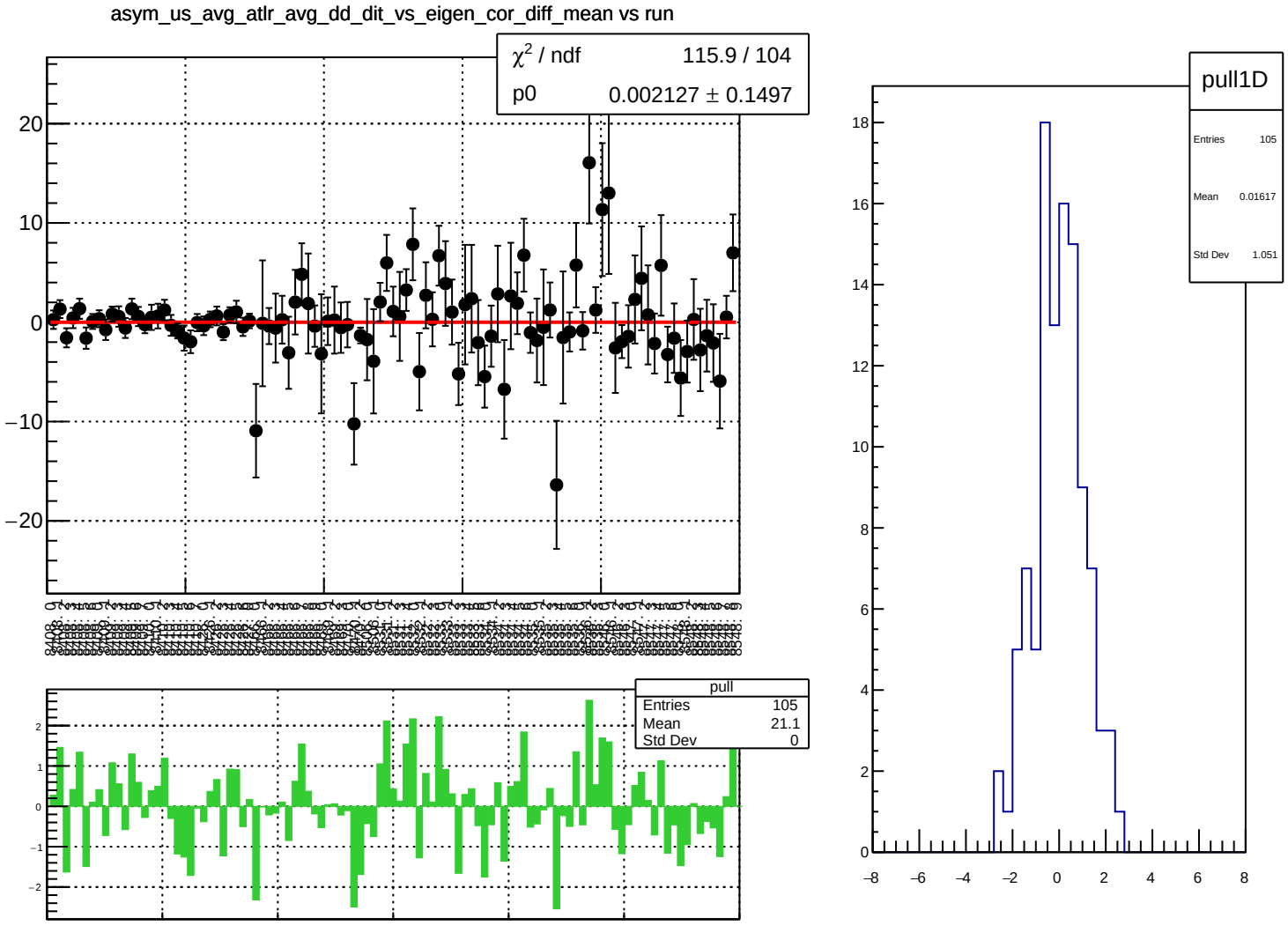

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 119.5 / 104
p0 −1.7e−13 ± 2.947e−13
pull
Entries 105
Mean 118.8
Std Dev 0
pull1D
Entries 105
Mean 0.08575
Std Dev 1.063

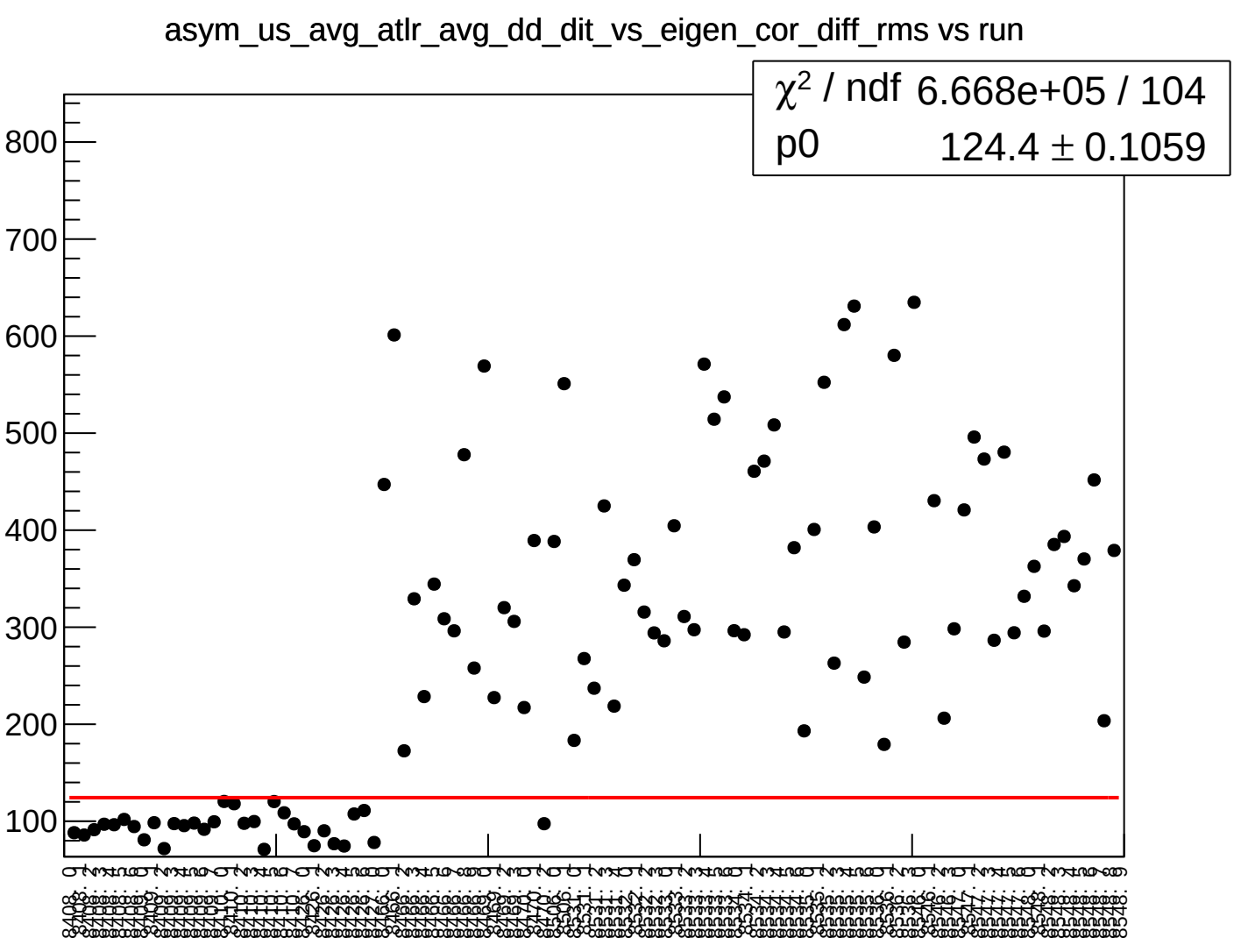

asym_us_avg_atlr_avg_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.499e+06 / 104
p0 1.541e−10 ± 2.084e−13
0
1
2
3
4
5
6
7
8
9

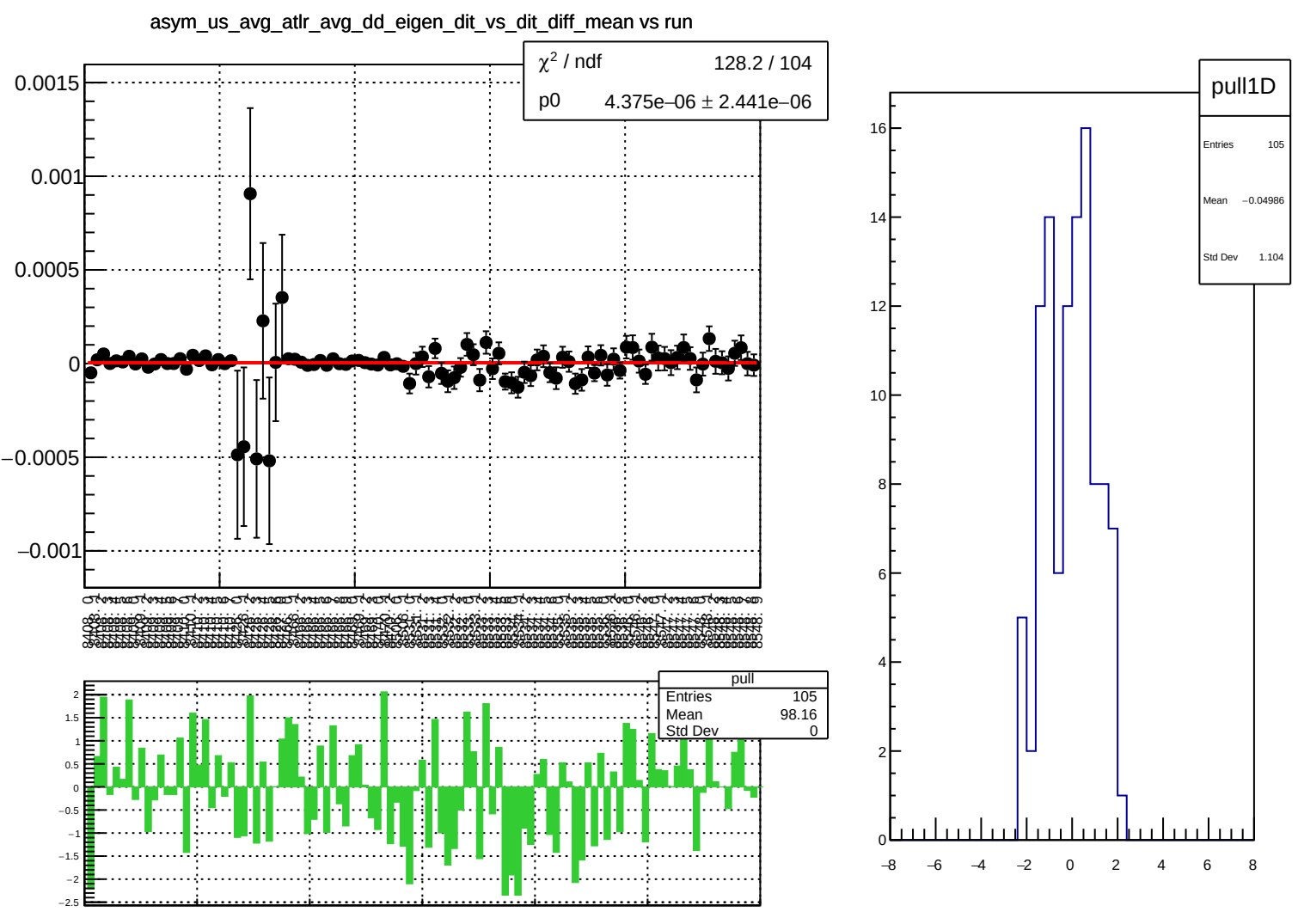

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 115.9 / 104
p0 0.002127 ± 0.1497
pull
Entries 105
Mean 21.1
Std Dev 0

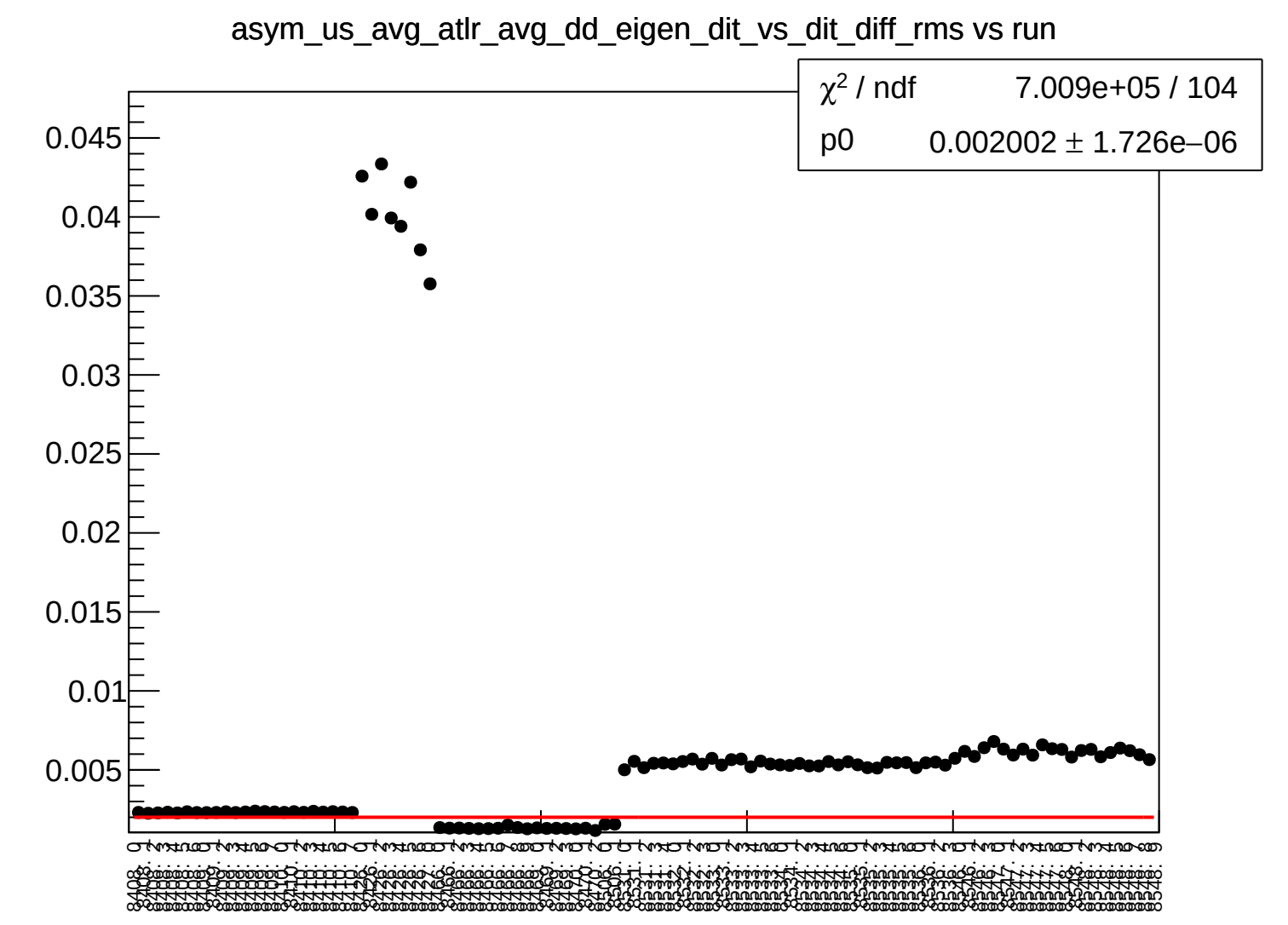

pull1D
Entries 105
Mean 0.01617
Std Dev 1.051

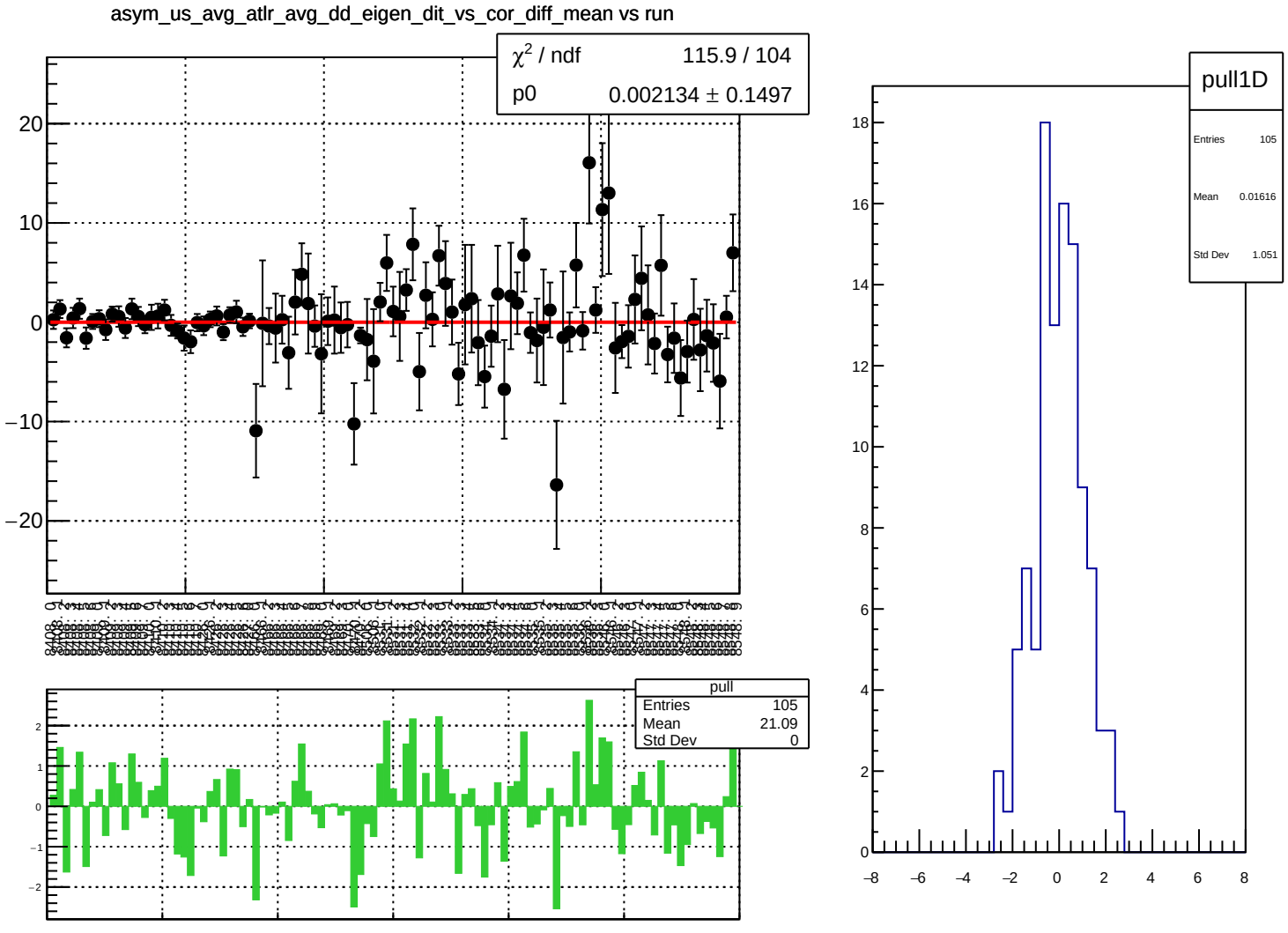

asym_us_avg_atlr_avg_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.668e+05 / 104
p0 124.4 ± 0.1059
800
700
600
500
400
300
200
100

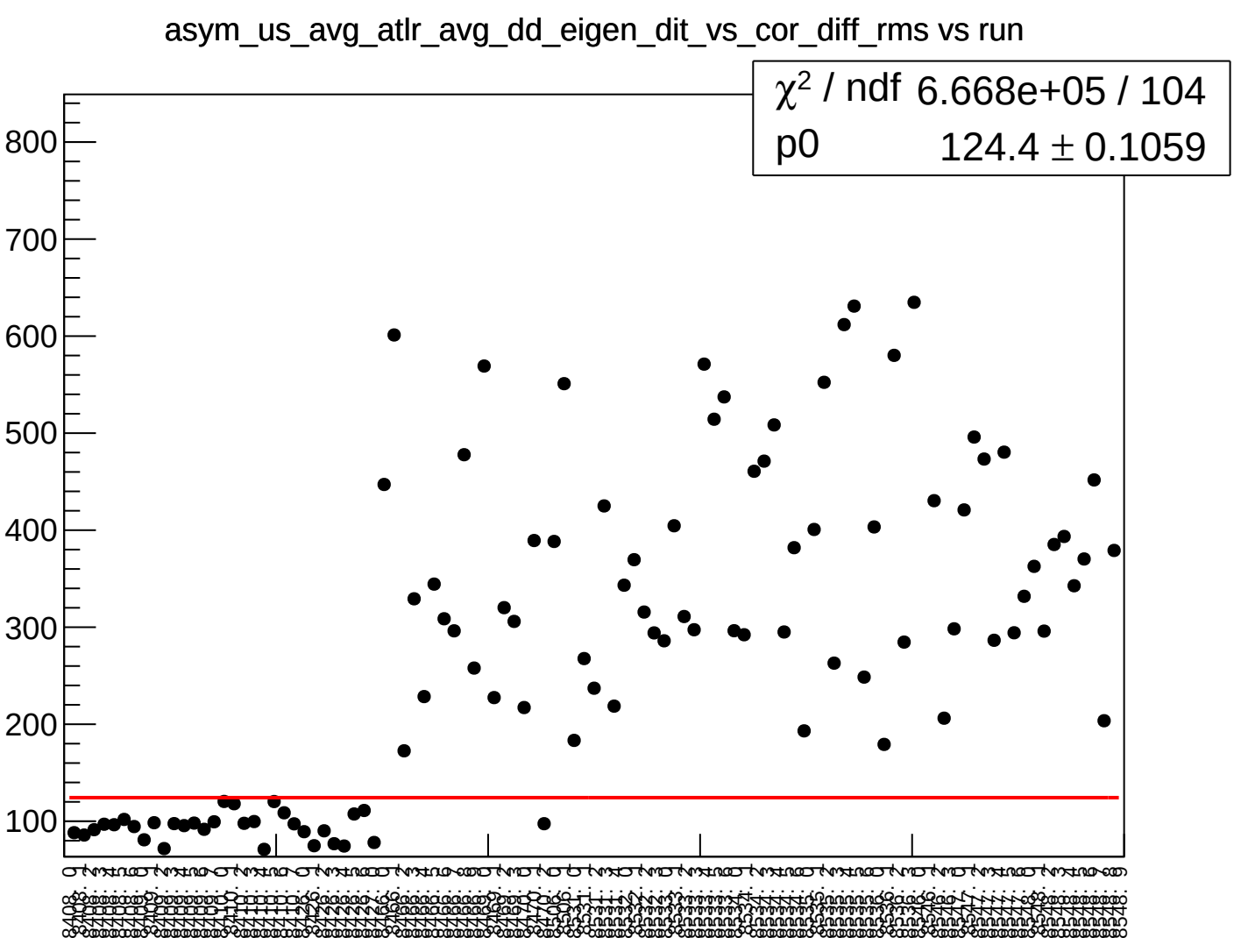

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 115.9 / 104
p0 0.002127 ± 0.1497
pull
Entries 105
Mean 21.1
Std Dev 0
pull1D
Entries 105
Mean 0.01617
Std Dev 1.051

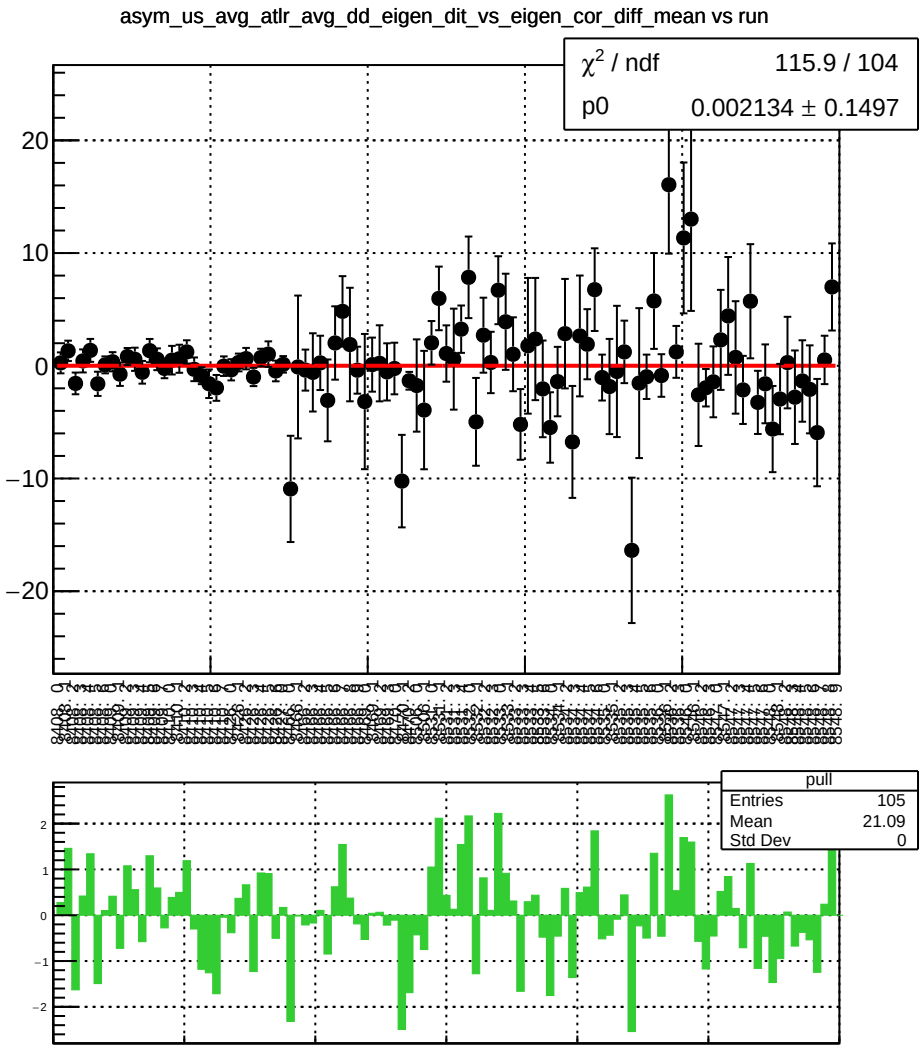

asym_us_avg_atlr_avg_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.668e+05 / 104
p0 124.4 ± 0.1059
800
700
600
500
400
300
200
100

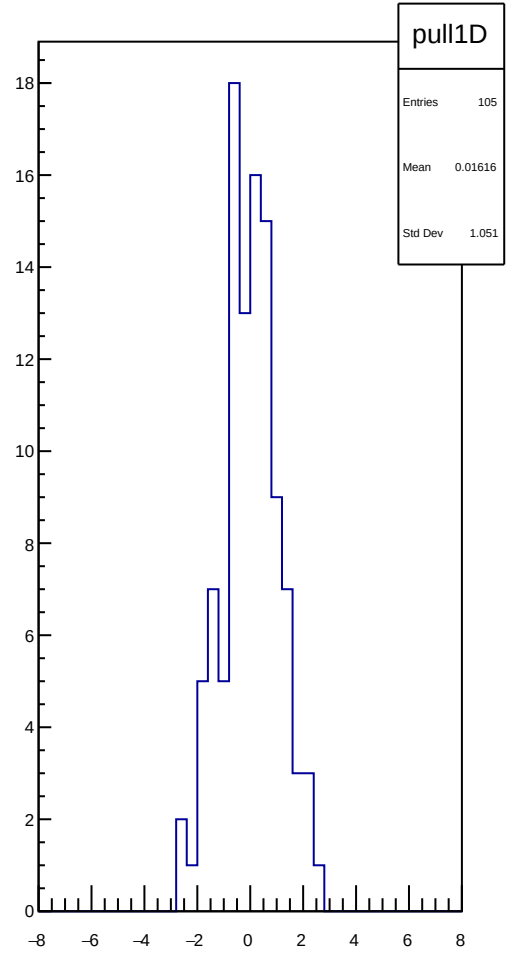

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 128.2 / 104
p0 4.375e−06 ± 2.441e−06
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 105
Mean 98.16
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 105
Mean −0.04986
Std Dev 1.104
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

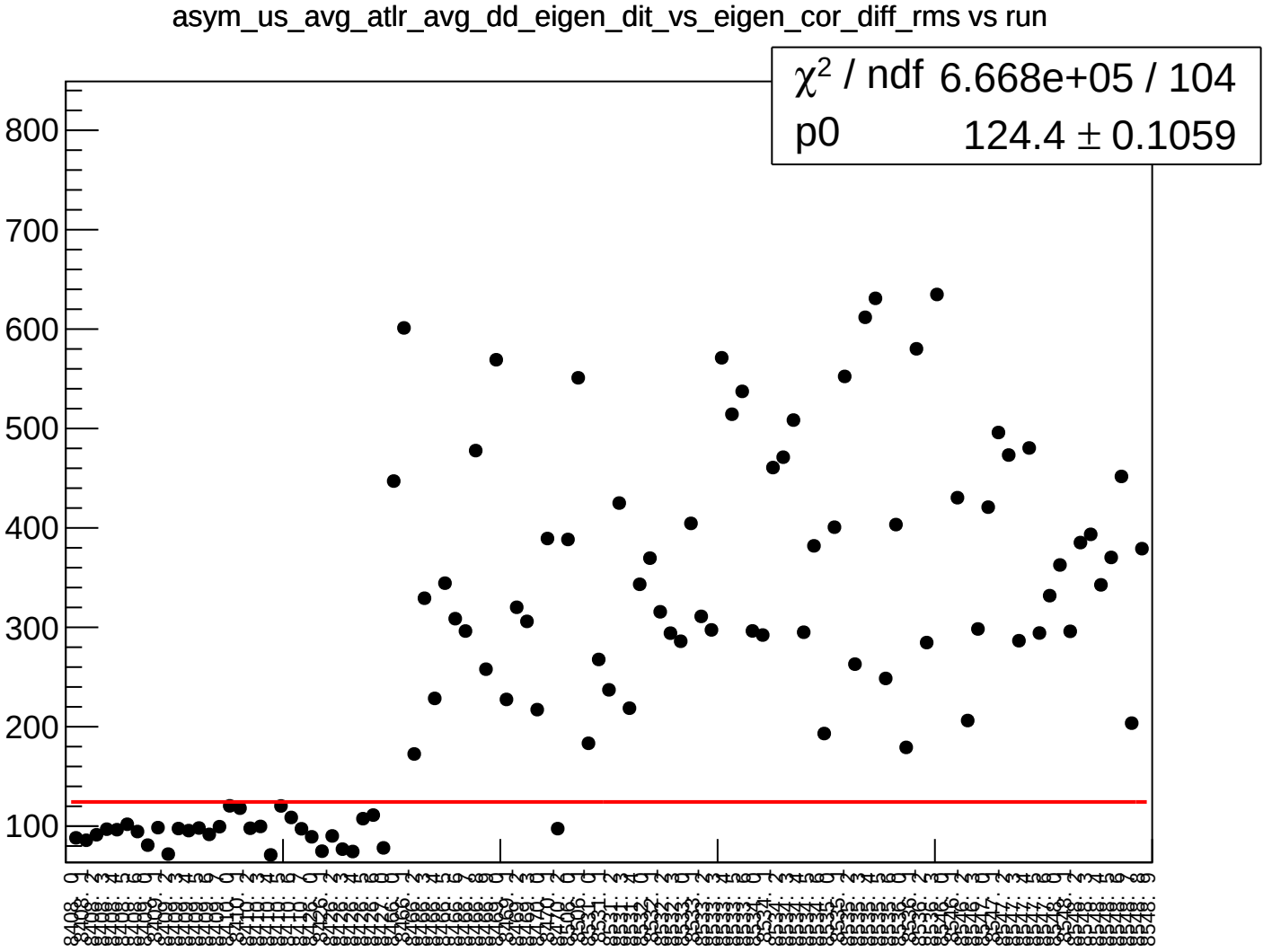

asym_us_avg_atlr_avg_dd_eigen_dit_vs_dit_diff_rms vs run
χ^2 / ndf 7.009e+05 / 104
p0 0.002002 ± 1.726e−06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

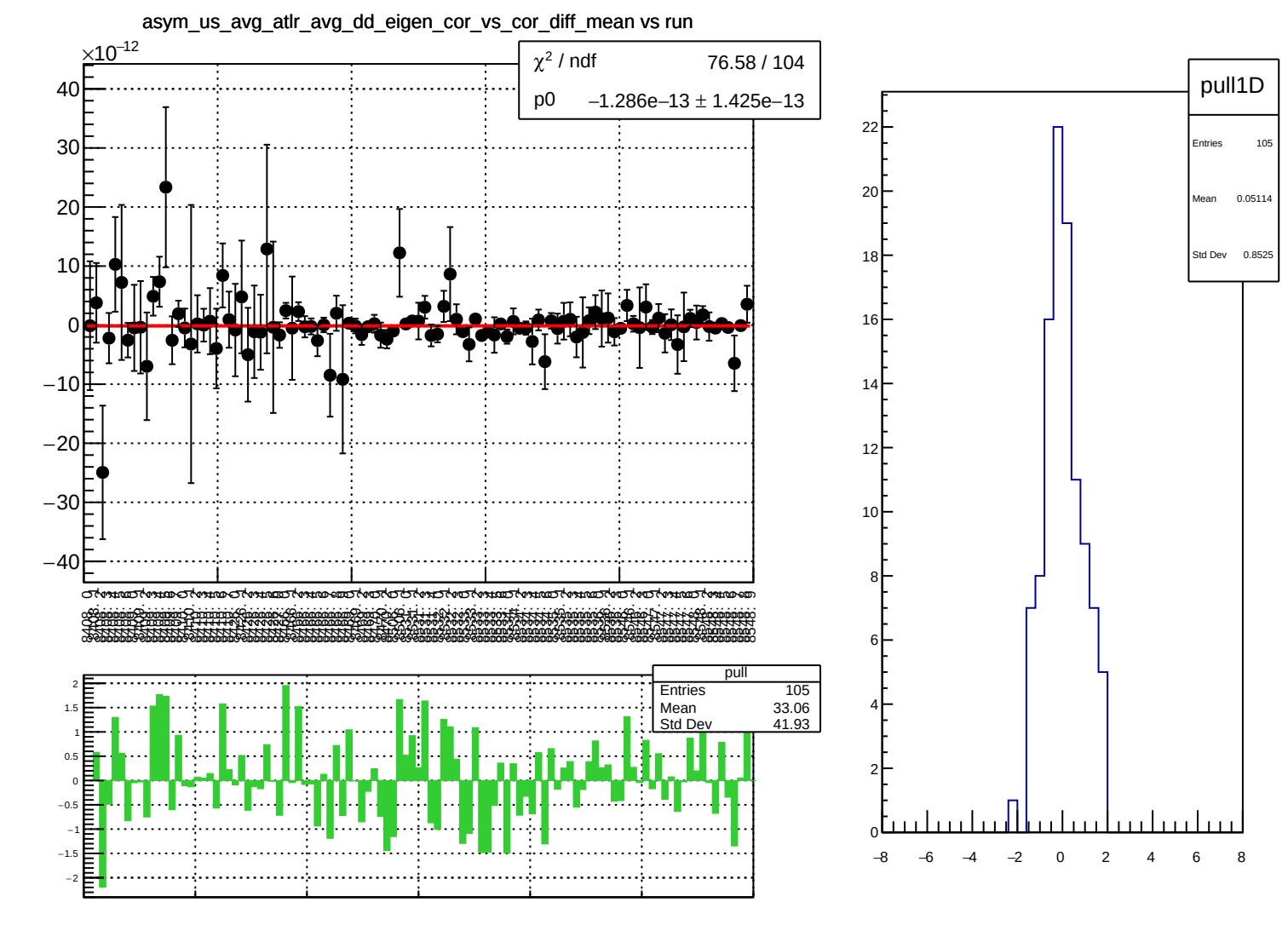

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 115.9 / 104
p0 0.002134 ± 0.1497
pull
Entries 105
Mean 21.09
Std Dev 0
pull1D
Entries 105
Mean 0.01616
Std Dev 1.051

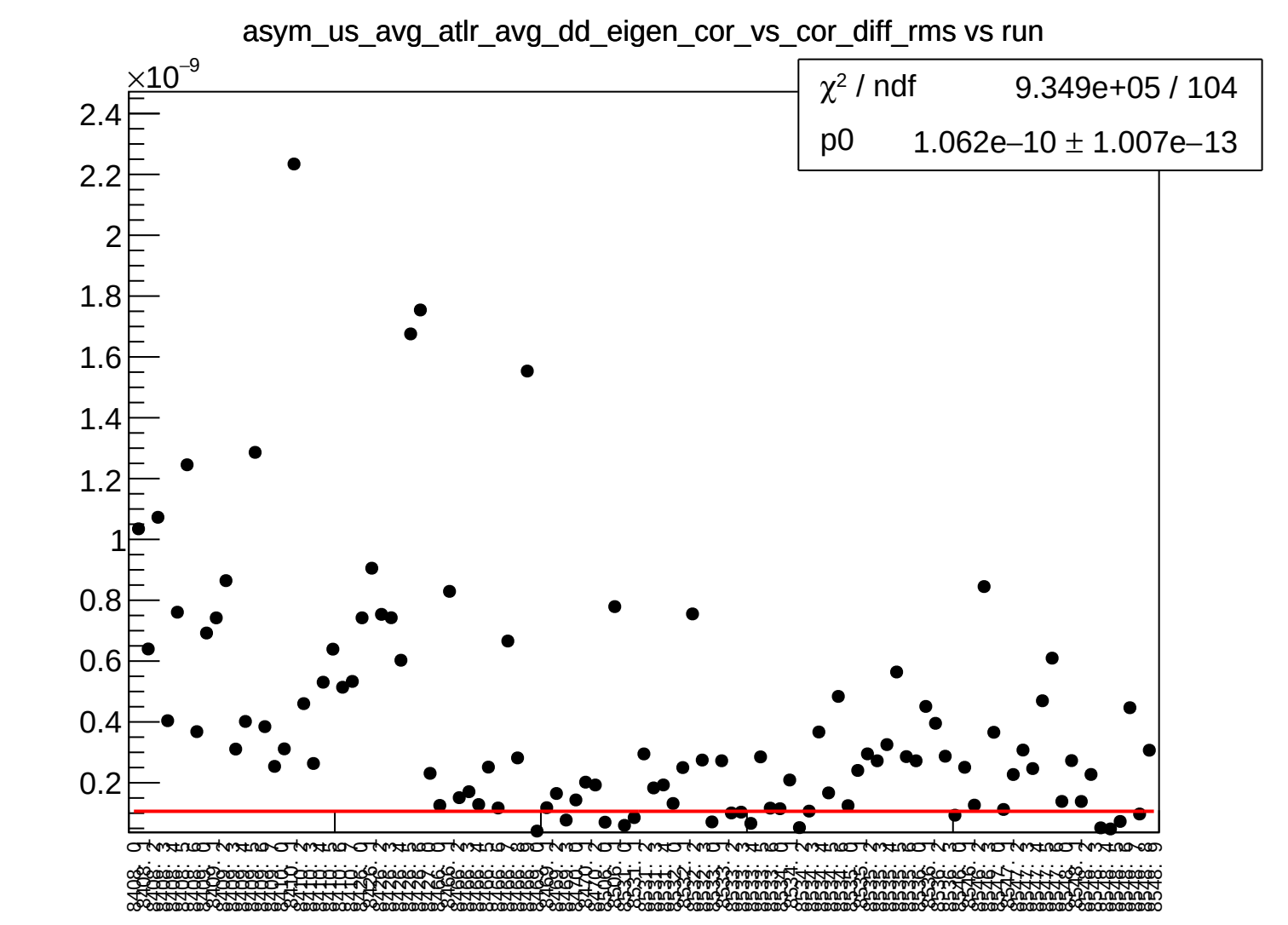

asym_us_avg_atlr_avg_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.668e+05 / 104
p0 124.4 ± 0.1059
800
700
600
500
400
300
200
100

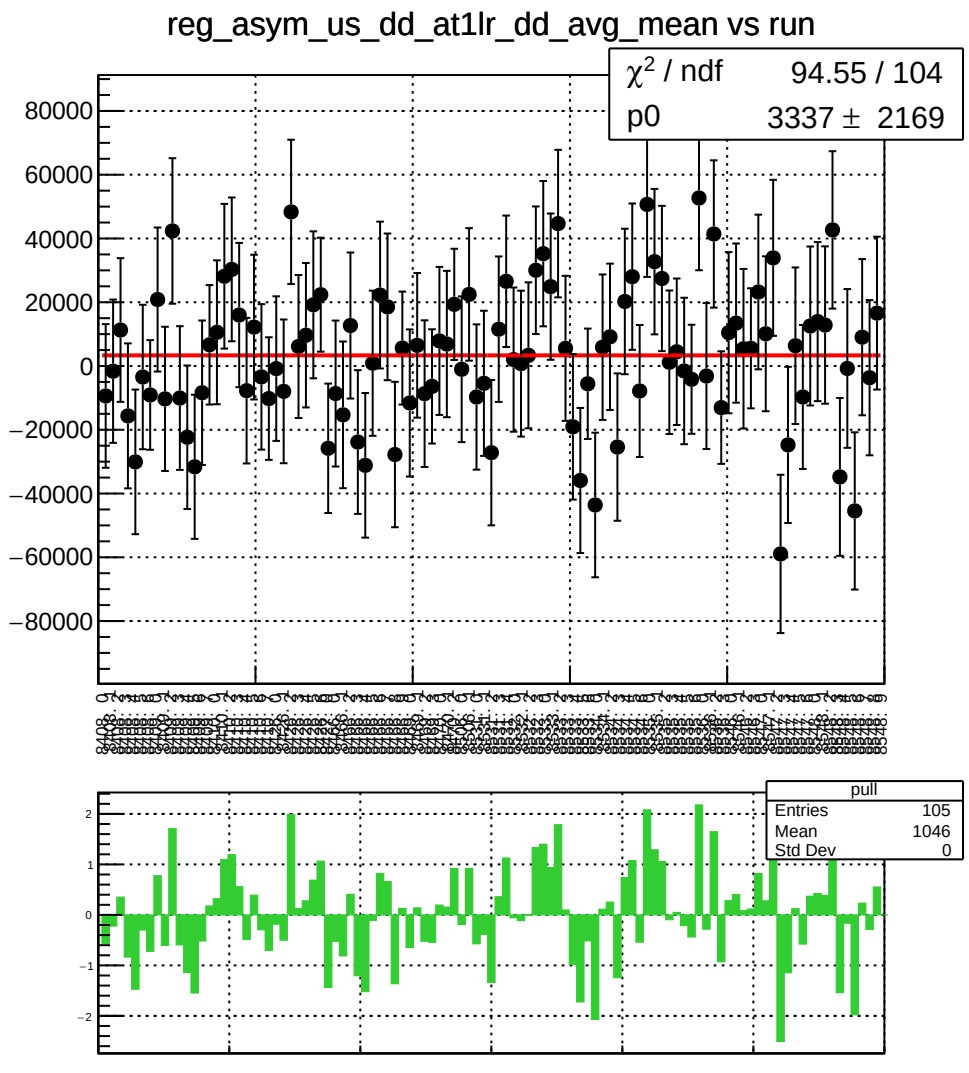

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 115.9 / 104
p0 0.002134 ± 0.1497
20
10
0
−10
−20
pull
Entries 105
Mean 21.09
Std Dev 0
2
1
0
−1
−2

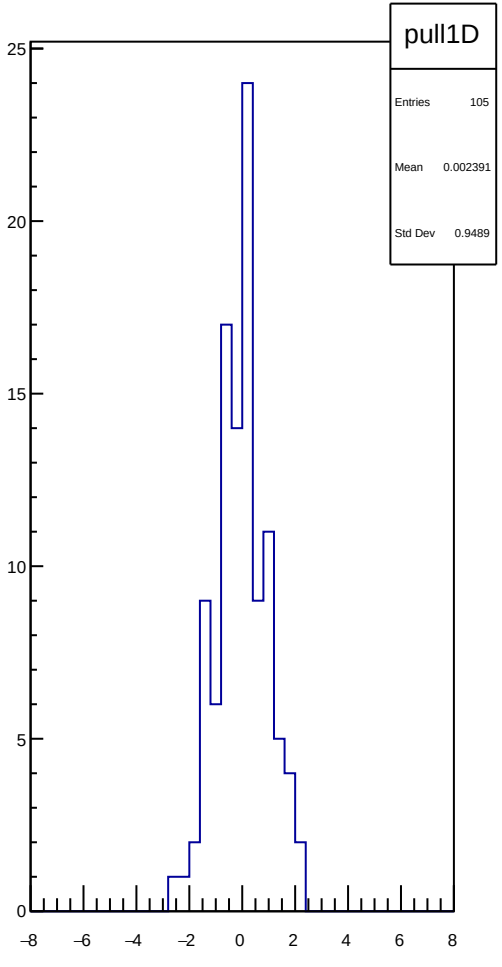

pull1D
Entries 105
Mean 0.01616
Std Dev 1.051
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

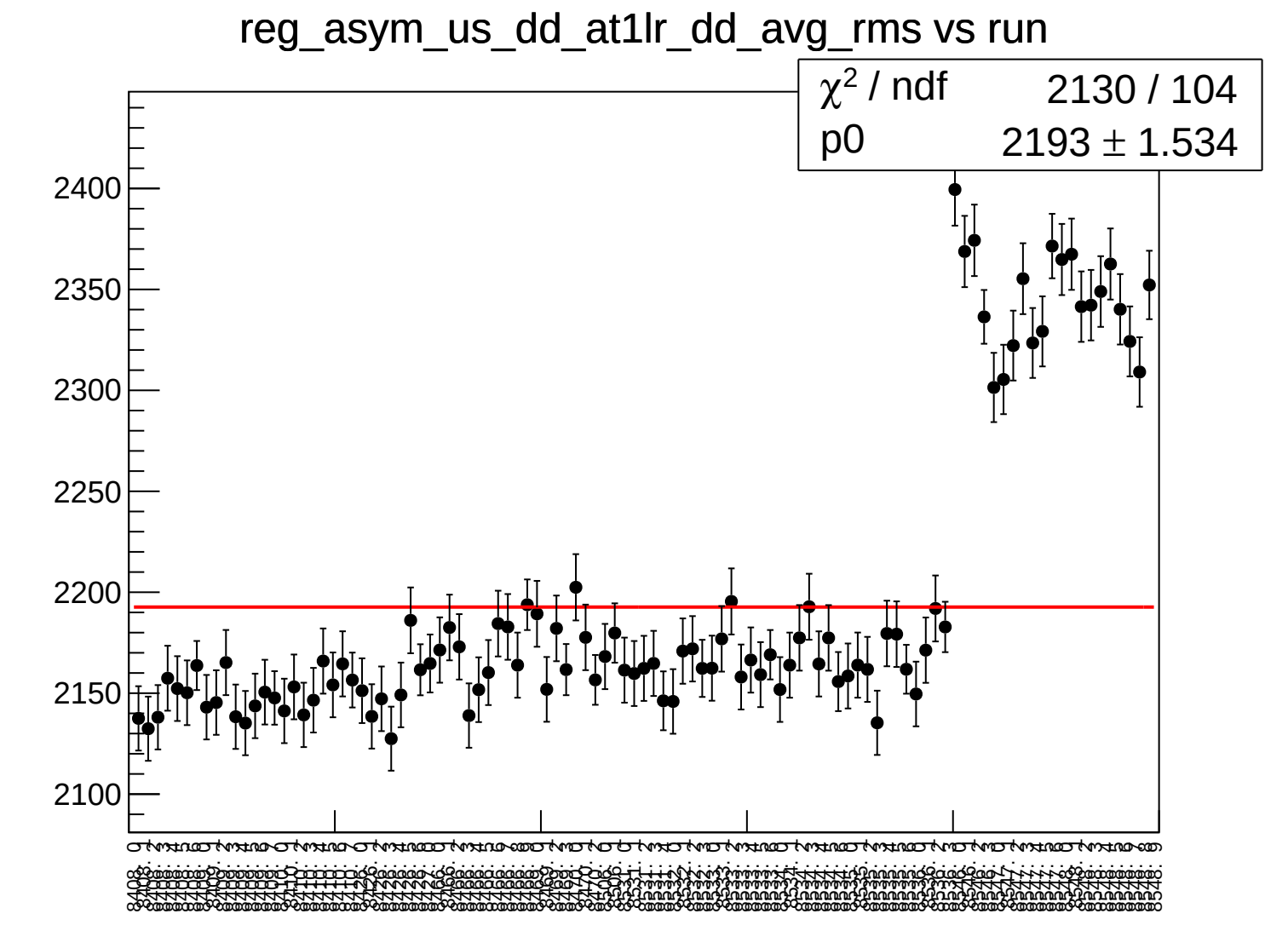

asym_us_avg_atlr_avg_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.668e+05 / 104
p0 124.4 ± 0.1059
800
700
600
500
400
300
200
100

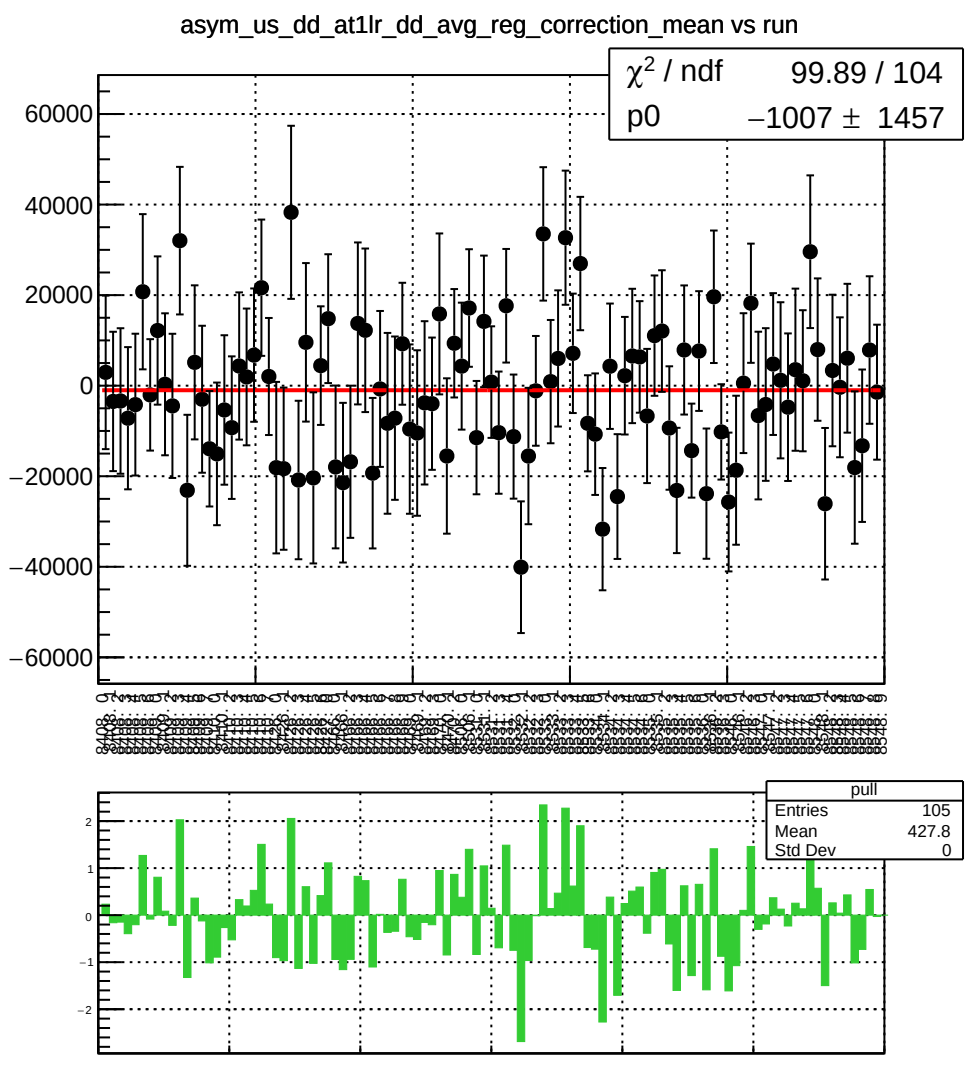

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_mean vs run
×10^-12
χ² / ndf 76.58 / 104
p0 −1.286e−13 ± 1.425e−13
pull
Entries 105
Mean 33.06
Std Dev 41.93
pull1D
Entries 105
Mean 0.05114
Std Dev 0.8525

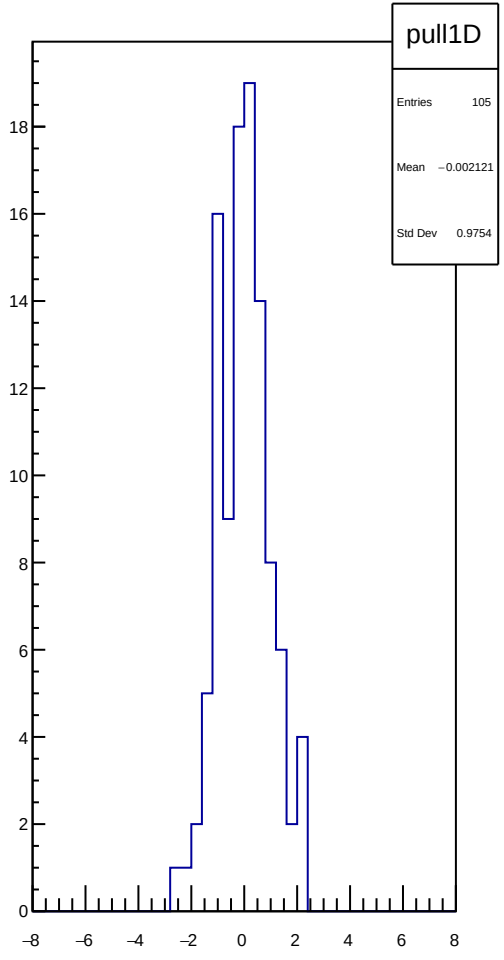

asym_us_avg_atlr_avg_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.349e+05 / 104
p0 1.062e−10 ± 1.007e−13
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

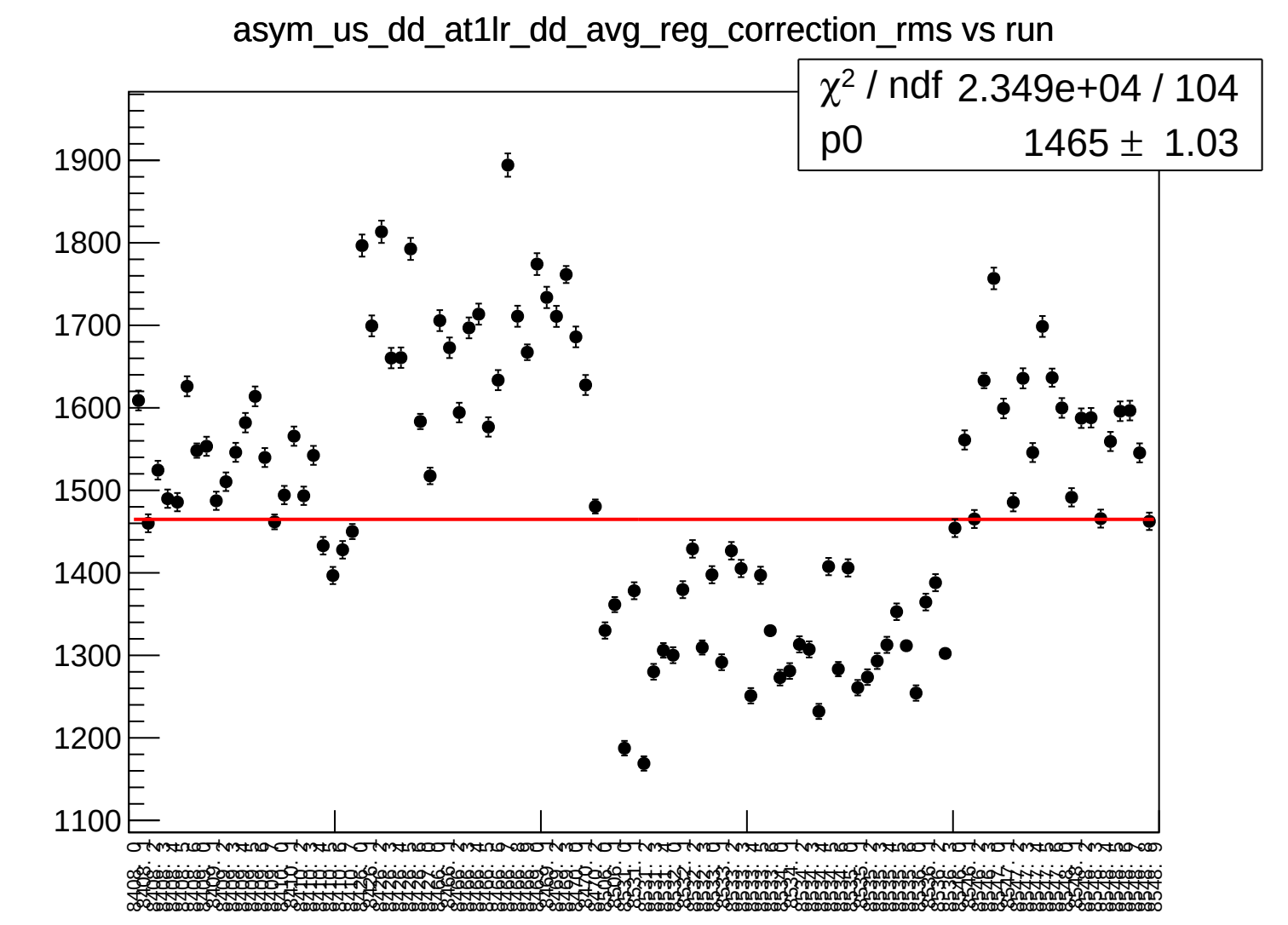

reg_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 94.55 / 104
p0 3337 ± 2169
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 105
Mean 1046
Std Dev 0
2
1
0
−1
−2

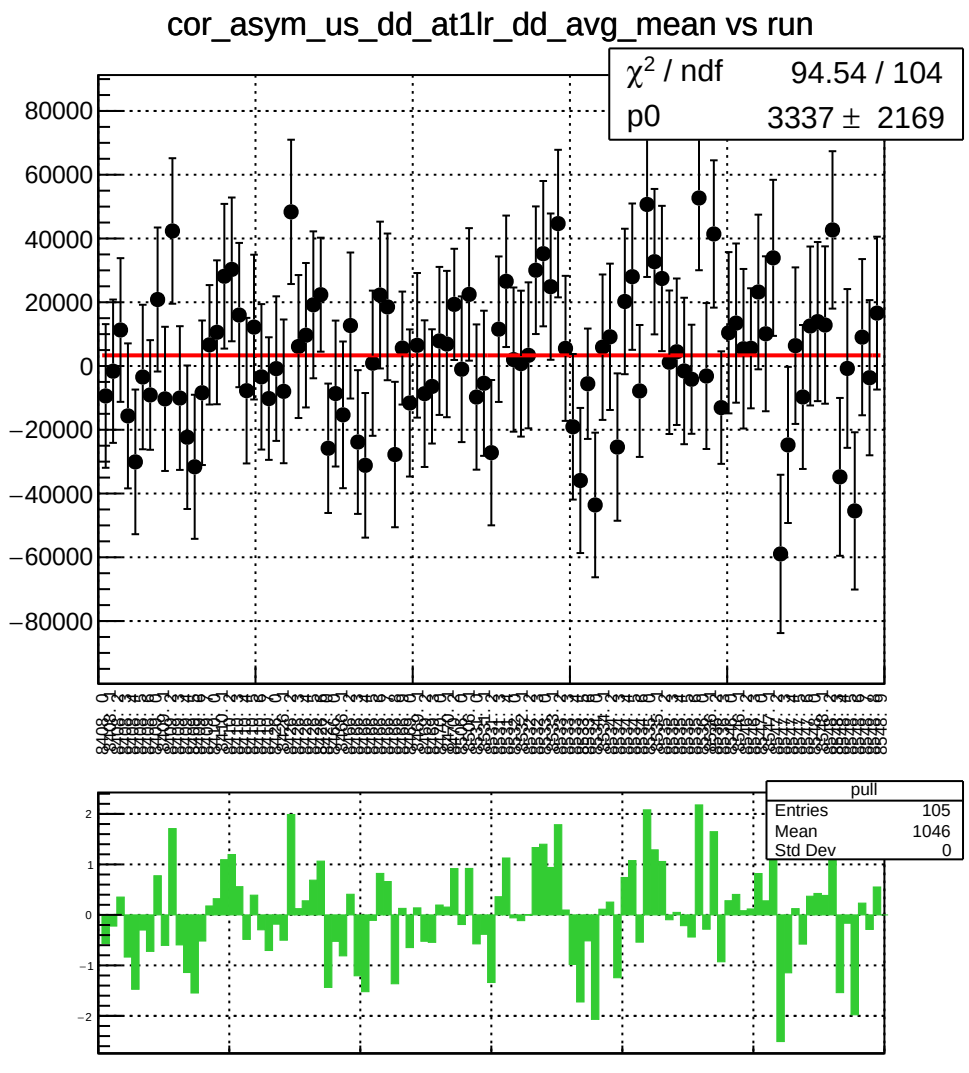

pull1D
Entries 105
Mean 0.002391
Std Dev 0.9489
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

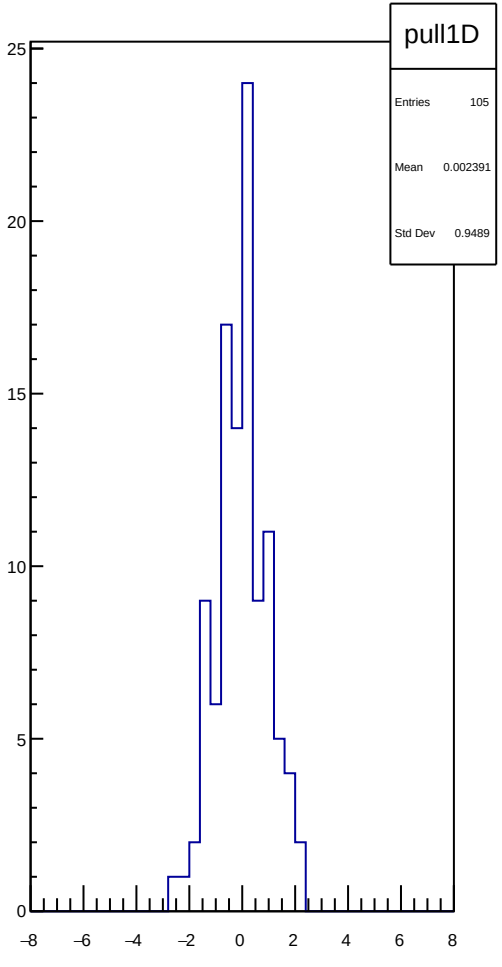

reg_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 2130 / 104
p0 2193 ± 1.534
2400
2350
2300
2250
2200
2150
2100

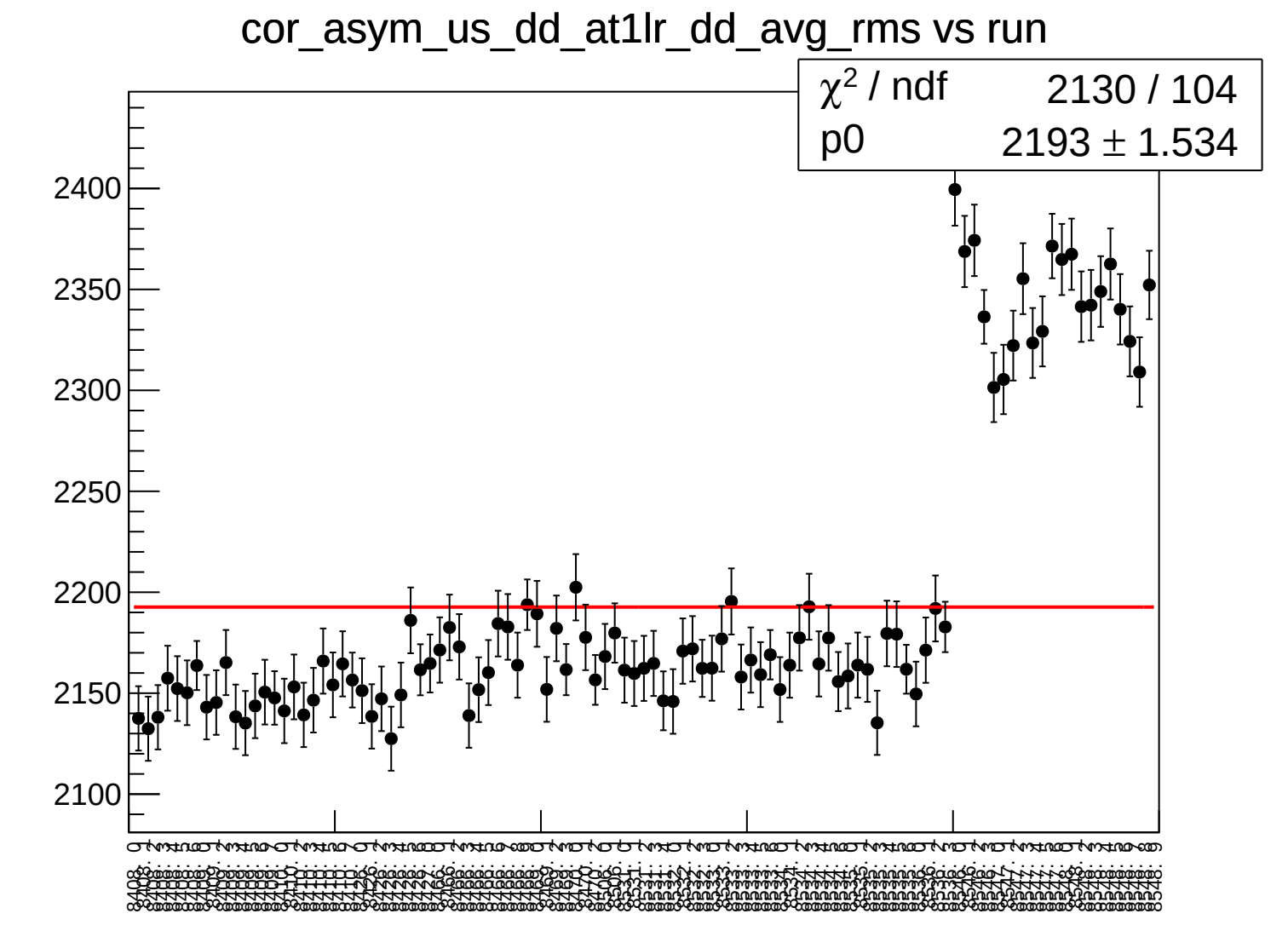

asym_us_dd_at1lr_dd_avg_reg_correction_mean vs run
χ² / ndf 99.89 / 104
p0 −1007 ± 1457
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean 427.8
Std Dev 0
2
1
0
−1
−2

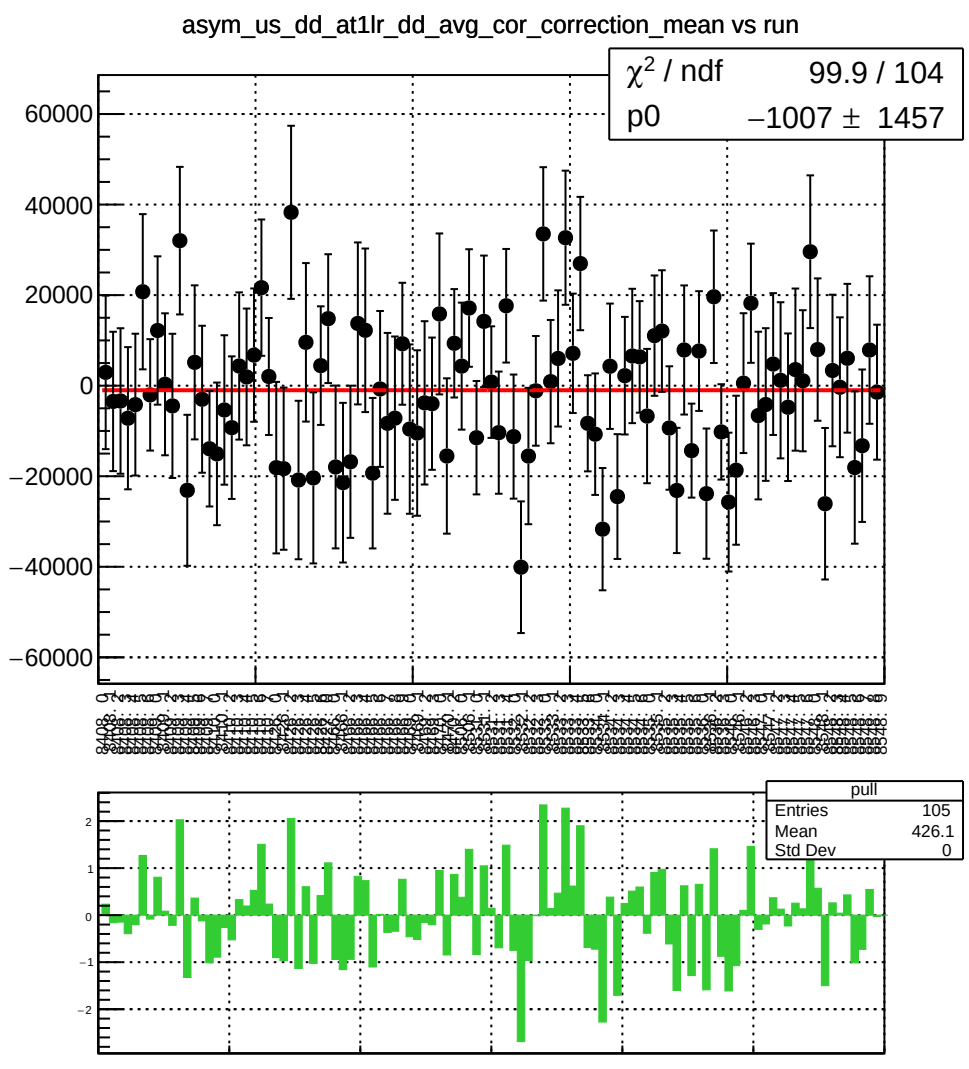

pull1D
Entries 105
Mean −0.002121
Std Dev 0.9754
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

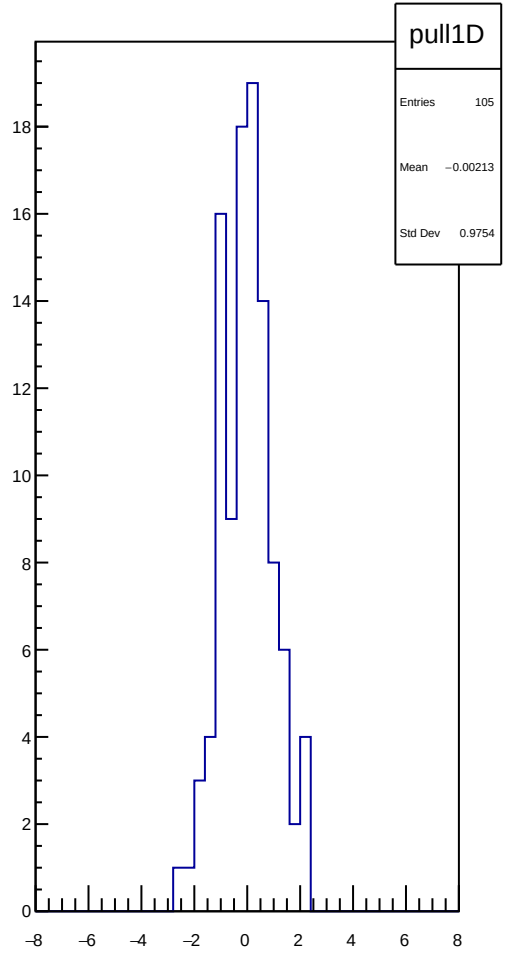

asym_us_dd_at1lr_dd_avg_reg_correction_rms vs run
χ² / ndf 2.349e+04 / 104
p0 1465 ± 1.03
1900
1800
1700
1600
1500
1400
1300
1200
1100

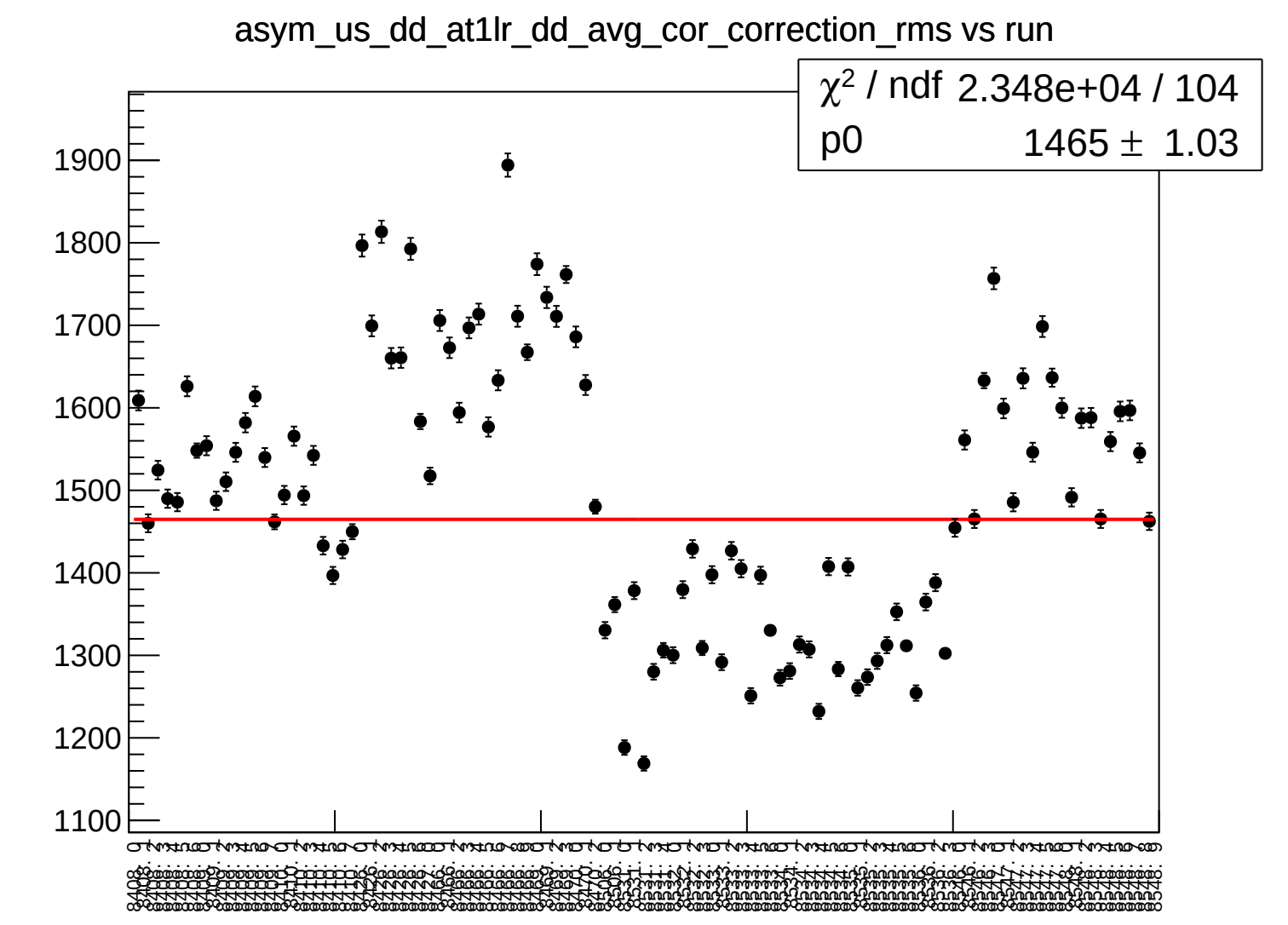

cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 94.54 / 104
p0 3337 ± 2169
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 105
Mean 1046
Std Dev 0
2
1
0
−1
−2

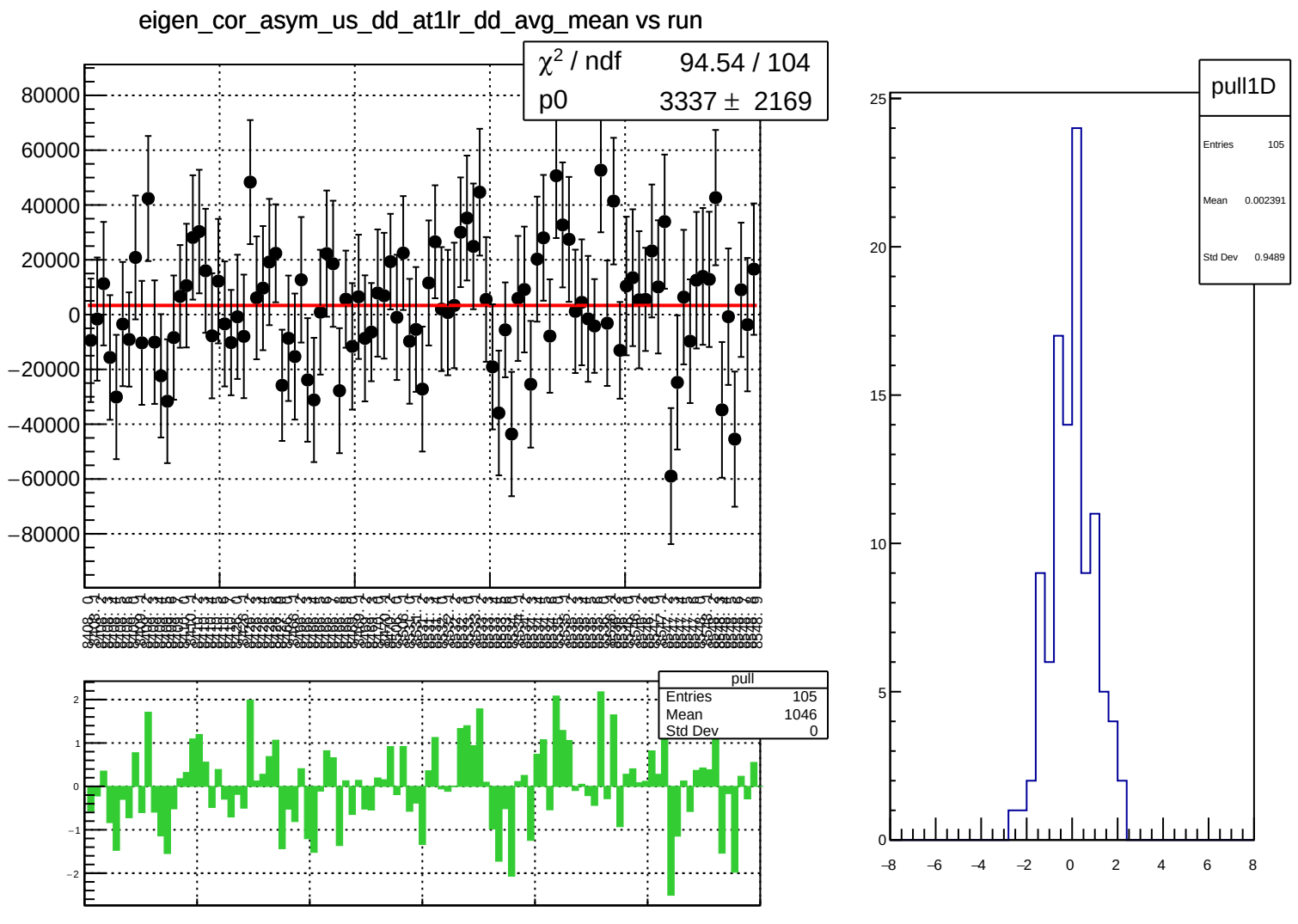

pull1D
Entries 105
Mean 0.002391
Std Dev 0.9489
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

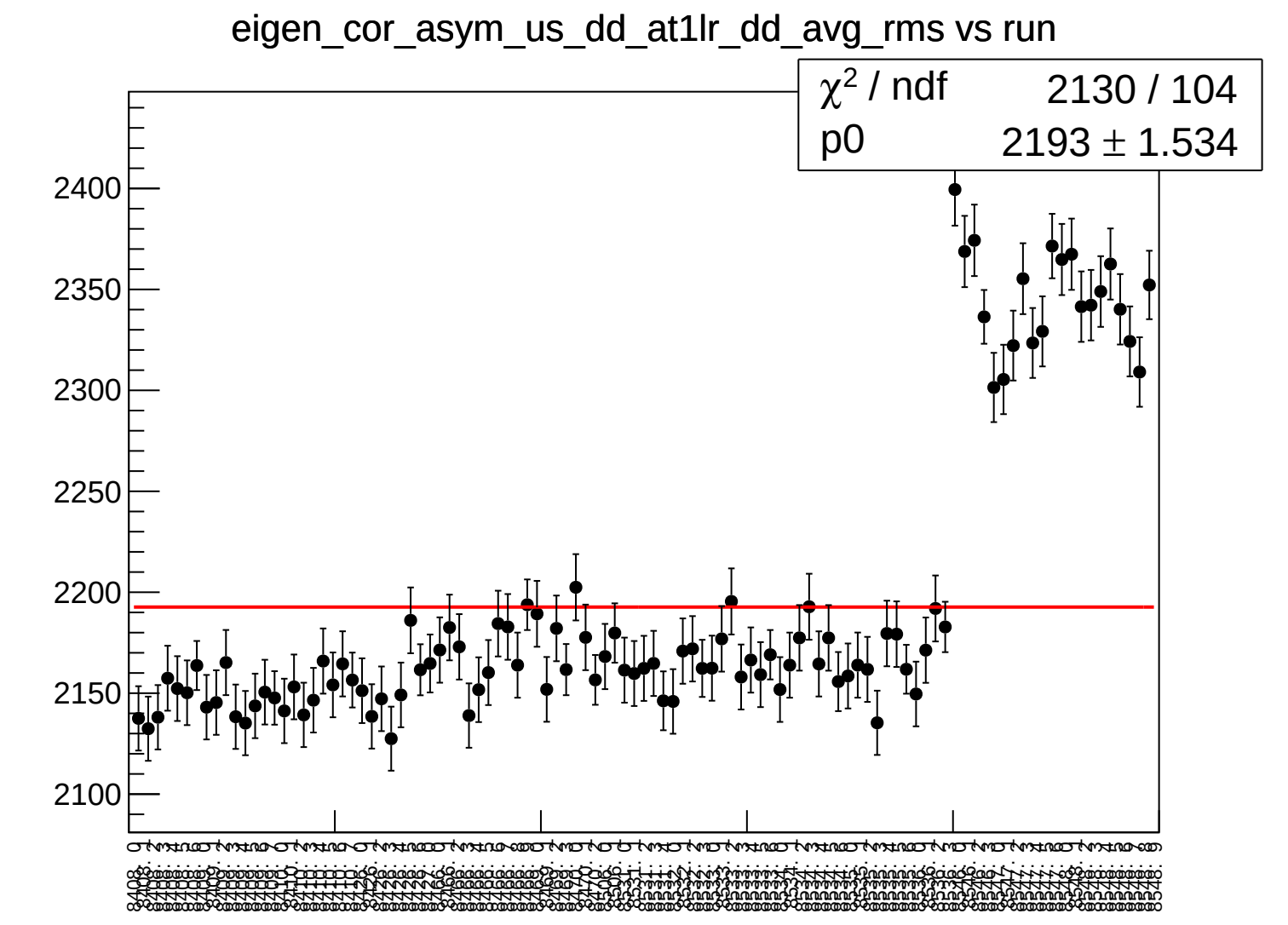

cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 2130 / 104
p0 2193 ± 1.534
2400
2350
2300
2250
2200
2150
2100

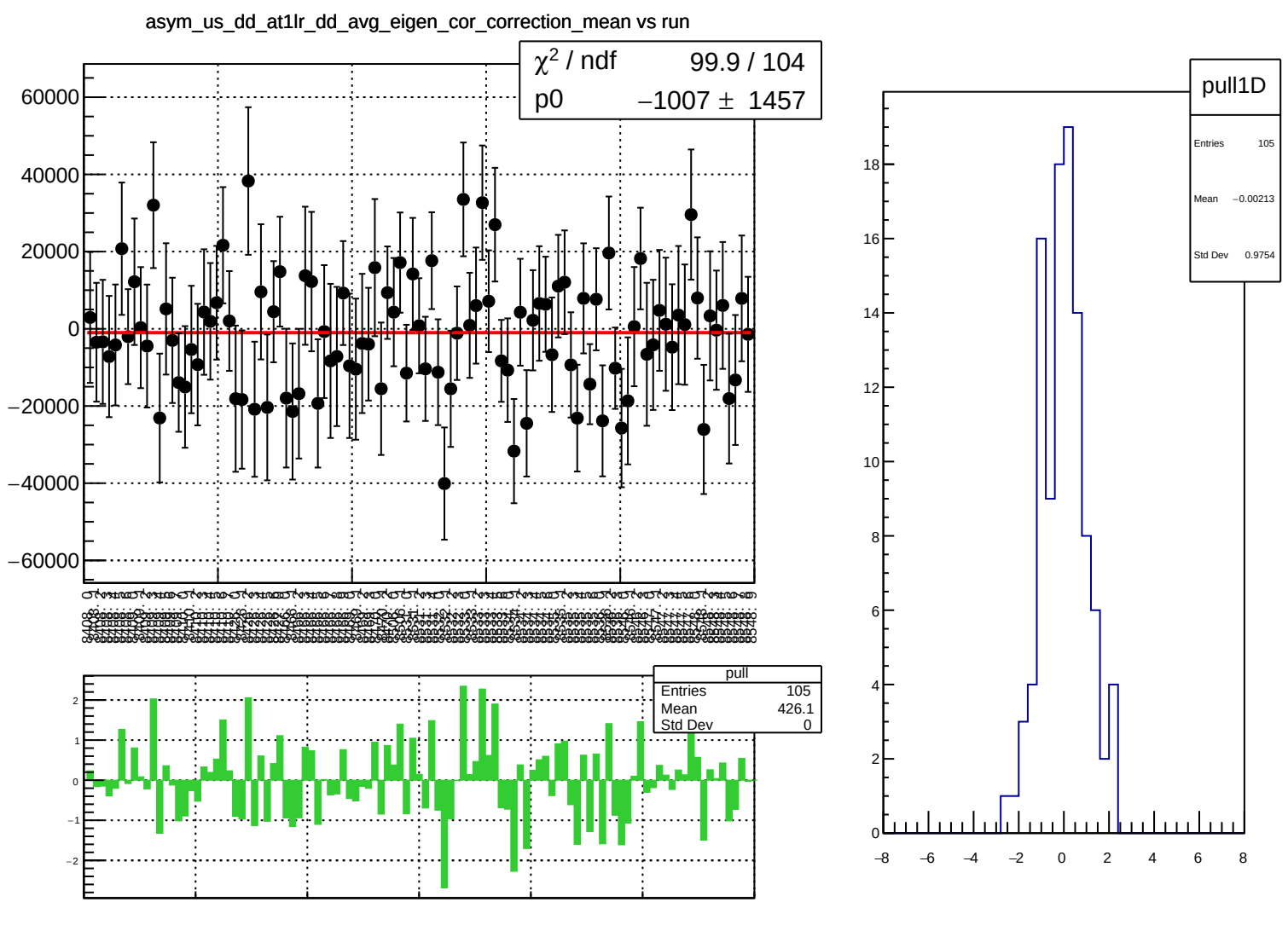

asym_us_dd_at1lr_dd_avg_cor_correction_mean vs run
χ² / ndf 99.9 / 104
p0 −1007 ± 1457
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean 426.1
Std Dev 0
2
1
0
−1
−2

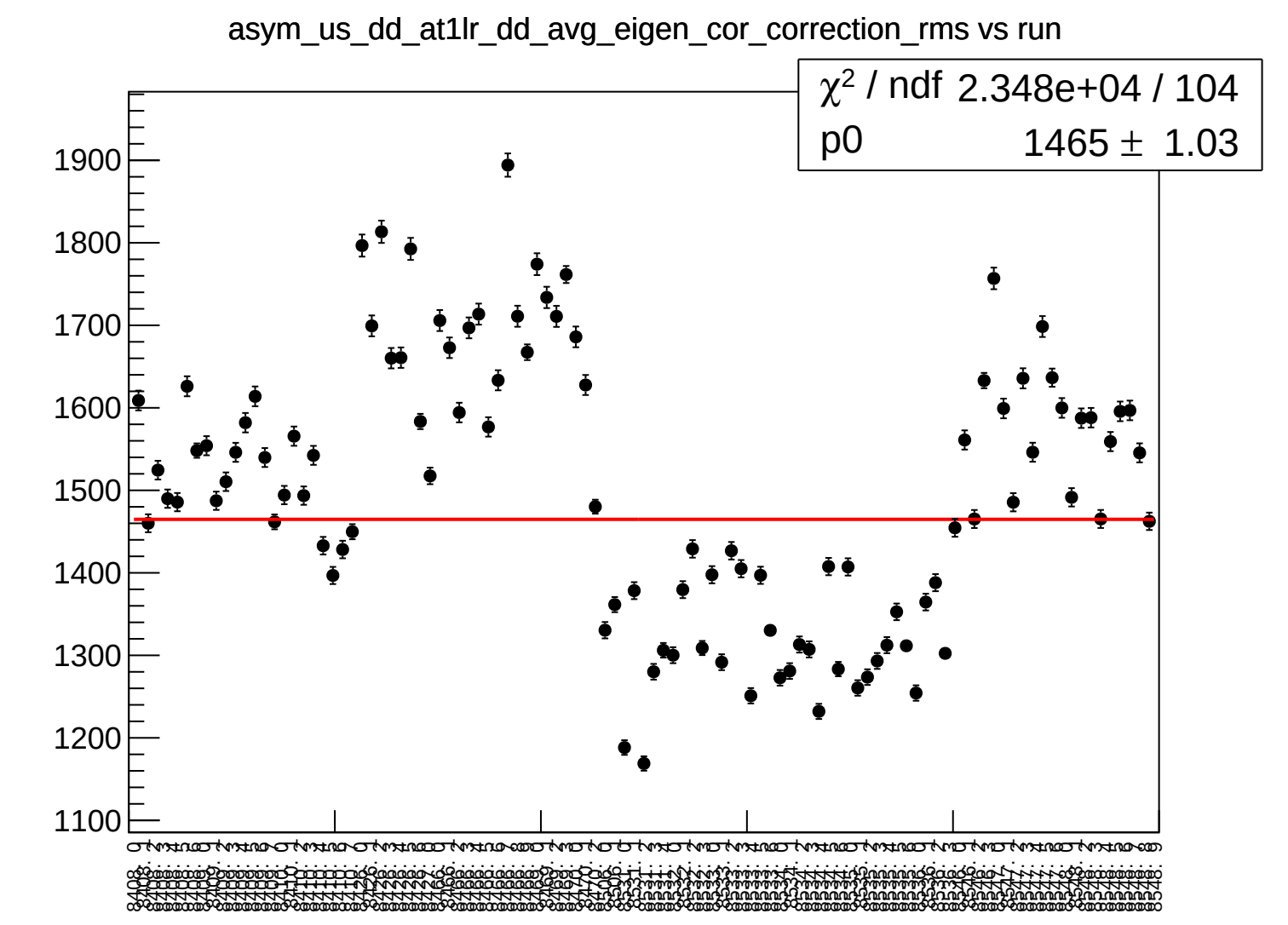

pull1D
Entries 105
Mean −0.00213
Std Dev 0.9754
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

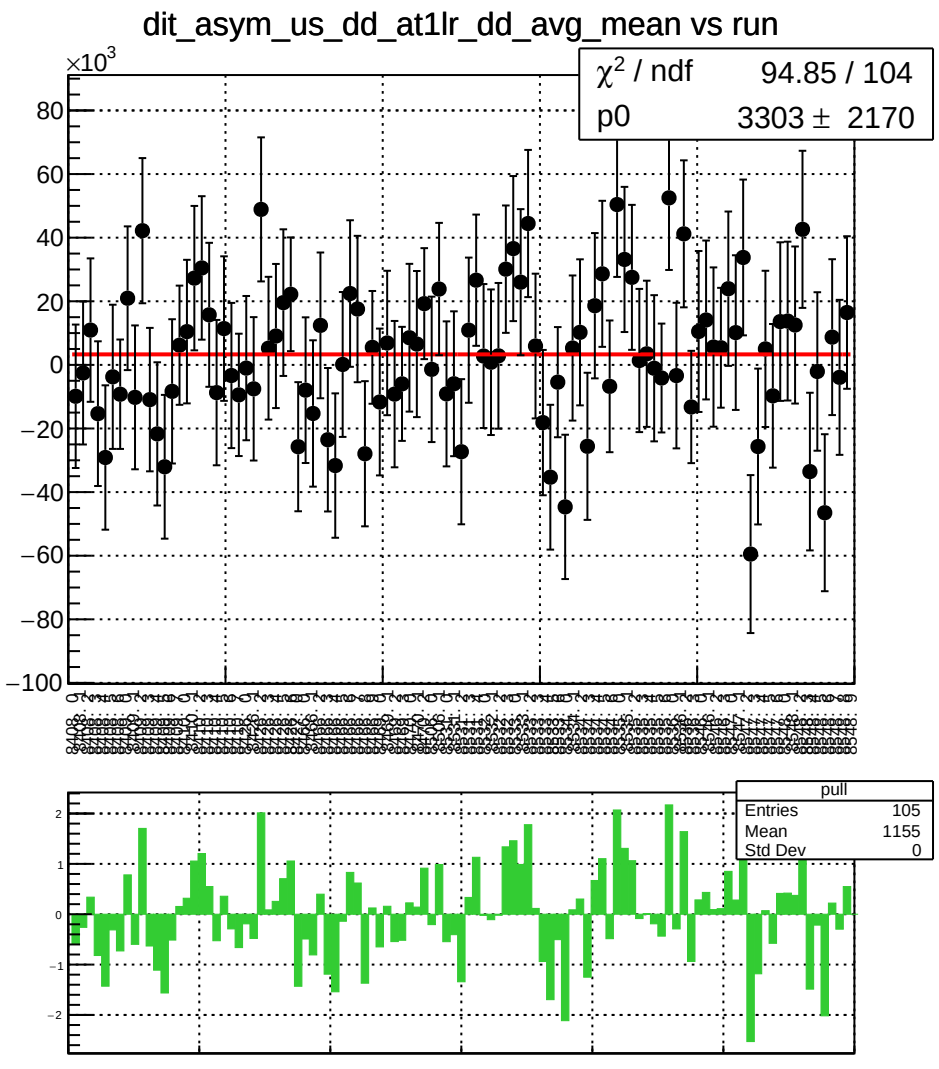

asym_us_dd_at1lr_dd_avg_cor_correction_rms vs run
χ² / ndf 2.348e+04 / 104
p0 1465 ± 1.03
1900
1800
1700
1600
1500
1400
1300
1200
1100

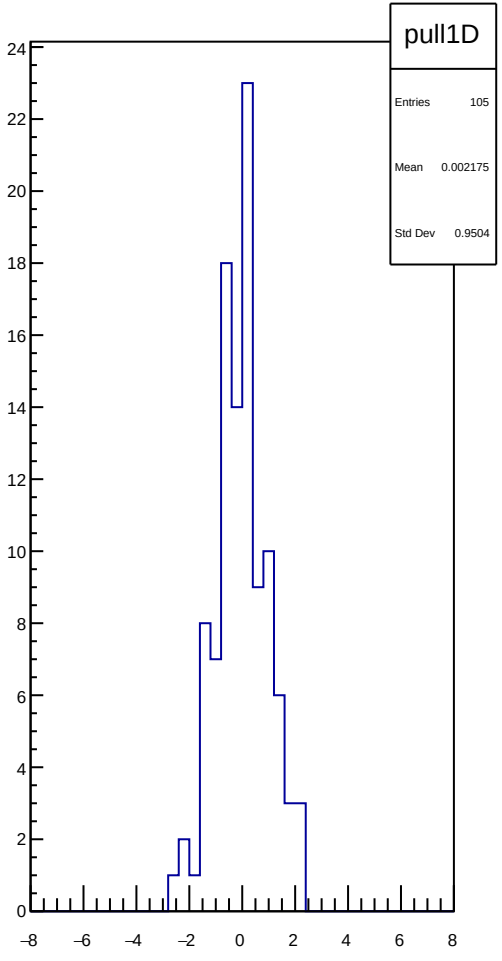

eigen_cor_asym_us_dd_at1lr_dd_avg_mean vs run
χ² / ndf 94.54 / 104
p0 3337 ± 2169
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 105
Mean 1046
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.002391
Std Dev 0.9489
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

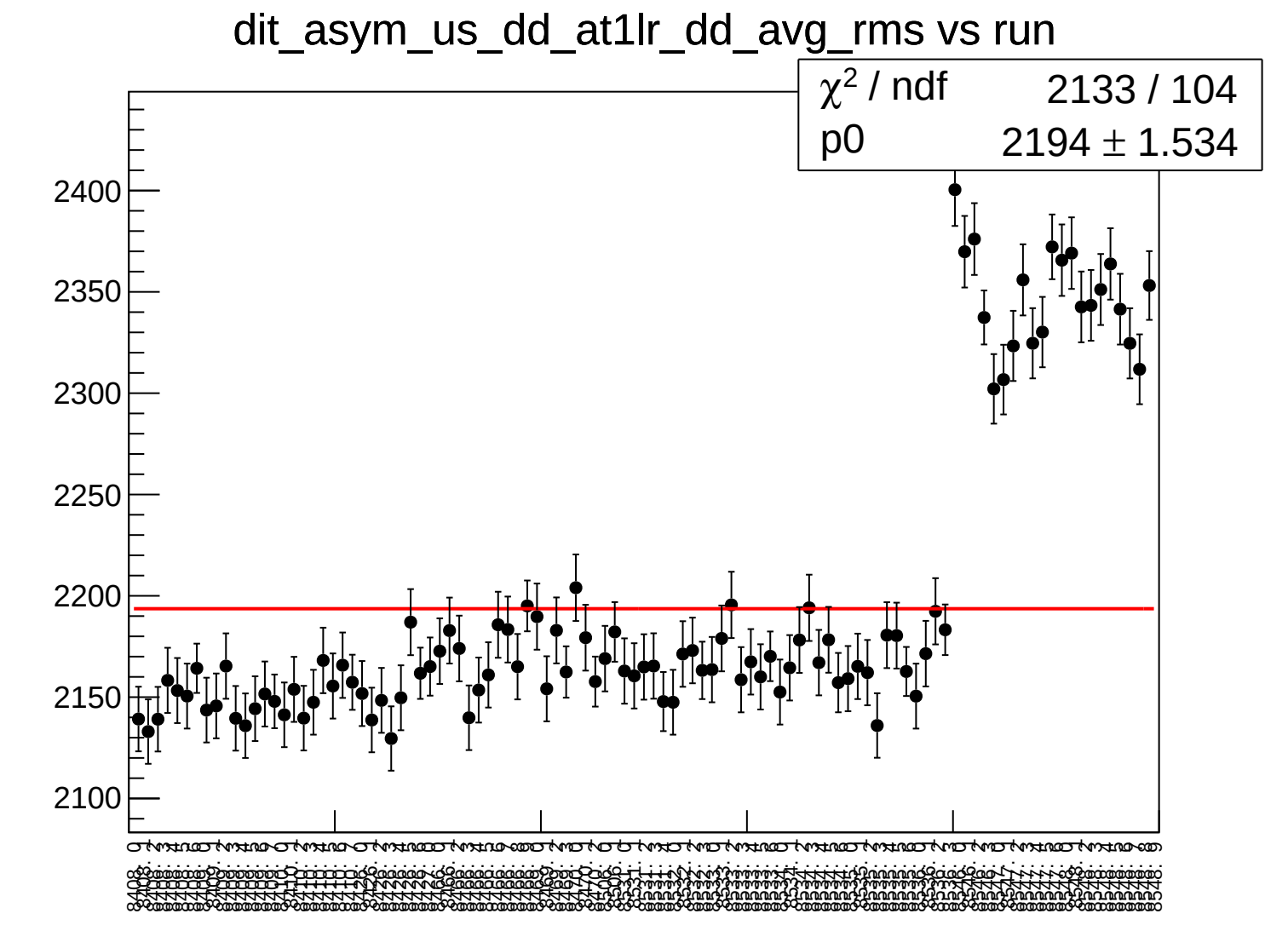

eigen_cor_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 2130 / 104
p0 2193 ± 1.534
2400
2350
2300
2250
2200
2150
2100

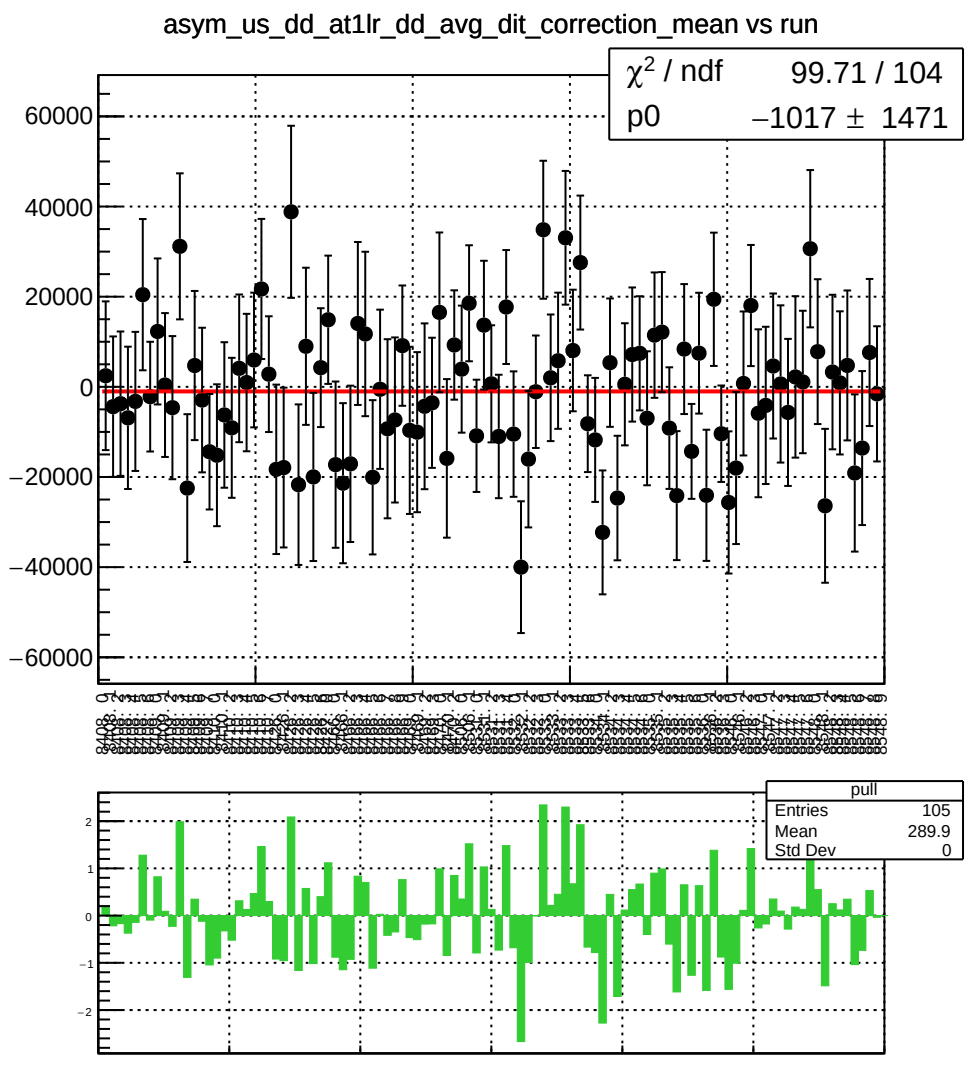

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_mean vs run
χ² / ndf 99.9 / 104
p0 −1007 ± 1457
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean 426.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.00213
Std Dev 0.9754
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

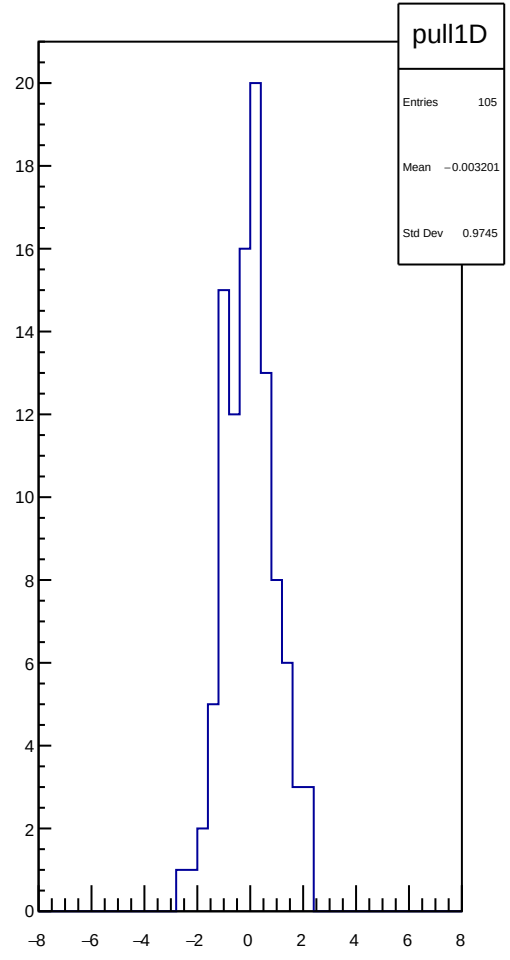

asym_us_dd_at1lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.348e+04 / 104
p0 1465 ± 1.03
1900
1800
1700
1600
1500
1400
1300
1200
1100

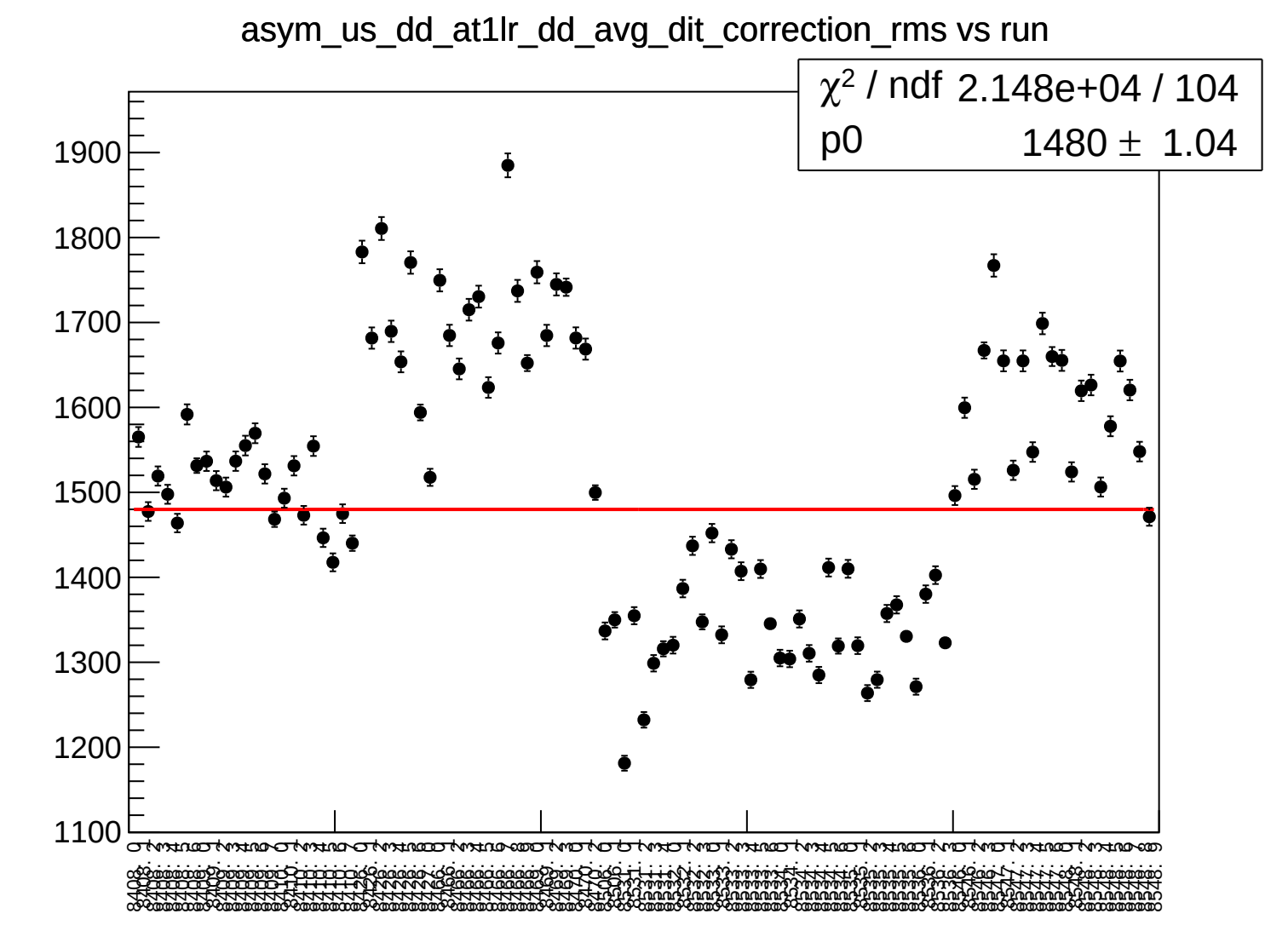

dit_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ^2 / ndf 94.85 / 104
p0 3303 ± 2170
pull
Entries 105
Mean 1155
Std Dev 0

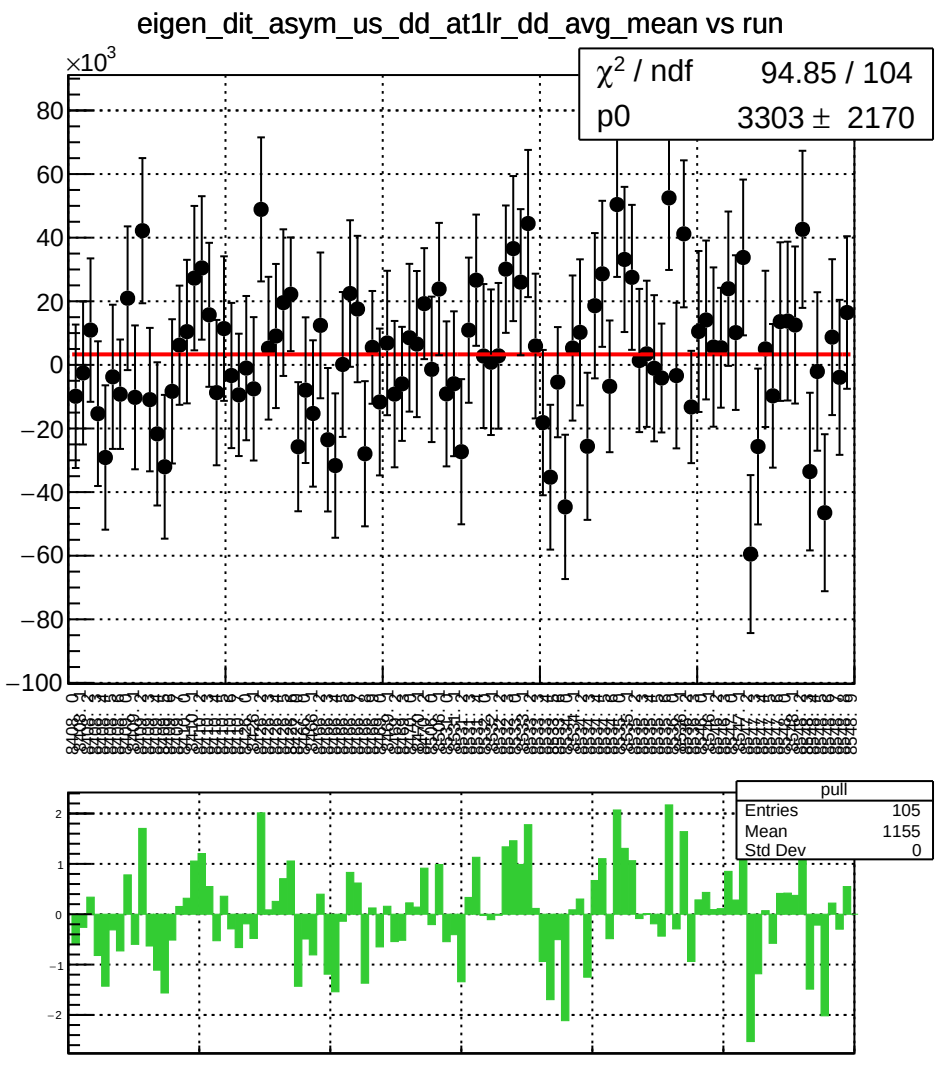

pull1D
Entries 105
Mean 0.002175
Std Dev 0.9504

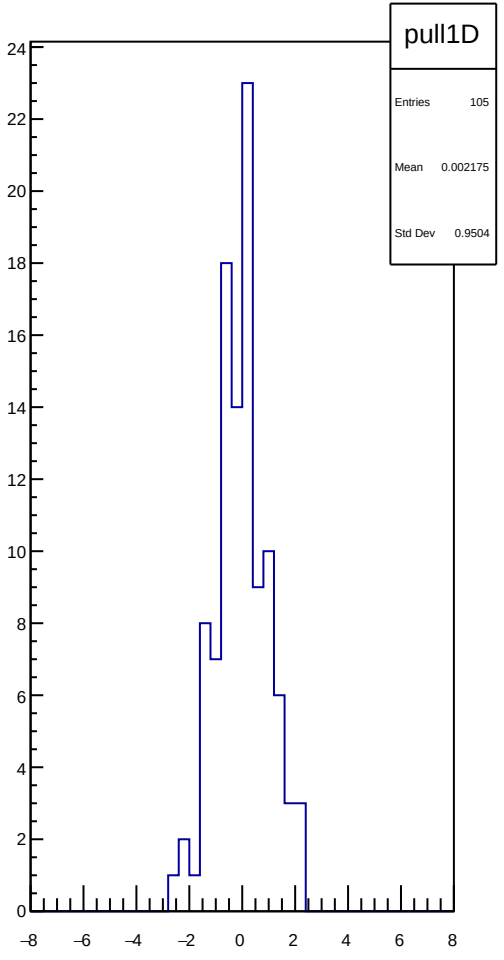

dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 2133 / 104
p0 2194 ± 1.534
2400
2350
2300
2250
2200
2150
2100

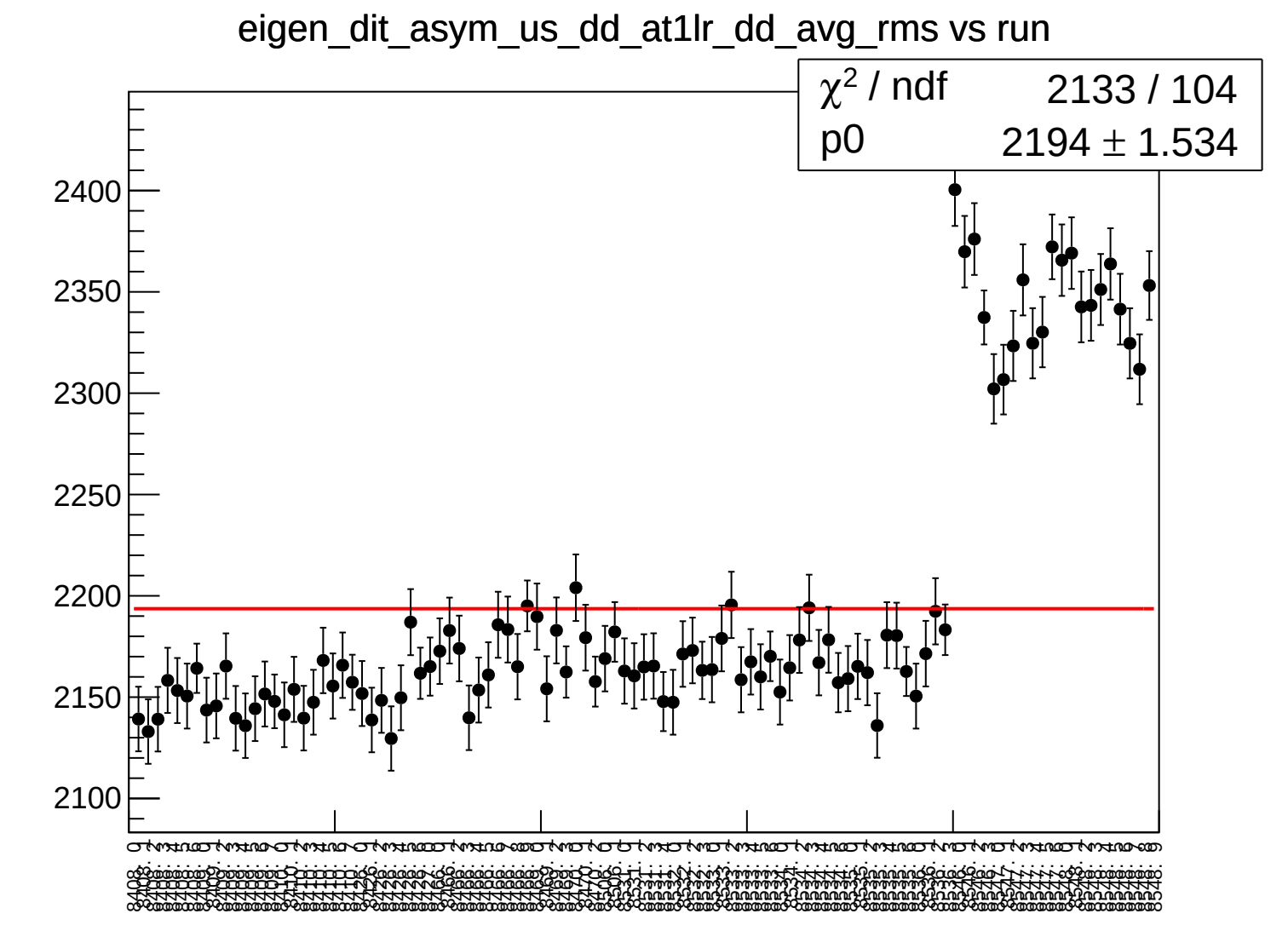

asym_us_dd_at1lr_dd_avg_dit_correction_mean vs run
χ² / ndf 99.71 / 104
p0 −1017 ± 1471
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean 289.9
Std Dev 0
2
1
0
−1
−2

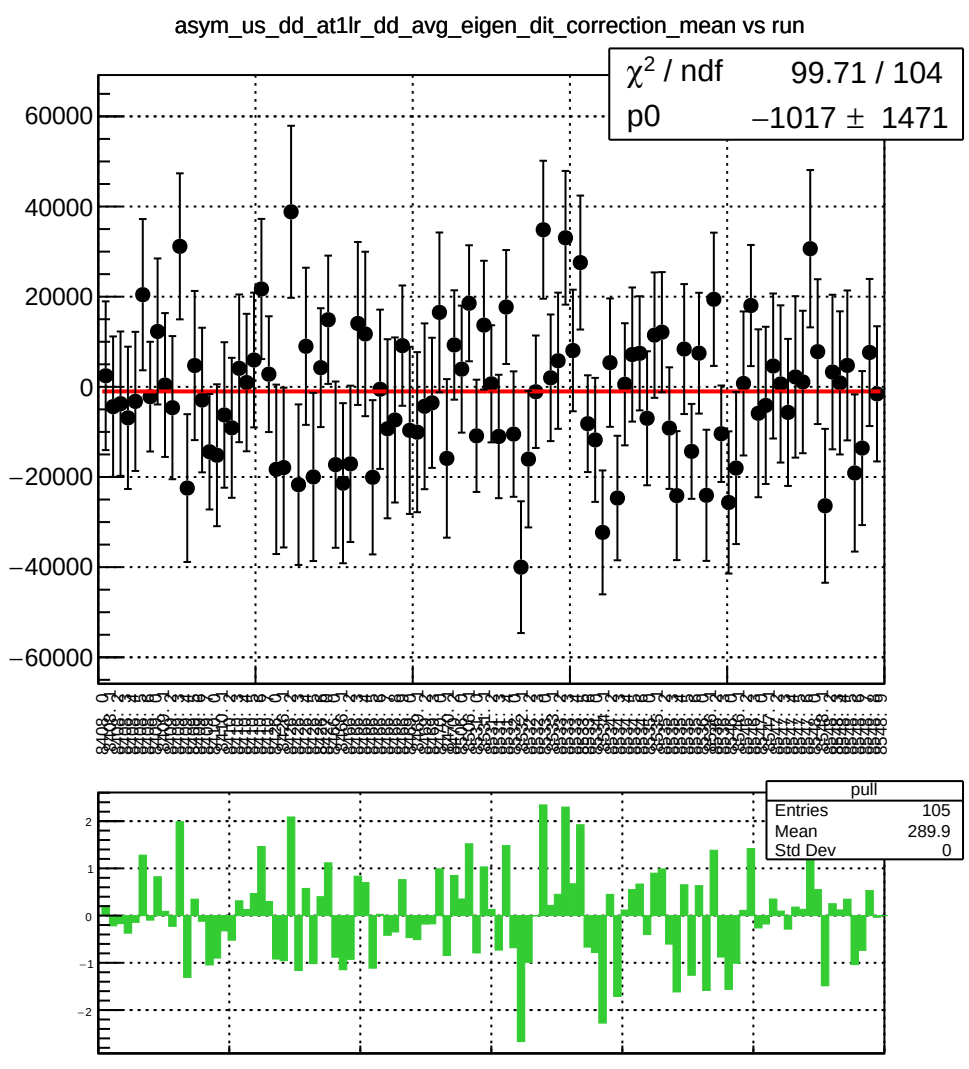

pull1D
Entries 105
Mean −0.003201
Std Dev 0.9745
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

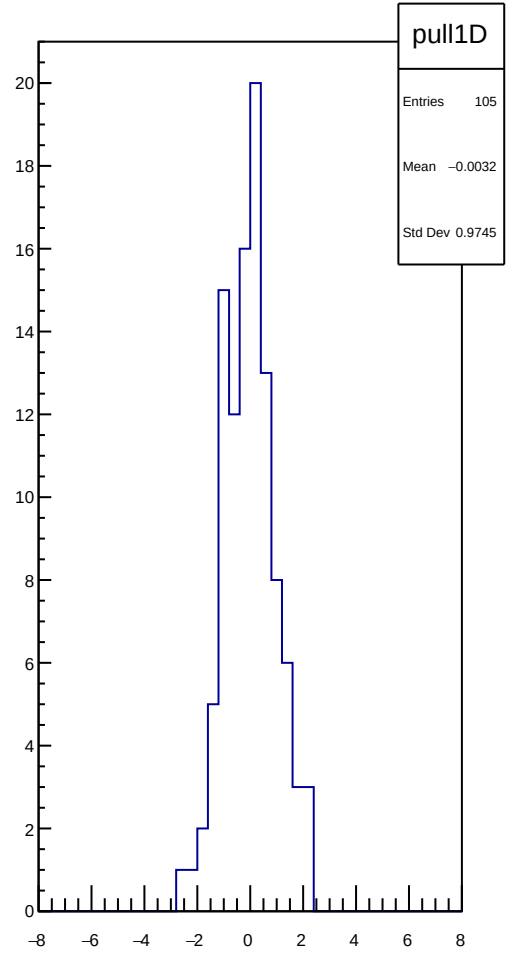

asym_us_dd_at1lr_dd_avg_dit_correction_rms vs run
χ² / ndf 2.148e+04 / 104
p0 1480 ± 1.04
1900
1800
1700
1600
1500
1400
1300
1200
1100

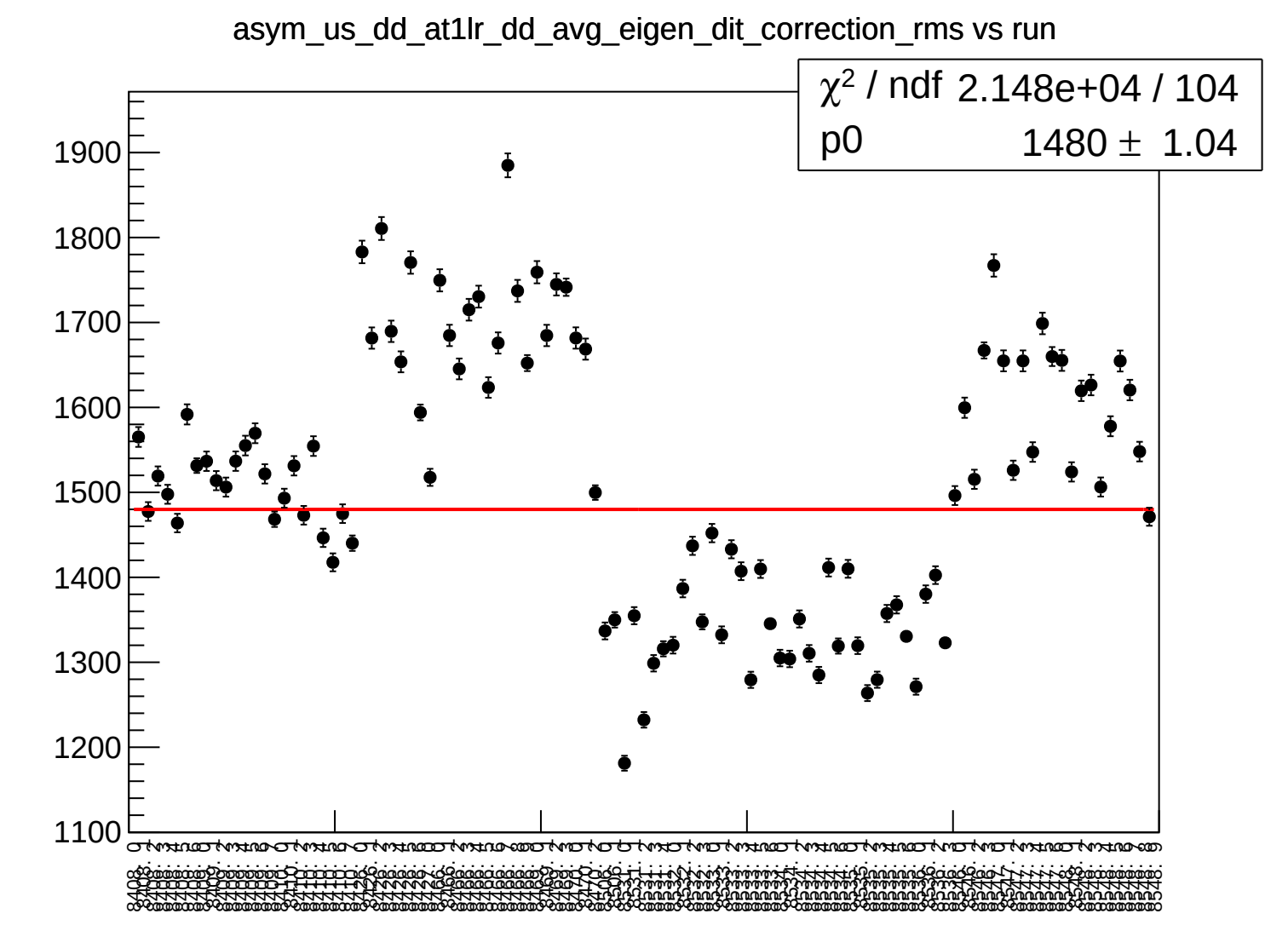

eigen_dit_asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ^2 / ndf 94.85 / 104
p0 3303 ± 2170
pull
Entries 105
Mean 1155
Std Dev 0

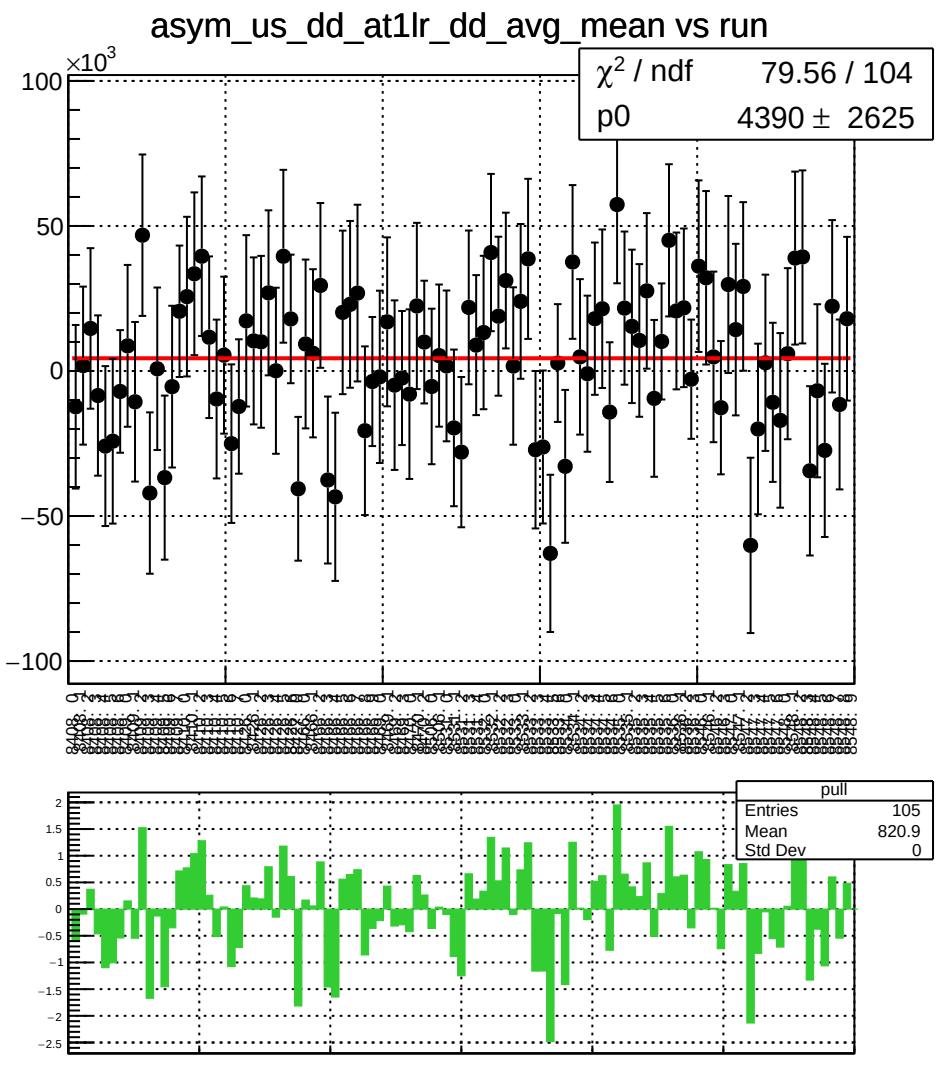

pull1D
Entries 105
Mean 0.002175
Std Dev 0.9504

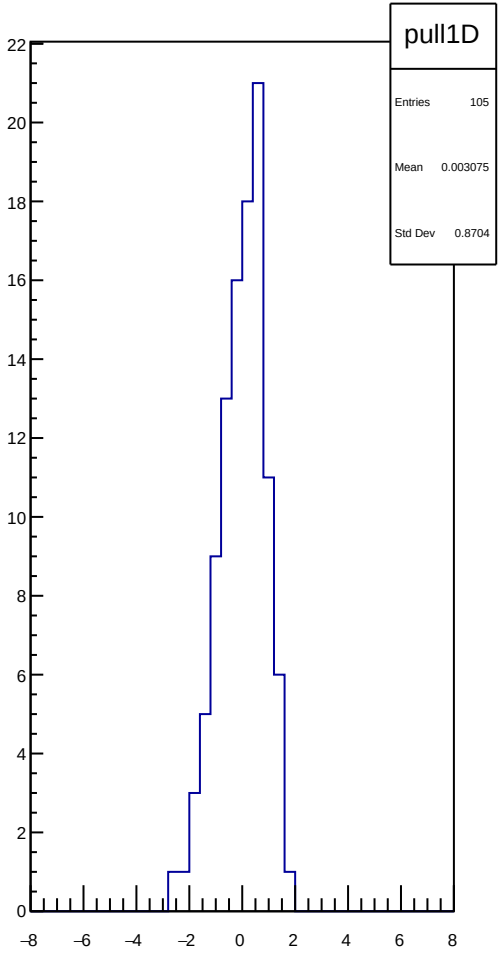

eigen_dit_asym_us_dd_at1lr_dd_avg_rms vs run
χ^2 / ndf 2133 / 104
p0 2194 ± 1.534
2400
2350
2300
2250
2200
2150
2100

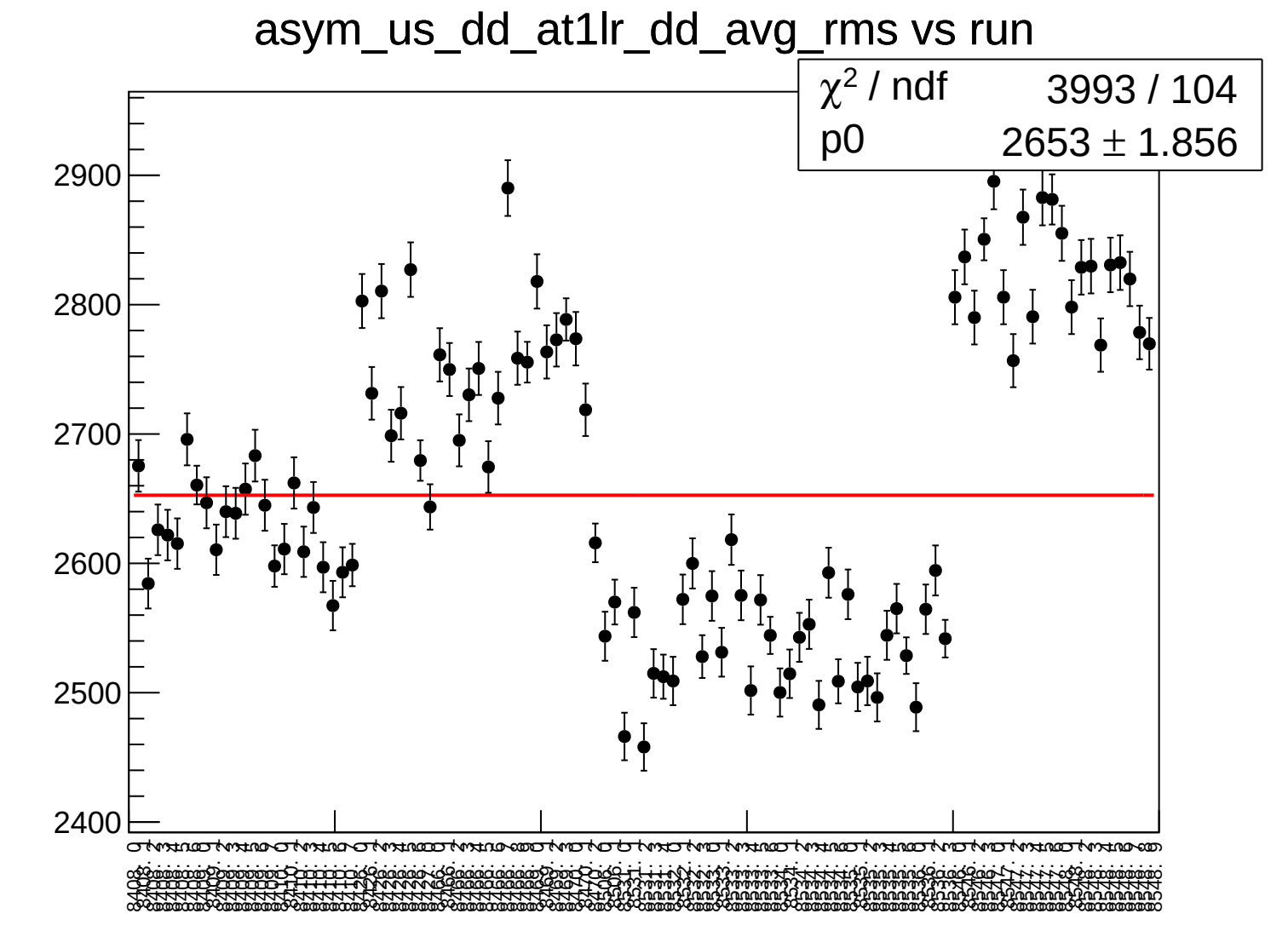

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_mean vs run
χ² / ndf 99.71 / 104
p0 −1017 ± 1471
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean 289.9
Std Dev 0
2
1
0
−1
−2

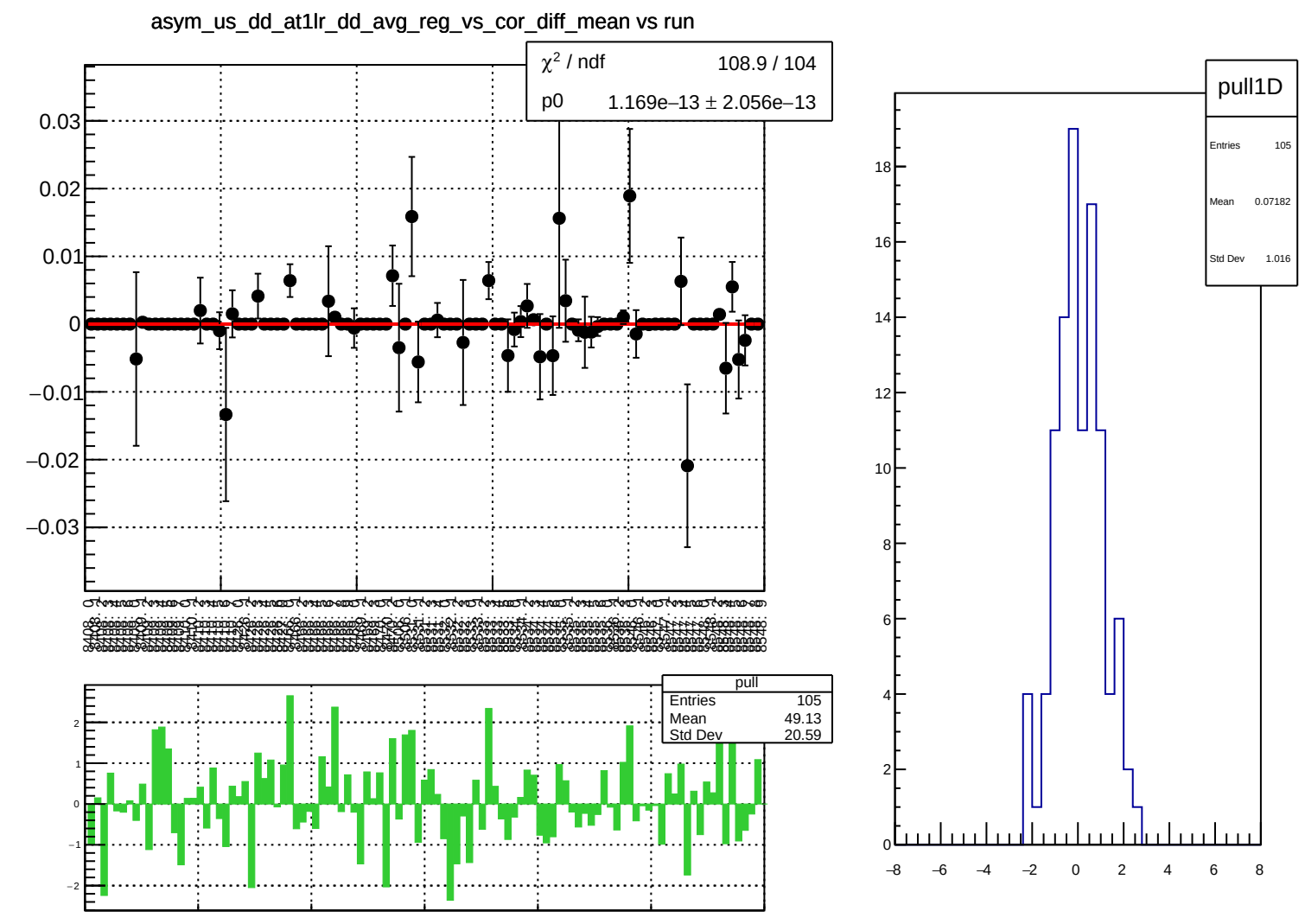

pull1D
Entries 105
Mean −0.0032
Std Dev 0.9745
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

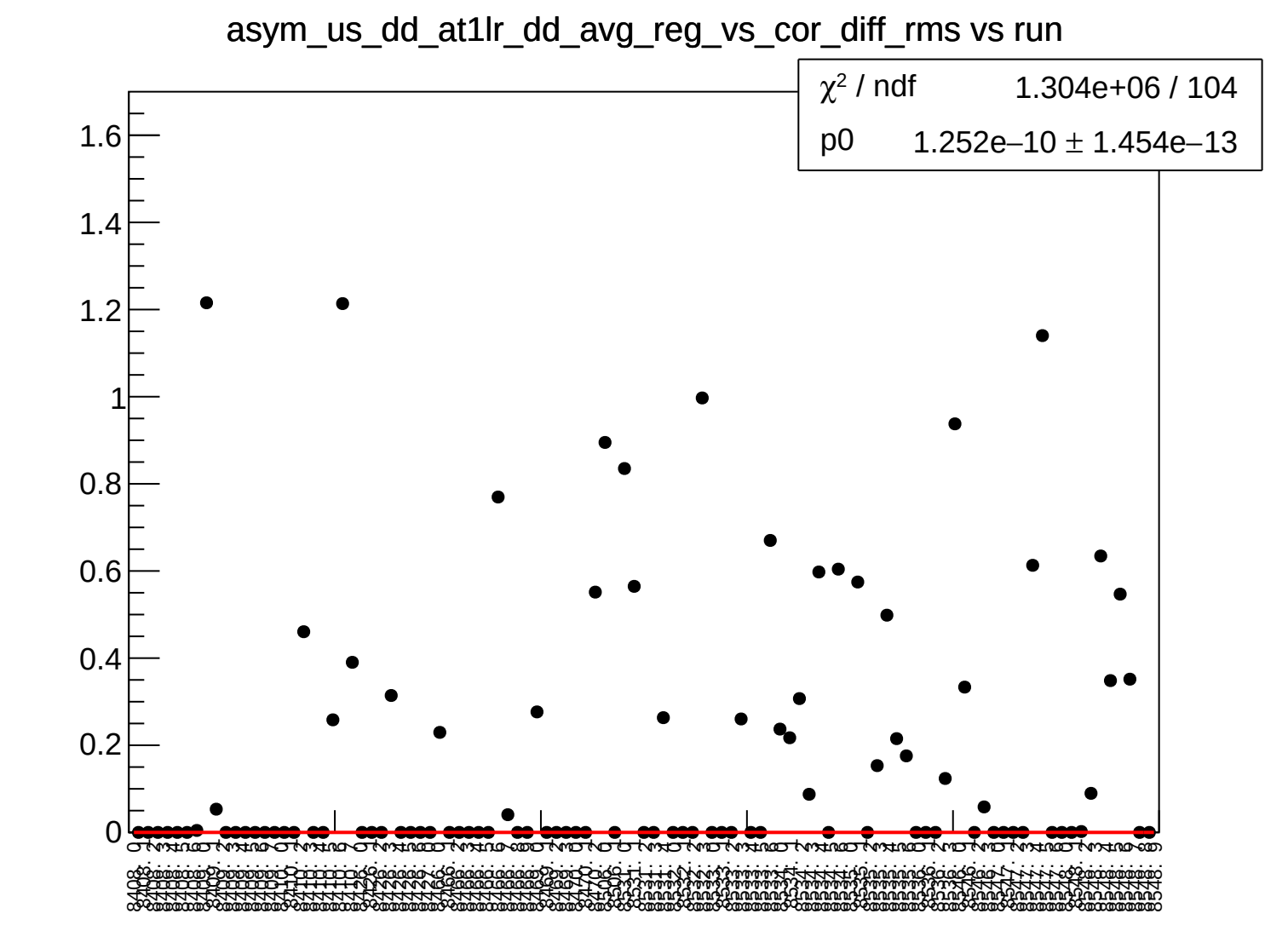

asym_us_dd_at1lr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.148e+04 / 104
p0 1480 ± 1.04
1900
1800
1700
1600
1500
1400
1300
1200
1100

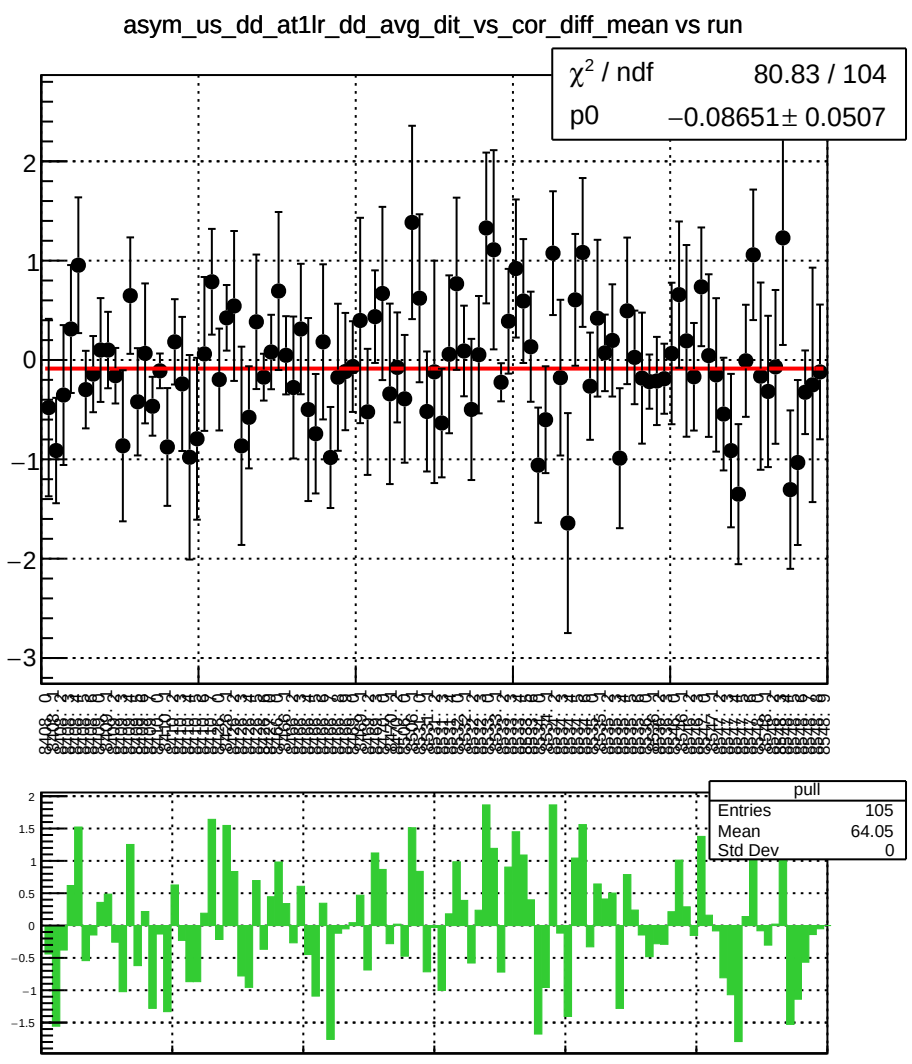

asym_us_dd_at1lr_dd_avg_mean vs run
×10^3
χ^2 / ndf 79.56 / 104
p0 4390 ± 2625
pull
Entries 105
Mean 820.9
Std Dev 0

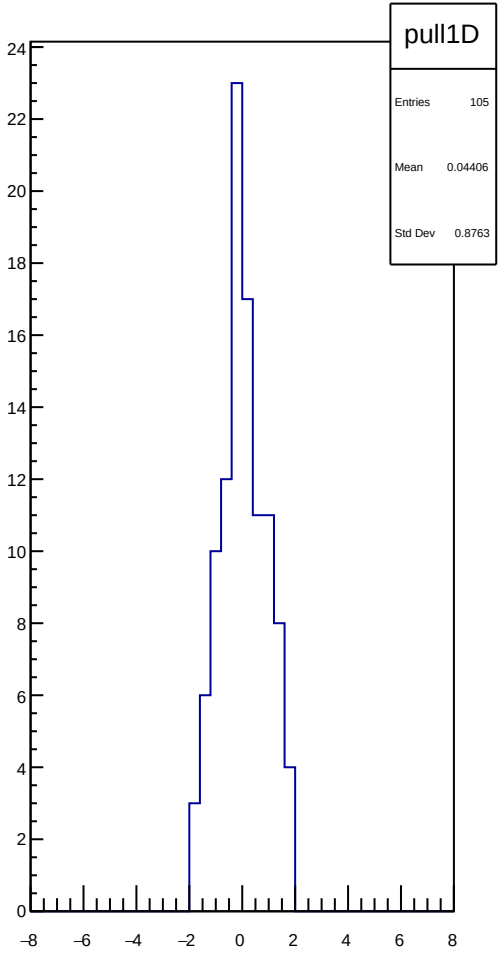

pull1D
Entries 105
Mean 0.003075
Std Dev 0.8704

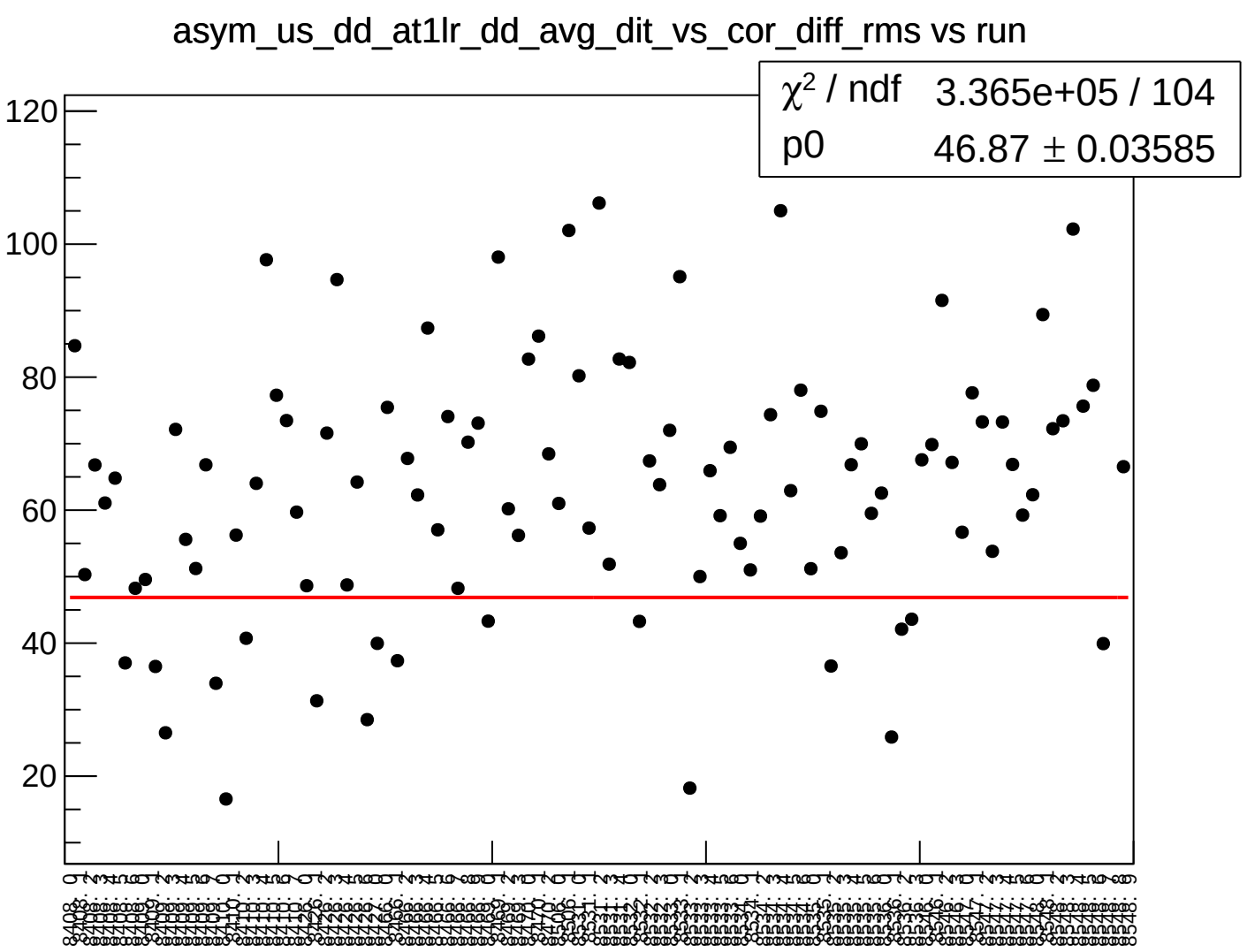

asym_us_dd_at1lr_dd_avg_rms vs run
χ² / ndf 3993 / 104
p0 2653 ± 1.856
2900
2800
2700
2600
2500
2400

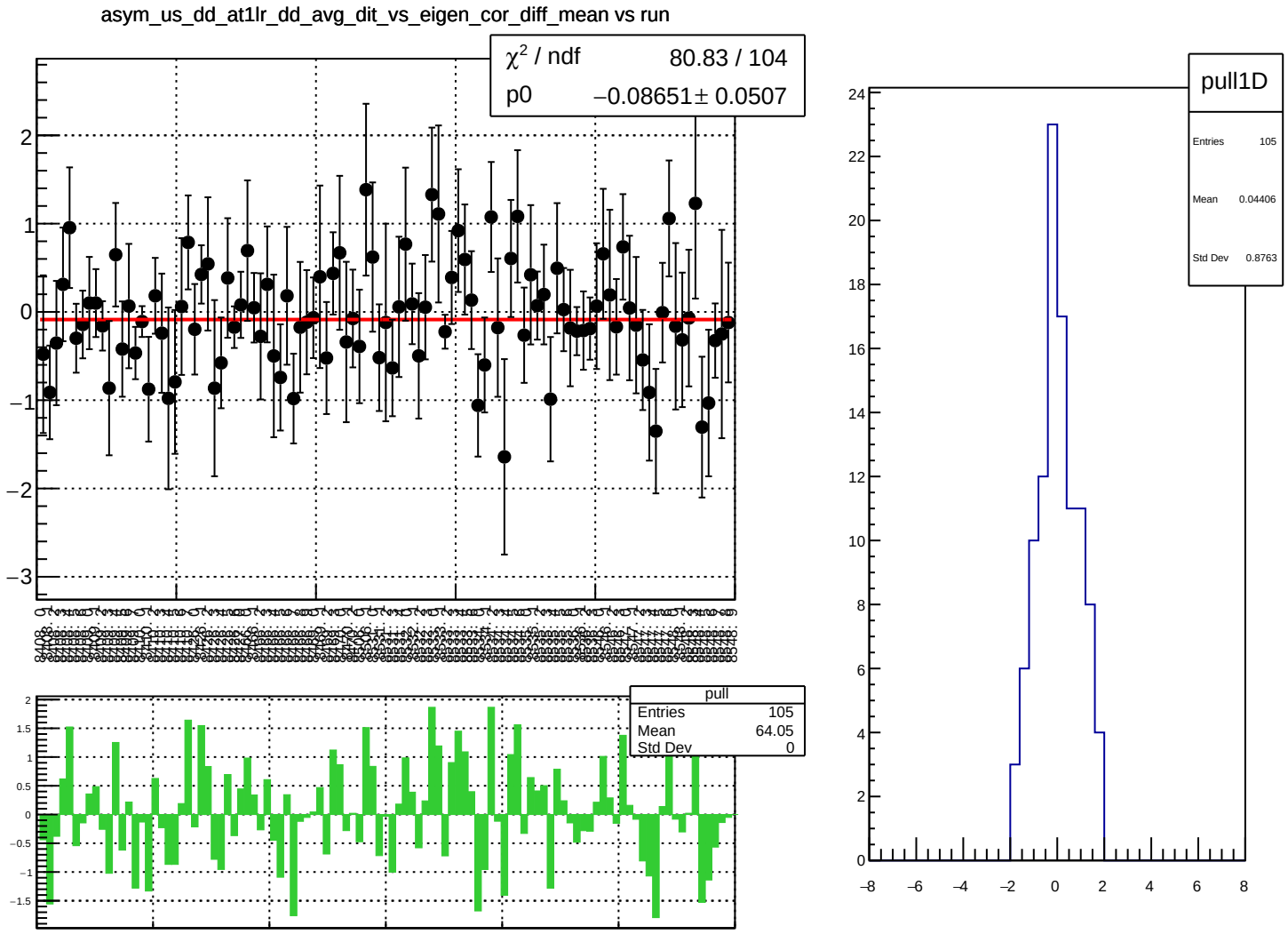

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 108.9 / 104
p0 1.169e−13 ± 2.056e−13
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
pull
Entries 105
Mean 49.13
Std Dev 20.59
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.07182
Std Dev 1.016
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

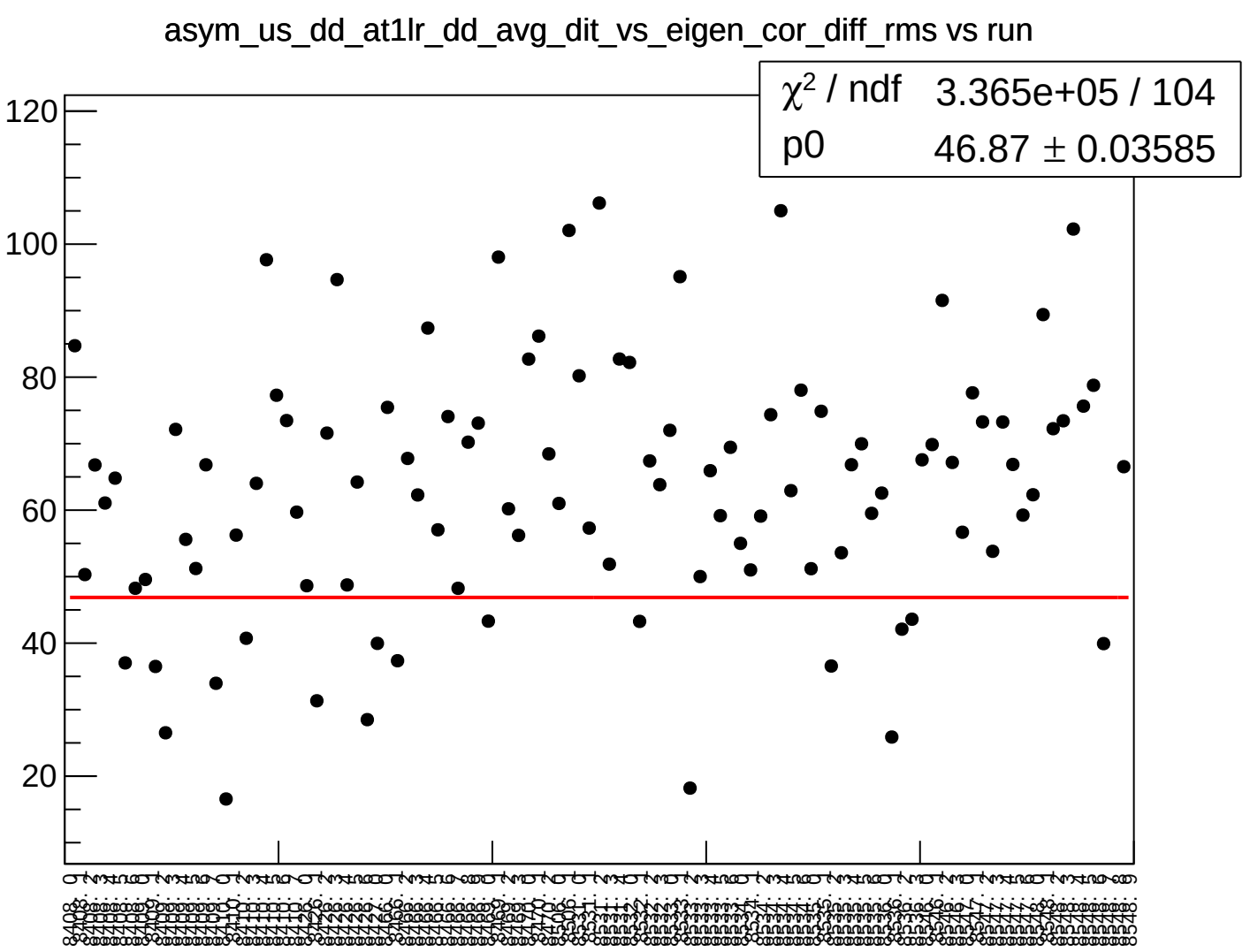

asym_us_dd_at1lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.304e+06 / 104
p0 1.252e−10 ± 1.454e−13
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0

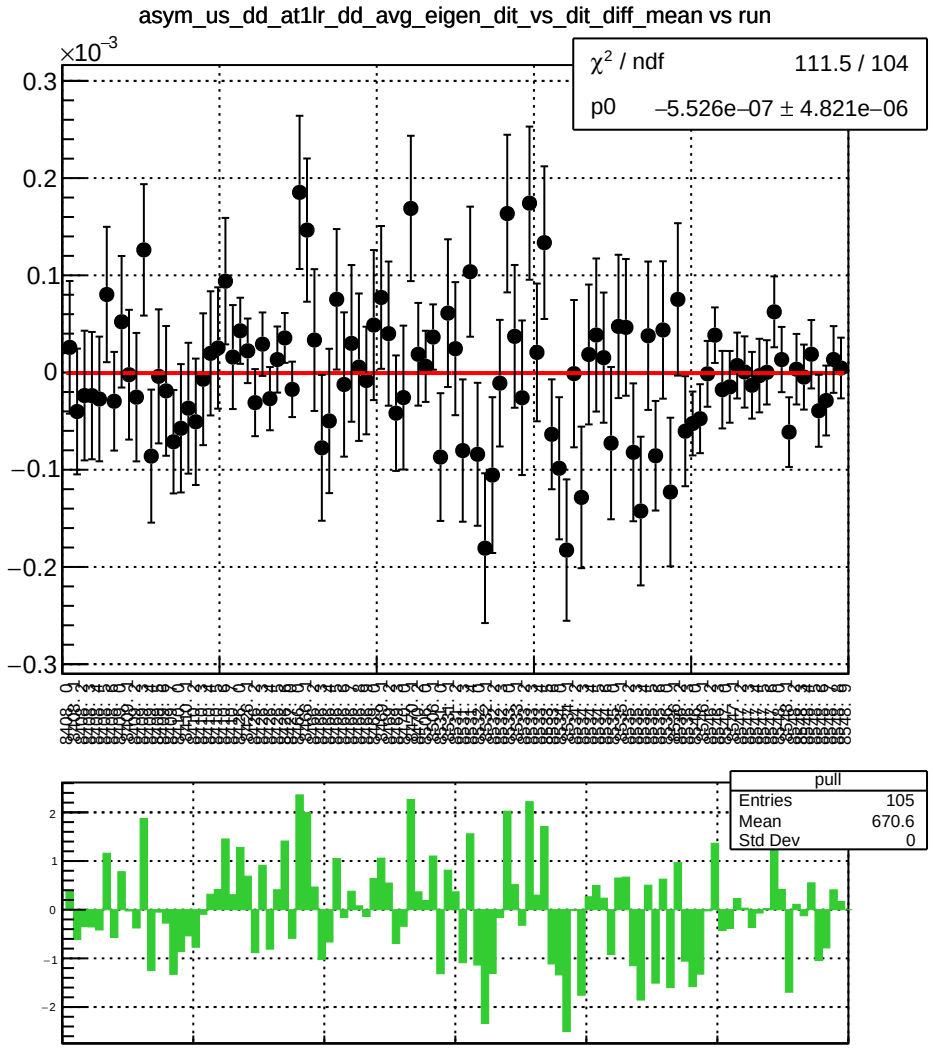

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 80.83 / 104
p0 −0.08651 ± 0.0507
pull
Entries 105
Mean 64.05
Std Dev 0

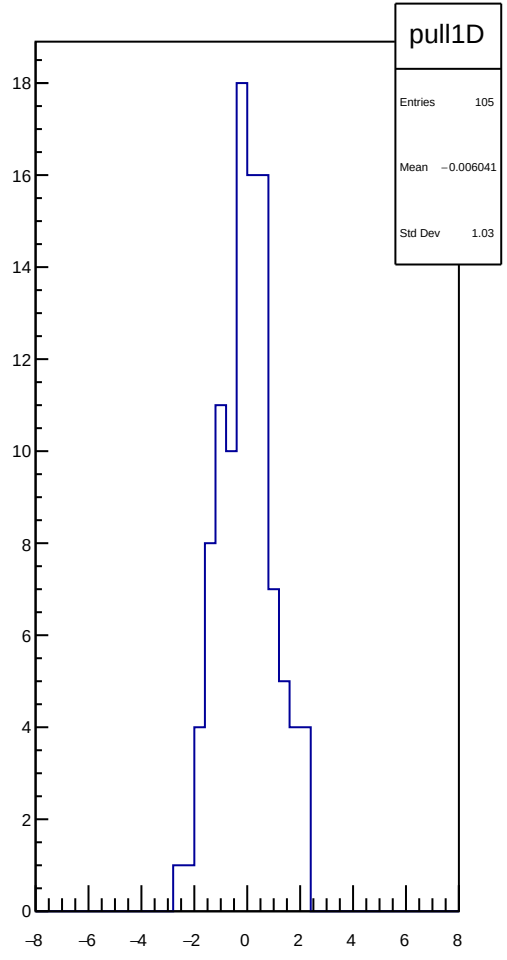

pull1D
Entries 105
Mean 0.04406
Std Dev 0.8763

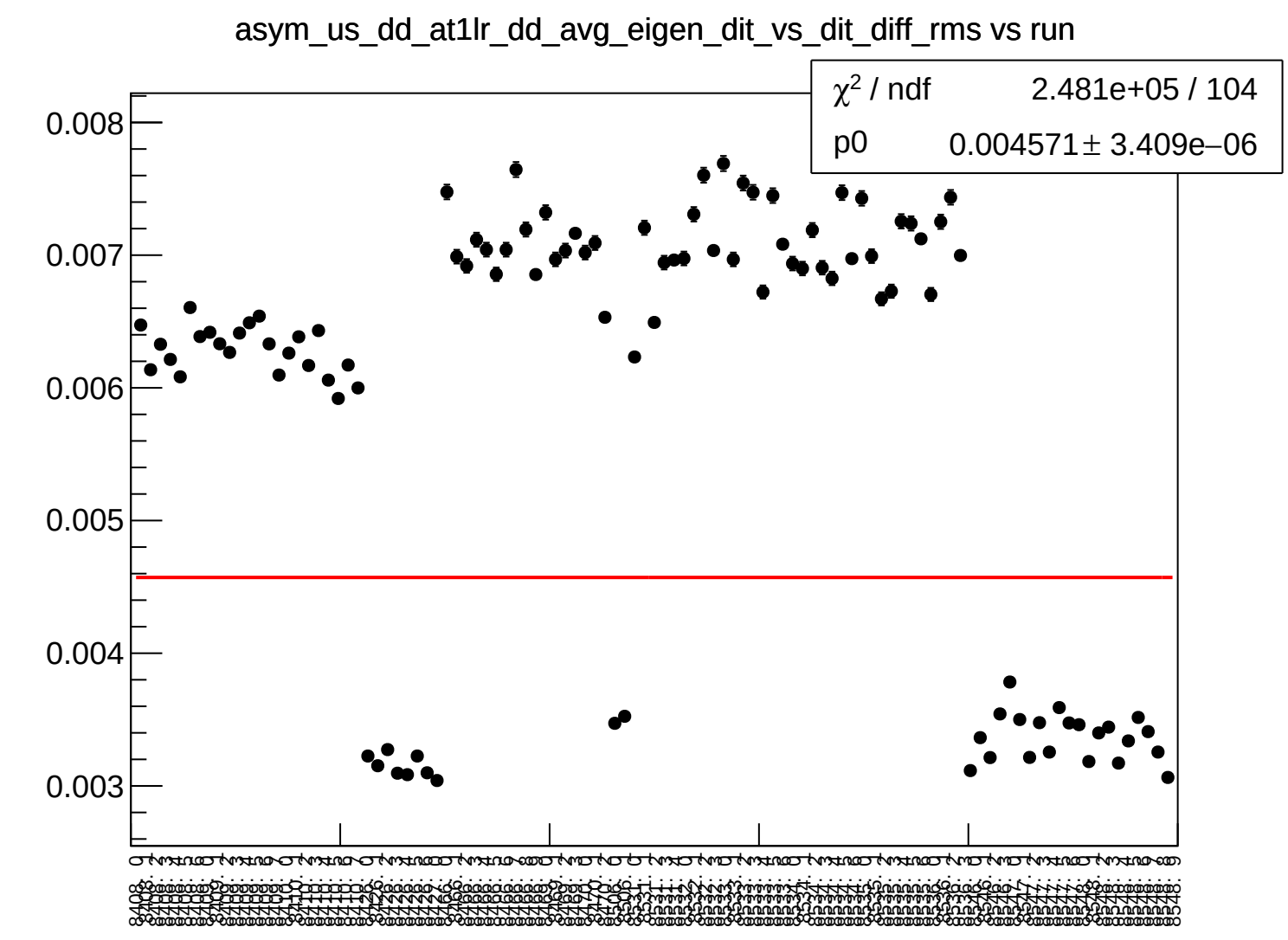

asym_us_dd_at1lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 3.365e+05 / 104
p0 46.87 ± 0.03585
120
100
80
60
40
20

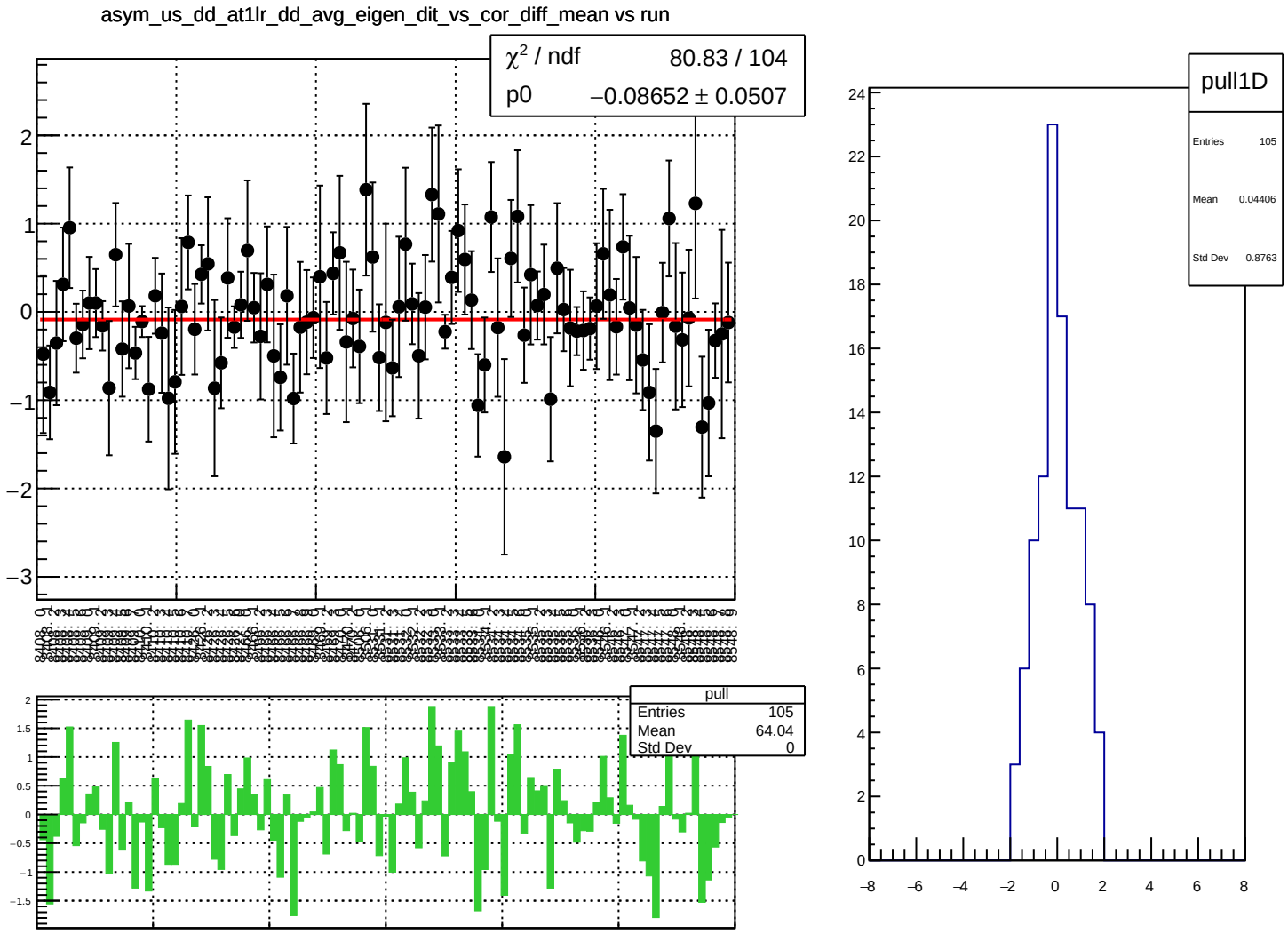

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.83 / 104
p0 −0.08651 ± 0.0507
pull
Entries 105
Mean 64.05
Std Dev 0
pull1D
Entries 105
Mean 0.04406
Std Dev 0.8763

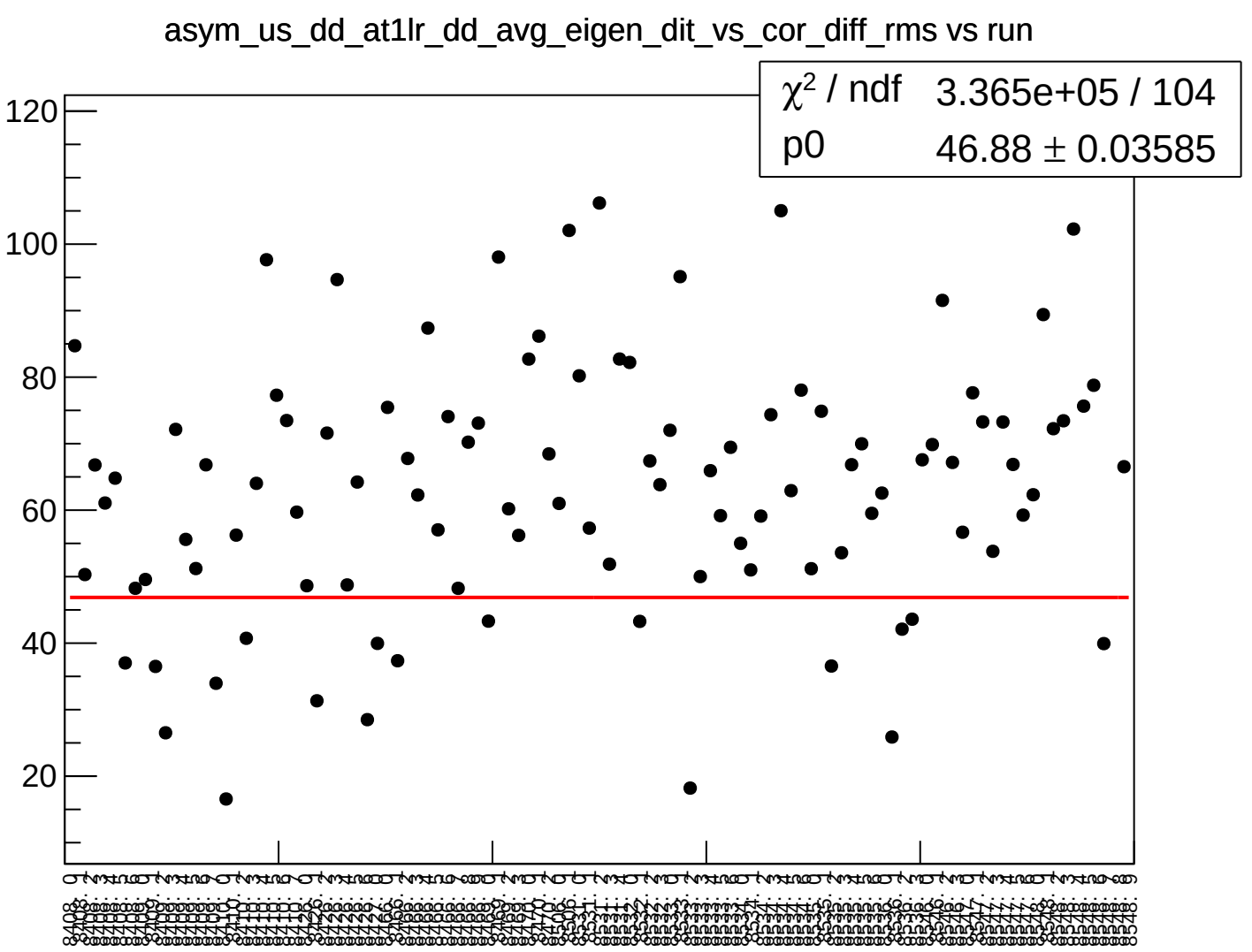

asym_us_dd_at1lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.365e+05 / 104
p0 46.87 ± 0.03585
120
100
80
60
40
20

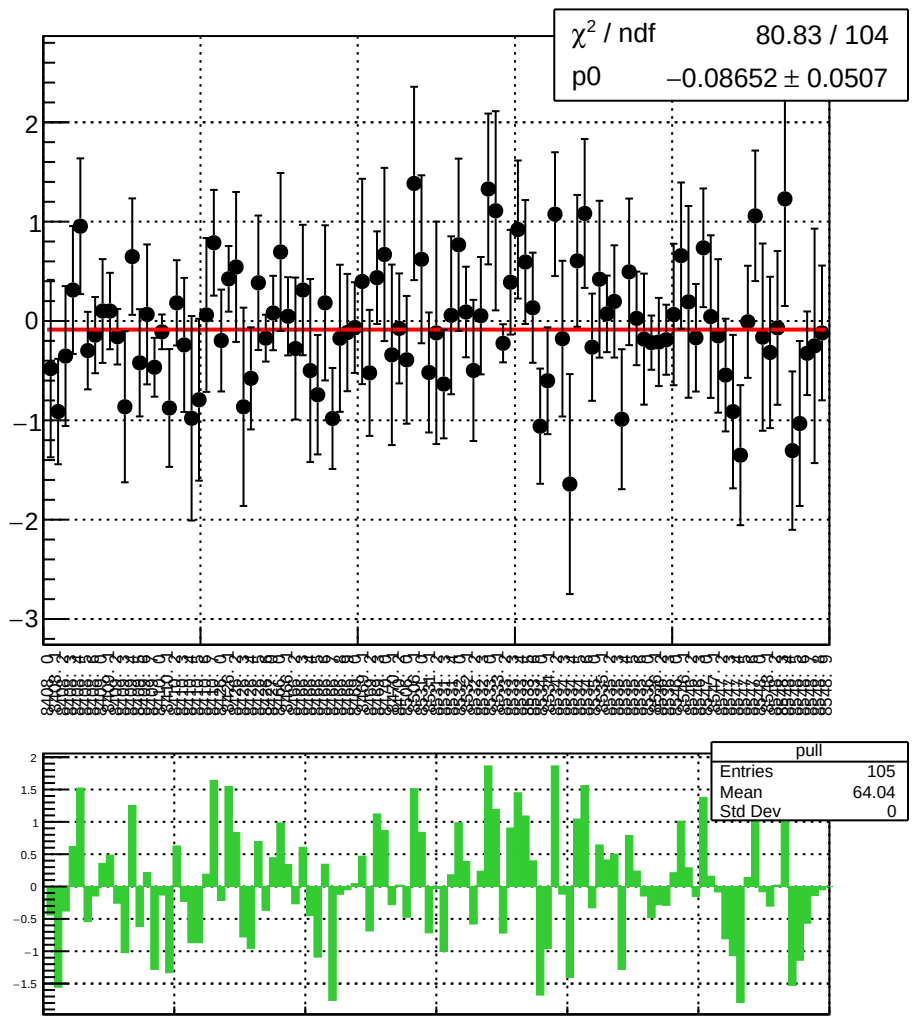

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 111.5 / 104
p0 −5.526e−07 ± 4.821e−06
pull
Entries 105
Mean 670.6
Std Dev 0

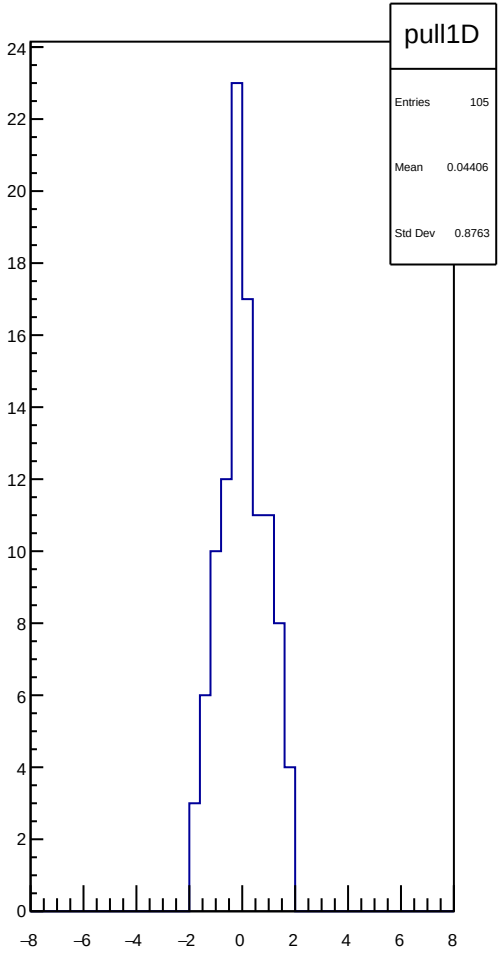

pull1D
Entries 105
Mean −0.006041
Std Dev 1.03

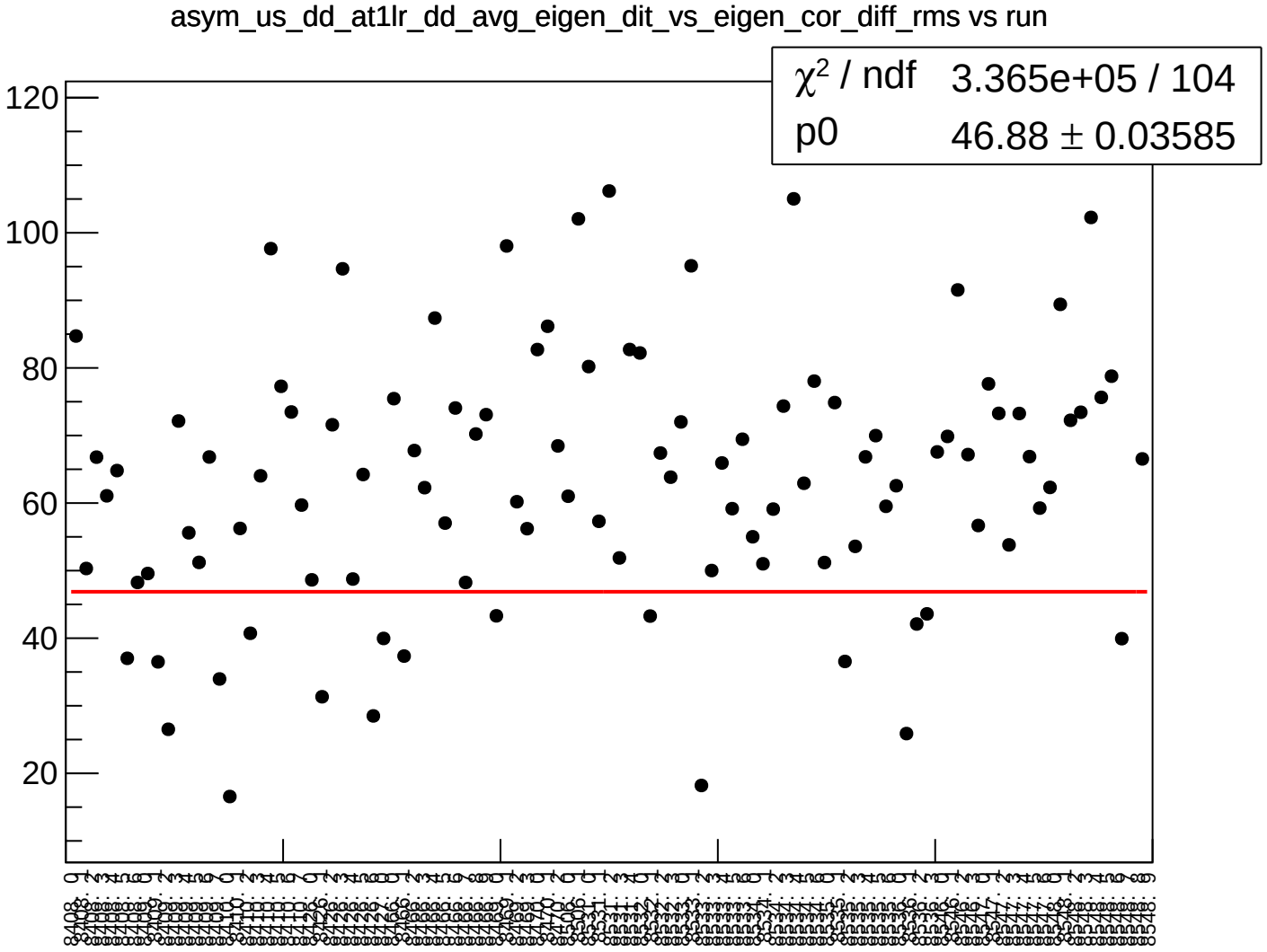

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.481e+05 / 104
p0 0.004571 ± 3.409e−06
0.008
0.007
0.006
0.005
0.004
0.003

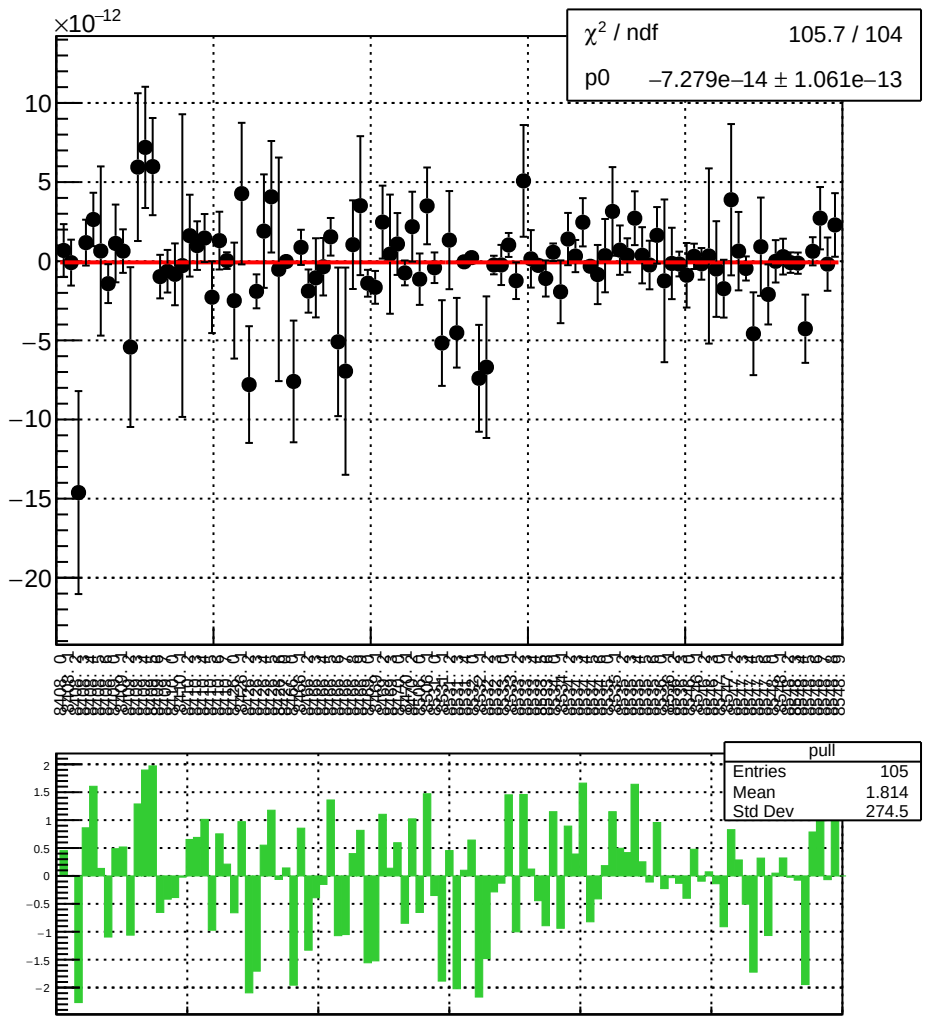

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 80.83 / 104
p0 −0.08652 ± 0.0507
pull
Entries 105
Mean 64.04
Std Dev 0
pull1D
Entries 105
Mean 0.04406
Std Dev 0.8763

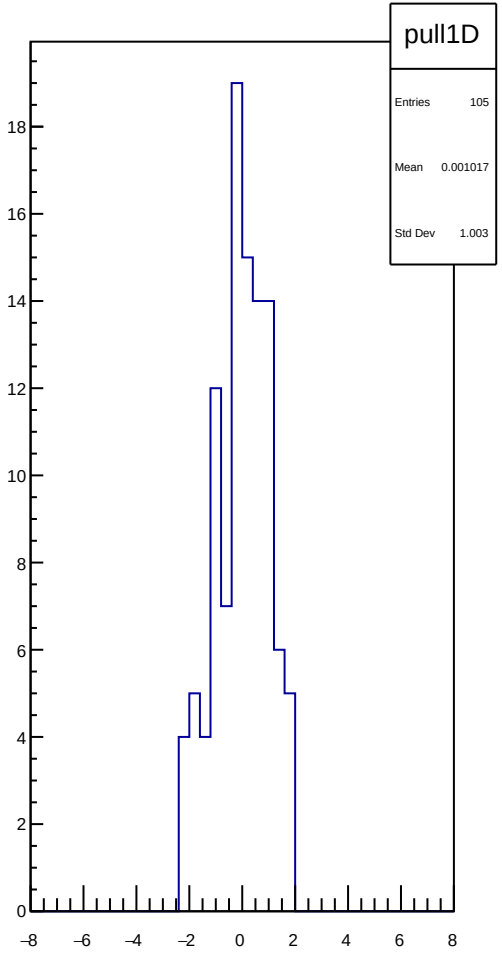

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.365e+05 / 104
p0 46.88 ± 0.03585
120
100
80
60
40
20

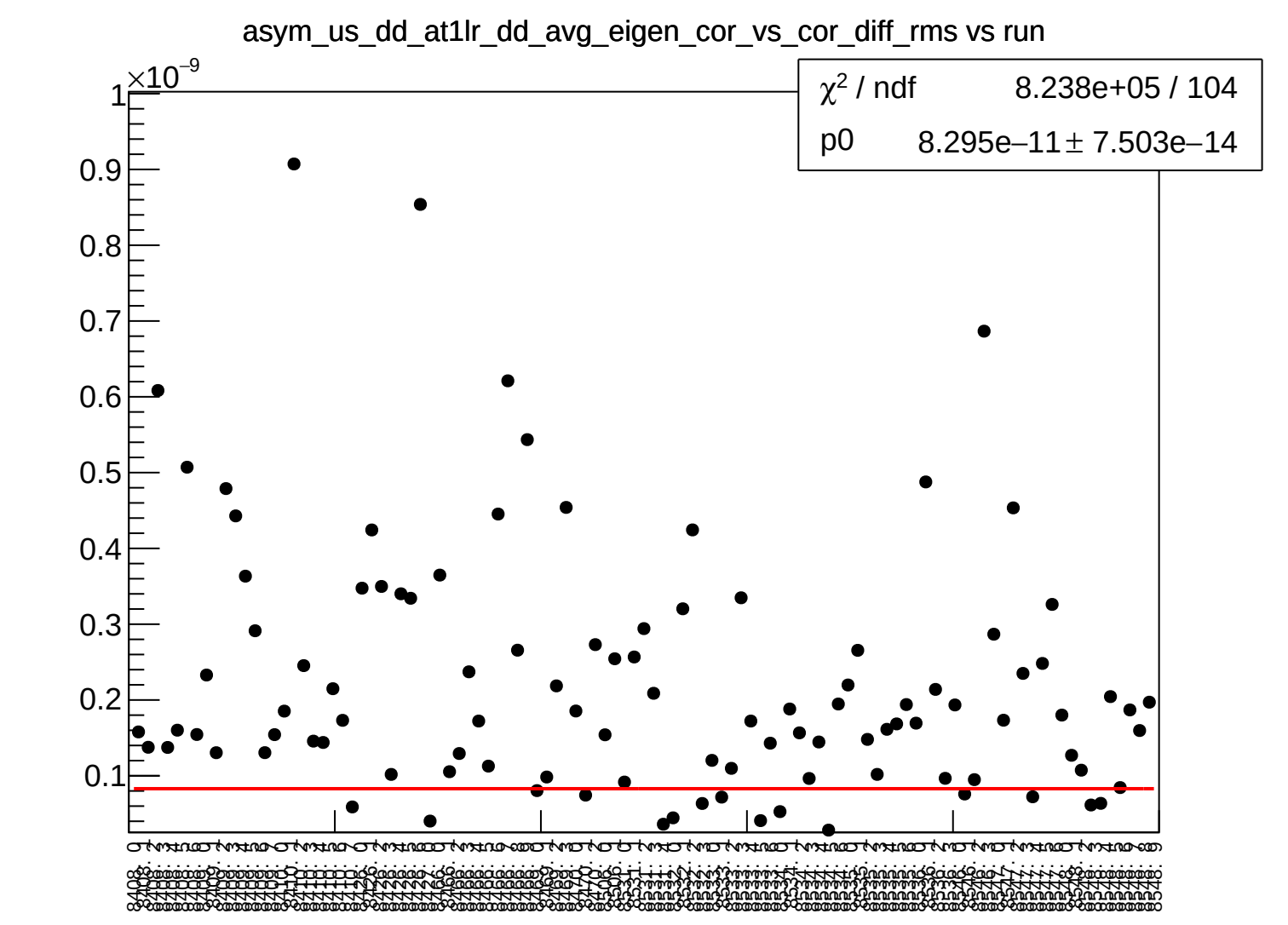

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 80.83 / 104
p0 −0.08652 ± 0.0507
pull
Entries 105
Mean 64.04
Std Dev 0

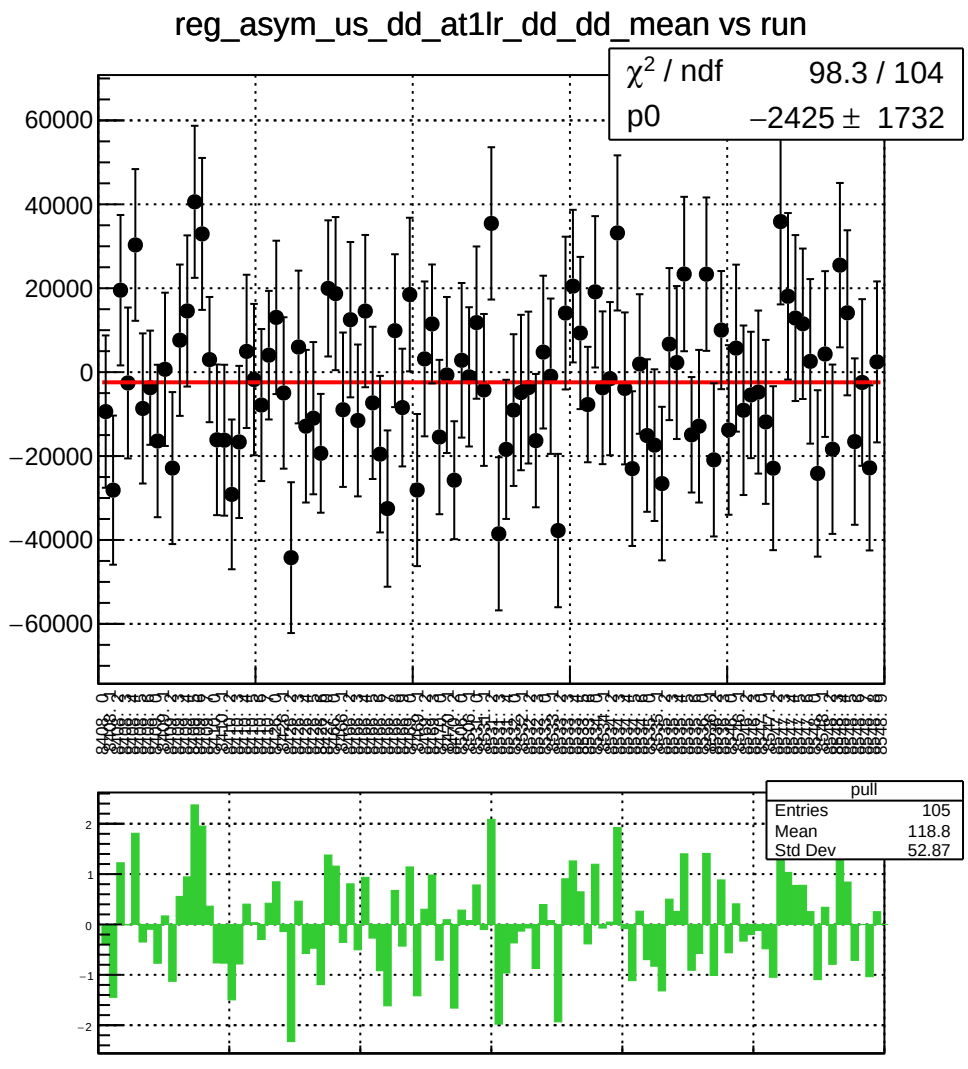

pull1D
Entries 105
Mean 0.04406
Std Dev 0.8763

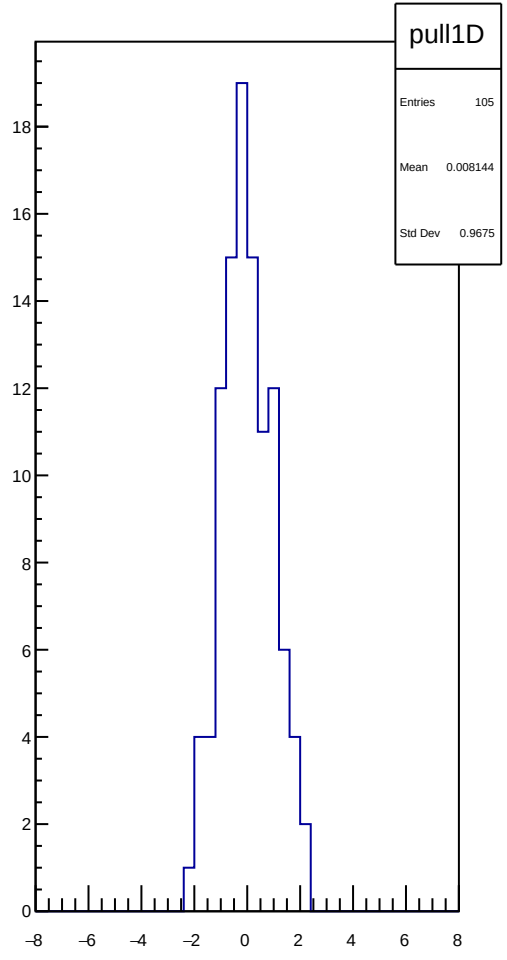

asym_us_dd_at1lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.365e+05 / 104
p0 46.88 ± 0.03585
120
100
80
60
40
20

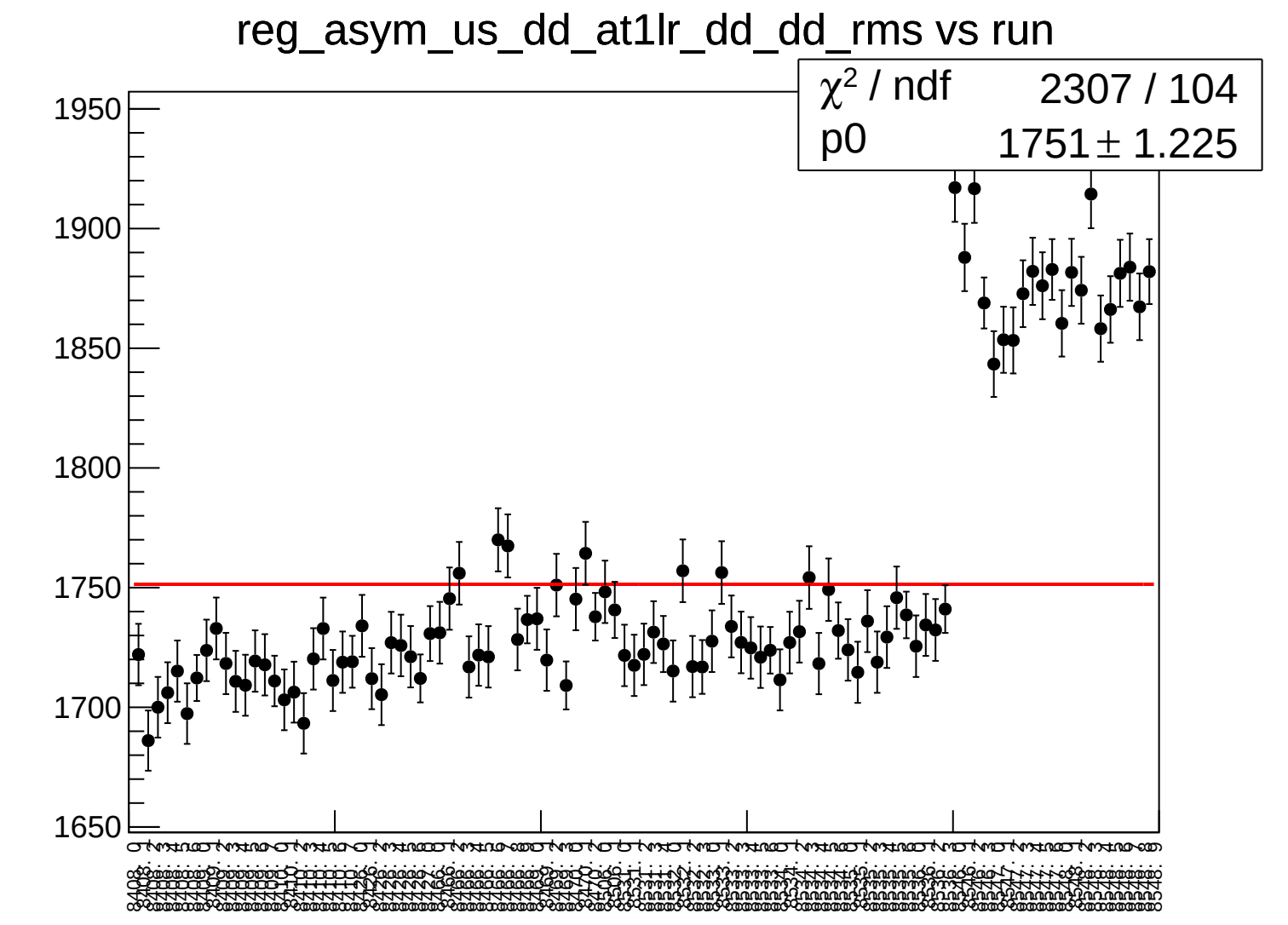

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 105.7 / 104
p0 −7.279e−14 ± 1.061e−13
pull
Entries 105
Mean 1.814
Std Dev 274.5

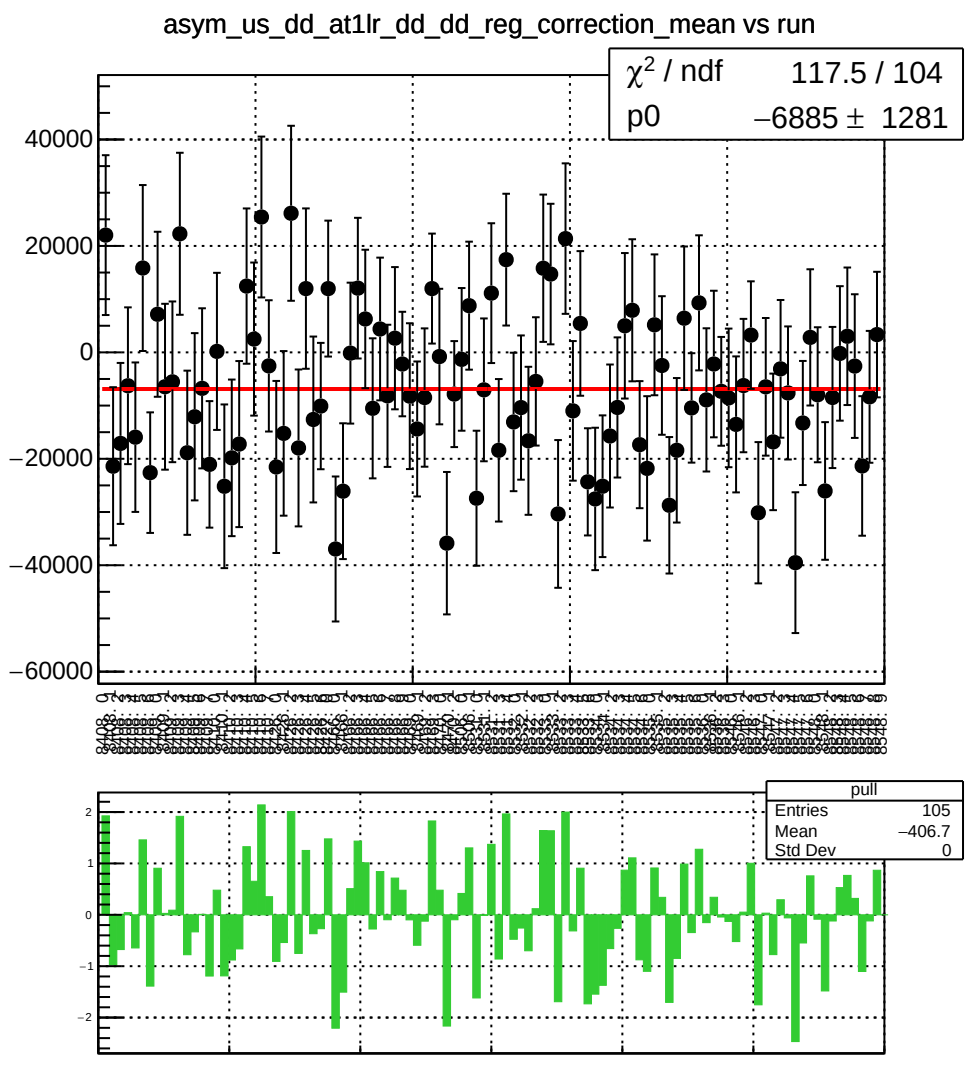

pull1D
Entries 105
Mean 0.001017
Std Dev 1.003

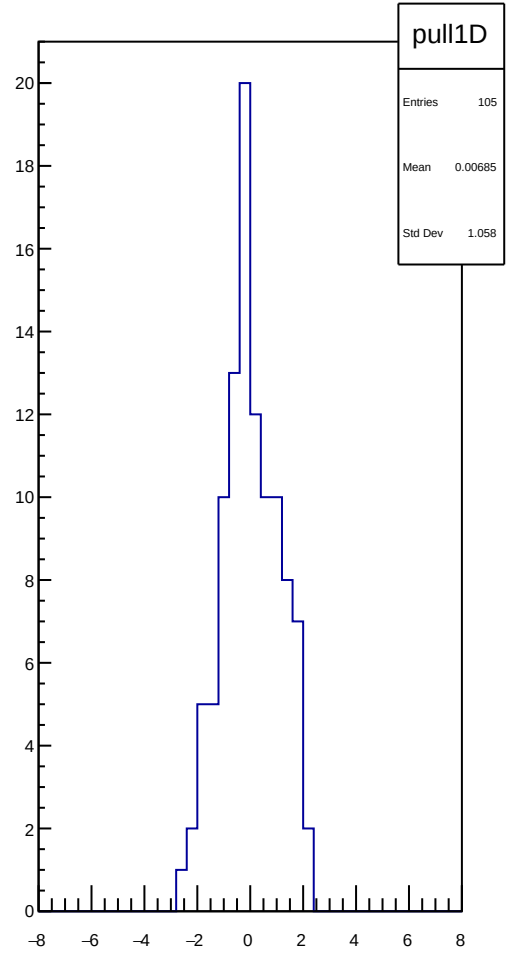

asym_us_dd_at1lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
χ² / ndf 8.238e+05 / 104
p0 8.295e−11 ± 7.503e−14

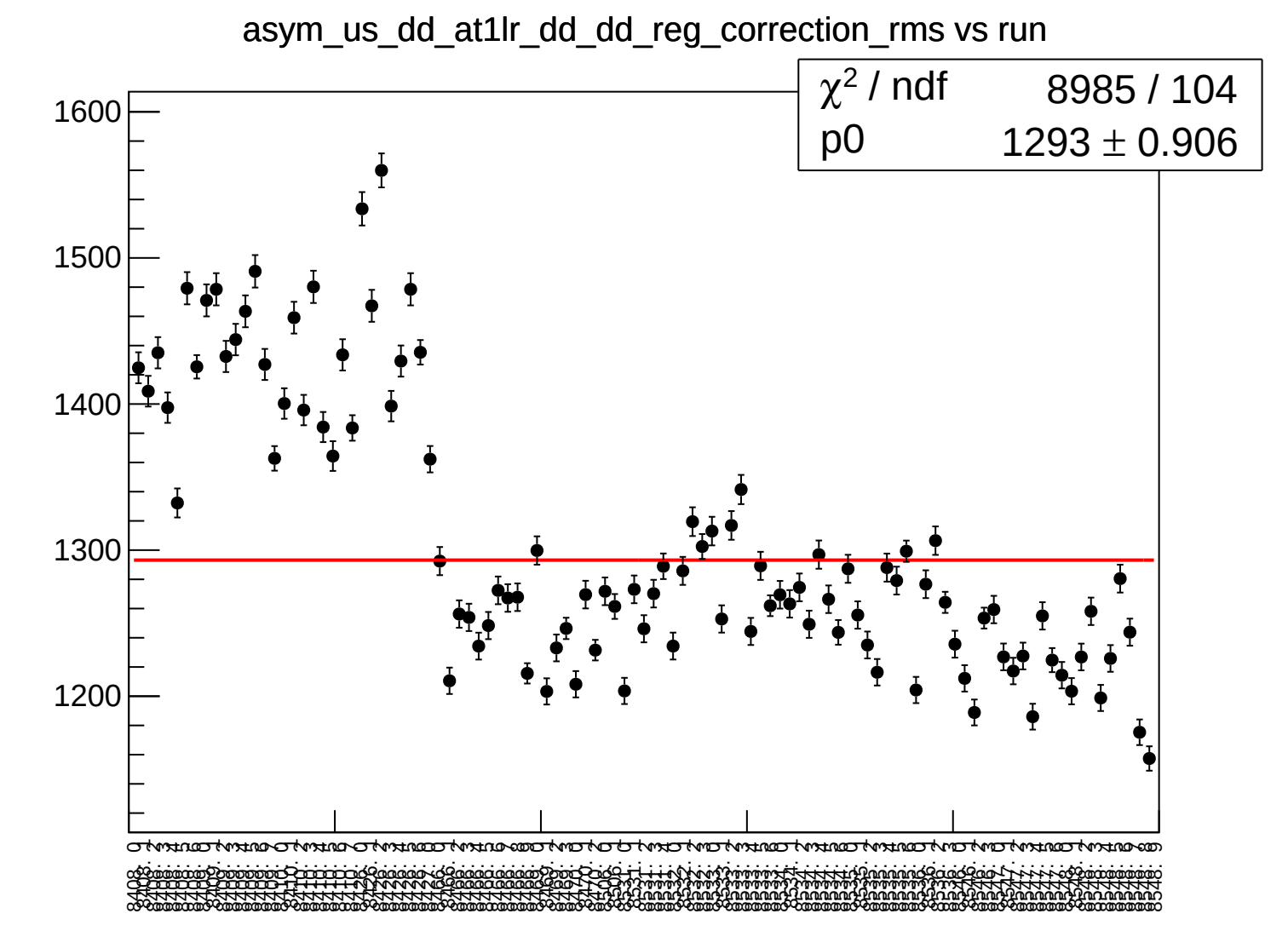

reg_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 98.3 / 104
p0 −2425 ± 1732
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean 118.8
Std Dev 52.87
2
1
0
−1
−2

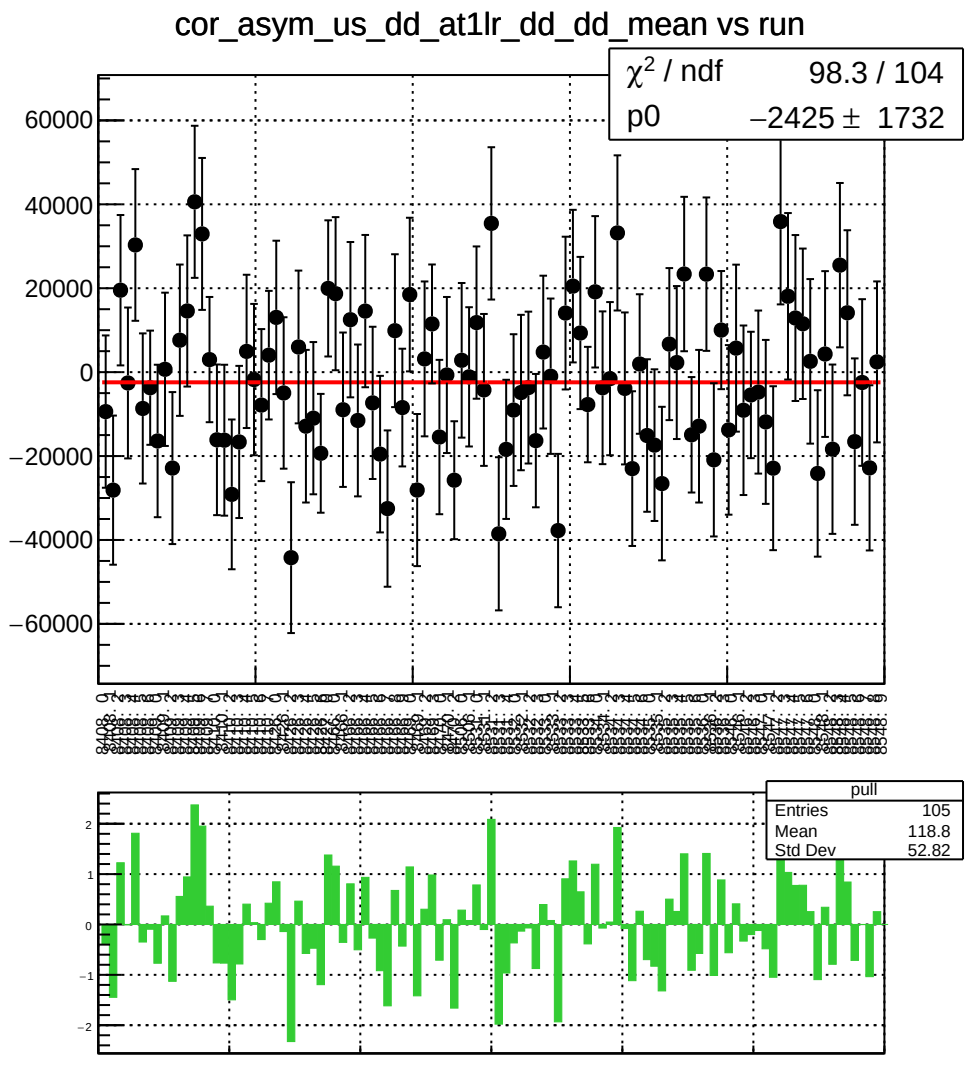

pull1D
Entries 105
Mean 0.008144
Std Dev 0.9675
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

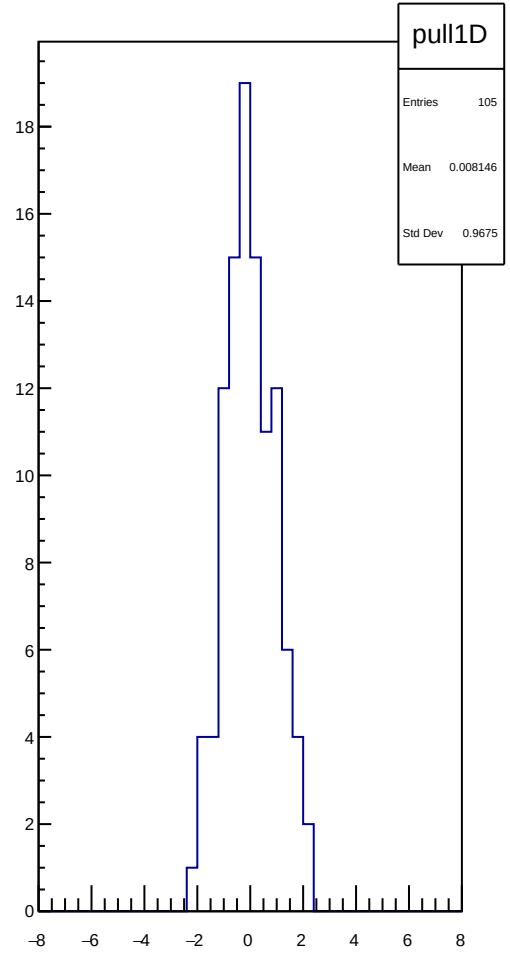

reg_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 2307 / 104
p0 1751 ± 1.225
1950
1900
1850
1800
1750
1700
1650

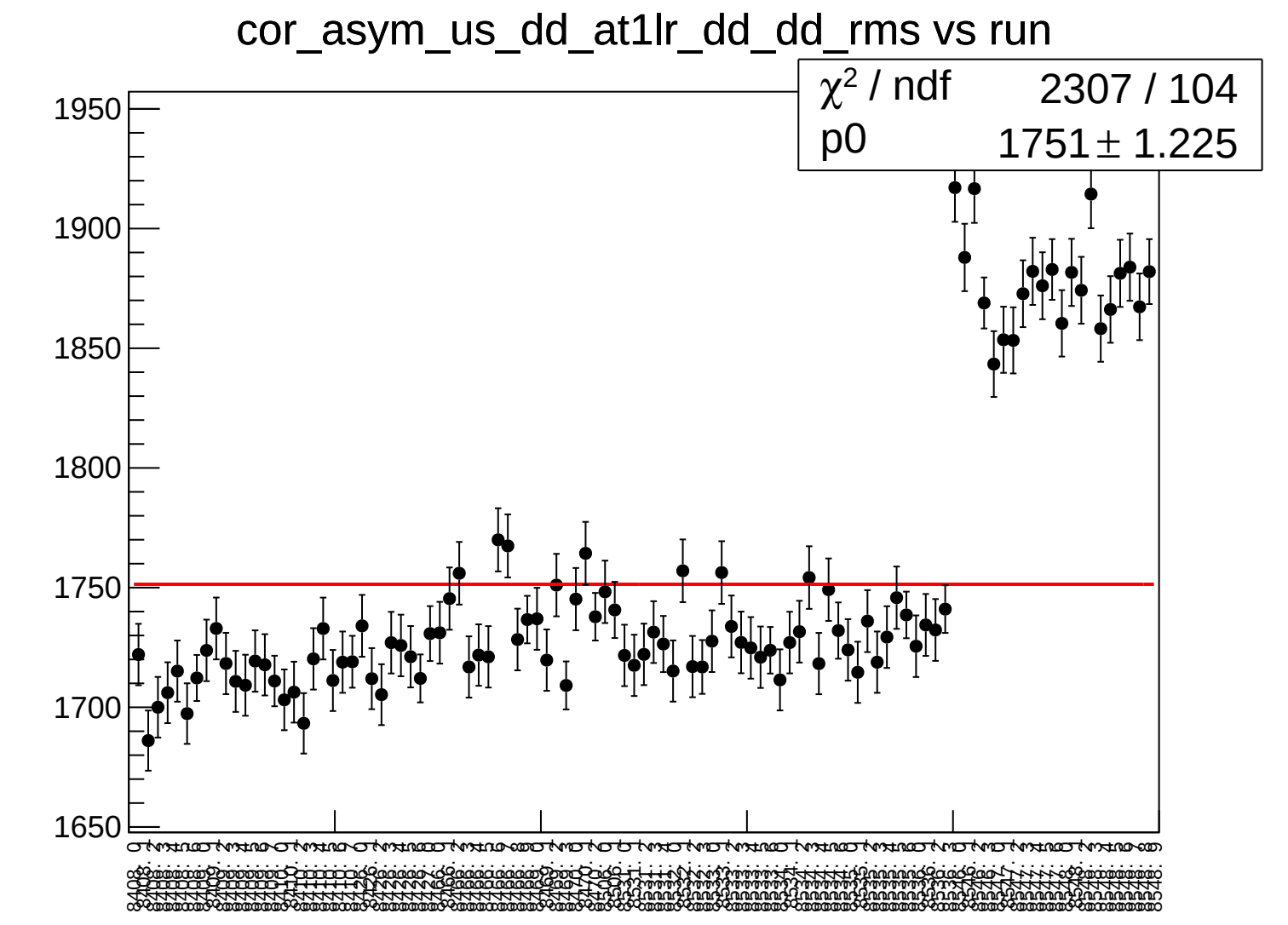

asym_us_dd_at1lr_dd_dd_reg_correction_mean vs run
χ² / ndf 117.5 / 104
p0 −6885 ± 1281
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean −406.7
Std Dev 0
2
1
0
−1
−2

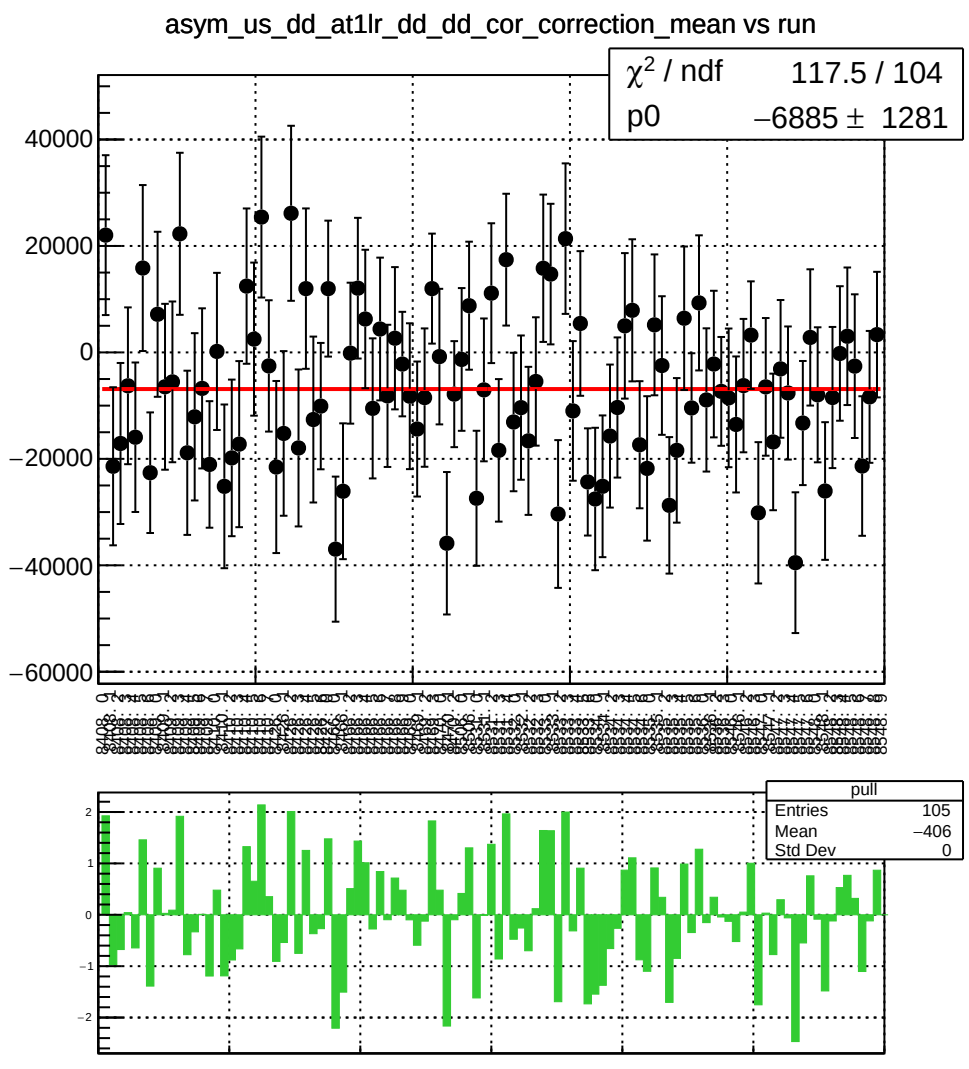

pull1D
Entries 105
Mean 0.00685
Std Dev 1.058
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

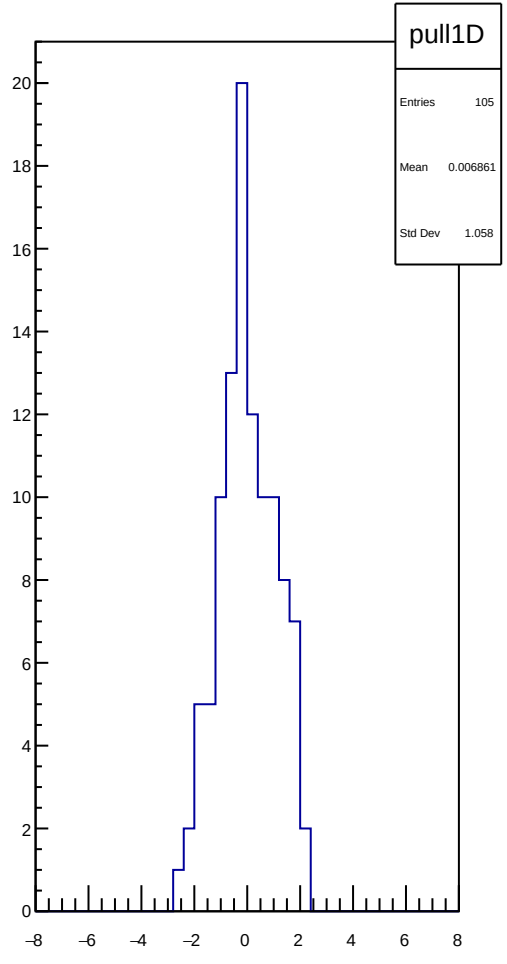

asym_us_dd_at1lr_dd_dd_reg_correction_rms vs run
χ² / ndf 8985 / 104
p0 1293 ± 0.906
1600
1500
1400
1300
1200

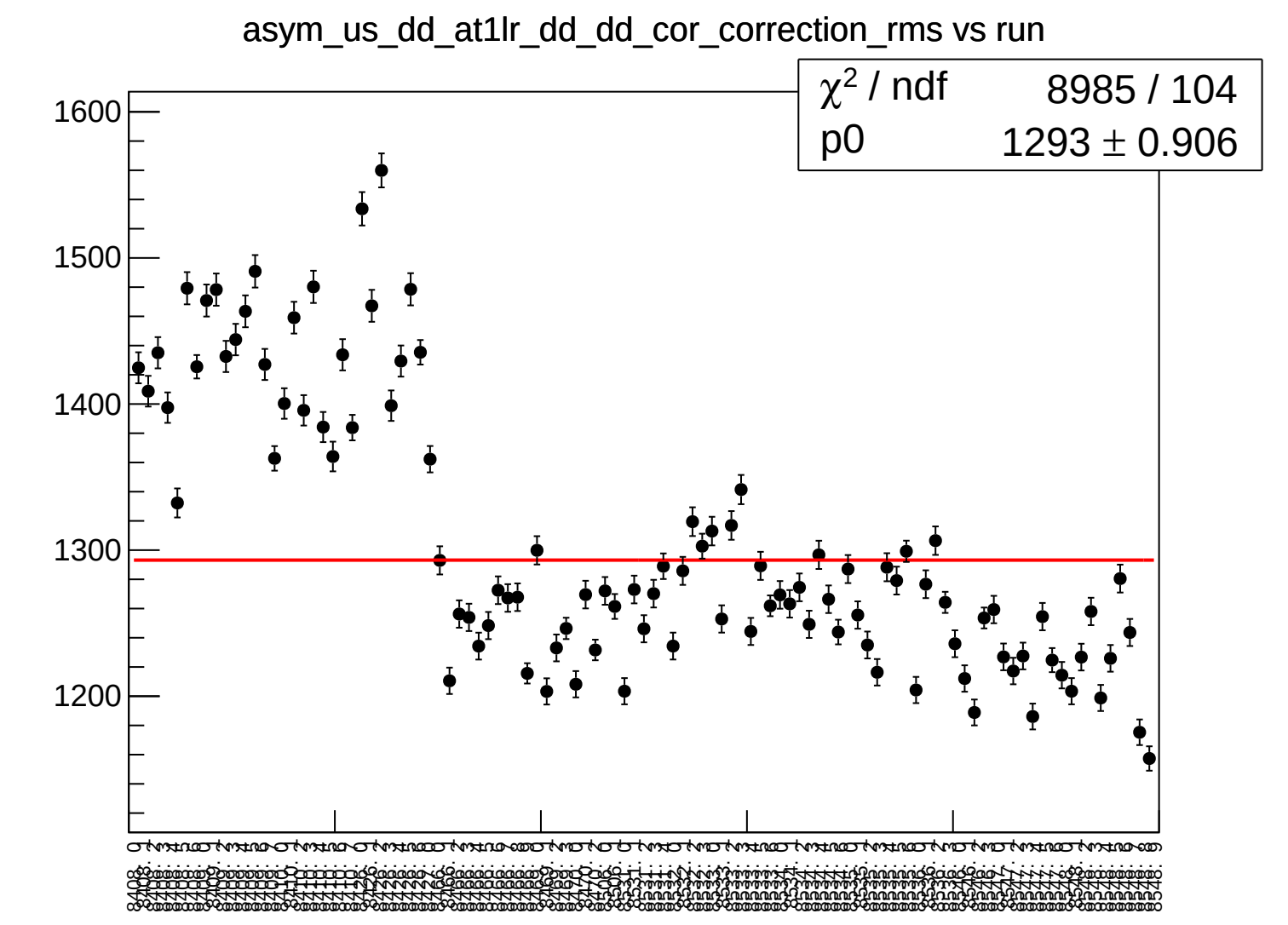

cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 98.3 / 104
p0 −2425 ± 1732
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean 118.8
Std Dev 52.82
2
1
0
−1
−2

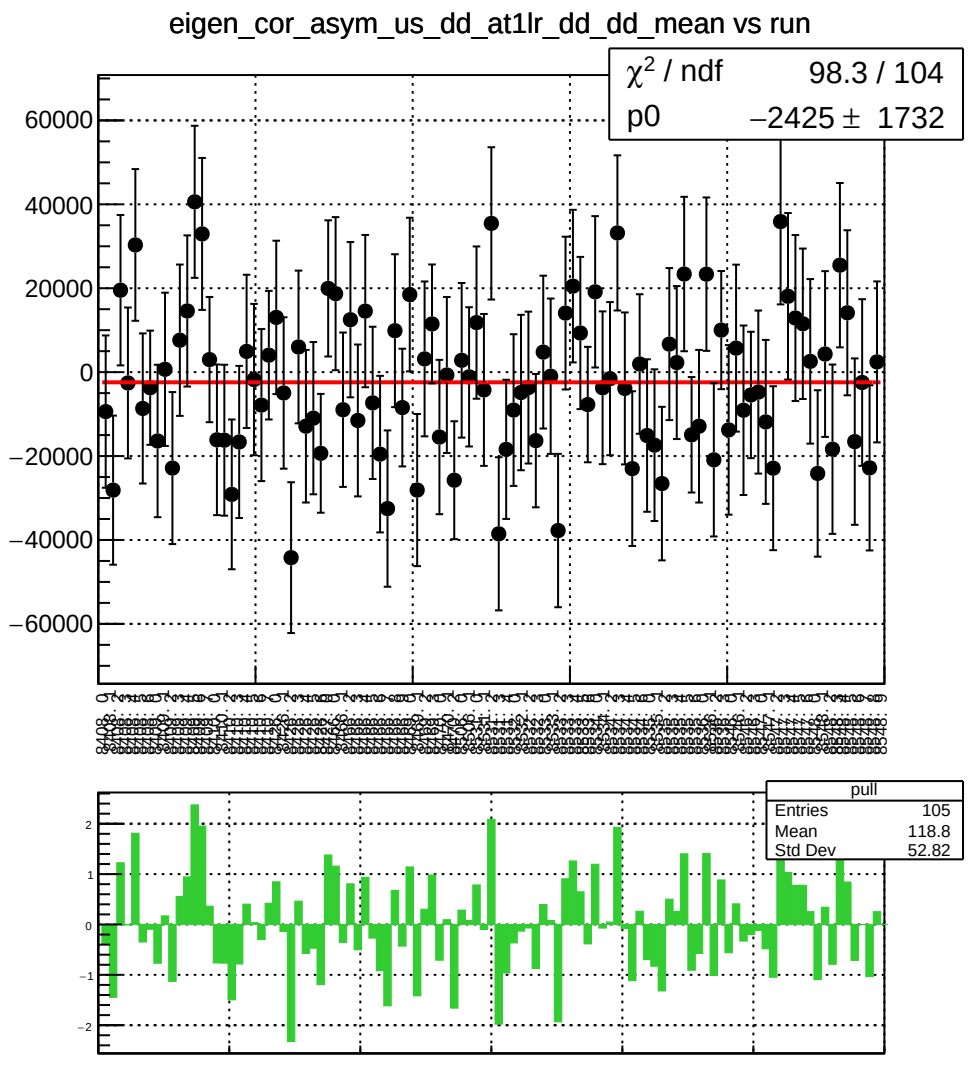

pull1D
Entries 105
Mean 0.008146
Std Dev 0.9675
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

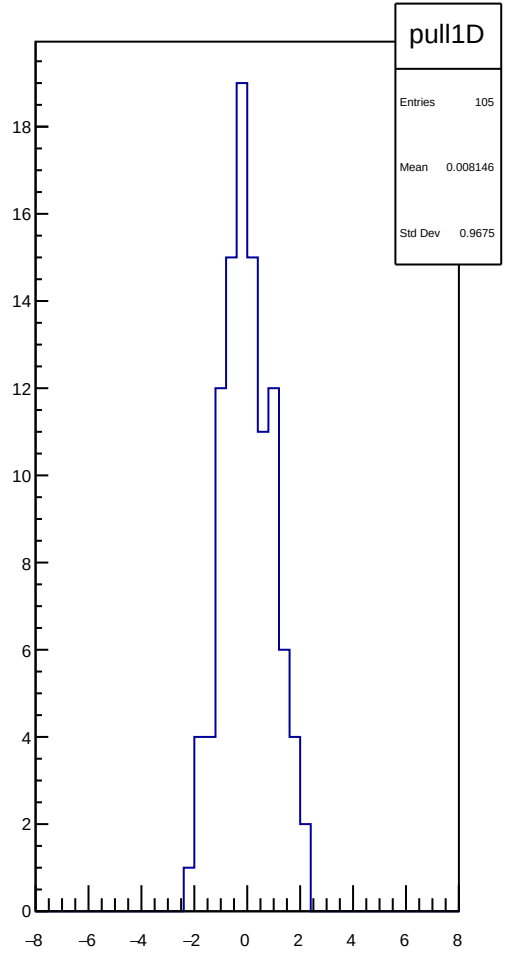

cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 2307 / 104
p0 1751 ± 1.225
1950
1900
1850
1800
1750
1700
1650

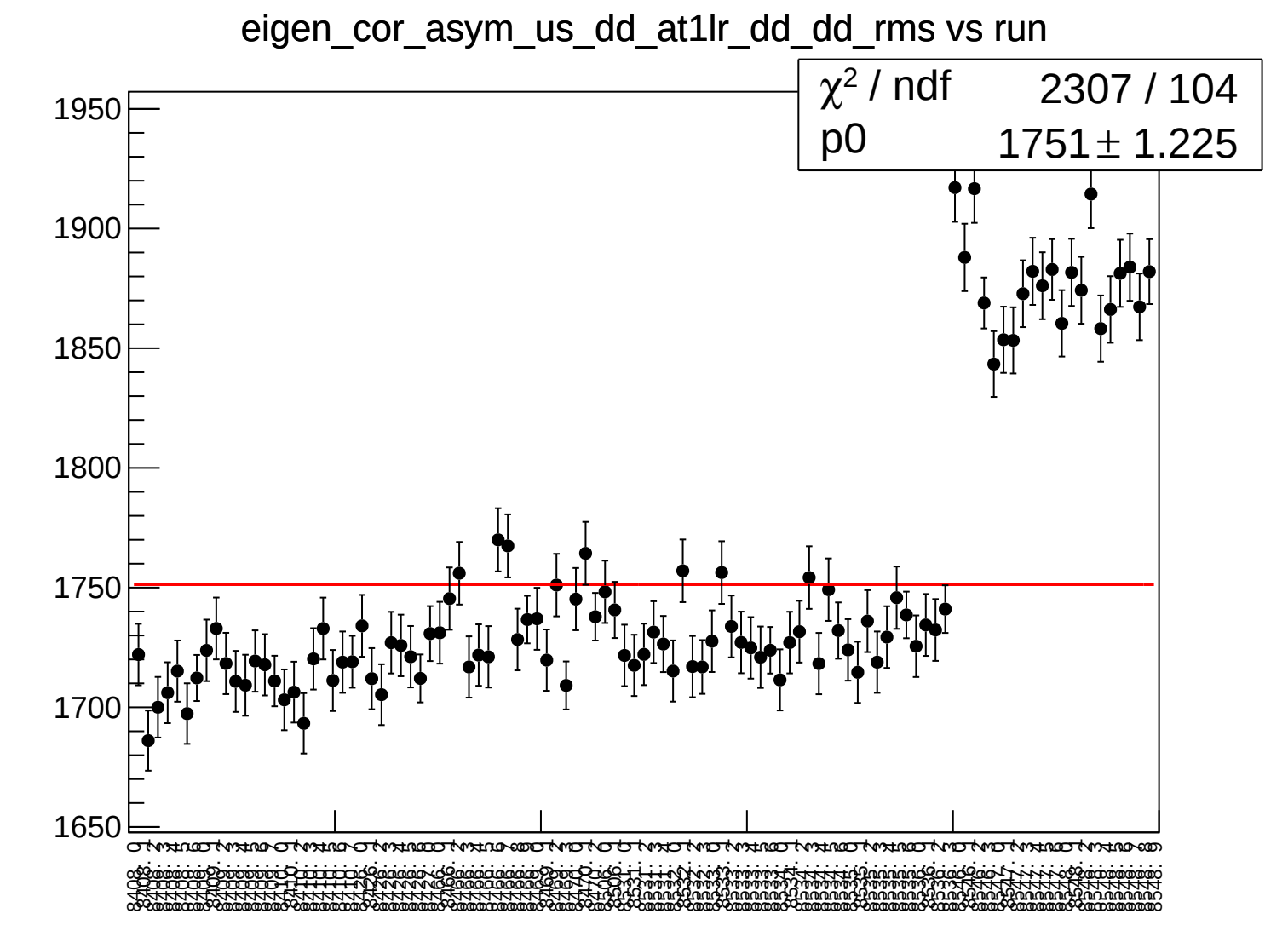

asym_us_dd_at1lr_dd_dd_cor_correction_mean vs run
χ² / ndf 117.5 / 104
p0 −6885 ± 1281
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean −406
Std Dev 0
2
1
0
−1
−2

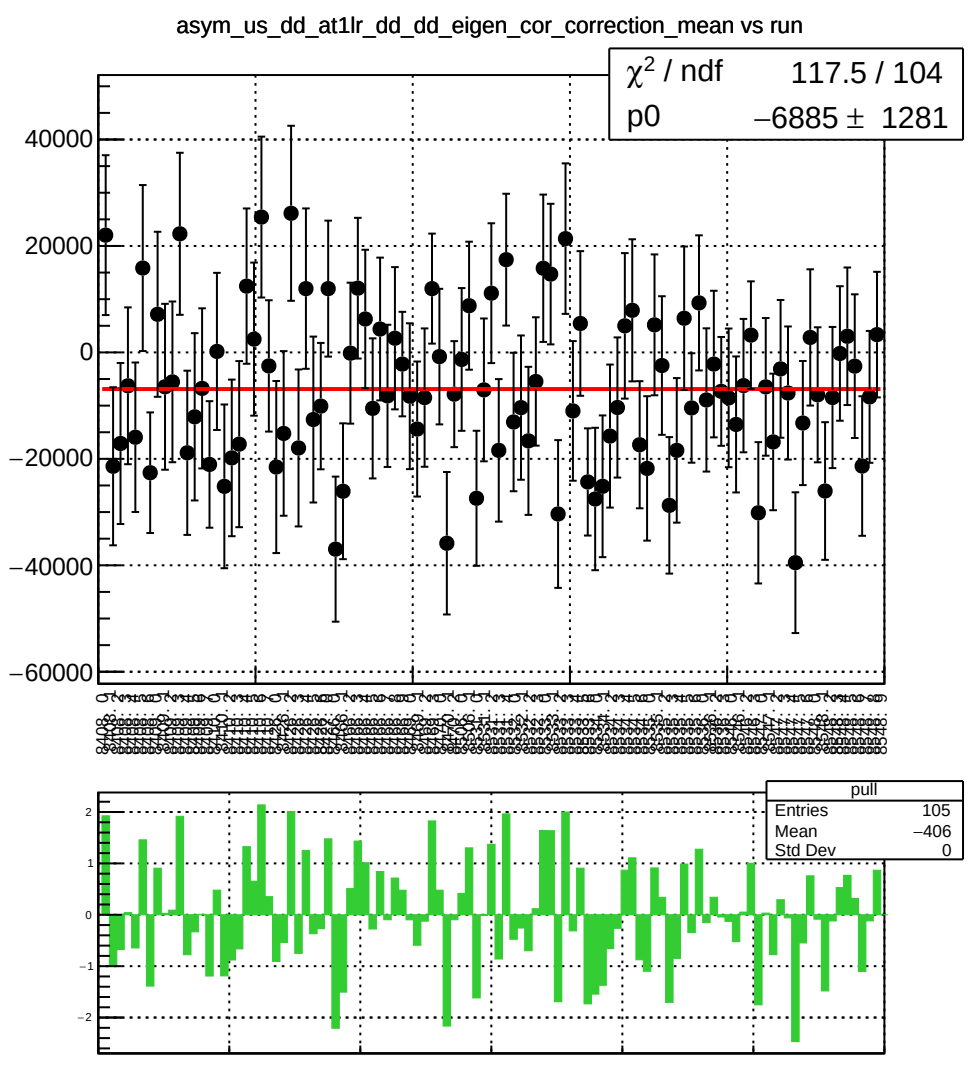

pull1D
Entries 105
Mean 0.006861
Std Dev 1.058
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

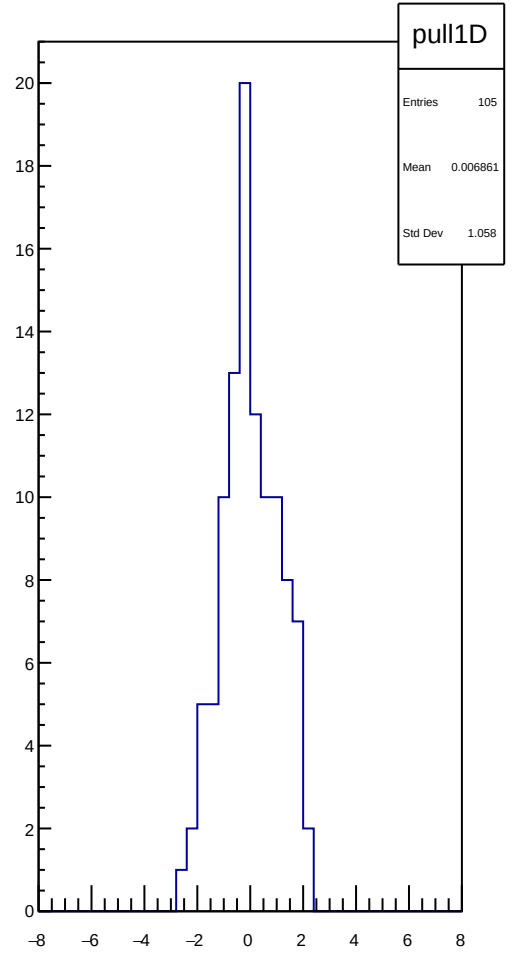

asym_us_dd_at1lr_dd_dd_cor_correction_rms vs run
χ² / ndf 8985 / 104
p0 1293 ± 0.906
1600
1500
1400
1300
1200

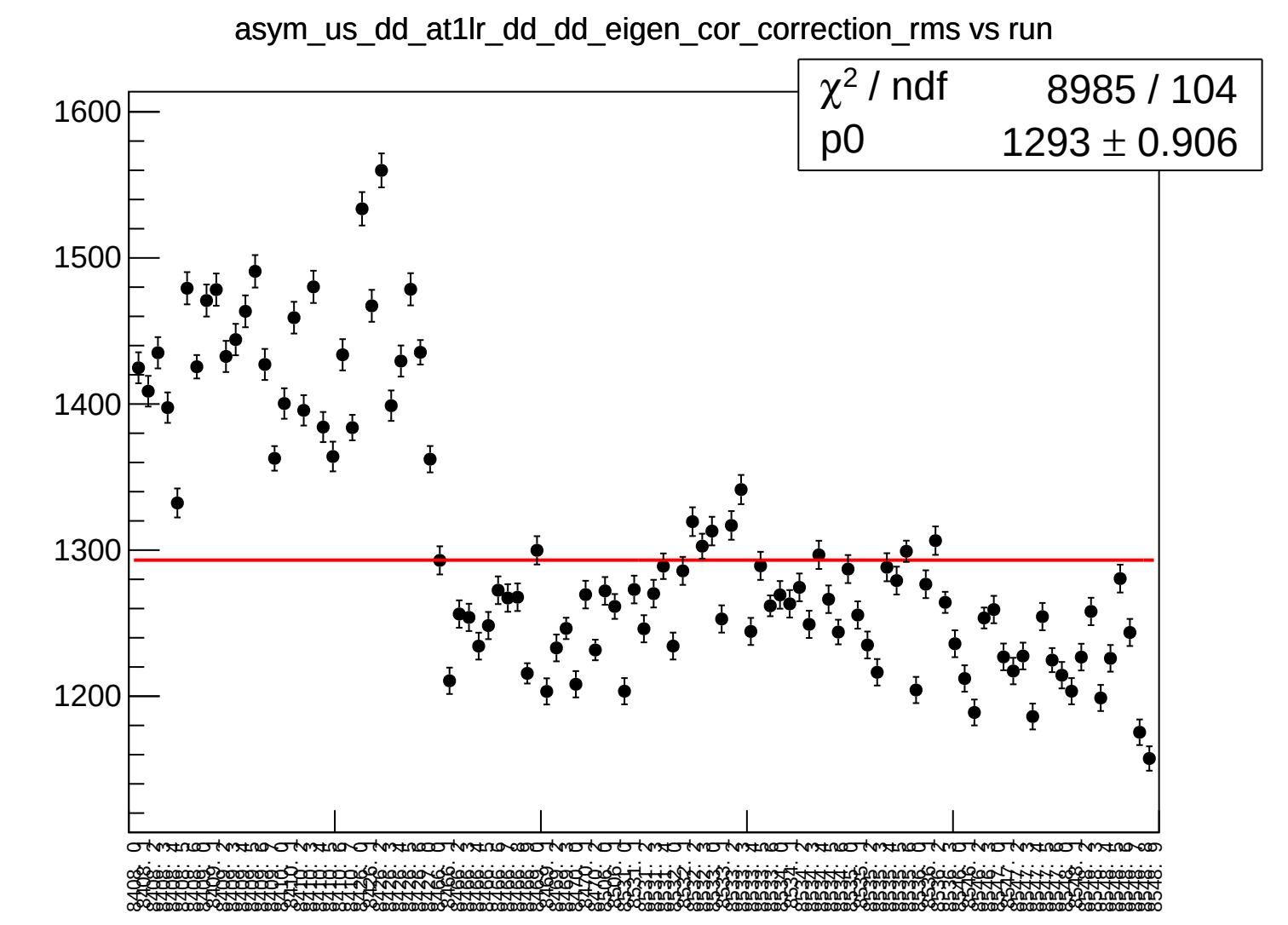

eigen_cor_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 98.3 / 104
p0 −2425 ± 1732
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean 118.8
Std Dev 52.82
2
1
0
−1
−2

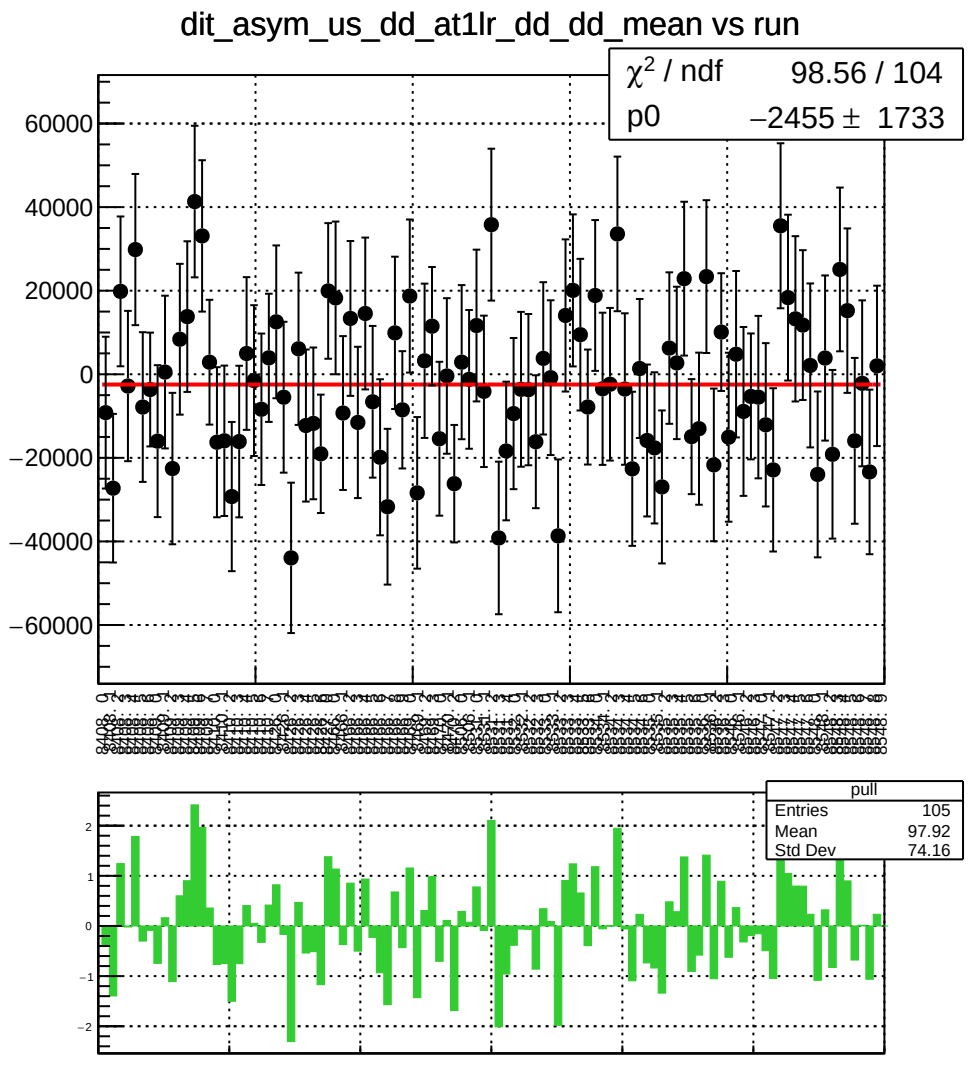

pull1D
Entries 105
Mean 0.008146
Std Dev 0.9675
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

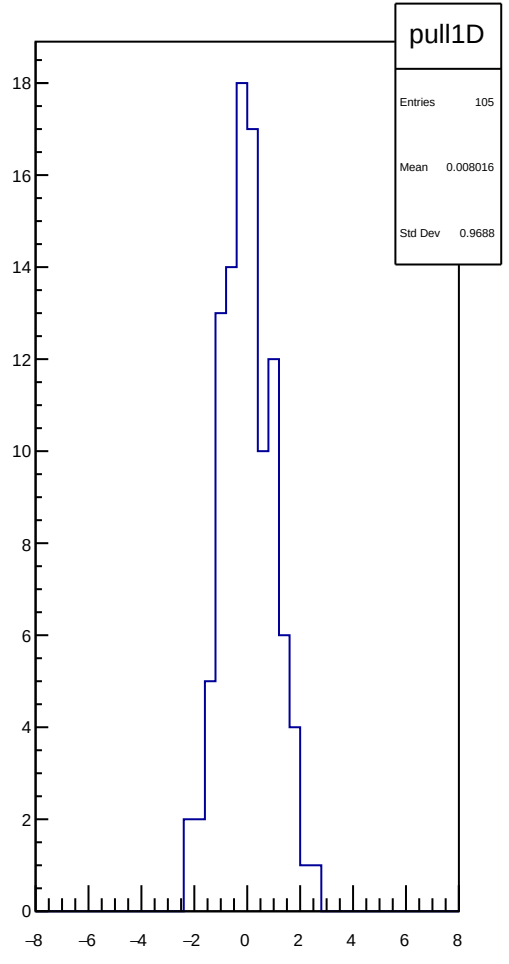

eigen_cor_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 2307 / 104
p0 1751 ± 1.225
1950
1900
1850
1800
1750
1700
1650

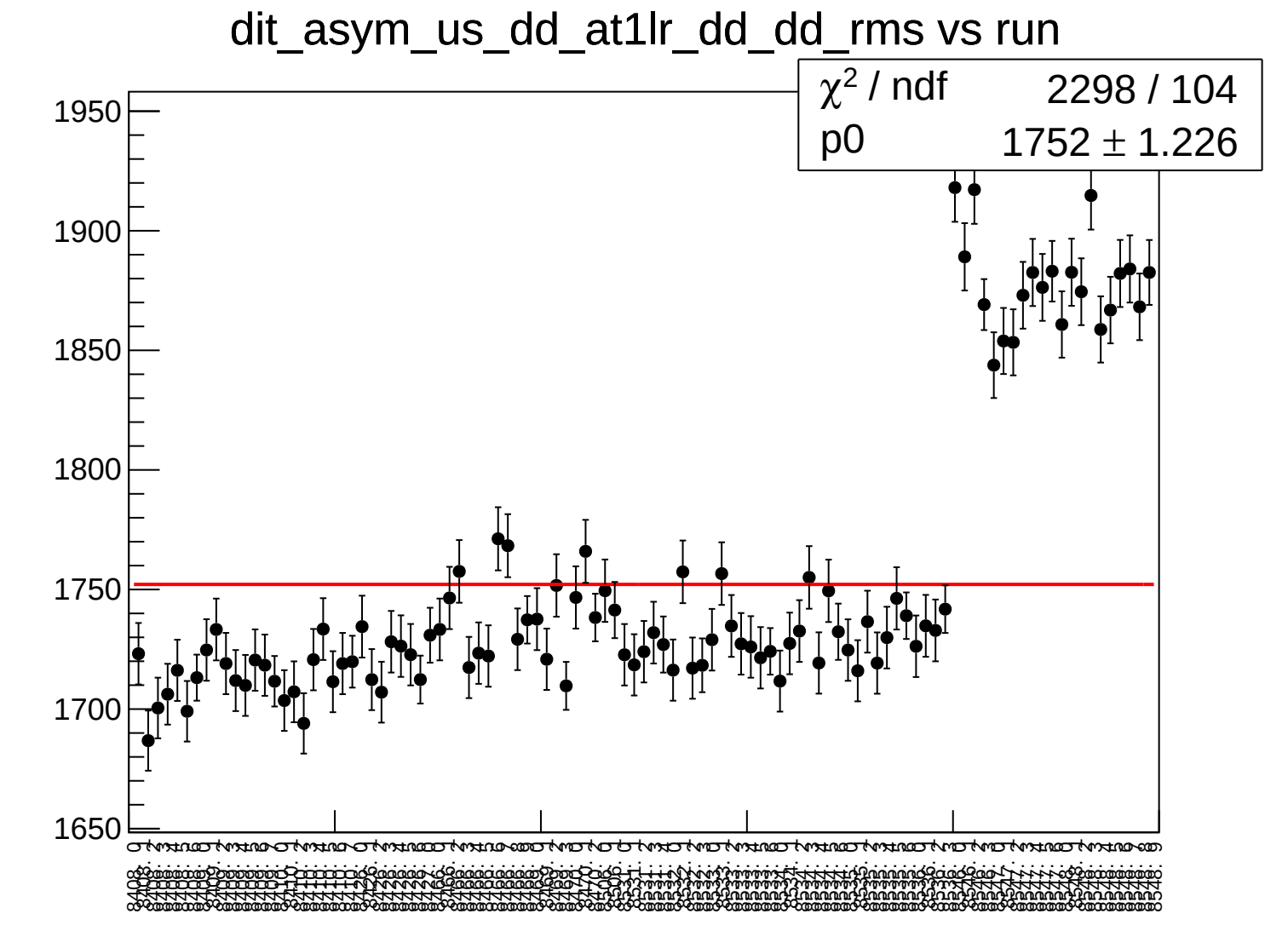

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 117.5 / 104
p0 −6885 ± 1281
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean −406
Std Dev 0
2
1
0
−1
−2

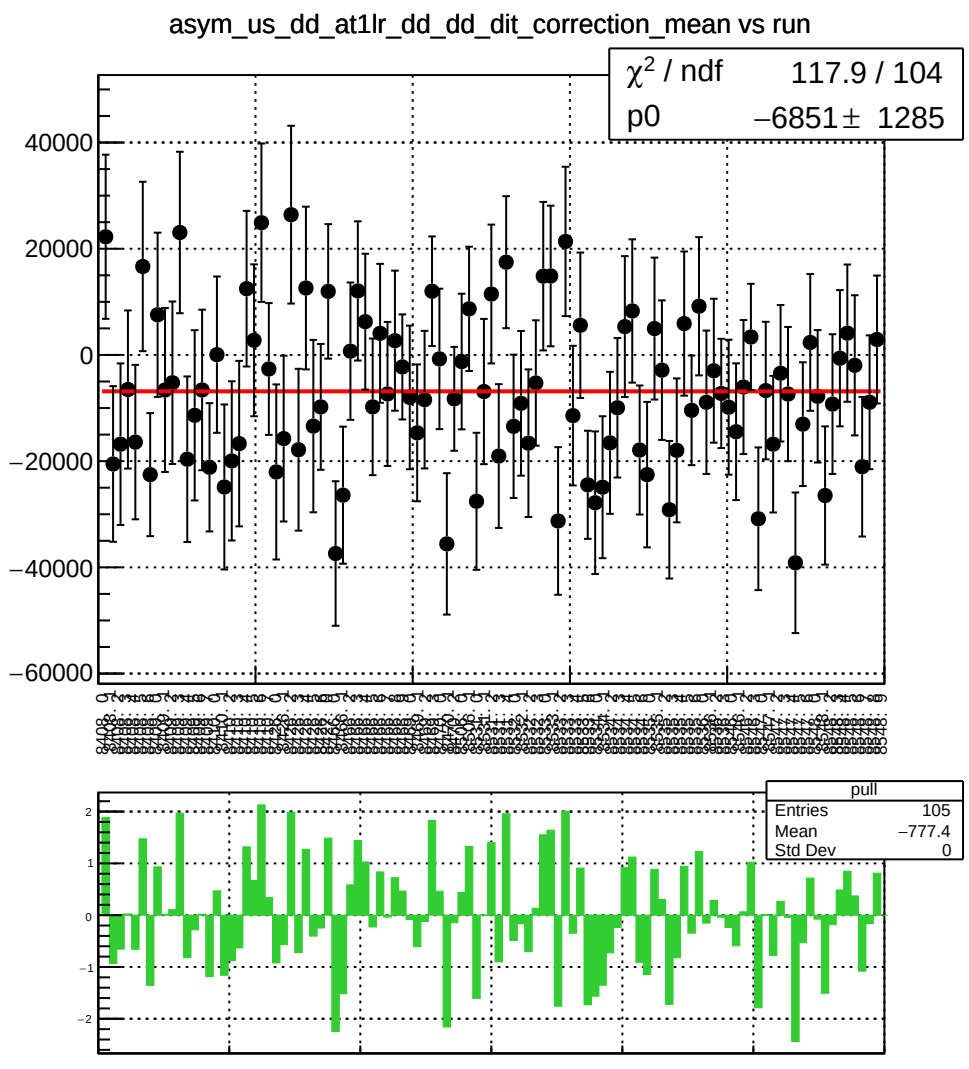

pull1D
Entries 105
Mean 0.006861
Std Dev 1.058
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

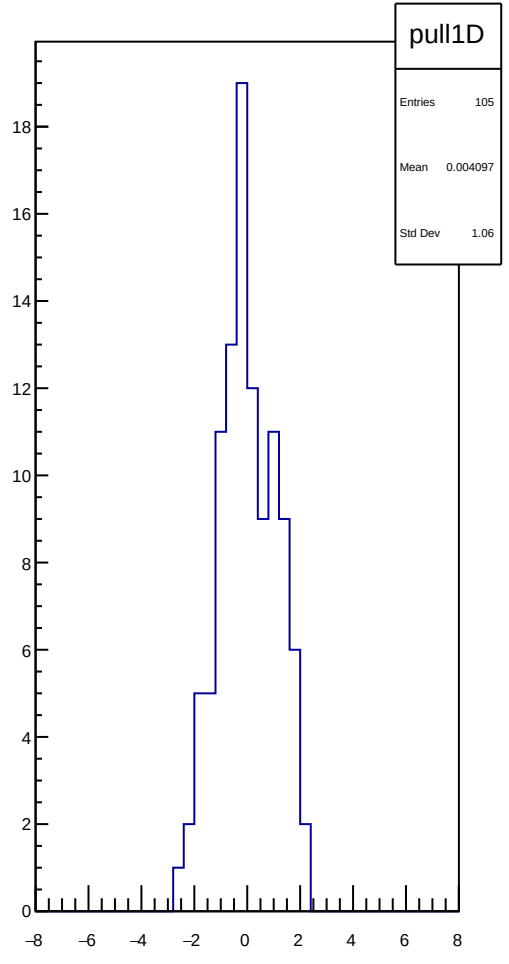

asym_us_dd_at1lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 8985 / 104
p0 1293 ± 0.906
1600
1500
1400
1300
1200

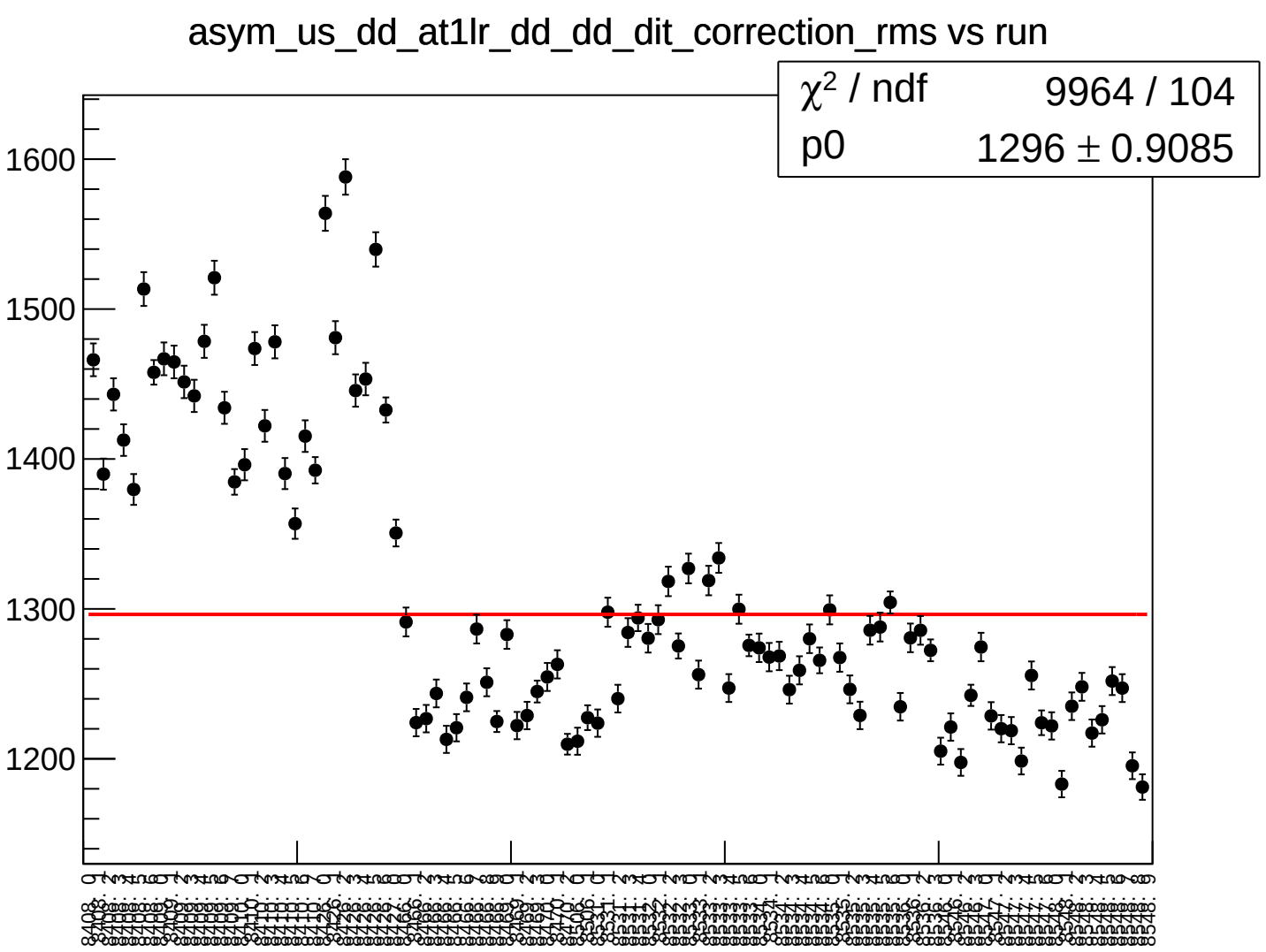

dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 98.56 / 104
p0 −2455 ± 1733
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean 97.92
Std Dev 74.16
2
1
0
−1
−2

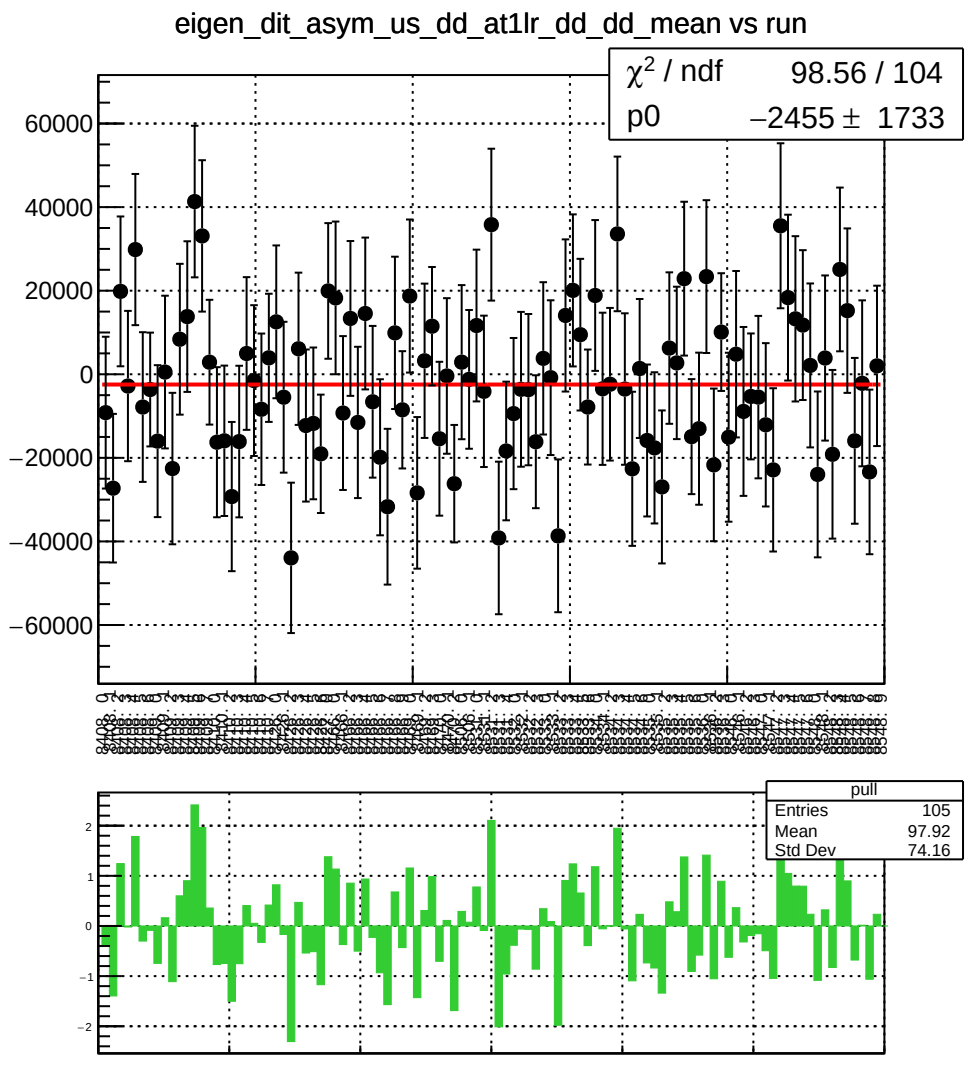

pull1D
Entries 105
Mean 0.008016
Std Dev 0.9688
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

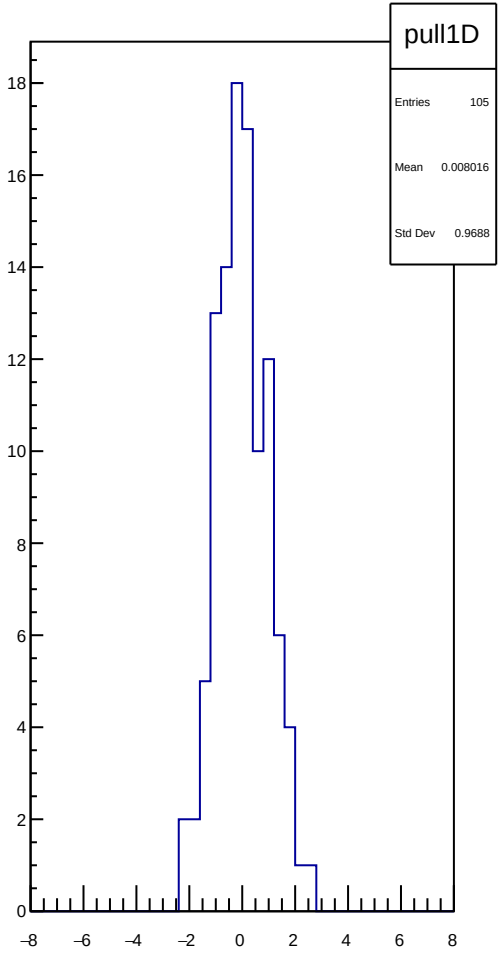

dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 2298 / 104
p0 1752 ± 1.226
1950
1900
1850
1800
1750
1700
1650

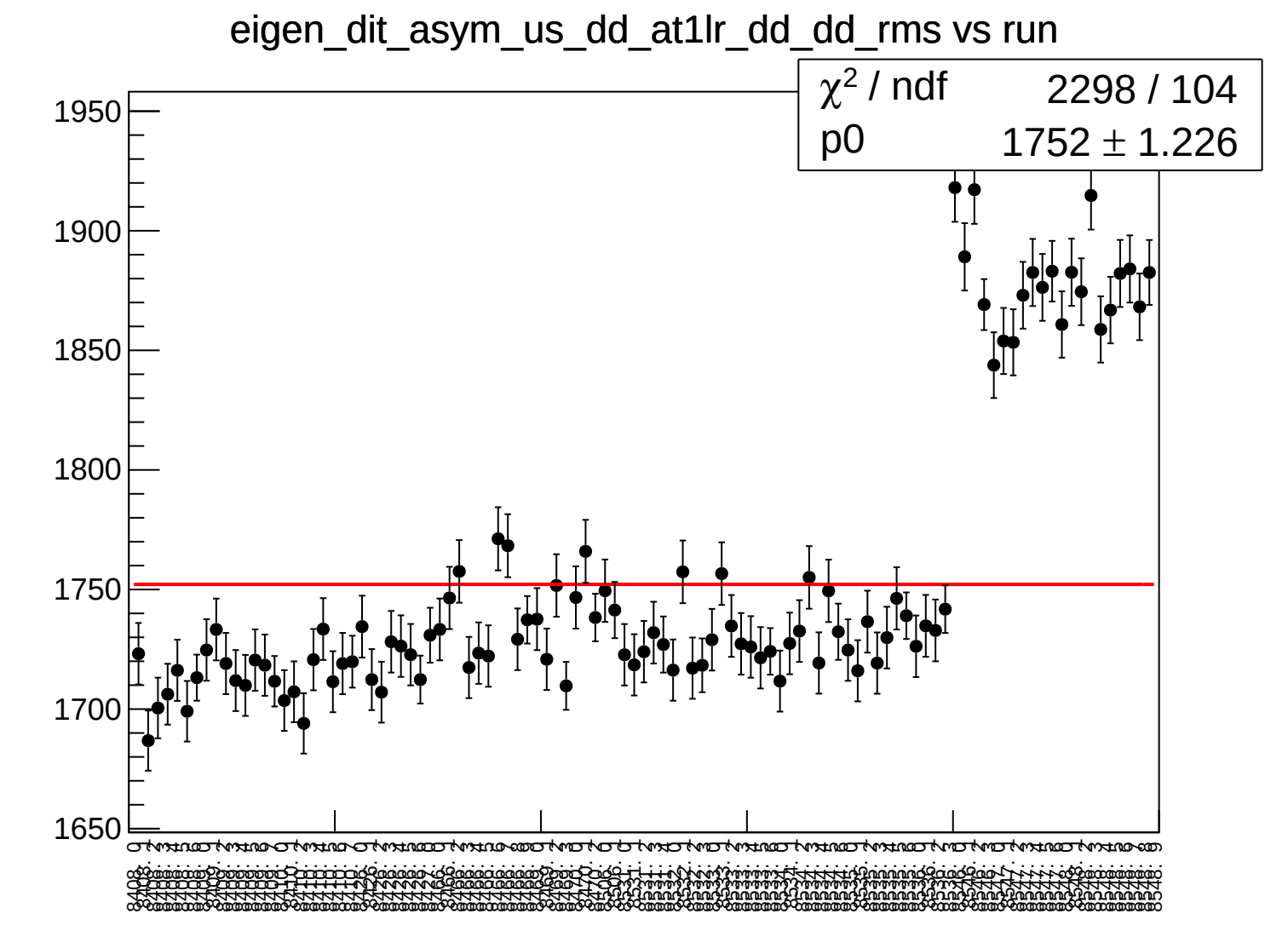

asym_us_dd_at1lr_dd_dd_dit_correction_mean vs run
χ² / ndf 117.9 / 104
p0 −6851 ± 1285
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean −777.4
Std Dev 0
2
1
0
−1
−2

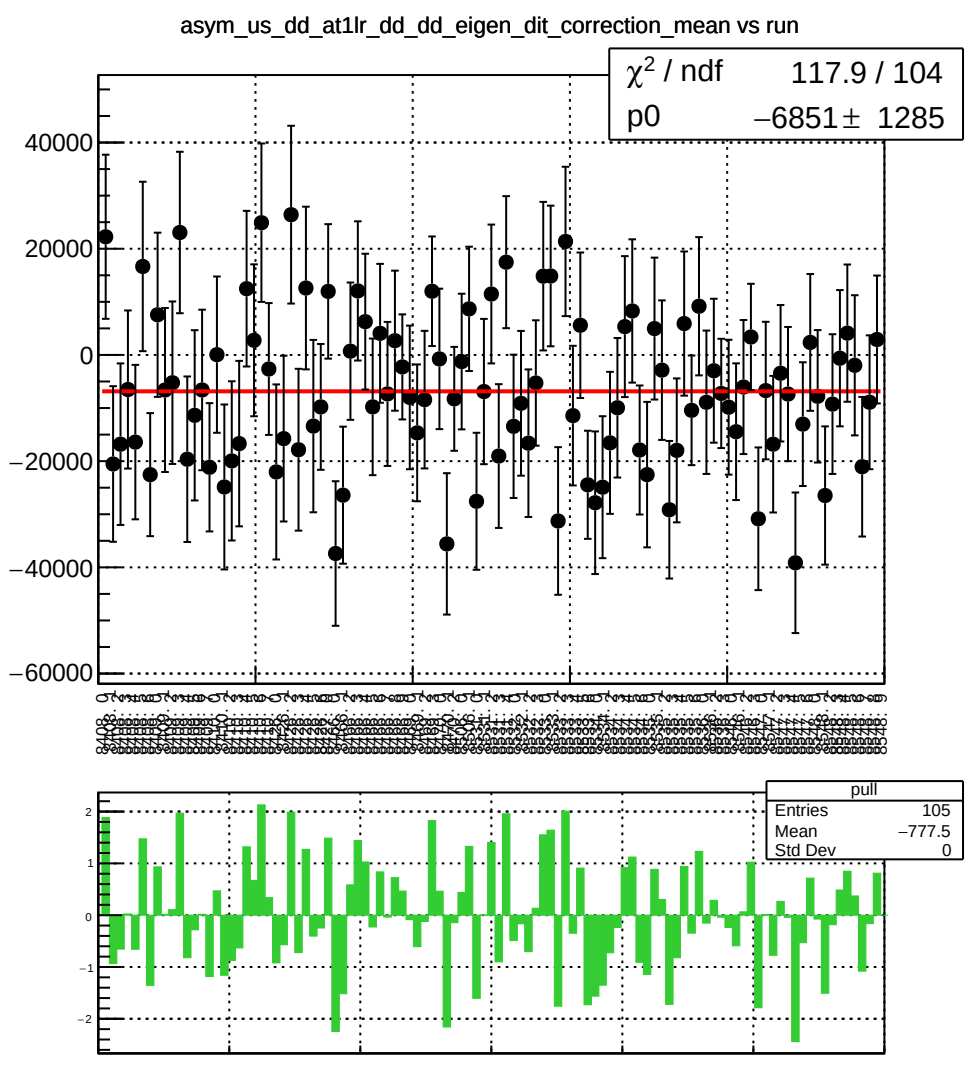

pull1D
Entries 105
Mean 0.004097
Std Dev 1.06
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

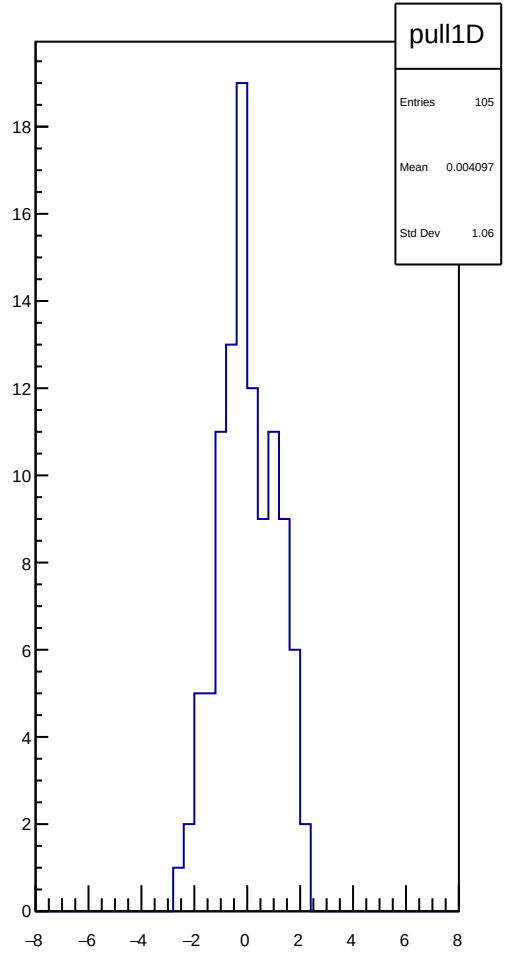

asym_us_dd_at1lr_dd_dd_dit_correction_rms vs run
χ² / ndf 9964 / 104
p0 1296 ± 0.9085
1600
1500
1400
1300
1200

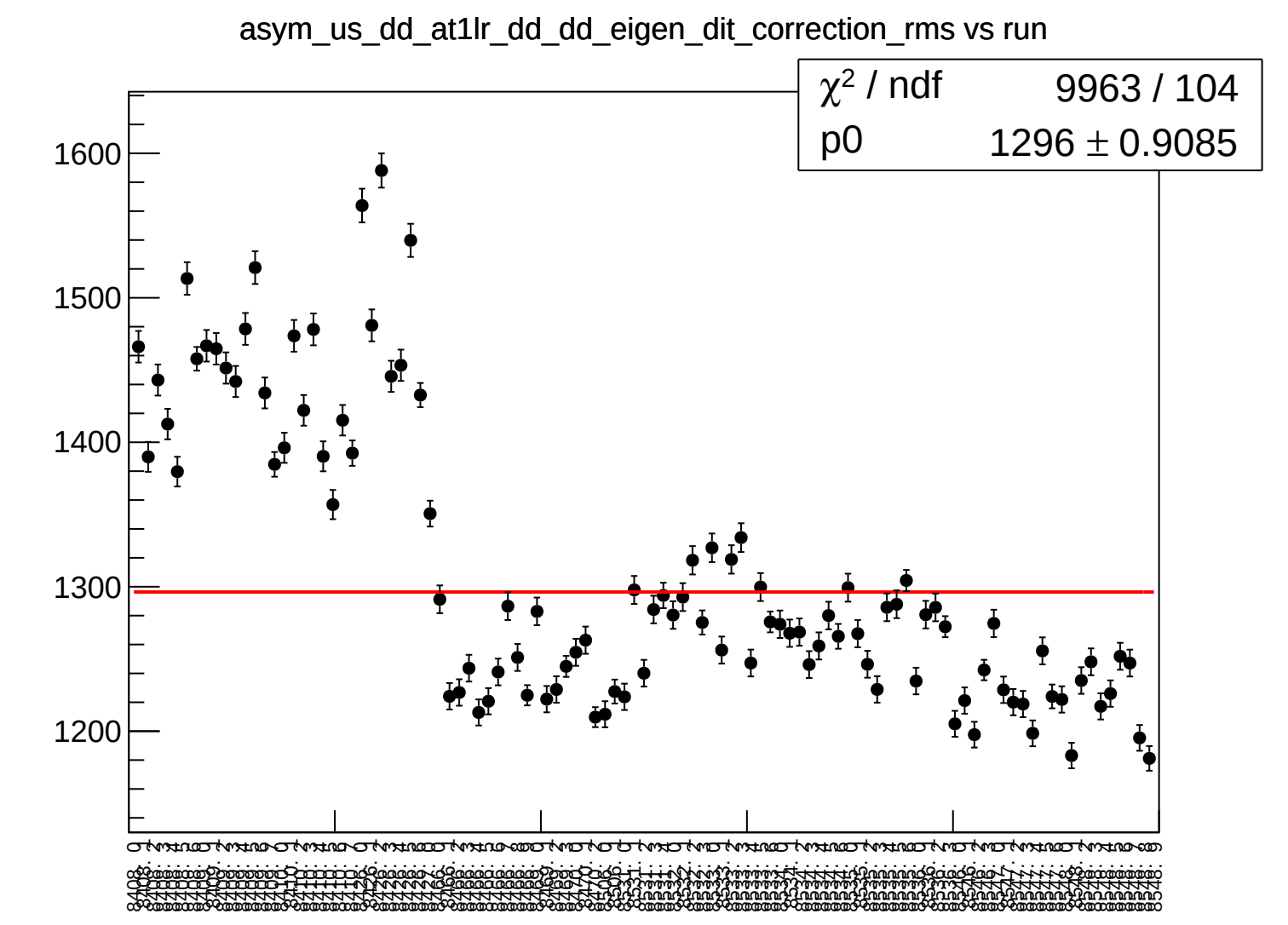

eigen_dit_asym_us_dd_at1lr_dd_dd_mean vs run
χ² / ndf 98.56 / 104
p0 −2455 ± 1733
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean 97.92
Std Dev 74.16
2
1
0
−1
−2

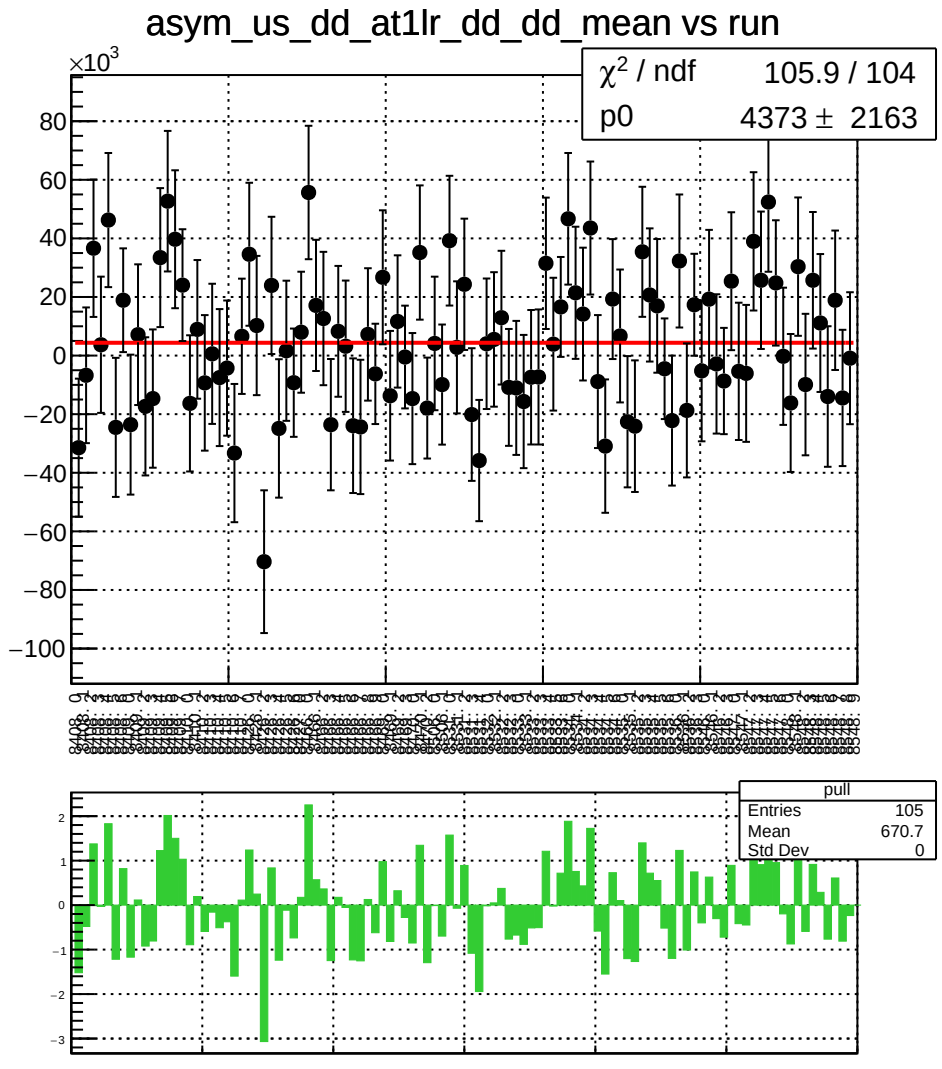

pull1D
Entries 105
Mean 0.008016
Std Dev 0.9688
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

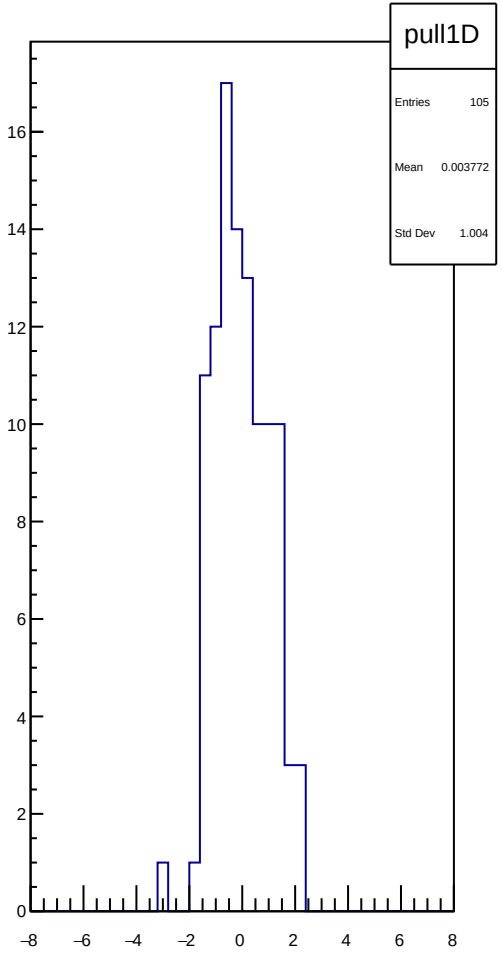

eigen_dit_asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 2298 / 104
p0 1752 ± 1.226
1950
1900
1850
1800
1750
1700
1650

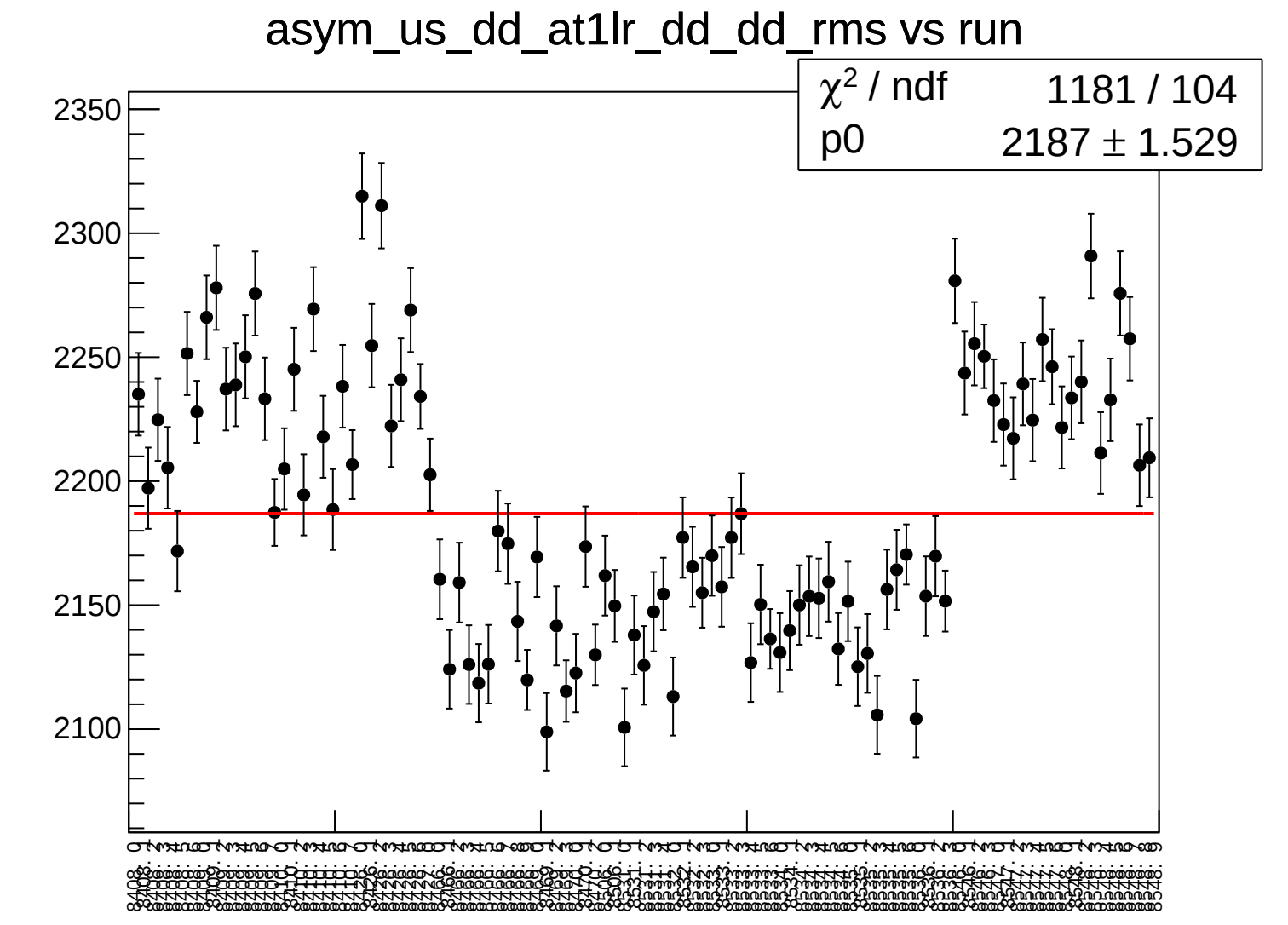

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 117.9 / 104
p0 −6851 ± 1285
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean −777.5
Std Dev 0
2
1
0
−1
−2

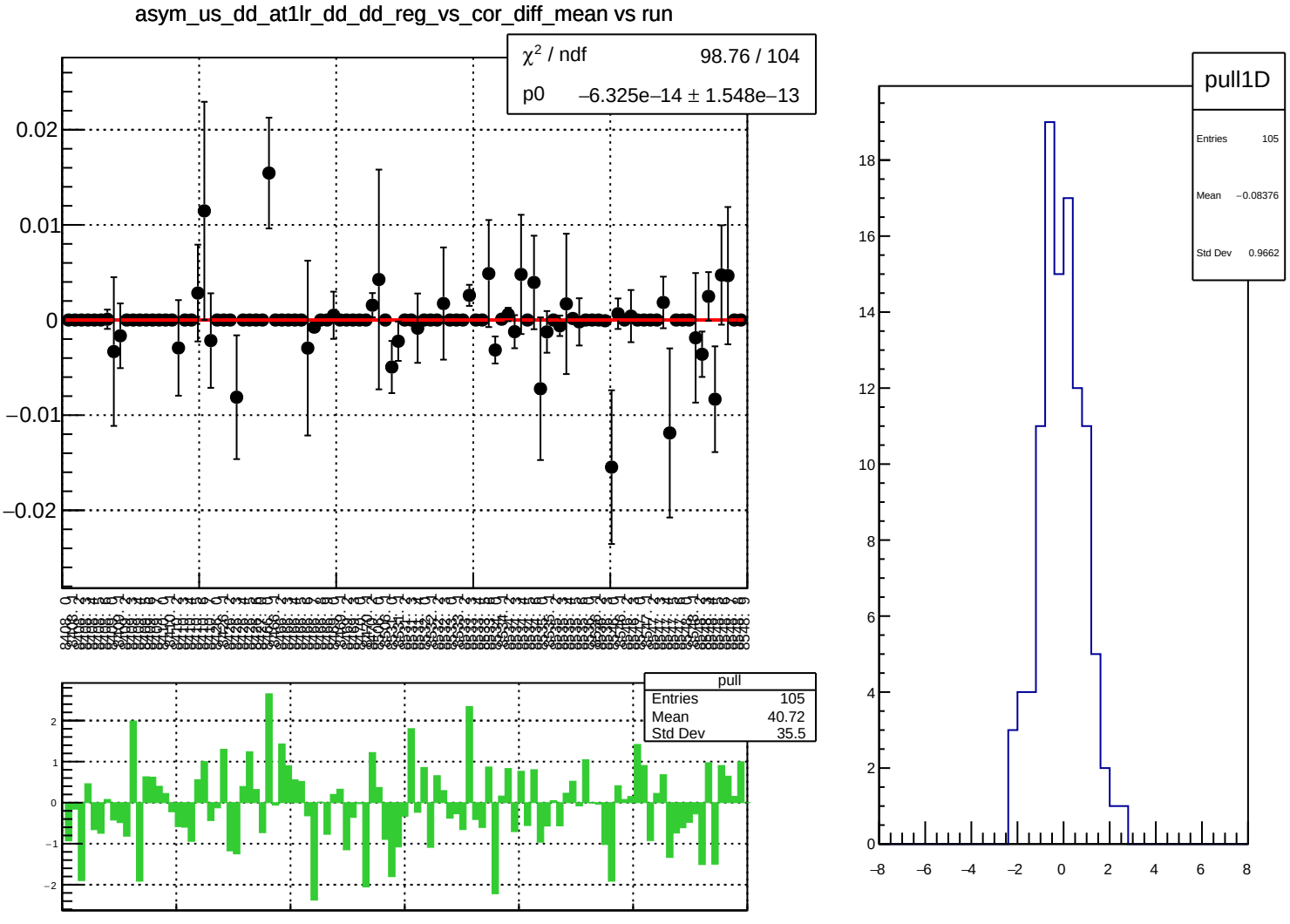

pull1D
Entries 105
Mean 0.004097
Std Dev 1.06
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

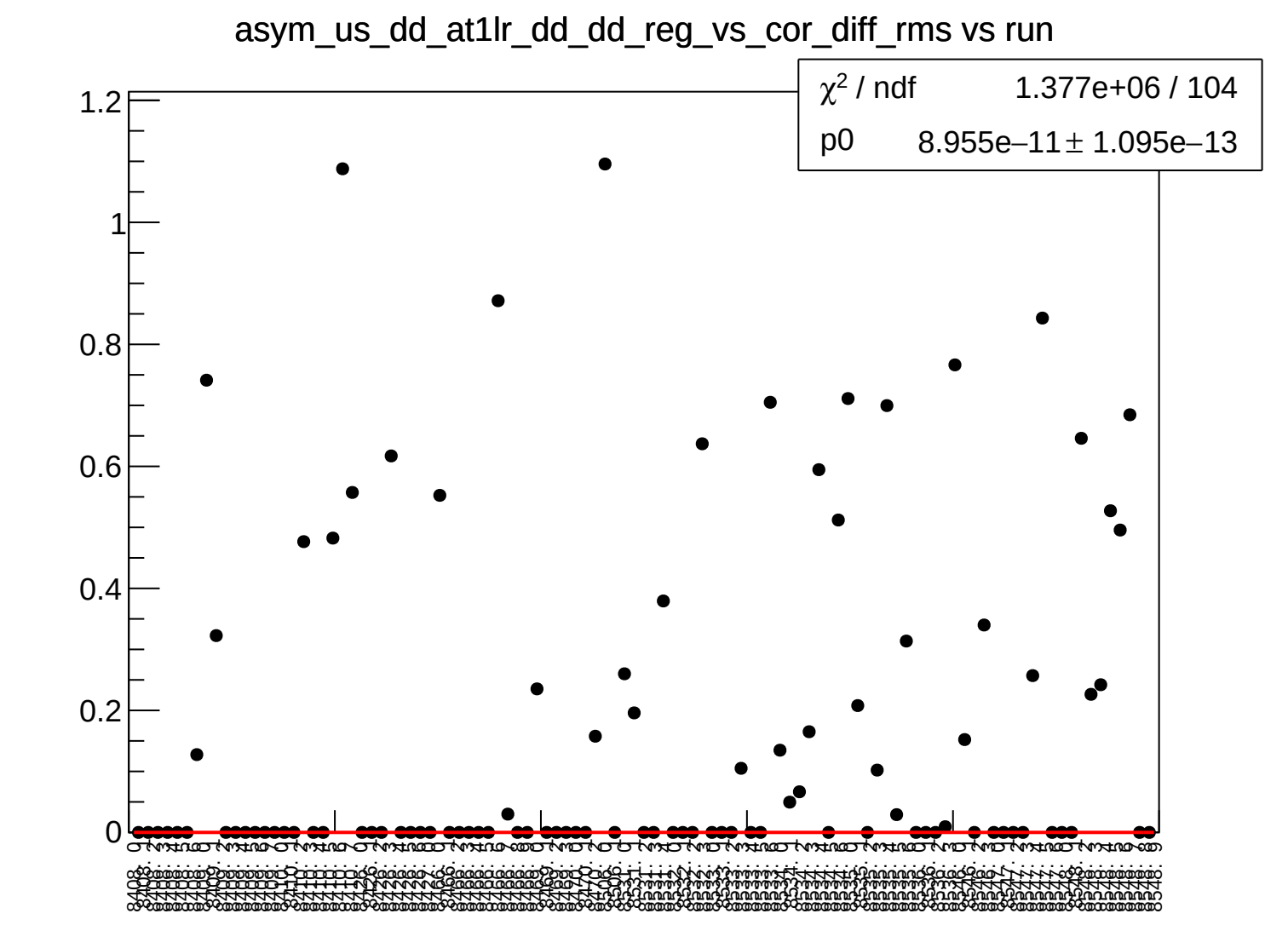

asym_us_dd_at1lr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 9963 / 104
p0 1296 ± 0.9085
1600
1500
1400
1300
1200

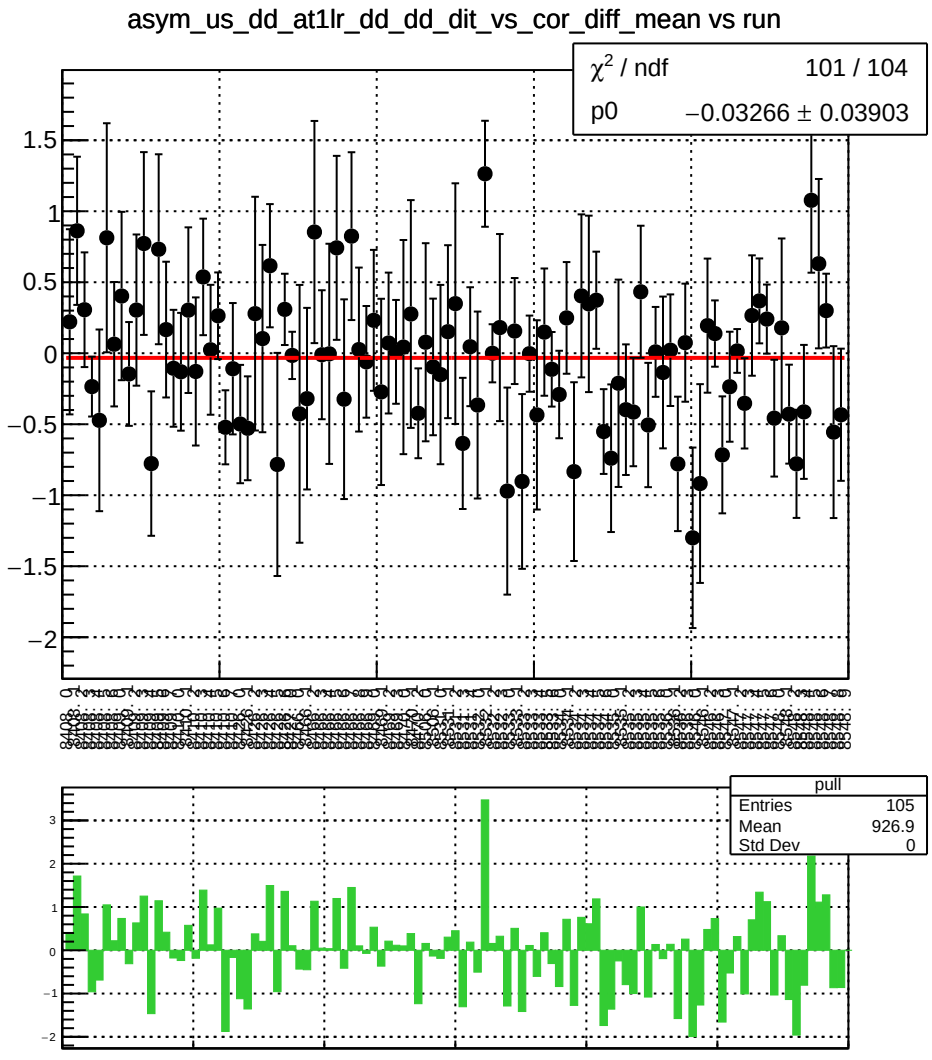

asym_us_dd_at1lr_dd_dd_mean vs run
×10^3
χ^2 / ndf 105.9 / 104
p0 4373 ± 2163
pull
Entries 105
Mean 670.7
Std Dev 0

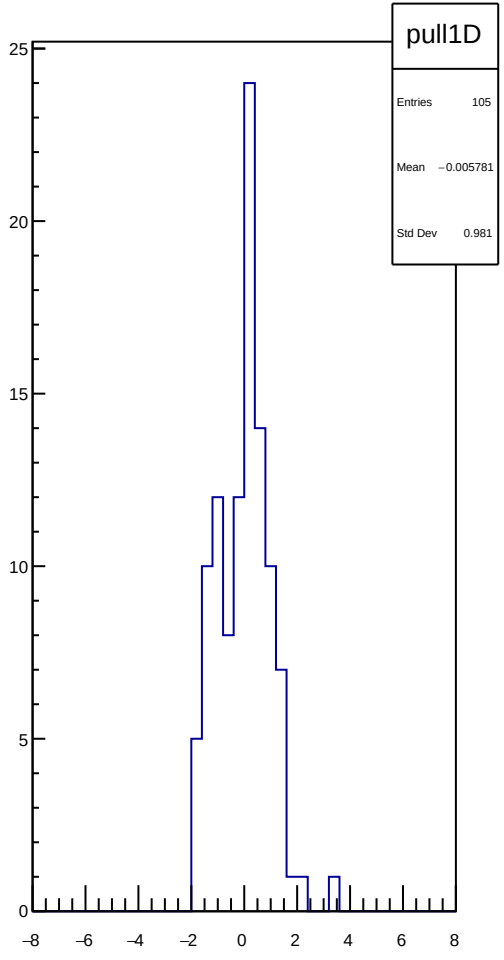

pull1D
Entries 105
Mean 0.003772
Std Dev 1.004

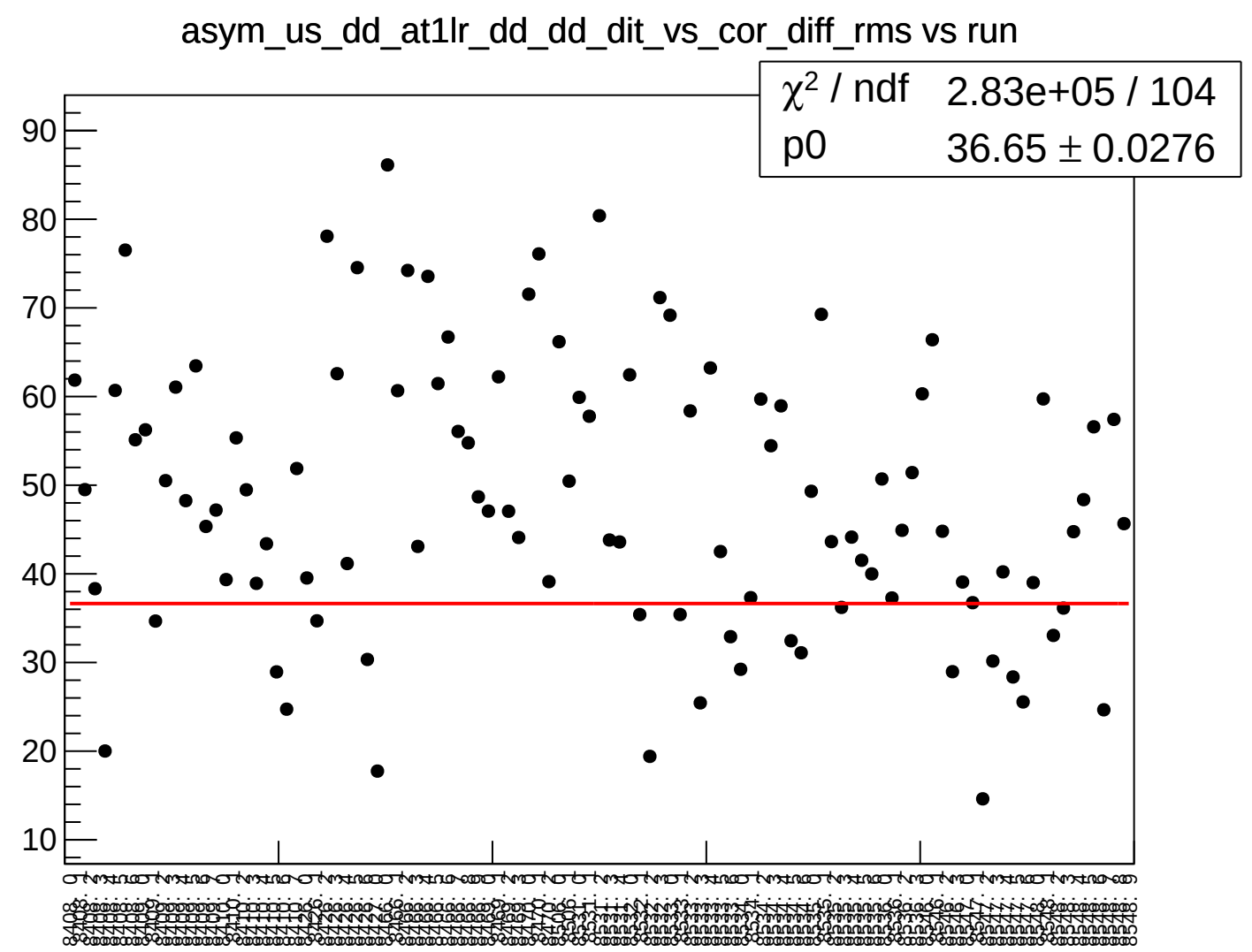

asym_us_dd_at1lr_dd_dd_rms vs run
χ² / ndf 1181 / 104
p0 2187 ± 1.529
2350
2300
2250
2200
2150
2100

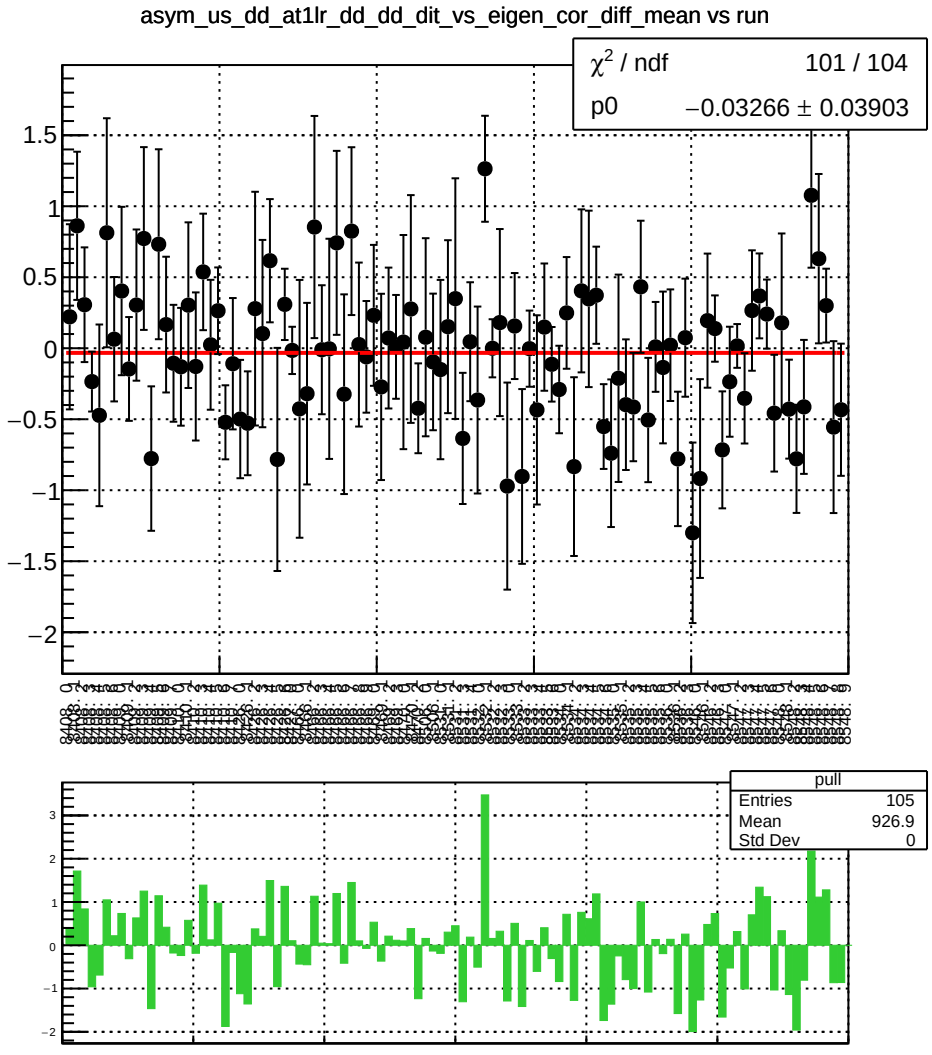

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 98.76 / 104
p0 −6.325e−14 ± 1.548e−13
0.02
0.01
0
−0.01
−0.02
pull
Entries 105
Mean 40.72
Std Dev 35.5
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.08376
Std Dev 0.9662
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

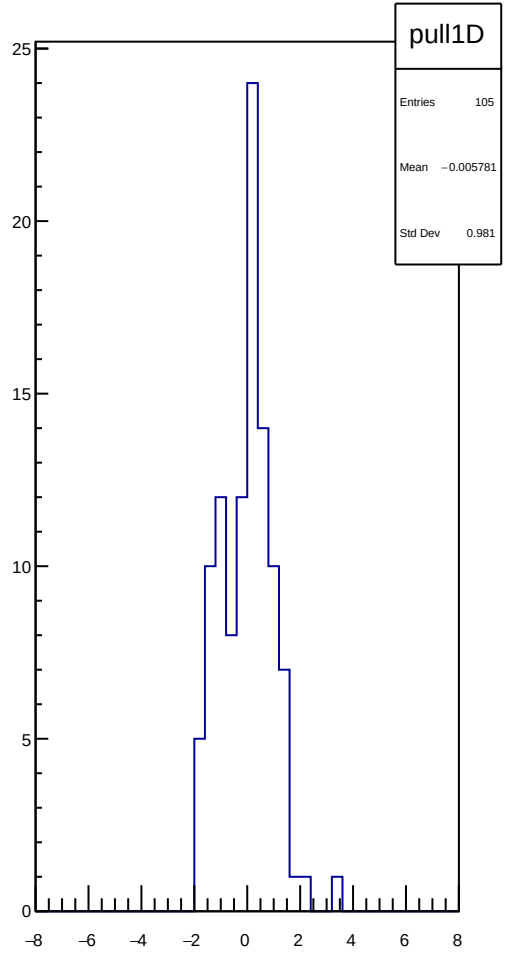

asym_us_dd_at1lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.377e+06 / 104
p0 8.955e−11 ± 1.095e−13
1.2
1
0.8
0.6
0.4
0.2
0

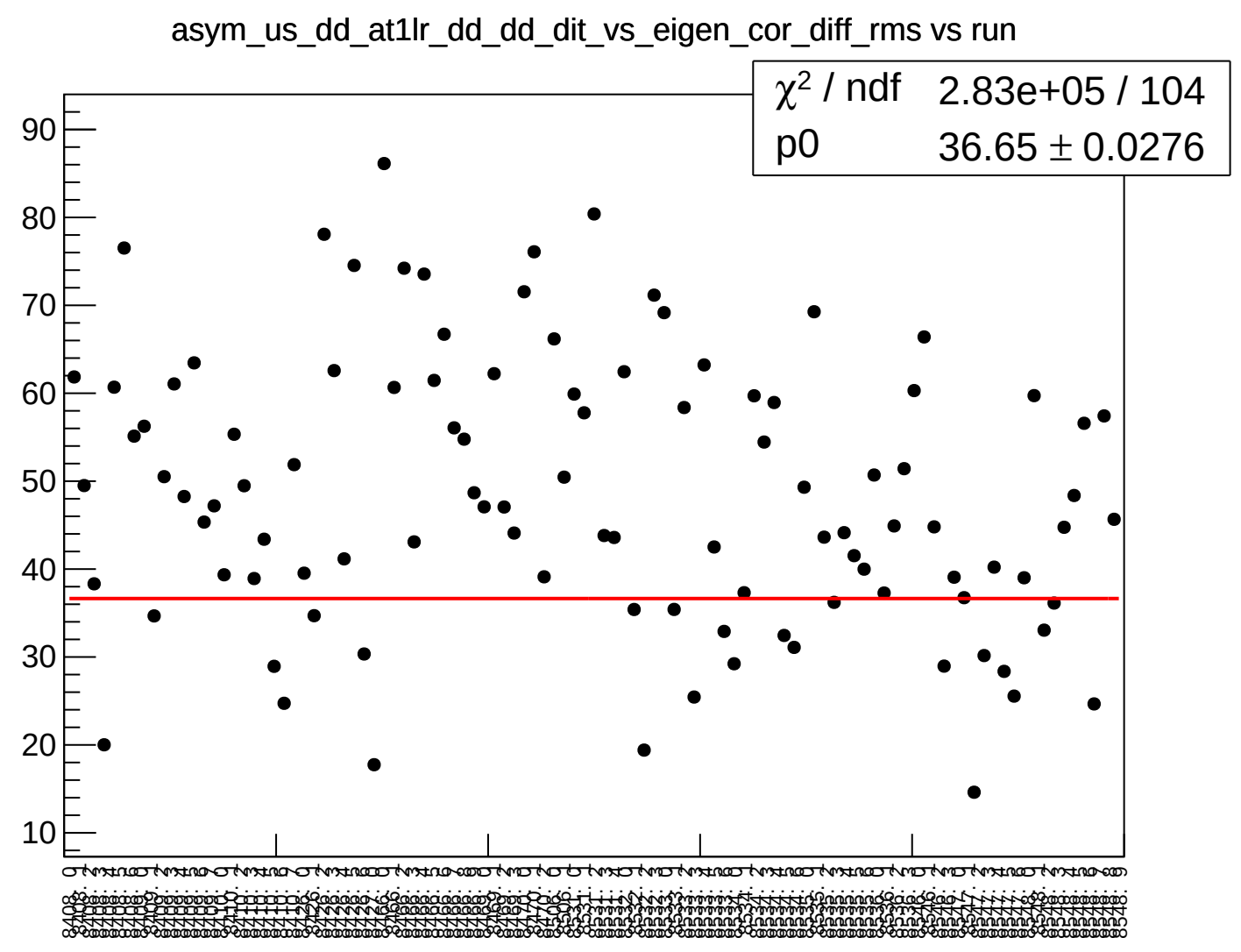

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 101 / 104
p0 −0.03266 ± 0.03903
pull
Entries 105
Mean 926.9
Std Dev 0

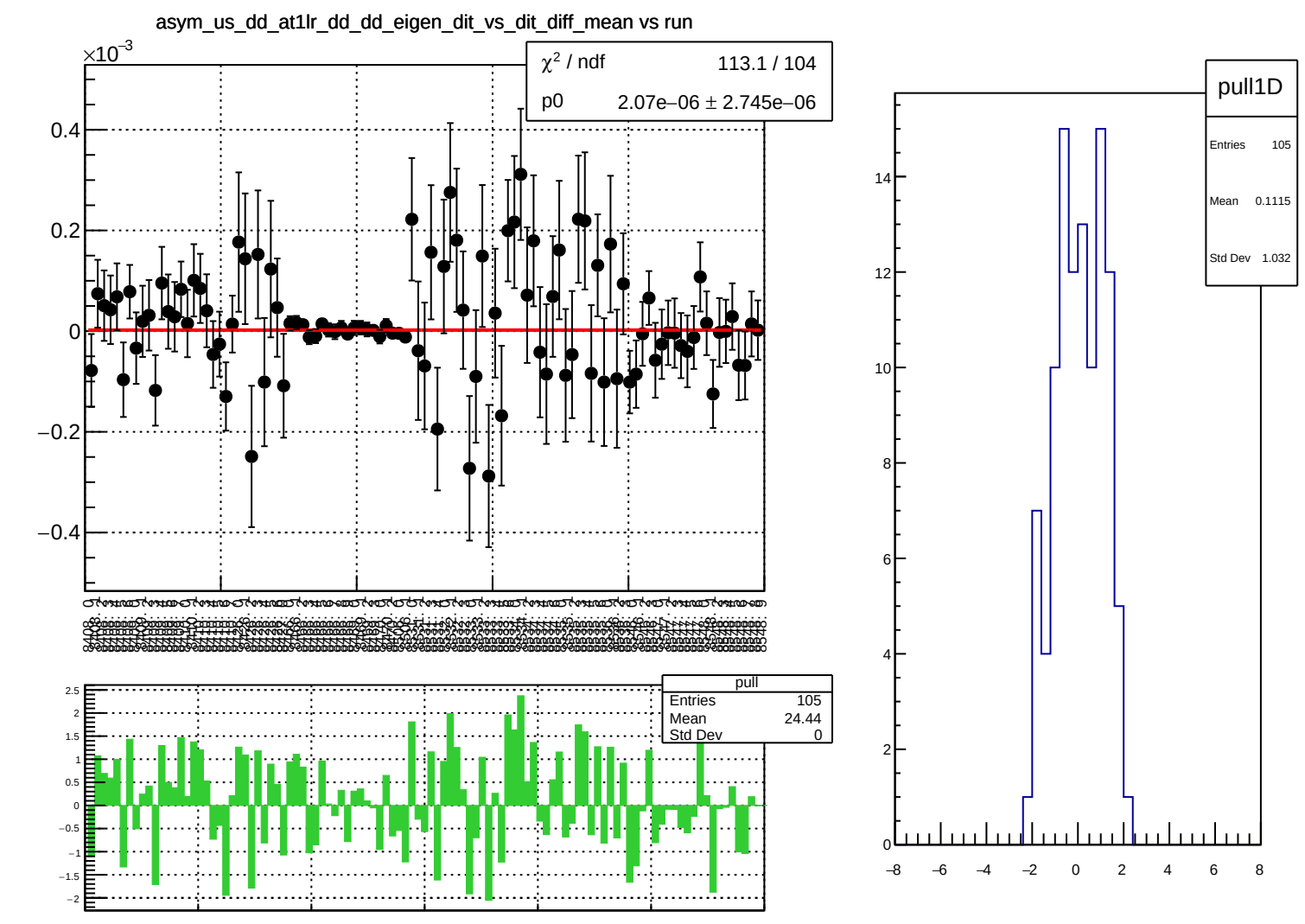

pull1D
Entries 105
Mean −0.005781
Std Dev 0.981

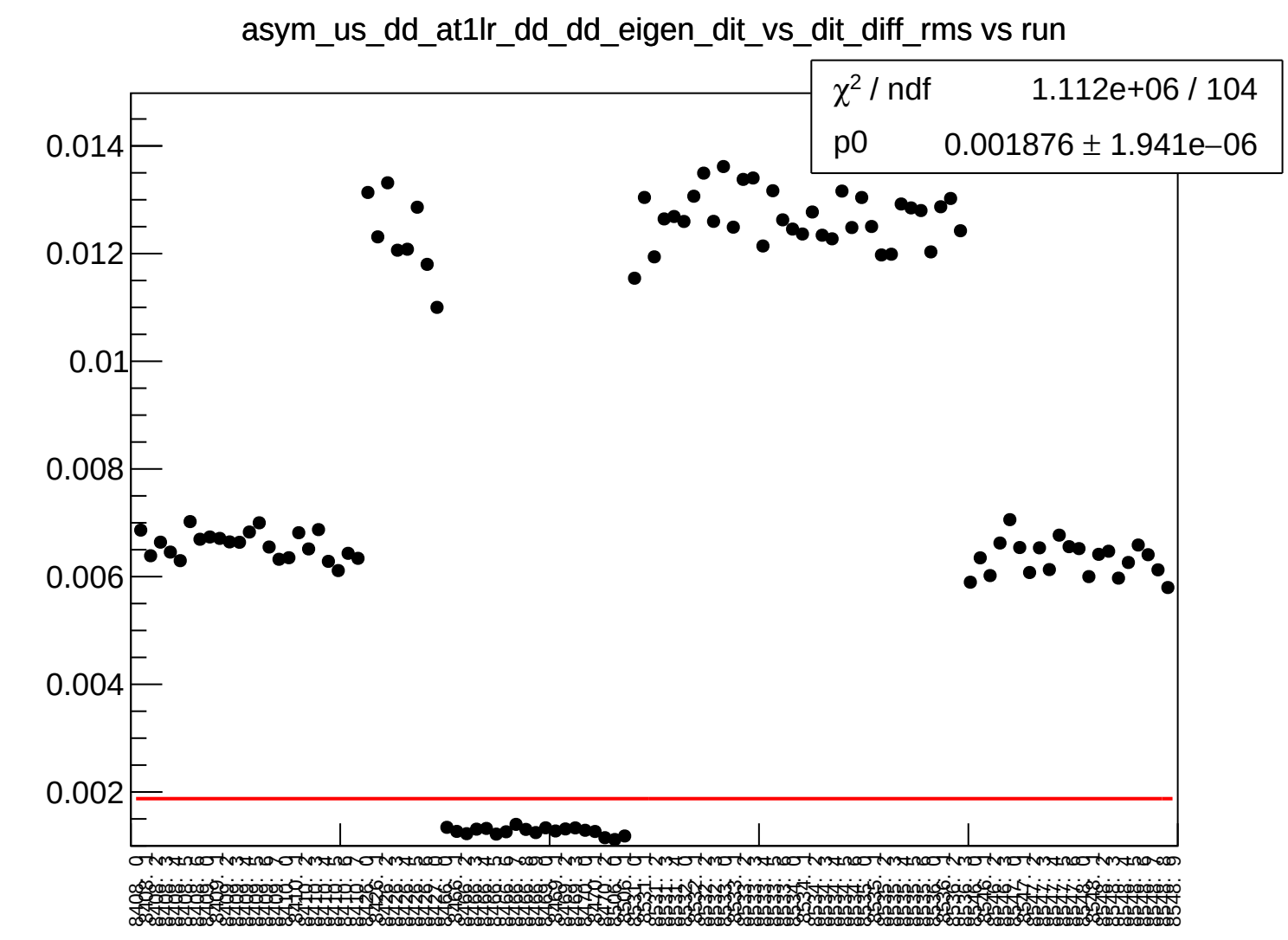

asym_us_dd_at1lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 2.83e+05 / 104
p0 36.65 ± 0.0276
90
80
70
60
50
40
30
20
10

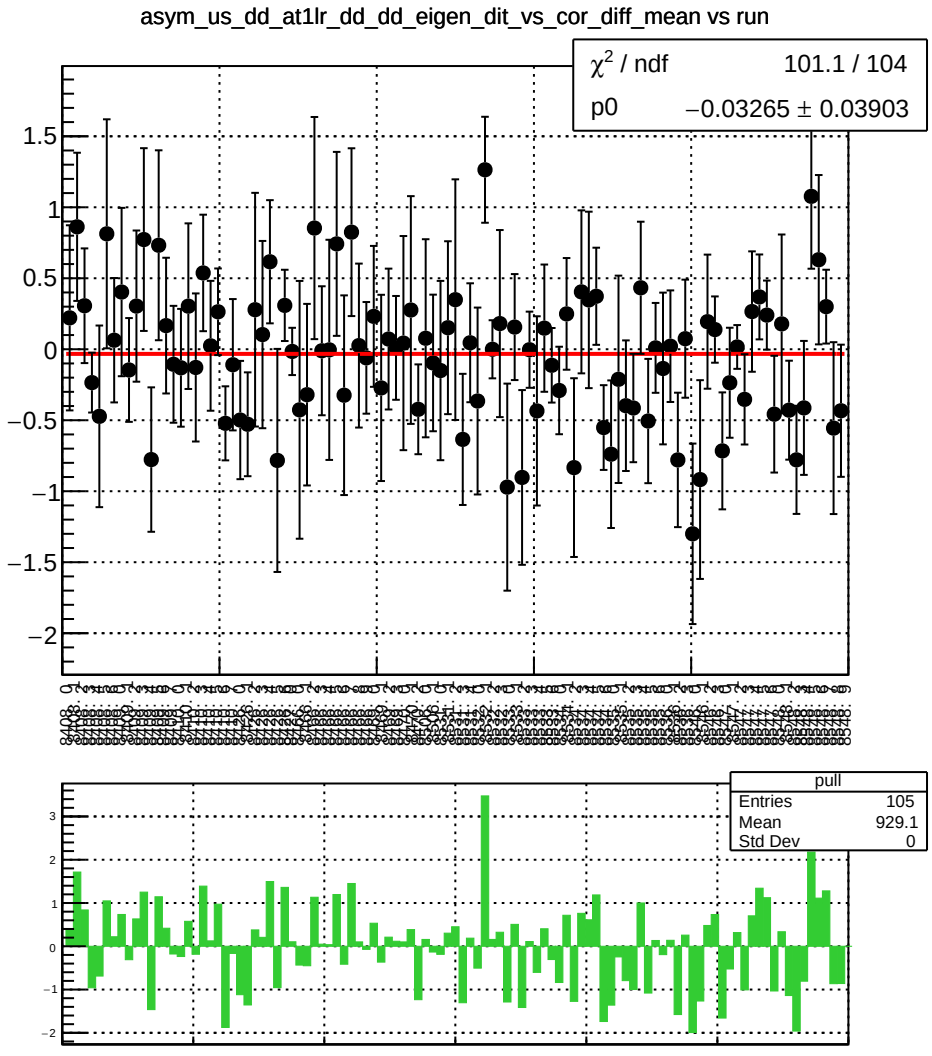

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101 / 104
p0 −0.03266 ± 0.03903
pull
Entries 105
Mean 926.9
Std Dev 0

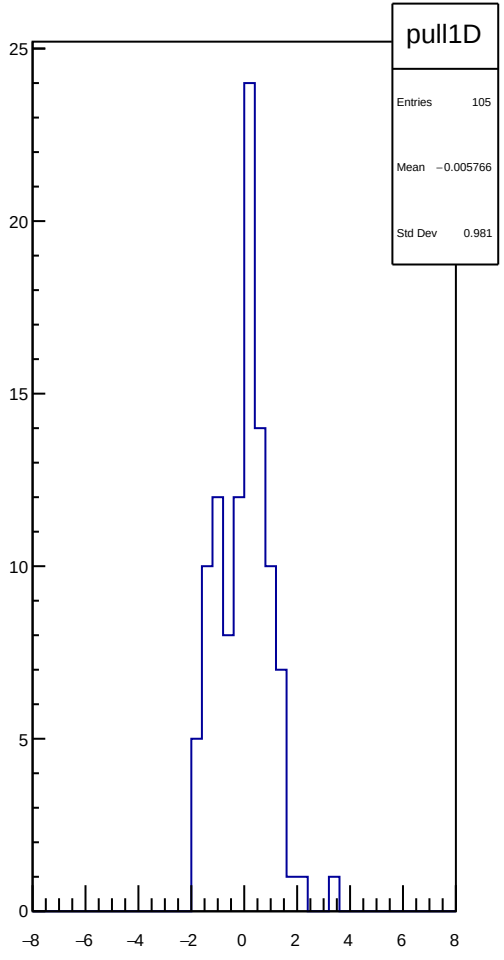

pull1D
Entries 105
Mean −0.005781
Std Dev 0.981

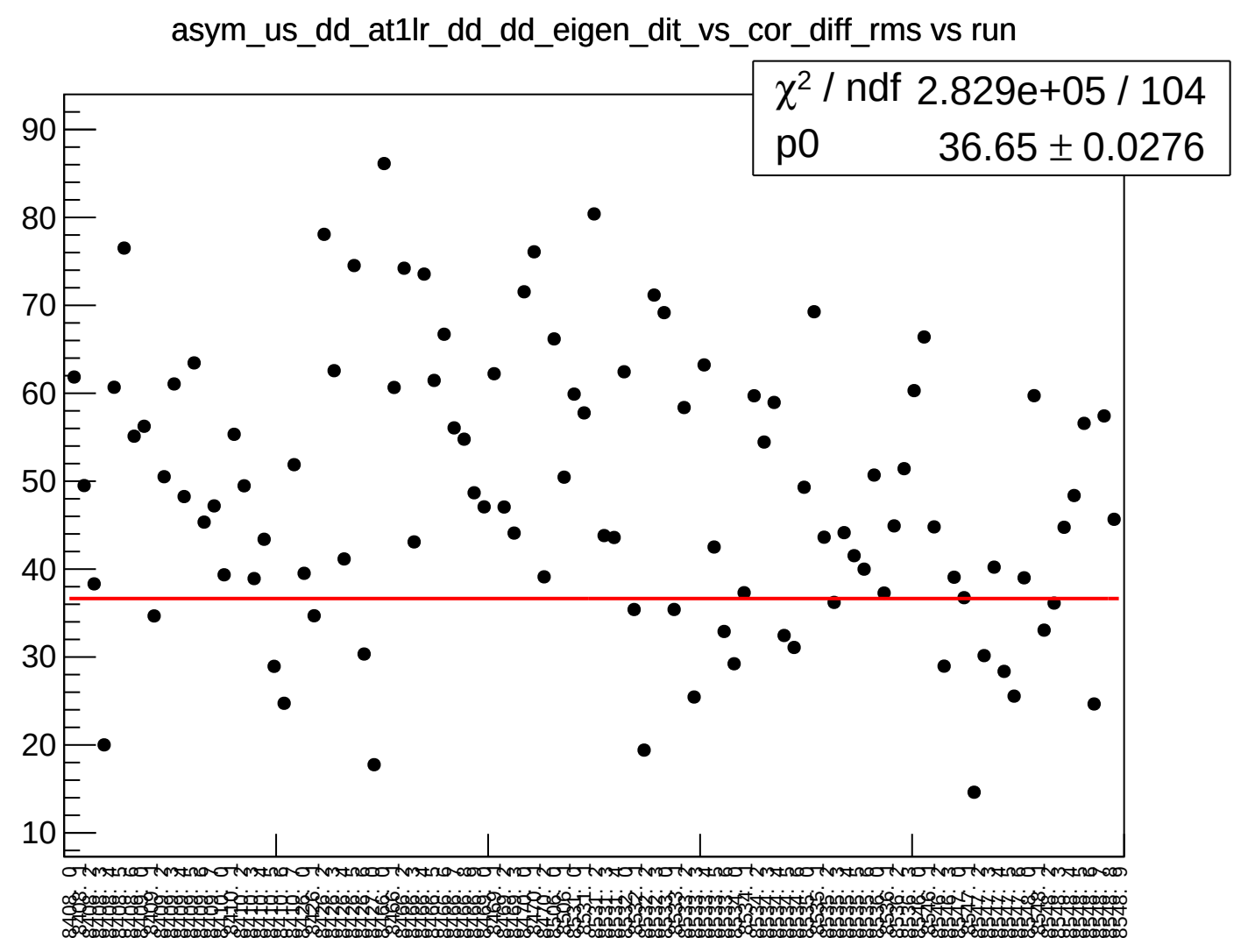

asym_us_dd_at1lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 2.83e+05 / 104
p0 36.65 ± 0.0276
90
80
70
60
50
40
30
20
10

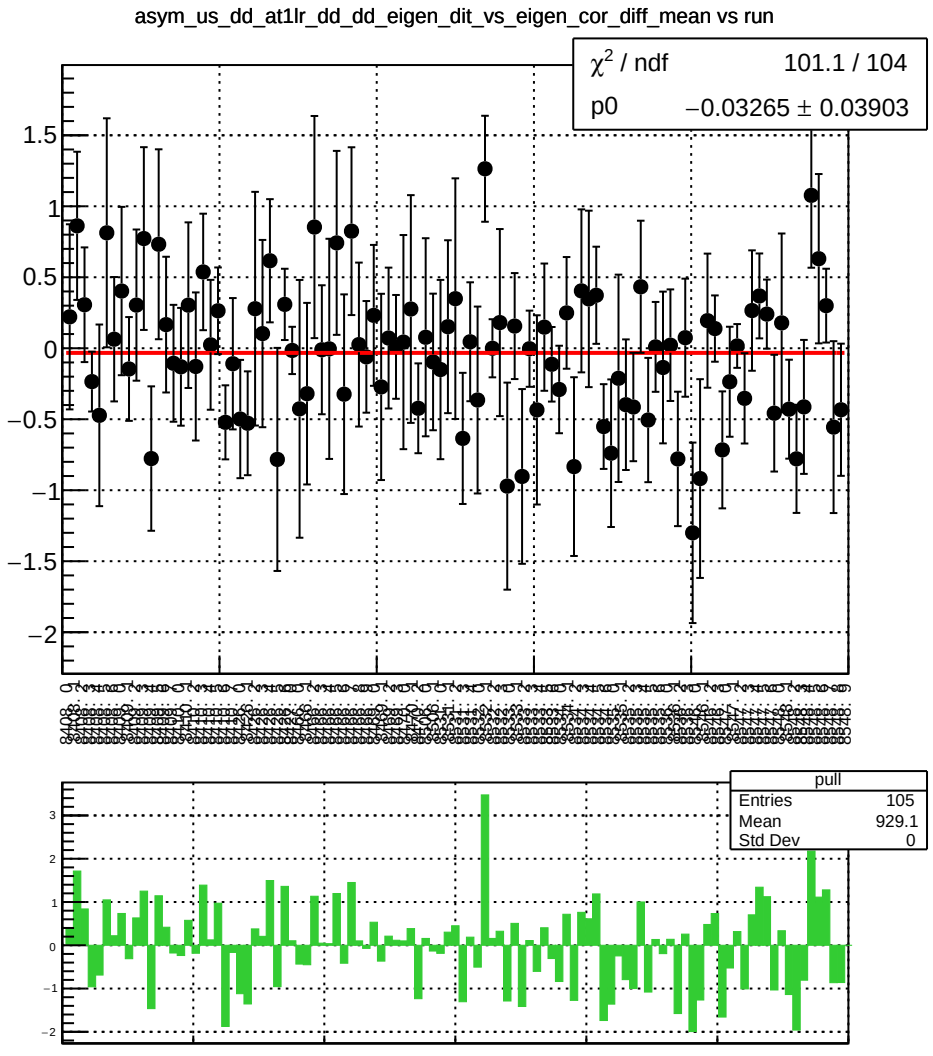

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 113.1 / 104
p0 2.07e−06 ± 2.745e−06
0.4
0.2
0
−0.2
−0.4
pull
Entries 105
Mean 24.44
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 105
Mean 0.1115
Std Dev 1.032
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

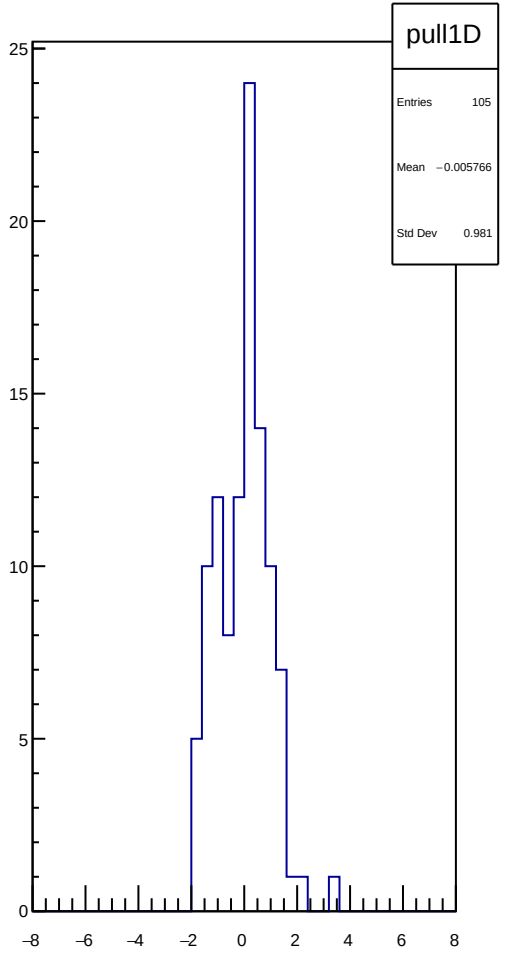

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.112e+06 / 104
p0 0.001876 ± 1.941e−06
0.014
0.012
0.01
0.008
0.006
0.004
0.002

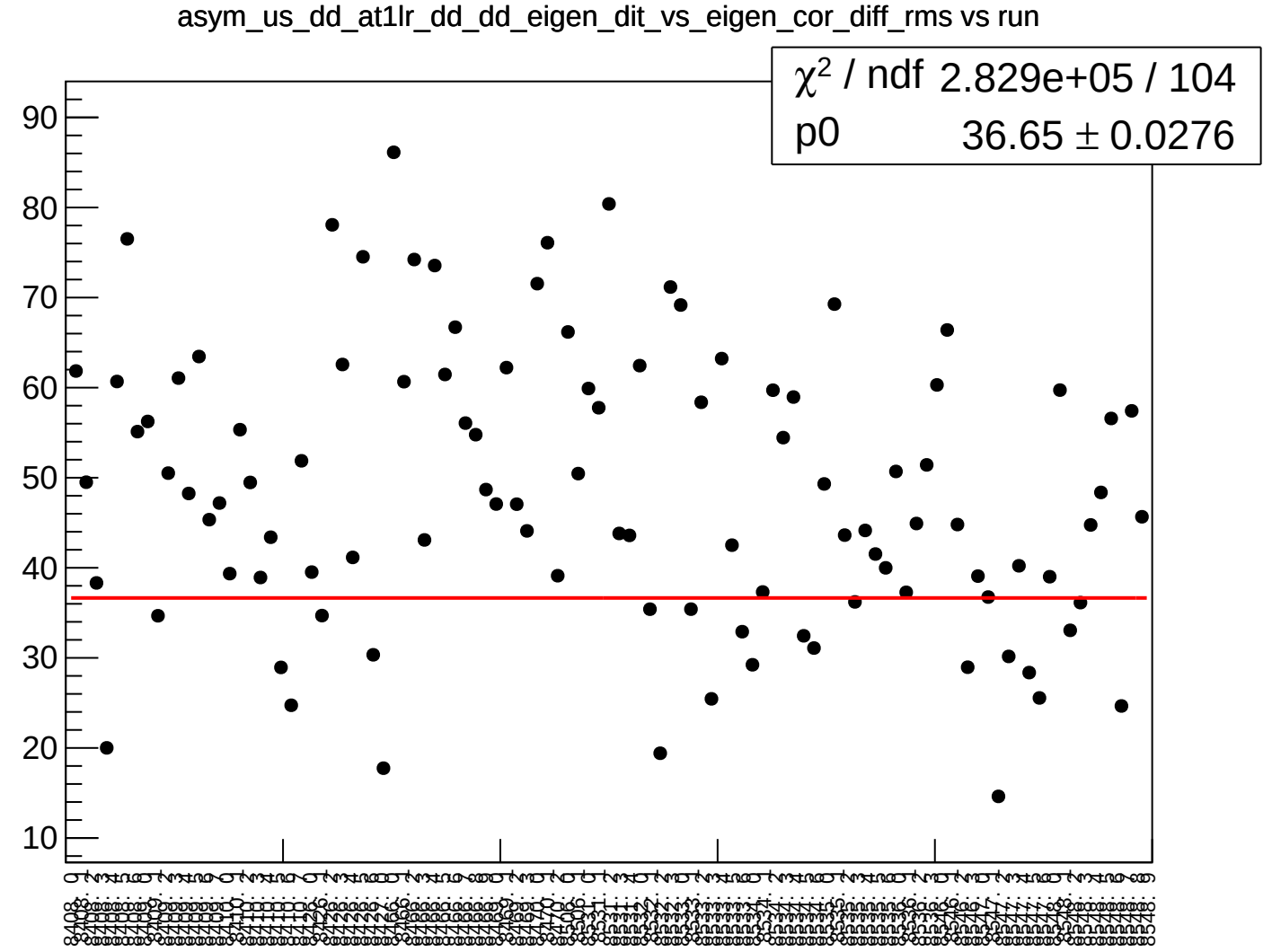

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 101.1 / 104
p0 −0.03265 ± 0.03903
pull
Entries 105
Mean 929.1
Std Dev 0

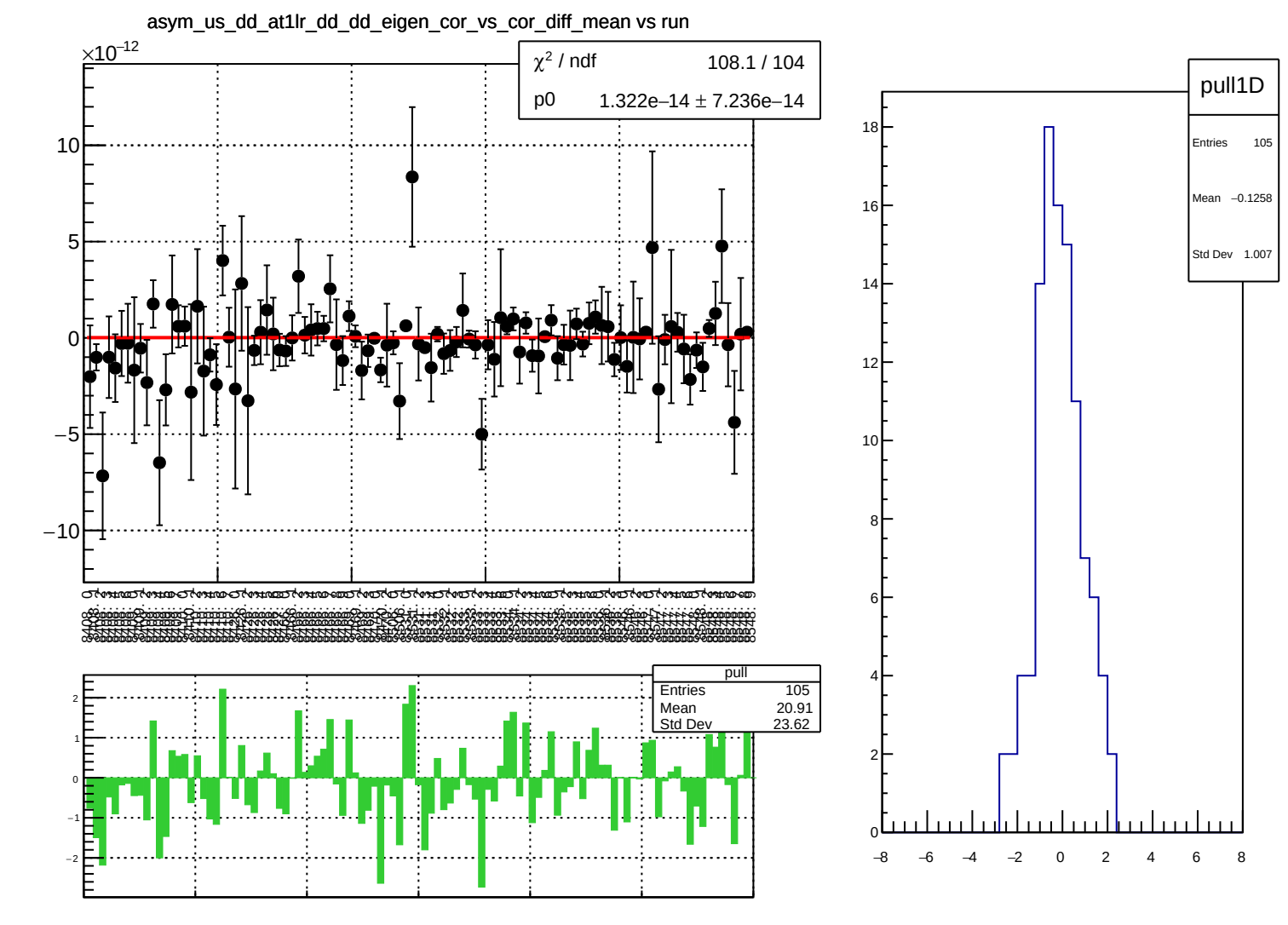

pull1D
Entries 105
Mean −0.005766
Std Dev 0.981

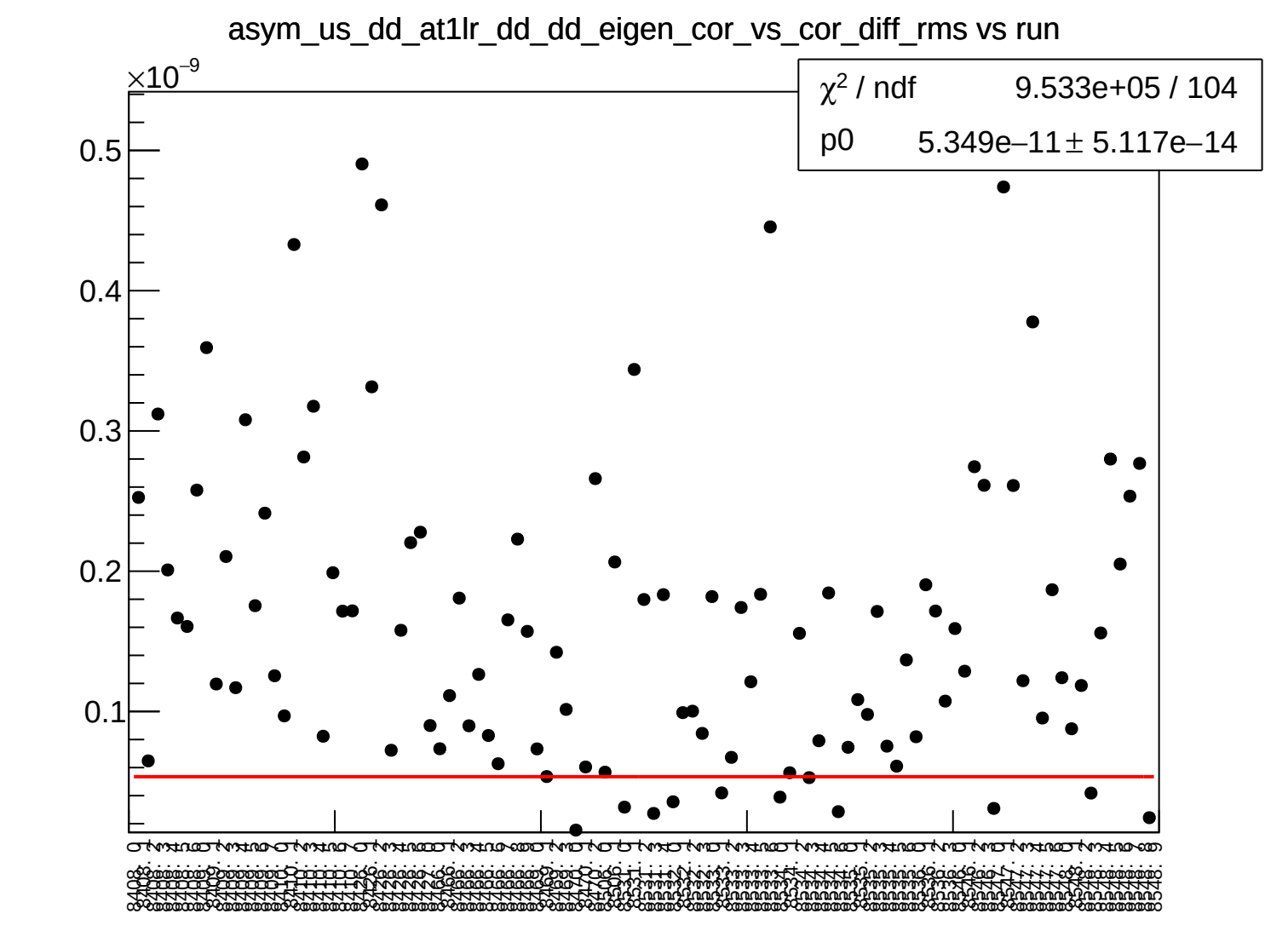

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.829e+05 / 104
p0 36.65 ± 0.0276
90
80
70
60
50
40
30
20
10

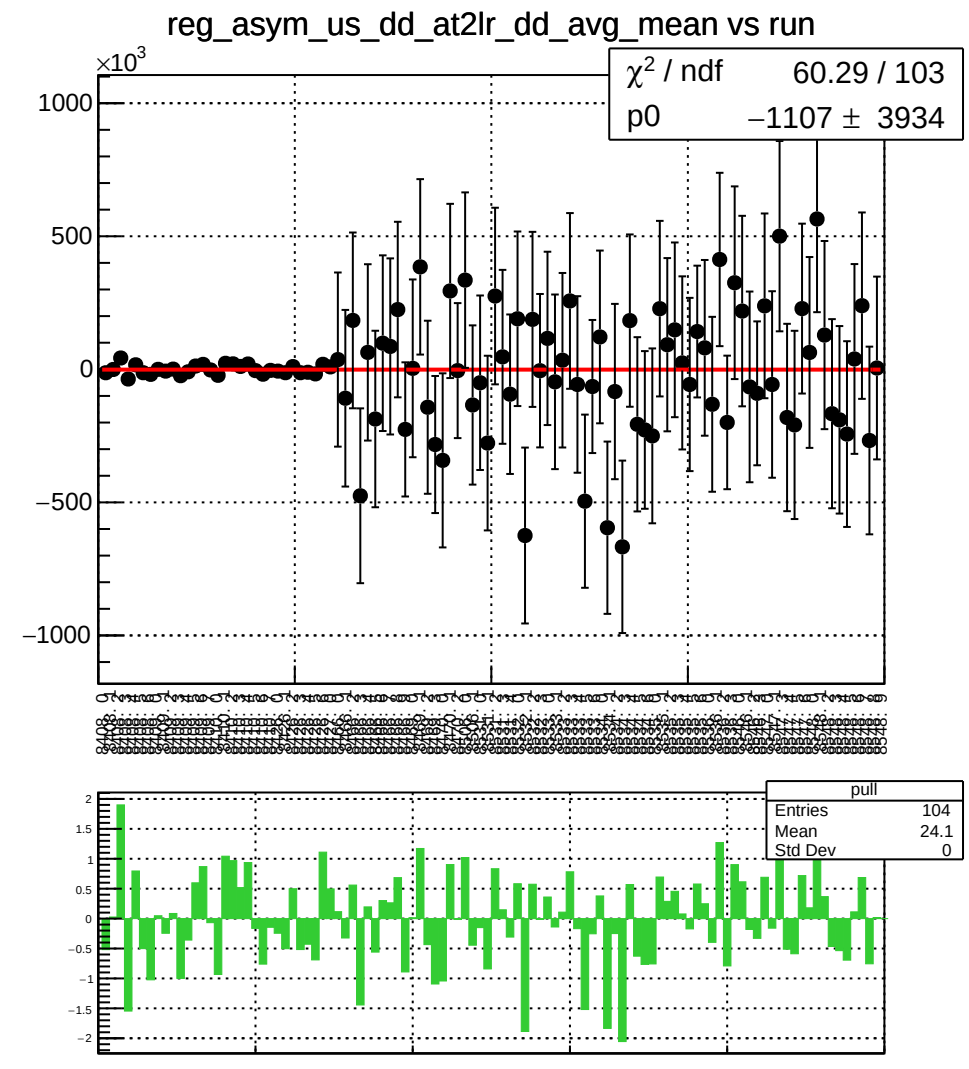

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.1 / 104
p0 −0.03265 ± 0.03903
pull
Entries 105
Mean 929.1
Std Dev 0

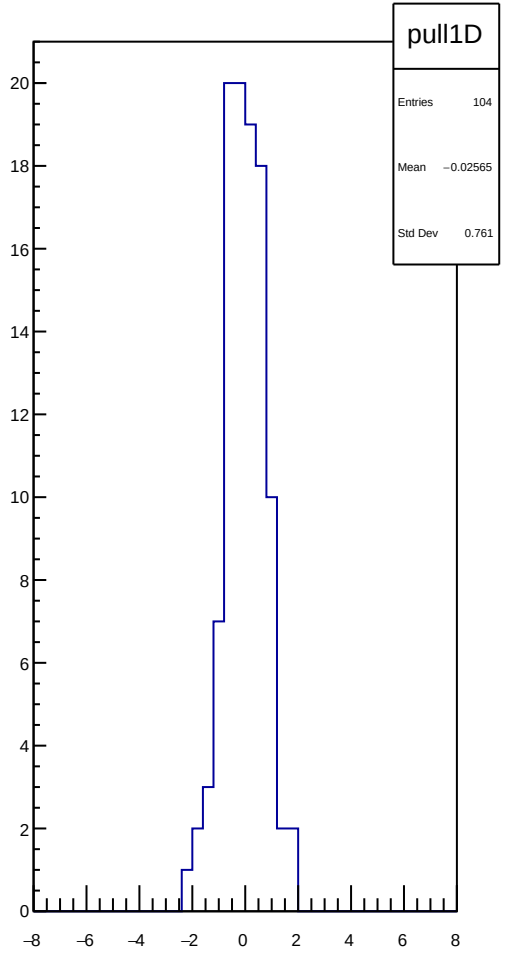

pull1D
Entries 105
Mean −0.005766
Std Dev 0.981

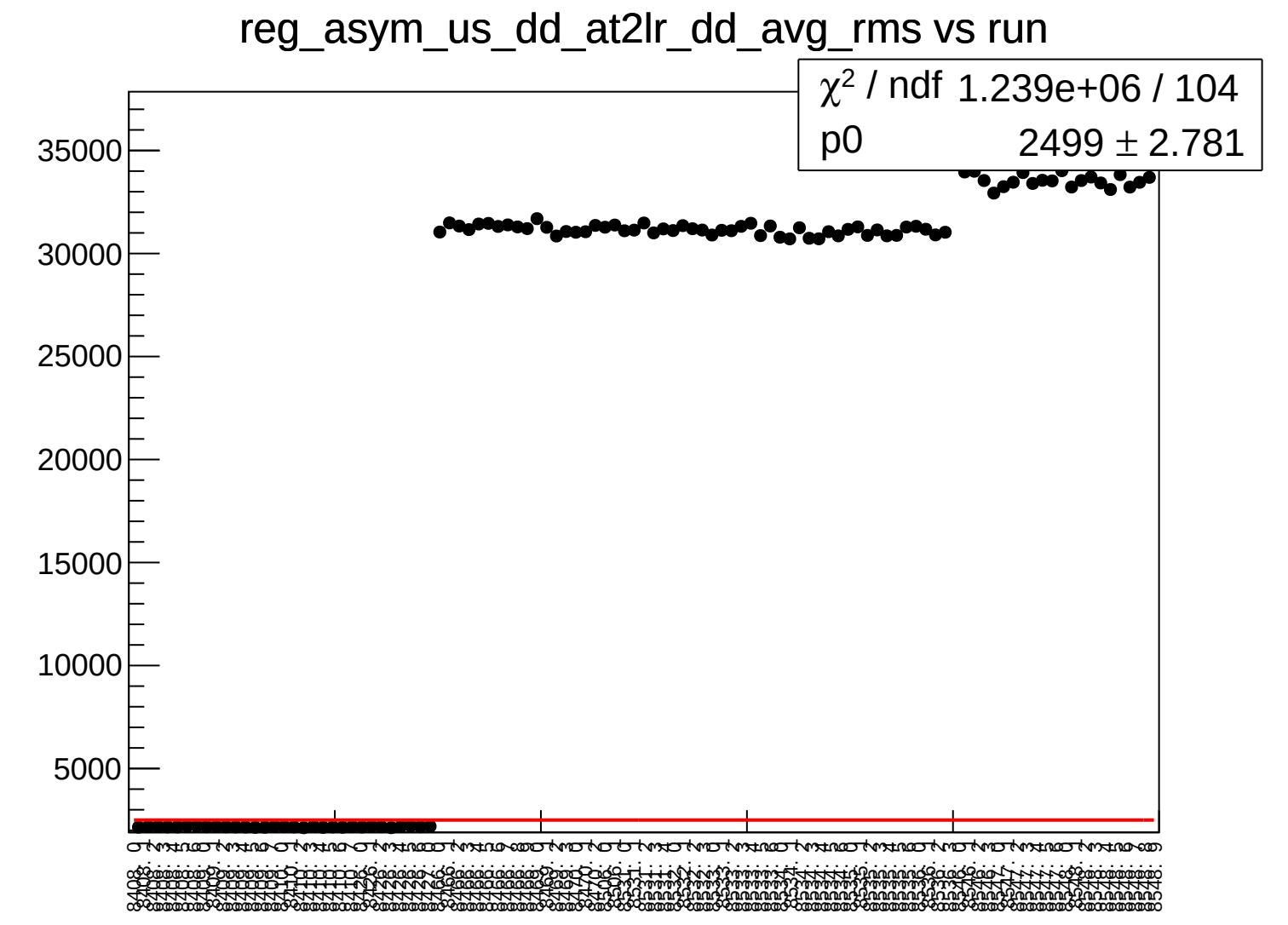

asym_us_dd_at1lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.829e+05 / 104
p0 36.65 ± 0.0276
90
80
70
60
50
40
30
20
10

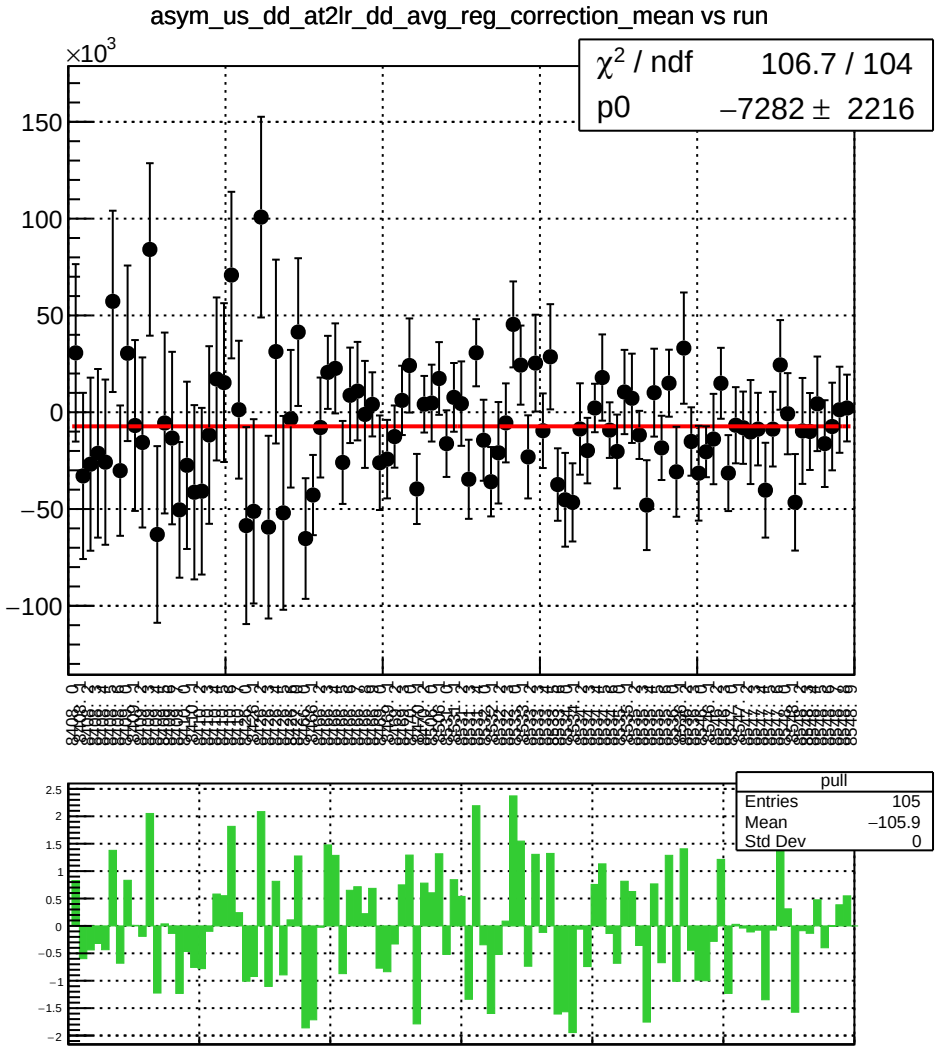

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 108.1 / 104
p0 1.322e−14 ± 7.236e−14
10
5
0
−5
−10
pull
Entries 105
Mean 20.91
Std Dev 23.62
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.1258
Std Dev 1.007
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

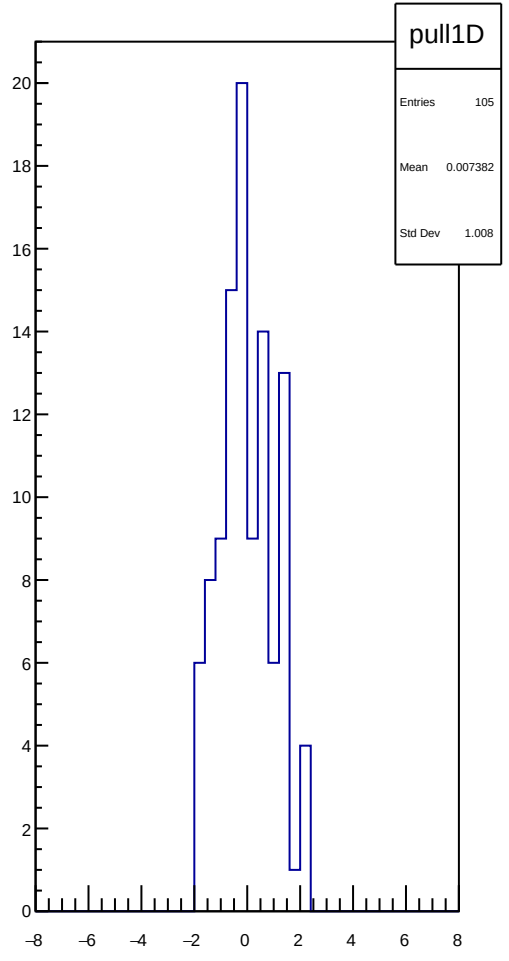

asym_us_dd_at1lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.533e+05 / 104
p0 5.349e−11 ± 5.117e−14
0.5
0.4
0.3
0.2
0.1

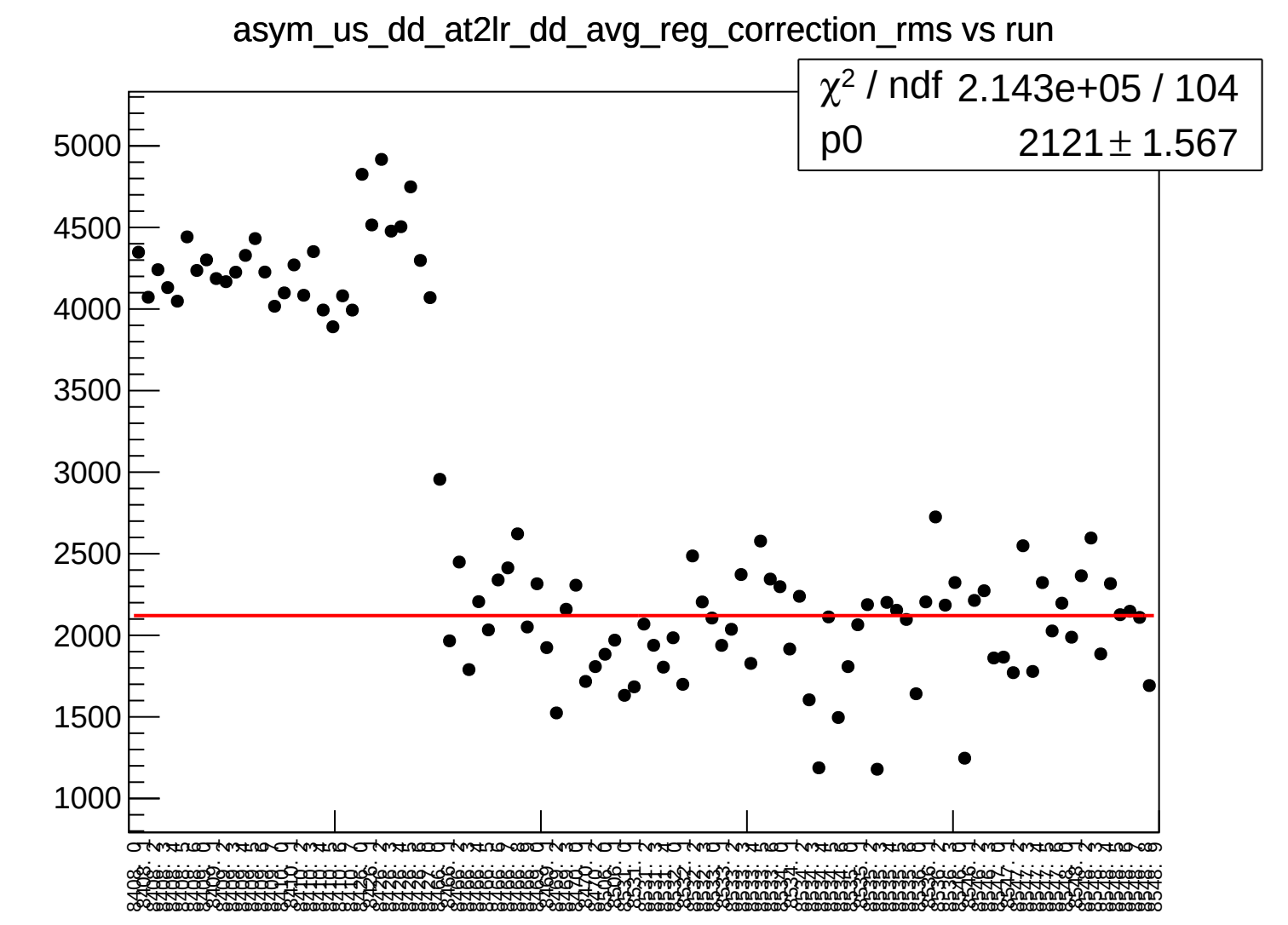

reg_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ^2 / ndf 60.29 / 103
p0 −1107 ± 3934
1000
500
0
−500
−1000
pull
Entries 104
Mean 24.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

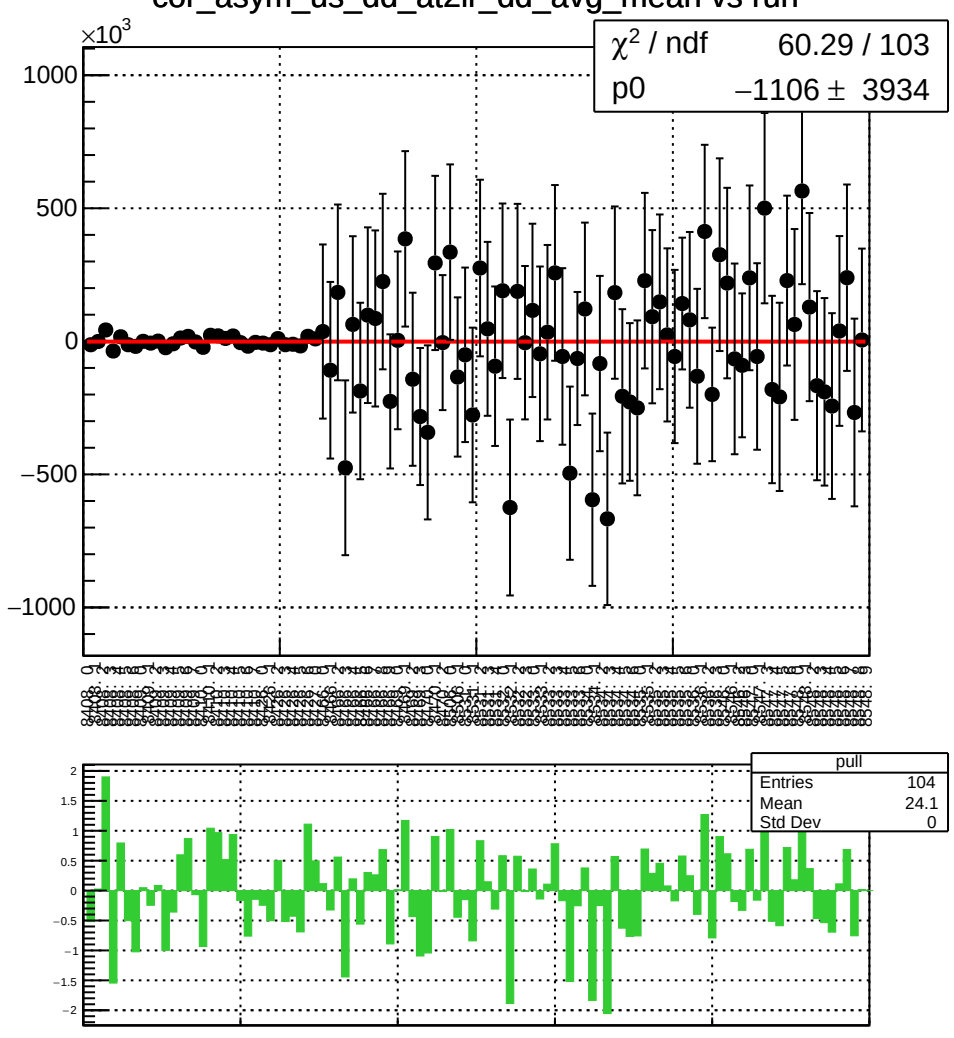

pull1D
Entries 104
Mean −0.02565
Std Dev 0.761
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

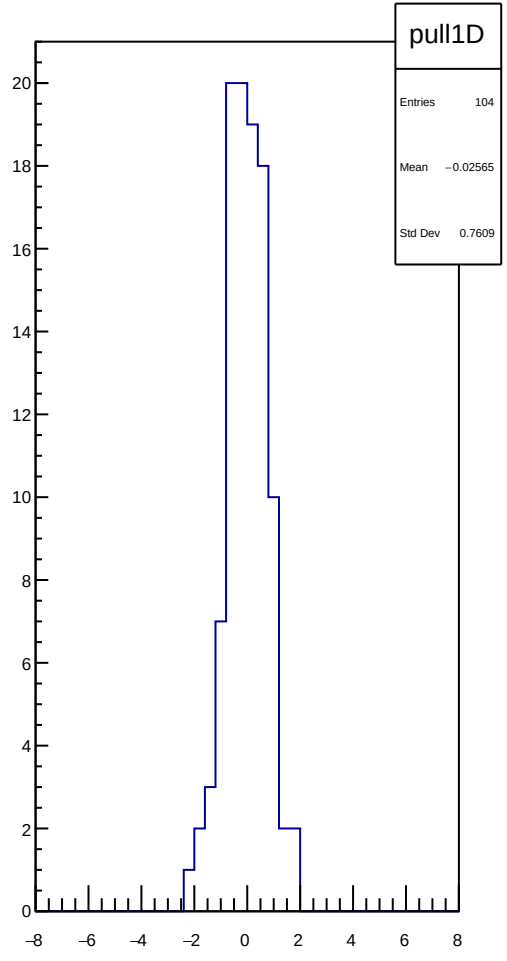

reg_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 1.239e+06 / 104
p0 2499 ± 2.781
35000
30000
25000
20000
15000
10000
5000

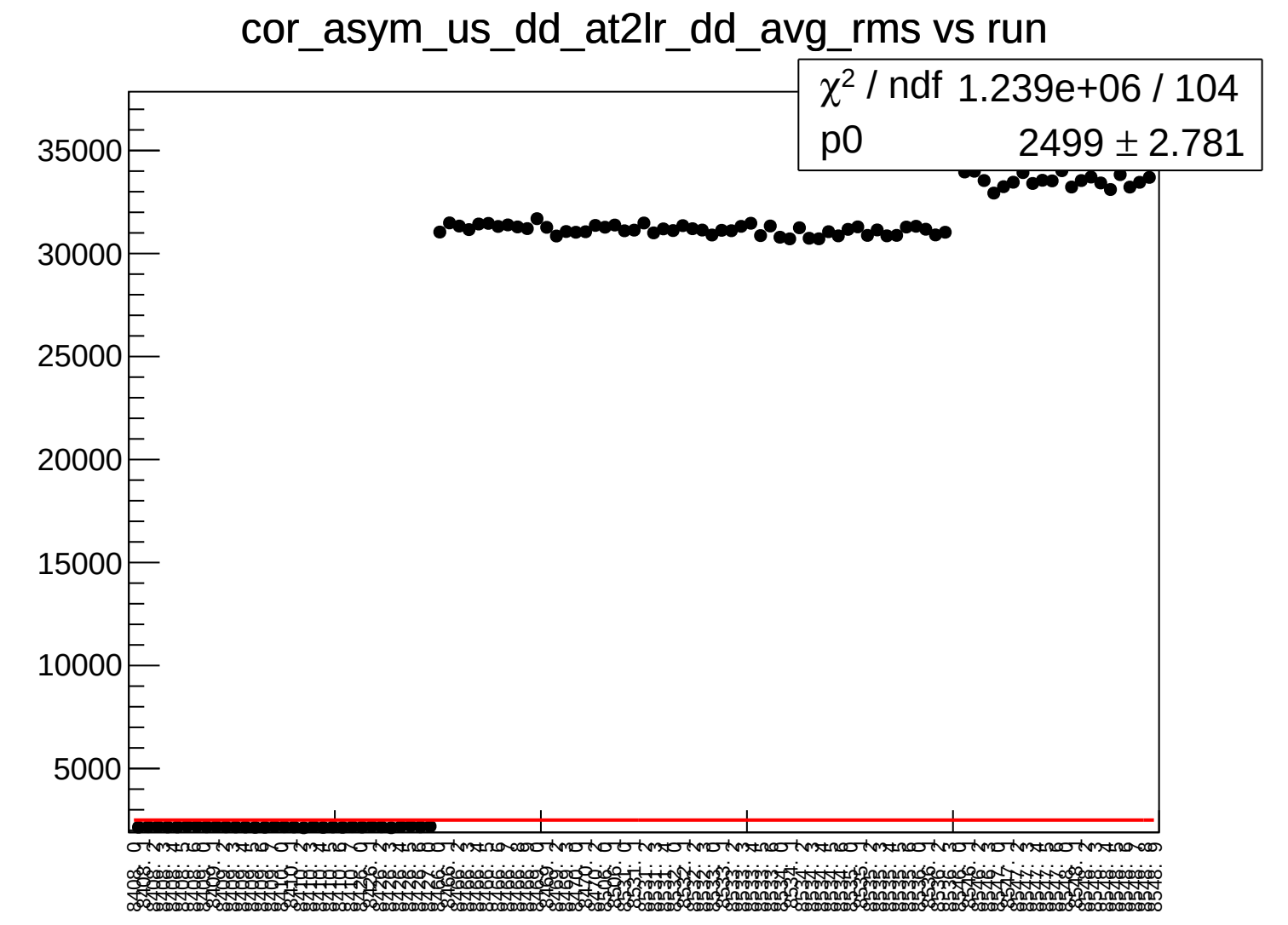

asym_us_dd_at2lr_dd_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 106.7 / 104
p0 −7282 ± 2216
150
100
50
0
−50
−100
pull
Entries 105
Mean −105.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

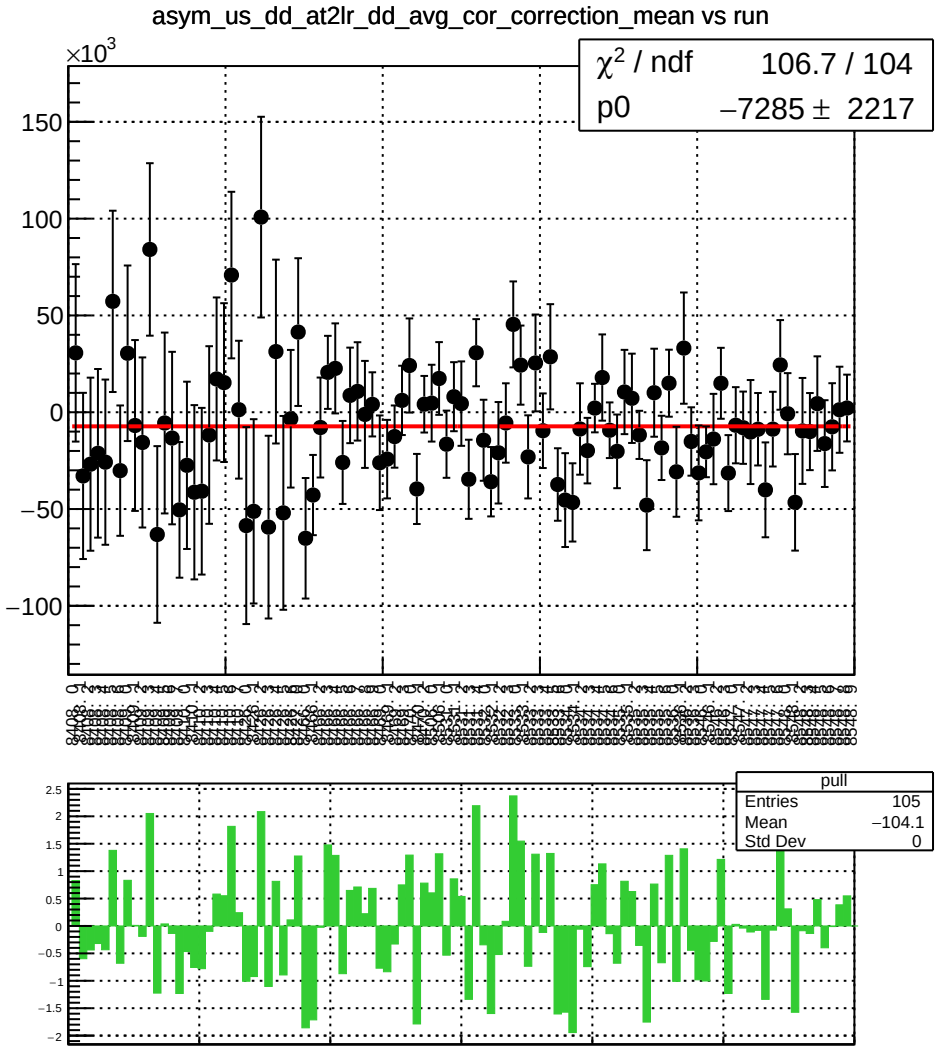

pull1D
Entries 105
Mean 0.007382
Std Dev 1.008
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

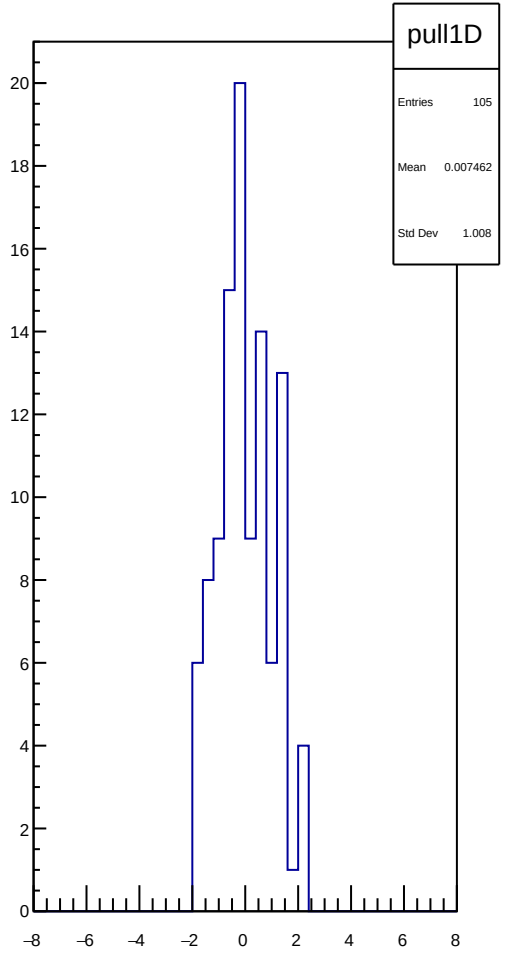

asym_us_dd_at2lr_dd_avg_reg_correction_rms vs run
χ^2 / ndf 2.143e+05 / 104
p0 2121 ± 1.567
5000
4500
4000
3500
3000
2500
2000
1500
1000

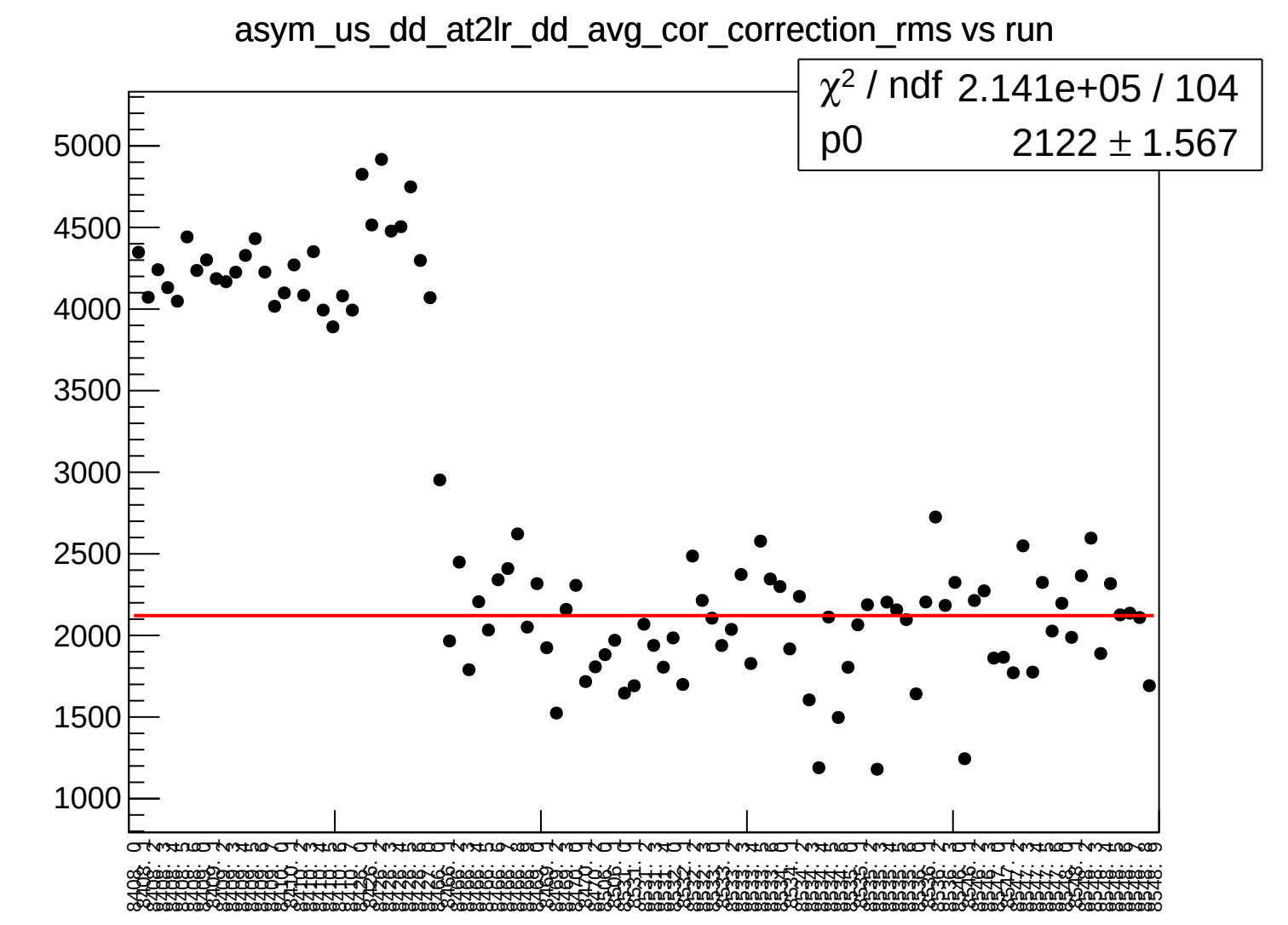

cor_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 60.29 / 103
p0 −1106 ± 3934
1000
500
0
−500
−1000
pull
Entries 104
Mean 24.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

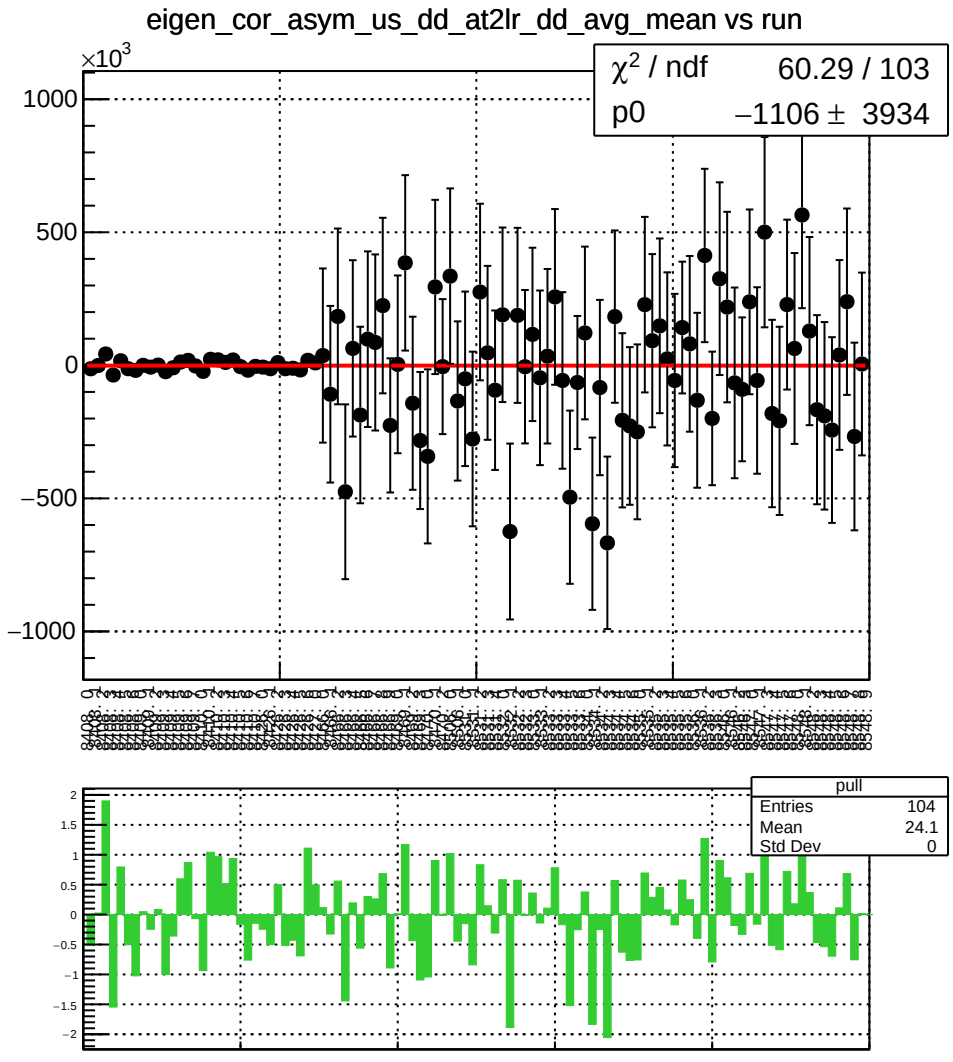

pull1D
Entries 104
Mean −0.02565
Std Dev 0.7609
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

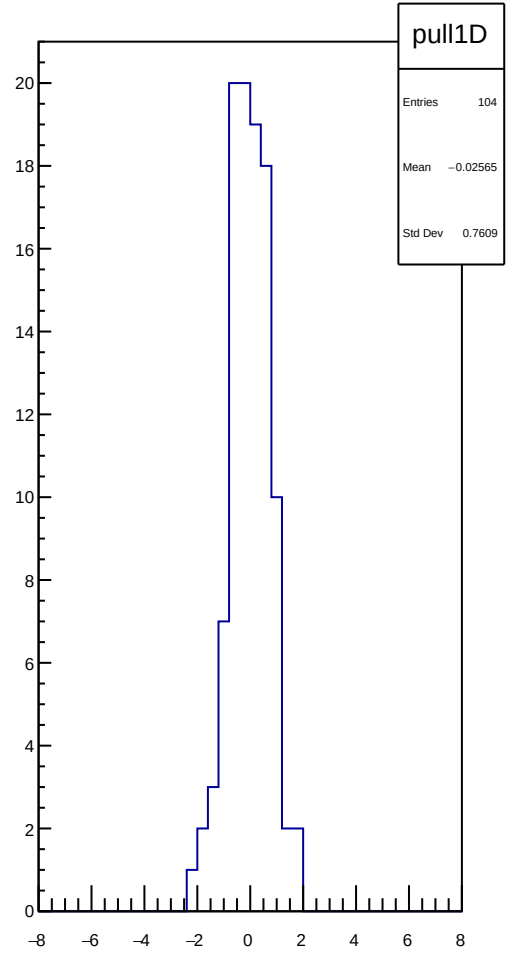

cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 1.239e+06 / 104
p0 2499 ± 2.781
35000
30000
25000
20000
15000
10000
5000

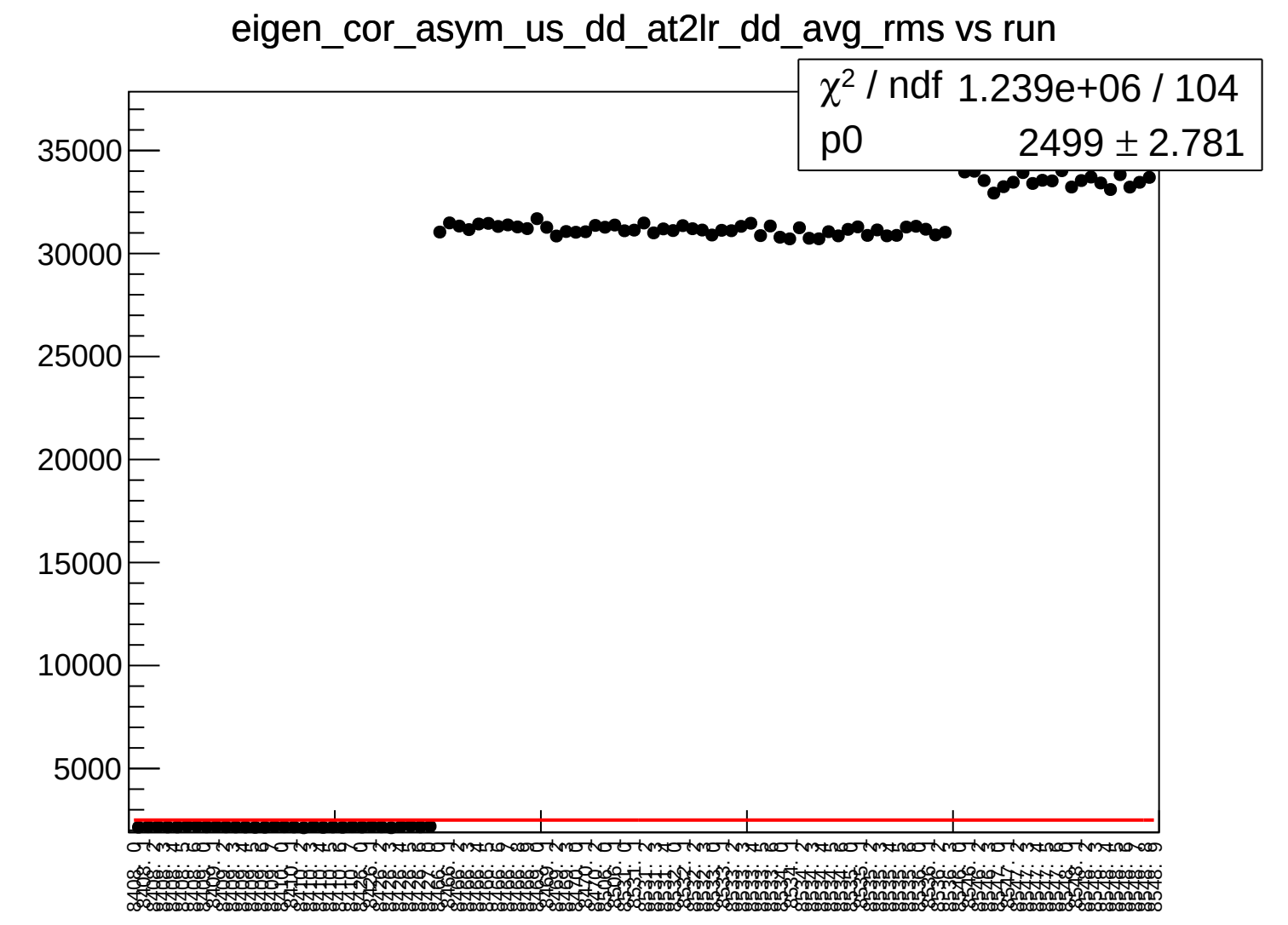

asym_us_dd_at2lr_dd_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 106.7 / 104
p0 −7285 ± 2217
150
100
50
0
−50
−100
pull
Entries 105
Mean −104.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

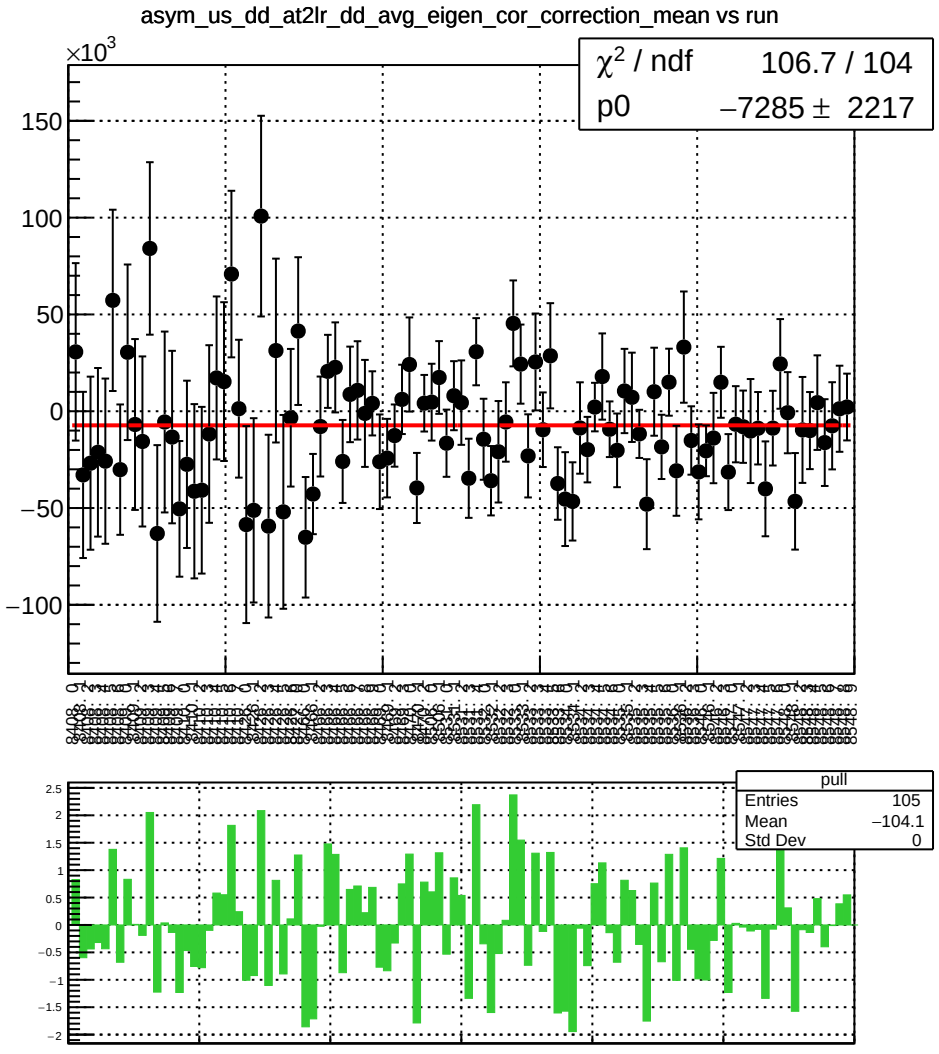

pull1D
Entries 105
Mean 0.007462
Std Dev 1.008
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

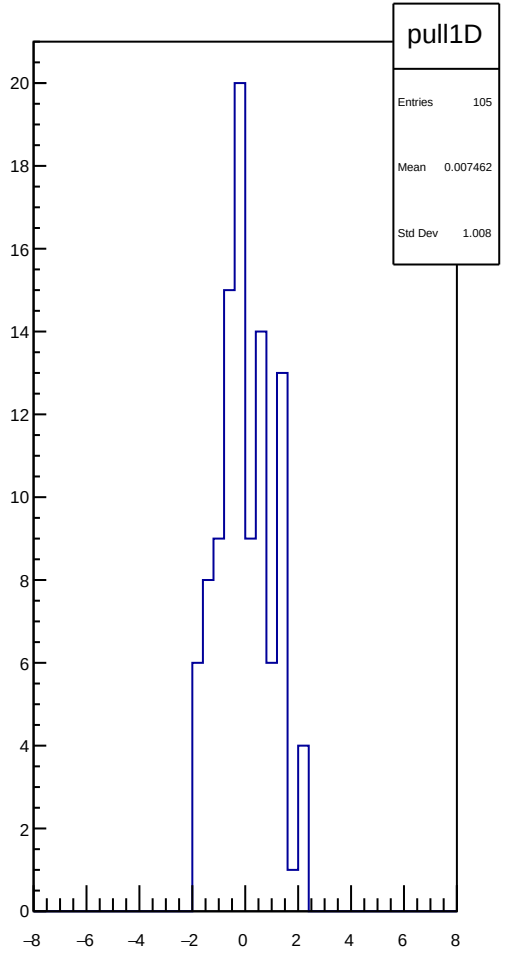

asym_us_dd_at2lr_dd_avg_cor_correction_rms vs run
χ^2 / ndf 2.141e+05 / 104
p0 2122 ± 1.567
5000
4500
4000
3500
3000
2500
2000
1500
1000

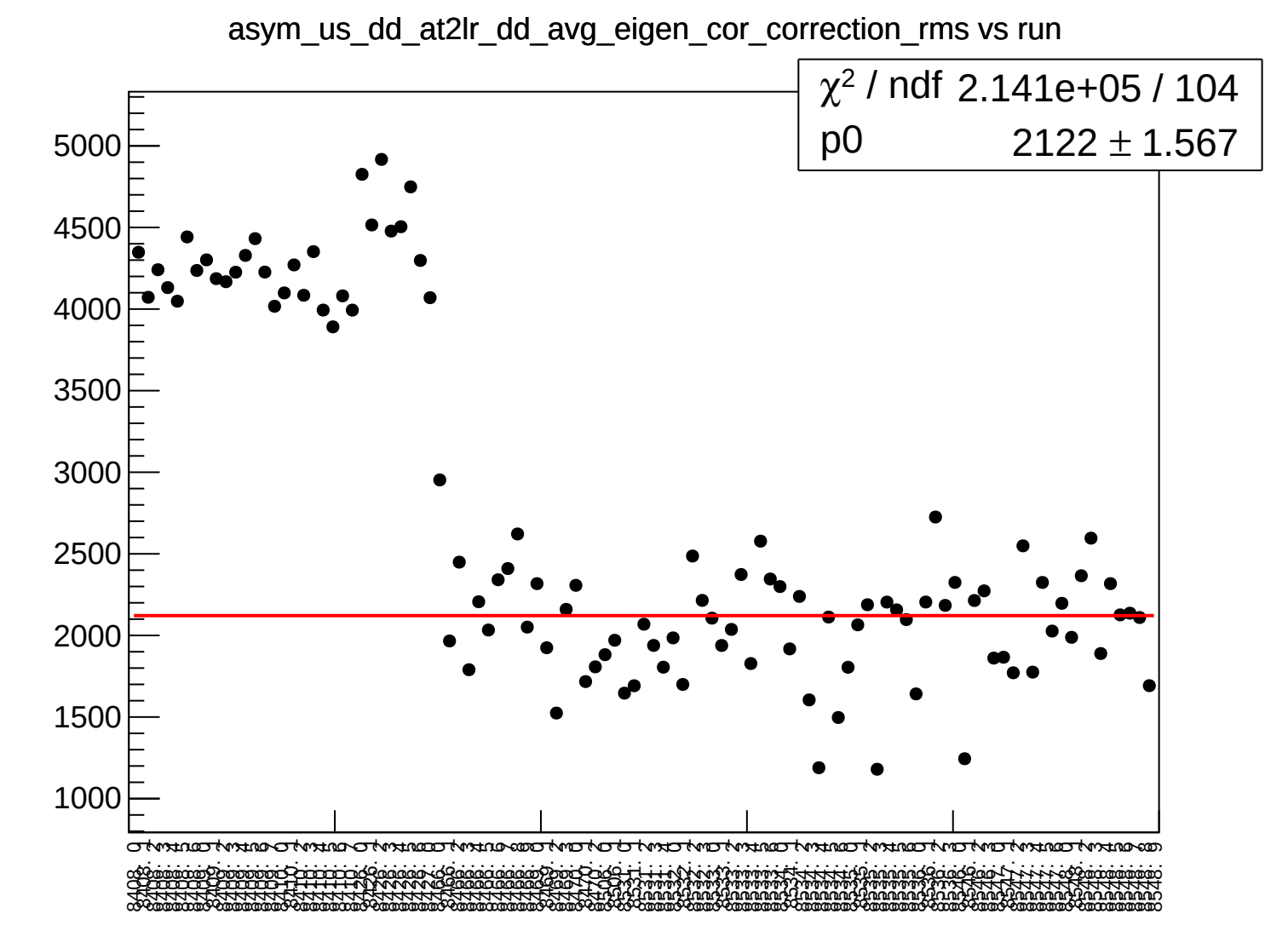

eigen_cor_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ^2 / ndf 60.29 / 103
p0 −1106 ± 3934
1000
500
0
−500
−1000
pull
Entries 104
Mean 24.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

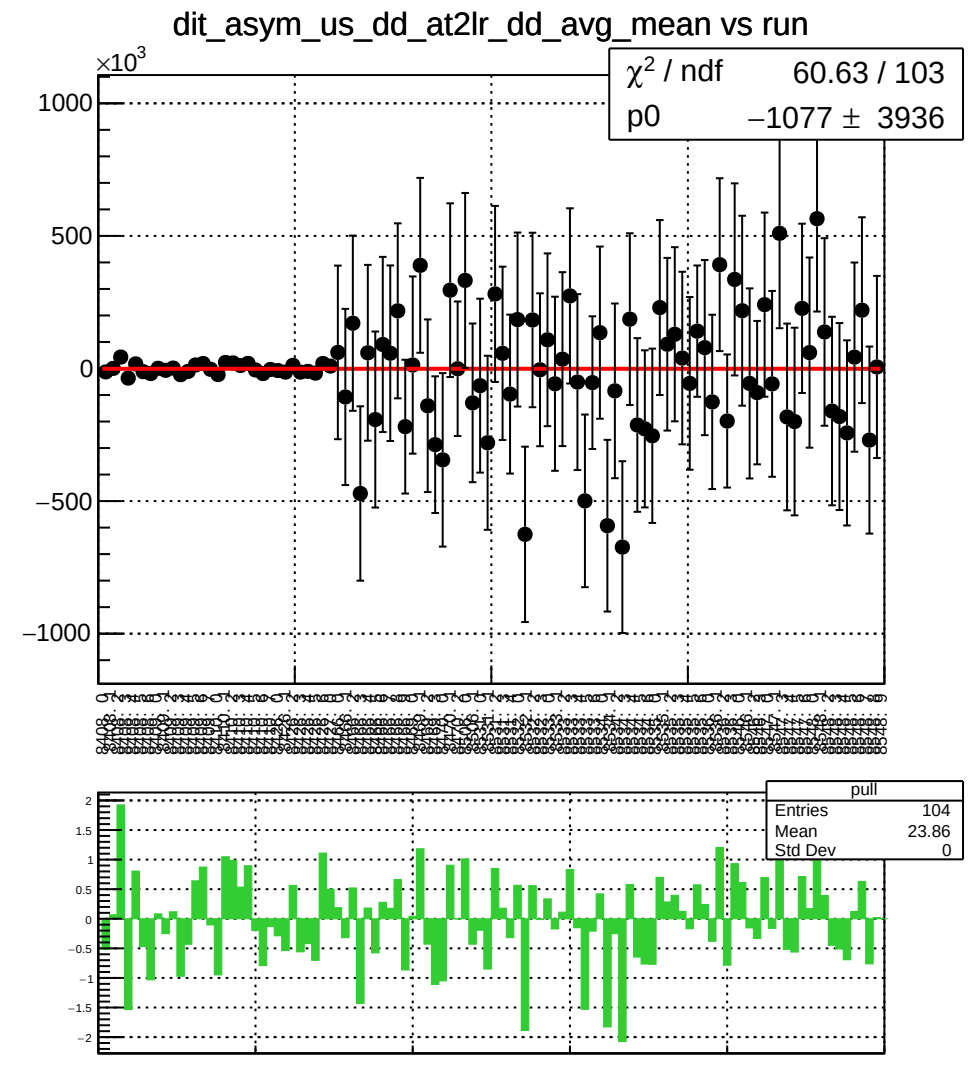

pull1D
Entries 104
Mean −0.02565
Std Dev 0.7609
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

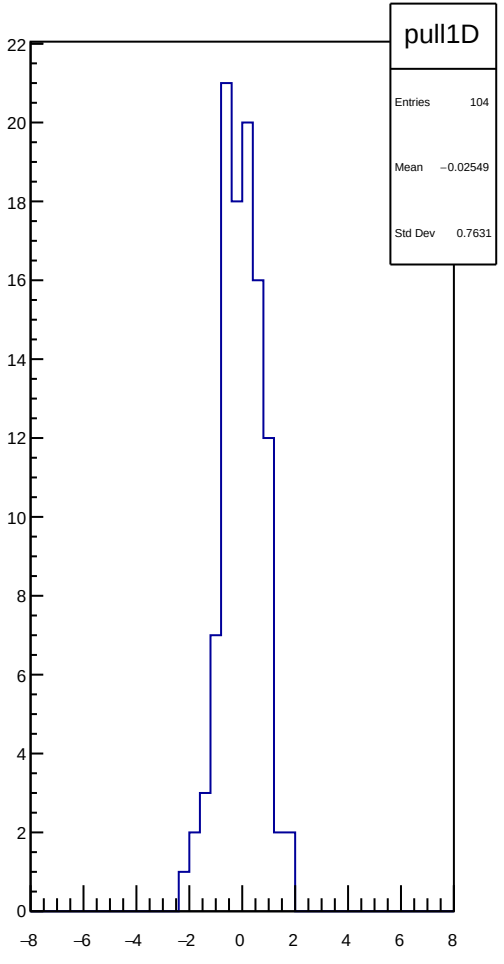

eigen_cor_asym_us_dd_at2lr_dd_avg_rms vs run
χ^2 / ndf 1.239e+06 / 104
p0 2499 ± 2.781
35000
30000
25000
20000
15000
10000
5000

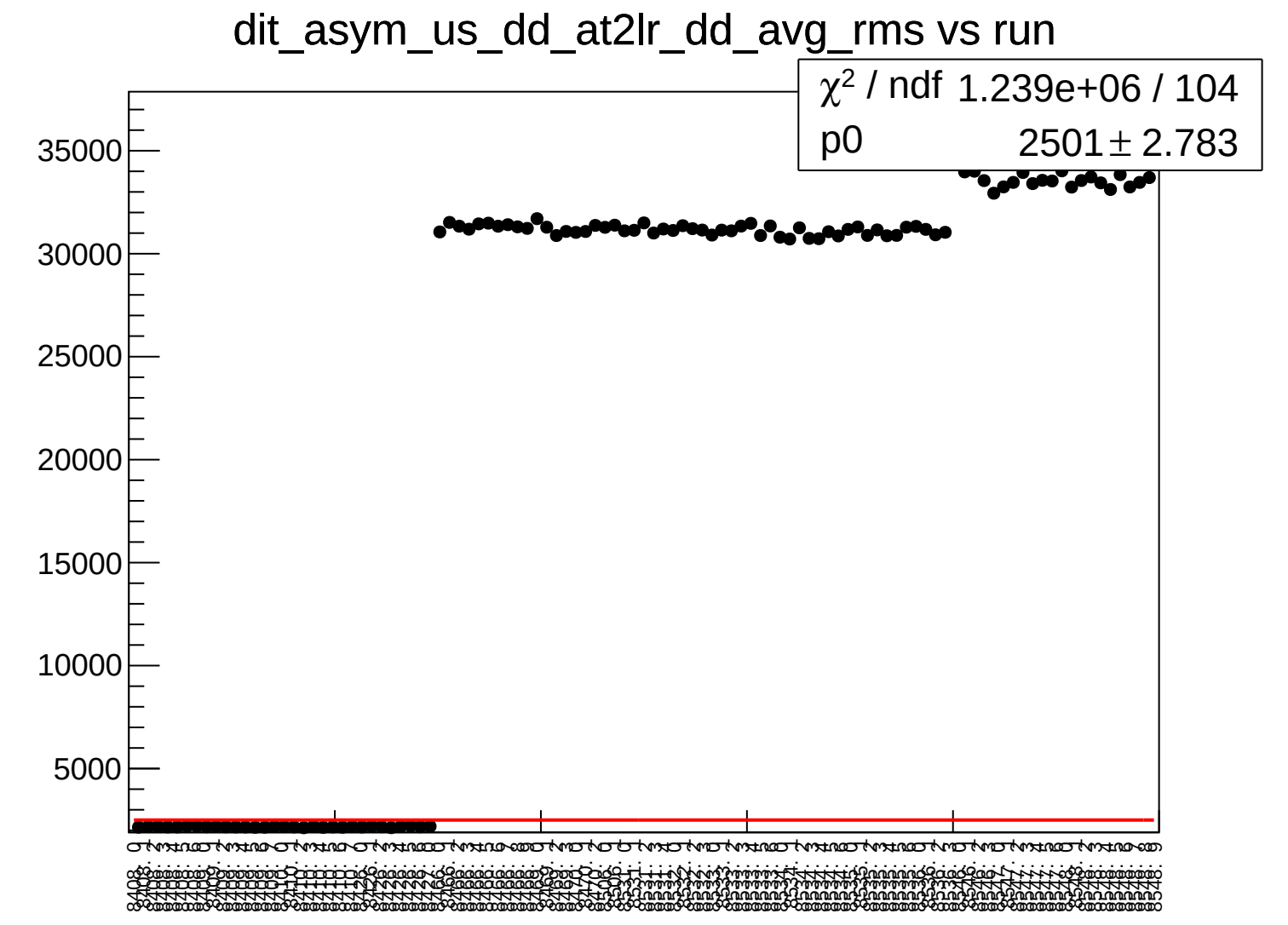

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 106.7 / 104
p0 −7285 ± 2217
150
100
50
0
−50
−100
pull
Entries 105
Mean −104.1
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

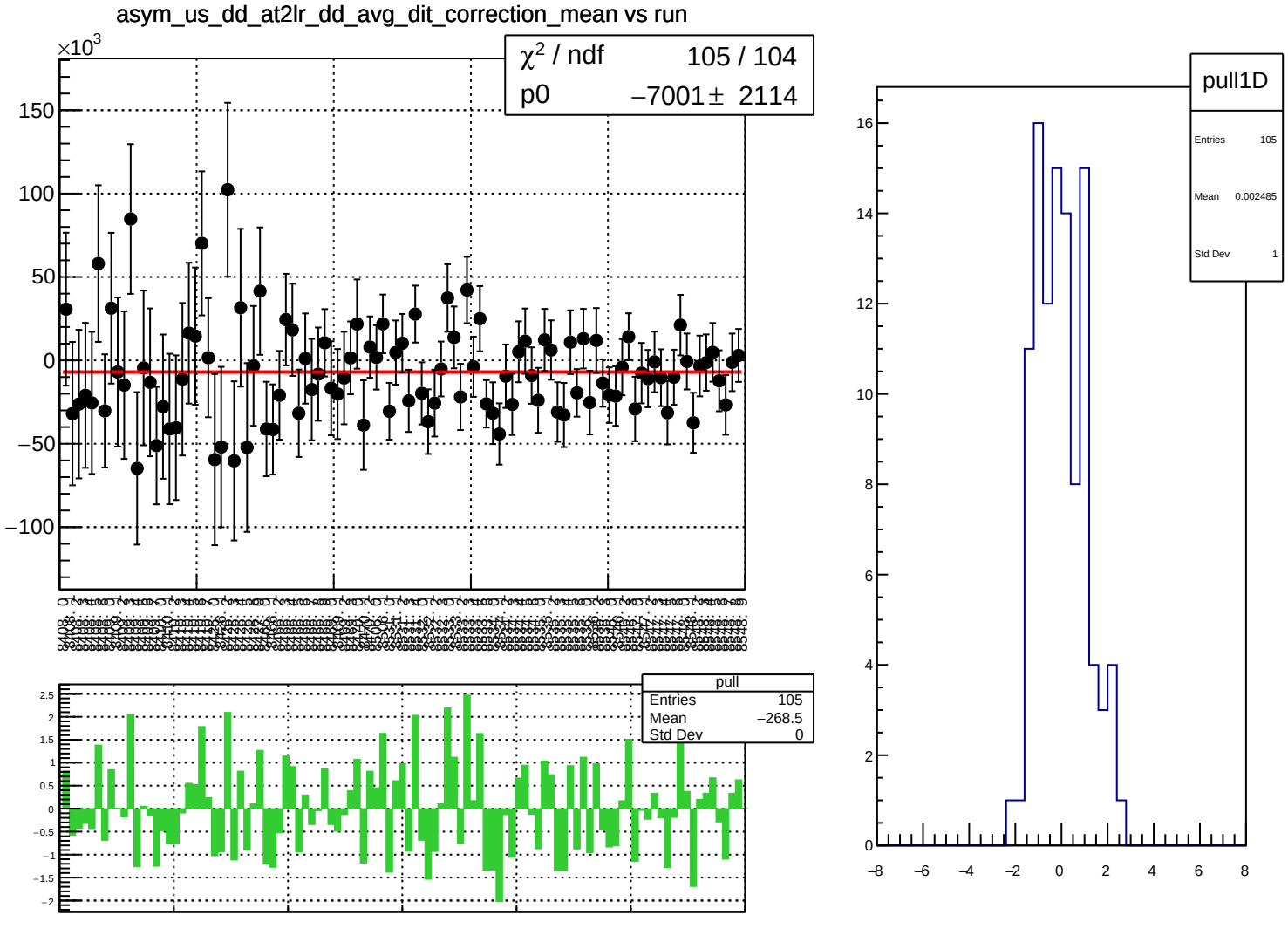

pull1D
Entries 105
Mean 0.007462
Std Dev 1.008
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

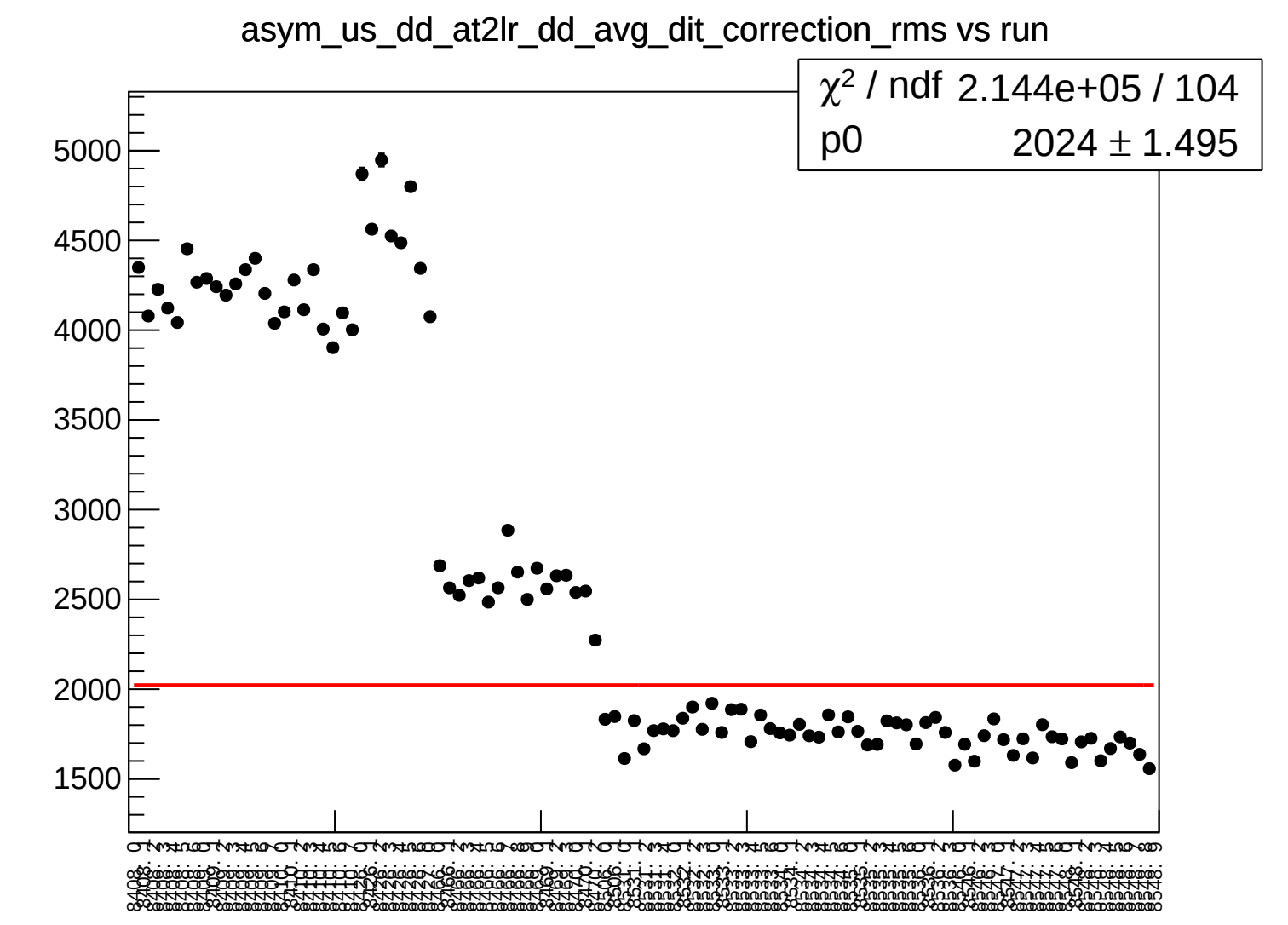

asym_us_dd_at2lr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.141e+05 / 104
p0 2122 ± 1.567
5000
4500
4000
3500
3000
2500
2000
1500
1000

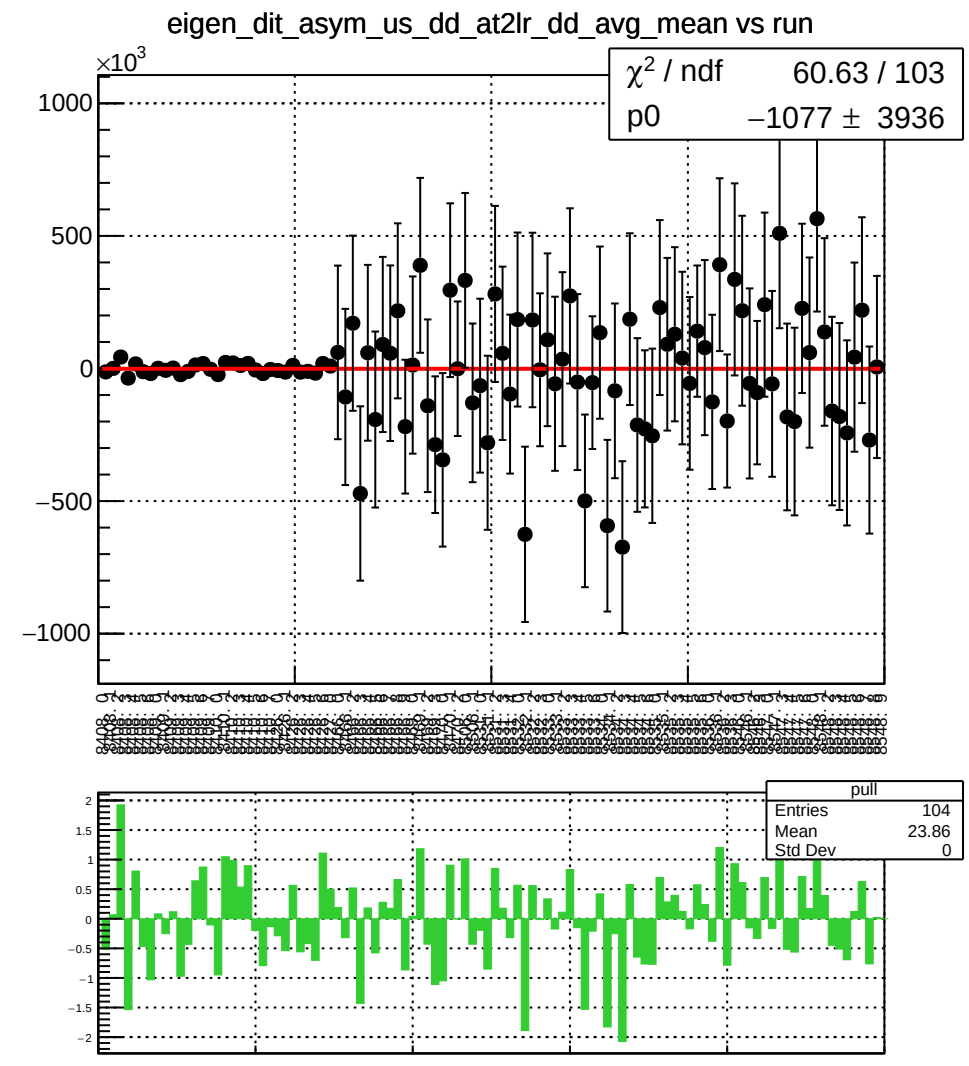

dit_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ² / ndf 60.63 / 103
p0 −1077 ± 3936
1000
500
0
−500
−1000
pull
Entries 104
Mean 23.86
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

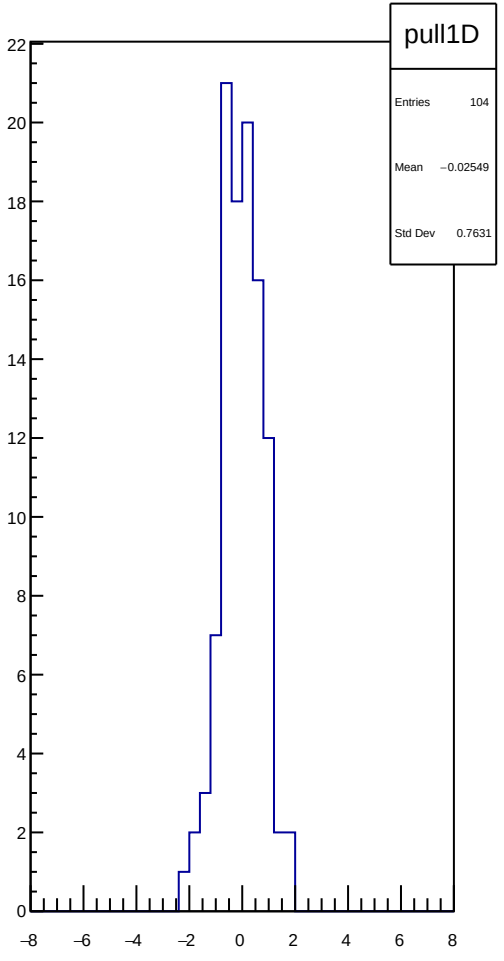

pull1D
Entries 104
Mean −0.02549
Std Dev 0.7631
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

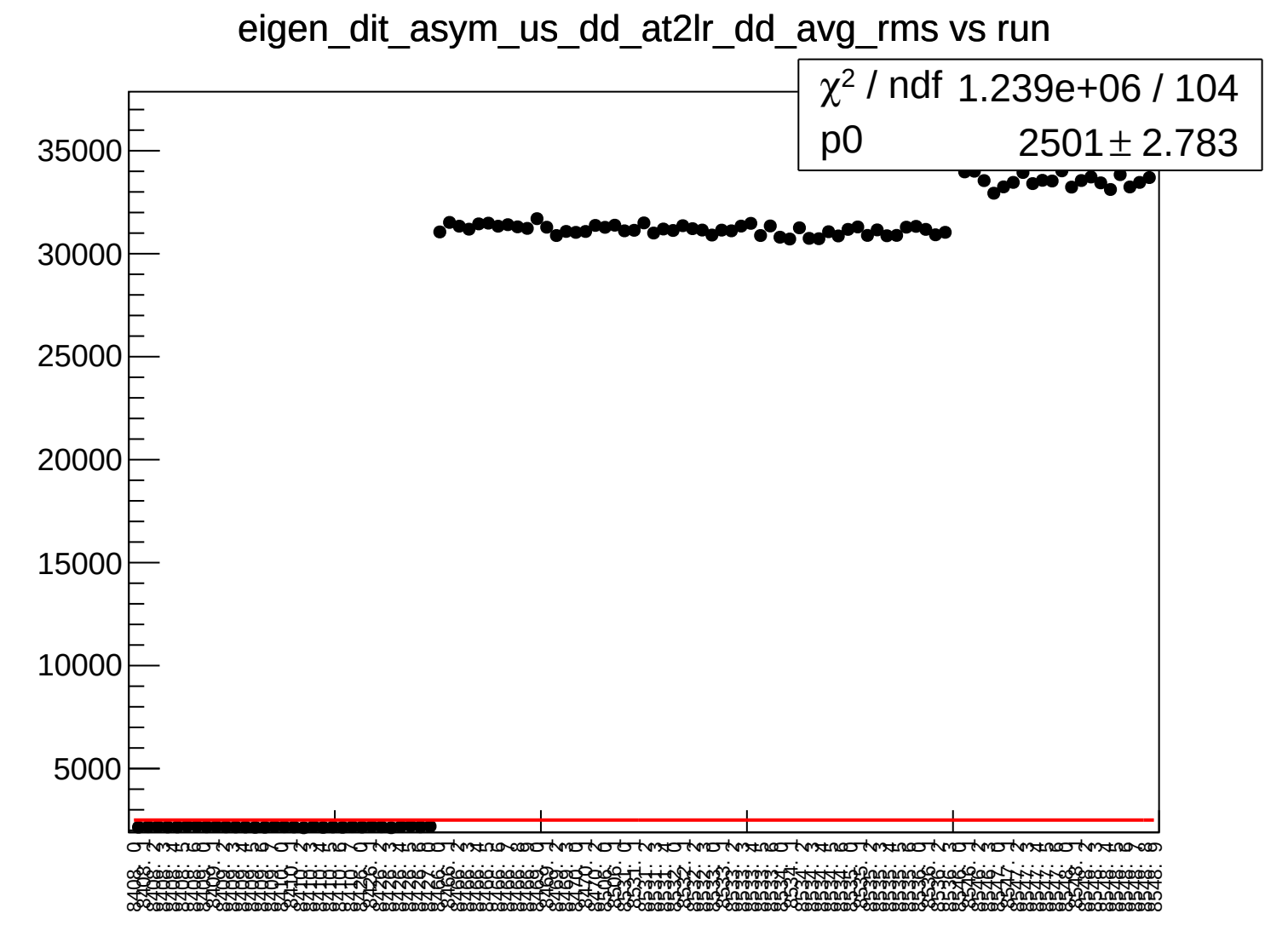

dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 1.239e+06 / 104
p0 2501 ± 2.783
35000
30000
25000
20000
15000
10000
5000

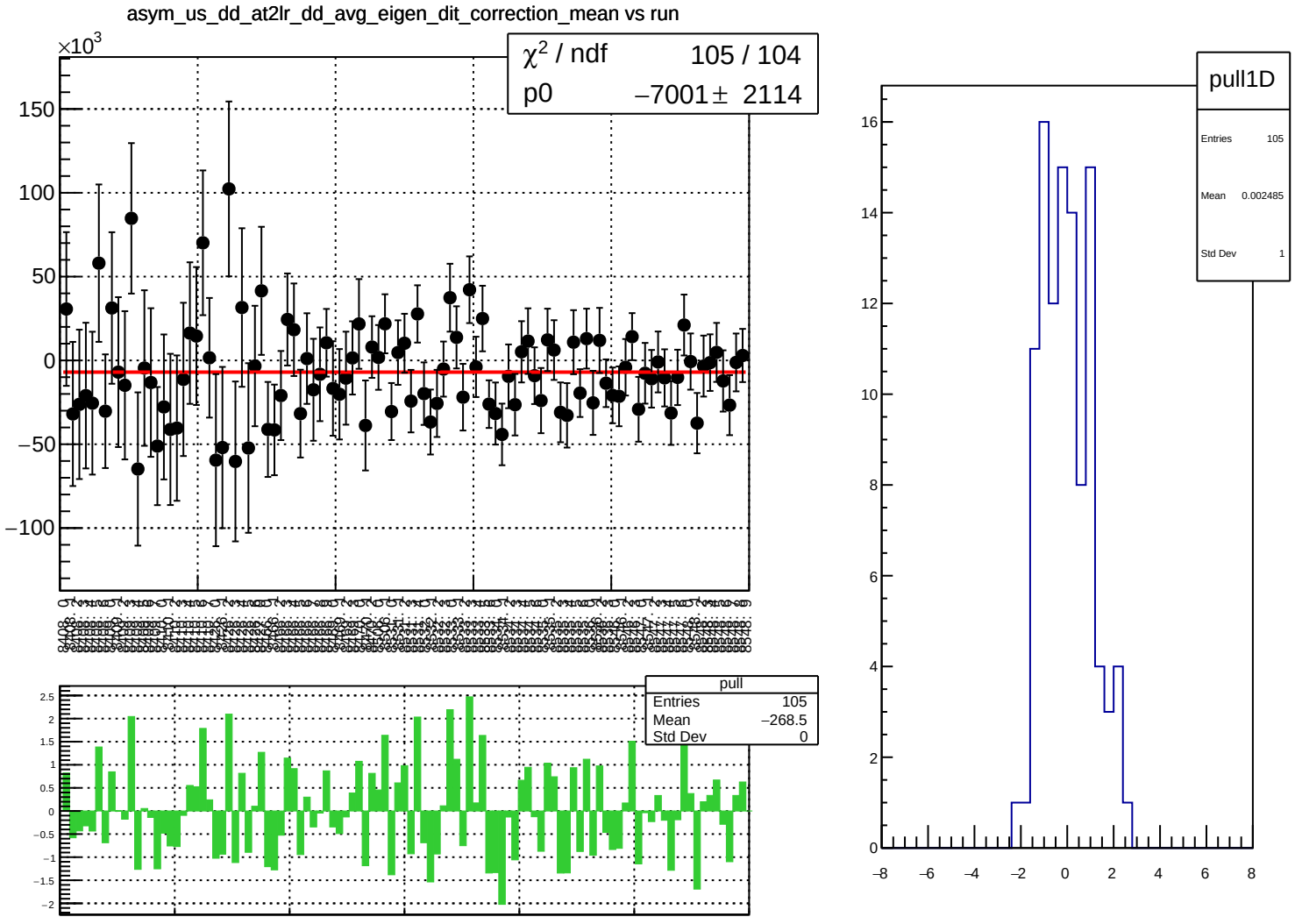

asym_us_dd_at2lr_dd_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 105 / 104
p0 −7001 ± 2114
150
100
50
0
−50
−100
pull
Entries 105
Mean −268.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 105
Mean 0.002485
Std Dev 1
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

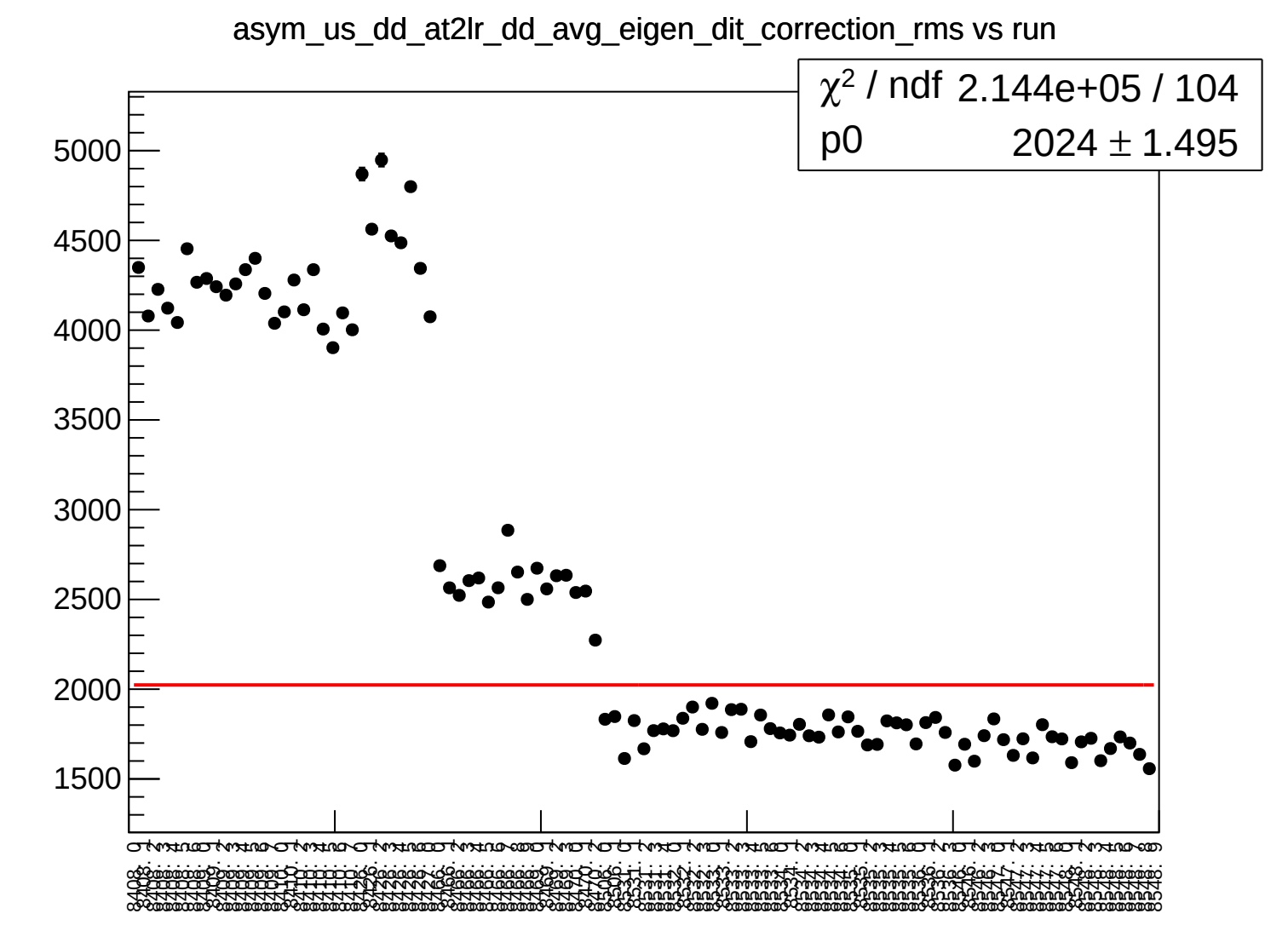

asym_us_dd_at2lr_dd_avg_dit_correction_rms vs run
χ² / ndf 2.144e+05 / 104
p0 2024 ± 1.495
5000
4500
4000
3500
3000
2500
2000
1500

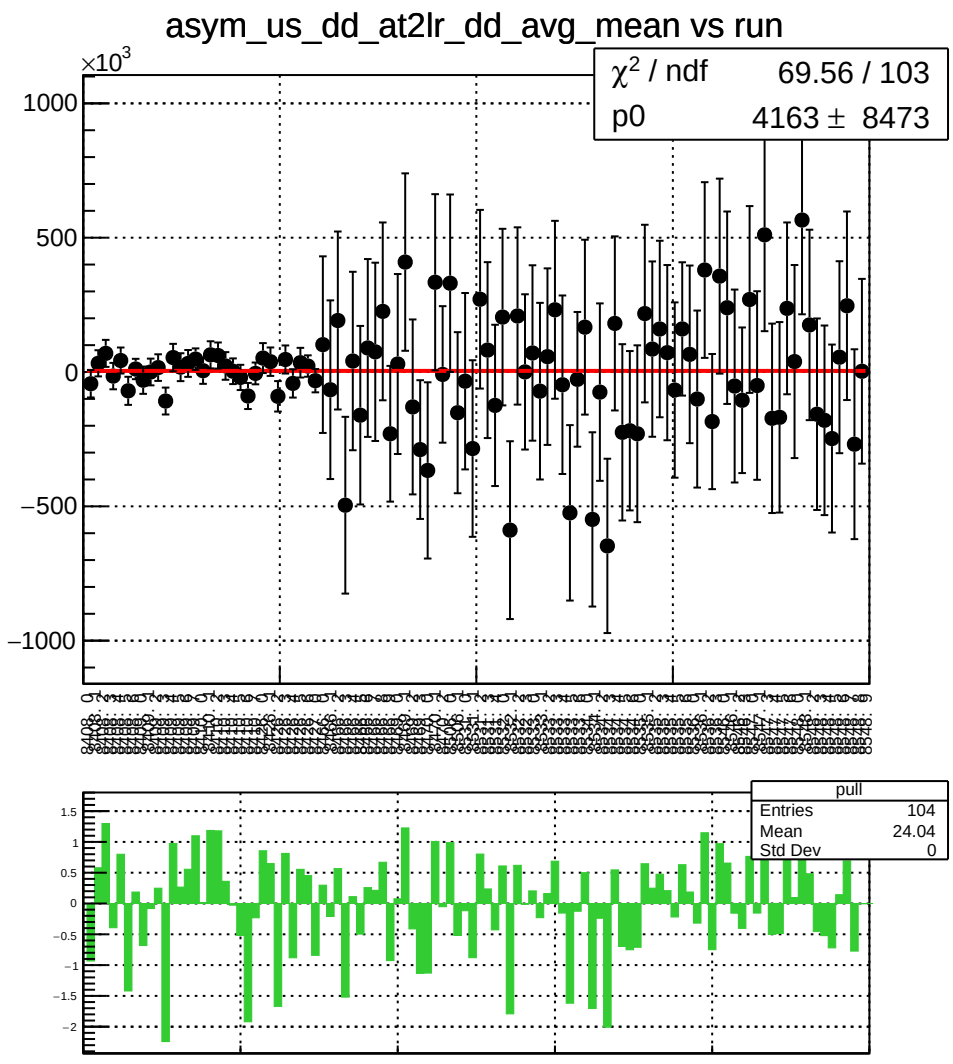

eigen_dit_asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ^2 / ndf 60.63 / 103
p0 −1077 ± 3936
1000
500
0
−500
−1000
pull
Entries 104
Mean 23.86
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

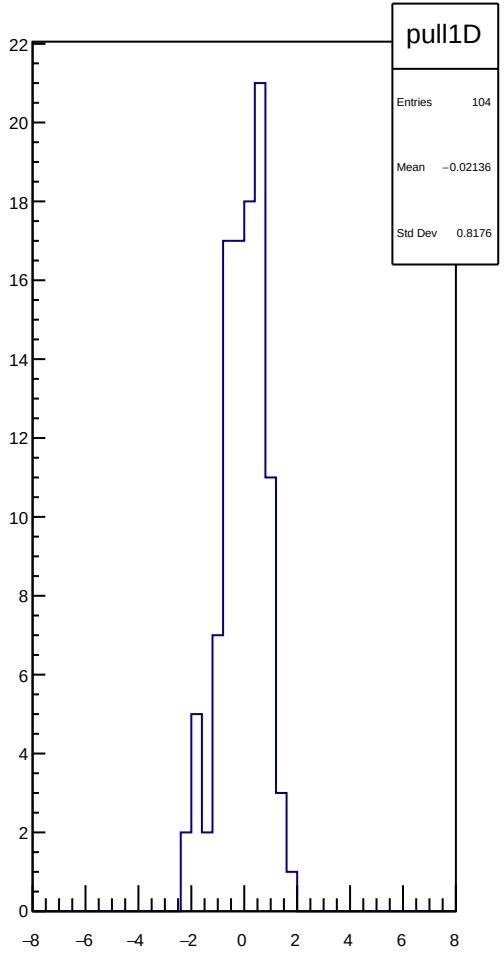

pull1D
Entries 104
Mean −0.02549
Std Dev 0.7631
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

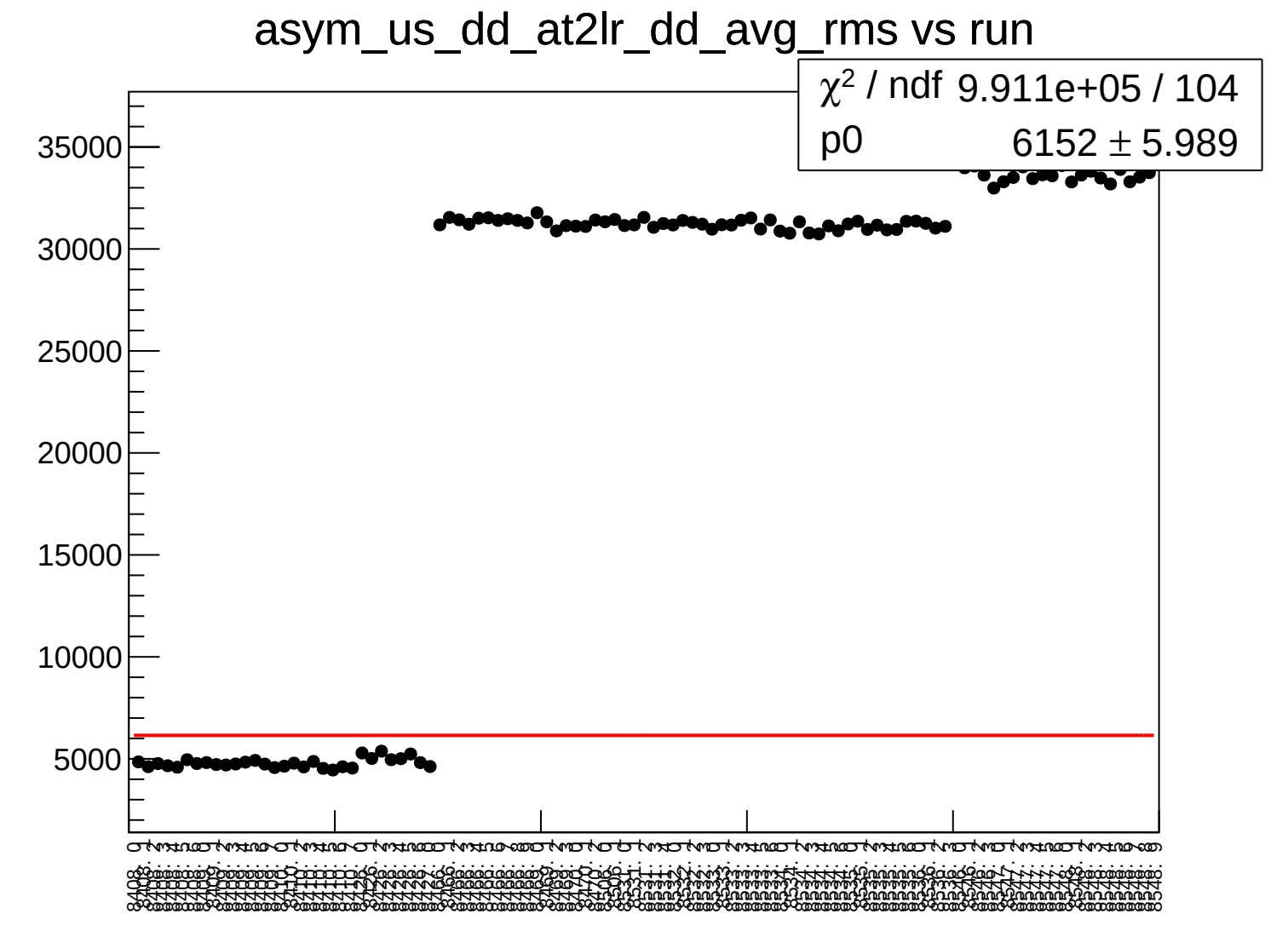

eigen_dit_asym_us_dd_at2lr_dd_avg_rms vs run
χ^2 / ndf 1.239e+06 / 104
p0 2501 ± 2.783
35000
30000
25000
20000
15000
10000
5000

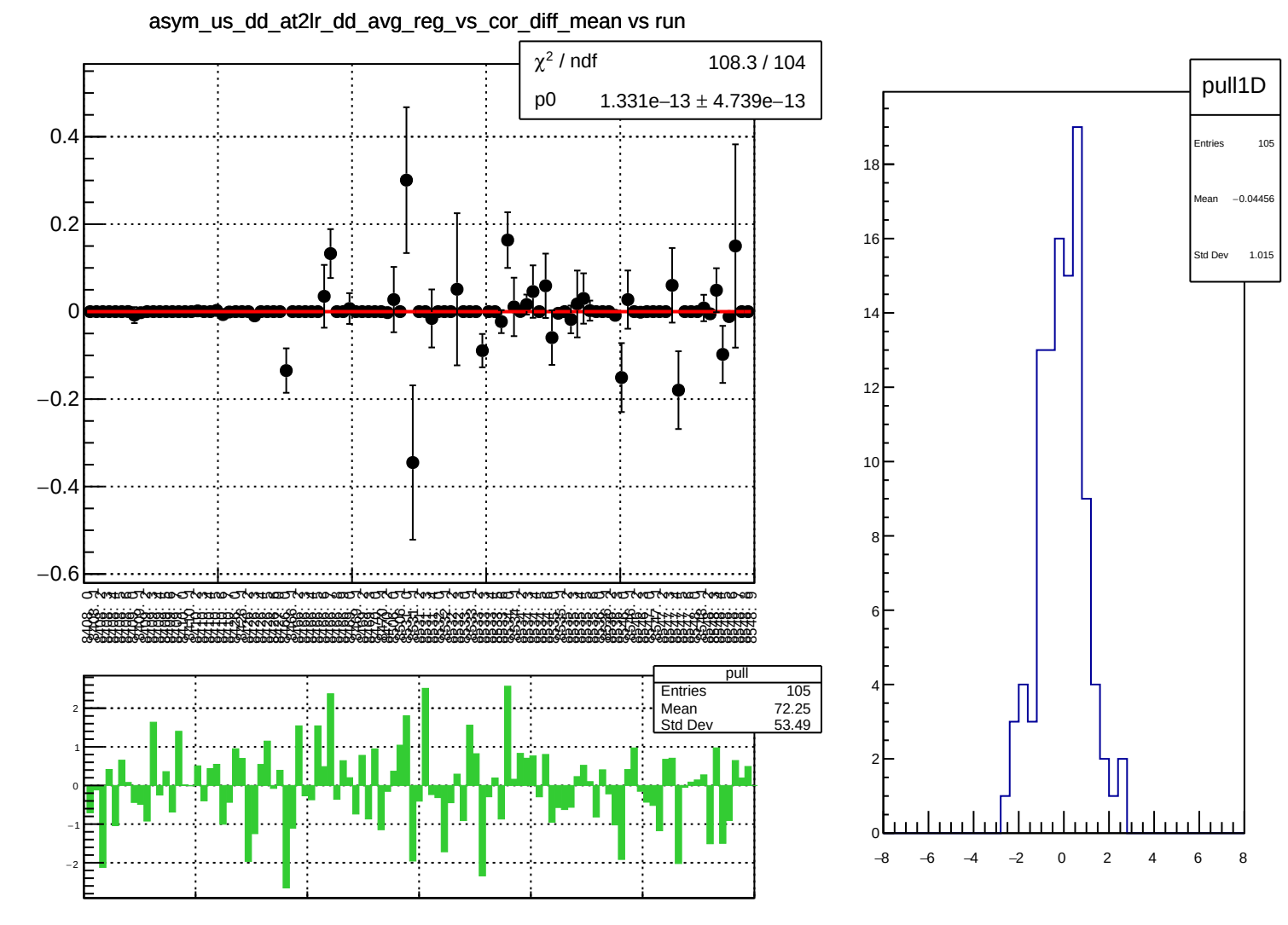

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 105 / 104
p0 −7001 ± 2114
150
100
50
0
−50
−100
pull
Entries 105
Mean −268.5
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 105
Mean 0.002485
Std Dev 1
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

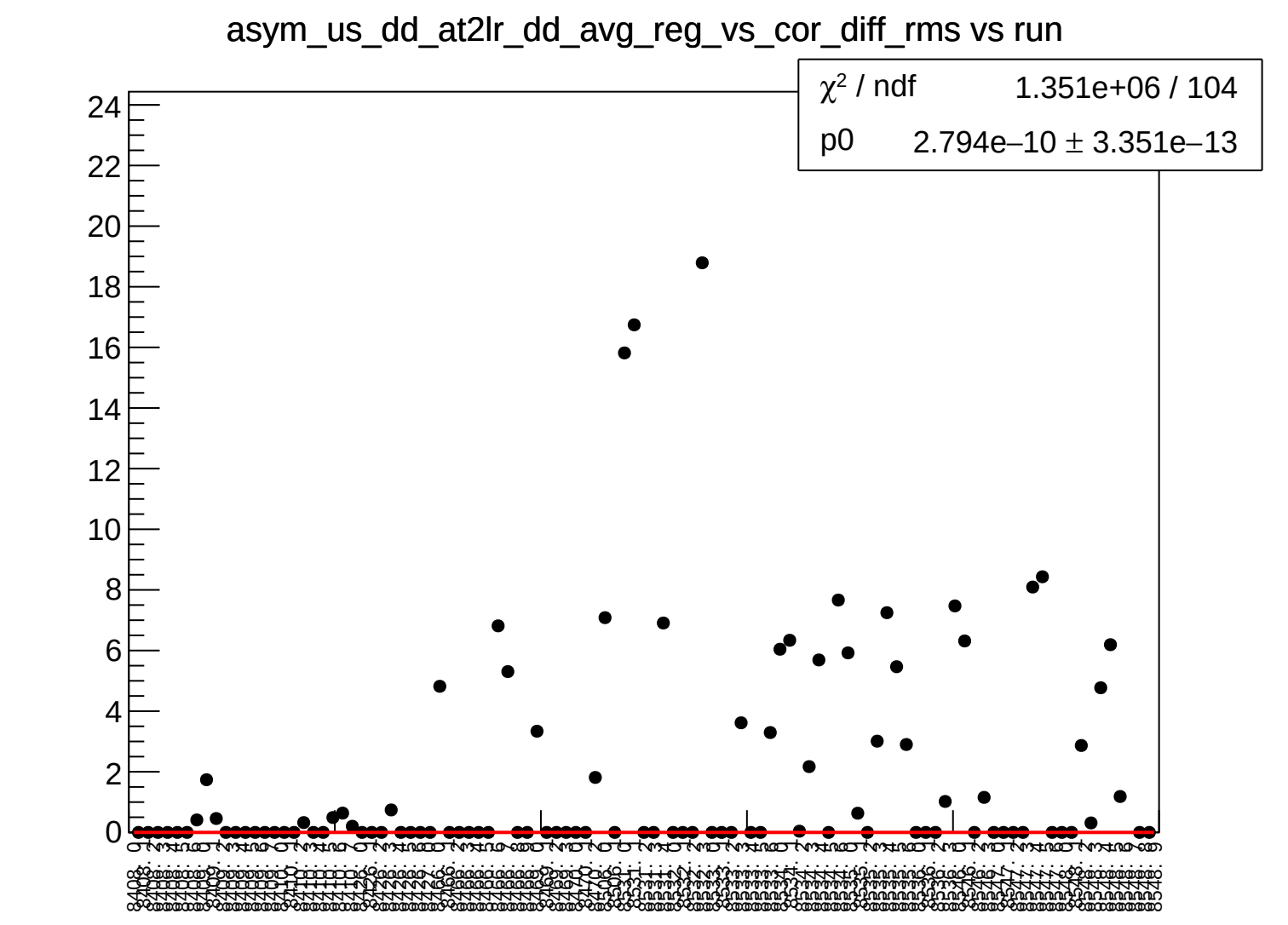

asym_us_dd_at2lr_dd_avg_eigen_dit_correction_rms vs run
χ^2 / ndf 2.144e+05 / 104
p0 2024 ± 1.495
5000
4500
4000
3500
3000
2500
2000
1500

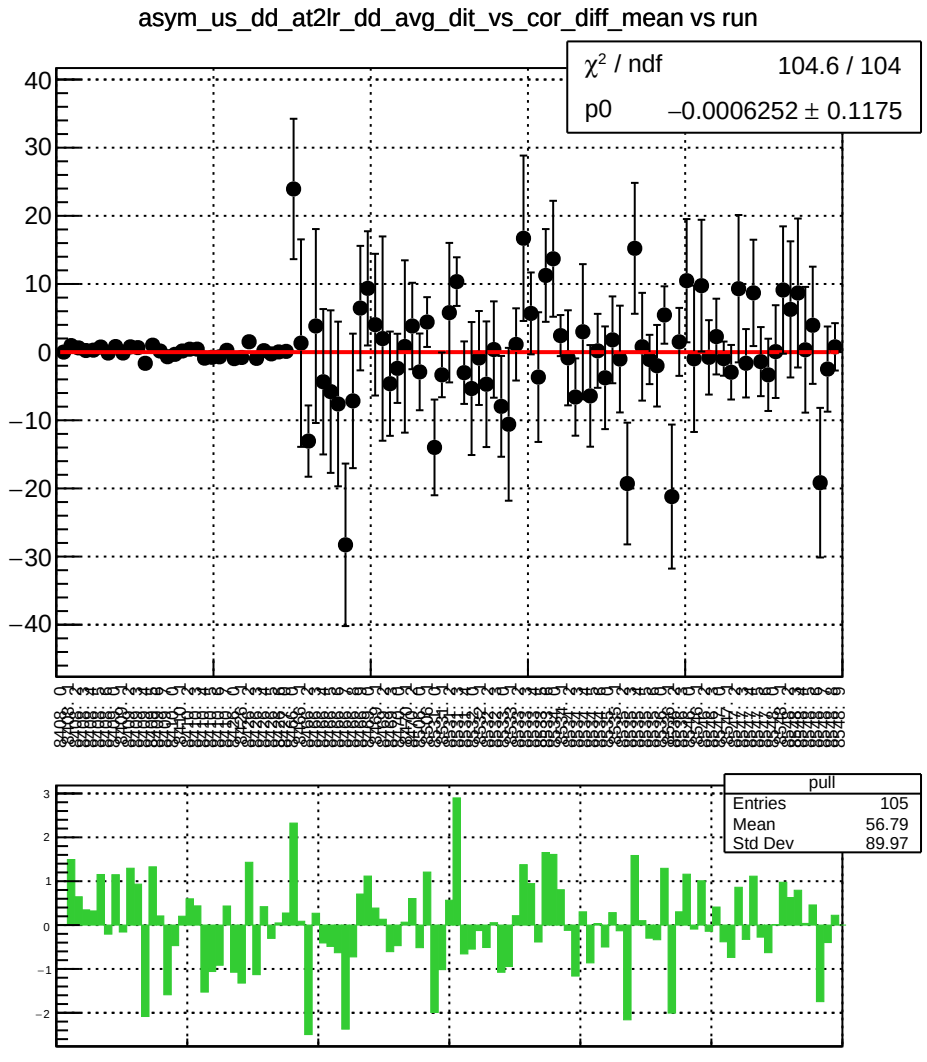

asym_us_dd_at2lr_dd_avg_mean vs run
×10^3
χ^2 / ndf 69.56 / 103
p0 4163 ± 8473
1000
500
0
−500
−1000
pull
Entries 104
Mean 24.04
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

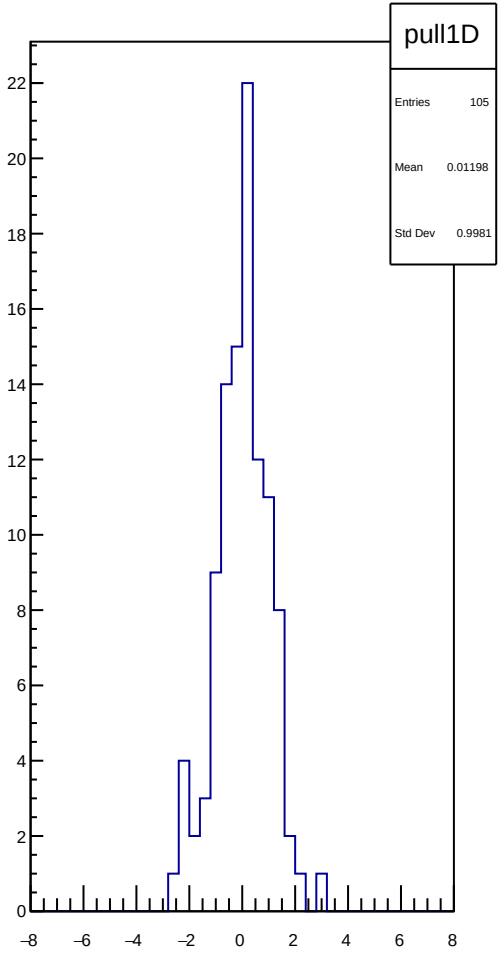

pull1D
Entries 104
Mean −0.02136
Std Dev 0.8176
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

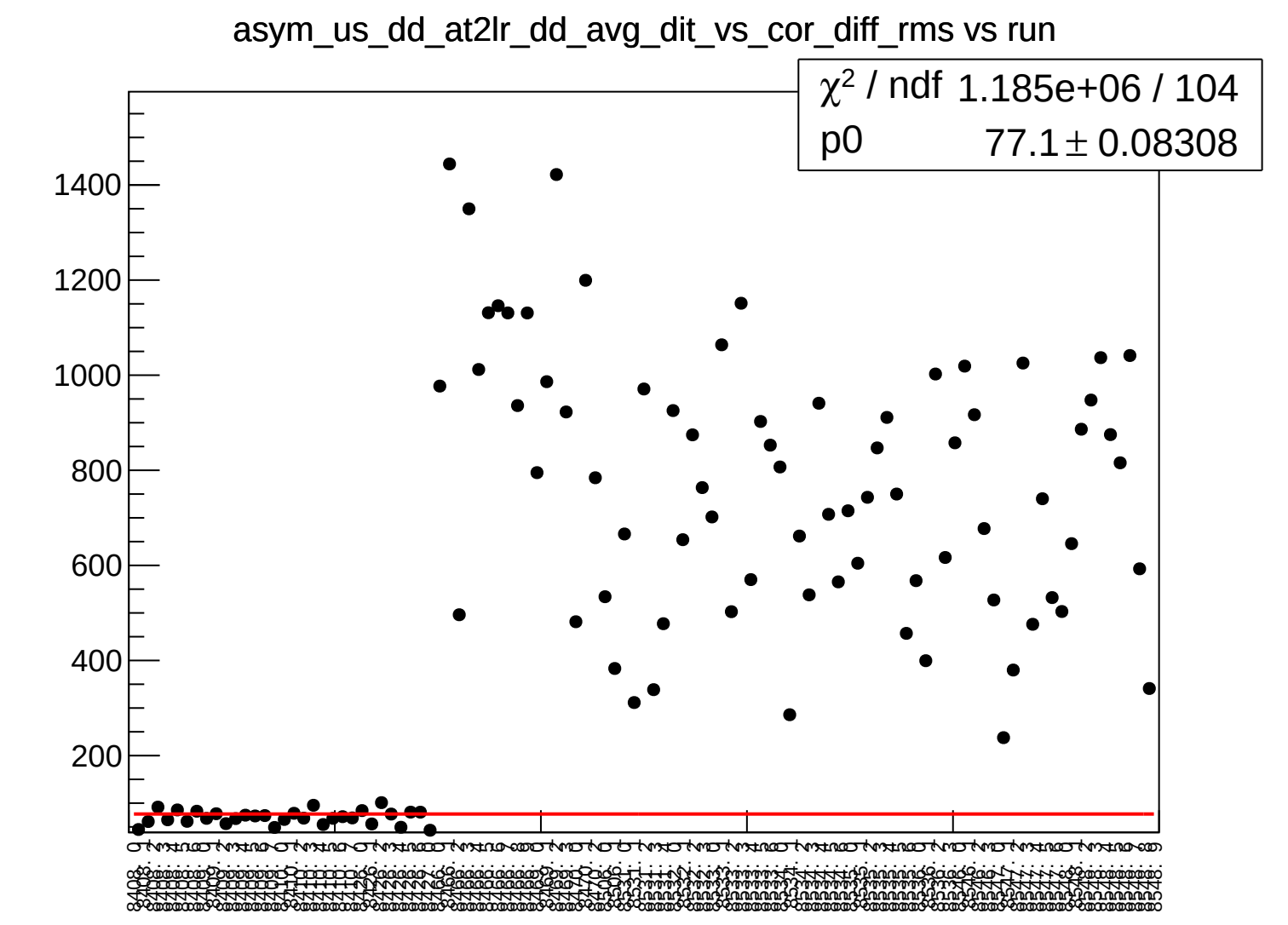

asym_us_dd_at2lr_dd_avg_rms vs run
χ² / ndf 9.911e+05 / 104
p0 6152 ± 5.989
35000
30000
25000
20000
15000
10000
5000

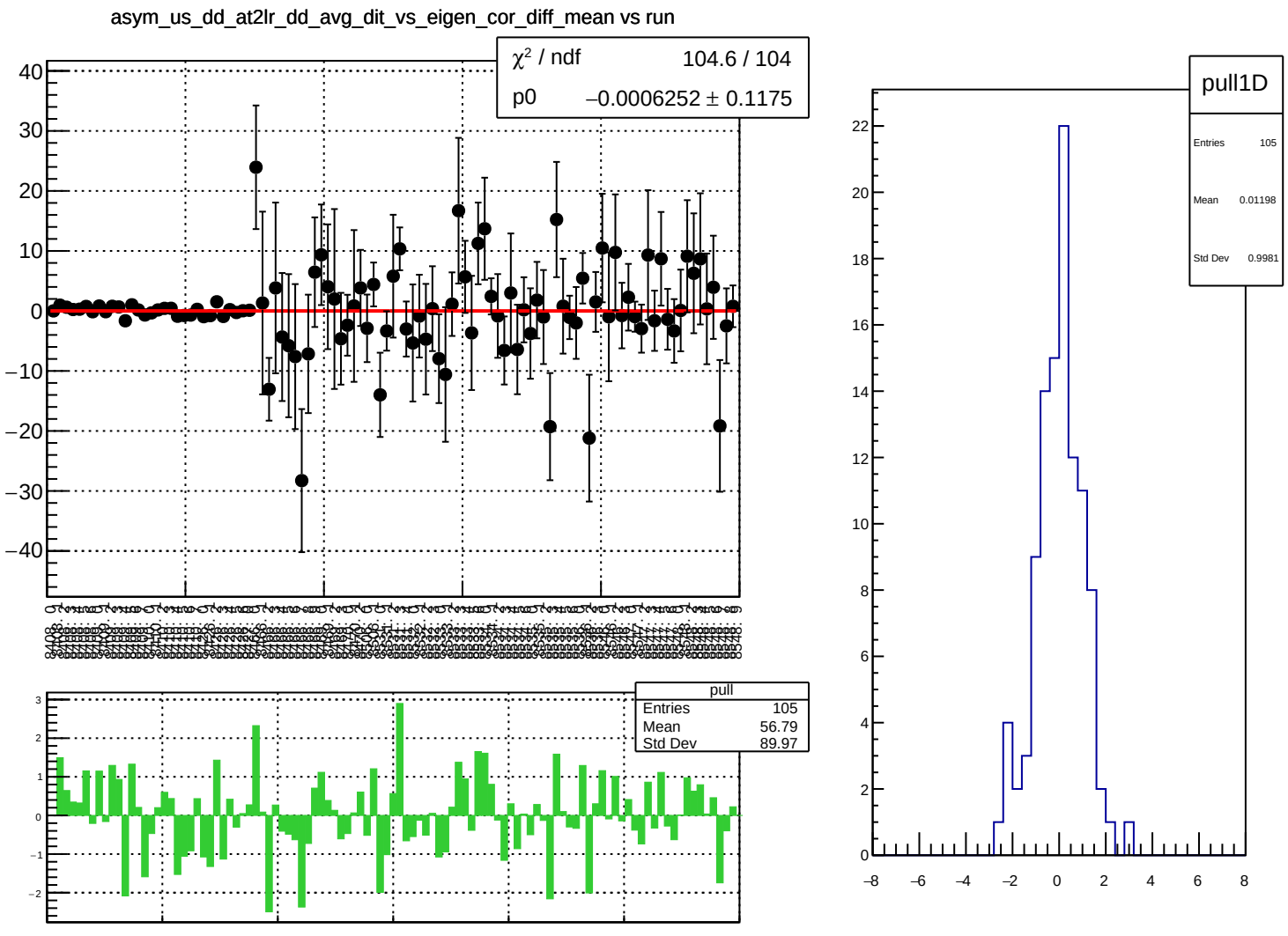

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 108.3 / 104
p0 1.331e−13 ± 4.739e−13
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 105
Mean 72.25
Std Dev 53.49
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.04456
Std Dev 1.015
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

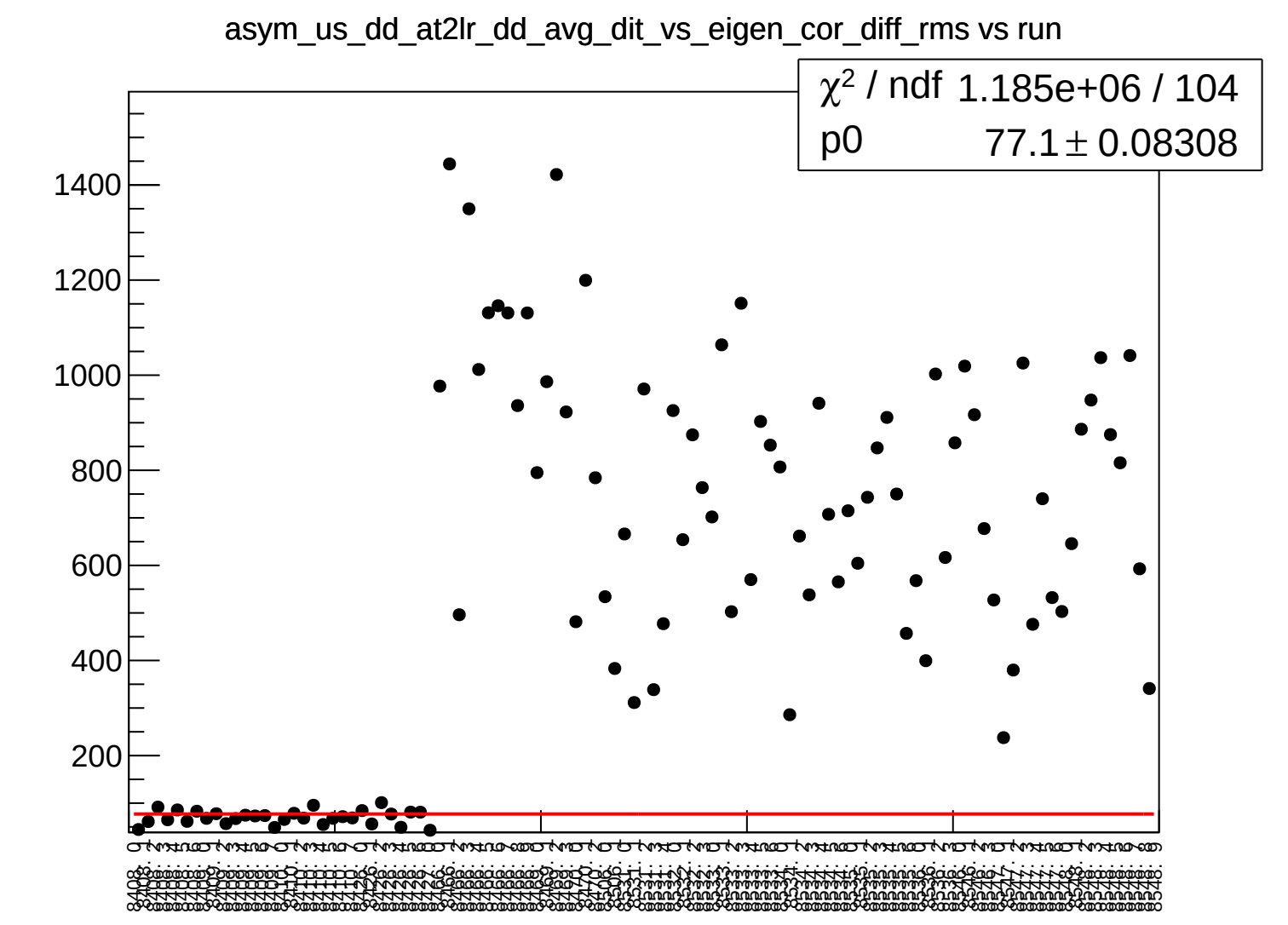

asym_us_dd_at2lr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.351e+06 / 104
p0 2.794e−10 ± 3.351e−13
24
22
20
18
16
14
12
10
8
6
4
2
0

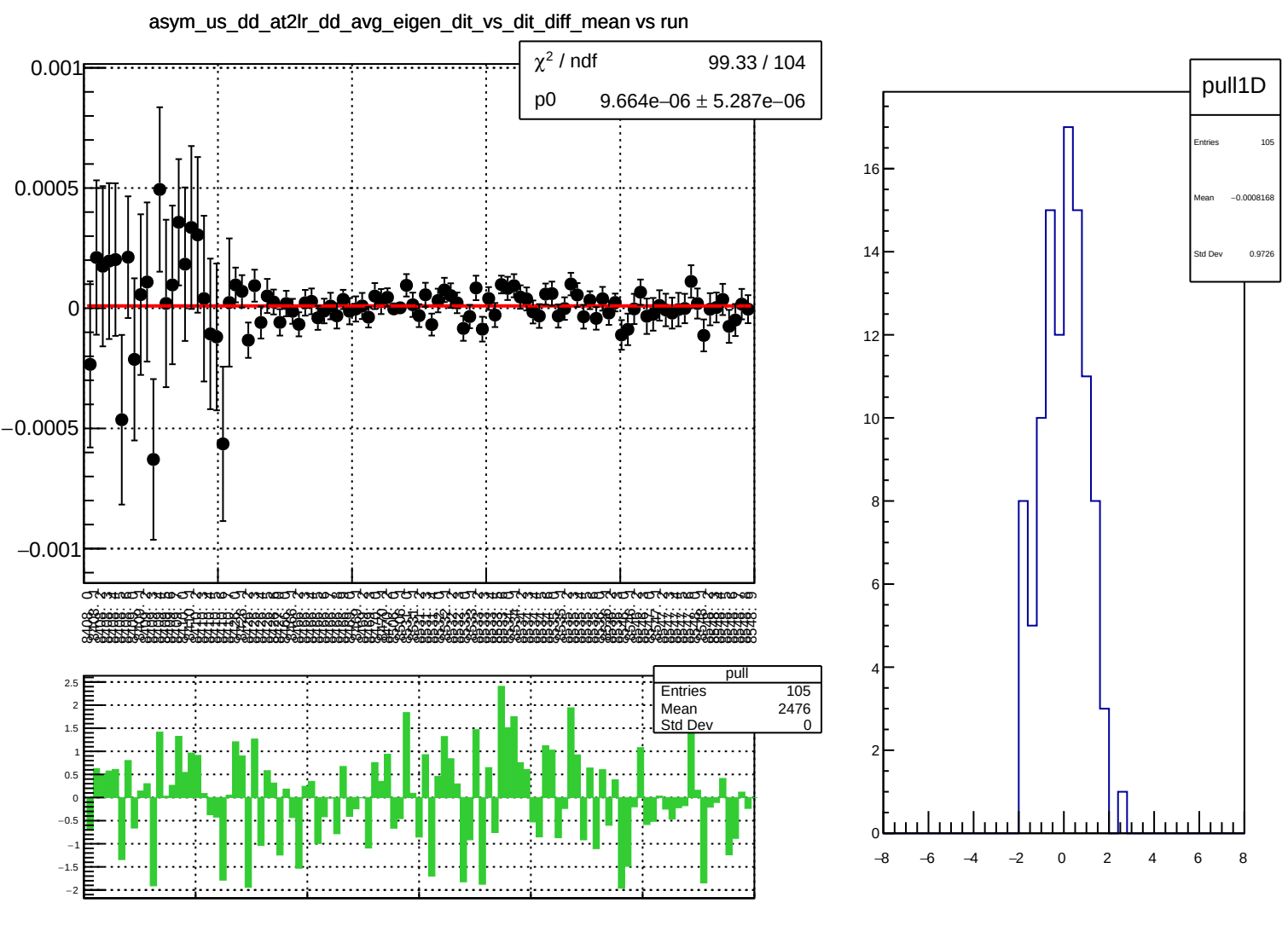

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 104.6 / 104
p0 −0.0006252 ± 0.1175
pull
Entries 105
Mean 56.79
Std Dev 89.97

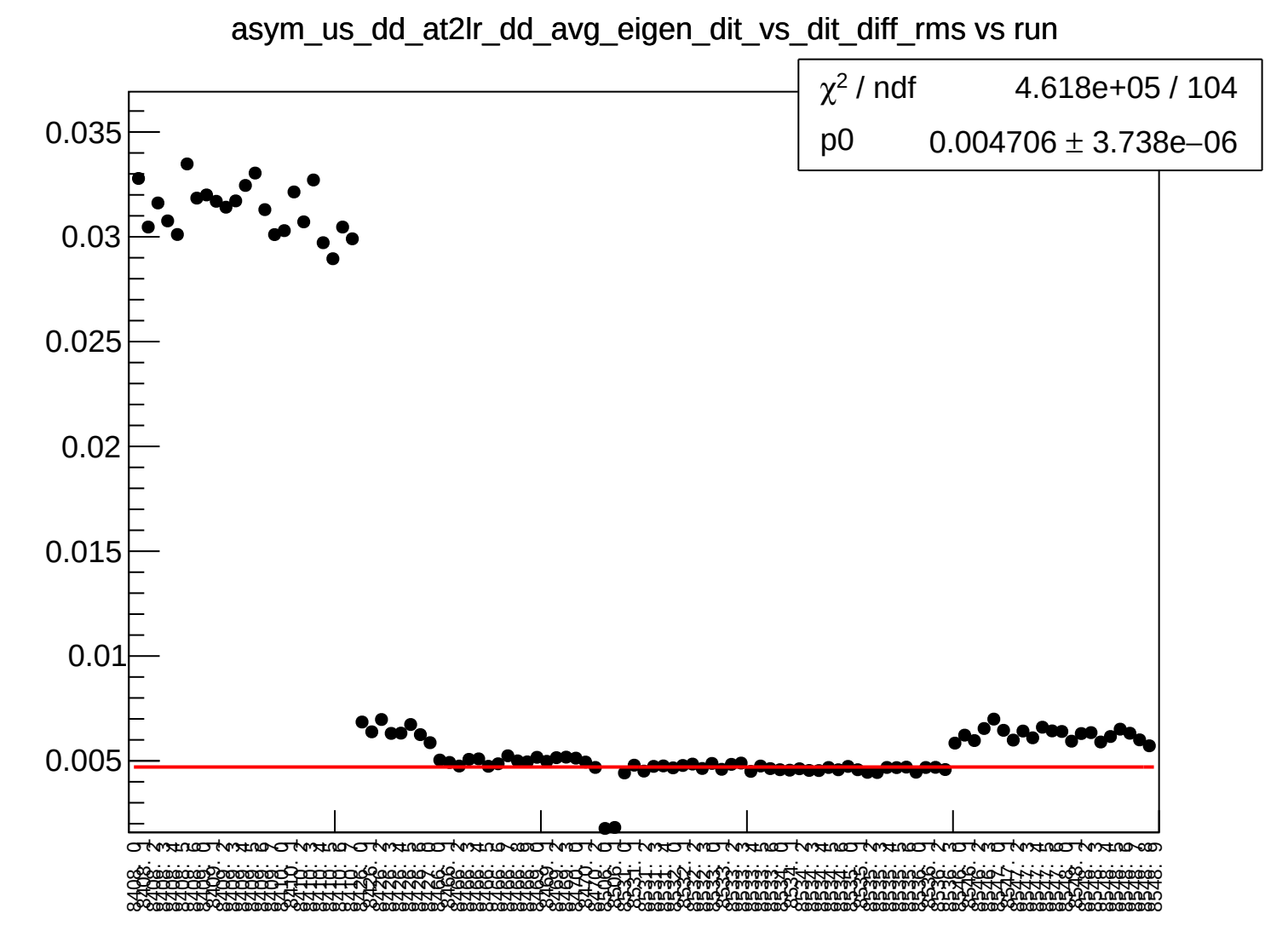

pull1D
Entries 105
Mean 0.01198
Std Dev 0.9981

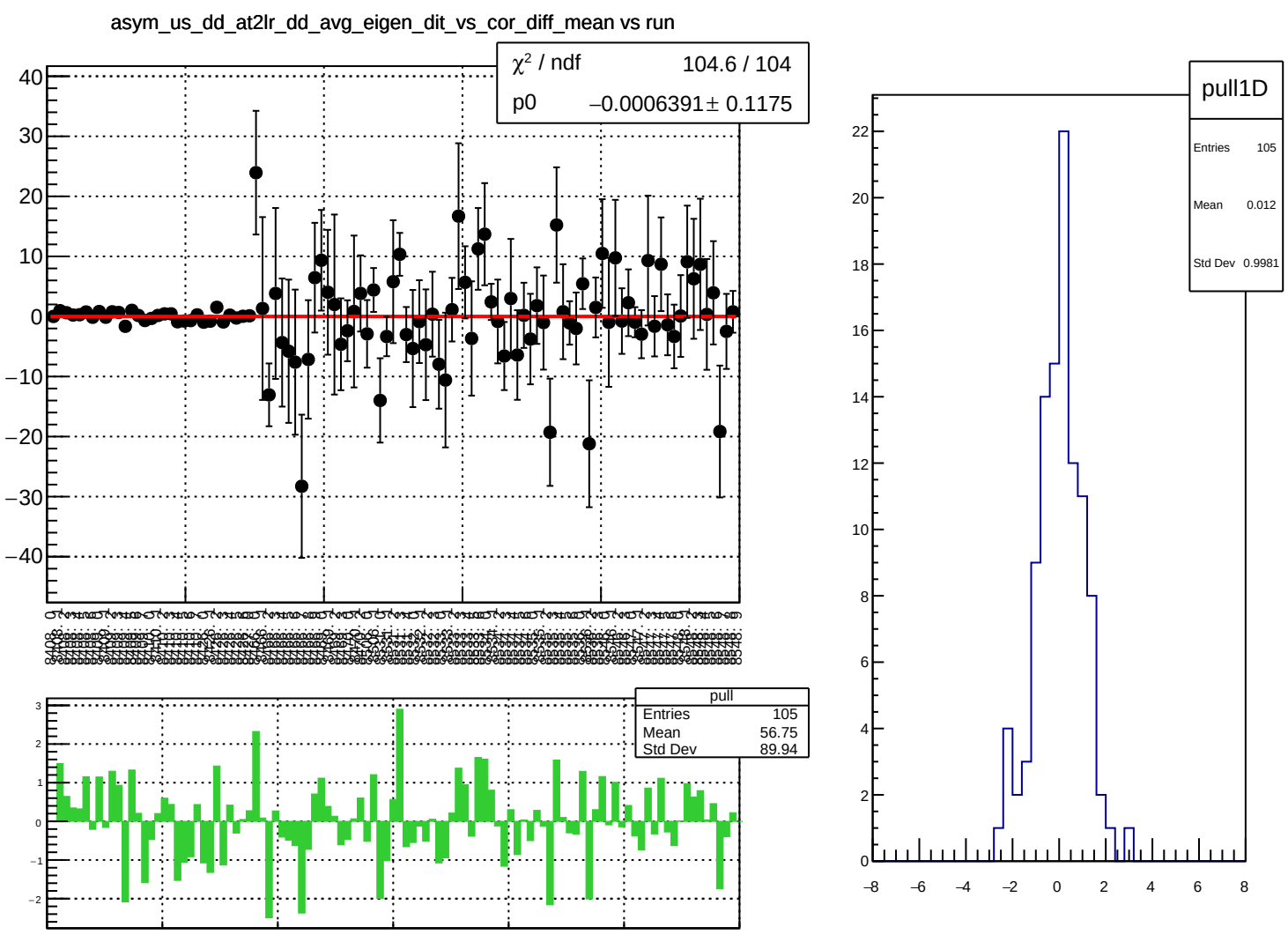

asym_us_dd_at2lr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.185e+06 / 104
p0 77.1 ± 0.08308
1400
1200
1000
800
600
400
200

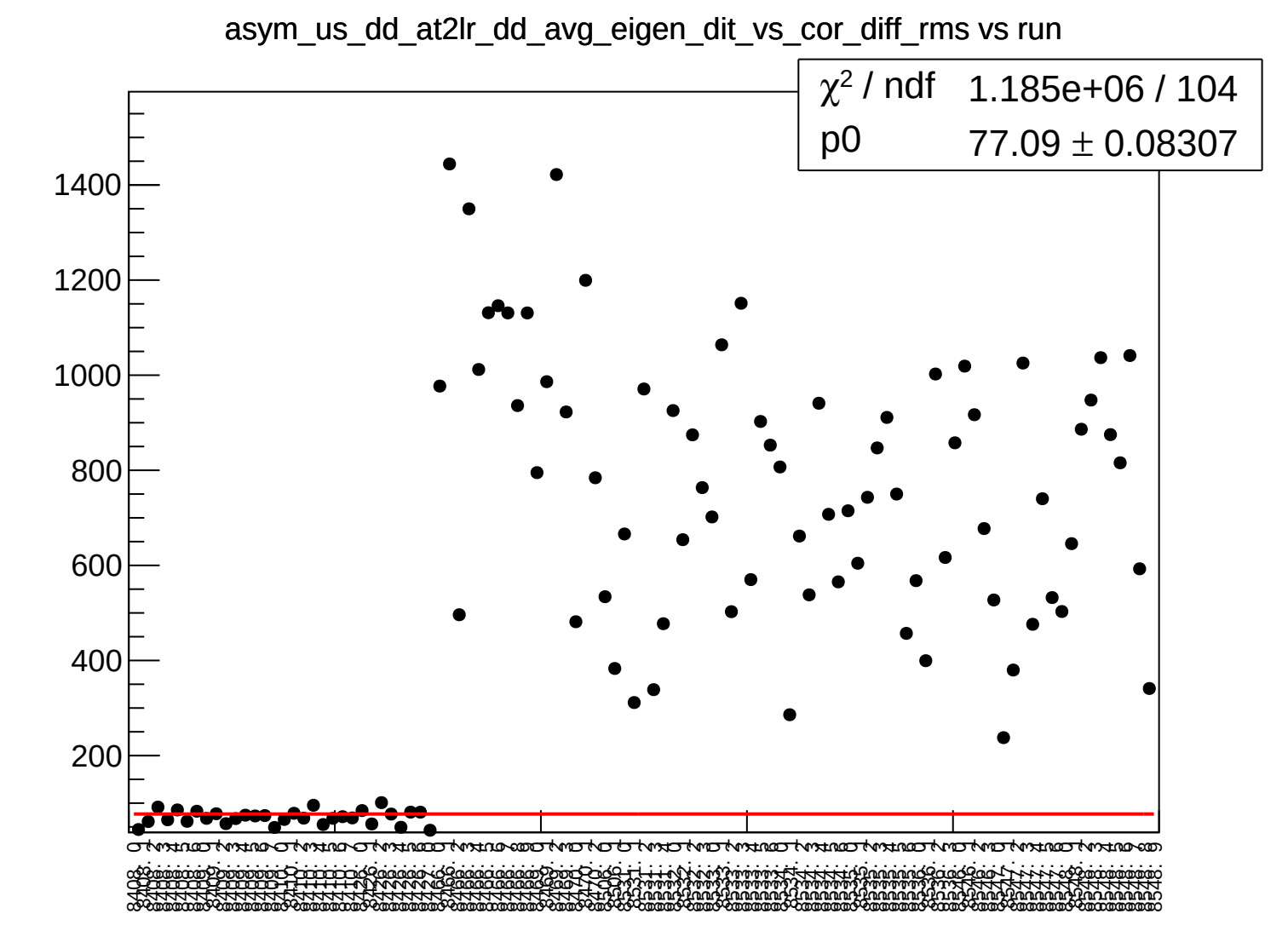

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.6 / 104
p0 −0.0006252 ± 0.1175
pull
Entries 105
Mean 56.79
Std Dev 89.97
pull1D
Entries 105
Mean 0.01198
Std Dev 0.9981

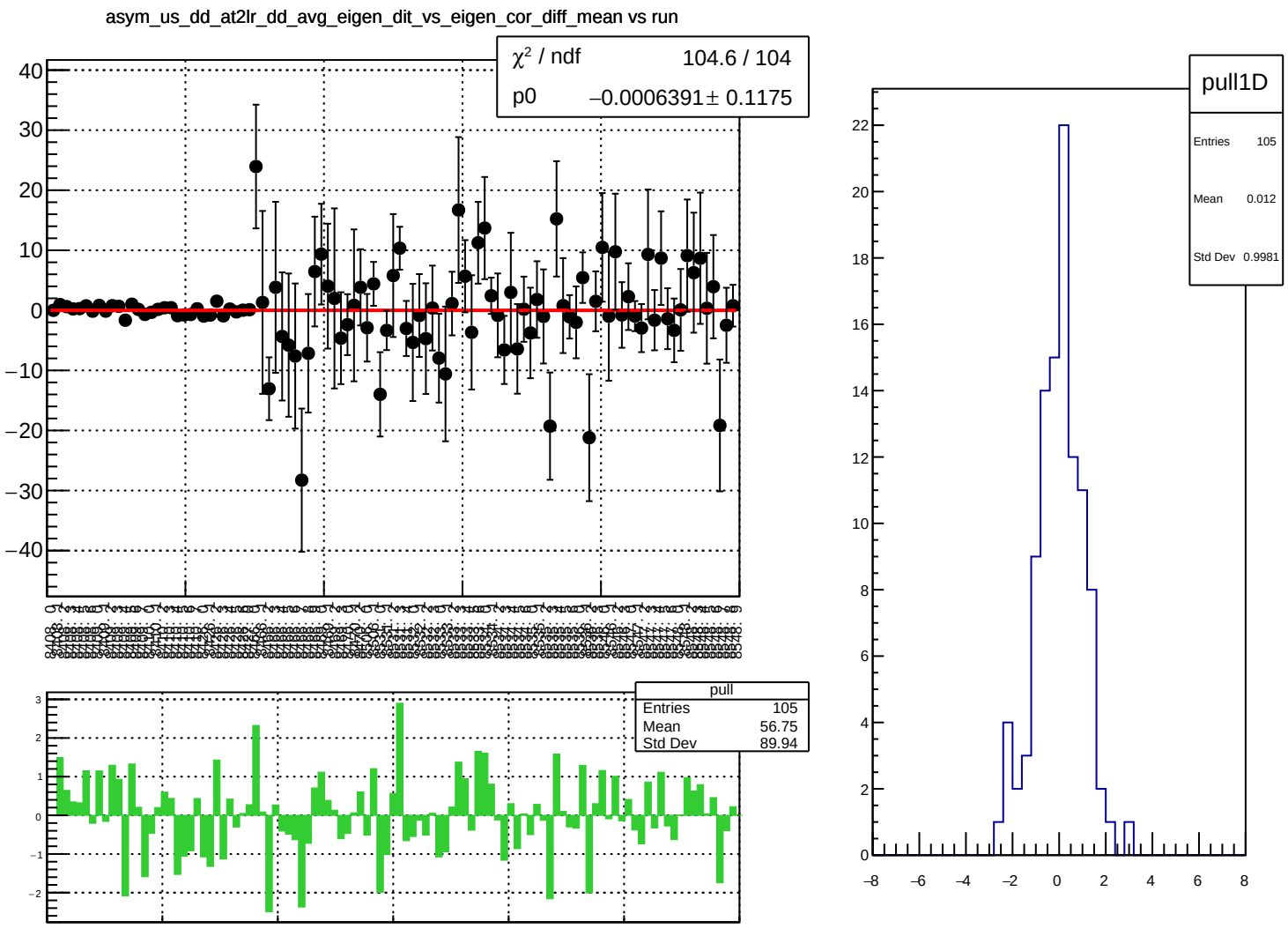

asym_us_dd_at2lr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.185e+06 / 104
p0 77.1 ± 0.08308
1400
1200
1000
800
600
400
200

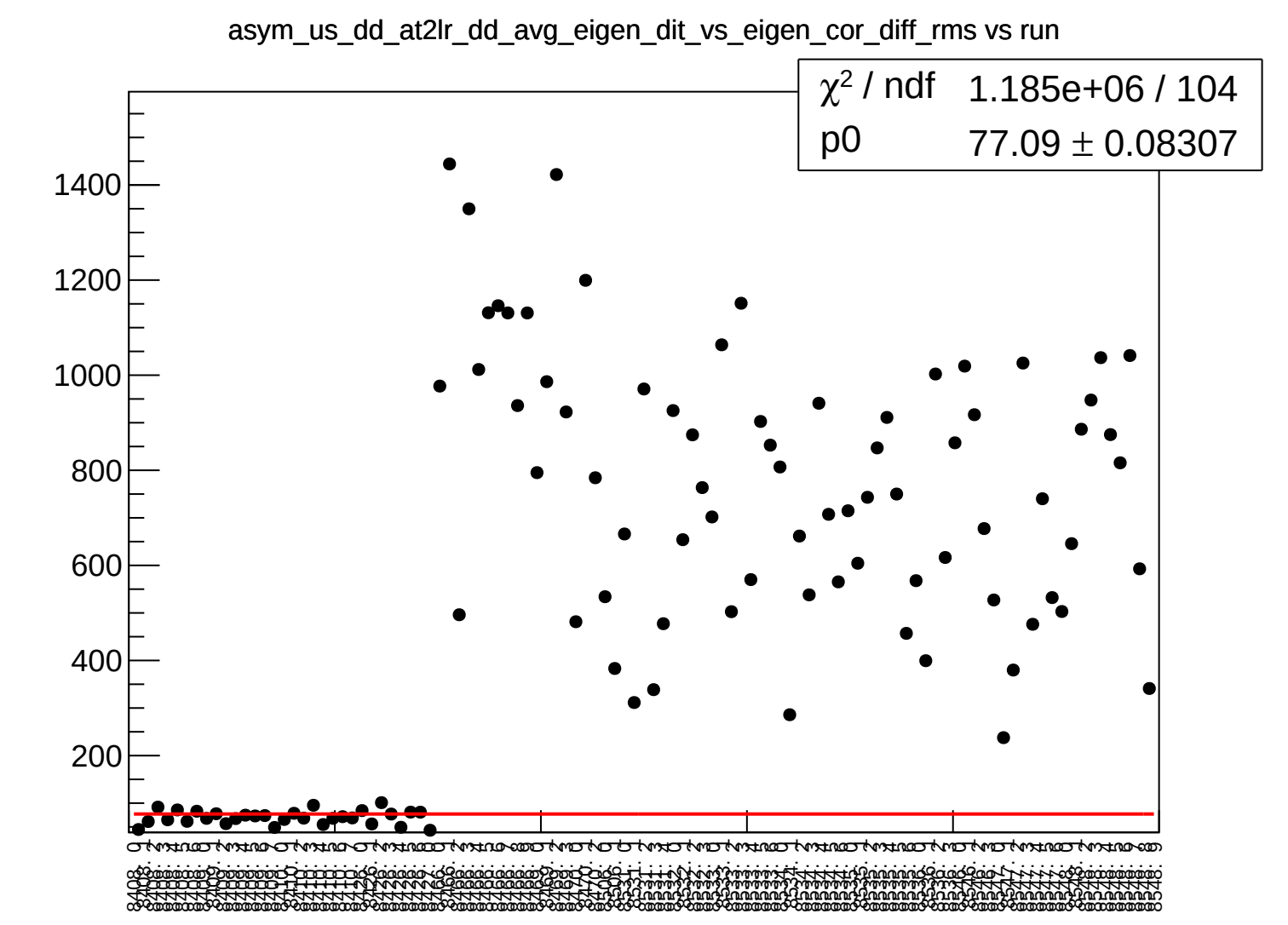

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 99.33 / 104
p0 9.664e−06 ± 5.287e−06
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 105
Mean 2476
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 105
Mean −0.0008168
Std Dev 0.9726
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

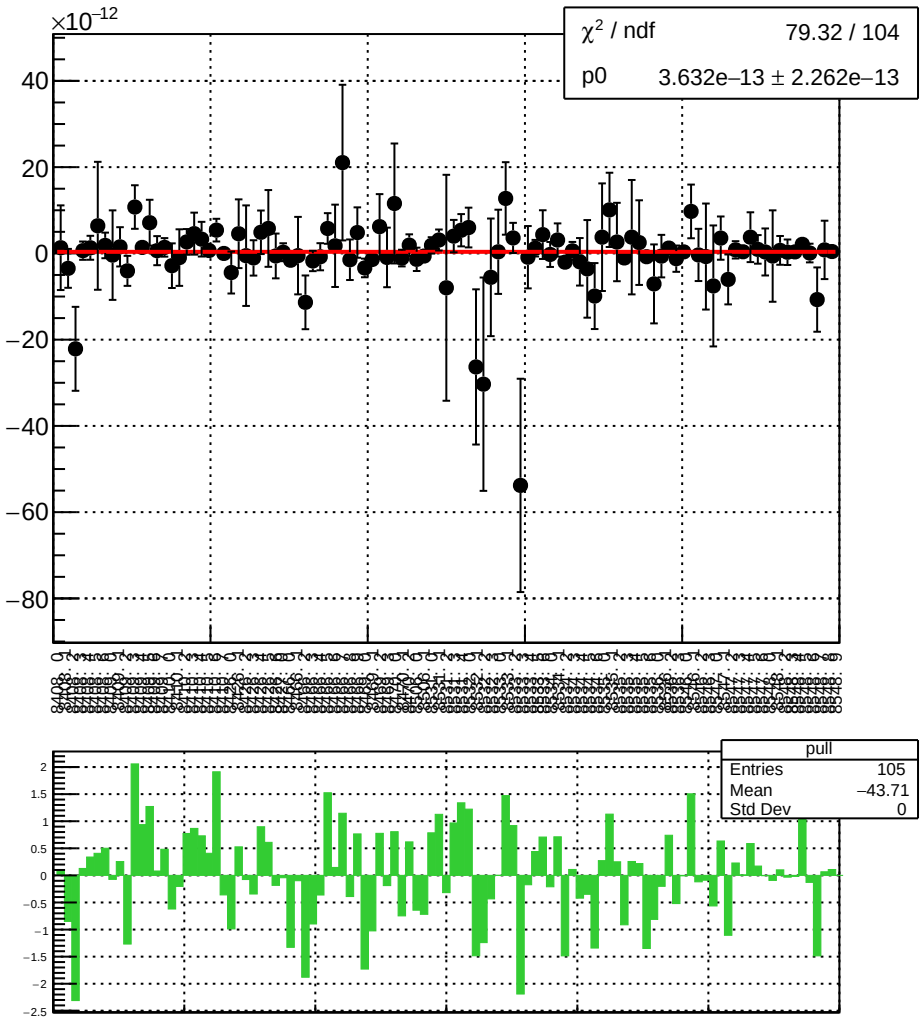

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.618e+05 / 104
p0 0.004706 ± 3.738e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

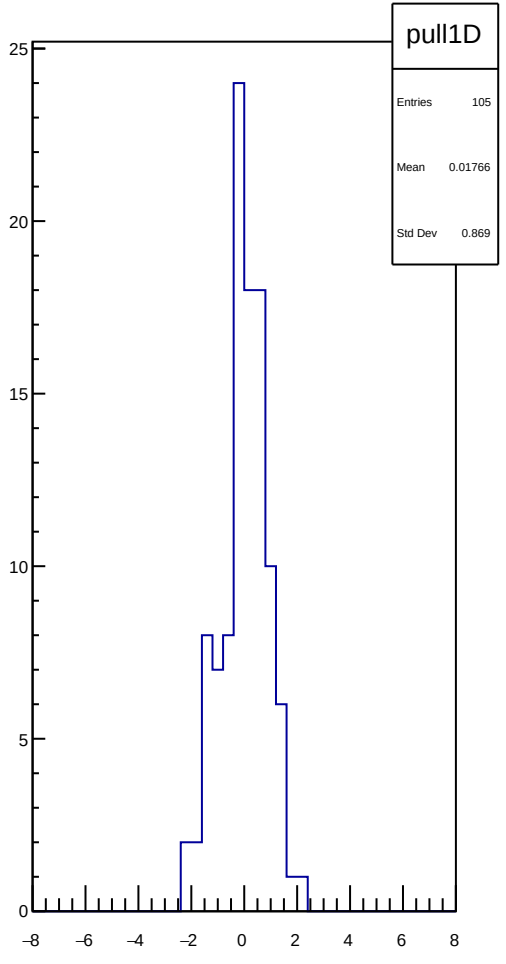

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 104.6 / 104
p0 −0.0006391 ± 0.1175
pull
Entries 105
Mean 56.75
Std Dev 89.94
pull1D
Entries 105
Mean 0.012
Std Dev 0.9981

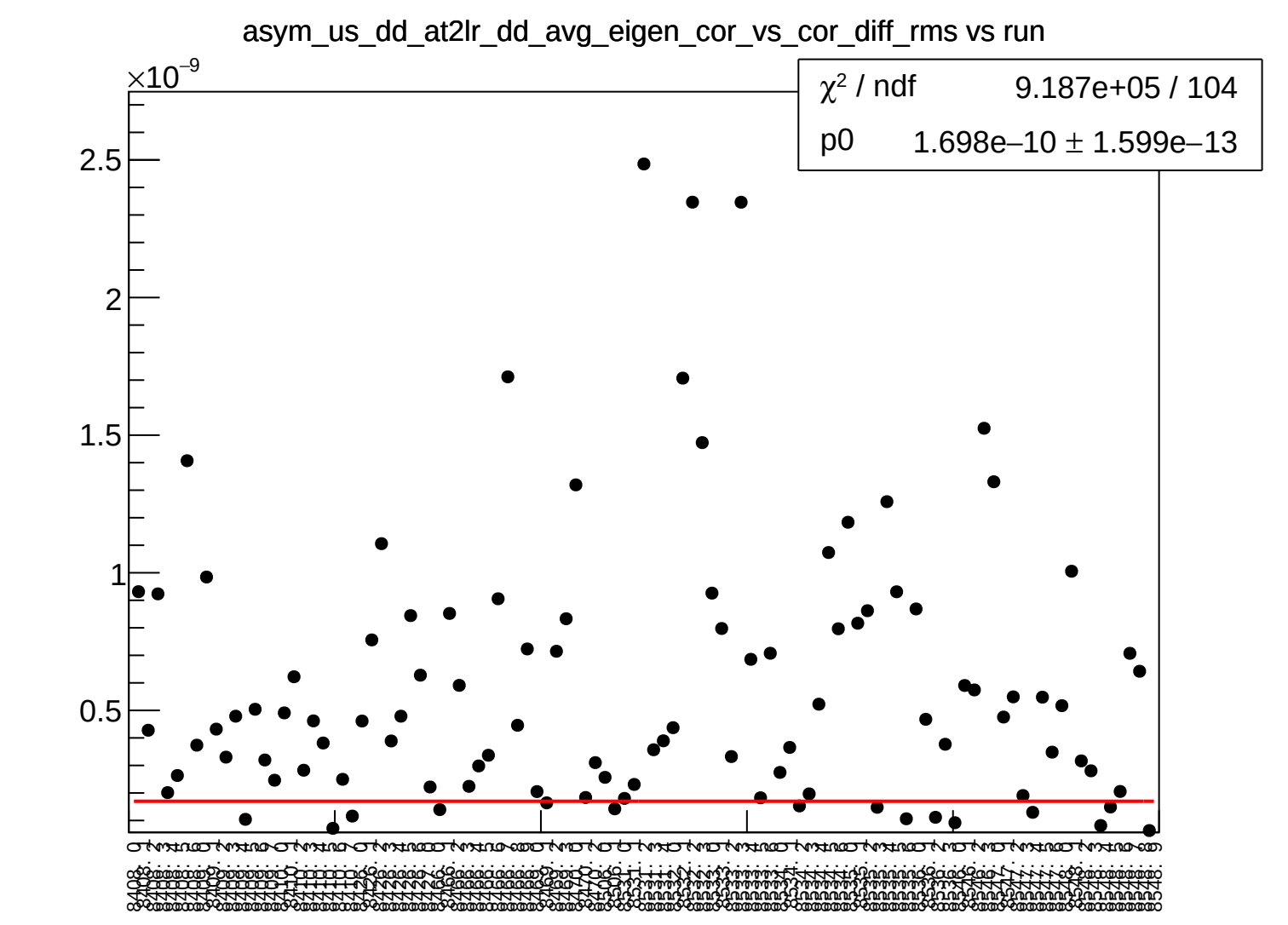

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.185e+06 / 104
p0 77.09 ± 0.08307
1400
1200
1000
800
600
400
200

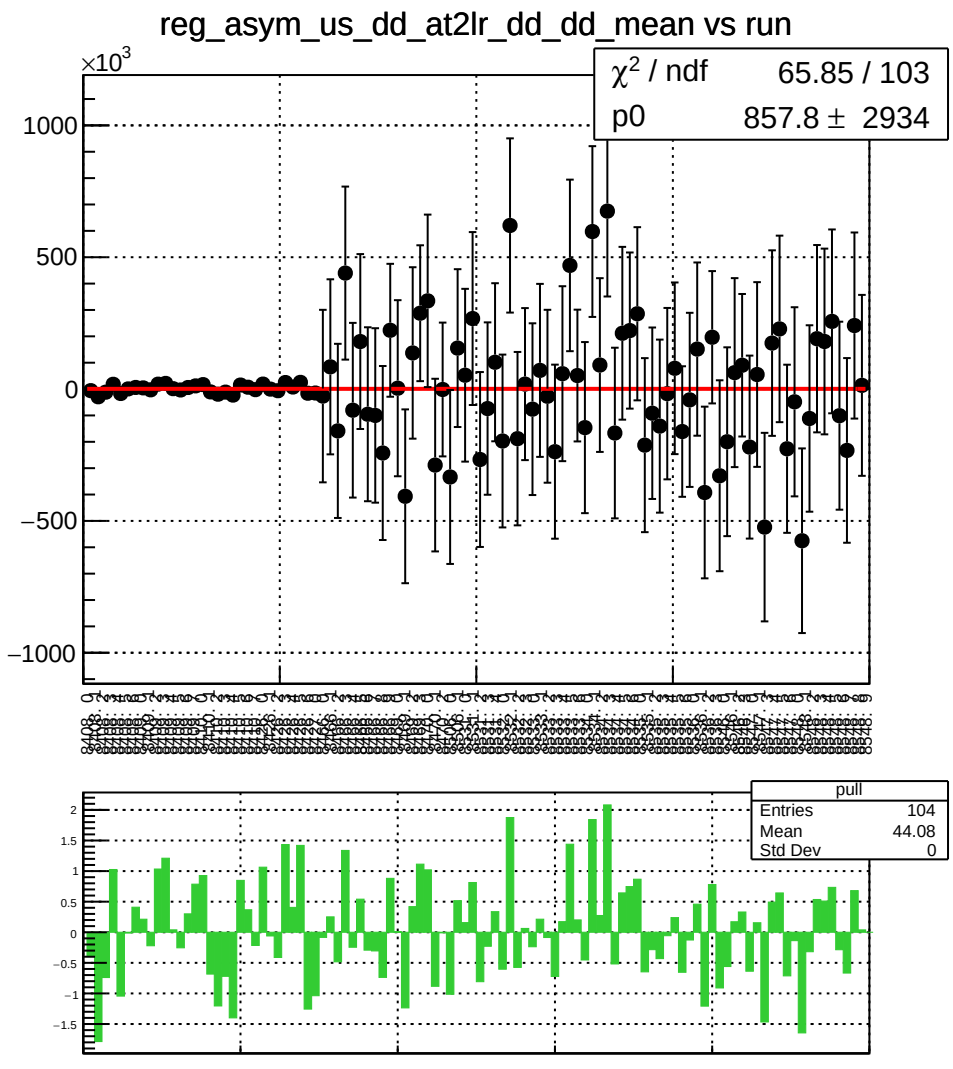

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.6 / 104
p0 −0.0006391 ± 0.1175
pull
Entries 105
Mean 56.75
Std Dev 89.94
pull1D
Entries 105
Mean 0.012
Std Dev 0.9981

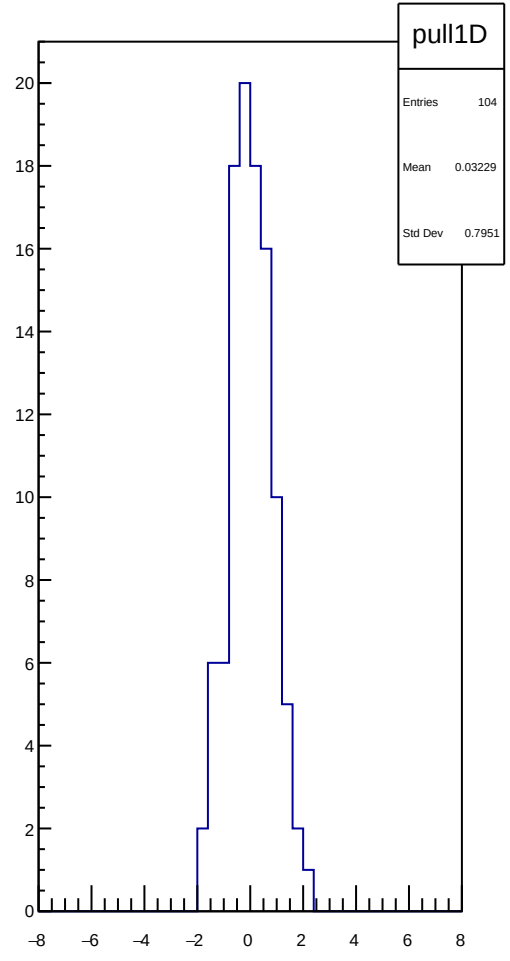

asym_us_dd_at2lr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.185e+06 / 104
p0 77.09 ± 0.08307
1400
1200
1000
800
600
400
200

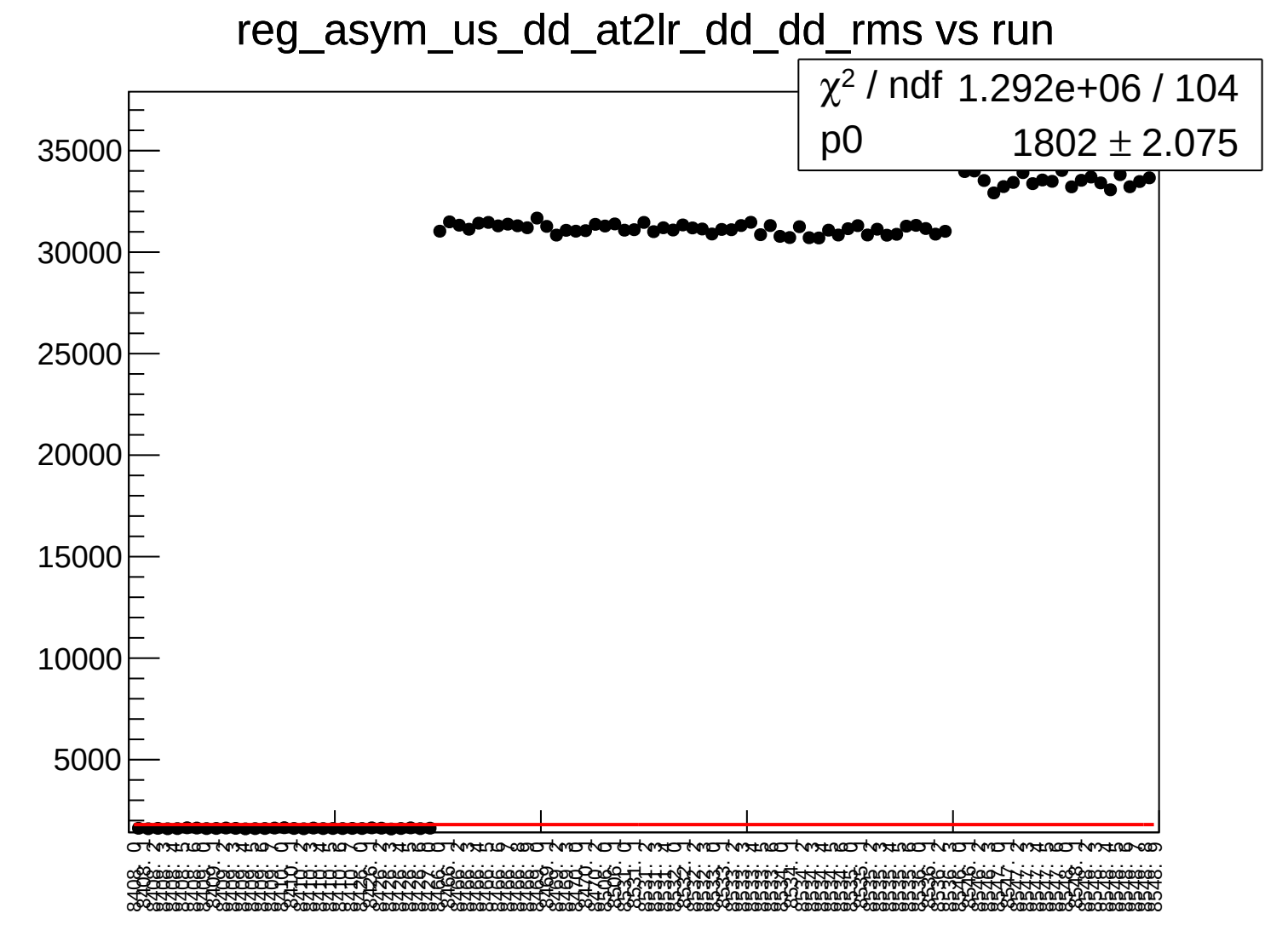

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.32 / 104
p0 3.632e−13 ± 2.262e−13
40
20
0
−20
−40
−60
−80
pull
Entries 105
Mean −43.71
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

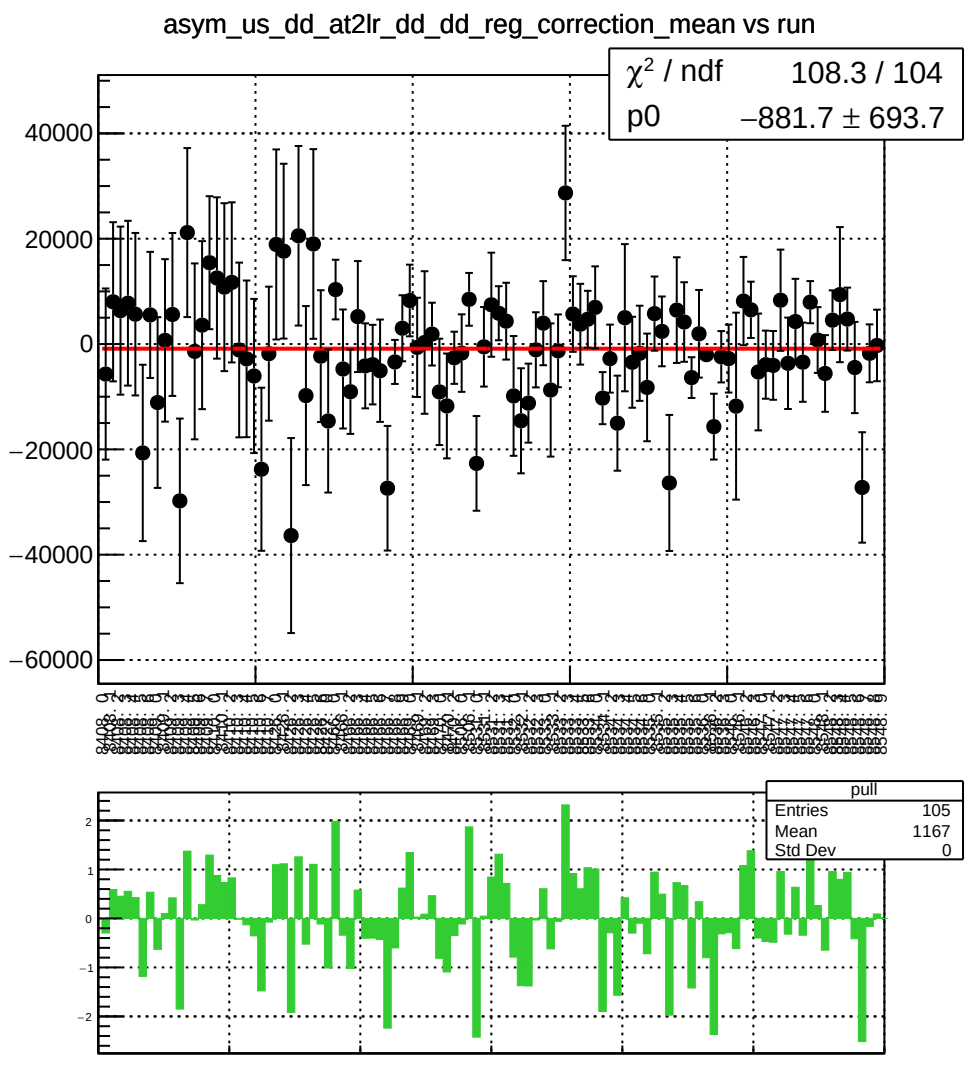

pull1D
Entries 105
Mean 0.01766
Std Dev 0.869
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

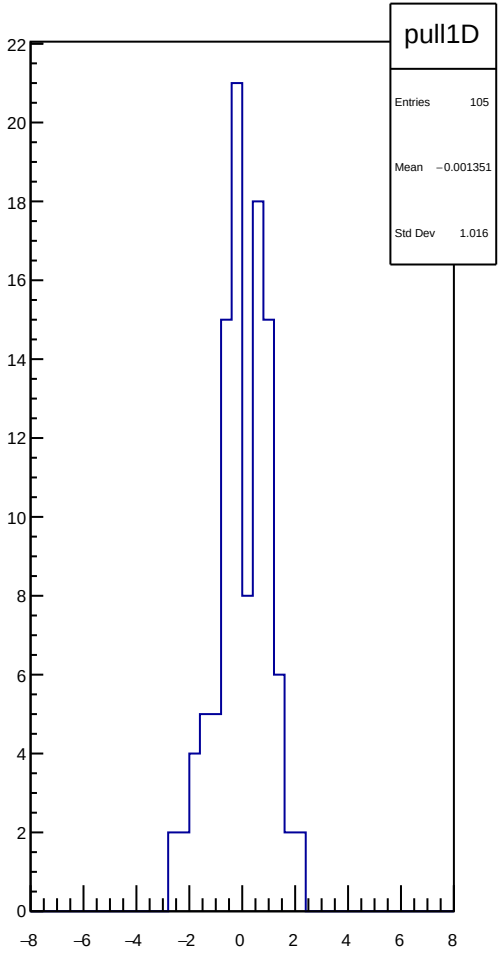

asym_us_dd_at2lr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.187e+05 / 104
p0 1.698e−10 ± 1.599e−13
2.5
2
1.5
1
0.5

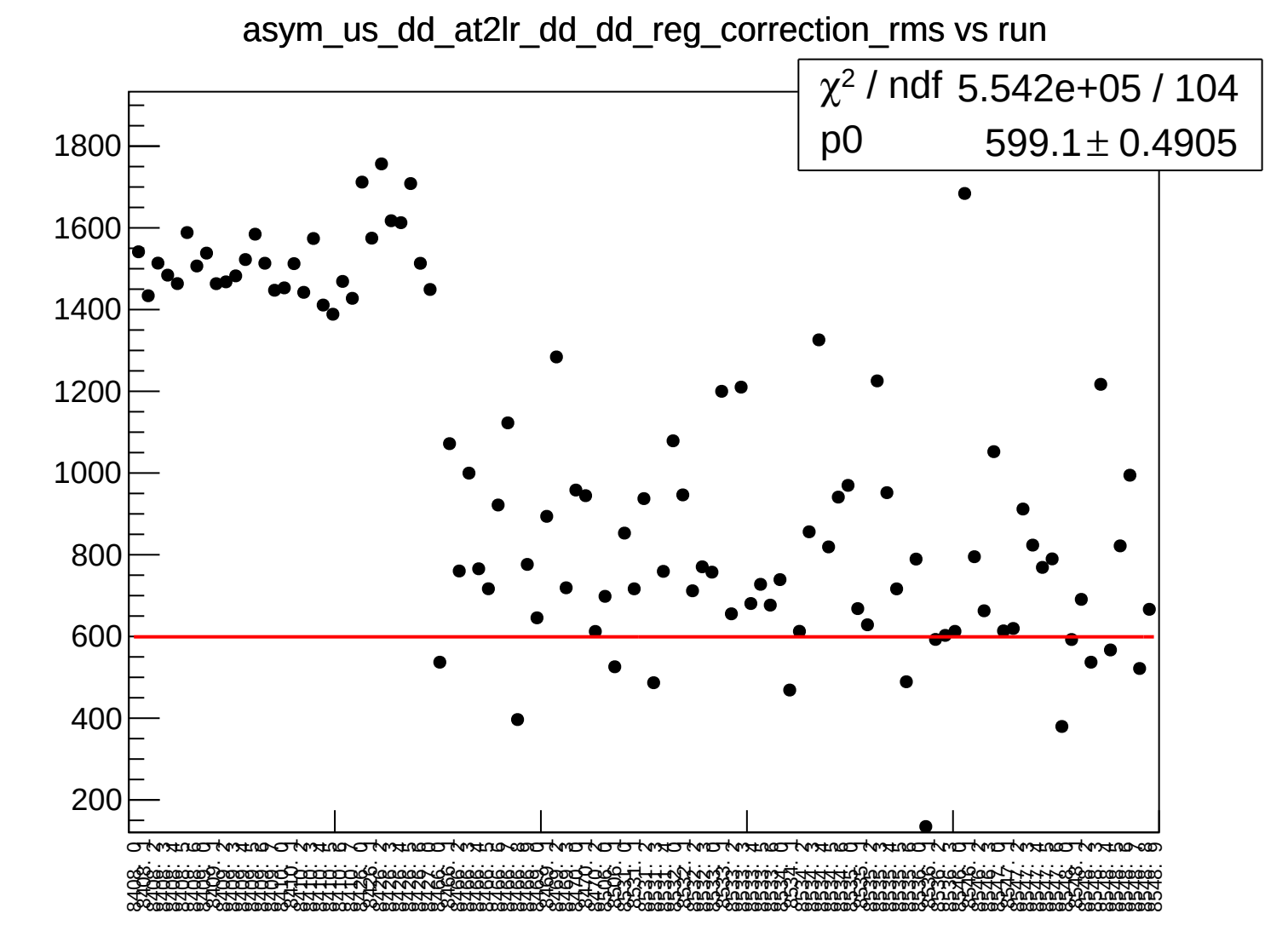

reg_asym_us_dd_at2lr_dd_dd_mean vs run
×10^3
χ^2 / ndf 65.85 / 103
p0 857.8 ± 2934
1000
500
0
−500
−1000
pull
Entries 104
Mean 44.08
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

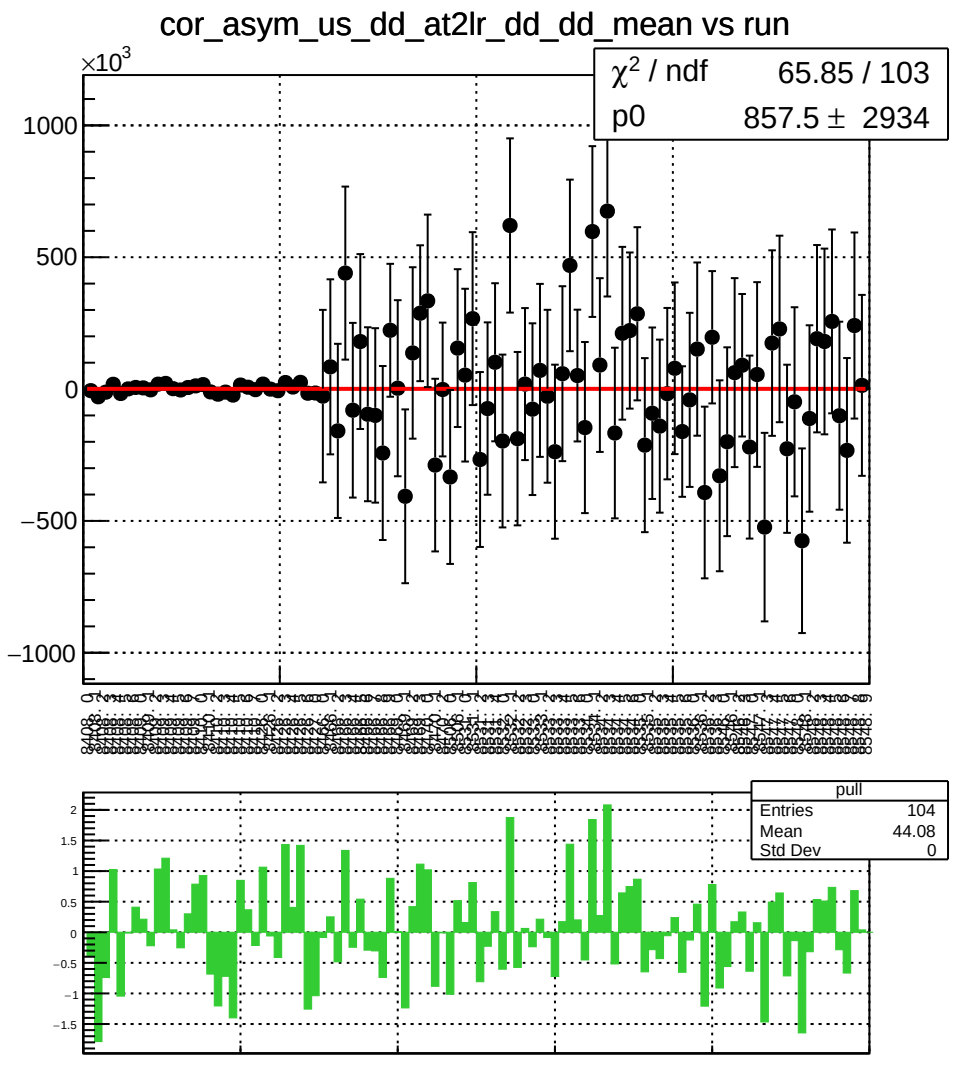

pull1D
Entries 104
Mean 0.03229
Std Dev 0.7951
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

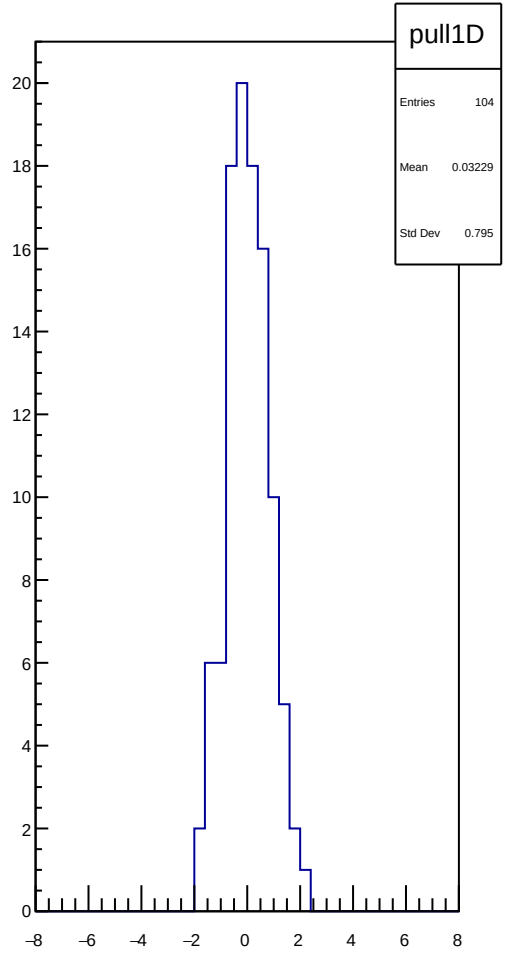

reg_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 1.292e+06 / 104
p0 1802 ± 2.075
35000
30000
25000
20000
15000
10000
5000

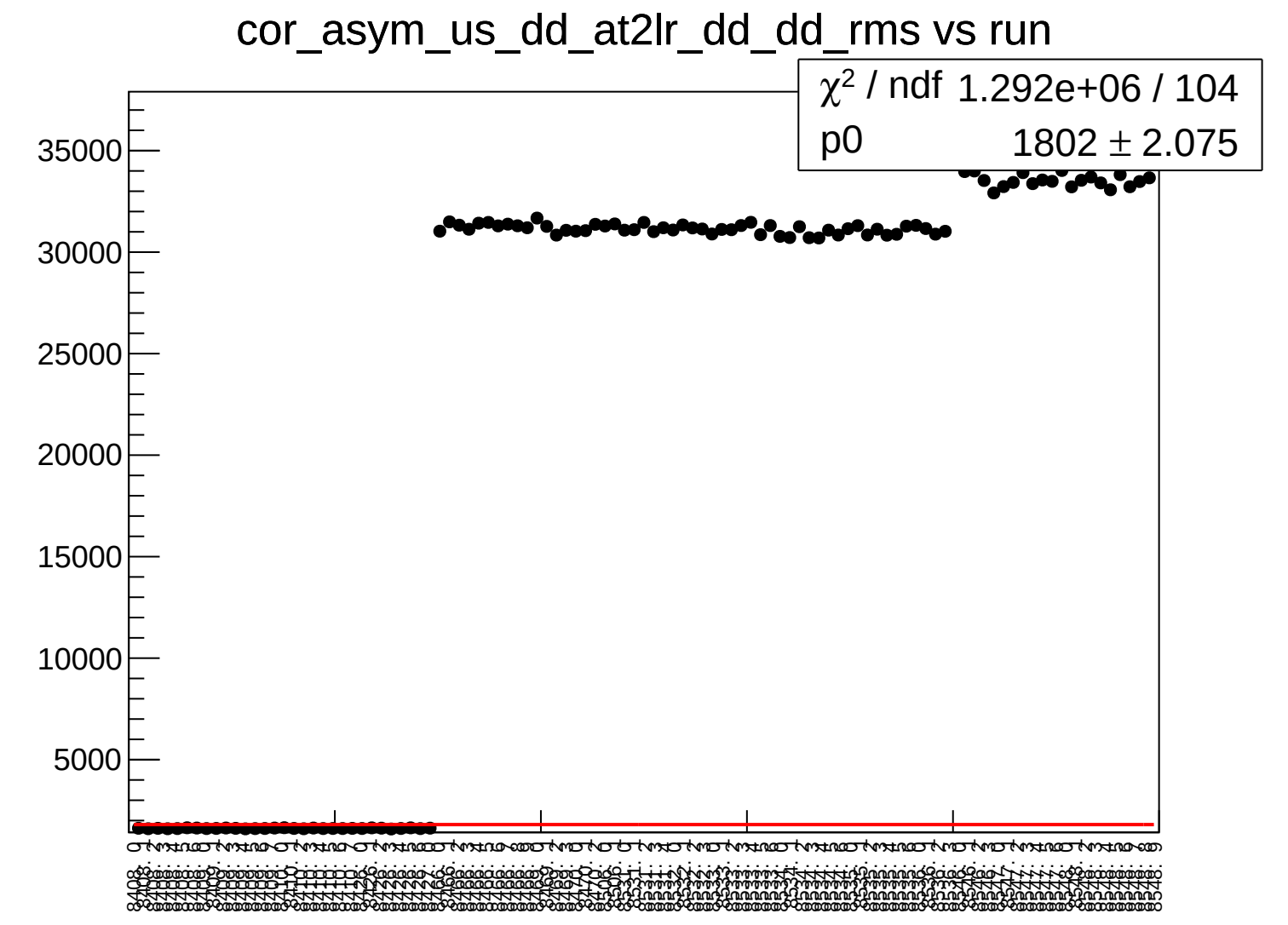

asym_us_dd_at2lr_dd_dd_reg_correction_mean vs run
χ² / ndf 108.3 / 104
p0 −881.7 ± 693.7
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean 1167
Std Dev 0
2
1
0
−1
−2

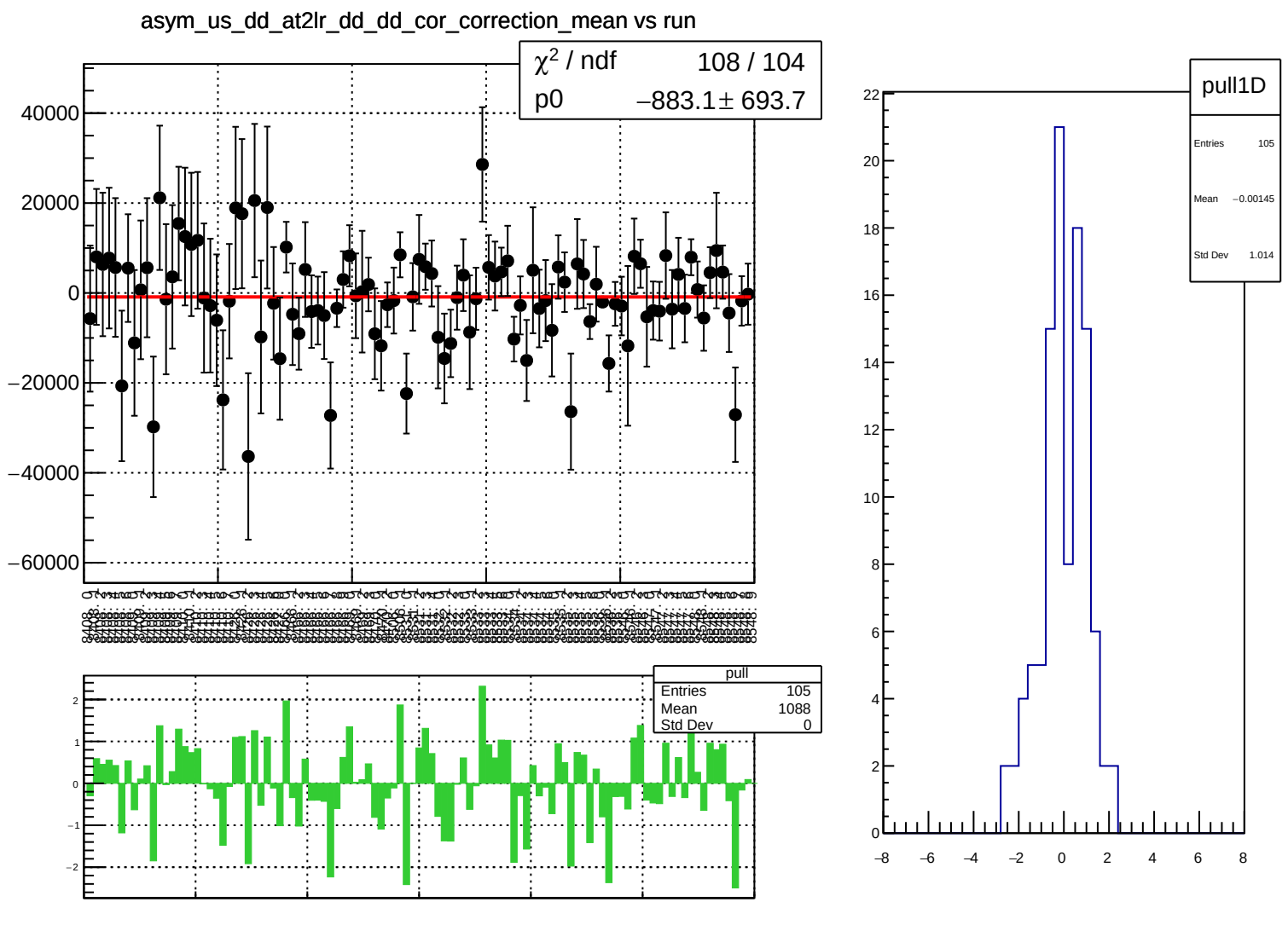

pull1D
Entries 105
Mean −0.001351
Std Dev 1.016
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

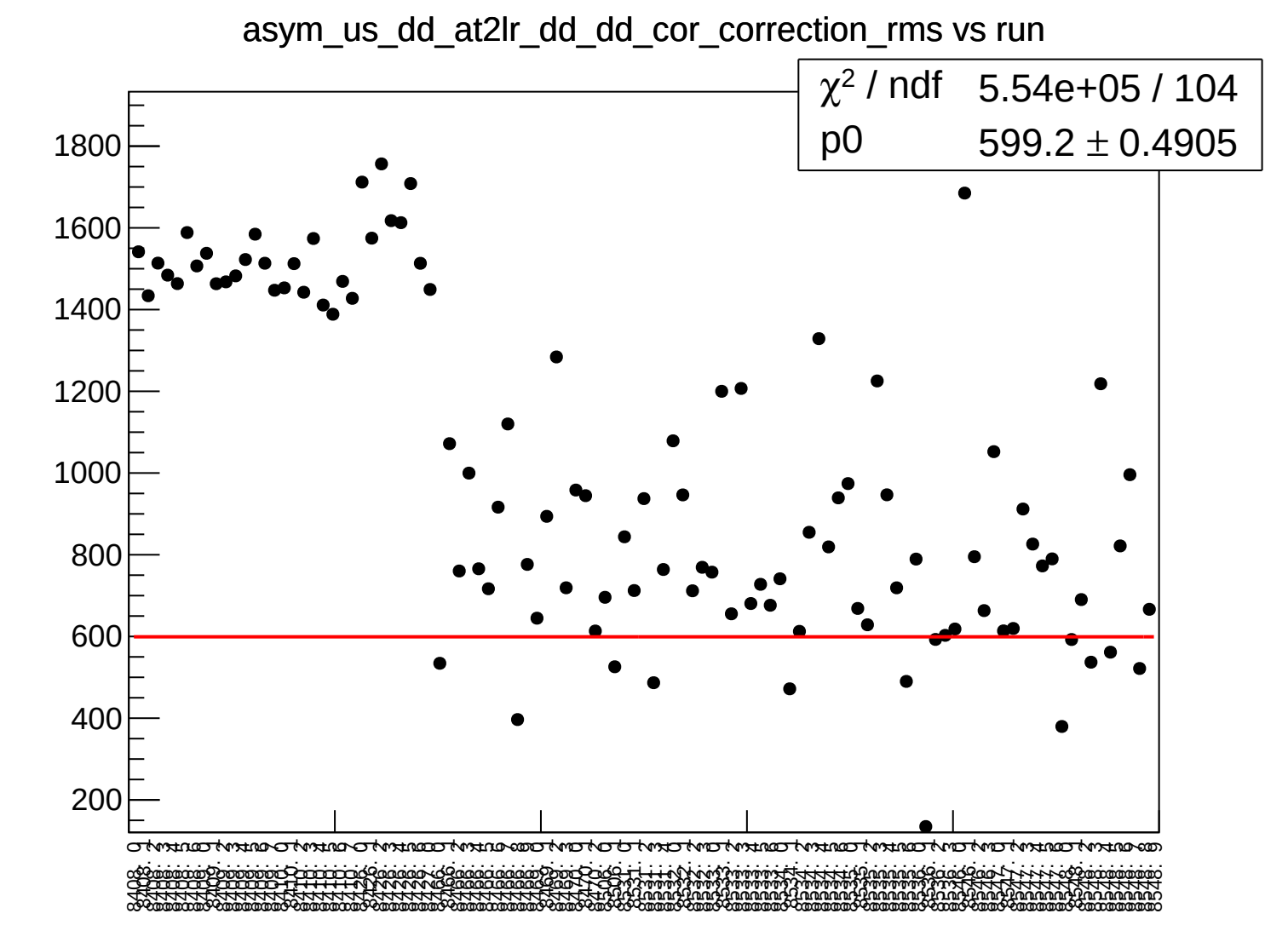

asym_us_dd_at2lr_dd_dd_reg_correction_rms vs run
χ² / ndf 5.542e+05 / 104
p0 599.1 ± 0.4905
1800
1600
1400
1200
1000
800
600
400
200

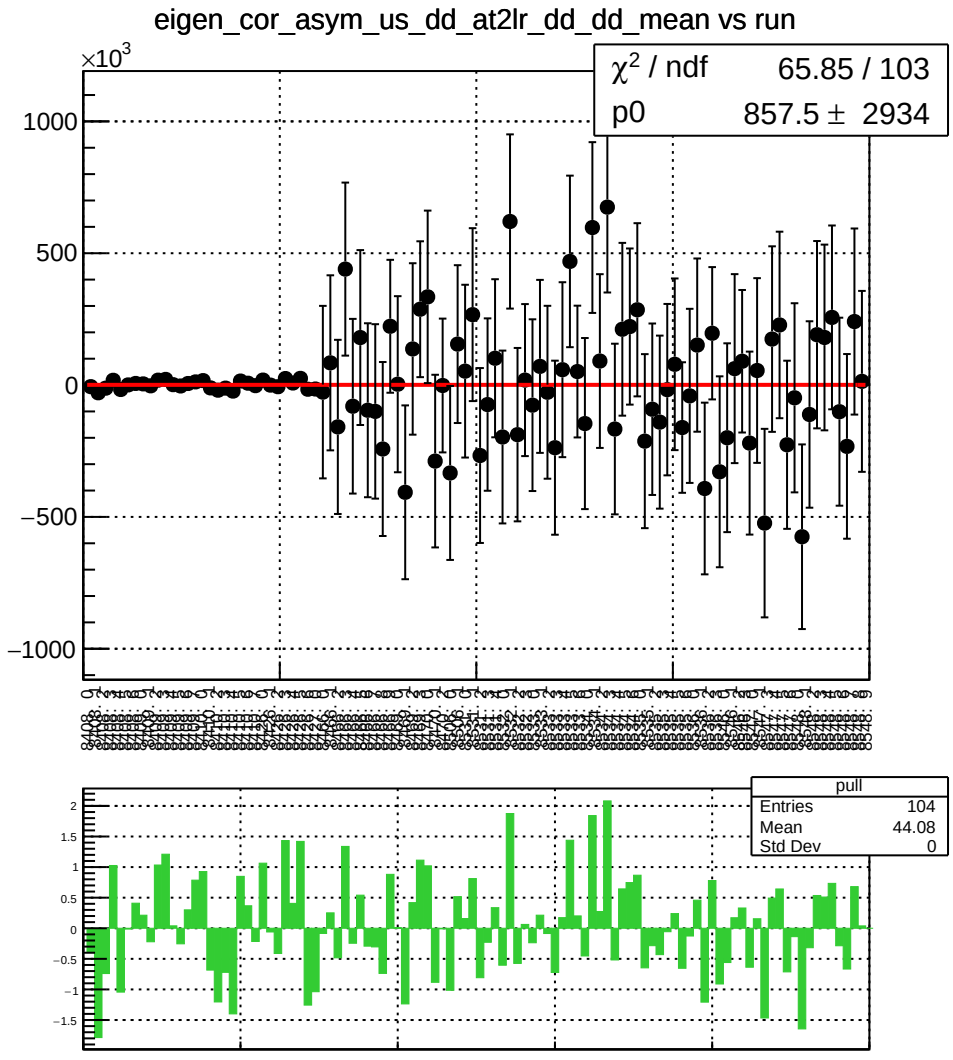

cor_asym_us_dd_at2lr_dd_dd_mean vs run
×10^3
χ^2 / ndf 65.85 / 103
p0 857.5 ± 2934
1000
500
0
−500
−1000
pull
Entries 104
Mean 44.08
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

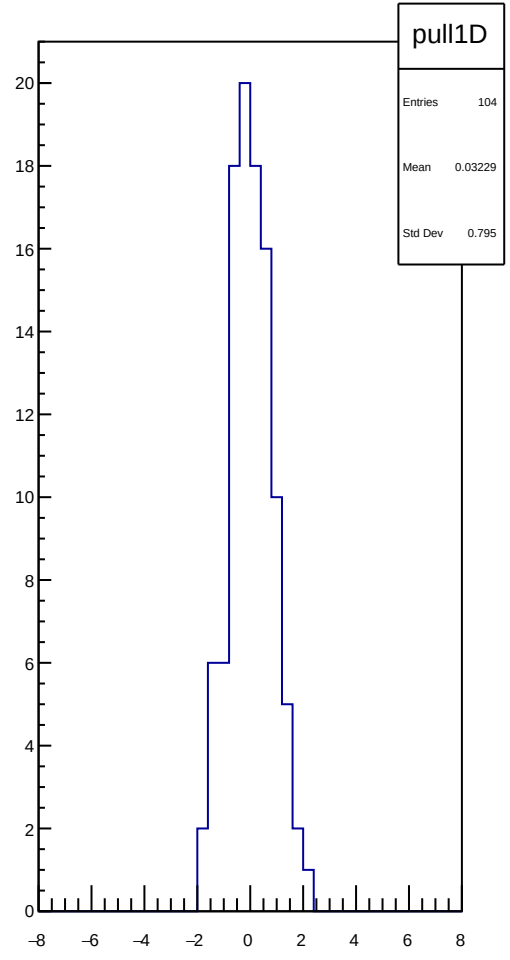

pull1D
Entries 104
Mean 0.03229
Std Dev 0.795
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

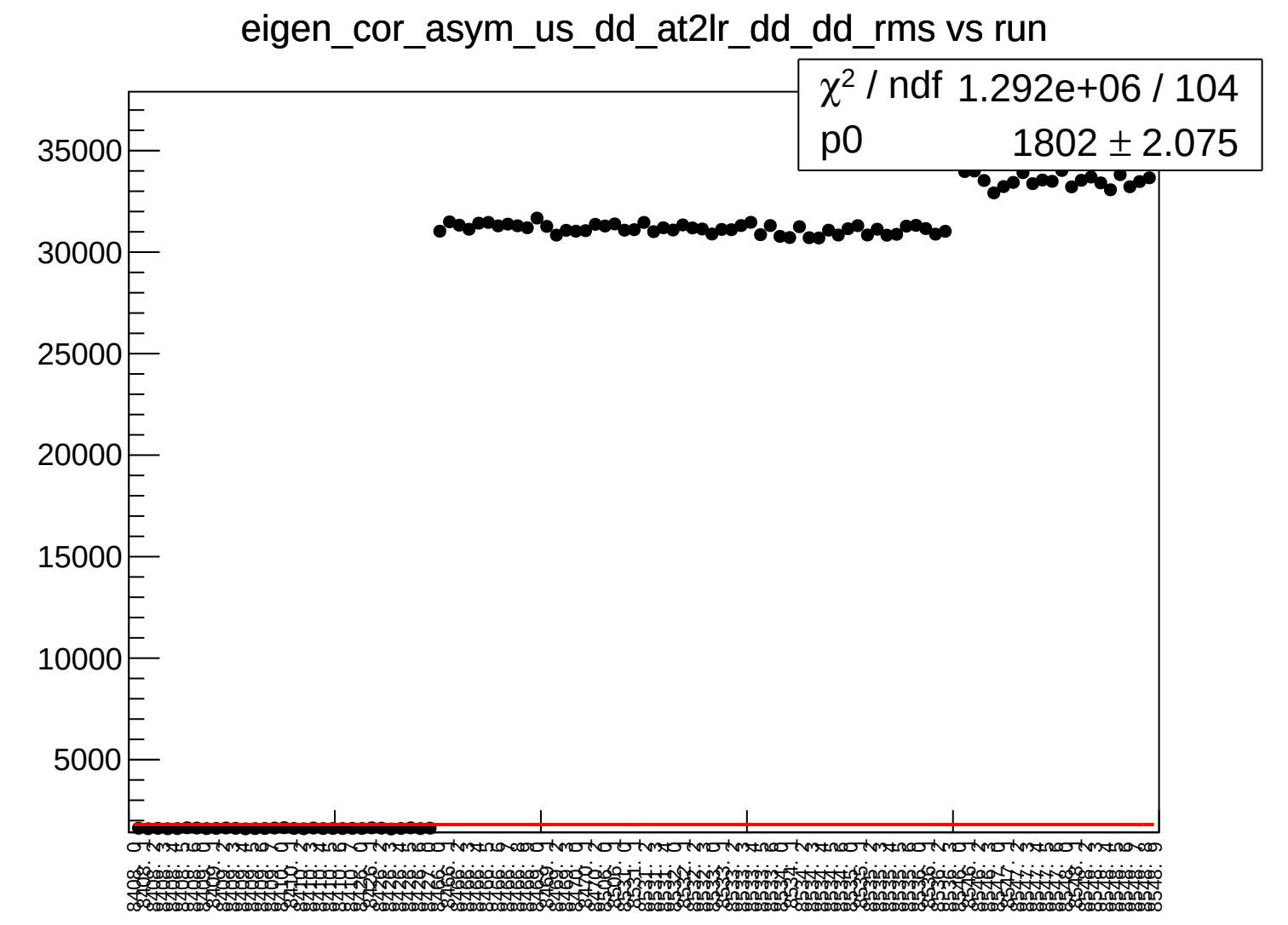

cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 1.292e+06 / 104
p0 1802 ± 2.075
35000
30000
25000
20000
15000
10000
5000

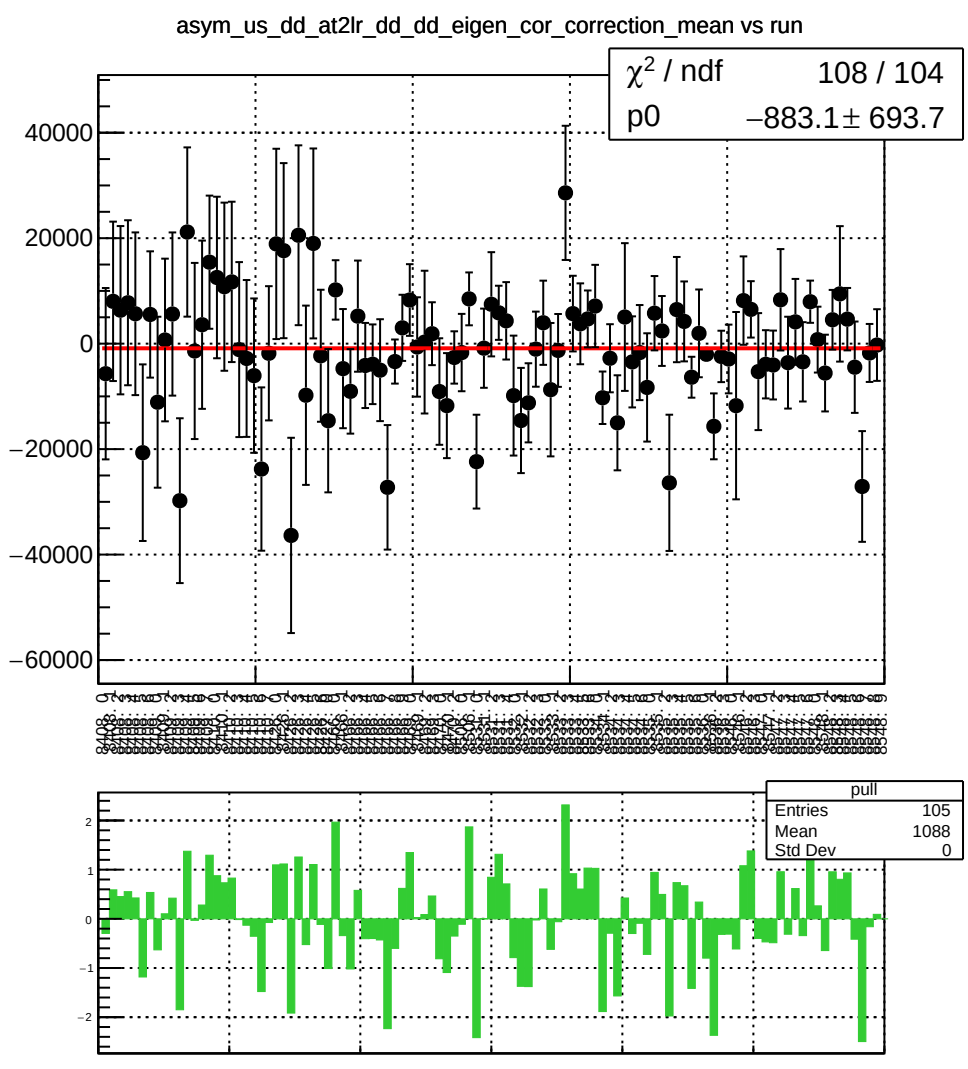

asym_us_dd_at2lr_dd_dd_cor_correction_mean vs run
χ² / ndf 108 / 104
p0 −883.1± 693.7
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean 1088
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.00145
Std Dev 1.014
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

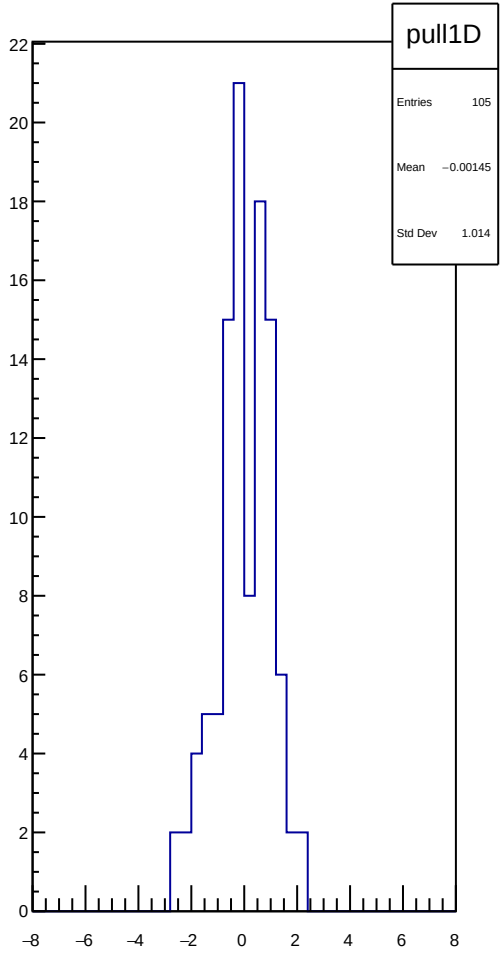

asym_us_dd_at2lr_dd_dd_cor_correction_rms vs run
χ² / ndf 5.54e+05 / 104
p0 599.2 ± 0.4905
1800
1600
1400
1200
1000
800
600
400
200

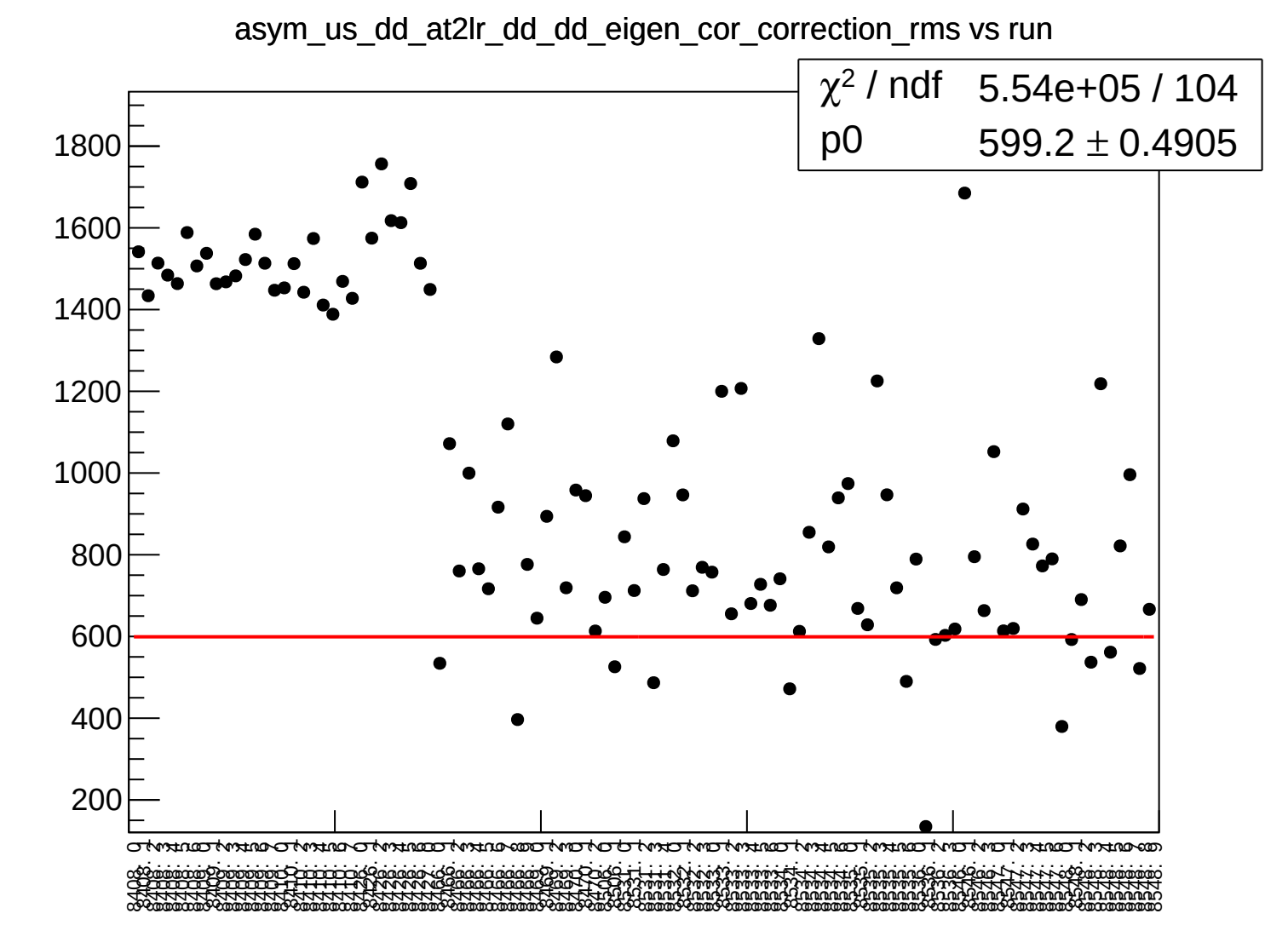

eigen_cor_asym_us_dd_at2lr_dd_dd_mean vs run
×10^3
χ^2 / ndf 65.85 / 103
p0 857.5 ± 2934
1000
500
0
−500
−1000
pull
Entries 104
Mean 44.08
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

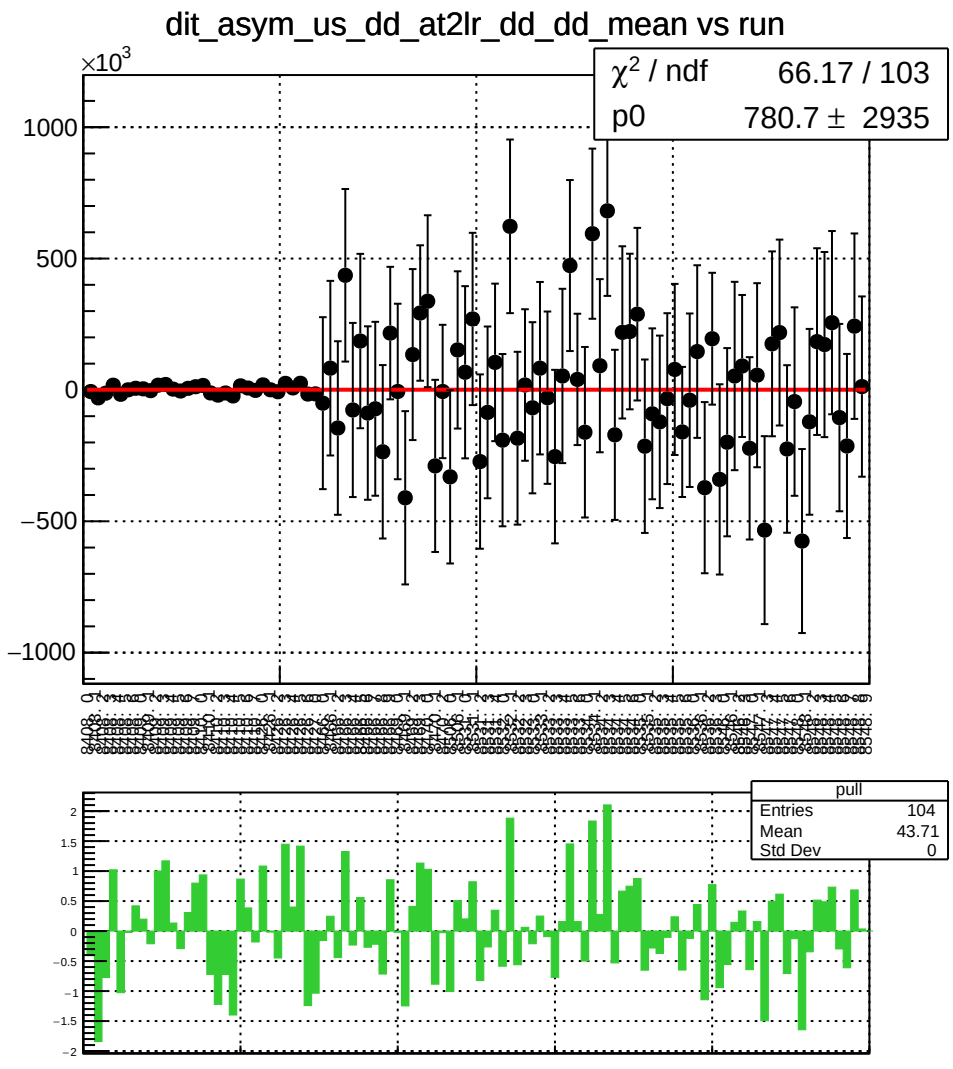

pull1D
Entries 104
Mean 0.03229
Std Dev 0.795
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

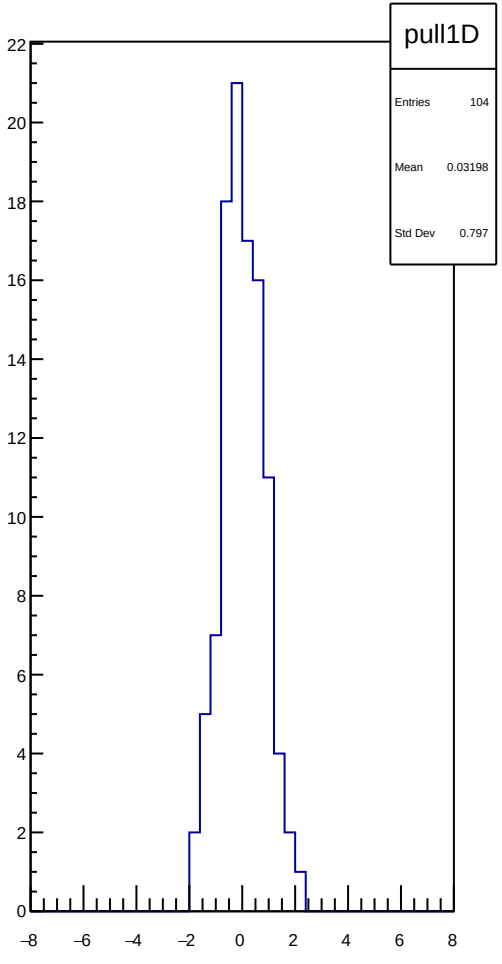

eigen_cor_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 1.292e+06 / 104
p0 1802 ± 2.075
35000
30000
25000
20000
15000
10000
5000

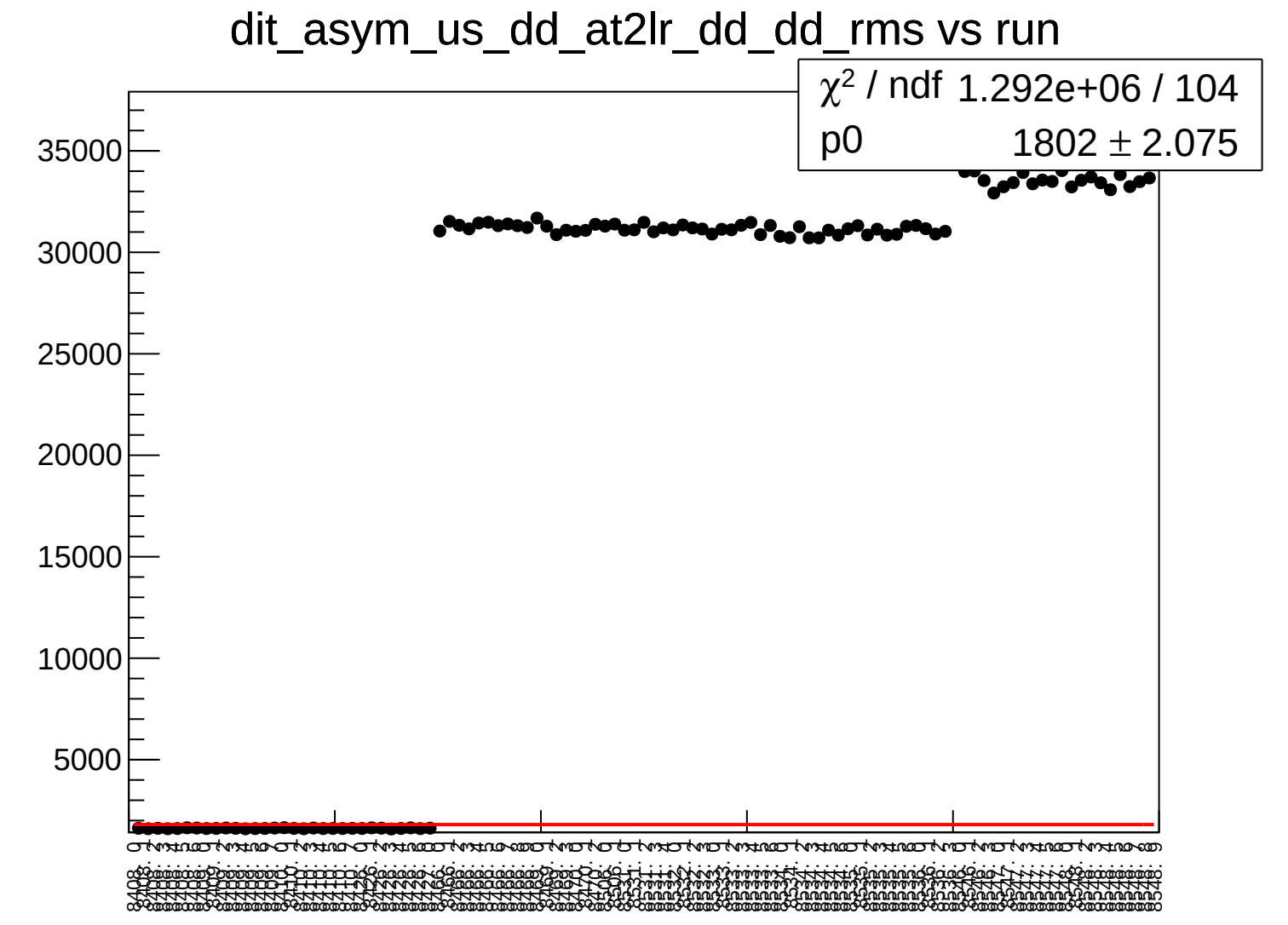

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 108 / 104
p0 −883.1± 693.7
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean 1088
Std Dev 0
2
1
0
−1
−2

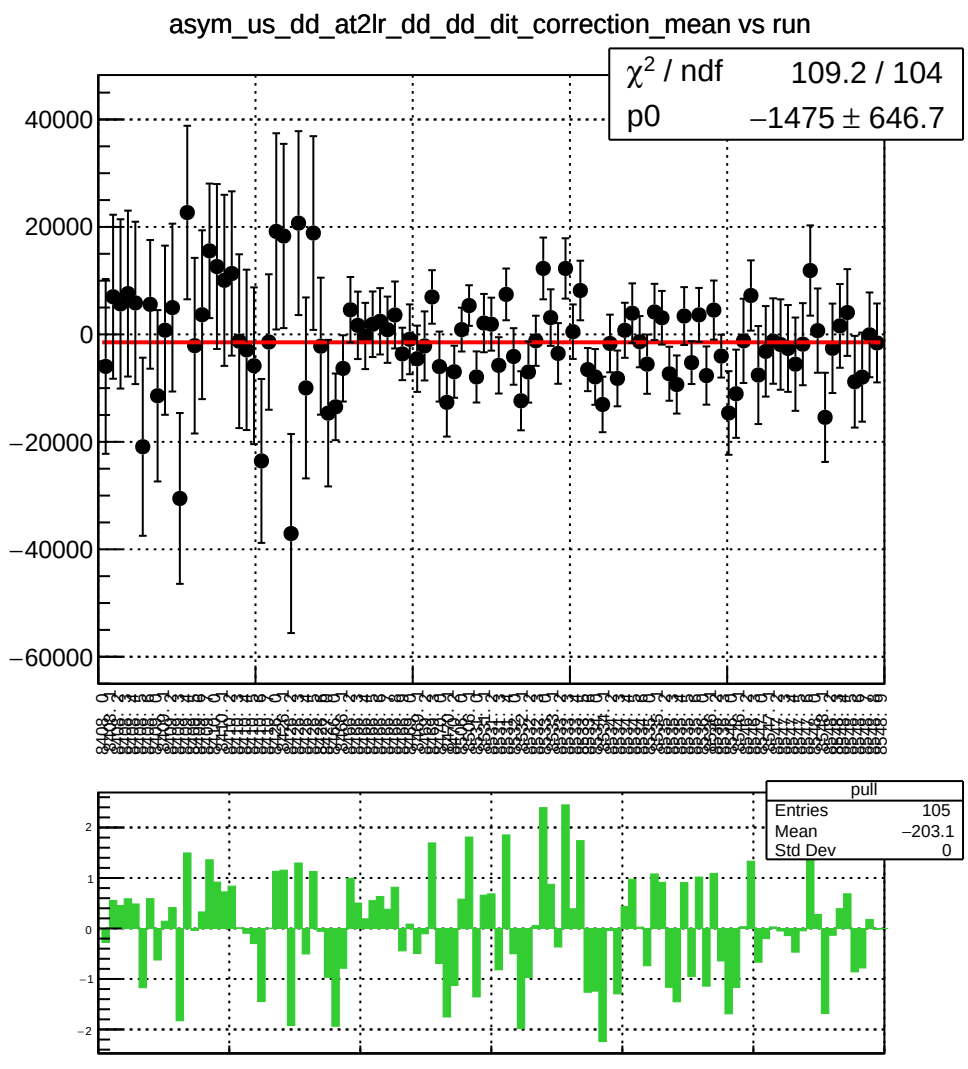

pull1D
Entries 105
Mean −0.00145
Std Dev 1.014
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

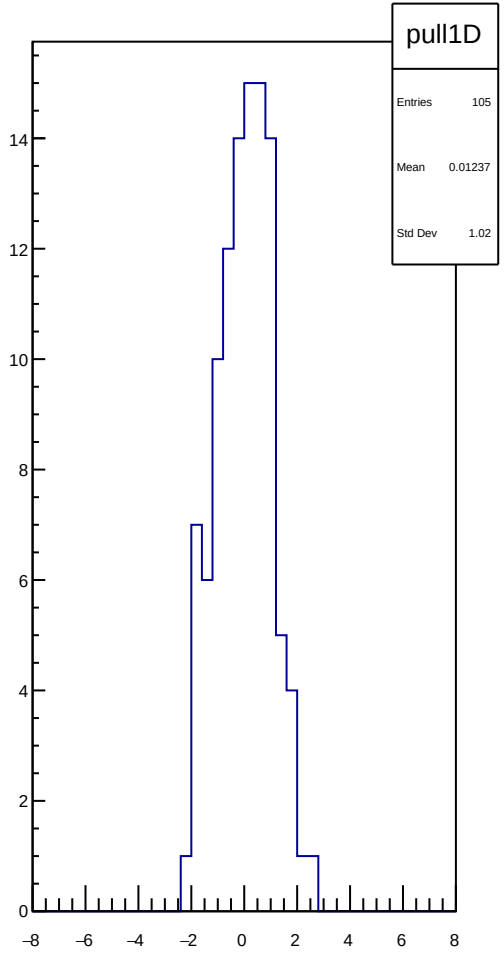

asym_us_dd_at2lr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 5.54e+05 / 104
p0 599.2 ± 0.4905
1800
1600
1400
1200
1000
800
600
400
200

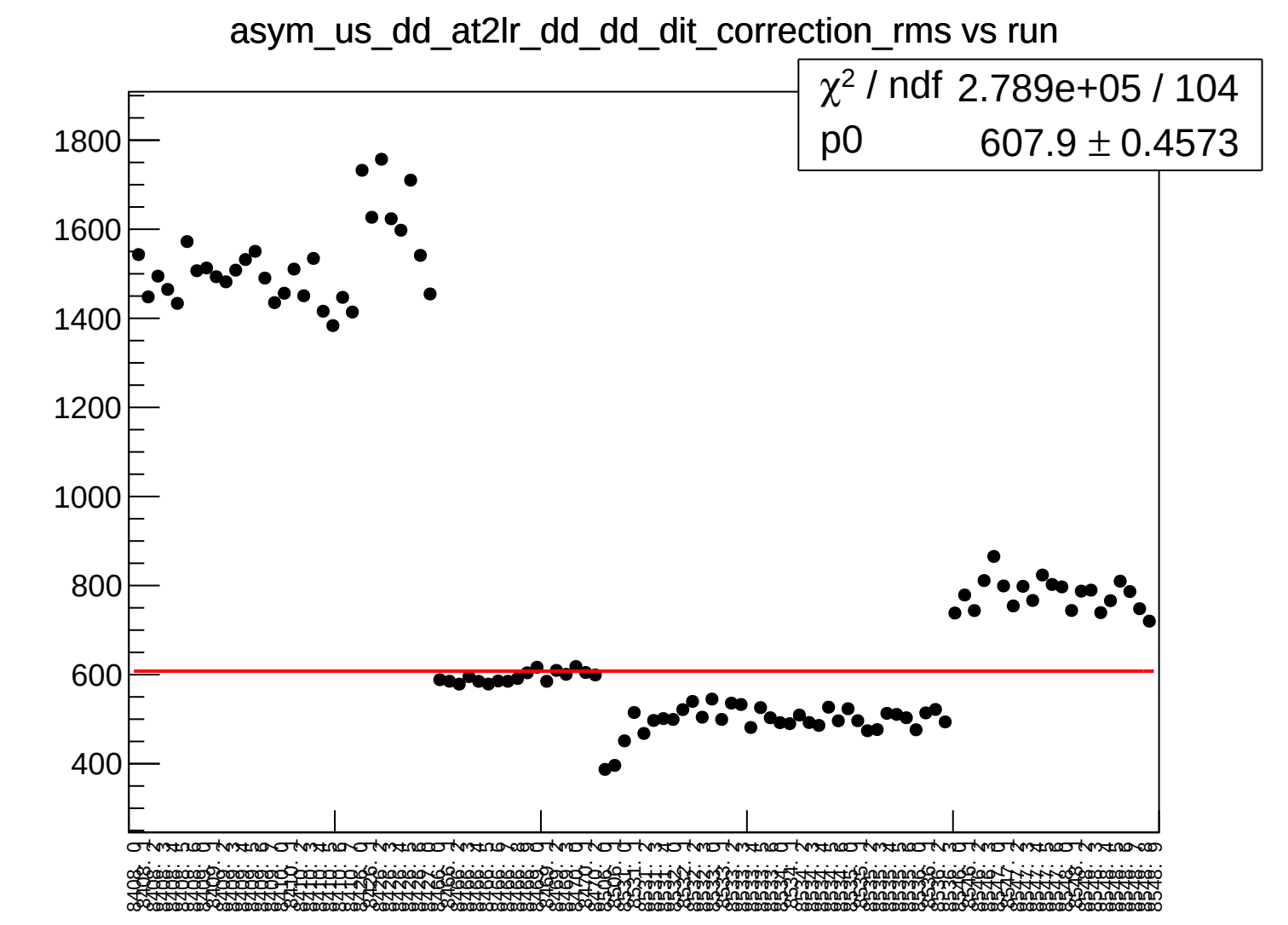

dit_asym_us_dd_at2lr_dd_dd_mean vs run
×10^3
χ^2 / ndf 66.17 / 103
p0 780.7 ± 2935
1000
500
0
−500
−1000
pull
Entries 104
Mean 43.71
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

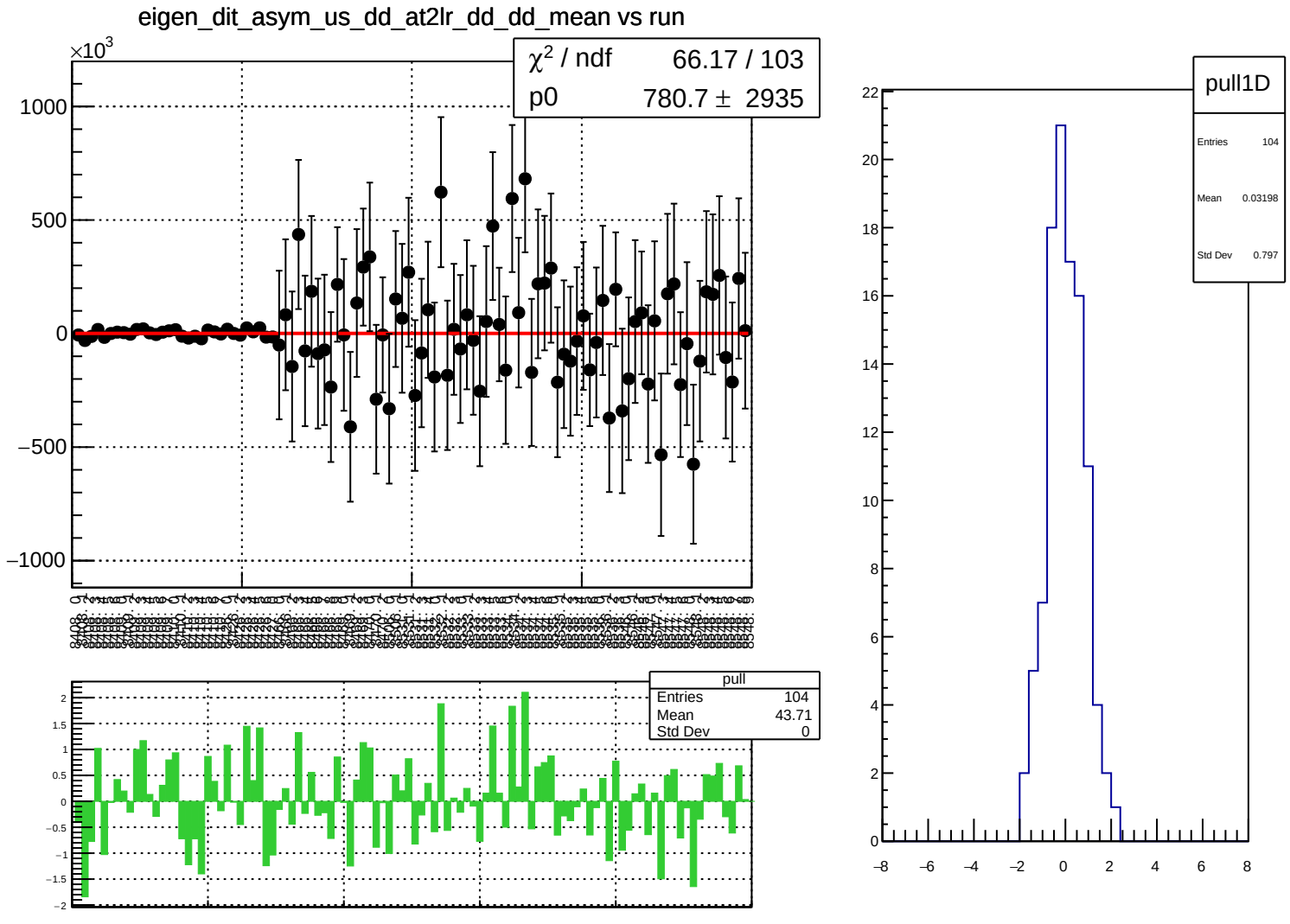

pull1D
Entries 104
Mean 0.03198
Std Dev 0.797
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

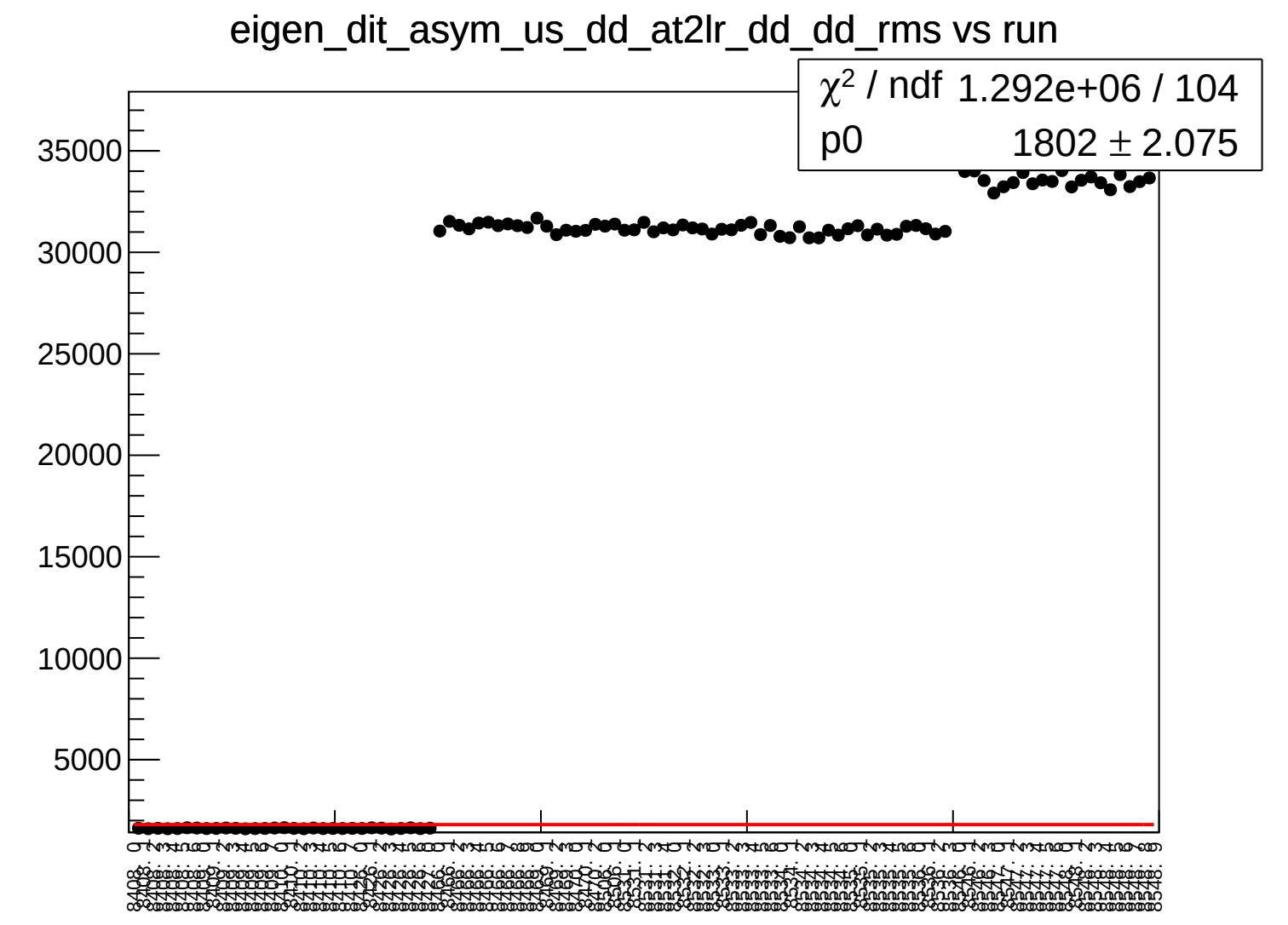

dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 1.292e+06 / 104
p0 1802 ± 2.075
35000
30000
25000
20000
15000
10000
5000

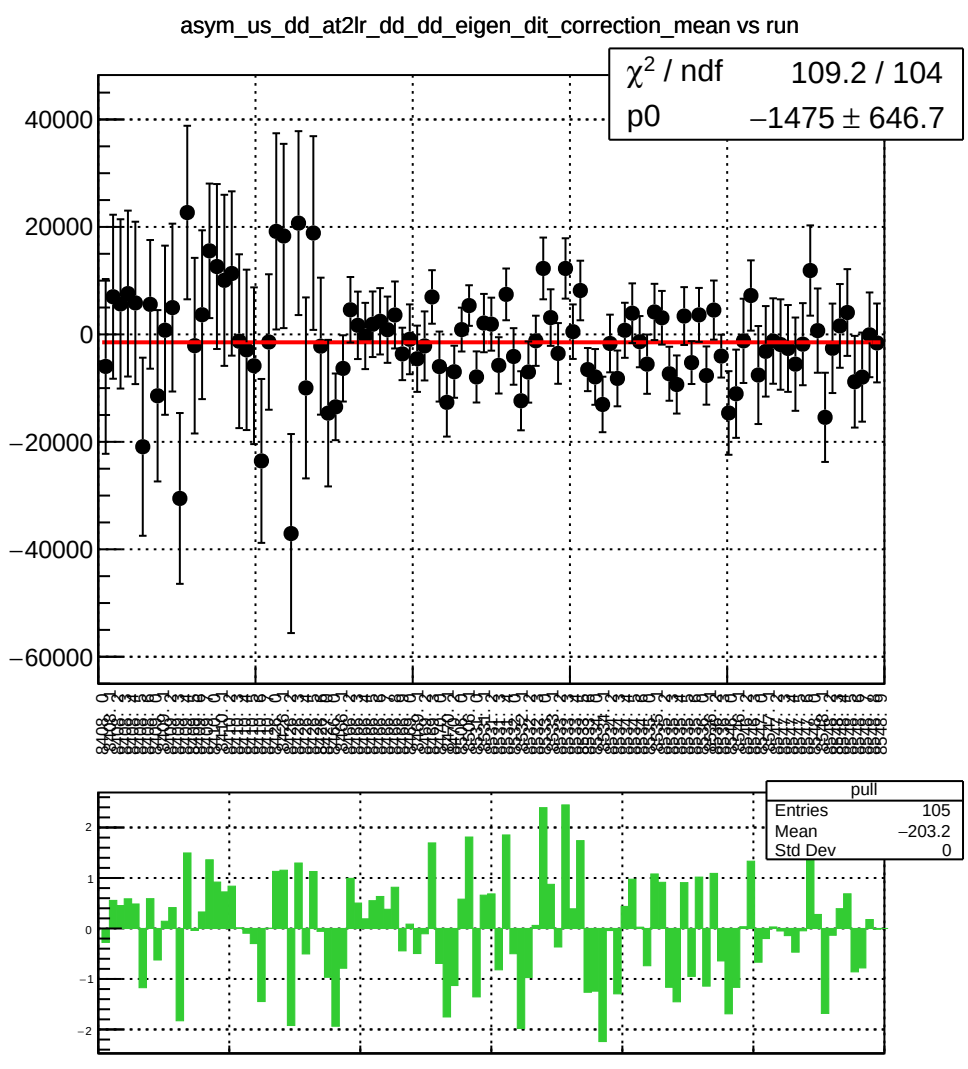

asym_us_dd_at2lr_dd_dd_dit_correction_mean vs run
χ² / ndf 109.2 / 104
p0 −1475 ± 646.7
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean −203.1
Std Dev 0
2
1
0
−1
−2

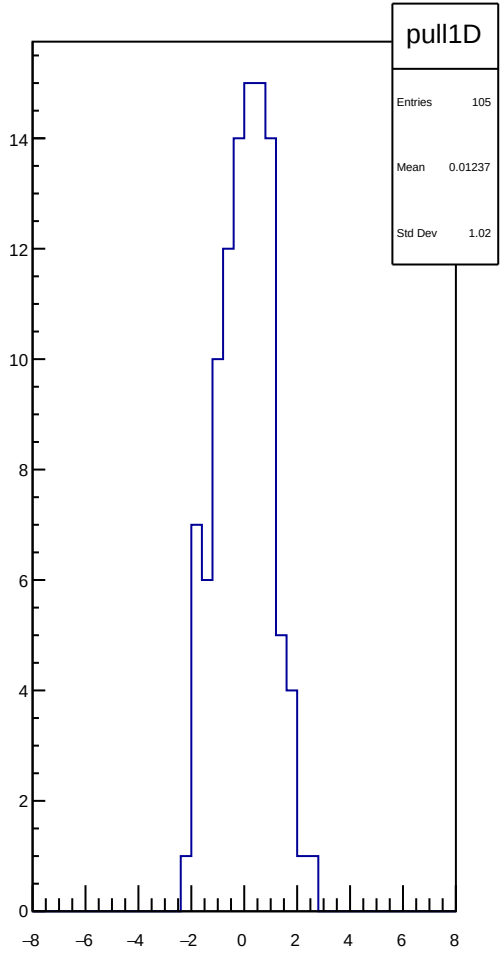

pull1D
Entries 105
Mean 0.01237
Std Dev 1.02
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

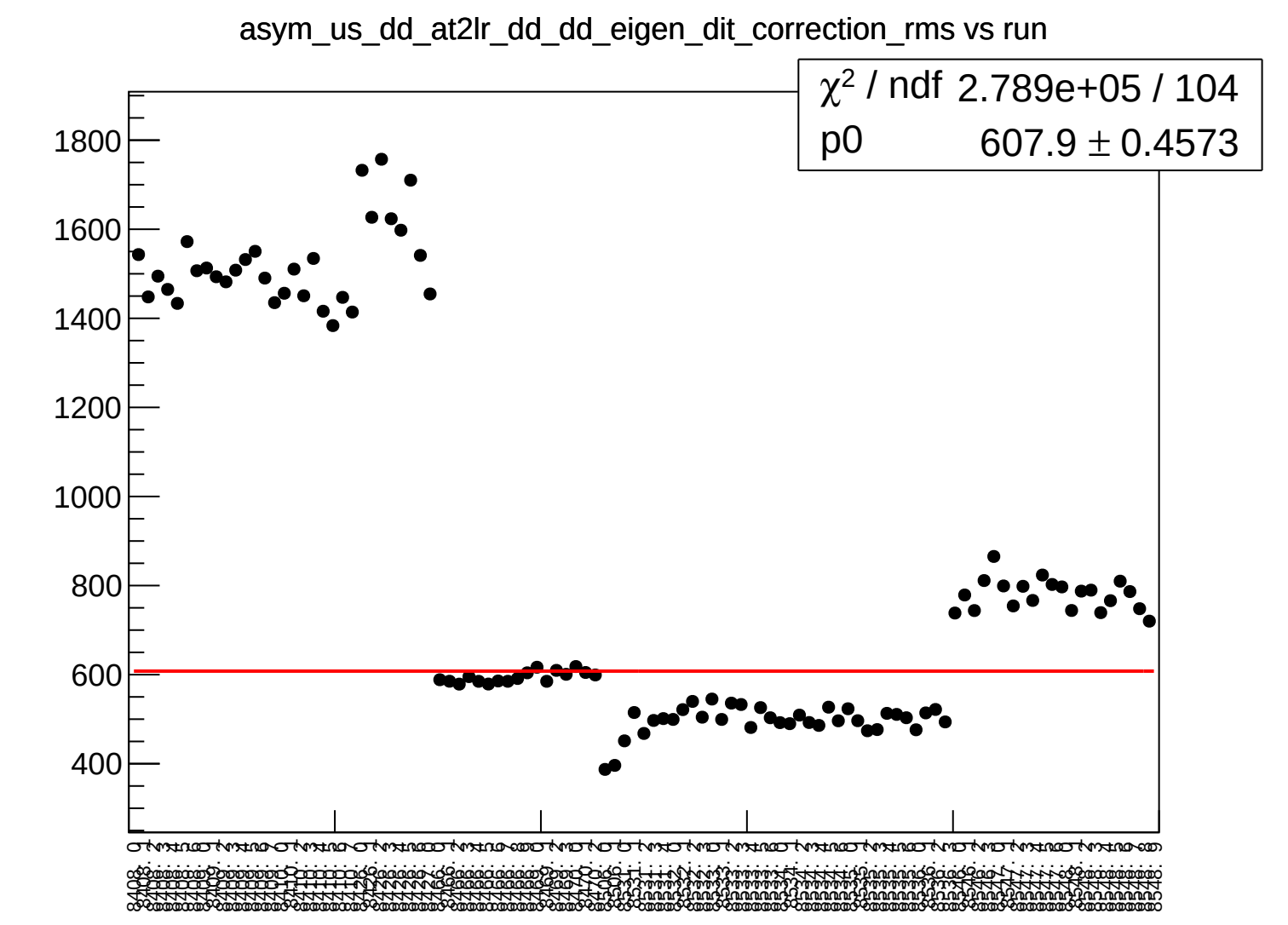

asym_us_dd_at2lr_dd_dd_dit_correction_rms vs run
χ² / ndf 2.789e+05 / 104
p0 607.9 ± 0.4573
1800
1600
1400
1200
1000
800
600
400

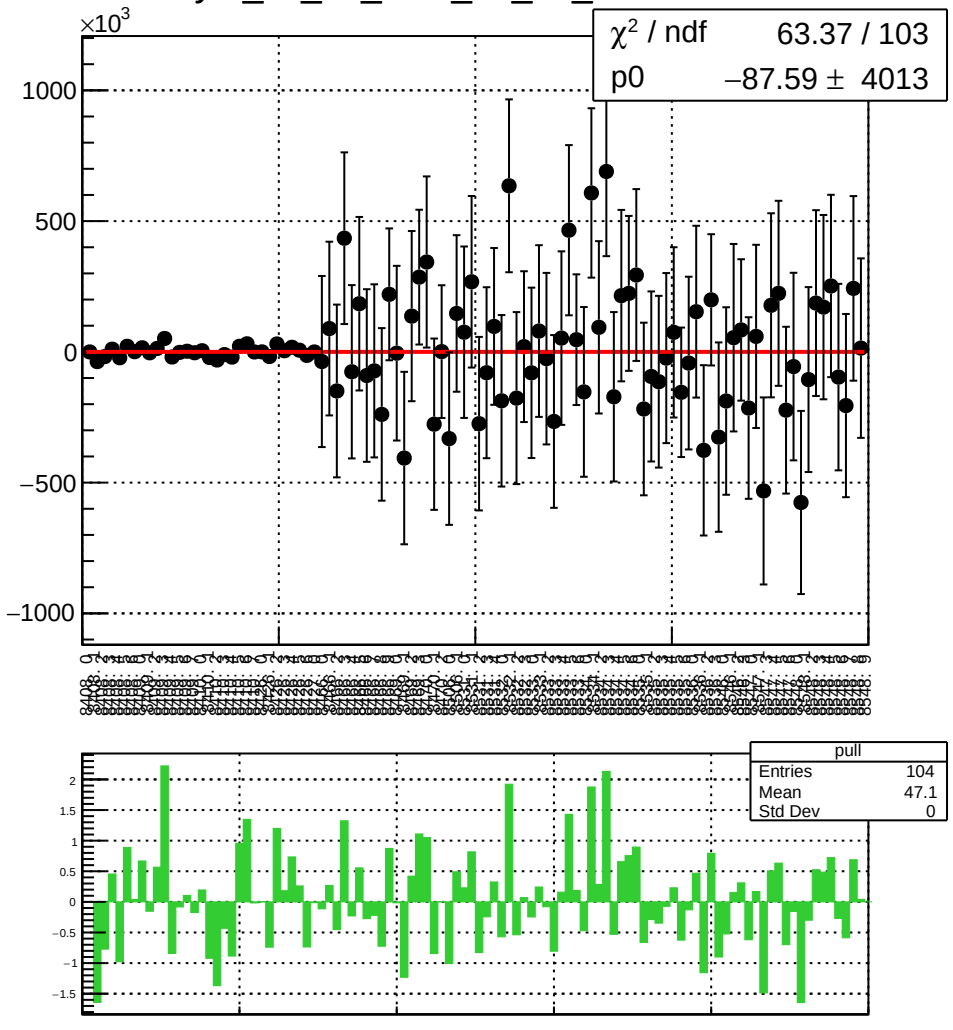

eigen_dit_asym_us_dd_at2lr_dd_dd_mean vs run
×10^3
χ^2 / ndf 66.17 / 103
p0 780.7 ± 2935
1000
500
0
−500
−1000
pull
Entries 104
Mean 43.71
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 104
Mean 0.03198
Std Dev 0.797
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

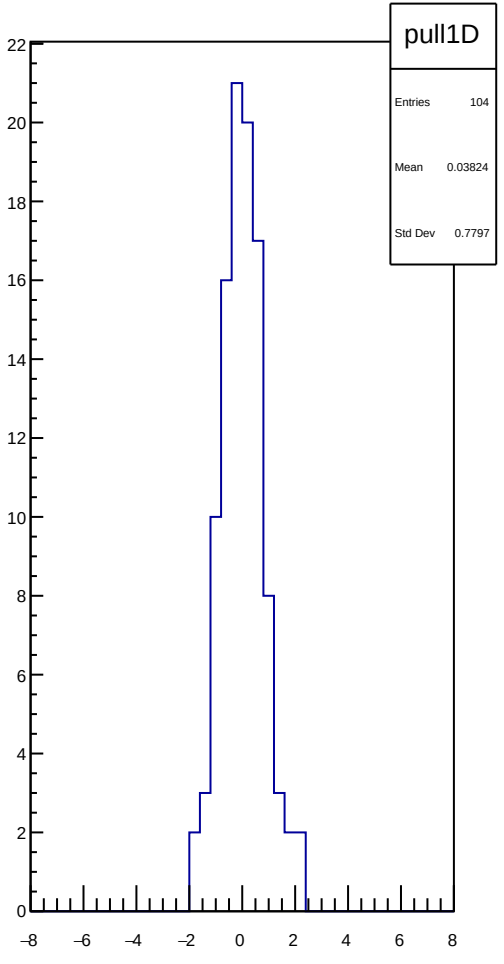

eigen_dit_asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 1.292e+06 / 104
p0 1802 ± 2.075
35000
30000
25000
20000
15000
10000
5000

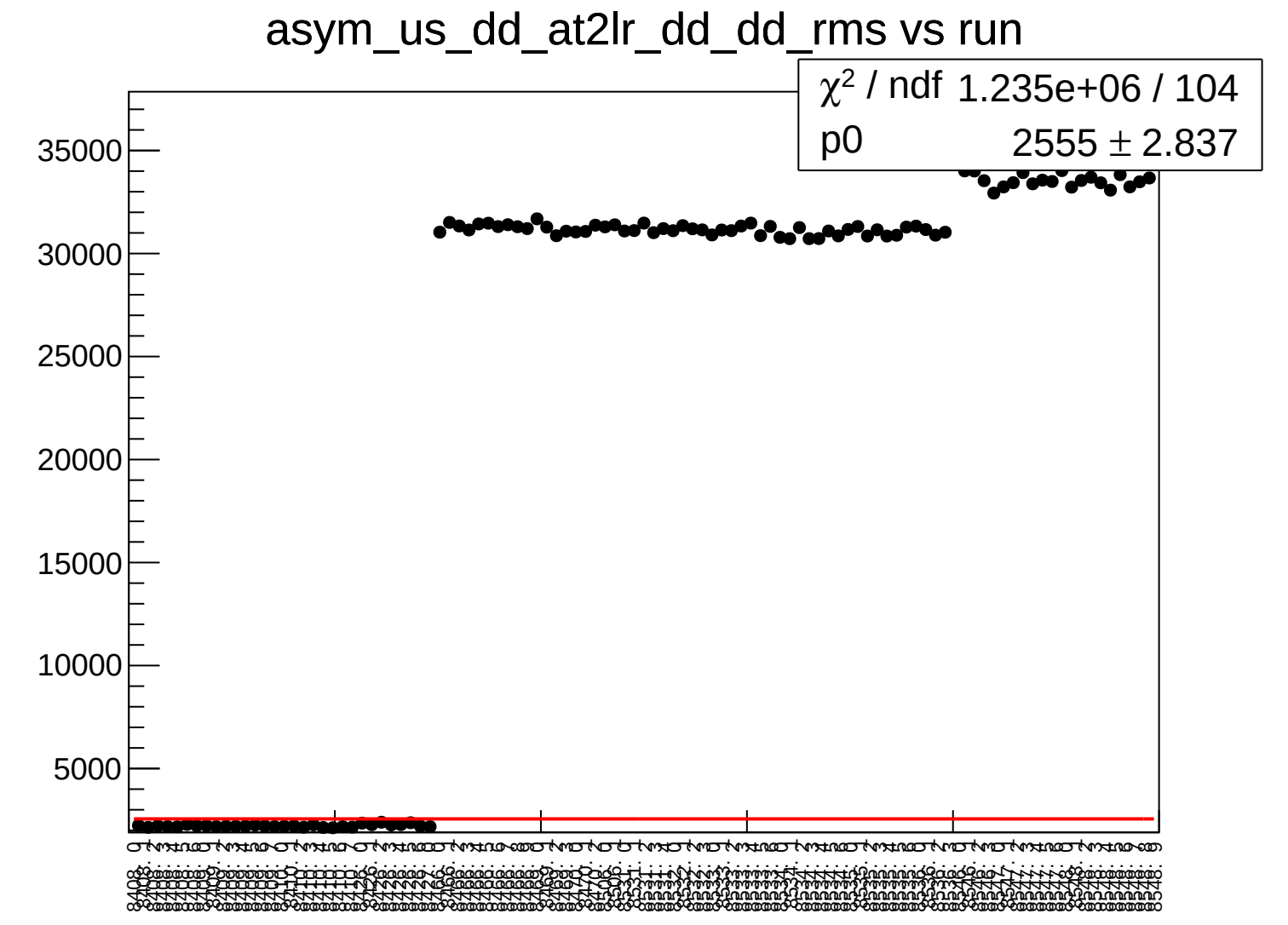

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_mean vs run
χ² / ndf 109.2 / 104
p0 −1475 ± 646.7
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean −203.2
Std Dev 0
2
1
0
−1
−2

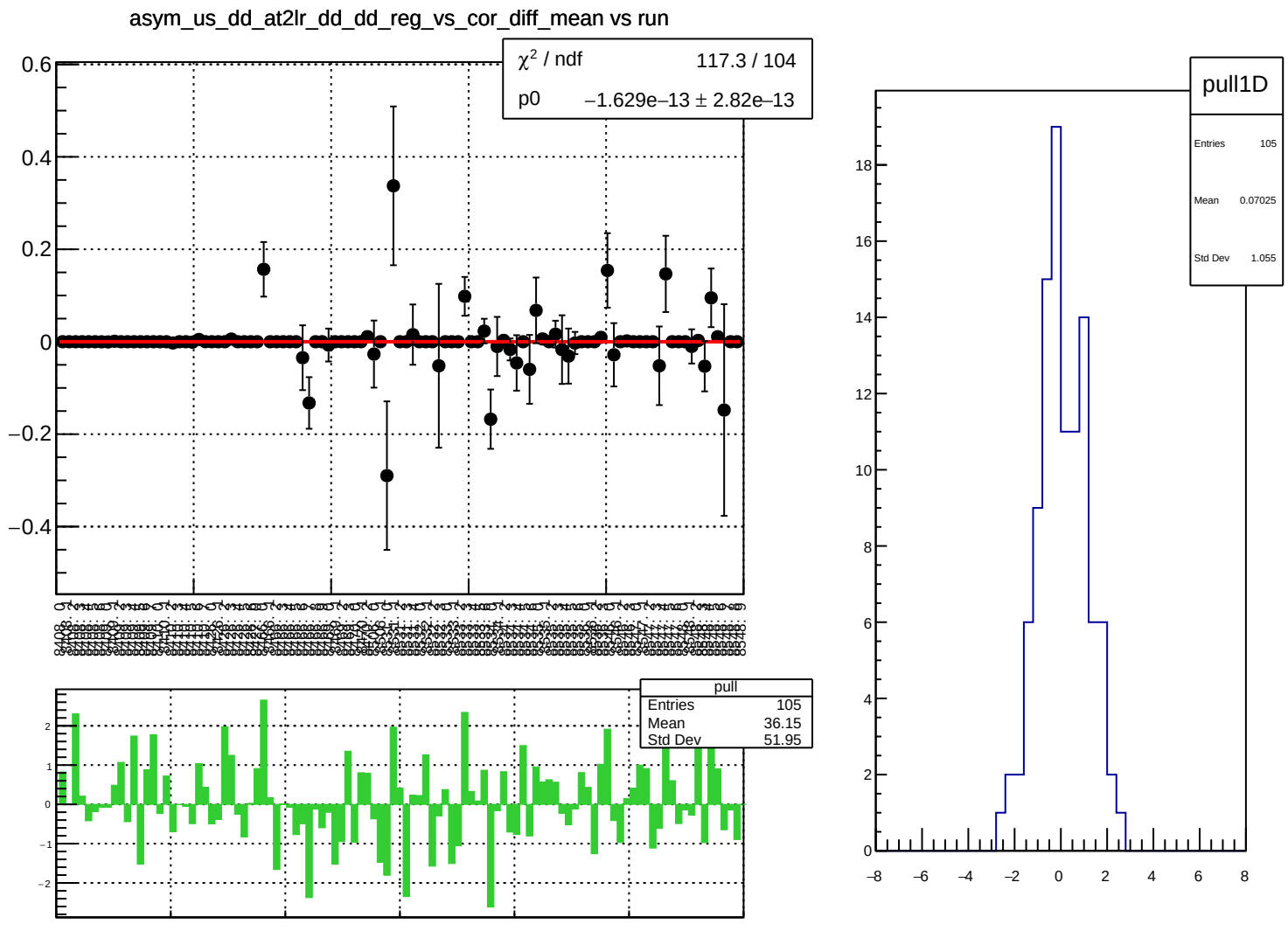

pull1D
Entries 105
Mean 0.01237
Std Dev 1.02
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

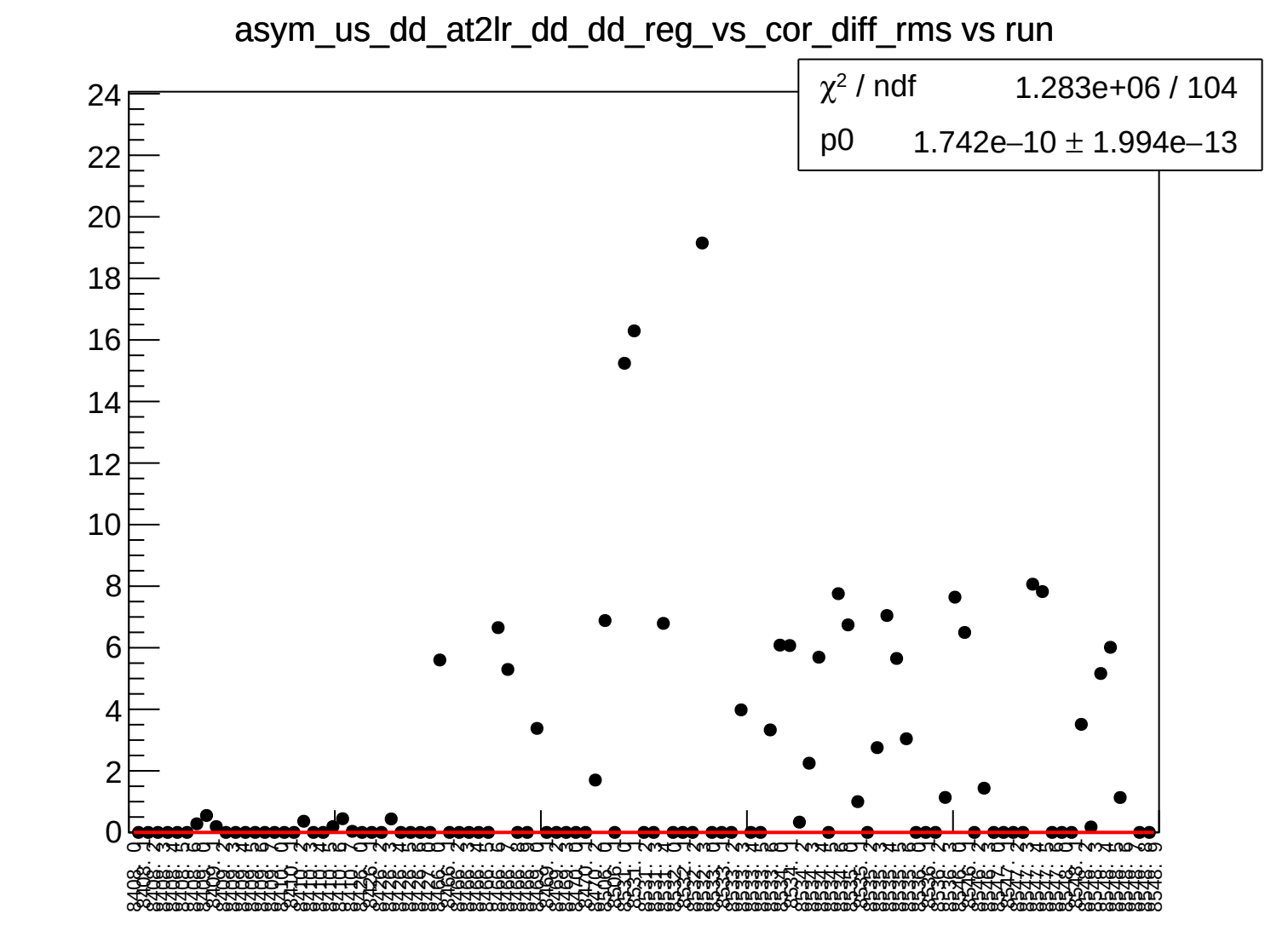

asym_us_dd_at2lr_dd_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 2.789e+05 / 104
p0 607.9 ± 0.4573
1800
1600
1400
1200
1000
800
600
400

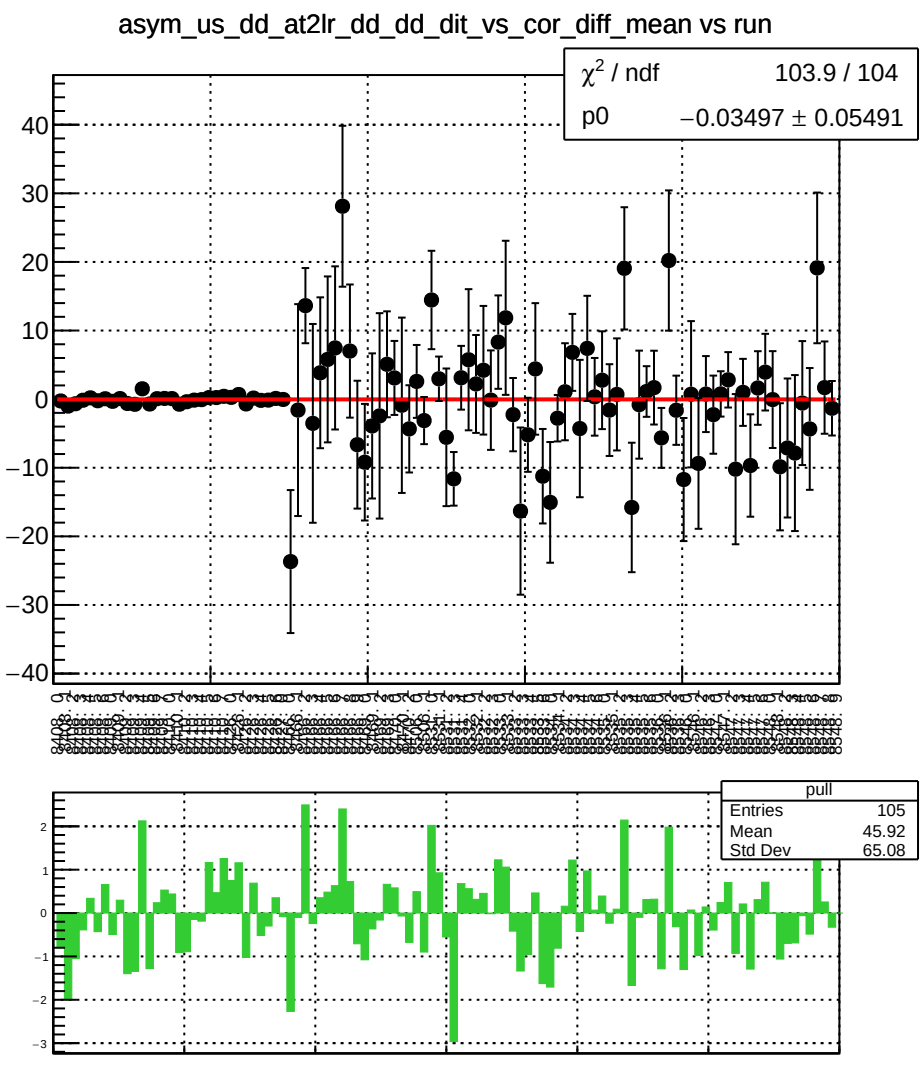

asym_us_dd_at2lr_dd_dd_mean vs run
×10^3
χ² / ndf 63.37 / 103
p0 −87.59 ± 4013
1000
500
0
−500
−1000
pull
Entries 104
Mean 47.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

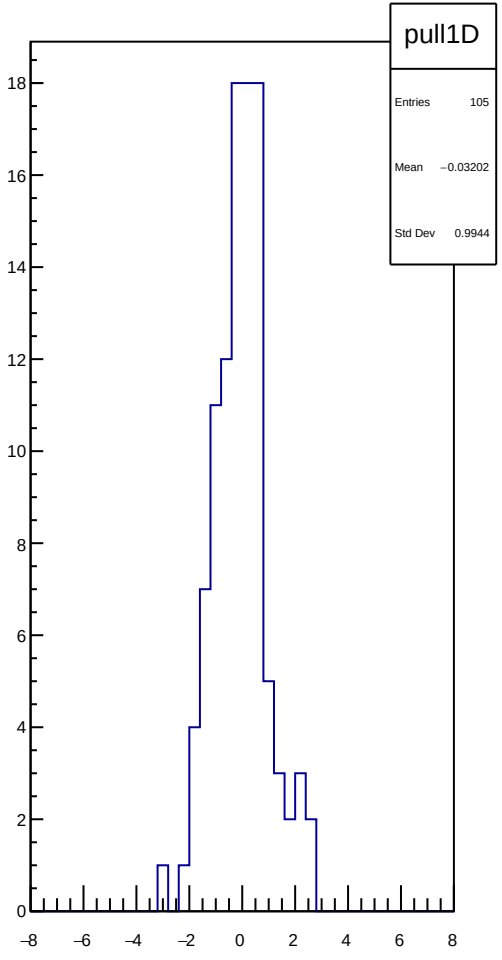

pull1D
Entries 104
Mean 0.03824
Std Dev 0.7797
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

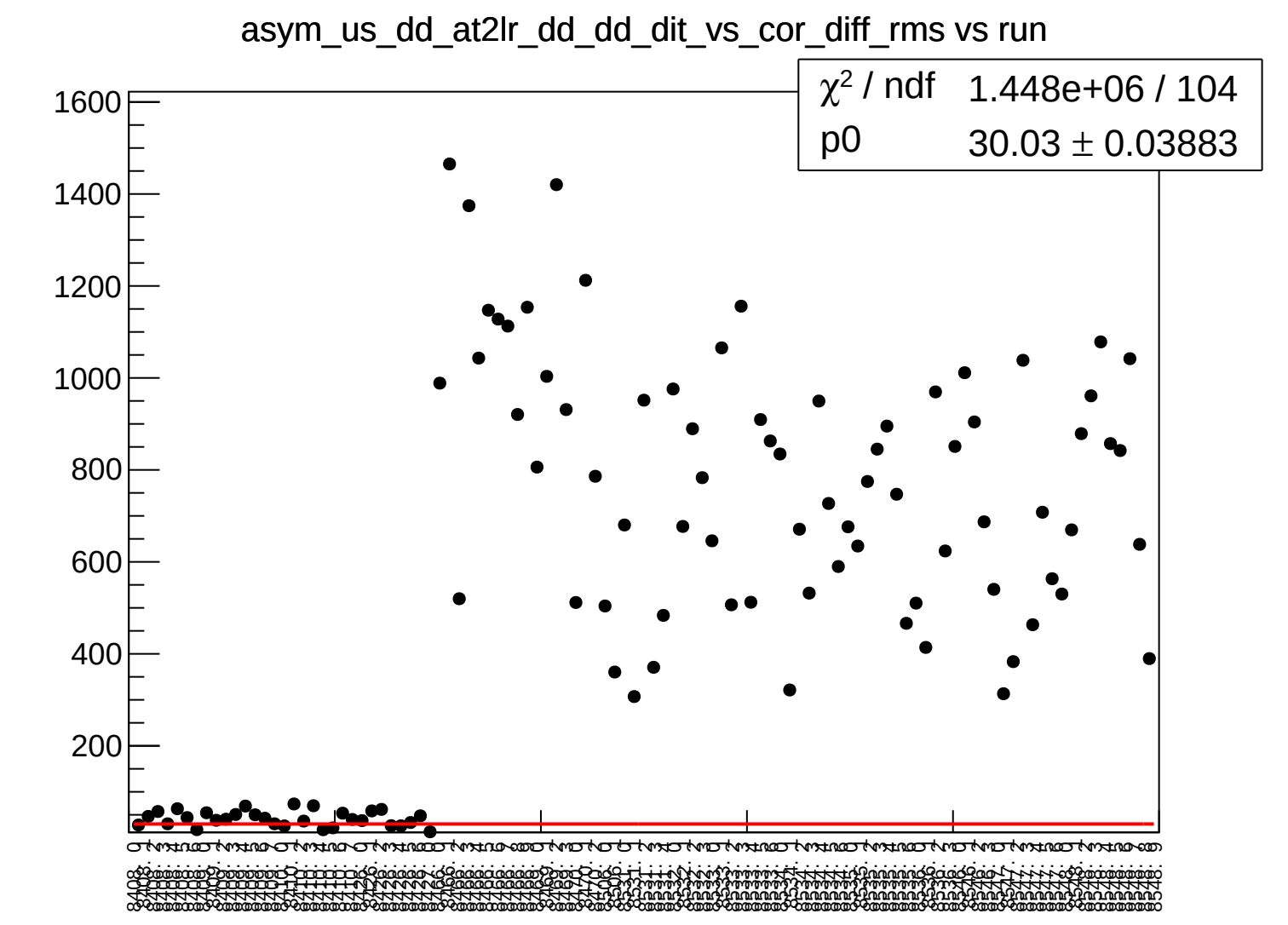

asym_us_dd_at2lr_dd_dd_rms vs run
χ² / ndf 1.235e+06 / 104
p0 2555 ± 2.837
35000
30000
25000
20000
15000
10000
5000

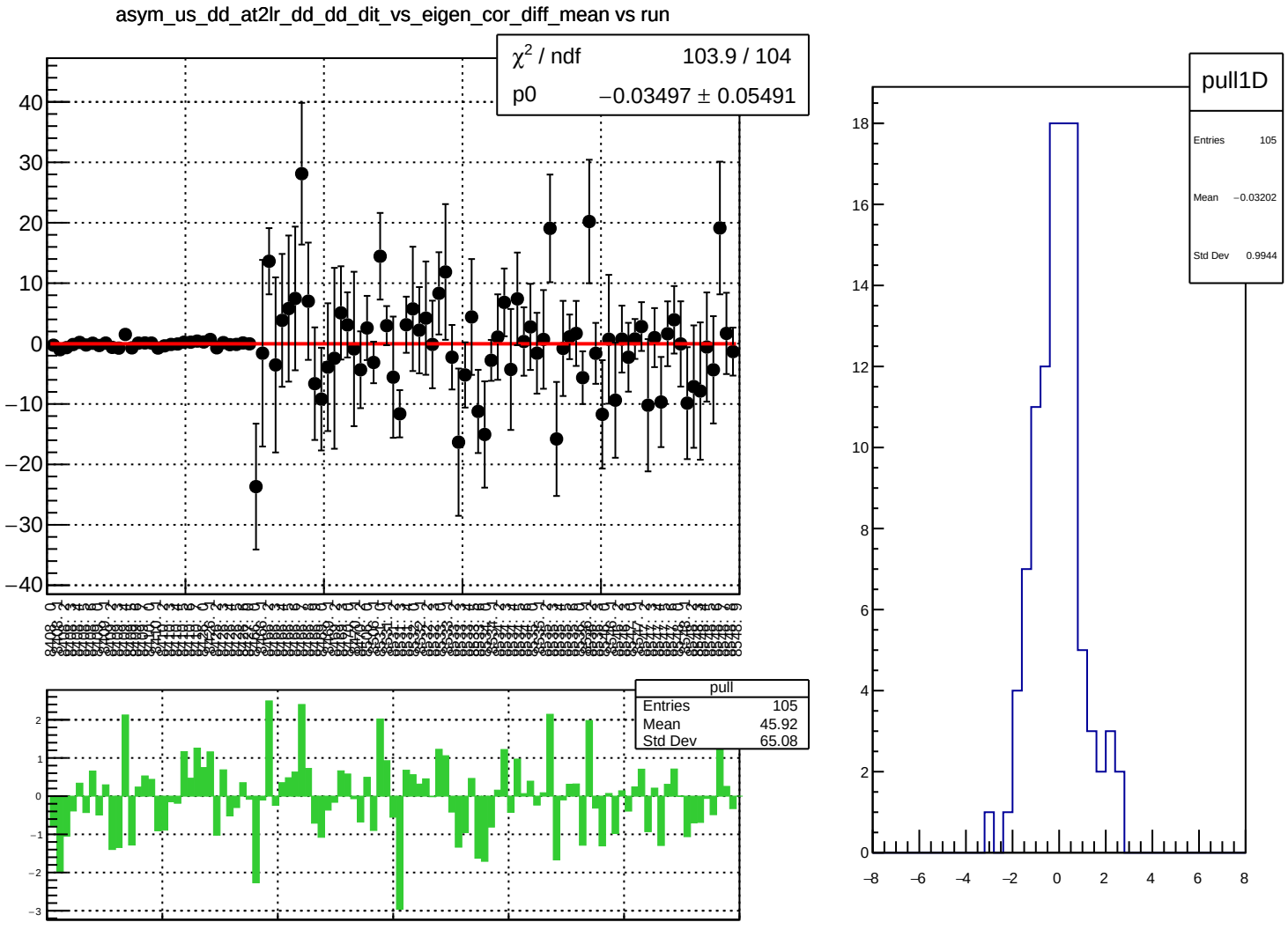

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 117.3 / 104
p0 −1.629e−13 ± 2.82e−13
pull
Entries 105
Mean 36.15
Std Dev 51.95
pull1D
Entries 105
Mean 0.07025
Std Dev 1.055

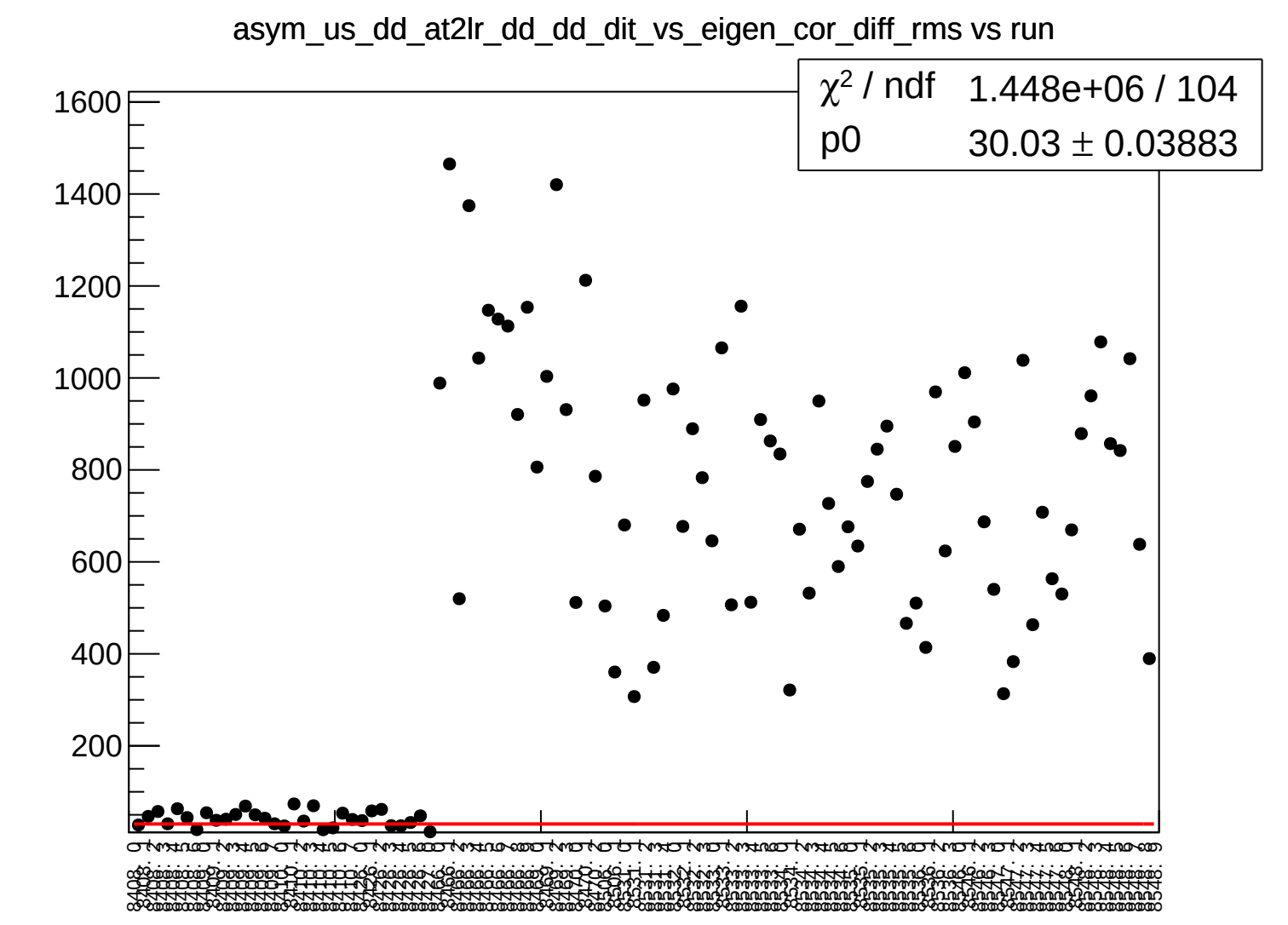

asym_us_dd_at2lr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.283e+06 / 104
p0 1.742e−10 ± 1.994e−13
24
22
20
18
16
14
12
10
8
6
4
2
0

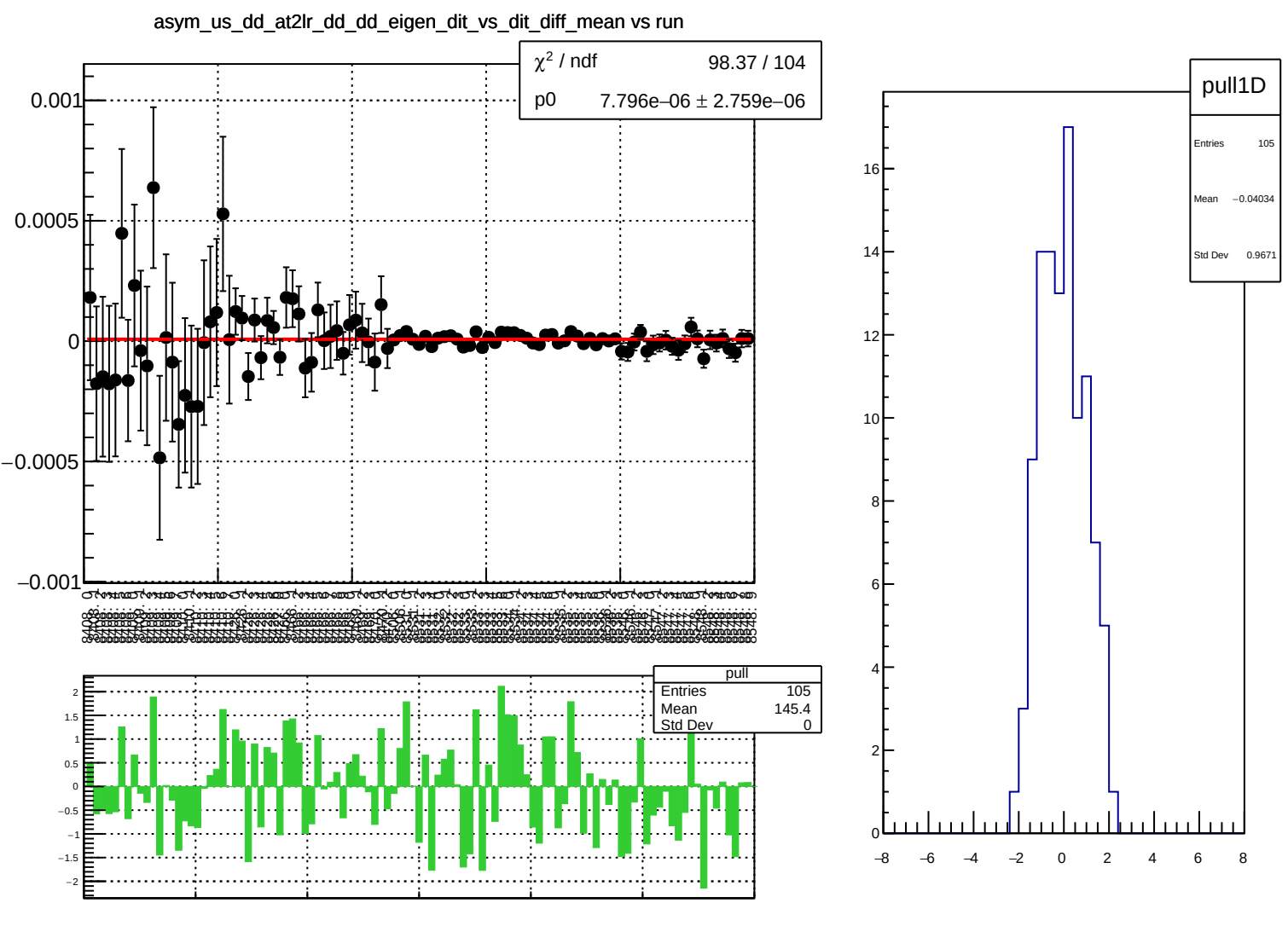

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 103.9 / 104
p0 −0.03497 ± 0.05491
pull
Entries 105
Mean 45.92
Std Dev 65.08

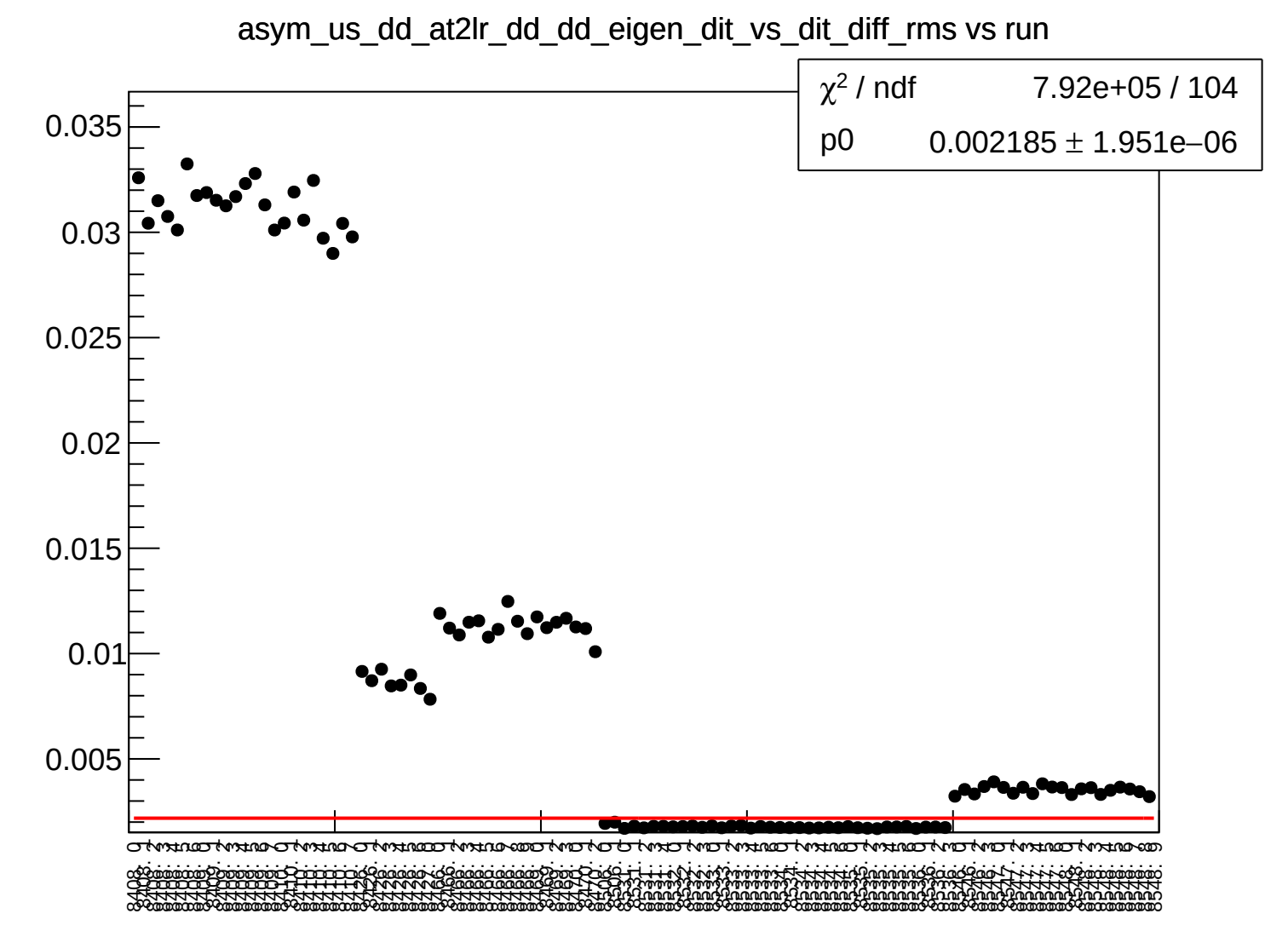

pull1D
Entries 105
Mean −0.03202
Std Dev 0.9944

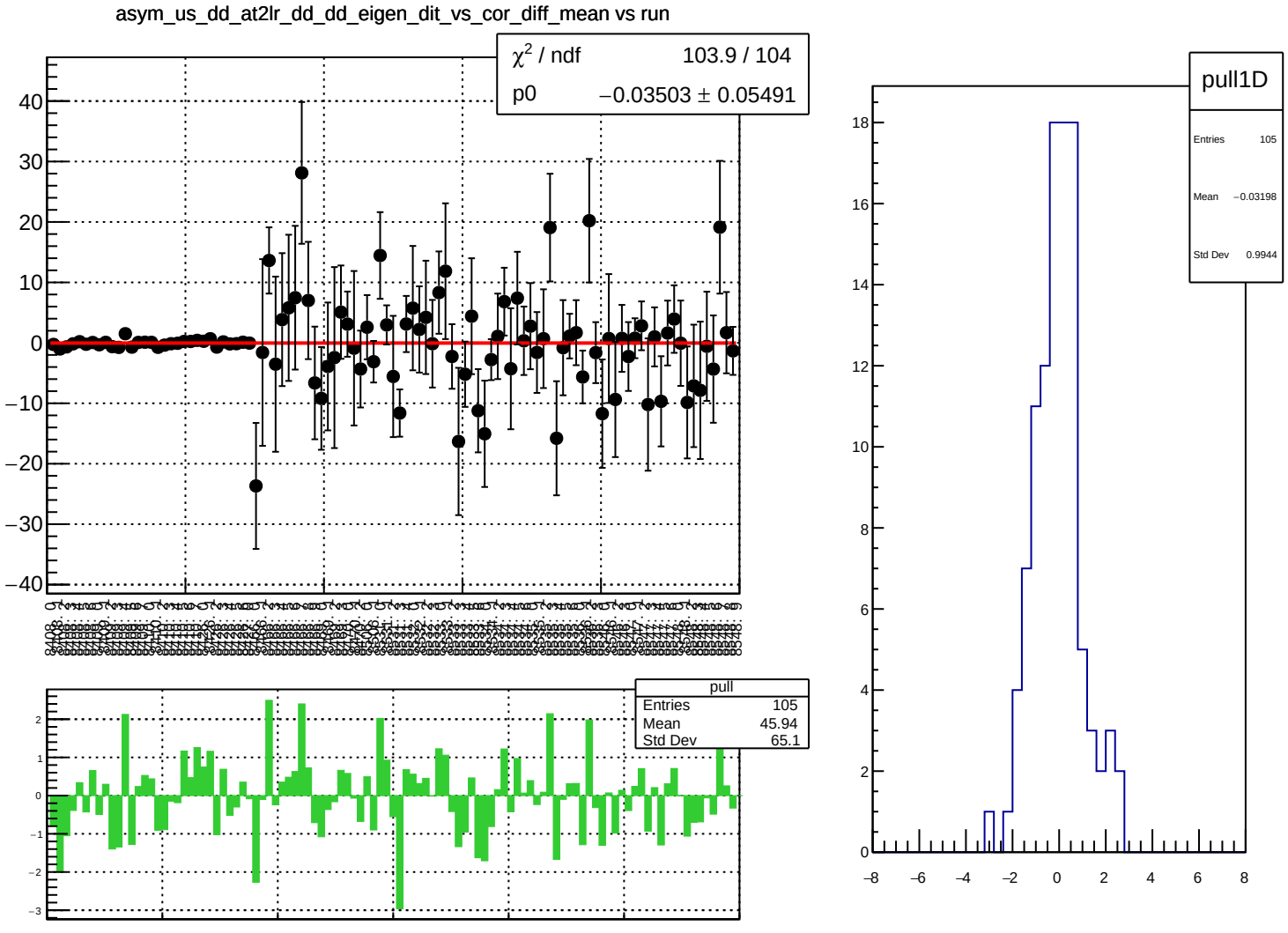

asym_us_dd_at2lr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.448e+06 / 104
p0 30.03 ± 0.03883
1600
1400
1200
1000
800
600
400
200

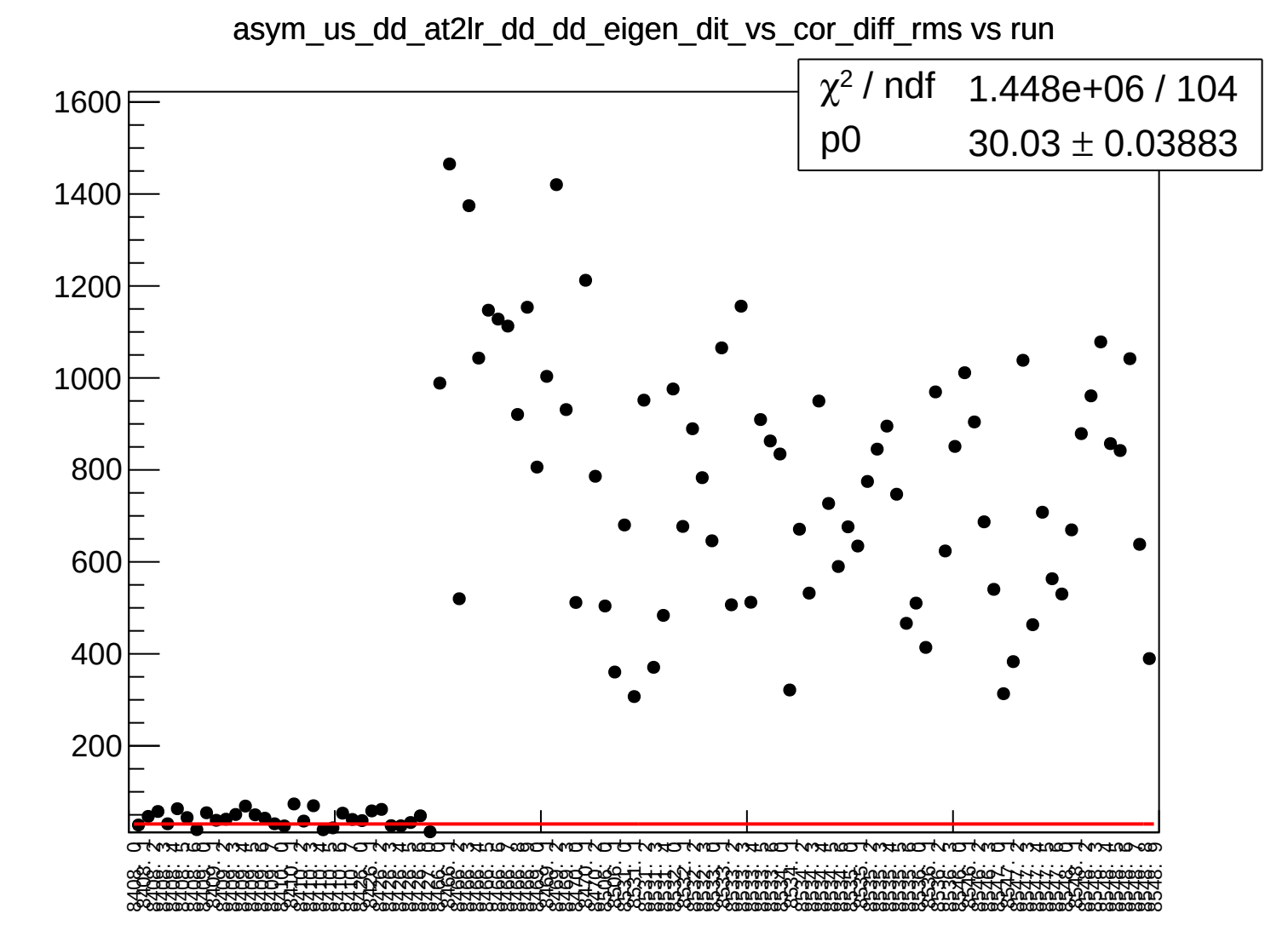

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.9 / 104
p0 −0.03497 ± 0.05491
pull
Entries 105
Mean 45.92
Std Dev 65.08
pull1D
Entries 105
Mean −0.03202
Std Dev 0.9944

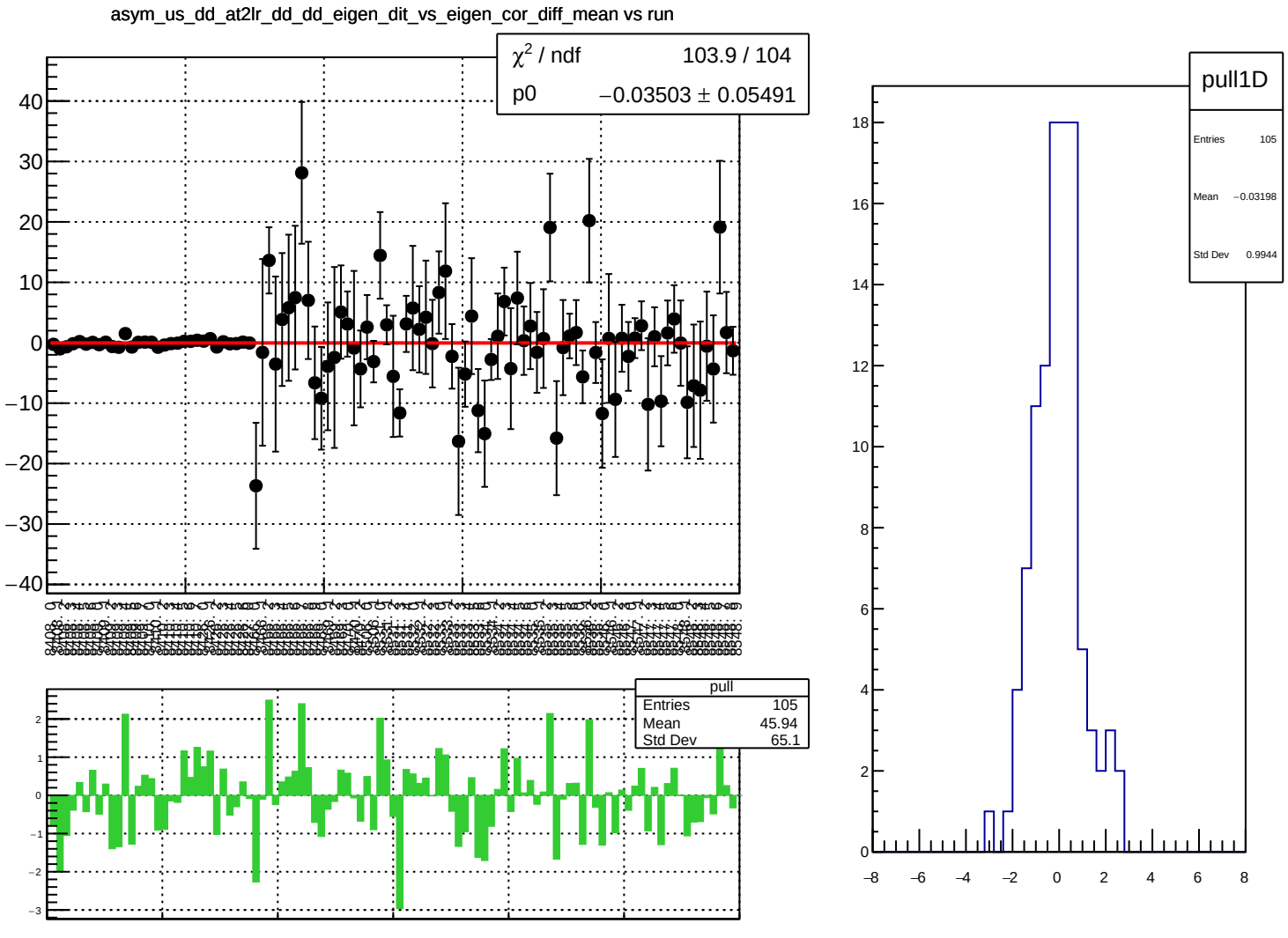

asym_us_dd_at2lr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.448e+06 / 104
p0 30.03 ± 0.03883
1600
1400
1200
1000
800
600
400
200

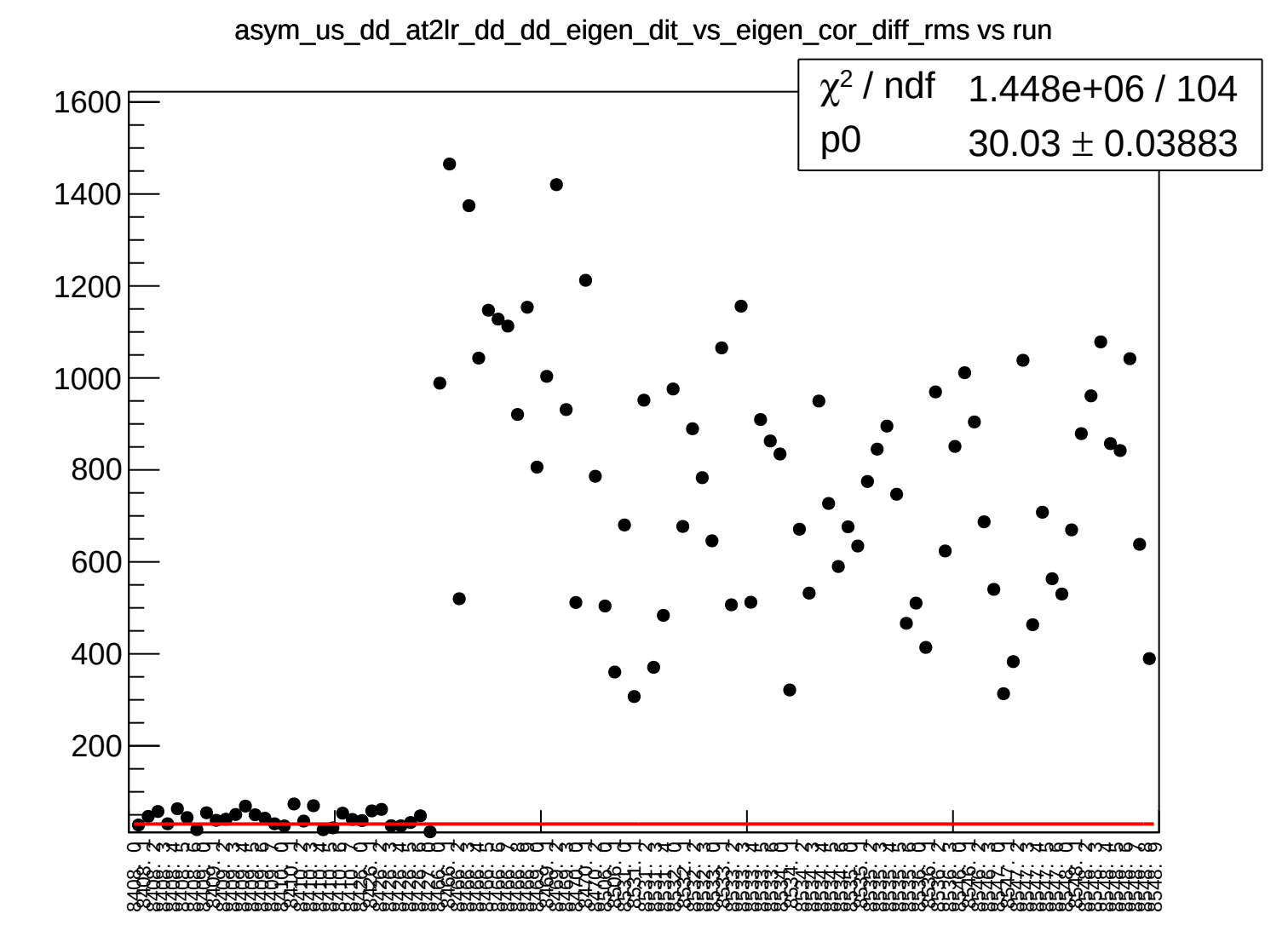

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
χ² / ndf 98.37 / 104
p0 7.796e−06 ± 2.759e−06
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 105
Mean 145.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 105
Mean −0.04034
Std Dev 0.9671
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

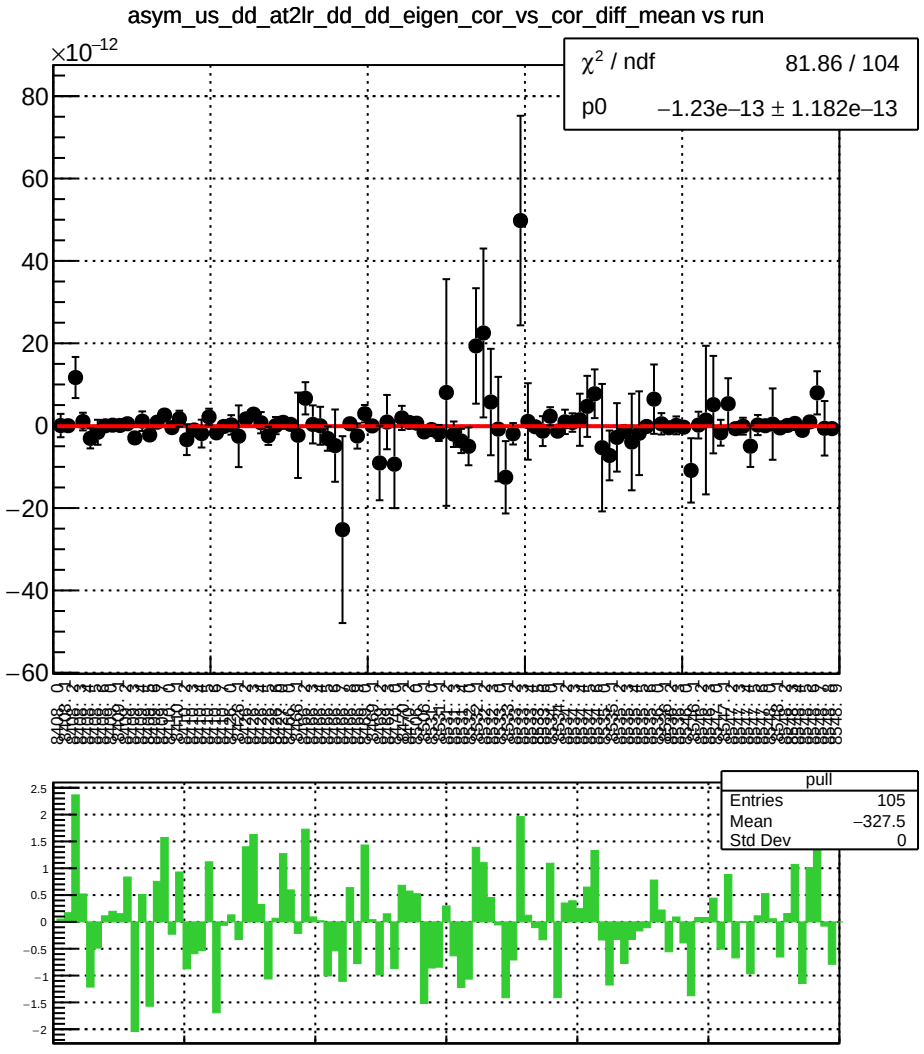

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.92e+05 / 104
p0 0.002185 ± 1.951e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

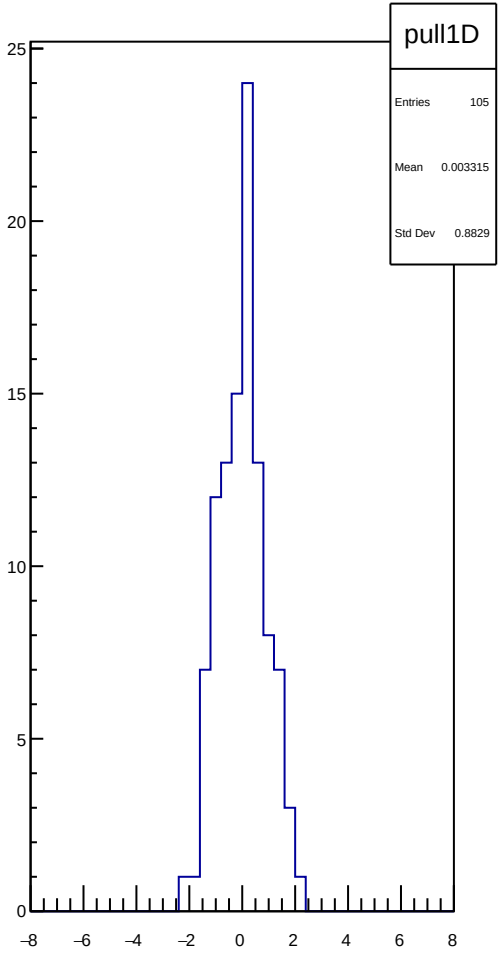

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 103.9 / 104
p0 −0.03503 ± 0.05491
pull
Entries 105
Mean 45.94
Std Dev 65.1
pull1D
Entries 105
Mean −0.03198
Std Dev 0.9944

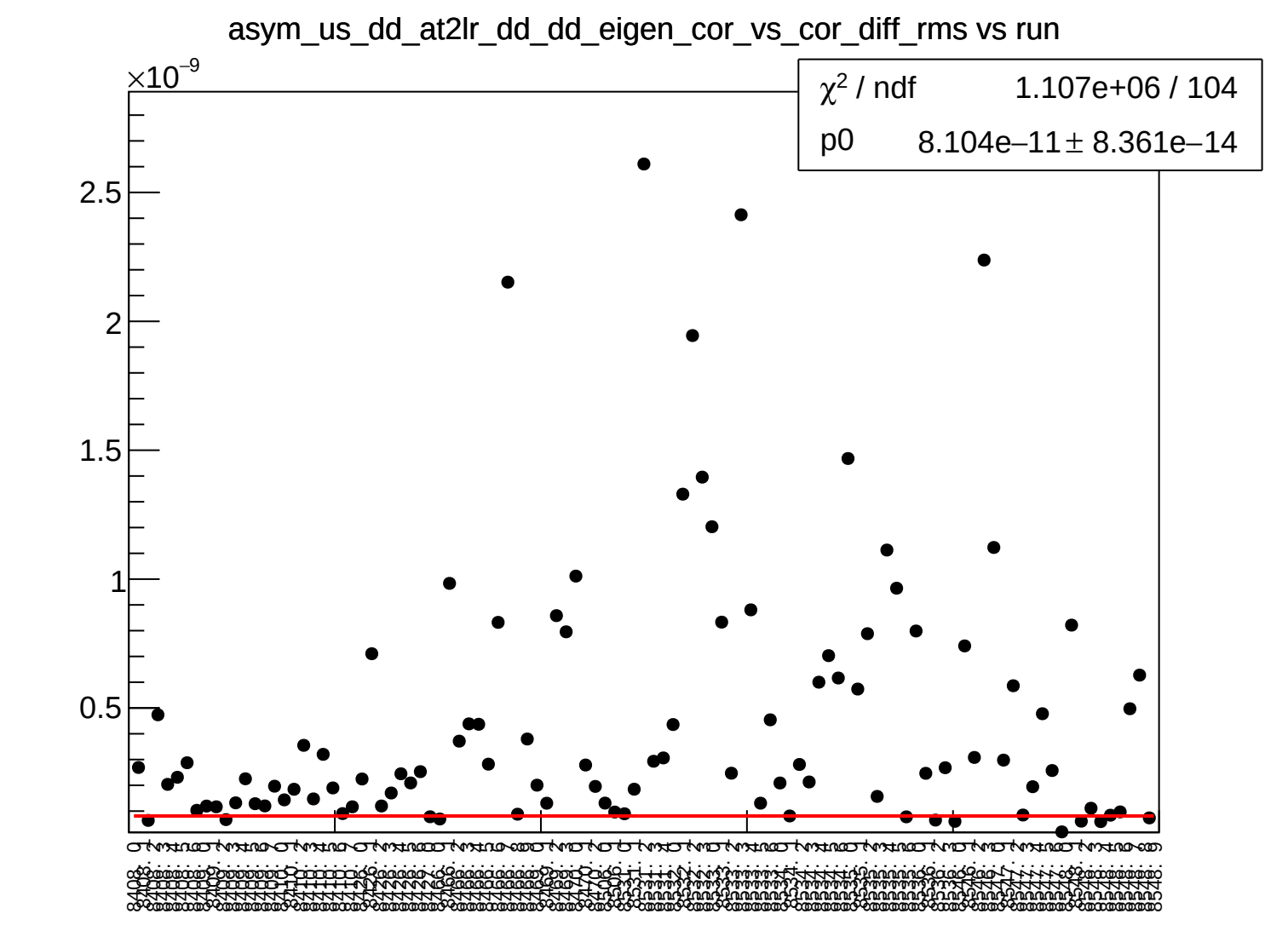

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.448e+06 / 104
p0 30.03 ± 0.03883
1600
1400
1200
1000
800
600
400
200

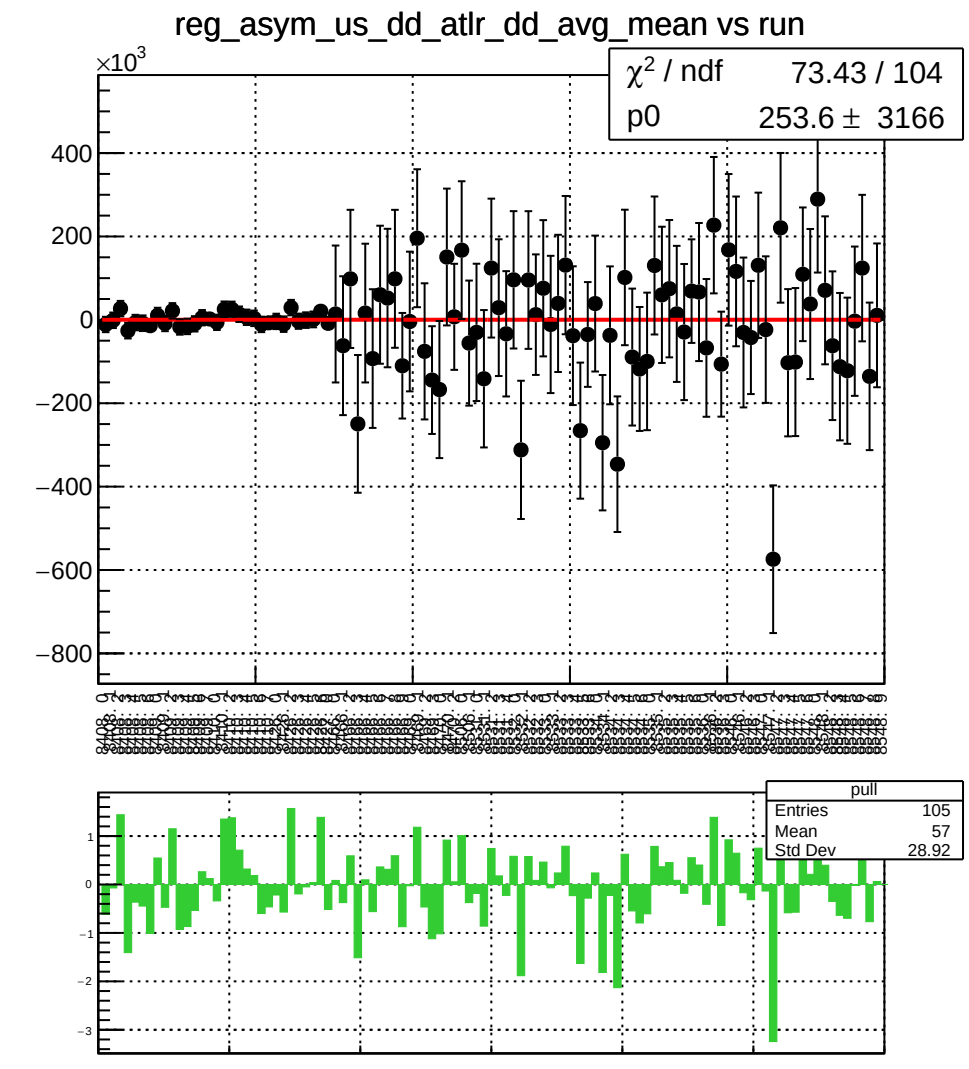

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.9 / 104
p0 −0.03503 ± 0.05491
pull
Entries 105
Mean 45.94
Std Dev 65.1
pull1D
Entries 105
Mean −0.03198
Std Dev 0.9944

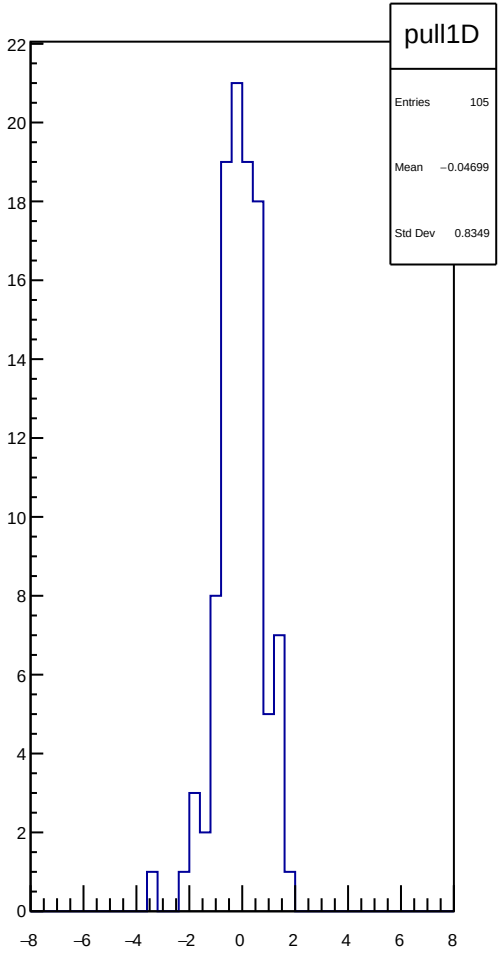

asym_us_dd_at2lr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.448e+06 / 104
p0 30.03 ± 0.03883
1600
1400
1200
1000
800
600
400
200

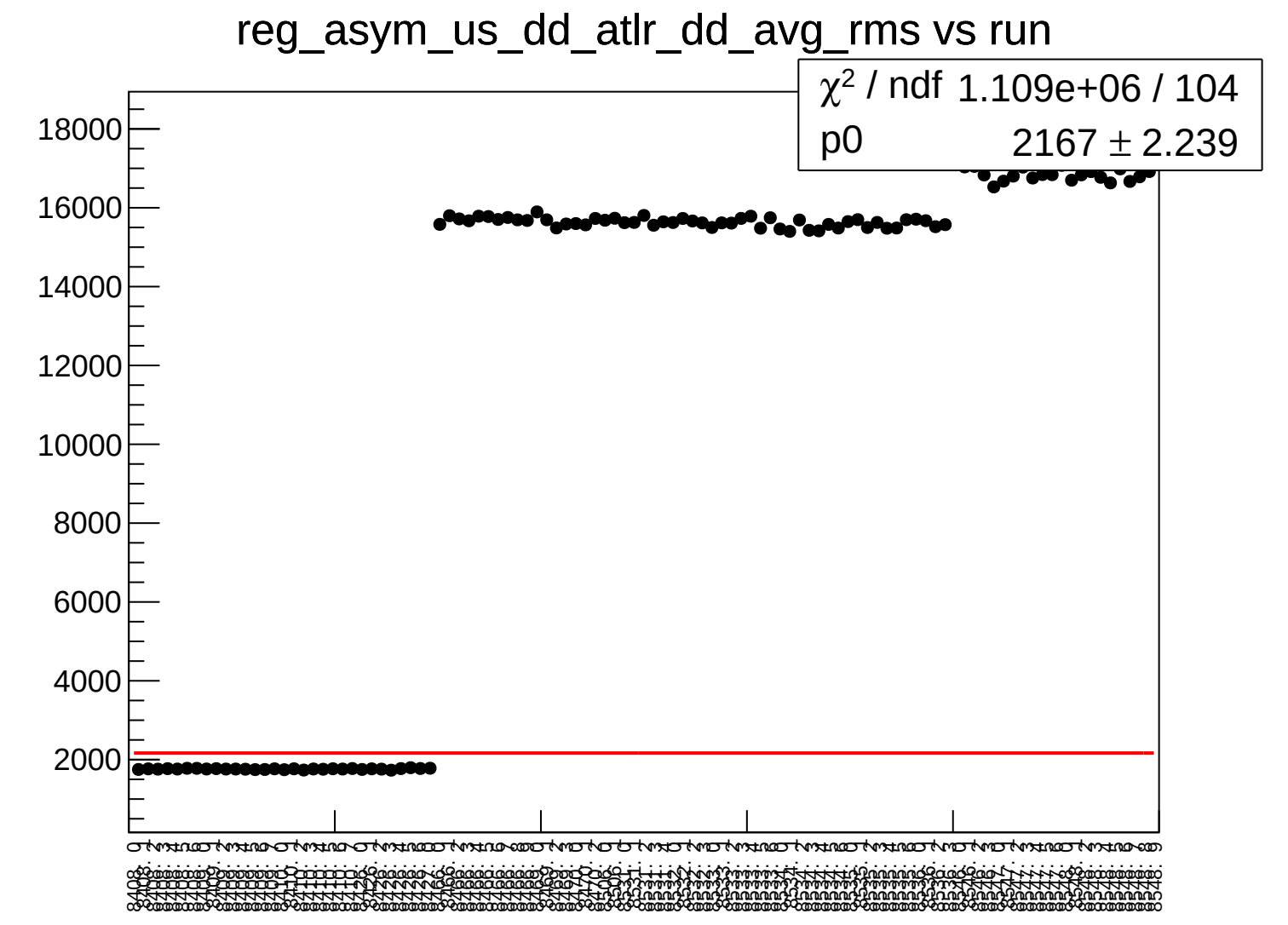

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 81.86 / 104
p0 −1.23e−13 ± 1.182e−13
pull
Entries 105
Mean −327.5
Std Dev 0

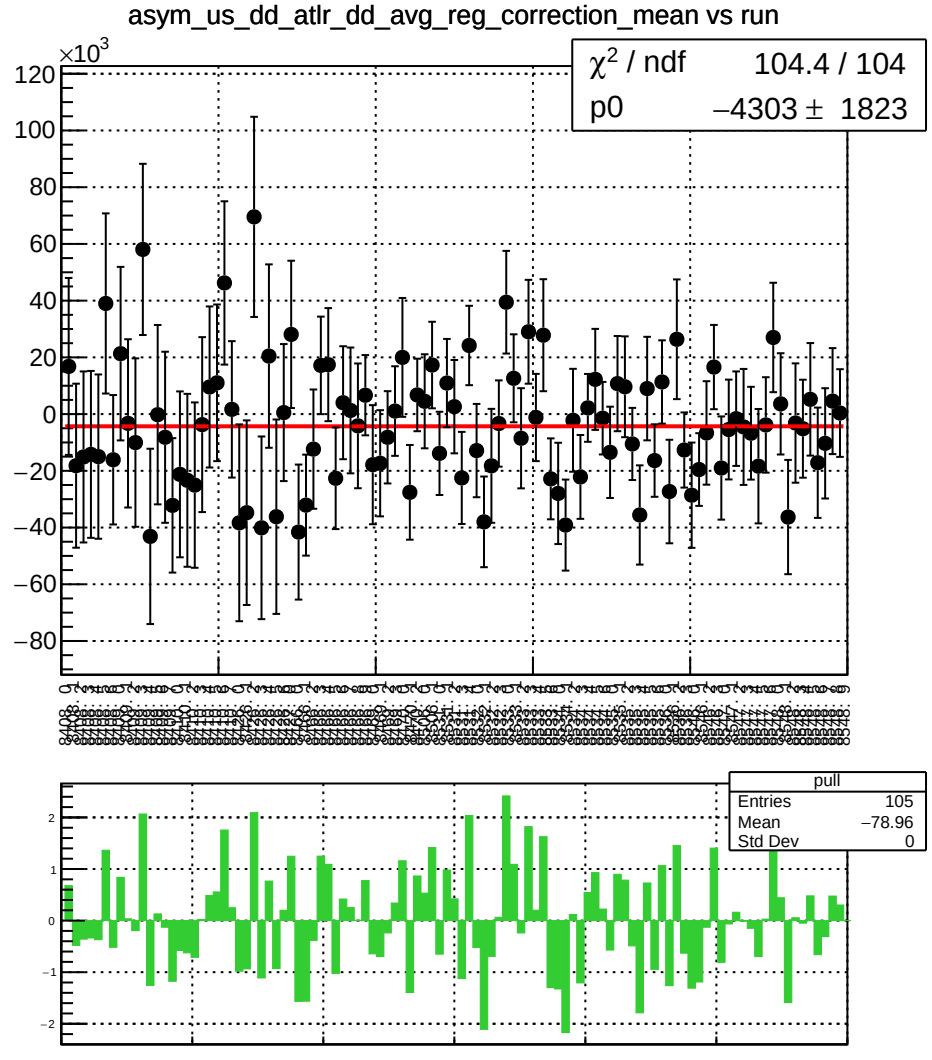

pull1D
Entries 105
Mean 0.003315
Std Dev 0.8829

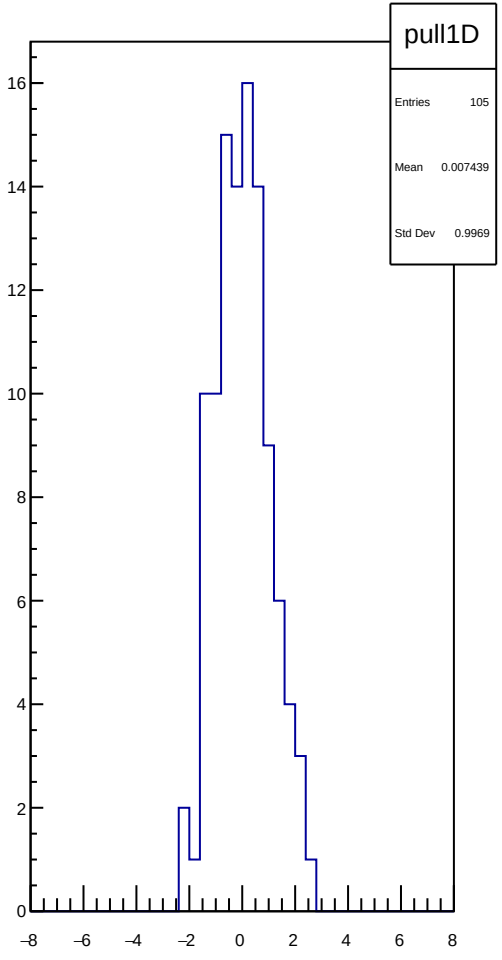

asym_us_dd_at2lr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.107e+06 / 104
p0 8.104e−11 ± 8.361e−14
2.5
2
1.5
1
0.5

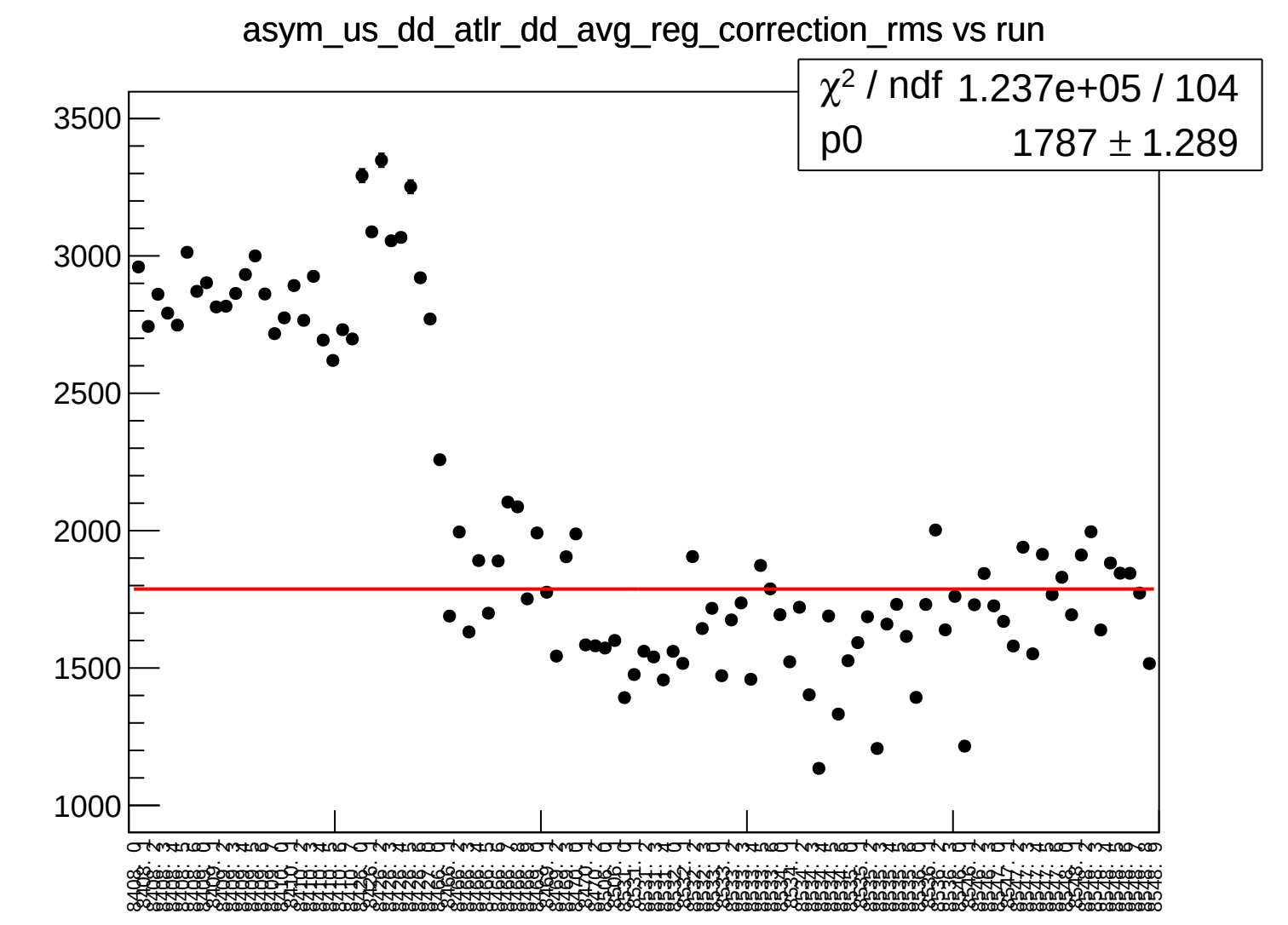

reg_asym_us_dd_atlr_dd_avg_mean vs run
×10^3
χ^2 / ndf 73.43 / 104
p0 253.6 ± 3166
400
200
0
−200
−400
−600
−800
pull
Entries 105
Mean 57
Std Dev 28.92
1
0
−1
−2
−3

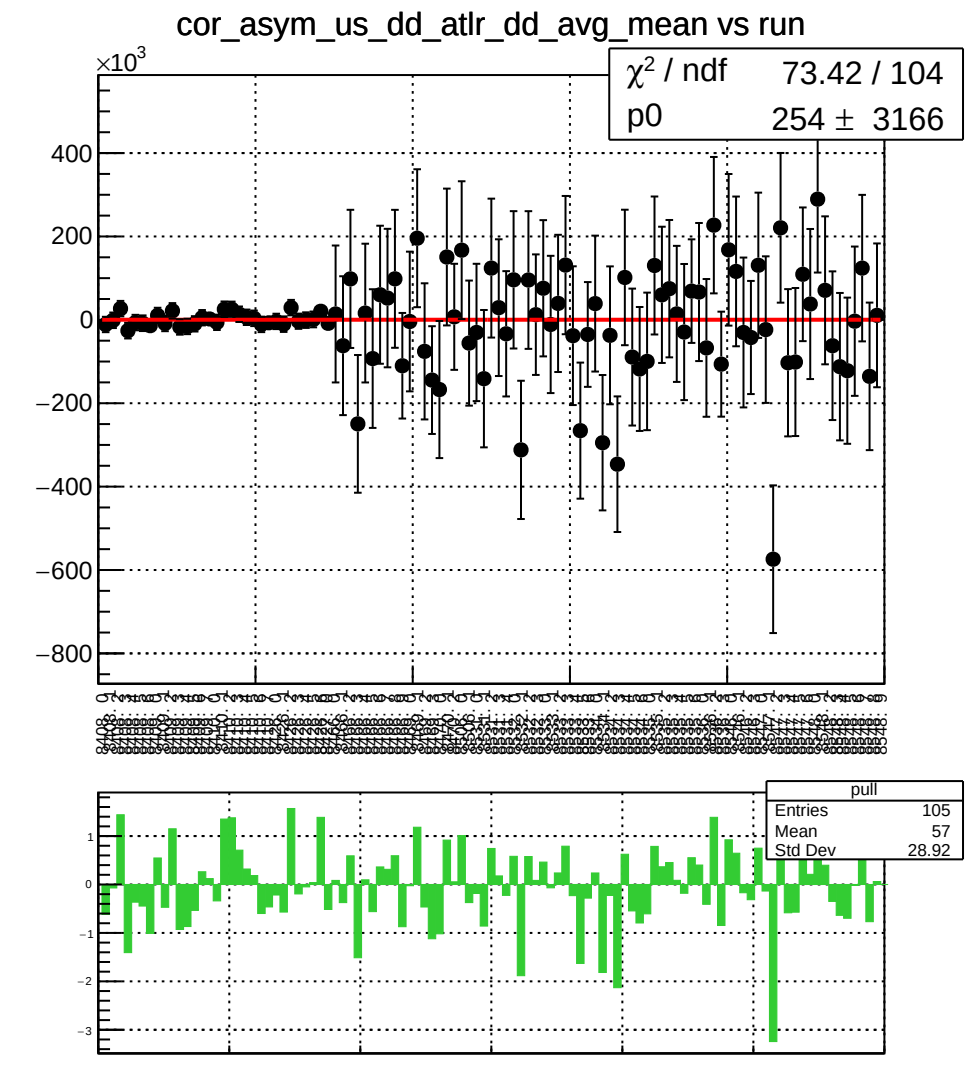

pull1D
Entries 105
Mean −0.04699
Std Dev 0.8349
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

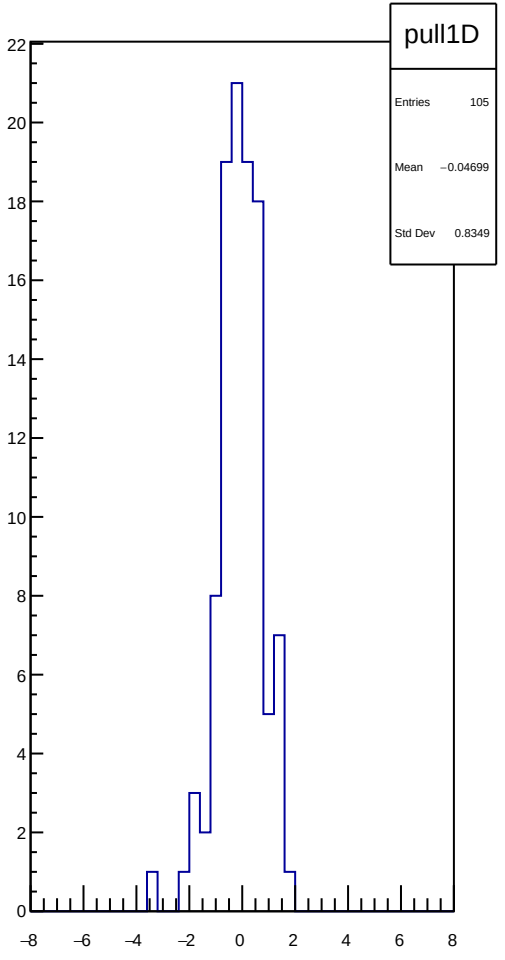

reg_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 1.109e+06 / 104
p0 2167 ± 2.239
18000
16000
14000
12000
10000
8000
6000
4000
2000

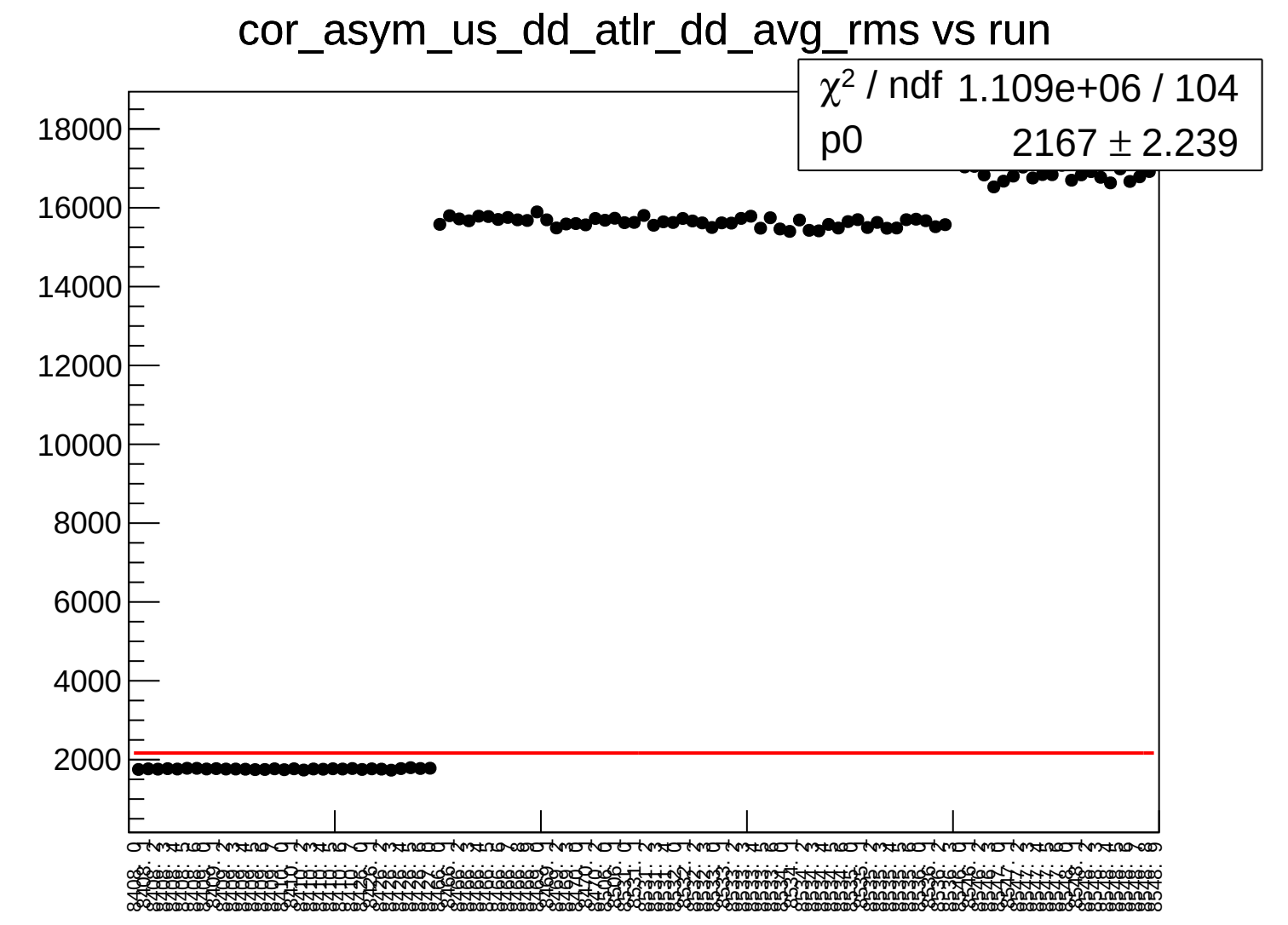

asym_us_dd_atlr_dd_avg_reg_correction_mean vs run
×10^3
χ^2 / ndf 104.4 / 104
p0 −4303 ± 1823
pull
Entries 105
Mean −78.96
Std Dev 0

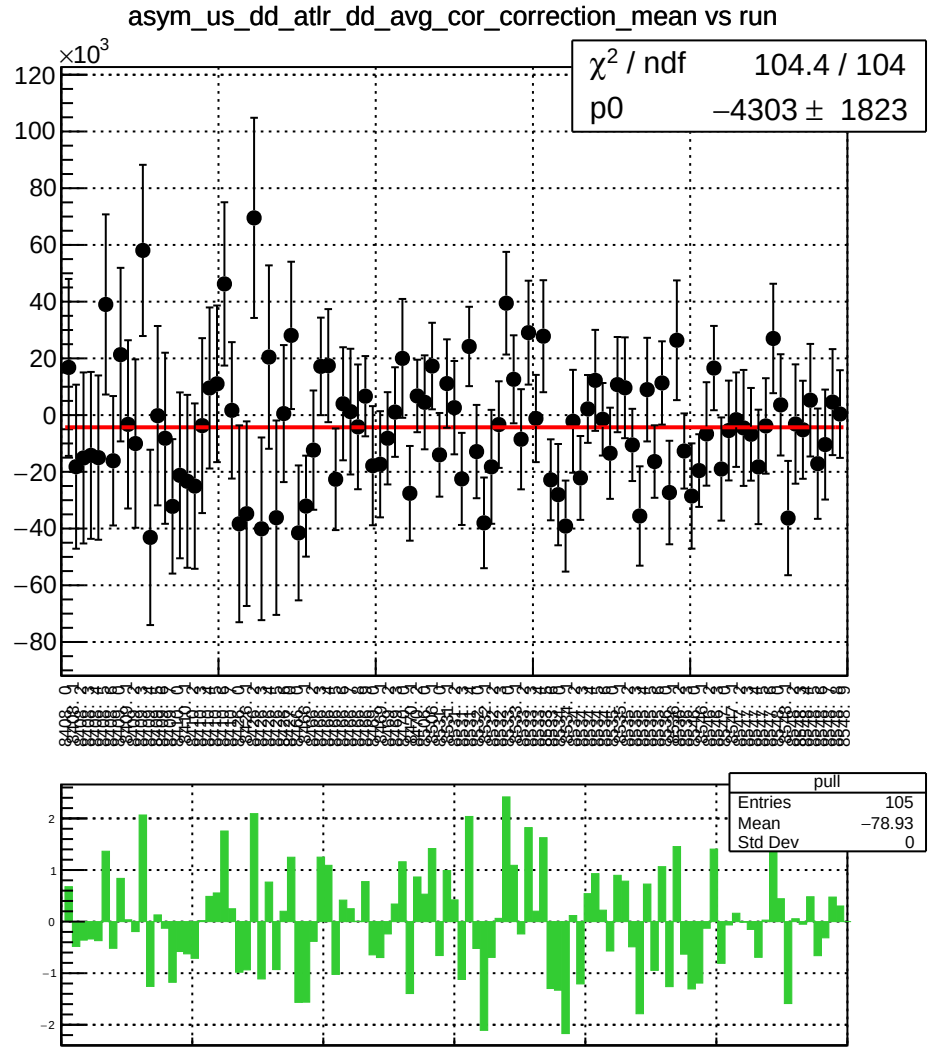

pull1D
Entries 105
Mean 0.007439
Std Dev 0.9969

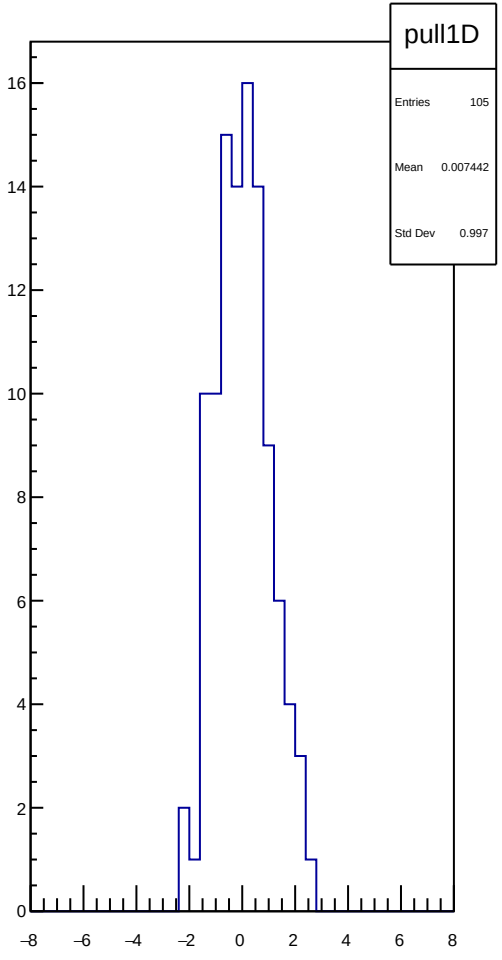

asym_us_dd_atlr_dd_avg_reg_correction_rms vs run
χ² / ndf 1.237e+05 / 104
p0 1787 ± 1.289
3500
3000
2500
2000
1500
1000

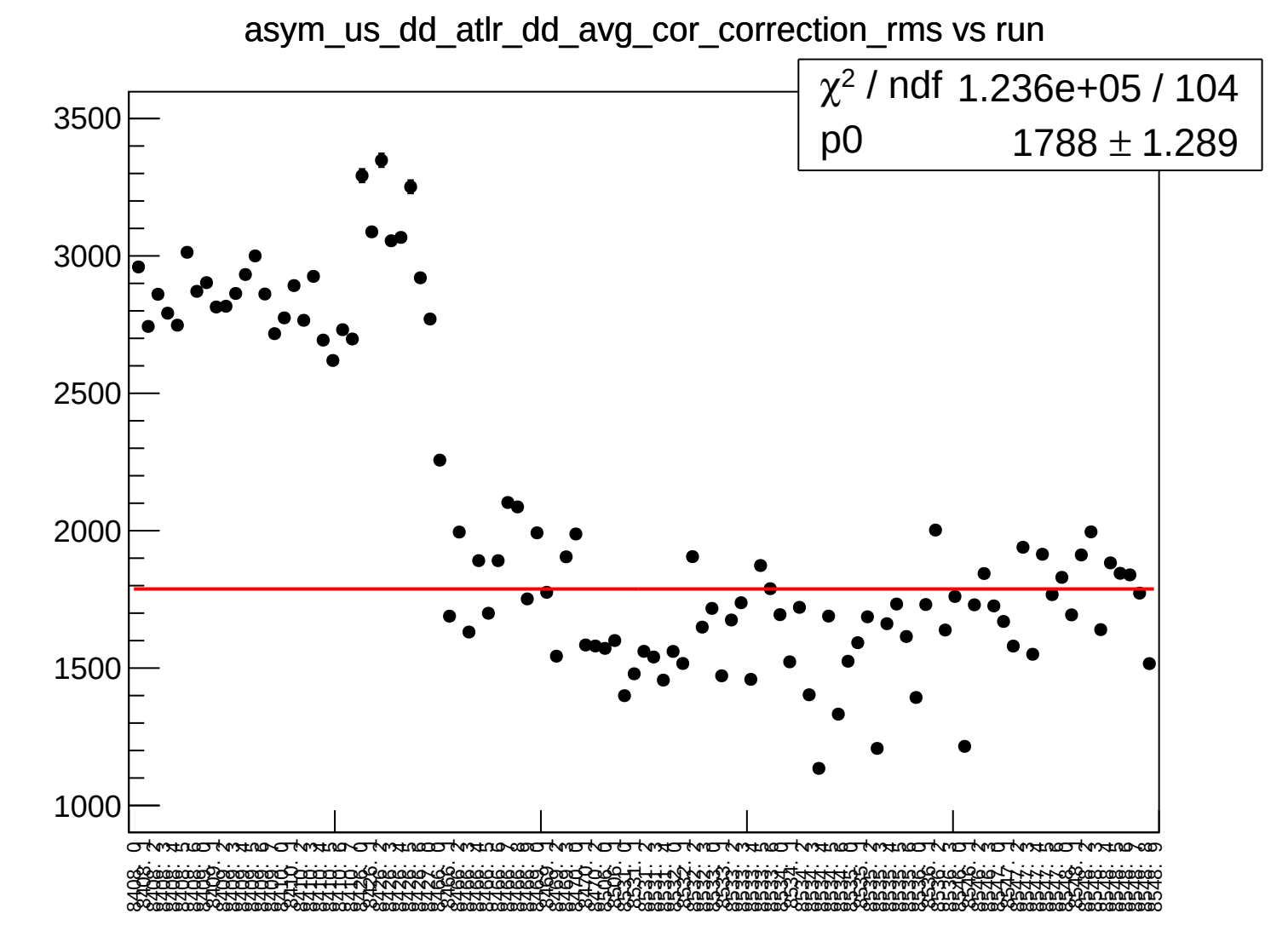

cor_asym_us_dd_atlr_dd_avg_mean vs run
×10^3
χ^2 / ndf 73.42 / 104
p0 254 ± 3166
400
200
0
−200
−400
−600
−800
pull
Entries 105
Mean 57
Std Dev 28.92
1
0
−1
−2
−3

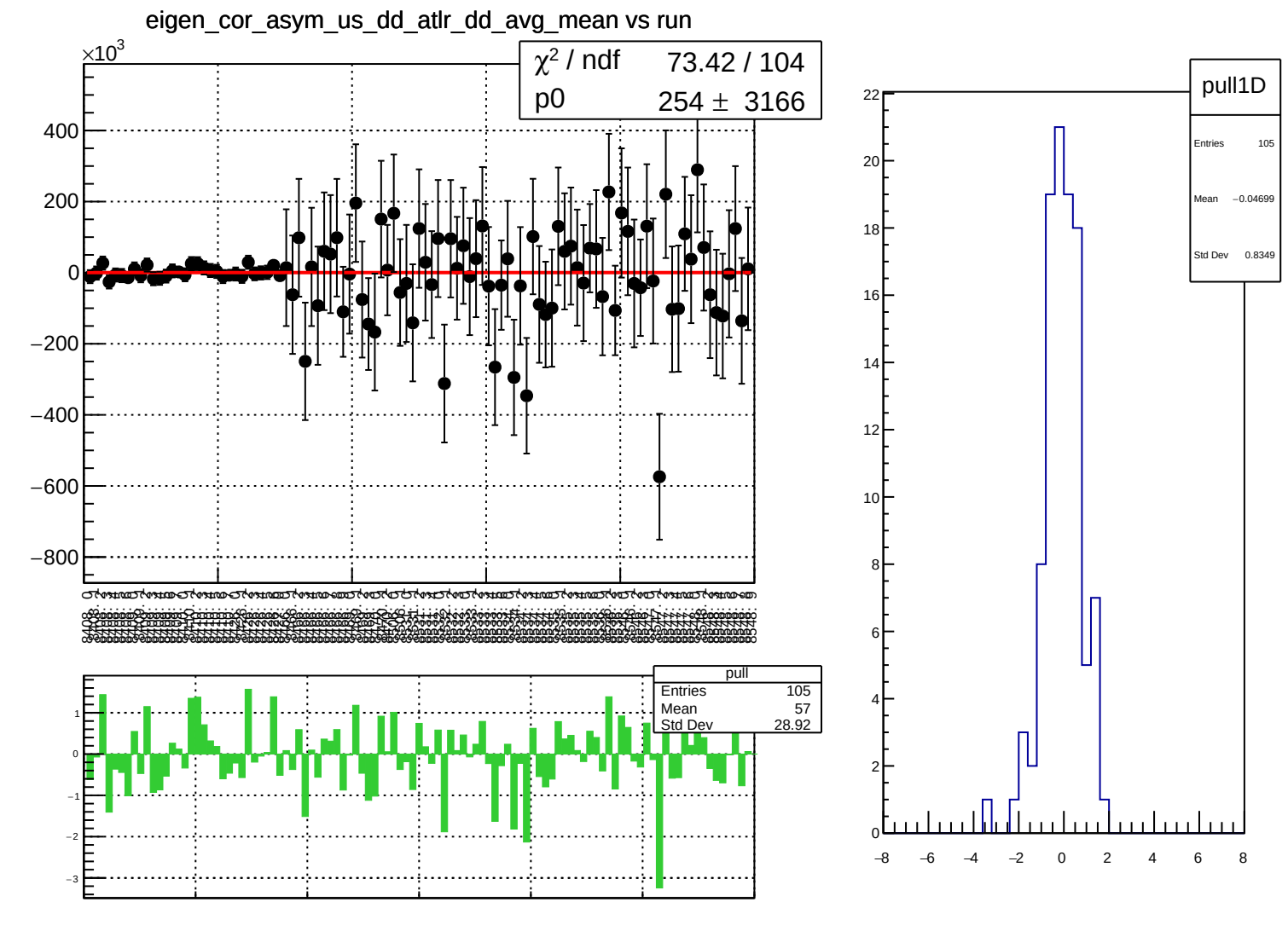

pull1D
Entries 105
Mean −0.04699
Std Dev 0.8349
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

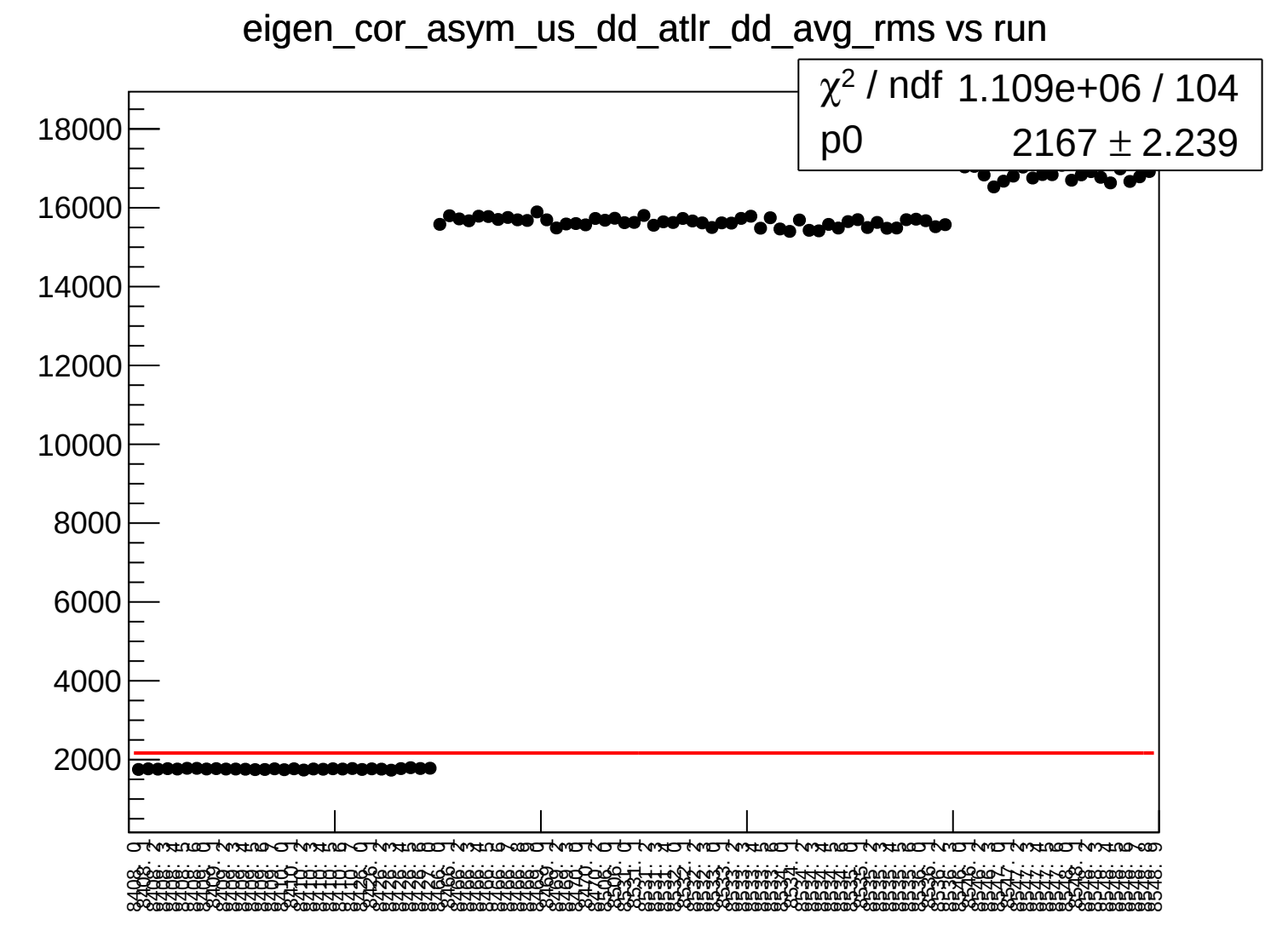

cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 1.109e+06 / 104
p0 2167 ± 2.239
18000
16000
14000
12000
10000
8000
6000
4000
2000

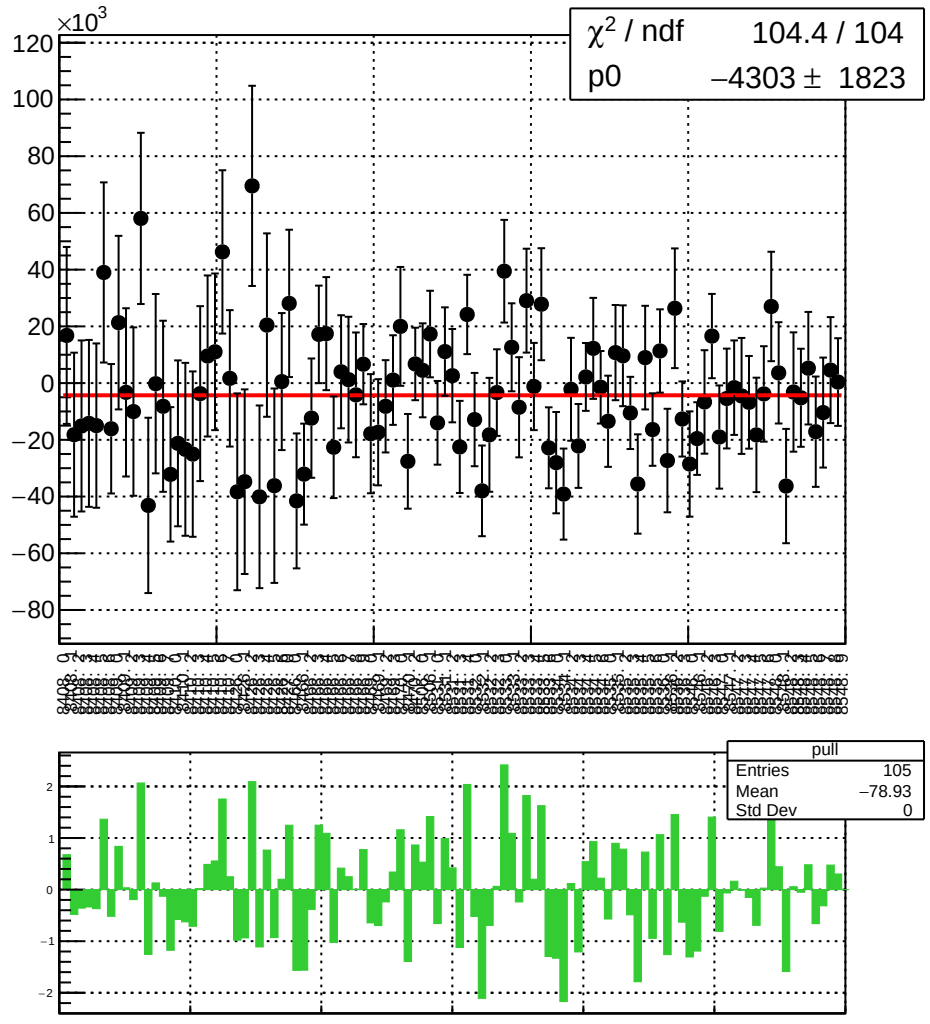

asym_us_dd_atlr_dd_avg_cor_correction_mean vs run
×10^3
χ^2 / ndf 104.4 / 104
p0 −4303 ± 1823
pull
Entries 105
Mean −78.93
Std Dev 0

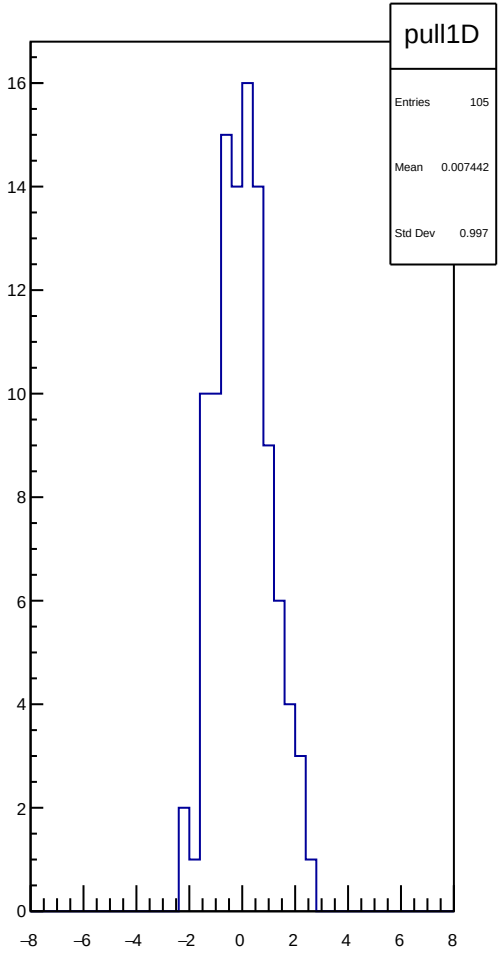

pull1D
Entries 105
Mean 0.007442
Std Dev 0.997

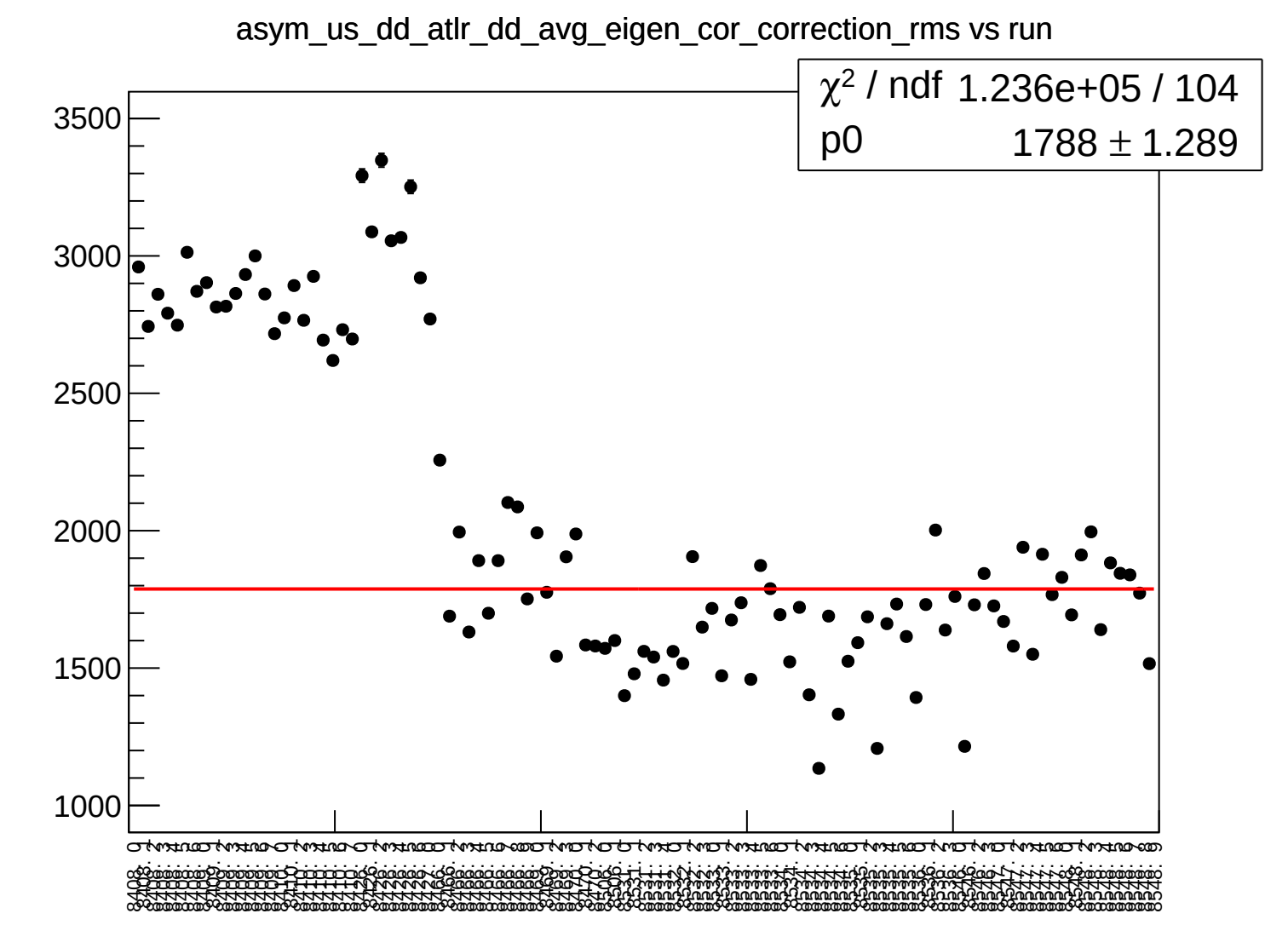

asym_us_dd_atlr_dd_avg_cor_correction_rms vs run
χ² / ndf 1.236e+05 / 104
p0 1788 ± 1.289
3500
3000
2500
2000
1500
1000

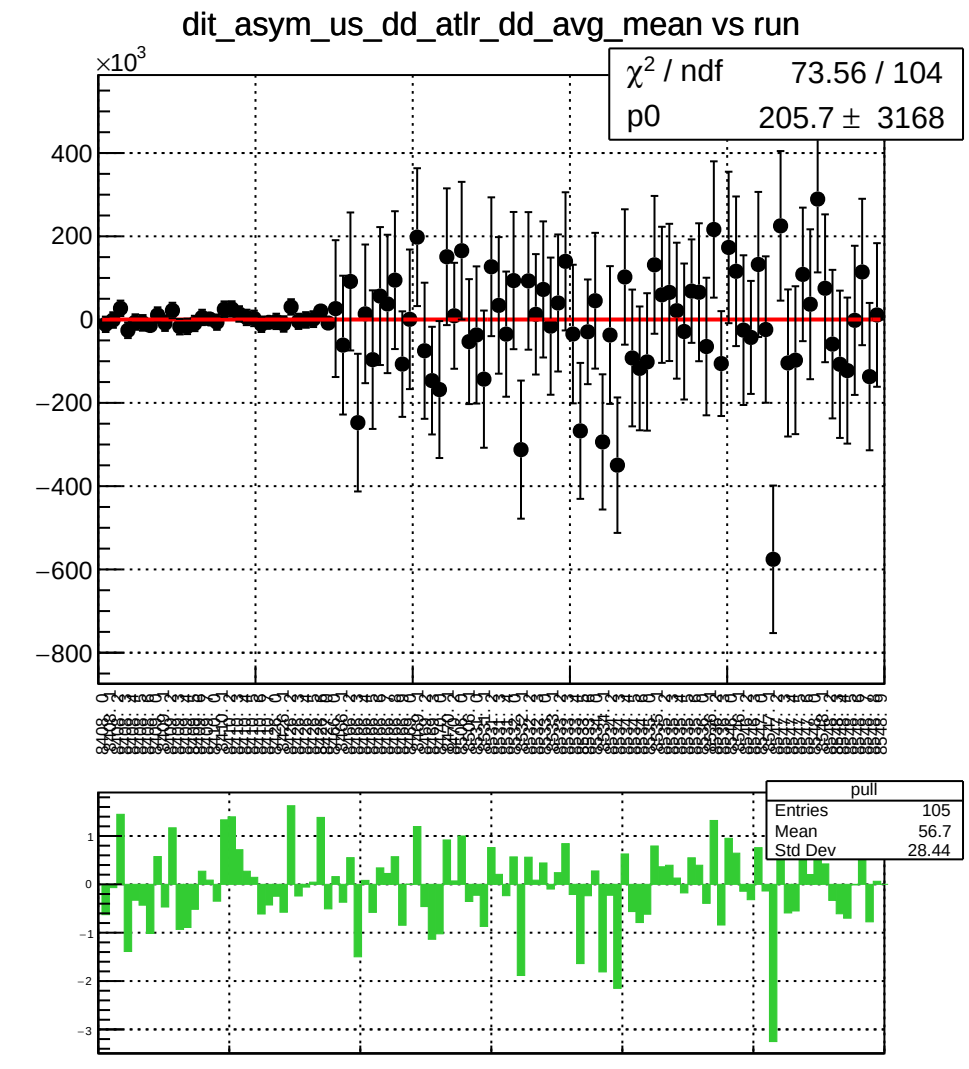

eigen_cor_asym_us_dd_atlr_dd_avg_mean vs run
×10^3
χ^2 / ndf 73.42 / 104
p0 254 ± 3166
400
200
0
−200
−400
−600
−800
pull
Entries 105
Mean 57
Std Dev 28.92
1
0
−1
−2
−3
pull1D
Entries 105
Mean −0.04699
Std Dev 0.8349
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

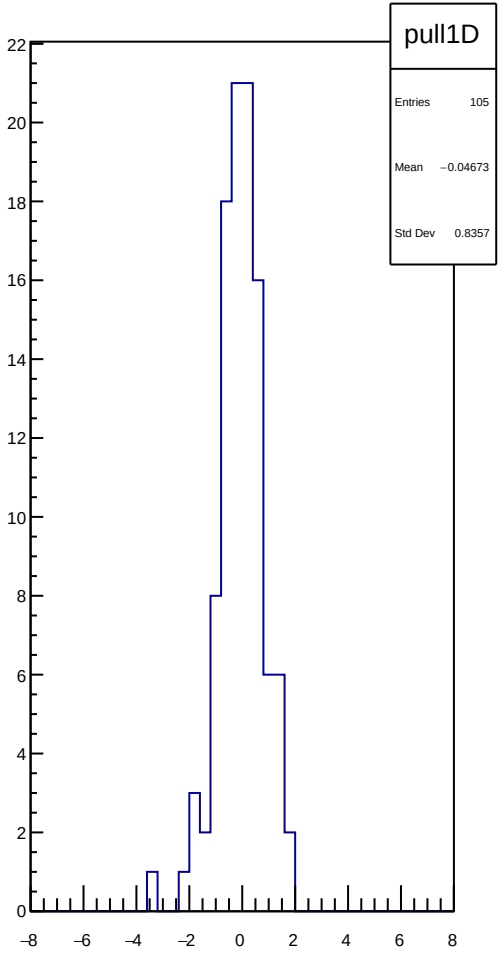

eigen_cor_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 1.109e+06 / 104
p0 2167 ± 2.239
18000
16000
14000
12000
10000
8000
6000
4000
2000

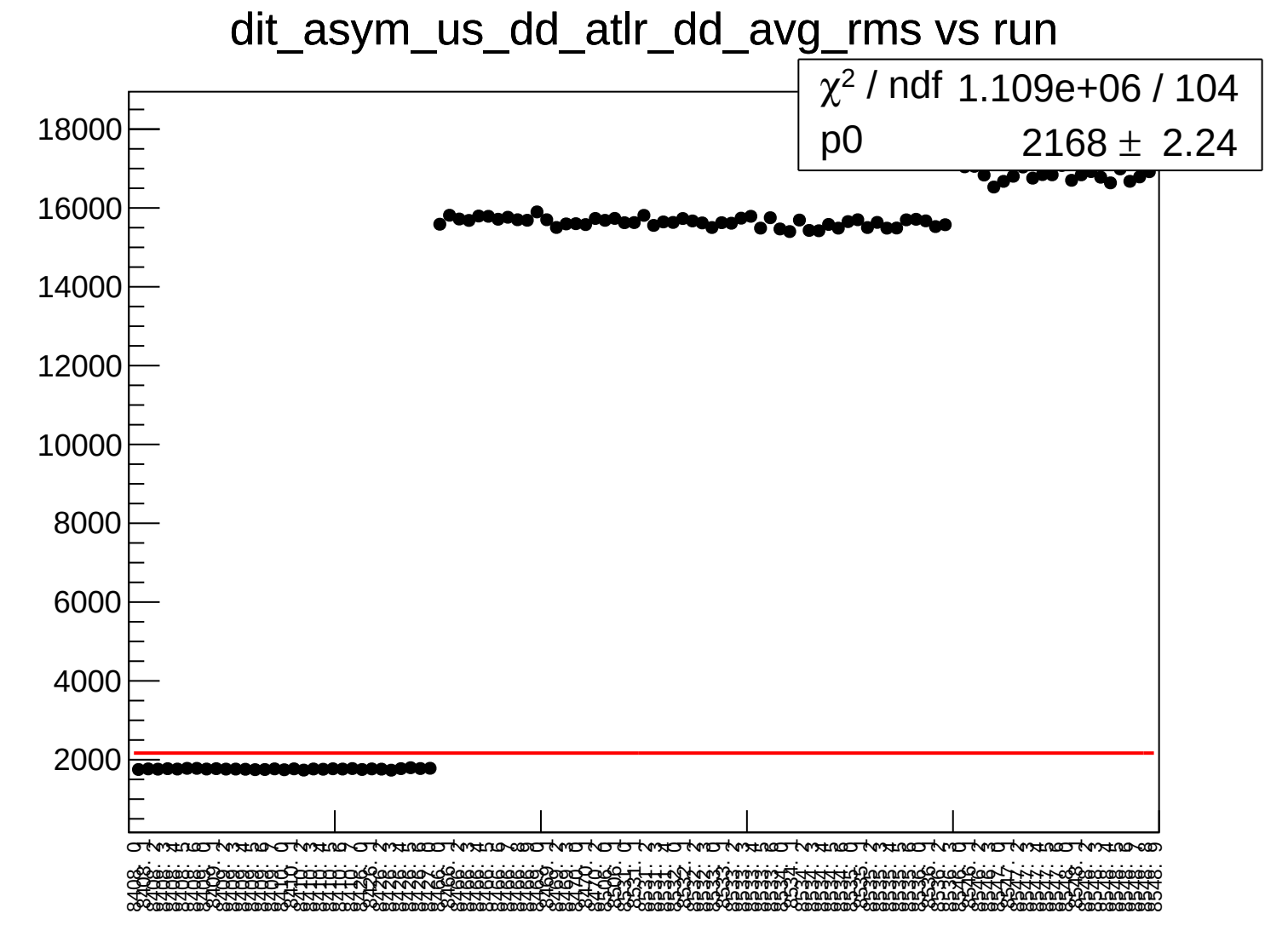

asym_us_dd_atlr_dd_avg_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 104.4 / 104
p0 −4303 ± 1823
pull
Entries 105
Mean −78.93
Std Dev 0

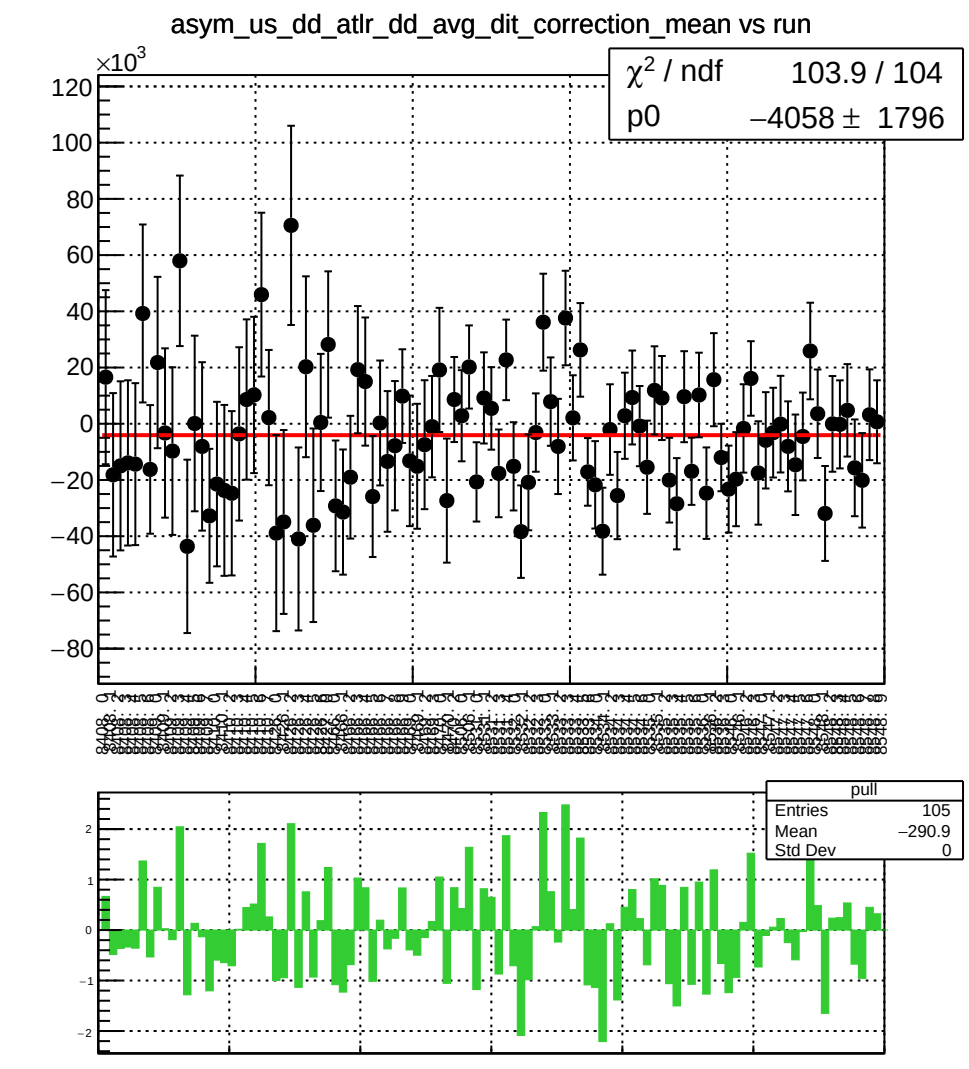

pull1D
Entries 105
Mean 0.007442
Std Dev 0.997

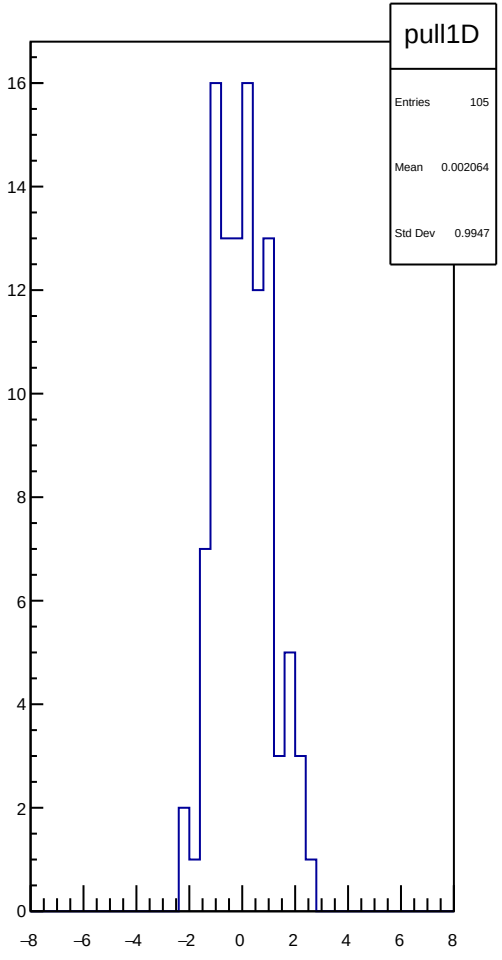

asym_us_dd_atlr_dd_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.236e+05 / 104
p0 1788 ± 1.289
3500
3000
2500
2000
1500
1000

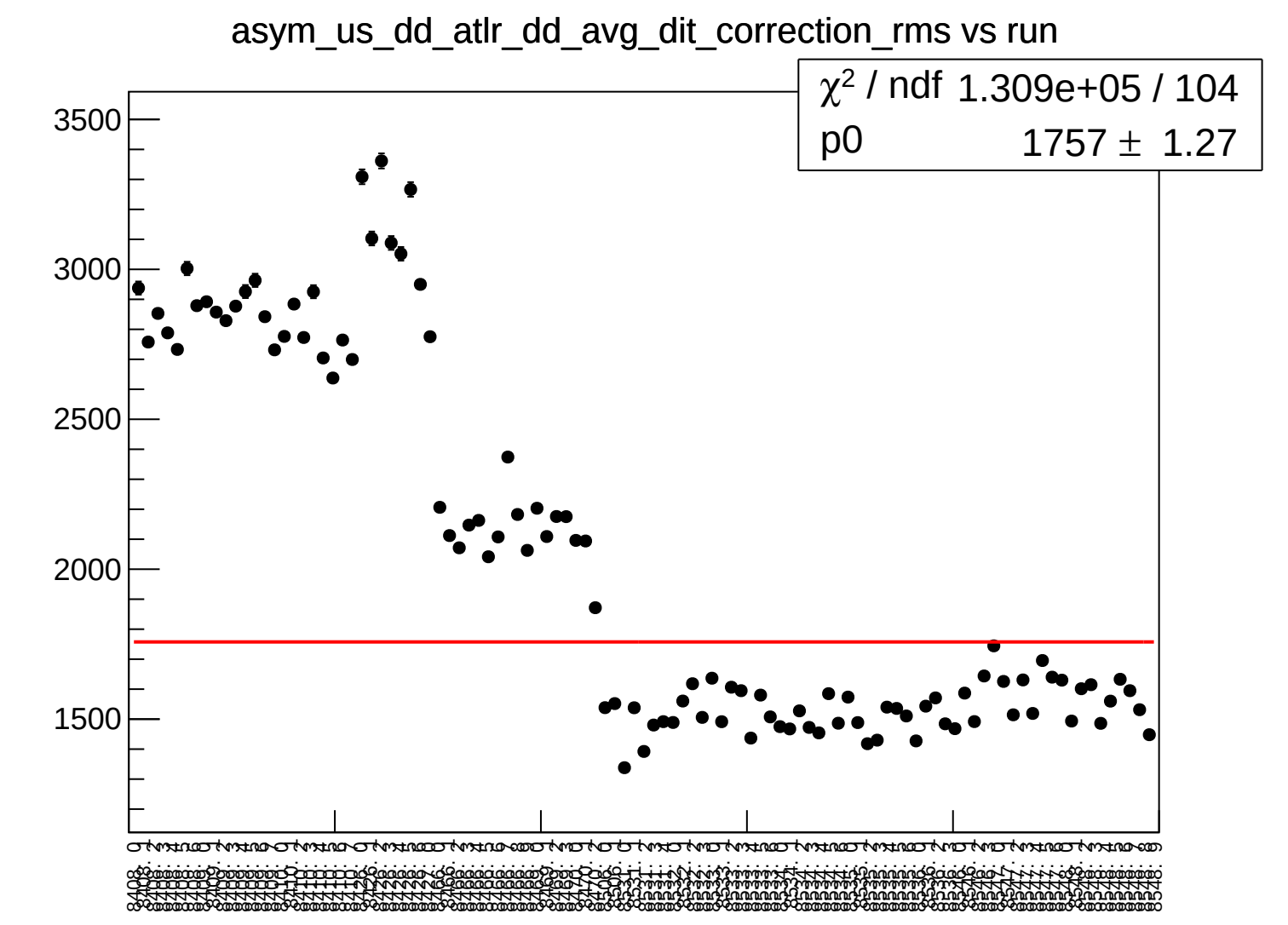

dit_asym_us_dd_atlr_dd_avg_mean vs run
×10^3
χ^2 / ndf 73.56 / 104
p0 205.7 ± 3168
400
200
0
−200
−400
−600
−800
pull
Entries 105
Mean 56.7
Std Dev 28.44
1
0
−1
−2
−3

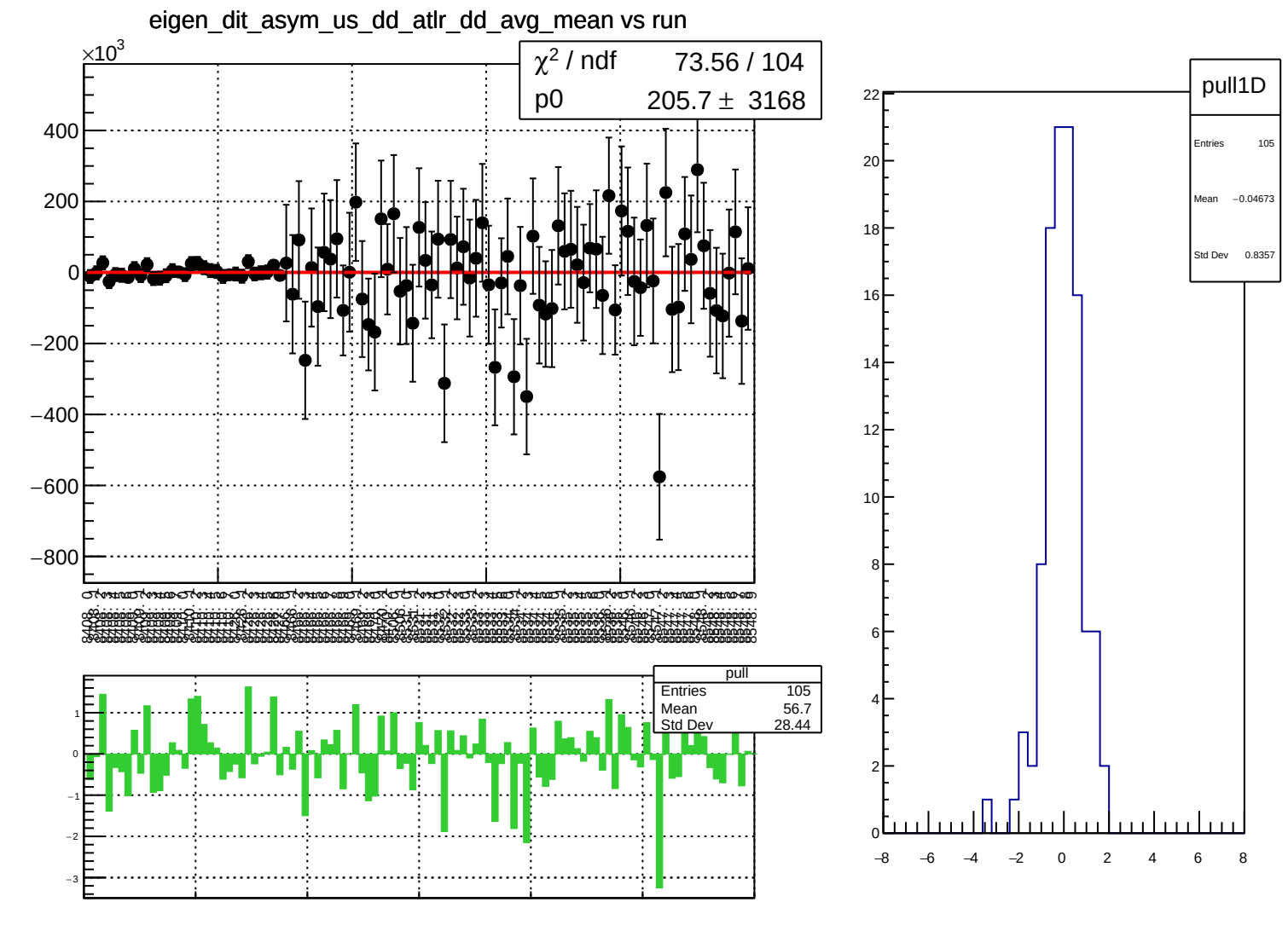

pull1D
Entries 105
Mean −0.04673
Std Dev 0.8357
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

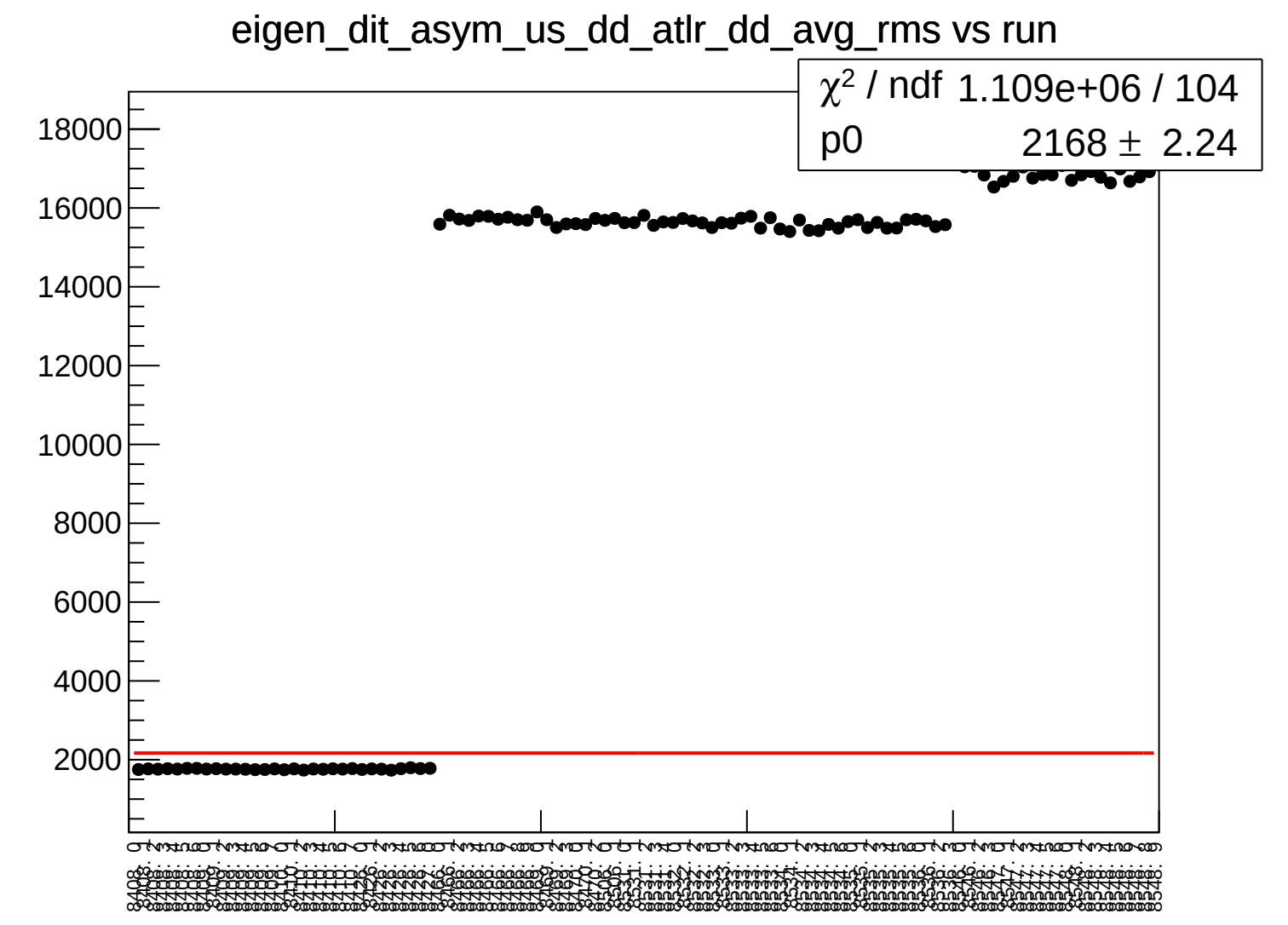

dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 1.109e+06 / 104
p0 2168 ± 2.24
18000
16000
14000
12000
10000
8000
6000
4000
2000

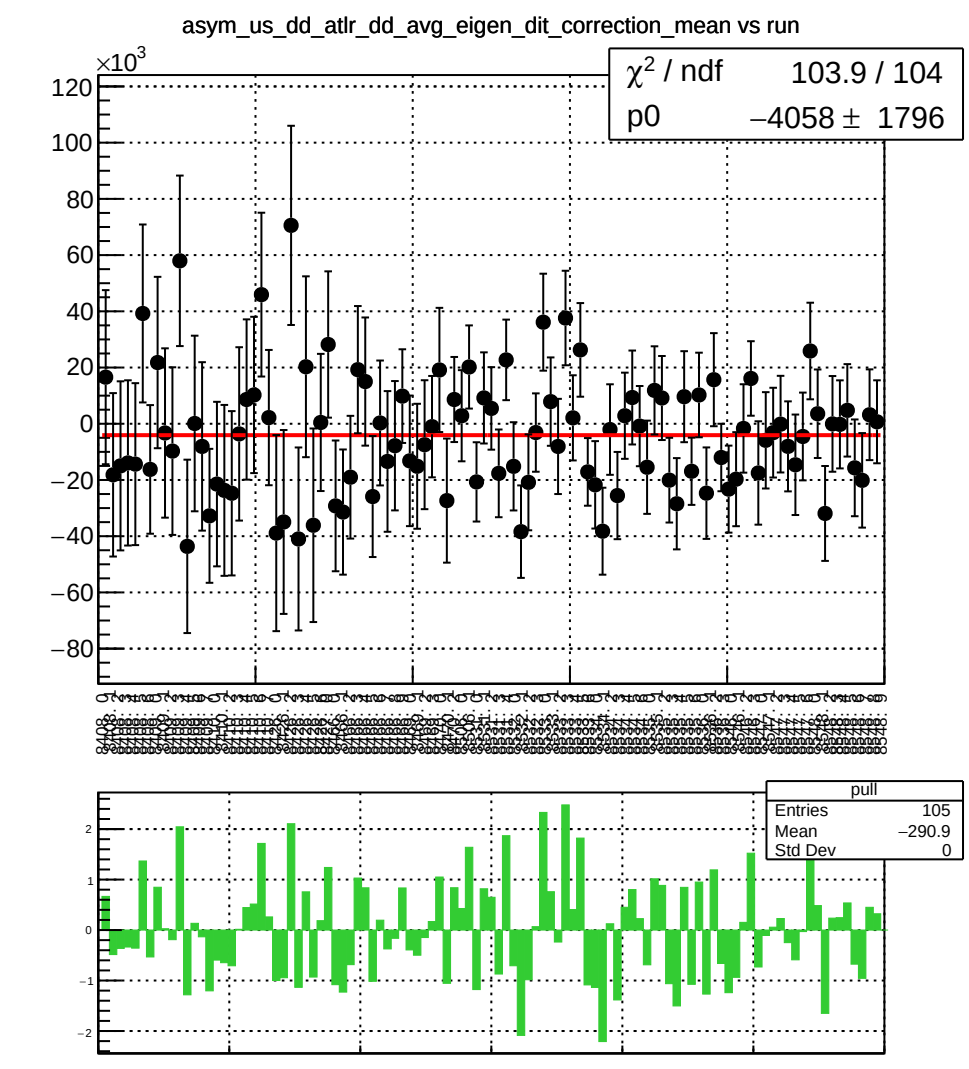

asym_us_dd_atlr_dd_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 103.9 / 104
p0 −4058 ± 1796
pull
Entries 105
Mean −290.9
Std Dev 0

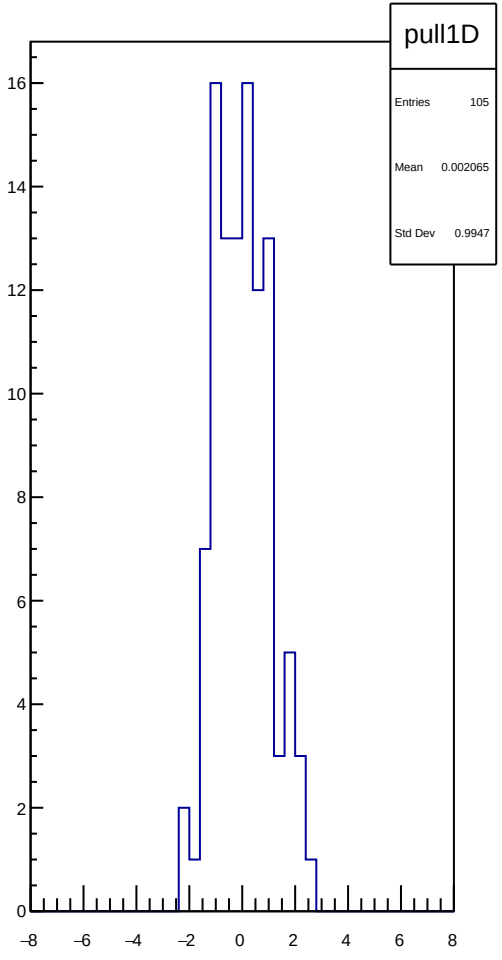

pull1D
Entries 105
Mean 0.002064
Std Dev 0.9947

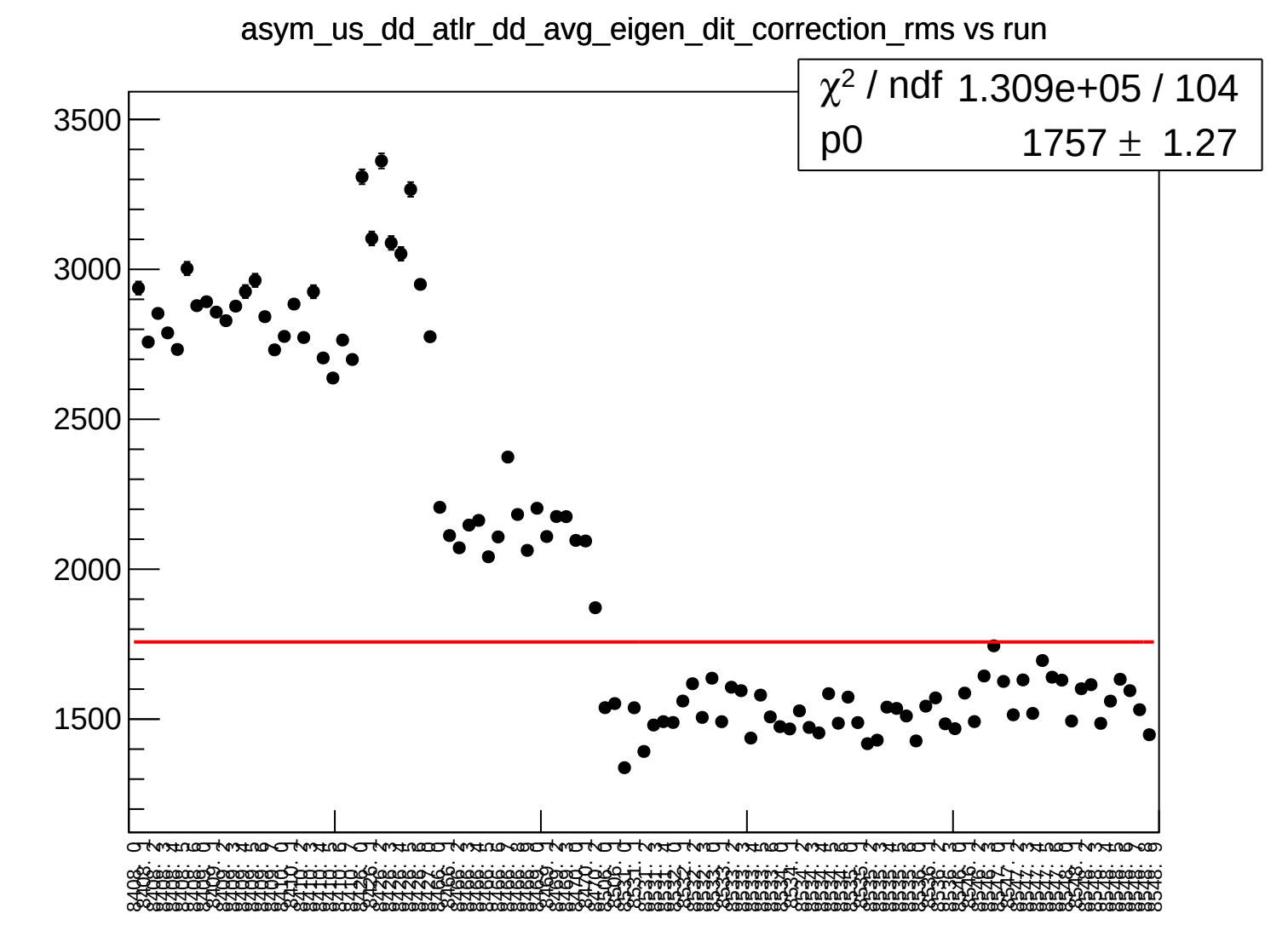

asym_us_dd_atlr_dd_avg_dit_correction_rms vs run
χ² / ndf 1.309e+05 / 104
p0 1757 ± 1.27
3500
3000
2500
2000
1500

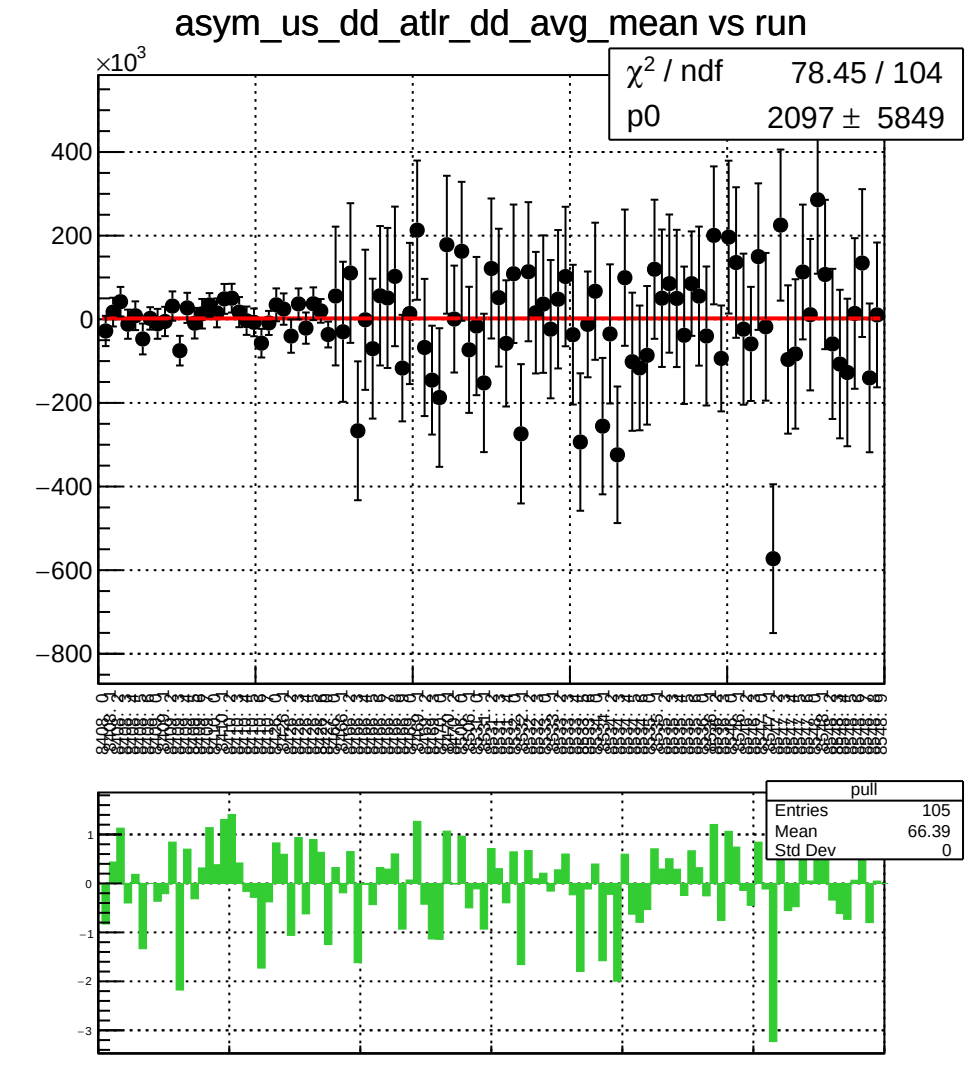

eigen_dit_asym_us_dd_atlr_dd_avg_mean vs run
×10^3
χ^2 / ndf 73.56 / 104
p0 205.7 ± 3168
400
200
0
−200
−400
−600
−800
pull
Entries 105
Mean 56.7
Std Dev 28.44
1
0
−1
−2
−3
pull1D
Entries 105
Mean −0.04673
Std Dev 0.8357
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

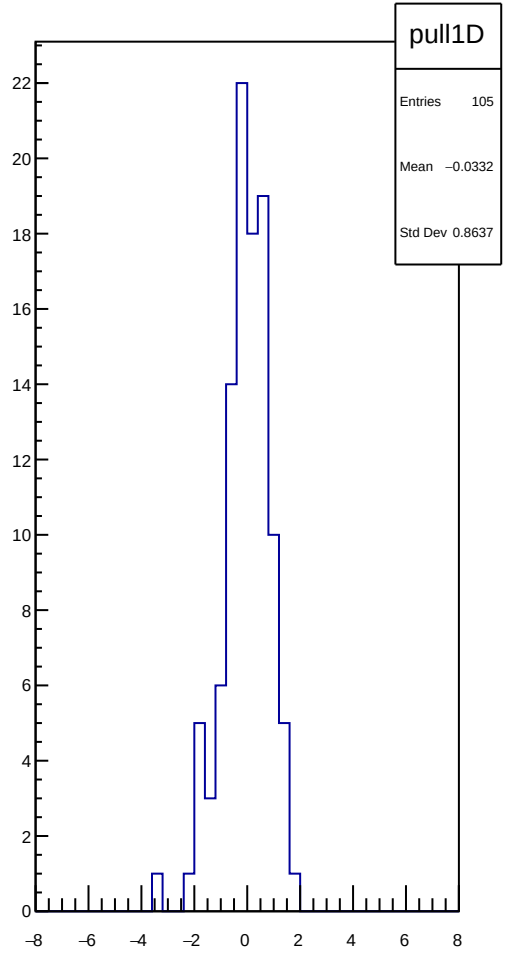

eigen_dit_asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 1.109e+06 / 104
p0 2168 ± 2.24
18000
16000
14000
12000
10000
8000
6000
4000
2000

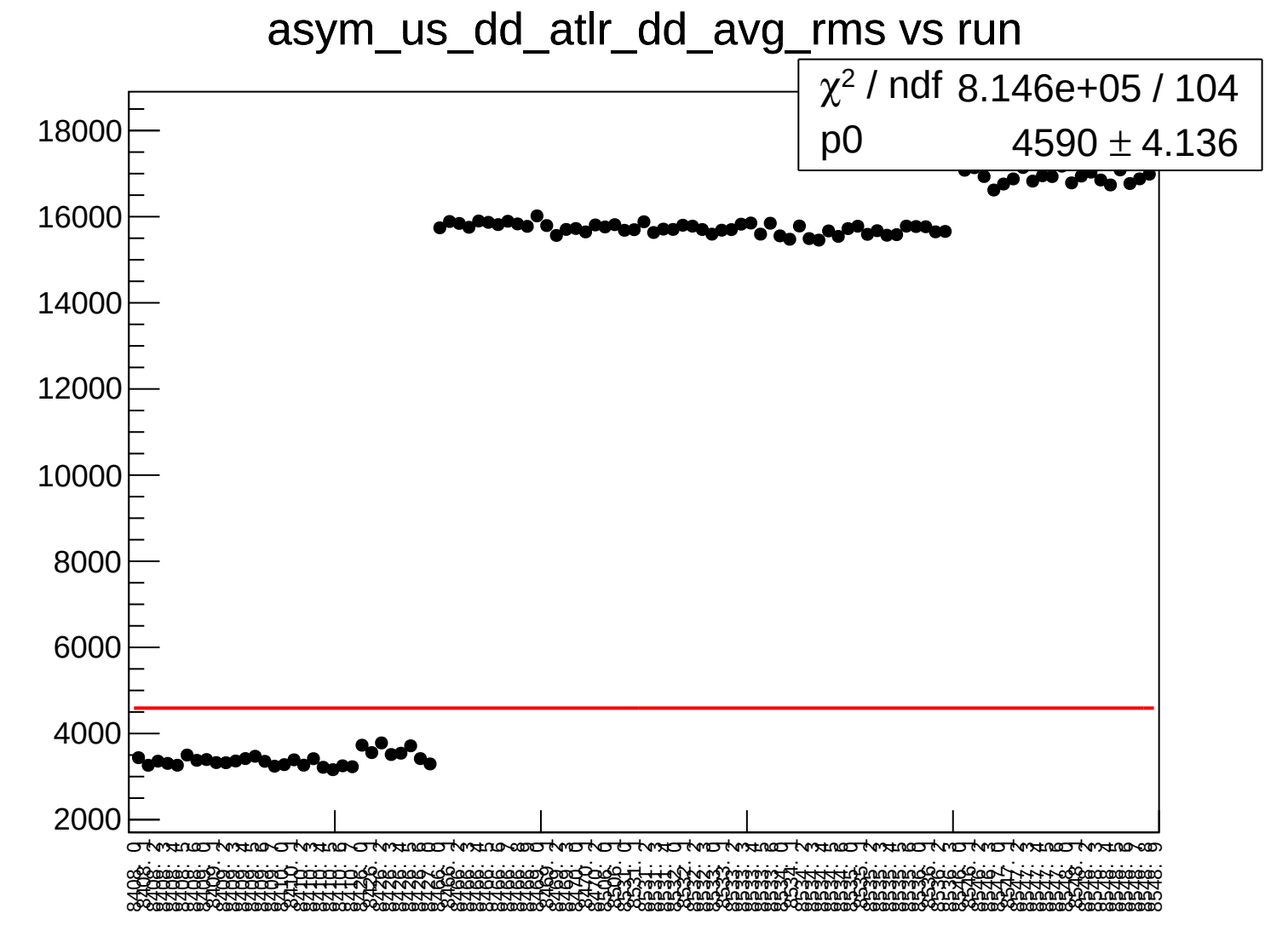

asym_us_dd_atlr_dd_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 103.9 / 104
p0 −4058 ± 1796
pull
Entries 105
Mean −290.9
Std Dev 0

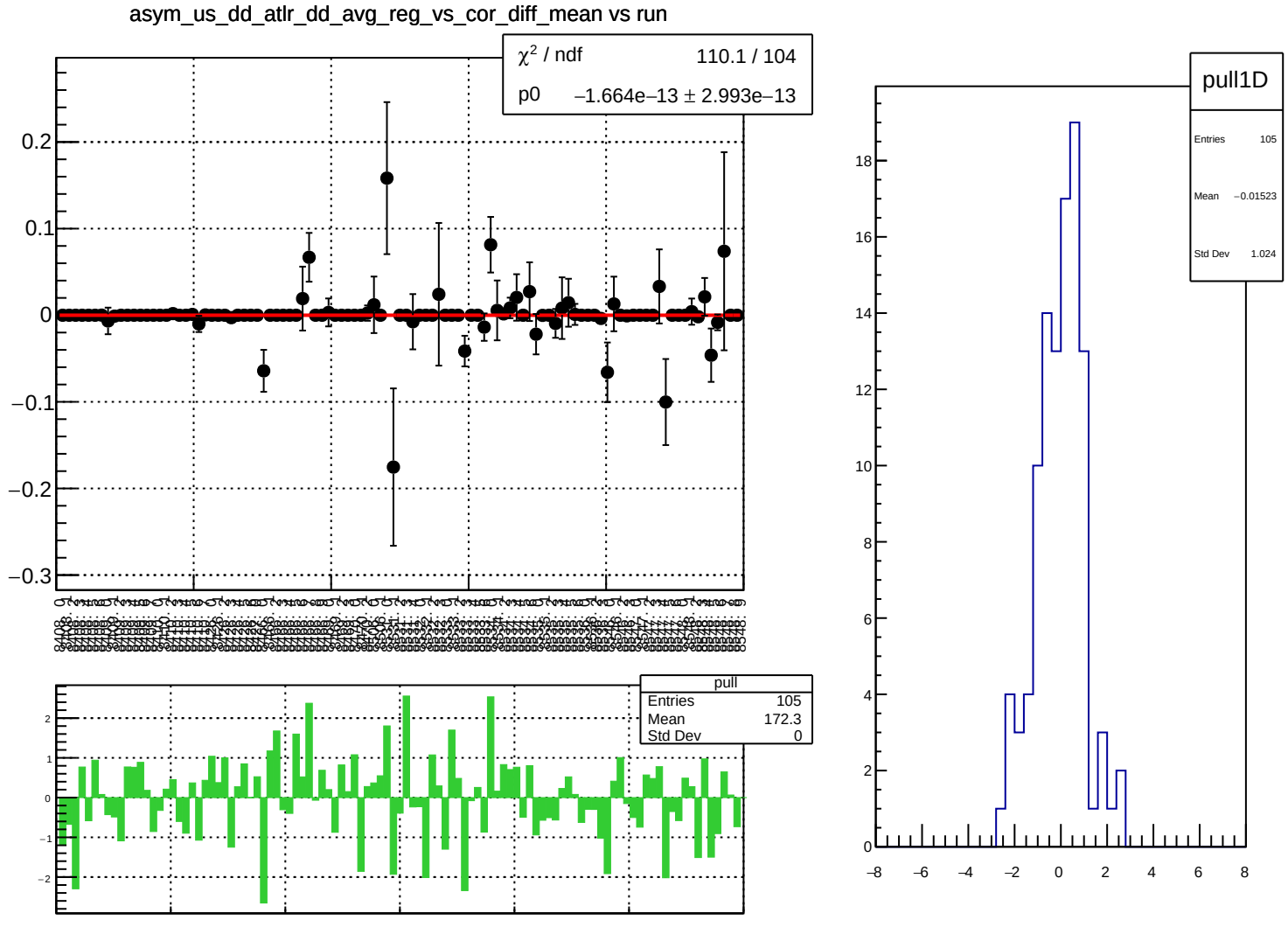

pull1D
Entries 105
Mean 0.002065
Std Dev 0.9947

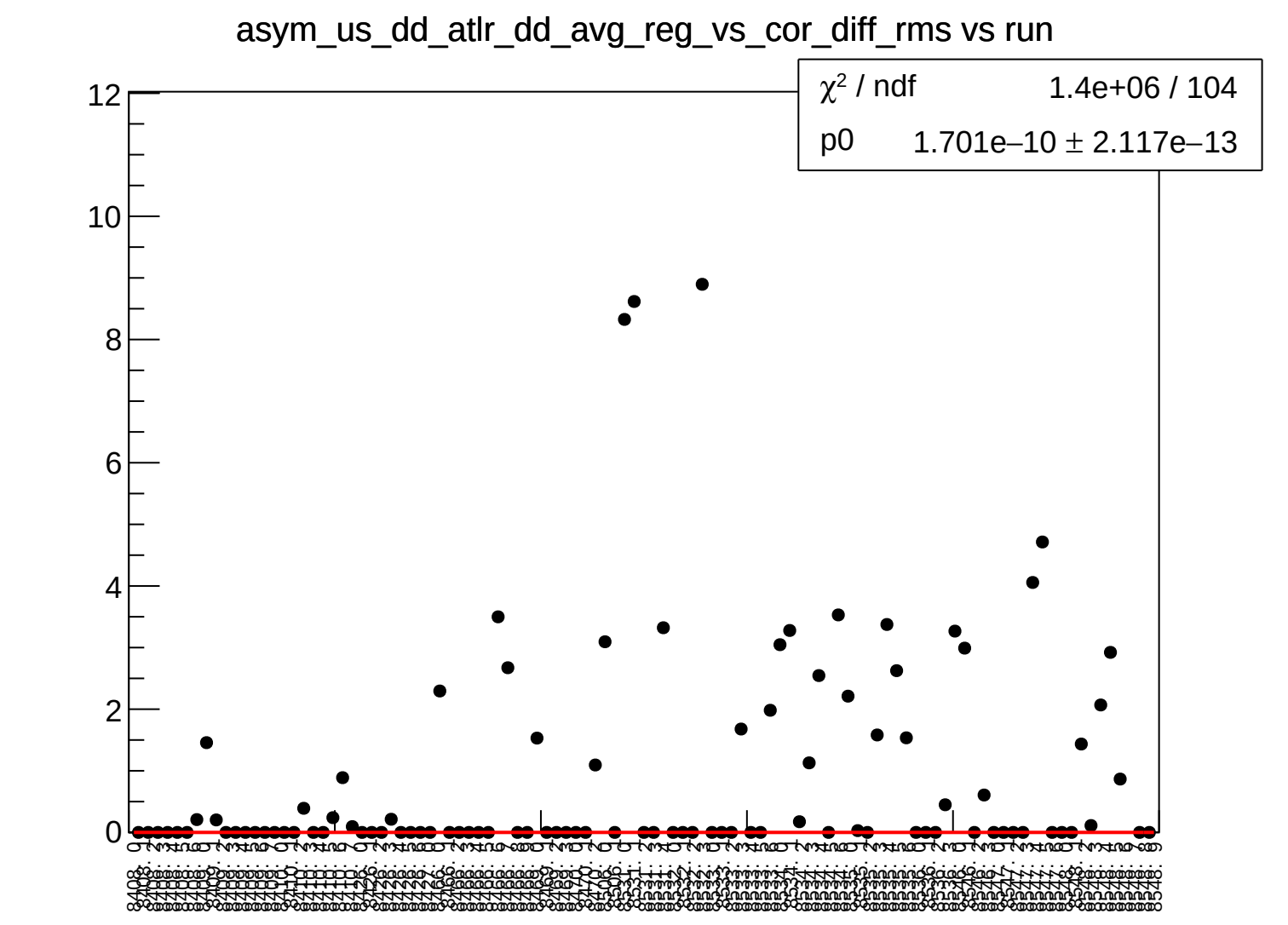

asym_us_dd_atlr_dd_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.309e+05 / 104
p0 1757 ± 1.27
3500
3000
2500
2000
1500

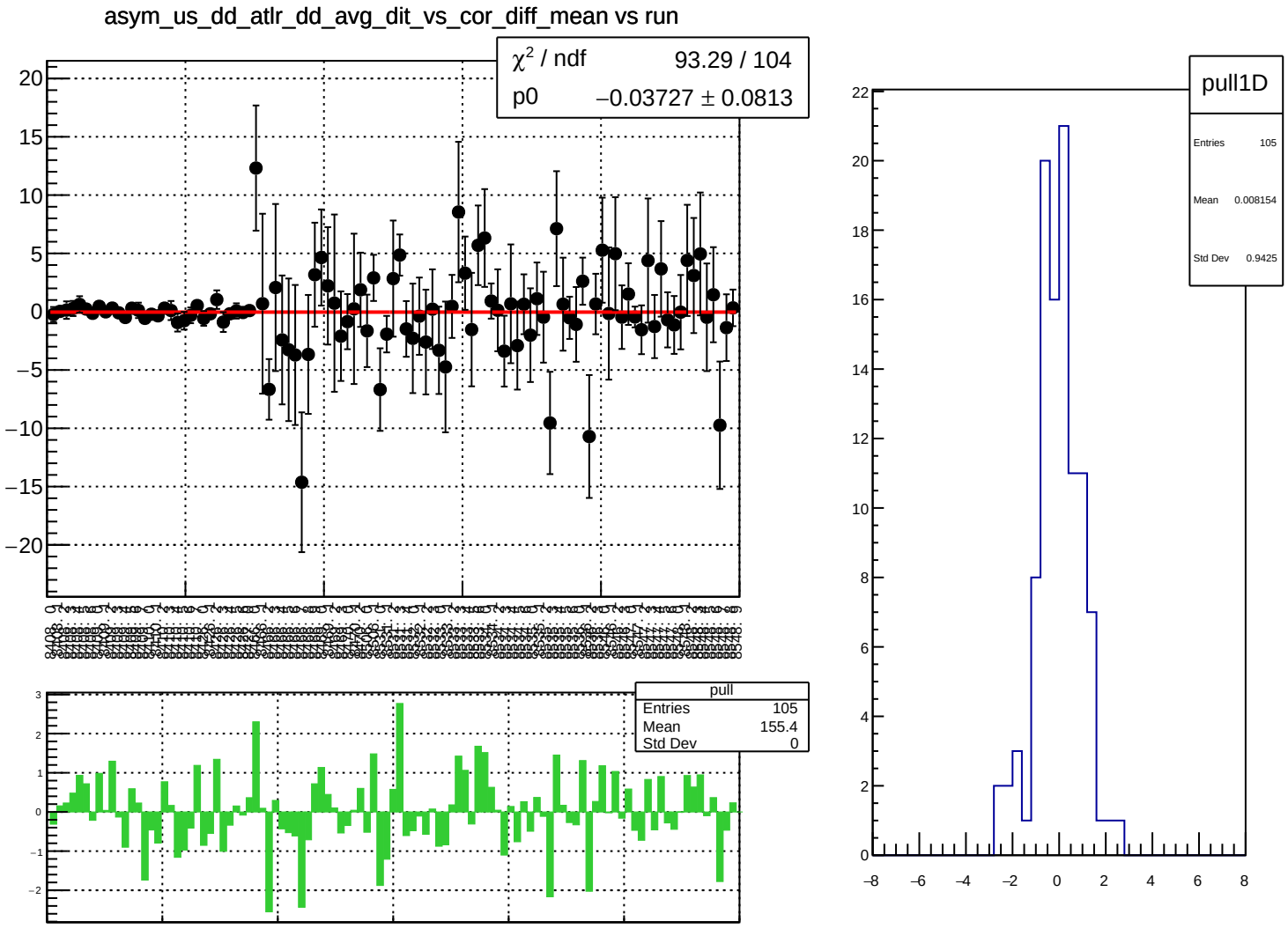

asym_us_dd_atlr_dd_avg_mean vs run
×10^3
χ^2 / ndf 78.45 / 104
p0 2097 ± 5849
400
200
0
−200
−400
−600
−800
pull
Entries 105
Mean 66.39
Std Dev 0
1
0
−1
−2
−3

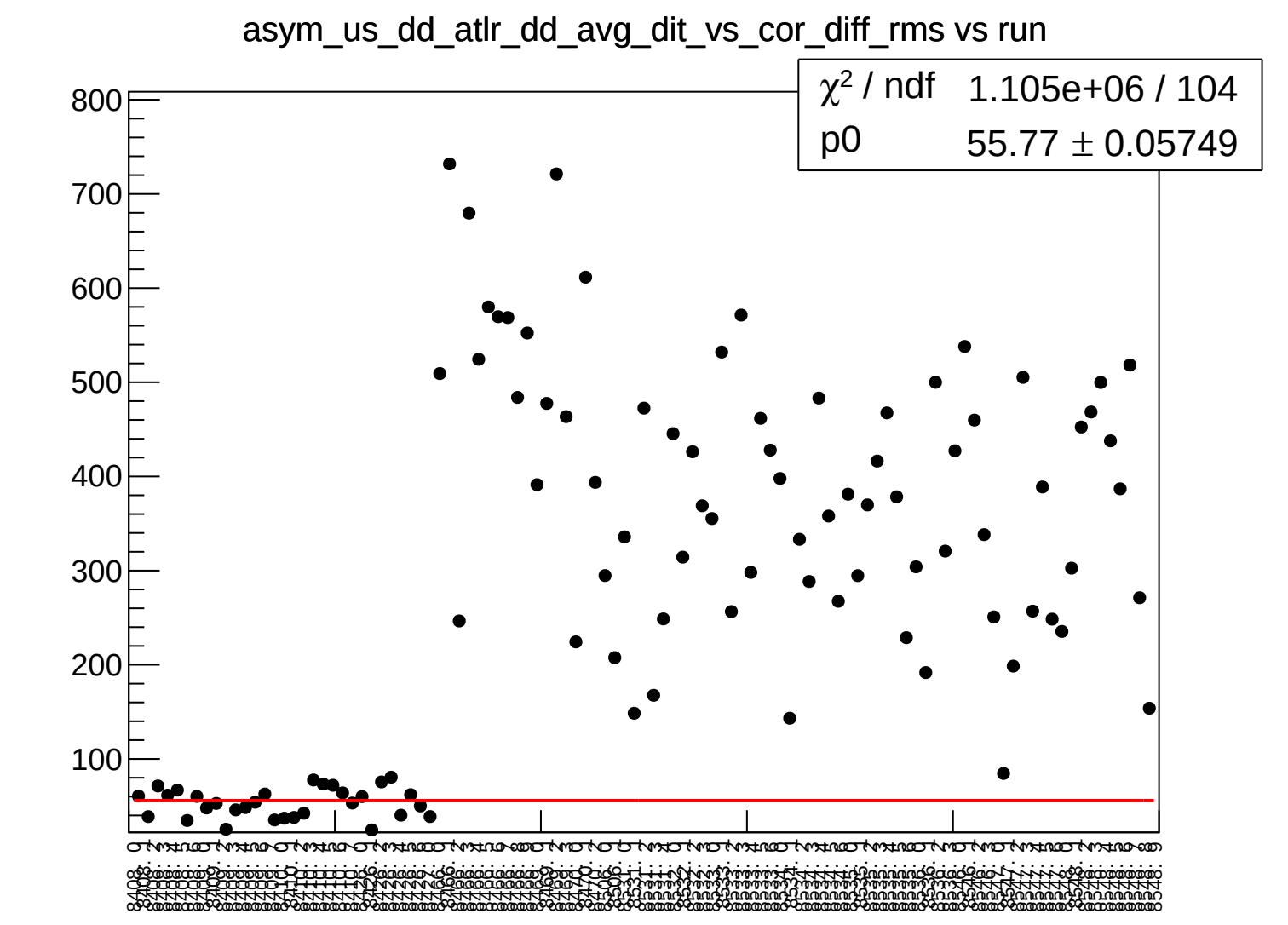

pull1D
Entries 105
Mean −0.0332
Std Dev 0.8637
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

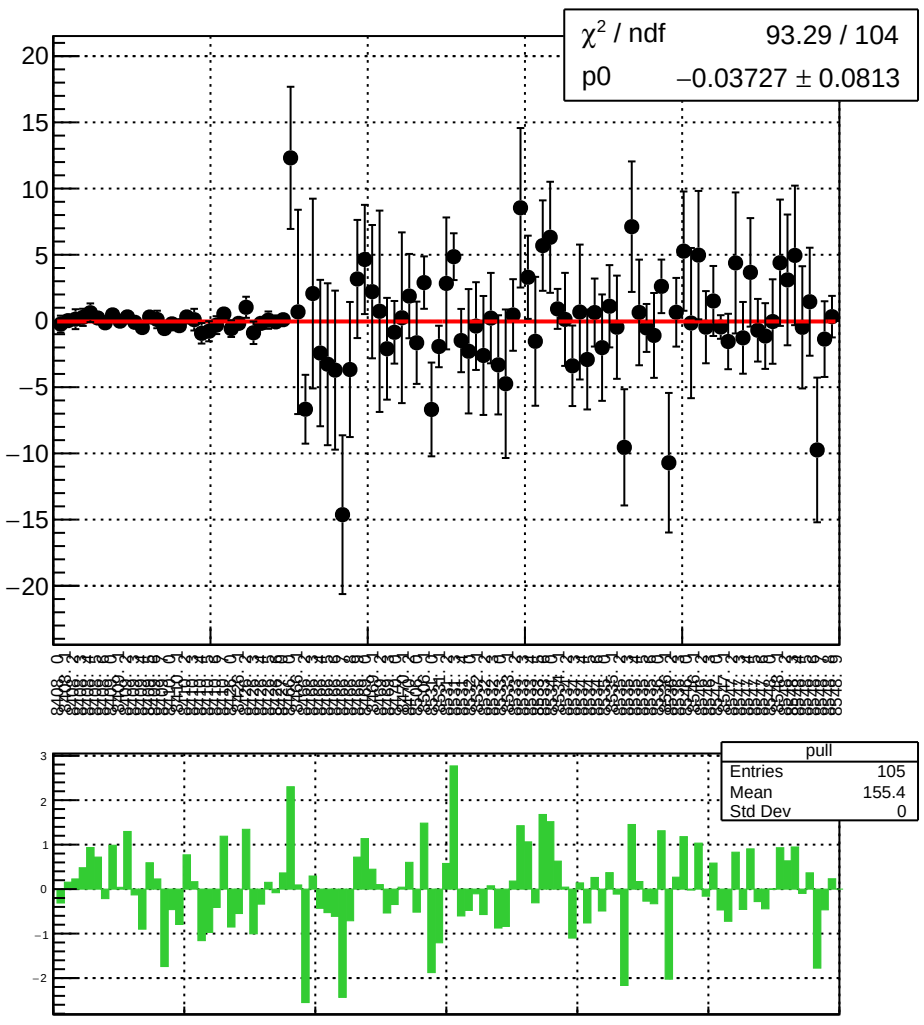

asym_us_dd_atlr_dd_avg_rms vs run
χ² / ndf 8.146e+05 / 104
p0 4590 ± 4.136
18000
16000
14000
12000
10000
8000
6000
4000
2000

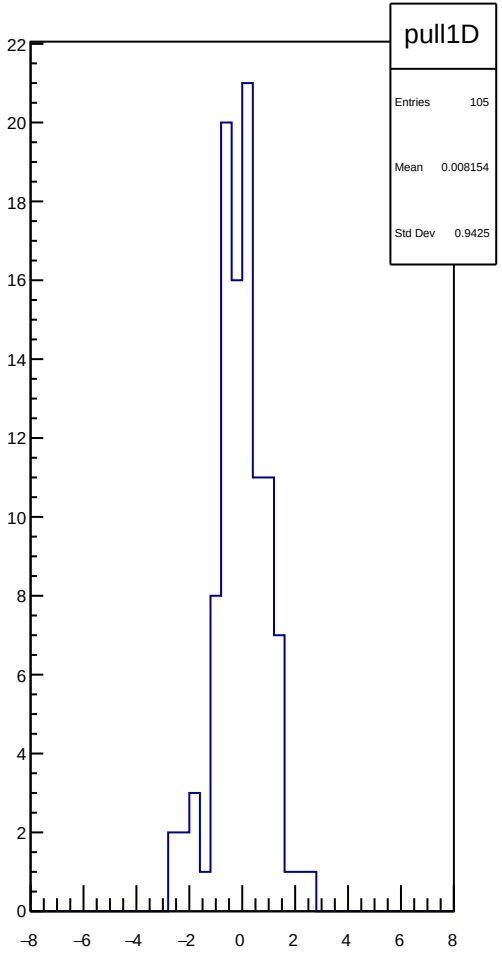

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 110.1 / 104
p0 −1.664e−13 ± 2.993e−13
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 105
Mean 172.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.01523
Std Dev 1.024
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

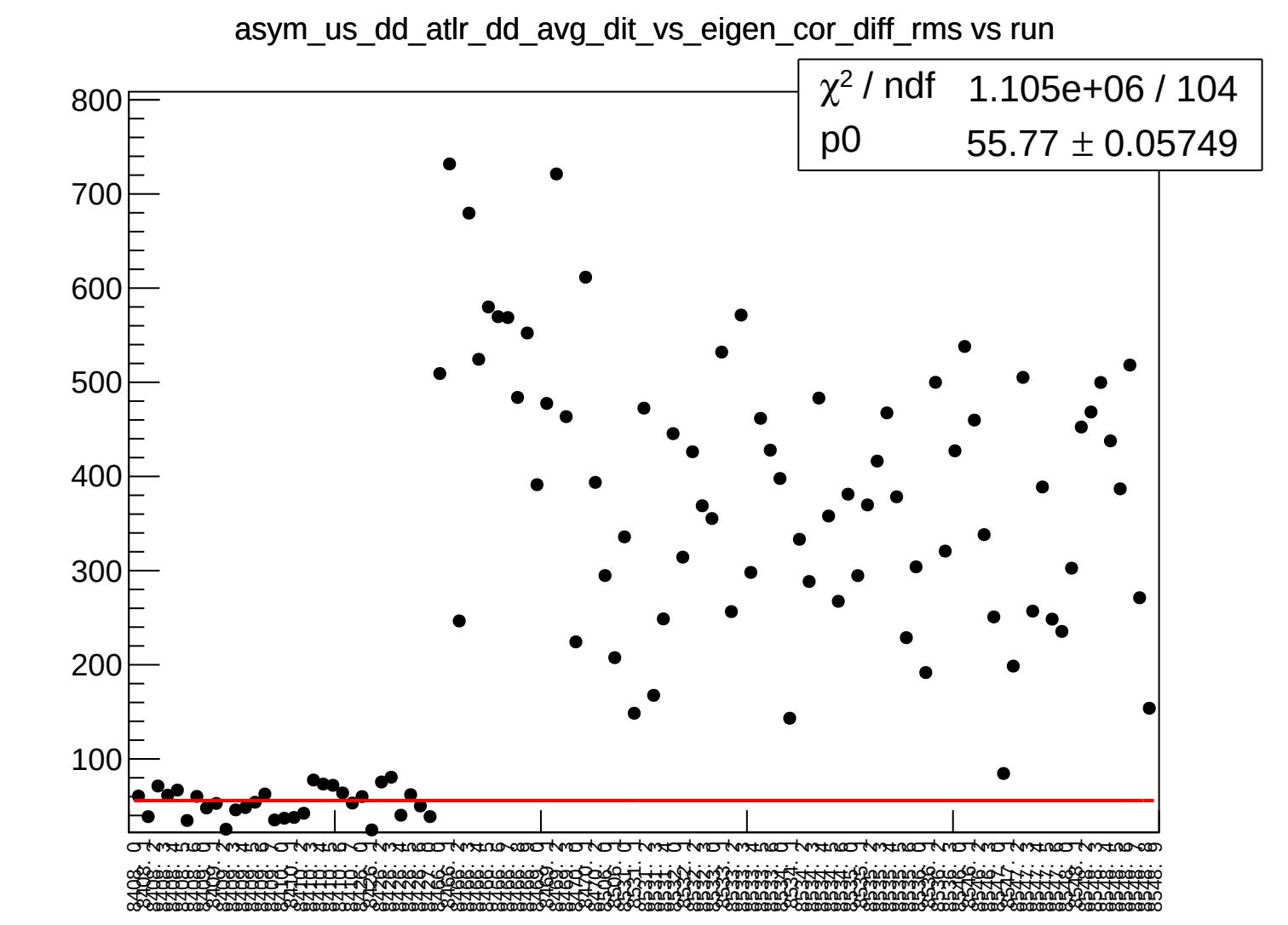

asym_us_dd_atlr_dd_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.4e+06 / 104
p0 1.701e−10 ± 2.117e−13
12
10
8
6
4
2
0

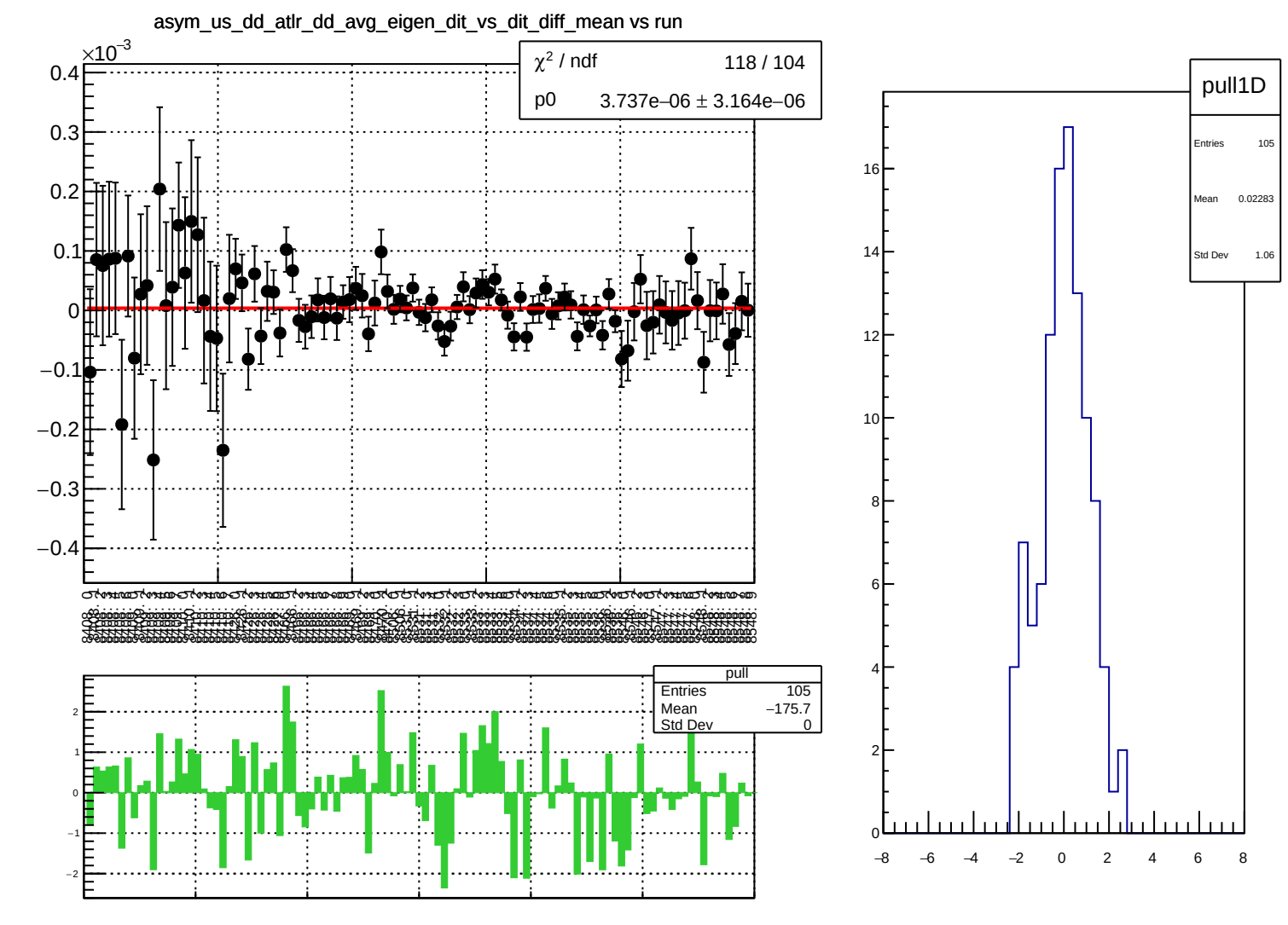

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 93.29 / 104
p0 −0.03727 ± 0.0813
pull
Entries 105
Mean 155.4
Std Dev 0
pull1D
Entries 105
Mean 0.008154
Std Dev 0.9425

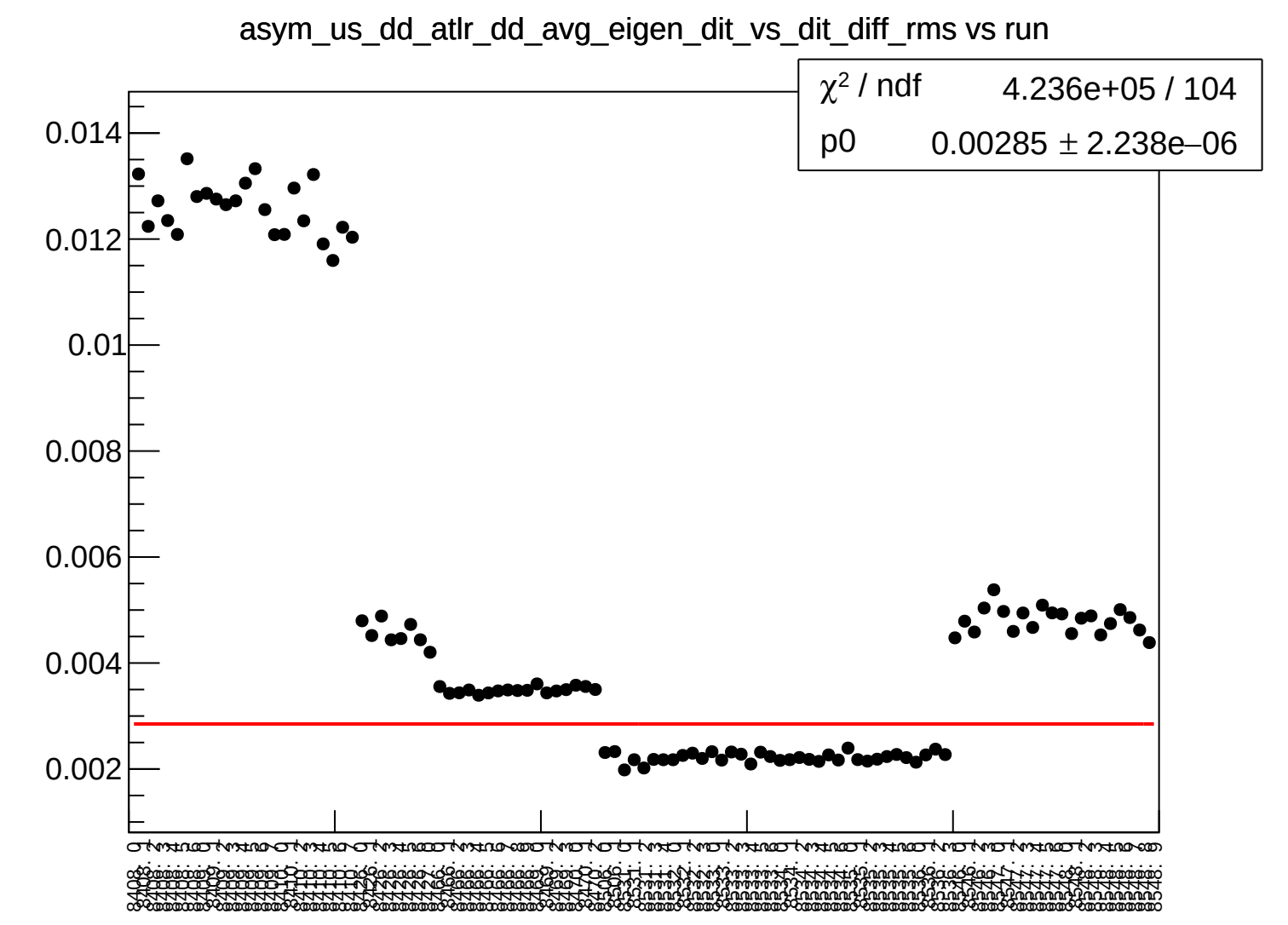

asym_us_dd_atlr_dd_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.105e+06 / 104
p0 55.77 ± 0.05749
800
700
600
500
400
300
200
100

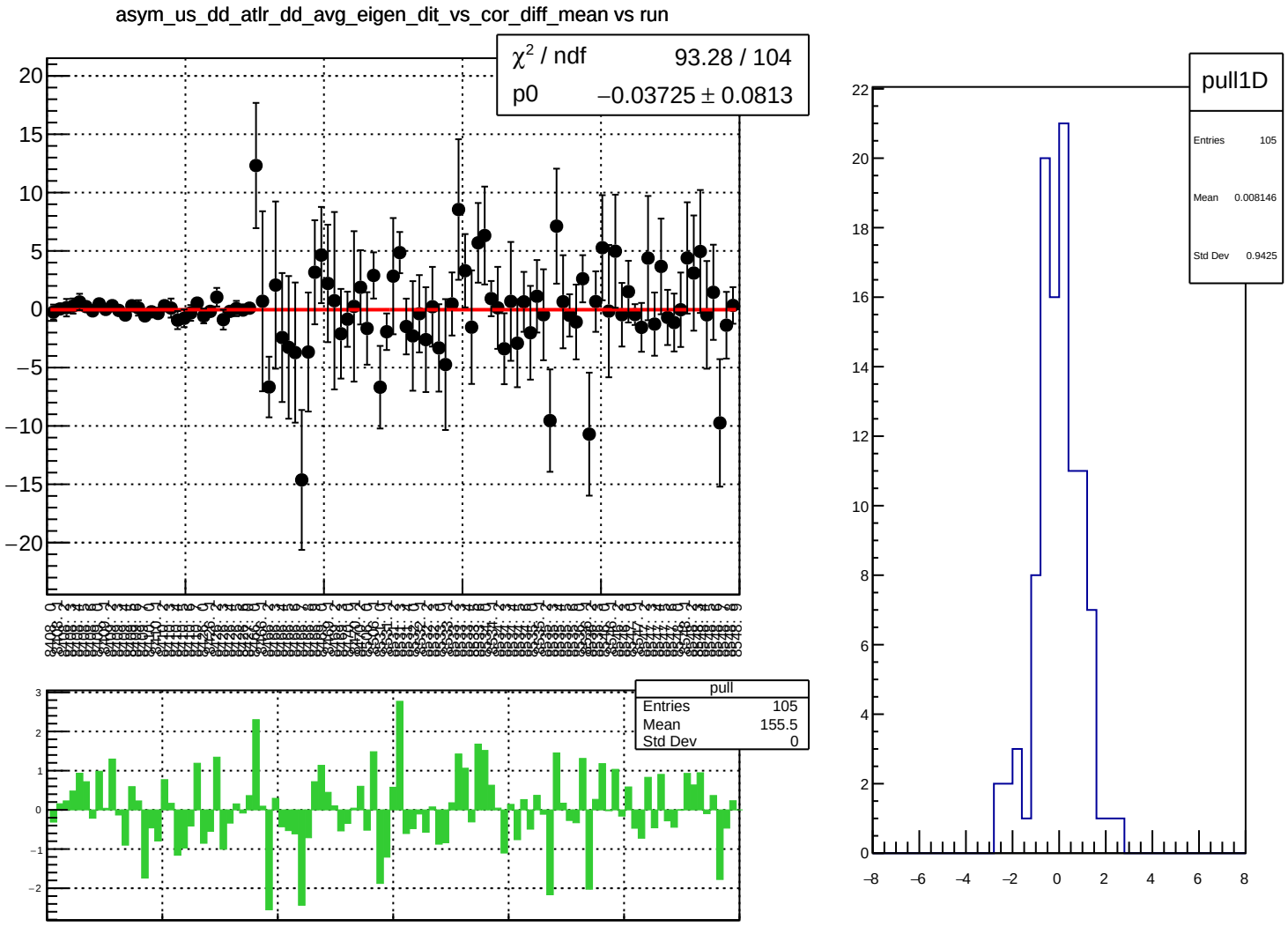

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.29 / 104
p0 −0.03727 ± 0.0813
pull
Entries 105
Mean 155.4
Std Dev 0

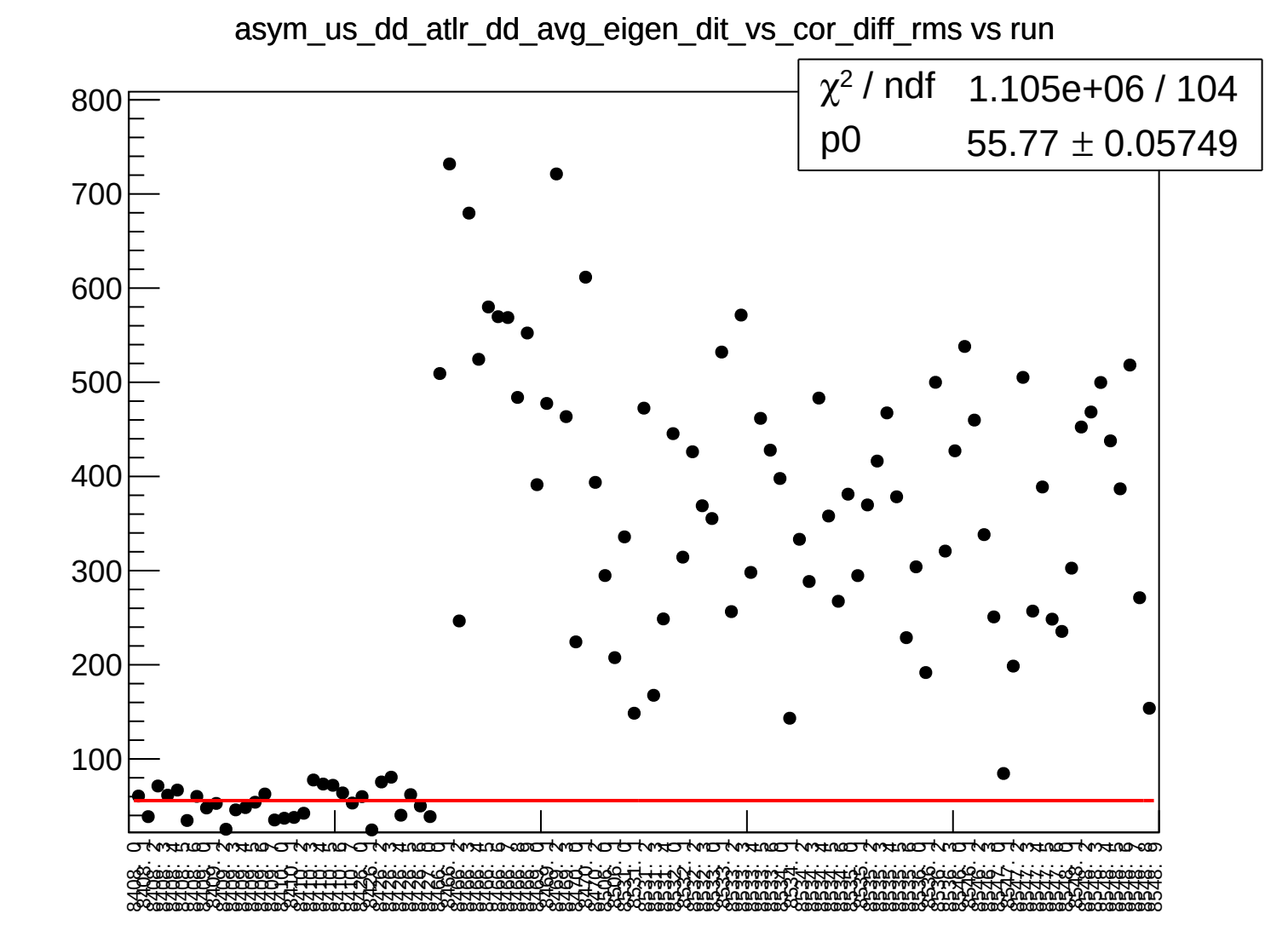

pull1D
Entries 105
Mean 0.008154
Std Dev 0.9425

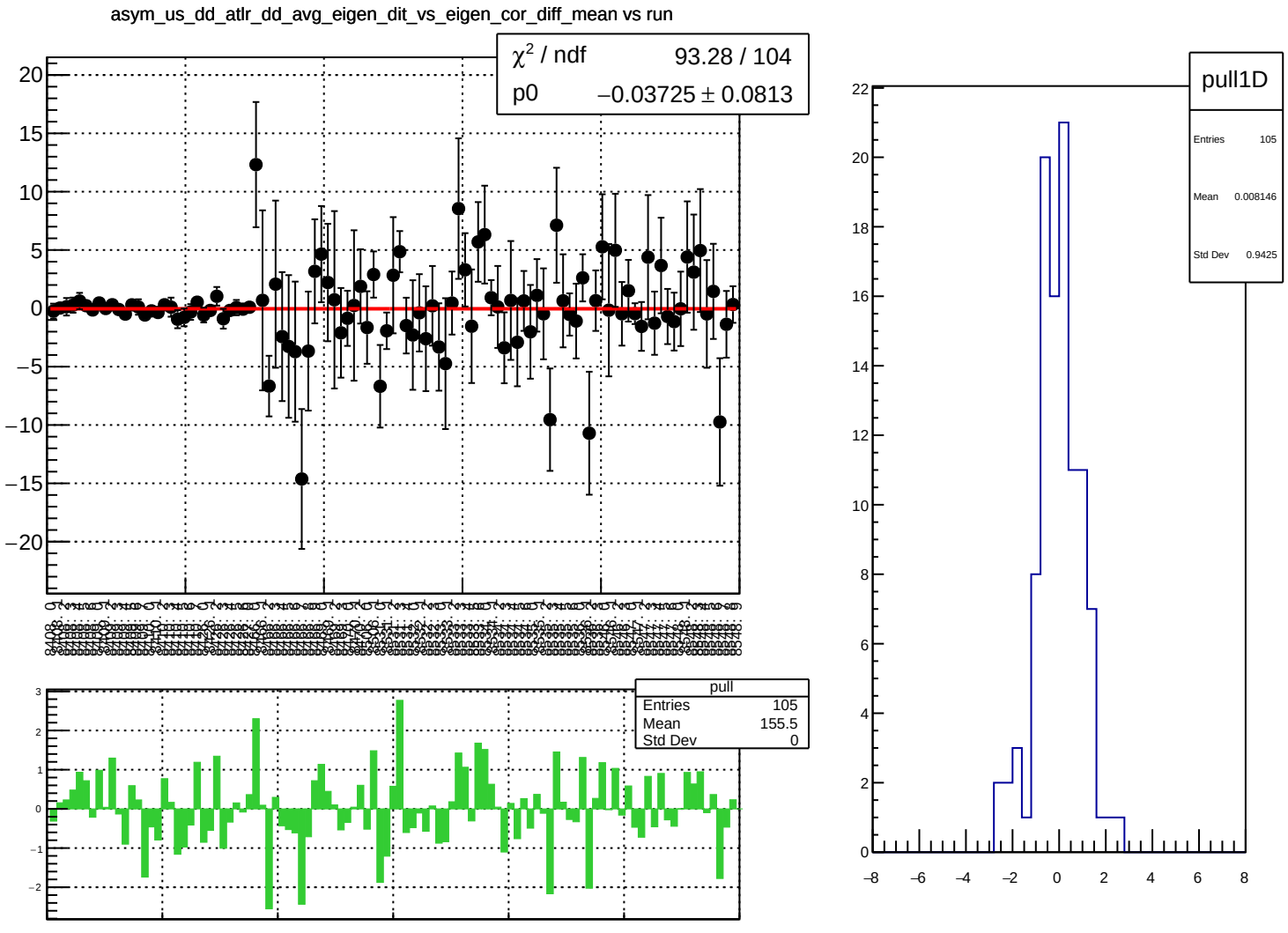

asym_us_dd_atlr_dd_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.105e+06 / 104
p0 55.77 ± 0.05749
800
700
600
500
400
300
200
100

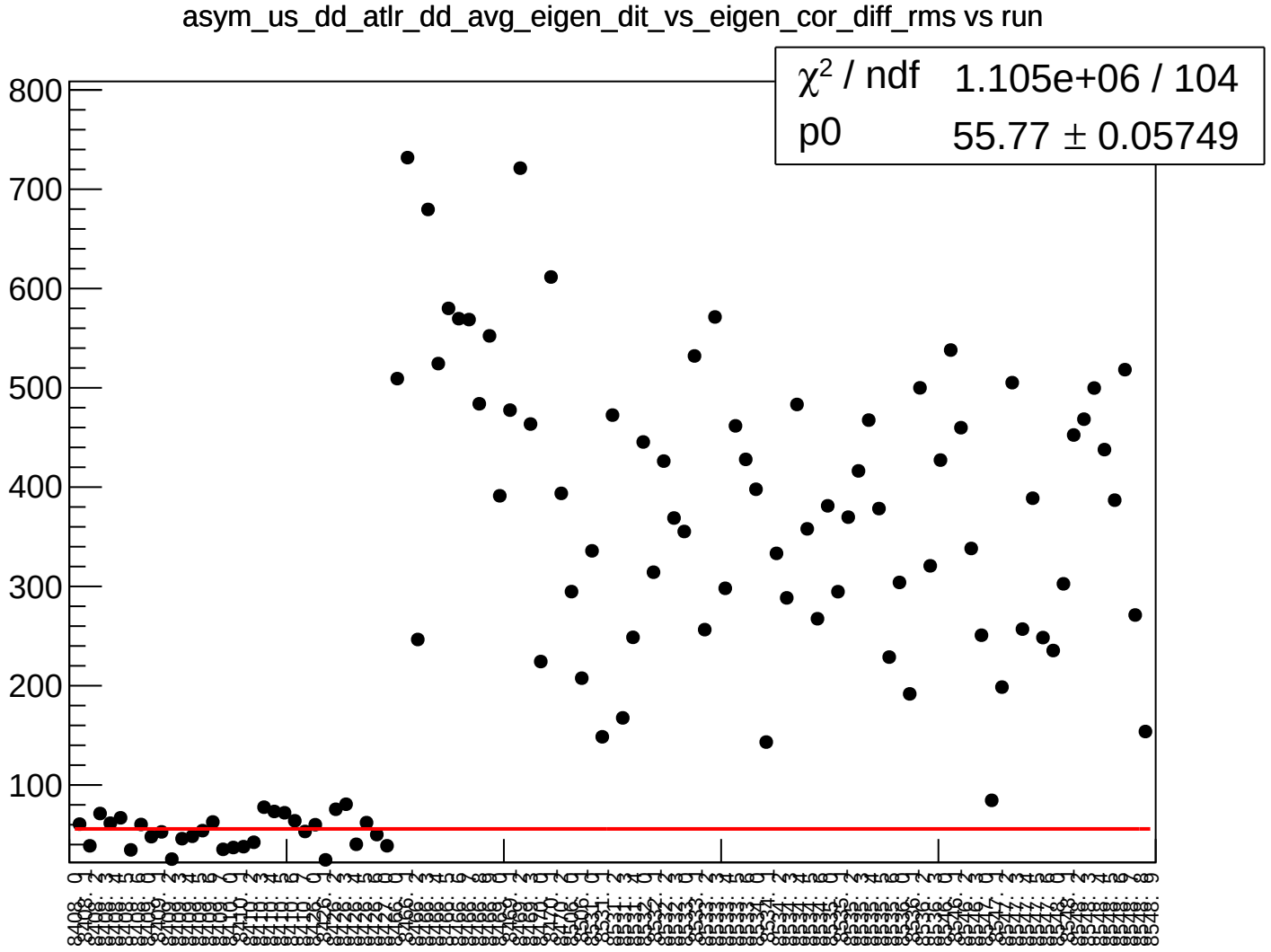

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 118 / 104
p0 3.737e−06 ± 3.164e−06
pull
Entries 105
Mean −175.7
Std Dev 0
pull1D
Entries 105
Mean 0.02283
Std Dev 1.06

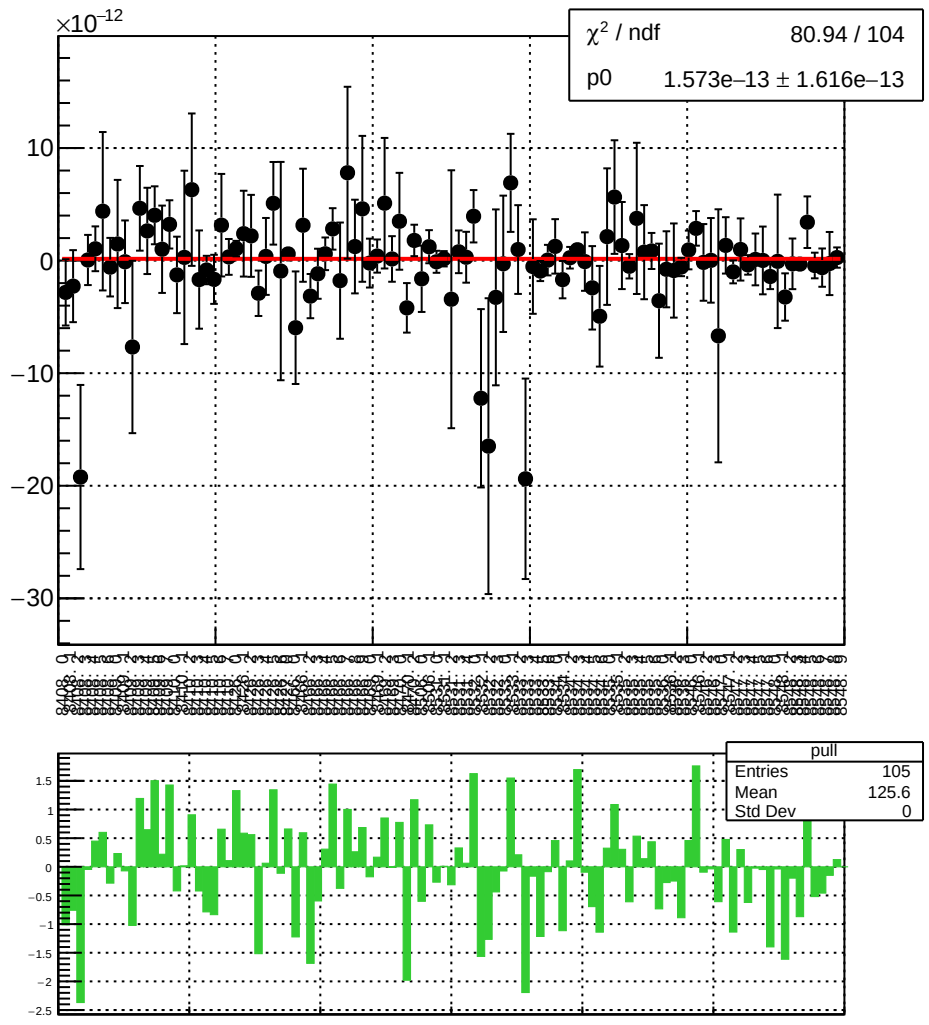

asym_us_dd_atlr_dd_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.236e+05 / 104
p0 0.00285 ± 2.238e–06
0.014
0.012
0.01
0.008
0.006
0.004
0.002

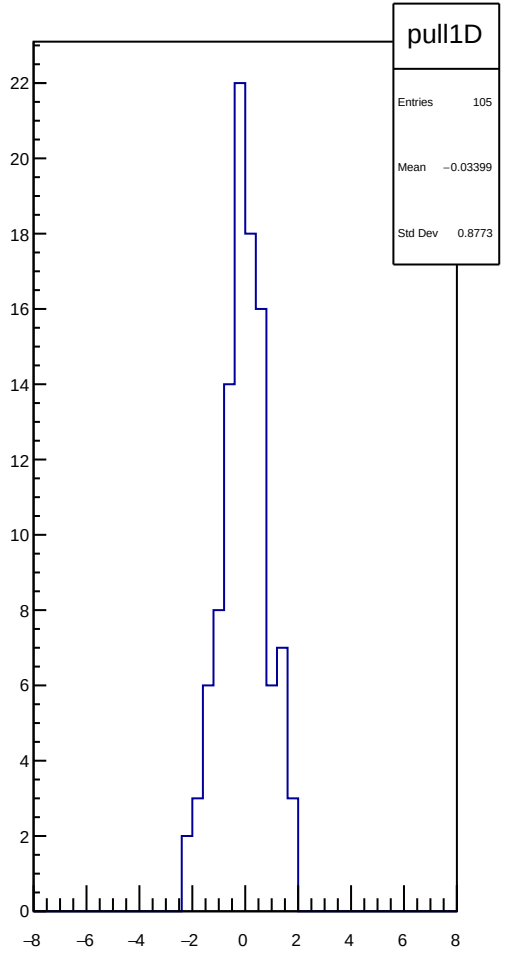

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.28 / 104
p0 −0.03725 ± 0.0813
pull
Entries 105
Mean 155.5
Std Dev 0
pull1D
Entries 105
Mean 0.008146
Std Dev 0.9425

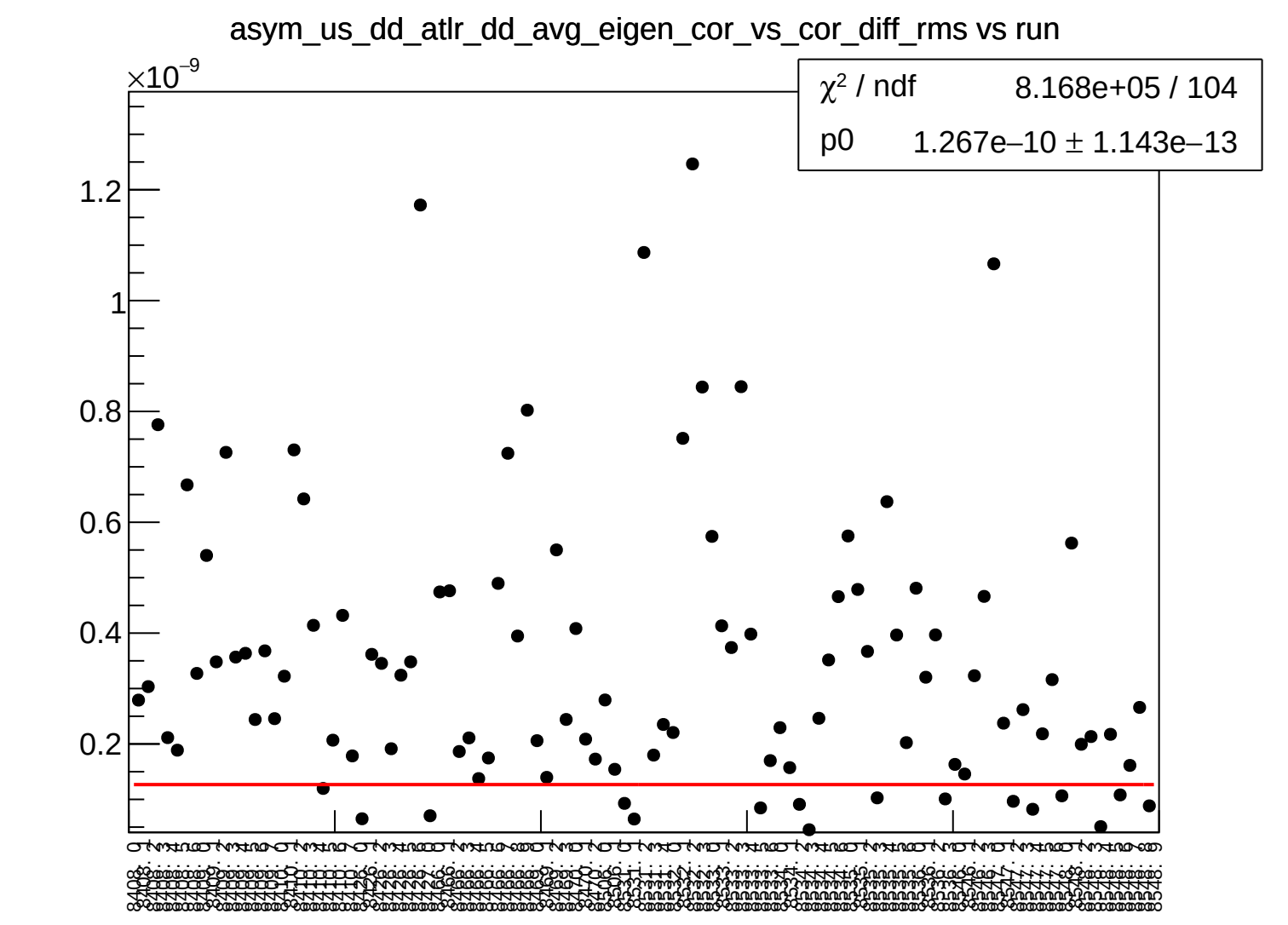

asym_us_dd_atlr_dd_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.105e+06 / 104
p0 55.77 ± 0.05749
800
700
600
500
400
300
200
100

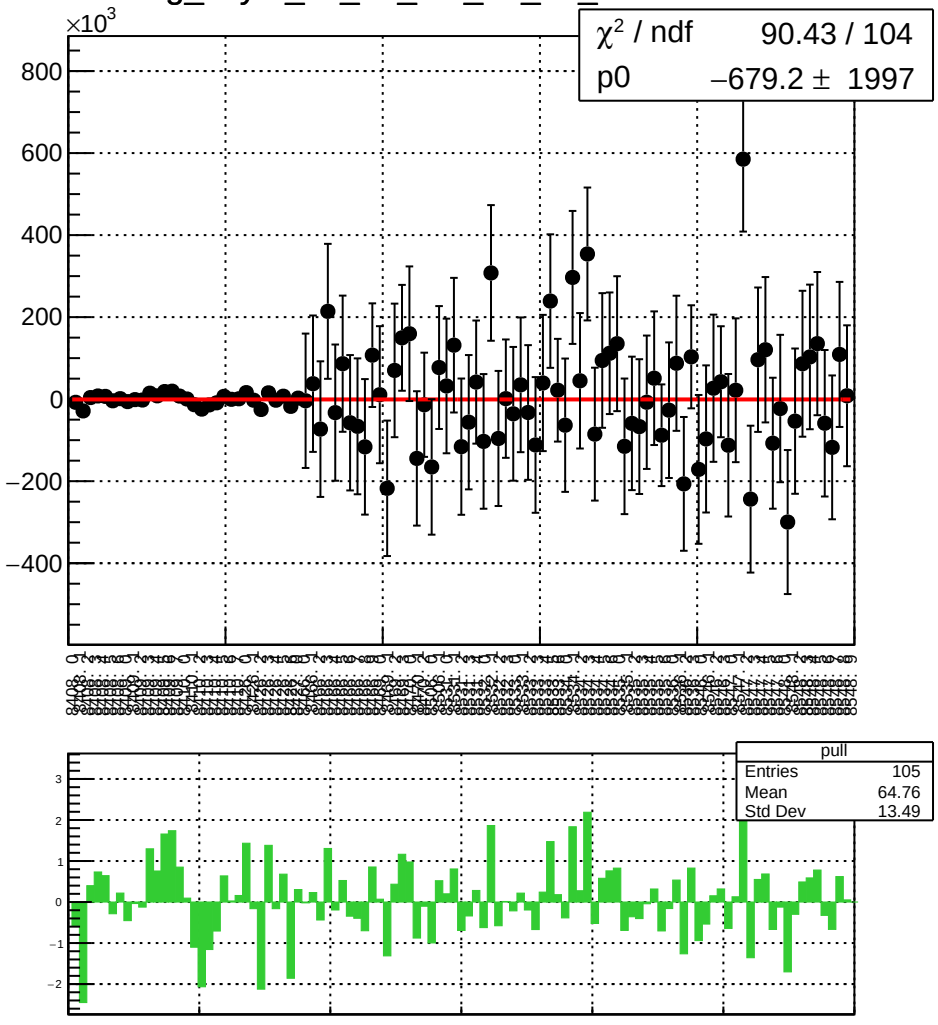

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.28 / 104
p0 −0.03725 ± 0.0813
pull
Entries 105
Mean 155.5
Std Dev 0
pull1D
Entries 105
Mean 0.008146
Std Dev 0.9425

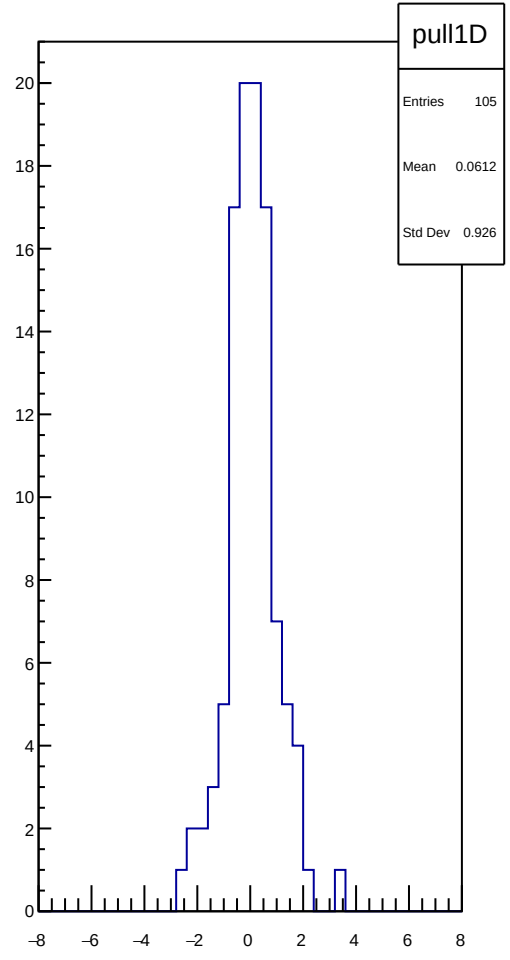

asym_us_dd_atlr_dd_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.105e+06 / 104
p0 55.77 ± 0.05749
800
700
600
500
400
300
200
100

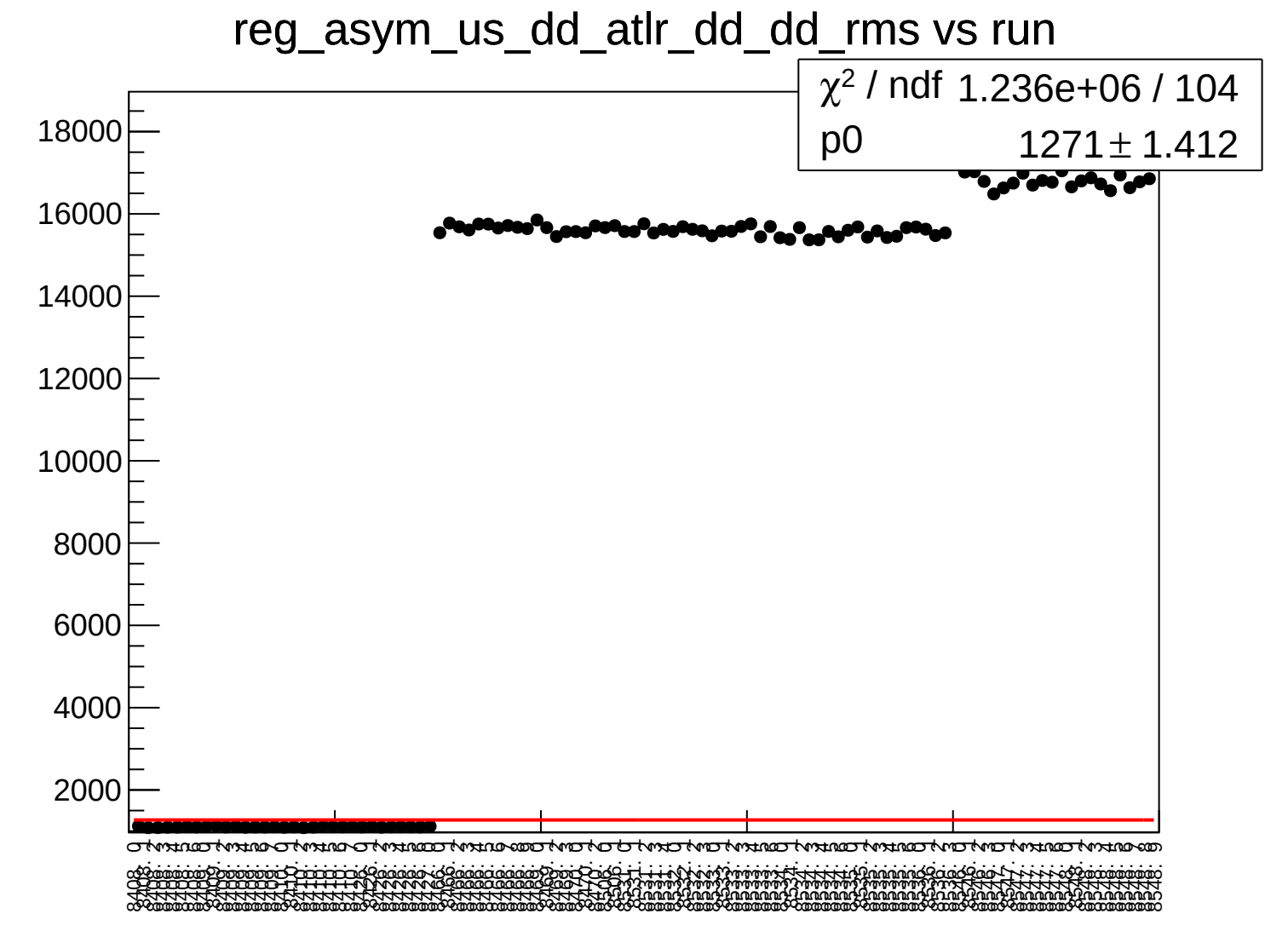

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 80.94 / 104
p0 1.573e−13 ± 1.616e−13
10
0
−10
−20
−30
pull
Entries 105
Mean 125.6
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

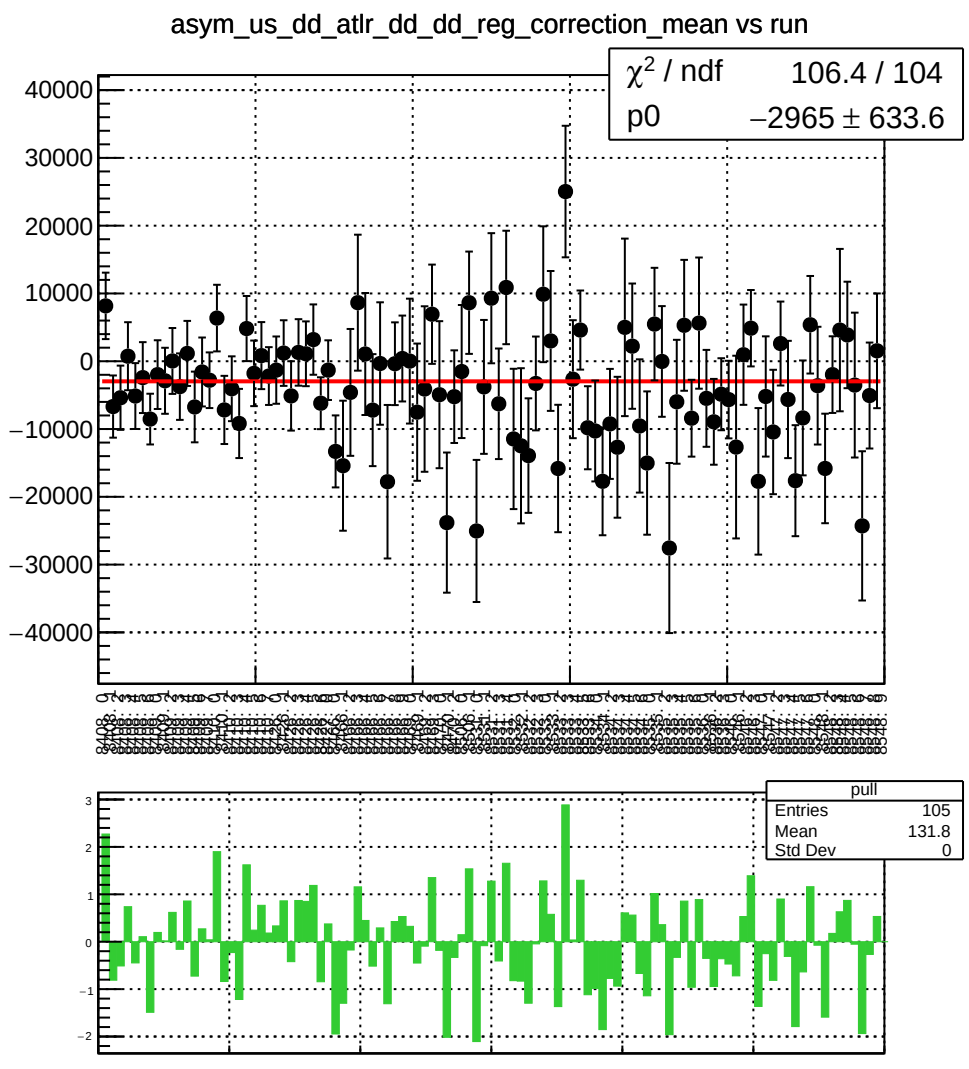

pull1D
Entries 105
Mean −0.03399
Std Dev 0.8773
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

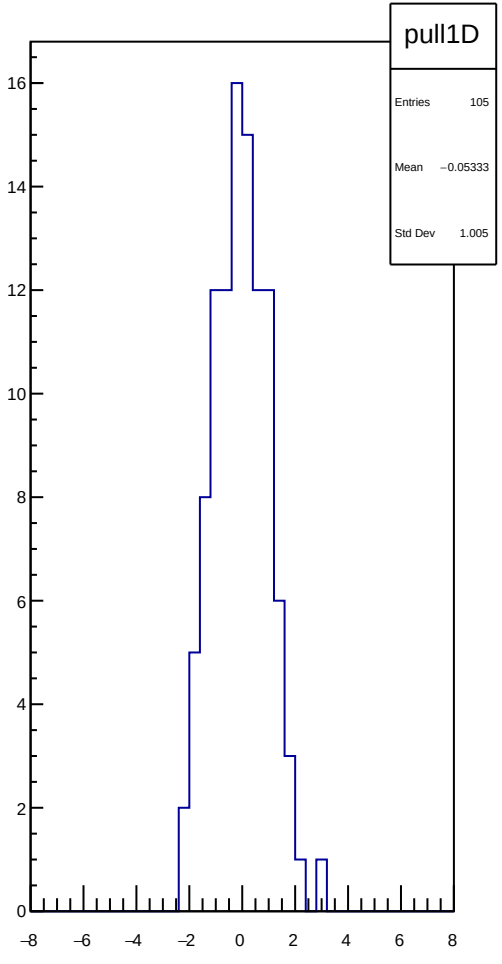

asym_us_dd_atlr_dd_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.168e+05 / 104
p0 1.267e−10 ± 1.143e−13
1.2
1
0.8
0.6
0.4
0.2

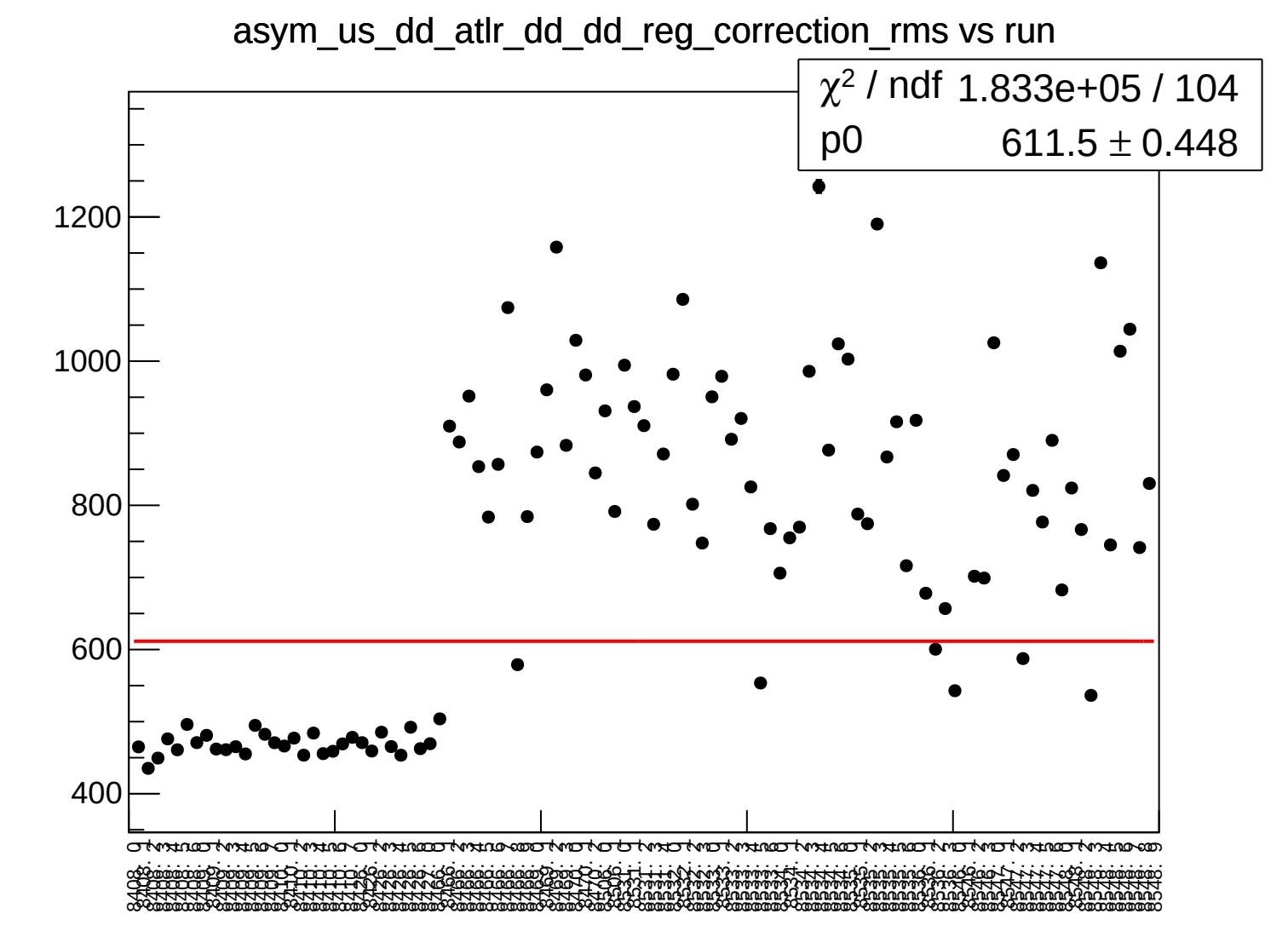

reg_asym_us_dd_atlr_dd_dd_mean vs run
×10^3
χ² / ndf 90.43 / 104
p0 −679.2 ± 1997
800
600
400
200
0
−200
−400
pull
Entries 105
Mean 64.76
Std Dev 13.49
3
2
1
0
−1
−2

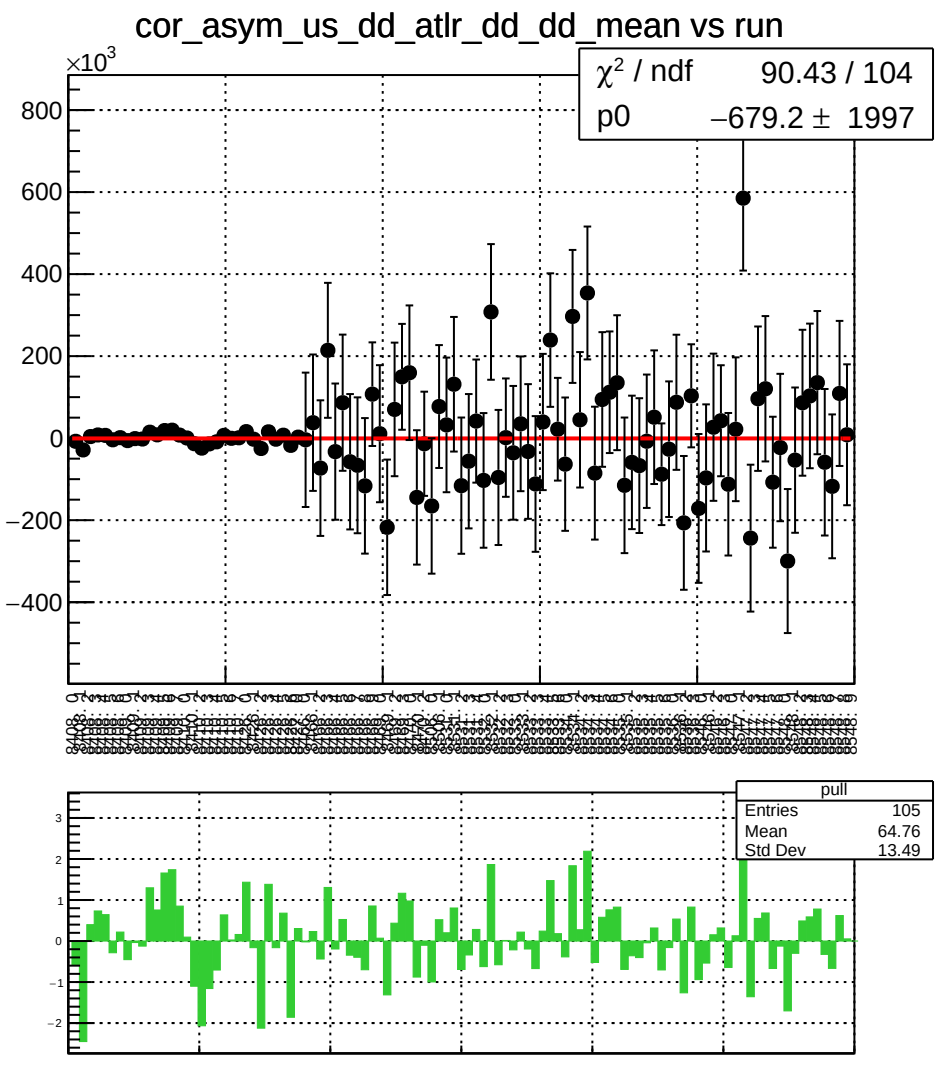

pull1D
Entries 105
Mean 0.0612
Std Dev 0.926
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

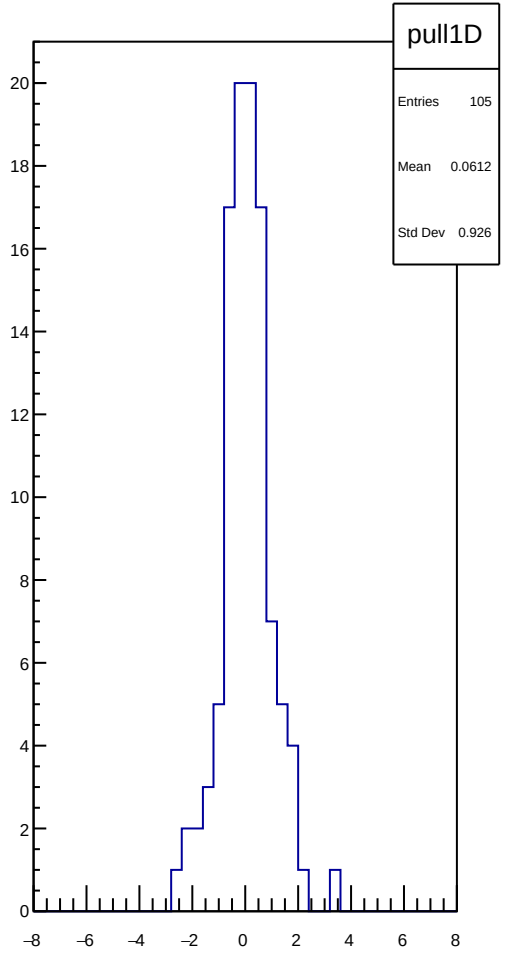

reg_asym_us_dd_atlr_dd_dd_rms vs run
χ^2 / ndf 1.236e+06 / 104
p0 1271 ± 1.412
18000
16000
14000
12000
10000
8000
6000
4000
2000

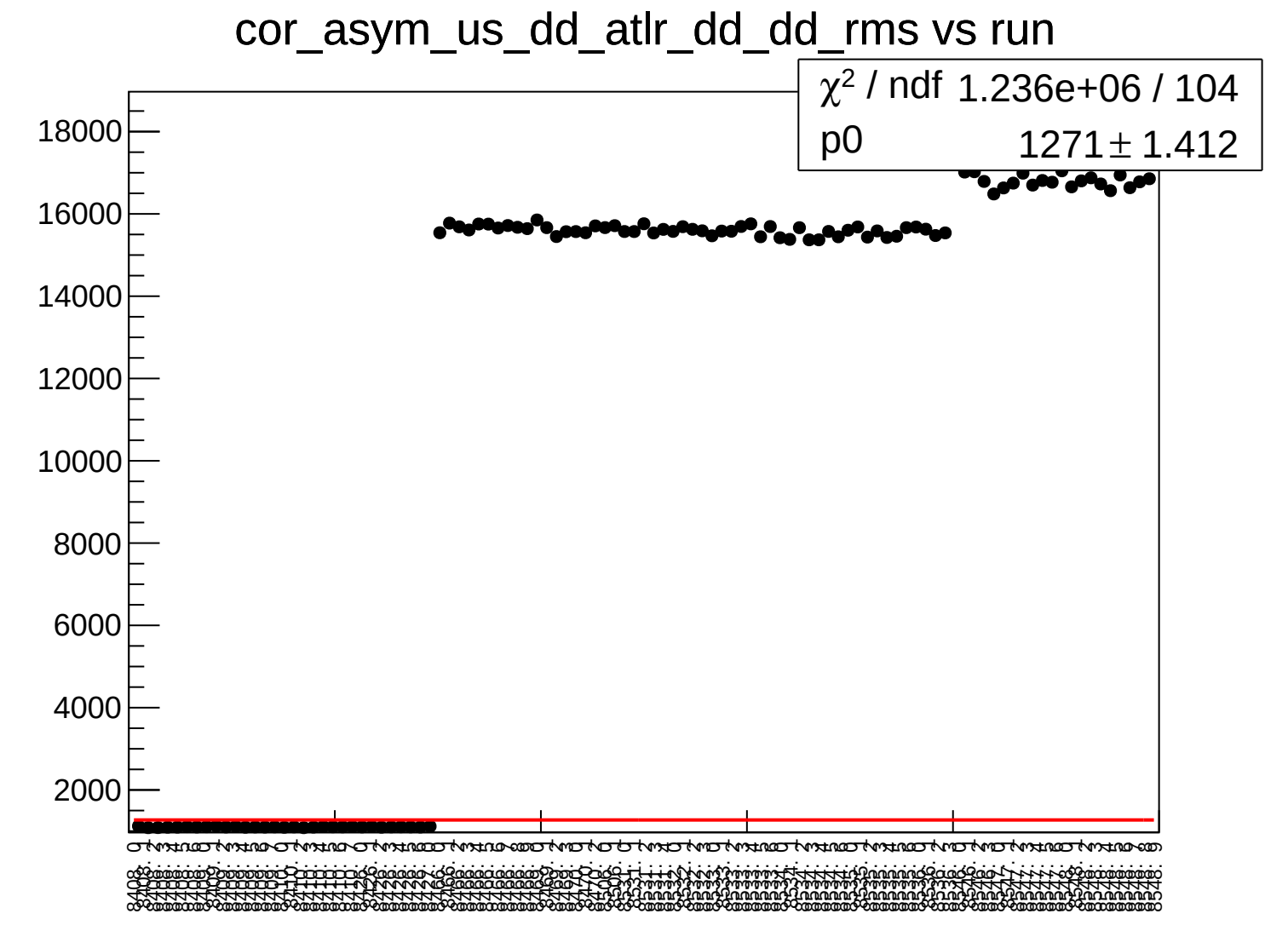

asym_us_dd_atlr_dd_dd_reg_correction_mean vs run
χ² / ndf 106.4 / 104
p0 −2965 ± 633.6
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 105
Mean 131.8
Std Dev 0
3
2
1
0
−1
−2

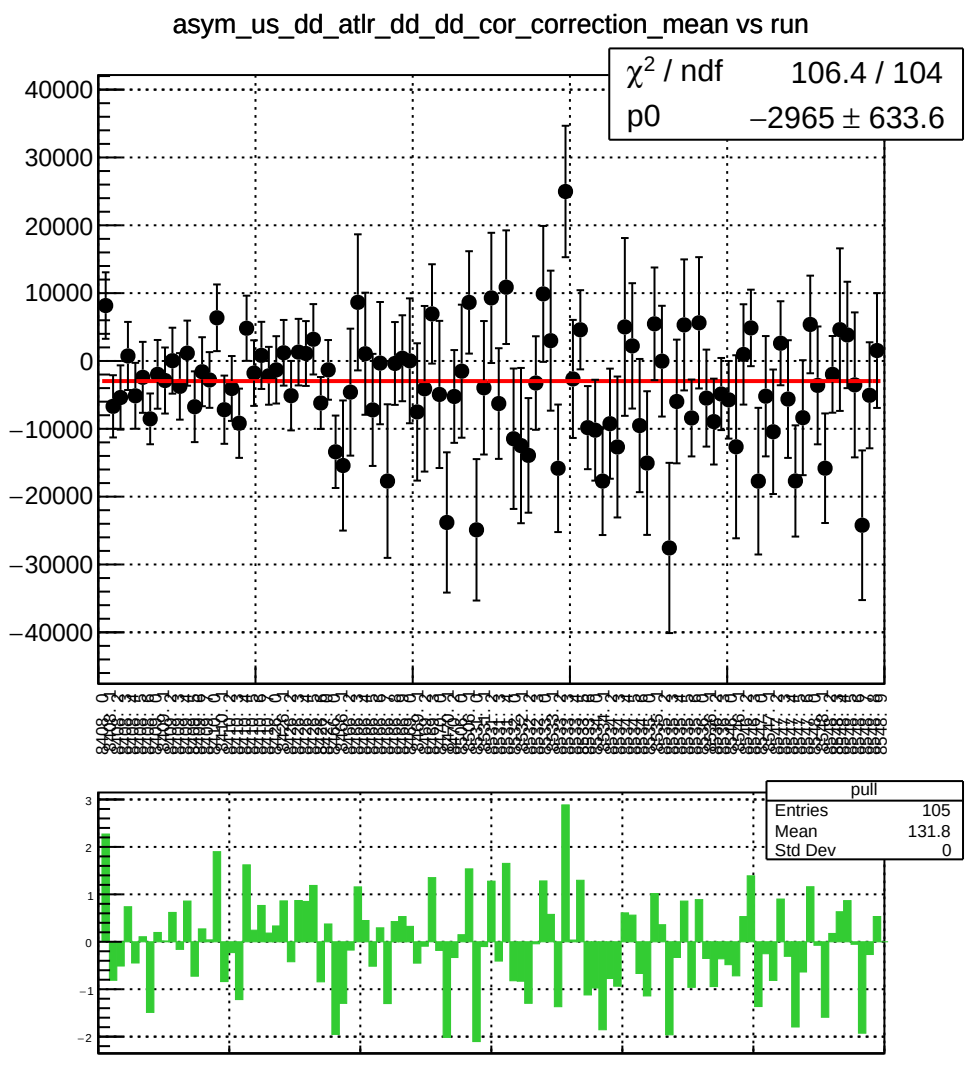

pull1D
Entries 105
Mean −0.05333
Std Dev 1.005
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

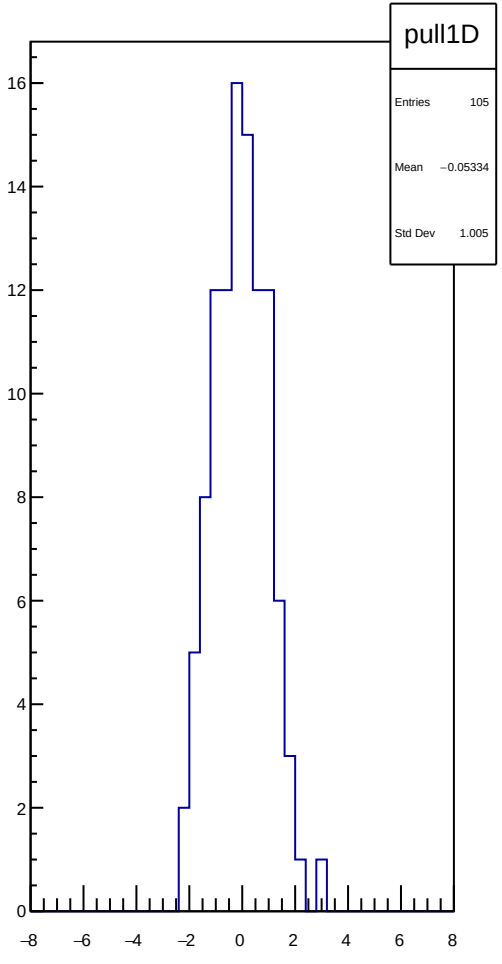

asym_us_dd_atlr_dd_dd_reg_correction_rms vs run
χ² / ndf 1.833e+05 / 104
p0 611.5 ± 0.448
1200
1000
800
600
400

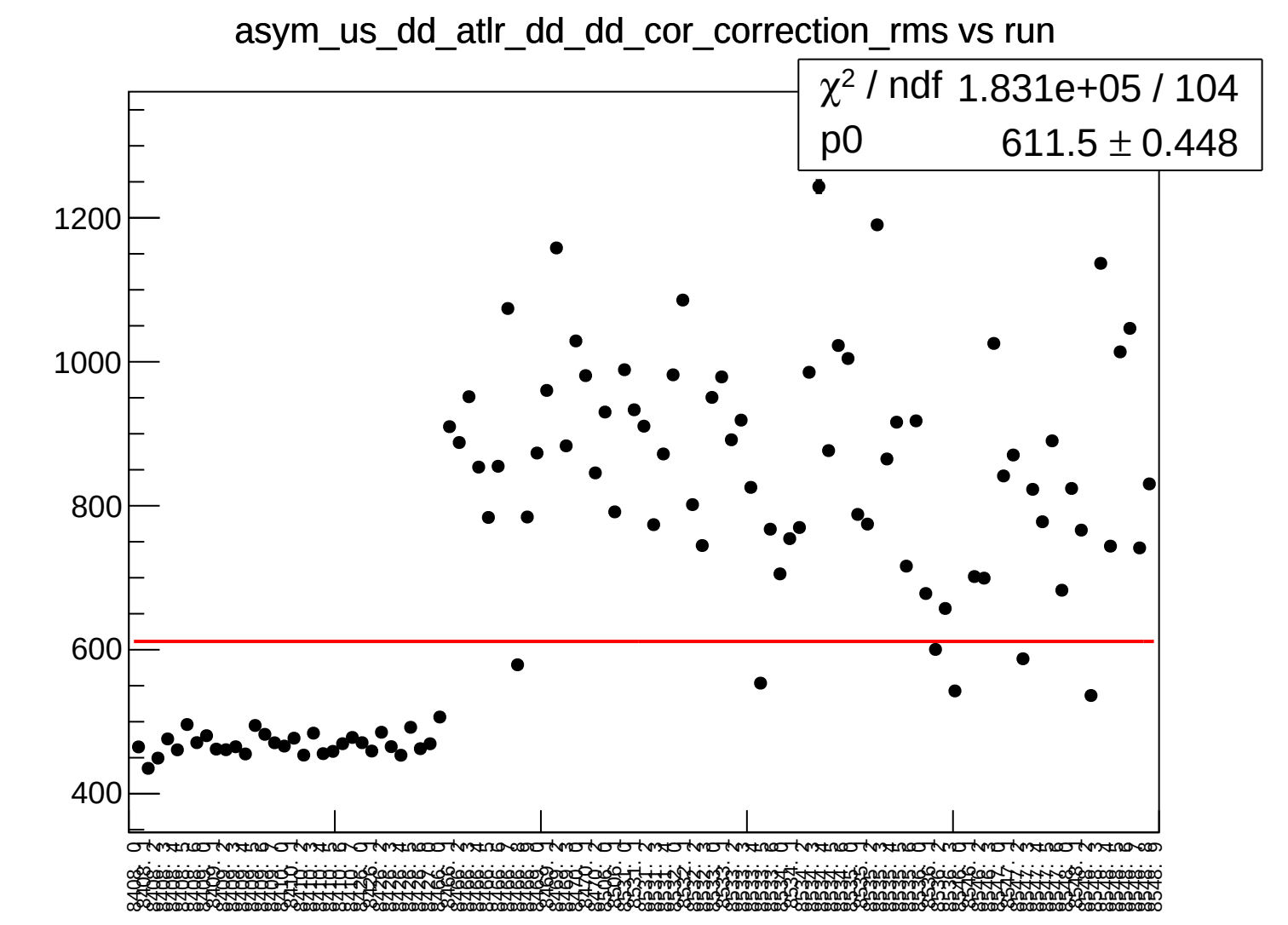

cor_asym_us_dd_atlr_dd_dd_mean vs run
×10^3
χ² / ndf 90.43 / 104
p0 −679.2 ± 1997
800
600
400
200
0
−200
−400
pull
Entries 105
Mean 64.76
Std Dev 13.49
3
2
1
0
−1
−2

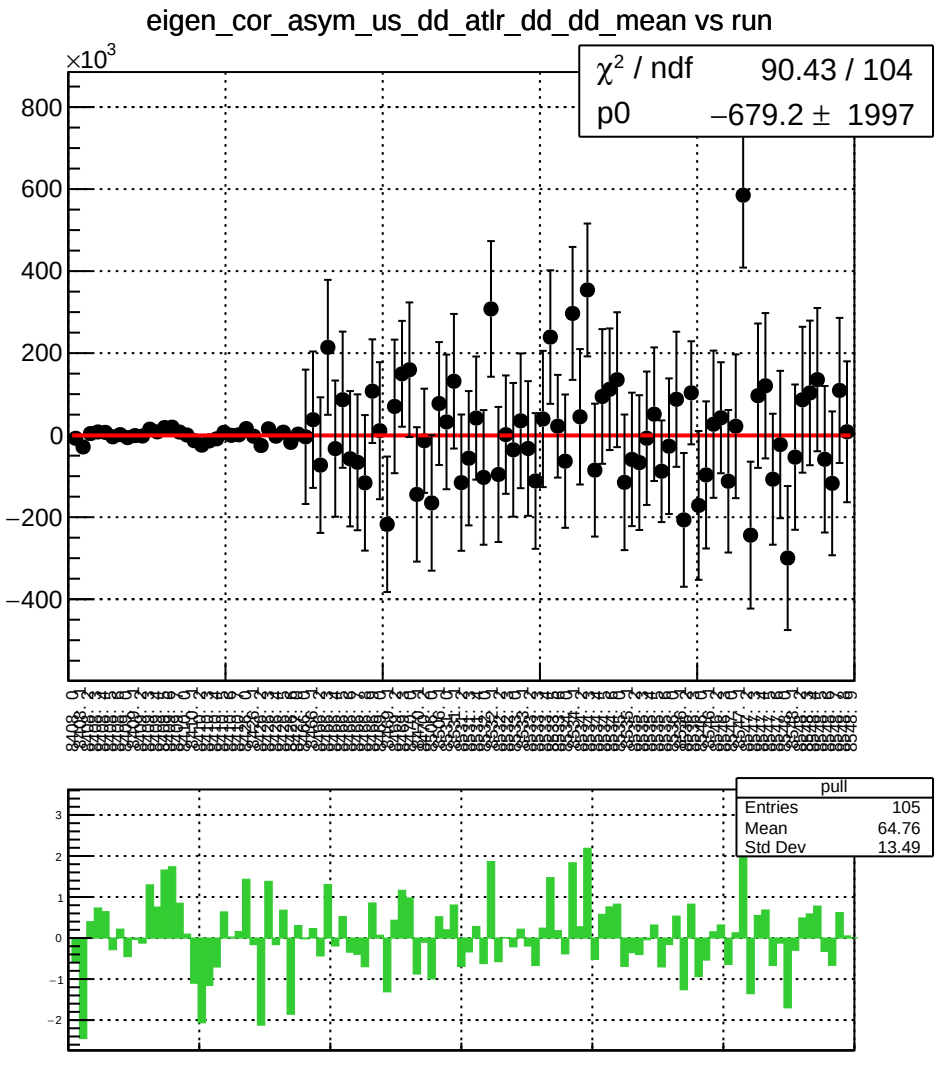

pull1D
Entries 105
Mean 0.0612
Std Dev 0.926
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

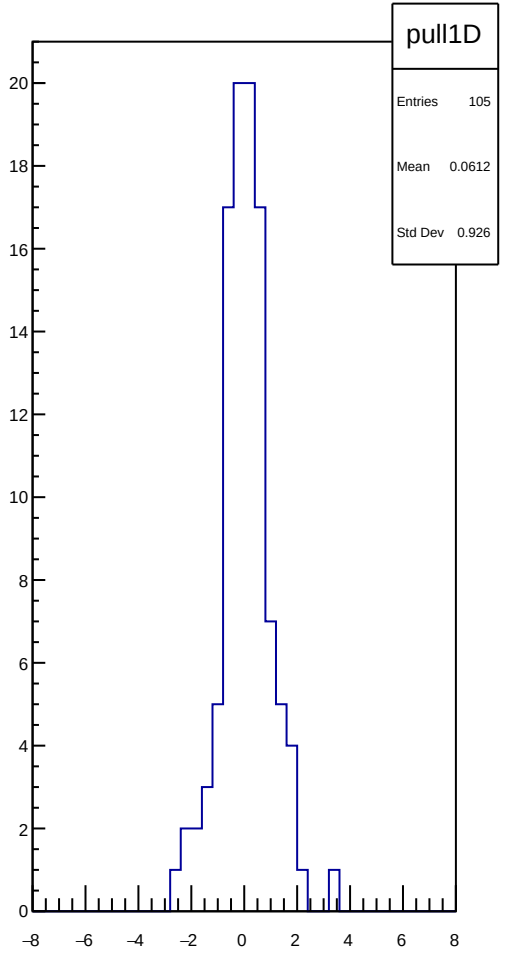

cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 1.236e+06 / 104
p0 1271 ± 1.412
18000
16000
14000
12000
10000
8000
6000
4000
2000

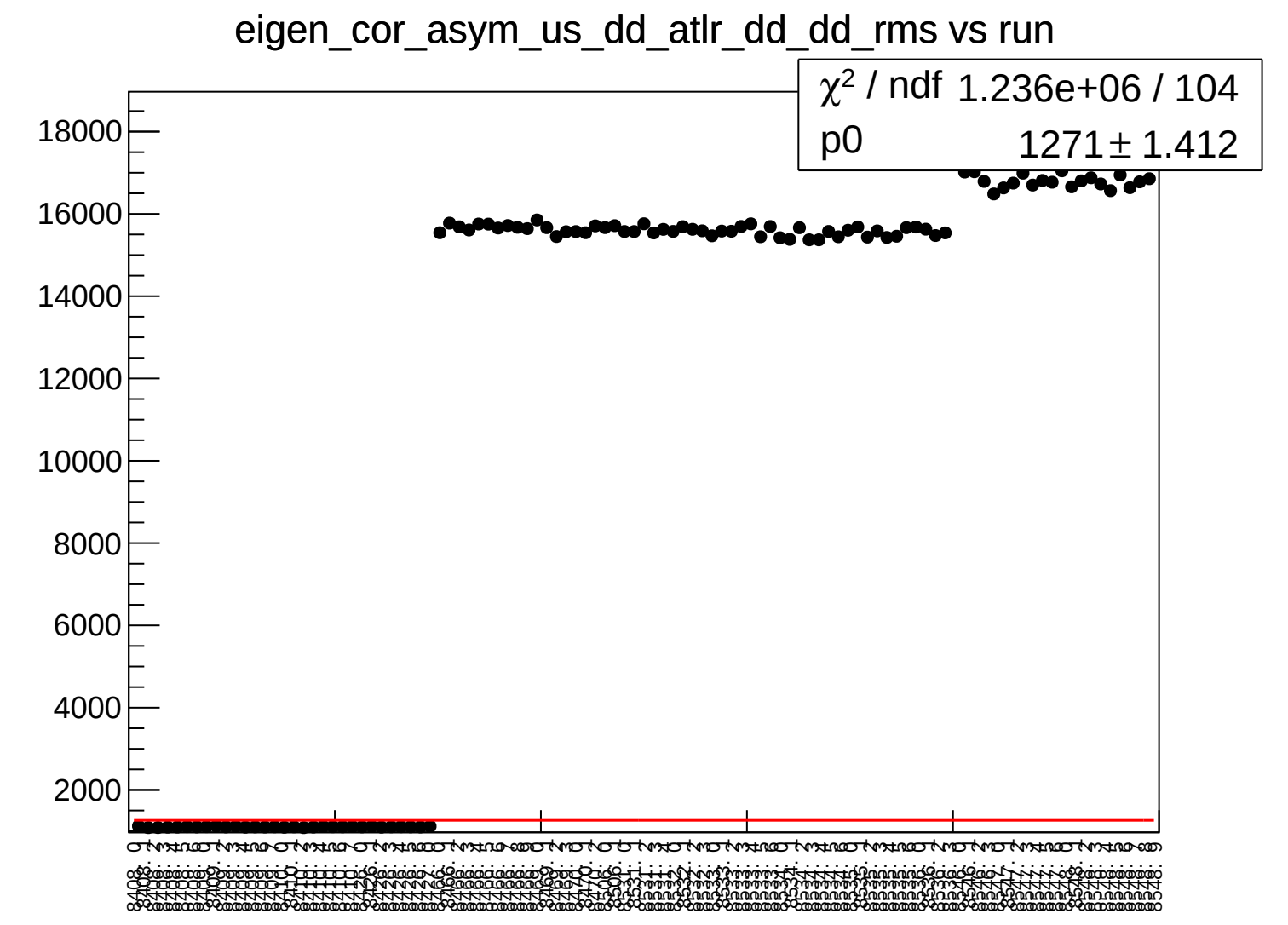

asym_us_dd_atlr_dd_dd_cor_correction_mean vs run
χ² / ndf 106.4 / 104
p0 −2965 ± 633.6
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 105
Mean 131.8
Std Dev 0
3
2
1
0
−1
−2

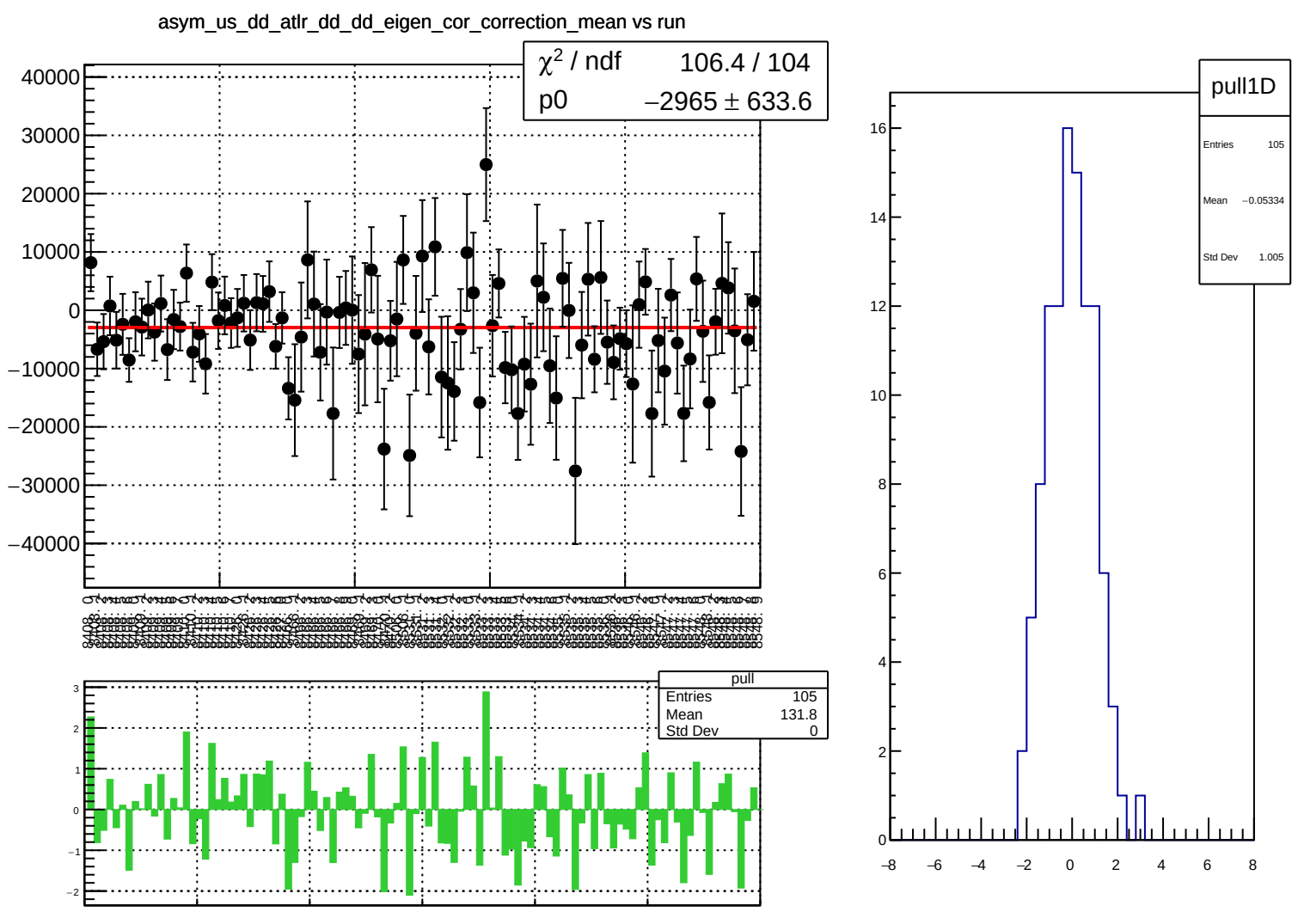

pull1D
Entries 105
Mean −0.05334
Std Dev 1.005
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

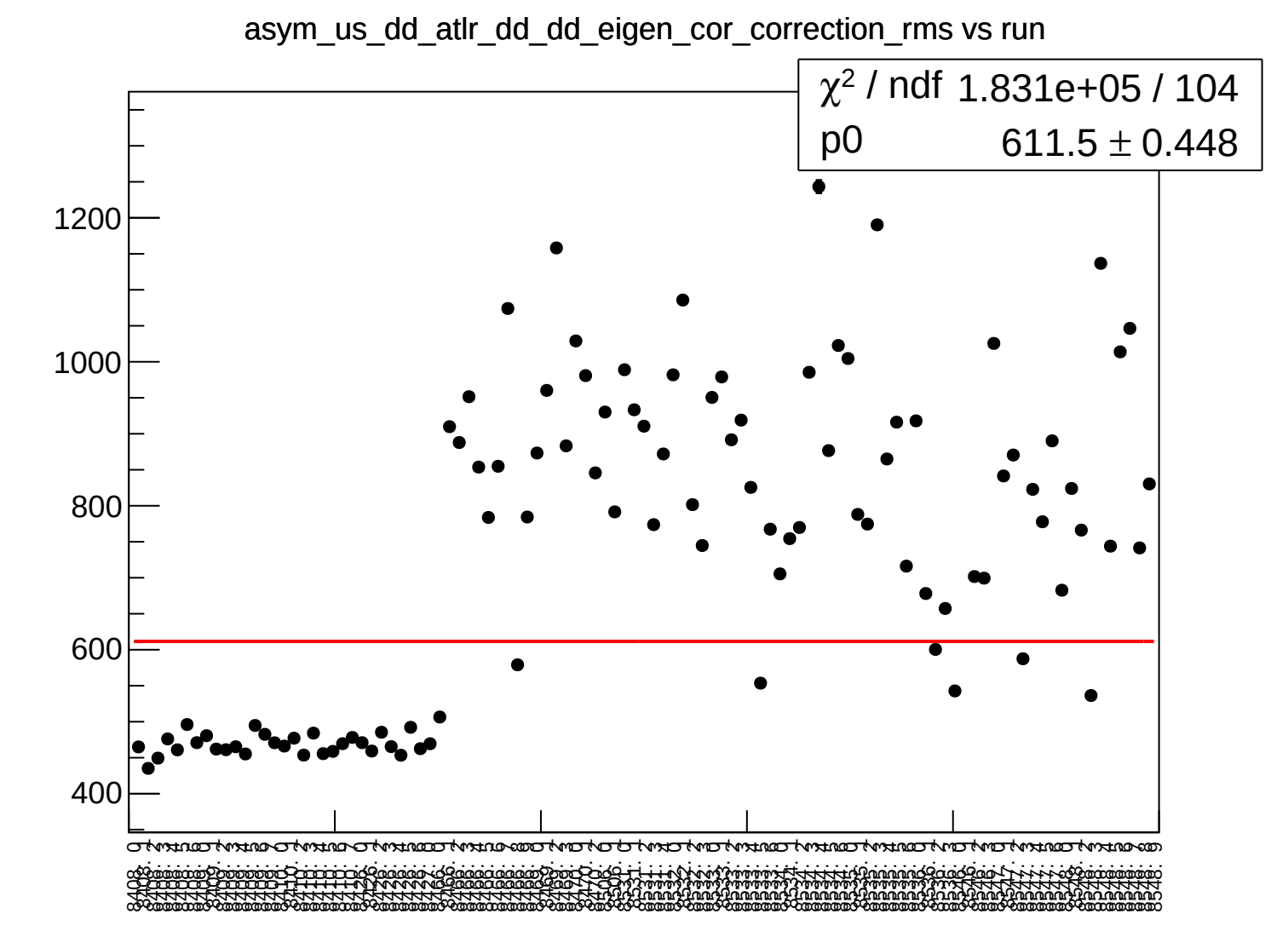

asym_us_dd_atlr_dd_dd_cor_correction_rms vs run
χ² / ndf 1.831e+05 / 104
p0 611.5 ± 0.448
1200
1000
800
600
400

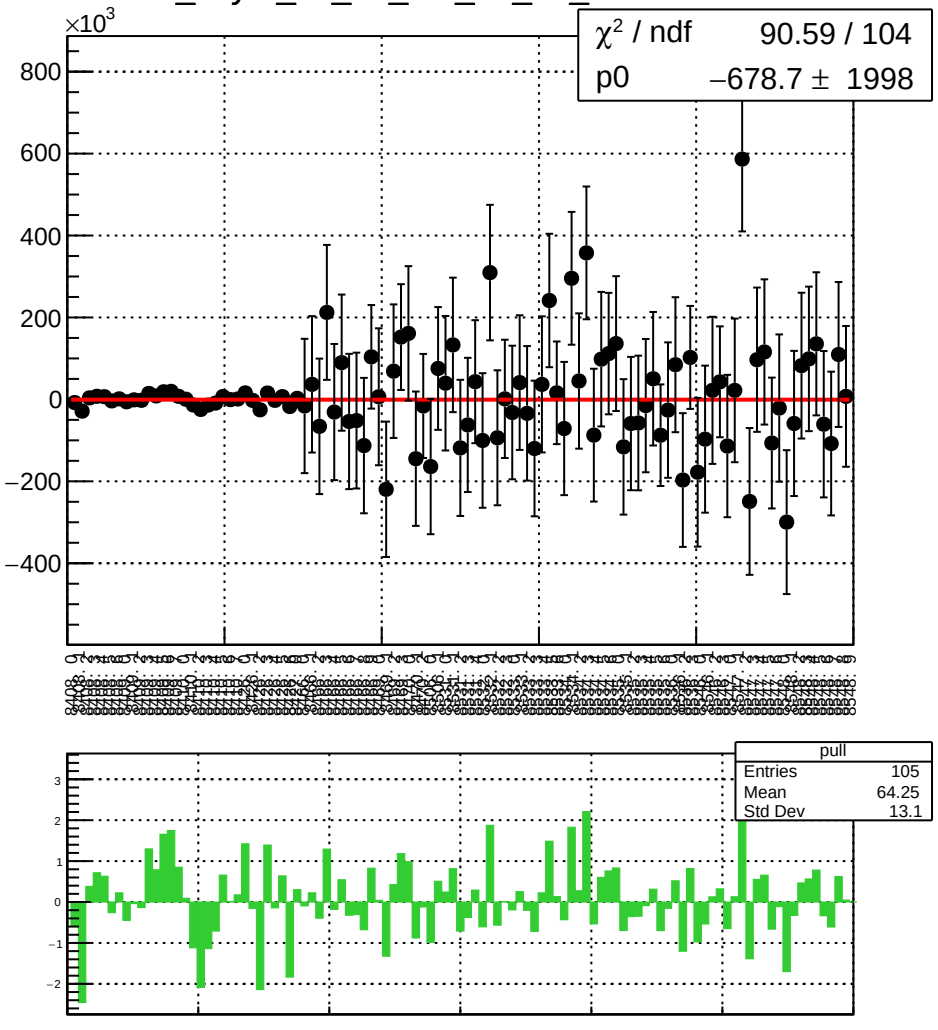

eigen_cor_asym_us_dd_atlr_dd_dd_mean vs run
×10^3
χ² / ndf 90.43 / 104
p0 −679.2 ± 1997
800
600
400
200
0
−200
−400
pull
Entries 105
Mean 64.76
Std Dev 13.49
3
2
1
0
−1
−2

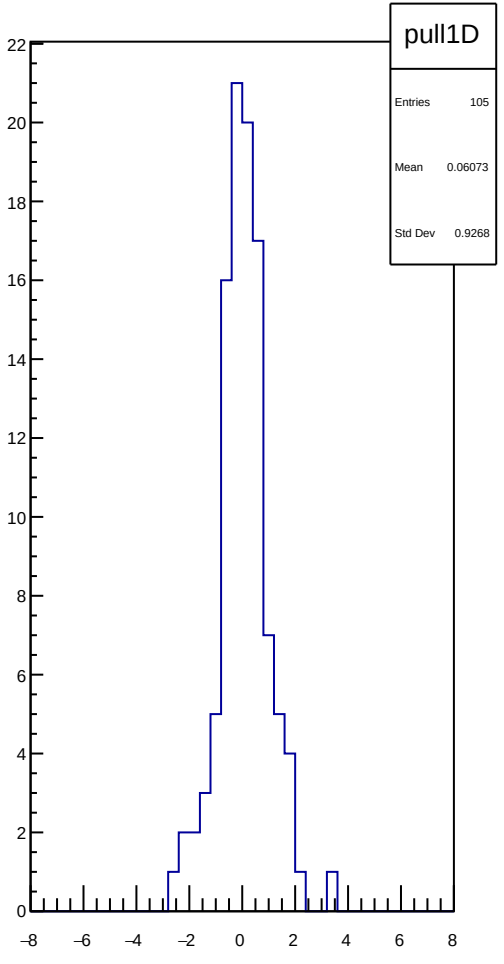

pull1D
Entries 105
Mean 0.0612
Std Dev 0.926
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

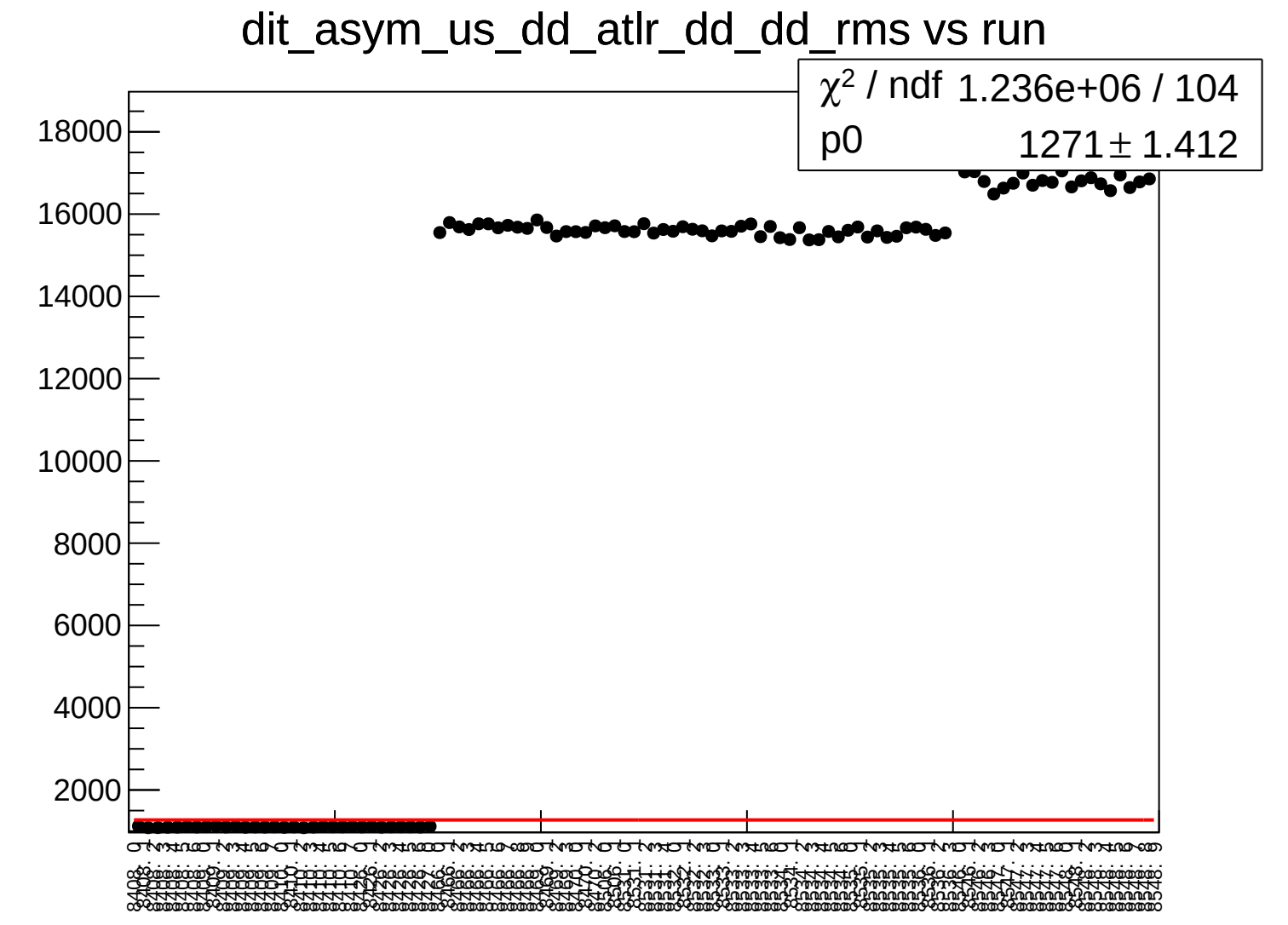

eigen_cor_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 1.236e+06 / 104
p0 1271 ± 1.412
18000
16000
14000
12000
10000
8000
6000
4000
2000

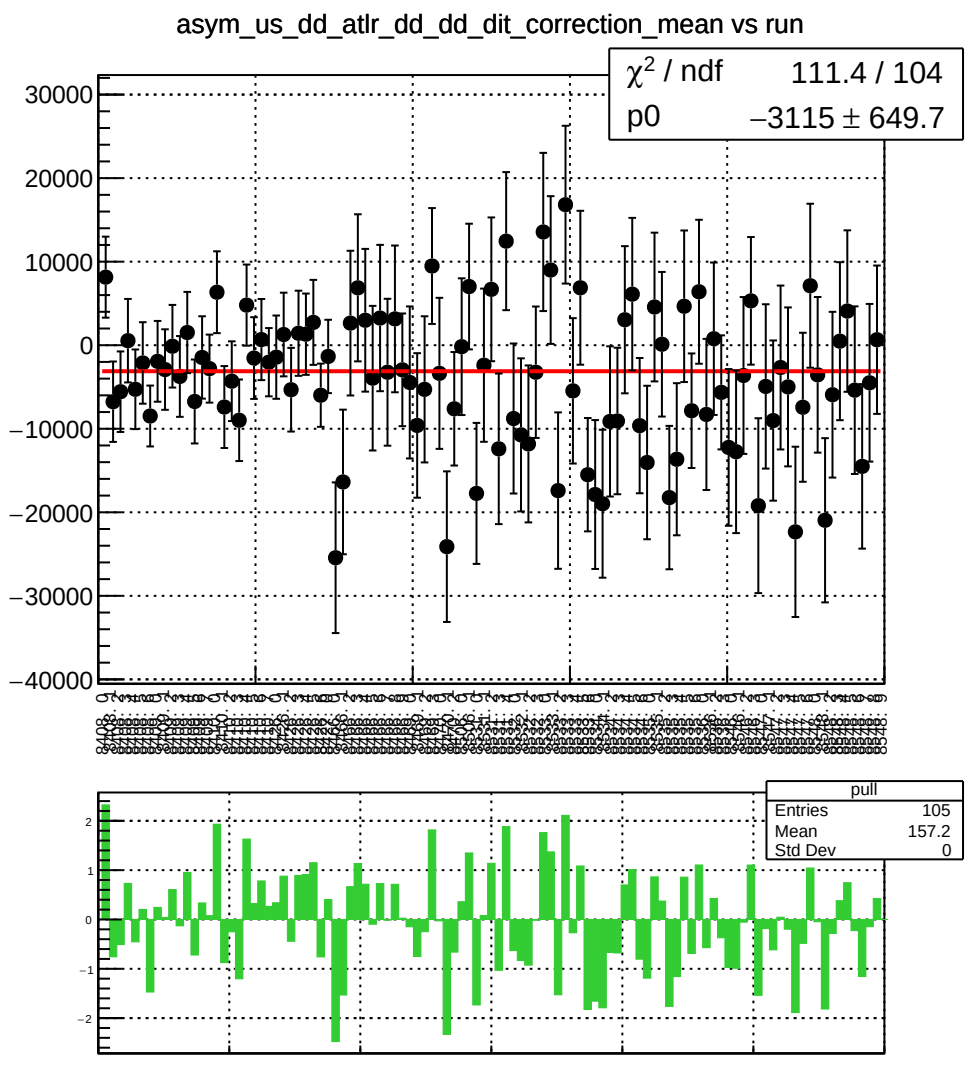

asym_us_dd_atlr_dd_dd_eigen_cor_correction_mean vs run
χ² / ndf 106.4 / 104
p0 −2965 ± 633.6
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 105
Mean 131.8
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.05334
Std Dev 1.005
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

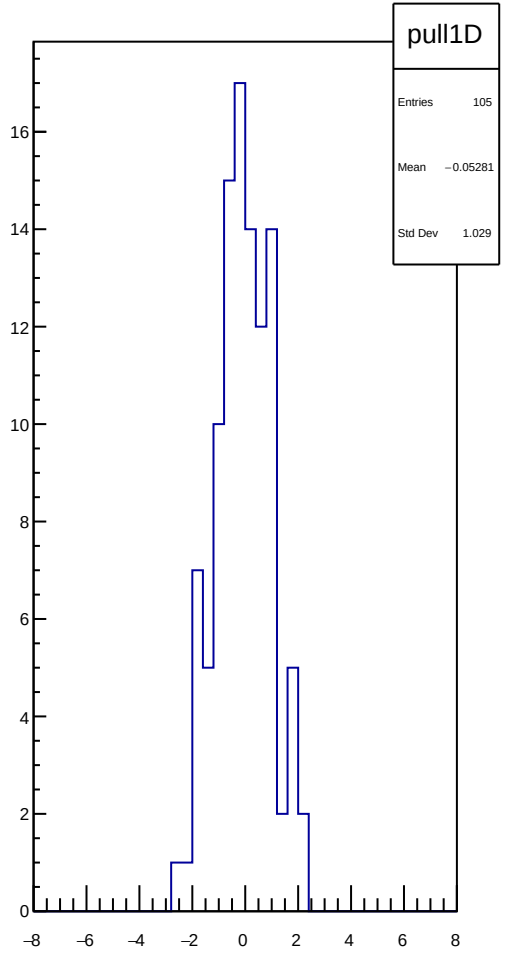

asym_us_dd_atlr_dd_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.831e+05 / 104
p0 611.5 ± 0.448
1200
1000
800
600
400

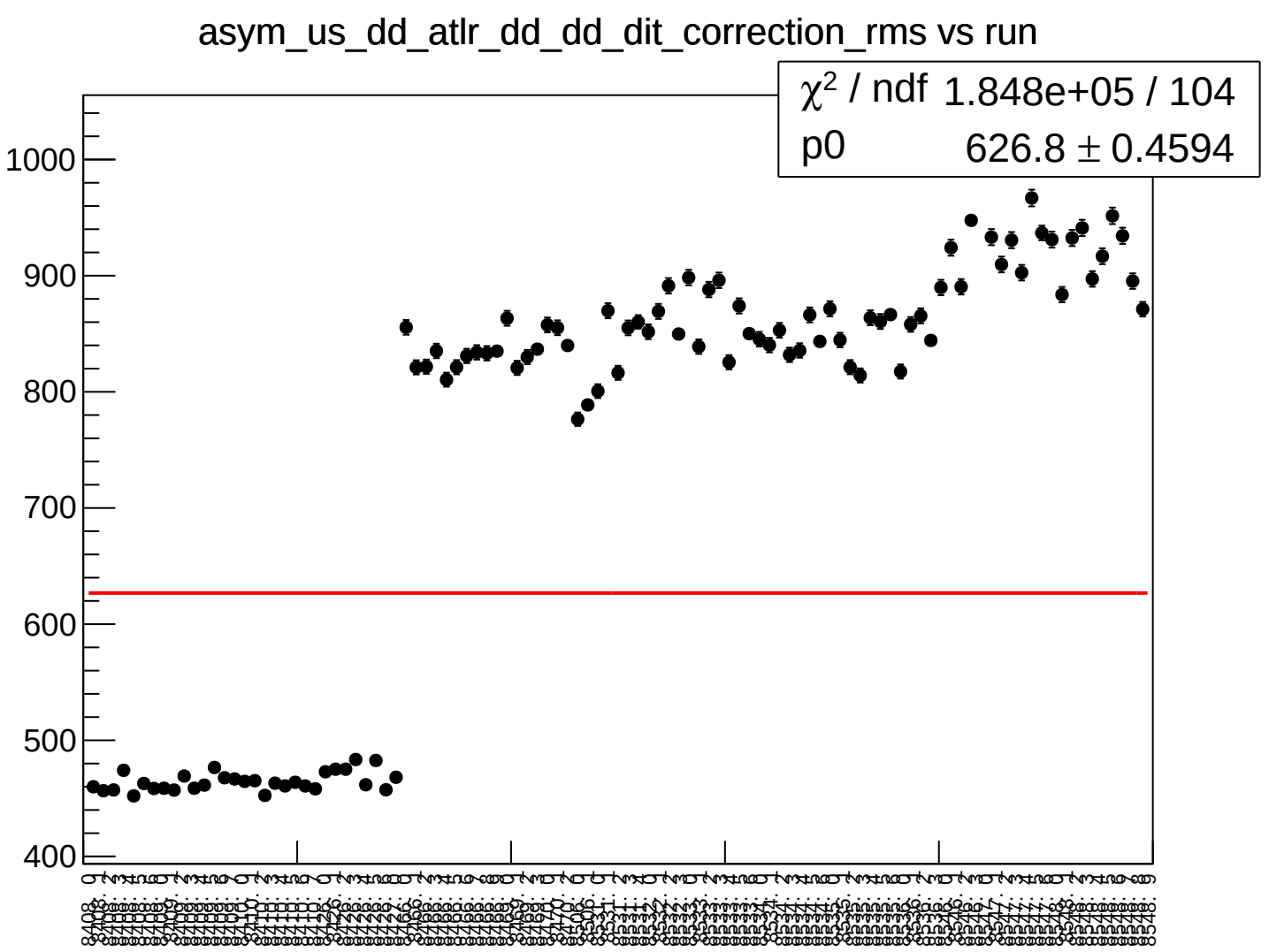

dit_asym_us_dd_atlr_dd_dd_mean vs run
χ² / ndf 90.59 / 104
p0 −678.7 ± 1998
×10³
800
600
400
200
0
−200
−400
pull
Entries 105
Mean 64.25
Std Dev 13.1
3
2
1
0
−1
−2

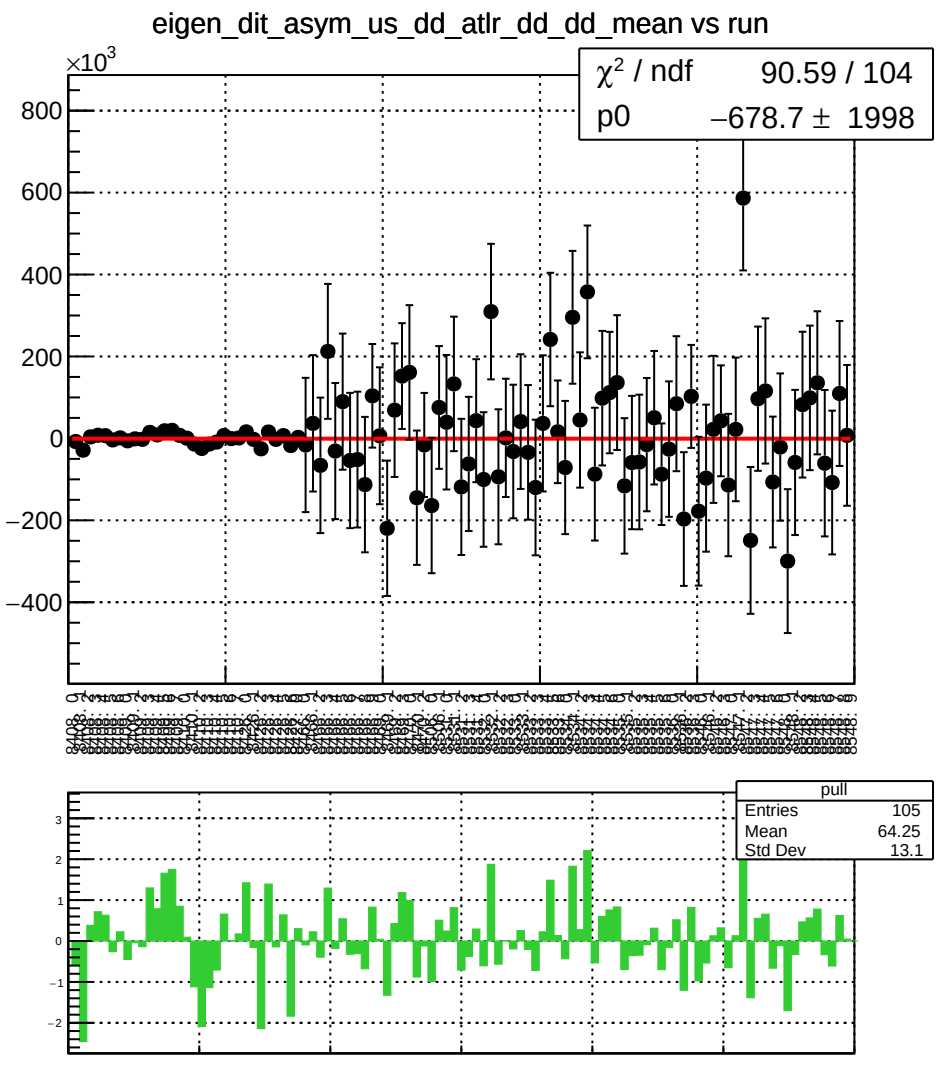

pull1D
Entries 105
Mean 0.06073
Std Dev 0.9268
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

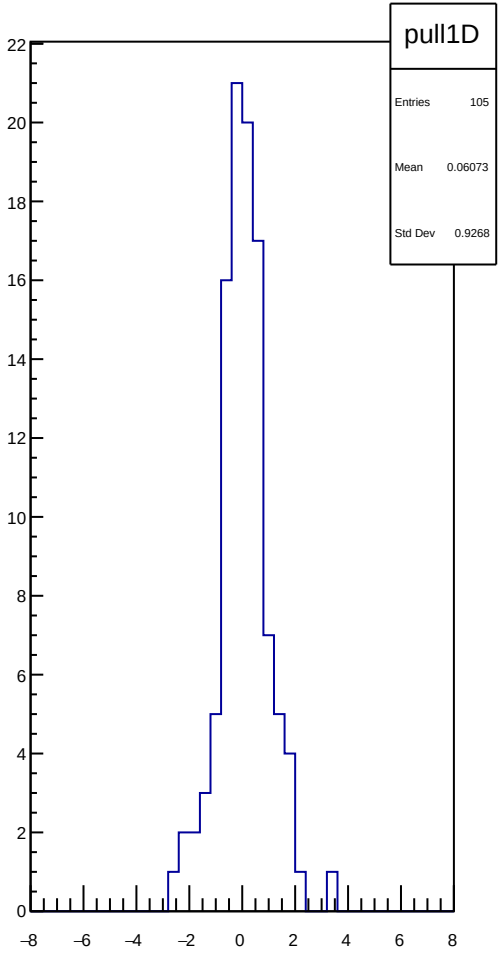

dit_asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 1.236e+06 / 104
p0 1271 ± 1.412
18000
16000
14000
12000
10000
8000
6000
4000
2000

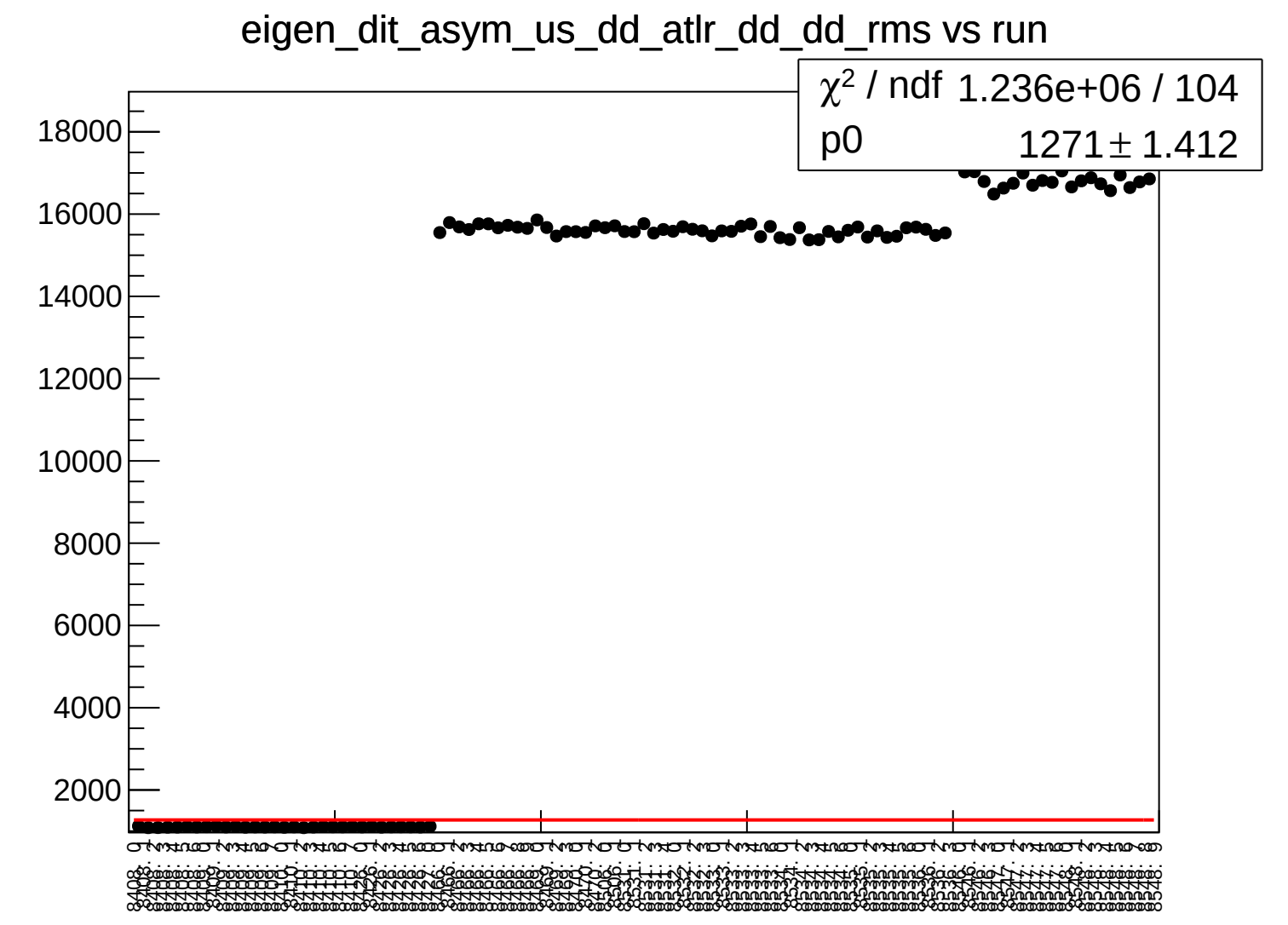

asym_us_dd_atlr_dd_dd_dit_correction_mean vs run
χ² / ndf 111.4 / 104
p0 −3115 ± 649.7
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 105
Mean 157.2
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 105
Mean −0.05281
Std Dev 1.029
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

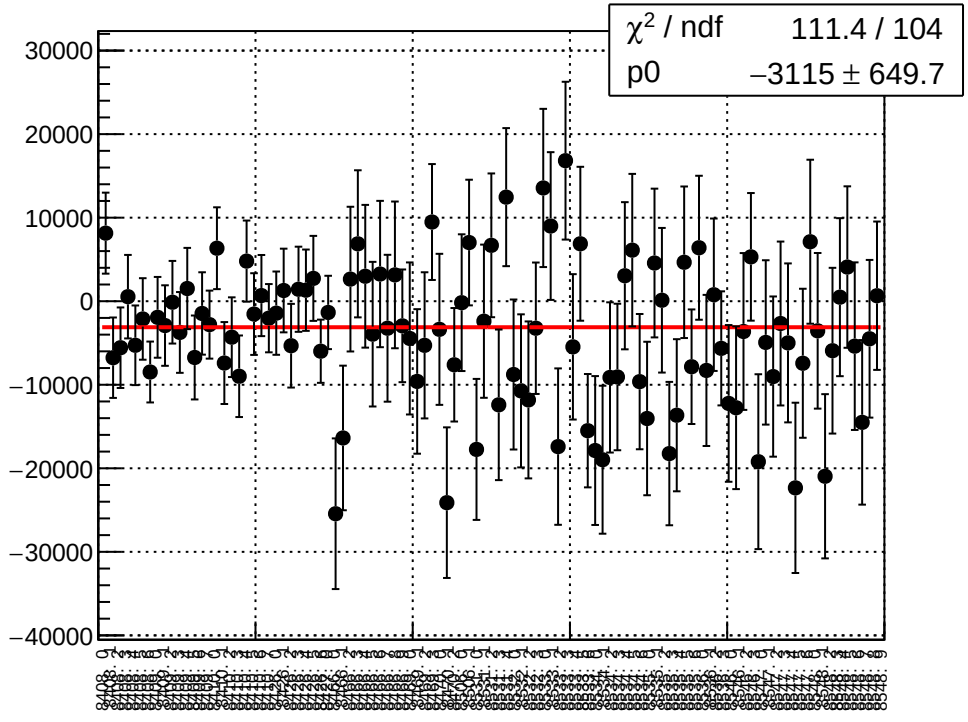

asym_us_dd_atlr_dd_dd_dit_correction_rms vs run
χ² / ndf 1.848e+05 / 104
p0 626.8 ± 0.4594
1000
900
800
700
600
500
400

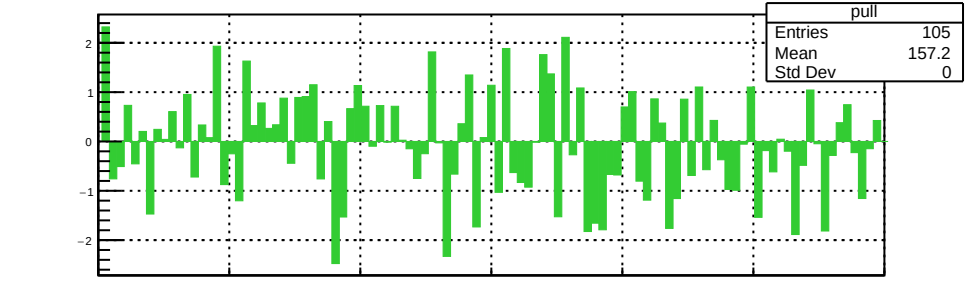

eigen_dit_asym_us_dd_atlr_dd_dd_mean vs run
×10^3
χ² / ndf 90.59 / 104
p0 −678.7 ± 1998
800
600
400
200
0
−200
−400
pull
Entries 105
Mean 64.25
Std Dev 13.1
3
2
1
0
−1
−2

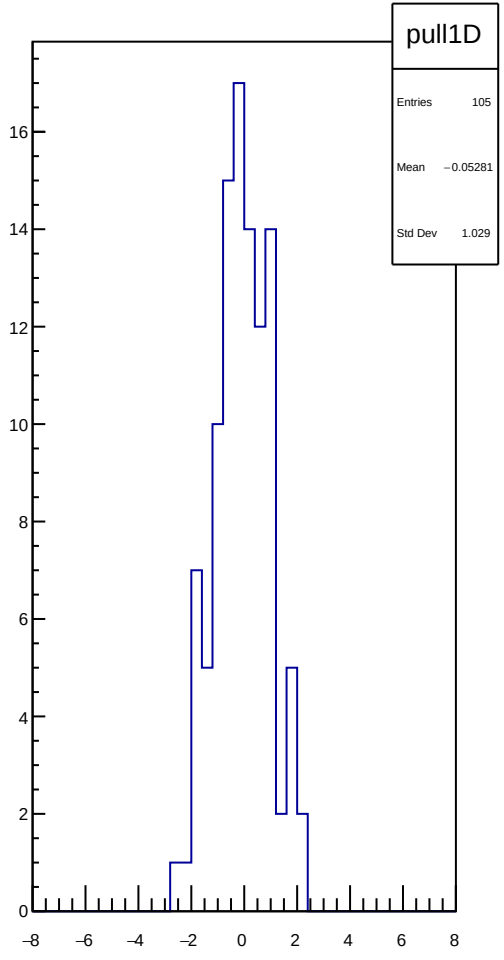

pull1D
Entries 105
Mean 0.06073
Std Dev 0.9268
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

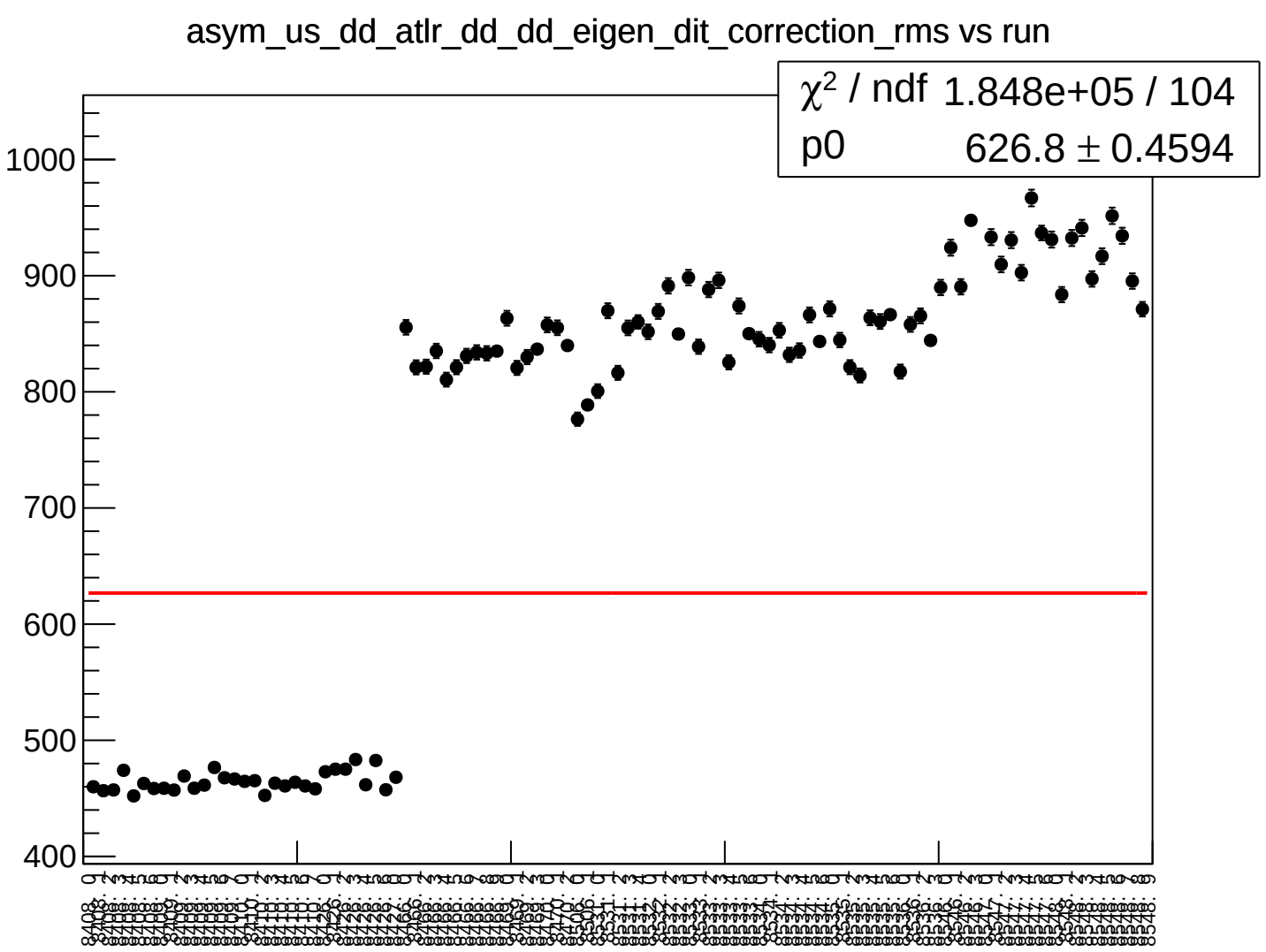

eigen_dit_asym_us_dd_atlr_dd_dd_rms vs run
χ^2 / ndf 1.236e+06 / 104
p0 1271 ± 1.412
18000
16000
14000
12000
10000
8000
6000
4000
2000

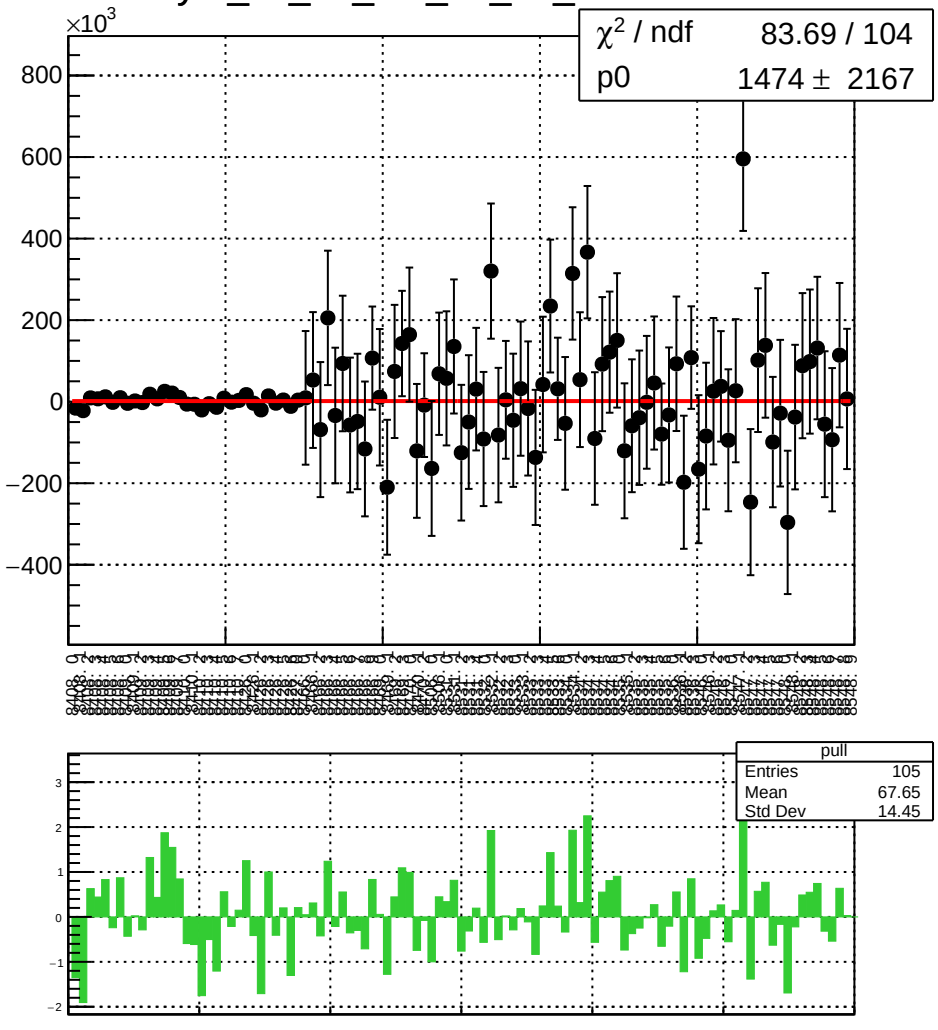
asym_us_dd_atlr_dd_dd_eigen_dit_correction_mean vs run

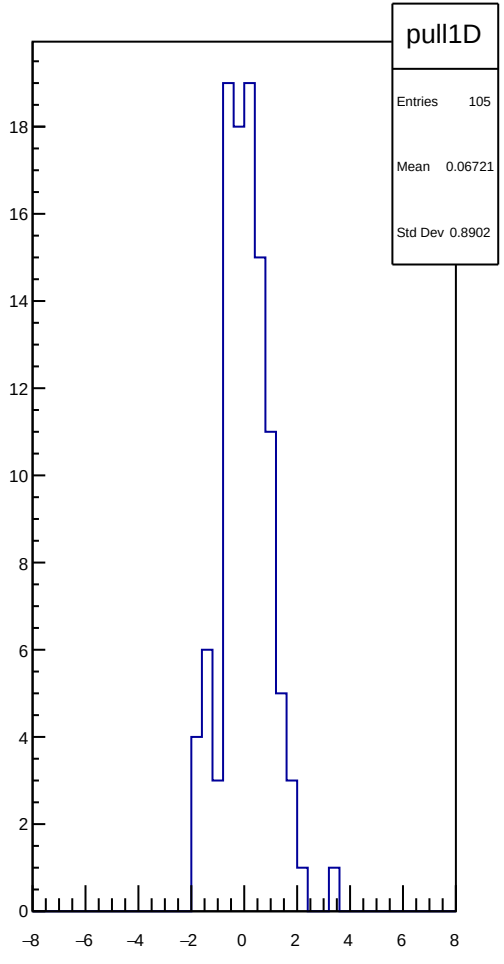


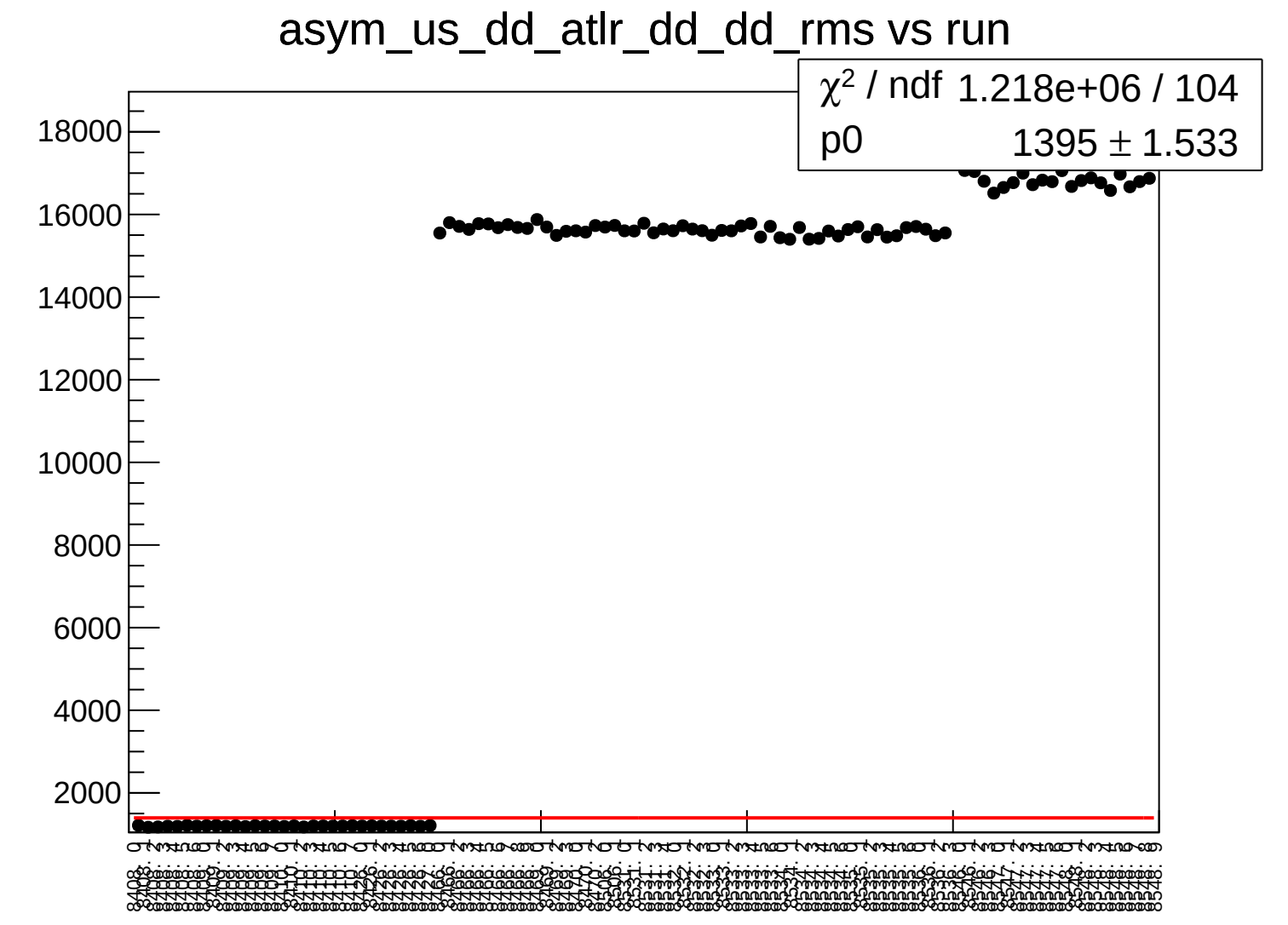


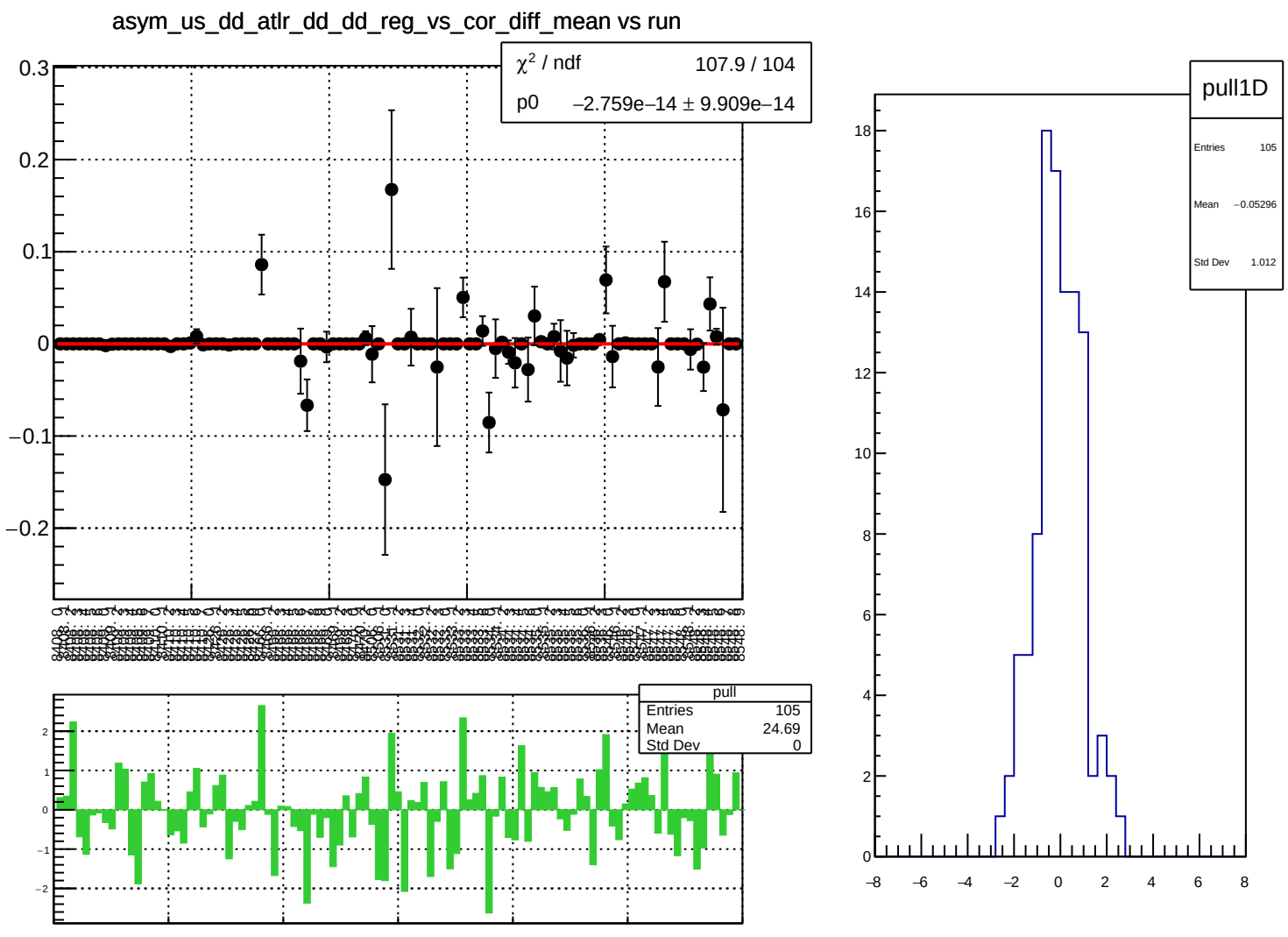


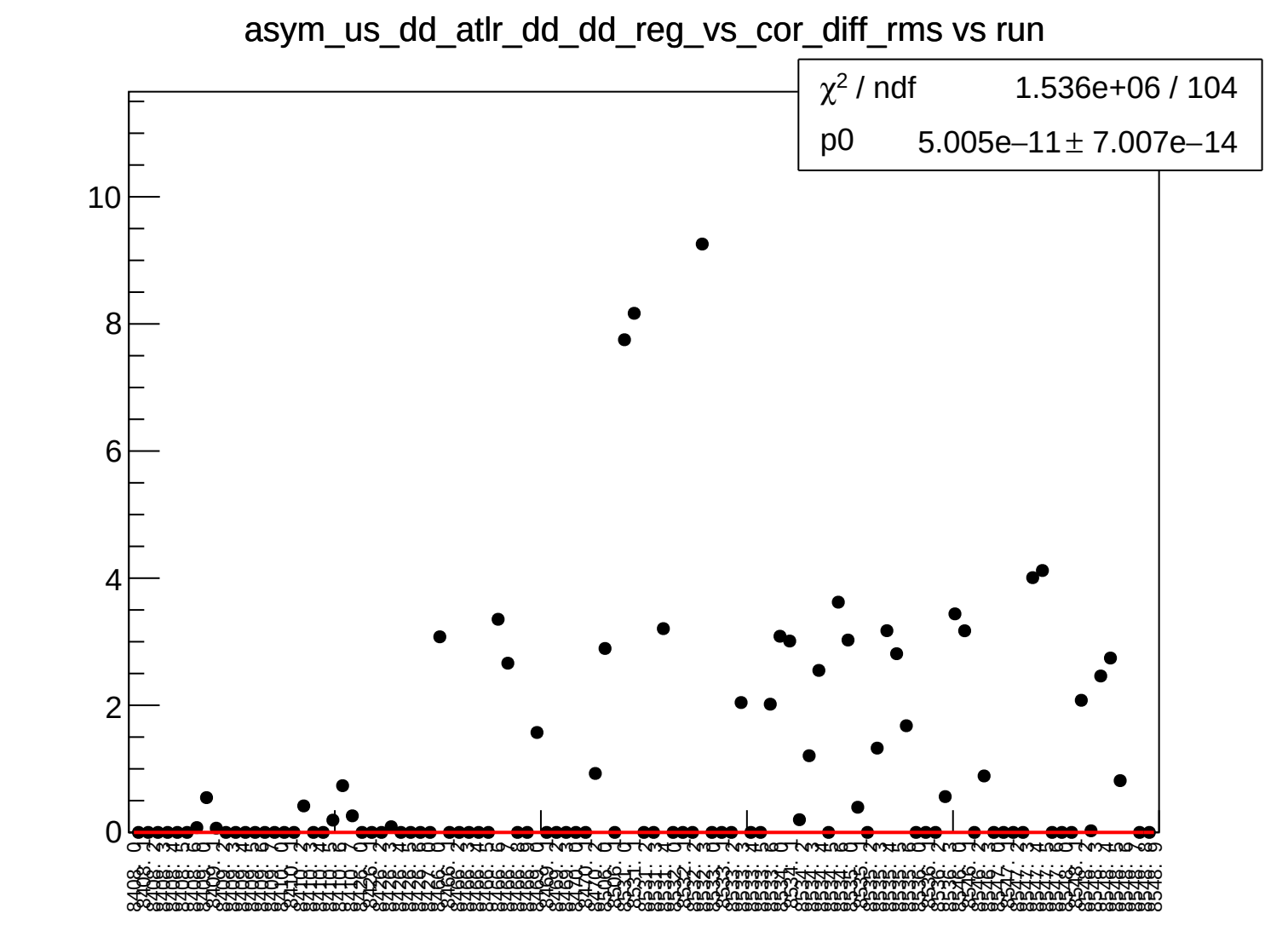

asym_us_dd_atlr_dd_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.848e+05 / 104
p0 626.8 ± 0.4594
1000
900
800
700
600
500
400

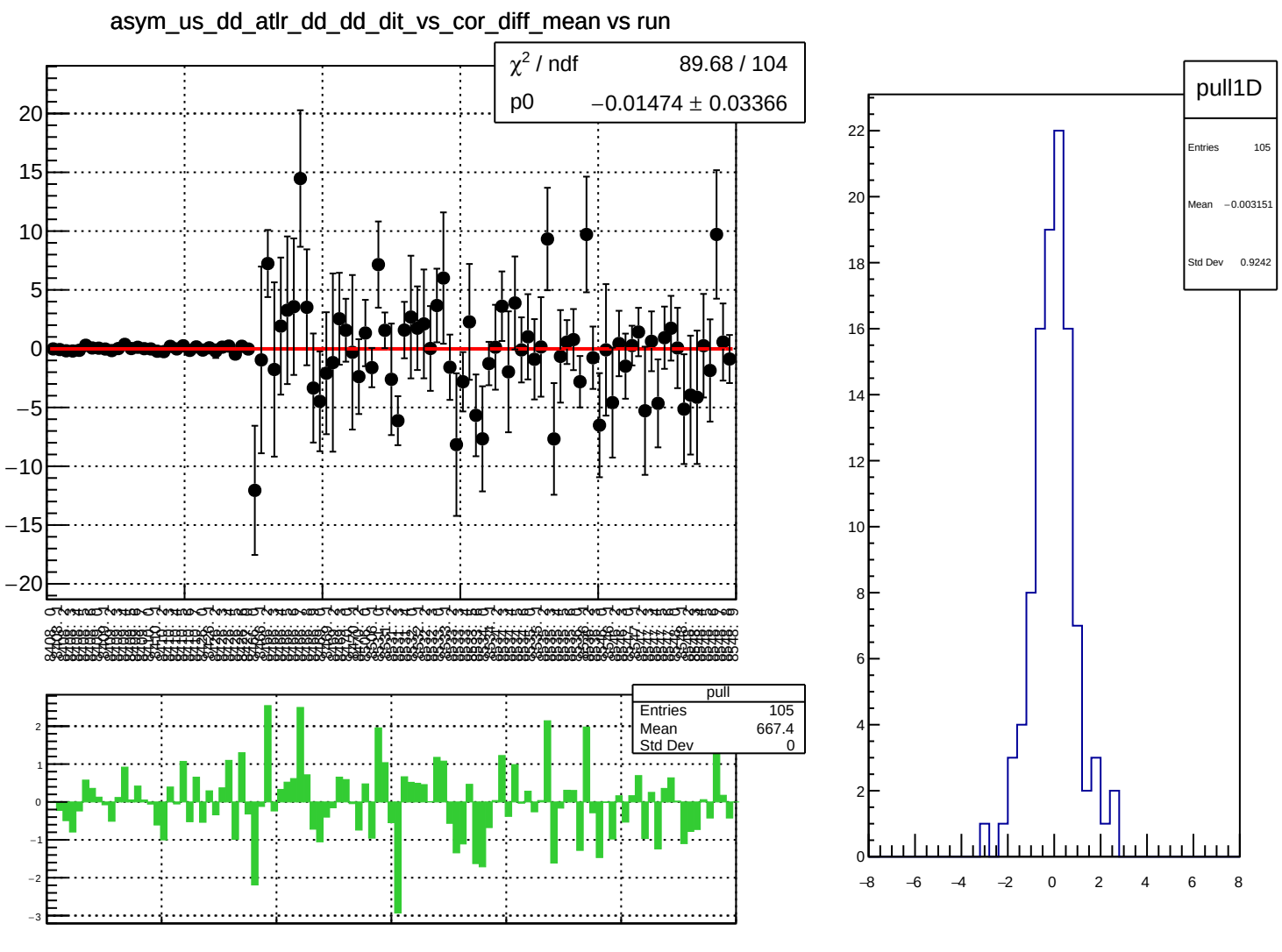

asym_us_dd_atlr_dd_dd_mean vs run
×10^3
χ^2 / ndf 83.69 / 104
p0 1474 ± 2167
800
600
400
200
0
−200
−400
pull
Entries 105
Mean 67.65
Std Dev 14.45
3
2
1
0
−1
−2

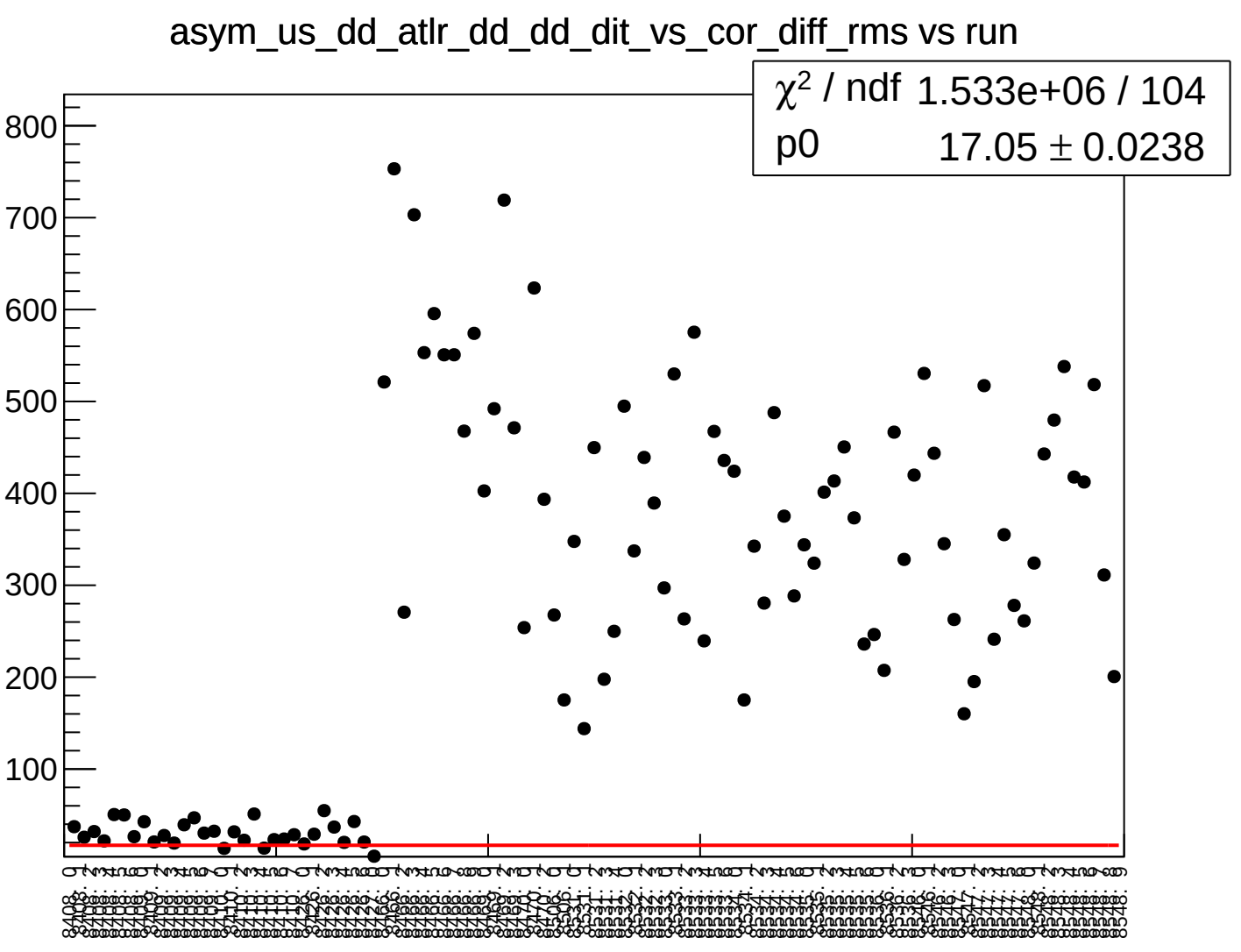

pull1D
Entries 105
Mean 0.06721
Std Dev 0.8902
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

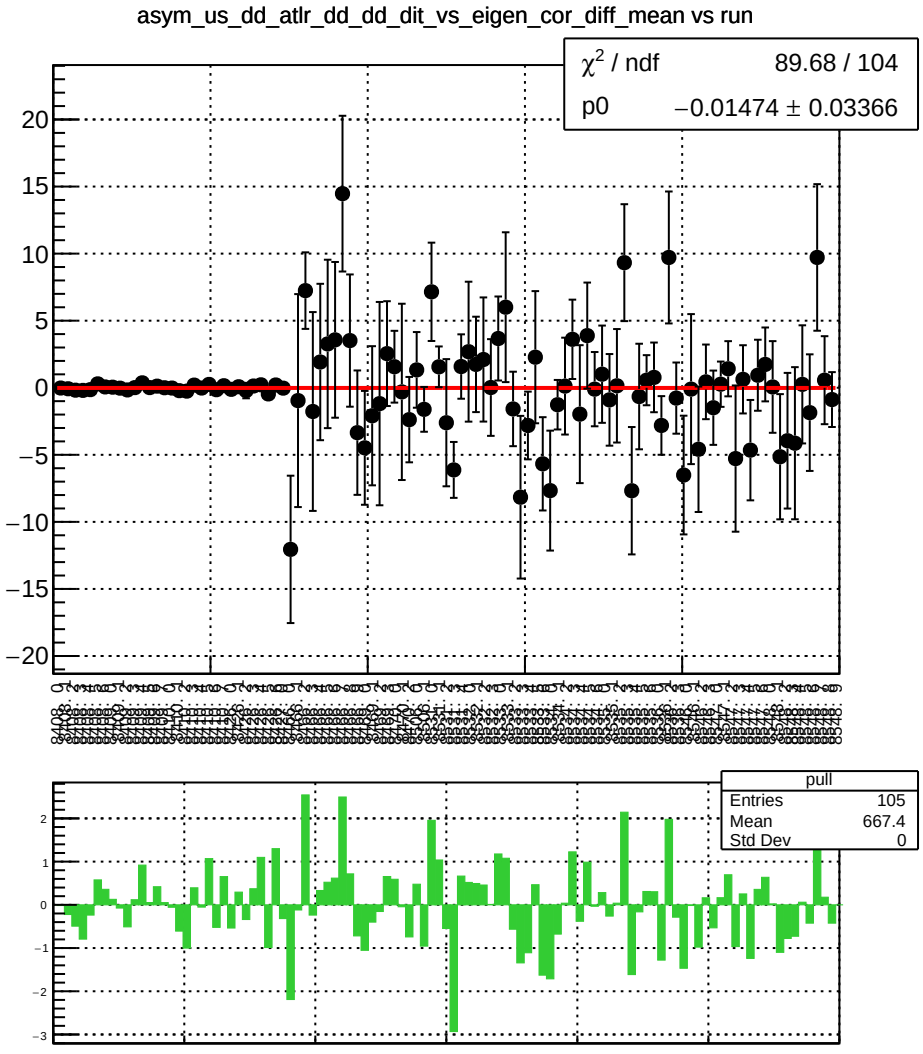

asym_us_dd_atlr_dd_dd_rms vs run
χ² / ndf 1.218e+06 / 104
p0 1395 ± 1.533
18000
16000
14000
12000
10000
8000
6000
4000
2000

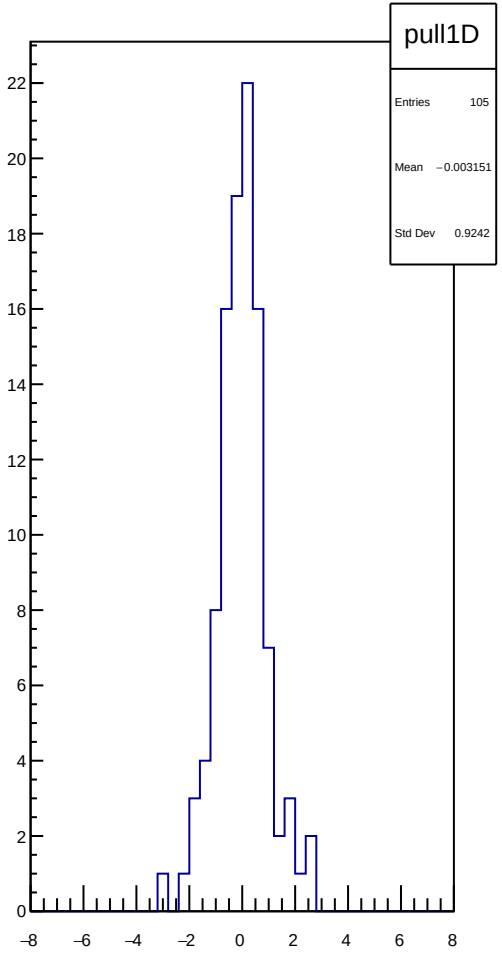

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 107.9 / 104
p0 −2.759e−14 ± 9.909e−14
pull
Entries 105
Mean 24.69
Std Dev 0
pull1D
Entries 105
Mean −0.05296
Std Dev 1.012

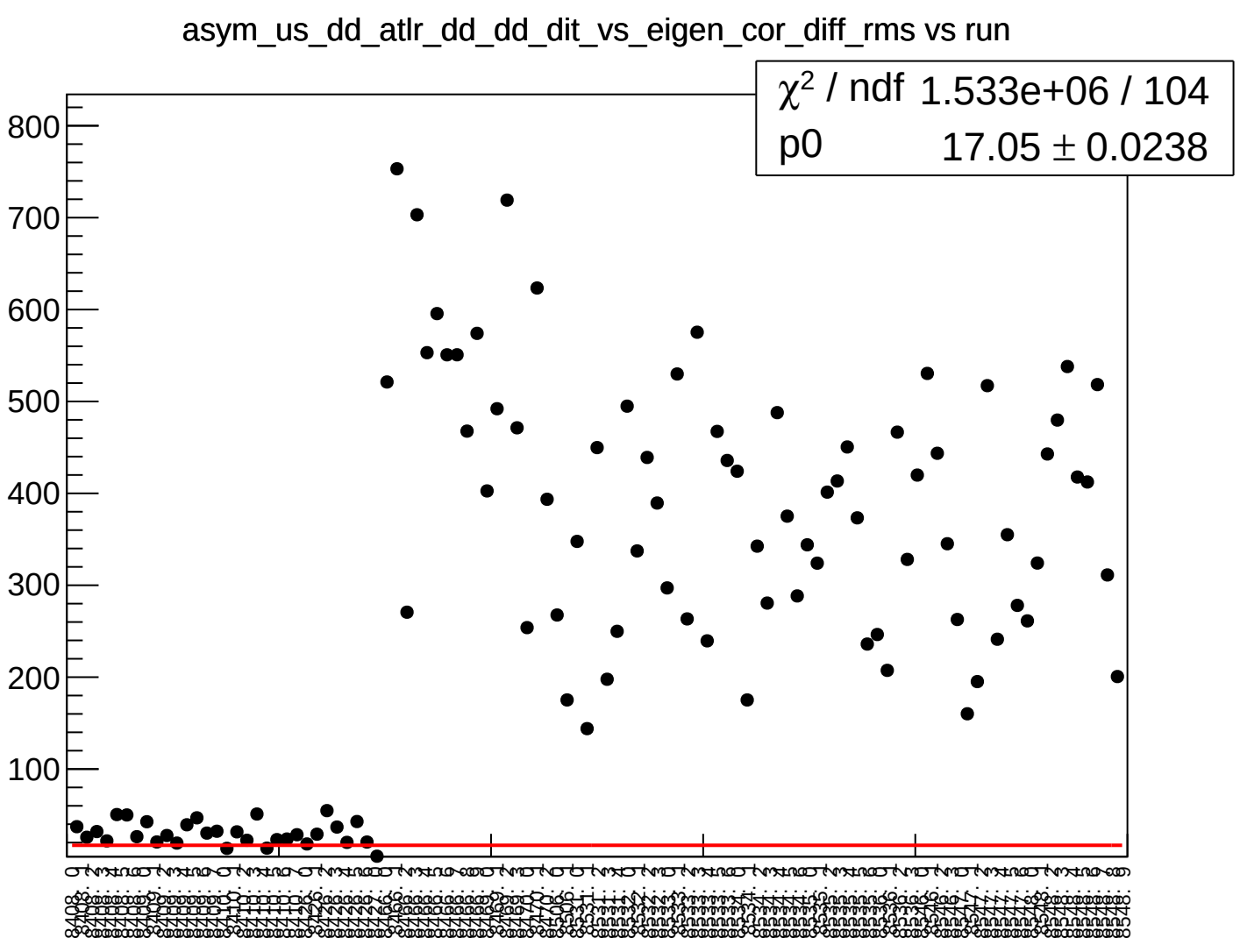

asym_us_dd_atlr_dd_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.536e+06 / 104
p0 5.005e−11 ± 7.007e−14
0
2
4
6
8
10

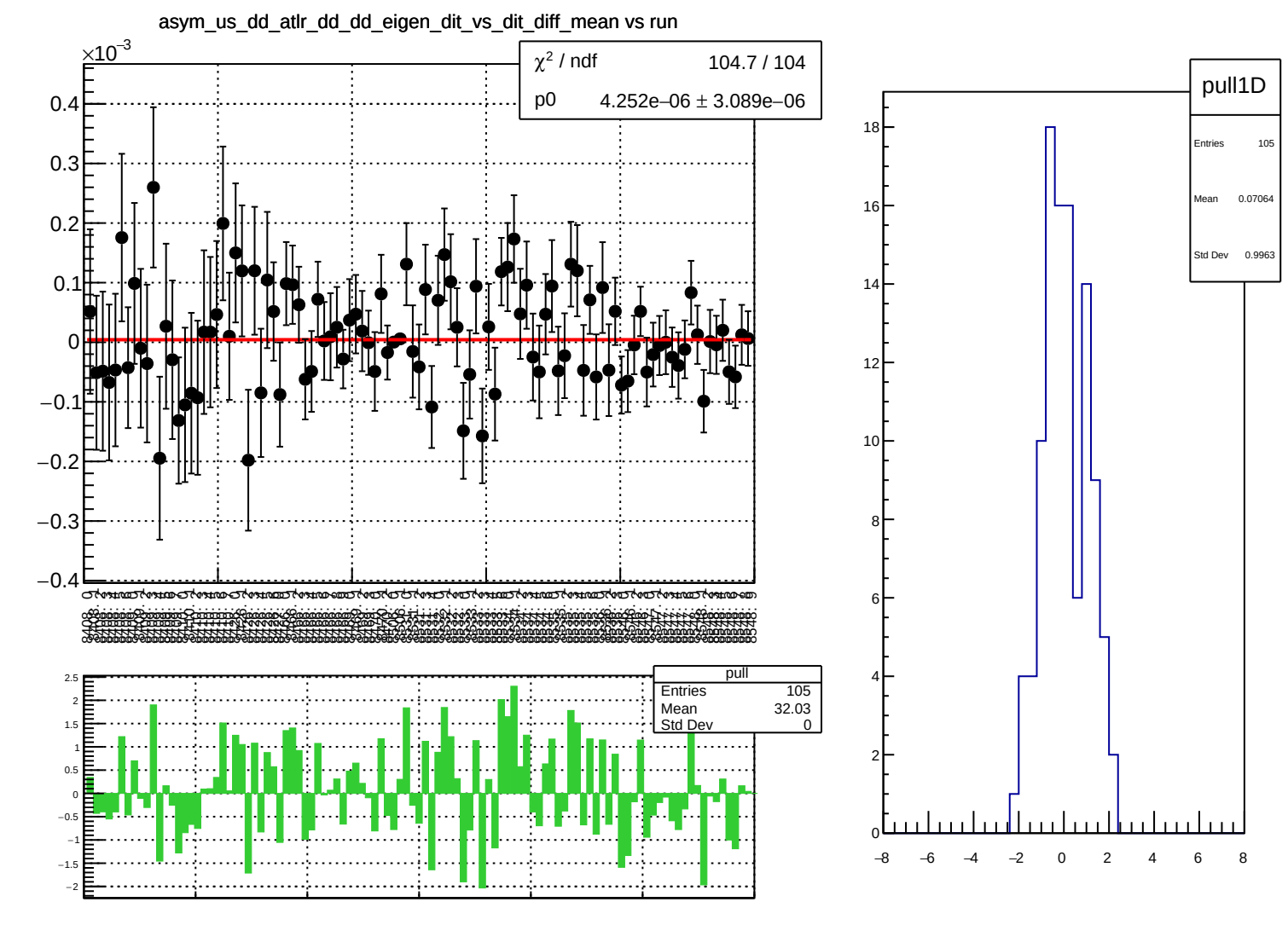

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 89.68 / 104
p0 −0.01474 ± 0.03366
pull
Entries 105
Mean 667.4
Std Dev 0
pull1D
Entries 105
Mean −0.003151
Std Dev 0.9242

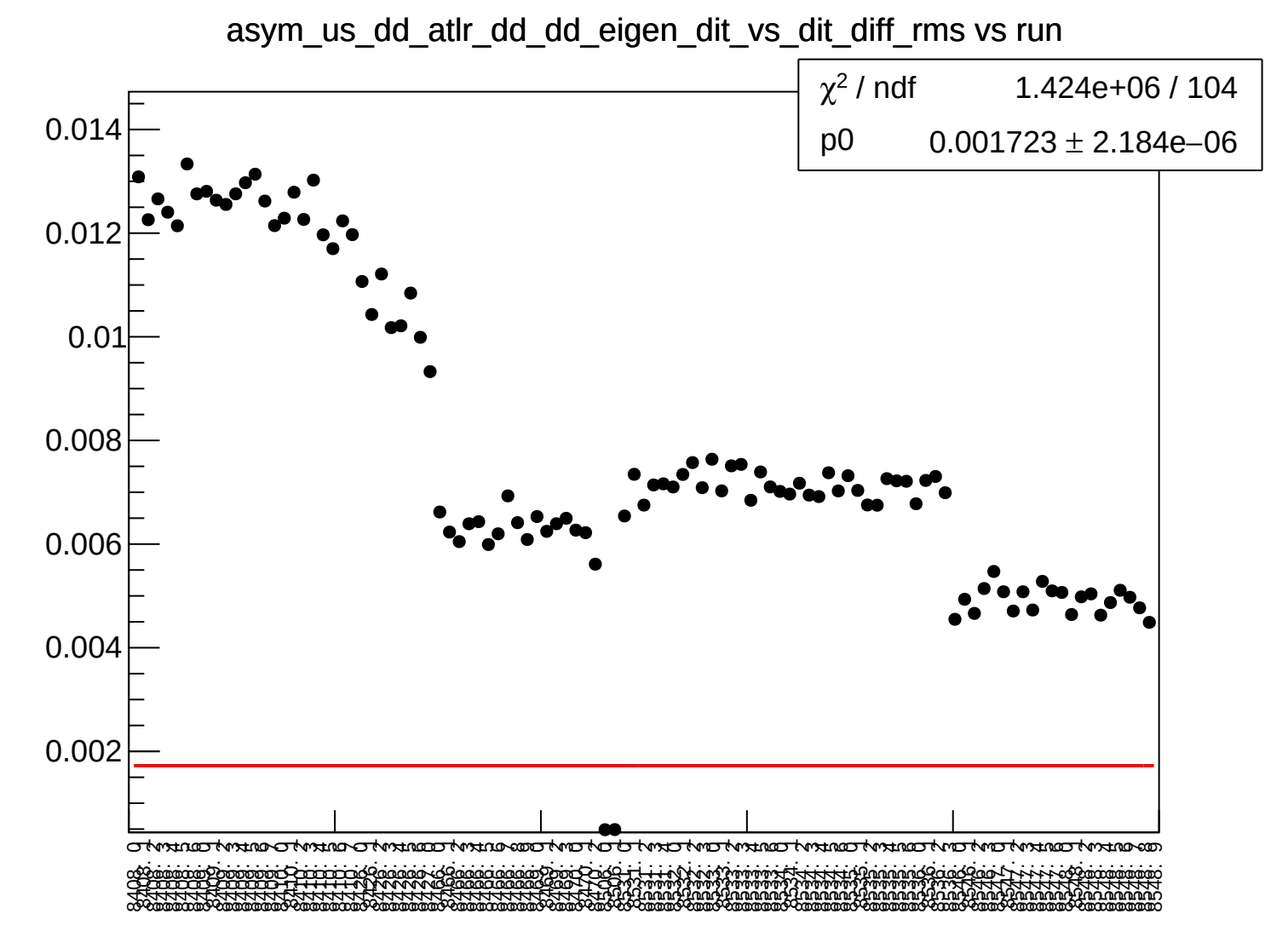

asym_us_dd_atlr_dd_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.533e+06 / 104
p0 17.05 ± 0.0238
800
700
600
500
400
300
200
100

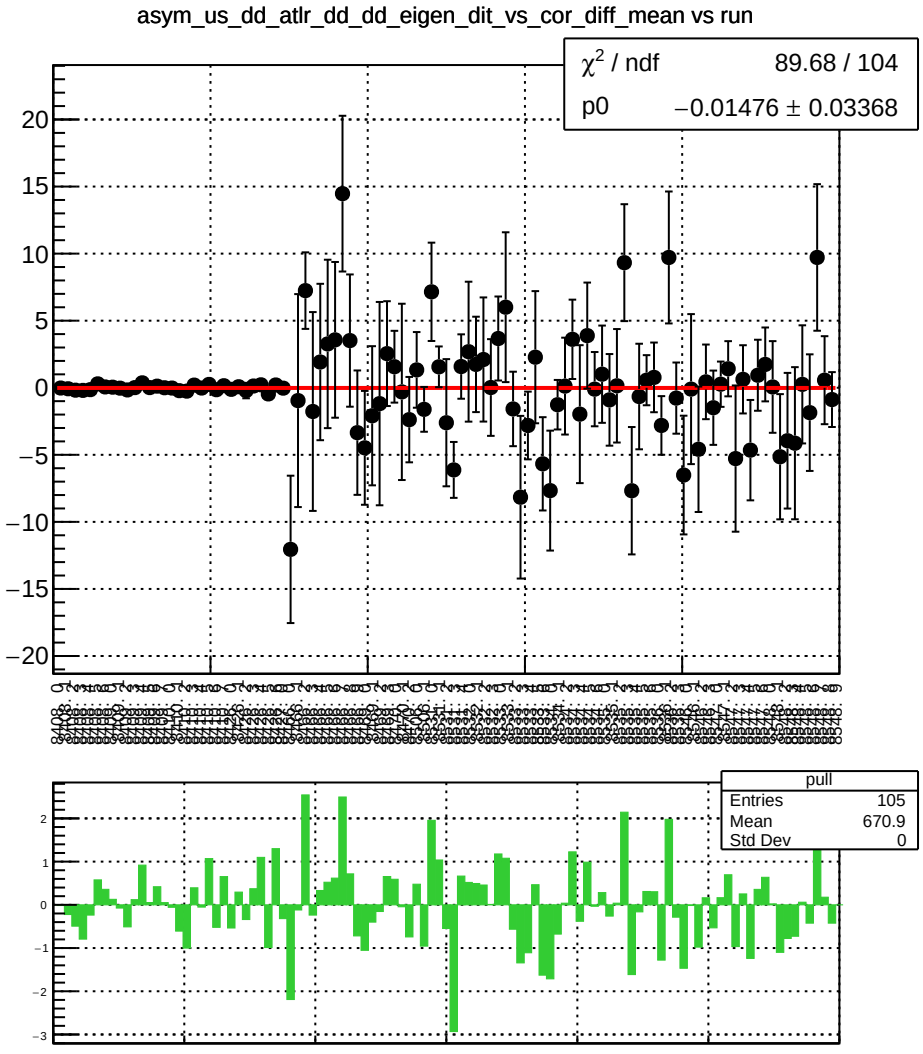

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.68 / 104
p0 −0.01474 ± 0.03366
pull
Entries 105
Mean 667.4
Std Dev 0

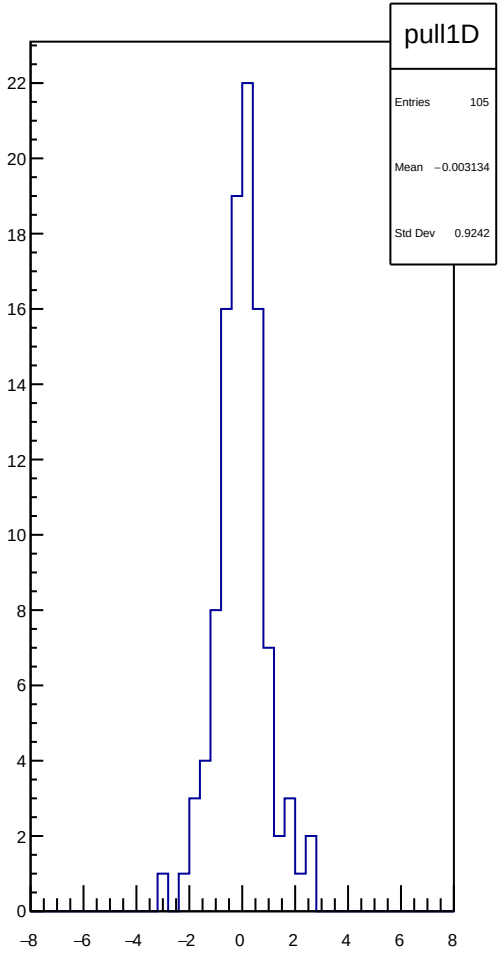

pull1D
Entries 105
Mean −0.003151
Std Dev 0.9242

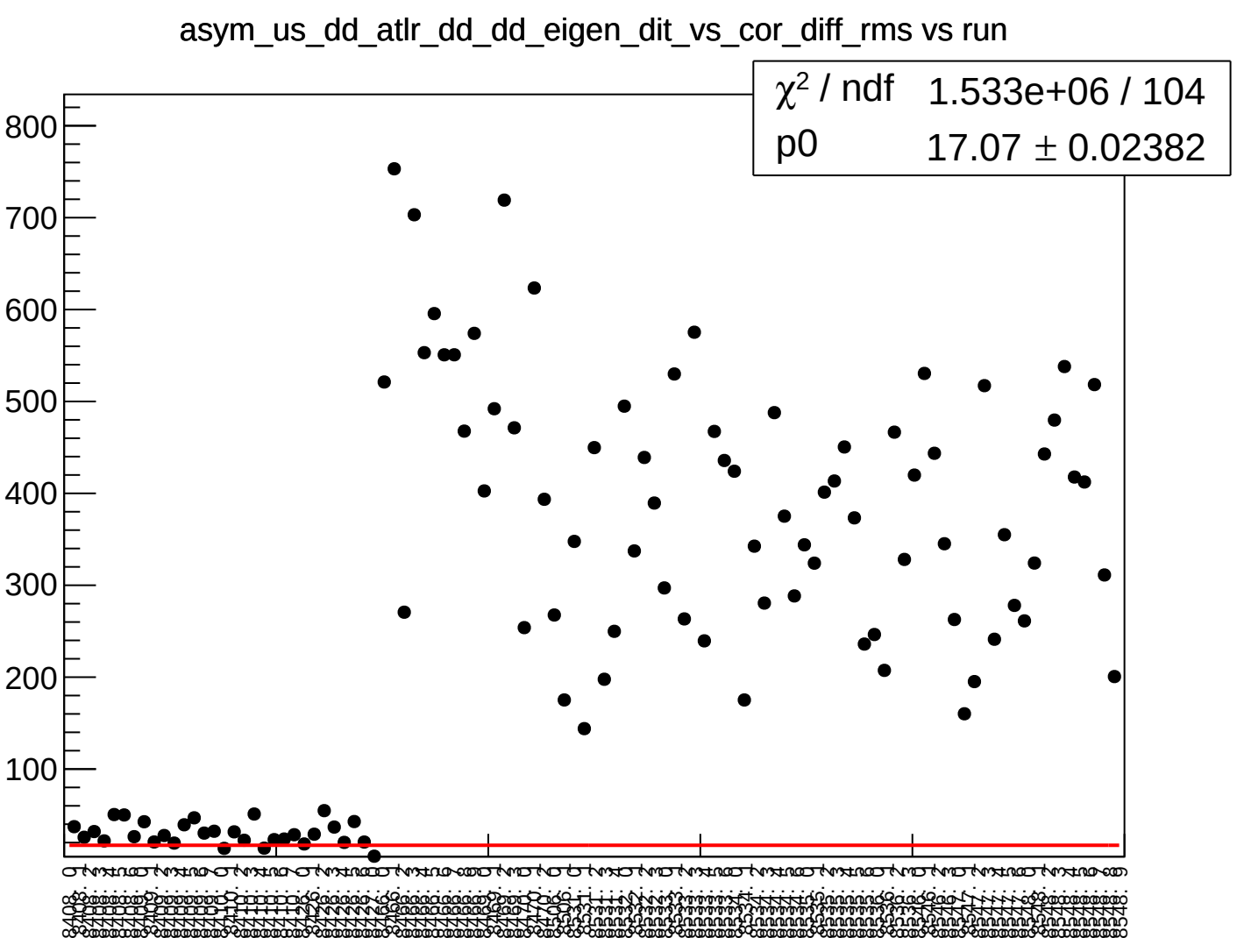

asym_us_dd_atlr_dd_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.533e+06 / 104
p0 17.05 ± 0.0238
800
700
600
500
400
300
200
100

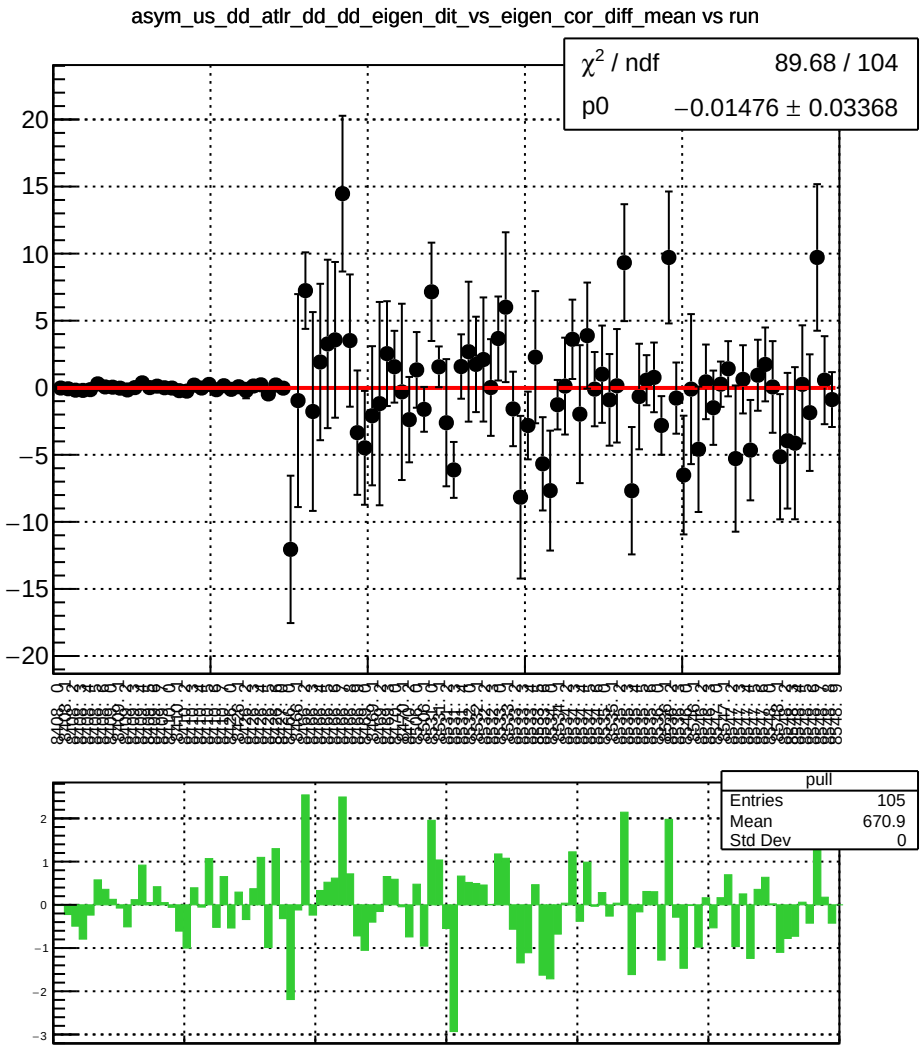

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 104.7 / 104
p0 4.252e−06 ± 3.089e−06
pull
Entries 105
Mean 32.03
Std Dev 0
pull1D
Entries 105
Mean 0.07064
Std Dev 0.9963

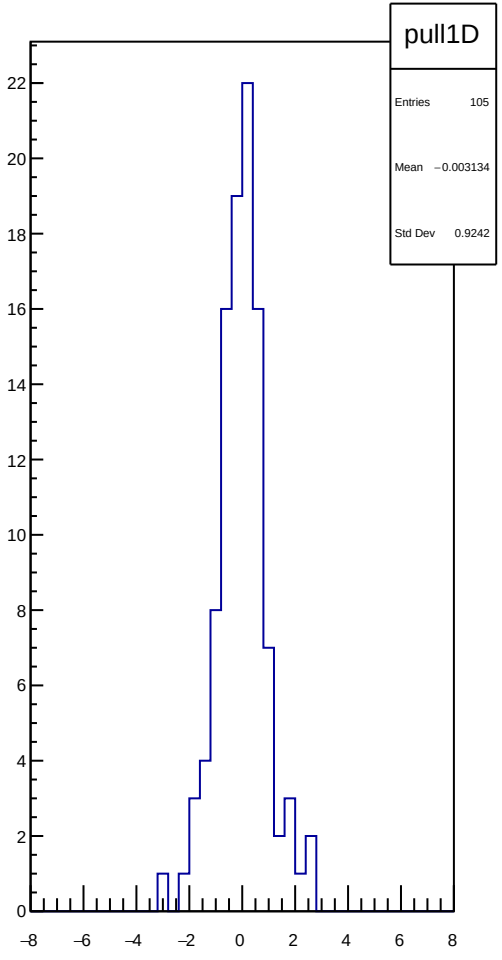

asym_us_dd_atlr_dd_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.424e+06 / 104
p0 0.001723 ± 2.184e−06
0.014
0.012
0.01
0.008
0.006
0.004
0.002

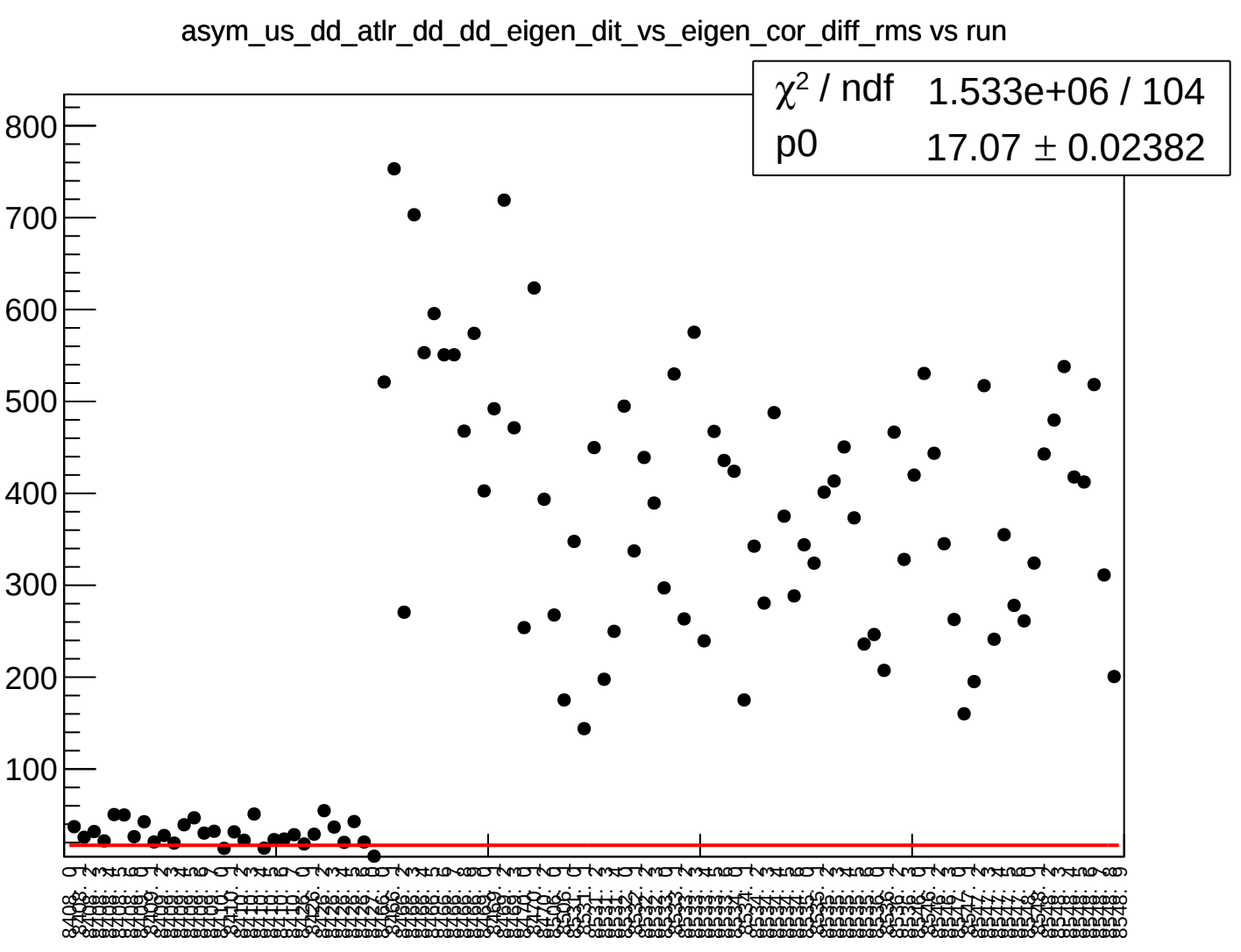

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 89.68 / 104
p0 −0.01476 ± 0.03368
pull
Entries 105
Mean 670.9
Std Dev 0

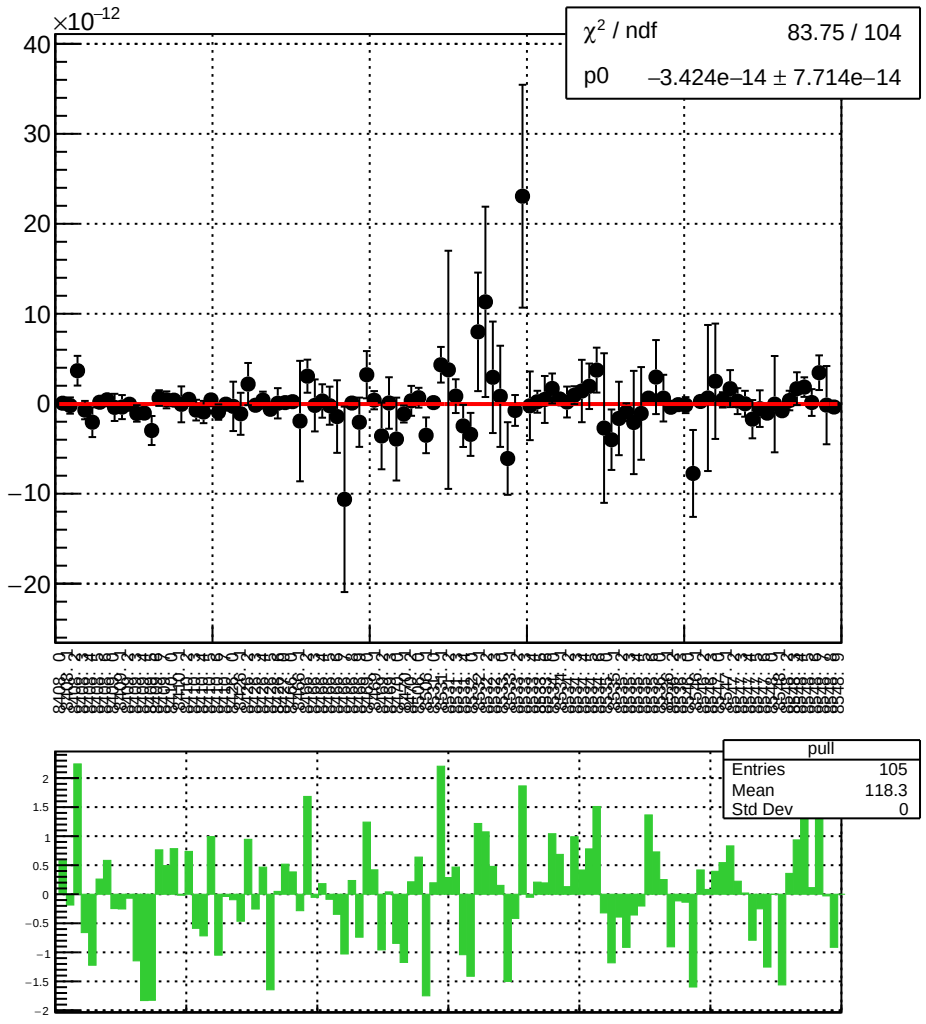

pull1D
Entries 105
Mean −0.003134
Std Dev 0.9242

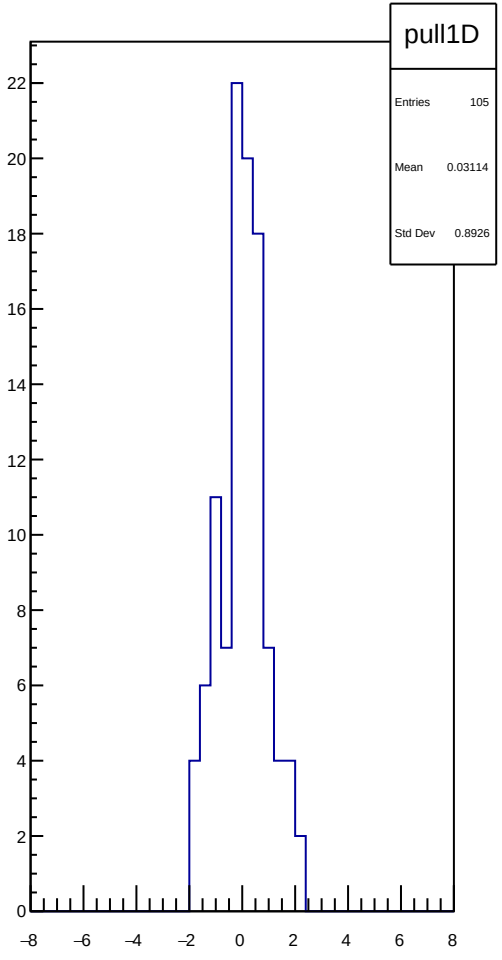

asym_us_dd_atlr_dd_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.533e+06 / 104
p0 17.07 ± 0.02382
800
700
600
500
400
300
200
100

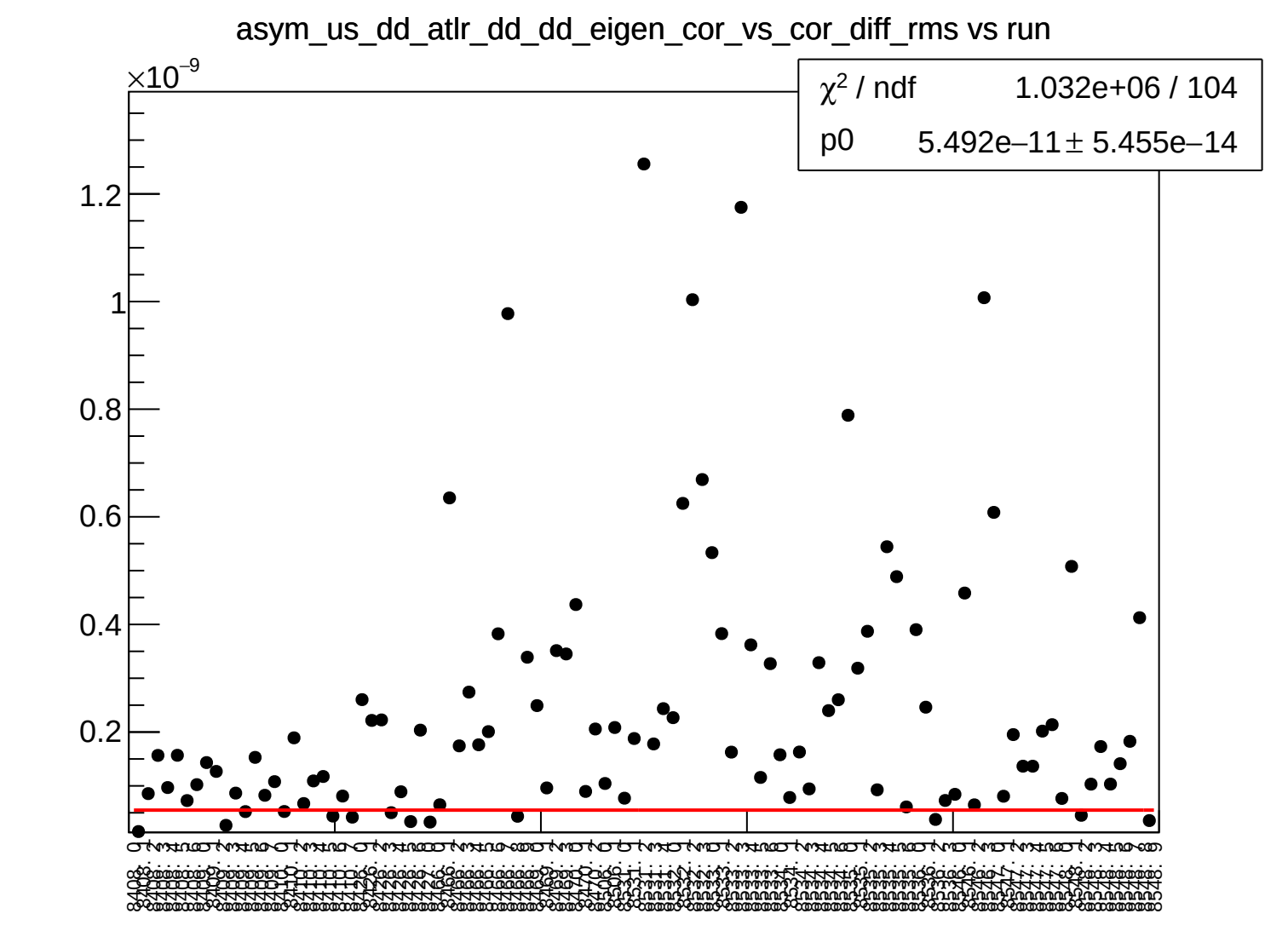

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 89.68 / 104
p0 −0.01476 ± 0.03368
pull
Entries 105
Mean 670.9
Std Dev 0

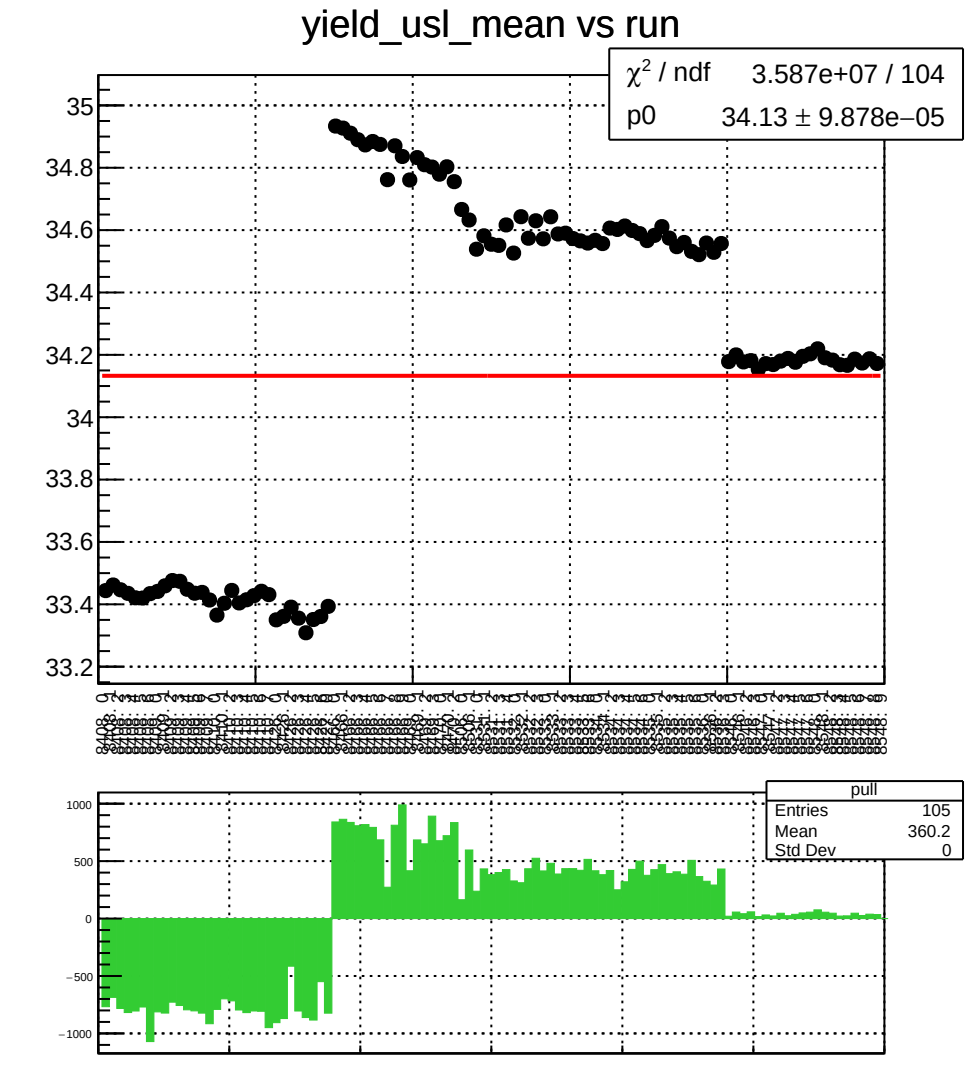

pull1D
Entries 105
Mean −0.003134
Std Dev 0.9242

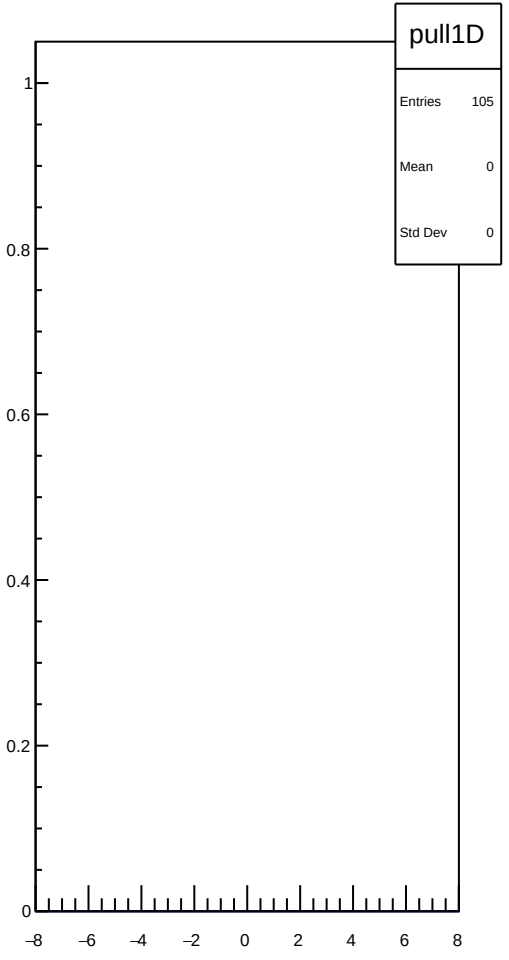

asym_us_dd_atlr_dd_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.533e+06 / 104
p0 17.07 ± 0.02382
800
700
600
500
400
300
200
100

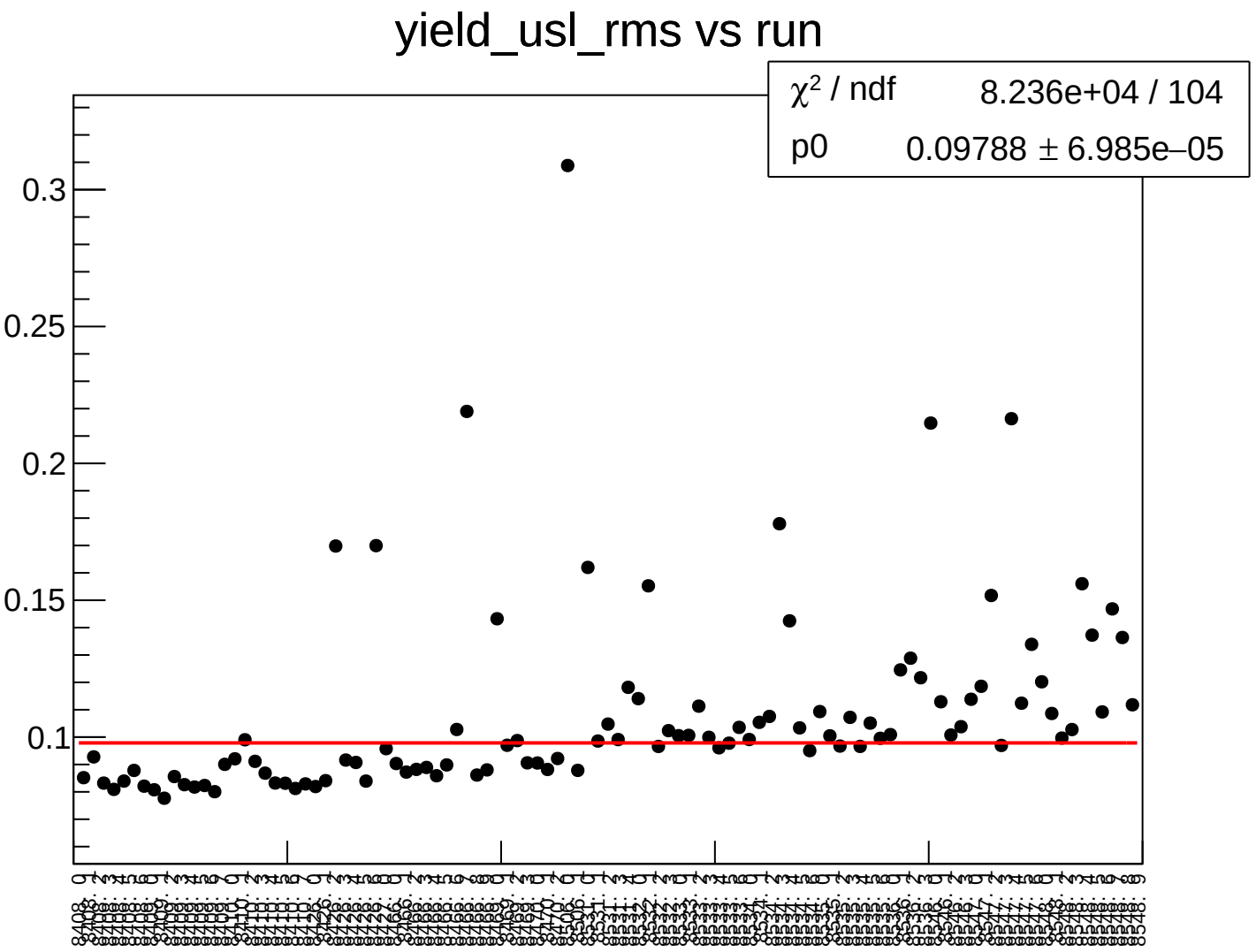

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.75 / 104
p0 −3.424e−14 ± 7.714e−14
pull
Entries 105
Mean 118.3
Std Dev 0

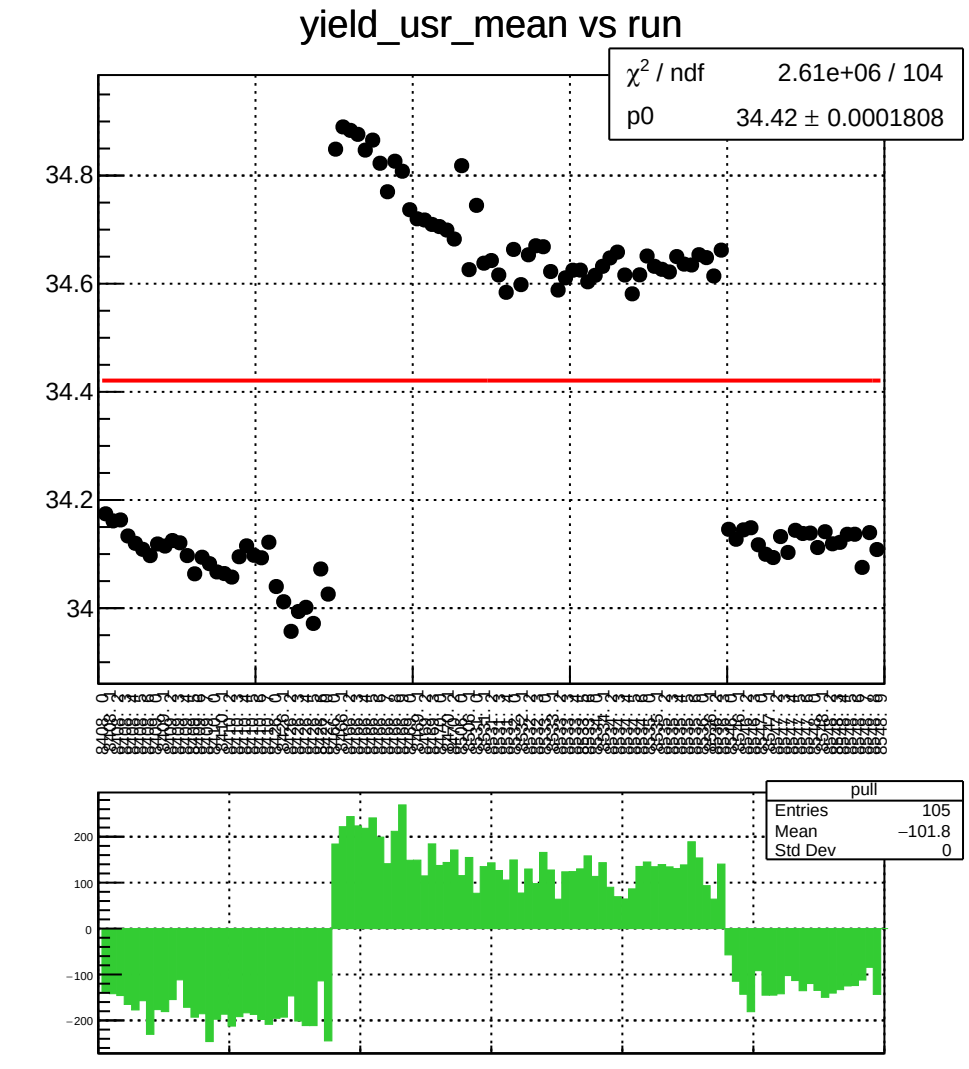

pull1D
Entries 105
Mean 0.03114
Std Dev 0.8926

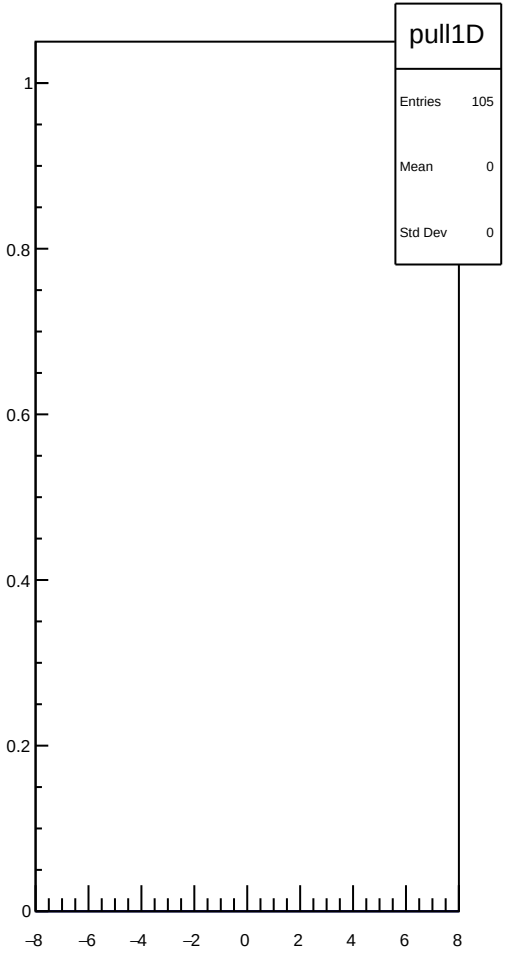

asym_us_dd_atlr_dd_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.032e+06 / 104
p0 5.492e−11 ± 5.455e−14
1.2
1
0.8
0.6
0.4
0.2

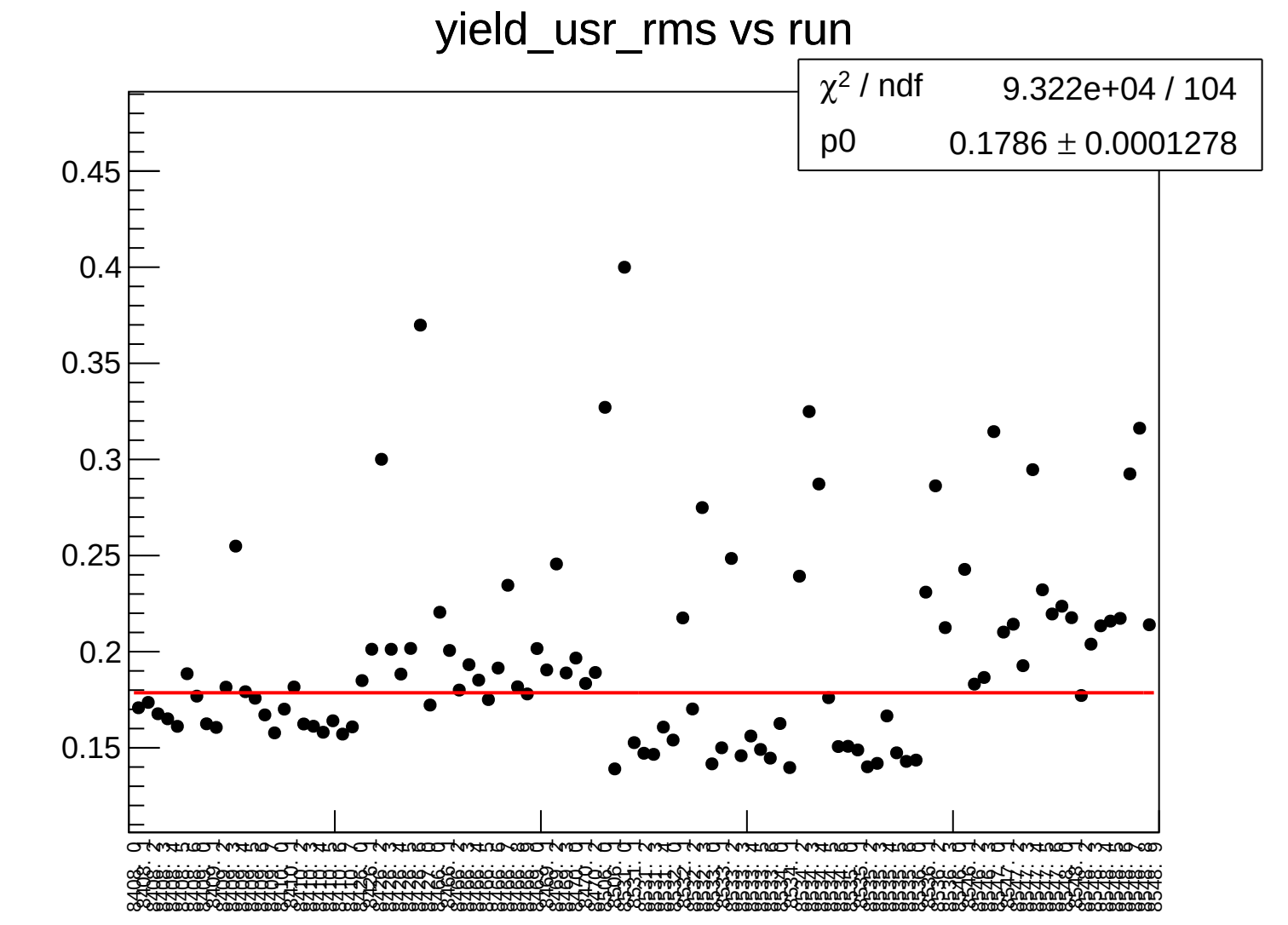

yield_usl_mean vs run
χ² / ndf 3.587e+07 / 104
p0 34.13 ± 9.878e−05
35
34.8
34.6
34.4
34.2
34
33.8
33.6
33.4
33.2
pull
Entries 105
Mean 360.2
Std Dev 0
1000
500
0
−500
−1000

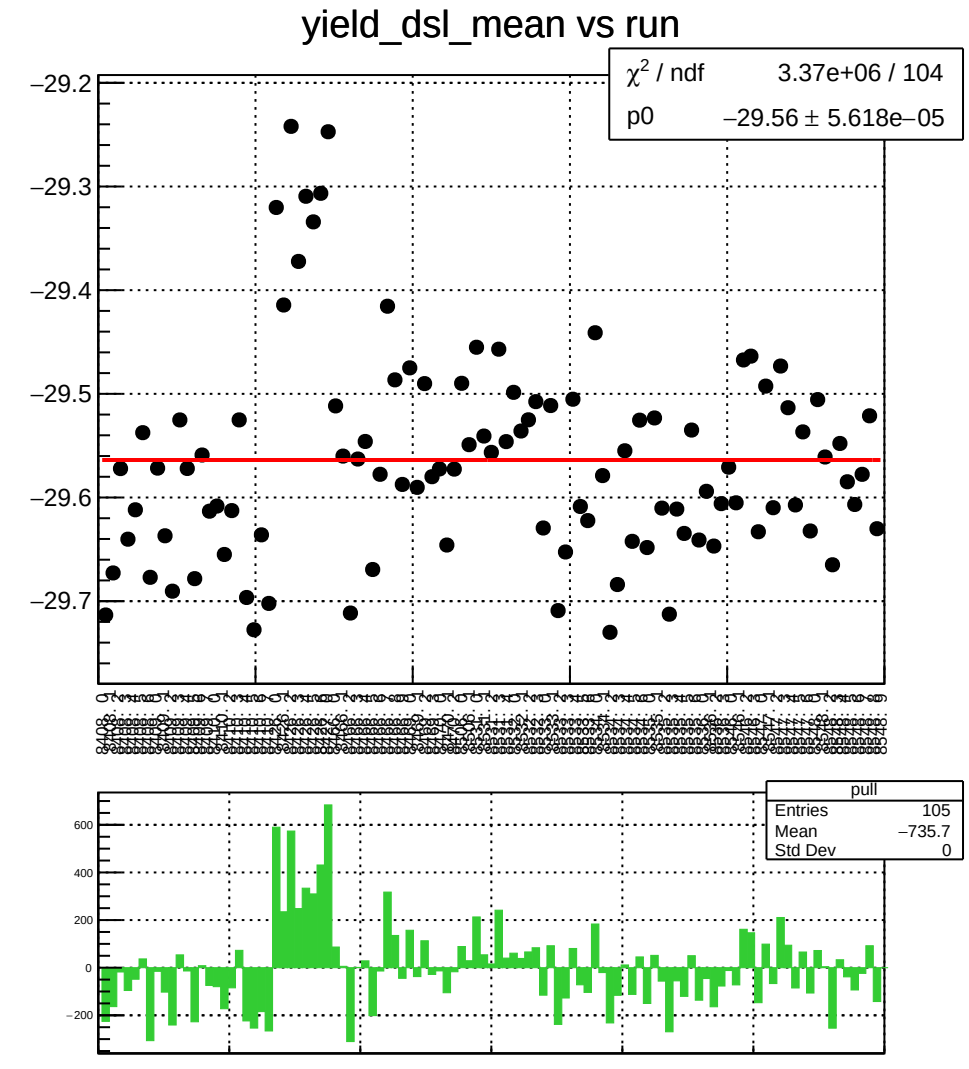

pull1D
Entries 105
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

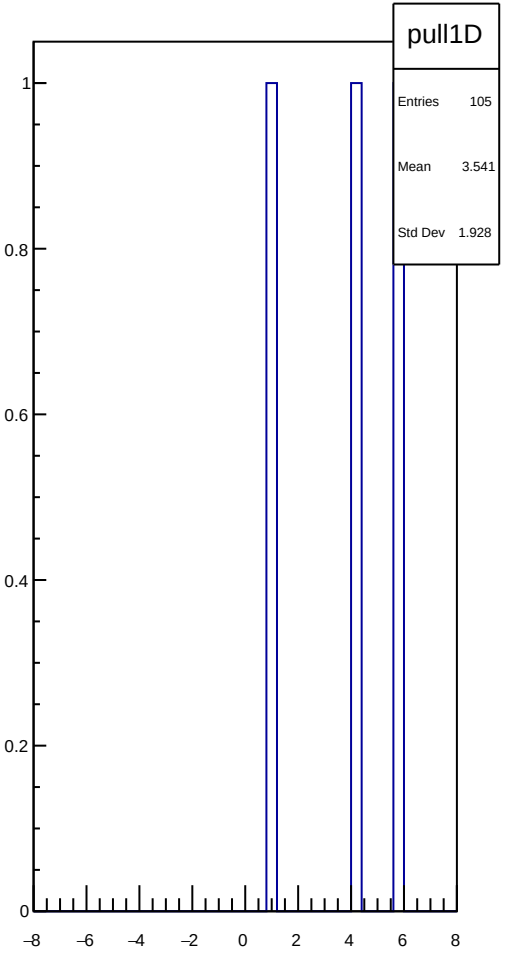

yield_usl_rms vs run
χ² / ndf 8.236e+04 / 104
p0 0.09788 ± 6.985e−05
0.3
0.25
0.2
0.15
0.1

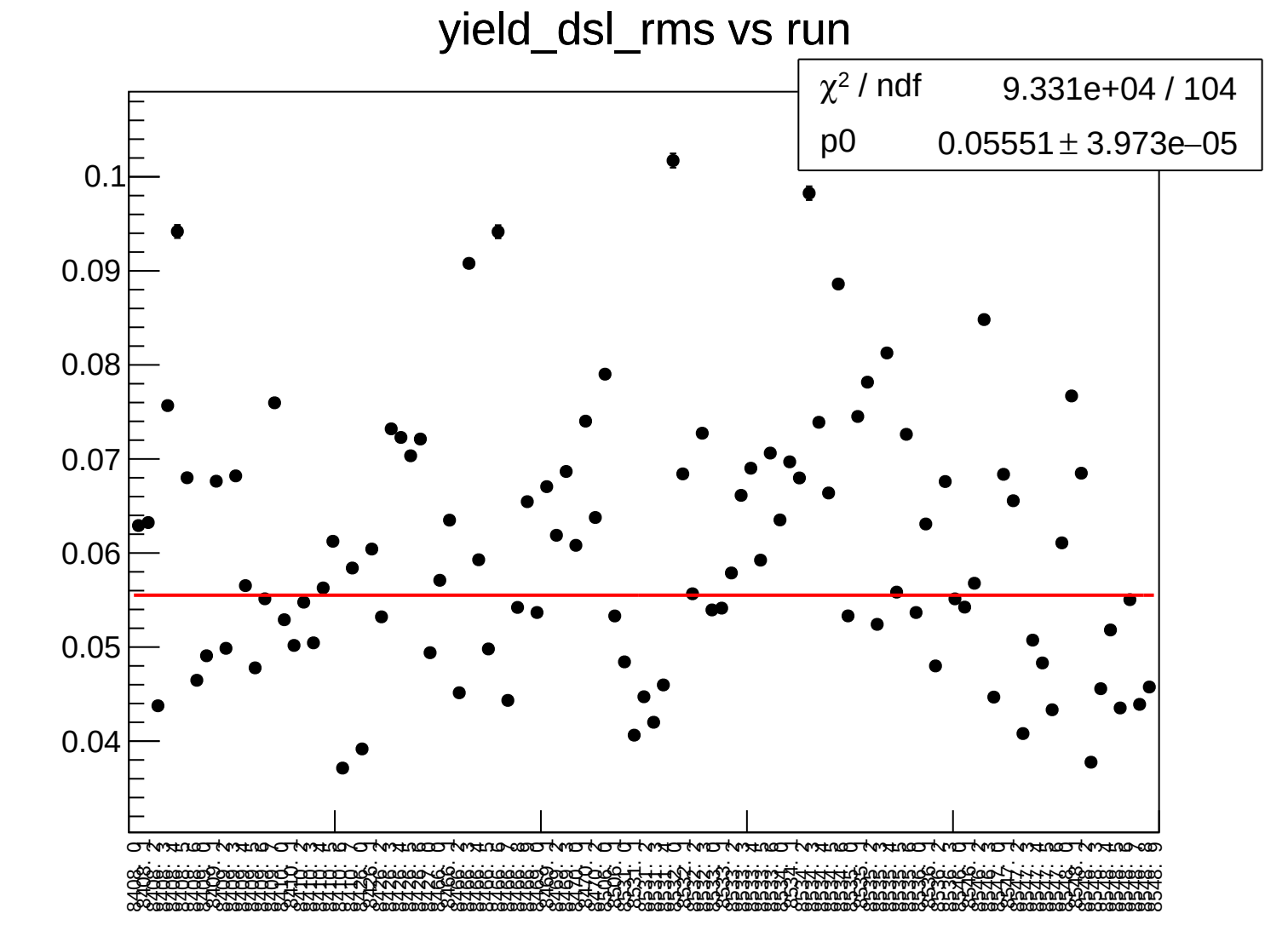

yield_usr_mean vs run
χ² / ndf 2.61e+06 / 104
p0 34.42 ± 0.0001808
34.8
34.6
34.4
34.2
34
pull
Entries 105
Mean −101.8
Std Dev 0
200
100
0
−100
−200

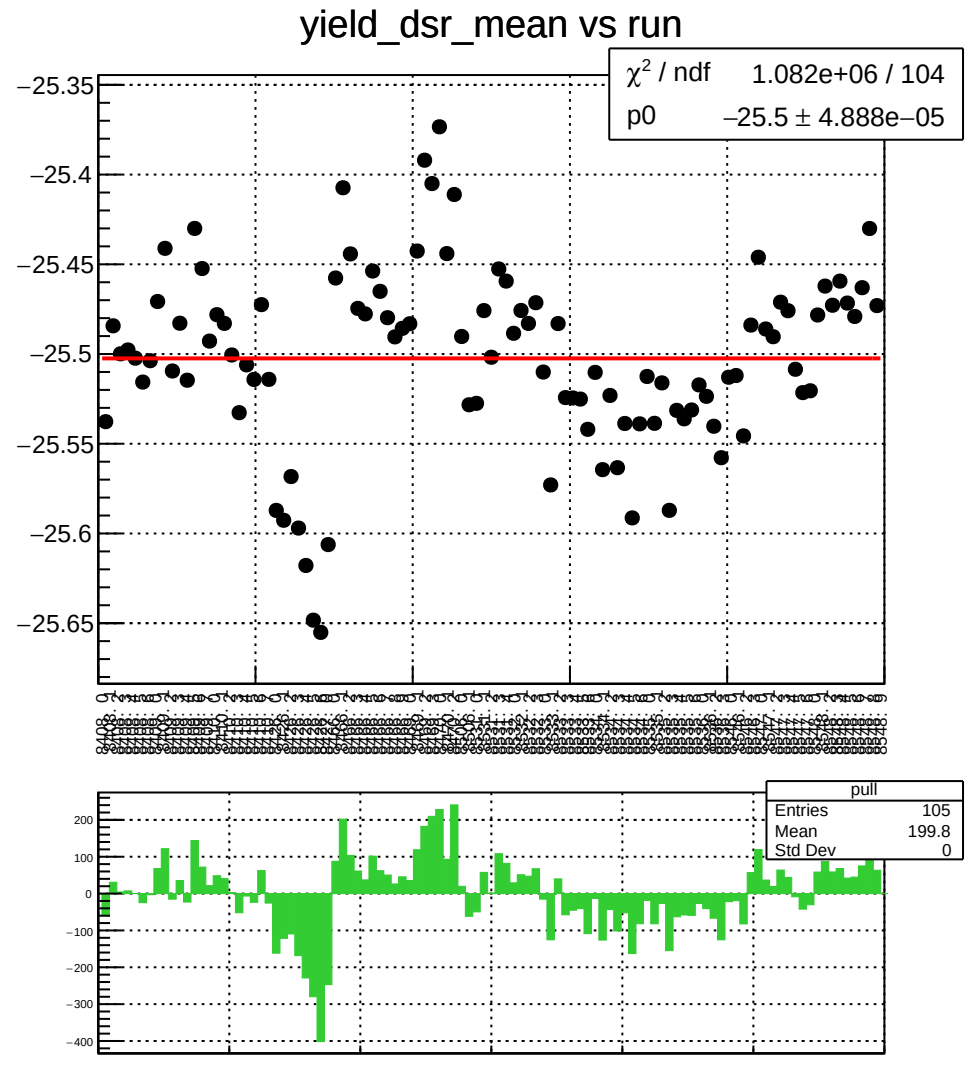

pull1D
Entries 105
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

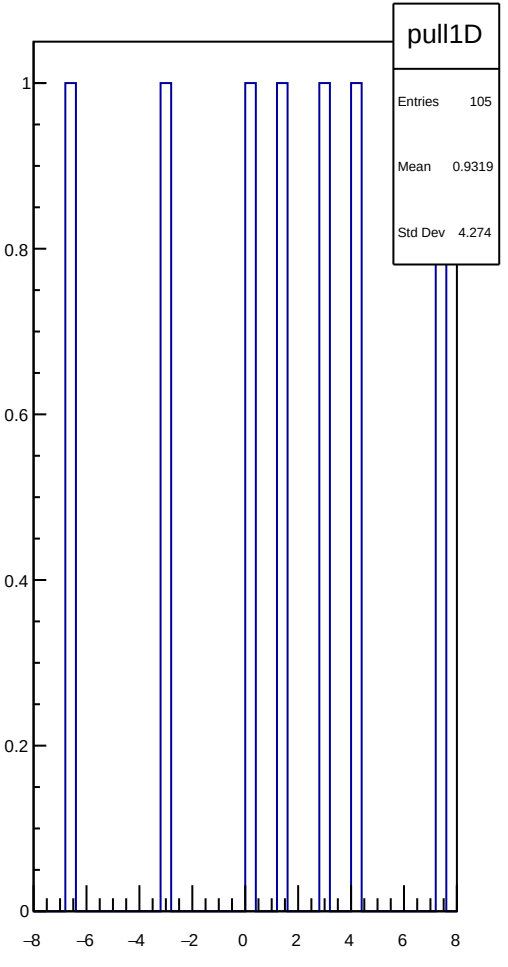

yield_usr_rms vs run
χ² / ndf 9.322e+04 / 104
p0 0.1786 ± 0.0001278
0.45
0.4
0.35
0.3
0.25
0.2
0.15

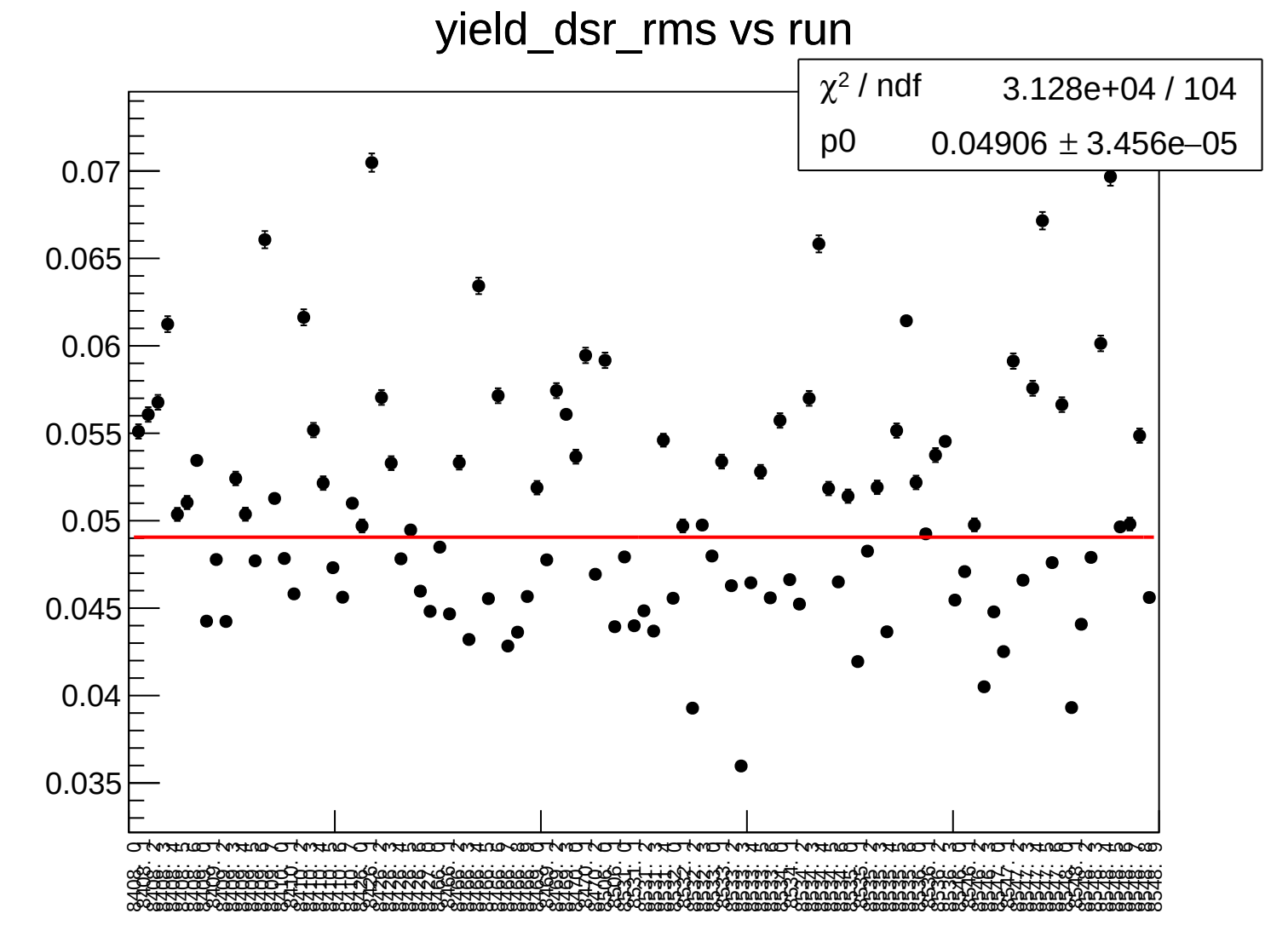

yield_dsl_mean vs run
χ² / ndf 3.37e+06 / 104
p0 −29.56 ± 5.618e−05
−29.2
−29.3
−29.4
−29.5
−29.6
−29.7
pull
Entries 105
Mean −735.7
Std Dev 0
600
400
200
0
−200

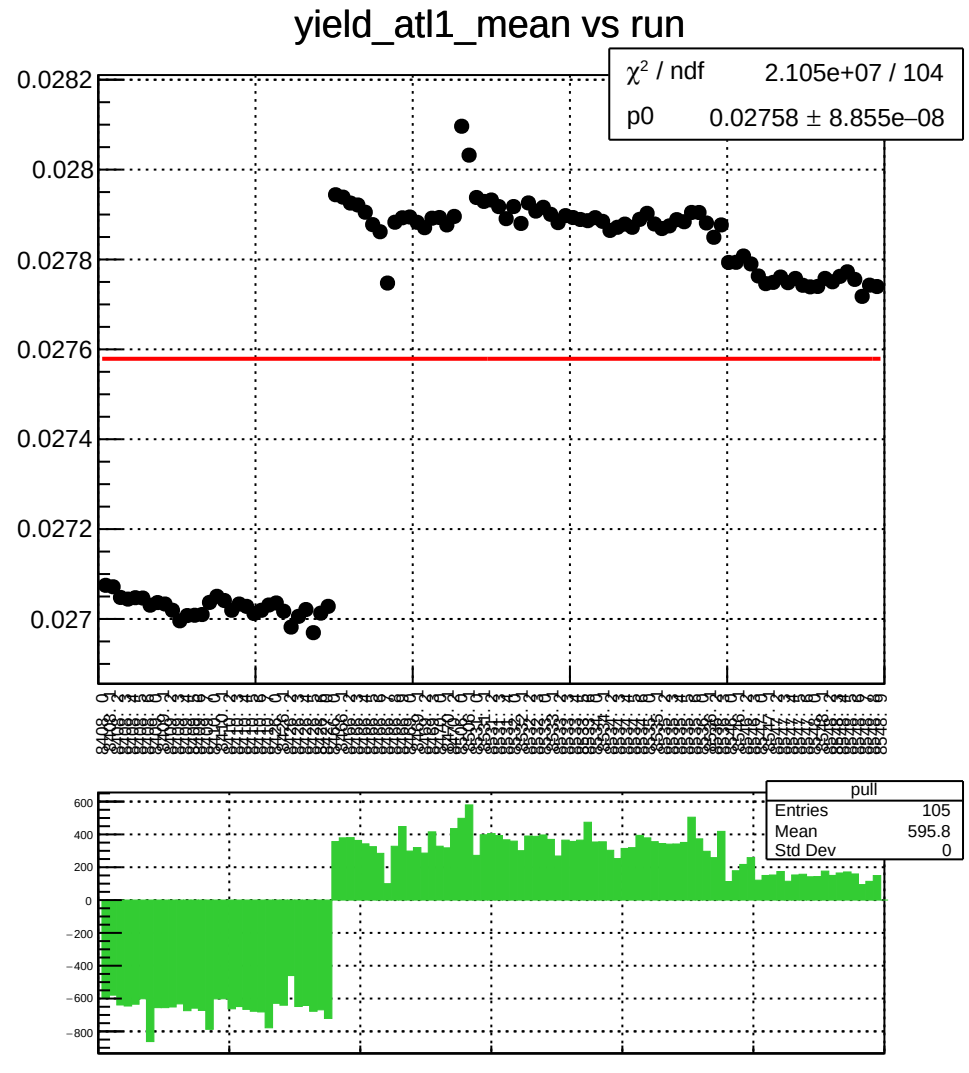

pull1D
Entries 105
Mean 3.541
Std Dev 1.928
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

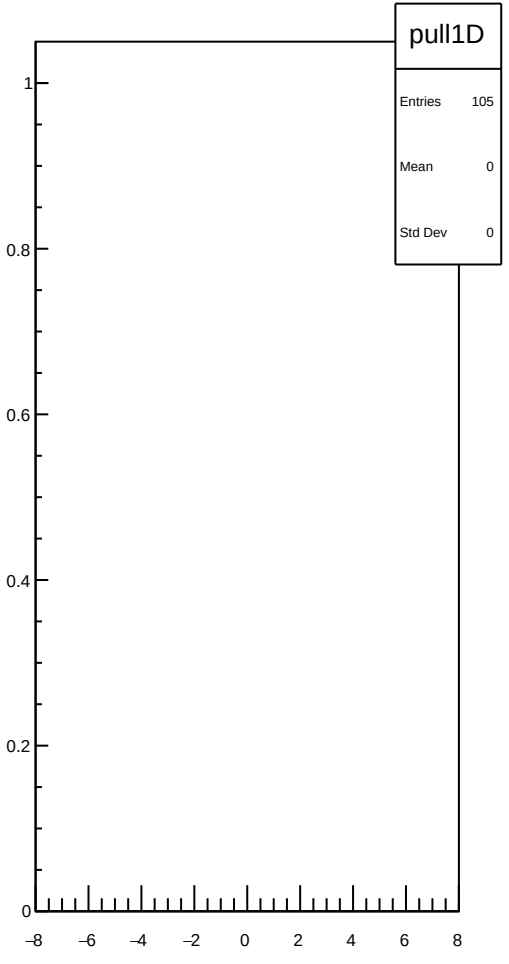

yield_dsl_rms vs run
χ² / ndf 9.331e+04 / 104
p0 0.05551 ± 3.973e−05
0.1
0.09
0.08
0.07
0.06
0.05
0.04

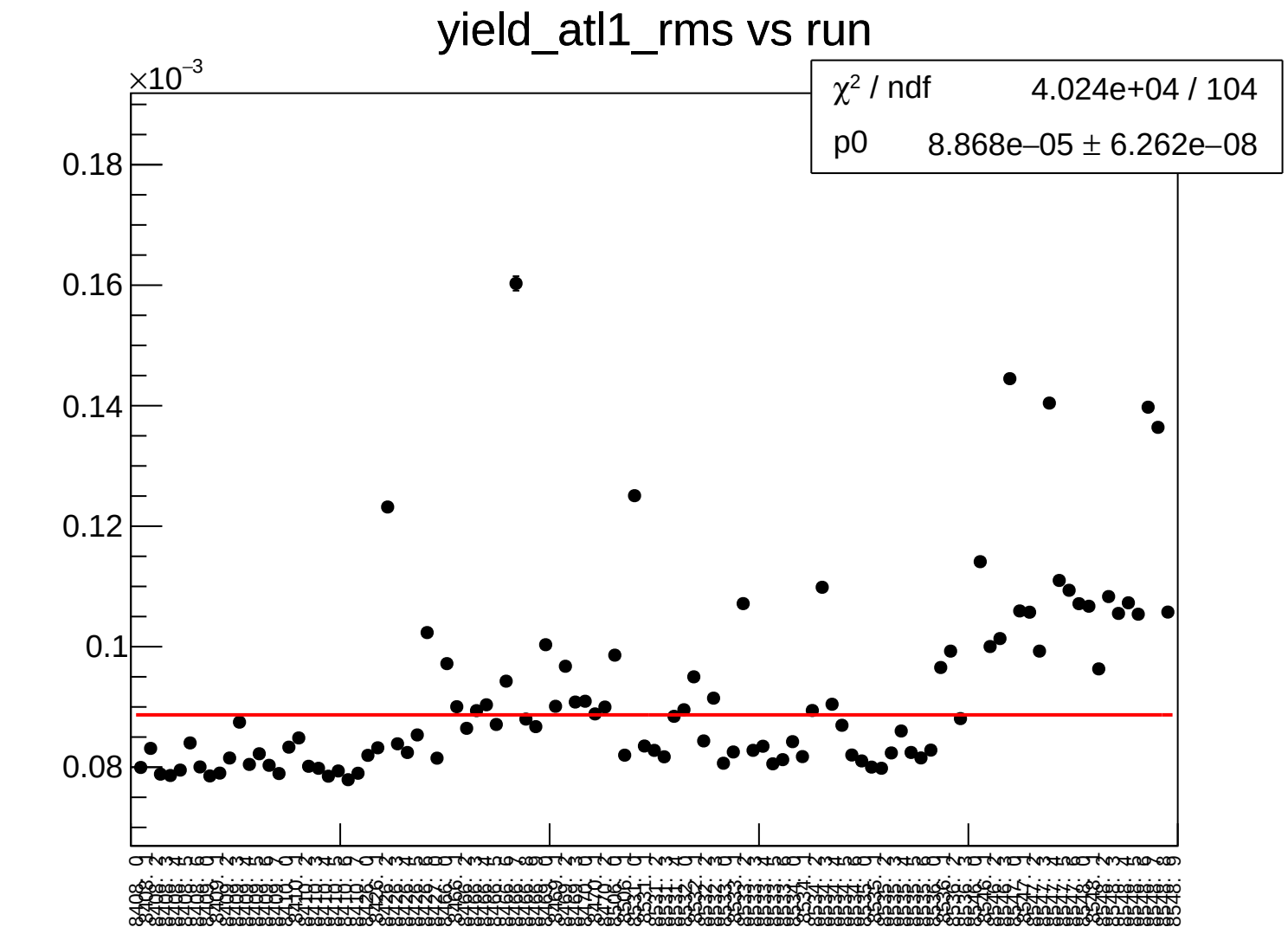

yield_dsr_mean vs run
χ² / ndf 1.082e+06 / 104
p0 −25.5 ± 4.888e−05
−25.35
−25.4
−25.45
−25.5
−25.55
−25.6
−25.65
pull
Entries 105
Mean 199.8
Std Dev 0
200
100
0
−100
−200
−300
−400

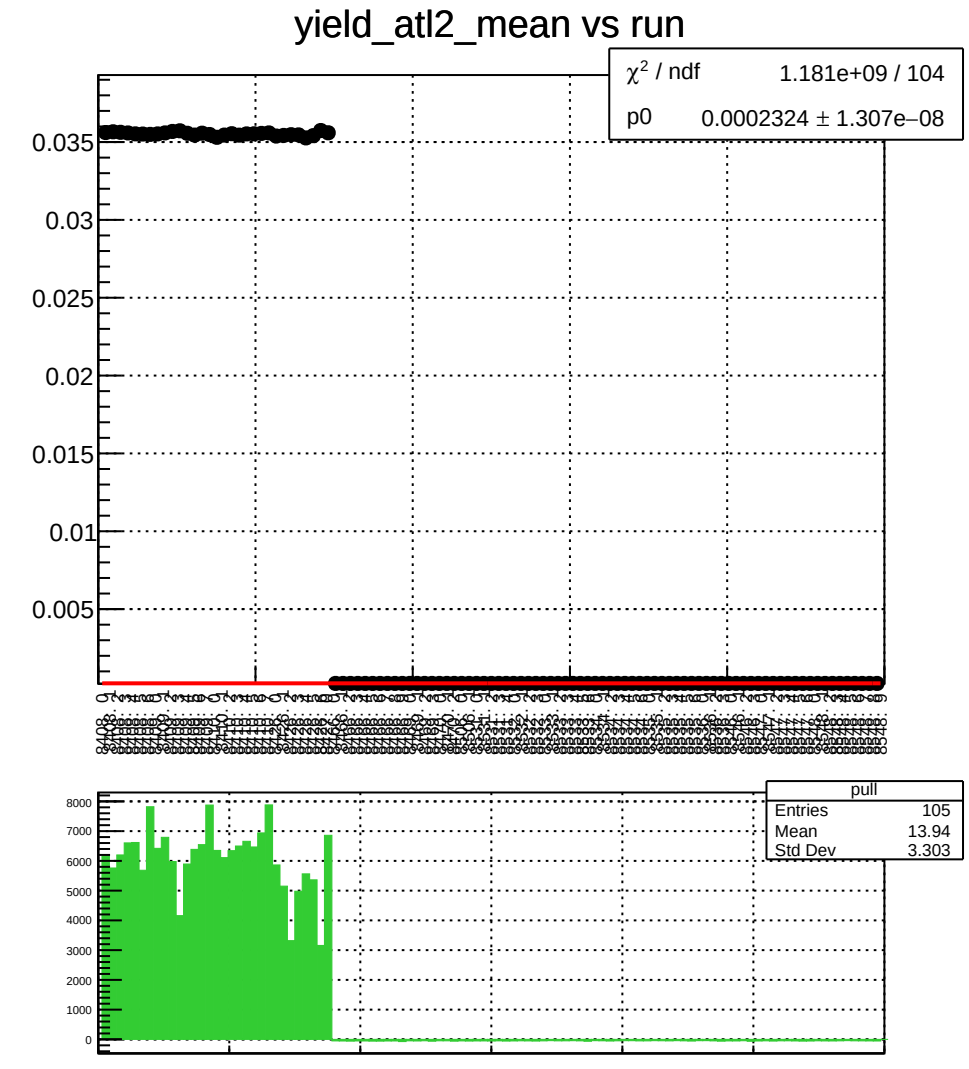

pull1D
Entries 105
Mean 0.9319
Std Dev 4.274
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

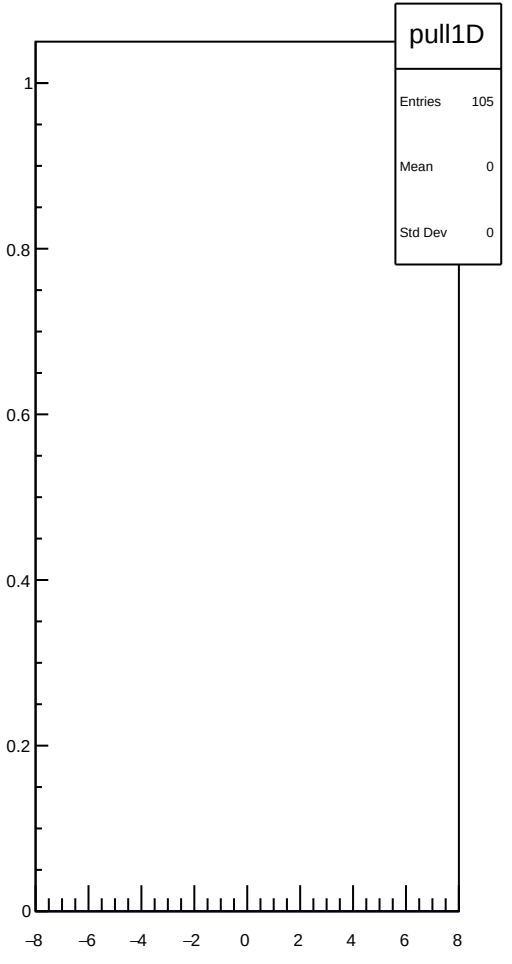

yield_dsr_rms vs run
χ² / ndf 3.128e+04 / 104
p0 0.04906 ± 3.456e−05
0.07
0.065
0.06
0.055
0.05
0.045
0.04
0.035

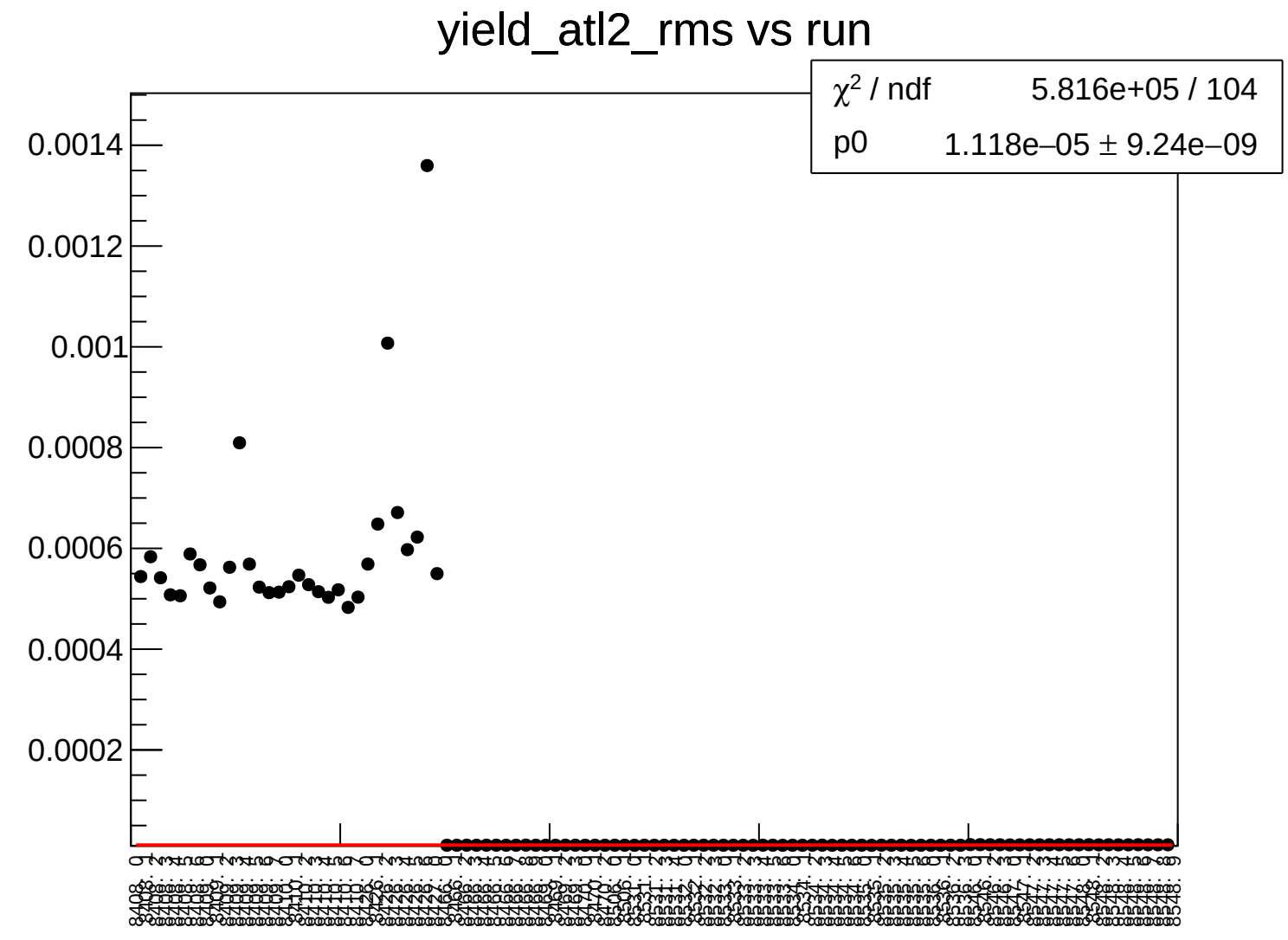

yield_atl1_mean vs run
χ² / ndf 2.105e+07 / 104
p0 0.02758 ± 8.855e−08
0.0282
0.028
0.0278
0.0276
0.0274
0.0272
0.027
pull
Entries 105
Mean 595.8
Std Dev 0
600
400
200
0
−200
−400
−600
−800

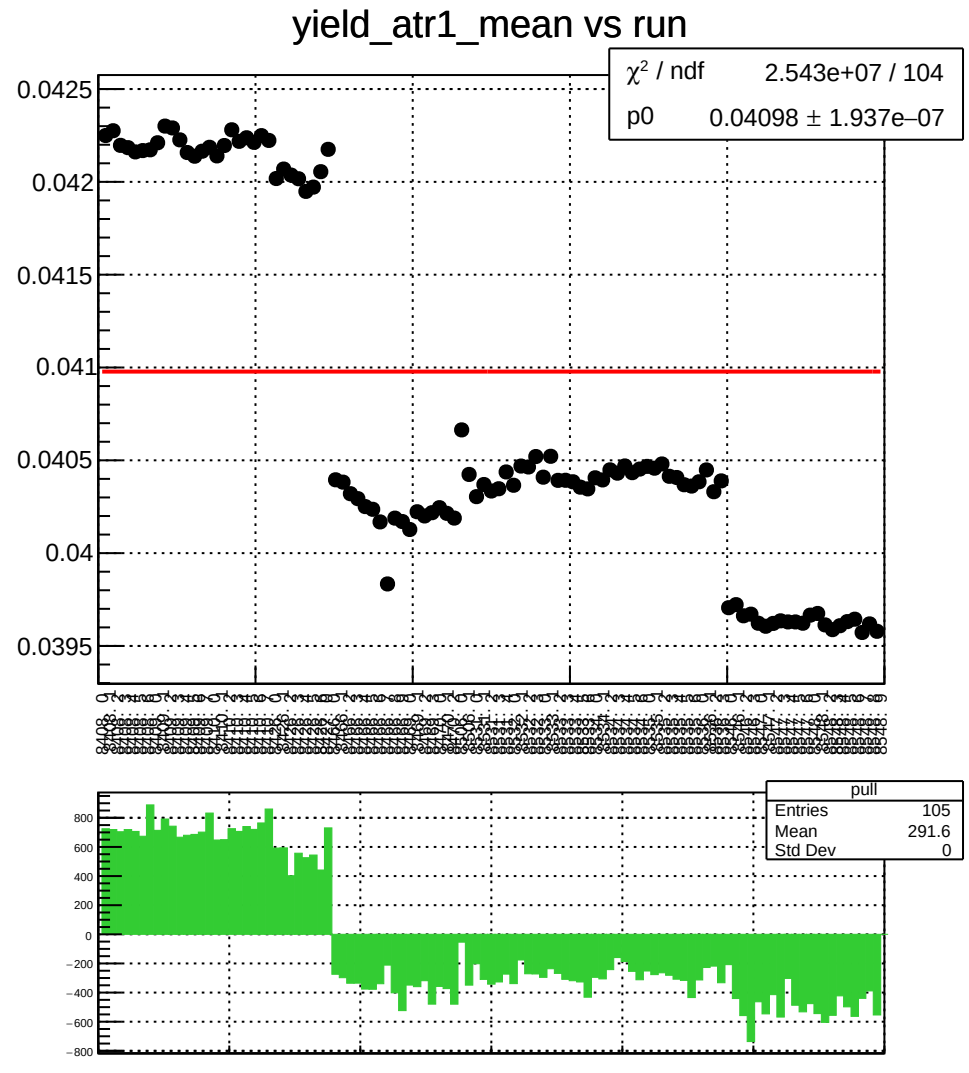

pull1D
Entries 105
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

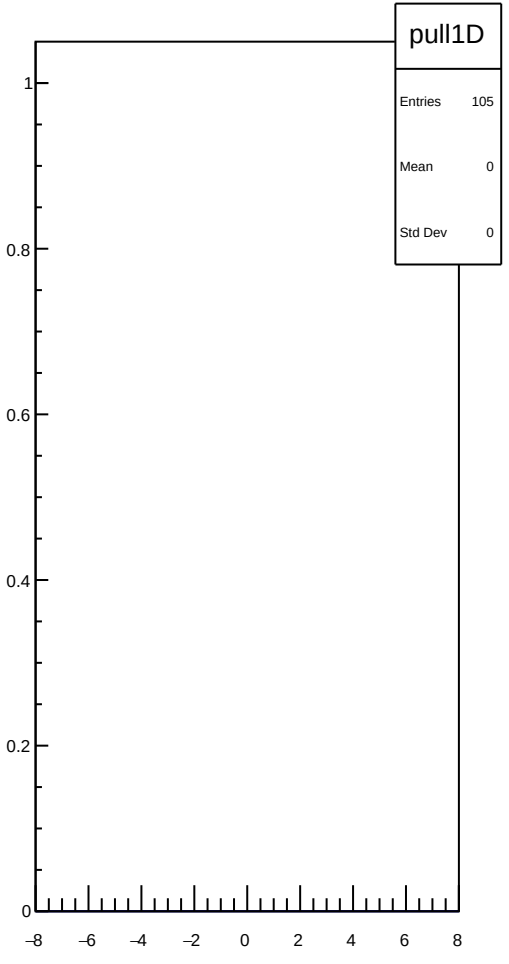

yield_atl1_rms vs run
×10⁻³
χ² / ndf 4.024e+04 / 104
p0 8.868e−05 ± 6.262e−08
0.18
0.16
0.14
0.12
0.1
0.08

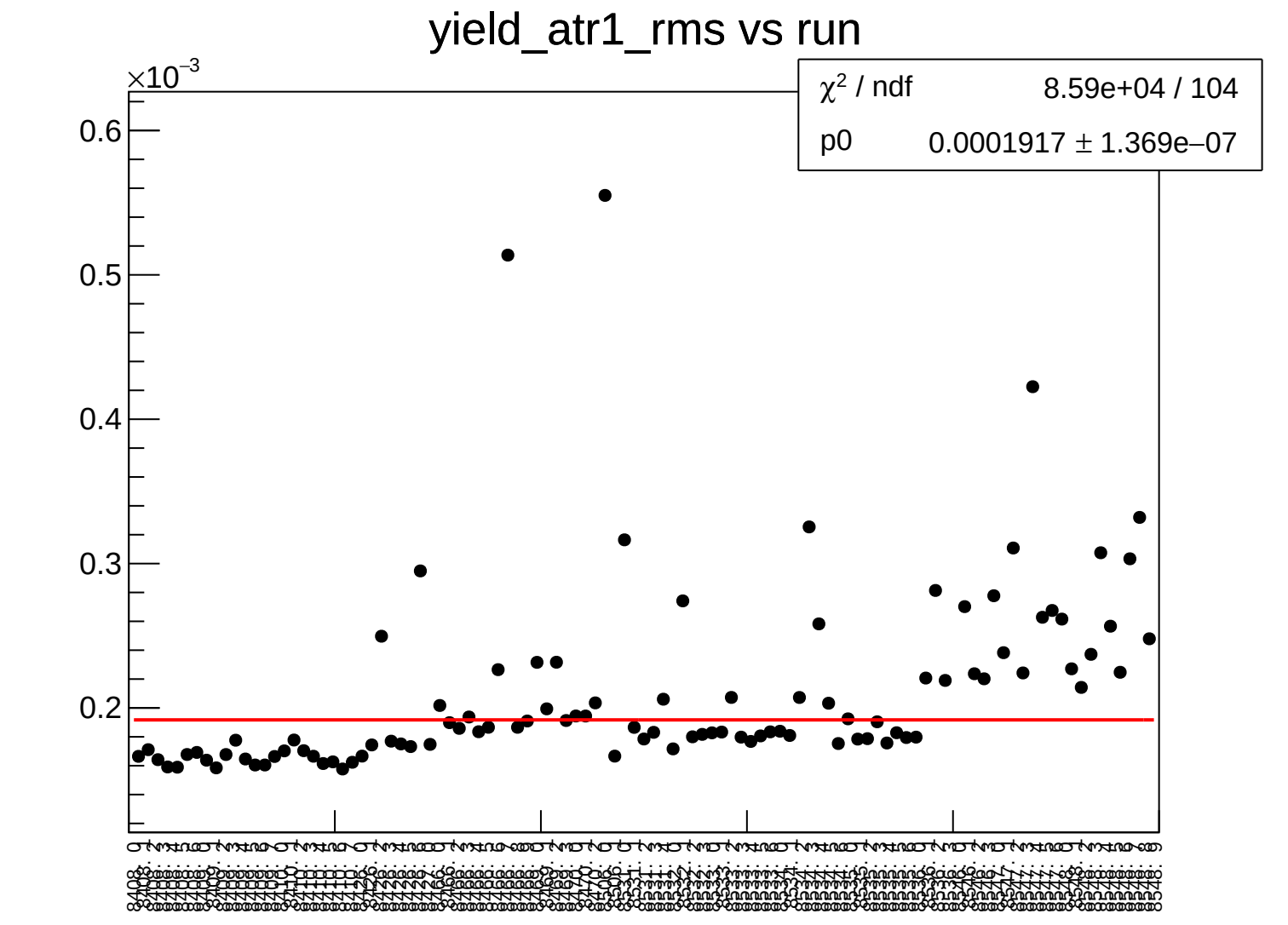

yield_atl2_mean vs run
χ² / ndf 1.181e+09 / 104
p0 0.0002324 ± 1.307e−08
0.035
0.03
0.025
0.02
0.015
0.01
0.005
pull
Entries 105
Mean 13.94
Std Dev 3.303
8000
7000
6000
5000
4000
3000
2000
1000
0

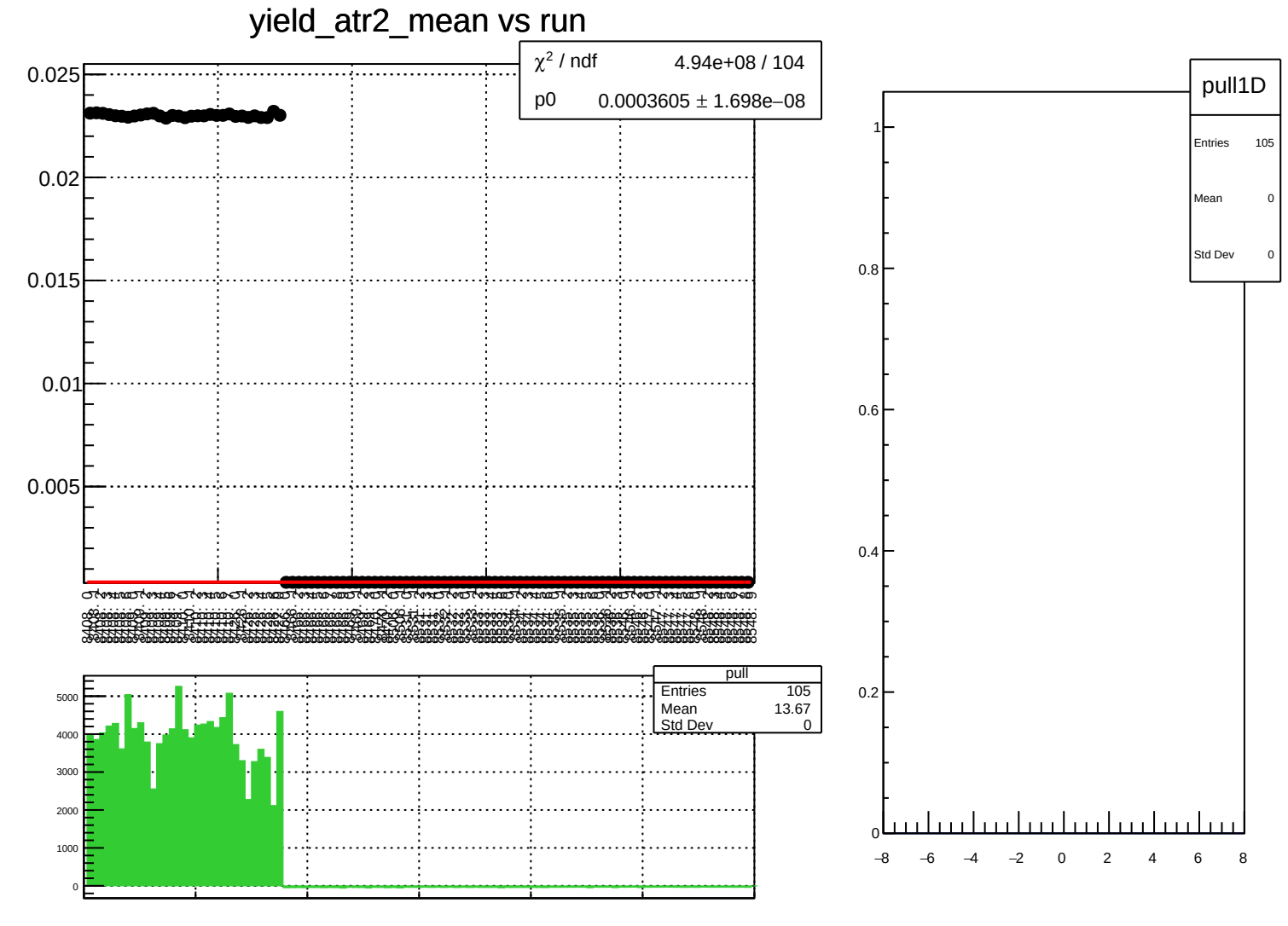

pull1D
Entries 105
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

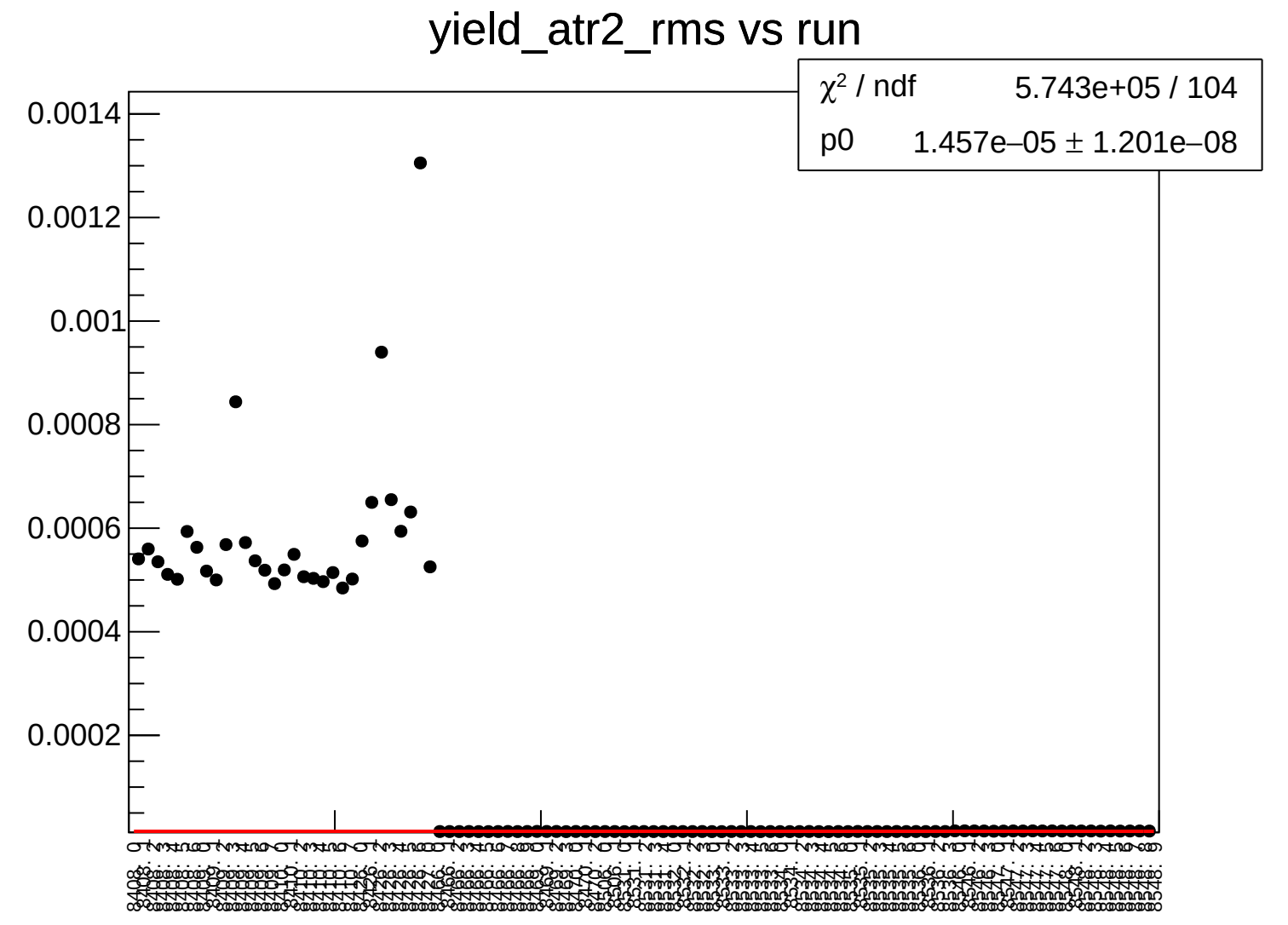

yield_atl2_rms vs run
χ² / ndf 5.816e+05 / 104
p0 1.118e−05 ± 9.24e−09
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002

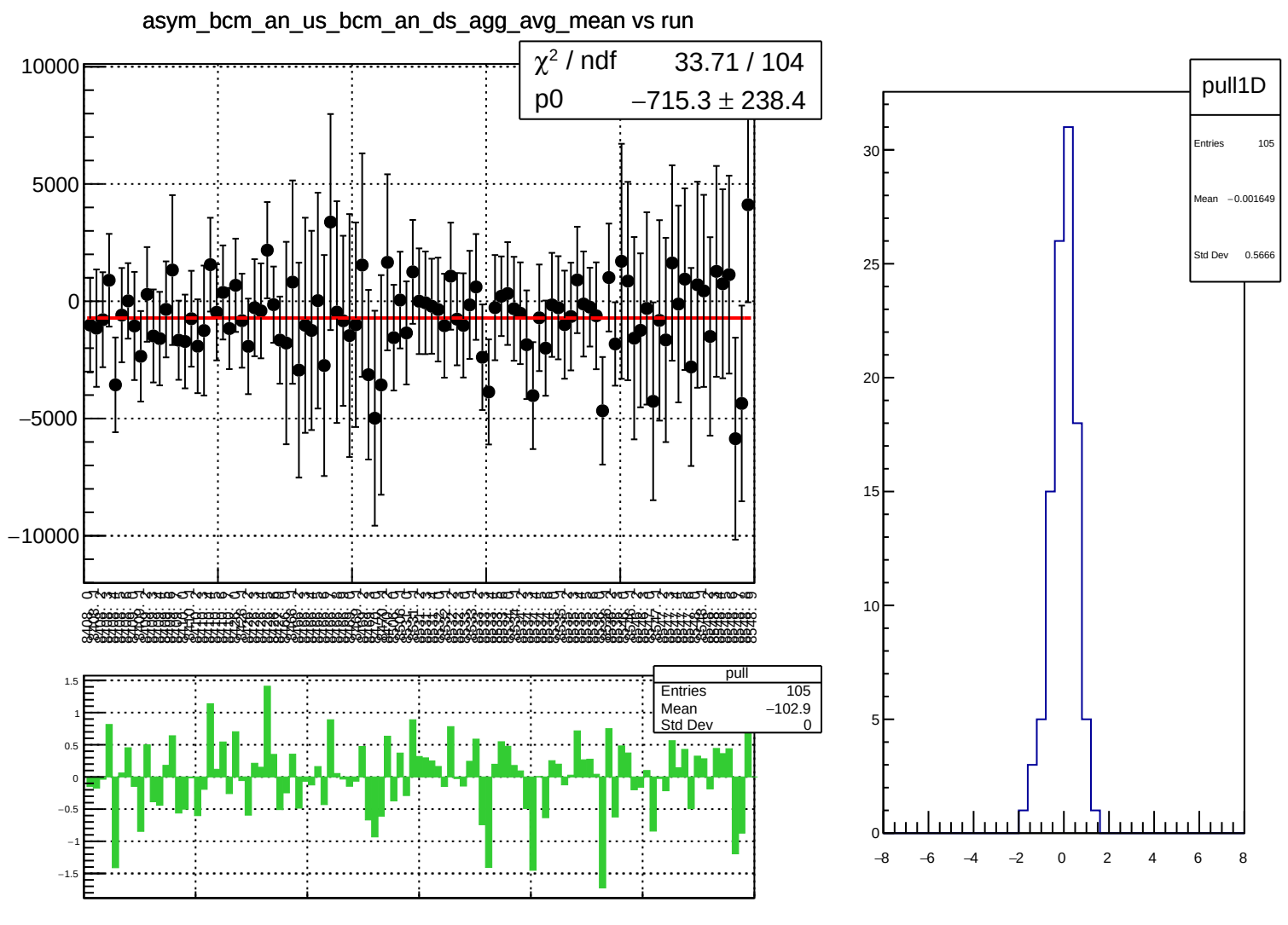

yield_atr1_mean vs run
χ² / ndf 2.543e+07 / 104
p0 0.04098 ± 1.937e−07
0.0425
0.042
0.0415
0.041
0.0405
0.04
0.0395
pull
Entries 105
Mean 291.6
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800

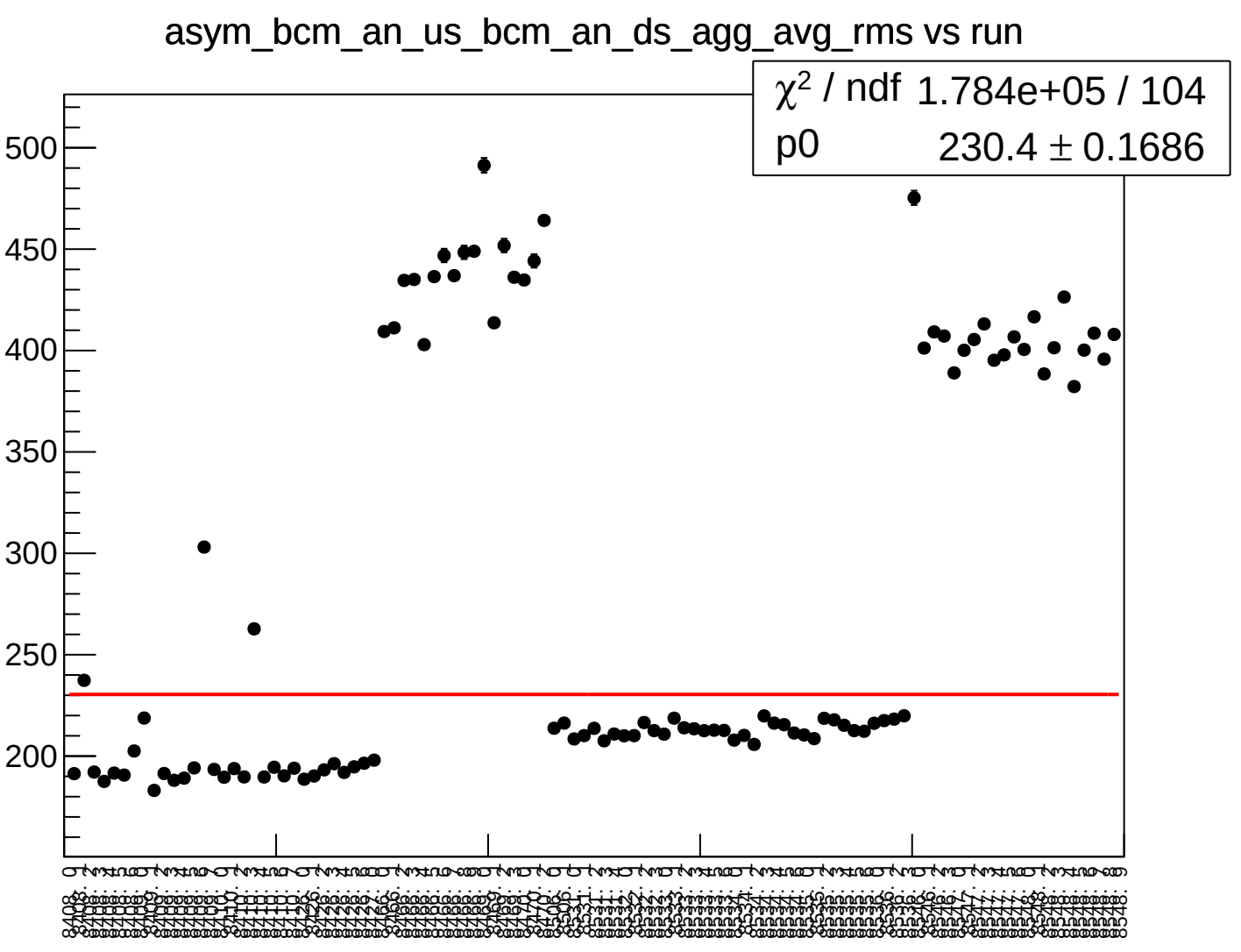

pull1D
Entries 105
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

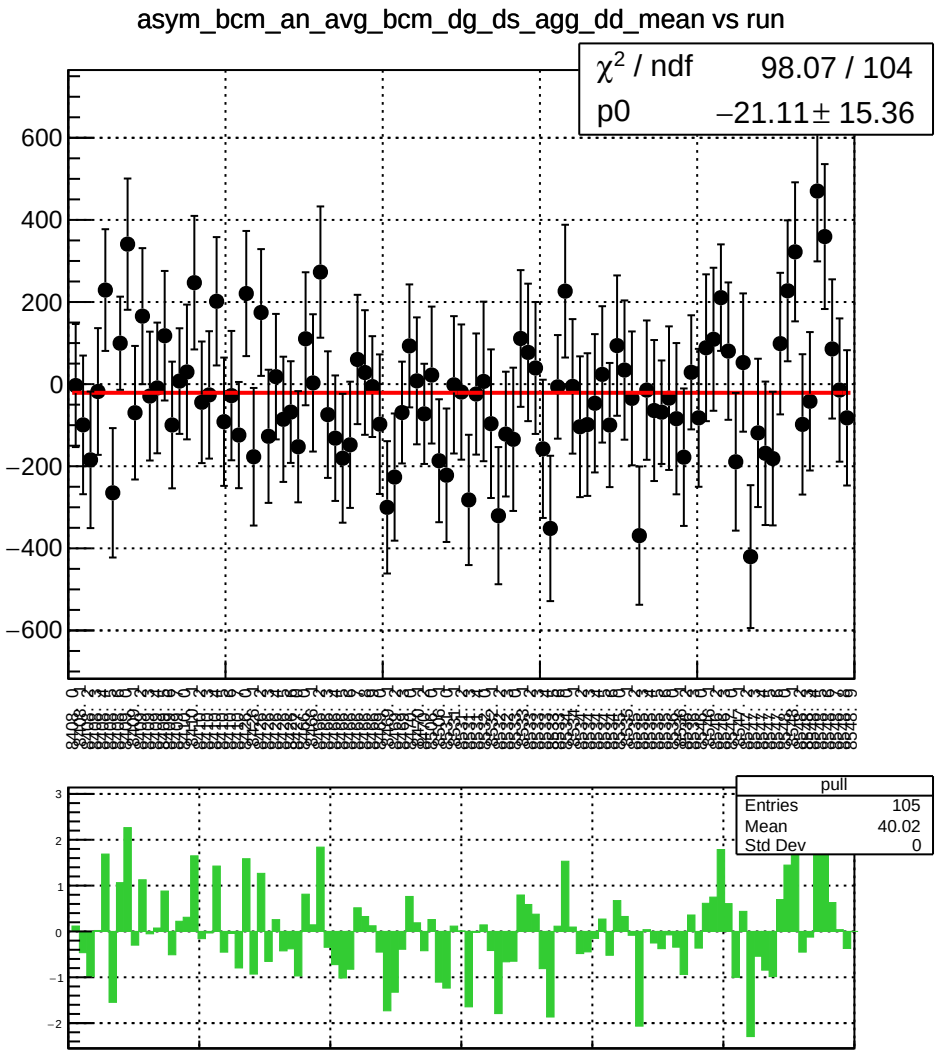

yield_atr1_rms vs run
×10⁻³
0.6
0.5
0.4
0.3
0.2
χ² / ndf 8.59e+04 / 104
p0 0.0001917 ± 1.369e−07

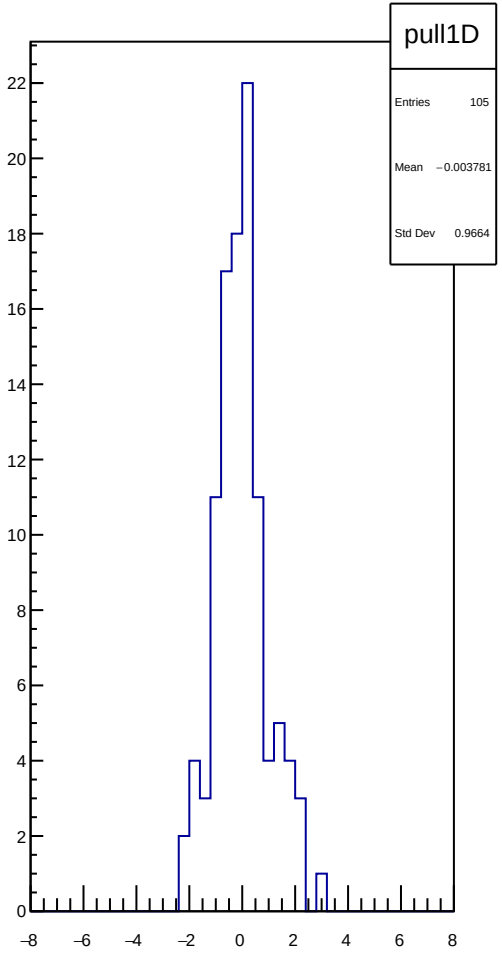

yield_atr2_mean vs run
χ² / ndf 4.94e+08 / 104
p0 0.0003605 ± 1.698e−08
0.025
0.02
0.015
0.01
0.005
pull
Entries 105
Mean 13.67
Std Dev 0
5000
4000
3000
2000
1000
0
pull1D
Entries 105
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

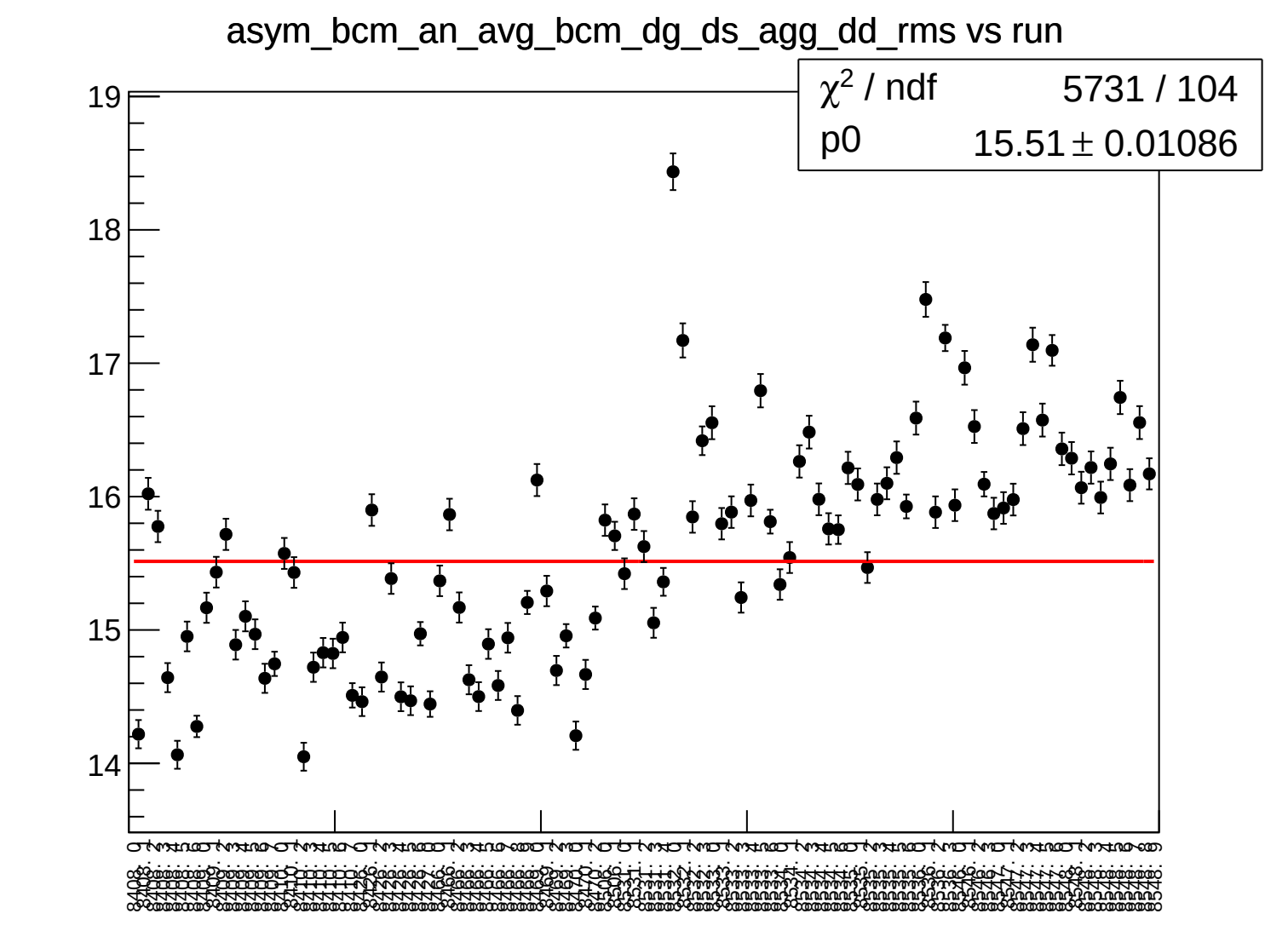

yield_atr2_rms vs run
χ² / ndf 5.743e+05 / 104
p0 1.457e−05 ± 1.201e−08
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002

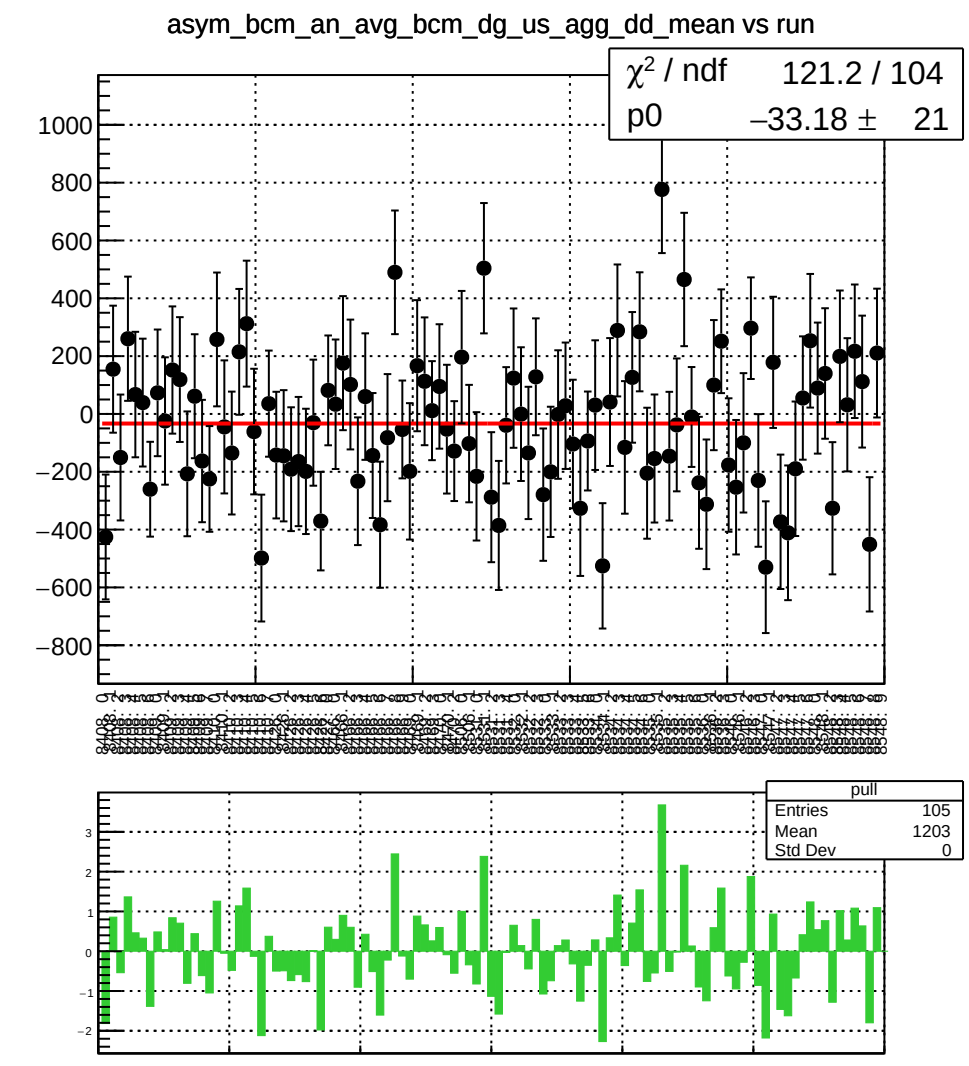

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 33.71 / 104
p0 −715.3 ± 238.4
10000
5000
0
−5000
−10000
pull
Entries 105
Mean −102.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 105
Mean −0.001649
Std Dev 0.5666
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

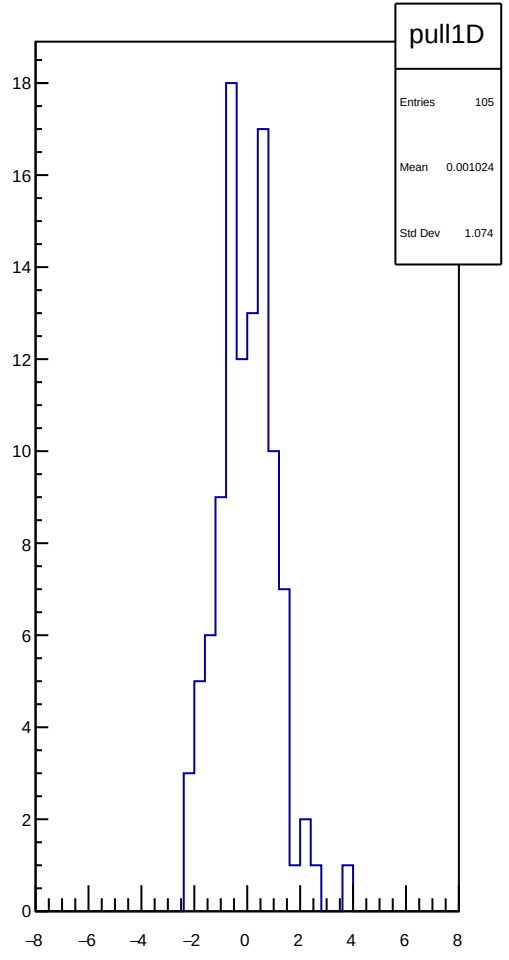

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.784e+05 / 104
p0 230.4 ± 0.1686
500
450
400
350
300
250
200

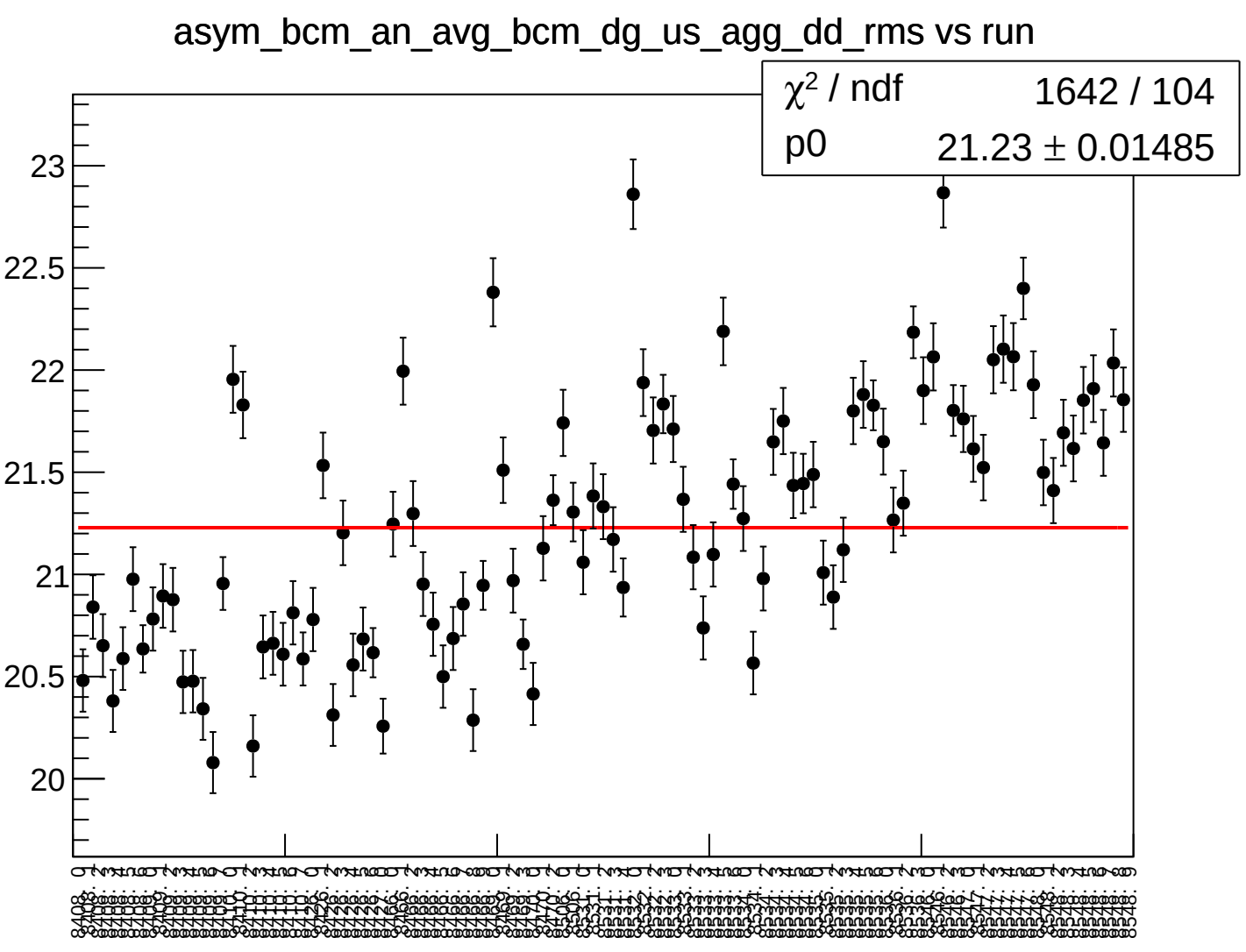

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 98.07 / 104
p0 −21.11± 15.36
pull
Entries 105
Mean 40.02
Std Dev 0

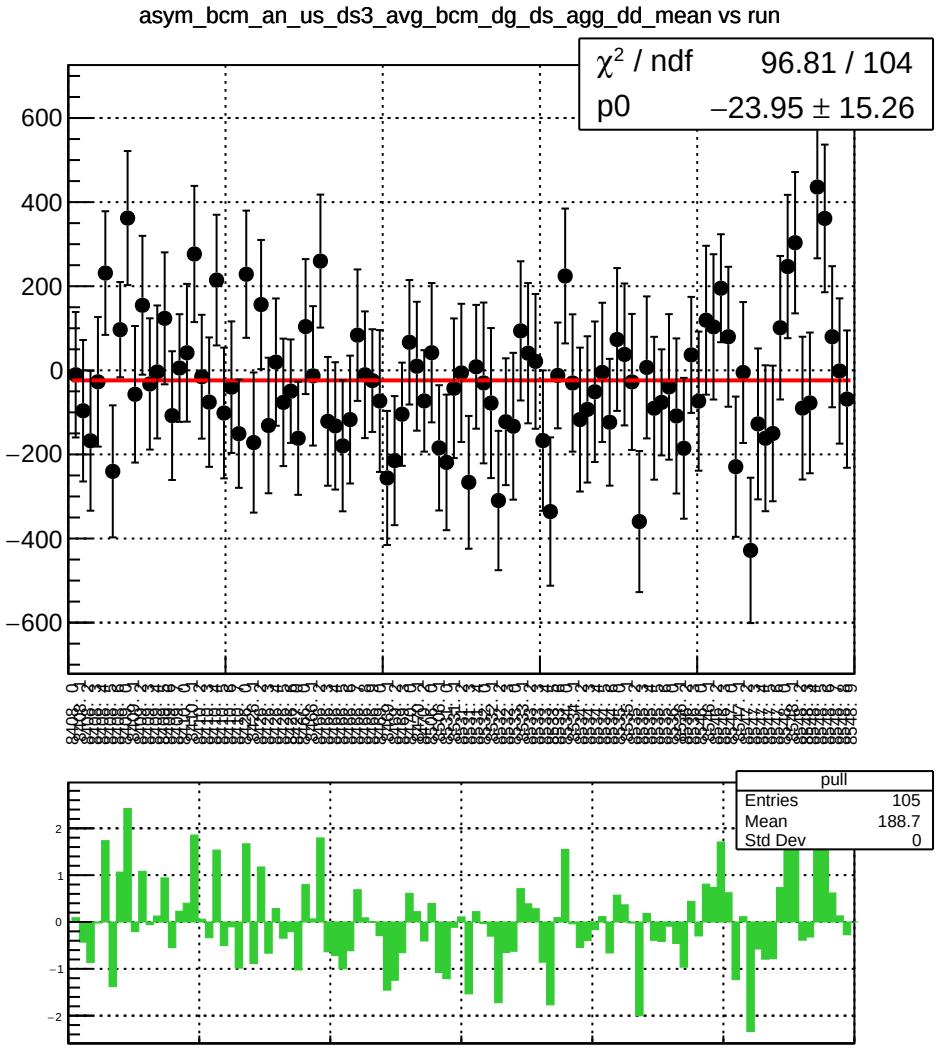

pull1D
Entries 105
Mean −0.003781
Std Dev 0.9664

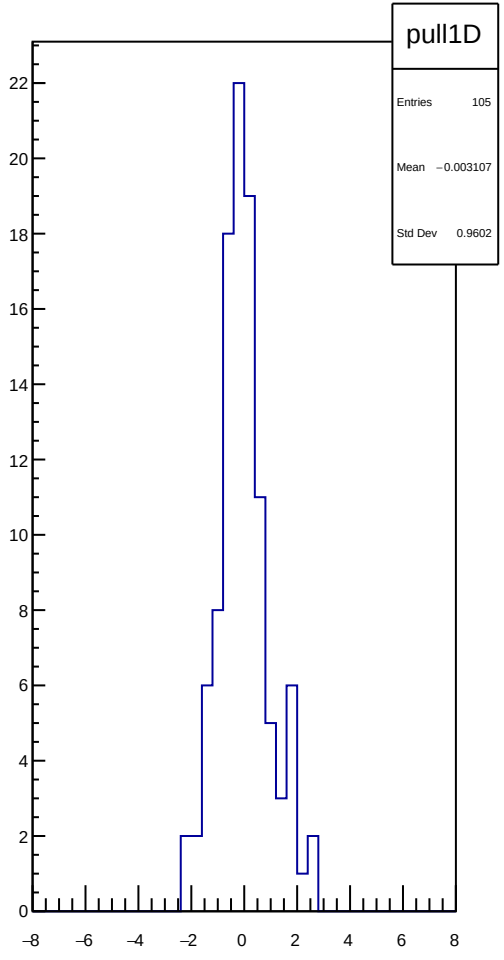

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 5731 / 104
p0 15.51 ± 0.01086
19
18
17
16
15
14

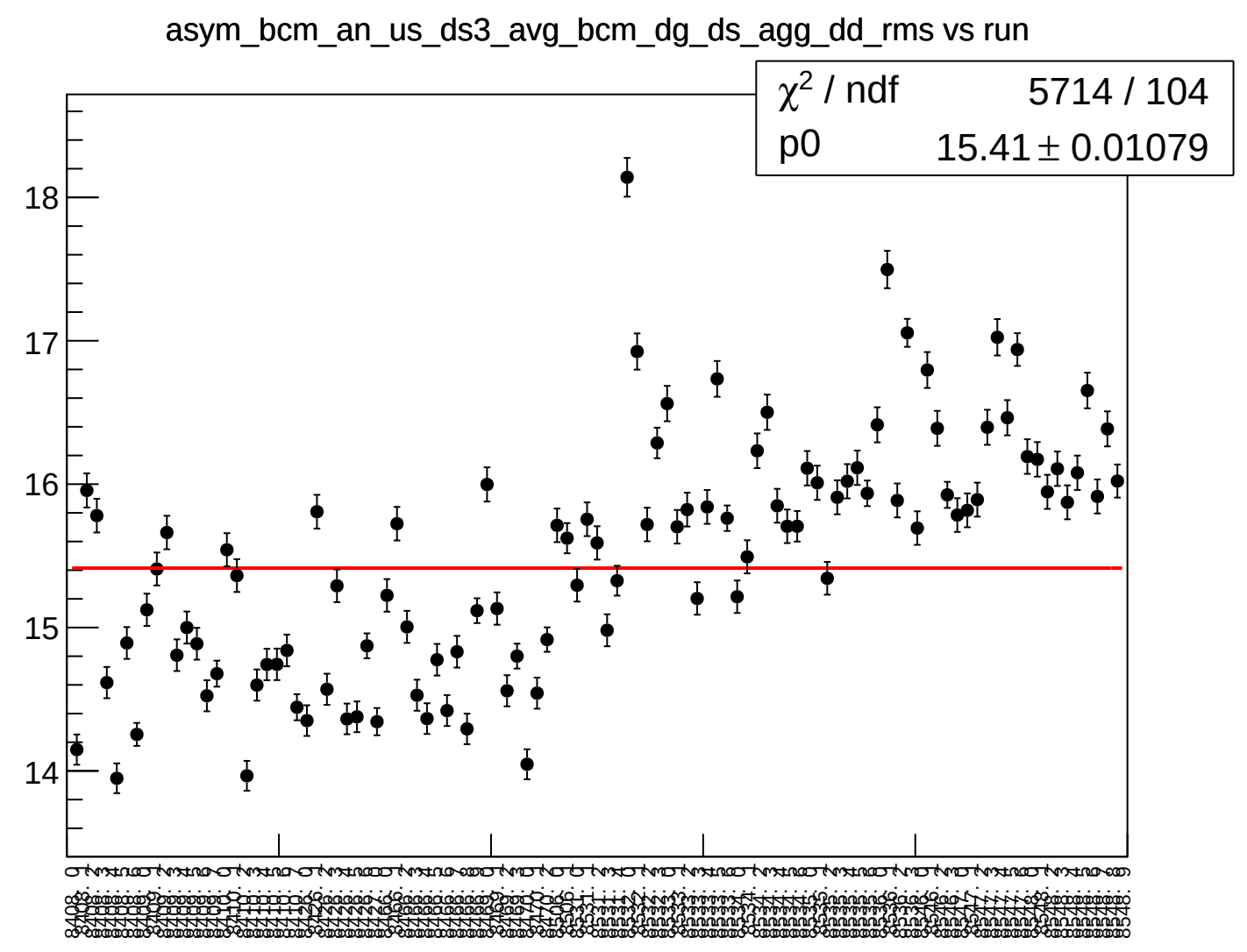

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 121.2 / 104
p0 −33.18 ± 21
1000
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 105
Mean 1203
Std Dev 0
3
2
1
0
−1
−2

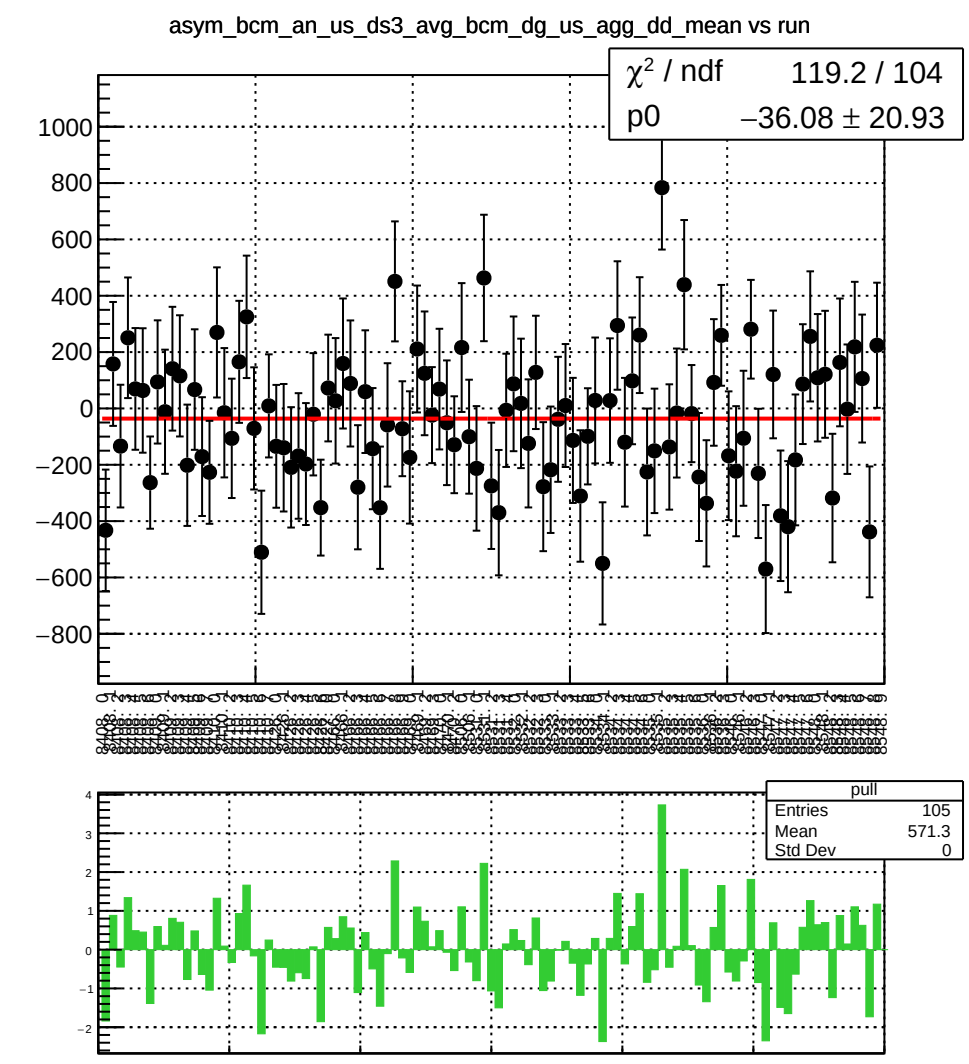

pull1D
Entries 105
Mean 0.001024
Std Dev 1.074
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

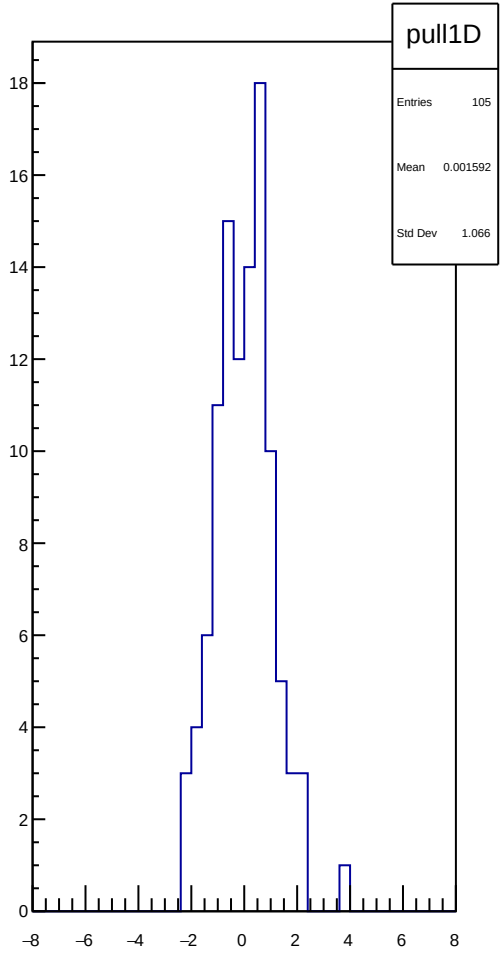

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1642 / 104
p0 21.23 ± 0.01485
23
22.5
22
21.5
21
20.5
20

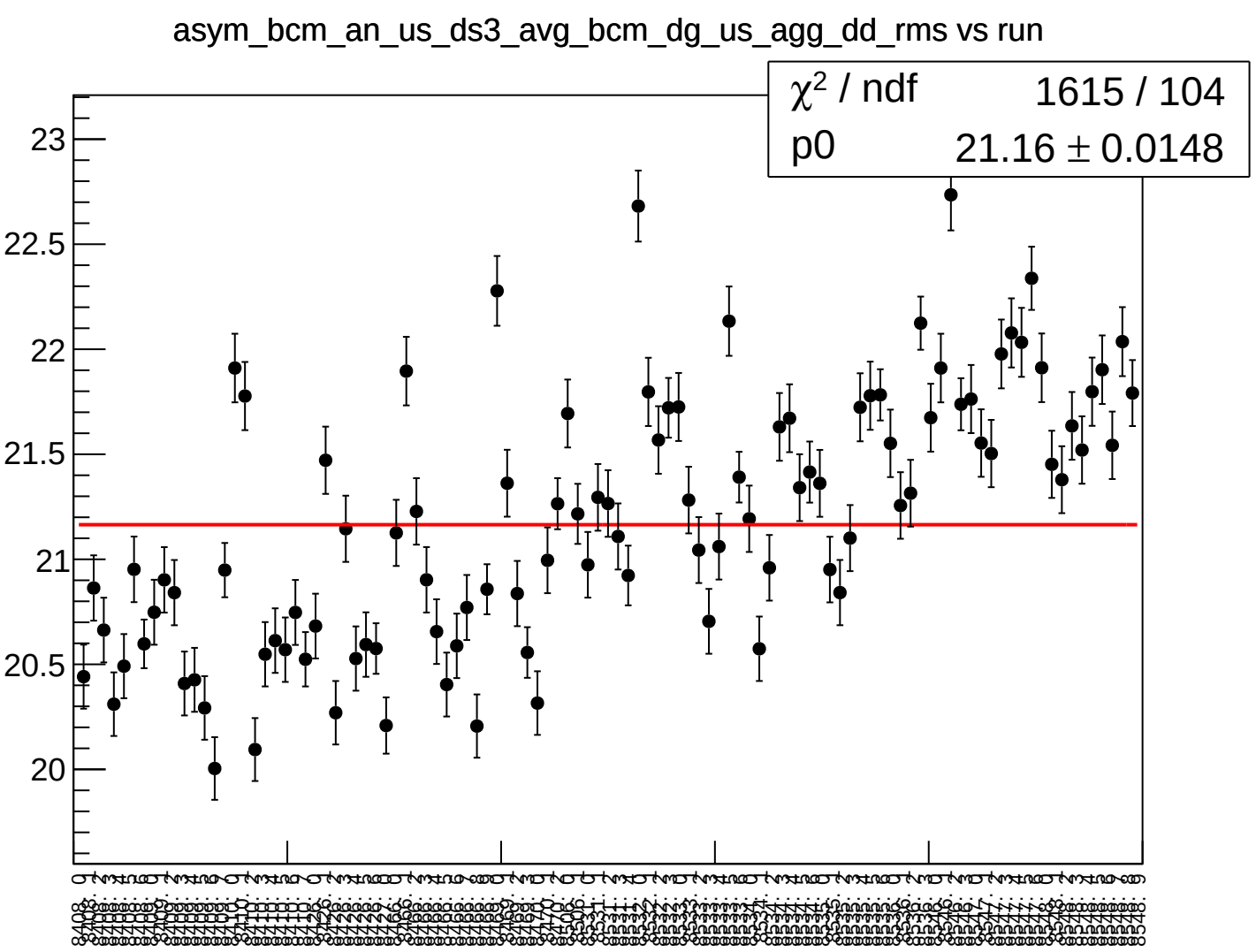

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 96.81 / 104
p0 −23.95 ± 15.26
600
400
200
0
−200
−400
−600
pull
Entries 105
Mean 188.7
Std Dev 0
2
1
0
−1
−2

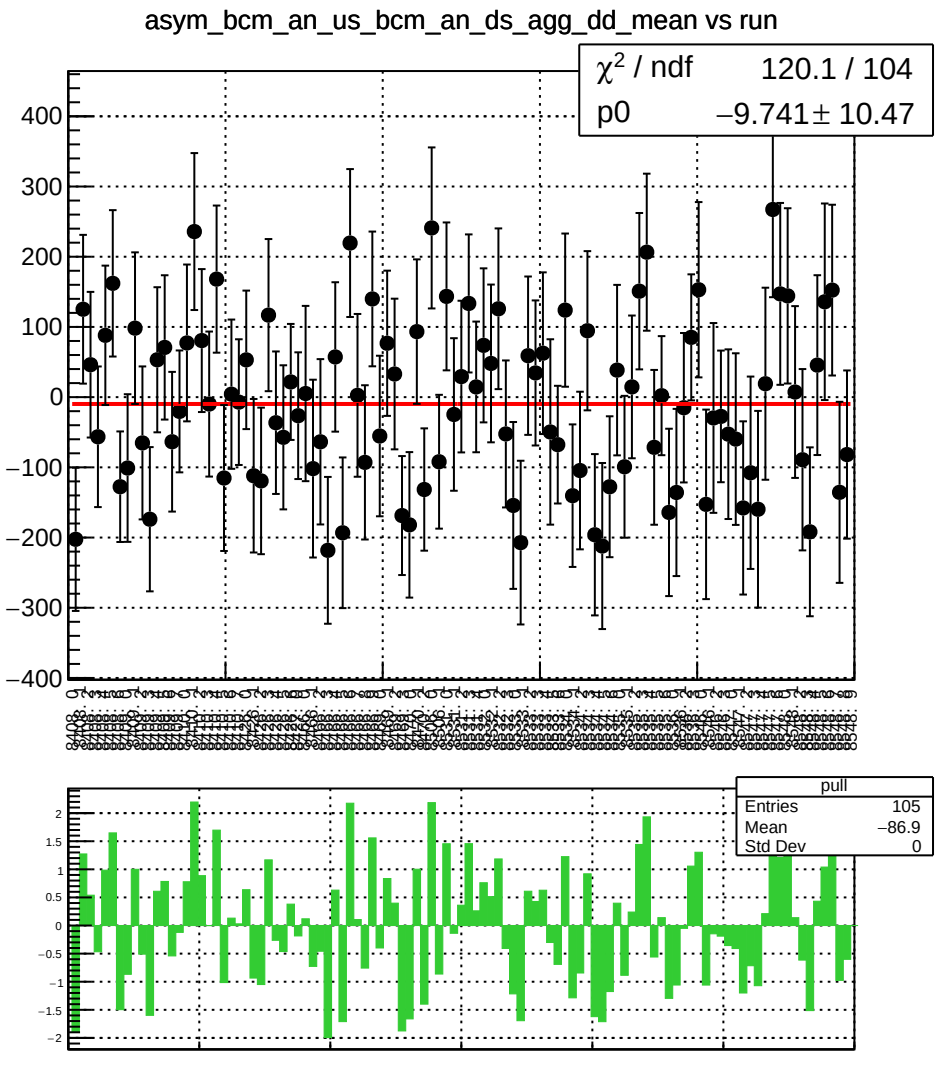

pull1D
Entries 105
Mean −0.003107
Std Dev 0.9602
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

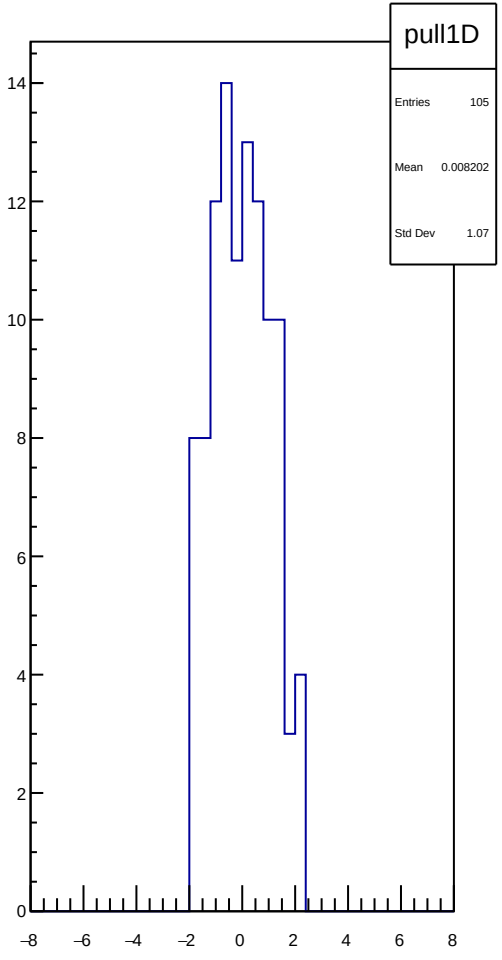

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 5714 / 104
p0 15.41 ± 0.01079
18
17
16
15
14

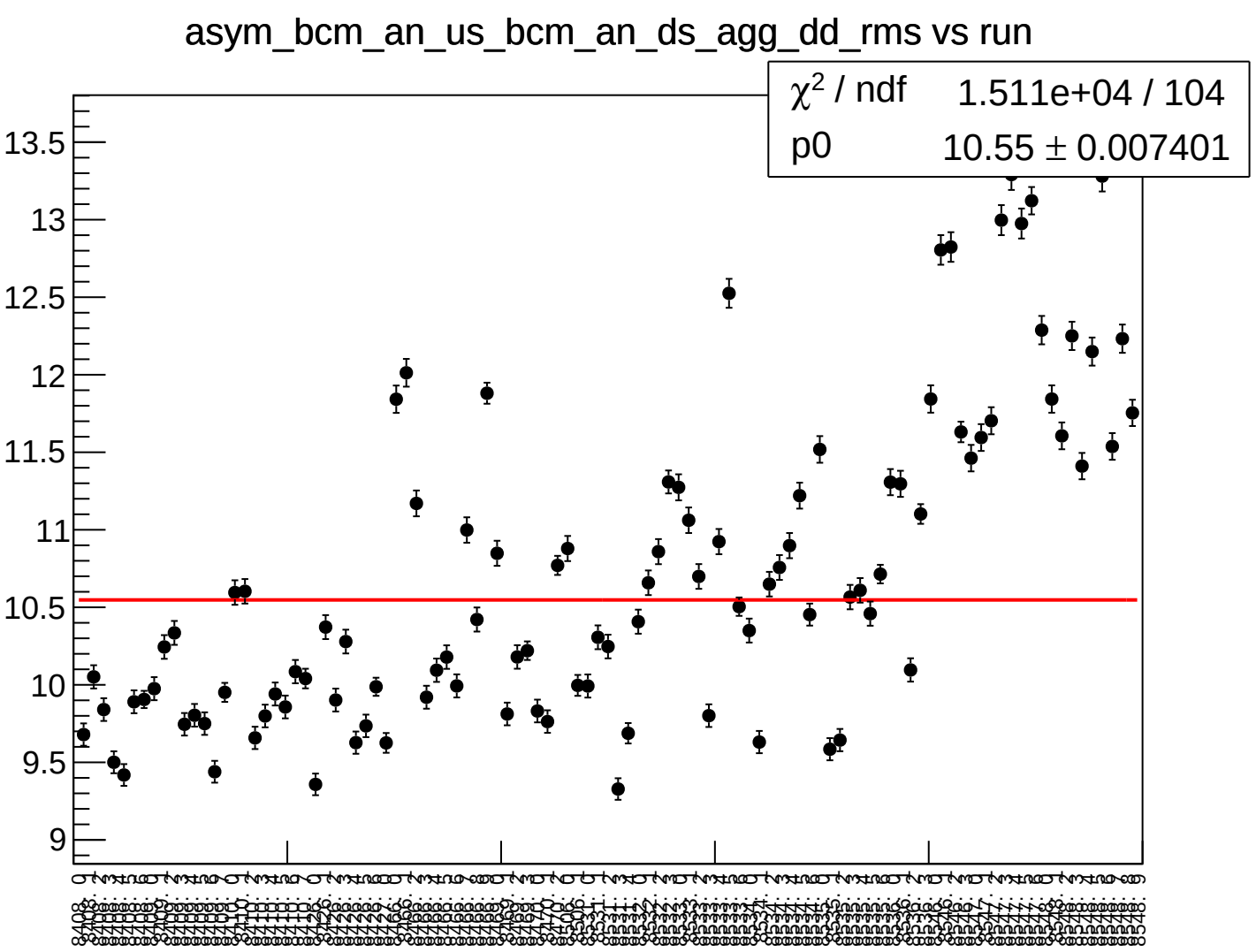

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 119.2 / 104
p0 −36.08 ± 20.93
1000
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 105
Mean 571.3
Std Dev 0
4
3
2
1
0
−1
−2

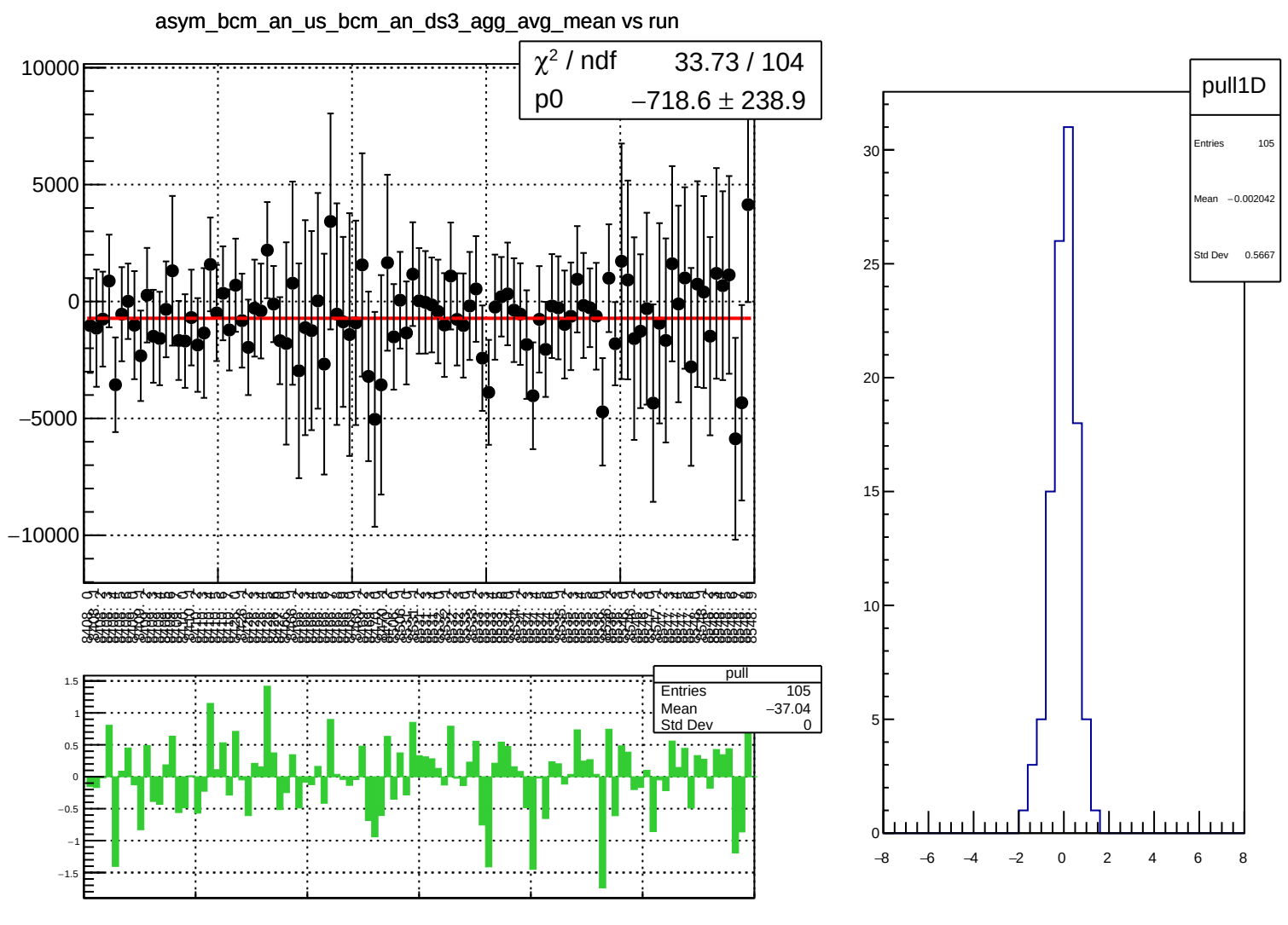

pull1D
Entries 105
Mean 0.001592
Std Dev 1.066
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

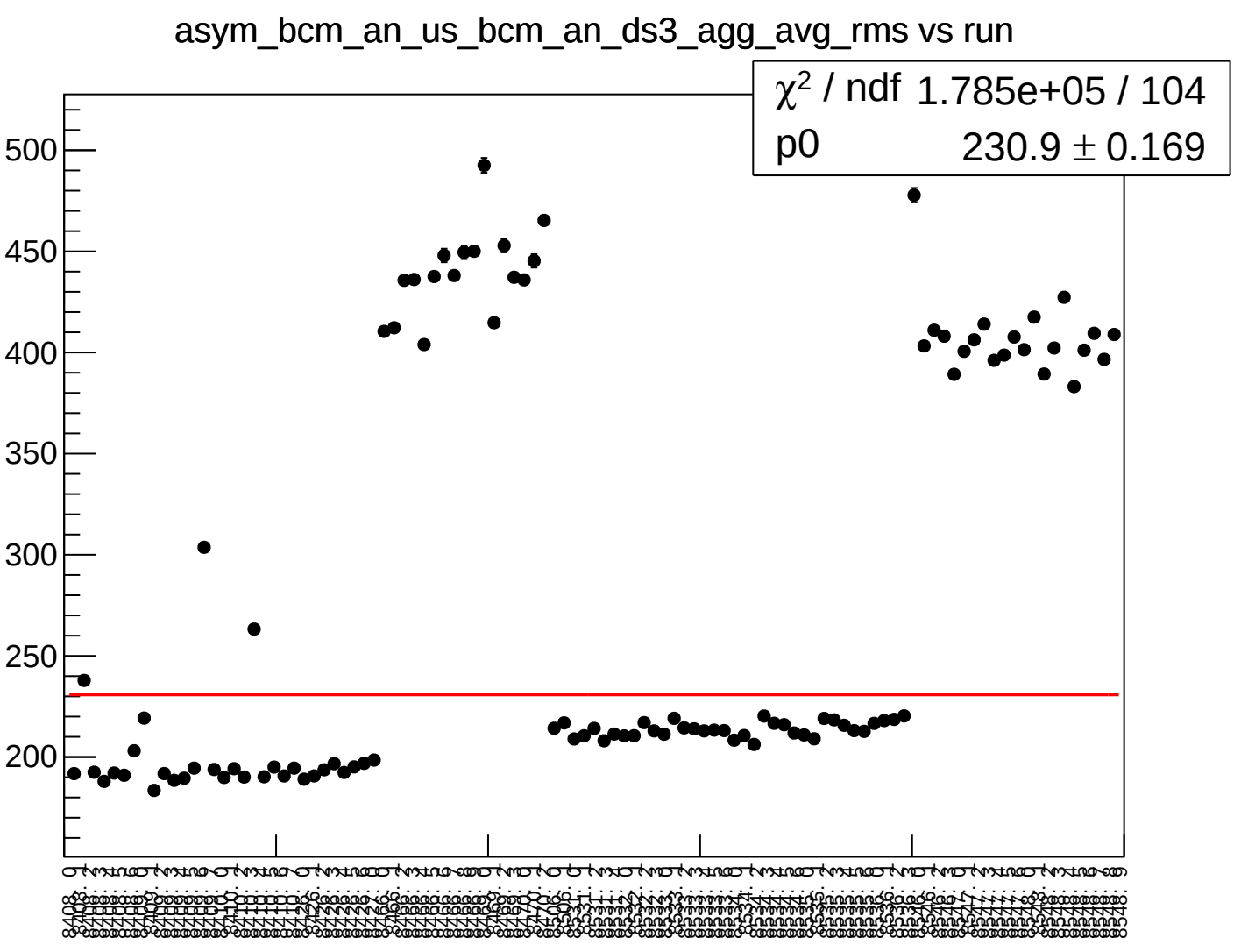

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1615 / 104
p0 21.16 ± 0.0148
23
22.5
22
21.5
21
20.5
20

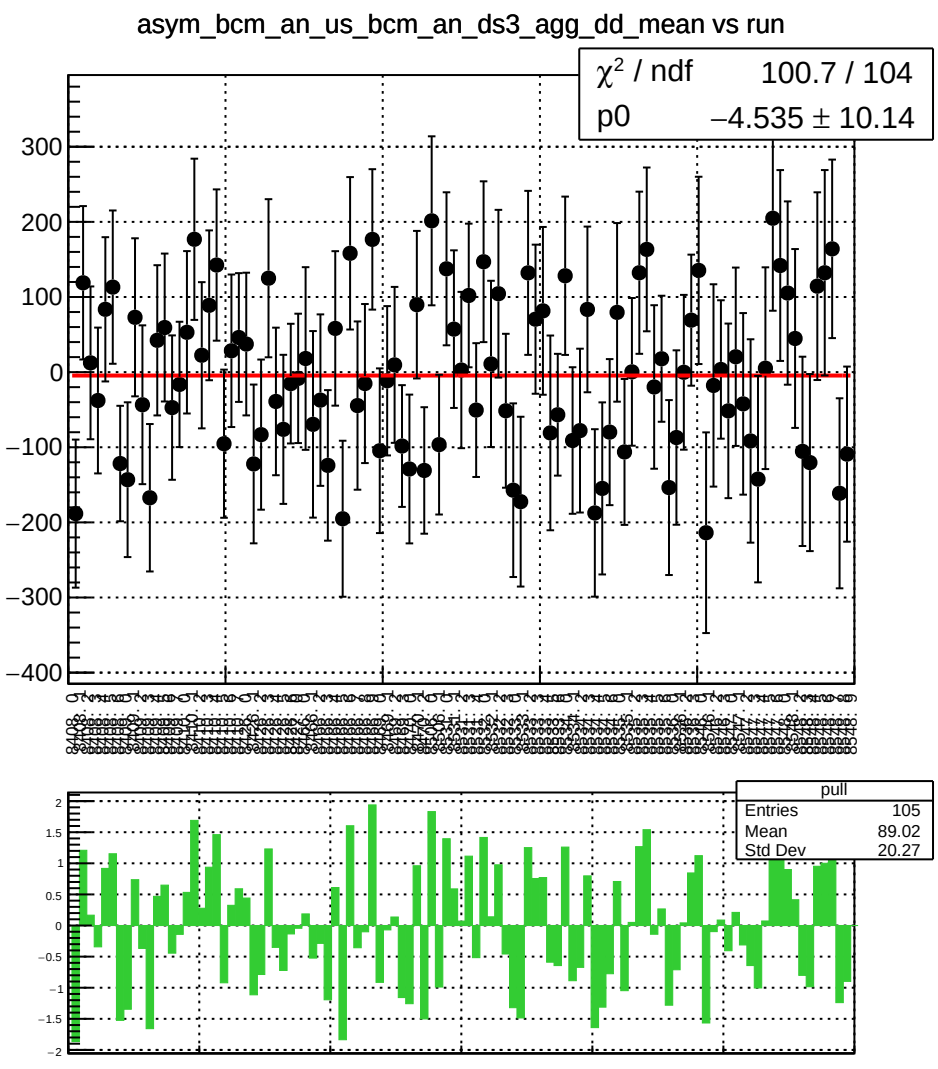

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 120.1 / 104
p0 −9.741 ± 10.47
pull
Entries 105
Mean −86.9
Std Dev 0

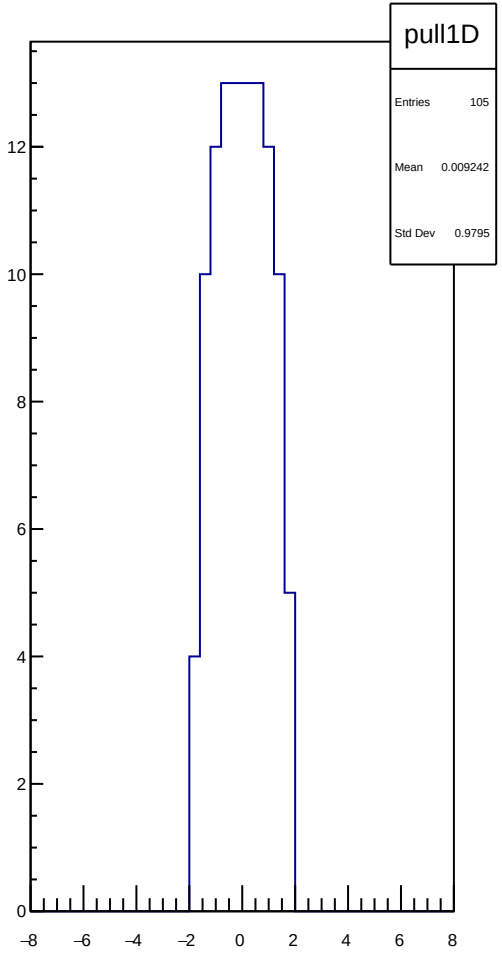

pull1D
Entries 105
Mean 0.008202
Std Dev 1.07

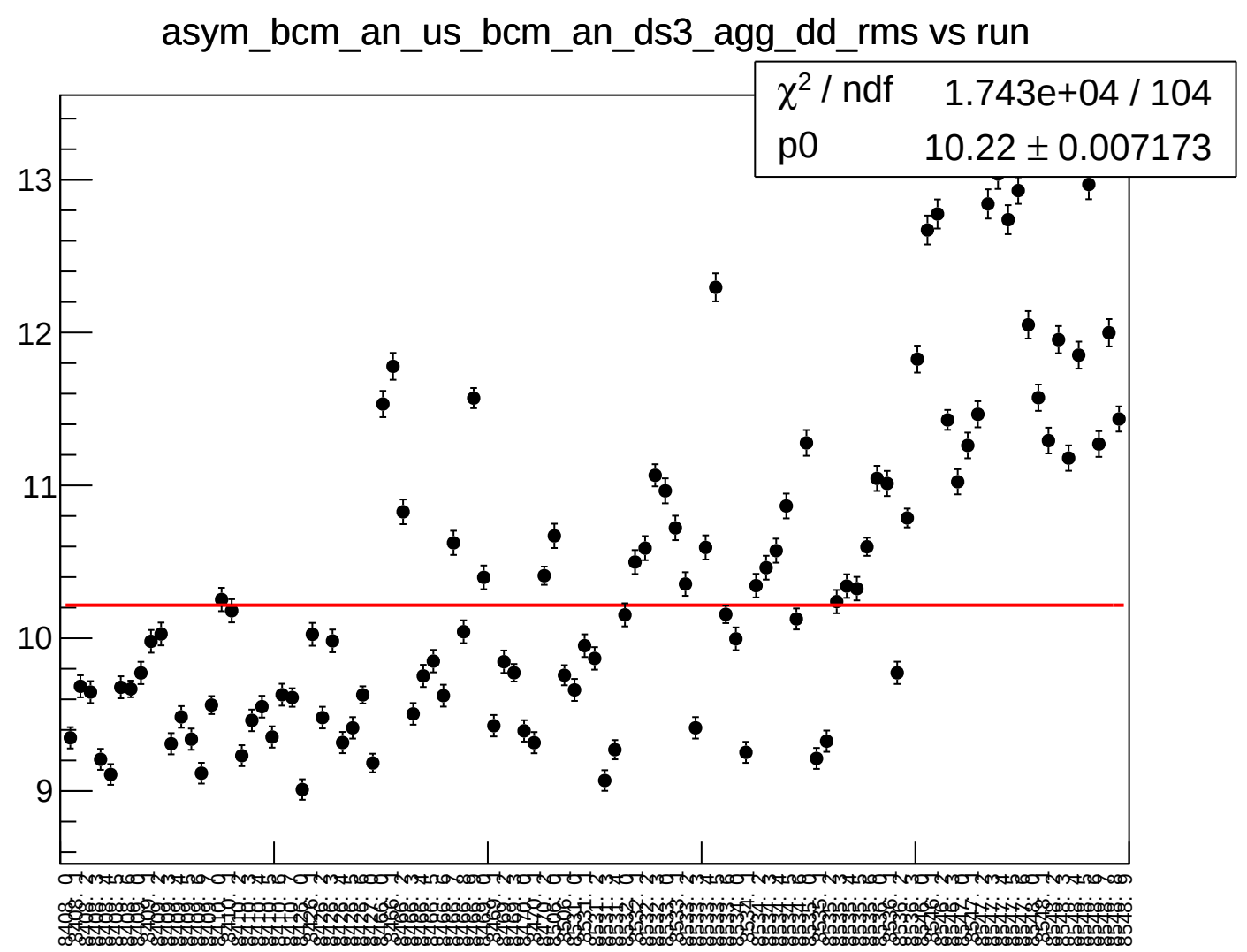

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1.511e+04 / 104
p0 10.55 ± 0.007401
13.5
13
12.5
12
11.5
11
10.5
10
9.5
9

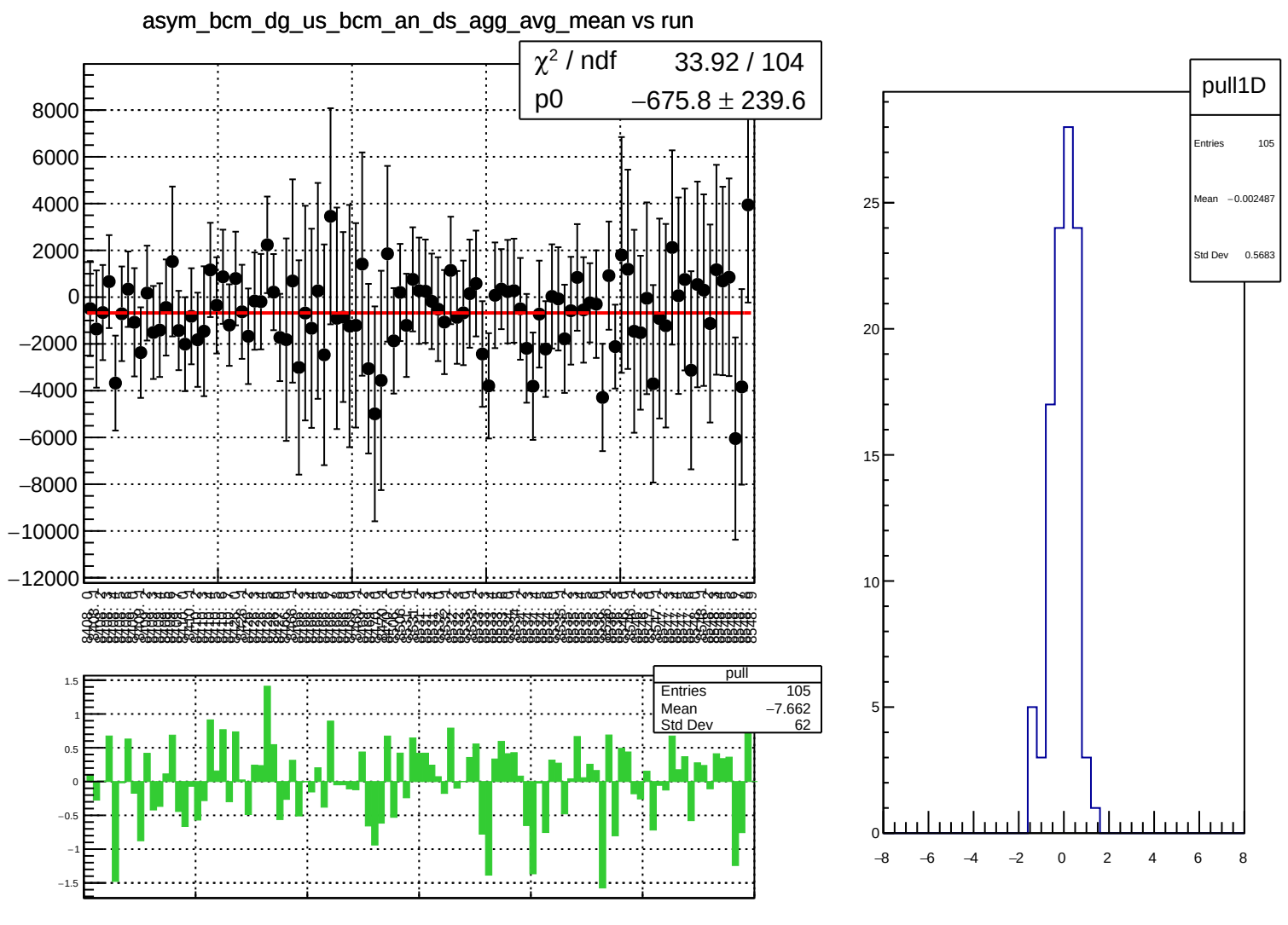

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 33.73 / 104
p0 −718.6 ± 238.9
10000
5000
0
−5000
−10000
pull
Entries 105
Mean −37.04
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 105
Mean −0.002042
Std Dev 0.5667
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

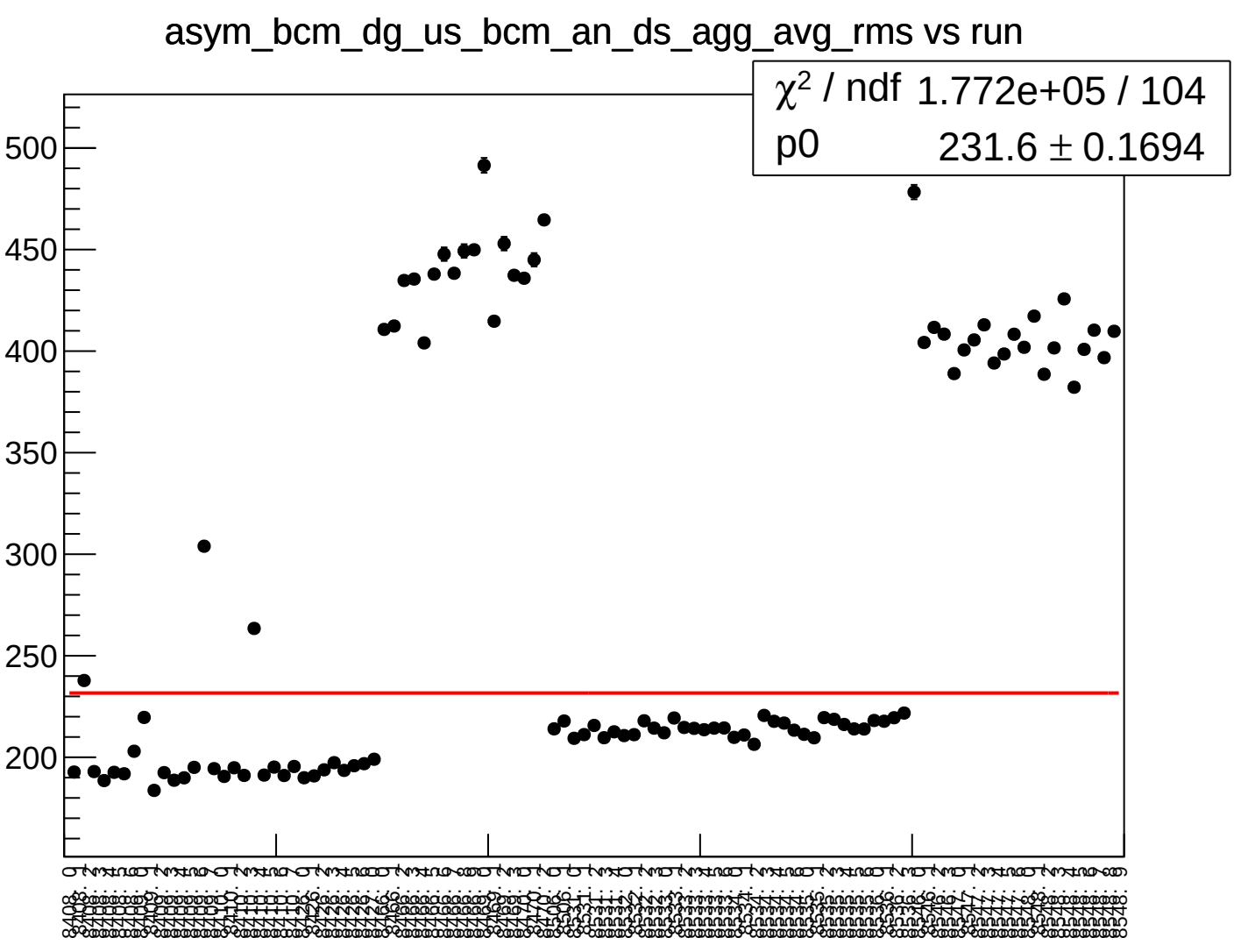

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 1.785e+05 / 104
p0 230.9 ± 0.169
500
450
400
350
300
250
200

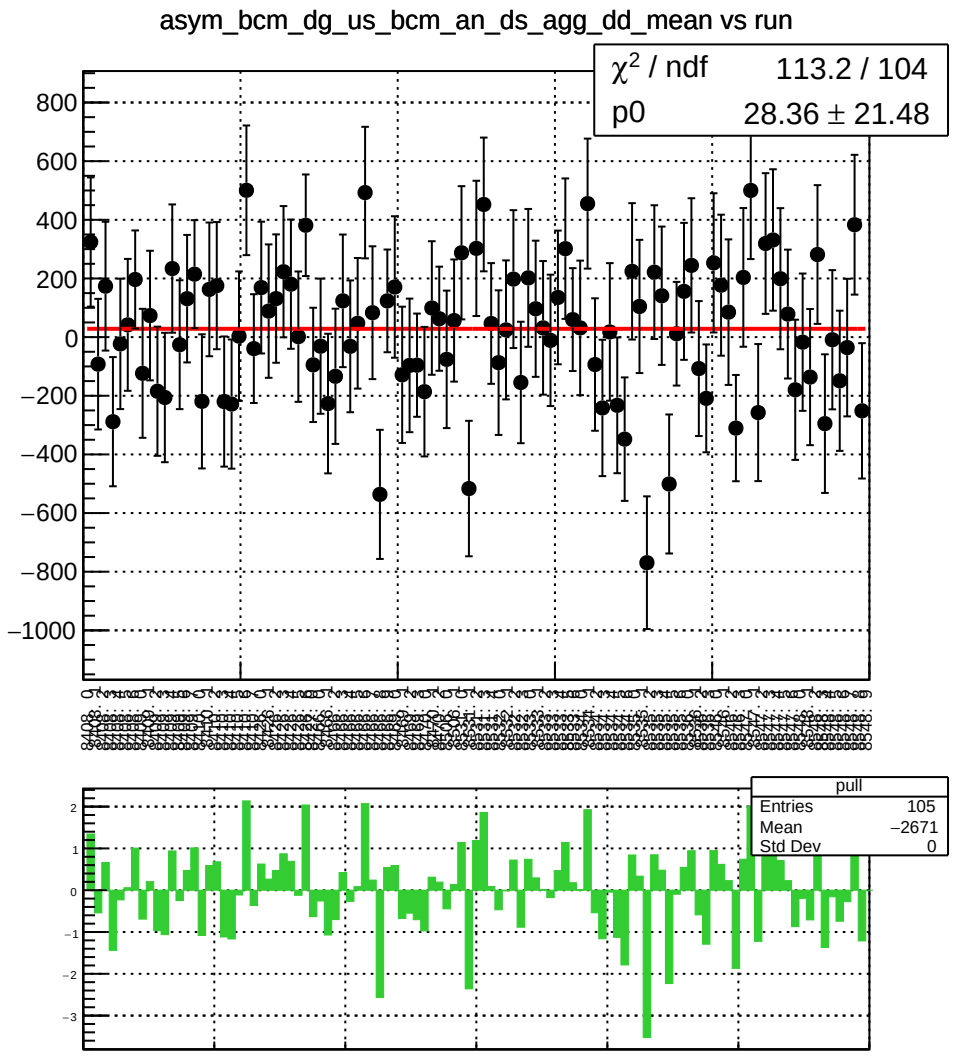

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 100.7 / 104
p0 −4.535 ± 10.14
300
200
100
0
−100
−200
−300
−400
pull
Entries 105
Mean 89.02
Std Dev 20.27
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

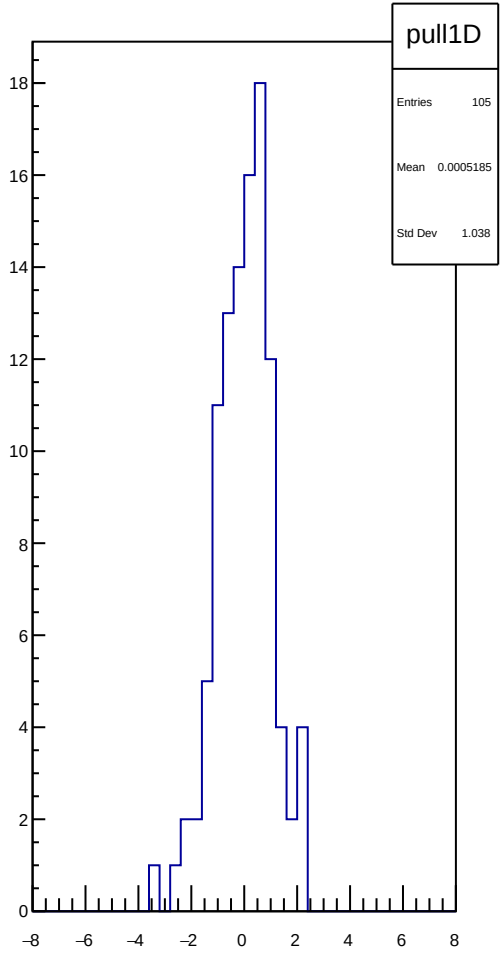

pull1D
Entries 105
Mean 0.009242
Std Dev 0.9795
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

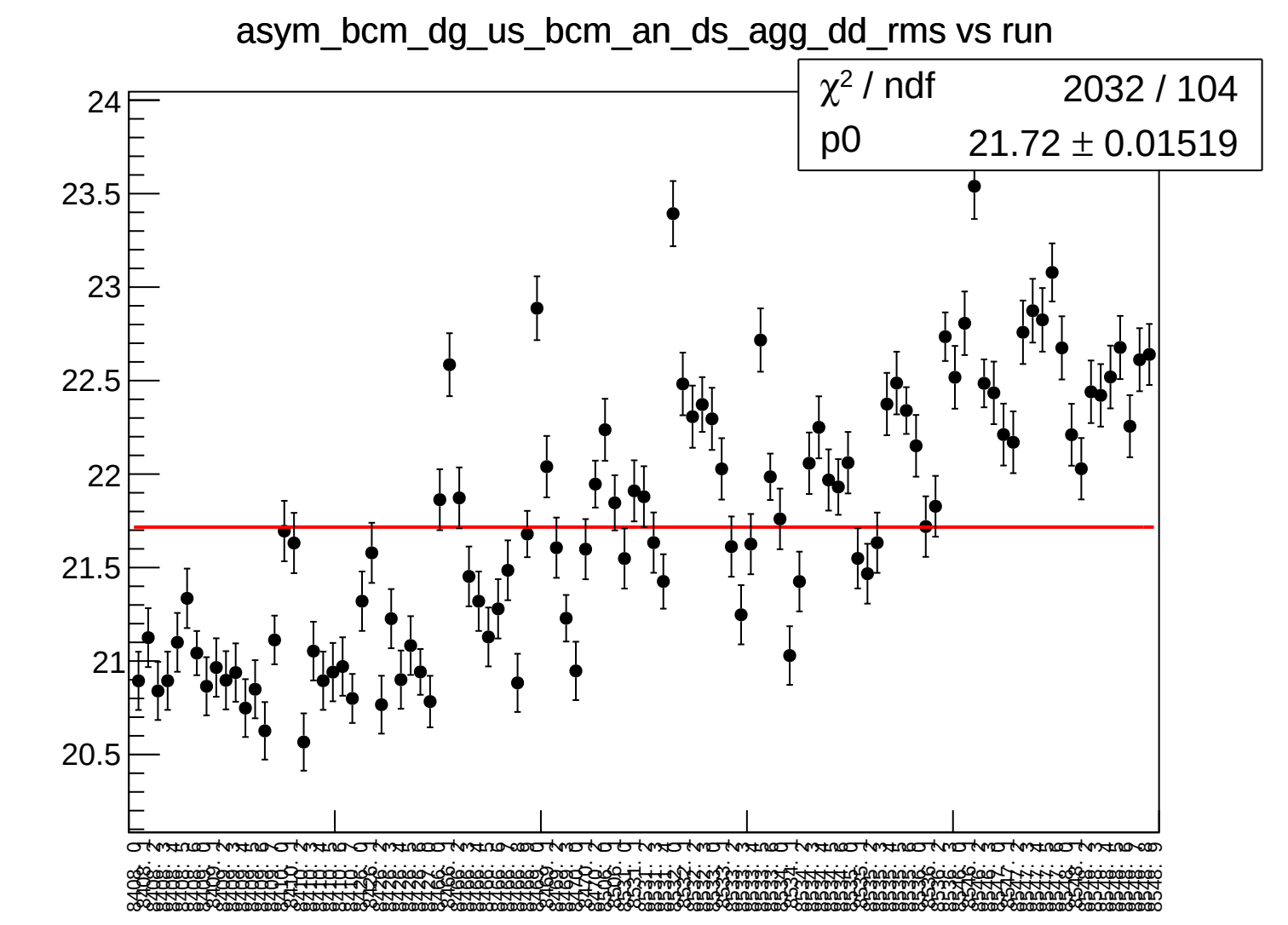

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 1.743e+04 / 104
p0 10.22 ± 0.007173
13
12
11
10
9

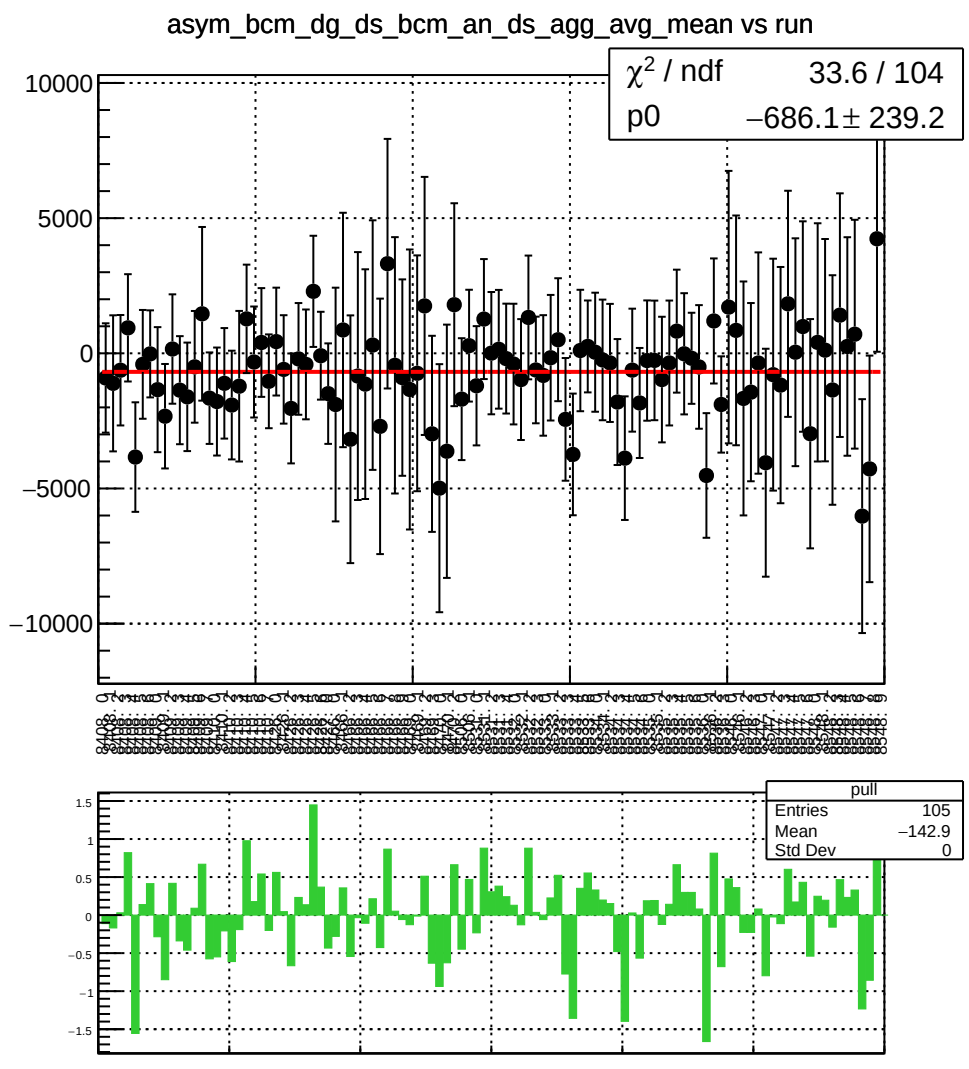

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 33.92 / 104
p0 −675.8 ± 239.6
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
pull
Entries 105
Mean −7.662
Std Dev 62
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 105
Mean −0.002487
Std Dev 0.5683
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

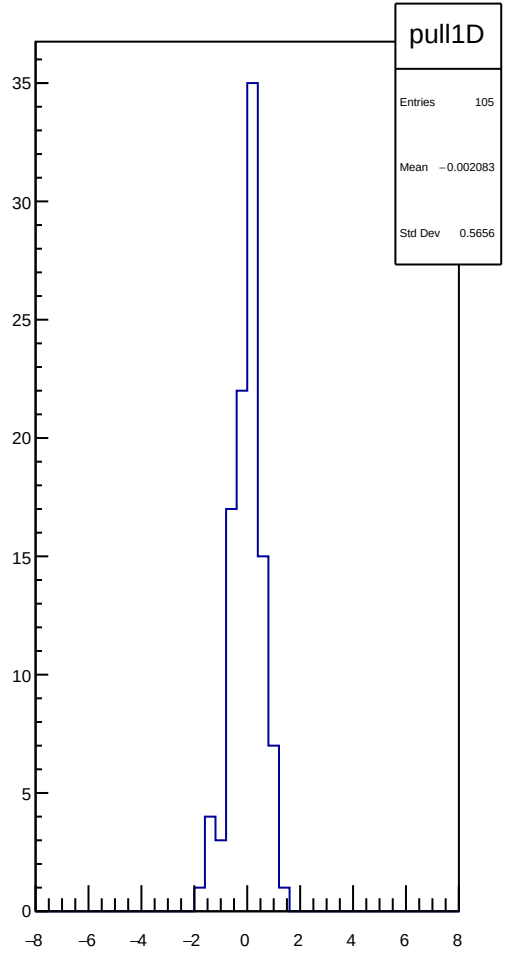

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.772e+05 / 104
p0 231.6 ± 0.1694
500
450
400
350
300
250
200

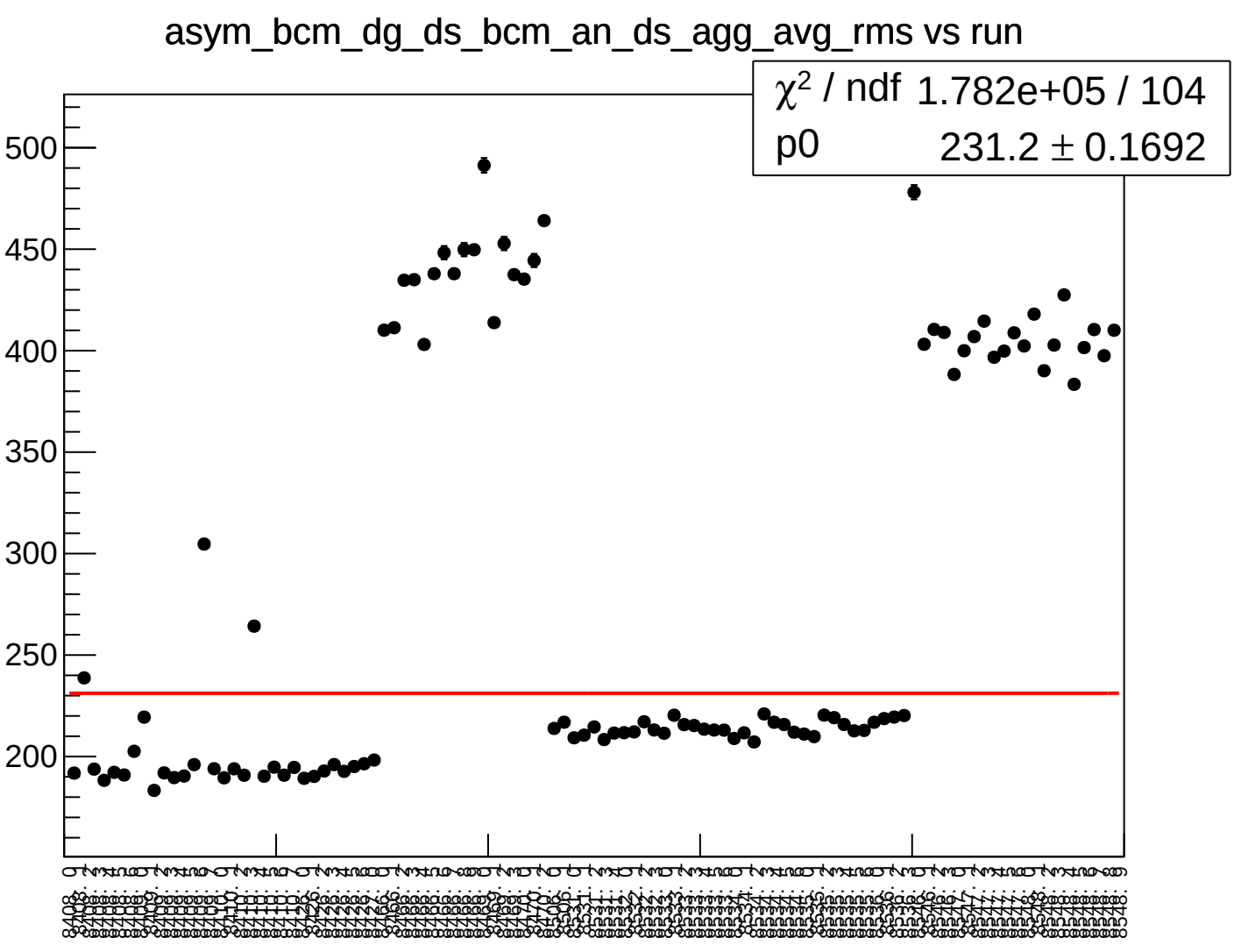

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 113.2 / 104
p0 28.36 ± 21.48
800
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 105
Mean −2671
Std Dev 0
2
1
0
−1
−2
−3

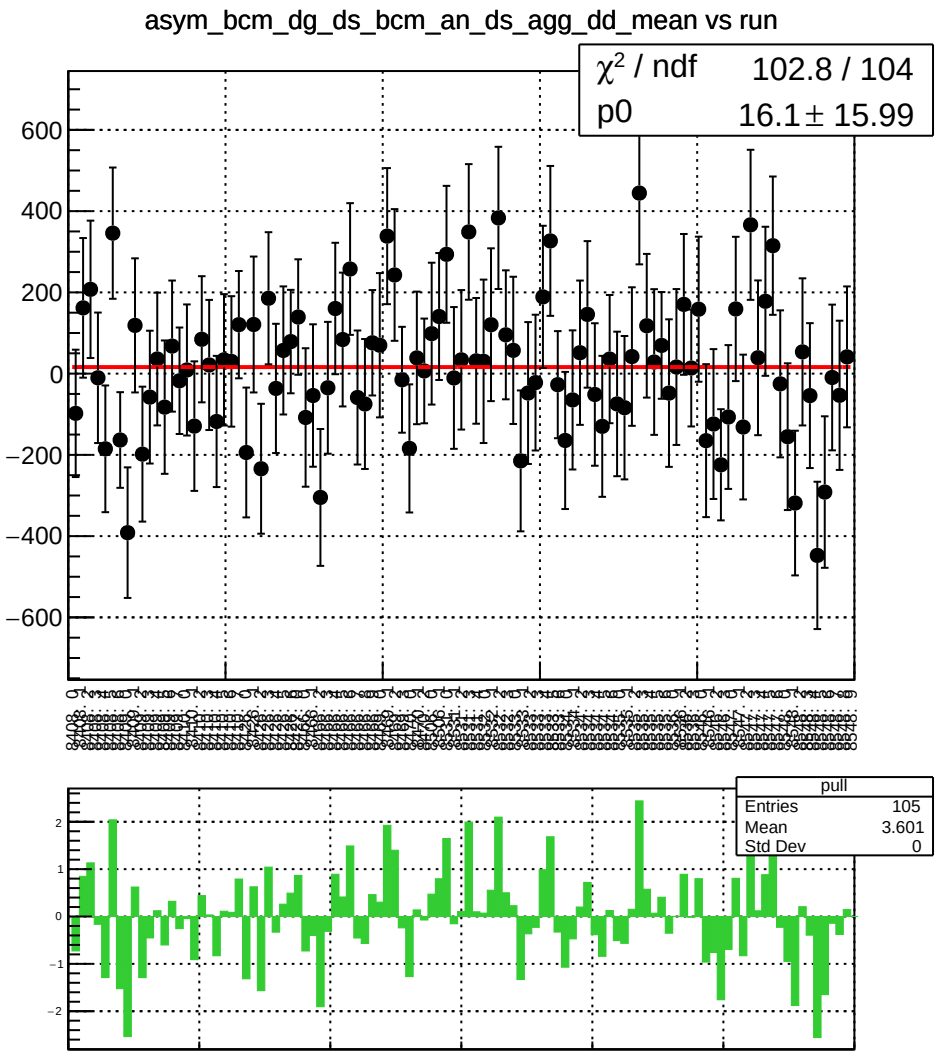

pull1D
Entries 105
Mean 0.0005185
Std Dev 1.038
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

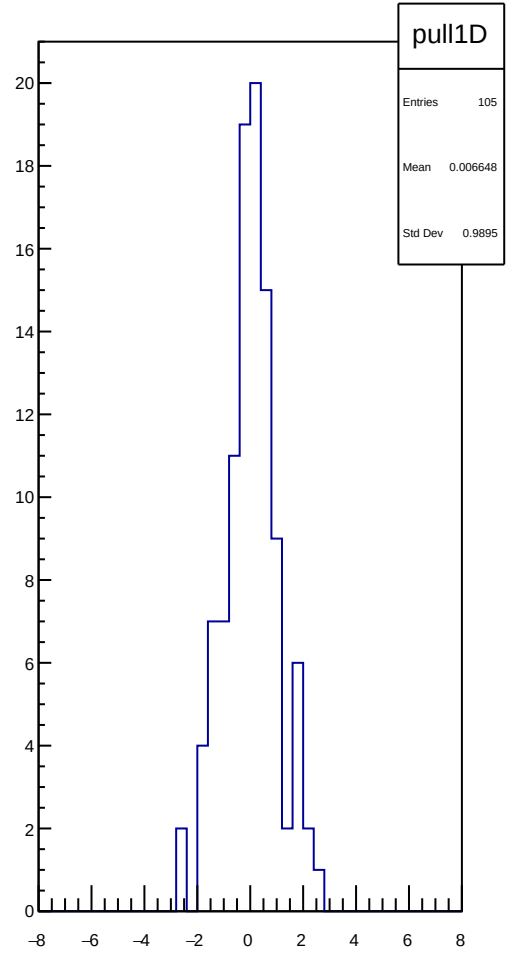

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2032 / 104
p0 21.72 ± 0.01519
24
23.5
23
22.5
22
21.5
21
20.5

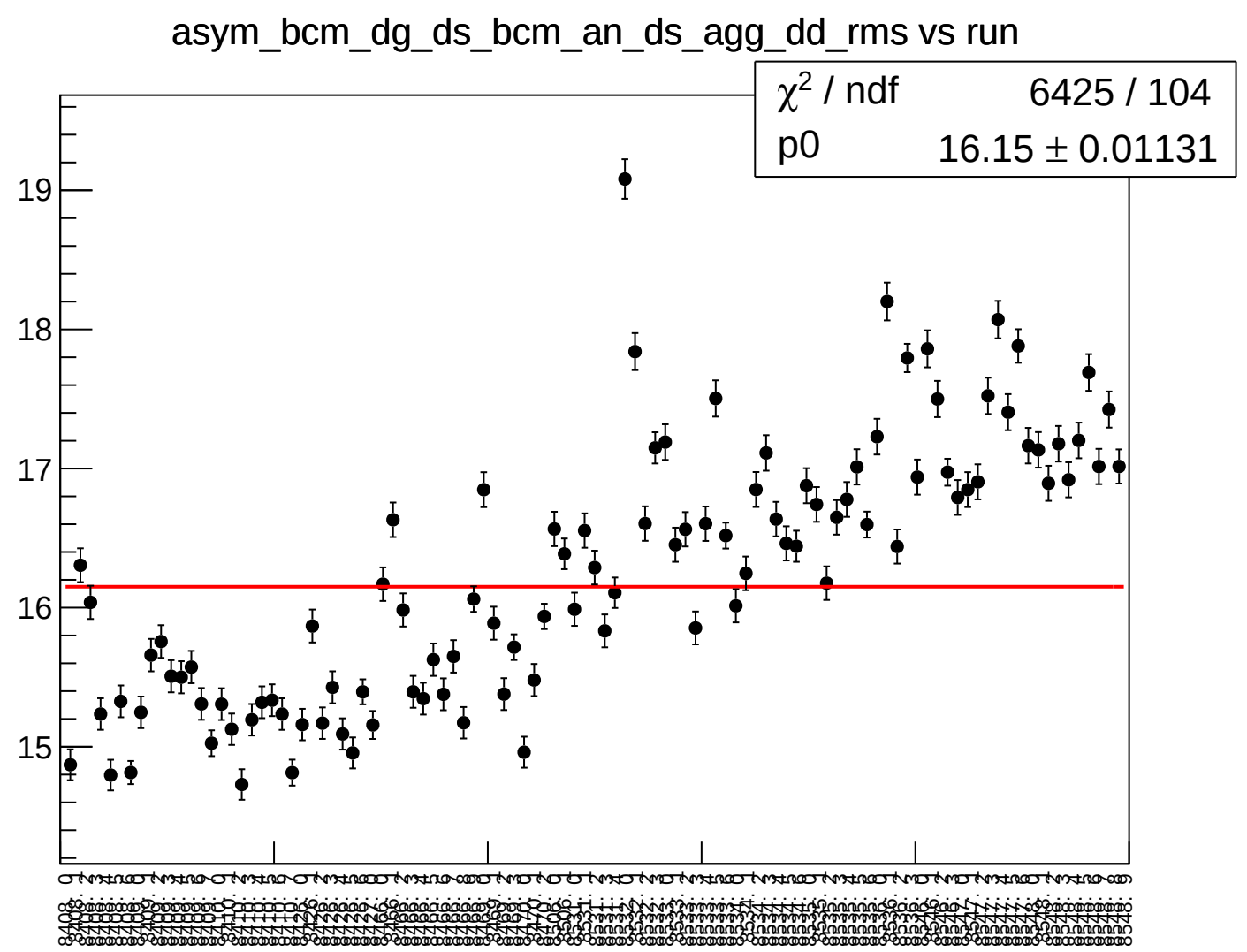

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 33.6 / 104
p0 −686.1± 239.2
10000
5000
0
−5000
−10000
pull
Entries 105
Mean −142.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

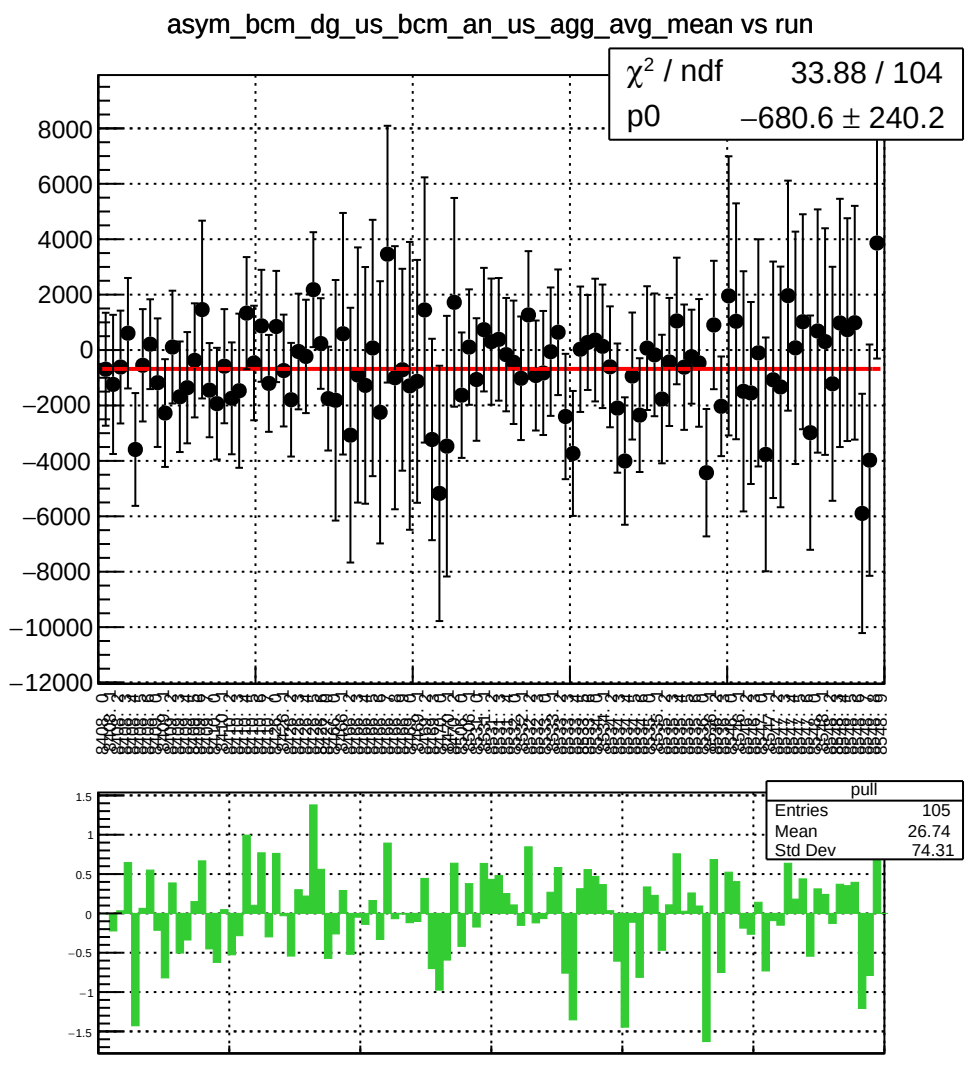

pull1D
Entries 105
Mean −0.002083
Std Dev 0.5656
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

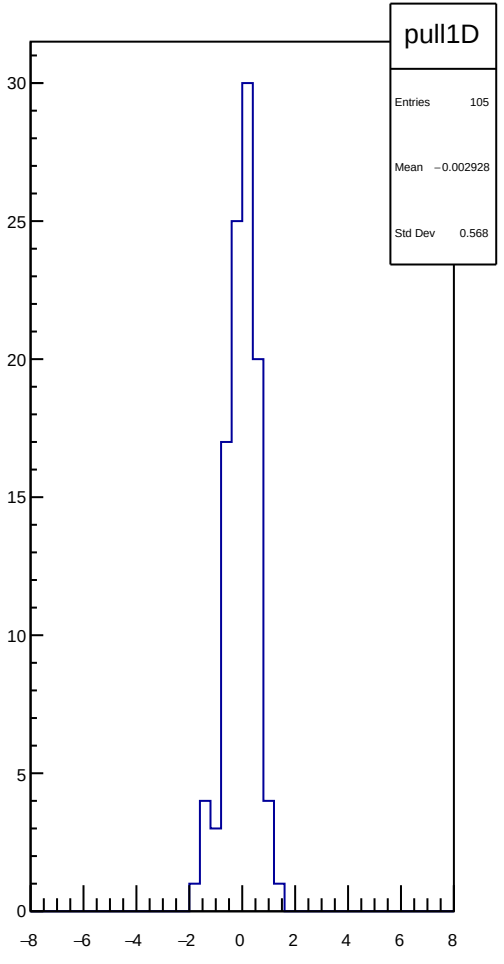

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.782e+05 / 104
p0 231.2 ± 0.1692
500
450
400
350
300
250
200

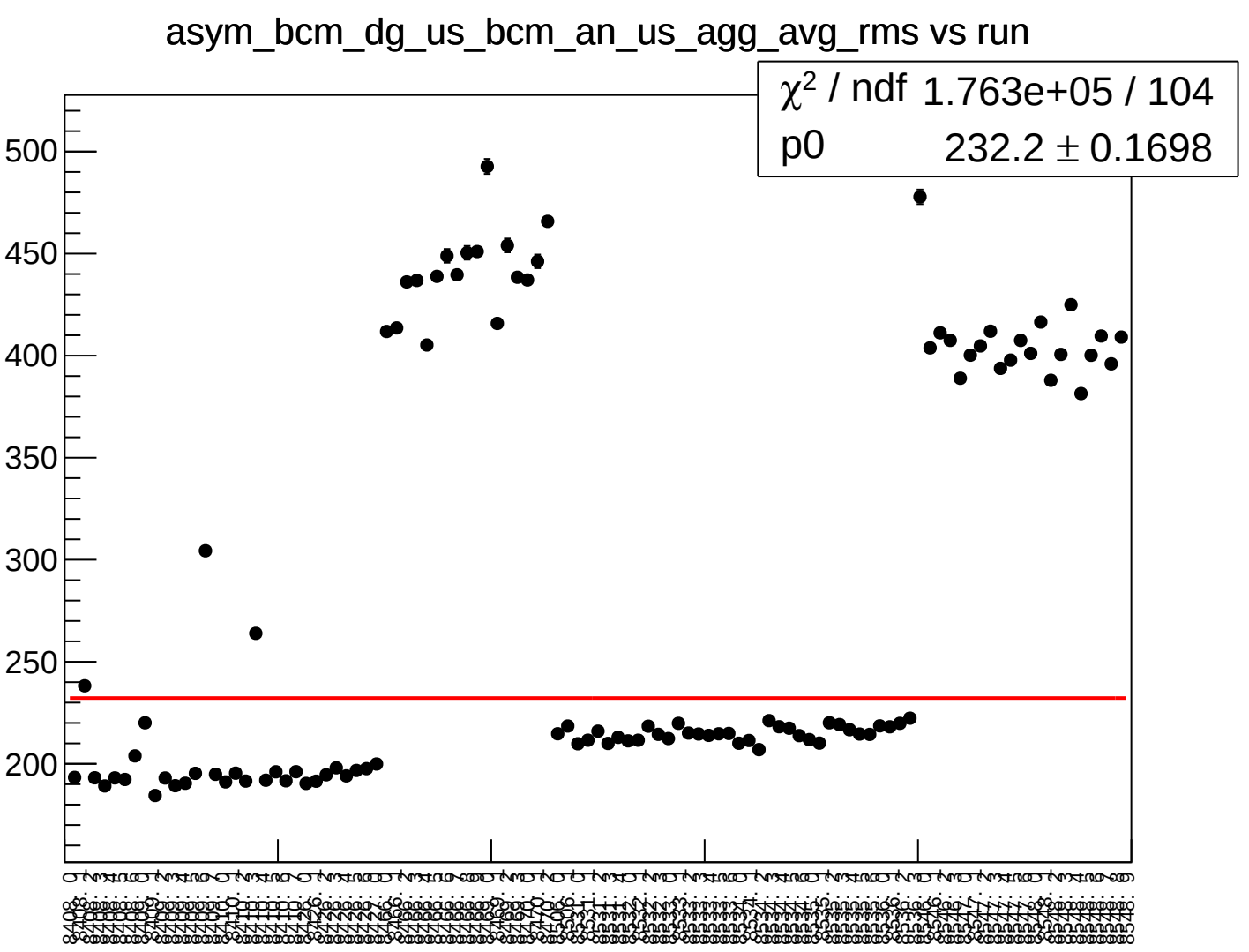

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 102.8 / 104
p0 16.1 ± 15.99
600
400
200
0
−200
−400
−600
pull
Entries 105
Mean 3.601
Std Dev 0
2
1
0
−1
−2

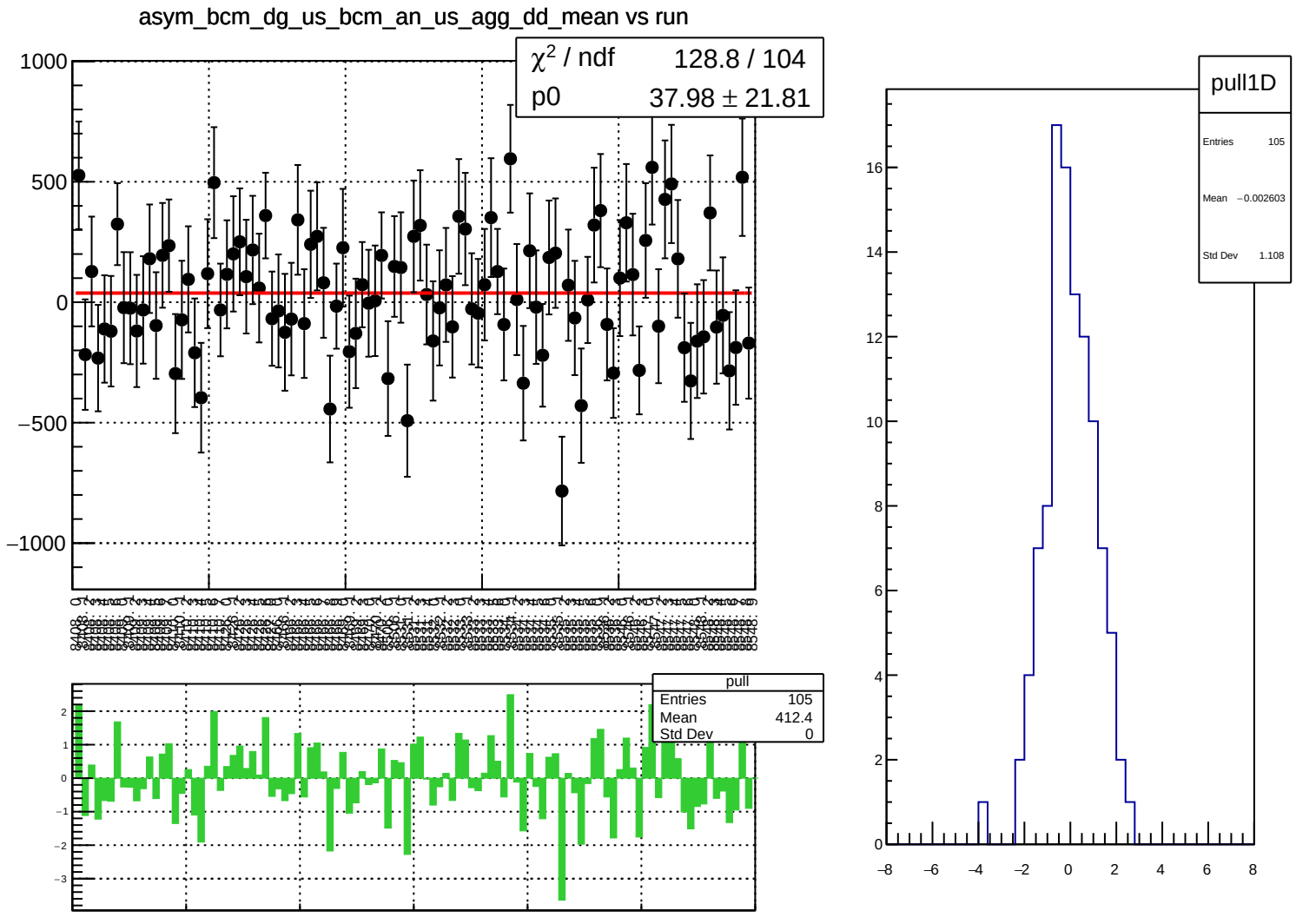

pull1D
Entries 105
Mean 0.006648
Std Dev 0.9895
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

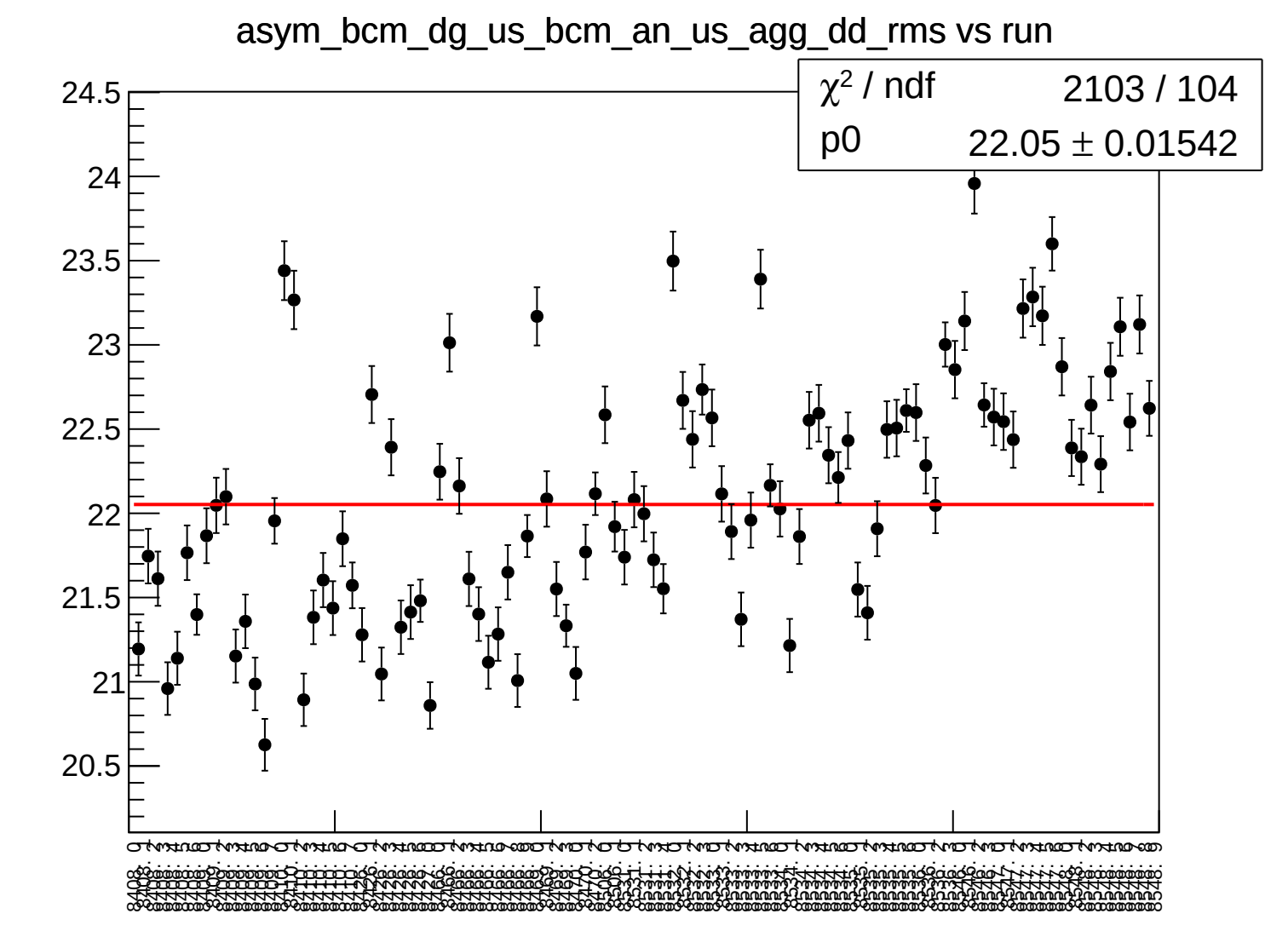

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 6425 / 104
p0 16.15 ± 0.01131
19
18
17
16
15

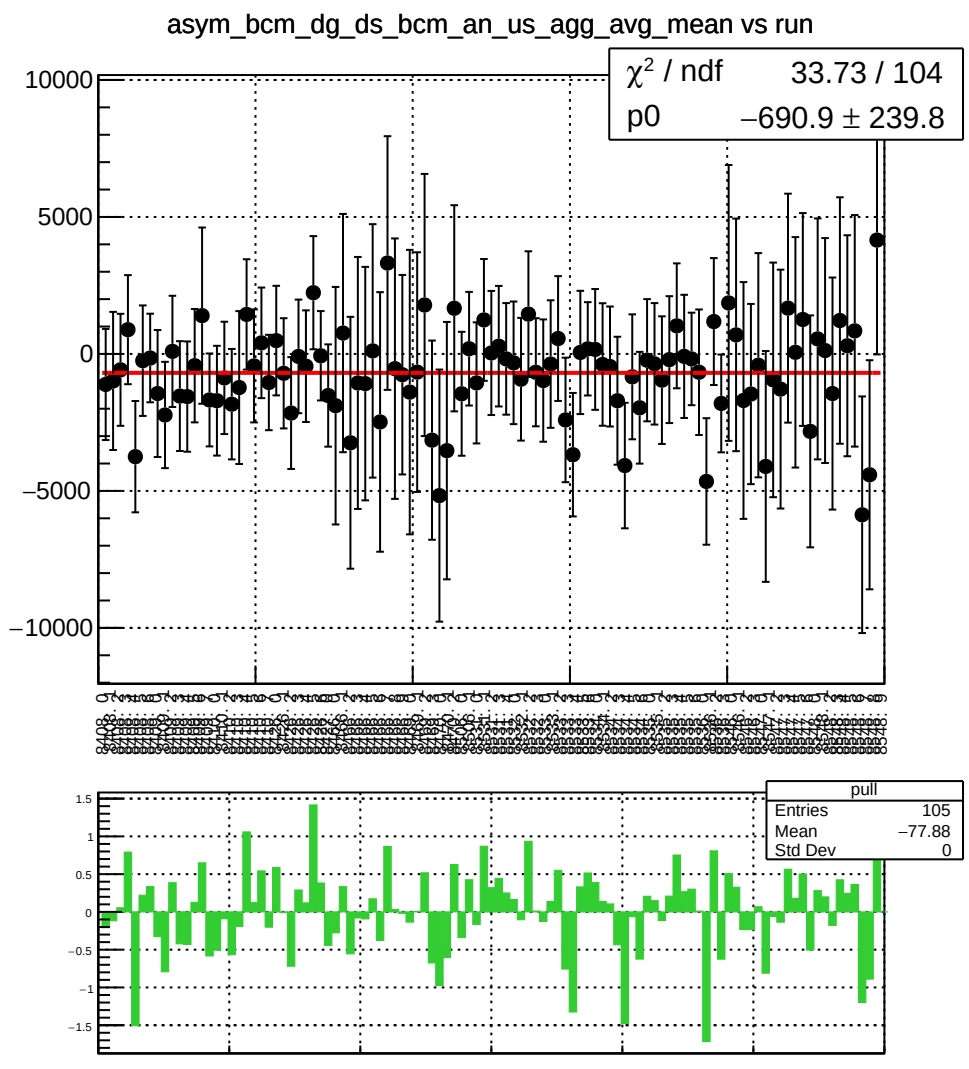

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 33.88 / 104
p0 −680.6 ± 240.2
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
pull
Entries 105
Mean 26.74
Std Dev 74.31
1.5
1
0.5
0
−0.5
−1
−1.5

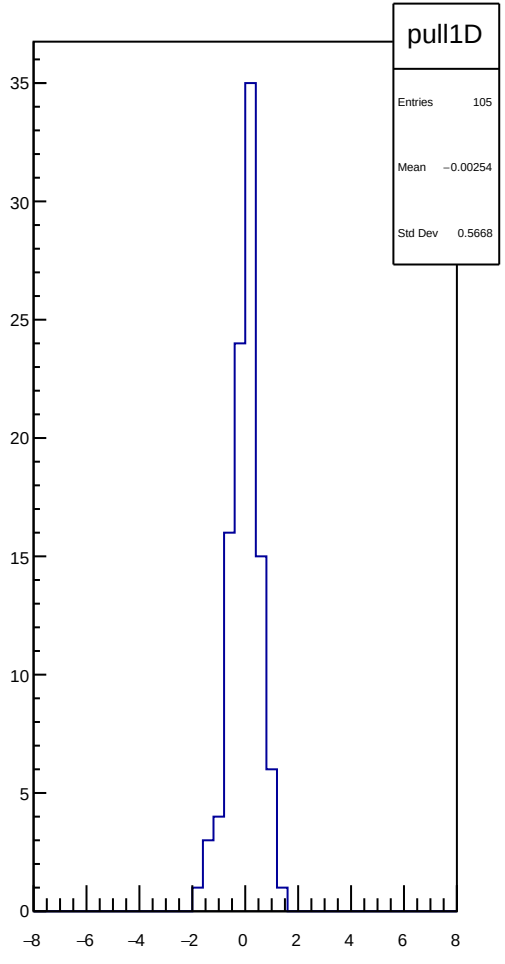

pull1D
Entries 105
Mean −0.002928
Std Dev 0.568
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1.763e+05 / 104
p0 232.2 ± 0.1698
500
450
400
350
300
250
200


asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 128.8 / 104
p0 37.98 ± 21.81
1000
500
0
−500
−1000
pull
Entries 105
Mean 412.4
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 105
Mean −0.002603
Std Dev 1.108
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2103 / 104
p0 22.05 ± 0.01542
24.5
24
23.5
23
22.5
22
21.5
21
20.5


asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 33.73 / 104
p0 −690.9 ± 239.8
10000
5000
0
−5000
−10000
pull
Entries 105
Mean −77.88
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 105
Mean −0.00254
Std Dev 0.5668
35
30
25
20
15
10
5
0
−8
−6
−4
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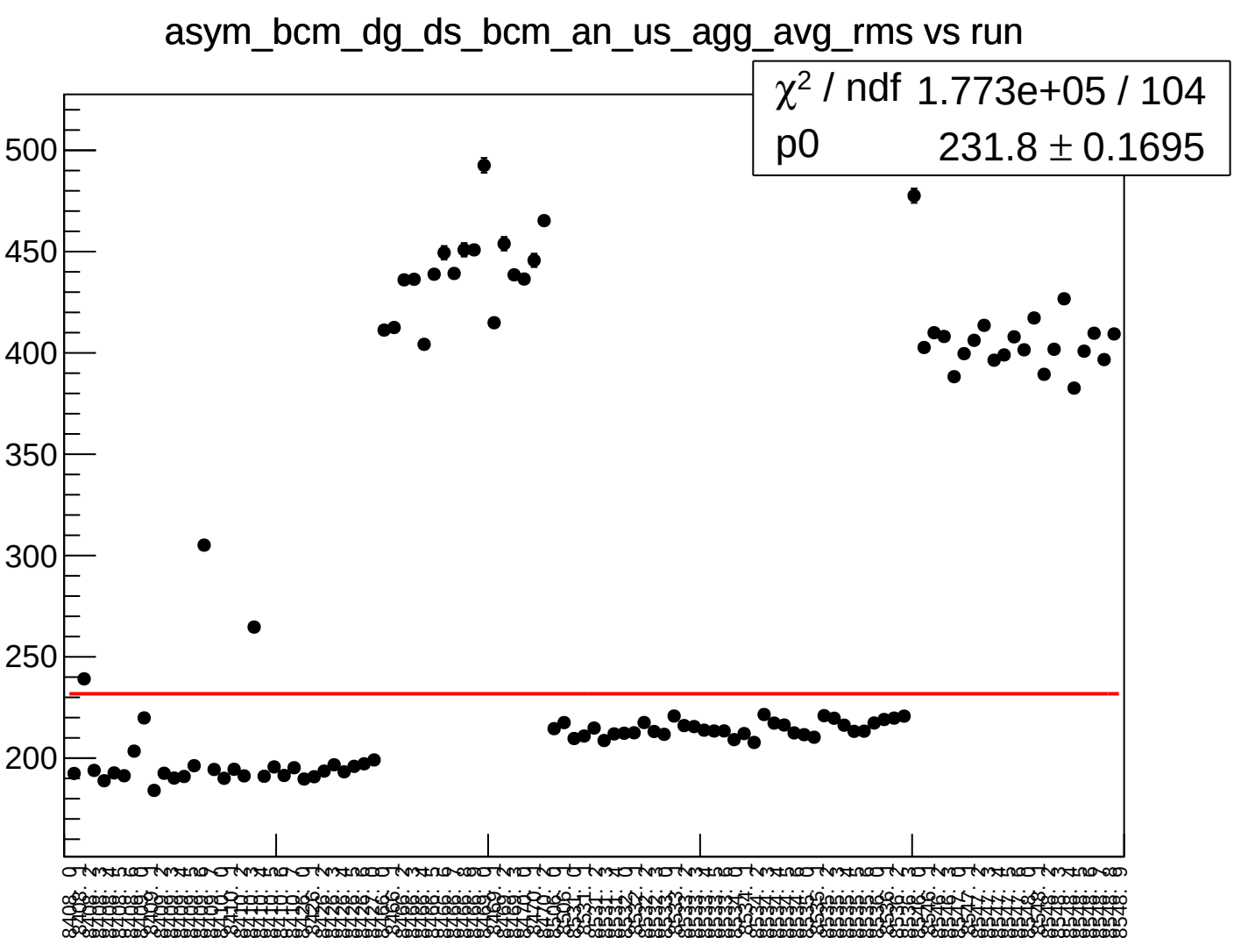
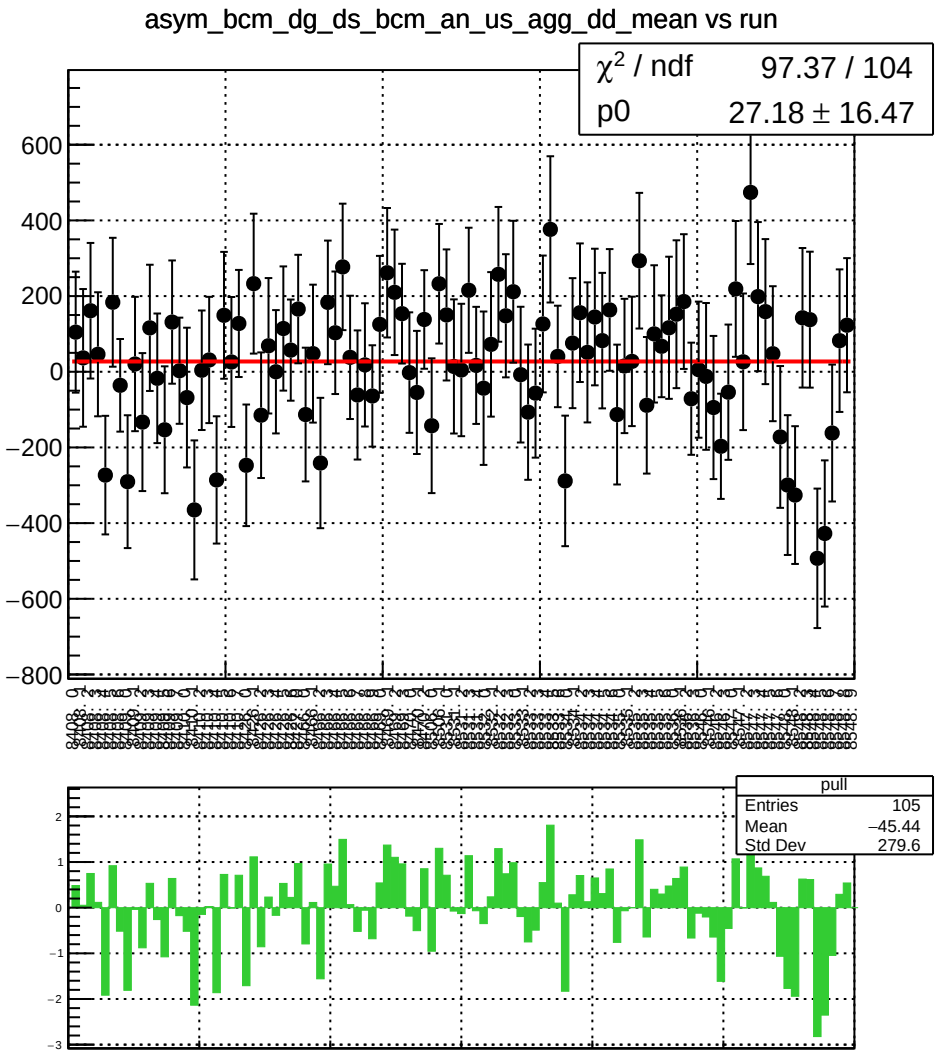
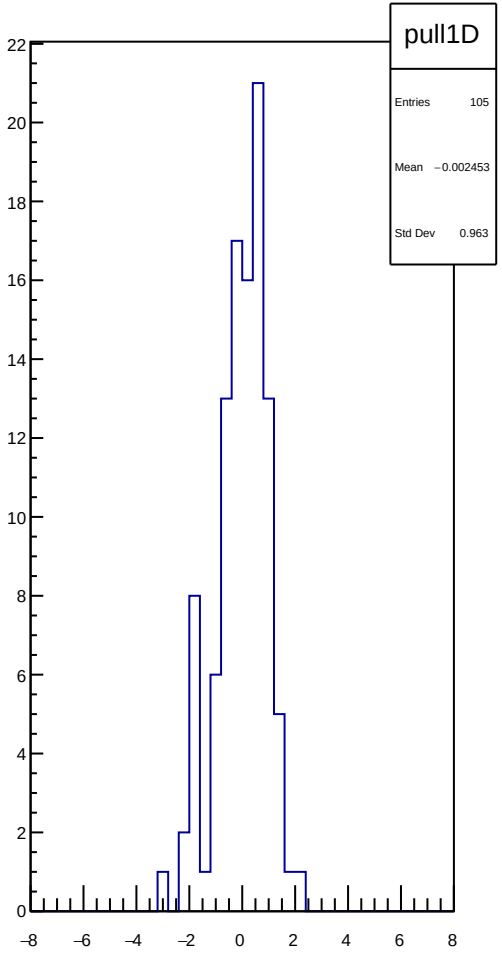
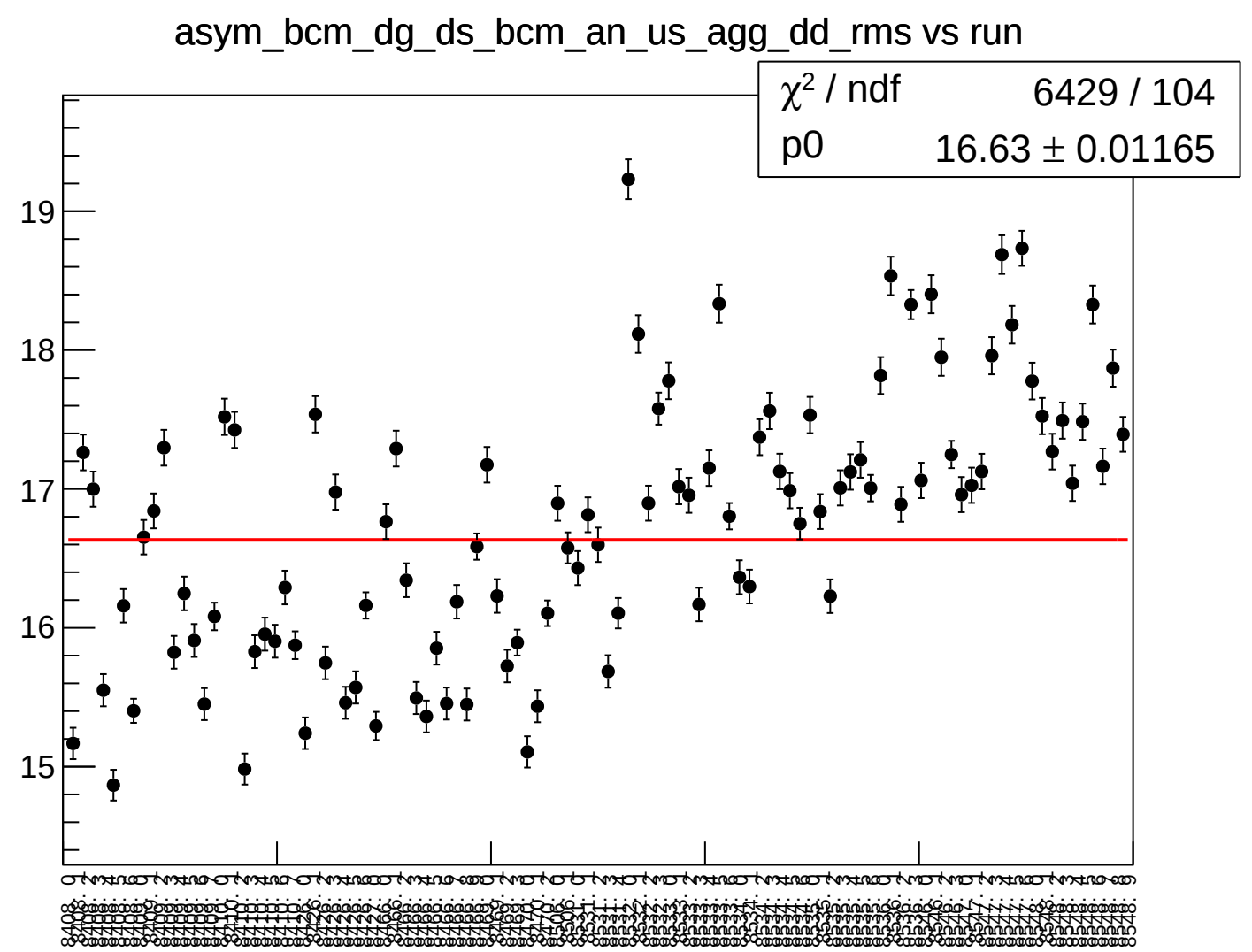
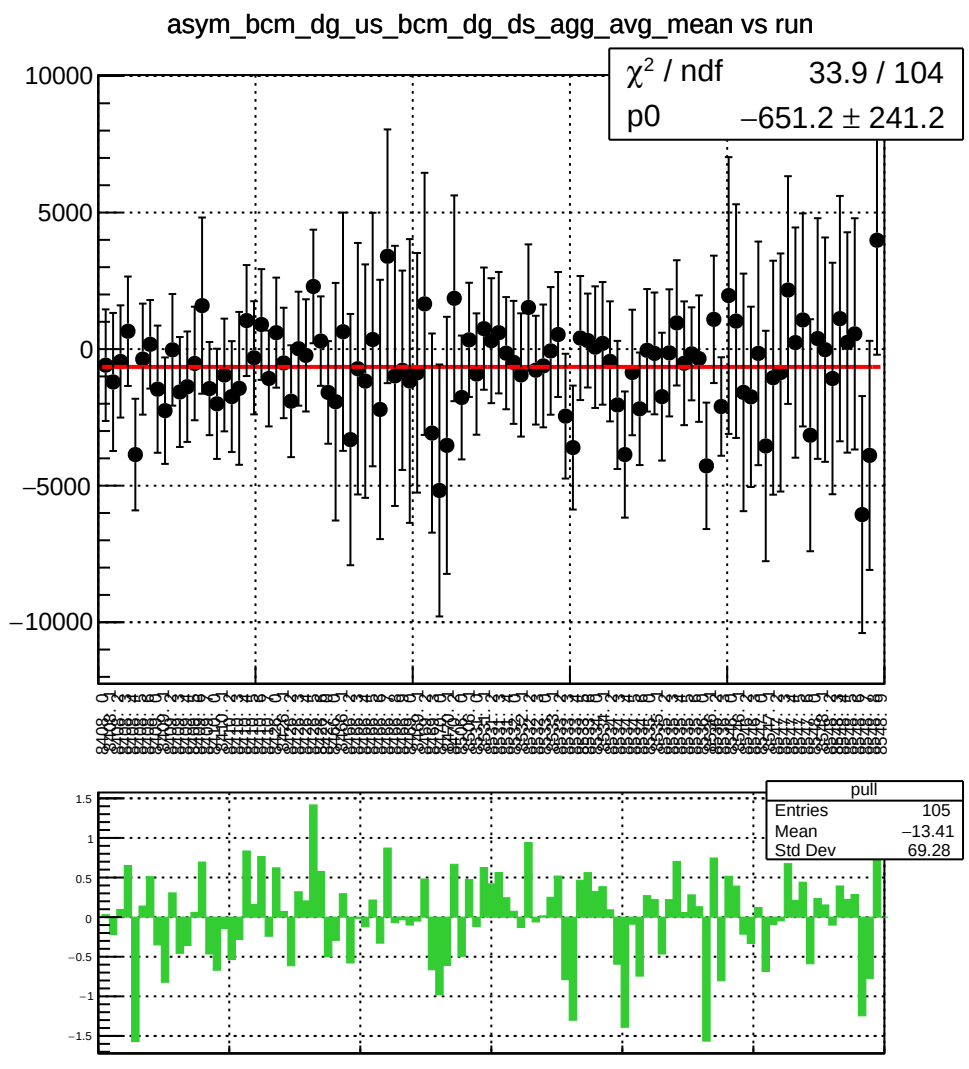
0
2
4
6
8

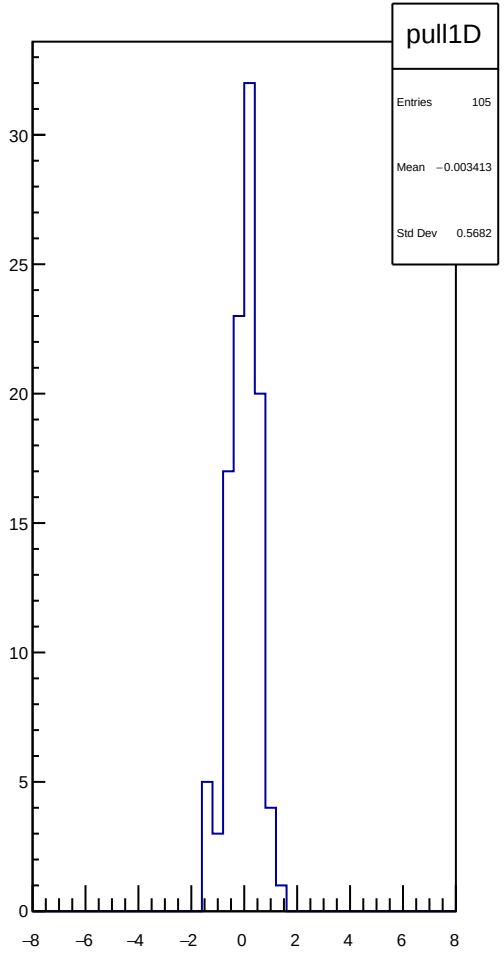

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1.773e+05 / 104
p0 231.8 ± 0.1695
500
450
400
350
300
250
200

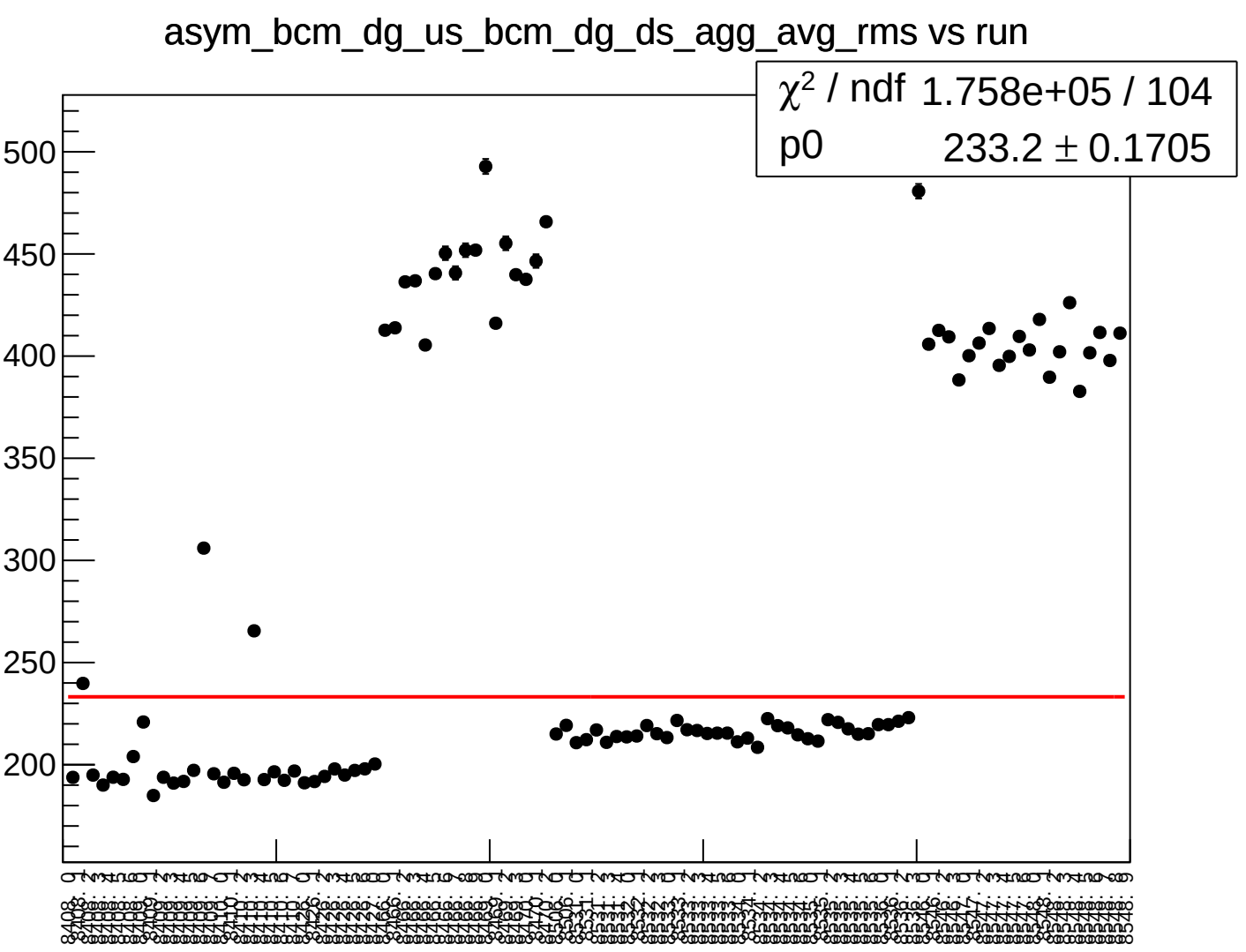

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 97.37 / 104
p0 27.18 ± 16.47
pull
Entries 105
Mean −45.44
Std Dev 279.6

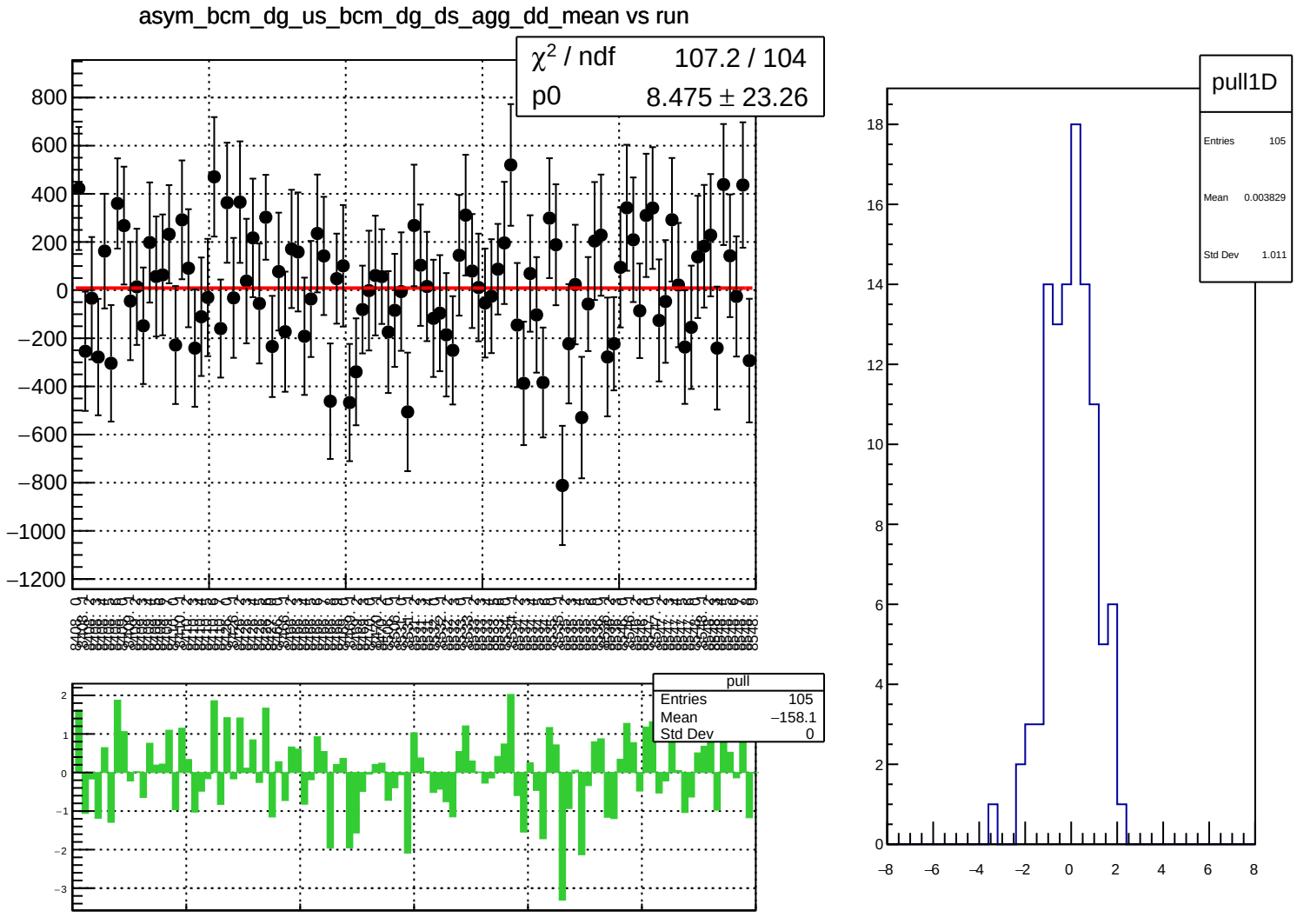

pull1D
Entries 105
Mean −0.002453
Std Dev 0.963

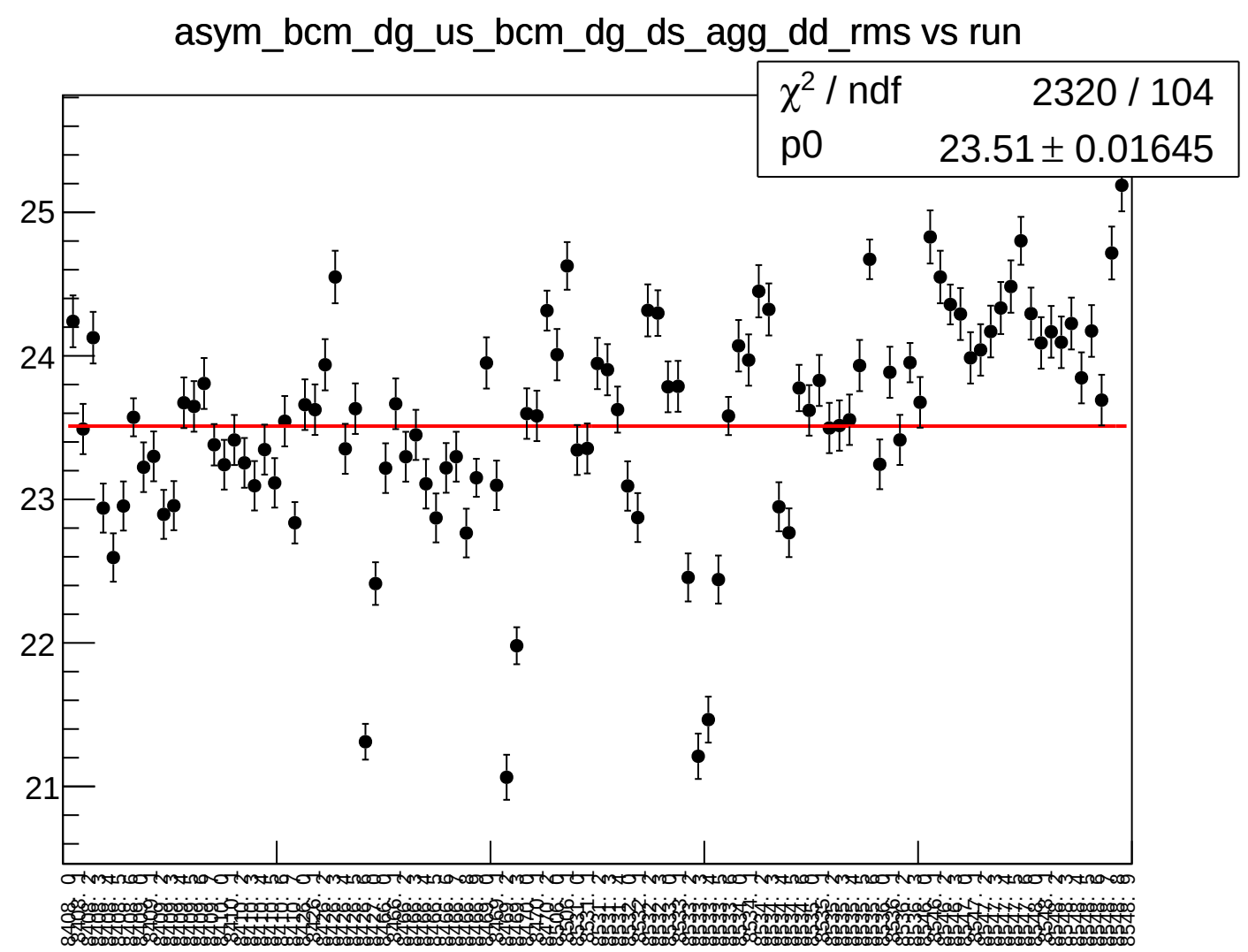

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 6429 / 104
p0 16.63 ± 0.01165
19
18
17
16
15

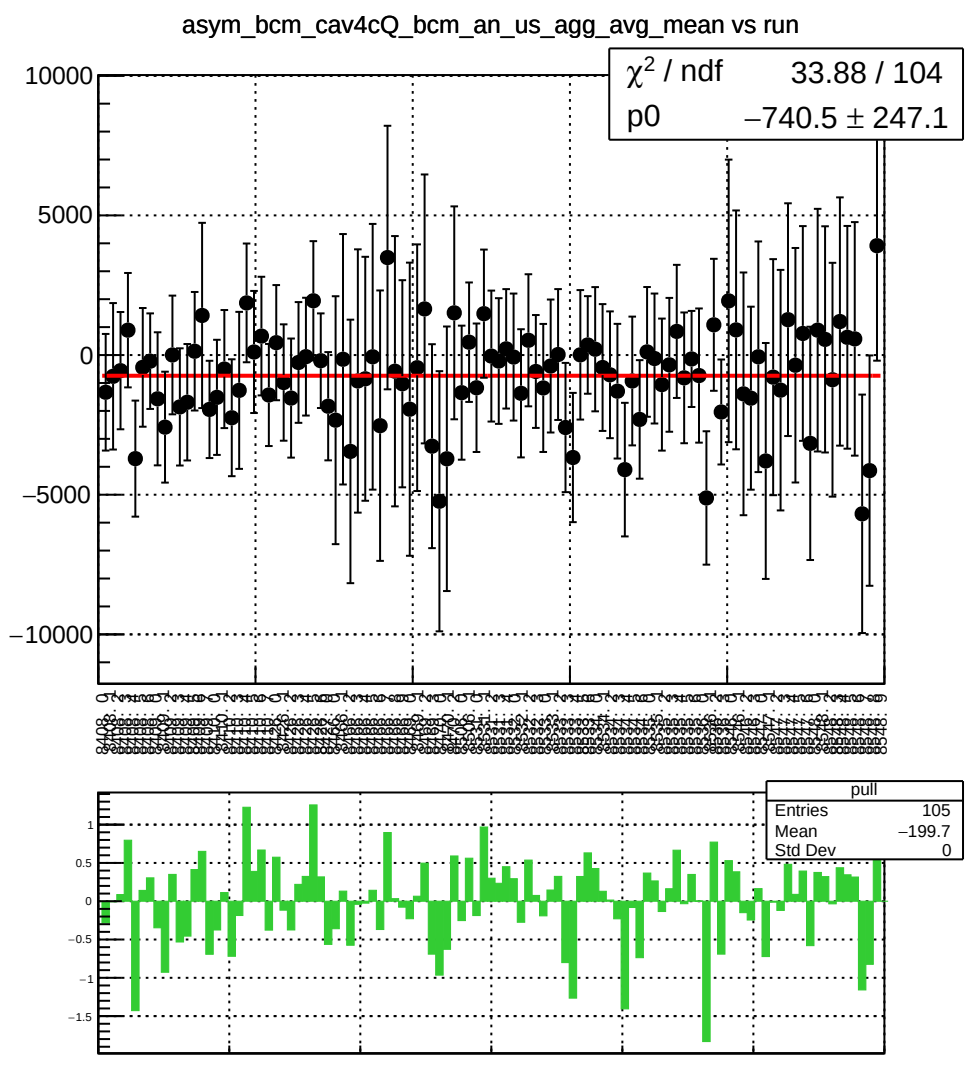

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 33.9 / 104
p0 −651.2 ± 241.2
10000
5000
0
−5000
−10000
pull
Entries 105
Mean −13.41
Std Dev 69.28
1.5
1
0.5
0
−0.5
−1
−1.5

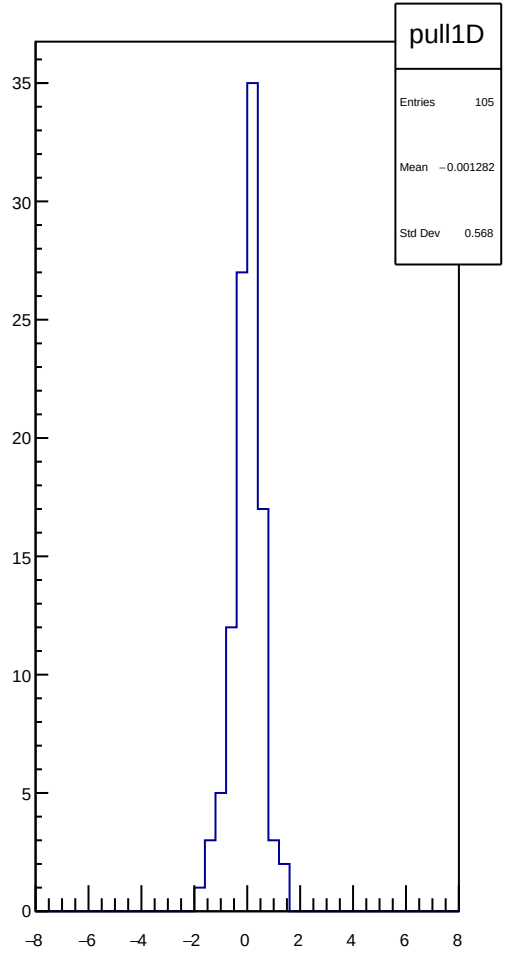

pull1D
Entries 105
Mean −0.003413
Std Dev 0.5682
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

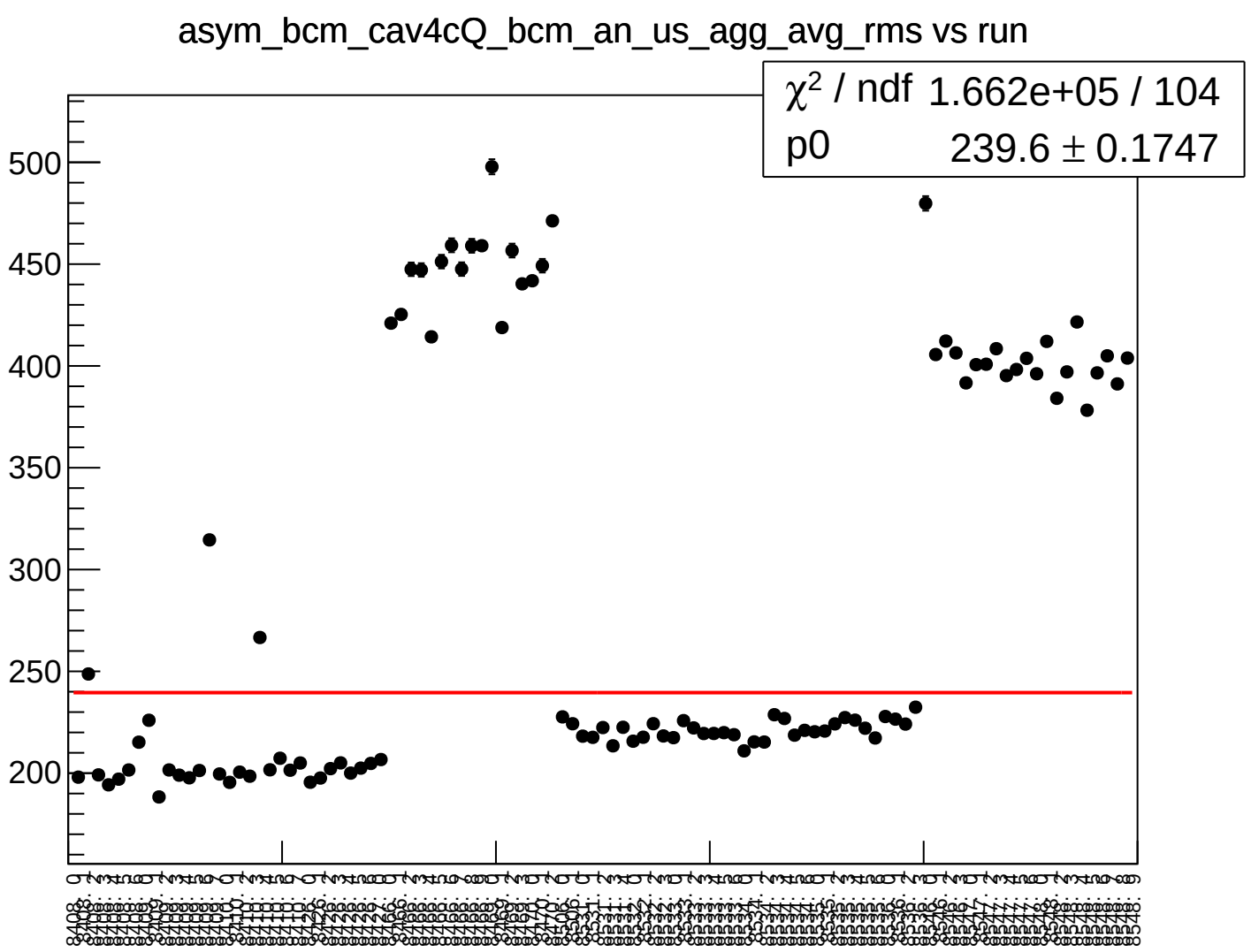

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 1.758e+05 / 104
p0 233.2 ± 0.1705
500
450
400
350
300
250
200

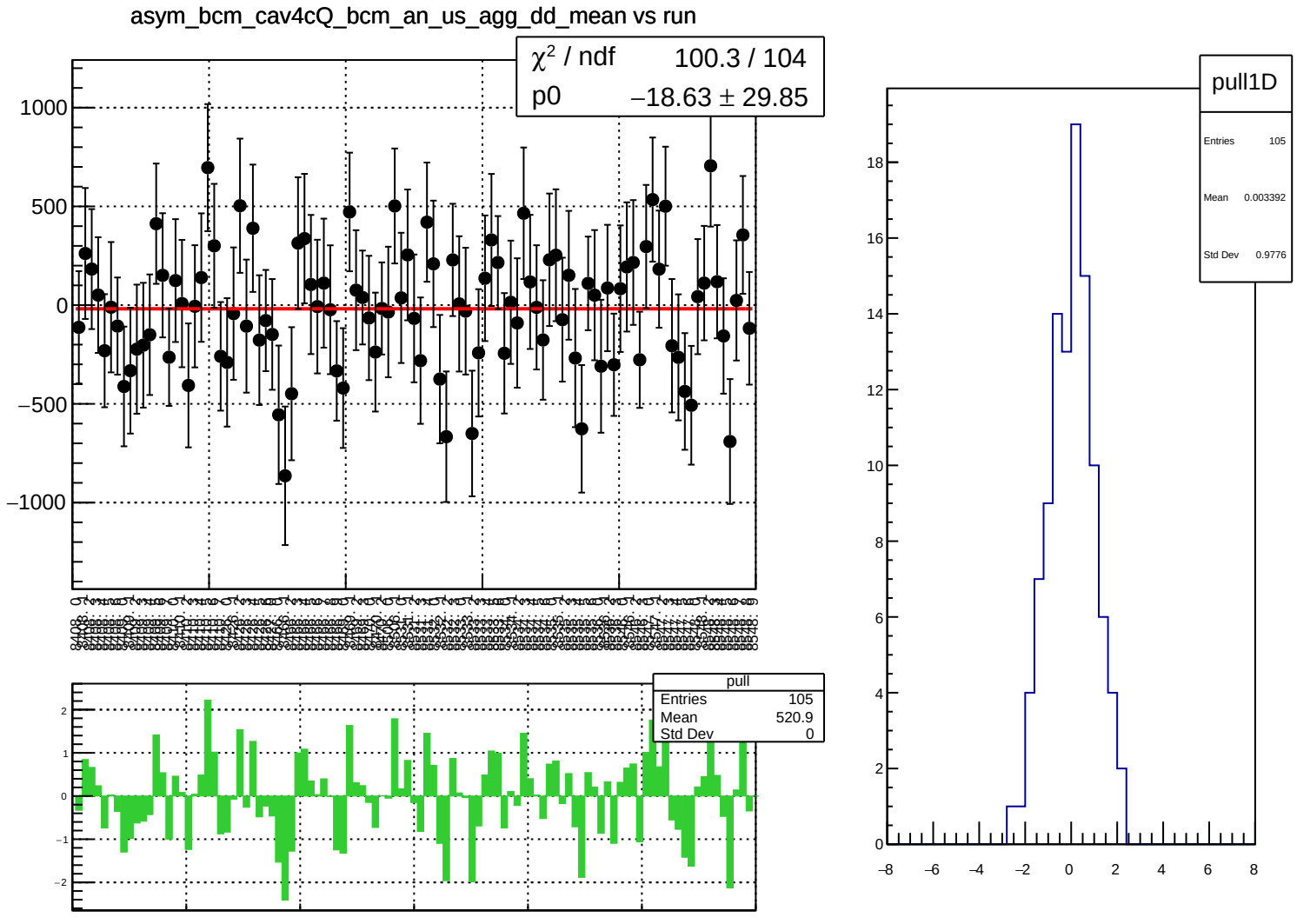

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 107.2 / 104
p0 8.475 ± 23.26
800
600
400
200
0
−200
−400
−600
−800
−1000
−1200
pull
Entries 105
Mean −158.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 105
Mean 0.003829
Std Dev 1.011
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

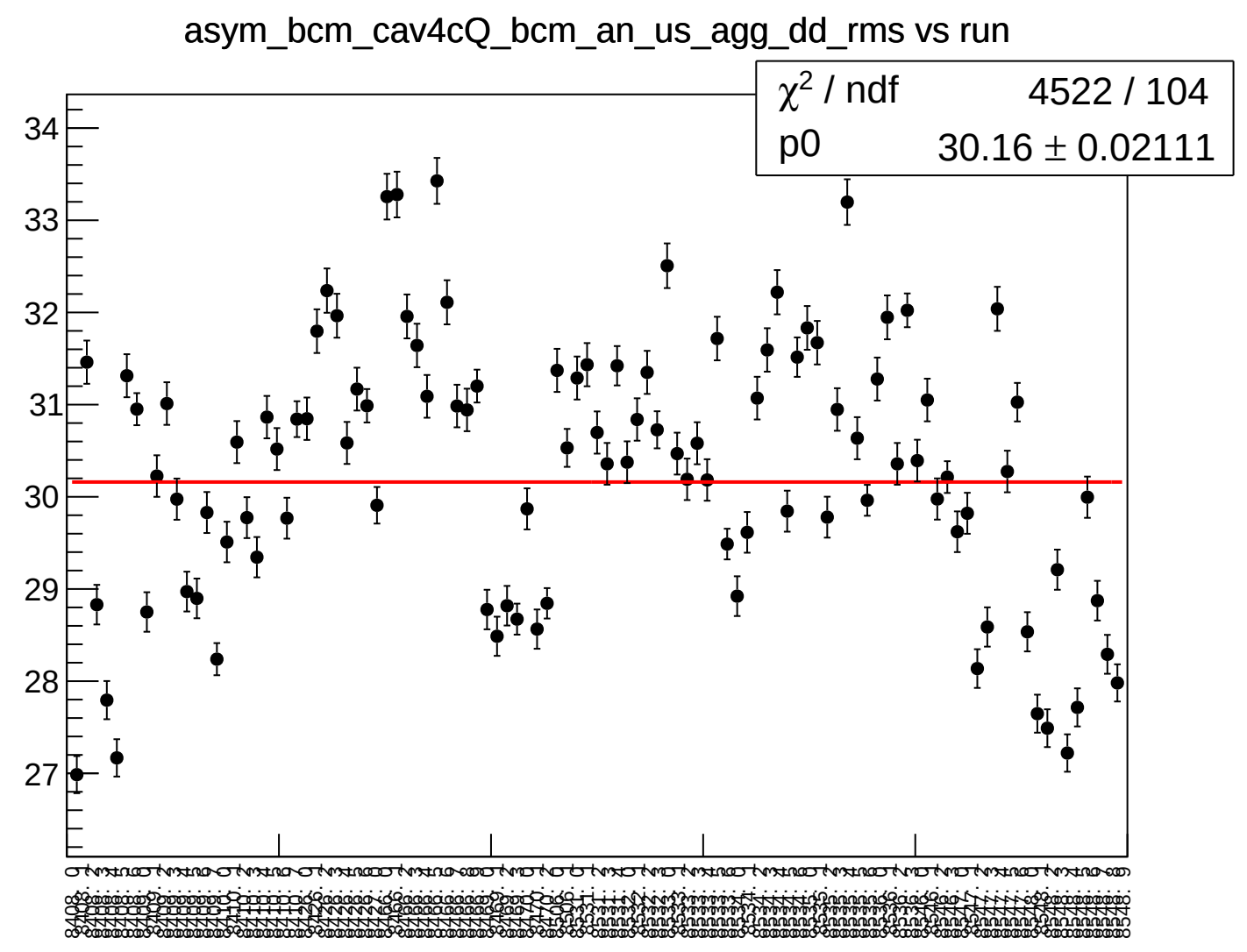

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2320 / 104
p0 23.51 ± 0.01645
25
24
23
22
21

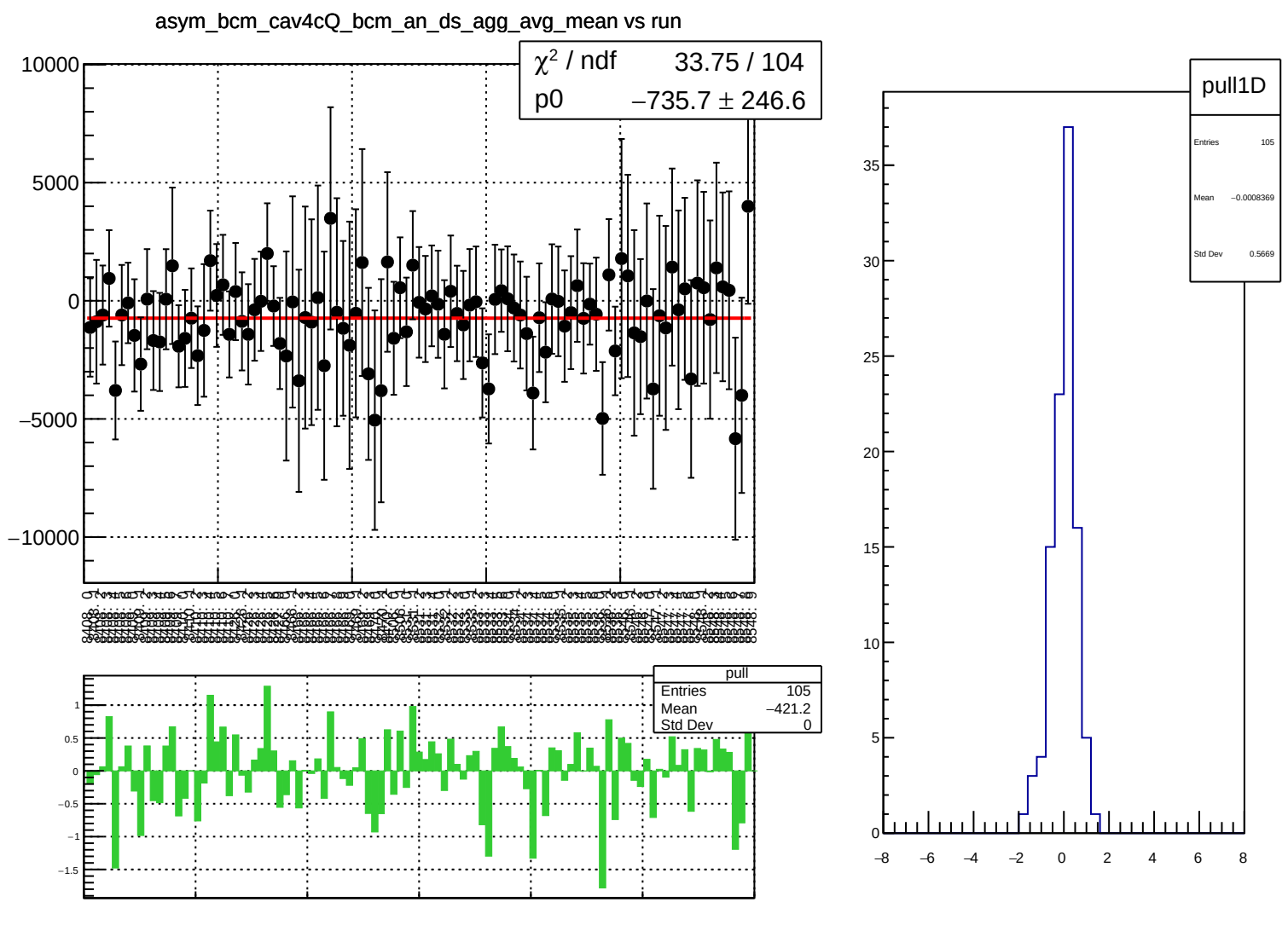

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 33.88 / 104
p0 −740.5 ± 247.1
10000
5000
0
−5000
−10000
pull
Entries 105
Mean −199.7
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

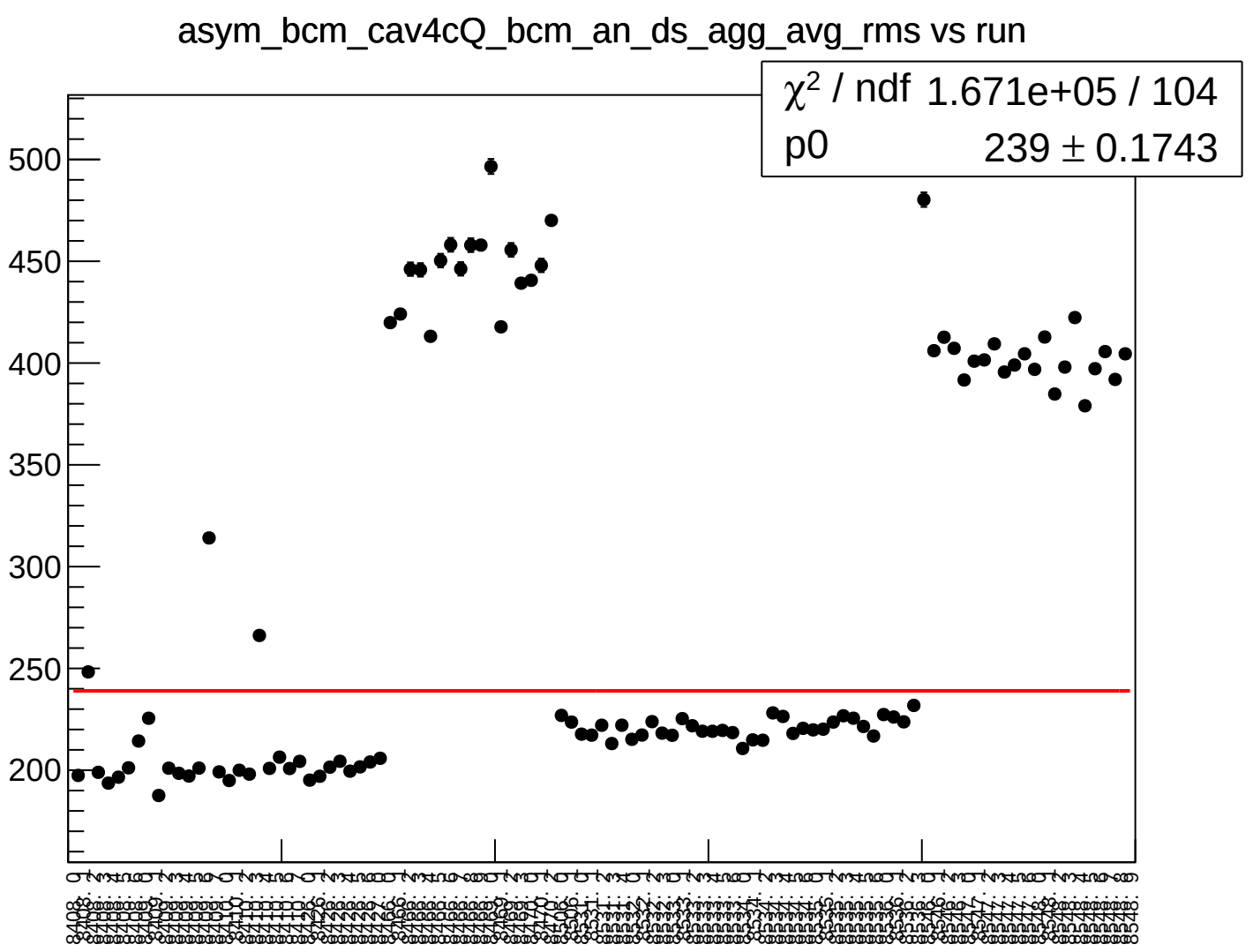

pull1D
Entries 105
Mean −0.001282
Std Dev 0.568
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

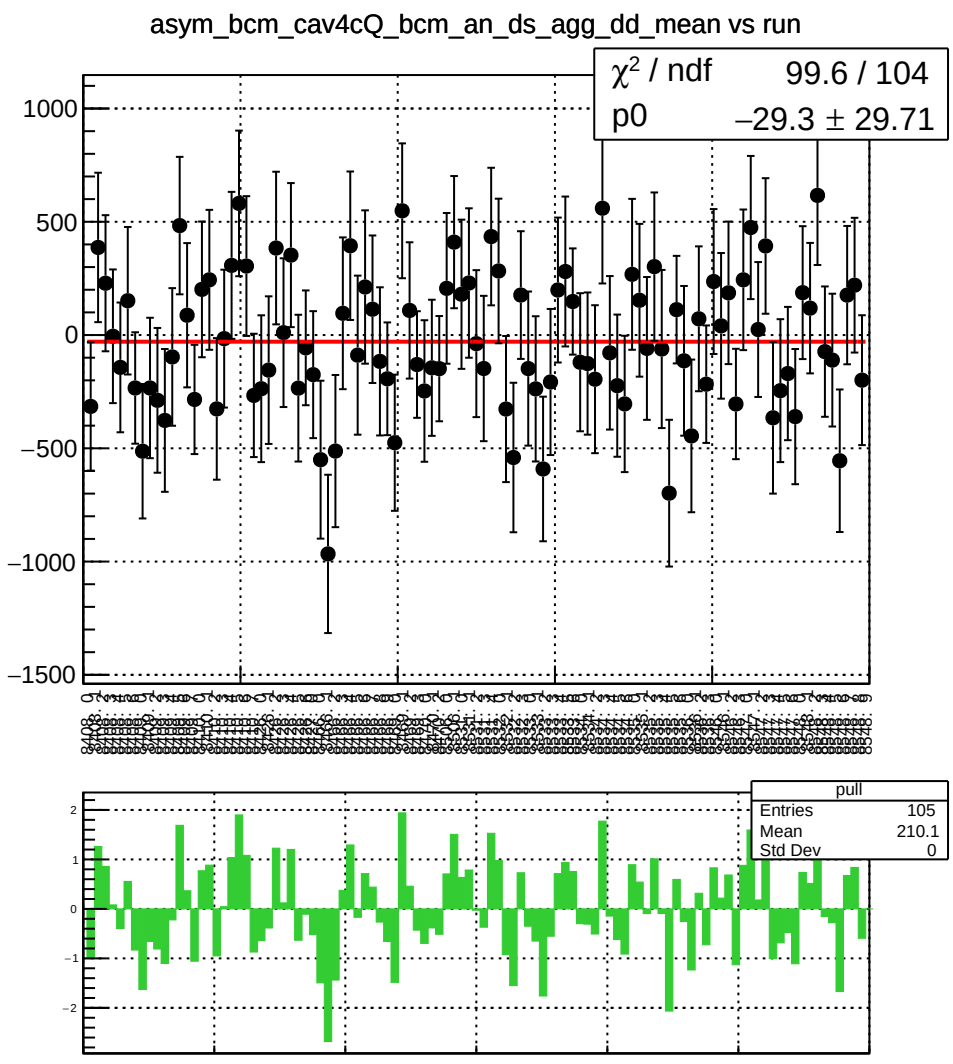

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1.662e+05 / 104
p0 239.6 ± 0.1747
500
450
400
350
300
250
200

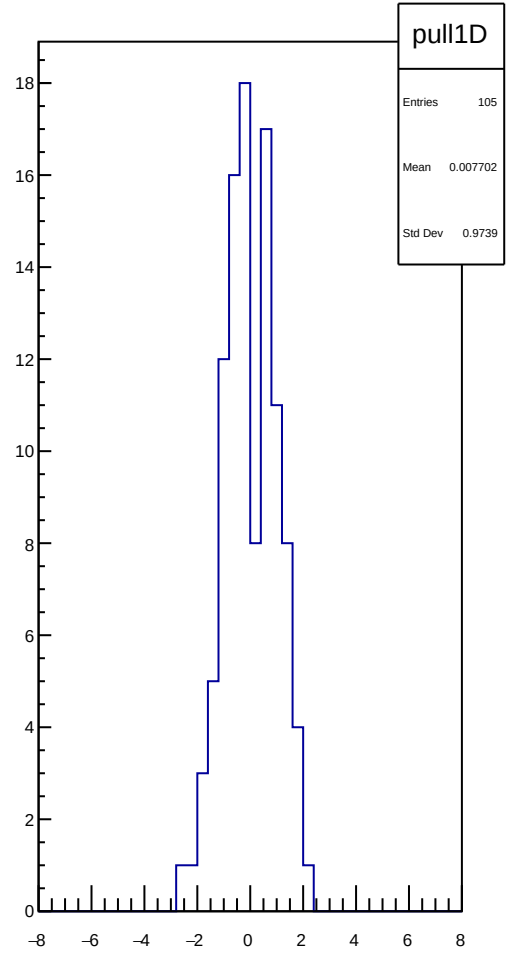

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 100.3 / 104
p0 −18.63 ± 29.85
1000
500
0
−500
−1000
pull
Entries 105
Mean 520.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.003392
Std Dev 0.9776
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

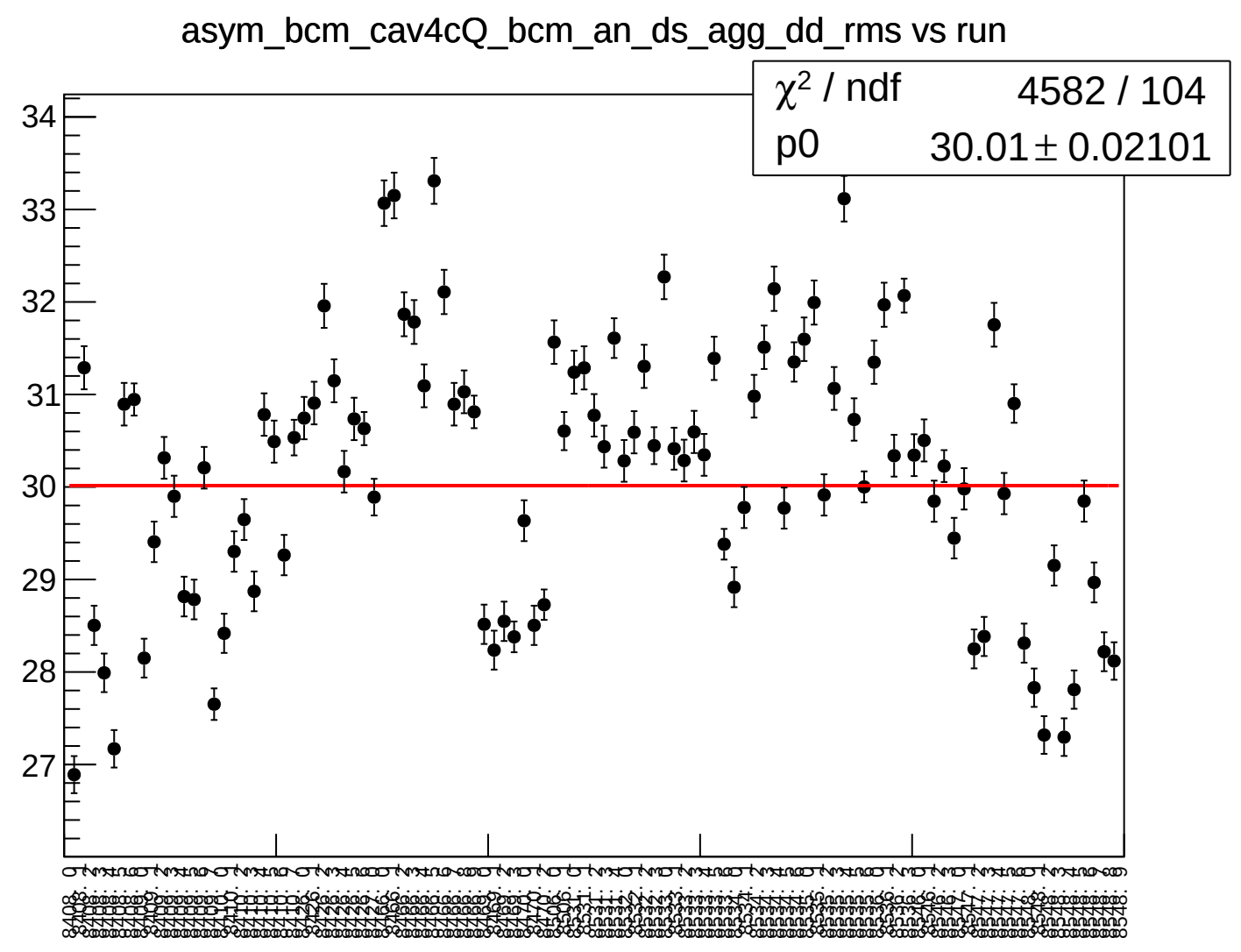

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 4522 / 104
p0 30.16 ± 0.02111
34
33
32
31
30
29
28
27

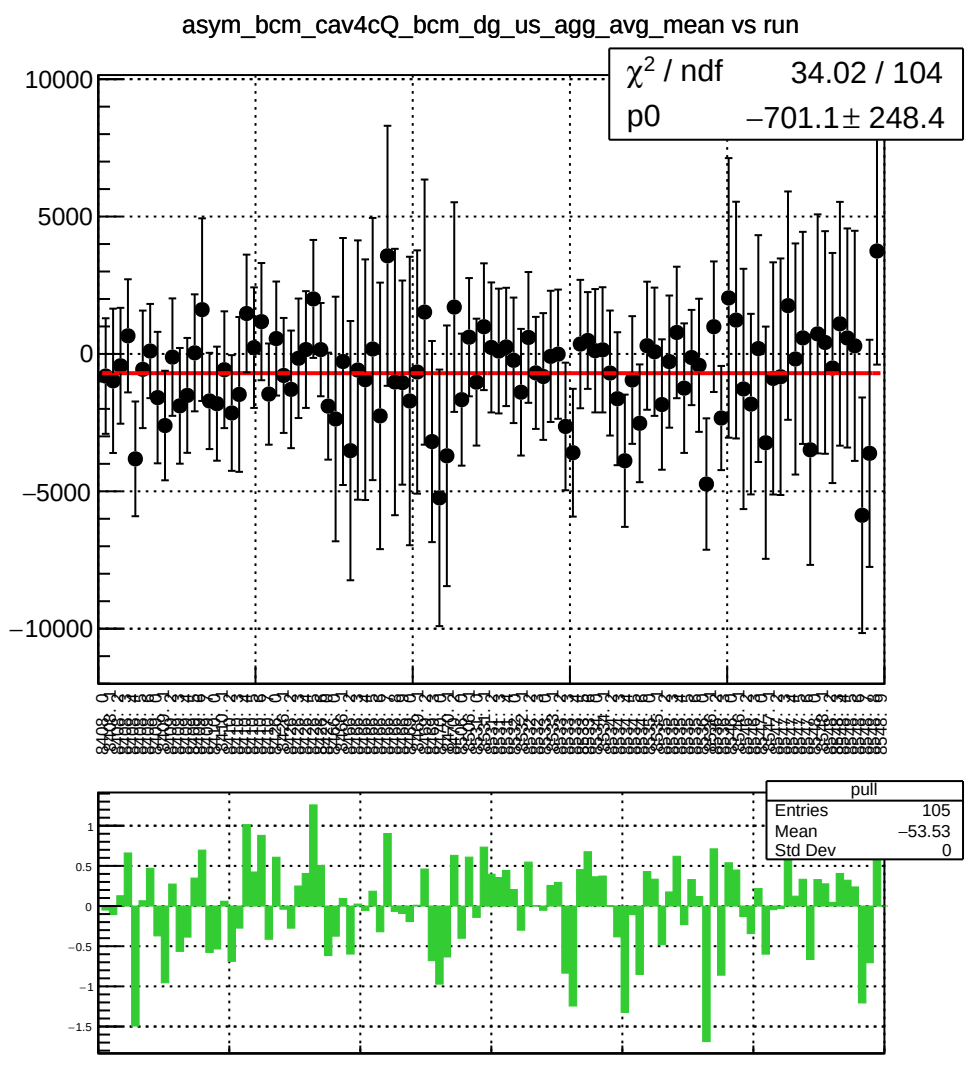

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 33.75 / 104
p0 −735.7 ± 246.6
10000
5000
0
−5000
−10000
pull
Entries 105
Mean −421.2
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 105
Mean −0.0008369
Std Dev 0.5669
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

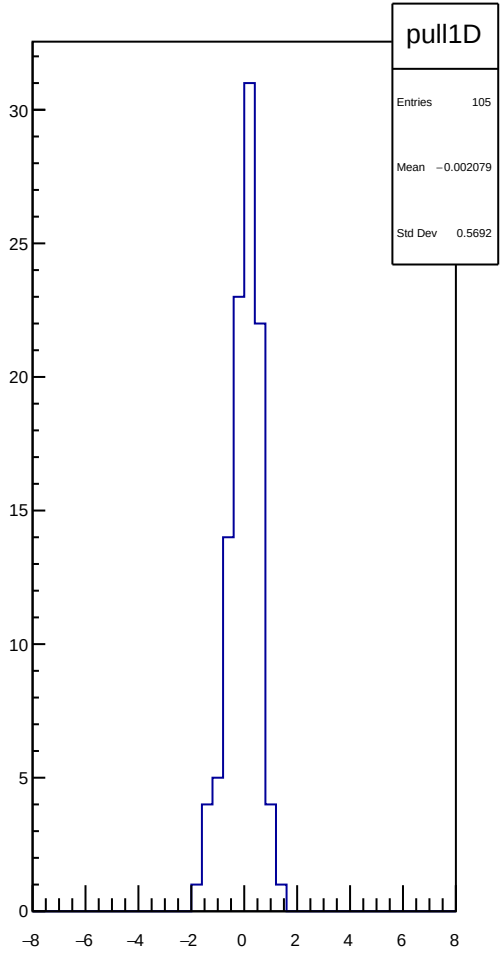

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.671e+05 / 104
p0 239 ± 0.1743
500
450
400
350
300
250
200

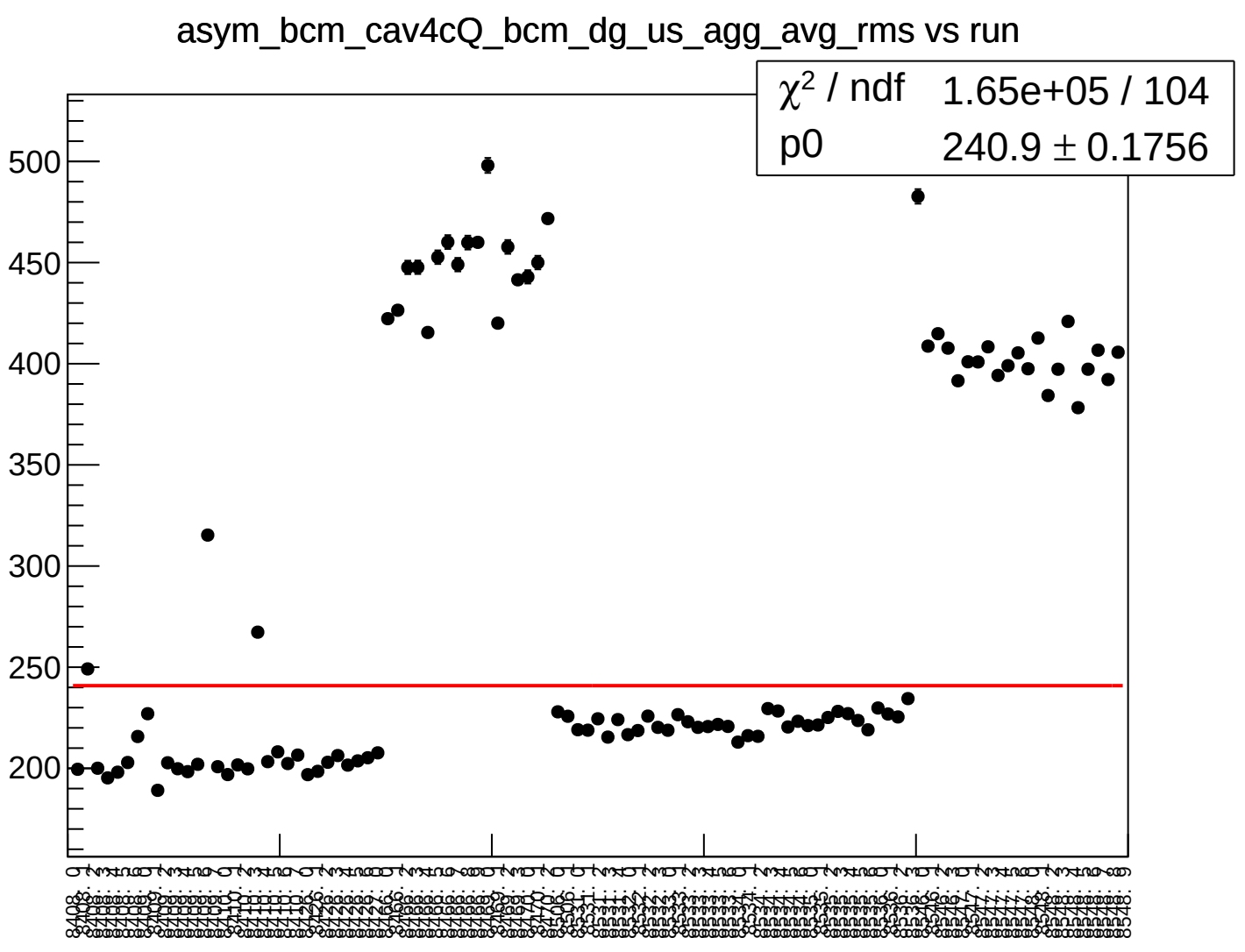

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 99.6 / 104
p0 −29.3 ± 29.71
1000
500
0
−500
−1000
−1500
pull
Entries 105
Mean 210.1
Std Dev 0
2
1
0
−1
−2

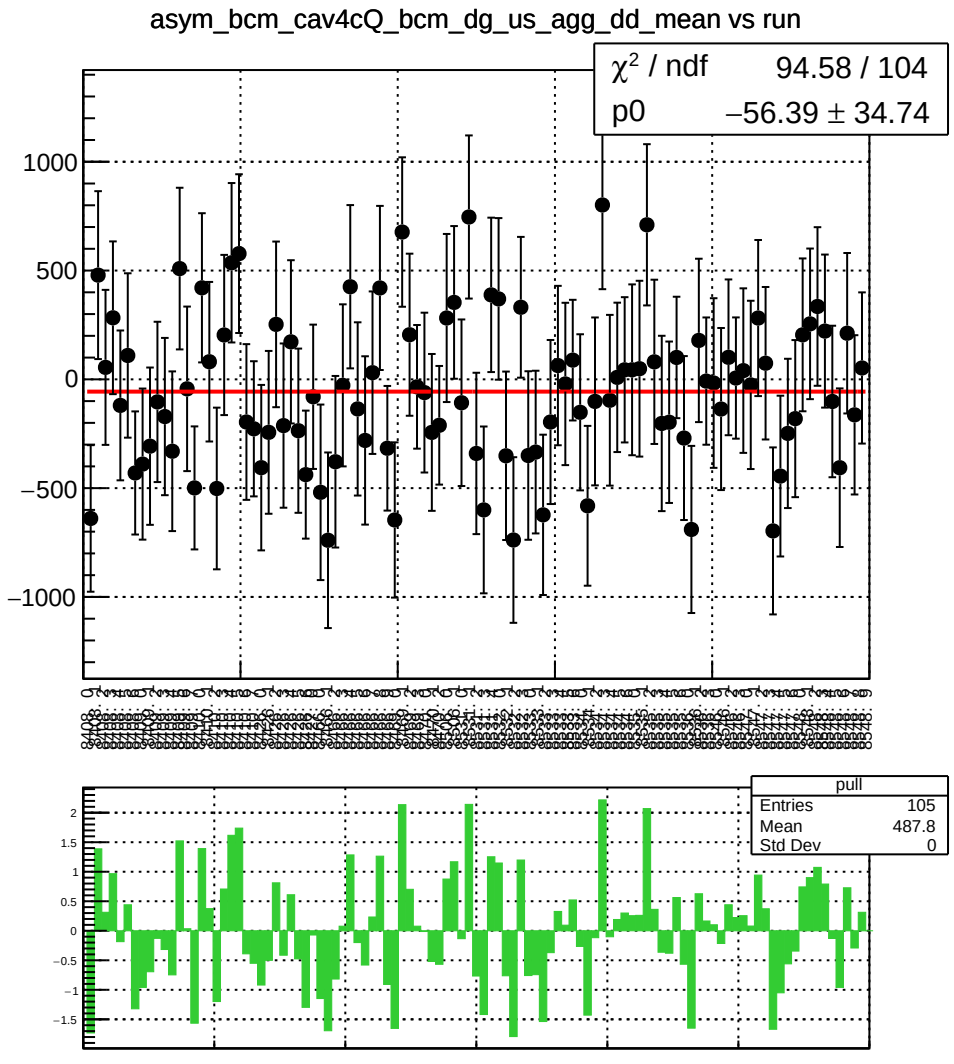

pull1D
Entries 105
Mean 0.007702
Std Dev 0.9739
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

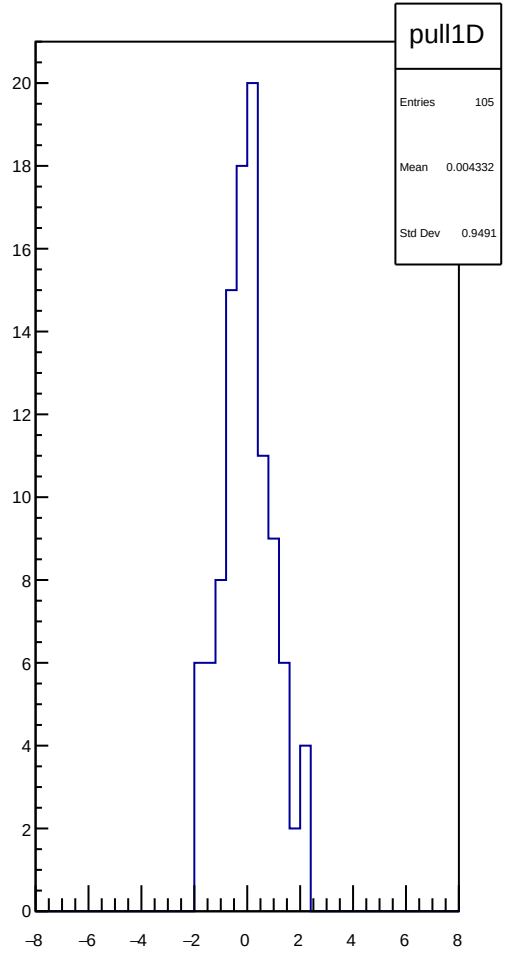

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 4582 / 104
p0 30.01 ± 0.02101
34
33
32
31
30
29
28
27

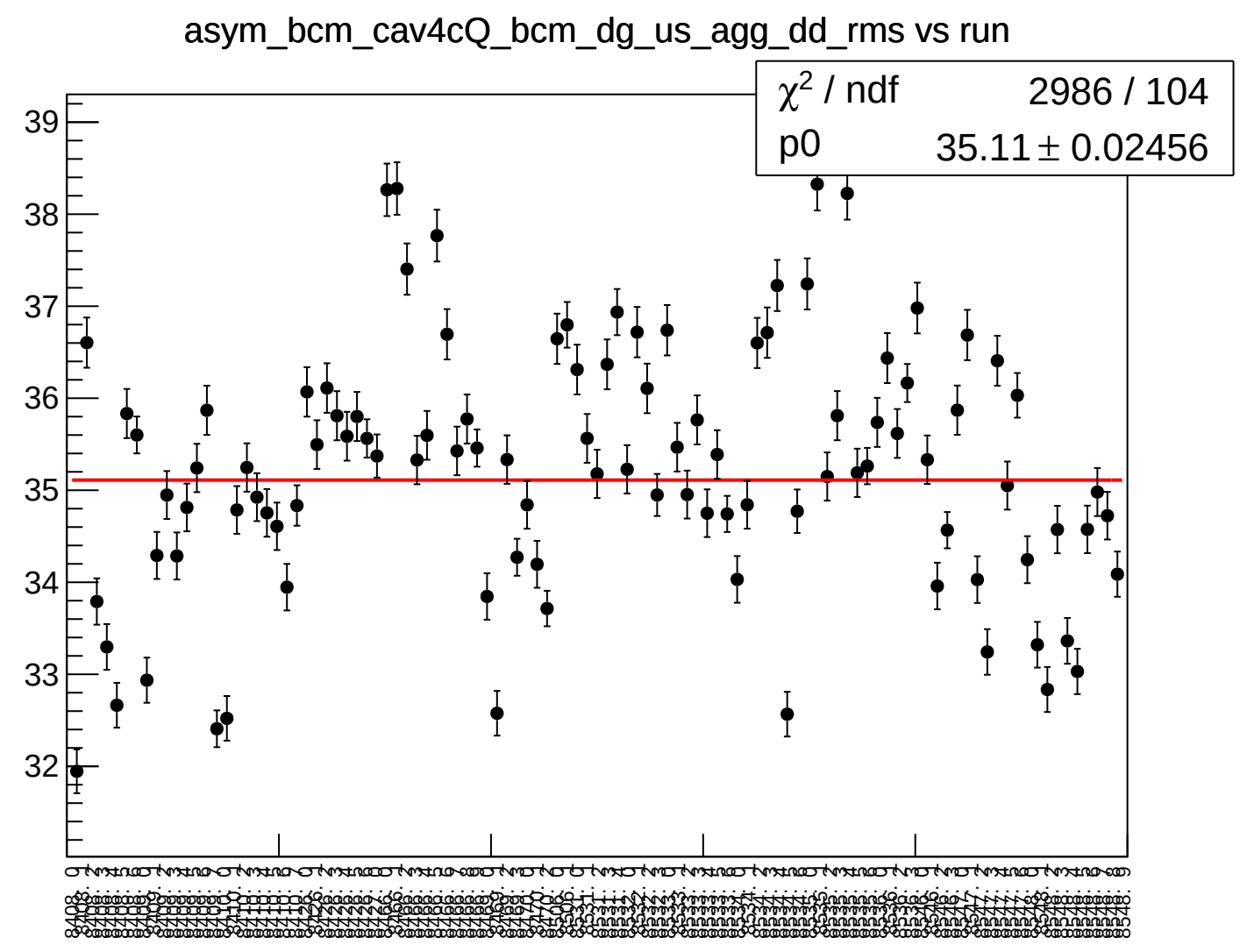

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 34.02 / 104
p0 −701.1± 248.4
10000
5000
0
−5000
−10000
pull
Entries 105
Mean −53.53
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

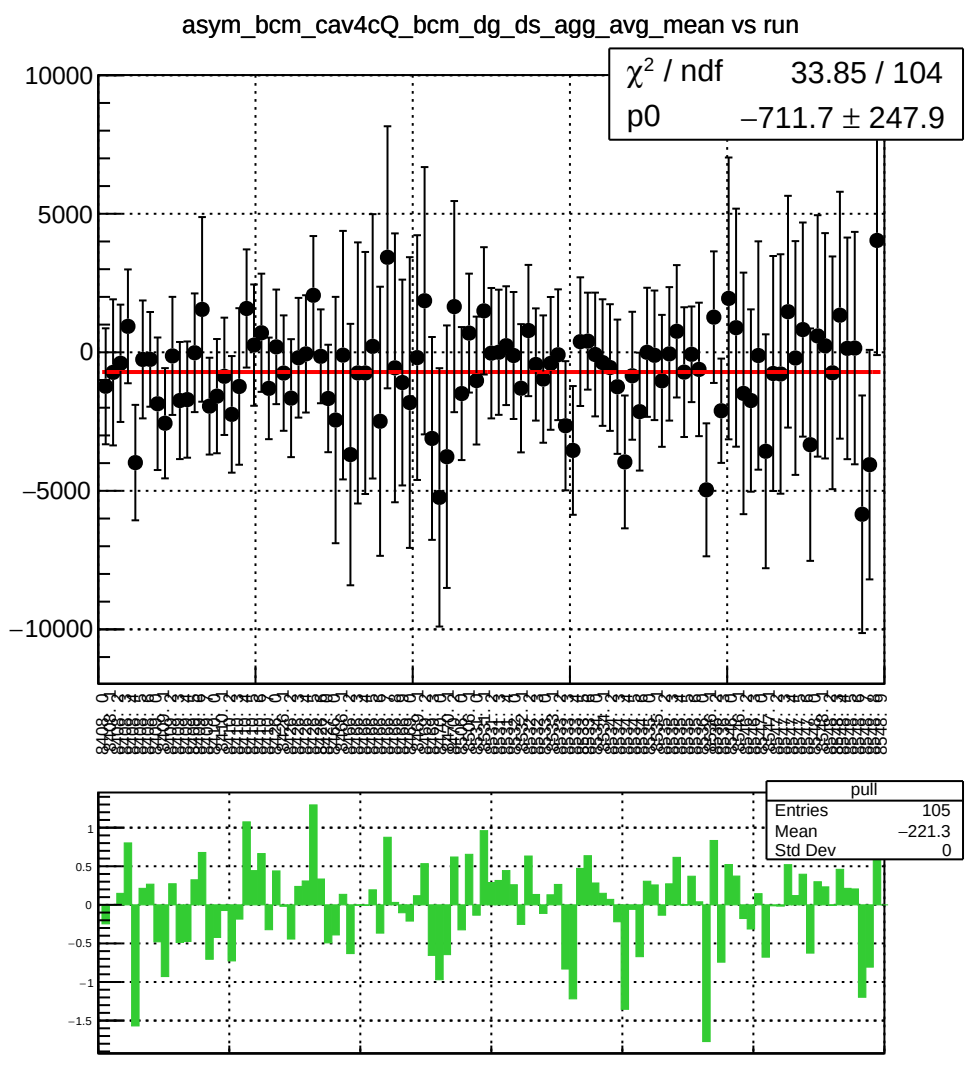

pull1D
Entries 105
Mean −0.002079
Std Dev 0.5692
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

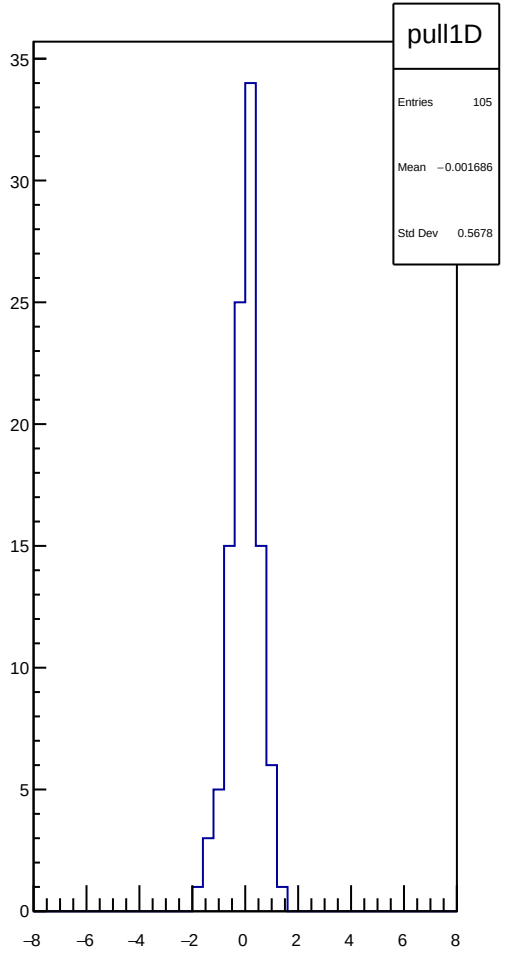

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 1.65e+05 / 104
p0 240.9 ± 0.1756
500
450
400
350
300
250
200

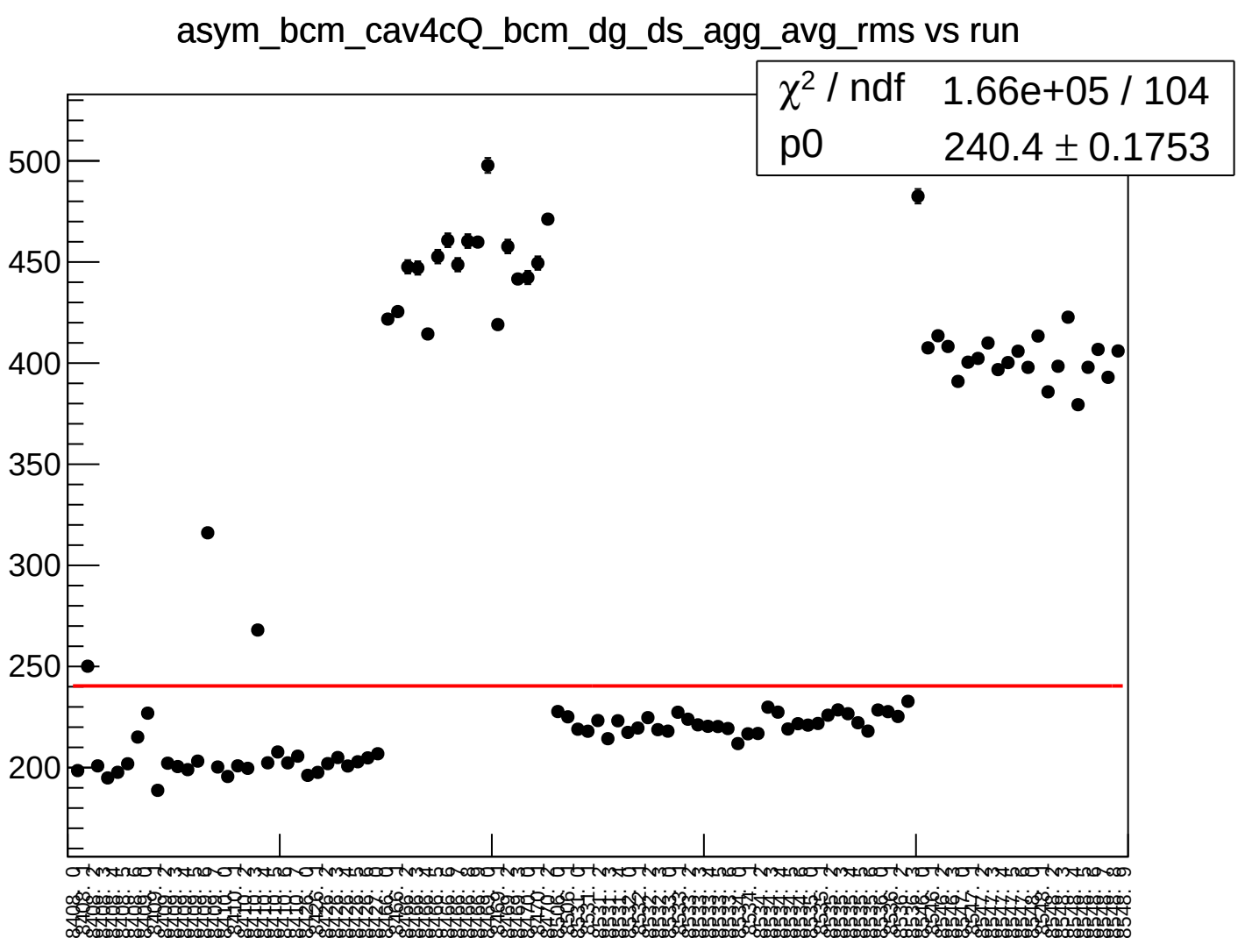

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 94.58 / 104
p0 −56.39 ± 34.74
1000
500
0
−500
−1000
pull
Entries 105
Mean 487.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

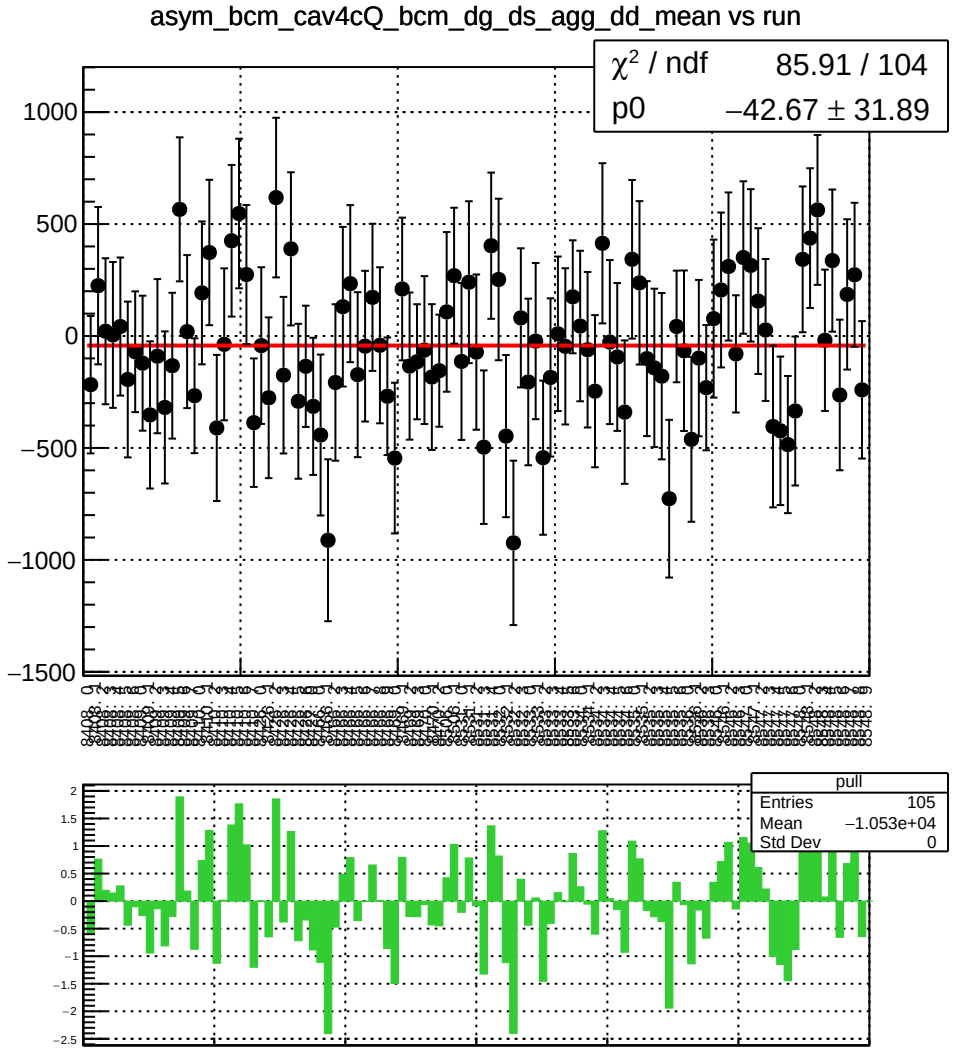

pull1D
Entries 105
Mean 0.004332
Std Dev 0.9491
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

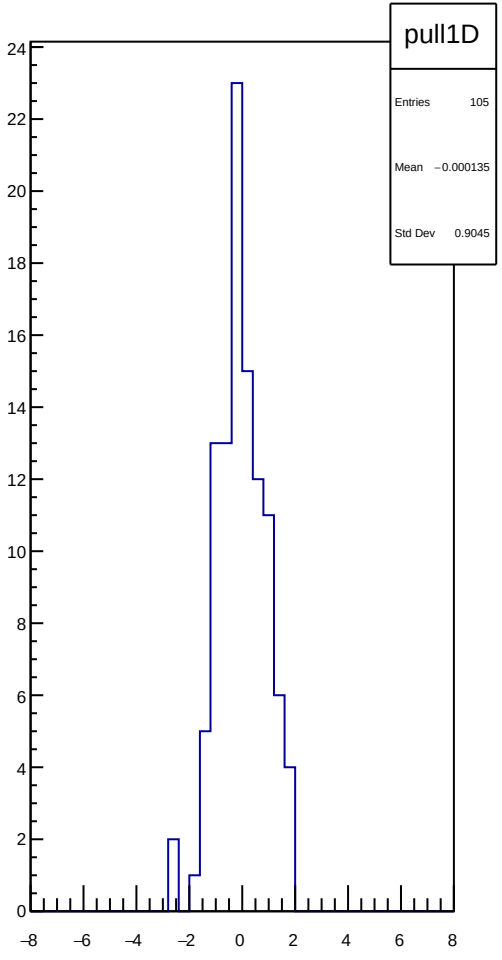

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 2986 / 104
p0 35.11 ± 0.02456
39
38
37
36
35
34
33
32

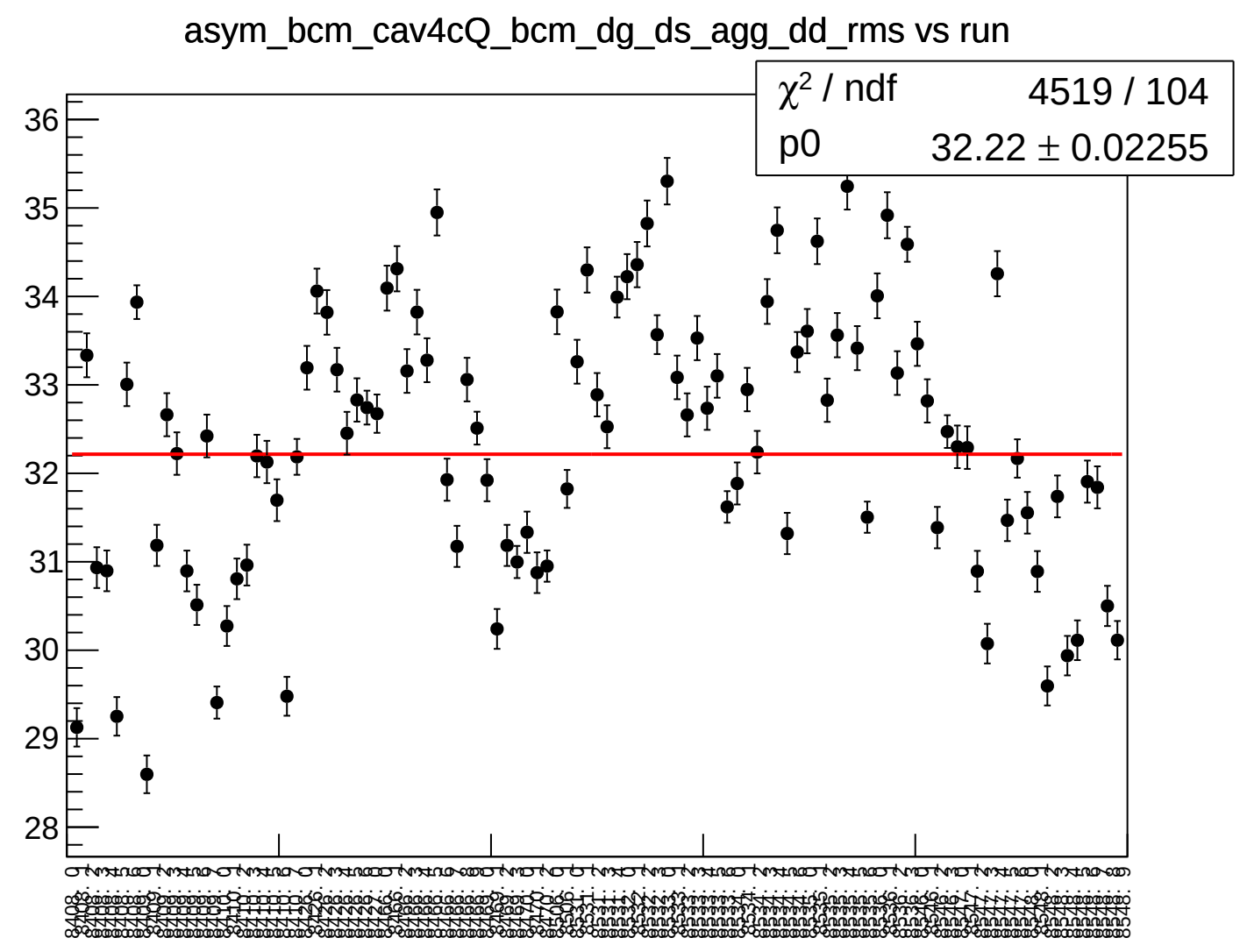

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 33.85 / 104
p0 −711.7 ± 247.9
10000
5000
0
−5000
−10000
pull
Entries 105
Mean −221.3
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

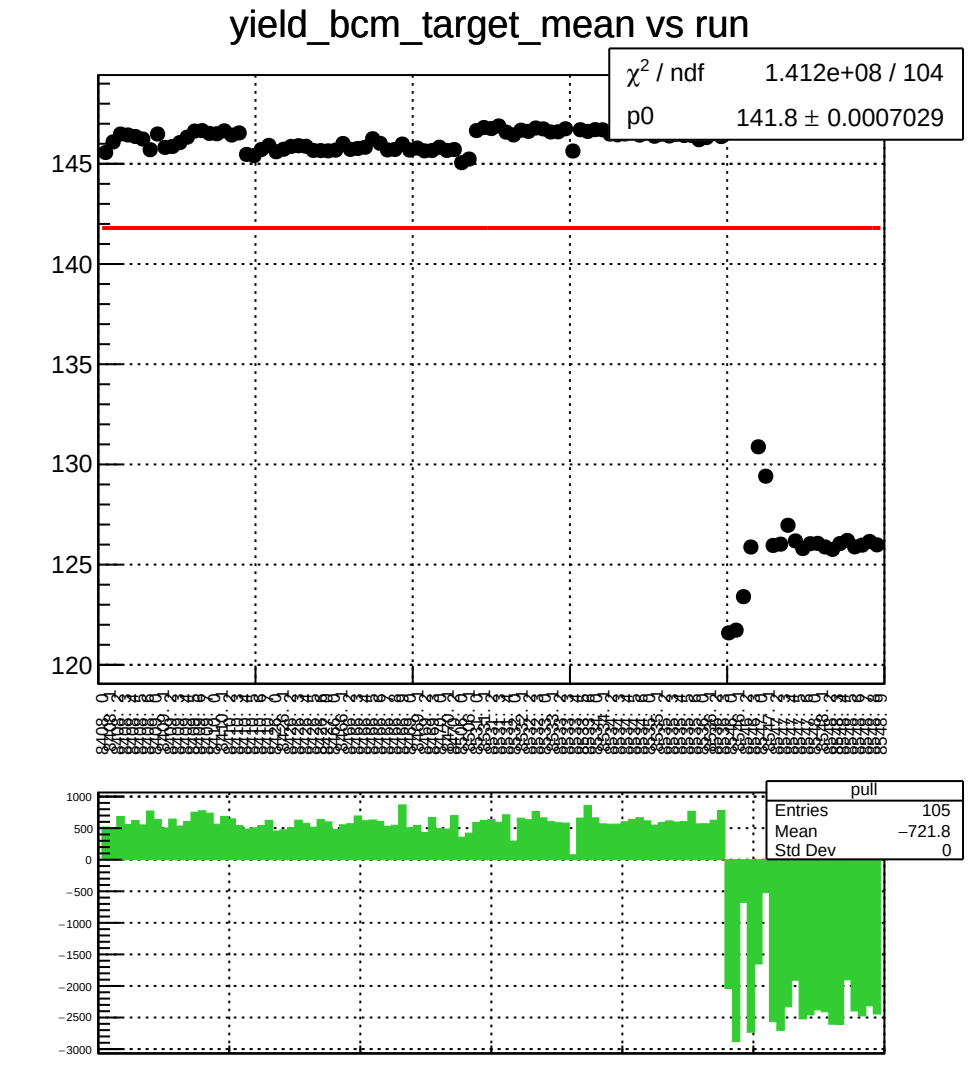

pull1D
Entries 105
Mean −0.001686
Std Dev 0.5678
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

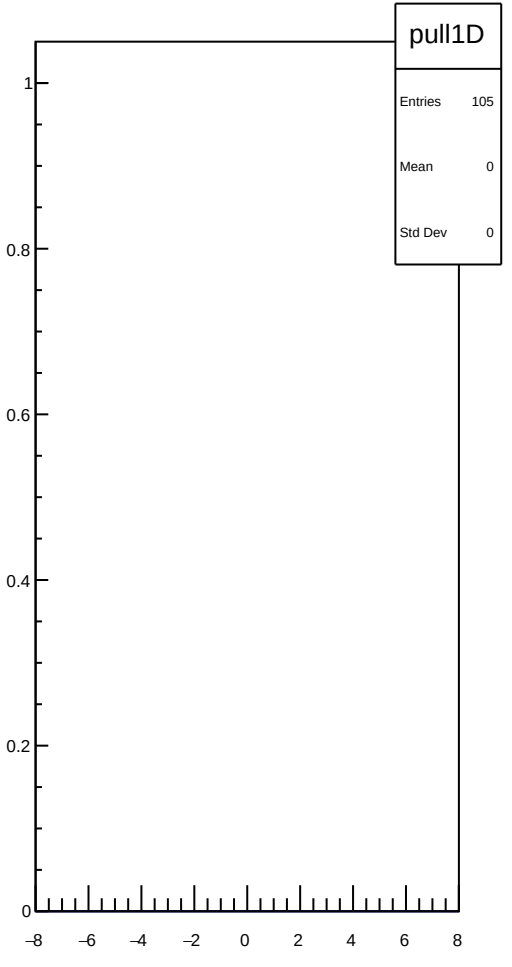

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 1.66e+05 / 104
p0 240.4 ± 0.1753
500
450
400
350
300
250
200

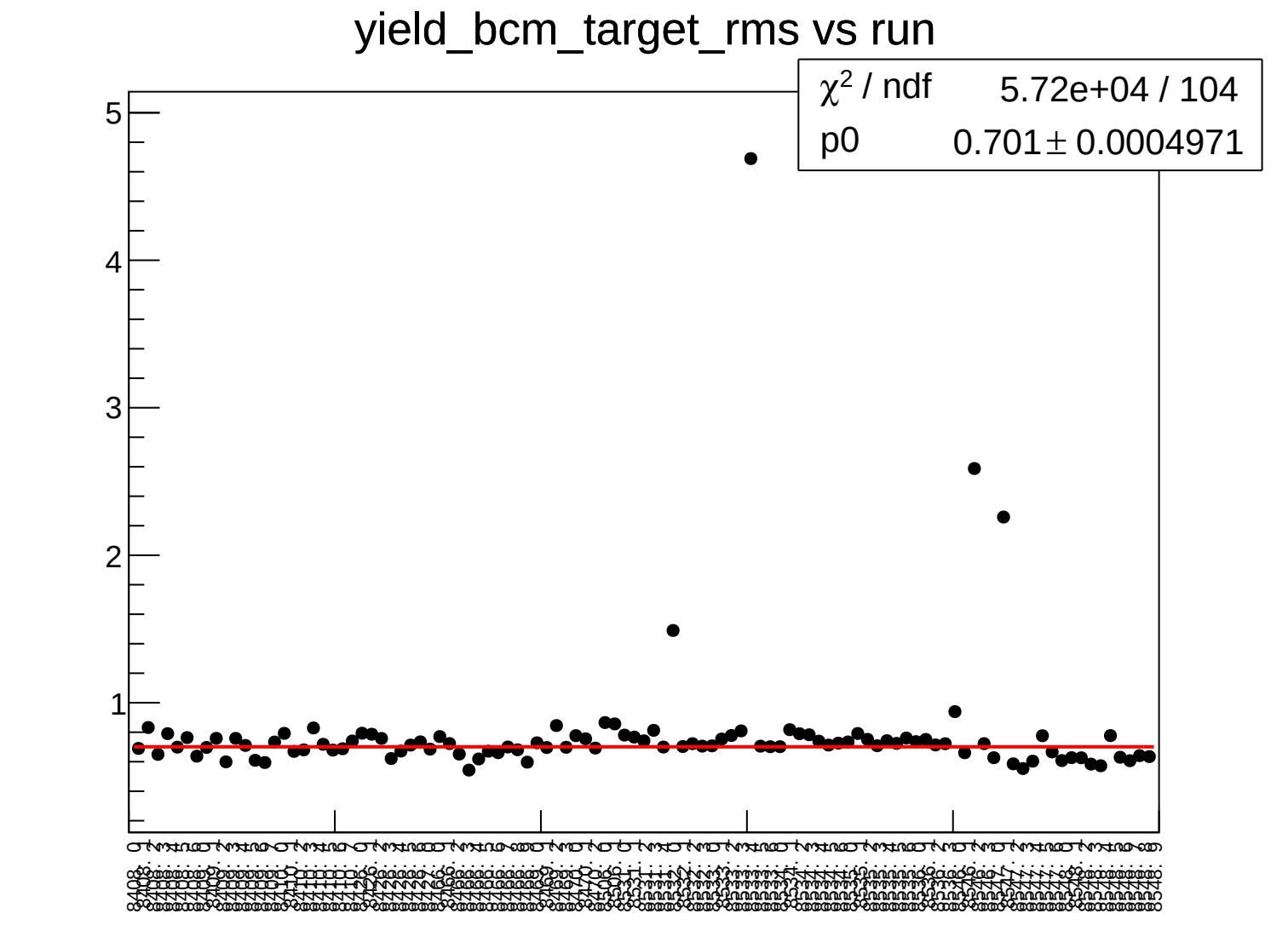

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 85.91 / 104
p0 −42.67 ± 31.89
1000
500
0
−500
−1000
−1500
pull
Entries 105
Mean −1.053e+04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

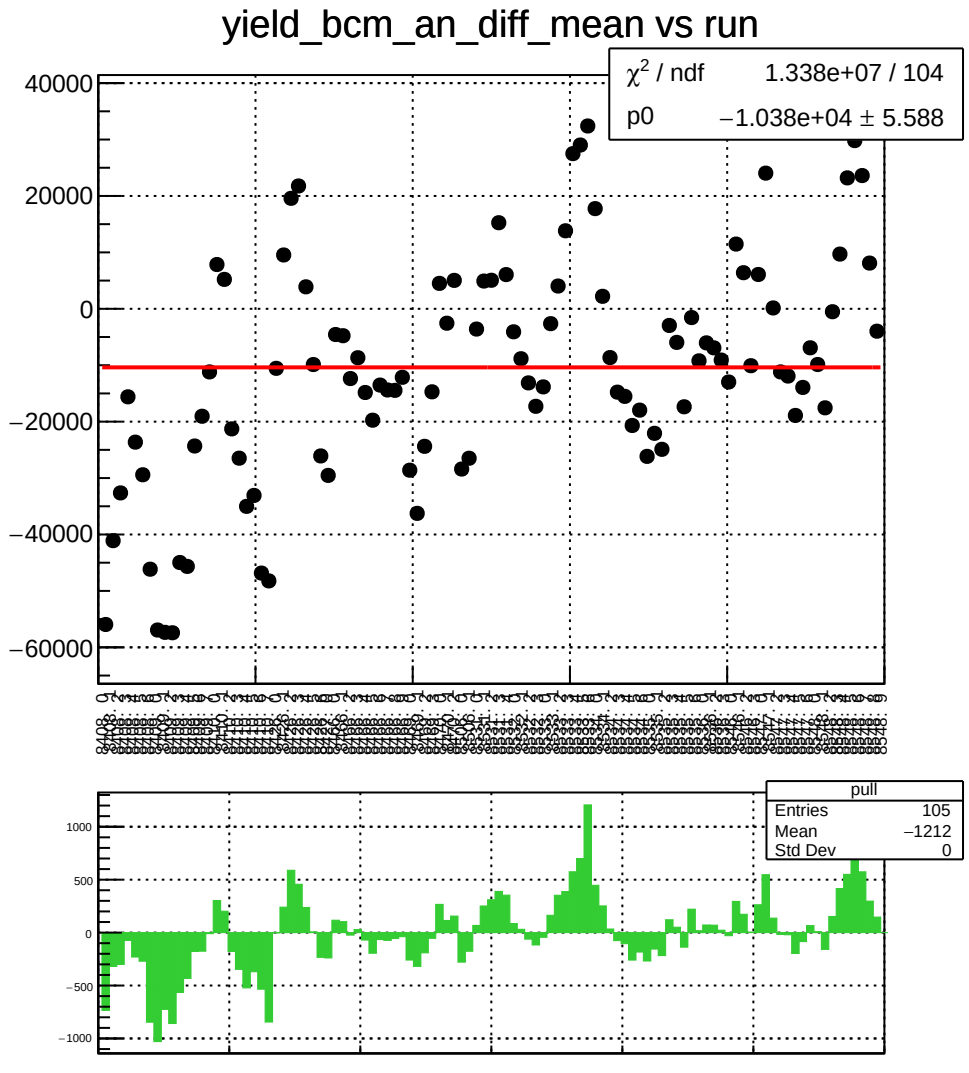

pull1D
Entries 105
Mean −0.000135
Std Dev 0.9045
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

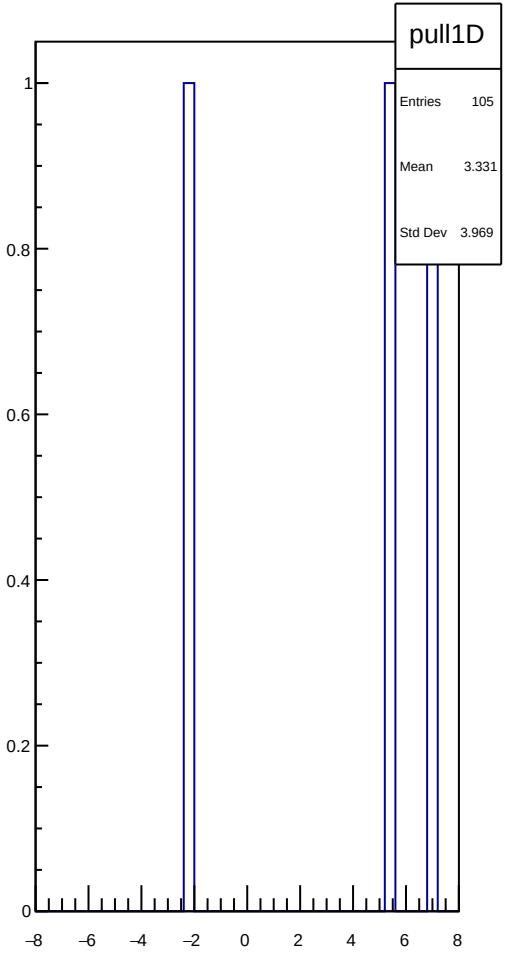

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 4519 / 104
p0 32.22 ± 0.02255
36
35
34
33
32
31
30
29
28

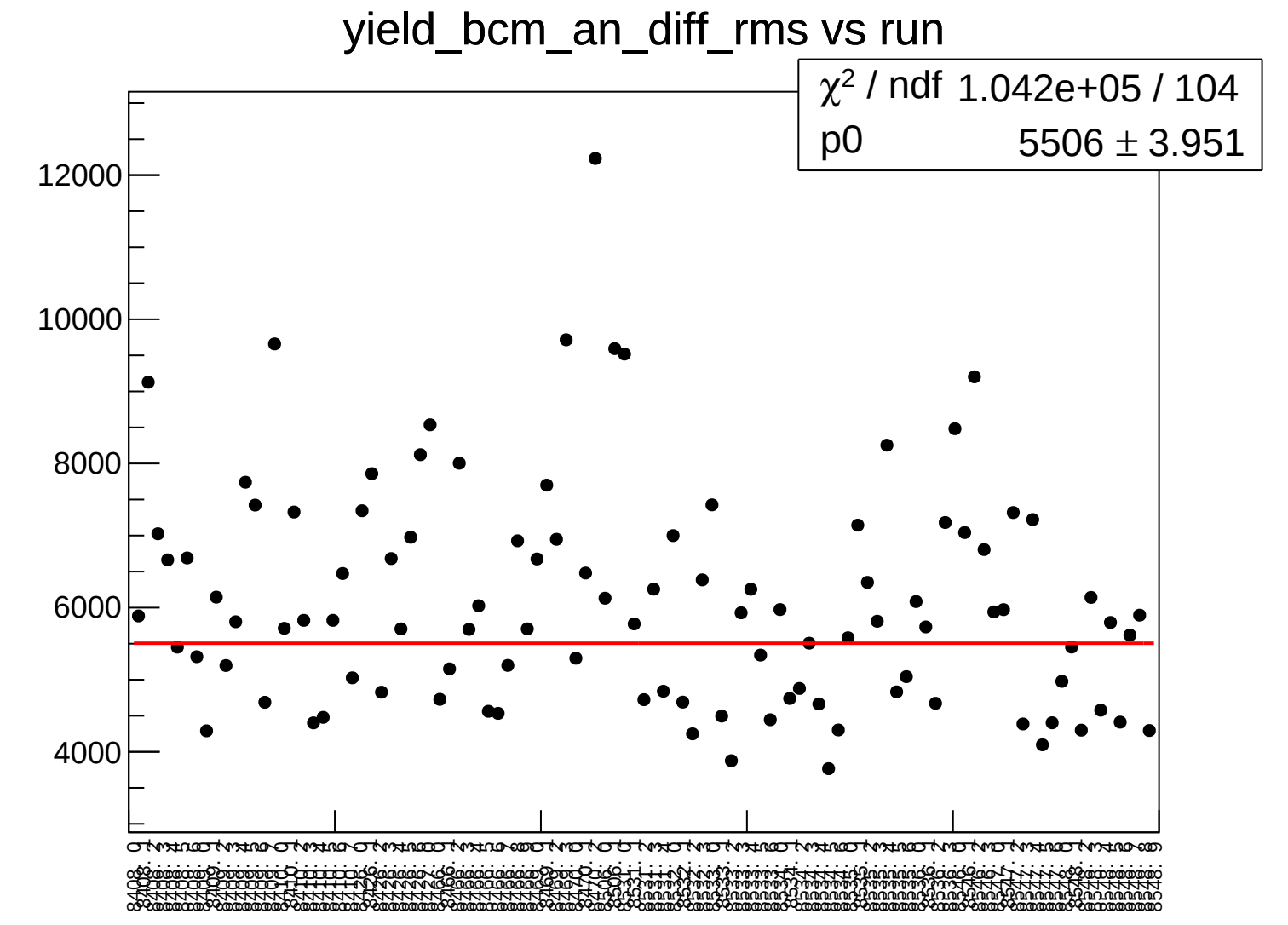

yield_bcm_target_mean vs run
χ² / ndf 1.412e+08 / 104
p0 141.8 ± 0.0007029
145
140
135
130
125
120
pull
Entries 105
Mean −721.8
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000
−2500
−3000

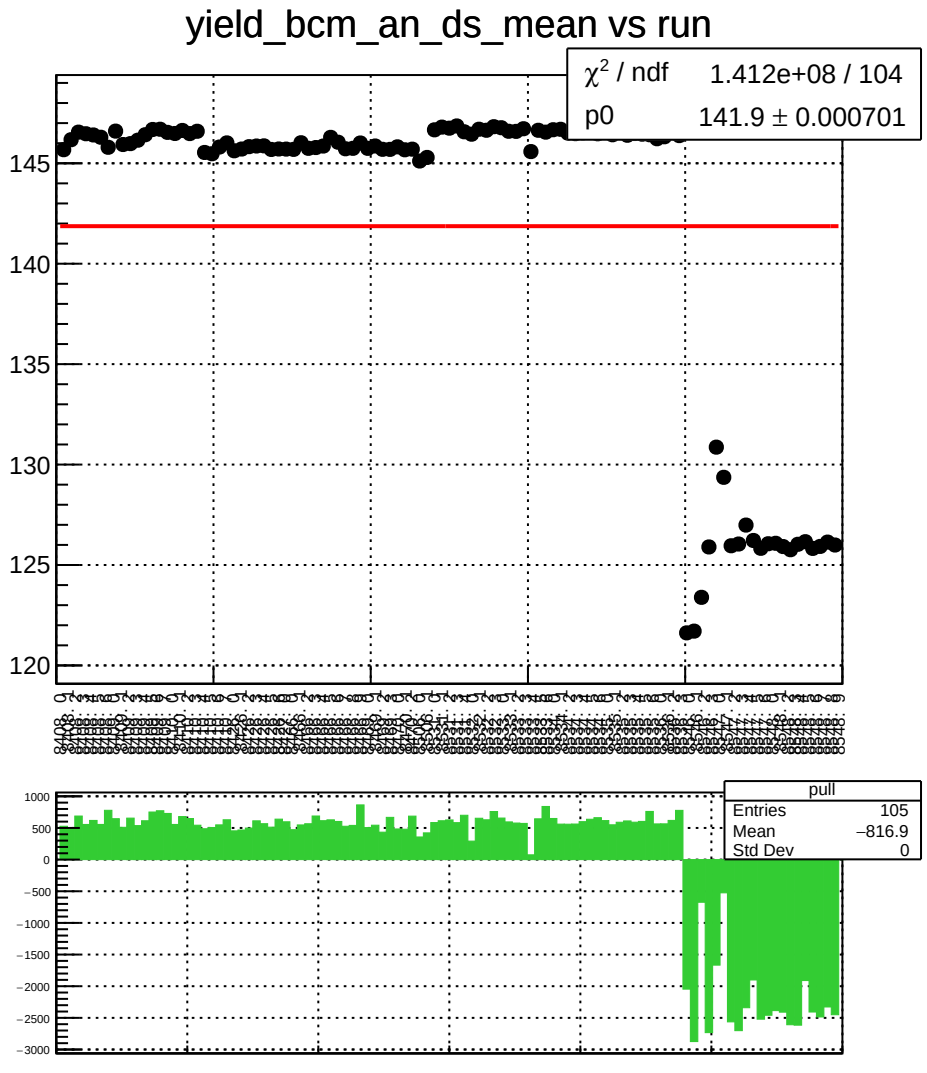

pull1D
Entries 105
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

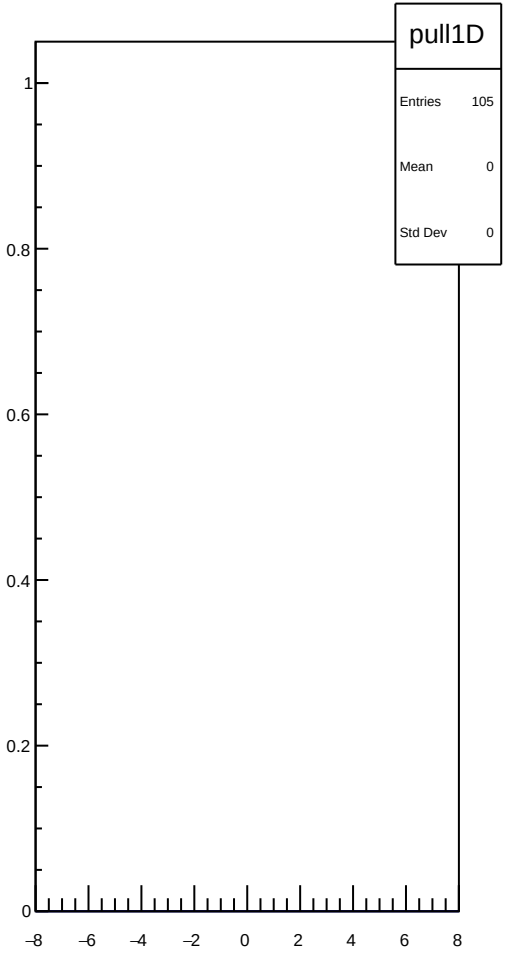

yield_bcm_target_rms vs run
χ² / ndf 5.72e+04 / 104
p0 0.701 ± 0.0004971
5
4
3
2
1

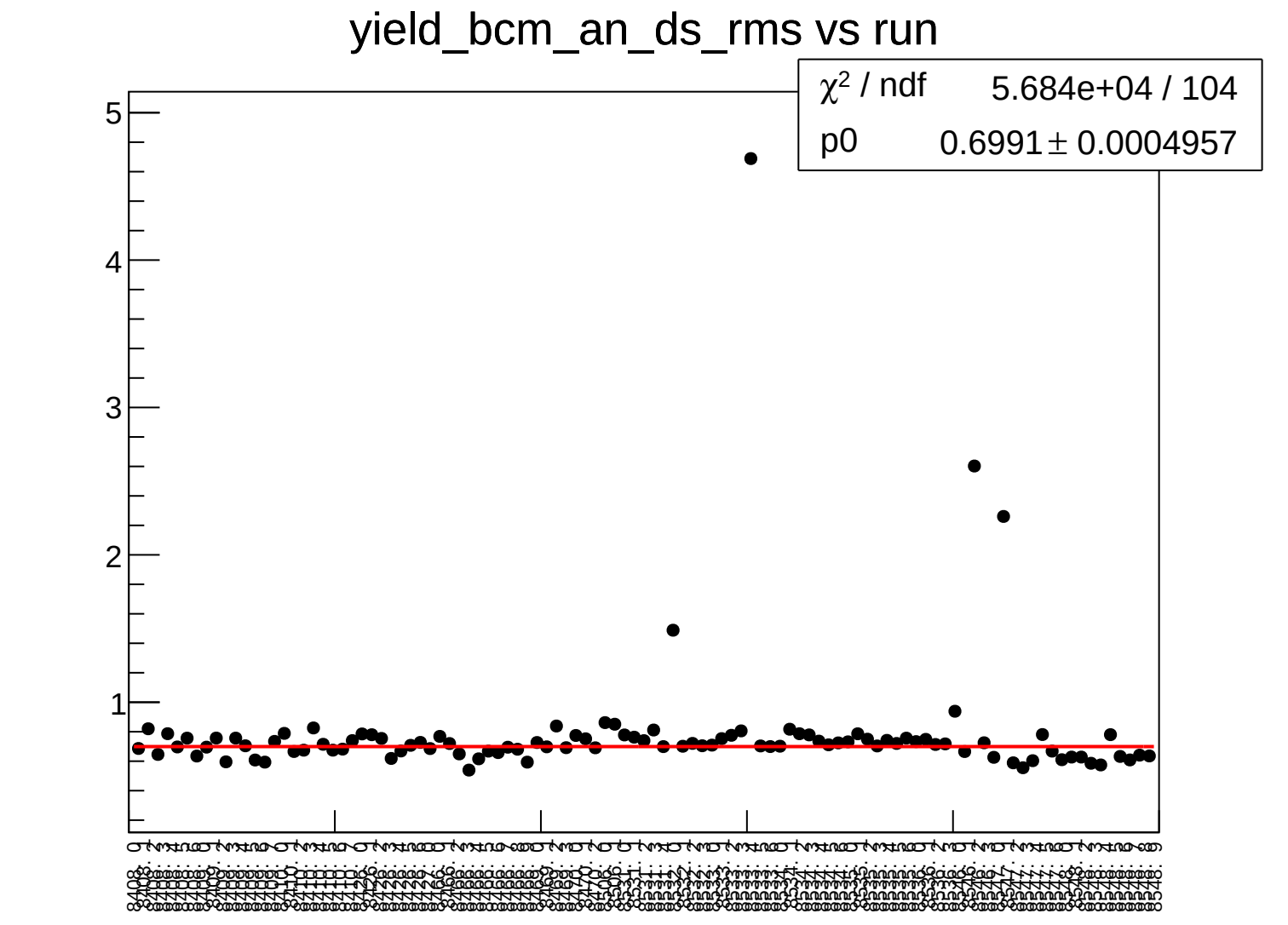

yield_bcm_an_diff_mean vs run
χ² / ndf 1.338e+07 / 104
p0 −1.038e+04 ± 5.588
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean −1212
Std Dev 0
1000
500
0
−500
−1000

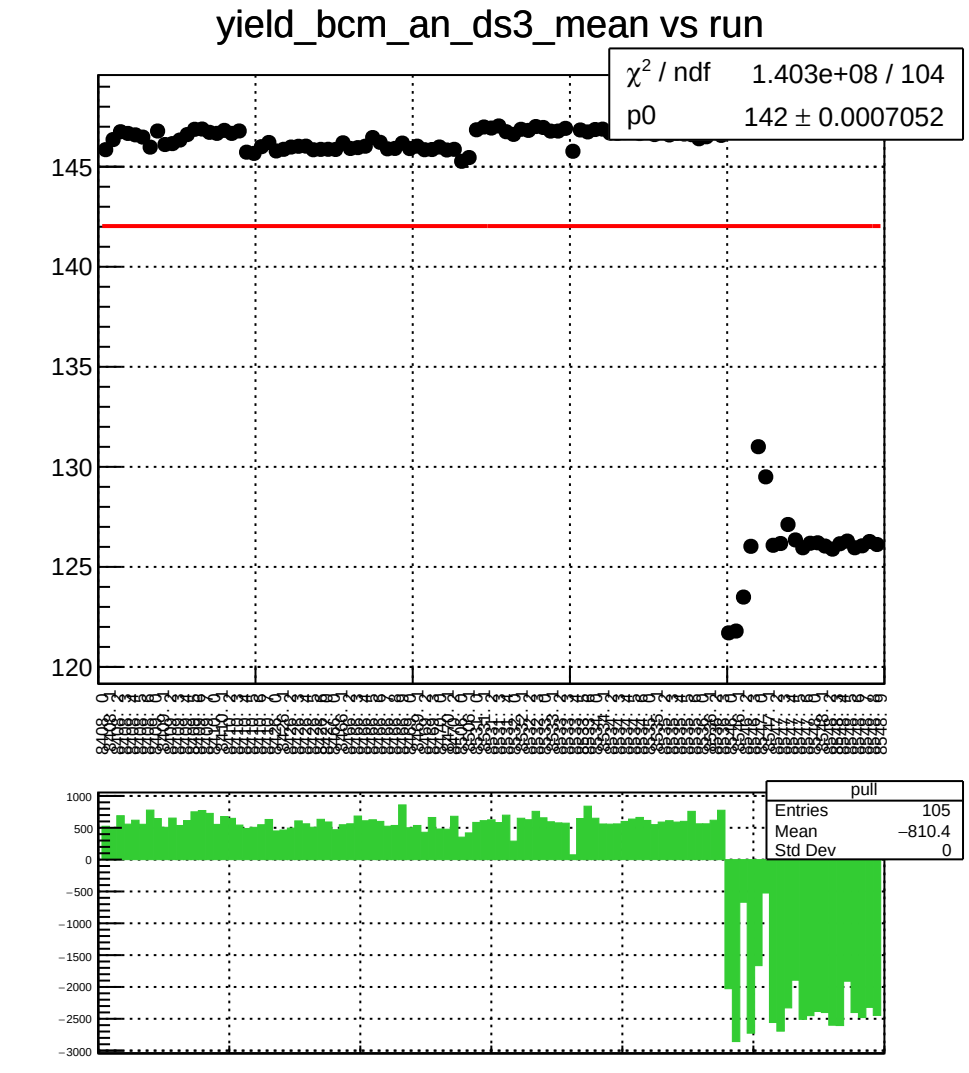

pull1D
Entries 105
Mean 3.331
Std Dev 3.969
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

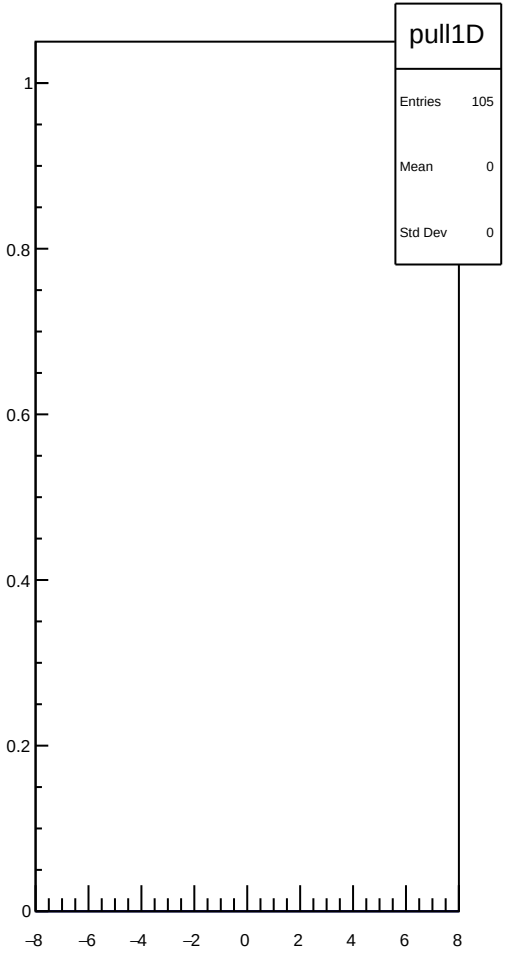

yield_bcm_an_diff_rms vs run
χ² / ndf 1.042e+05 / 104
p0 5506 ± 3.951
12000
10000
8000
6000
4000

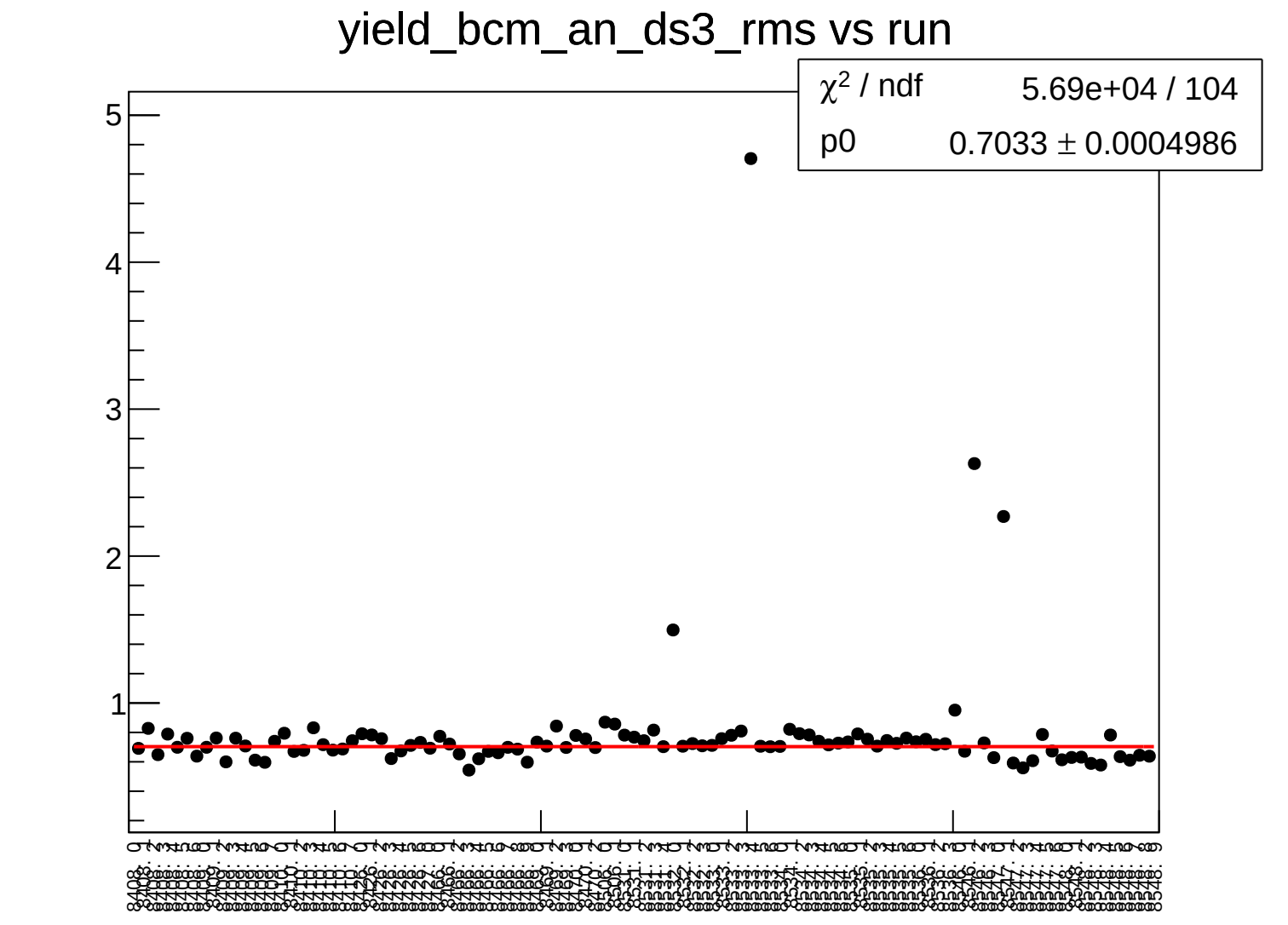

yield_bcm_an_ds_mean vs run
χ² / ndf 1.412e+08 / 104
p0 141.9 ± 0.000701
145
140
135
130
125
120
pull
Entries 105
Mean −816.9
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000
−2500
−3000

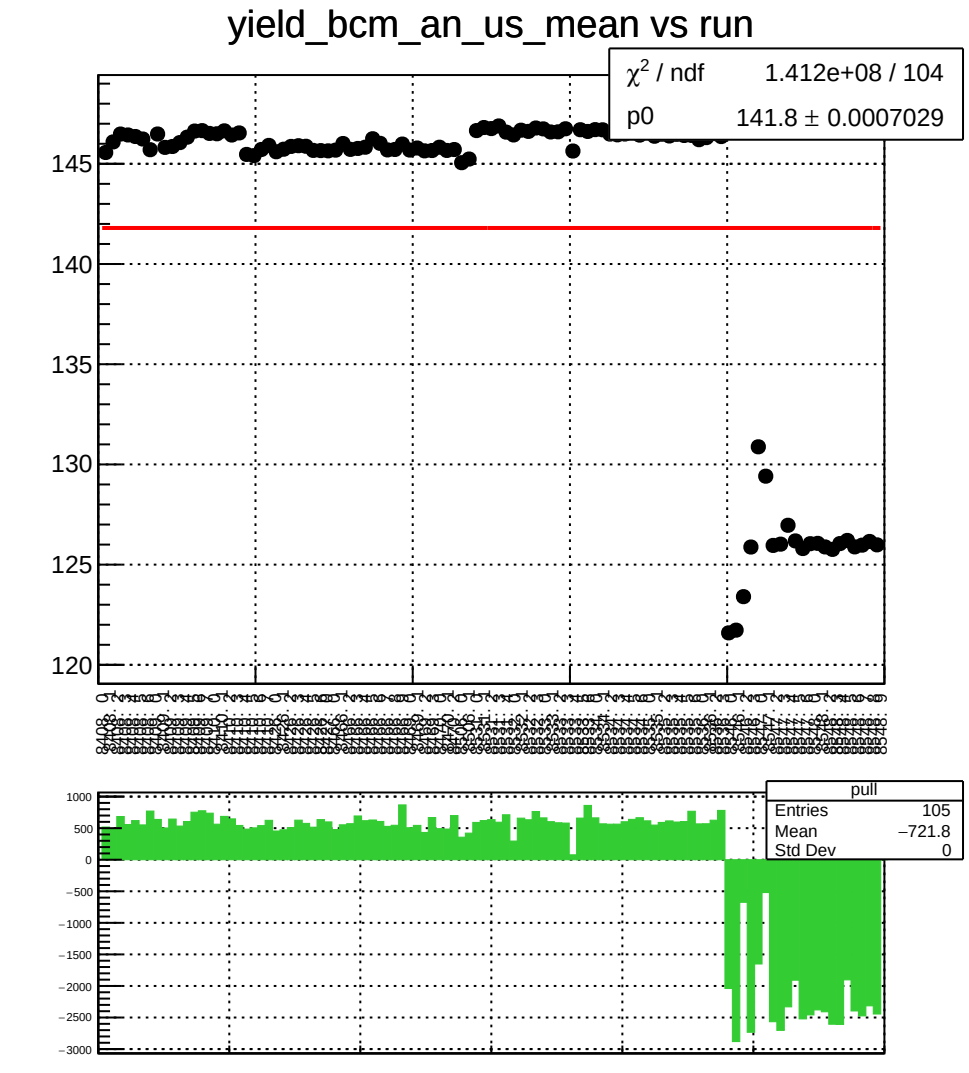

pull1D
Entries 105
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

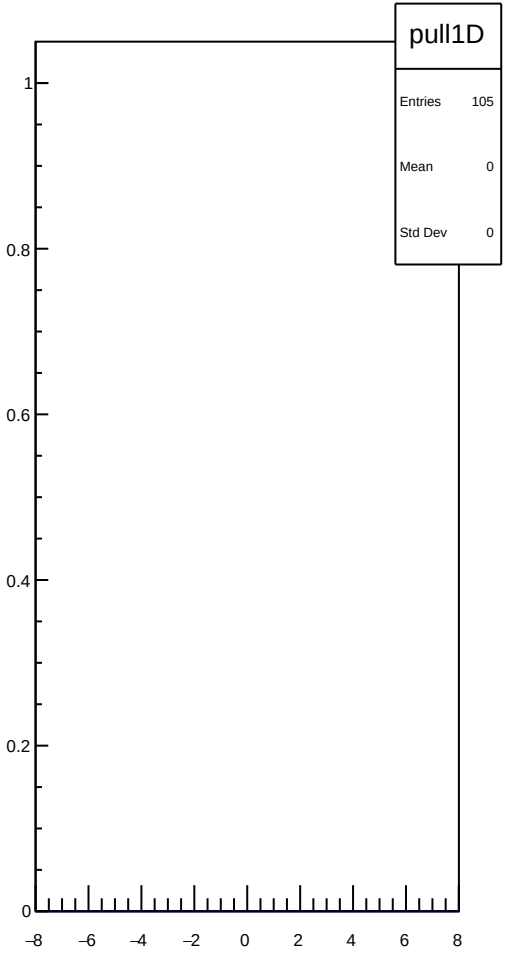

yield_bcm_an_ds_rms vs run
χ² / ndf 5.684e+04 / 104
p0 0.6991 ± 0.0004957
5
4
3
2
1

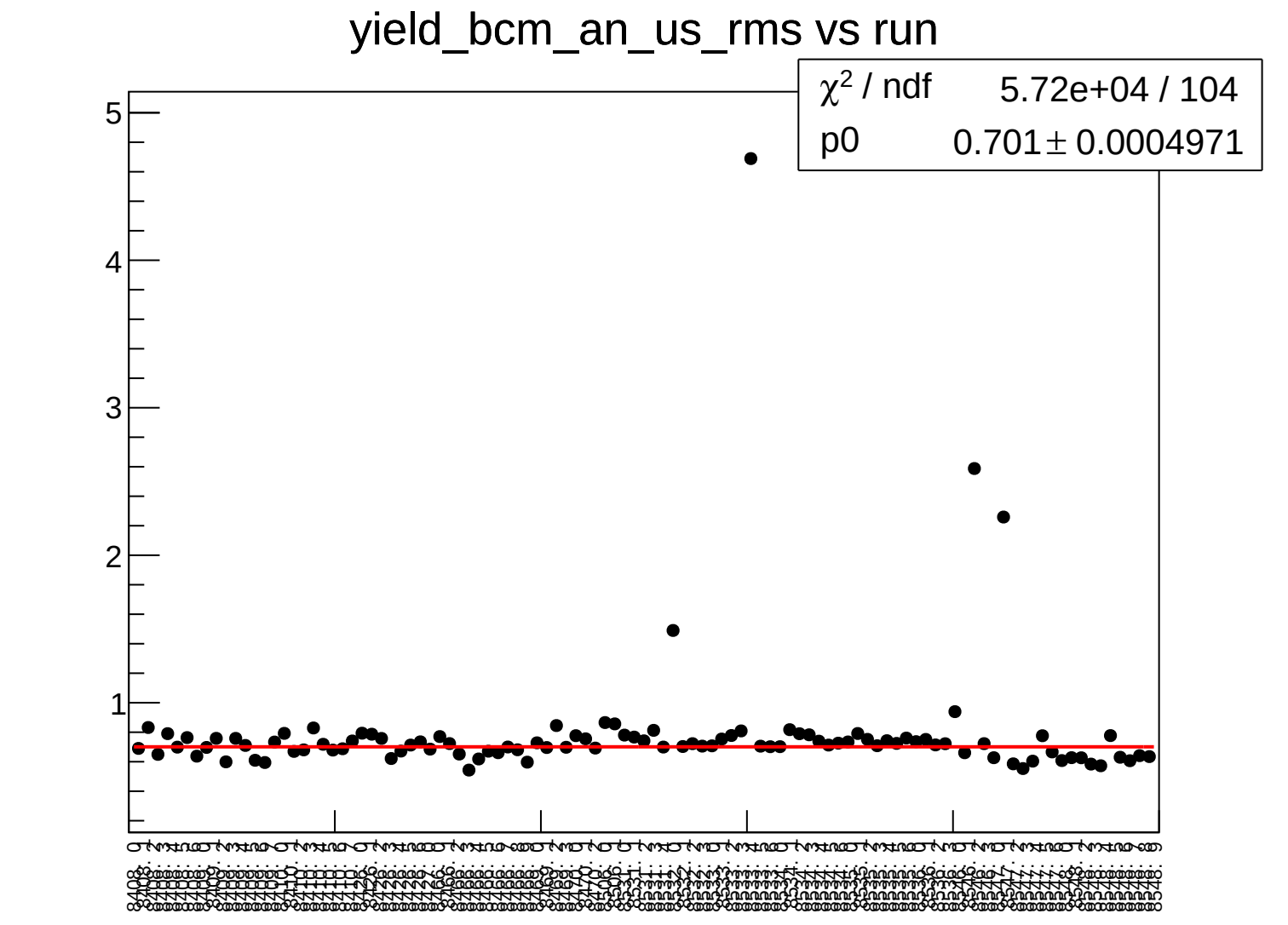

yield_bcm_an_ds3_mean vs run
χ² / ndf 1.403e+08 / 104
p0 142 ± 0.0007052
145
140
135
130
125
120
pull
Entries 105
Mean –810.4
Std Dev 0
1000
500
0
–500
–1000
–1500
–2000
–2500
–3000

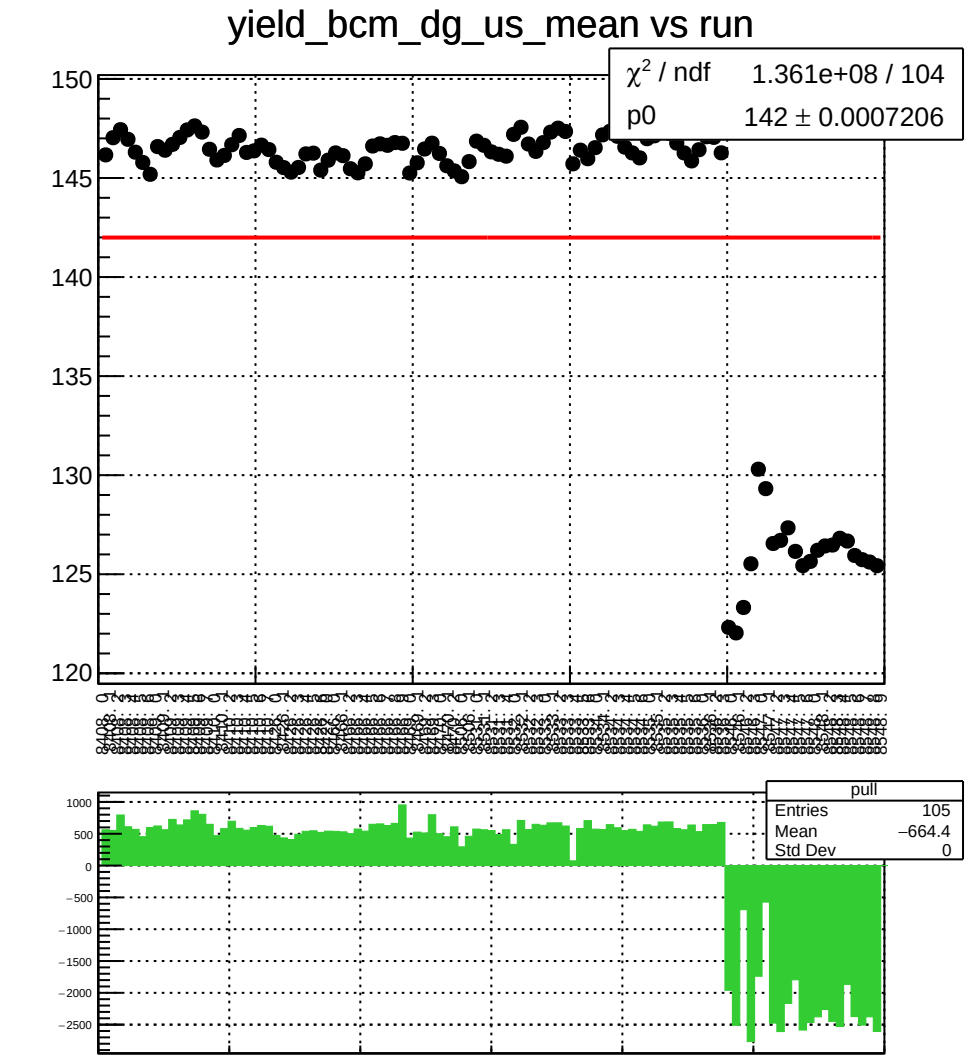

pull1D
Entries 105
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

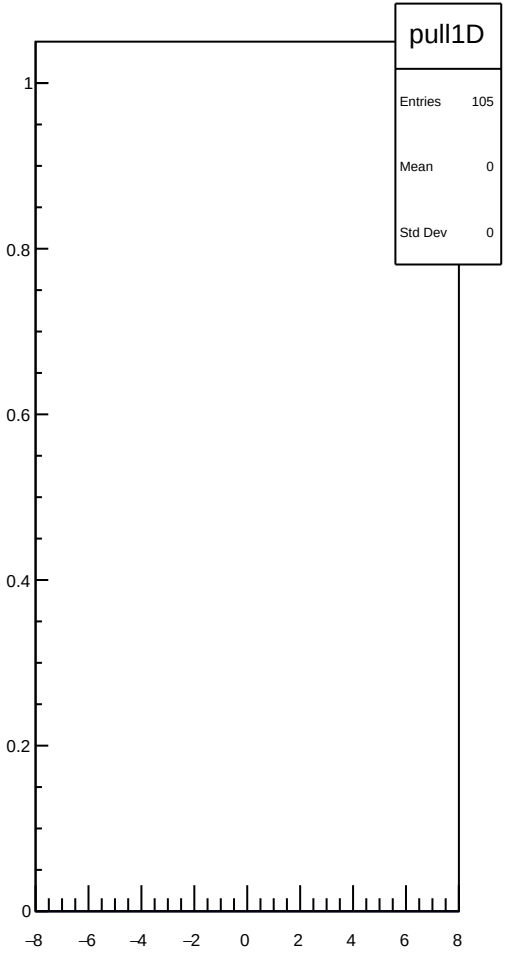

yield_bcm_an_ds3_rms vs run
χ² / ndf 5.69e+04 / 104
p0 0.7033 ± 0.0004986
5
4
3
2
1

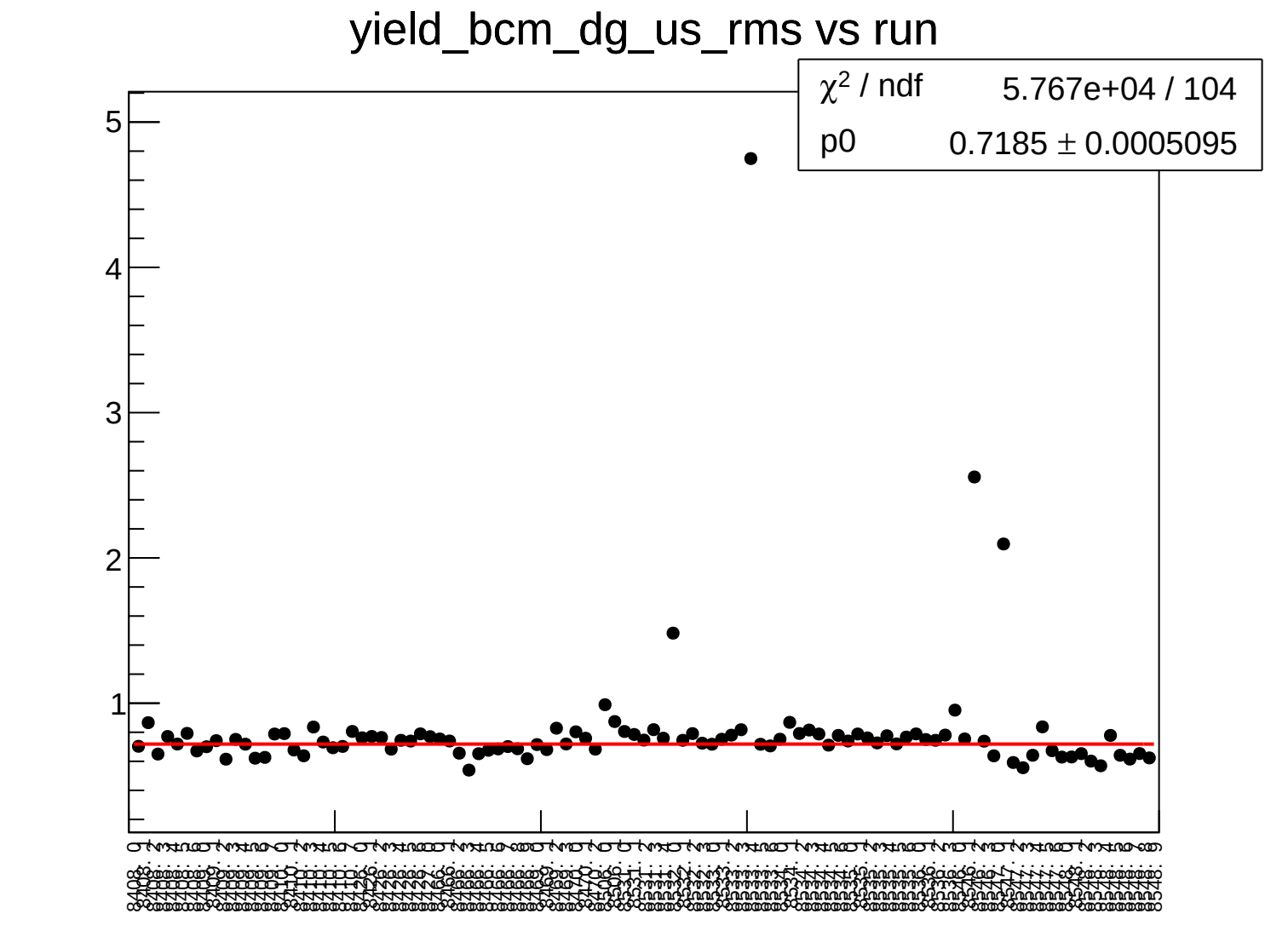

yield_bcm_an_us_mean vs run
χ² / ndf 1.412e+08 / 104
p0 141.8 ± 0.0007029
145
140
135
130
125
120
pull
Entries 105
Mean −721.8
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000
−2500
−3000

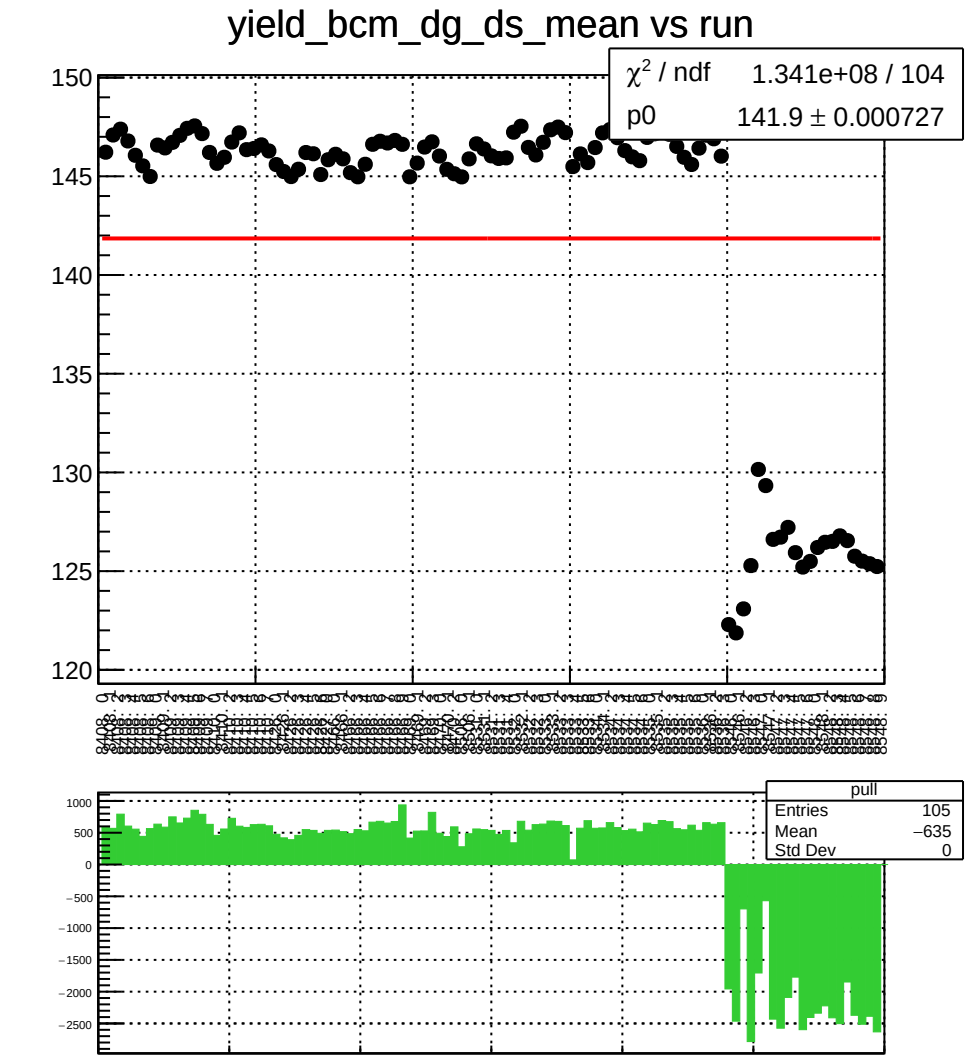

pull1D
Entries 105
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

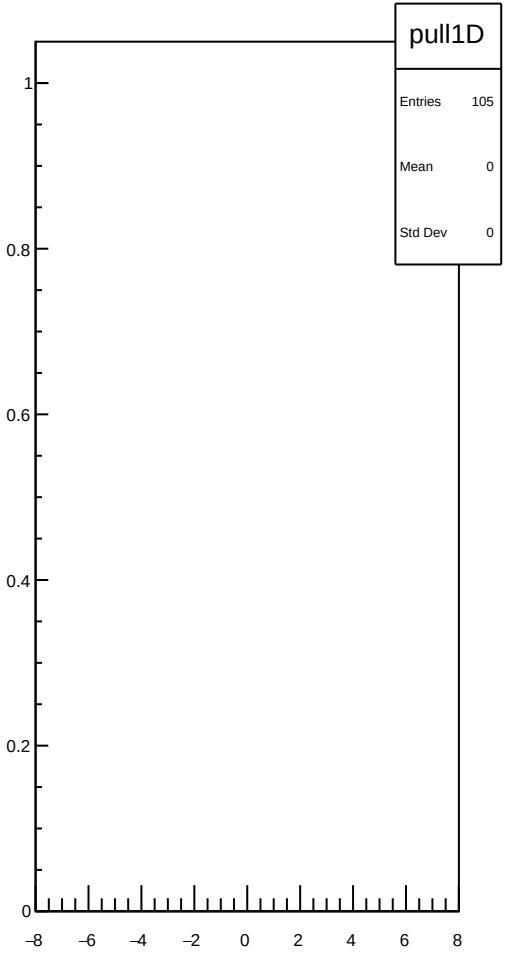

yield_bcm_an_us_rms vs run
χ² / ndf 5.72e+04 / 104
p0 0.701 ± 0.0004971
5
4
3
2
1

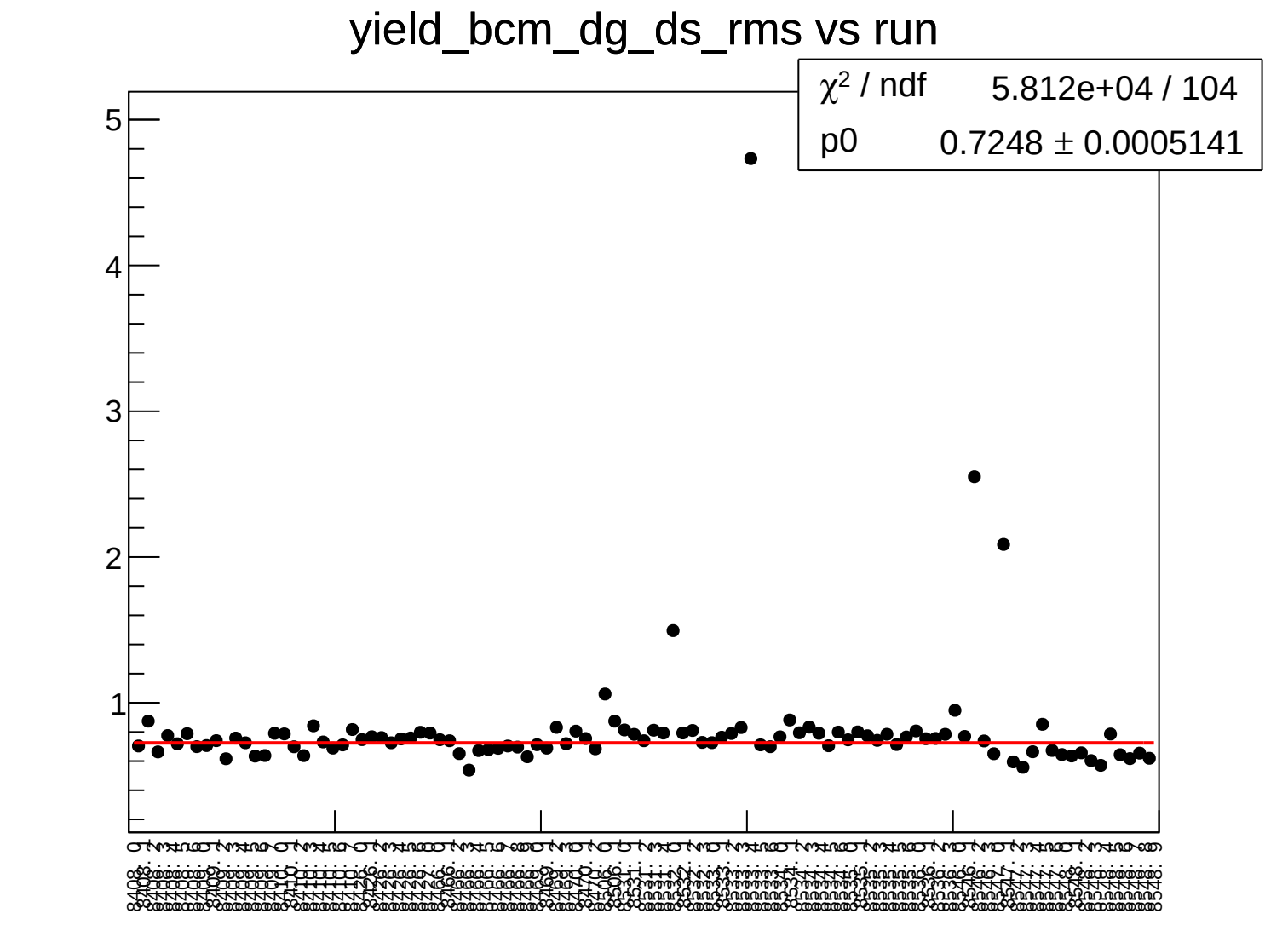

yield_bcm_dg_us_mean vs run
χ² / ndf 1.361e+08 / 104
p0 142 ± 0.0007206
150
145
140
135
130
125
120
pull
Entries 105
Mean −664.4
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000
−2500

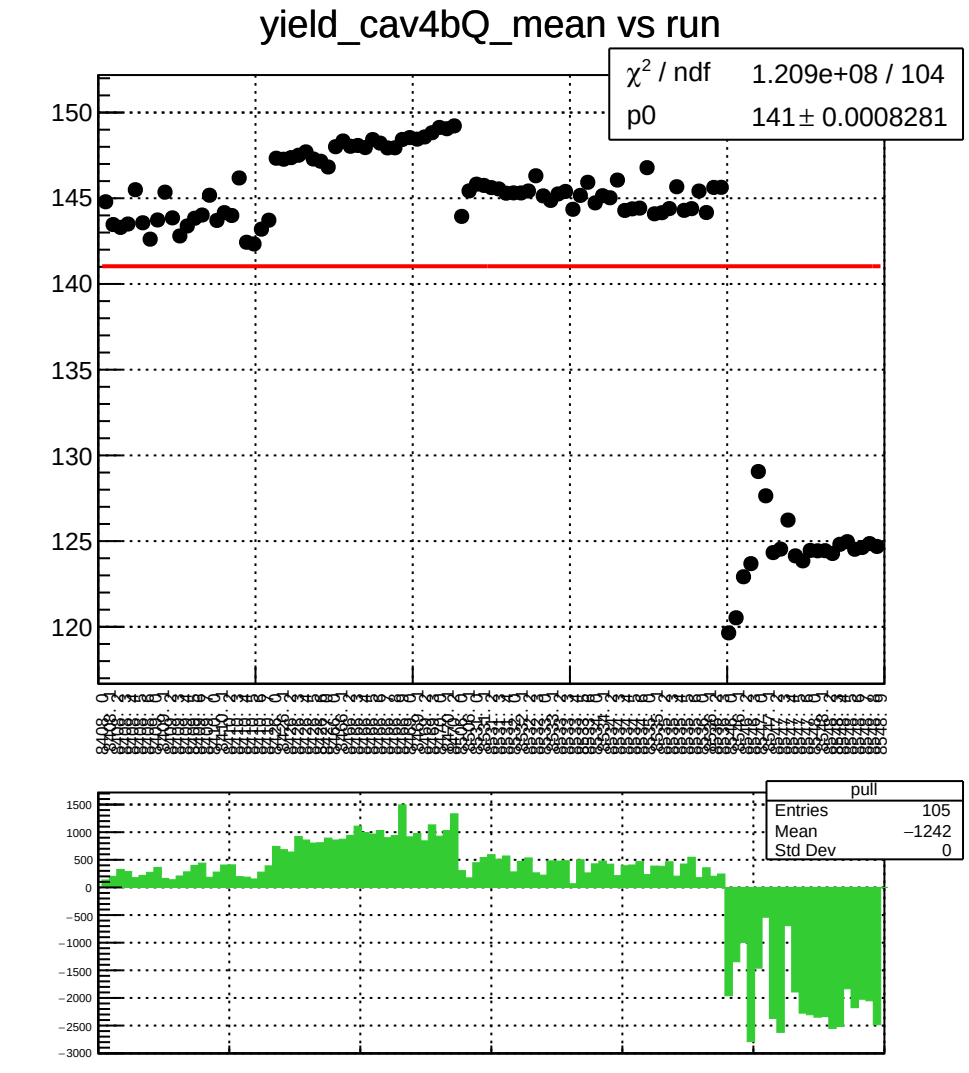

pull1D
Entries 105
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

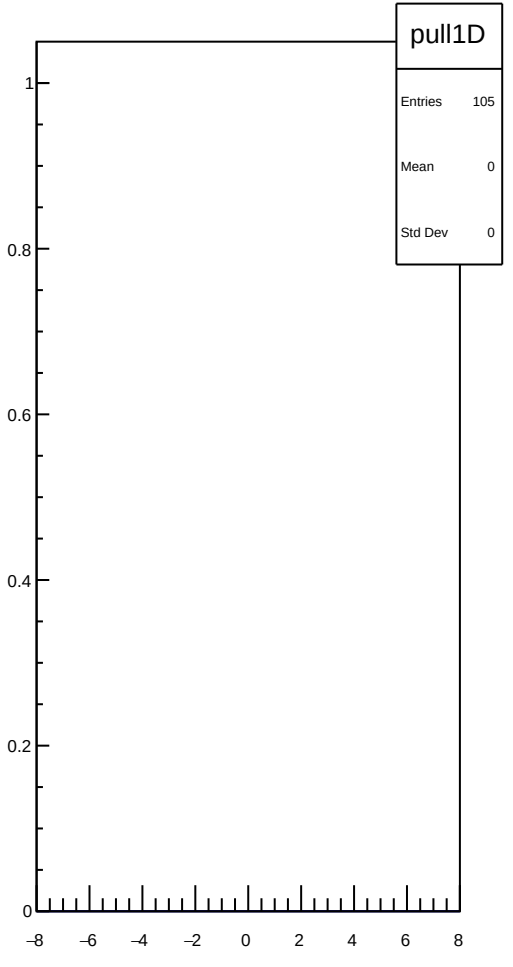

yield_bcm_dg_us_rms vs run
χ² / ndf 5.767e+04 / 104
p0 0.7185 ± 0.0005095
5
4
3
2
1

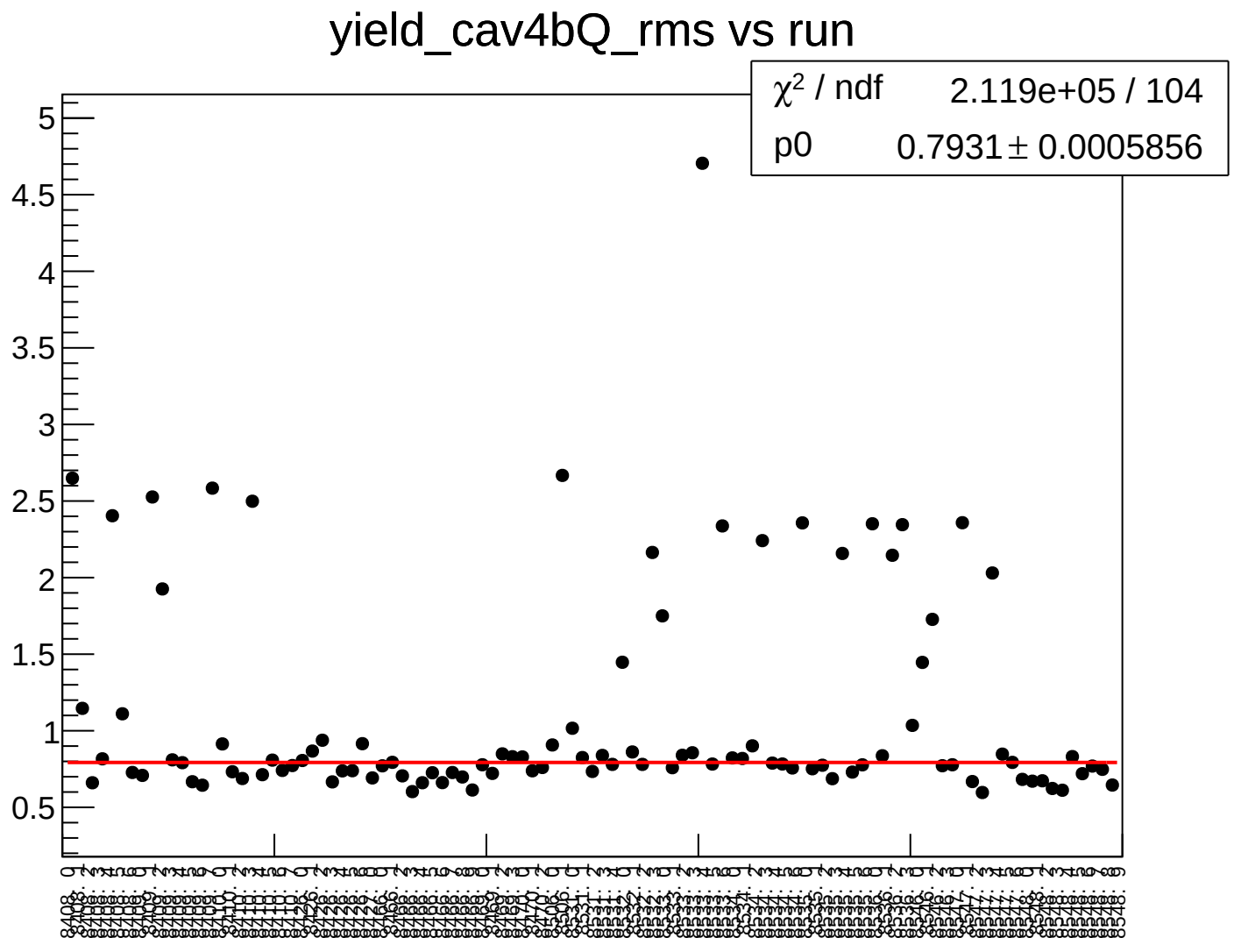

yield_bcm_dg_ds_mean vs run
χ² / ndf 1.341e+08 / 104
p0 141.9 ± 0.000727
150
145
140
135
130
125
120
pull
Entries 105
Mean −635
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000
−2500

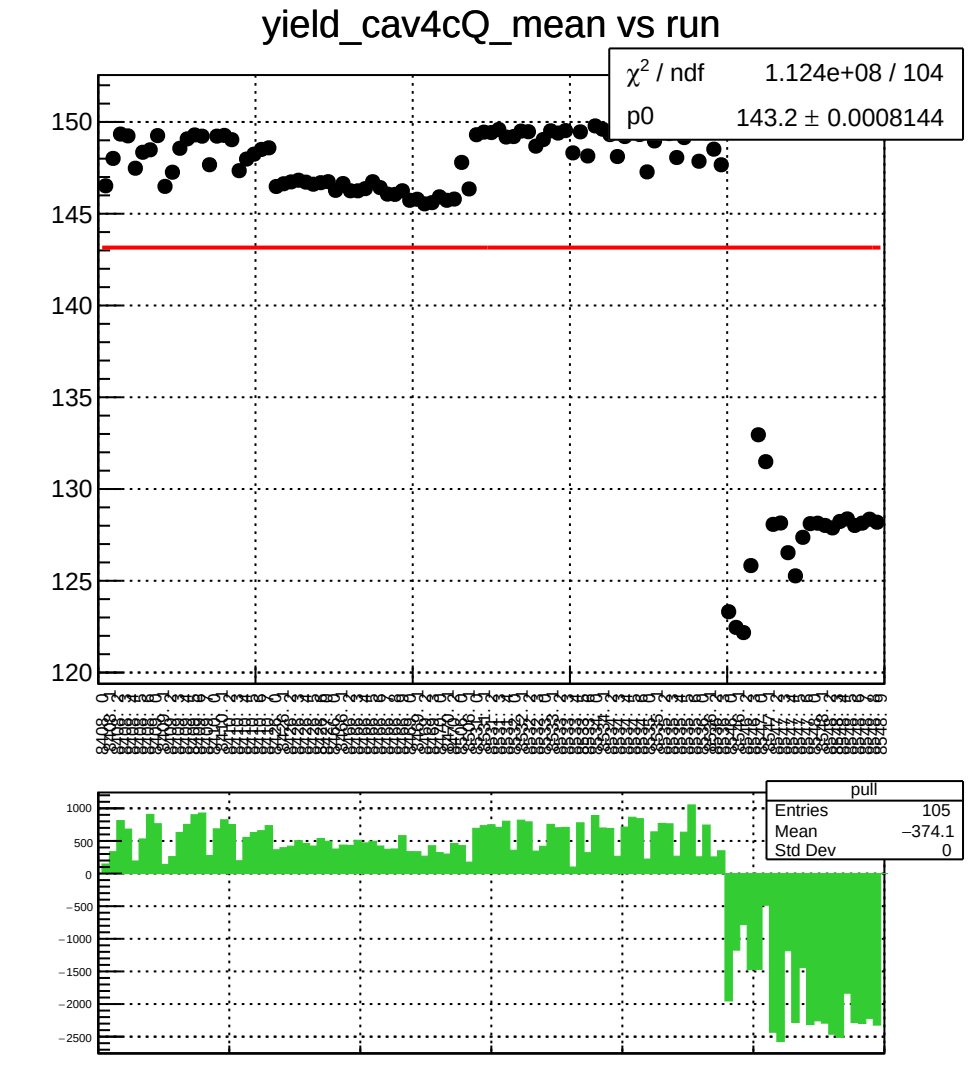

pull1D
Entries 105
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

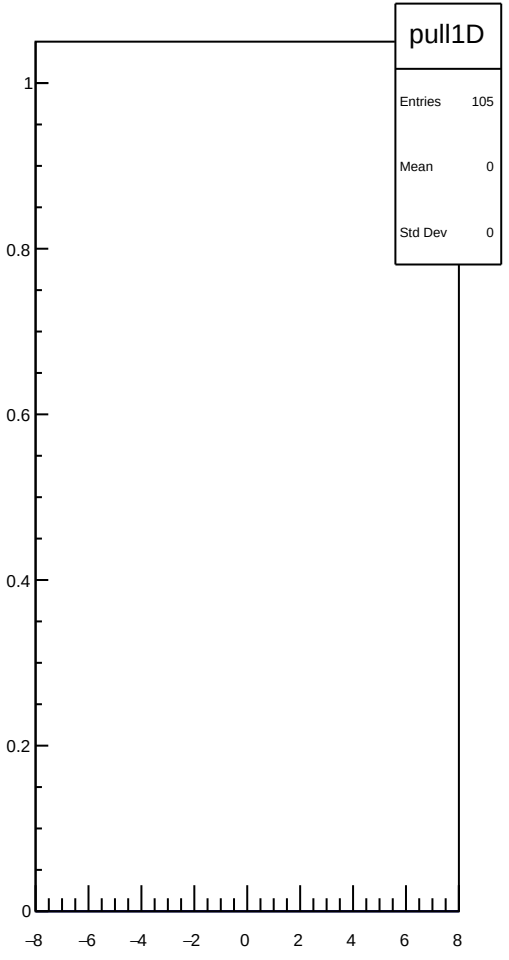

yield_bcm_dg_ds_rms vs run
χ² / ndf 5.812e+04 / 104
p0 0.7248 ± 0.0005141
5
4
3
2
1

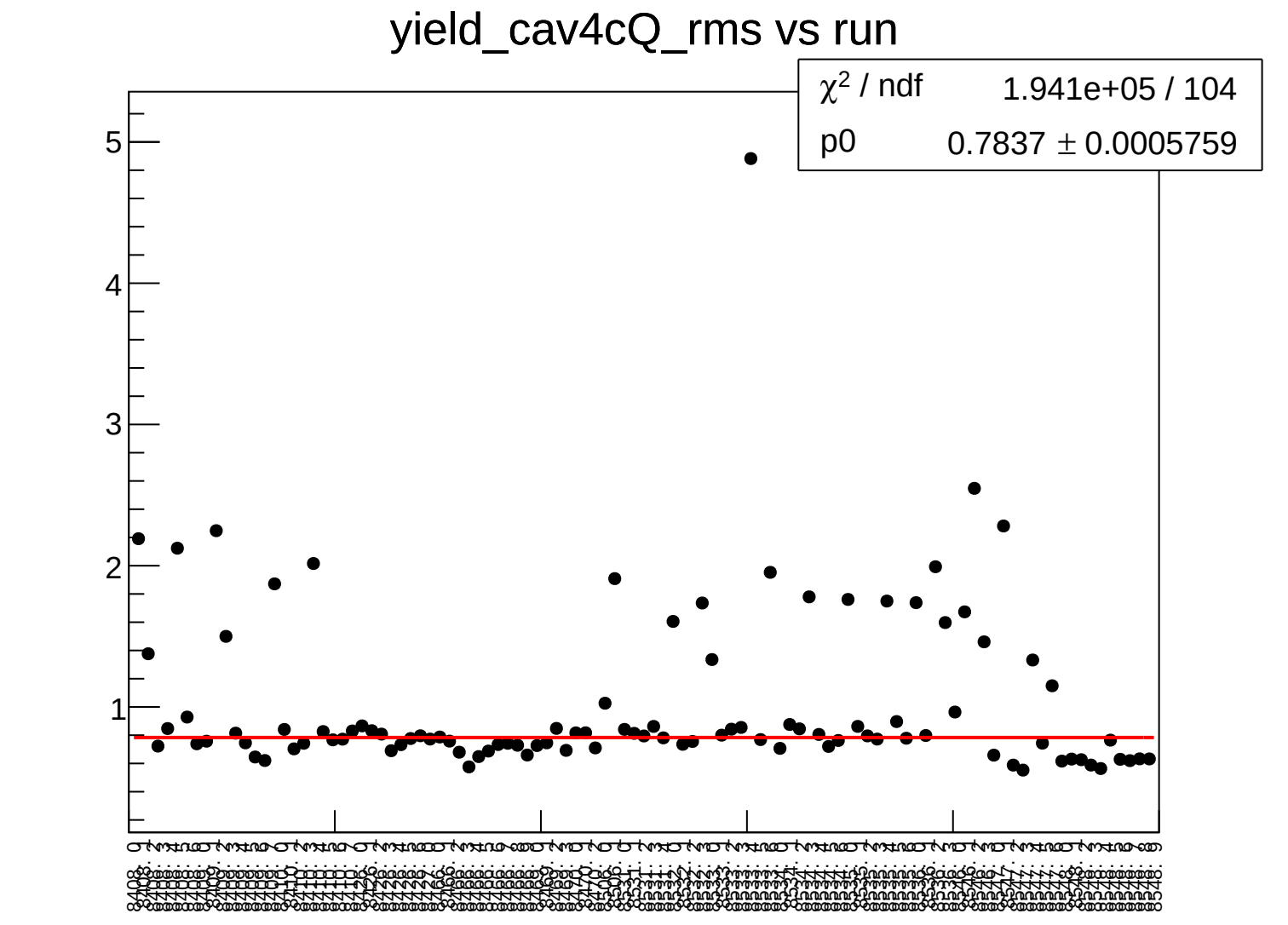

yield_cav4bQ_mean vs run
χ² / ndf 1.209e+08 / 104
p0 141 ± 0.0008281
150
145
140
135
130
125
120
pull
Entries 105
Mean −1242
Std Dev 0
1500
1000
500
0
−500
−1000
−1500
−2000
−2500
−3000

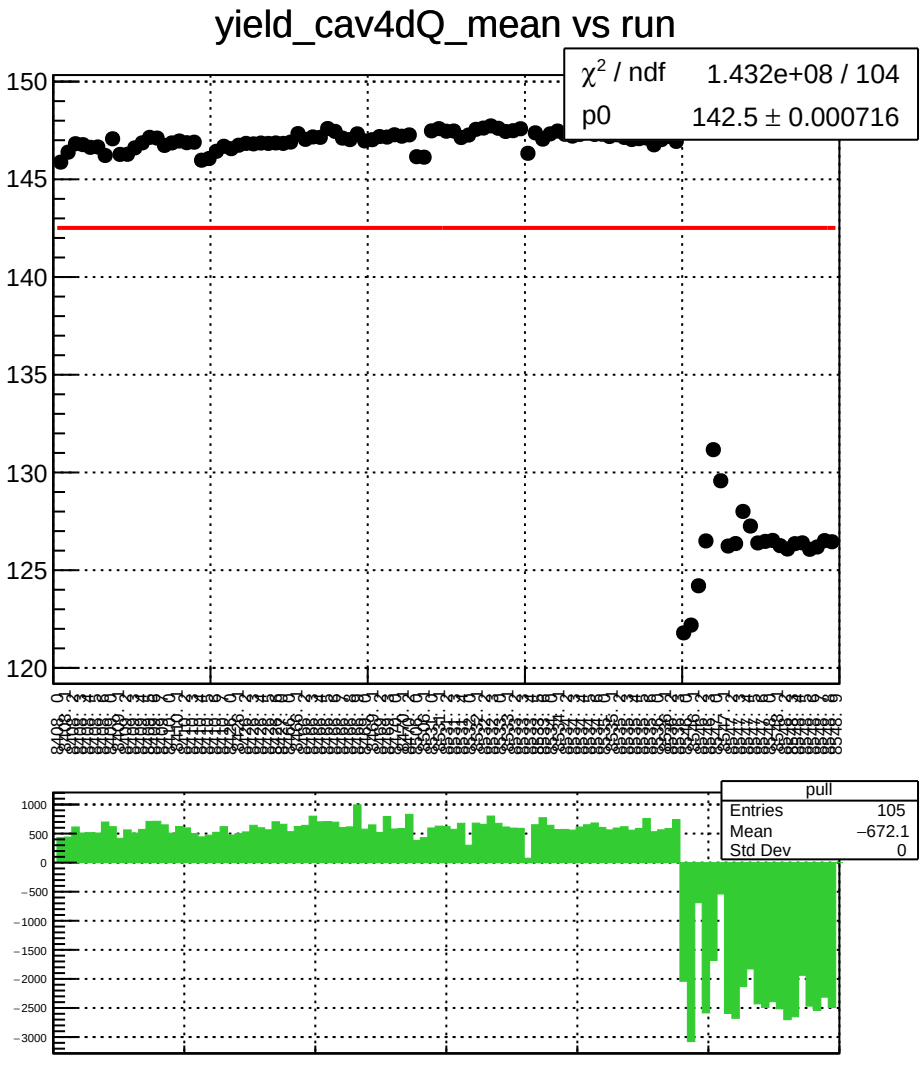

pull1D
Entries 105
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

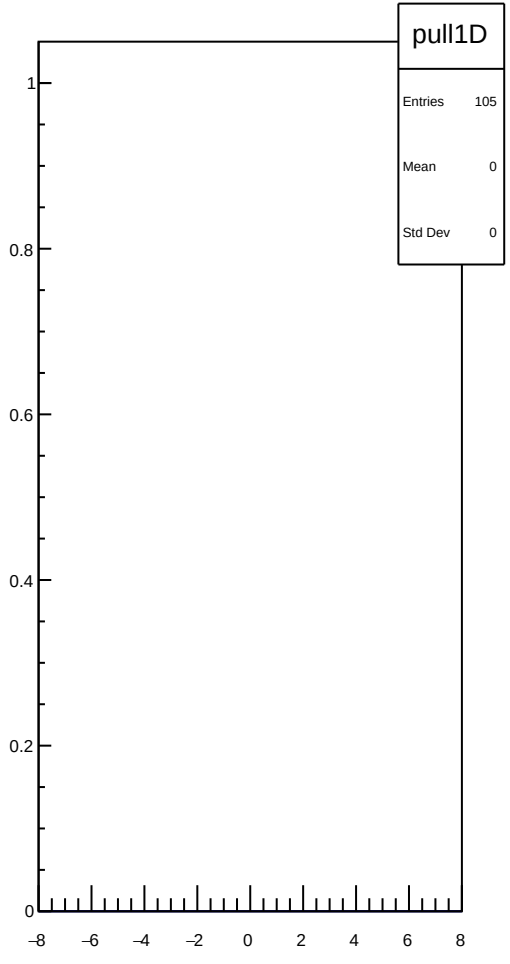

yield_cav4bQ_rms vs run
χ² / ndf 2.119e+05 / 104
p0 0.7931 ± 0.0005856
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5

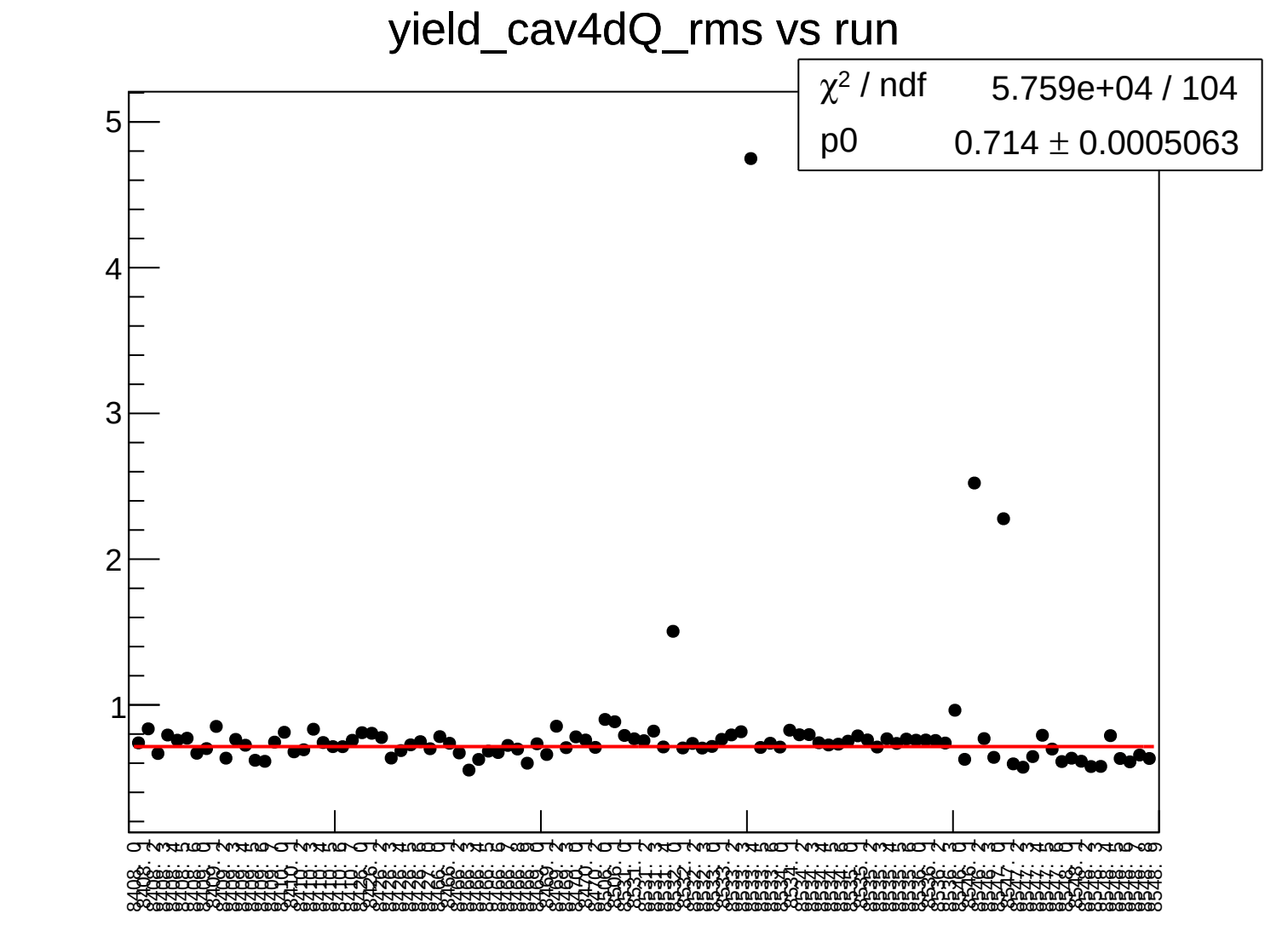

yield_cav4cQ_mean vs run
χ² / ndf 1.124e+08 / 104
p0 143.2 ± 0.0008144
150
145
140
135
130
125
120
pull
Entries 105
Mean −374.1
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000
−2500

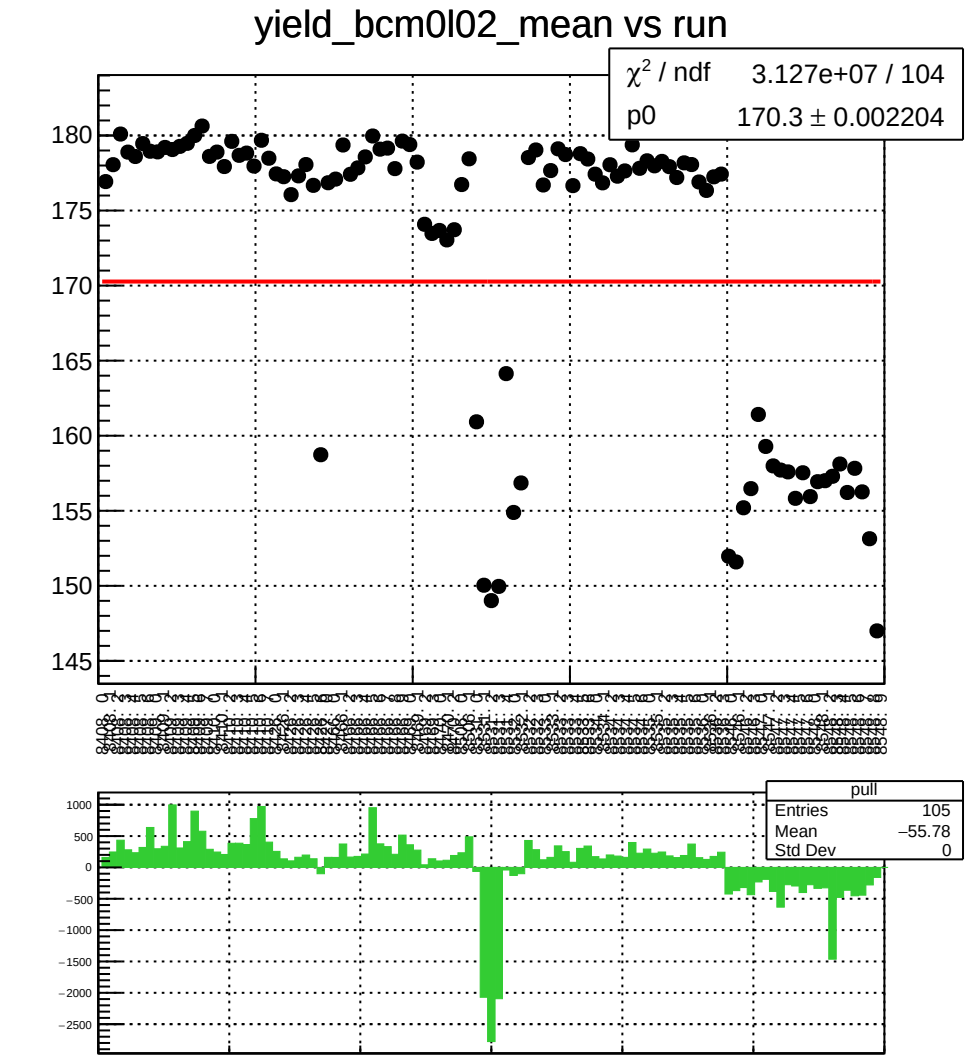

pull1D
Entries 105
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

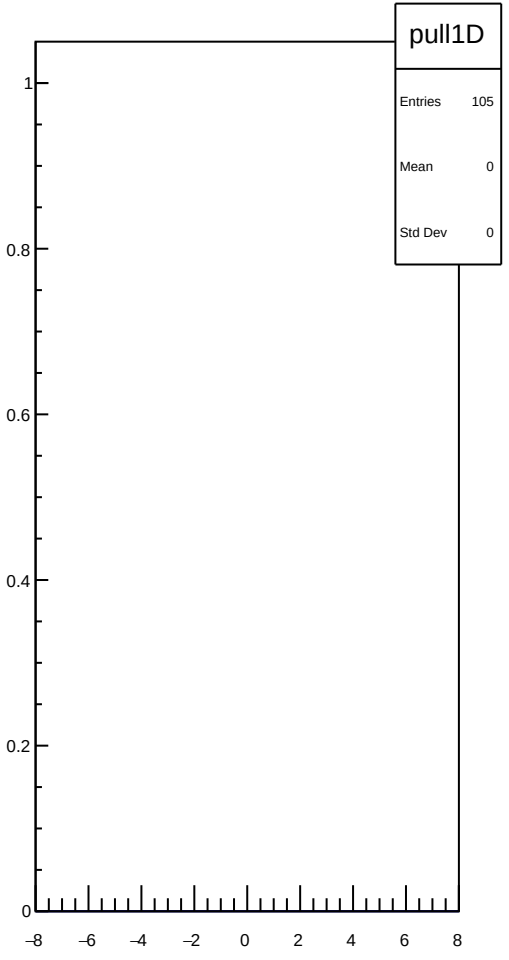

yield_cav4cQ_rms vs run
χ² / ndf 1.941e+05 / 104
p0 0.7837 ± 0.0005759
5
4
3
2
1

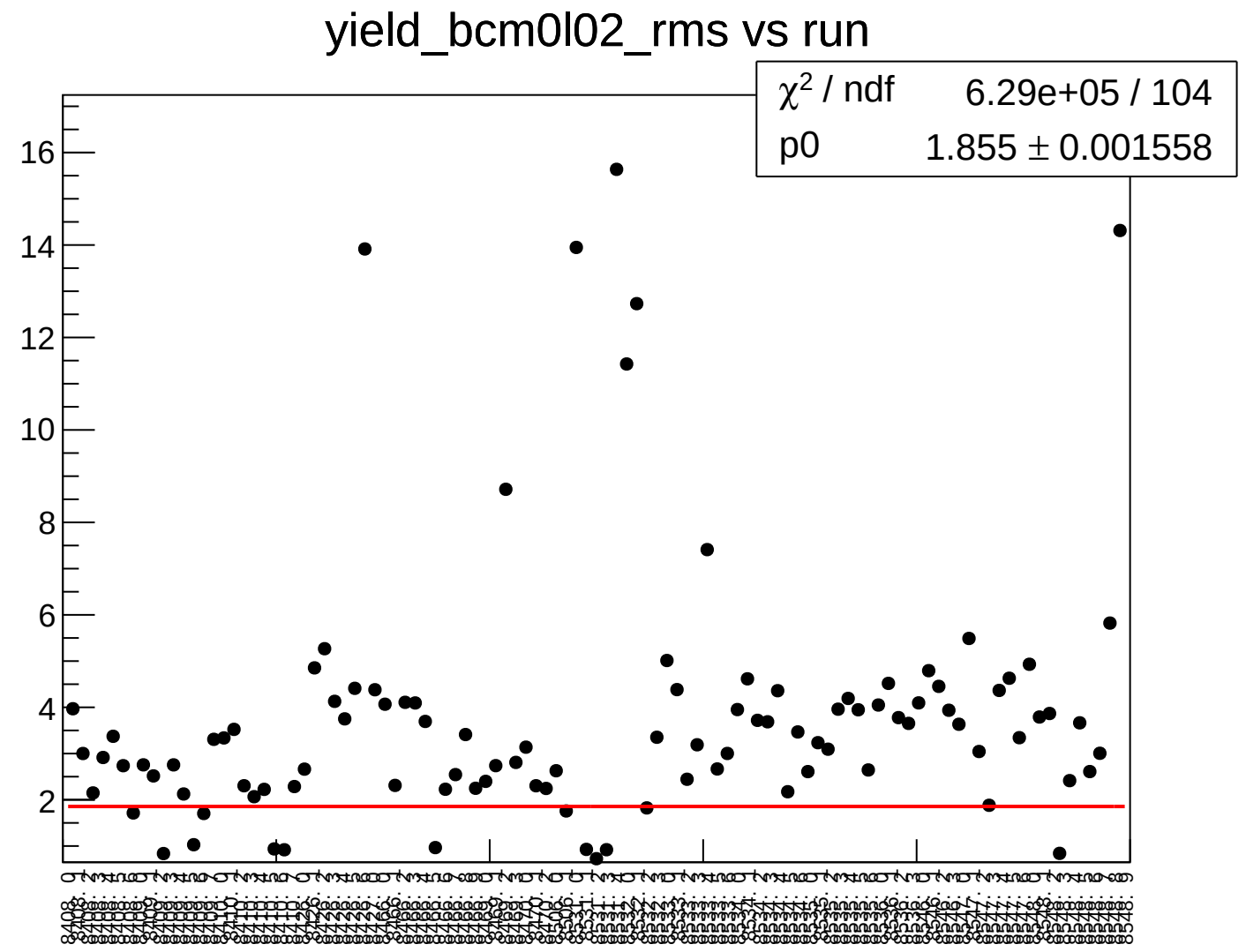

yield_cav4dQ_mean vs run
χ² / ndf 1.432e+08 / 104
p0 142.5 ± 0.000716
150
145
140
135
130
125
120
pull
Entries 105
Mean −672.1
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000
−2500
−3000

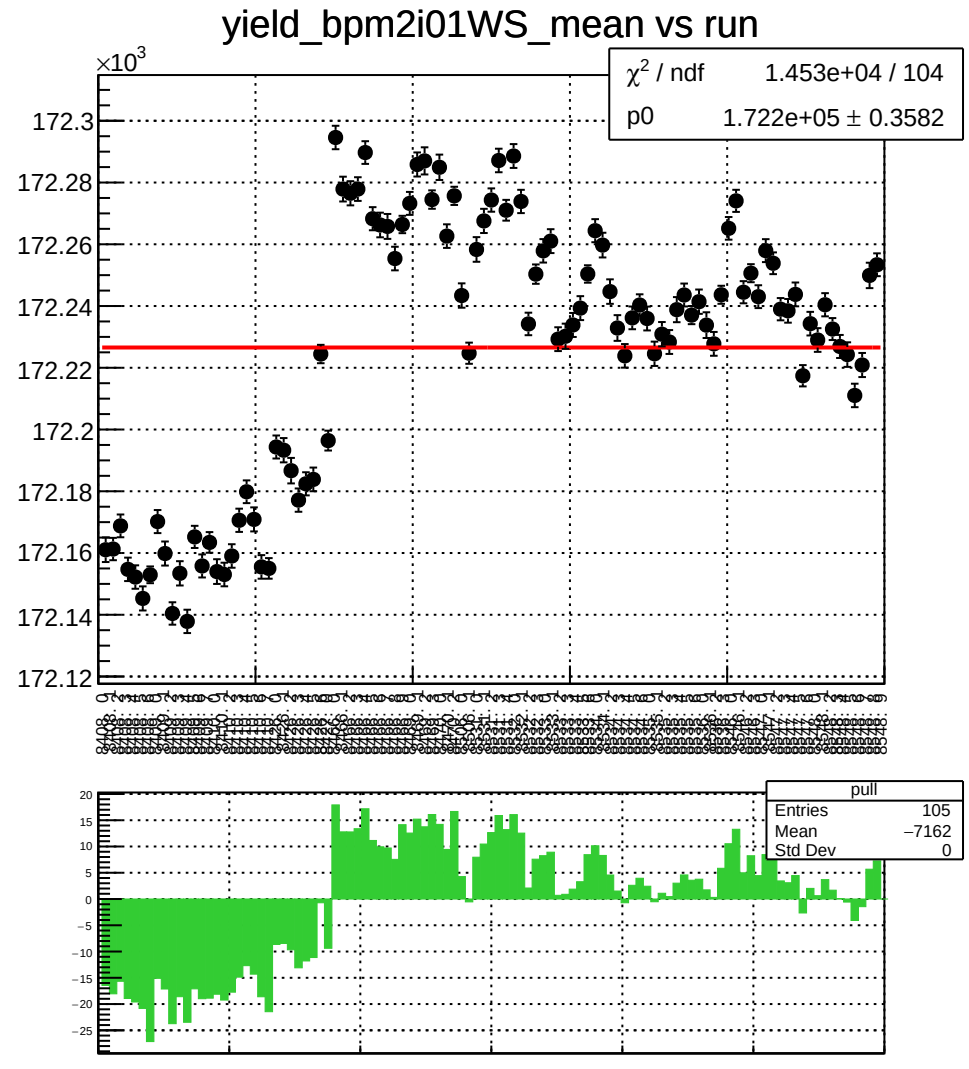

pull1D
Entries 105
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

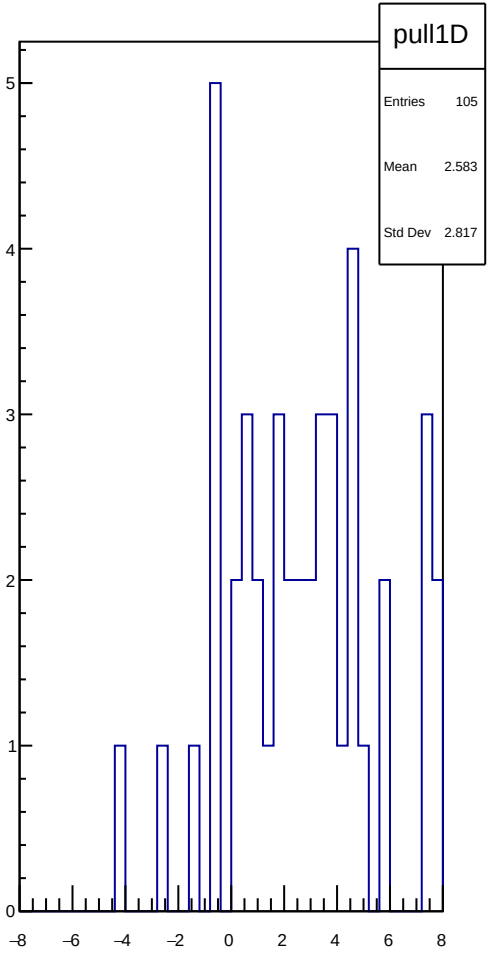

yield_cav4dQ_rms vs run
χ² / ndf 5.759e+04 / 104
p0 0.714 ± 0.0005063
5
4
3
2
1

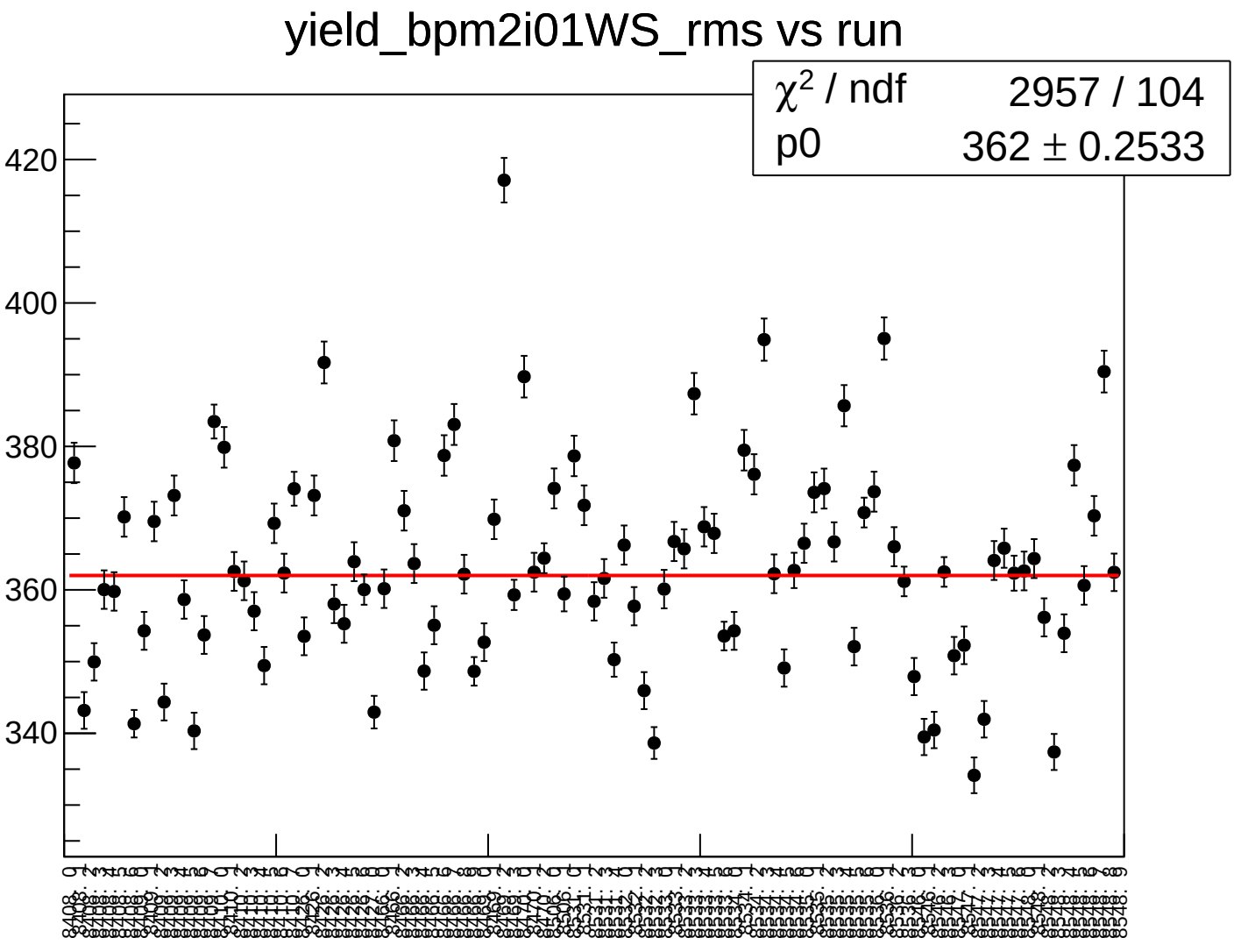

yield_bcm0l02_mean vs run
χ² / ndf 3.127e+07 / 104
p0 170.3 ± 0.002204
180
175
170
165
160
155
150
145
pull
Entries 105
Mean −55.78
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000
−2500

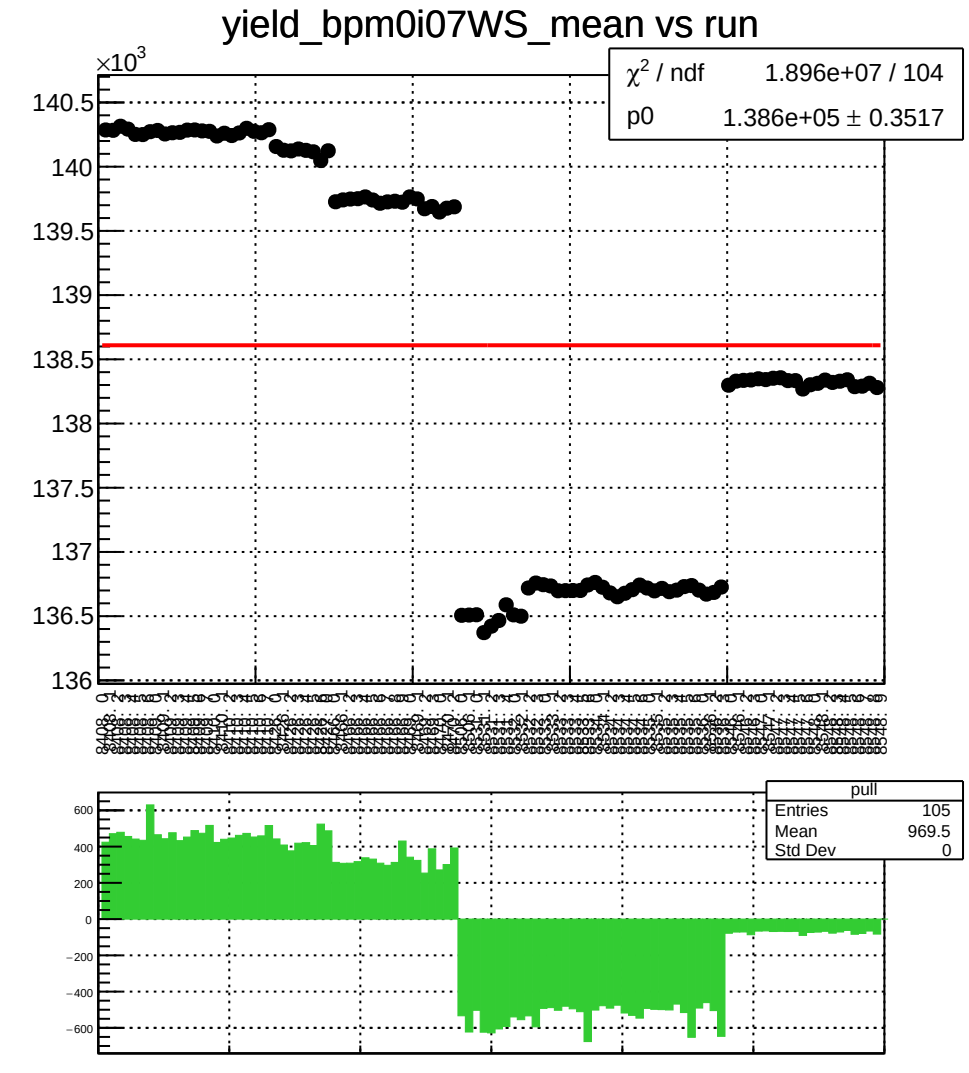

pull1D
Entries 105
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

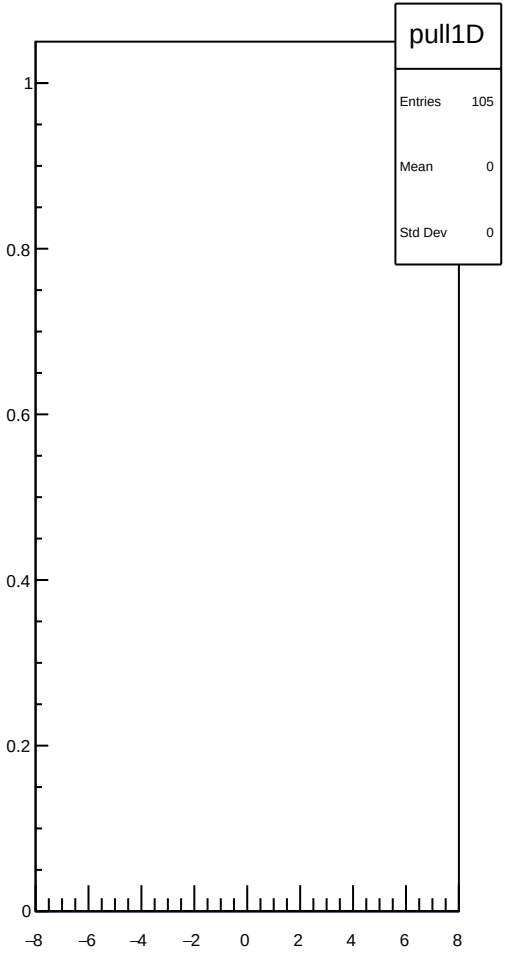

yield_bcm0l02_rms vs run
χ^2 / ndf 6.29e+05 / 104
p0 1.855 ± 0.001558
16
14
12
10
8
6
4
2

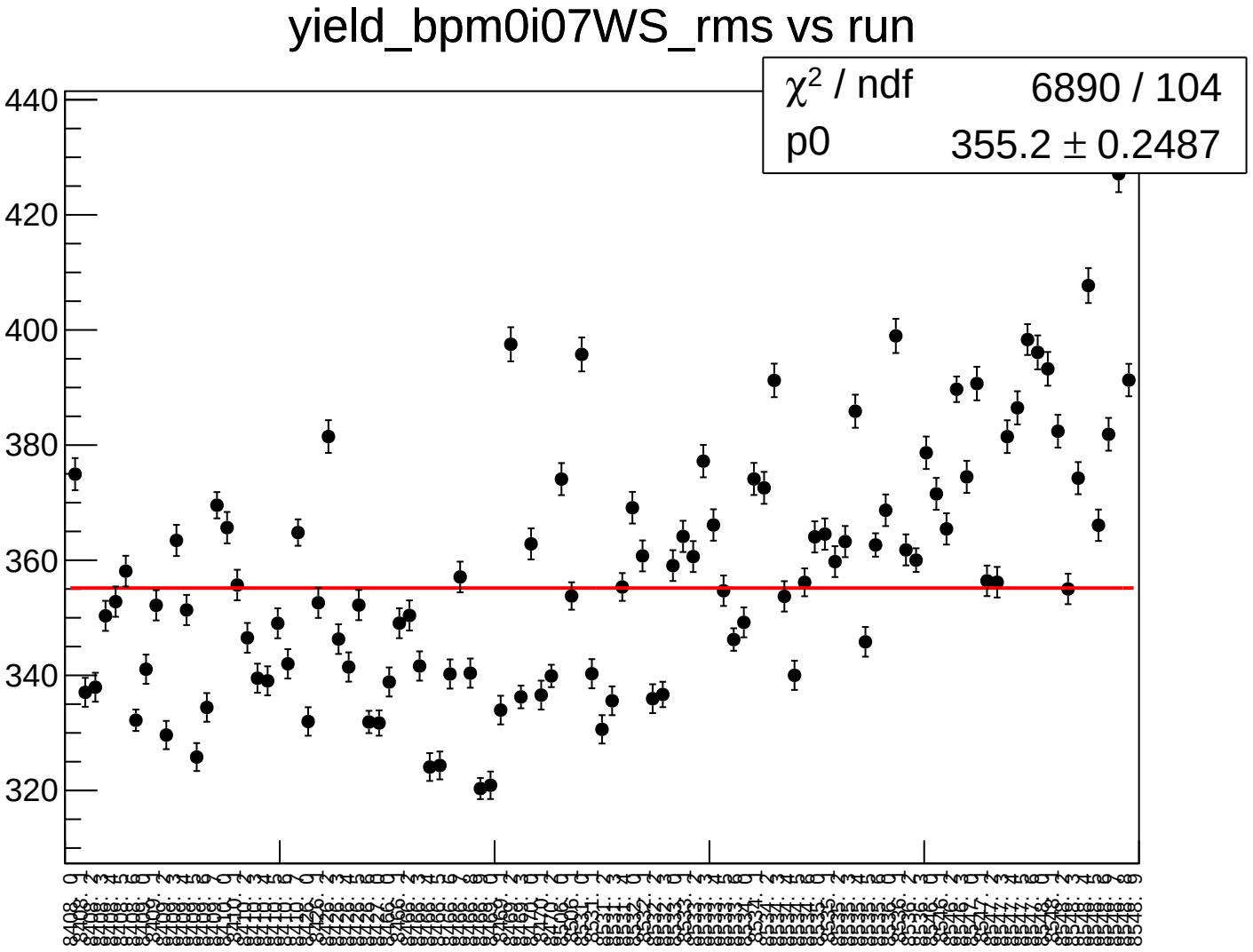

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 1.453e+04 / 104
p0 1.722e+05 ± 0.3582
172.3
172.28
172.26
172.24
172.22
172.2
172.18
172.16
172.14
172.12
pull
Entries 105
Mean −7162
Std Dev 0
20
15
10
5
0
−5
−10
−15
−20
−25

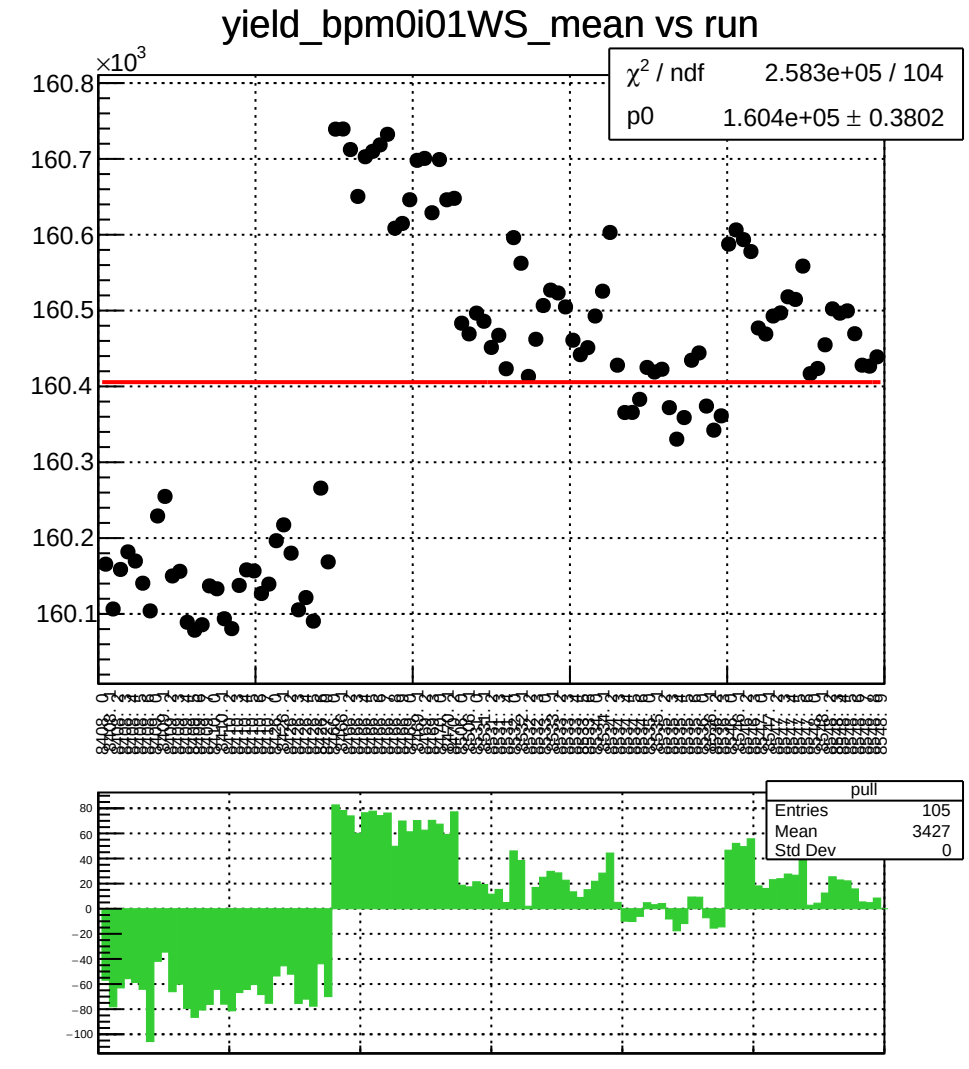

pull1D
Entries 105
Mean 2.583
Std Dev 2.817
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

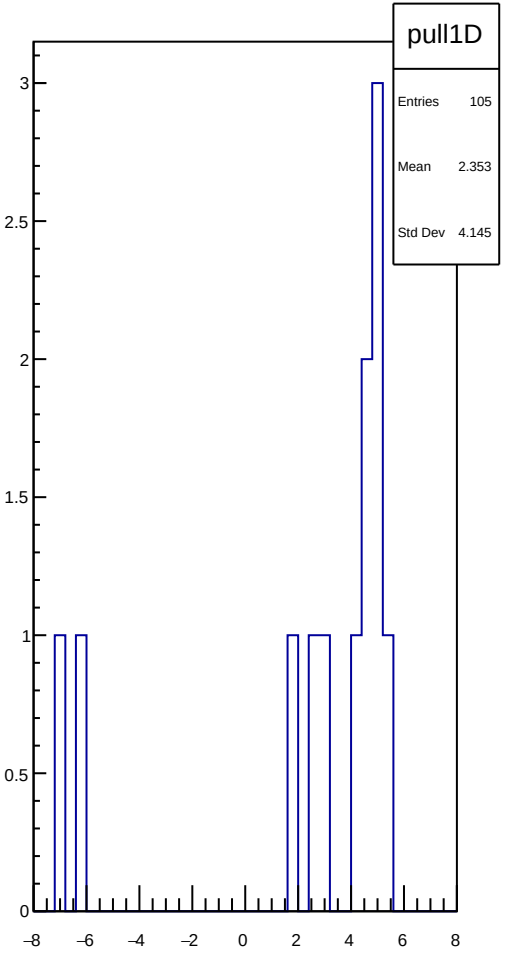

yield_bpm2i01WS_rms vs run
χ² / ndf 2957 / 104
p0 362 ± 0.2533
420
400
380
360
340

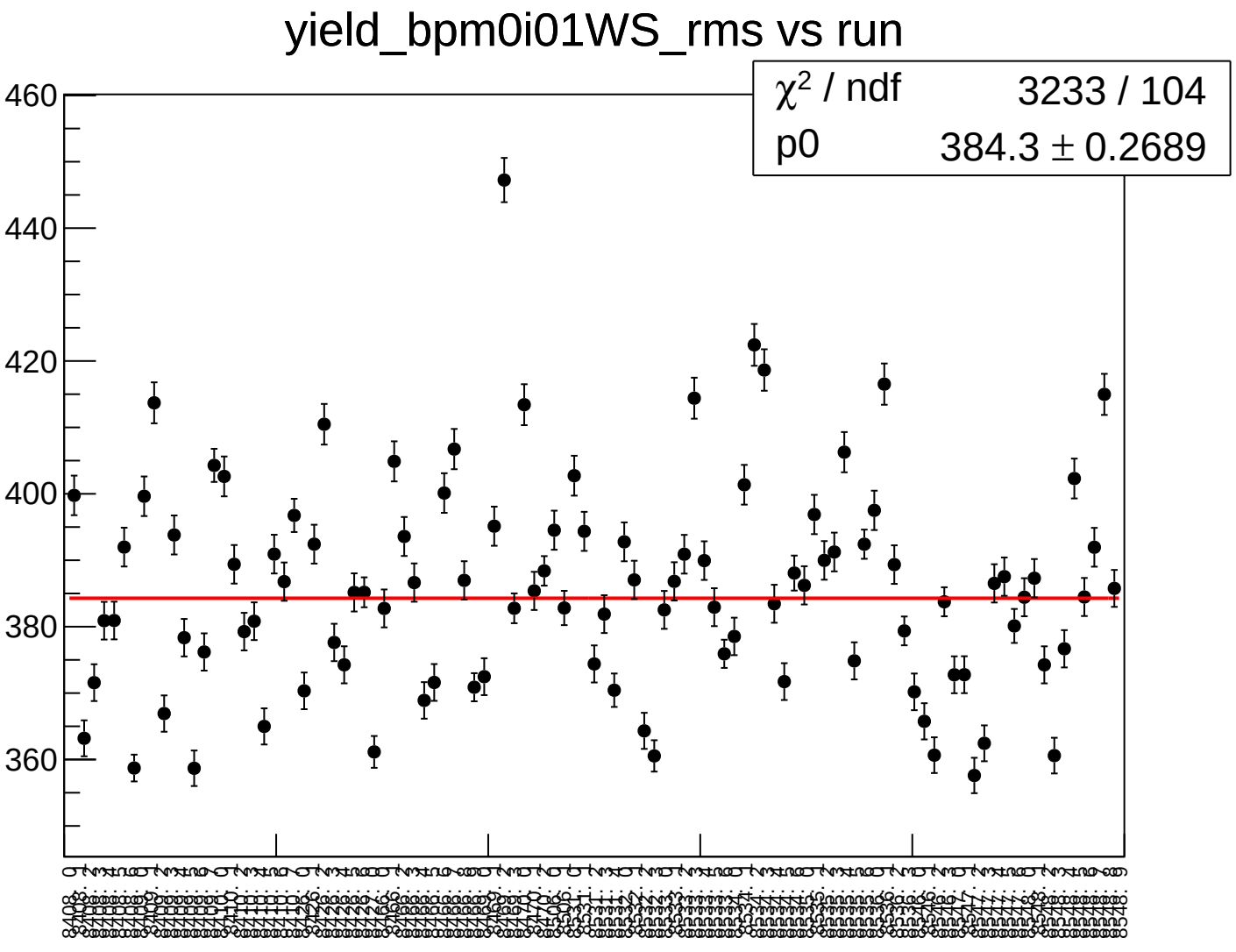

yield_bpm0i07WS_mean vs run
×10^3
χ^2 / ndf 1.896e+07 / 104
p0 1.386e+05 ± 0.3517
140.5
140
139.5
139
138.5
138
137.5
137
136.5
136
pull
Entries 105
Mean 969.5
Std Dev 0
600
400
200
0
−200
−400
−600

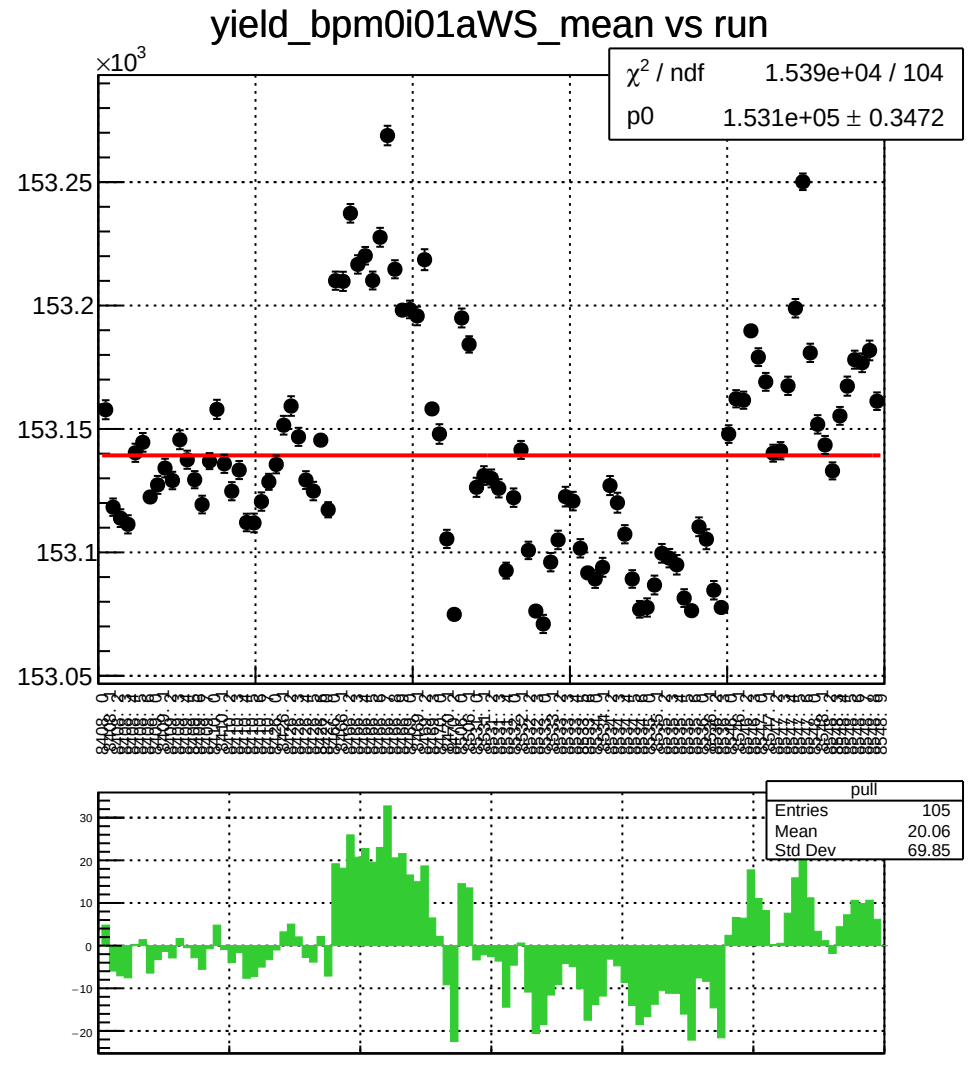

pull1D
Entries 105
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

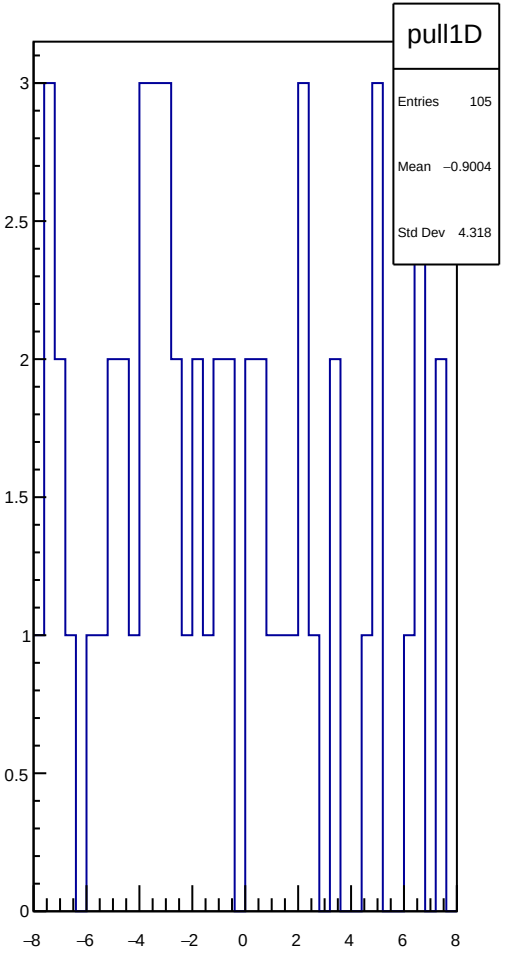

yield_bpm0i07WS_rms vs run
χ² / ndf 6890 / 104
p0 355.2 ± 0.2487
440
420
400
380
360
340
320

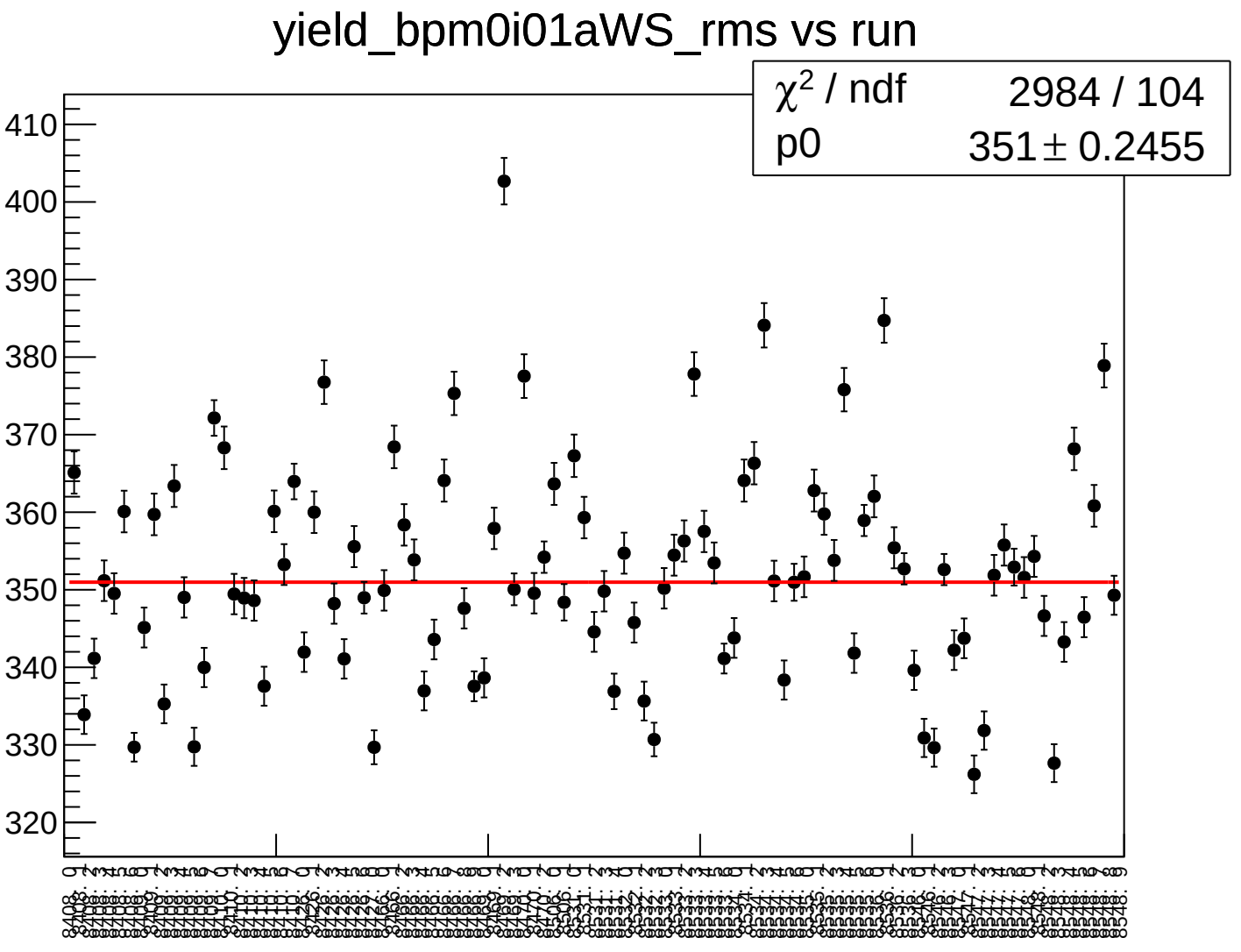

yield_bpm0i01WS_mean vs run
×10^3
160.8
160.7
160.6
160.5
160.4
160.3
160.2
160.1
χ² / ndf 2.583e+05 / 104
p0 1.604e+05 ± 0.3802
pull
Entries 105
Mean 3427
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
−100

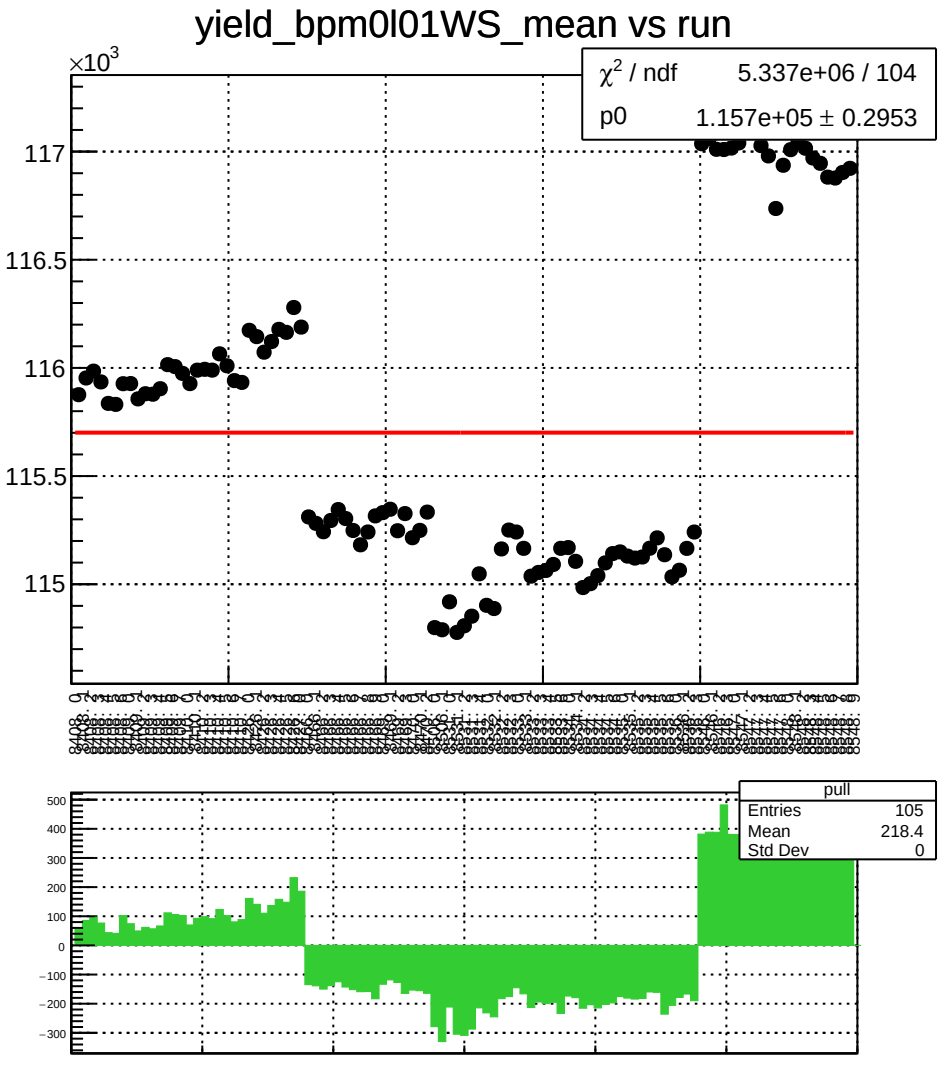

pull1D
Entries 105
Mean 2.353
Std Dev 4.145
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

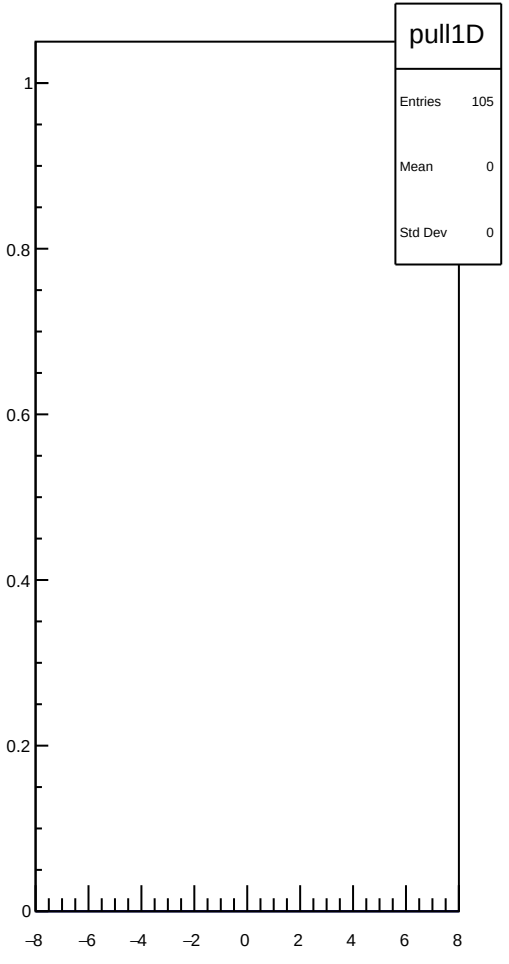

yield_bpm0i01WS_rms vs run
χ² / ndf 3233 / 104
p0 384.3 ± 0.2689
460
440
420
400
380
360

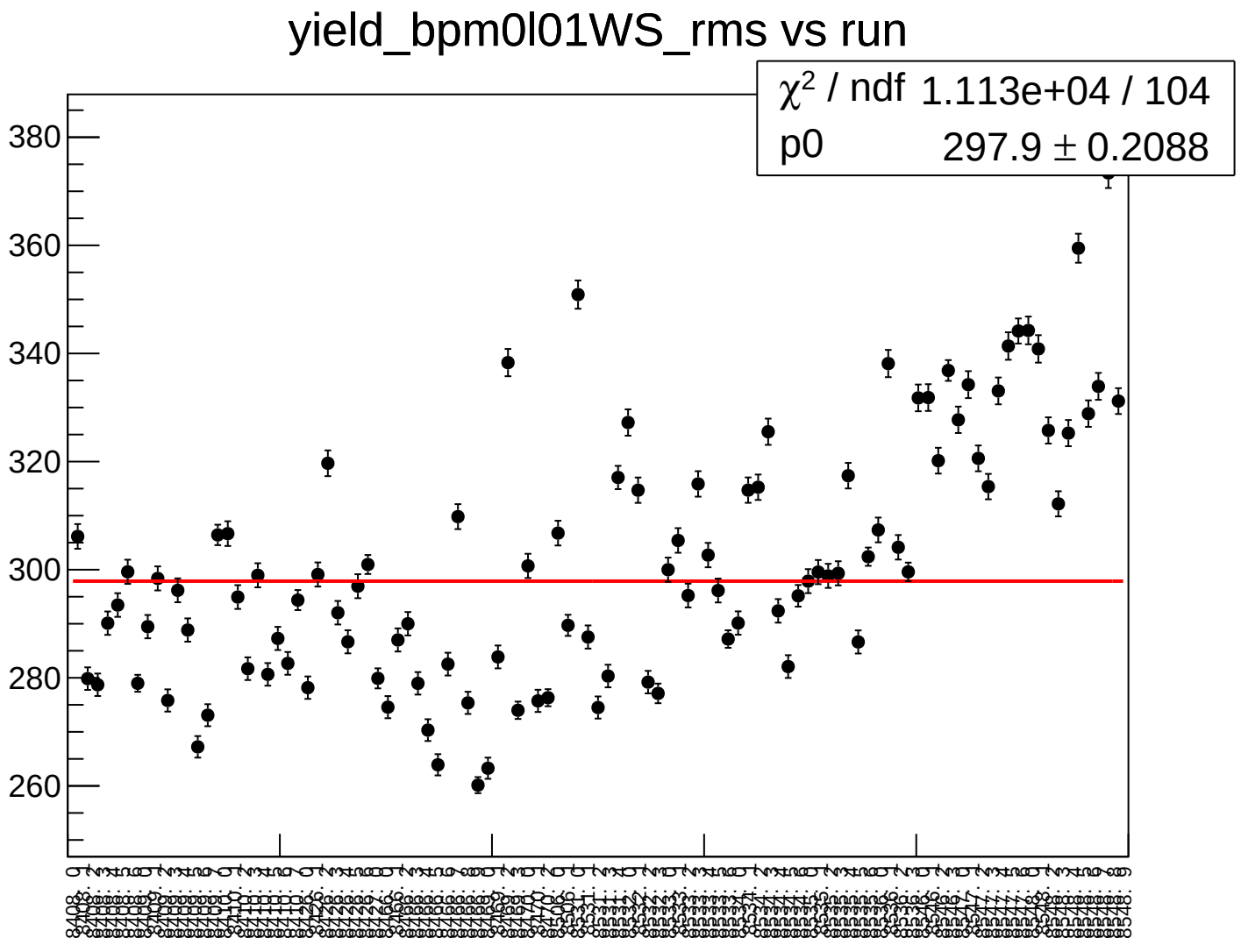

yield_bpm0i01aWS_mean vs run
×10^3
χ^2 / ndf 1.539e+04 / 104
p0 1.531e+05 ± 0.3472
153.25
153.2
153.15
153.1
153.05
pull
Entries 105
Mean 20.06
Std Dev 69.85
30
20
10
0
−10
−20

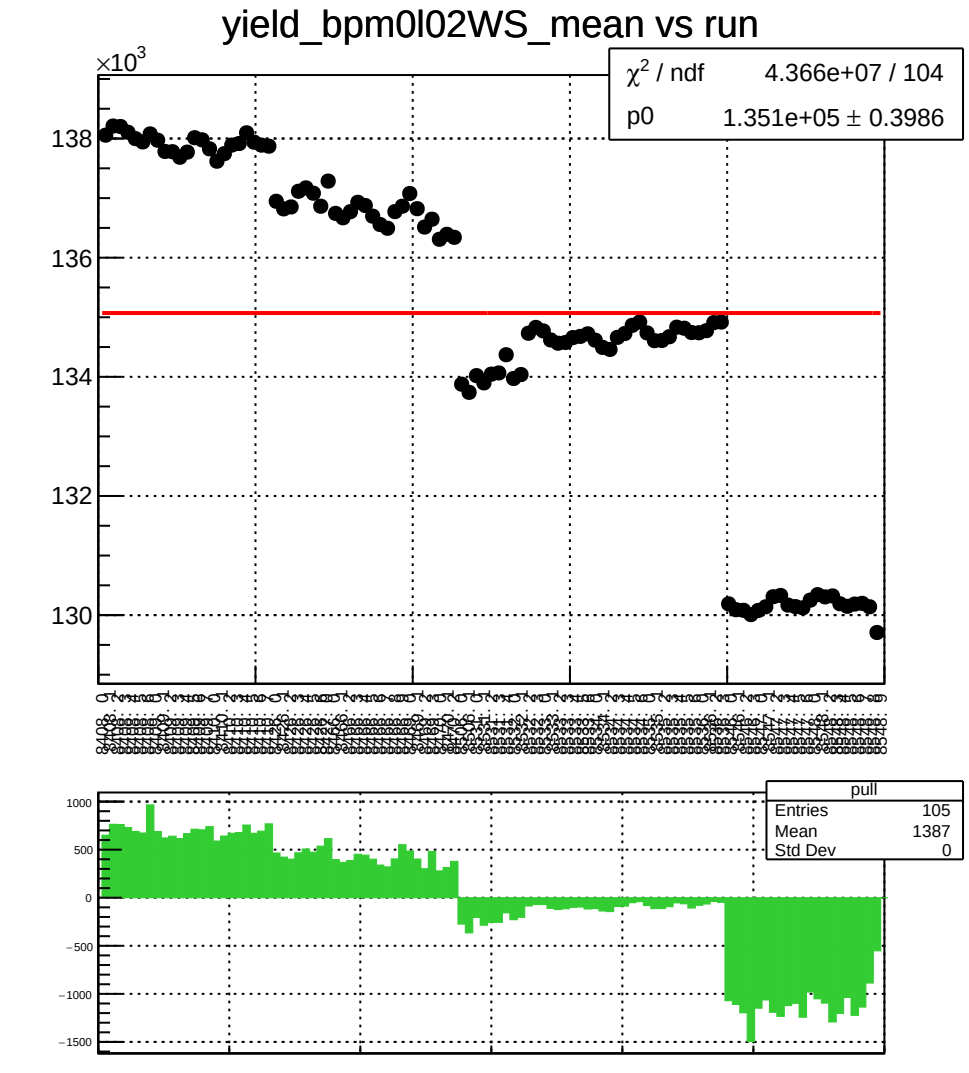

pull1D
Entries 105
Mean −0.9004
Std Dev 4.318
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

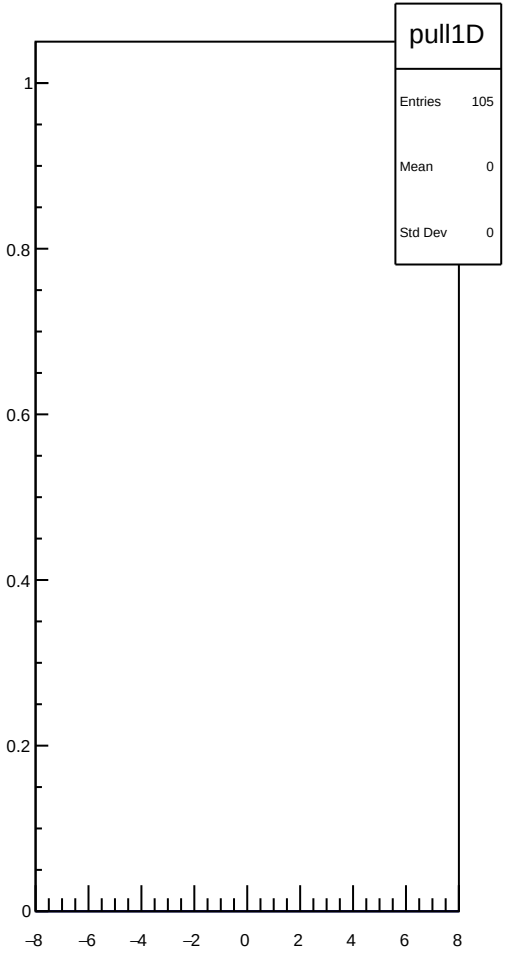

yield_bpm0i01aWS_rms vs run
χ² / ndf 2984 / 104
p0 351 ± 0.2455
410
400
390
380
370
360
350
340
330
320

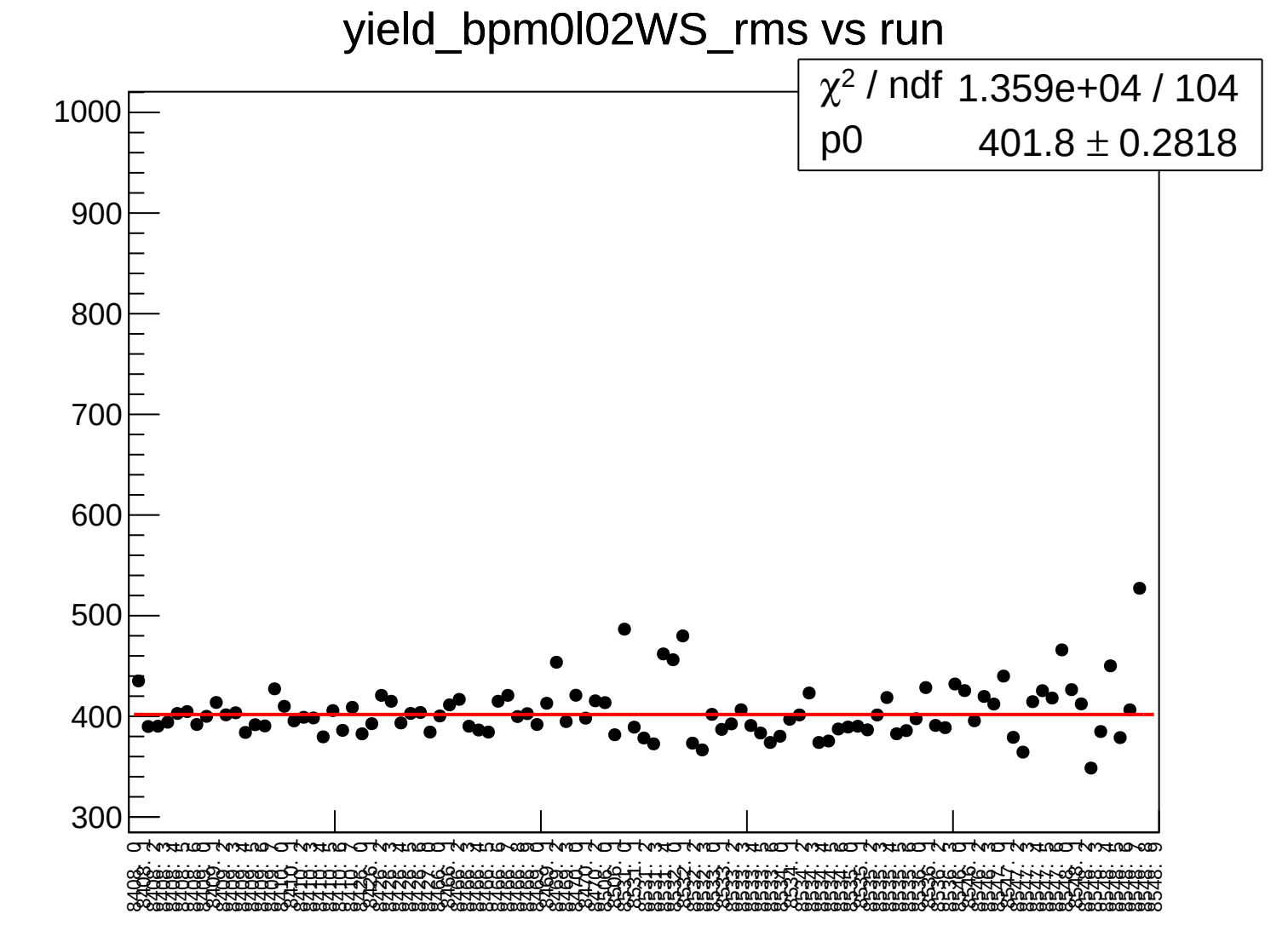

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 5.337e+06 / 104
p0 1.157e+05 ± 0.2953
117
116.5
116
115.5
115
pull
Entries 105
Mean 218.4
Std Dev 0
500
400
300
200
100
0
−100
−200
−300

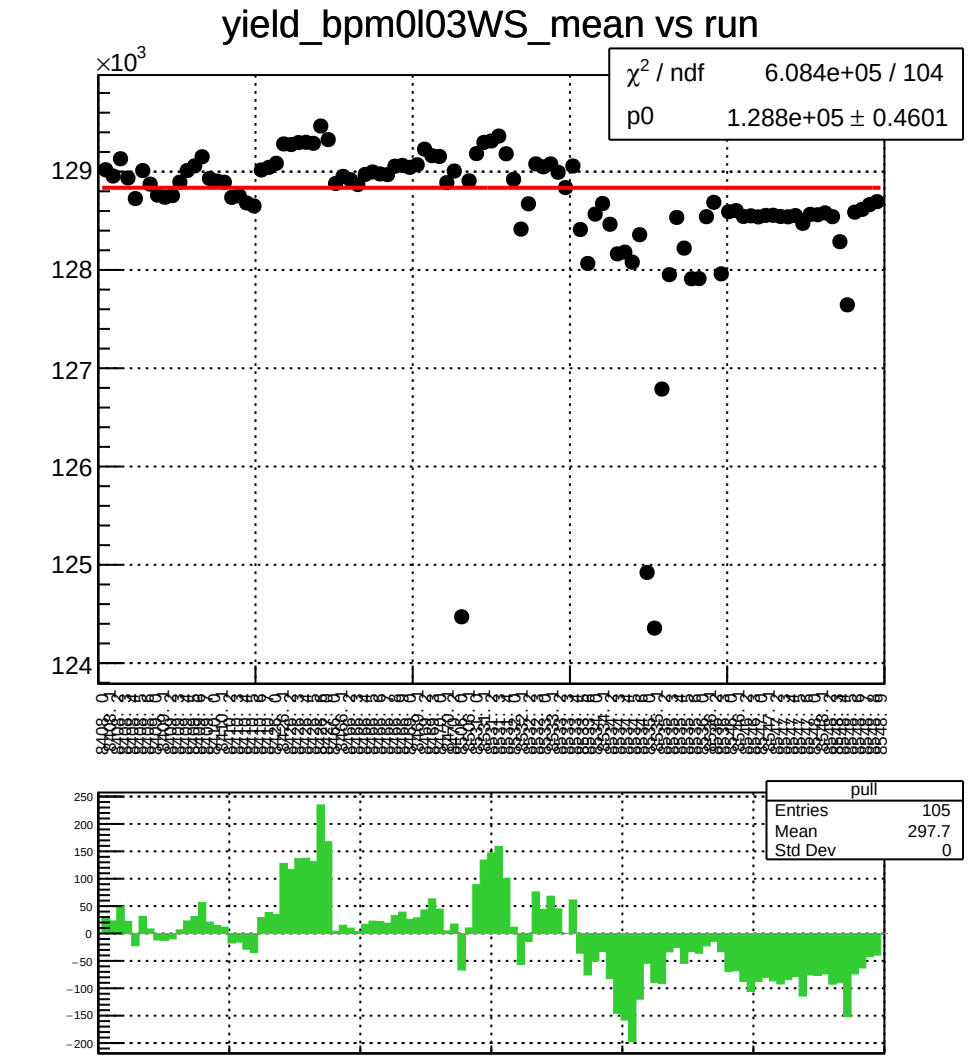

pull1D
Entries 105
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

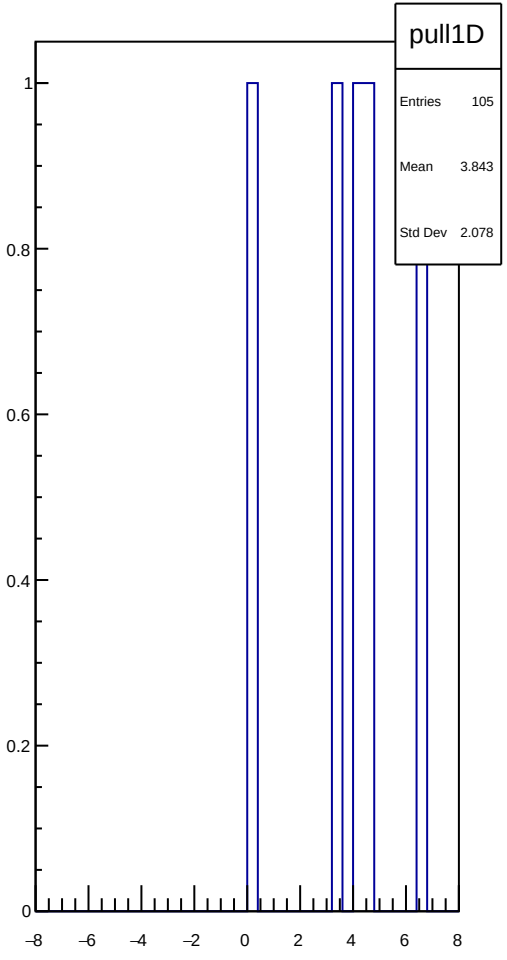

yield_bpm0l01WS_rms vs run
χ² / ndf 1.113e+04 / 104
p0 297.9 ± 0.2088
380
360
340
320
300
280
260

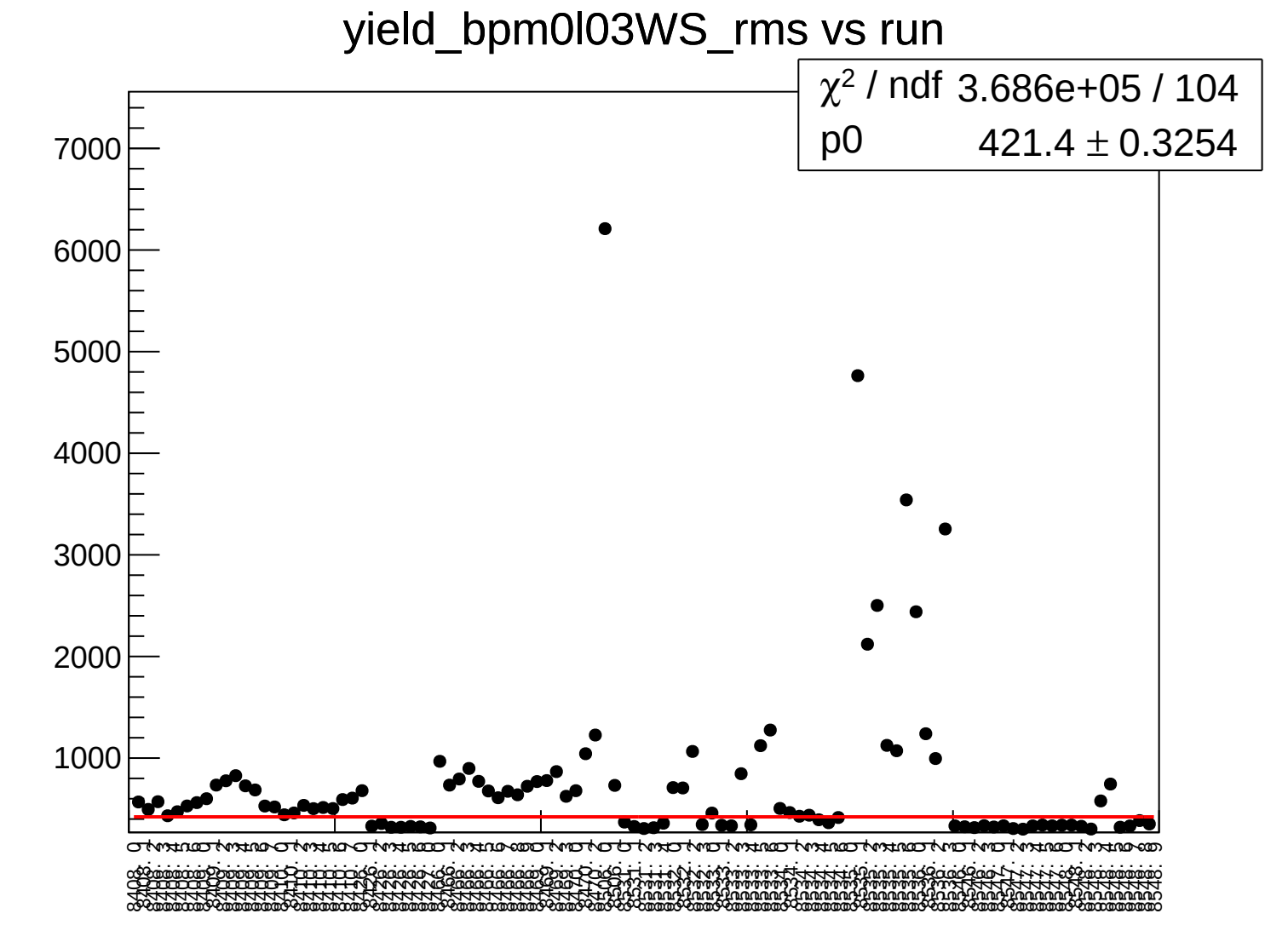

yield_bpm0l02WS_mean vs run
×10^3
χ² / ndf 4.366e+07 / 104
p0 1.351e+05 ± 0.3986
138
136
134
132
130
pull
Entries 105
Mean 1387
Std Dev 0
1000
500
0
−500
−1000
−1500

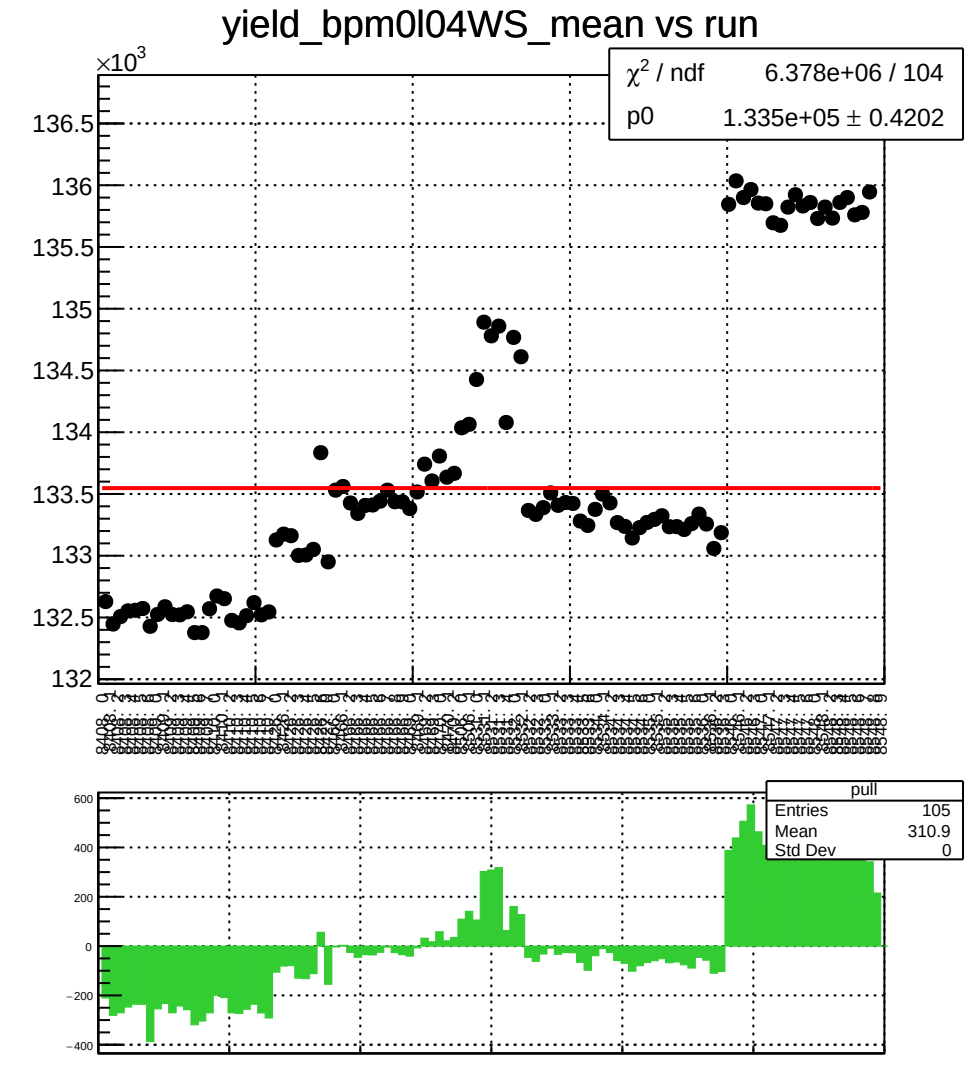

pull1D
Entries 105
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

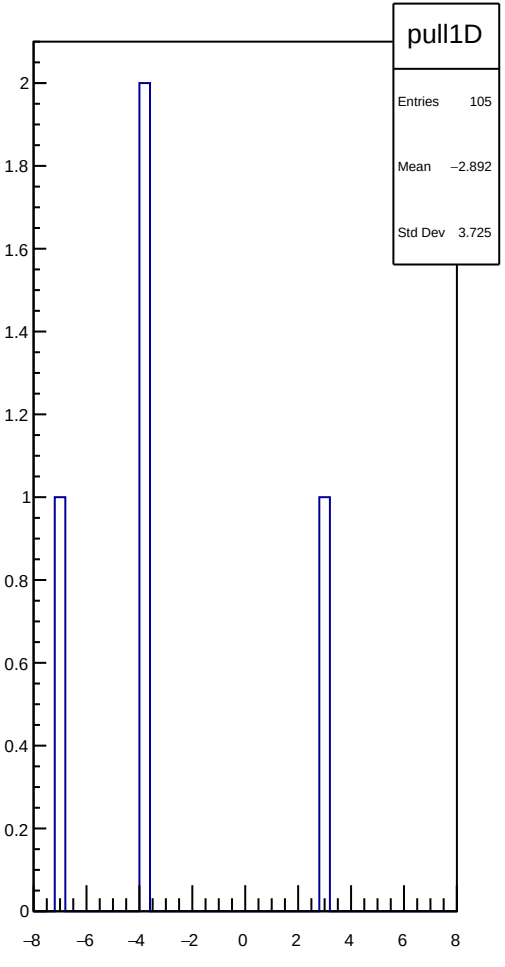

yield_bpm0l02WS_rms vs run
χ² / ndf 1.359e+04 / 104
p0 401.8 ± 0.2818
1000
900
800
700
600
500
400
300

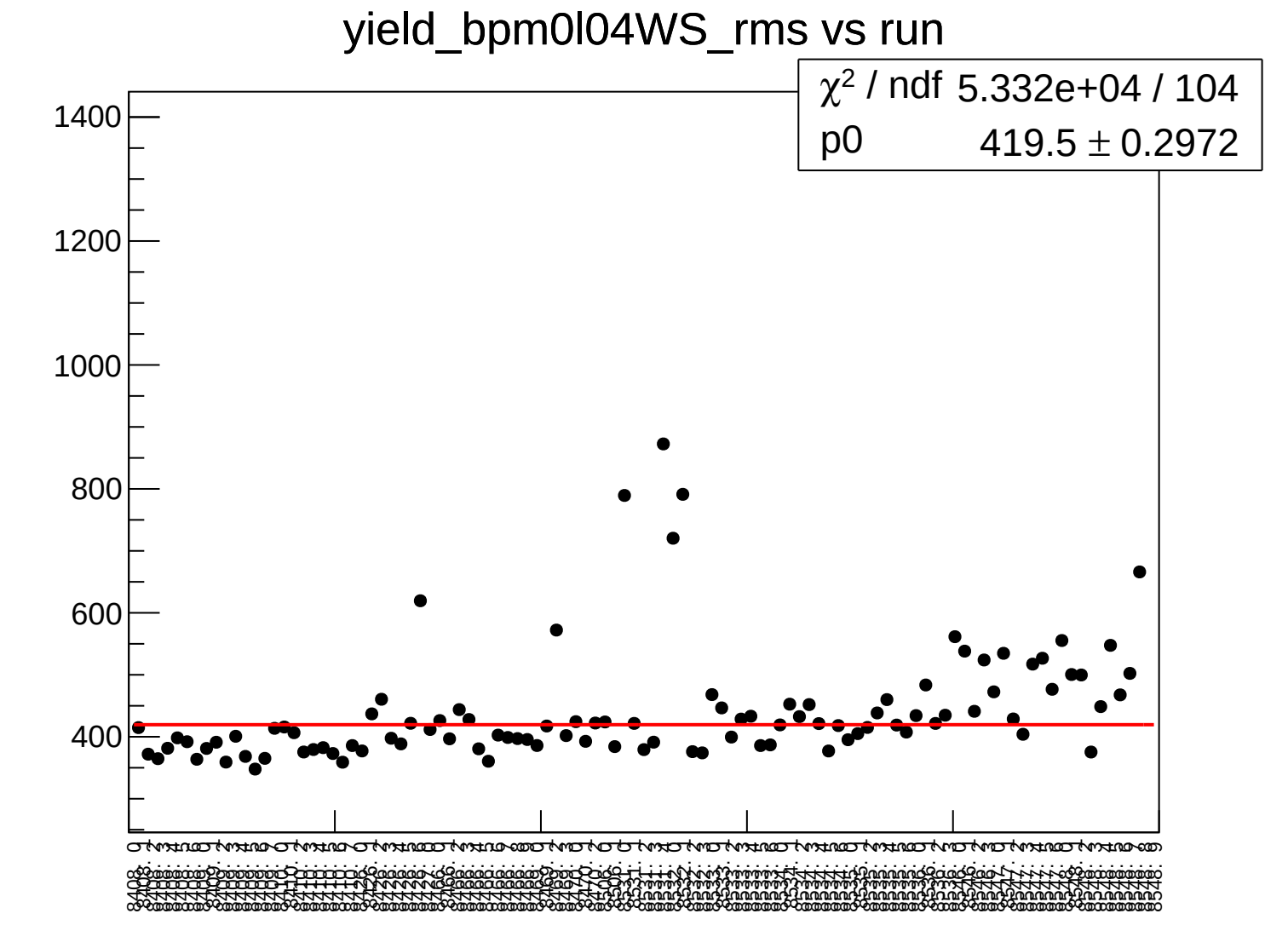

yield_bpm0l03WS_mean vs run
×10^3
χ^2 / ndf 6.084e+05 / 104
p0 1.288e+05 ± 0.4601
129
128
127
126
125
124
pull
Entries 105
Mean 297.7
Std Dev 0
250
200
150
100
50
0
−50
−100
−150
−200

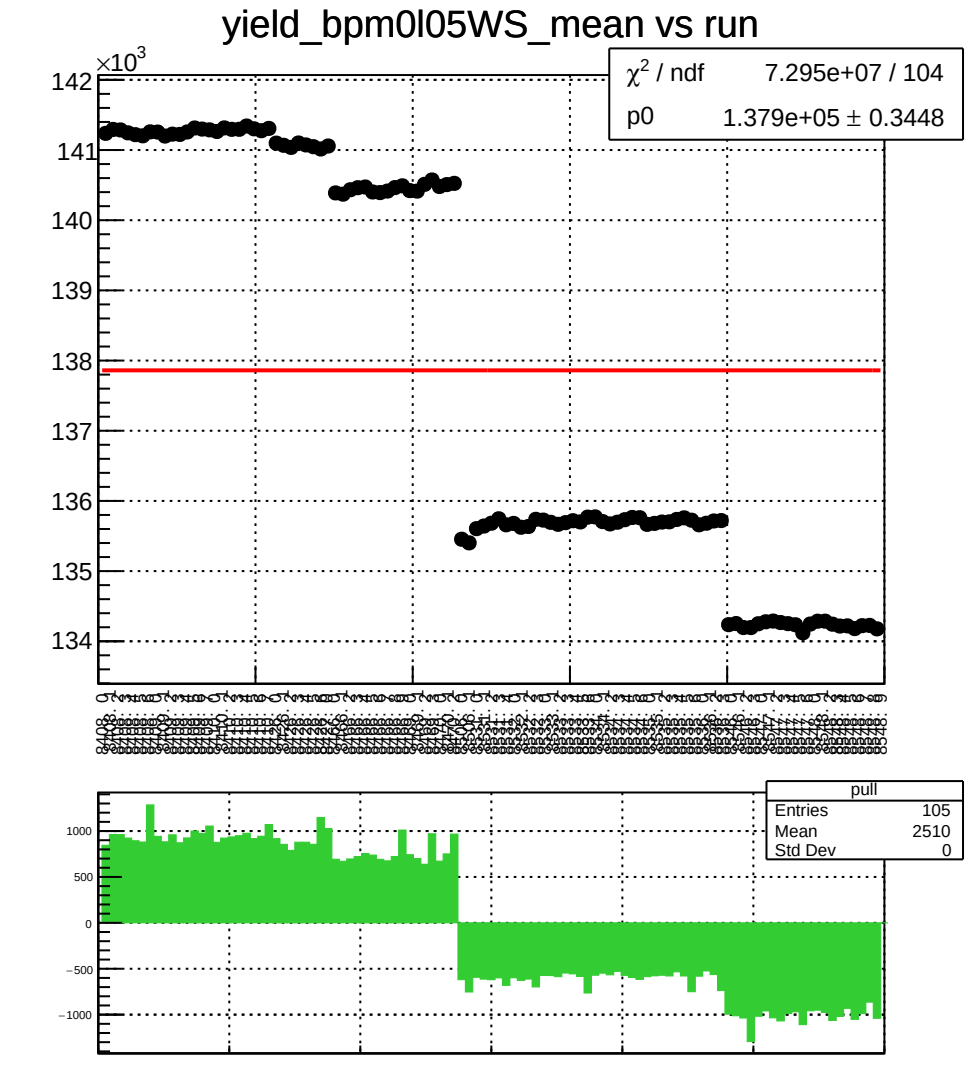

pull1D
Entries 105
Mean 3.843
Std Dev 2.078
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

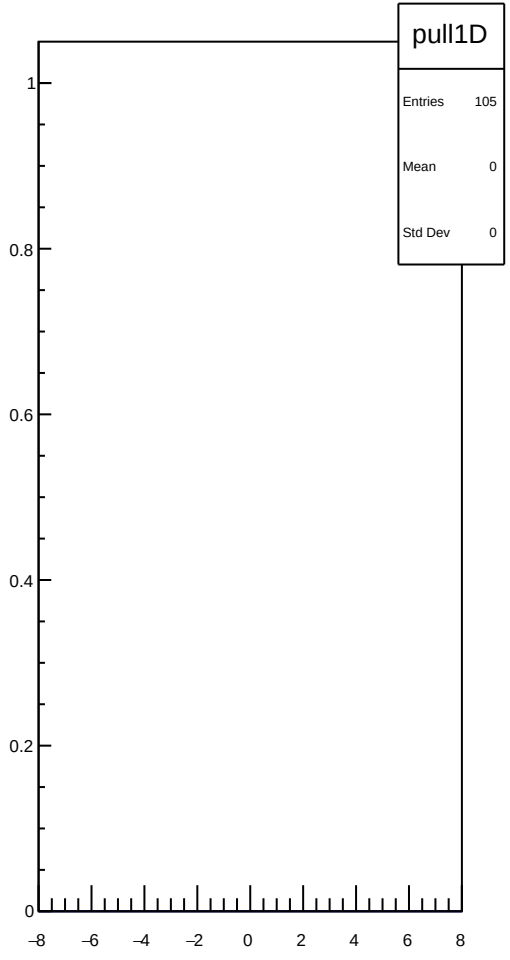

yield_bpm0l03WS_rms vs run
χ^2 / ndf 3.686e+05 / 104
p0 421.4 ± 0.3254
7000
6000
5000
4000
3000
2000
1000

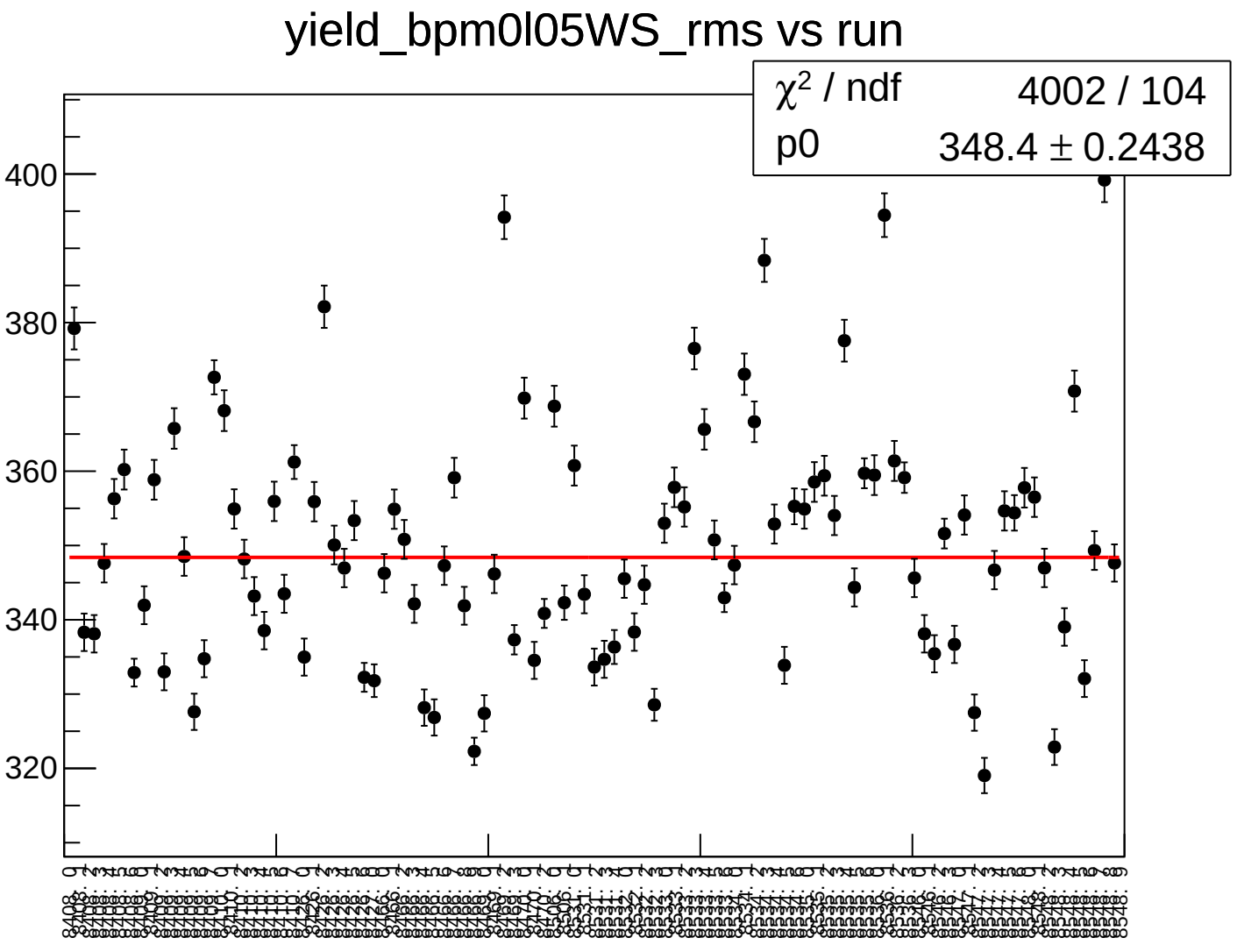

yield_bpm0l04WS_mean vs run
×10^3
χ^2 / ndf 6.378e+06 / 104
p0 1.335e+05 ± 0.4202
136.5
136
135.5
135
134.5
134
133.5
133
132.5
132
pull
Entries 105
Mean 310.9
Std Dev 0
600
400
200
0
−200
−400

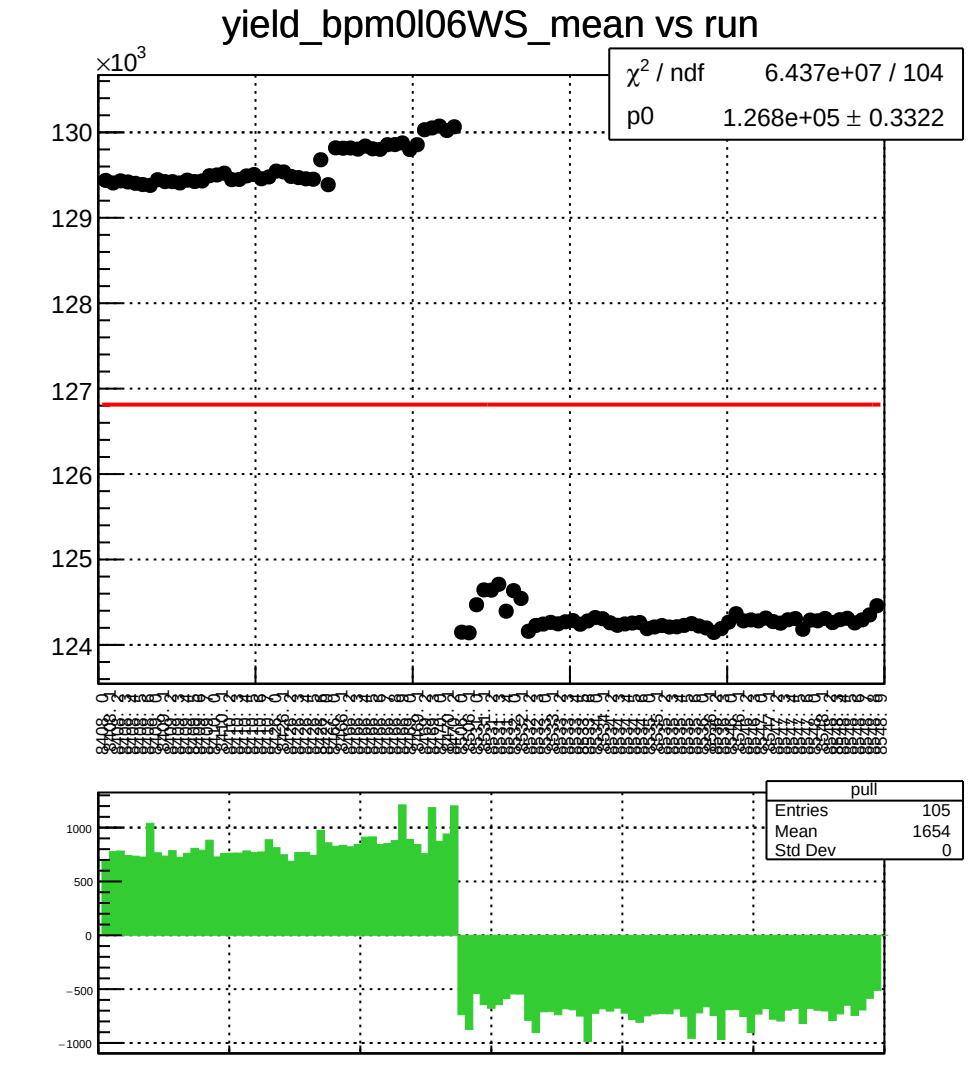

pull1D
Entries 105
Mean −2.892
Std Dev 3.725
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

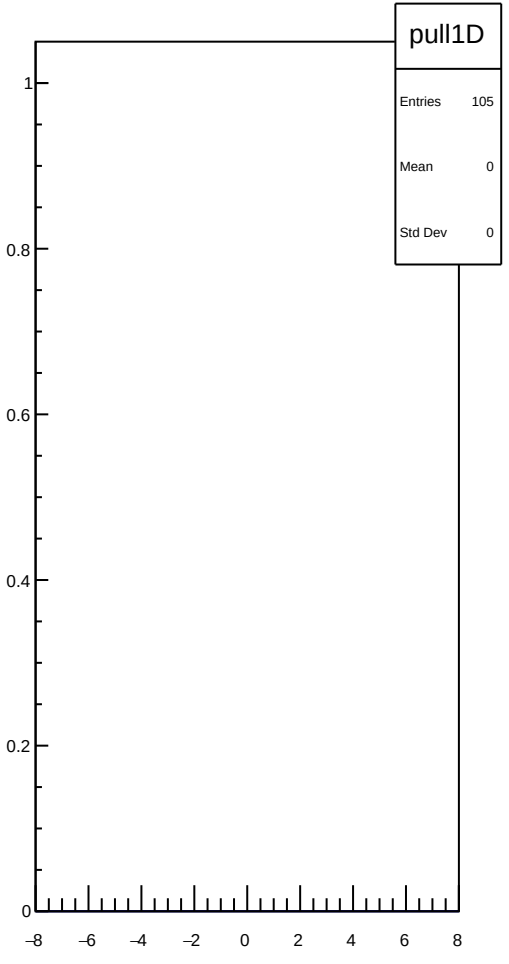

yield_bpm0l04WS_rms vs run
χ² / ndf 5.332e+04 / 104
p0 419.5 ± 0.2972
1400
1200
1000
800
600
400

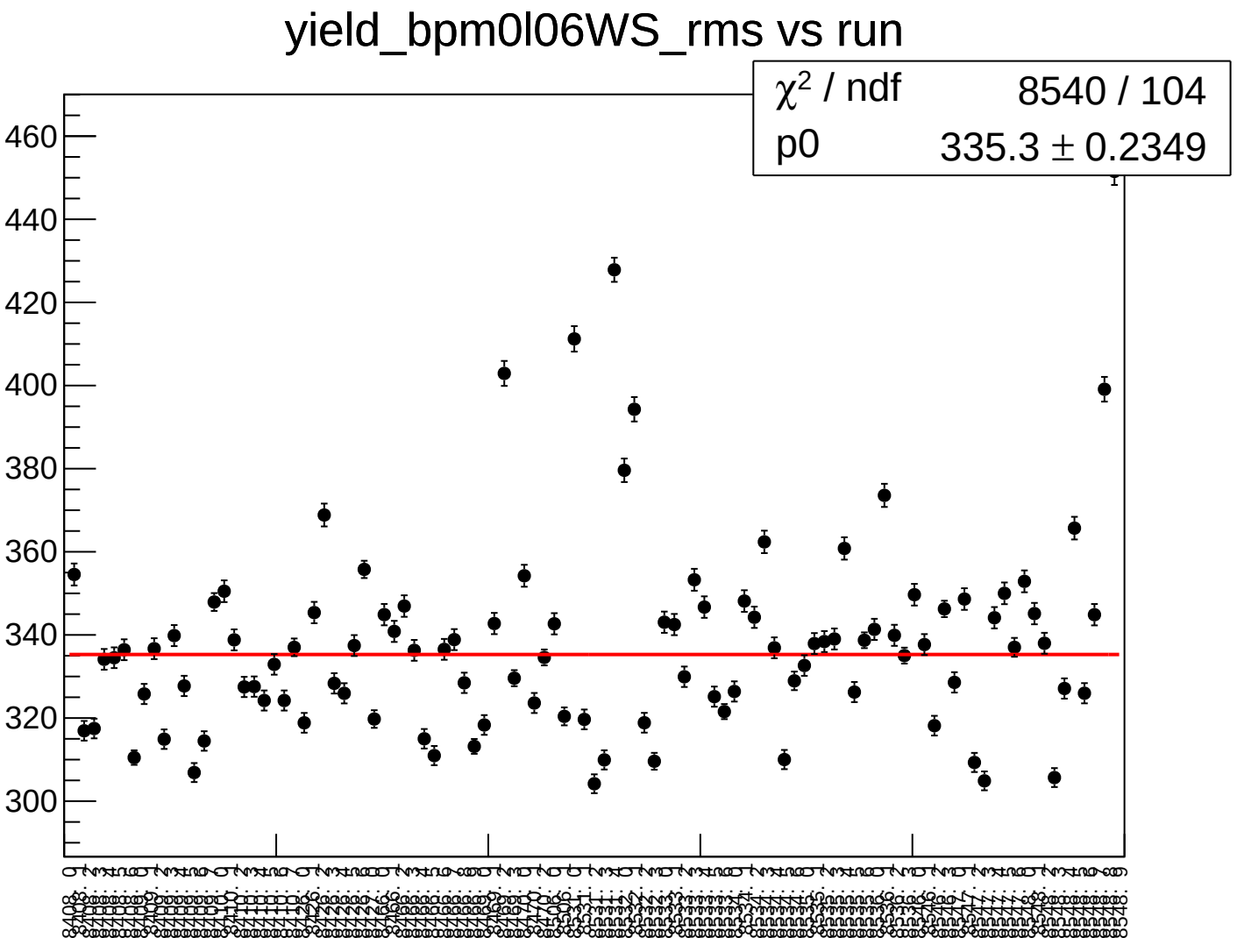

yield_bpm0l05WS_mean vs run
×10^3
142
141
140
139
138
137
136
135
134
χ² / ndf 7.295e+07 / 104
p0 1.379e+05 ± 0.3448
pull
Entries 105
Mean 2510
Std Dev 0
1000
500
0
−500
−1000

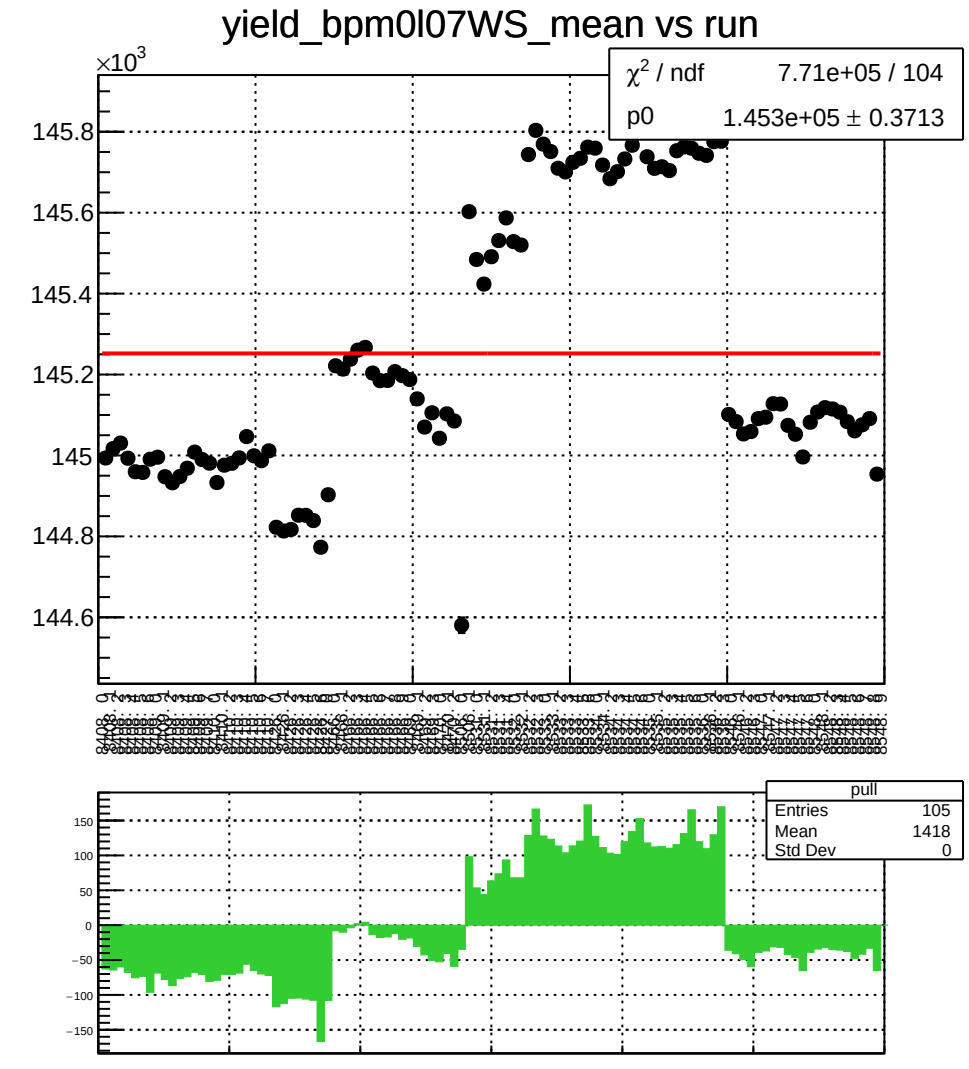

pull1D
Entries 105
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

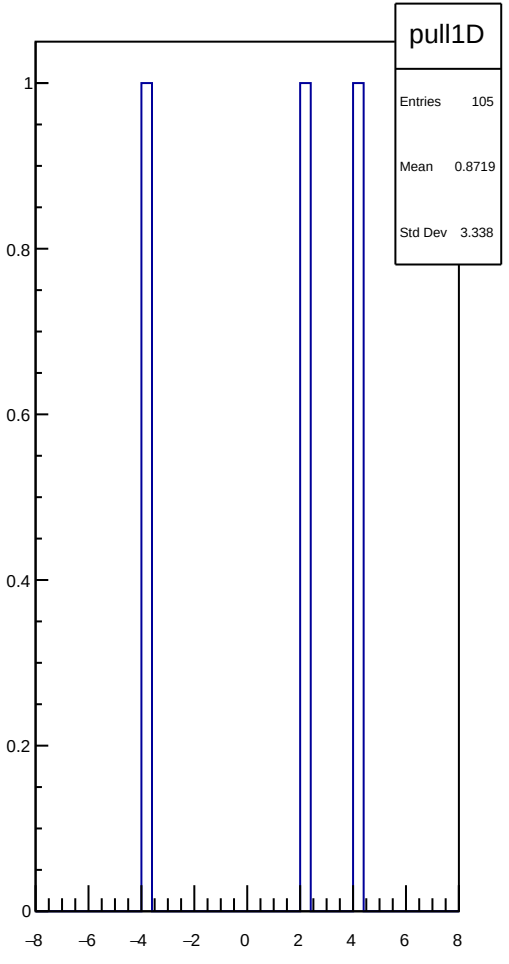

yield_bpm0l05WS_rms vs run
χ² / ndf 4002 / 104
p0 348.4 ± 0.2438
400
380
360
340
320

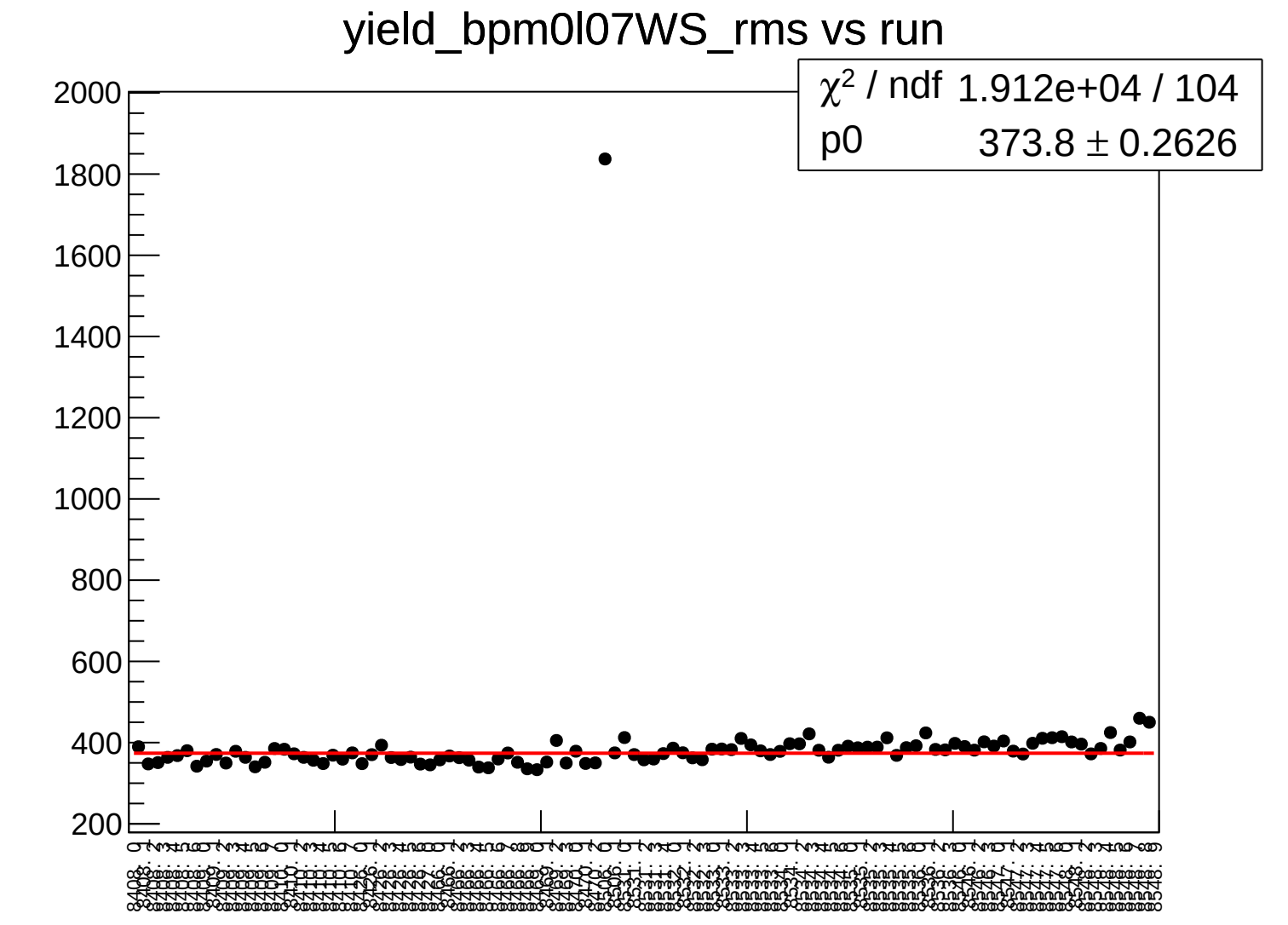

yield_bpm0l06WS_mean vs run
×10^3
χ² / ndf 6.437e+07 / 104
p0 1.268e+05 ± 0.3322
130
129
128
127
126
125
124
pull
Entries 105
Mean 1654
Std Dev 0
1000
500
0
−500
−1000

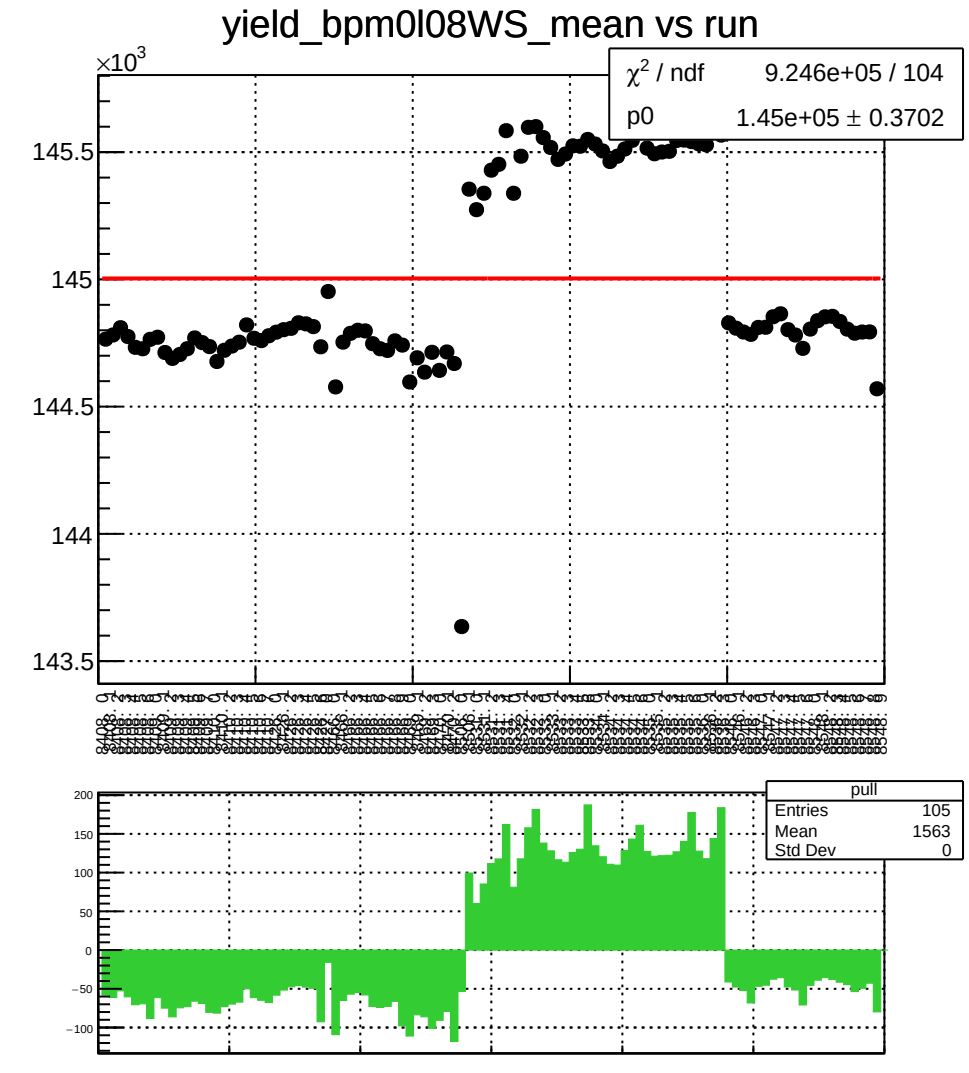

pull1D
Entries 105
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

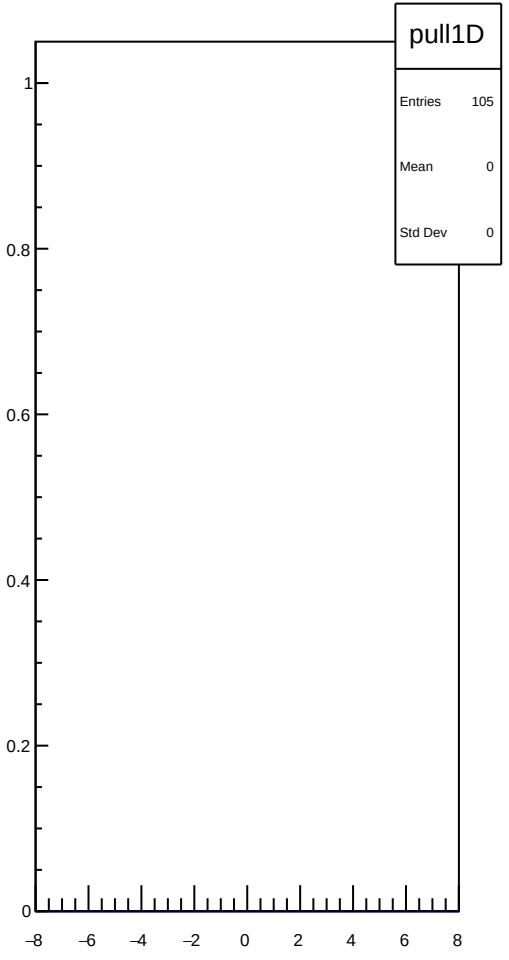

yield_bpm0l06WS_rms vs run
χ² / ndf 8540 / 104
p0 335.3 ± 0.2349
460
440
420
400
380
360
340
320
300

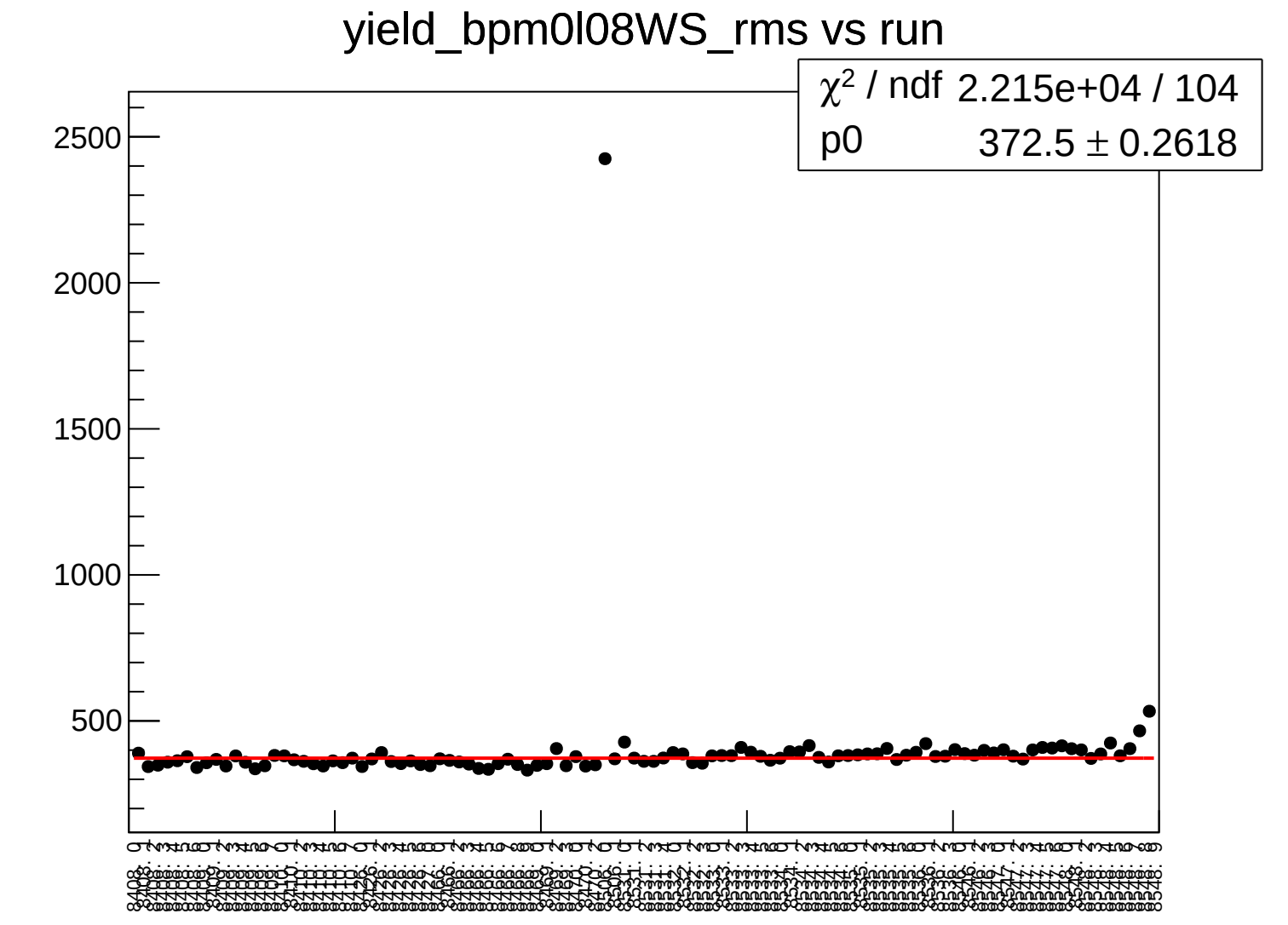

yield_bpm0l07WS_mean vs run
×10^3
χ² / ndf 7.71e+05 / 104
p0 1.453e+05 ± 0.3713
145.8
145.6
145.4
145.2
145
144.8
144.6
pull
Entries 105
Mean 1418
Std Dev 0
150
100
50
0
−50
−100
−150

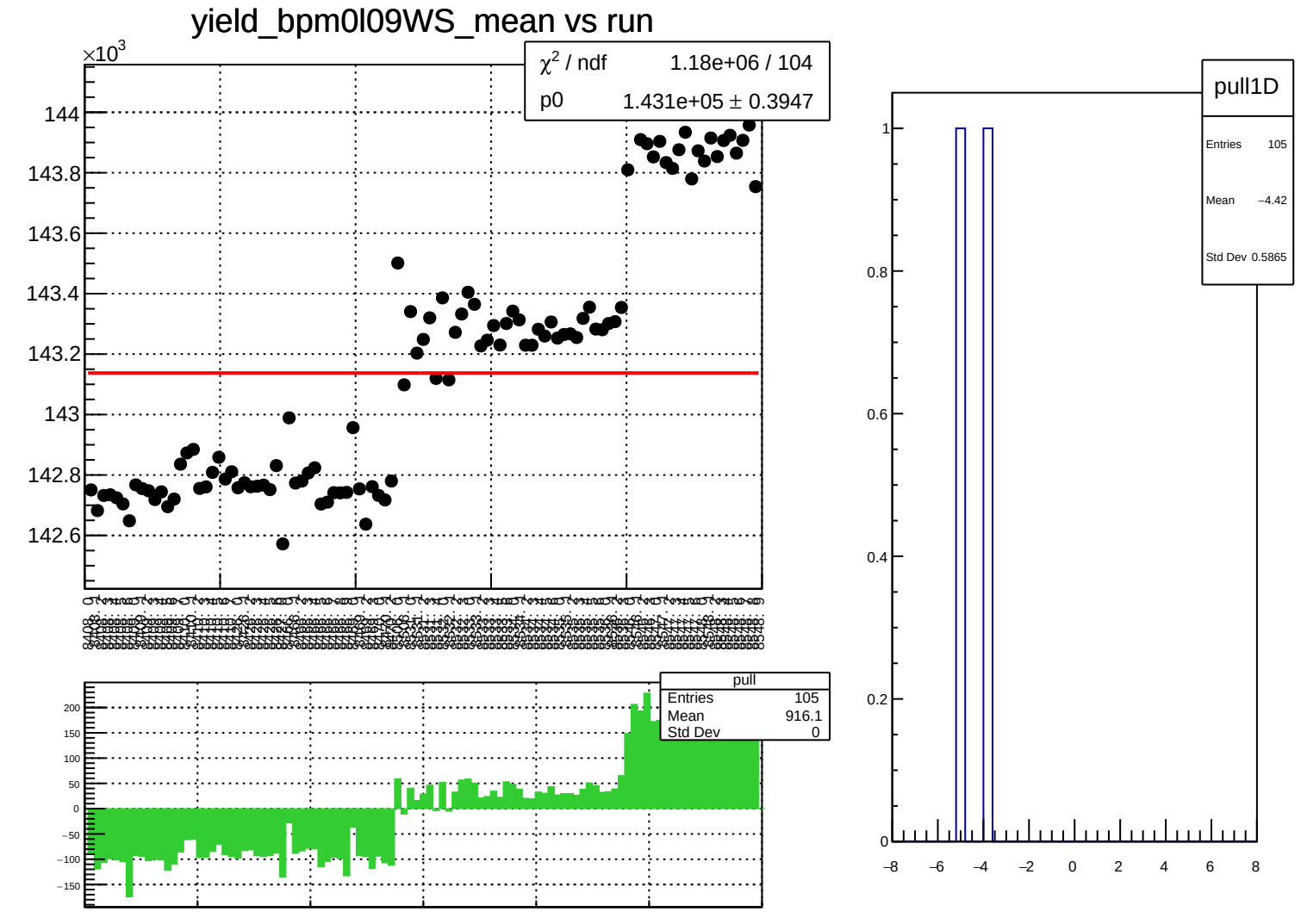

pull1D
Entries 105
Mean 0.8719
Std Dev 3.338
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

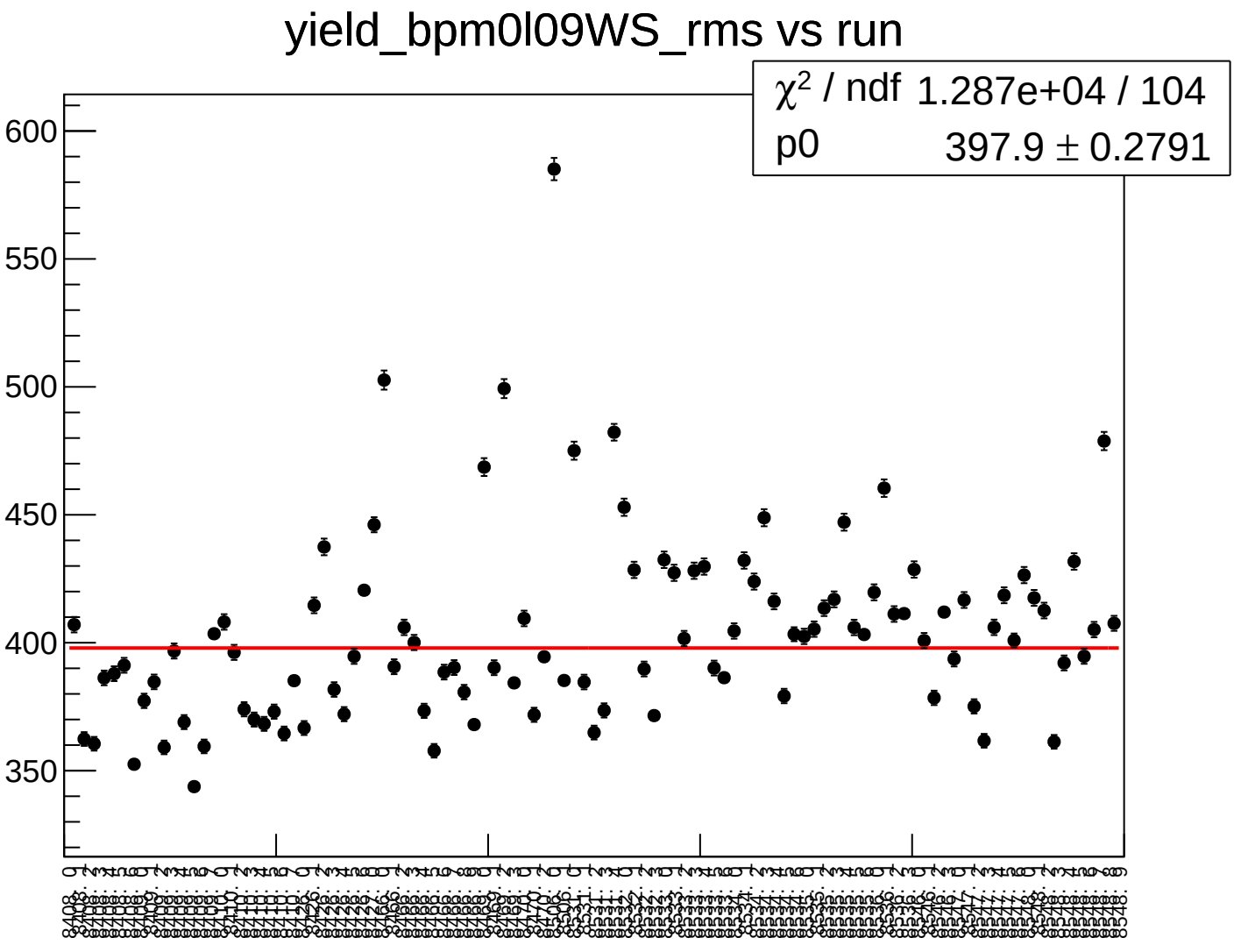

yield_bpm0l07WS_rms vs run
χ² / ndf 1.912e+04 / 104
p0 373.8 ± 0.2626
2000
1800
1600
1400
1200
1000
800
600
400
200

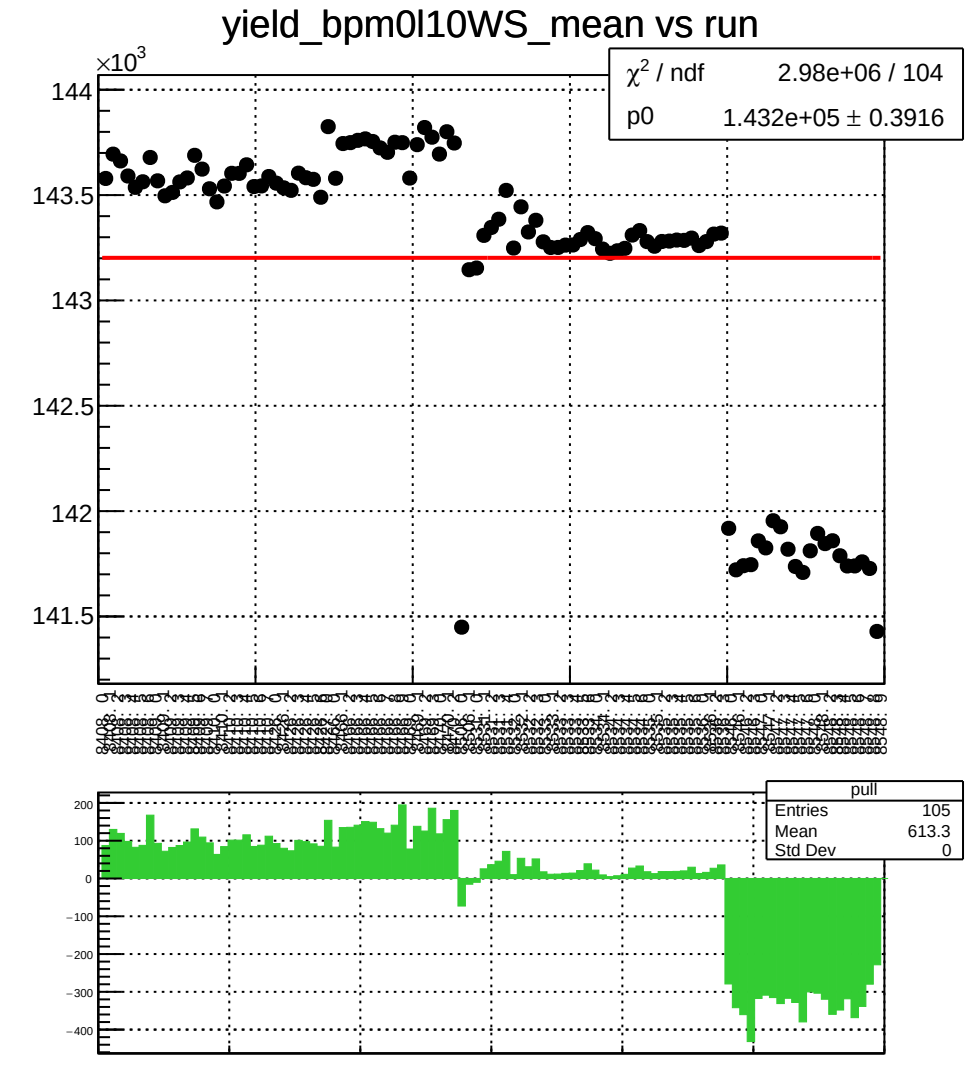

yield_bpm0l08WS_mean vs run
×10^3
χ² / ndf 9.246e+05 / 104
p0 1.45e+05 ± 0.3702
145.5
145
144.5
144
143.5
pull
Entries 105
Mean 1563
Std Dev 0
200
150
100
50
0
−50
−100

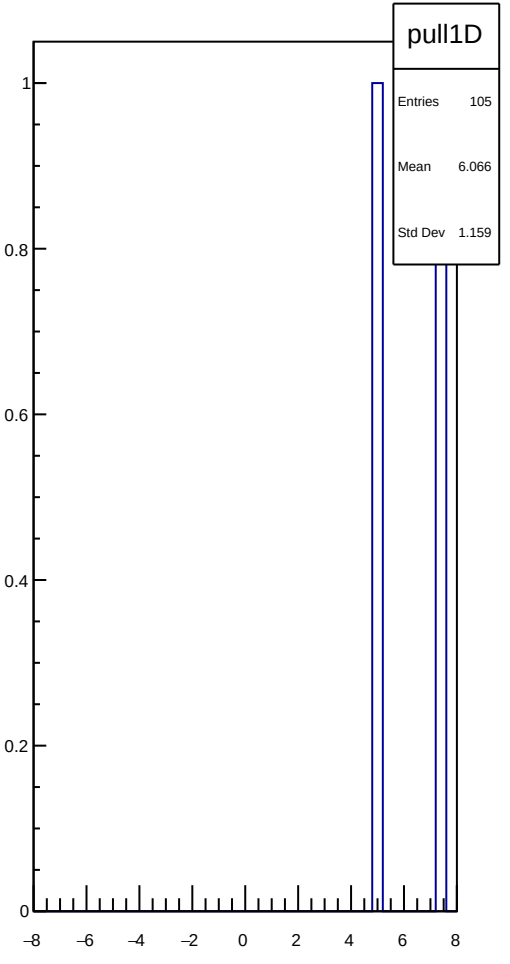

pull1D
Entries 105
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

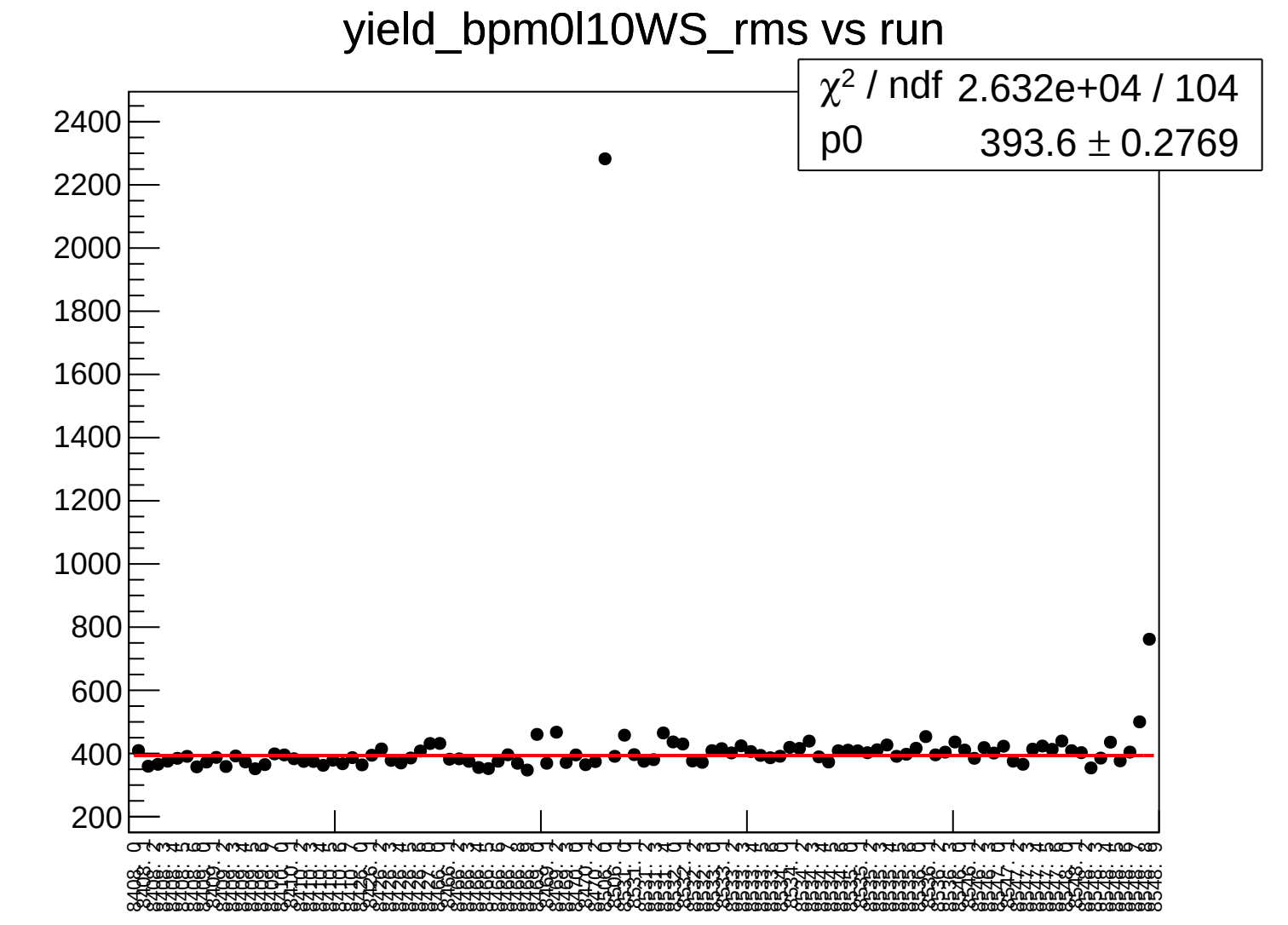

yield_bpm0l08WS_rms vs run
χ² / ndf 2.215e+04 / 104
p0 372.5 ± 0.2618
2500
2000
1500
1000
500

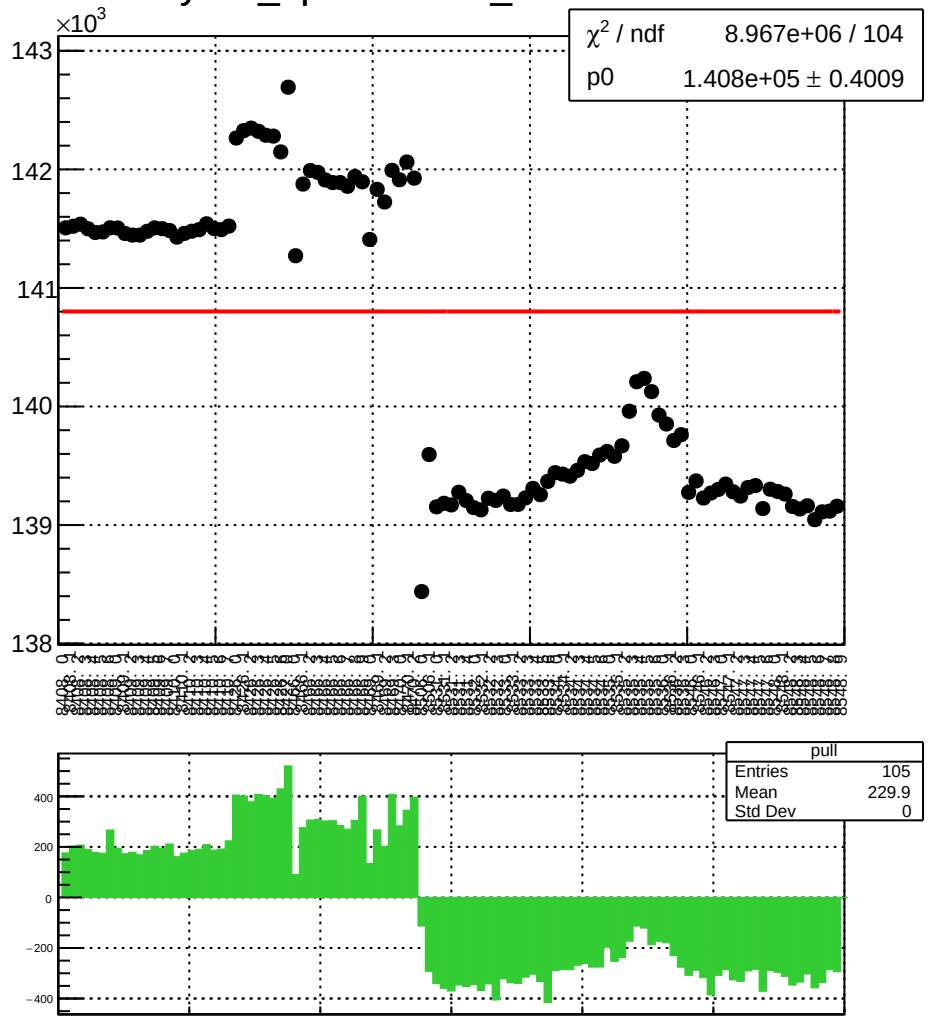

yield_bpm0l09WS_mean vs run
×10^3
χ^2 / ndf 1.18e+06 / 104
p0 1.431e+05 ± 0.3947
144
143.8
143.6
143.4
143.2
143
142.8
142.6
pull
Entries 105
Mean 916.1
Std Dev 0
200
150
100
50
0
−50
−100
−150
pull1D
Entries 105
Mean −4.42
Std Dev 0.5865
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

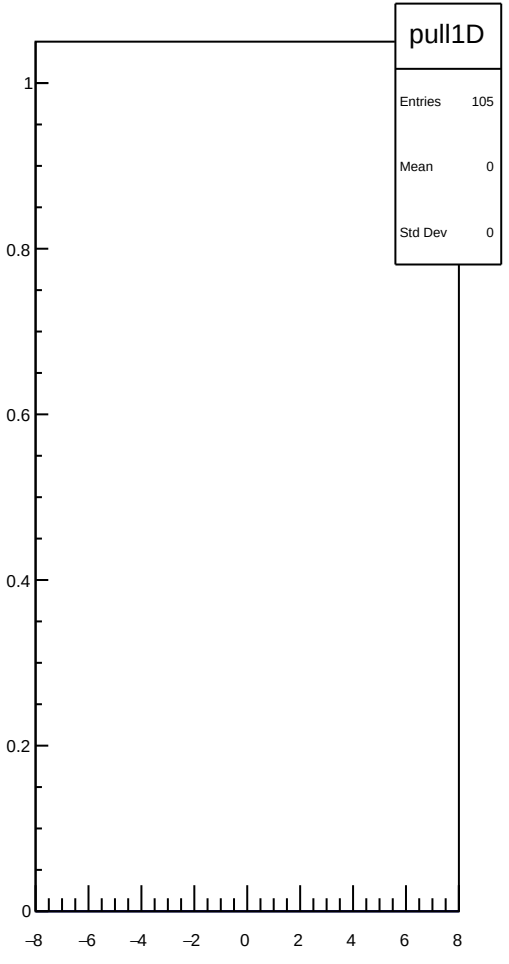

yield_bpm0l09WS_rms vs run
χ^2 / ndf 1.287e+04 / 104
p0 397.9 ± 0.2791
600
550
500
450
400
350

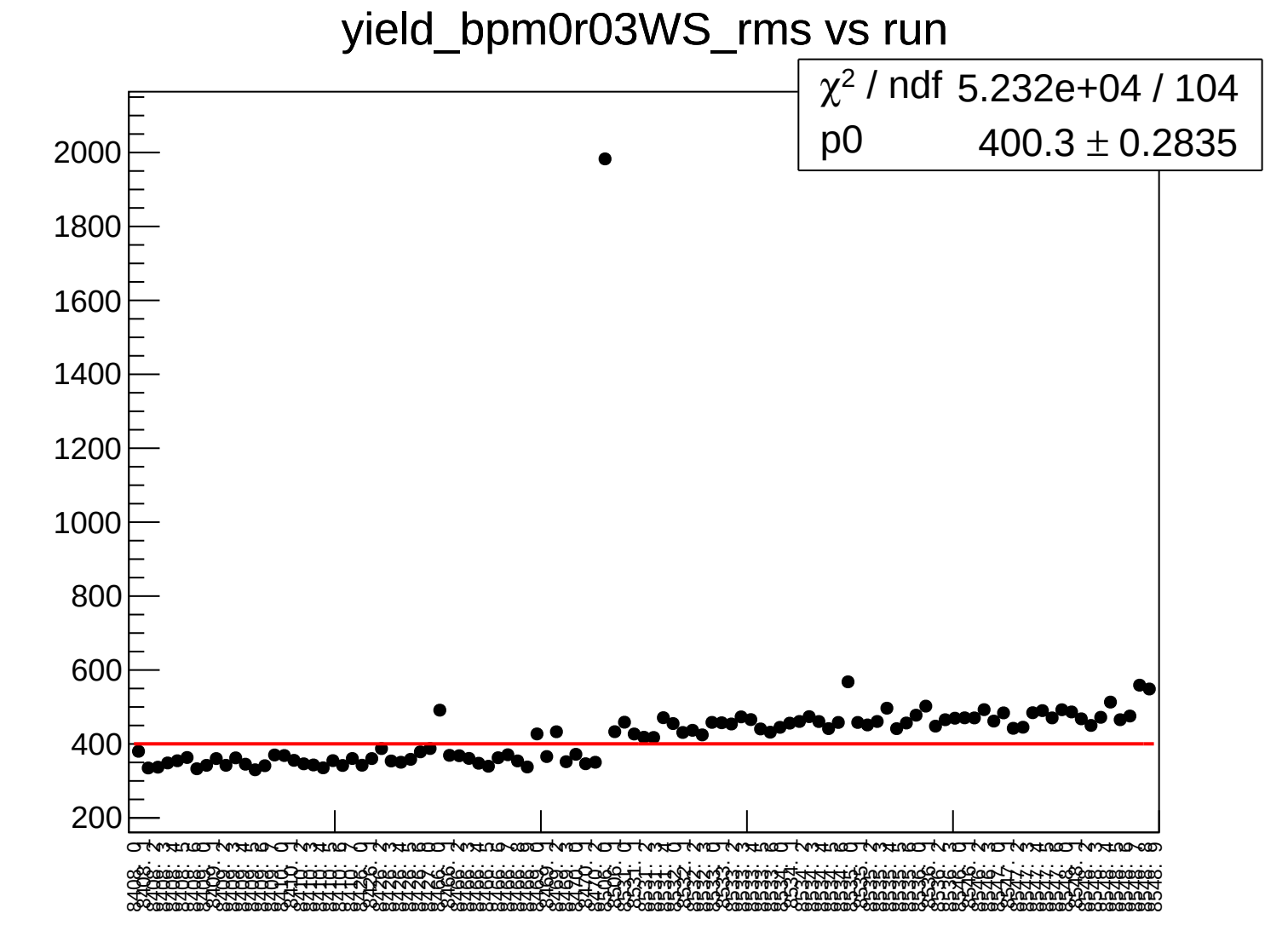

yield_bpm0l10WS_mean vs run
×10^3
144
143.5
143
142.5
142
141.5
χ² / ndf 2.98e+06 / 104
p0 1.432e+05 ± 0.3916
pull
Entries 105
Mean 613.3
Std Dev 0
200
100
0
−100
−200
−300
−400

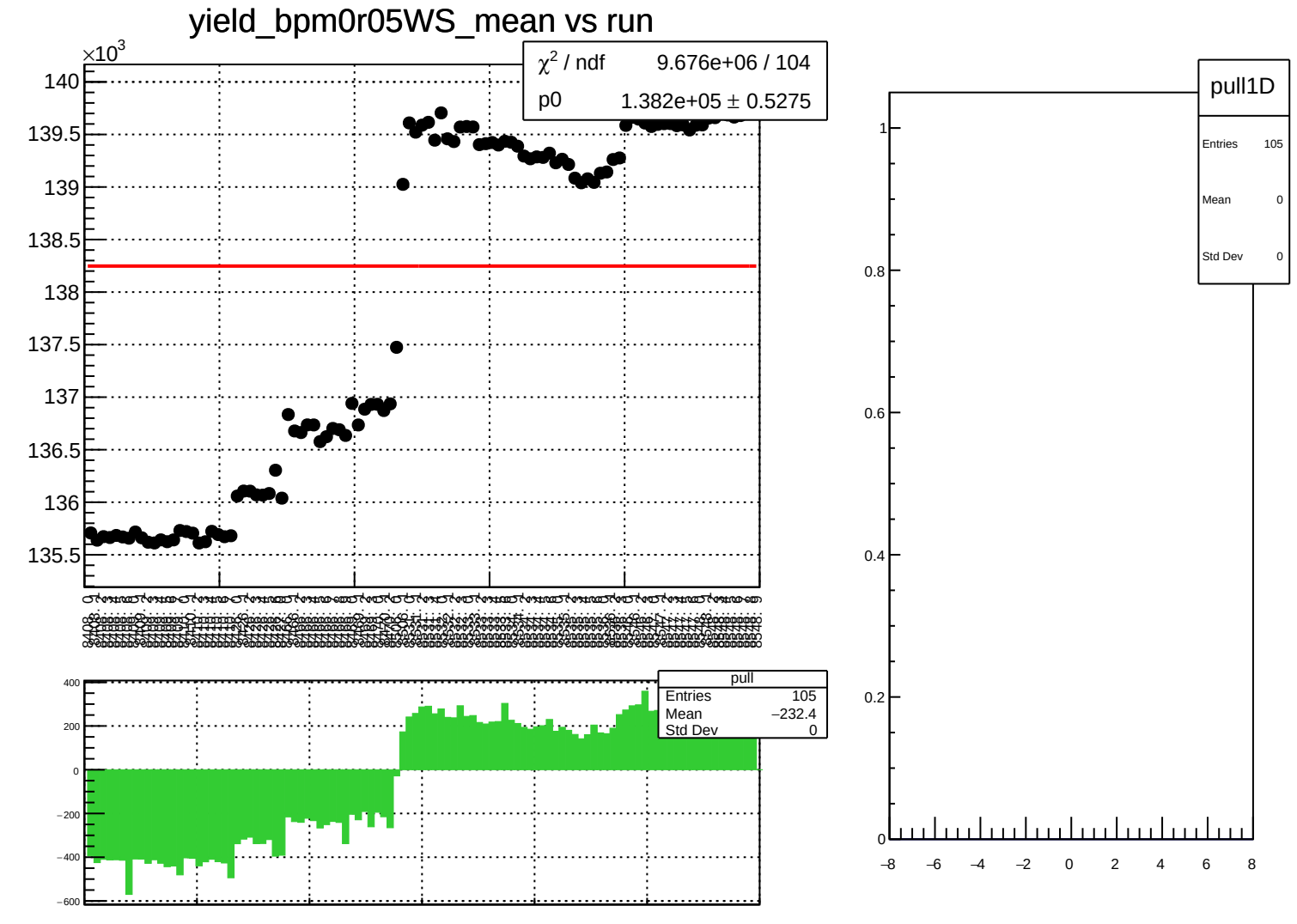

pull1D
Entries 105
Mean 6.066
Std Dev 1.159
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

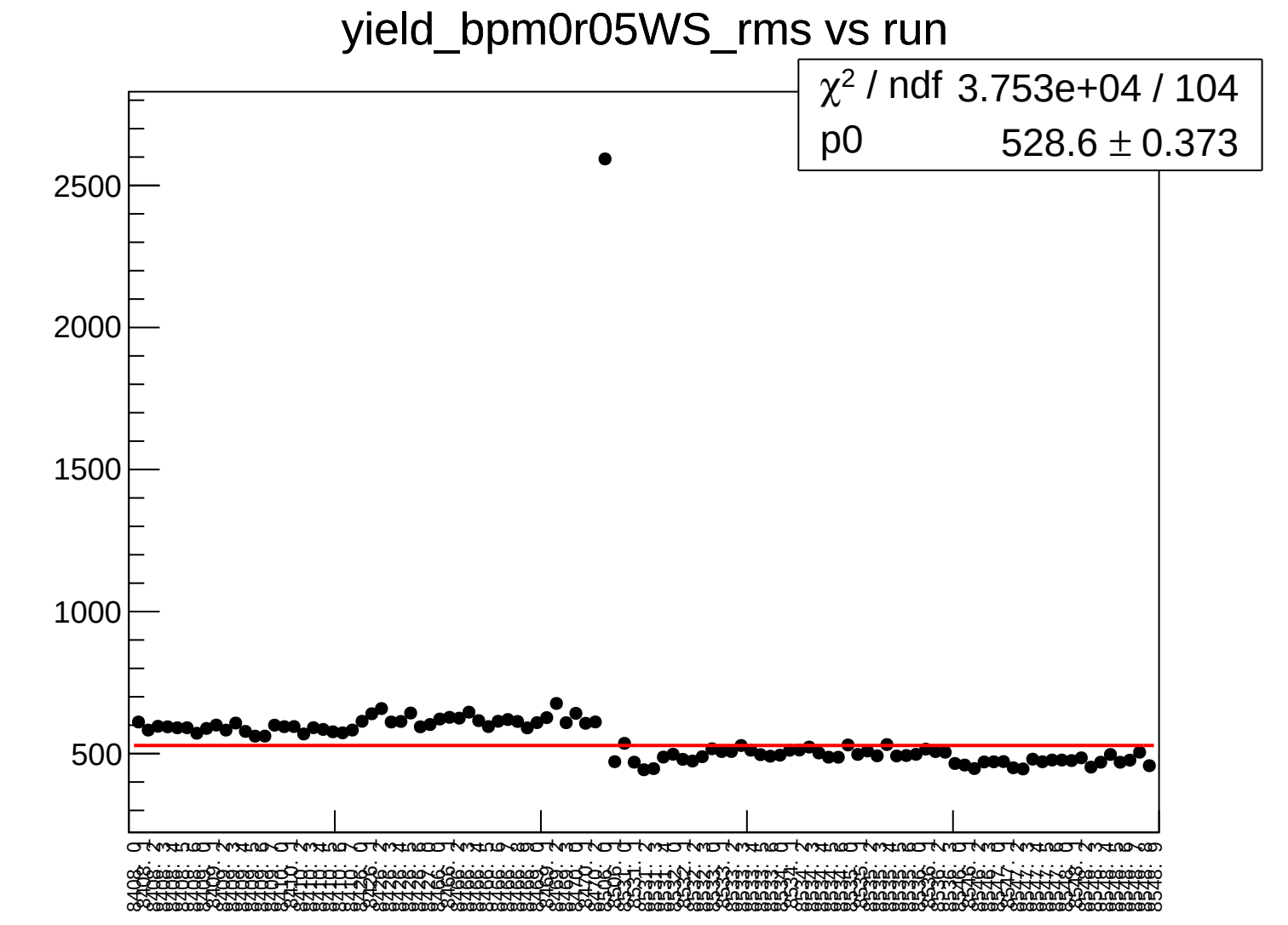

yield_bpm0l10WS_rms vs run
χ² / ndf 2.632e+04 / 104
p0 393.6 ± 0.2769
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

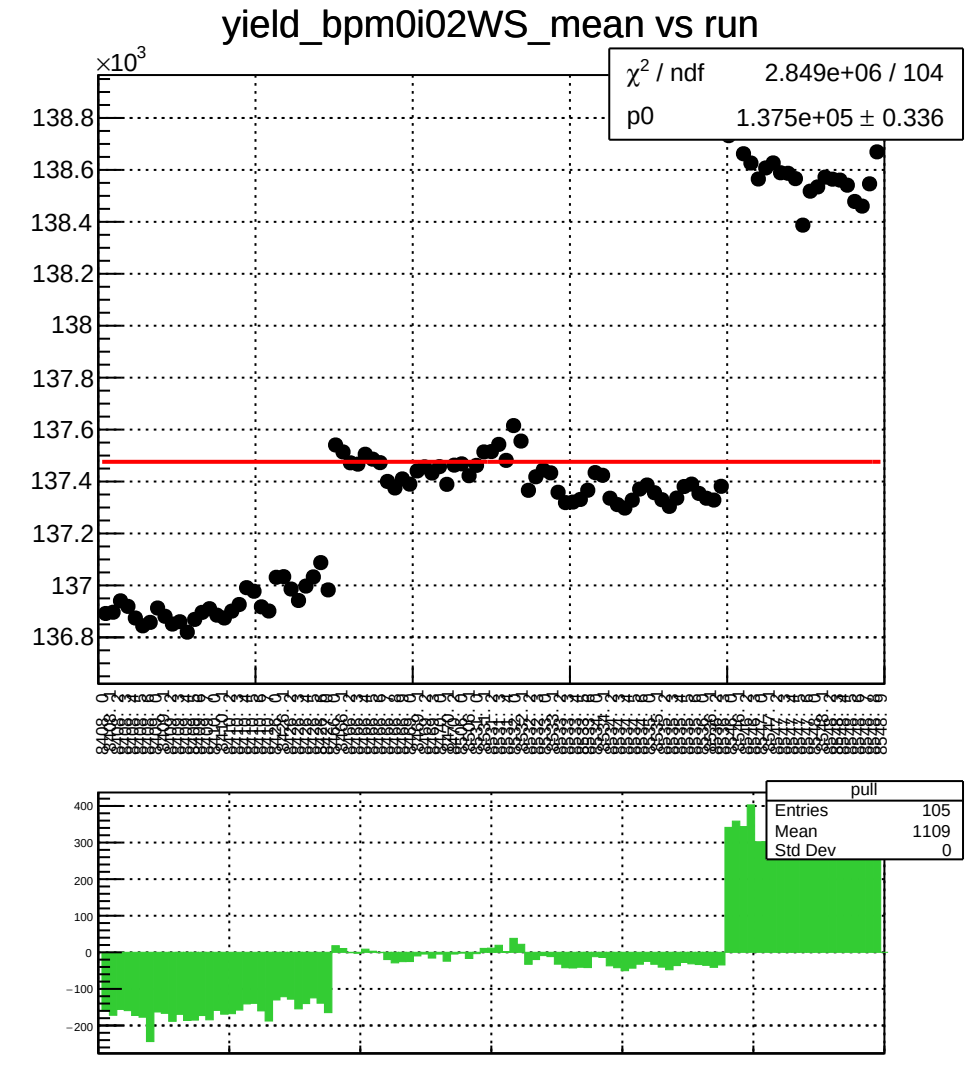

yield_bpm0r03WS_mean vs run
×10^3
χ² / ndf 8.967e+06 / 104
p0 1.408e+05 ± 0.4009
143
142
141
140
139
138
pull
Entries 105
Mean 229.9
Std Dev 0
400
200
0
−200
−400

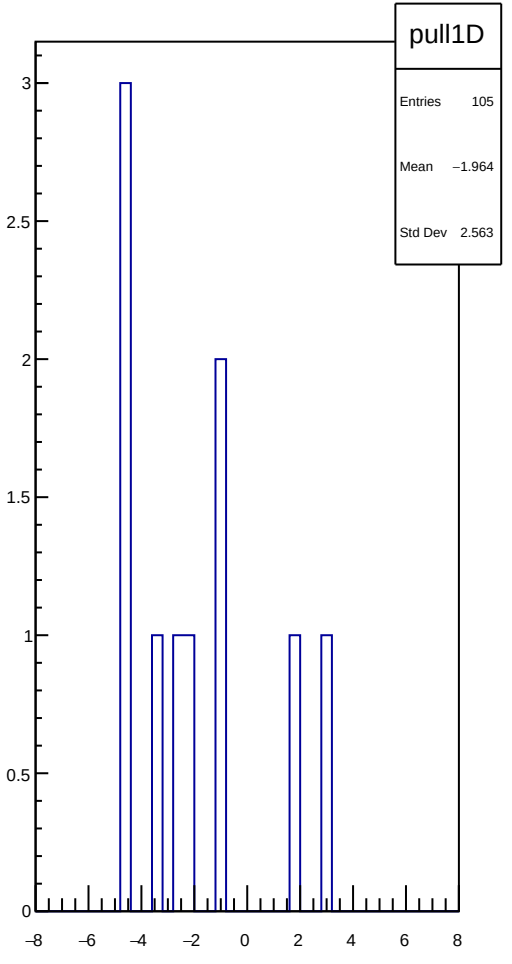

pull1D
Entries 105
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

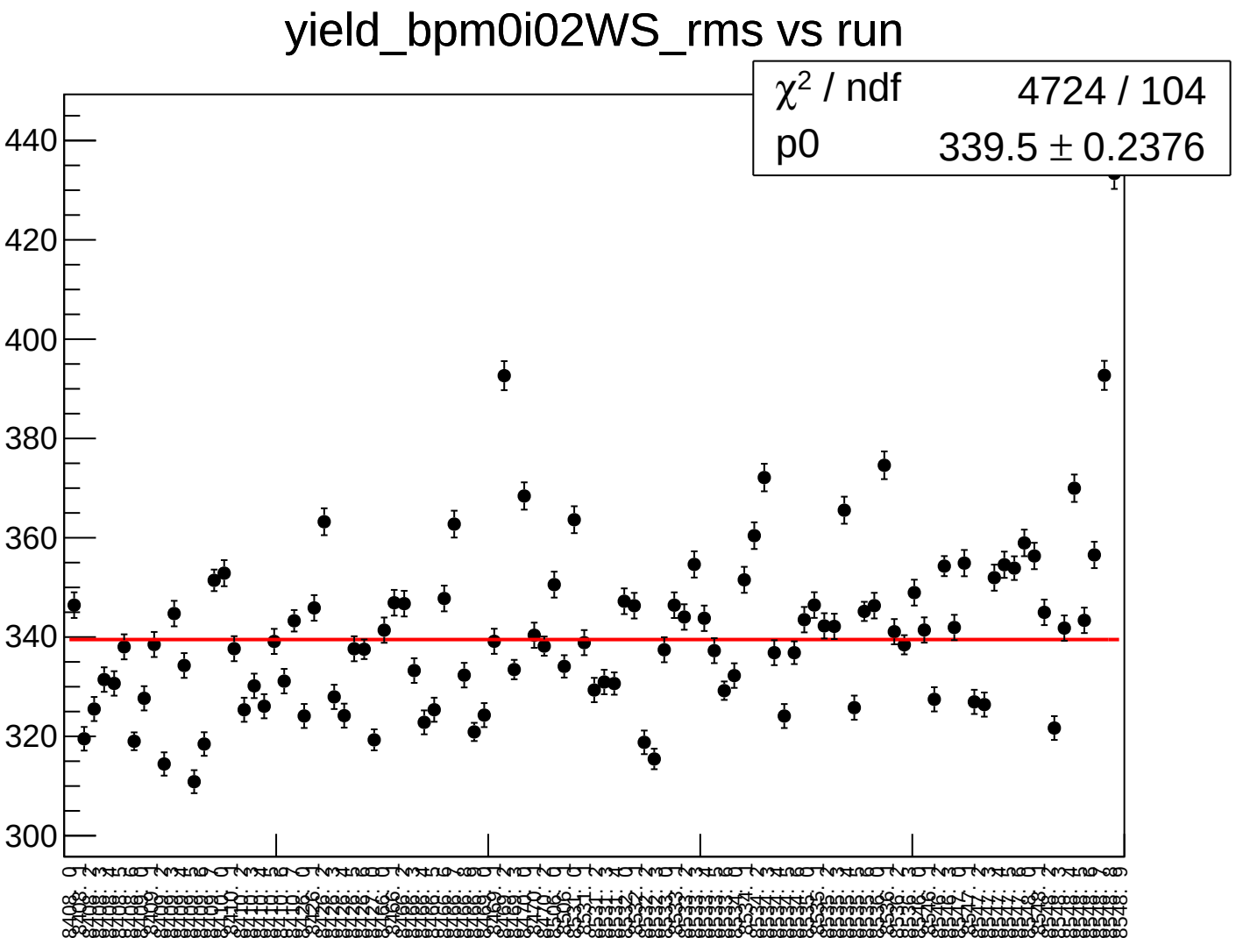

yield_bpm0r03WS_rms vs run
χ² / ndf 5.232e+04 / 104
p0 400.3 ± 0.2835
2000
1800
1600
1400
1200
1000
800
600
400
200

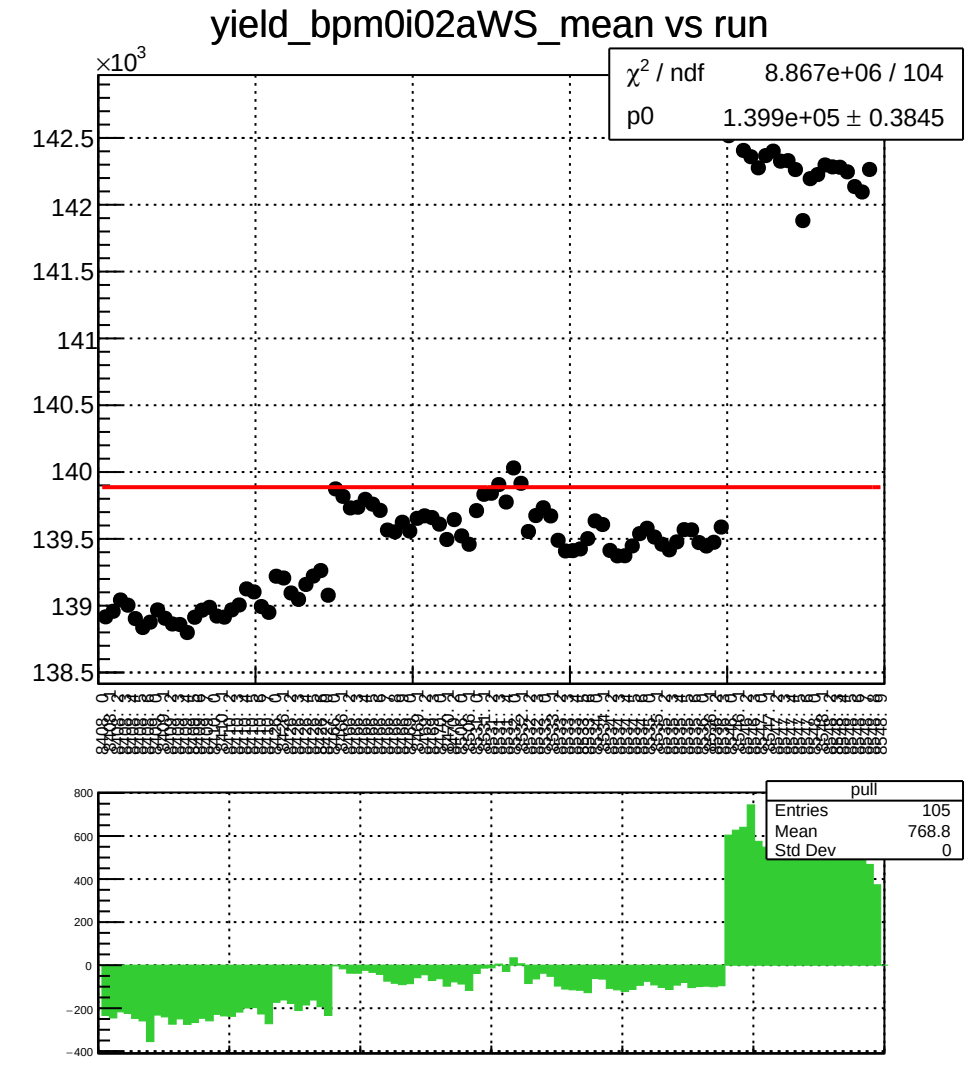

yield_bpm0r05WS_mean vs run
×10^3
χ^2 / ndf 9.676e+06 / 104
p0 1.382e+05 ± 0.5275
140
139.5
139
138.5
138
137.5
137
136.5
136
135.5
pull
Entries 105
Mean −232.4
Std Dev 0
400
200
0
−200
−400
−600
pull1D
Entries 105
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

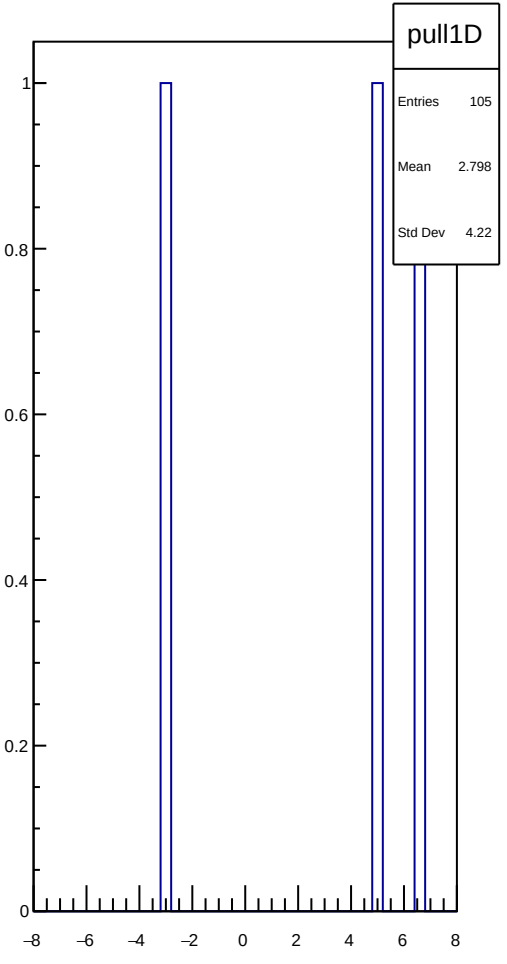

yield_bpm0r05WS_rms vs run
χ² / ndf 3.753e+04 / 104
p0 528.6 ± 0.373
2500
2000
1500
1000
500

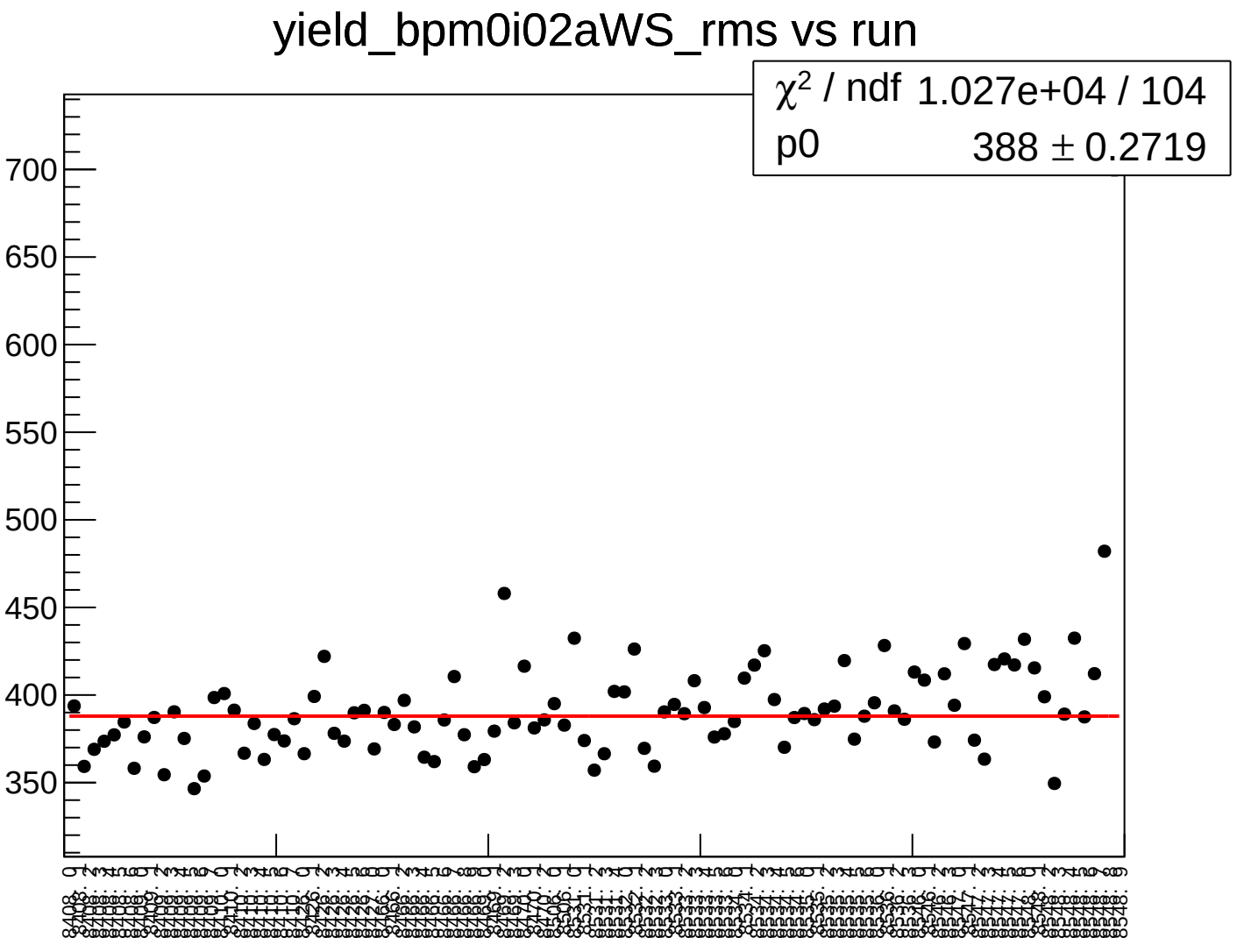

yield_bpm0i02WS_mean vs run
×10^3
χ² / ndf 2.849e+06 / 104
p0 1.375e+05 ± 0.336
138.8
138.6
138.4
138.2
138
137.8
137.6
137.4
137.2
137
136.8
pull
Entries 105
Mean 1109
Std Dev 0
400
300
200
100
0
−100
−200

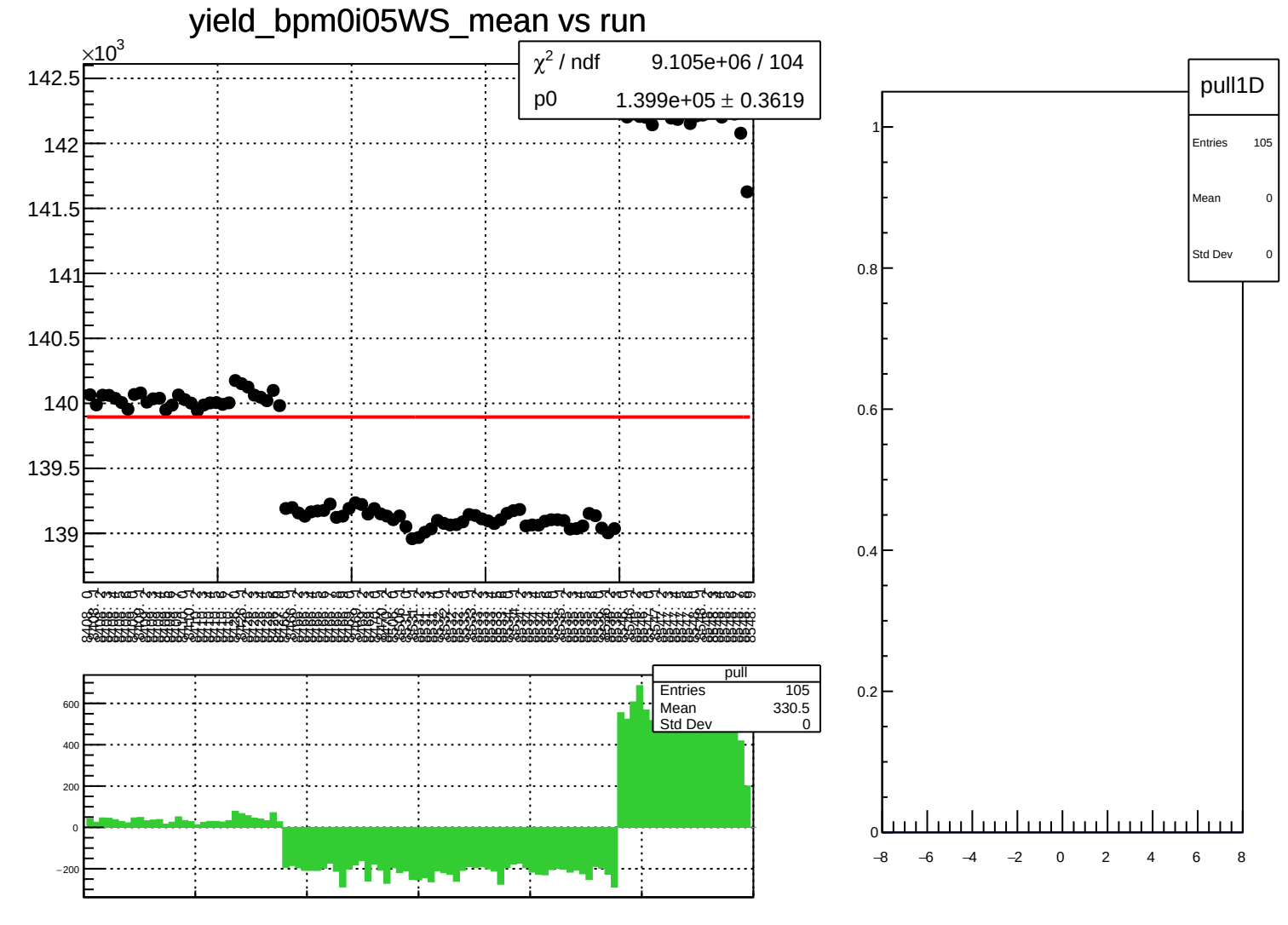

pull1D
Entries 105
Mean −1.964
Std Dev 2.563
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

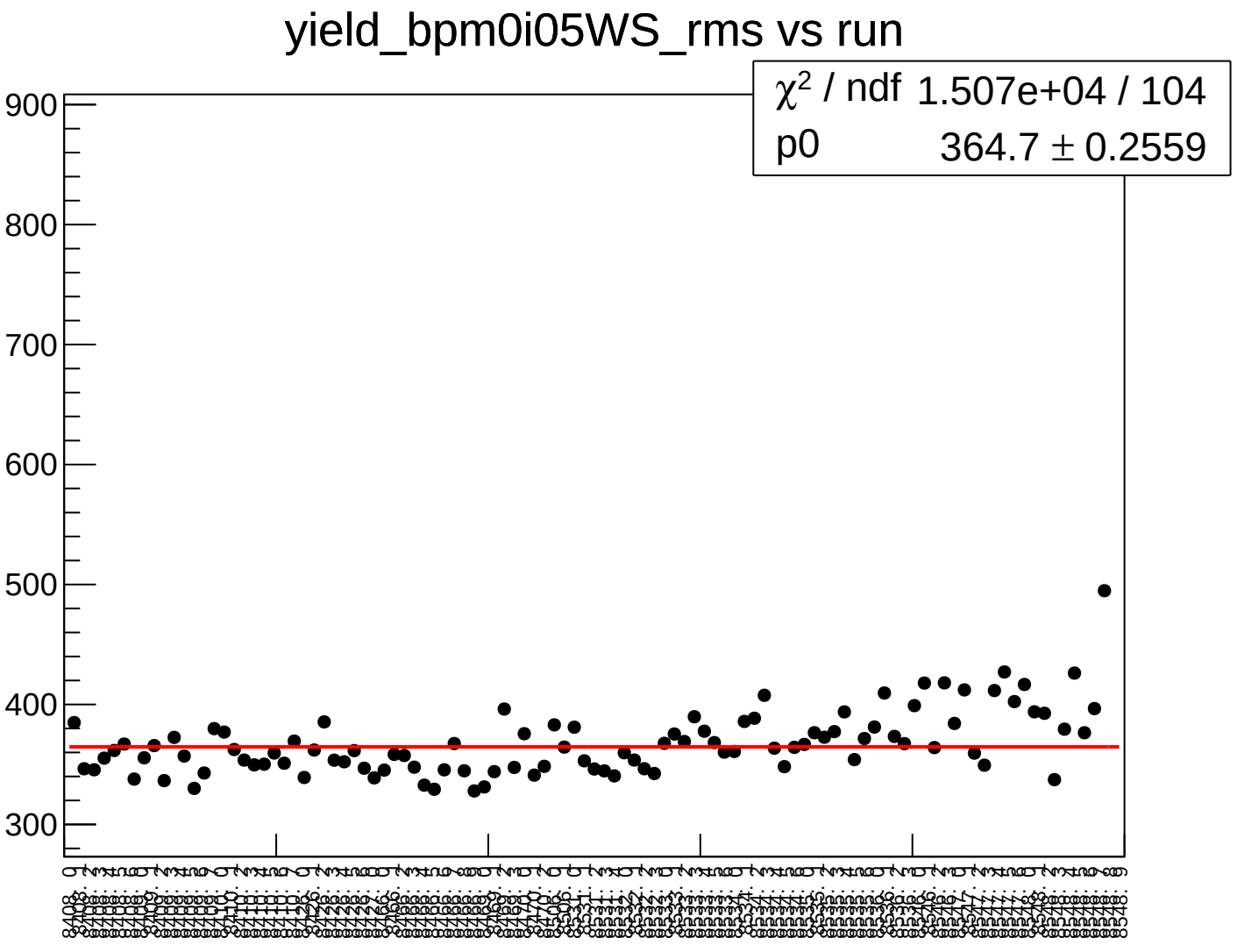

yield_bpm0i02WS_rms vs run
χ² / ndf 4724 / 104
p0 339.5 ± 0.2376
440
420
400
380
360
340
320
300

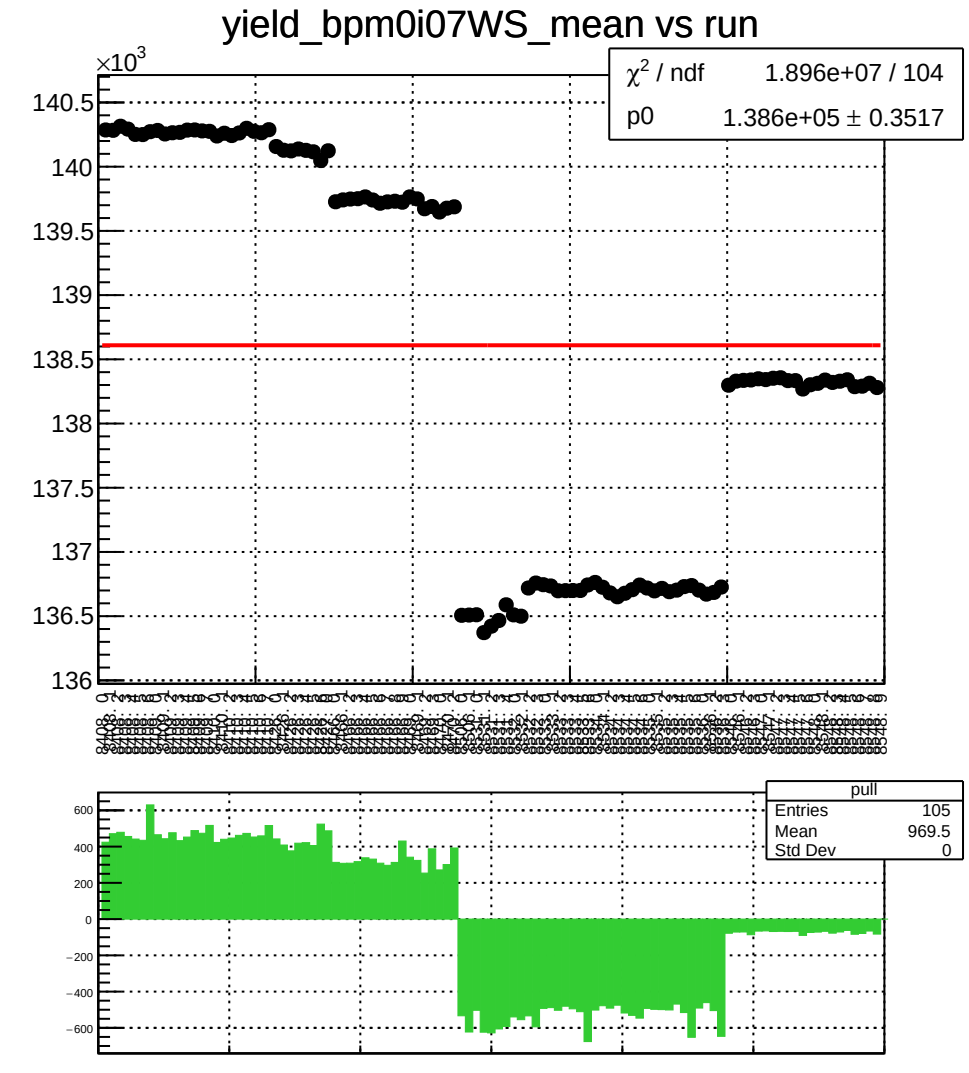

yield_bpm0i02aWS_mean vs run
×10^3
χ² / ndf 8.867e+06 / 104
p0 1.399e+05 ± 0.3845
142.5
142
141.5
141
140.5
140
139.5
139
138.5
pull
Entries 105
Mean 768.8
Std Dev 0
800
600
400
200
0
−200
−400

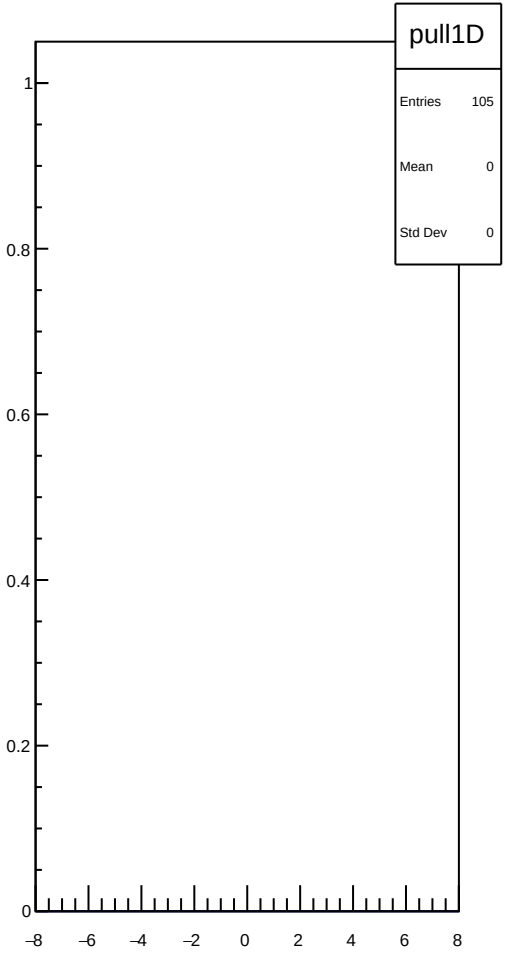

pull1D
Entries 105
Mean 2.798
Std Dev 4.22
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

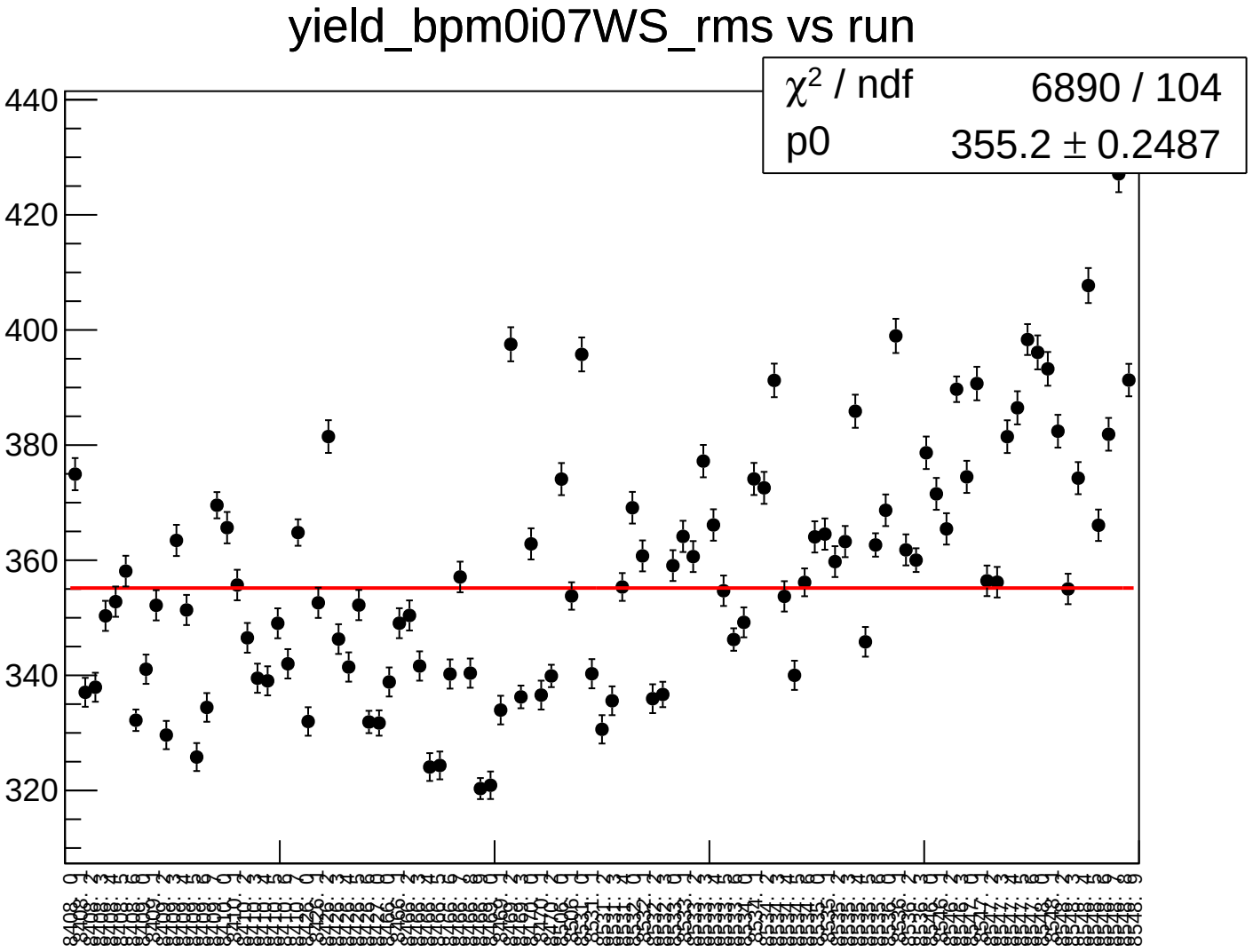

yield_bpm0i02aWS_rms vs run
χ² / ndf 1.027e+04 / 104
p0 388 ± 0.2719
700
650
600
550
500
450
400
350

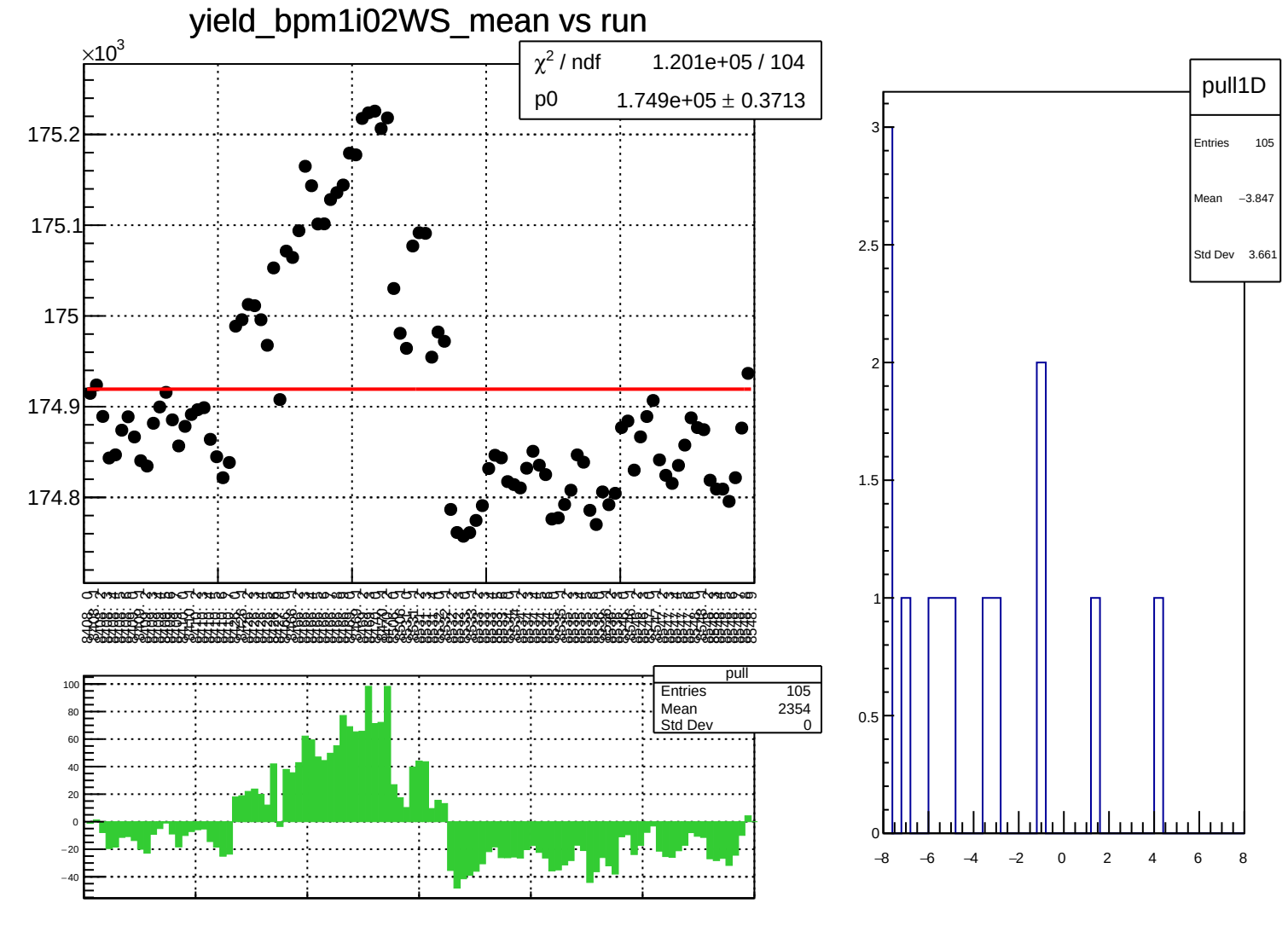

yield_bpm0i05WS_mean vs run
×10^3
χ^2 / ndf 9.105e+06 / 104
p0 1.399e+05 ± 0.3619
142.5
142
141.5
141
140.5
140
139.5
139
pull
Entries 105
Mean 330.5
Std Dev 0
600
400
200
0
−200
pull1D
Entries 105
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

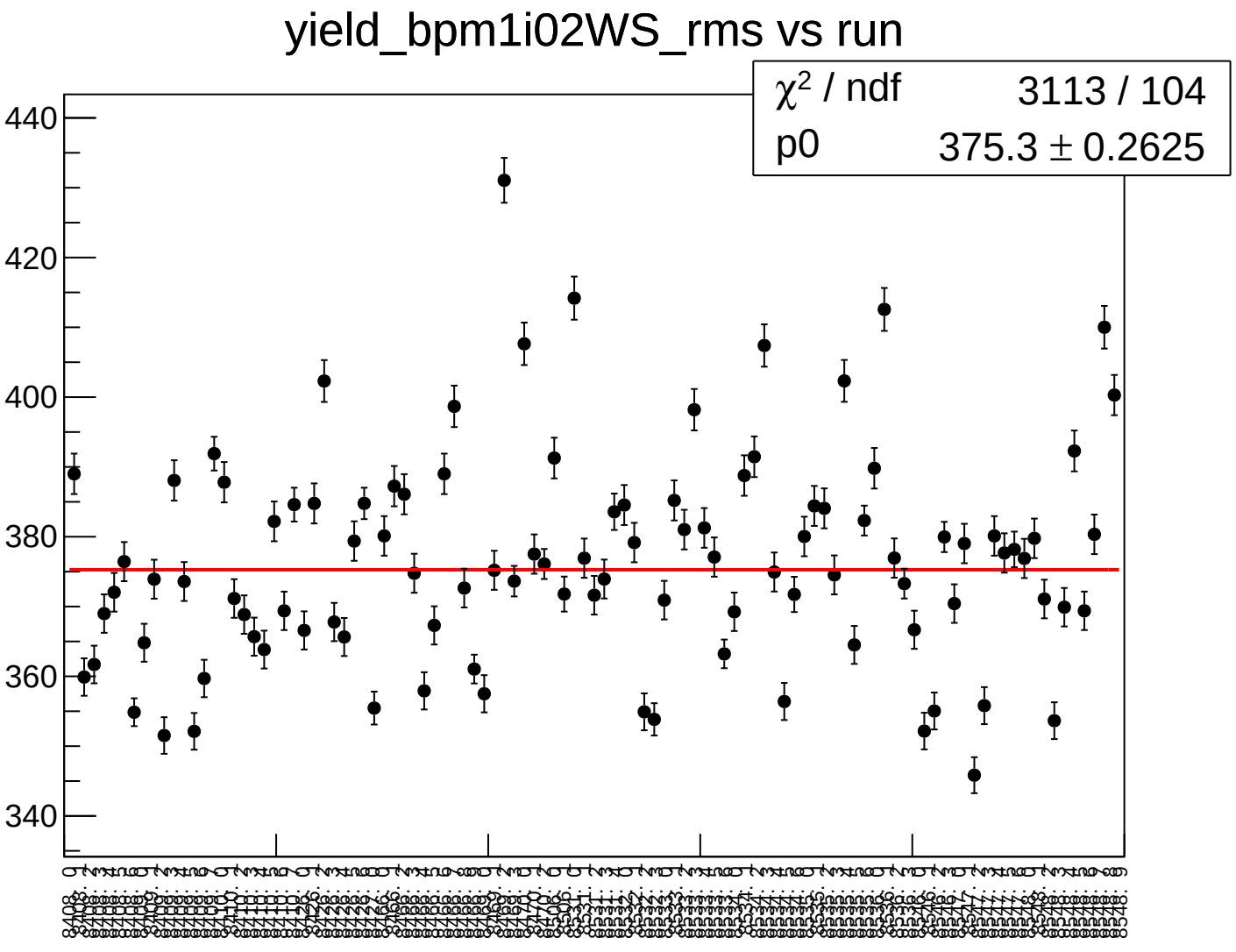

yield_bpm0i05WS_rms vs run
χ^2 / ndf 1.507e+04 / 104
p0 364.7 ± 0.2559
900
800
700
600
500
400
300

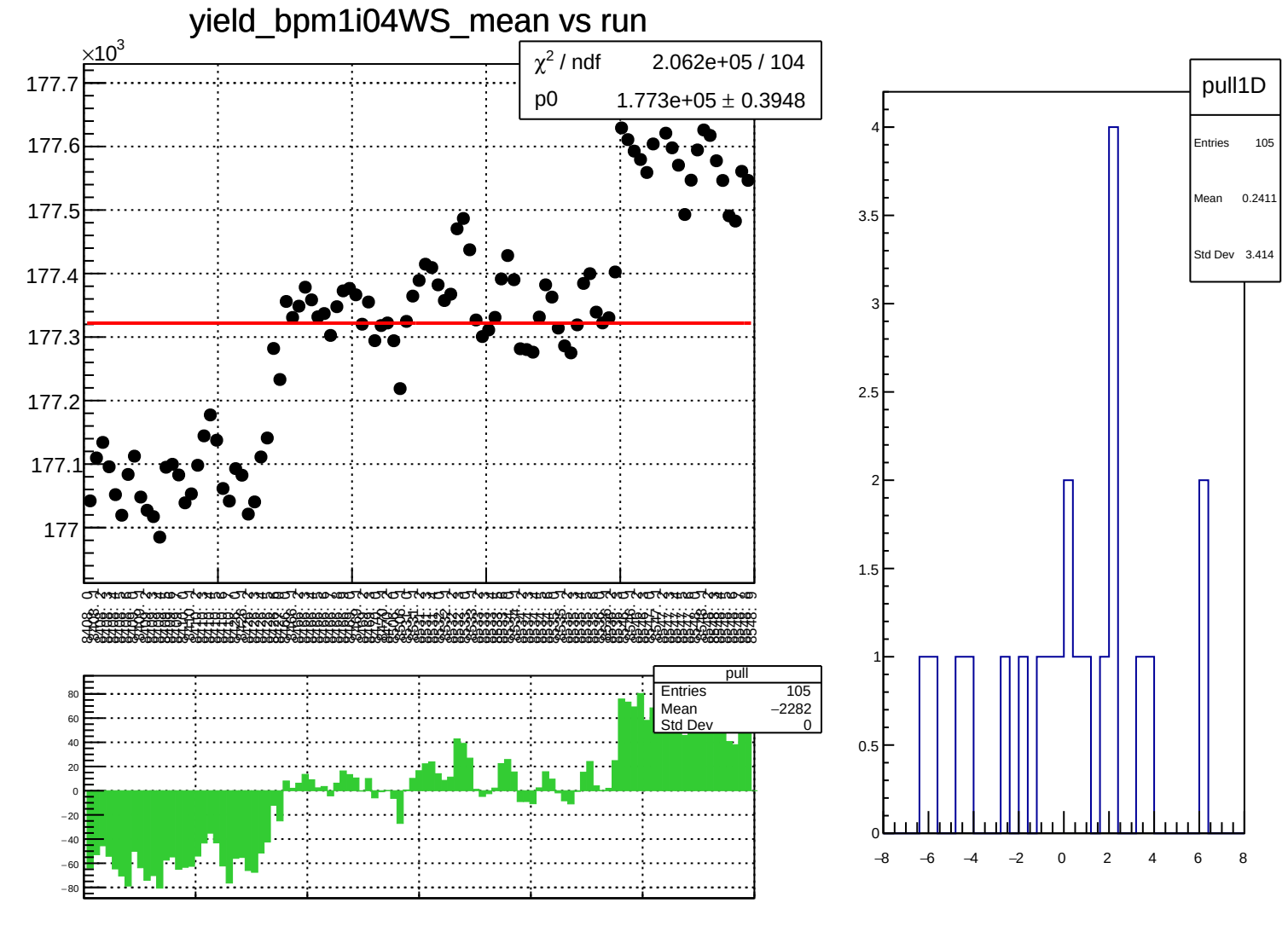

yield_bpm0i07WS_mean vs run
×10^3
χ^2 / ndf 1.896e+07 / 104
p0 1.386e+05 ± 0.3517
140.5
140
139.5
139
138.5
138
137.5
137
136.5
136
pull
Entries 105
Mean 969.5
Std Dev 0
600
400
200
0
−200
−400
−600

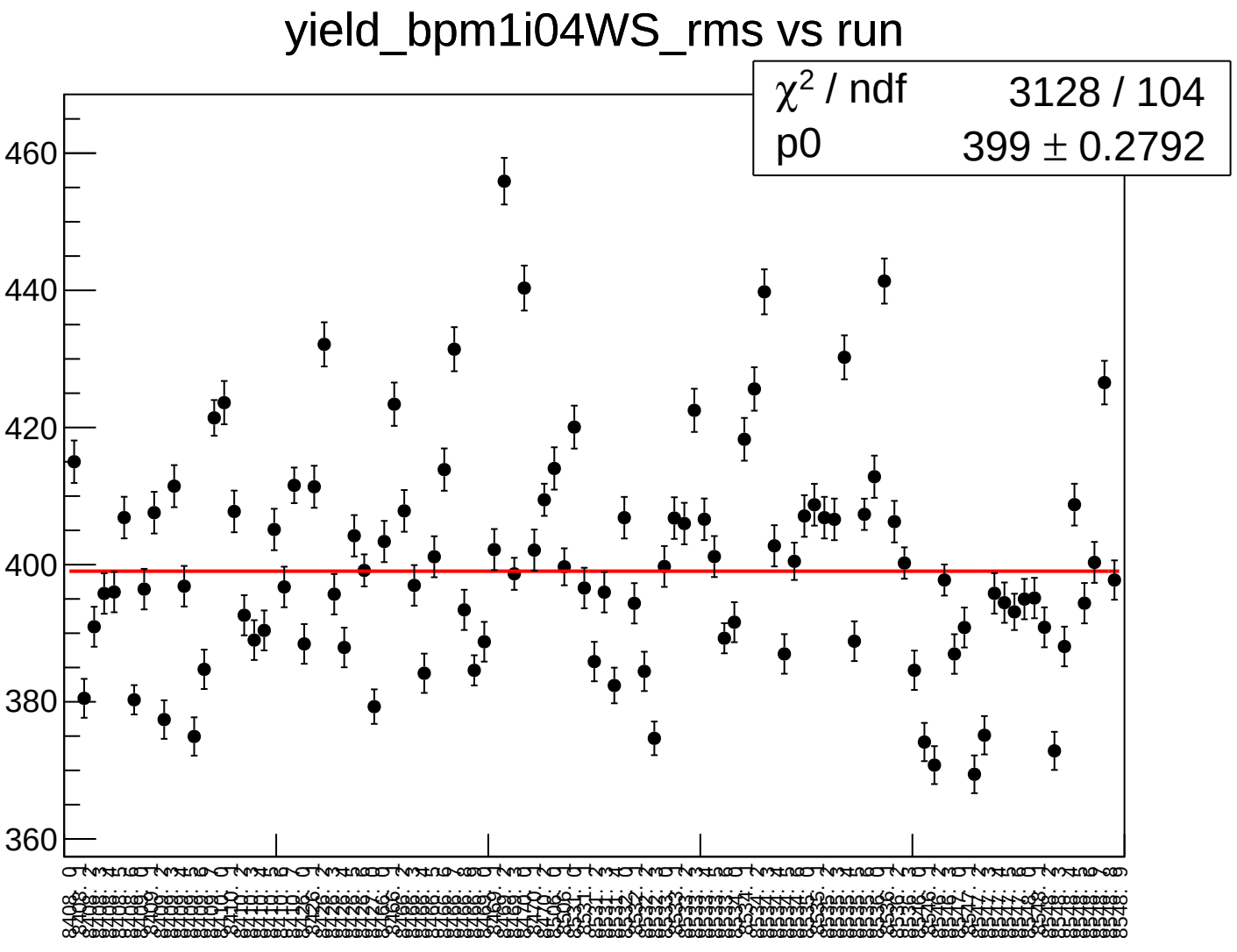

pull1D
Entries 105
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

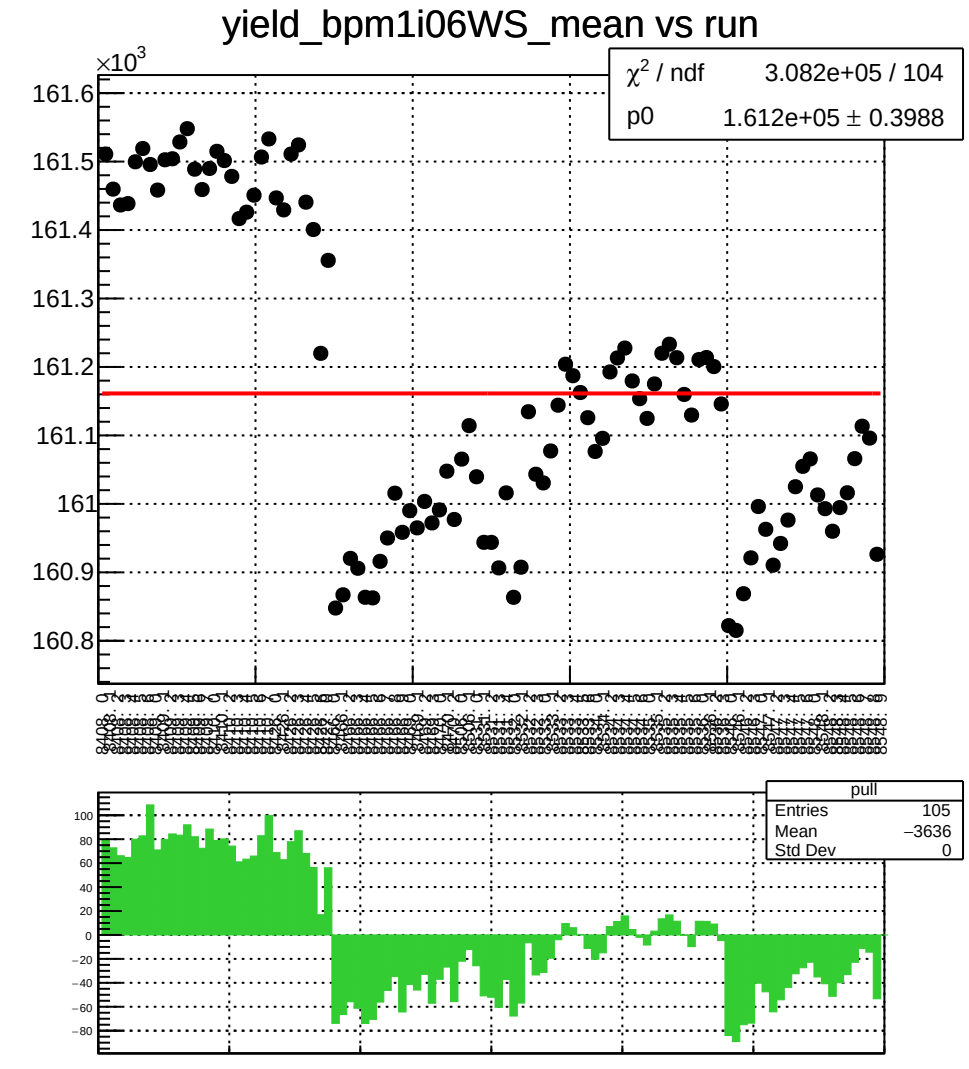

yield_bpm0i07WS_rms vs run
χ² / ndf 6890 / 104
p0 355.2 ± 0.2487
440
420
400
380
360
340
320

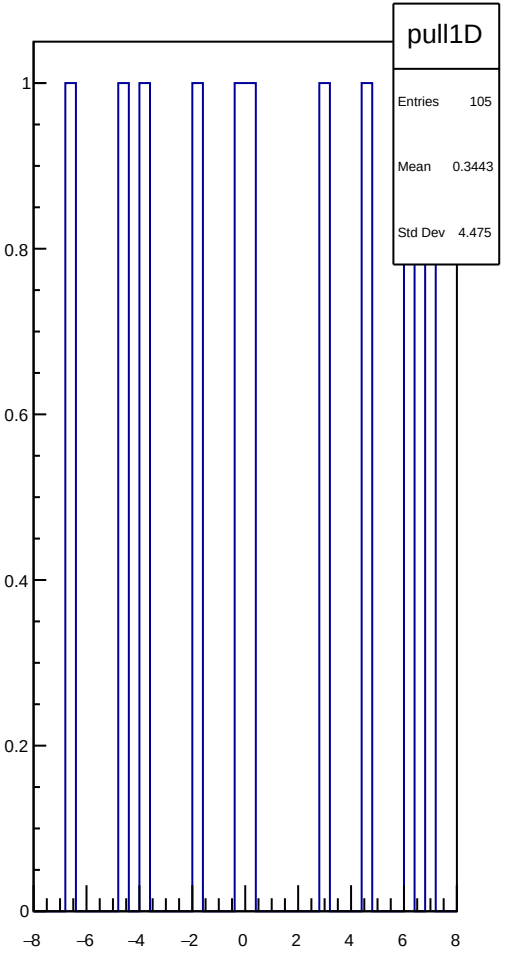

yield_bpm1i02WS_mean vs run
×10^3
χ^2 / ndf 1.201e+05 / 104
p0 1.749e+05 ± 0.3713
175.2
175.1
175
174.9
174.8
pull
Entries 105
Mean 2354
Std Dev 0
100
80
60
40
20
0
−20
−40
pull1D
Entries 105
Mean −3.847
Std Dev 3.661
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

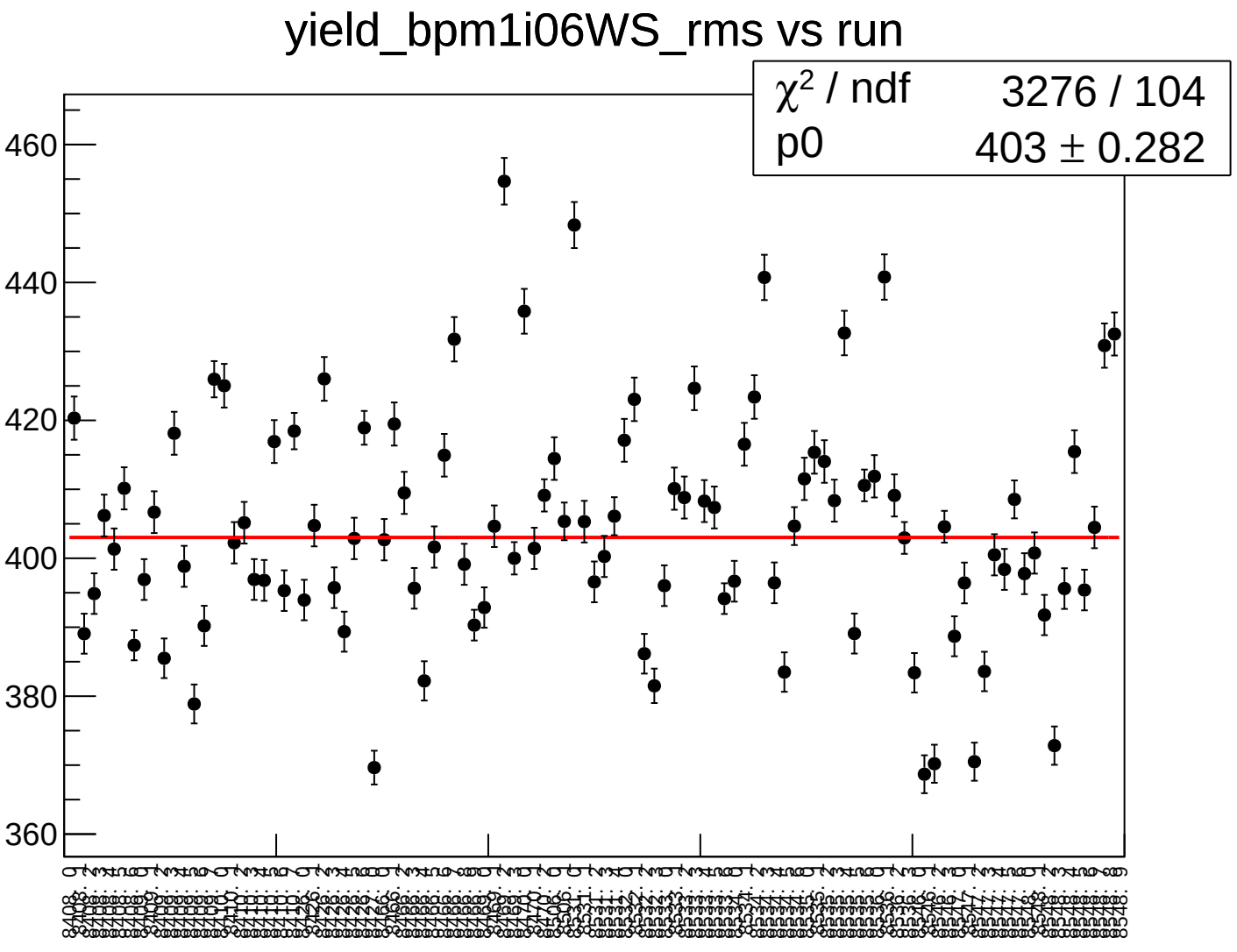

yield_bpm1i02WS_rms vs run
χ² / ndf 3113 / 104
p0 375.3 ± 0.2625
440
420
400
380
360
340

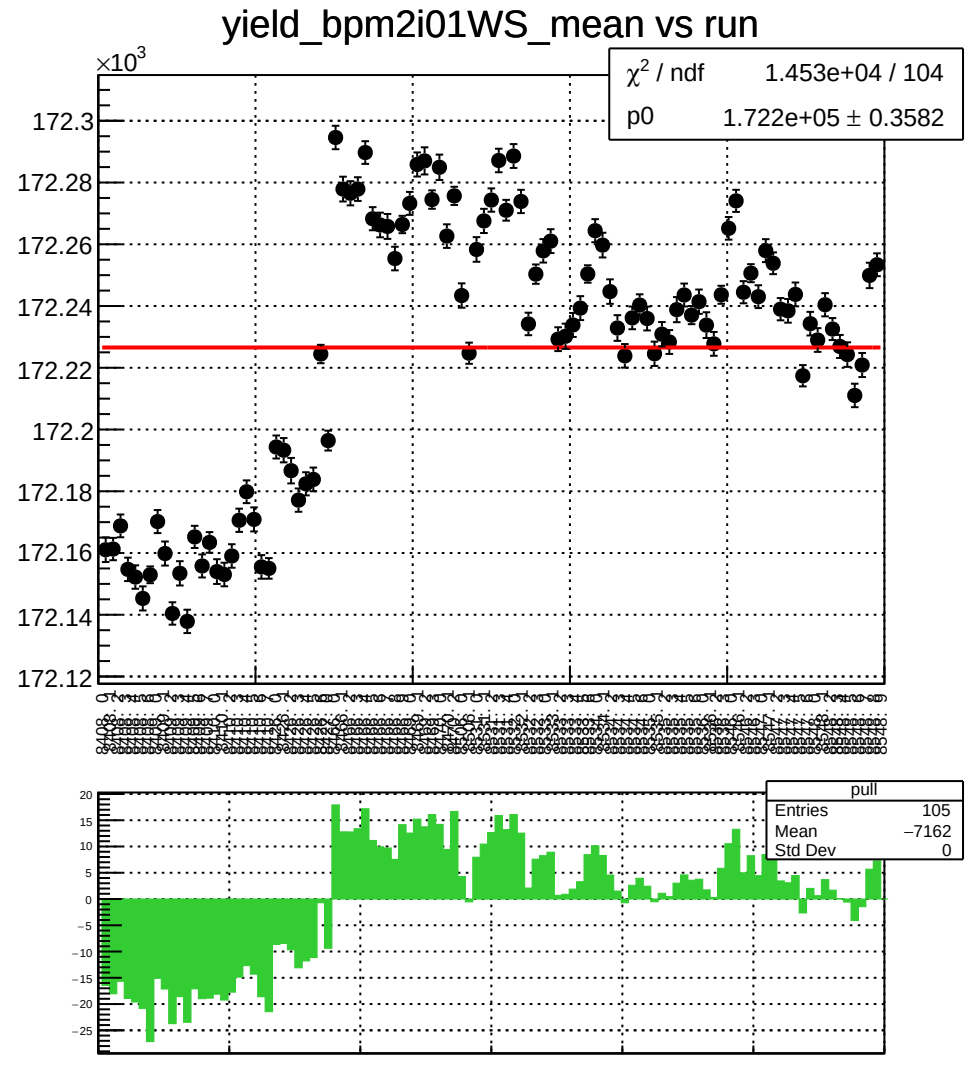

yield_bpm1i04WS_mean vs run
×10^3
177.7
177.6
177.5
177.4
177.3
177.2
177.1
177
χ² / ndf 2.062e+05 / 104
p0 1.773e+05 ± 0.3948
pull
Entries 105
Mean −2282
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80
pull1D
Entries 105
Mean 0.2411
Std Dev 3.414
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

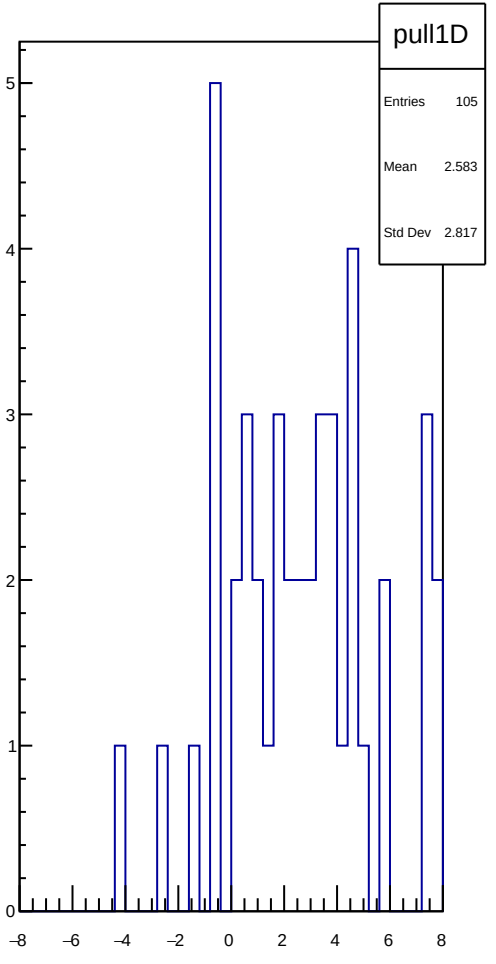

yield_bpm1i04WS_rms vs run
χ² / ndf 3128 / 104
p0 399 ± 0.2792
460
440
420
400
380
360

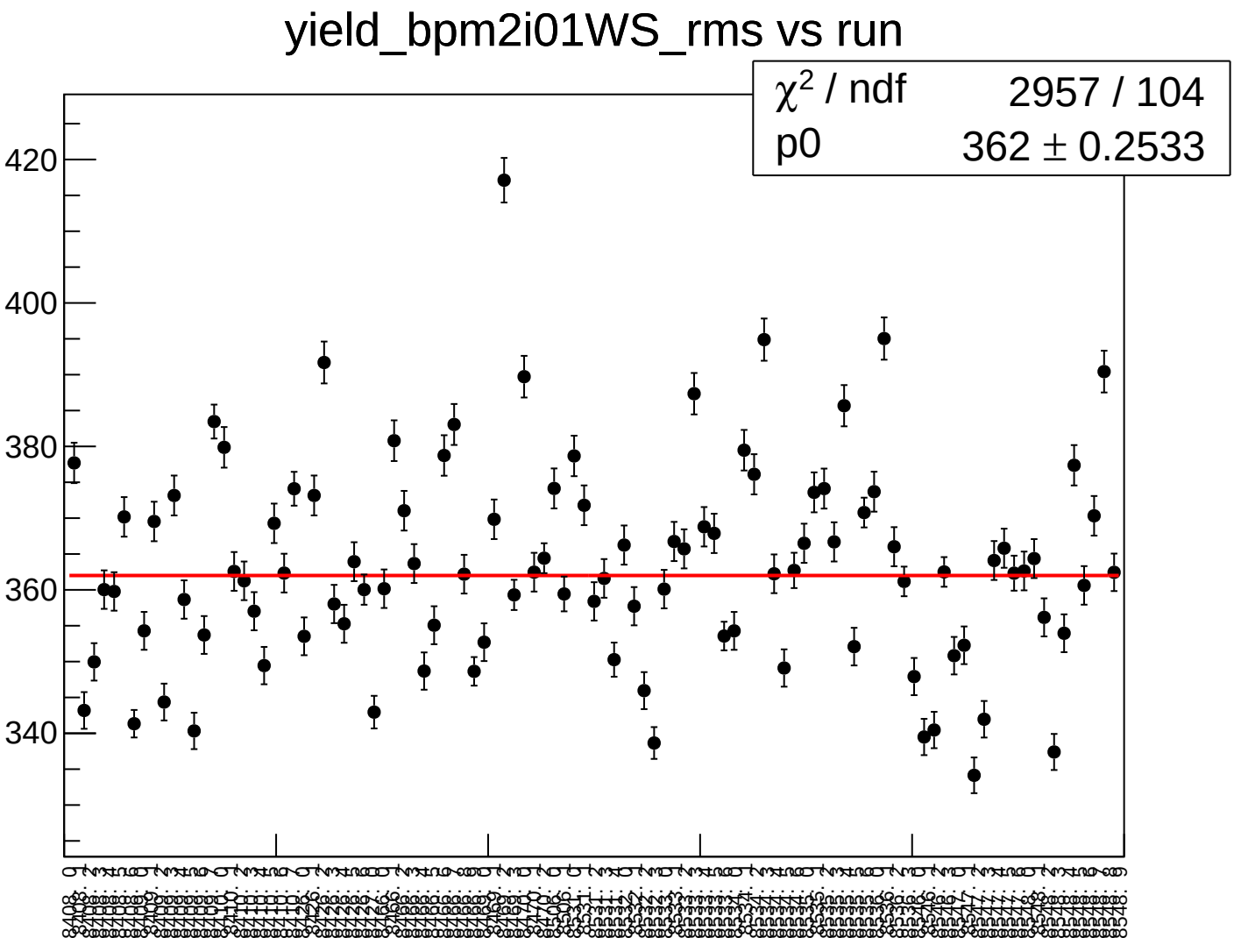

yield_bpm1i06WS_mean vs run
×10^3
χ² / ndf 3.082e+05 / 104
p0 1.612e+05 ± 0.3988
161.6
161.5
161.4
161.3
161.2
161.1
161
160.9
160.8
pull
Entries 105
Mean −3636
Std Dev 0
100
80
60
40
20
0
−20
−40
−60
−80

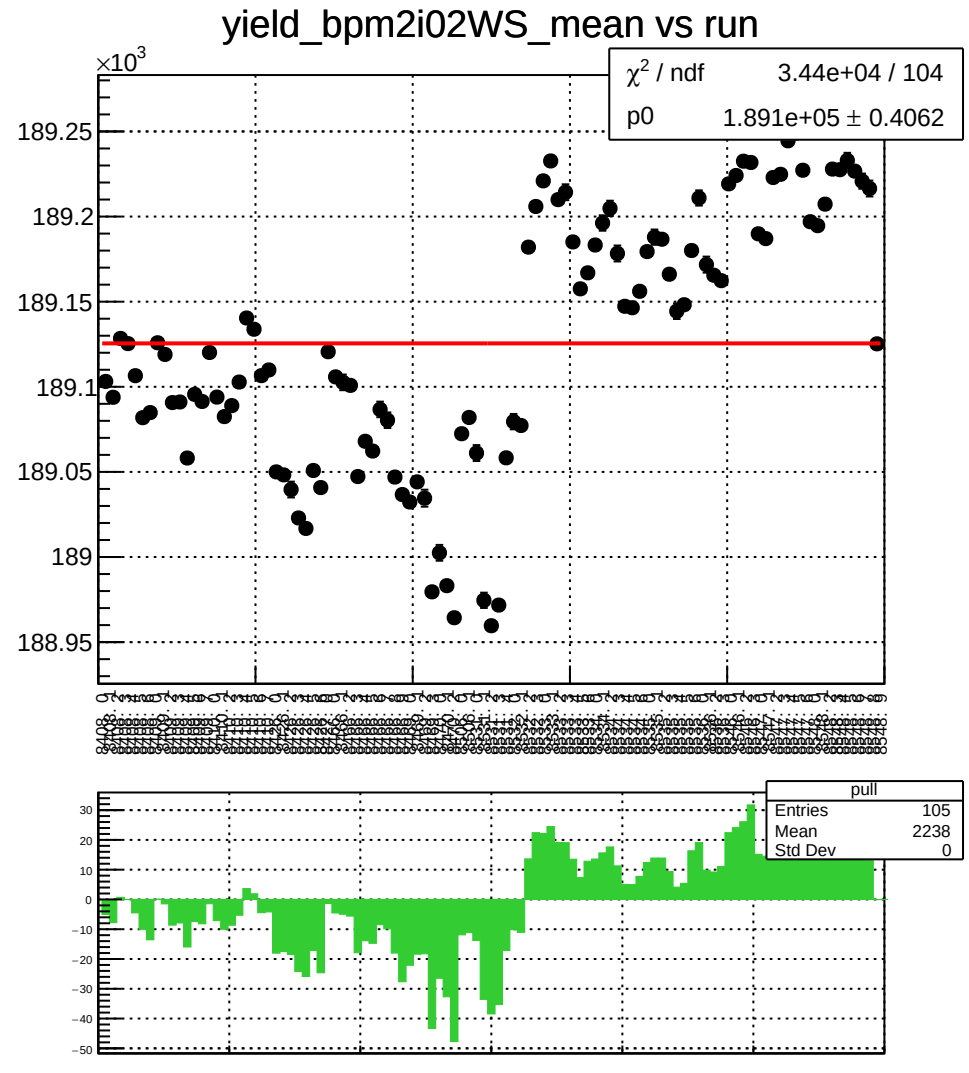

pull1D
Entries 105
Mean 0.3443
Std Dev 4.475
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

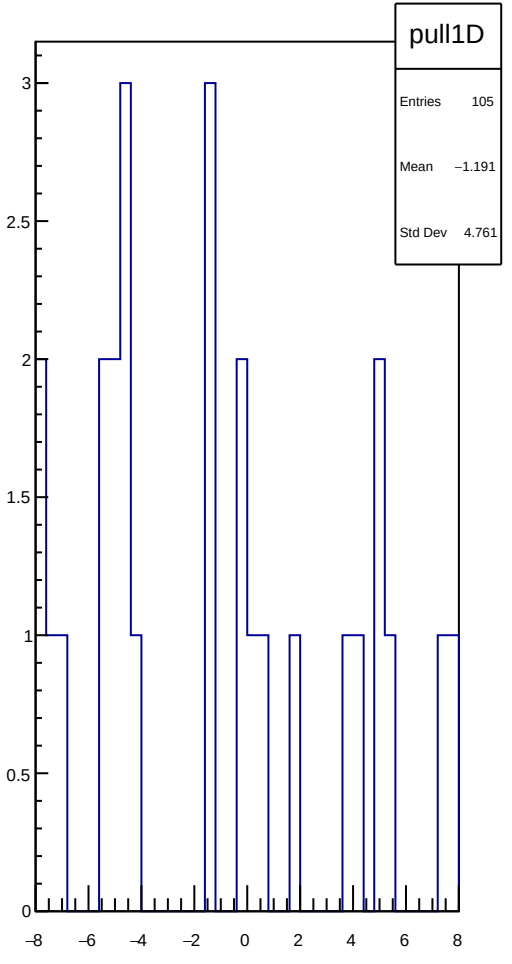

yield_bpm1i06WS_rms vs run
χ² / ndf 3276 / 104
p0 403 ± 0.282
460
440
420
400
380
360

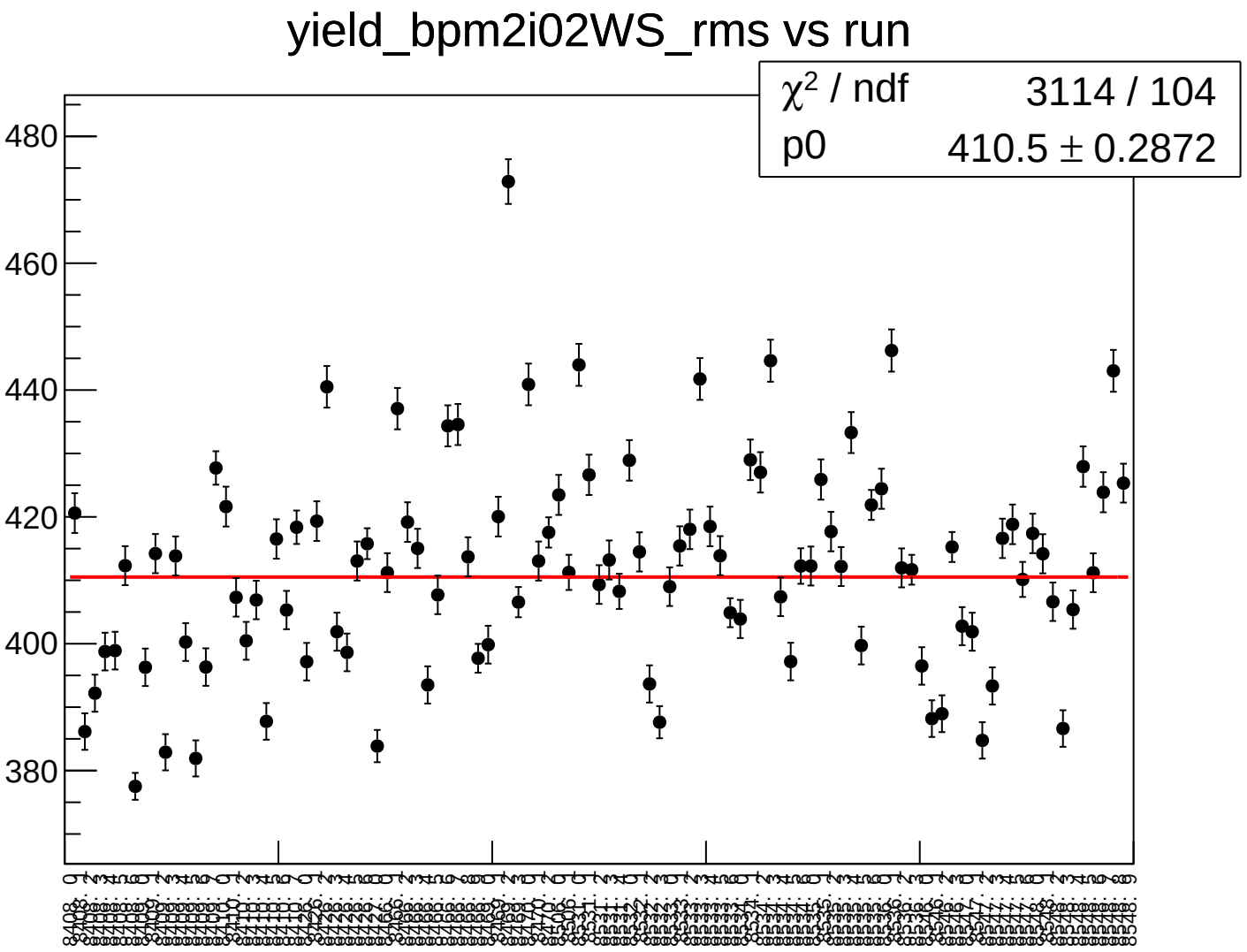

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 1.453e+04 / 104
p0 1.722e+05 ± 0.3582
172.3
172.28
172.26
172.24
172.22
172.2
172.18
172.16
172.14
172.12
pull
Entries 105
Mean −7162
Std Dev 0
20
15
10
5
0
−5
−10
−15
−20
−25

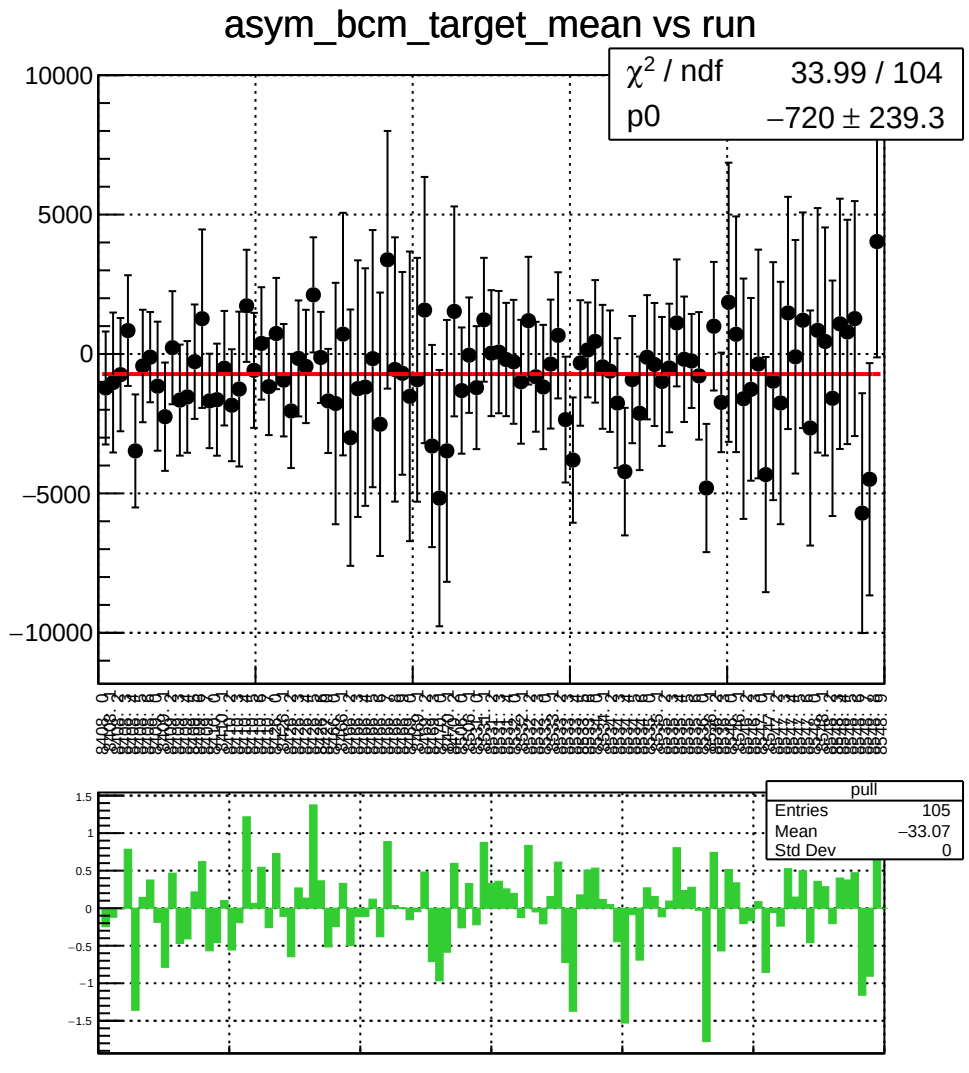

pull1D
Entries 105
Mean 2.583
Std Dev 2.817
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

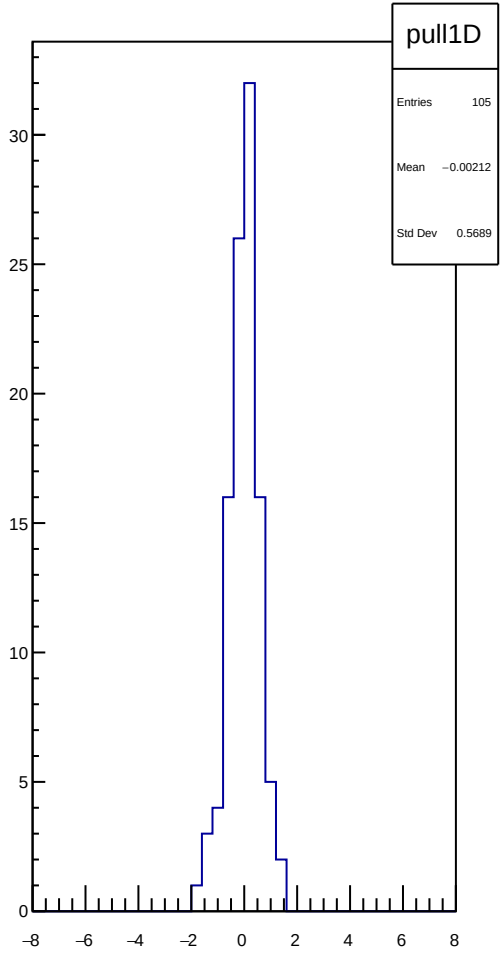

yield_bpm2i01WS_rms vs run
χ² / ndf 2957 / 104
p0 362 ± 0.2533
420
400
380
360
340

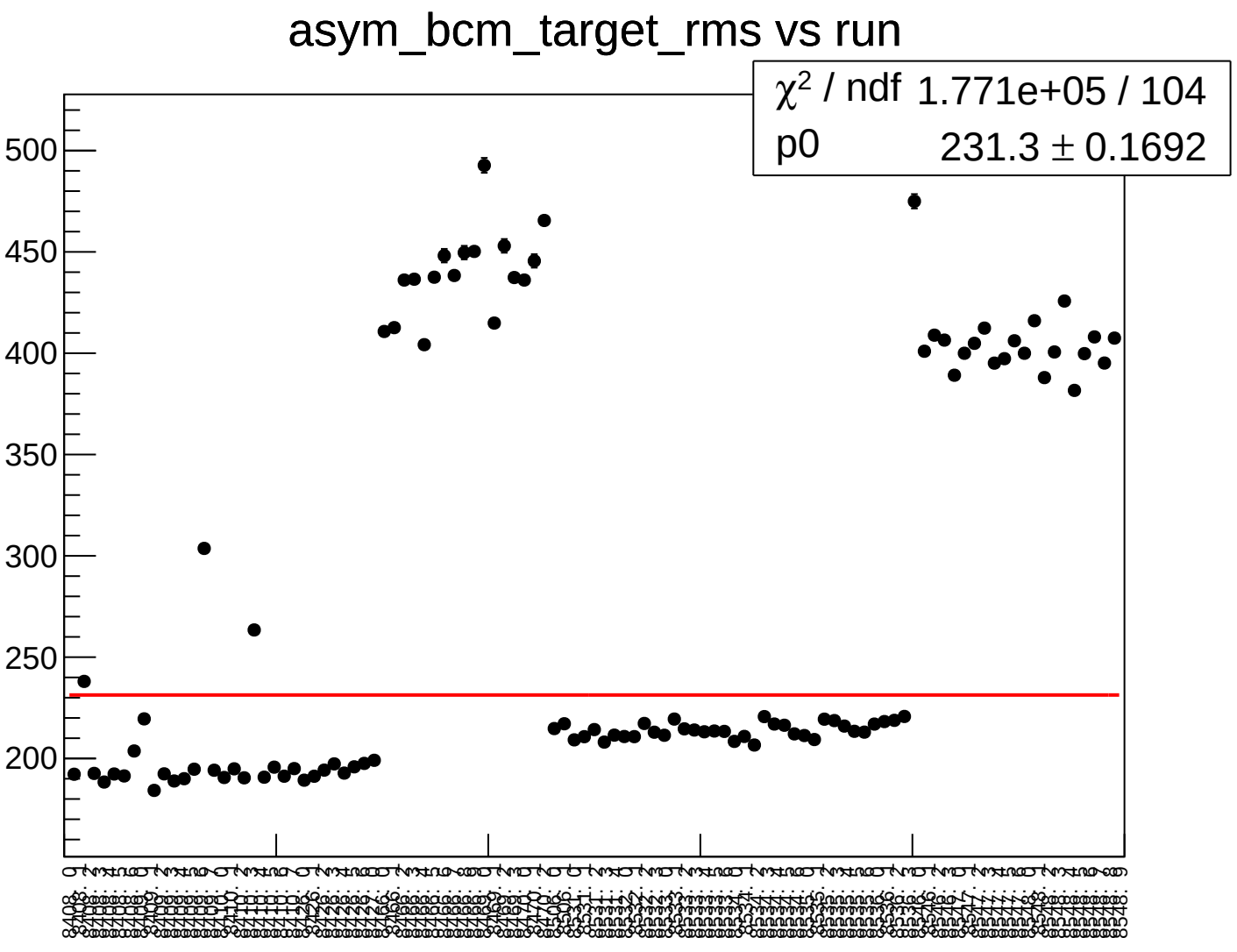

yield_bpm2i02WS_mean vs run
×10^3
χ^2 / ndf 3.44e+04 / 104
p0 1.891e+05 ± 0.4062
189.25
189.2
189.15
189.1
189.05
189
188.95
pull
Entries 105
Mean 2238
Std Dev 0
30
20
10
0
−10
−20
−30
−40
−50

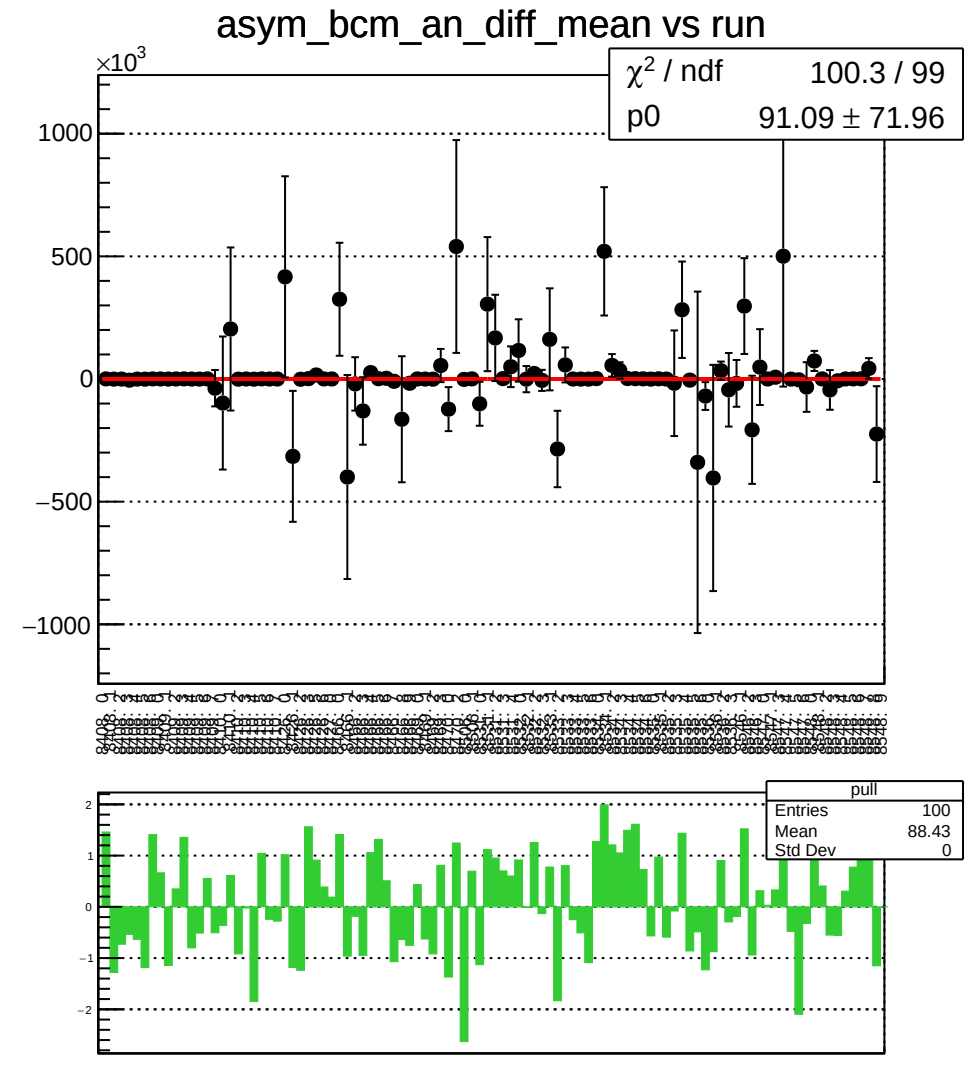

pull1D
Entries 105
Mean −1.191
Std Dev 4.761
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

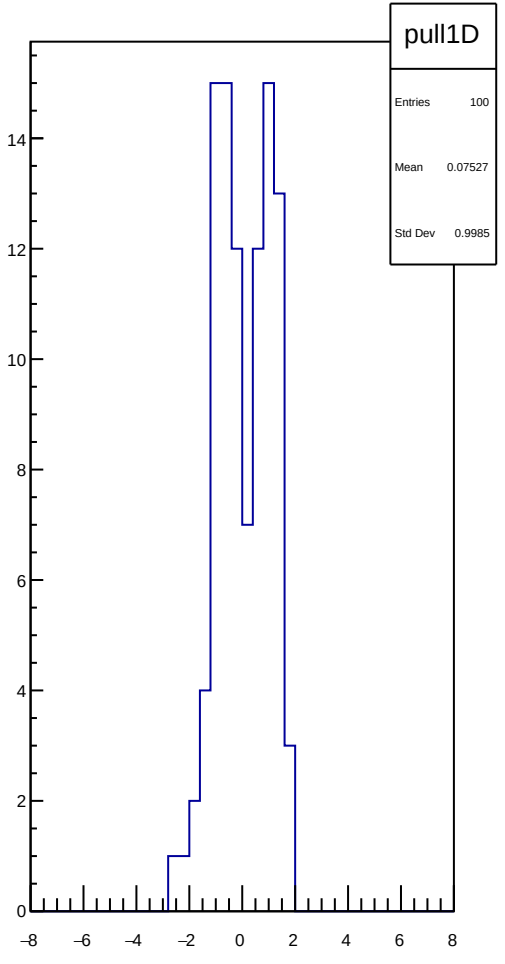

yield_bpm2i02WS_rms vs run
χ² / ndf 3114 / 104
p0 410.5 ± 0.2872
480
460
440
420
400
380

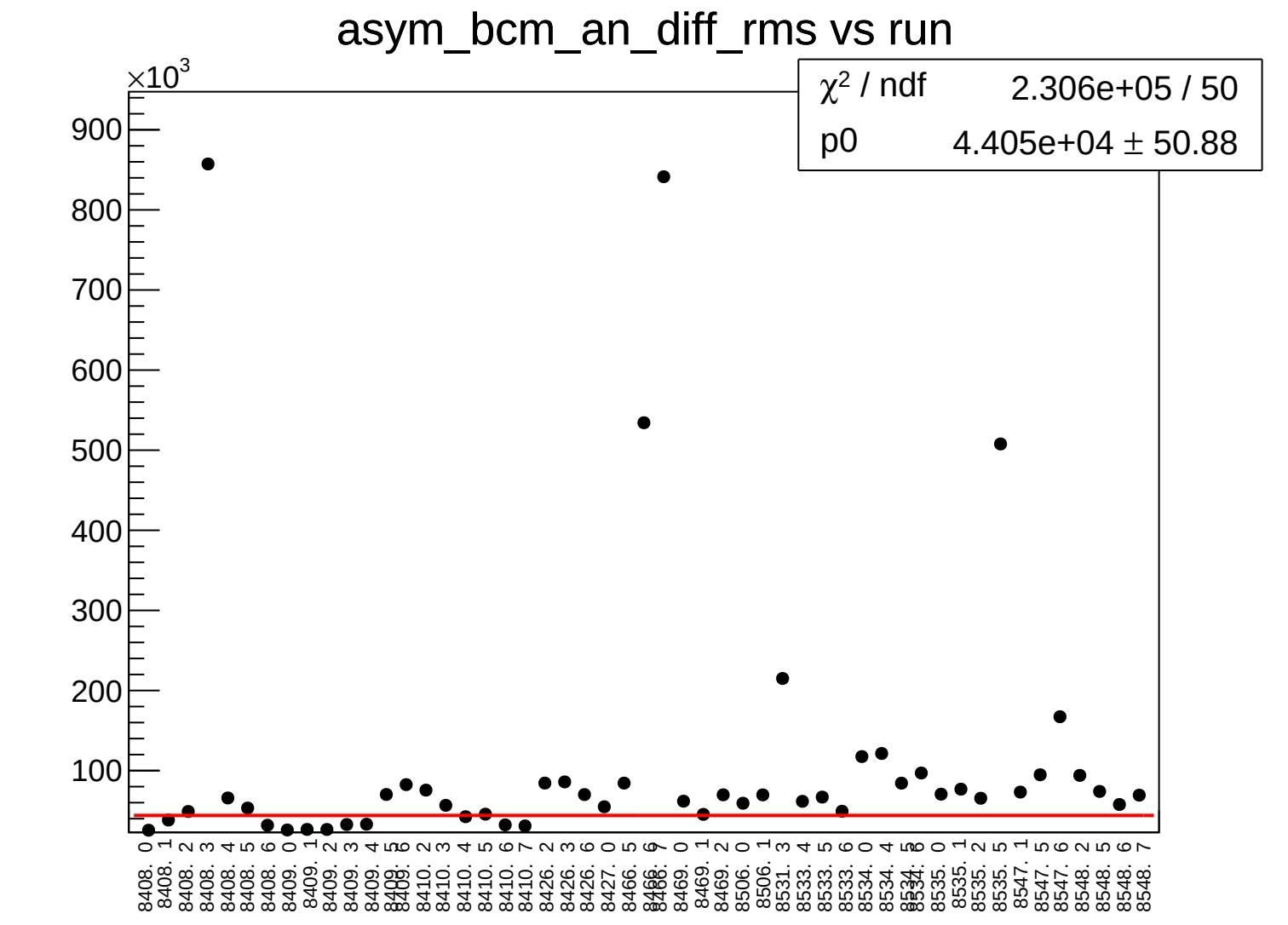

asym_bcm_target_mean vs run
χ² / ndf 33.99 / 104
p0 −720 ± 239.3
10000
5000
0
−5000
−10000
pull
Entries 105
Mean −33.07
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

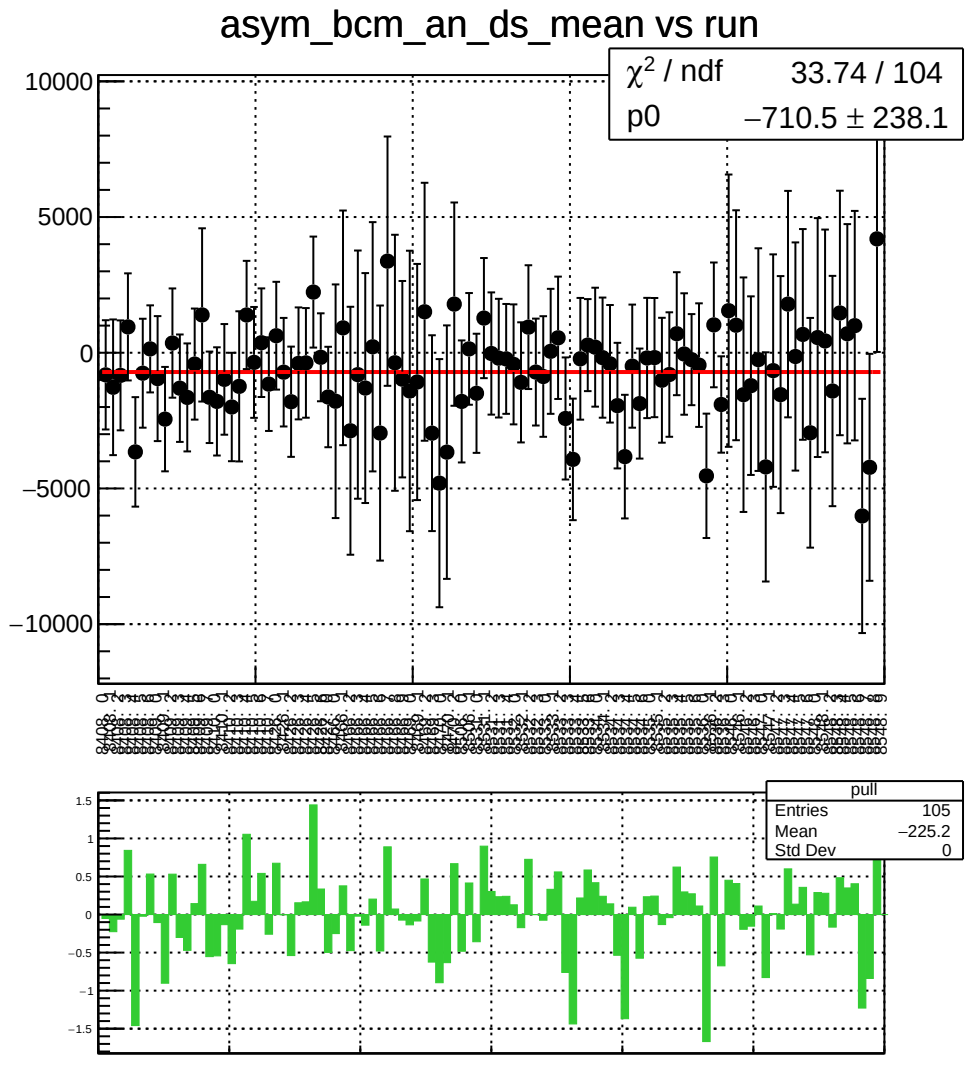

pull1D
Entries 105
Mean −0.00212
Std Dev 0.5689
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

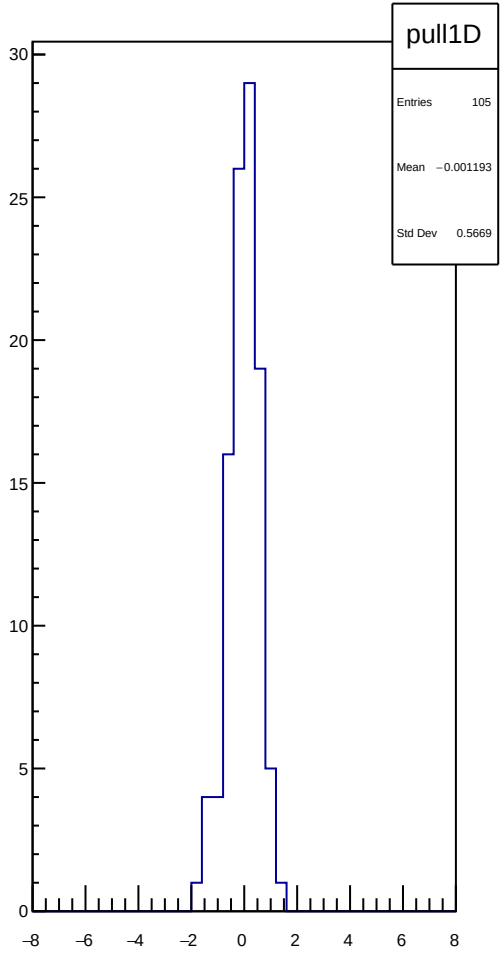

asym_bcm_target_rms vs run
χ^2 / ndf 1.771e+05 / 104
p0 231.3 ± 0.1692
500
450
400
350
300
250
200

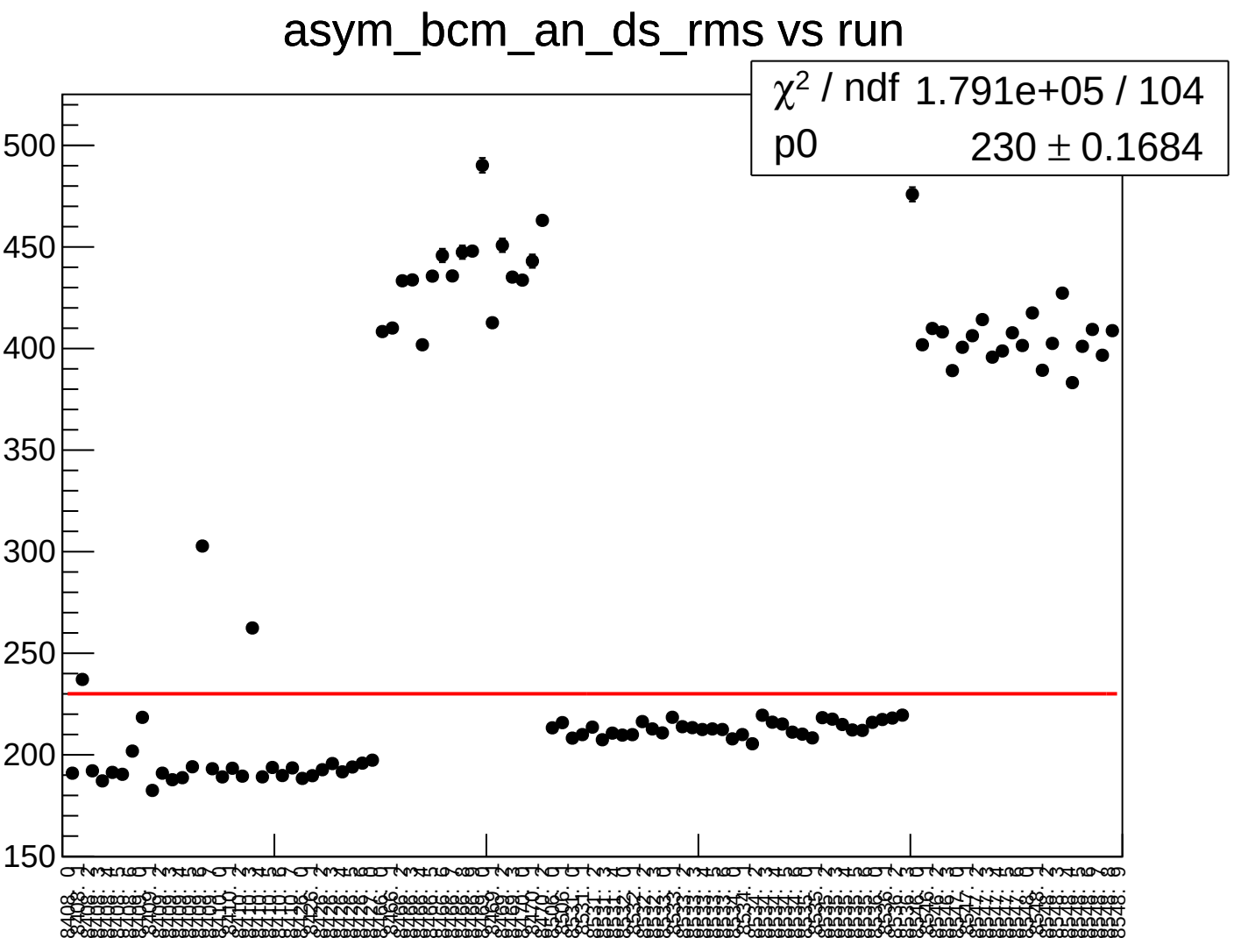

asym_bcm_an_diff_mean vs run
×10^3
χ^2 / ndf 100.3 / 99
p0 91.09 ± 71.96
1000
500
0
−500
−1000
pull
Entries 100
Mean 88.43
Std Dev 0
2
1
0
−1
−2

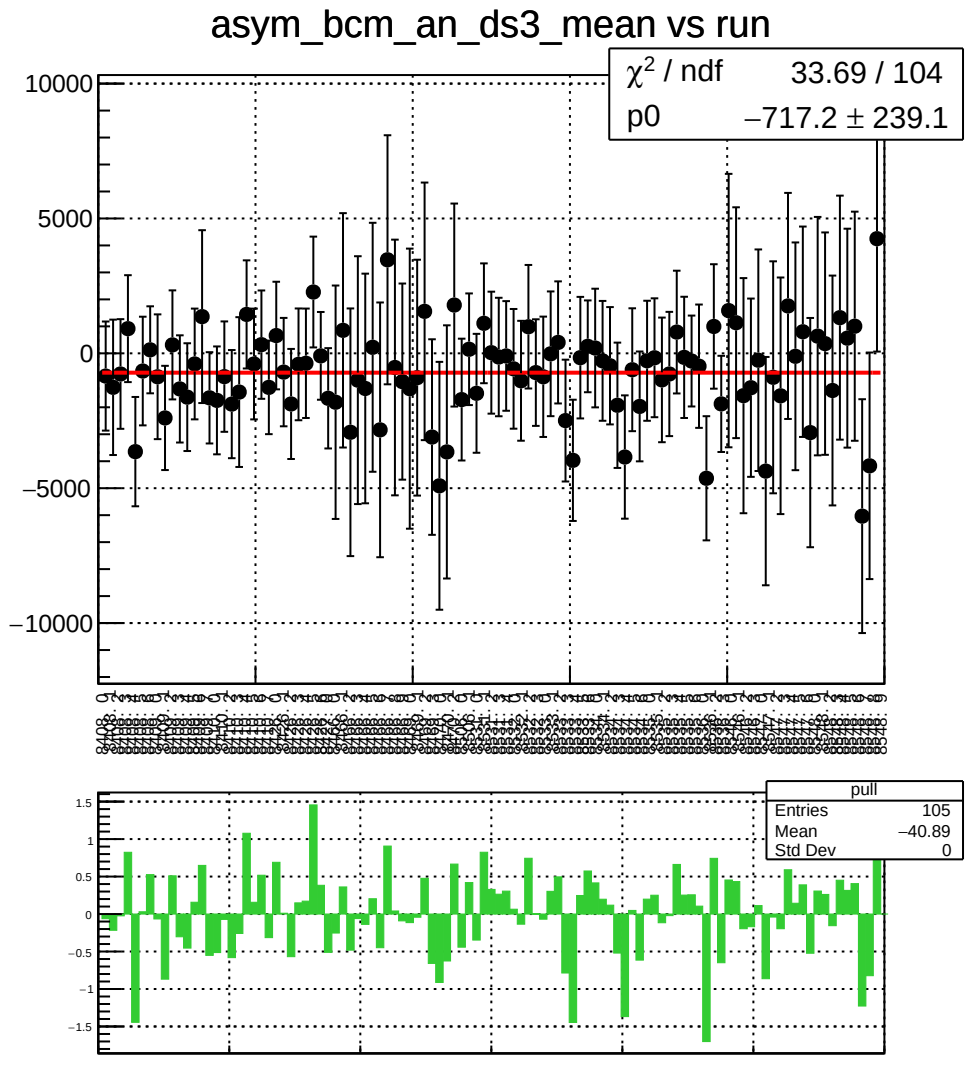

pull1D
Entries 100
Mean 0.07527
Std Dev 0.9985
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

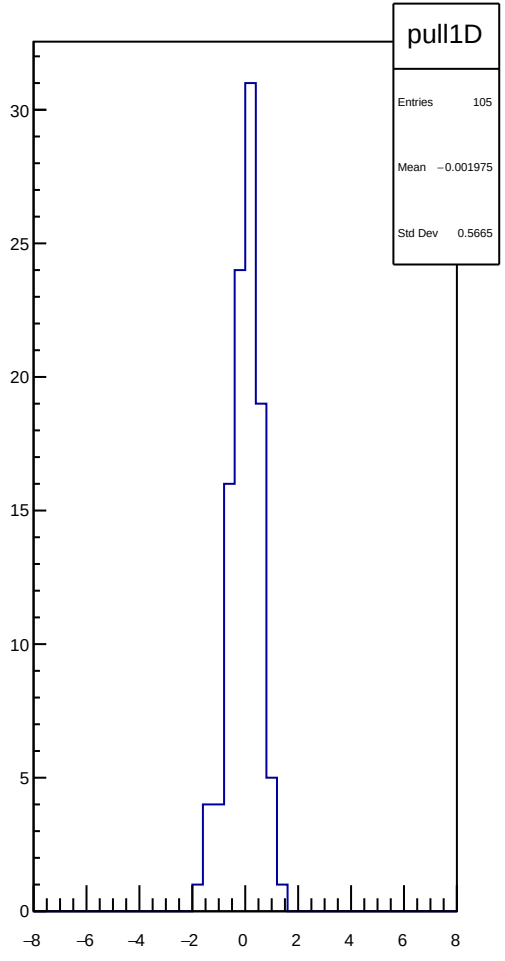

asym_bcm_an_diff_rms vs run
×10^3
χ² / ndf 2.306e+05 / 50
p0 4.405e+04 ± 50.88
900
800
700
600
500
400
300
200
100
8408. 0
8408. 1
8408. 2
8408. 3
8408. 4
8408. 5
8408. 6
8409. 0
8409. 1
8409. 2
8409. 3
8409. 4
8410. 2
8410. 3
8410. 4
8410. 5
8410. 6
8410. 7
8426. 2
8426. 3
8426. 6
8427. 0
8466. 5
8469. 0
8469. 1
8469. 2
8506. 0
8506. 1
8531. 3
8533. 4
8533. 5
8533. 6
8534. 0
8534. 4
8535. 0
8535. 1
8535. 2
8535. 5
8547. 1
8547. 5
8547. 6
8548. 2
8548. 5
8548. 6
8548. 7

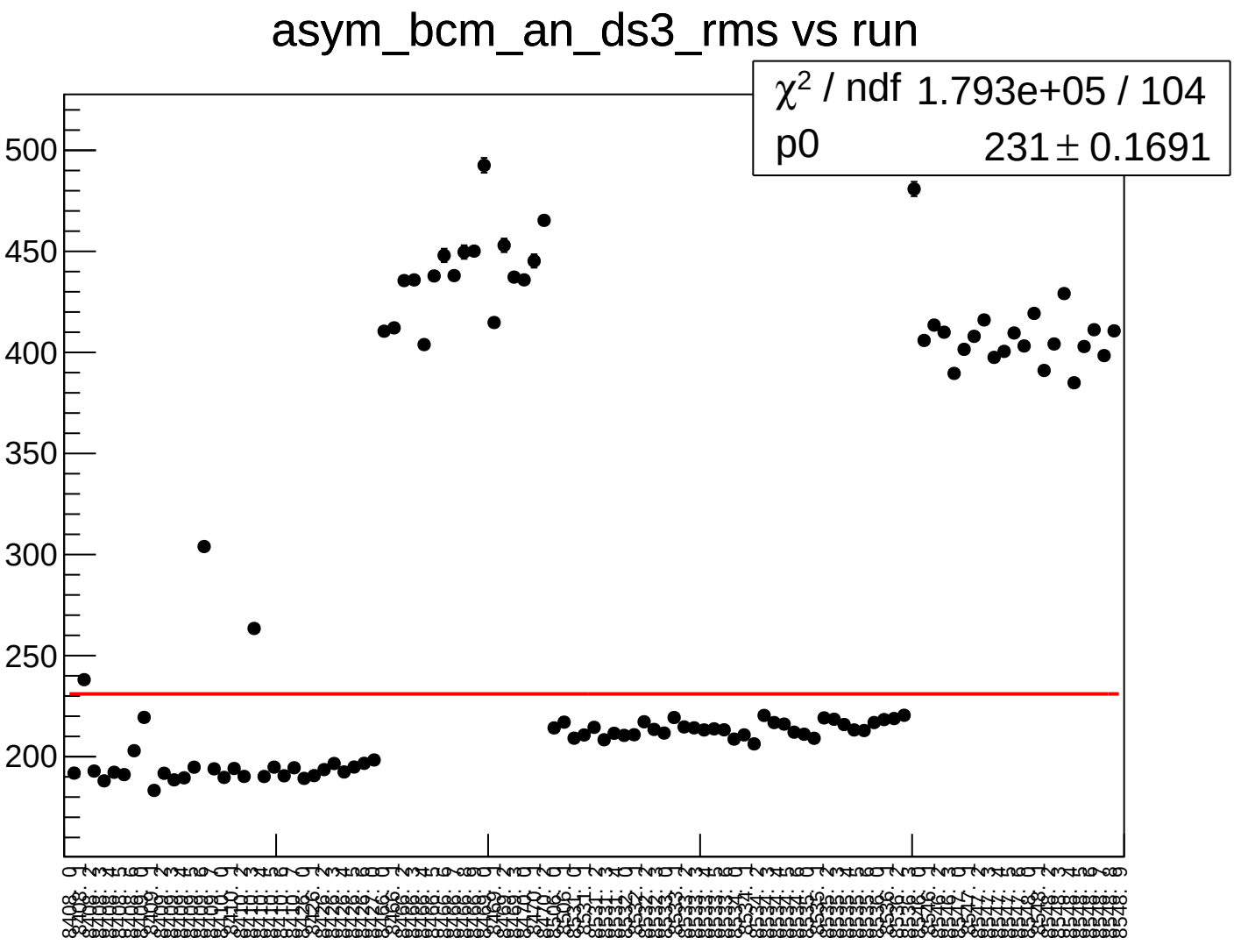

asym_bcm_an_ds_mean vs run
χ² / ndf 33.74 / 104
p0 −710.5 ± 238.1
10000
5000
0
−5000
−10000
pull
Entries 105
Mean −225.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

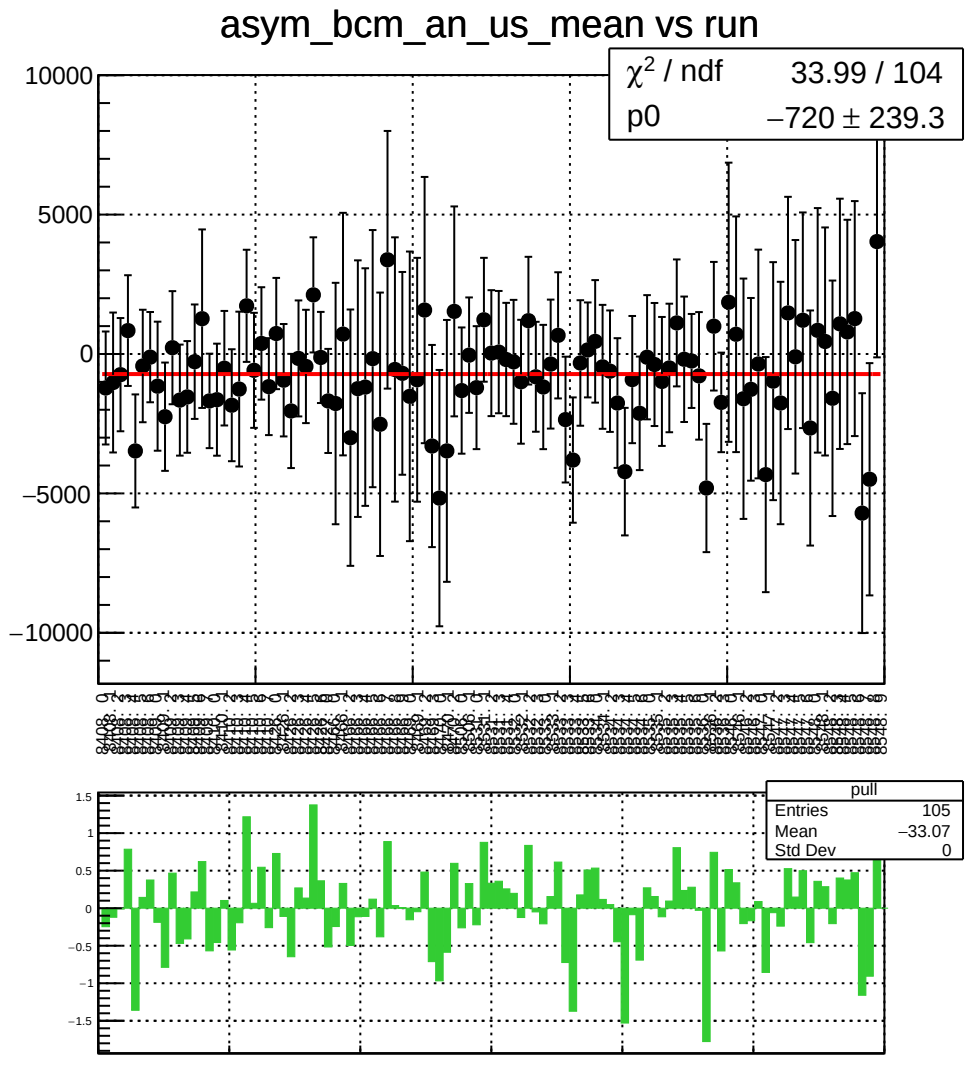

pull1D
Entries 105
Mean −0.001193
Std Dev 0.5669
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

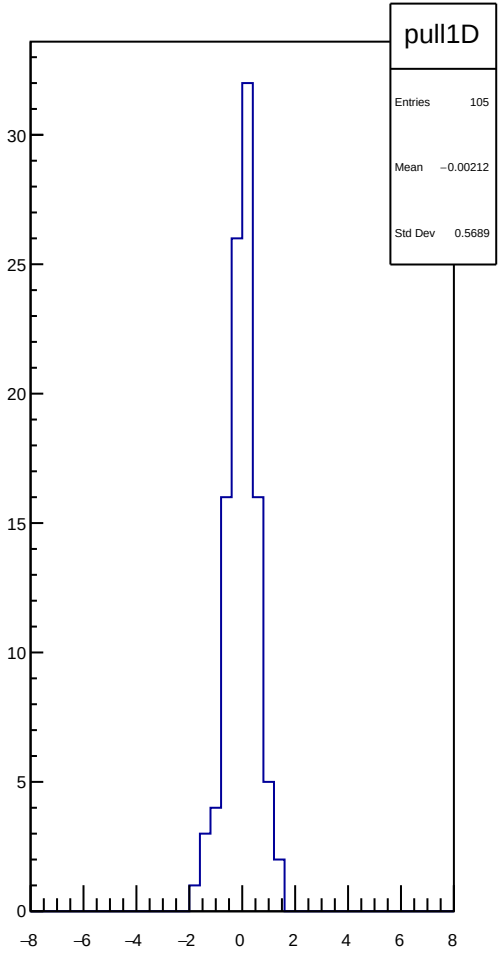

asym_bcm_an_ds_rms vs run
χ^2 / ndf 1.791e+05 / 104
p0 230 ± 0.1684
500
450
400
350
300
250
200
150

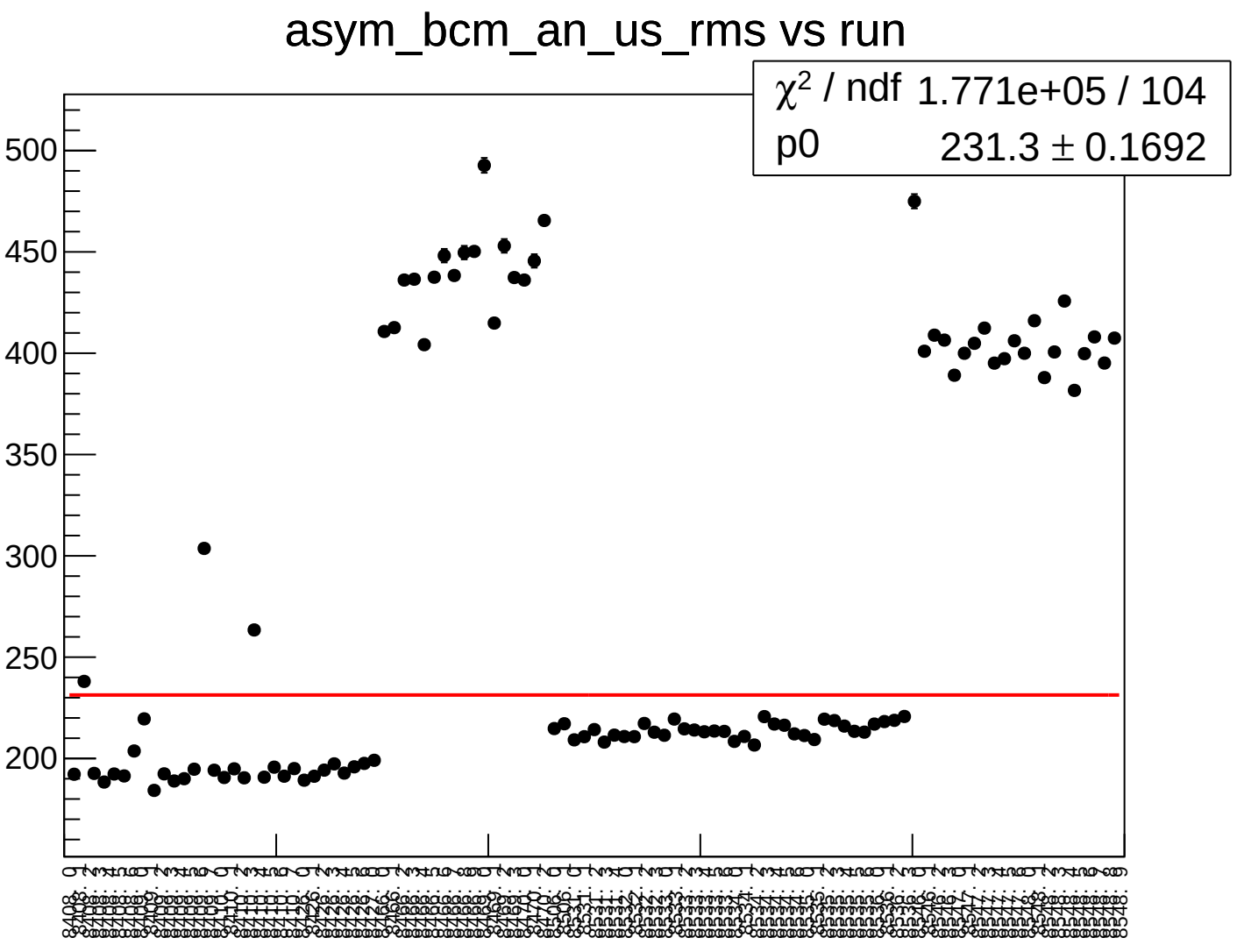

asym_bcm_an_ds3_mean vs run
χ² / ndf 33.69 / 104
p0 −717.2 ± 239.1
10000
5000
0
−5000
−10000
pull
Entries 105
Mean −40.89
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

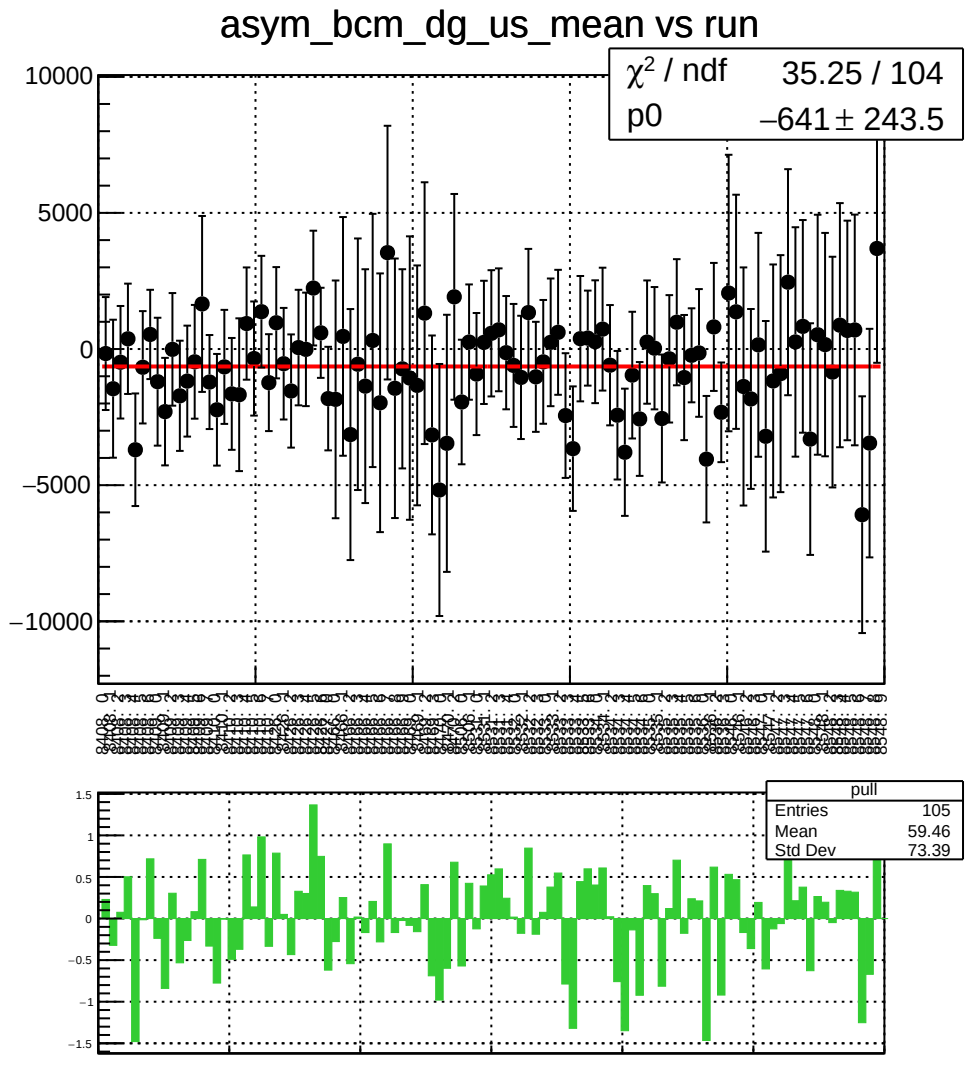

pull1D
Entries 105
Mean −0.001975
Std Dev 0.5665
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

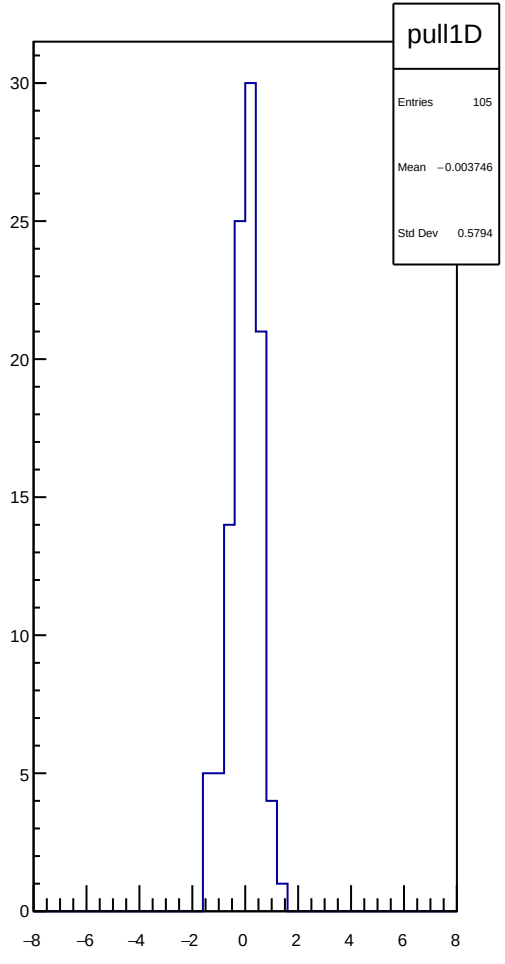

asym_bcm_an_ds3_rms vs run
χ^2 / ndf 1.793e+05 / 104
p0 231 ± 0.1691
500
450
400
350
300
250
200

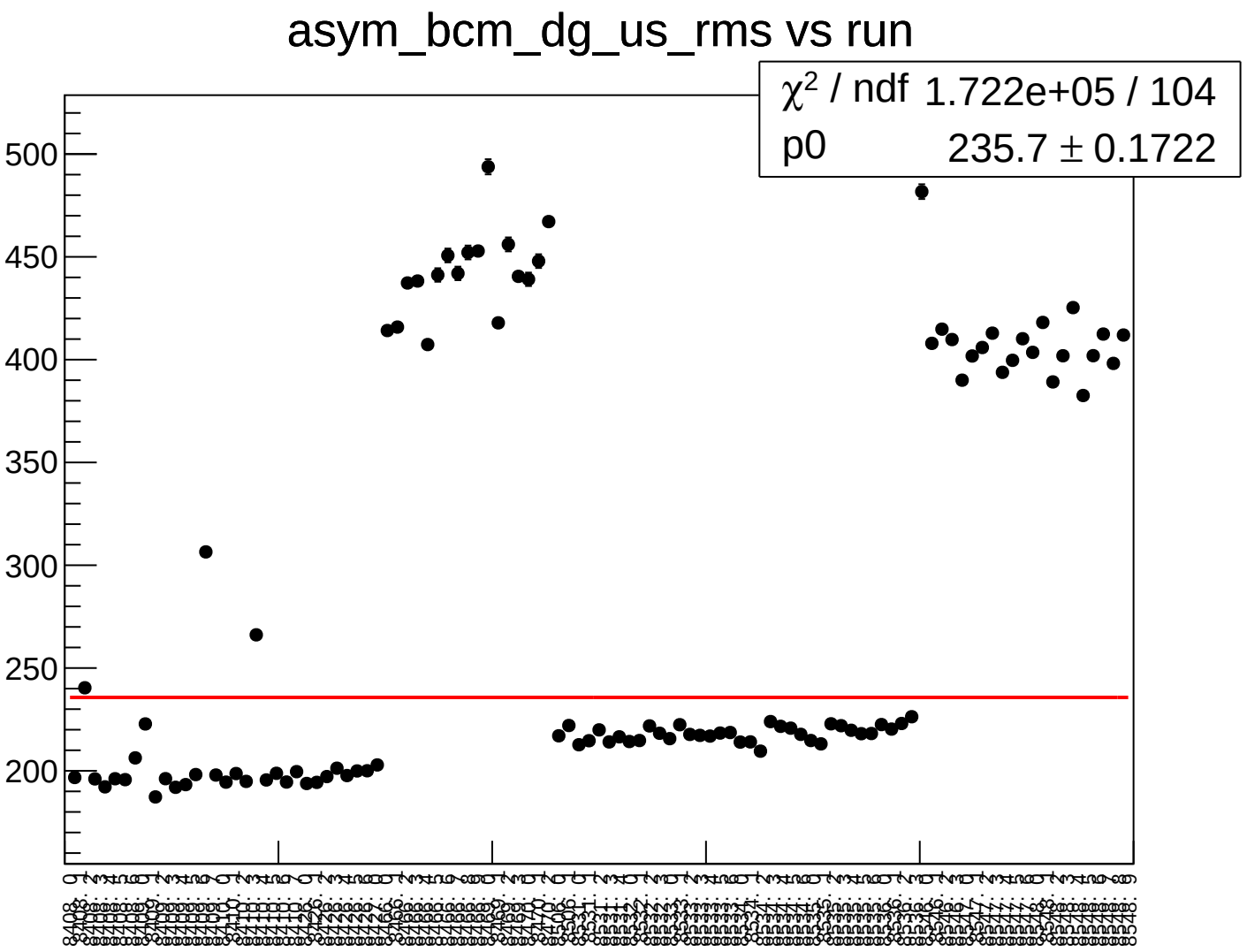

asym_bcm_an_us_mean vs run
χ² / ndf 33.99 / 104
p0 −720 ± 239.3
10000
5000
0
−5000
−10000
pull
Entries 105
Mean −33.07
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

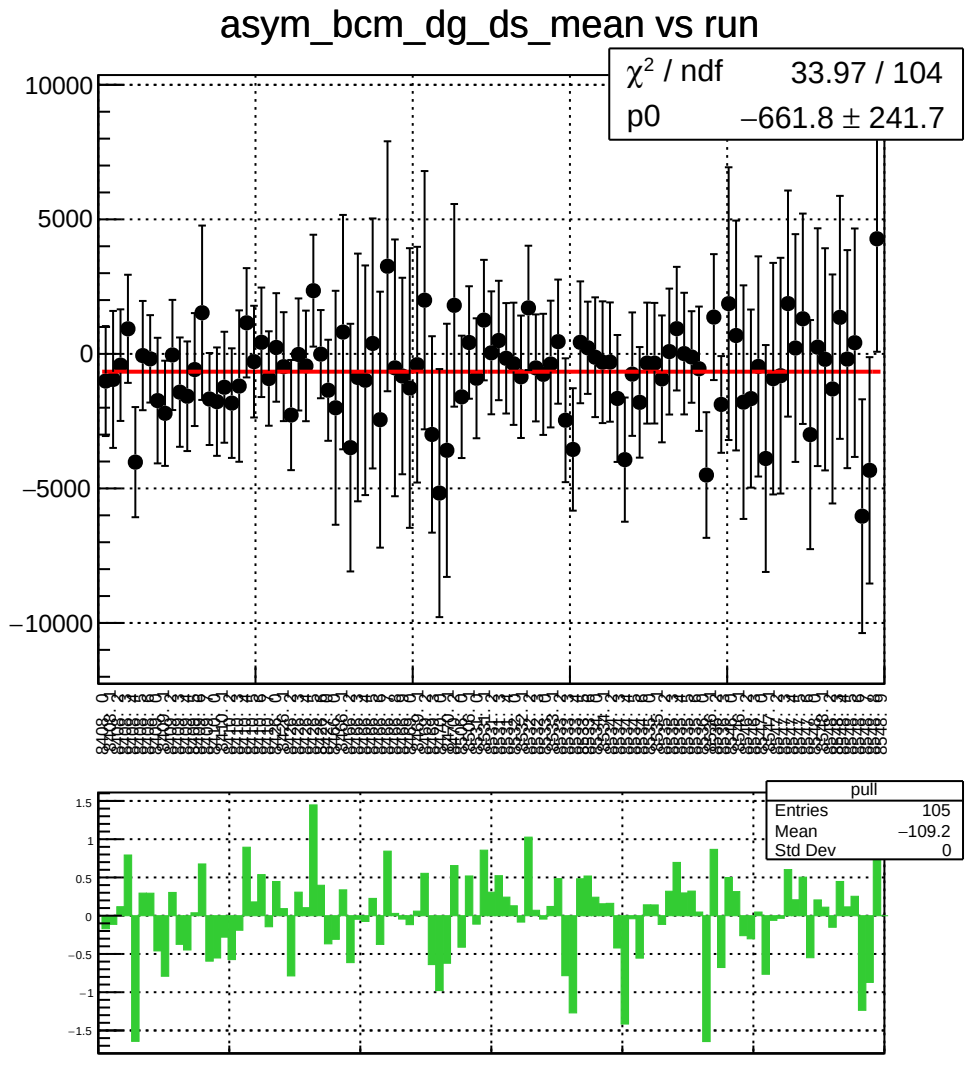

pull1D
Entries 105
Mean −0.00212
Std Dev 0.5689
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

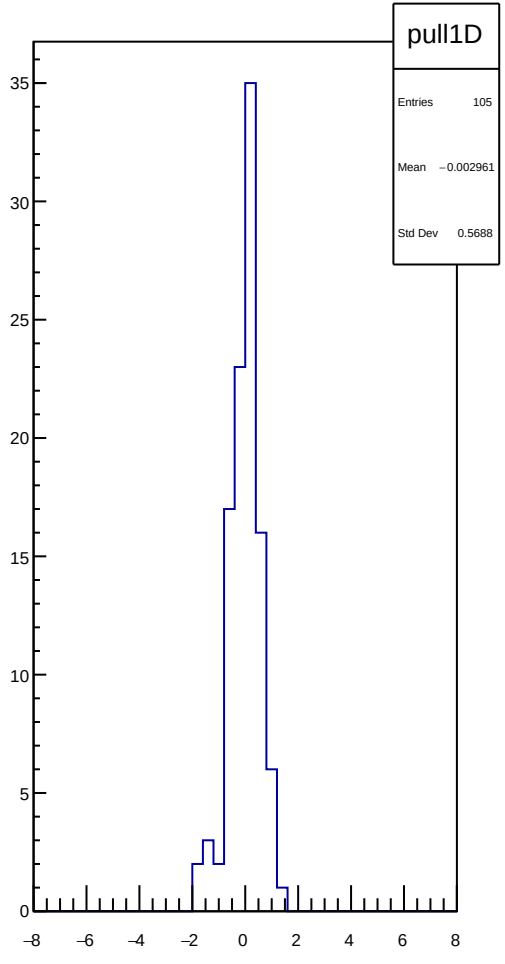

asym_bcm_an_us_rms vs run
χ^2 / ndf 1.771e+05 / 104
p0 231.3 ± 0.1692
500
450
400
350
300
250
200

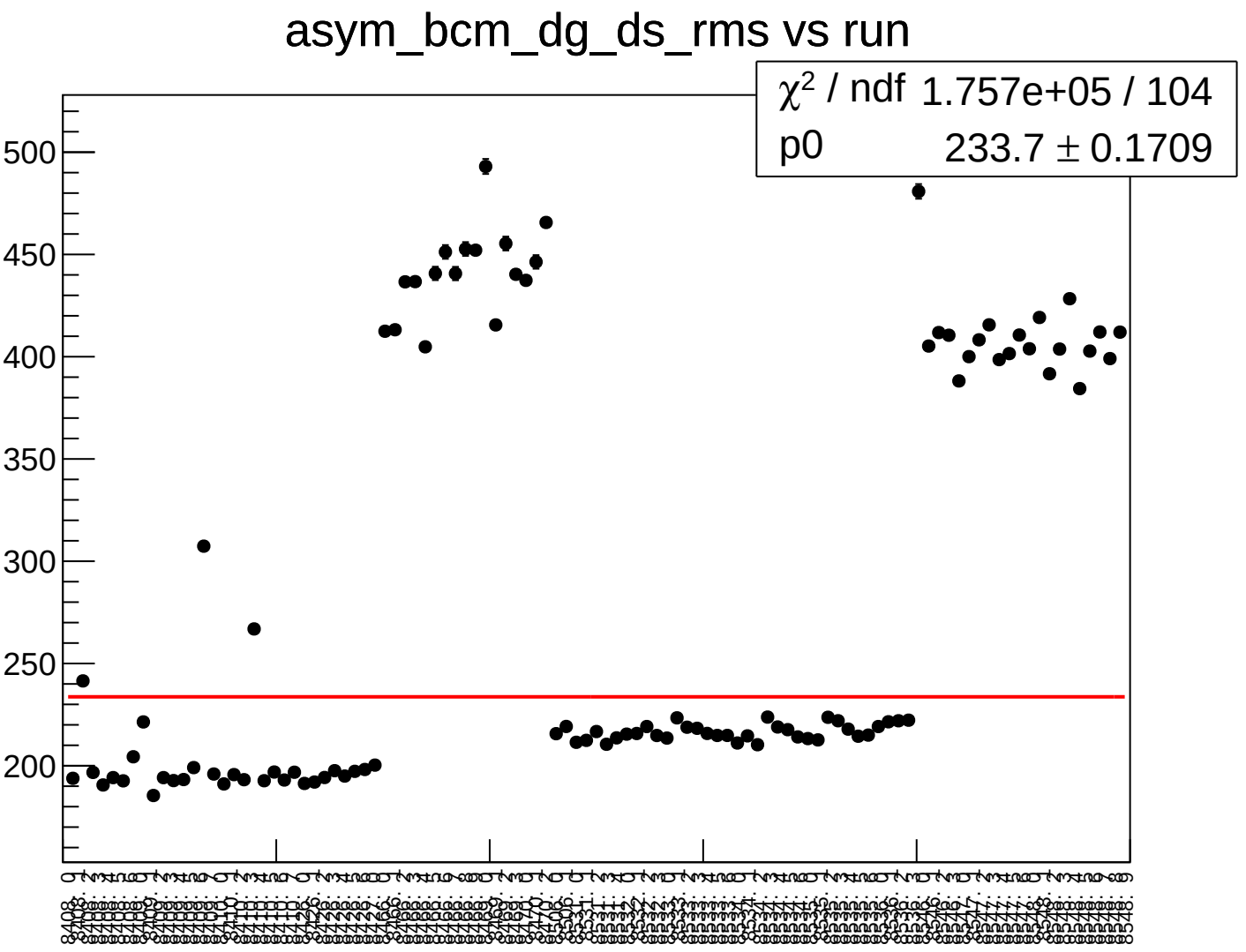

asym_bcm_dg_us_mean vs run
χ² / ndf 35.25 / 104
p0 −641 ± 243.5
10000
5000
0
−5000
−10000
pull
Entries 105
Mean 59.46
Std Dev 73.39
1.5
1
0.5
0
−0.5
−1
−1.5

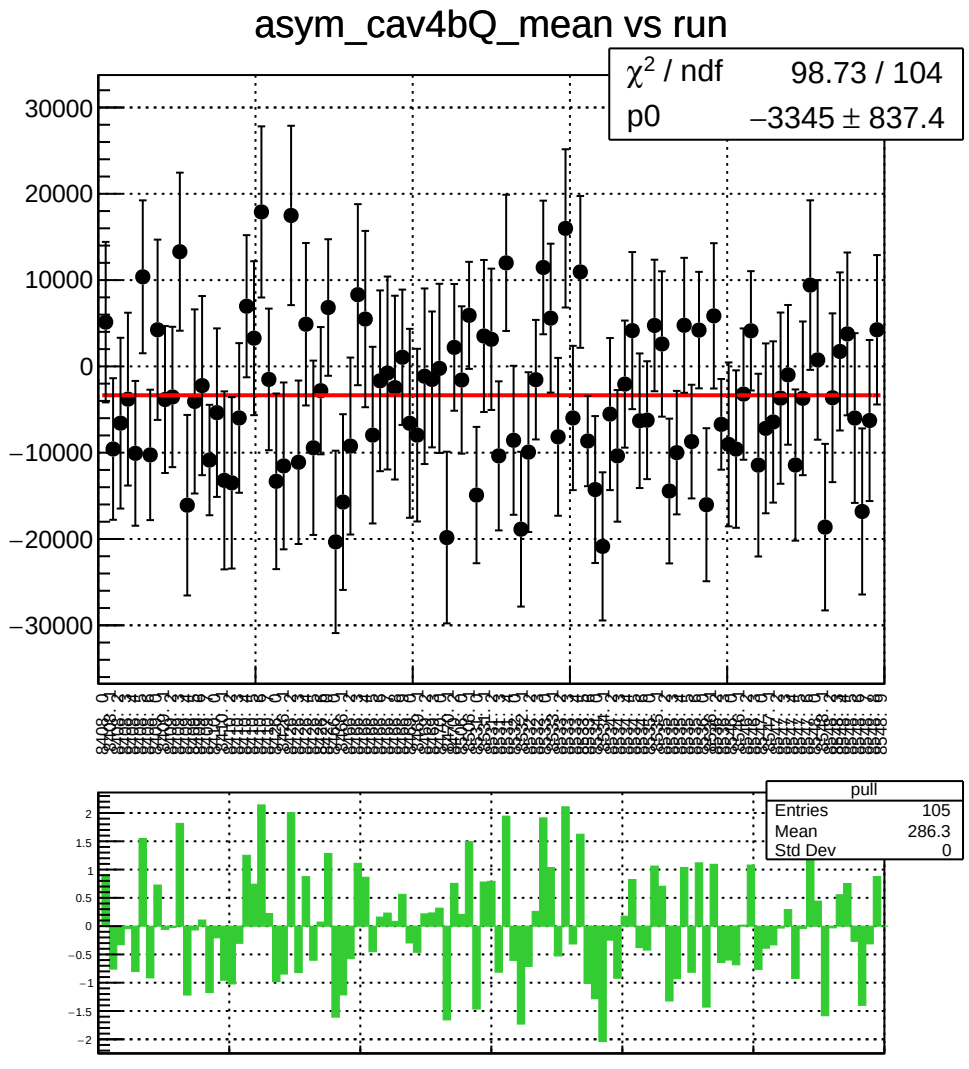

pull1D
Entries 105
Mean −0.003746
Std Dev 0.5794
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

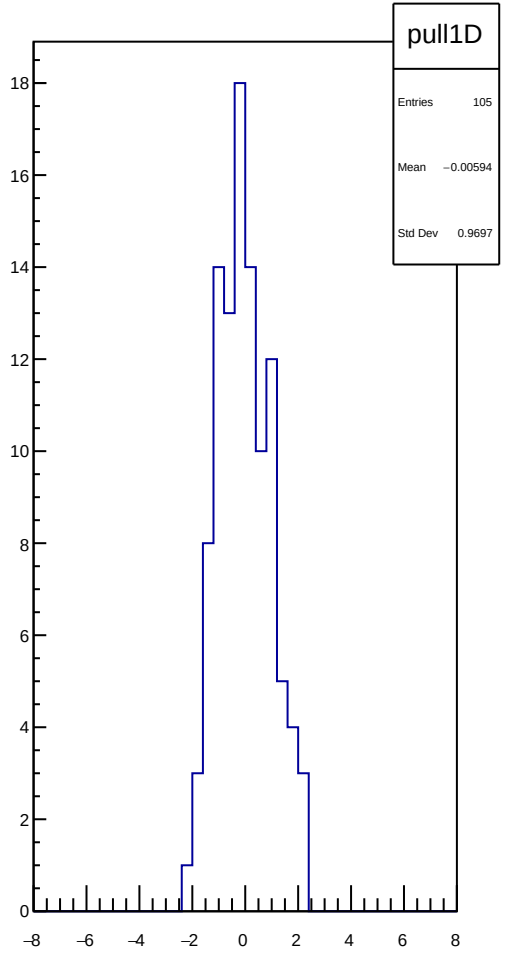

asym_bcm_dg_us_rms vs run
χ^2 / ndf 1.722e+05 / 104
p0 235.7 ± 0.1722
500
450
400
350
300
250
200

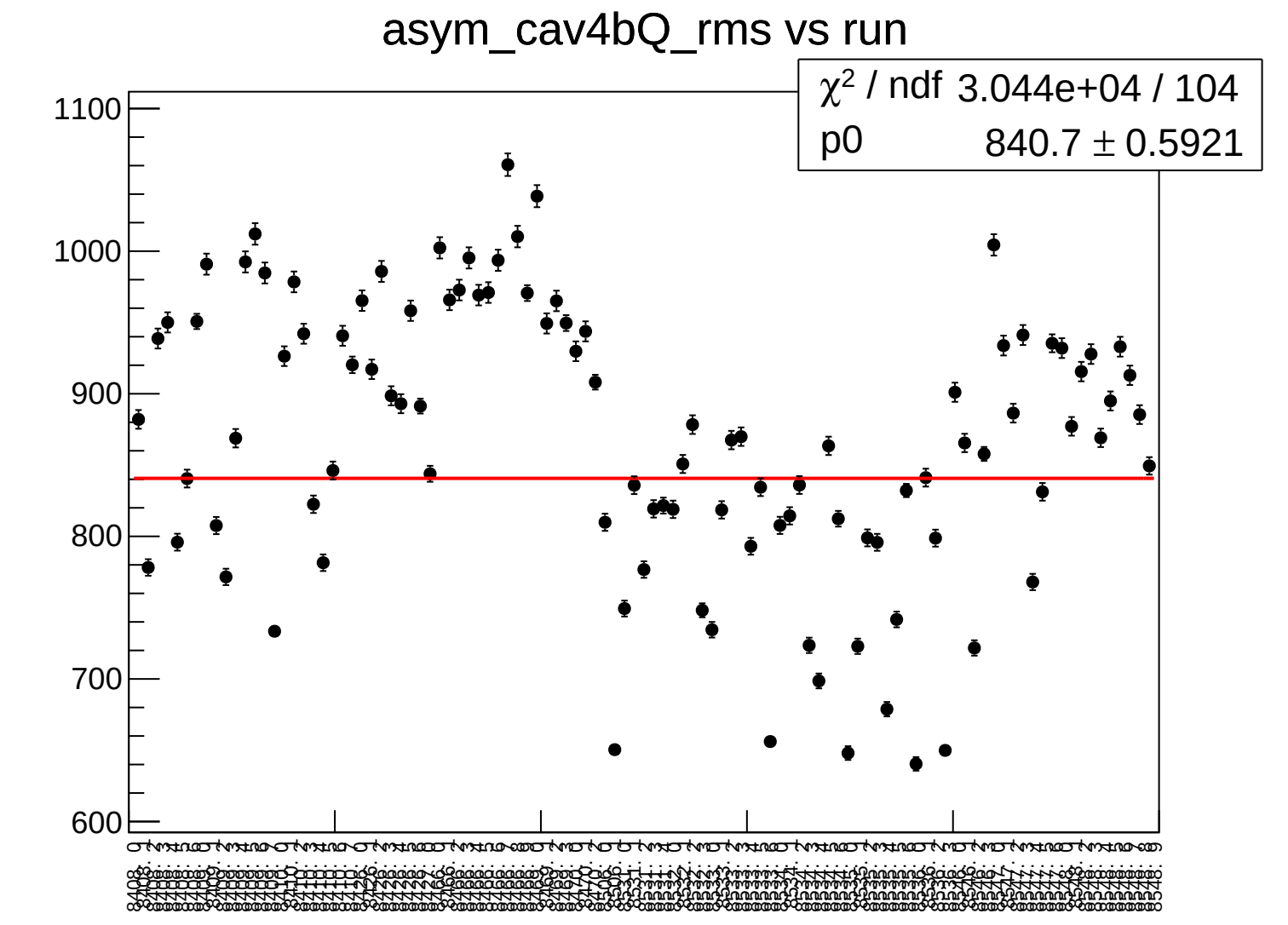

asym_bcm_dg_ds_mean vs run
χ² / ndf 33.97 / 104
p0 −661.8 ± 241.7
10000
5000
0
−5000
−10000
pull
Entries 105
Mean −109.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

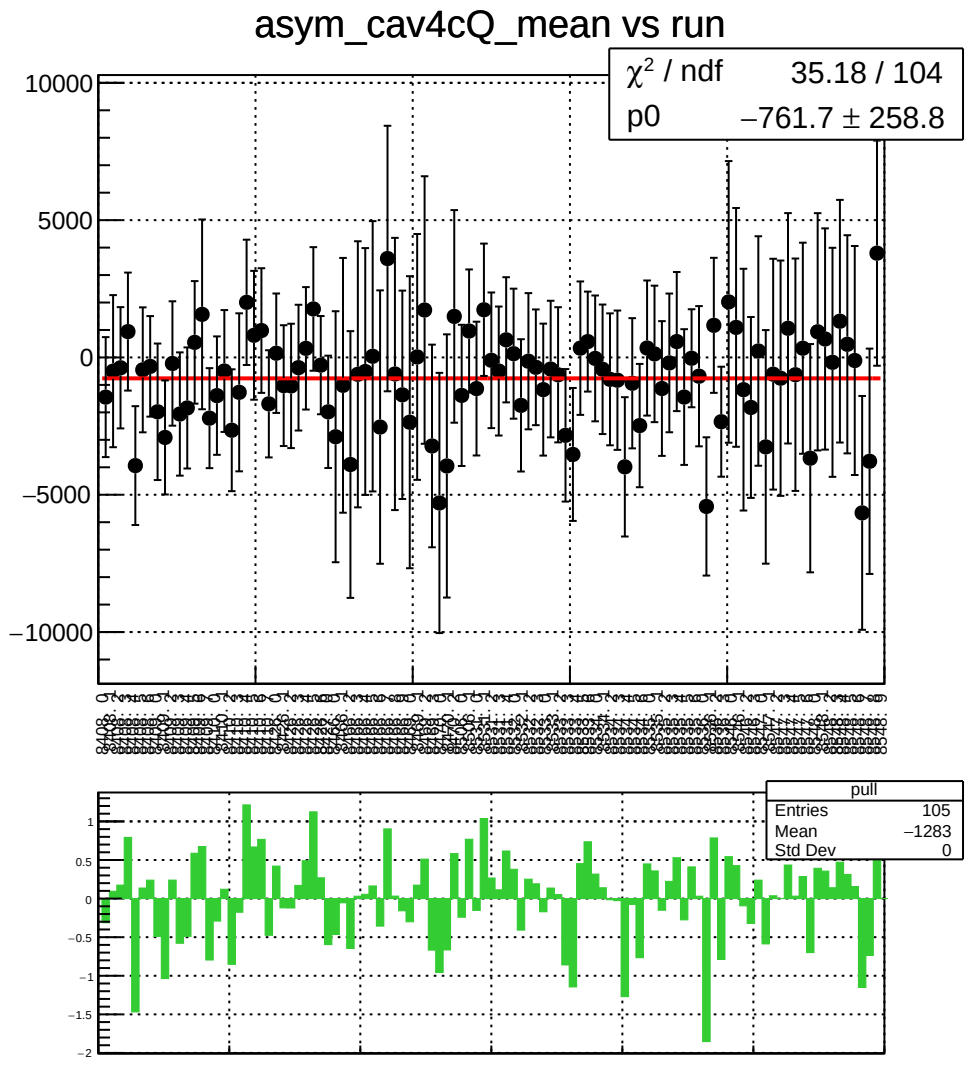

pull1D
Entries 105
Mean −0.002961
Std Dev 0.5688
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

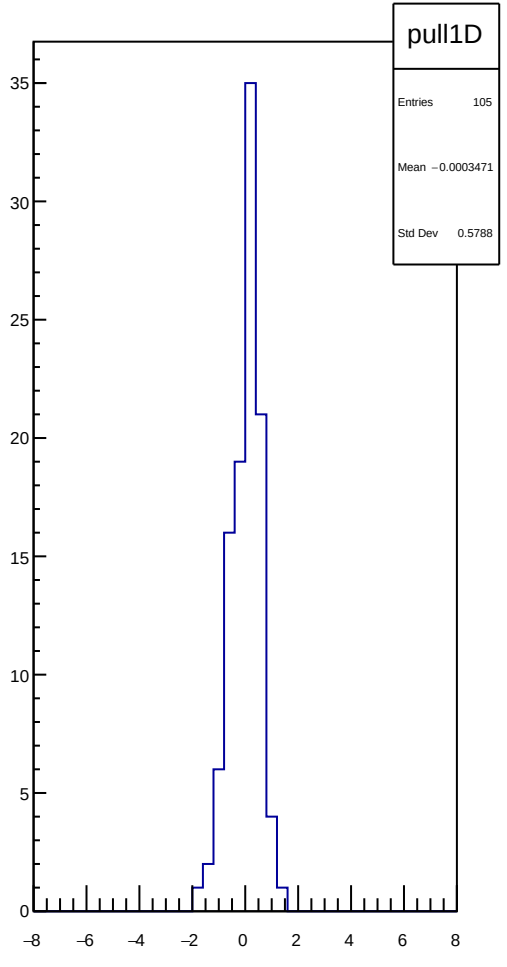

asym_bcm_dg_ds_rms vs run
χ² / ndf 1.757e+05 / 104
p0 233.7 ± 0.1709
500
450
400
350
300
250
200

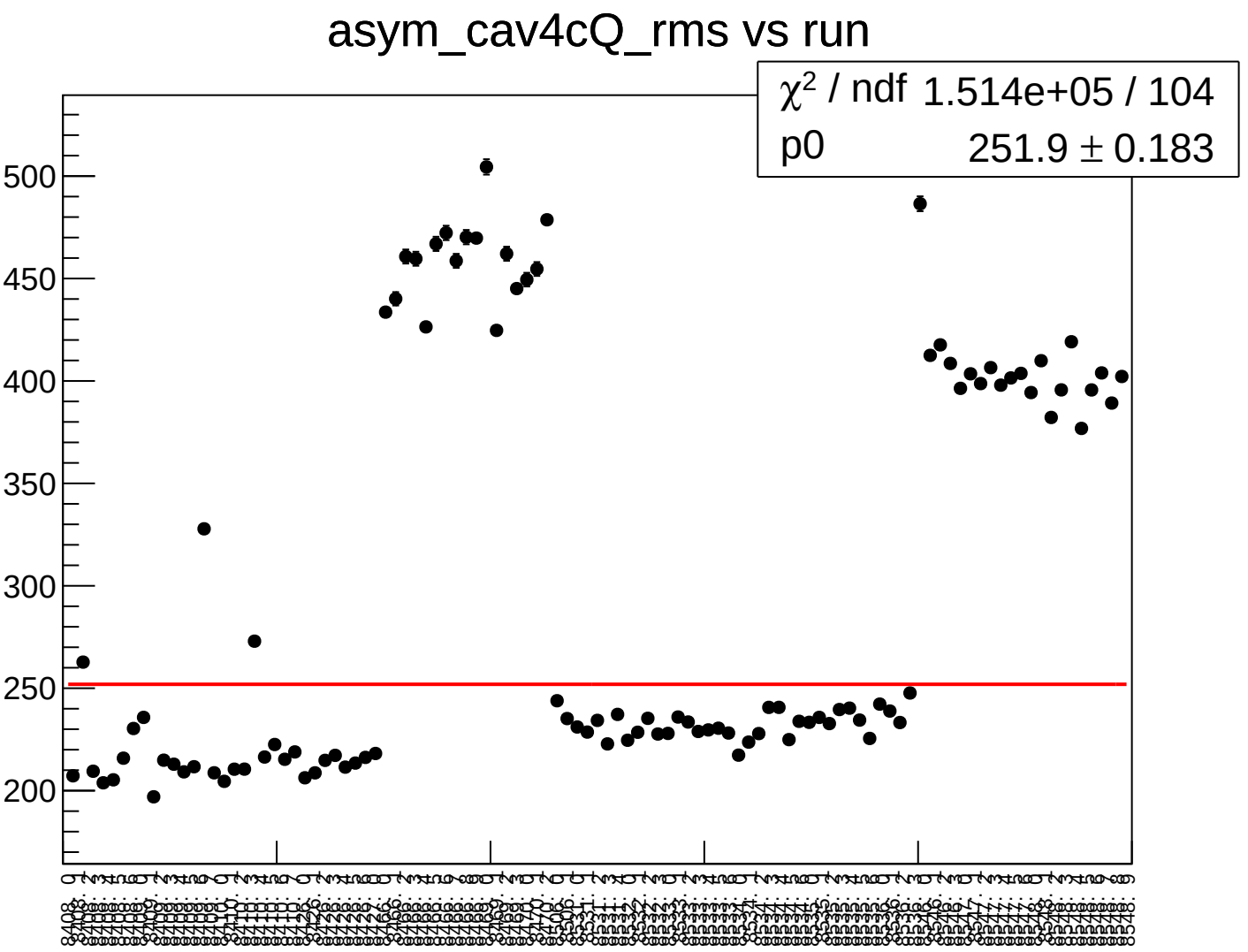

asym_cav4bQ_mean vs run
χ² / ndf 98.73 / 104
p0 −3345 ± 837.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 105
Mean 286.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

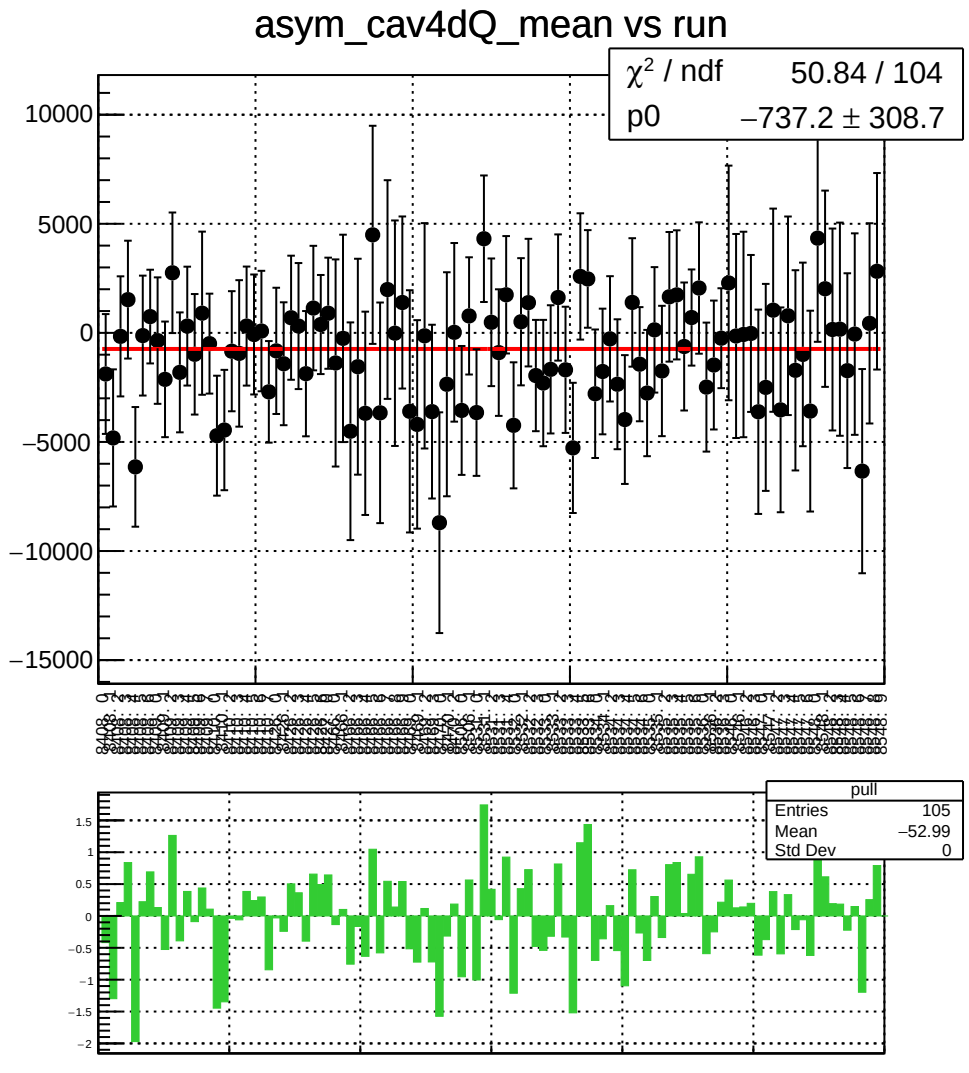

pull1D
Entries 105
Mean −0.00594
Std Dev 0.9697
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

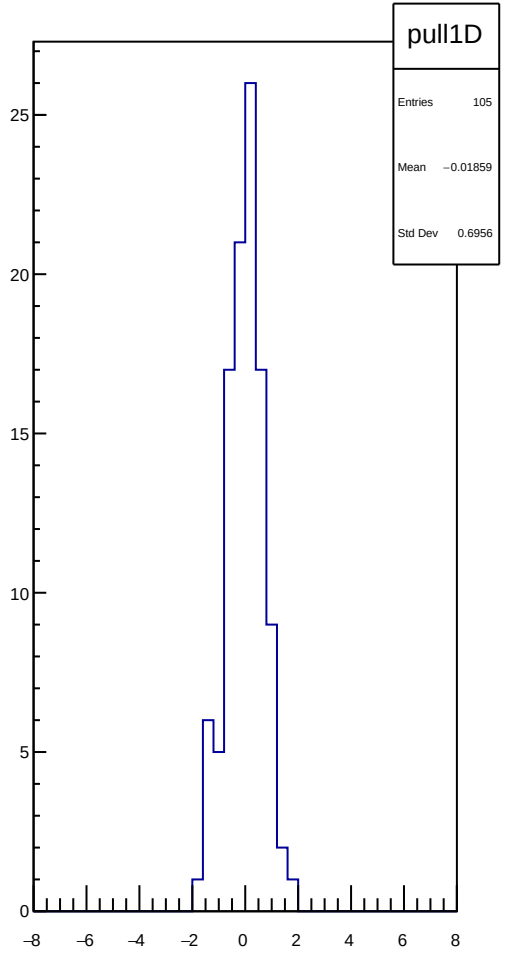

asym_cav4bQ_rms vs run
χ^2 / ndf 3.044e+04 / 104
p0 840.7 ± 0.5921
1100
1000
900
800
700
600

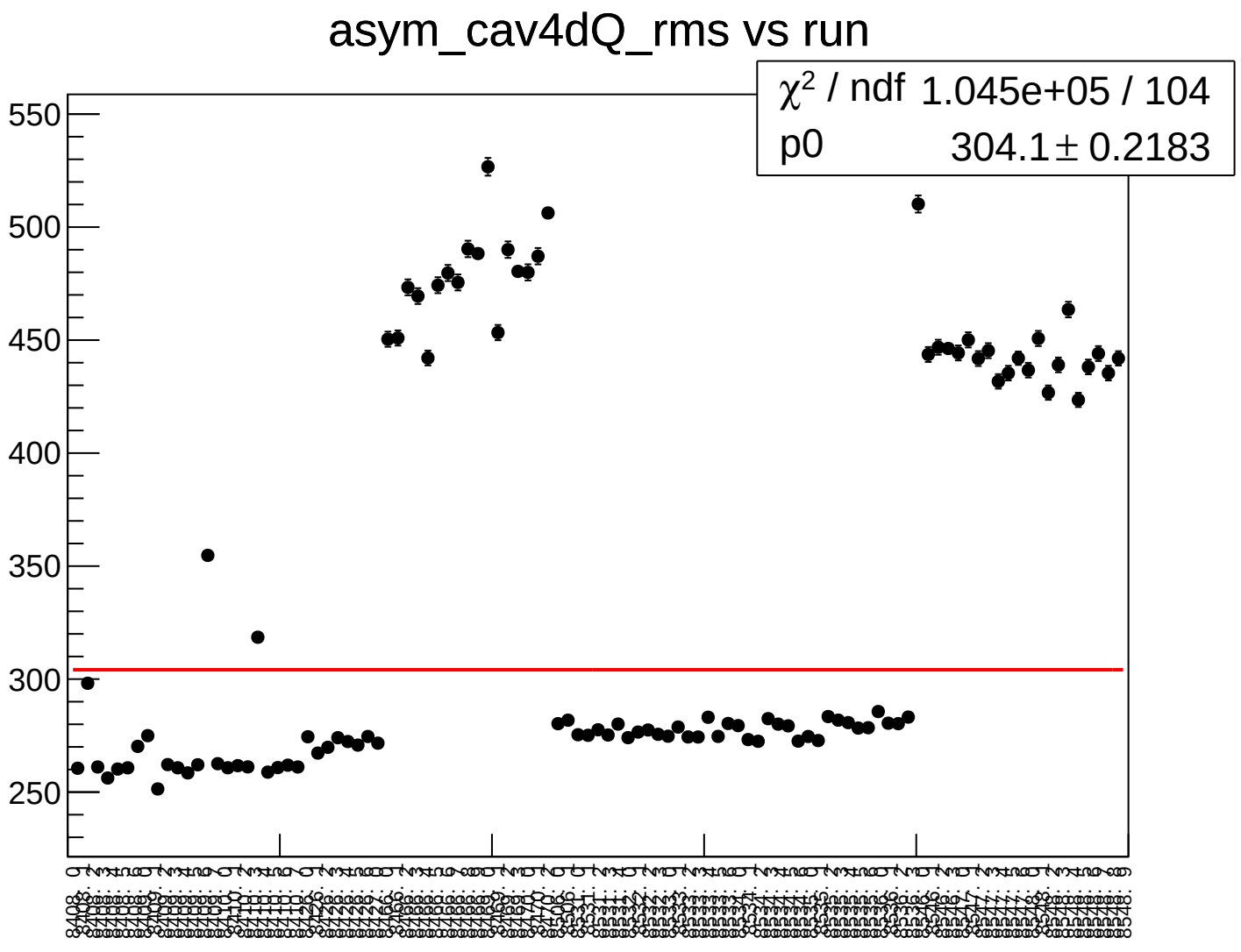

asym_cav4cQ_mean vs run
χ² / ndf 35.18 / 104
p0 −761.7 ± 258.8
10000
5000
0
−5000
−10000
pull
Entries 105
Mean −1283
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2

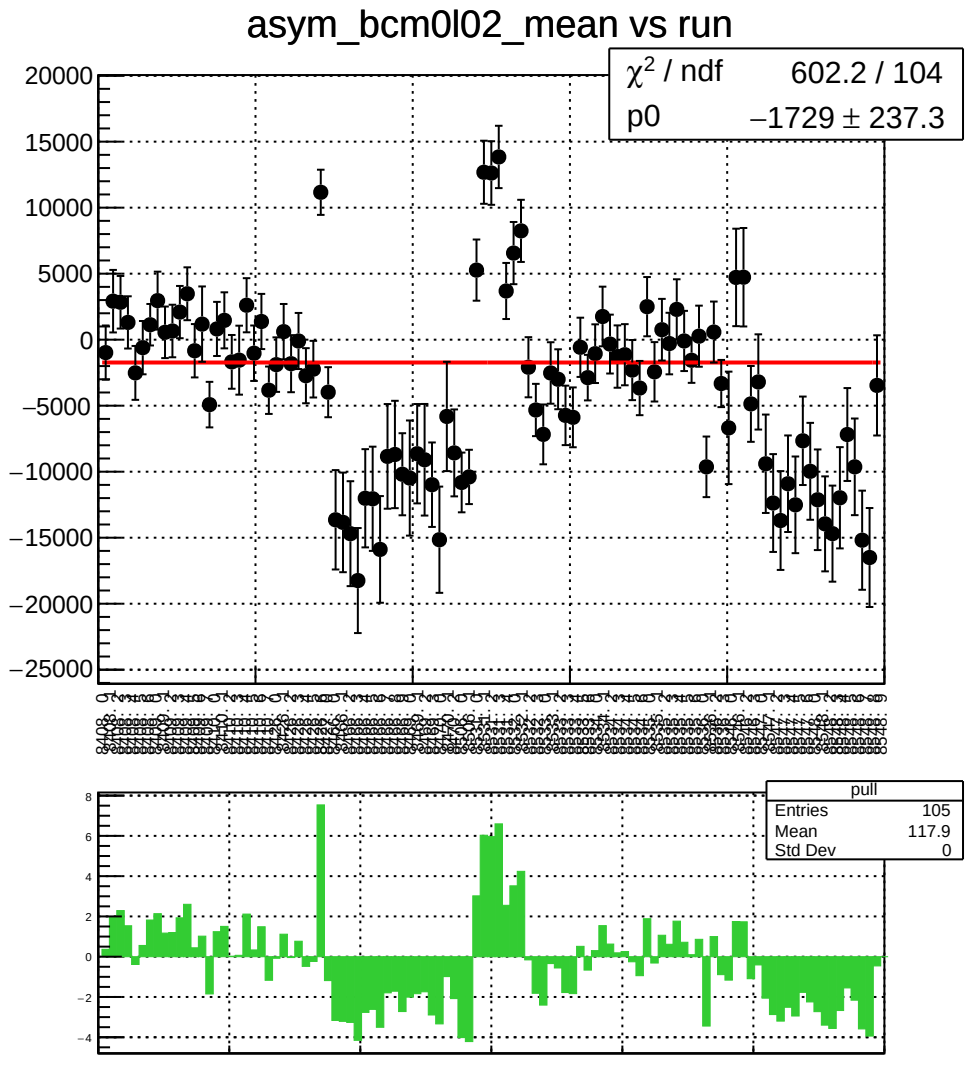

pull1D
Entries 105
Mean −0.0003471
Std Dev 0.5788
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

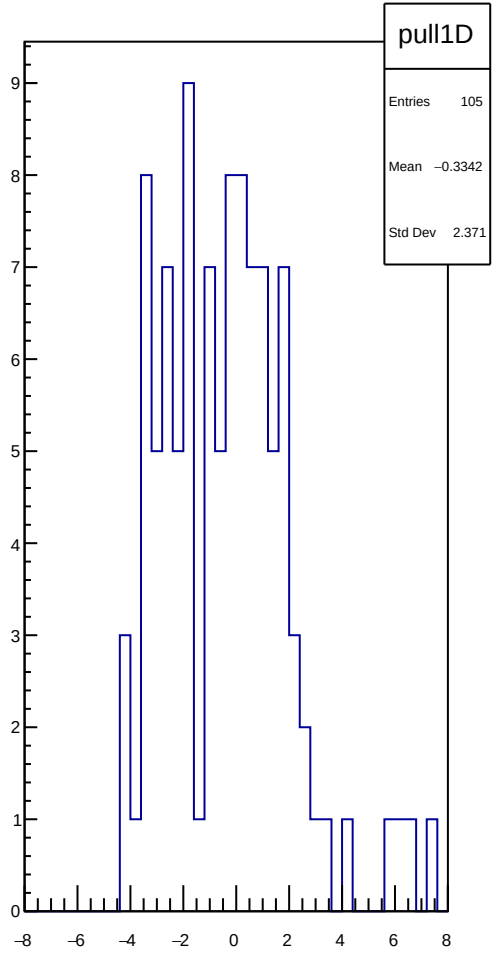

asym_cav4cQ_rms vs run
χ^2 / ndf 1.514e+05 / 104
p0 251.9 ± 0.183
500
450
400
350
300
250
200

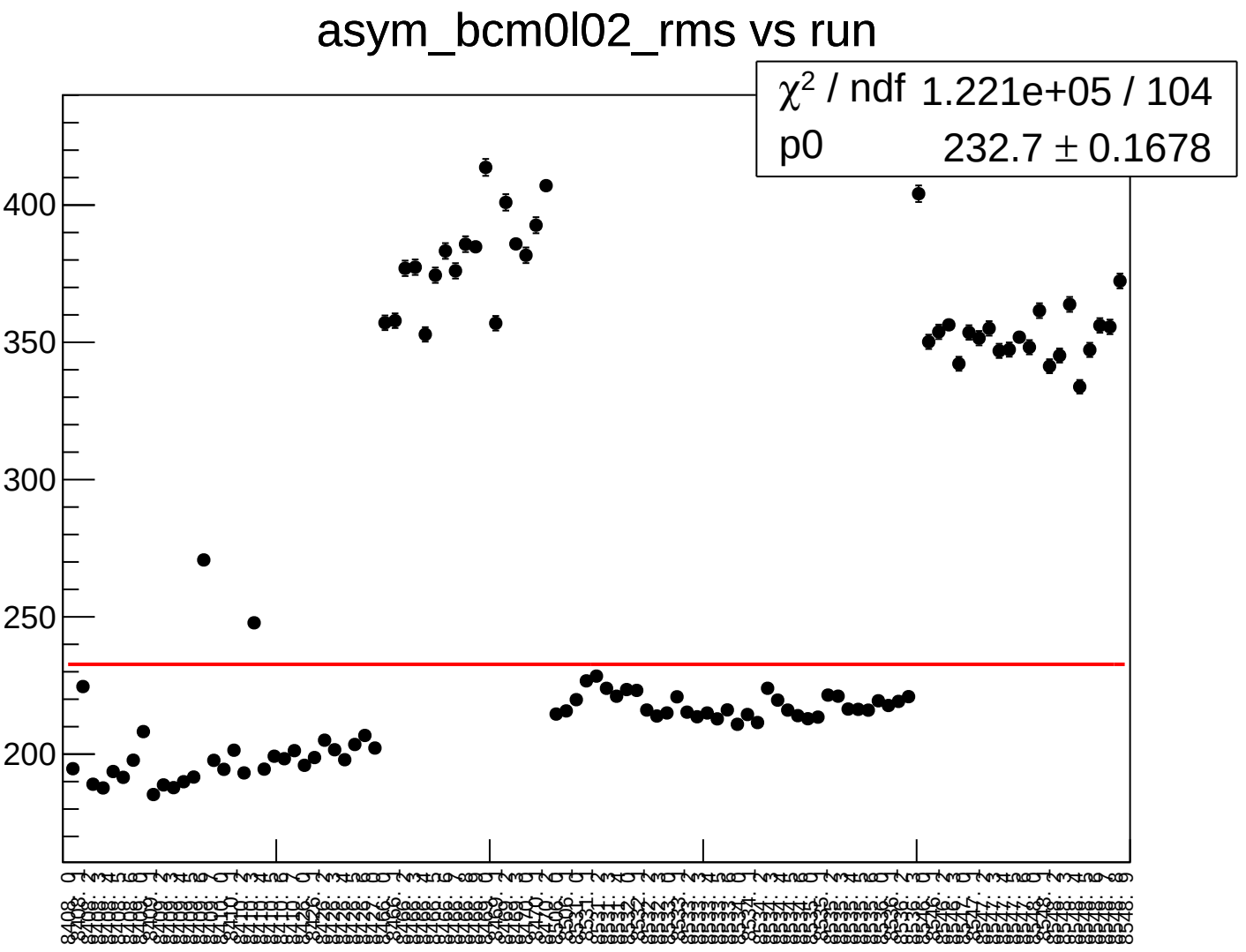

asym_cav4dQ_mean vs run
χ² / ndf 50.84 / 104
p0 −737.2 ± 308.7
10000
5000
0
−5000
−10000
−15000
pull
Entries 105
Mean −52.99
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

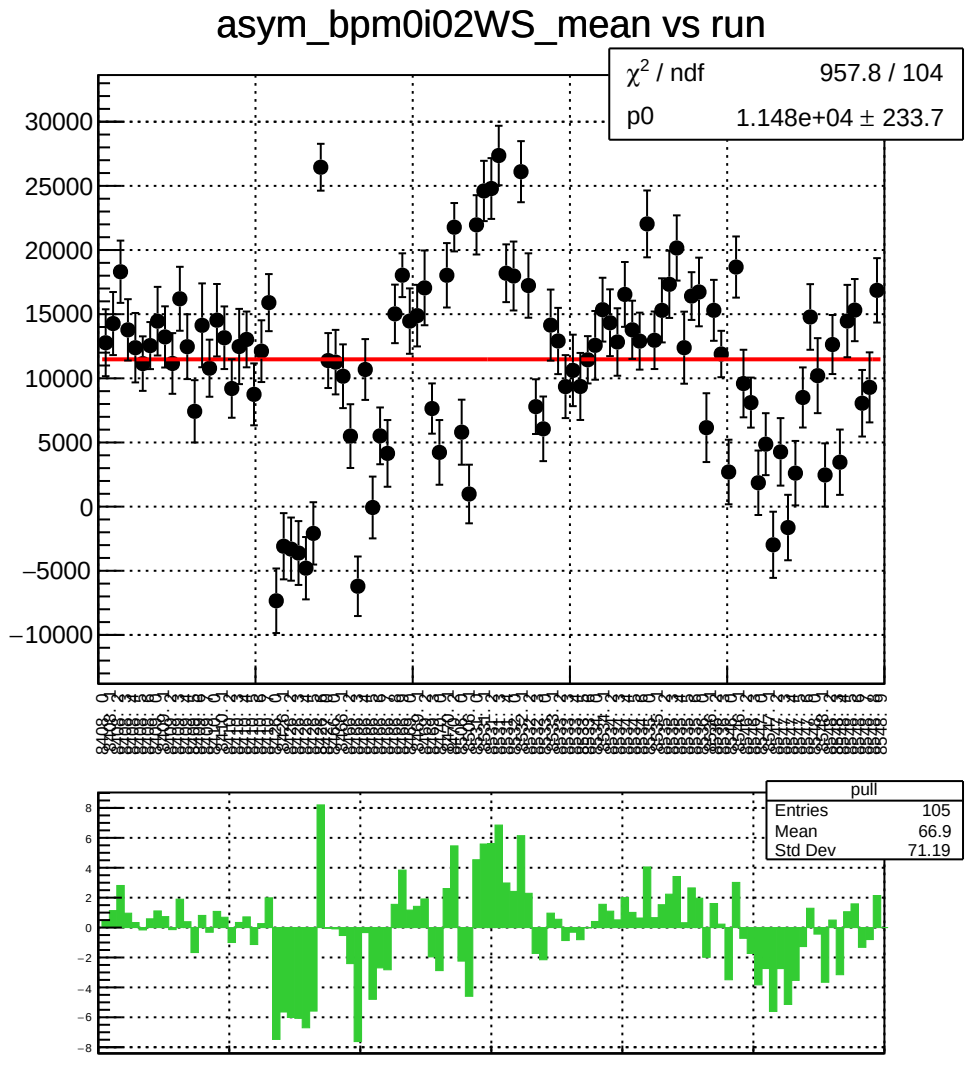

pull1D
Entries 105
Mean −0.01859
Std Dev 0.6956
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

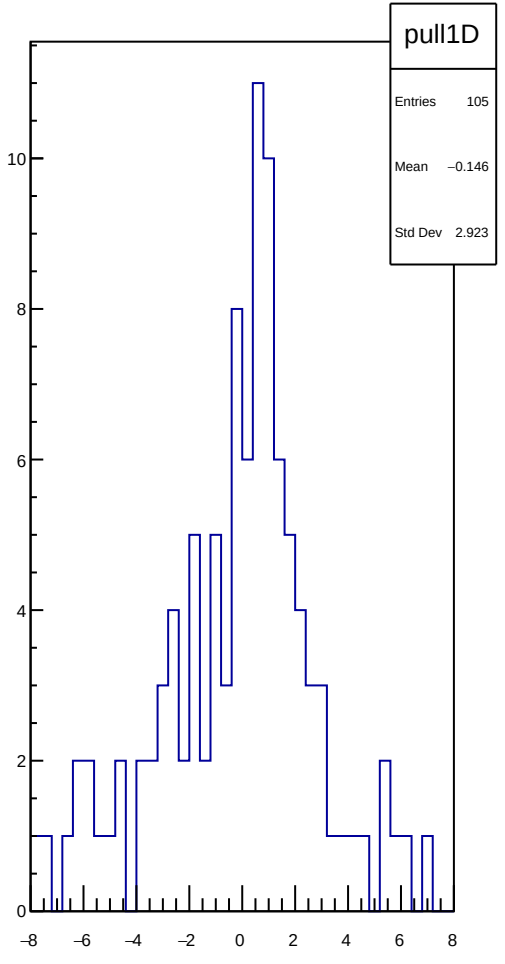

asym_cav4dQ_rms vs run
χ^2 / ndf 1.045e+05 / 104
p0 304.1 ± 0.2183
550
500
450
400
350
300
250

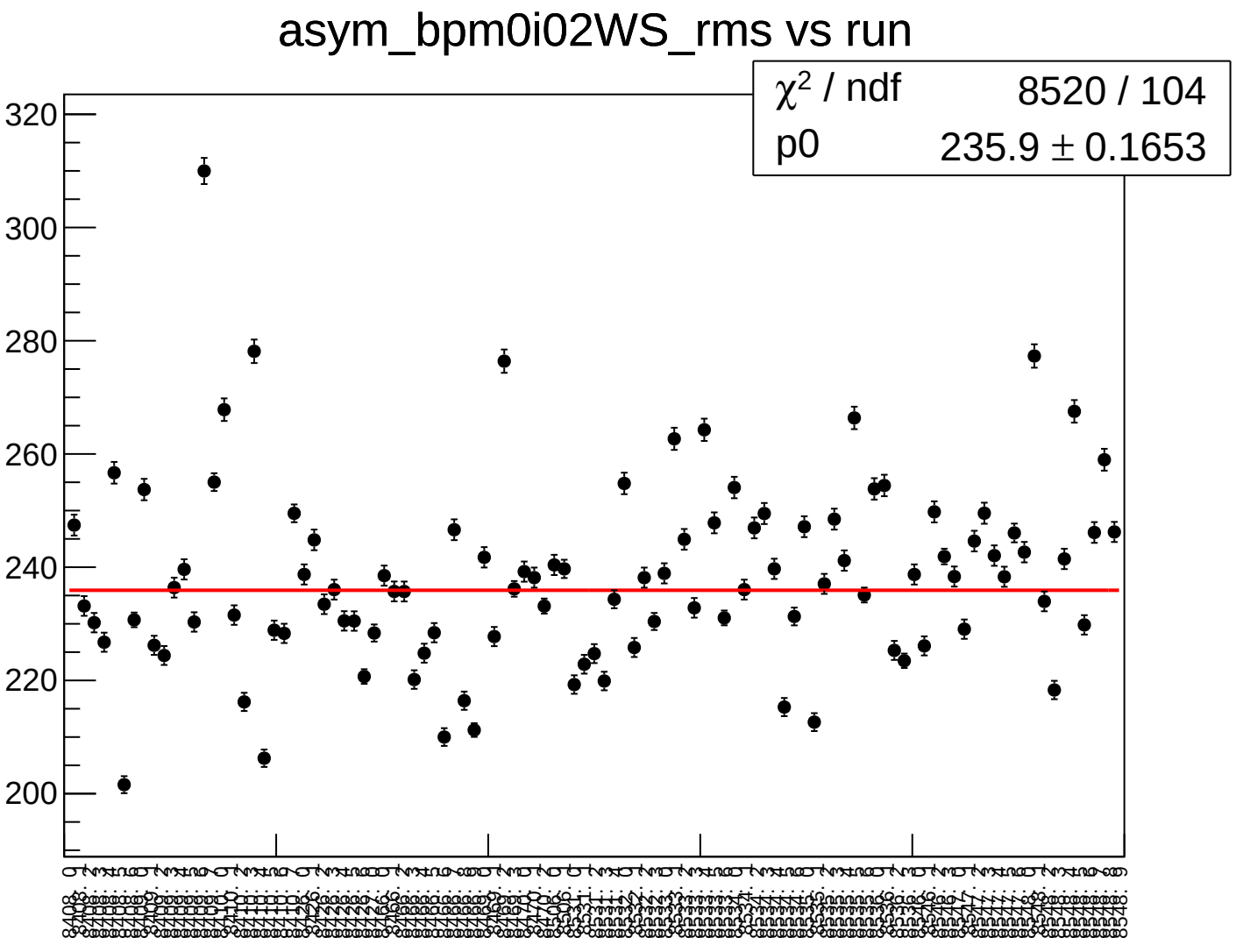

asym_bcm0l02_mean vs run
χ² / ndf 602.2 / 104
p0 −1729 ± 237.3
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 105
Mean 117.9
Std Dev 0
8
6
4
2
0
−2
−4

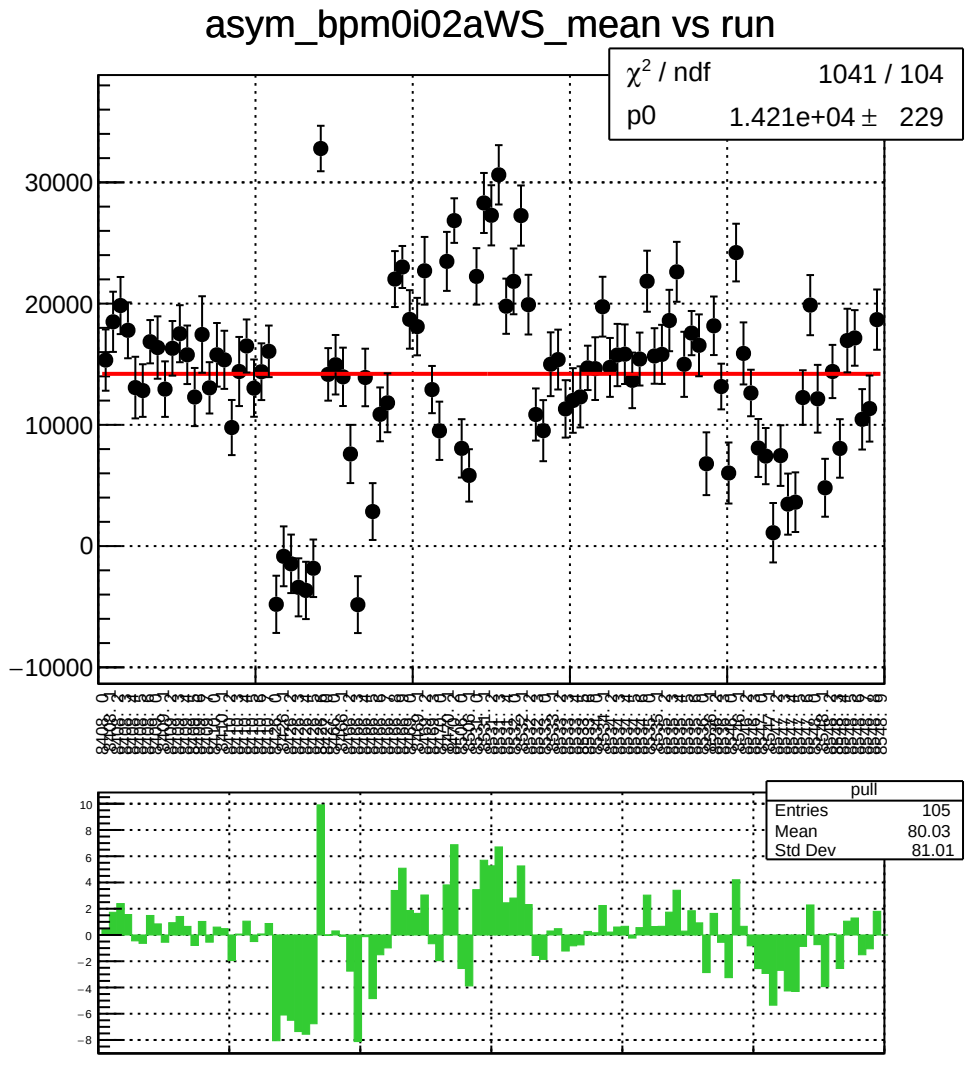

pull1D
Entries 105
Mean −0.3342
Std Dev 2.371
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

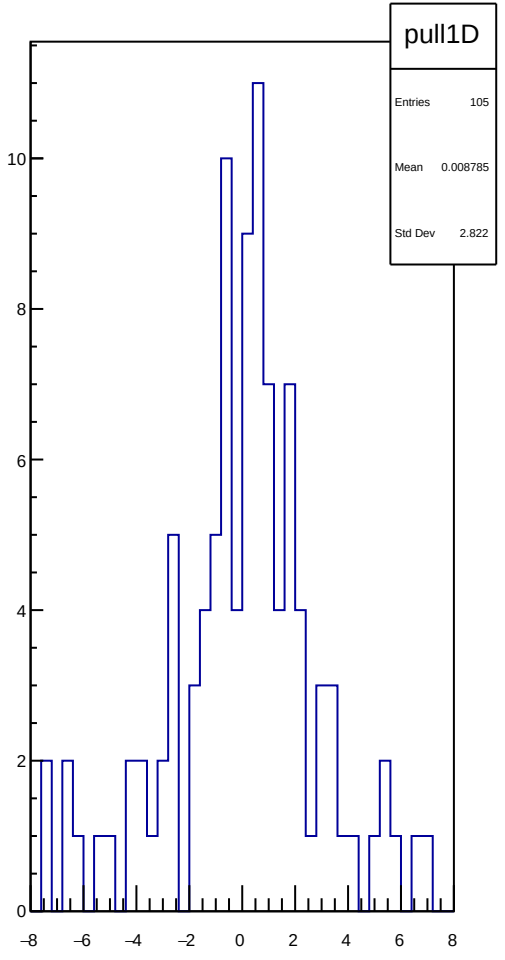

asym_bcm0l02_rms vs run
χ^2 / ndf 1.221e+05 / 104
p0 232.7 ± 0.1678
400
350
300
250
200

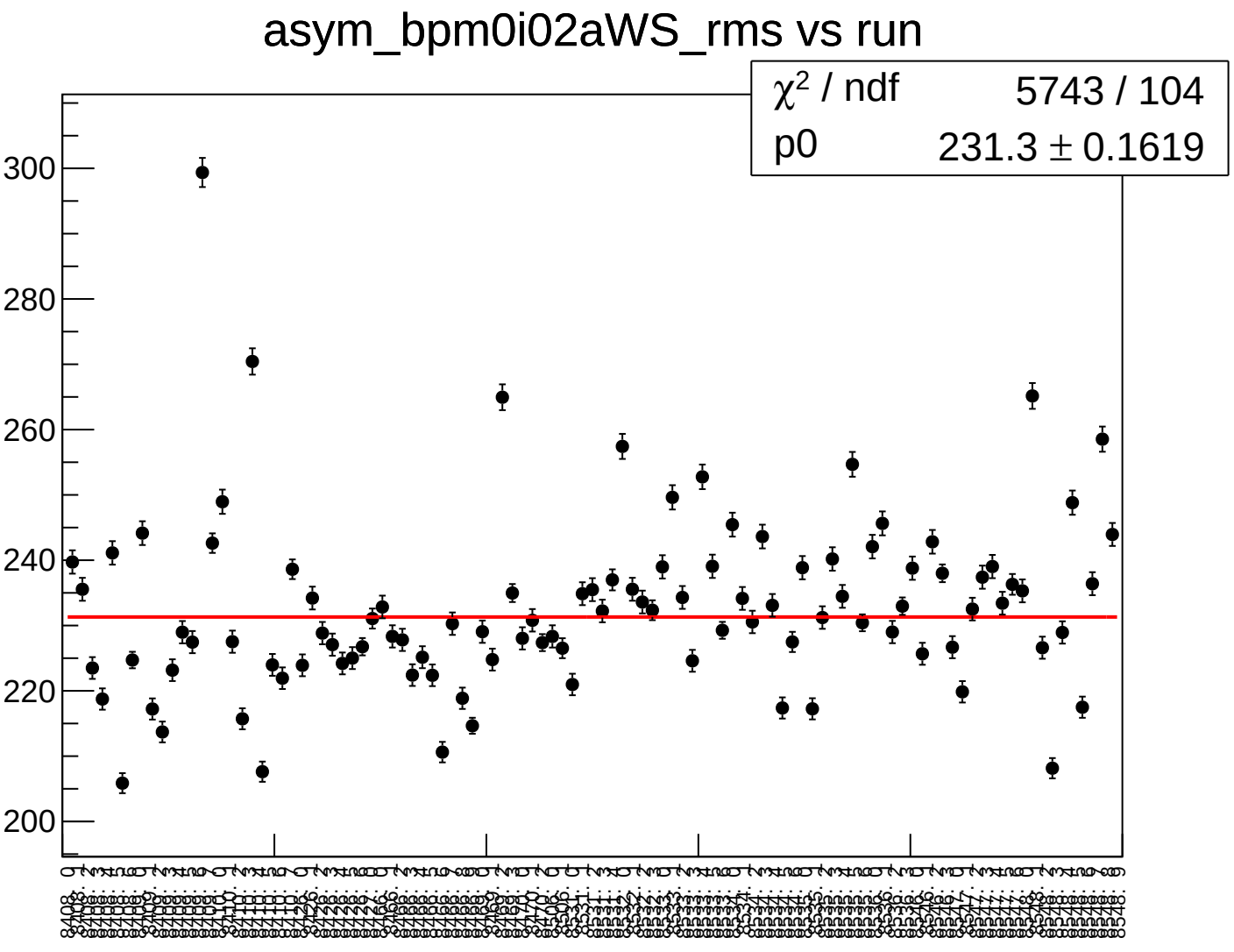

asym_bpm0i02WS_mean vs run
χ² / ndf 957.8 / 104
p0 1.148e+04 ± 233.7
30000
25000
20000
15000
10000
5000
0
−5000
−10000
pull
Entries 105
Mean 66.9
Std Dev 71.19
8
6
4
2
0
−2
−4
−6
−8

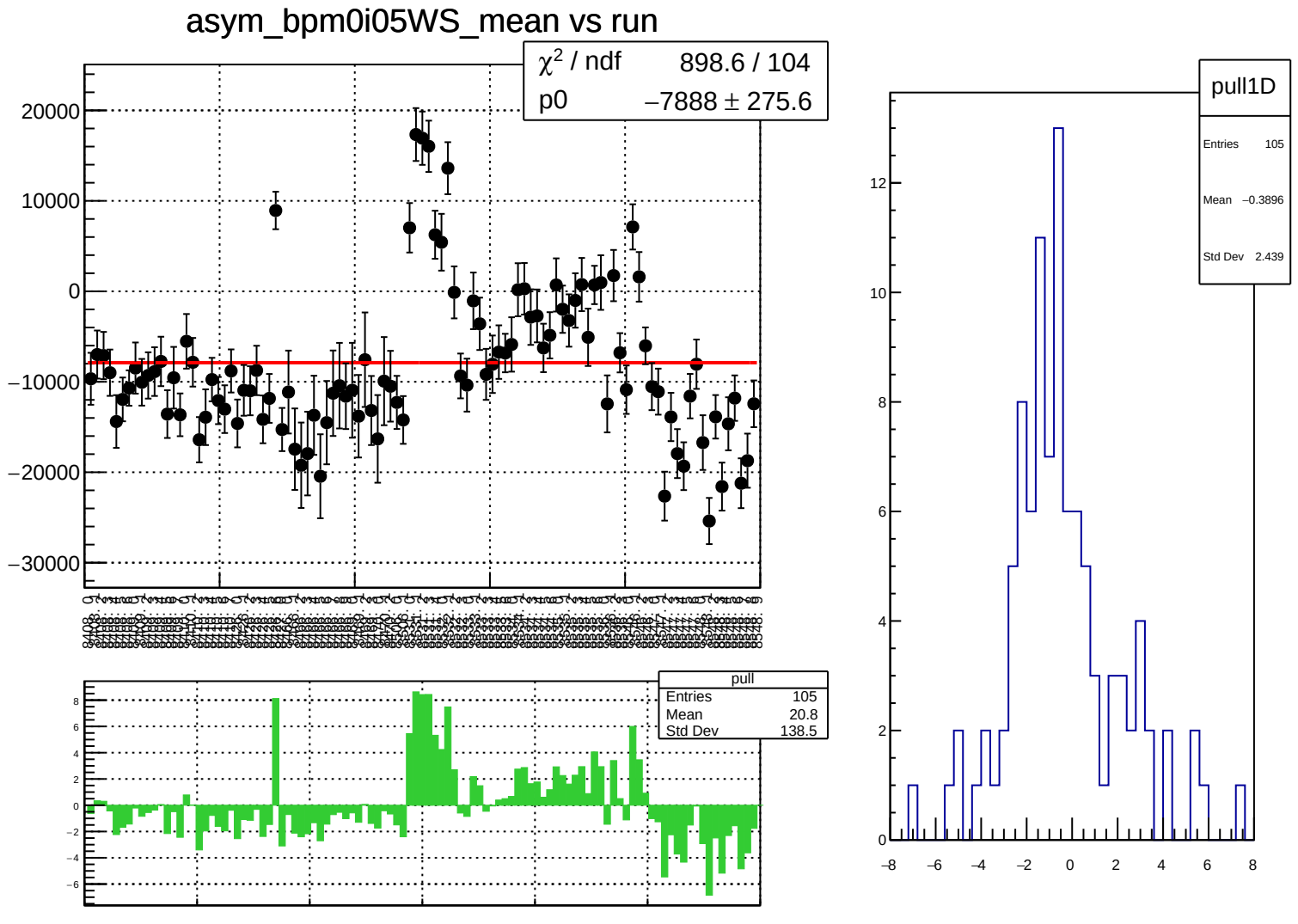

pull1D
Entries 105
Mean −0.146
Std Dev 2.923
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

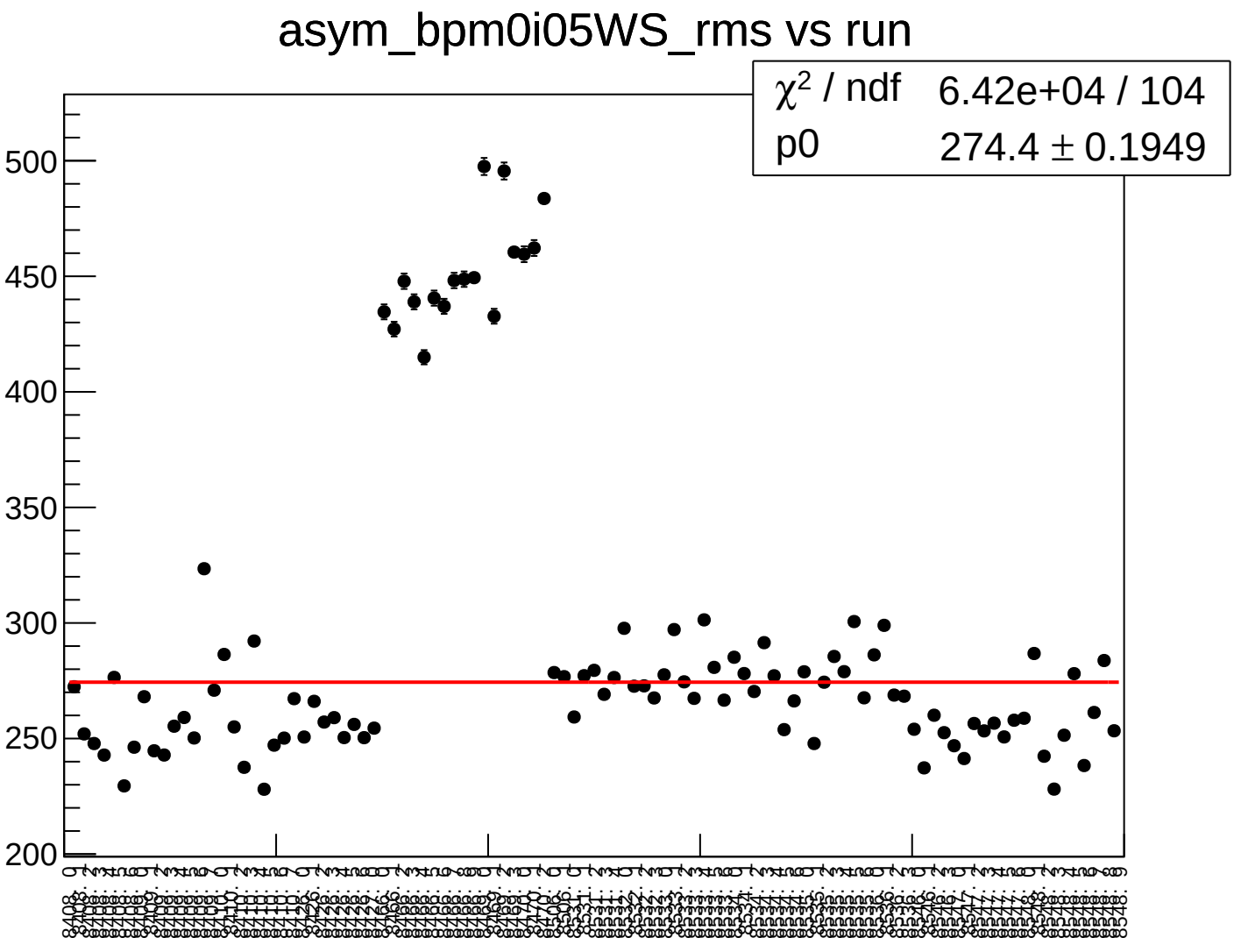

asym_bpm0i02WS_rms vs run
χ^2 / ndf 8520 / 104
p0 235.9 ± 0.1653
320
300
280
260
240
220
200

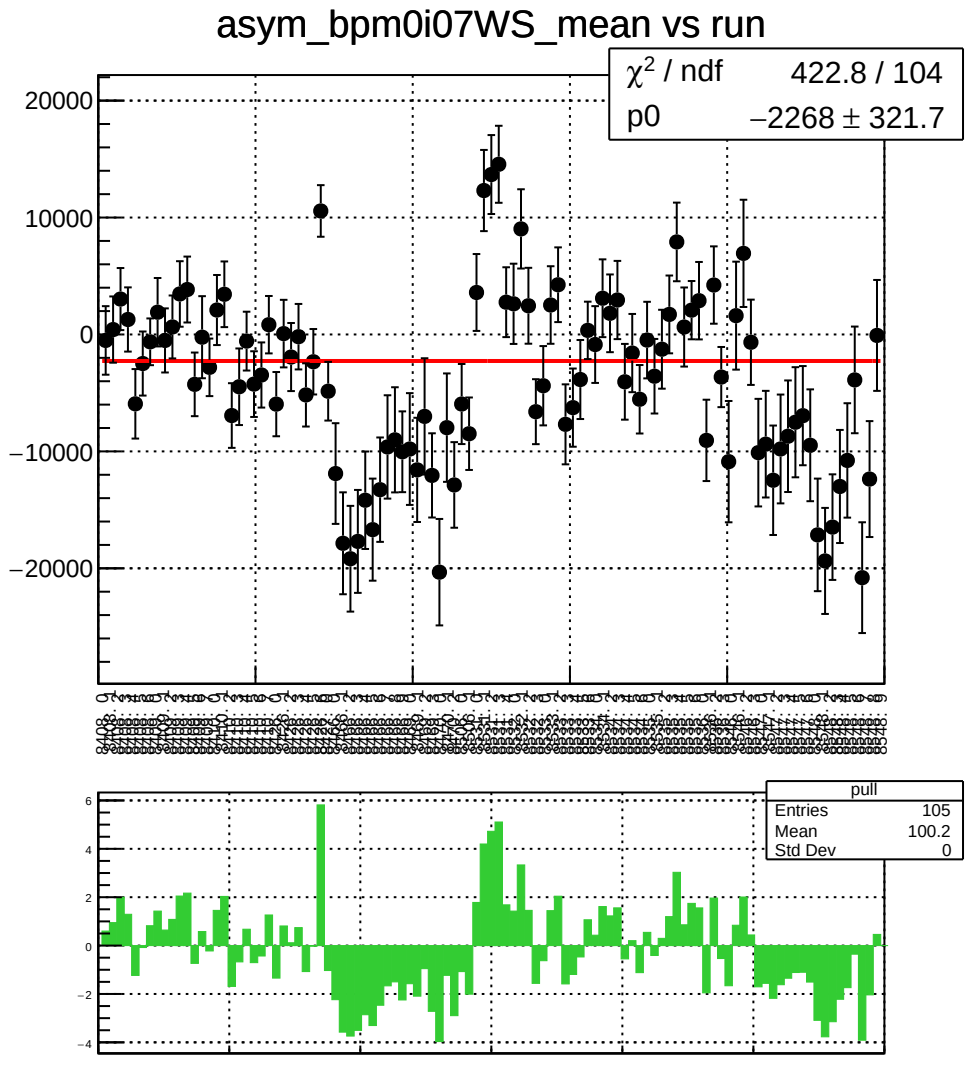

asym_bpm0i02aWS_mean vs run
χ² / ndf 1041 / 104
p0 1.421e+04 ± 229
30000
20000
10000
0
−10000
pull
Entries 105
Mean 80.03
Std Dev 81.01
10
8
6
4
2
0
−2
−4
−6
−8

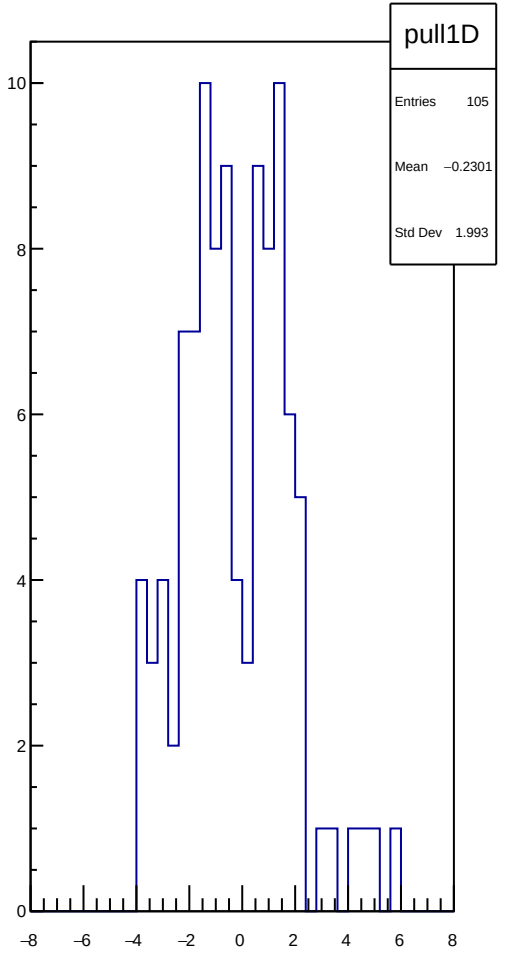

pull1D
Entries 105
Mean 0.008785
Std Dev 2.822
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

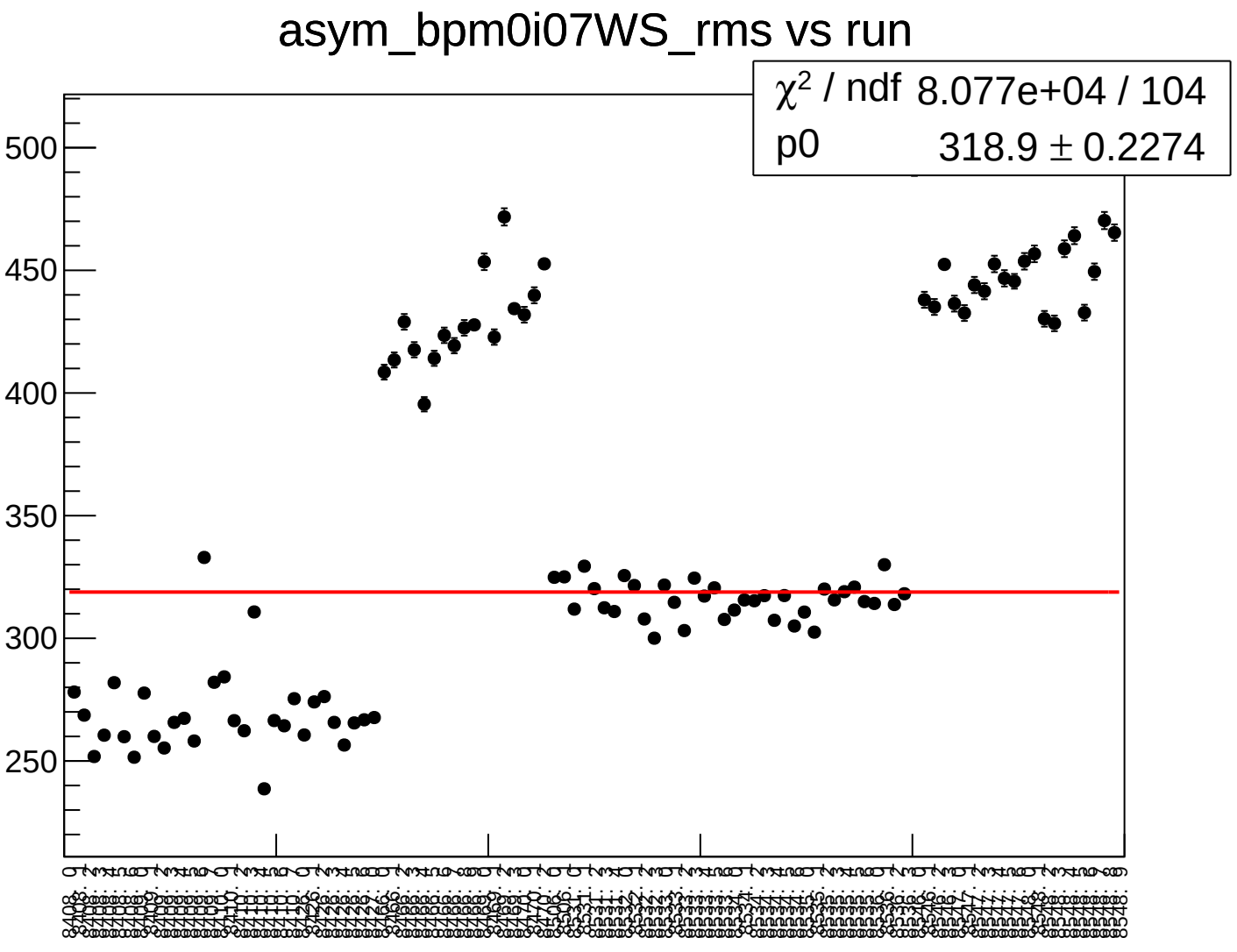

asym_bpm0i02aWS_rms vs run
χ² / ndf 5743 / 104
p0 231.3 ± 0.1619
300
280
260
240
220
200

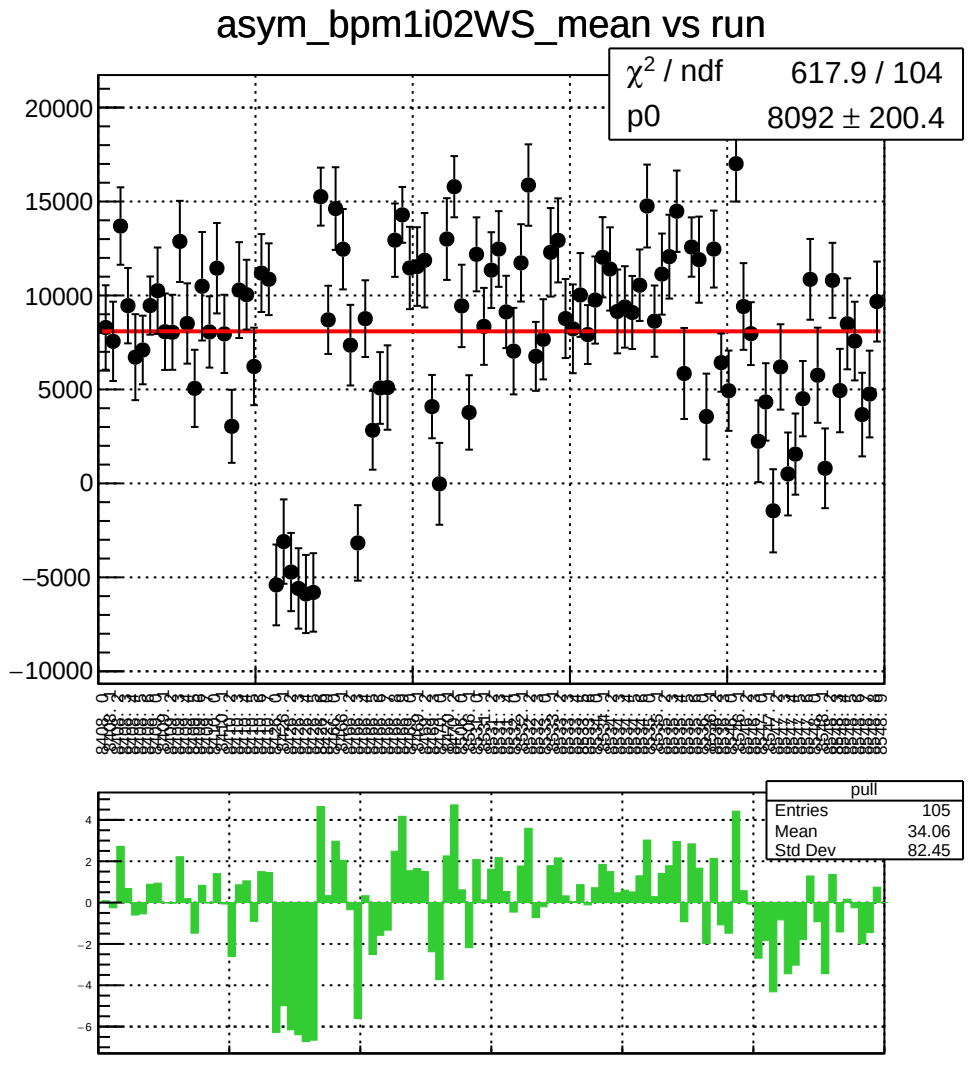

asym_bpm0i05WS_mean vs run
χ² / ndf 898.6 / 104
p0 −7888 ± 275.6
20000
10000
0
−10000
−20000
−30000
pull
Entries 105
Mean 20.8
Std Dev 138.5
8
6
4
2
0
−2
−4
−6
pull1D
Entries 105
Mean −0.3896
Std Dev 2.439
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

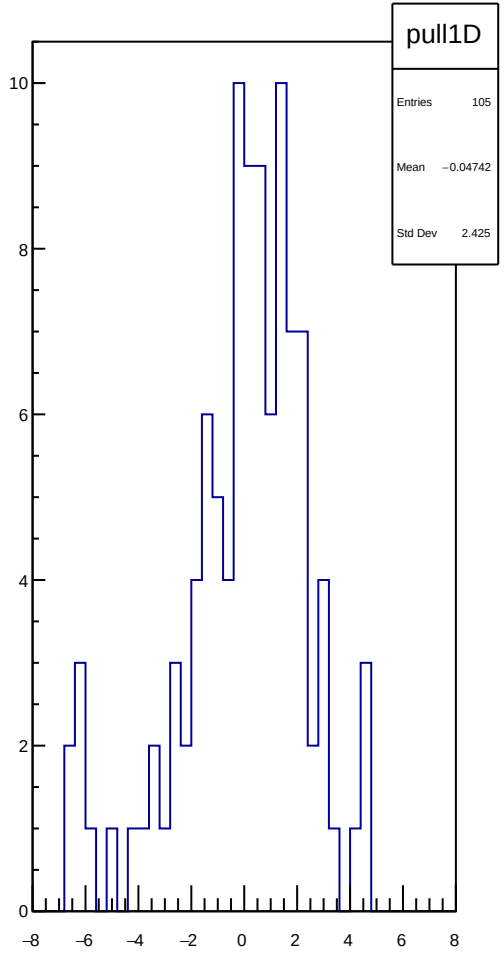

asym_bpm0i05WS_rms vs run
χ^2 / ndf 6.42e+04 / 104
p0 274.4 ± 0.1949
500
450
400
350
300
250
200

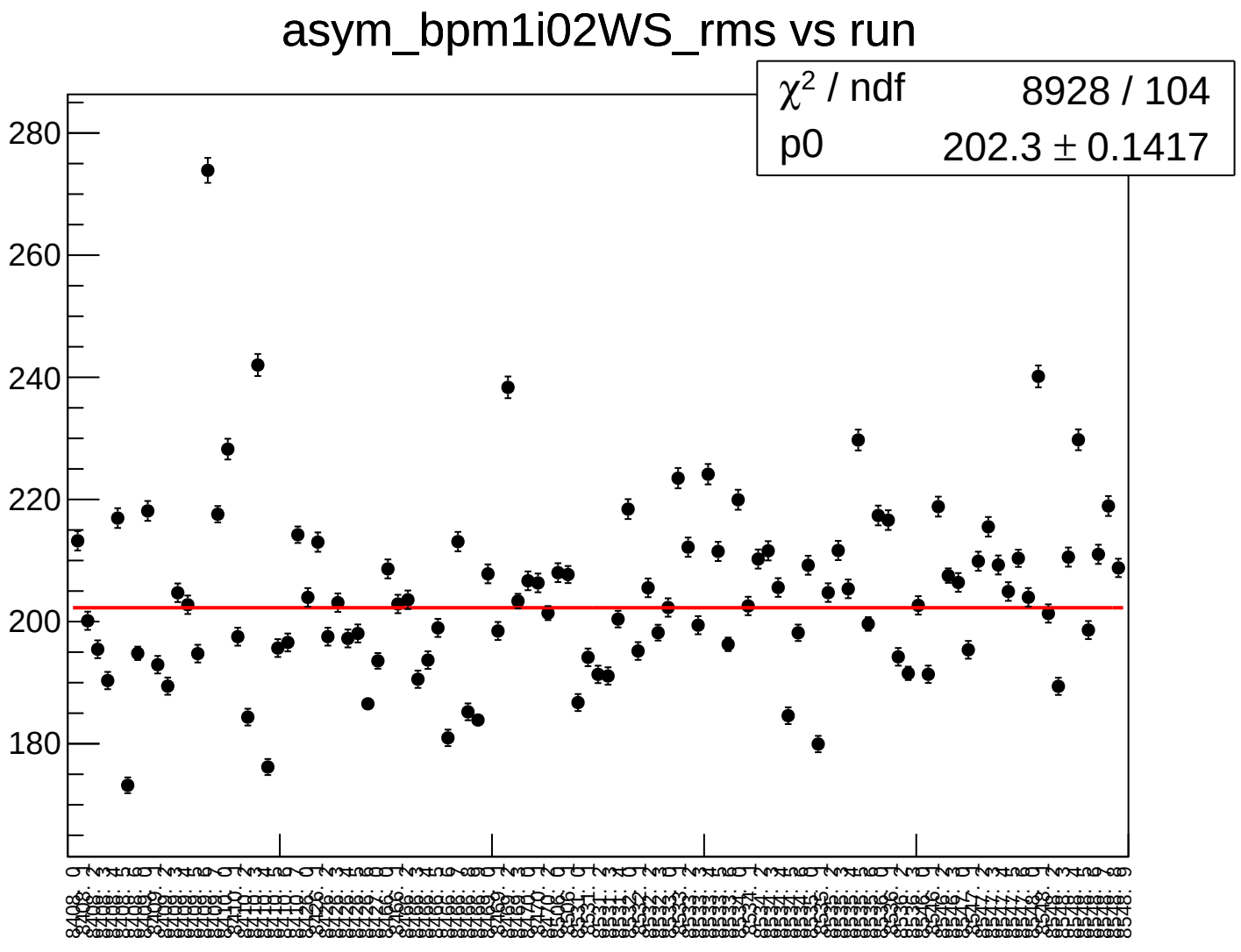

asym_bpm0i07WS_mean vs run
χ² / ndf 422.8 / 104
p0 −2268 ± 321.7
20000
10000
0
−10000
−20000
pull
Entries 105
Mean 100.2
Std Dev 0
6
4
2
0
−2
−4

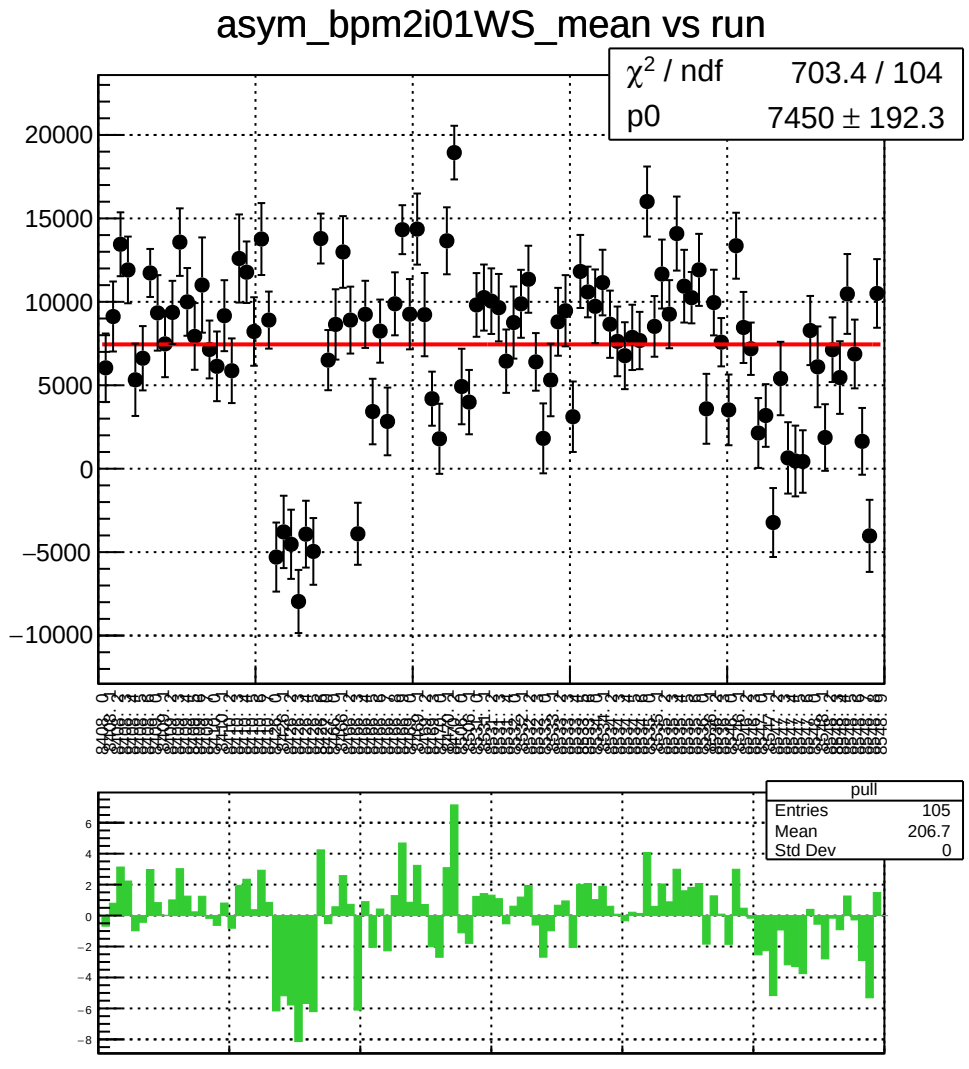

pull1D
Entries 105
Mean −0.2301
Std Dev 1.993
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

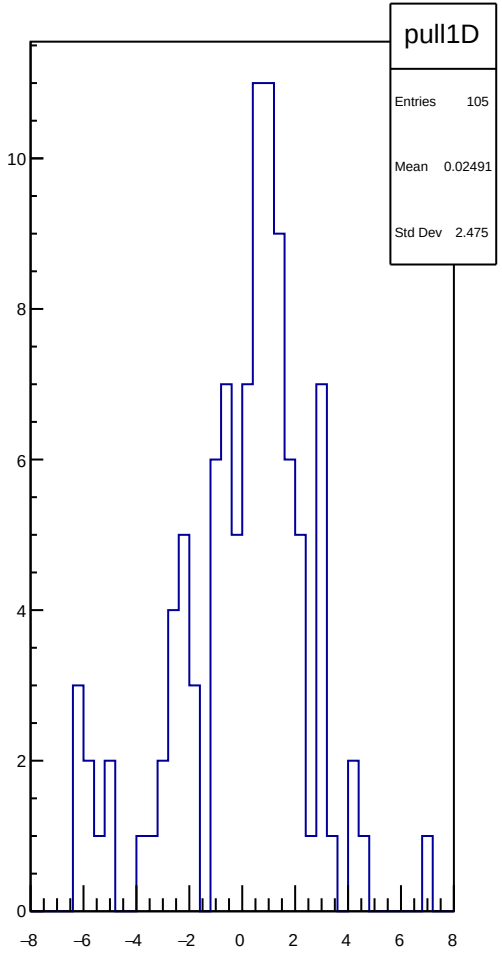

asym_bpm0i07WS_rms vs run
χ² / ndf 8.077e+04 / 104
p0 318.9 ± 0.2274
500
450
400
350
300
250

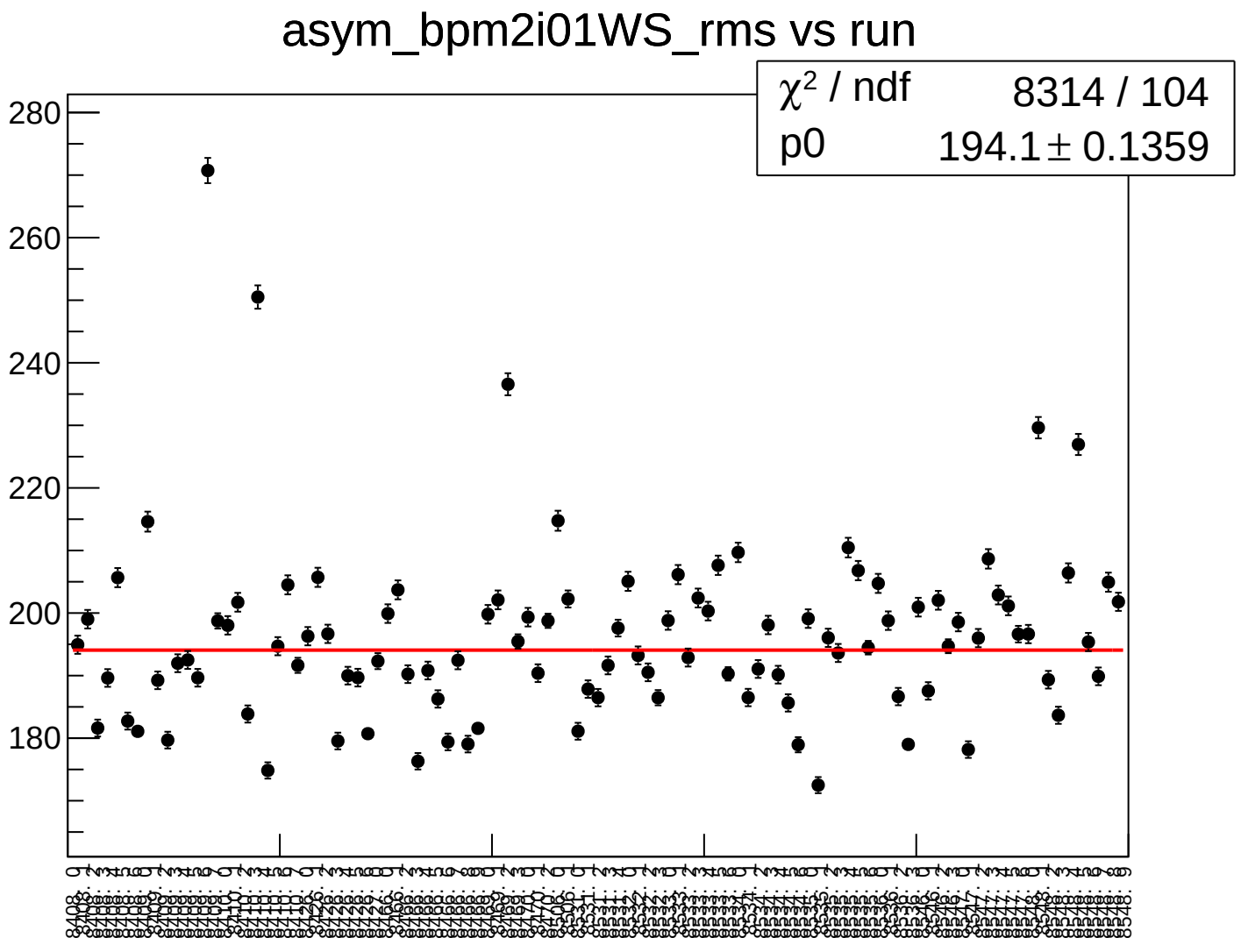

asym_bpm1i02WS_mean vs run
χ² / ndf 617.9 / 104
p0 8092 ± 200.4
20000
15000
10000
5000
0
−5000
−10000
pull
Entries 105
Mean 34.06
Std Dev 82.45
4
2
0
−2
−4
−6

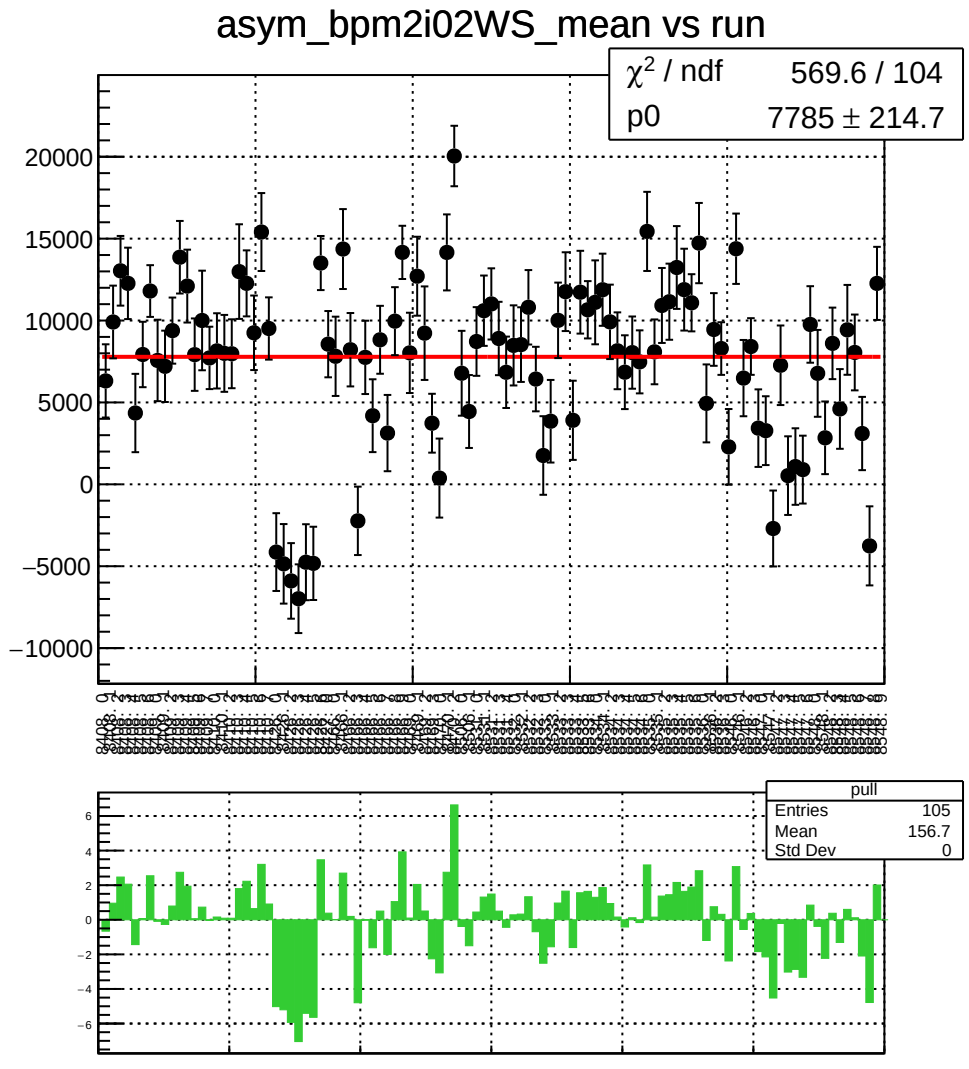

pull1D
Entries 105
Mean −0.04742
Std Dev 2.425
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

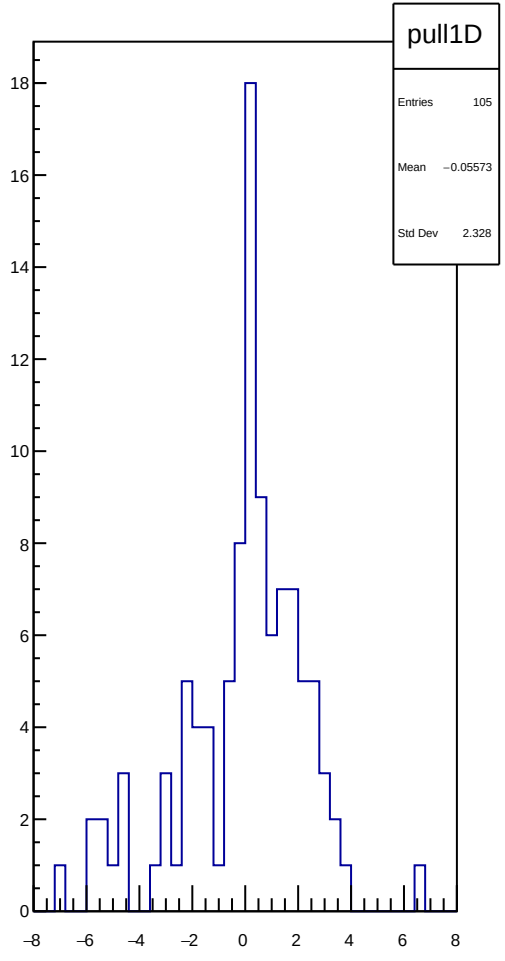

asym_bpm1i02WS_rms vs run
χ^2 / ndf 8928 / 104
p0 202.3 ± 0.1417
280
260
240
220
200
180

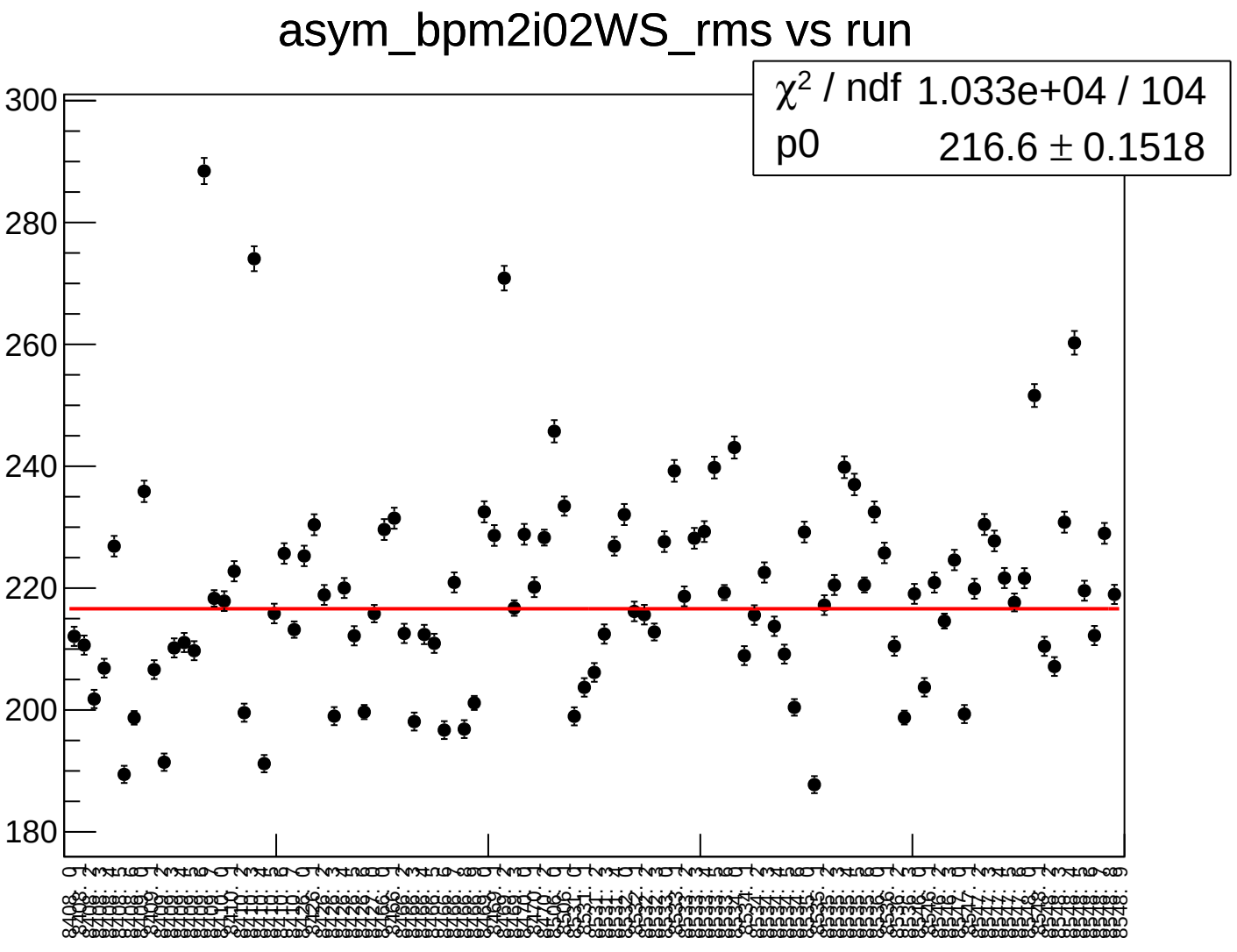

asym_bpm2i01WS_mean vs run
χ² / ndf 703.4 / 104
p0 7450 ± 192.3
20000
15000
10000
5000
0
−5000
−10000
pull
Entries 105
Mean 206.7
Std Dev 0
6
4
2
0
−2
−4
−6
−8

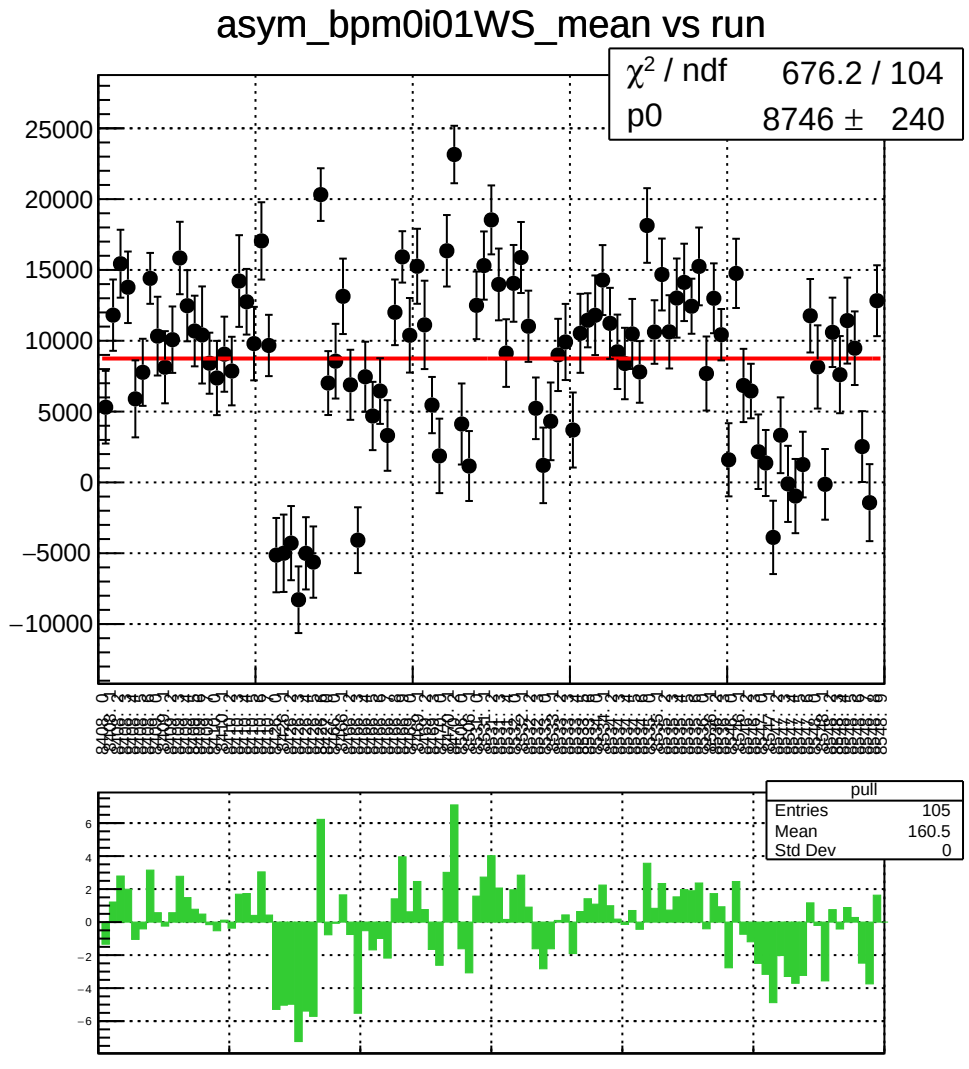

pull1D
Entries 105
Mean 0.02491
Std Dev 2.475
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

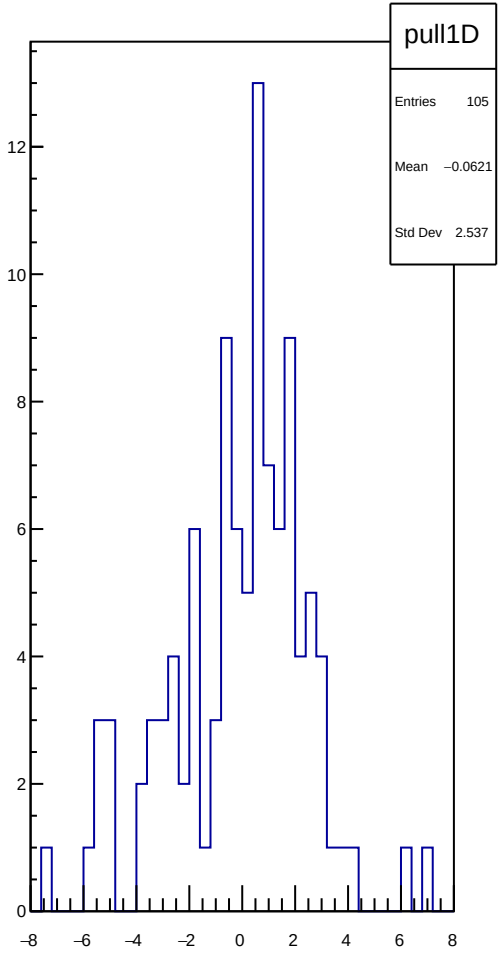

asym_bpm2i01WS_rms vs run
χ² / ndf 8314 / 104
p0 194.1 ± 0.1359
280
260
240
220
200
180

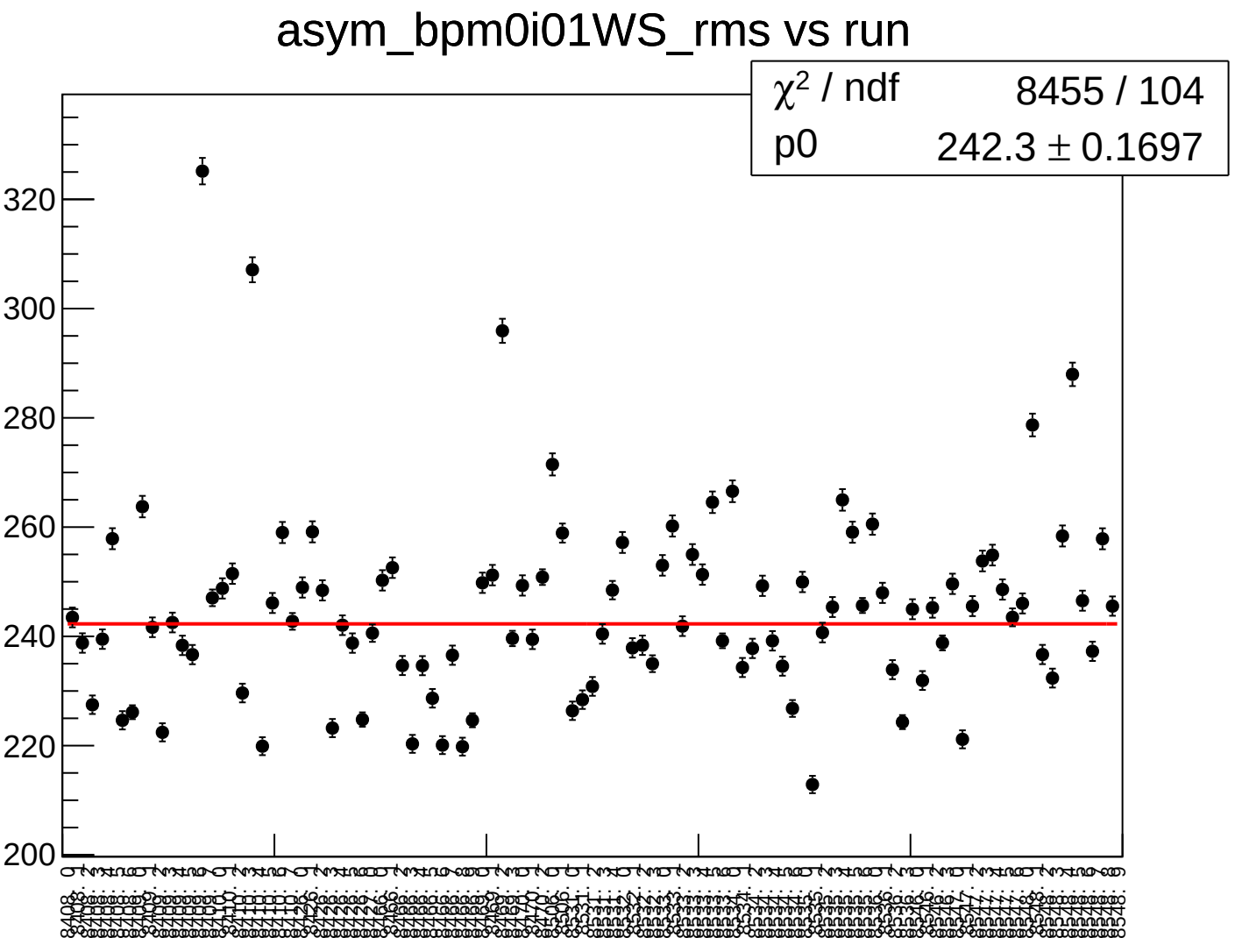

asym_bpm2i02WS_mean vs run
χ² / ndf 569.6 / 104
p0 7785 ± 214.7
20000
15000
10000
5000
0
−5000
−10000
pull
Entries 105
Mean 156.7
Std Dev 0
6
4
2
0
−2
−4
−6

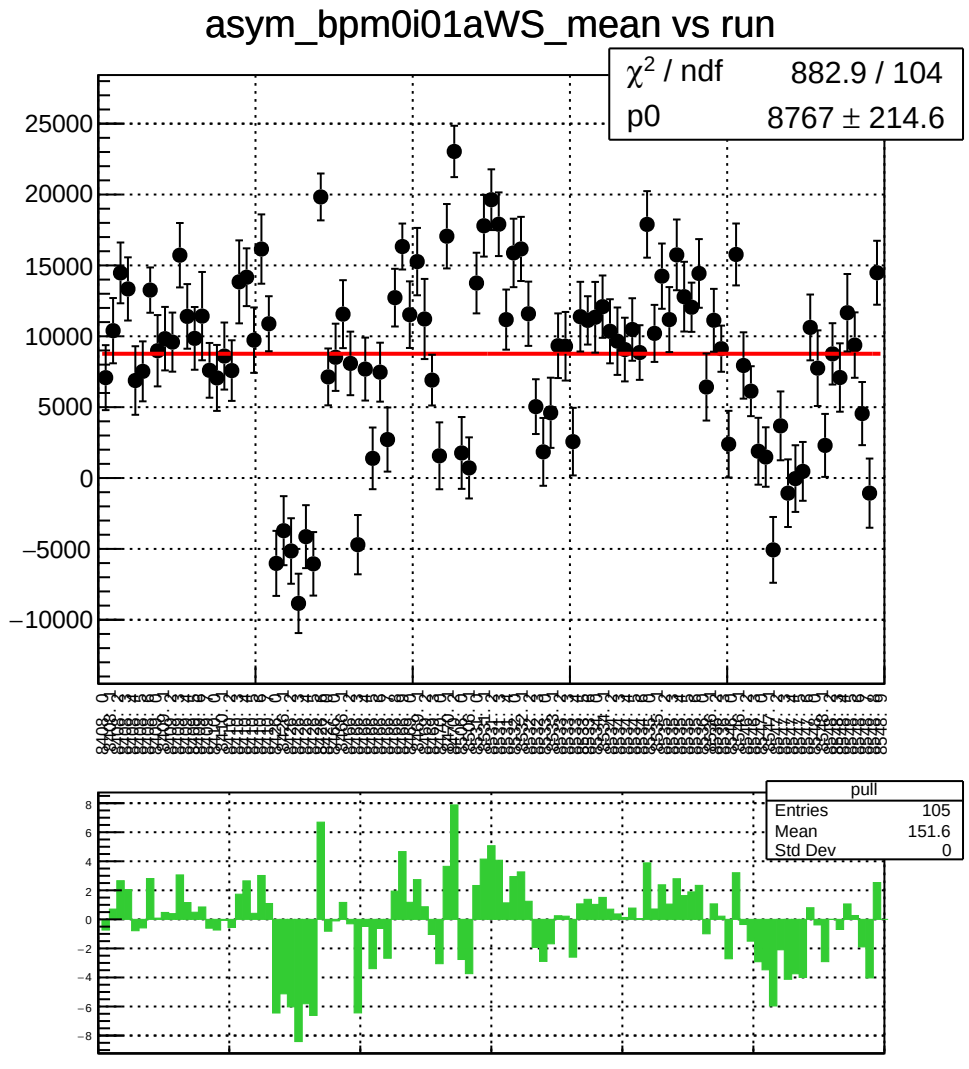

pull1D
Entries 105
Mean −0.05573
Std Dev 2.328
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

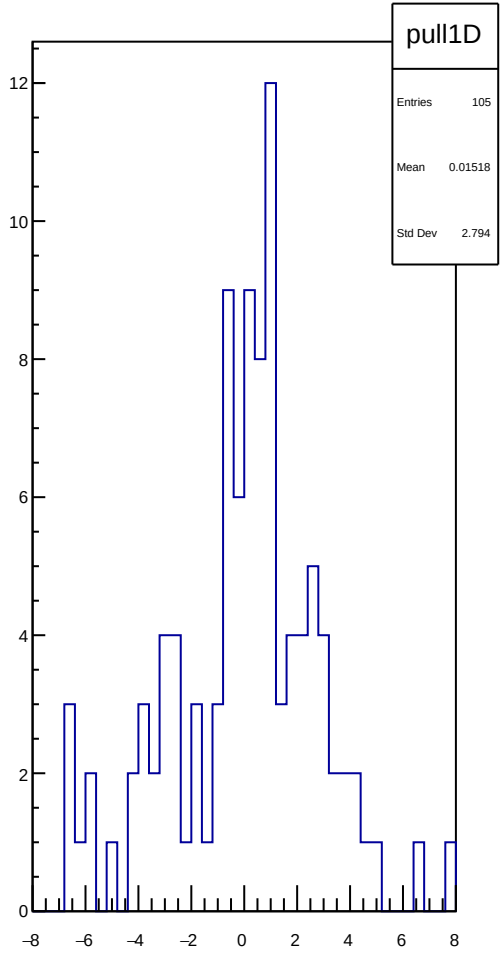

asym_bpm2i02WS_rms vs run
χ^2 / ndf 1.033e+04 / 104
p0 216.6 ± 0.1518
300
280
260
240
220
200
180

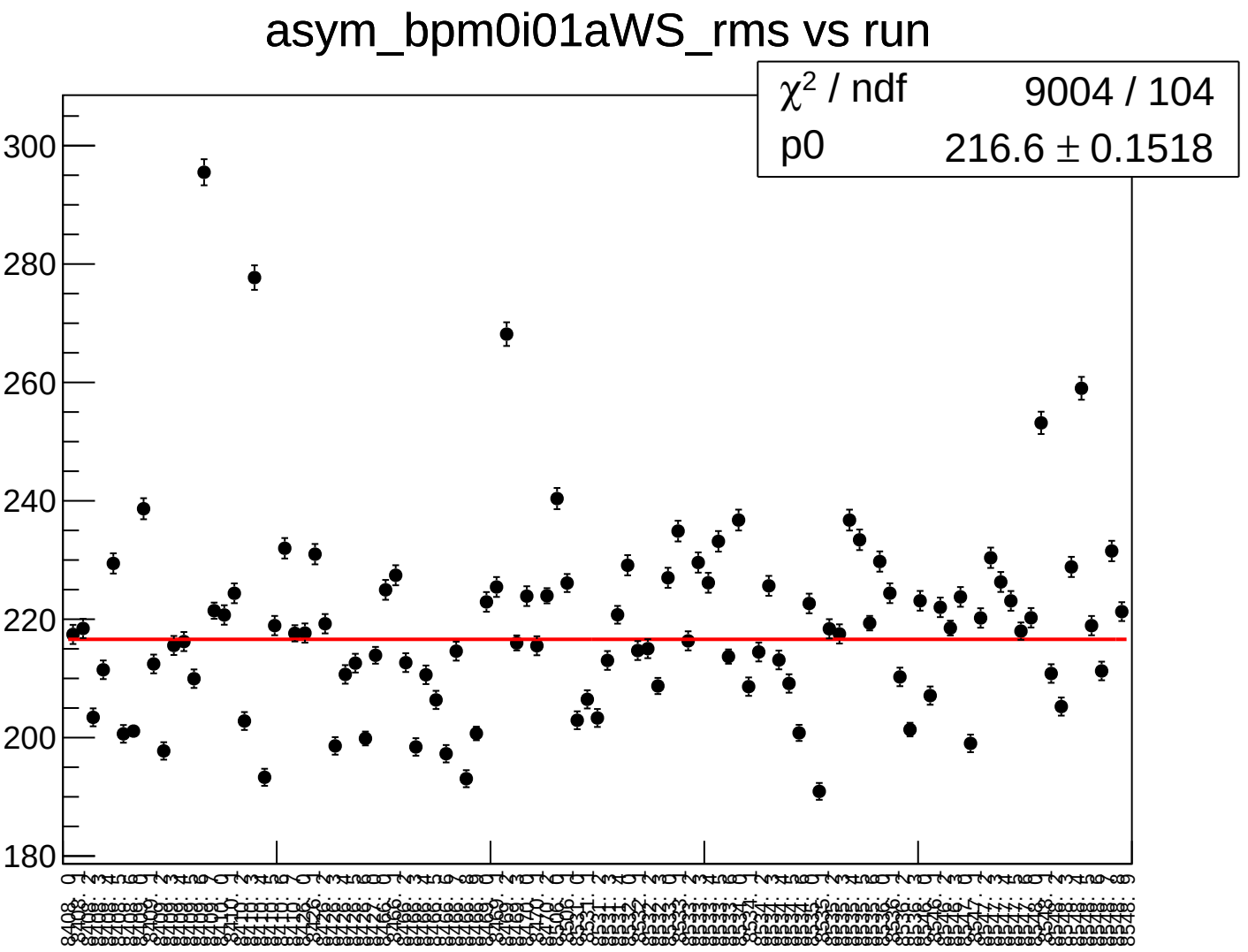

asym_bpm0i01WS_mean vs run
χ² / ndf 676.2 / 104
p0 8746 ± 240
25000
20000
15000
10000
5000
0
−5000
−10000
pull
Entries 105
Mean 160.5
Std Dev 0
6
4
2
0
−2
−4
−6

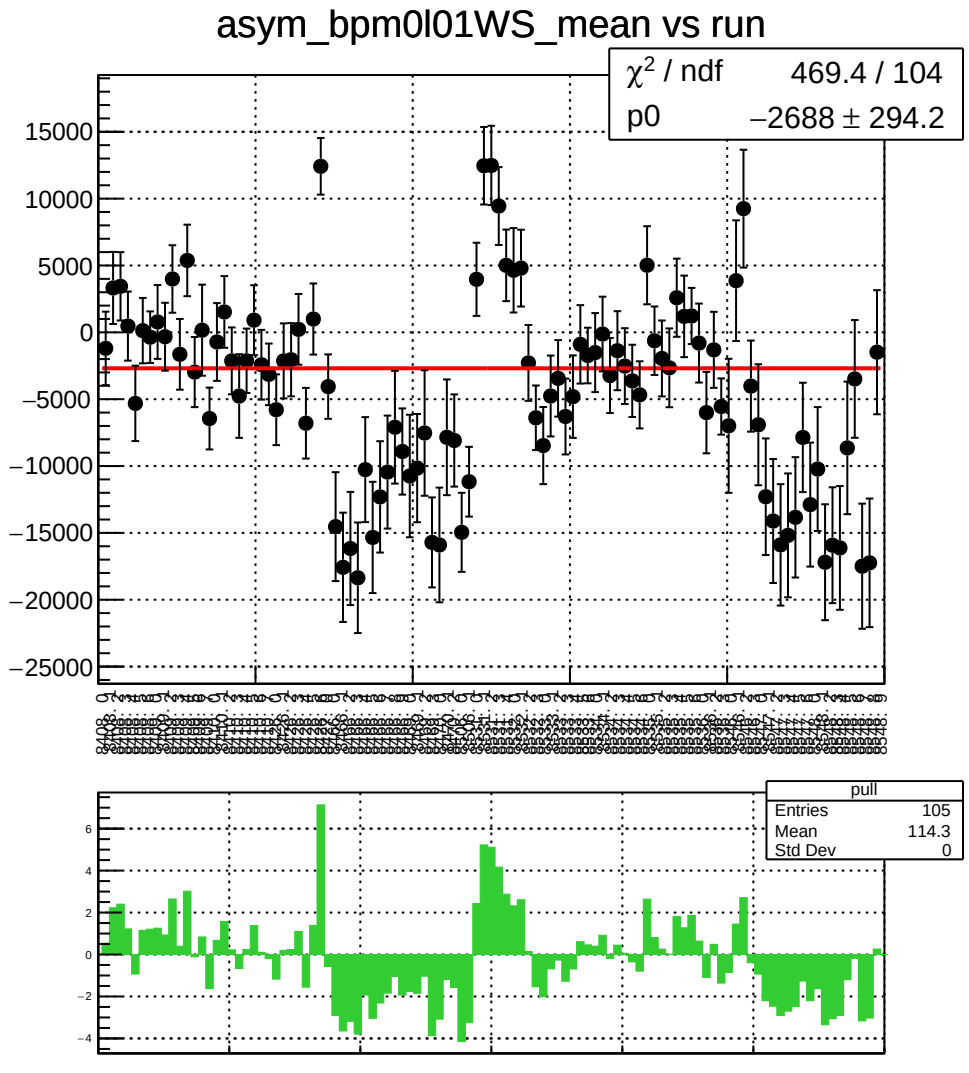

pull1D
Entries 105
Mean −0.0621
Std Dev 2.537
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

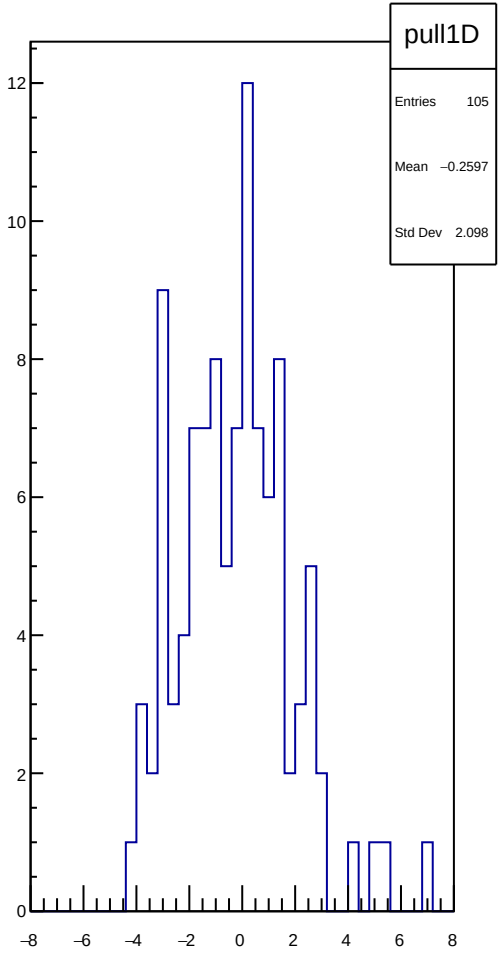

asym_bpm0i01WS_rms vs run
χ² / ndf 8455 / 104
p0 242.3 ± 0.1697
320
300
280
260
240
220
200

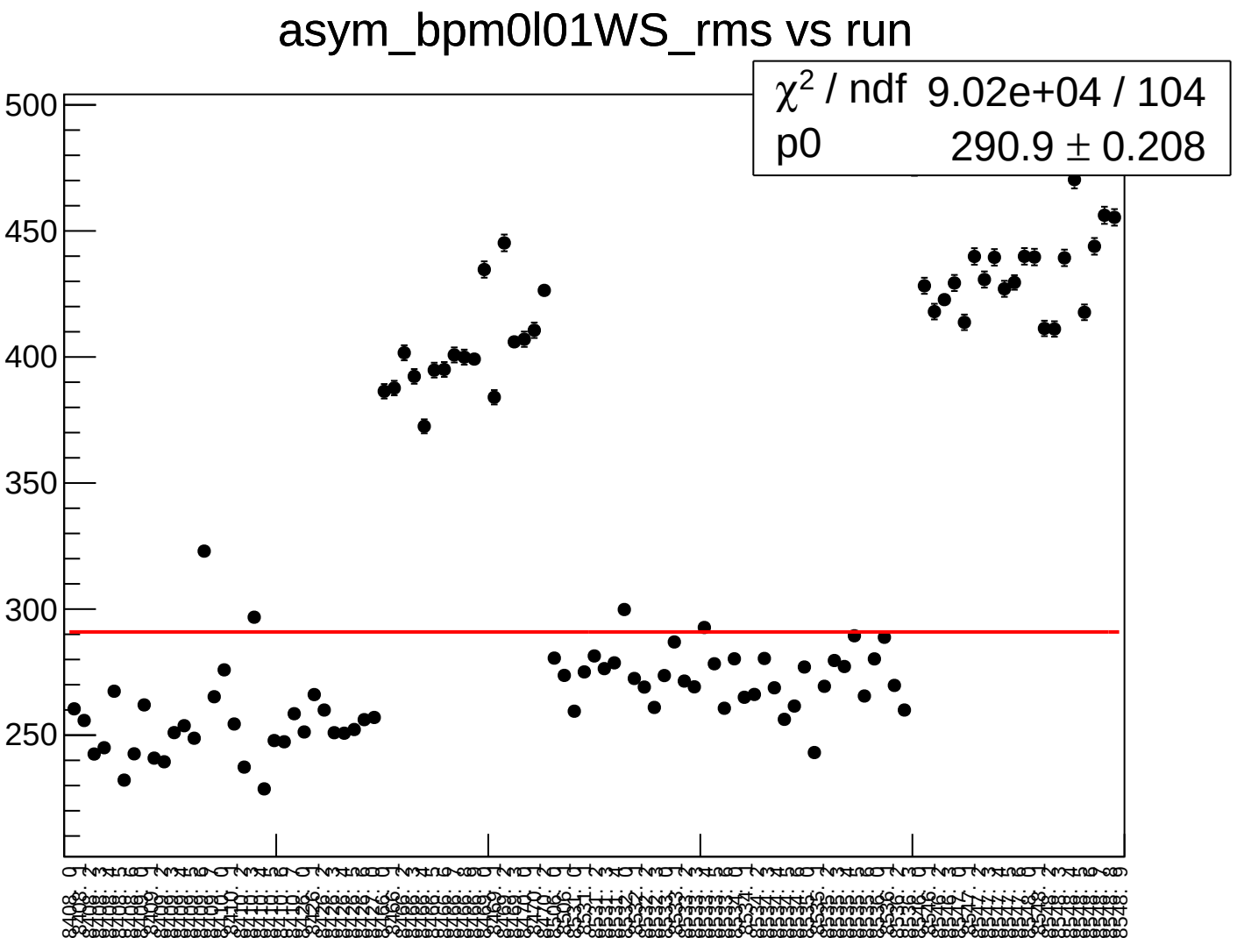

asym_bpm0i01aWS_mean vs run
χ² / ndf 882.9 / 104
p0 8767 ± 214.6
25000
20000
15000
10000
5000
0
−5000
−10000
pull
Entries 105
Mean 151.6
Std Dev 0
8
6
4
2
0
−2
−4
−6
−8

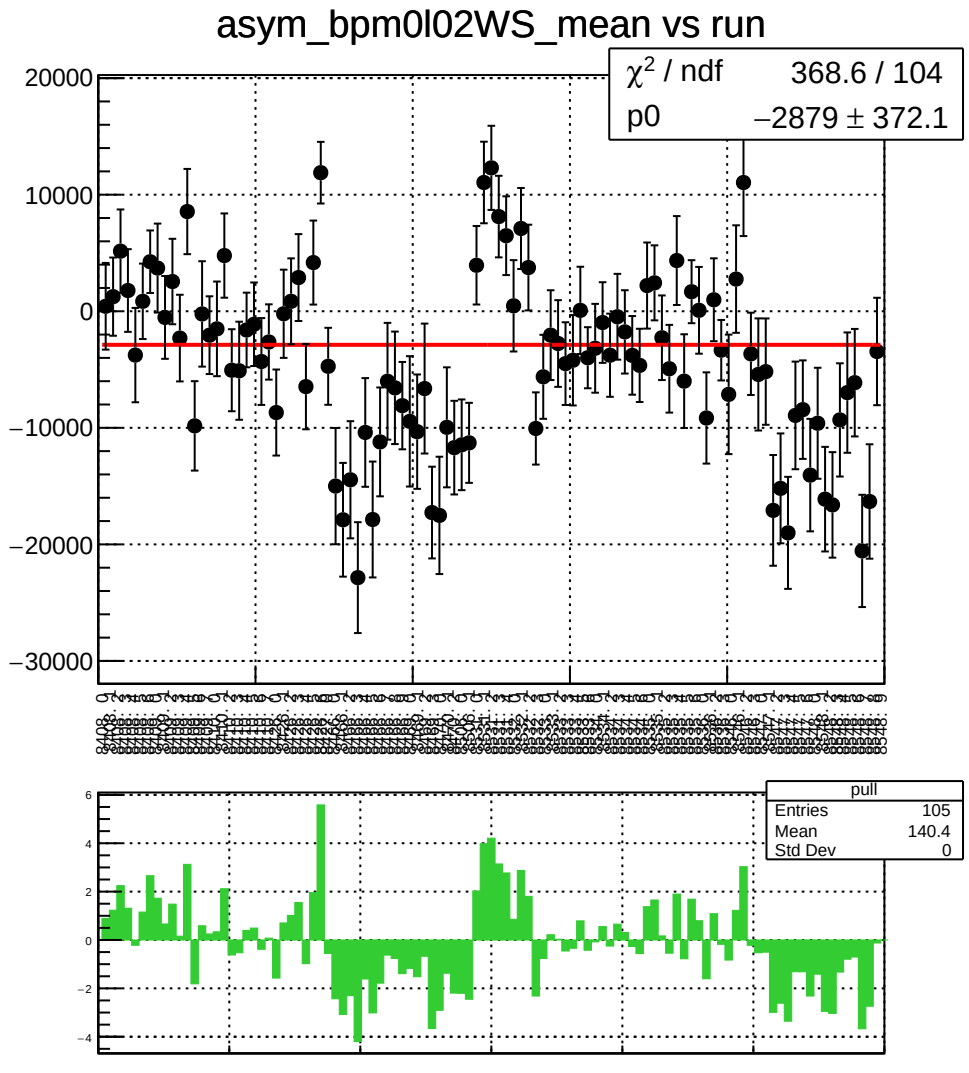

pull1D
Entries 105
Mean 0.01518
Std Dev 2.794
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

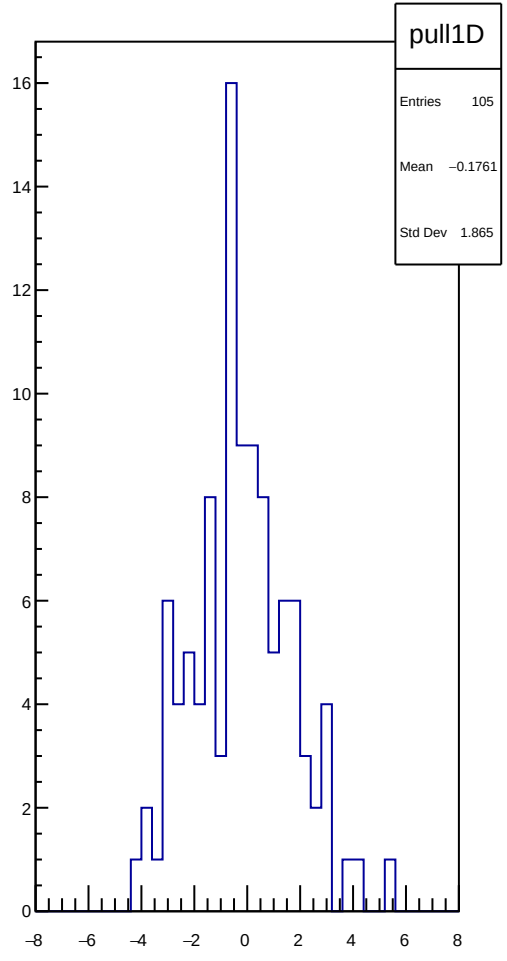

asym_bpm0i01aWS_rms vs run
χ^2 / ndf 9004 / 104
p0 216.6 ± 0.1518
300
280
260
240
220
200
180

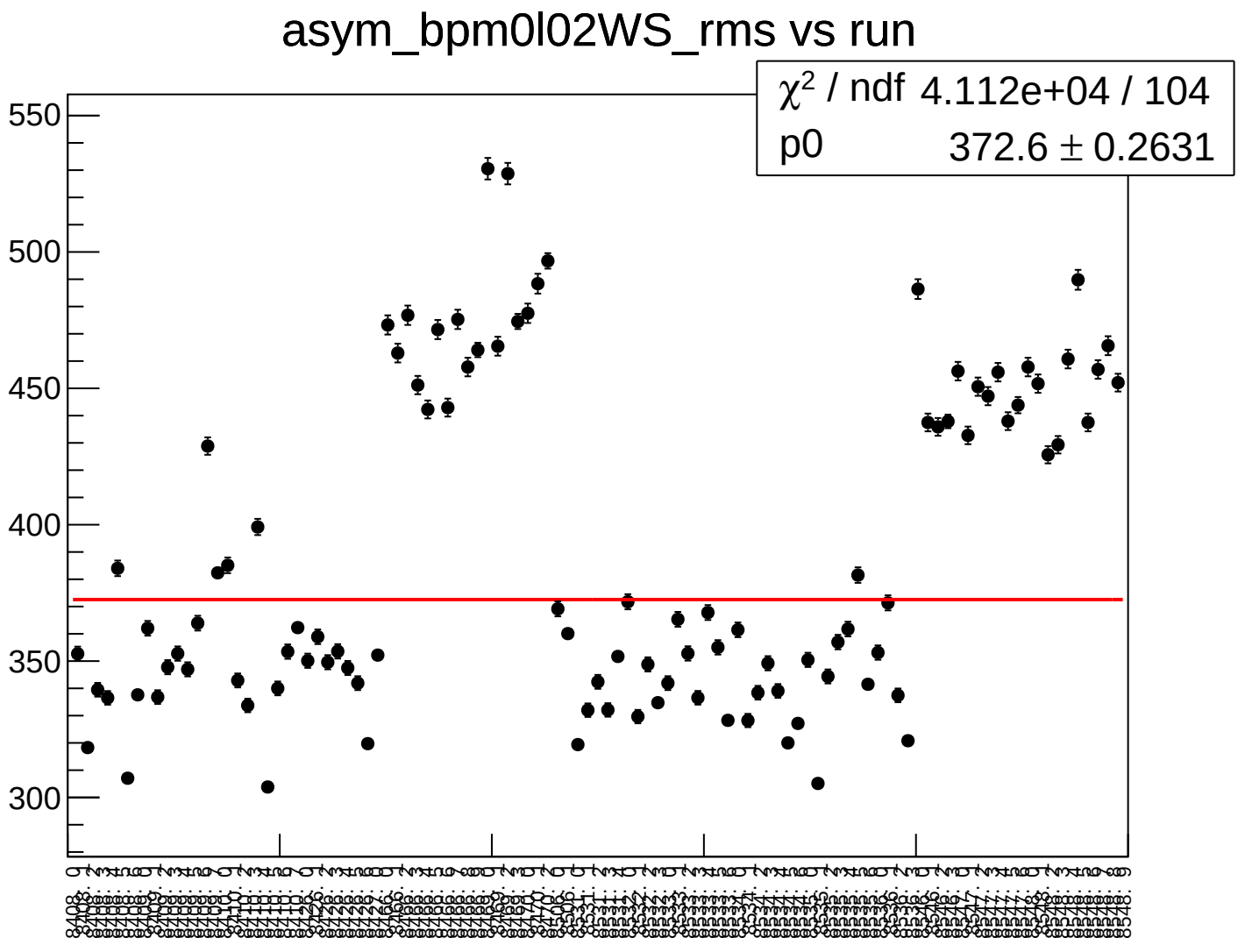

asym_bpm0l01WS_mean vs run
χ² / ndf 469.4 / 104
p0 −2688 ± 294.2
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 105
Mean 114.3
Std Dev 0
6
4
2
0
−2
−4

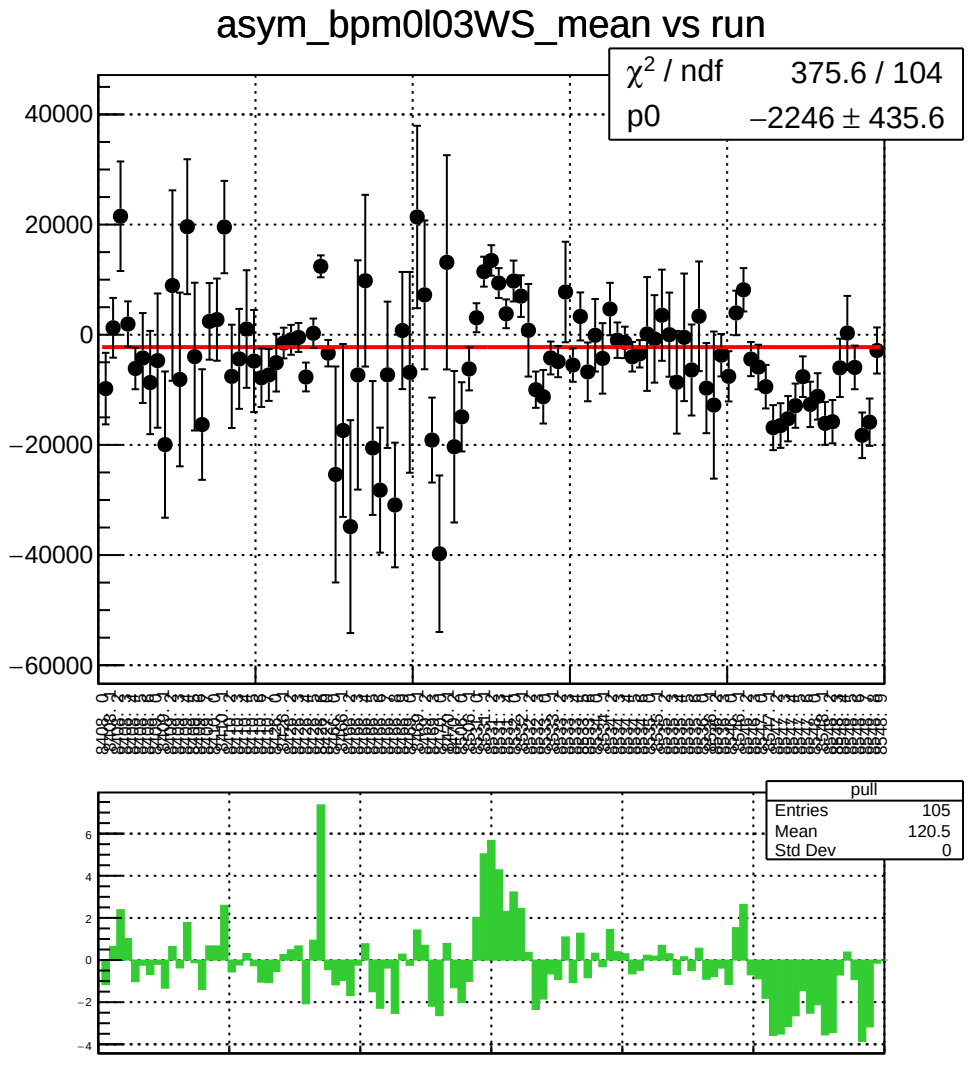

pull1D
Entries 105
Mean −0.2597
Std Dev 2.098
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

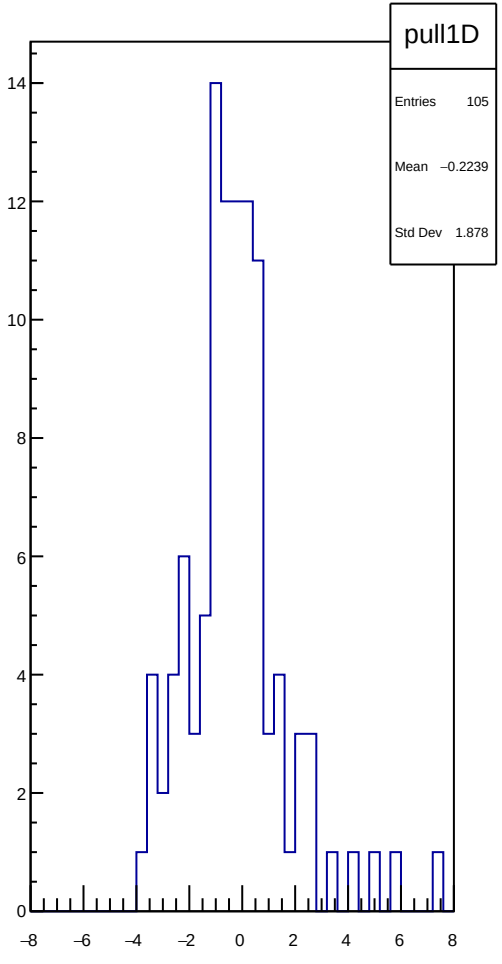

asym_bpm0l01WS_rms vs run
χ^2 / ndf 9.02e+04 / 104
p0 290.9 ± 0.208
500
450
400
350
300
250

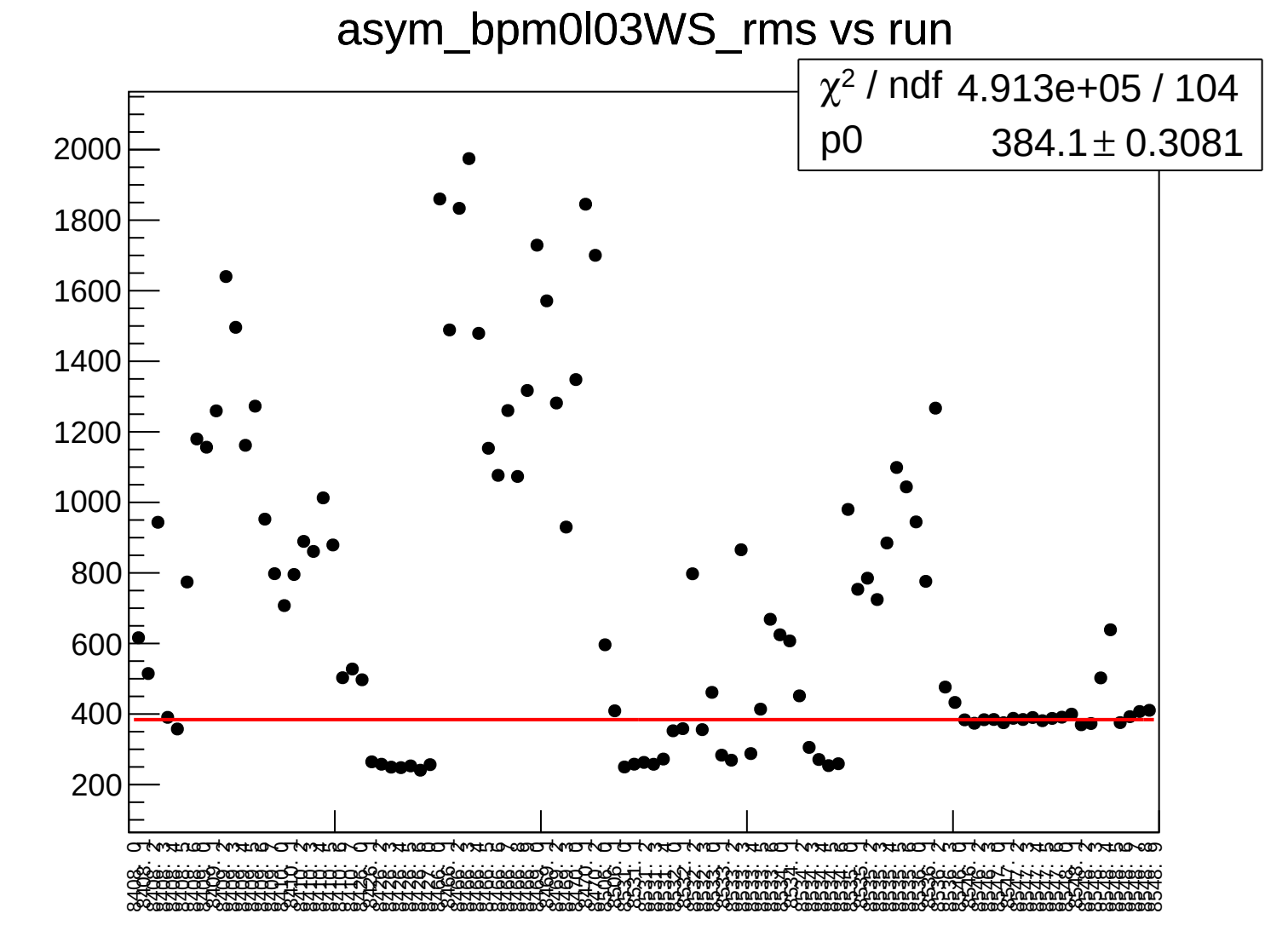

asym_bpm0l02WS_mean vs run
χ² / ndf 368.6 / 104
p0 −2879 ± 372.1
20000
10000
0
−10000
−20000
−30000
pull
Entries 105
Mean 140.4
Std Dev 0
6
4
2
0
−2
−4

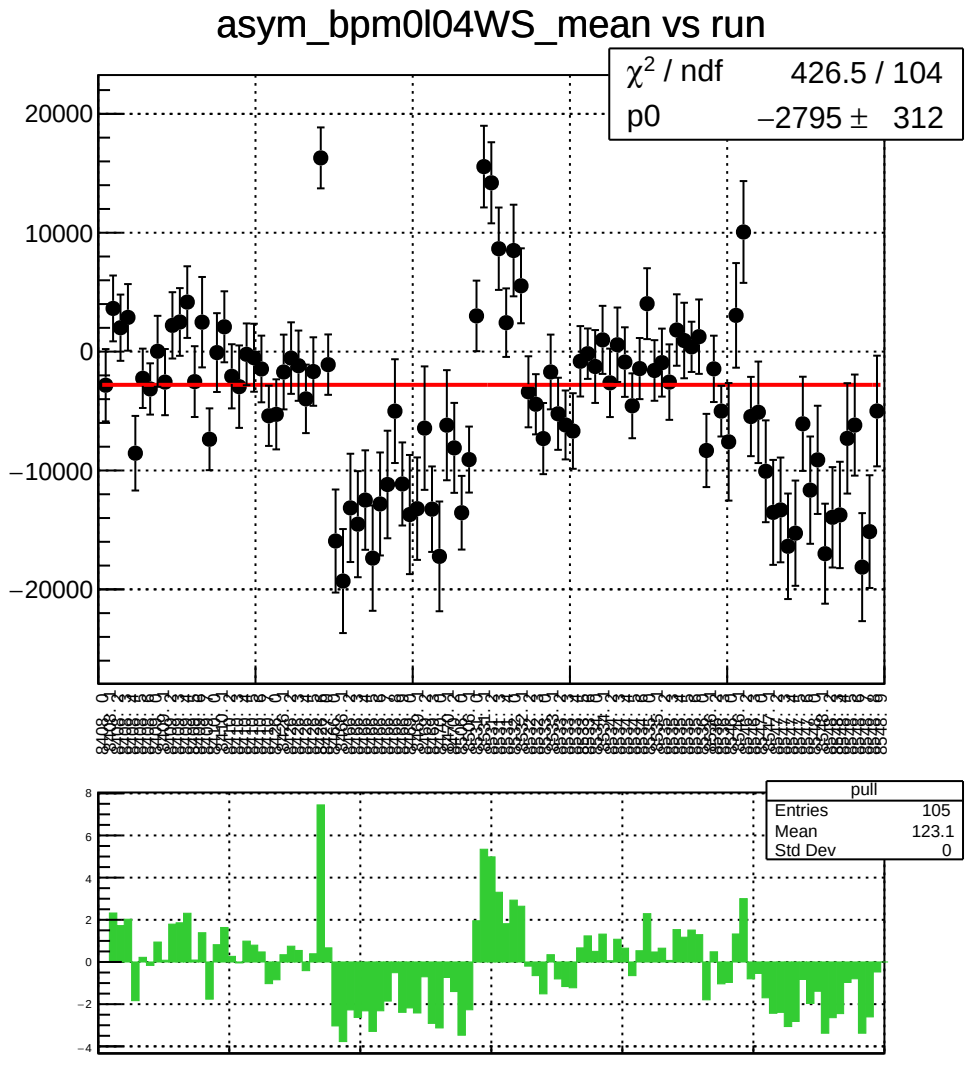

pull1D
Entries 105
Mean −0.1761
Std Dev 1.865
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

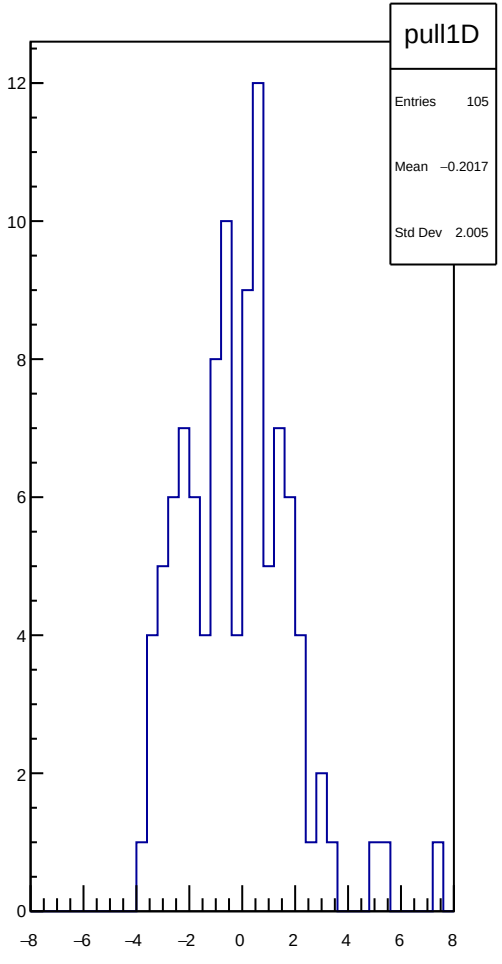

asym_bpm0l02WS_rms vs run
χ^2 / ndf 4.112e+04 / 104
p0 372.6 ± 0.2631
550
500
450
400
350
300

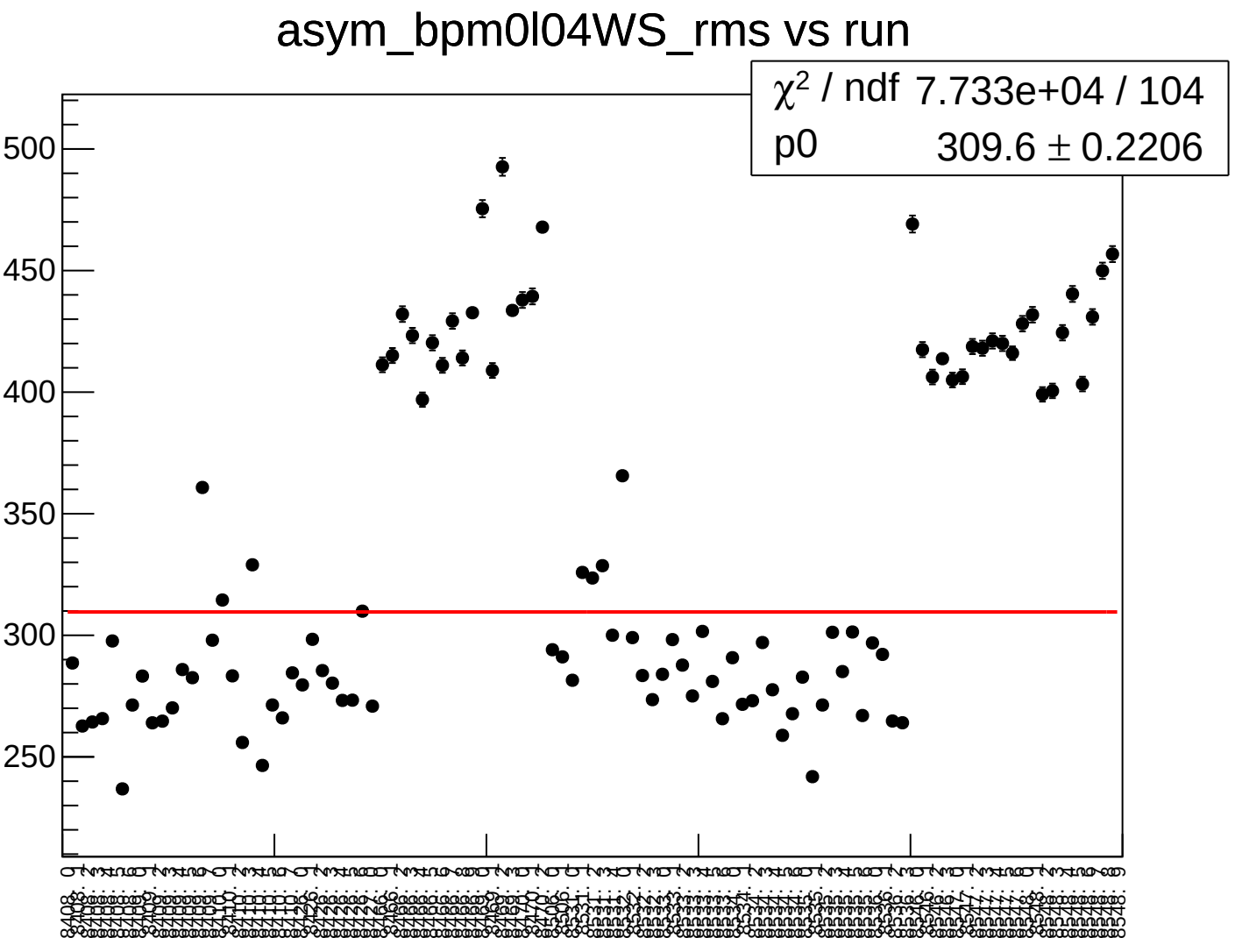

asym_bpm0l03WS_mean vs run
χ² / ndf 375.6 / 104
p0 −2246 ± 435.6
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean 120.5
Std Dev 0
6
4
2
0
−2
−4

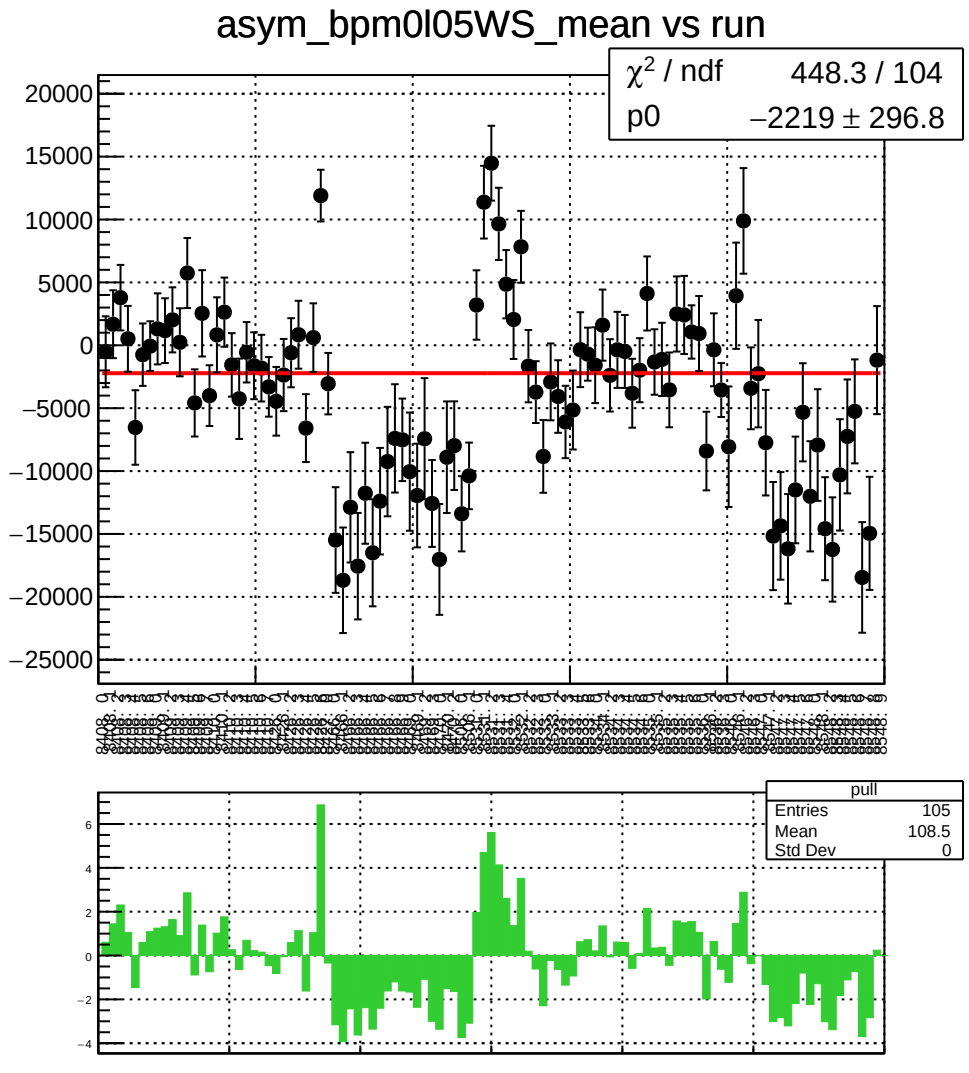

pull1D
Entries 105
Mean −0.2239
Std Dev 1.878
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

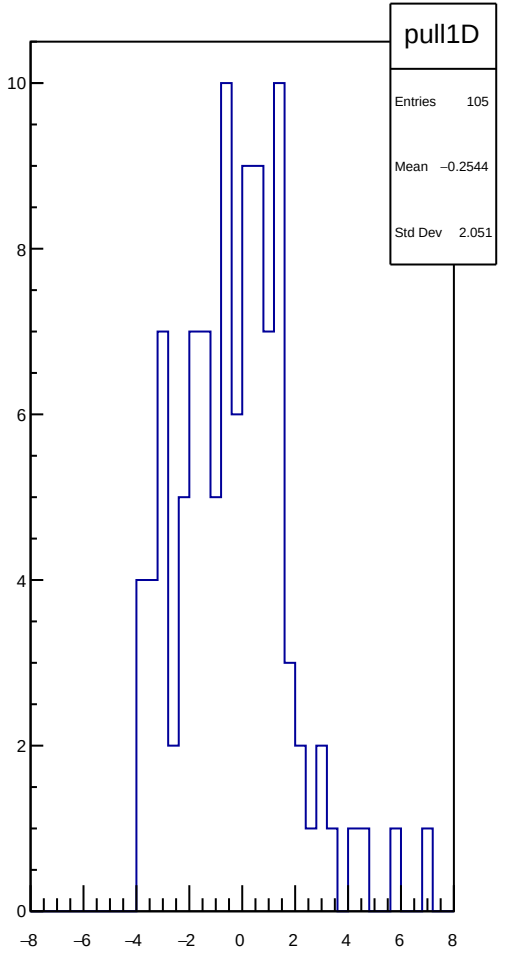

asym_bpm0l03WS_rms vs run
χ^2 / ndf 4.913e+05 / 104
p0 384.1 ± 0.3081
2000
1800
1600
1400
1200
1000
800
600
400
200

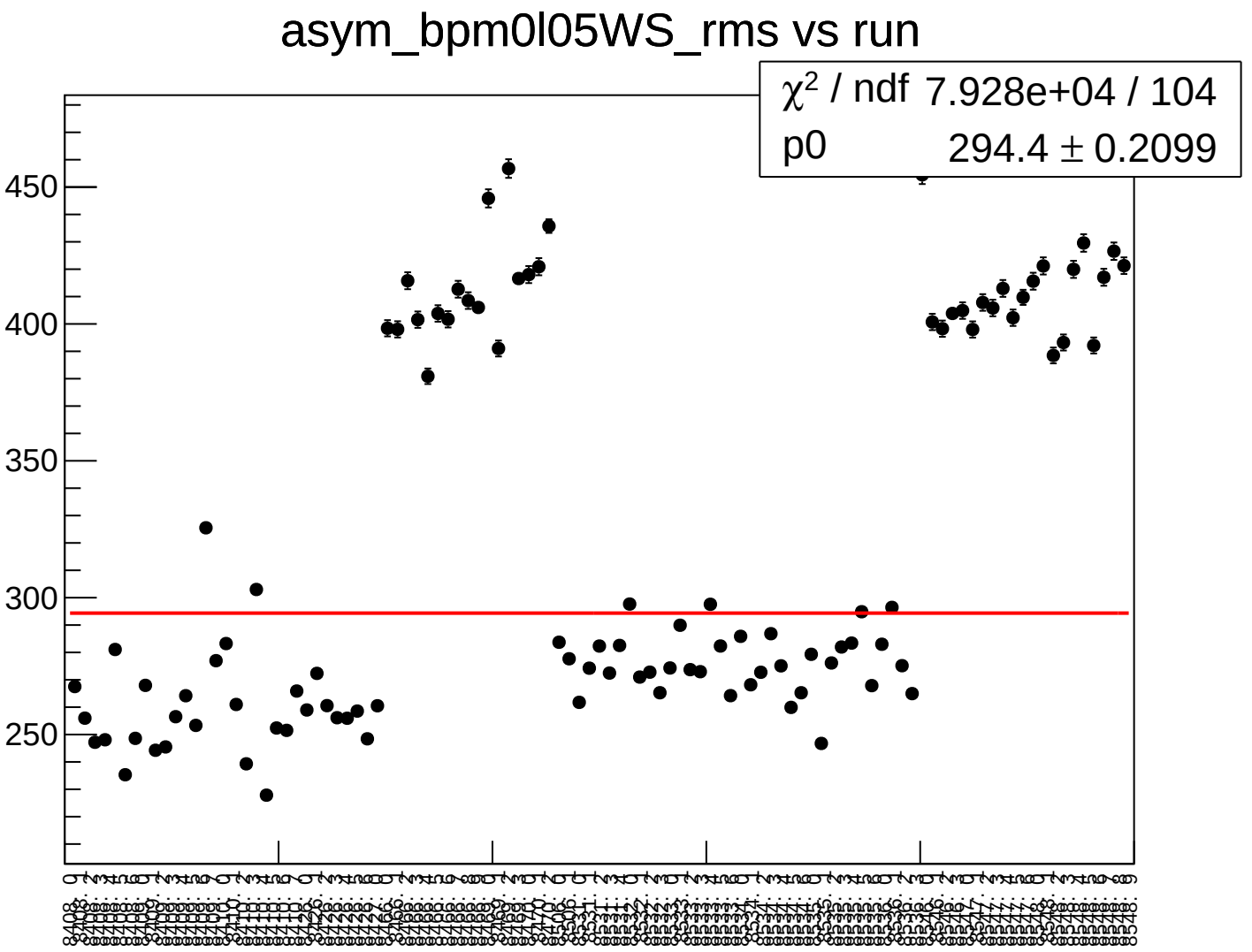

asym_bpm0l04WS_mean vs run
χ² / ndf 426.5 / 104
p0 −2795 ± 312
20000
10000
0
−10000
−20000
pull
Entries 105
Mean 123.1
Std Dev 0
8
6
4
2
0
−2
−4

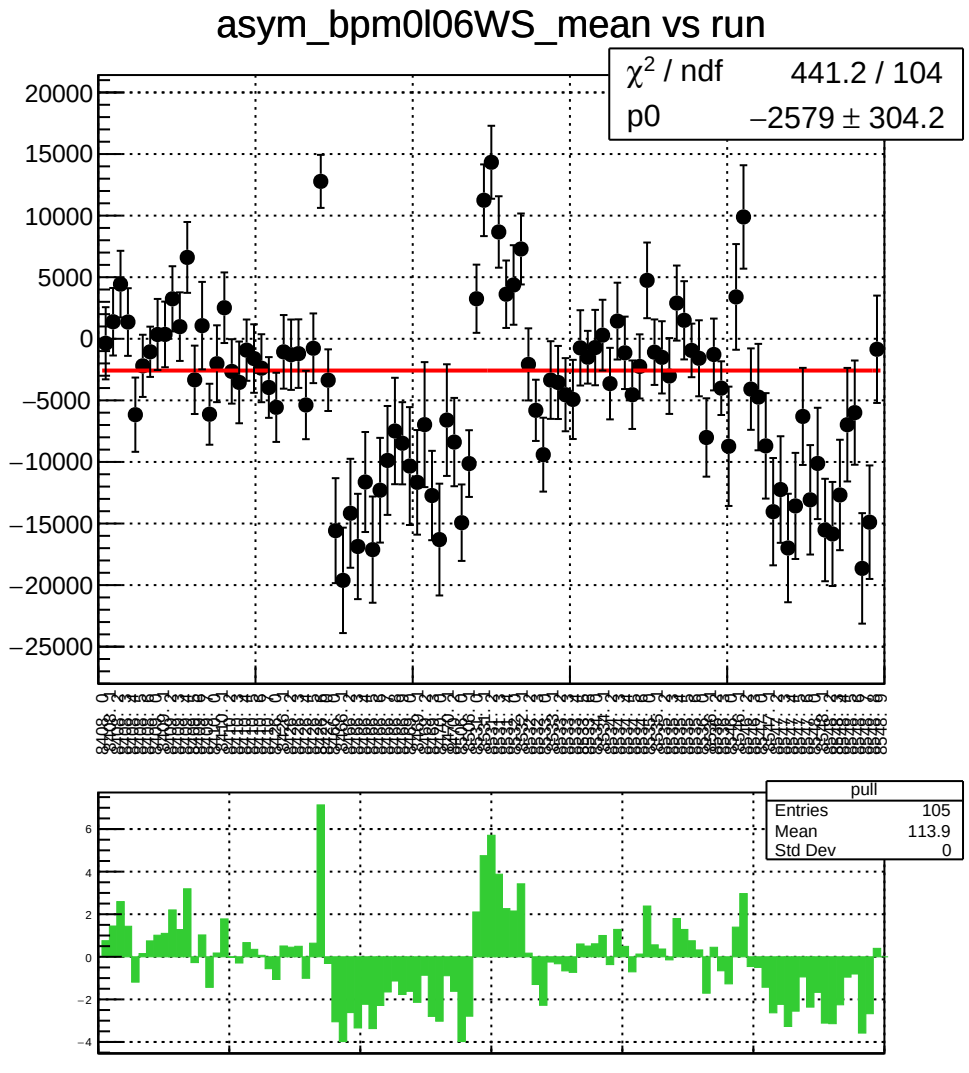

pull1D
Entries 105
Mean −0.2017
Std Dev 2.005
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

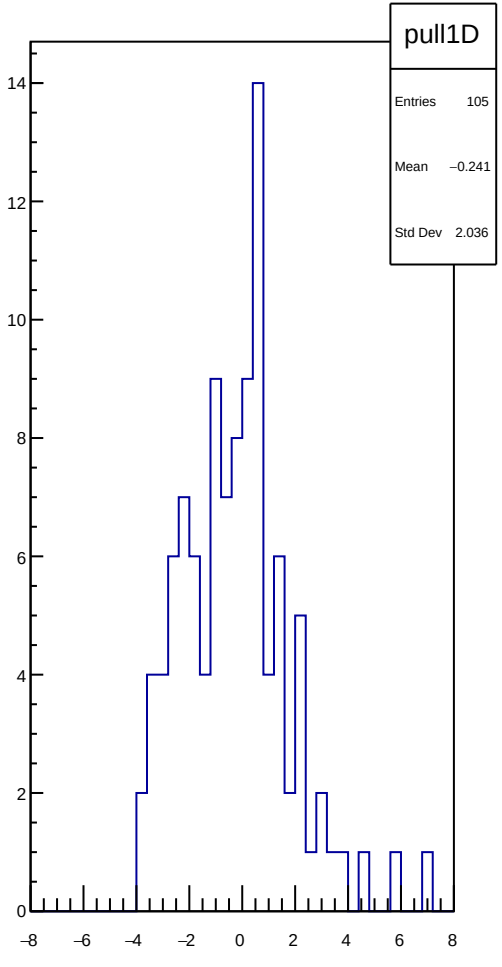

asym_bpm0l04WS_rms vs run
χ² / ndf 7.733e+04 / 104
p0 309.6 ± 0.2206
500
450
400
350
300
250

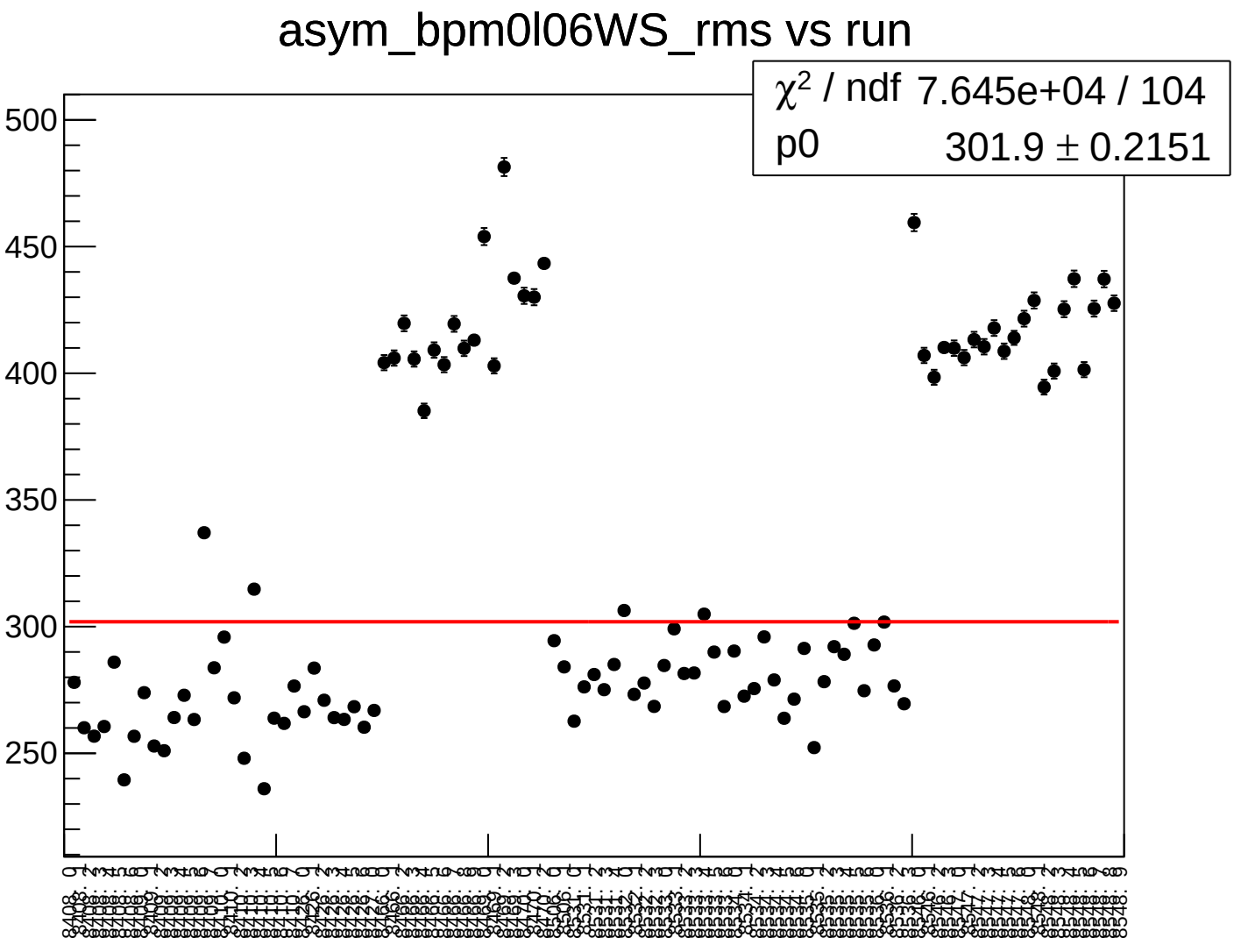

asym_bpm0l05WS_mean vs run
χ² / ndf 448.3 / 104
p0 −2219 ± 296.8
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 105
Mean 108.5
Std Dev 0
6
4
2
0
−2
−4

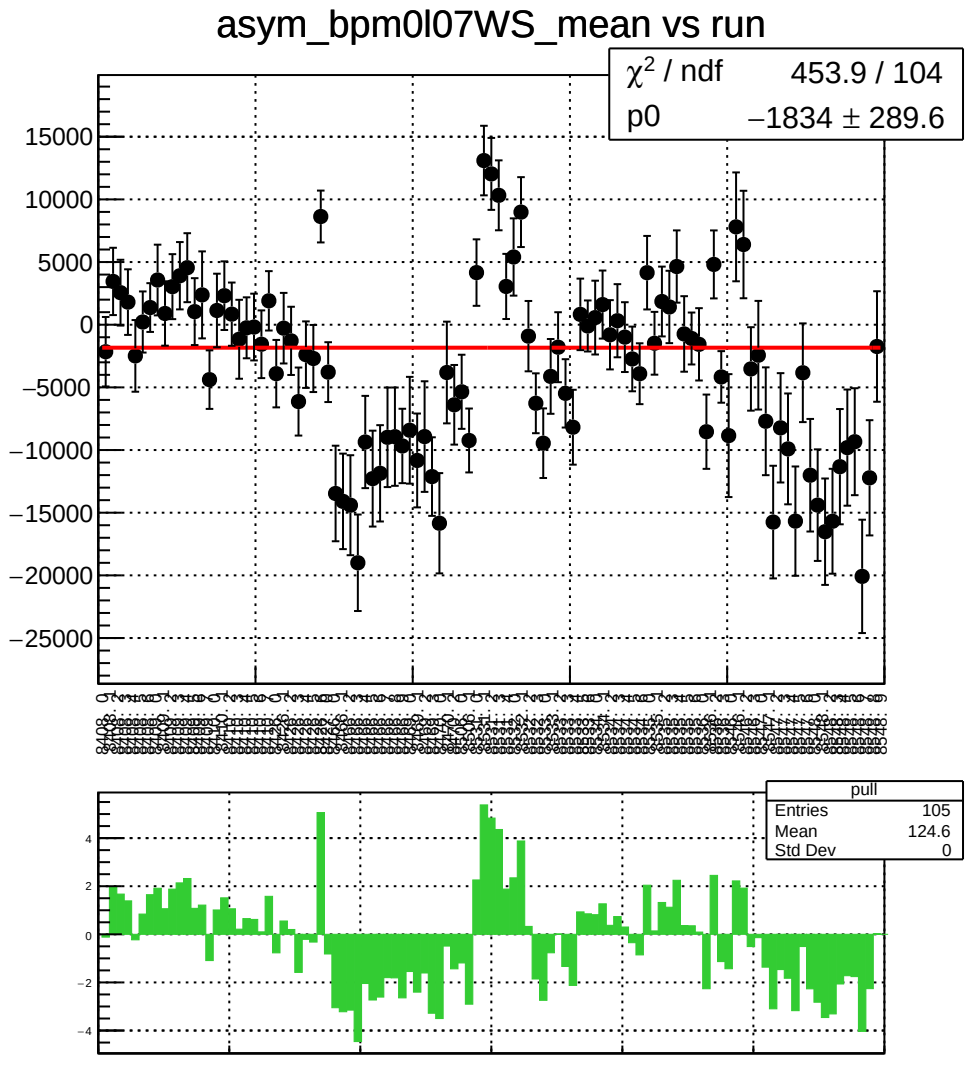

pull1D
Entries 105
Mean −0.2544
Std Dev 2.051
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

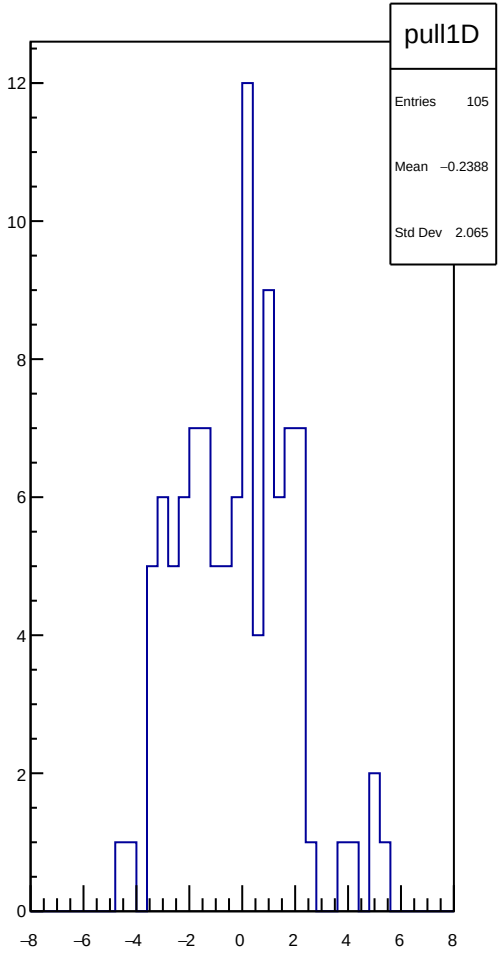

asym_bpm0l05WS_rms vs run
χ^2 / ndf 7.928e+04 / 104
p0 294.4 ± 0.2099
450
400
350
300
250

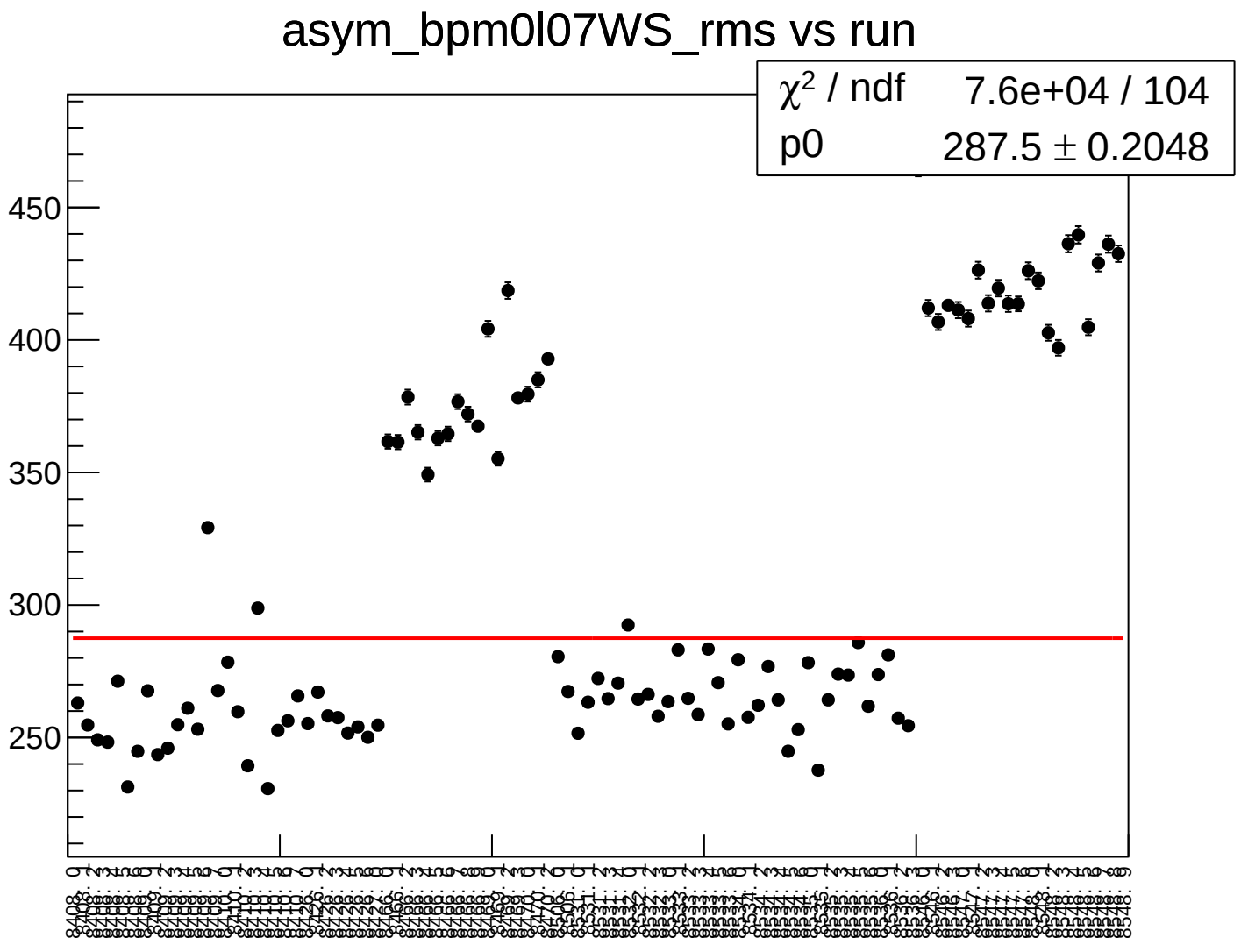

asym_bpm0l06WS_mean vs run
χ² / ndf 441.2 / 104
p0 −2579 ± 304.2
pull
Entries 105
Mean 113.9
Std Dev 0

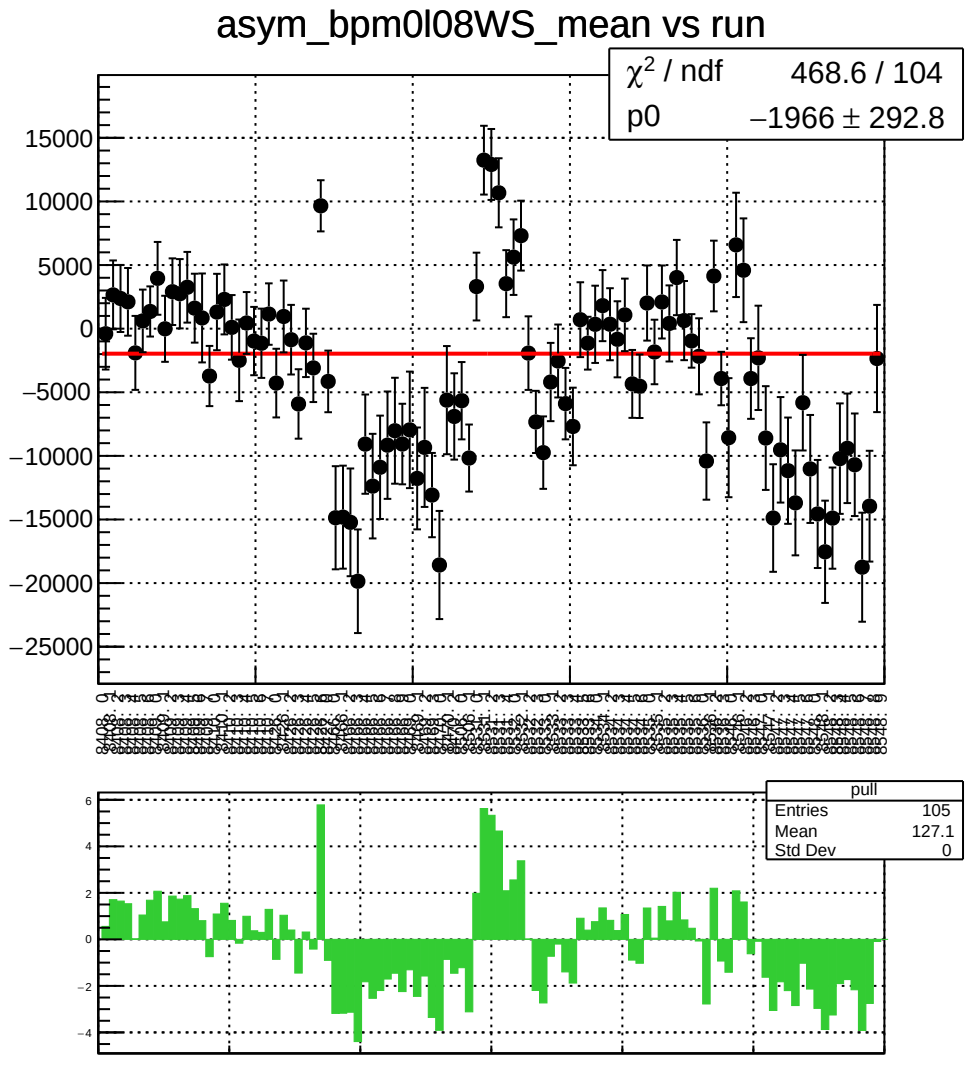

pull1D
Entries 105
Mean −0.241
Std Dev 2.036

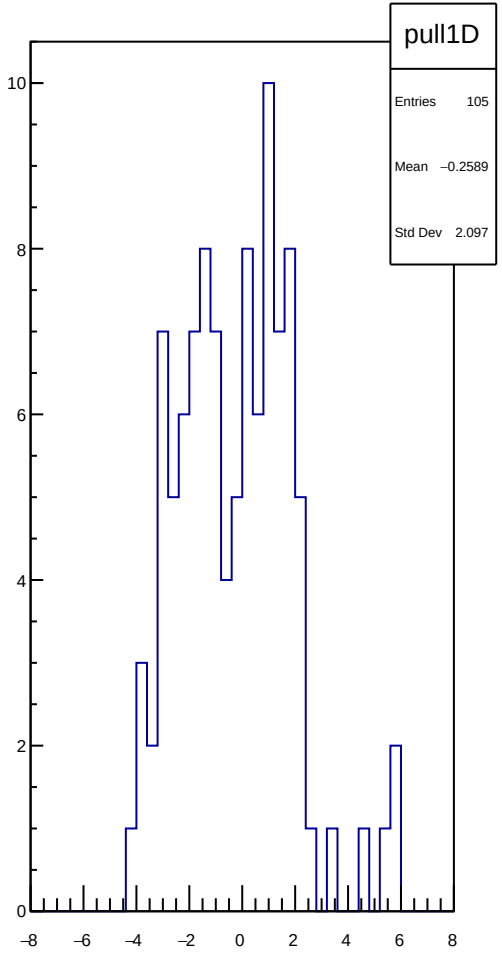

asym_bpm0l06WS_rms vs run
χ^2 / ndf 7.645e+04 / 104
p0 301.9 ± 0.2151
500
450
400
350
300
250

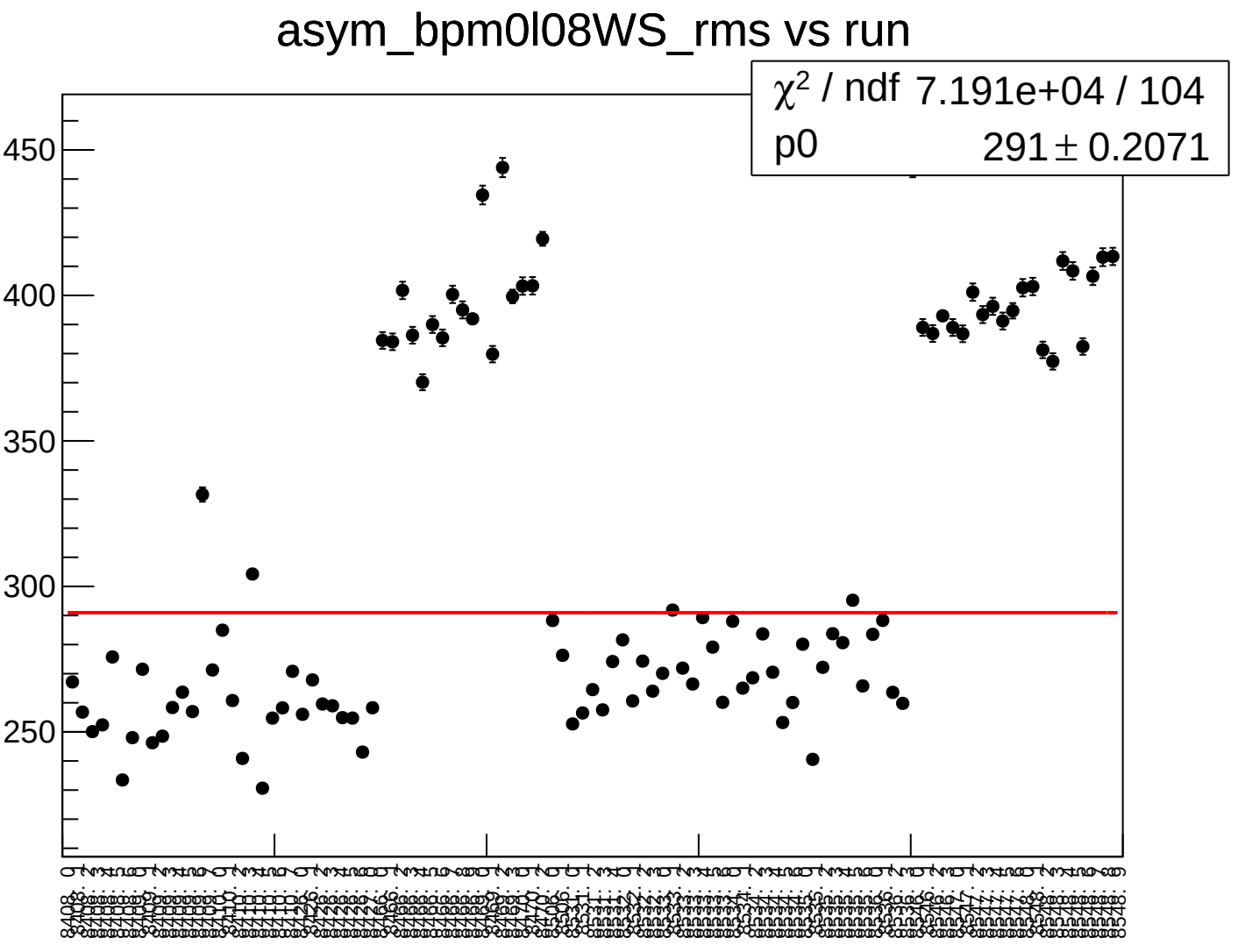

asym_bpm0l07WS_mean vs run
χ² / ndf 453.9 / 104
p0 −1834 ± 289.6
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 105
Mean 124.6
Std Dev 0
4
2
0
−2
−4

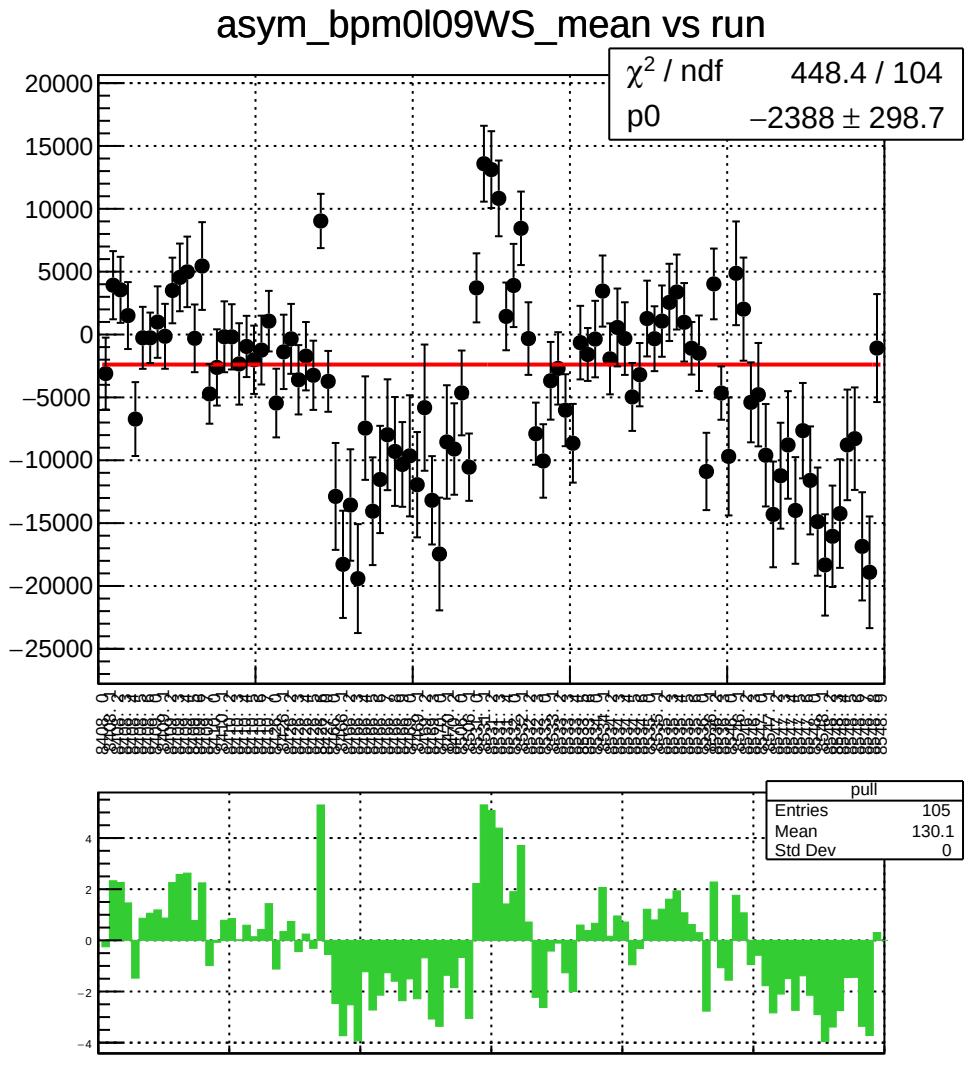

pull1D
Entries 105
Mean −0.2388
Std Dev 2.065
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

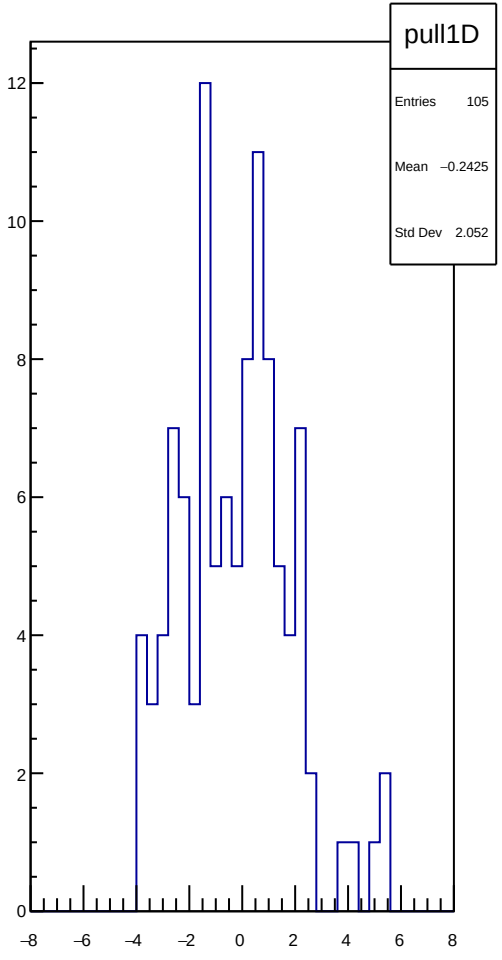

asym_bpm0l07WS_rms vs run
χ^2 / ndf 7.6e+04 / 104
p0 287.5 ± 0.2048
450
400
350
300
250

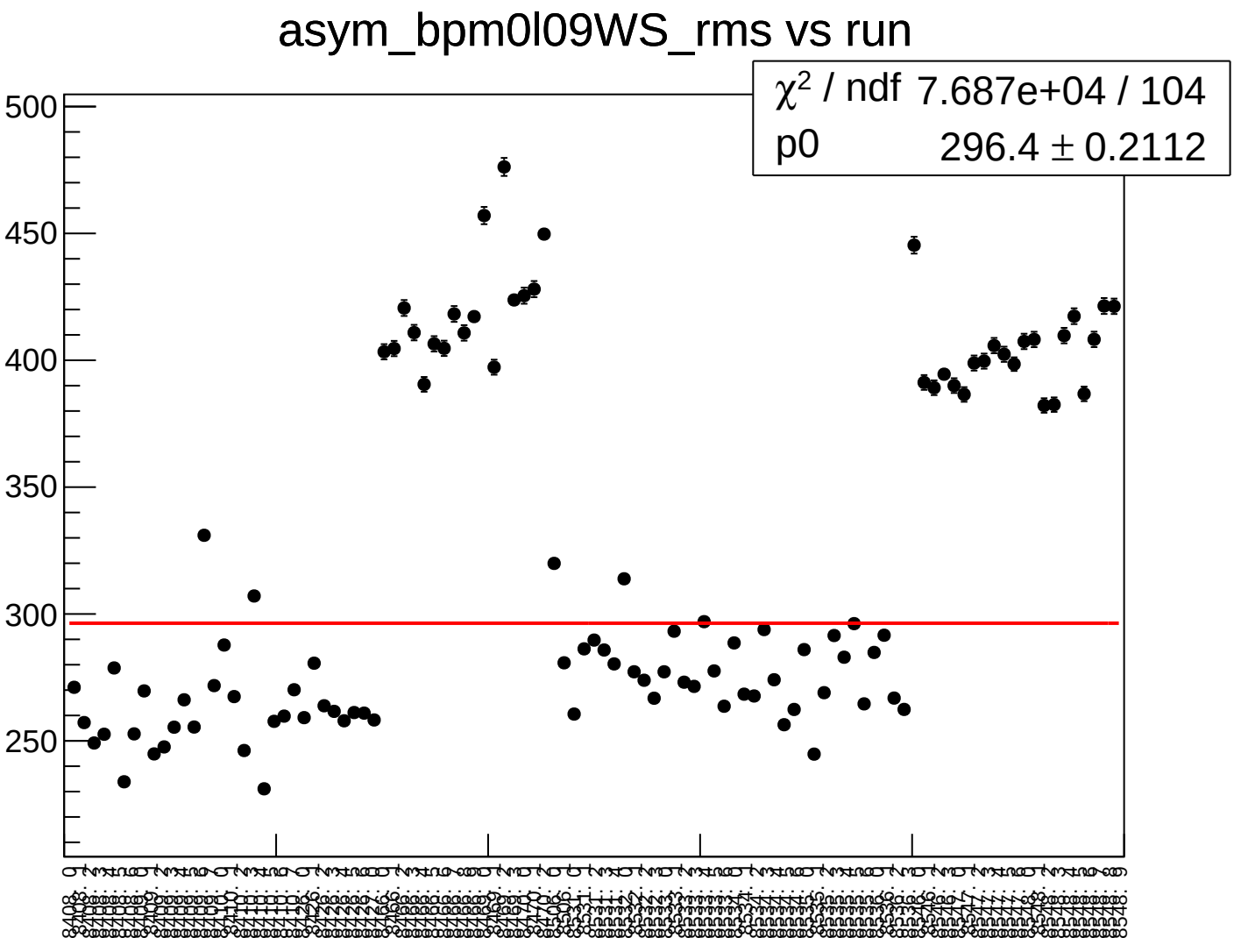

asym_bpm0l08WS_mean vs run
χ² / ndf 468.6 / 104
p0 −1966 ± 292.8
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 105
Mean 127.1
Std Dev 0
6
4
2
0
−2
−4

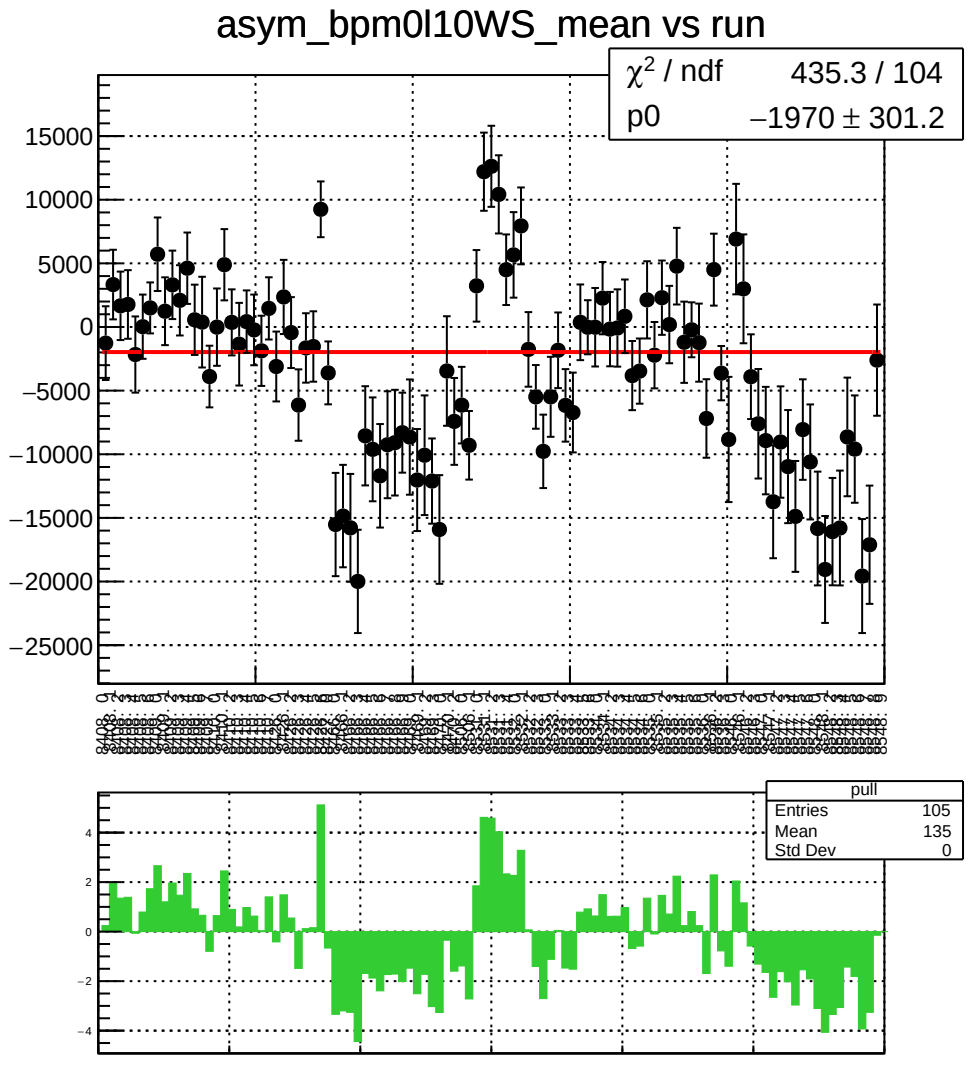

pull1D
Entries 105
Mean −0.2589
Std Dev 2.097
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

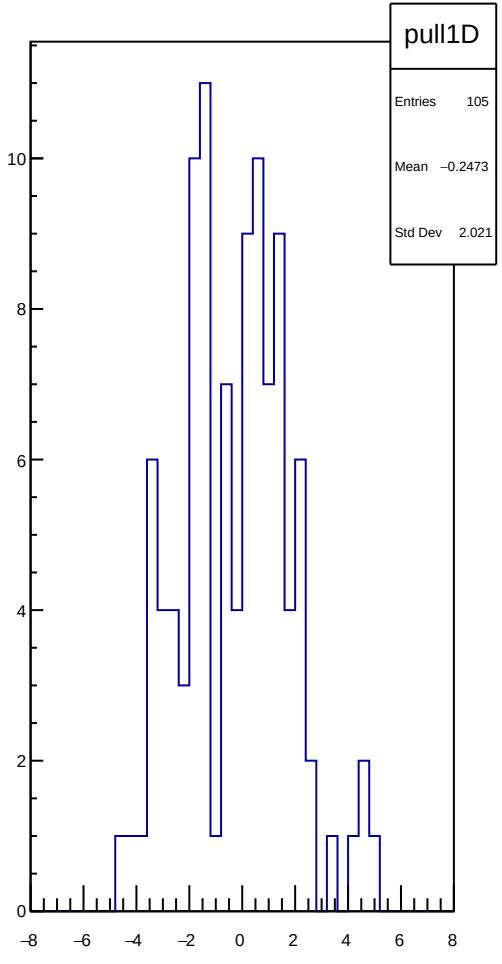

asym_bpm0l08WS_rms vs run
χ^2 / ndf 7.191e+04 / 104
p0 291 ± 0.2071
450
400
350
300
250

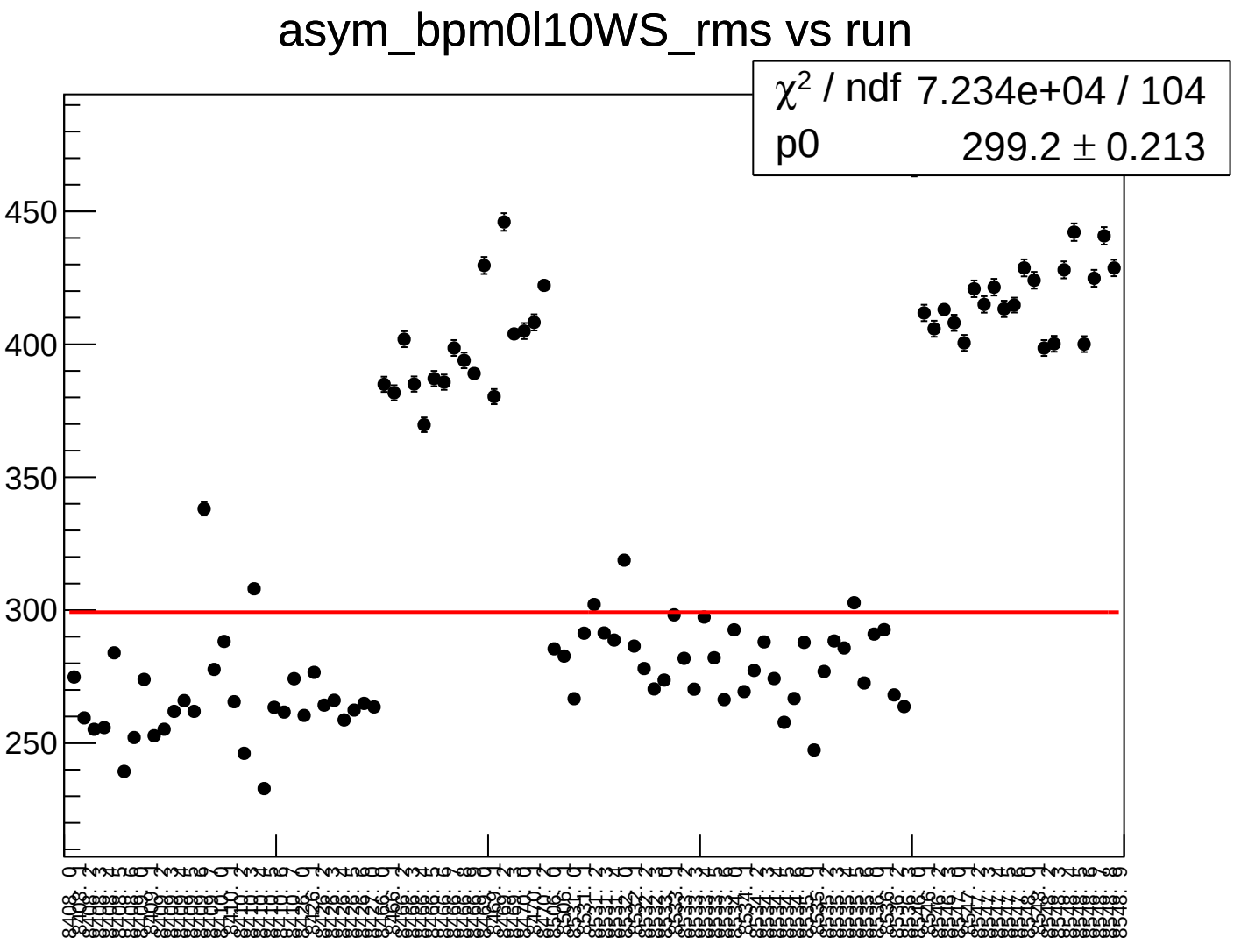

asym_bpm0l09WS_mean vs run
χ² / ndf 448.4 / 104
p0 −2388 ± 298.7
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 105
Mean 130.1
Std Dev 0
4
2
0
−2
−4

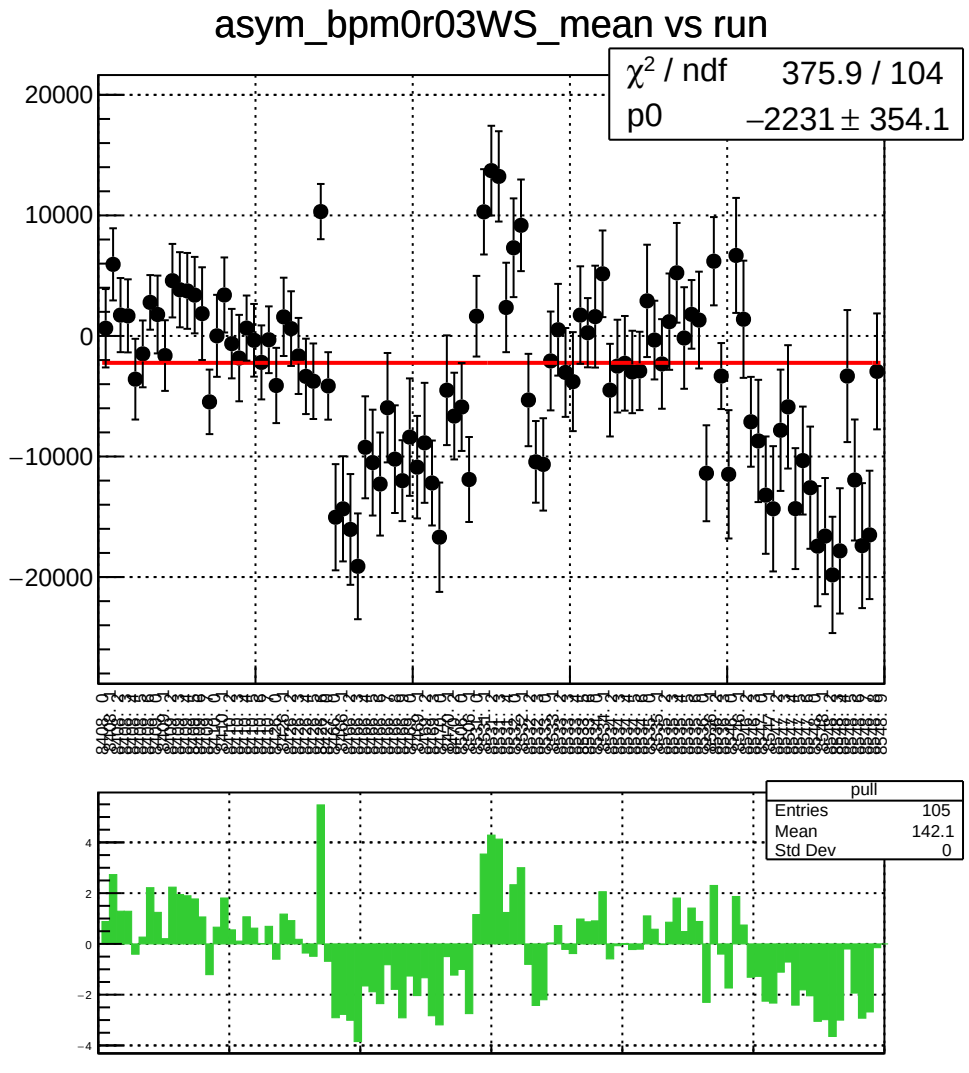

pull1D
Entries 105
Mean −0.2425
Std Dev 2.052
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

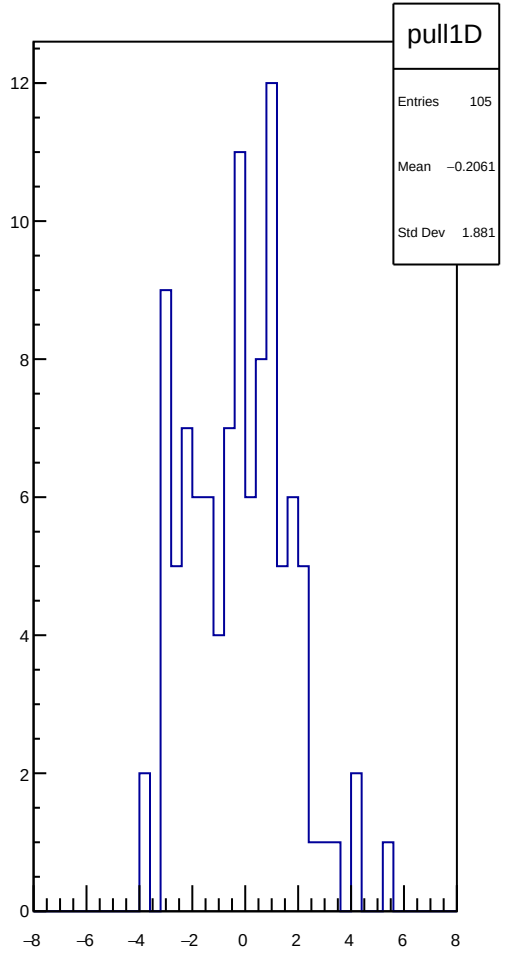

asym_bpm0l09WS_rms vs run
χ² / ndf 7.687e+04 / 104
p0 296.4 ± 0.2112
500
450
400
350
300
250

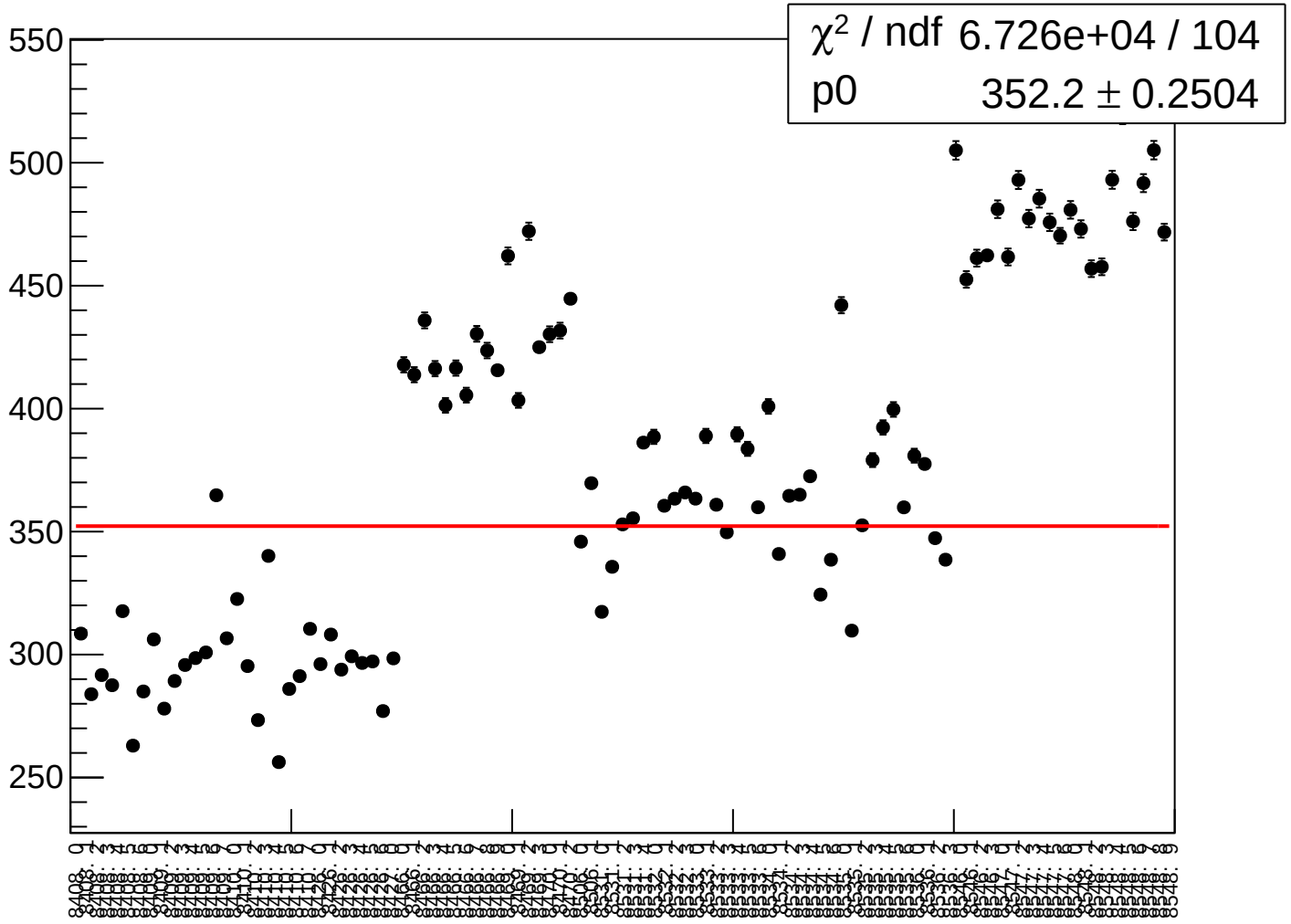

asym_bpm0l10WS_mean vs run
χ² / ndf 435.3 / 104
p0 −1970 ± 301.2
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 105
Mean 135
Std Dev 0
4
2
0
−2
−4

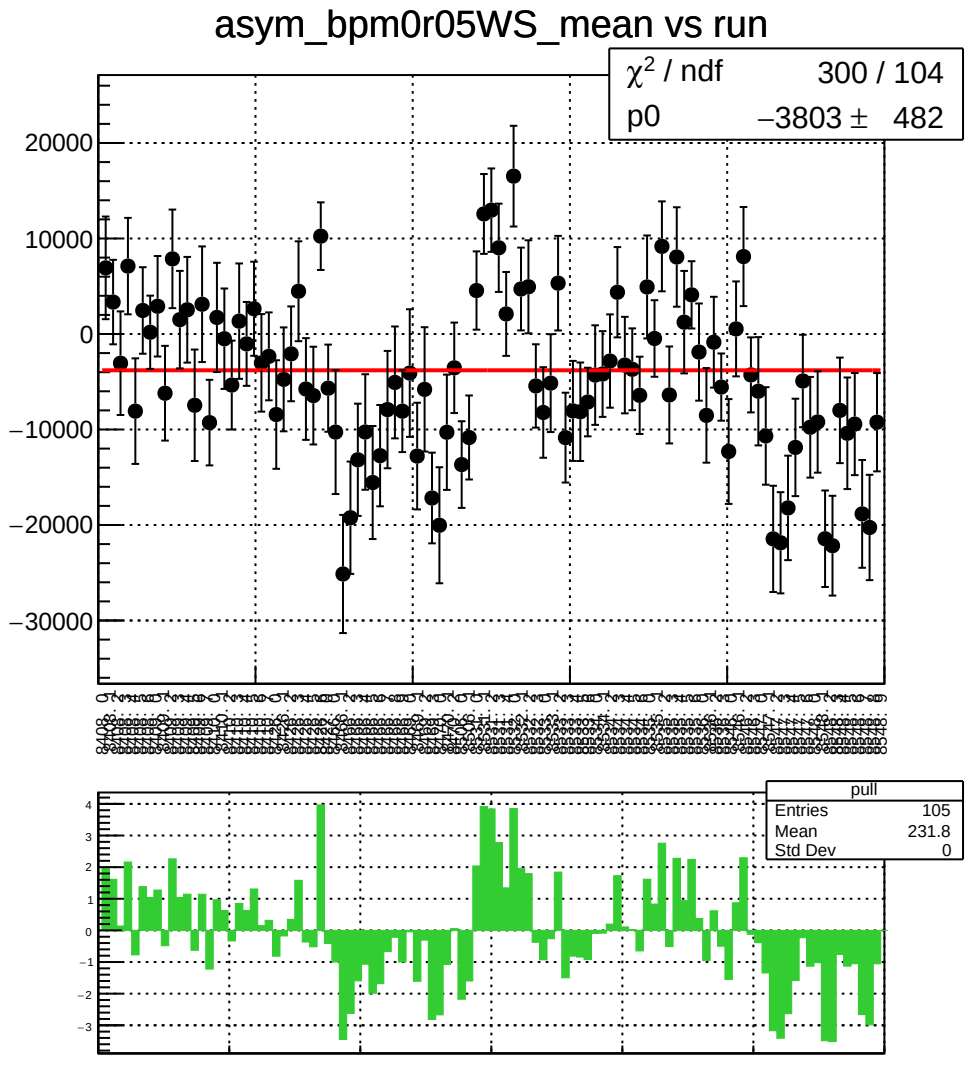

pull1D
Entries 105
Mean −0.2473
Std Dev 2.021
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

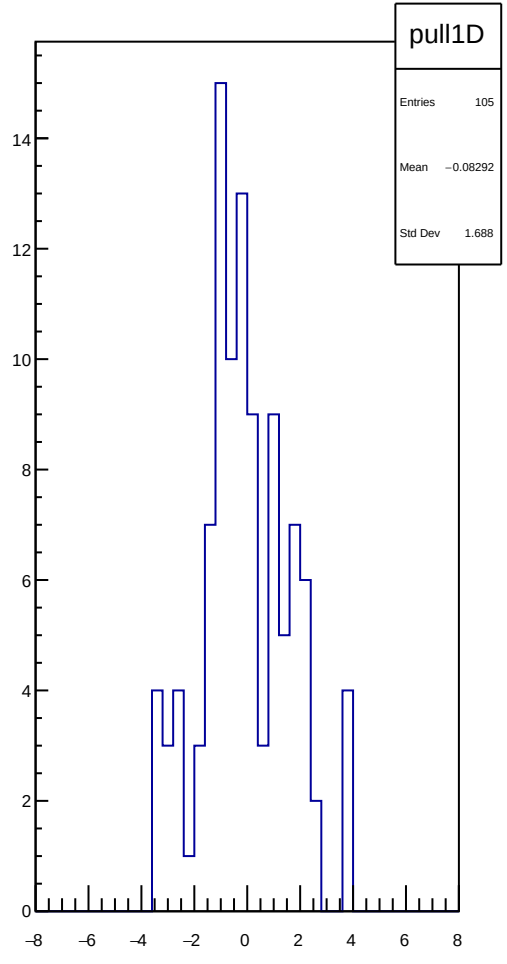

asym_bpm0l10WS_rms vs run
χ^2 / ndf 7.234e+04 / 104
p0 299.2 ± 0.213
450
400
350
300
250

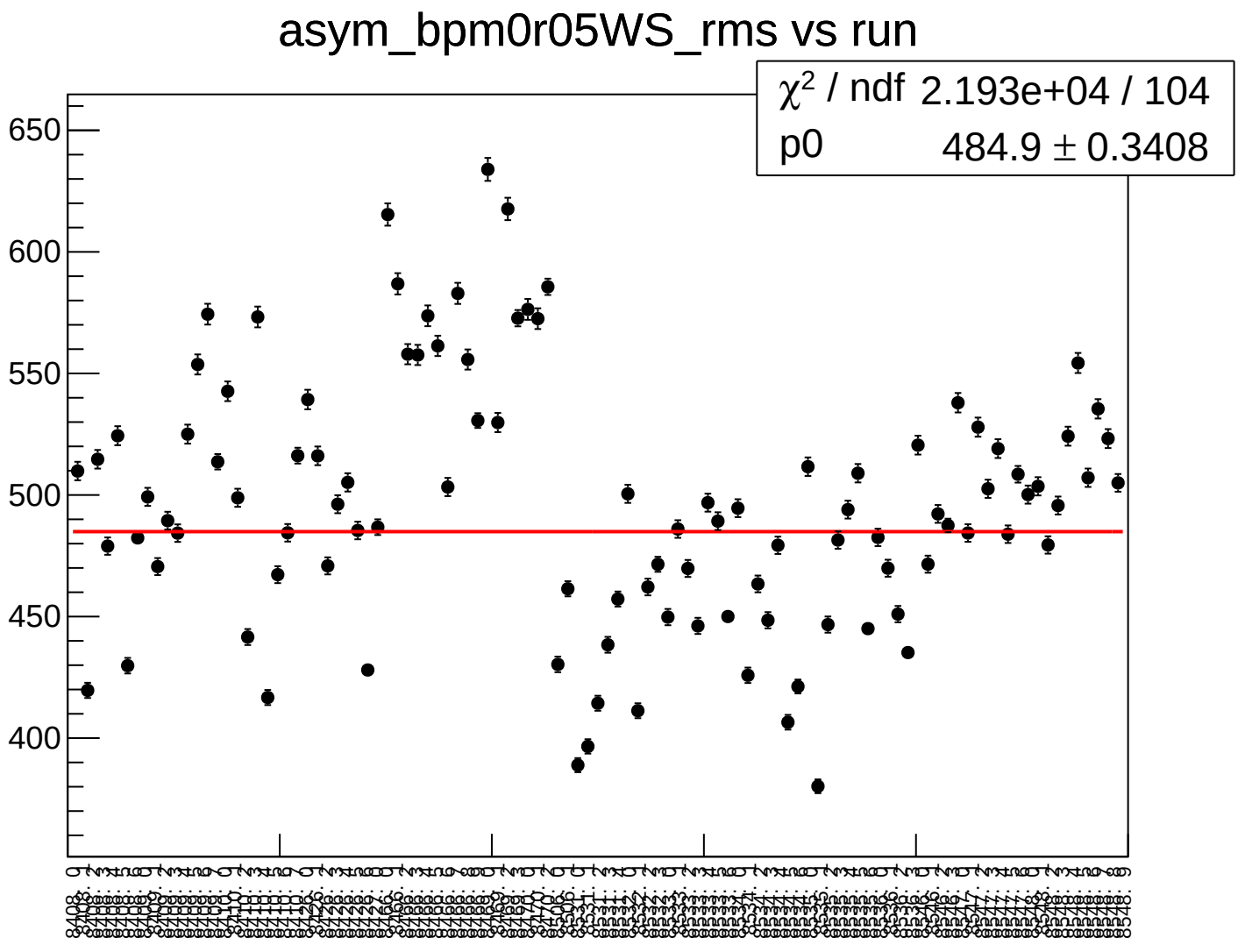

asym_bpm0r03WS_mean vs run
χ² / ndf 375.9 / 104
p0 −2231 ± 354.1
20000
10000
0
−10000
−20000
pull
Entries 105
Mean 142.1
Std Dev 0
4
2
0
−2
−4

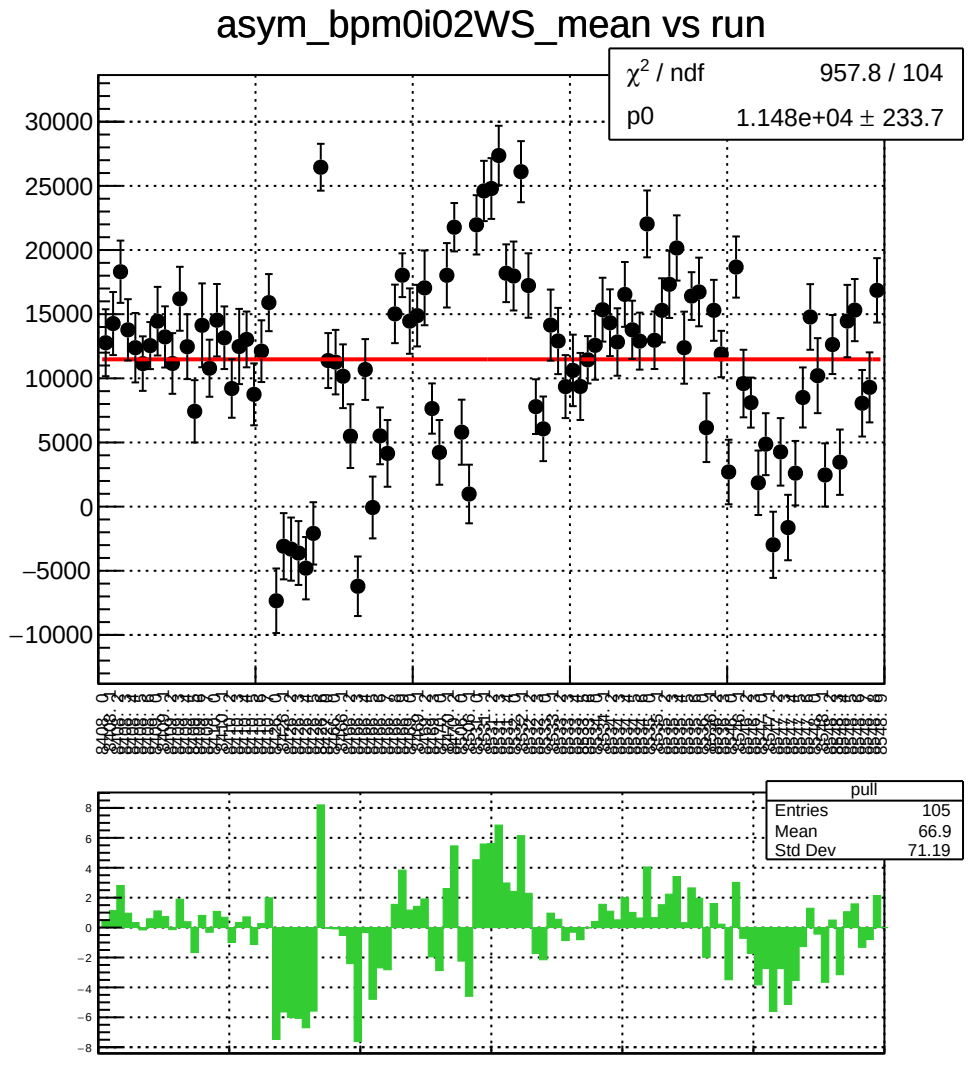

pull1D
Entries 105
Mean −0.2061
Std Dev 1.881
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

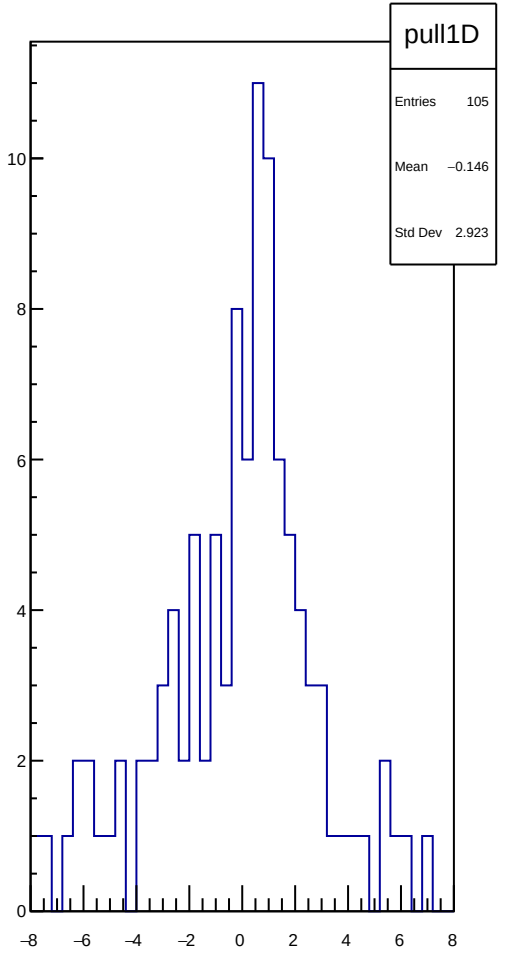

asym_bpm0r03WS_rms vs run
χ^2 / ndf 6.726e+04 / 104
p0 352.2 ± 0.2504
550
500
450
400
350
300
250

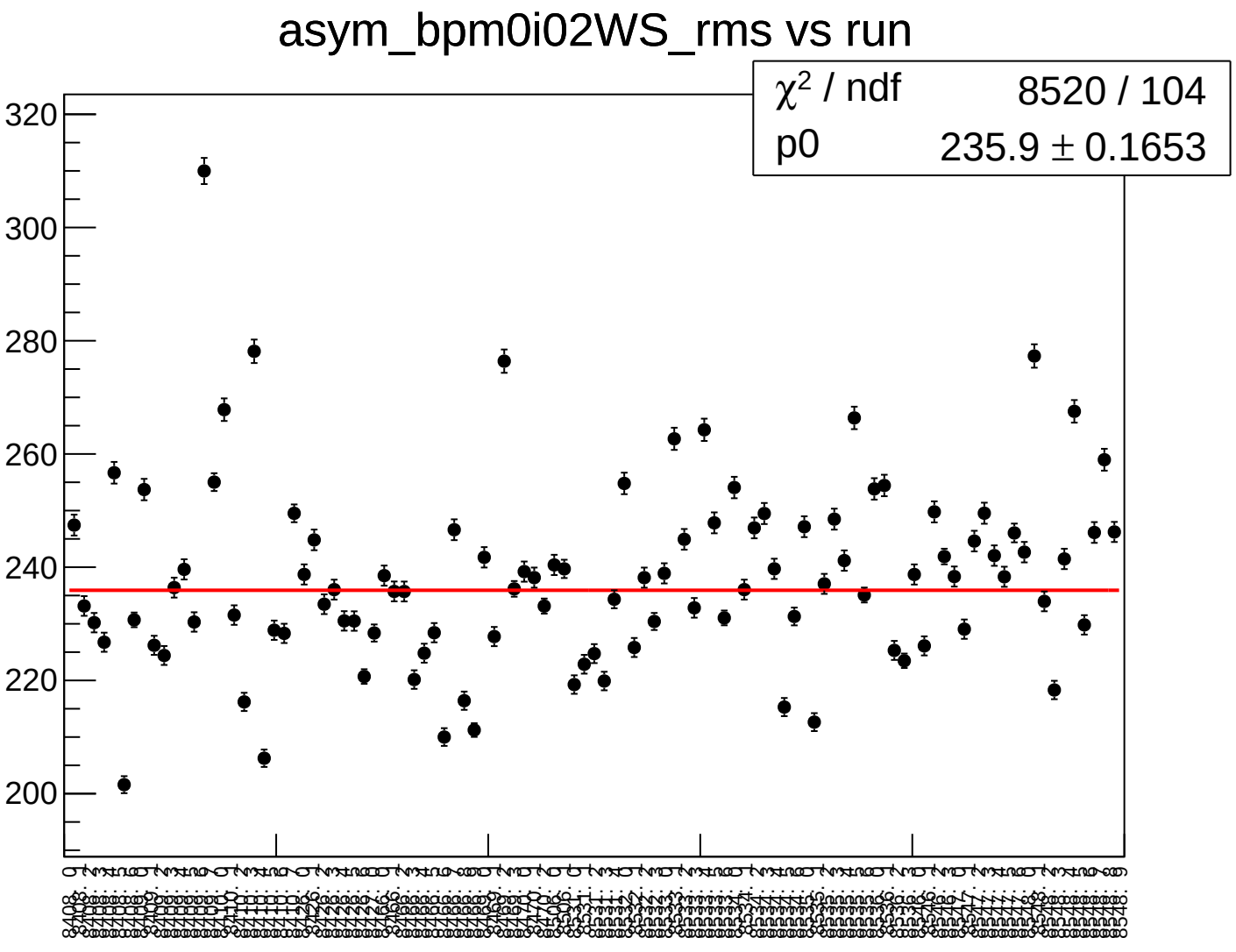

asym_bpm0r05WS_mean vs run
χ² / ndf 300 / 104
p0 −3803 ± 482
20000
10000
0
−10000
−20000
−30000
pull
Entries 105
Mean 231.8
Std Dev 0
4
3
2
1
0
−1
−2
−3

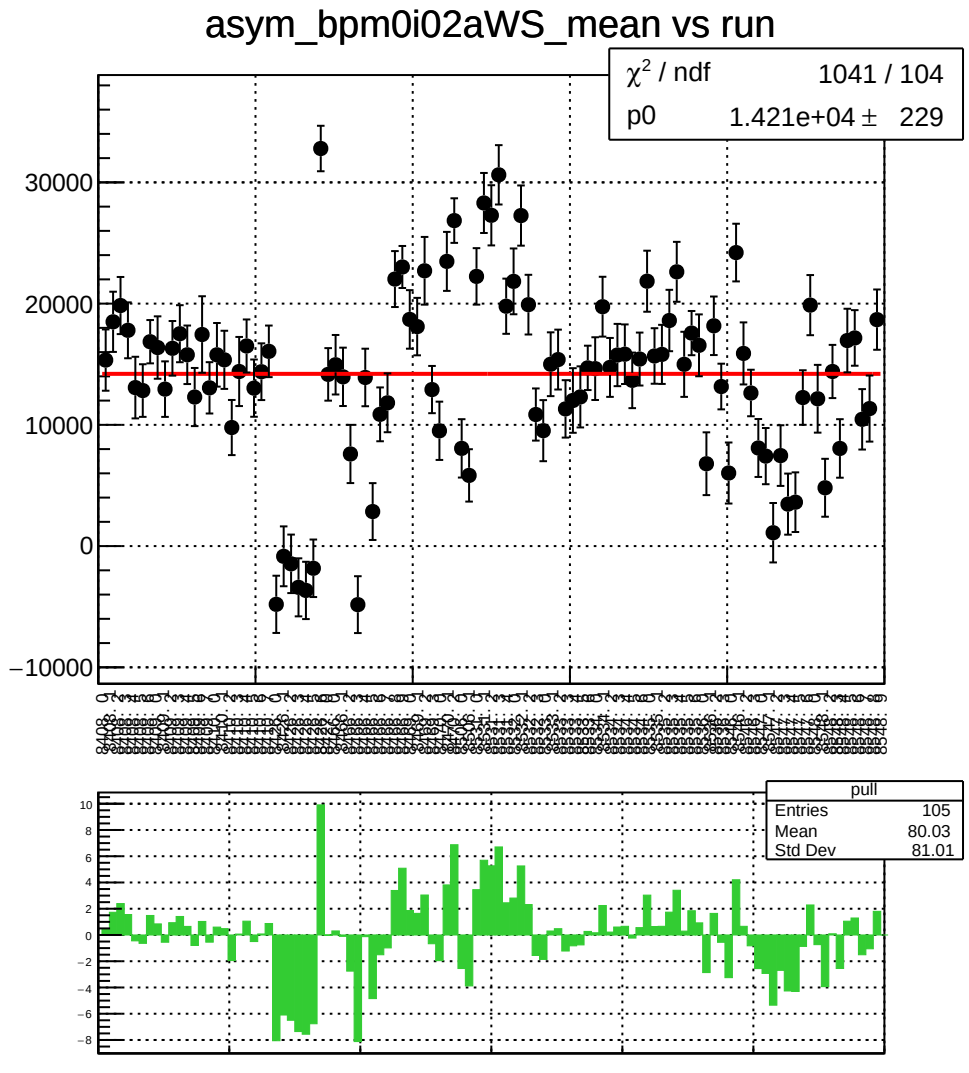

pull1D
Entries 105
Mean −0.08292
Std Dev 1.688
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

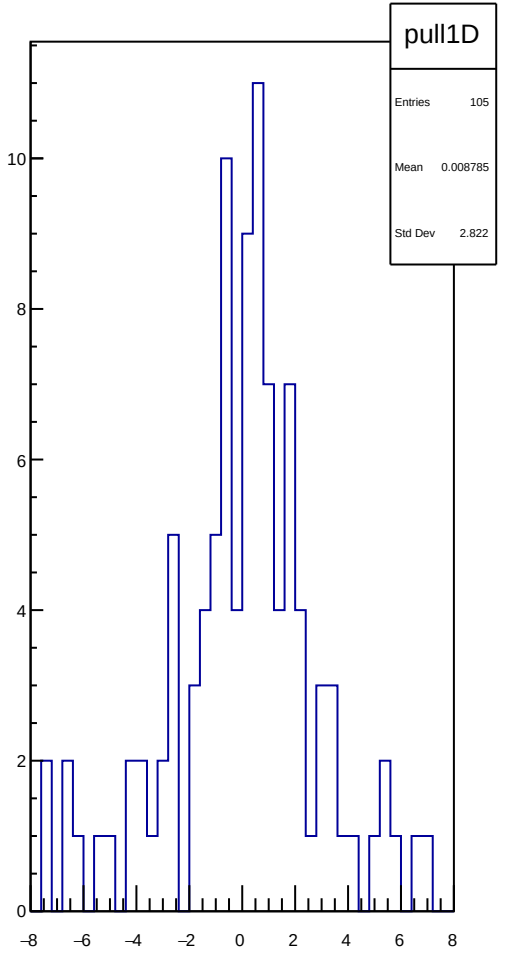

asym_bpm0r05WS_rms vs run
χ^2 / ndf 2.193e+04 / 104
p0 484.9 ± 0.3408
650
600
550
500
450
400

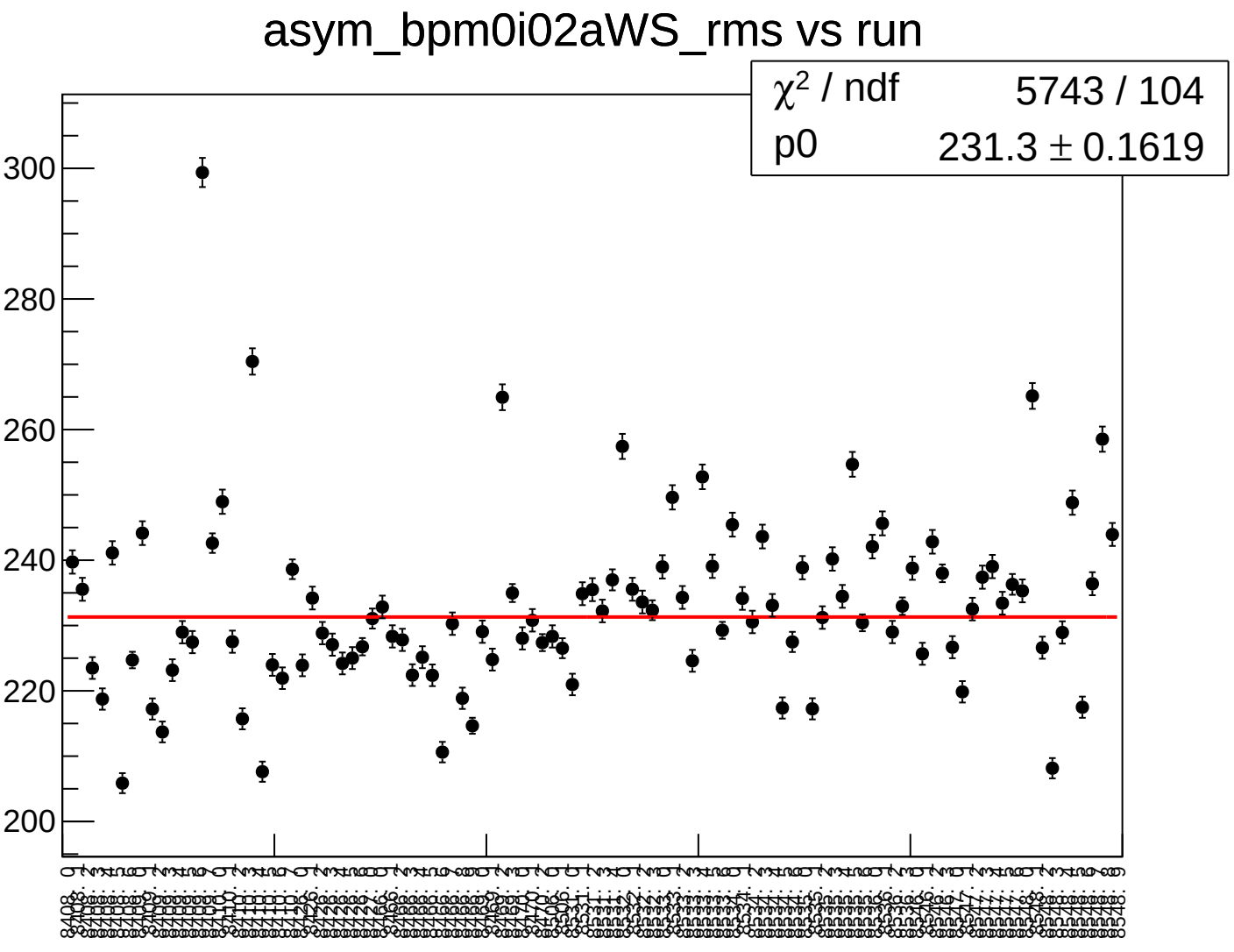

asym_bpm0i02WS_mean vs run
χ² / ndf 957.8 / 104
p0 1.148e+04 ± 233.7
30000
25000
20000
15000
10000
5000
0
−5000
−10000
pull
Entries 105
Mean 66.9
Std Dev 71.19
8
6
4
2
0
−2
−4
−6
−8

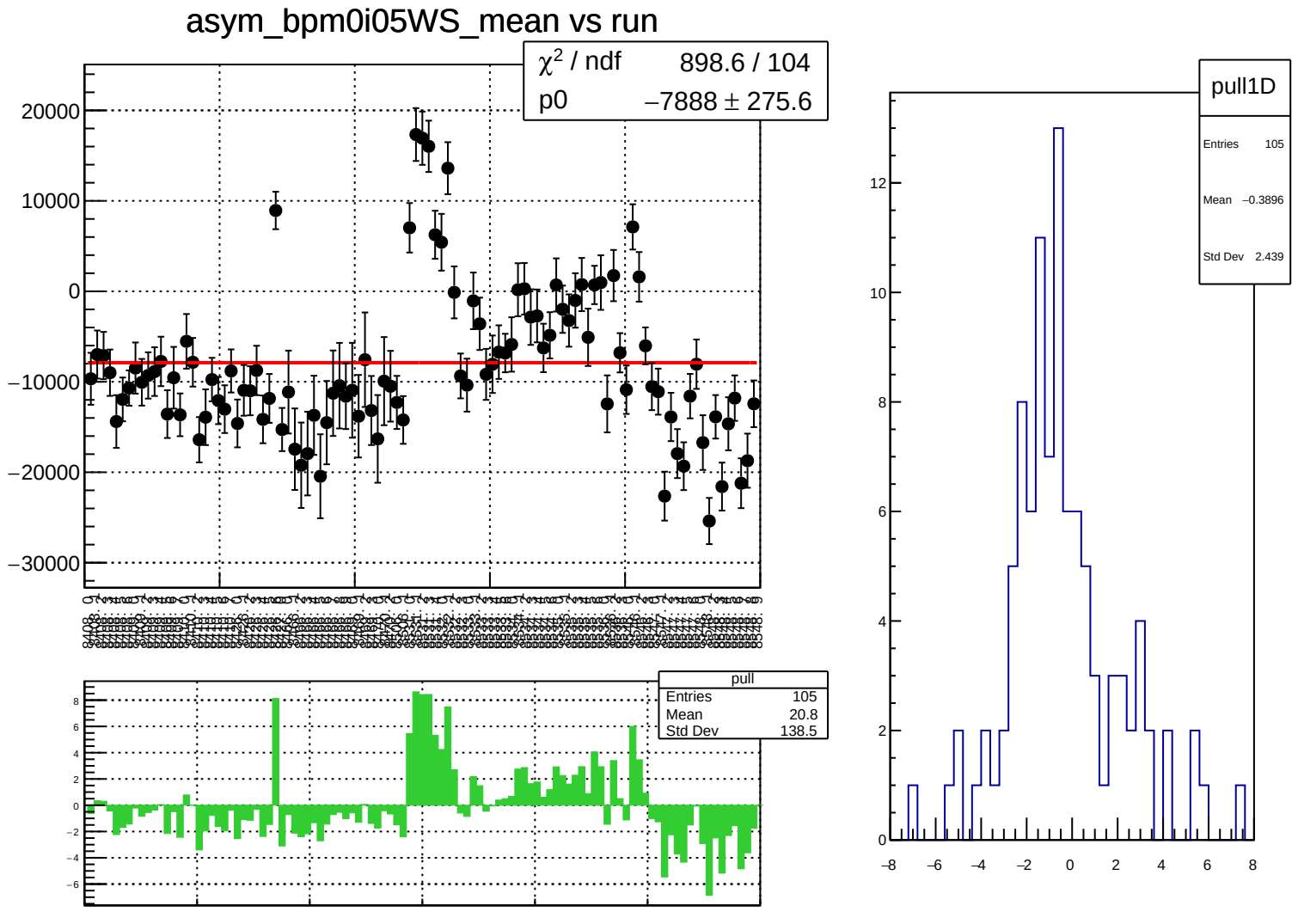

pull1D
Entries 105
Mean −0.146
Std Dev 2.923
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

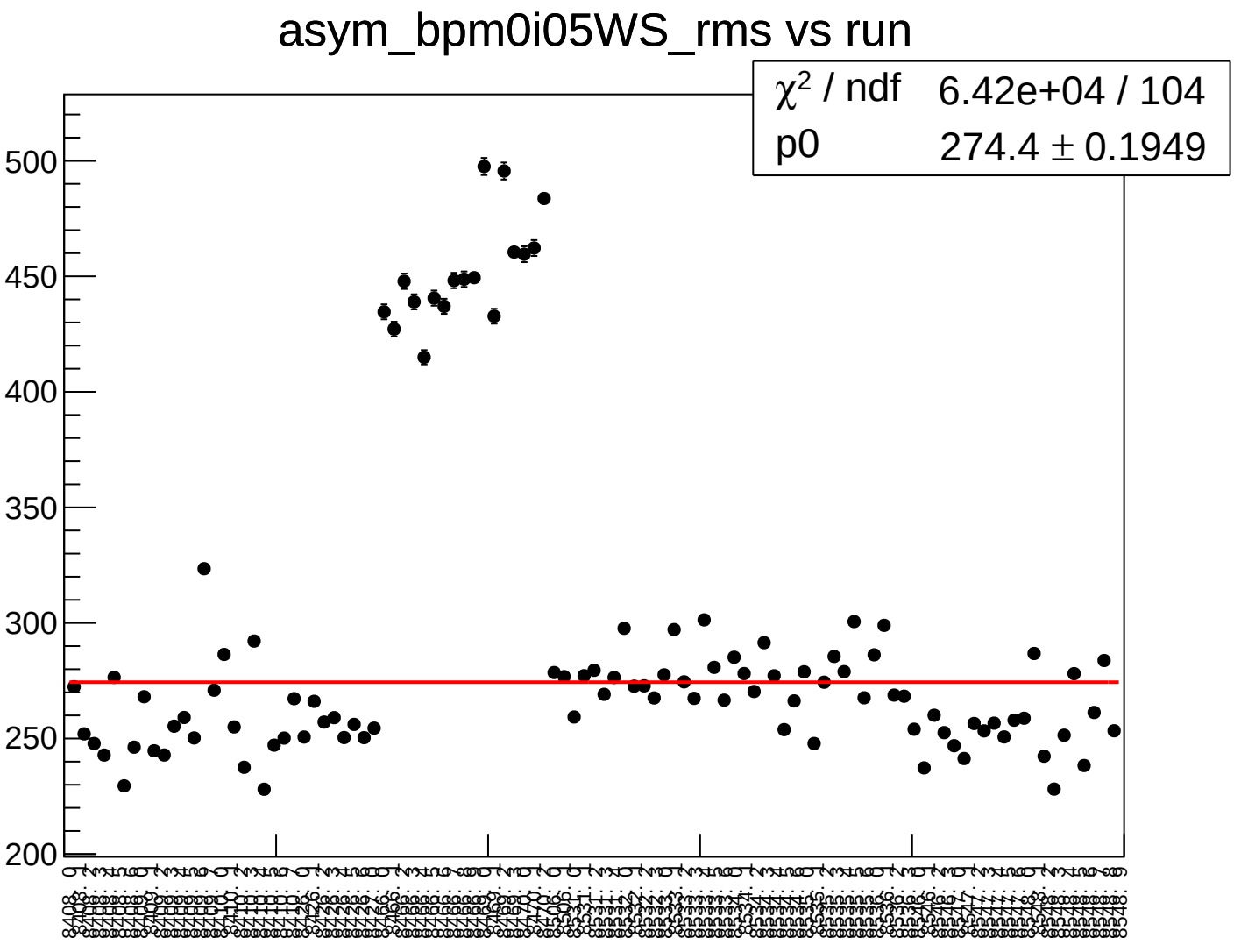

asym_bpm0i02WS_rms vs run
χ^2 / ndf 8520 / 104
p0 235.9 ± 0.1653
320
300
280
260
240
220
200

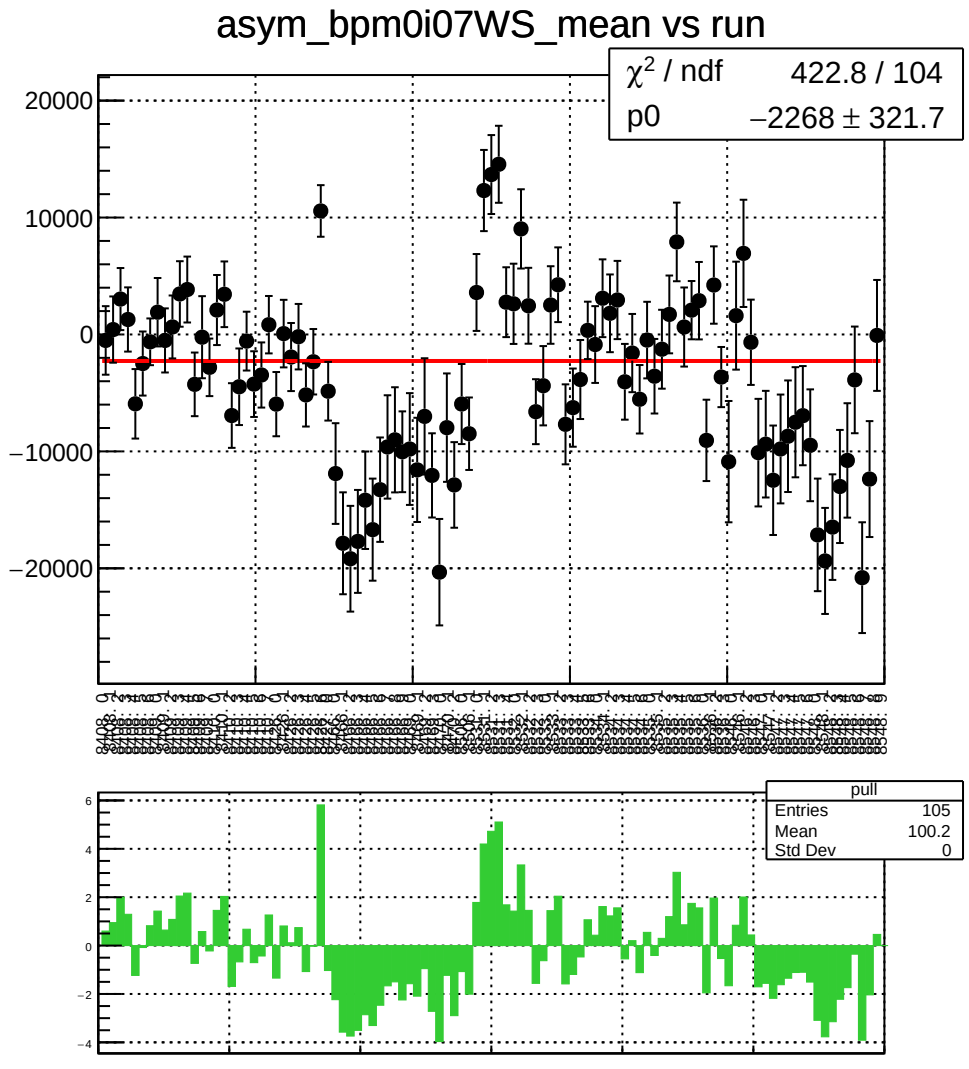

asym_bpm0i02aWS_mean vs run
χ² / ndf 1041 / 104
p0 1.421e+04 ± 229
30000
20000
10000
0
−10000
pull
Entries 105
Mean 80.03
Std Dev 81.01
10
8
6
4
2
0
−2
−4
−6
−8

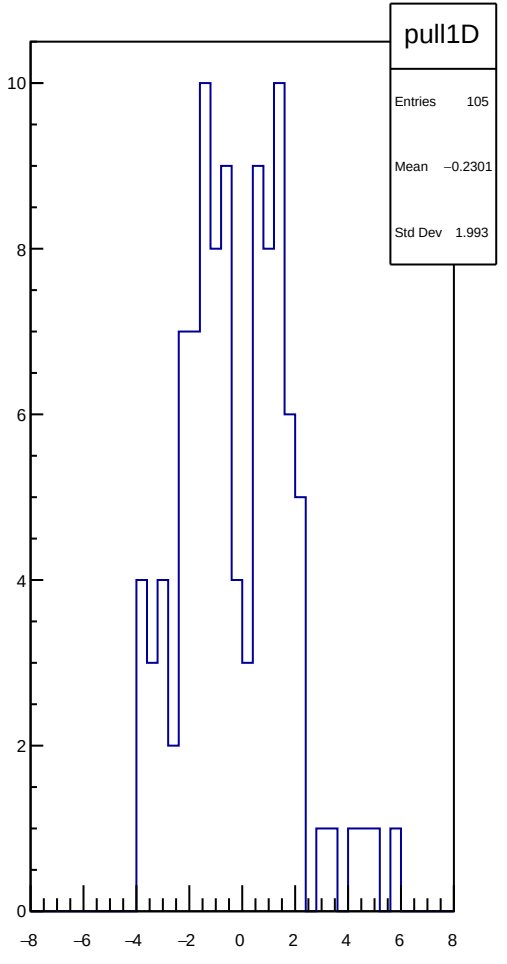

pull1D
Entries 105
Mean 0.008785
Std Dev 2.822
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

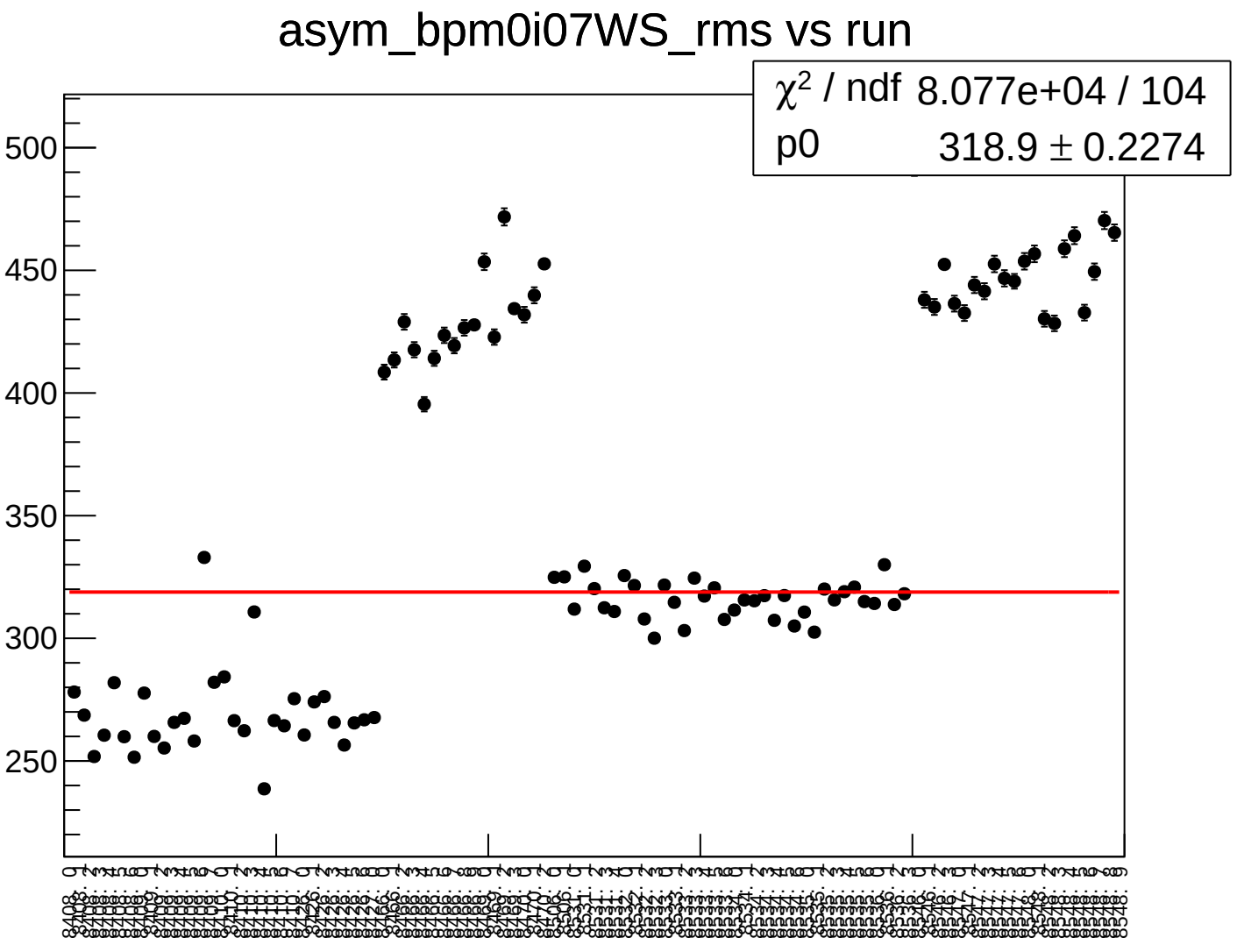

asym_bpm0i02aWS_rms vs run
χ² / ndf 5743 / 104
p0 231.3 ± 0.1619
300
280
260
240
220
200

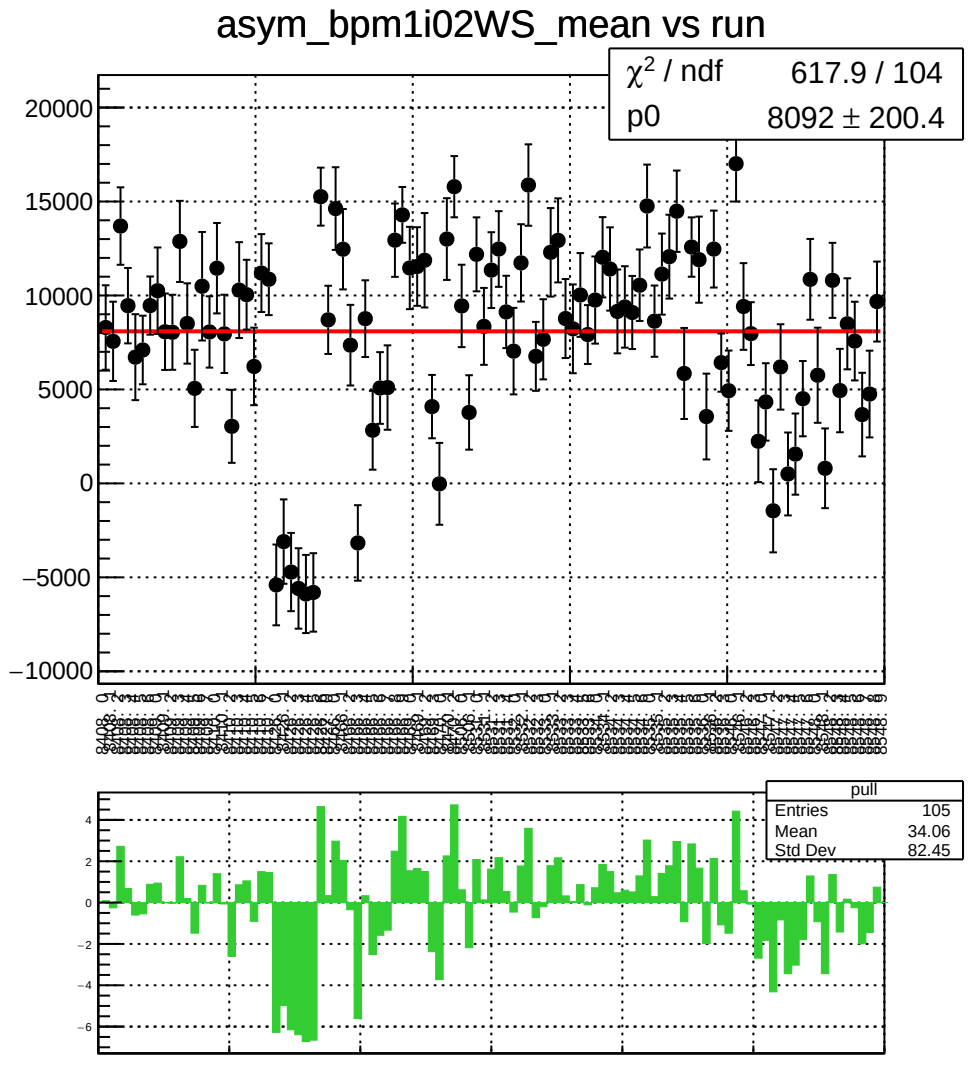

asym_bpm0i05WS_mean vs run
χ² / ndf 898.6 / 104
p0 −7888 ± 275.6
20000
10000
0
−10000
−20000
−30000
pull
Entries 105
Mean 20.8
Std Dev 138.5
8
6
4
2
0
−2
−4
−6
pull1D
Entries 105
Mean −0.3896
Std Dev 2.439
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

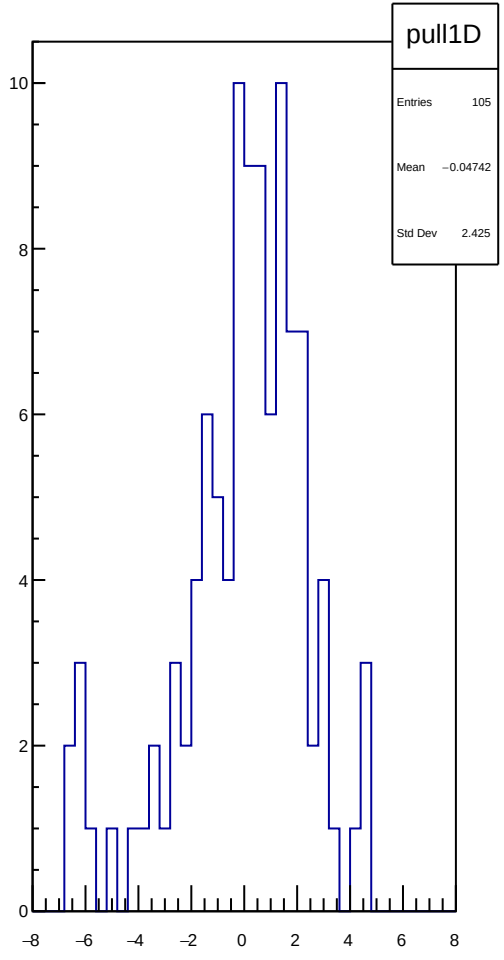

asym_bpm0i05WS_rms vs run
χ^2 / ndf 6.42e+04 / 104
p0 274.4 ± 0.1949
500
450
400
350
300
250
200

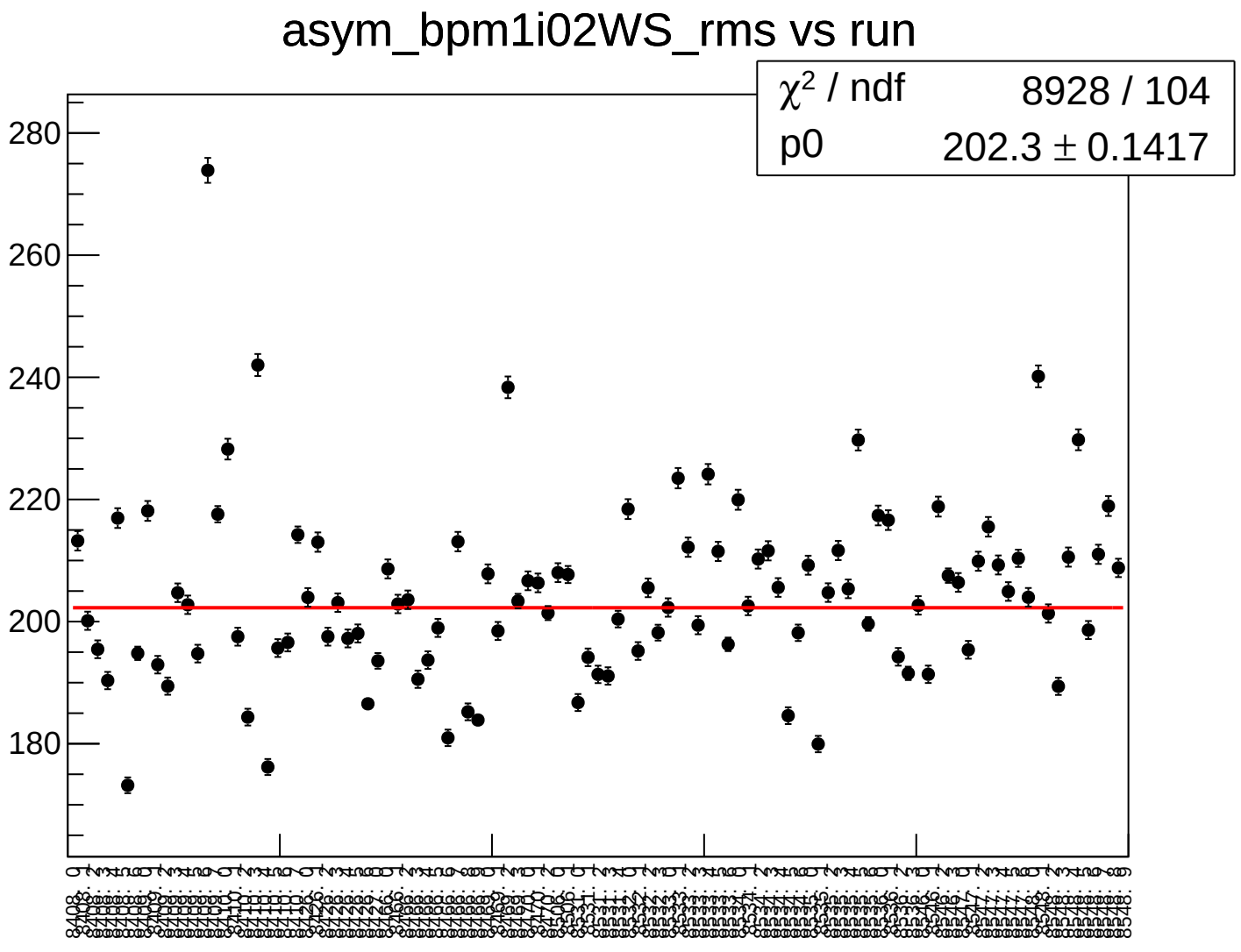

asym_bpm0i07WS_mean vs run
χ² / ndf 422.8 / 104
p0 −2268 ± 321.7
20000
10000
0
−10000
−20000
pull
Entries 105
Mean 100.2
Std Dev 0
6
4
2
0
−2
−4

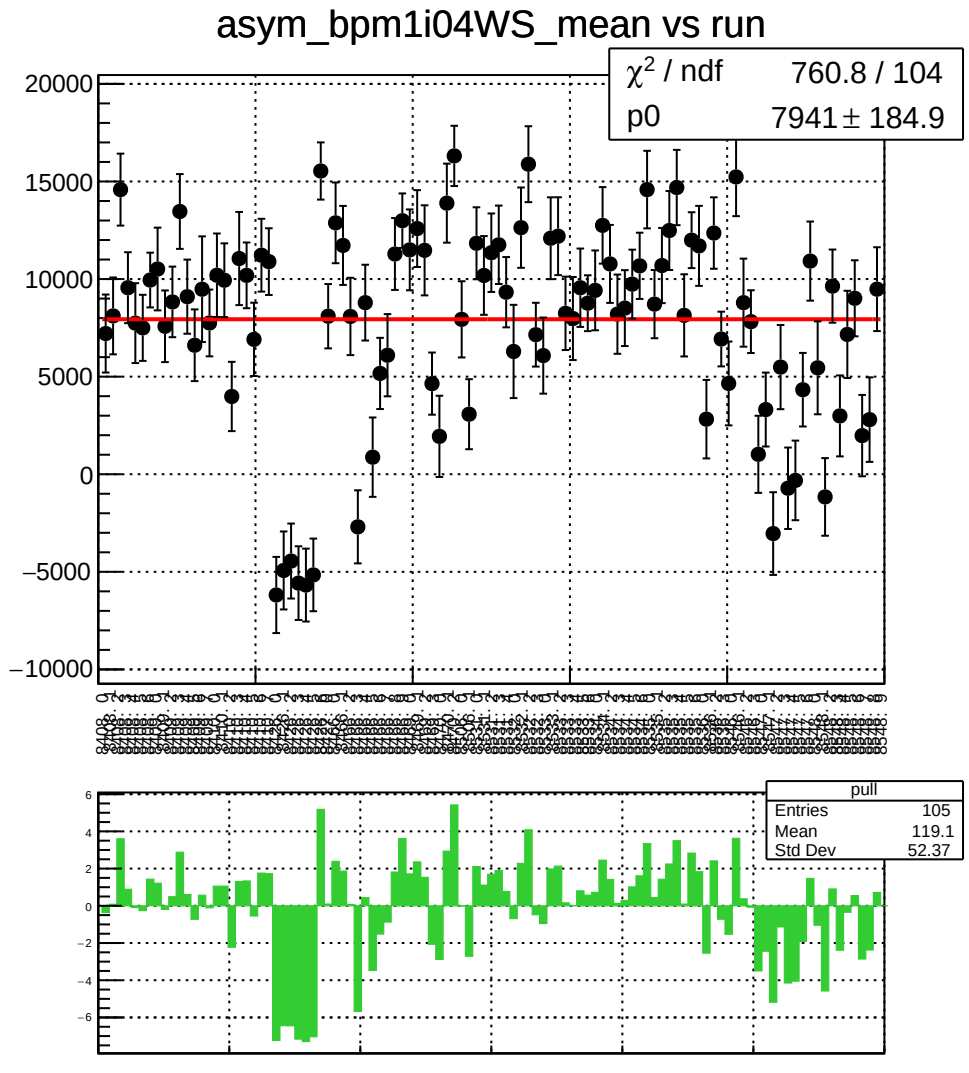

pull1D
Entries 105
Mean −0.2301
Std Dev 1.993
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

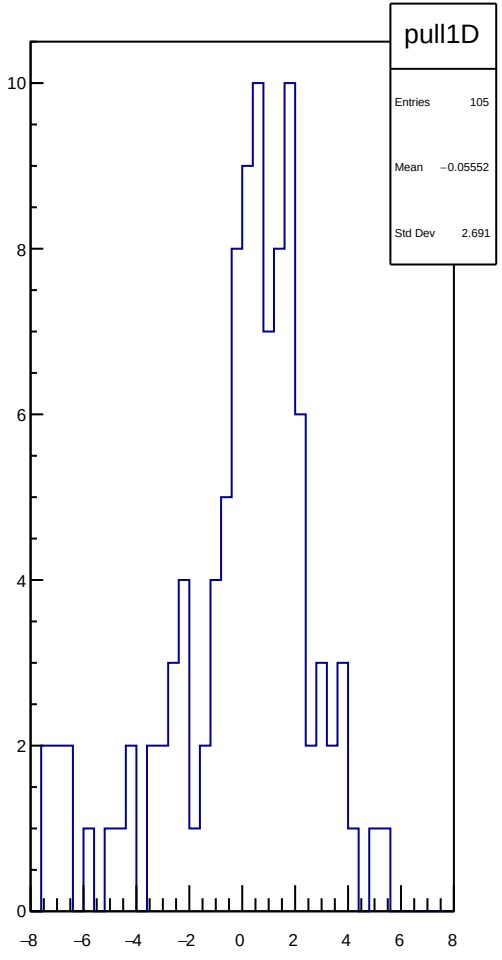

asym_bpm0i07WS_rms vs run
χ² / ndf 8.077e+04 / 104
p0 318.9 ± 0.2274
500
450
400
350
300
250

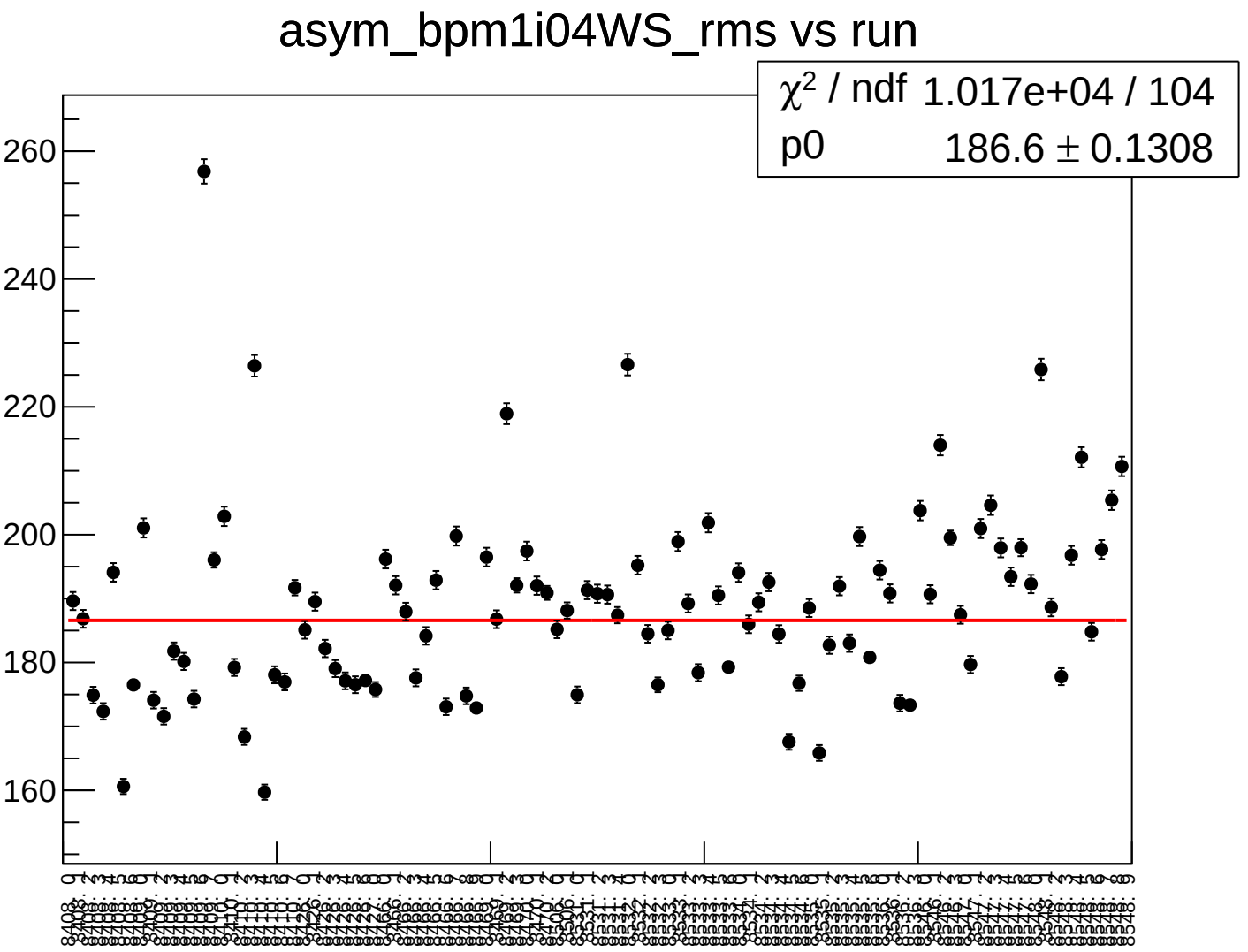

asym_bpm1i02WS_mean vs run
χ² / ndf 617.9 / 104
p0 8092 ± 200.4
20000
15000
10000
5000
0
−5000
−10000
pull
Entries 105
Mean 34.06
Std Dev 82.45
4
2
0
−2
−4
−6

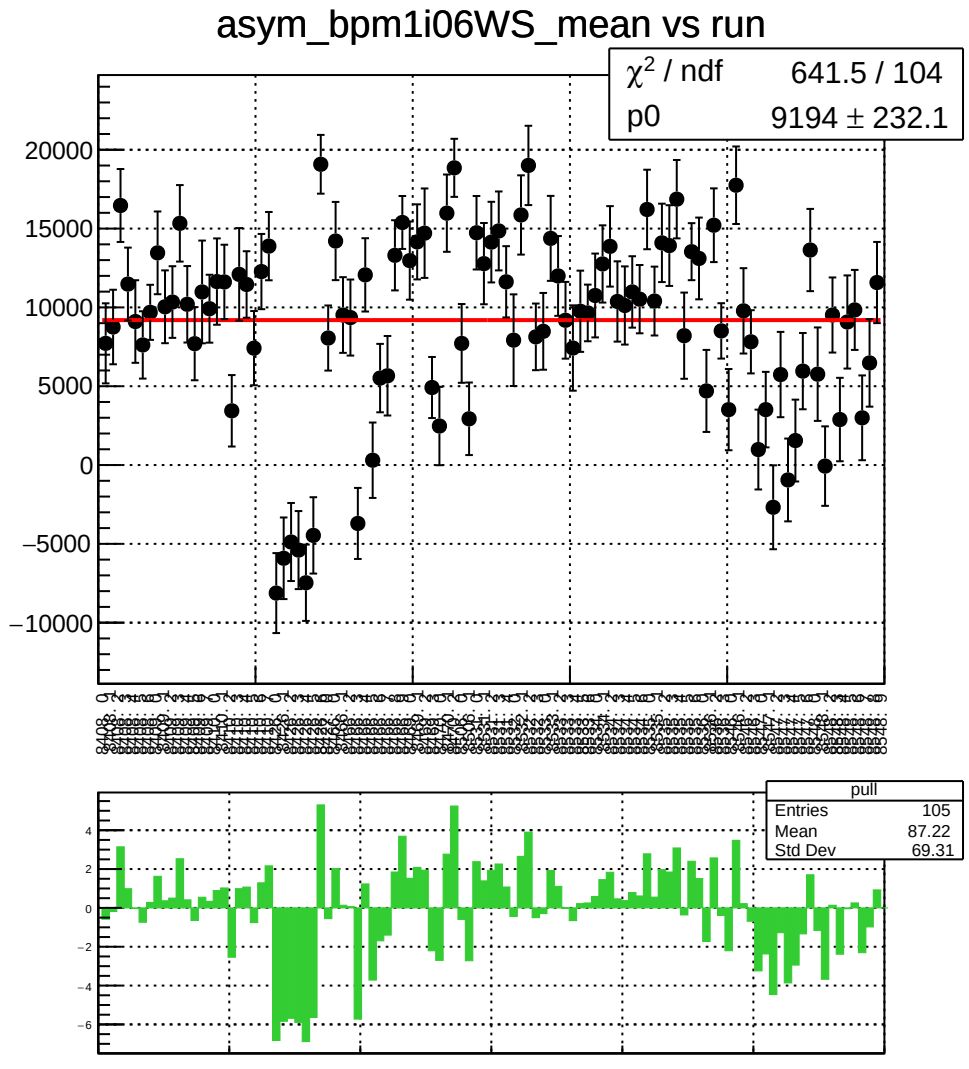

pull1D
Entries 105
Mean −0.04742
Std Dev 2.425
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

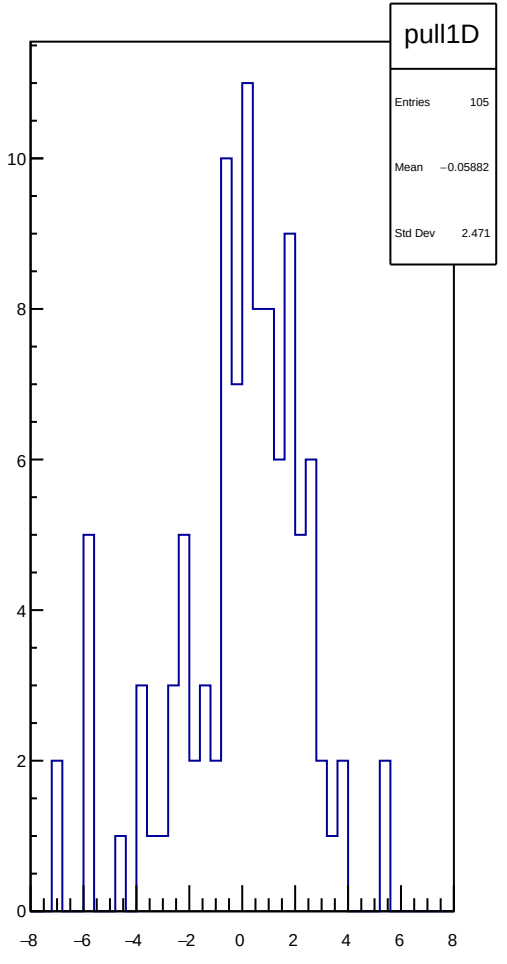

asym_bpm1i02WS_rms vs run
χ^2 / ndf 8928 / 104
p0 202.3 ± 0.1417
280
260
240
220
200
180

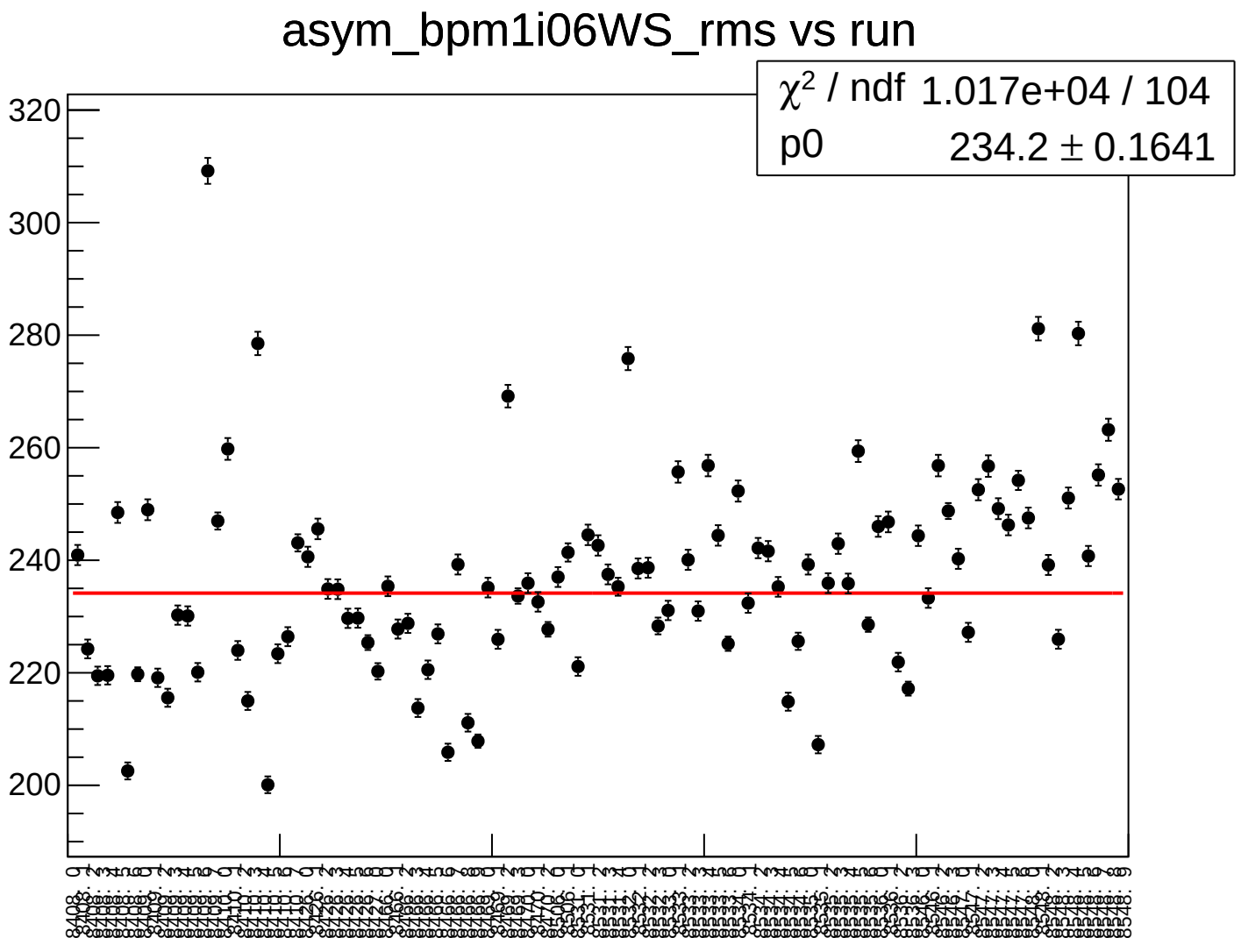

asym_bpm1i04WS_mean vs run
χ² / ndf 760.8 / 104
p0 7941 ± 184.9
20000
15000
10000
5000
0
−5000
−10000
pull
Entries 105
Mean 119.1
Std Dev 52.37
6
4
2
0
−2
−4
−6

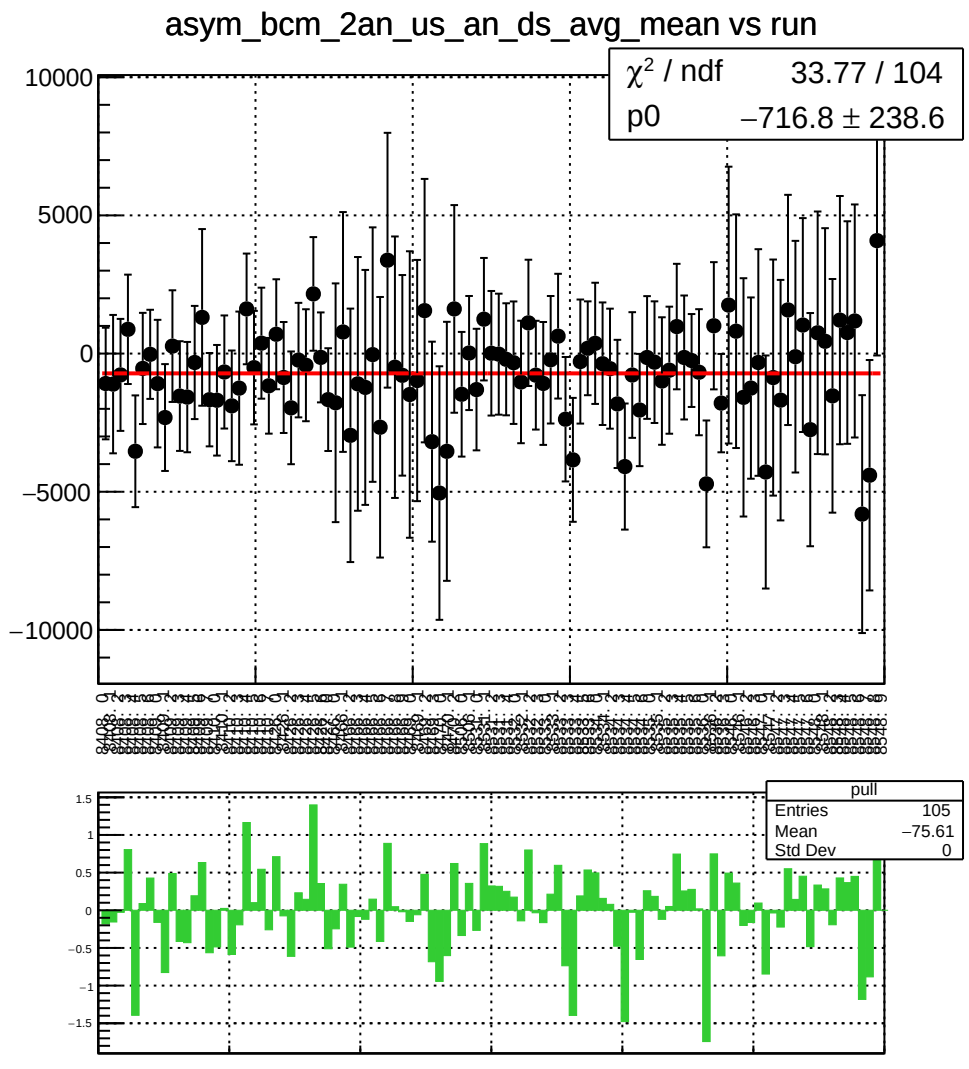

pull1D
Entries 105
Mean −0.05552
Std Dev 2.691
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

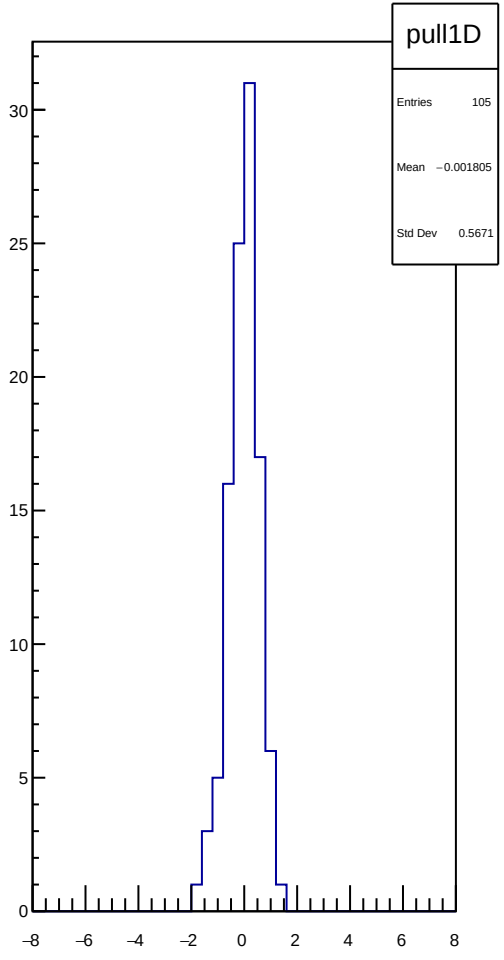

asym_bpm1i04WS_rms vs run
χ² / ndf 1.017e+04 / 104
p0 186.6 ± 0.1308
260
240
220
200
180
160

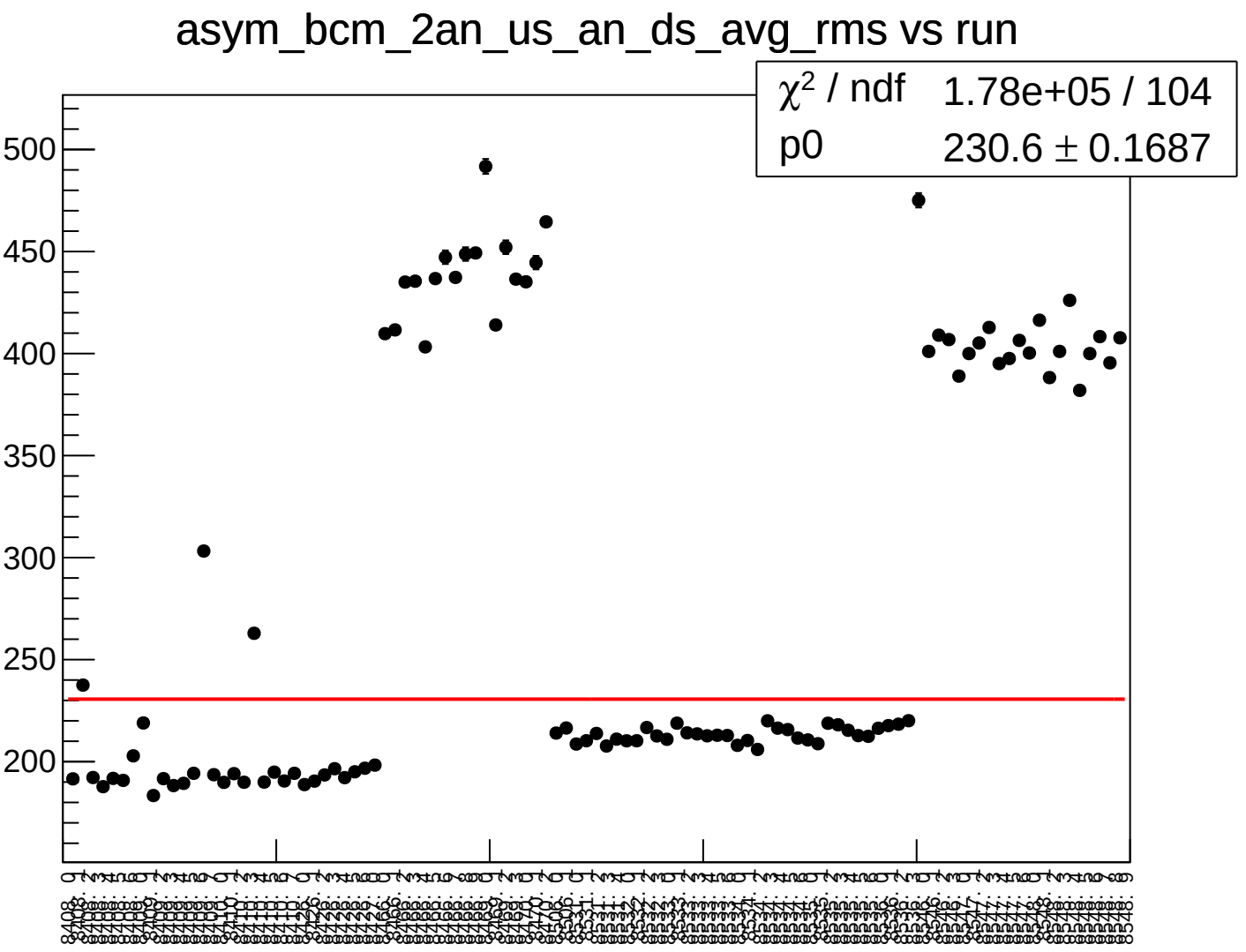

asym_bpm1i06WS_mean vs run
χ² / ndf 641.5 / 104
p0 9194 ± 232.1
20000
15000
10000
5000
0
−5000
−10000
pull
Entries 105
Mean 87.22
Std Dev 69.31
4
2
0
−2
−4
−6

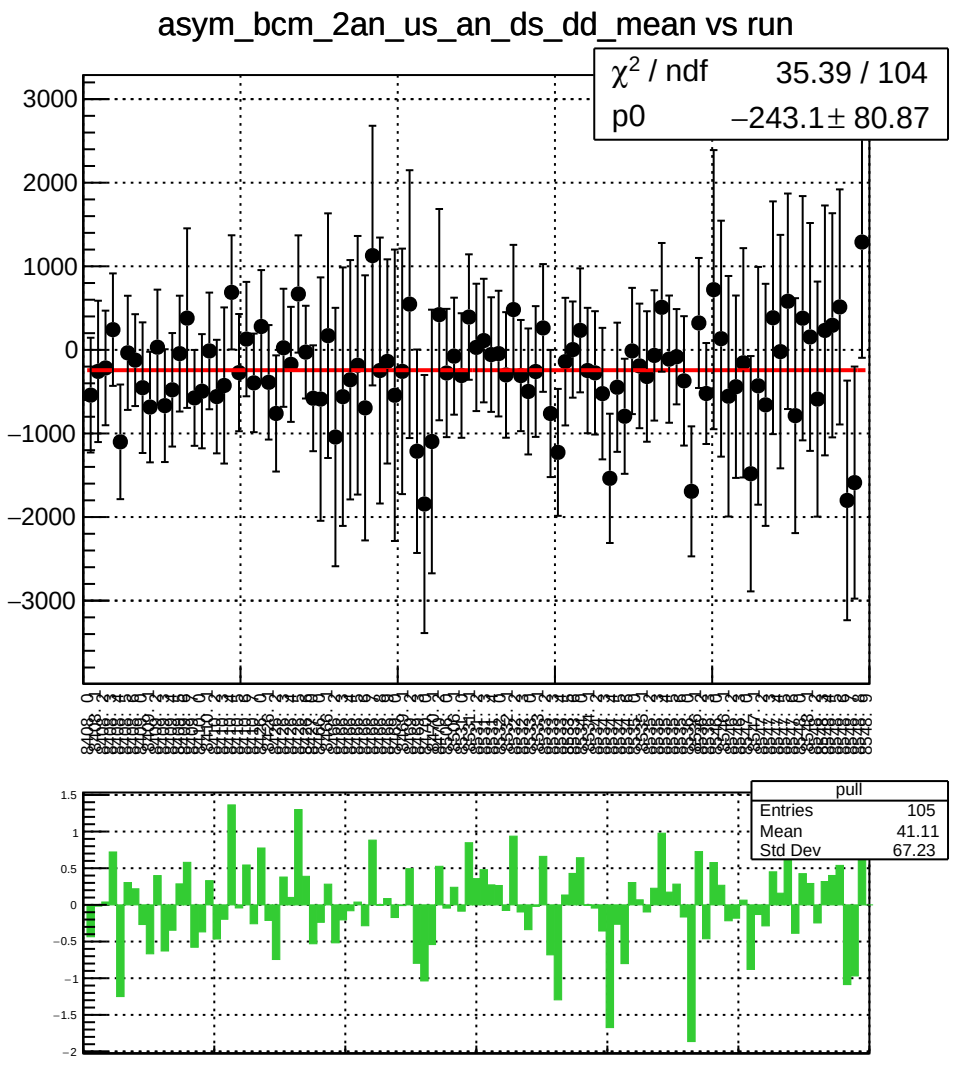

pull1D
Entries 105
Mean −0.05882
Std Dev 2.471
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

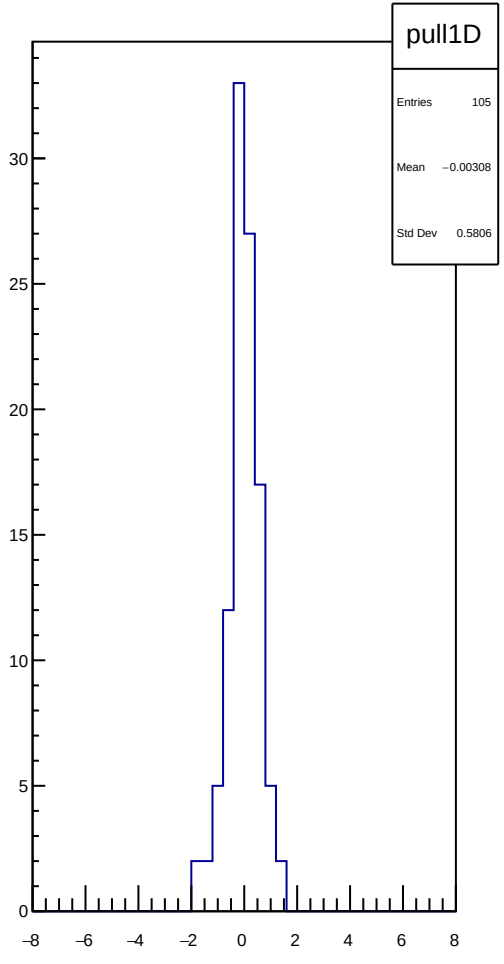

asym_bpm1i06WS_rms vs run
χ² / ndf 1.017e+04 / 104
p0 234.2 ± 0.1641
320
300
280
260
240
220
200

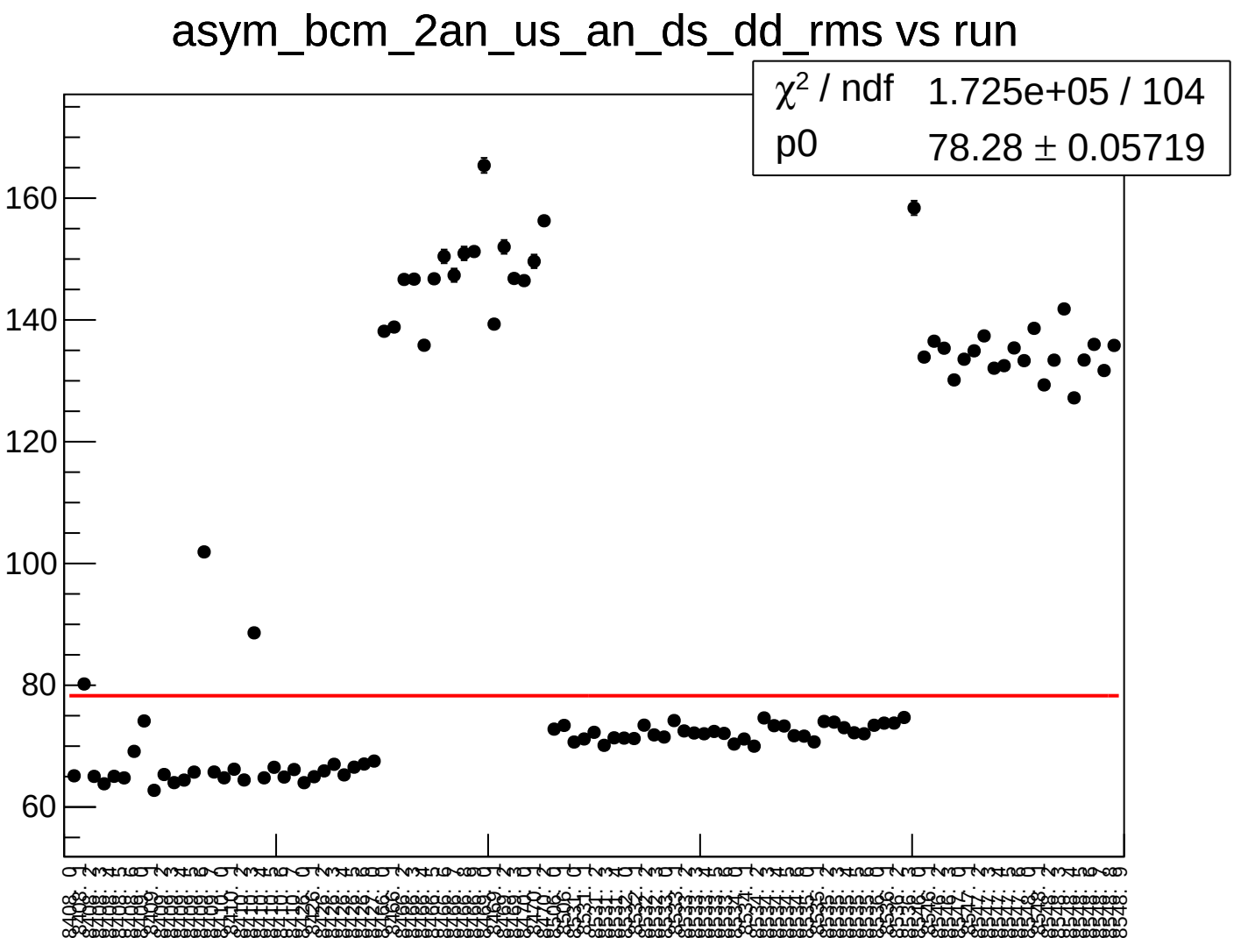

asym_bcm_2an_us_an_ds_avg_mean vs run
χ² / ndf 33.77 / 104
p0 −716.8 ± 238.6
10000
5000
0
−5000
−10000
pull
Entries 105
Mean −75.61
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

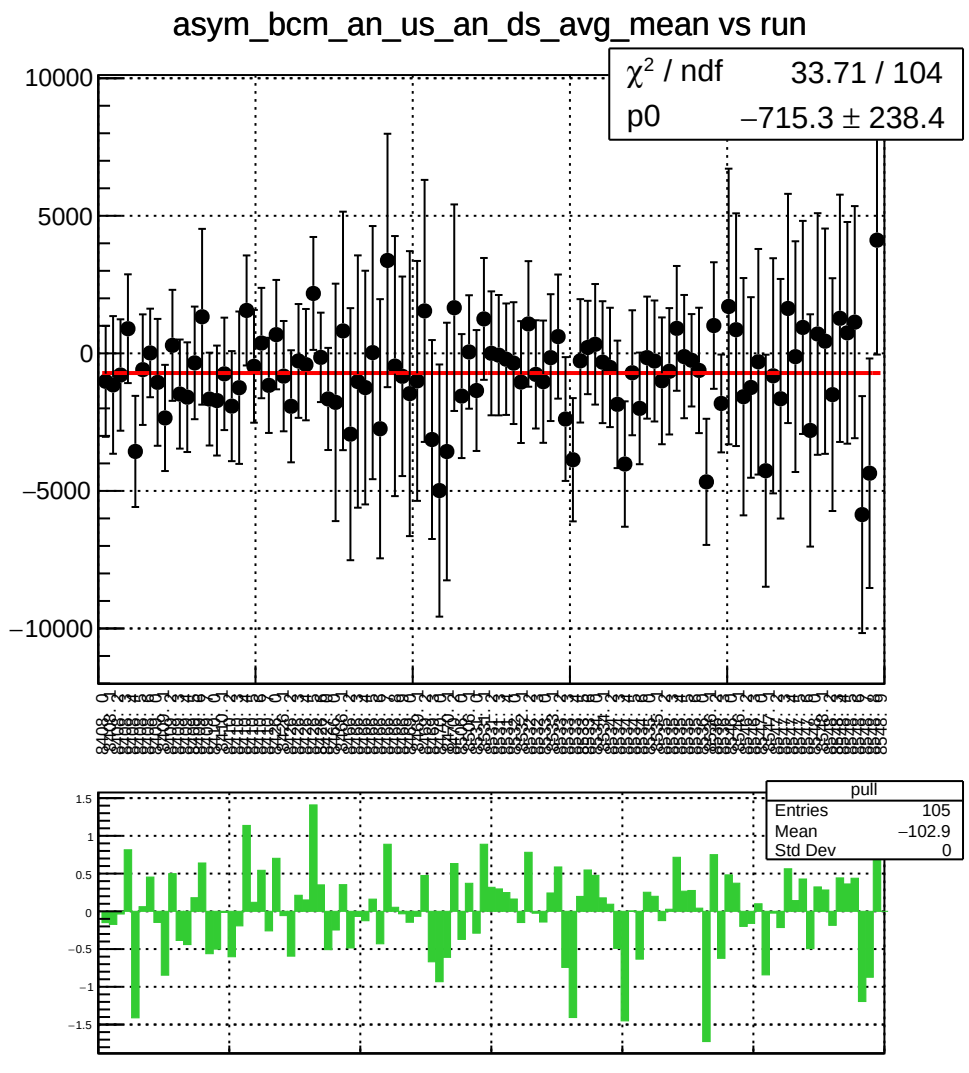

pull1D
Entries 105
Mean −0.001805
Std Dev 0.5671
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

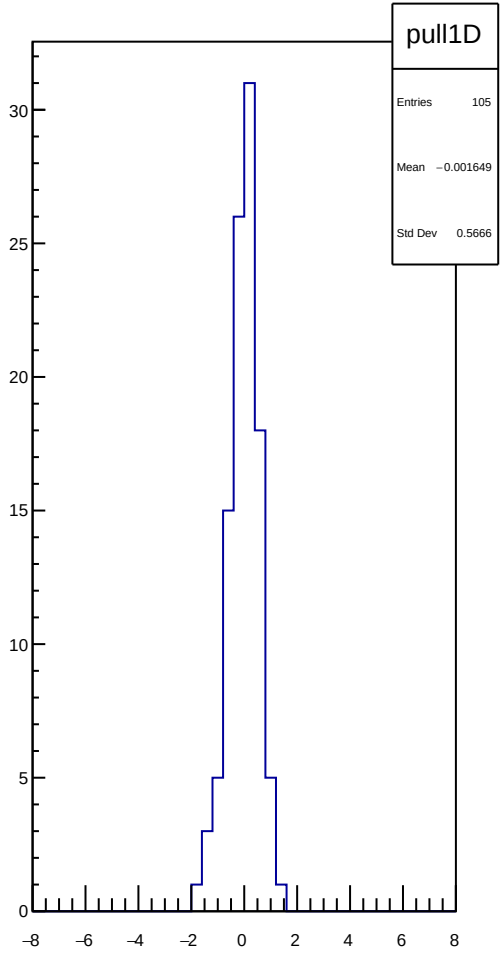

asym_bcm_2an_us_an_ds_avg_rms vs run
χ² / ndf 1.78e+05 / 104
p0 230.6 ± 0.1687
500
450
400
350
300
250
200

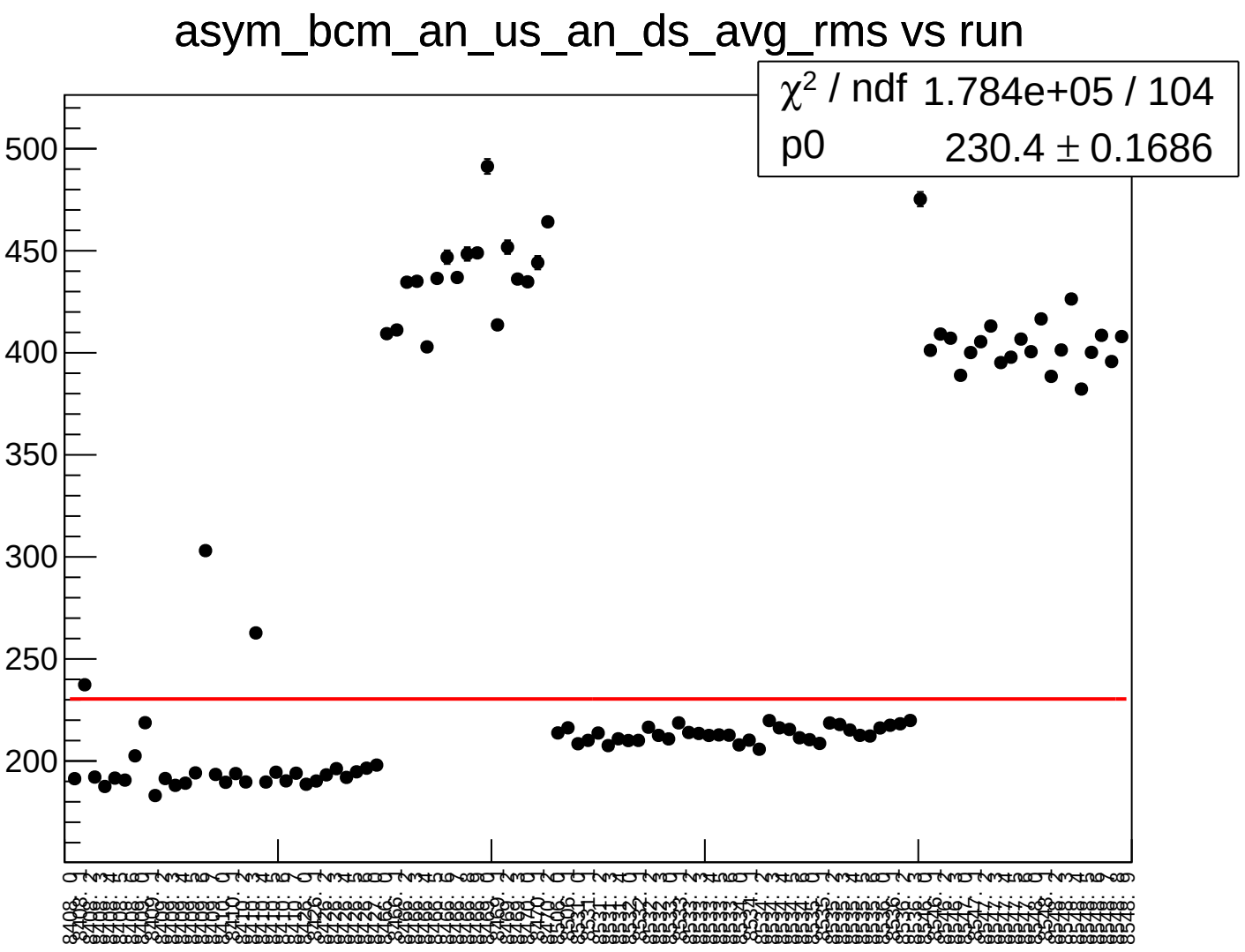

asym_bcm_2an_us_an_ds_dd_mean vs run
χ² / ndf 35.39 / 104
p0 −243.1 ± 80.87
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 105
Mean 41.11
Std Dev 67.23
1.5
1
0.5
0
−0.5
−1
−1.5
−2

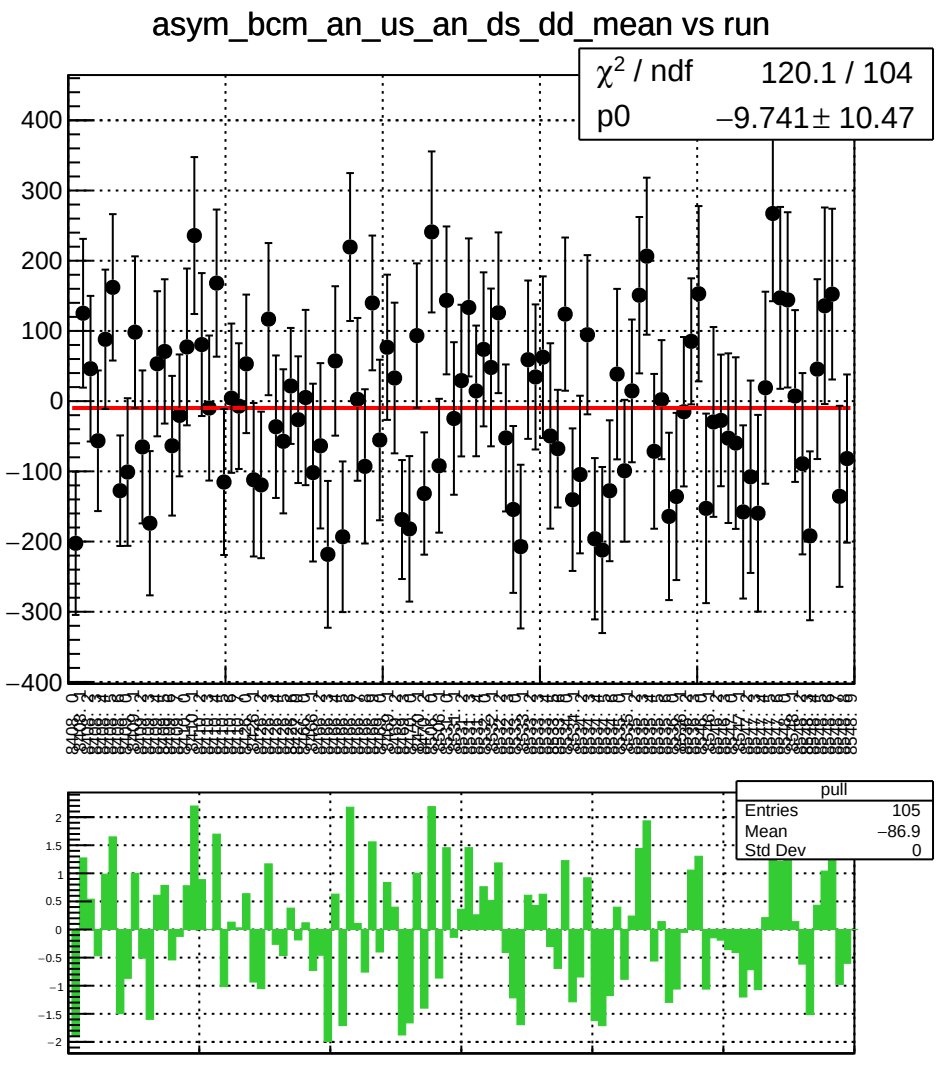

pull1D
Entries 105
Mean −0.00308
Std Dev 0.5806
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

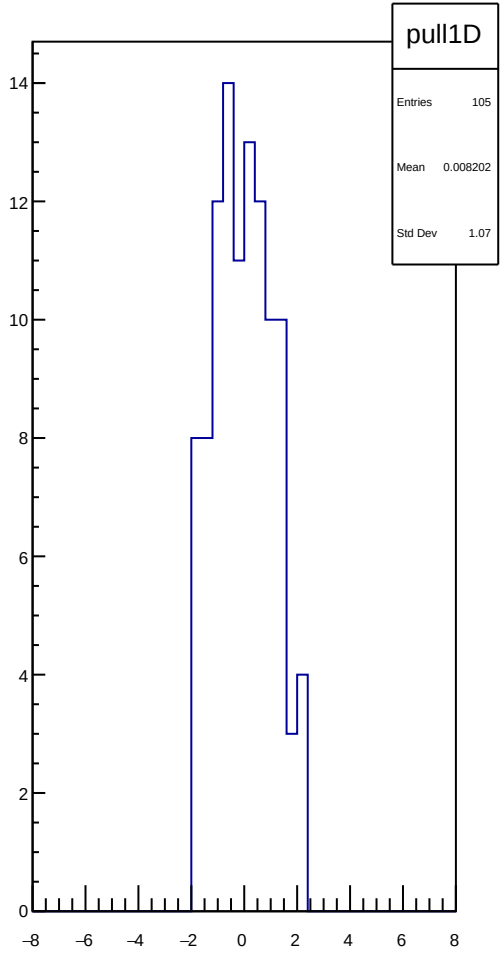

asym_bcm_2an_us_an_ds_dd_rms vs run
χ² / ndf 1.725e+05 / 104
p0 78.28 ± 0.05719
160
140
120
100
80
60

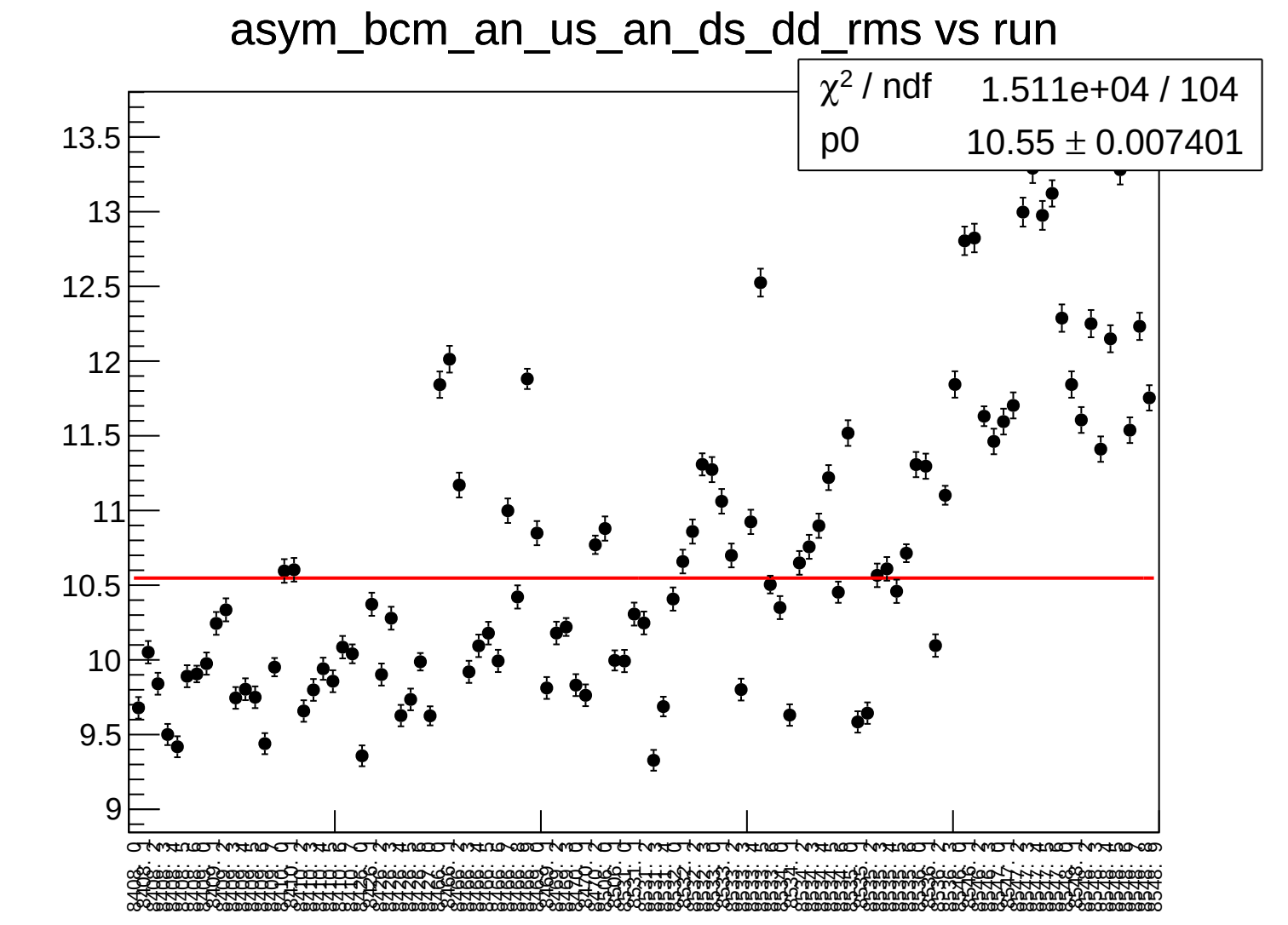

asym_bcm_an_us_an_ds_avg_mean vs run
χ² / ndf 33.71 / 104
p0 −715.3 ± 238.4
10000
5000
0
−5000
−10000
pull
Entries 105
Mean −102.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

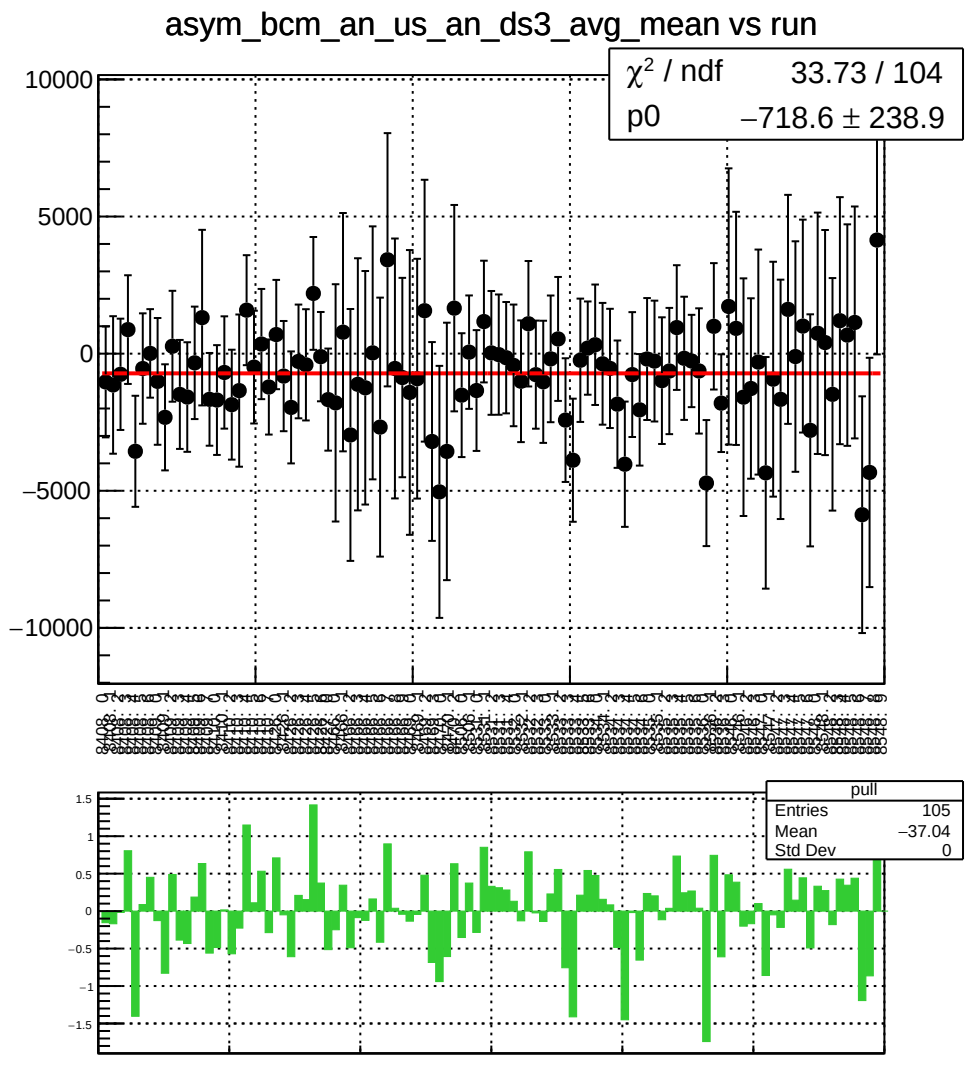

pull1D
Entries 105
Mean −0.001649
Std Dev 0.5666
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

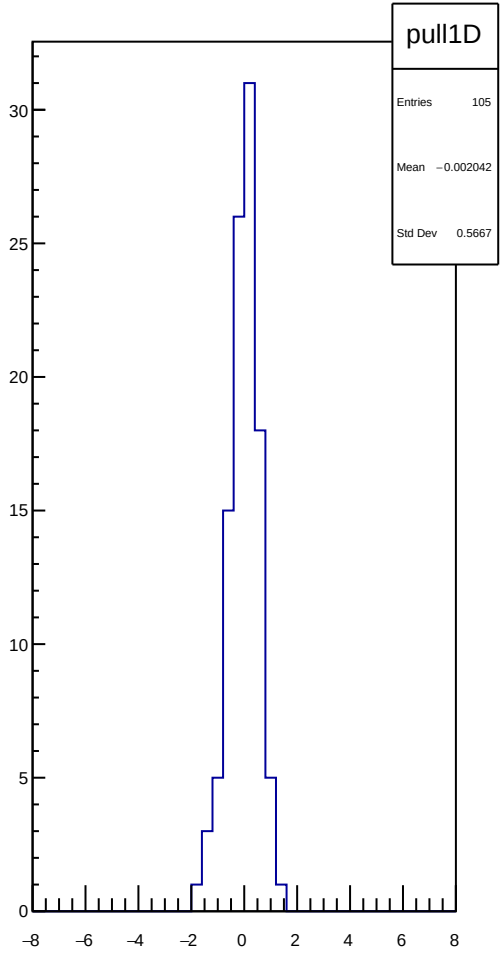

asym_bcm_an_us_an_ds_avg_rms vs run
χ² / ndf 1.784e+05 / 104
p0 230.4 ± 0.1686
500
450
400
350
300
250
200

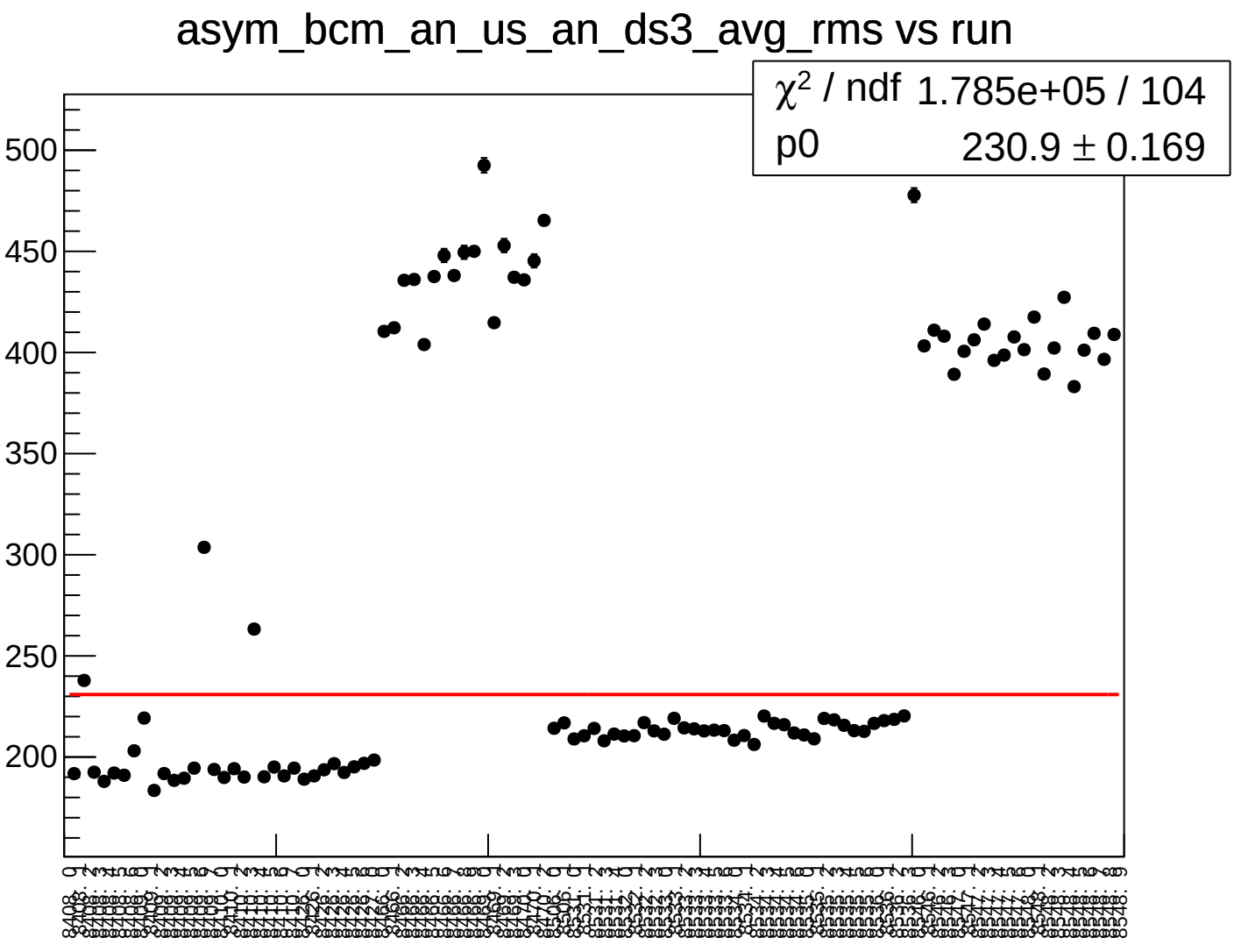

asym_bcm_an_us_an_ds_dd_mean vs run
χ² / ndf 120.1 / 104
p0 −9.741 ± 10.47
400
300
200
100
0
−100
−200
−300
−400
pull
Entries 105
Mean −86.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

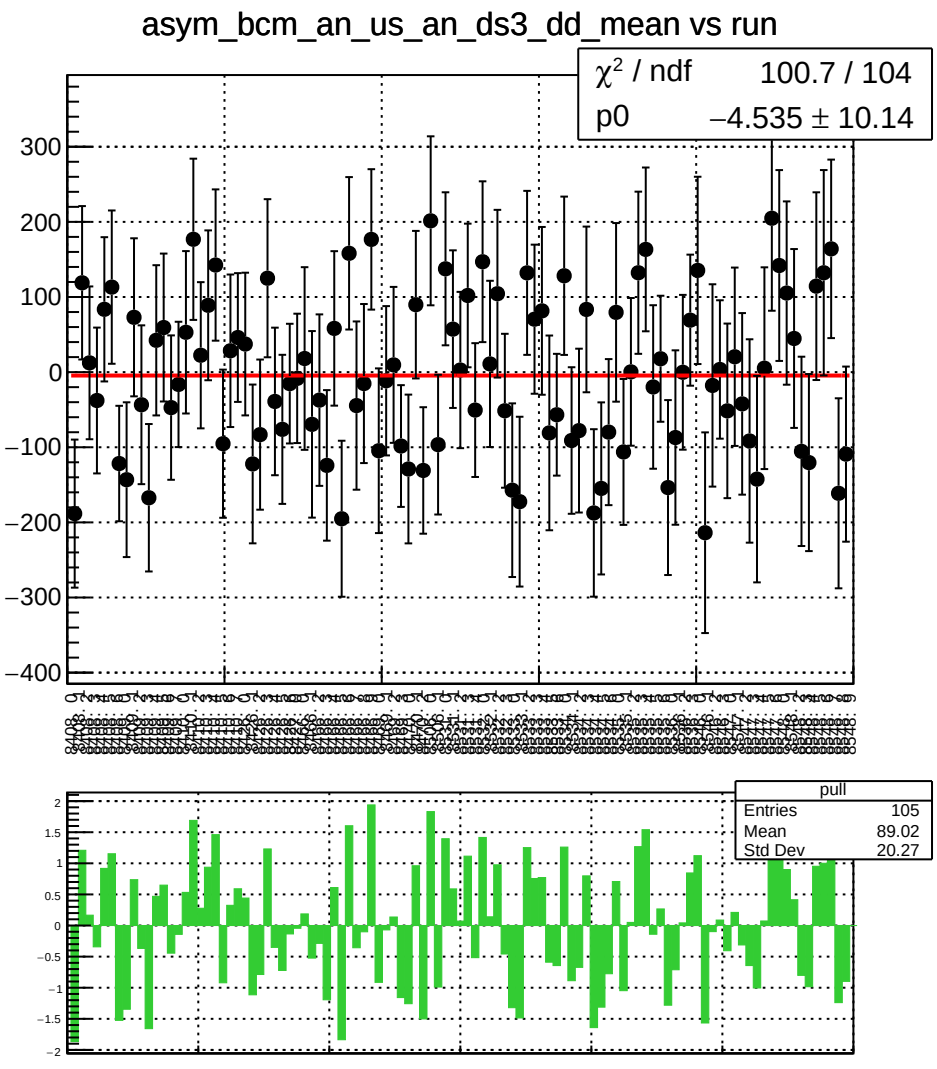

pull1D
Entries 105
Mean 0.008202
Std Dev 1.07
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

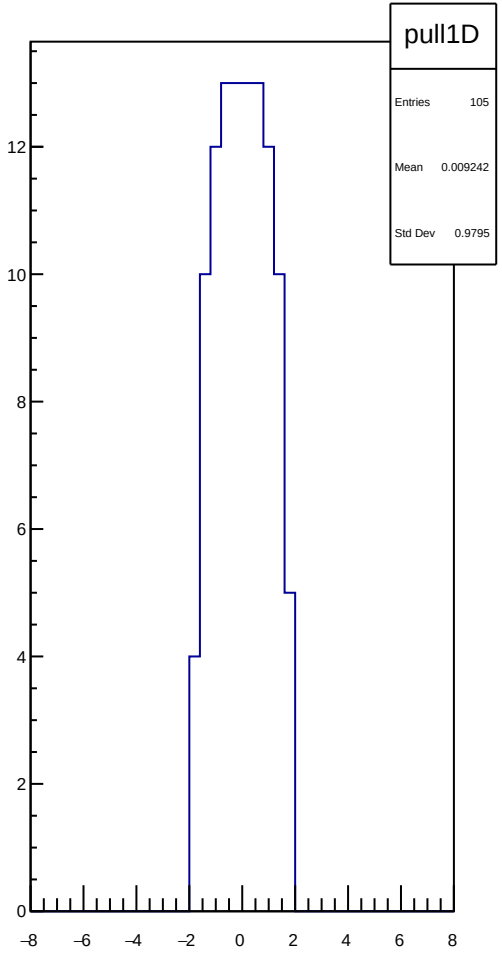

asym_bcm_an_us_an_ds_dd_rms vs run
χ² / ndf 1.511e+04 / 104
p0 10.55 ± 0.007401
13.5
13
12.5
12
11.5
11
10.5
10
9.5
9

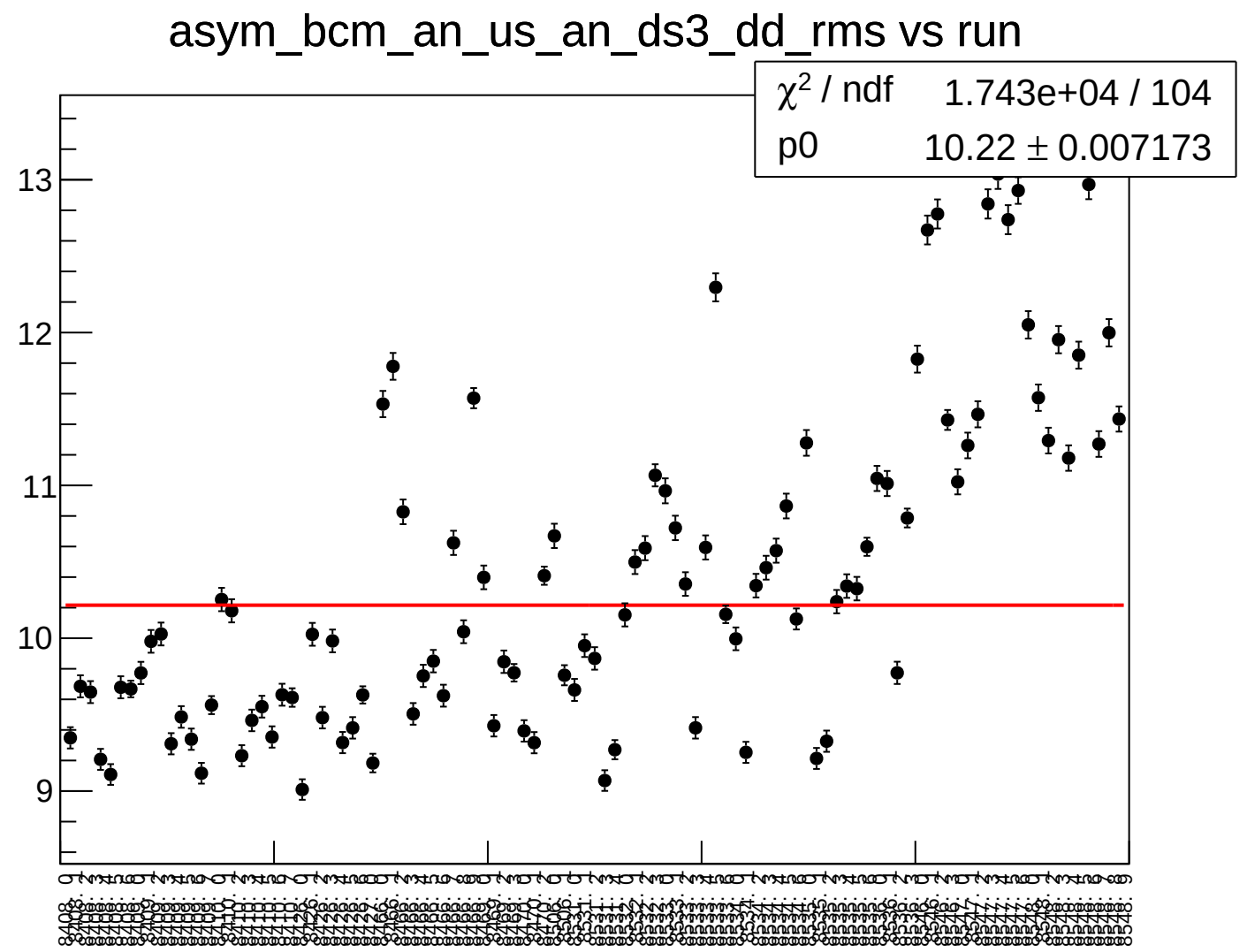

asym_bcm_an_us_an_ds3_avg_mean vs run
χ² / ndf 33.73 / 104
p0 −718.6 ± 238.9
10000
5000
0
−5000
−10000
pull
Entries 105
Mean −37.04
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

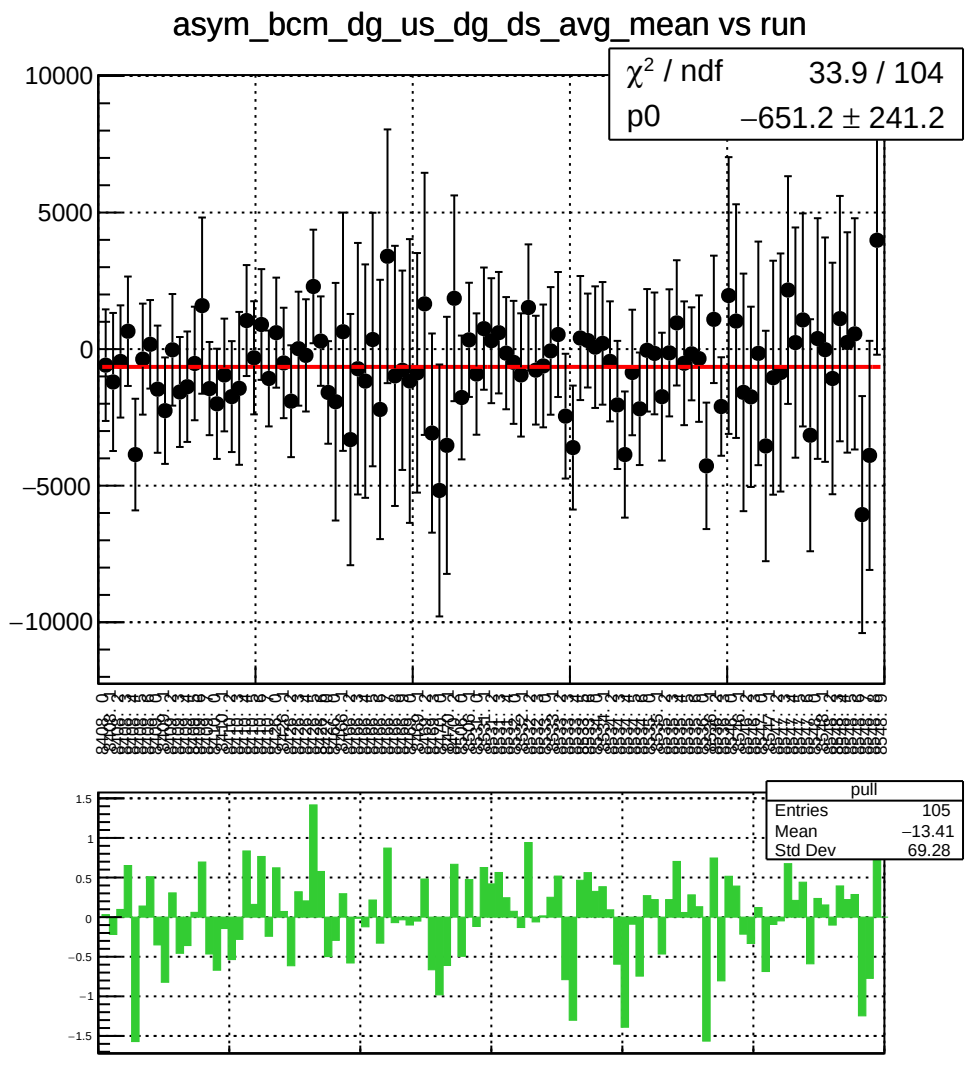

pull1D
Entries 105
Mean −0.002042
Std Dev 0.5667
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

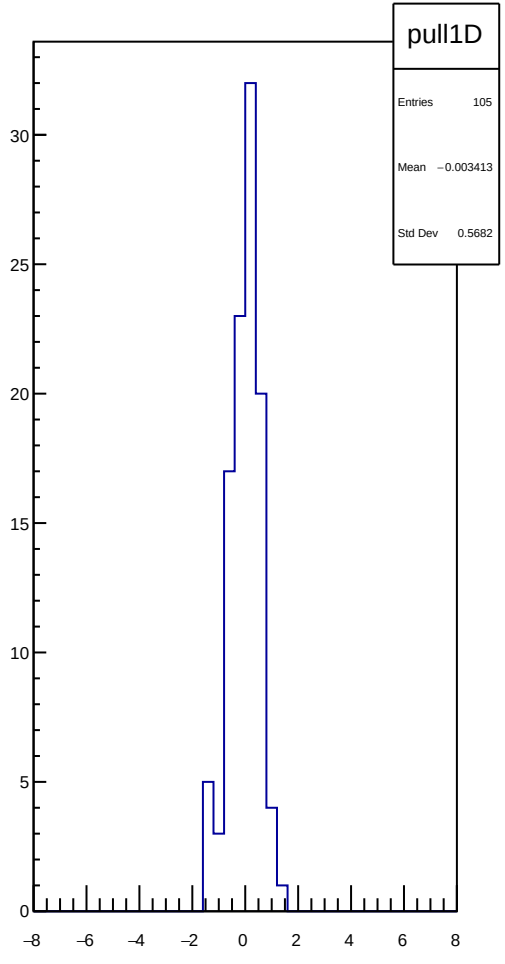

asym_bcm_an_us_an_ds3_avg_rms vs run
χ² / ndf 1.785e+05 / 104
p0 230.9 ± 0.169
500
450
400
350
300
250
200


asym_bcm_an_us_an_ds3_dd_mean vs run
χ² / ndf 100.7 / 104
p0 −4.535 ± 10.14
300
200
100
0
−100
−200
−300
−400
pull
Entries 105
Mean 89.02
Std Dev 20.27
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 105
Mean 0.009242
Std Dev 0.9795
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_an_us_an_ds3_dd_rms vs run
χ² / ndf 1.743e+04 / 104
p0 10.22 ± 0.007173
13
12
11
10
9


asym_bcm_dg_us_dg_ds_avg_mean vs run
χ² / ndf 33.9 / 104
p0 −651.2 ± 241.2
10000
5000
0
−5000
−10000
pull
Entries 105
Mean −13.41
Std Dev 69.28
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 105
Mean −0.003413
Std Dev 0.5682
30
25
20
15
10
5
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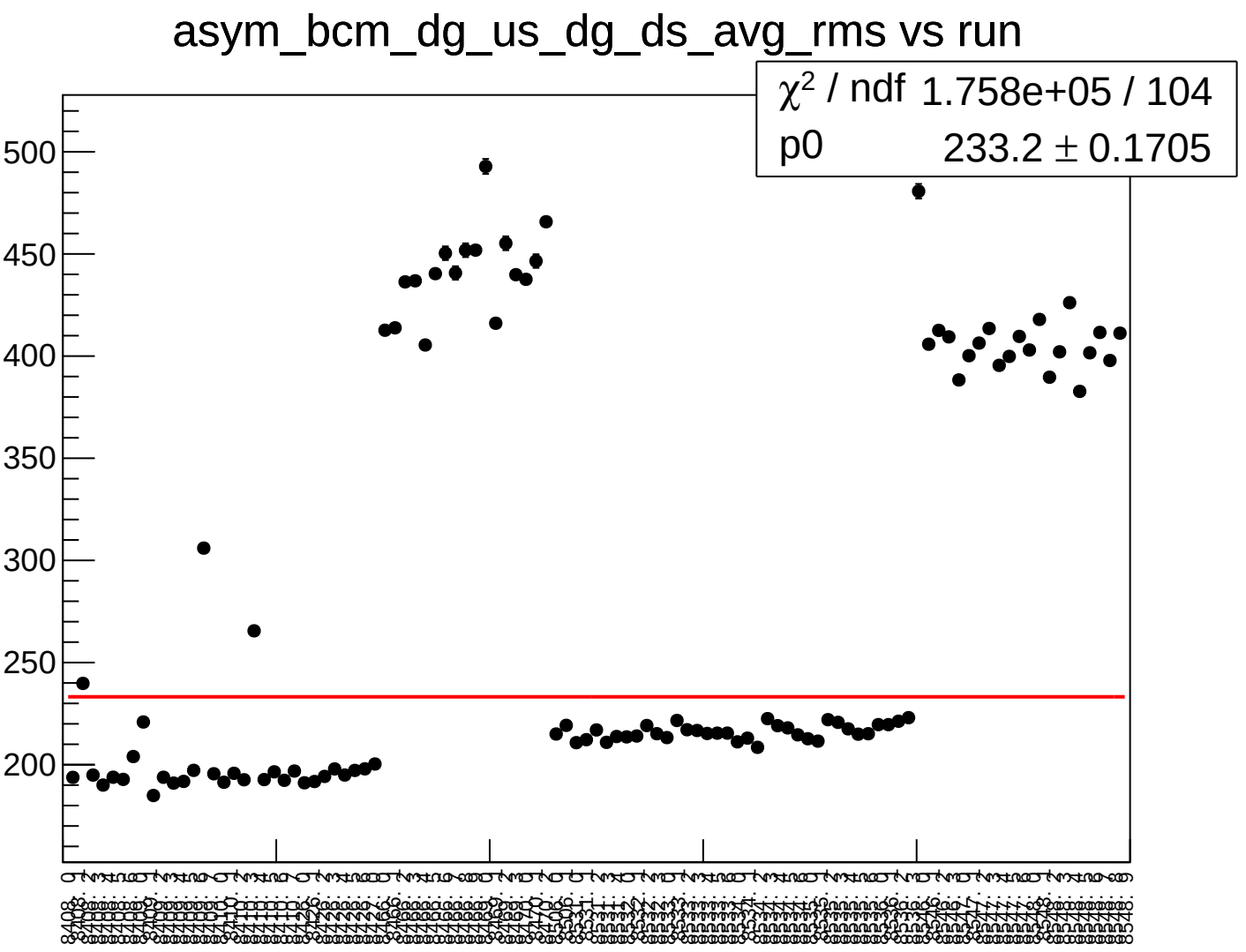
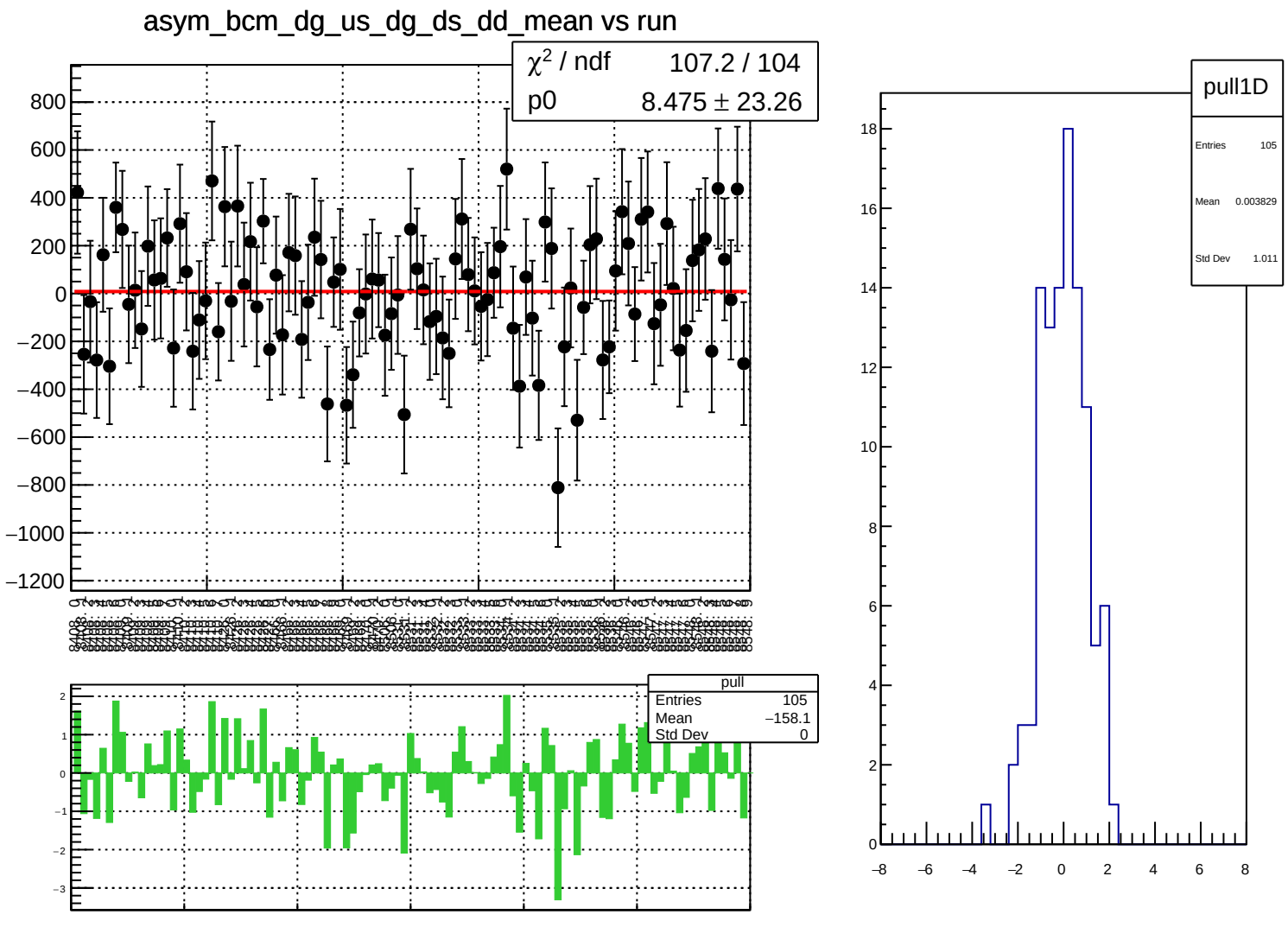
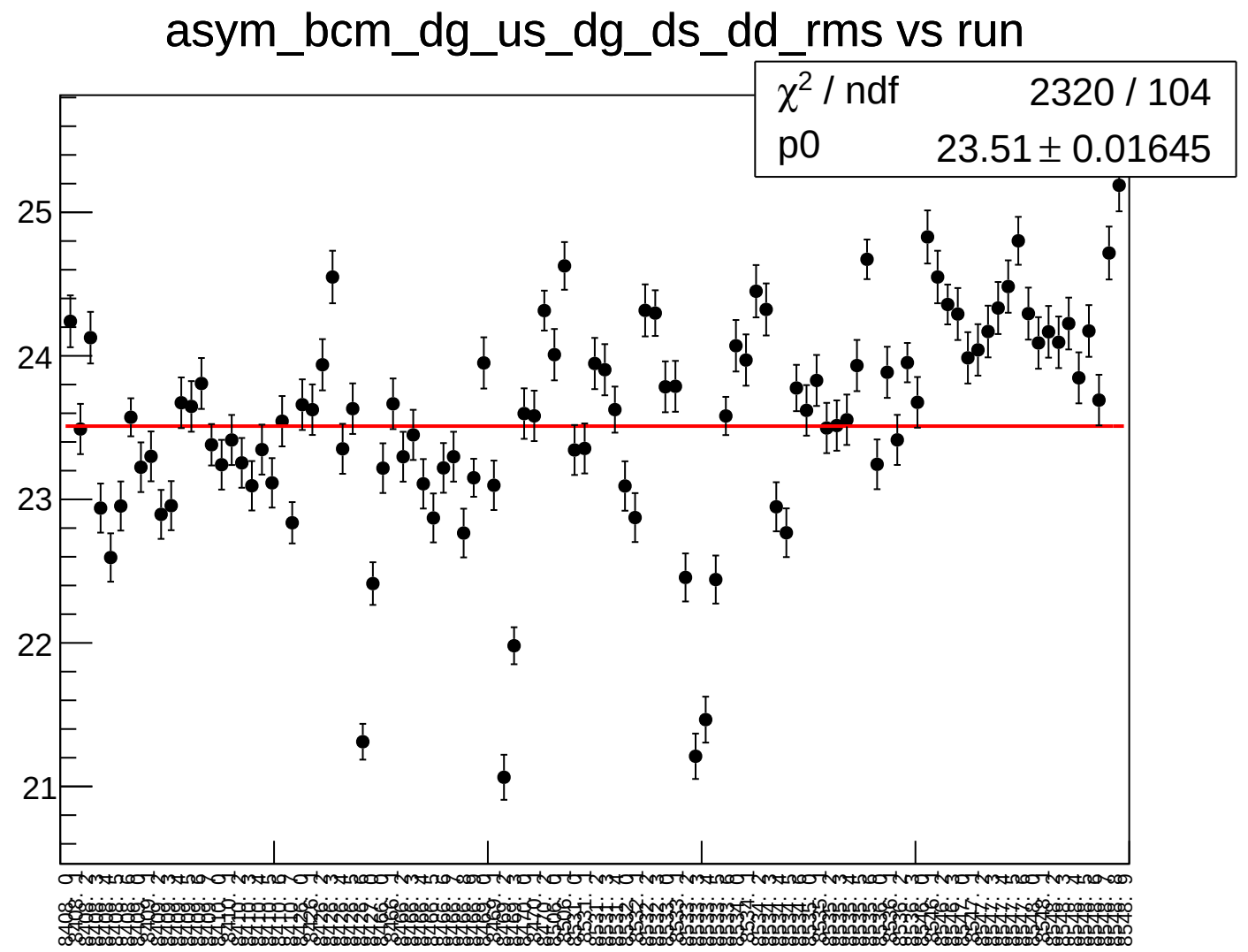
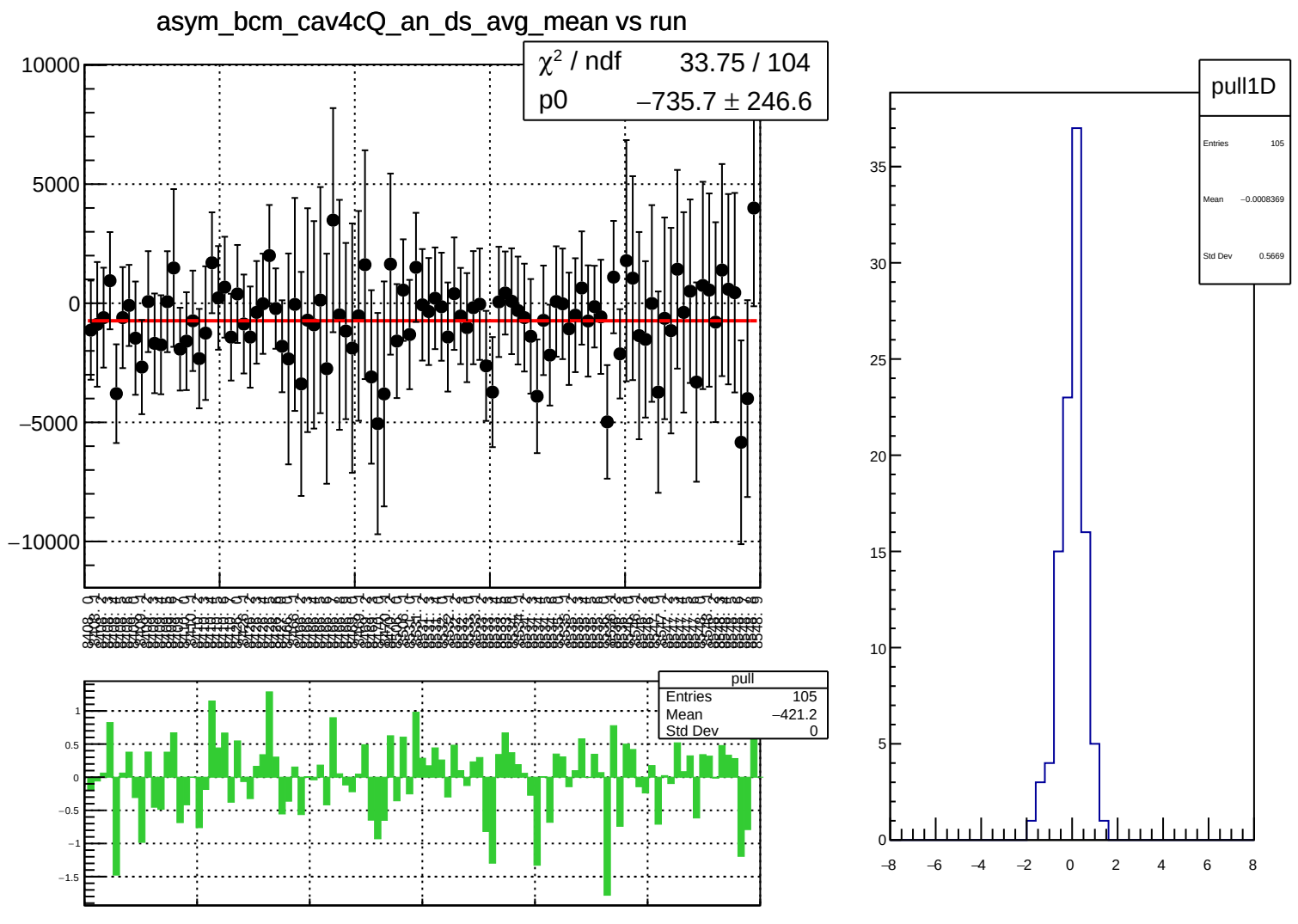
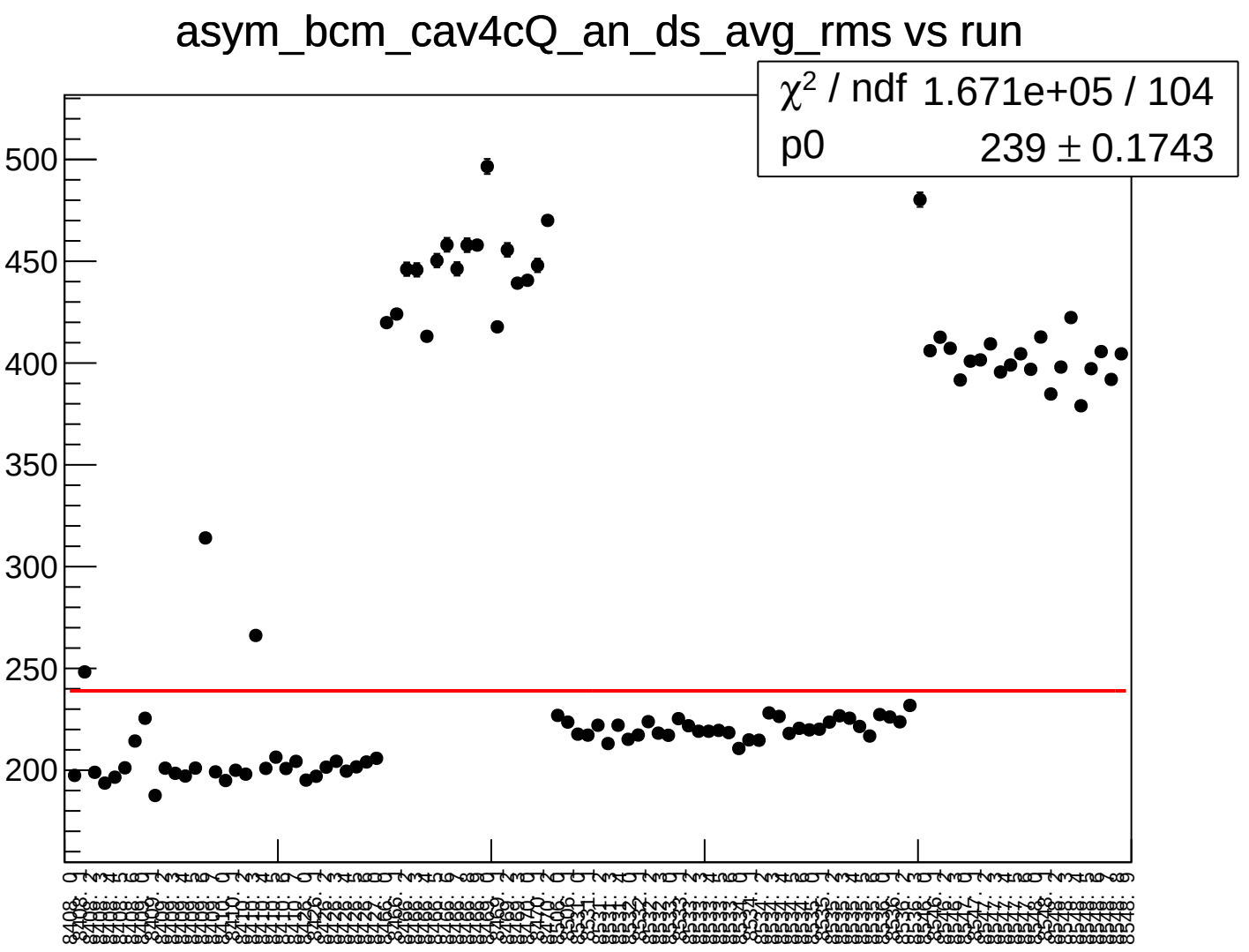
−6
−4
−2
0
2
4
6
8

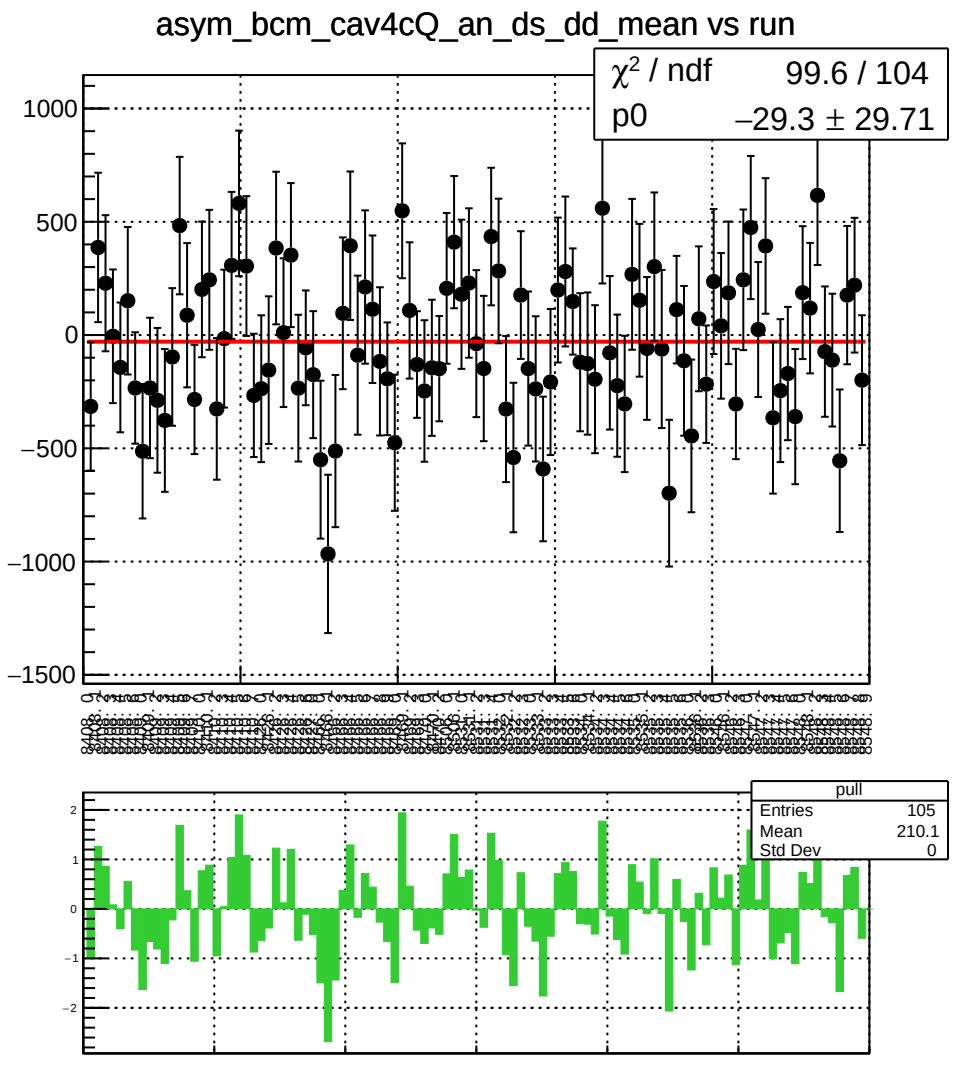

asym_bcm_dg_us_dg_ds_avg_rms vs run
χ² / ndf 1.758e+05 / 104
p0 233.2 ± 0.1705
500
450
400
350
300
250
200

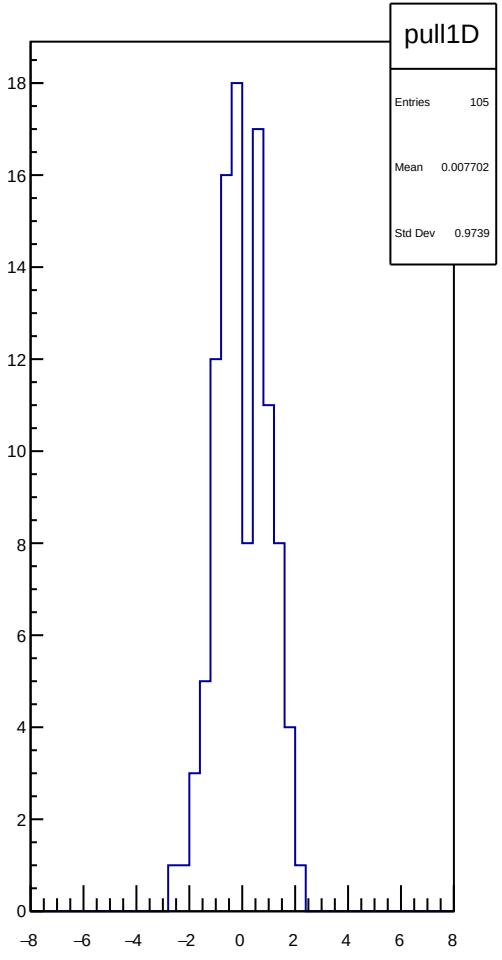

asym_bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 107.2 / 104
p0 8.475 ± 23.26
800
600
400
200
0
−200
−400
−600
−800
−1000
−1200
pull
Entries 105
Mean −158.1
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 105
Mean 0.003829
Std Dev 1.011
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

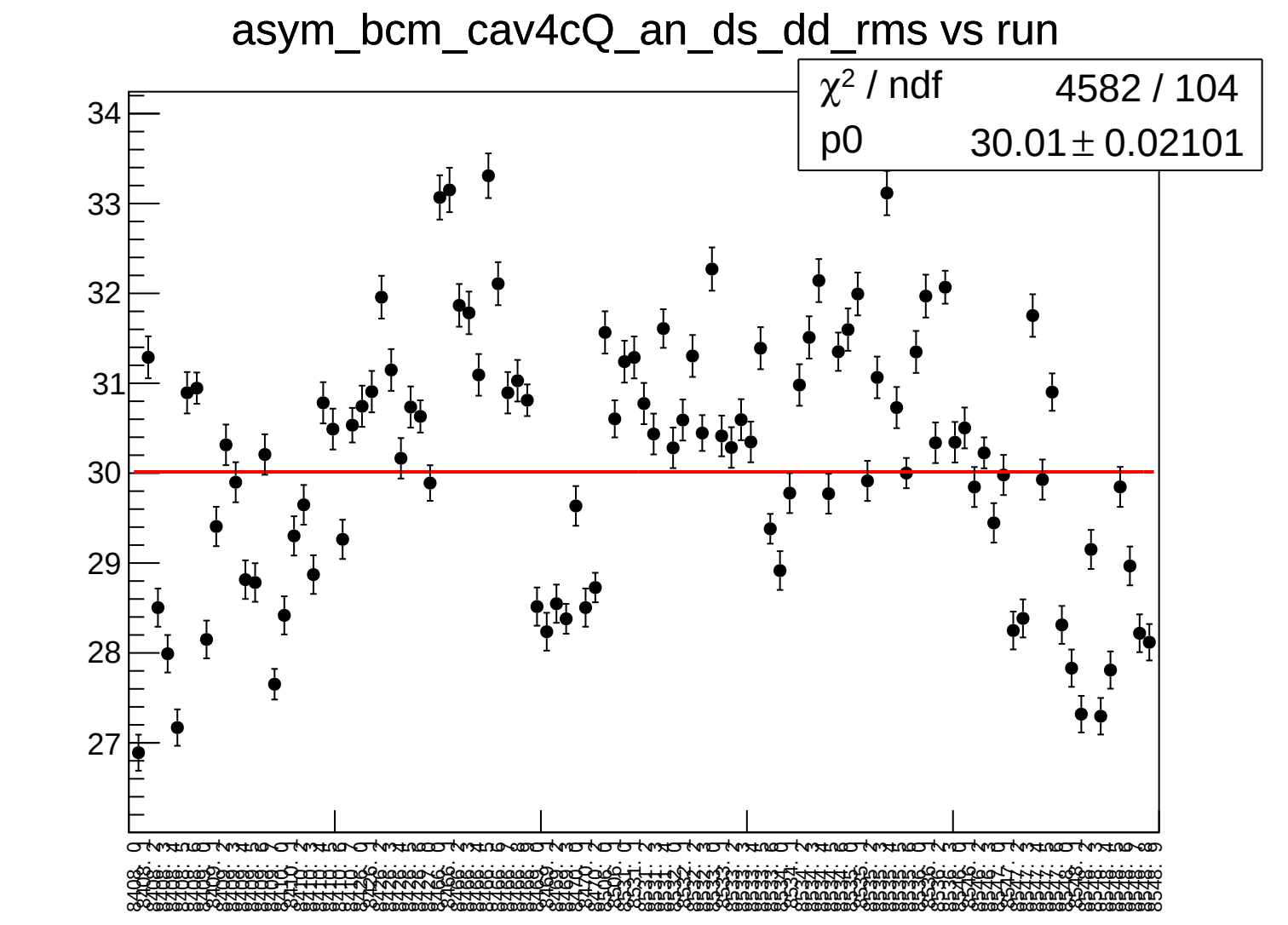

asym_bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 2320 / 104
p0 23.51 ± 0.01645
25
24
23
22
21

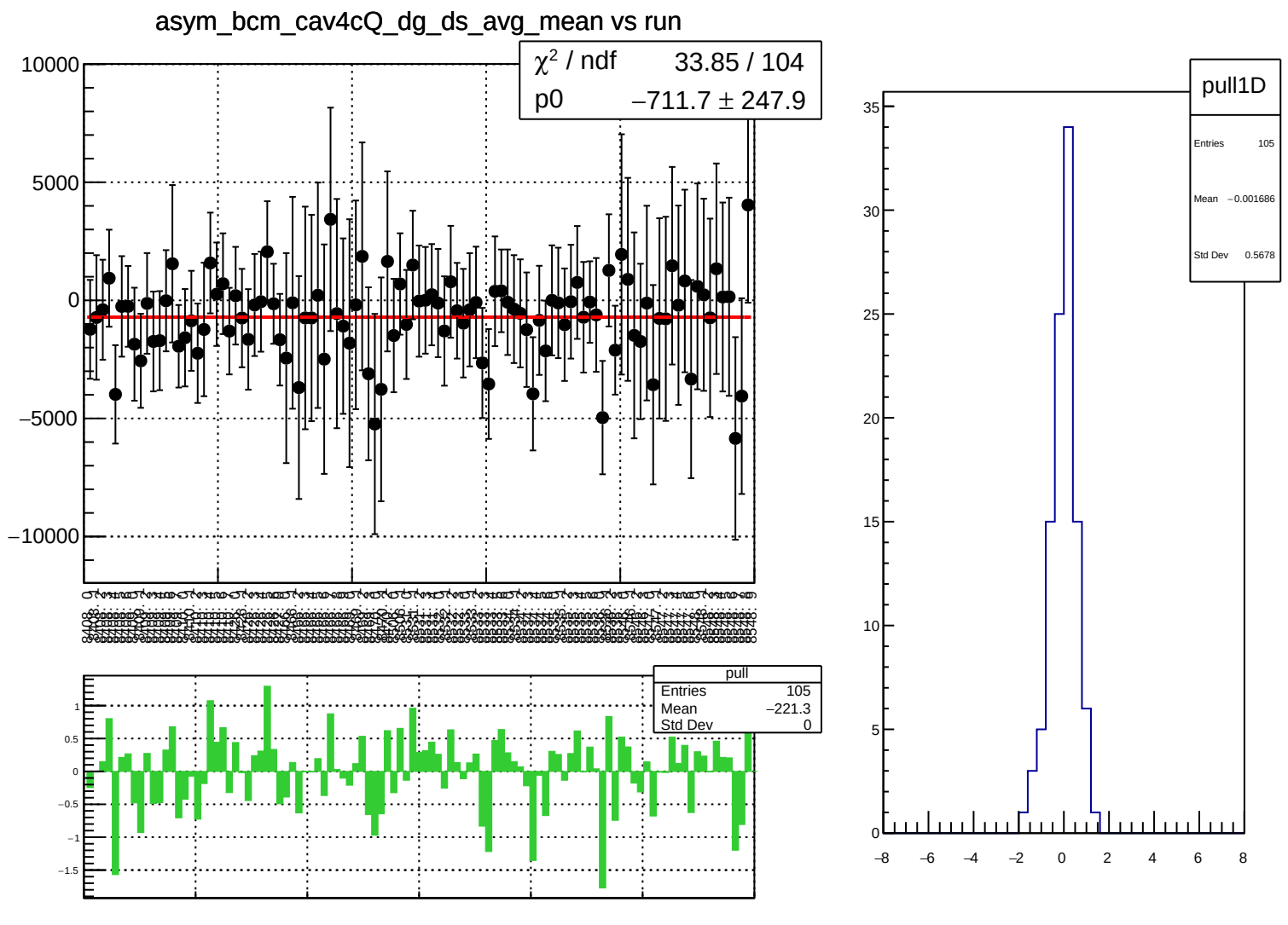

asym_bcm_cav4cQ_an_ds_avg_mean vs run
χ² / ndf 33.75 / 104
p0 −735.7 ± 246.6
10000
5000
0
−5000
−10000
pull
Entries 105
Mean −421.2
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 105
Mean −0.0008369
Std Dev 0.5669
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

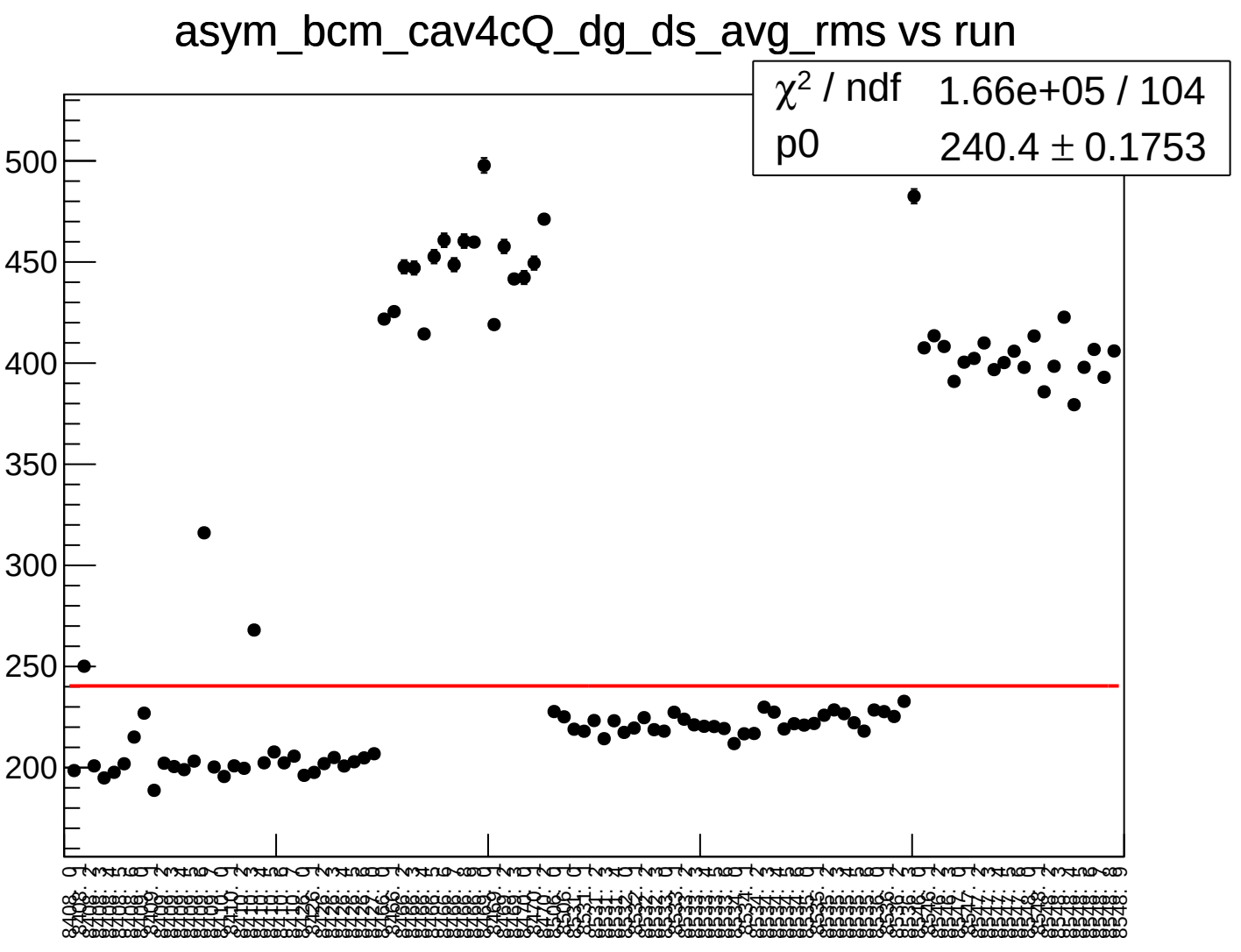

asym_bcm_cav4cQ_an_ds_avg_rms vs run
χ² / ndf 1.671e+05 / 104
p0 239 ± 0.1743
500
450
400
350
300
250
200

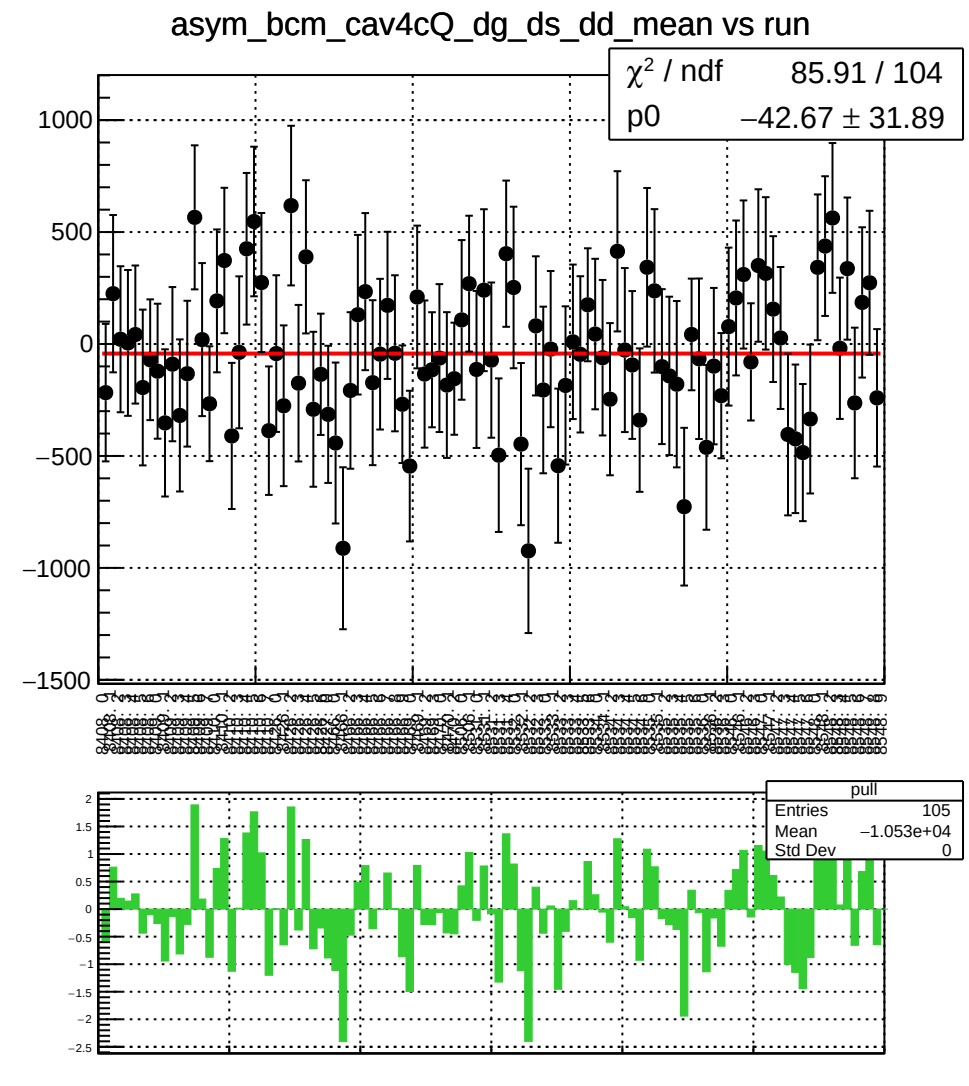

asym_bcm_cav4cQ_an_ds_dd_mean vs run
χ² / ndf 99.6 / 104
p0 −29.3 ± 29.71
1000
500
0
−500
−1000
−1500
pull
Entries 105
Mean 210.1
Std Dev 0
2
1
0
−1
−2

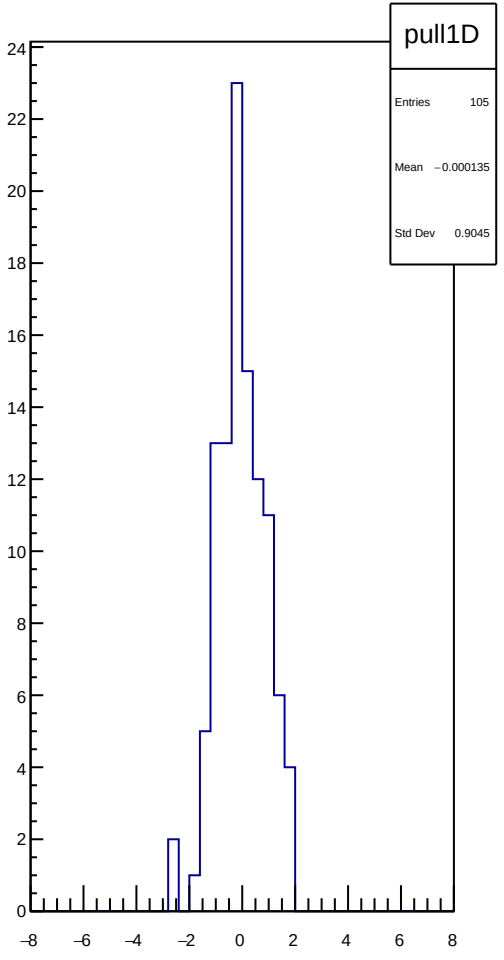

pull1D
Entries 105
Mean 0.007702
Std Dev 0.9739
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

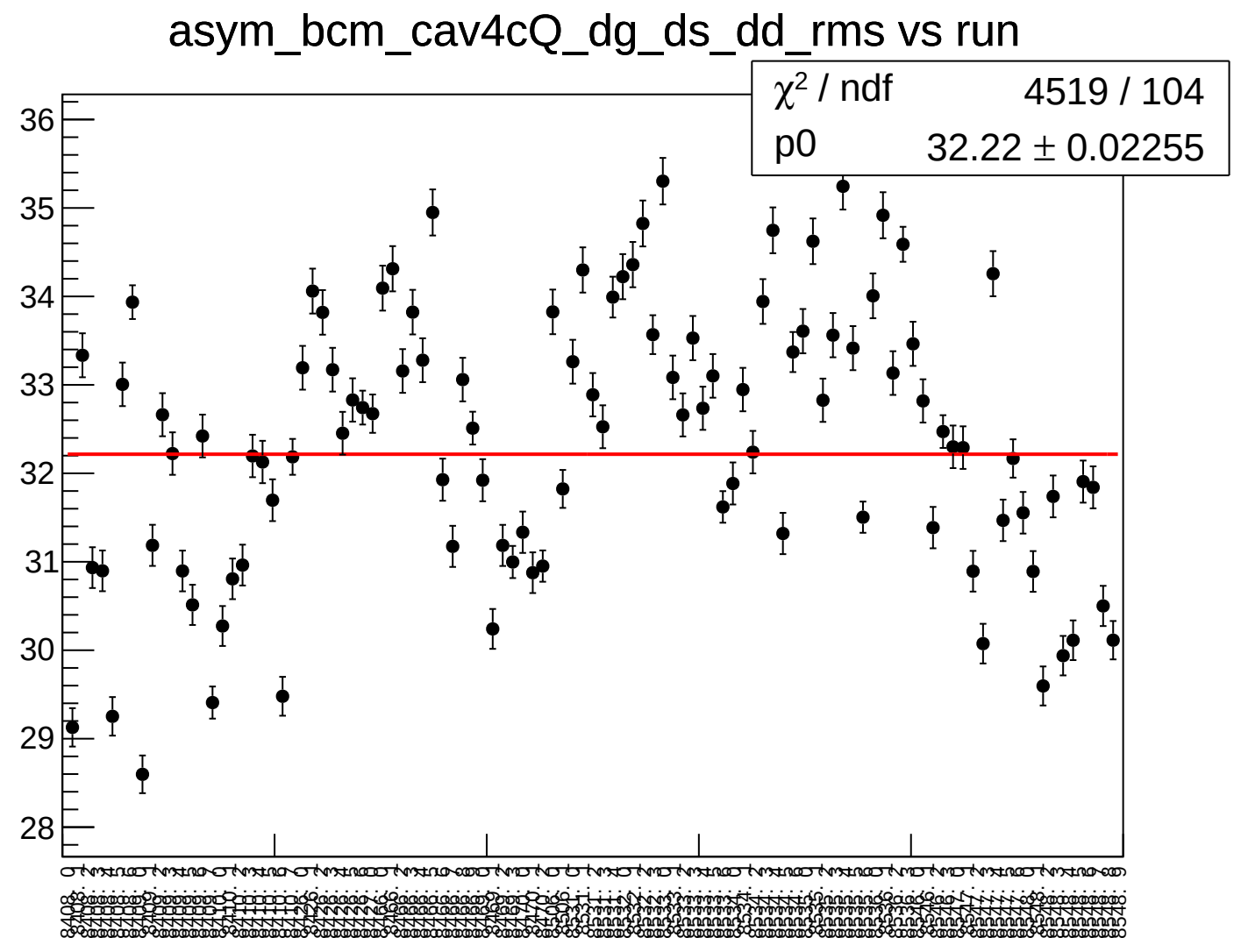

asym_bcm_cav4cQ_an_ds_dd_rms vs run
χ² / ndf 4582 / 104
p0 30.01 ± 0.02101
34
33
32
31
30
29
28
27

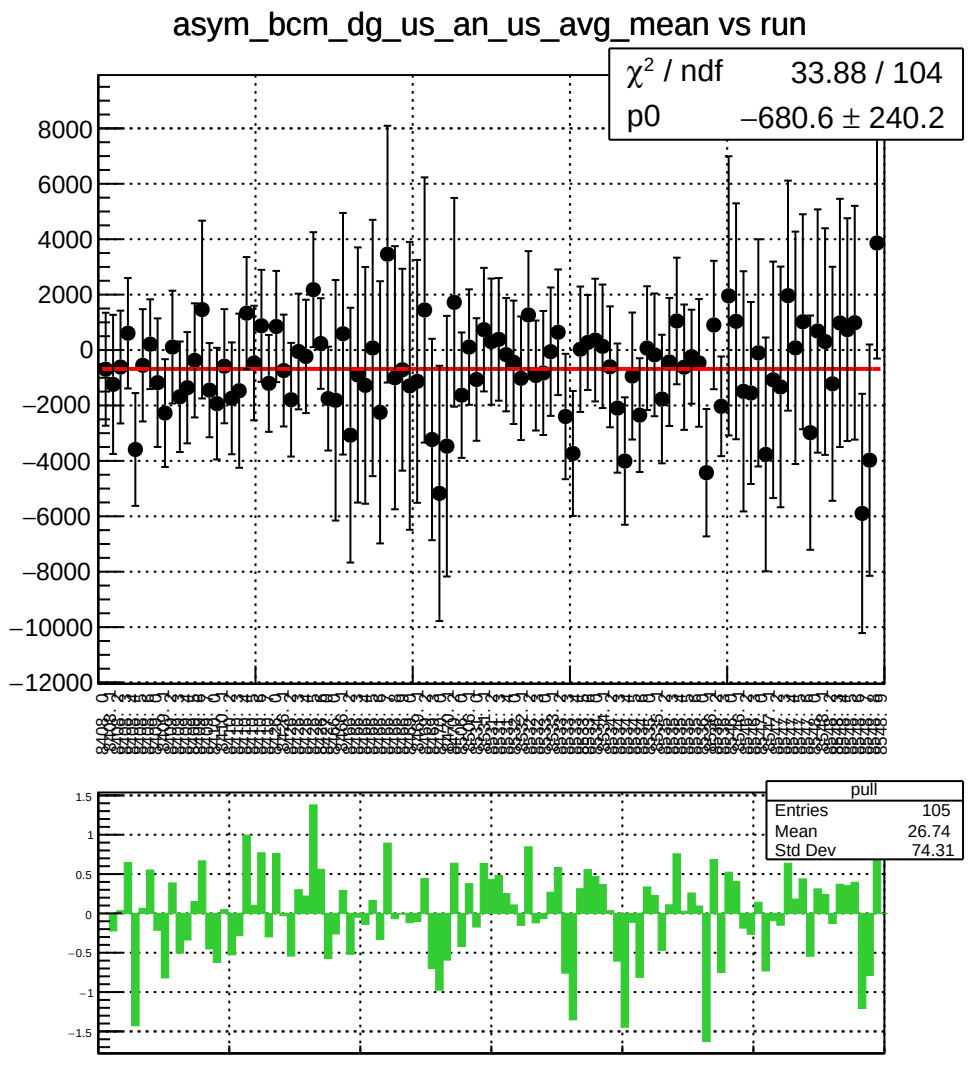

asym_bcm_cav4cQ_dg_ds_avg_mean vs run
χ² / ndf 33.85 / 104
p0 −711.7 ± 247.9
10000
5000
0
−5000
−10000
pull
Entries 105
Mean −221.3
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 105
Mean −0.001686
Std Dev 0.5678
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

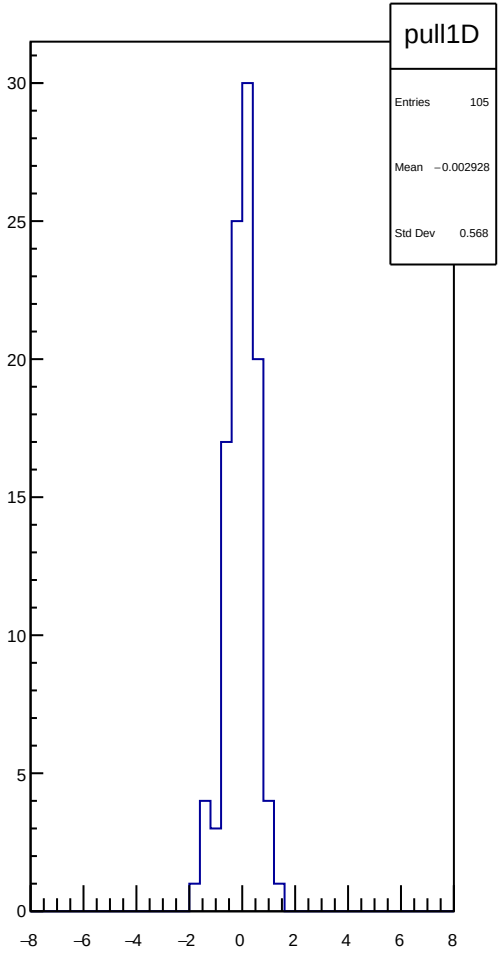

asym_bcm_cav4cQ_dg_ds_avg_rms vs run
χ² / ndf 1.66e+05 / 104
p0 240.4 ± 0.1753
500
450
400
350
300
250
200

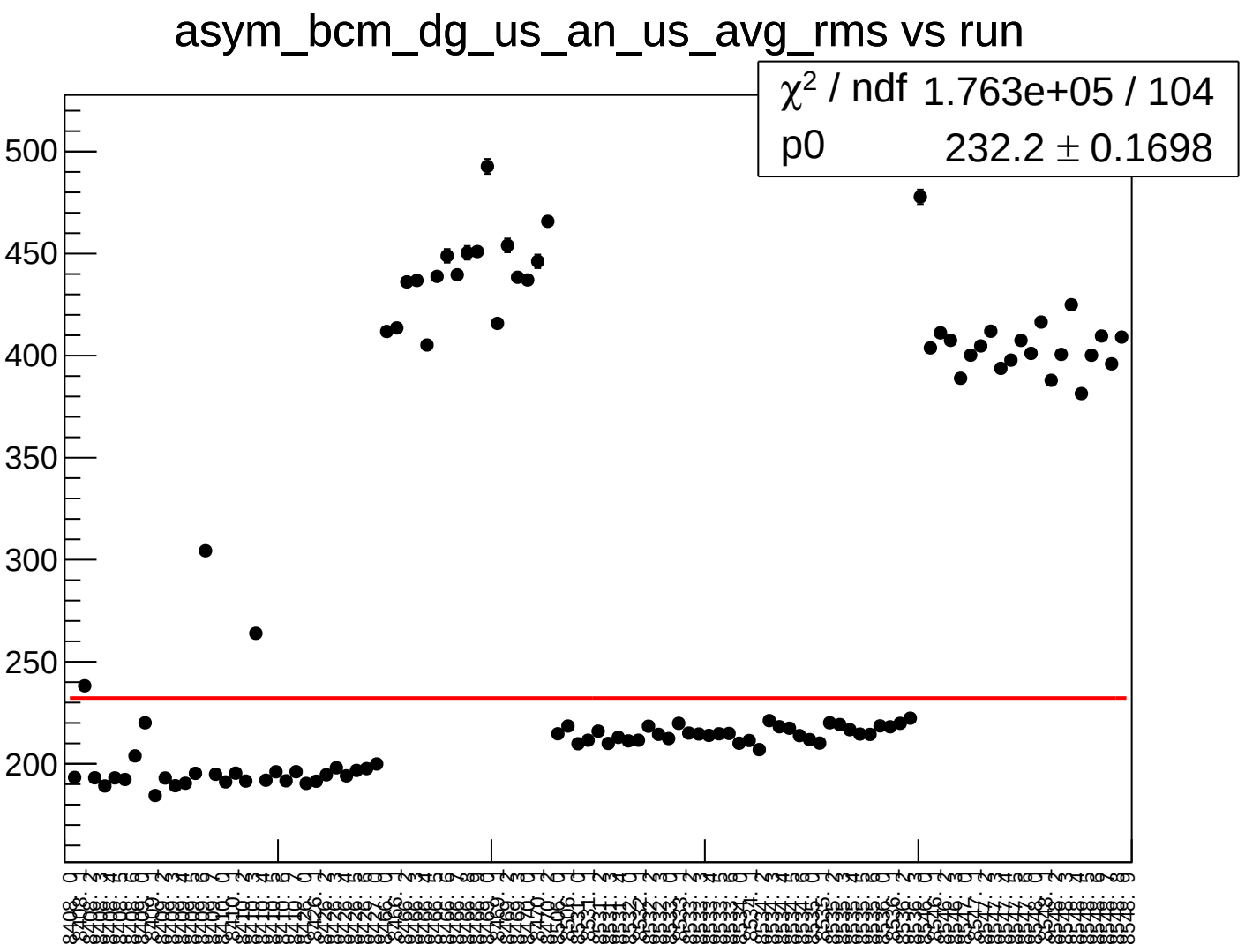

asym_bcm_cav4cQ_dg_ds_dd_mean vs run
χ² / ndf 85.91 / 104
p0 −42.67 ± 31.89
1000
500
0
−500
−1000
−1500
pull
Entries 105
Mean −1.053e+04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

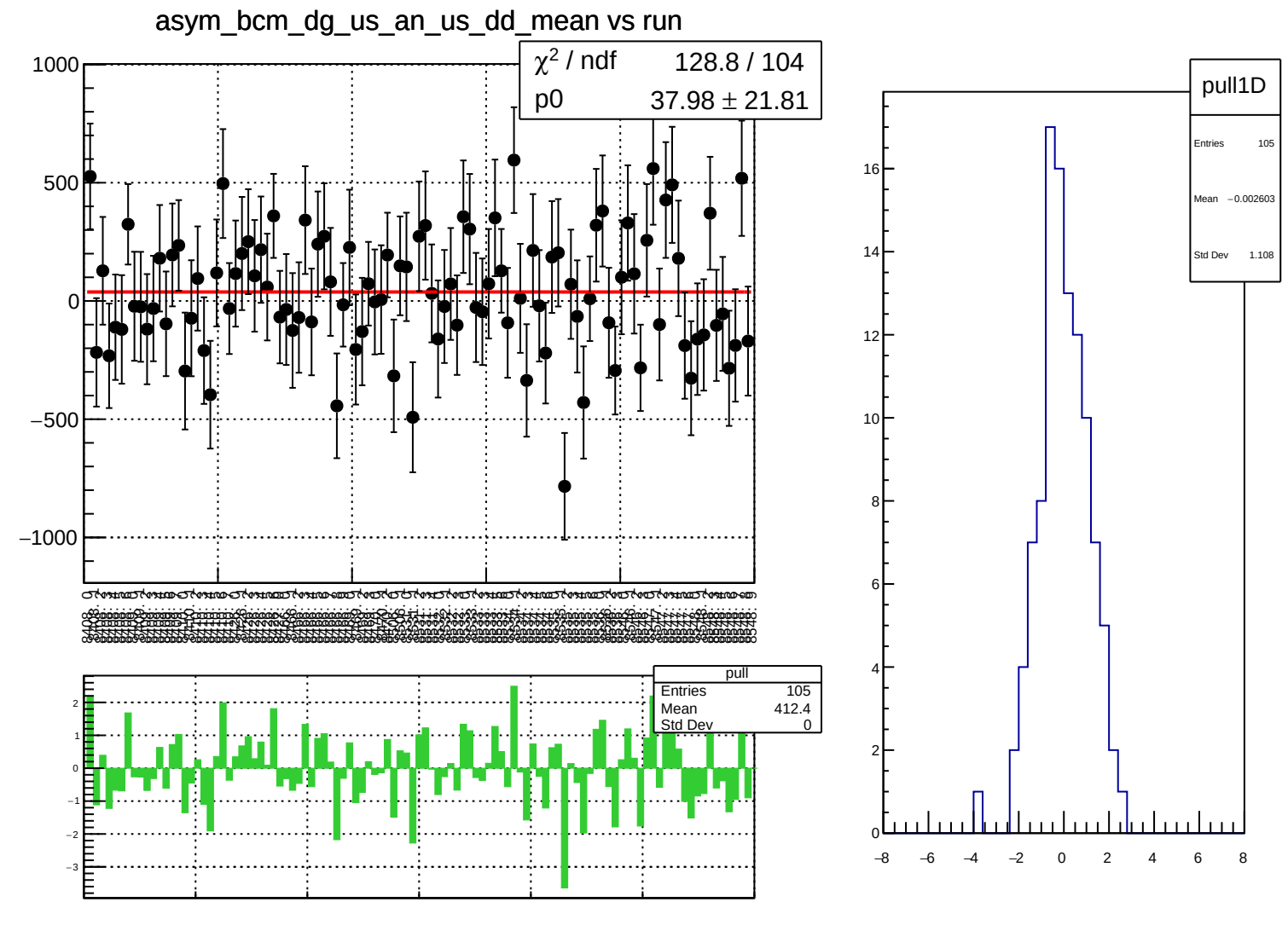

pull1D
Entries 105
Mean −0.000135
Std Dev 0.9045
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

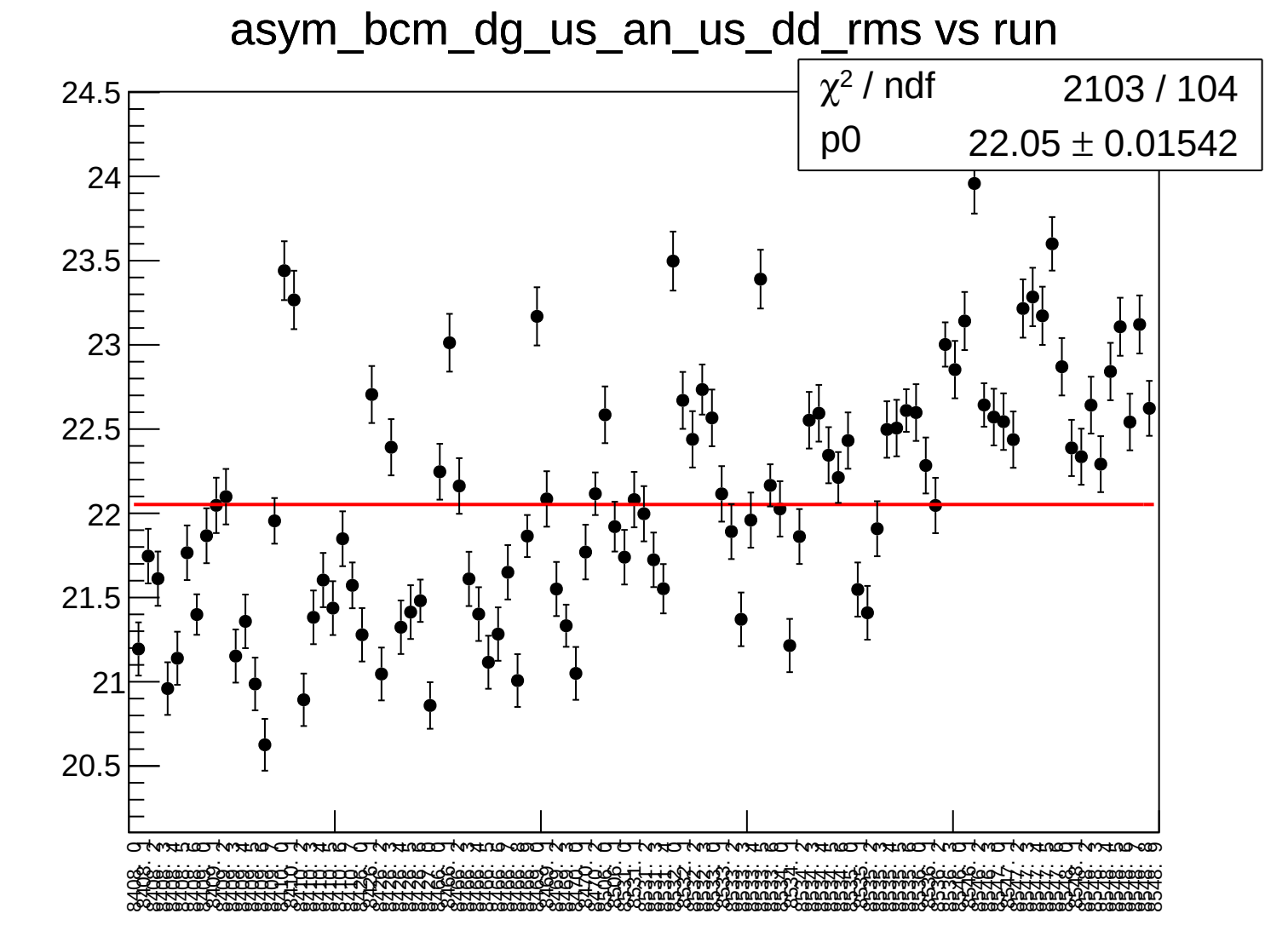

asym_bcm_cav4cQ_dg_ds_dd_rms vs run
χ² / ndf 4519 / 104
p0 32.22 ± 0.02255
36
35
34
33
32
31
30
29
28

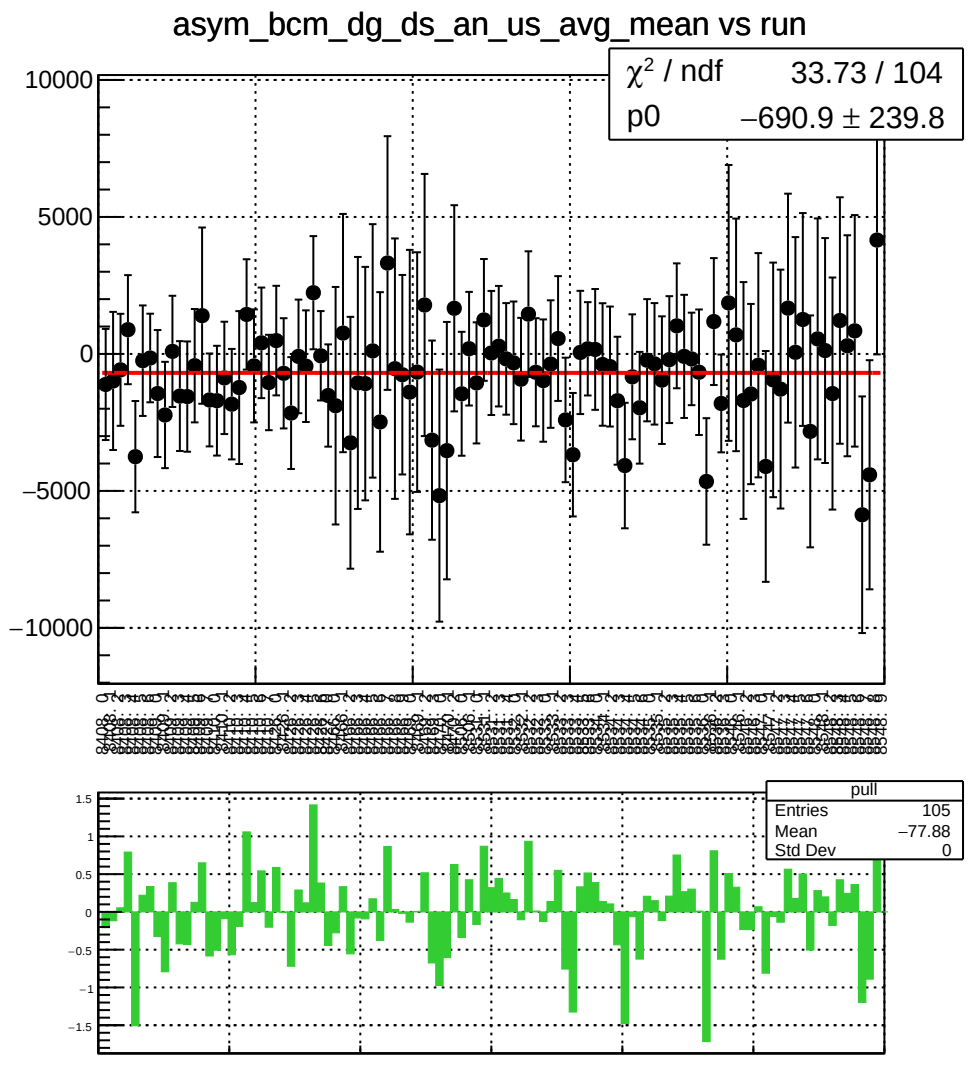

asym_bcm_dg_us_an_us_avg_mean vs run
χ² / ndf 33.88 / 104
p0 −680.6 ± 240.2
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
pull
Entries 105
Mean 26.74
Std Dev 74.31
1.5
1
0.5
0
−0.5
−1
−1.5

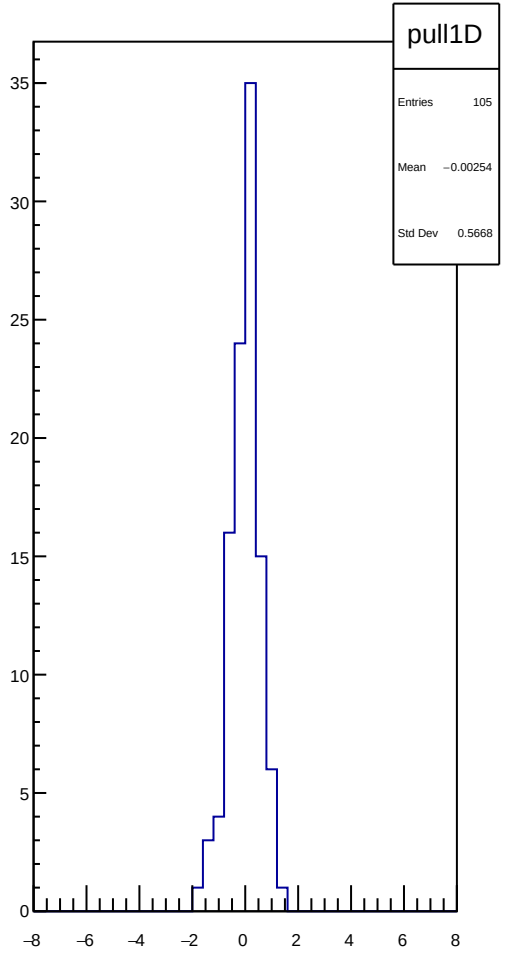

pull1D
Entries 105
Mean −0.002928
Std Dev 0.568
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_us_an_us_avg_rms vs run
χ² / ndf 1.763e+05 / 104
p0 232.2 ± 0.1698
500
450
400
350
300
250
200


asym_bcm_dg_us_an_us_dd_mean vs run
χ² / ndf 128.8 / 104
p0 37.98 ± 21.81
1000
500
0
−500
−1000
pull
Entries 105
Mean 412.4
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 105
Mean −0.002603
Std Dev 1.108
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_us_an_us_dd_rms vs run
χ² / ndf 2103 / 104
p0 22.05 ± 0.01542
24.5
24
23.5
23
22.5
22
21.5
21
20.5


asym_bcm_dg_ds_an_us_avg_mean vs run
χ² / ndf 33.73 / 104
p0 −690.9 ± 239.8
10000
5000
0
−5000
−10000
pull
Entries 105
Mean −77.88
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 105
Mean −0.00254
Std Dev 0.5668
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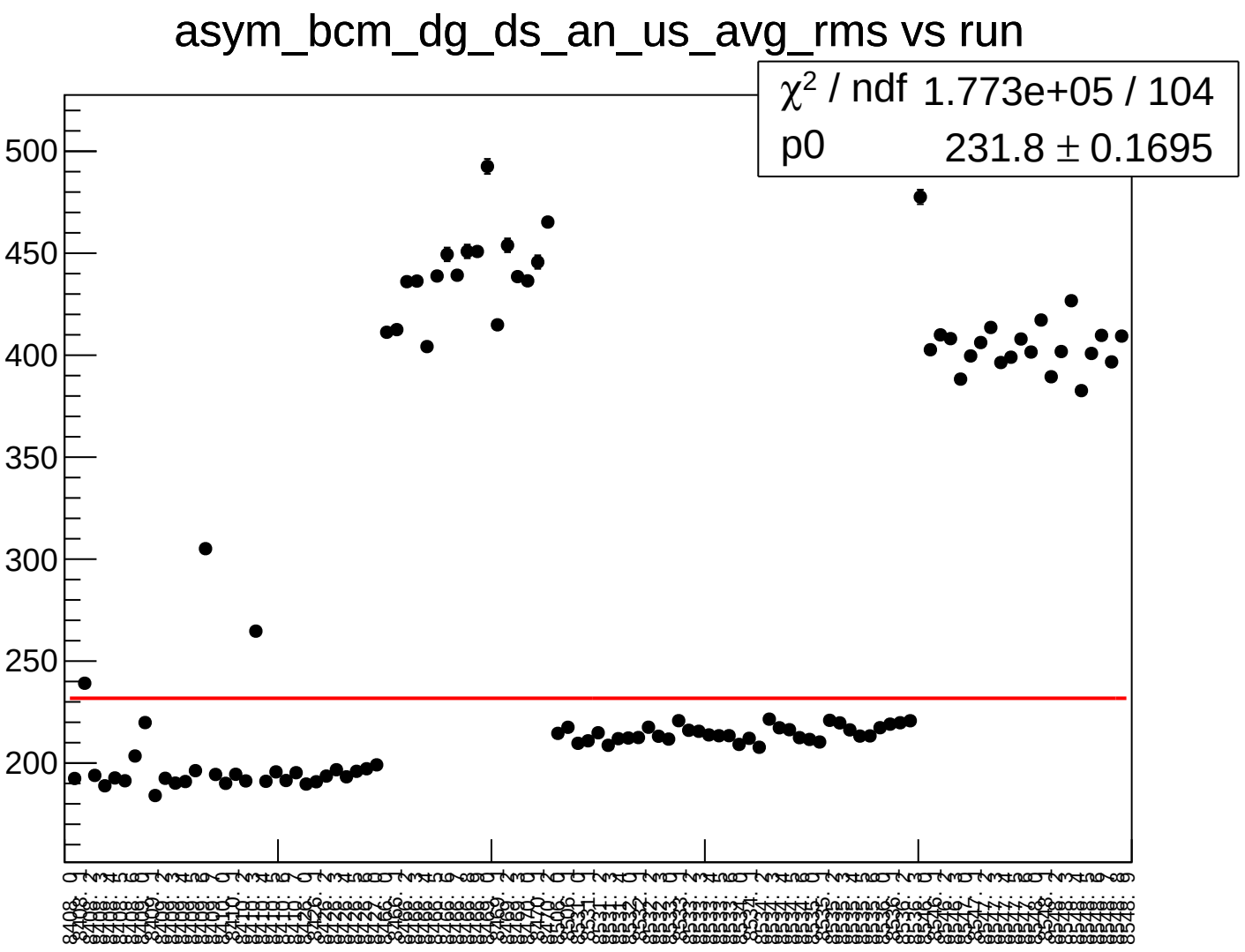
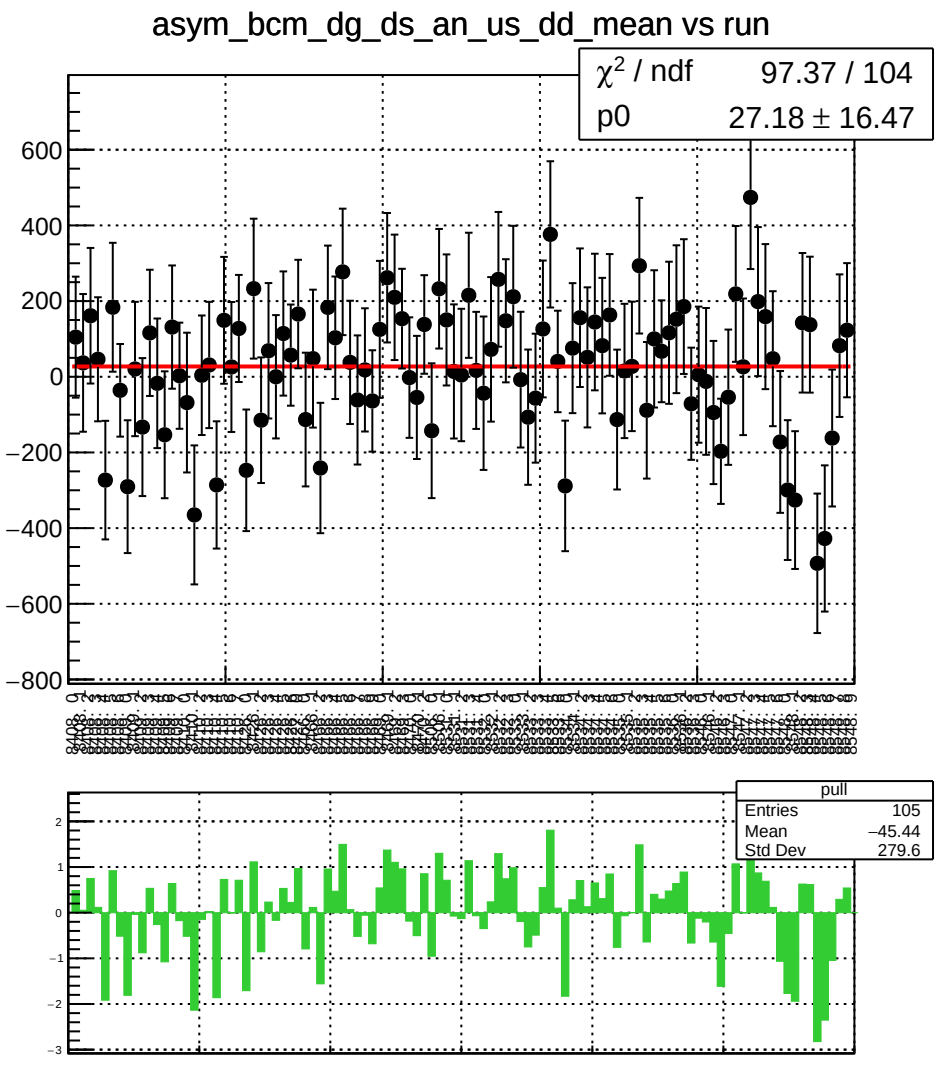
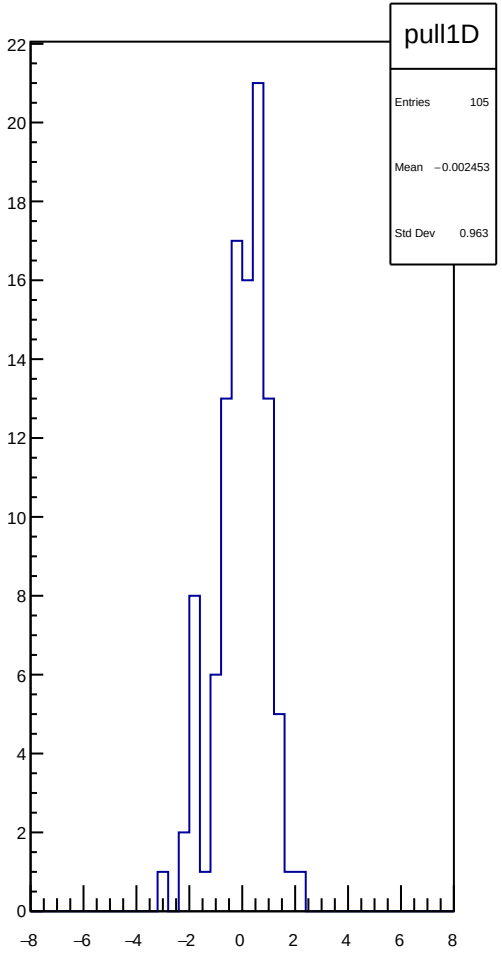
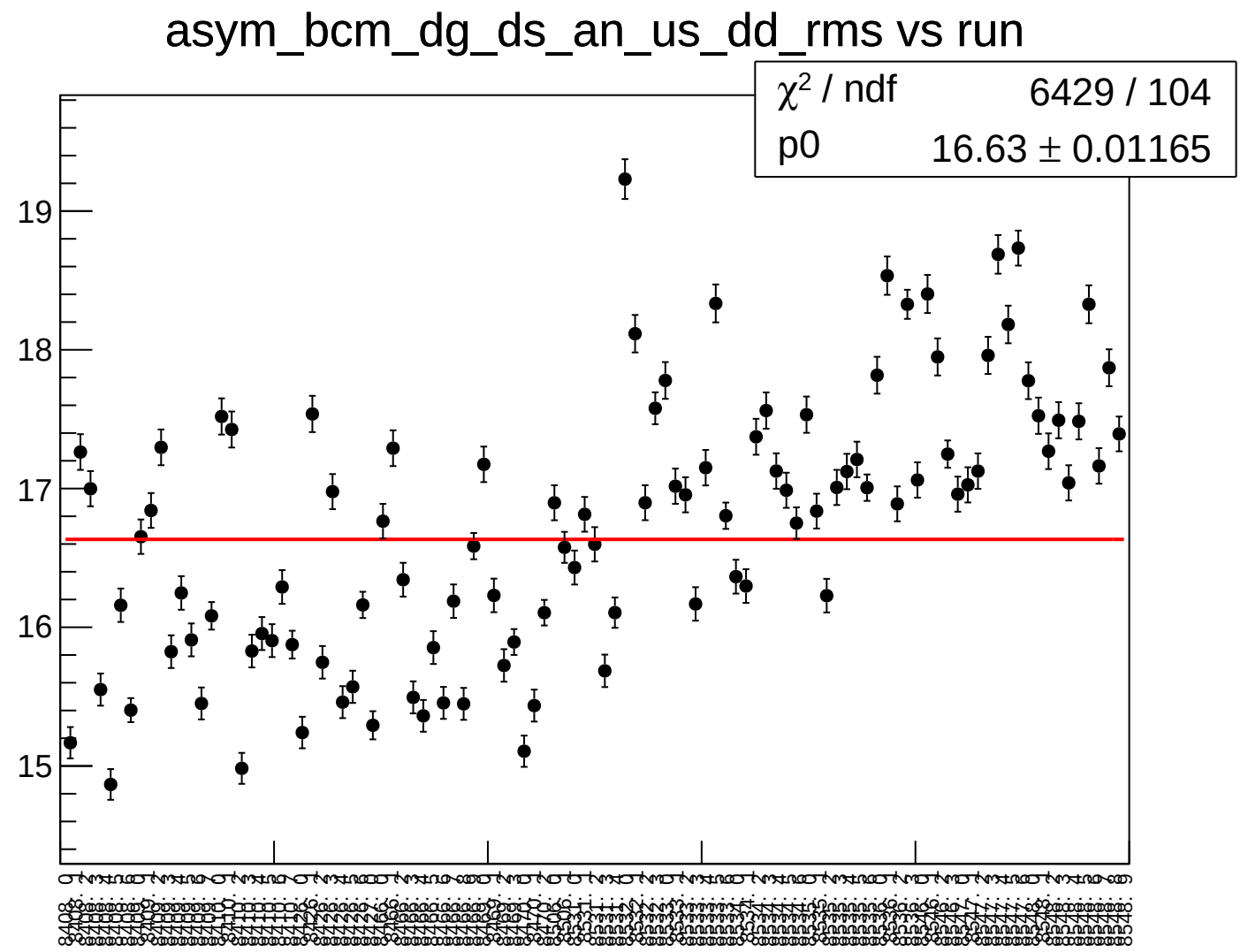
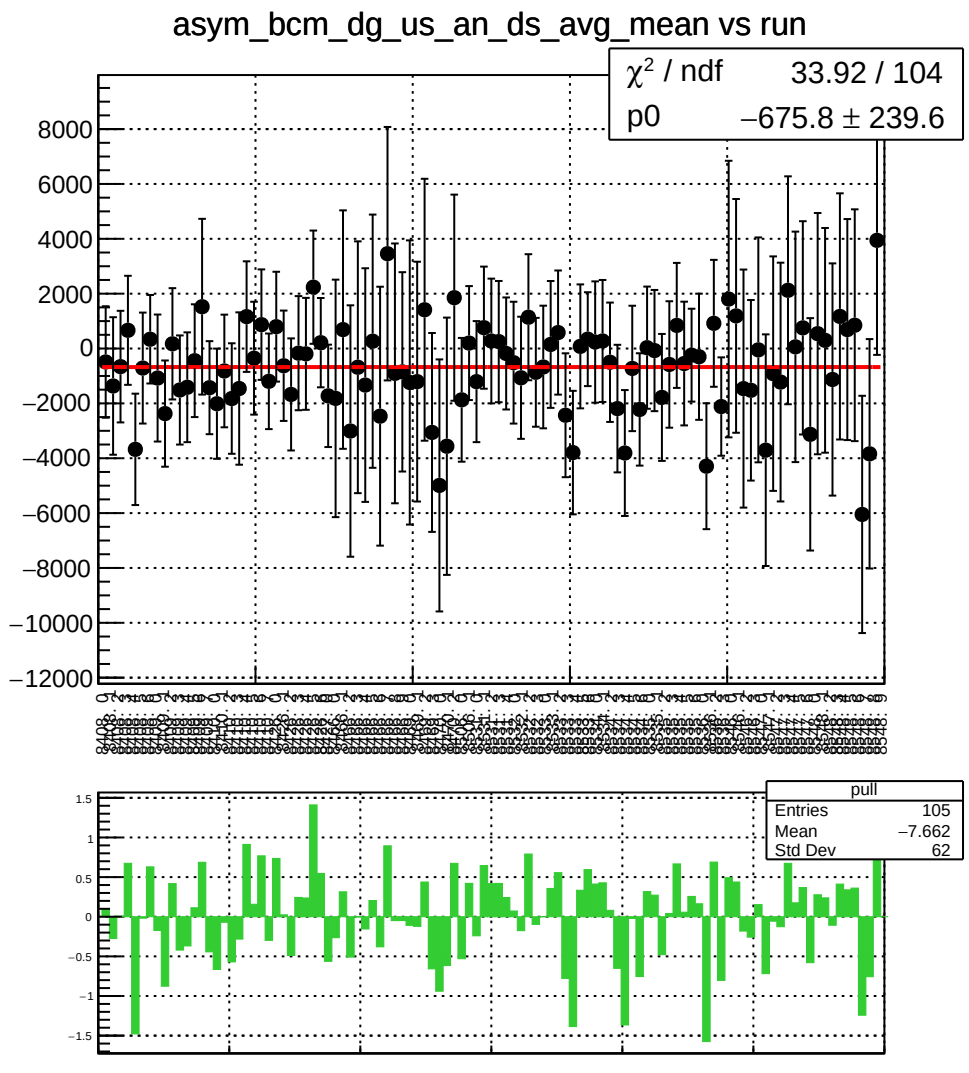
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

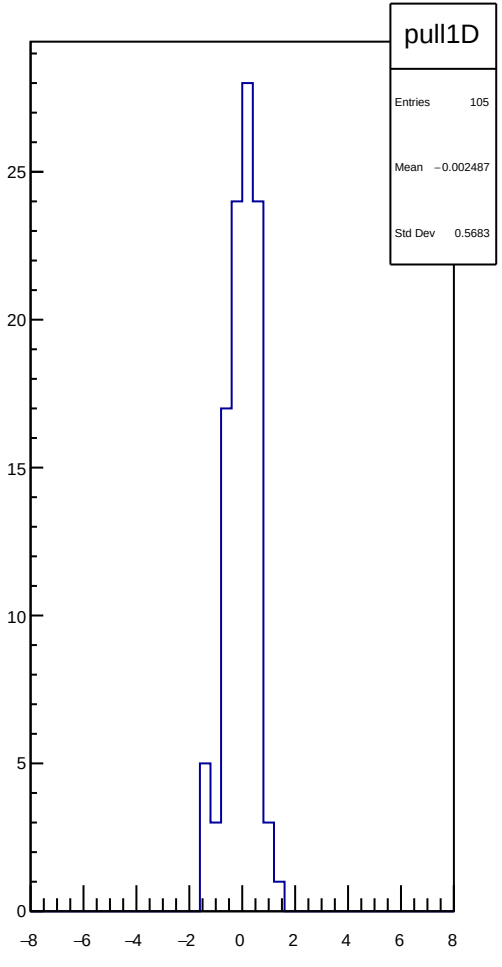

asym_bcm_dg_ds_an_us_avg_rms vs run
χ² / ndf 1.773e+05 / 104
p0 231.8 ± 0.1695
500
450
400
350
300
250
200

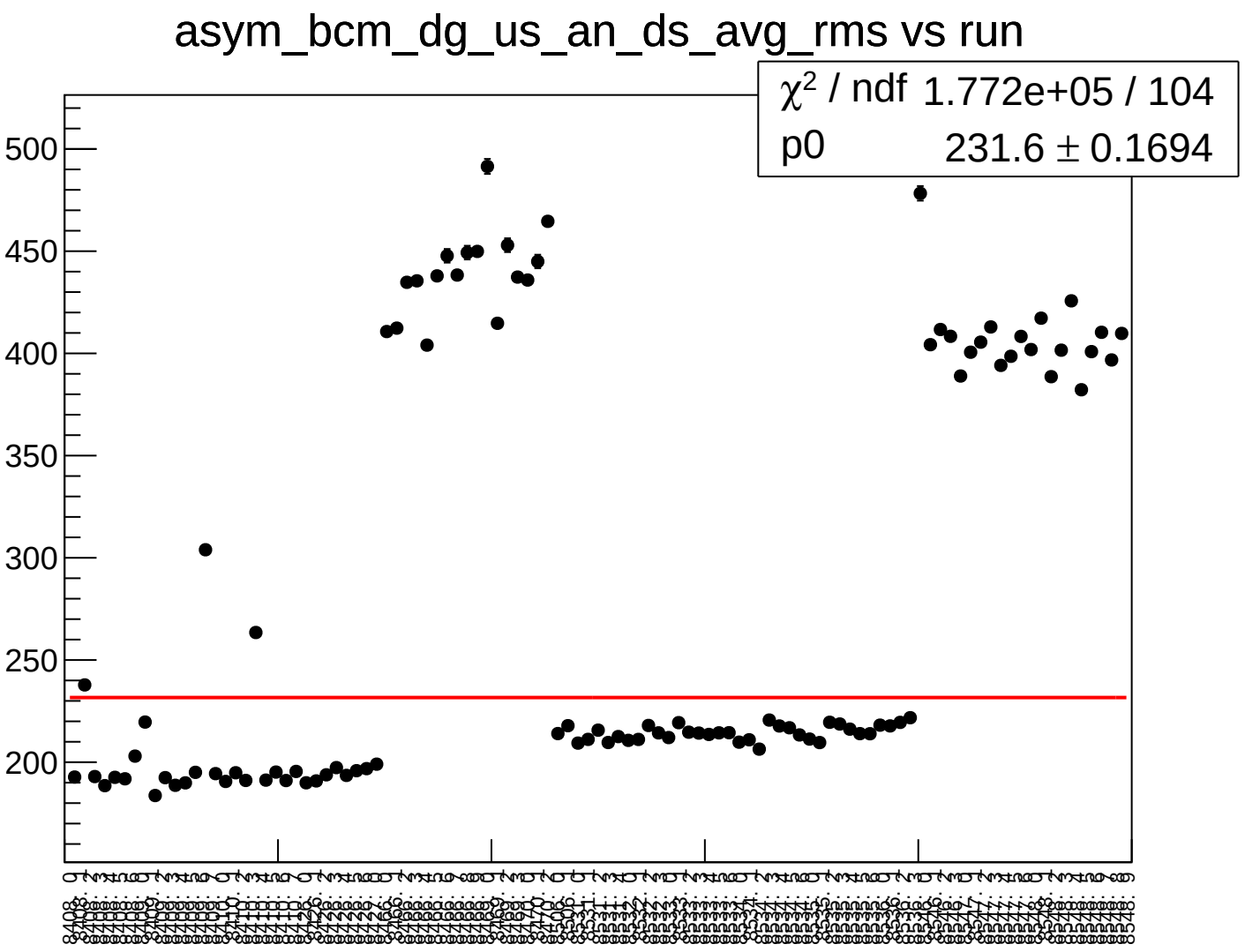

asym_bcm_dg_ds_an_us_dd_mean vs run
χ² / ndf 97.37 / 104
p0 27.18 ± 16.47
pull
Entries 105
Mean −45.44
Std Dev 279.6

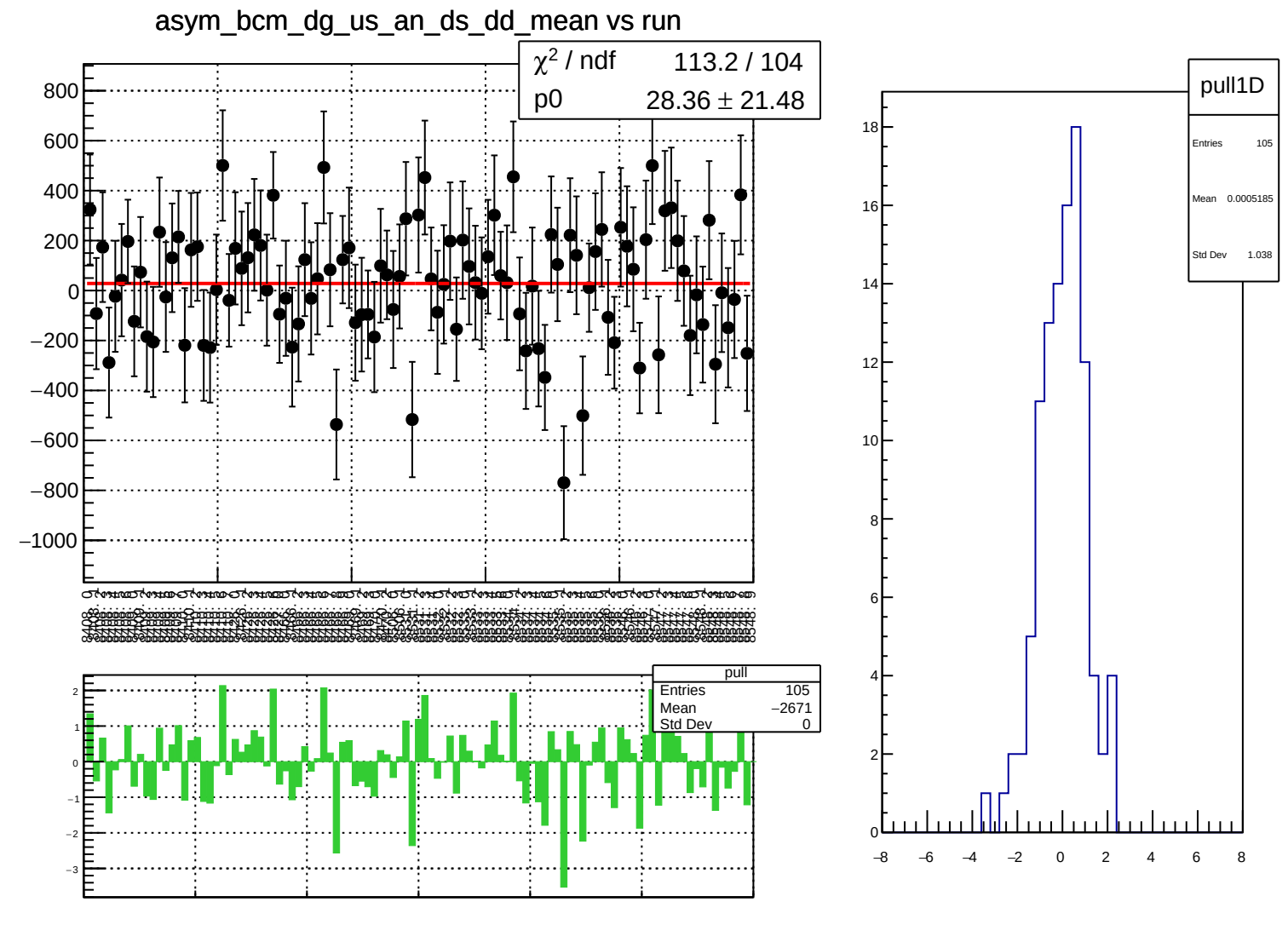

pull1D
Entries 105
Mean −0.002453
Std Dev 0.963

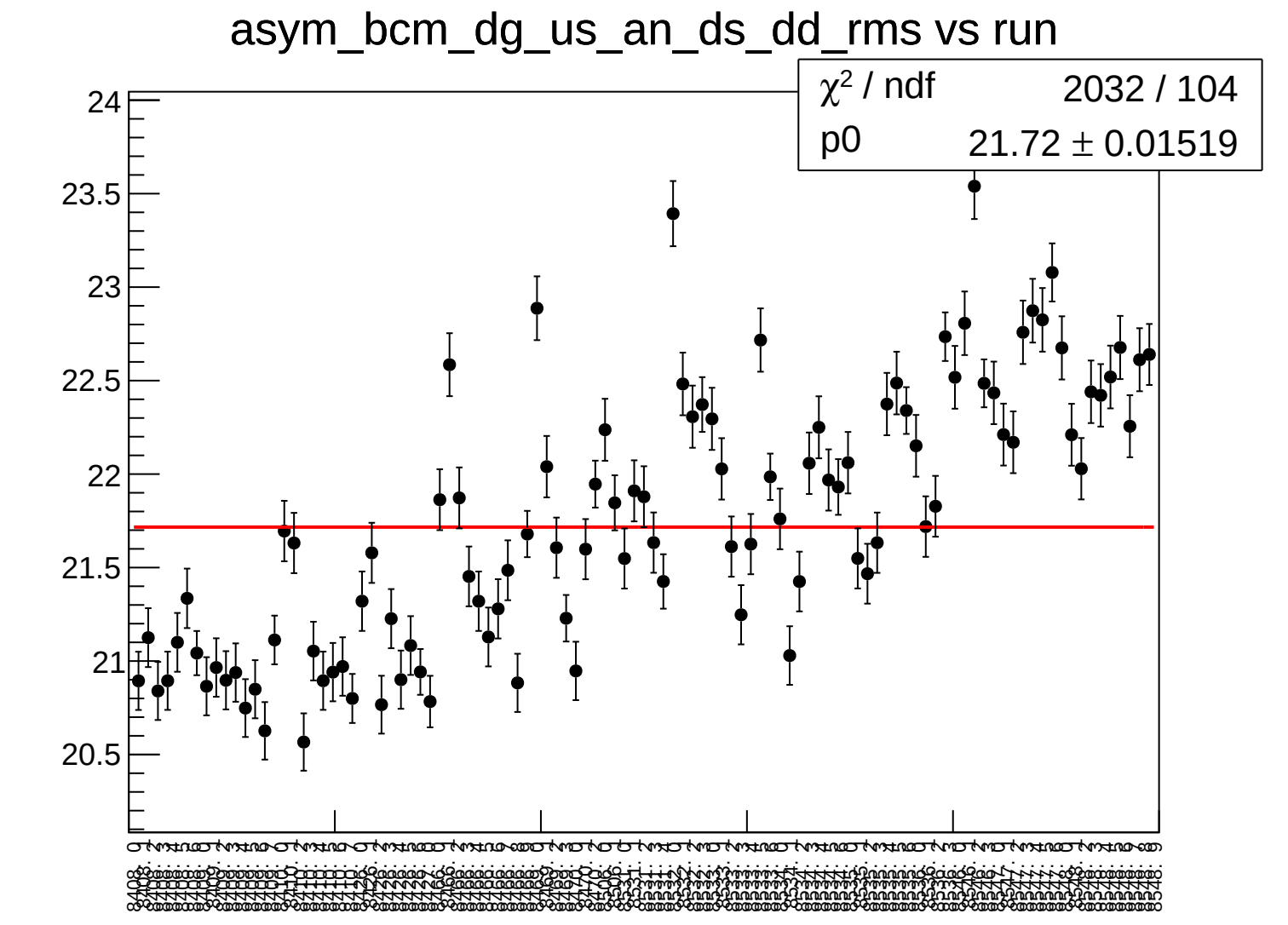

asym_bcm_dg_ds_an_us_dd_rms vs run
χ² / ndf 6429 / 104
p0 16.63 ± 0.01165
19
18
17
16
15

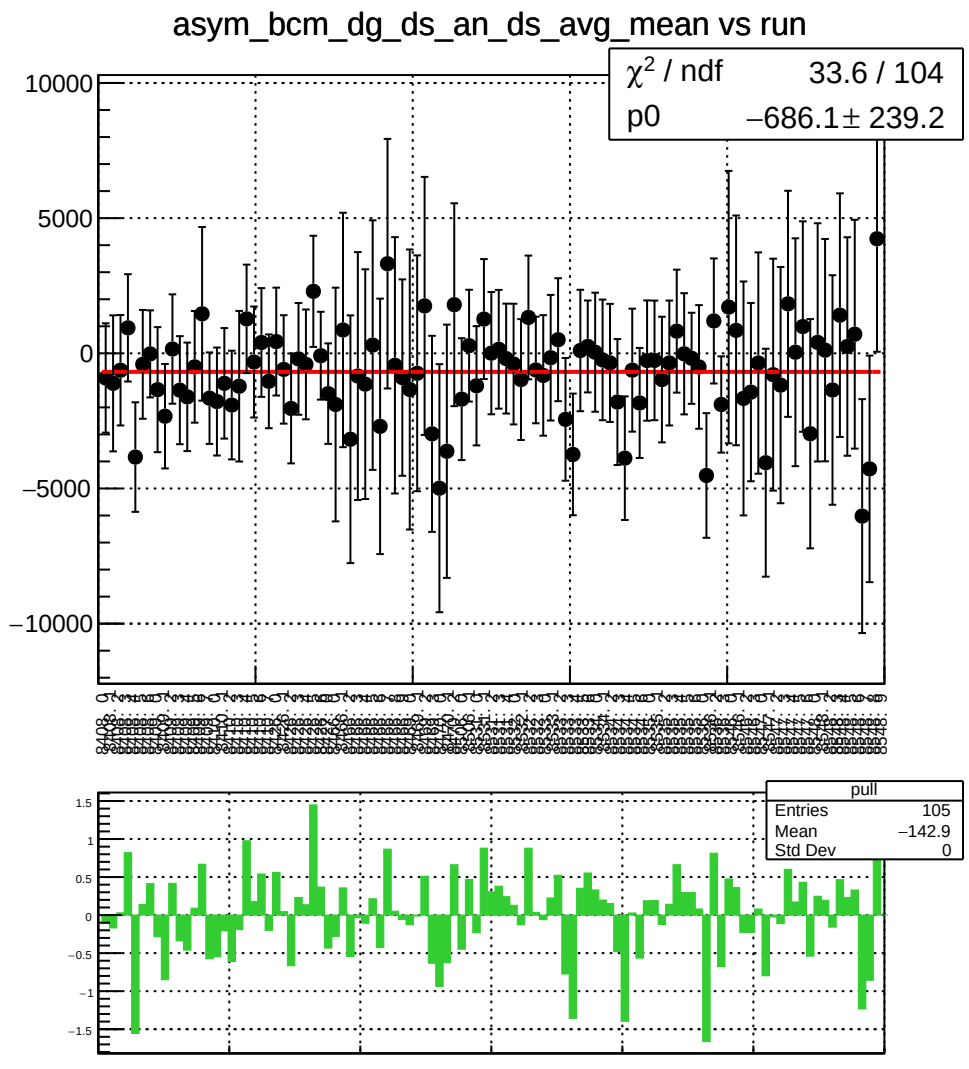

asym_bcm_dg_us_an_ds_avg_mean vs run
χ² / ndf 33.92 / 104
p0 −675.8 ± 239.6
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
pull
Entries 105
Mean −7.662
Std Dev 62
1.5
1
0.5
0
−0.5
−1
−1.5

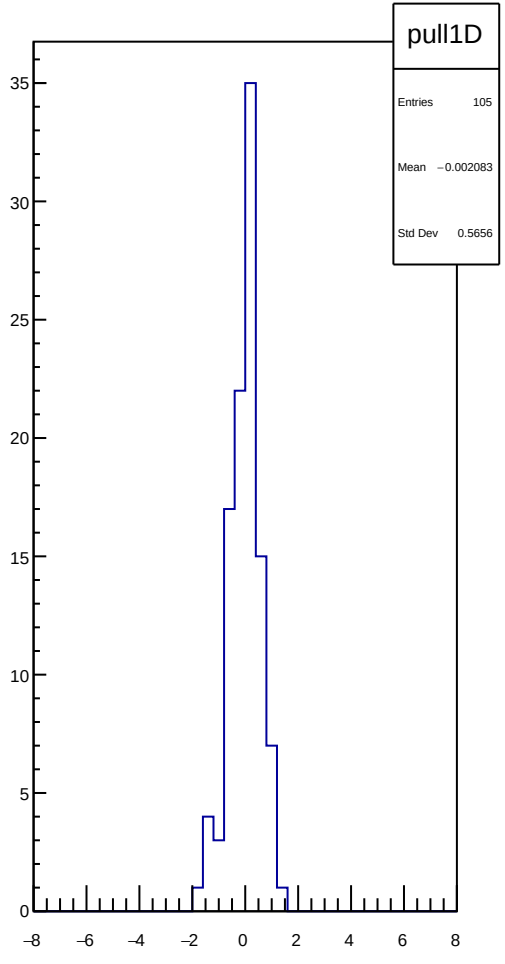

pull1D
Entries 105
Mean −0.002487
Std Dev 0.5683
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_us_an_ds_avg_rms vs run
χ² / ndf 1.772e+05 / 104
p0 231.6 ± 0.1694
500
450
400
350
300
250
200


asym_bcm_dg_us_an_ds_dd_mean vs run
χ² / ndf 113.2 / 104
p0 28.36 ± 21.48
800
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 105
Mean −2671
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 105
Mean 0.0005185
Std Dev 1.038
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_dg_us_an_ds_dd_rms vs run
χ² / ndf 2032 / 104
p0 21.72 ± 0.01519
24
23.5
23
22.5
22
21.5
21
20.5


asym_bcm_dg_ds_an_ds_avg_mean vs run
χ² / ndf 33.6 / 104
p0 −686.1± 239.2
10000
5000
0
−5000
−10000
pull
Entries 105
Mean −142.9
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 105
Mean −0.002083
Std Dev 0.5656
35
30
25
20
15
10
5
0
−8
−6
−4
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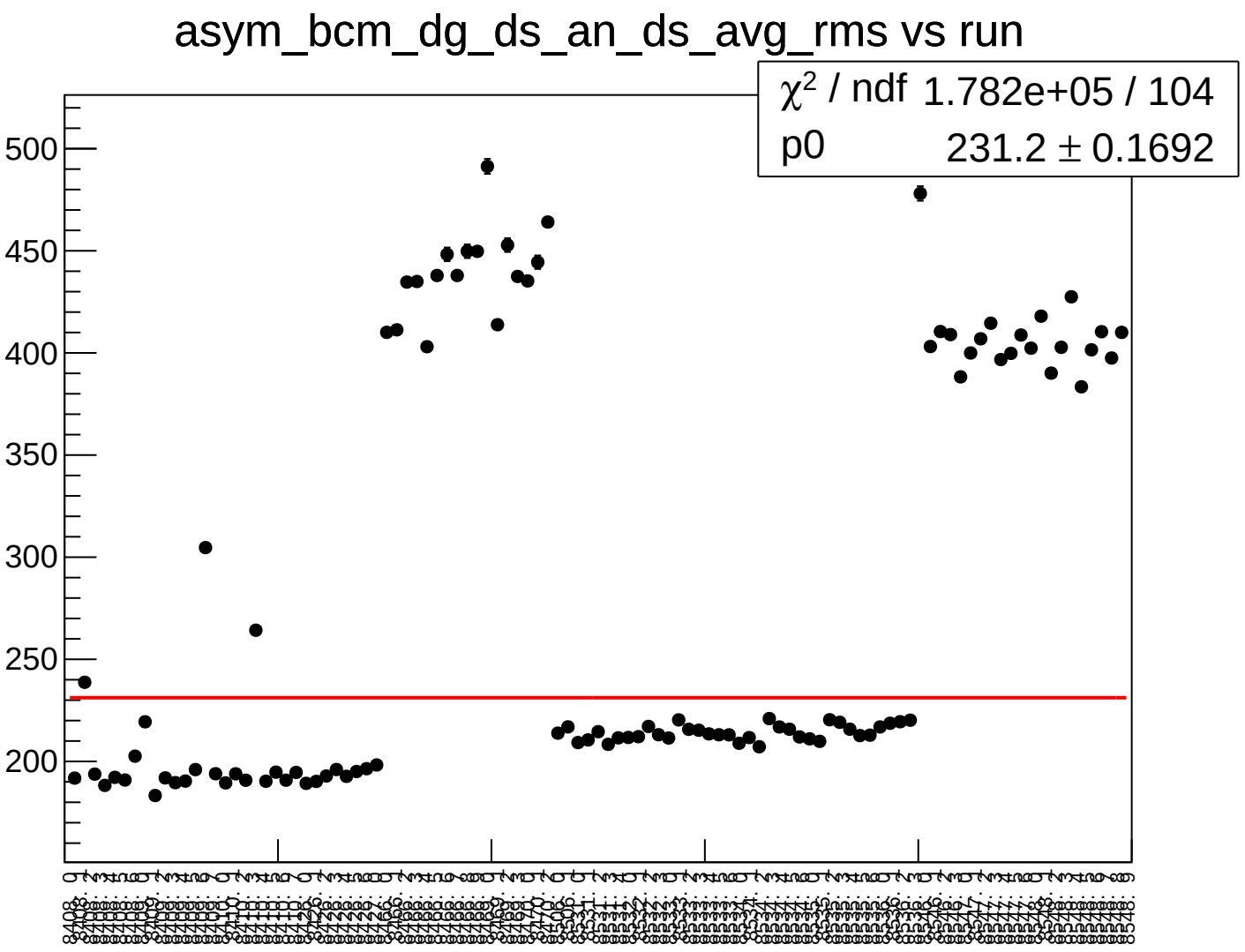
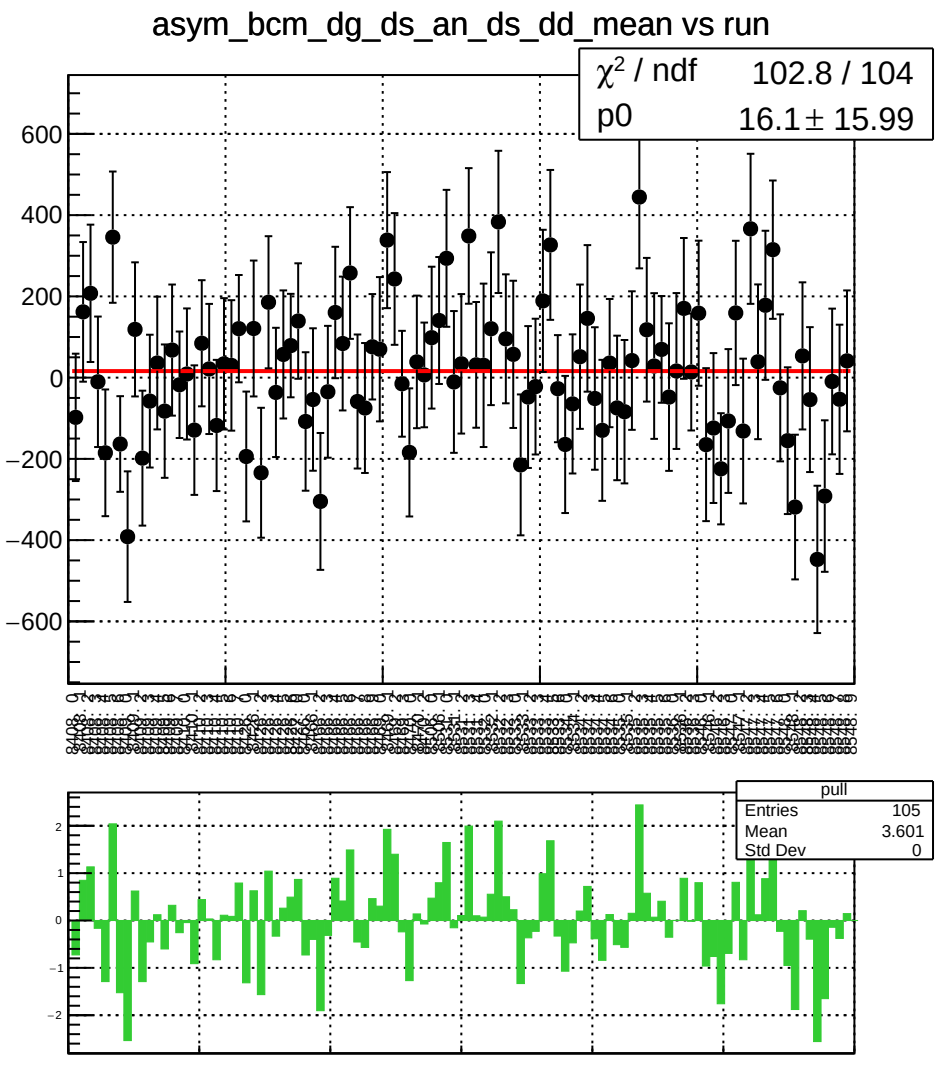
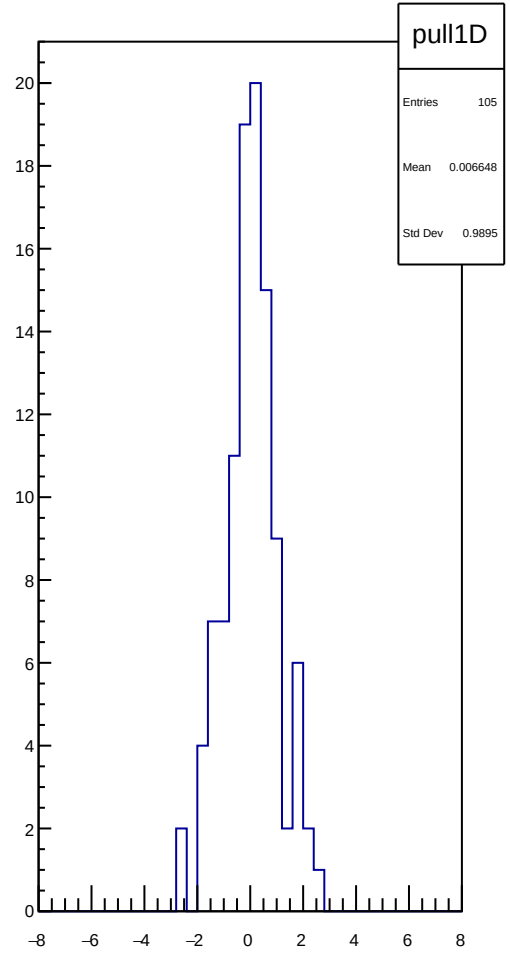
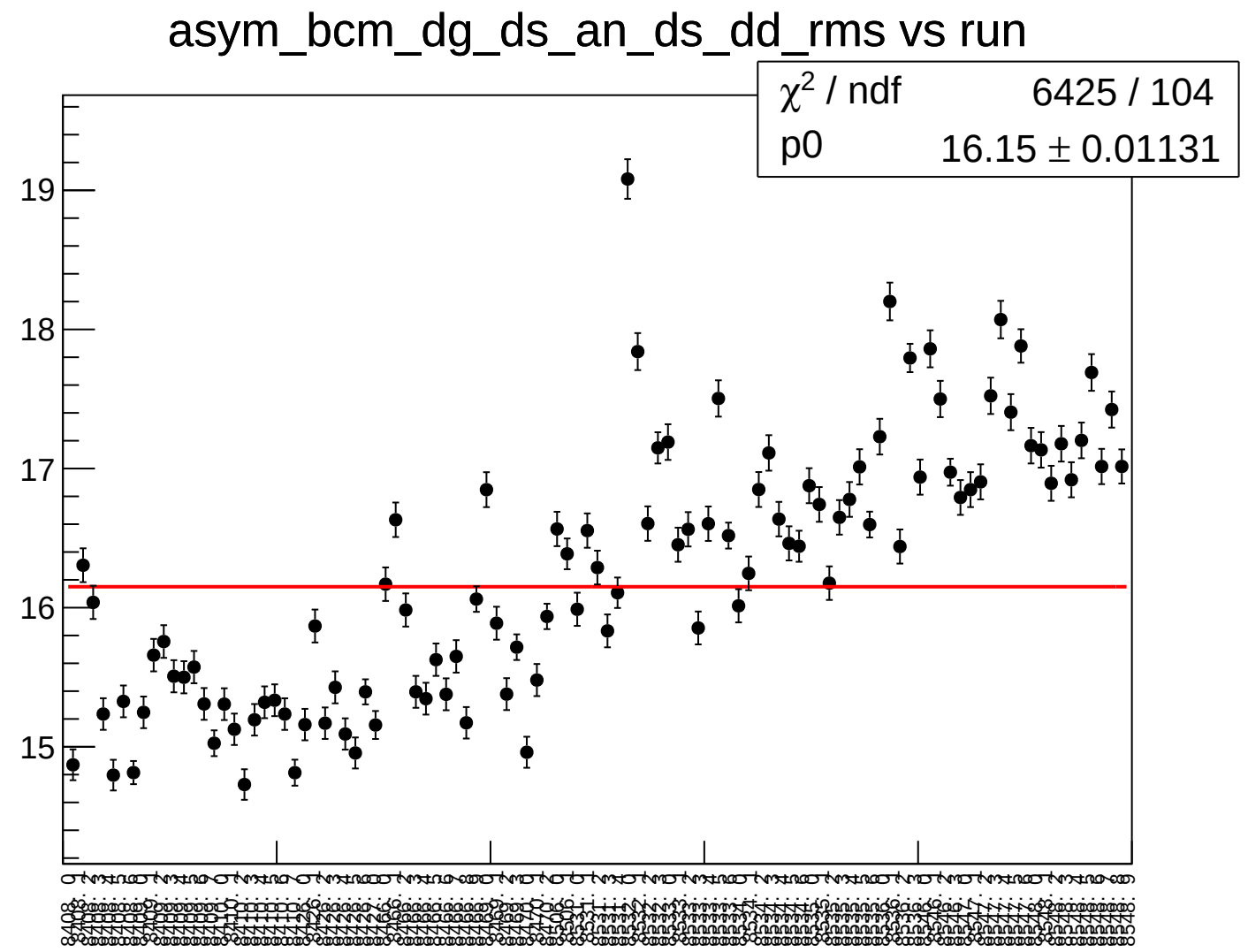
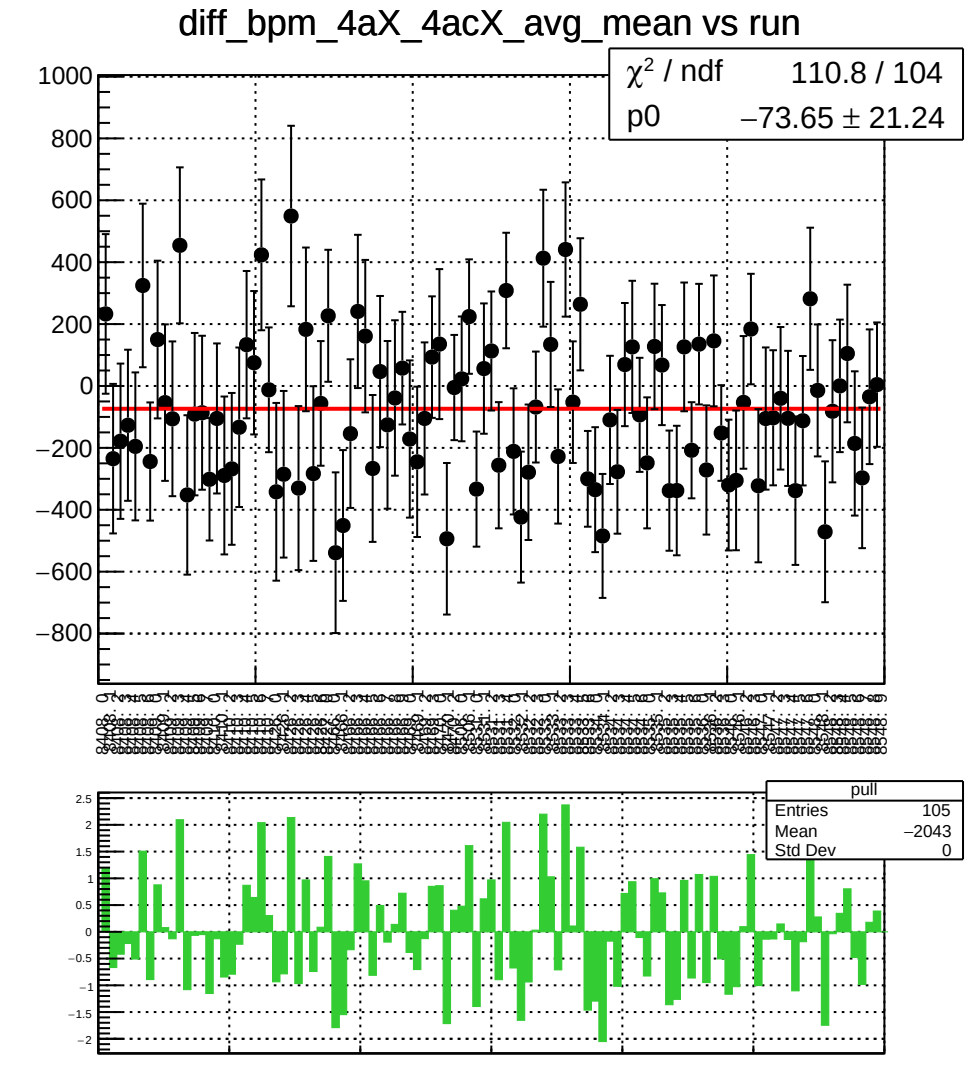
2
4
6
8

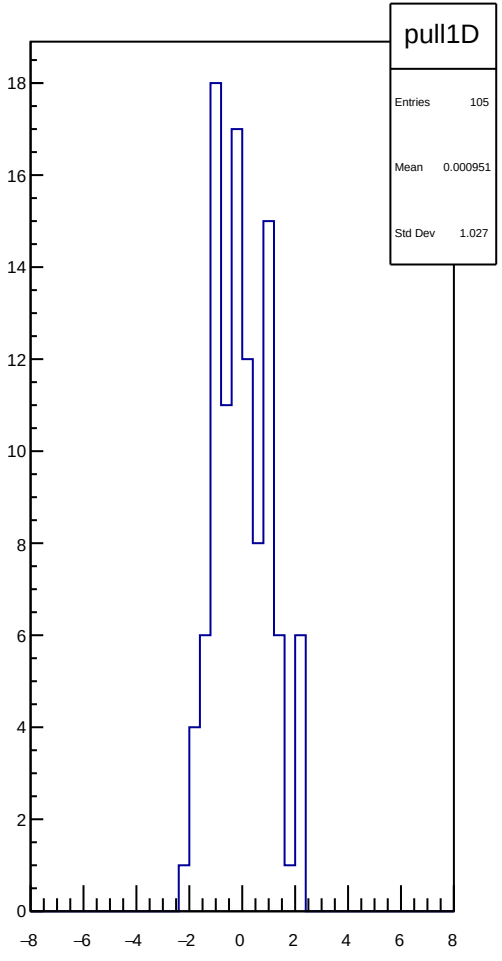

asym_bcm_dg_ds_an_ds_avg_rms vs run
χ² / ndf 1.782e+05 / 104
p0 231.2 ± 0.1692
500
450
400
350
300
250
200

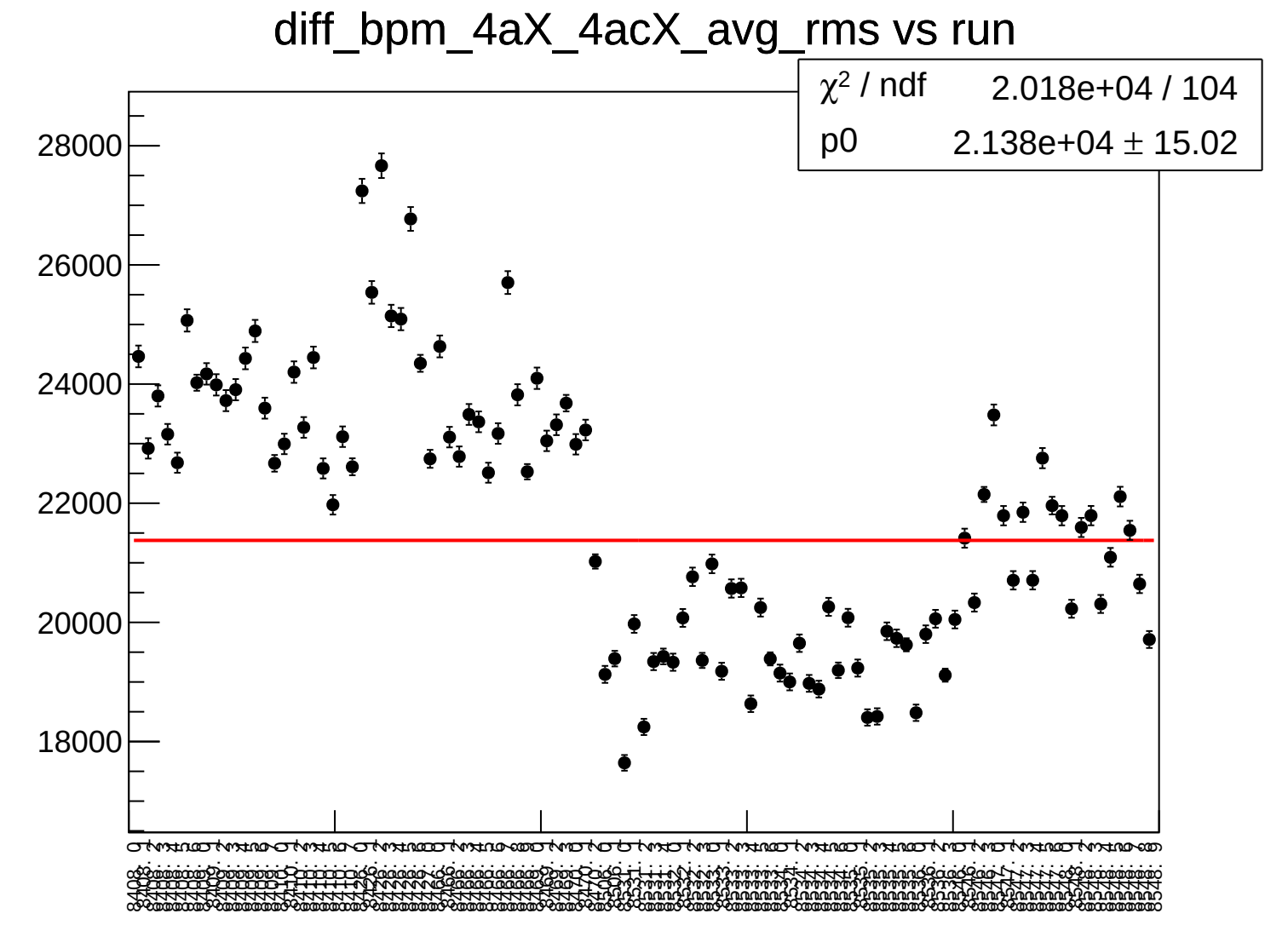

asym_bcm_dg_ds_an_ds_dd_mean vs run
χ² / ndf 102.8 / 104
p0 16.1 ± 15.99
pull
Entries 105
Mean 3.601
Std Dev 0

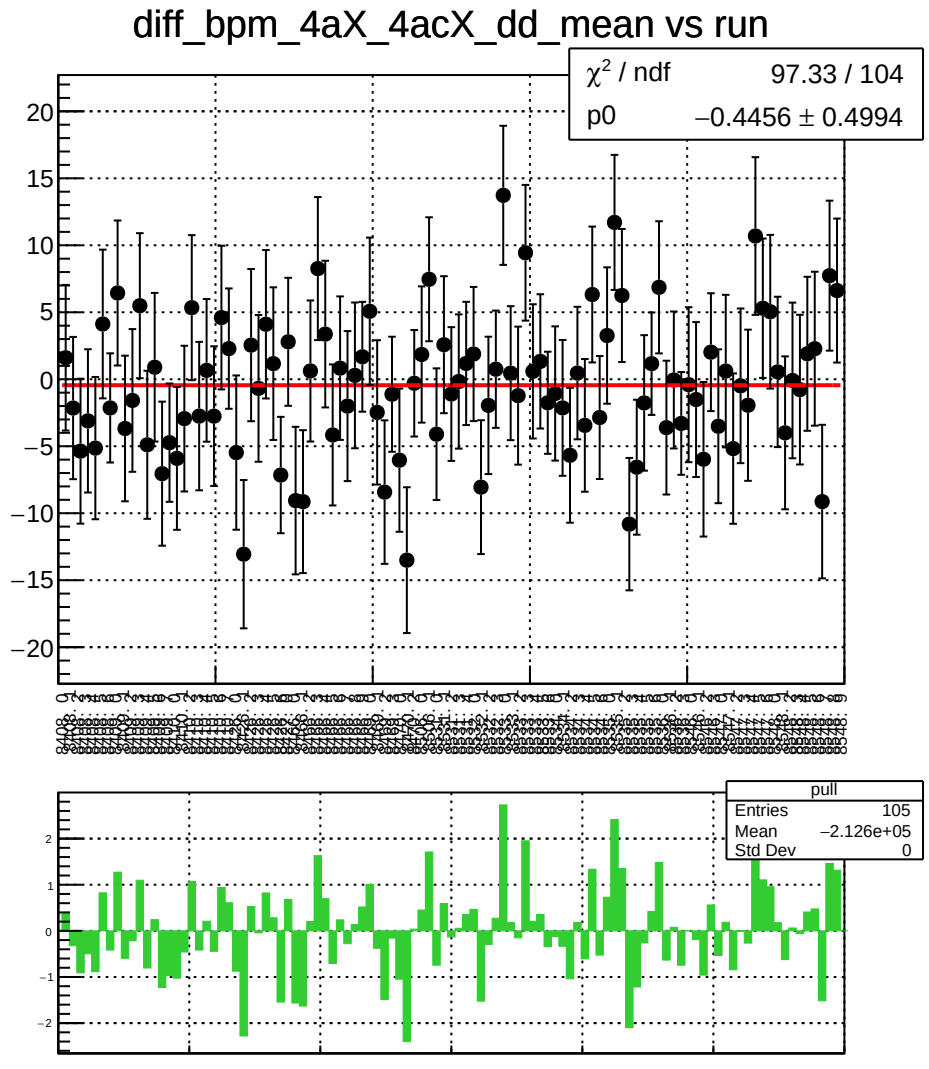

pull1D
Entries 105
Mean 0.006648
Std Dev 0.9895

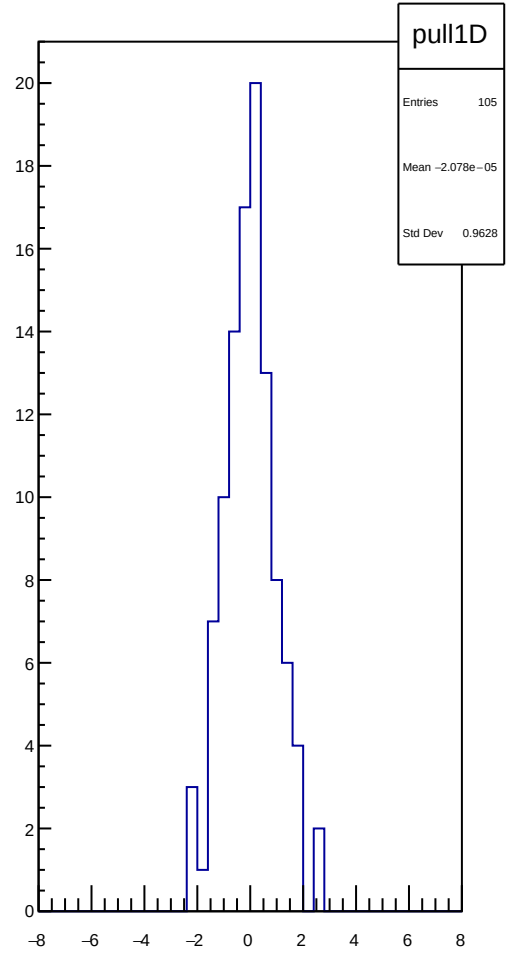

asym_bcm_dg_ds_an_ds_dd_rms vs run
χ² / ndf 6425 / 104
p0 16.15 ± 0.01131
19
18
17
16
15

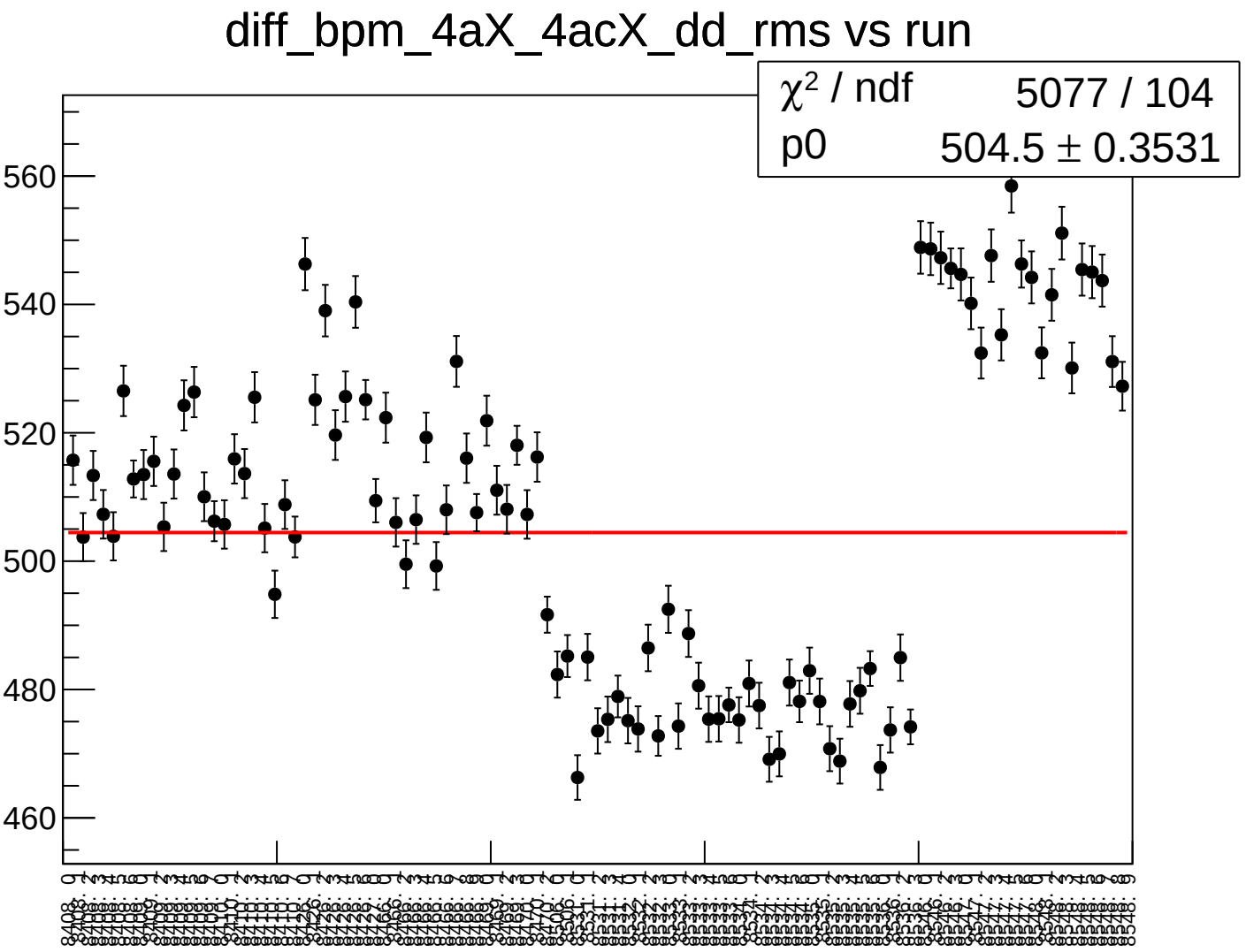

diff_bpm_4aX_4acX_avg_mean vs run
χ² / ndf 110.8 / 104
p0 −73.65 ± 21.24
1000
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 105
Mean −2043
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

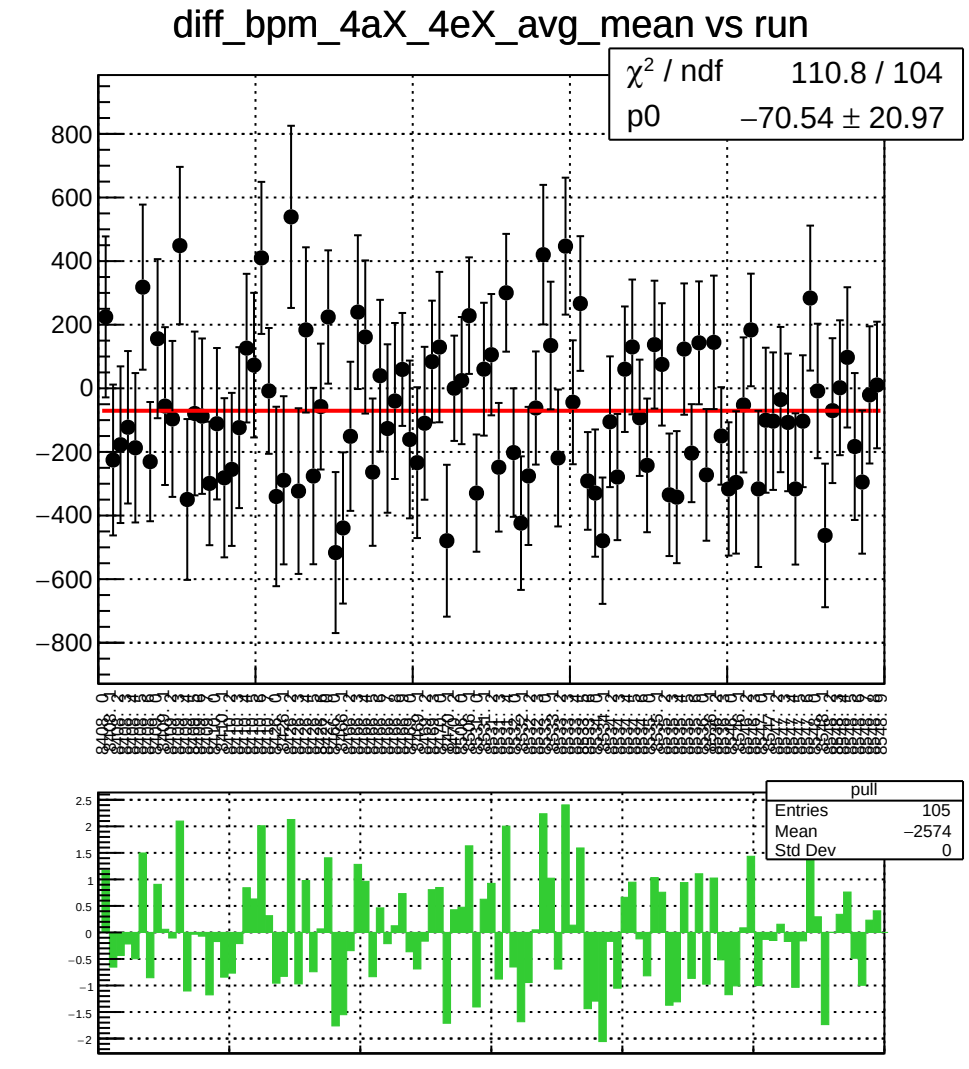

pull1D
Entries 105
Mean 0.000951
Std Dev 1.027
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

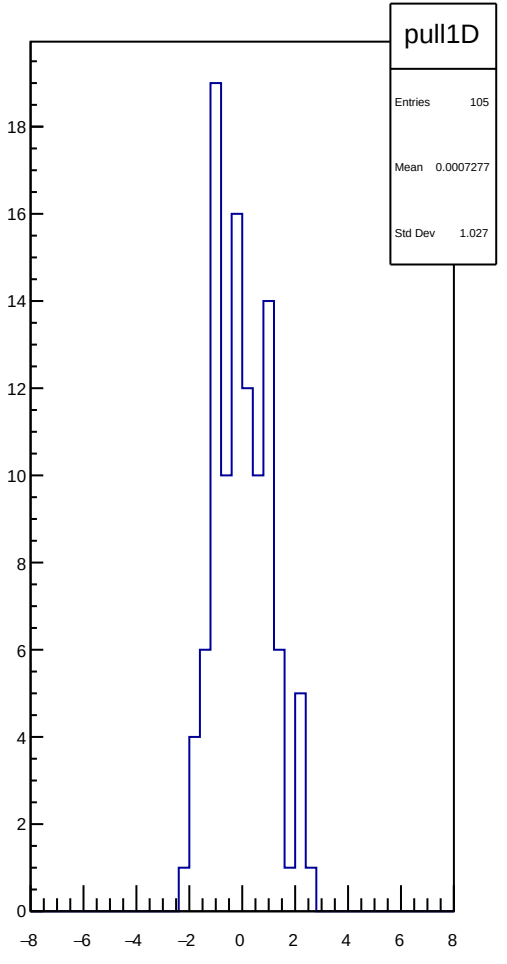

diff_bpm_4aX_4acX_avg_rms vs run
χ² / ndf 2.018e+04 / 104
p0 2.138e+04 ± 15.02
28000
26000
24000
22000
20000
18000

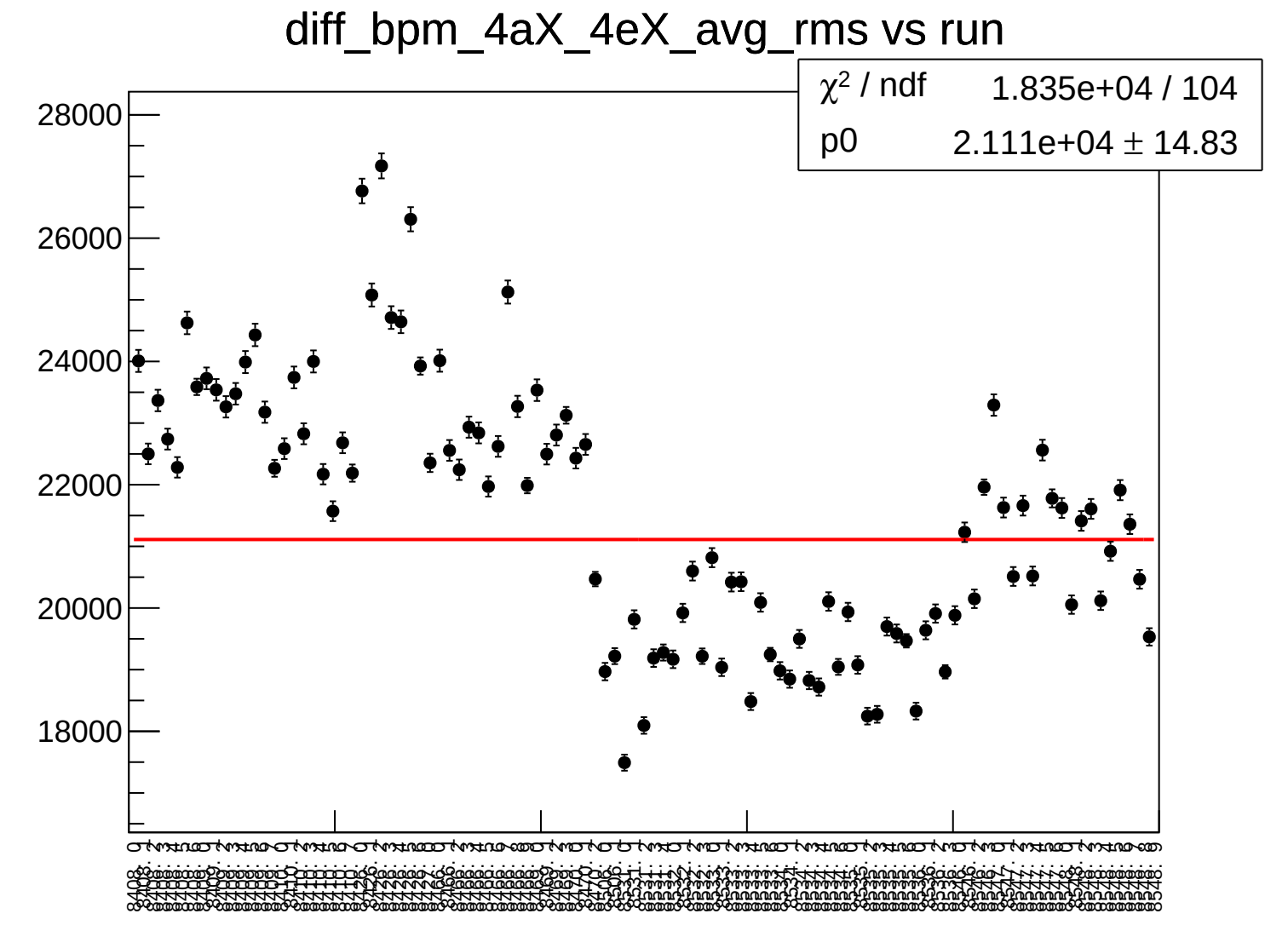

diff_bpm_4aX_4acX_dd_mean vs run
χ² / ndf 97.33 / 104
p0 −0.4456 ± 0.4994
pull
Entries 105
Mean −2.126e+05
Std Dev 0

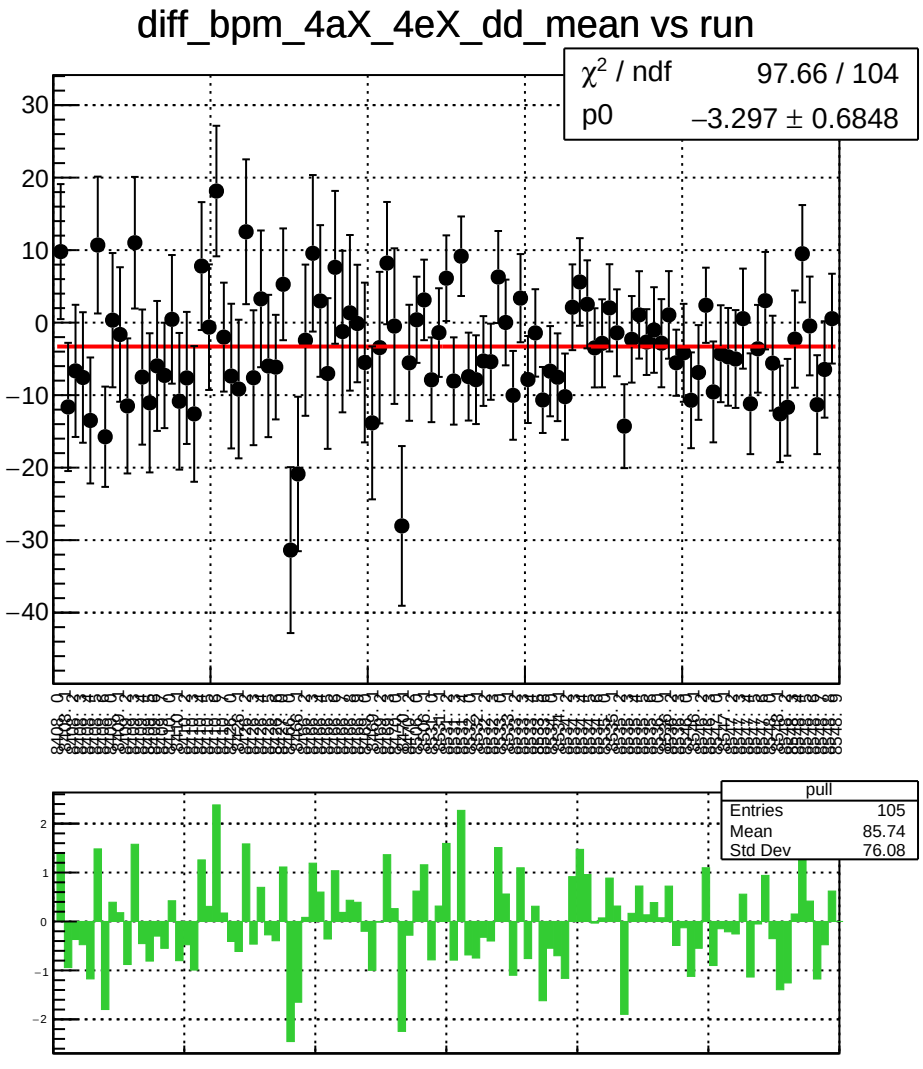

pull1D
Entries 105
Mean −2.078e−05
Std Dev 0.9628

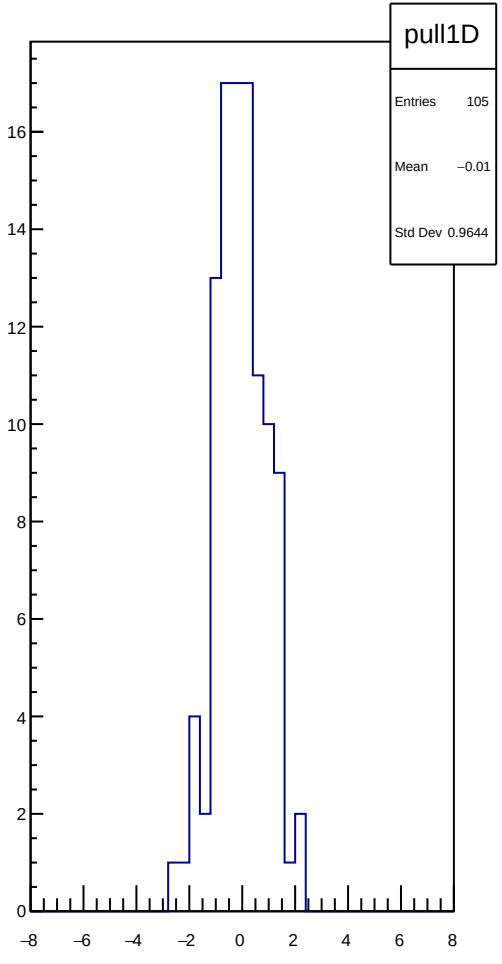

diff_bpm_4aX_4acX_dd_rms vs run
χ² / ndf 5077 / 104
p0 504.5 ± 0.3531
560
540
520
500
480
460

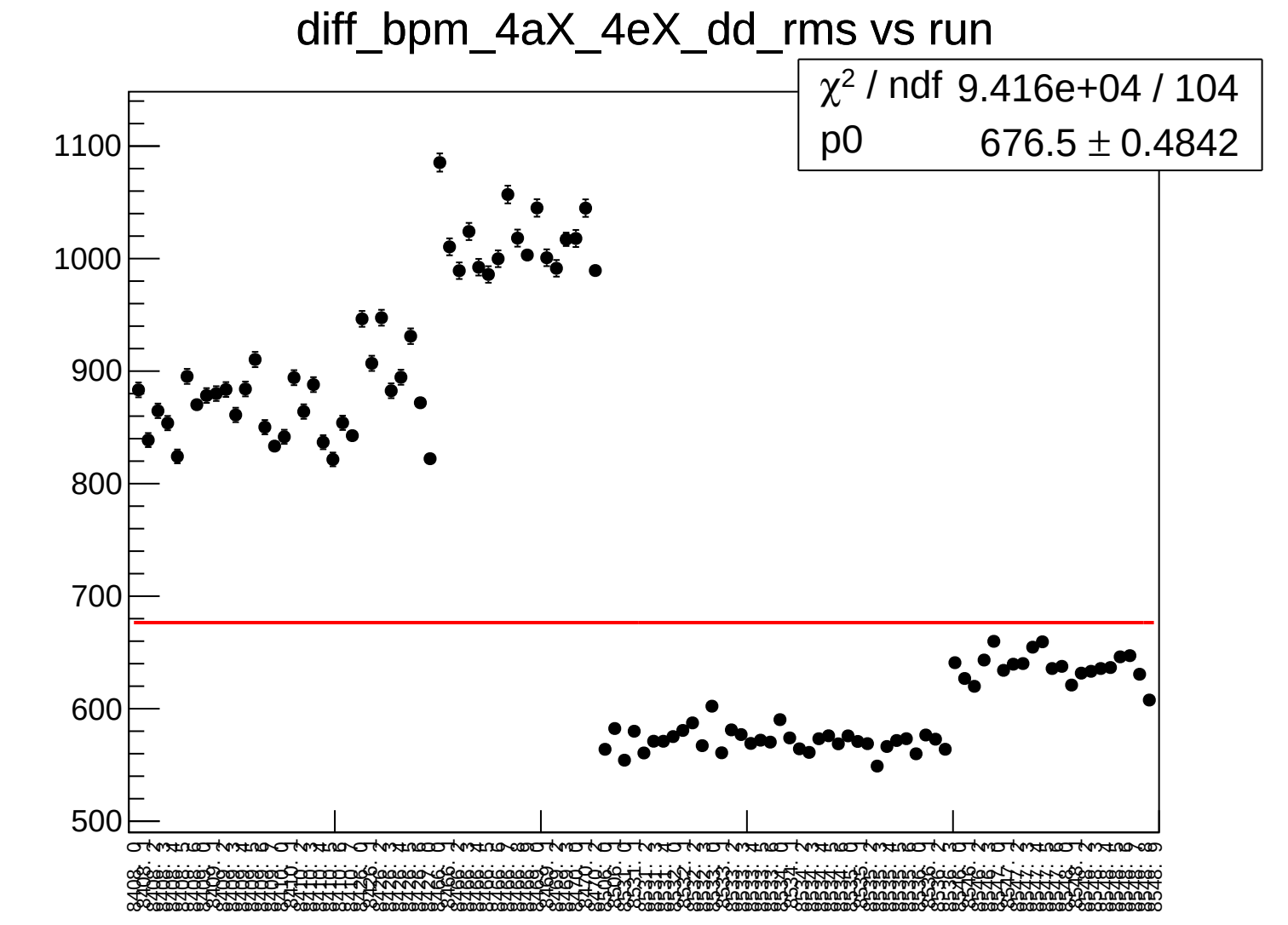

diff_bpm_4aX_4eX_avg_mean vs run
χ² / ndf 110.8 / 104
p0 −70.54 ± 20.97
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 105
Mean −2574
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

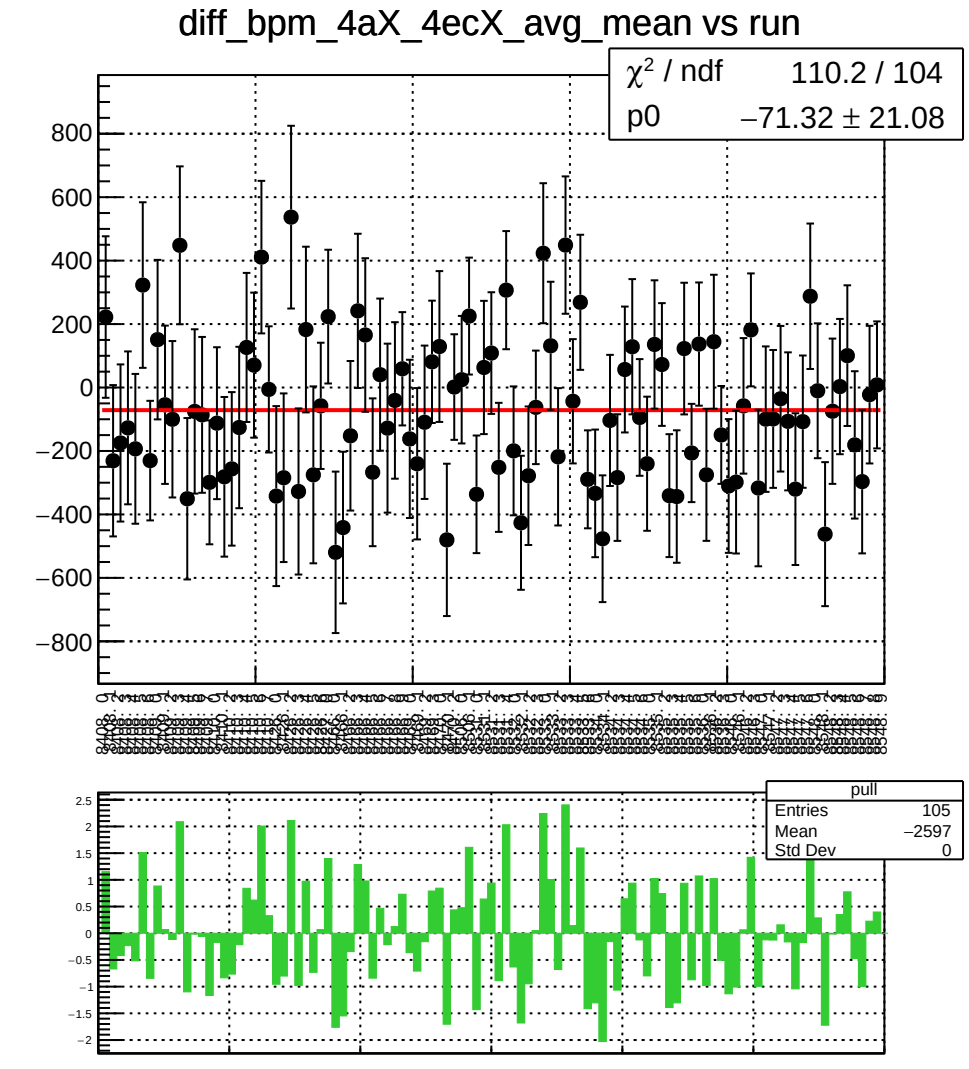

pull1D
Entries 105
Mean 0.0007277
Std Dev 1.027
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

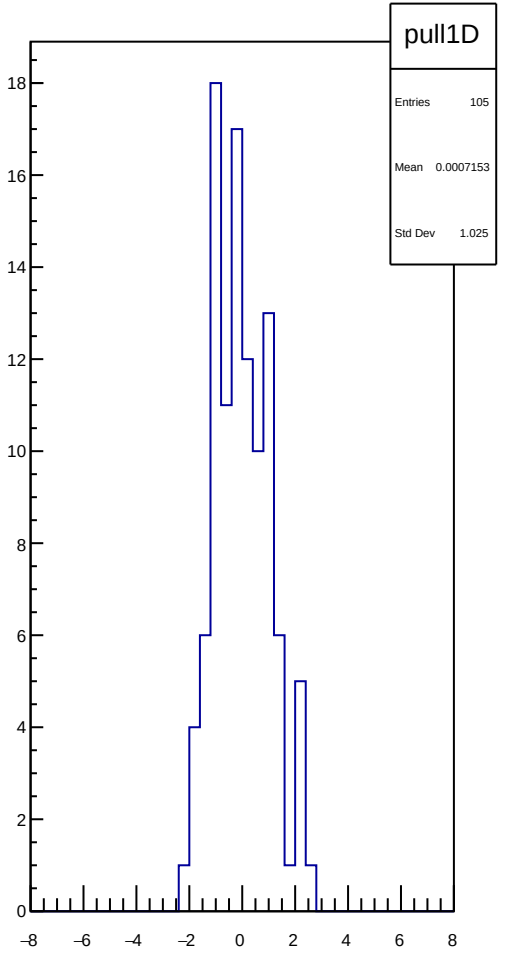

diff_bpm_4aX_4eX_avg_rms vs run
χ² / ndf 1.835e+04 / 104
p0 2.111e+04 ± 14.83
28000
26000
24000
22000
20000
18000

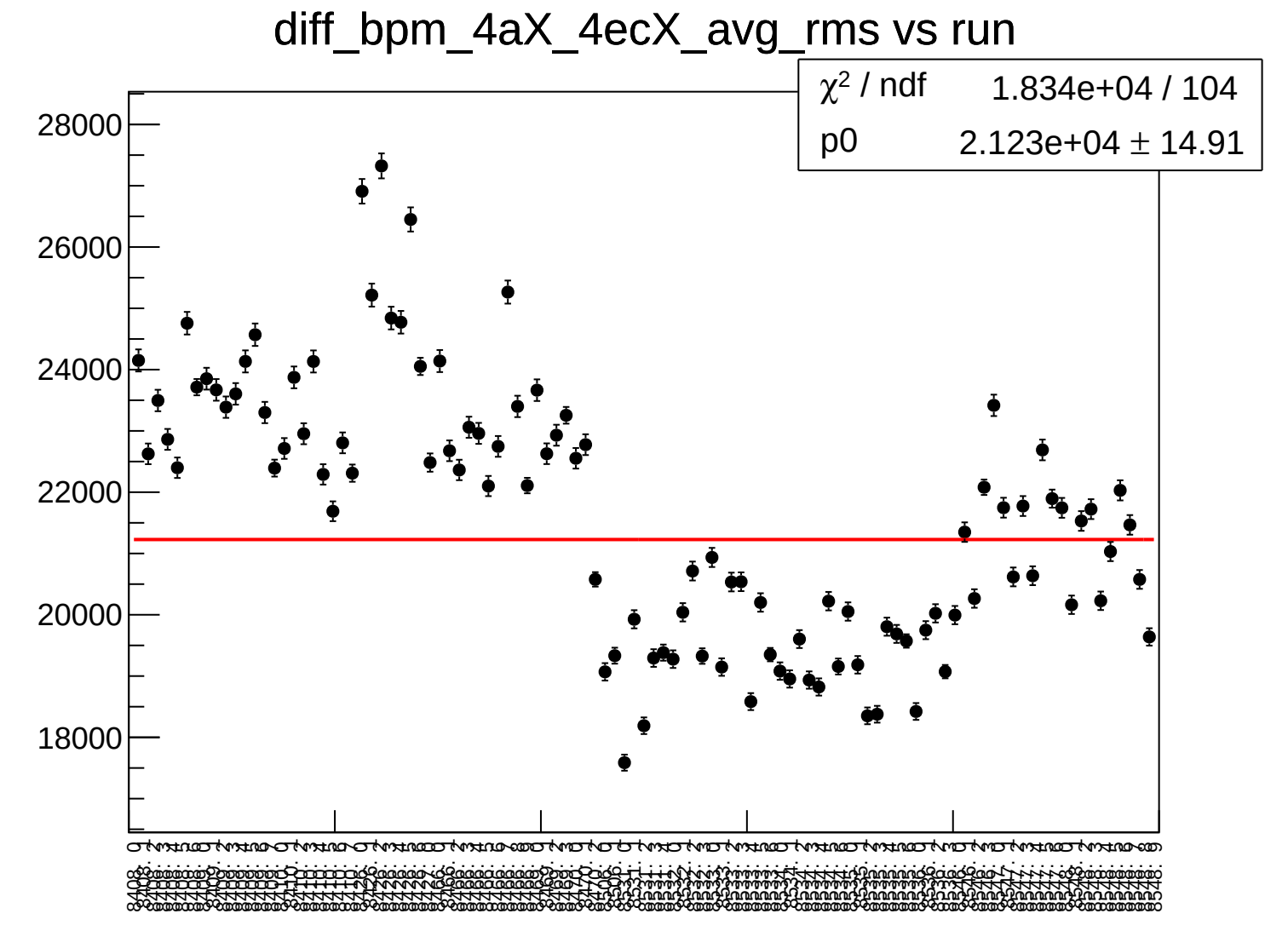

diff_bpm_4aX_4eX_dd_mean vs run
χ² / ndf 97.66 / 104
p0 −3.297 ± 0.6848
pull
Entries 105
Mean 85.74
Std Dev 76.08

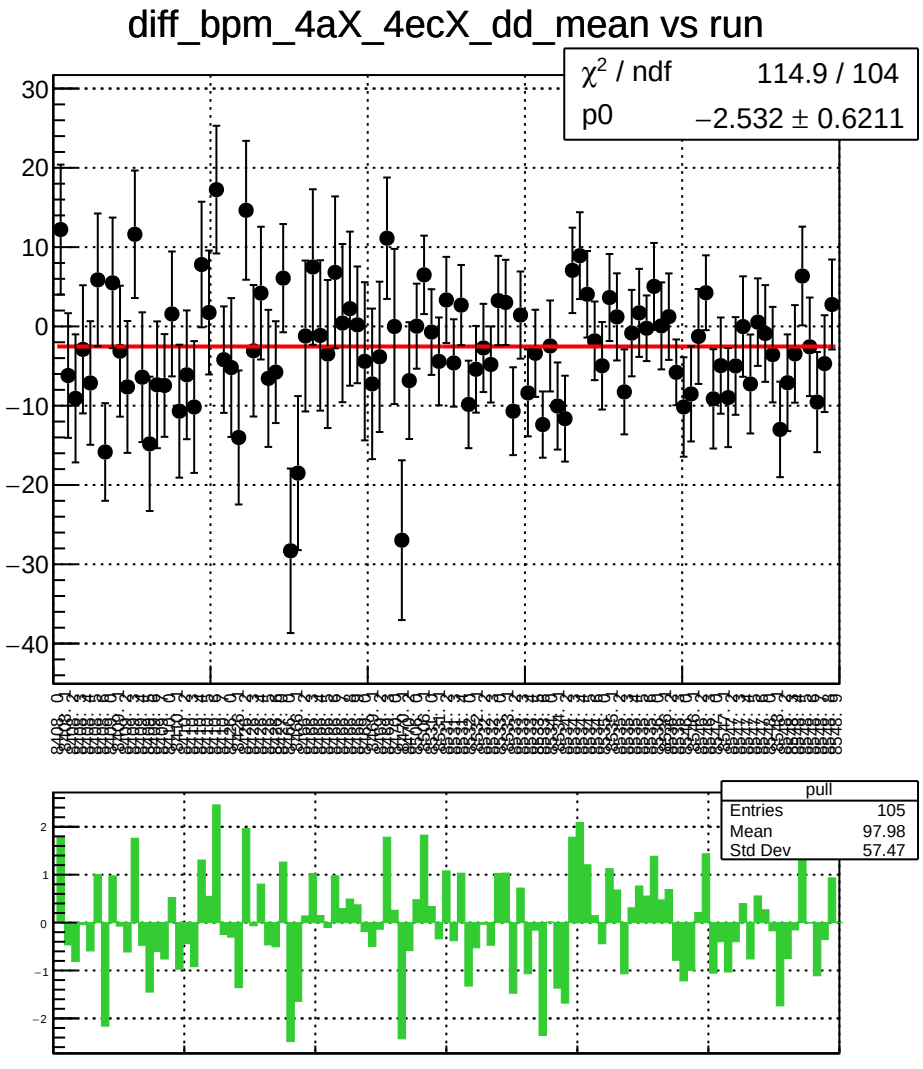

pull1D
Entries 105
Mean −0.01
Std Dev 0.9644

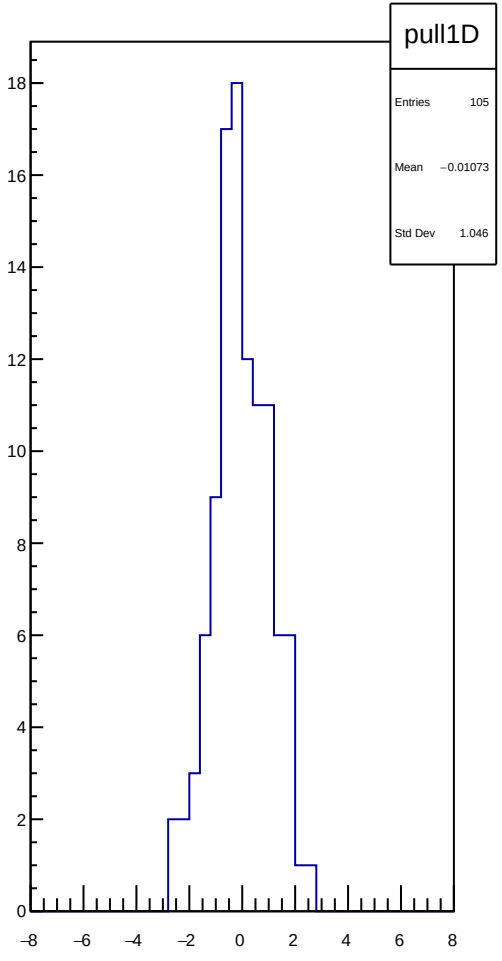

diff_bpm_4aX_4eX_dd_rms vs run
χ^2 / ndf 9.416e+04 / 104
p0 676.5 ± 0.4842
1100
1000
900
800
700
600
500

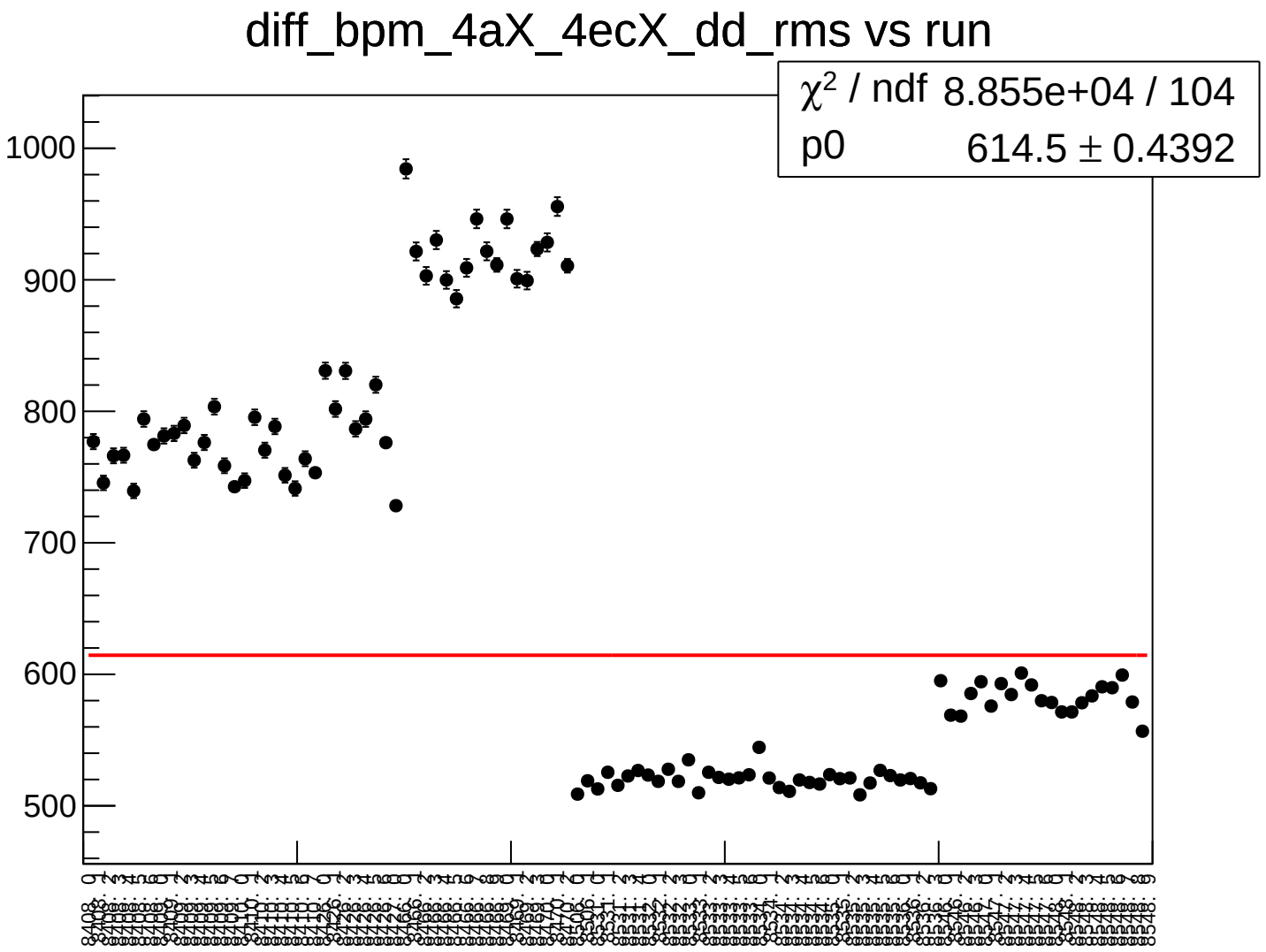

diff_bpm_4aX_4ecX_avg_mean vs run
χ² / ndf 110.2 / 104
p0 −71.32 ± 21.08
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 105
Mean −2597
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

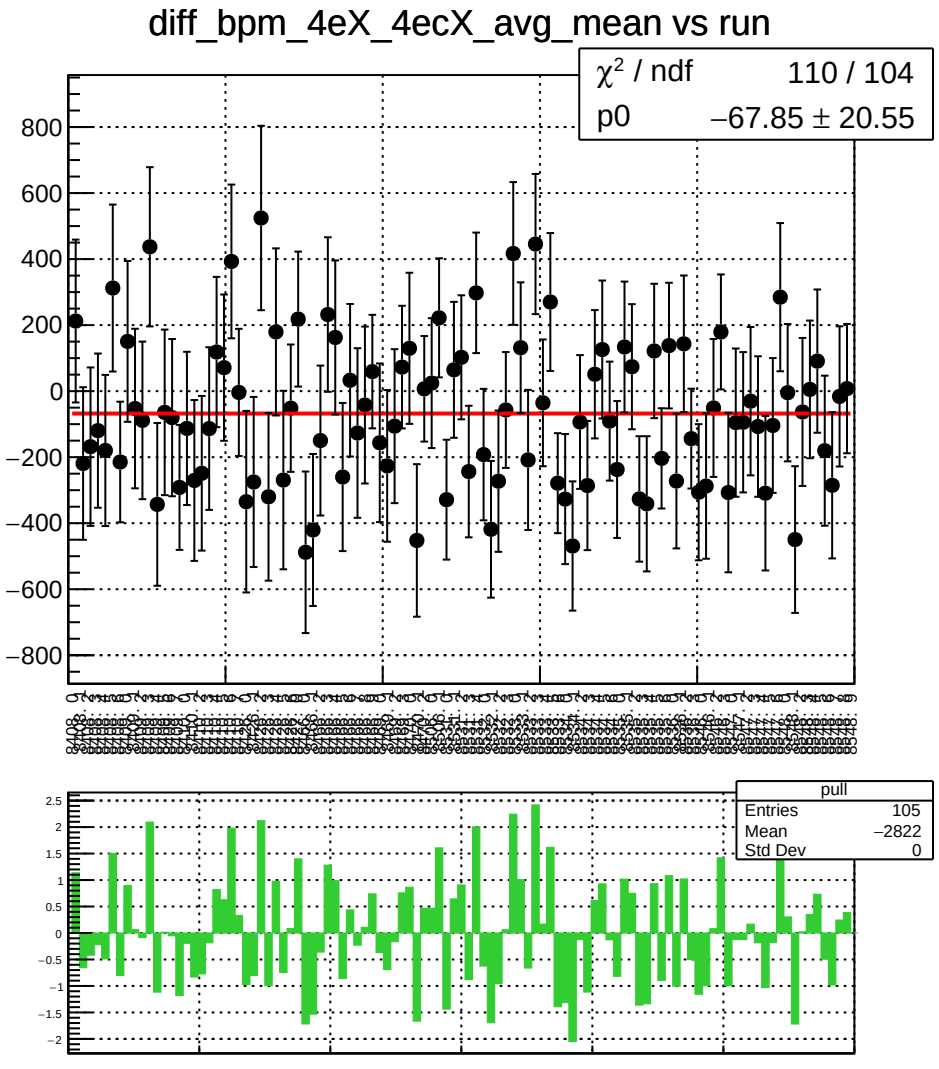

pull1D
Entries 105
Mean 0.0007153
Std Dev 1.025
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

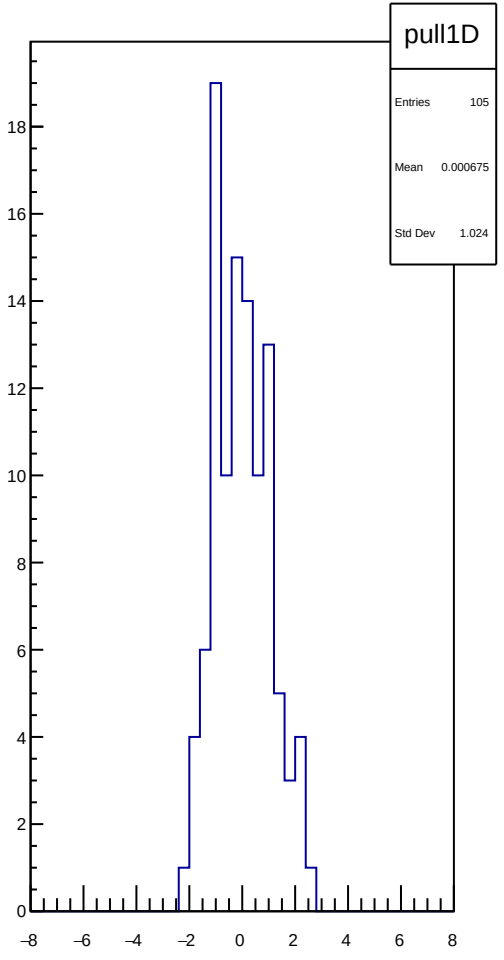

diff_bpm_4aX_4ecX_avg_rms vs run
χ² / ndf 1.834e+04 / 104
p0 2.123e+04 ± 14.91
28000
26000
24000
22000
20000
18000

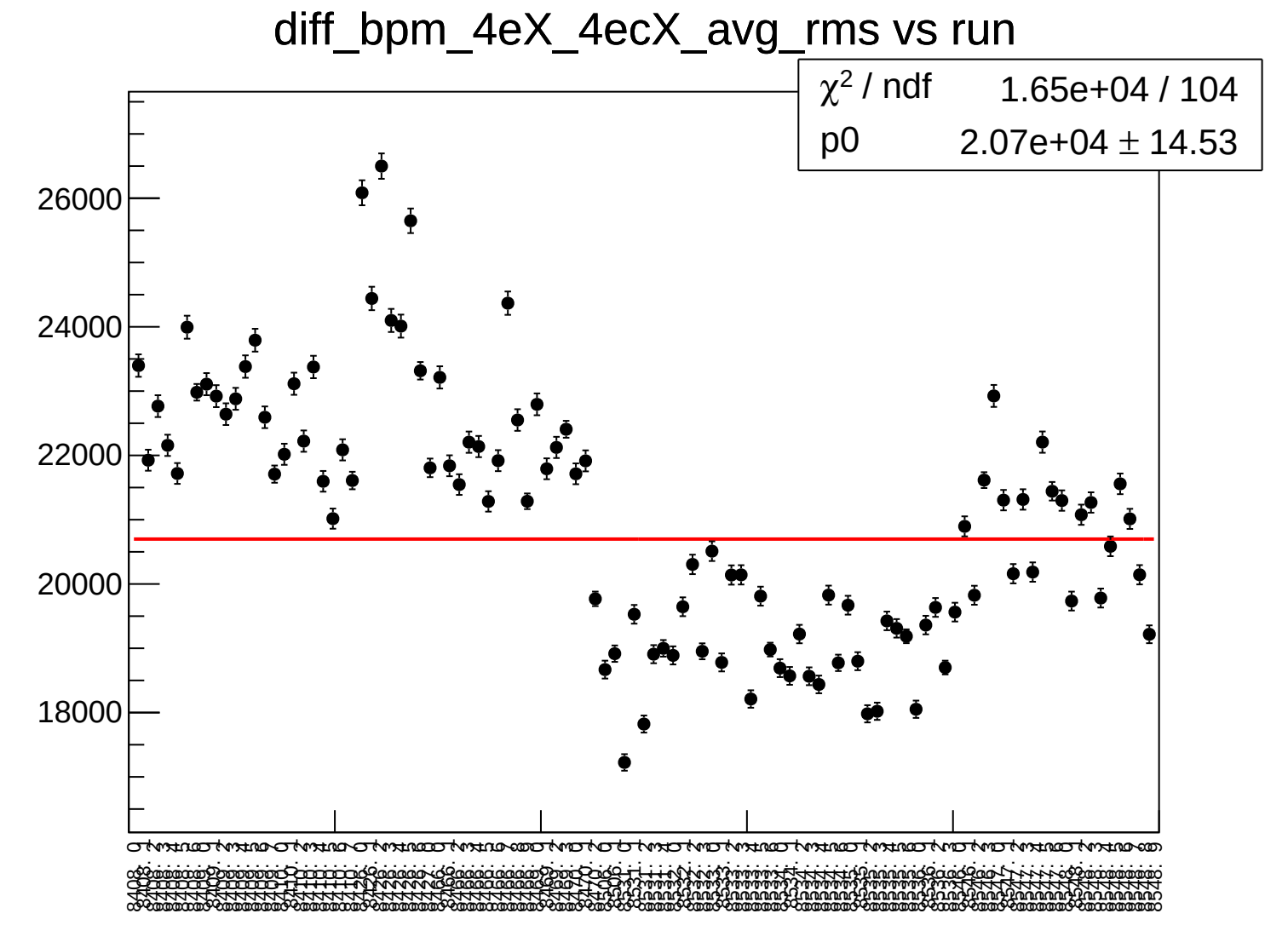

diff_bpm_4aX_4ecX_dd_mean vs run
χ² / ndf 114.9 / 104
p0 −2.532 ± 0.6211
pull
Entries 105
Mean 97.98
Std Dev 57.47

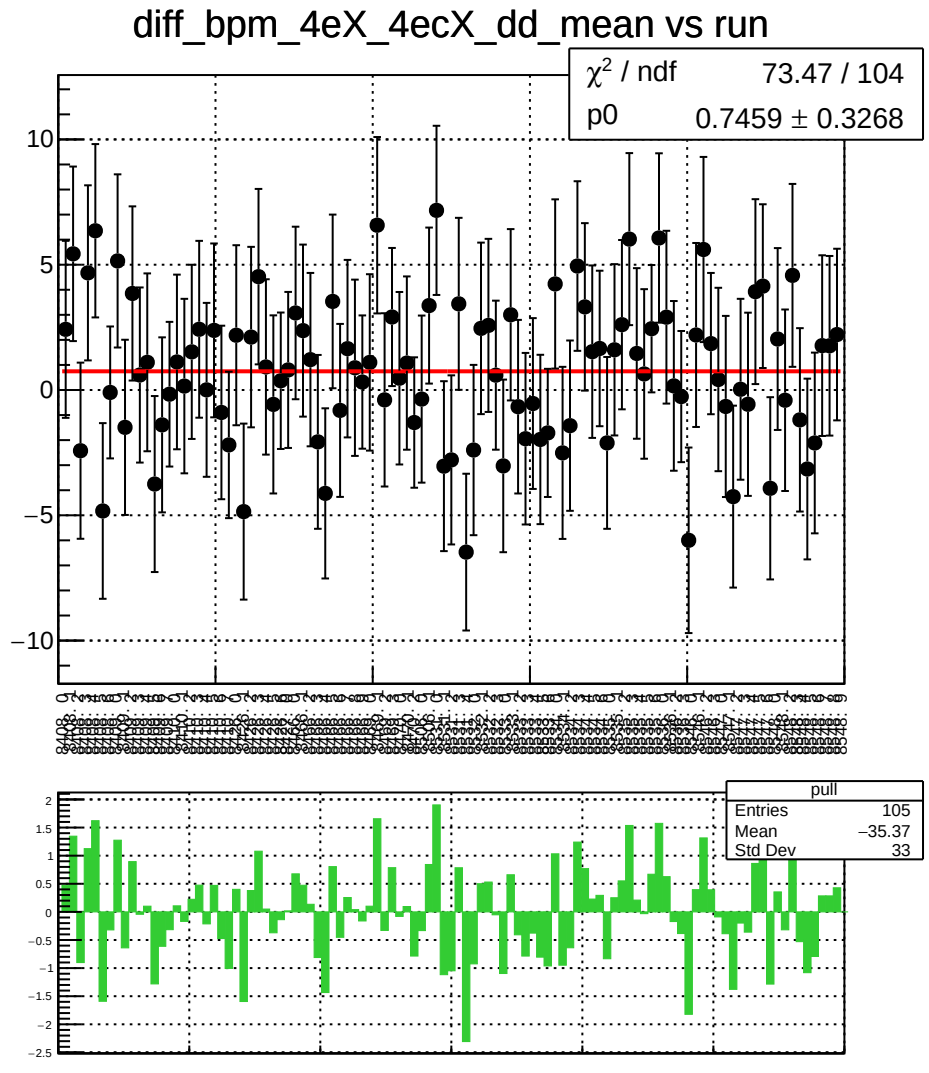

pull1D
Entries 105
Mean −0.01073
Std Dev 1.046

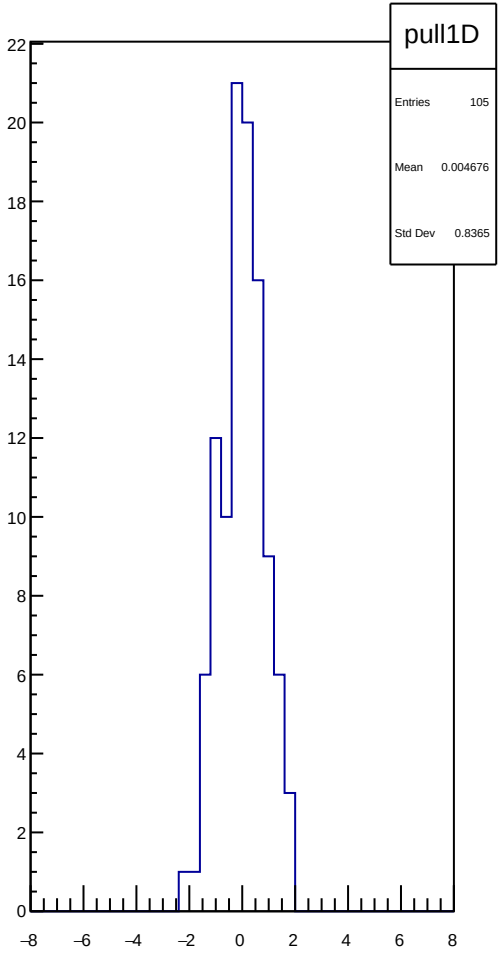

diff_bpm_4aX_4ecX_dd_rms vs run
χ² / ndf 8.855e+04 / 104
p0 614.5 ± 0.4392
1000
900
800
700
600
500

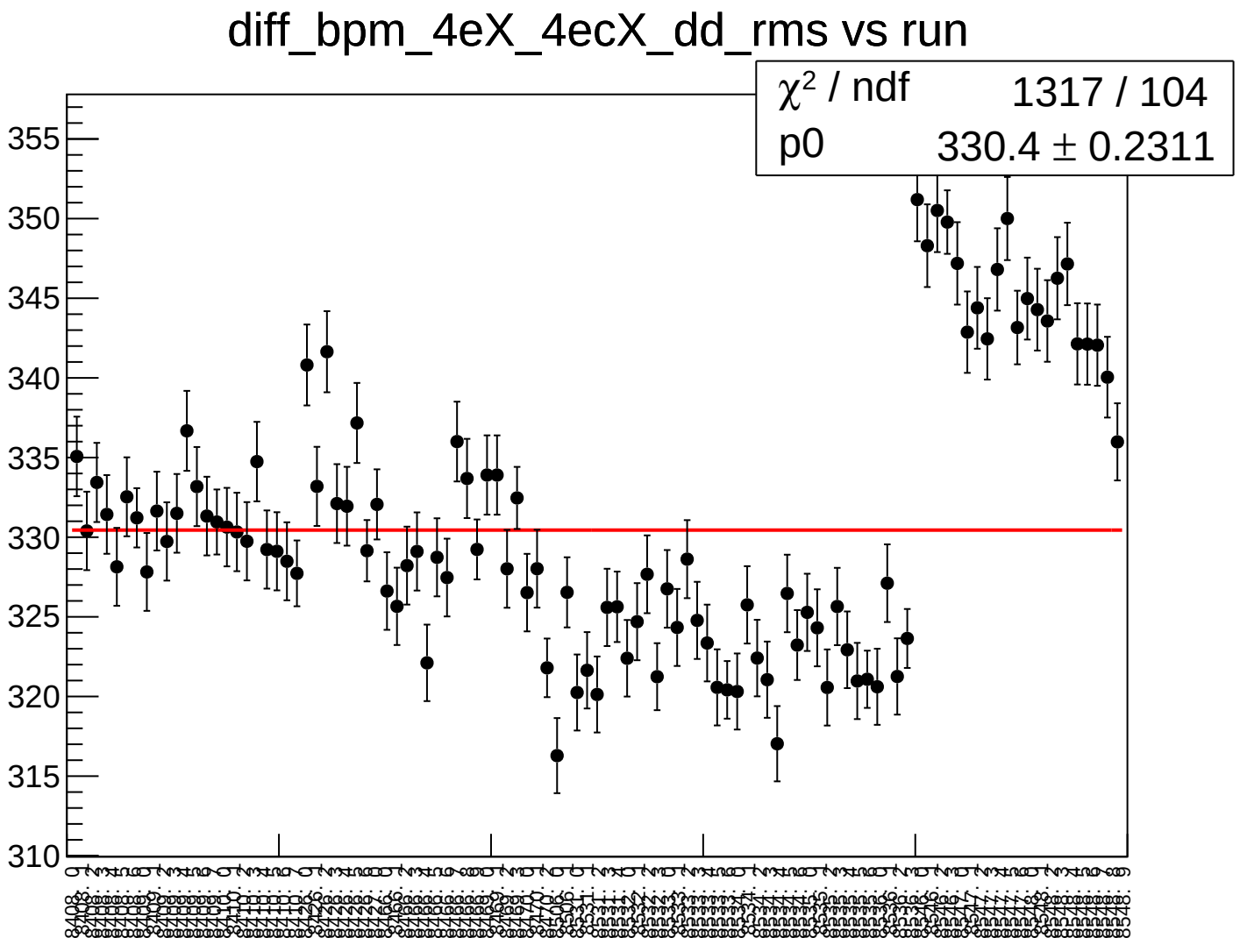

diff_bpm_4eX_4ecX_avg_mean vs run
χ² / ndf 110 / 104
p0 −67.85 ± 20.55
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 105
Mean −2822
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

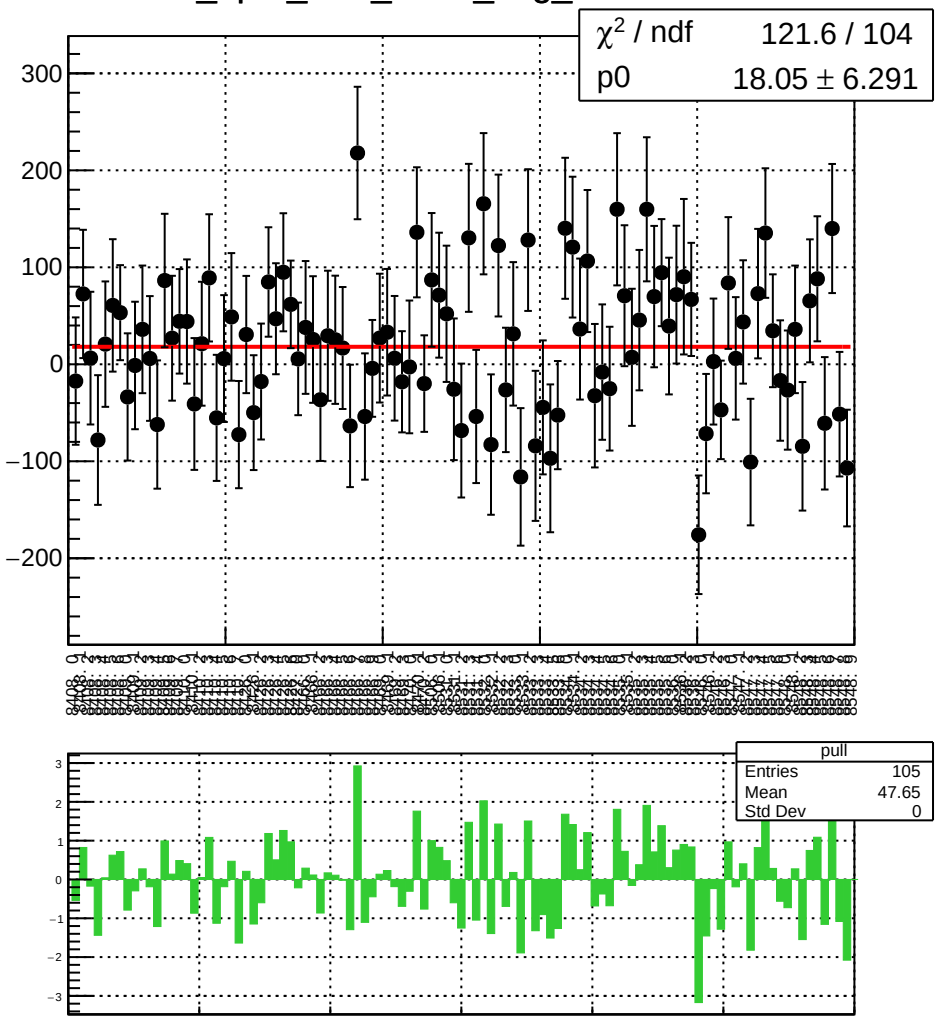

pull1D
Entries 105
Mean 0.000675
Std Dev 1.024
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

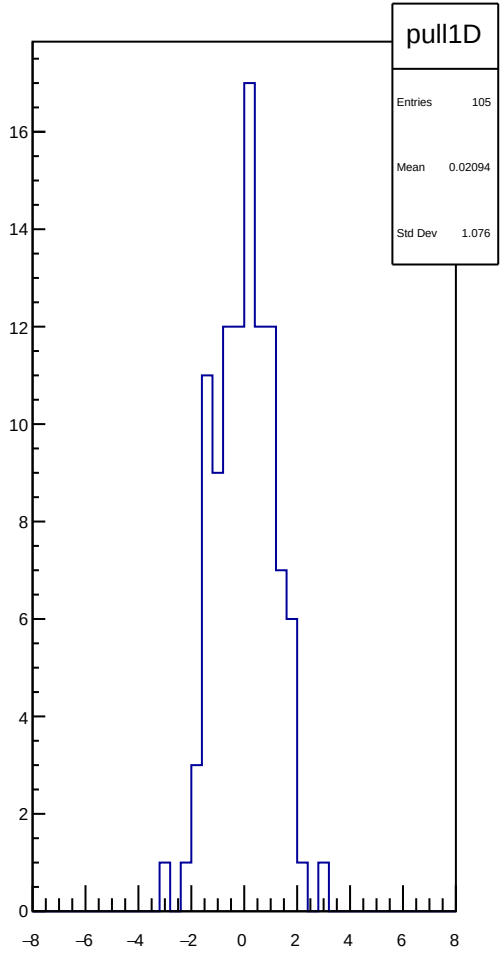

diff_bpm_4eX_4ecX_avg_rms vs run
χ² / ndf 1.65e+04 / 104
p0 2.07e+04 ± 14.53
26000
24000
22000
20000
18000

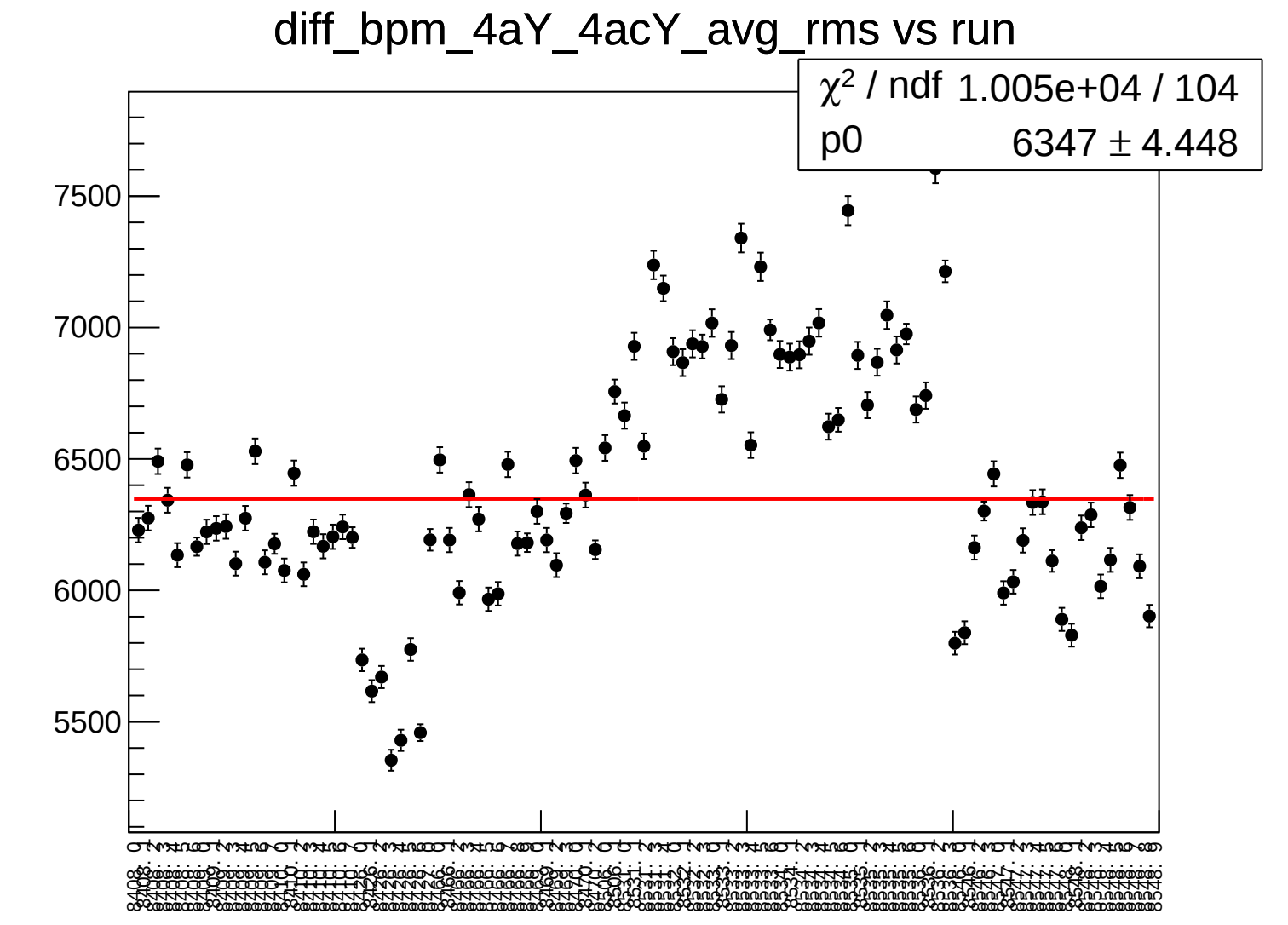

diff_bpm_4eX_4ecX_dd_mean vs run
χ² / ndf 73.47 / 104
p0 0.7459 ± 0.3268
pull
Entries 105
Mean −35.37
Std Dev 33

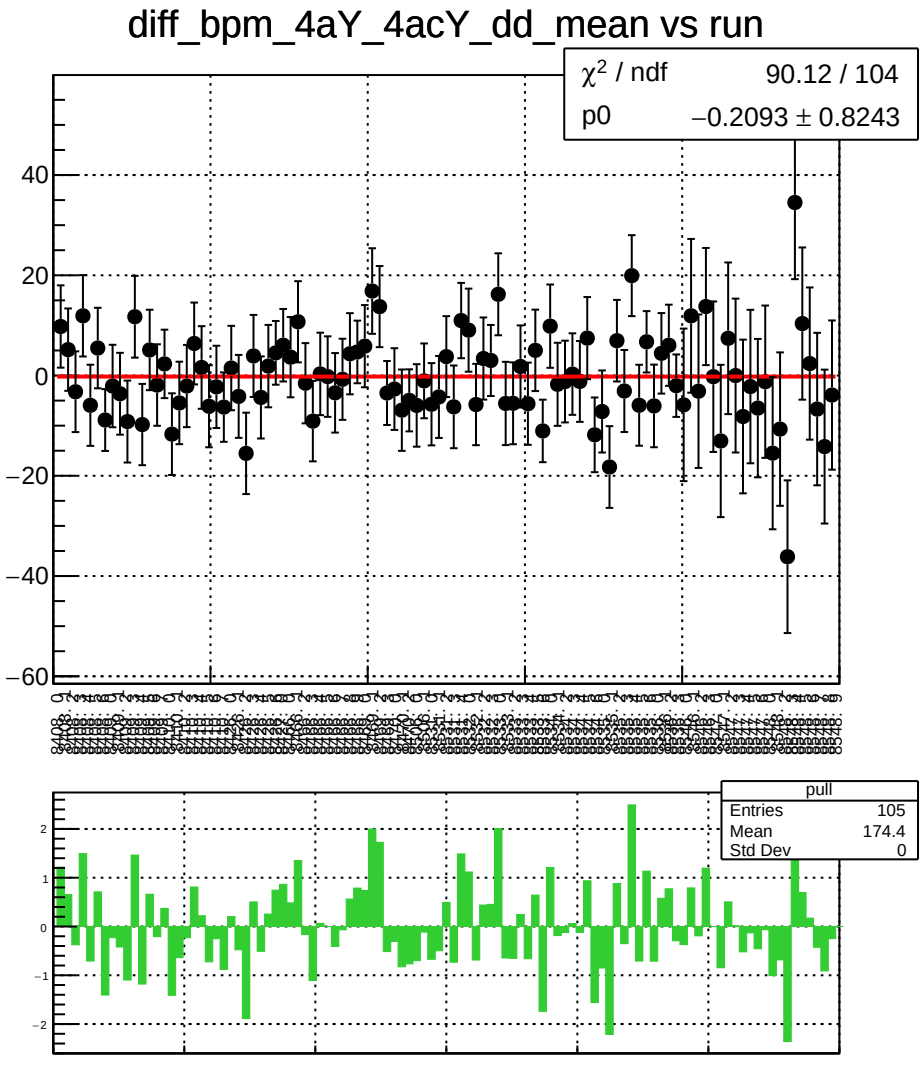

pull1D
Entries 105
Mean 0.004676
Std Dev 0.8365

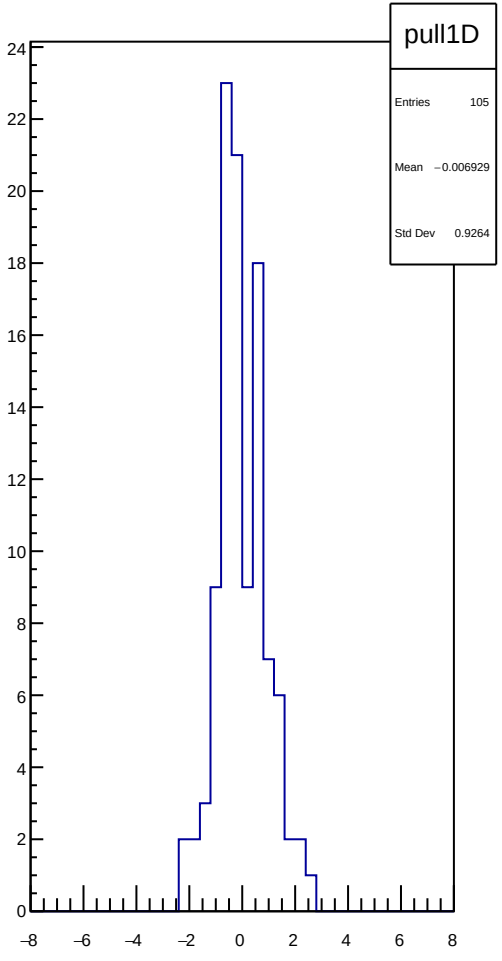

diff_bpm_4eX_4ecX_dd_rms vs run
χ² / ndf 1317 / 104
p0 330.4 ± 0.2311
355
350
345
340
335
330
325
320
315
310

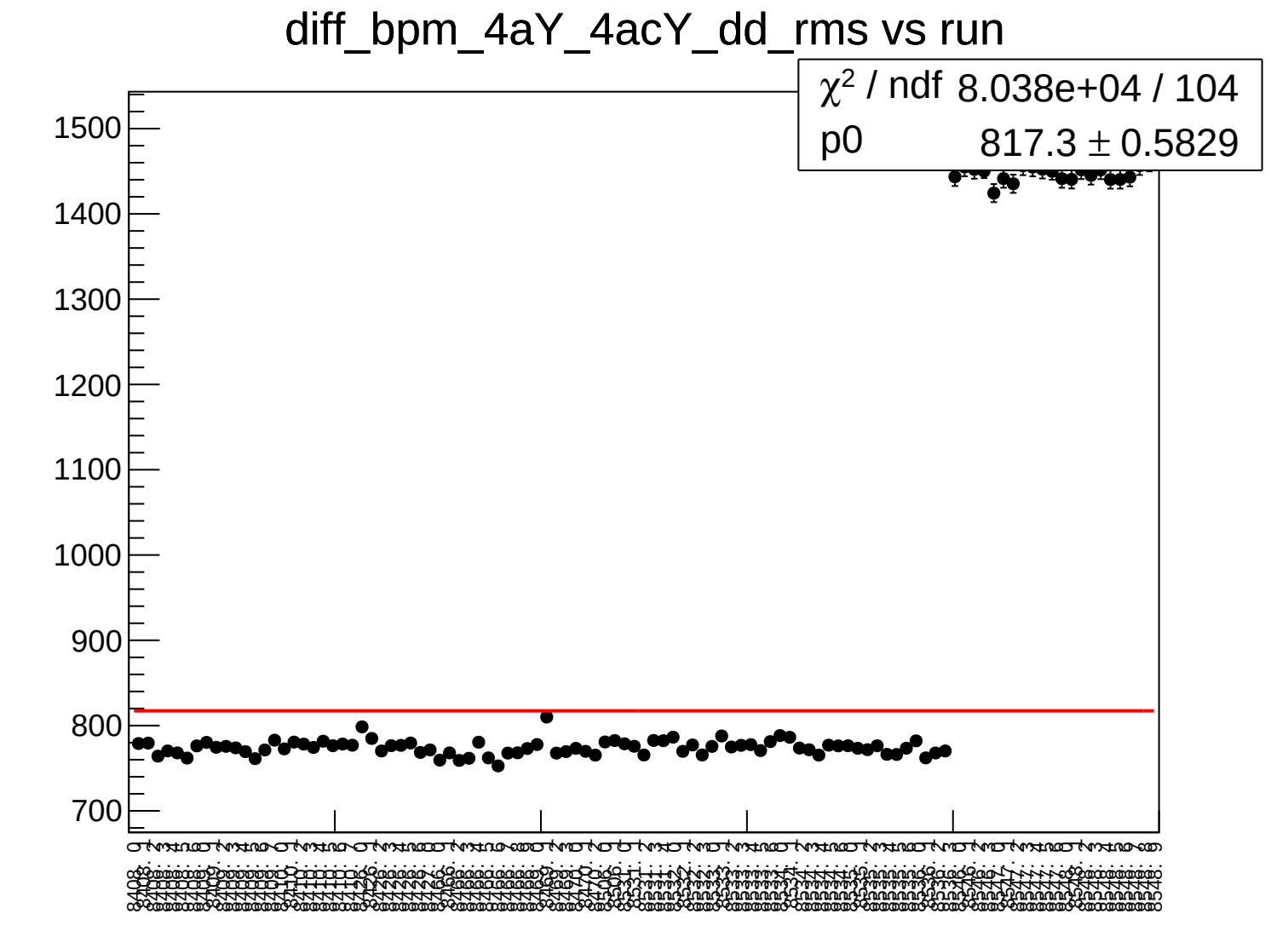

diff_bpm_4aY_4acY_avg_mean vs run
χ² / ndf 121.6 / 104
p0 18.05 ± 6.291
300
200
100
0
−100
−200
pull
Entries 105
Mean 47.65
Std Dev 0
3
2
1
0
−1
−2
−3

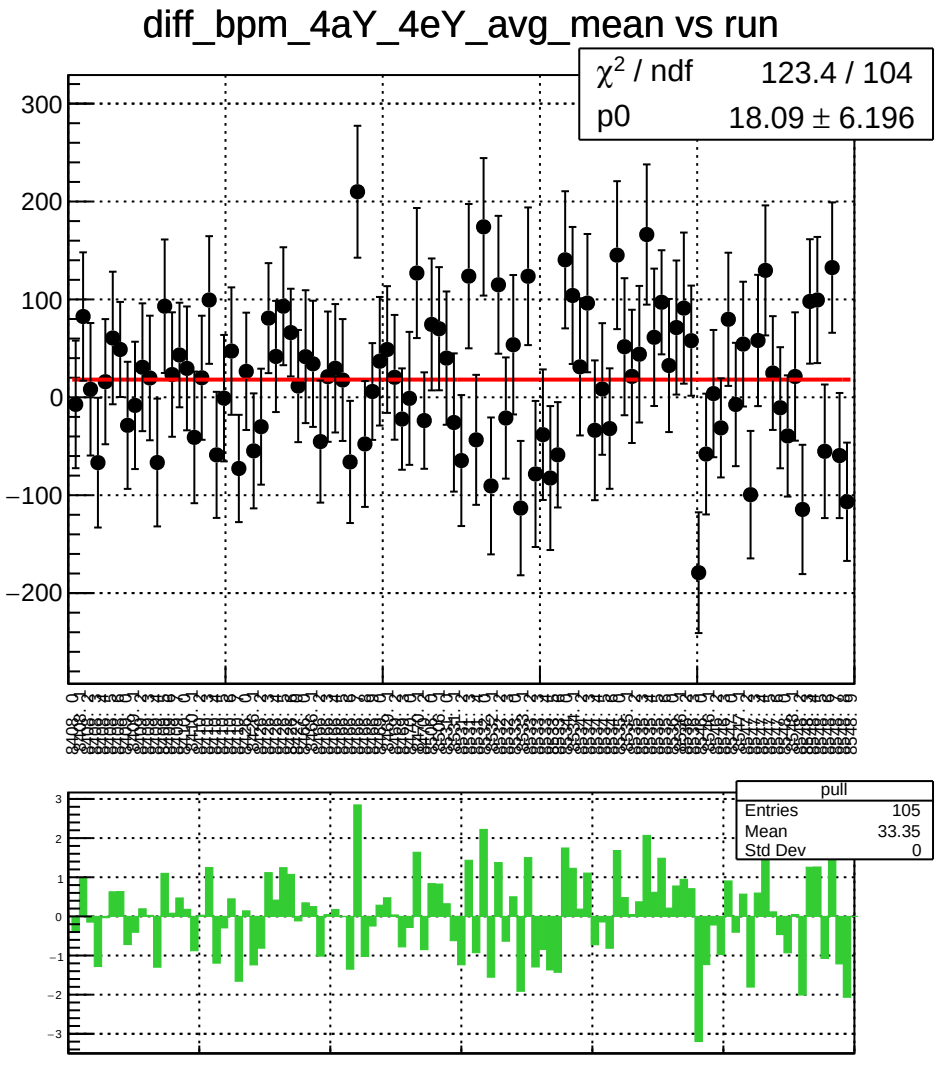

pull1D
Entries 105
Mean 0.02094
Std Dev 1.076
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

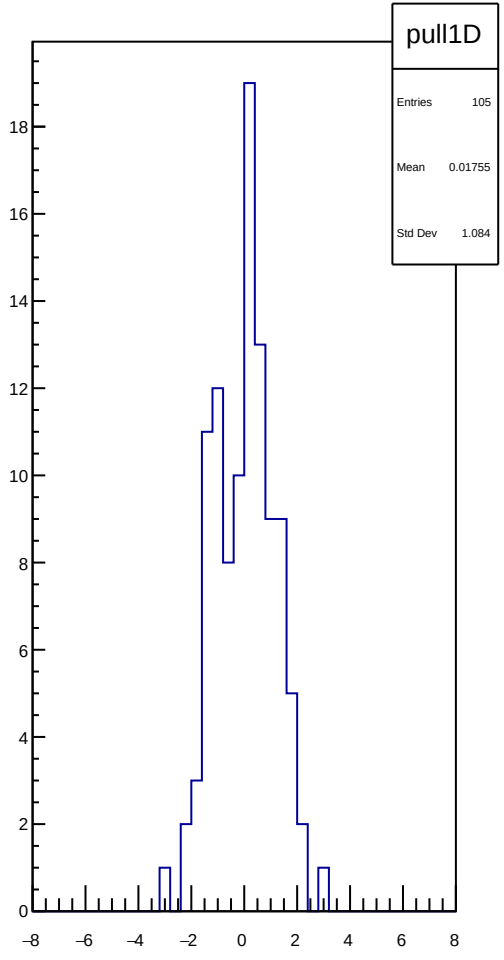

diff_bpm_4aY_4acY_avg_rms vs run
χ² / ndf 1.005e+04 / 104
p0 6347 ± 4.448
7500
7000
6500
6000
5500

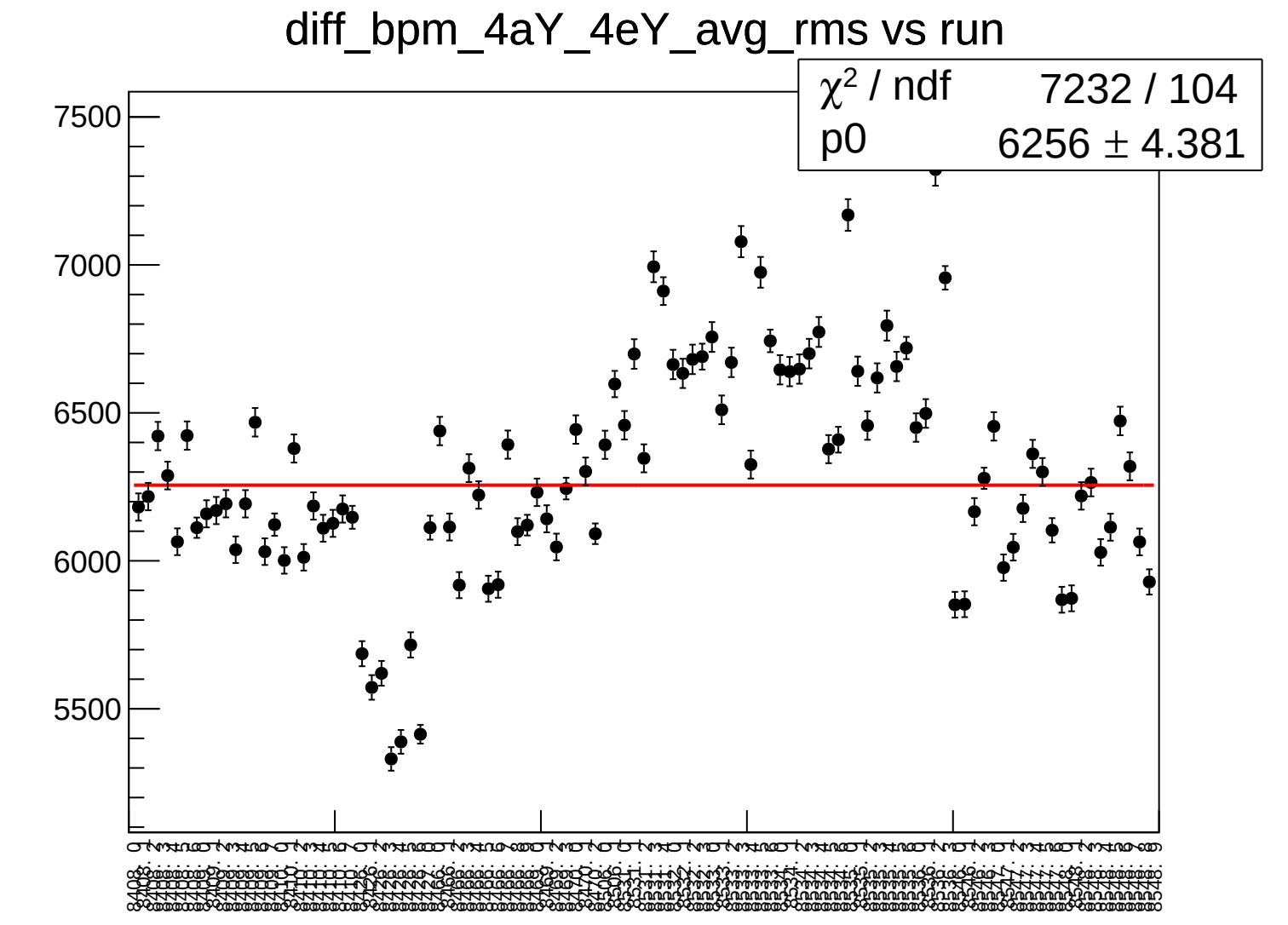

diff_bpm_4aY_4acY_dd_mean vs run
χ² / ndf 90.12 / 104
p0 −0.2093 ± 0.8243
pull
Entries 105
Mean 174.4
Std Dev 0

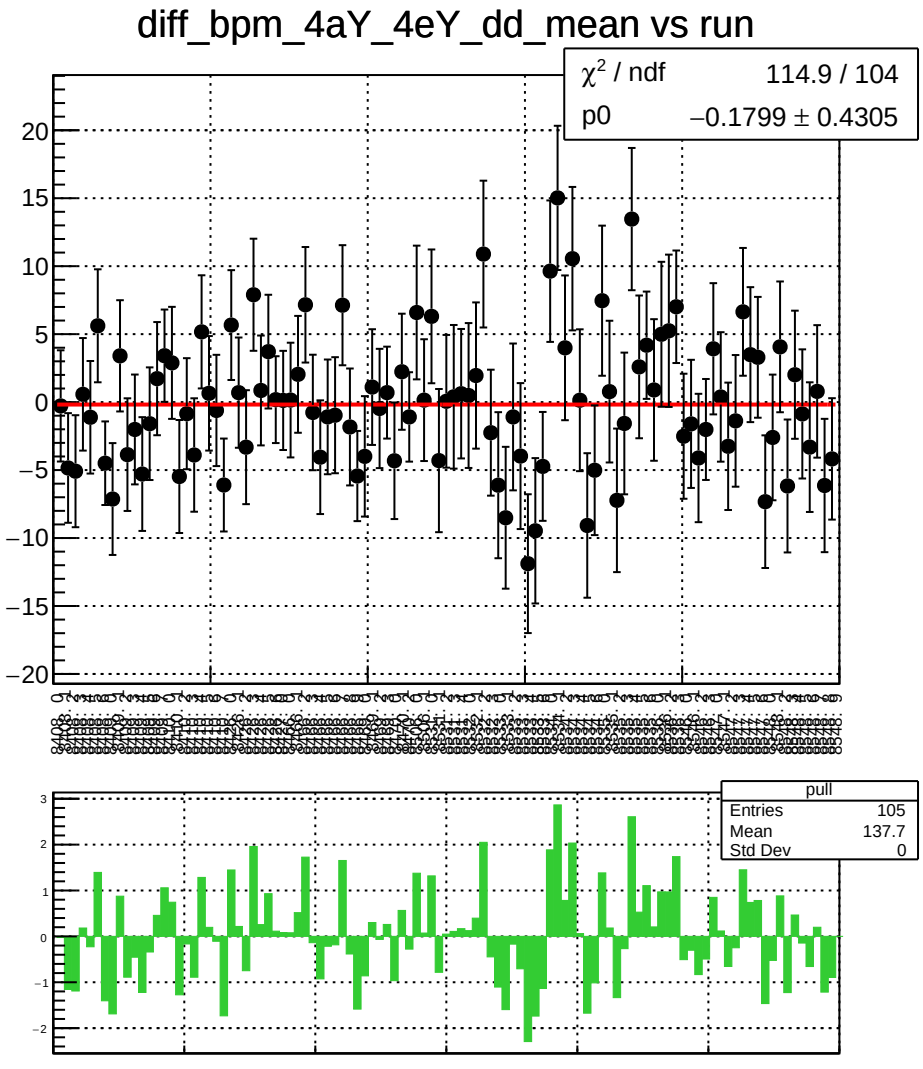

pull1D
Entries 105
Mean −0.006929
Std Dev 0.9264

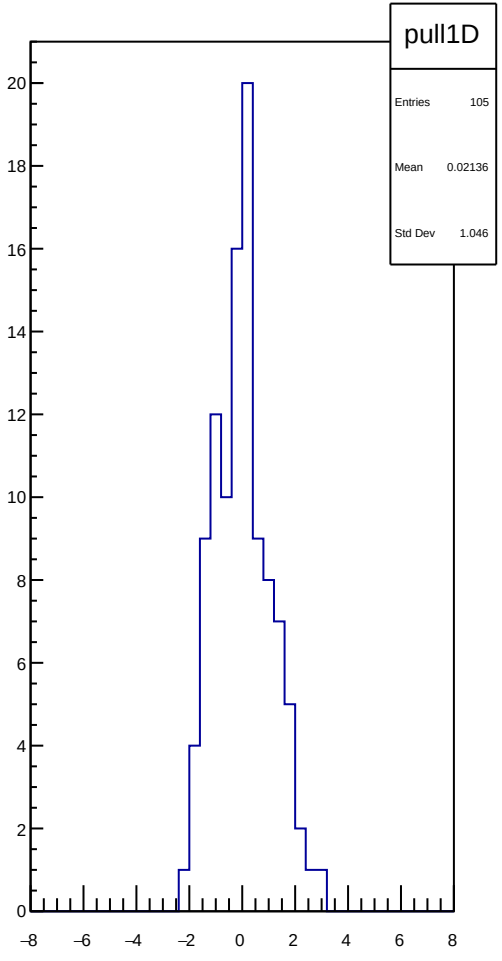

diff_bpm_4aY_4acY_dd_rms vs run
χ² / ndf 8.038e+04 / 104
p0 817.3 ± 0.5829
1500
1400
1300
1200
1100
1000
900
800
700

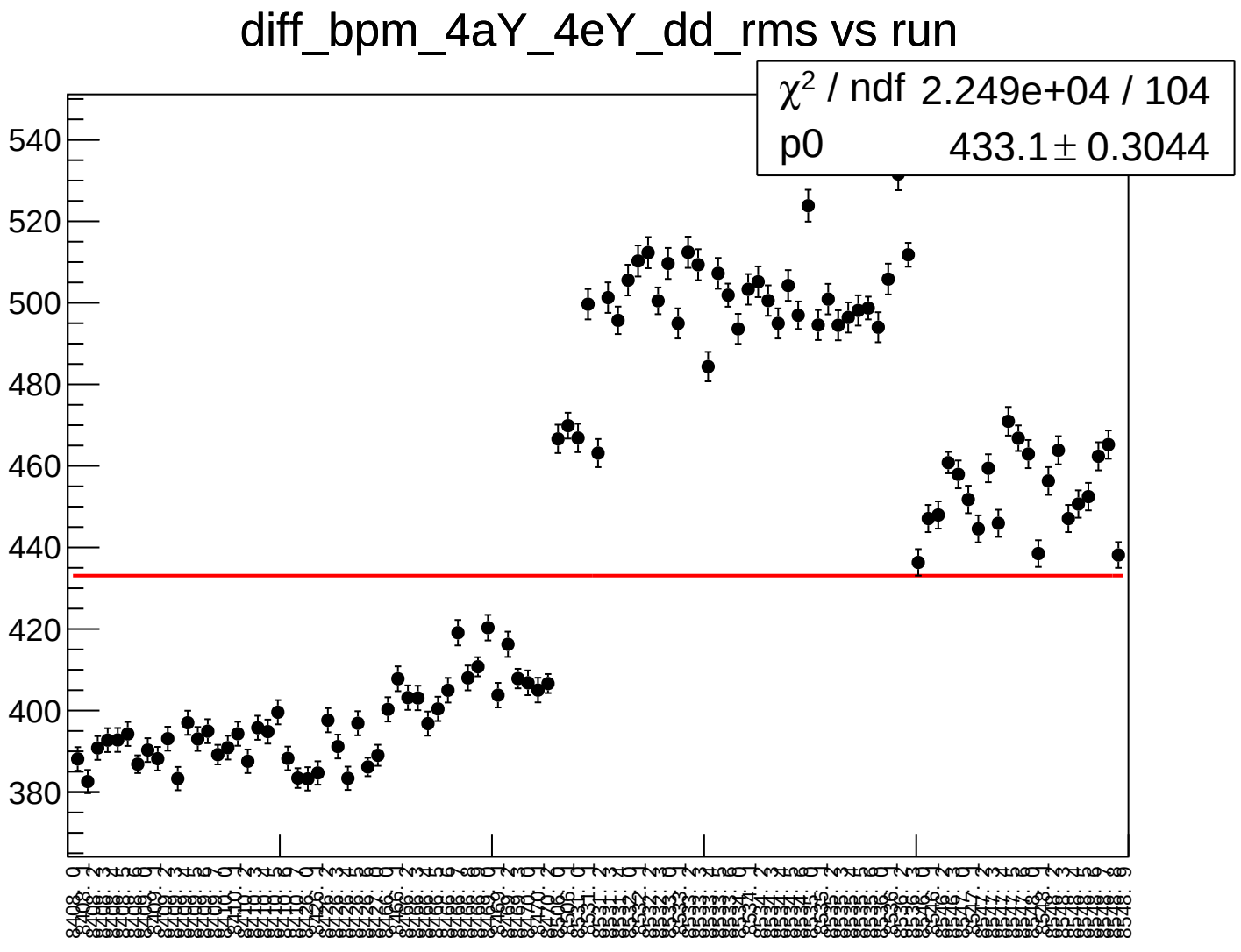

diff_bpm_4aY_4eY_avg_mean vs run
χ² / ndf 123.4 / 104
p0 18.09 ± 6.196
300
200
100
0
−100
−200
pull
Entries 105
Mean 33.35
Std Dev 0
3
2
1
0
−1
−2
−3

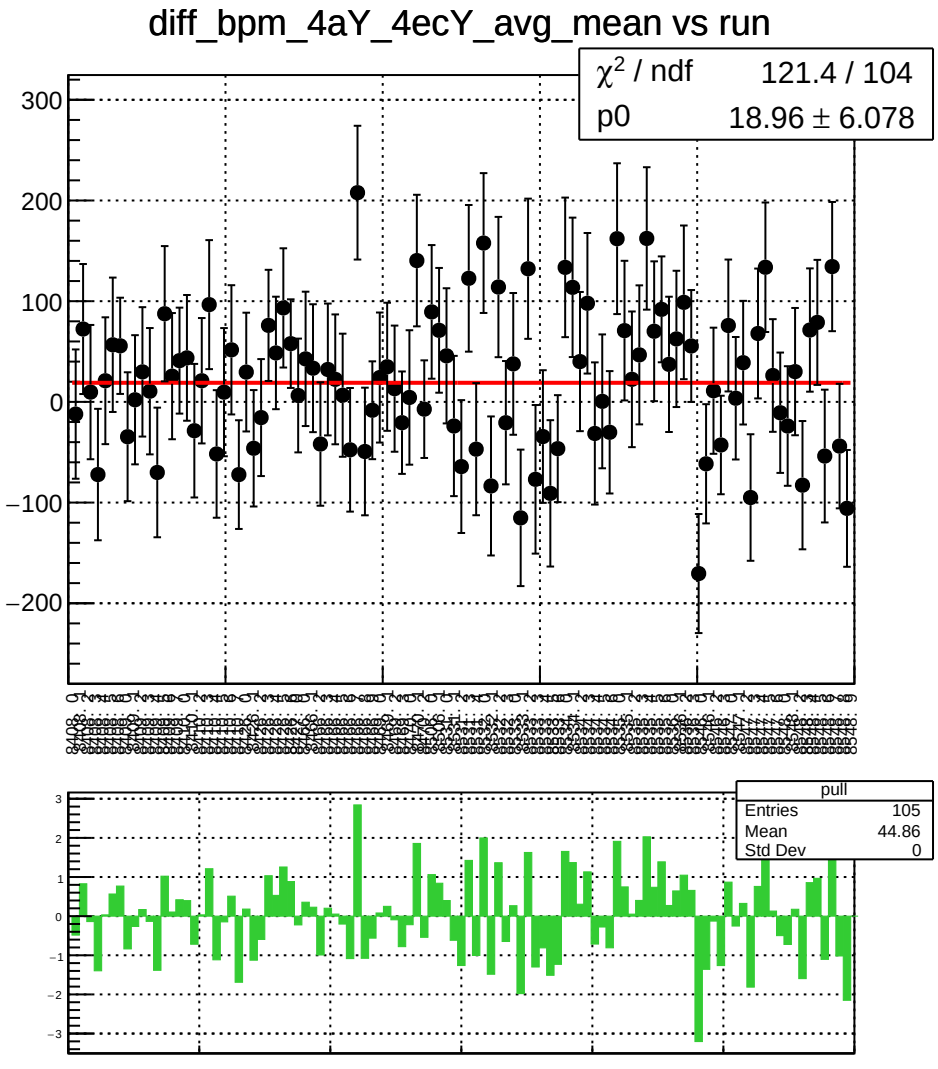

pull1D
Entries 105
Mean 0.01755
Std Dev 1.084
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

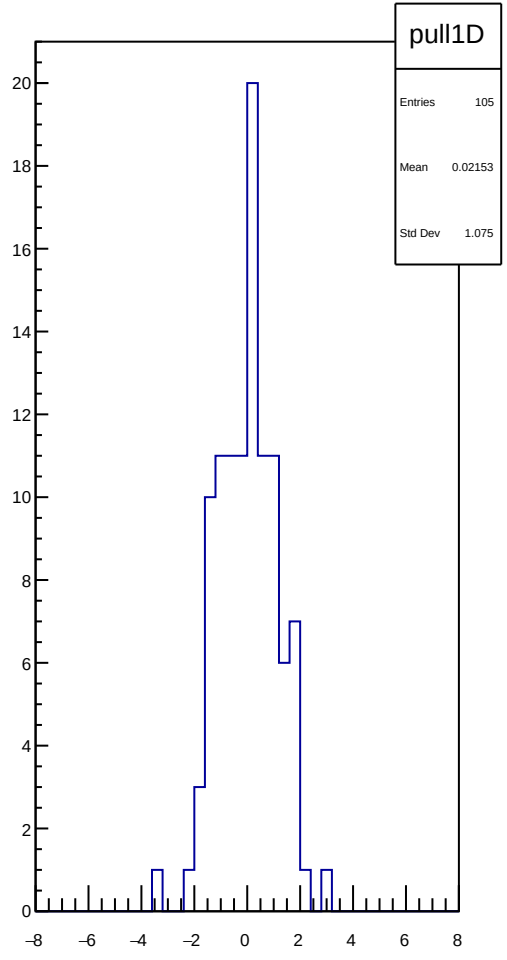

diff_bpm_4aY_4eY_avg_rms vs run
χ^2 / ndf 7232 / 104
p0 6256 ± 4.381
7500
7000
6500
6000
5500

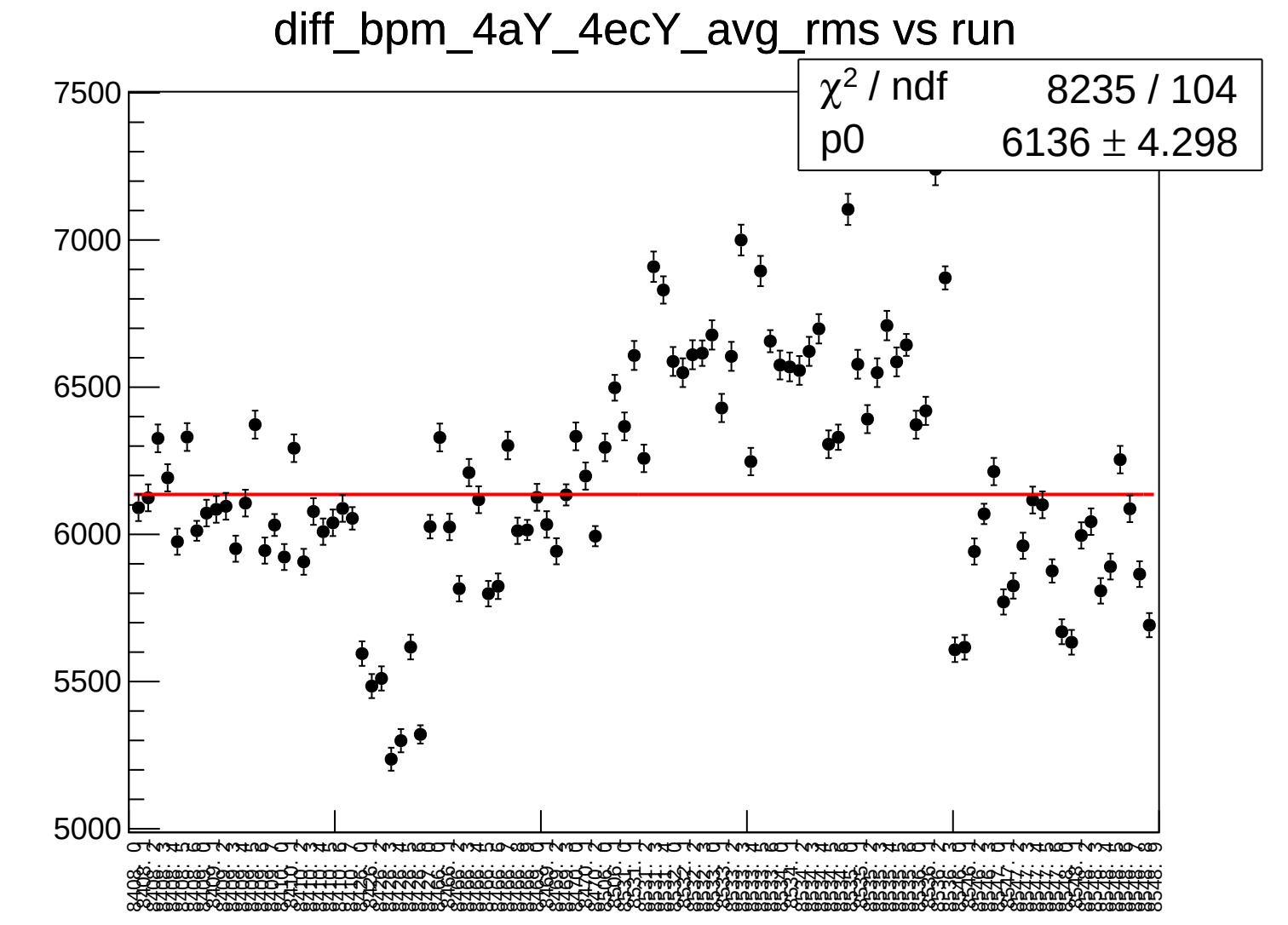

diff_bpm_4aY_4eY_dd_mean vs run
χ² / ndf 114.9 / 104
p0 −0.1799 ± 0.4305
pull
Entries 105
Mean 137.7
Std Dev 0

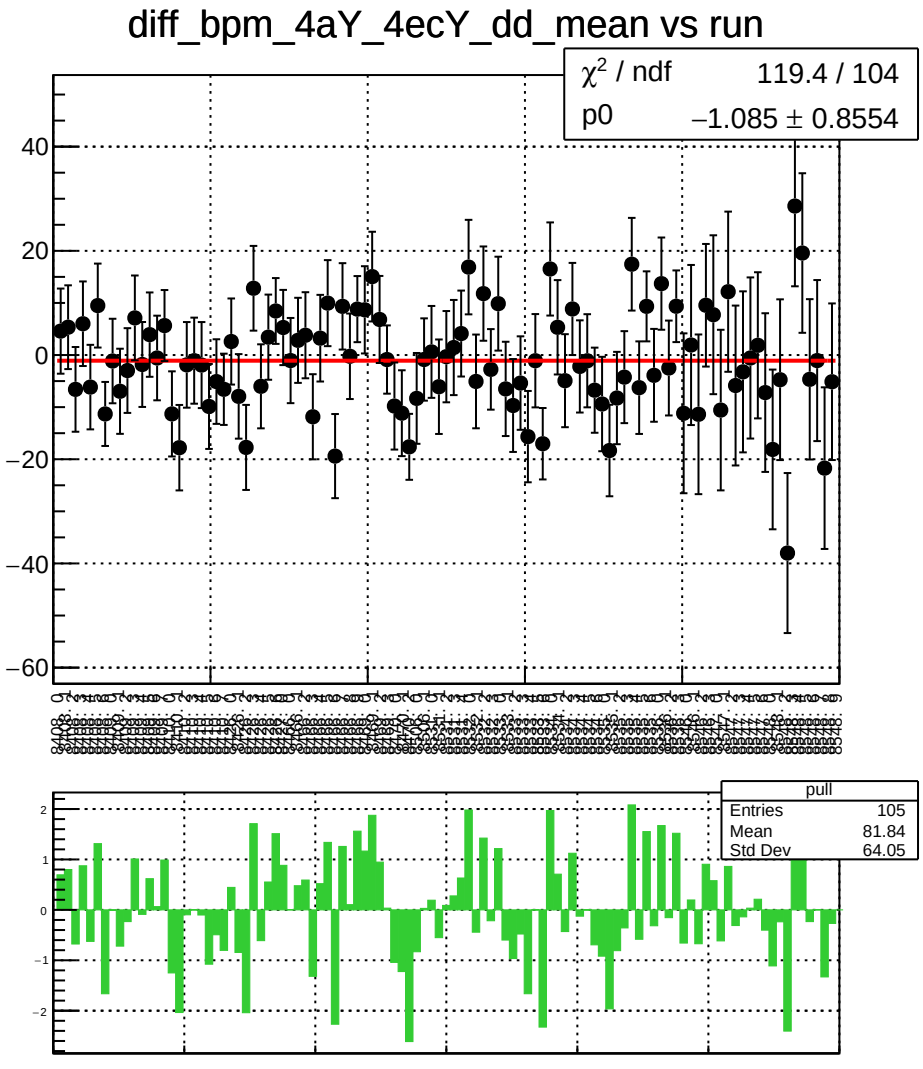

pull1D
Entries 105
Mean 0.02136
Std Dev 1.046

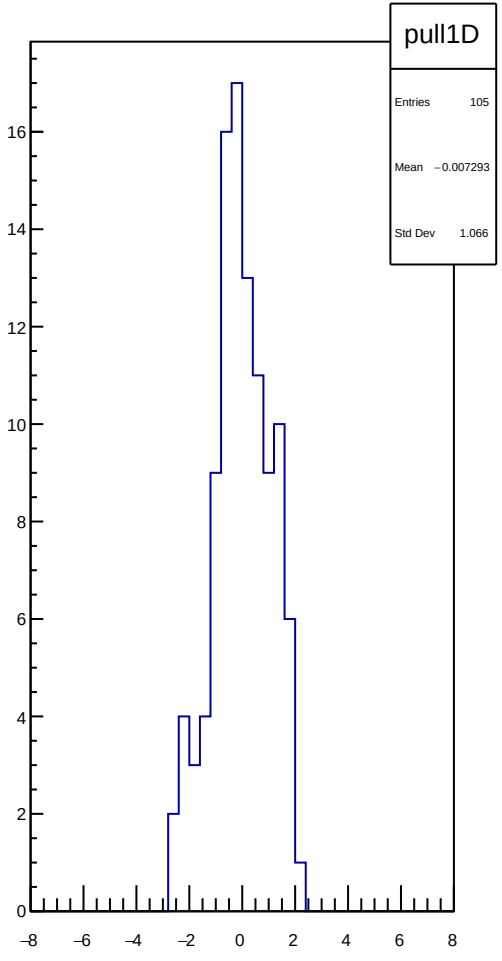

diff_bpm_4aY_4eY_dd_rms vs run
χ² / ndf 2.249e+04 / 104
p0 433.1 ± 0.3044
540
520
500
480
460
440
420
400
380

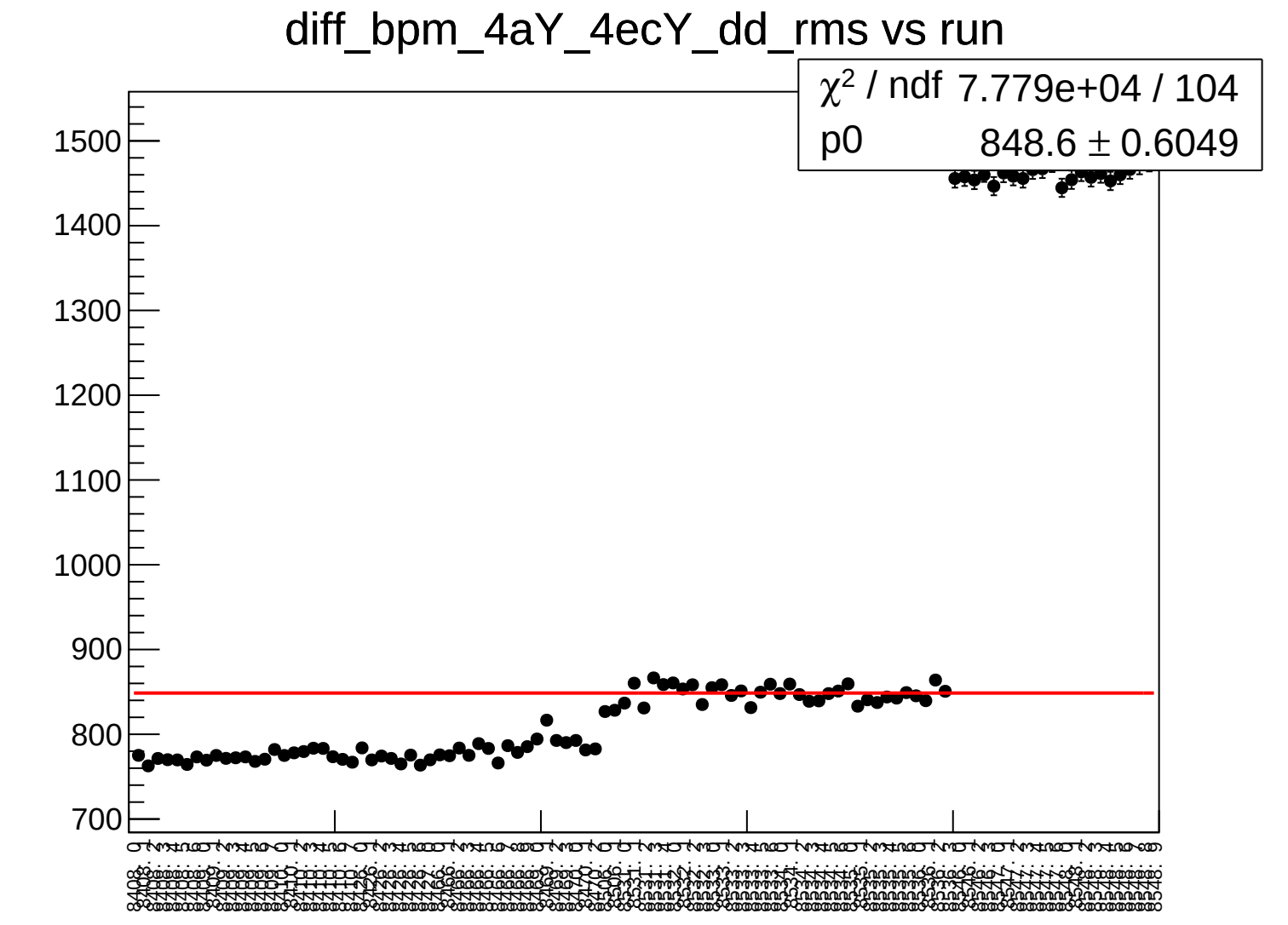

diff_bpm_4aY_4ecY_avg_mean vs run
χ² / ndf 121.4 / 104
p0 18.96 ± 6.078
300
200
100
0
−100
−200
pull
Entries 105
Mean 44.86
Std Dev 0
3
2
1
0
−1
−2
−3

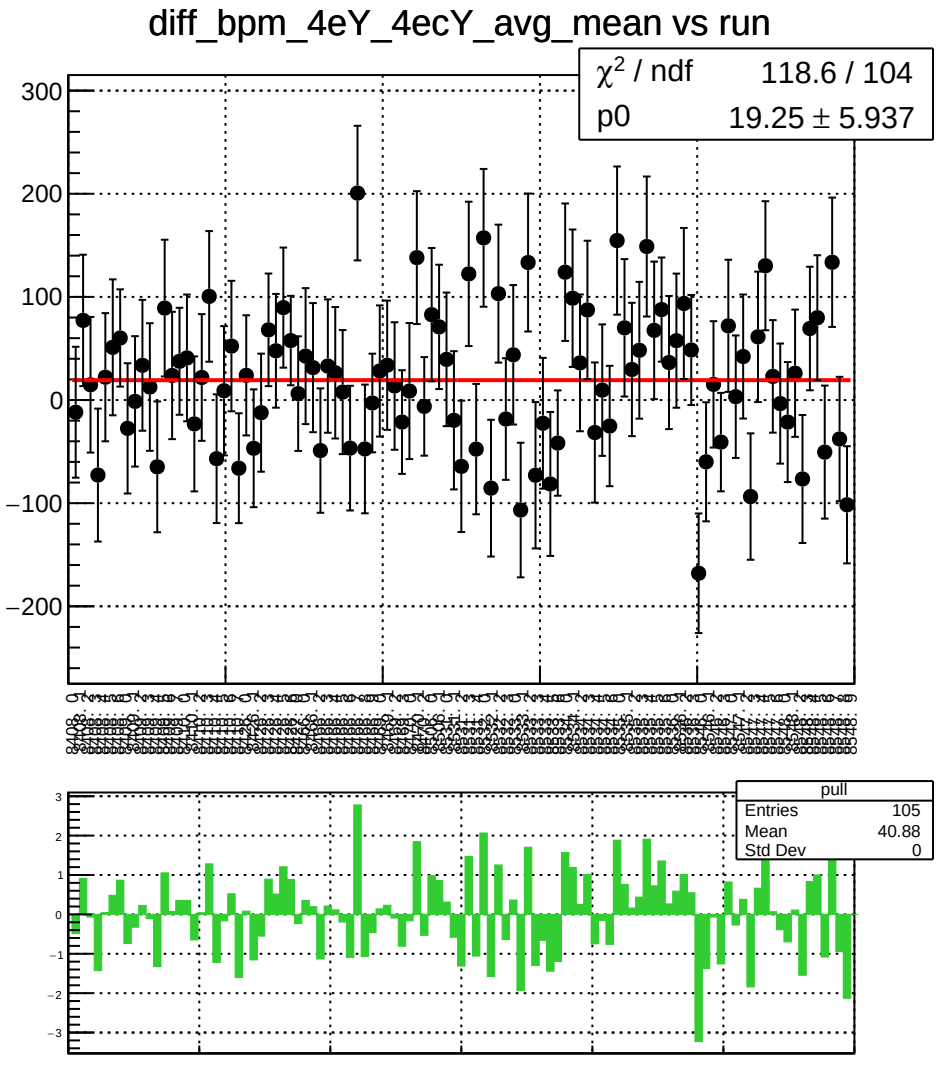

pull1D
Entries 105
Mean 0.02153
Std Dev 1.075
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

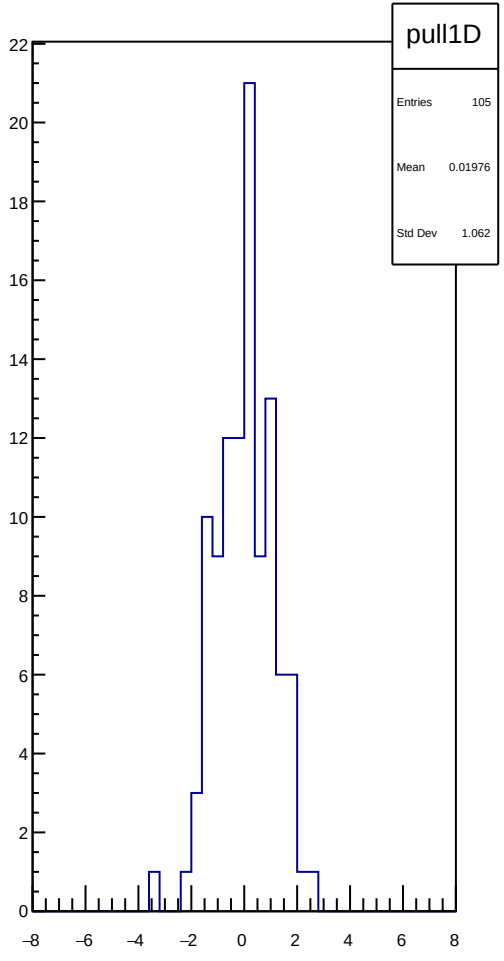

diff_bpm_4aY_4ecY_avg_rms vs run
χ^2 / ndf 8235 / 104
p0 6136 ± 4.298
7500
7000
6500
6000
5500
5000

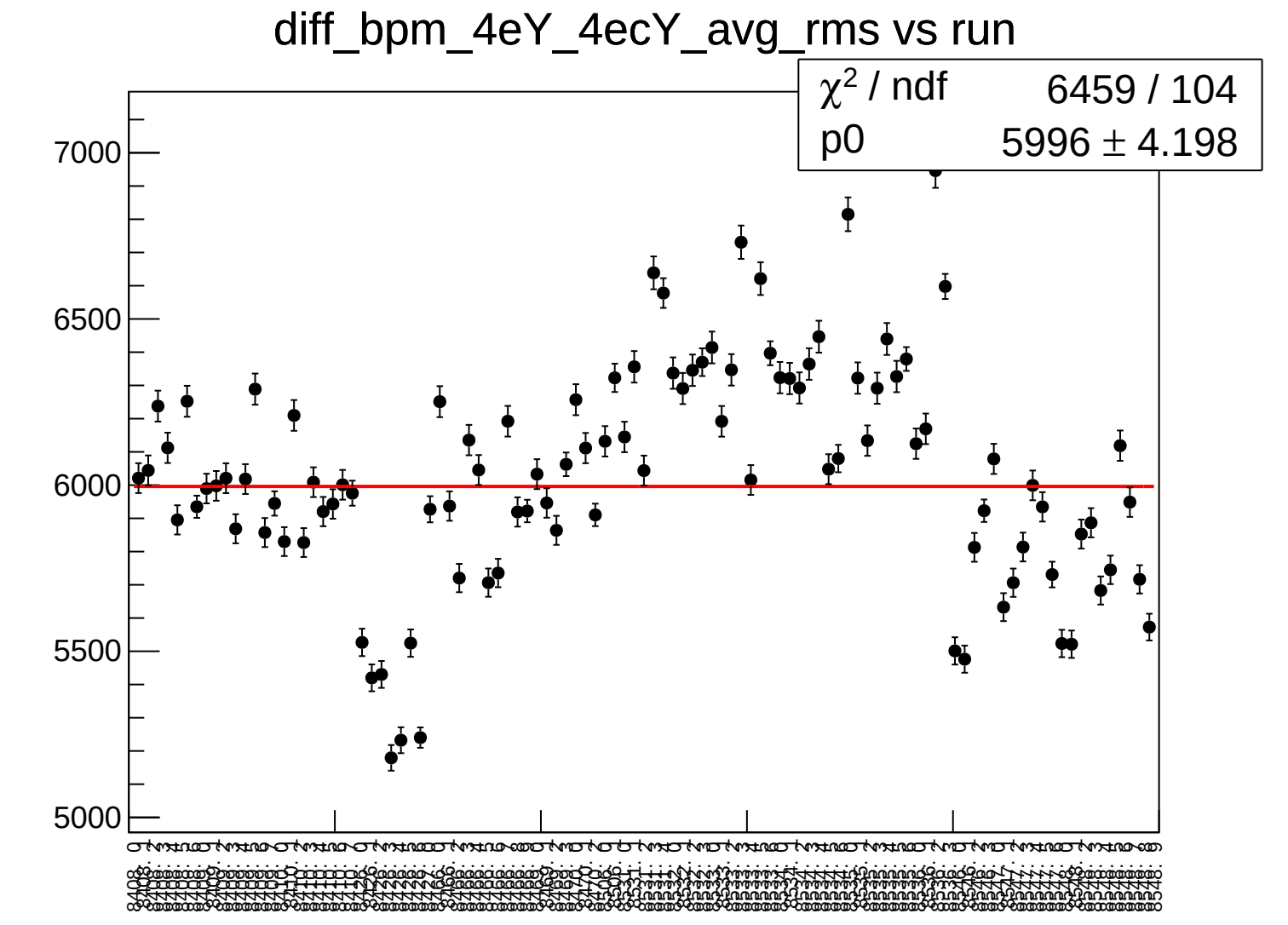

diff_bpm_4aY_4ecY_dd_mean vs run
χ² / ndf 119.4 / 104
p0 −1.085 ± 0.8554
pull
Entries 105
Mean 81.84
Std Dev 64.05

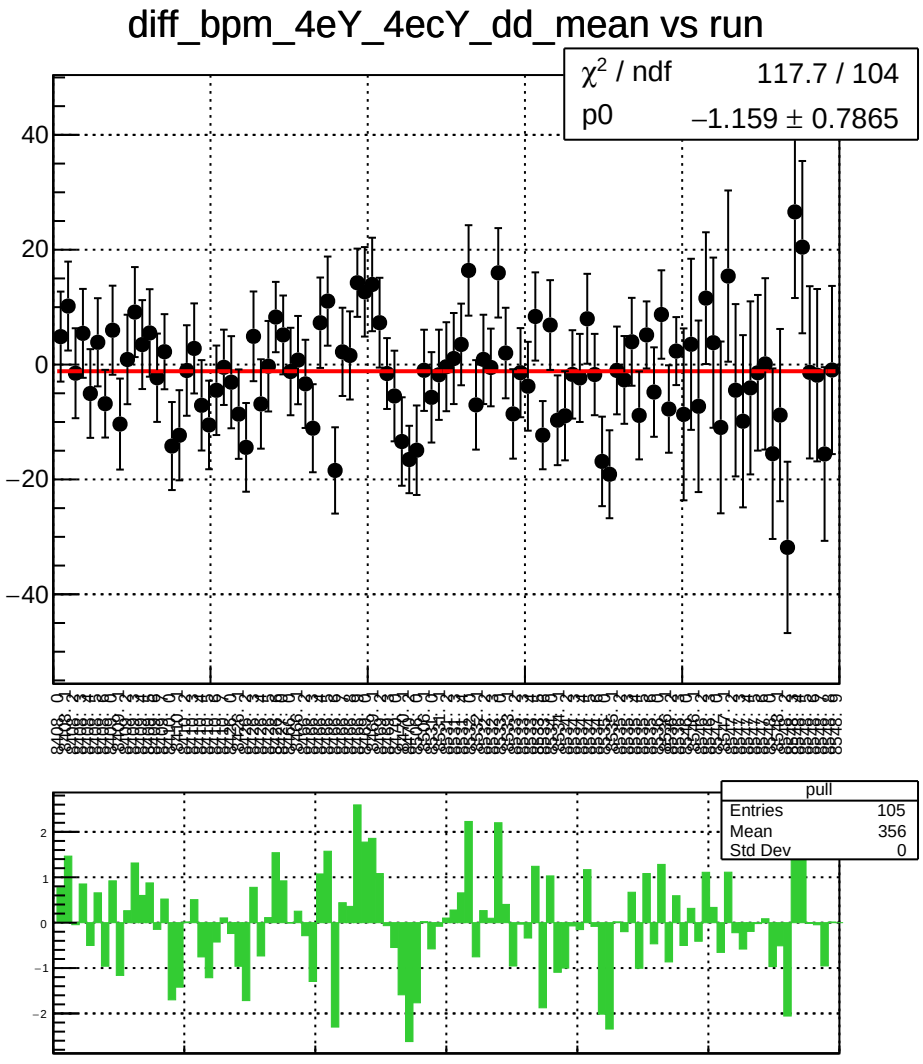

pull1D
Entries 105
Mean −0.007293
Std Dev 1.066

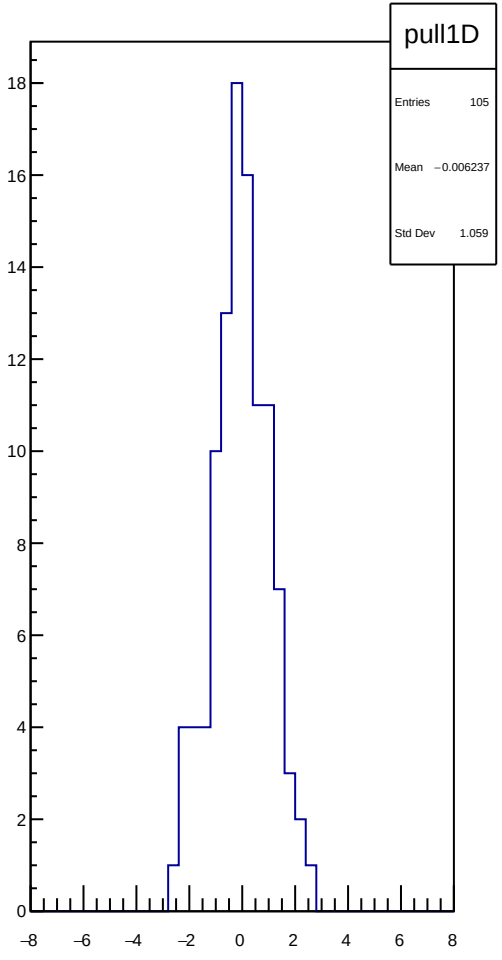

diff_bpm_4aY_4ecY_dd_rms vs run
χ² / ndf 7.779e+04 / 104
p0 848.6 ± 0.6049
1500
1400
1300
1200
1100
1000
900
800
700

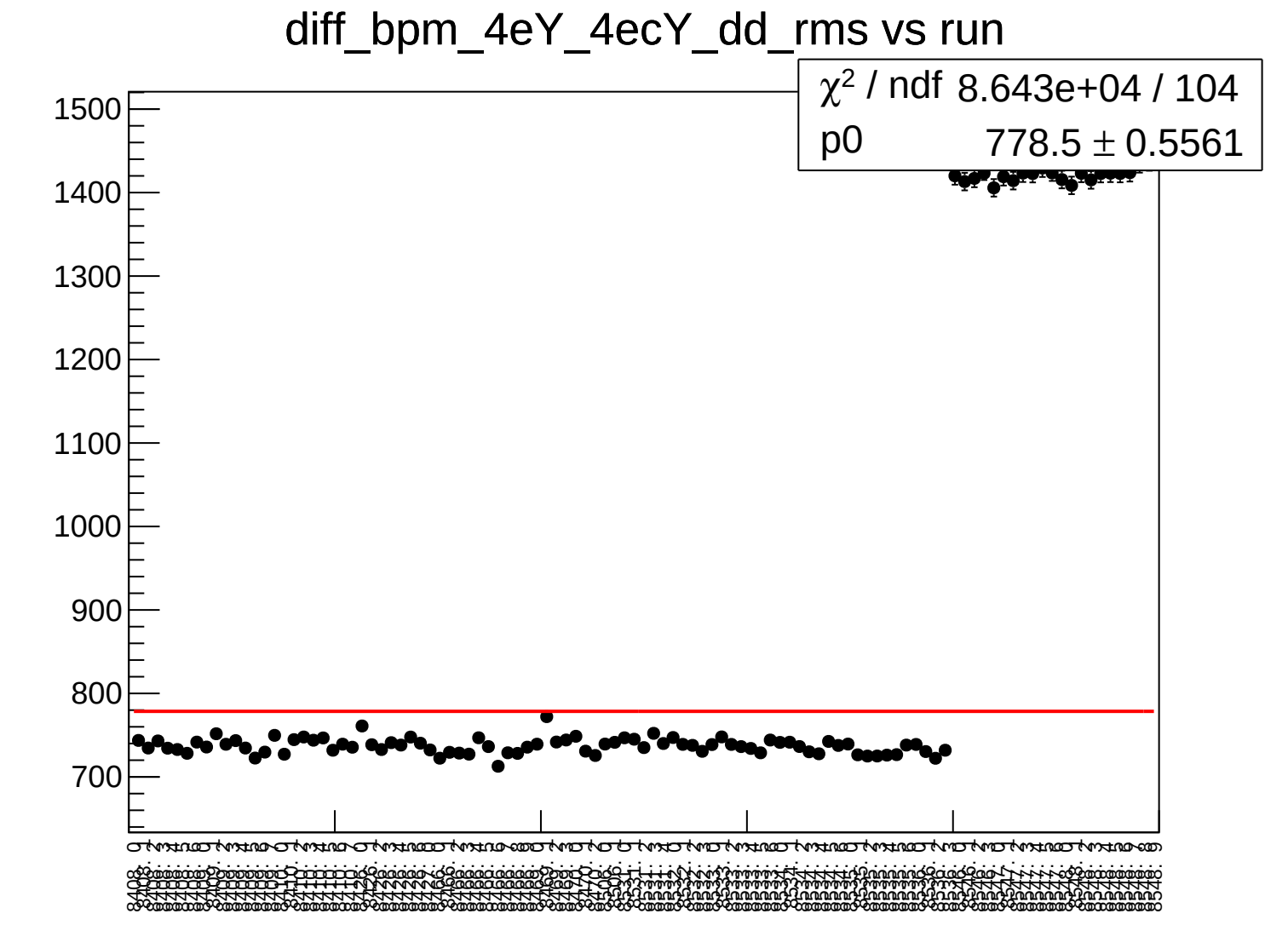

diff_bpm_4eY_4ecY_avg_mean vs run
χ² / ndf 118.6 / 104
p0 19.25 ± 5.937
300
200
100
0
−100
−200
pull
Entries 105
Mean 40.88
Std Dev 0
3
2
1
0
−1
−2
−3

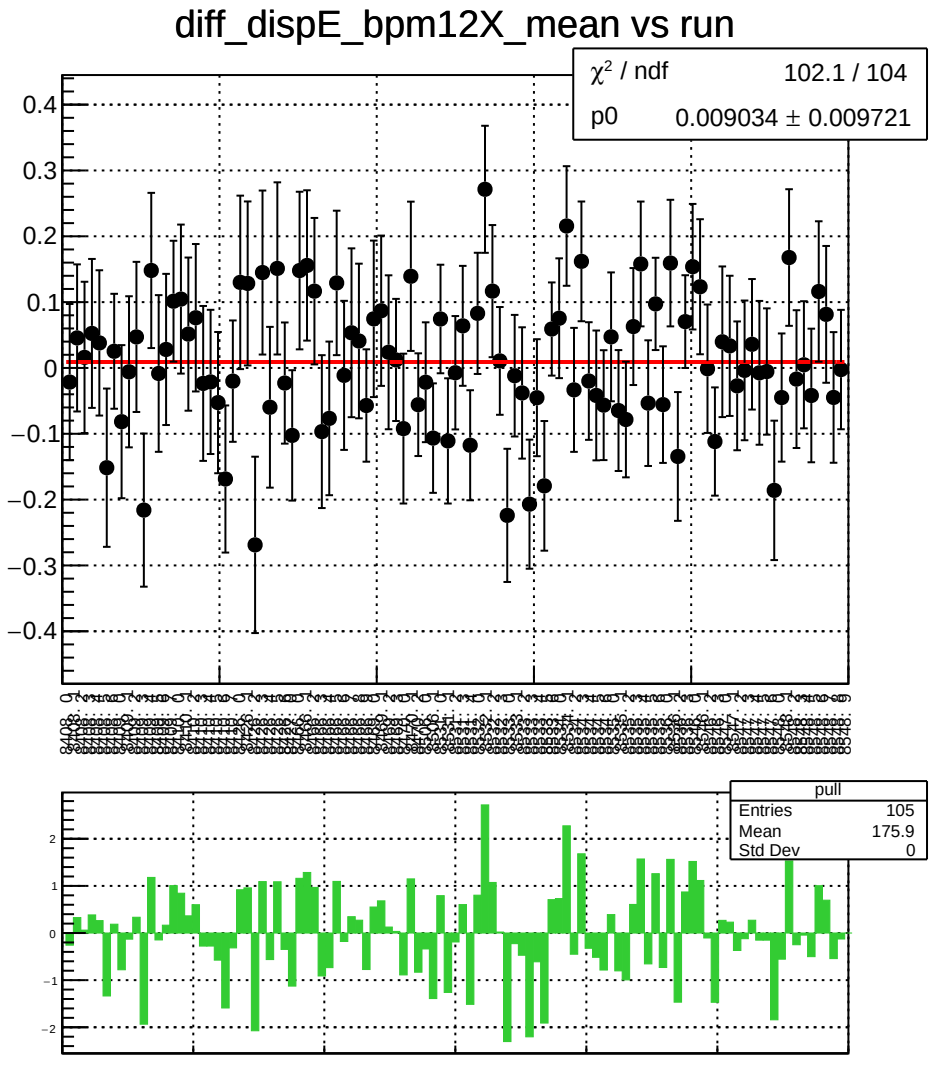

pull1D
Entries 105
Mean 0.01976
Std Dev 1.062
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

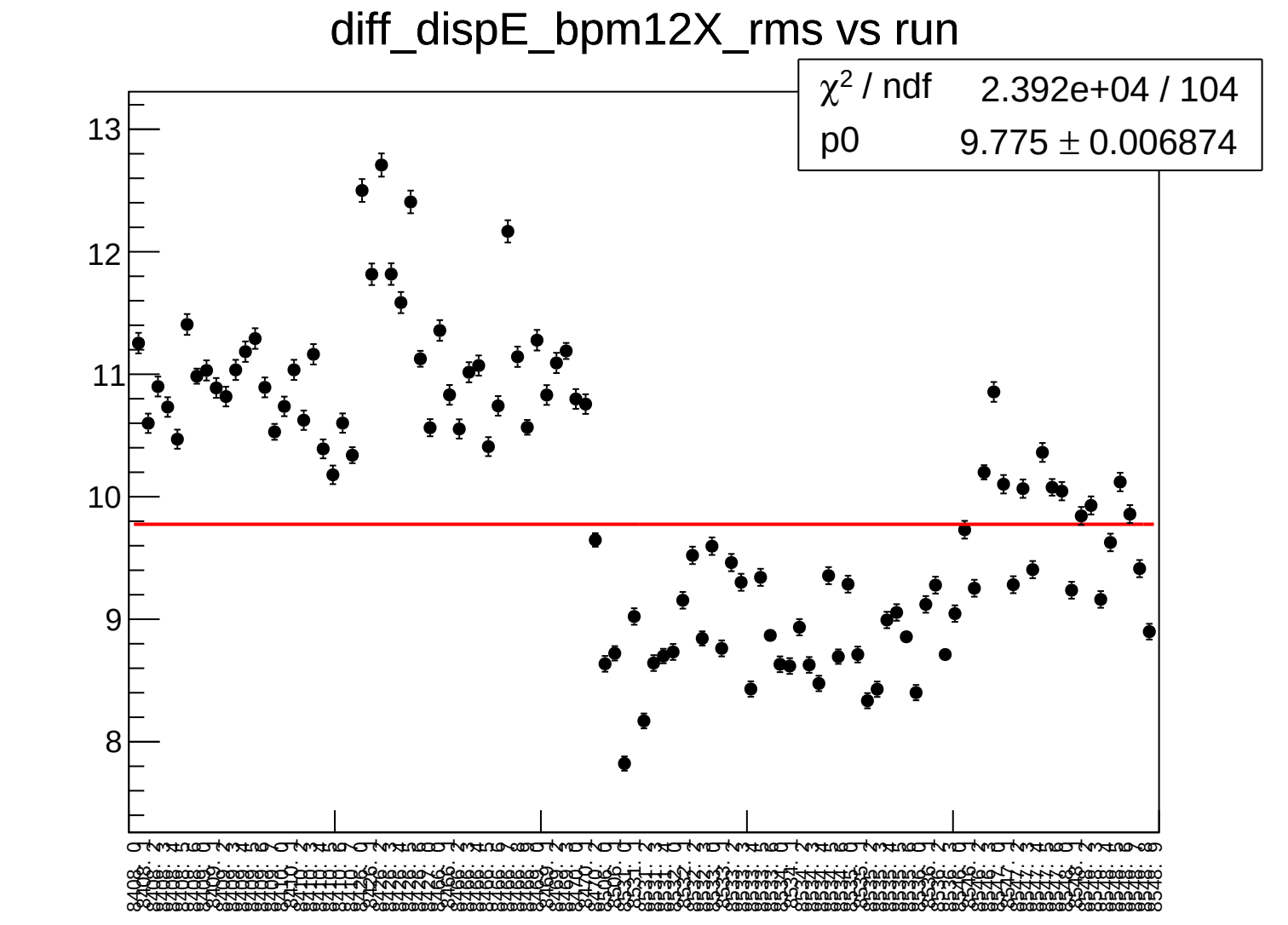

diff_bpm_4eY_4ecY_avg_rms vs run
χ^2 / ndf 6459 / 104
p0 5996 ± 4.198
7000
6500
6000
5500
5000

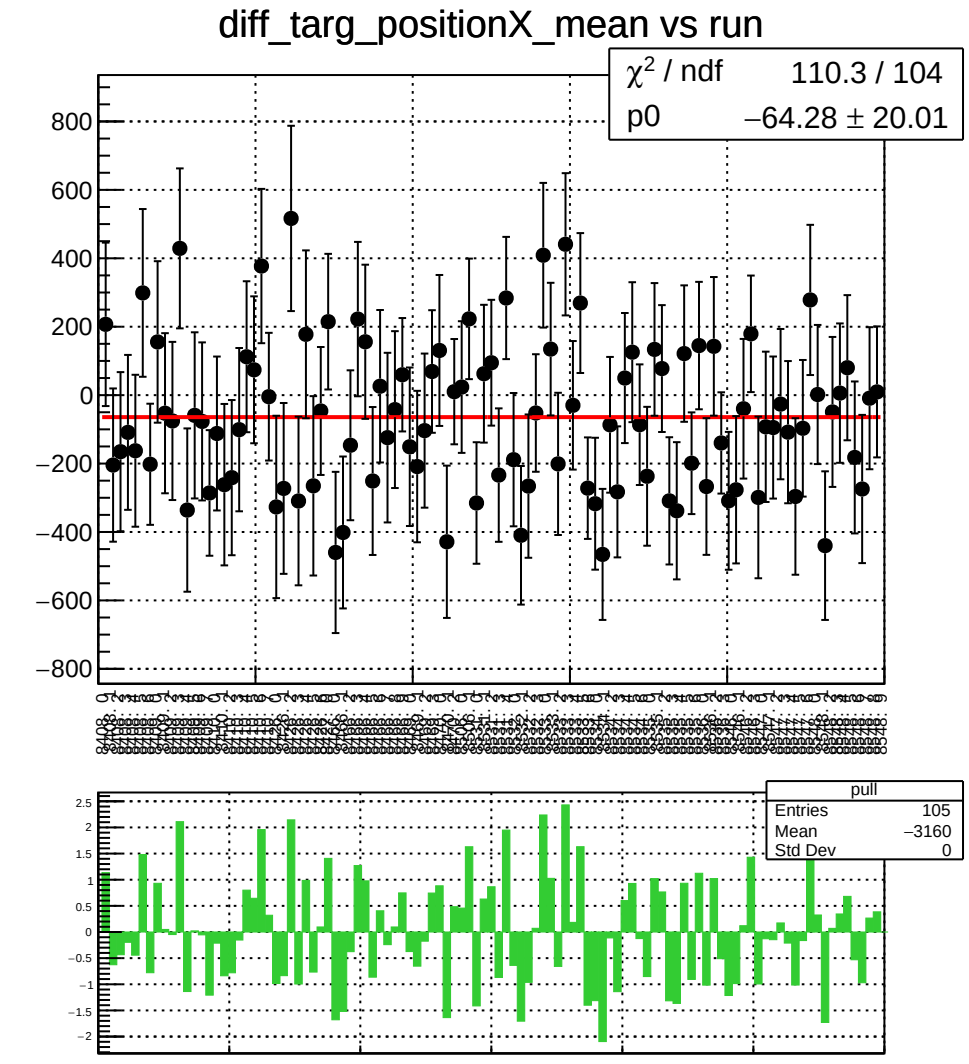

diff_bpm_4eY_4ecY_dd_mean vs run
χ² / ndf 117.7 / 104
p0 −1.159 ± 0.7865
40
20
0
−20
−40
pull
Entries 105
Mean 356
Std Dev 0
2
1
0
−1
−2

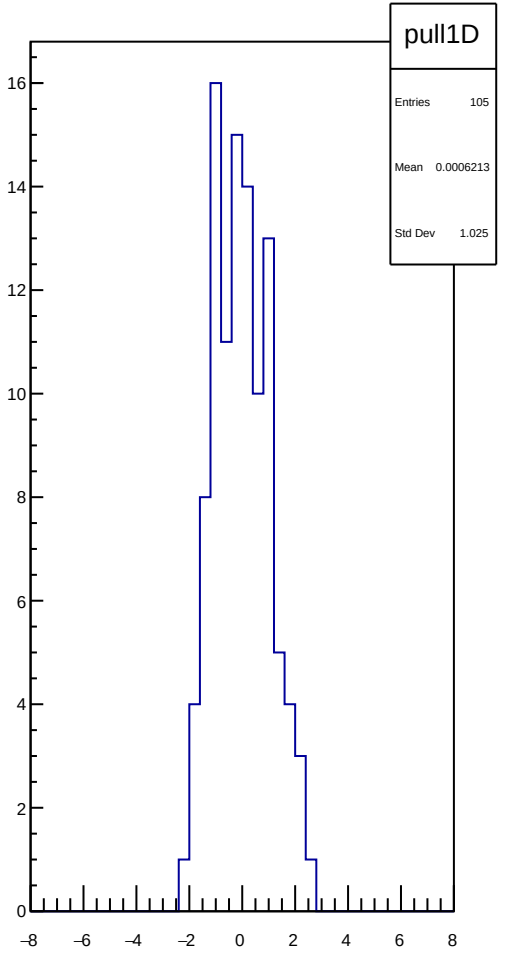

pull1D
Entries 105
Mean −0.006237
Std Dev 1.059
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

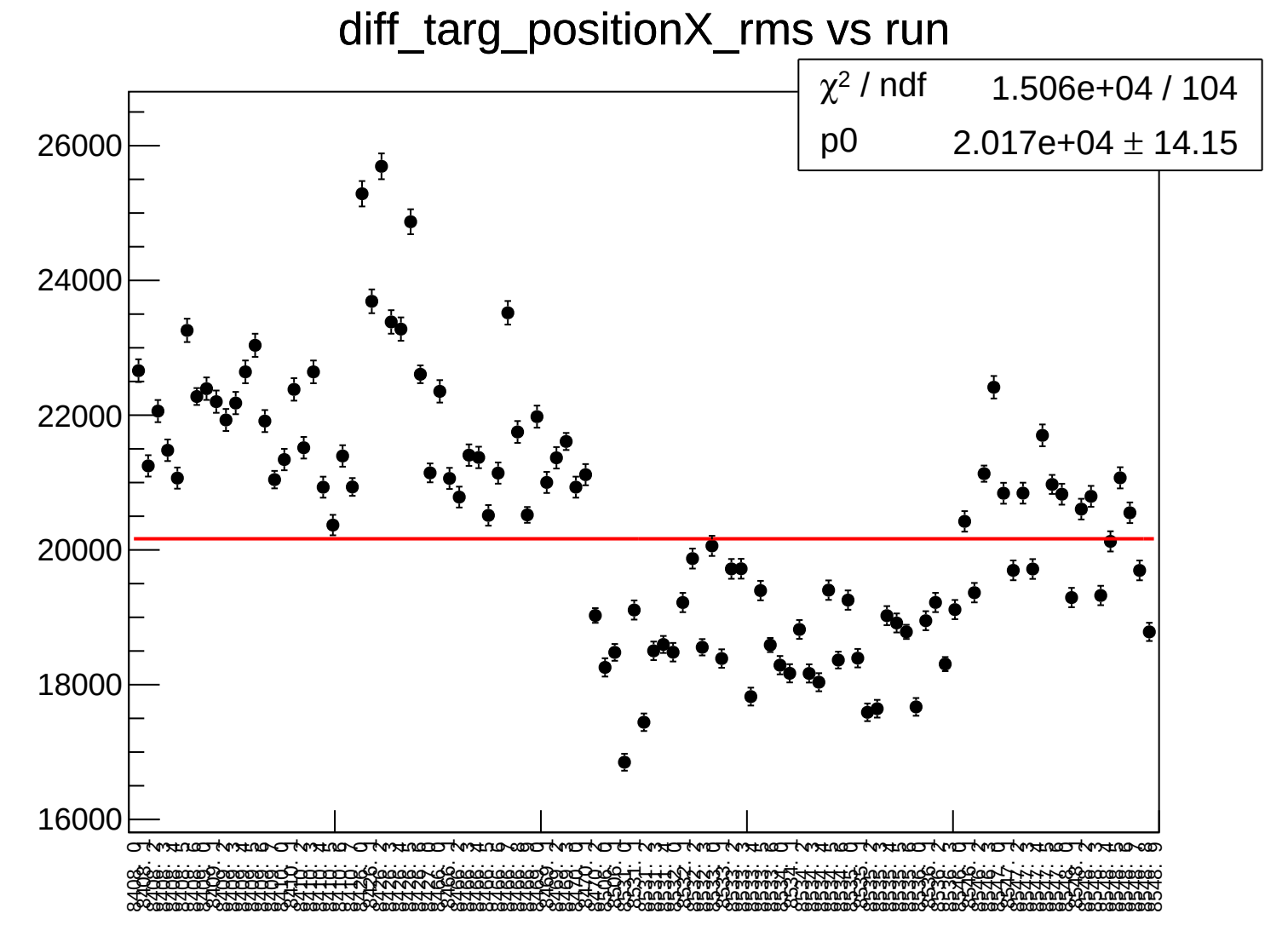

diff_bpm_4eY_4ecY_dd_rms vs run
χ² / ndf 8.643e+04 / 104
p0 778.5 ± 0.5561
1500
1400
1300
1200
1100
1000
900
800
700

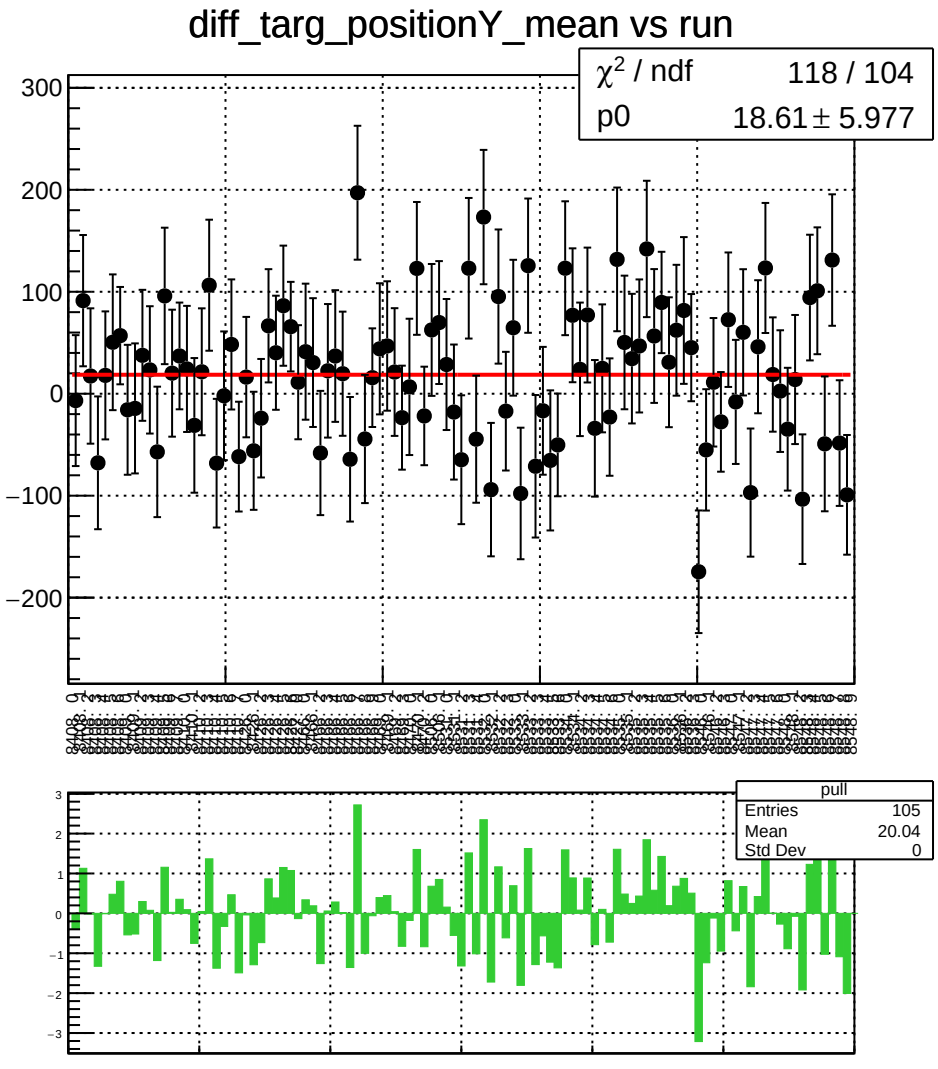

diff_dispE_bpm12X_mean vs run
χ² / ndf 102.1 / 104
p0 0.009034 ± 0.009721
pull
Entries 105
Mean 175.9
Std Dev 0
pull1D
Entries 105
Mean 0.003172
Std Dev 0.9862

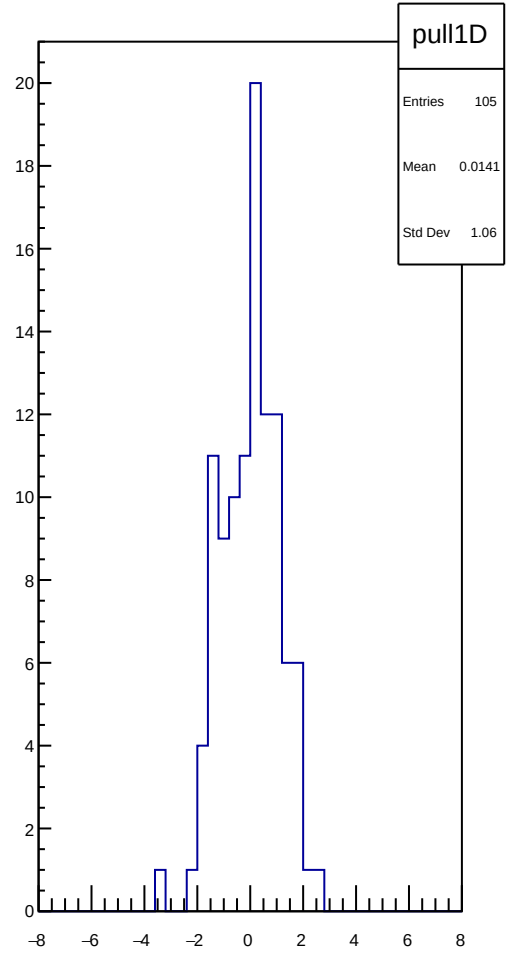

diff_dispE_bpm12X_rms vs run
χ^2 / ndf 2.392e+04 / 104
p0 9.775 ± 0.006874
13
12
11
10
9
8

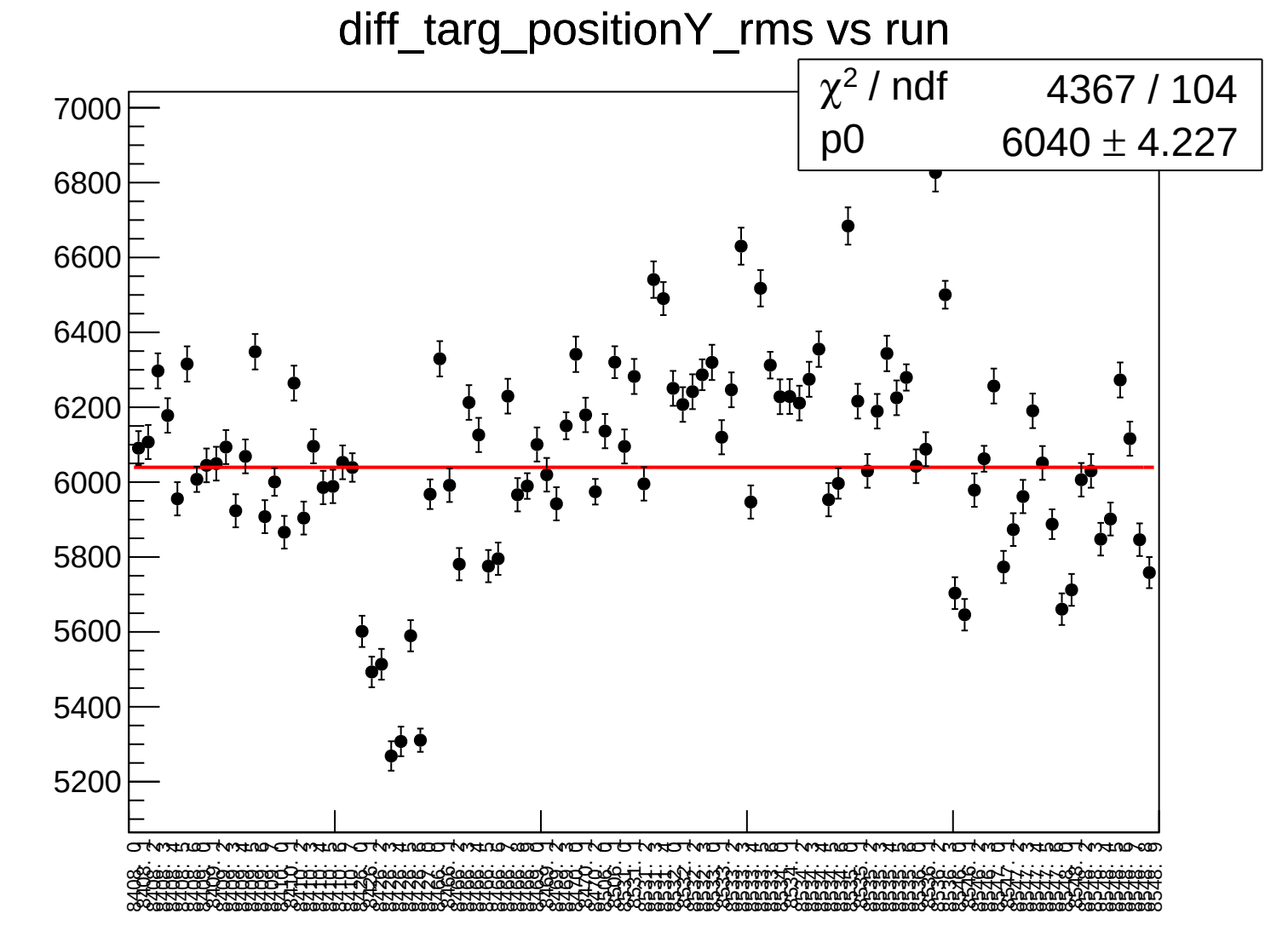

diff_targ_positionX_mean vs run
χ^2 / ndf 110.3 / 104
p0 −64.28 ± 20.01
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 105
Mean −3160
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

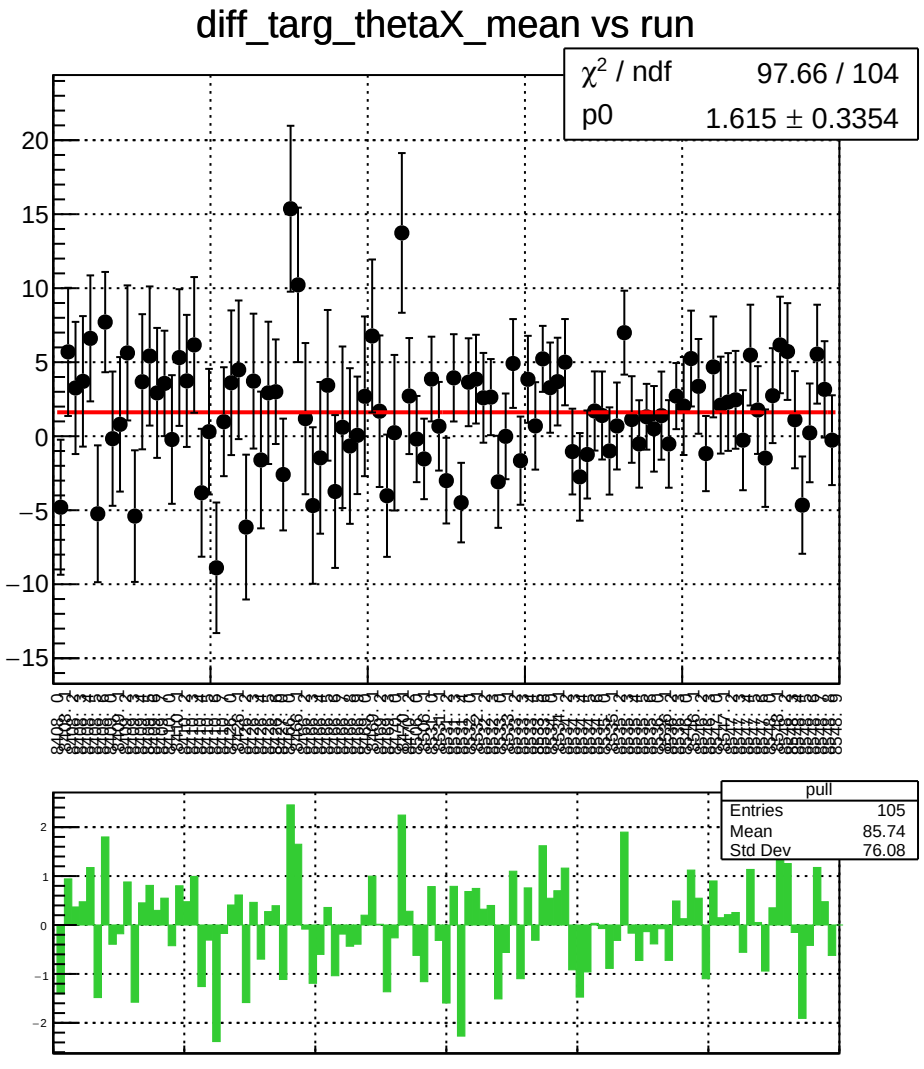

pull1D
Entries 105
Mean 0.0006213
Std Dev 1.025
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

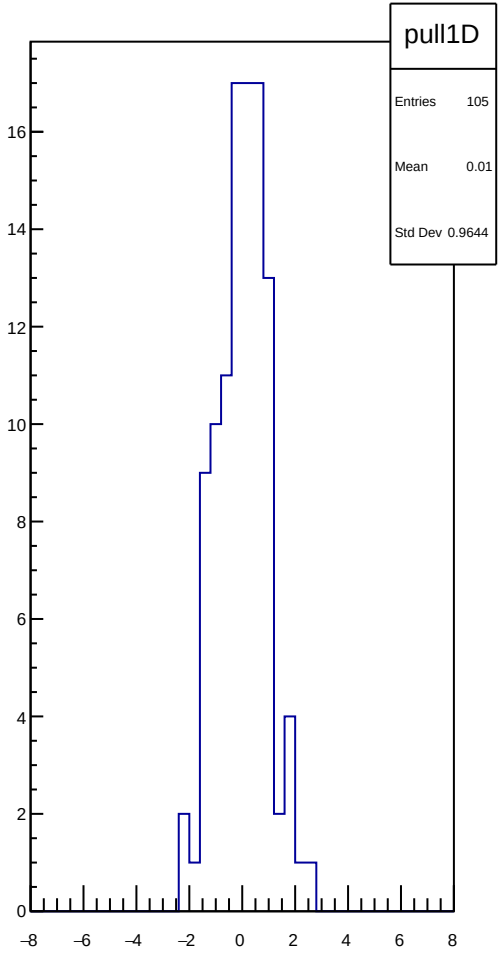

diff_targ_positionX_rms vs run
χ² / ndf 1.506e+04 / 104
p0 2.017e+04 ± 14.15
26000
24000
22000
20000
18000
16000

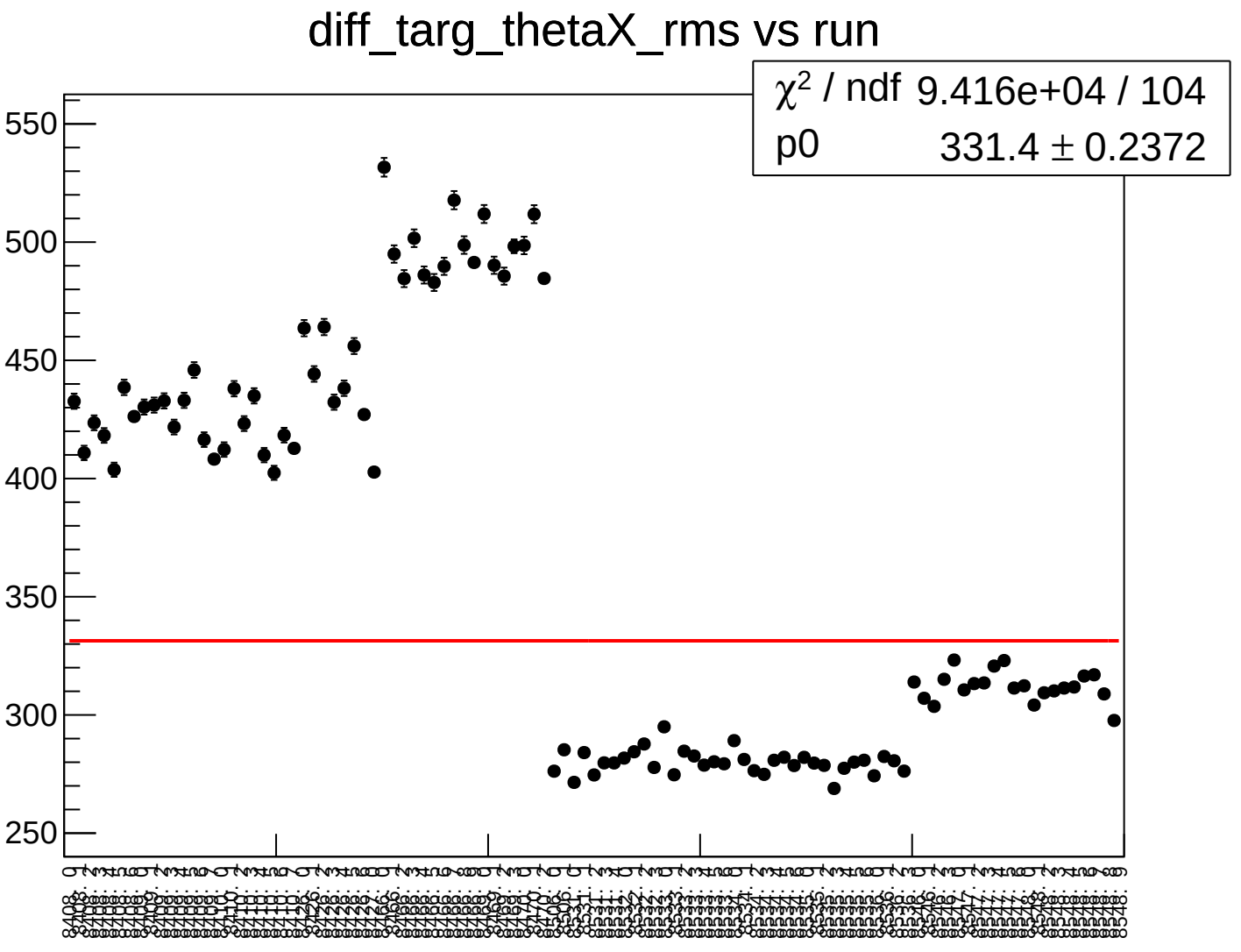

diff_targ_positionY_mean vs run
χ² / ndf 118 / 104
p0 18.61 ± 5.977
300
200
100
0
−100
−200
pull
Entries 105
Mean 20.04
Std Dev 0
3
2
1
0
−1
−2
−3

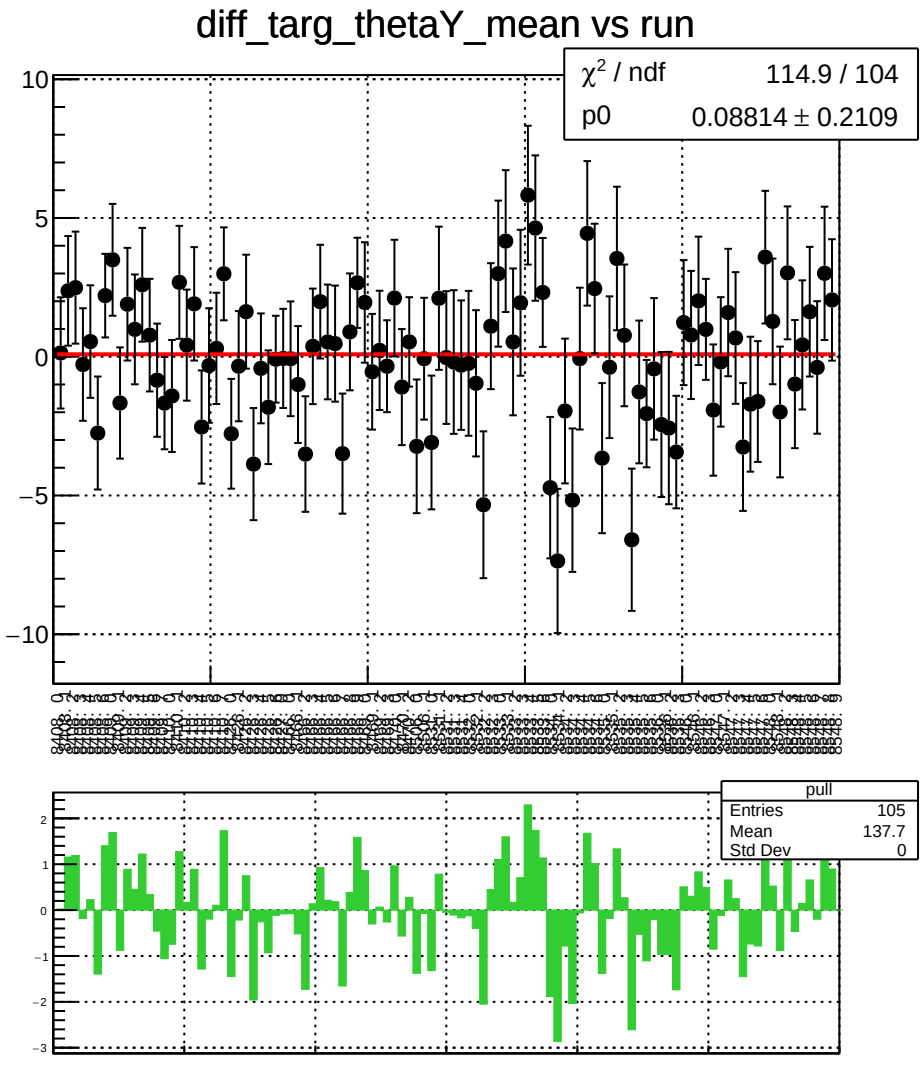

pull1D
Entries 105
Mean 0.0141
Std Dev 1.06
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

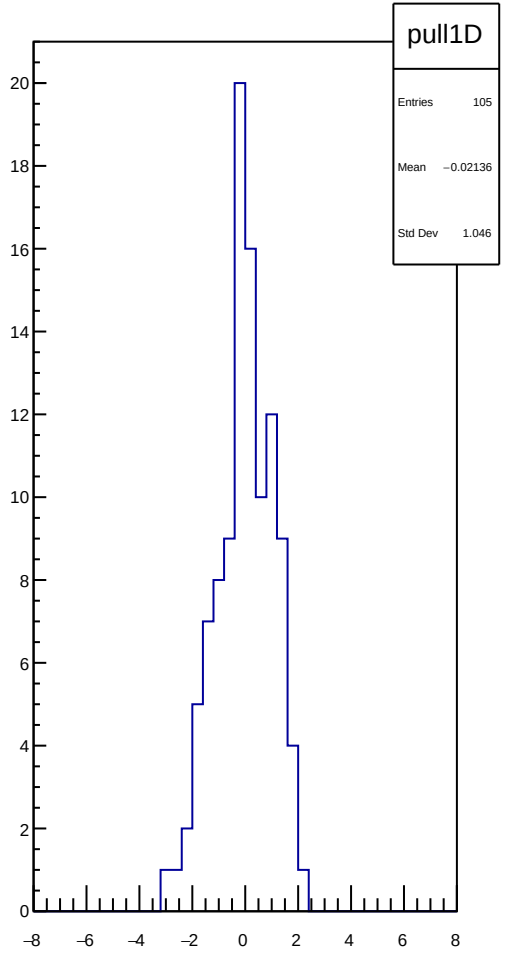

diff_targ_positionY_rms vs run
χ² / ndf 4367 / 104
p0 6040 ± 4.227
7000
6800
6600
6400
6200
6000
5800
5600
5400
5200

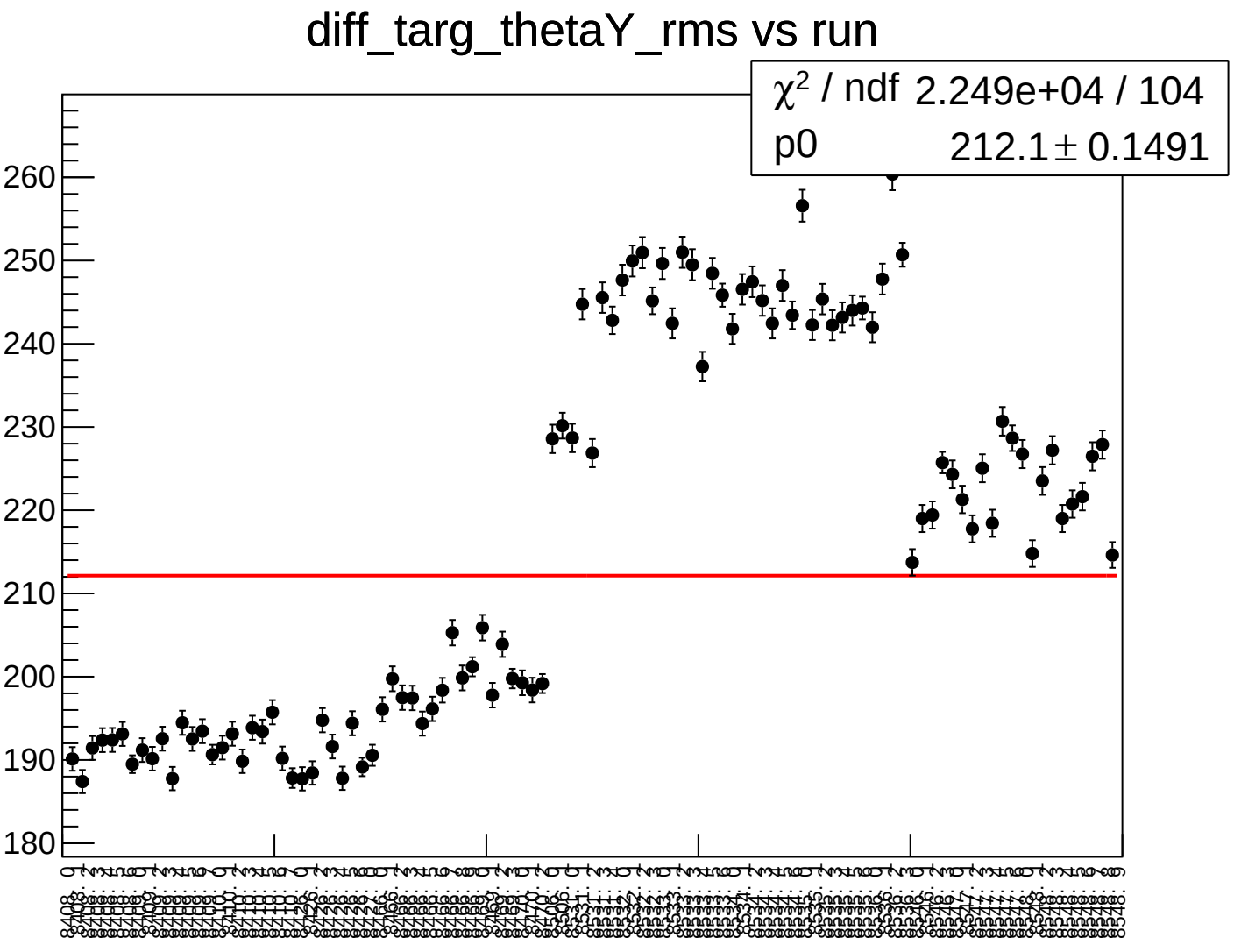

diff_targ_thetaX_mean vs run
χ² / ndf 97.66 / 104
p0 1.615 ± 0.3354
pull
Entries 105
Mean 85.74
Std Dev 76.08

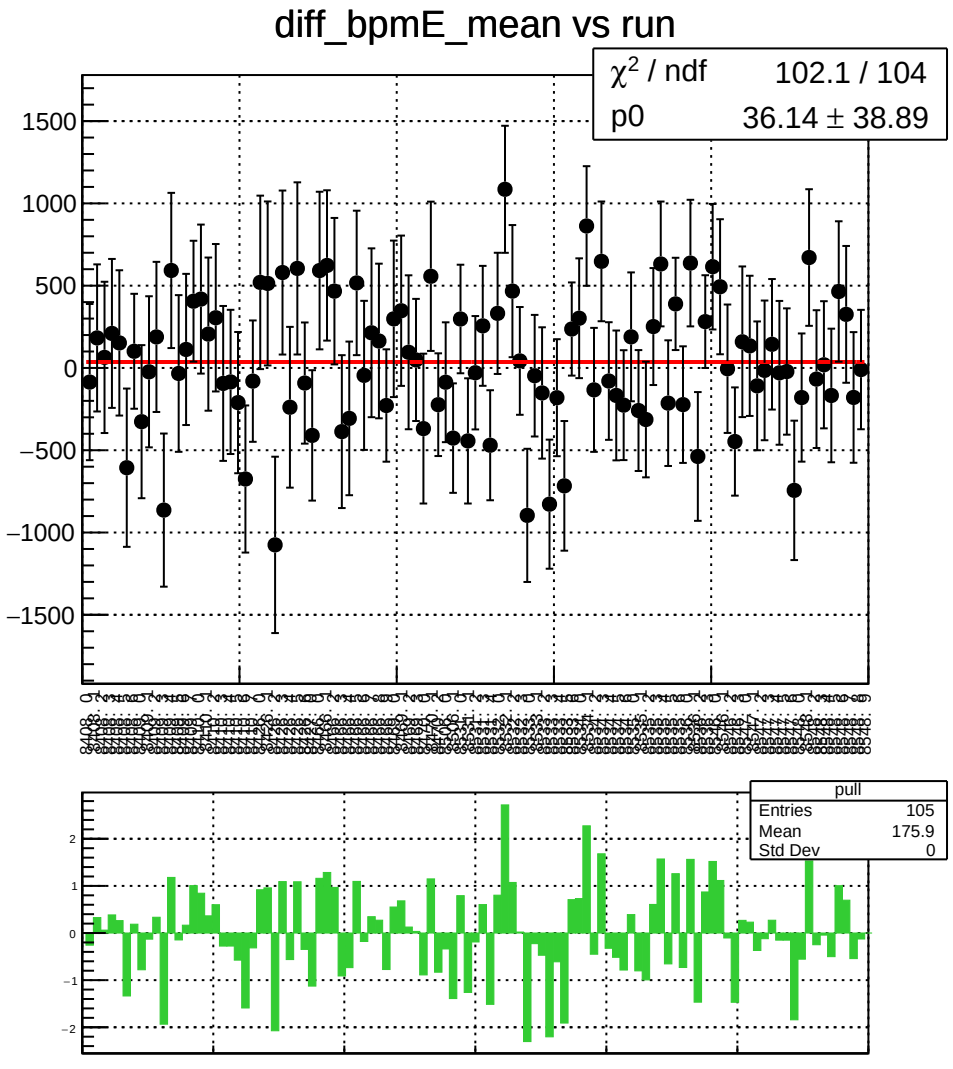

pull1D
Entries 105
Mean 0.01
Std Dev 0.9644

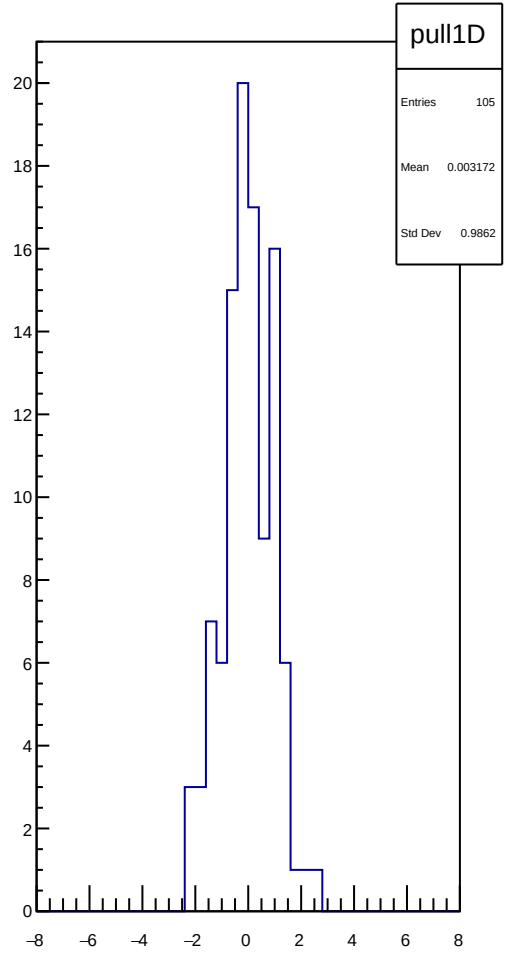

diff_targ_thetaX_rms vs run
χ^2 / ndf 9.416e+04 / 104
p0 331.4 ± 0.2372
550
500
450
400
350
300
250

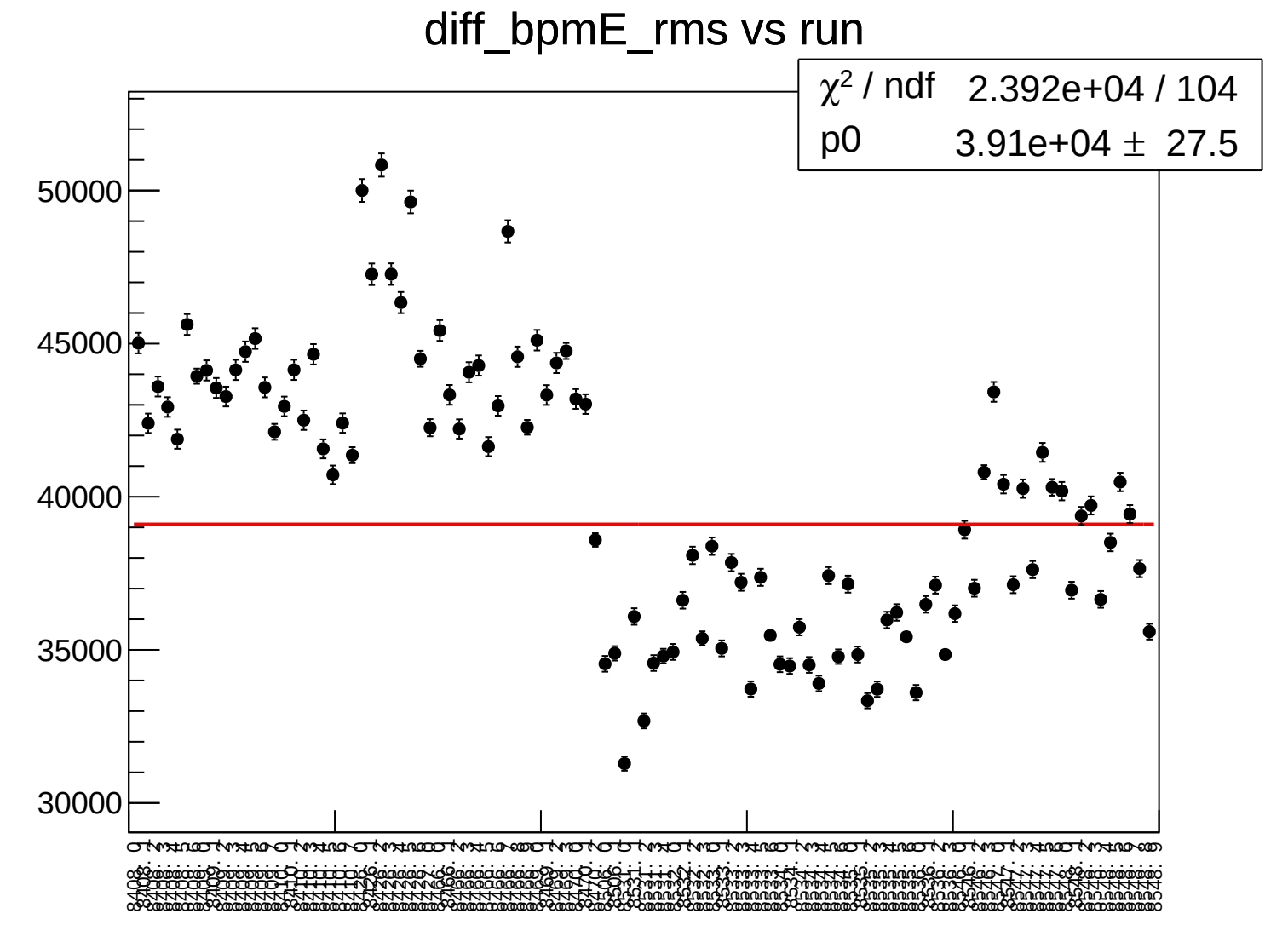

diff_targ_thetaY_mean vs run
χ² / ndf 114.9 / 104
p0 0.08814 ± 0.2109
pull
Entries 105
Mean 137.7
Std Dev 0

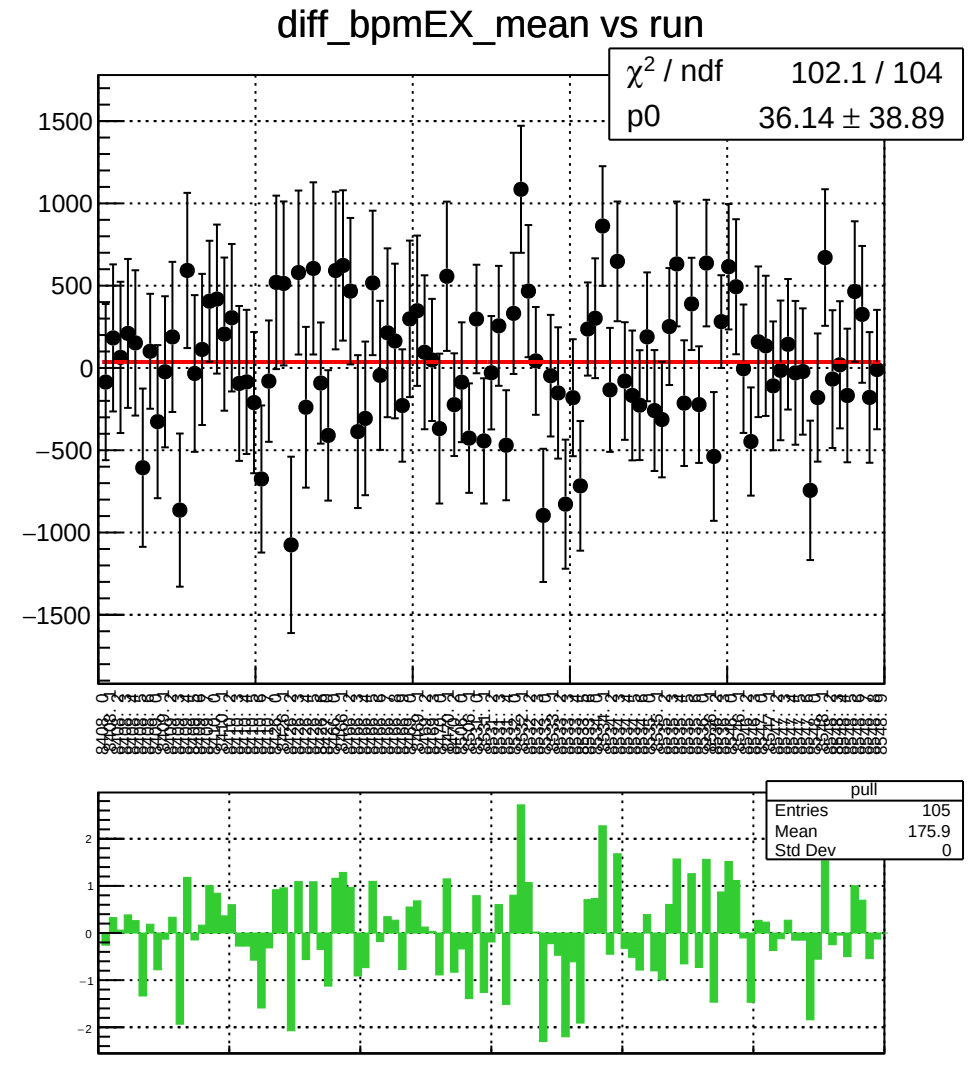

pull1D
Entries 105
Mean −0.02136
Std Dev 1.046

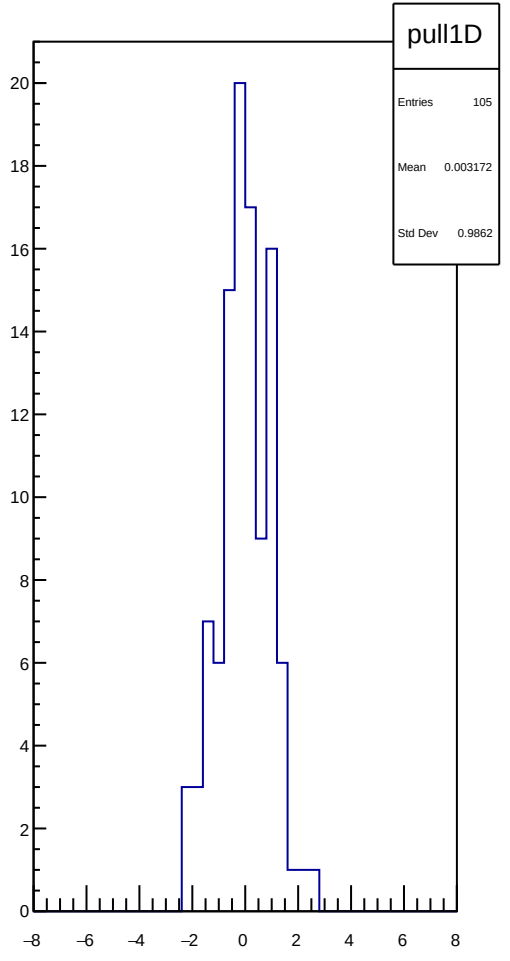

diff_targ_thetaY_rms vs run
χ² / ndf 2.249e+04 / 104
p0 212.1 ± 0.1491
260
250
240
230
220
210
200
190
180

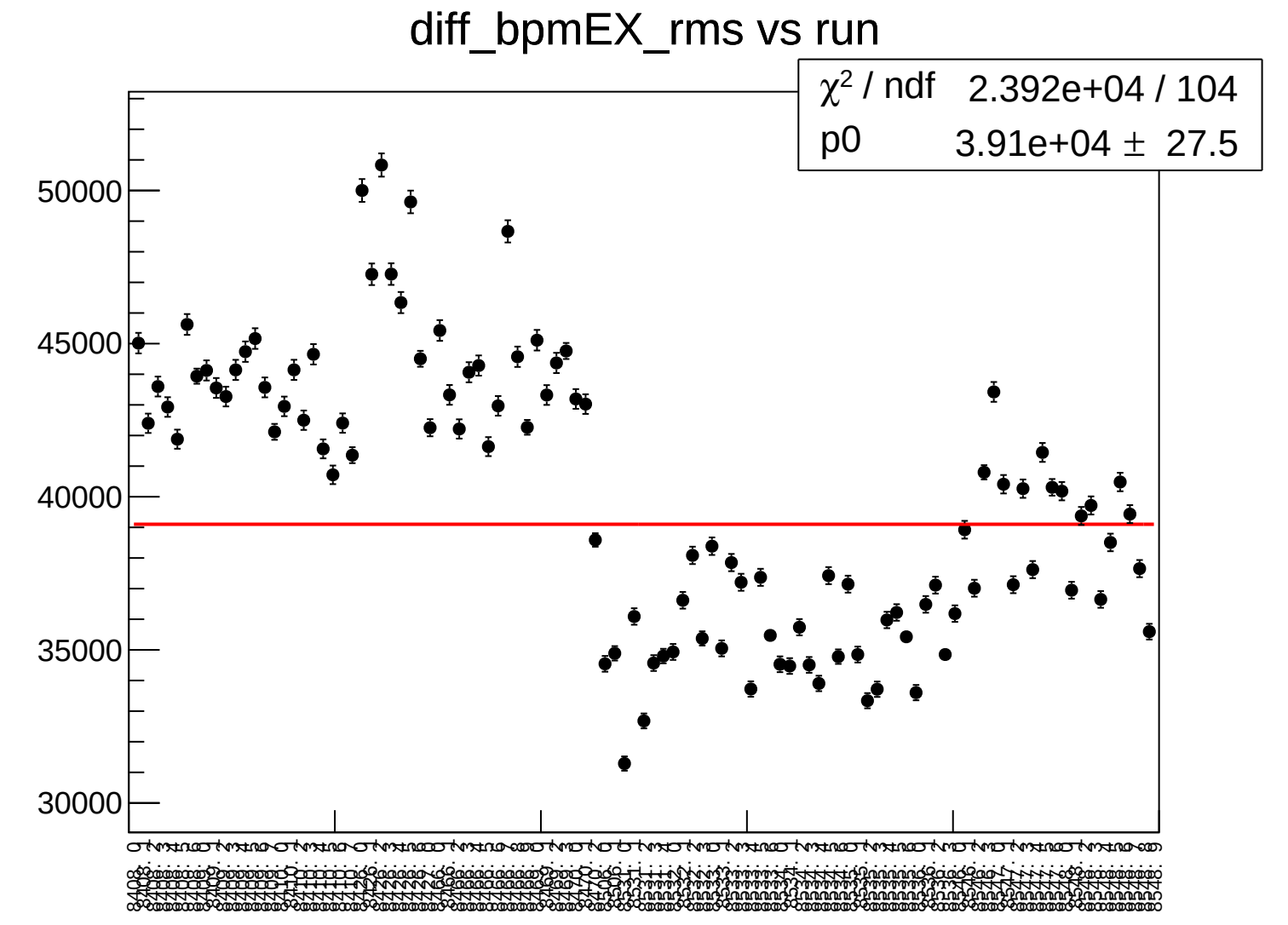

diff_bpmE_mean vs run
χ² / ndf 102.1 / 104
p0 36.14 ± 38.89
1500
1000
500
0
−500
−1000
−1500
pull
Entries 105
Mean 175.9
Std Dev 0
2
1
0
−1
−2

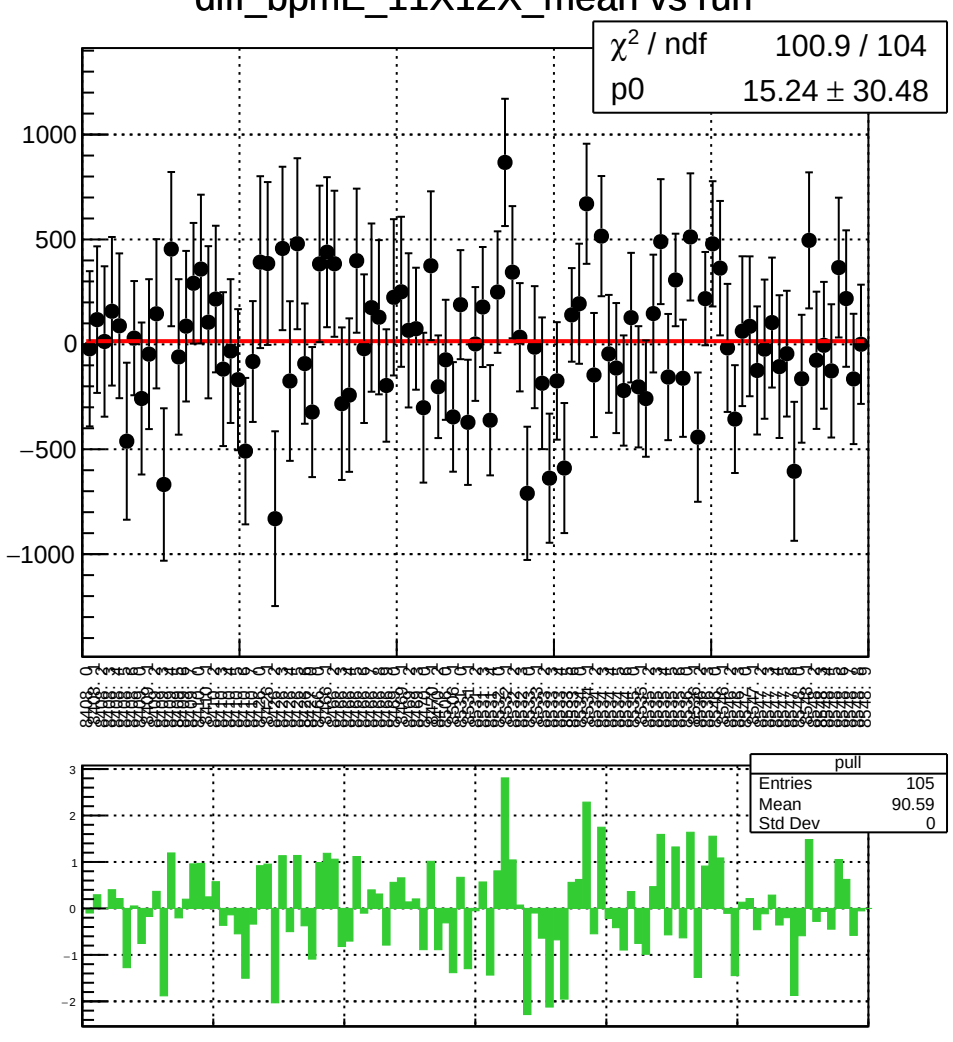

pull1D
Entries 105
Mean 0.003172
Std Dev 0.9862
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

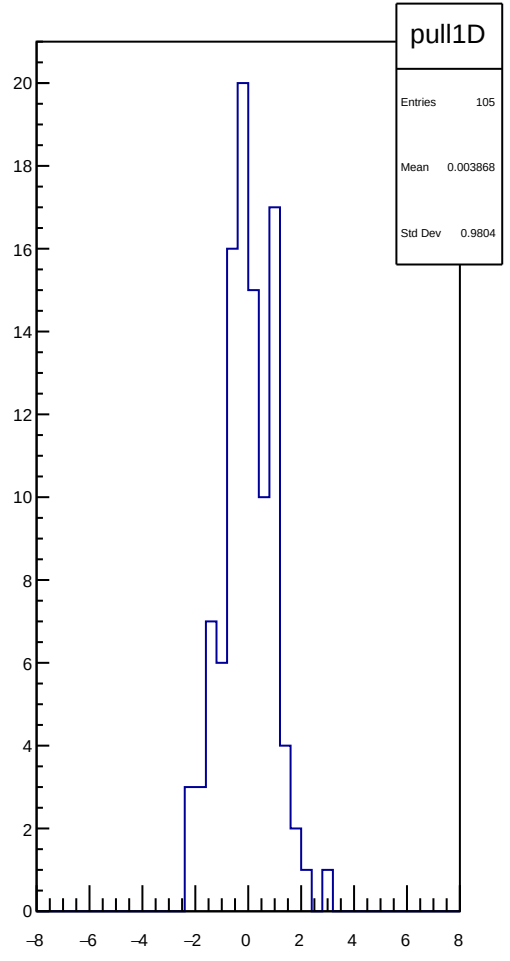

diff_bpmE_rms vs run
χ² / ndf 2.392e+04 / 104
p0 3.91e+04 ± 27.5
50000
45000
40000
35000
30000

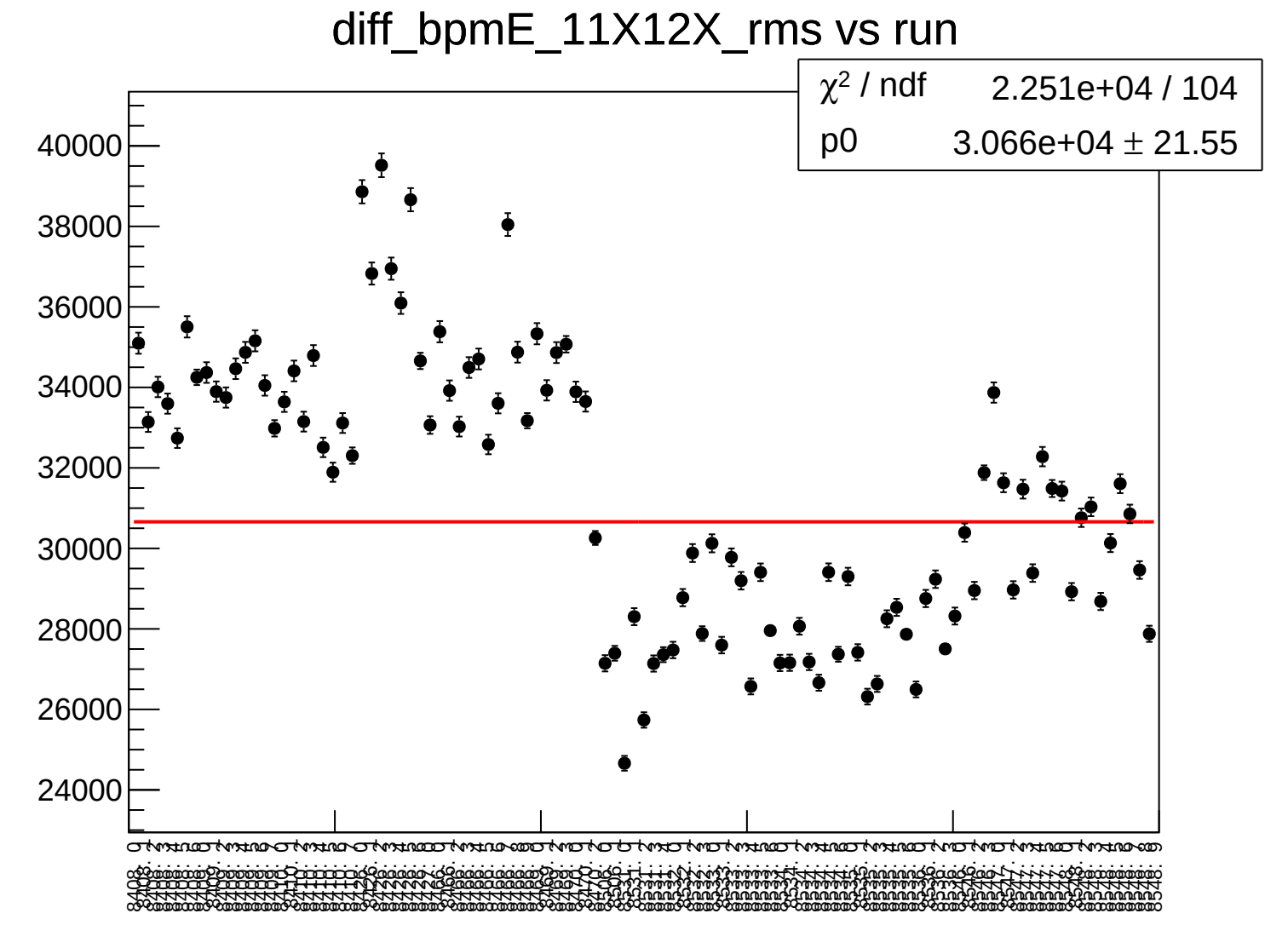

diff_bpmEX_mean vs run
χ² / ndf 102.1 / 104
p0 36.14 ± 38.89
1500
1000
500
0
−500
−1000
−1500
pull
Entries 105
Mean 175.9
Std Dev 0
2
1
0
−1
−2

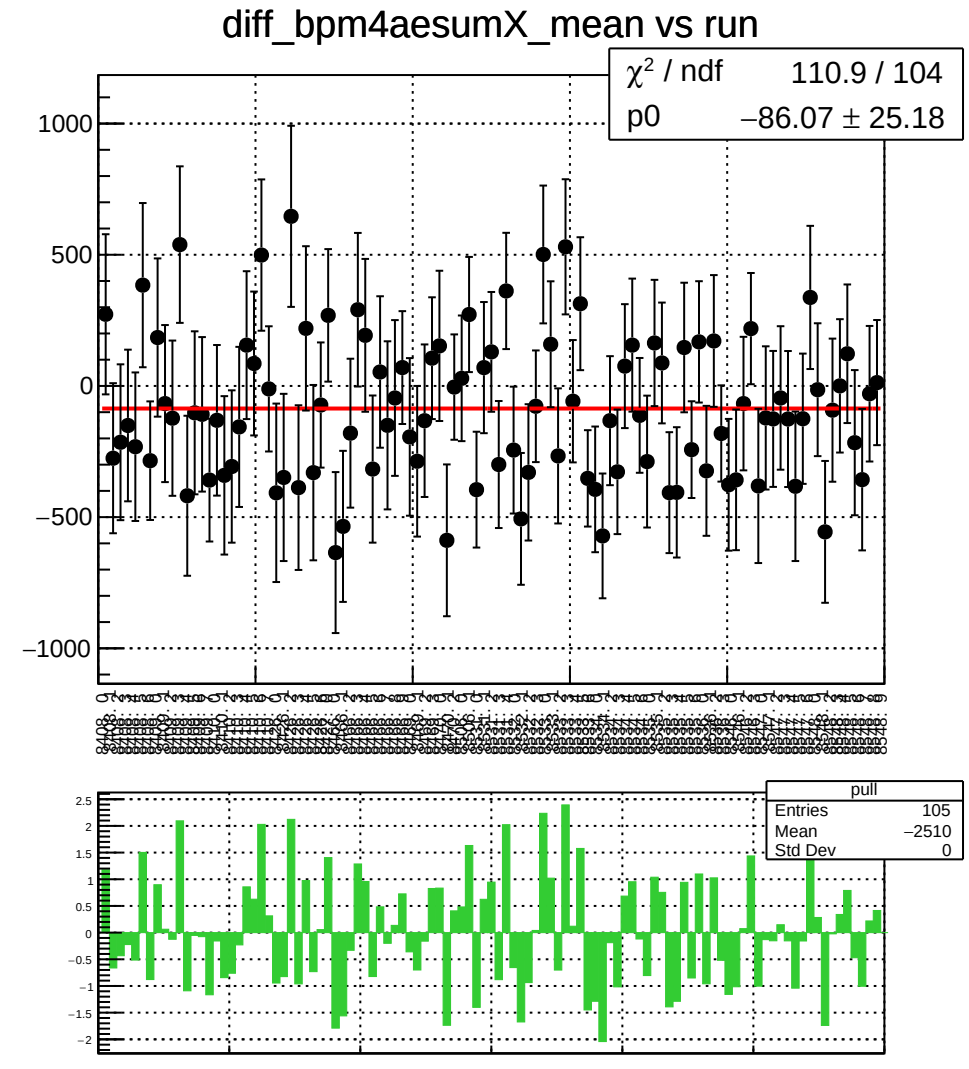

pull1D
Entries 105
Mean 0.003172
Std Dev 0.9862
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

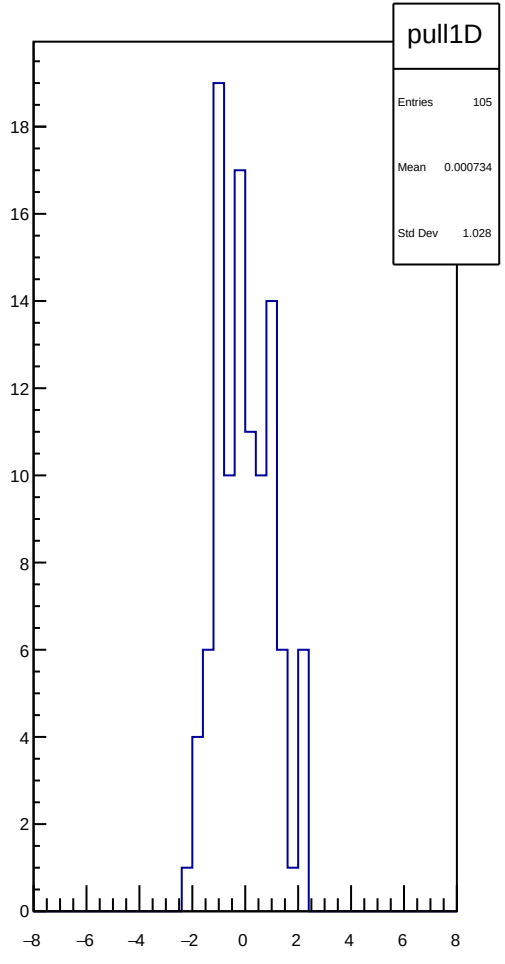

diff_bpmEX_rms vs run
χ² / ndf 2.392e+04 / 104
p0 3.91e+04 ± 27.5
50000
45000
40000
35000
30000


diff_bpmE_11X12X_mean vs run
χ² / ndf 100.9 / 104
p0 15.24 ± 30.48
1000
500
0
−500
−1000
pull
Entries 105
Mean 90.59
Std Dev 0
3
2
1
0
−1
−2

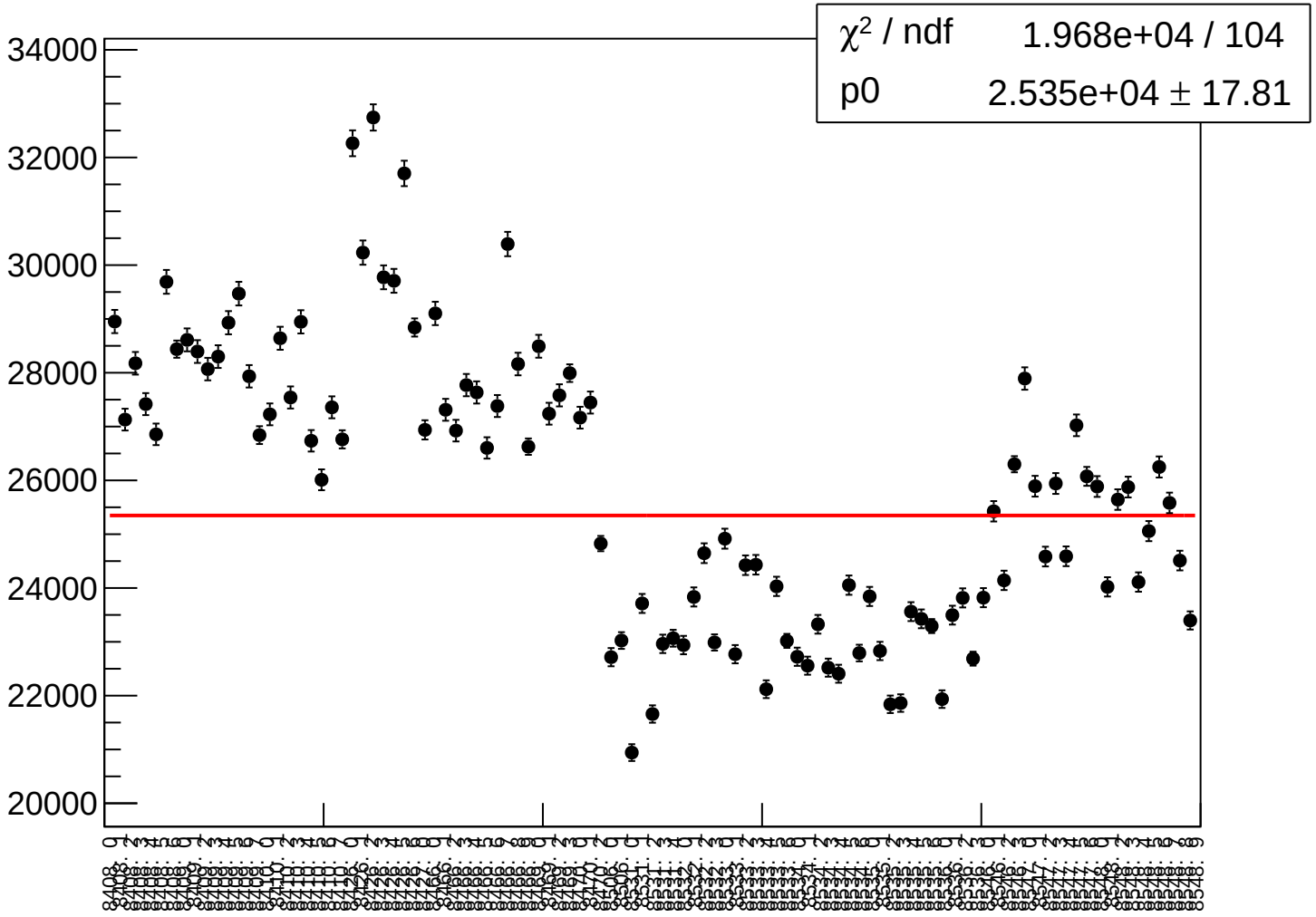

pull1D
Entries 105
Mean 0.003868
Std Dev 0.9804
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

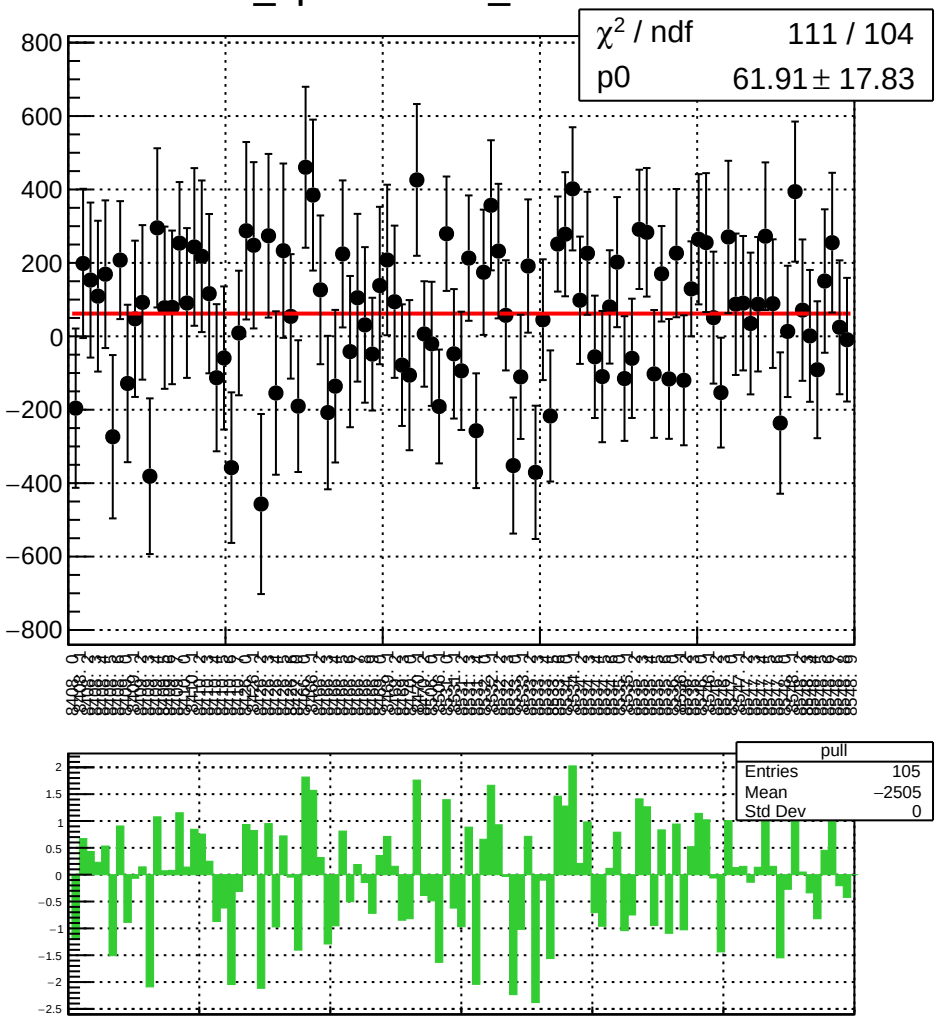

diff_bpmE_11X12X_rms vs run
χ² / ndf 2.251e+04 / 104
p0 3.066e+04 ± 21.55
40000
38000
36000
34000
32000
30000
28000
26000
24000

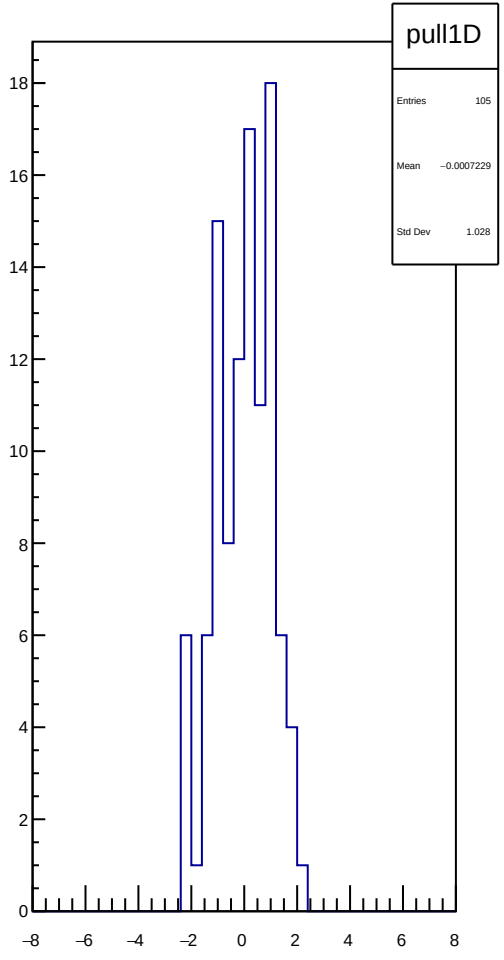

diff_bpm4aesumX_mean vs run
χ² / ndf 110.9 / 104
p0 −86.07 ± 25.18
1000
500
0
−500
−1000
pull
Entries 105
Mean −2510
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

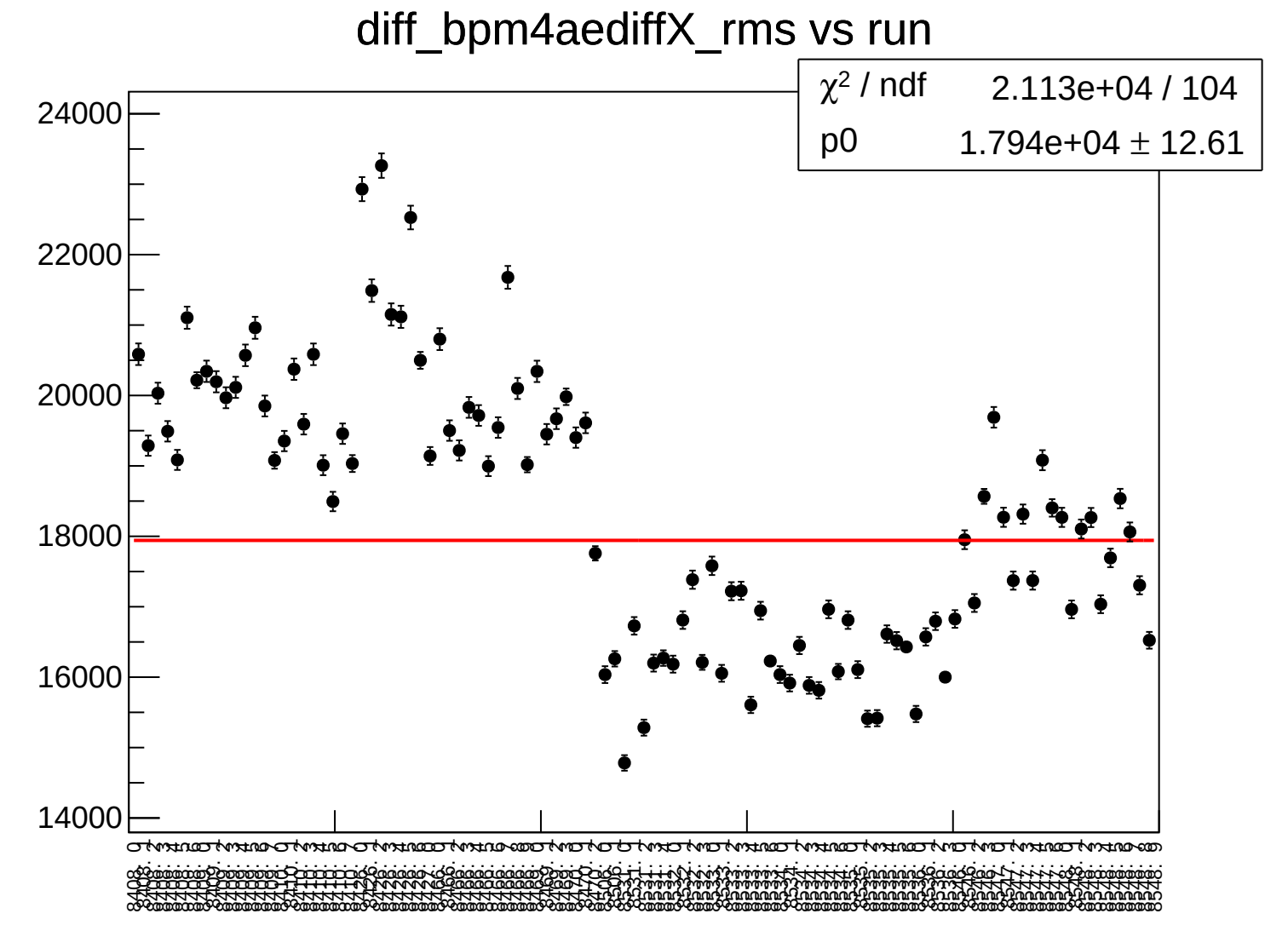

pull1D
Entries 105
Mean 0.000734
Std Dev 1.028
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

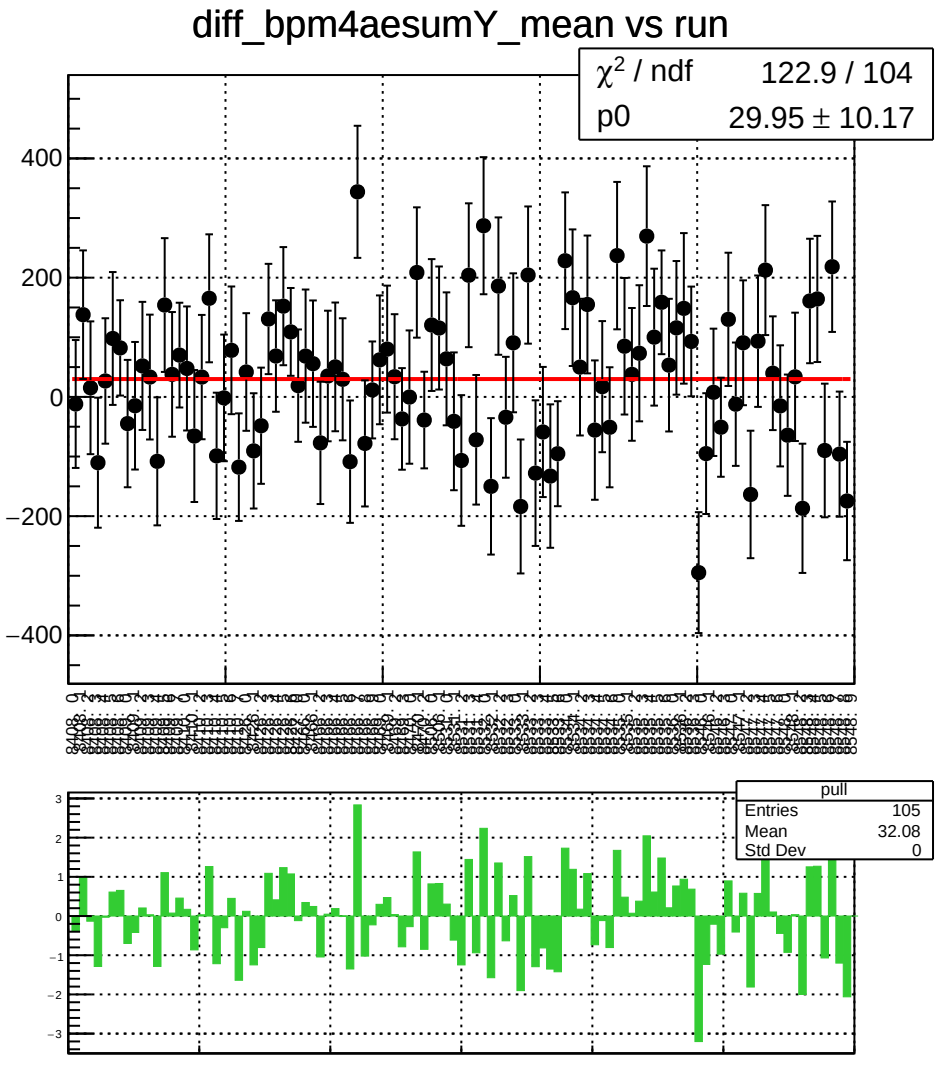
diff_bpm4aesumX_rms vs run

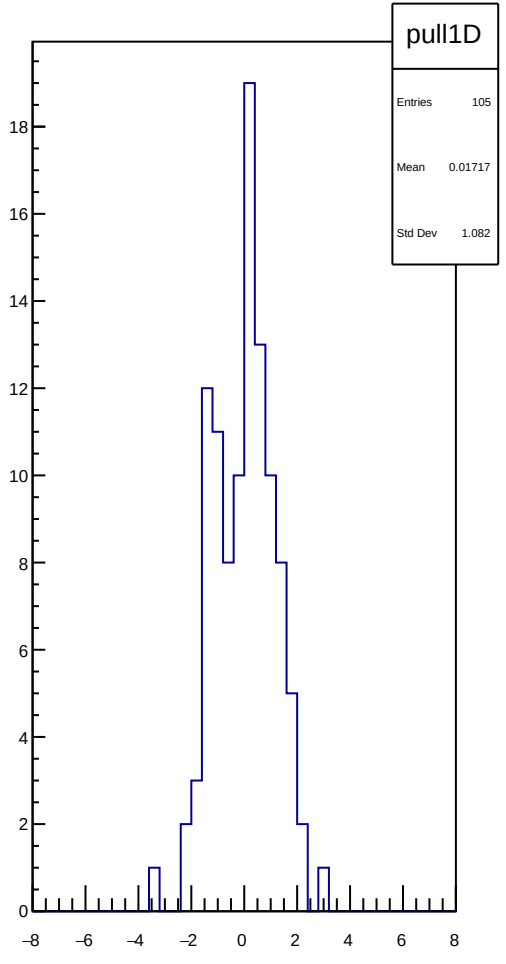


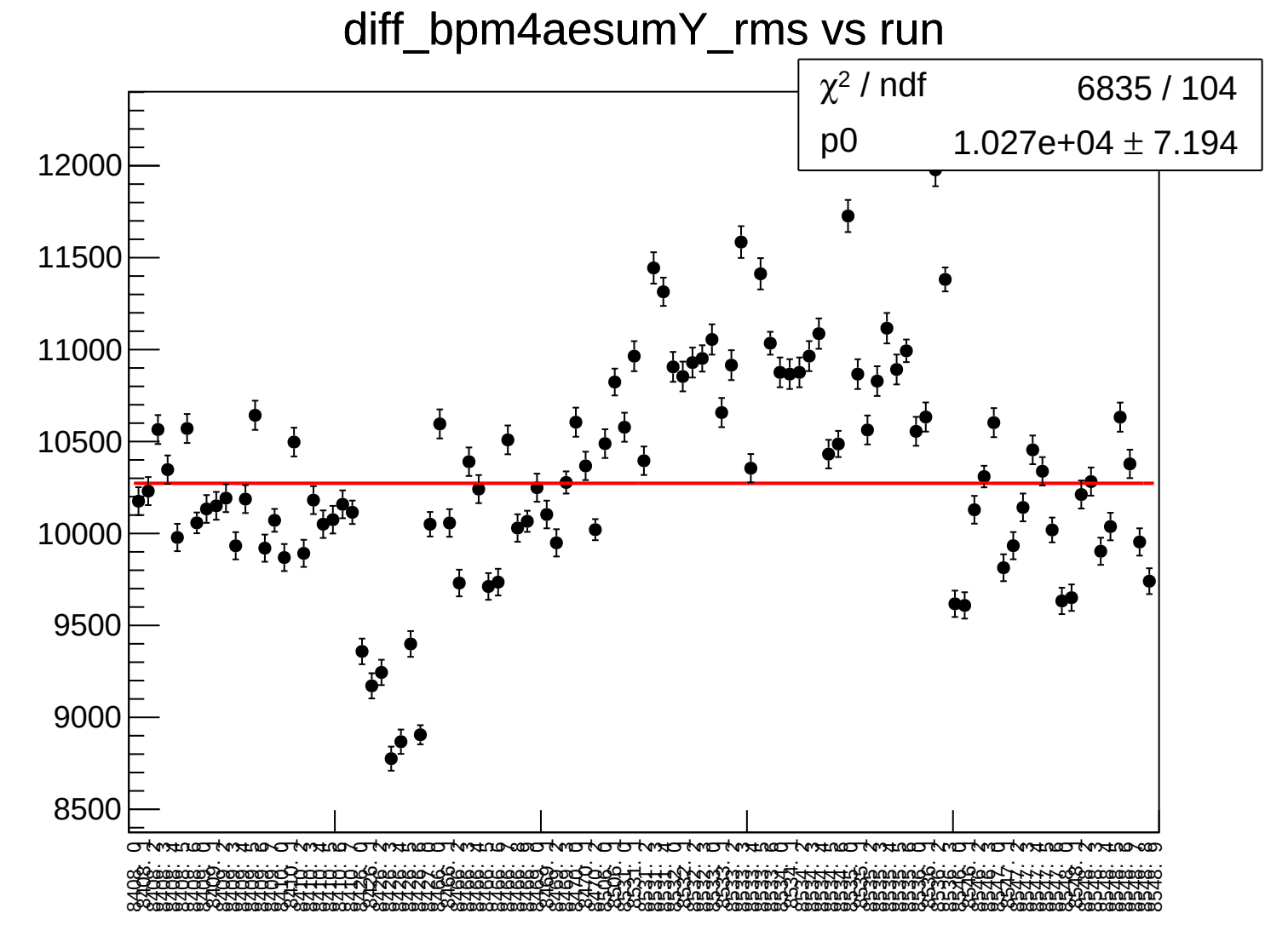

diff_bpm4aediffX_mean vs run
χ² / ndf 111 / 104
p0 61.91 ± 17.83
pull
Entries 105
Mean −2505
Std Dev 0

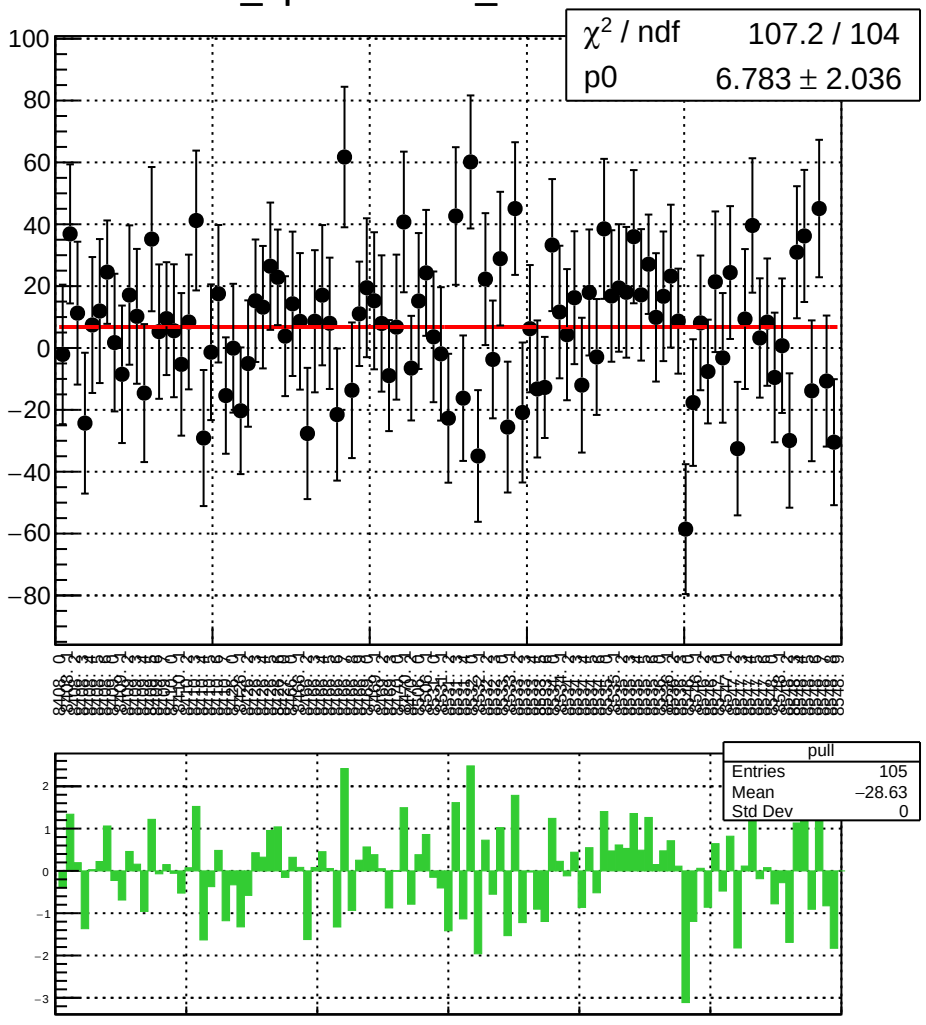

pull1D
Entries 105
Mean −0.0007229
Std Dev 1.028

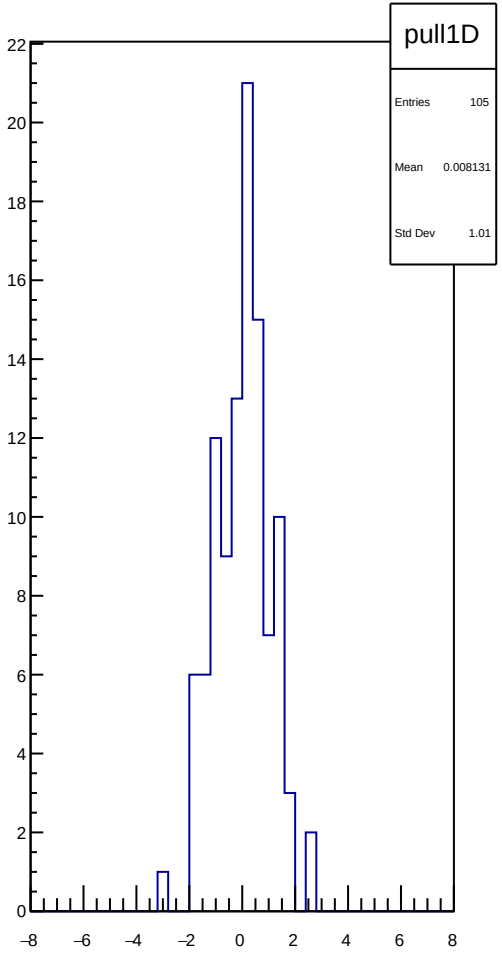

diff_bpm4aediffX_rms vs run
χ² / ndf 2.113e+04 / 104
p0 1.794e+04 ± 12.61
24000
22000
20000
18000
16000
14000

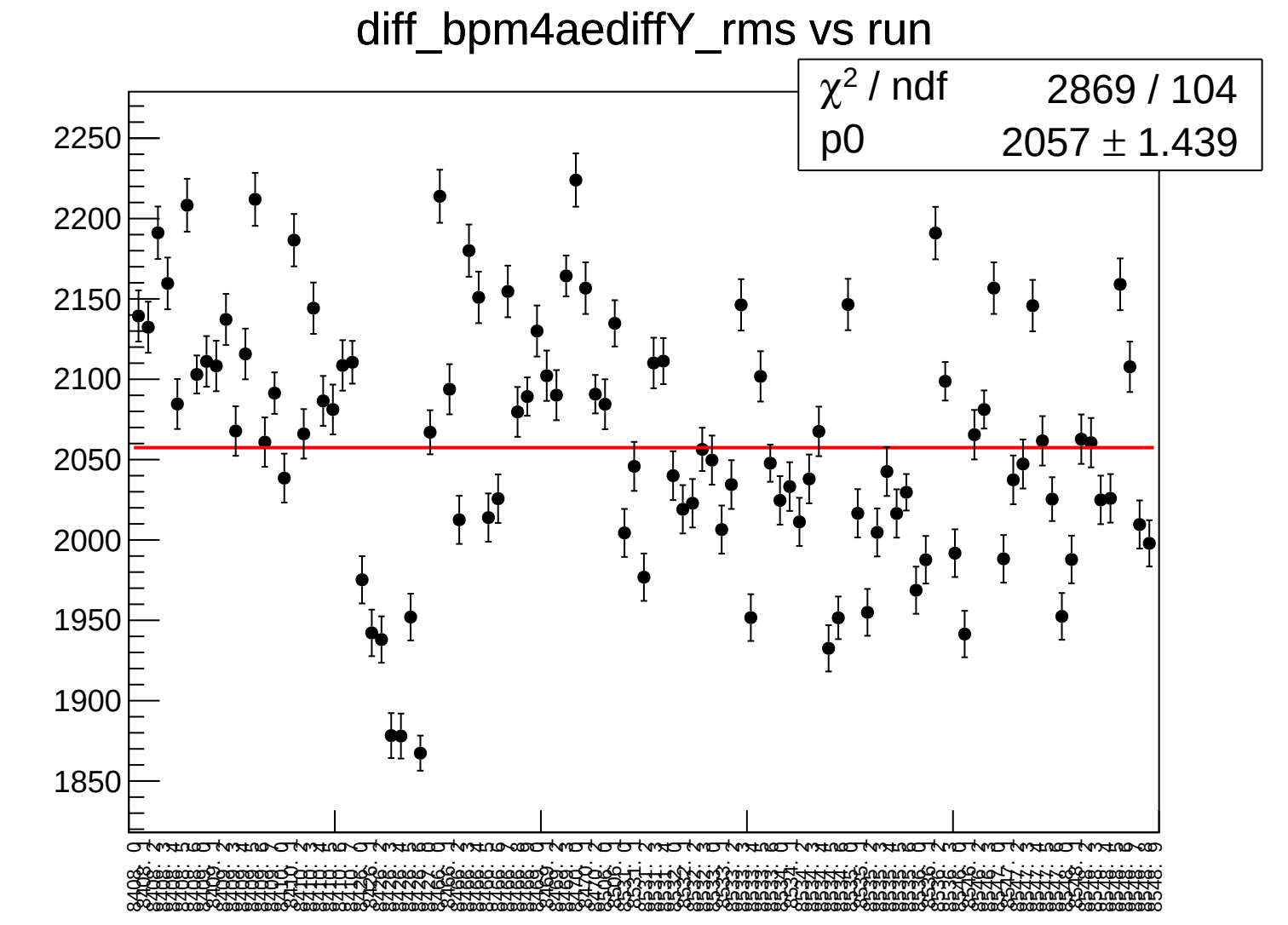

diff_bpm4aesumY_mean vs run
χ² / ndf 122.9 / 104
p0 29.95 ± 10.17
400
200
0
−200
−400
pull
Entries 105
Mean 32.08
Std Dev 0
3
2
1
0
−1
−2
−3

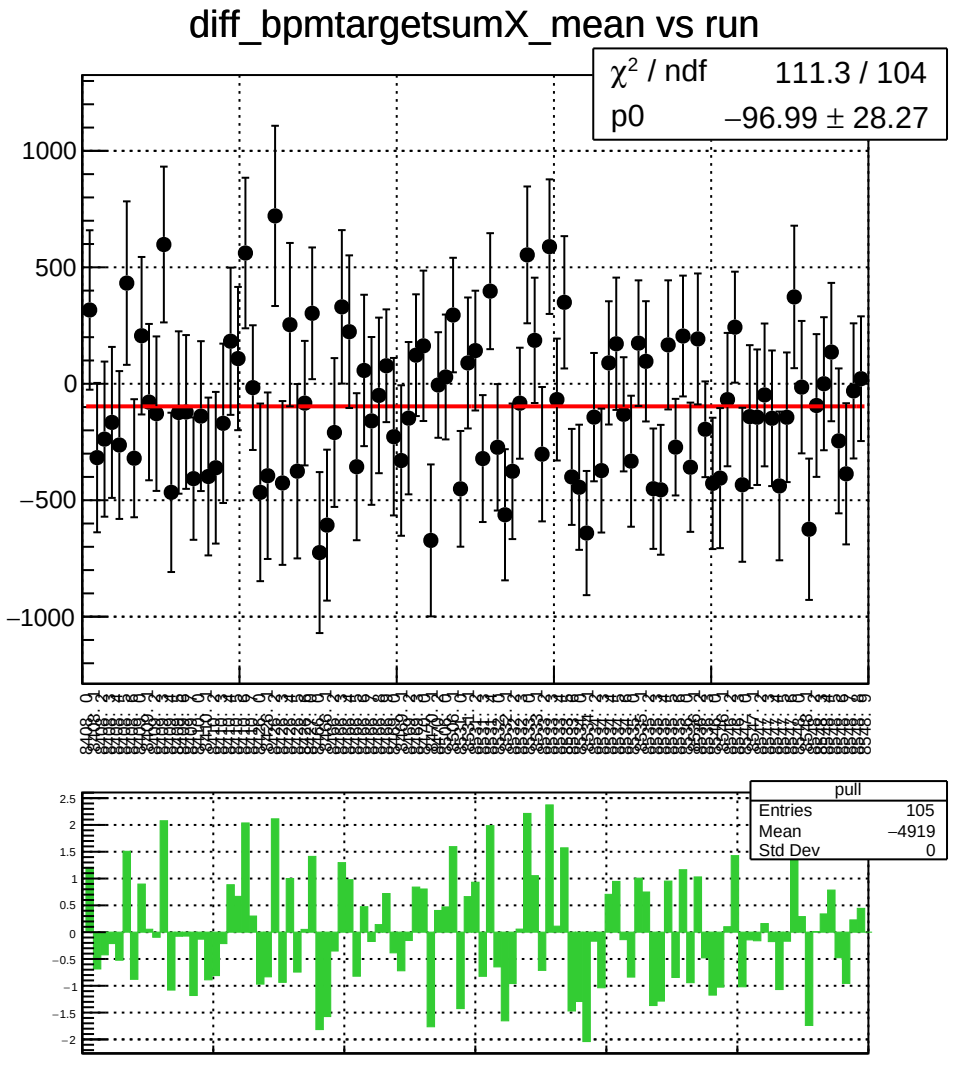

pull1D
Entries 105
Mean 0.01717
Std Dev 1.082
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

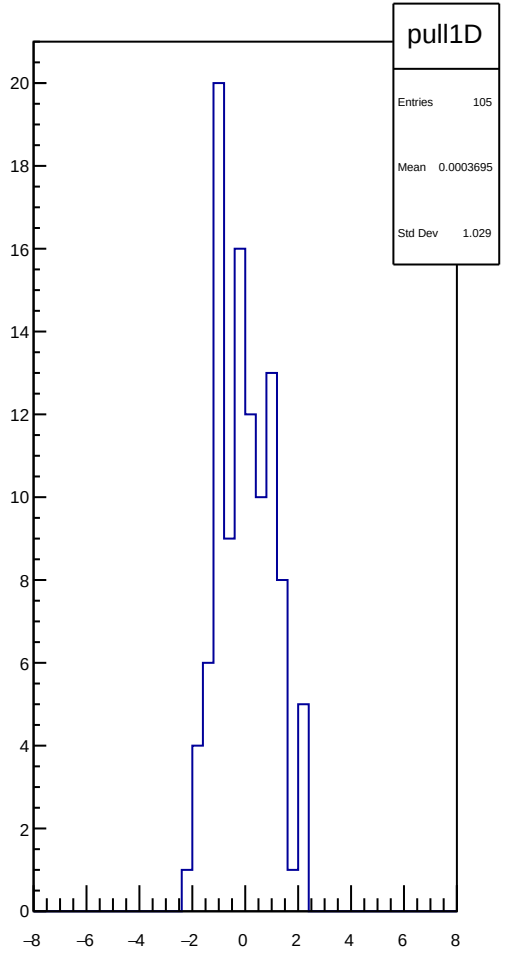

diff_bpm4aesumY_rms vs run
χ² / ndf 6835 / 104
p0 1.027e+04 ± 7.194
12000
11500
11000
10500
10000
9500
9000
8500

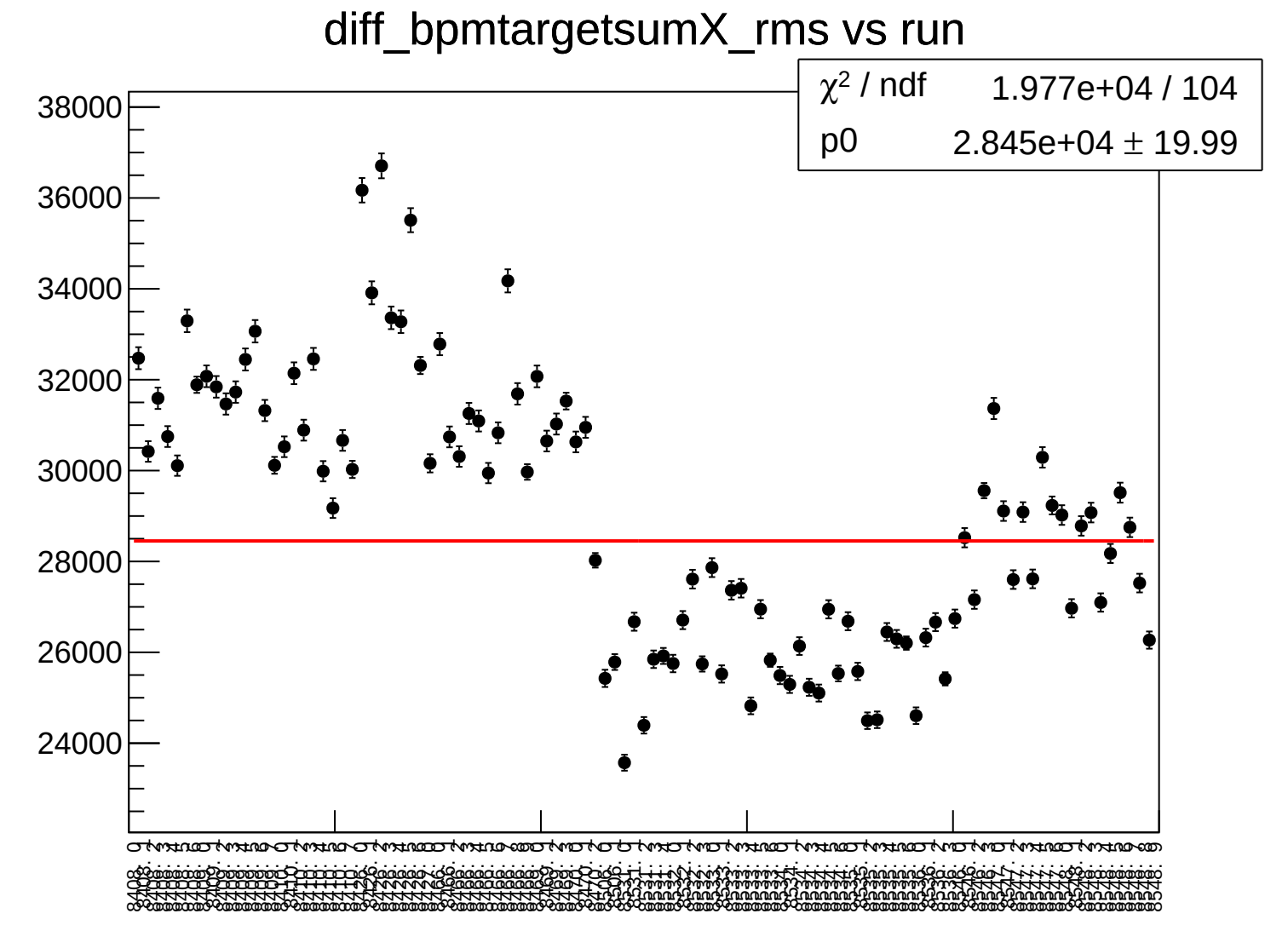

diff_bpm4aediffY_mean vs run
χ² / ndf 107.2 / 104
p0 6.783 ± 2.036
pull
Entries 105
Mean −28.63
Std Dev 0

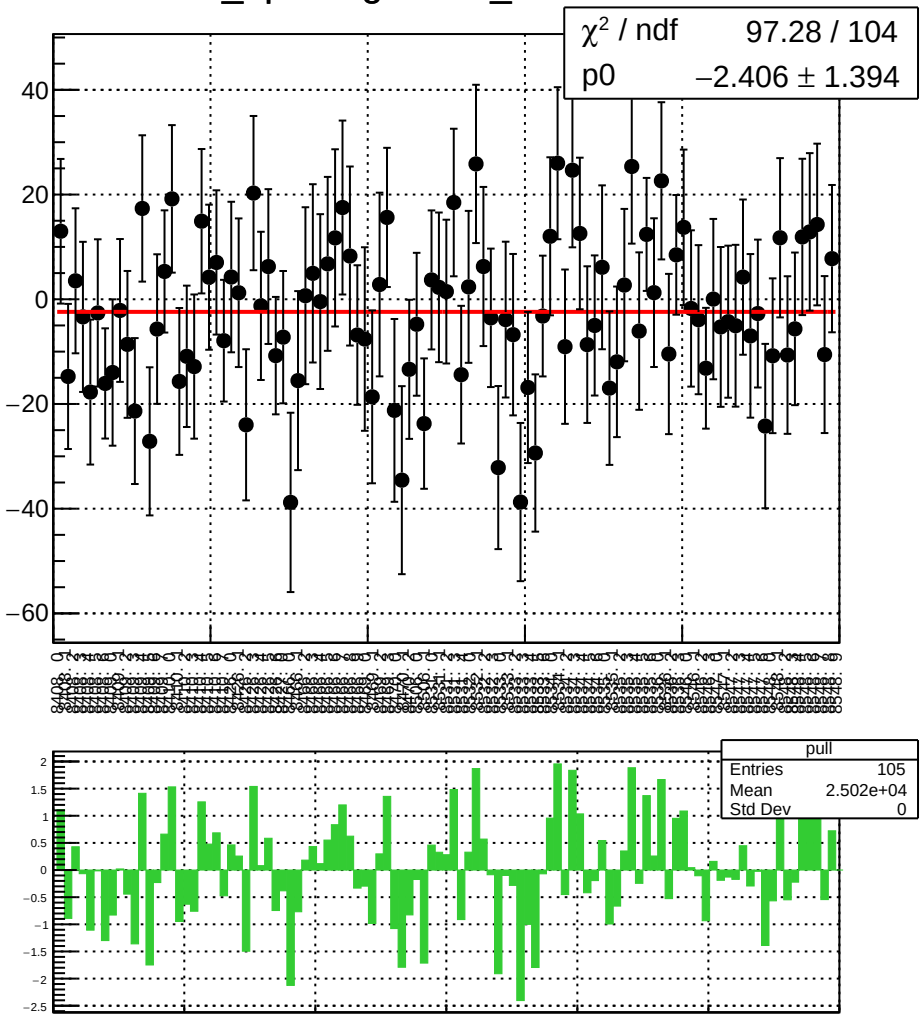

pull1D
Entries 105
Mean 0.008131
Std Dev 1.01

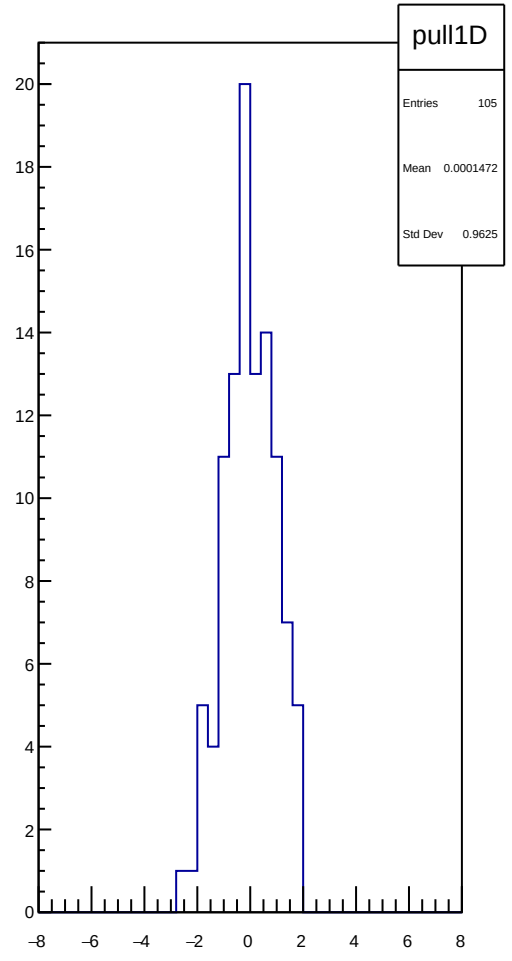

diff_bpm4aediffY_rms vs run
χ² / ndf 2869 / 104
p0 2057 ± 1.439
2250
2200
2150
2100
2050
2000
1950
1900
1850

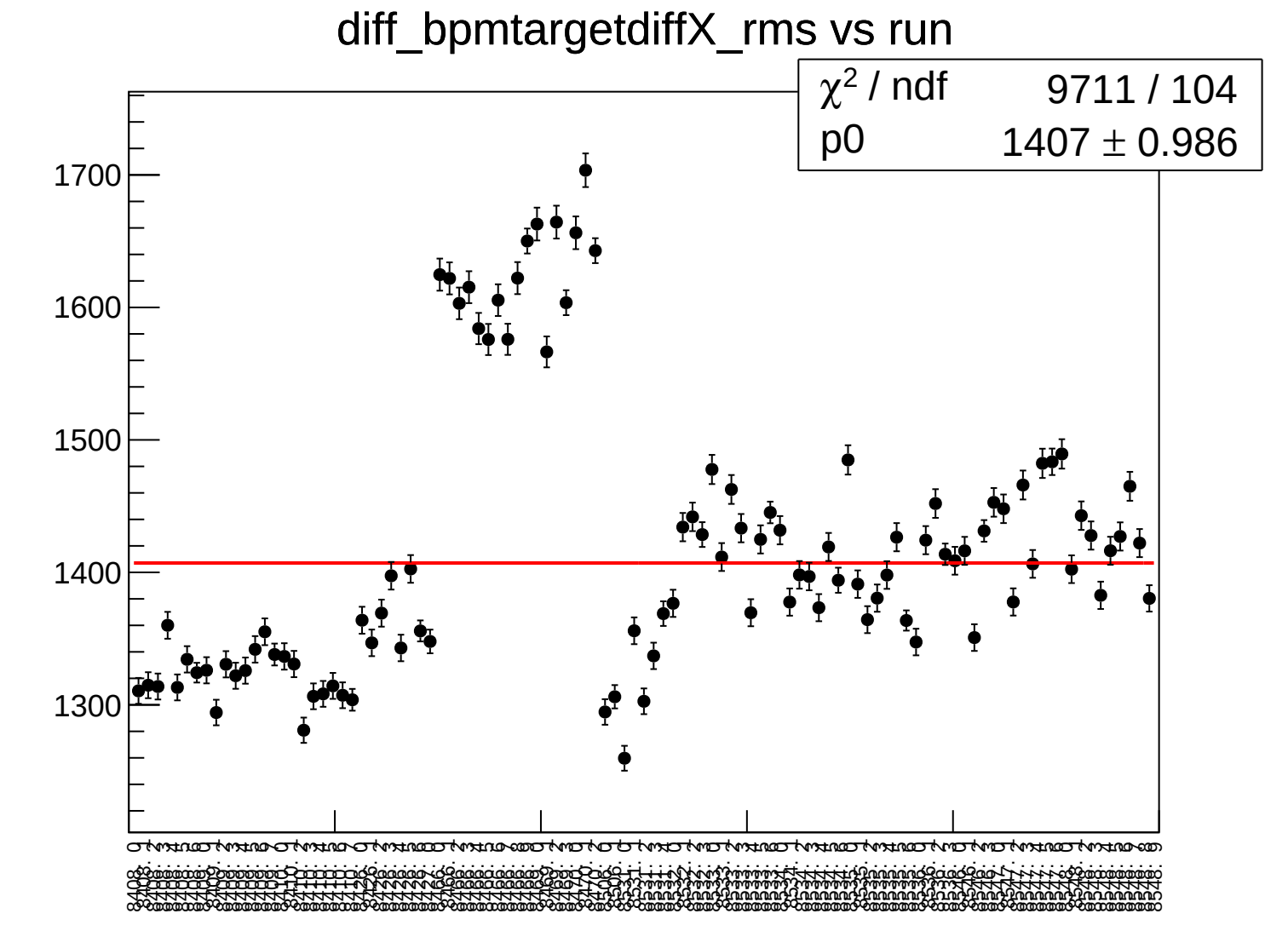

diff_bpmtargetsumX_mean vs run
χ² / ndf 111.3 / 104
p0 −96.99 ± 28.27
1000
500
0
−500
−1000
pull
Entries 105
Mean −4919
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

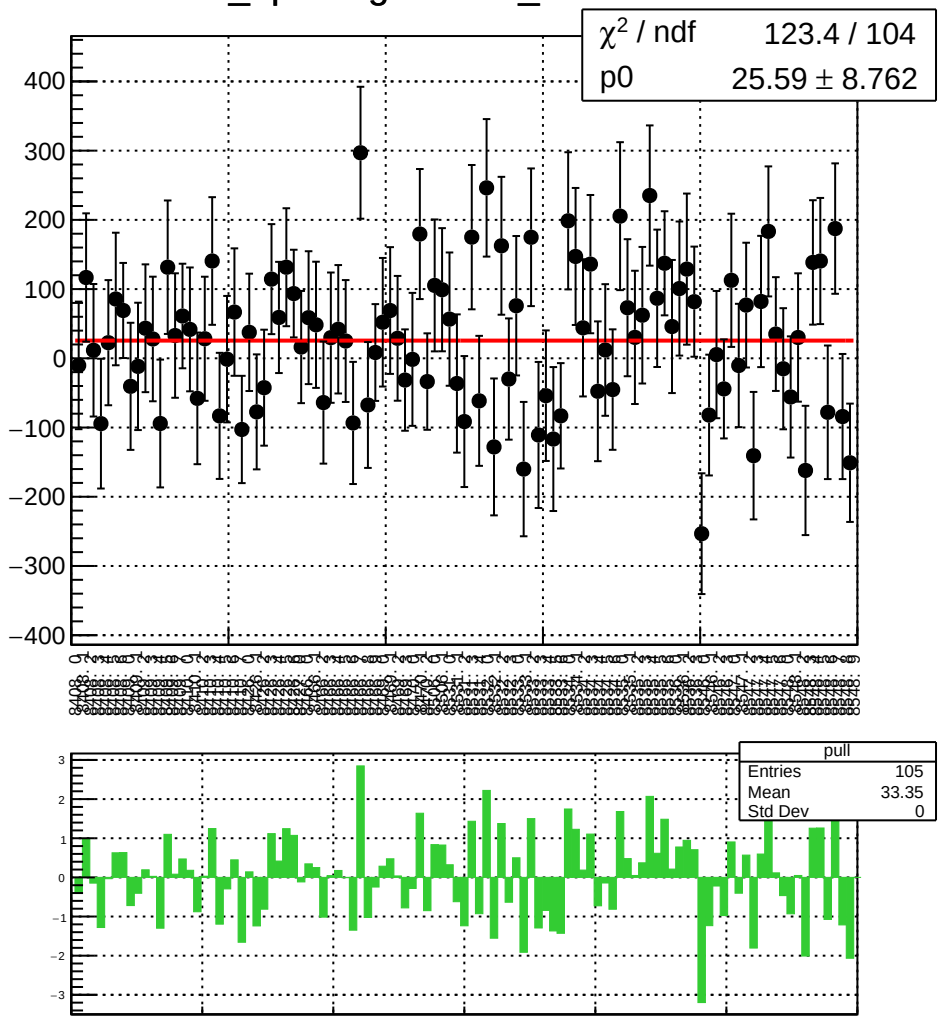

pull1D
Entries 105
Mean 0.0003695
Std Dev 1.029
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

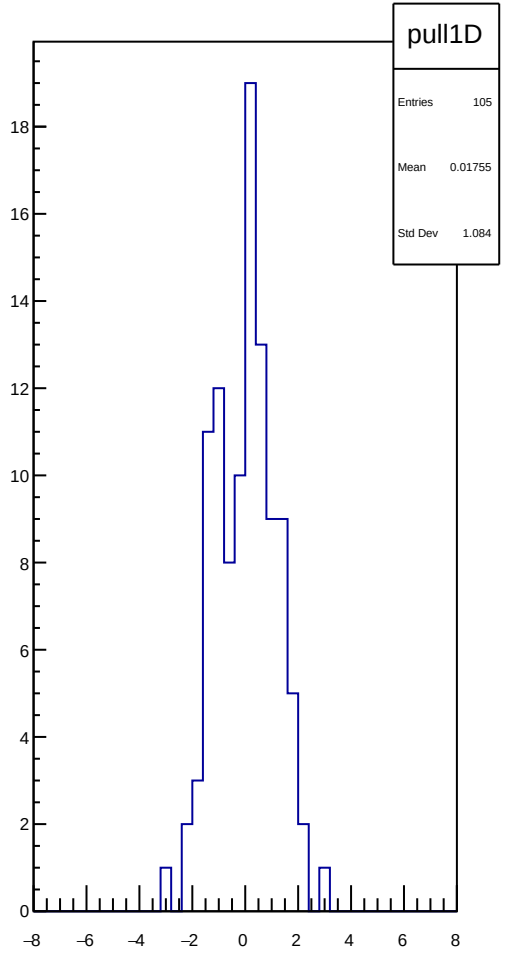

diff_bpmtargetsumX_rms vs run
χ² / ndf 1.977e+04 / 104
p0 2.845e+04 ± 19.99
38000
36000
34000
32000
30000
28000
26000
24000

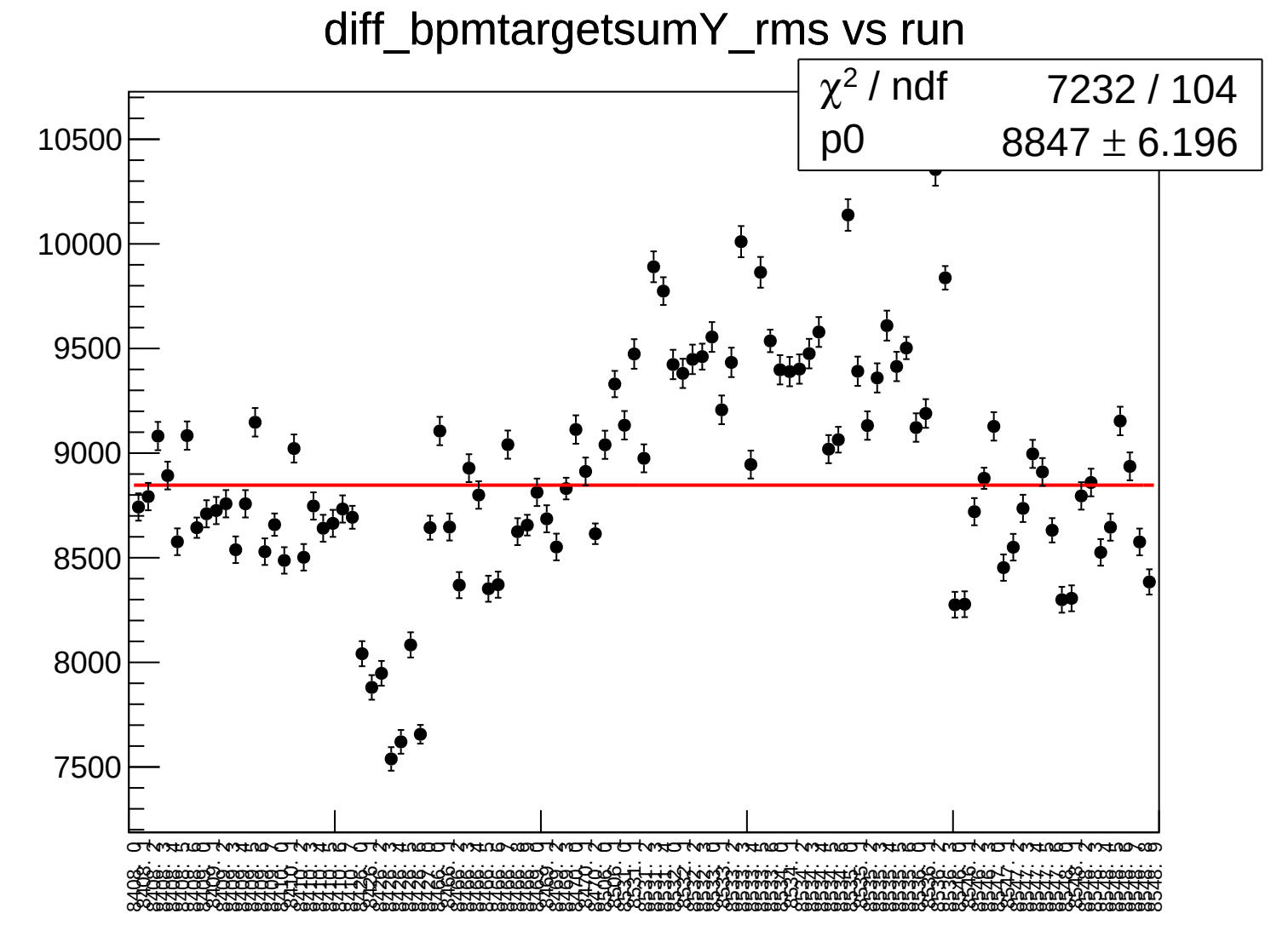

diff_bpmtargetdiffX_mean vs run
χ² / ndf 97.28 / 104
p0 −2.406 ± 1.394
pull
Entries 105
Mean 2.502e+04
Std Dev 0

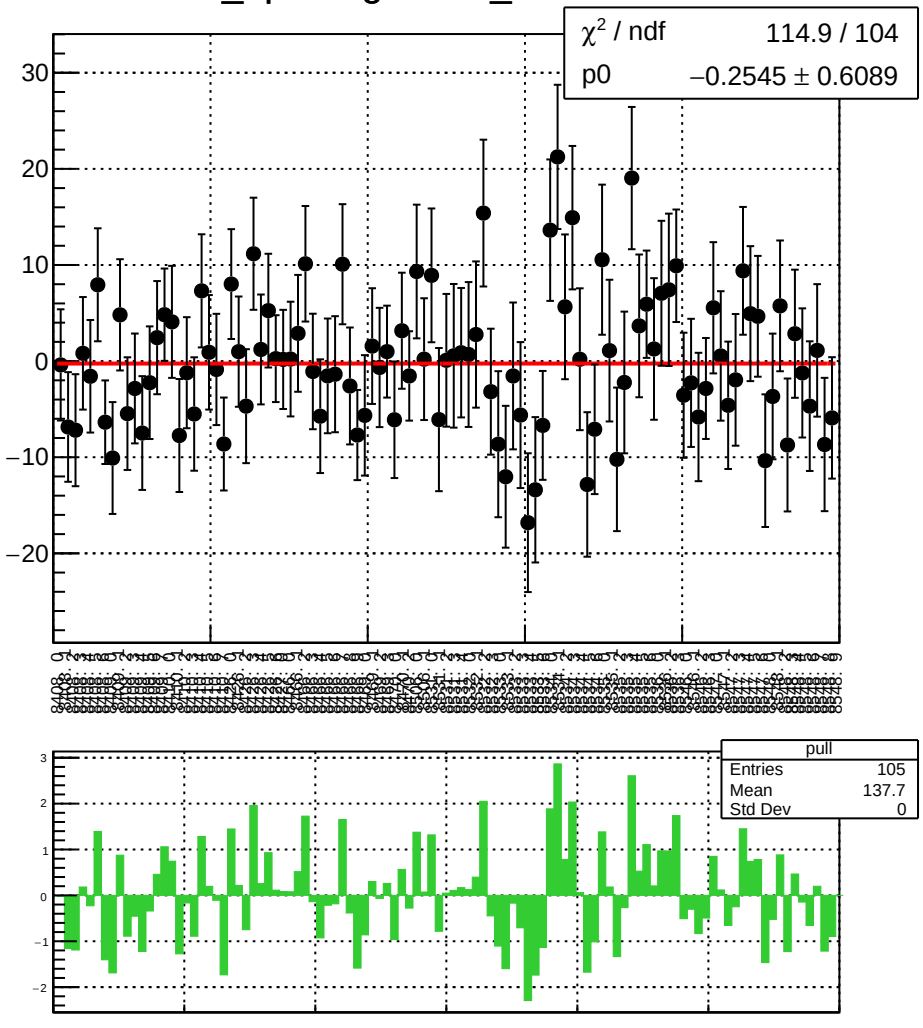

pull1D
Entries 105
Mean 0.0001472
Std Dev 0.9625

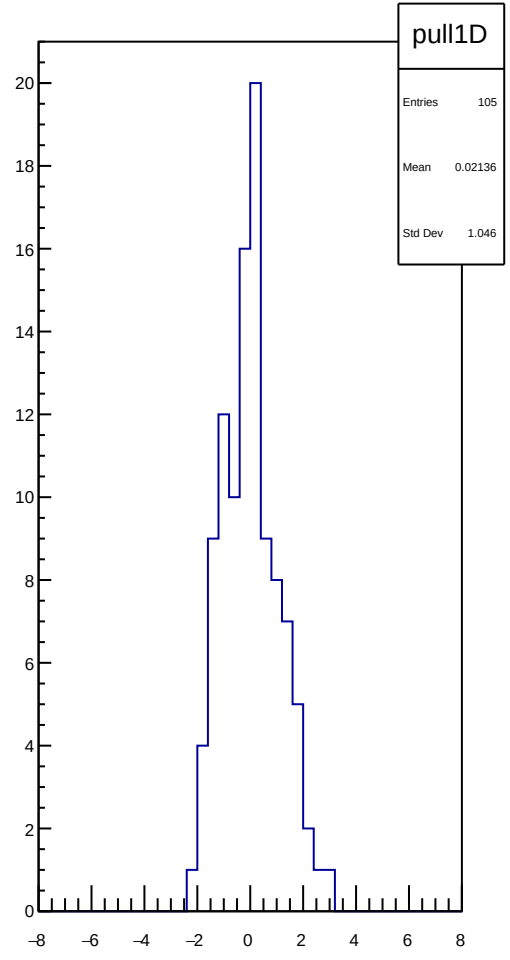

diff_bpmtargetdiffX_rms vs run
χ² / ndf 9711 / 104
p0 1407 ± 0.986
1700
1600
1500
1400
1300

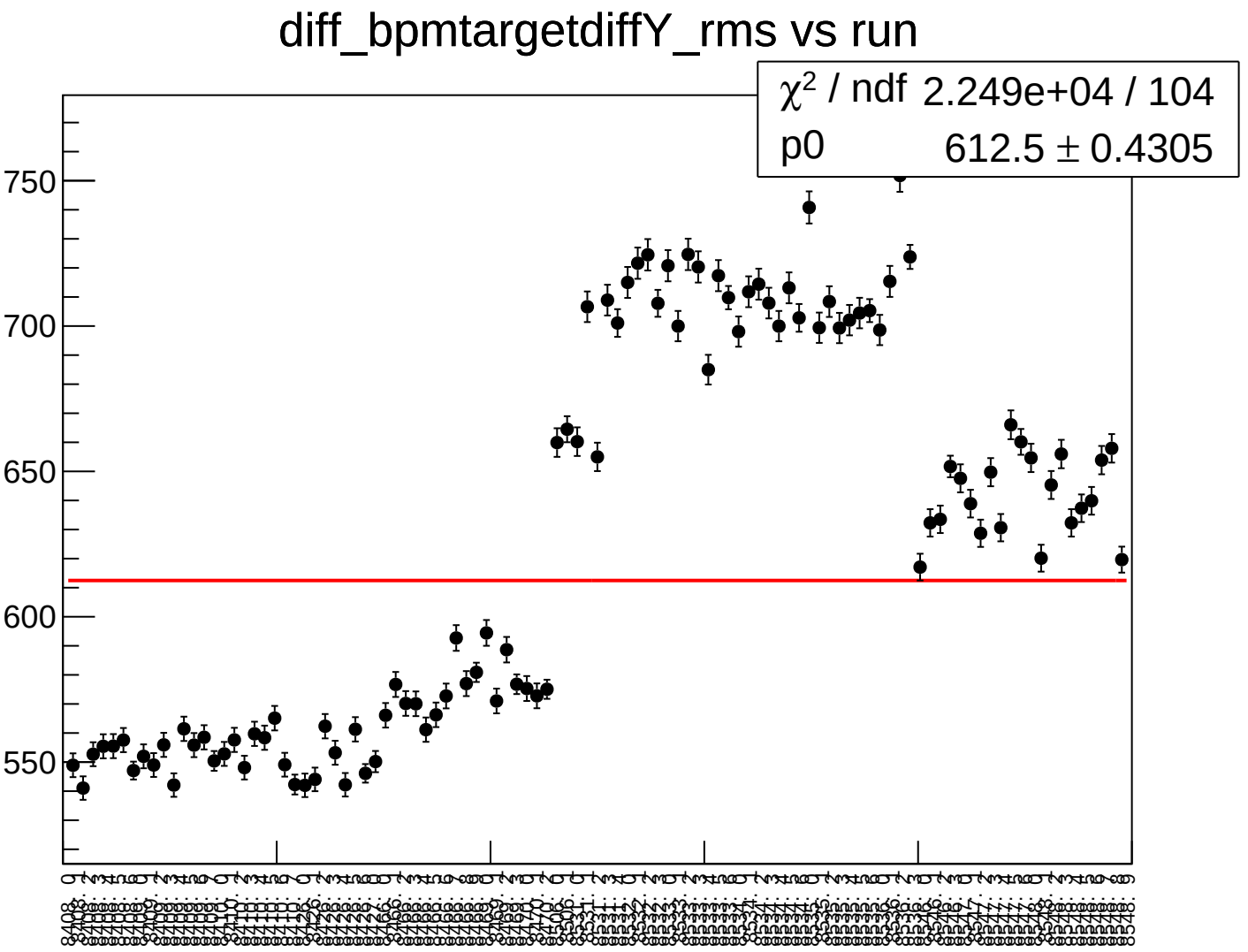

diff_bpmtargetsumY_mean vs run
χ^2 / ndf 123.4 / 104
p0 25.59 ± 8.762
pull
Entries 105
Mean 33.35
Std Dev 0

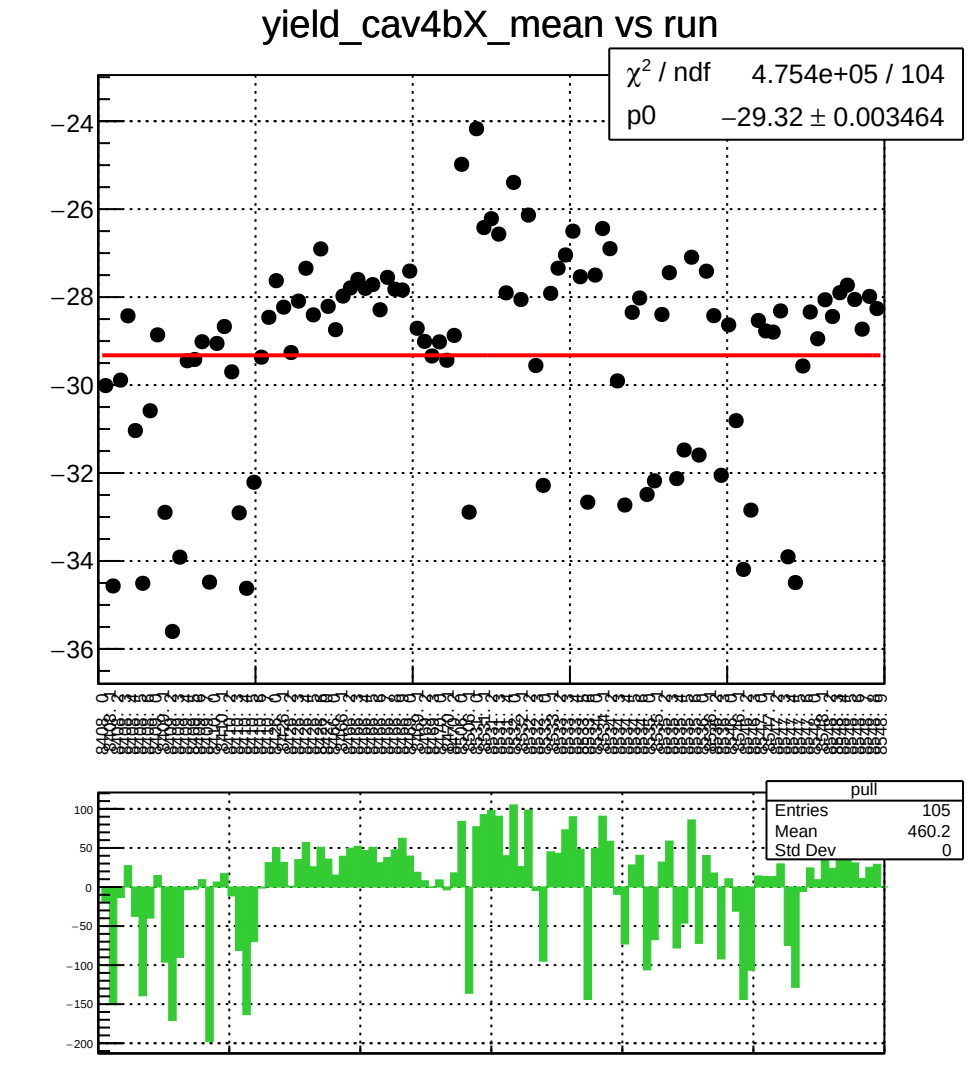

pull1D
Entries 105
Mean 0.01755
Std Dev 1.084

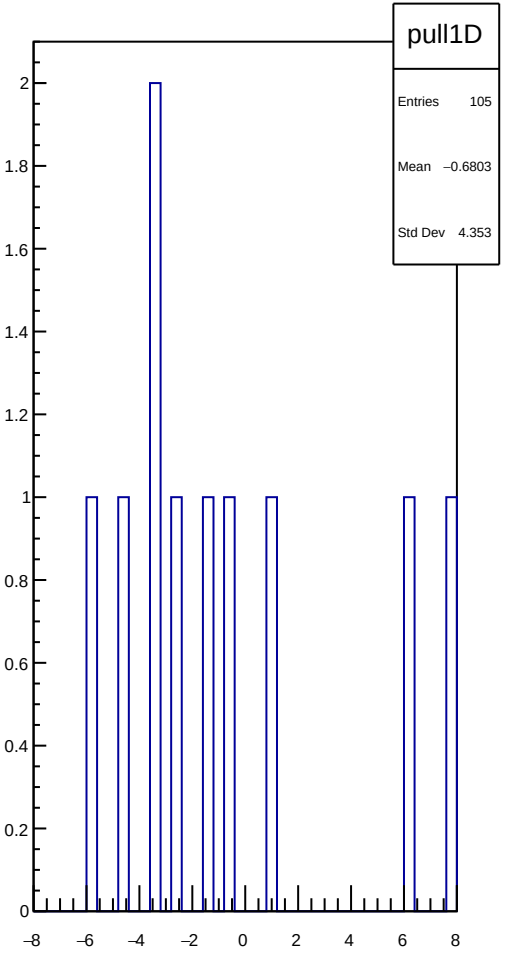

diff_bpmtargetsumY_rms vs run
χ² / ndf 7232 / 104
p0 8847 ± 6.196
10500
10000
9500
9000
8500
8000
7500

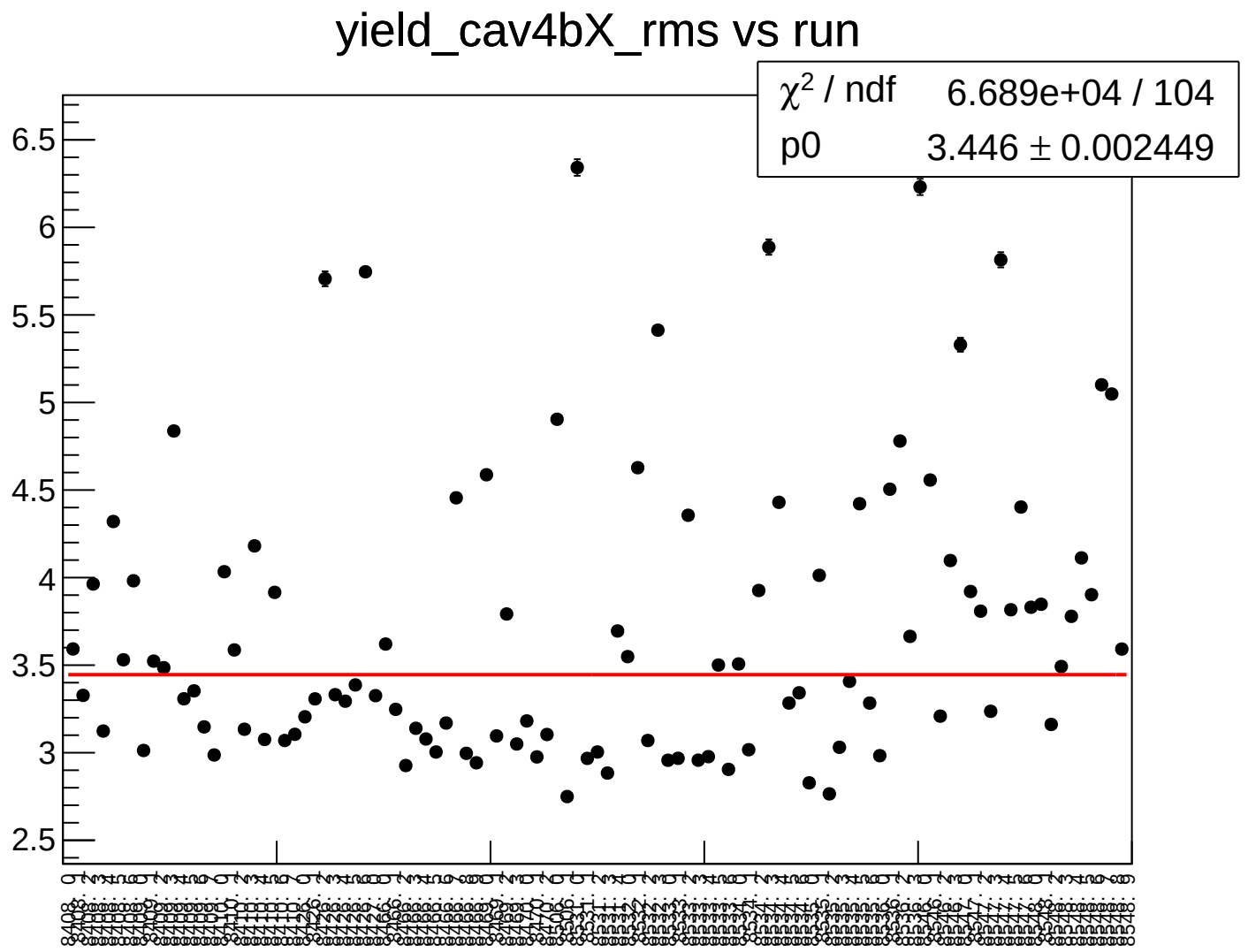

diff_bpmtargetdiffY_mean vs run
χ² / ndf 114.9 / 104
p0 −0.2545 ± 0.6089
pull
Entries 105
Mean 137.7
Std Dev 0

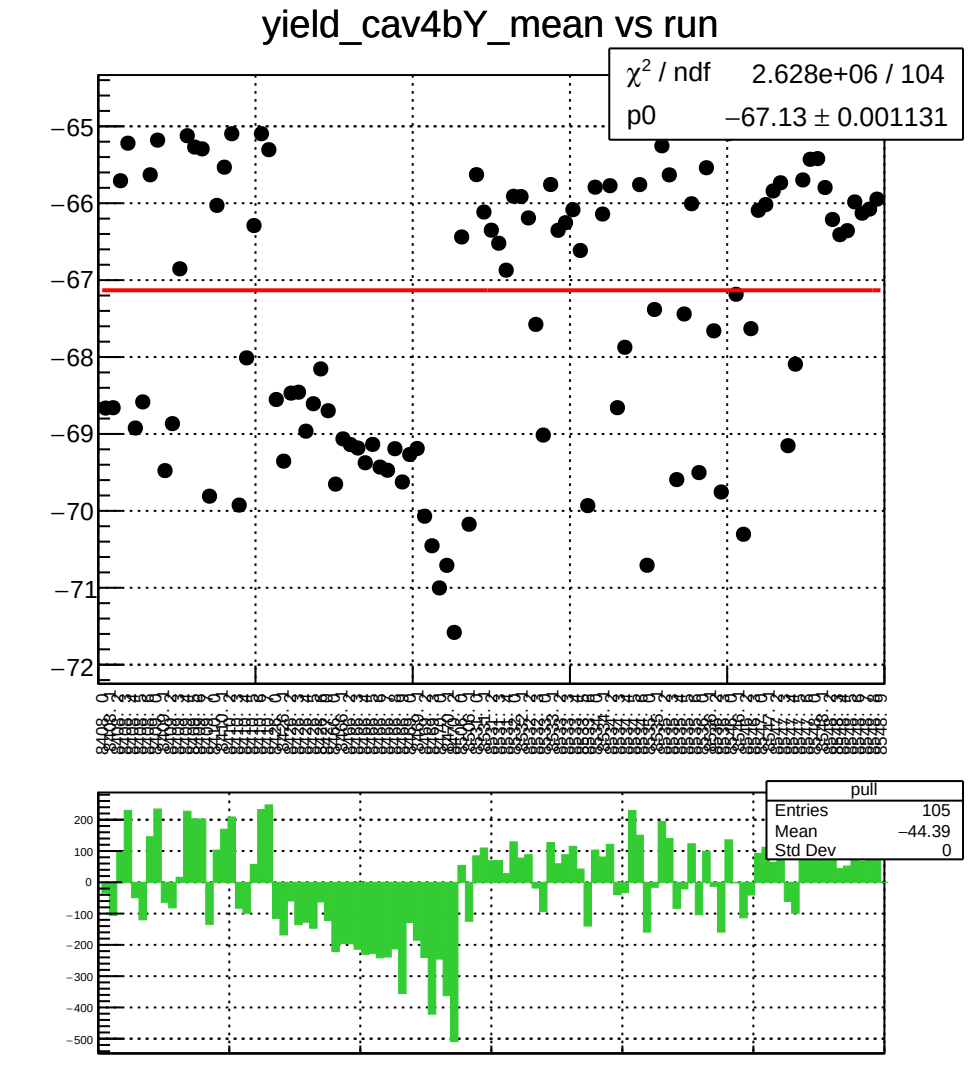

pull1D
Entries 105
Mean 0.02136
Std Dev 1.046

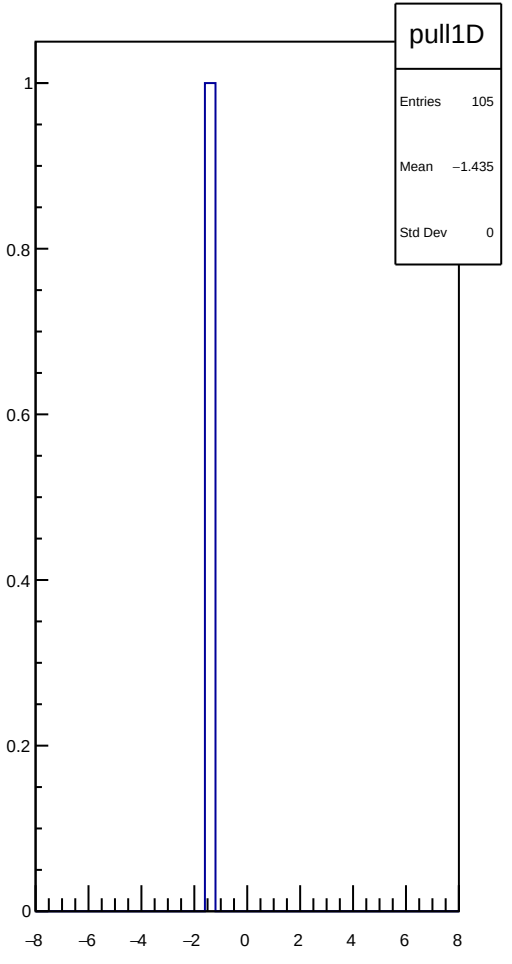

diff_bpmtargetdiffY_rms vs run
χ² / ndf 2.249e+04 / 104
p0 612.5 ± 0.4305
750
700
650
600
550

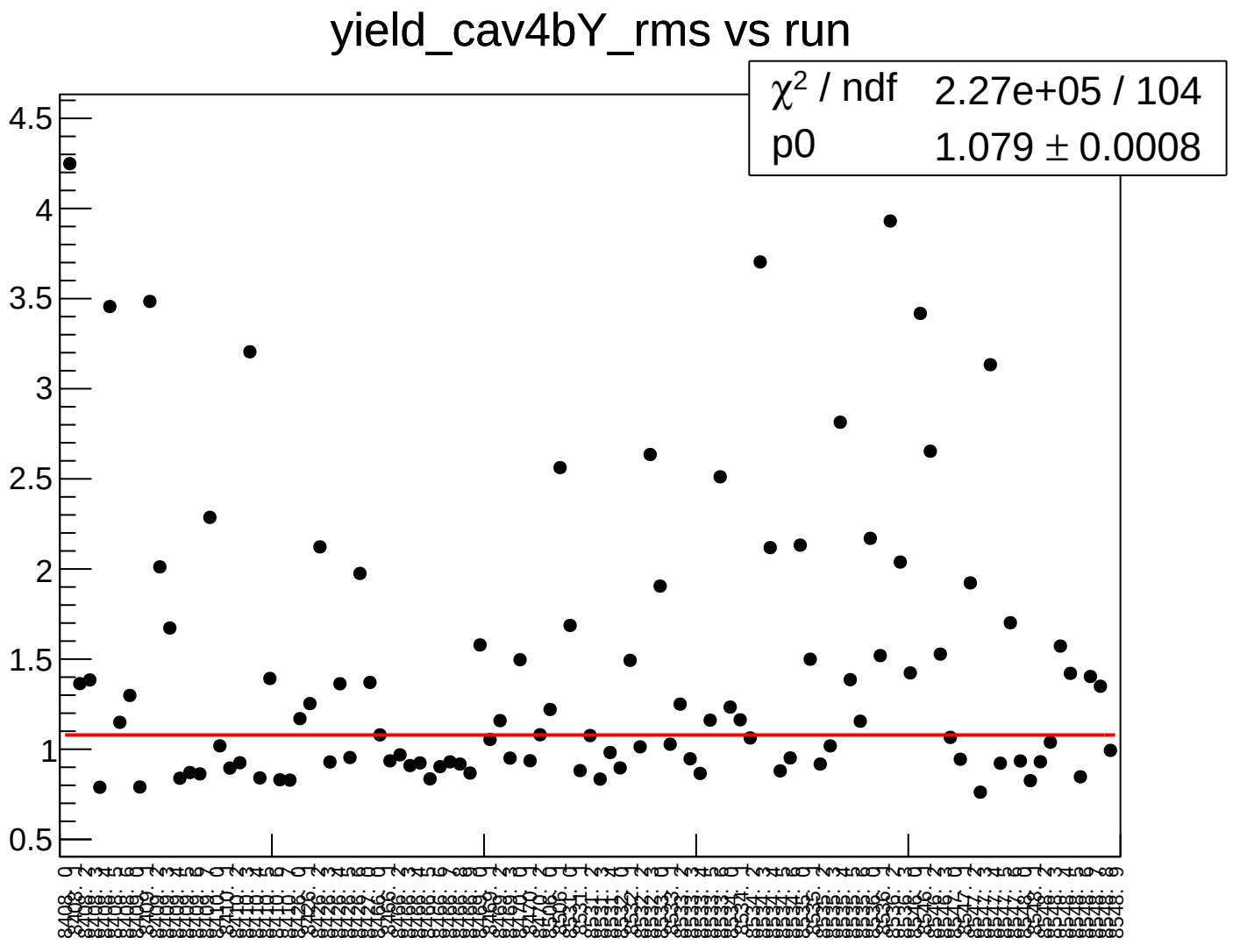

yield_cav4bX_mean vs run
χ² / ndf 4.754e+05 / 104
p0 −29.32 ± 0.003464
−24
−26
−28
−30
−32
−34
−36
pull
Entries 105
Mean 460.2
Std Dev 0
100
50
0
−50
−100
−150
−200

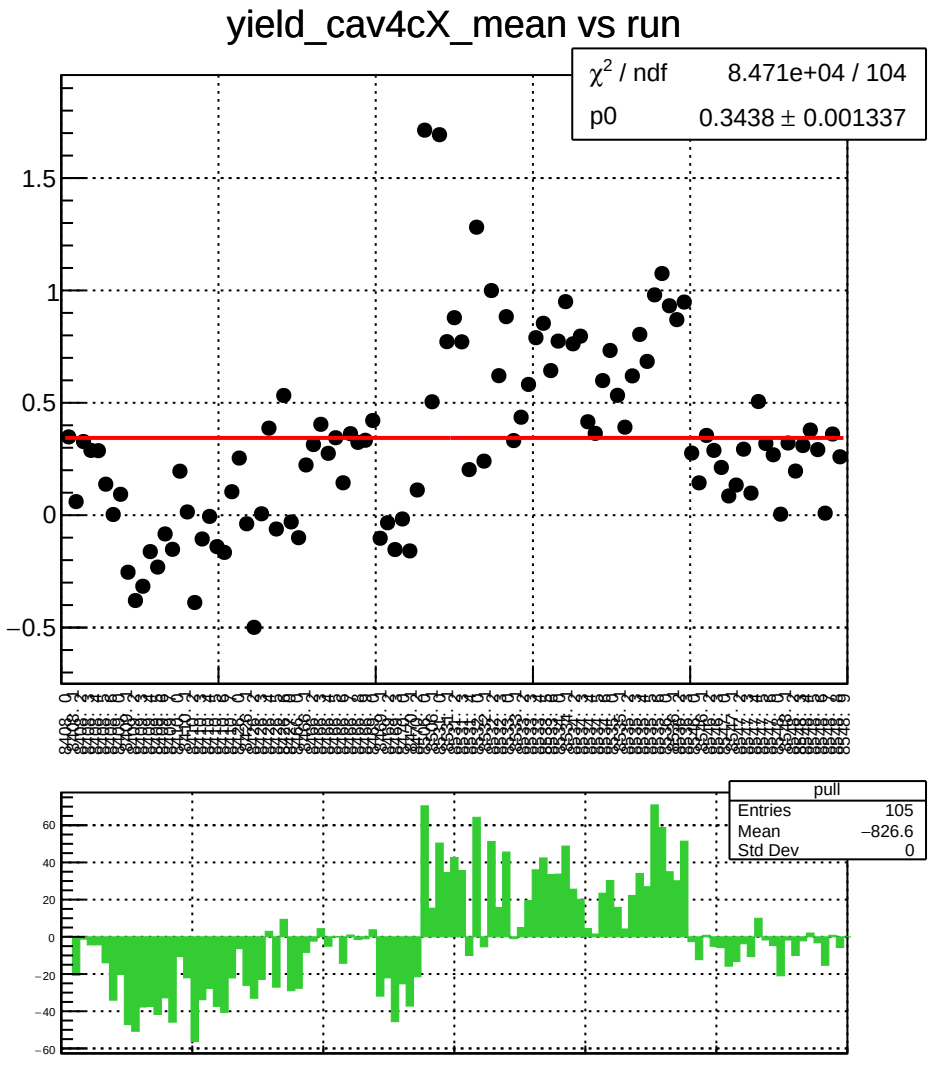

pull1D
Entries 105
Mean −0.6803
Std Dev 4.353
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

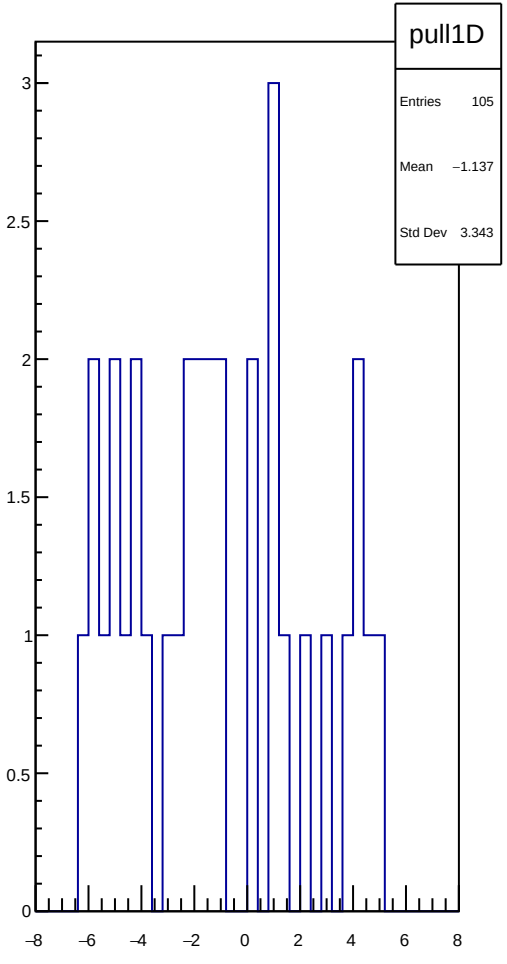

yield_cav4bX_rms vs run
χ² / ndf 6.689e+04 / 104
p0 3.446 ± 0.002449
6.5
6
5.5
5
4.5
4
3.5
3
2.5

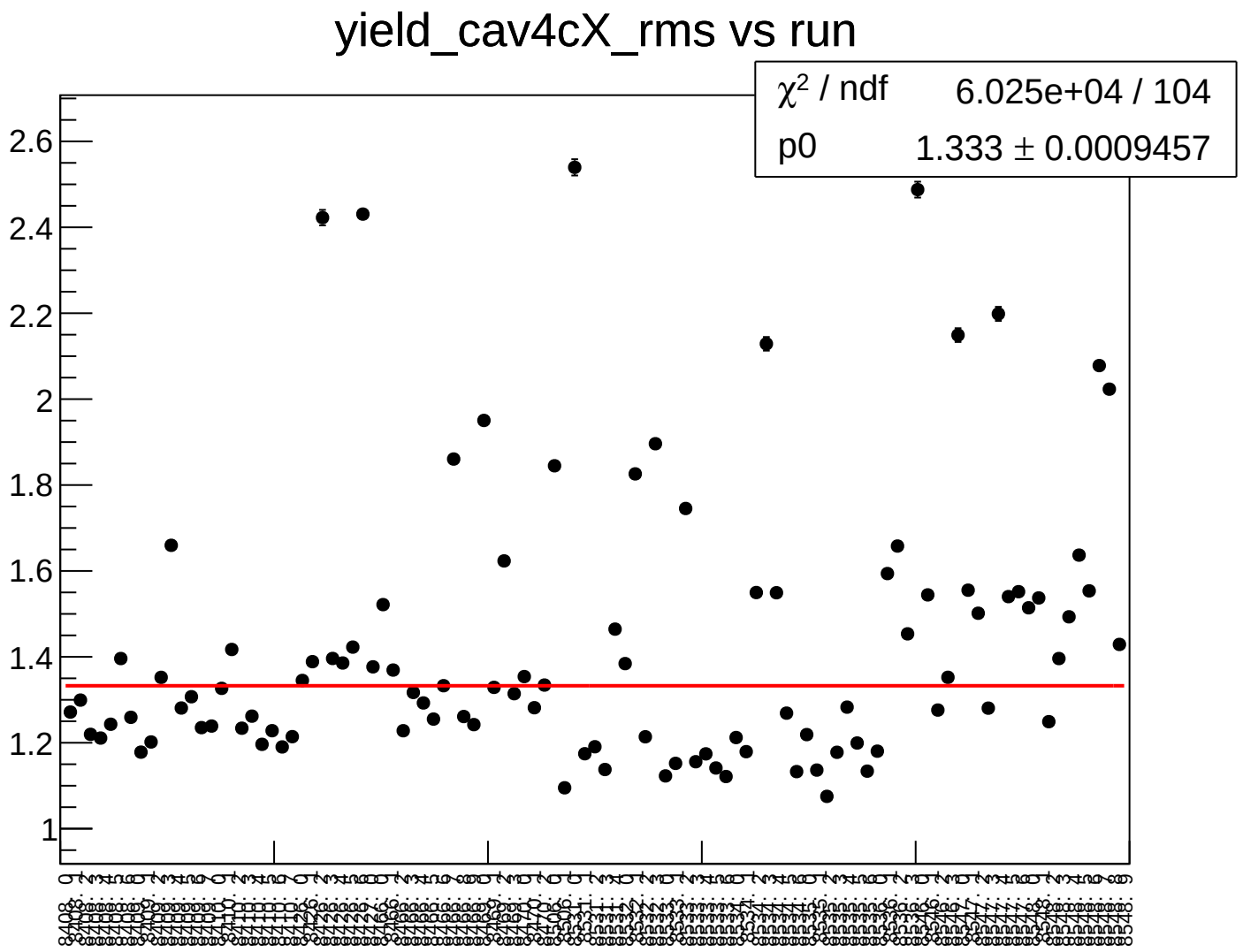

yield_cav4bY_mean vs run
χ² / ndf 2.628e+06 / 104
p0 −67.13 ± 0.001131
−65
−66
−67
−68
−69
−70
−71
−72
pull
Entries 105
Mean −44.39
Std Dev 0
200
100
0
−100
−200
−300
−400
−500

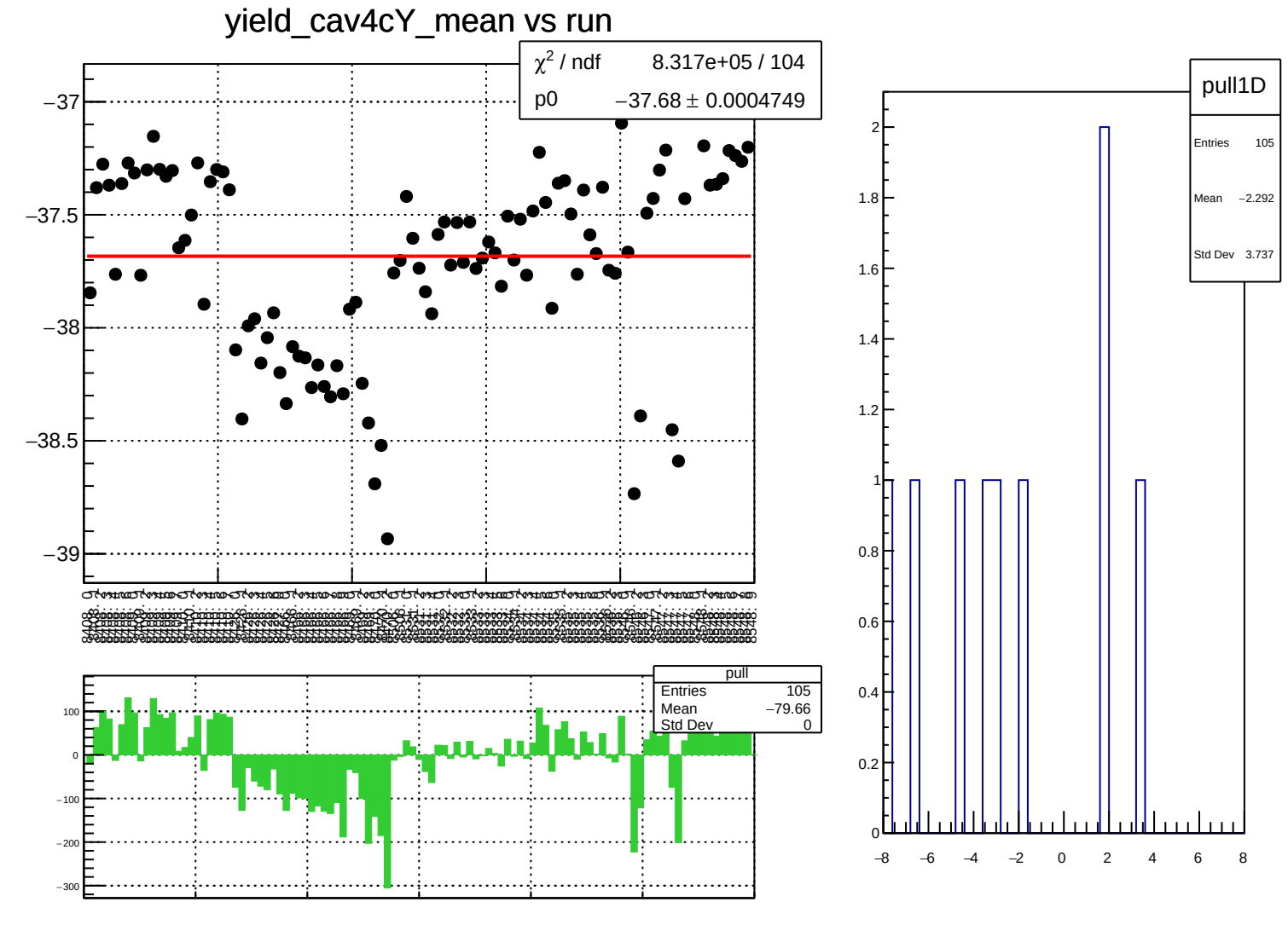

pull1D
Entries 105
Mean −1.435
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

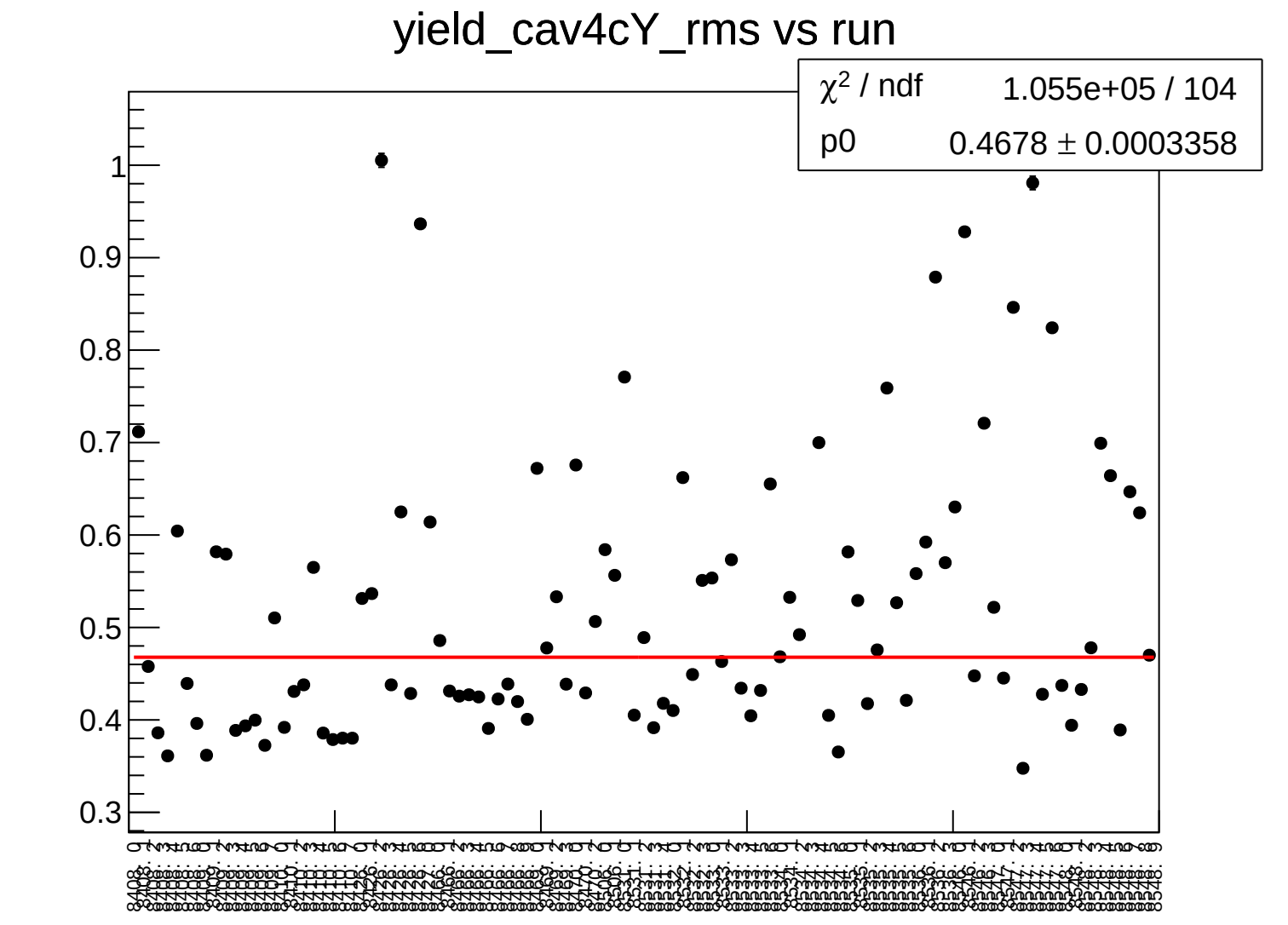

yield_cav4bY_rms vs run
χ^2 / ndf 2.27e+05 / 104
p0 1.079 ± 0.0008
4.5
4
3.5
3
2.5
2
1.5
1
0.5

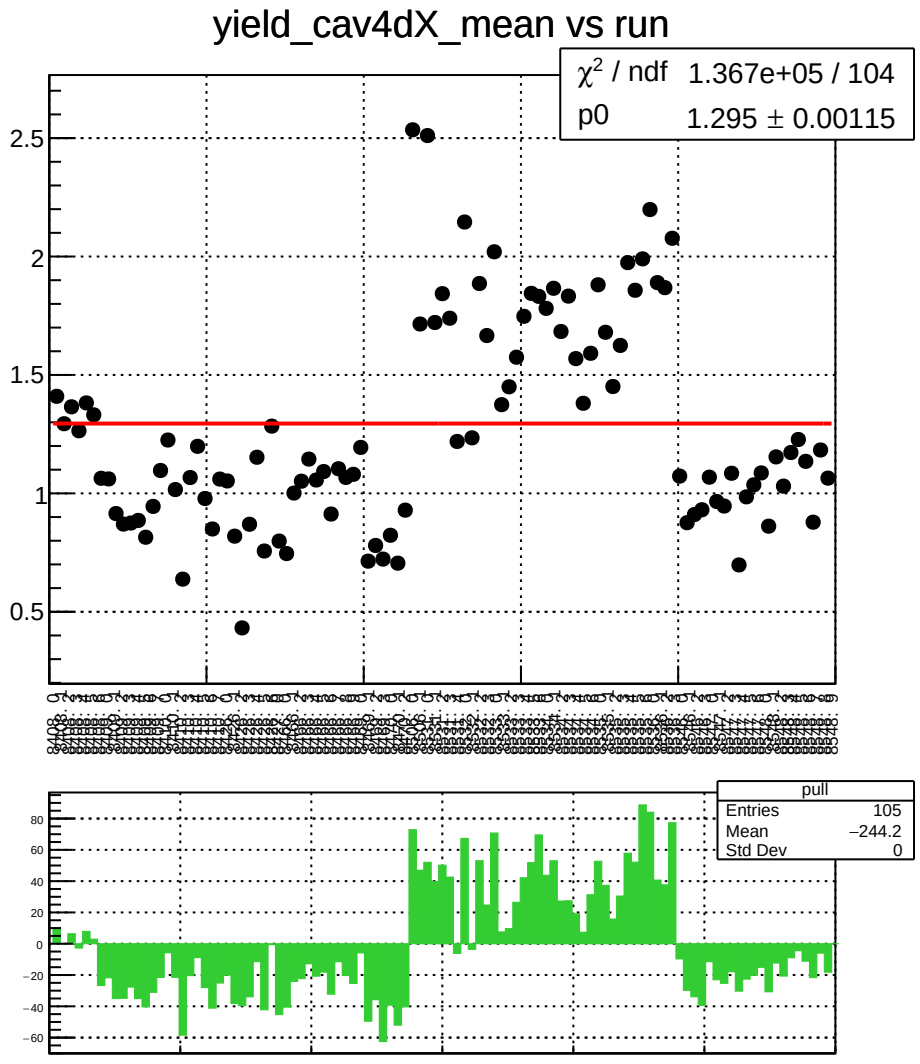

yield_cav4cX_mean vs run
χ² / ndf 8.471e+04 / 104
p0 0.3438 ± 0.001337
pull
Entries 105
Mean −826.6
Std Dev 0

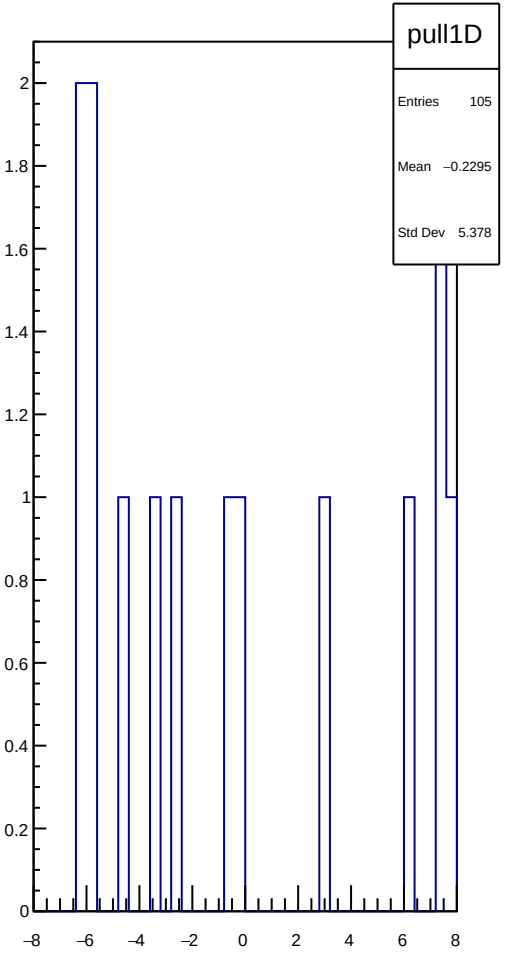

pull1D
Entries 105
Mean −1.137
Std Dev 3.343

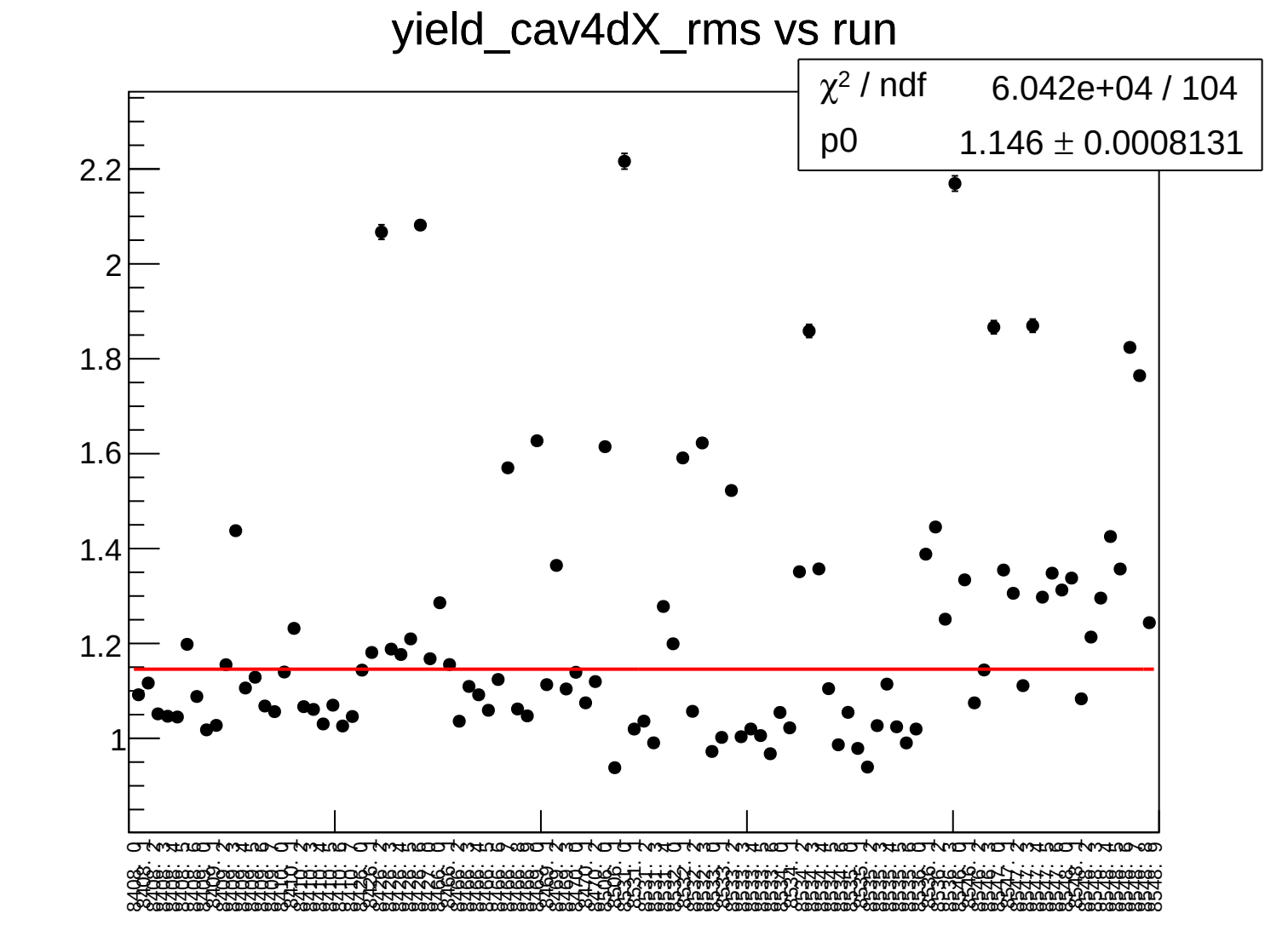

yield_cav4cX_rms vs run
χ² / ndf 6.025e+04 / 104
p0 1.333 ± 0.0009457
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
1

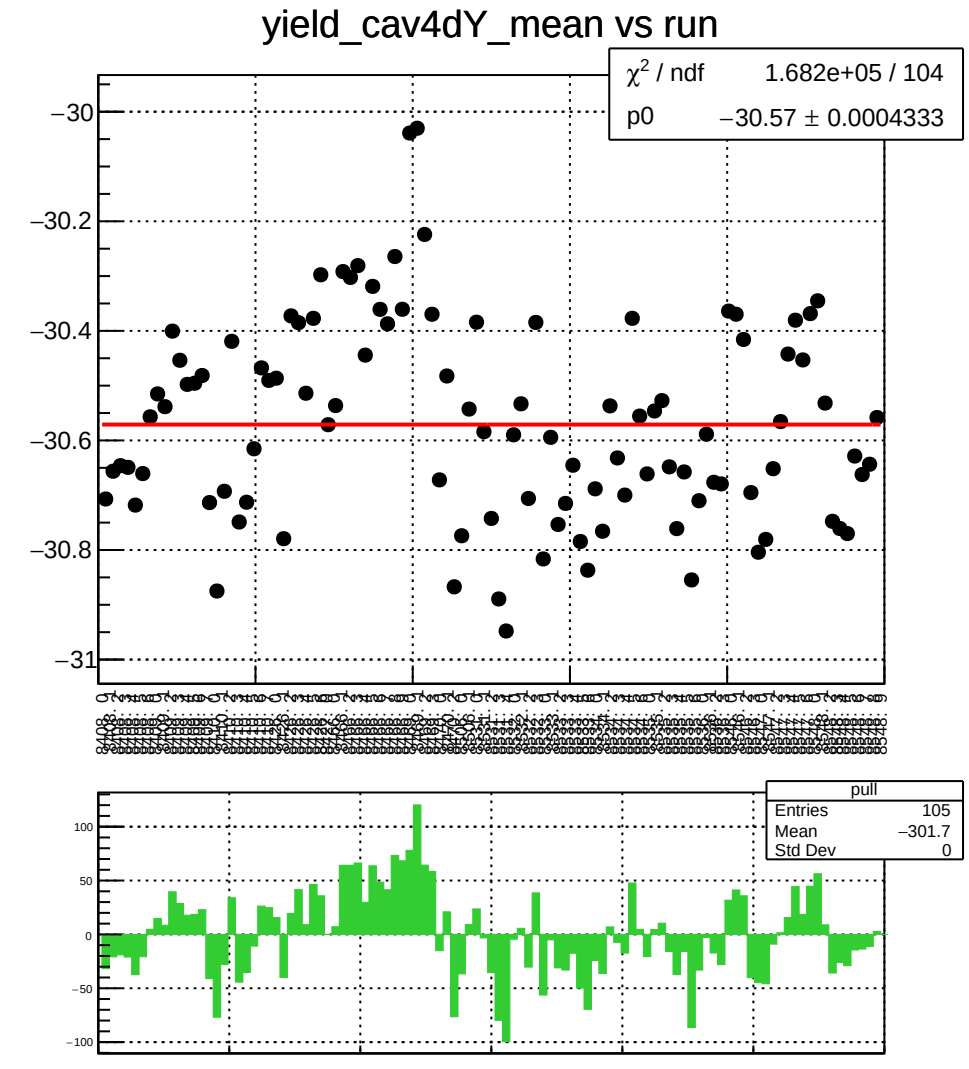

yield_cav4cY_mean vs run
χ² / ndf 8.317e+05 / 104
p0 −37.68 ± 0.0004749
−37
−37.5
−38
−38.5
−39
pull
Entries 105
Mean −79.66
Std Dev 0
100
0
−100
−200
−300
pull1D
Entries 105
Mean −2.292
Std Dev 3.737
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

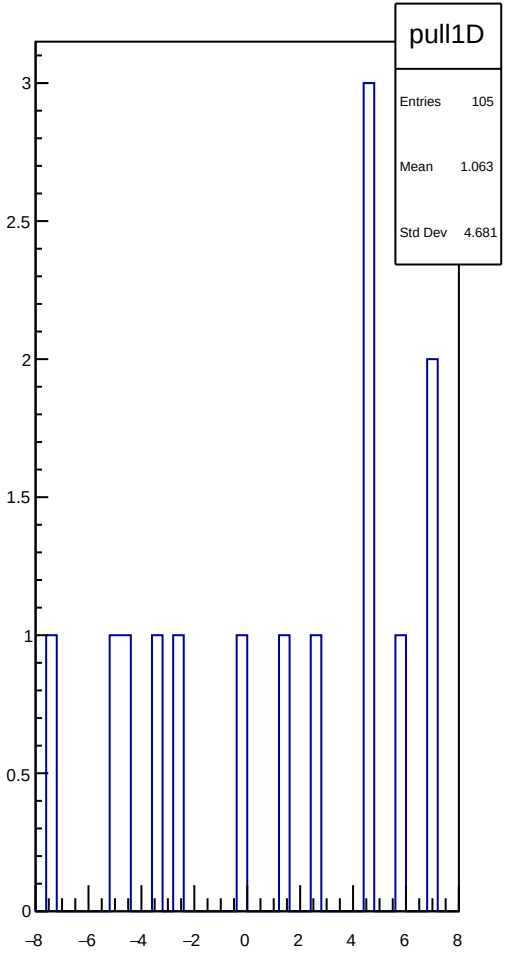

yield_cav4cY_rms vs run
χ² / ndf 1.055e+05 / 104
p0 0.4678 ± 0.0003358
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3

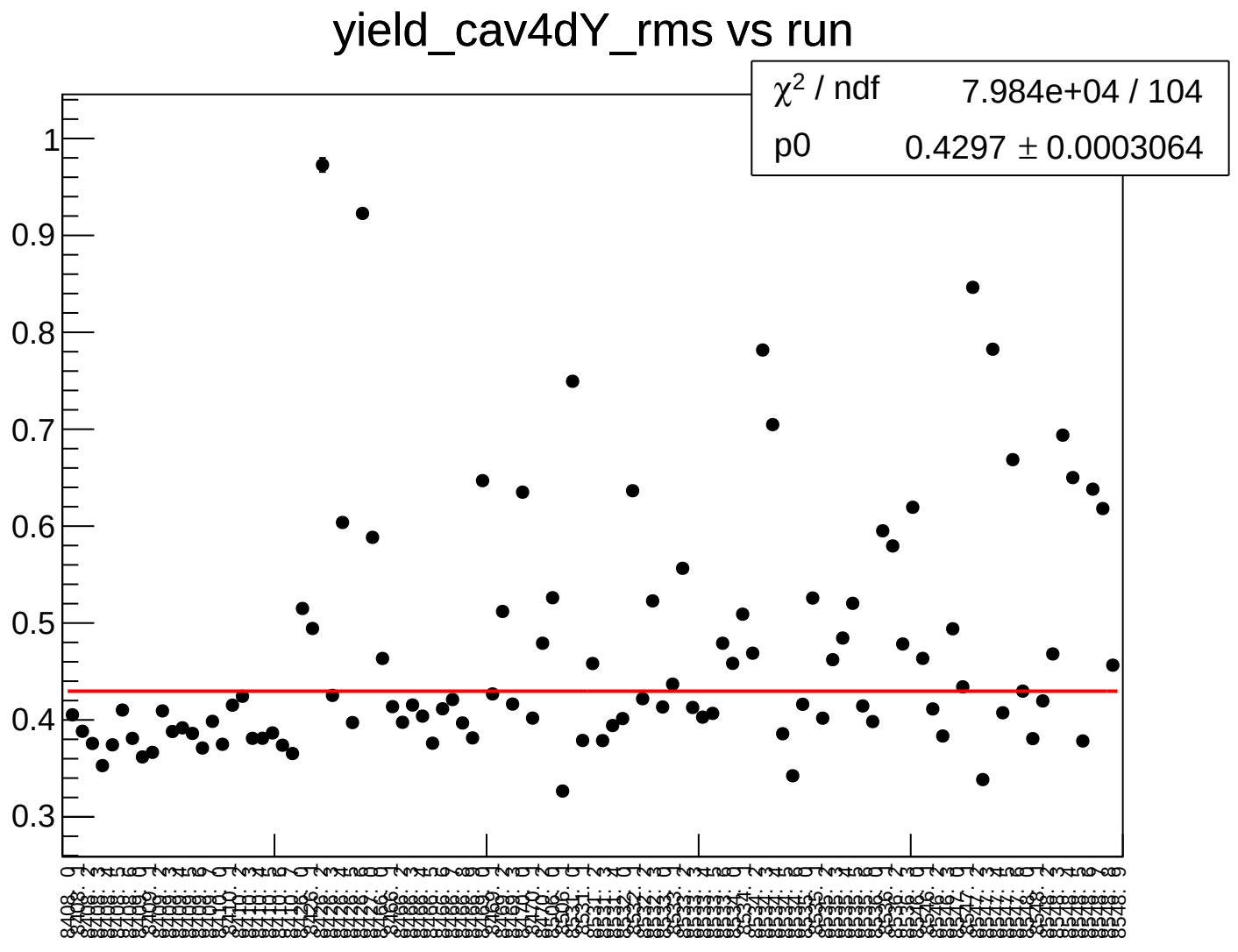

yield_cav4dX_mean vs run
χ² / ndf 1.367e+05 / 104
p0 1.295 ± 0.00115
2.5
2
1.5
1
0.5
pull
Entries 105
Mean −244.2
Std Dev 0
80
60
40
20
0
−20
−40
−60

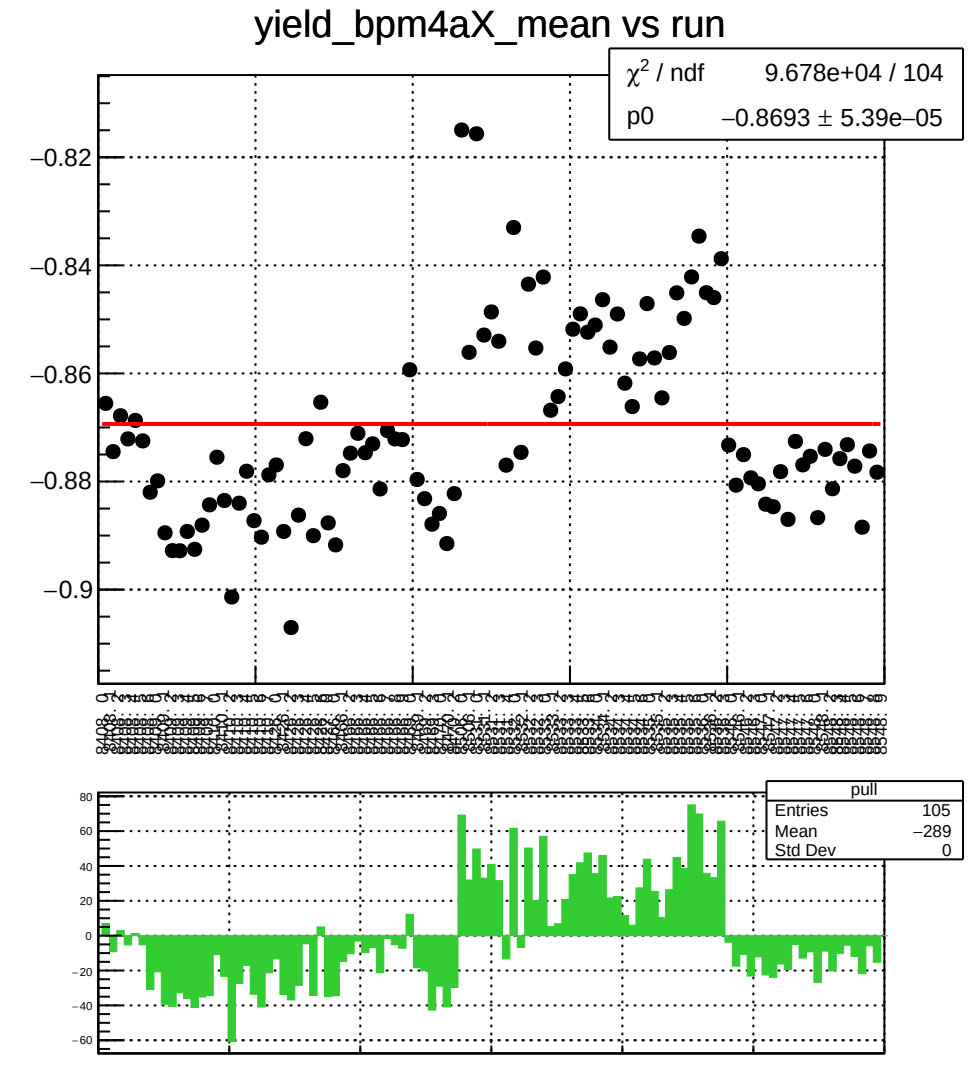

pull1D
Entries 105
Mean −0.2295
Std Dev 5.378
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

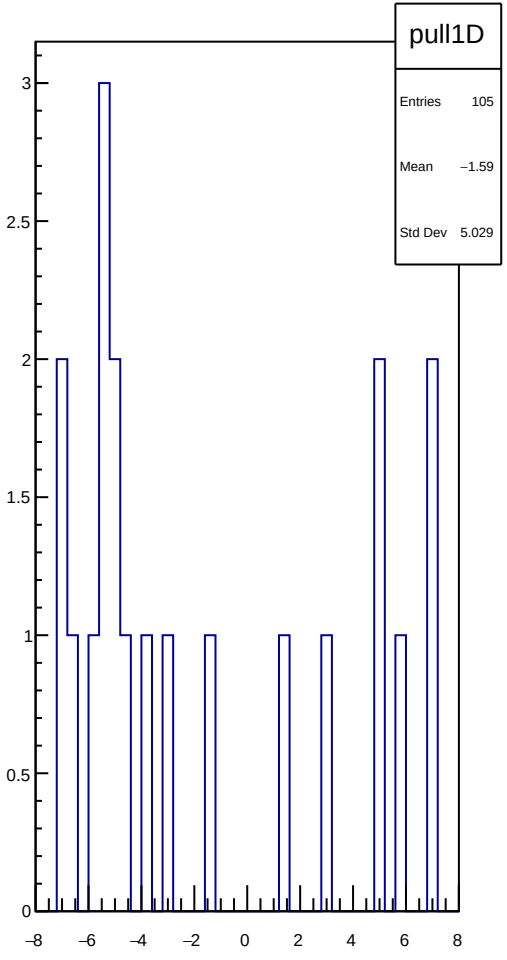

yield_cav4dX_rms vs run
χ² / ndf 6.042e+04 / 104
p0 1.146 ± 0.0008131
2.2
2
1.8
1.6
1.4
1.2
1

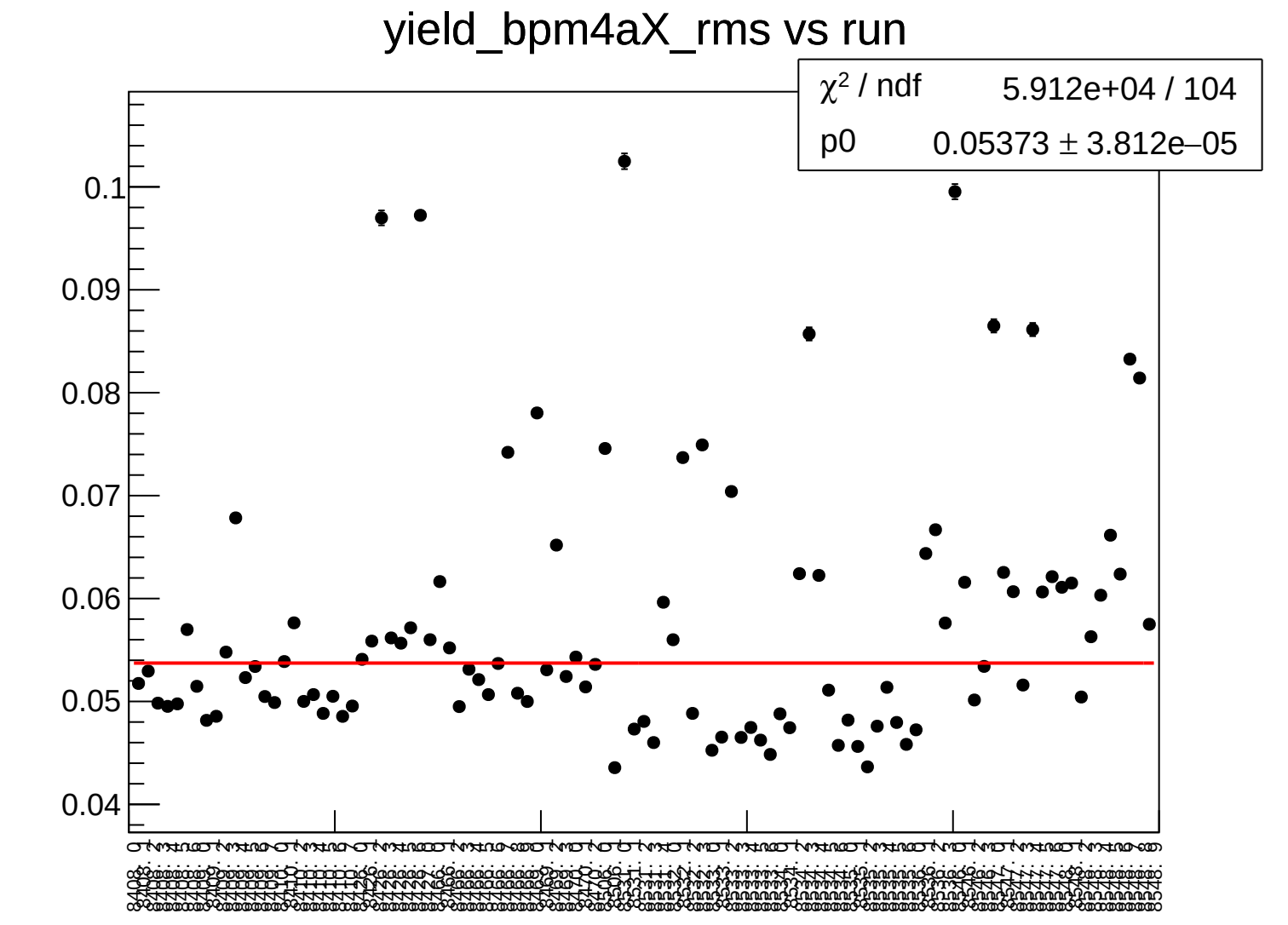

yield_cav4dY_mean vs run
χ² / ndf 1.682e+05 / 104
p0 −30.57 ± 0.0004333
−30
−30.2
−30.4
−30.6
−30.8
−31
pull
Entries 105
Mean −301.7
Std Dev 0
100
50
0
−50
−100

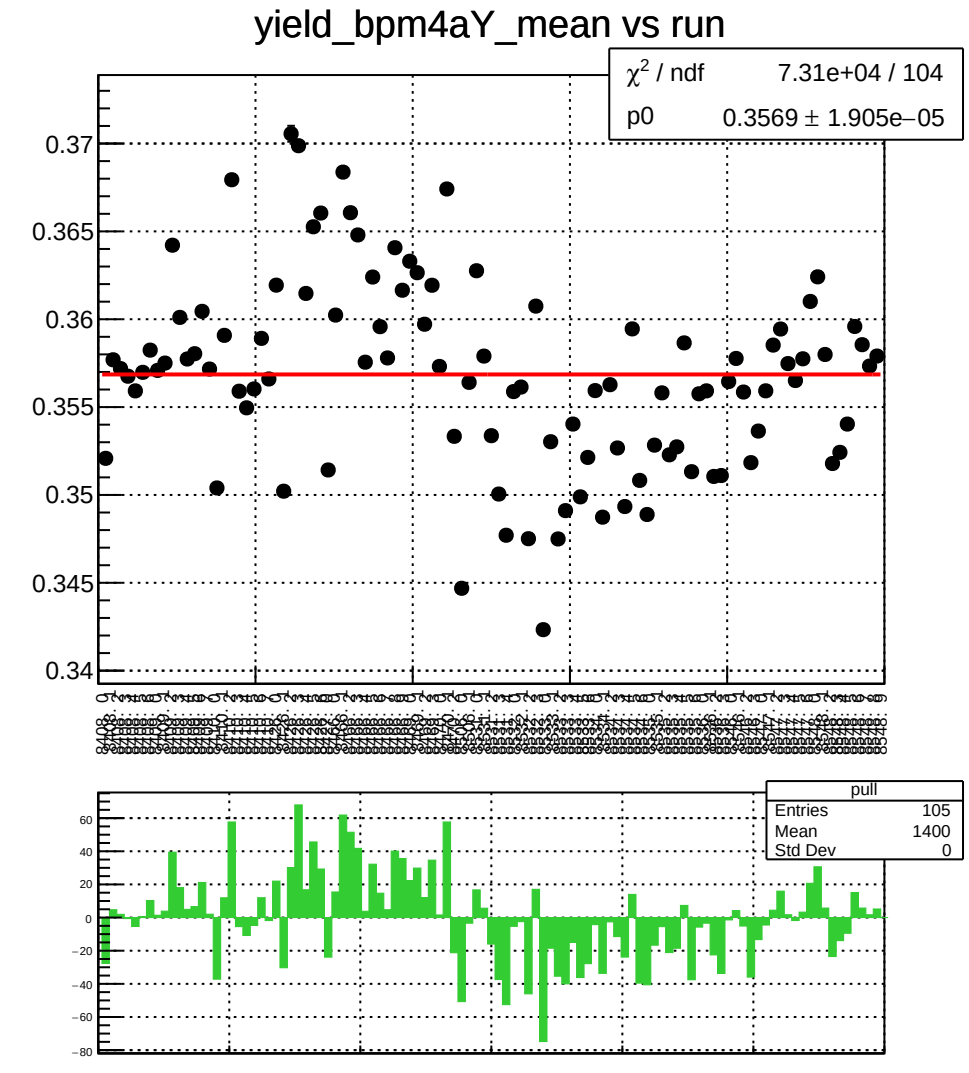

pull1D
Entries 105
Mean 1.063
Std Dev 4.681
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

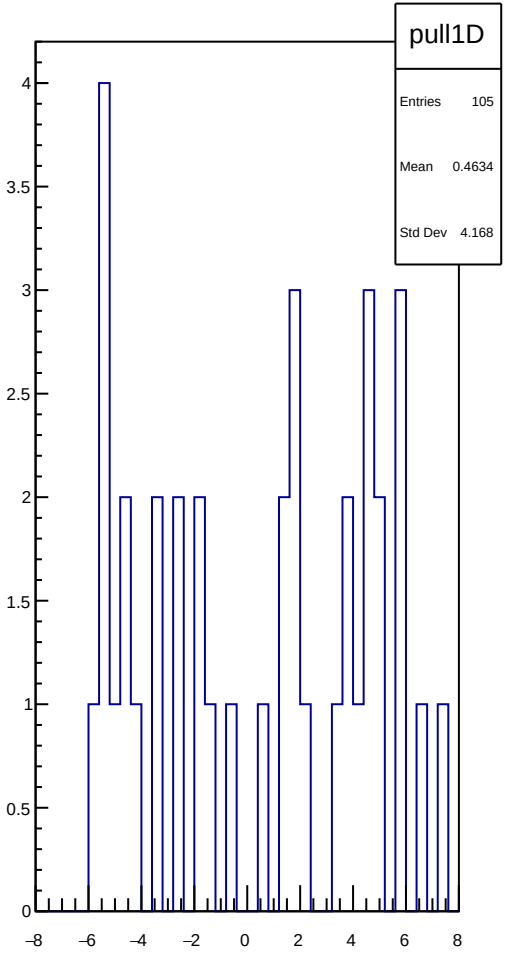

yield_cav4dY_rms vs run
χ² / ndf 7.984e+04 / 104
p0 0.4297 ± 0.0003064
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3

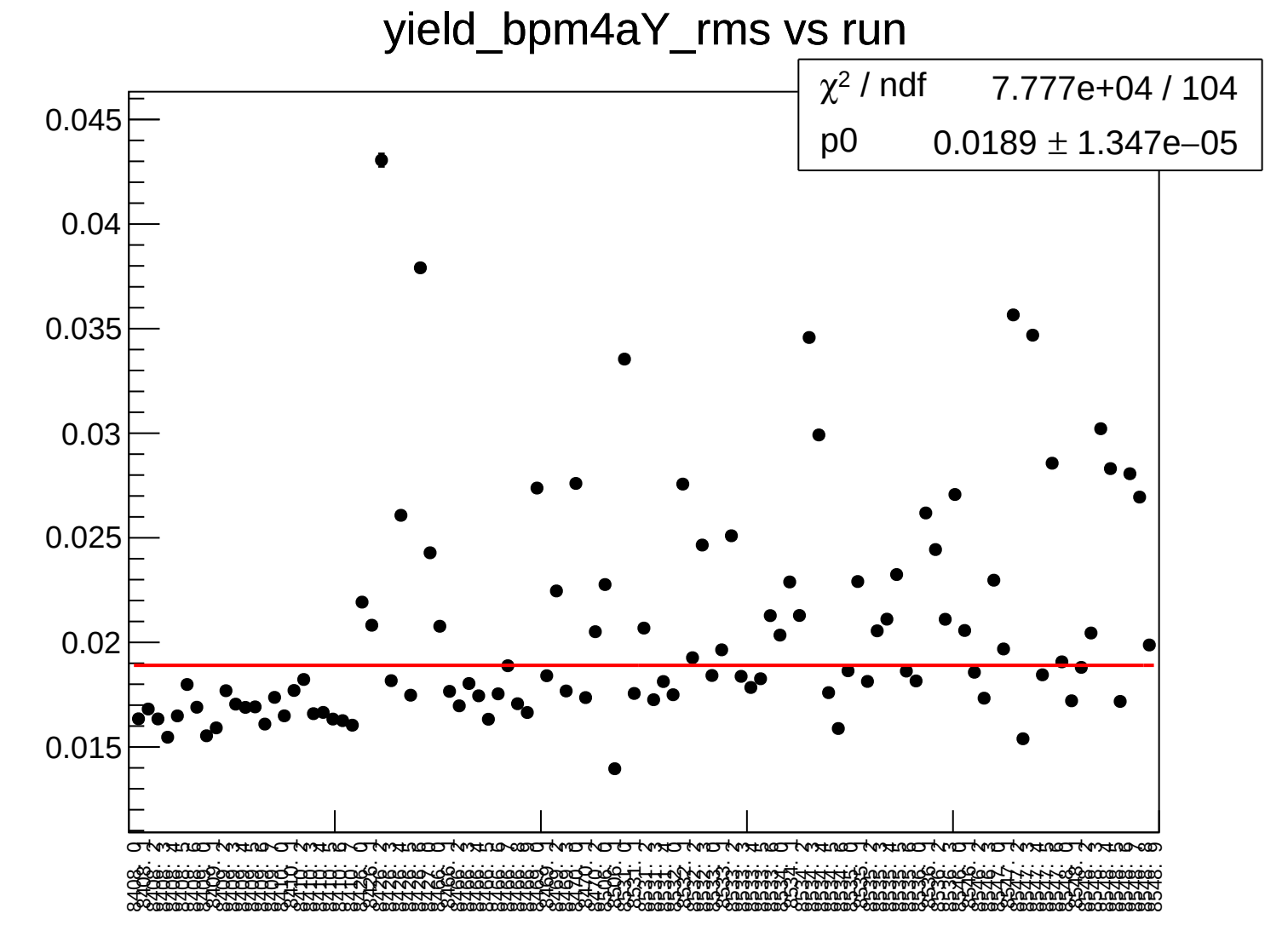

yield_bpm4aX_mean vs run
χ² / ndf 9.678e+04 / 104
p0 −0.8693 ± 5.39e−05
−0.82
−0.84
−0.86
−0.88
−0.9
pull
Entries 105
Mean −289
Std Dev 0
80
60
40
20
0
−20
−40
−60

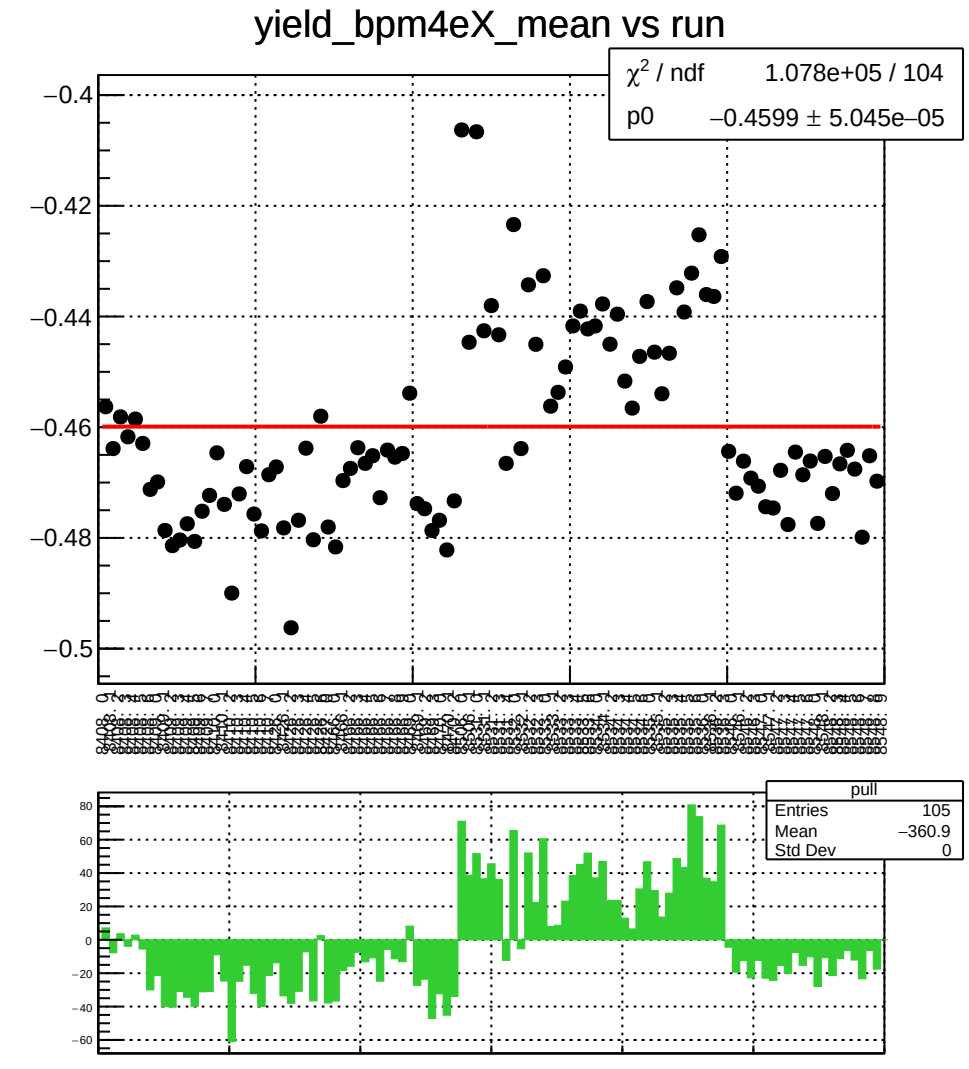

pull1D
Entries 105
Mean −1.59
Std Dev 5.029
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

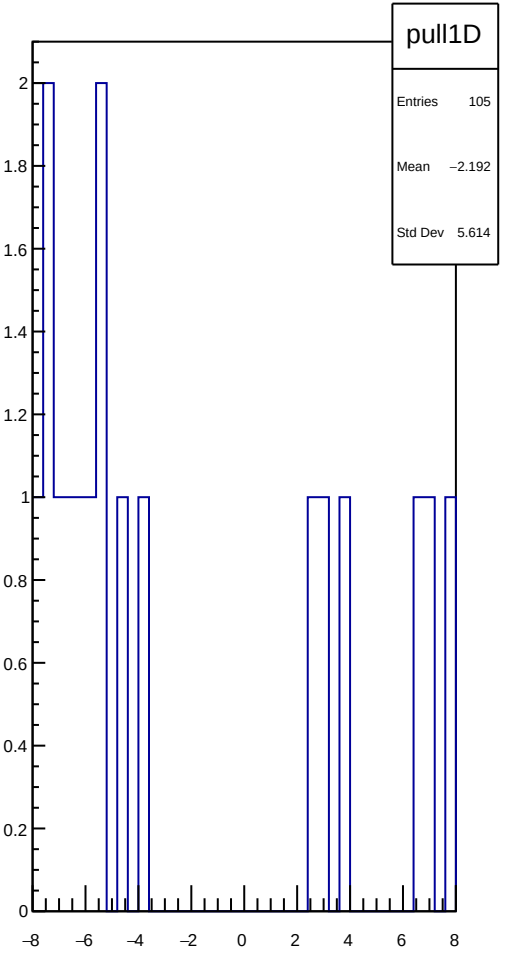

yield_bpm4aX_rms vs run
χ² / ndf 5.912e+04 / 104
p0 0.05373 ± 3.812e−05
0.1
0.09
0.08
0.07
0.06
0.05
0.04

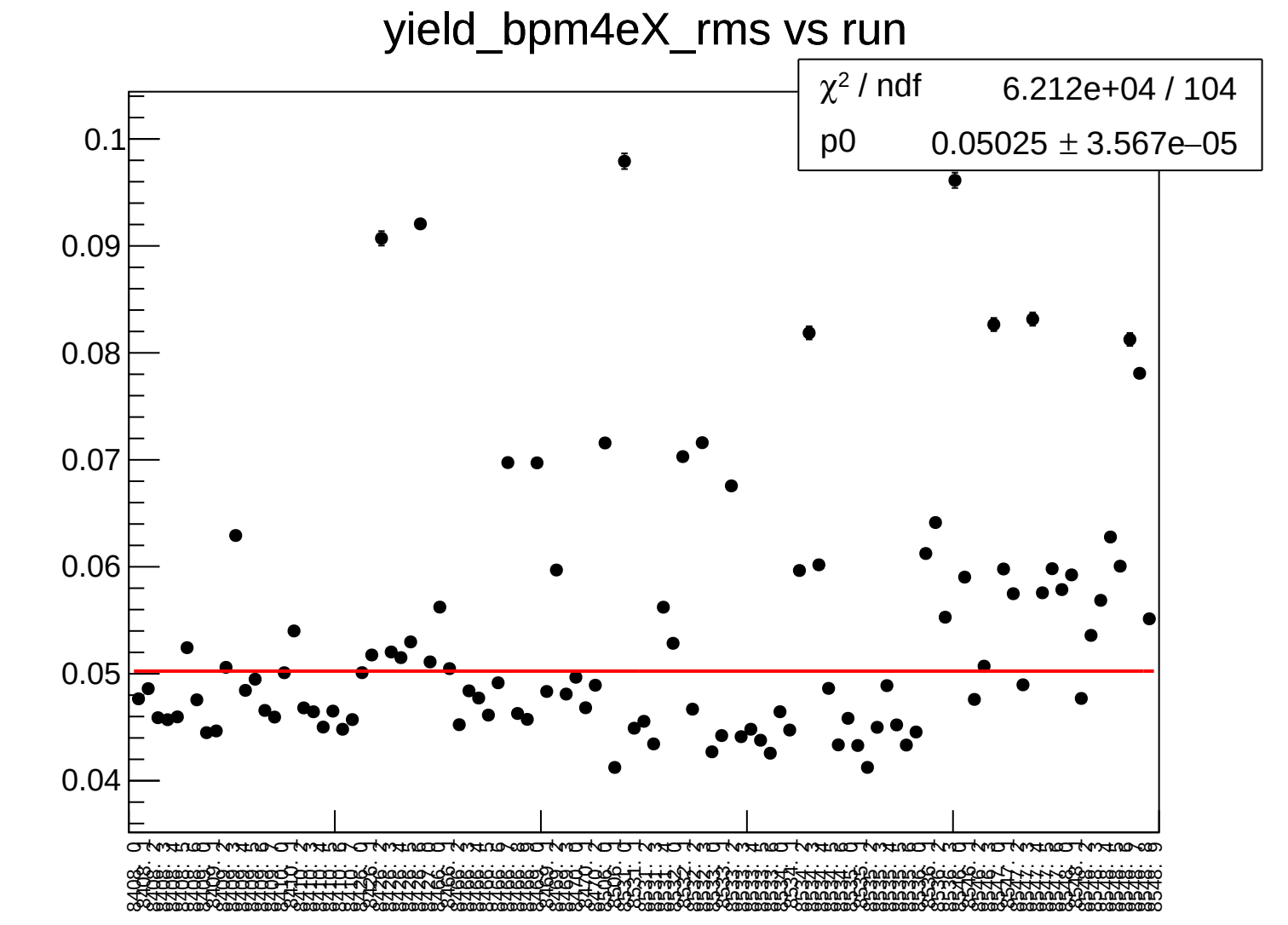

yield_bpm4aY_mean vs run
χ² / ndf 7.31e+04 / 104
p0 0.3569 ± 1.905e−05
0.37
0.365
0.36
0.355
0.35
0.345
0.34
pull
Entries 105
Mean 1400
Std Dev 0
60
40
20
0
−20
−40
−60
−80

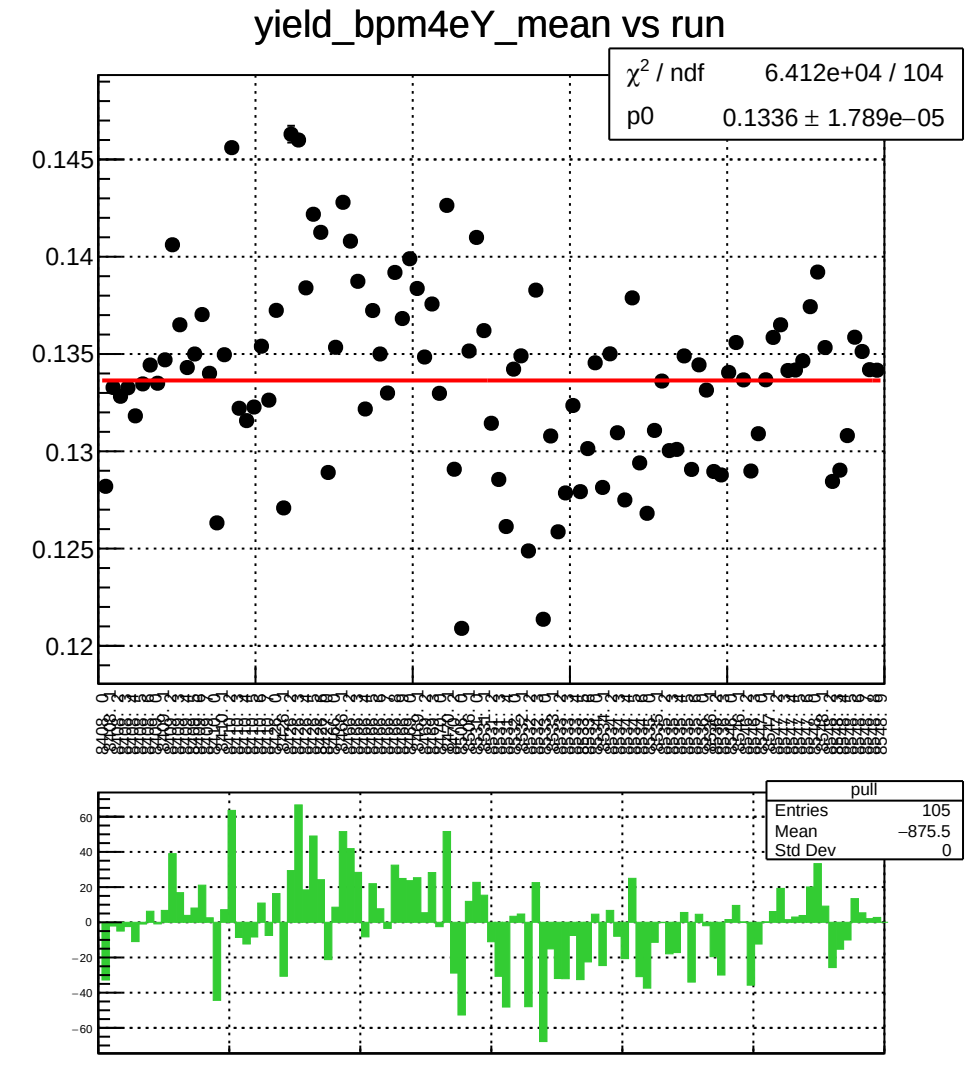

pull1D
Entries 105
Mean 0.4634
Std Dev 4.168
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

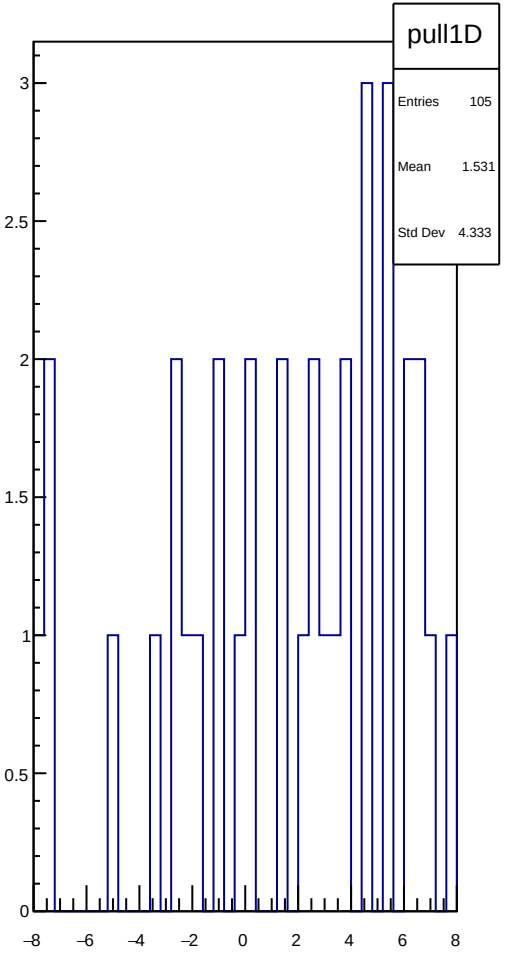

yield_bpm4aY_rms vs run
χ² / ndf 7.777e+04 / 104
p0 0.0189 ± 1.347e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015

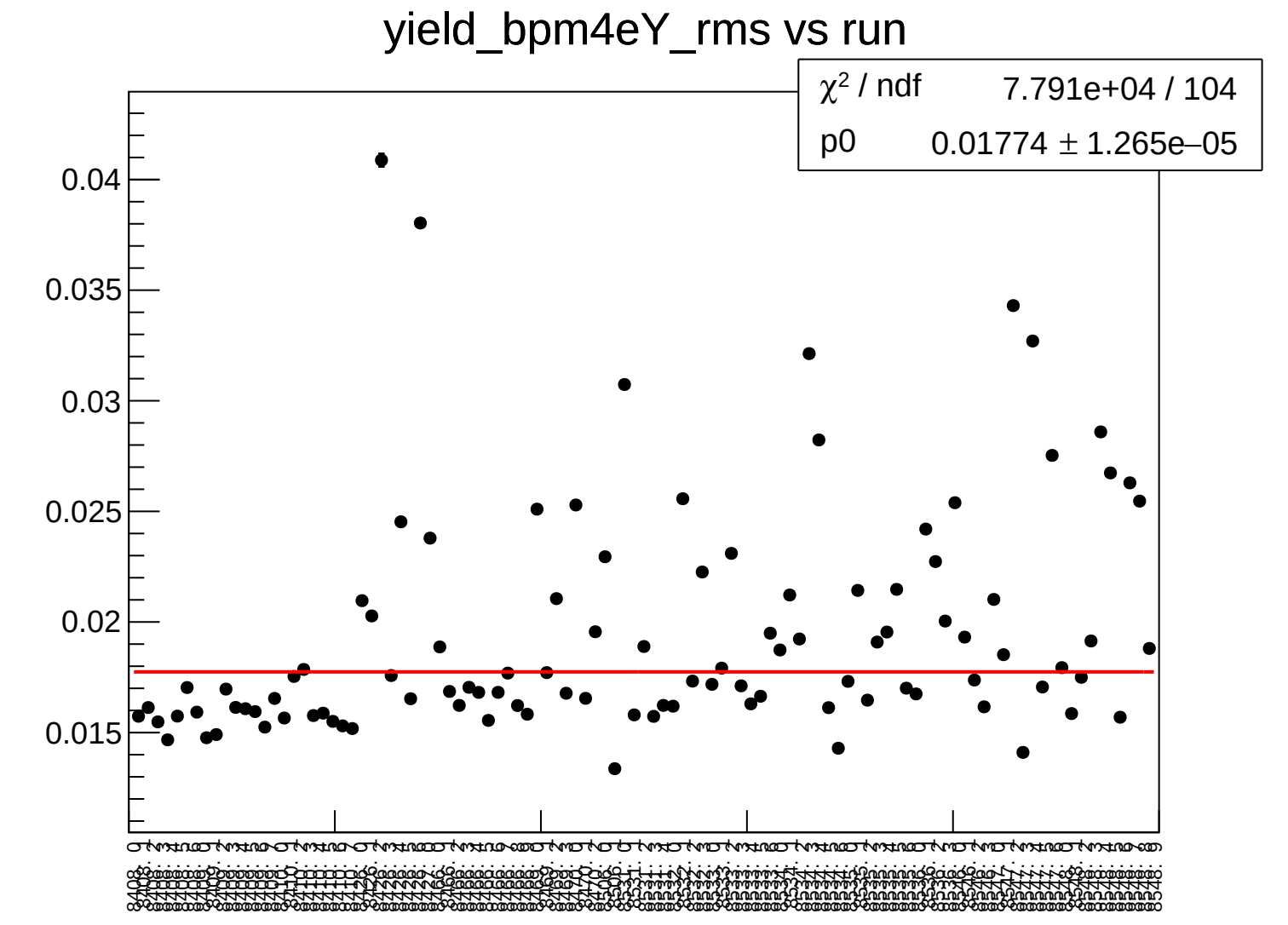

yield_bpm4eX_mean vs run
χ² / ndf 1.078e+05 / 104
p0 −0.4599 ± 5.045e−05
−0.4
−0.42
−0.44
−0.46
−0.48
−0.5
pull
Entries 105
Mean −360.9
Std Dev 0
80
60
40
20
0
−20
−40
−60

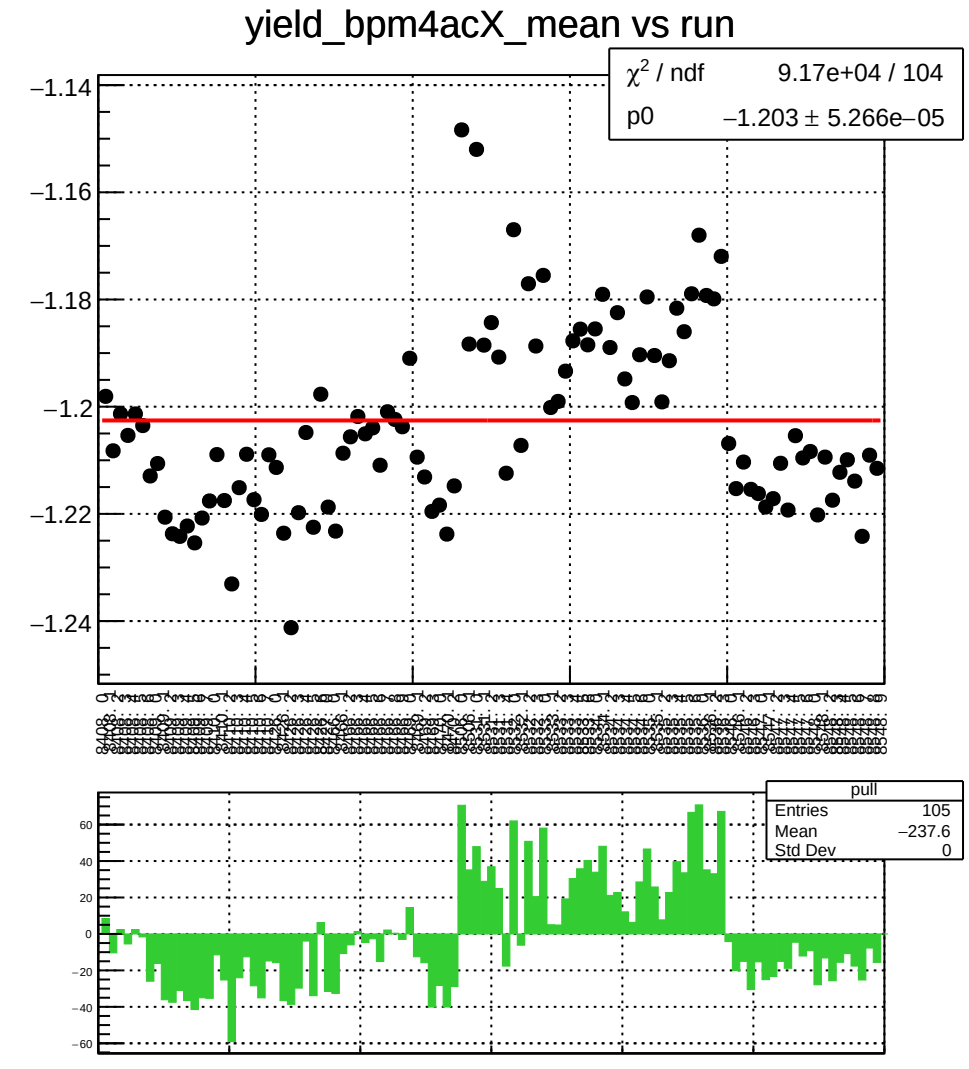

pull1D
Entries 105
Mean −2.192
Std Dev 5.614
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

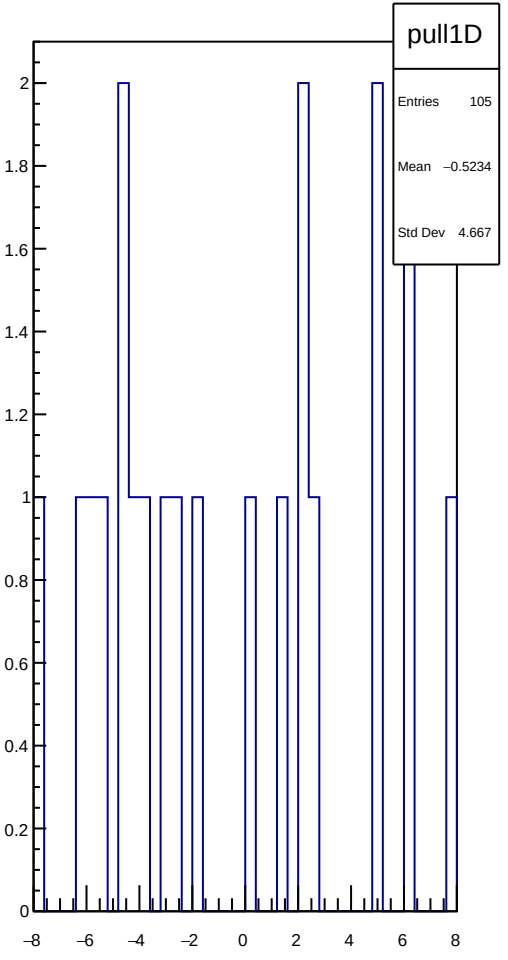

yield_bpm4eX_rms vs run
χ² / ndf 6.212e+04 / 104
p0 0.05025 ± 3.567e–05
0.1
0.09
0.08
0.07
0.06
0.05
0.04

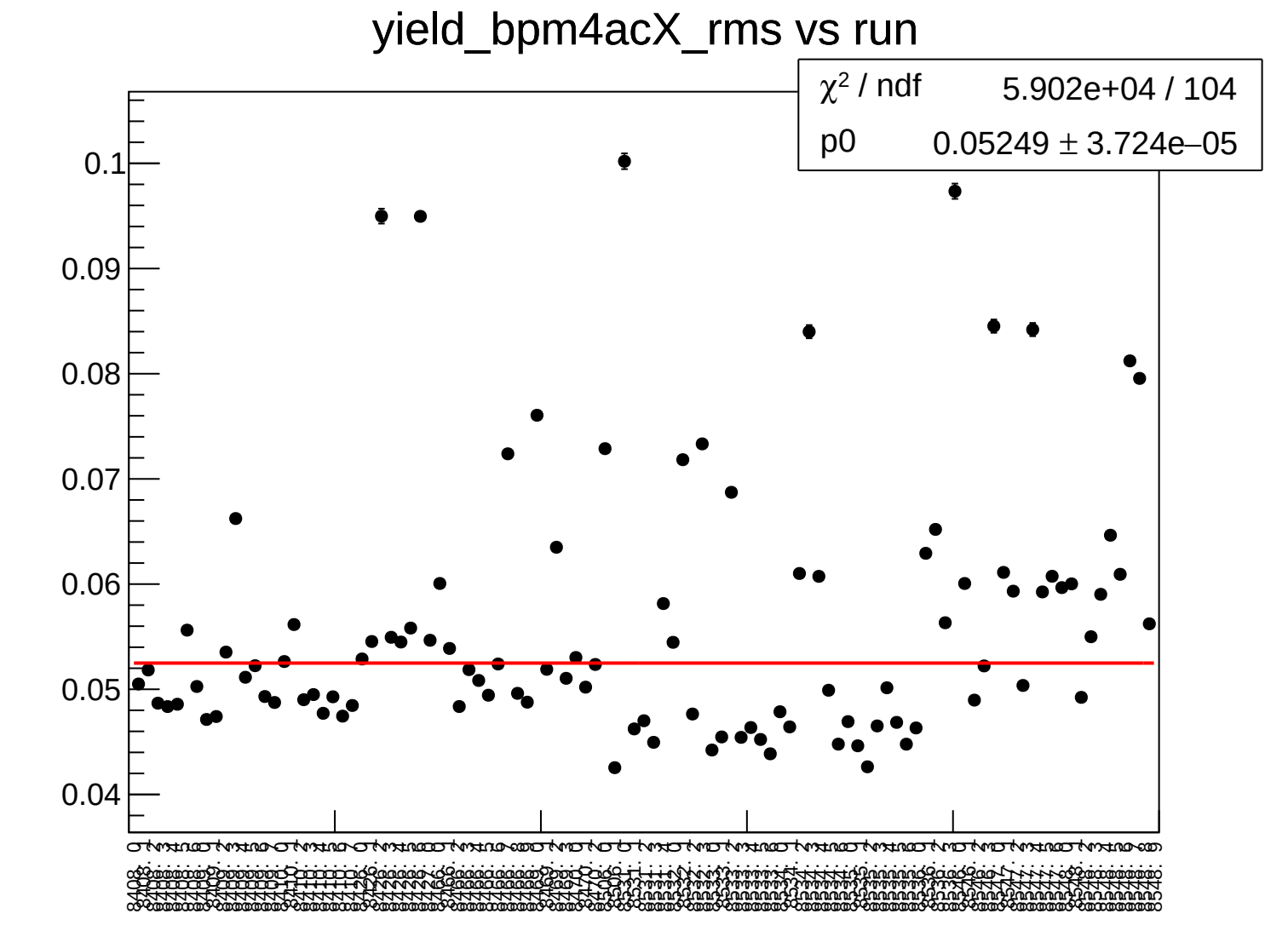

yield_bpm4eY_mean vs run
χ² / ndf 6.412e+04 / 104
p0 0.1336 ± 1.789e−05
0.145
0.14
0.135
0.13
0.125
0.12
pull
Entries 105
Mean −875.5
Std Dev 0
60
40
20
0
−20
−40
−60

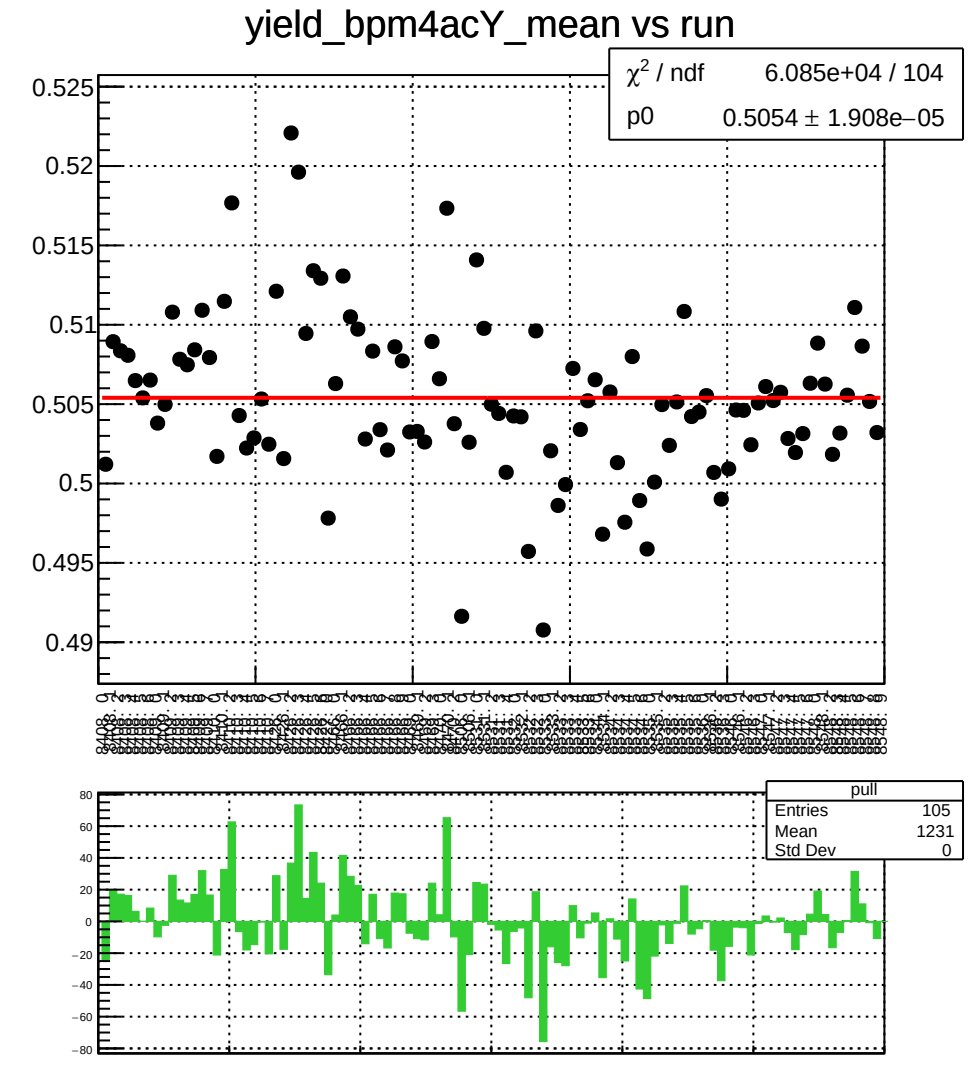

pull1D
Entries 105
Mean 1.531
Std Dev 4.333
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

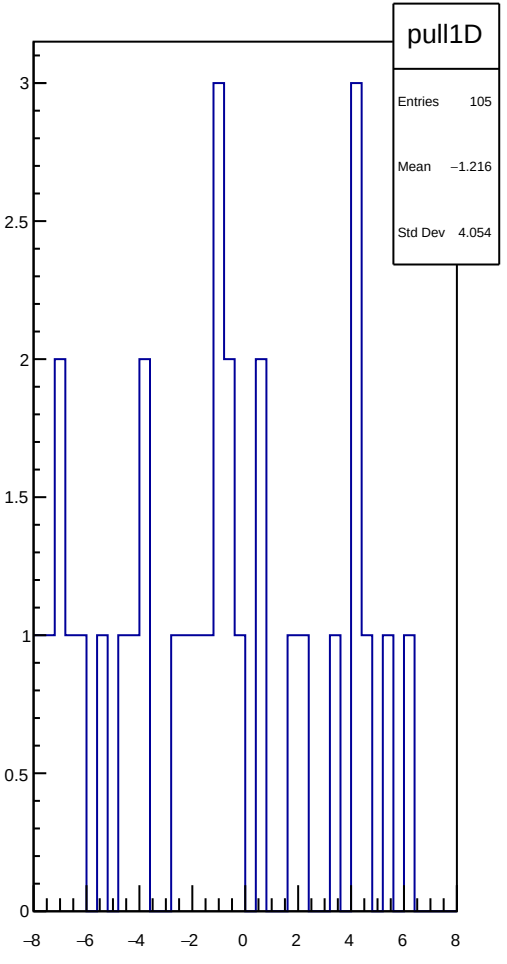

yield_bpm4eY_rms vs run
χ² / ndf 7.791e+04 / 104
p0 0.01774 ± 1.265e−05
0.04
0.035
0.03
0.025
0.02
0.015

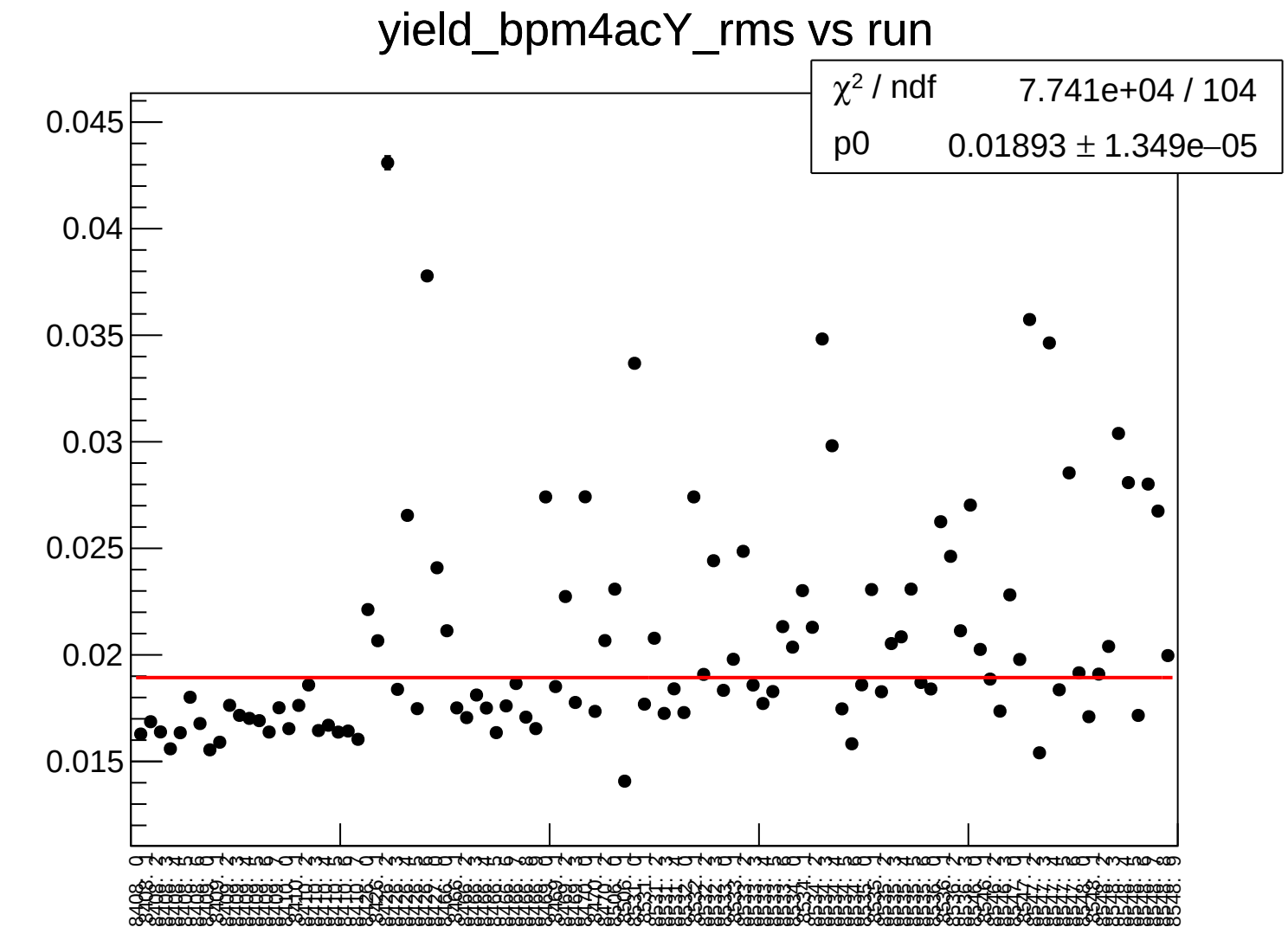

yield_bpm4acX_mean vs run
χ² / ndf 9.17e+04 / 104
p0 −1.203 ± 5.266e−05
−1.14
−1.16
−1.18
−1.2
−1.22
−1.24
pull
Entries 105
Mean −237.6
Std Dev 0
60
40
20
0
−20
−40
−60

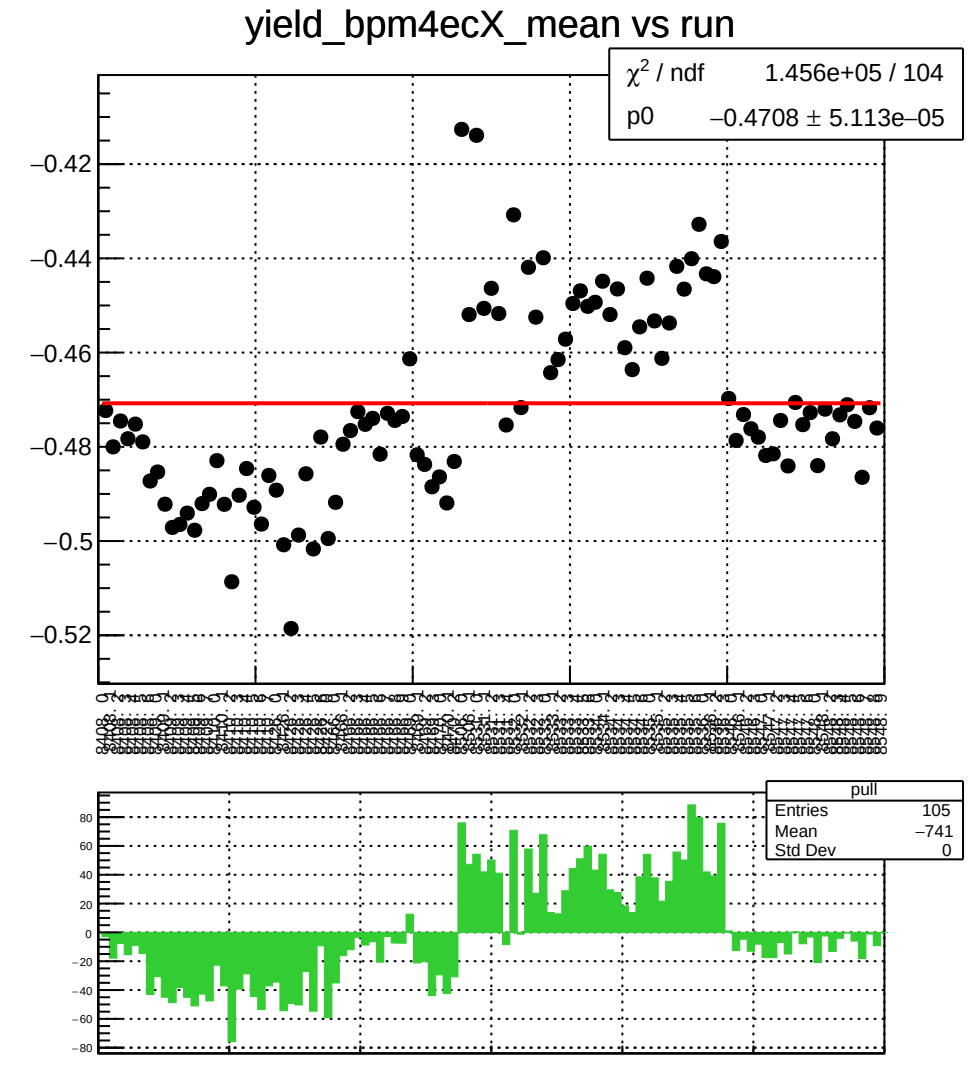

pull1D
Entries 105
Mean −0.5234
Std Dev 4.667
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

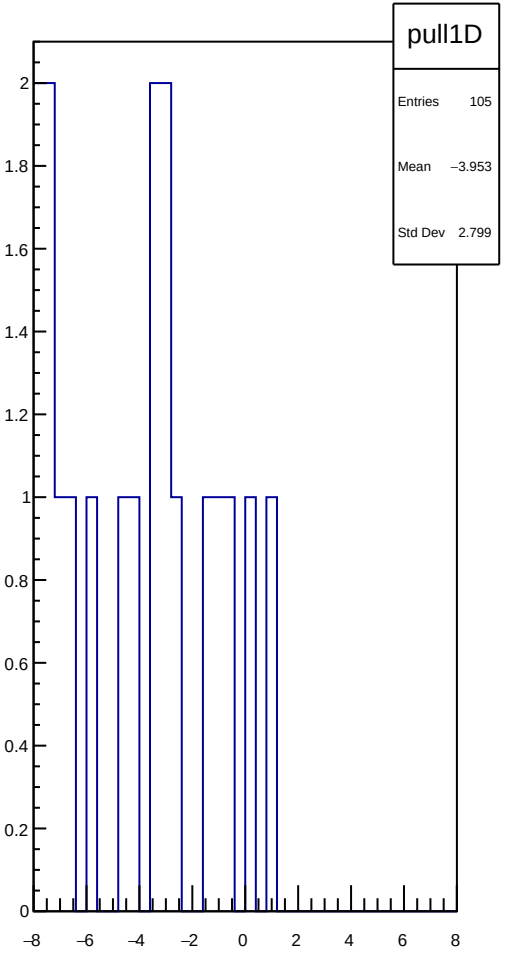

yield_bpm4acX_rms vs run
χ² / ndf 5.902e+04 / 104
p0 0.05249 ± 3.724e−05
0.1
0.09
0.08
0.07
0.06
0.05
0.04

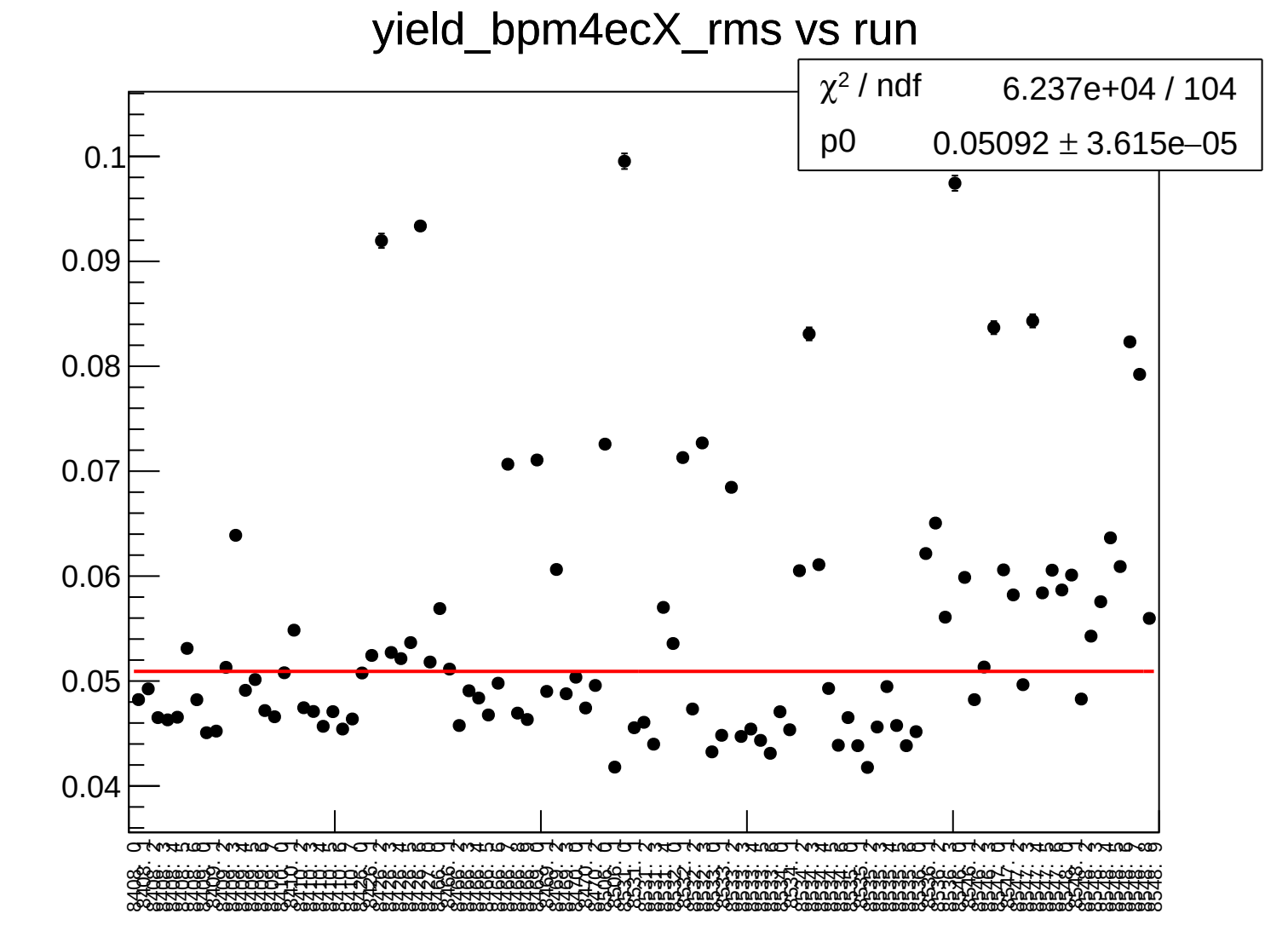

yield_bpm4acY_mean vs run
χ² / ndf 6.085e+04 / 104
p0 0.5054 ± 1.908e−05
0.525
0.52
0.515
0.51
0.505
0.5
0.495
0.49
pull
Entries 105
Mean 1231
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80

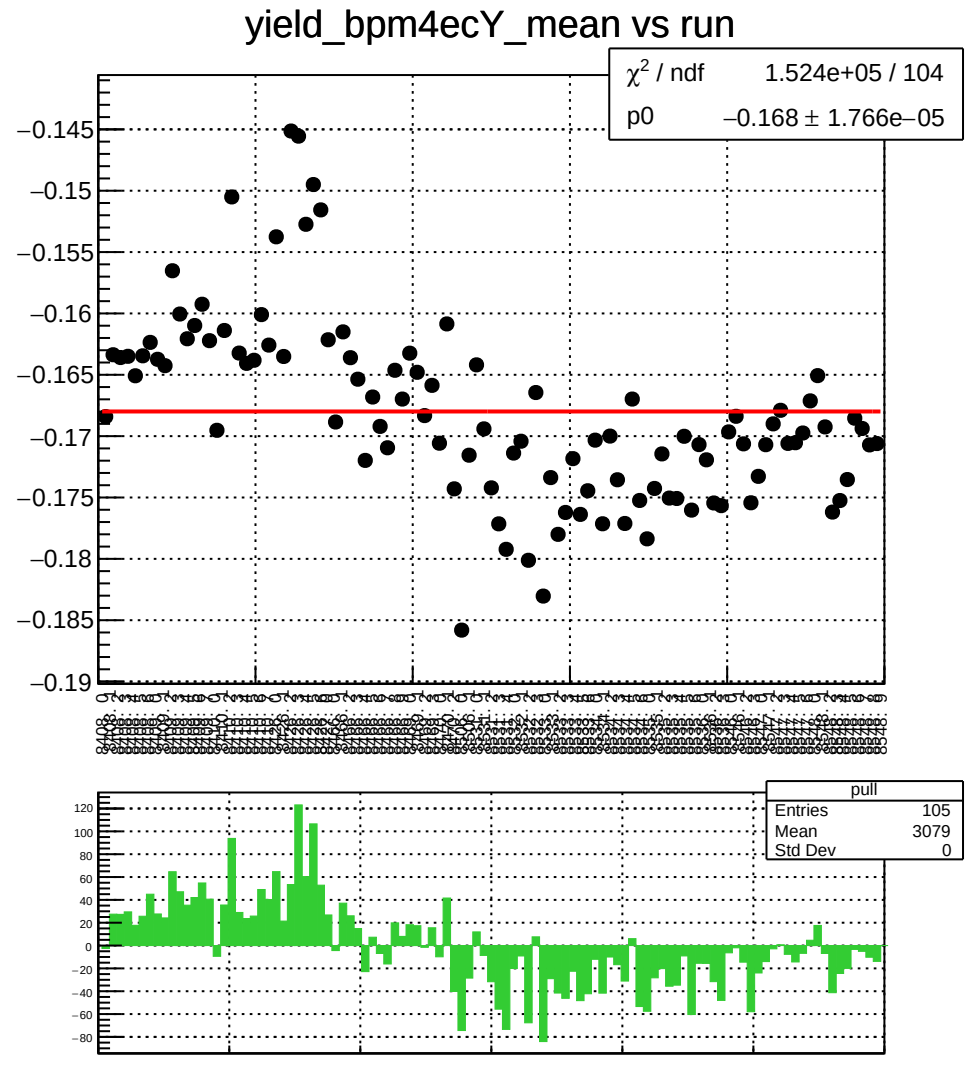

pull1D
Entries 105
Mean −1.216
Std Dev 4.054
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

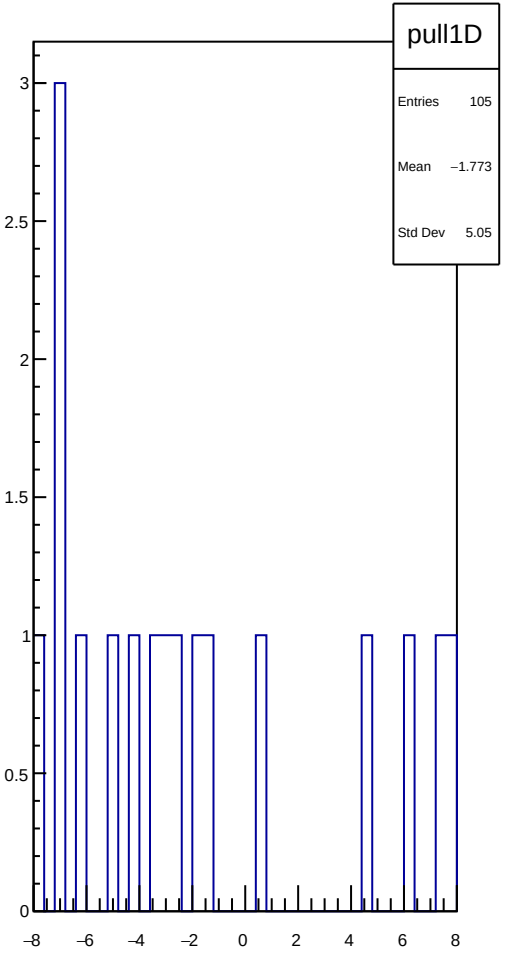

yield_bpm4acY_rms vs run
χ² / ndf 7.741e+04 / 104
p0 0.01893 ± 1.349e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015

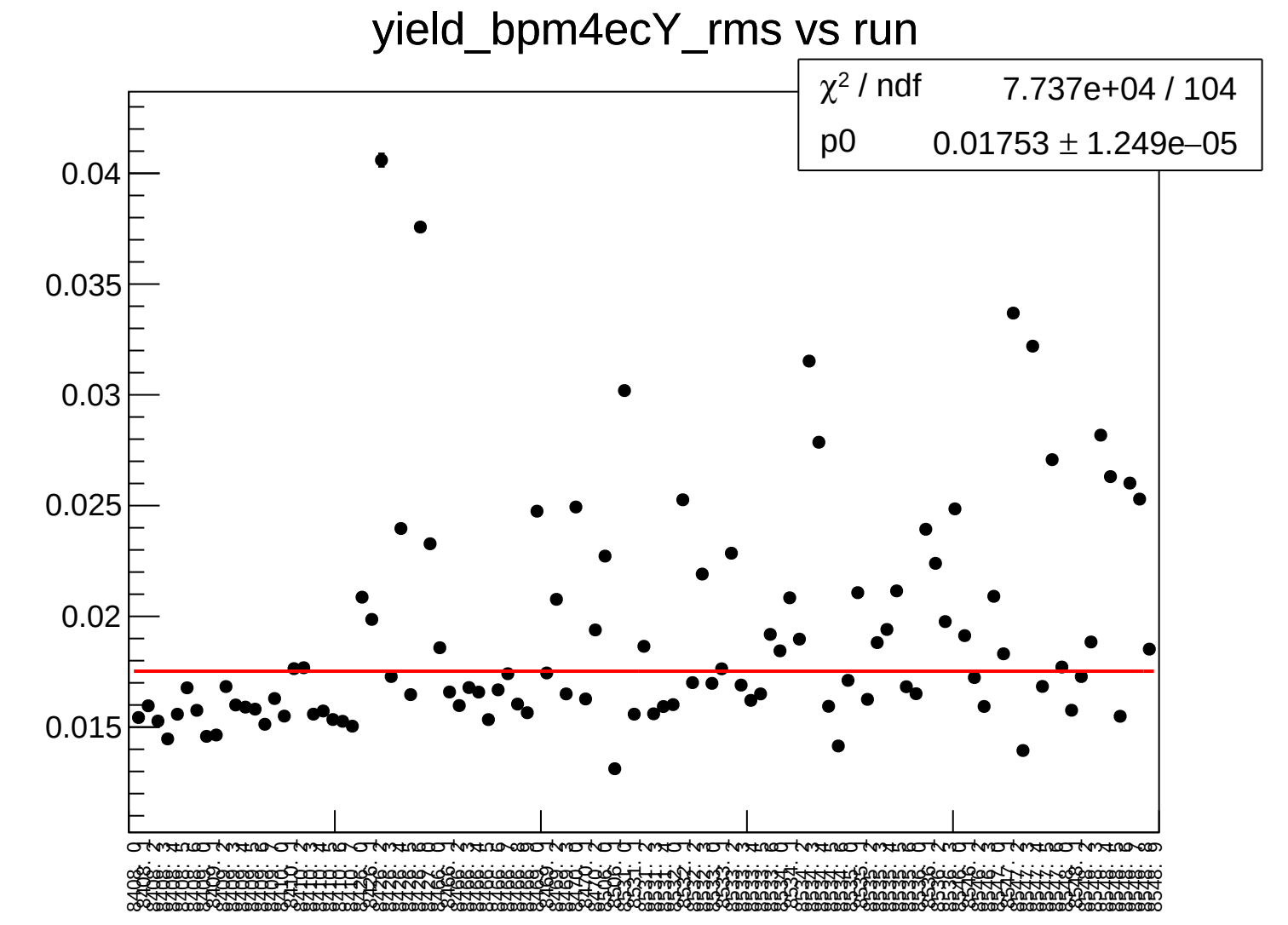

yield_bpm4ecX_mean vs run
χ² / ndf 1.456e+05 / 104
p0 −0.4708 ± 5.113e−05
−0.42
−0.44
−0.46
−0.48
−0.5
−0.52
pull
Entries 105
Mean −741
Std Dev 0
80
60
40
20
0
−20
−40
−60
−80

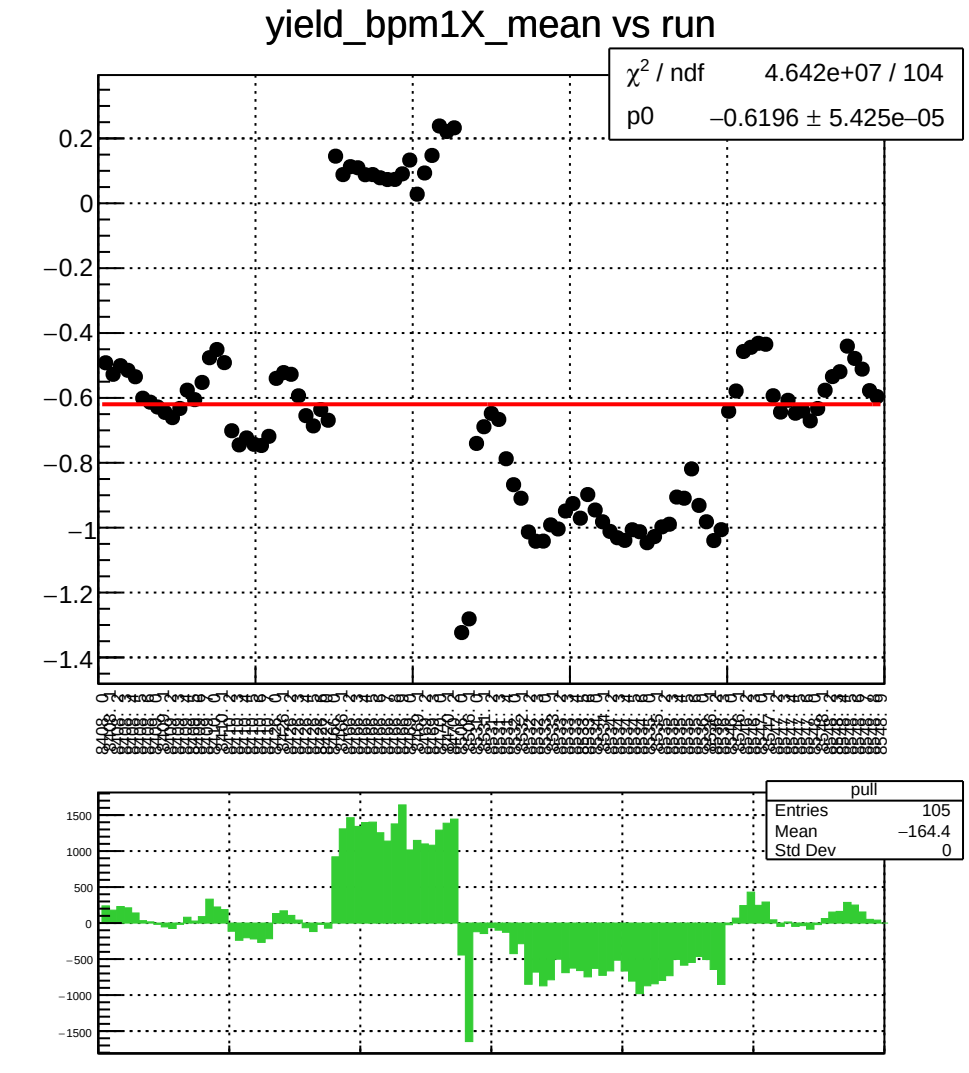

pull1D
Entries 105
Mean −3.953
Std Dev 2.799
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

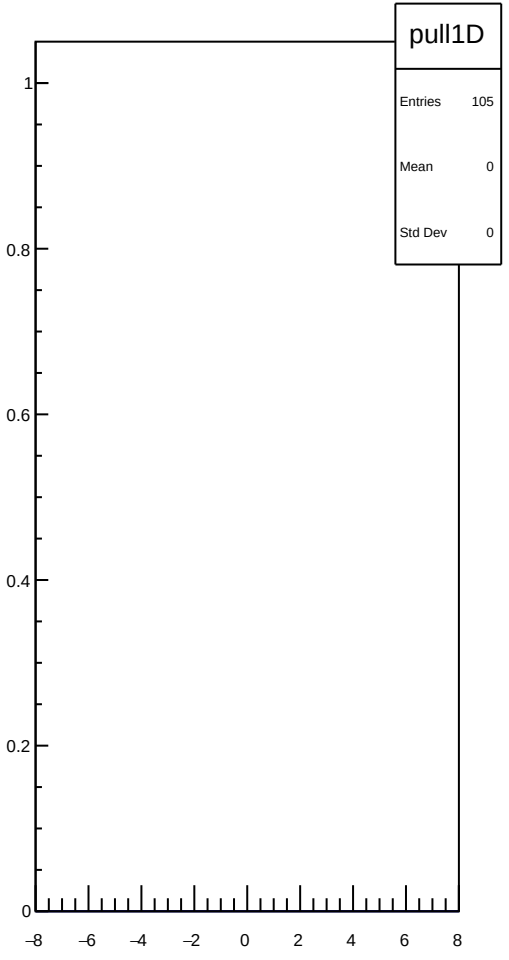

yield_bpm4ecX_rms vs run
χ² / ndf 6.237e+04 / 104
p0 0.05092 ± 3.615e−05
0.1
0.09
0.08
0.07
0.06
0.05
0.04

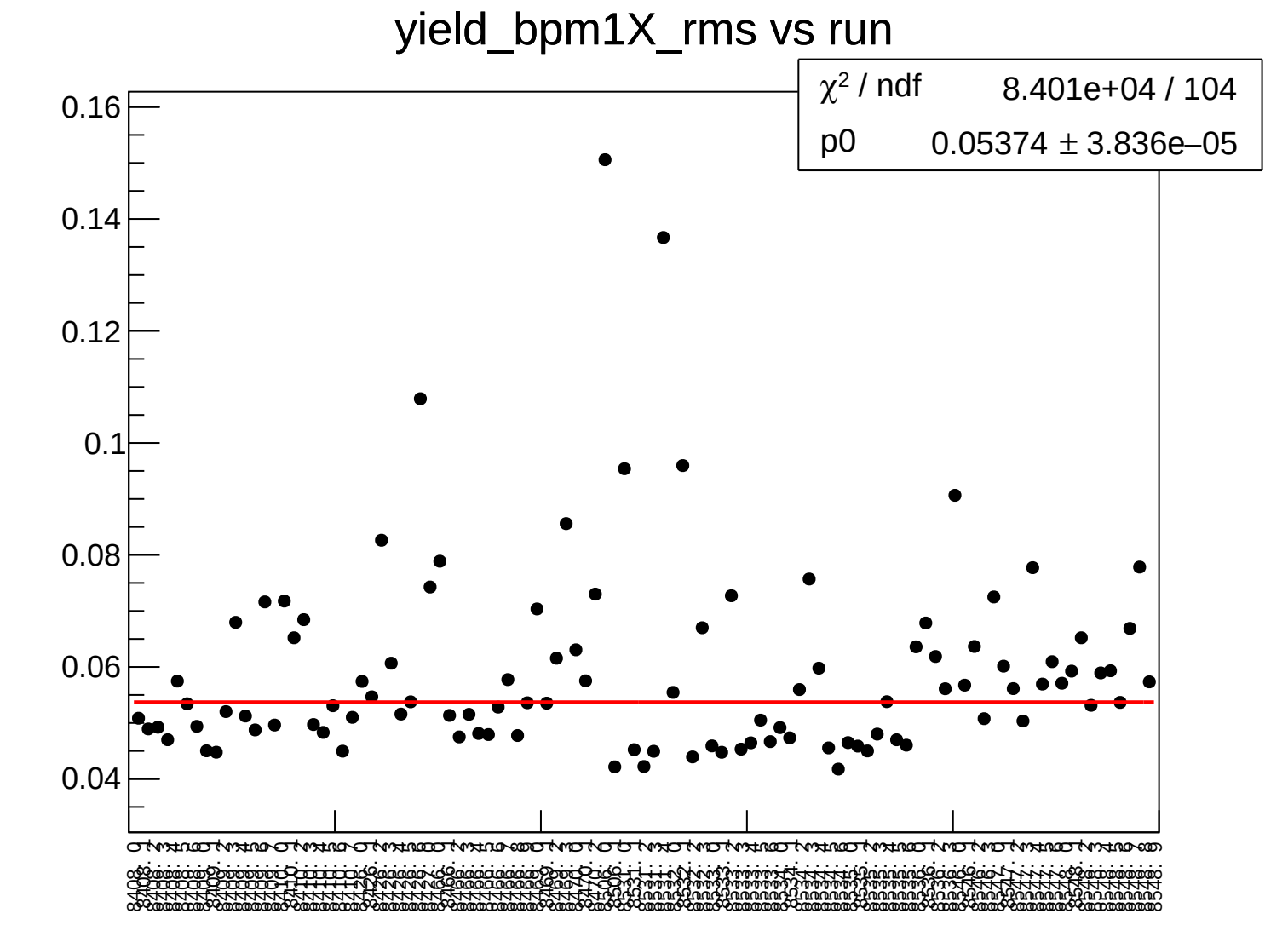

yield_bpm4ecY_mean vs run
χ² / ndf 1.524e+05 / 104
p0 −0.168 ± 1.766e−05
−0.145
−0.15
−0.155
−0.16
−0.165
−0.17
−0.175
−0.18
−0.185
−0.19
pull
Entries 105
Mean 3079
Std Dev 0
120
100
80
60
40
20
0
−20
−40
−60
−80

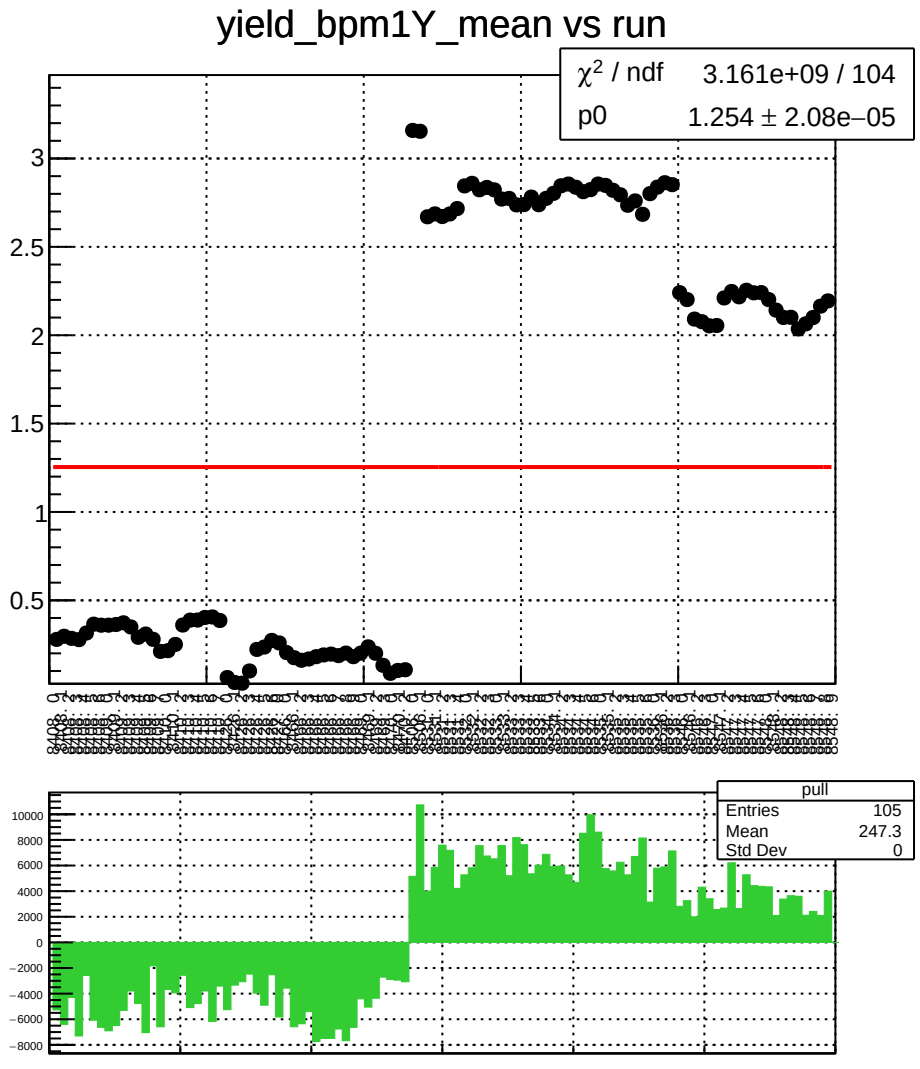

pull1D
Entries 105
Mean −1.773
Std Dev 5.05
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

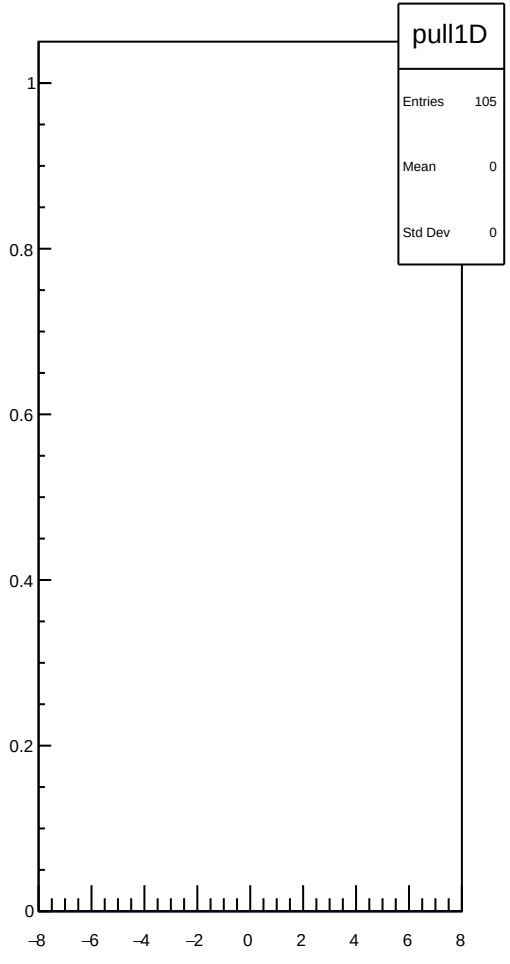

yield_bpm4ecY_rms vs run
χ² / ndf 7.737e+04 / 104
p0 0.01753 ± 1.249e−05
0.04
0.035
0.03
0.025
0.02
0.015

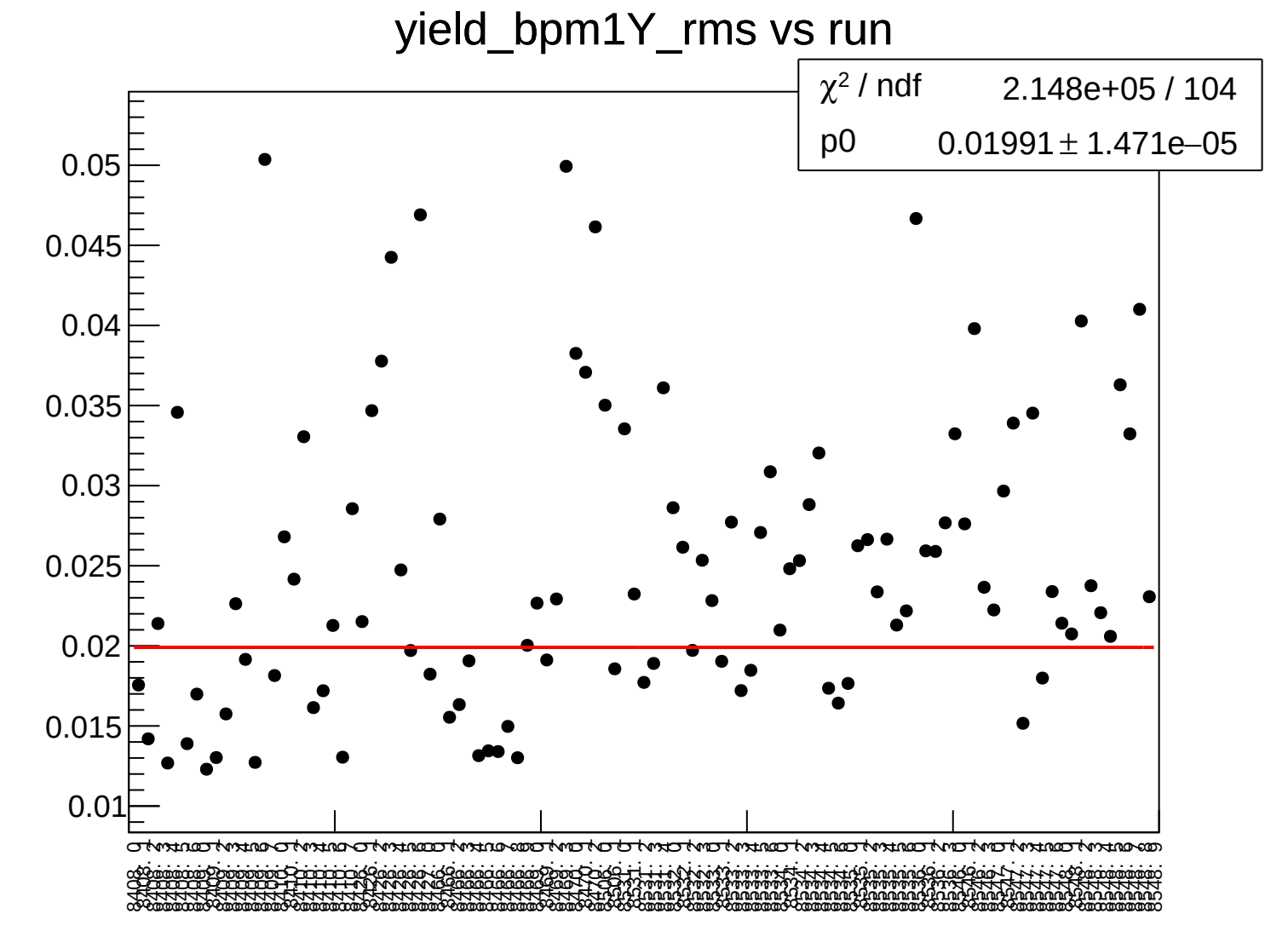

yield_bpm1X_mean vs run
χ² / ndf 4.642e+07 / 104
p0 −0.6196 ± 5.425e−05
pull
Entries 105
Mean −164.4
Std Dev 0

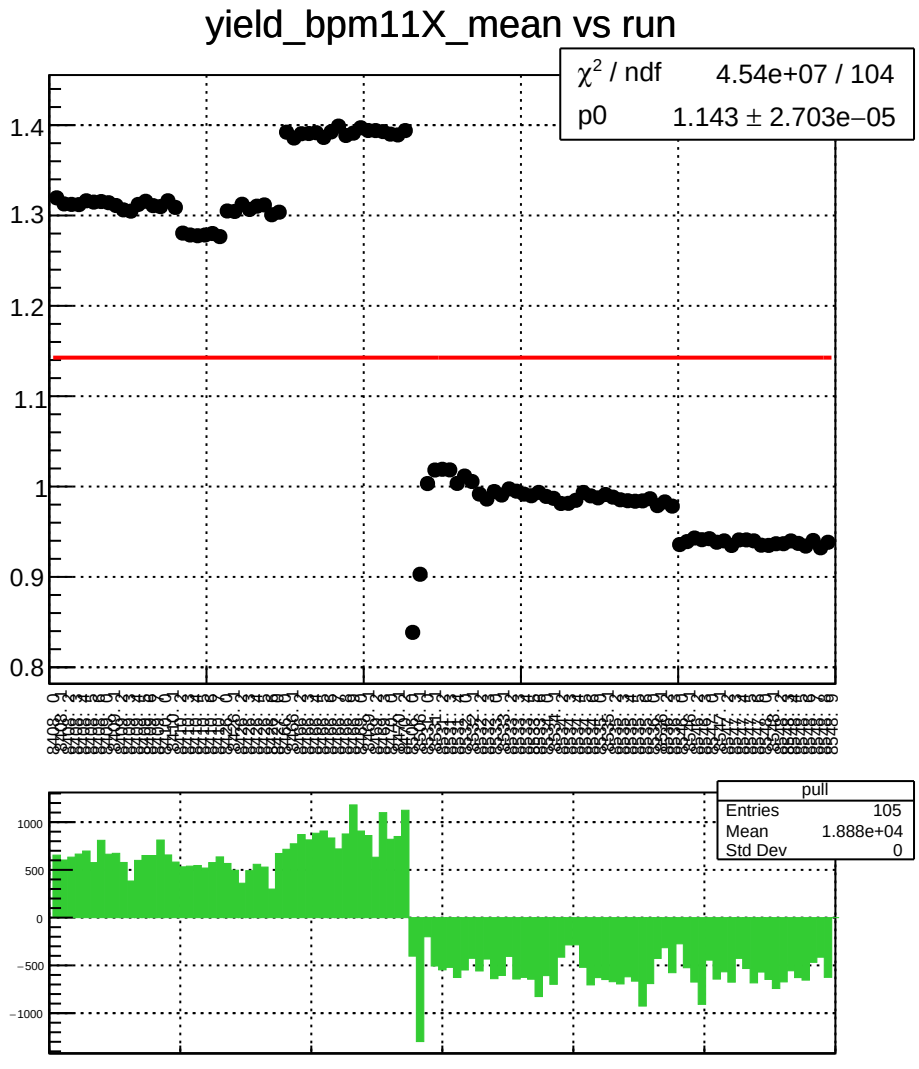

pull1D
Entries 105
Mean 0
Std Dev 0

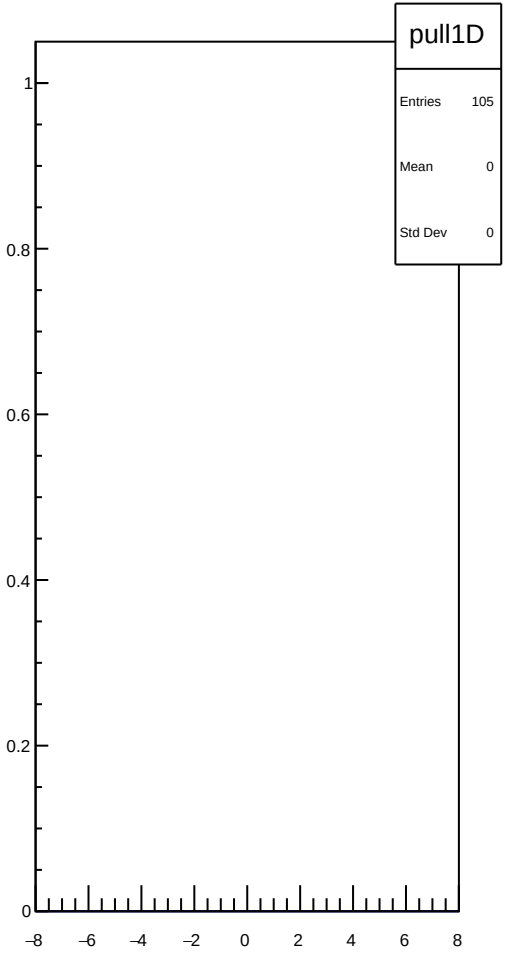

yield_bpm1X_rms vs run
χ² / ndf 8.401e+04 / 104
p0 0.05374 ± 3.836e–05
0.16
0.14
0.12
0.1
0.08
0.06
0.04

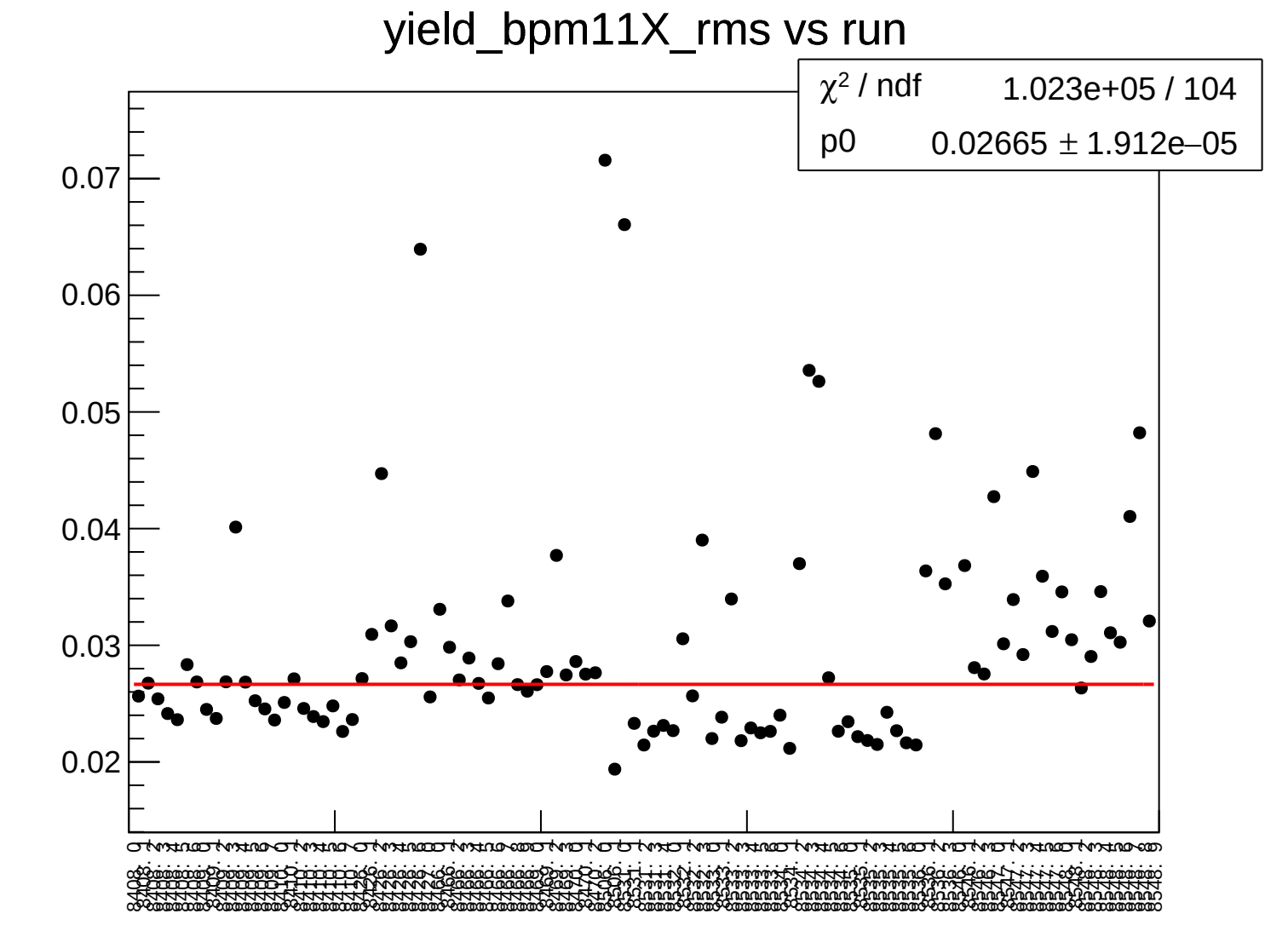

yield_bpm1Y_mean vs run
χ² / ndf 3.161e+09 / 104
p0 1.254 ± 2.08e−05
pull
Entries 105
Mean 247.3
Std Dev 0

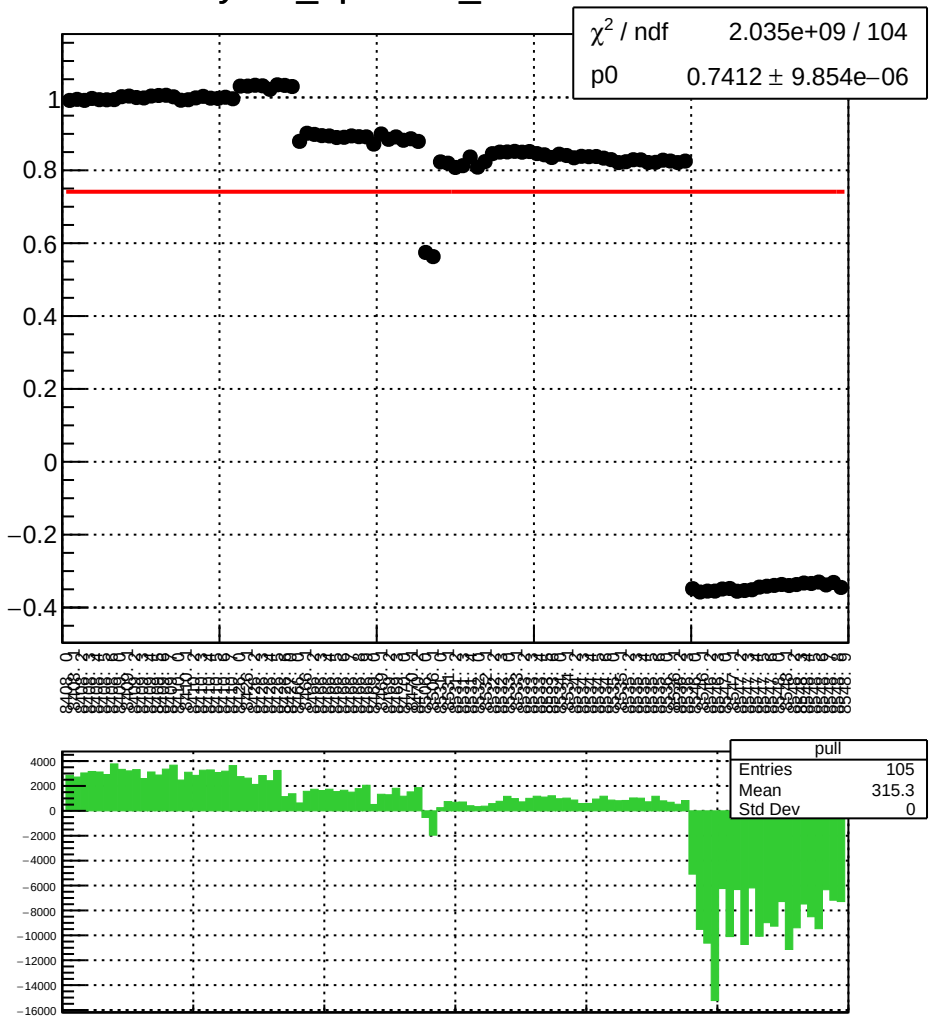

pull1D
Entries 105
Mean 0
Std Dev 0

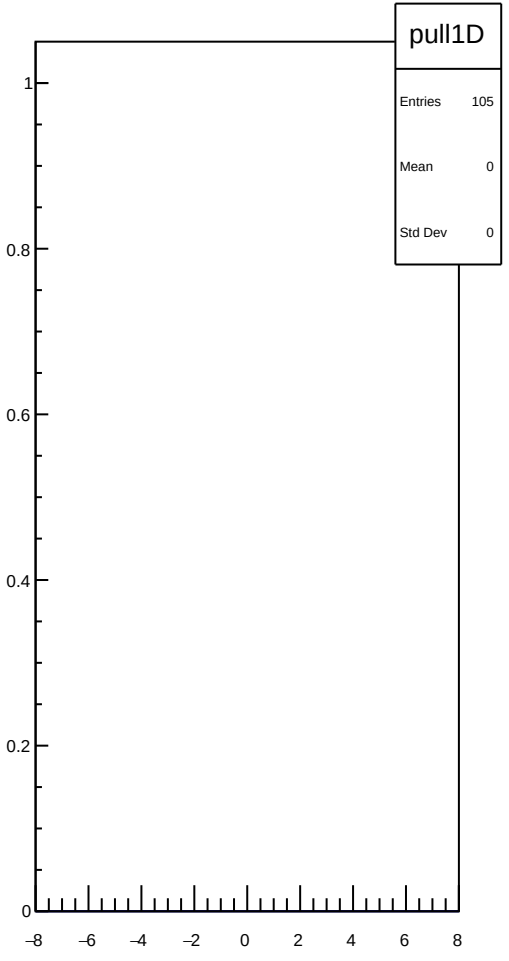

yield_bpm1Y_rms vs run
χ² / ndf 2.148e+05 / 104
p0 0.01991 ± 1.471e−05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

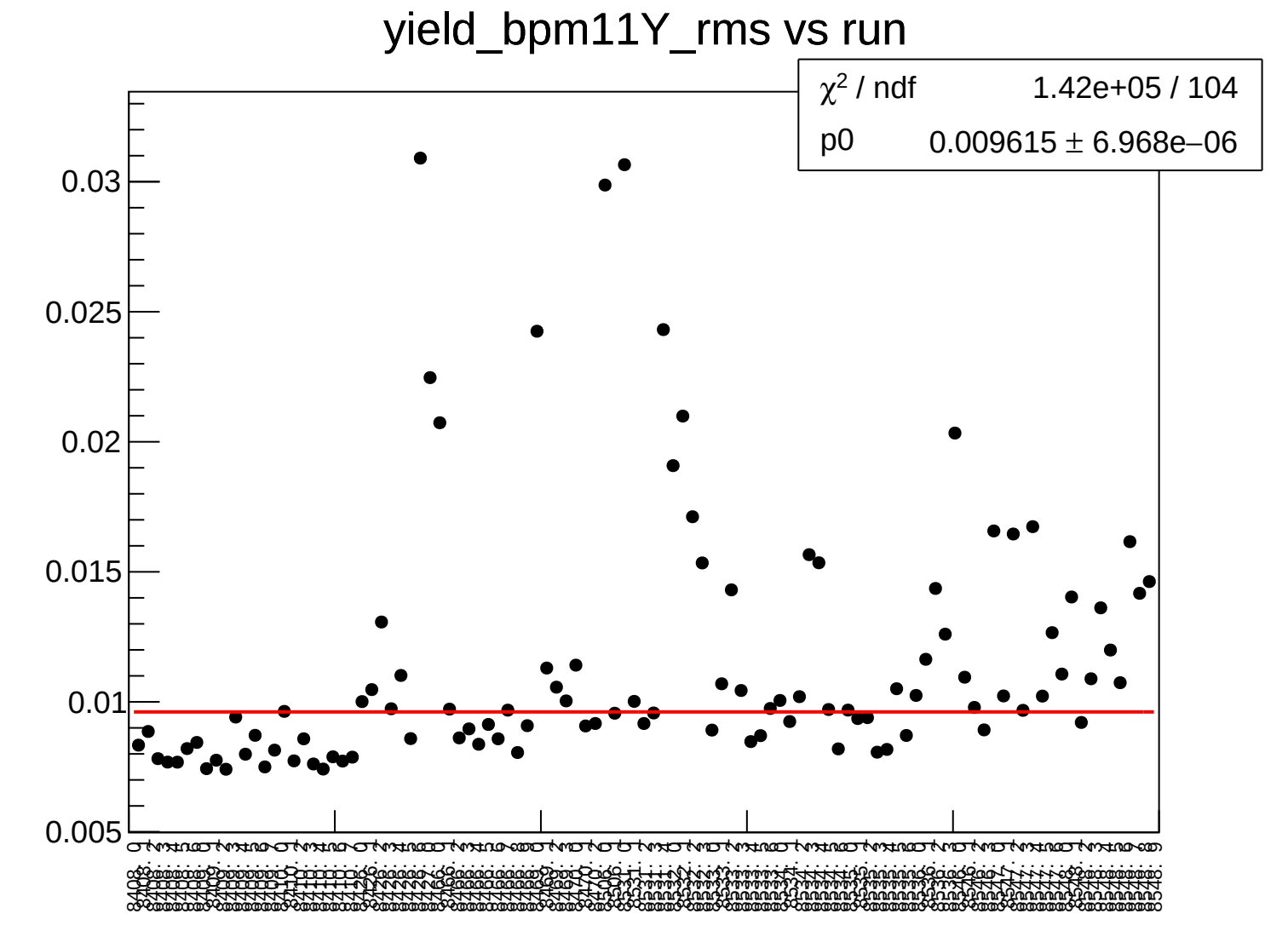

yield_bpm11X_mean vs run
χ² / ndf 4.54e+07 / 104
p0 1.143 ± 2.703e−05
1.4
1.3
1.2
1.1
1
0.9
0.8
pull
Entries 105
Mean 1.888e+04
Std Dev 0
1000
500
0
−500
−1000

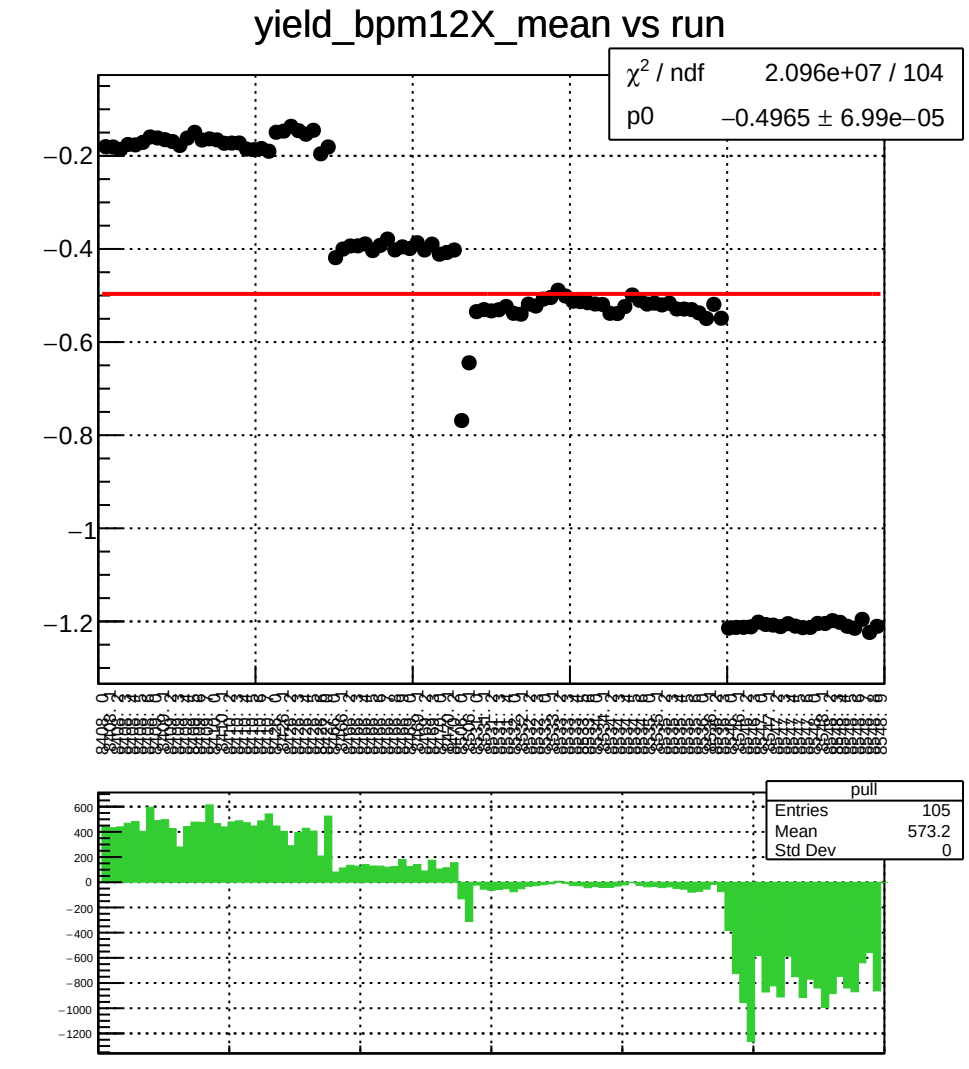

pull1D
Entries 105
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

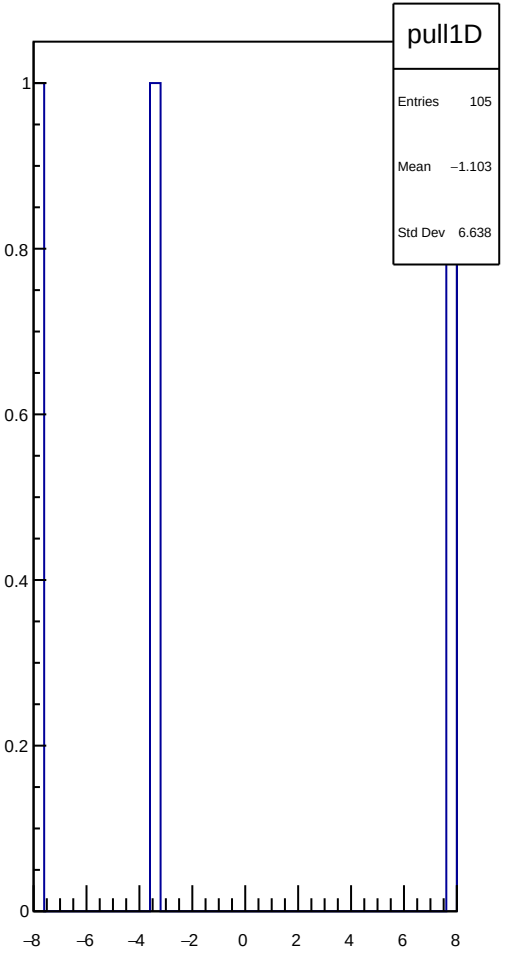

yield_bpm11X_rms vs run
χ² / ndf 1.023e+05 / 104
p0 0.02665 ± 1.912e−05
0.07
0.06
0.05
0.04
0.03
0.02

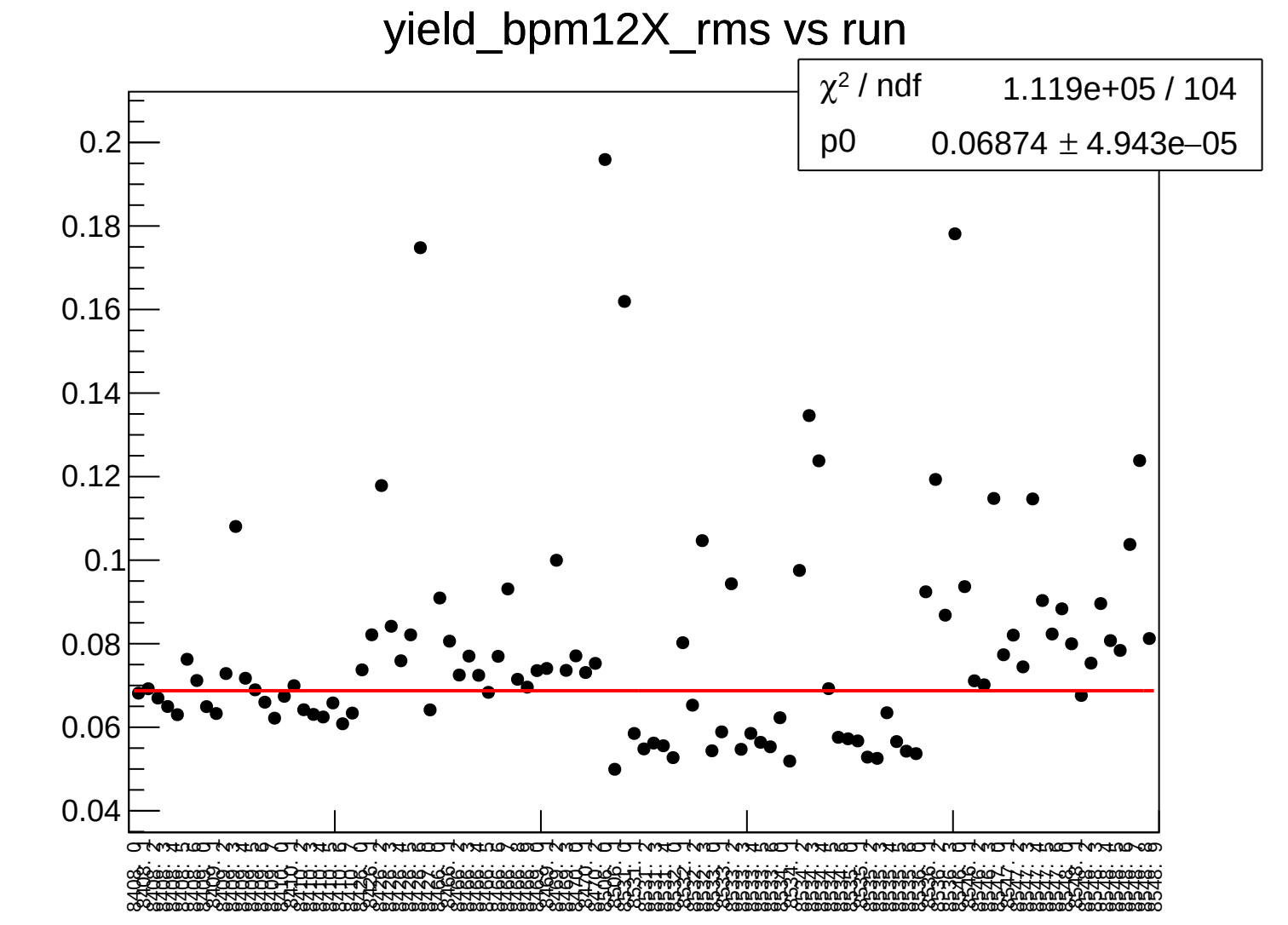

yield_bpm11Y_mean vs run
χ² / ndf 2.035e+09 / 104
p0 0.7412 ± 9.854e−06
pull
Entries 105
Mean 315.3
Std Dev 0

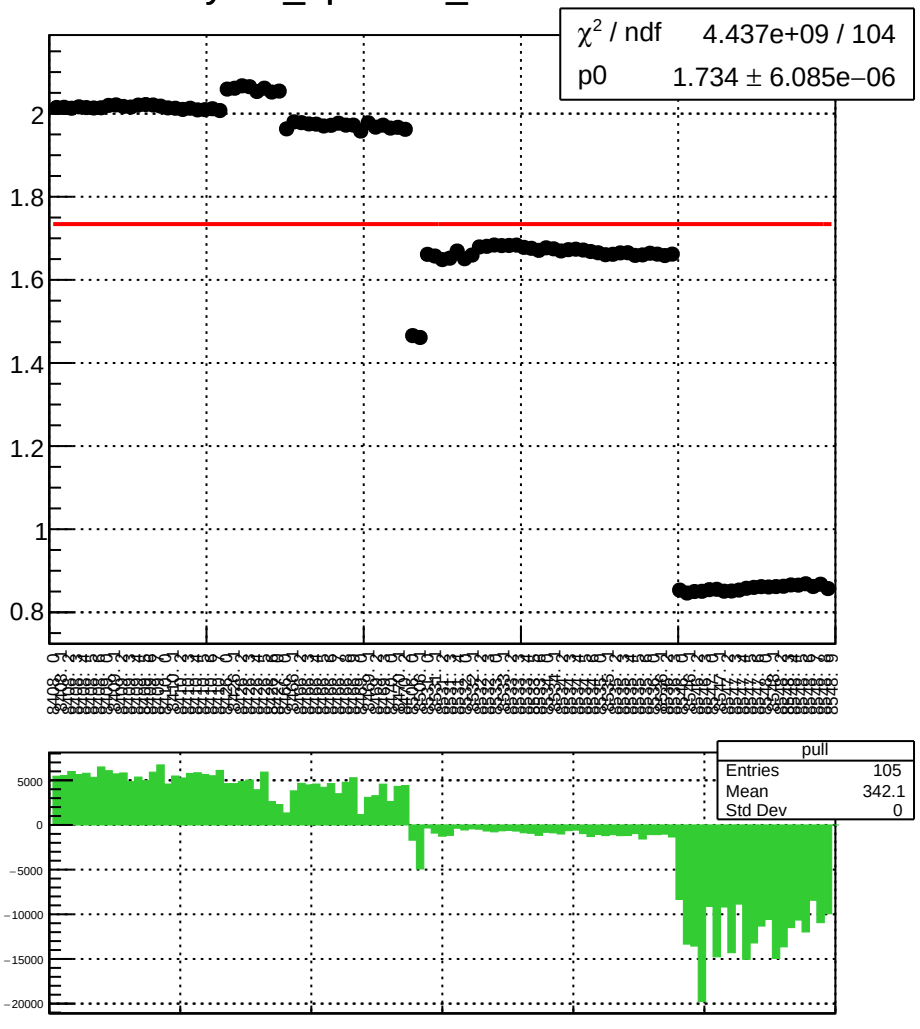

pull1D
Entries 105
Mean 0
Std Dev 0

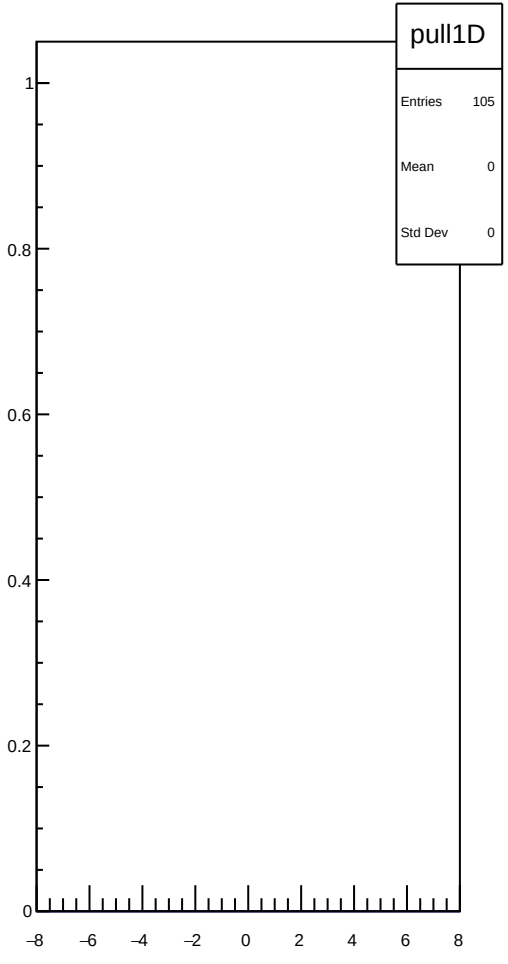

yield_bpm11Y_rms vs run
χ² / ndf 1.42e+05 / 104
p0 0.009615 ± 6.968e−06
0.03
0.025
0.02
0.015
0.01
0.005

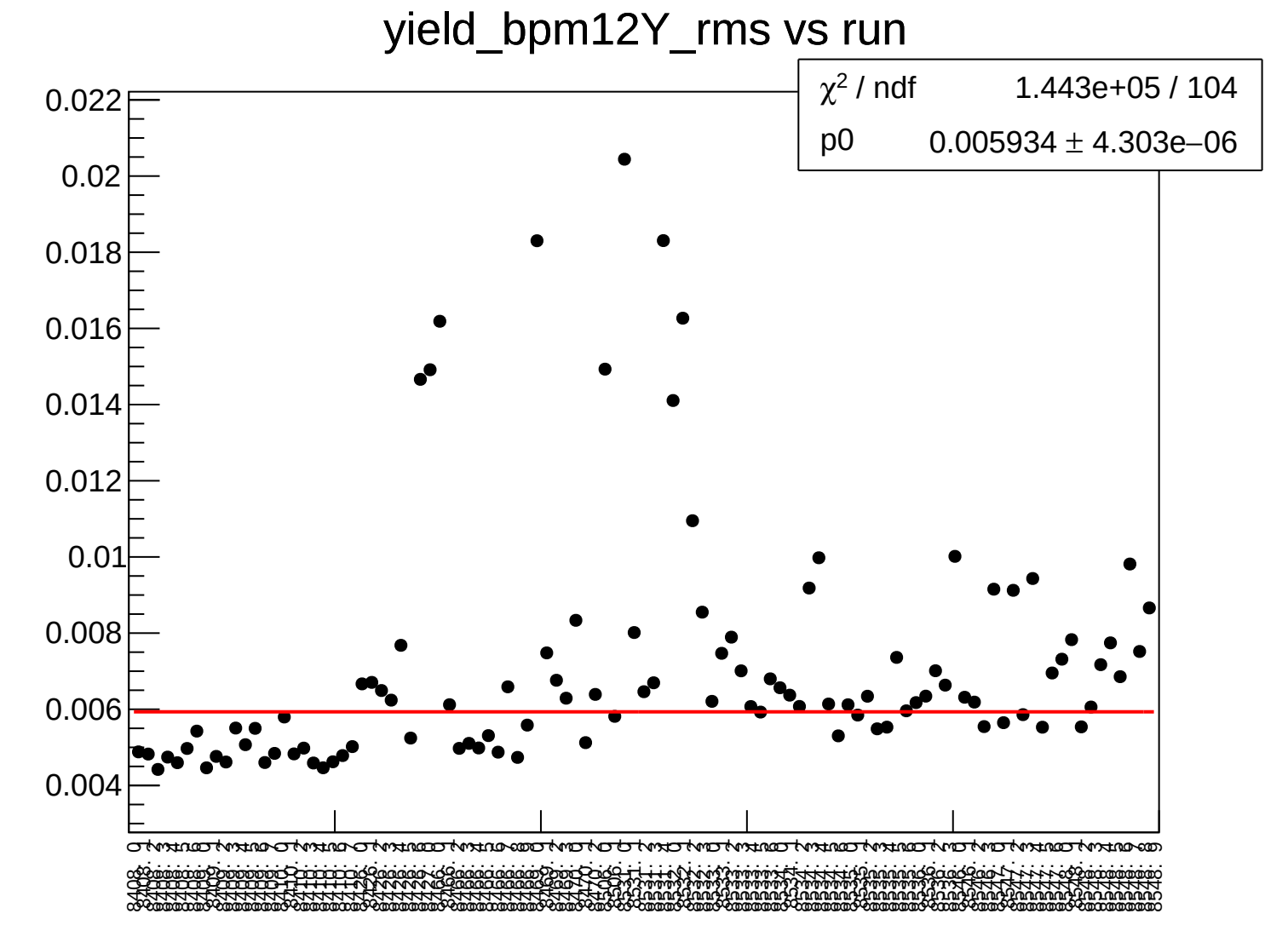

yield_bpm12X_mean vs run
χ² / ndf 2.096e+07 / 104
p0 −0.4965 ± 6.99e−05
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull
Entries 105
Mean 573.2
Std Dev 0
600
400
200
0
−200
−400
−600
−800
−1000
−1200

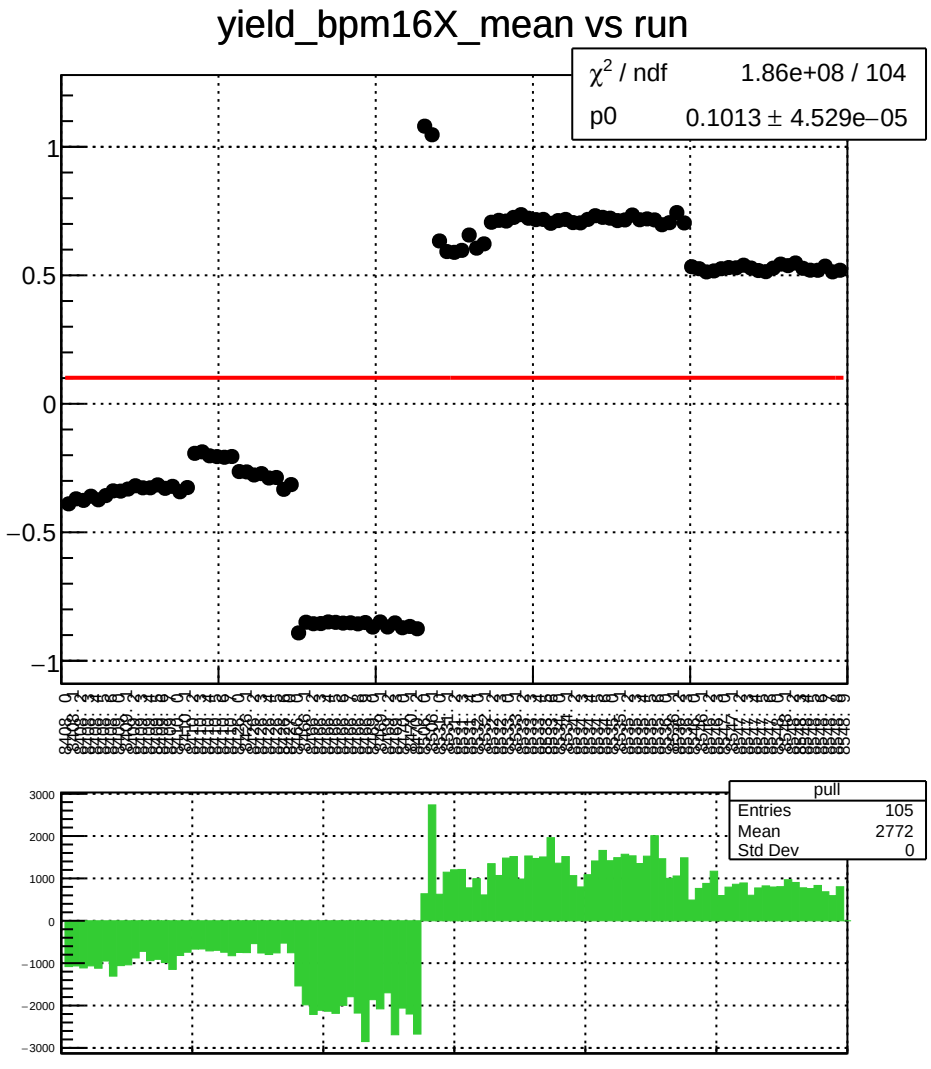

pull1D
Entries 105
Mean −1.103
Std Dev 6.638
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

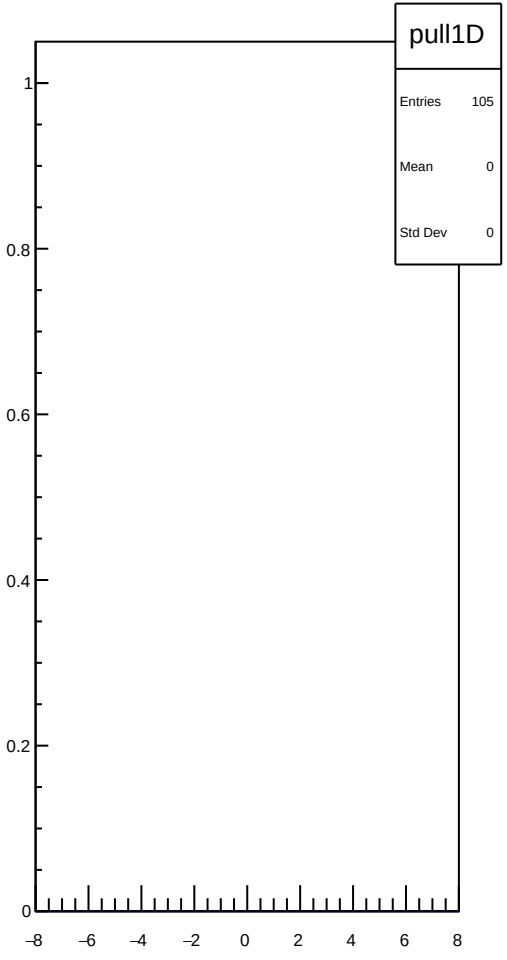

yield_bpm12X_rms vs run
χ² / ndf 1.119e+05 / 104
p0 0.06874 ± 4.943e–05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04

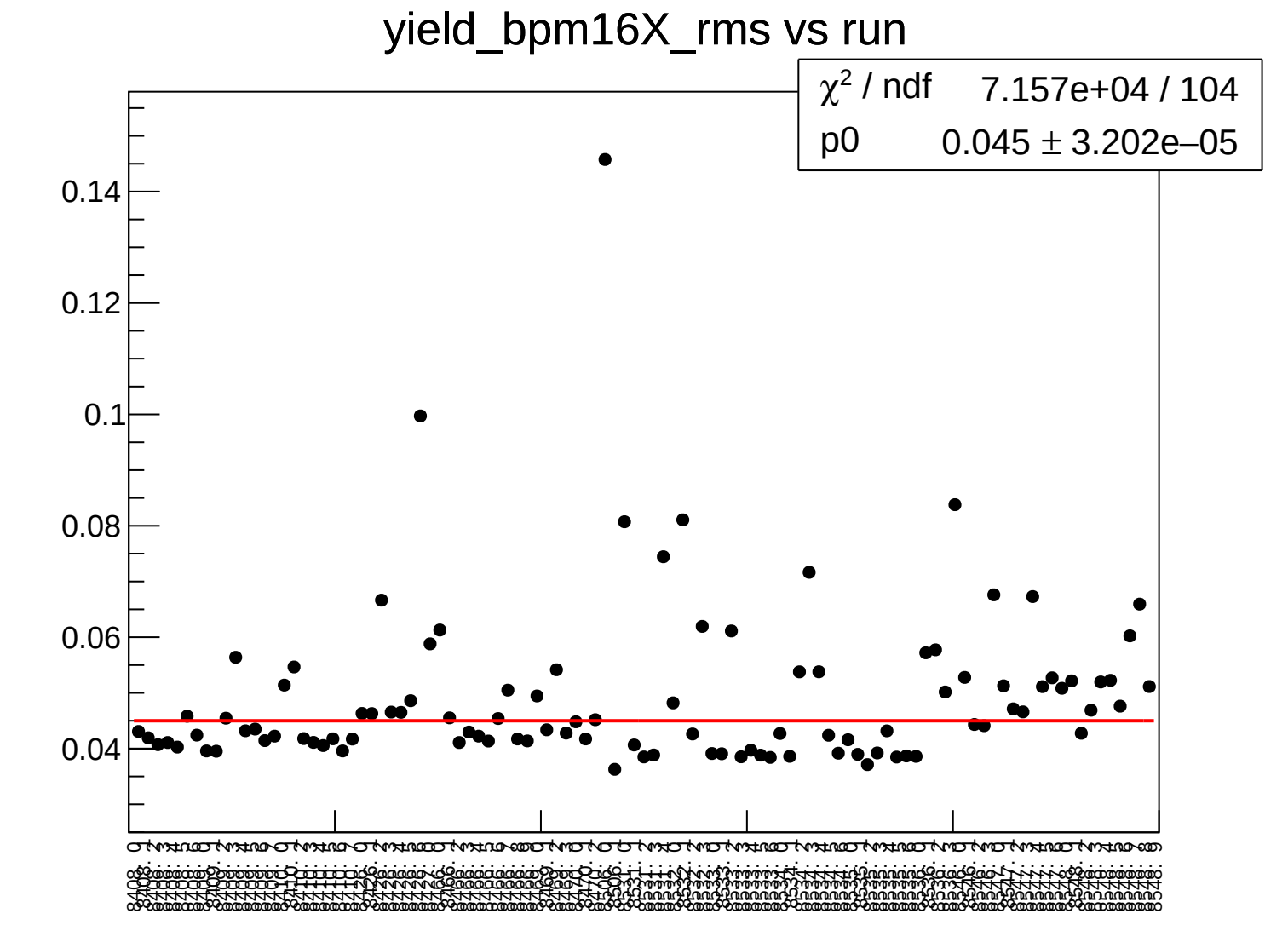

yield_bpm12Y_mean vs run
χ² / ndf 4.437e+09 / 104
p0 1.734 ± 6.085e−06
2
1.8
1.6
1.4
1.2
1
0.8
pull
Entries 105
Mean 342.1
Std Dev 0
5000
0
−5000
−10000
−15000
−20000

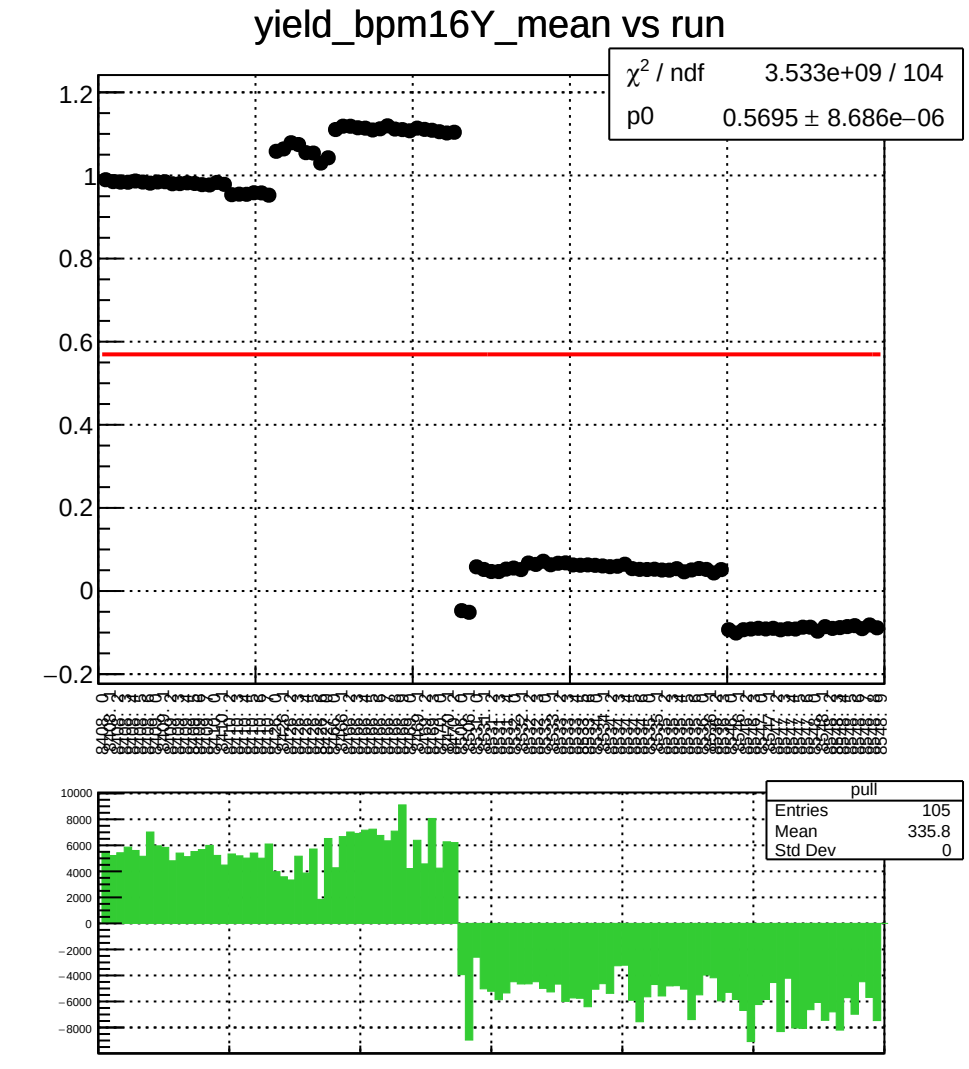

pull1D
Entries 105
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

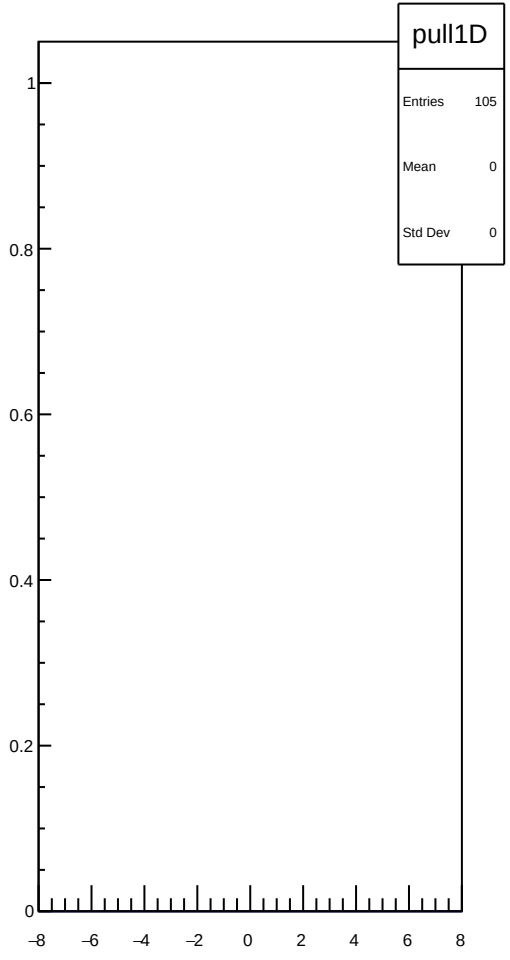

yield_bpm12Y_rms vs run
χ² / ndf 1.443e+05 / 104
p0 0.005934 ± 4.303e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

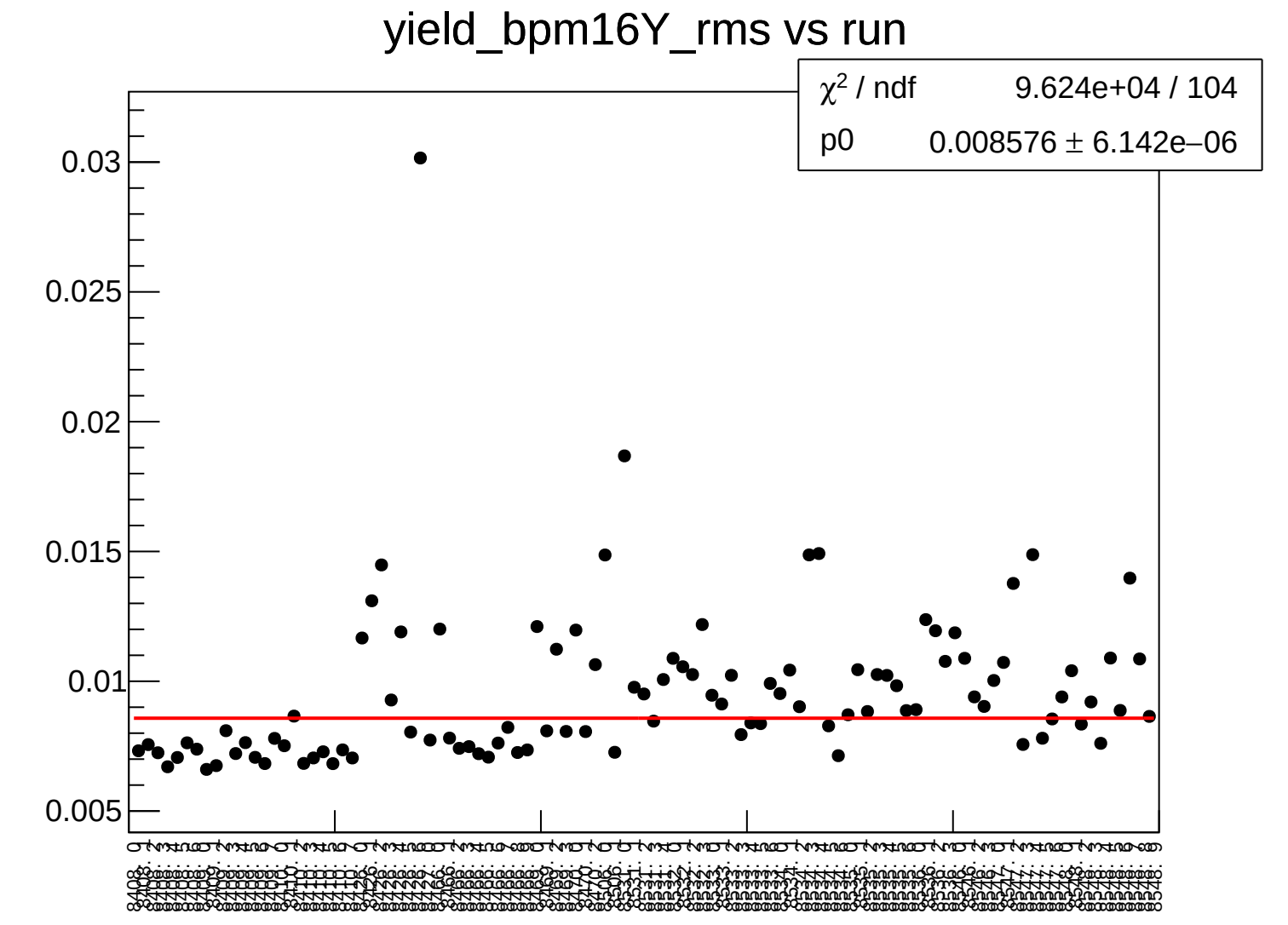

yield_bpm16X_mean vs run
χ² / ndf 1.86e+08 / 104
p0 0.1013 ± 4.529e−05
1
0.5
0
−0.5
−1
pull
Entries 105
Mean 2772
Std Dev 0
3000
2000
1000
0
−1000
−2000
−3000

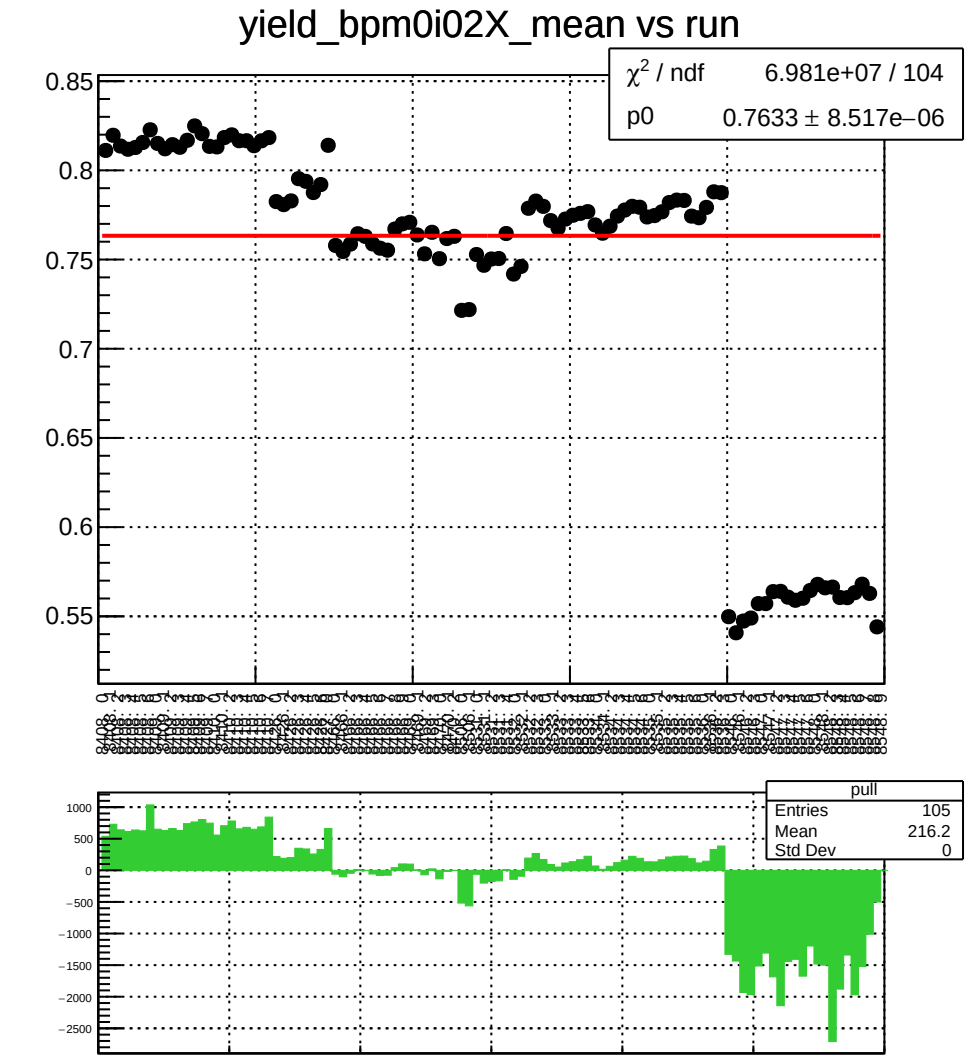

pull1D
Entries 105
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

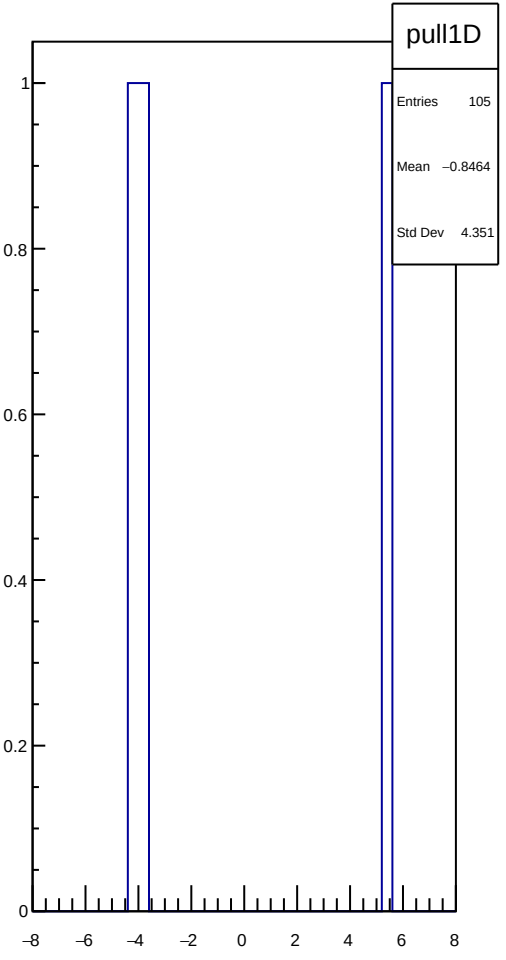

yield_bpm16X_rms vs run
χ² / ndf 7.157e+04 / 104
p0 0.045 ± 3.202e–05
0.14
0.12
0.1
0.08
0.06
0.04

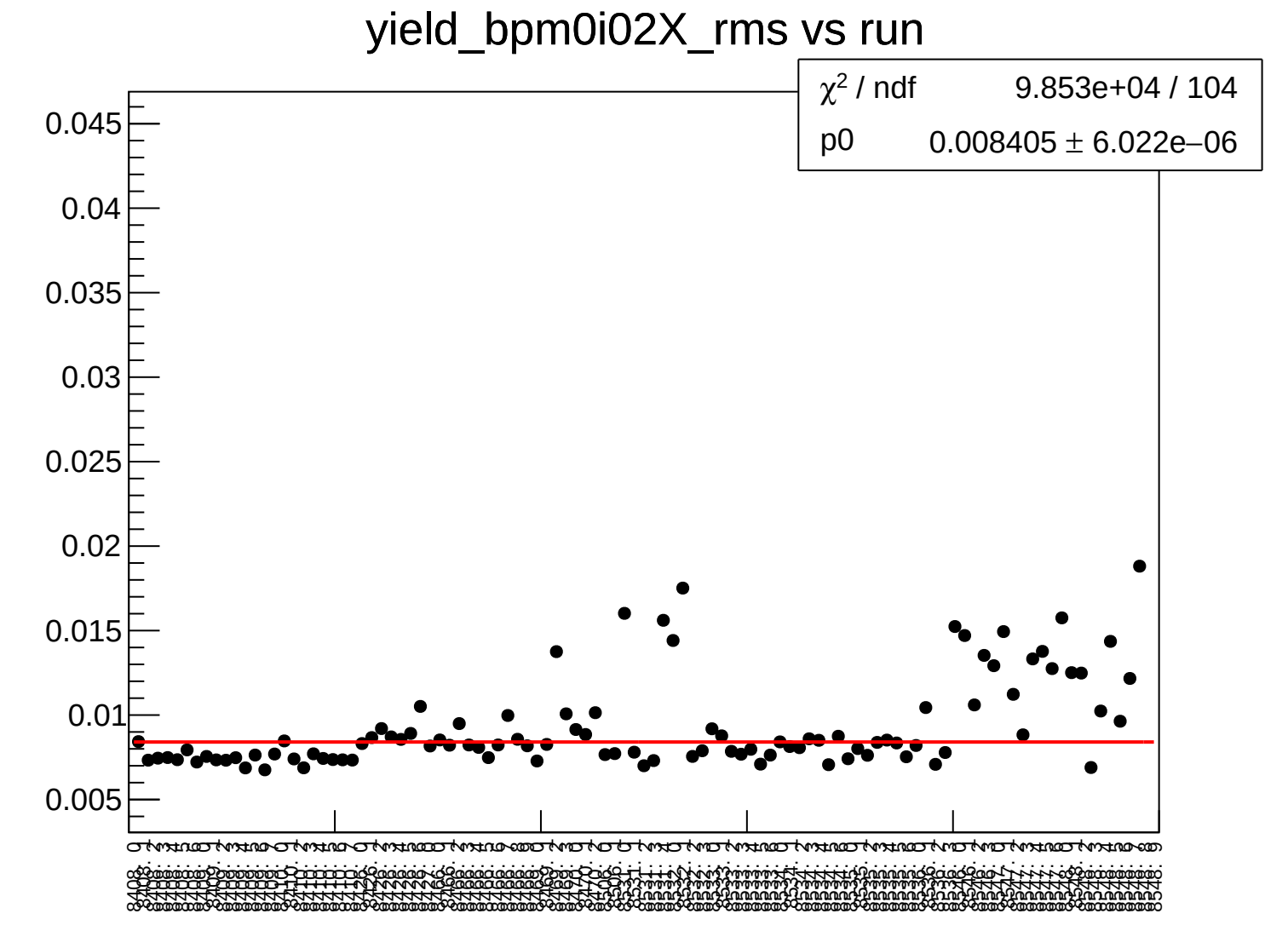

yield_bpm16Y_mean vs run
χ² / ndf 3.533e+09 / 104
p0 0.5695 ± 8.686e−06
pull
Entries 105
Mean 335.8
Std Dev 0

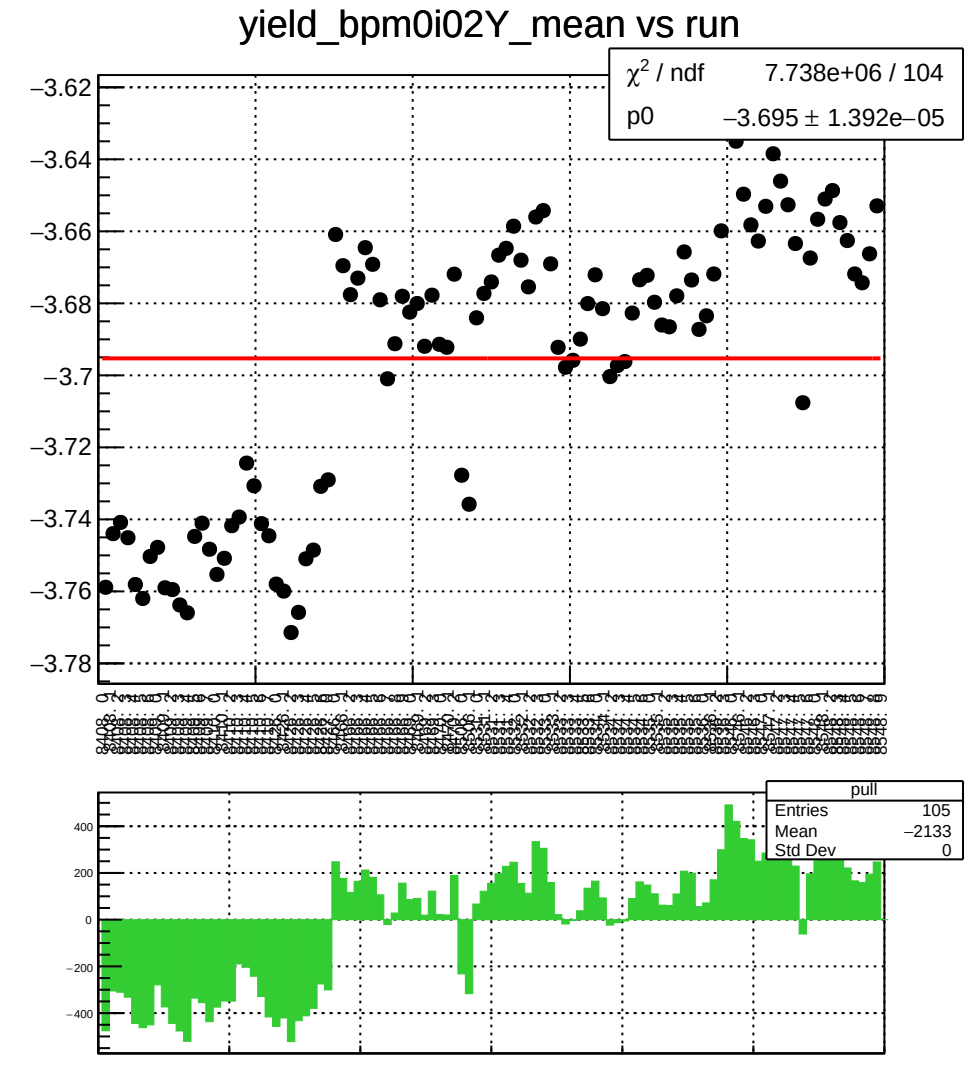

pull1D
Entries 105
Mean 0
Std Dev 0

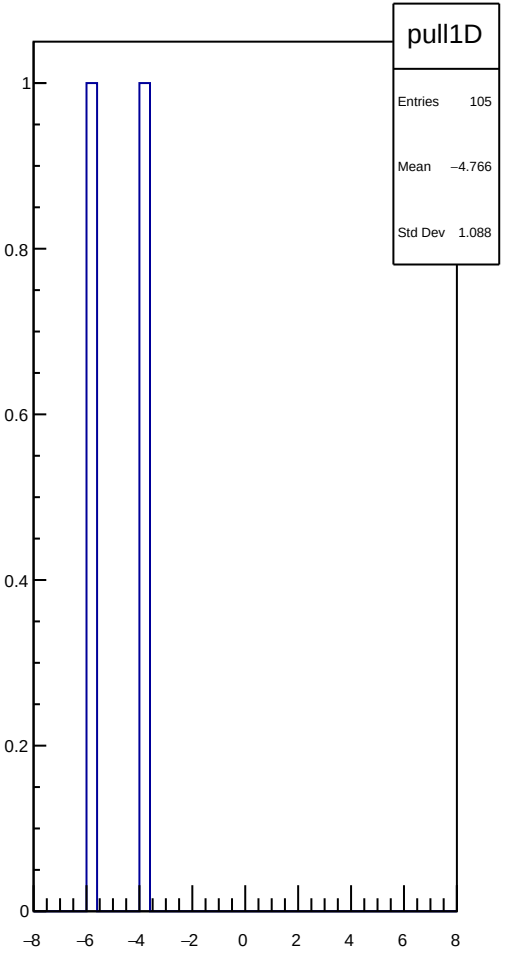

yield_bpm16Y_rms vs run
χ^2 / ndf 9.624e+04 / 104
p0 0.008576 ± 6.142e−06
0.03
0.025
0.02
0.015
0.01
0.005

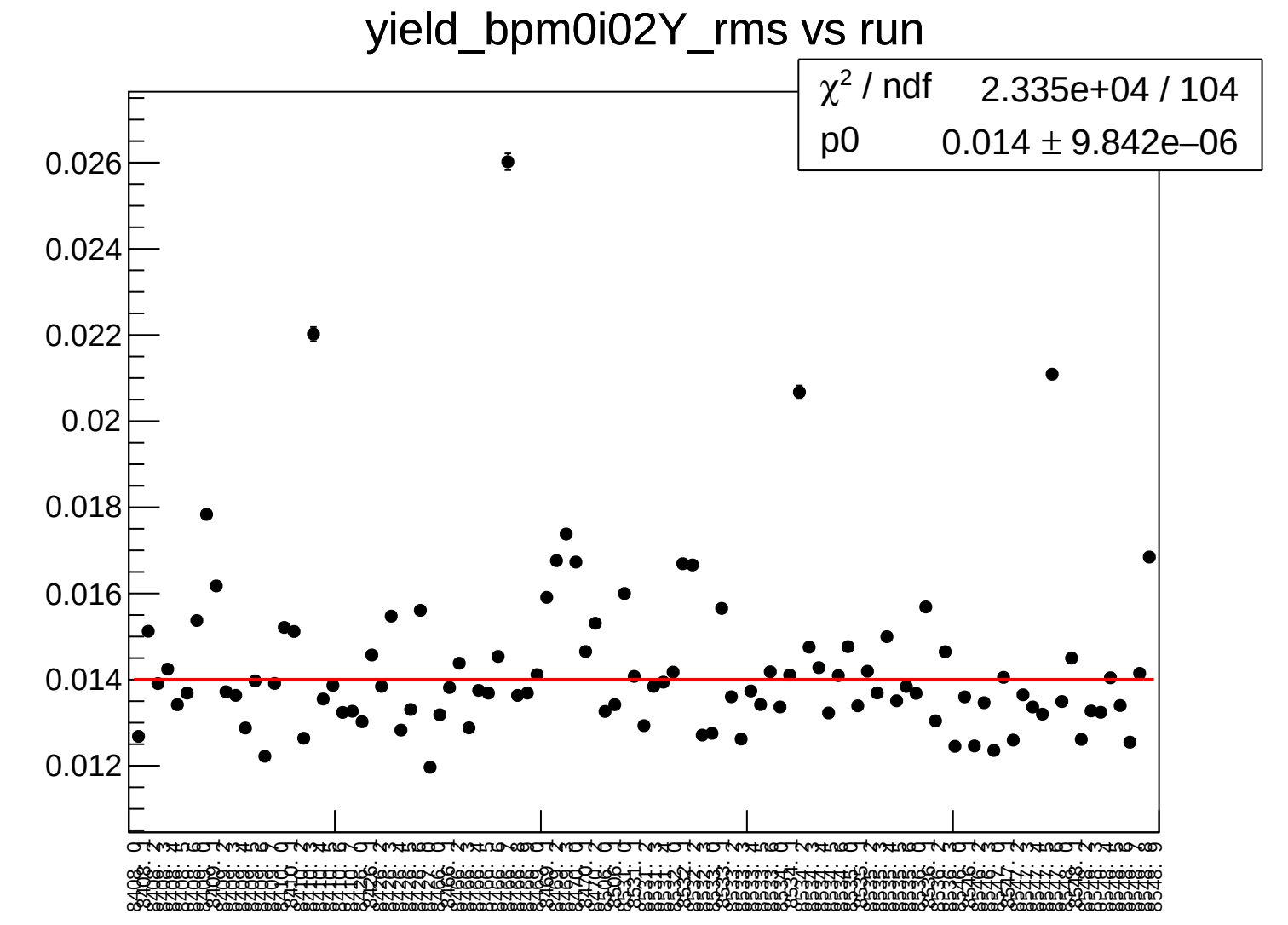

yield_bpm0i02X_mean vs run
χ² / ndf 6.981e+07 / 104
p0 0.7633 ± 8.517e−06
0.85
0.8
0.75
0.7
0.65
0.6
0.55
pull
Entries 105
Mean 216.2
Std Dev 0
1000
500
0
−500
−1000
−1500
−2000
−2500

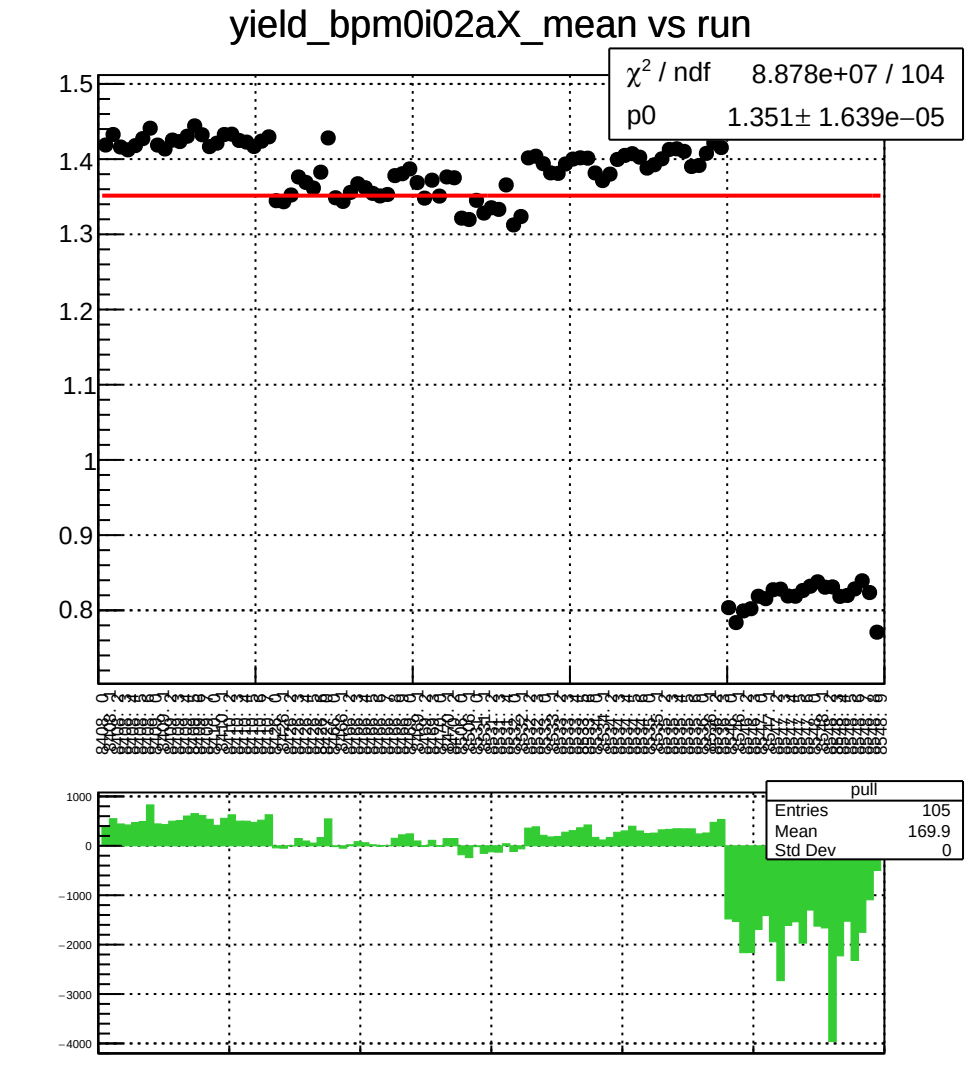

pull1D
Entries 105
Mean −0.8464
Std Dev 4.351
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

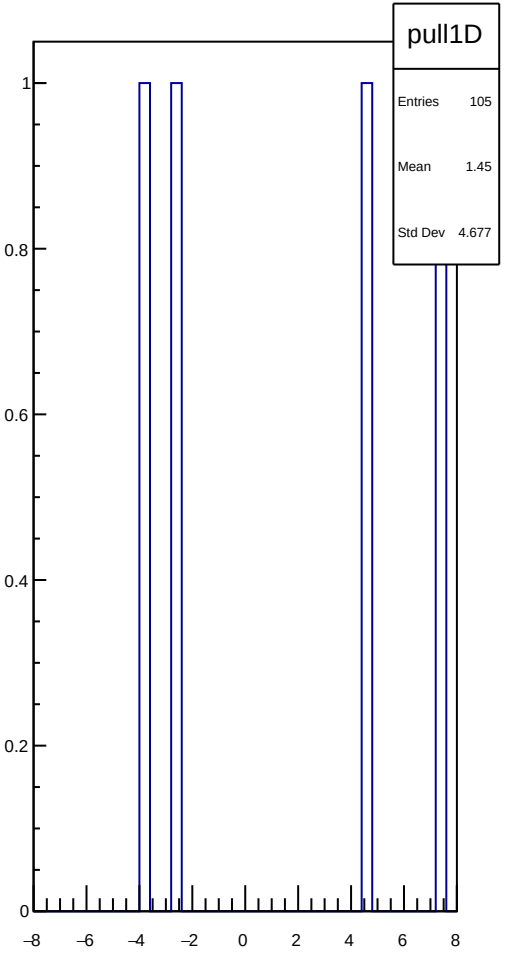

yield_bpm0i02X_rms vs run
χ^2 / ndf 9.853e+04 / 104
p0 0.008405 ± 6.022e−06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

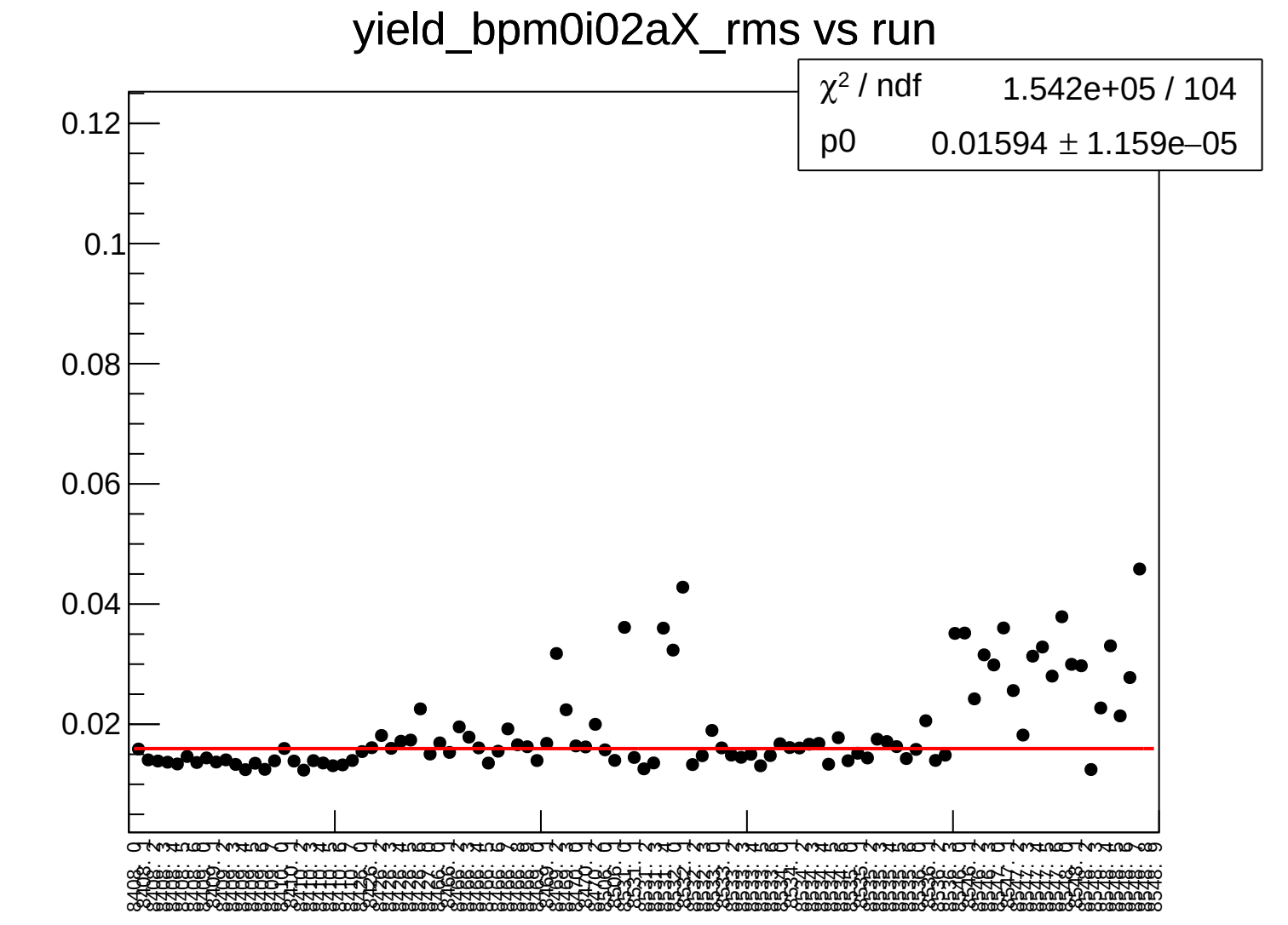

yield_bpm0i02Y_mean vs run
χ² / ndf 7.738e+06 / 104
p0 −3.695 ± 1.392e−05
−3.62
−3.64
−3.66
−3.68
−3.7
−3.72
−3.74
−3.76
−3.78
pull
Entries 105
Mean −2133
Std Dev 0
400
200
0
−200
−400

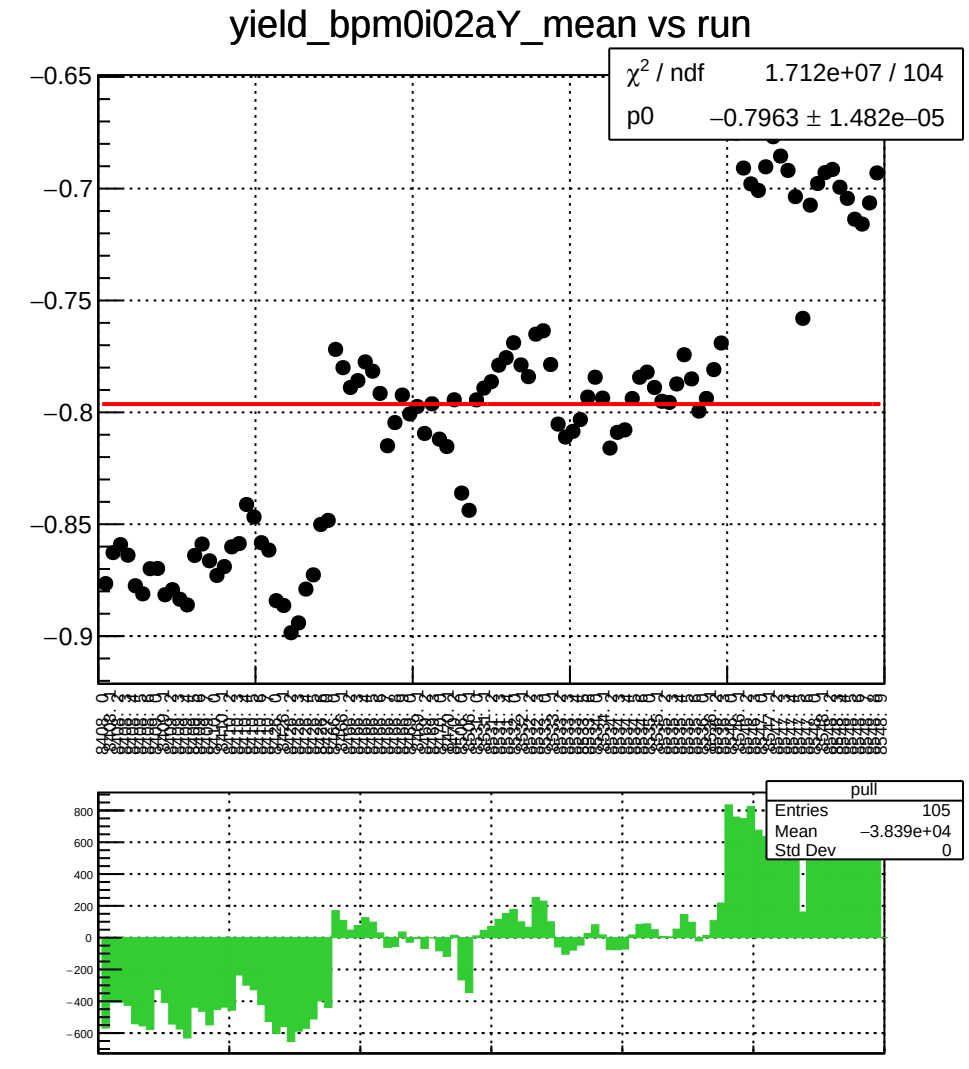

pull1D
Entries 105
Mean −4.766
Std Dev 1.088
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

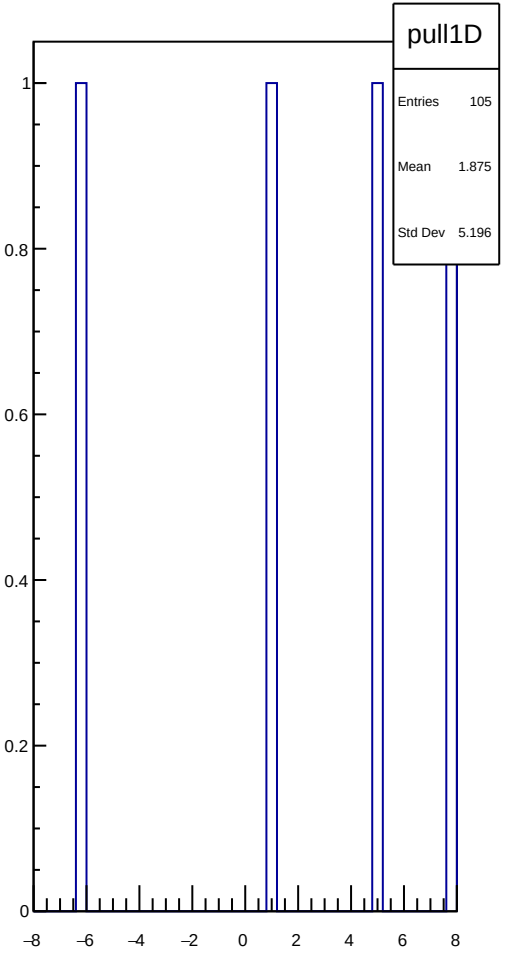

yield_bpm0i02Y_rms vs run
χ² / ndf 2.335e+04 / 104
p0 0.014 ± 9.842e−06
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012

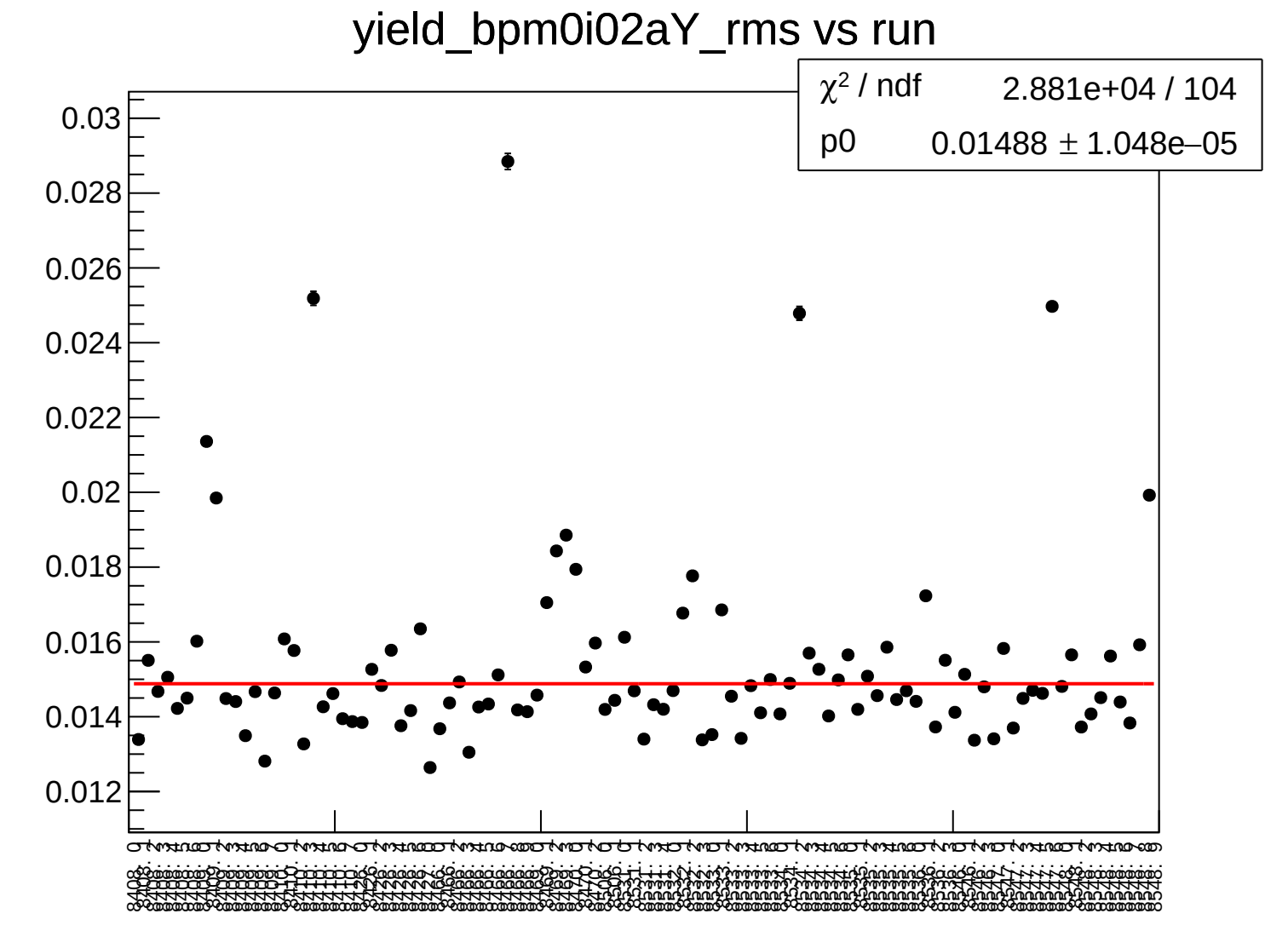

yield_bpm0i02aX_mean vs run
χ² / ndf 8.878e+07 / 104
p0 1.351± 1.639e−05
1.5
1.4
1.3
1.2
1.1
1
0.9
0.8
pull
Entries 105
Mean 169.9
Std Dev 0
1000
0
−1000
−2000
−3000
−4000

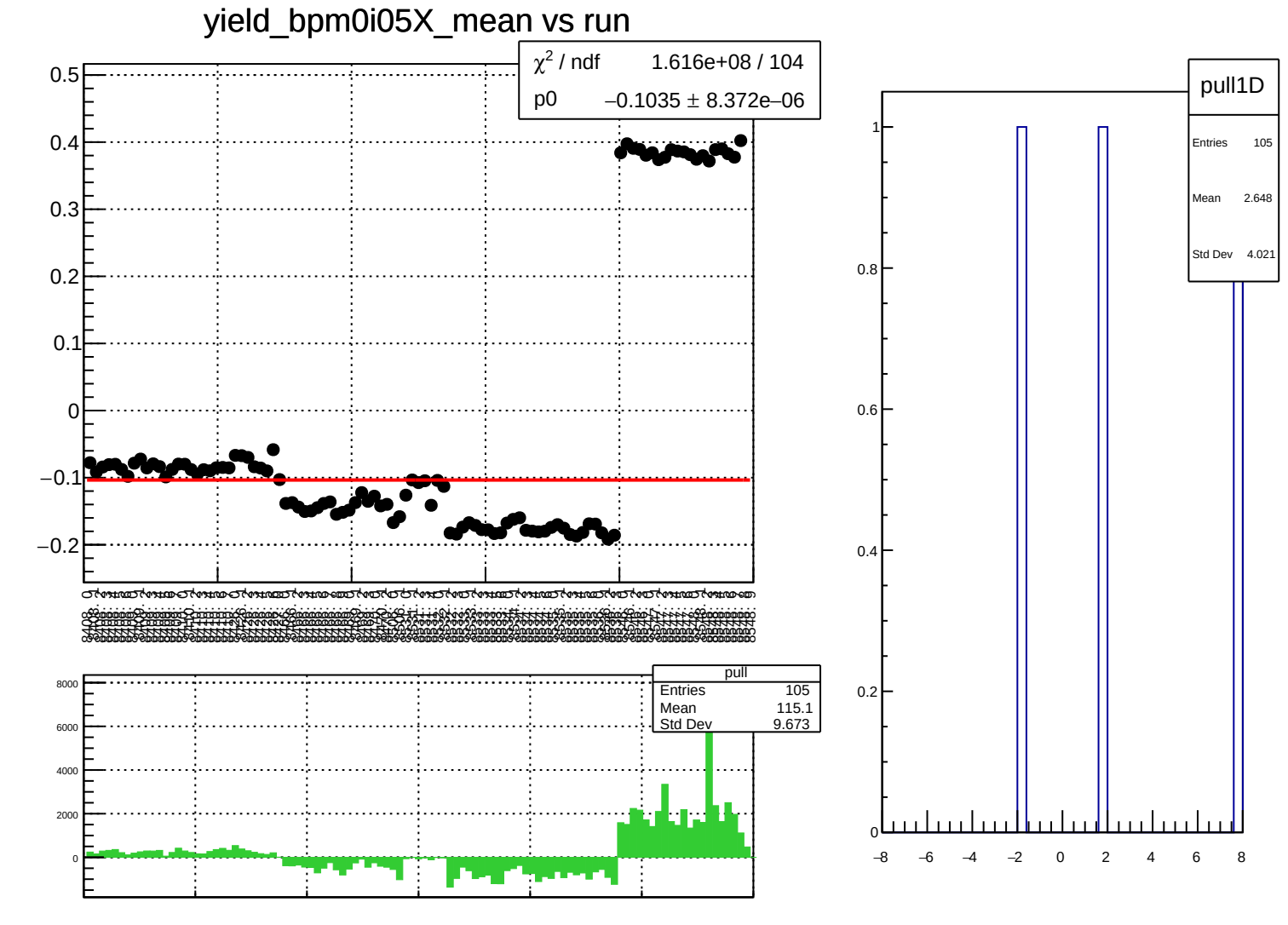

pull1D
Entries 105
Mean 1.45
Std Dev 4.677
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

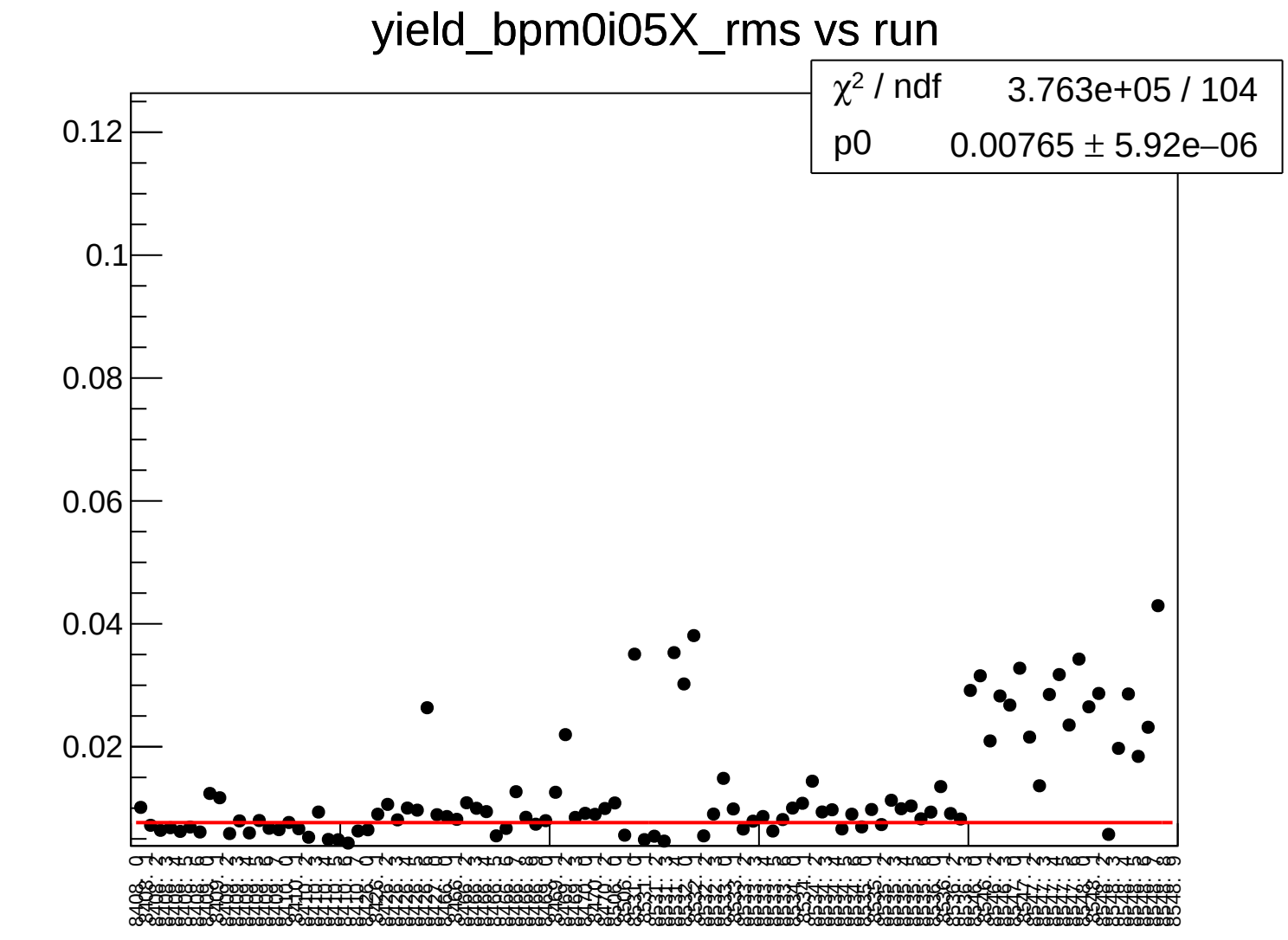

yield_bpm0i02aX_rms vs run
χ² / ndf 1.542e+05 / 104
p0 0.01594 ± 1.159e–05
0.12
0.1
0.08
0.06
0.04
0.02

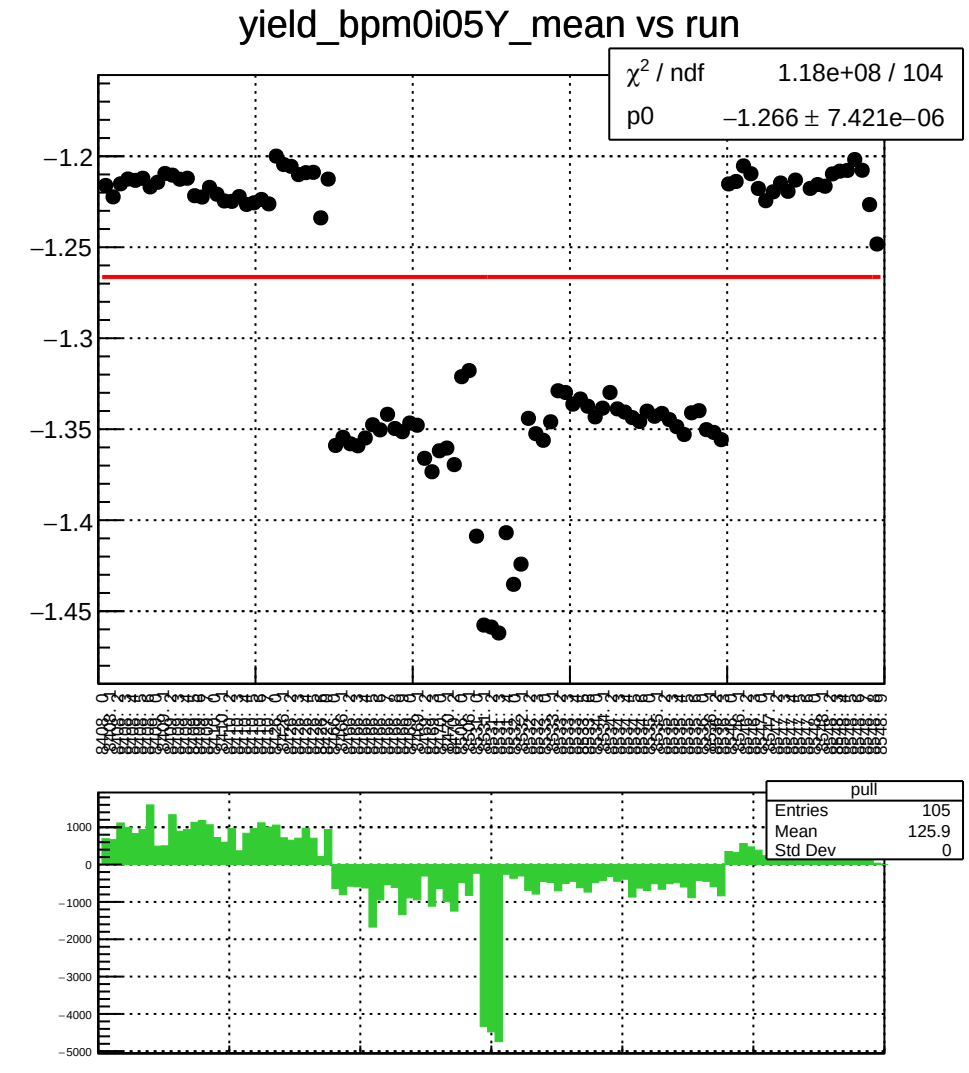

yield_bpm0i02aY_mean vs run
χ² / ndf 1.712e+07 / 104
p0 −0.7963 ± 1.482e−05
−0.65
−0.7
−0.75
−0.8
−0.85
−0.9
pull
Entries 105
Mean −3.839e+04
Std Dev 0
800
600
400
200
0
−200
−400
−600

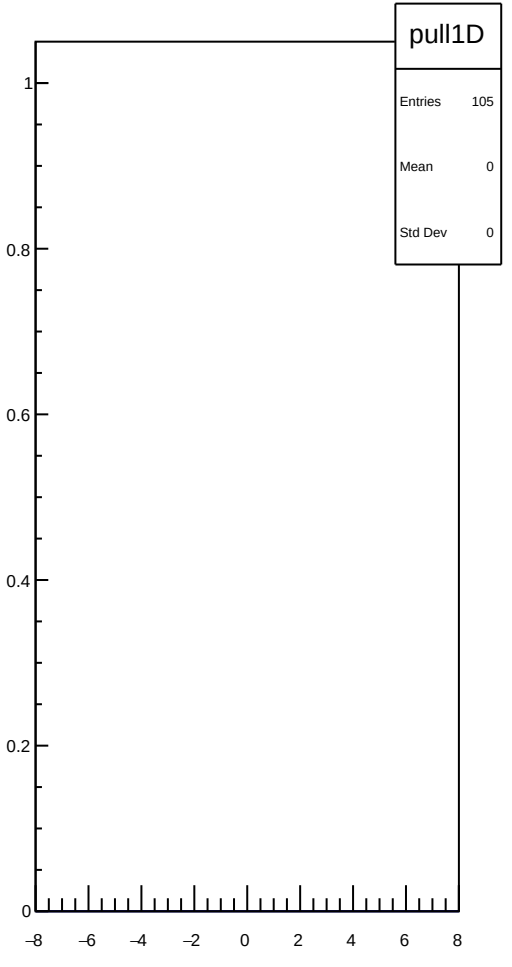

pull1D
Entries 105
Mean 1.875
Std Dev 5.196
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

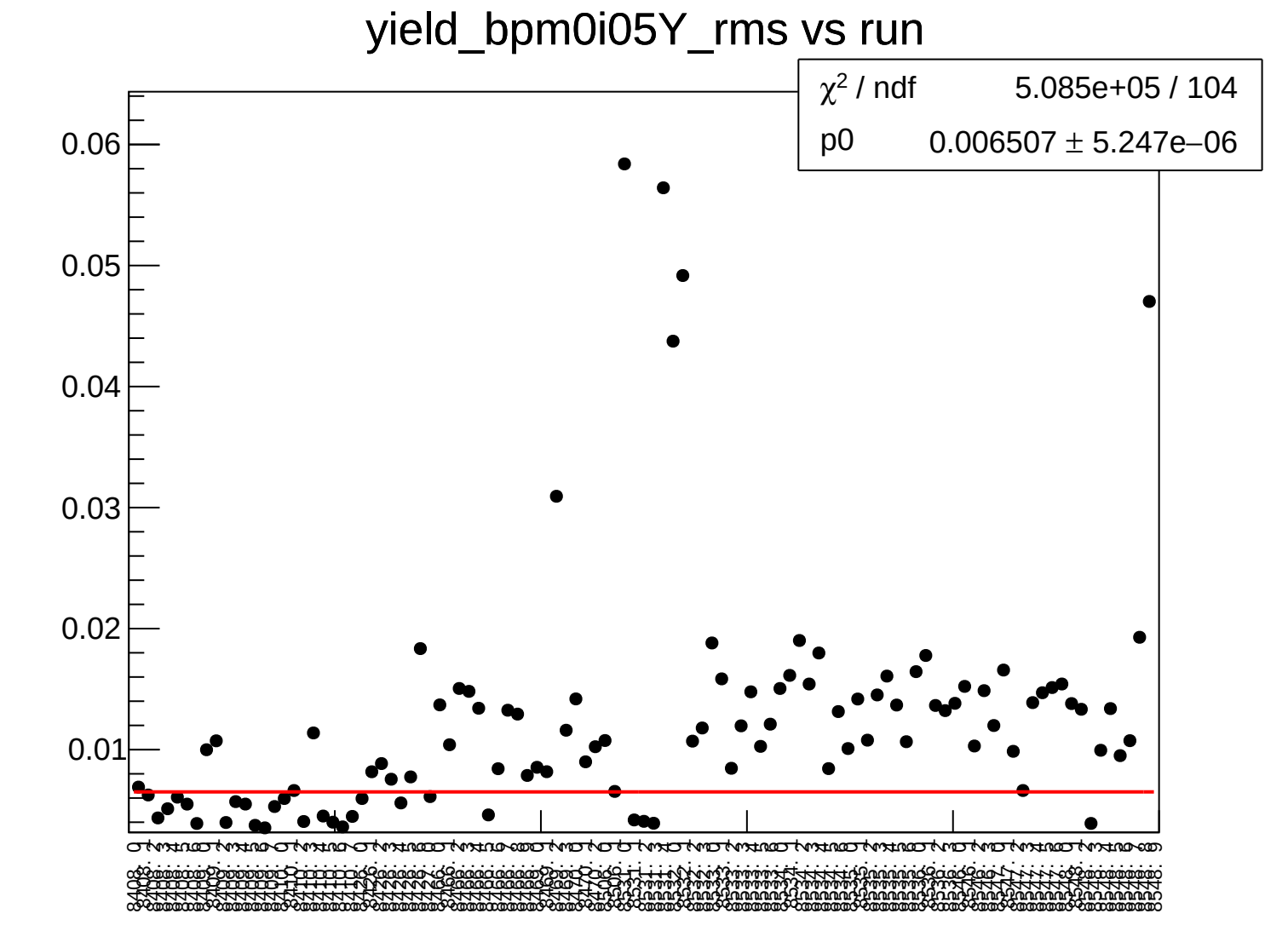

yield_bpm0i02aY_rms vs run
χ² / ndf 2.881e+04 / 104
p0 0.01488 ± 1.048e−05
0.03
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012

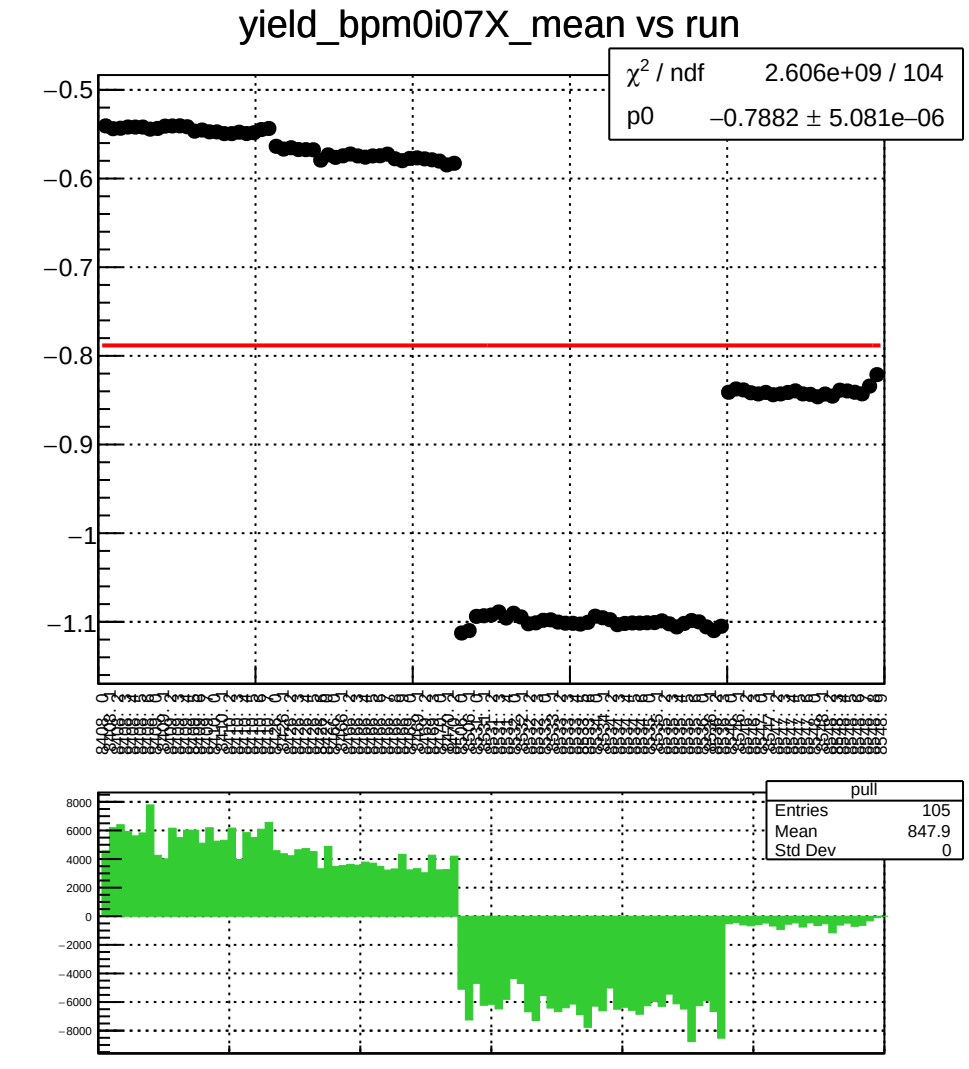

yield_bpm0i05X_mean vs run
χ² / ndf 1.616e+08 / 104
p0 −0.1035 ± 8.372e−06
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
pull
Entries 105
Mean 115.1
Std Dev 9.673
8000
6000
4000
2000
0
pull1D
Entries 105
Mean 2.648
Std Dev 4.021
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

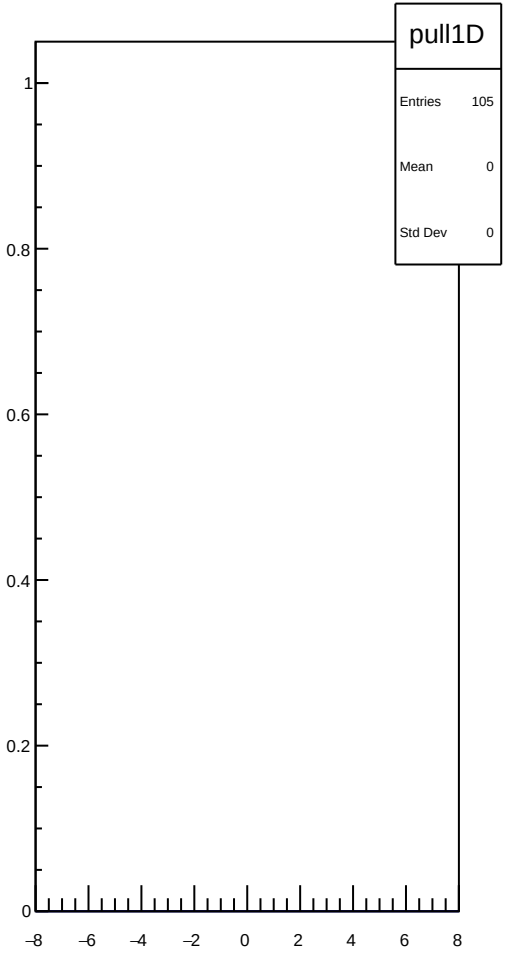

yield_bpm0i05X_rms vs run
χ² / ndf 3.763e+05 / 104
p0 0.00765 ± 5.92e−06
0.12
0.1
0.08
0.06
0.04
0.02

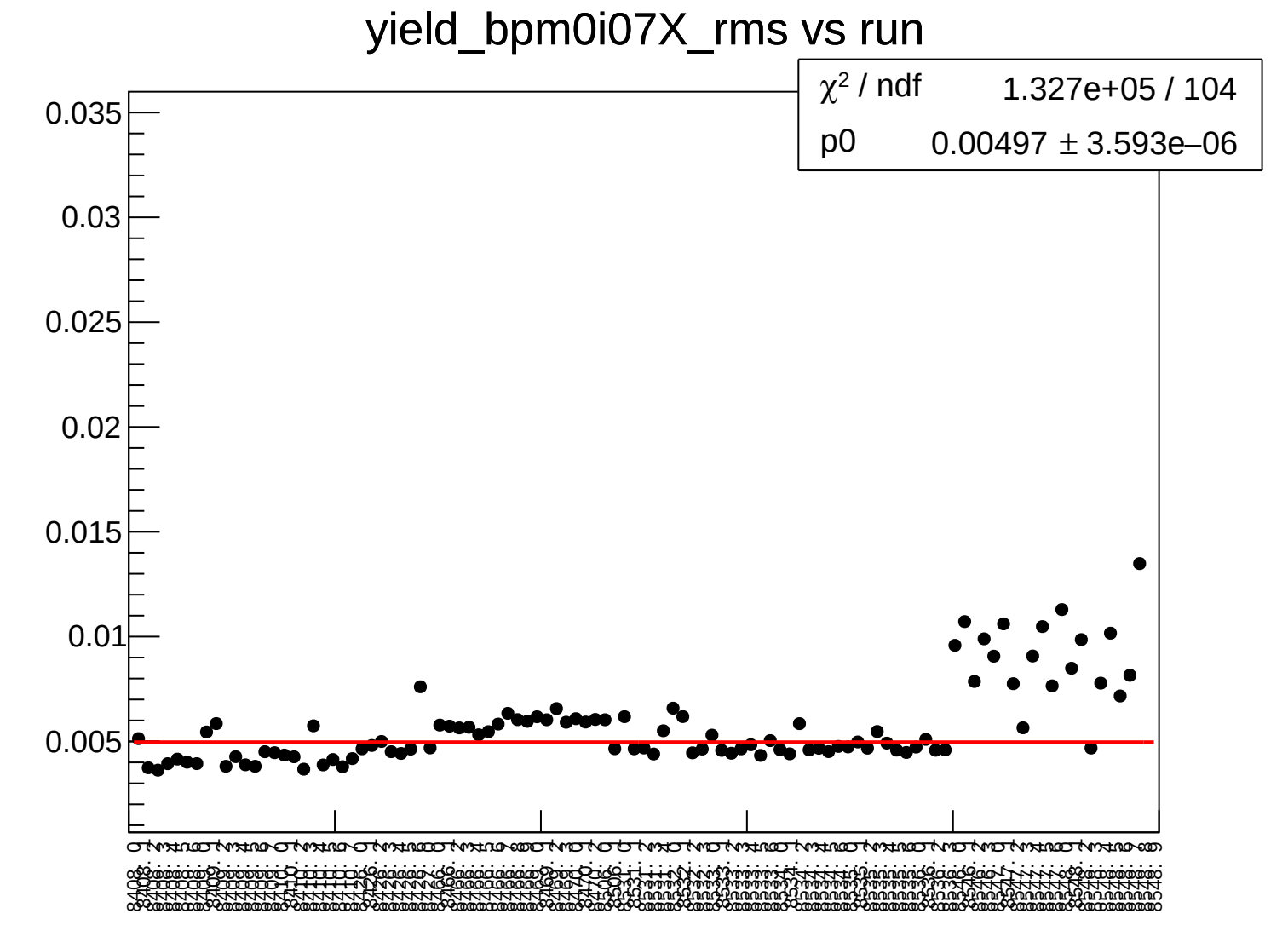

yield_bpm0i05Y_mean vs run
χ² / ndf 1.18e+08 / 104
p0 −1.266 ± 7.421e−06
−1.2
−1.25
−1.3
−1.35
−1.4
−1.45
pull
Entries 105
Mean 125.9
Std Dev 0
1000
0
−1000
−2000
−3000
−4000
−5000

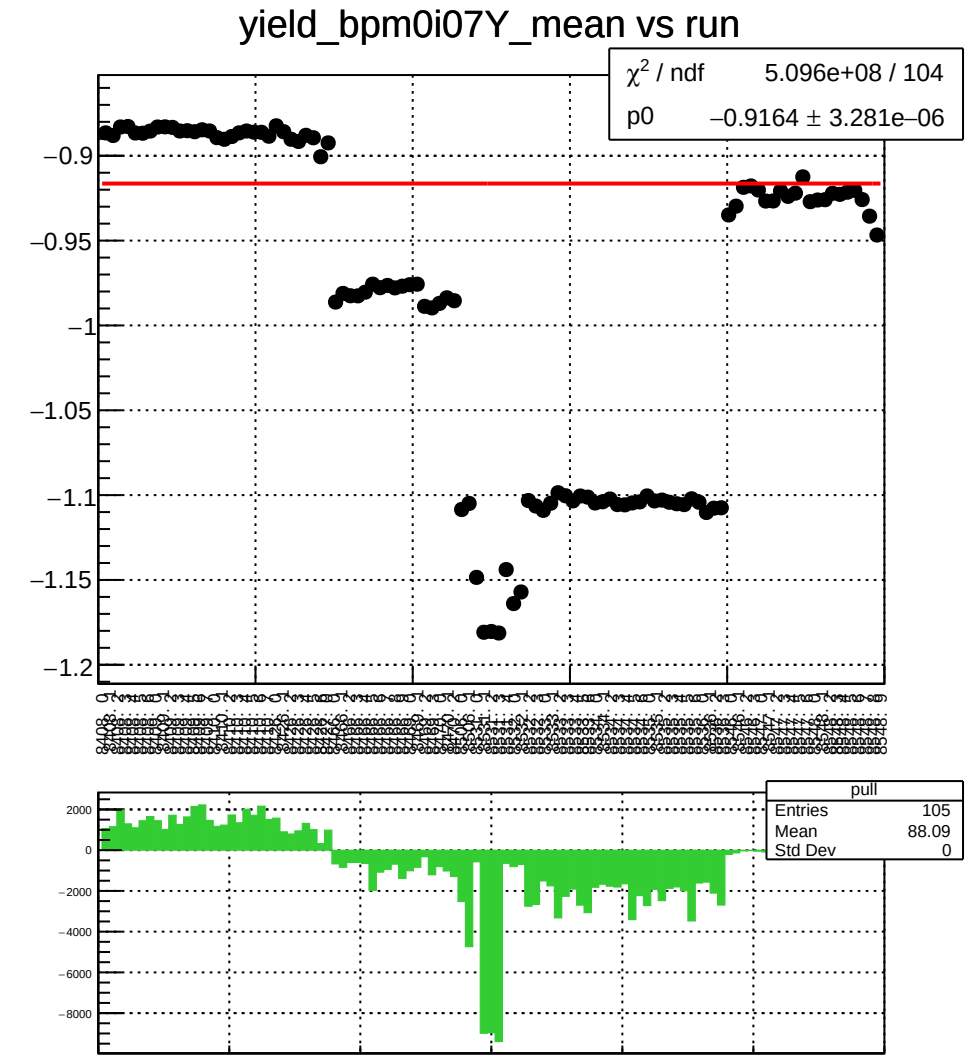

pull1D
Entries 105
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

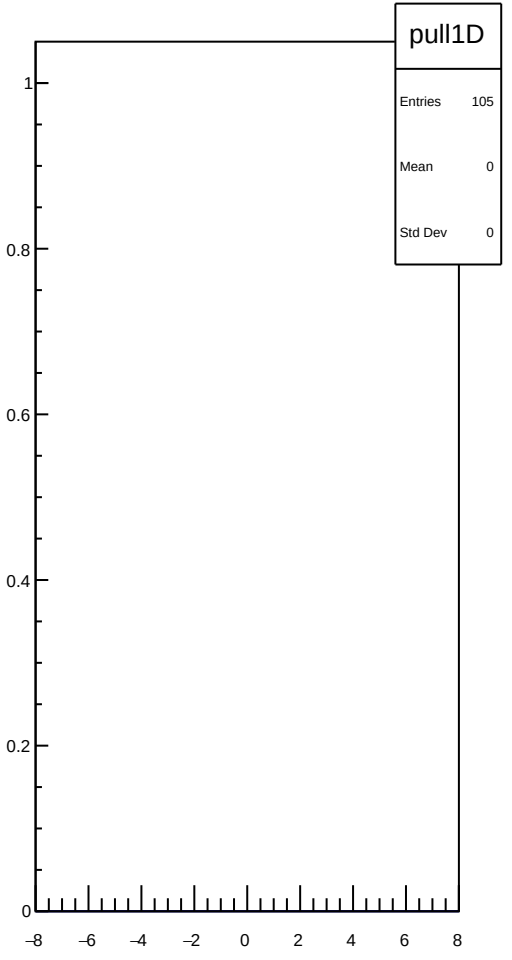

yield_bpm0i05Y_rms vs run
χ² / ndf 5.085e+05 / 104
p0 0.006507 ± 5.247e−06
0.06
0.05
0.04
0.03
0.02
0.01

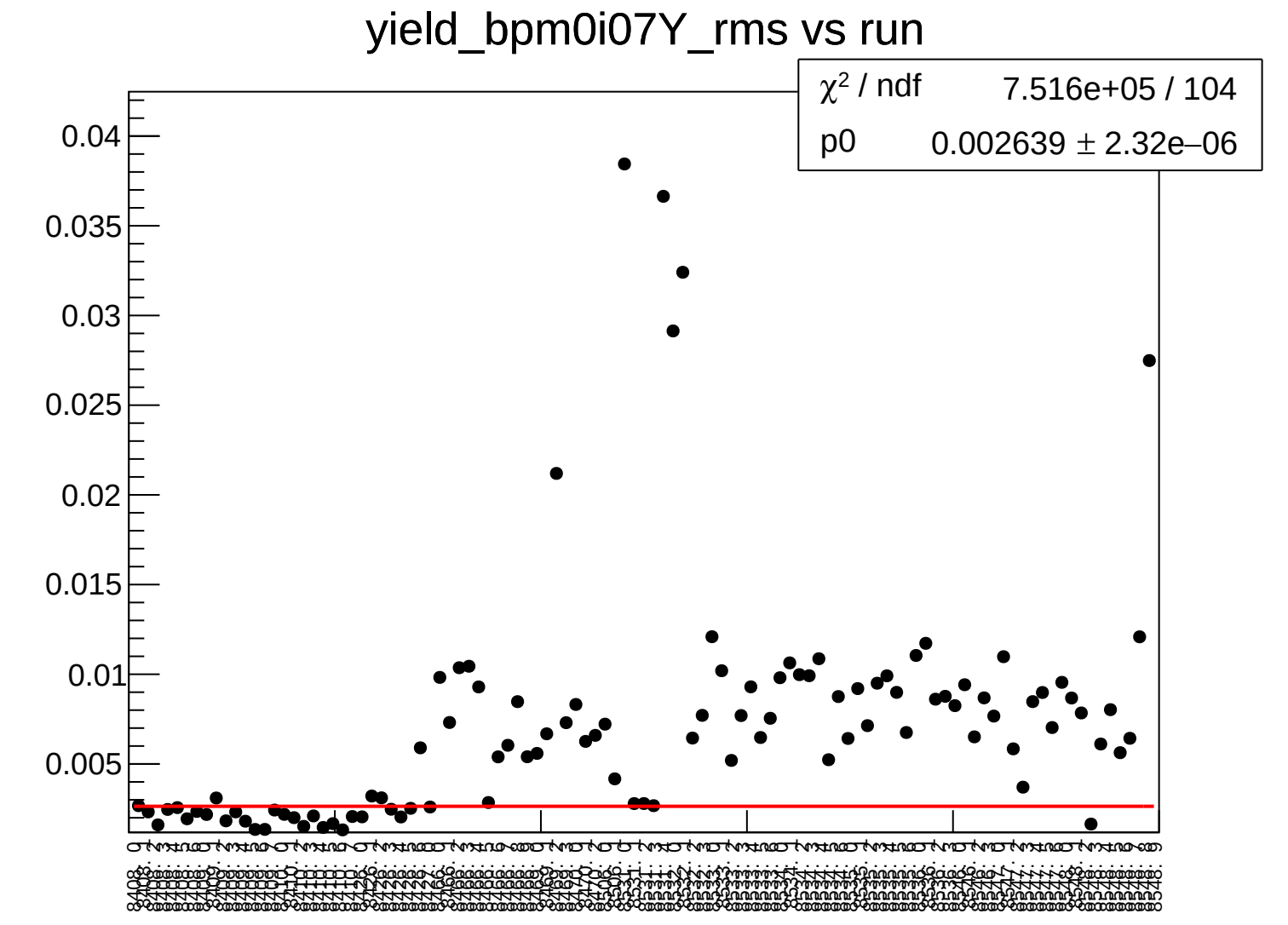

yield_bpm0i07X_mean vs run
χ² / ndf 2.606e+09 / 104
p0 −0.7882 ± 5.081e−06
−0.5
−0.6
−0.7
−0.8
−0.9
−1
−1.1
pull
Entries 105
Mean 847.9
Std Dev 0
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000

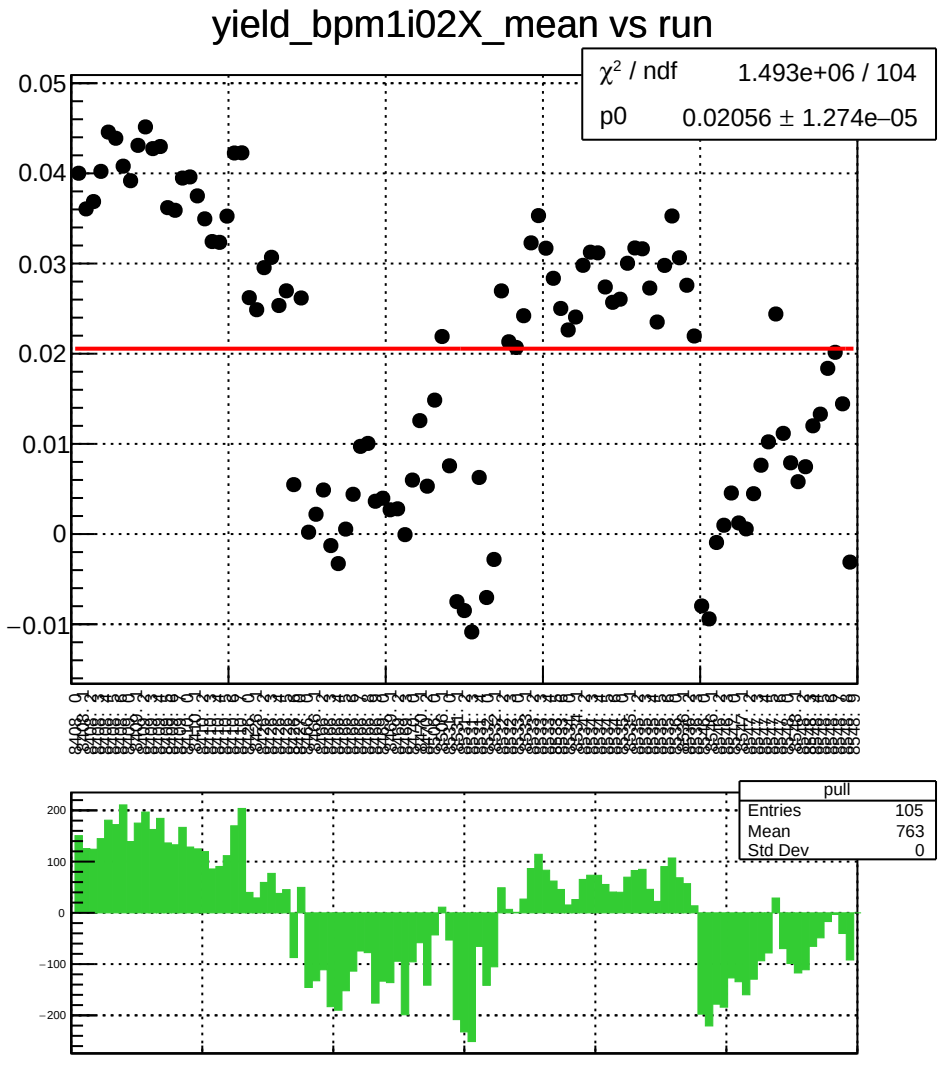

pull1D
Entries 105
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

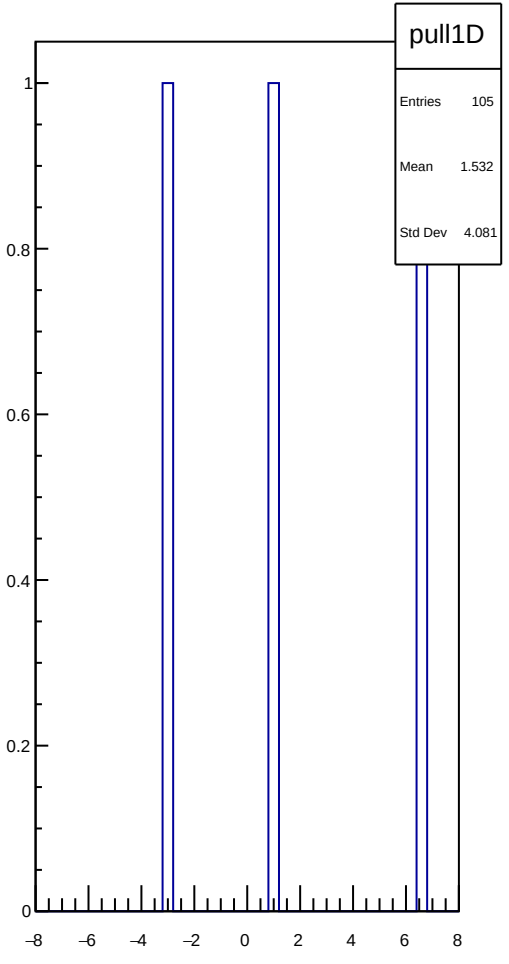

yield_bpm0i07X_rms vs run
χ² / ndf 1.327e+05 / 104
p0 0.00497 ± 3.593e–06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

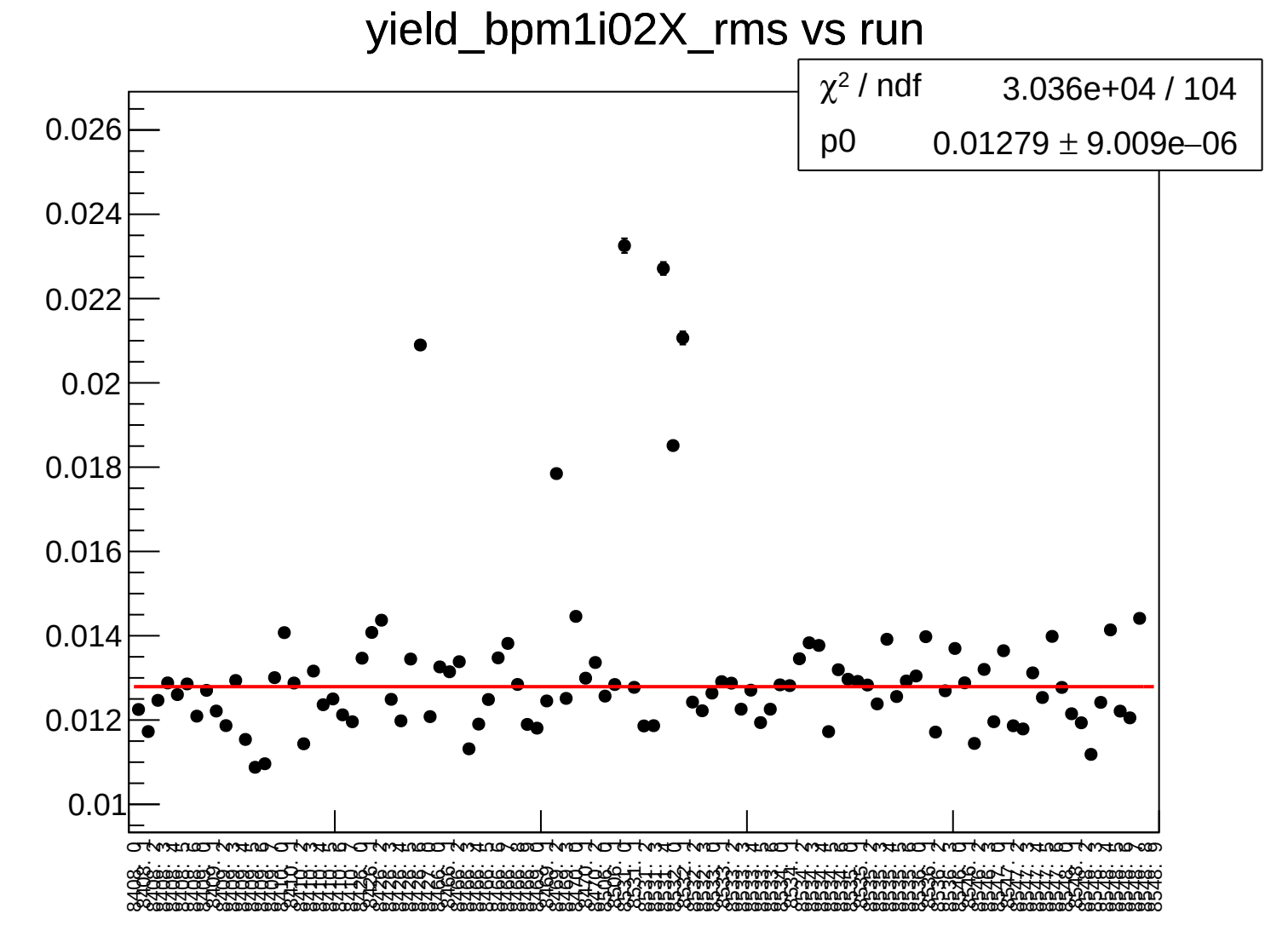

yield_bpm0i07Y_mean vs run
χ² / ndf 5.096e+08 / 104
p0 −0.9164 ± 3.281e−06
−0.9
−0.95
−1
−1.05
−1.1
−1.15
−1.2
pull
Entries 105
Mean 88.09
Std Dev 0
2000
0
−2000
−4000
−6000
−8000

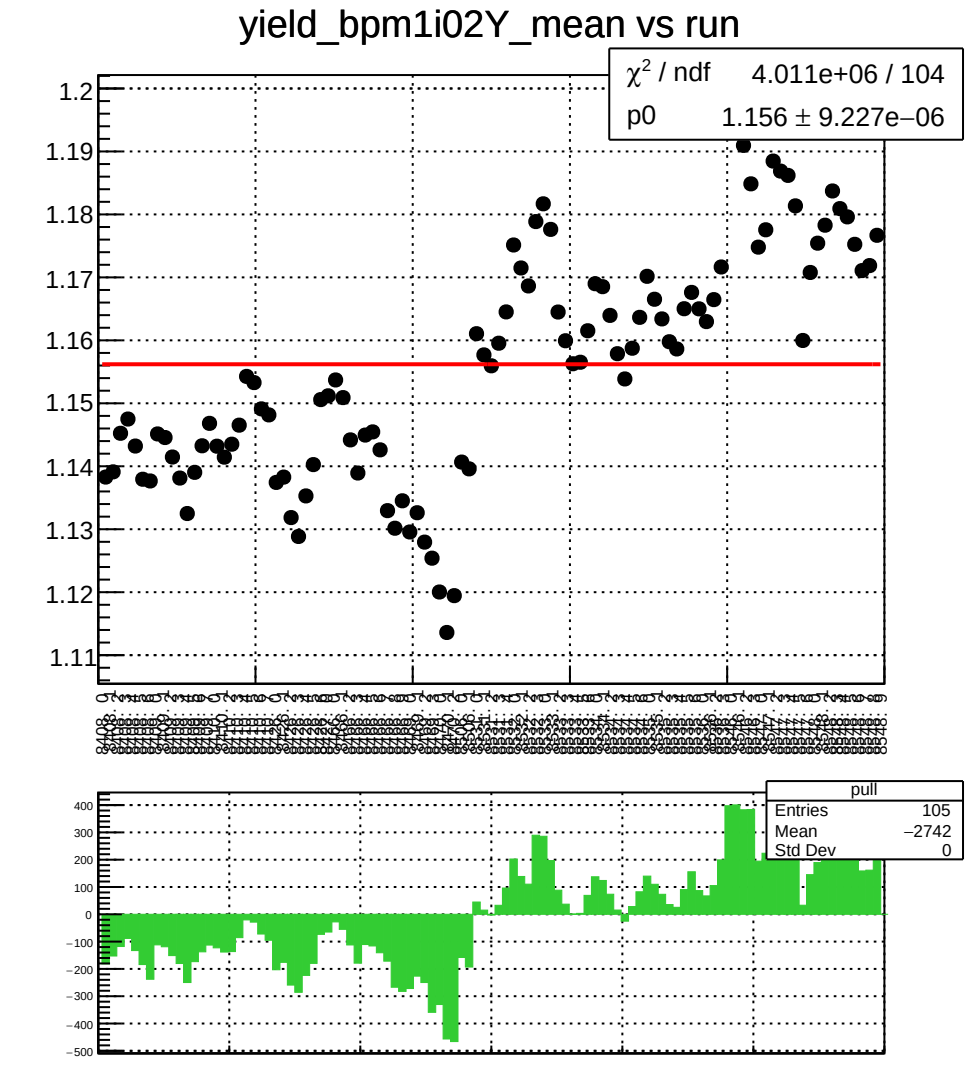

pull1D
Entries 105
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

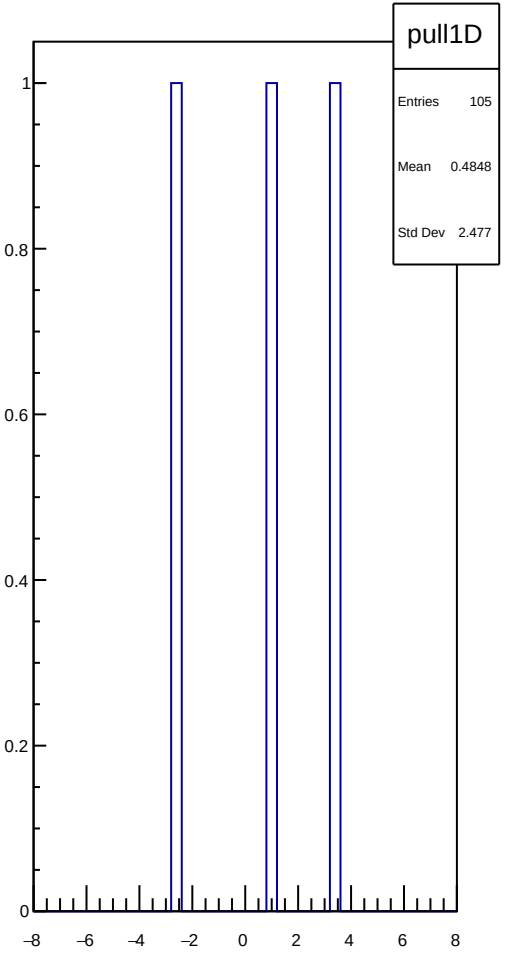

yield_bpm0i07Y_rms vs run
χ² / ndf 7.516e+05 / 104
p0 0.002639 ± 2.32e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

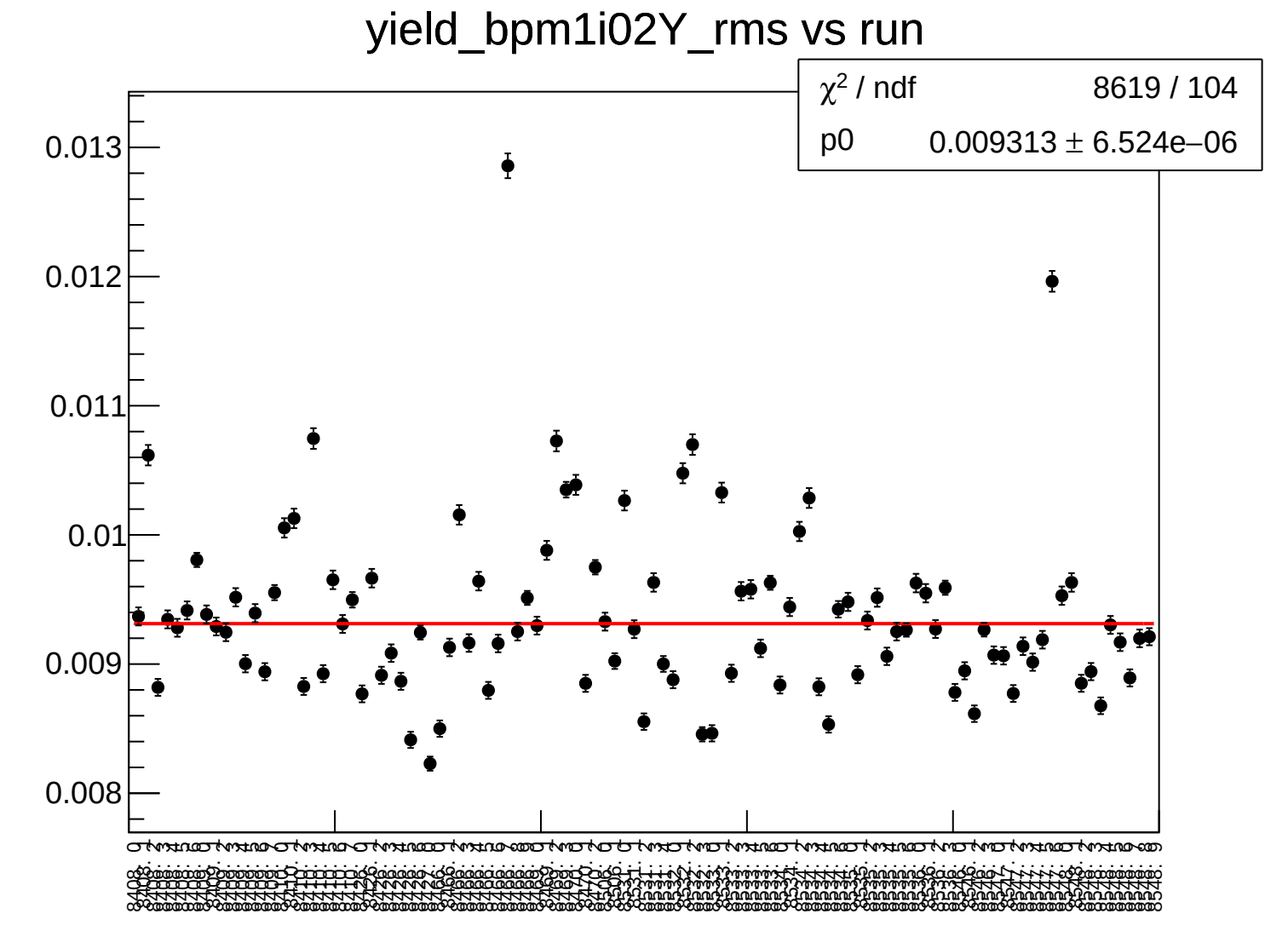

yield_bpm1i02X_mean vs run
χ² / ndf 1.493e+06 / 104
p0 0.02056 ± 1.274e−05
0.05
0.04
0.03
0.02
0.01
0
−0.01
pull
Entries 105
Mean 763
Std Dev 0
200
100
0
−100
−200

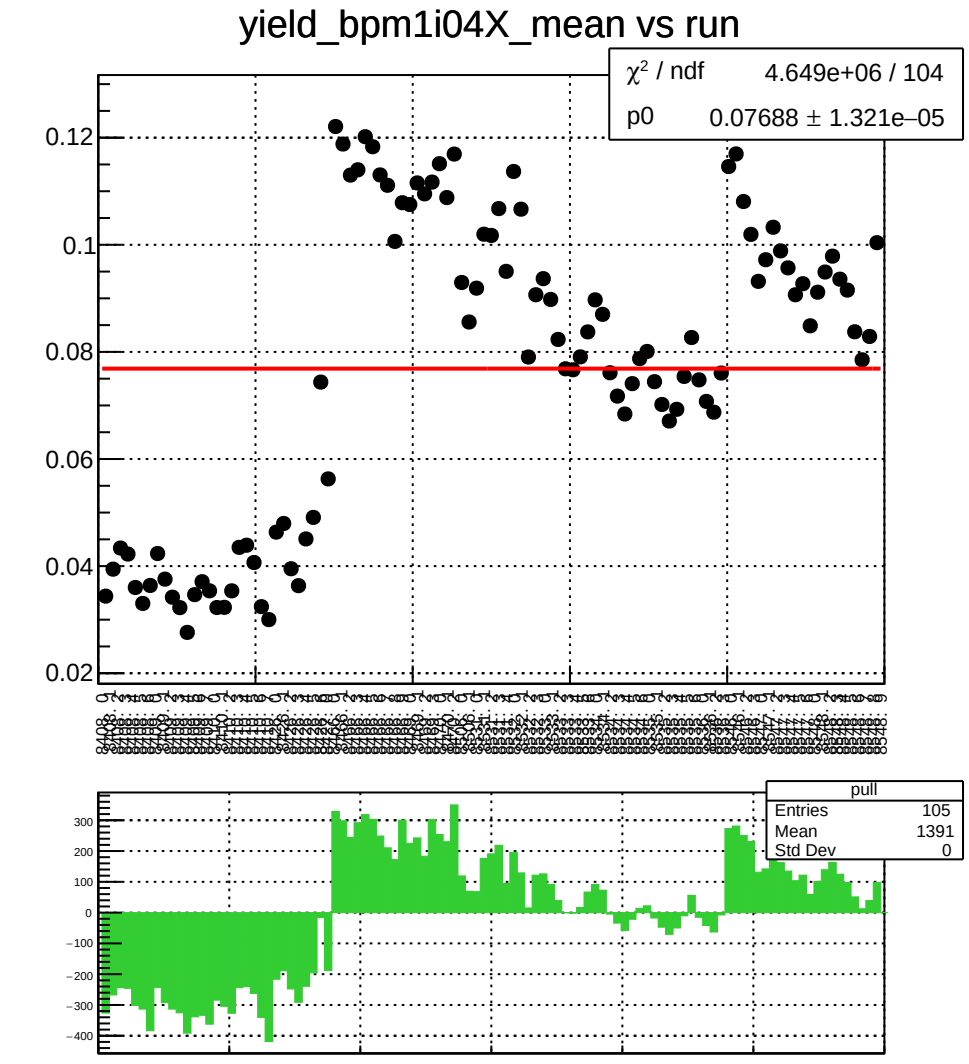

pull1D
Entries 105
Mean 1.532
Std Dev 4.081
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

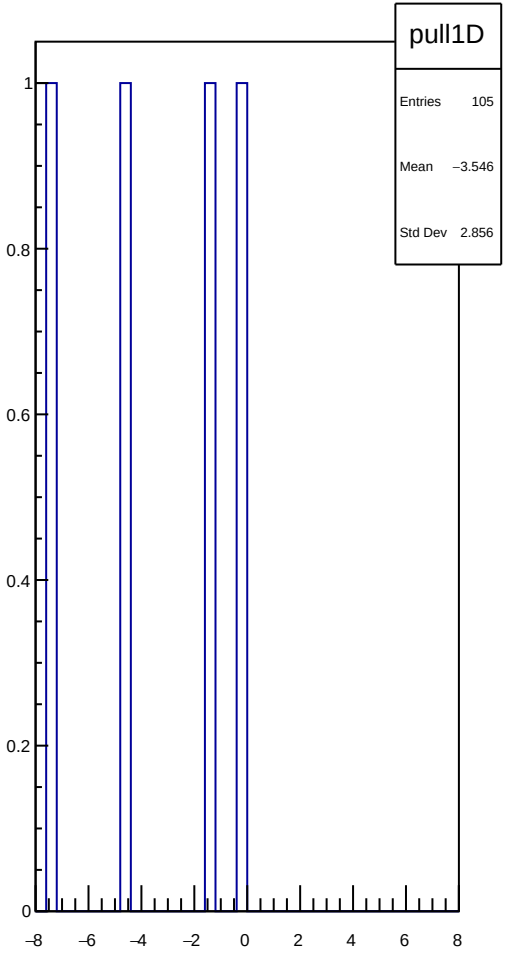

yield_bpm1i02X_rms vs run
χ² / ndf 3.036e+04 / 104
p0 0.01279 ± 9.009e–06
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

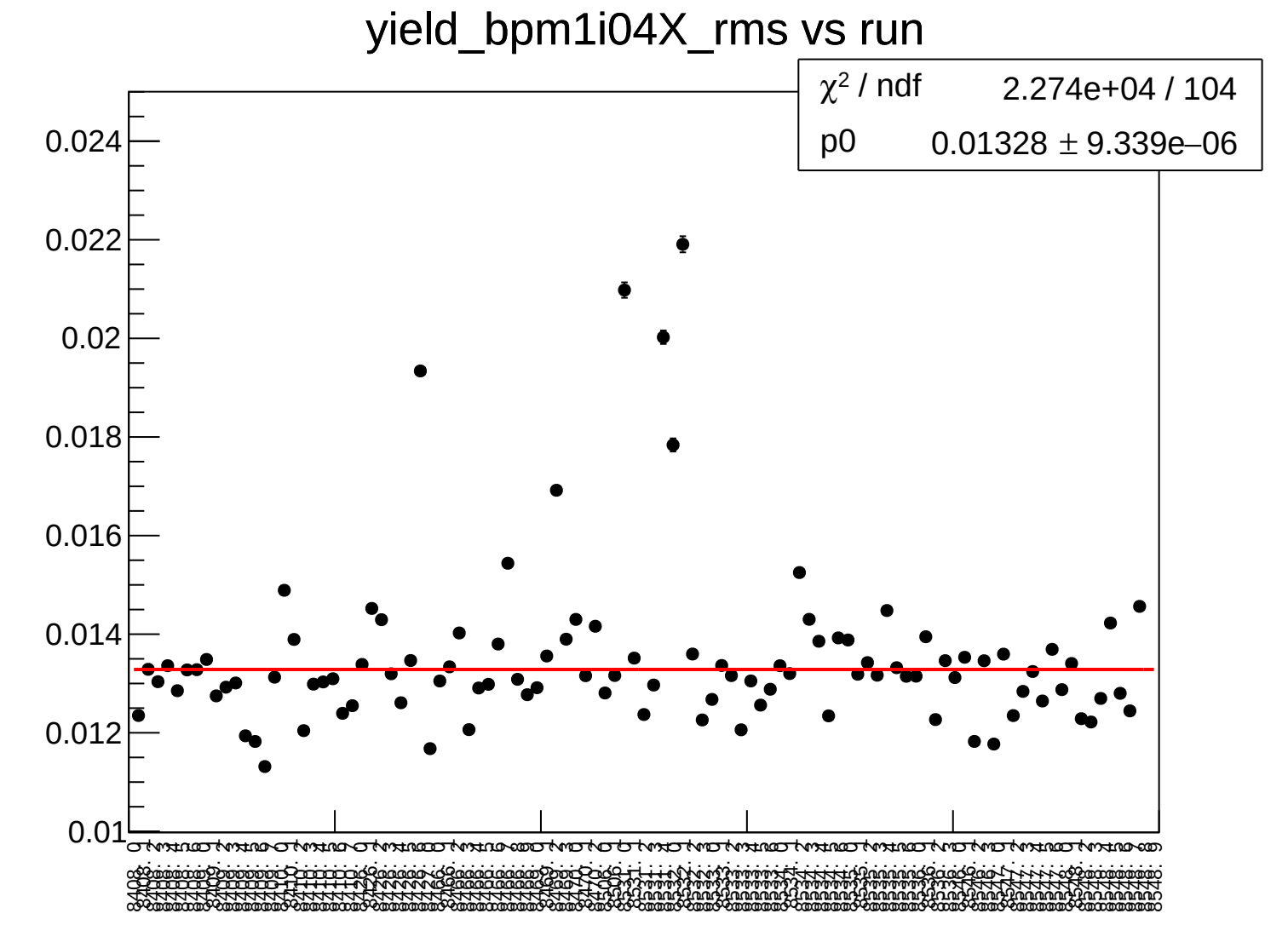

yield_bpm1i02Y_mean vs run
χ² / ndf 4.011e+06 / 104
p0 1.156 ± 9.227e−06
1.2
1.19
1.18
1.17
1.16
1.15
1.14
1.13
1.12
1.11
pull
Entries 105
Mean −2742
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400
−500

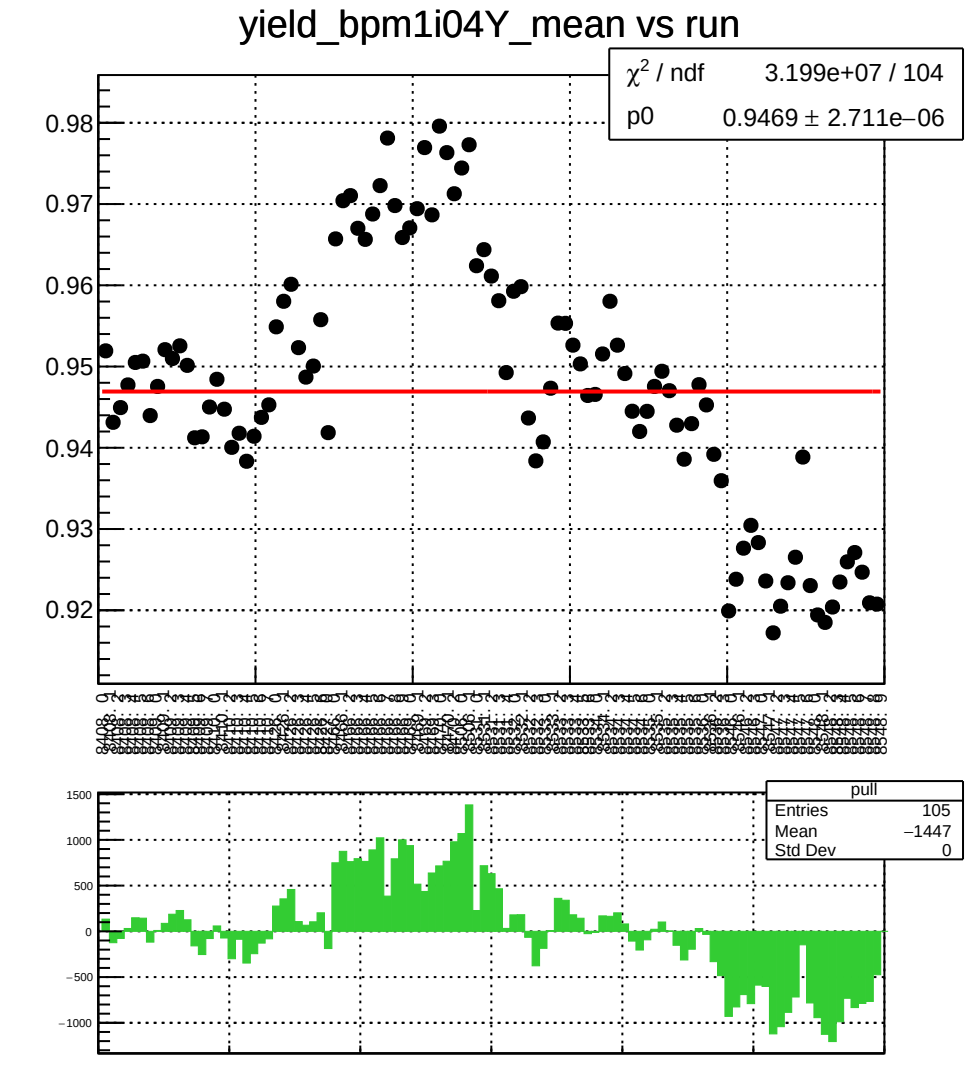

pull1D
Entries 105
Mean 0.4848
Std Dev 2.477
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

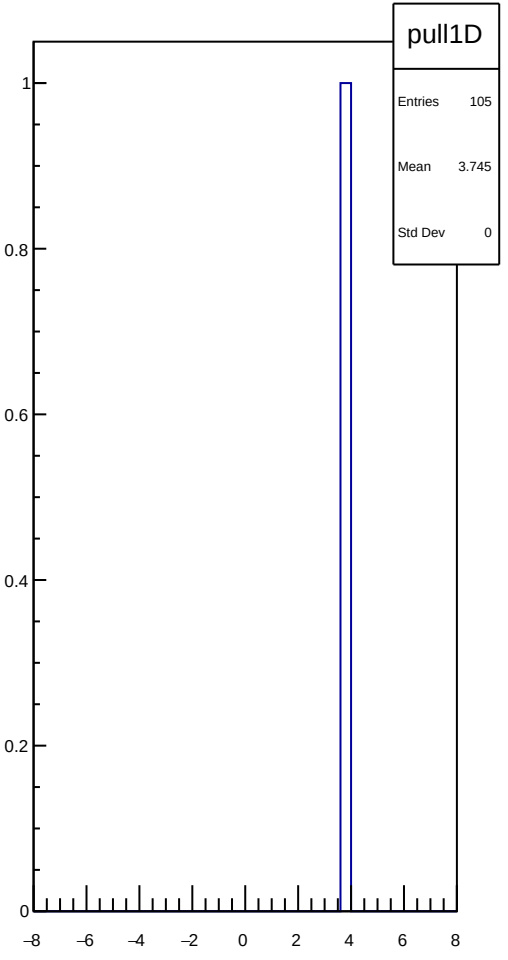

yield_bpm1i02Y_rms vs run
χ² / ndf 8619 / 104
p0 0.009313 ± 6.524e−06
0.013
0.012
0.011
0.01
0.009
0.008

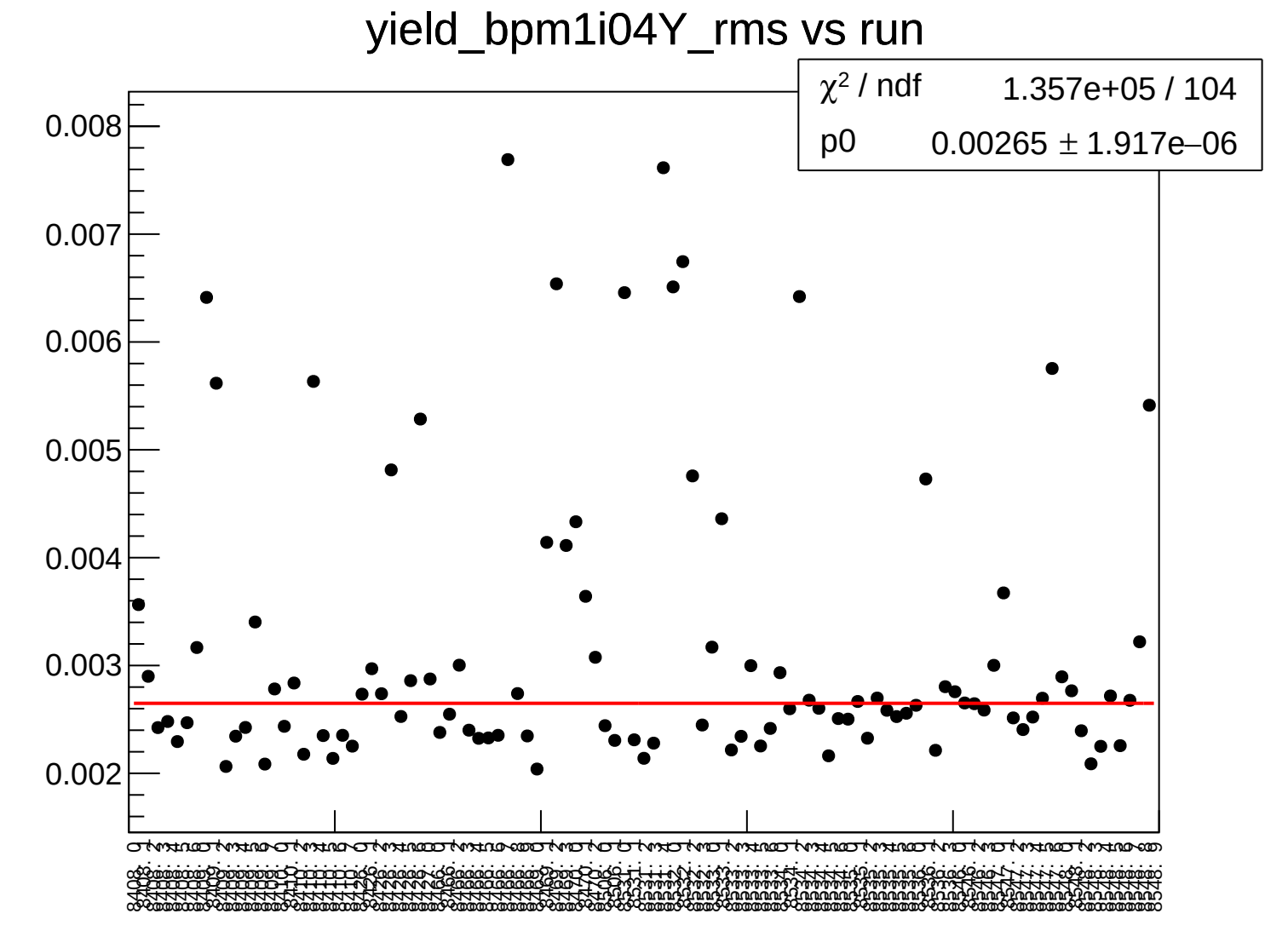

yield_bpm1i04X_mean vs run
χ² / ndf 4.649e+06 / 104
p0 0.07688 ± 1.321e−05
0.12
0.1
0.08
0.06
0.04
0.02
pull
Entries 105
Mean 1391
Std Dev 0
300
200
100
0
−100
−200
−300
−400

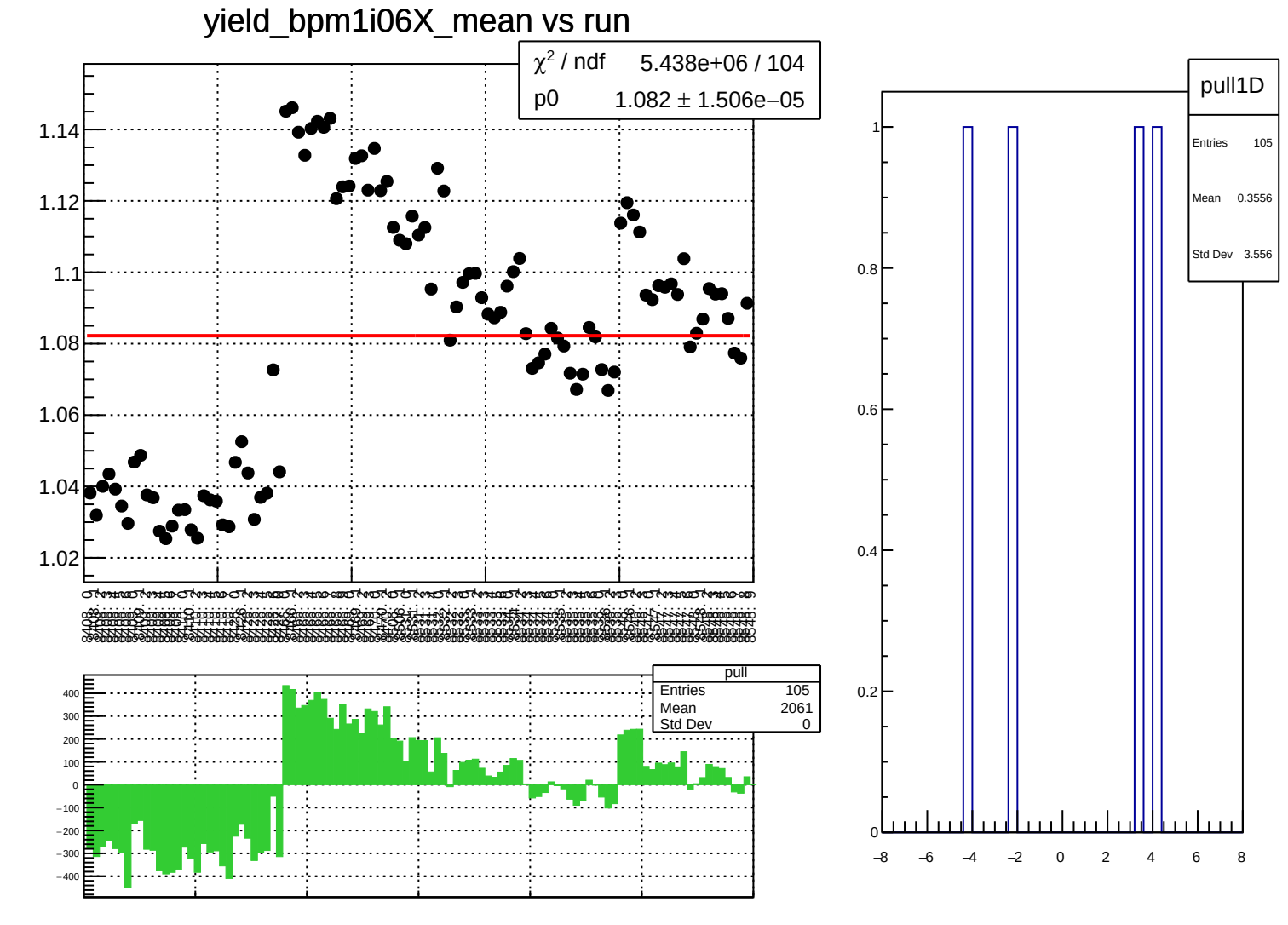

pull1D
Entries 105
Mean −3.546
Std Dev 2.856
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

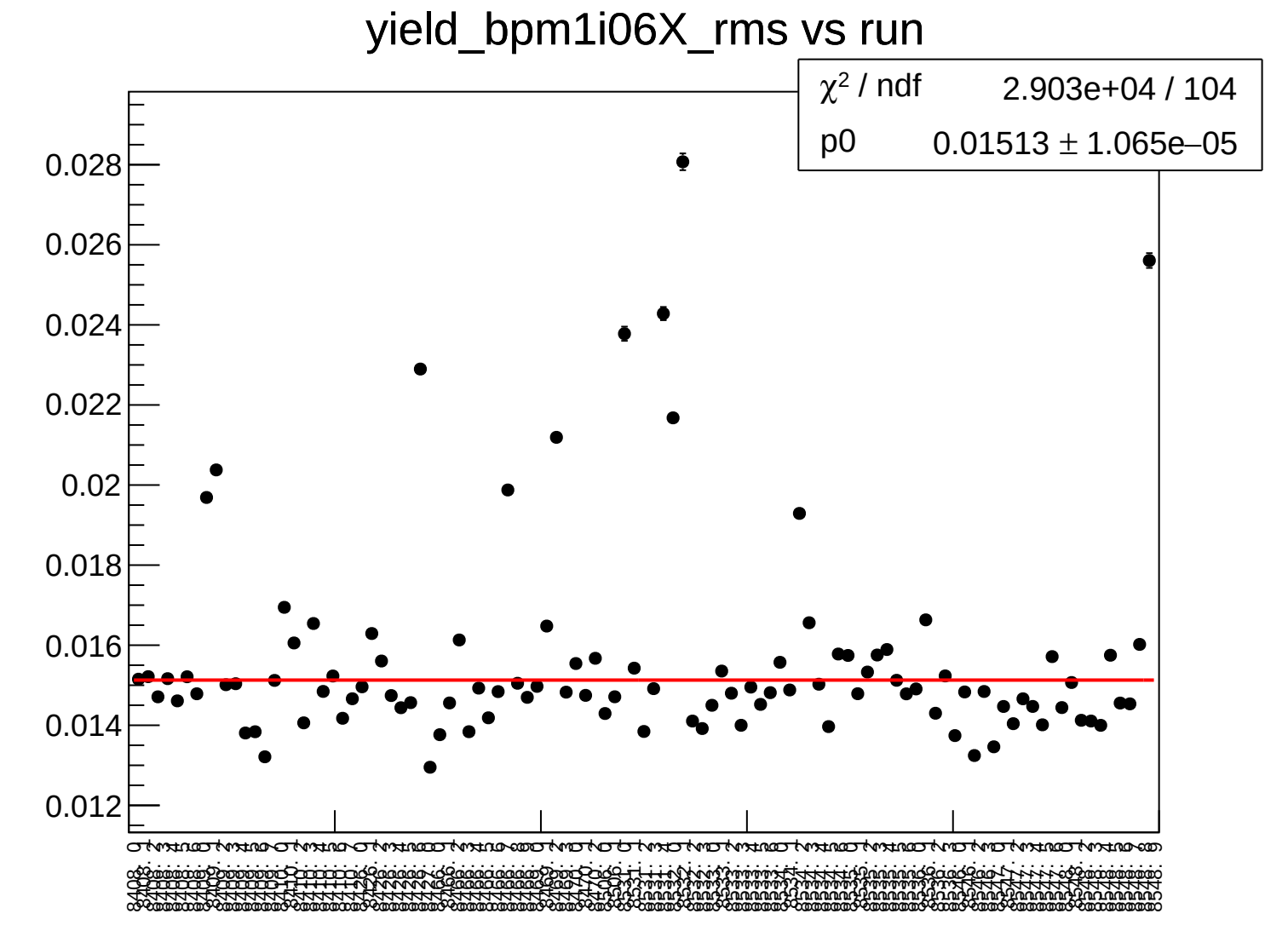

yield_bpm1i04X_rms vs run
χ² / ndf 2.274e+04 / 104
p0 0.01328 ± 9.339e–06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

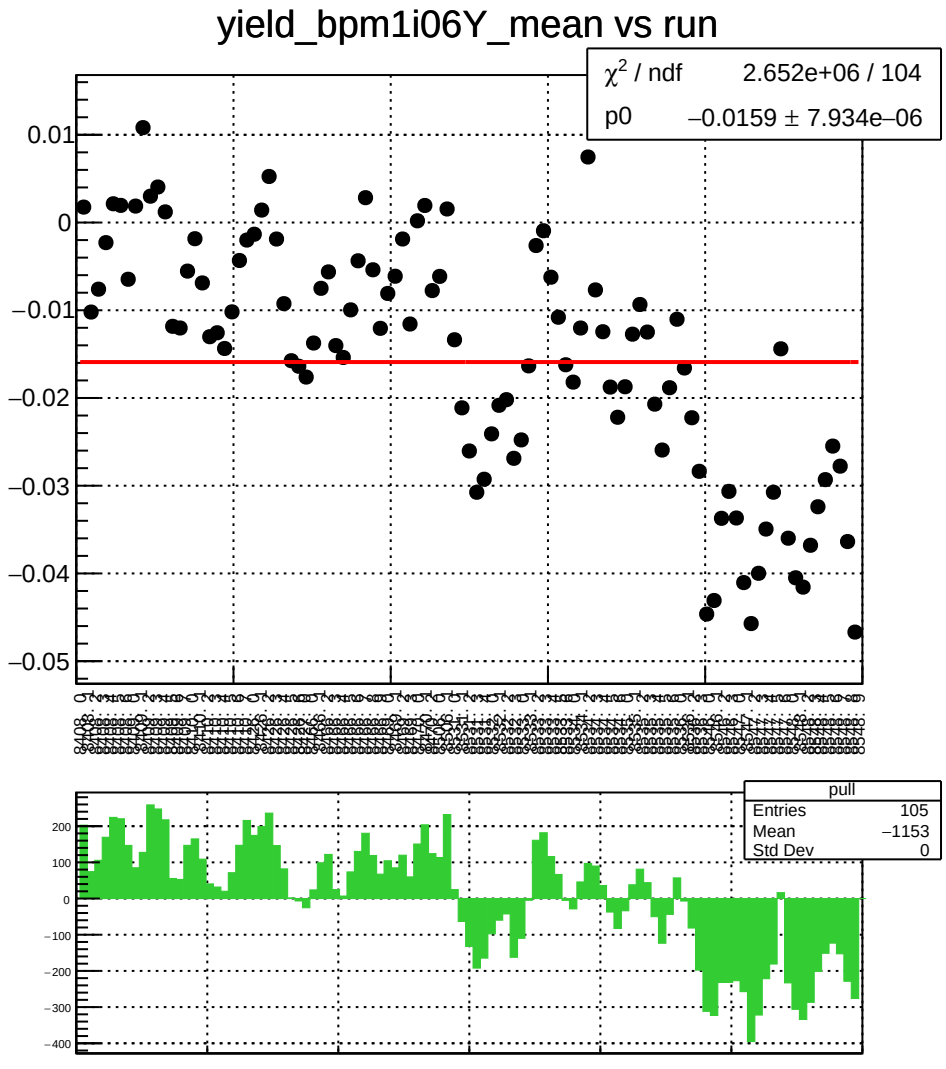

yield_bpm1i04Y_mean vs run
χ² / ndf 3.199e+07 / 104
p0 0.9469 ± 2.711e−06
0.98
0.97
0.96
0.95
0.94
0.93
0.92
pull
Entries 105
Mean −1447
Std Dev 0
1500
1000
500
0
−500
−1000

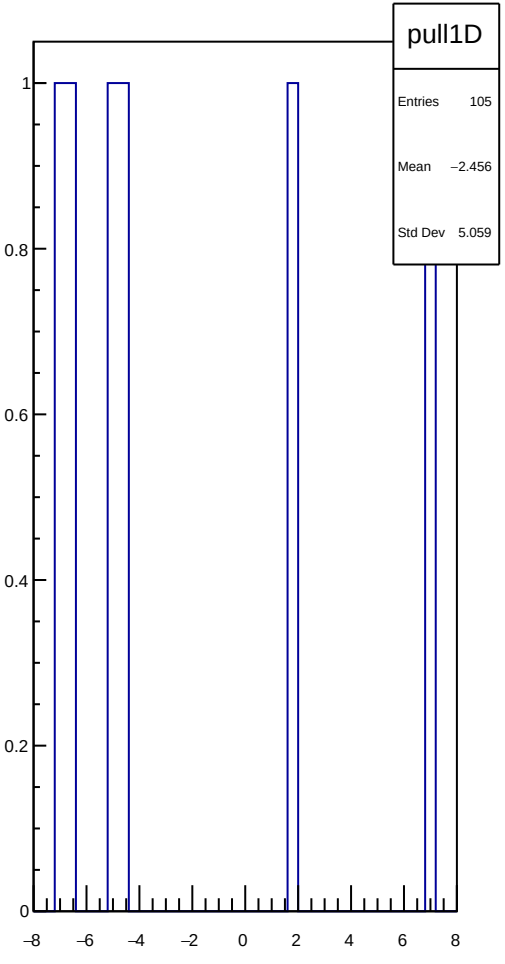

pull1D
Entries 105
Mean 3.745
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

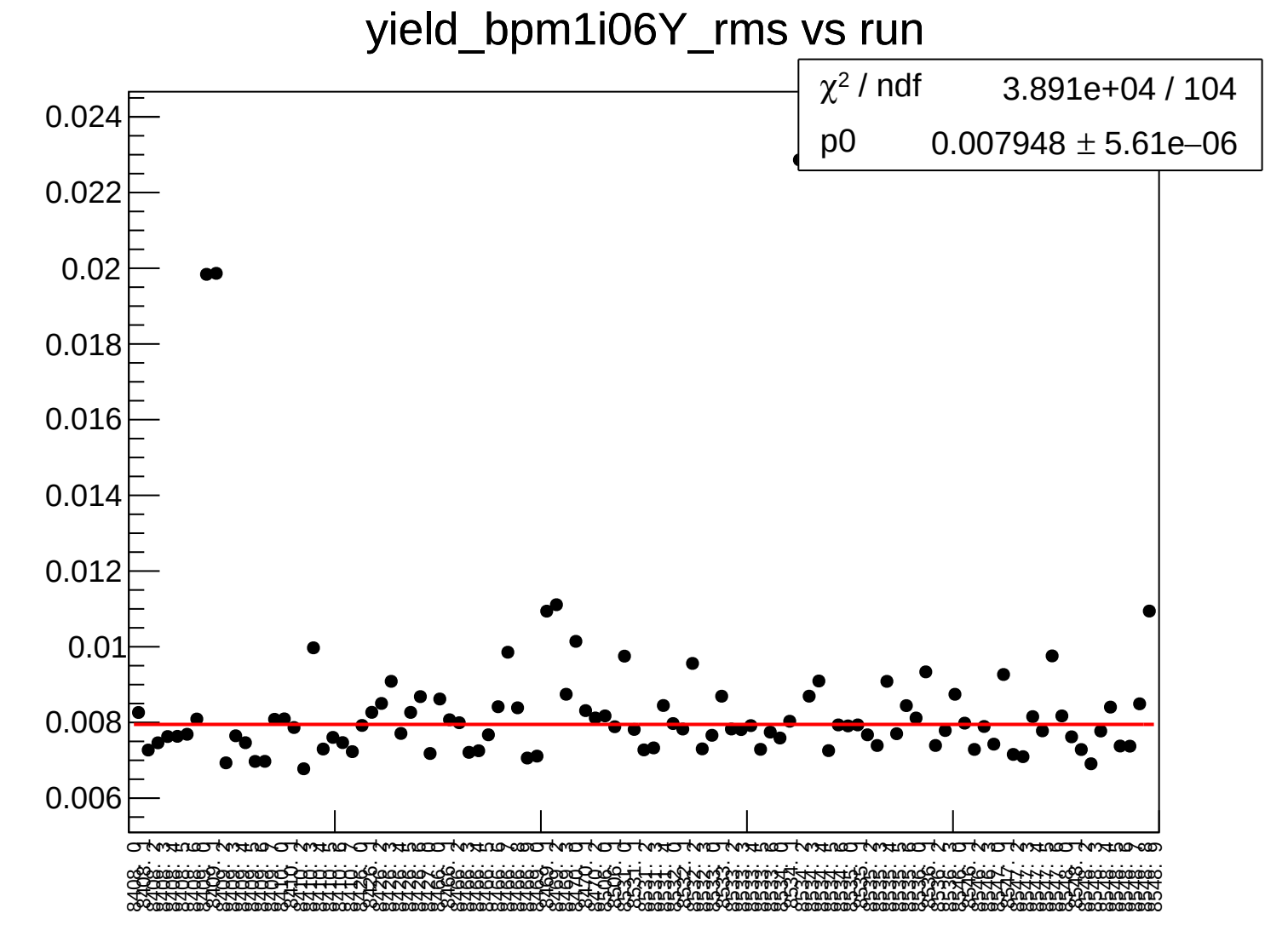

yield_bpm1i04Y_rms vs run
χ² / ndf 1.357e+05 / 104
p0 0.00265 ± 1.917e–06
0.008
0.007
0.006
0.005
0.004
0.003
0.002

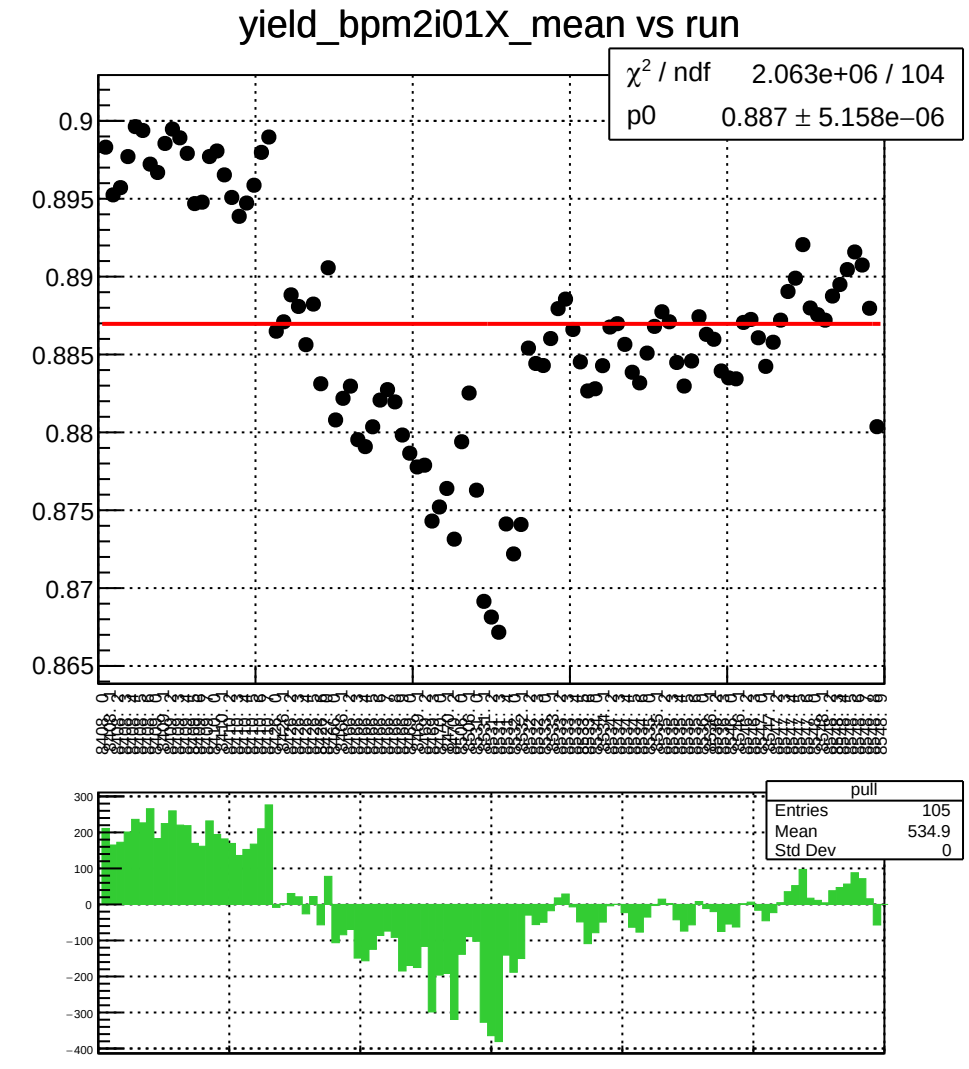

yield_bpm1i06X_mean vs run
χ² / ndf 5.438e+06 / 104
p0 1.082 ± 1.506e−05
1.14
1.12
1.1
1.08
1.06
1.04
1.02
pull
Entries 105
Mean 2061
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400
pull1D
Entries 105
Mean 0.3556
Std Dev 3.556
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

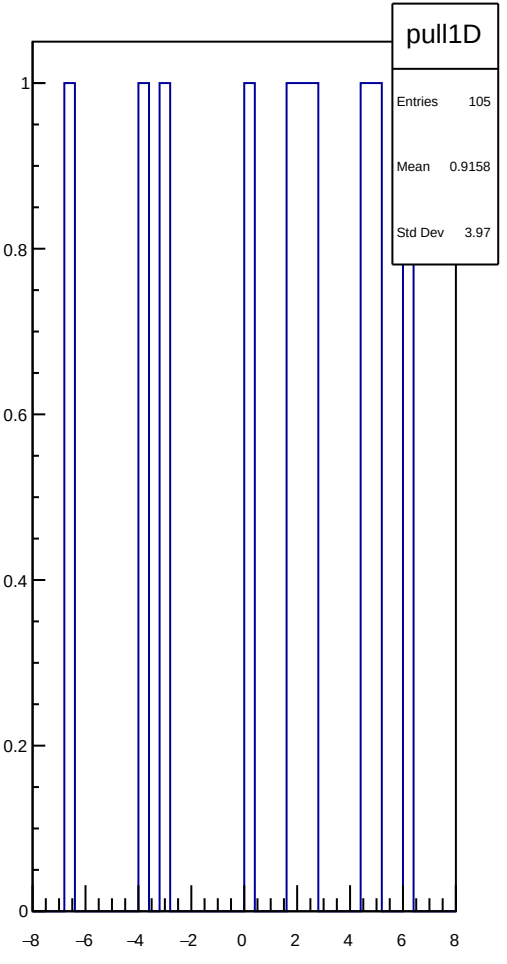

yield_bpm1i06X_rms vs run
χ² / ndf 2.903e+04 / 104
p0 0.01513 ± 1.065e−05
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012

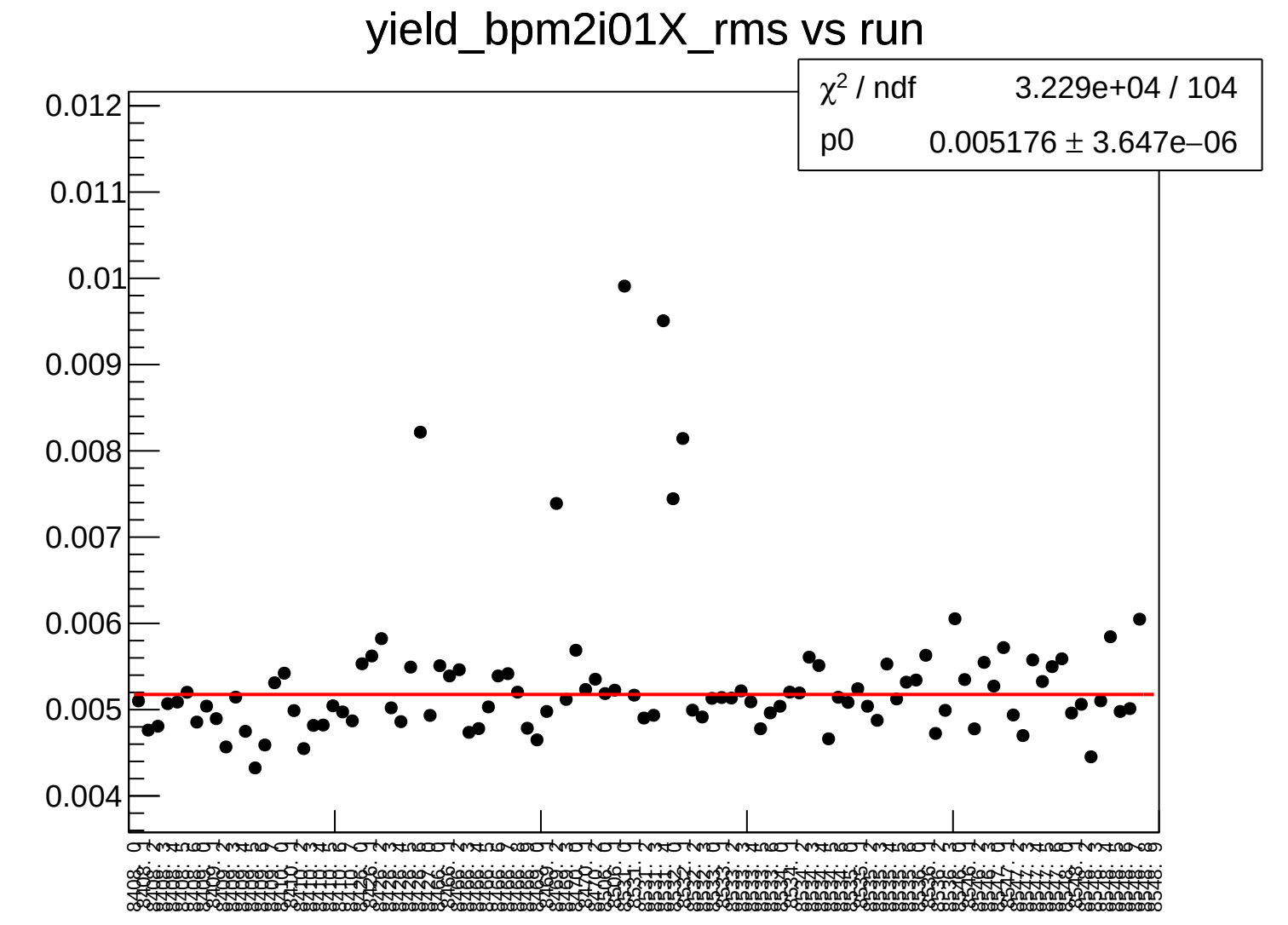

yield_bpm1i06Y_mean vs run
χ² / ndf 2.652e+06 / 104
p0 −0.0159 ± 7.934e−06
0.01
0
−0.01
−0.02
−0.03
−0.04
−0.05
pull
Entries 105
Mean −1153
Std Dev 0
200
100
0
−100
−200
−300
−400

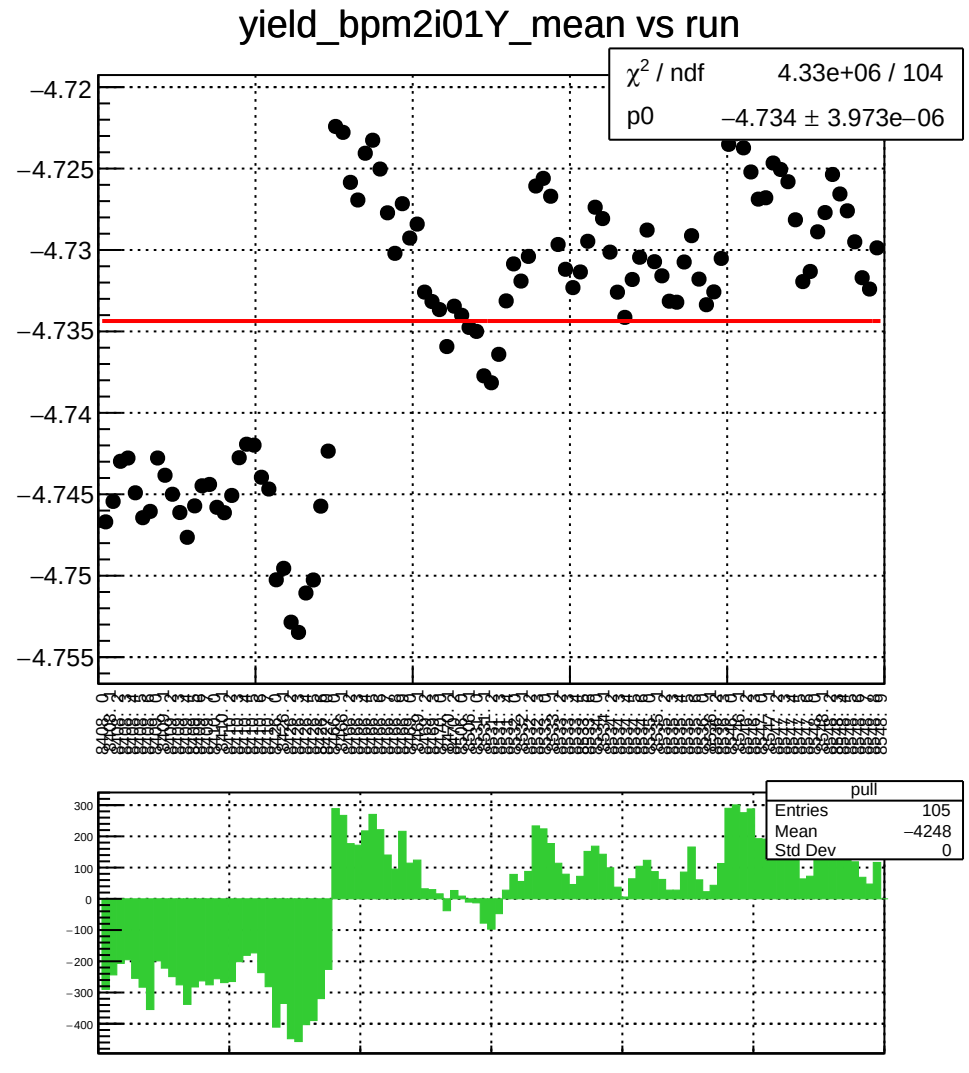

pull1D
Entries 105
Mean −2.456
Std Dev 5.059
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

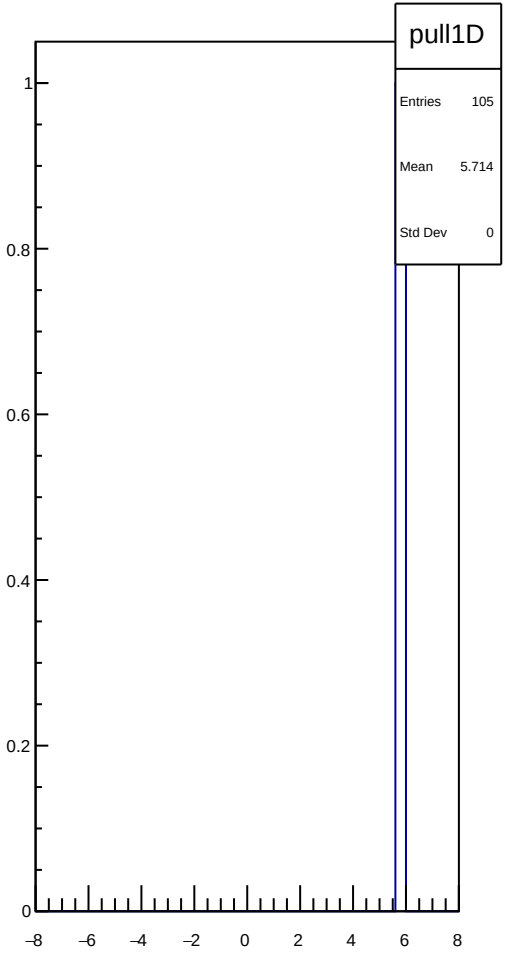

yield_bpm1i06Y_rms vs run
χ² / ndf 3.891e+04 / 104
p0 0.007948 ± 5.61e–06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

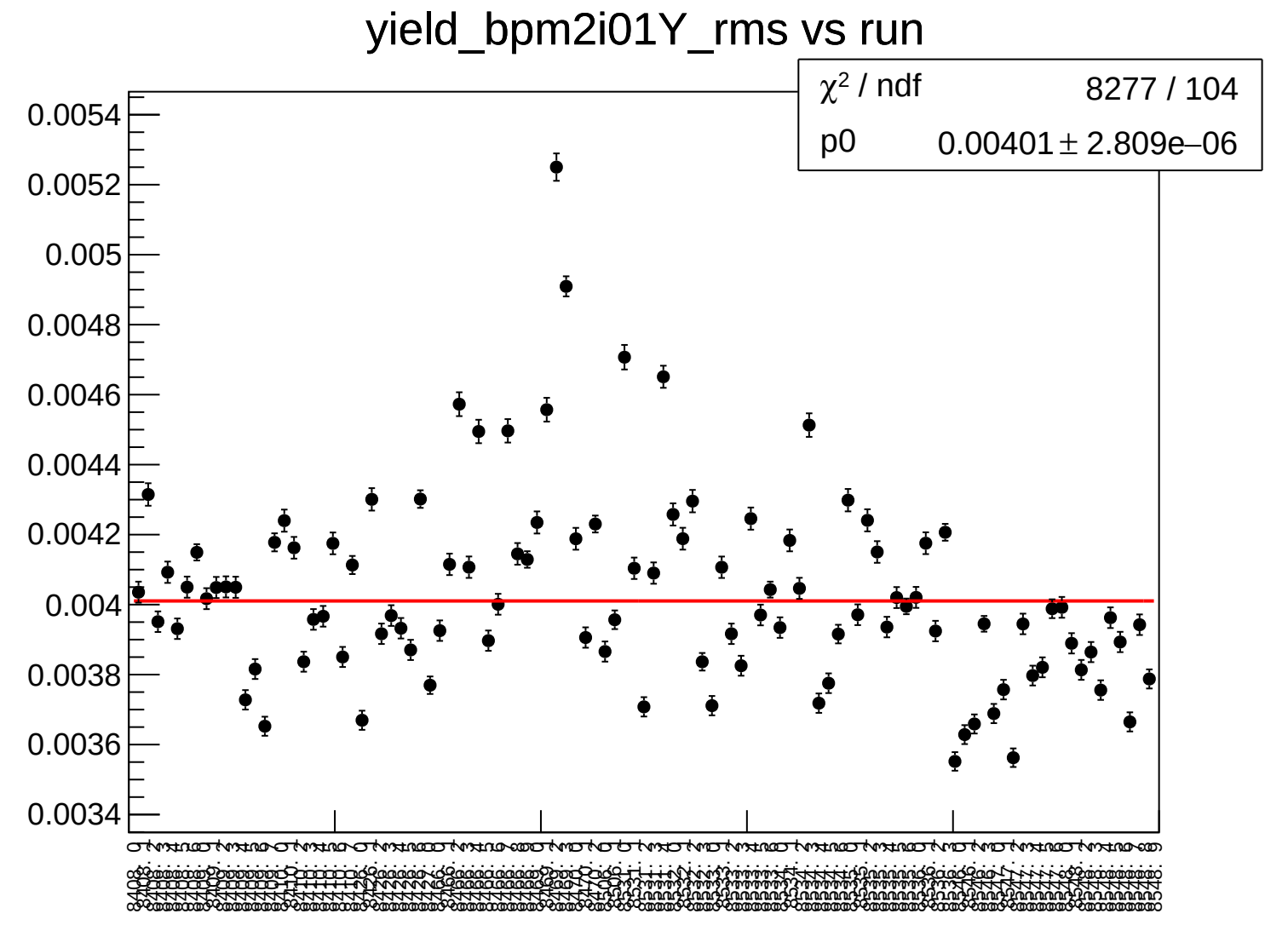

yield_bpm2i01X_mean vs run
χ² / ndf 2.063e+06 / 104
p0 0.887 ± 5.158e−06
0.9
0.895
0.89
0.885
0.88
0.875
0.87
0.865
pull
Entries 105
Mean 534.9
Std Dev 0
300
200
100
0
−100
−200
−300
−400

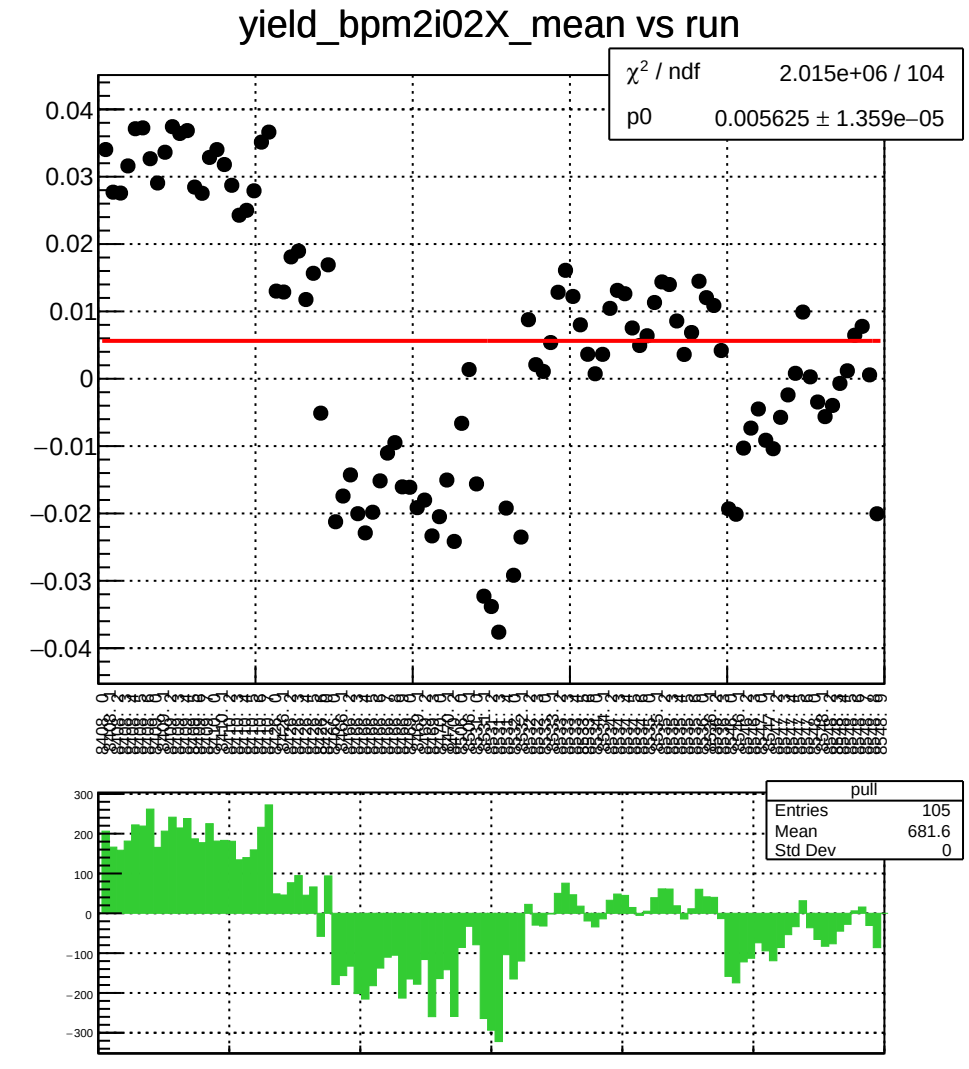

pull1D
Entries 105
Mean 0.9158
Std Dev 3.97
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

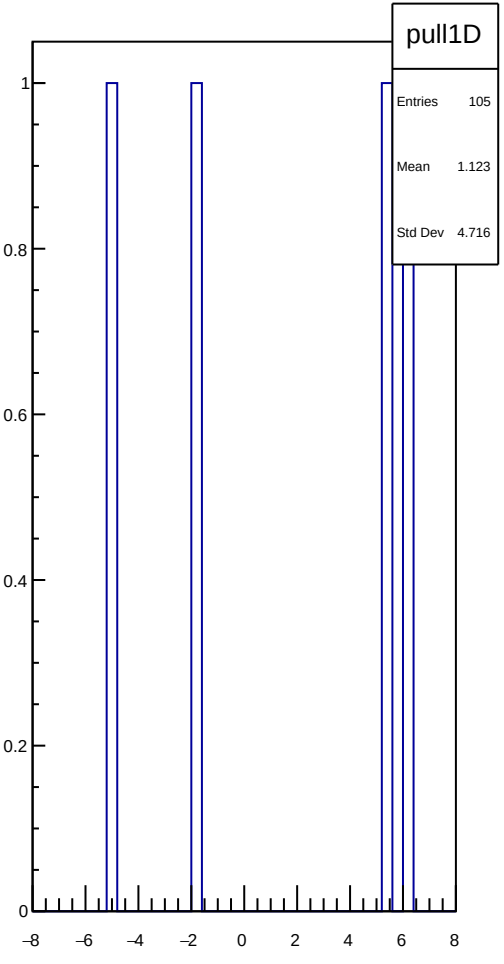

yield_bpm2i01X_rms vs run
χ² / ndf 3.229e+04 / 104
p0 0.005176 ± 3.647e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004

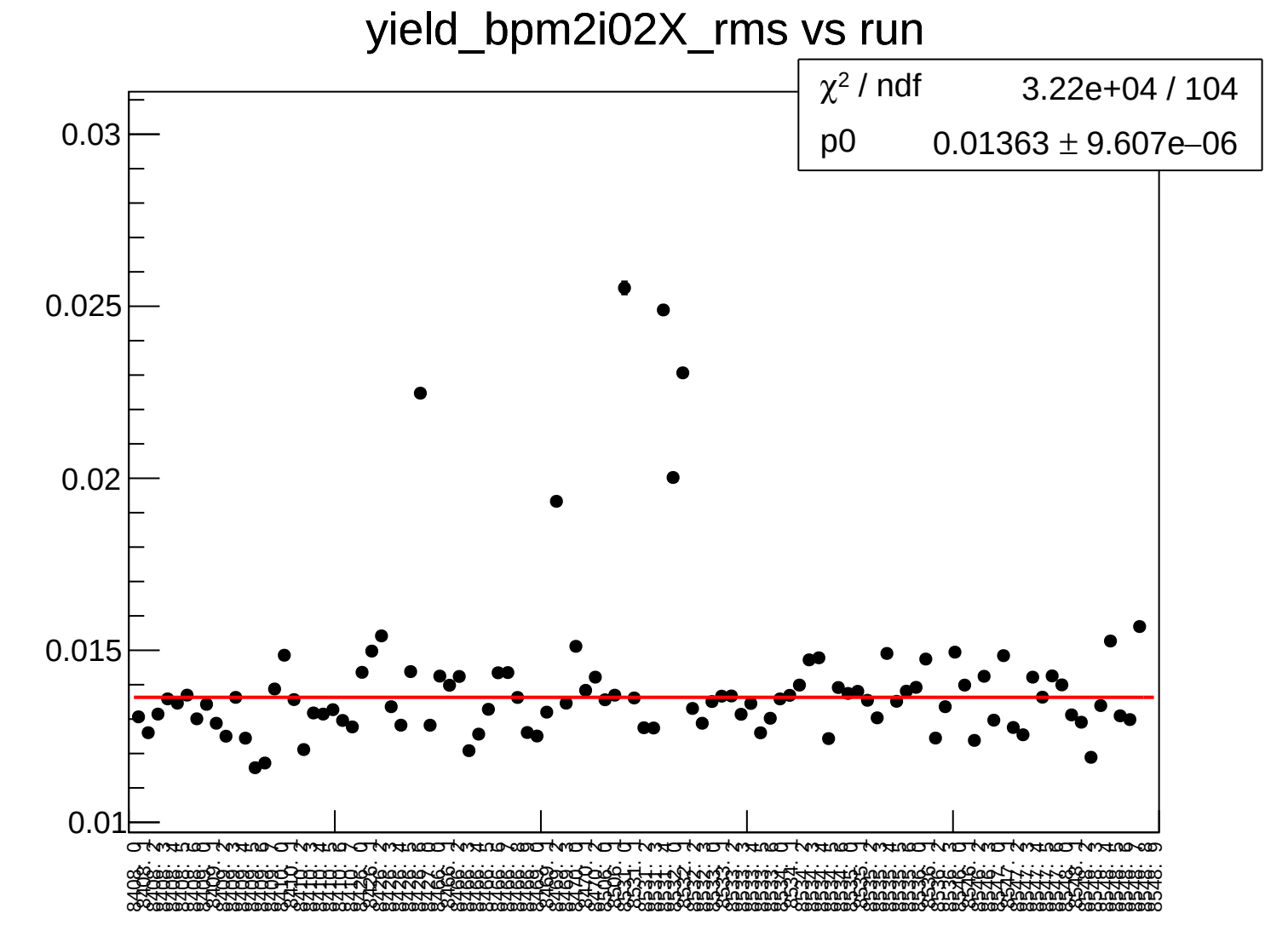

yield_bpm2i01Y_mean vs run
χ² / ndf 4.33e+06 / 104
p0 −4.734 ± 3.973e−06
−4.72
−4.725
−4.73
−4.735
−4.74
−4.745
−4.75
−4.755
pull
Entries 105
Mean −4248
Std Dev 0
300
200
100
0
−100
−200
−300
−400

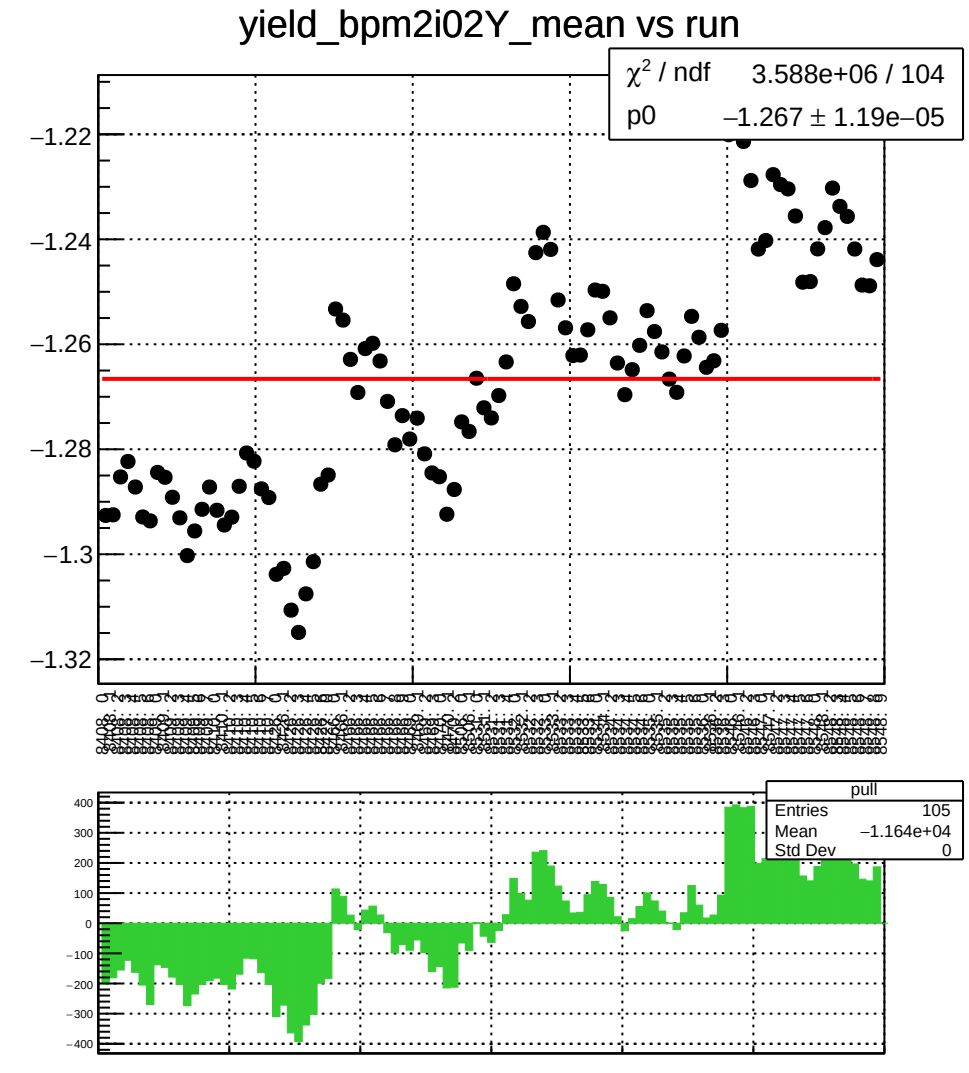

pull1D
Entries 105
Mean 5.714
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

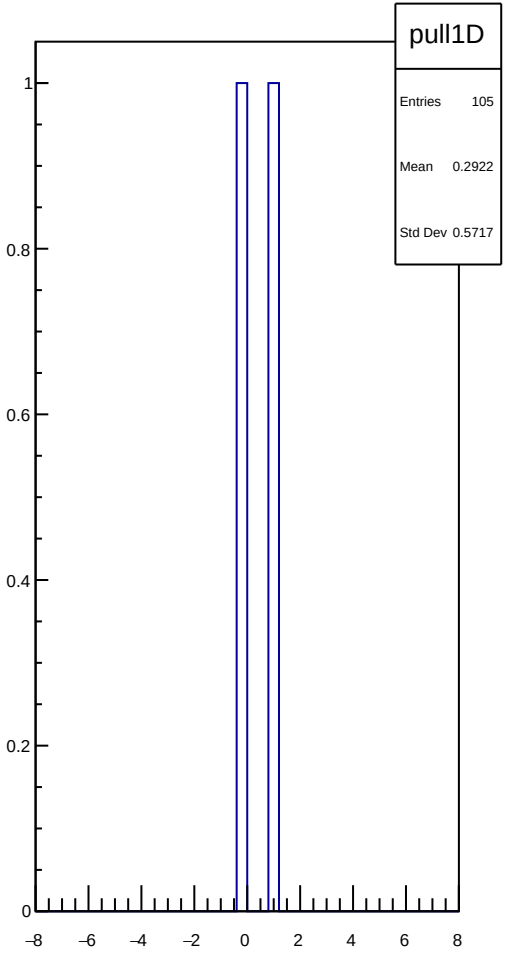

yield_bpm2i01Y_rms vs run
χ² / ndf 8277 / 104
p0 0.00401 ± 2.809e−06
0.0054
0.0052
0.005
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036
0.0034

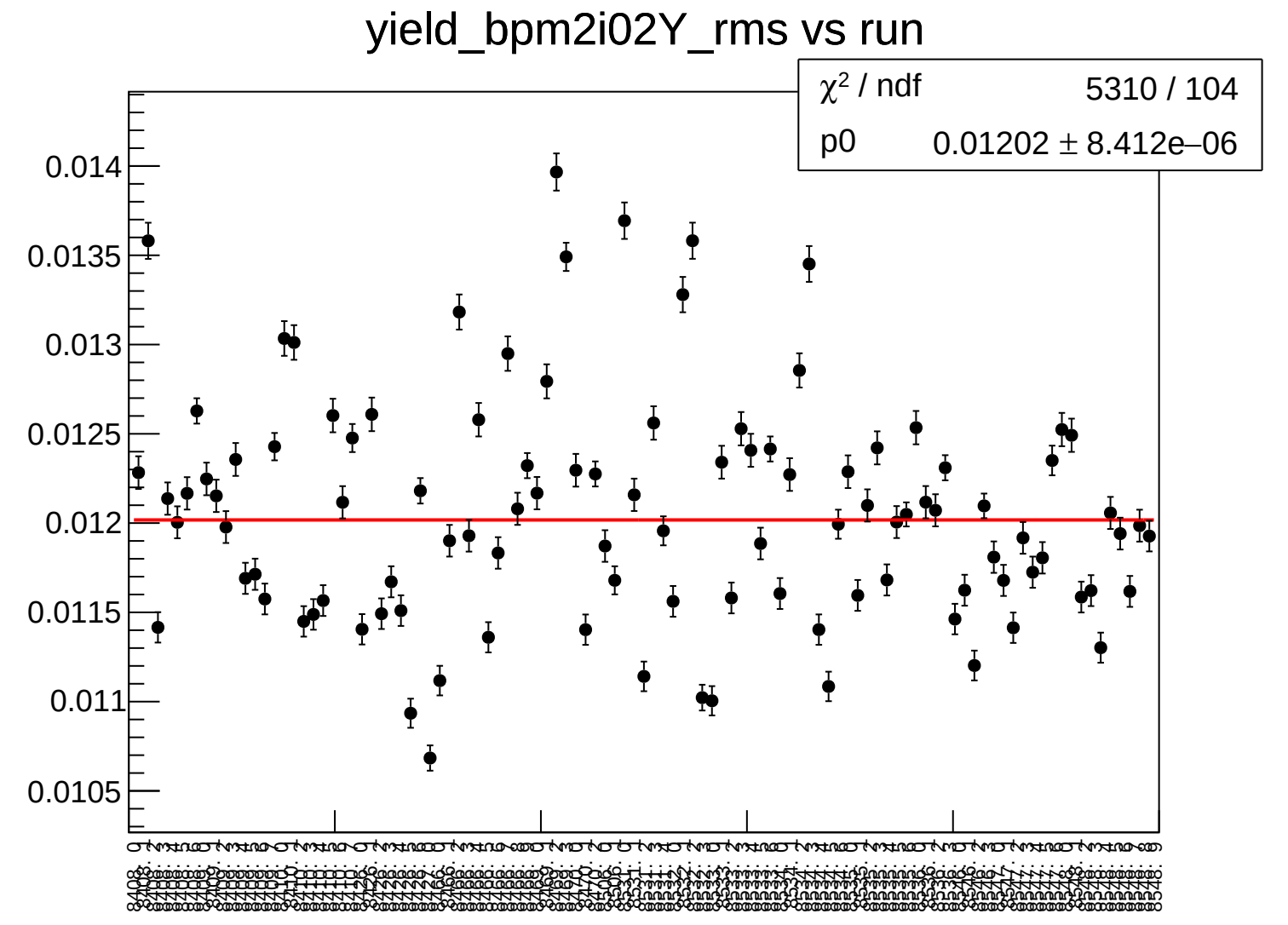

yield_bpm2i02X_mean vs run
χ² / ndf 2.015e+06 / 104
p0 0.005625 ± 1.359e−05
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 105
Mean 681.6
Std Dev 0
300
200
100
0
−100
−200
−300

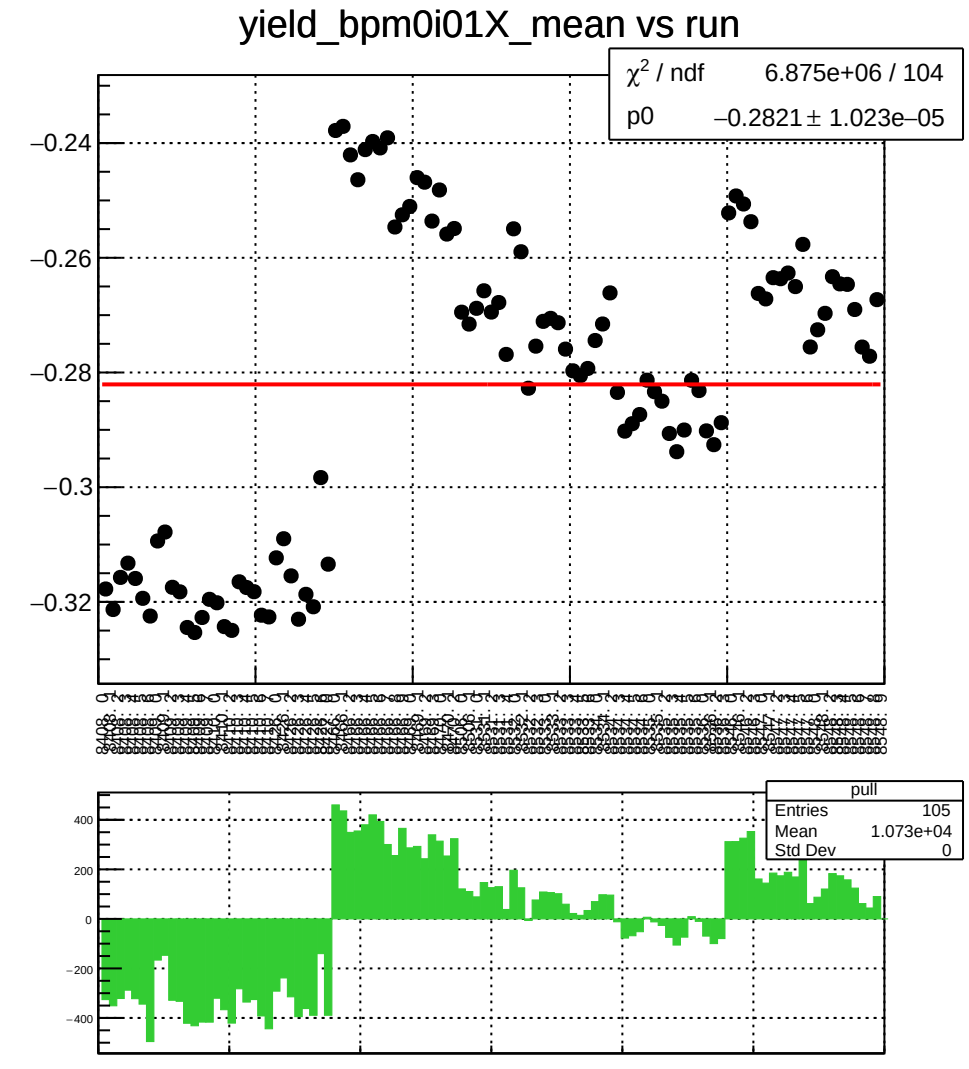

pull1D
Entries 105
Mean 1.123
Std Dev 4.716
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

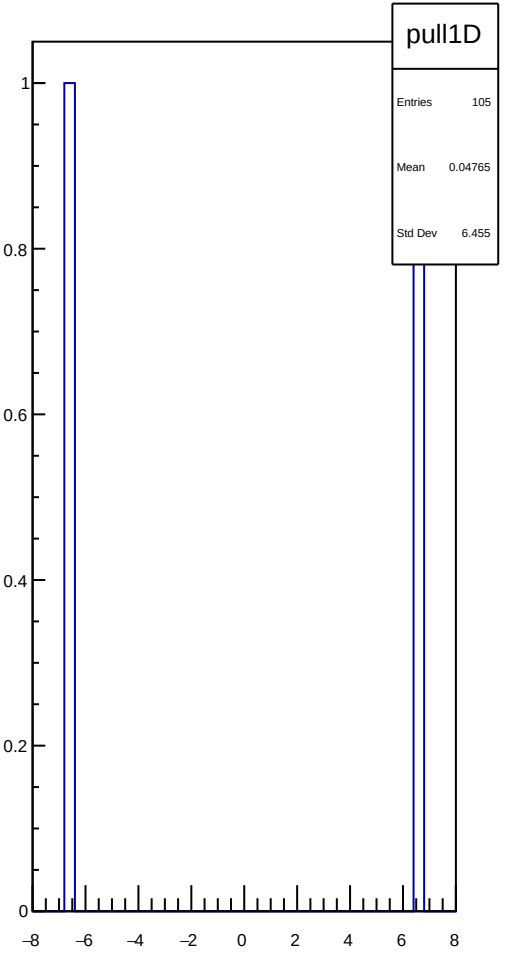

yield_bpm2i02X_rms vs run
χ² / ndf 3.22e+04 / 104
p0 0.01363 ± 9.607e−06
0.03
0.025
0.02
0.015
0.01

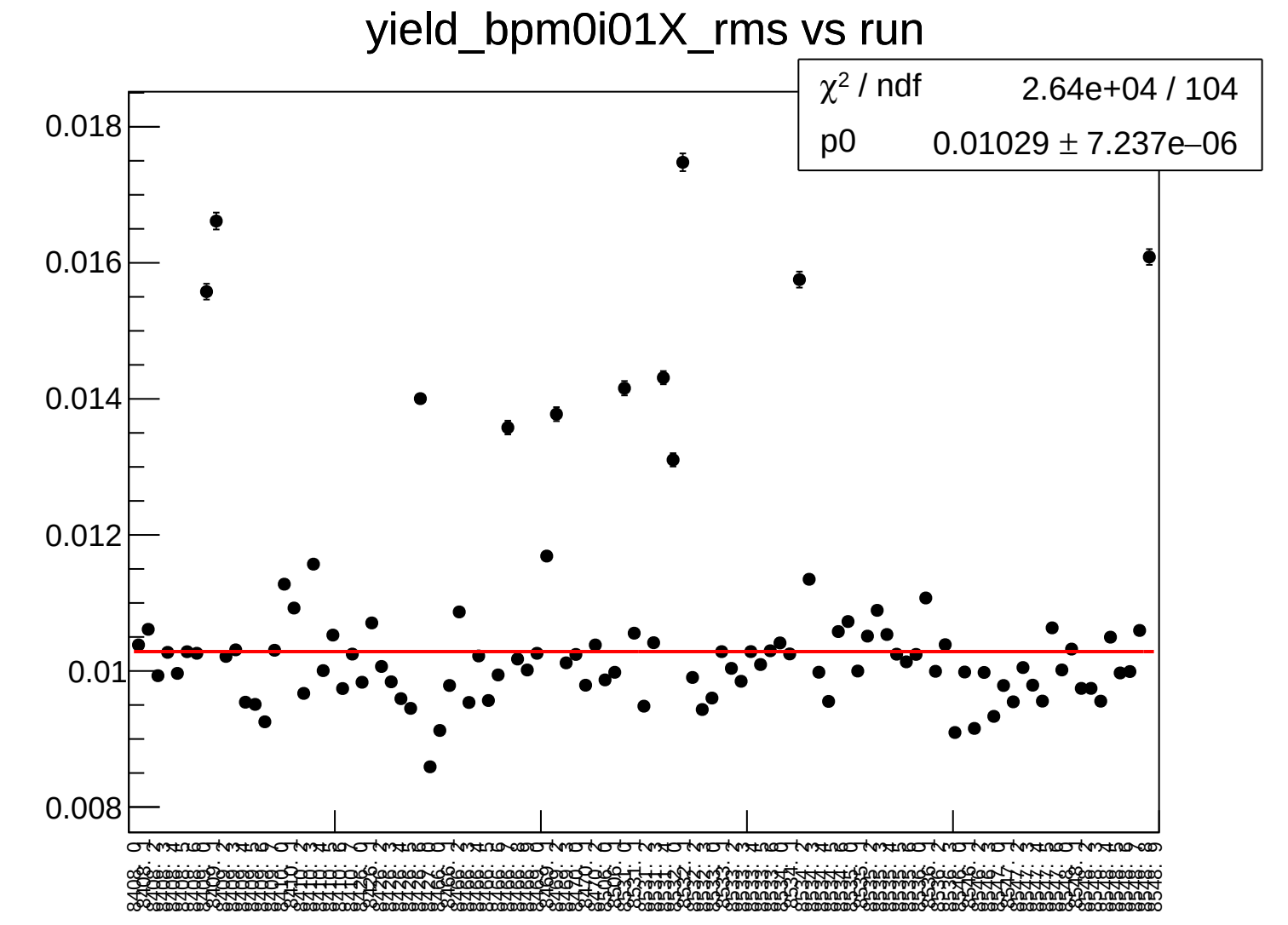

yield_bpm2i02Y_mean vs run
χ² / ndf 3.588e+06 / 104
p0 −1.267 ± 1.19e−05
−1.22
−1.24
−1.26
−1.28
−1.3
−1.32
pull
Entries 105
Mean −1.164e+04
Std Dev 0
400
300
200
100
0
−100
−200
−300
−400

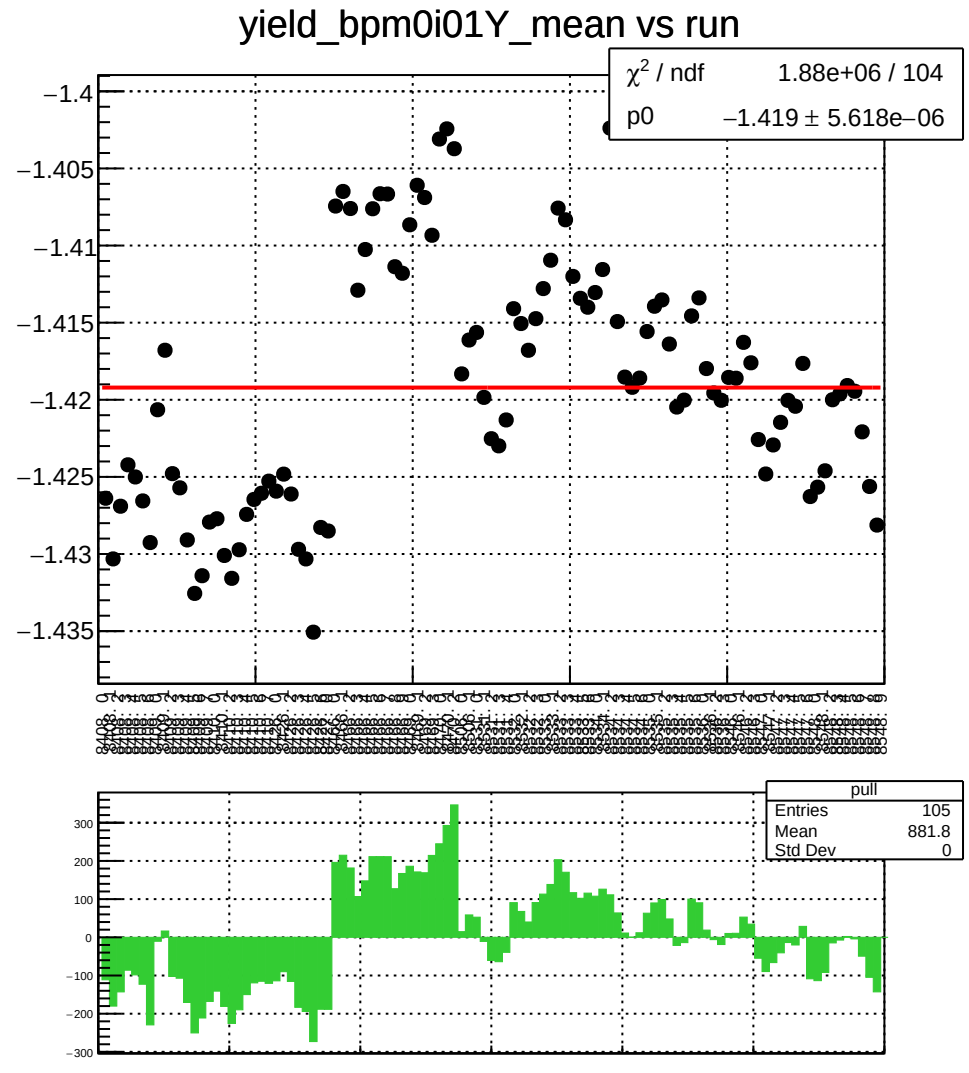

pull1D
Entries 105
Mean 0.2922
Std Dev 0.5717
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

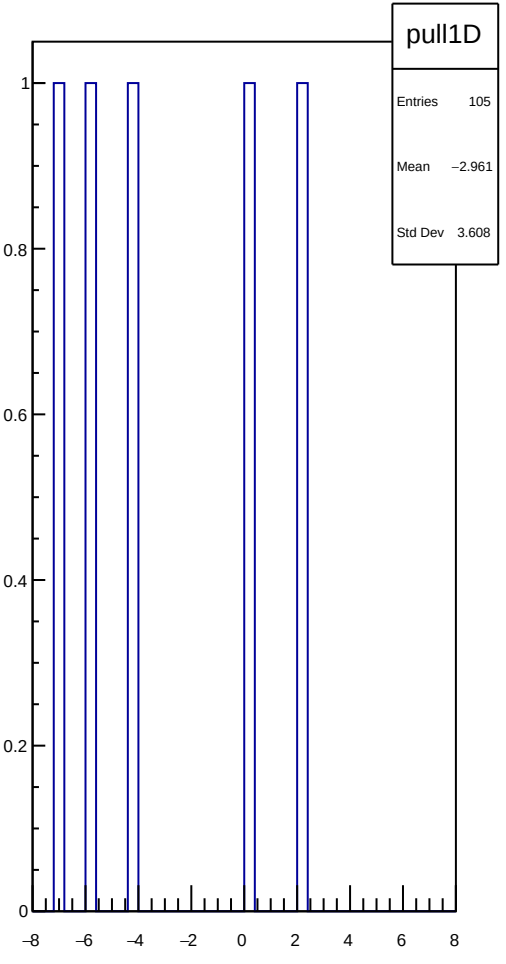

yield_bpm2i02Y_rms vs run
χ² / ndf 5310 / 104
p0 0.01202 ± 8.412e–06
0.014
0.0135
0.013
0.0125
0.012
0.0115
0.011
0.0105

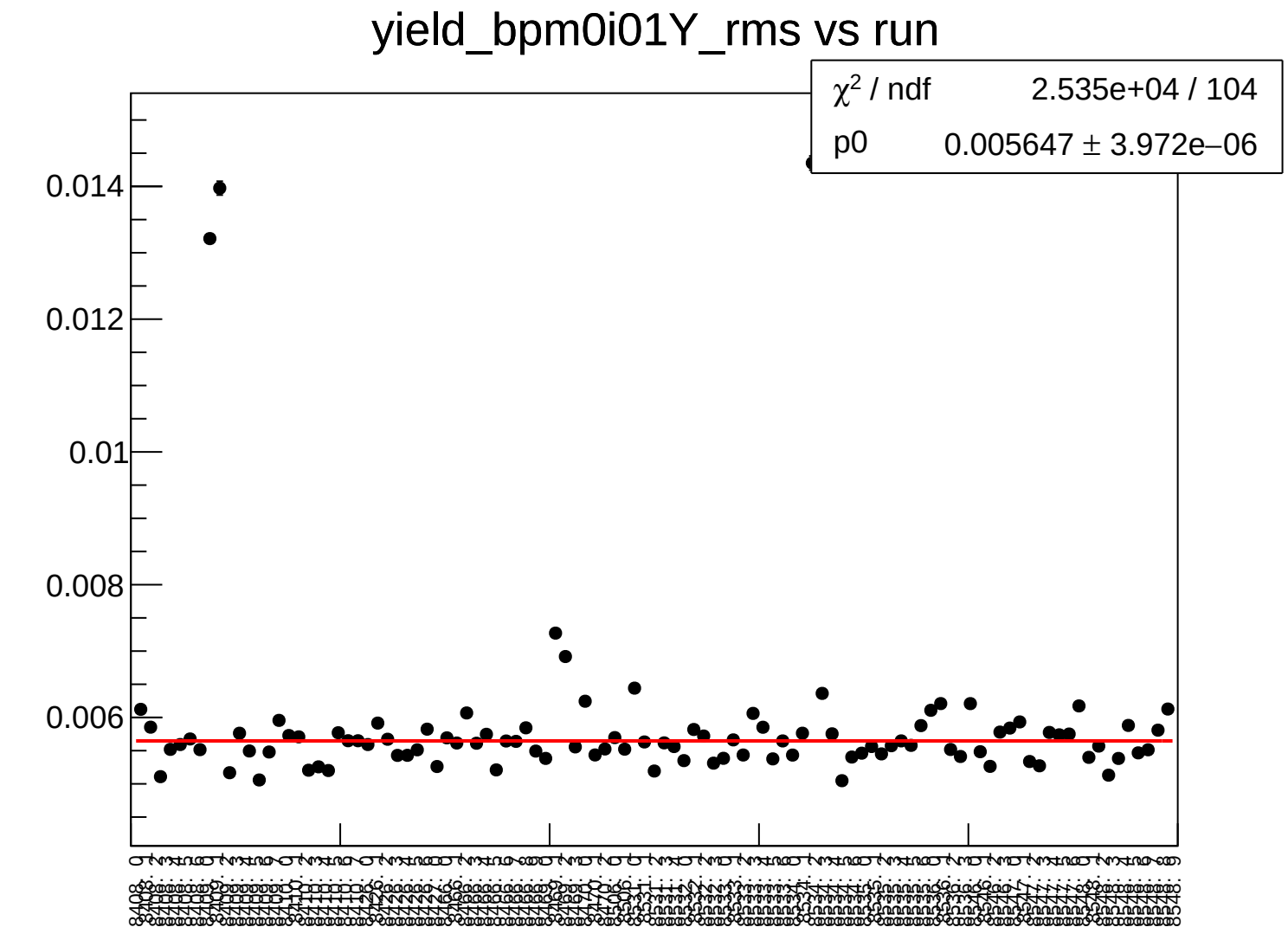

yield_bpm0i01X_mean vs run
χ² / ndf 6.875e+06 / 104
p0 −0.2821 ± 1.023e−05
−0.24
−0.26
−0.28
−0.3
−0.32
pull
Entries 105
Mean 1.073e+04
Std Dev 0
400
200
0
−200
−400

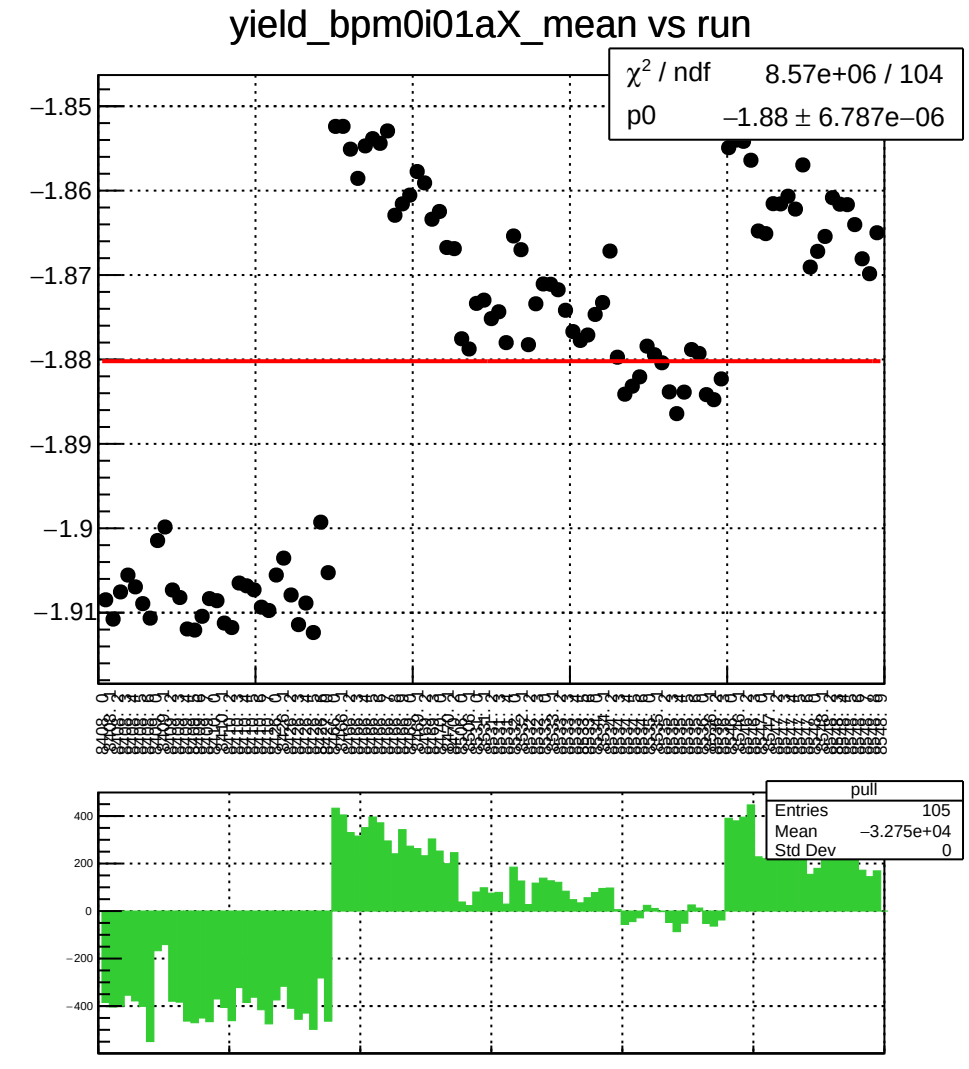

pull1D
Entries 105
Mean 0.04765
Std Dev 6.455
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

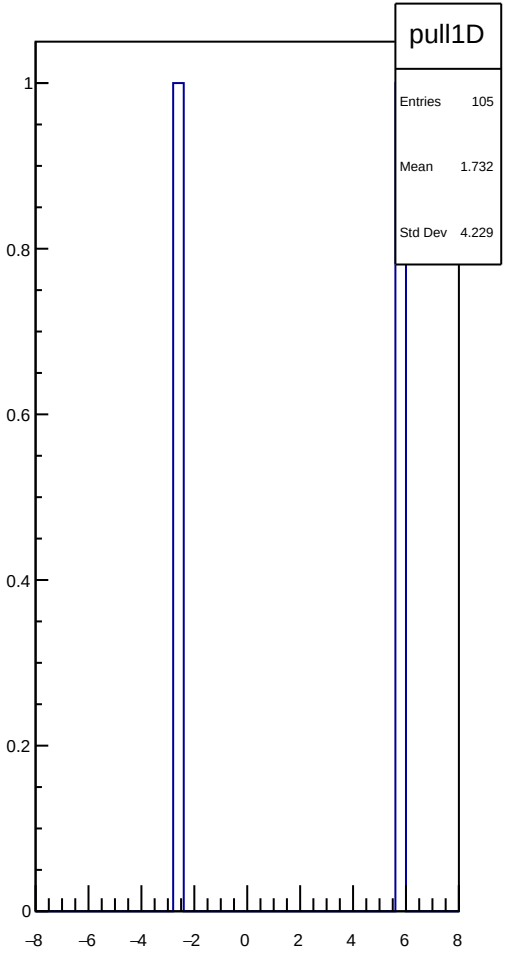

yield_bpm0i01X_rms vs run
χ² / ndf 2.64e+04 / 104
p0 0.01029 ± 7.237e–06
0.018
0.016
0.014
0.012
0.01
0.008

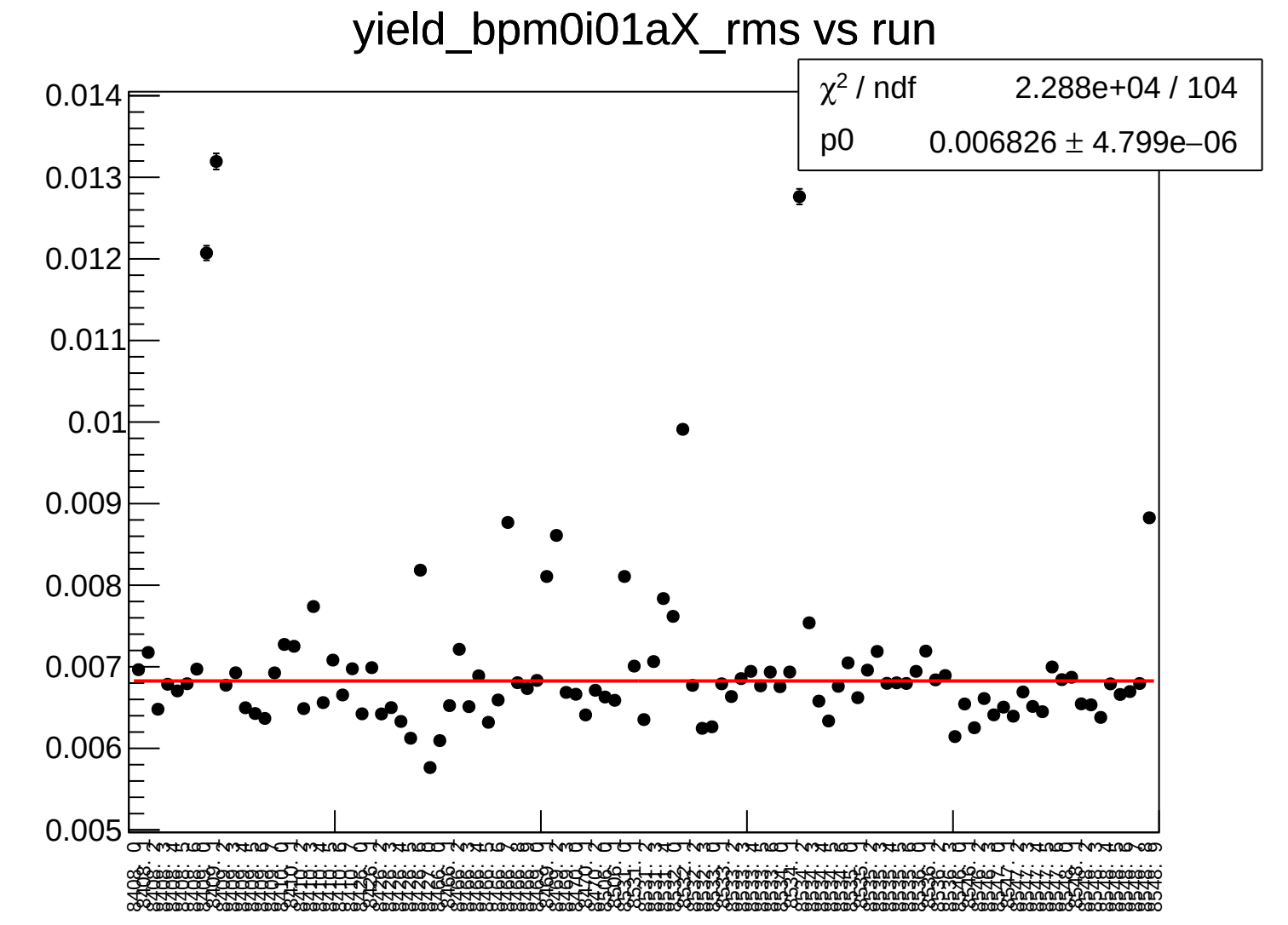

yield_bpm0i01Y_mean vs run
χ² / ndf 1.88e+06 / 104
p0 −1.419 ± 5.618e−06
−1.4
−1.405
−1.41
−1.415
−1.42
−1.425
−1.43
−1.435
pull
Entries 105
Mean 881.8
Std Dev 0
300
200
100
0
−100
−200
−300

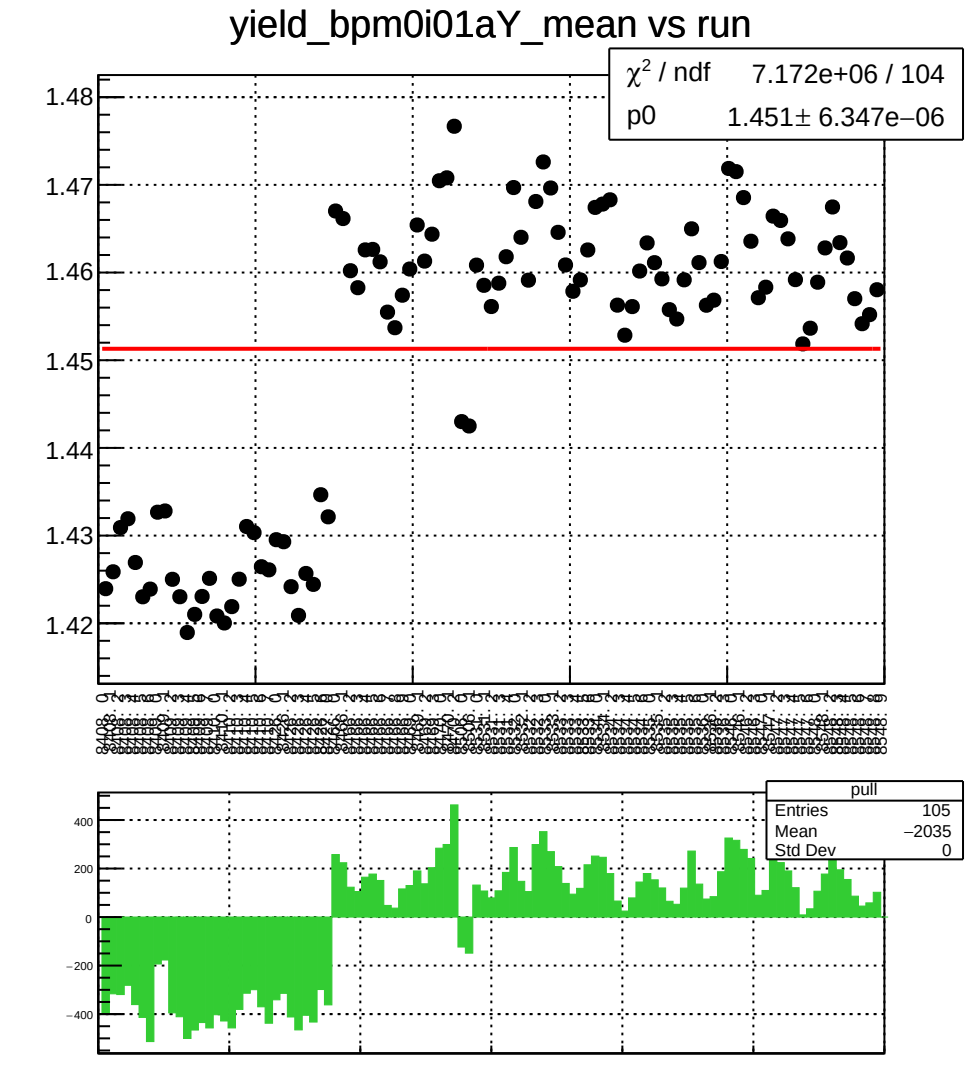

pull1D
Entries 105
Mean −2.961
Std Dev 3.608
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

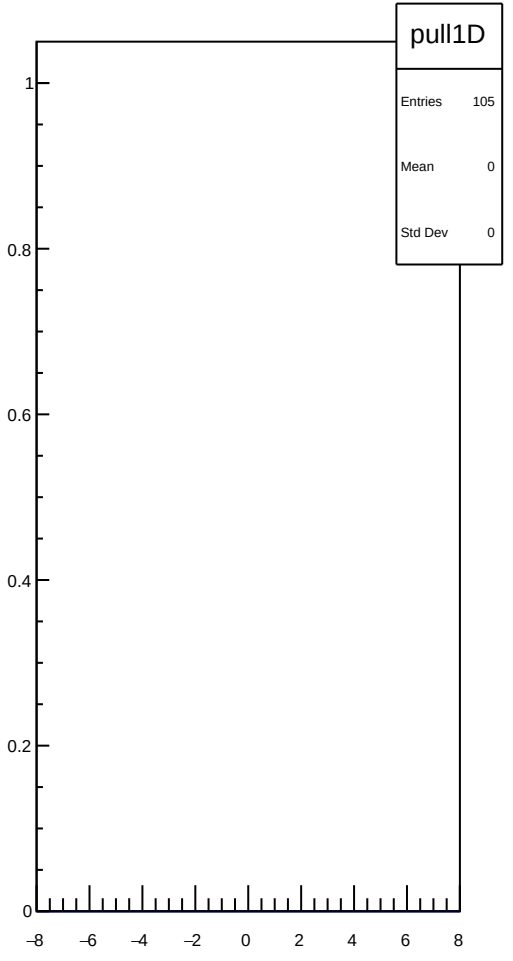

yield_bpm0i01Y_rms vs run
χ^2 / ndf 2.535e+04 / 104
p0 0.005647 ± 3.972e−06
0.014
0.012
0.01
0.008
0.006

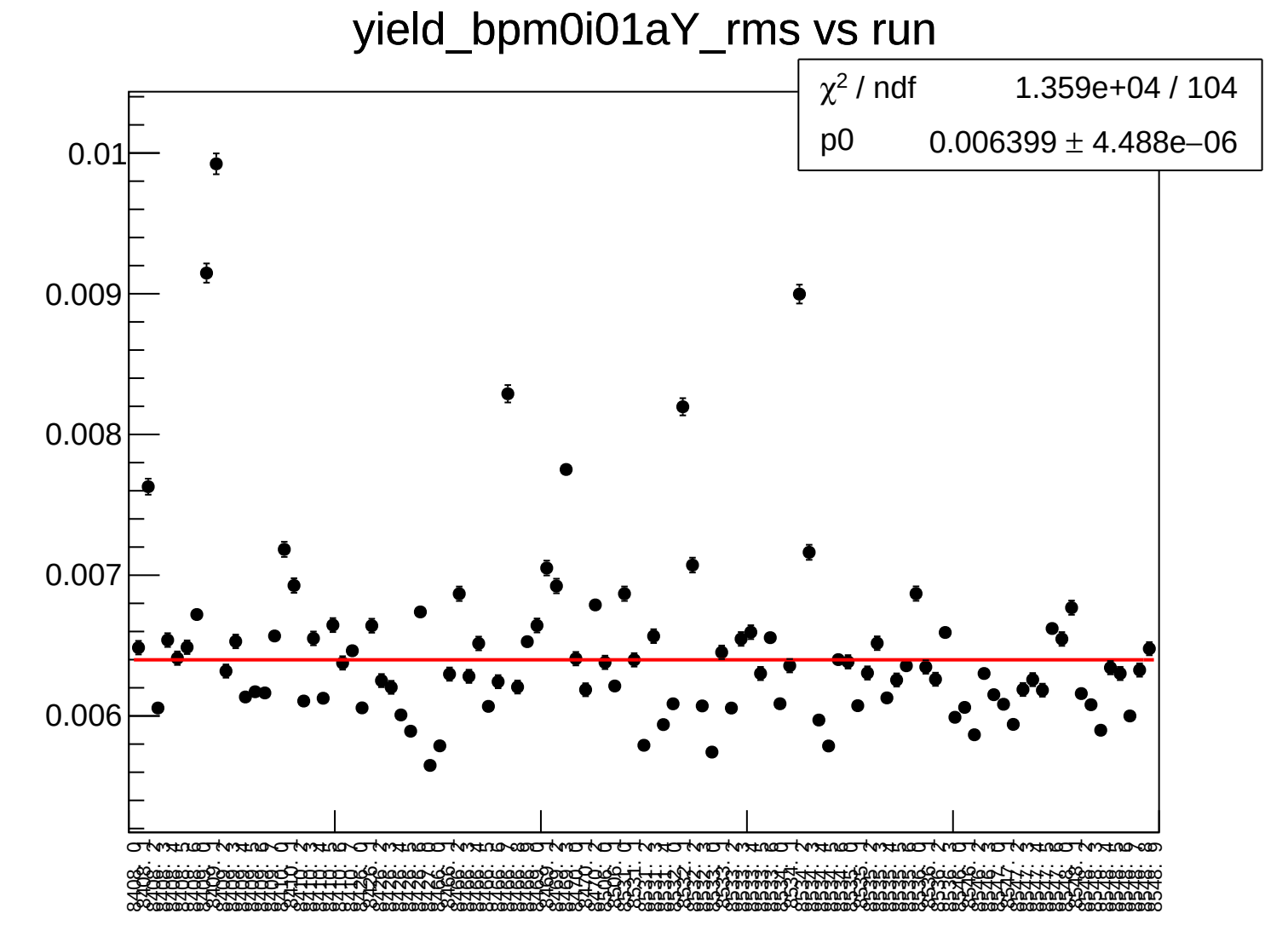

yield_bpm0i01aX_mean vs run
χ² / ndf 8.57e+06 / 104
p0 −1.88 ± 6.787e−06
−1.85
−1.86
−1.87
−1.88
−1.89
−1.9
−1.91
pull
Entries 105
Mean −3.275e+04
Std Dev 0
400
200
0
−200
−400

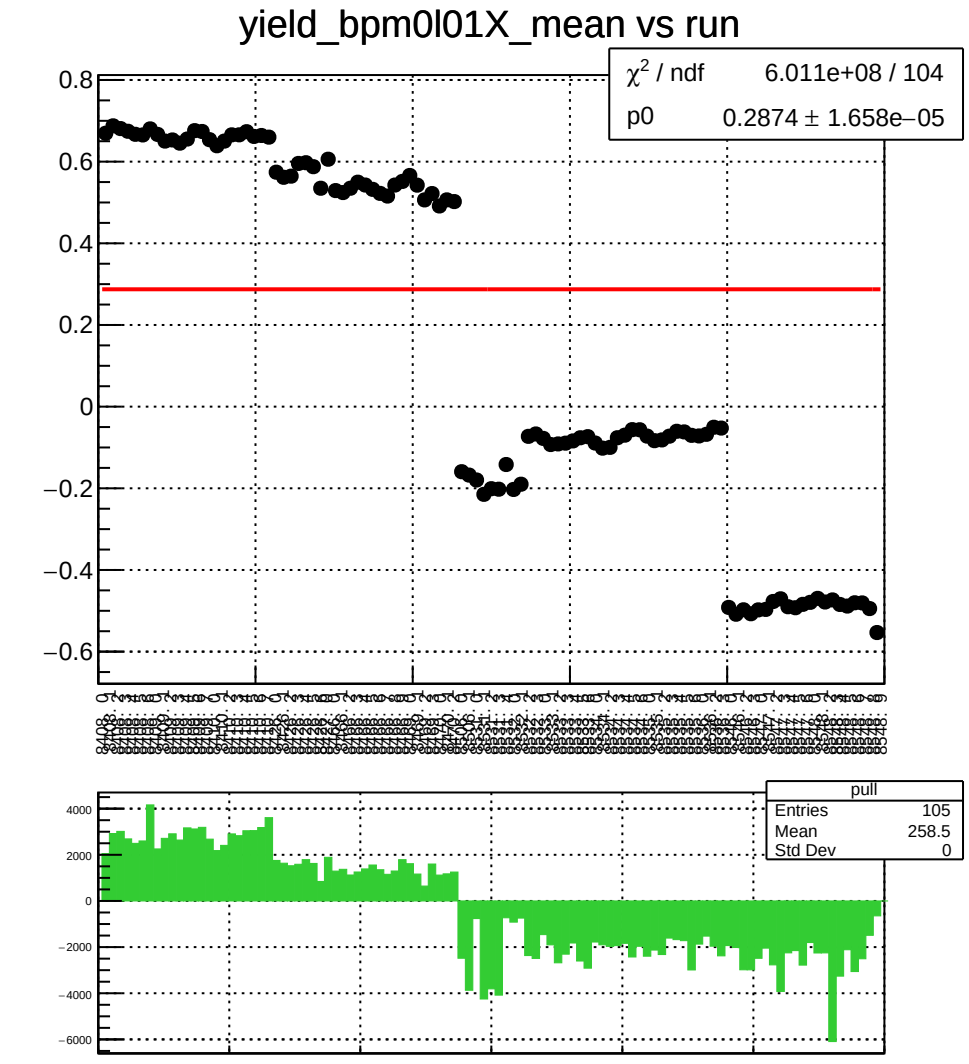

pull1D
Entries 105
Mean 1.732
Std Dev 4.229
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

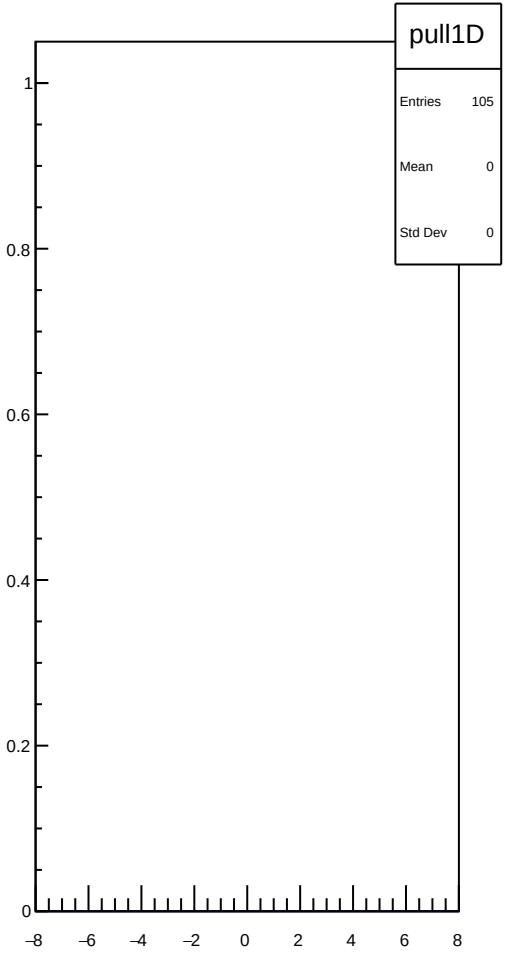

yield_bpm0i01aX_rms vs run
χ² / ndf 2.288e+04 / 104
p0 0.006826 ± 4.799e−06
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005

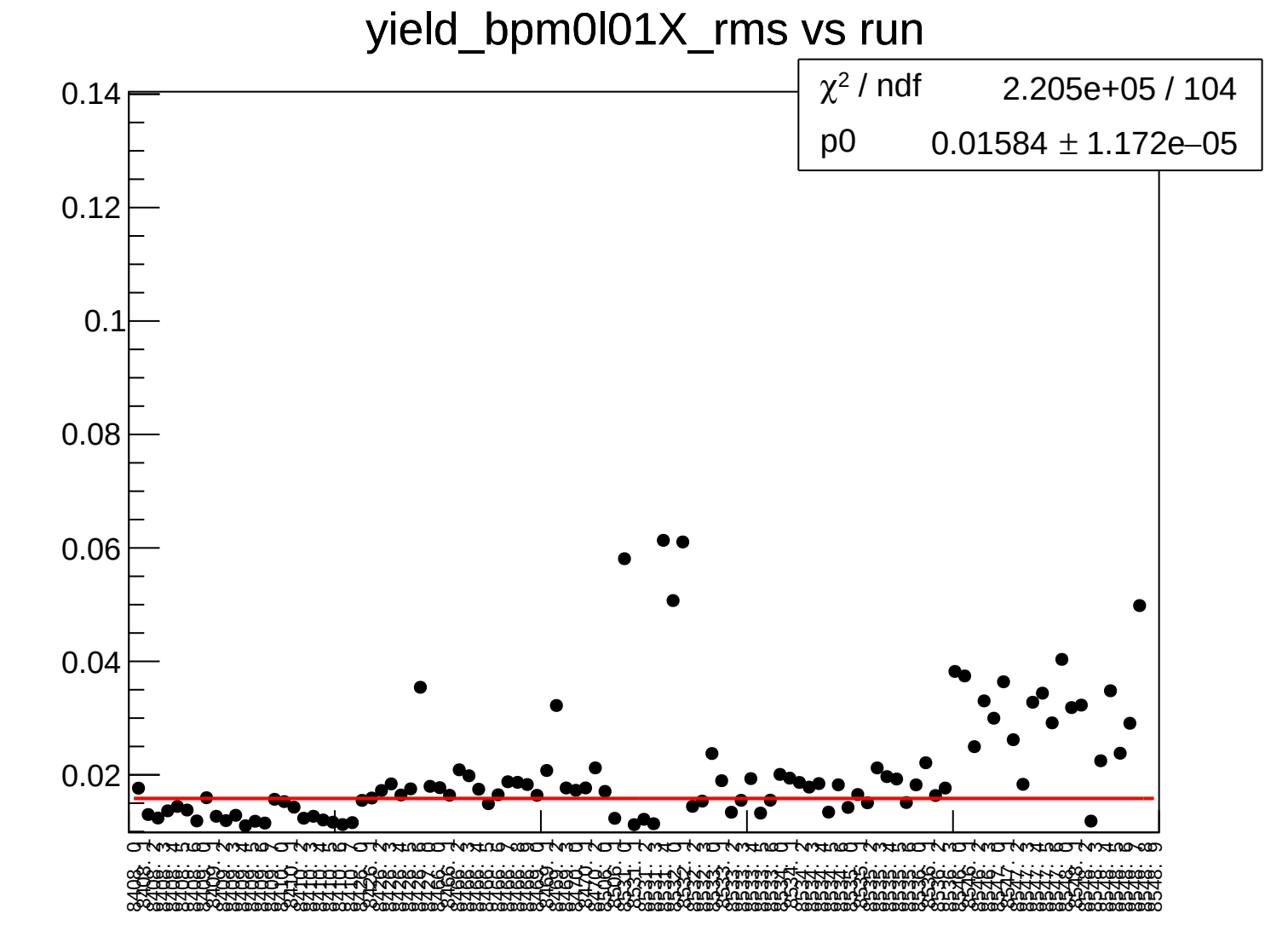

yield_bpm0i01aY_mean vs run
χ² / ndf 7.172e+06 / 104
p0 1.451± 6.347e−06
1.48
1.47
1.46
1.45
1.44
1.43
1.42
pull
Entries 105
Mean −2035
Std Dev 0
400
200
0
−200
−400

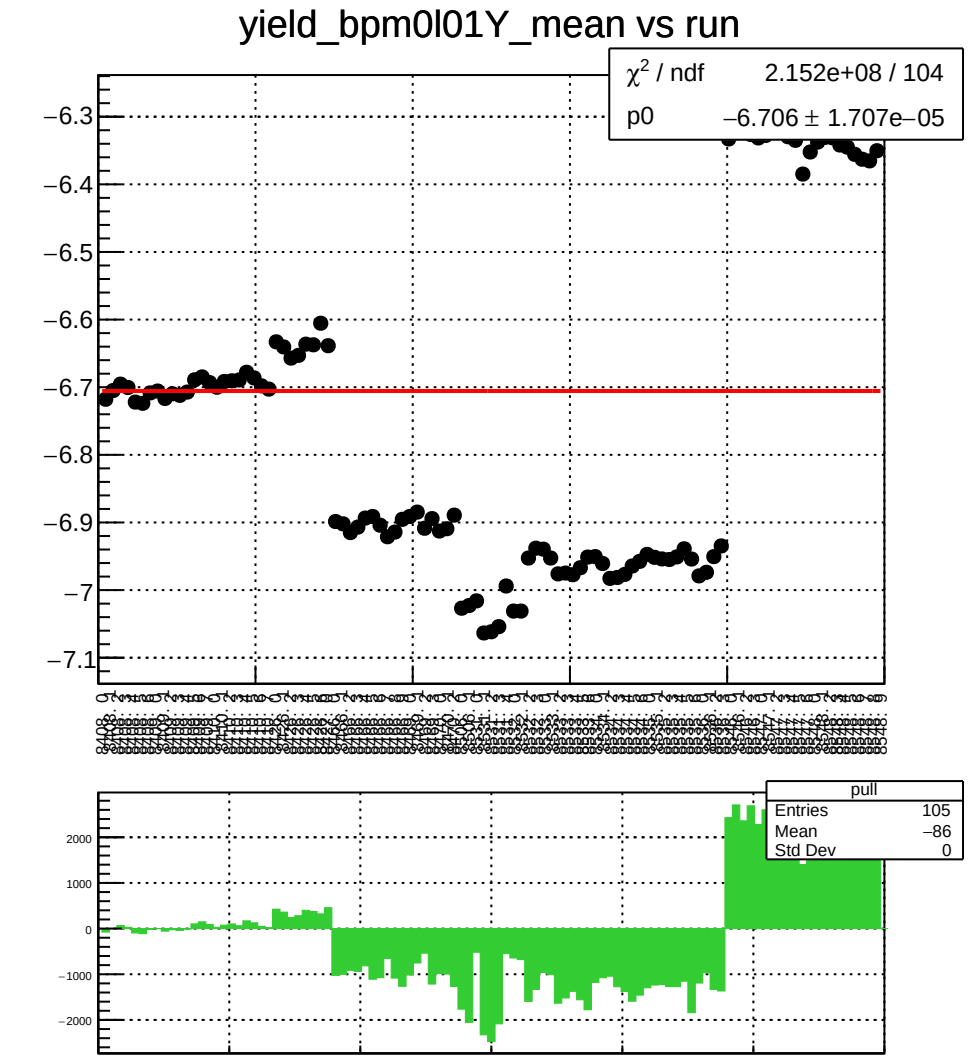

pull1D
Entries 105
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

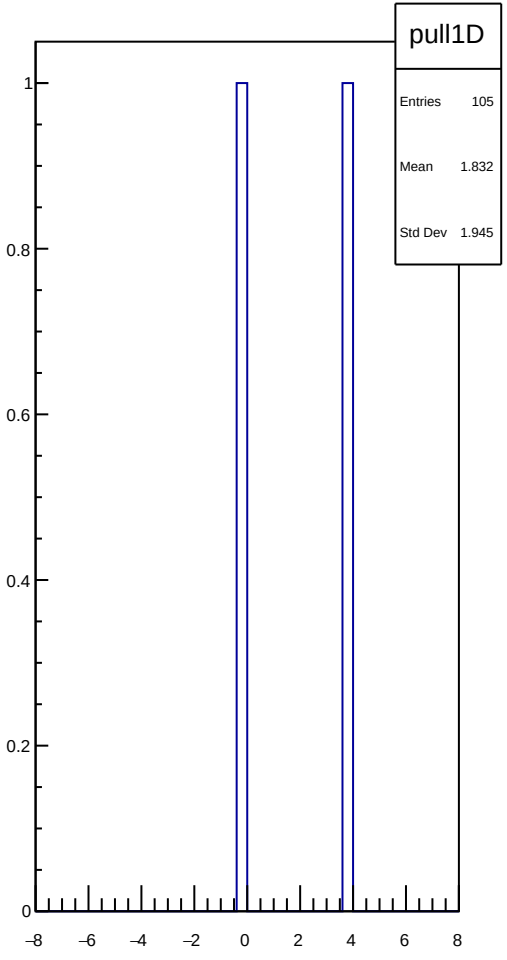

yield_bpm0i01aY_rms vs run
χ² / ndf 1.359e+04 / 104
p0 0.006399 ± 4.488e−06
0.01
0.009
0.008
0.007
0.006

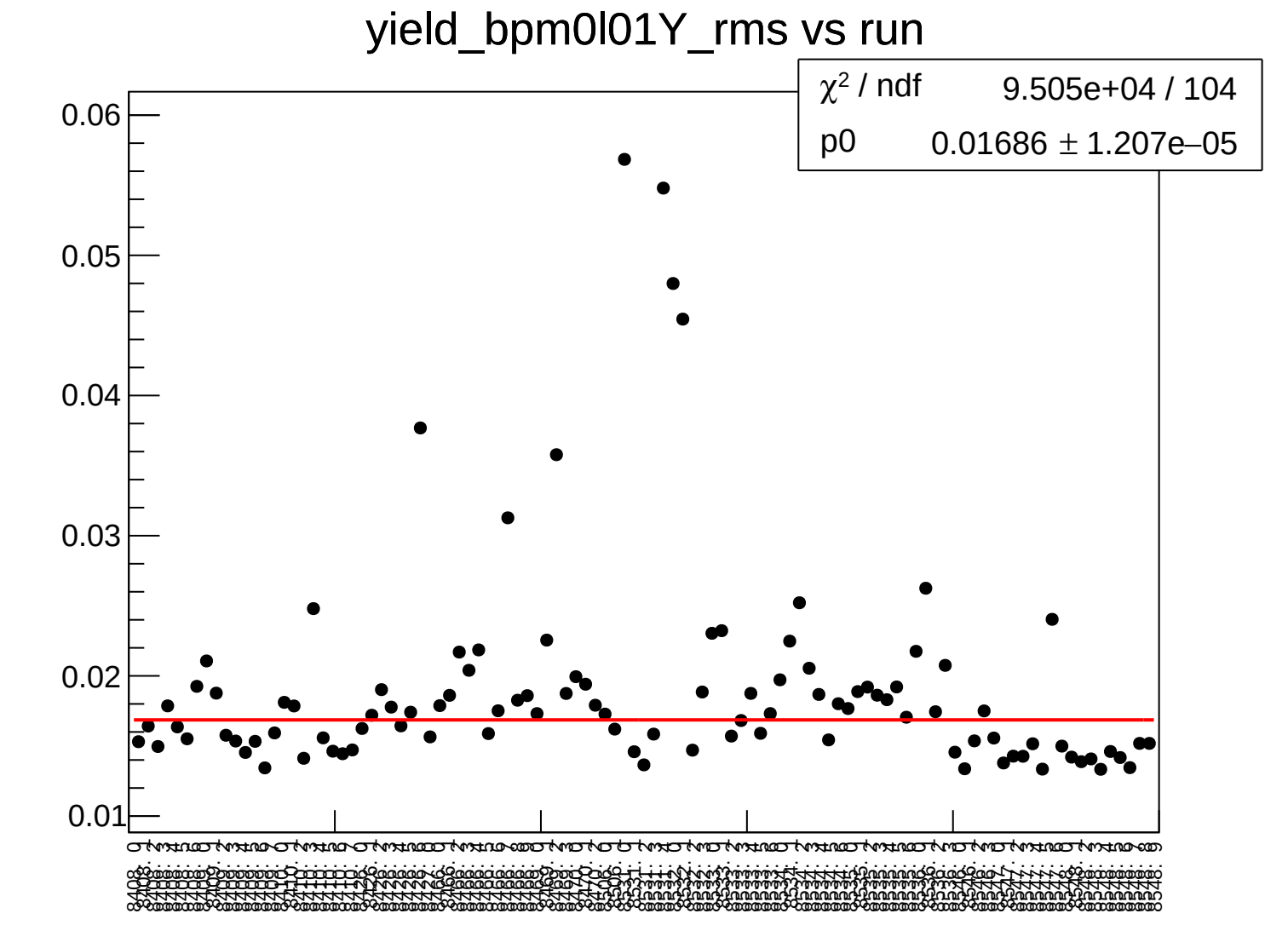

yield_bpm0l01X_mean vs run
χ² / ndf 6.011e+08 / 104
p0 0.2874 ± 1.658e−05
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 105
Mean 258.5
Std Dev 0
4000
2000
0
−2000
−4000
−6000

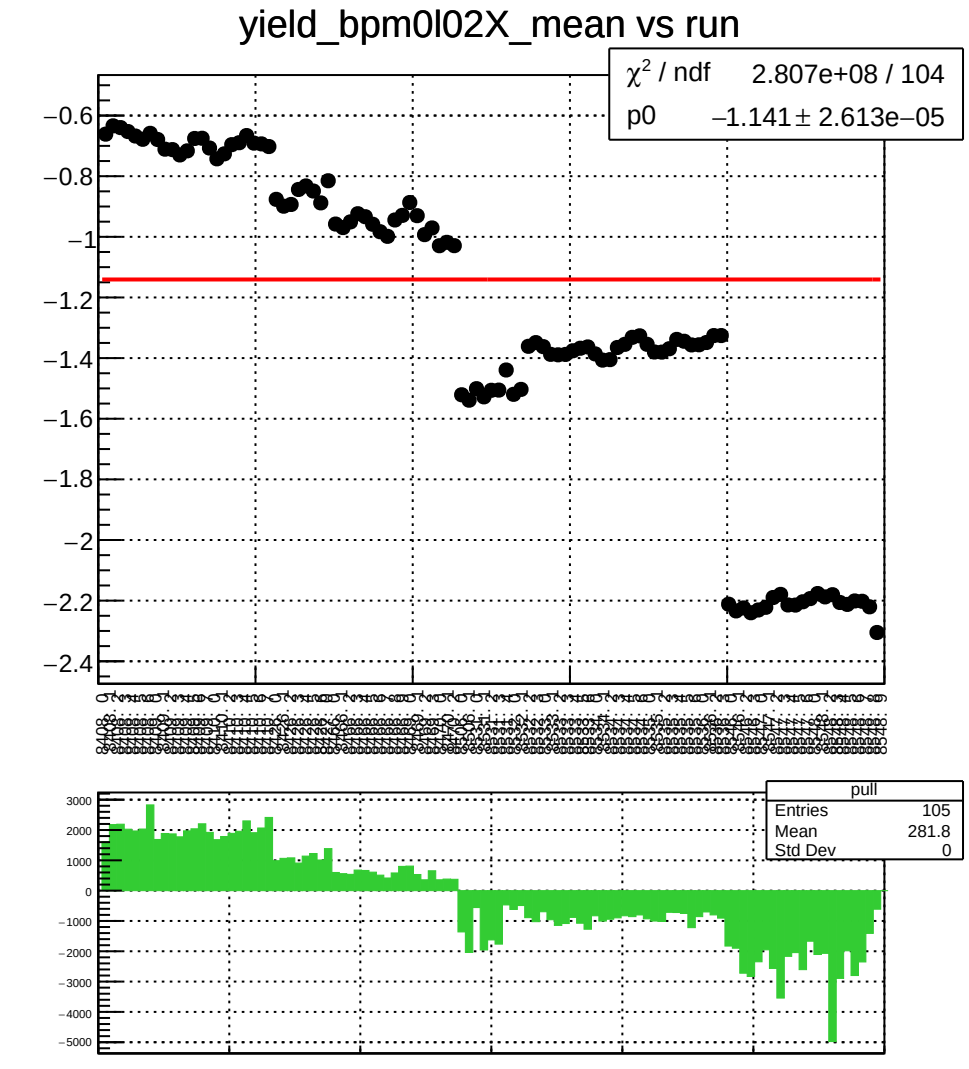

pull1D
Entries 105
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

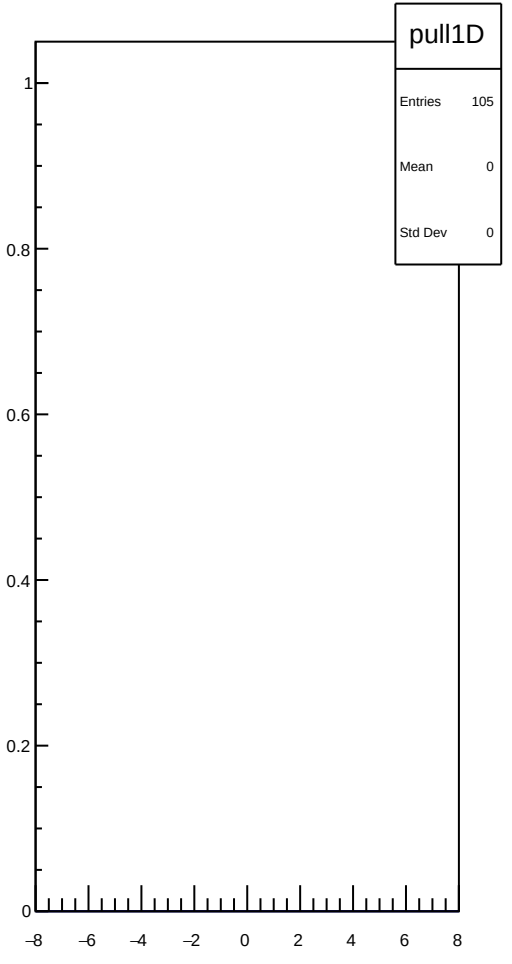

yield_bpm0l01X_rms vs run
χ² / ndf 2.205e+05 / 104
p0 0.01584 ± 1.172e–05
0.14
0.12
0.1
0.08
0.06
0.04
0.02

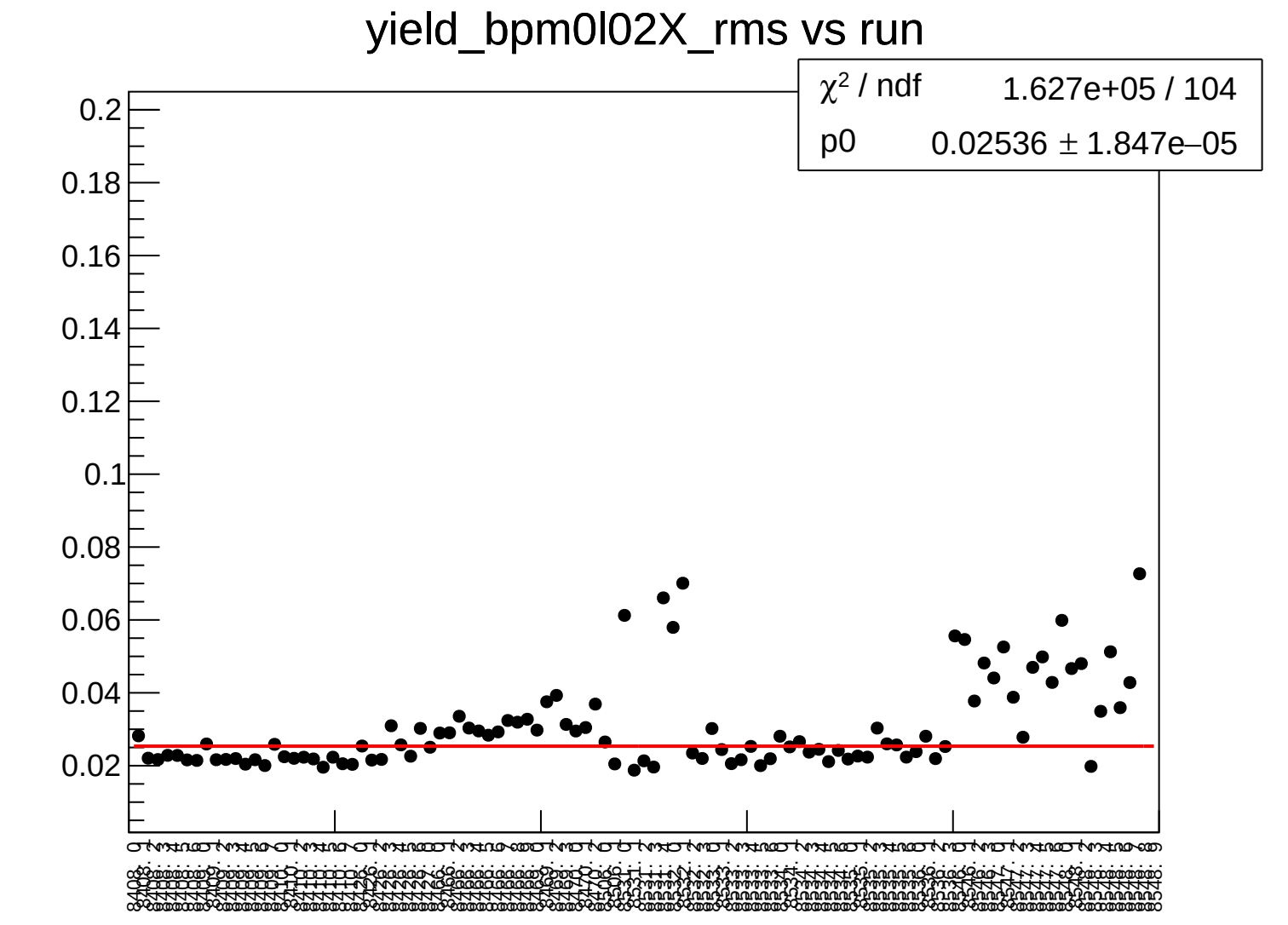

yield_bpm0l01Y_mean vs run
χ² / ndf 2.152e+08 / 104
p0 −6.706 ± 1.707e−05
−6.3
−6.4
−6.5
−6.6
−6.7
−6.8
−6.9
−7
−7.1
pull
Entries 105
Mean −86
Std Dev 0
2000
1000
0
−1000
−2000

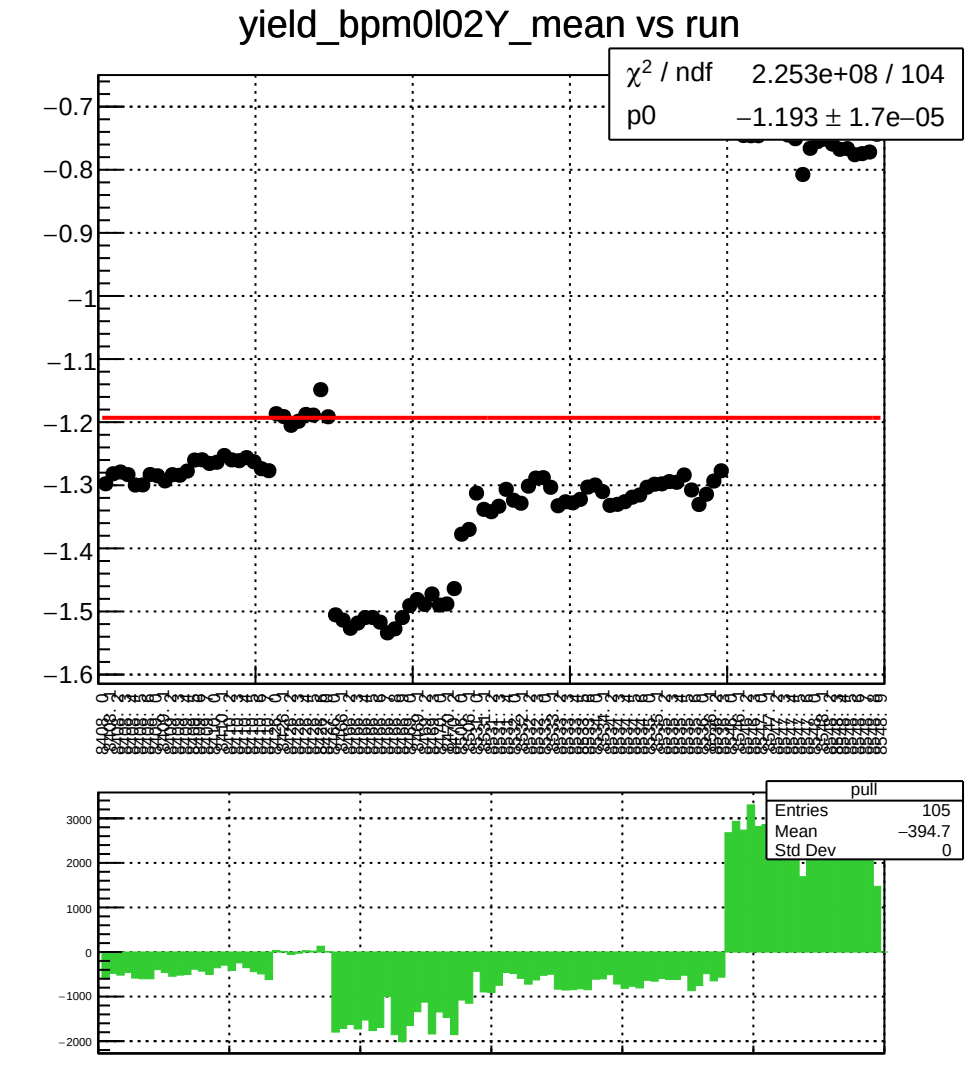

pull1D
Entries 105
Mean 1.832
Std Dev 1.945
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

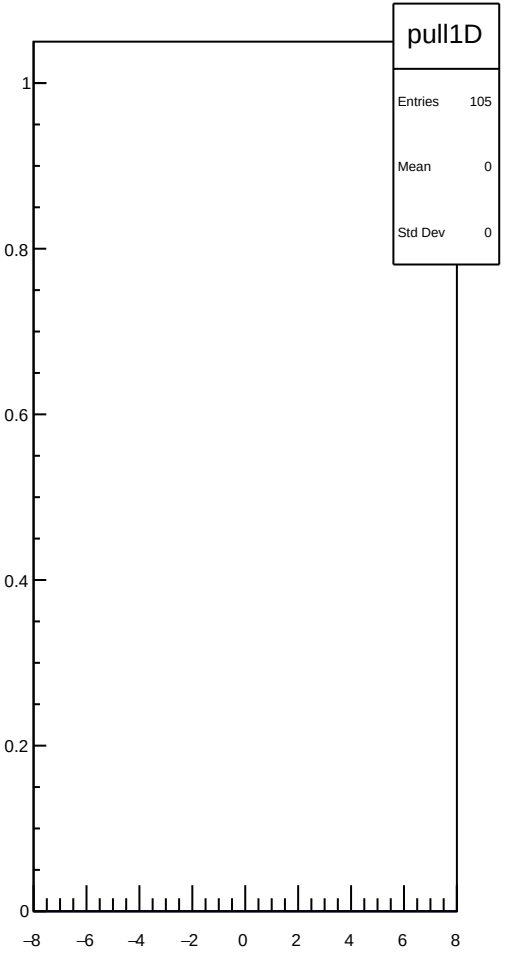

yield_bpm0l01Y_rms vs run
χ² / ndf 9.505e+04 / 104
p0 0.01686 ± 1.207e–05
0.06
0.05
0.04
0.03
0.02
0.01

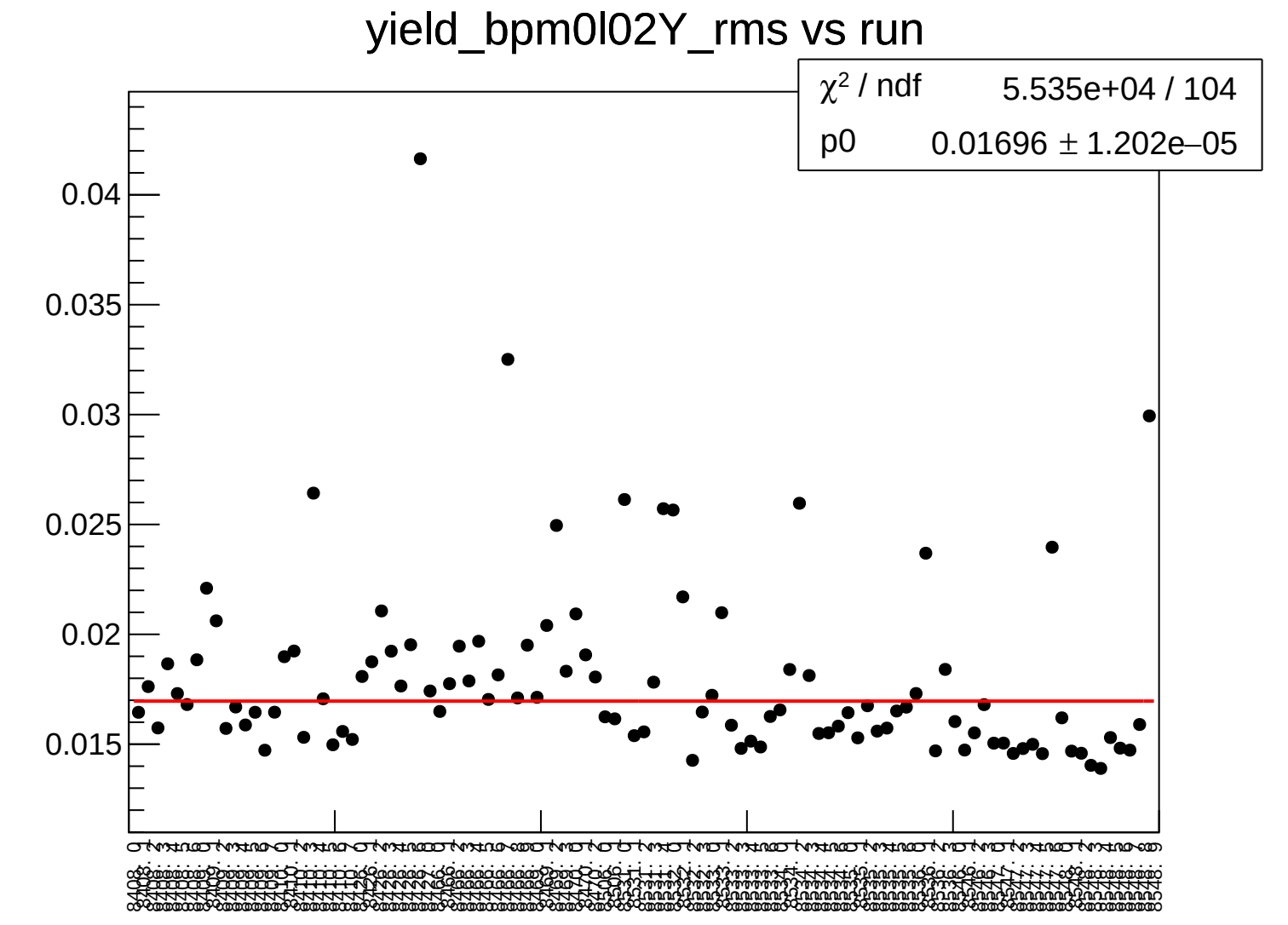

yield_bpm0l02X_mean vs run
χ² / ndf 2.807e+08 / 104
p0 −1.141 ± 2.613e−05
−0.6
−0.8
−1
−1.2
−1.4
−1.6
−1.8
−2
−2.2
−2.4
pull
Entries 105
Mean 281.8
Std Dev 0
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000

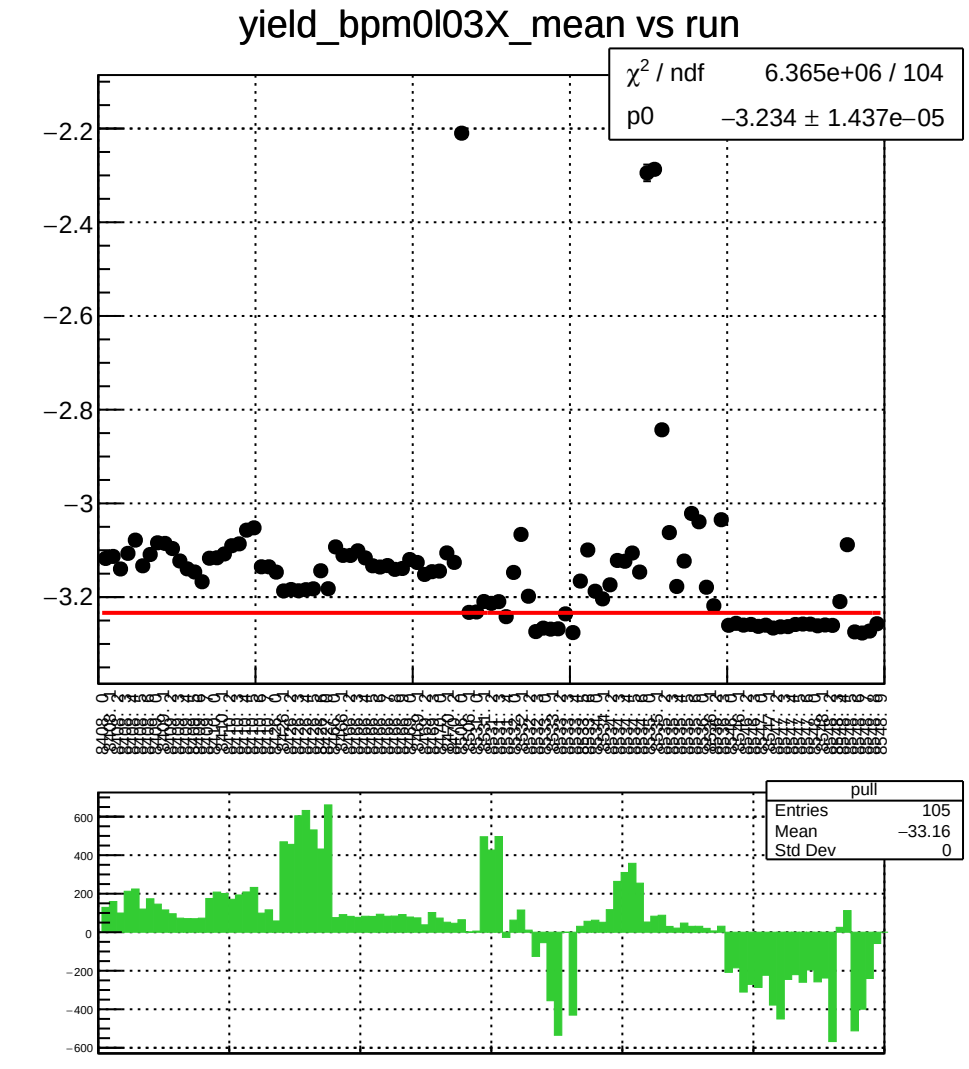

pull1D
Entries 105
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

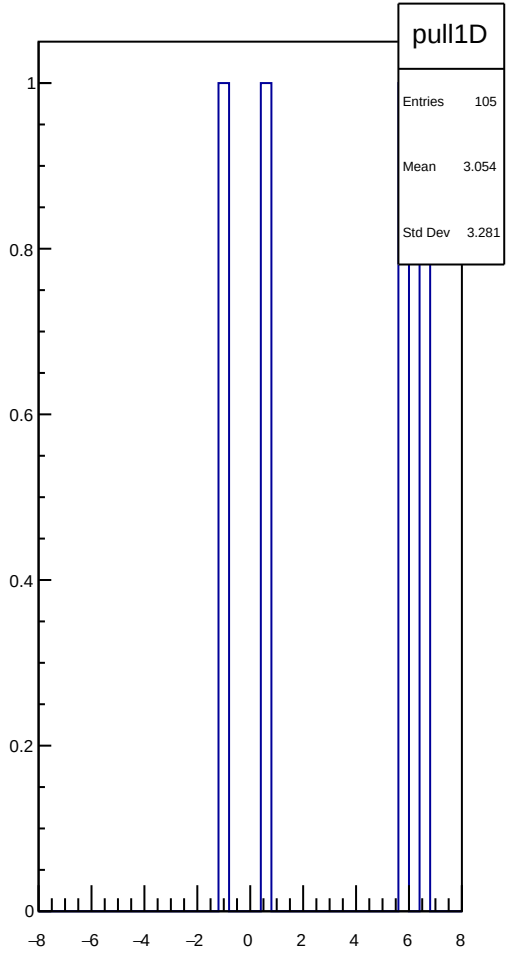

yield_bpm0l02X_rms vs run
χ² / ndf 1.627e+05 / 104
p0 0.02536 ± 1.847e–05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

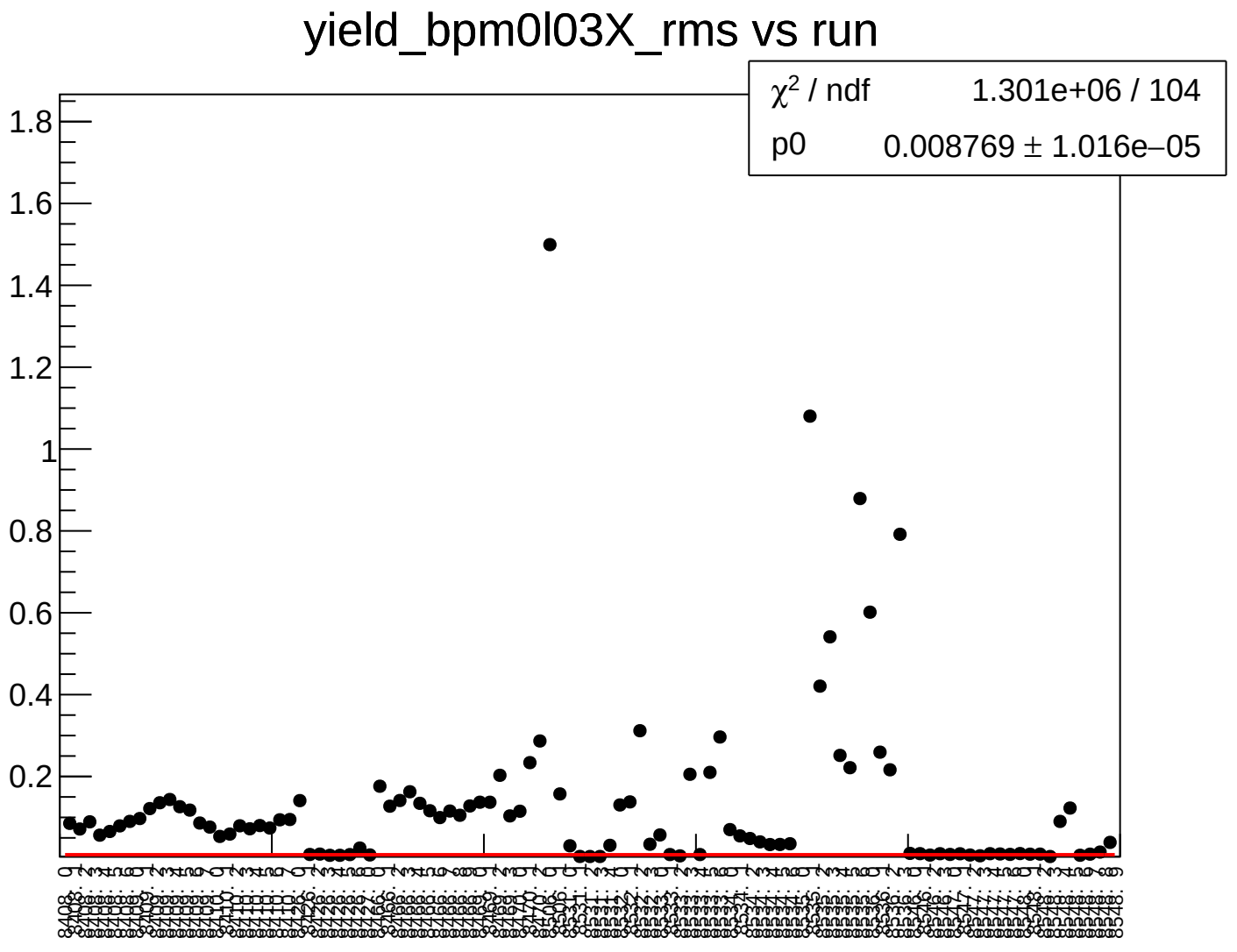

yield_bpm0l02Y_mean vs run
χ² / ndf 2.253e+08 / 104
p0 −1.193 ± 1.7e−05
−0.7
−0.8
−0.9
−1
−1.1
−1.2
−1.3
−1.4
−1.5
−1.6
pull
Entries 105
Mean −394.7
Std Dev 0
3000
2000
1000
0
−1000
−2000

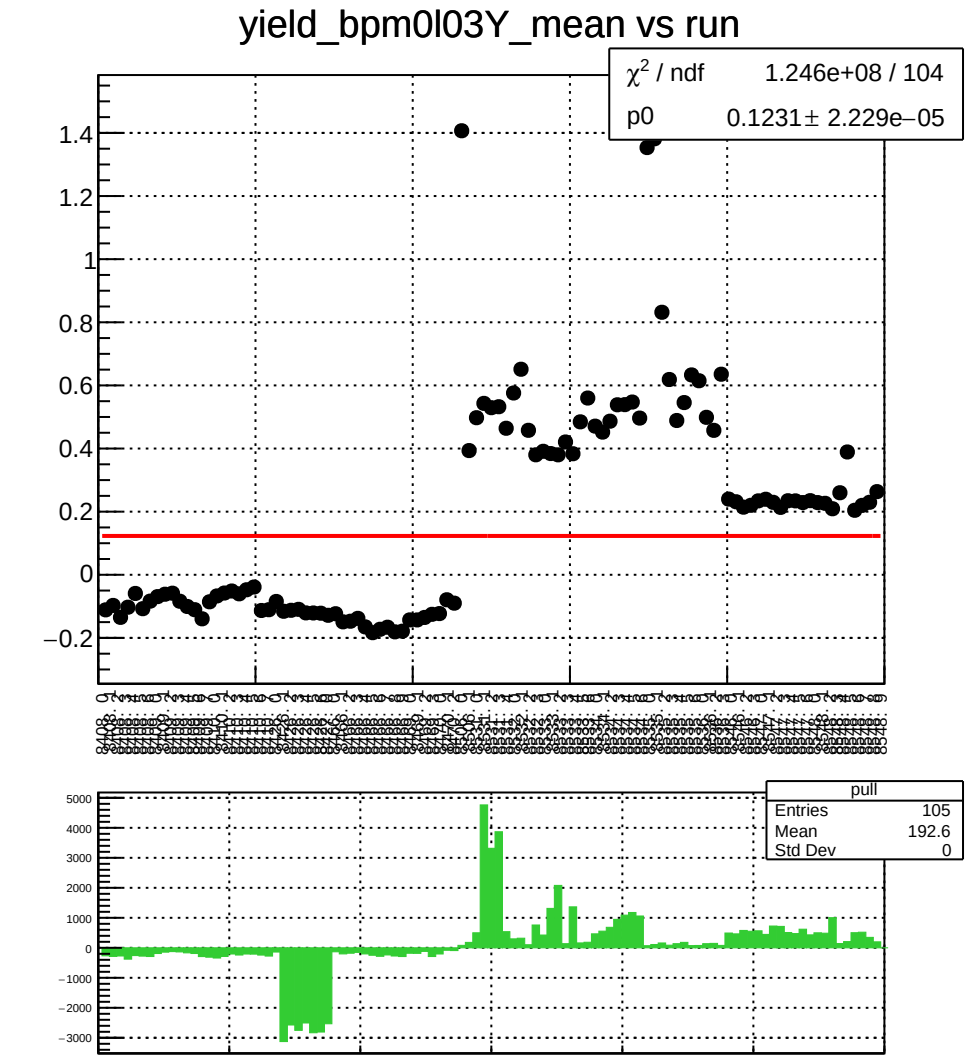

pull1D
Entries 105
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

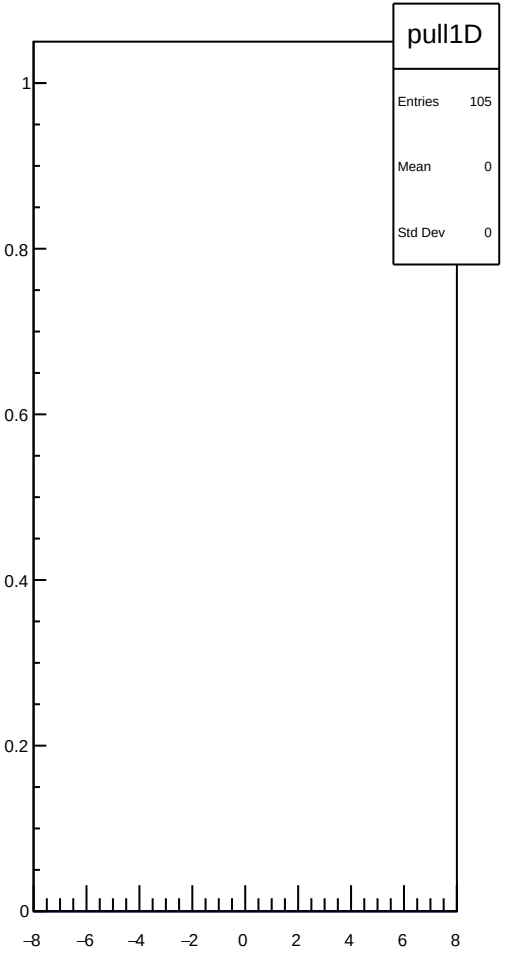

yield_bpm0l02Y_rms vs run
χ² / ndf 5.535e+04 / 104
p0 0.01696 ± 1.202e−05
0.04
0.035
0.03
0.025
0.02
0.015

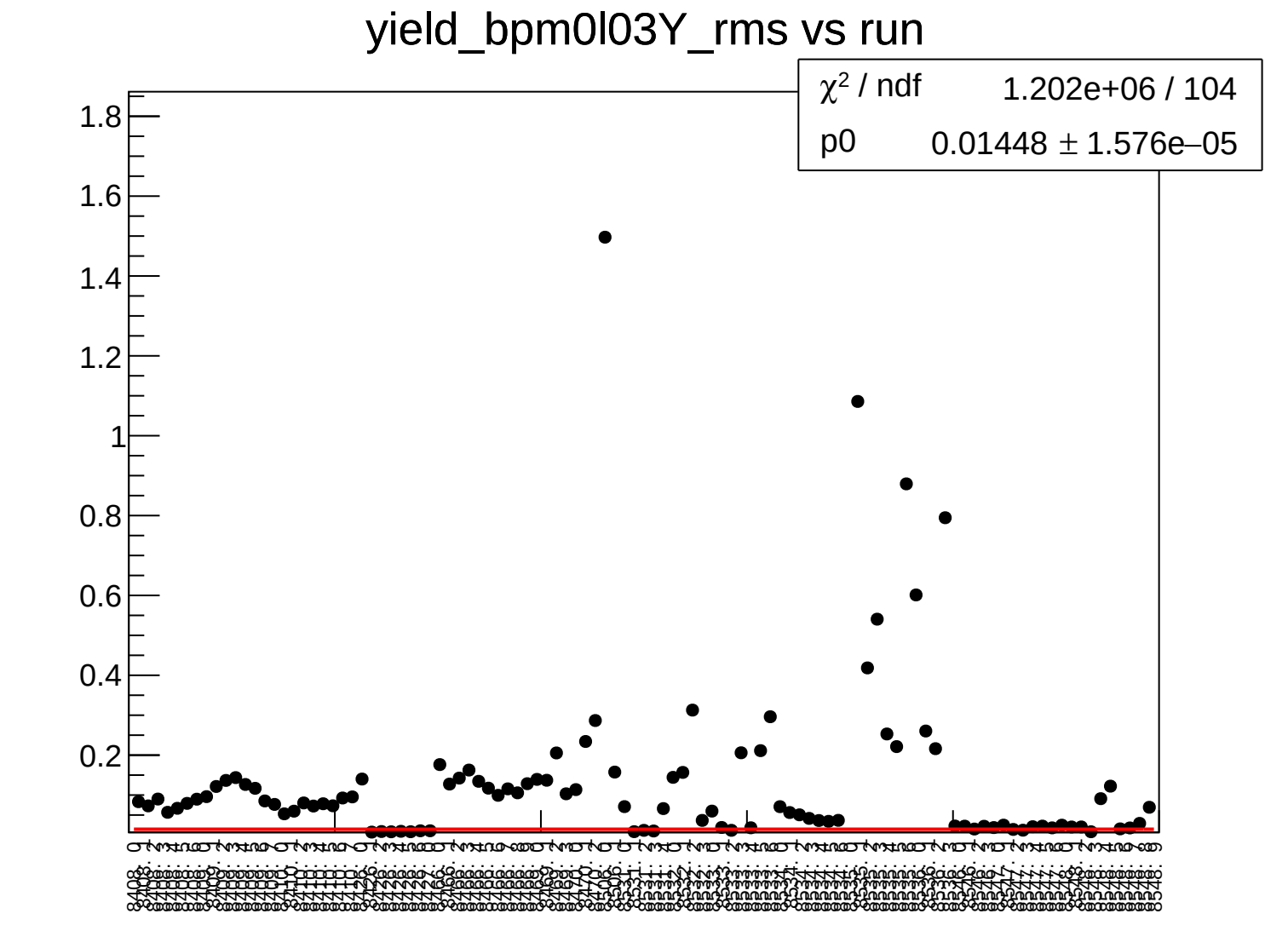

yield_bpm0l03X_mean vs run
χ² / ndf 6.365e+06 / 104
p0 −3.234 ± 1.437e−05
−2.2
−2.4
−2.6
−2.8
−3
−3.2
pull
Entries 105
Mean −33.16
Std Dev 0
600
400
200
0
−200
−400
−600

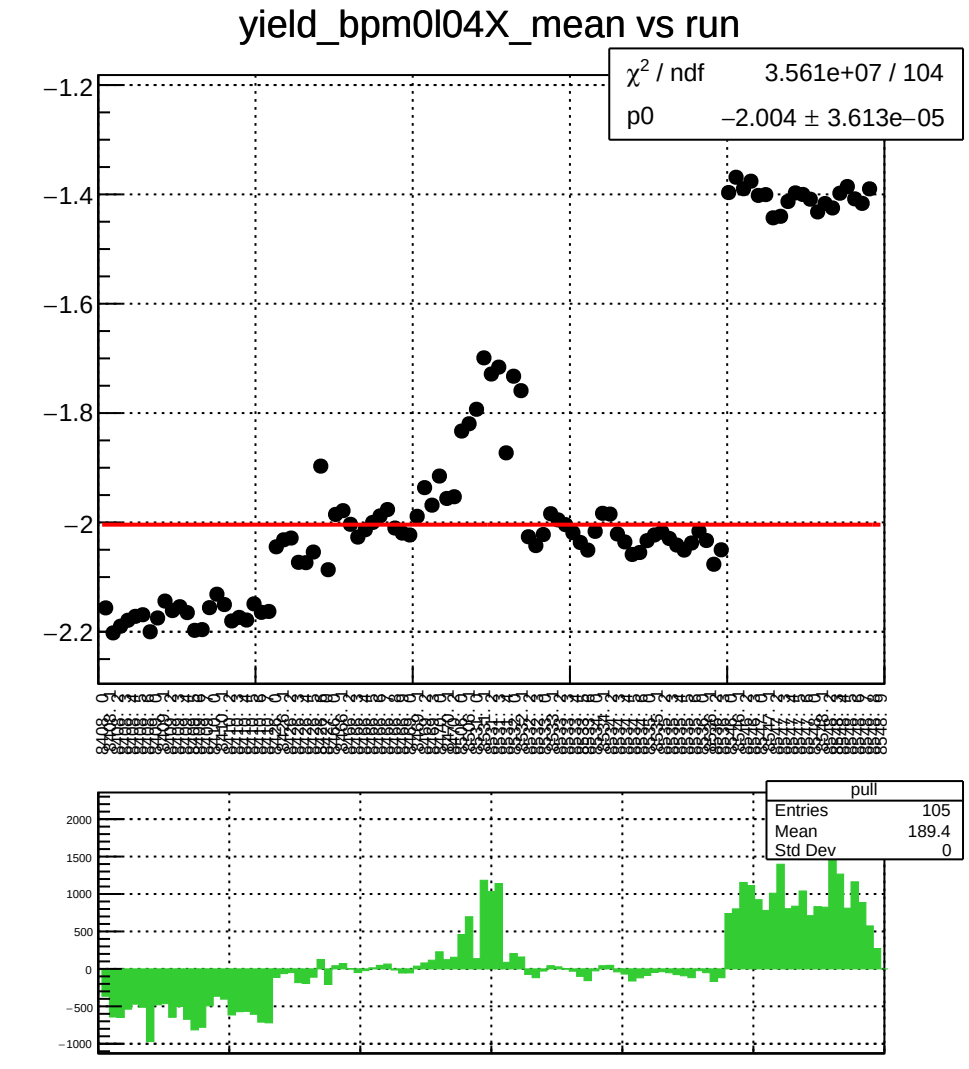

pull1D
Entries 105
Mean 3.054
Std Dev 3.281
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

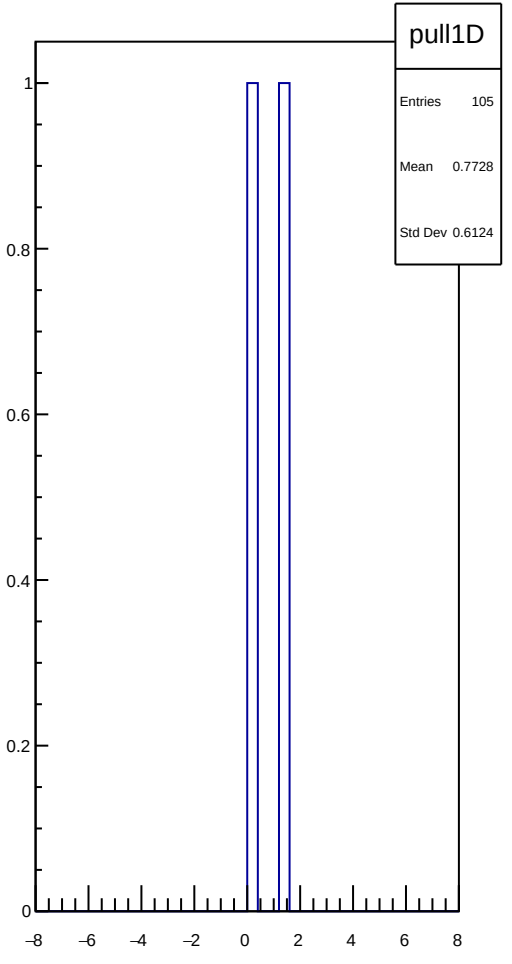

yield_bpm0l03X_rms vs run
χ² / ndf 1.301e+06 / 104
p0 0.008769 ± 1.016e−05
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

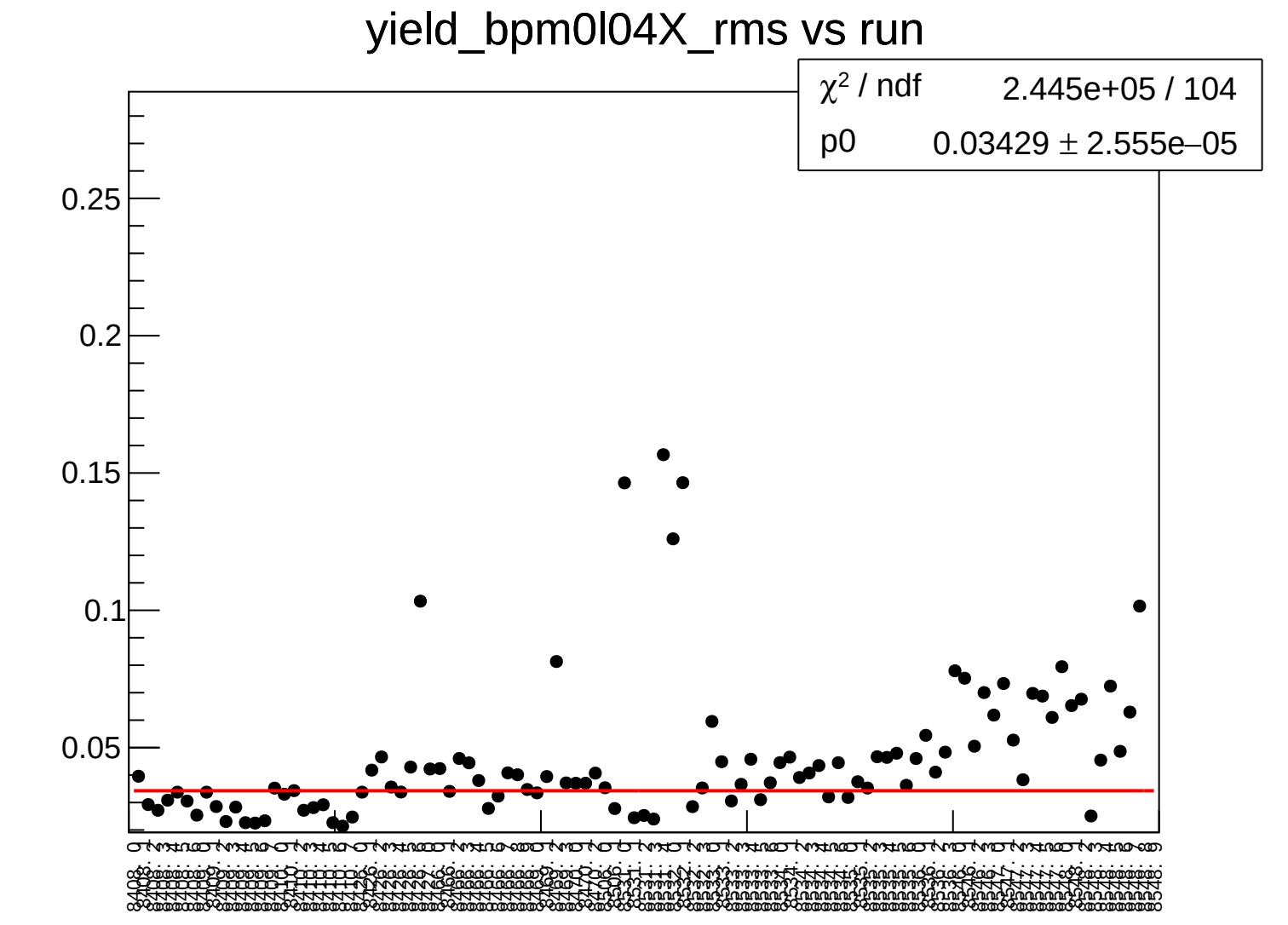

yield_bpm0l03Y_mean vs run
χ² / ndf 1.246e+08 / 104
p0 0.1231 ± 2.229e−05
pull
Entries 105
Mean 192.6
Std Dev 0

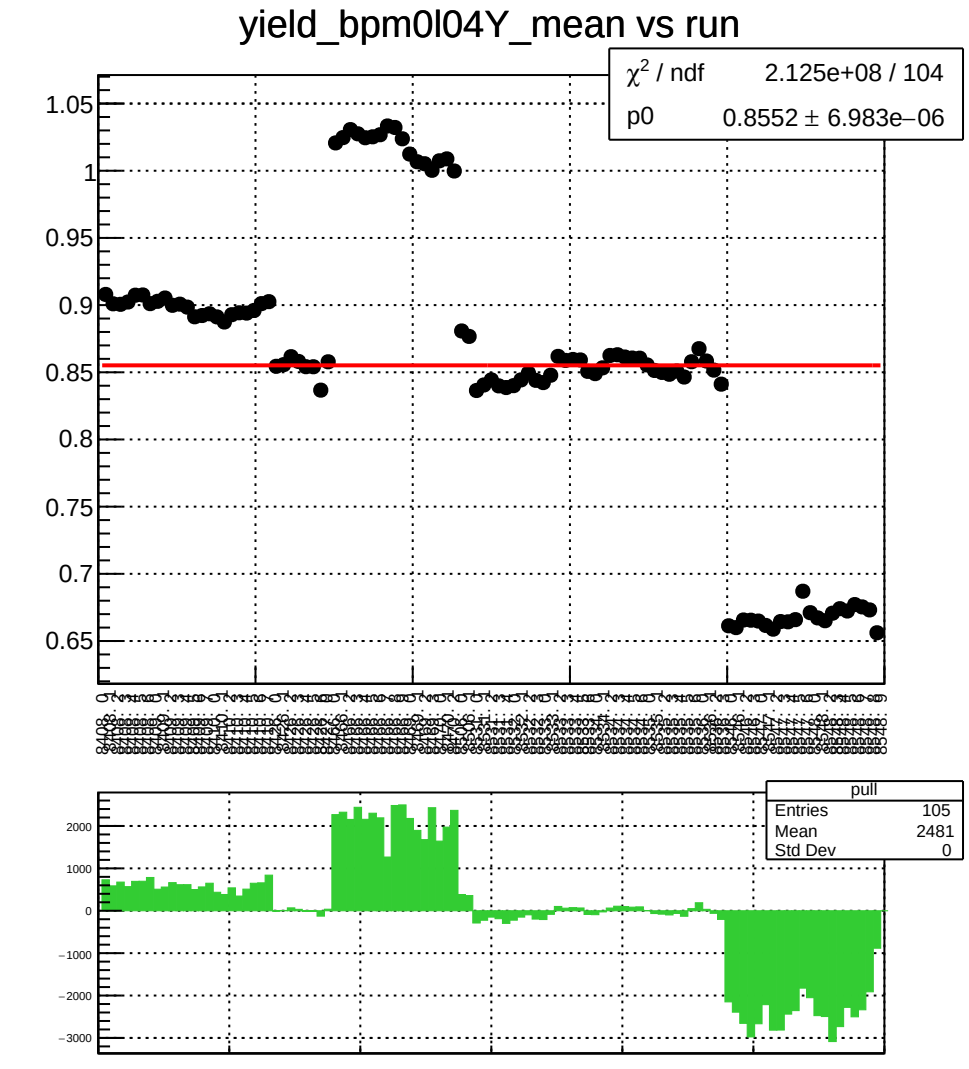

pull1D
Entries 105
Mean 0
Std Dev 0

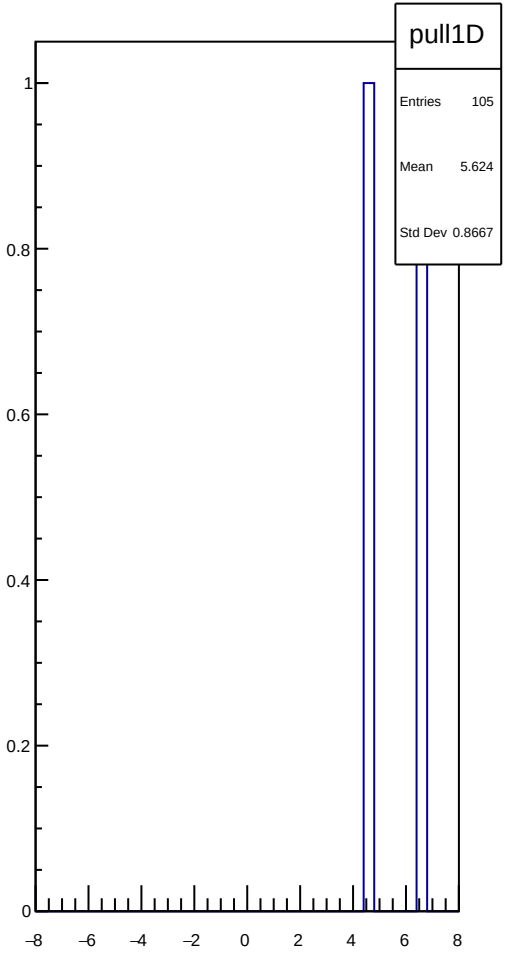

yield_bpm0l03Y_rms vs run
χ² / ndf 1.202e+06 / 104
p0 0.01448 ± 1.576e–05
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

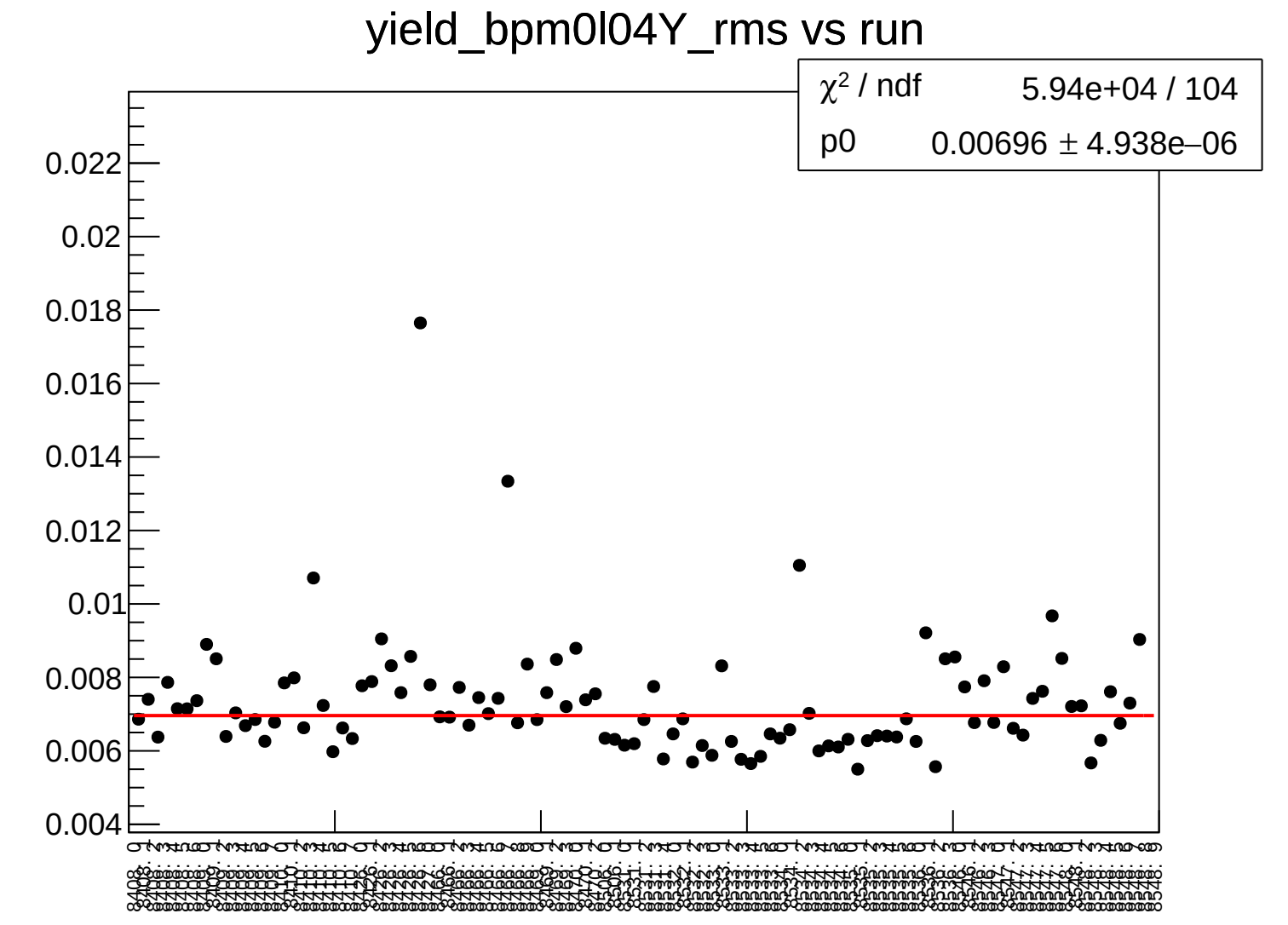

yield_bpm0l04X_mean vs run
χ² / ndf 3.561e+07 / 104
p0 −2.004 ± 3.613e−05
−1.2
−1.4
−1.6
−1.8
−2
−2.2
pull
Entries 105
Mean 189.4
Std Dev 0
2000
1500
1000
500
0
−500
−1000

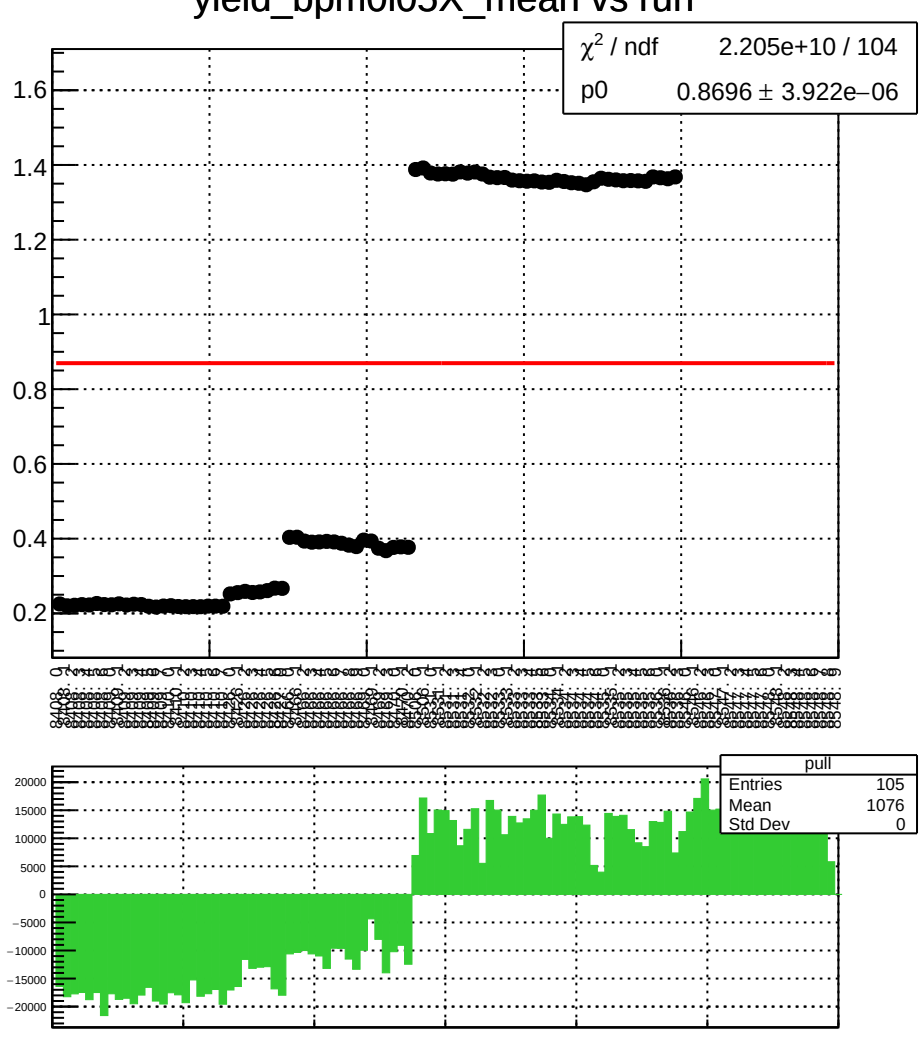

pull1D
Entries 105
Mean 0.7728
Std Dev 0.6124
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

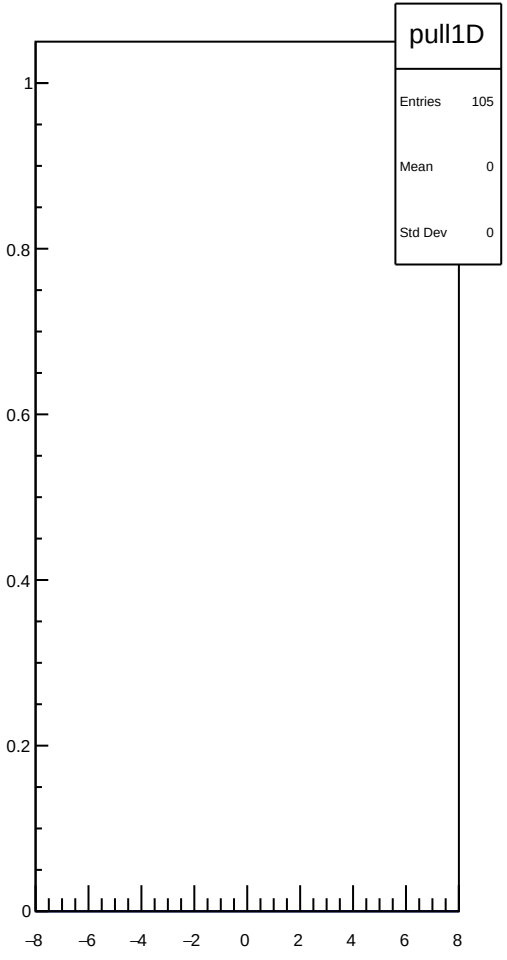

yield_bpm0l04X_rms vs run
χ² / ndf 2.445e+05 / 104
p0 0.03429 ± 2.555e−05
0.25
0.2
0.15
0.1
0.05

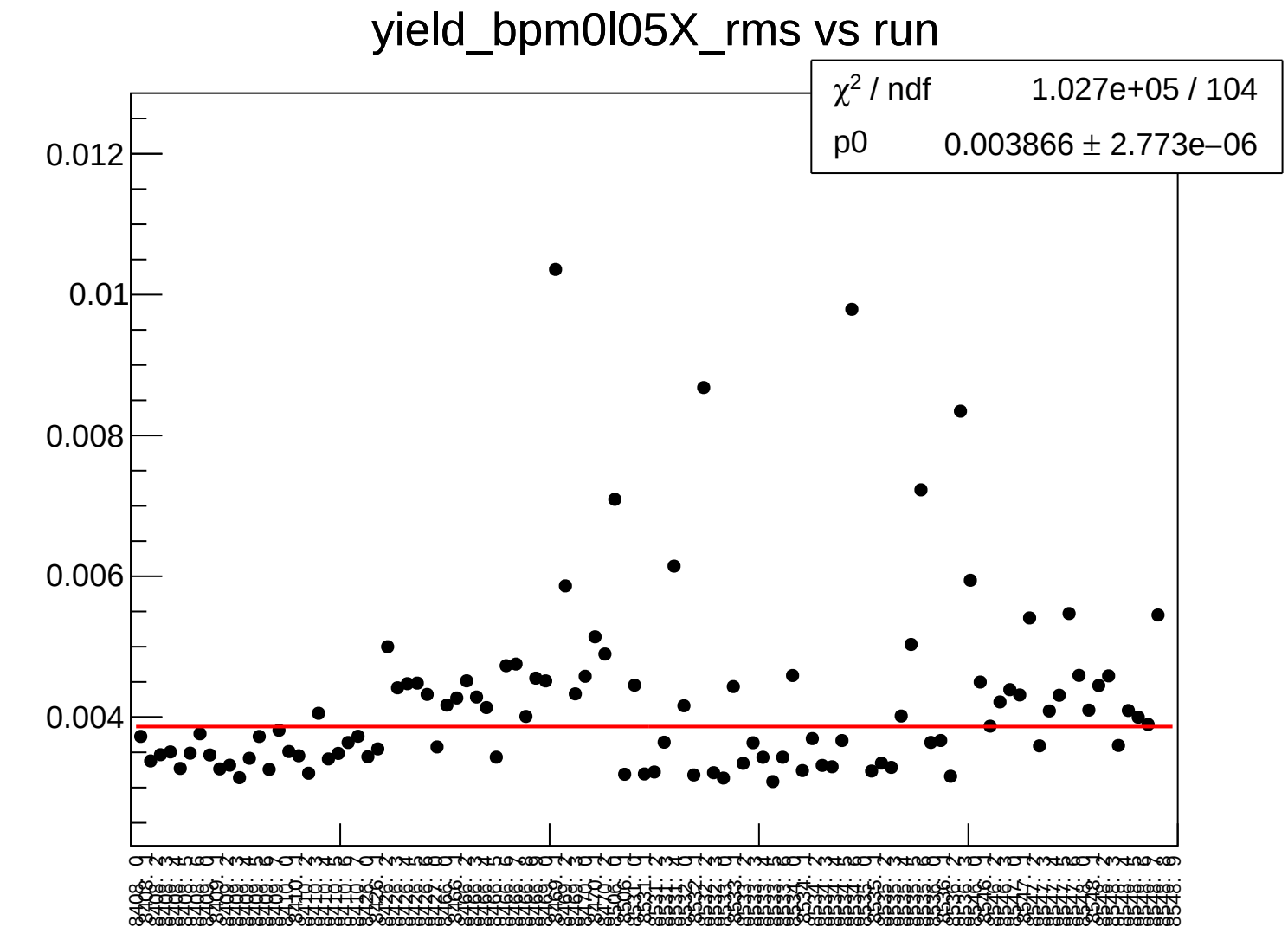

yield_bpm0l04Y_mean vs run
χ² / ndf 2.125e+08 / 104
p0 0.8552 ± 6.983e−06
1.05
1
0.95
0.9
0.85
0.8
0.75
0.7
0.65
pull
Entries 105
Mean 2481
Std Dev 0
2000
1000
0
−1000
−2000
−3000

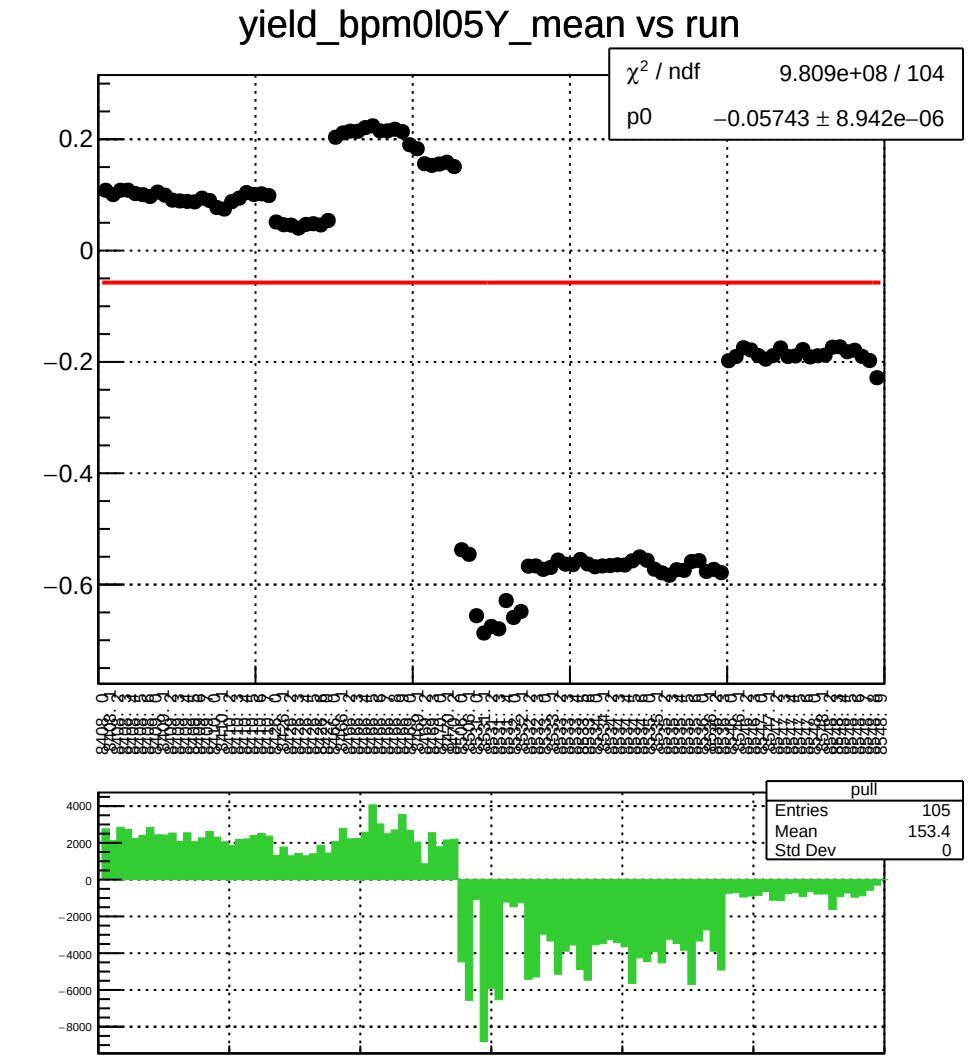

pull1D
Entries 105
Mean 5.624
Std Dev 0.8667
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

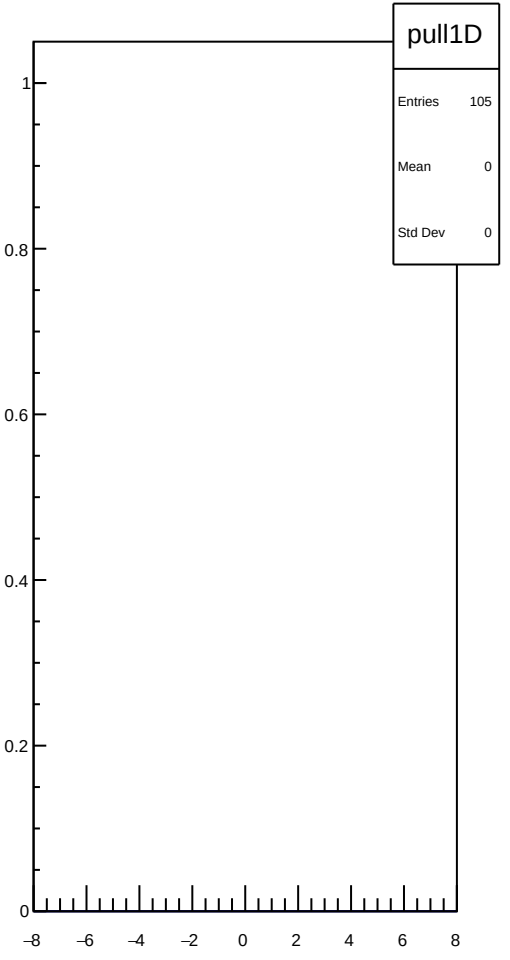

yield_bpm0l04Y_rms vs run
χ² / ndf 5.94e+04 / 104
p0 0.00696 ± 4.938e–06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

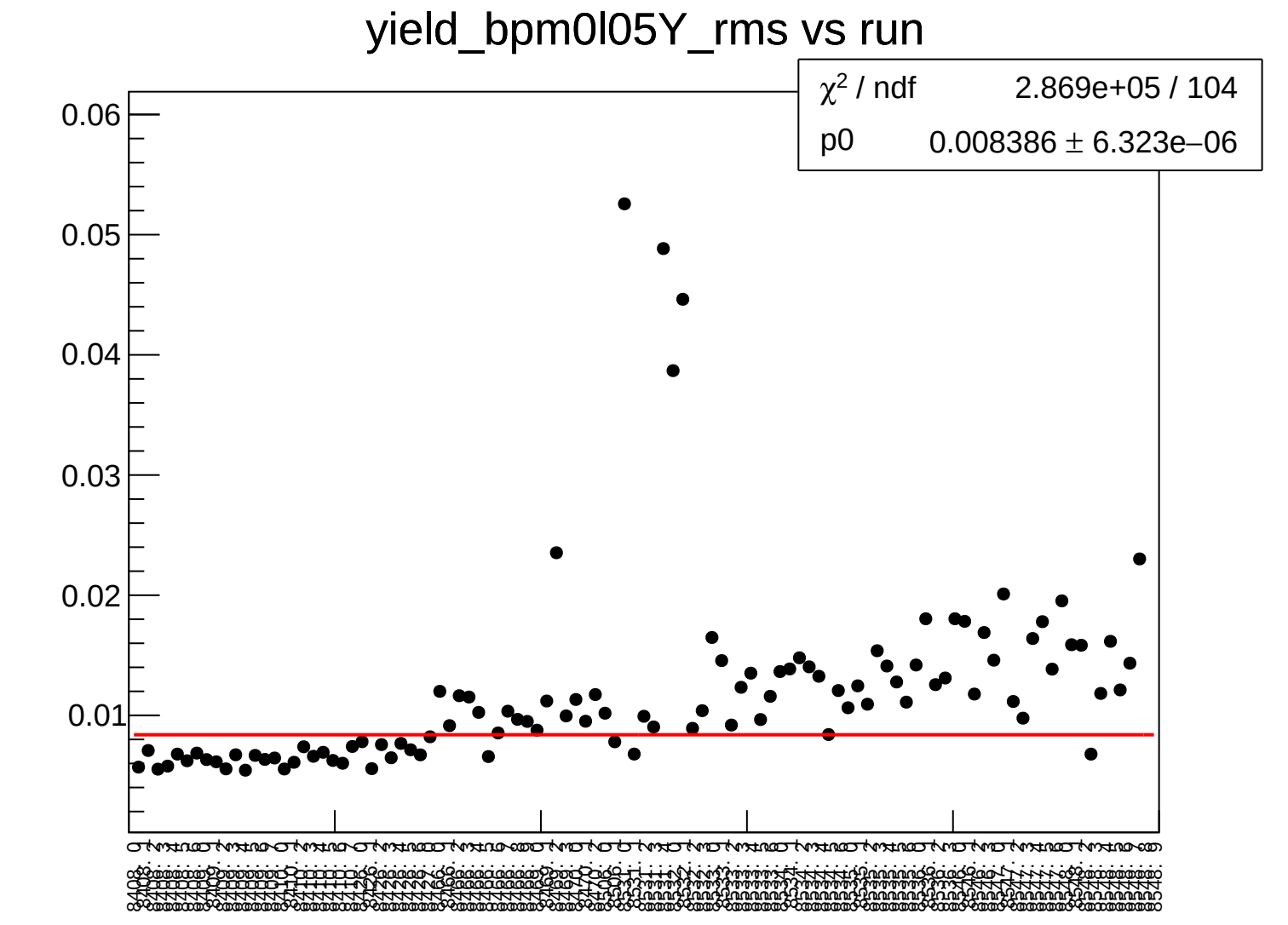

yield_bpm0l05X_mean vs run
χ² / ndf 2.205e+10 / 104
p0 0.8696 ± 3.922e−06
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
pull
Entries 105
Mean 1076
Std Dev 0
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000

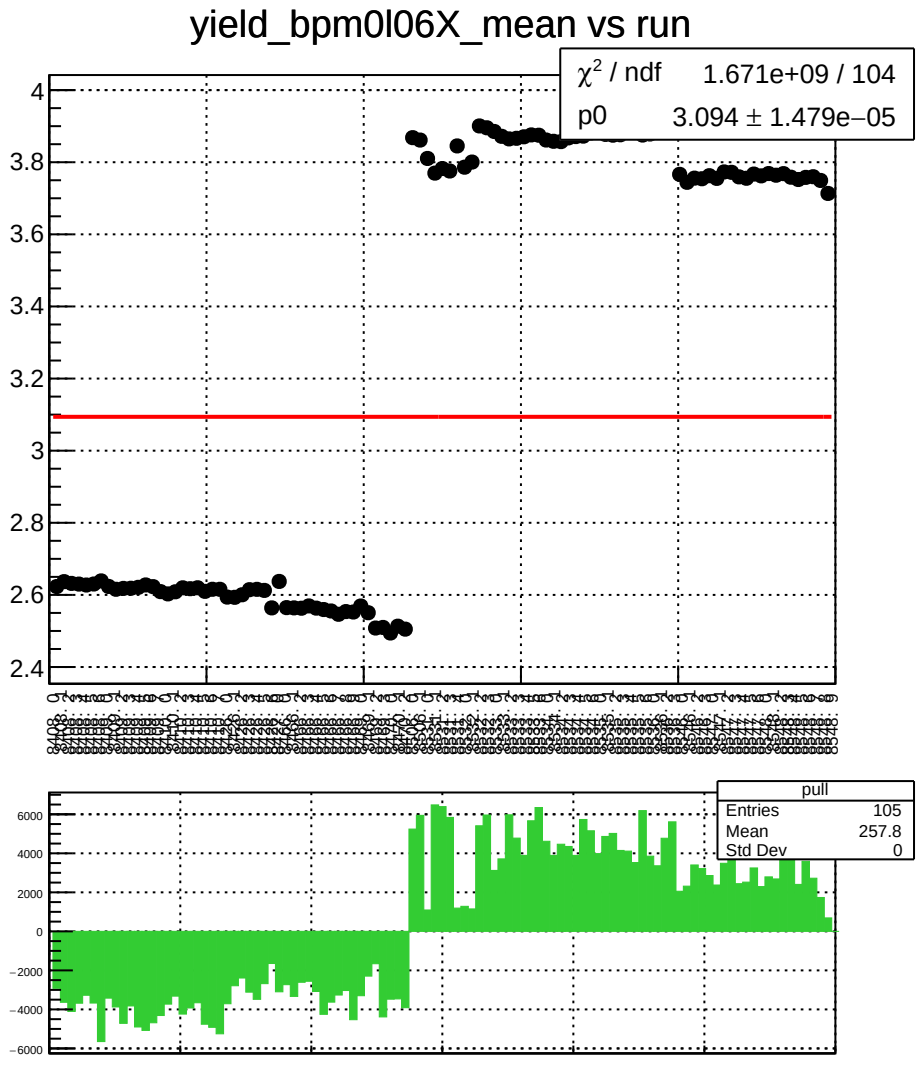

pull1D
Entries 105
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

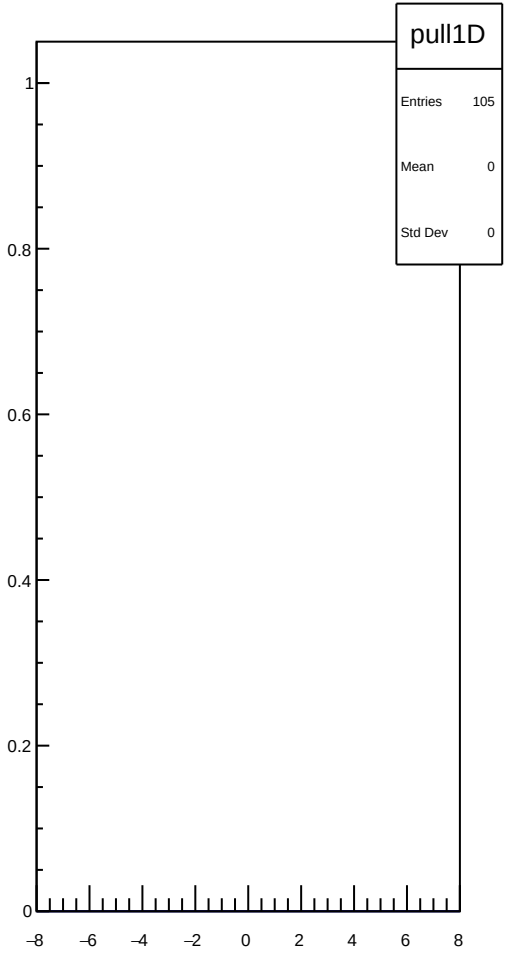

yield_bpm0l05X_rms vs run
χ² / ndf 1.027e+05 / 104
p0 0.003866 ± 2.773e−06
0.012
0.01
0.008
0.006
0.004

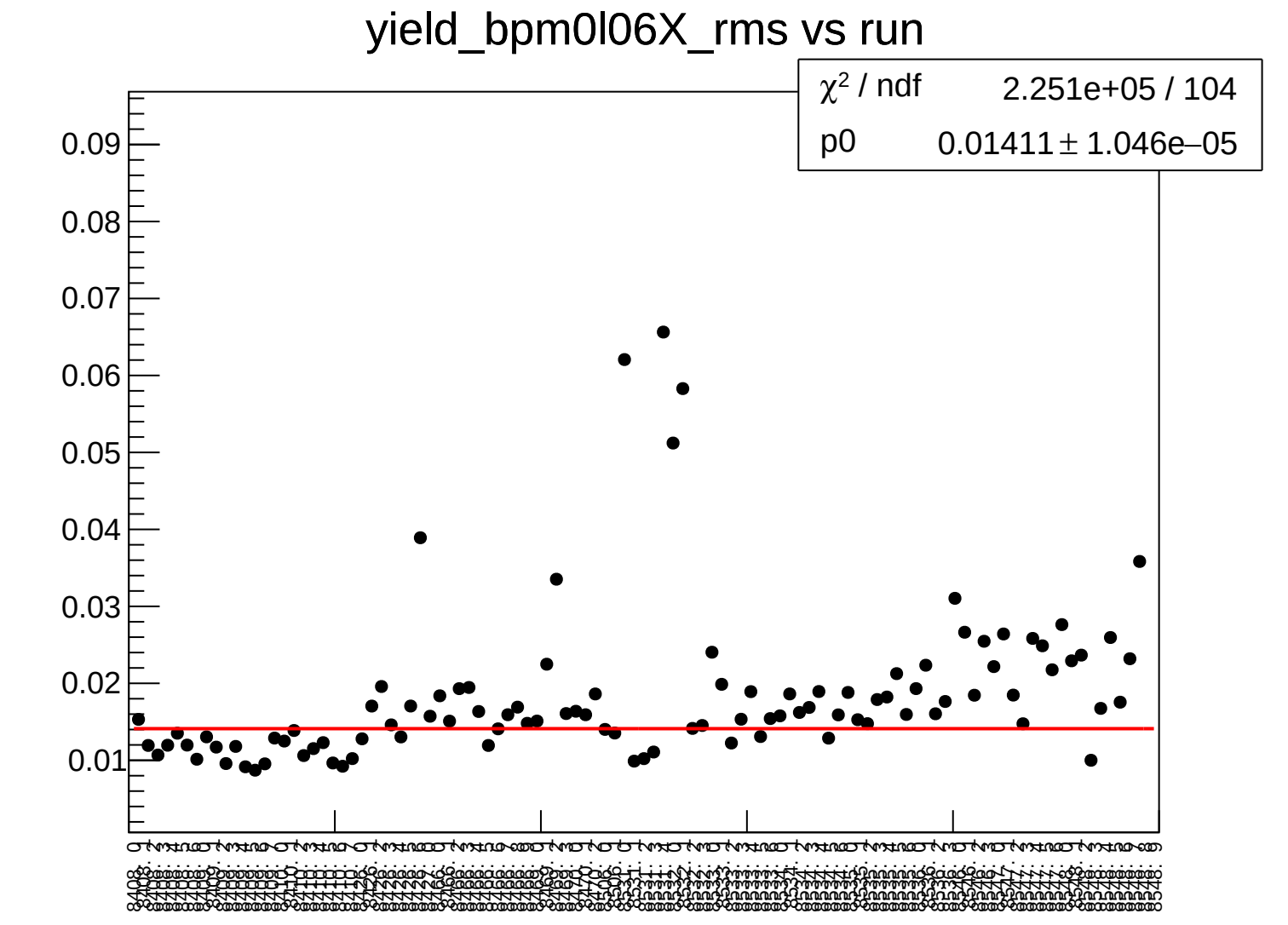

yield_bpm0l05Y_mean vs run
χ² / ndf 9.809e+08 / 104
p0 −0.05743 ± 8.942e−06
0.2
0
−0.2
−0.4
−0.6
pull
Entries 105
Mean 153.4
Std Dev 0
4000
2000
0
−2000
−4000
−6000
−8000

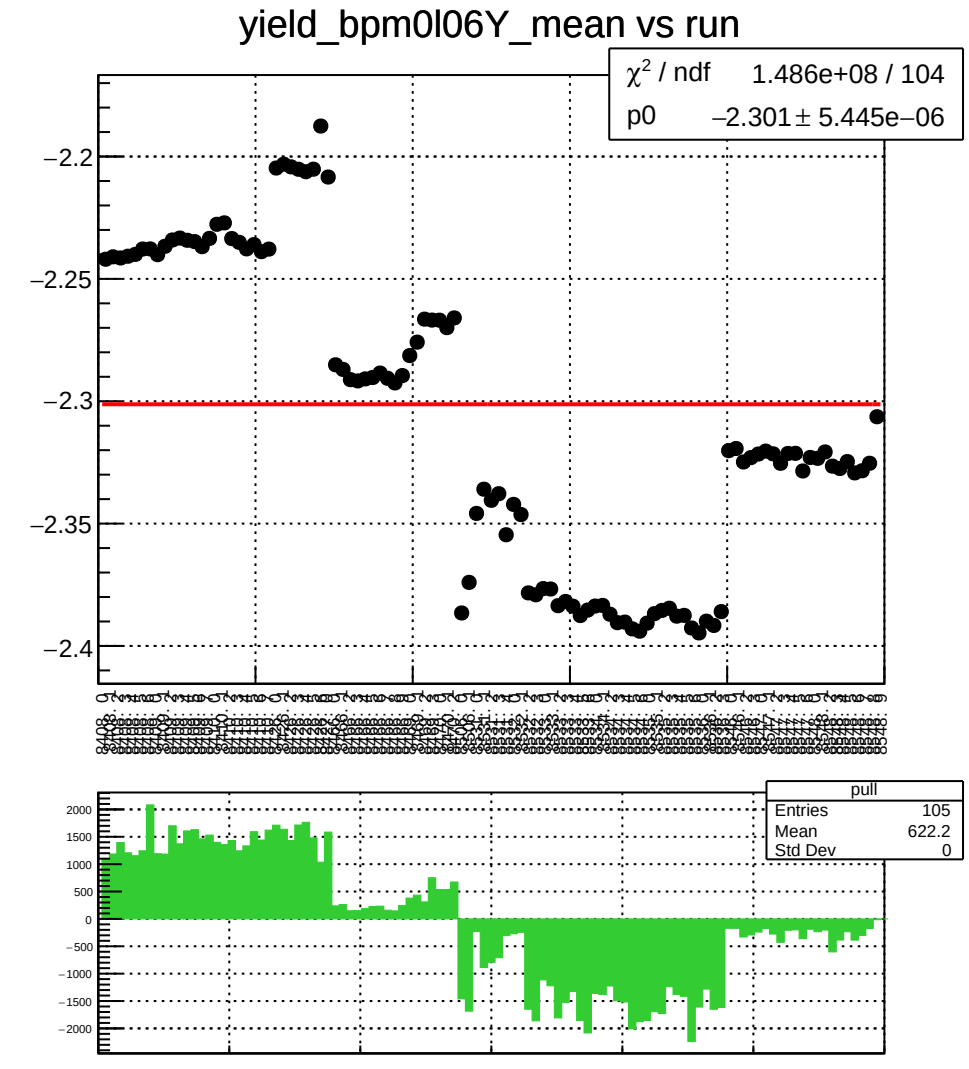

pull1D
Entries 105
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

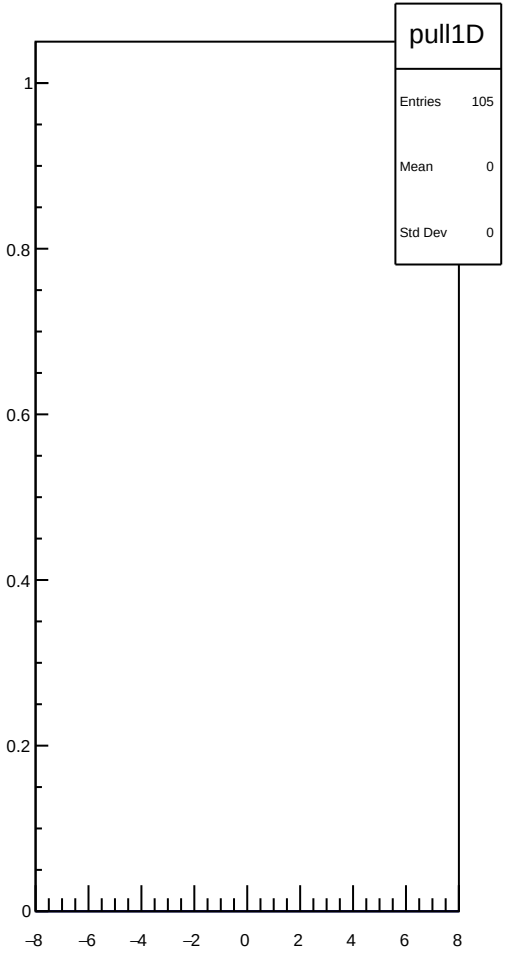

yield_bpm0l05Y_rms vs run
χ² / ndf 2.869e+05 / 104
p0 0.008386 ± 6.323e−06
0.06
0.05
0.04
0.03
0.02
0.01

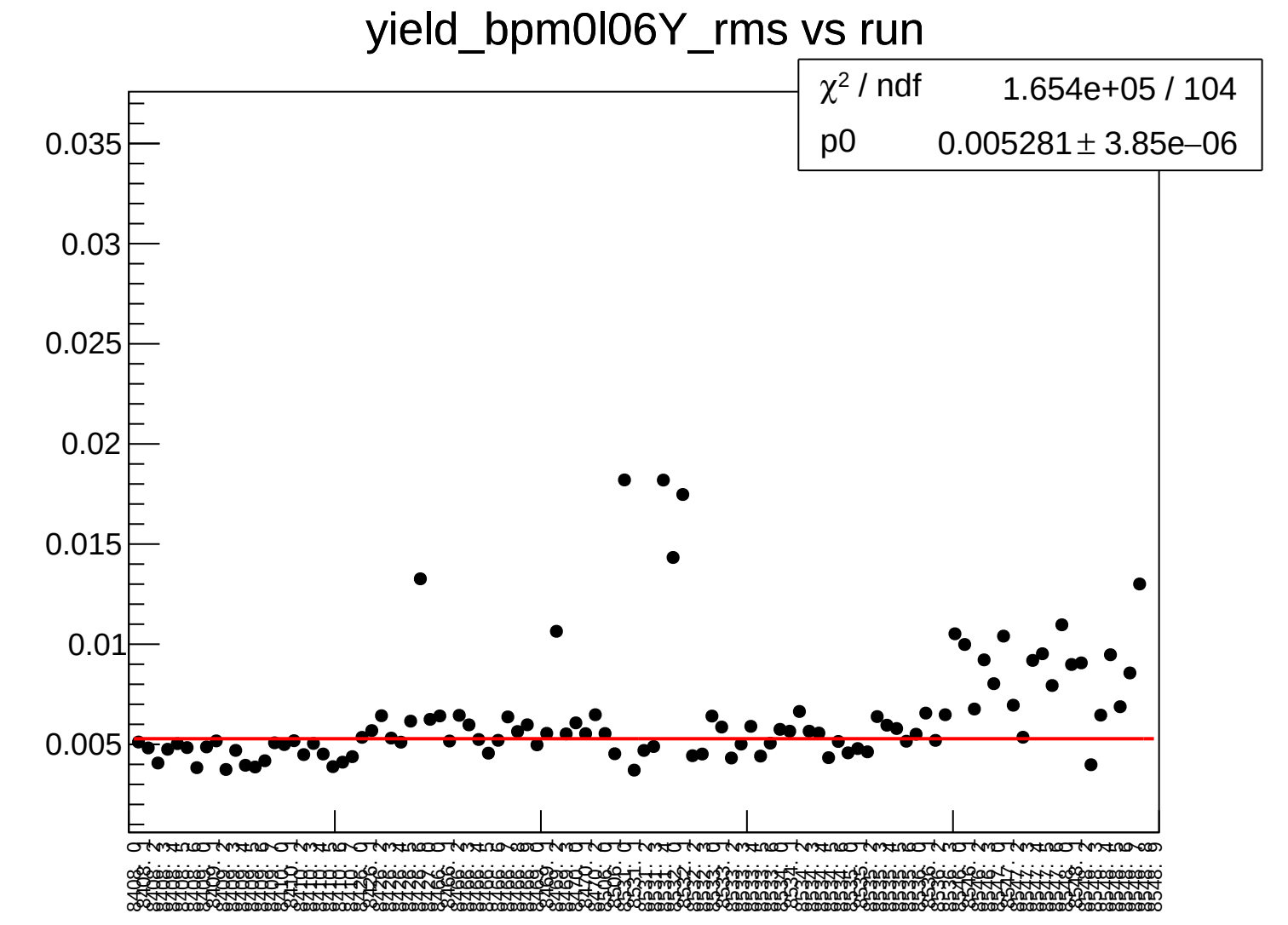

yield_bpm0l06X_mean vs run
χ² / ndf 1.671e+09 / 104
p0 3.094 ± 1.479e−05
4
3.8
3.6
3.4
3.2
3
2.8
2.6
2.4
pull
Entries 105
Mean 257.8
Std Dev 0
6000
4000
2000
0
−2000
−4000
−6000

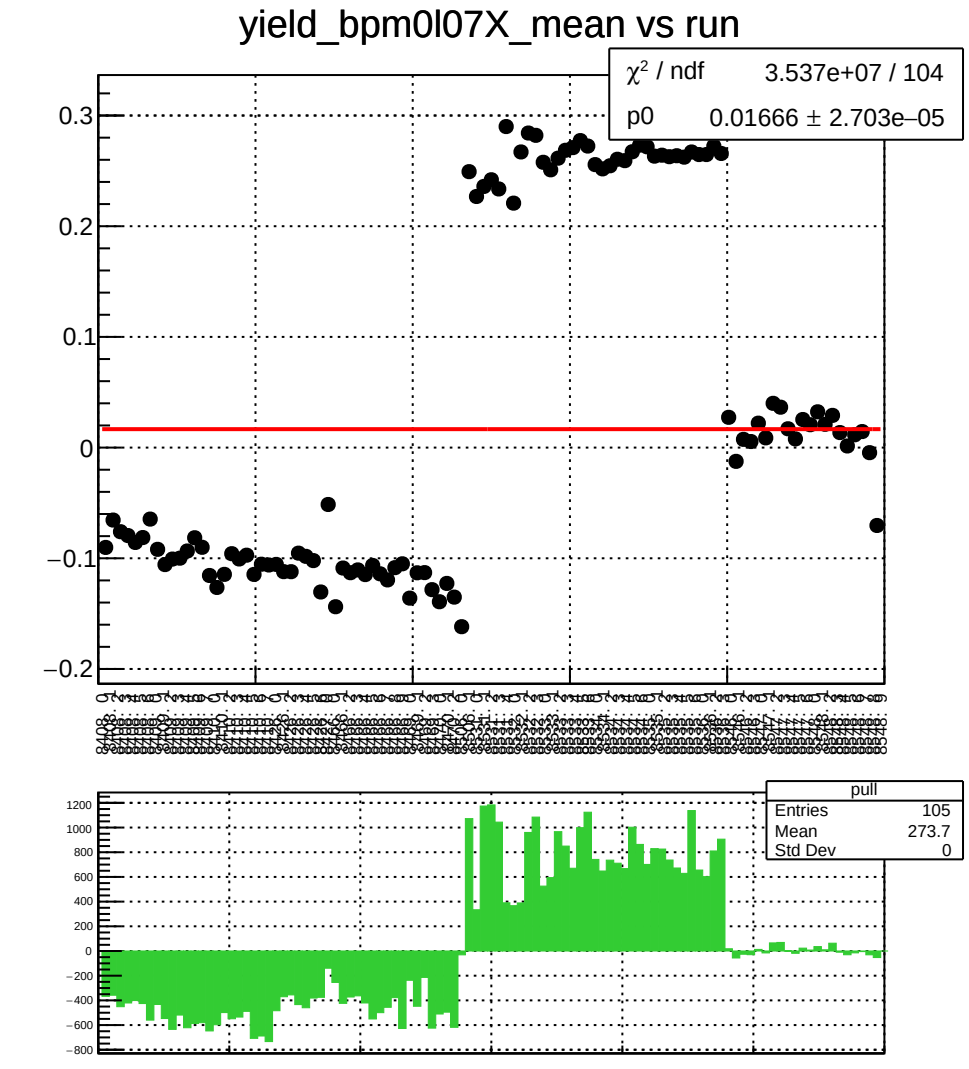

pull1D
Entries 105
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

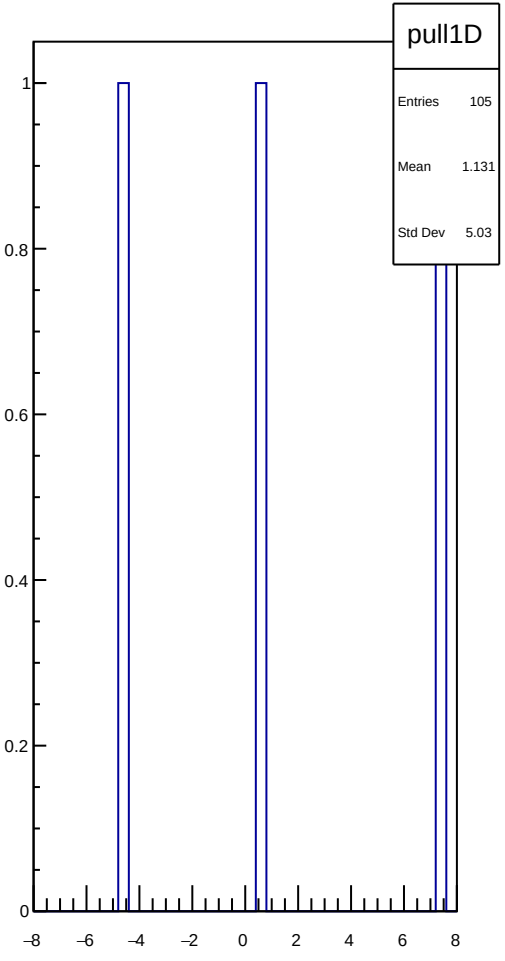

yield_bpm0l06X_rms vs run
χ² / ndf 2.251e+05 / 104
p0 0.01411 ± 1.046e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

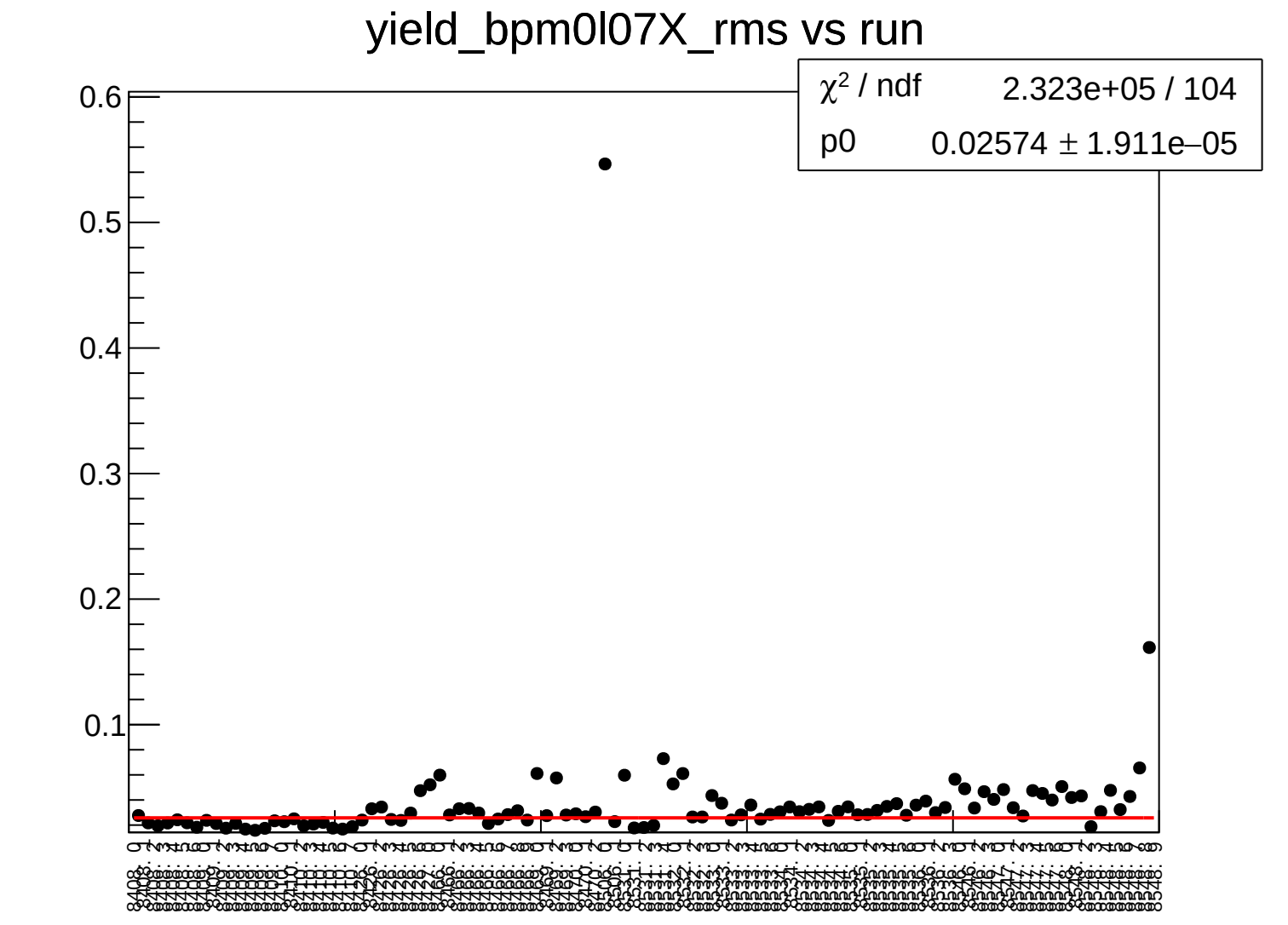

yield_bpm0l06Y_mean vs run
χ² / ndf 1.486e+08 / 104
p0 −2.301 ± 5.445e−06
−2.2
−2.25
−2.3
−2.35
−2.4
pull
Entries 105
Mean 622.2
Std Dev 0
2000
1500
1000
500
0
−500
−1000
−1500
−2000

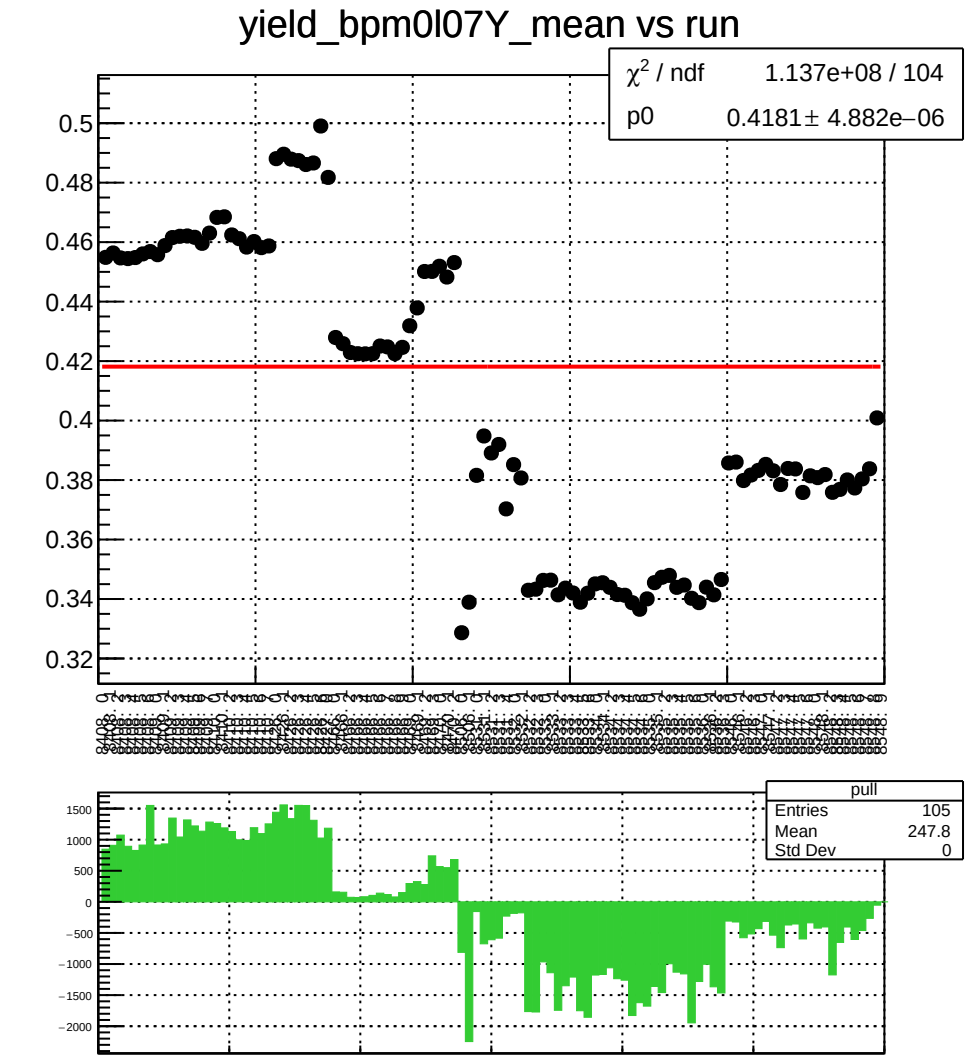

pull1D
Entries 105
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

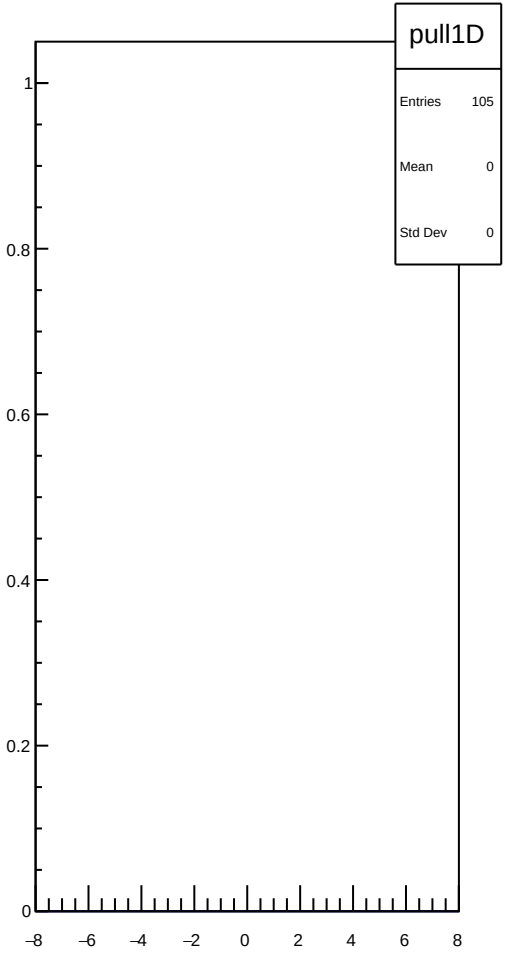

yield_bpm0l06Y_rms vs run
χ² / ndf 1.654e+05 / 104
p0 0.005281 ± 3.85e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

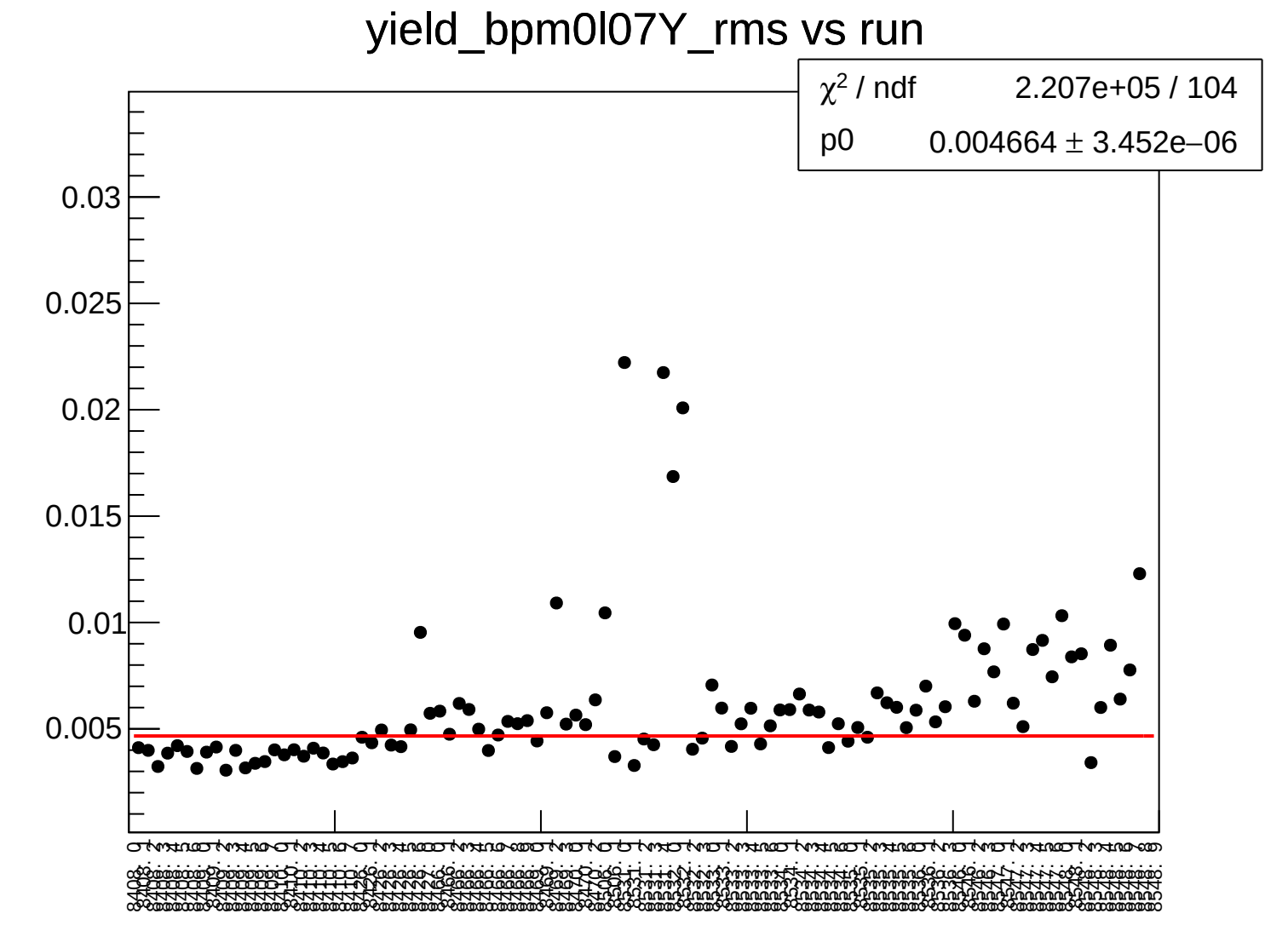

yield_bpm0l07X_mean vs run
χ² / ndf 3.537e+07 / 104
p0 0.01666 ± 2.703e−05
0.3
0.2
0.1
0
−0.1
−0.2
pull
Entries 105
Mean 273.7
Std Dev 0
1200
1000
800
600
400
200
0
−200
−400
−600
−800

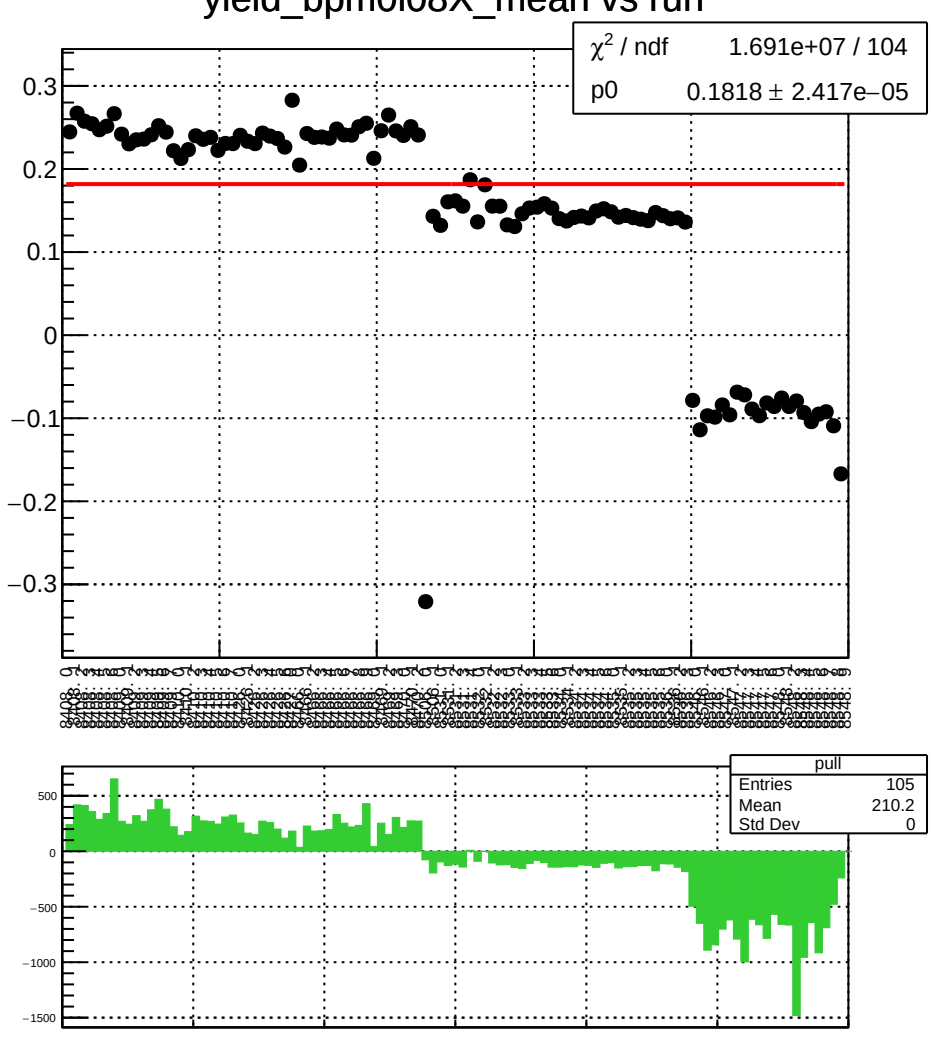

pull1D
Entries 105
Mean 1.131
Std Dev 5.03
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

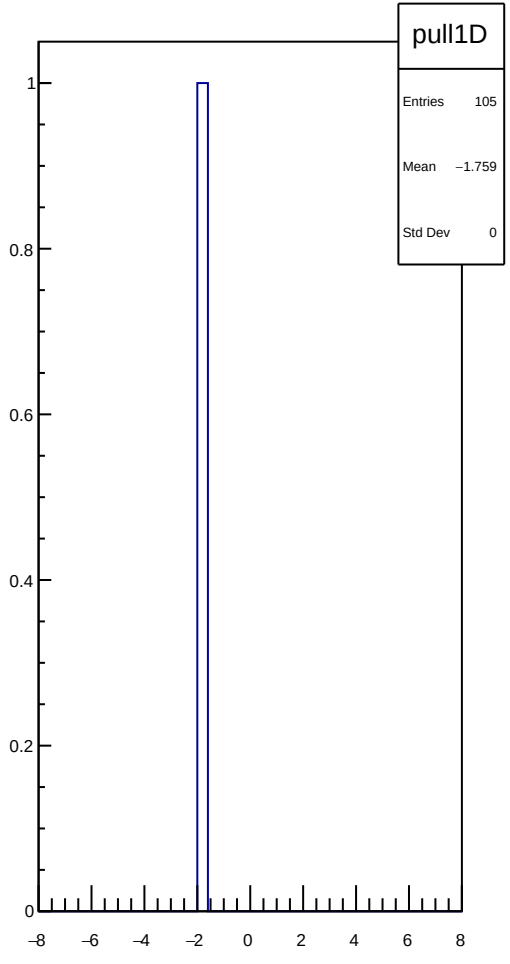

yield_bpm0l07X_rms vs run
χ² / ndf 2.323e+05 / 104
p0 0.02574 ± 1.911e−05
0.6
0.5
0.4
0.3
0.2
0.1

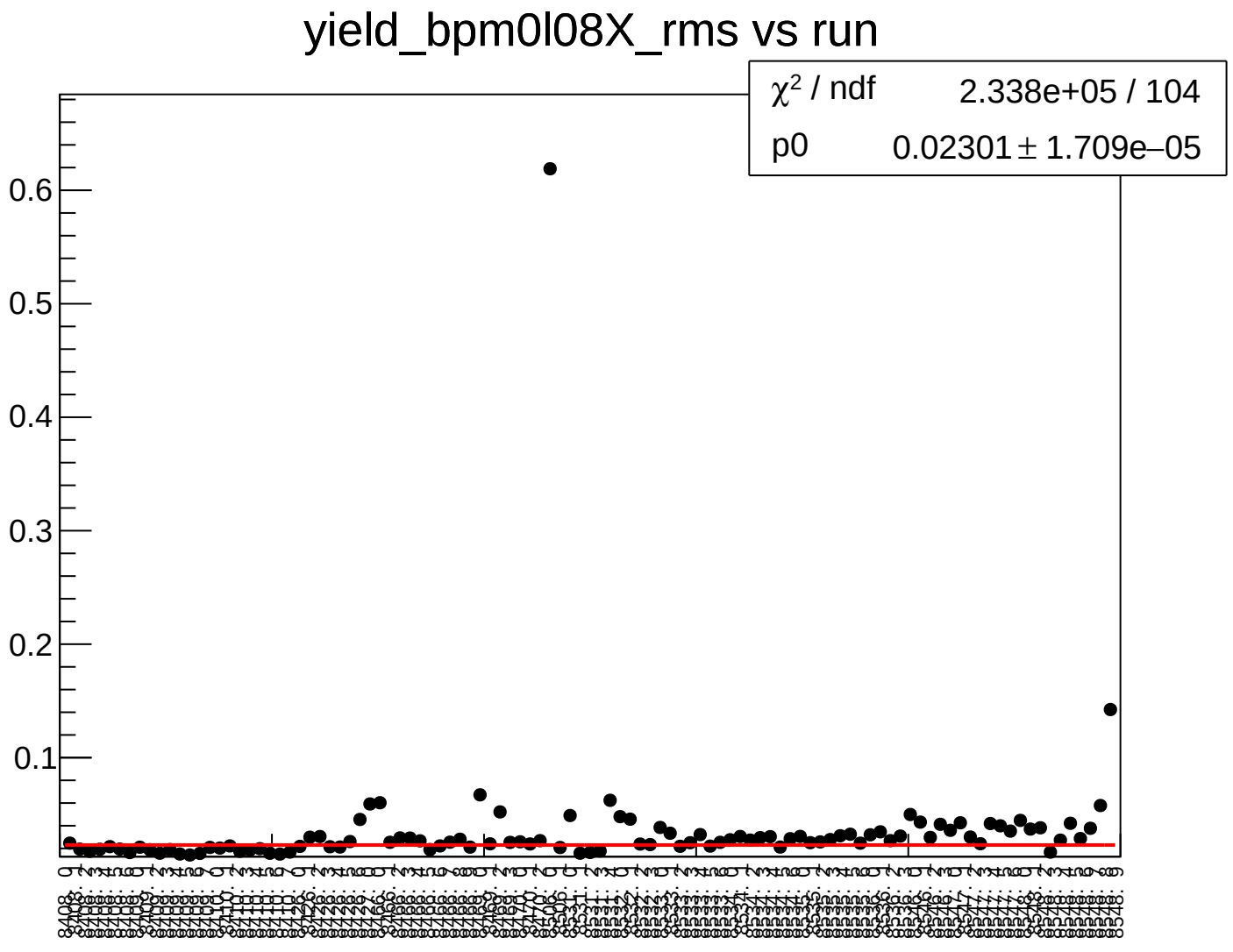

yield_bpm0l07Y_mean vs run
χ² / ndf 1.137e+08 / 104
p0 0.4181 ± 4.882e−06
0.5
0.48
0.46
0.44
0.42
0.4
0.38
0.36
0.34
0.32
pull
Entries 105
Mean 247.8
Std Dev 0
1500
1000
500
0
−500
−1000
−1500
−2000

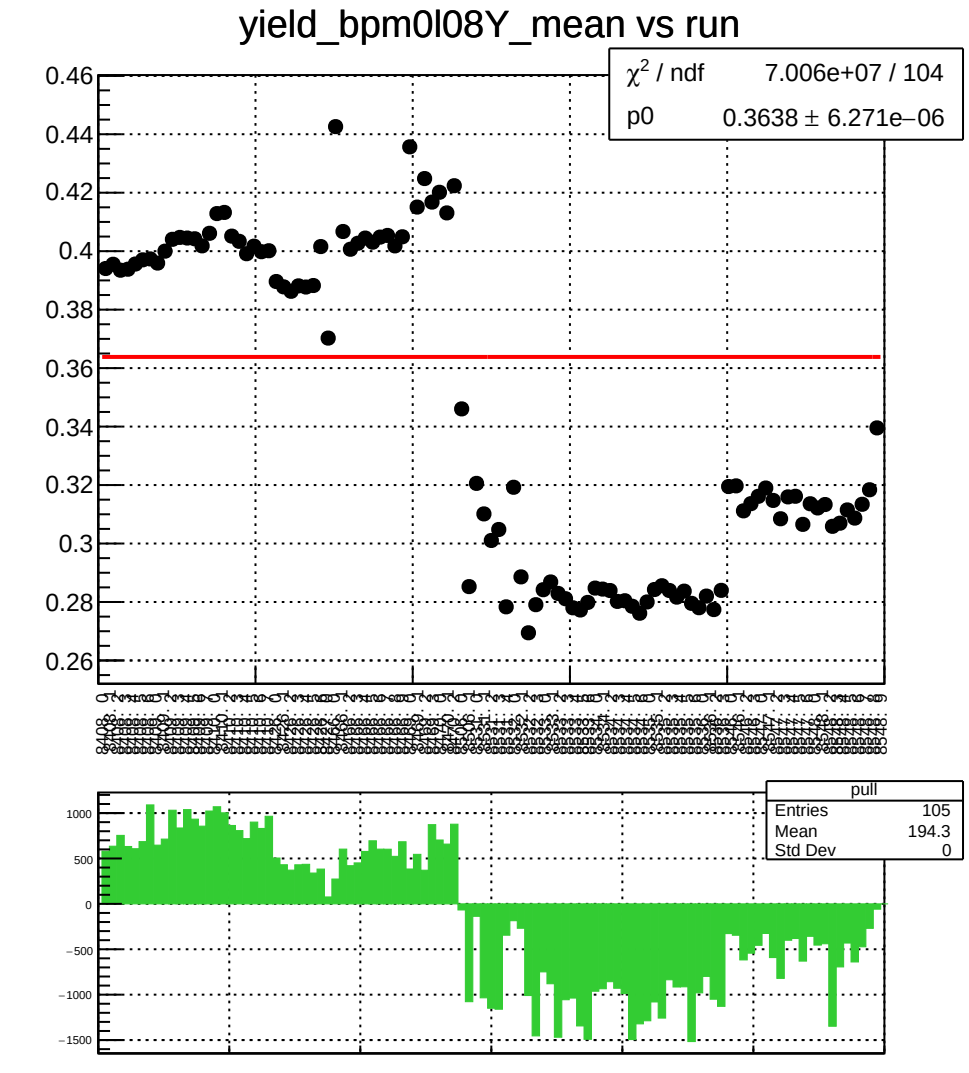

pull1D
Entries 105
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

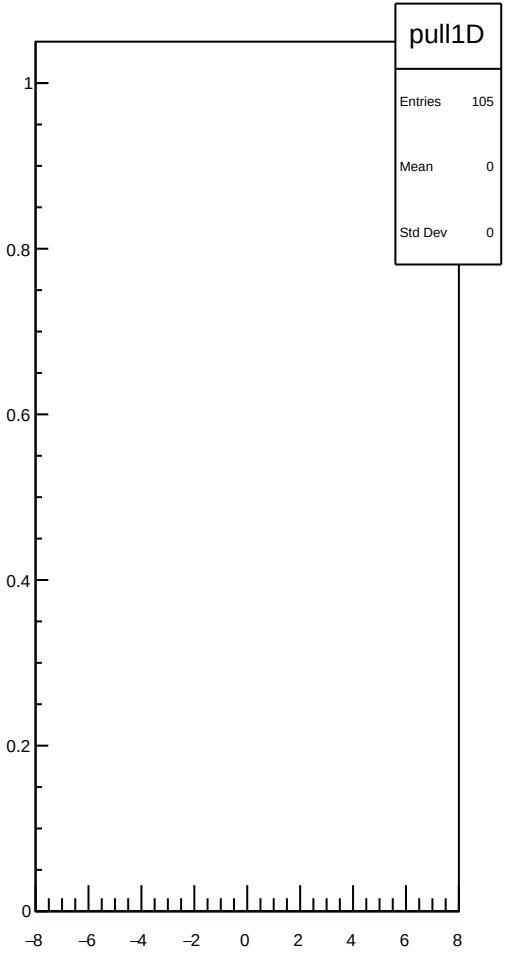

yield_bpm0l07Y_rms vs run
χ² / ndf 2.207e+05 / 104
p0 0.004664 ± 3.452e−06
0.03
0.025
0.02
0.015
0.01
0.005

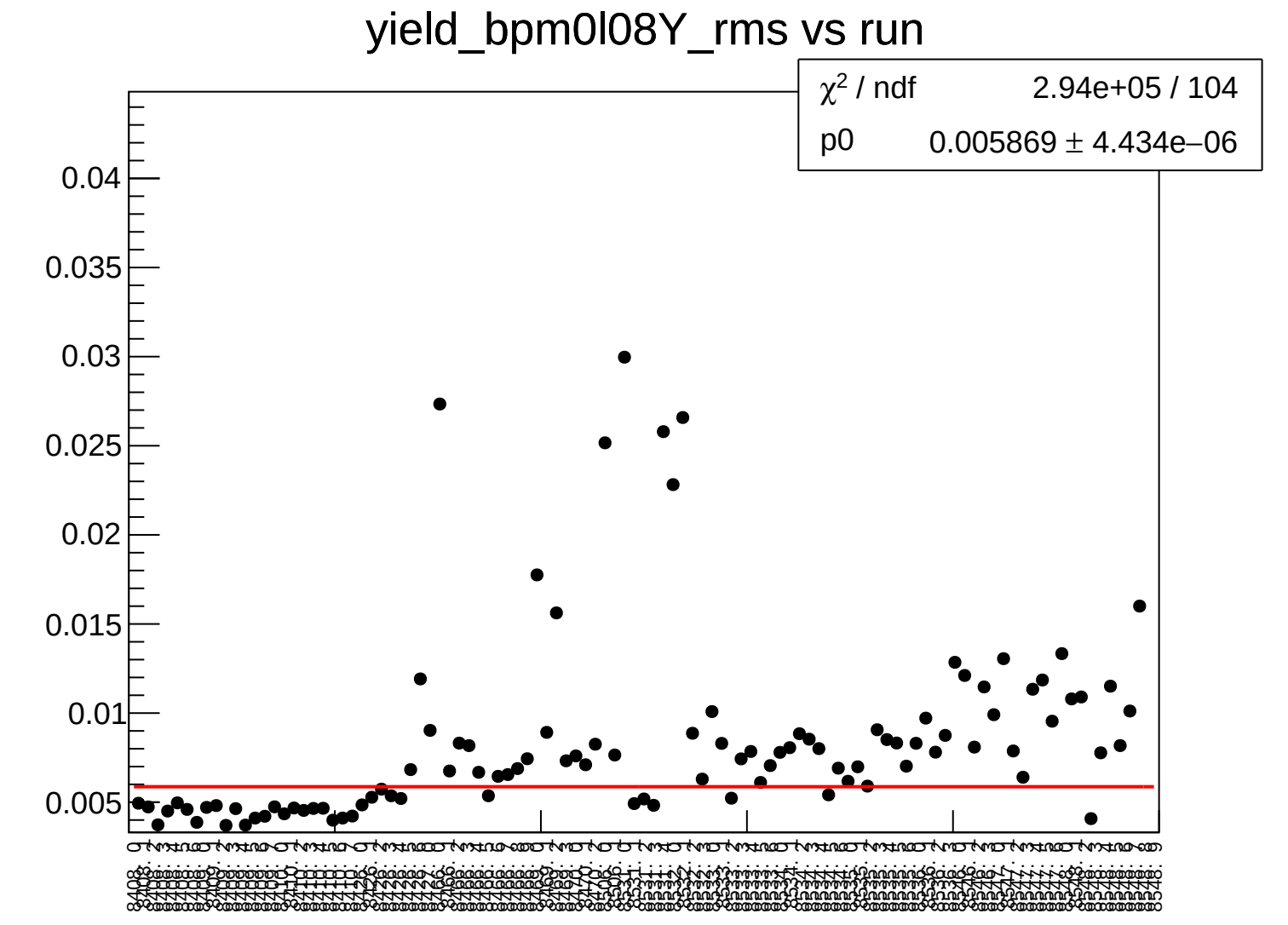

yield_bpm0l08X_mean vs run
χ² / ndf 1.691e+07 / 104
p0 0.1818 ± 2.417e−05
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 105
Mean 210.2
Std Dev 0
500
0
−500
−1000
−1500

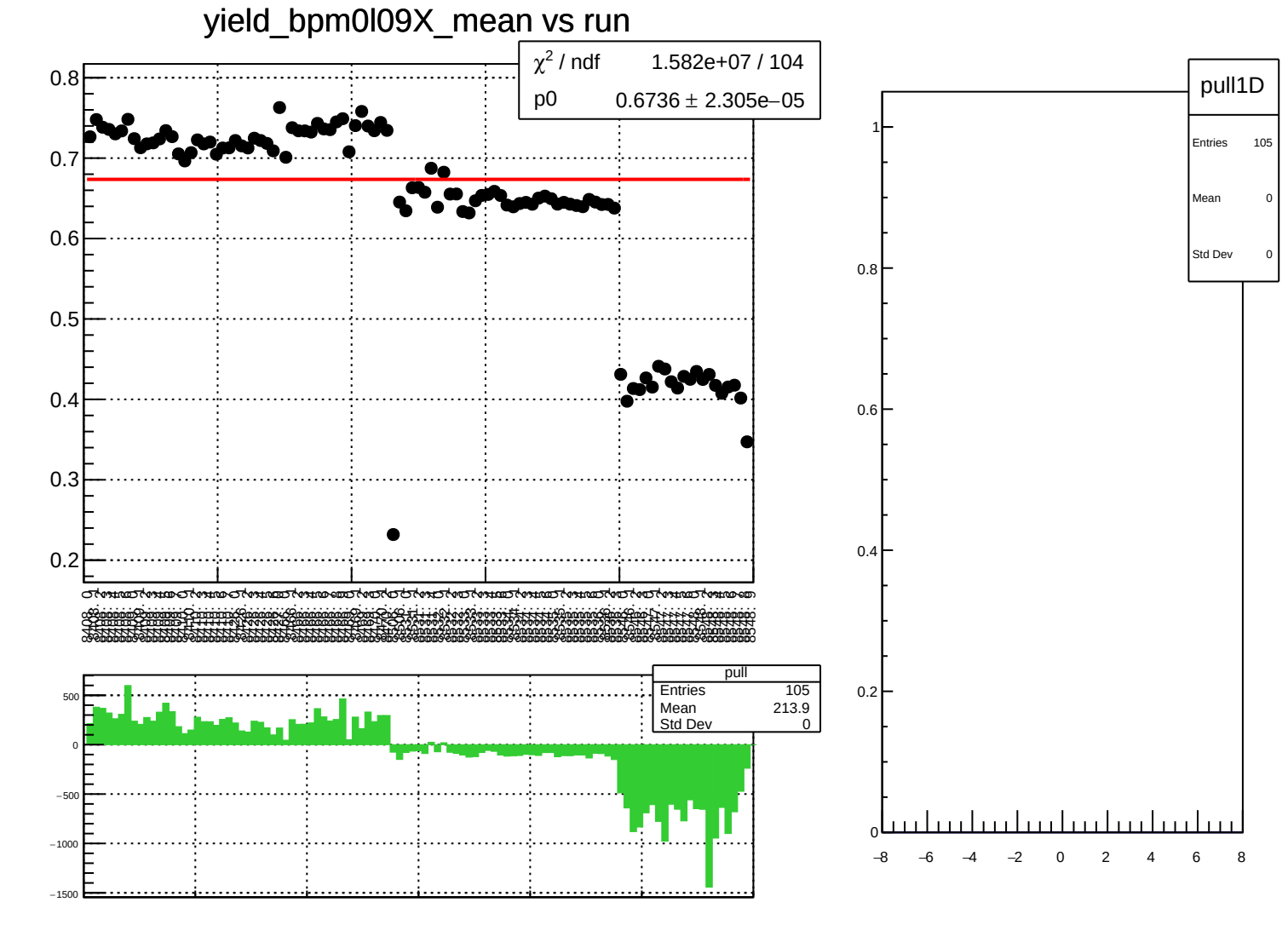

pull1D
Entries 105
Mean −1.759
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

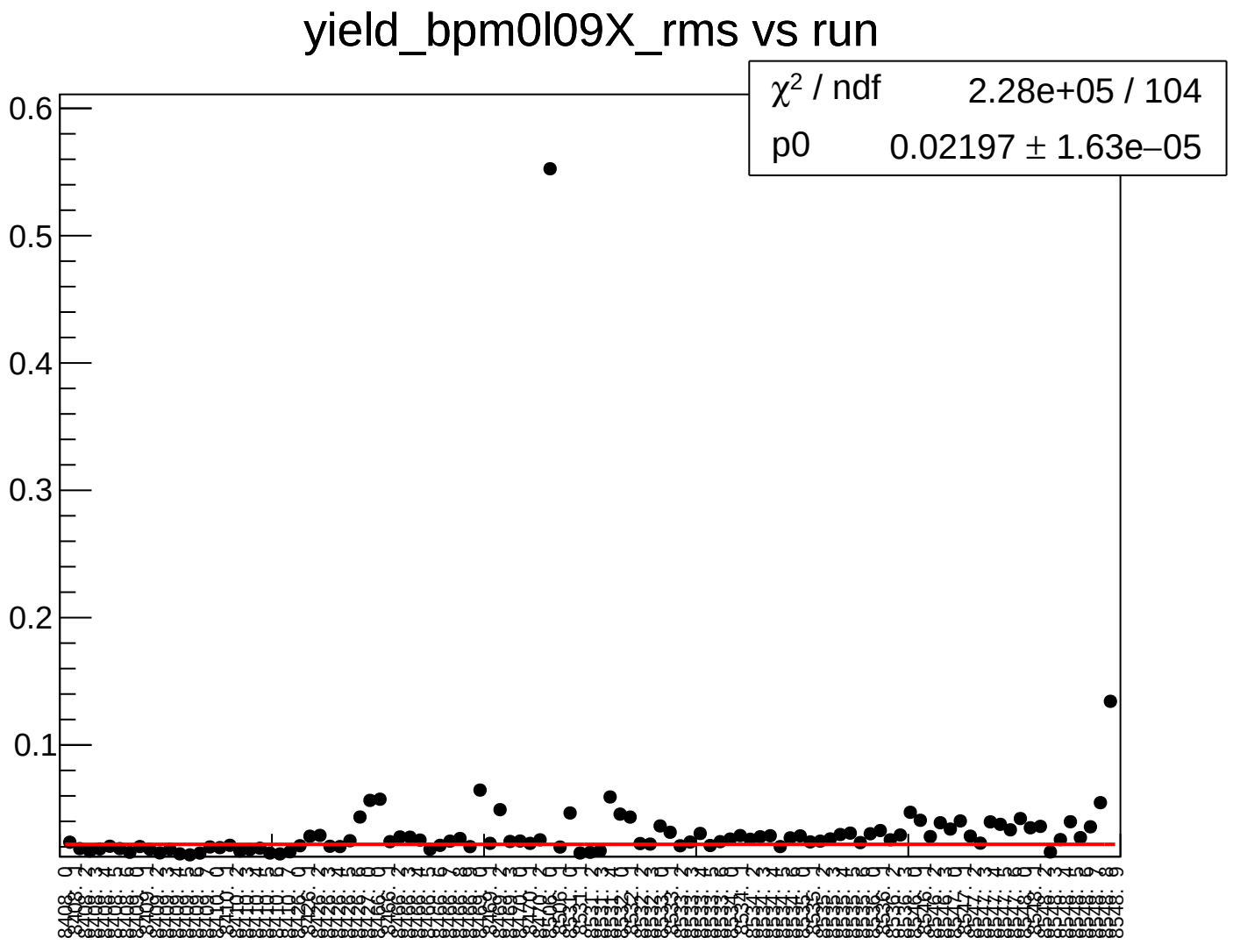

yield_bpm0l08X_rms vs run
χ² / ndf 2.338e+05 / 104
p0 0.02301 ± 1.709e–05
0.6
0.5
0.4
0.3
0.2
0.1

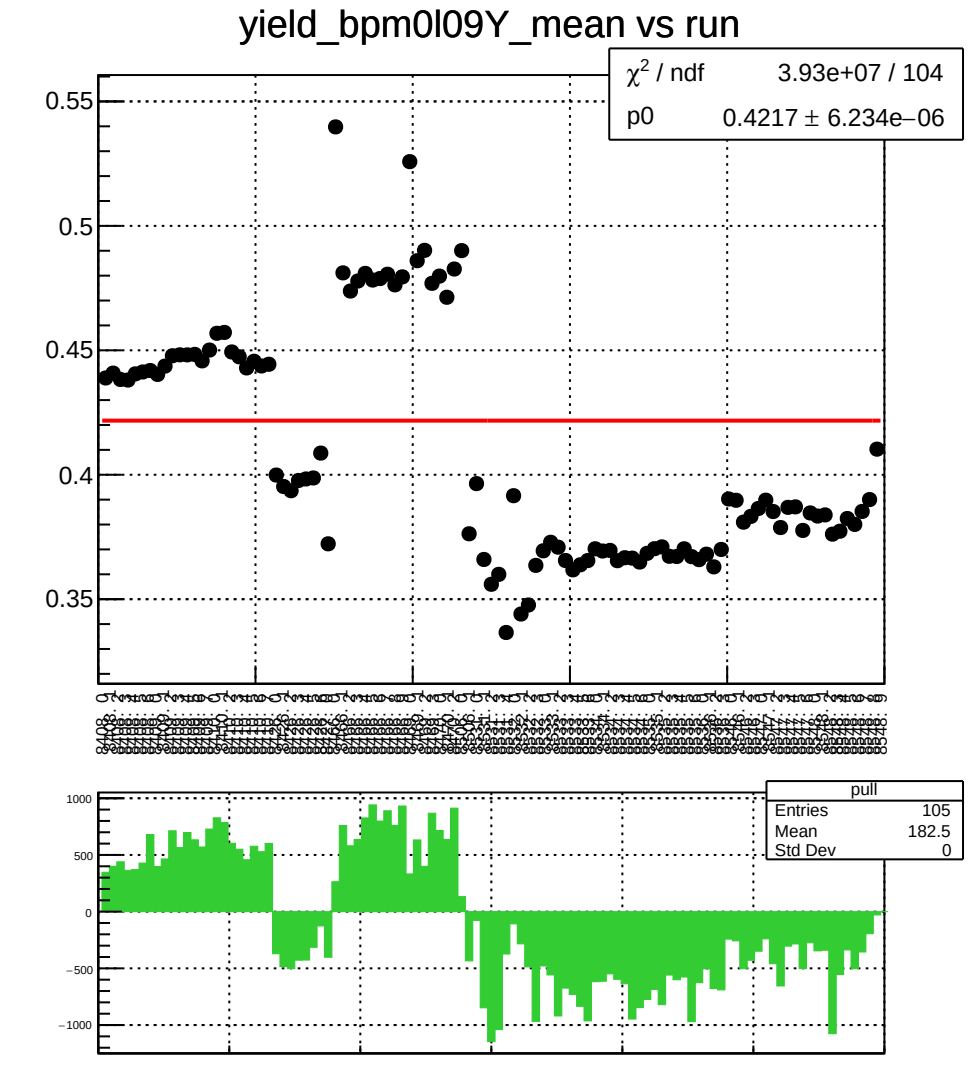

yield_bpm0l08Y_mean vs run
χ² / ndf 7.006e+07 / 104
p0 0.3638 ± 6.271e−06
0.46
0.44
0.42
0.4
0.38
0.36
0.34
0.32
0.3
0.28
0.26
pull
Entries 105
Mean 194.3
Std Dev 0
1000
500
0
−500
−1000
−1500

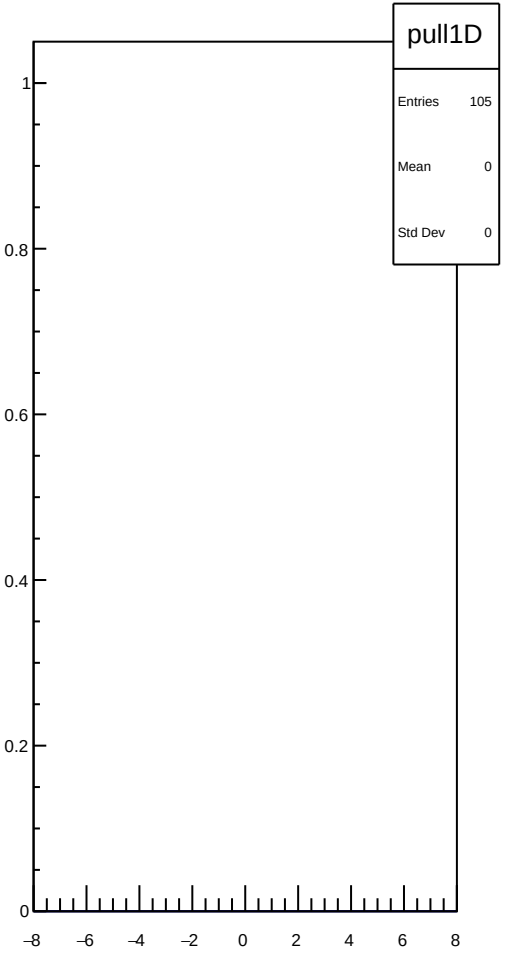

pull1D
Entries 105
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

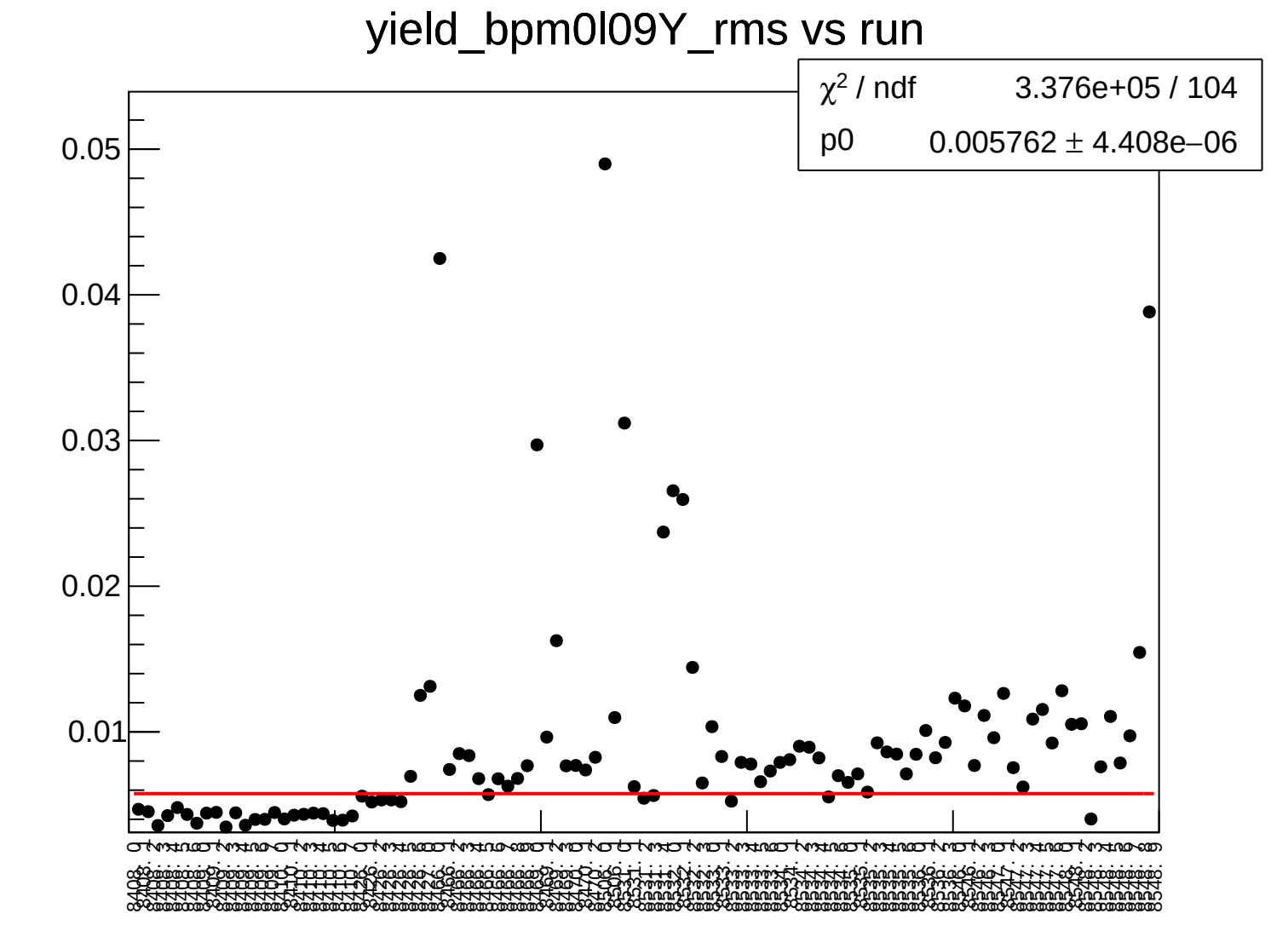

yield_bpm0l08Y_rms vs run
χ² / ndf 2.94e+05 / 104
p0 0.005869 ± 4.434e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

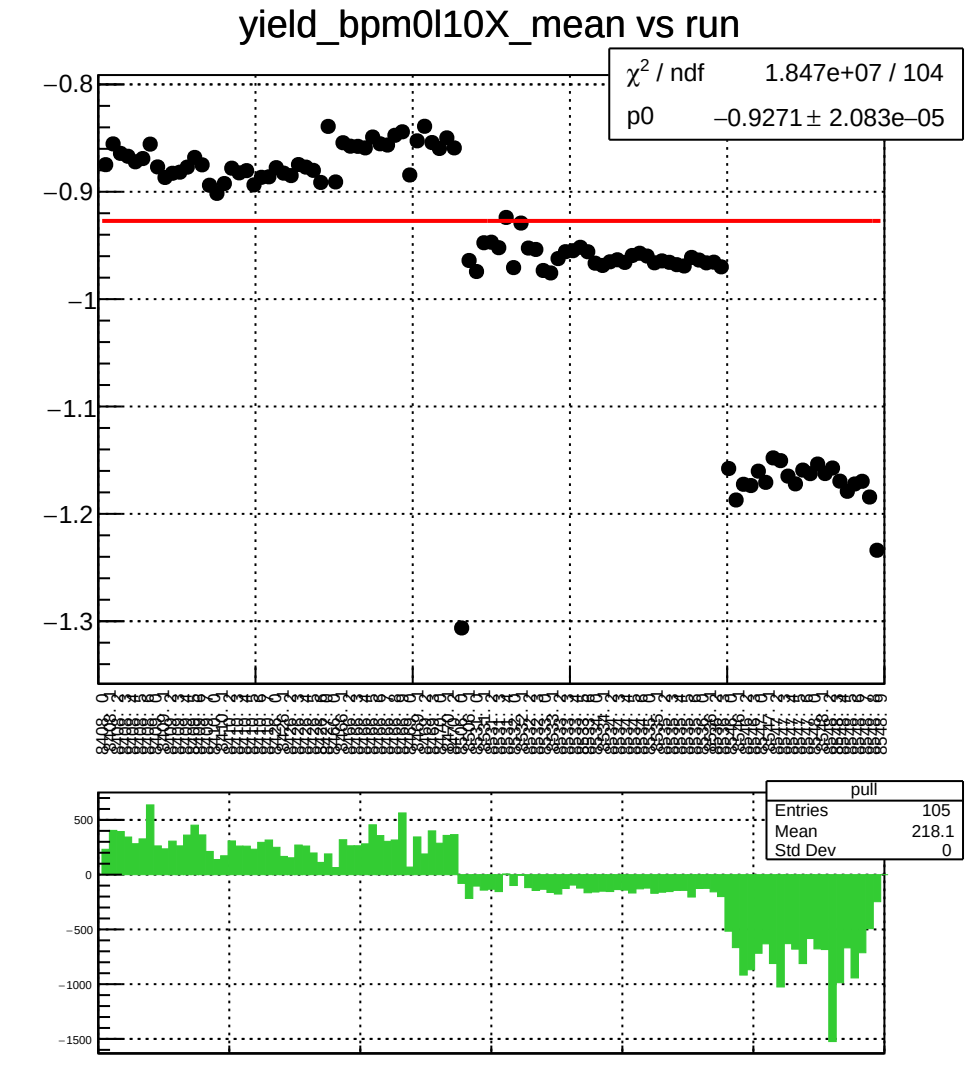

yield_bpm0l09X_mean vs run
χ² / ndf 1.582e+07 / 104
p0 0.6736 ± 2.305e−05
0.8
0.7
0.6
0.5
0.4
0.3
0.2
pull
Entries 105
Mean 213.9
Std Dev 0
500
0
−500
−1000
−1500
pull1D
Entries 105
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

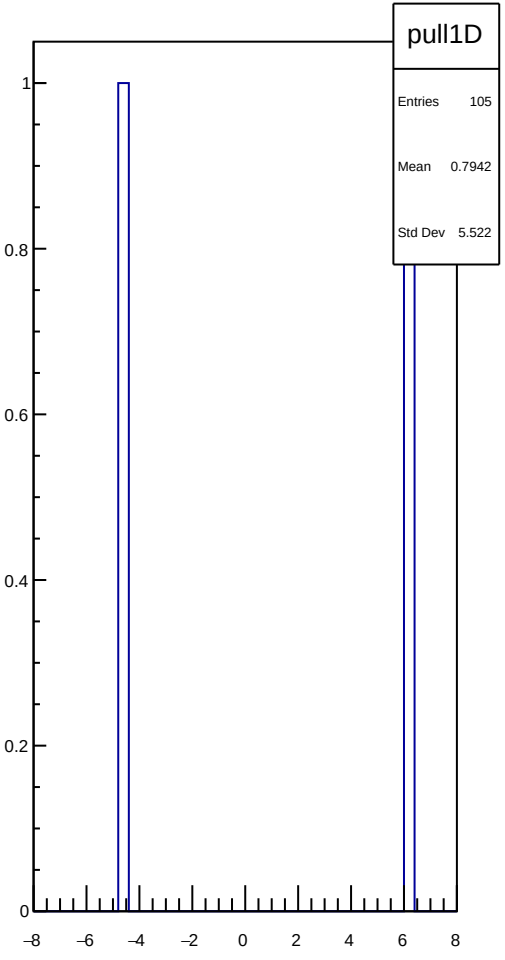

yield_bpm0l09X_rms vs run
χ² / ndf 2.28e+05 / 104
p0 0.02197 ± 1.63e−05
0.6
0.5
0.4
0.3
0.2
0.1

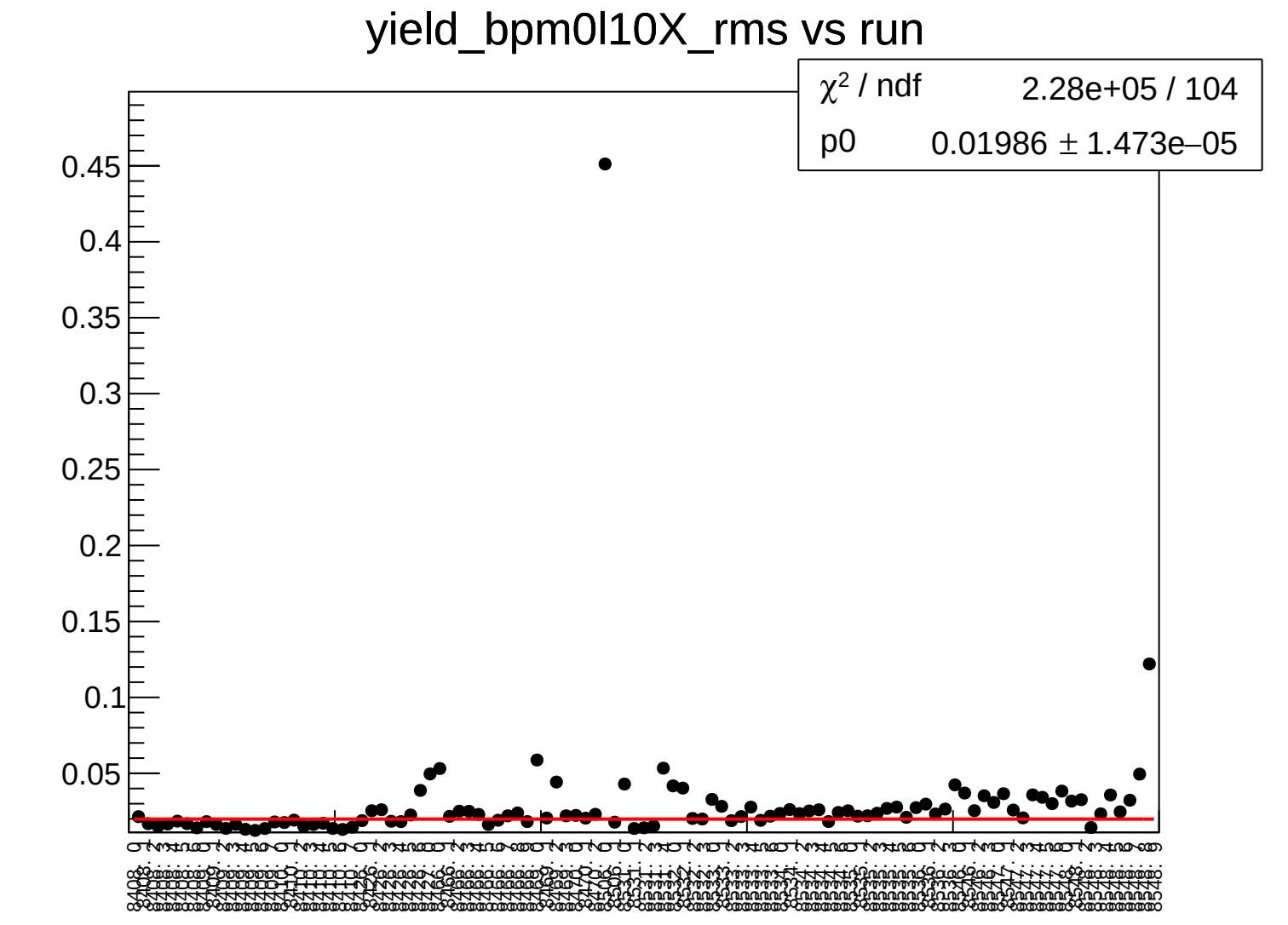

yield_bpm0l09Y_mean vs run
χ² / ndf 3.93e+07 / 104
p0 0.4217 ± 6.234e−06
0.55
0.5
0.45
0.4
0.35
pull
Entries 105
Mean 182.5
Std Dev 0
1000
500
0
−500
−1000

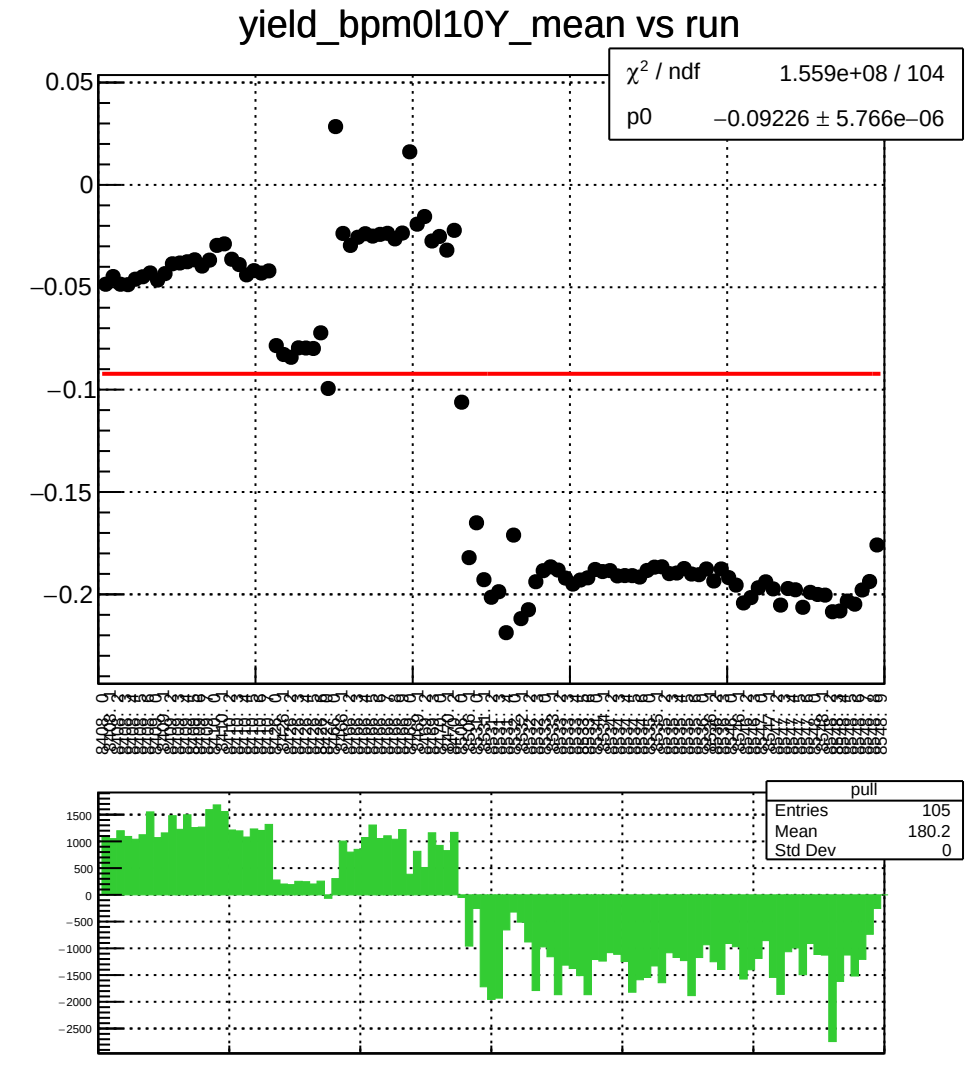

pull1D
Entries 105
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

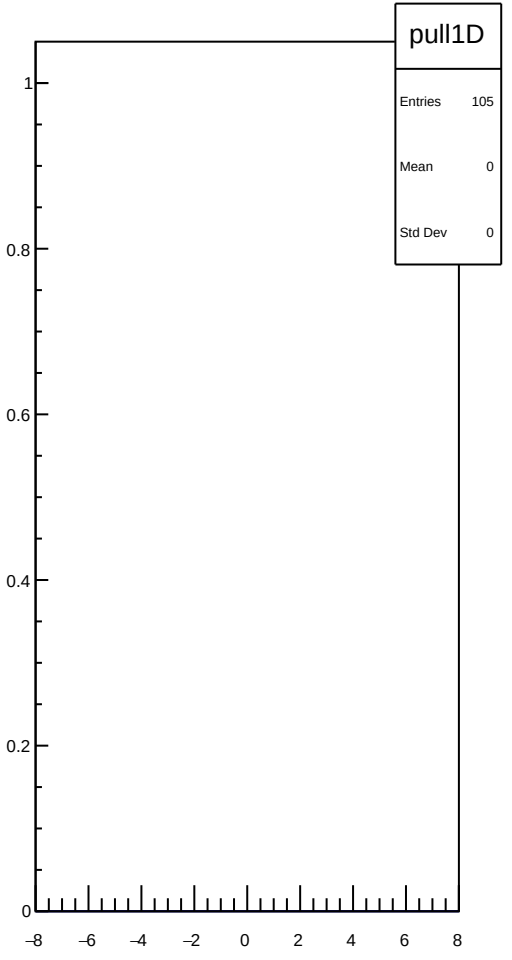

yield_bpm0l09Y_rms vs run
χ² / ndf 3.376e+05 / 104
p0 0.005762 ± 4.408e−06
0.05
0.04
0.03
0.02
0.01

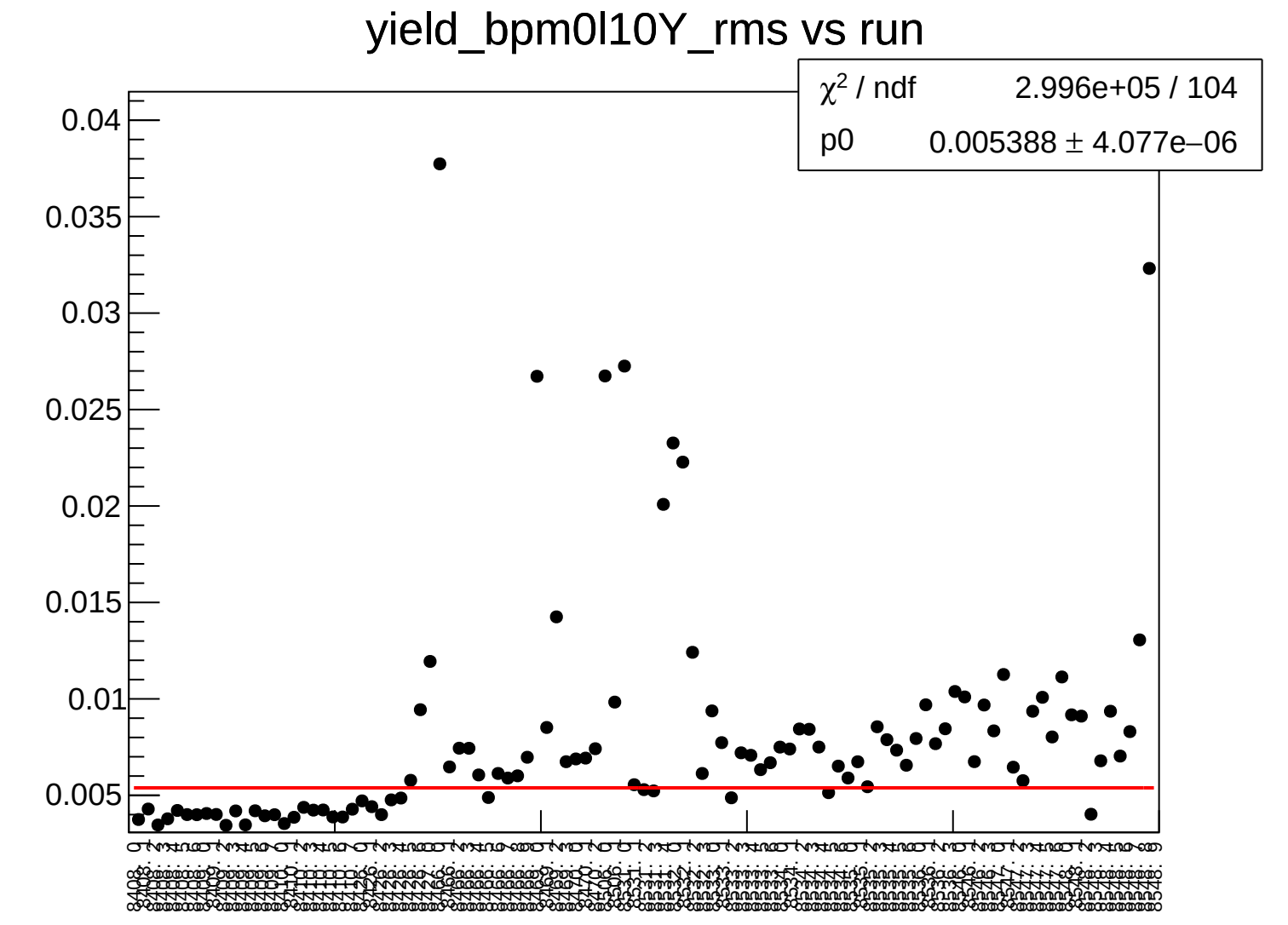

yield_bpm0l10X_mean vs run
χ² / ndf 1.847e+07 / 104
p0 −0.9271 ± 2.083e−05
−0.8
−0.9
−1
−1.1
−1.2
−1.3
pull
Entries 105
Mean 218.1
Std Dev 0
500
0
−500
−1000
−1500

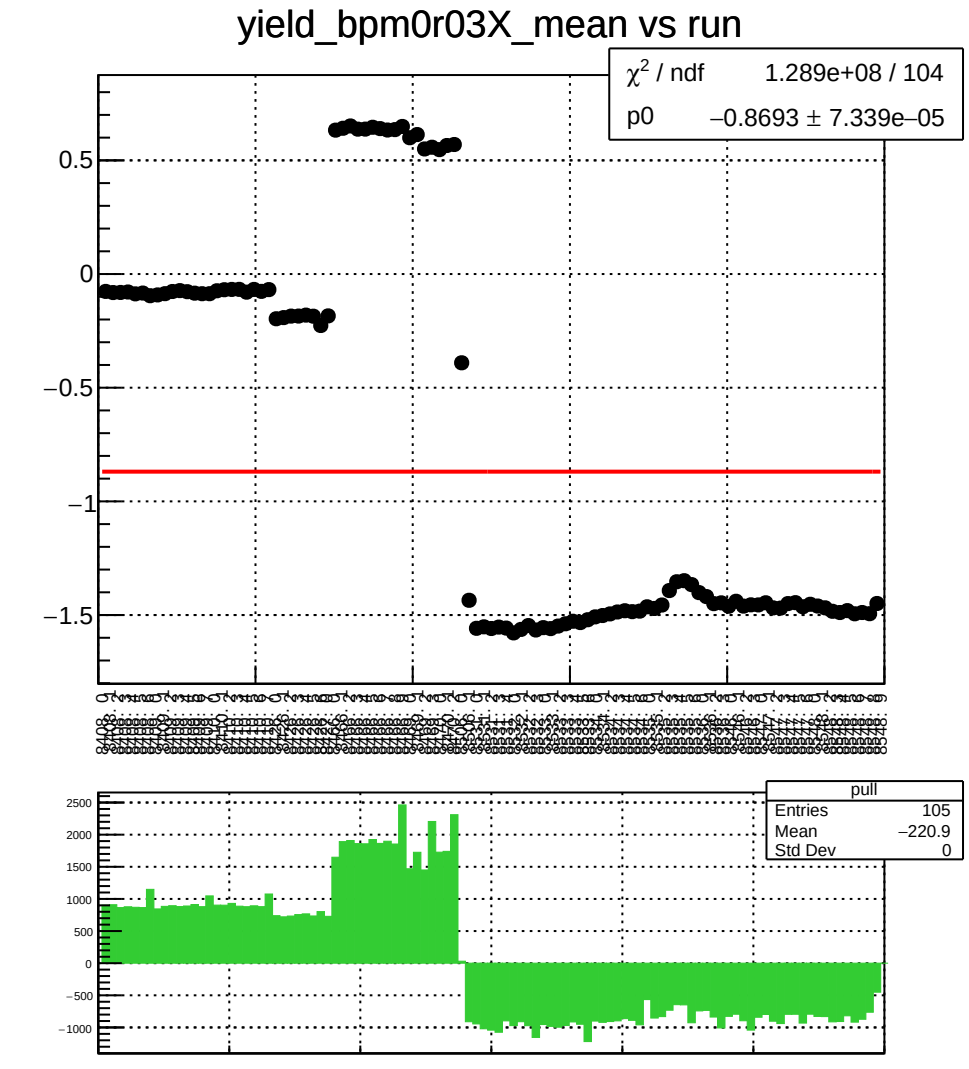

pull1D
Entries 105
Mean 0.7942
Std Dev 5.522
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

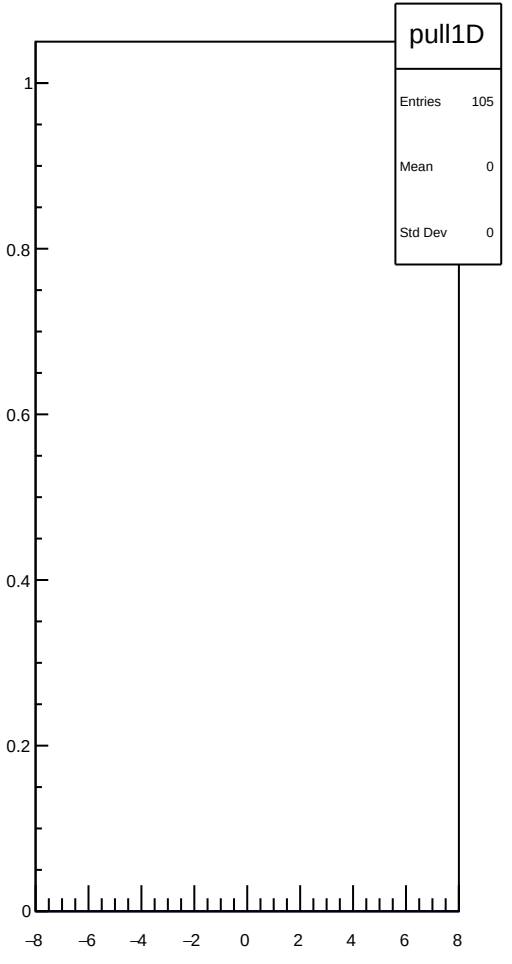

yield_bpm0l10X_rms vs run
χ² / ndf 2.28e+05 / 104
p0 0.01986 ± 1.473e−05
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

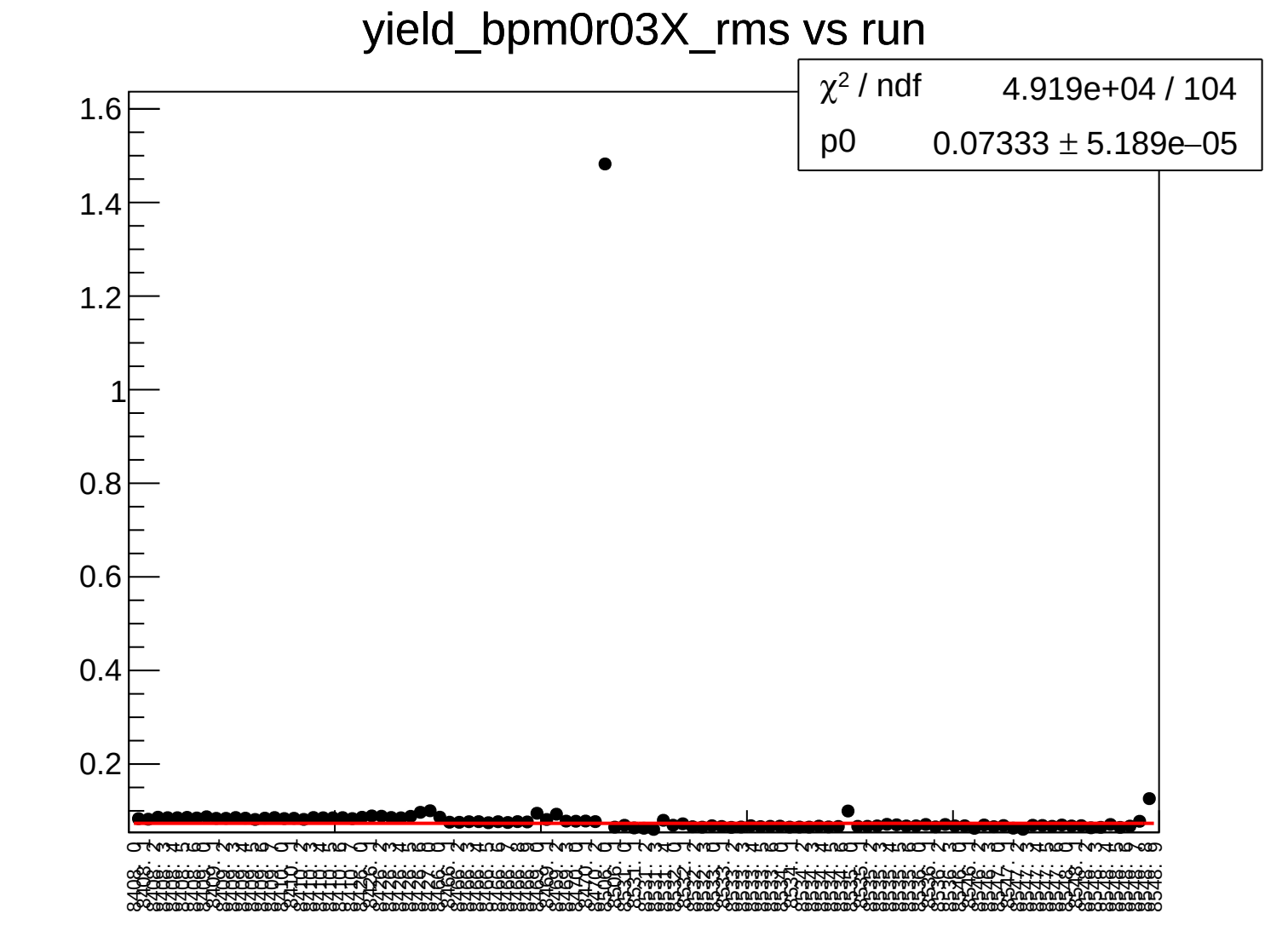

yield_bpm0l10Y_mean vs run
χ² / ndf 1.559e+08 / 104
p0 −0.09226 ± 5.766e−06
0.05
0
−0.05
−0.1
−0.15
−0.2
pull
Entries 105
Mean 180.2
Std Dev 0
1500
1000
500
0
−500
−1000
−1500
−2000
−2500

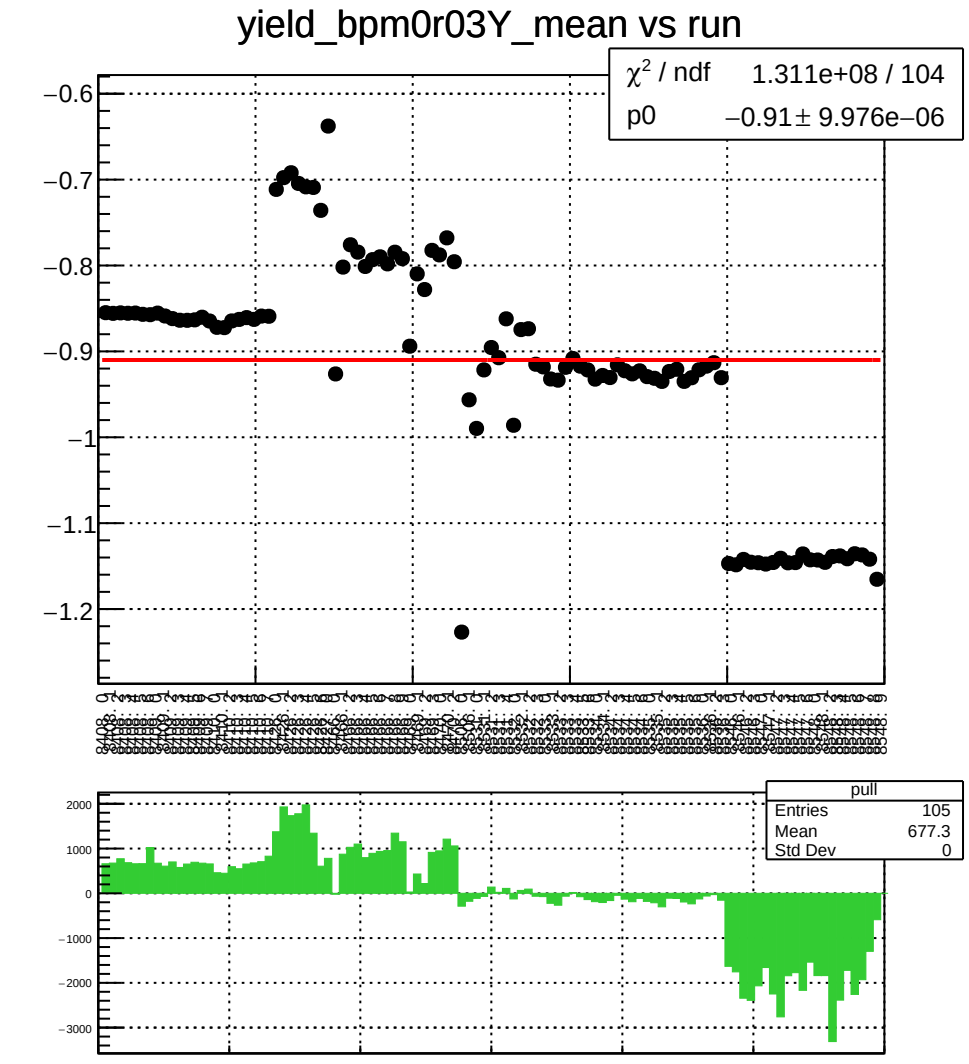

pull1D
Entries 105
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

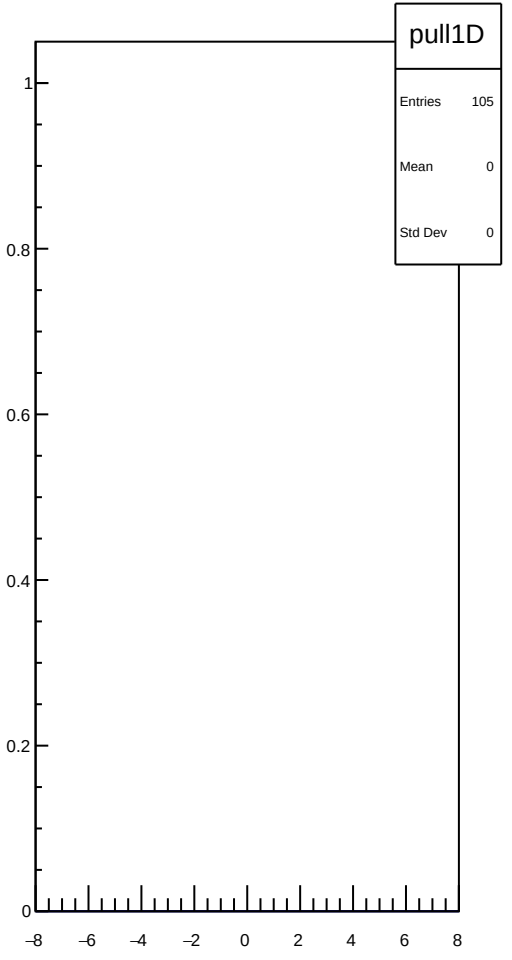

yield_bpm0l10Y_rms vs run
χ² / ndf 2.996e+05 / 104
p0 0.005388 ± 4.077e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

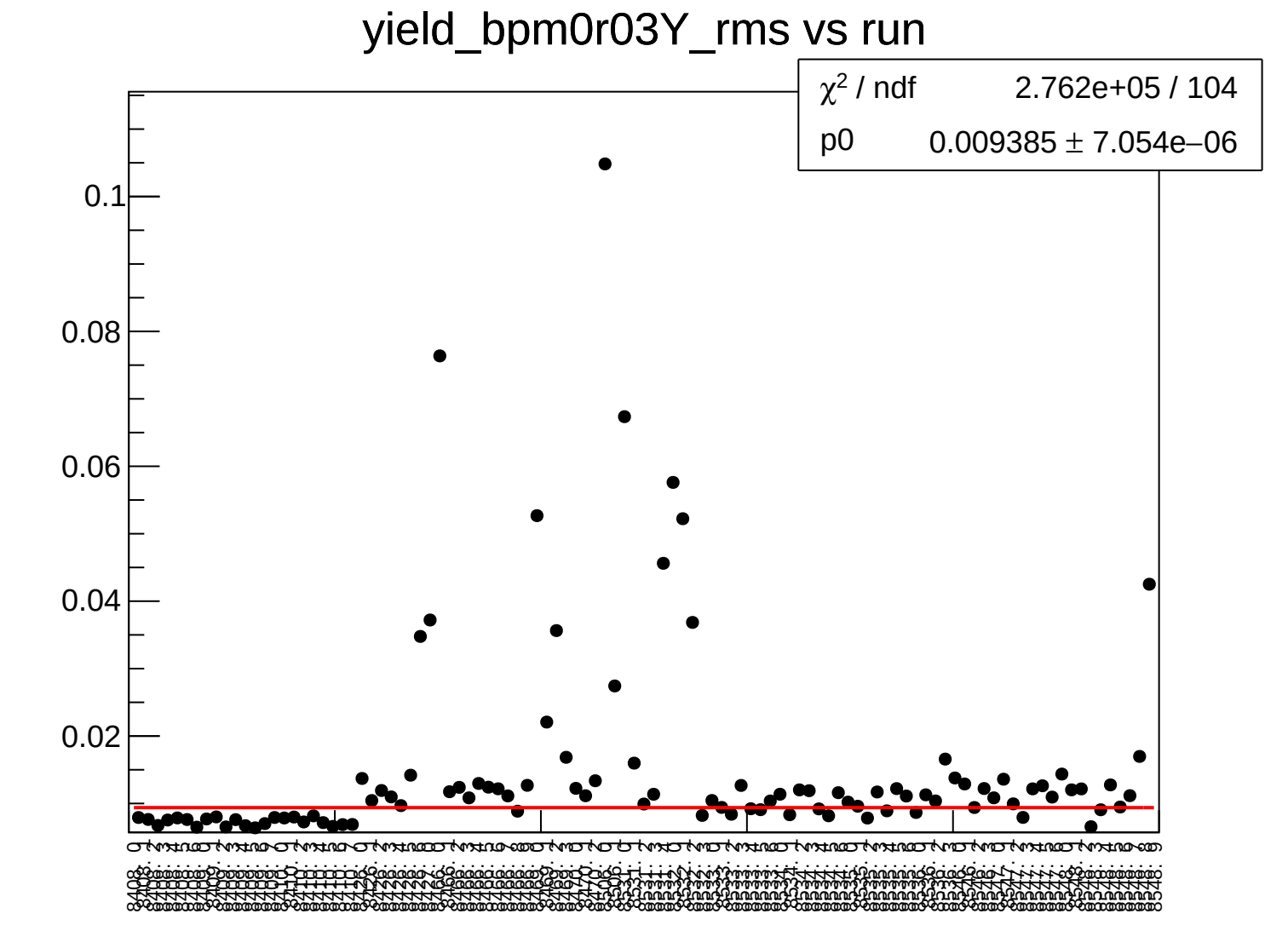

yield_bpm0r03X_mean vs run
χ² / ndf 1.289e+08 / 104
p0 −0.8693 ± 7.339e−05
0.5
0
−0.5
−1
−1.5
pull
Entries 105
Mean −220.9
Std Dev 0
2500
2000
1500
1000
500
0
−500
−1000

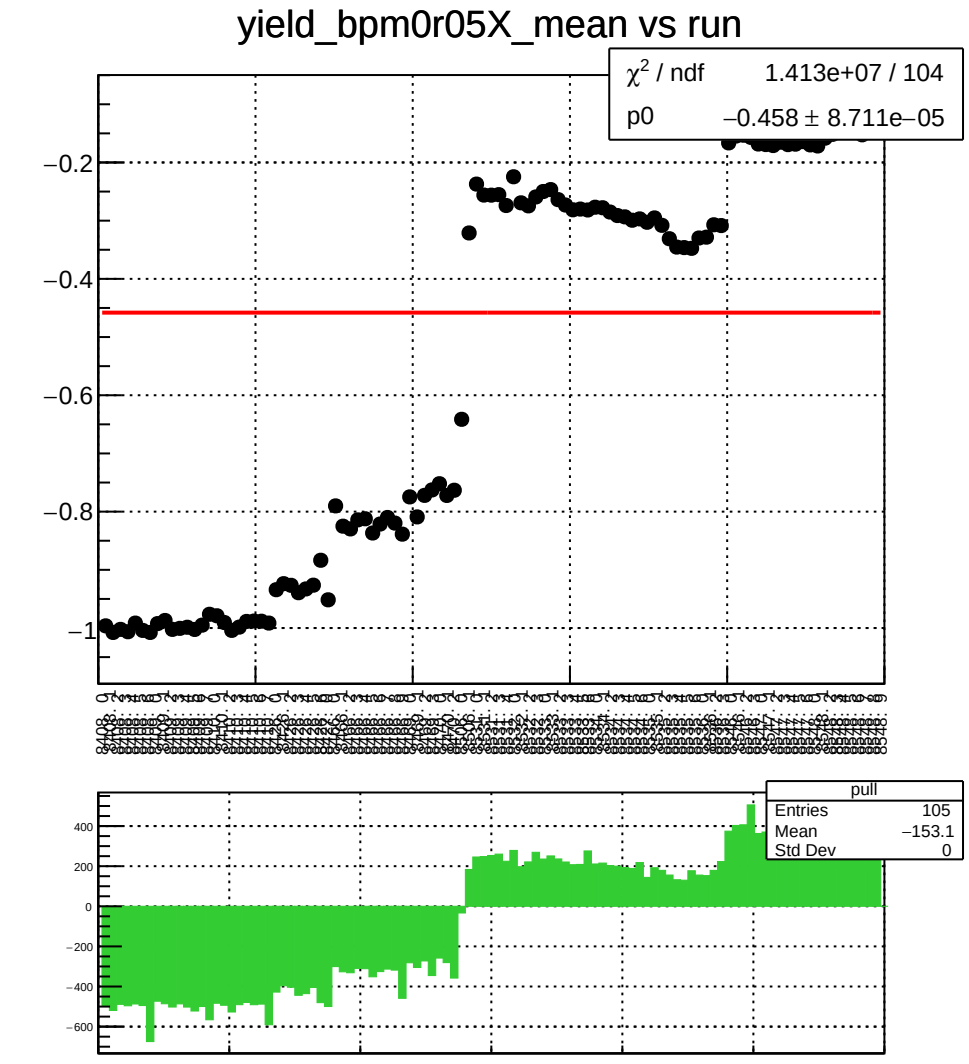

pull1D
Entries 105
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

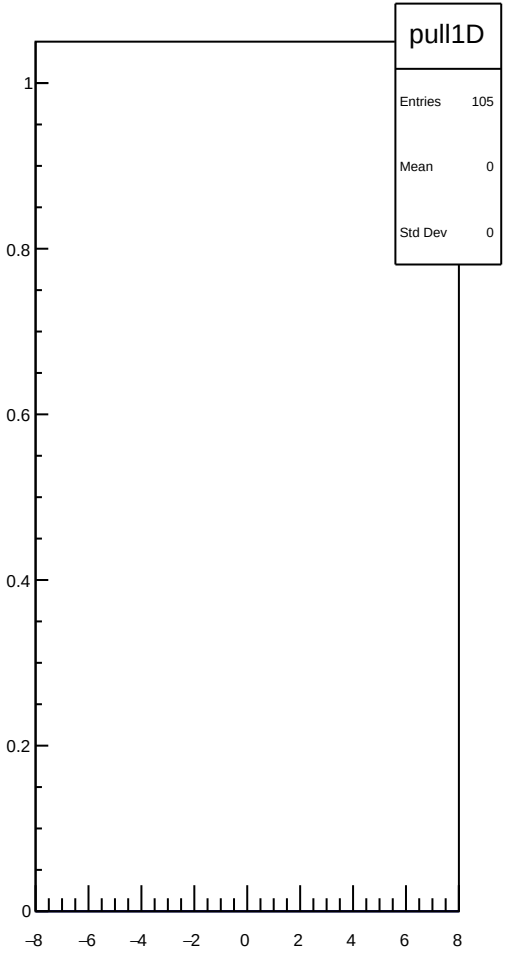

yield_bpm0r03X_rms vs run
χ² / ndf 4.919e+04 / 104
p0 0.07333 ± 5.189e–05
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

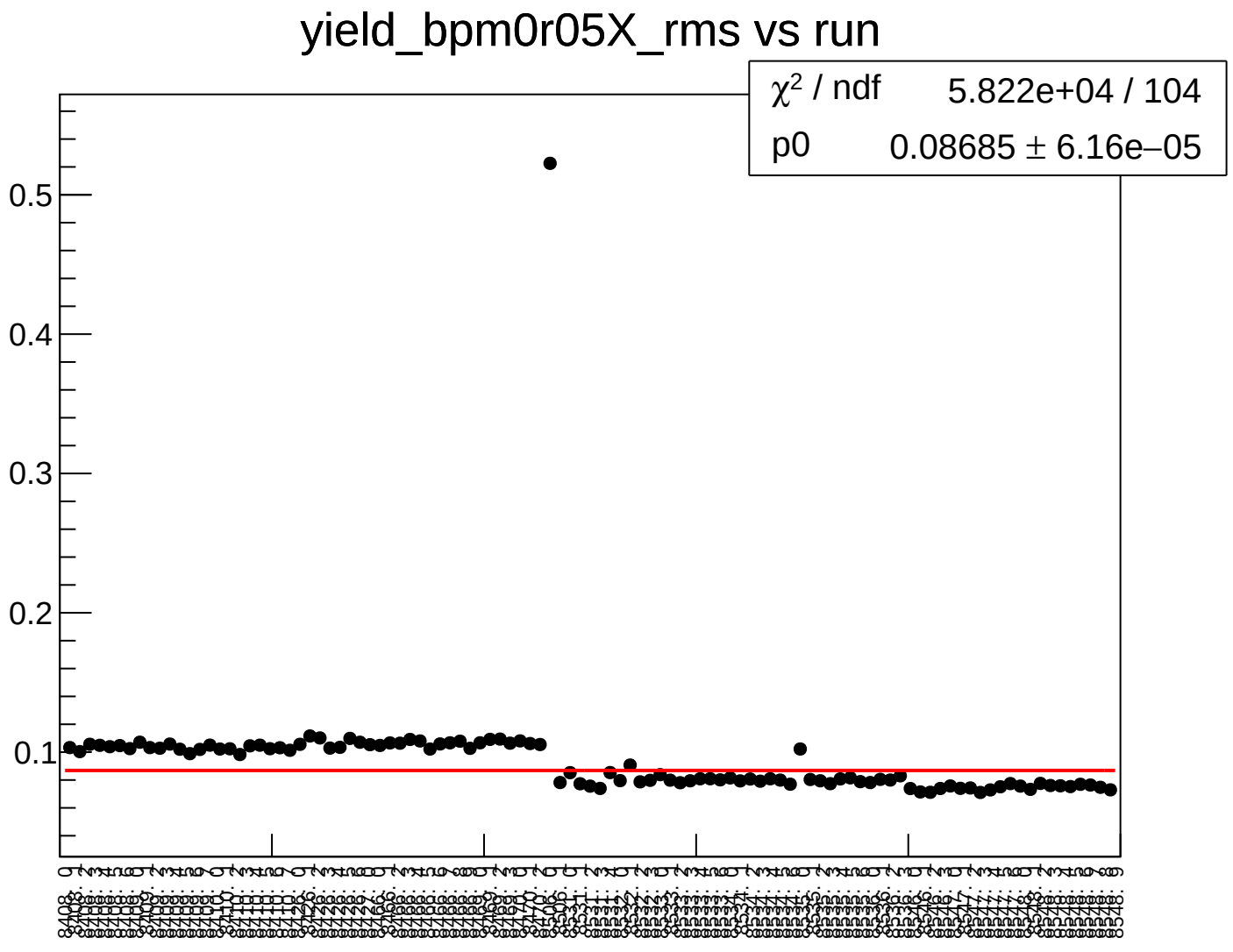

yield_bpm0r03Y_mean vs run
χ² / ndf 1.311e+08 / 104
p0 −0.91 ± 9.976e−06
−0.6
−0.7
−0.8
−0.9
−1
−1.1
−1.2
pull
Entries 105
Mean 677.3
Std Dev 0
2000
1000
0
−1000
−2000
−3000

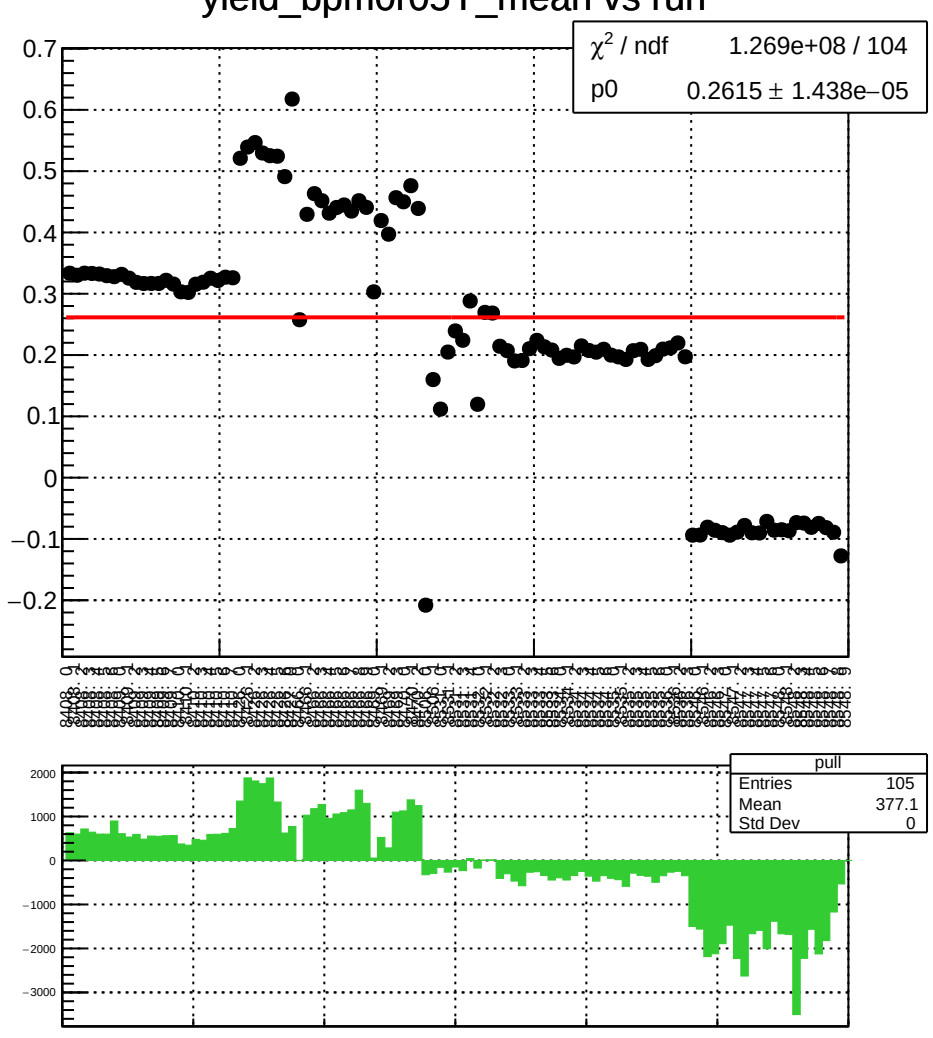

pull1D
Entries 105
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

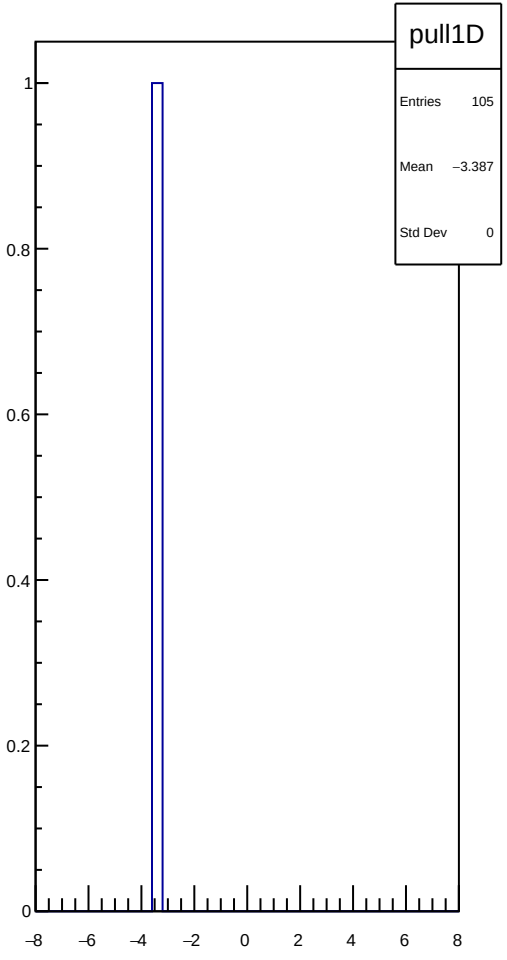

yield_bpm0r03Y_rms vs run
χ² / ndf 2.762e+05 / 104
p0 0.009385 ± 7.054e−06
0.1
0.08
0.06
0.04
0.02

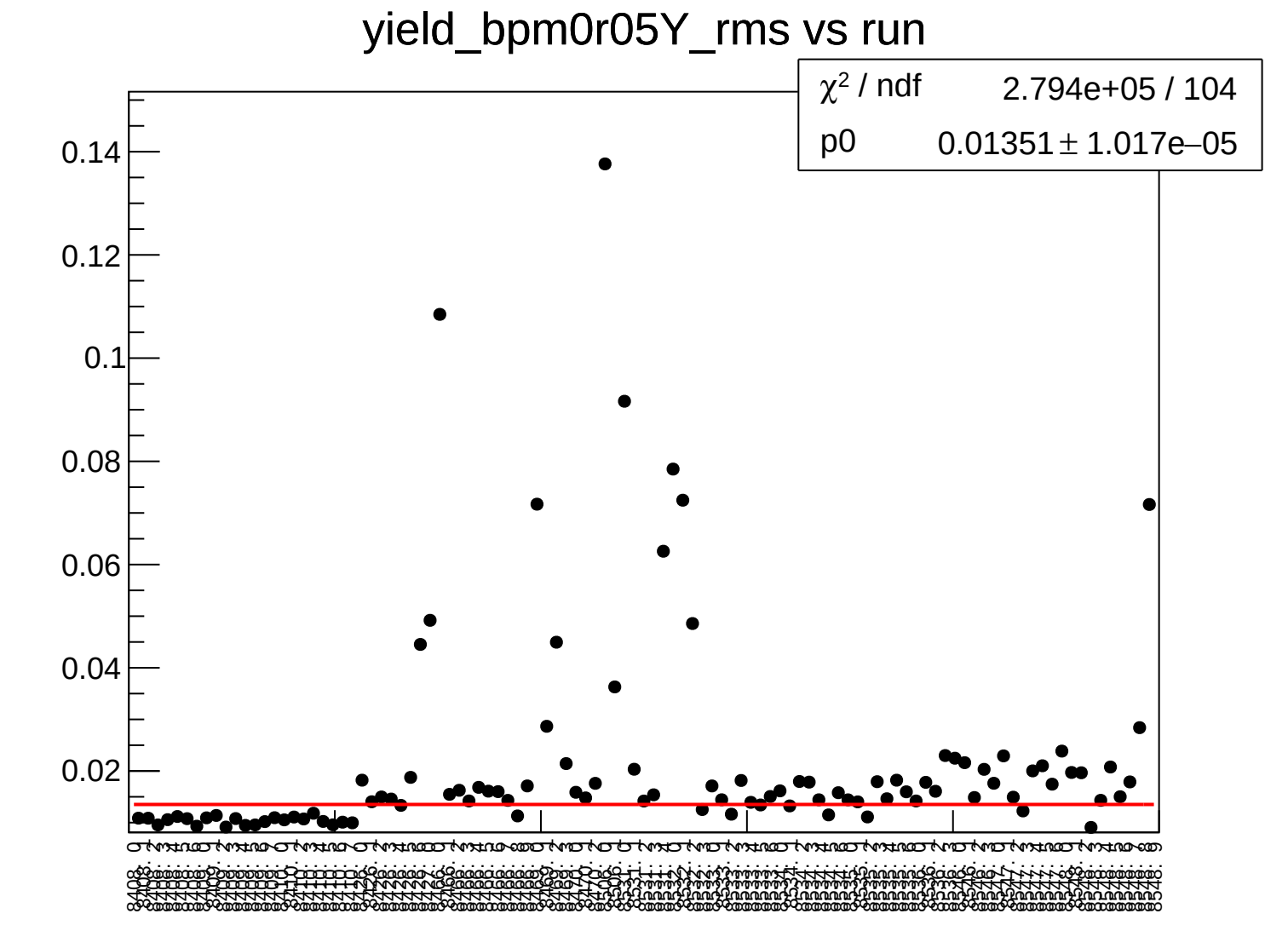

yield_bpm0r05X_mean vs run
χ² / ndf 1.413e+07 / 104
p0 −0.458 ± 8.711e−05
−0.2
−0.4
−0.6
−0.8
−1
pull
Entries 105
Mean −153.1
Std Dev 0
400
200
0
−200
−400
−600

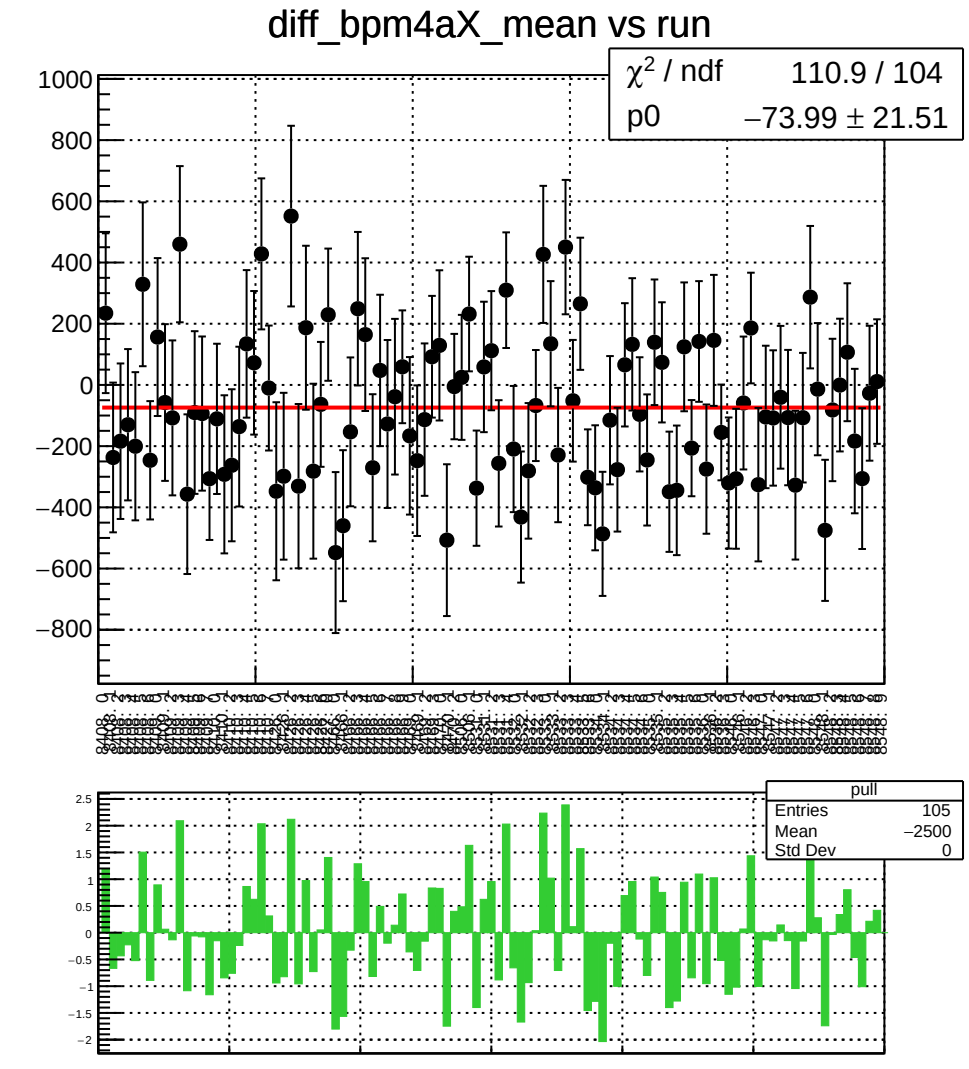

pull1D
Entries 105
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

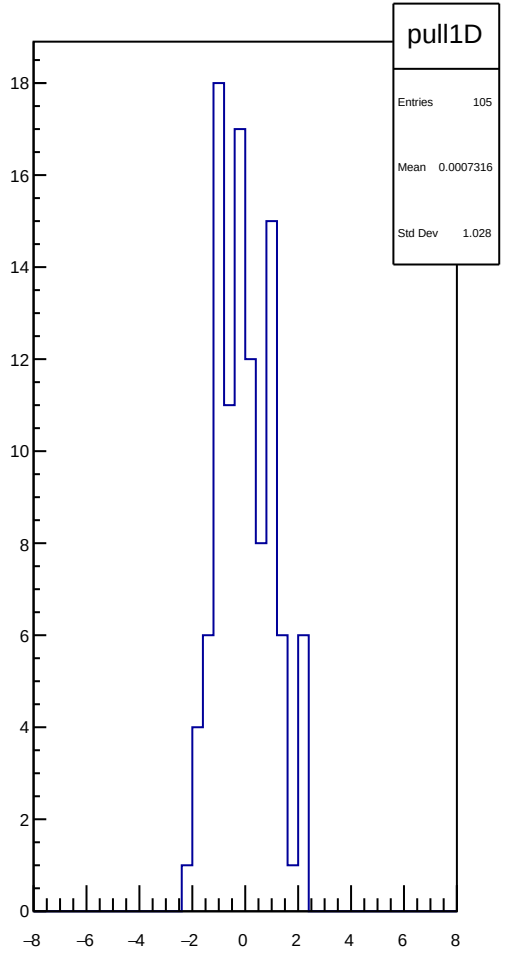

yield_bpm0r05X_rms vs run
χ² / ndf 5.822e+04 / 104
p0 0.08685 ± 6.16e−05
0.5
0.4
0.3
0.2
0.1

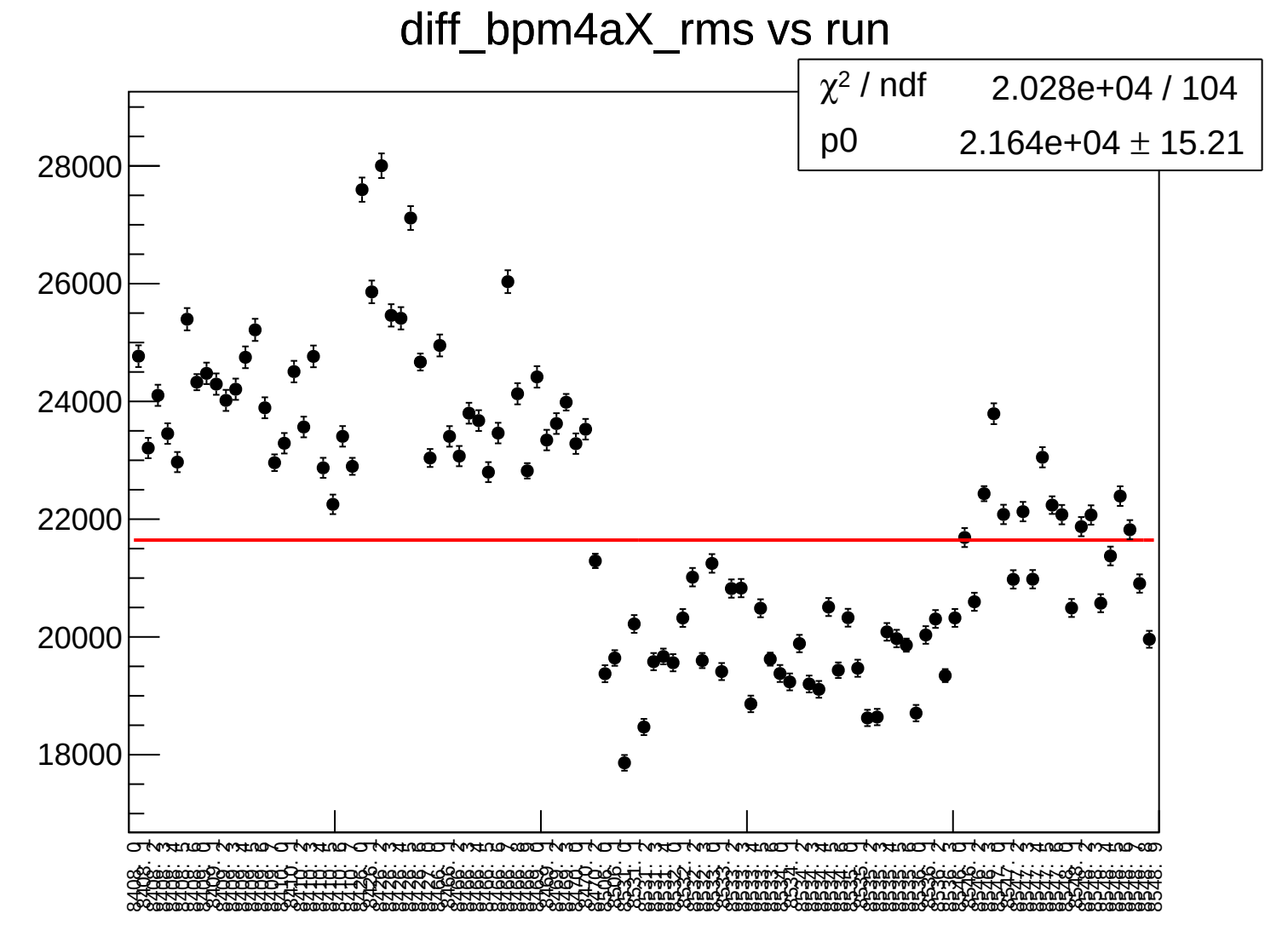

yield_bpm0r05Y_mean vs run
χ² / ndf 1.269e+08 / 104
p0 0.2615 ± 1.438e−05
pull
Entries 105
Mean 377.1
Std Dev 0

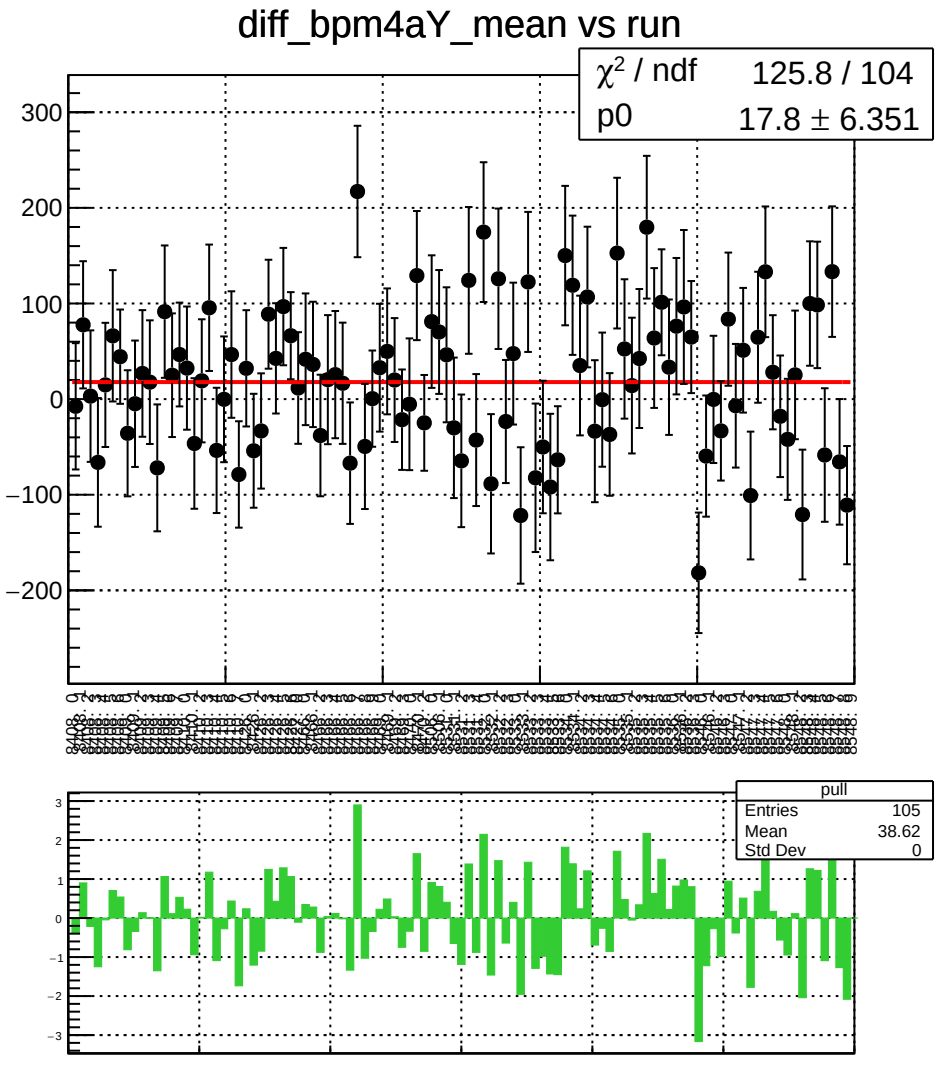

pull1D
Entries 105
Mean −3.387
Std Dev 0

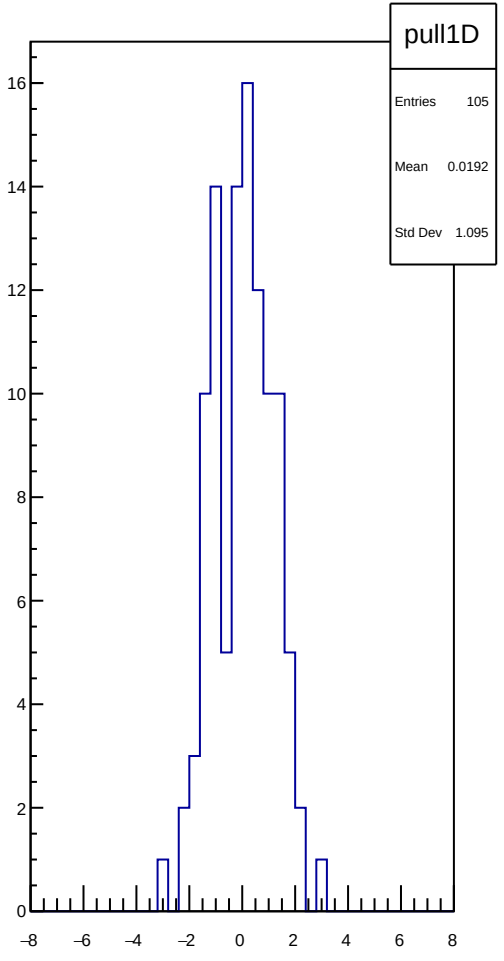

yield_bpm0r05Y_rms vs run
χ² / ndf 2.794e+05 / 104
p0 0.01351 ± 1.017e–05
0.14
0.12
0.1
0.08
0.06
0.04
0.02

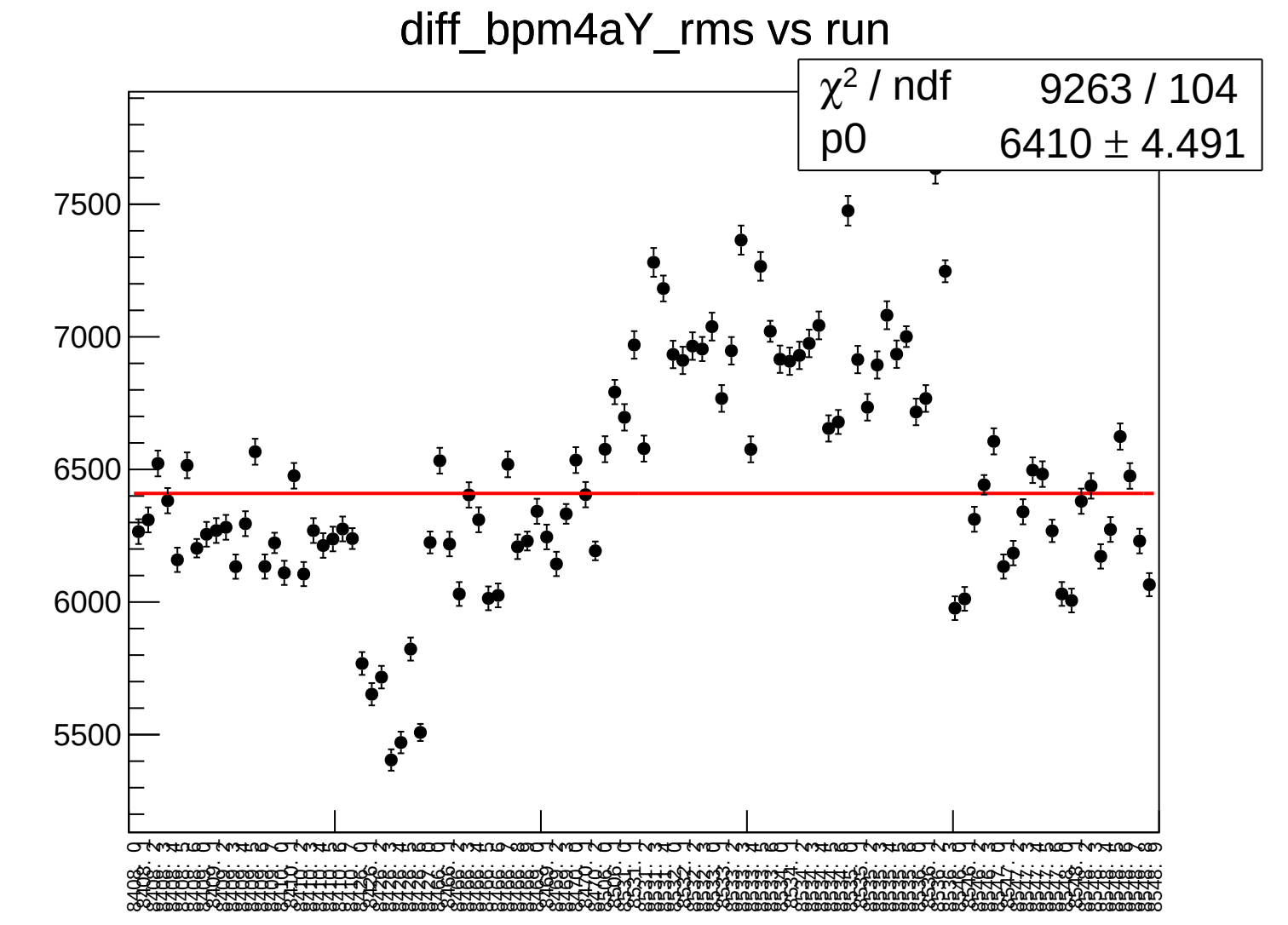

diff_bpm4aX_mean vs run
χ² / ndf 110.9 / 104
p0 −73.99 ± 21.51
pull
Entries 105
Mean −2500
Std Dev 0

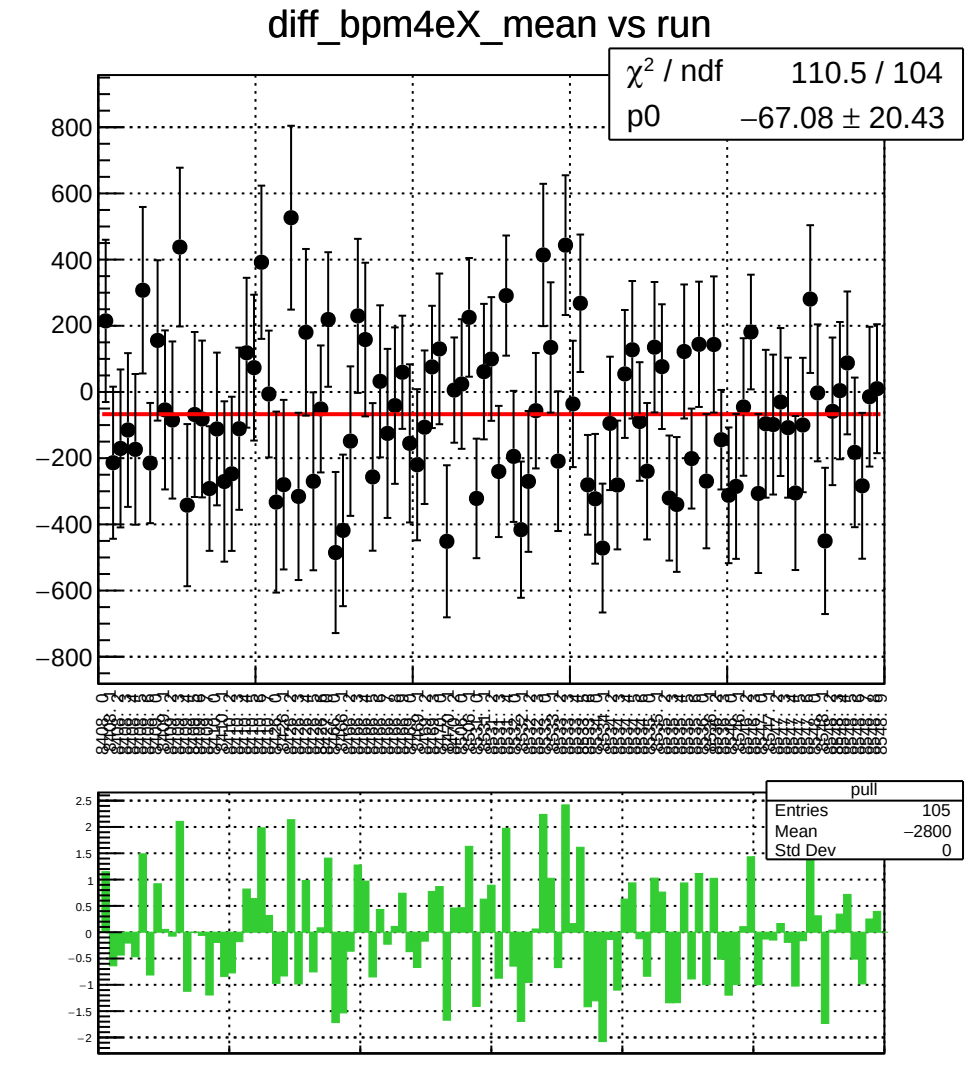

pull1D
Entries 105
Mean 0.0007316
Std Dev 1.028

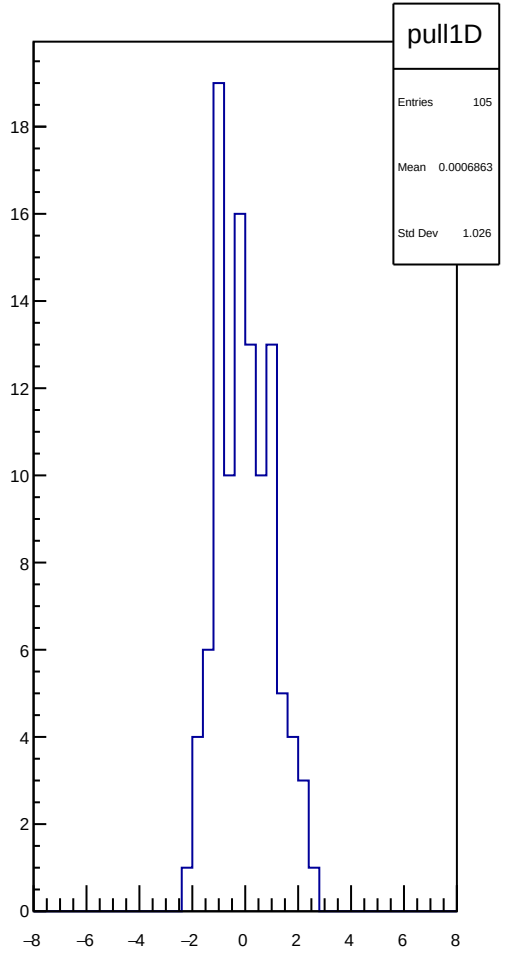

diff_bpm4aX_rms vs run
χ² / ndf 2.028e+04 / 104
p0 2.164e+04 ± 15.21
28000
26000
24000
22000
20000
18000

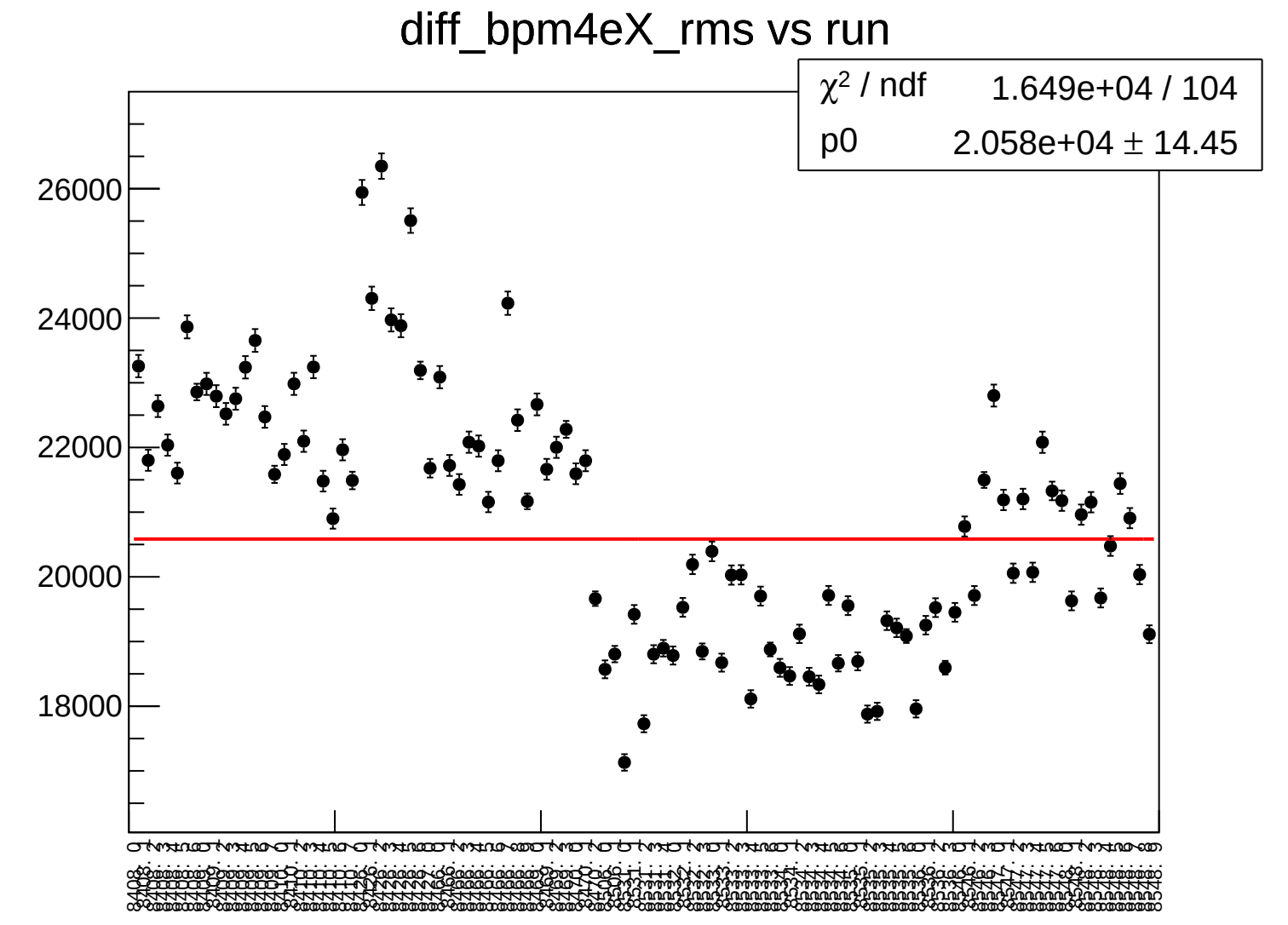

diff_bpm4aY_mean vs run
χ² / ndf 125.8 / 104
p0 17.8 ± 6.351
300
200
100
0
−100
−200
pull
Entries 105
Mean 38.62
Std Dev 0
3
2
1
0
−1
−2
−3

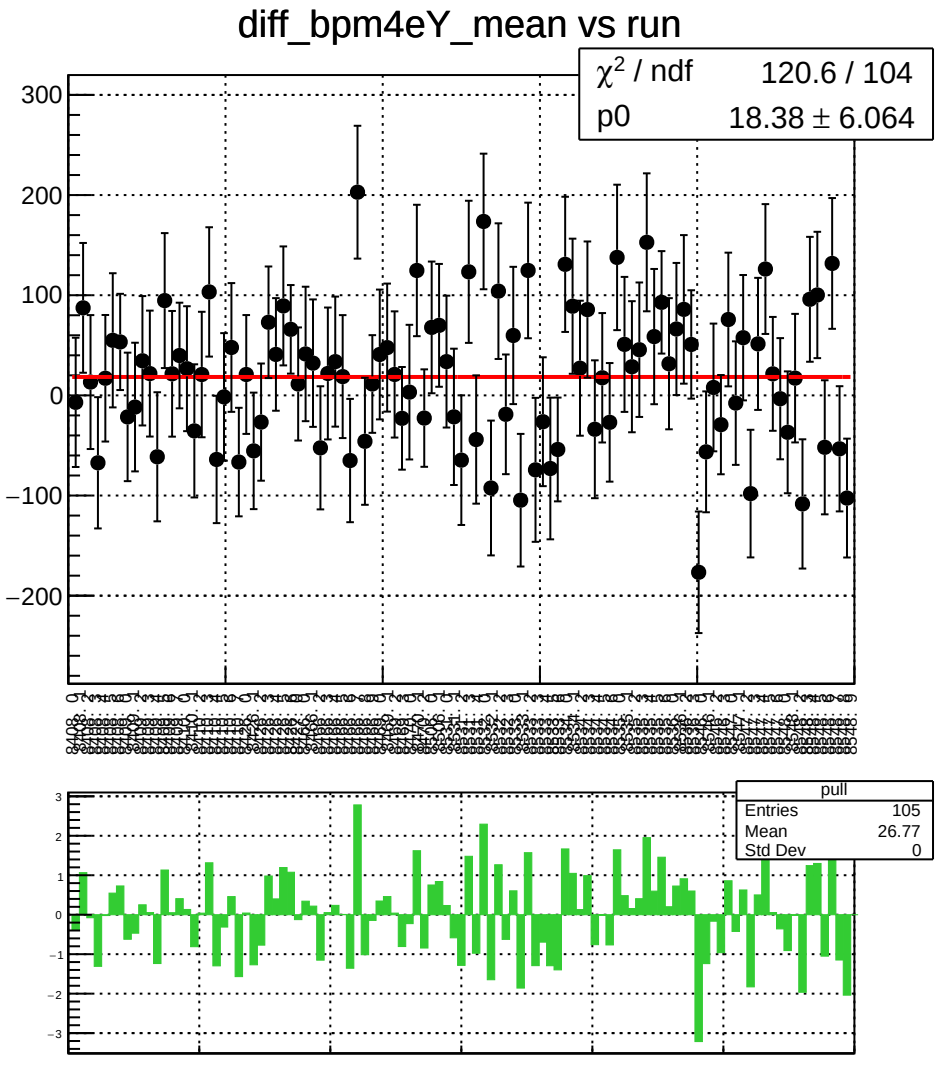

pull1D
Entries 105
Mean 0.0192
Std Dev 1.095
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

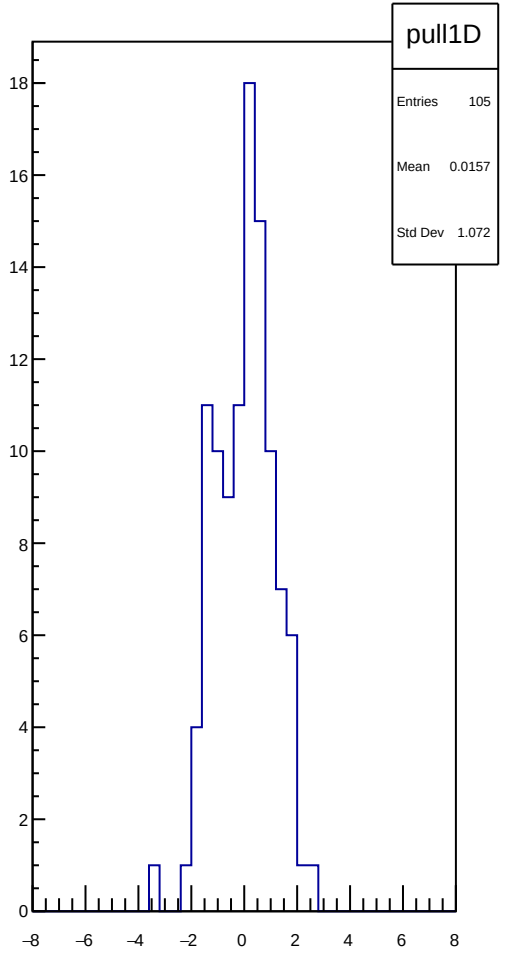

diff_bpm4aY_rms vs run
χ² / ndf 9263 / 104
p0 6410 ± 4.491
7500
7000
6500
6000
5500

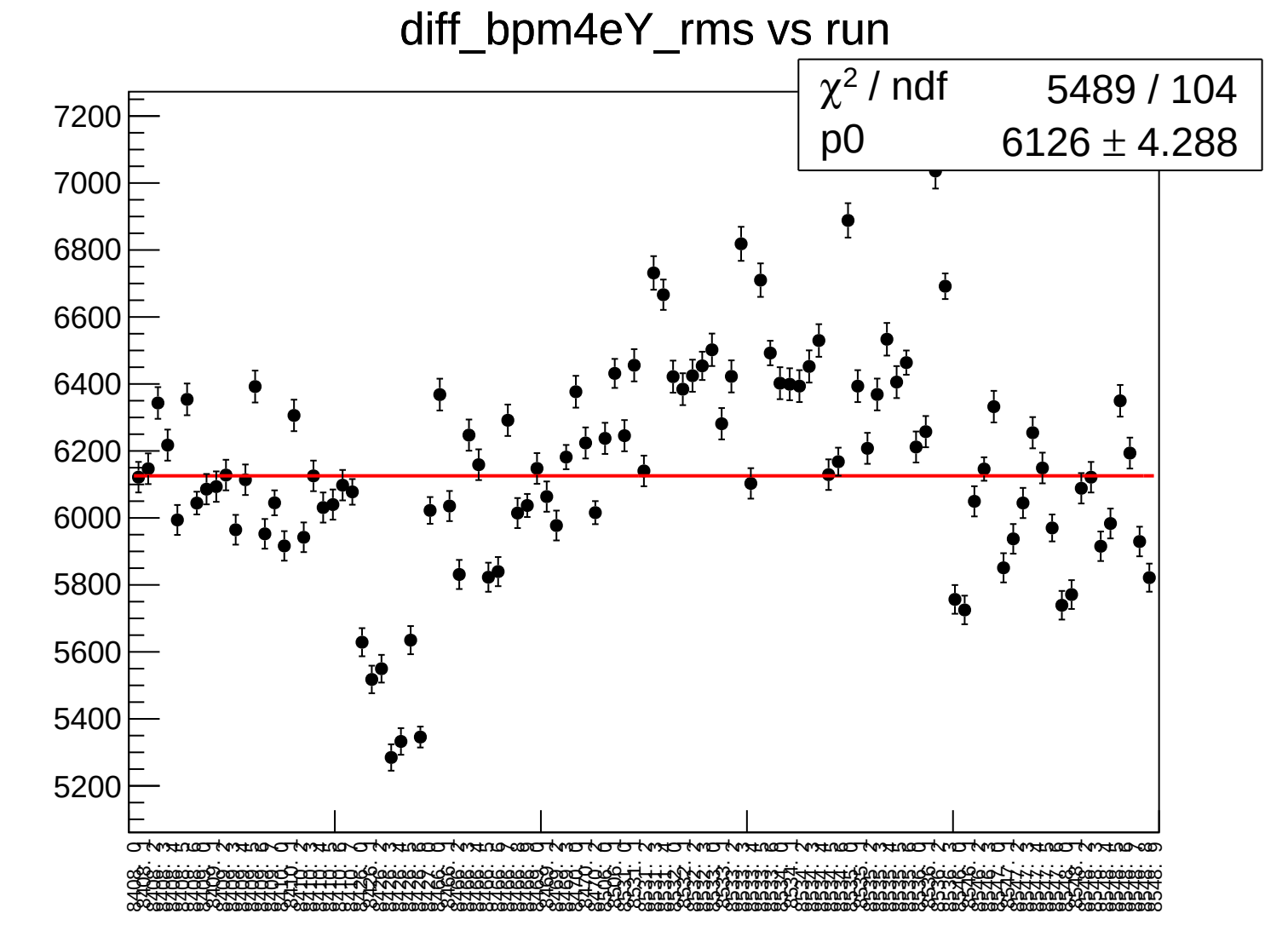

diff_bpm4eX_mean vs run
χ² / ndf 110.5 / 104
p0 −67.08 ± 20.43
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 105
Mean −2800
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

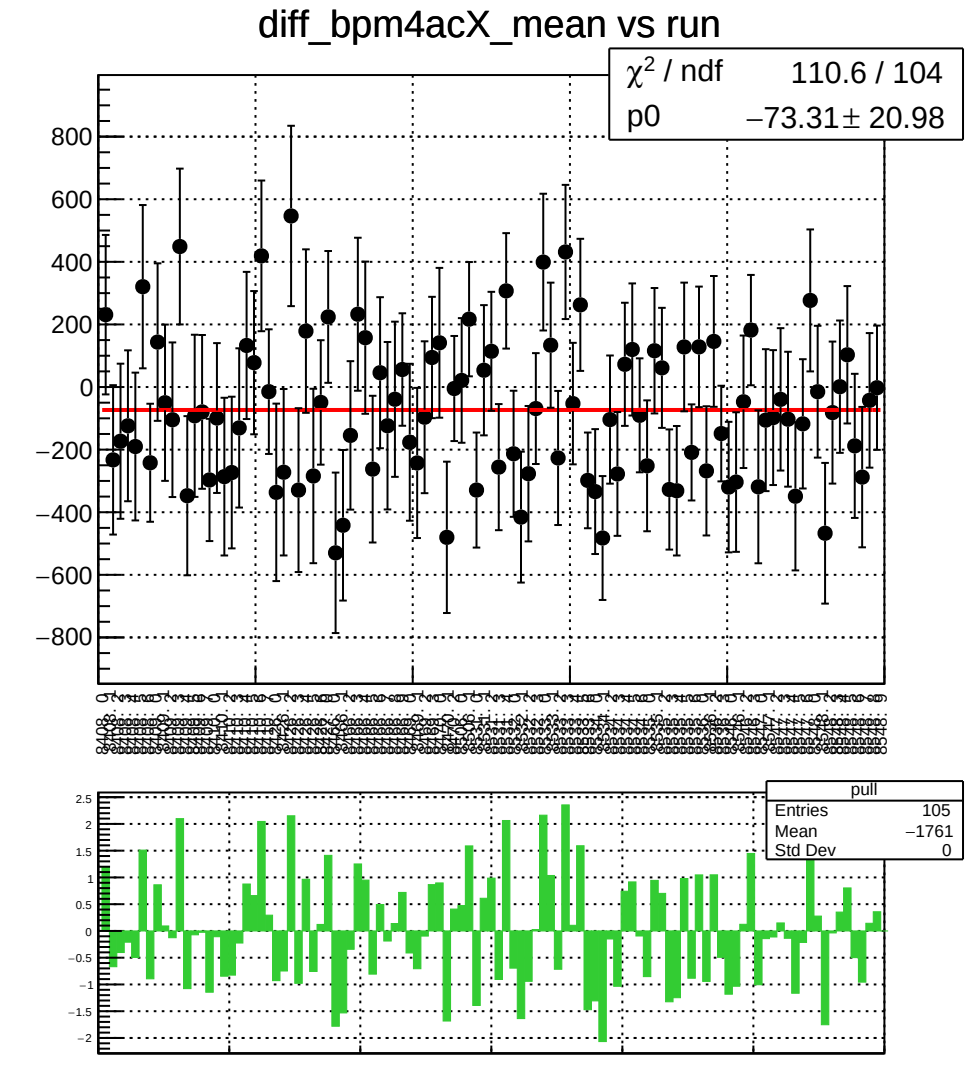

pull1D
Entries 105
Mean 0.0006863
Std Dev 1.026
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

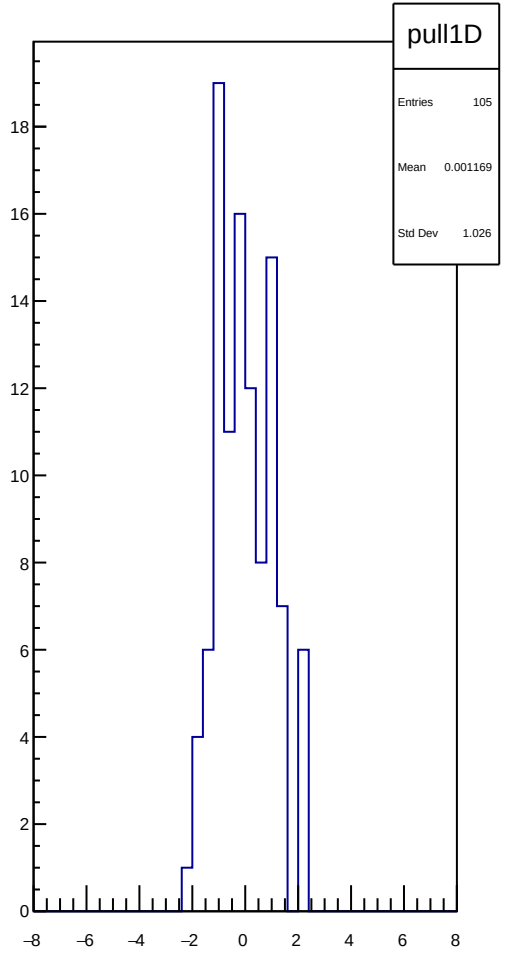

diff_bpm4eX_rms vs run
χ² / ndf 1.649e+04 / 104
p0 2.058e+04 ± 14.45
26000
24000
22000
20000
18000

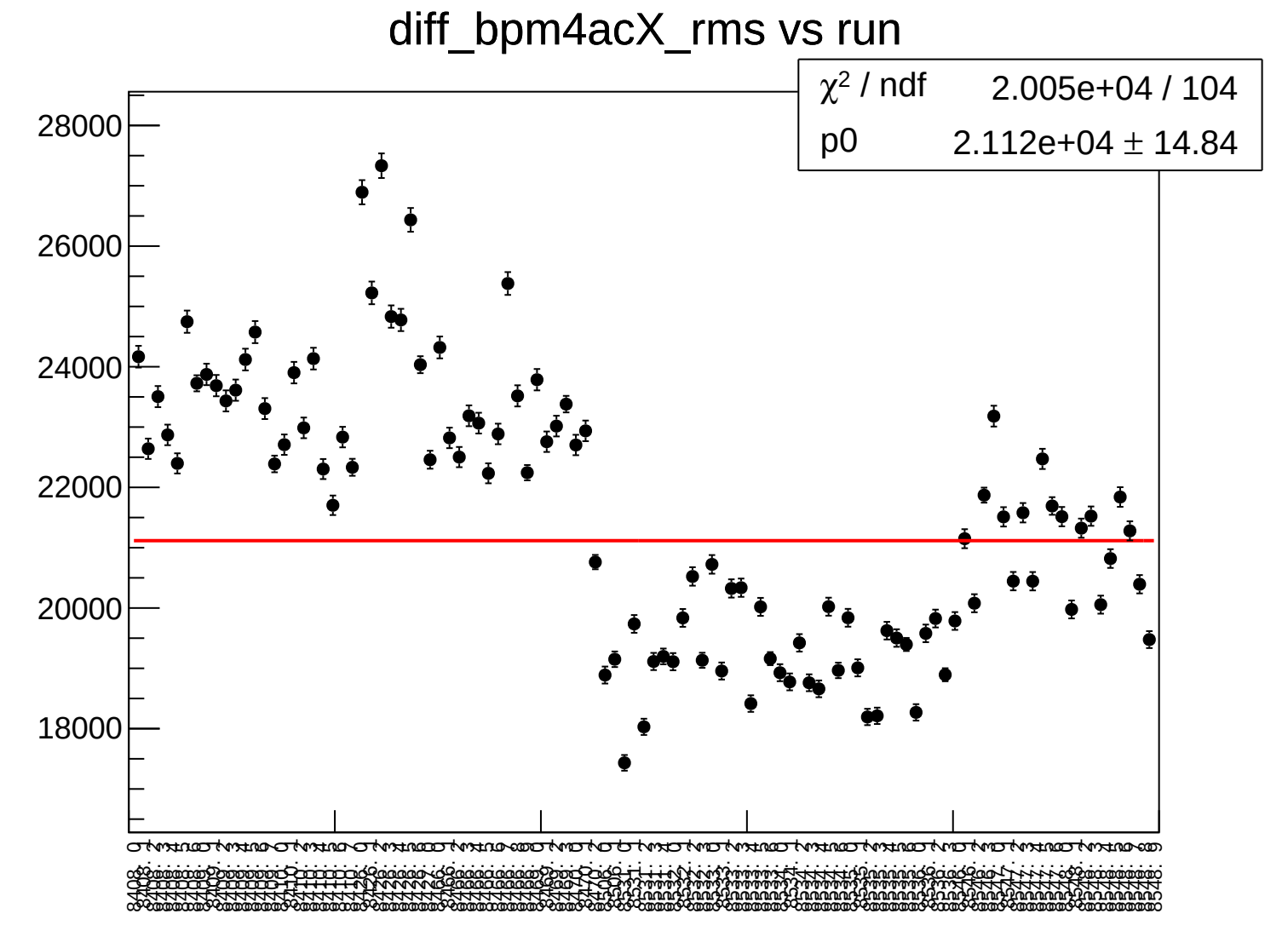

diff_bpm4eY_mean vs run
χ² / ndf 120.6 / 104
p0 18.38 ± 6.064
300
200
100
0
−100
−200
pull
Entries 105
Mean 26.77
Std Dev 0
3
2
1
0
−1
−2
−3

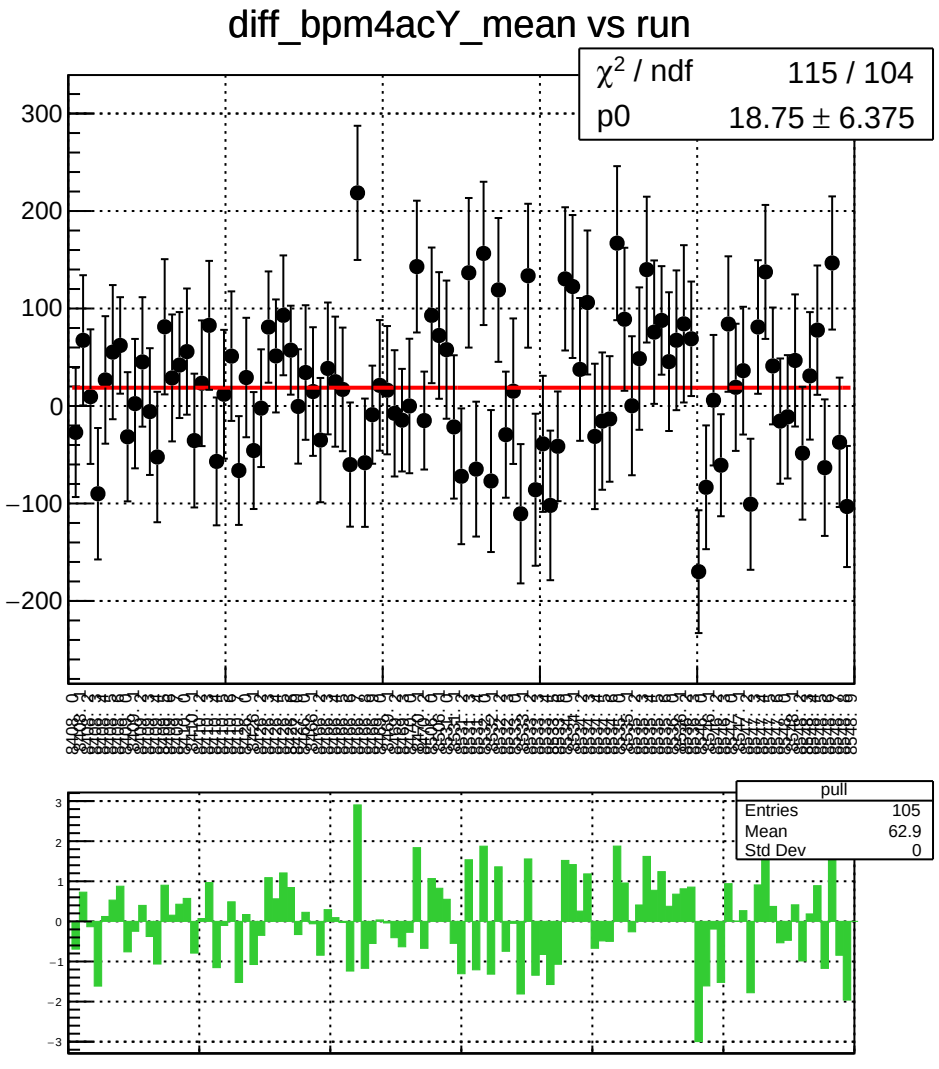

pull1D
Entries 105
Mean 0.0157
Std Dev 1.072
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

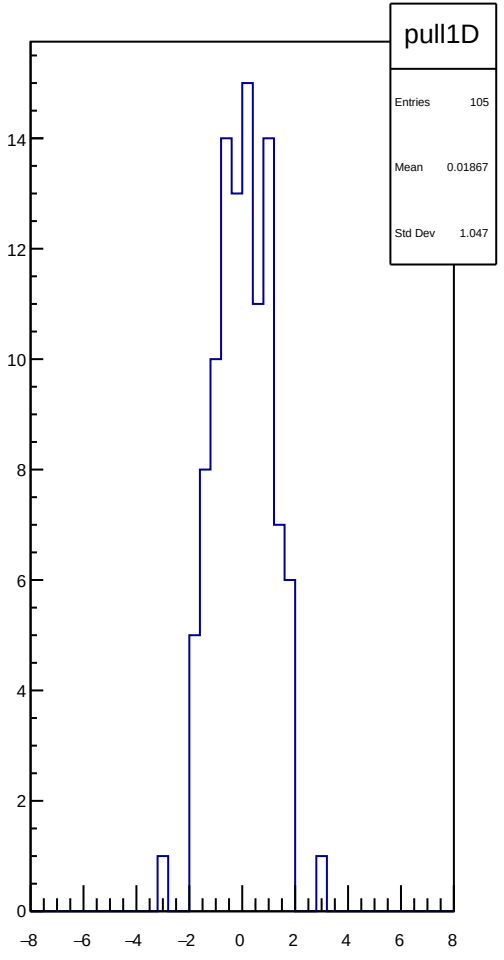

diff_bpm4eY_rms vs run
χ² / ndf 5489 / 104
p0 6126 ± 4.288
7200
7000
6800
6600
6400
6200
6000
5800
5600
5400
5200

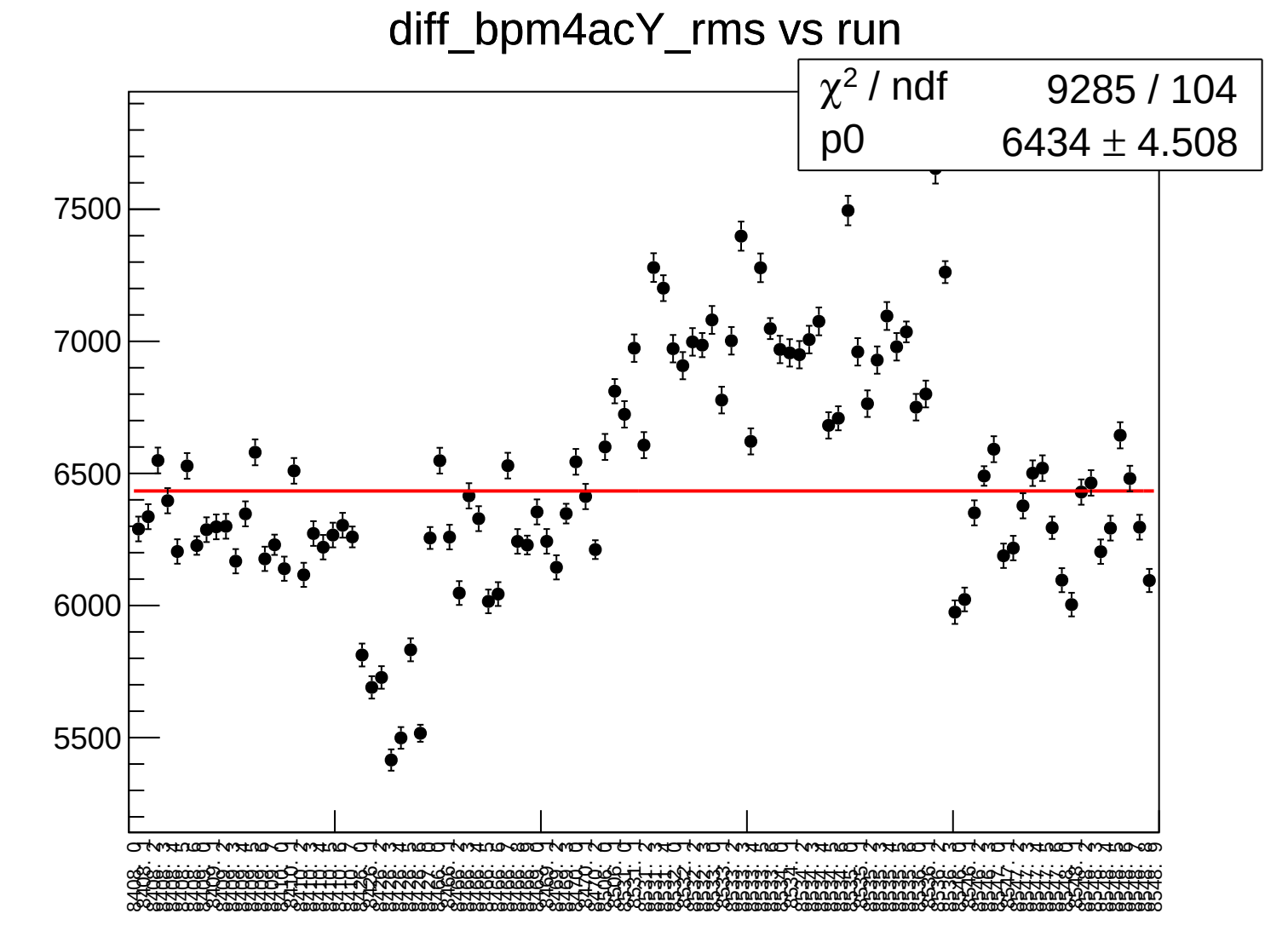

diff_bpm4acX_mean vs run
χ² / ndf 110.6 / 104
p0 −73.31± 20.98
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 105
Mean −1761
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

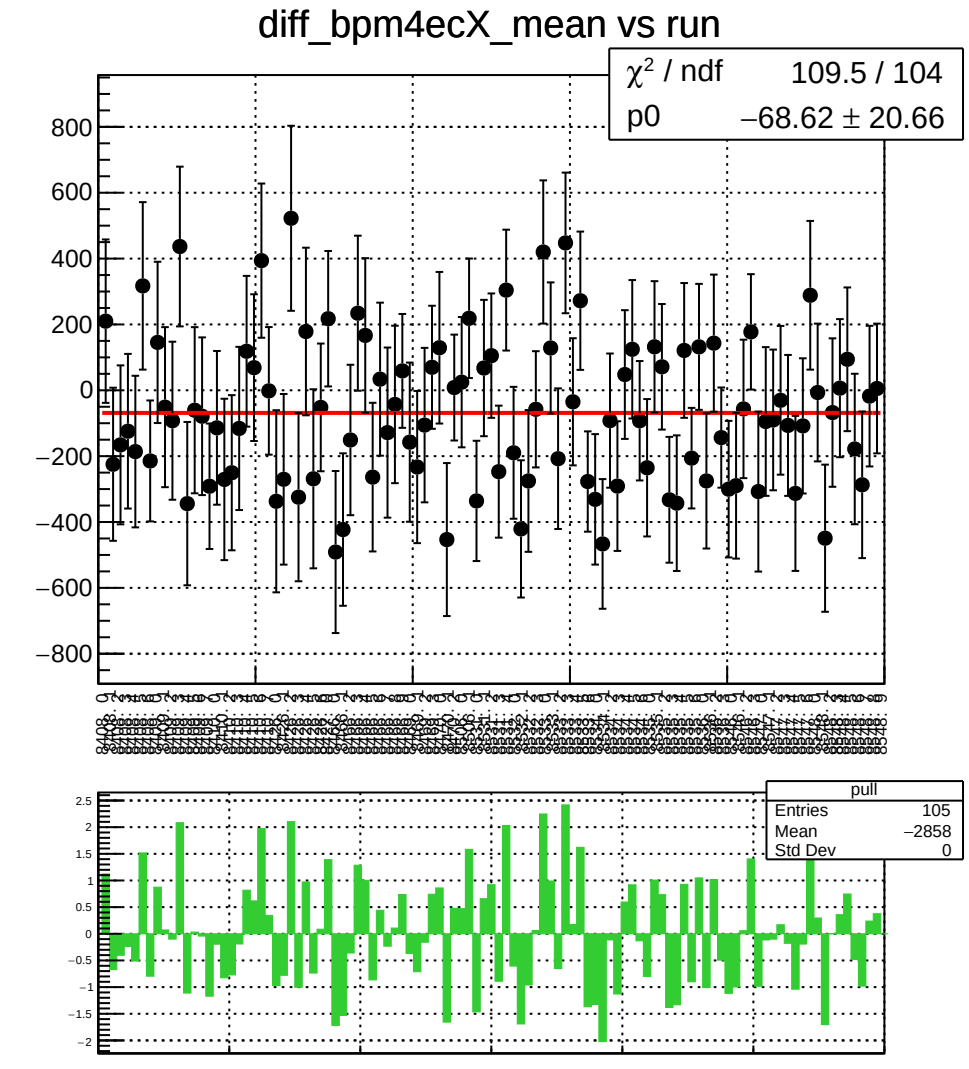

pull1D
Entries 105
Mean 0.001169
Std Dev 1.026
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

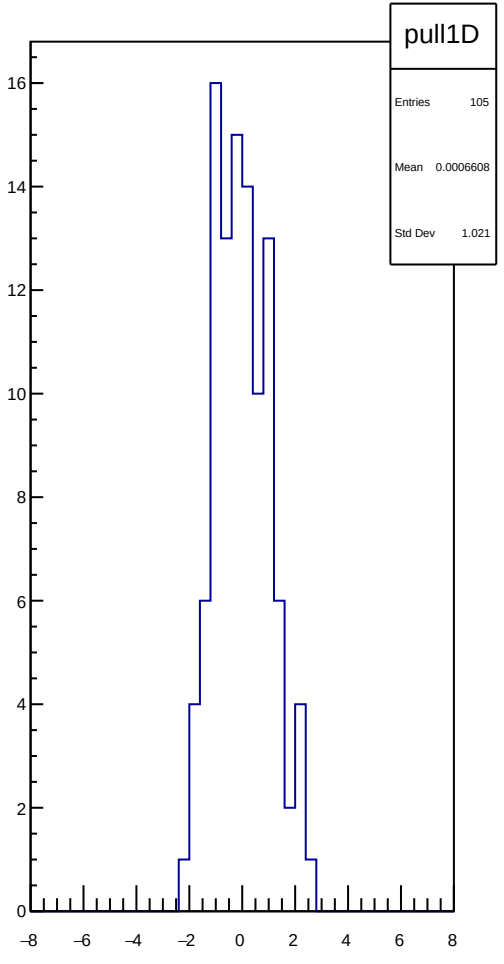

diff_bpm4acX_rms vs run
χ² / ndf 2.005e+04 / 104
p0 2.112e+04 ± 14.84
28000
26000
24000
22000
20000
18000

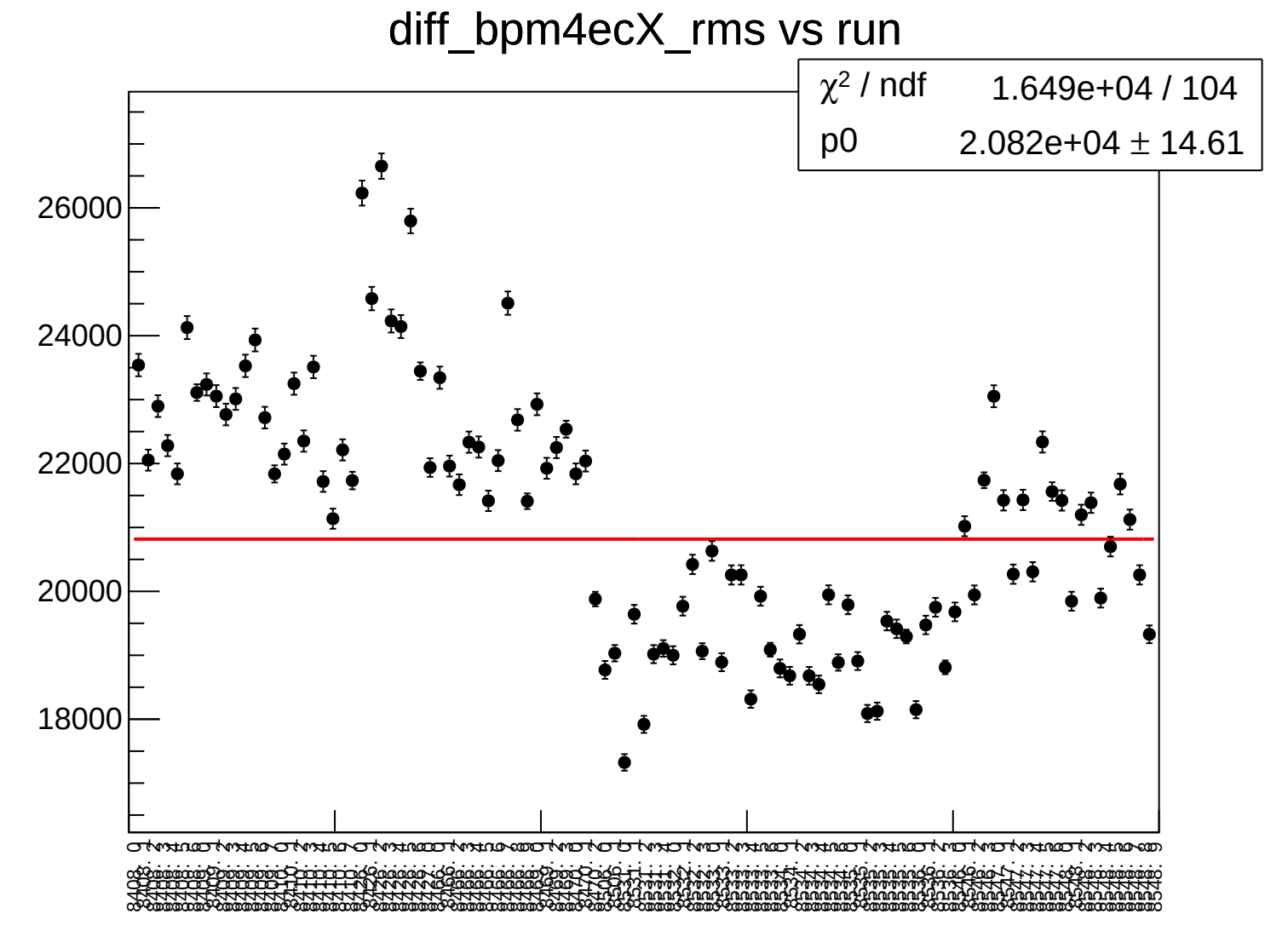

diff_bpm4acY_mean vs run
χ² / ndf 115 / 104
p0 18.75 ± 6.375
300
200
100
0
−100
−200
pull
Entries 105
Mean 62.9
Std Dev 0
3
2
1
0
−1
−2
−3

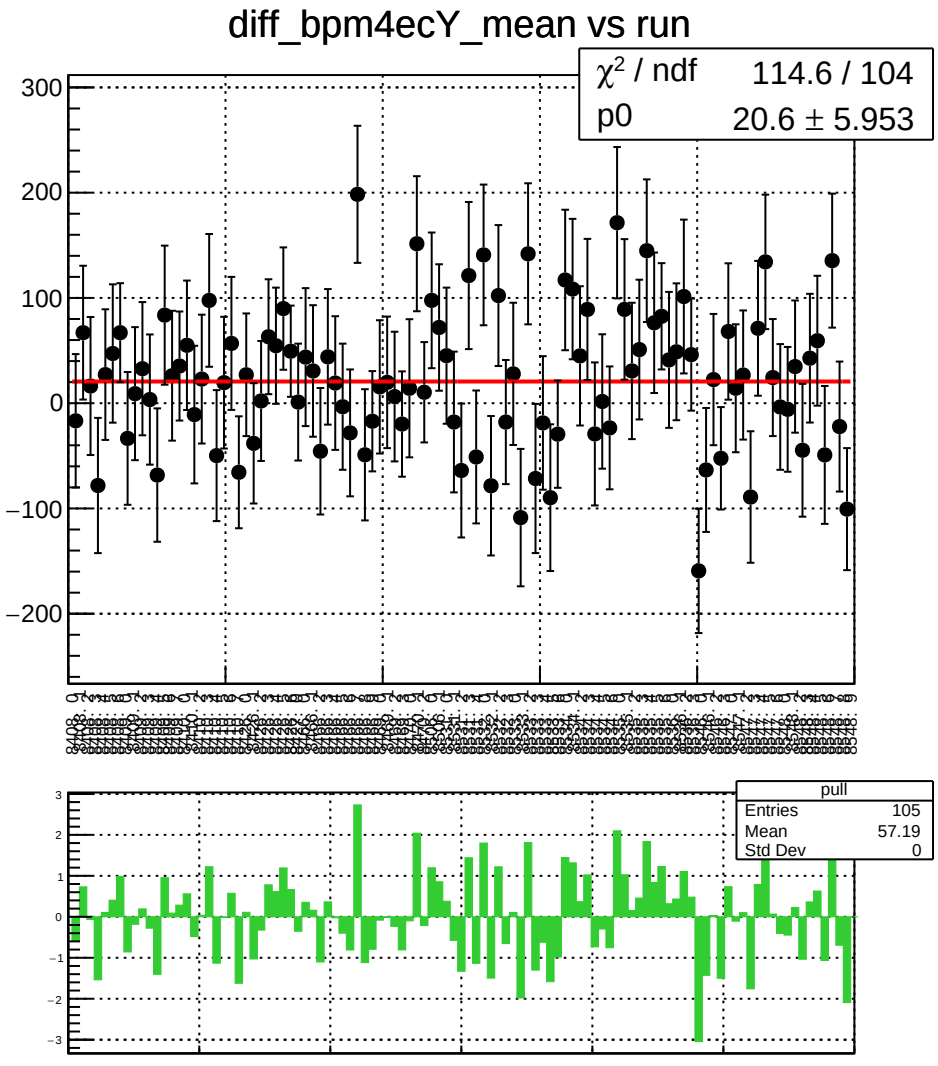

pull1D
Entries 105
Mean 0.01867
Std Dev 1.047
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

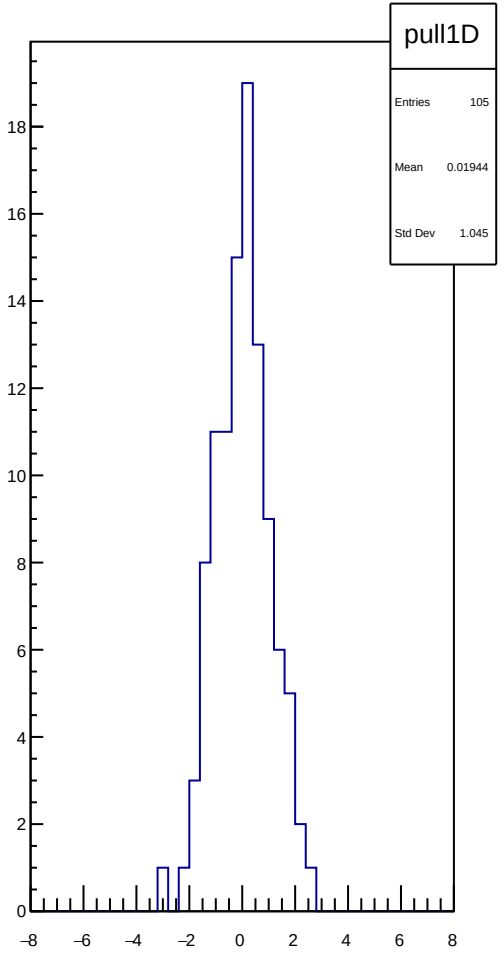

diff_bpm4acY_rms vs run
χ² / ndf 9285 / 104
p0 6434 ± 4.508
7500
7000
6500
6000
5500

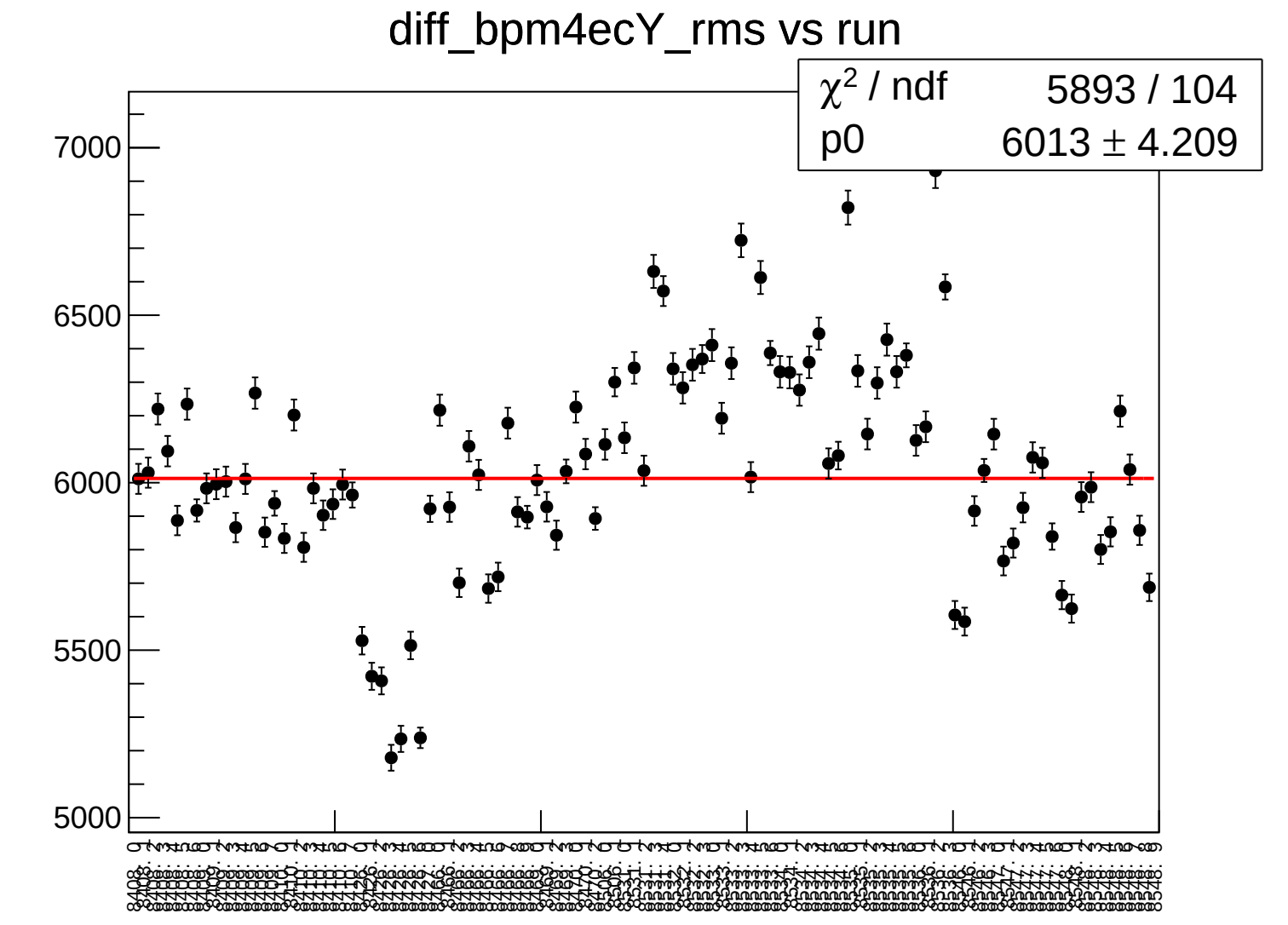

diff_bpm4ecX_mean vs run
χ² / ndf 109.5 / 104
p0 −68.62 ± 20.66
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 105
Mean −2858
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

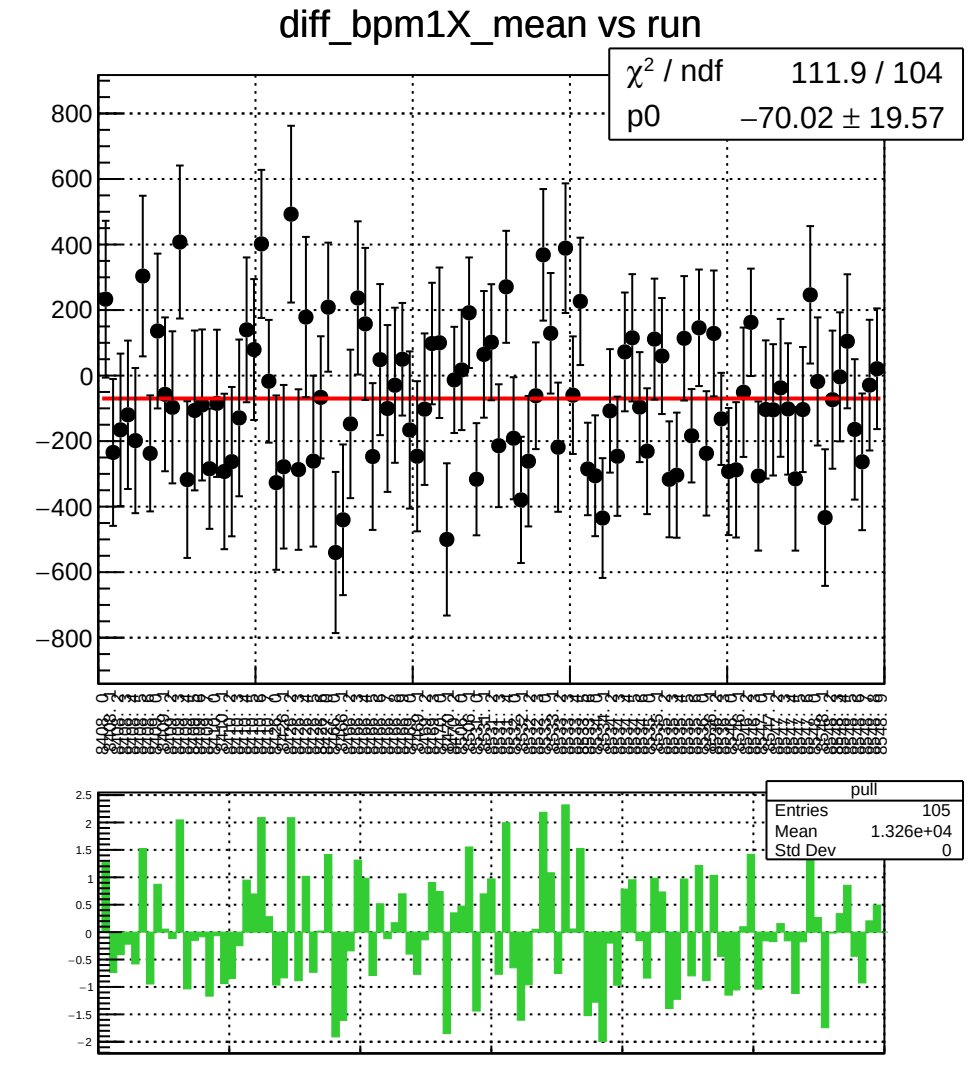

pull1D
Entries 105
Mean 0.0006608
Std Dev 1.021
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

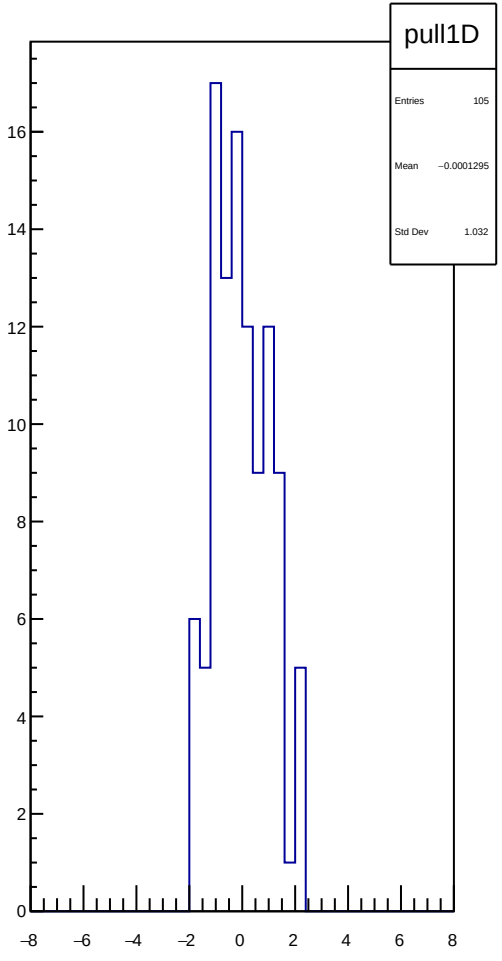

diff_bpm4ecX_rms vs run
χ² / ndf 1.649e+04 / 104
p0 2.082e+04 ± 14.61
26000
24000
22000
20000
18000

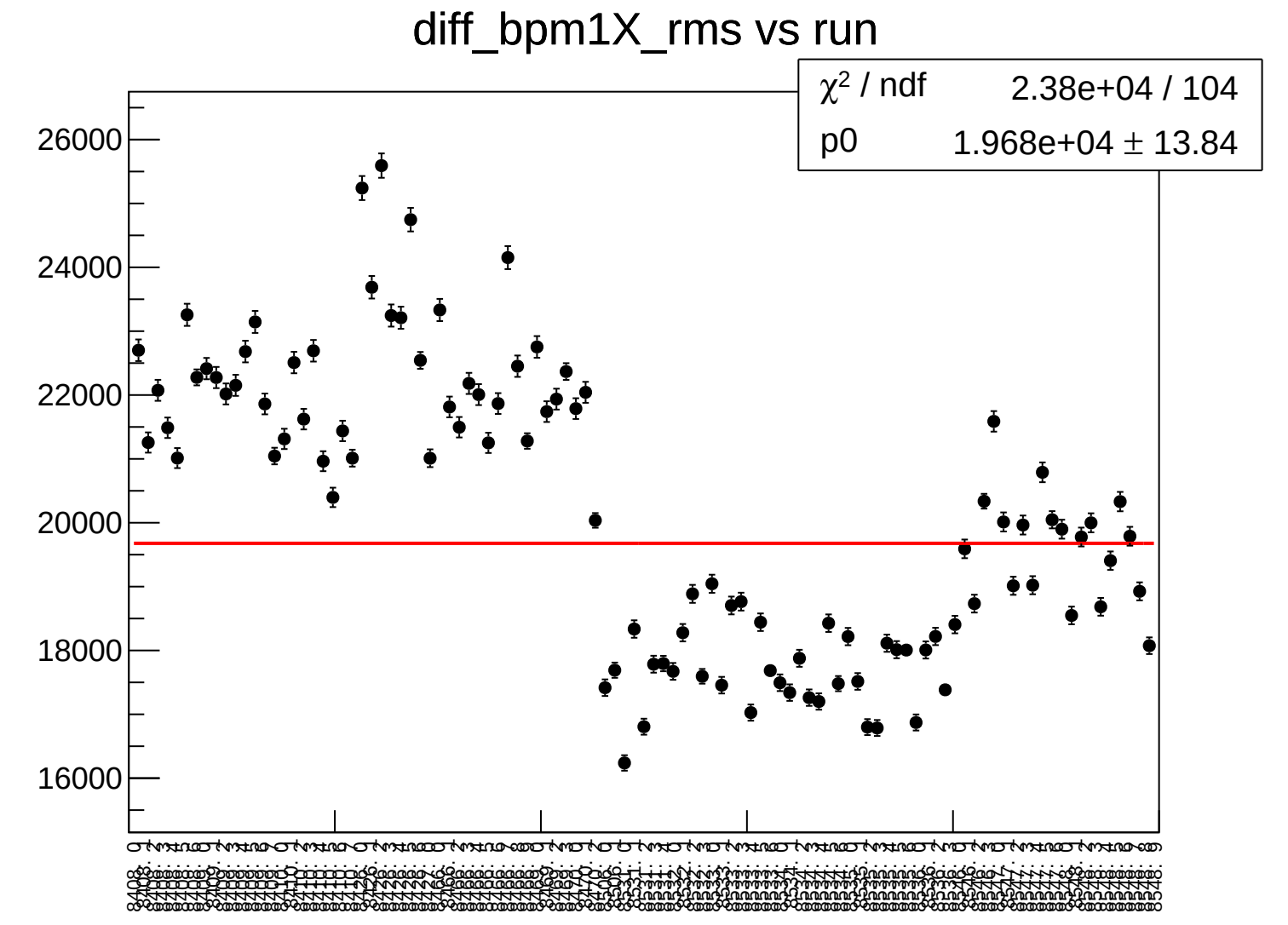

diff_bpm4ecY_mean vs run
χ² / ndf 114.6 / 104
p0 20.6 ± 5.953
300
200
100
0
−100
−200
pull
Entries 105
Mean 57.19
Std Dev 0
3
2
1
0
−1
−2
−3

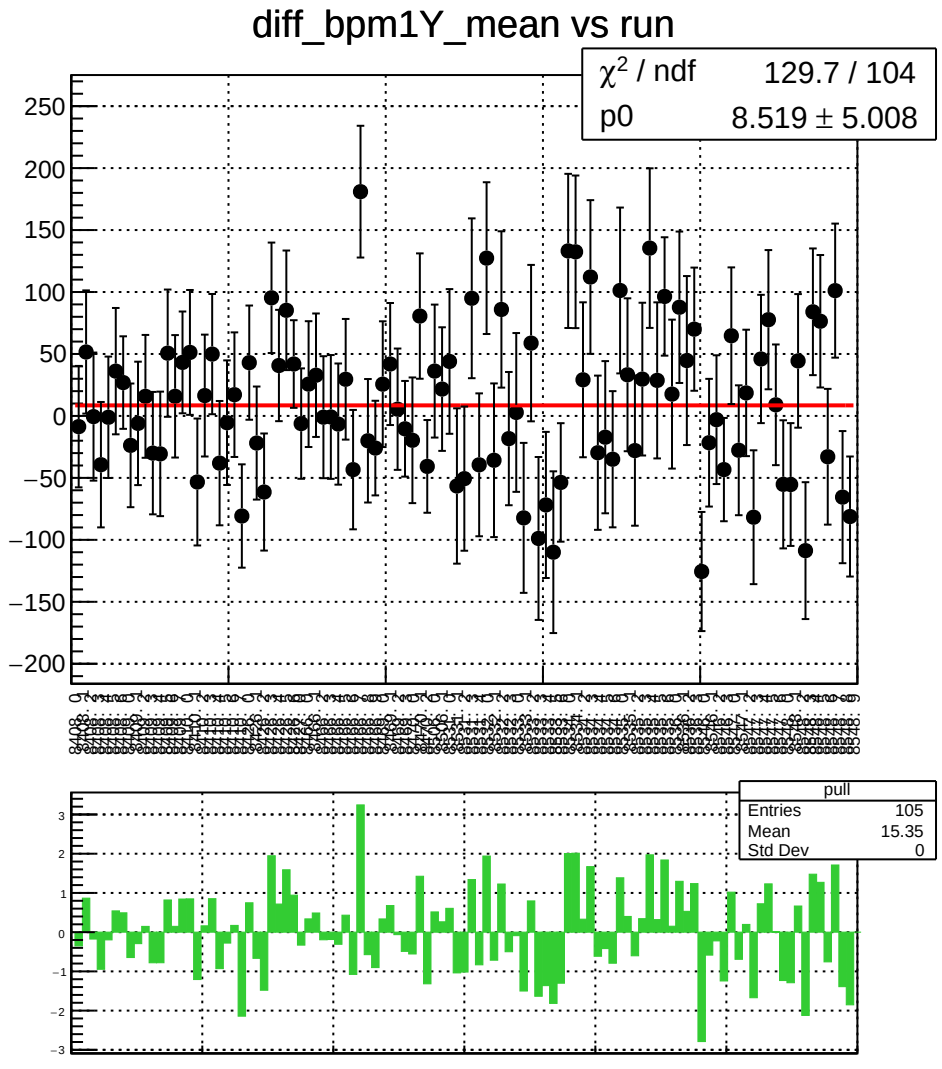

pull1D
Entries 105
Mean 0.01944
Std Dev 1.045
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

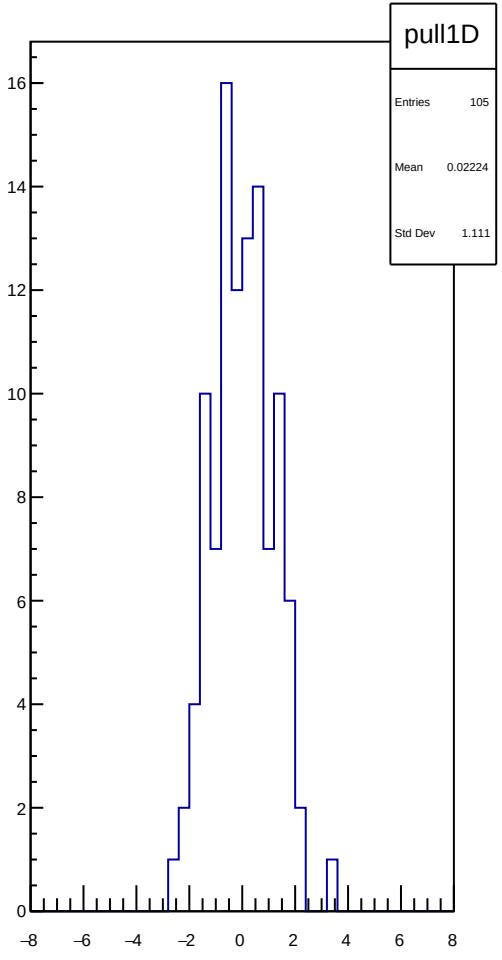

diff_bpm4ecY_rms vs run
χ² / ndf 5893 / 104
p0 6013 ± 4.209
7000
6500
6000
5500
5000

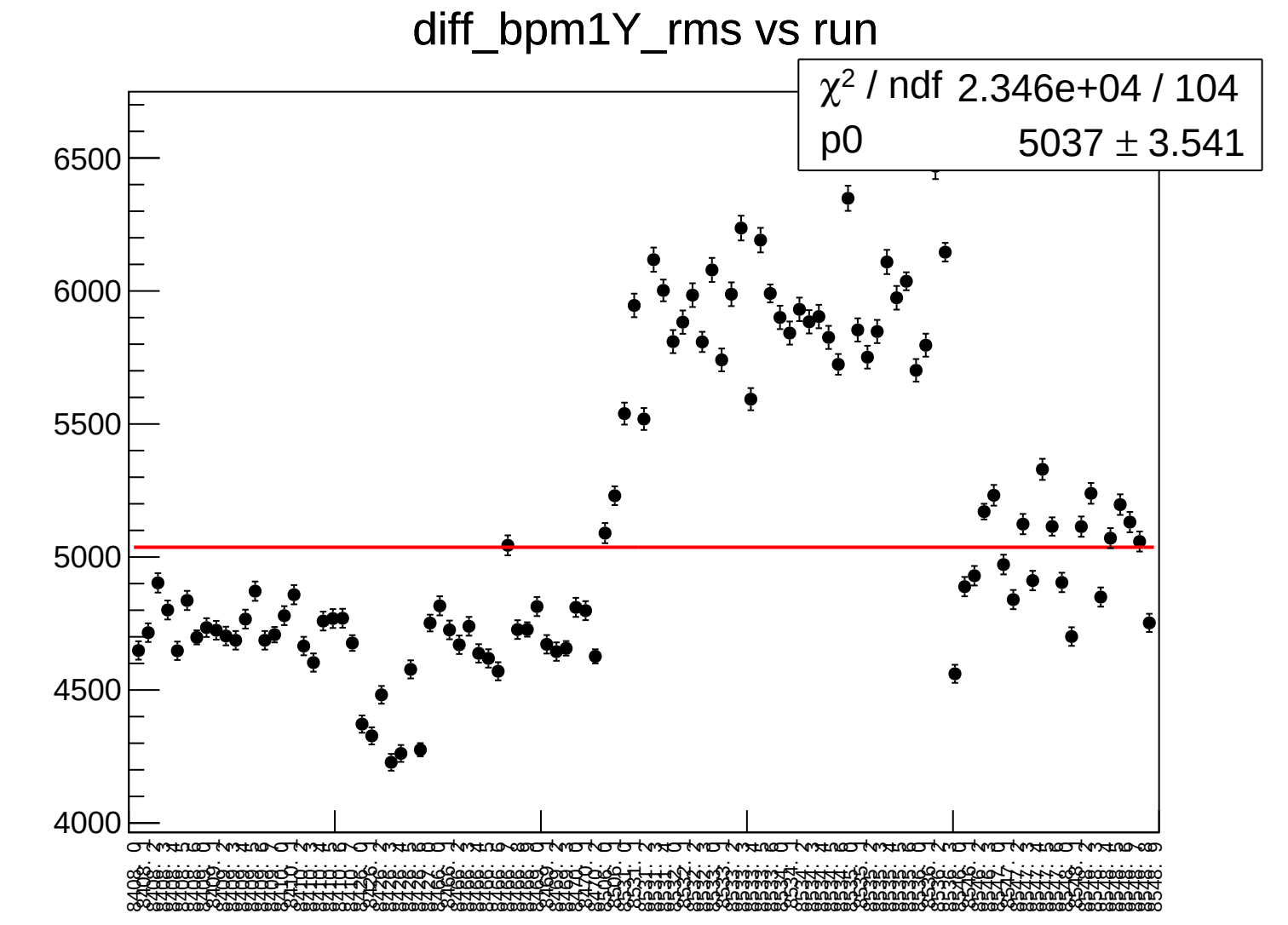

diff_bpm1X_mean vs run
χ² / ndf 111.9 / 104
p0 −70.02 ± 19.57
pull
Entries 105
Mean 1.326e+04
Std Dev 0

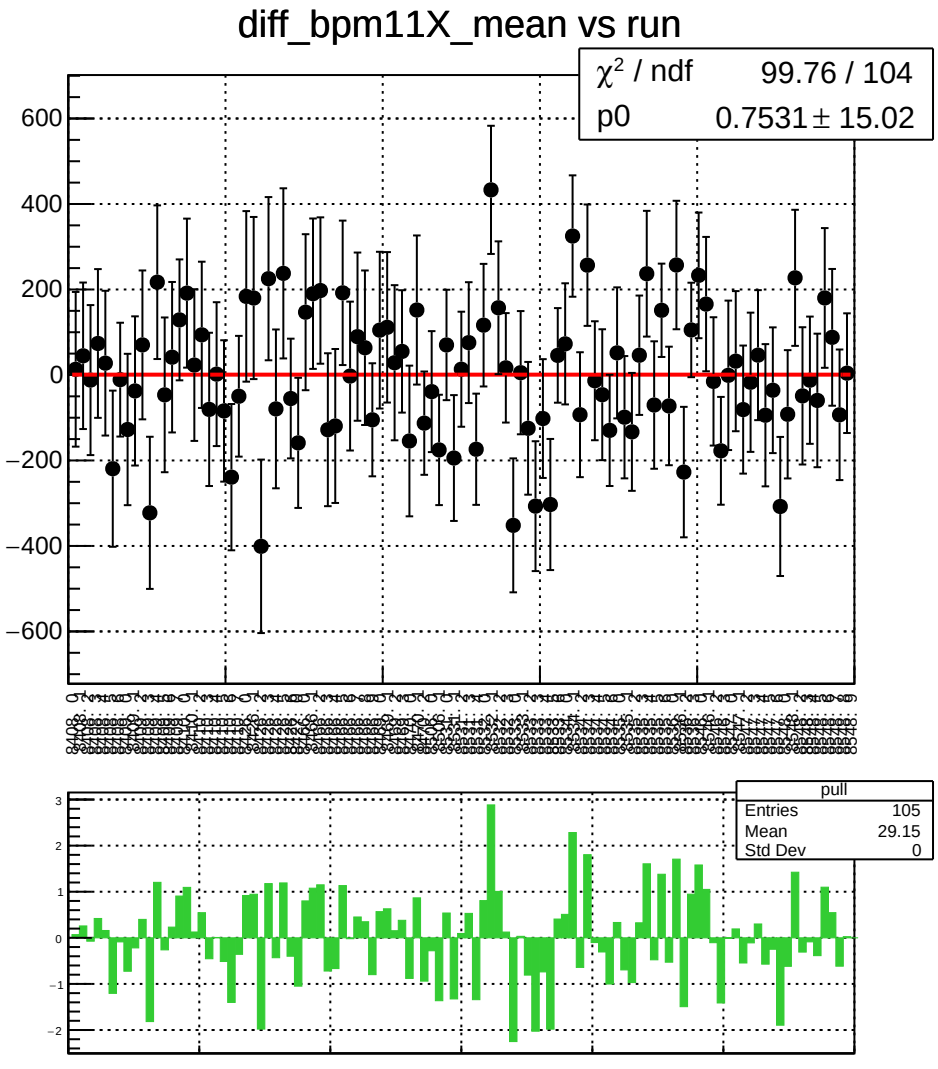

pull1D
Entries 105
Mean −0.0001295
Std Dev 1.032

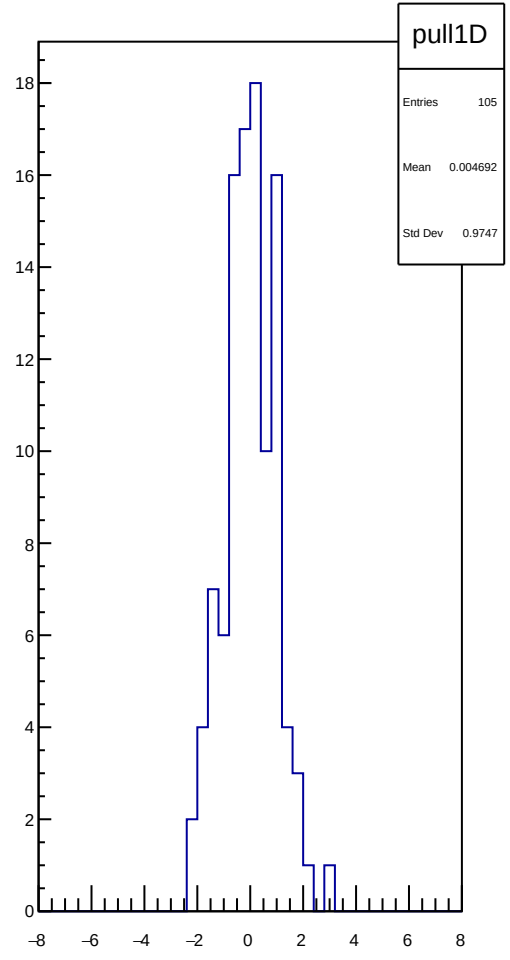

diff_bpm1X_rms vs run
χ² / ndf 2.38e+04 / 104
p0 1.968e+04 ± 13.84
26000
24000
22000
20000
18000
16000

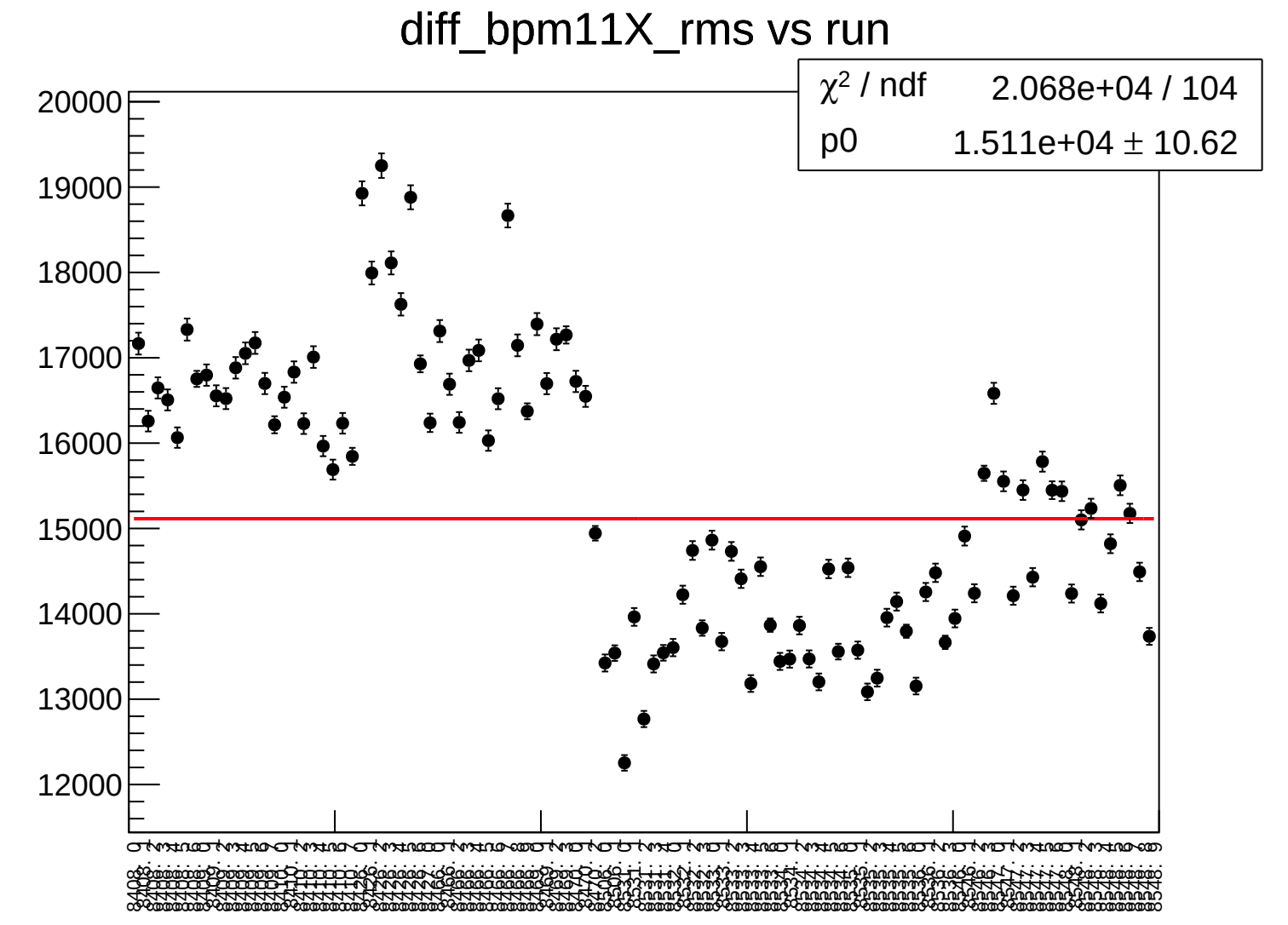

diff_bpm1Y_mean vs run
χ^2 / ndf 129.7 / 104
p0 8.519 ± 5.008
pull
Entries 105
Mean 15.35
Std Dev 0

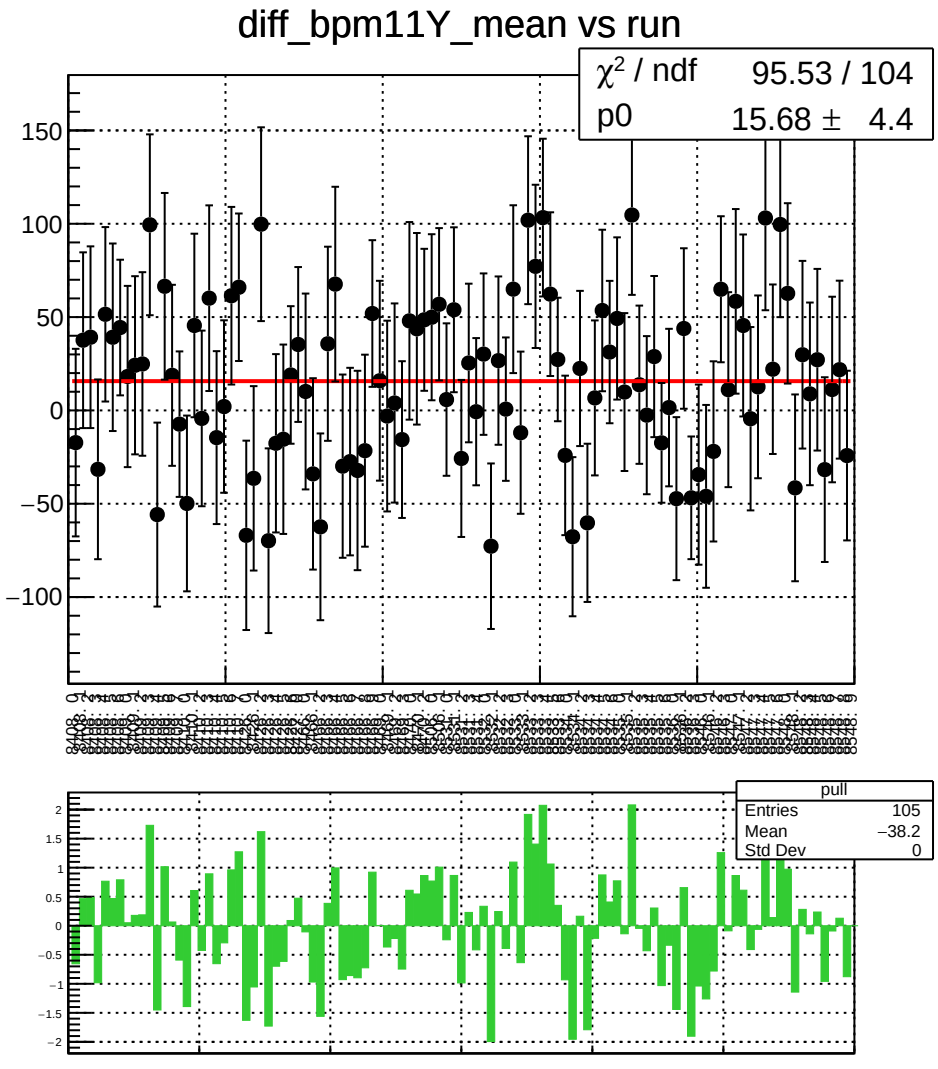

pull1D
Entries 105
Mean 0.02224
Std Dev 1.111

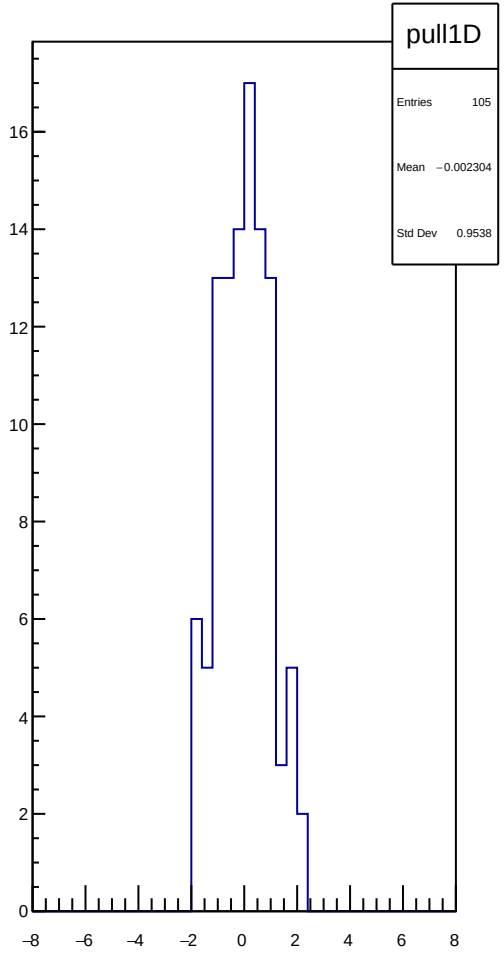

diff_bpm1Y_rms vs run
χ² / ndf 2.346e+04 / 104
p0 5037 ± 3.541
6500
6000
5500
5000
4500
4000

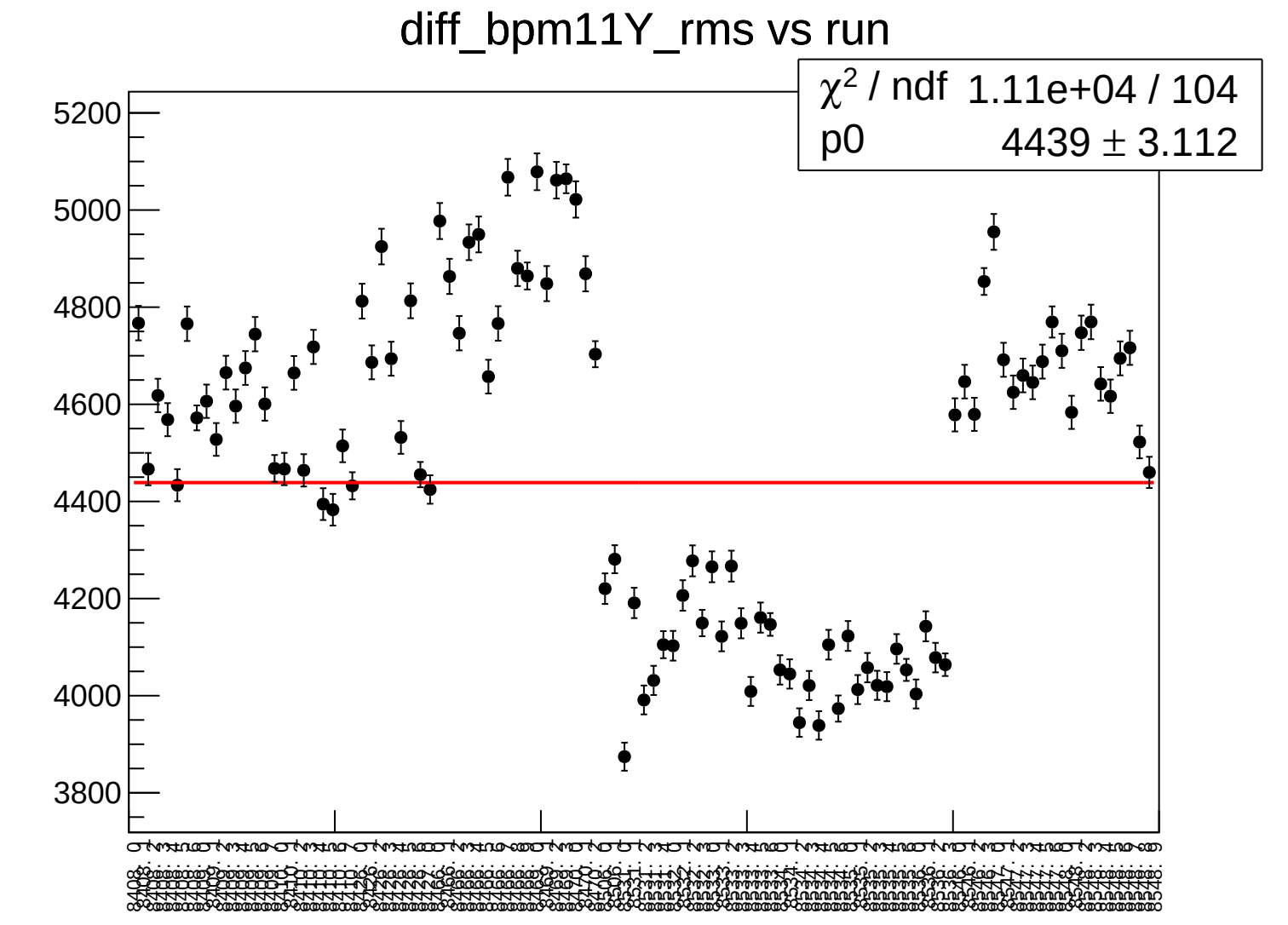

diff_bpm11X_mean vs run
χ² / ndf 99.76 / 104
p0 0.7531 ± 15.02
pull
Entries 105
Mean 29.15
Std Dev 0

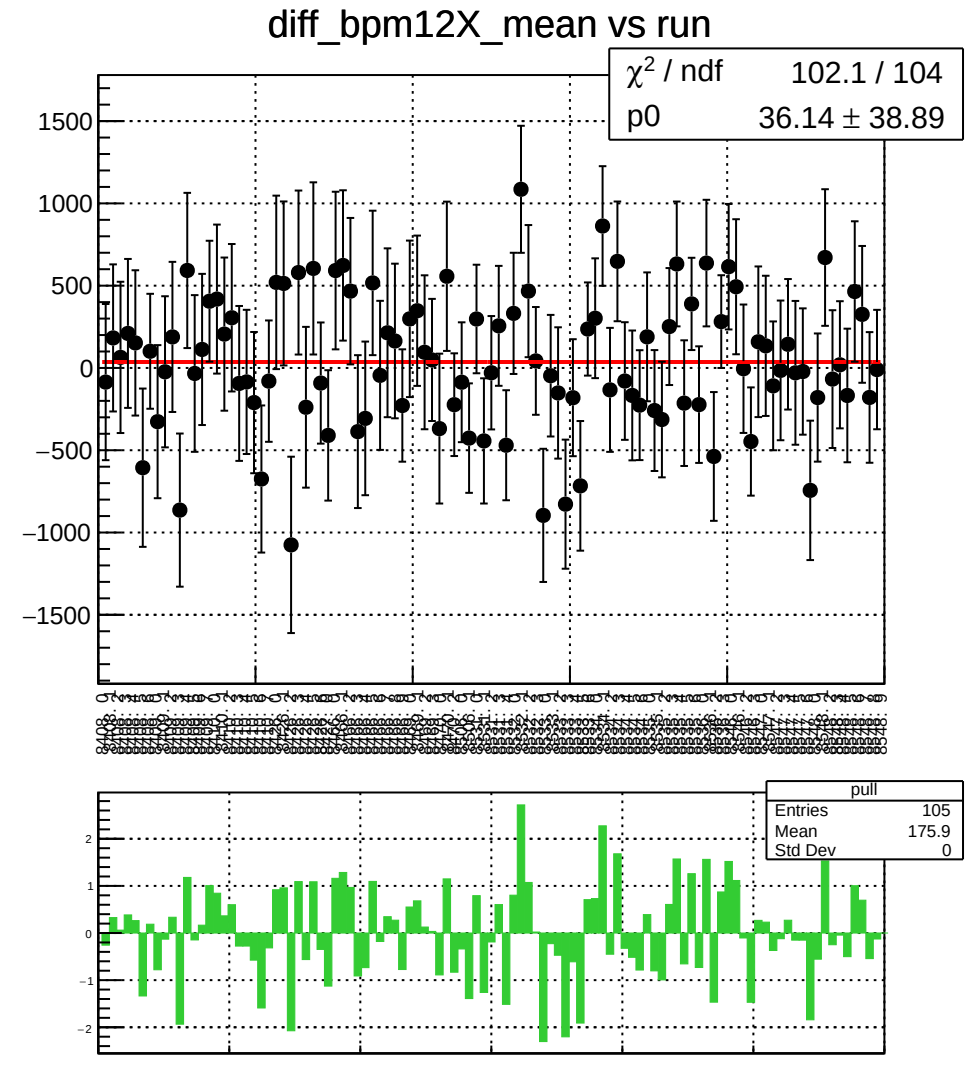

pull1D
Entries 105
Mean 0.004692
Std Dev 0.9747

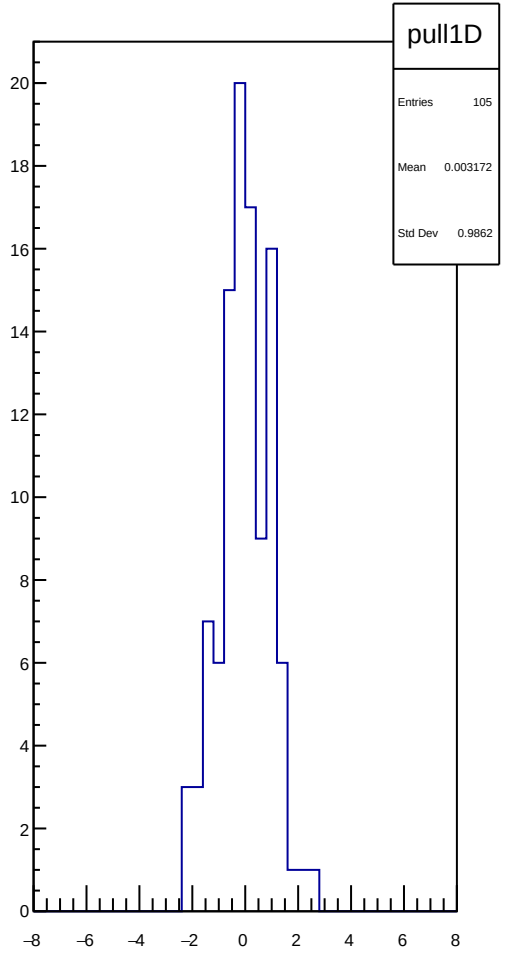

diff_bpm11X_rms vs run
χ² / ndf 2.068e+04 / 104
p0 1.511e+04 ± 10.62
20000
19000
18000
17000
16000
15000
14000
13000
12000

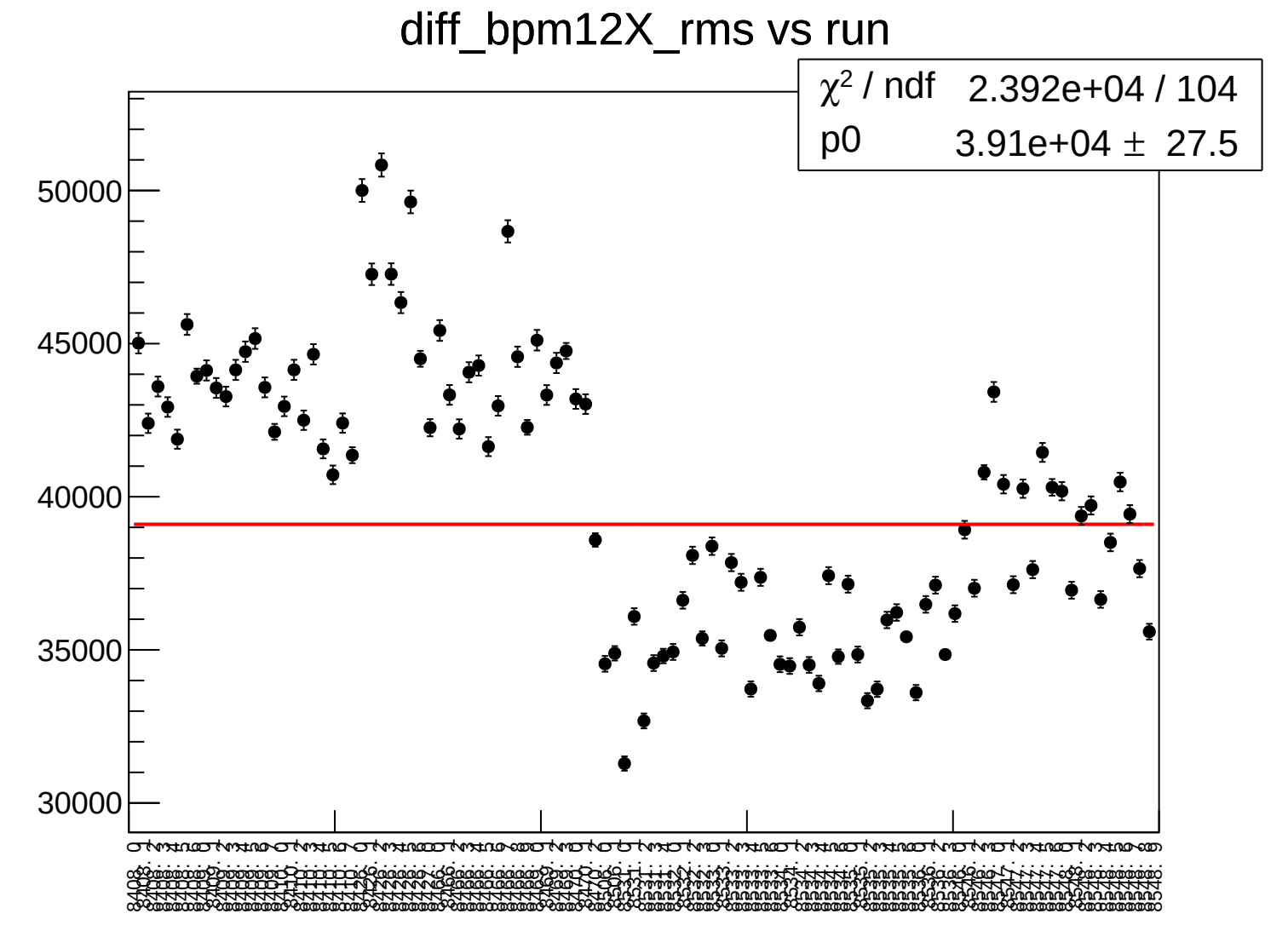

diff_bpm11Y_mean vs run
χ² / ndf 95.53 / 104
p0 15.68 ± 4.4
150
100
50
0
−50
−100
pull
Entries 105
Mean −38.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

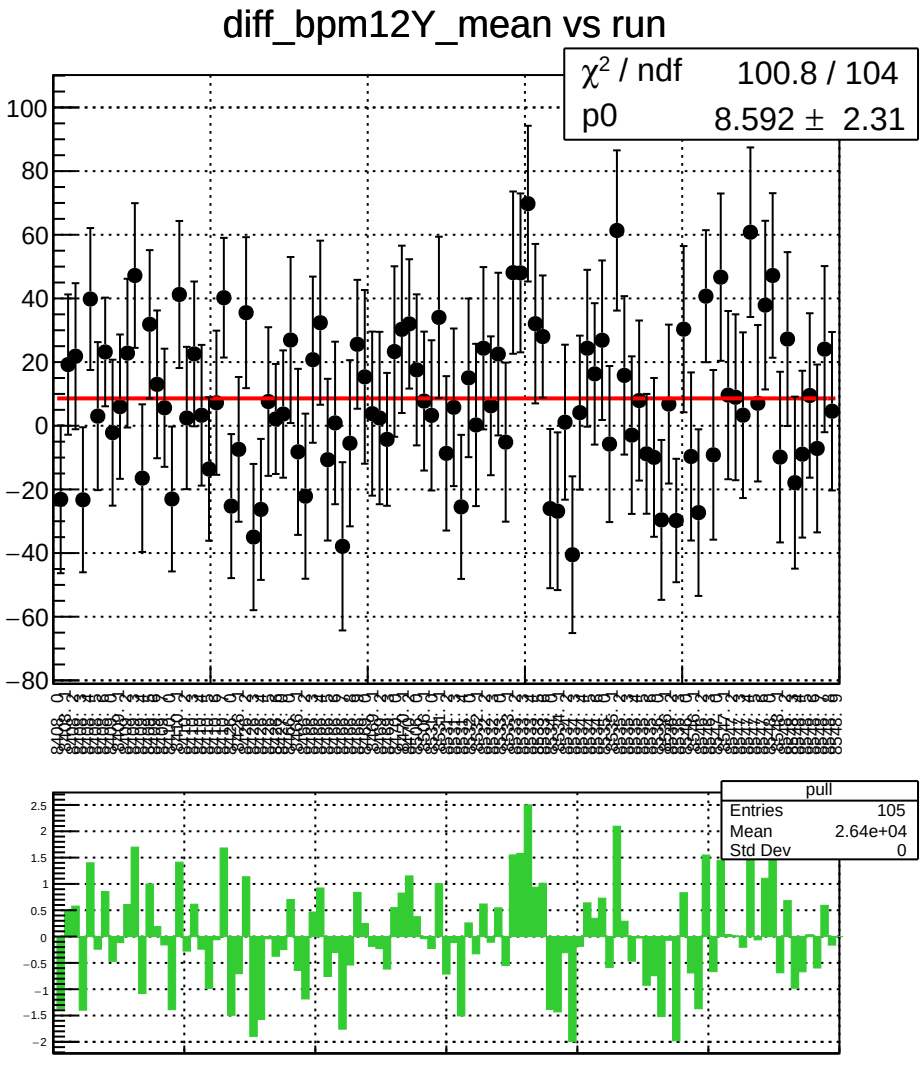

pull1D
Entries 105
Mean −0.002304
Std Dev 0.9538
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

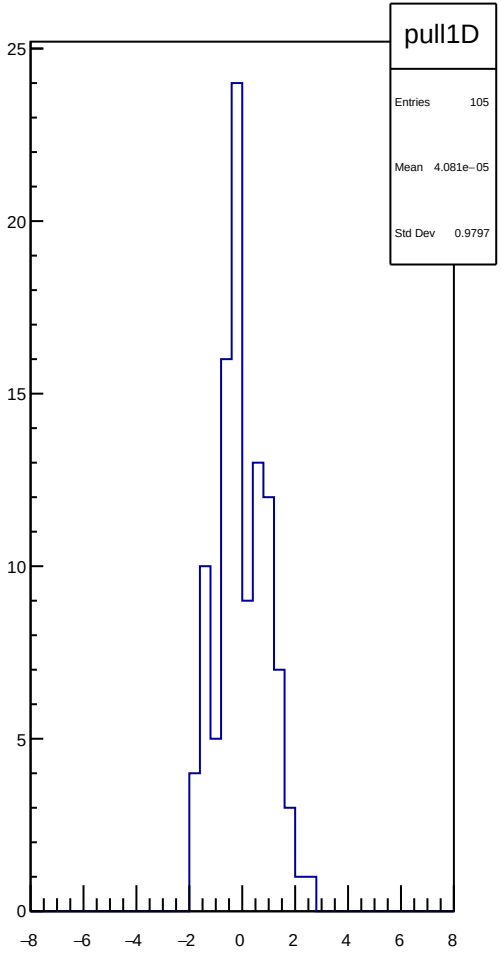

diff_bpm11Y_rms vs run
χ^2 / ndf 1.11e+04 / 104
p0 4439 ± 3.112
5200
5000
4800
4600
4400
4200
4000
3800

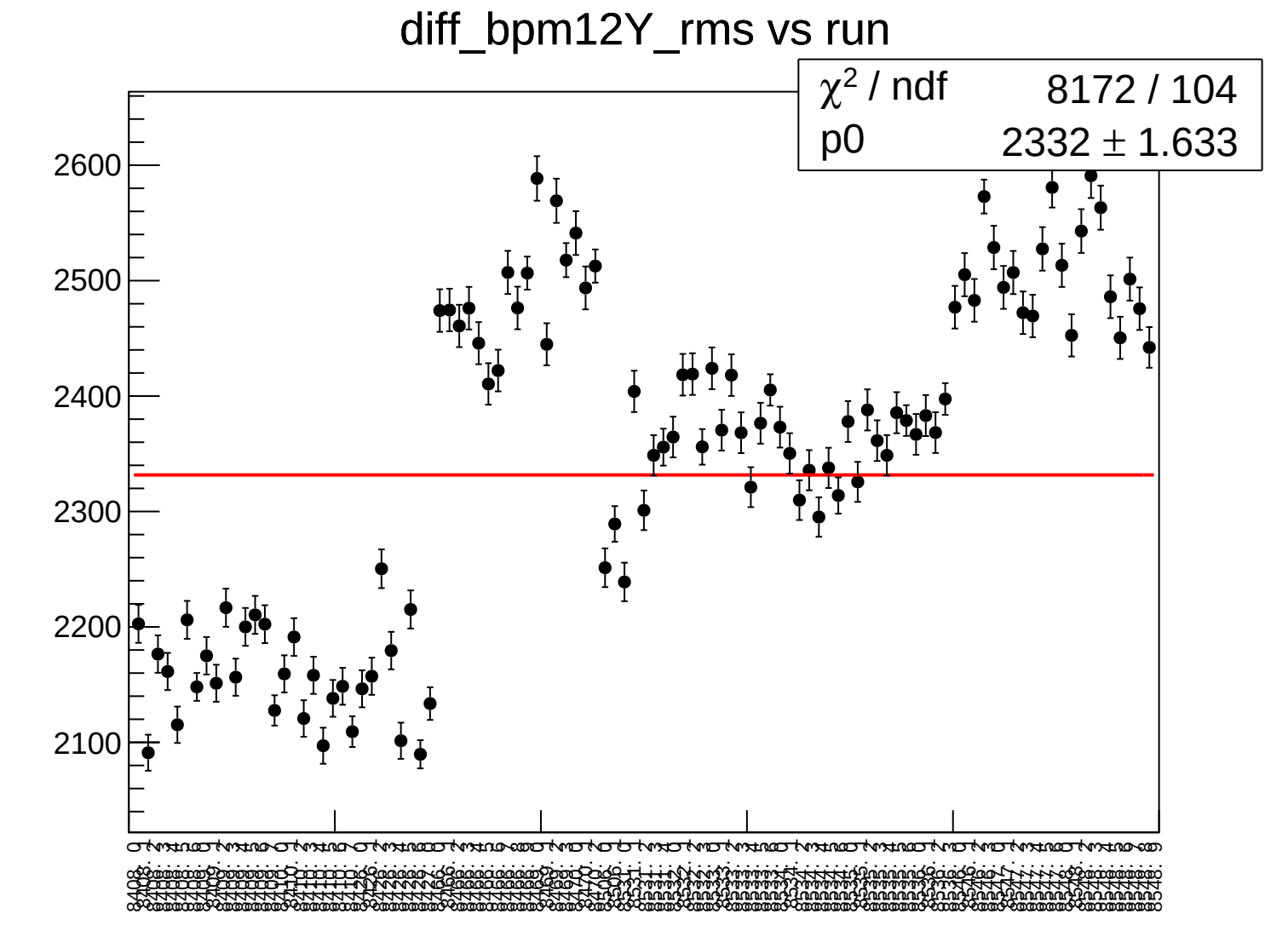

diff_bpm12X_mean vs run
χ² / ndf 102.1 / 104
p0 36.14 ± 38.89
1500
1000
500
0
−500
−1000
−1500
pull
Entries 105
Mean 175.9
Std Dev 0
2
1
0
−1
−2

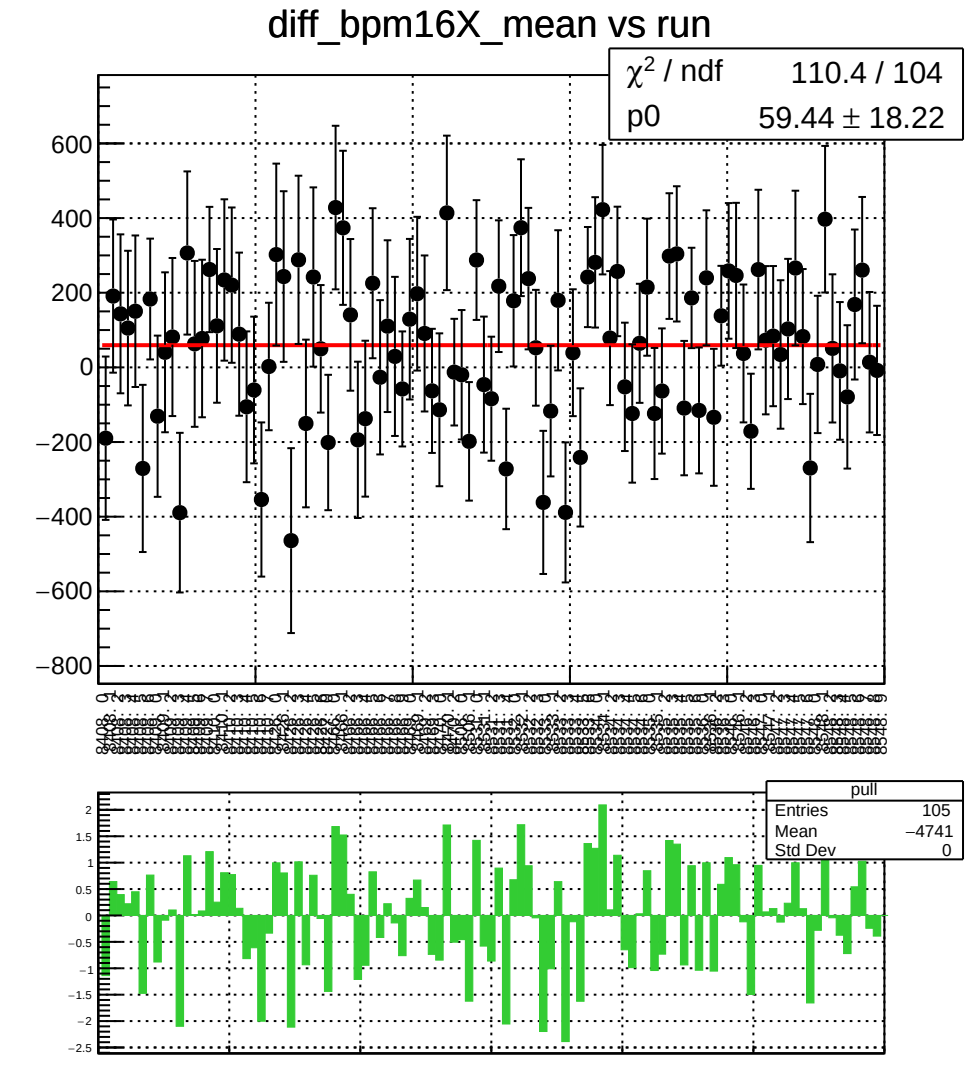

pull1D
Entries 105
Mean 0.003172
Std Dev 0.9862
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

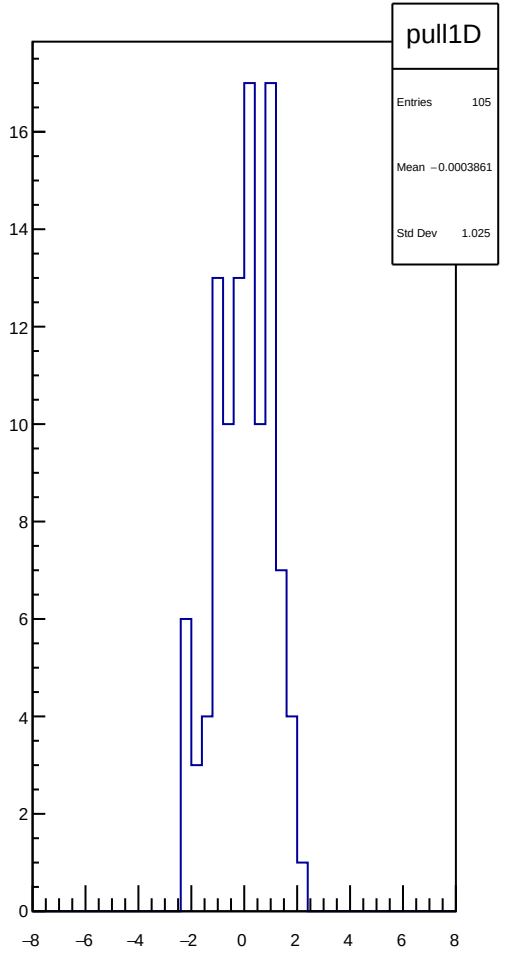

diff_bpm12X_rms vs run
χ² / ndf 2.392e+04 / 104
p0 3.91e+04 ± 27.5
50000
45000
40000
35000
30000

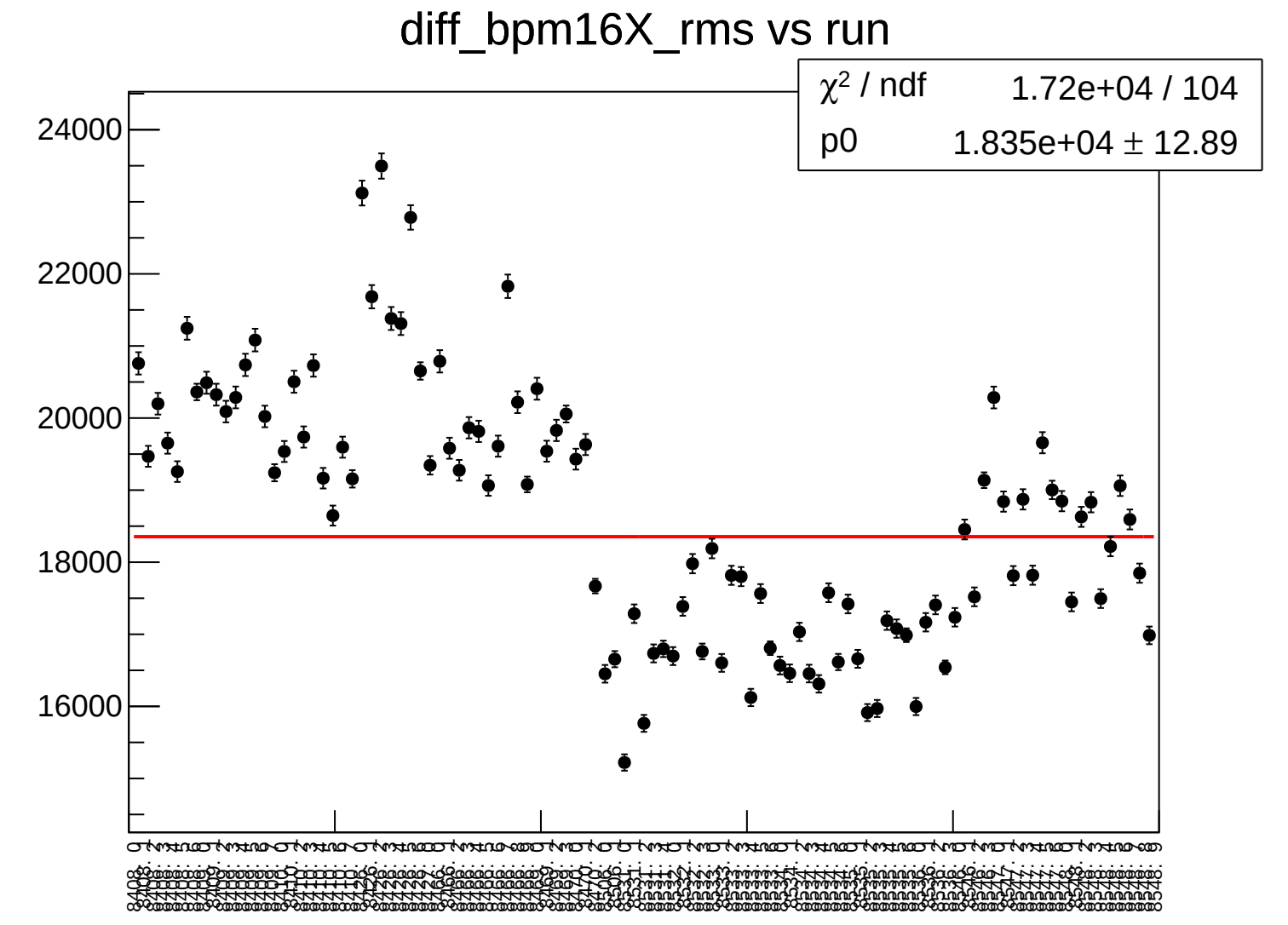

diff_bpm12Y_mean vs run
χ² / ndf 100.8 / 104
p0 8.592 ± 2.31
pull
Entries 105
Mean 2.64e+04
Std Dev 0

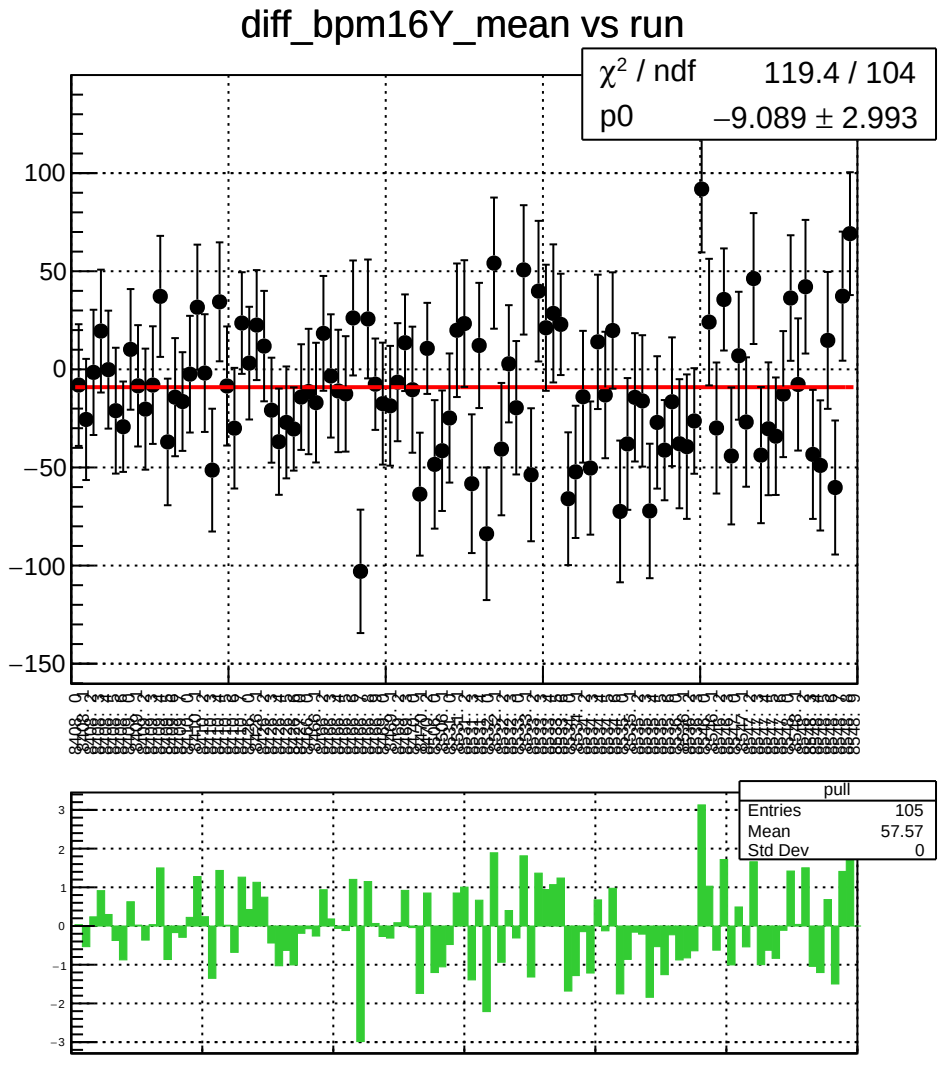

pull1D
Entries 105
Mean 4.081e−05
Std Dev 0.9797

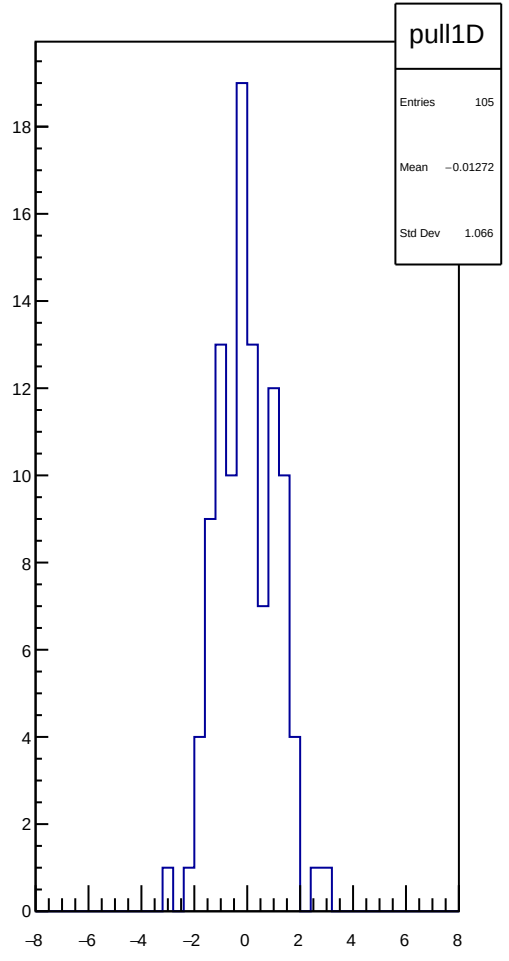

diff_bpm12Y_rms vs run
χ^2 / ndf 8172 / 104
p0 2332 ± 1.633
2600
2500
2400
2300
2200
2100

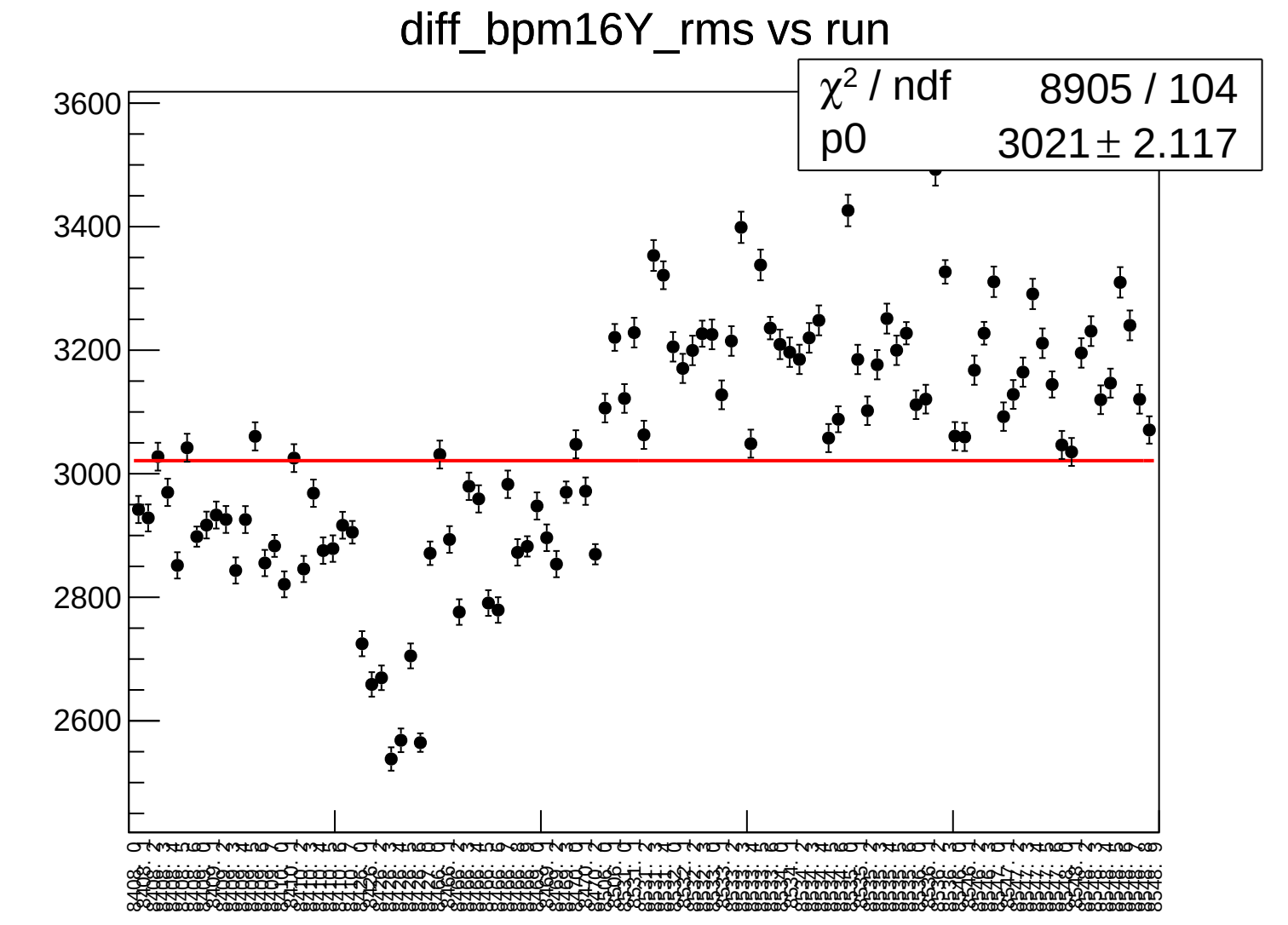

diff_bpm16X_mean vs run
χ² / ndf 110.4 / 104
p0 59.44 ± 18.22
600
400
200
0
−200
−400
−600
−800
pull
Entries 105
Mean −4741
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

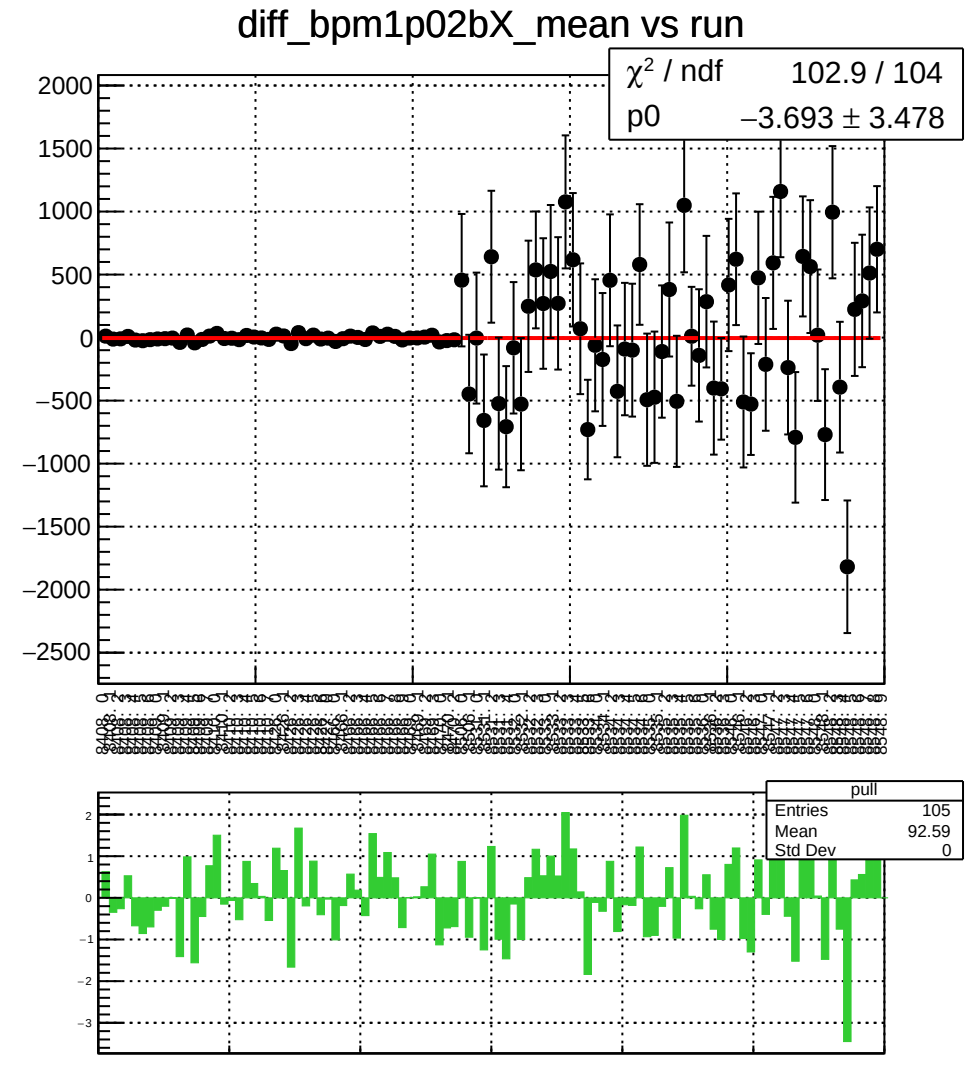

pull1D
Entries 105
Mean −0.0003861
Std Dev 1.025
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

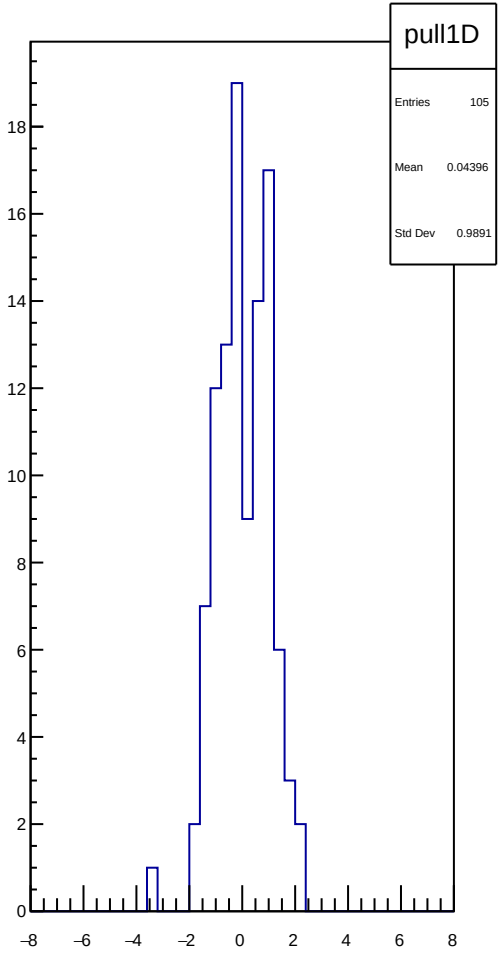

diff_bpm16X_rms vs run
χ² / ndf 1.72e+04 / 104
p0 1.835e+04 ± 12.89
24000
22000
20000
18000
16000

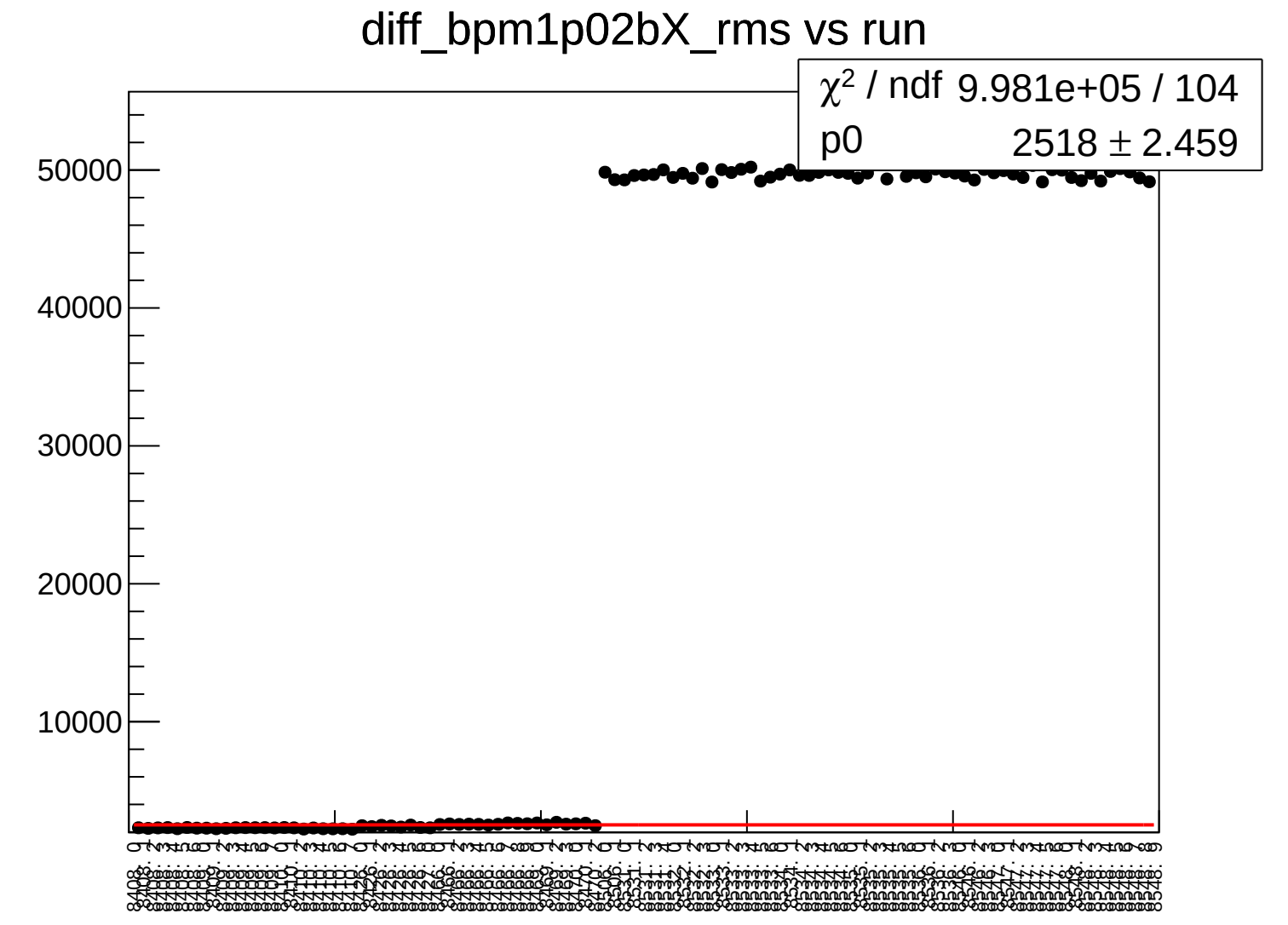

diff_bpm16Y_mean vs run
χ² / ndf 119.4 / 104
p0 −9.089 ± 2.993
100
50
0
−50
−100
−150
pull
Entries 105
Mean 57.57
Std Dev 0
3
2
1
0
−1
−2
−3

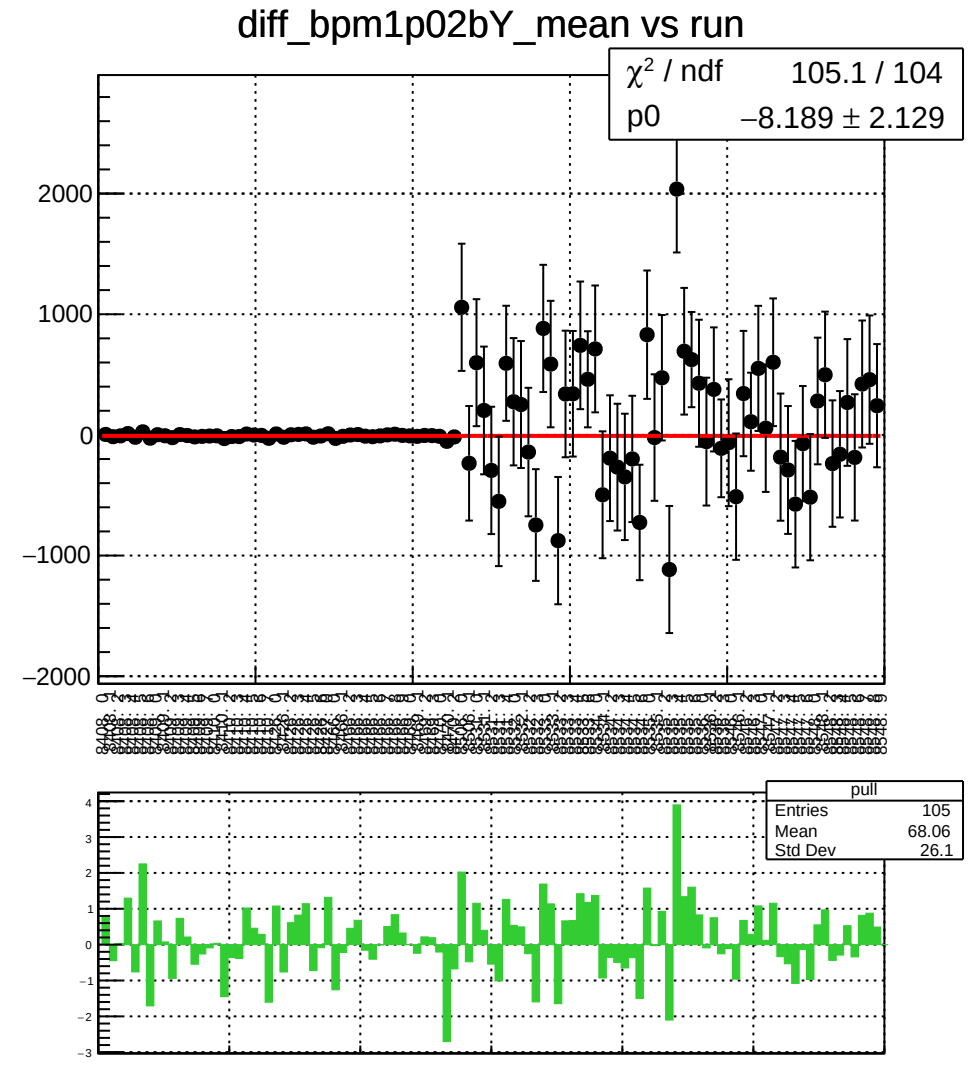

pull1D
Entries 105
Mean −0.01272
Std Dev 1.066
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

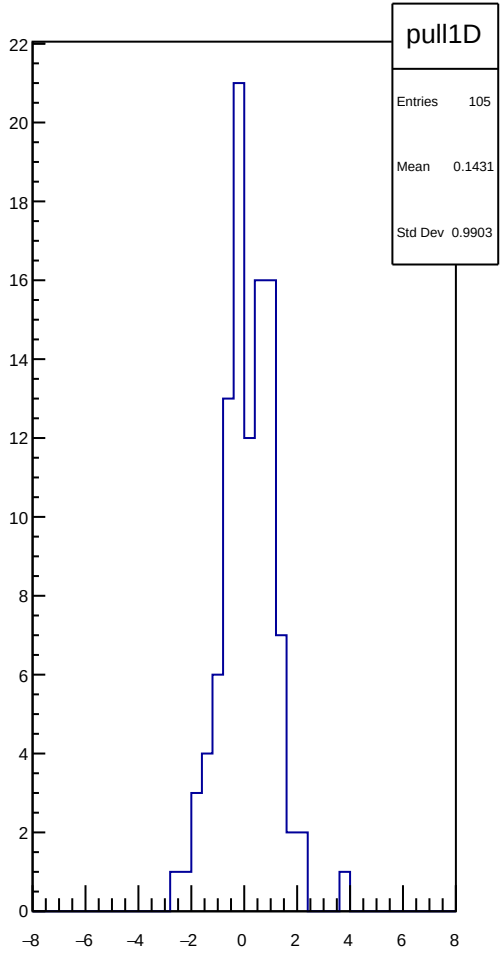

diff_bpm16Y_rms vs run
χ² / ndf 8905 / 104
p0 3021 ± 2.117
3600
3400
3200
3000
2800
2600

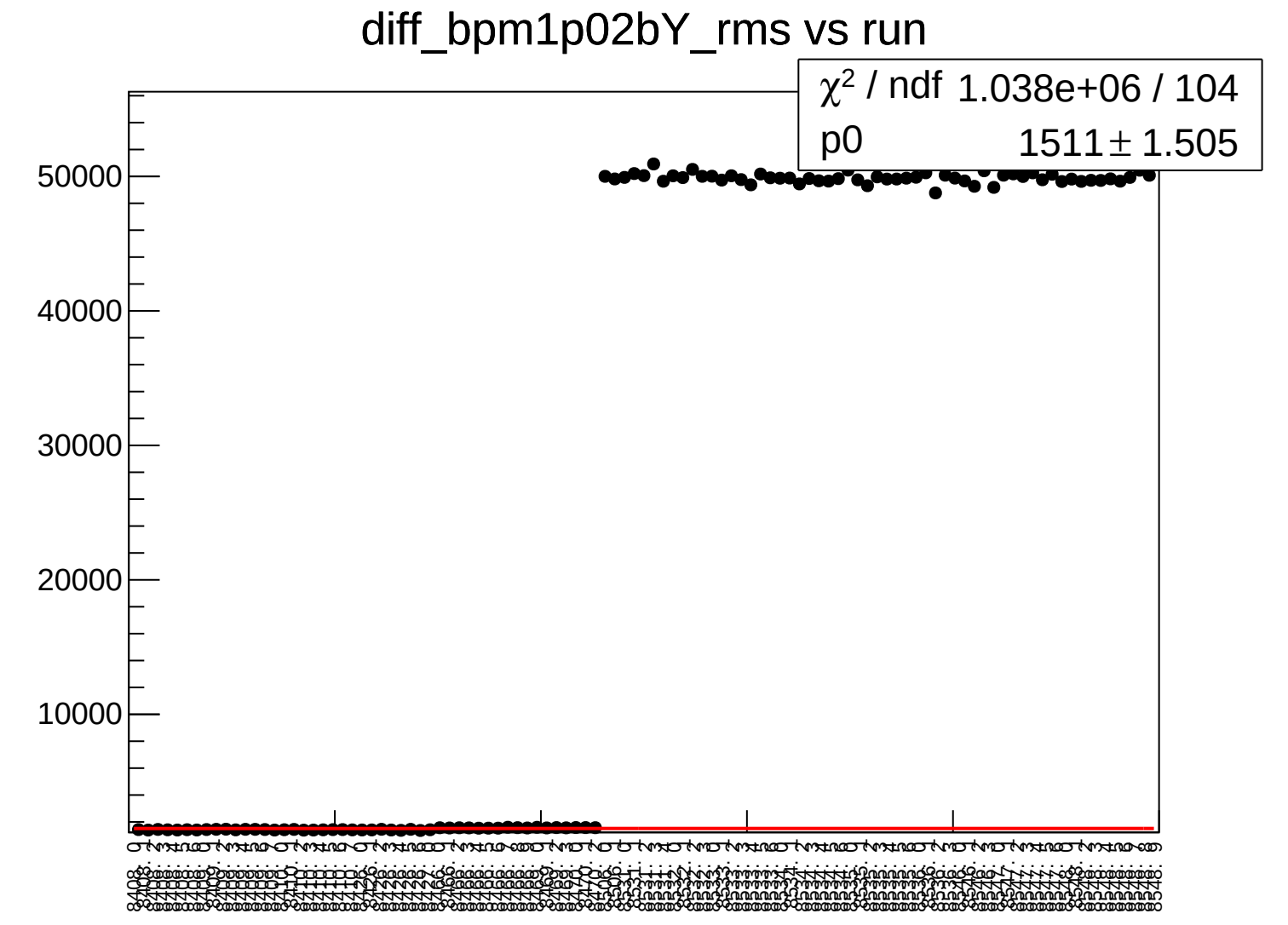

diff_bpm1p02bX_mean vs run
χ² / ndf 102.9 / 104
p0 −3.693 ± 3.478
pull
Entries 105
Mean 92.59
Std Dev 0

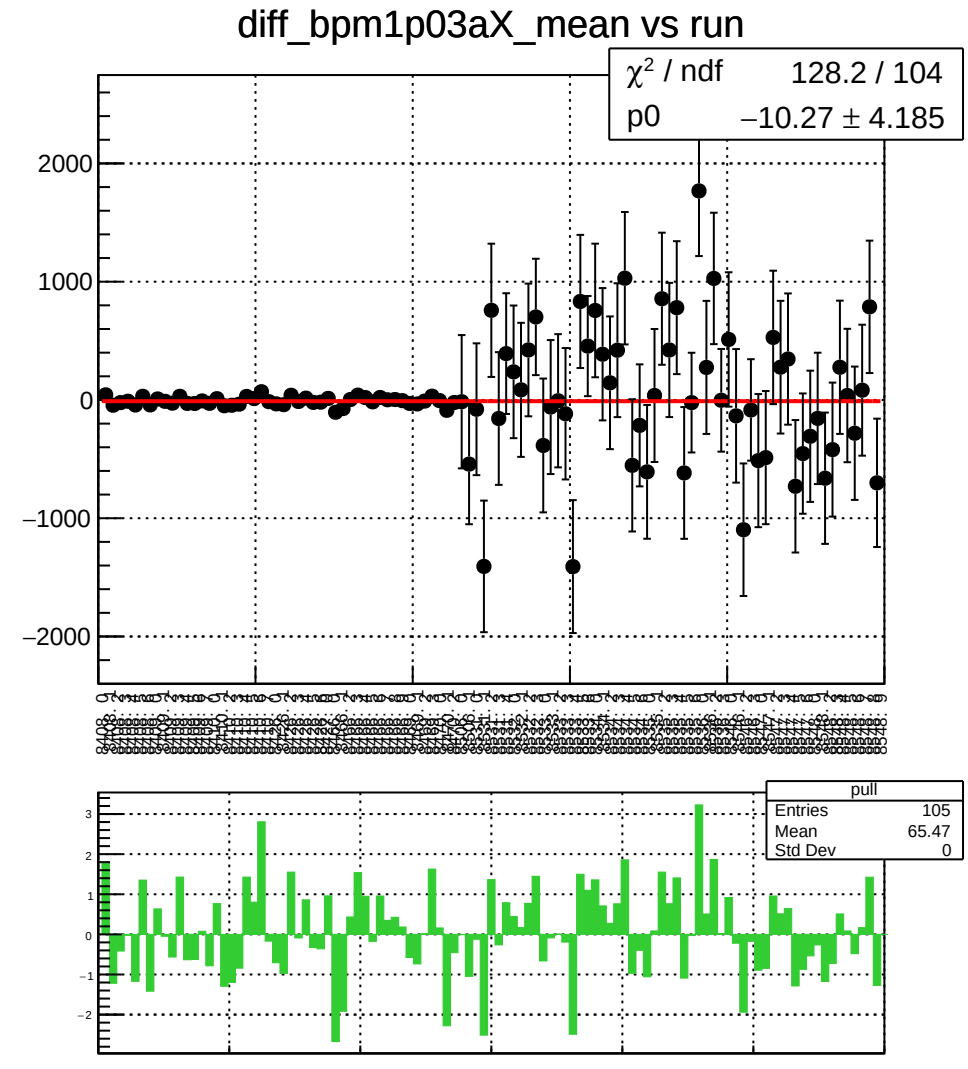

pull1D
Entries 105
Mean 0.04396
Std Dev 0.9891

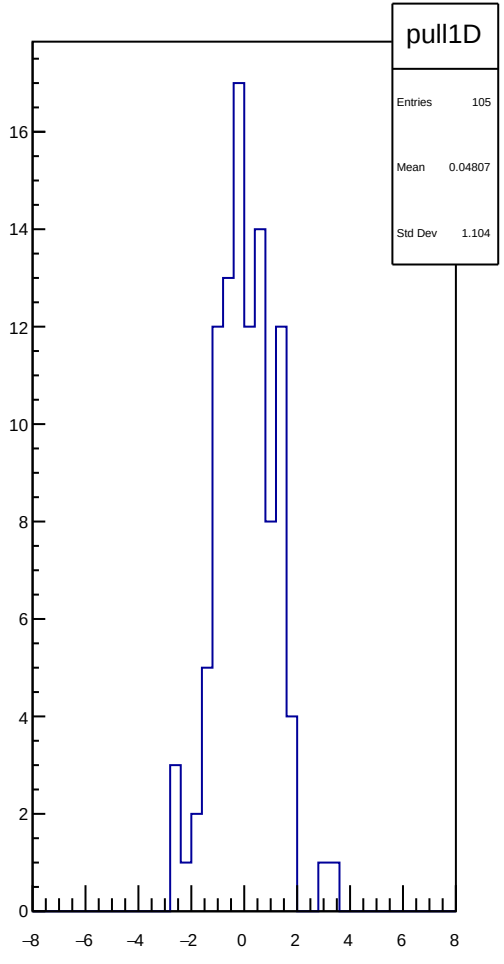

diff_bpm1p02bX_rms vs run
χ² / ndf 9.981e+05 / 104
p0 2518 ± 2.459
50000
40000
30000
20000
10000

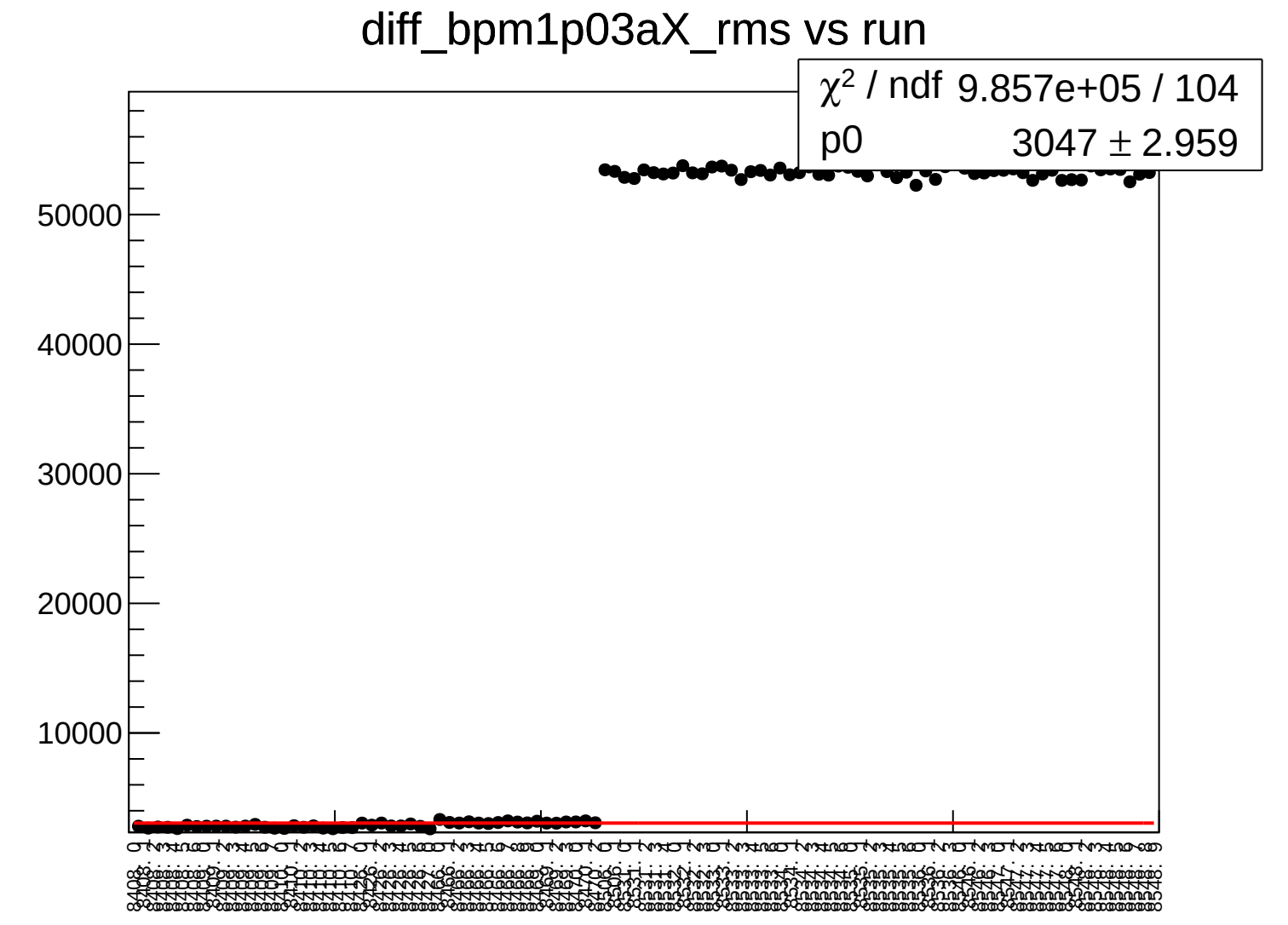

diff_bpm1p02bY_mean vs run
χ² / ndf 105.1 / 104
p0 −8.189 ± 2.129
2000
1000
0
−1000
−2000
pull
Entries 105
Mean 68.06
Std Dev 26.1
4
3
2
1
0
−1
−2
−3

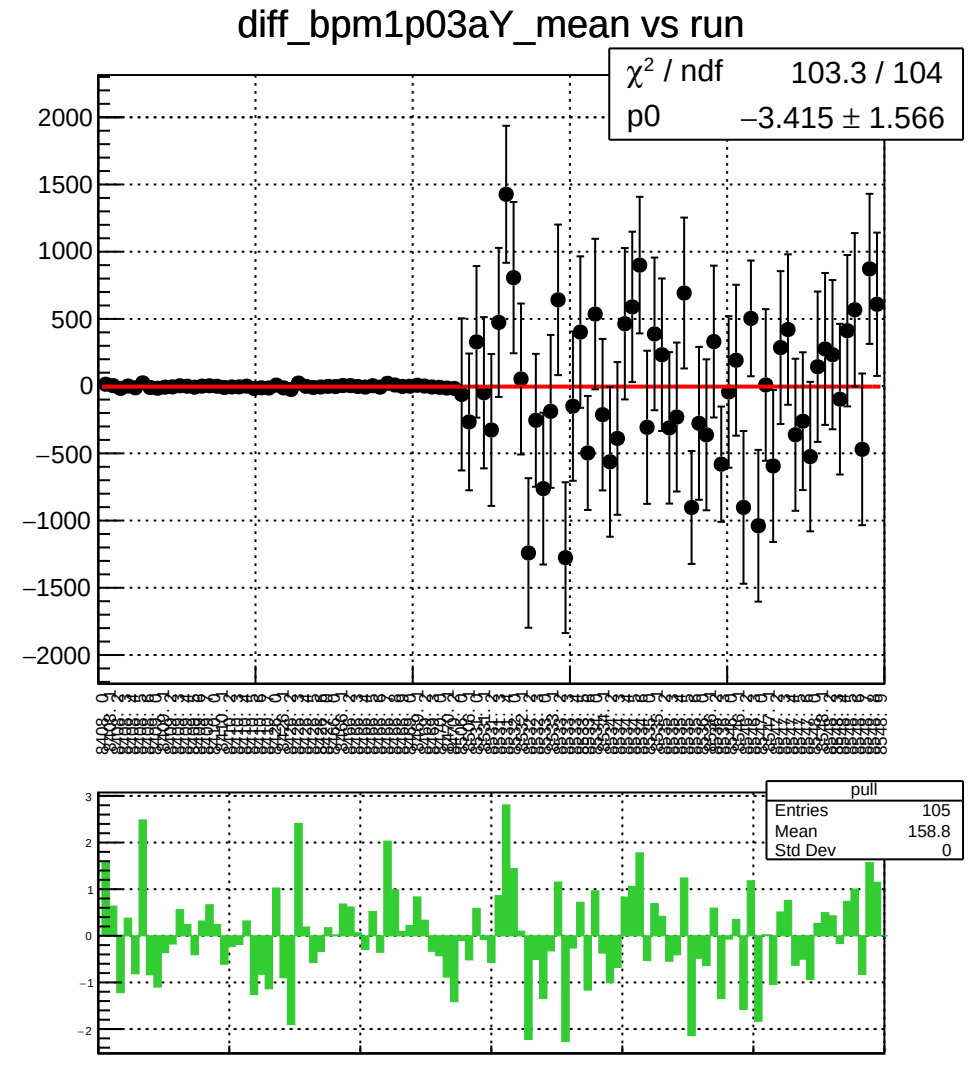

pull1D
Entries 105
Mean 0.1431
Std Dev 0.9903
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

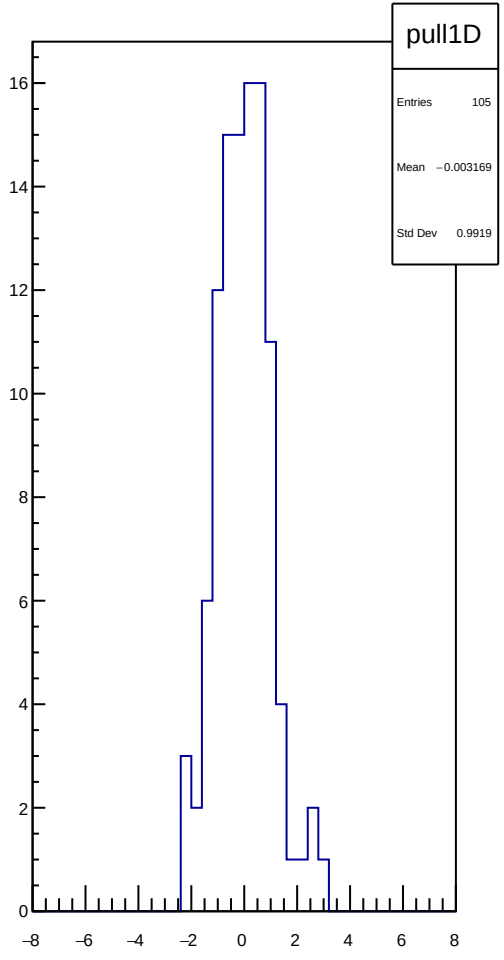

diff_bpm1p02bY_rms vs run
χ² / ndf 1.038e+06 / 104
p0 1511 ± 1.505
50000
40000
30000
20000
10000

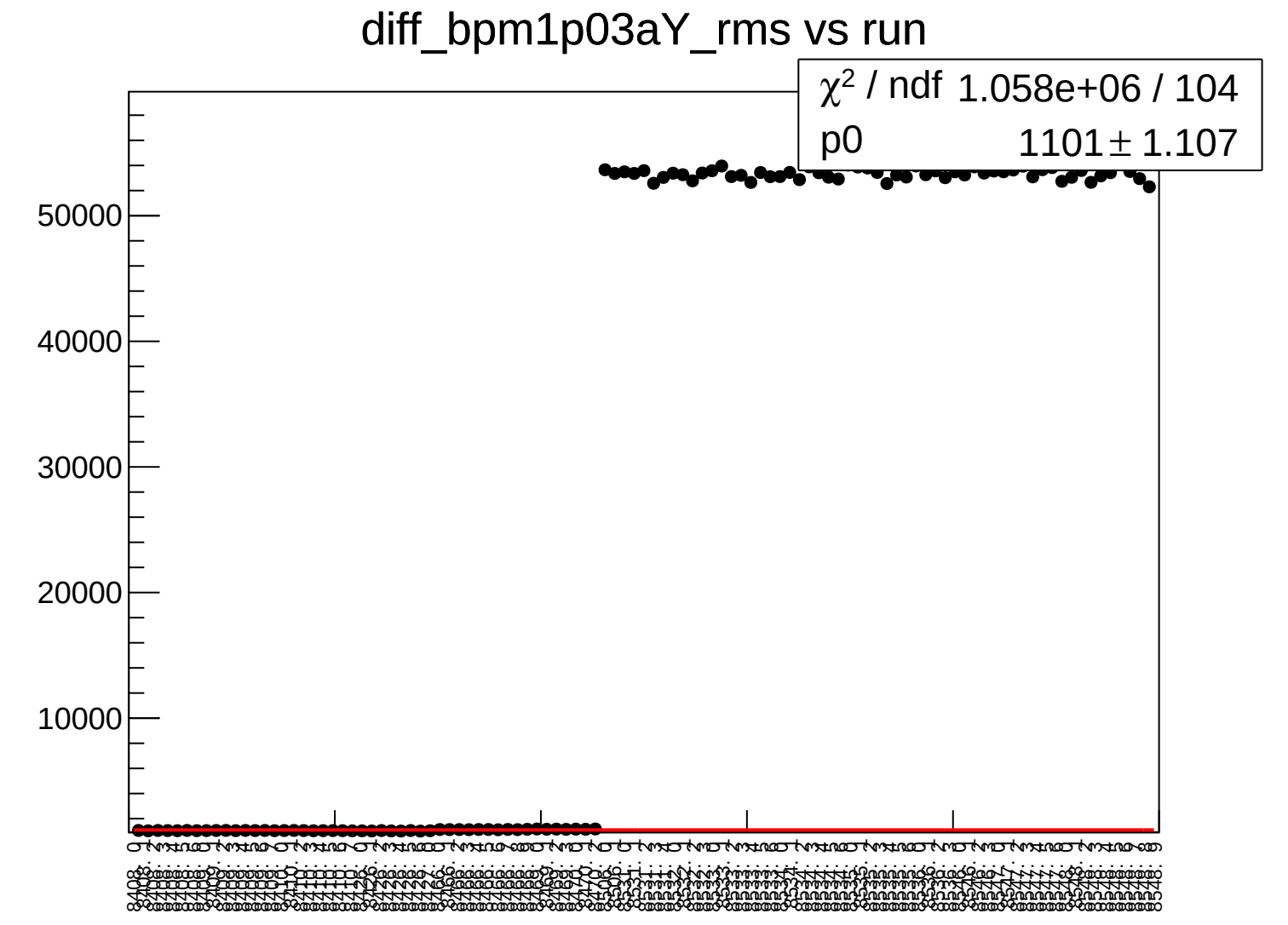

diff_bpm1p03aX_mean vs run
χ² / ndf 128.2 / 104
p0 −10.27 ± 4.185
2000
1000
0
−1000
−2000
pull
Entries 105
Mean 65.47
Std Dev 0
3
2
1
0
−1
−2

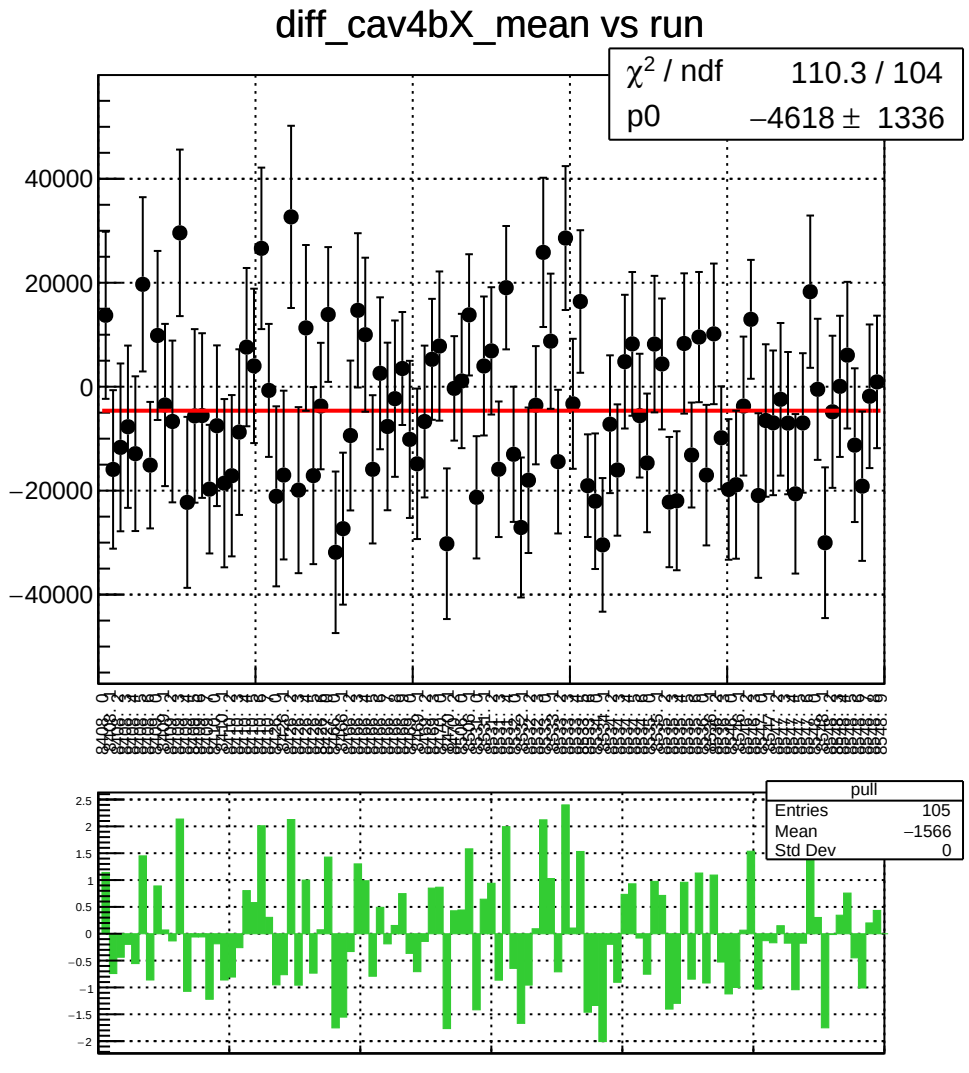

pull1D
Entries 105
Mean 0.04807
Std Dev 1.104
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

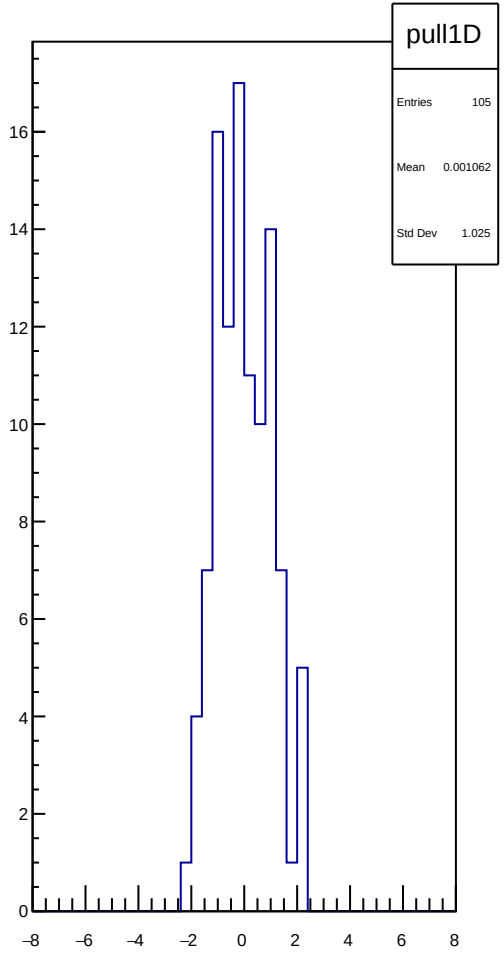

diff_bpm1p03aX_rms vs run
χ² / ndf 9.857e+05 / 104
p0 3047 ± 2.959
50000
40000
30000
20000
10000

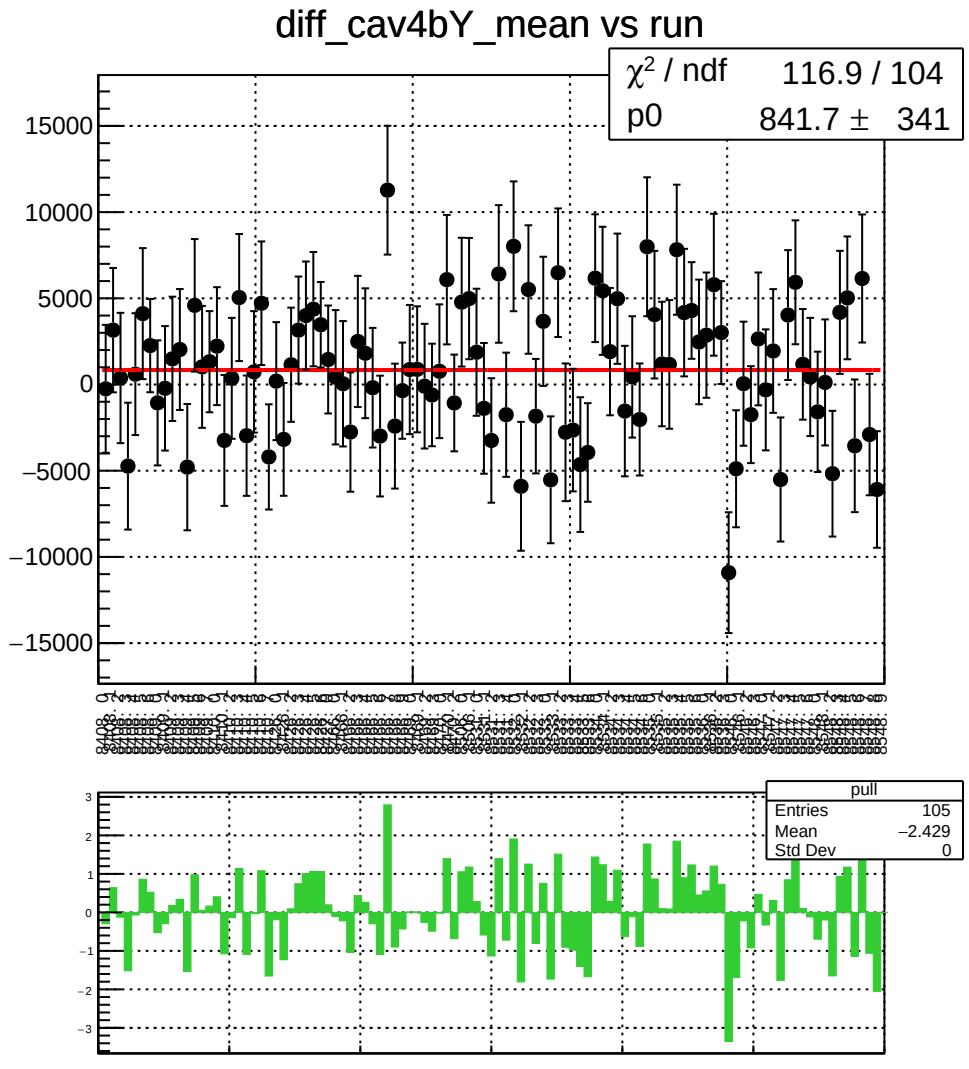

diff_bpm1p03aY_mean vs run
χ² / ndf 103.3 / 104
p0 −3.415 ± 1.566
2000
1500
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 105
Mean 158.8
Std Dev 0
3
2
1
0
−1
−2

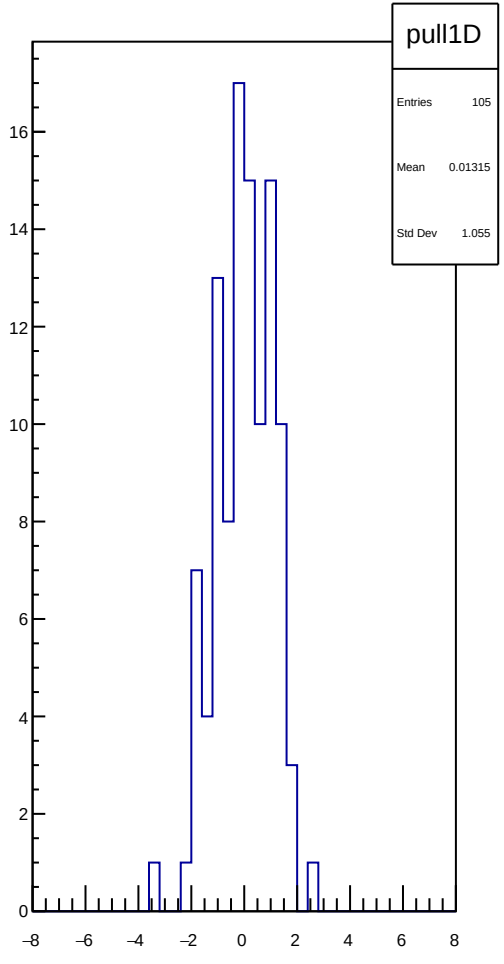

pull1D
Entries 105
Mean −0.003169
Std Dev 0.9919
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

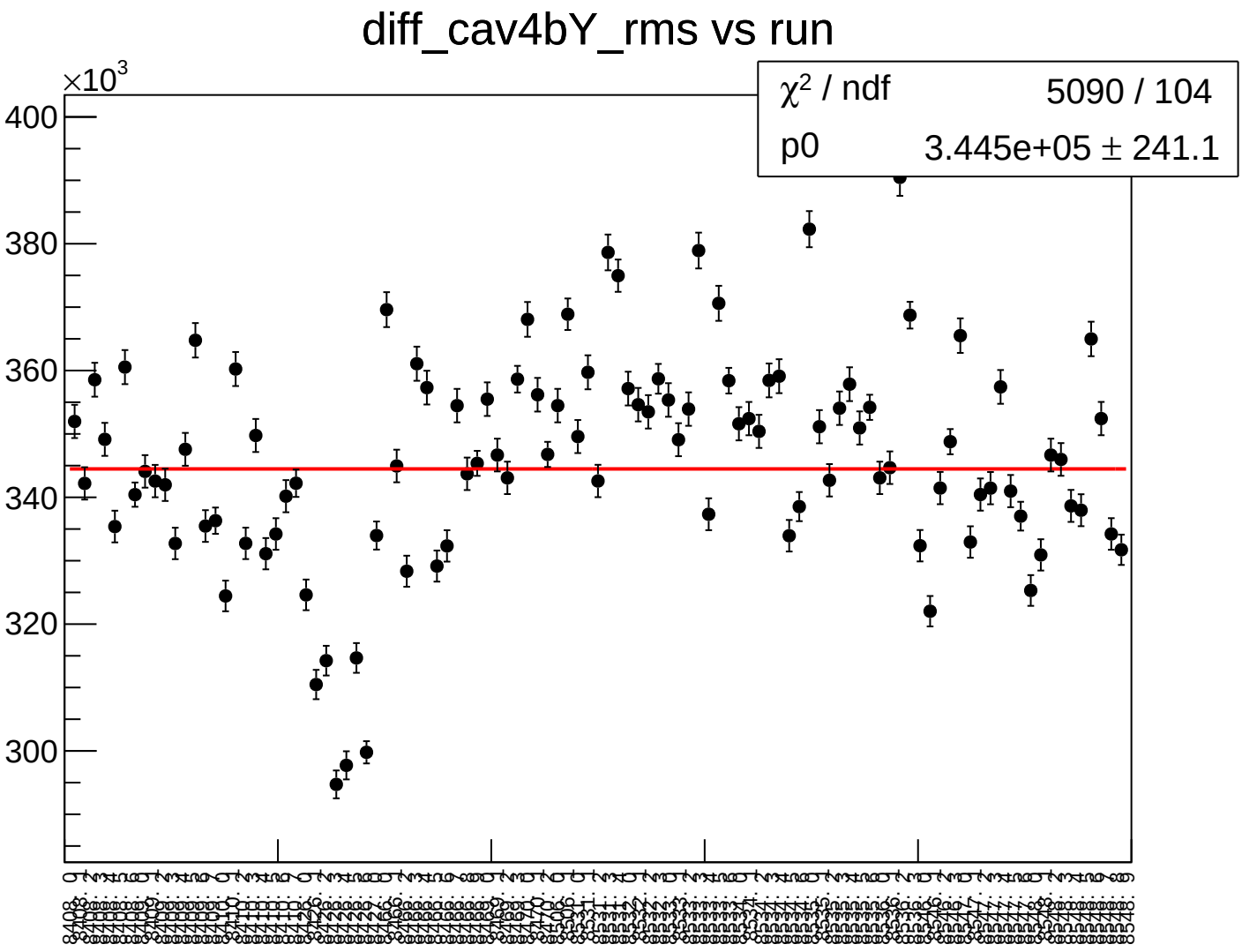

diff_bpm1p03aY_rms vs run
χ² / ndf 1.058e+06 / 104
p0 1101 ± 1.107
50000
40000
30000
20000
10000

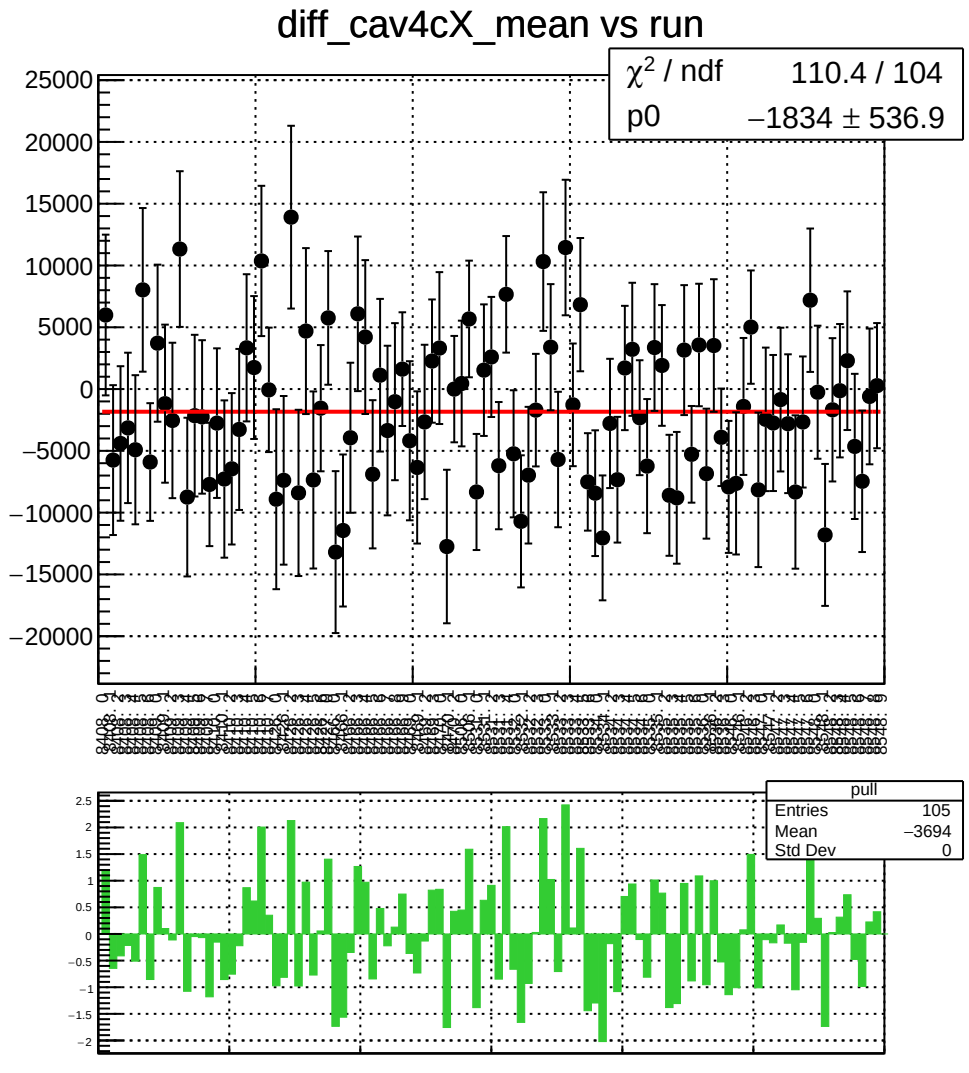

diff_cav4bX_mean vs run
χ^2 / ndf 110.3 / 104
p0 −4618 ± 1336
40000
20000
0
−20000
−40000
pull
Entries 105
Mean −1566
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

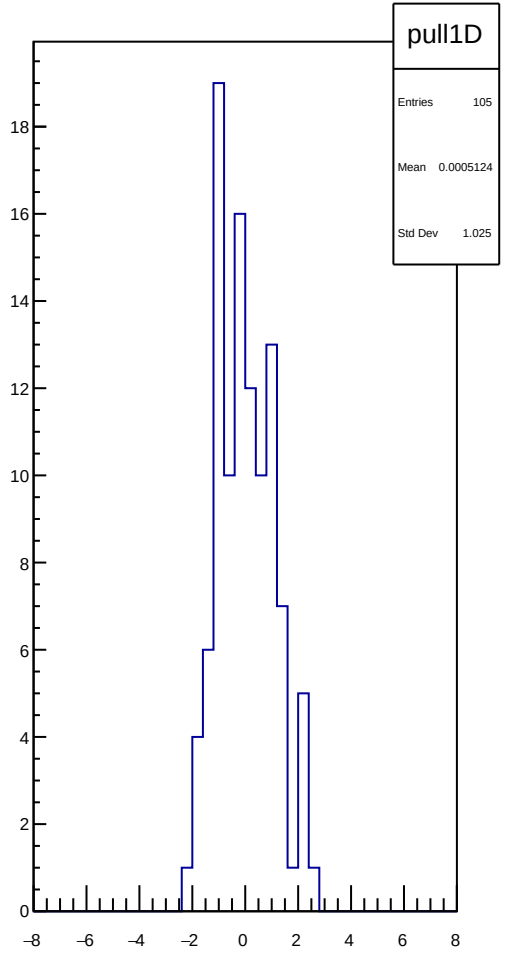

pull1D
Entries 105
Mean 0.001062
Std Dev 1.025
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

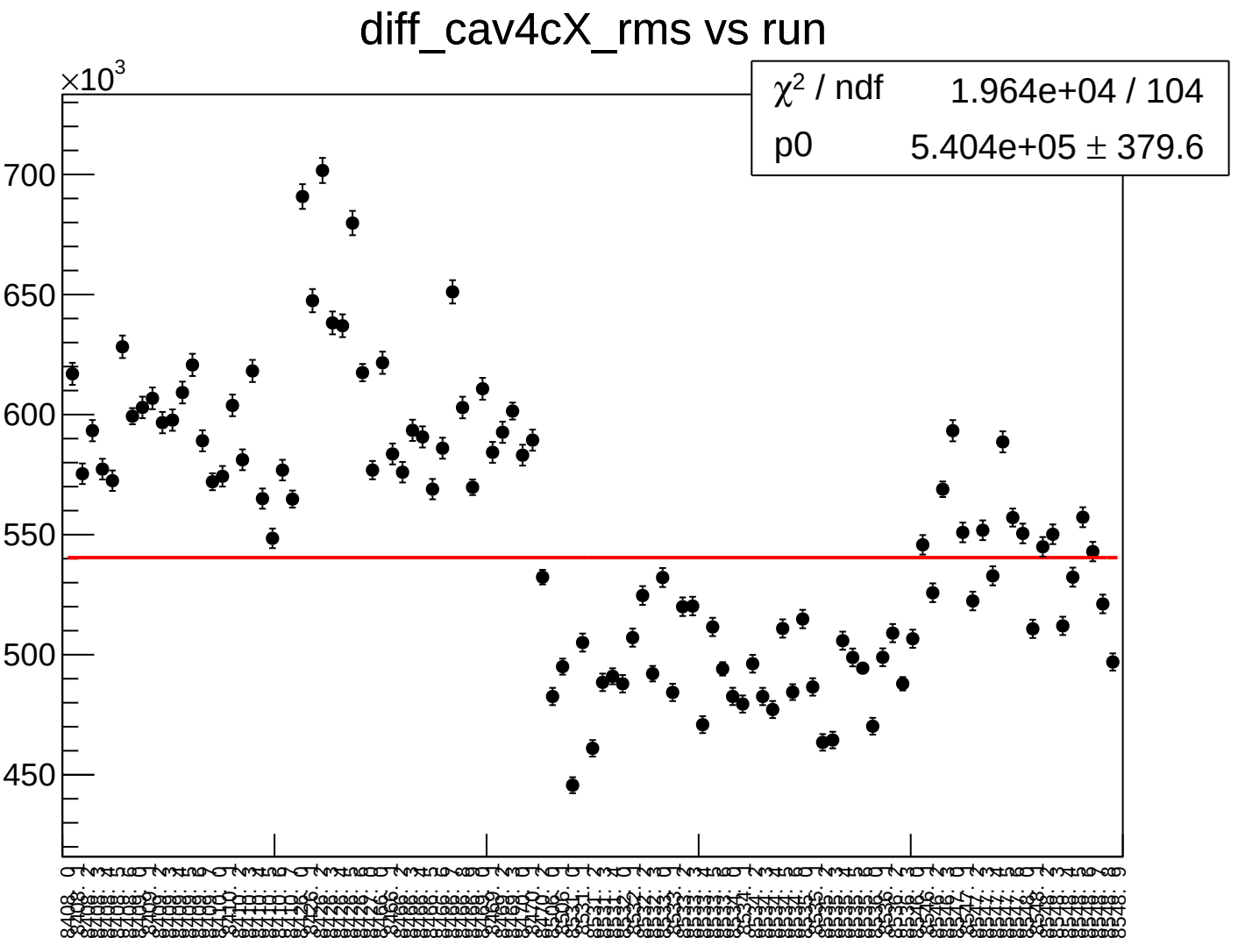

diff_cav4bY_mean vs run
χ² / ndf 116.9 / 104
p0 841.7 ± 341
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 105
Mean −2.429
Std Dev 0
3
2
1
0
−1
−2
−3

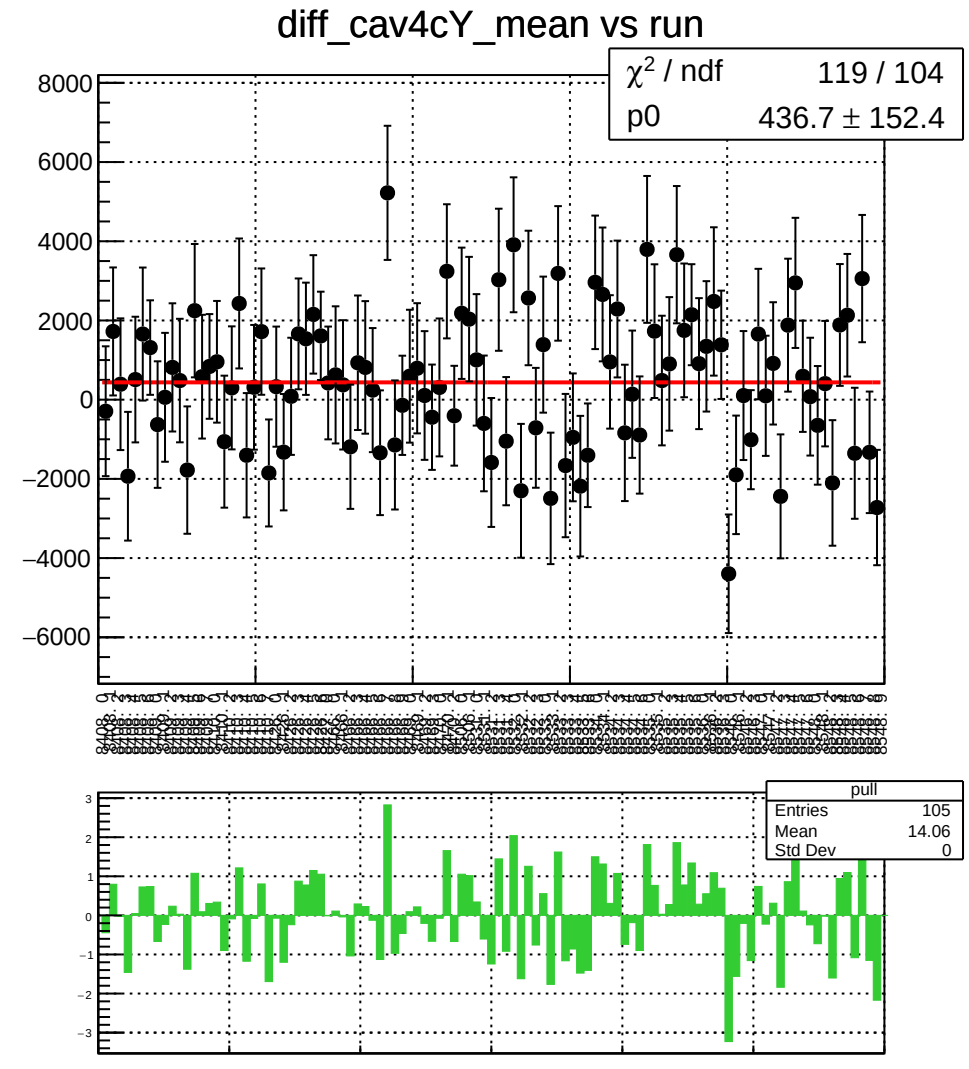

pull1D
Entries 105
Mean 0.01315
Std Dev 1.055
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

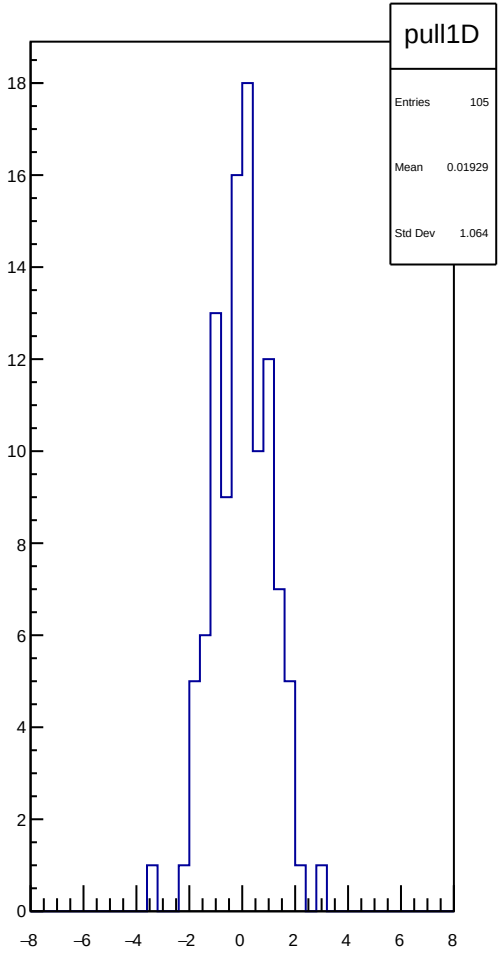

diff_cav4bY_rms vs run
×10^3
400
380
360
340
320
300
χ² / ndf 5090 / 104
p0 3.445e+05 ± 241.1

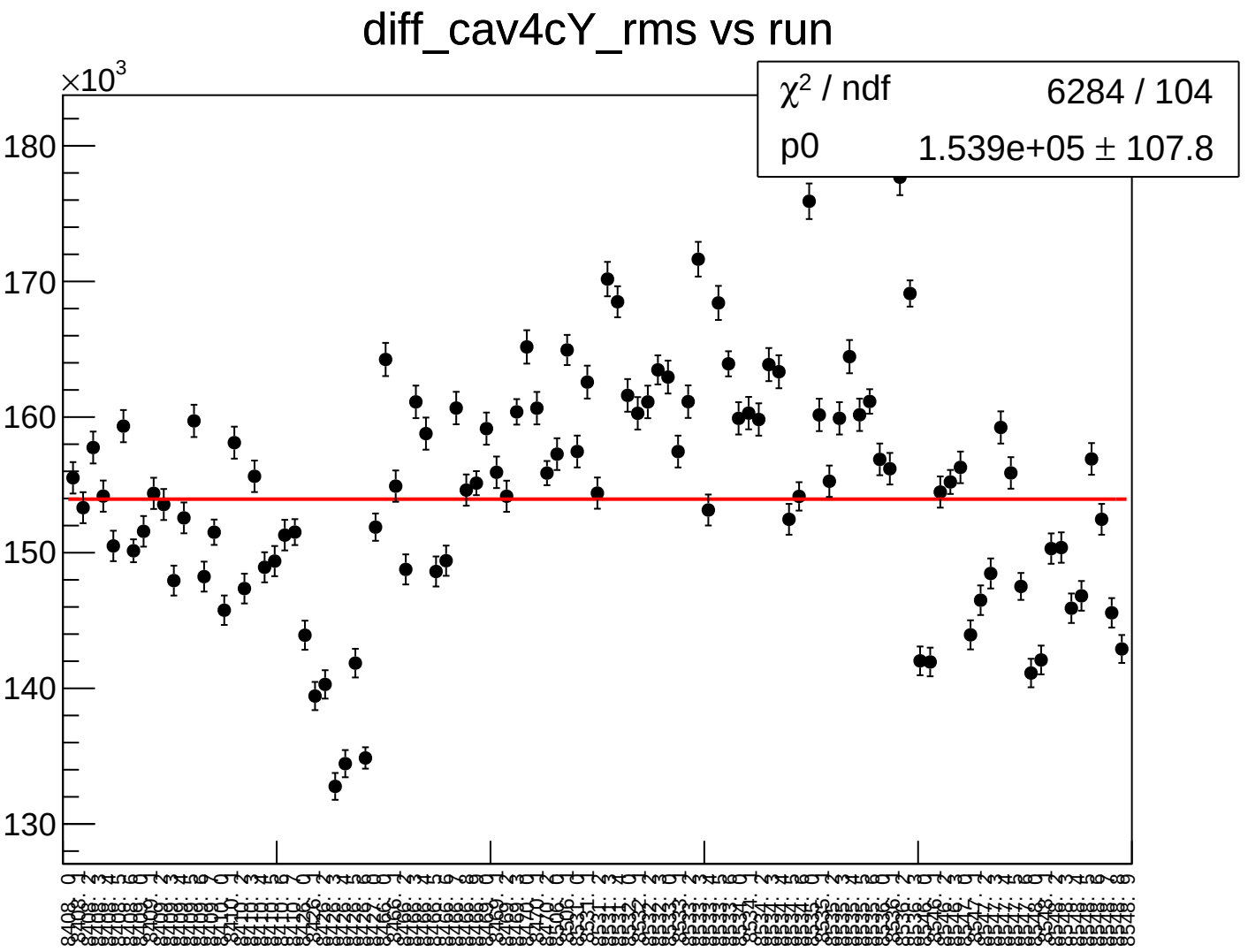

diff_cav4cX_mean vs run
χ² / ndf 110.4 / 104
p0 −1834 ± 536.9
pull
Entries 105
Mean −3694
Std Dev 0

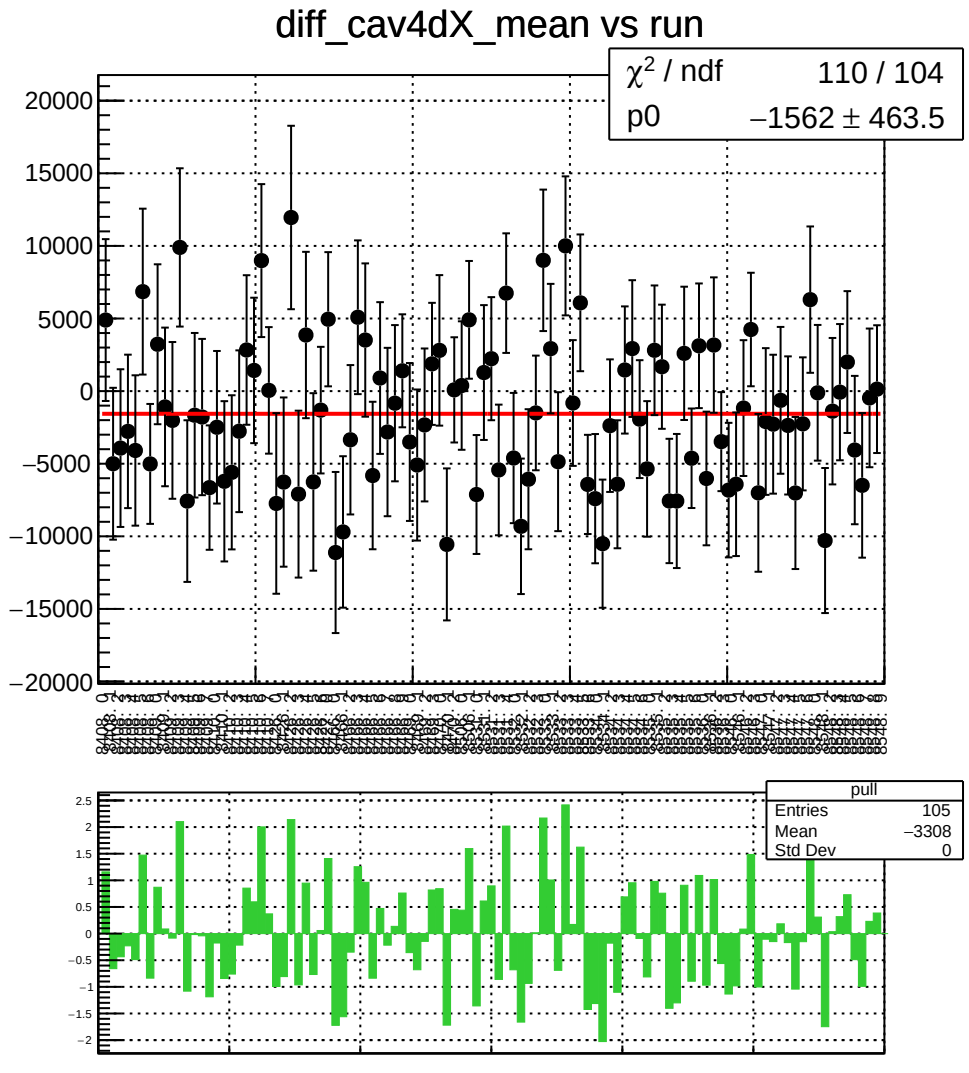

pull1D
Entries 105
Mean 0.0005124
Std Dev 1.025

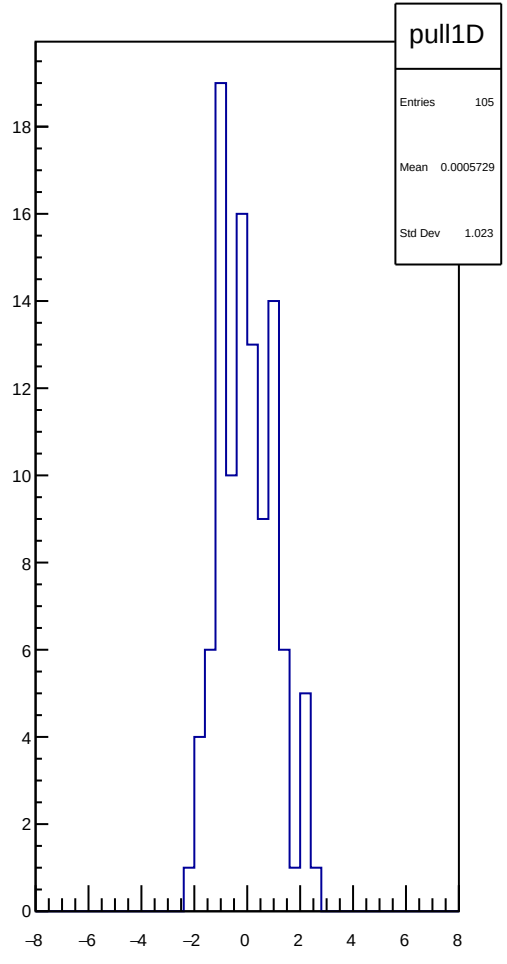

diff_cav4cX_rms vs run
×10^3
χ² / ndf 1.964e+04 / 104
p0 5.404e+05 ± 379.6
700
650
600
550
500
450

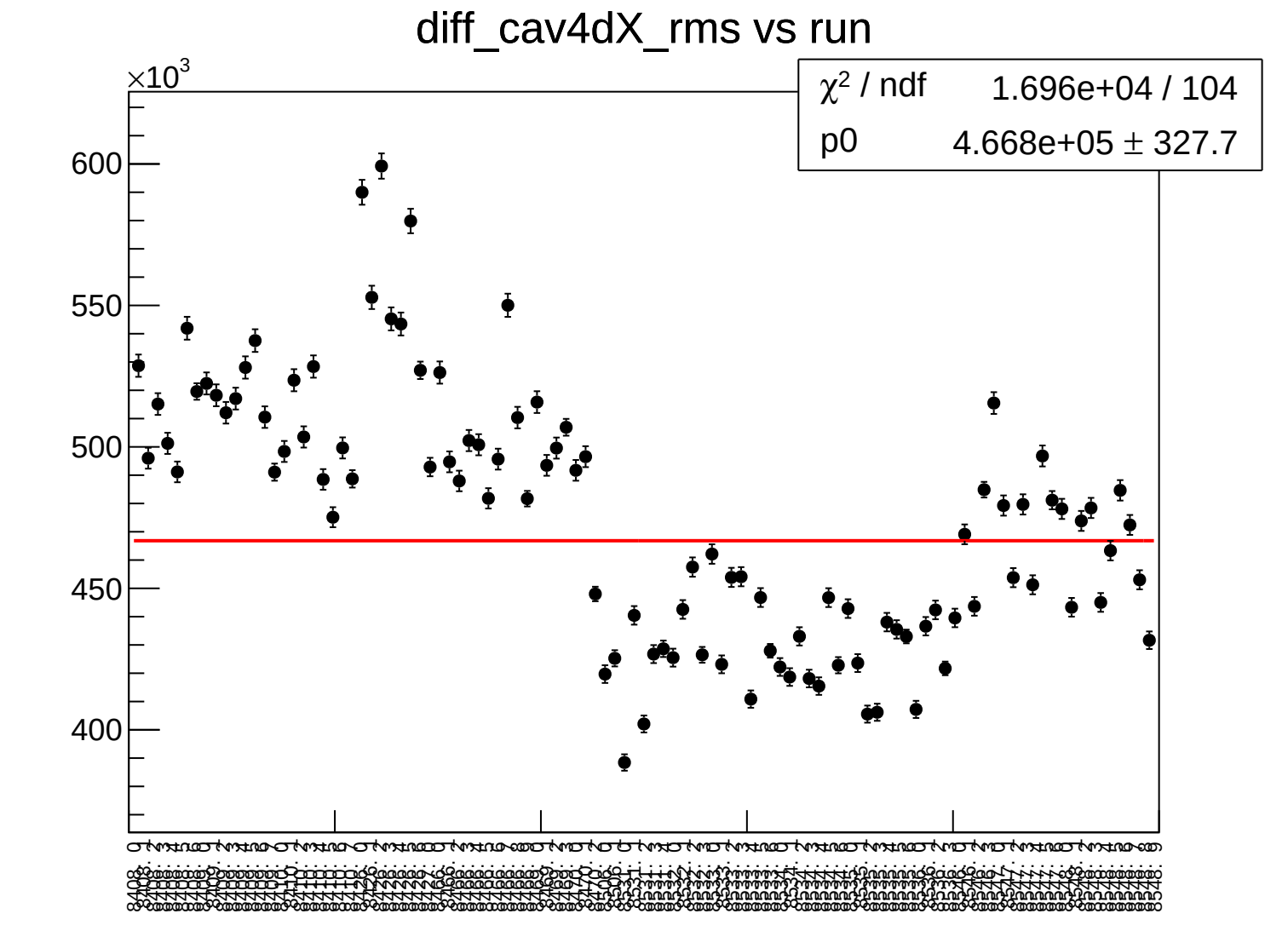

diff_cav4cY_mean vs run
χ² / ndf 119 / 104
p0 436.7 ± 152.4
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 105
Mean 14.06
Std Dev 0
3
2
1
0
−1
−2
−3

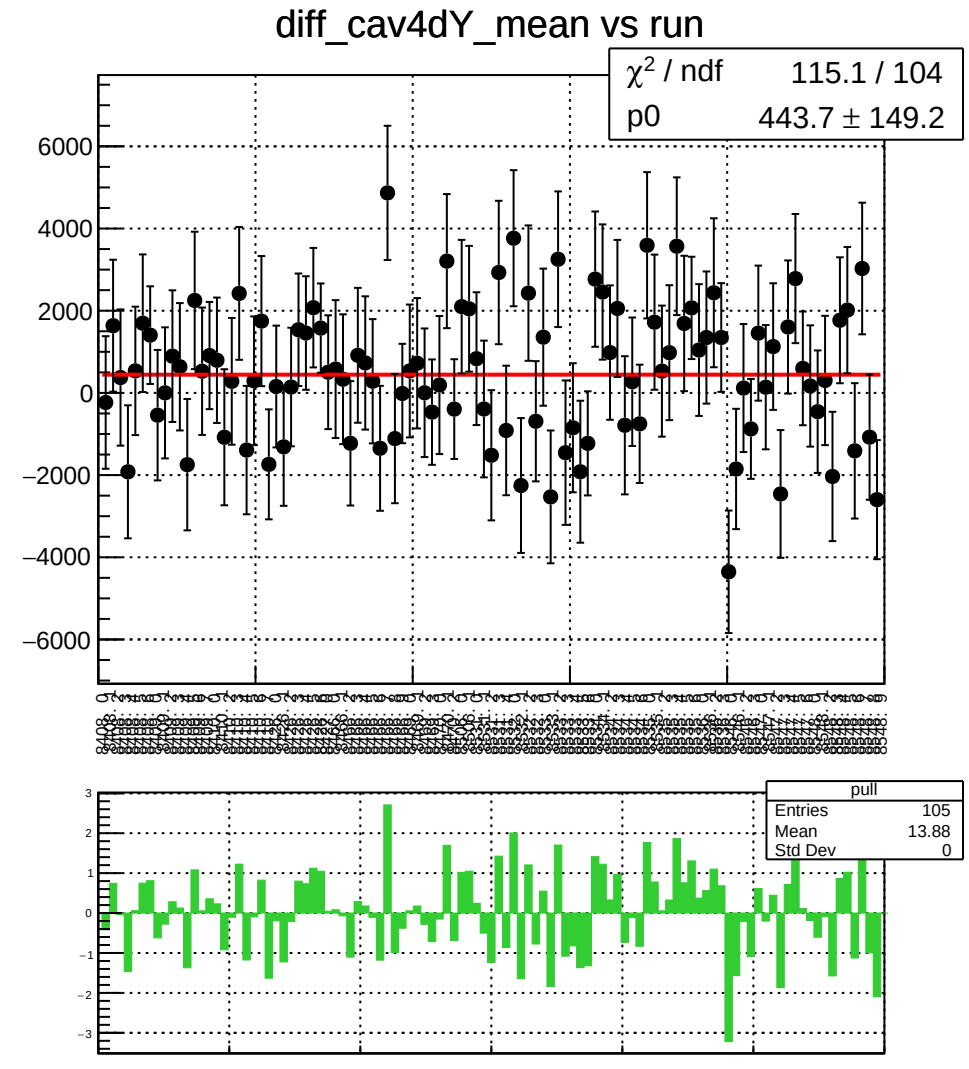

pull1D
Entries 105
Mean 0.01929
Std Dev 1.064
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

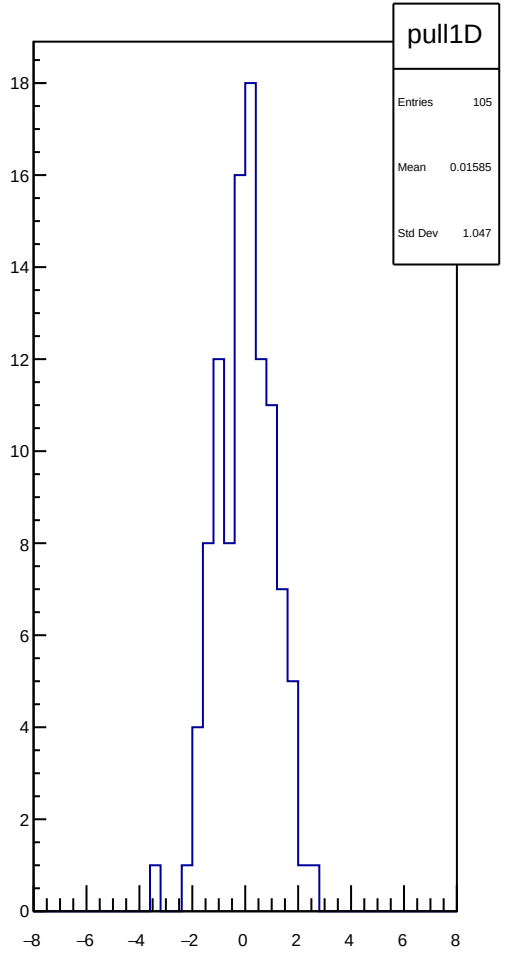

diff_cav4cY_rms vs run
×10^3
180
170
160
150
140
130
χ² / ndf 6284 / 104
p0 1.539e+05 ± 107.8

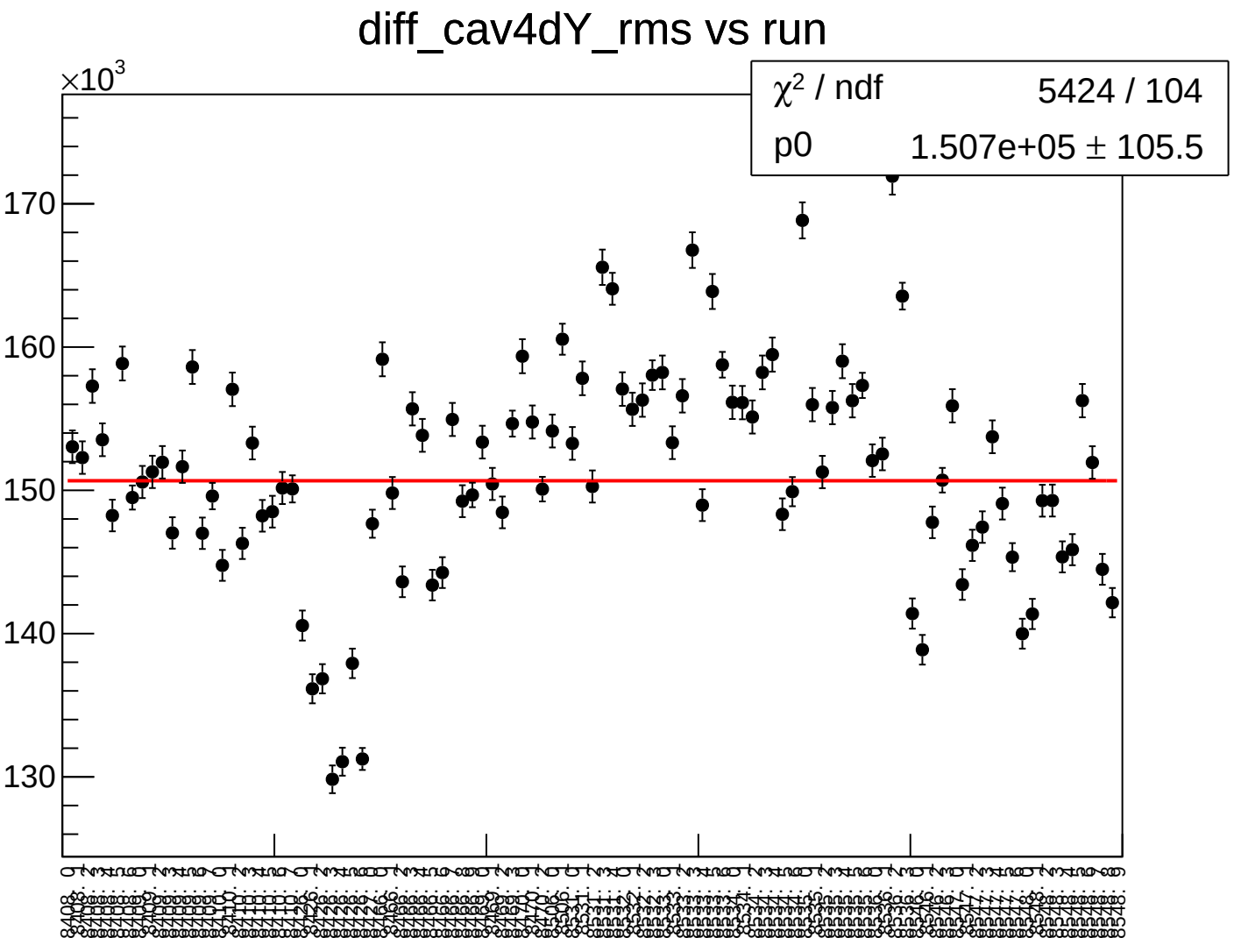

diff_cav4dX_mean vs run
χ² / ndf 110 / 104
p0 −1562 ± 463.5
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 105
Mean −3308
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

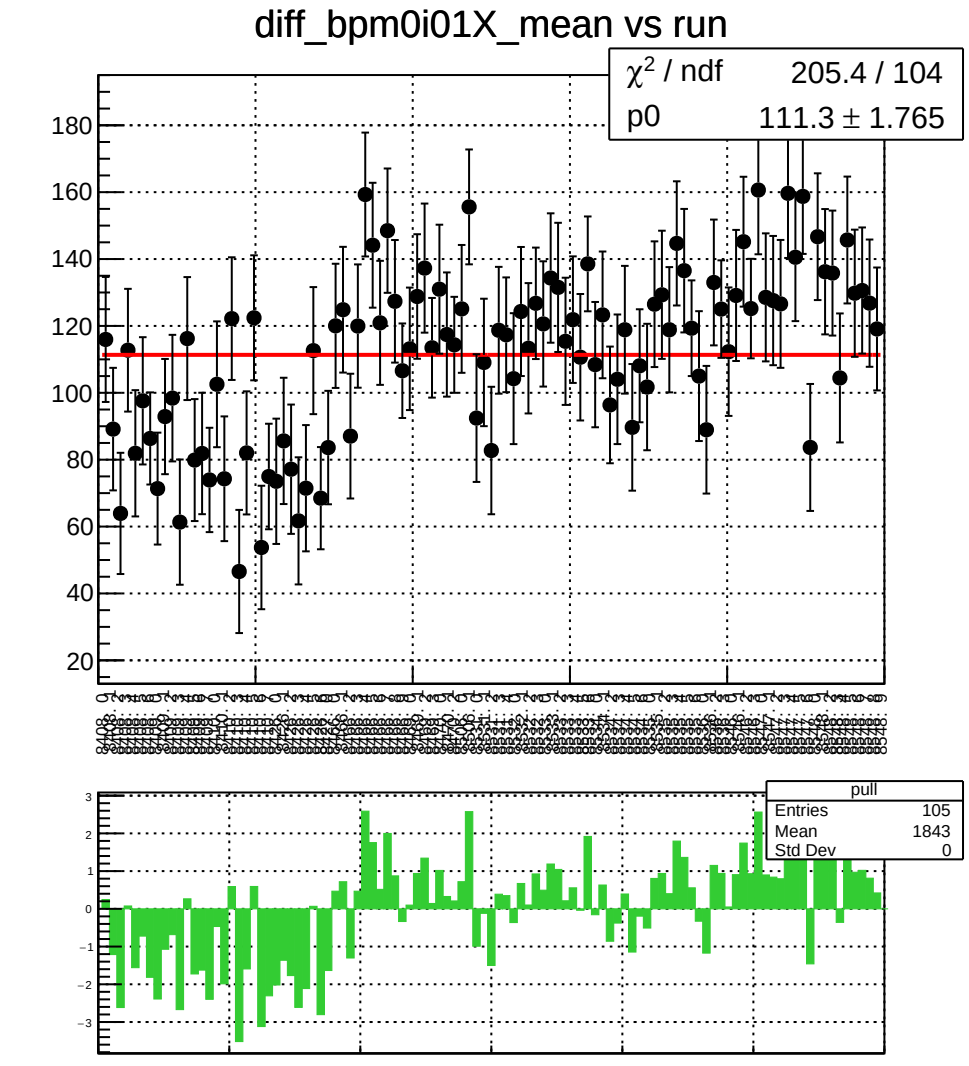

pull1D
Entries 105
Mean 0.0005729
Std Dev 1.023
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

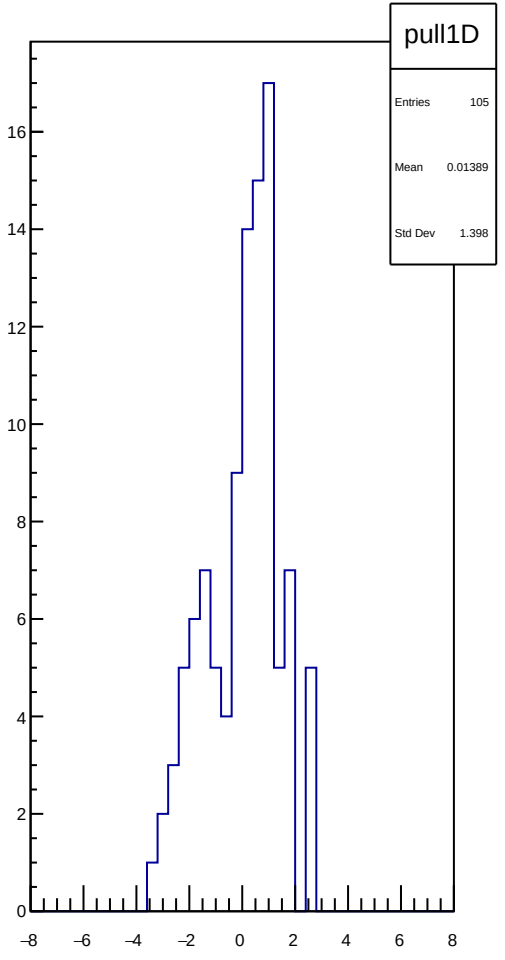

diff_cav4dX_rms vs run
×10^3
600
550
500
450
400
χ² / ndf 1.696e+04 / 104
p0 4.668e+05 ± 327.7

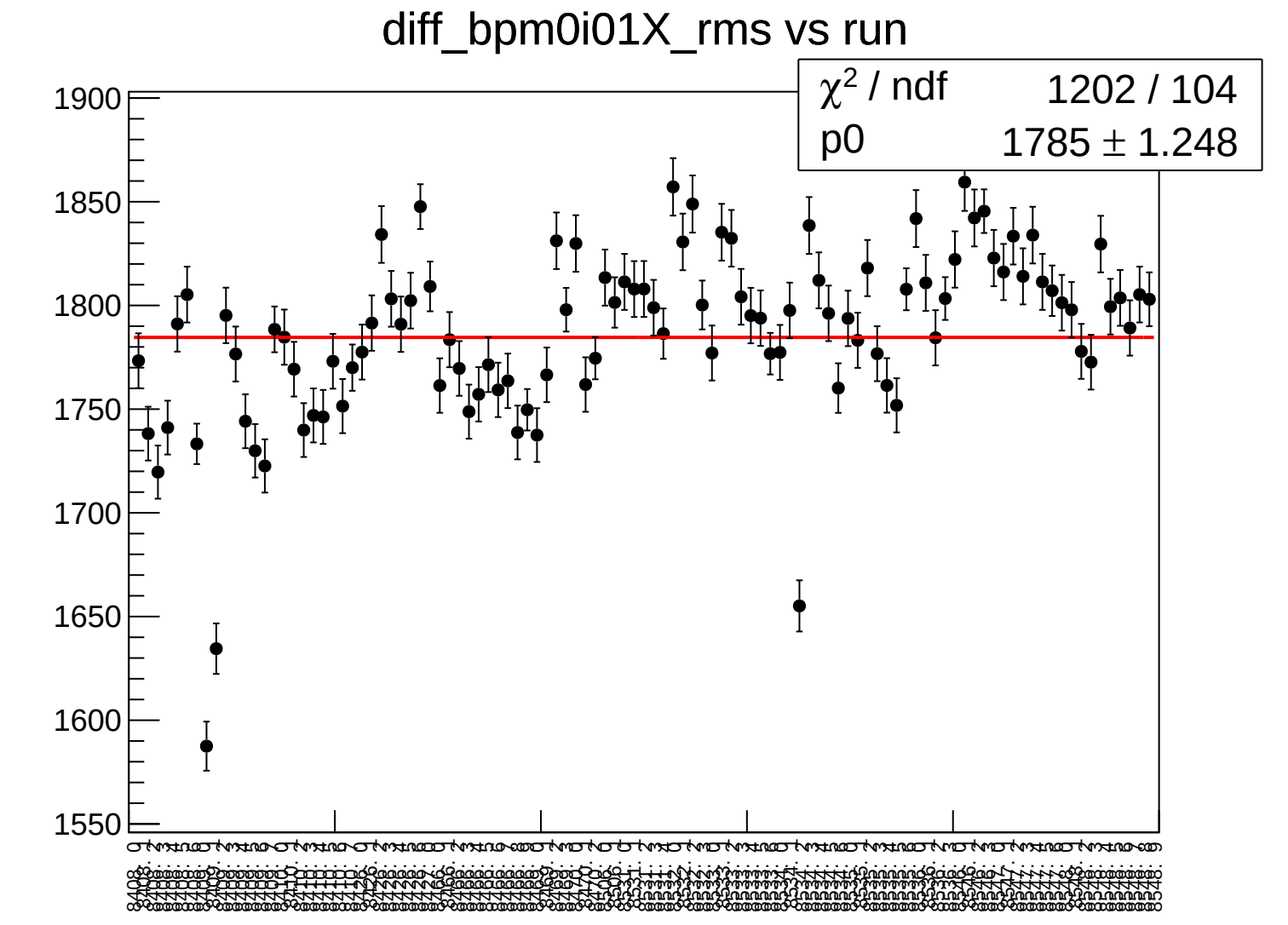

diff_cav4dY_mean vs run
χ² / ndf 115.1 / 104
p0 443.7 ± 149.2
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 105
Mean 13.88
Std Dev 0
3
2
1
0
−1
−2
−3

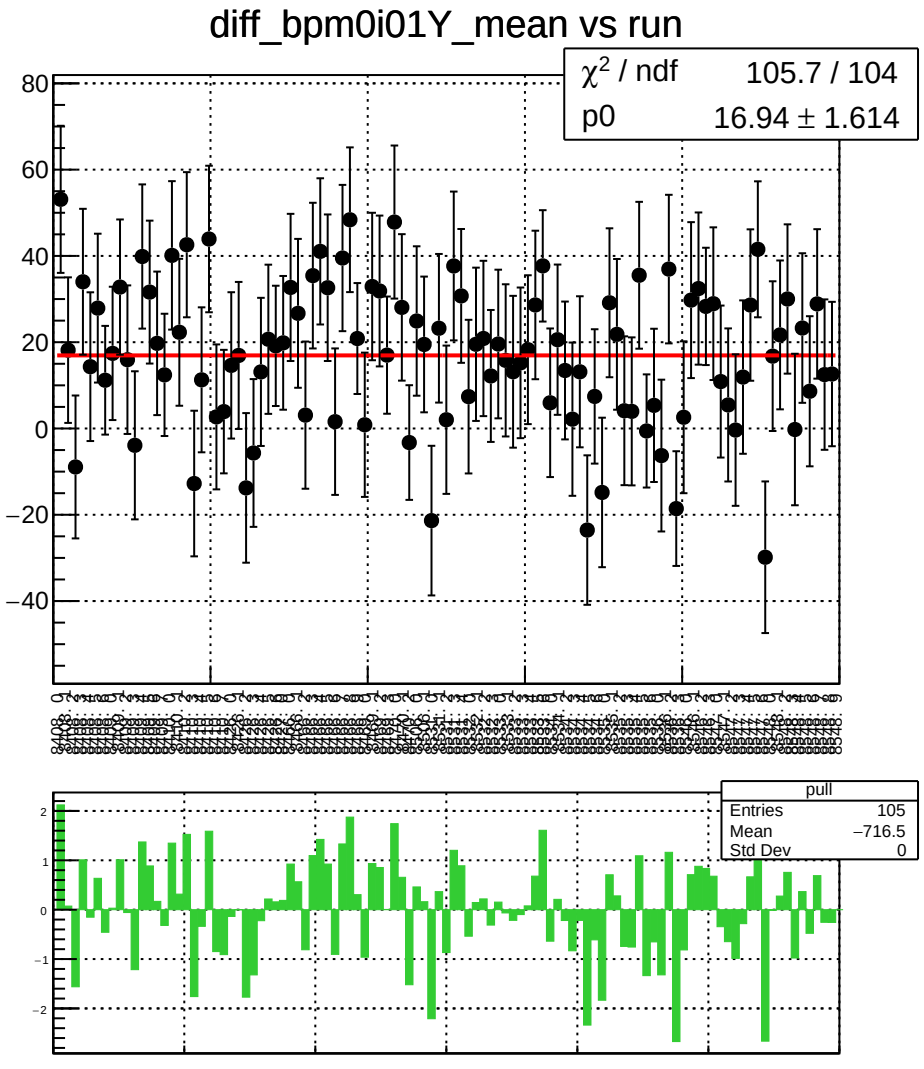

pull1D
Entries 105
Mean 0.01585
Std Dev 1.047
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

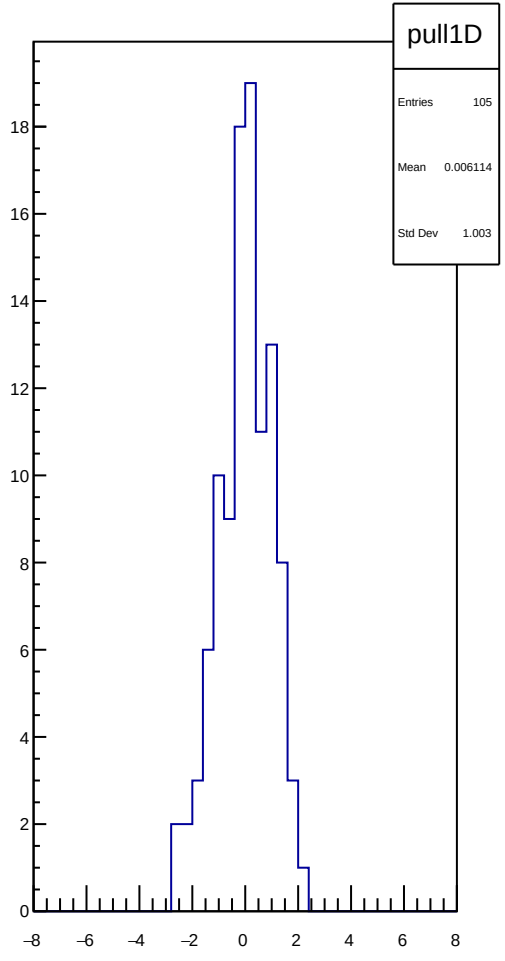

diff_cav4dY_rms vs run
×10^3
χ² / ndf 5424 / 104
p0 1.507e+05 ± 105.5
170
160
150
140
130

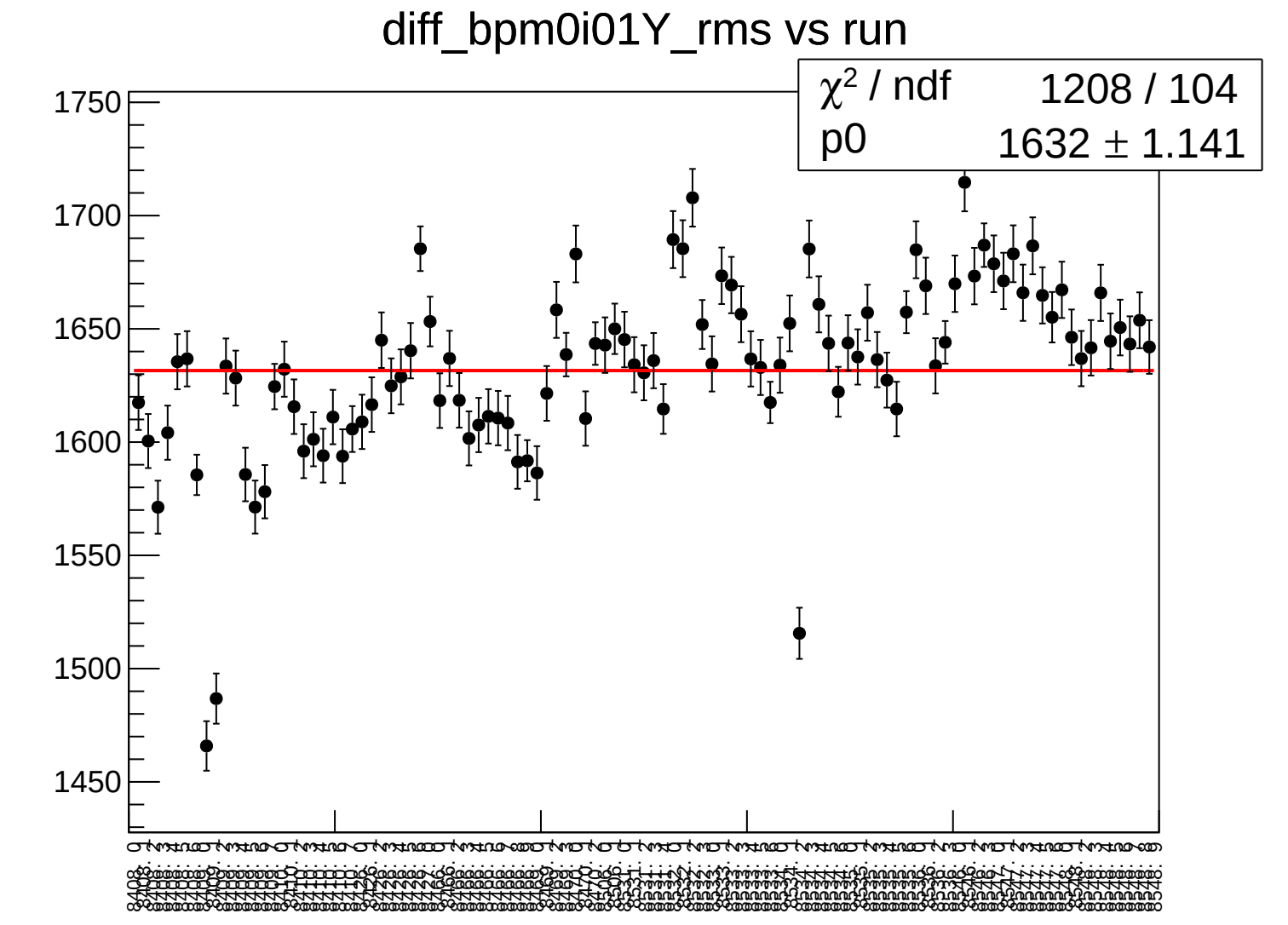

diff_bpm0i01X_mean vs run
χ² / ndf 205.4 / 104
p0 111.3 ± 1.765
pull
Entries 105
Mean 1843
Std Dev 0

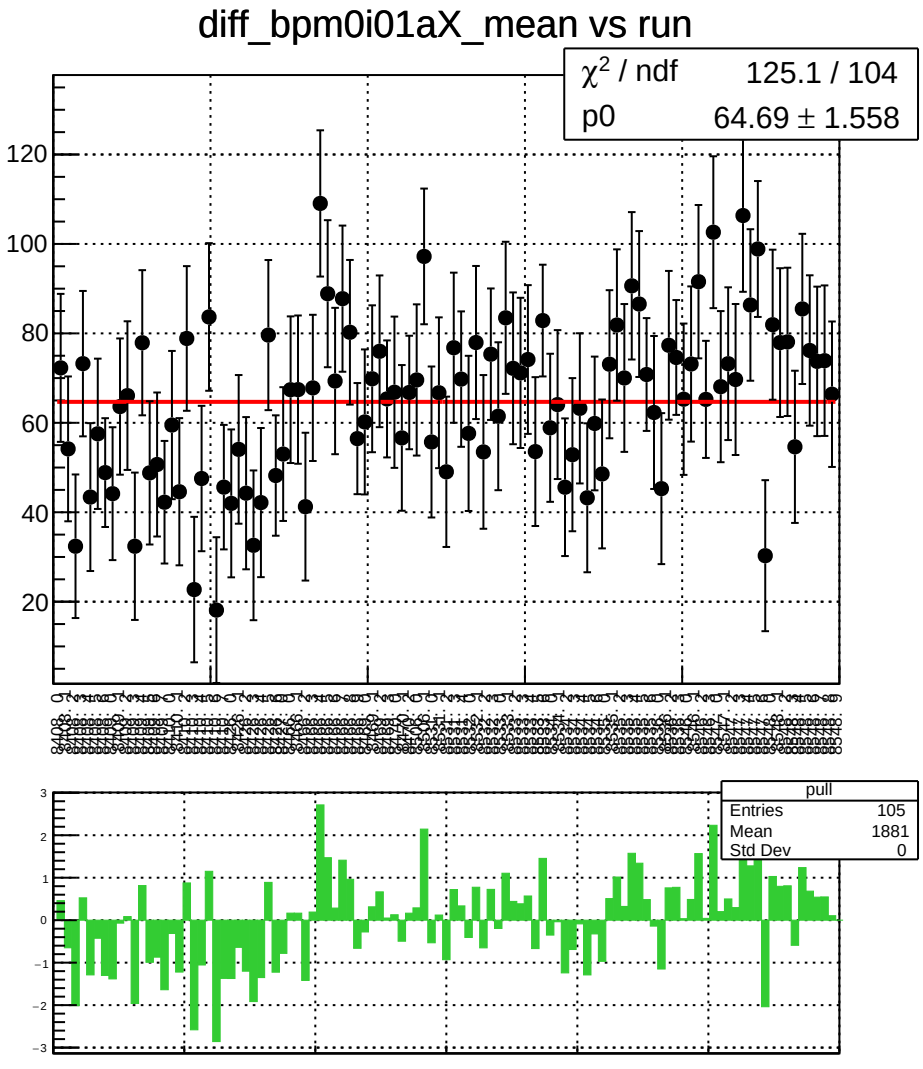

pull1D
Entries 105
Mean 0.01389
Std Dev 1.398

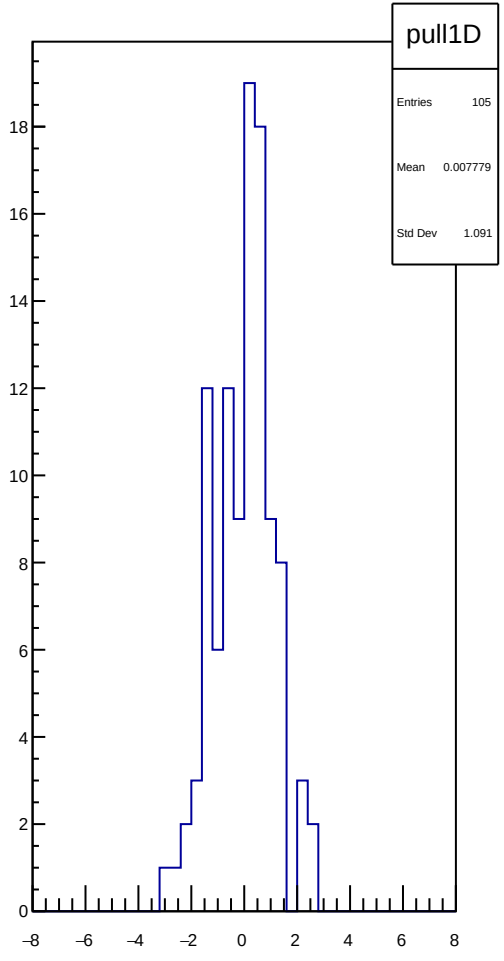

diff_bpm0i01X_rms vs run
χ² / ndf 1202 / 104
p0 1785 ± 1.248
1900
1850
1800
1750
1700
1650
1600
1550

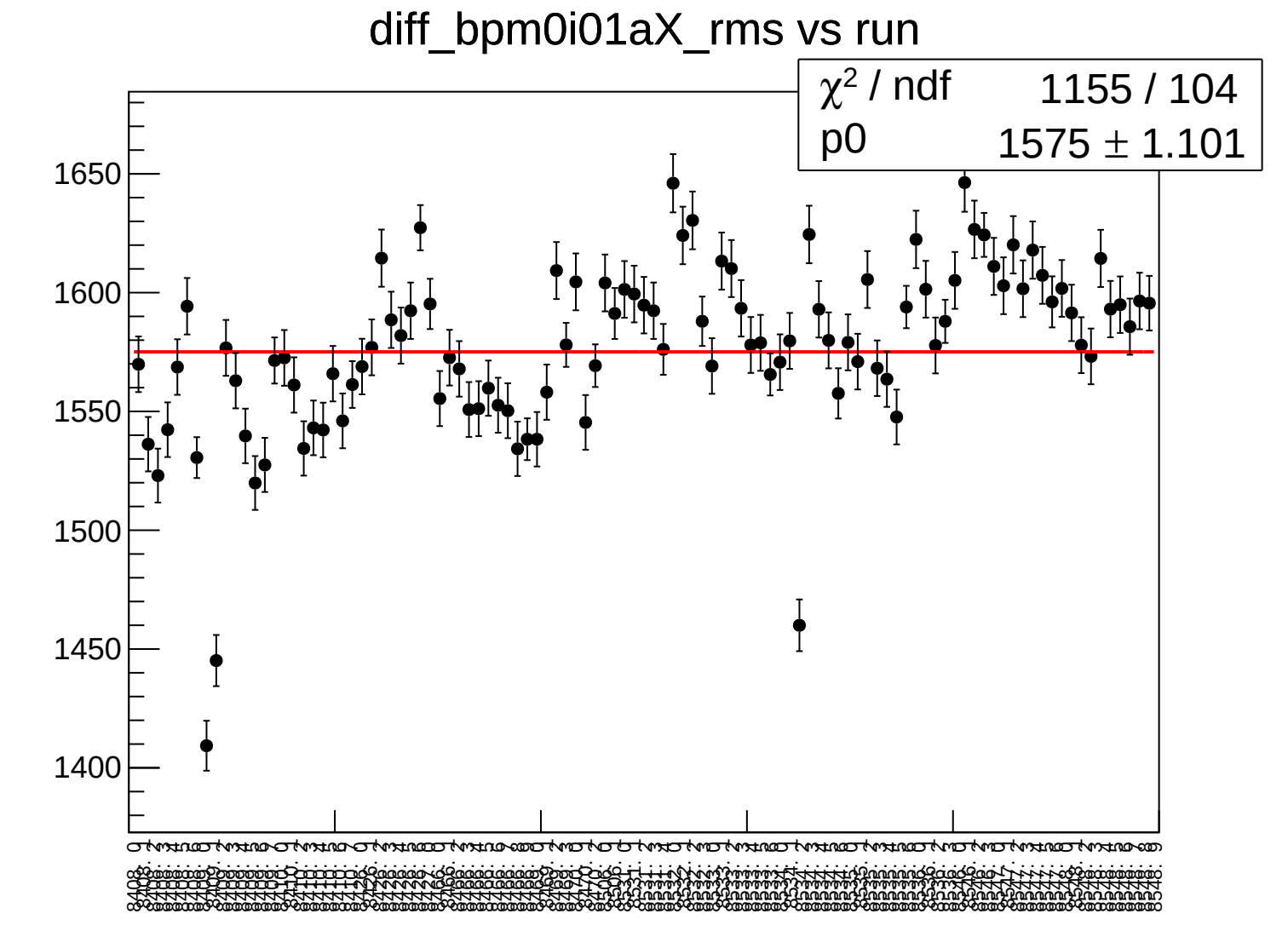

diff_bpm0i01Y_mean vs run
χ² / ndf 105.7 / 104
p0 16.94 ± 1.614
80
60
40
20
0
−20
−40
pull
Entries 105
Mean −716.5
Std Dev 0
2
1
0
−1
−2

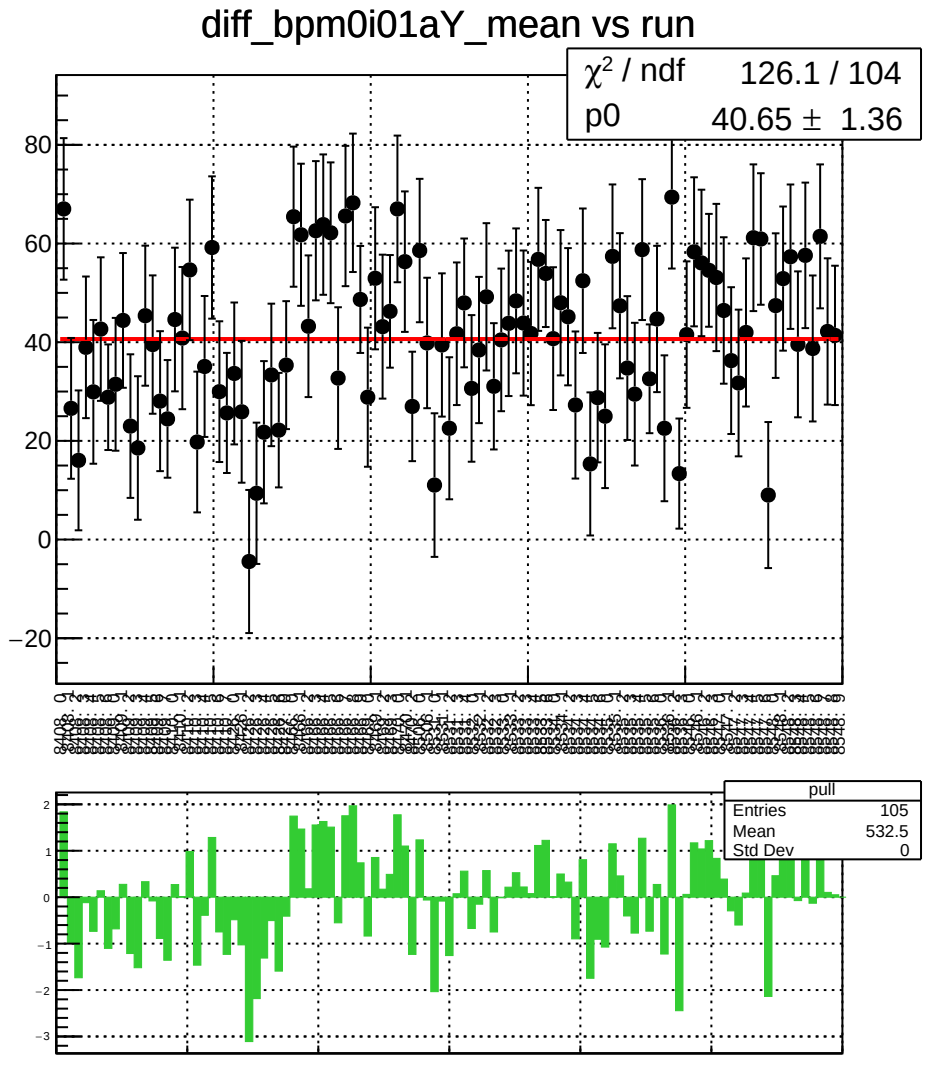

pull1D
Entries 105
Mean 0.006114
Std Dev 1.003
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

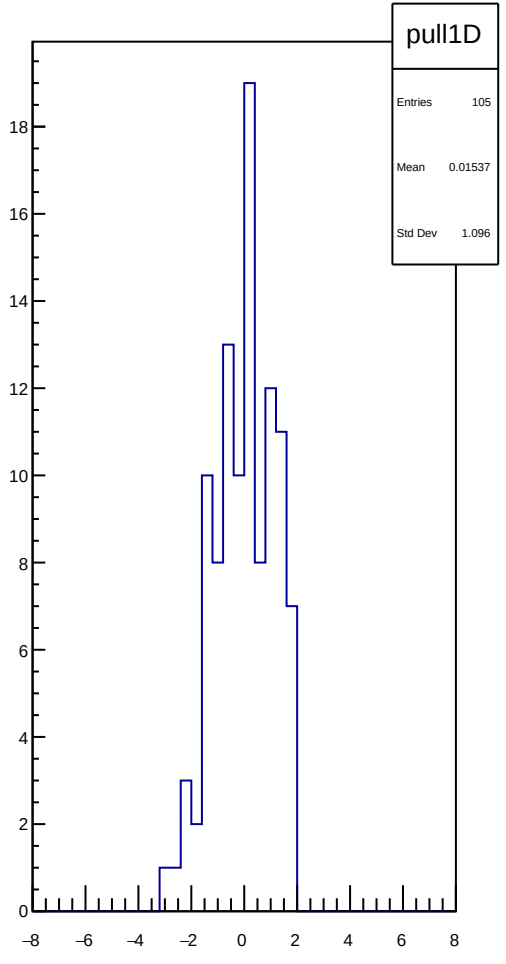

diff_bpm0i01Y_rms vs run
χ² / ndf 1208 / 104
p0 1632 ± 1.141
1750
1700
1650
1600
1550
1500
1450

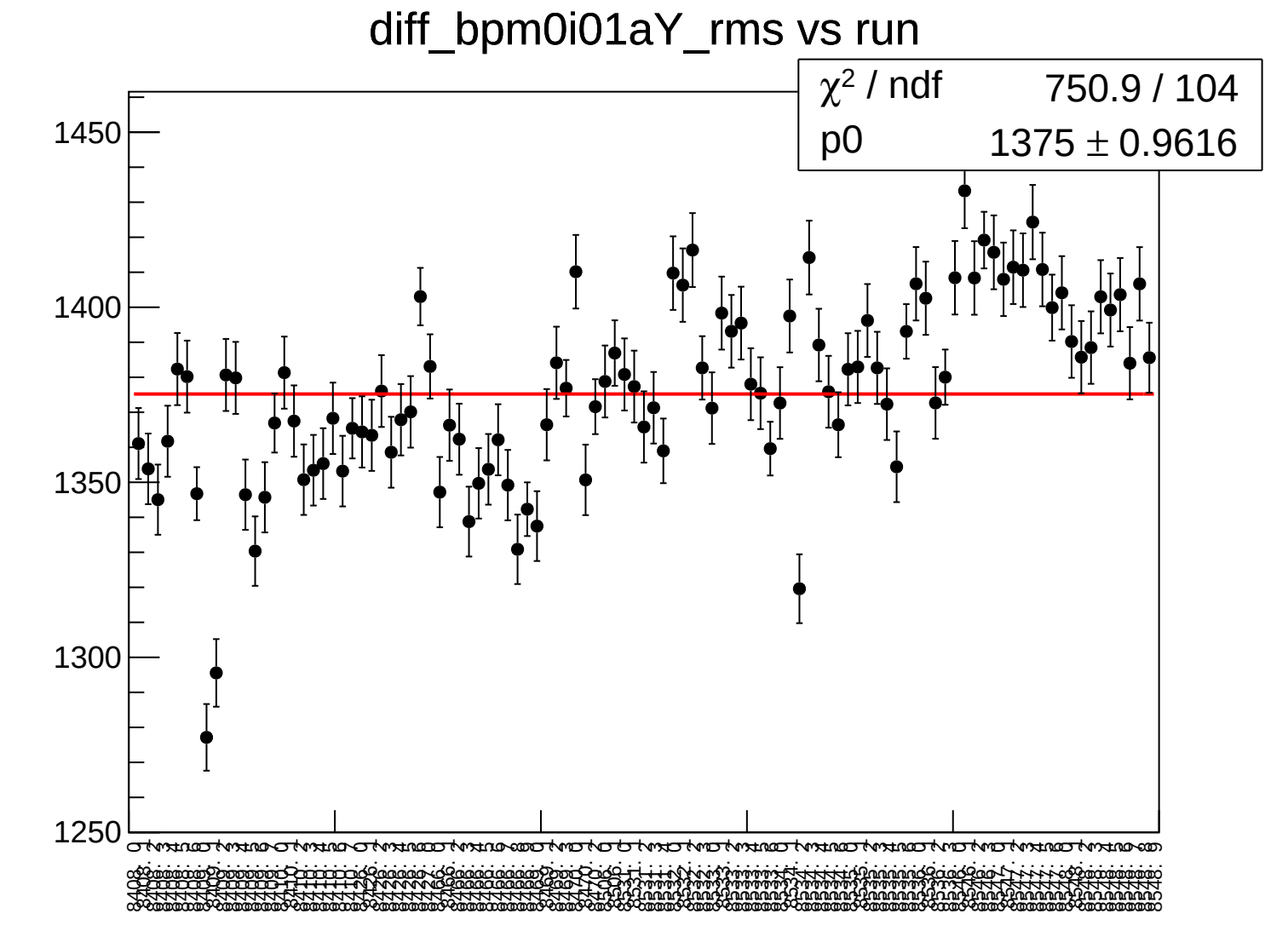

diff_bpm0i01aX_mean vs run
χ² / ndf 125.1 / 104
p0 64.69 ± 1.558
120
100
80
60
40
20
pull
Entries 105
Mean 1881
Std Dev 0
3
2
1
0
−1
−2
−3

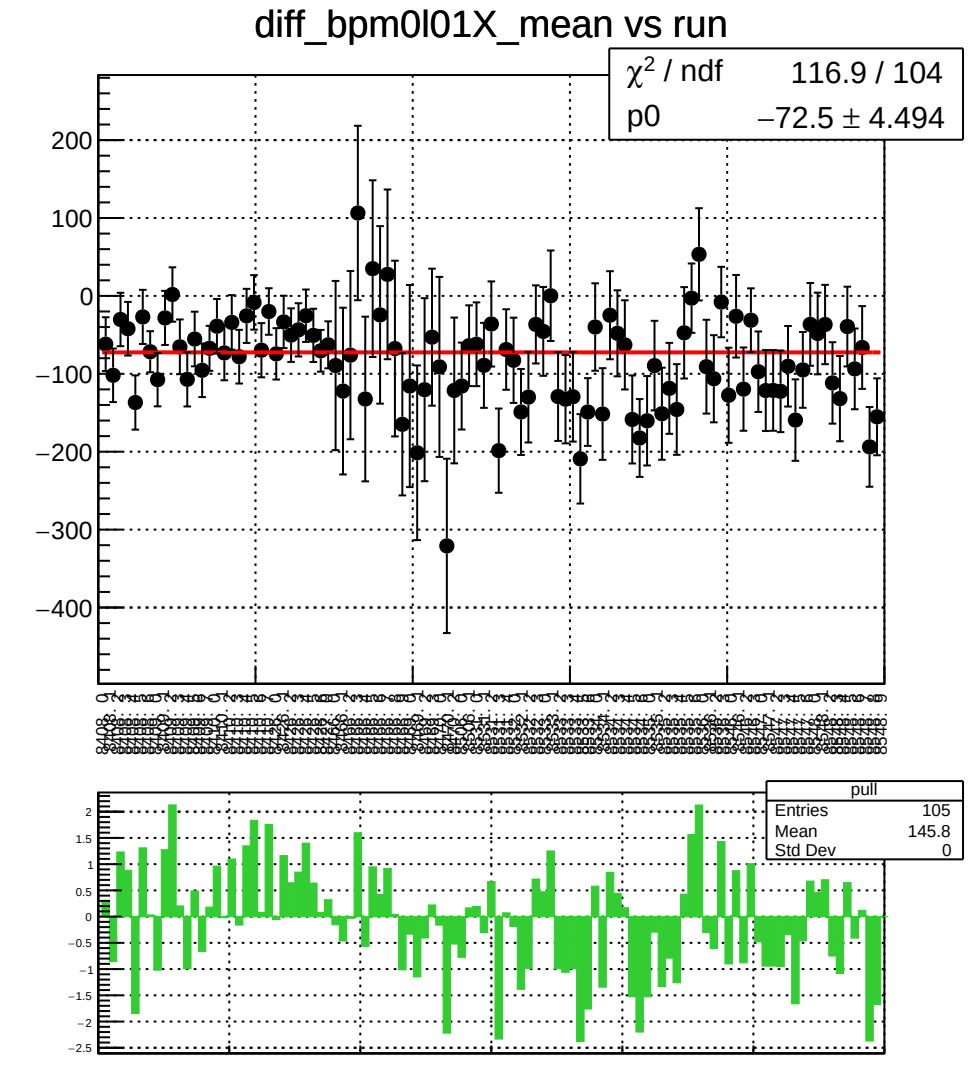

pull1D
Entries 105
Mean 0.007779
Std Dev 1.091
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

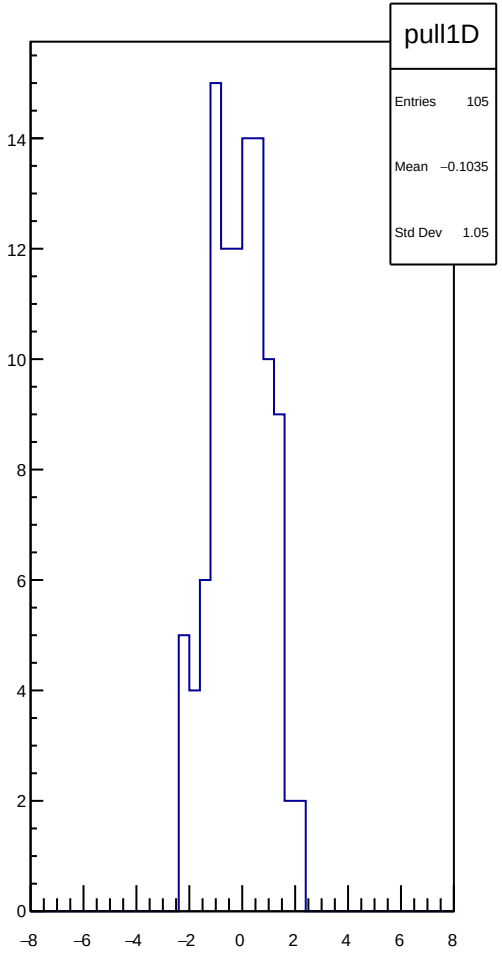

diff_bpm0i01aX_rms vs run
χ² / ndf 1155 / 104
p0 1575 ± 1.101
1650
1600
1550
1500
1450
1400

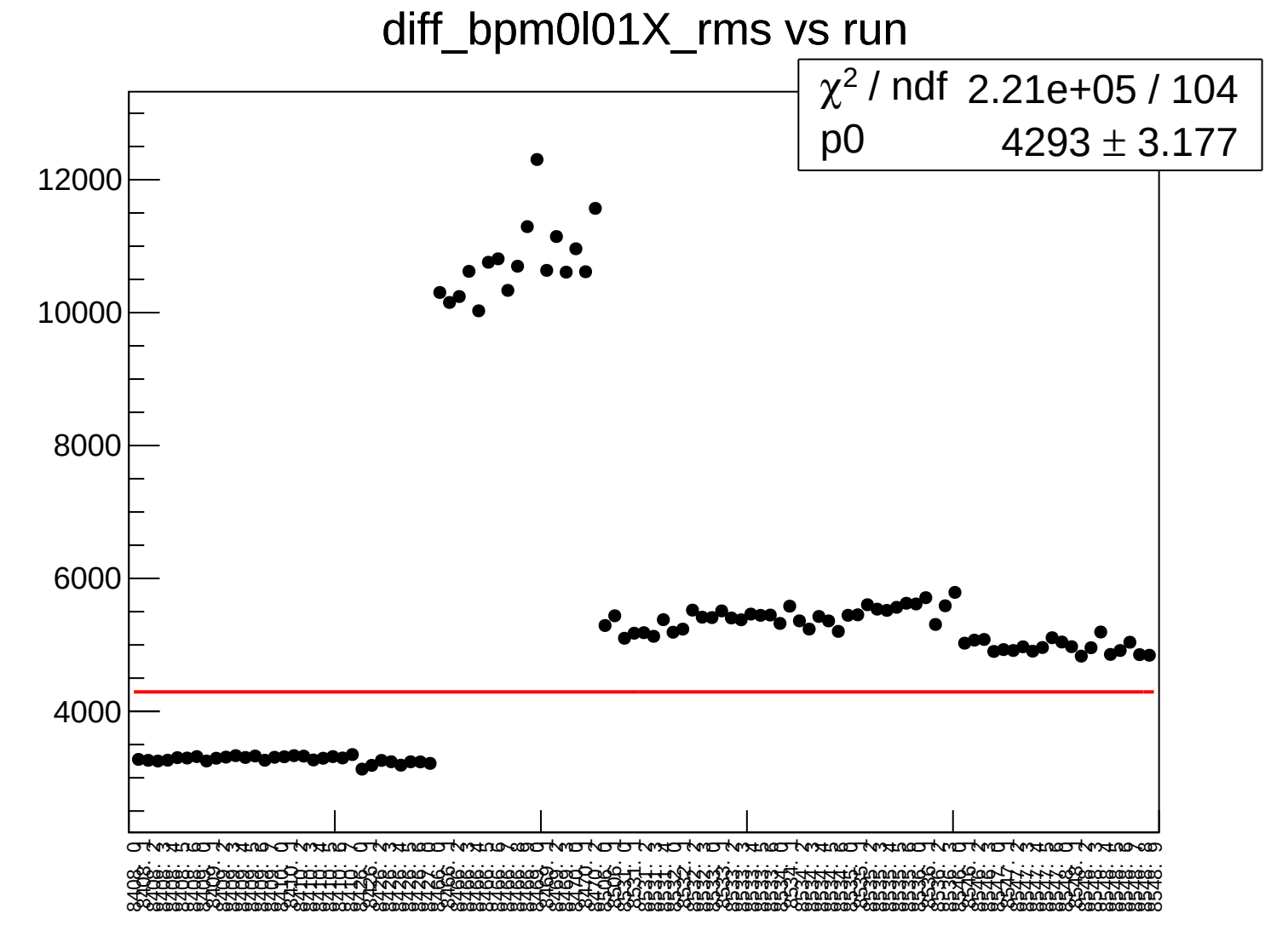

diff_bpm0i01aY_mean vs run
χ² / ndf 126.1 / 104
p0 40.65 ± 1.36
80
60
40
20
0
−20
pull
Entries 105
Mean 532.5
Std Dev 0
2
1
0
−1
−2
−3

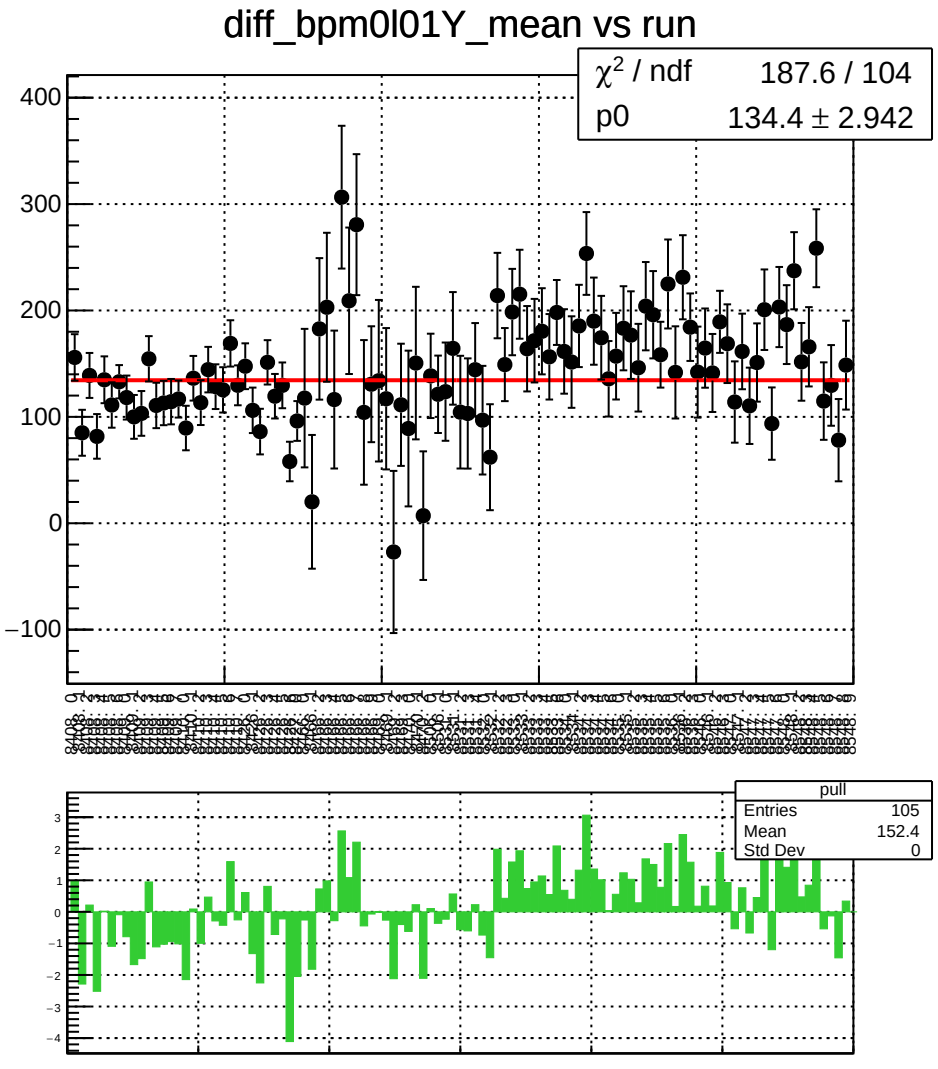

pull1D
Entries 105
Mean 0.01537
Std Dev 1.096
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

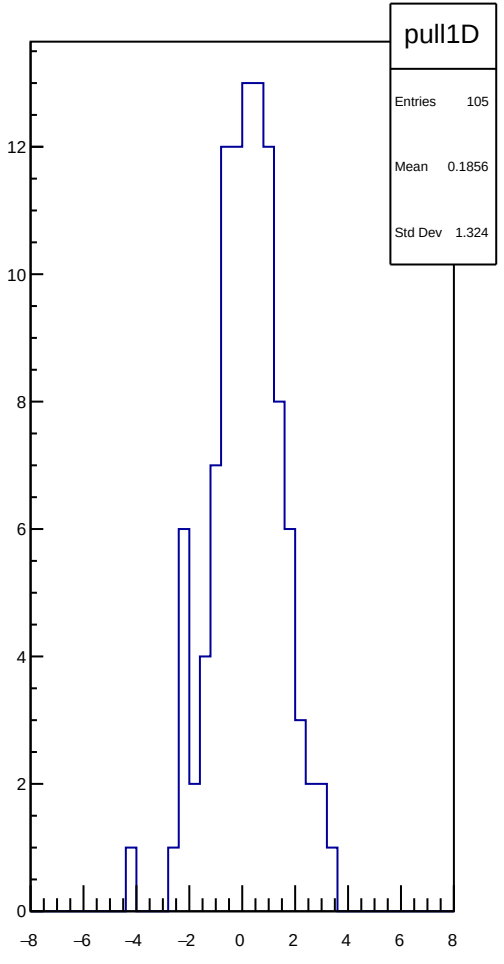

diff_bpm0i01aY_rms vs run
χ² / ndf 750.9 / 104
p0 1375 ± 0.9616
1450
1400
1350
1300
1250

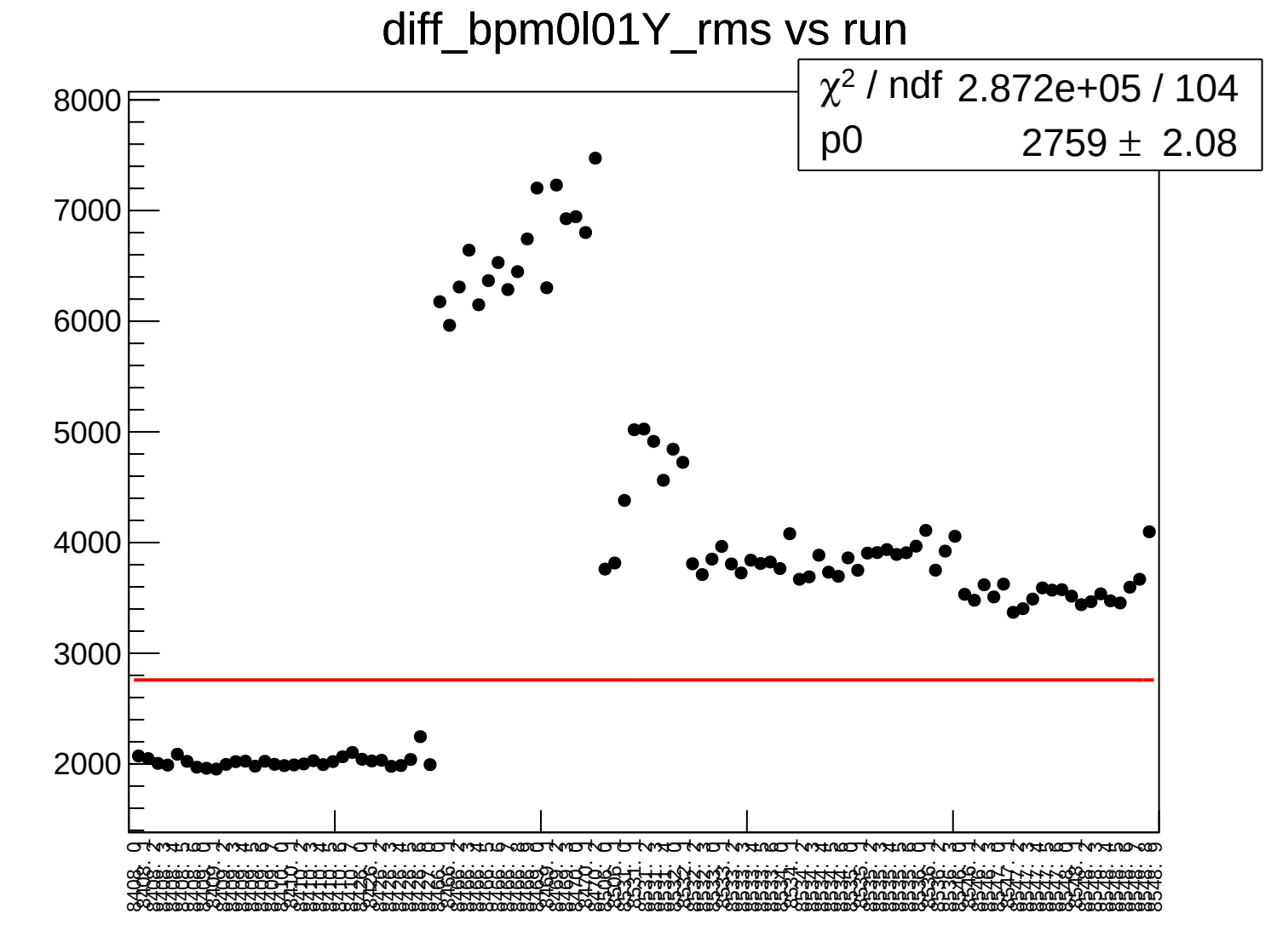

diff_bpm0l01X_mean vs run
χ² / ndf 116.9 / 104
p0 −72.5 ± 4.494
200
100
0
−100
−200
−300
−400
pull
Entries 105
Mean 145.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

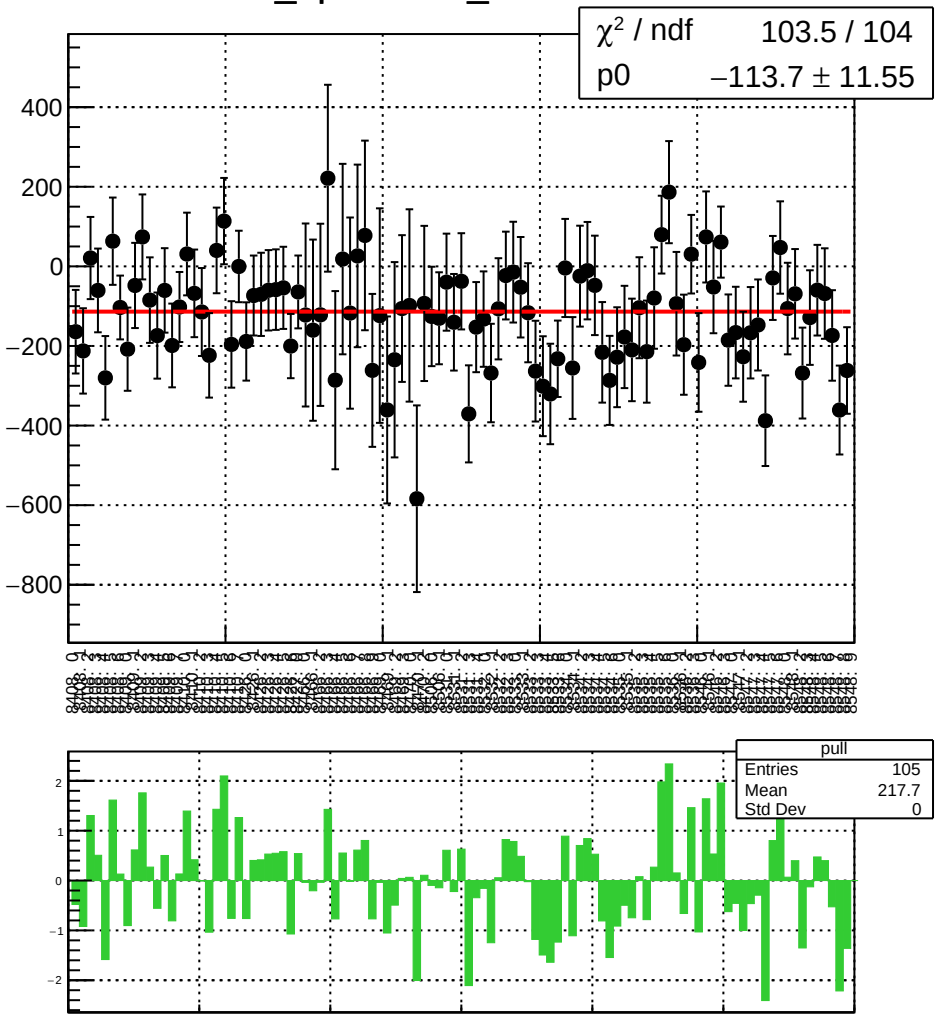

pull1D
Entries 105
Mean −0.1035
Std Dev 1.05
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

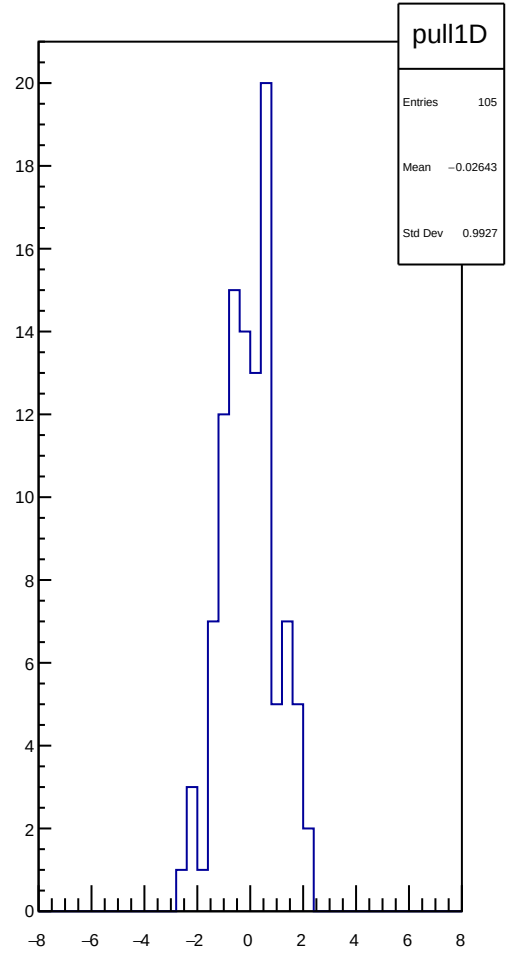

diff_bpm0l01X_rms vs run
χ² / ndf 2.21e+05 / 104
p0 4293 ± 3.177
12000
10000
8000
6000
4000

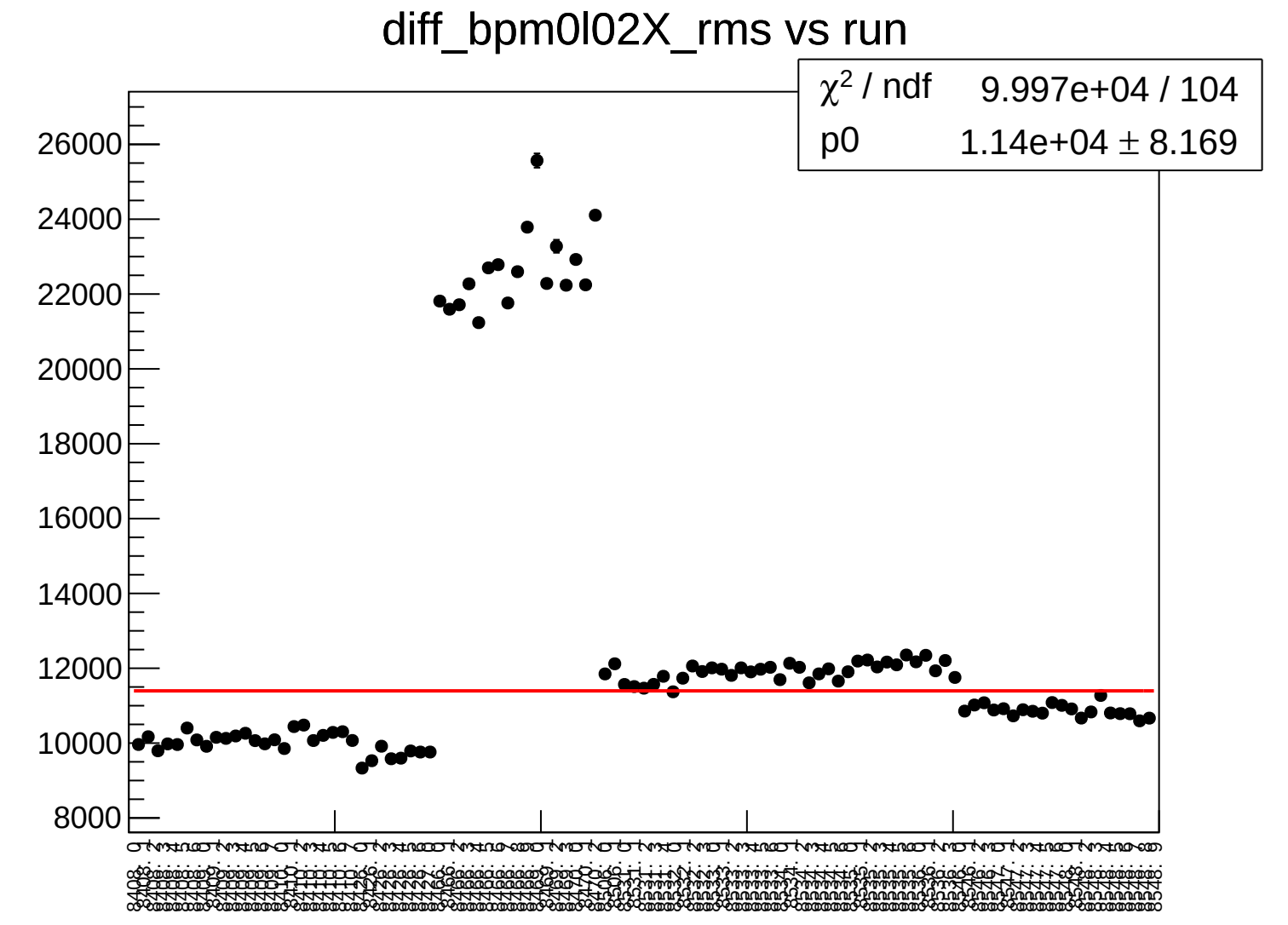

diff_bpm0l01Y_mean vs run
χ² / ndf 187.6 / 104
p0 134.4 ± 2.942
400
300
200
100
0
−100
pull
Entries 105
Mean 152.4
Std Dev 0
3
2
1
0
−1
−2
−3
−4

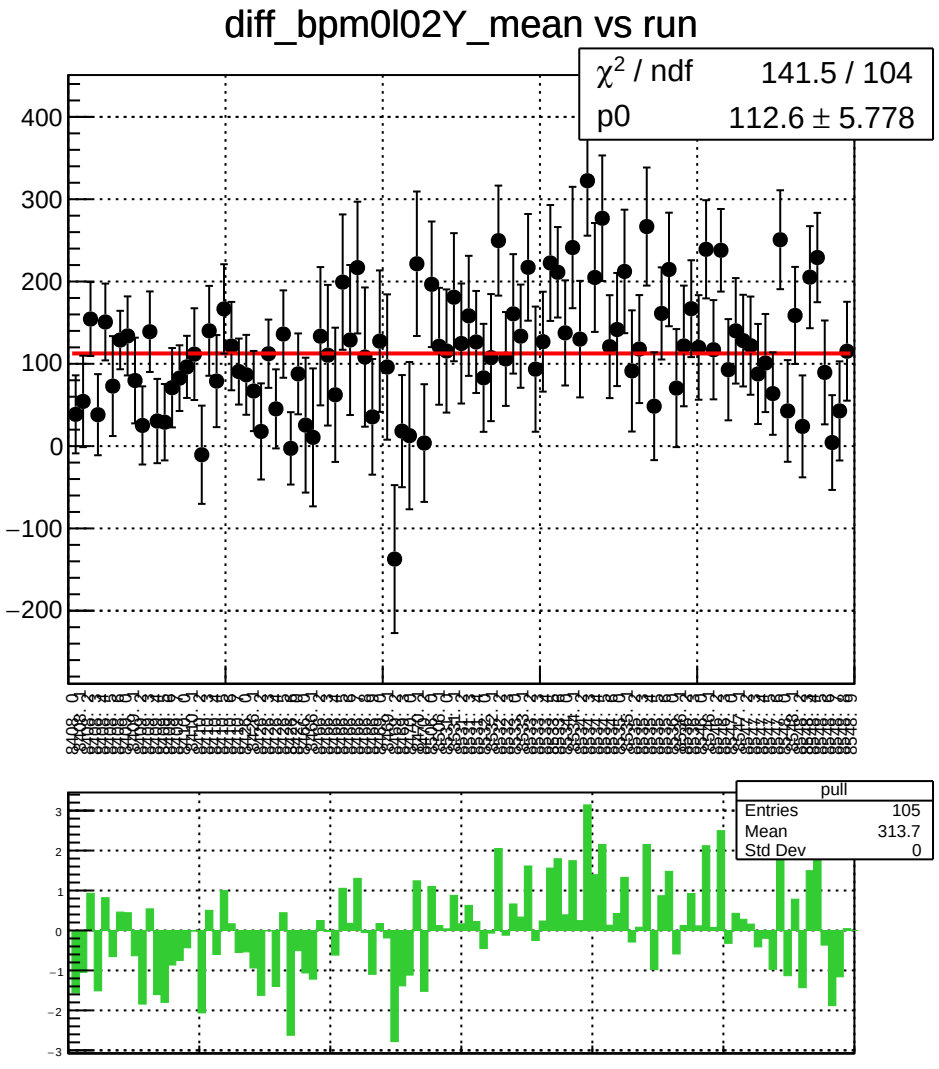

pull1D
Entries 105
Mean 0.1856
Std Dev 1.324
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

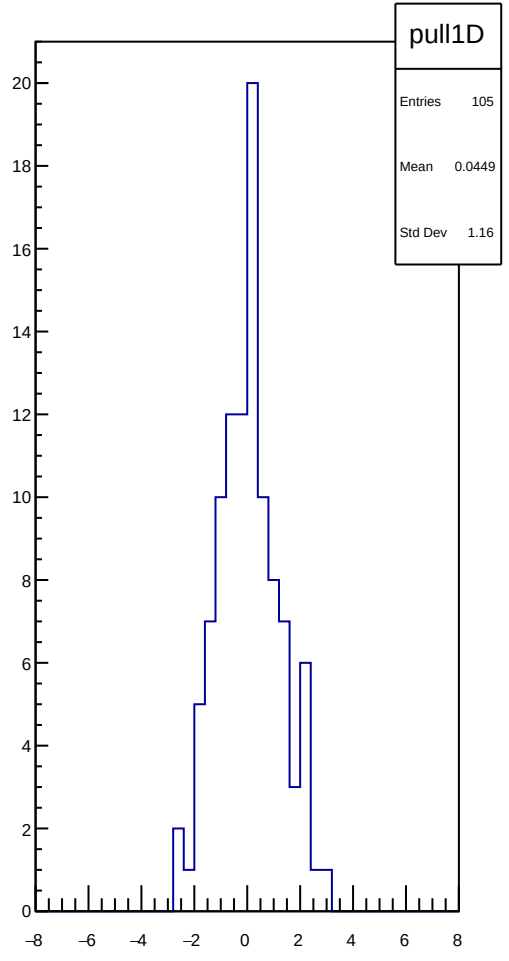

diff_bpm0l01Y_rms vs run
χ² / ndf 2.872e+05 / 104
p0 2759 ± 2.08
8000
7000
6000
5000
4000
3000
2000

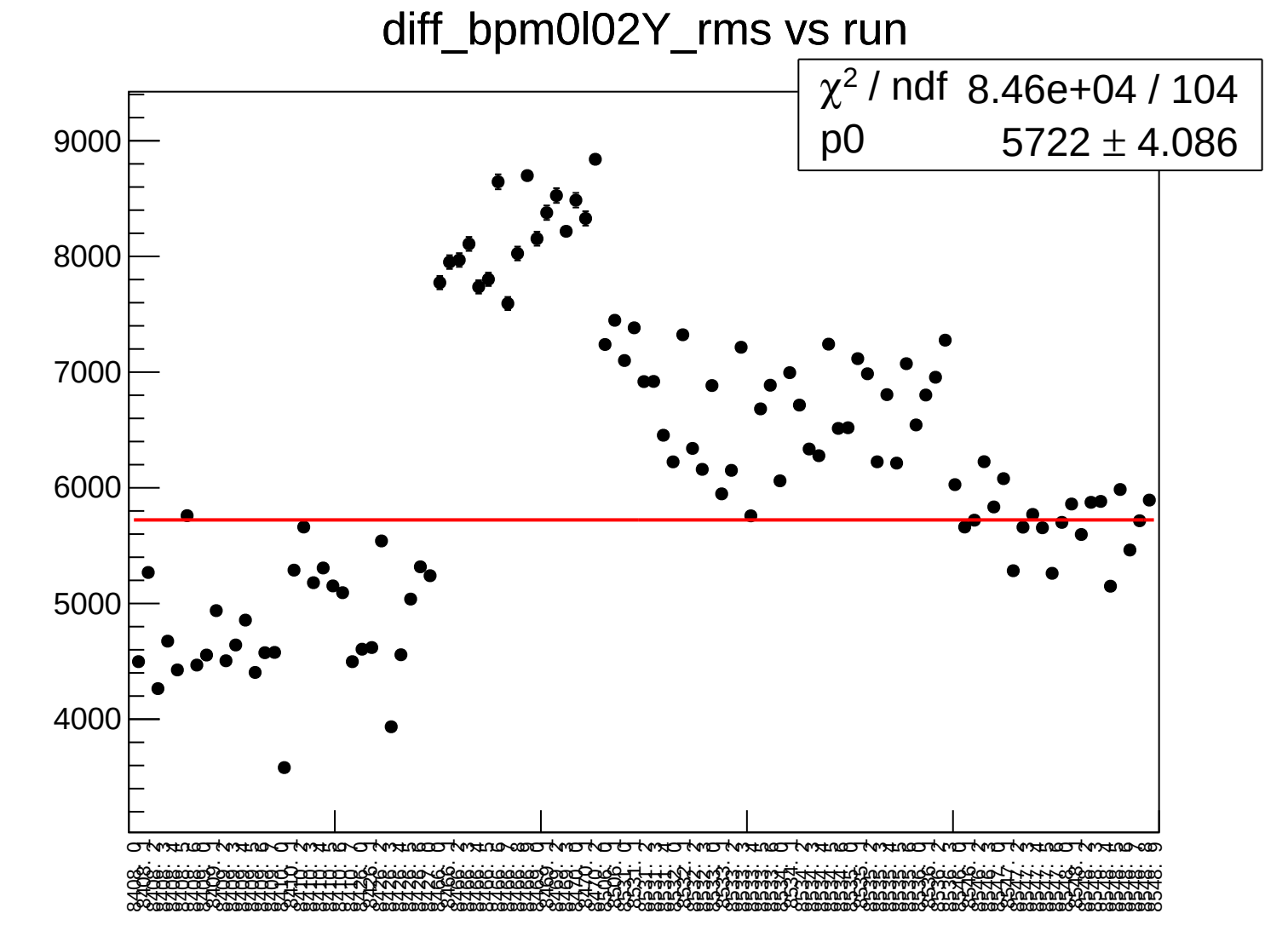

diff_bpm0l02X_mean vs run
χ² / ndf 103.5 / 104
p0 −113.7 ± 11.55
400
200
0
−200
−400
−600
−800
pull
Entries 105
Mean 217.7
Std Dev 0
2
1
0
−1
−2

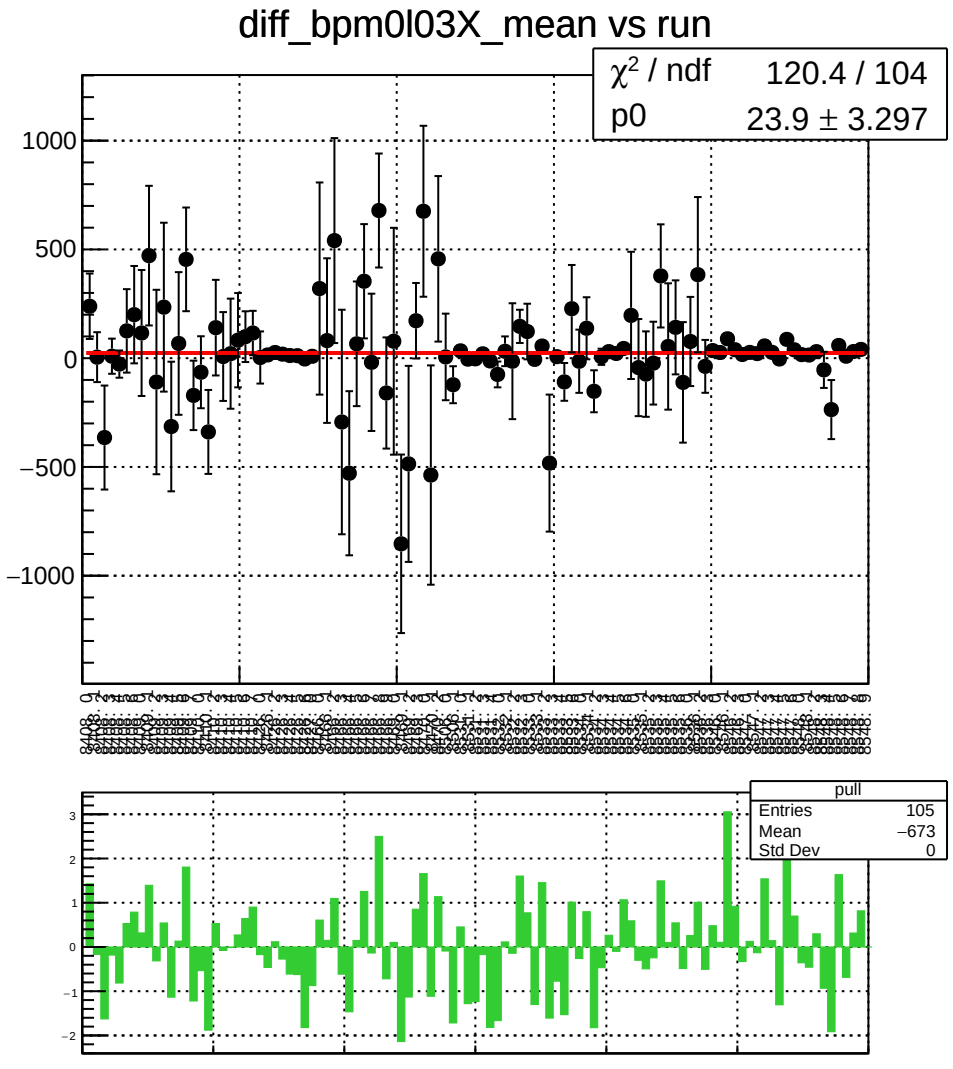

pull1D
Entries 105
Mean −0.02643
Std Dev 0.9927
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

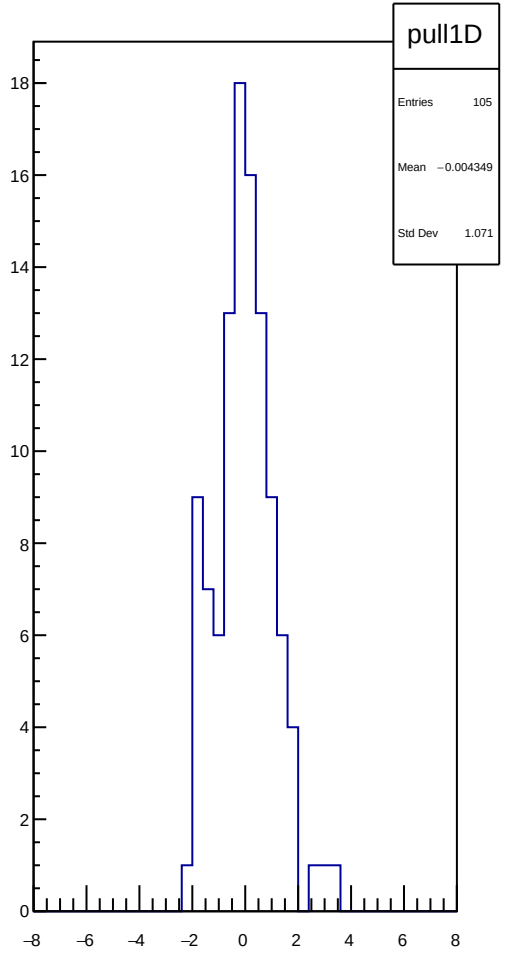

diff_bpm0l02X_rms vs run
χ² / ndf 9.997e+04 / 104
p0 1.14e+04 ± 8.169
26000
24000
22000
20000
18000
16000
14000
12000
10000
8000

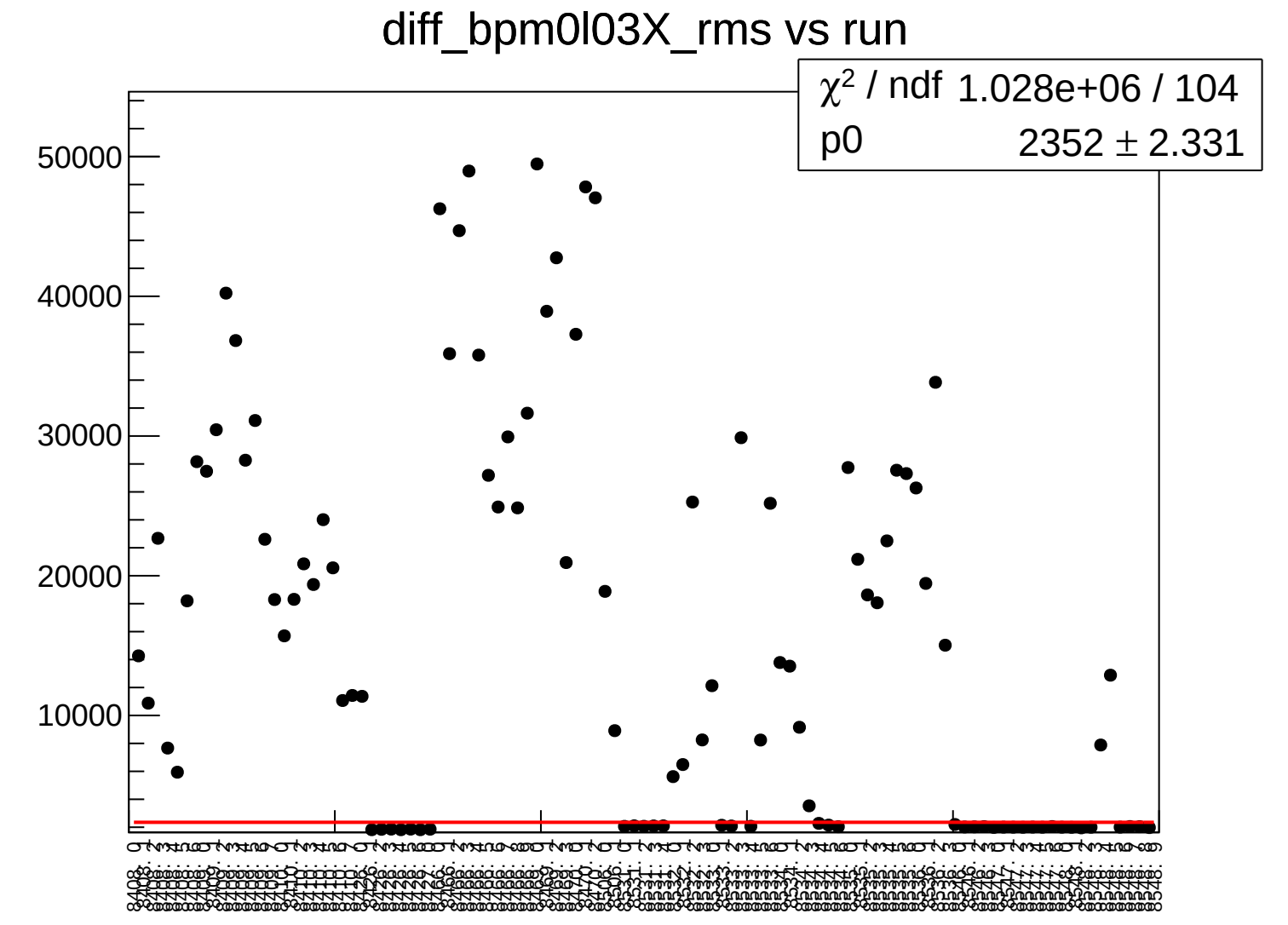

diff_bpm0l02Y_mean vs run
χ^2 / ndf 141.5 / 104
p0 112.6 ± 5.778
400
300
200
100
0
−100
−200
pull
Entries 105
Mean 313.7
Std Dev 0
3
2
1
0
−1
−2
−3

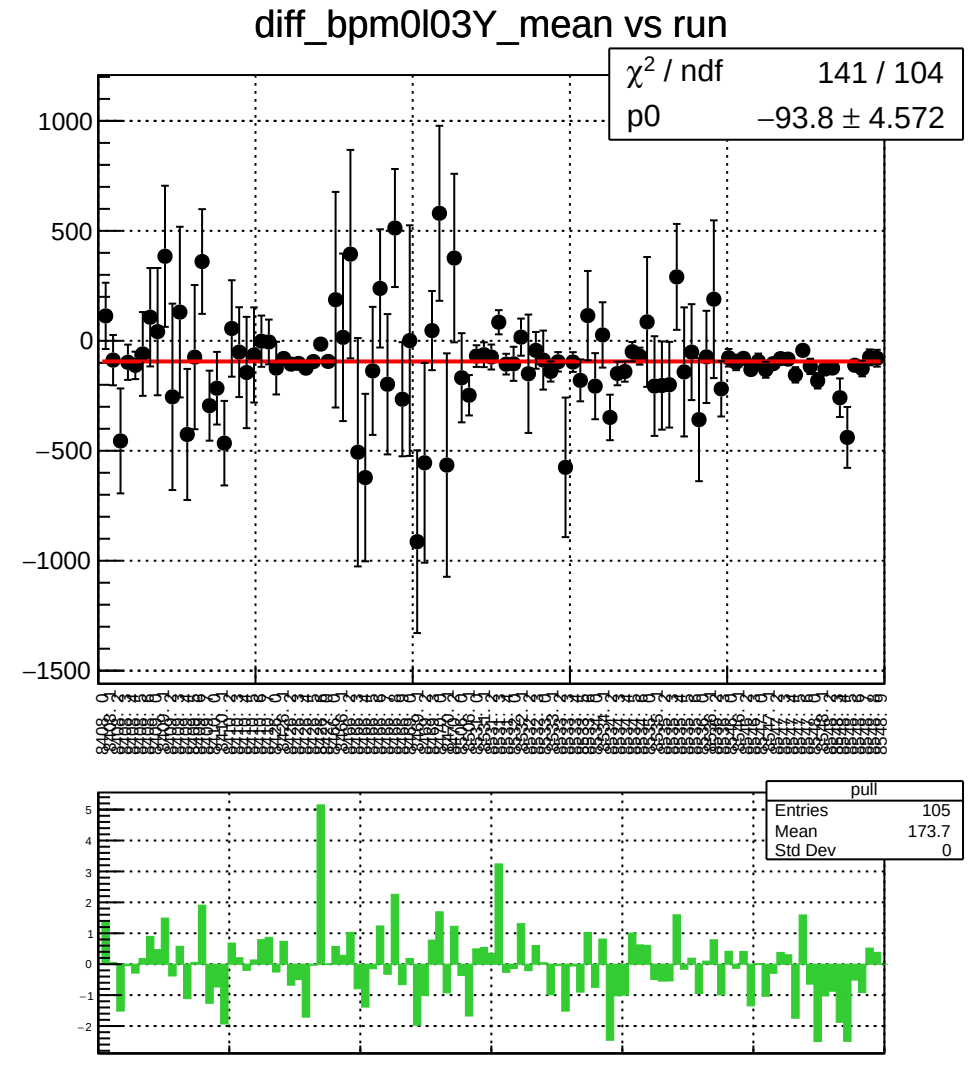

pull1D
Entries 105
Mean 0.0449
Std Dev 1.16
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

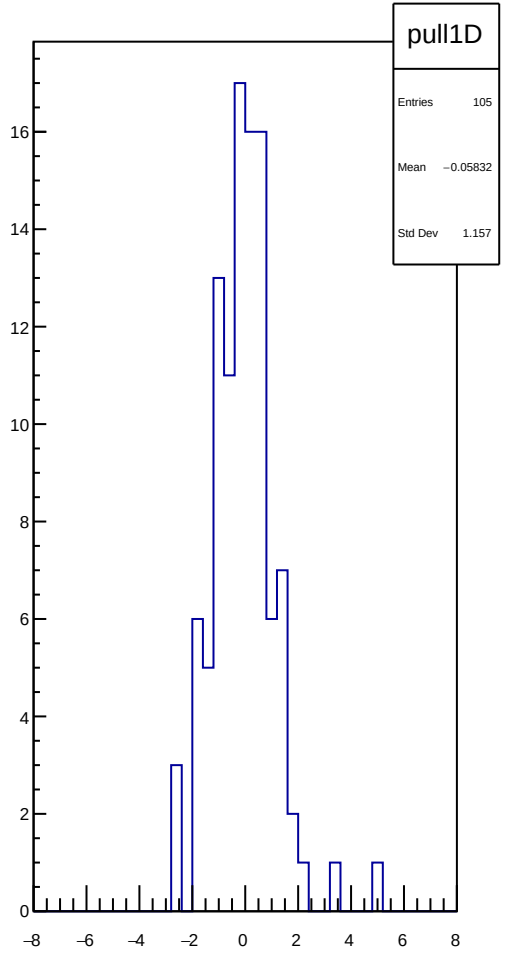

diff_bpm0l02Y_rms vs run
χ² / ndf 8.46e+04 / 104
p0 5722 ± 4.086
9000
8000
7000
6000
5000
4000

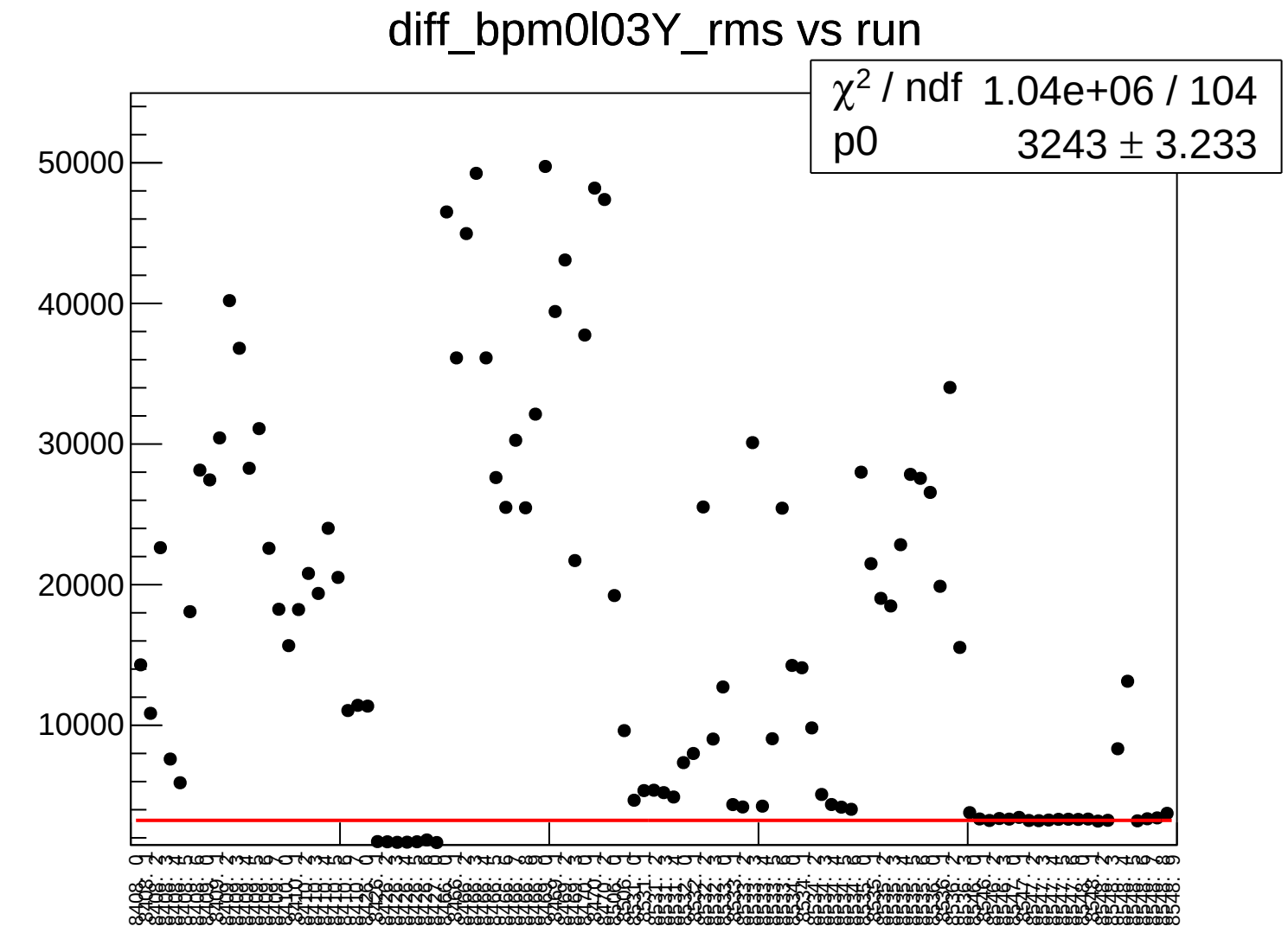

diff_bpm0l03X_mean vs run
χ² / ndf 120.4 / 104
p0 23.9 ± 3.297
1000
500
0
−500
−1000
pull
Entries 105
Mean −673
Std Dev 0
3
2
1
0
−1
−2

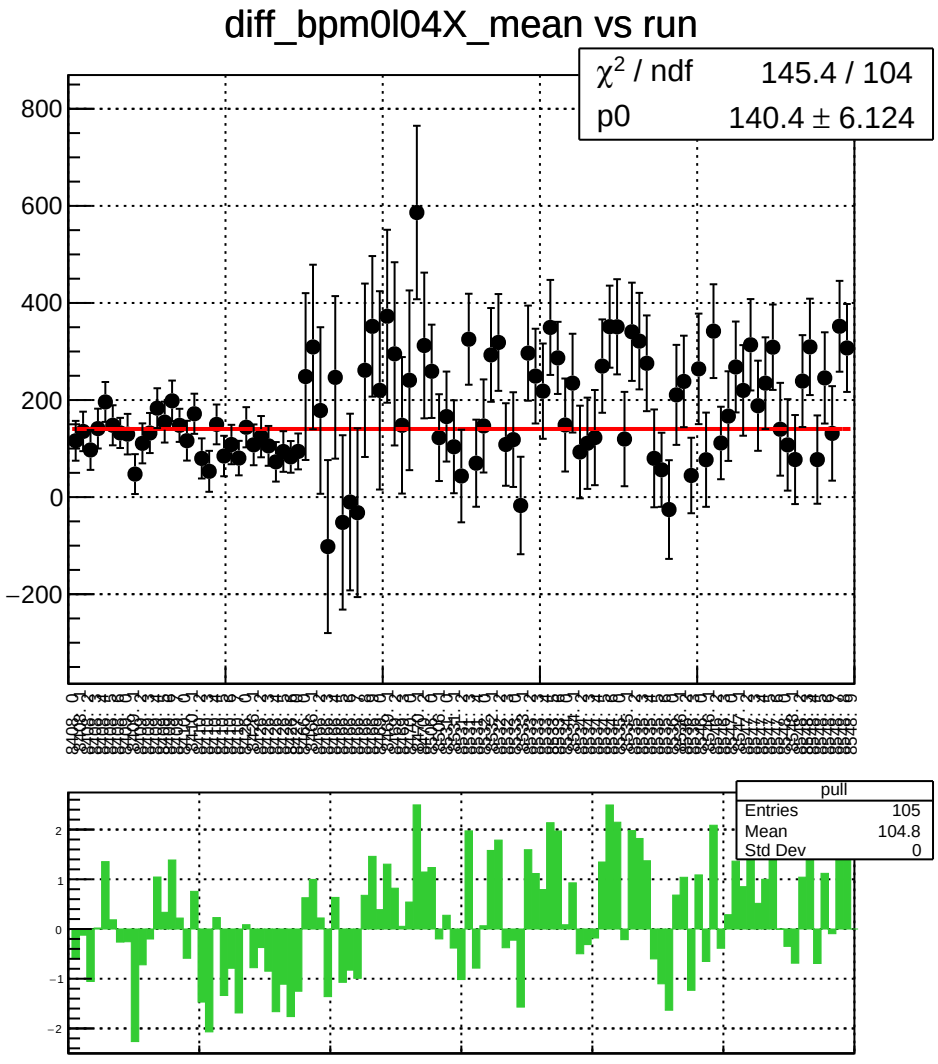

pull1D
Entries 105
Mean −0.004349
Std Dev 1.071
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

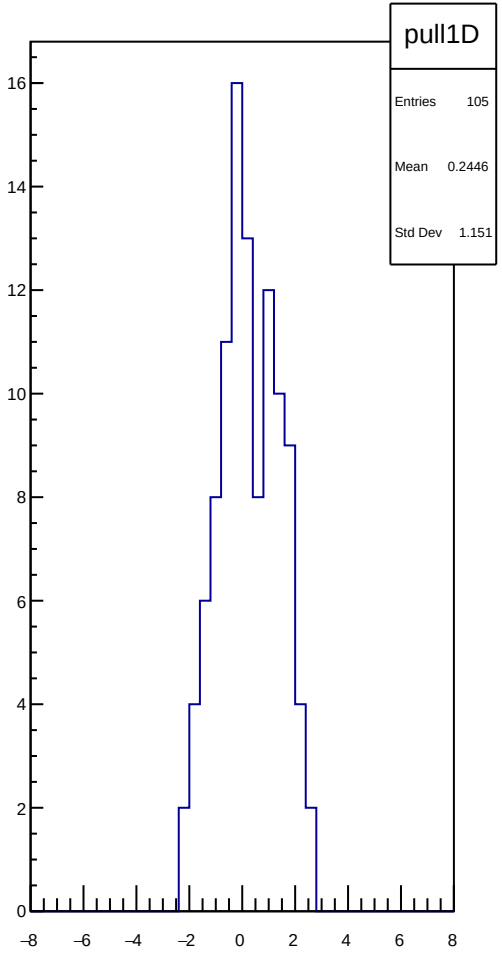

diff_bpm0l03X_rms vs run
χ² / ndf 1.028e+06 / 104
p0 2352 ± 2.331
50000
40000
30000
20000
10000

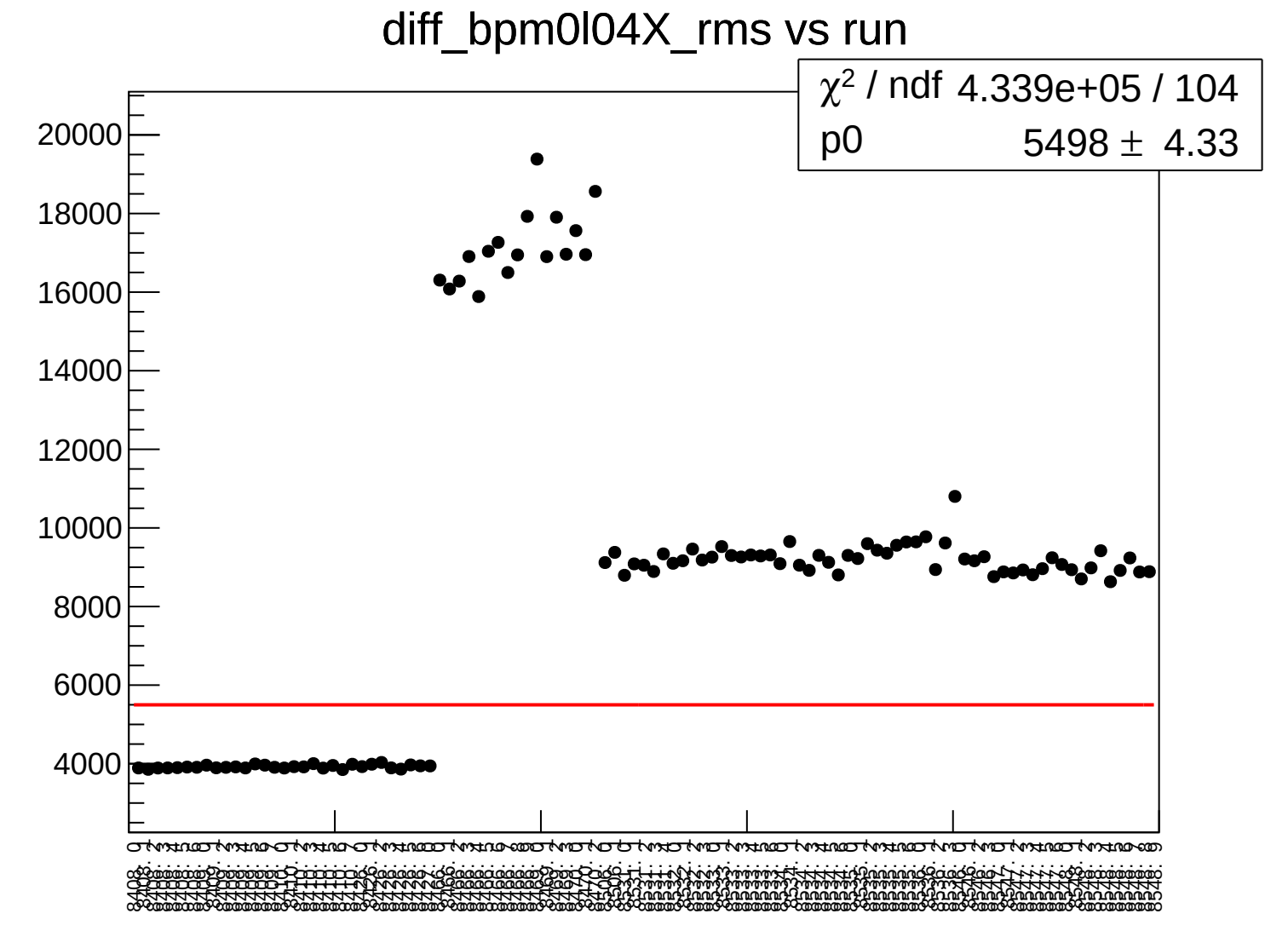

diff_bpm0l03Y_mean vs run
χ² / ndf 141 / 104
p0 −93.8 ± 4.572
1000
500
0
−500
−1000
−1500
pull
Entries 105
Mean 173.7
Std Dev 0
5
4
3
2
1
0
−1
−2

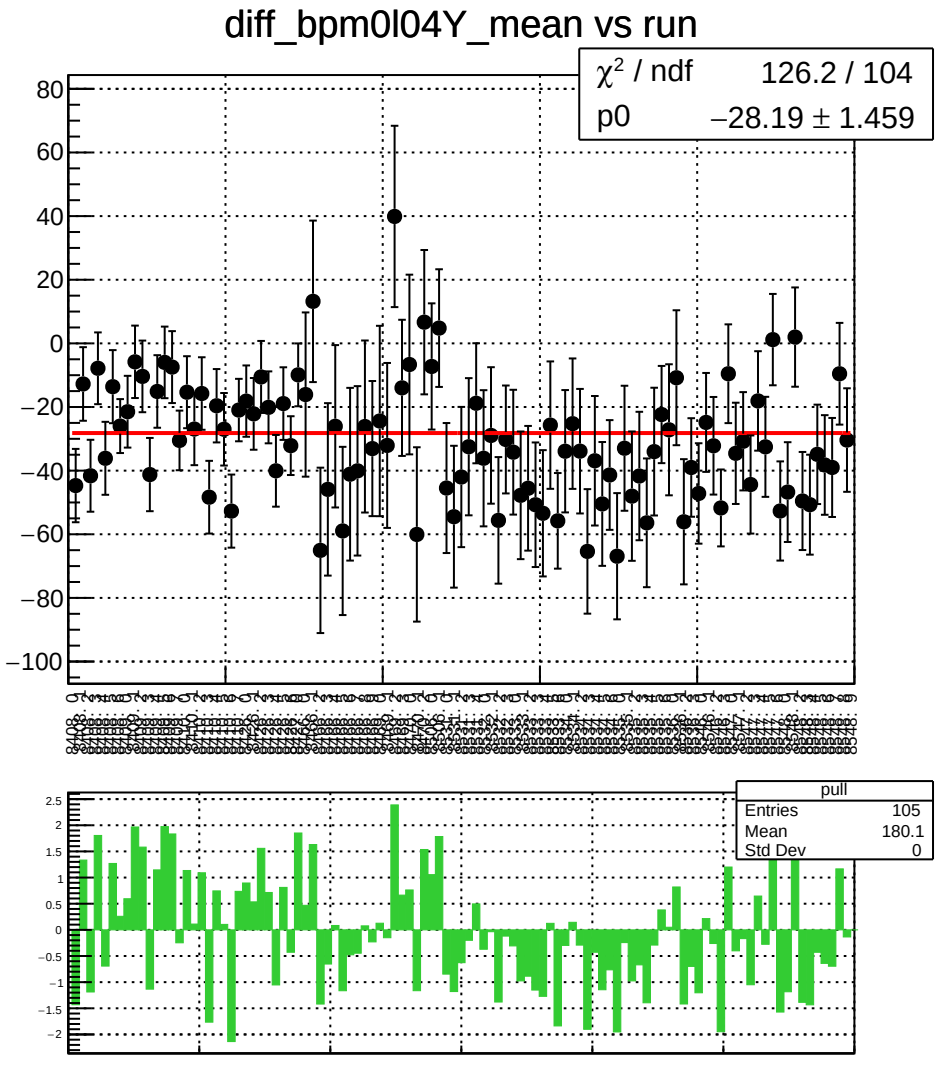

pull1D
Entries 105
Mean −0.05832
Std Dev 1.157
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

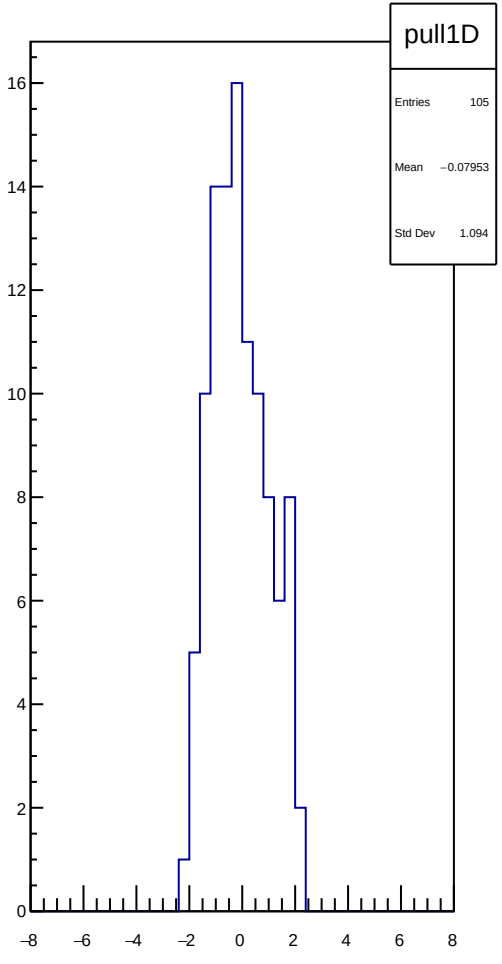

diff_bpm0l03Y_rms vs run
χ² / ndf 1.04e+06 / 104
p0 3243 ± 3.233
50000
40000
30000
20000
10000

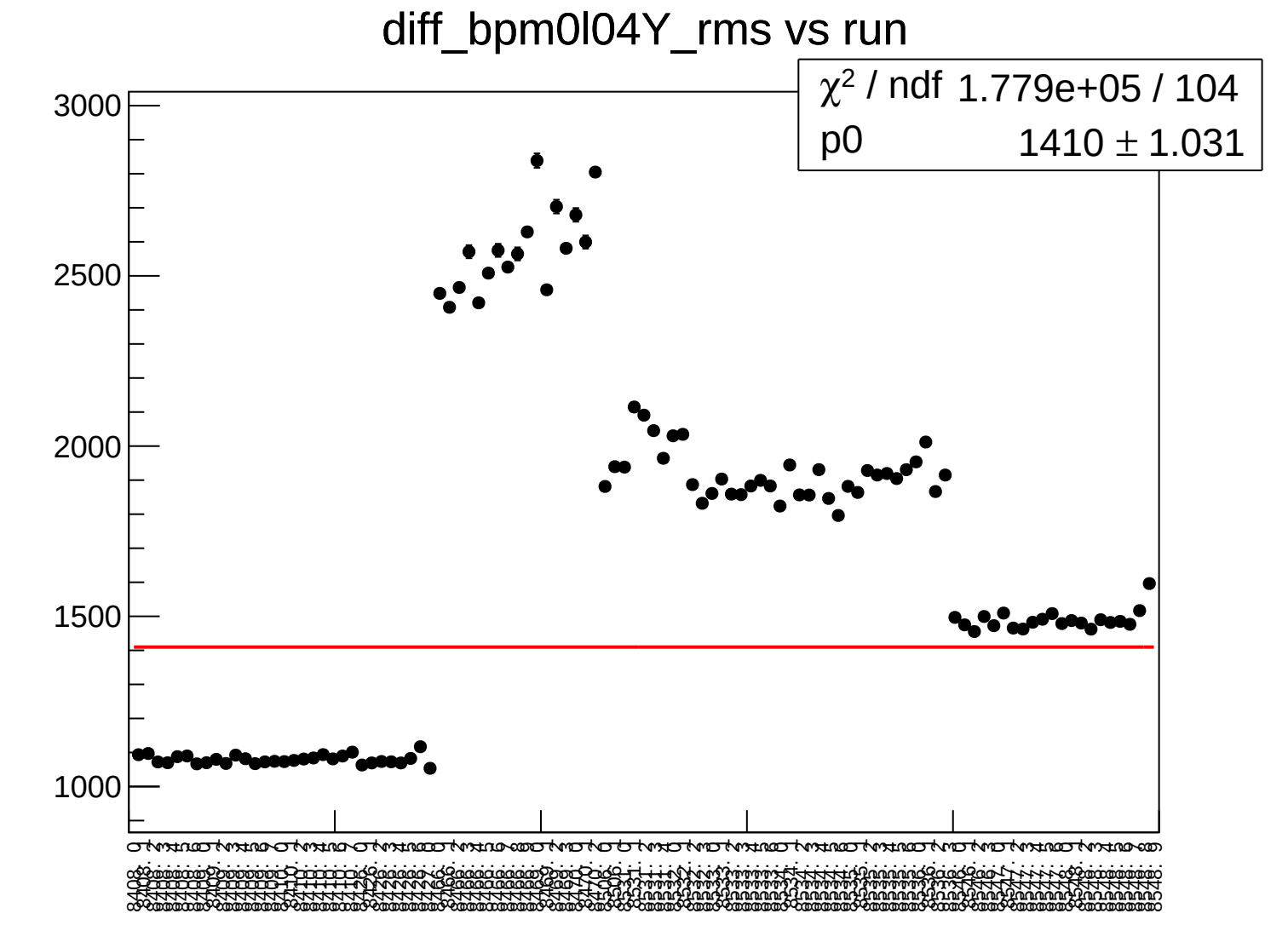

diff_bpm0l04X_mean vs run
χ² / ndf 145.4 / 104
p0 140.4 ± 6.124
800
600
400
200
0
−200
pull
Entries 105
Mean 104.8
Std Dev 0
2
1
0
−1
−2

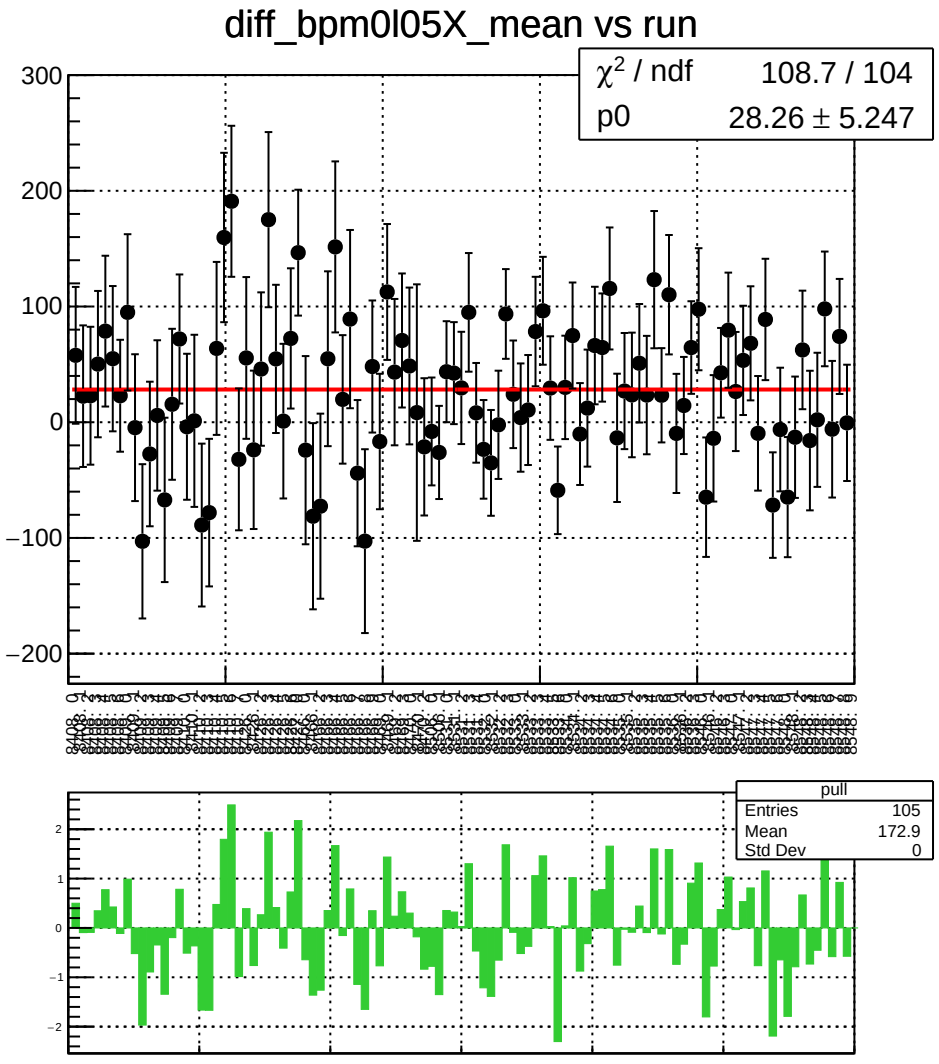

pull1D
Entries 105
Mean 0.2446
Std Dev 1.151
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

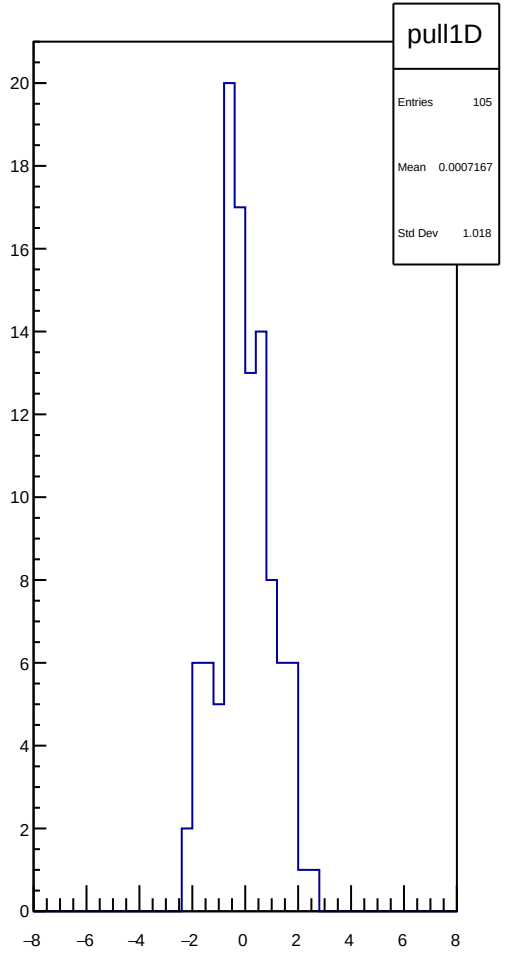

diff_bpm0l04X_rms vs run
χ² / ndf 4.339e+05 / 104
p0 5498 ± 4.33
20000
18000
16000
14000
12000
10000
8000
6000
4000


diff_bpm0l04Y_mean vs run
χ² / ndf 126.2 / 104
p0 −28.19 ± 1.459
pull
Entries 105
Mean 180.1
Std Dev 0


pull1D
Entries 105
Mean −0.07953
Std Dev 1.094


diff_bpm0l04Y_rms vs run
χ² / ndf 1.779e+05 / 104
p0 1410 ± 1.031
3000
2500
2000
1500
1000


diff_bpm0l05X_mean vs run
χ² / ndf 108.7 / 104
p0 28.26 ± 5.247
300
200
100
0
−100
−200
pull
Entries 105
Mean 172.9
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 105
Mean 0.0007167
Std Dev 1.018
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
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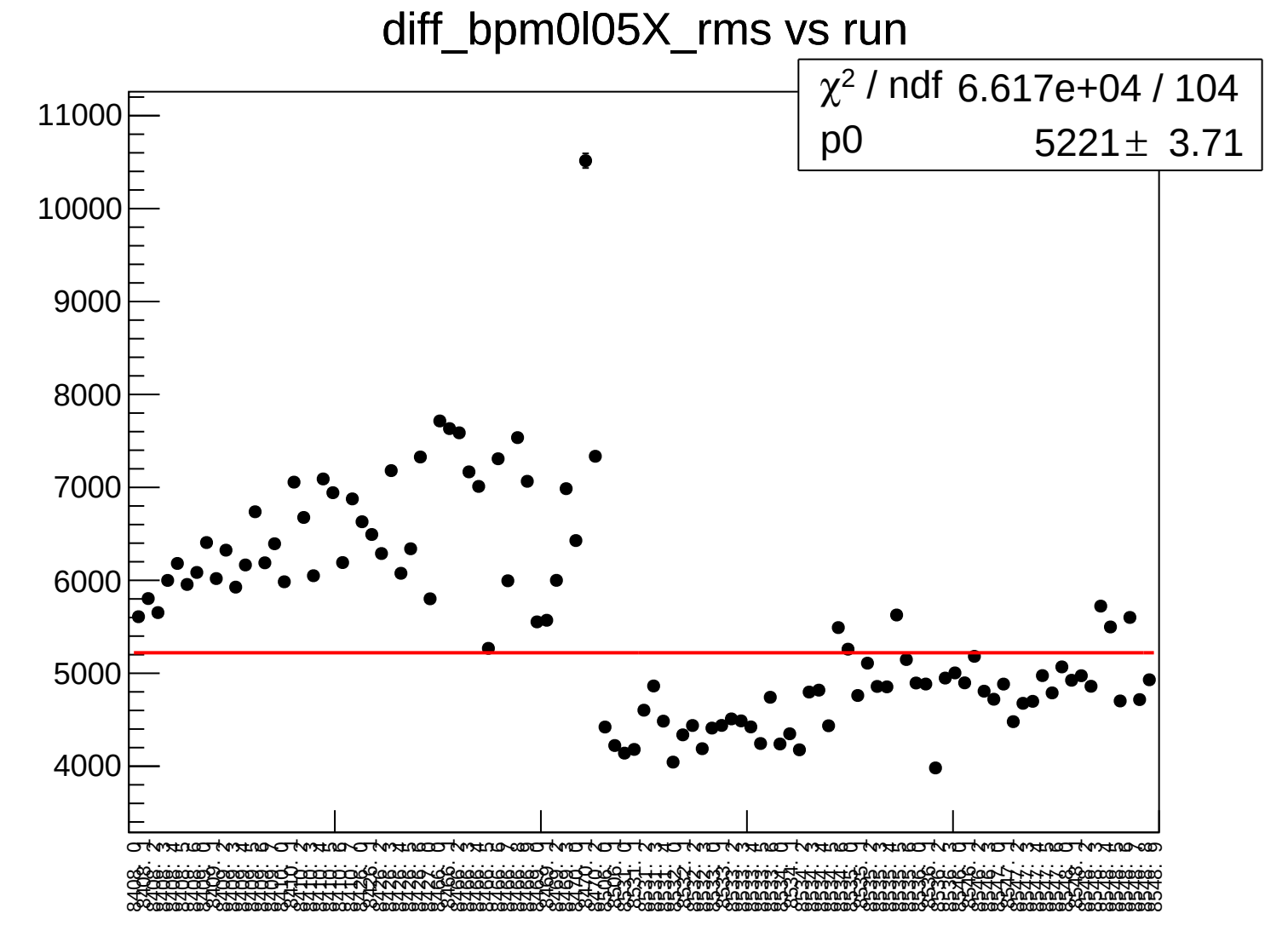
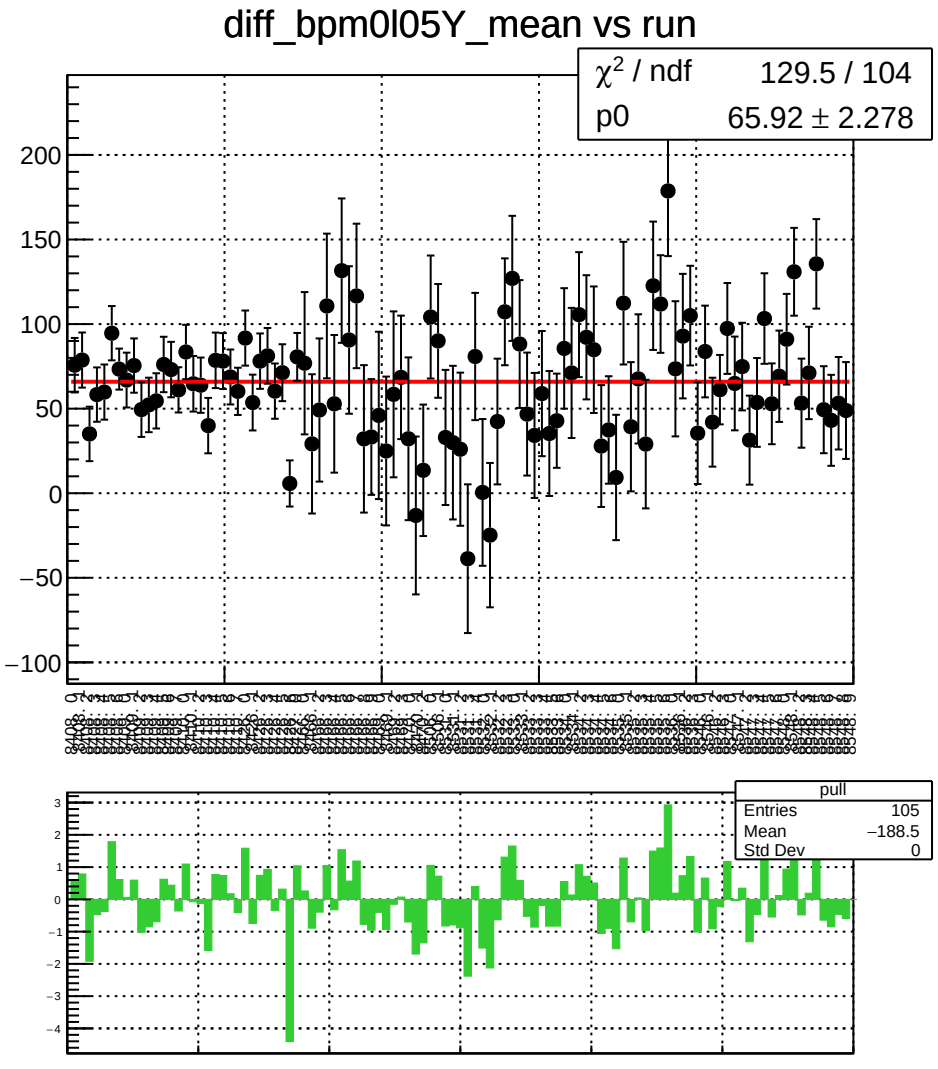
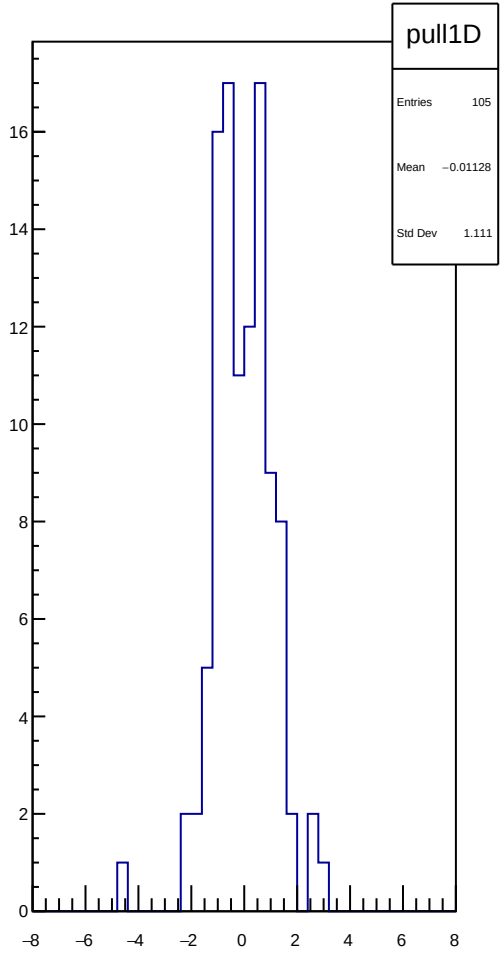
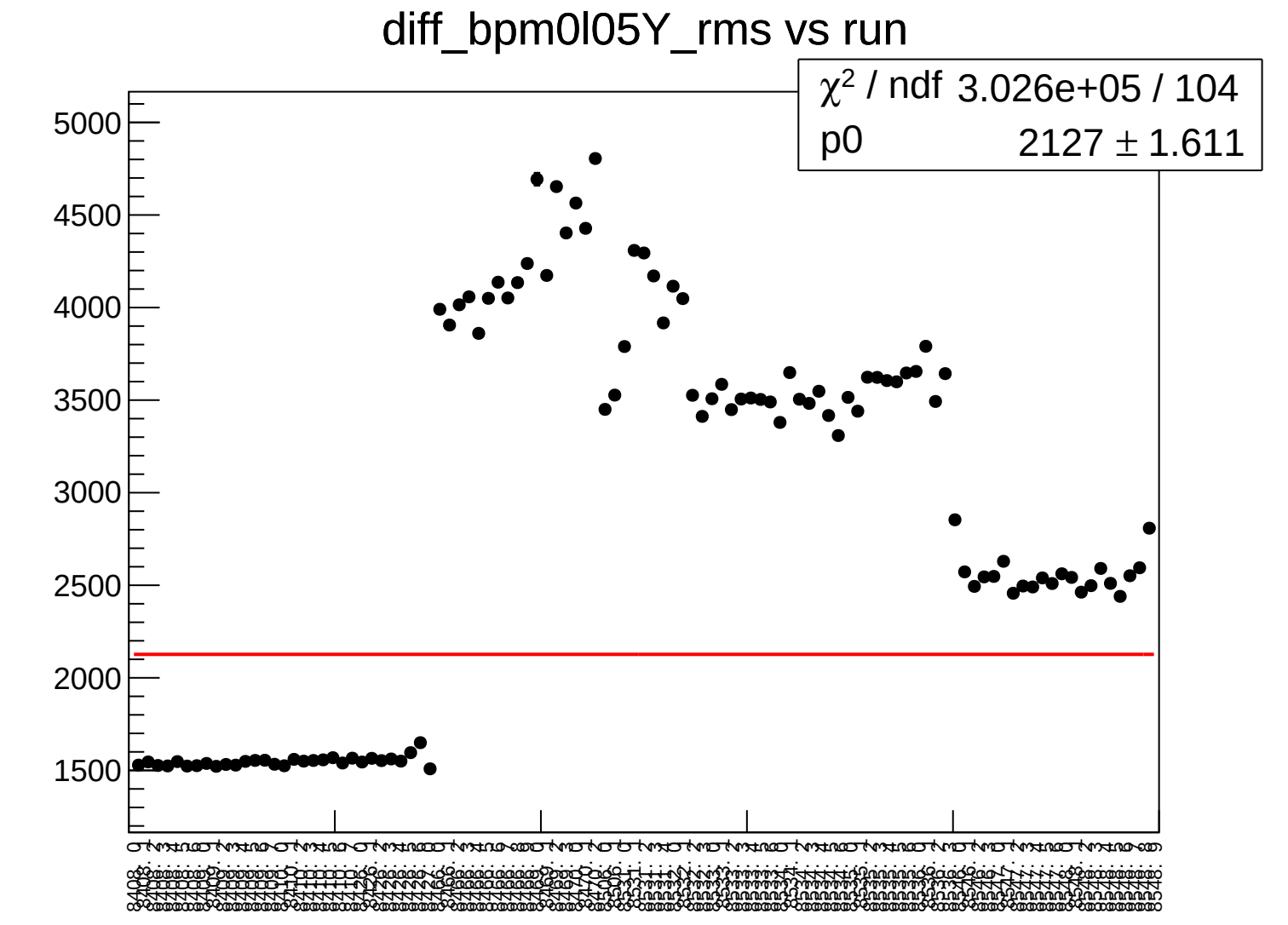
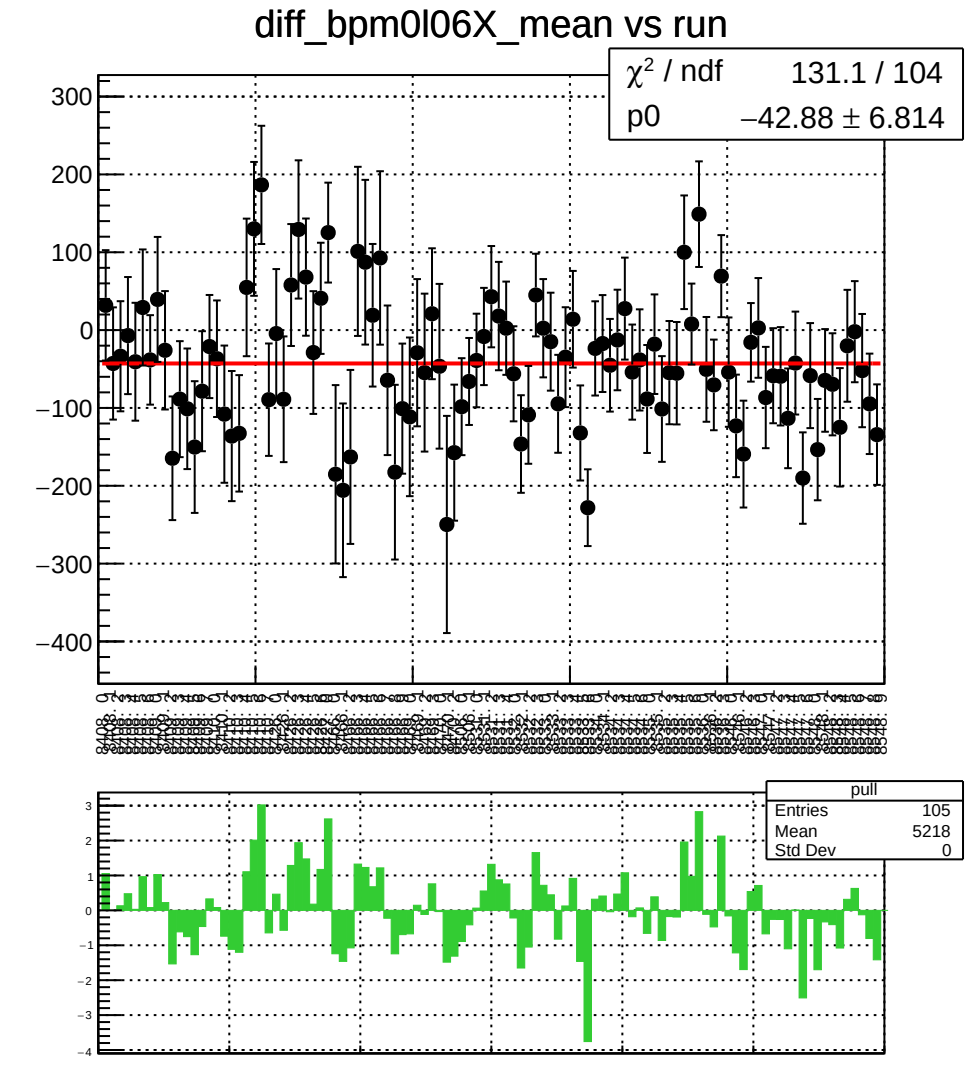
0
2
4
6
8

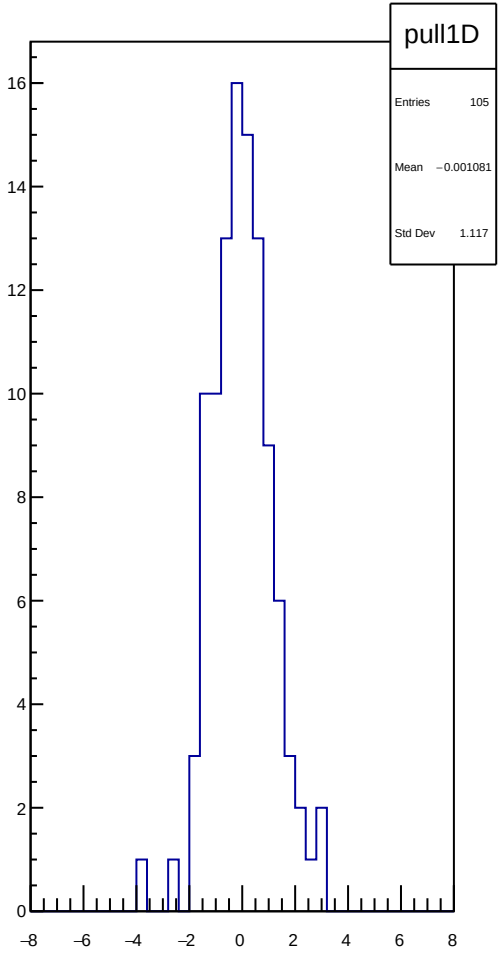

diff_bpm0l05X_rms vs run
χ² / ndf 6.617e+04 / 104
p0 5221 ± 3.71
11000
10000
9000
8000
7000
6000
5000
4000

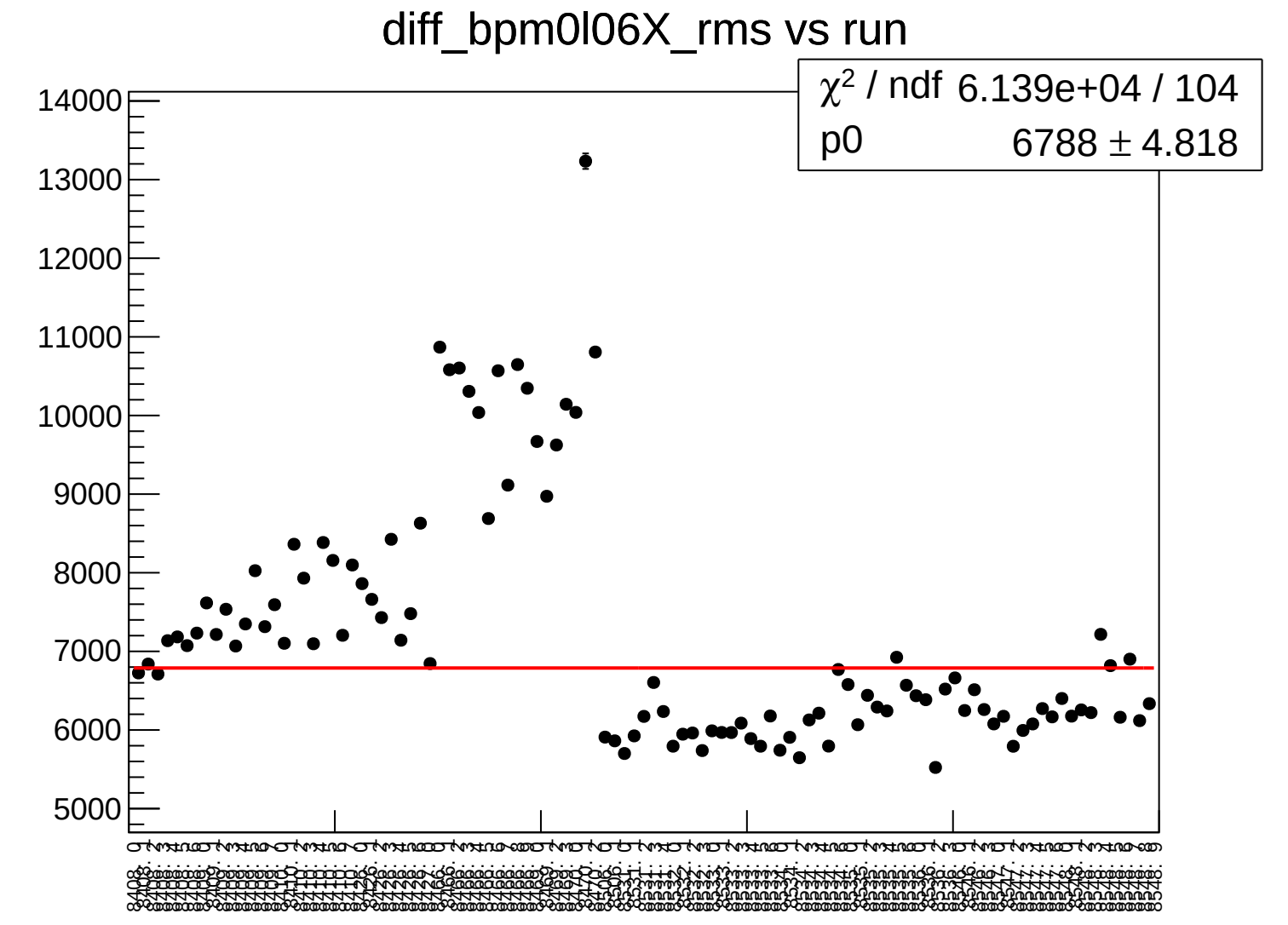

diff_bpm0l05Y_mean vs run
χ² / ndf 129.5 / 104
p0 65.92 ± 2.278
200
150
100
50
0
−50
−100
pull
Entries 105
Mean −188.5
Std Dev 0
3
2
1
0
−1
−2
−3
−4

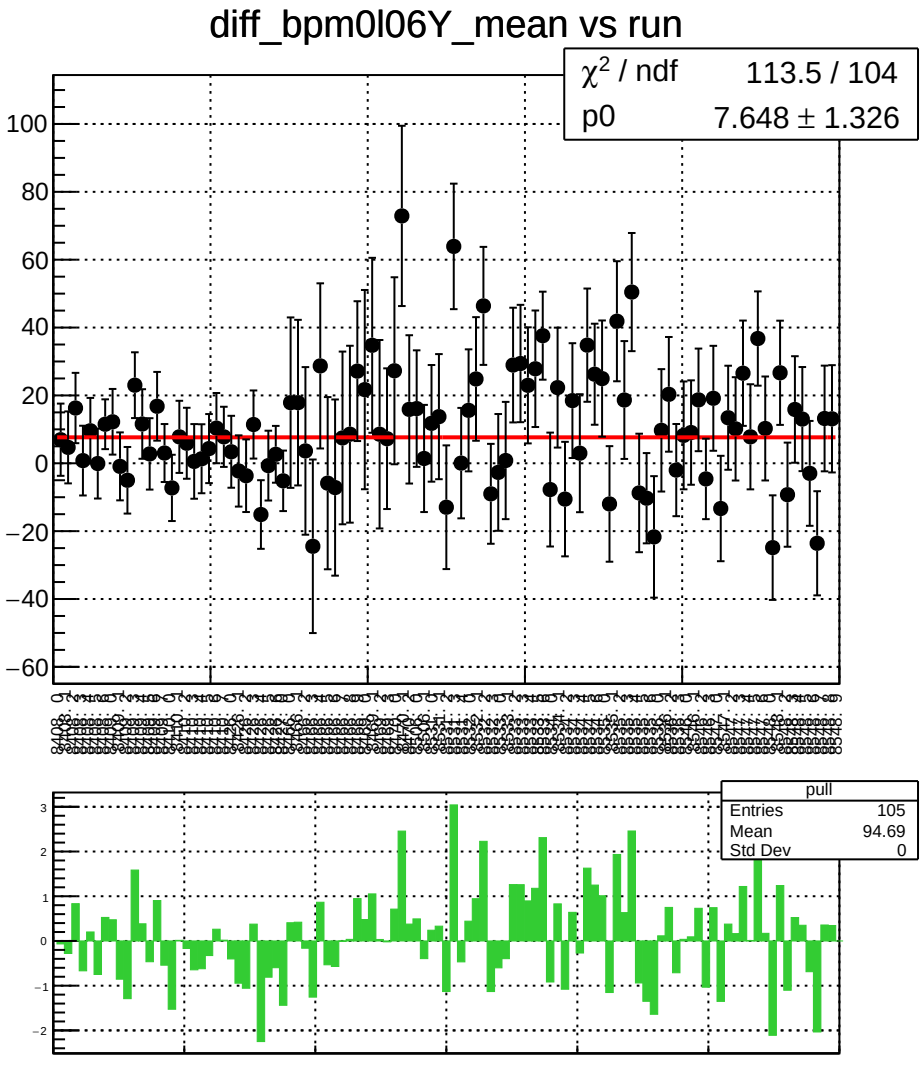

pull1D
Entries 105
Mean −0.01128
Std Dev 1.111
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

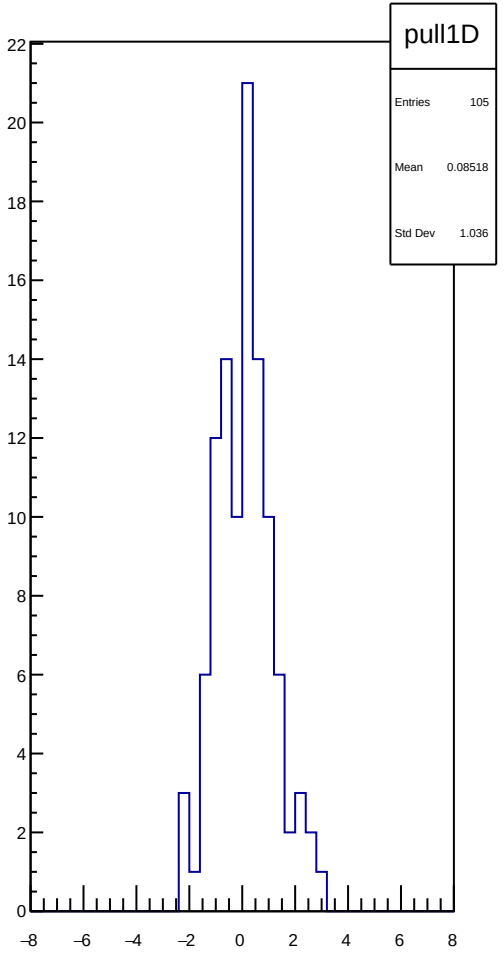

diff_bpm0l05Y_rms vs run
χ^2 / ndf 3.026e+05 / 104
p0 2127 ± 1.611
5000
4500
4000
3500
3000
2500
2000
1500

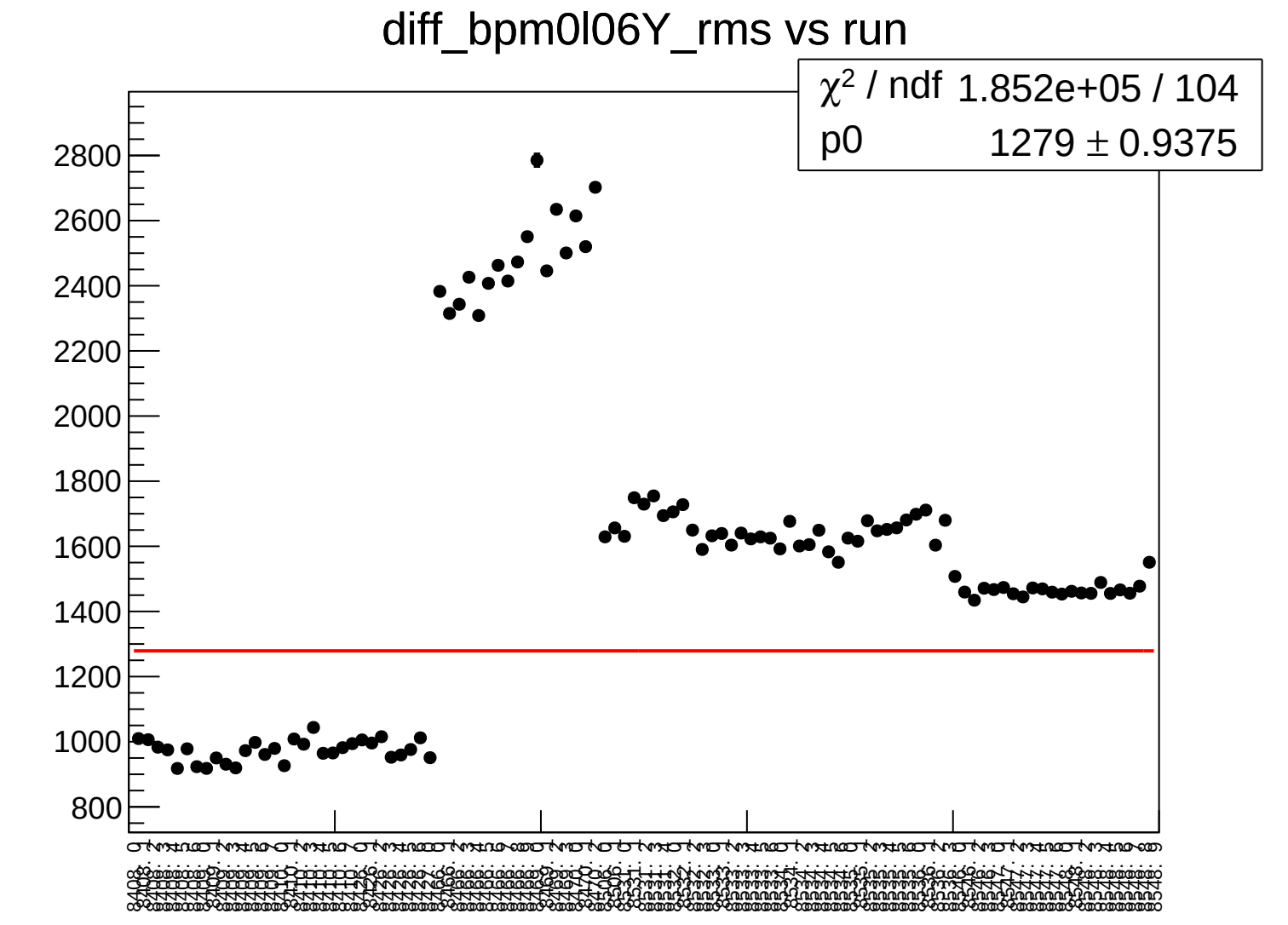

diff_bpm0l06X_mean vs run
χ² / ndf 131.1 / 104
p0 −42.88 ± 6.814
300
200
100
0
−100
−200
−300
−400
pull
Entries 105
Mean 5218
Std Dev 0
3
2
1
0
−1
−2
−3
−4

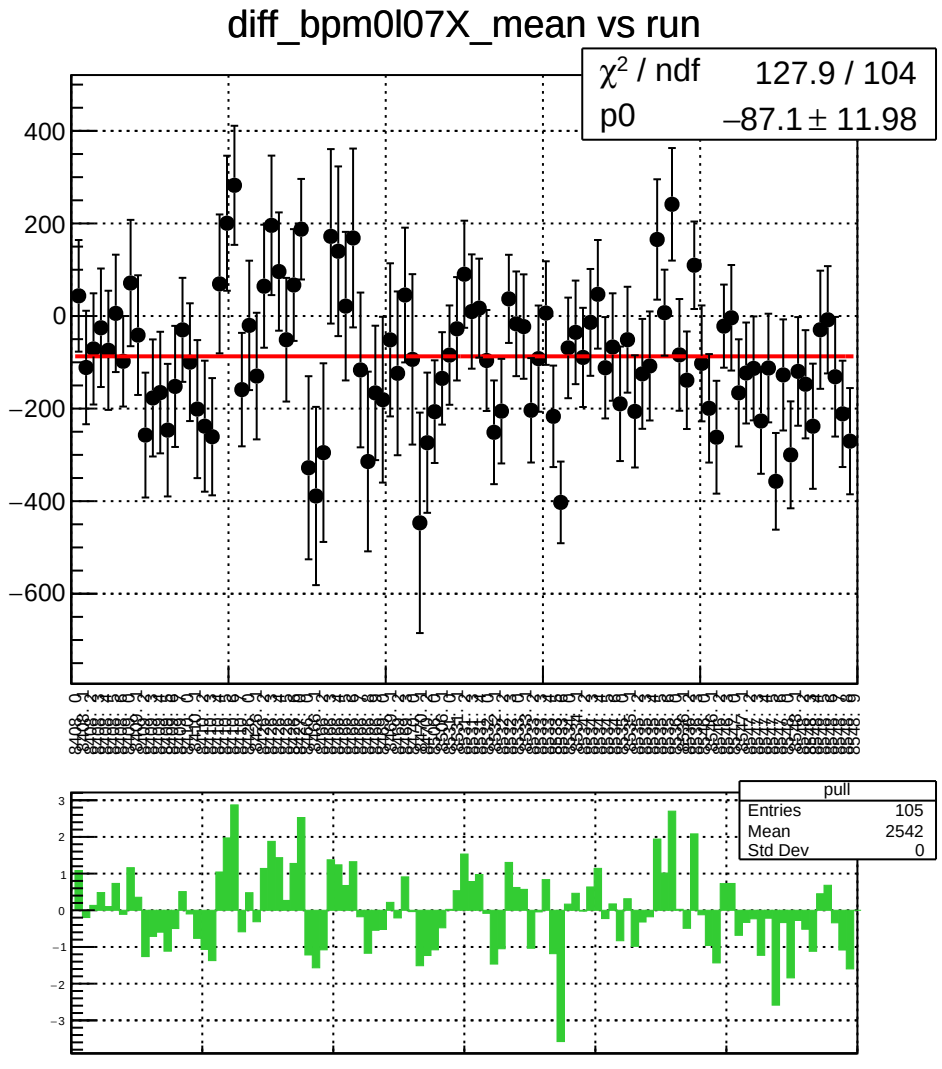

pull1D
Entries 105
Mean −0.001081
Std Dev 1.117
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

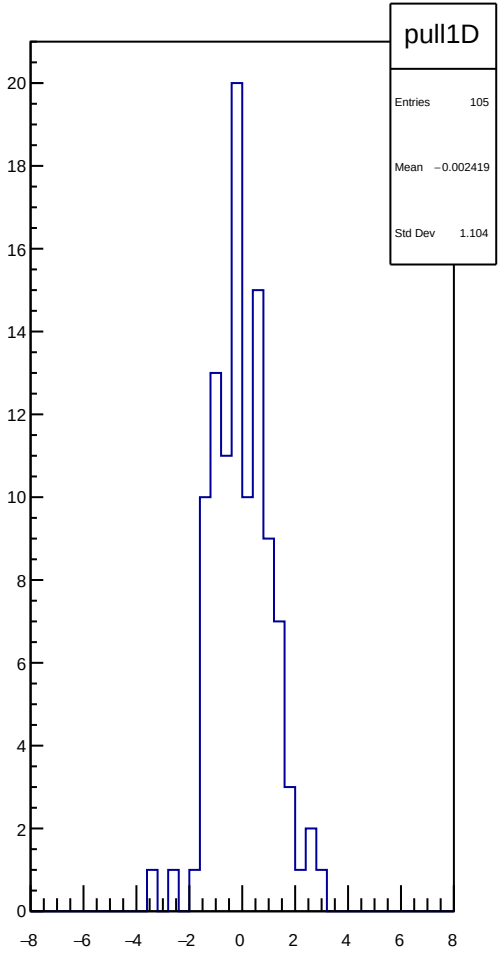

diff_bpm0l06X_rms vs run
χ² / ndf 6.139e+04 / 104
p0 6788 ± 4.818
14000
13000
12000
11000
10000
9000
8000
7000
6000
5000

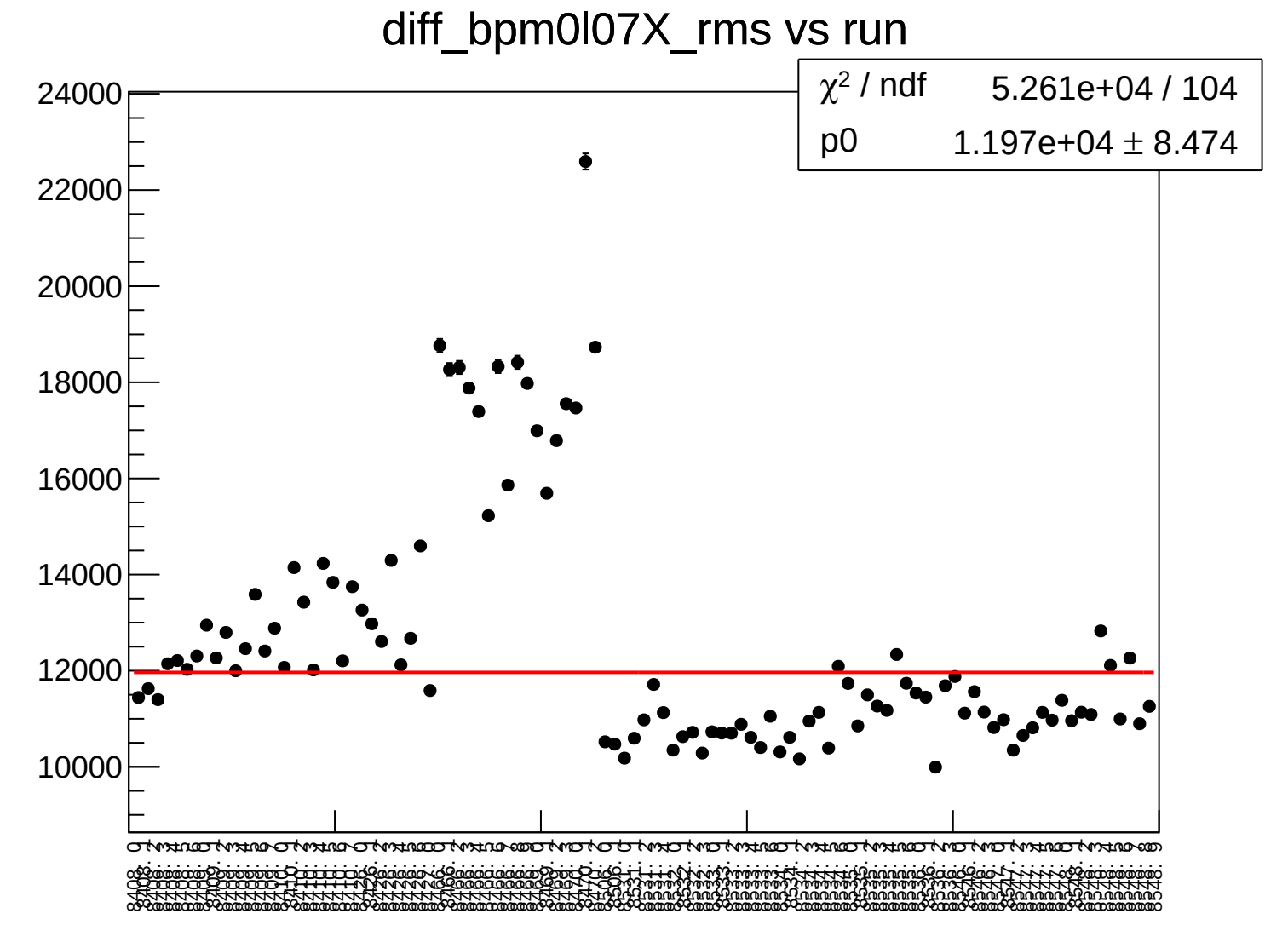

diff_bpm0l06Y_mean vs run
χ² / ndf 113.5 / 104
p0 7.648 ± 1.326
pull
Entries 105
Mean 94.69
Std Dev 0

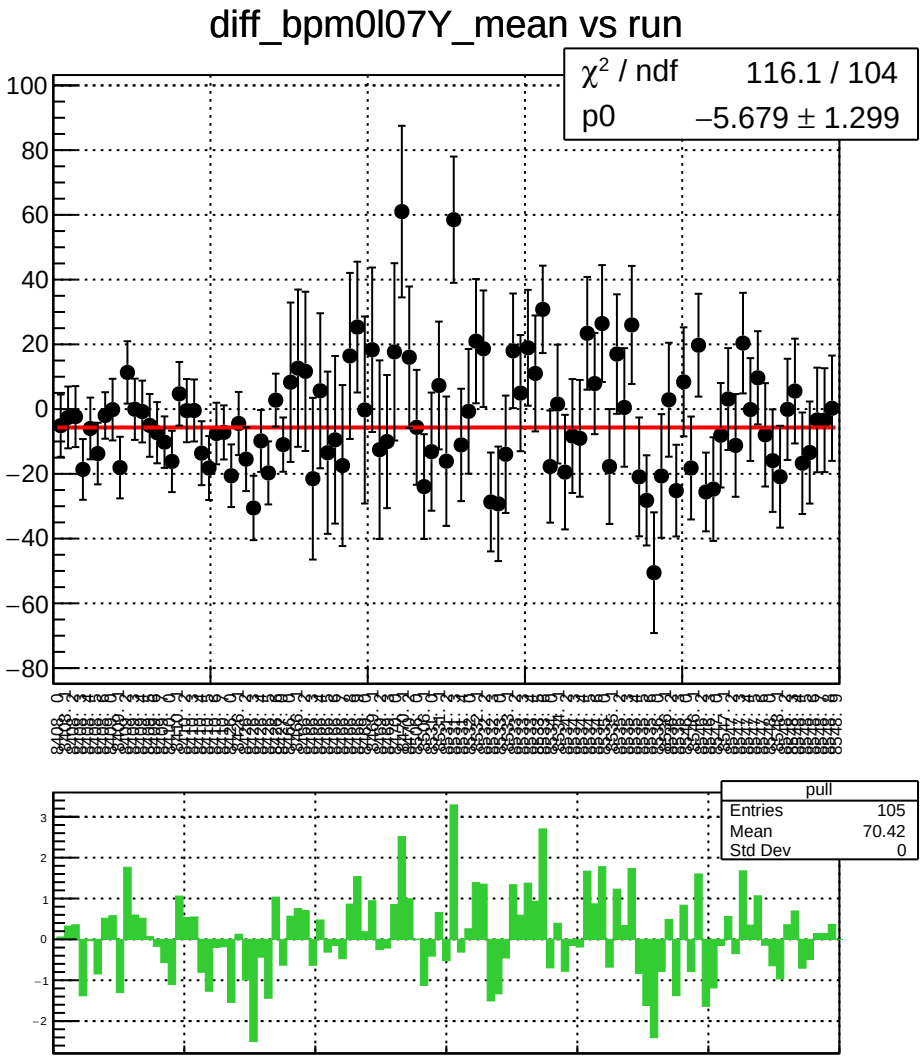

pull1D
Entries 105
Mean 0.08518
Std Dev 1.036

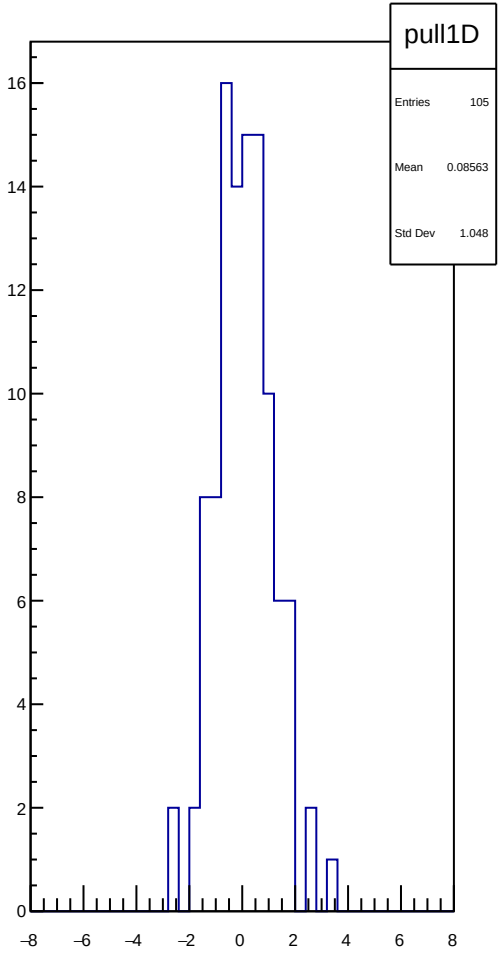

diff_bpm0l06Y_rms vs run
χ² / ndf 1.852e+05 / 104
p0 1279 ± 0.9375
2800
2600
2400
2200
2000
1800
1600
1400
1200
1000
800

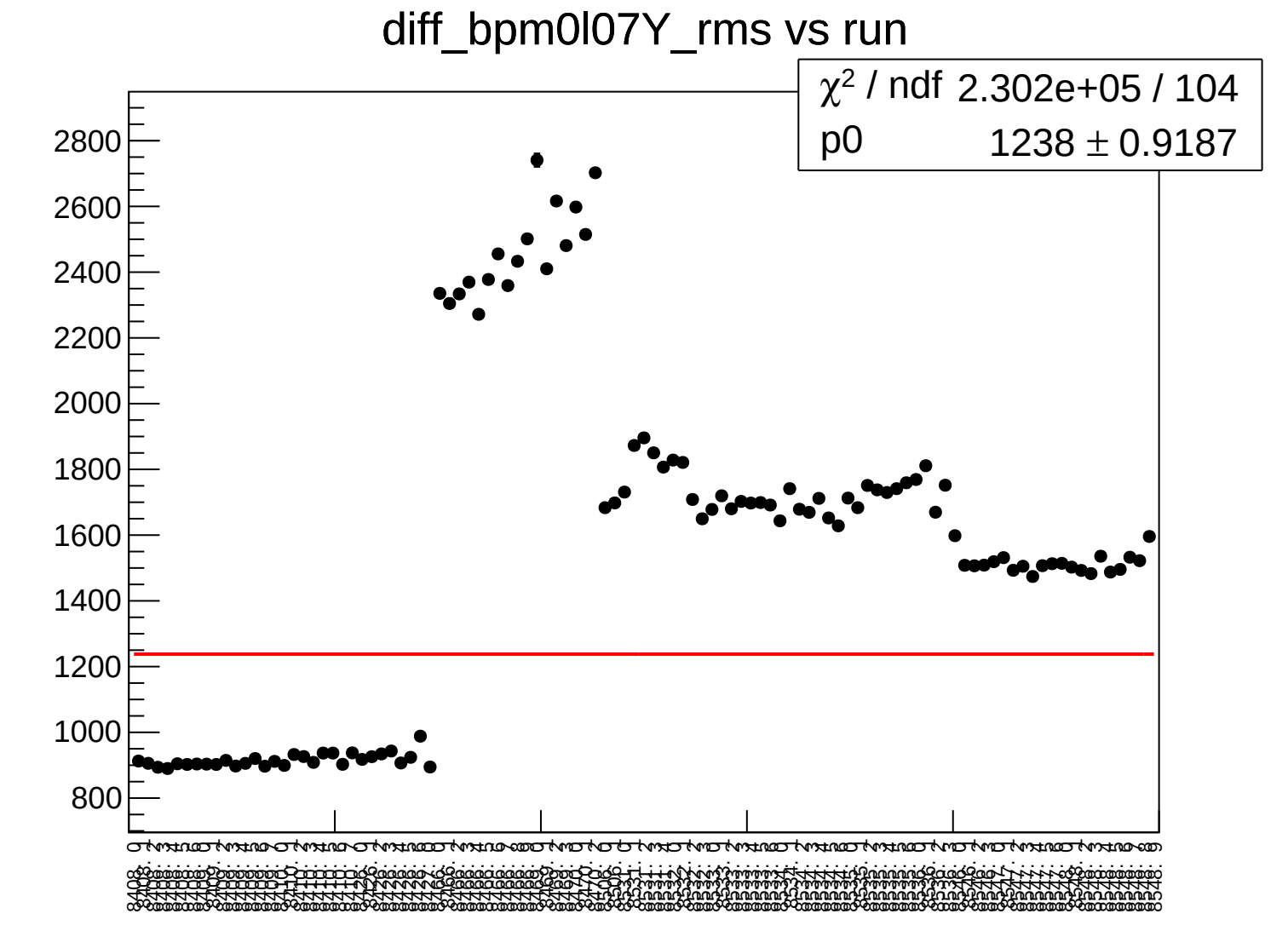

diff_bpm0l07X_mean vs run
χ² / ndf 127.9 / 104
p0 −87.1 ± 11.98
400
200
0
−200
−400
−600
pull
Entries 105
Mean 2542
Std Dev 0
3
2
1
0
−1
−2
−3

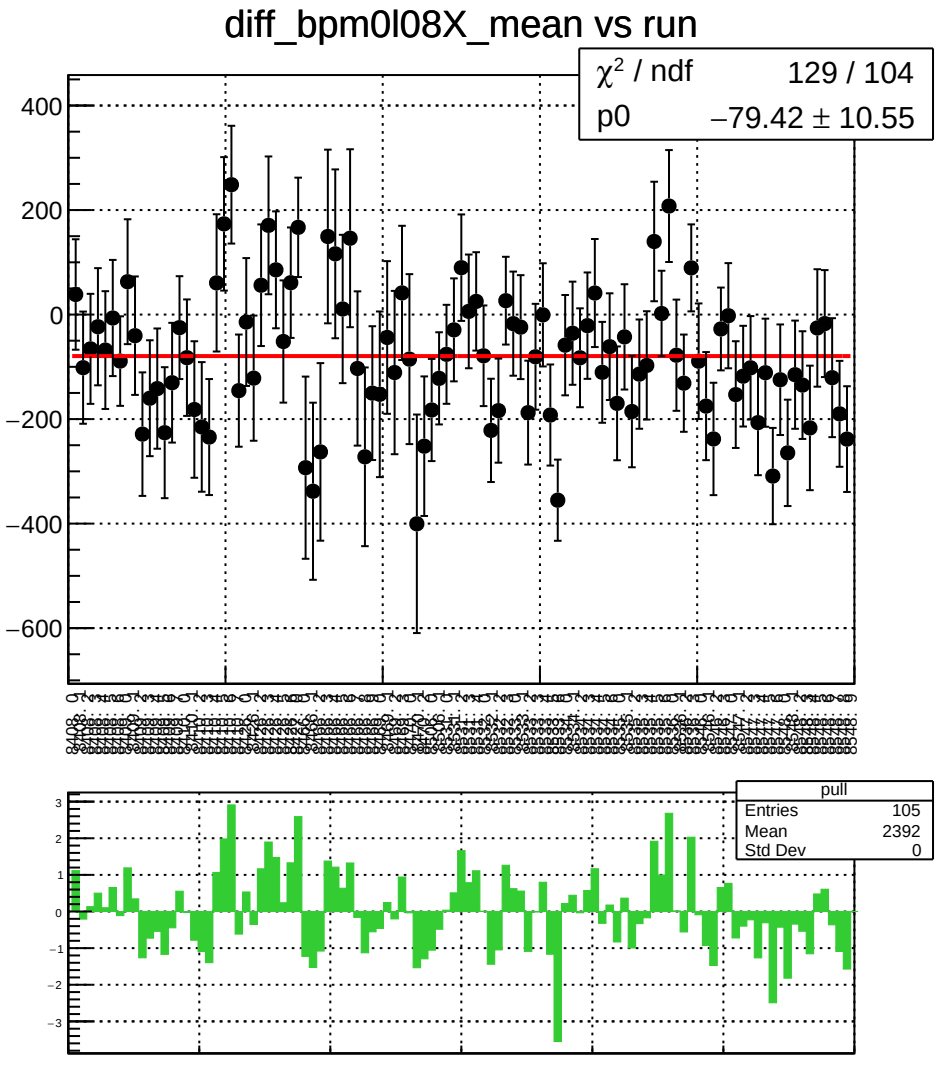

pull1D
Entries 105
Mean −0.002419
Std Dev 1.104
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

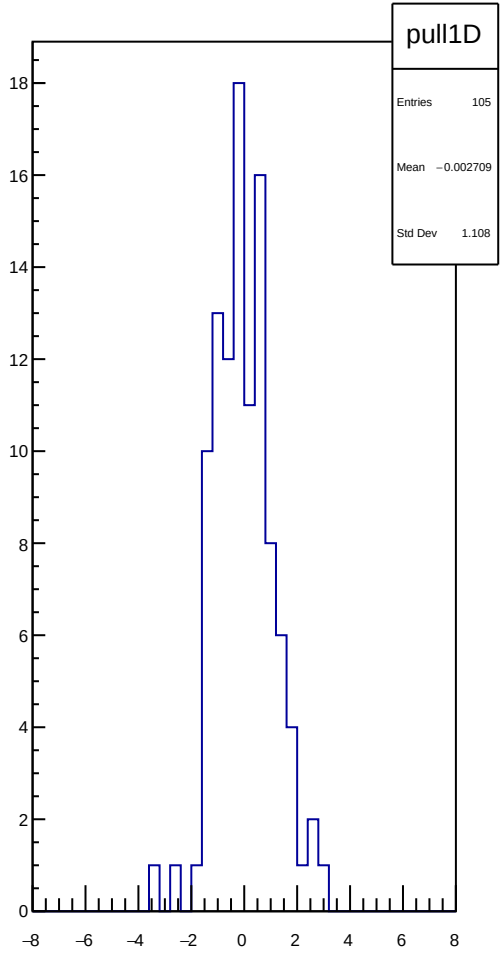

diff_bpm0l07X_rms vs run
χ² / ndf 5.261e+04 / 104
p0 1.197e+04 ± 8.474
24000
22000
20000
18000
16000
14000
12000
10000

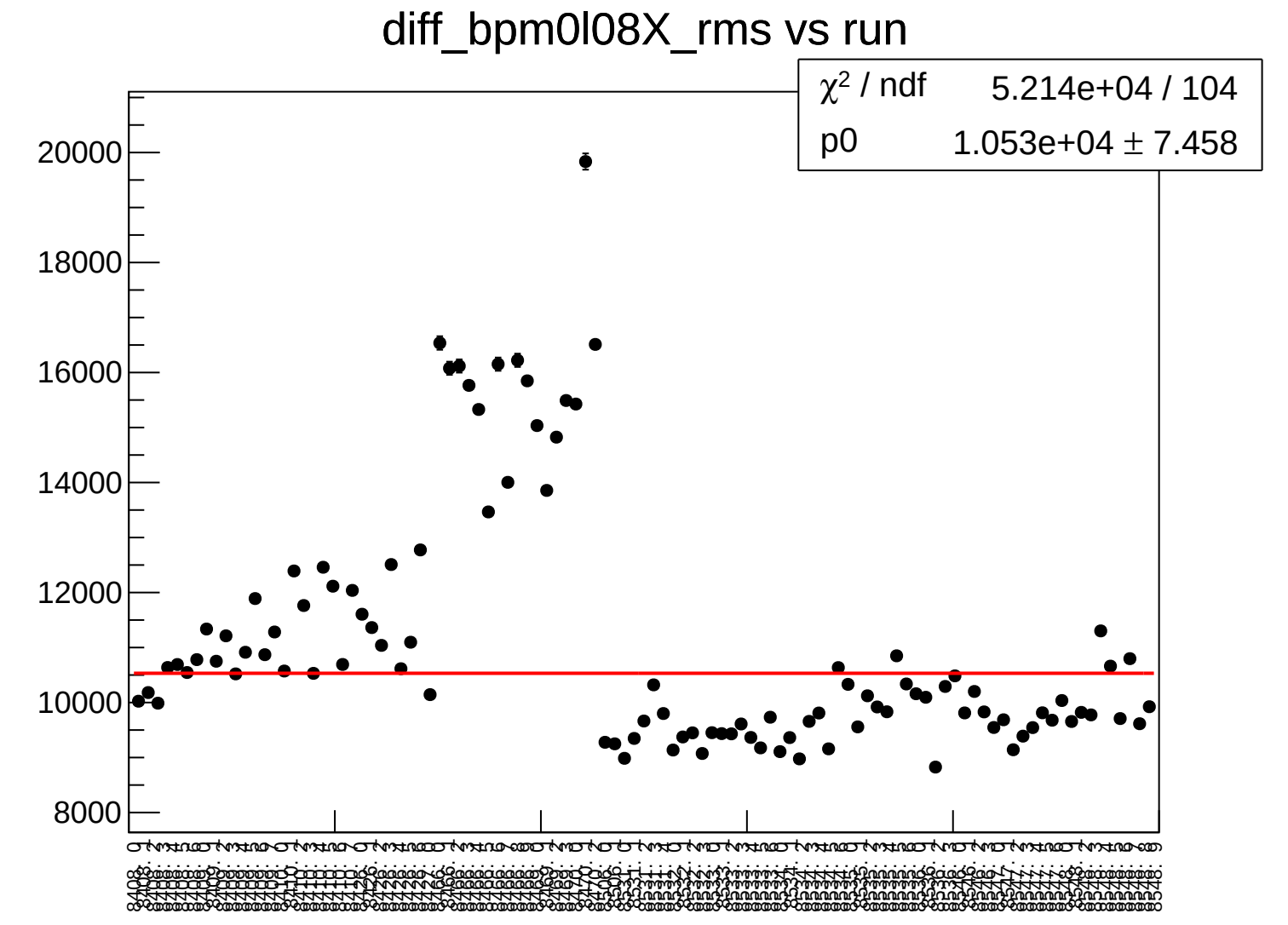

diff_bpm0l07Y_mean vs run
χ² / ndf 116.1 / 104
p0 −5.679 ± 1.299
pull
Entries 105
Mean 70.42
Std Dev 0

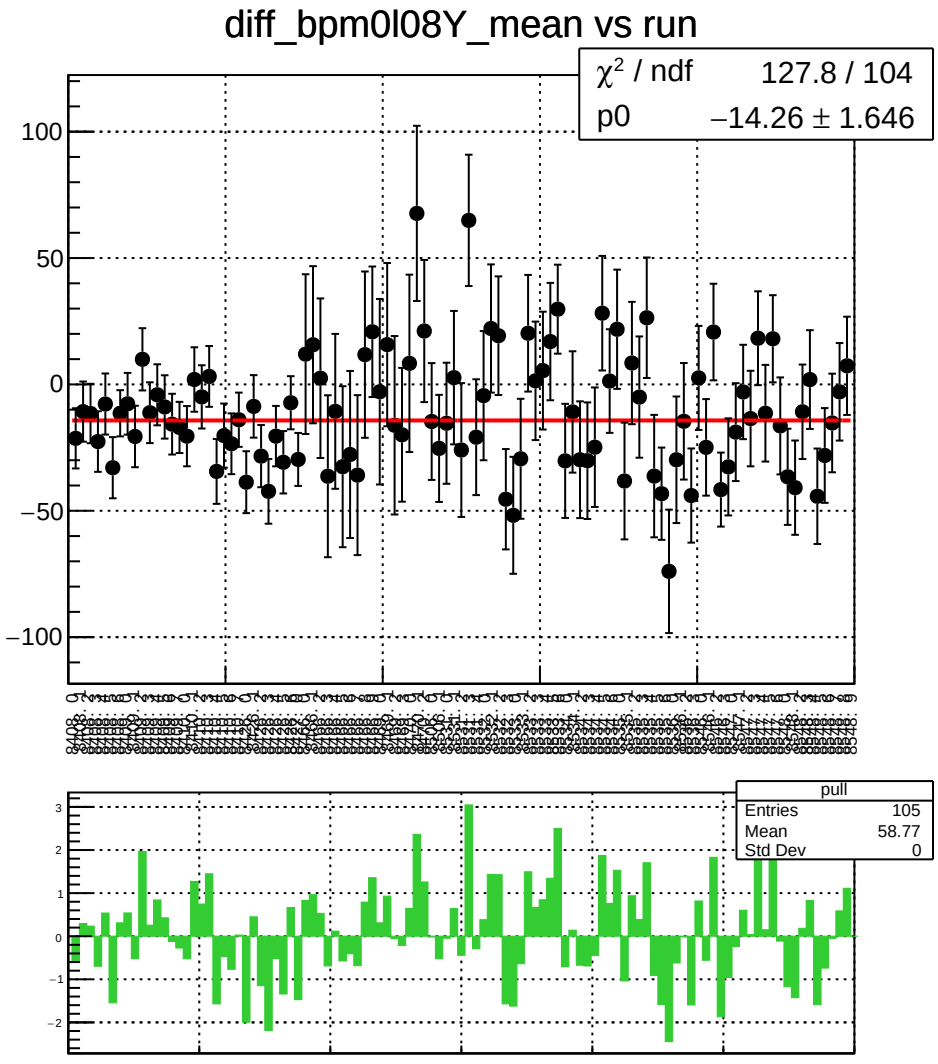

pull1D
Entries 105
Mean 0.08563
Std Dev 1.048

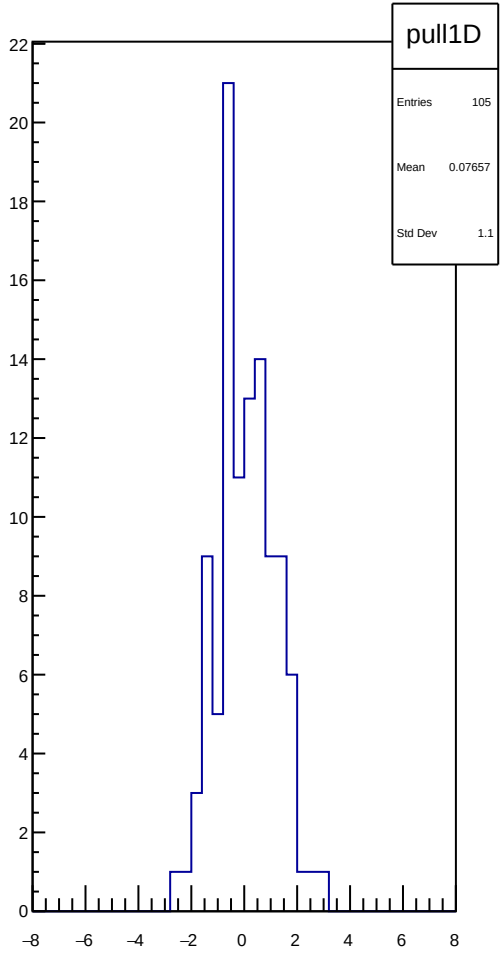

diff_bpm0l07Y_rms vs run
χ² / ndf 2.302e+05 / 104
p0 1238 ± 0.9187
2800
2600
2400
2200
2000
1800
1600
1400
1200
1000
800

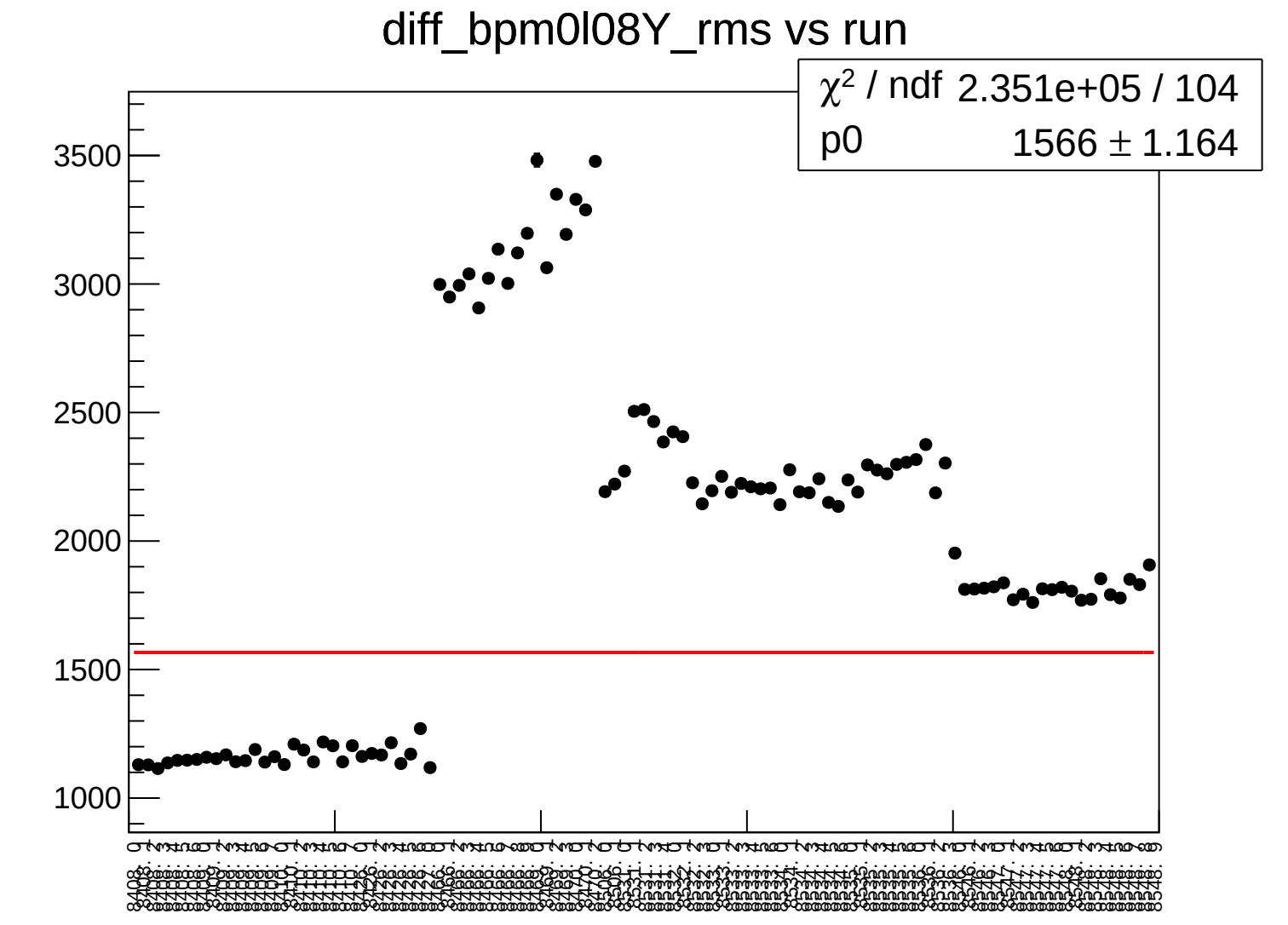

diff_bpm0l08X_mean vs run
χ² / ndf 129 / 104
p0 −79.42 ± 10.55
400
200
0
−200
−400
−600
pull
Entries 105
Mean 2392
Std Dev 0
3
2
1
0
−1
−2
−3

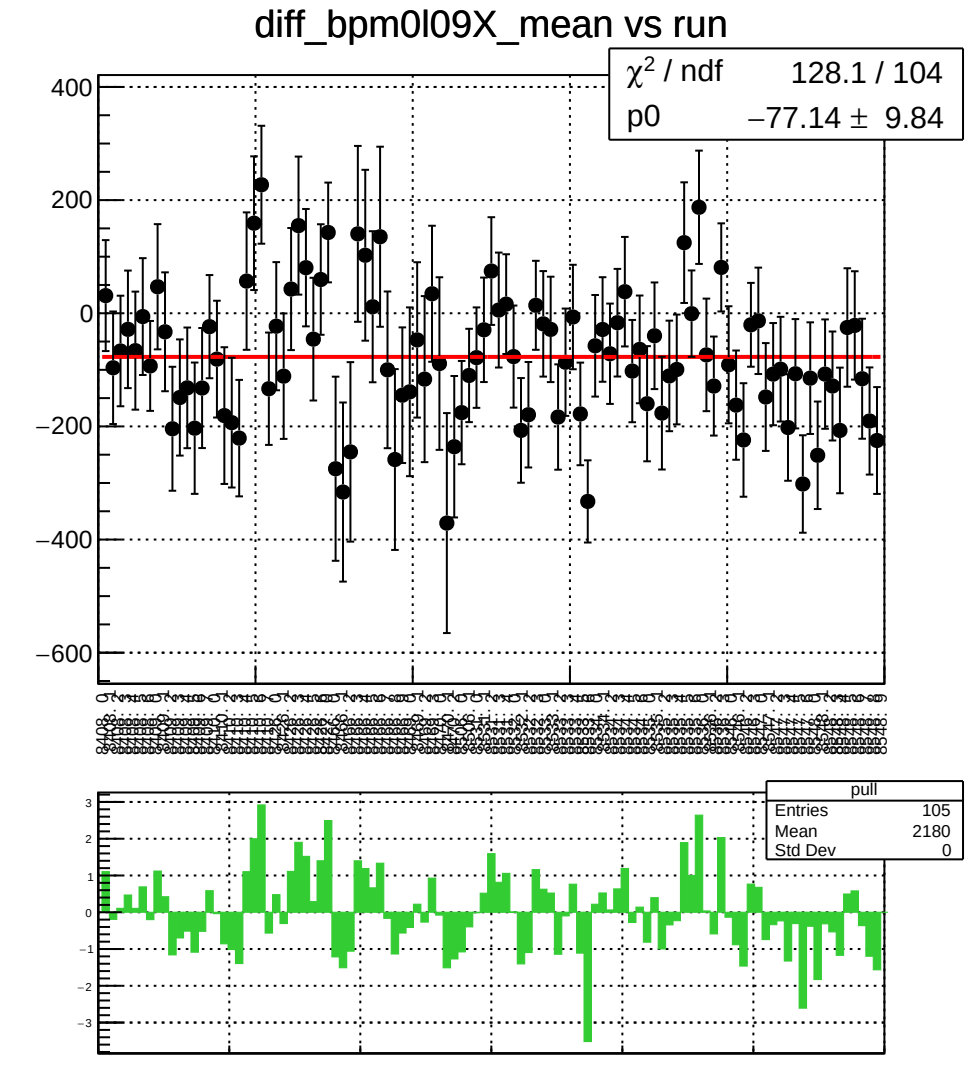

pull1D
Entries 105
Mean −0.002709
Std Dev 1.108
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

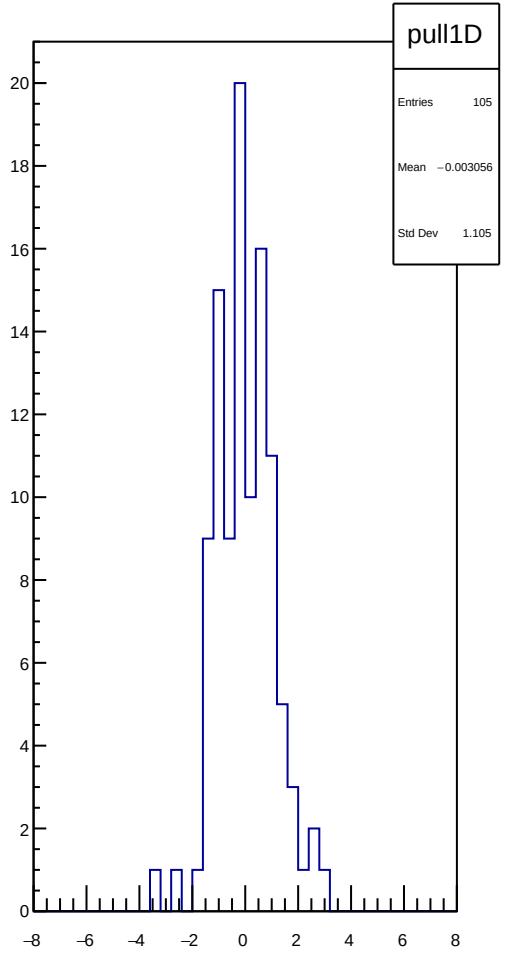

diff_bpm0l08X_rms vs run
χ² / ndf 5.214e+04 / 104
p0 1.053e+04 ± 7.458
20000
18000
16000
14000
12000
10000
8000

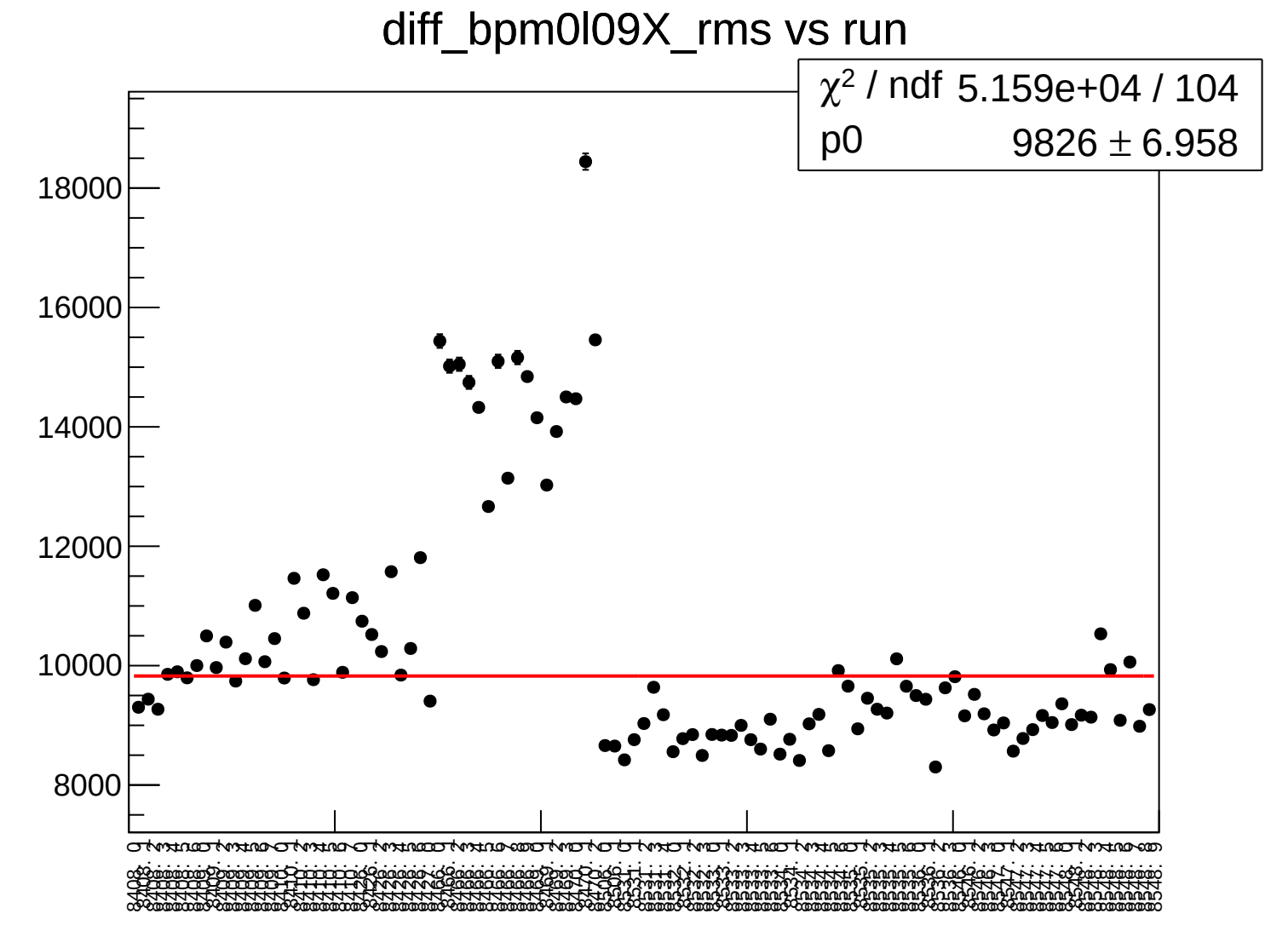

diff_bpm0l08Y_mean vs run
χ² / ndf 127.8 / 104
p0 −14.26 ± 1.646
100
50
0
−50
−100
pull
Entries 105
Mean 58.77
Std Dev 0
3
2
1
0
−1
−2

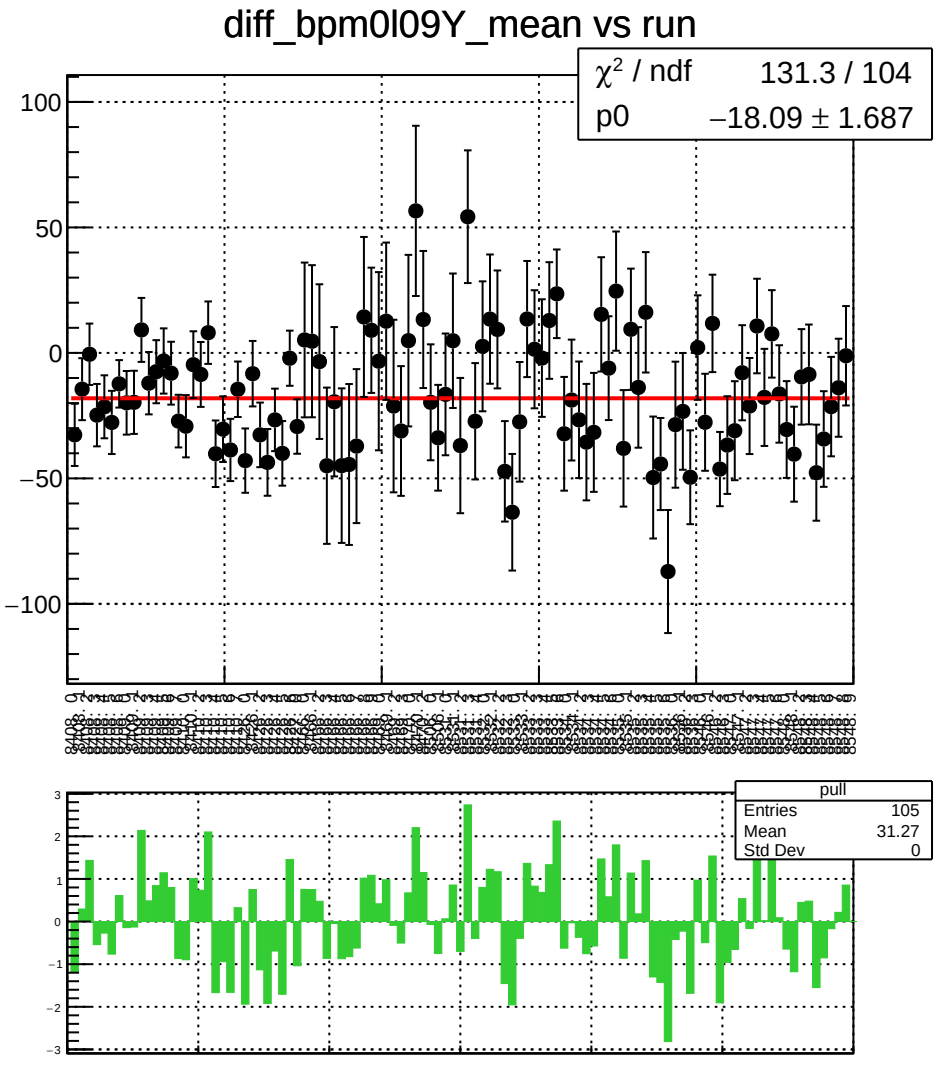

pull1D
Entries 105
Mean 0.07657
Std Dev 1.1
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

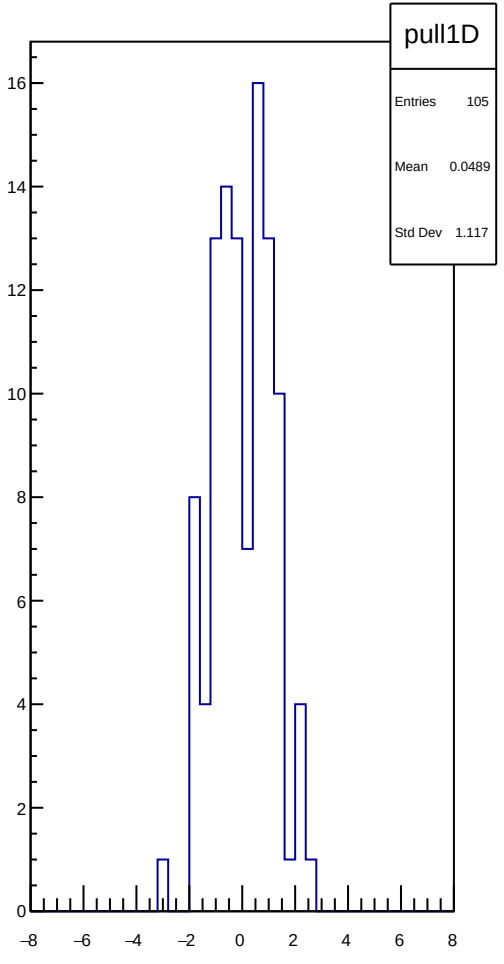

diff_bpm0l08Y_rms vs run
χ² / ndf 2.351e+05 / 104
p0 1566 ± 1.164
3500
3000
2500
2000
1500
1000

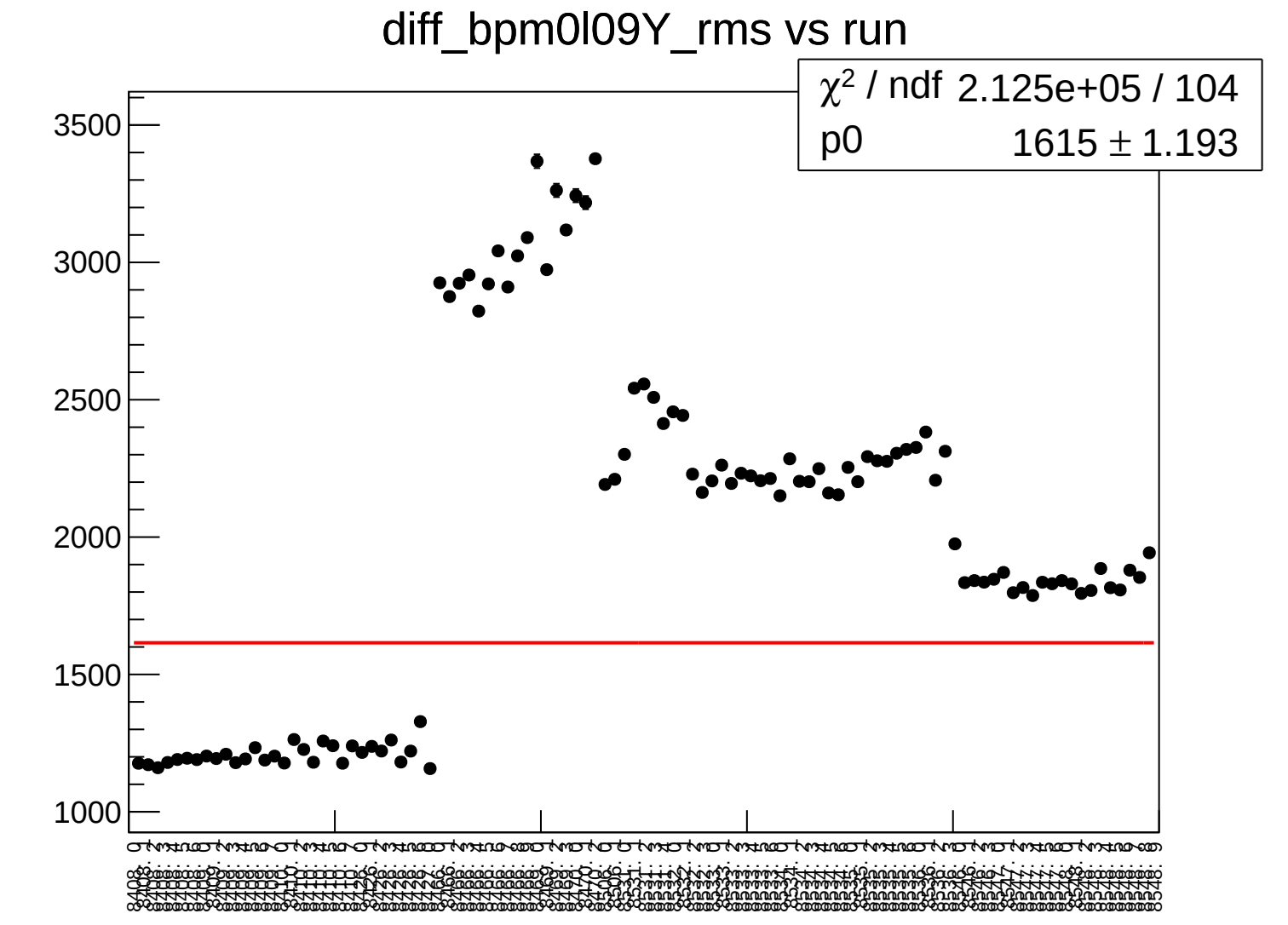

diff_bpm0l09X_mean vs run
χ² / ndf 128.1 / 104
p0 −77.14 ± 9.84
400
200
0
−200
−400
−600
pull
Entries 105
Mean 2180
Std Dev 0
3
2
1
0
−1
−2
−3

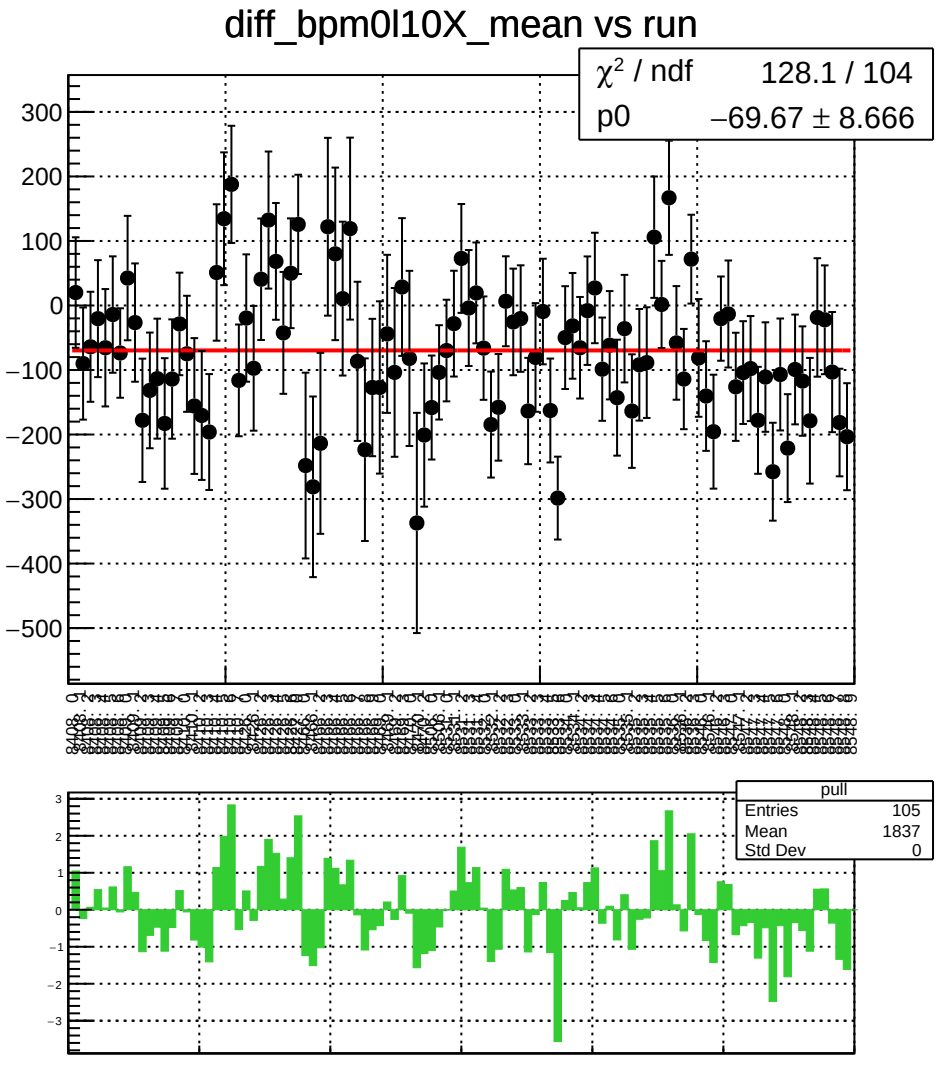

pull1D
Entries 105
Mean −0.003056
Std Dev 1.105
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

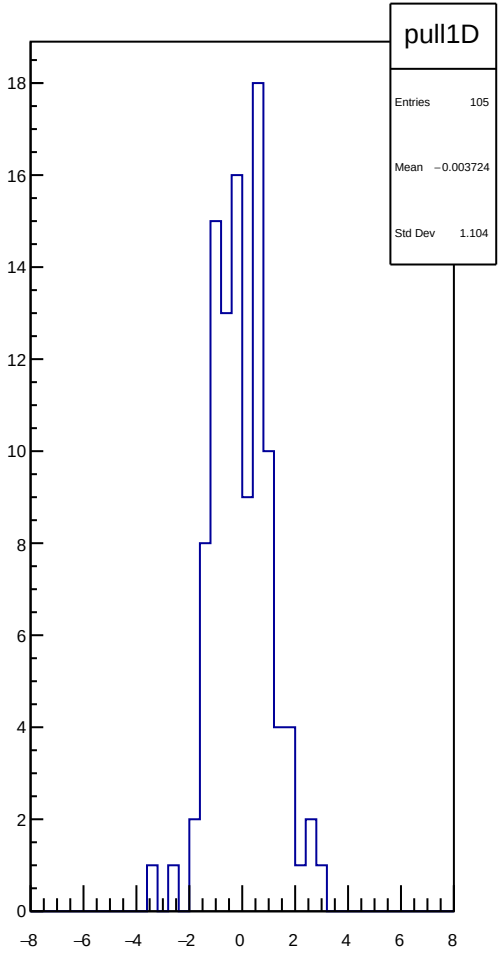

diff_bpm0l09X_rms vs run
χ² / ndf 5.159e+04 / 104
p0 9826 ± 6.958
18000
16000
14000
12000
10000
8000

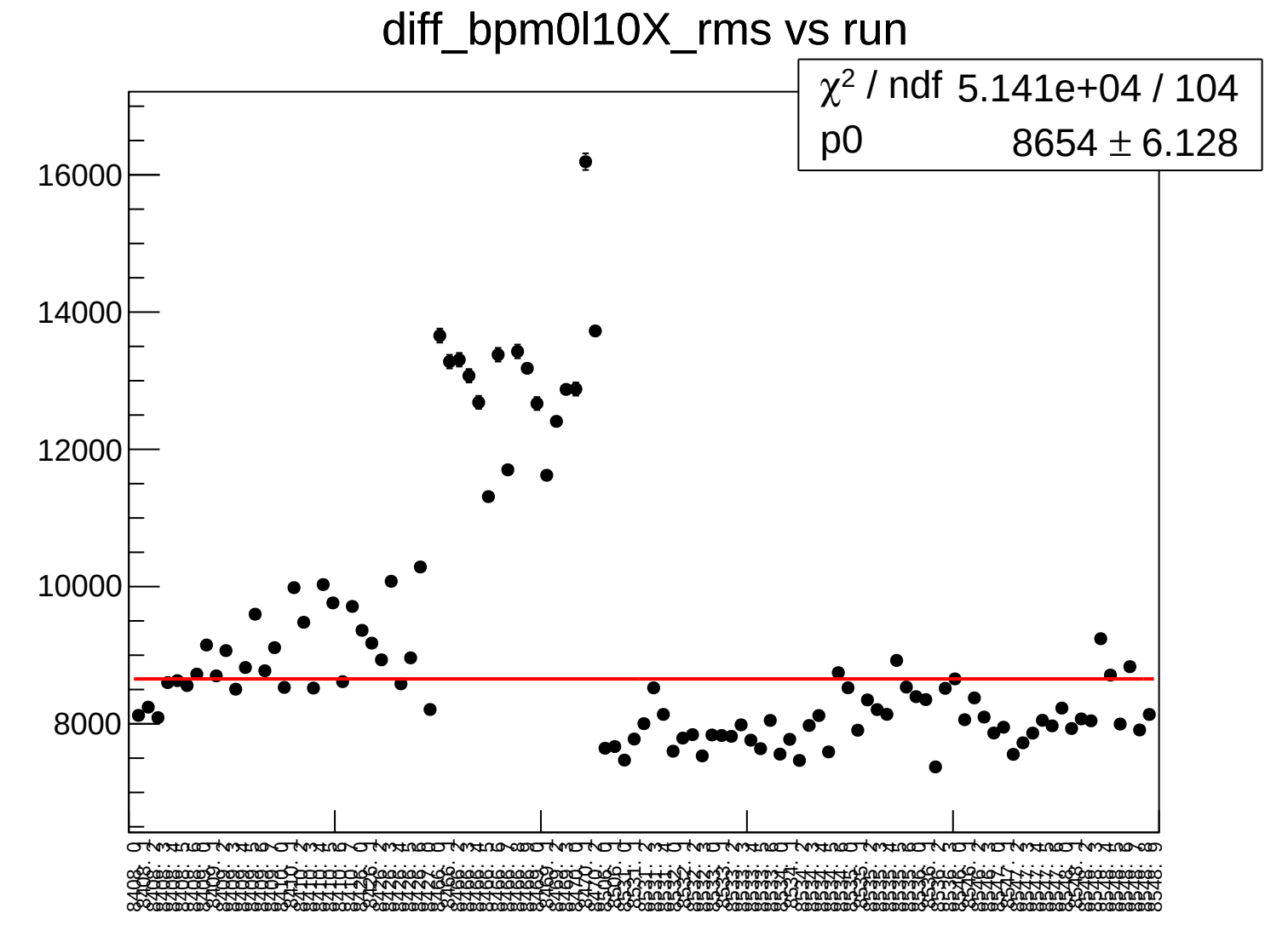

diff_bpm0l09Y_mean vs run
χ² / ndf 131.3 / 104
p0 −18.09 ± 1.687
100
50
0
−50
−100
pull
Entries 105
Mean 31.27
Std Dev 0
3
2
1
0
−1
−2
−3

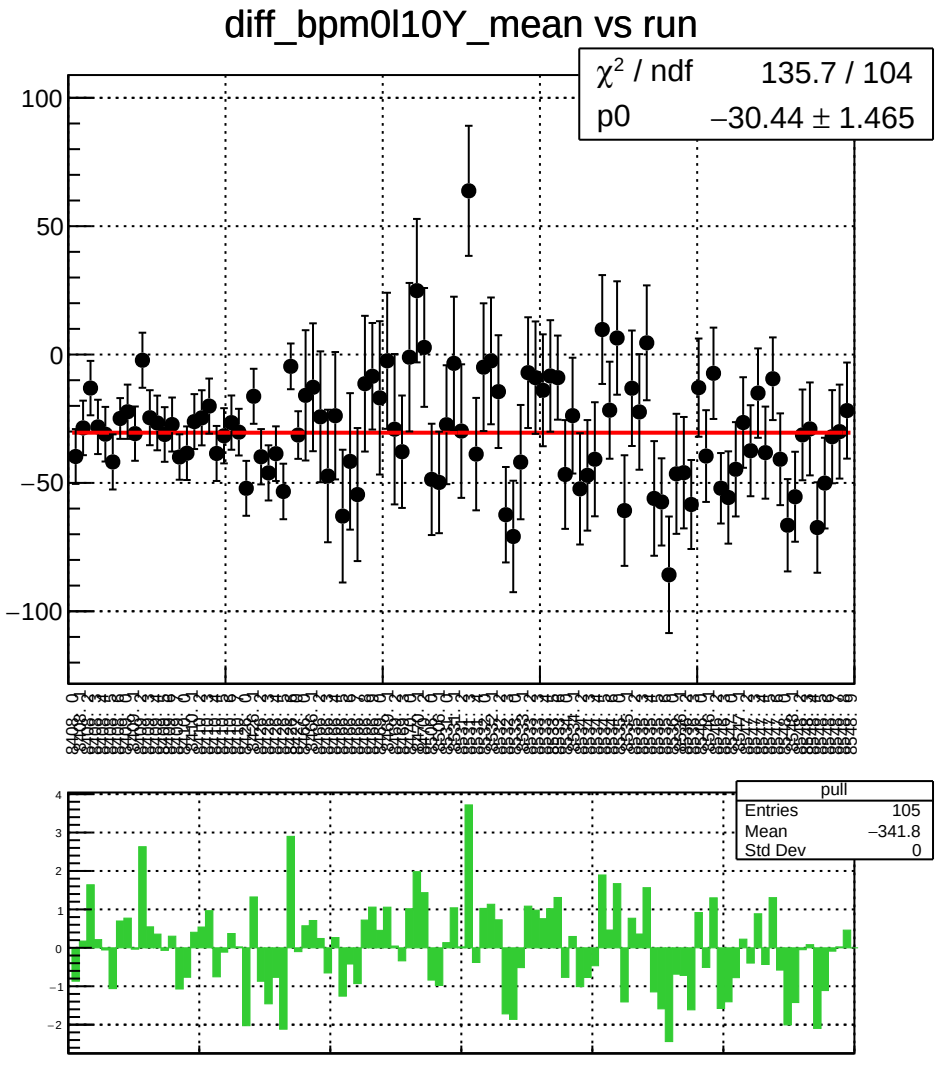

pull1D
Entries 105
Mean 0.0489
Std Dev 1.117
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

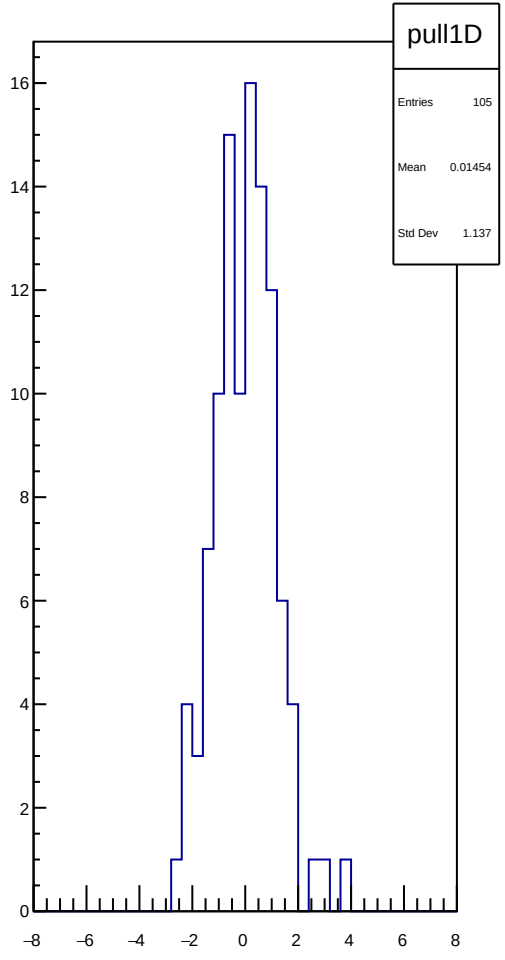

diff_bpm0l09Y_rms vs run
χ² / ndf 2.125e+05 / 104
p0 1615 ± 1.193
3500
3000
2500
2000
1500
1000

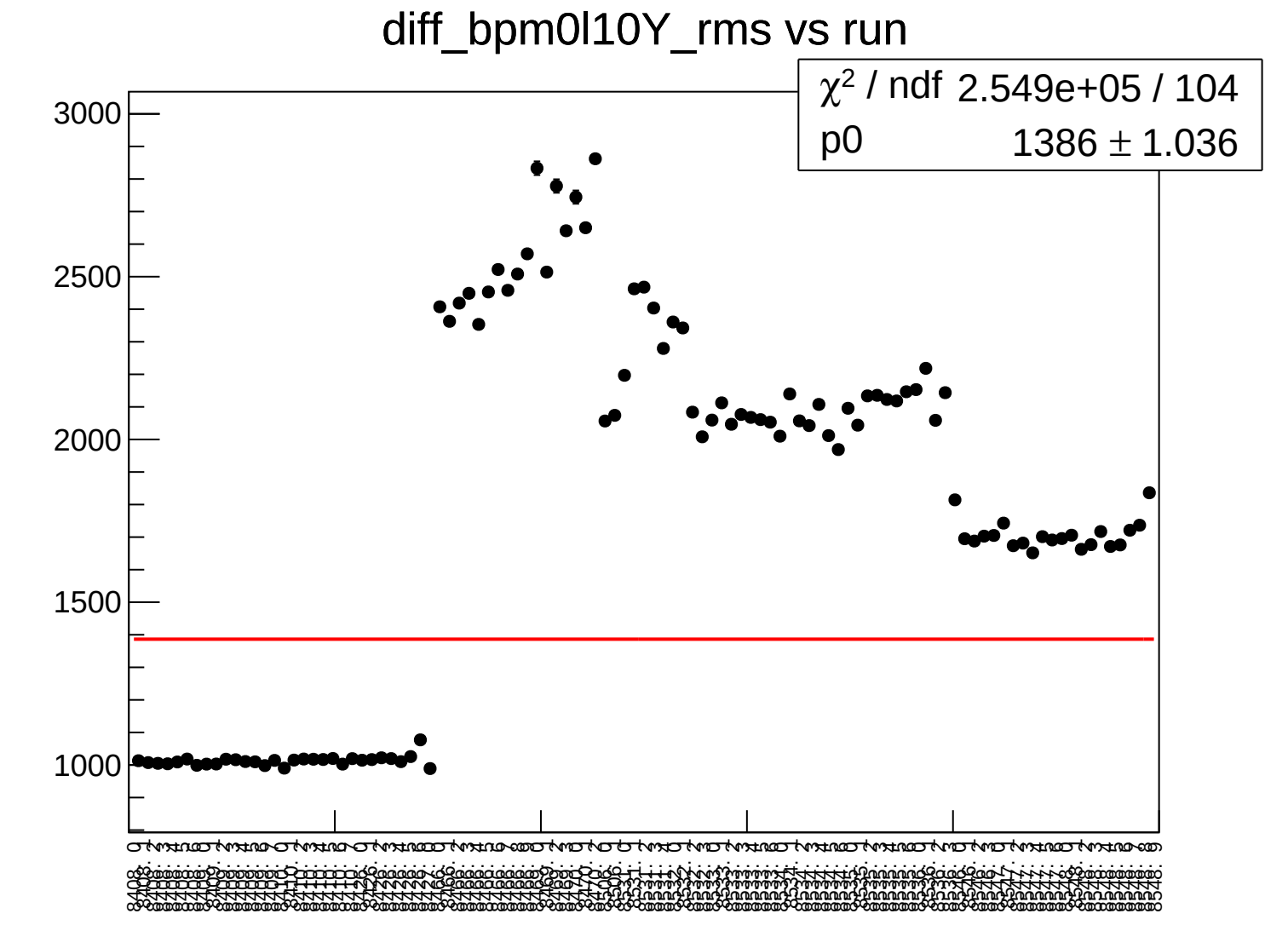

diff_bpm0l10X_mean vs run
χ² / ndf 128.1 / 104
p0 −69.67 ± 8.666
pull
Entries 105
Mean 1837
Std Dev 0

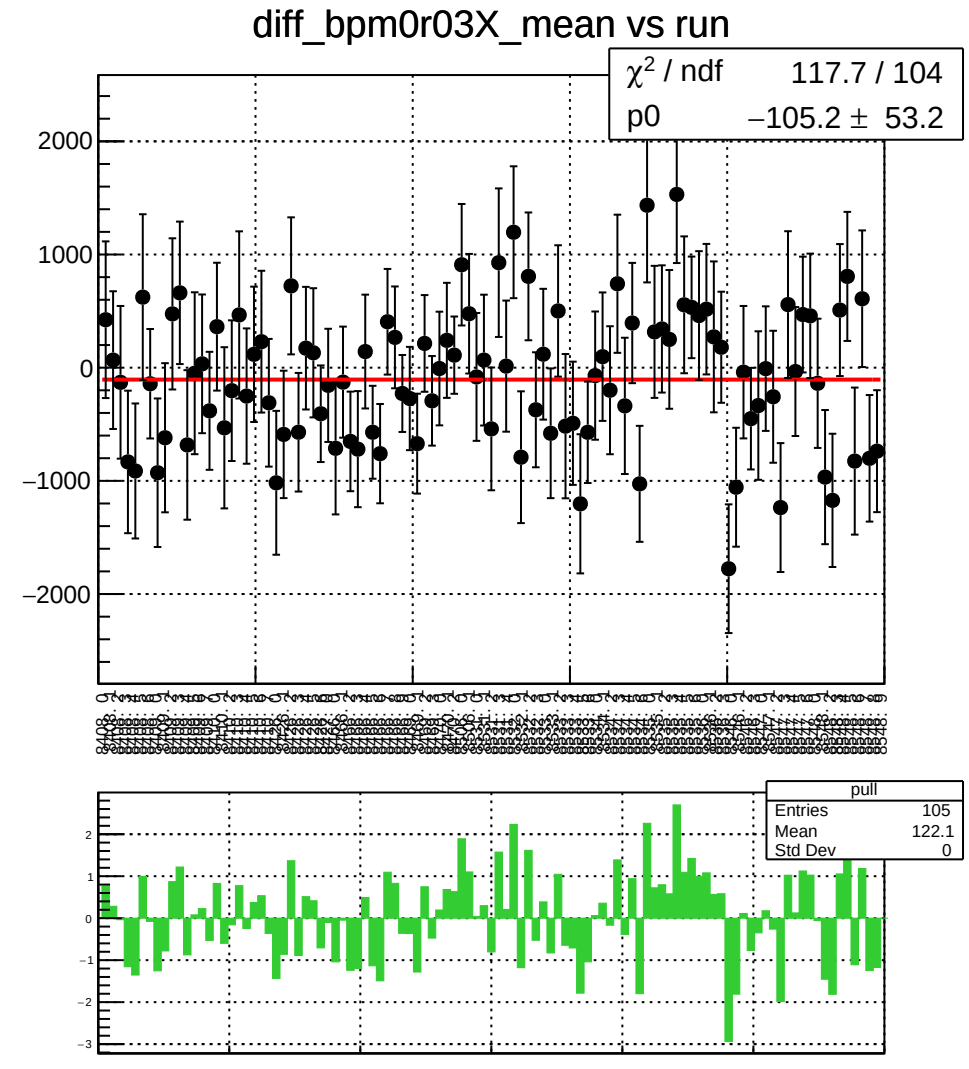

pull1D
Entries 105
Mean −0.003724
Std Dev 1.104

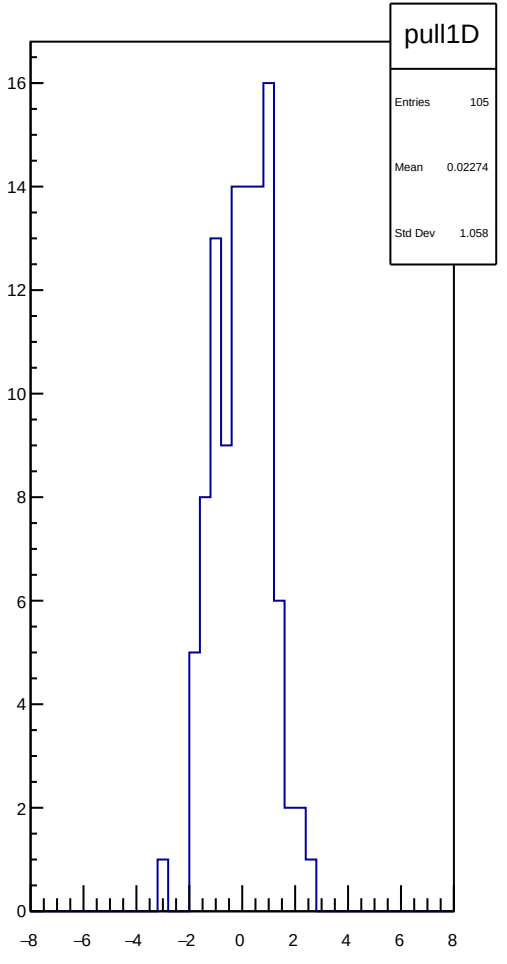

diff_bpm0l10X_rms vs run
χ² / ndf 5.141e+04 / 104
p0 8654 ± 6.128
16000
14000
12000
10000
8000

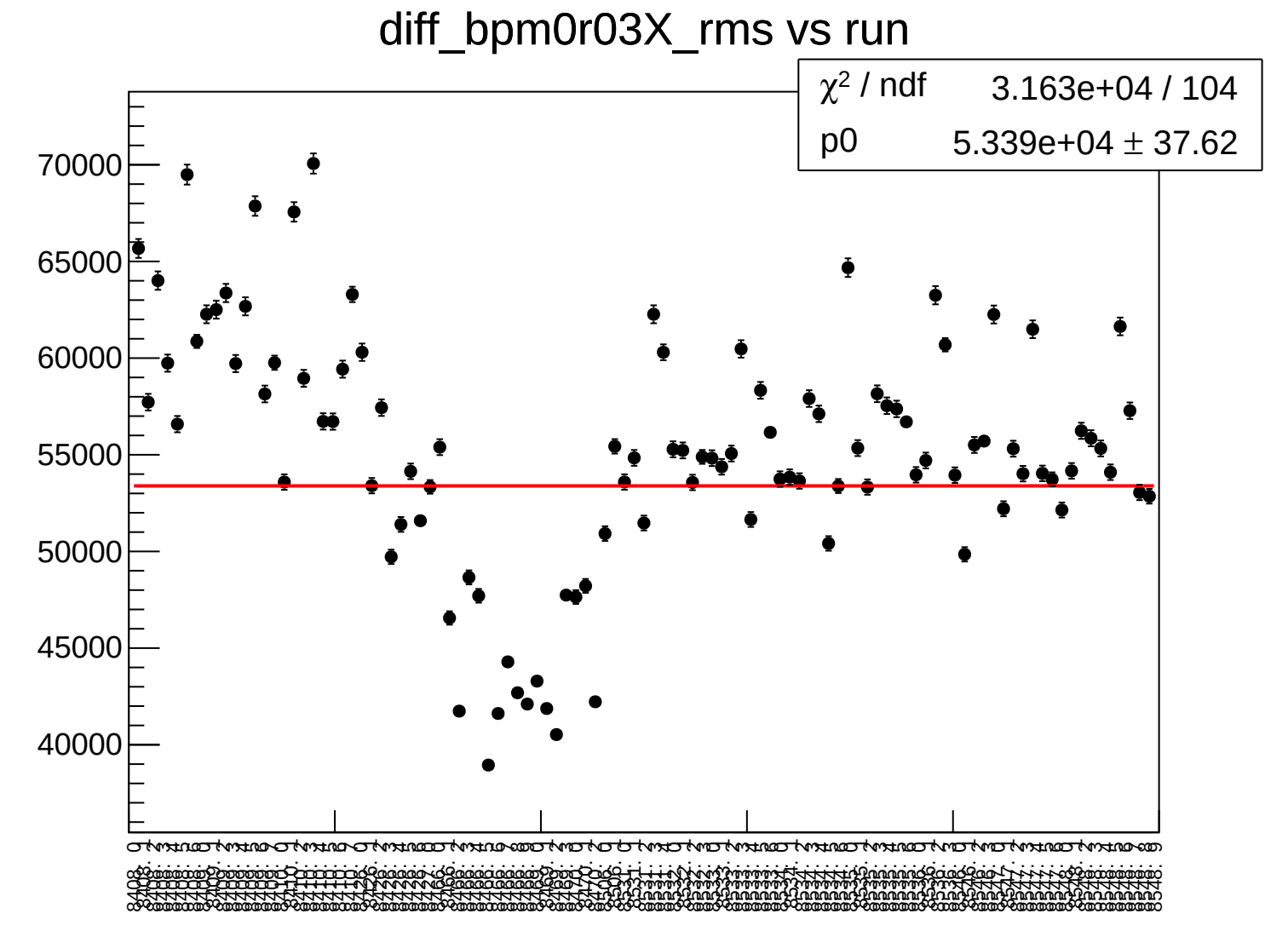

diff_bpm0l10Y_mean vs run
χ² / ndf 135.7 / 104
p0 −30.44 ± 1.465
100
50
0
−50
−100
pull
Entries 105
Mean −341.8
Std Dev 0
4
3
2
1
0
−1
−2

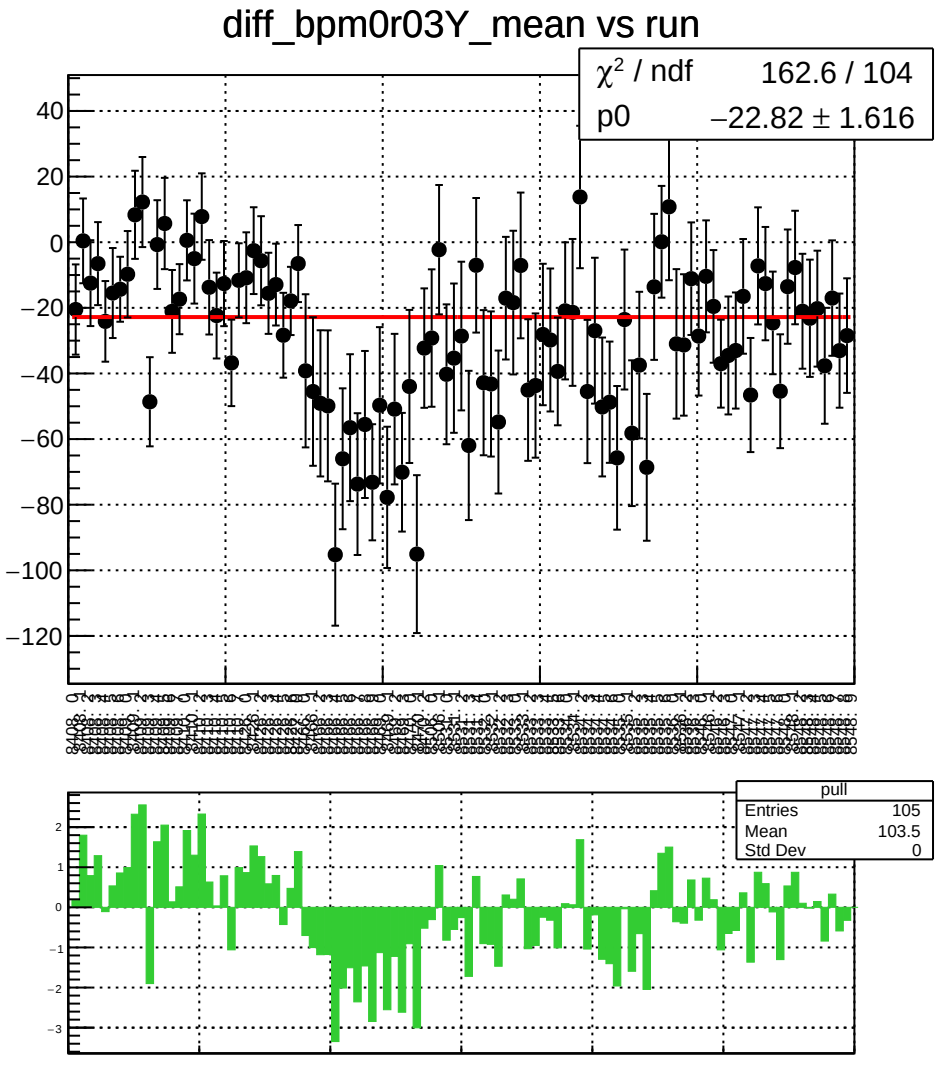

pull1D
Entries 105
Mean 0.01454
Std Dev 1.137
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

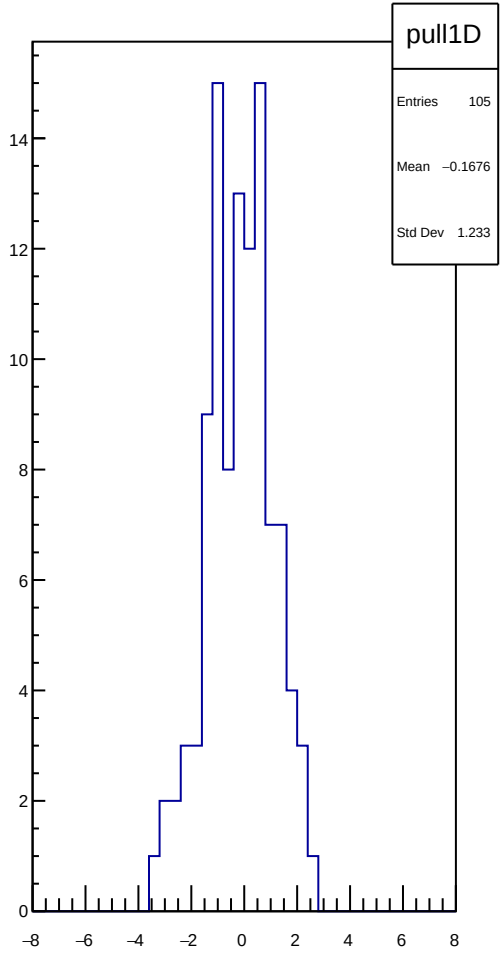

diff_bpm0l10Y_rms vs run
χ² / ndf 2.549e+05 / 104
p0 1386 ± 1.036
3000
2500
2000
1500
1000

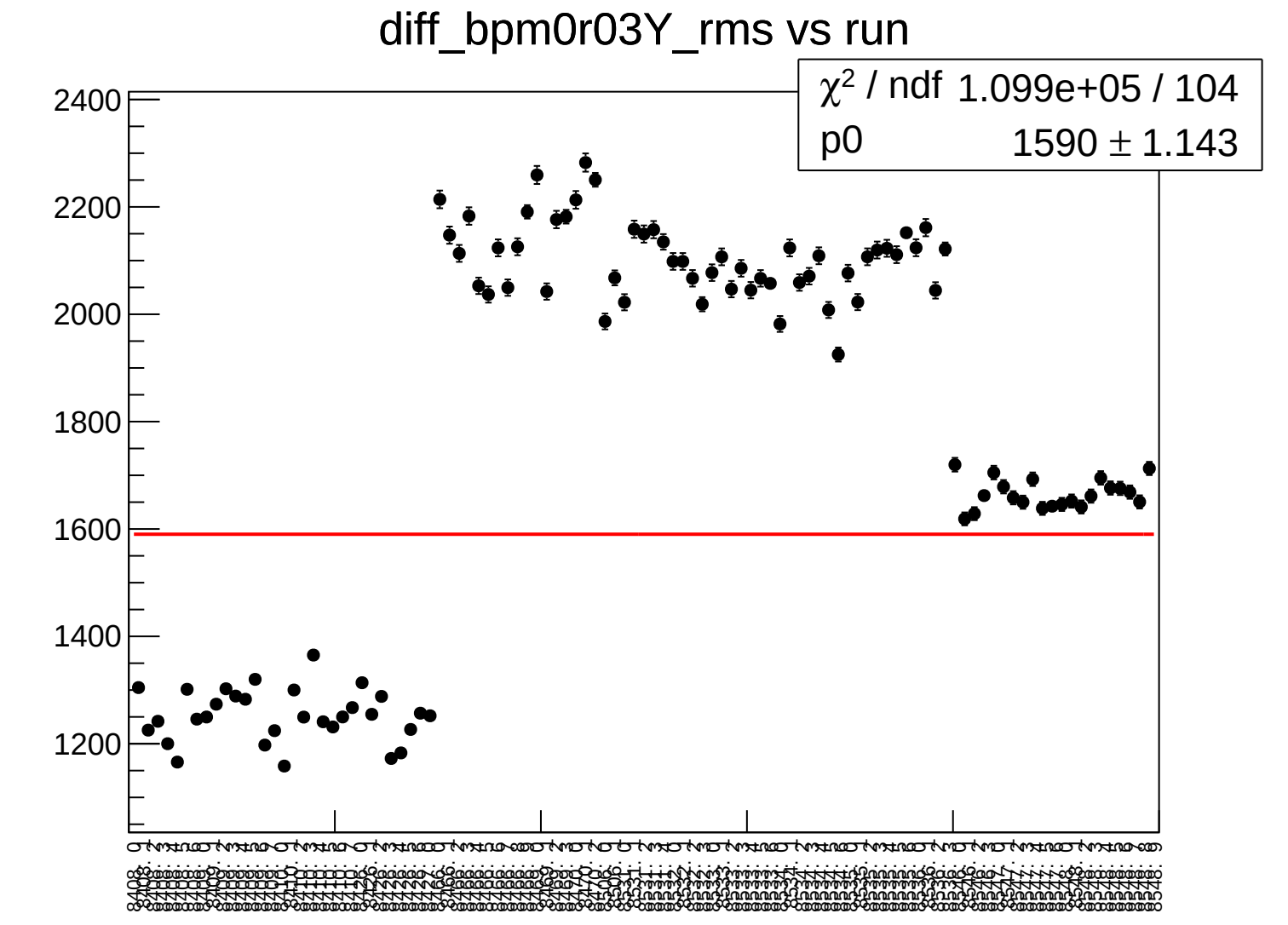

diff_bpm0r03X_mean vs run
χ² / ndf 117.7 / 104
p0 −105.2 ± 53.2
2000
1000
0
−1000
−2000
pull
Entries 105
Mean 122.1
Std Dev 0
2
1
0
−1
−2
−3

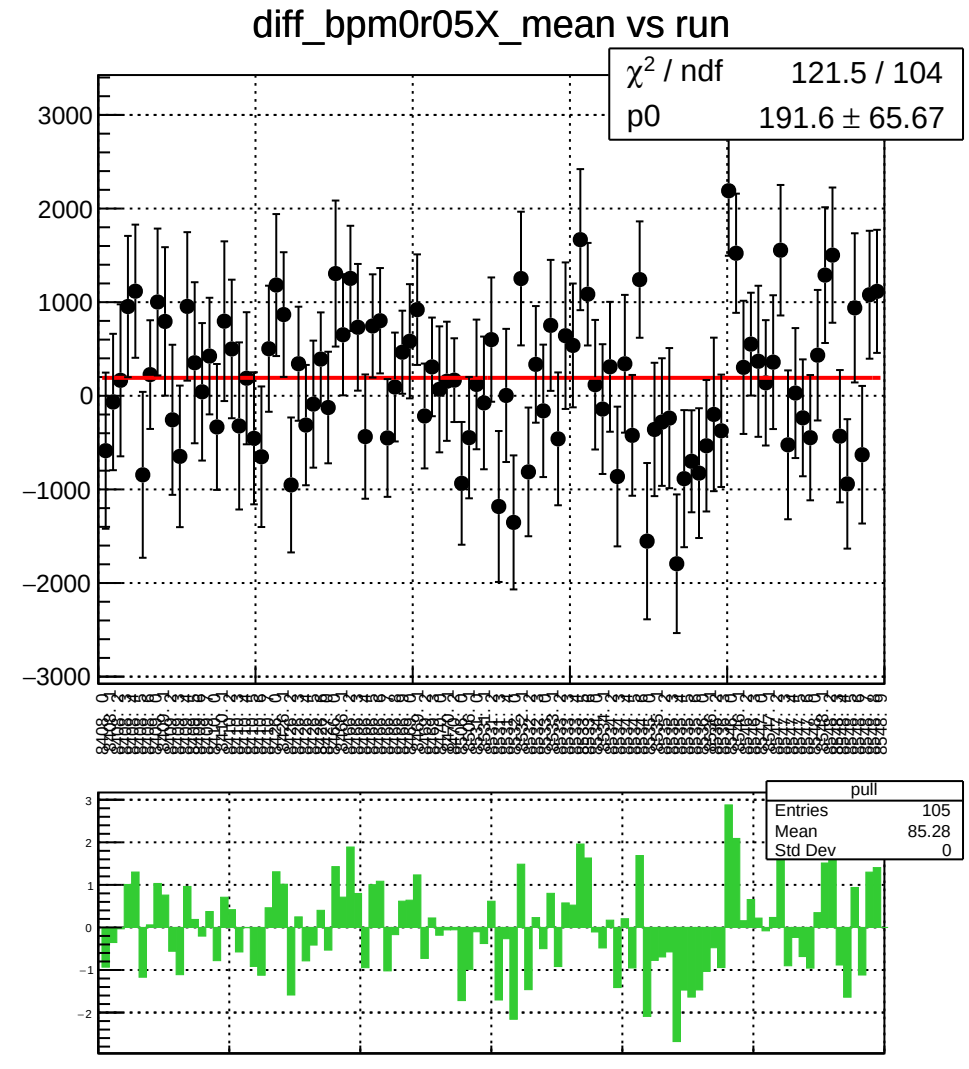

pull1D
Entries 105
Mean 0.02274
Std Dev 1.058
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

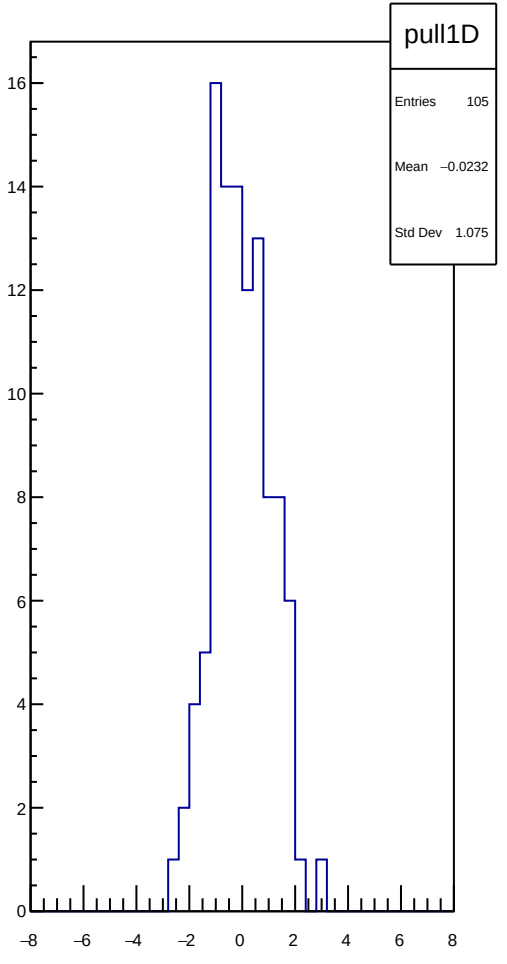

diff_bpm0r03X_rms vs run
χ^2 / ndf 3.163e+04 / 104
p0 5.339e+04 ± 37.62
70000
65000
60000
55000
50000
45000
40000

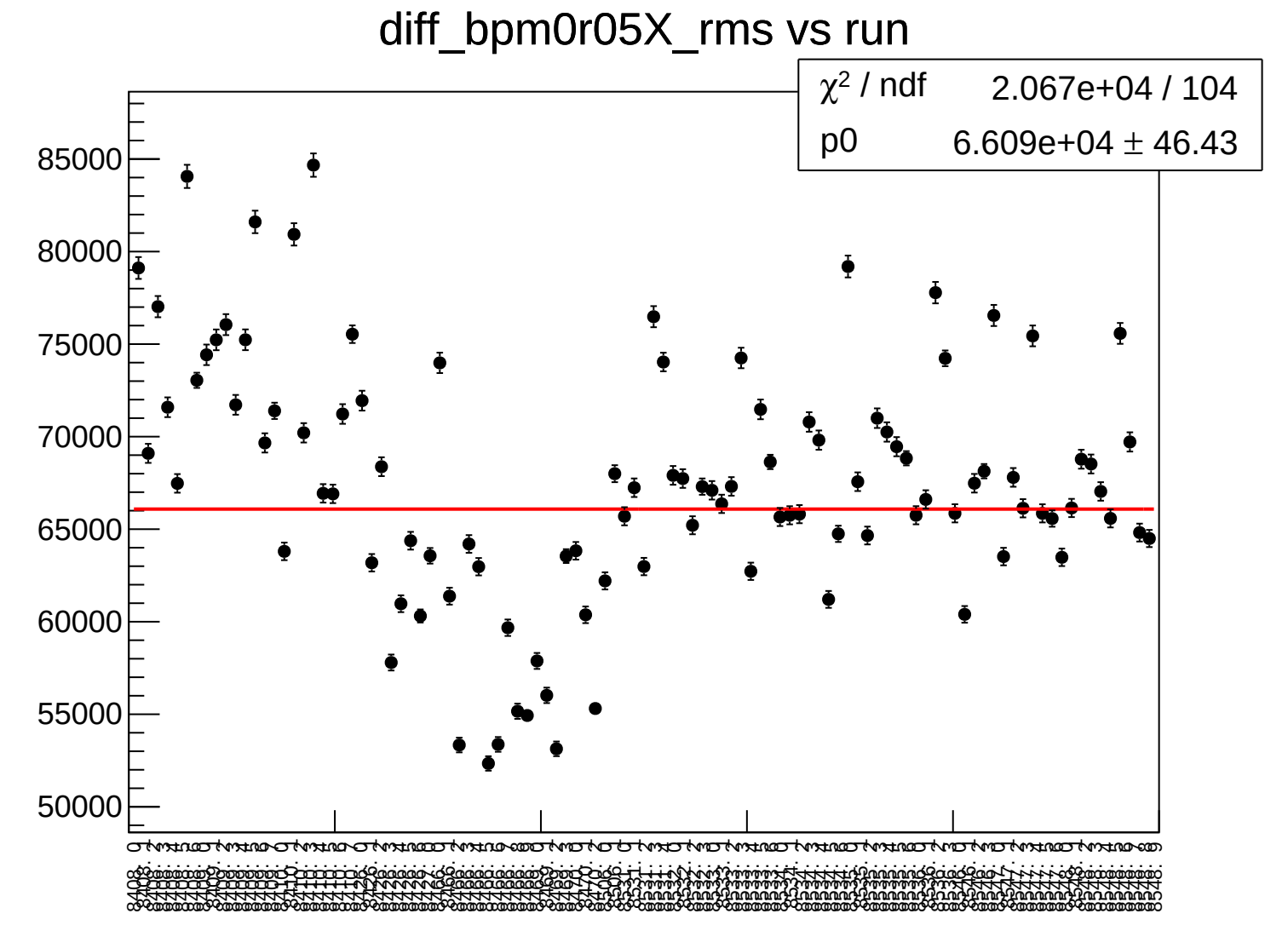

diff_bpm0r03Y_mean vs run
χ² / ndf 162.6 / 104
p0 −22.82 ± 1.616
pull
Entries 105
Mean 103.5
Std Dev 0

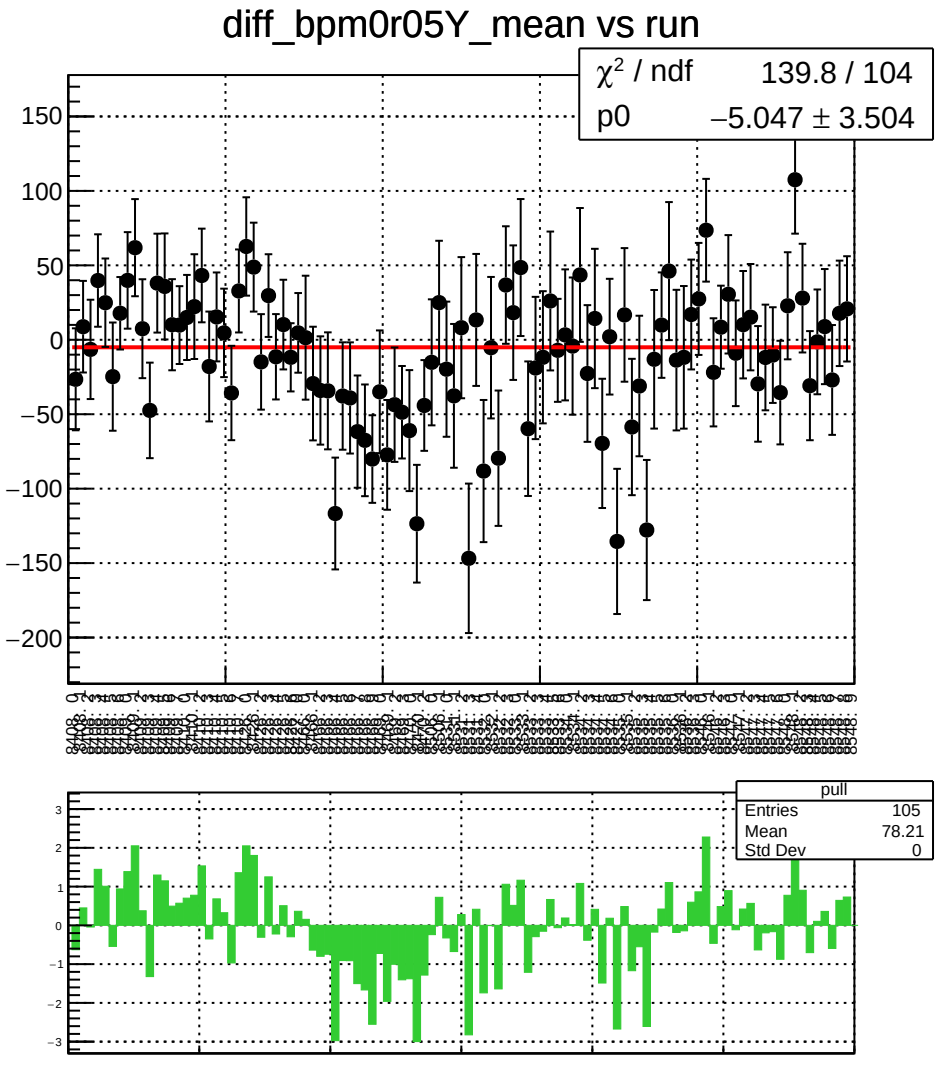

pull1D
Entries 105
Mean −0.1676
Std Dev 1.233

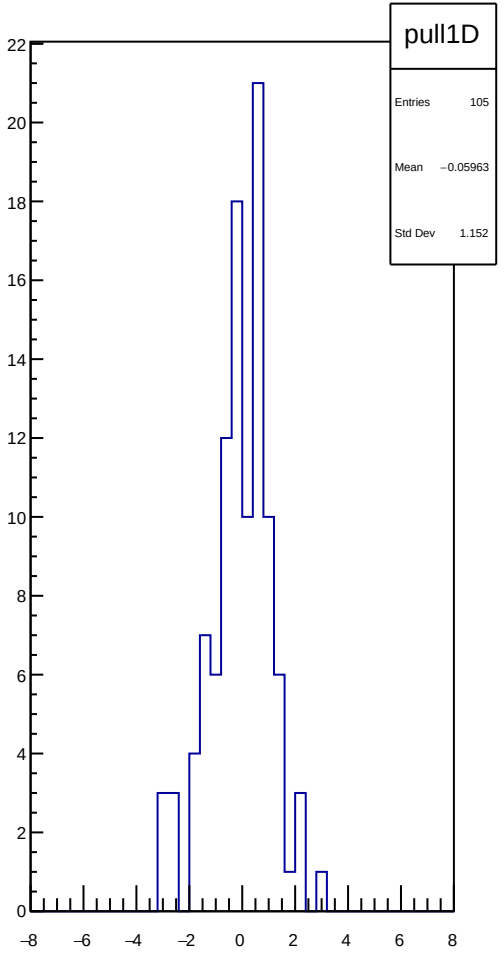

diff_bpm0r03Y_rms vs run
χ² / ndf 1.099e+05 / 104
p0 1590 ± 1.143
2400
2200
2000
1800
1600
1400
1200

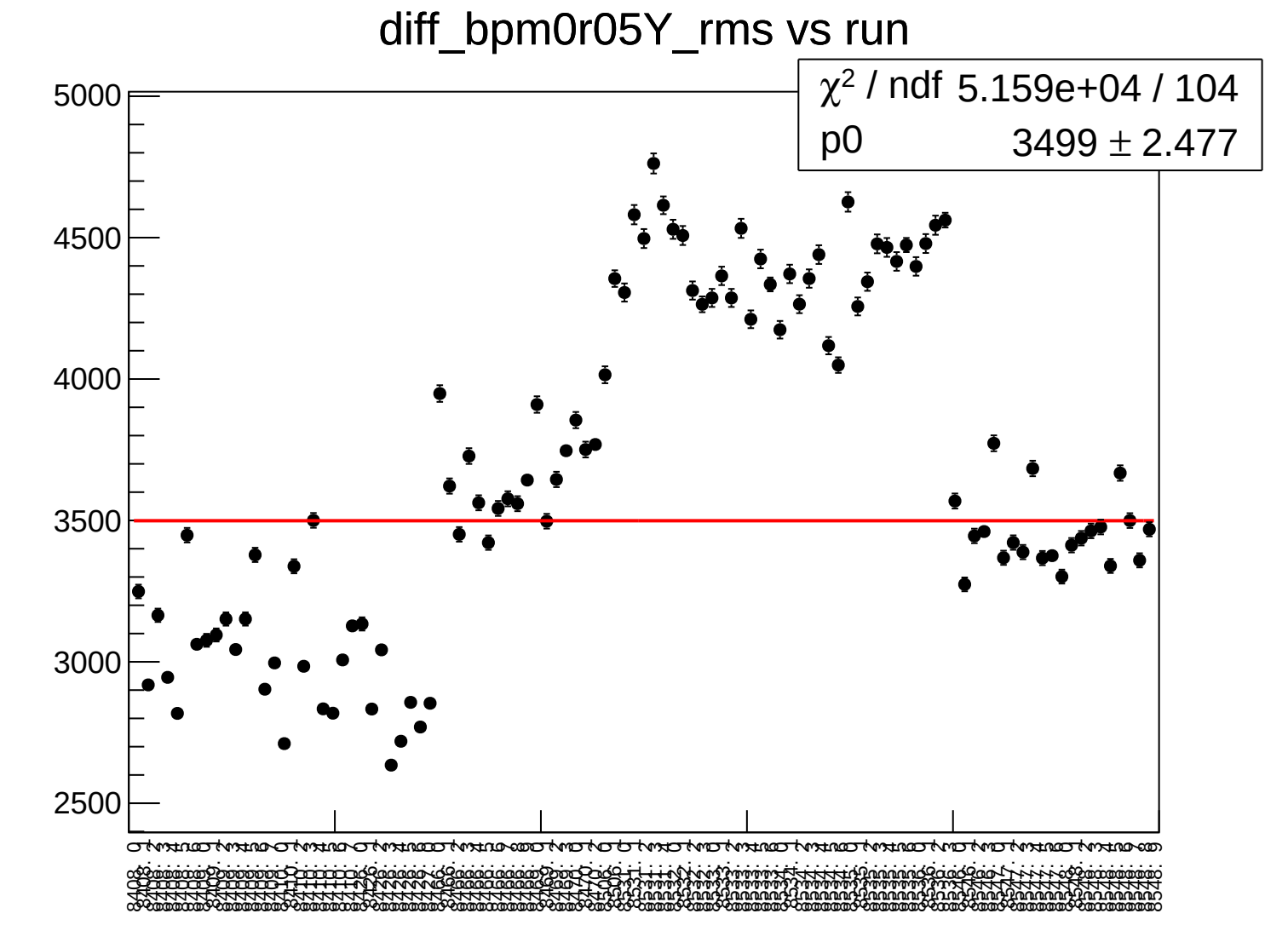

diff_bpm0r05X_mean vs run
χ² / ndf 121.5 / 104
p0 191.6 ± 65.67
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 105
Mean 85.28
Std Dev 0
3
2
1
0
−1
−2

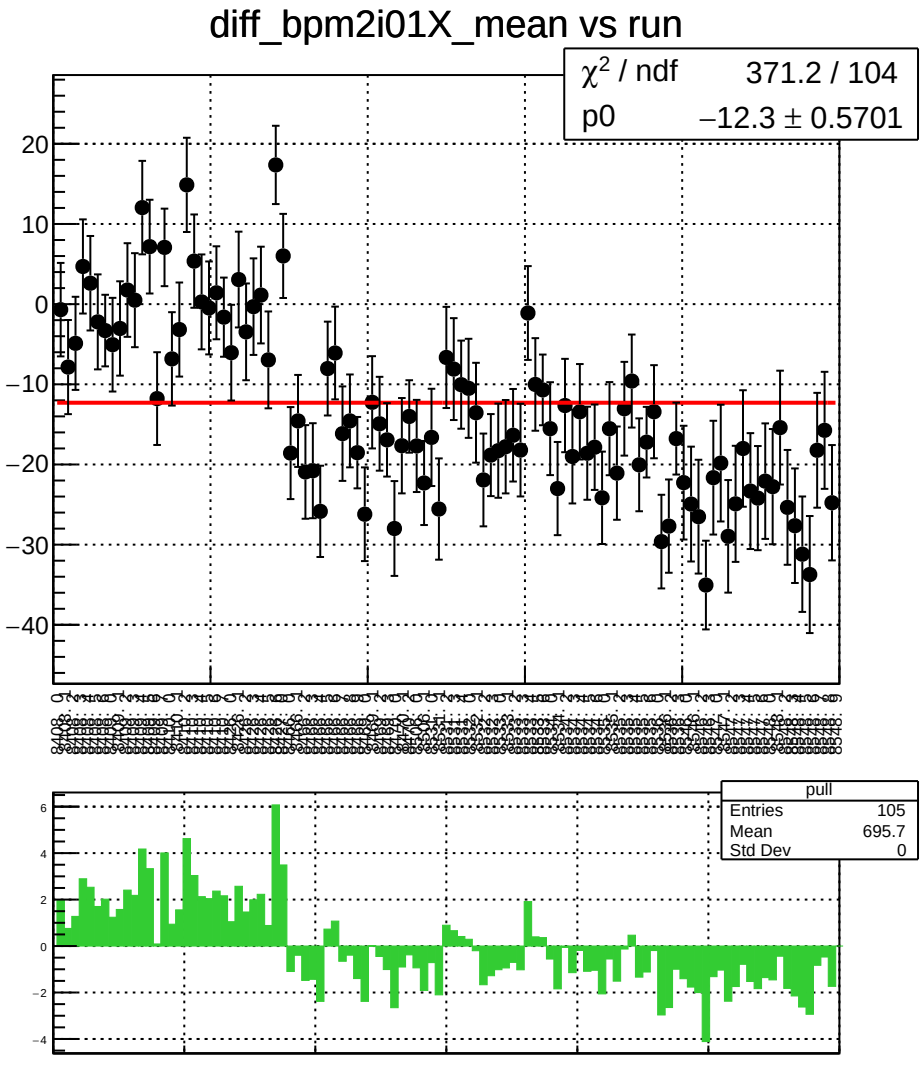

pull1D
Entries 105
Mean −0.0232
Std Dev 1.075
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

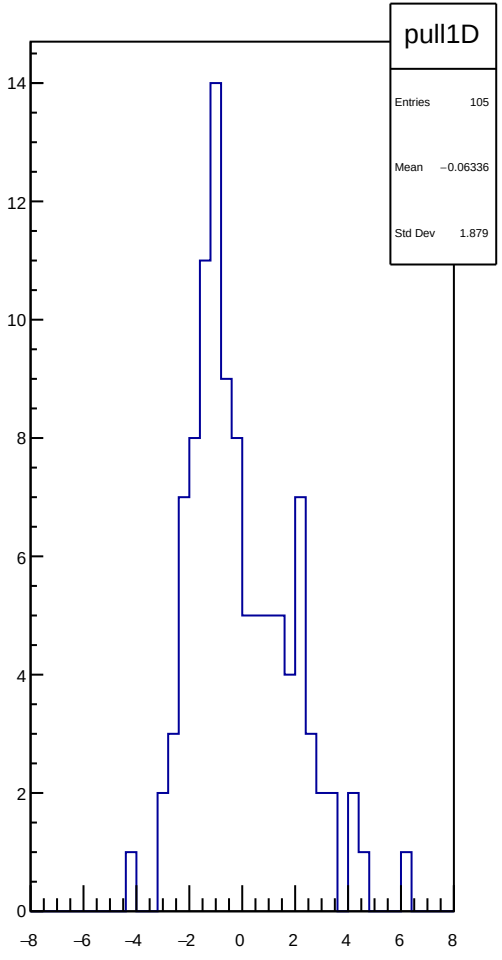

diff_bpm0r05X_rms vs run
χ² / ndf 2.067e+04 / 104
p0 6.609e+04 ± 46.43
85000
80000
75000
70000
65000
60000
55000
50000

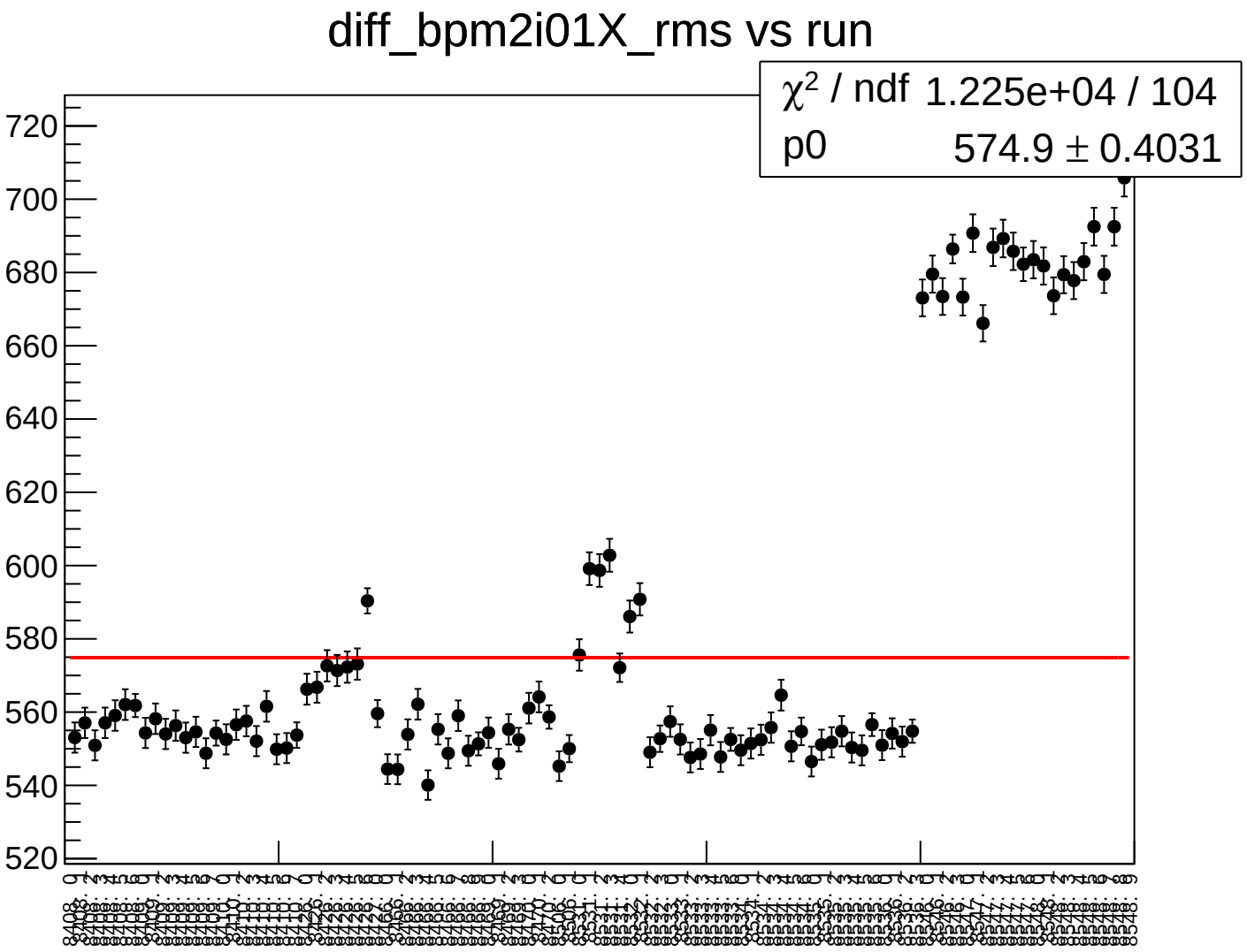

diff_bpm0r05Y_mean vs run
χ² / ndf 139.8 / 104
p0 −5.047 ± 3.504
150
100
50
0
−50
−100
−150
−200
pull
Entries 105
Mean 78.21
Std Dev 0
3
2
1
0
−1
−2
−3

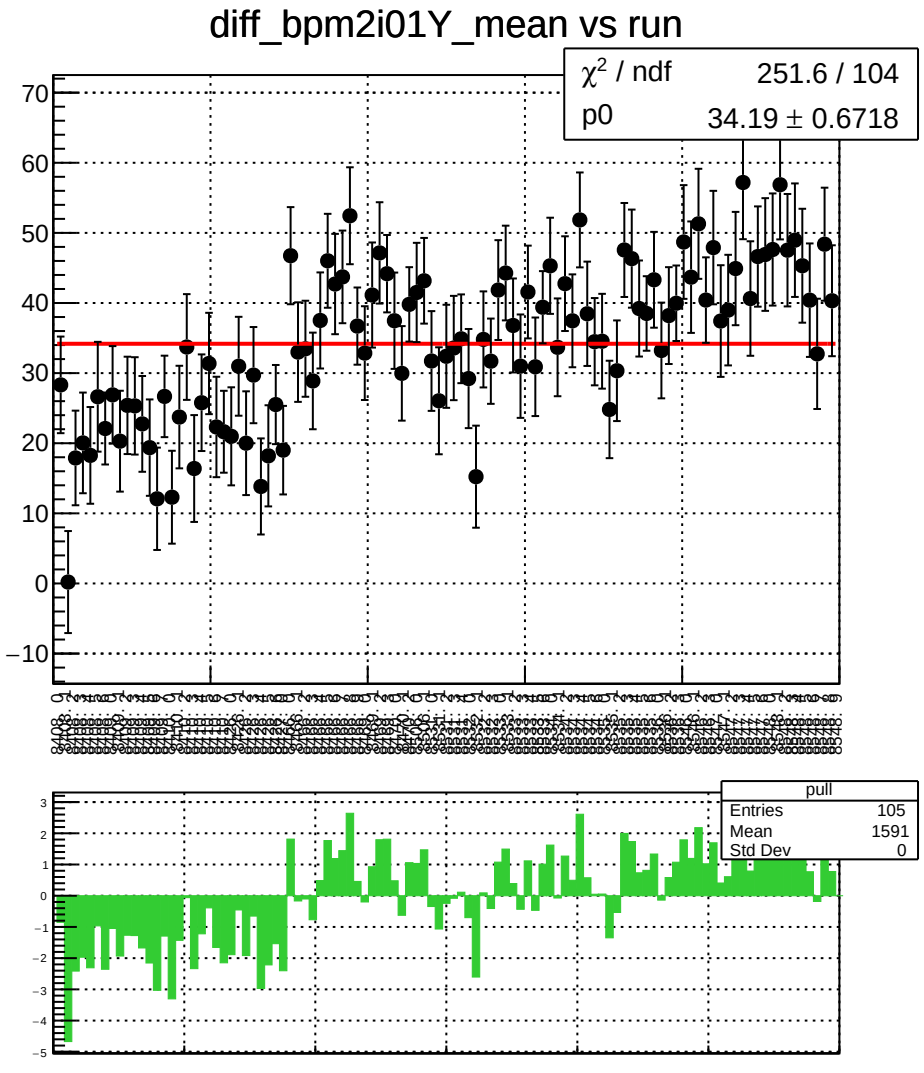

pull1D
Entries 105
Mean −0.05963
Std Dev 1.152
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

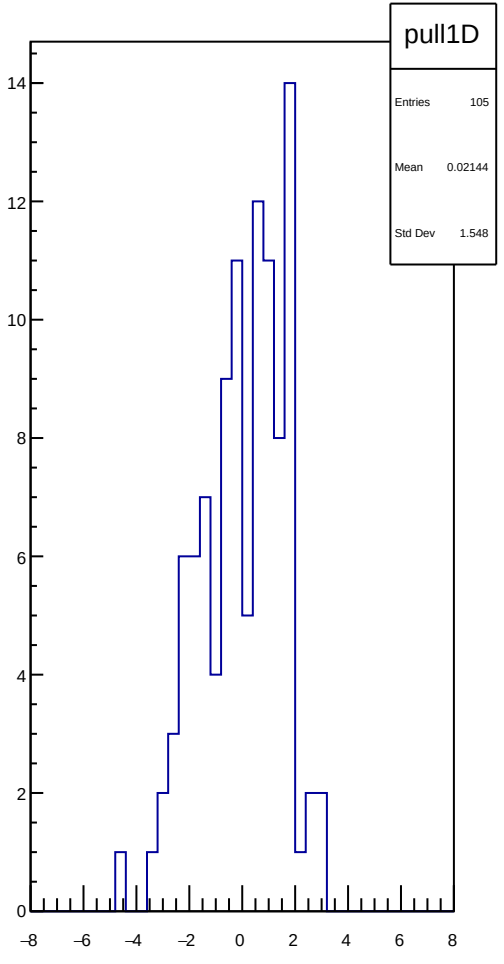

diff_bpm0r05Y_rms vs run
χ² / ndf 5.159e+04 / 104
p0 3499 ± 2.477
5000
4500
4000
3500
3000
2500

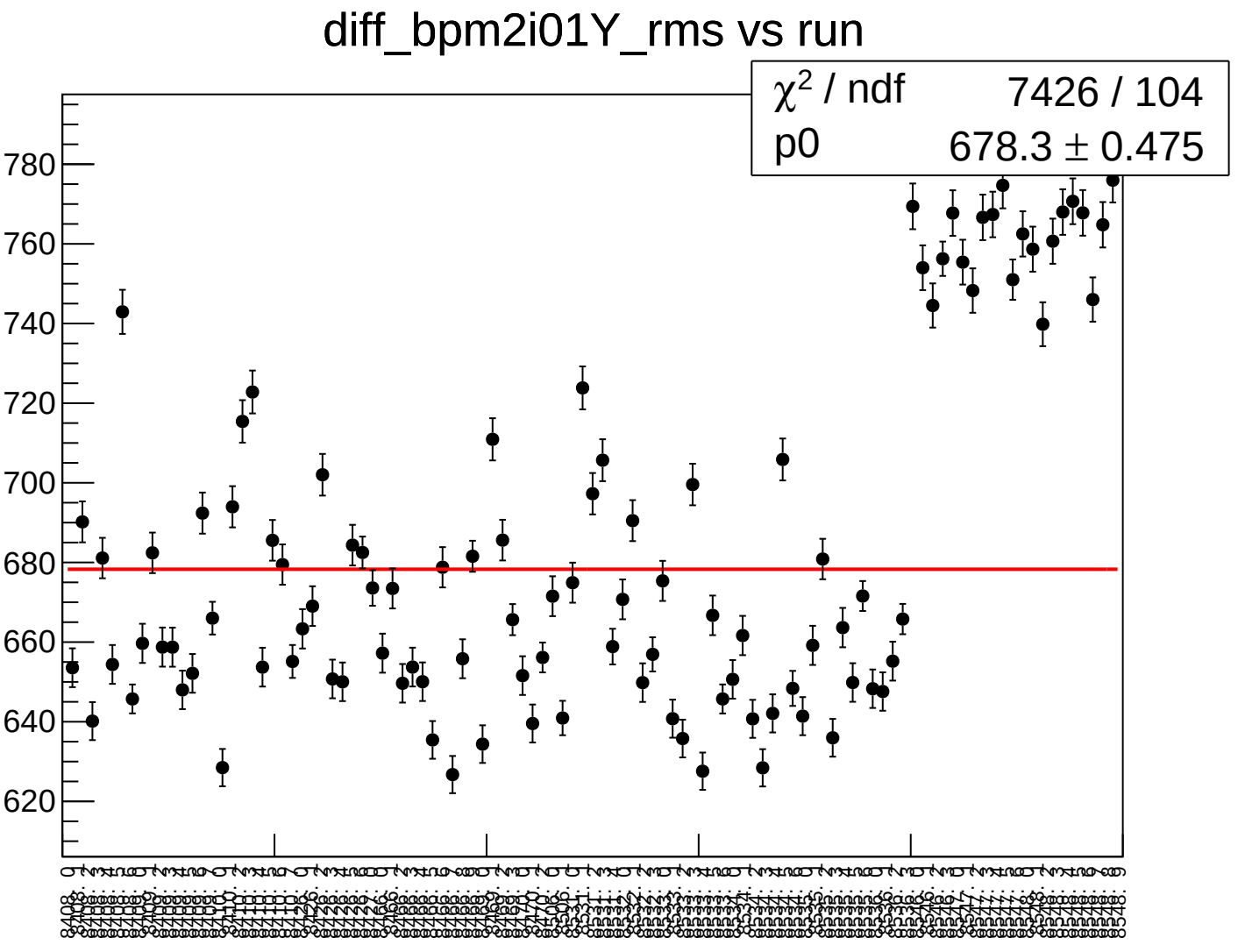

diff_bpm2i01X_mean vs run
χ² / ndf 371.2 / 104
p0 −12.3 ± 0.5701
20
10
0
−10
−20
−30
−40
pull
Entries 105
Mean 695.7
Std Dev 0
6
4
2
0
−2
−4

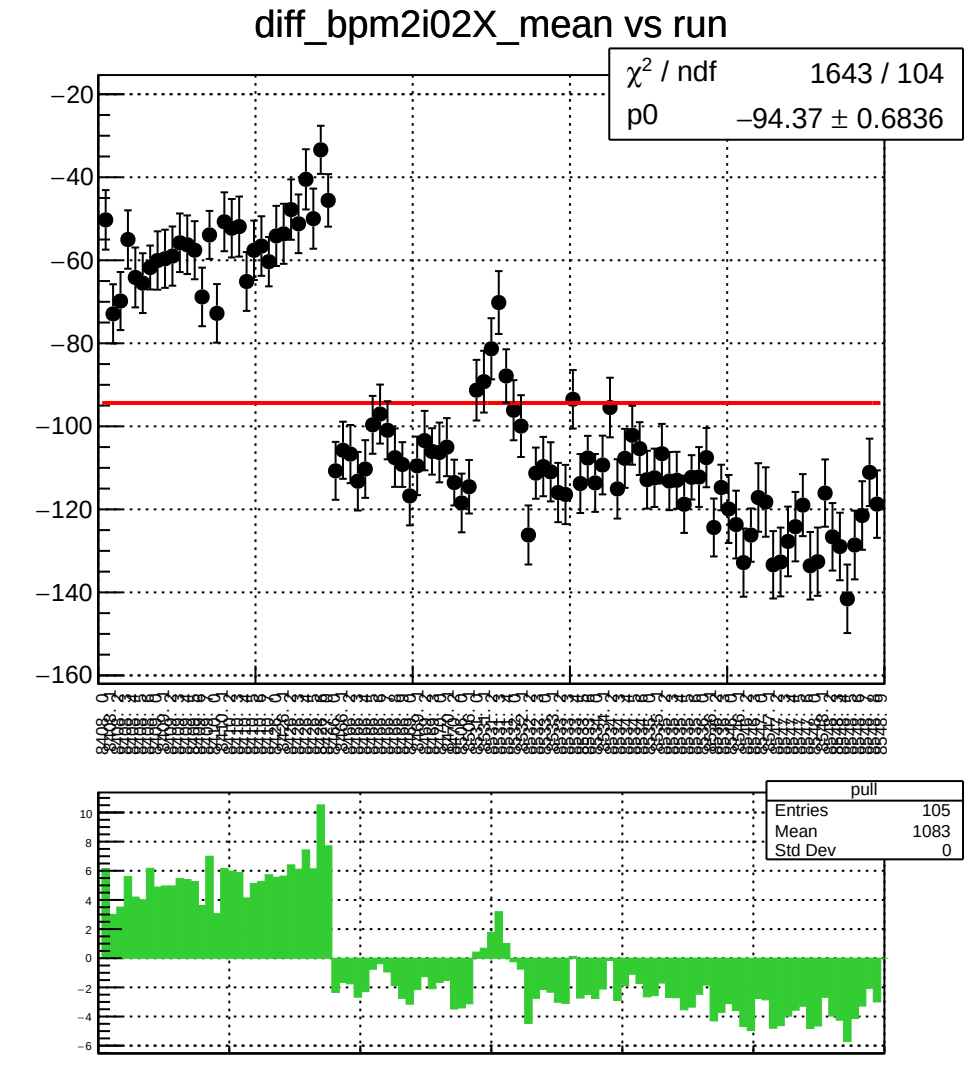

pull1D
Entries 105
Mean −0.06336
Std Dev 1.879
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

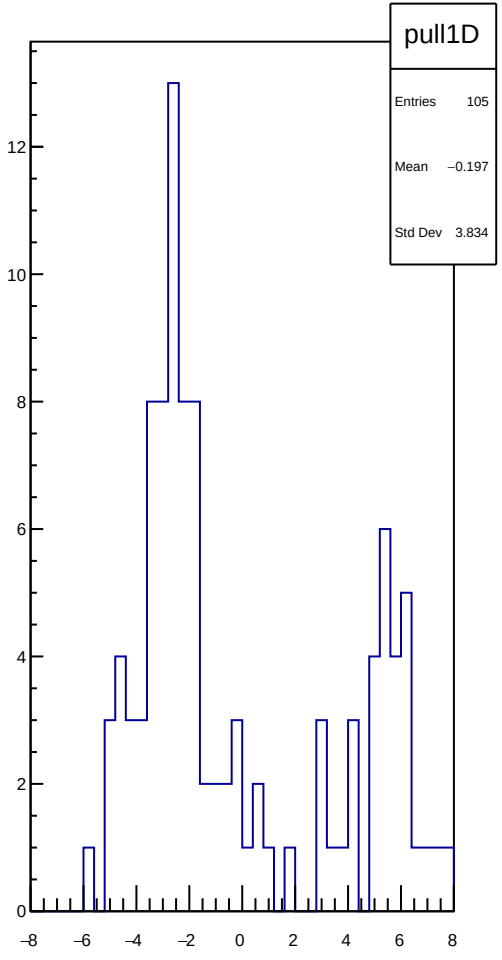

diff_bpm2i01X_rms vs run
χ² / ndf 1.225e+04 / 104
p0 574.9 ± 0.4031
720
700
680
660
640
620
600
580
560
540
520

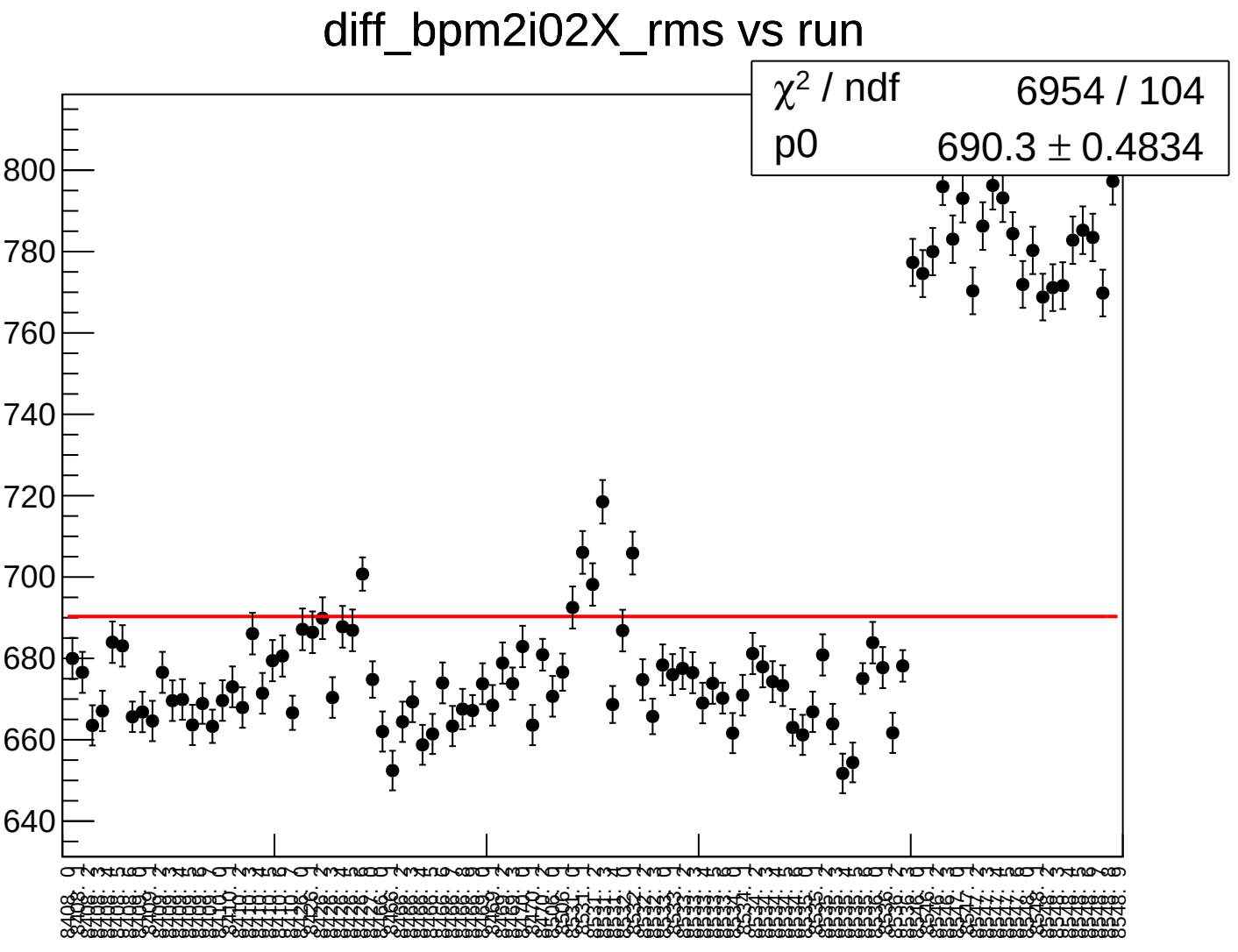

diff_bpm2i01Y_mean vs run
χ² / ndf 251.6 / 104
p0 34.19 ± 0.6718
70
60
50
40
30
20
10
0
−10
pull
Entries 105
Mean 1591
Std Dev 0
3
2
1
0
−1
−2
−3
−4
−5

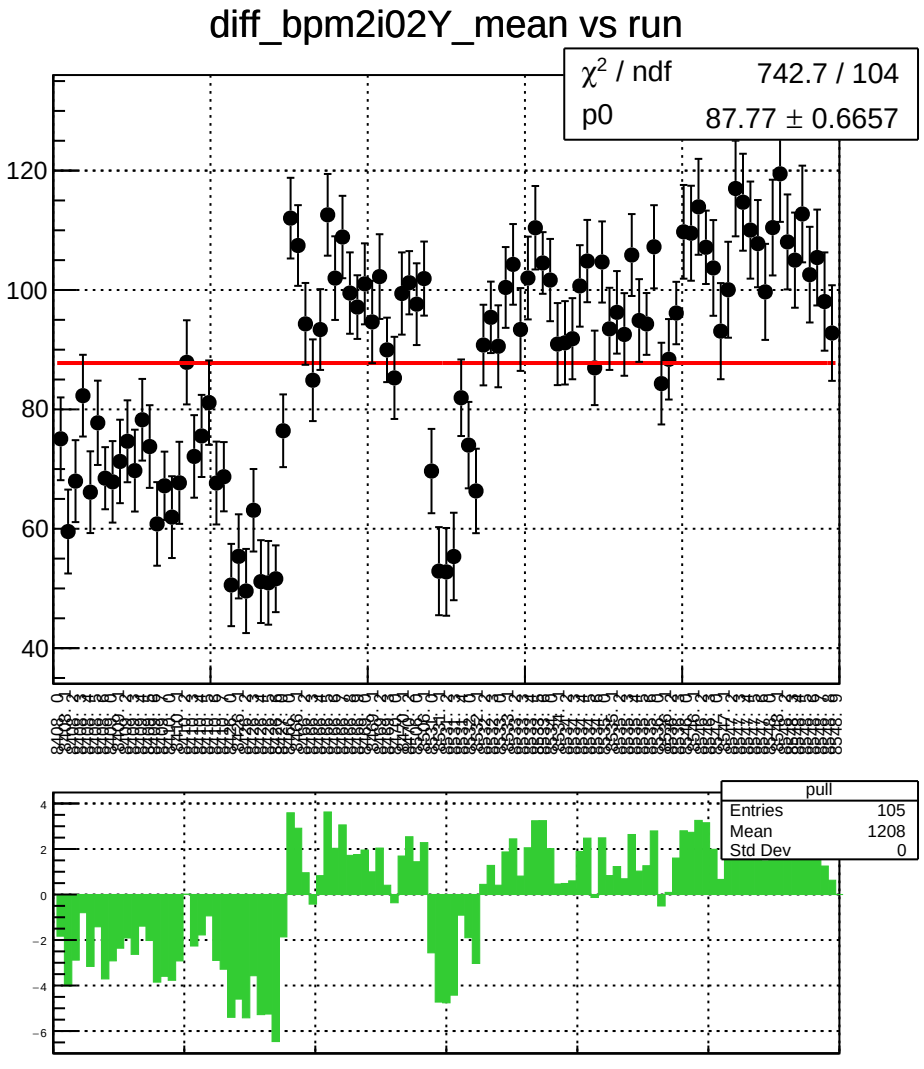

pull1D
Entries 105
Mean 0.02144
Std Dev 1.548
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

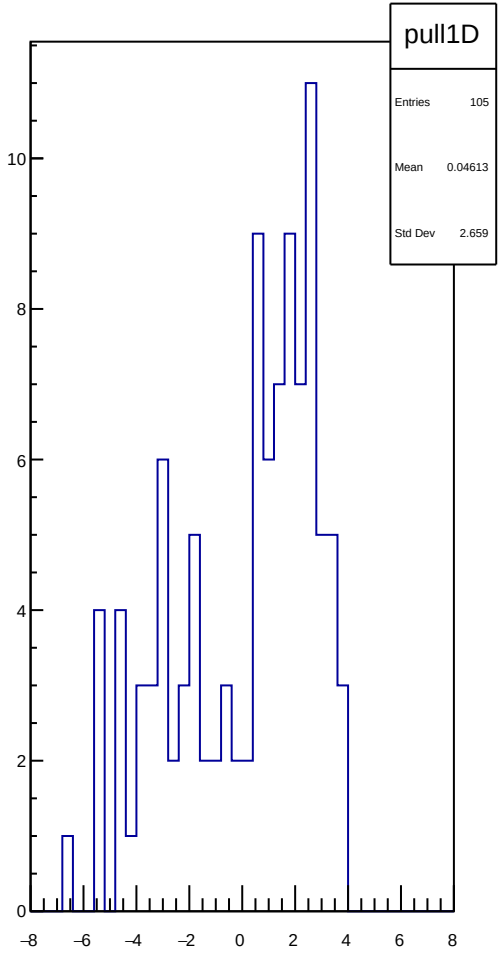

diff_bpm2i01Y_rms vs run
χ² / ndf 7426 / 104
p0 678.3 ± 0.475
780
760
740
720
700
680
660
640
620

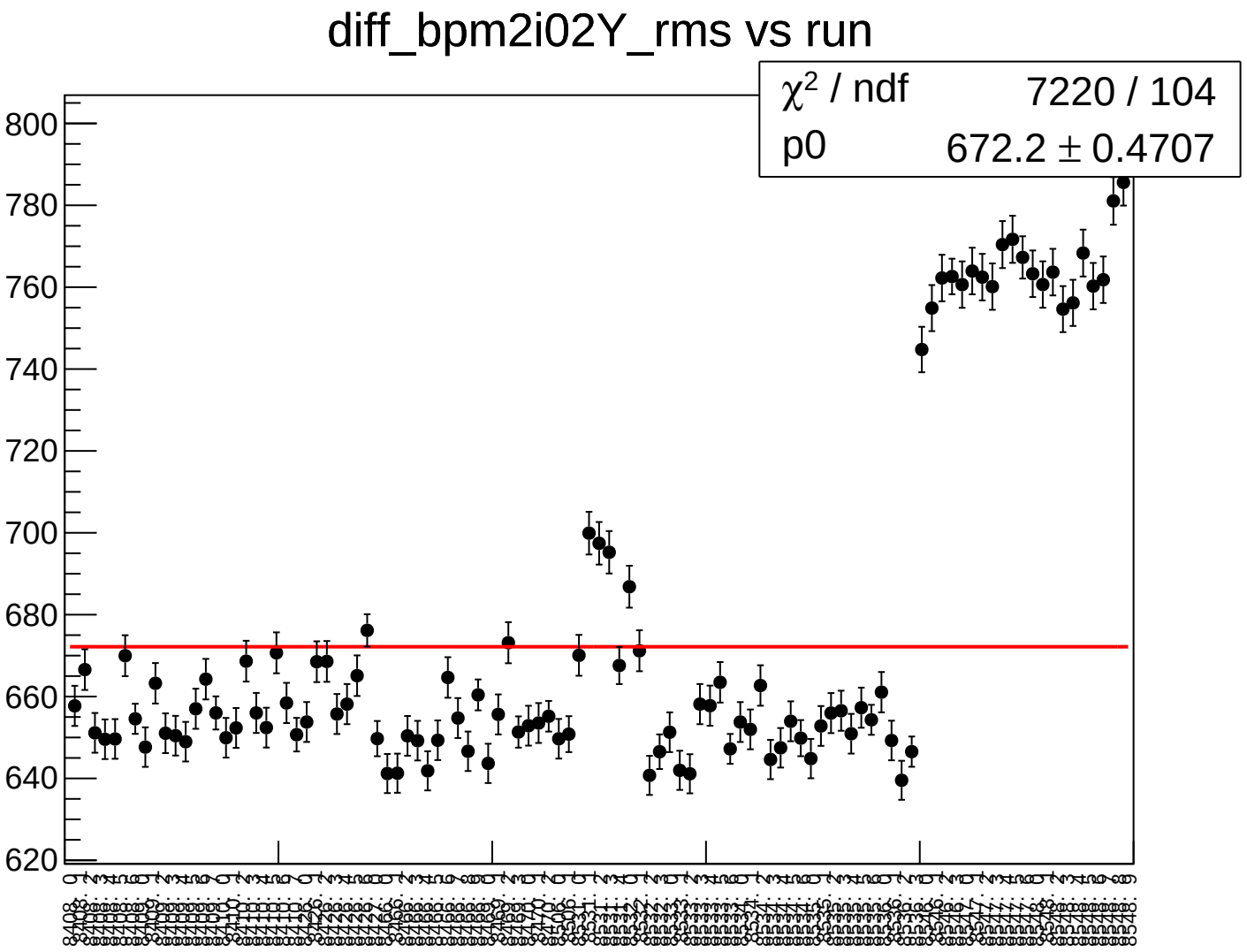

diff_bpm2i02X_mean vs run
χ² / ndf 1643 / 104
p0 −94.37 ± 0.6836
−20
−40
−60
−80
−100
−120
−140
−160
pull
Entries 105
Mean 1083
Std Dev 0
10
8
6
4
2
0
−2
−4
−6

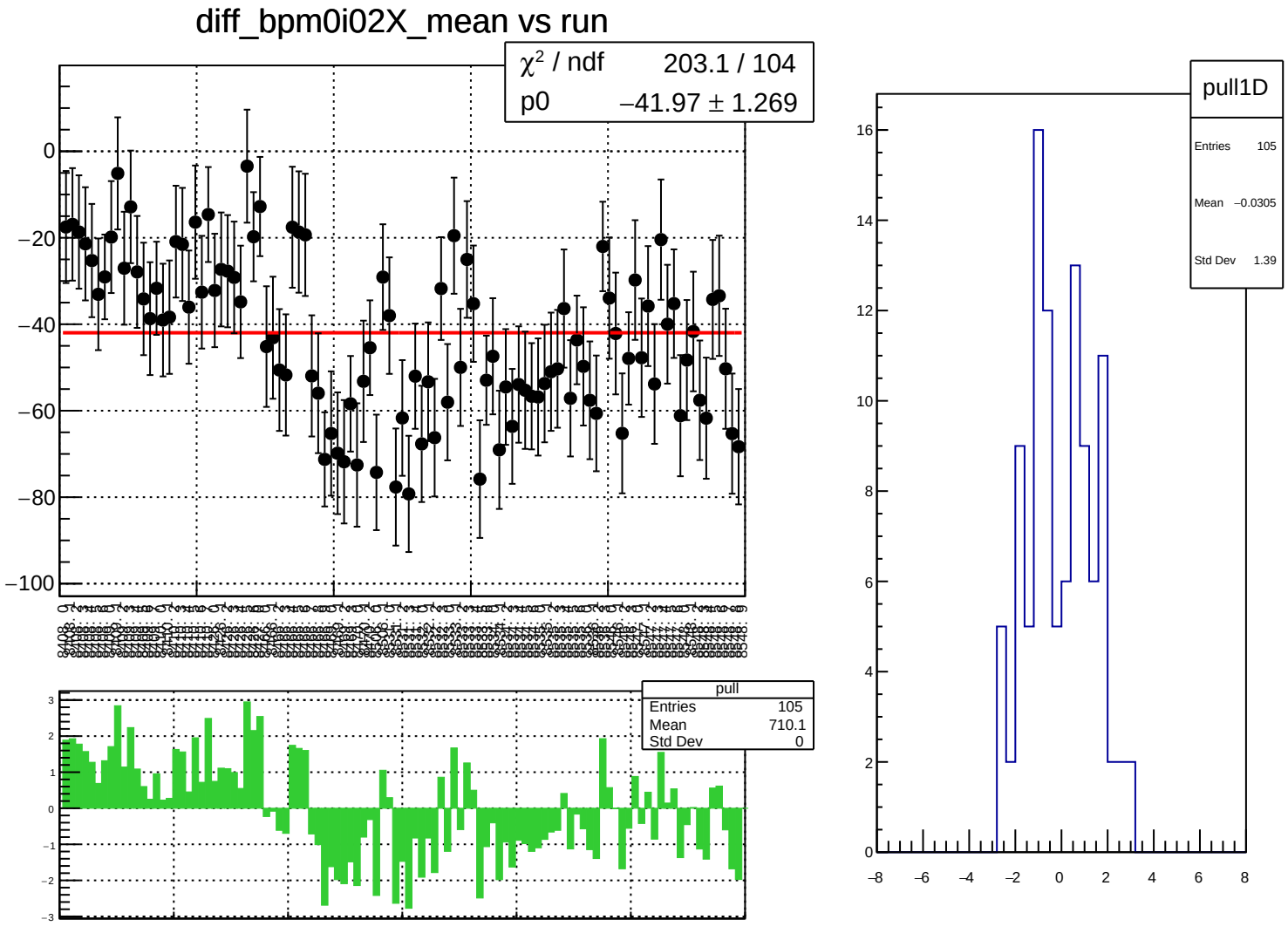

pull1D
Entries 105
Mean −0.197
Std Dev 3.834
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

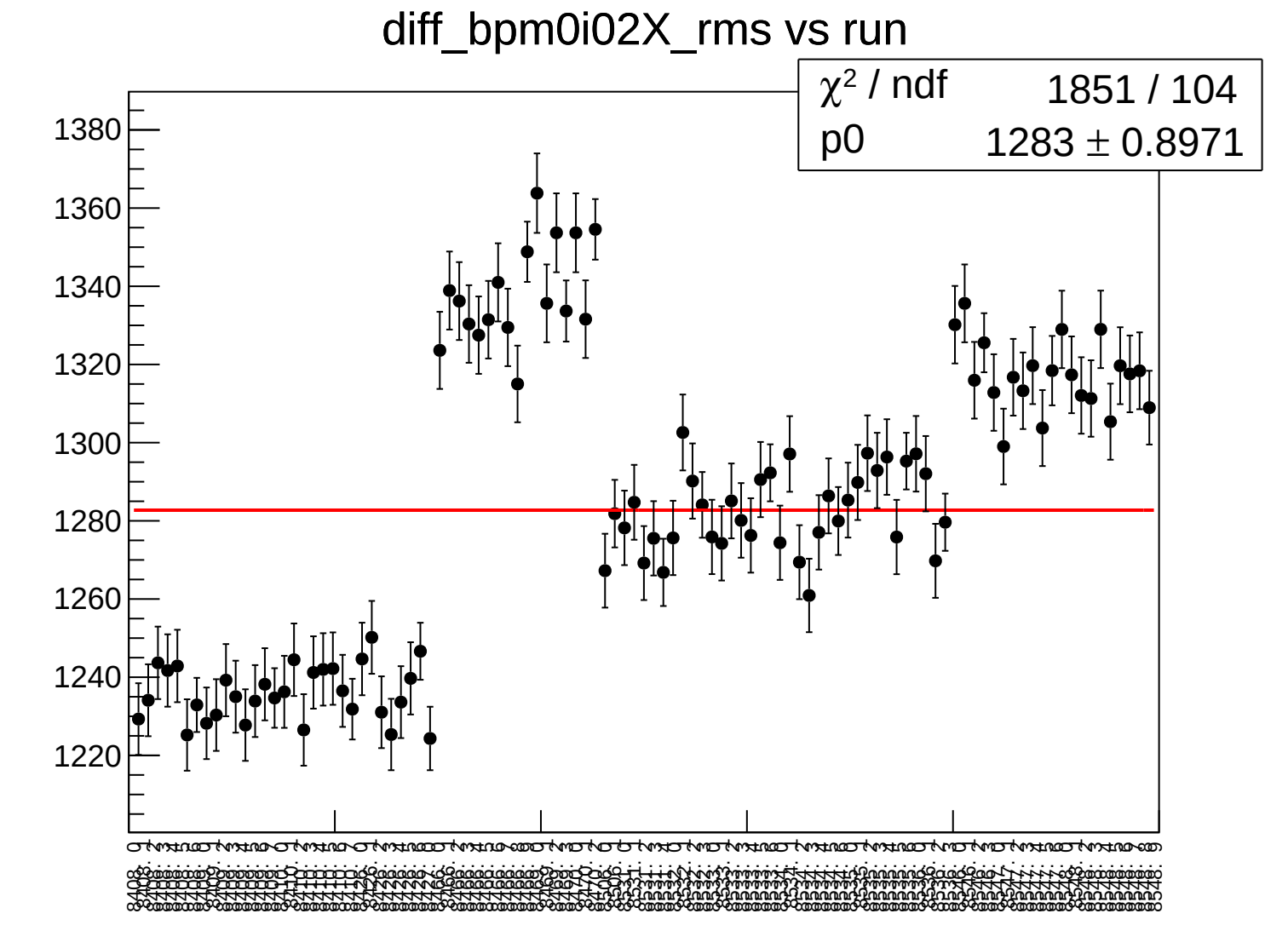

diff_bpm2i02X_rms vs run
χ² / ndf 6954 / 104
p0 690.3 ± 0.4834
800
780
760
740
720
700
680
660
640

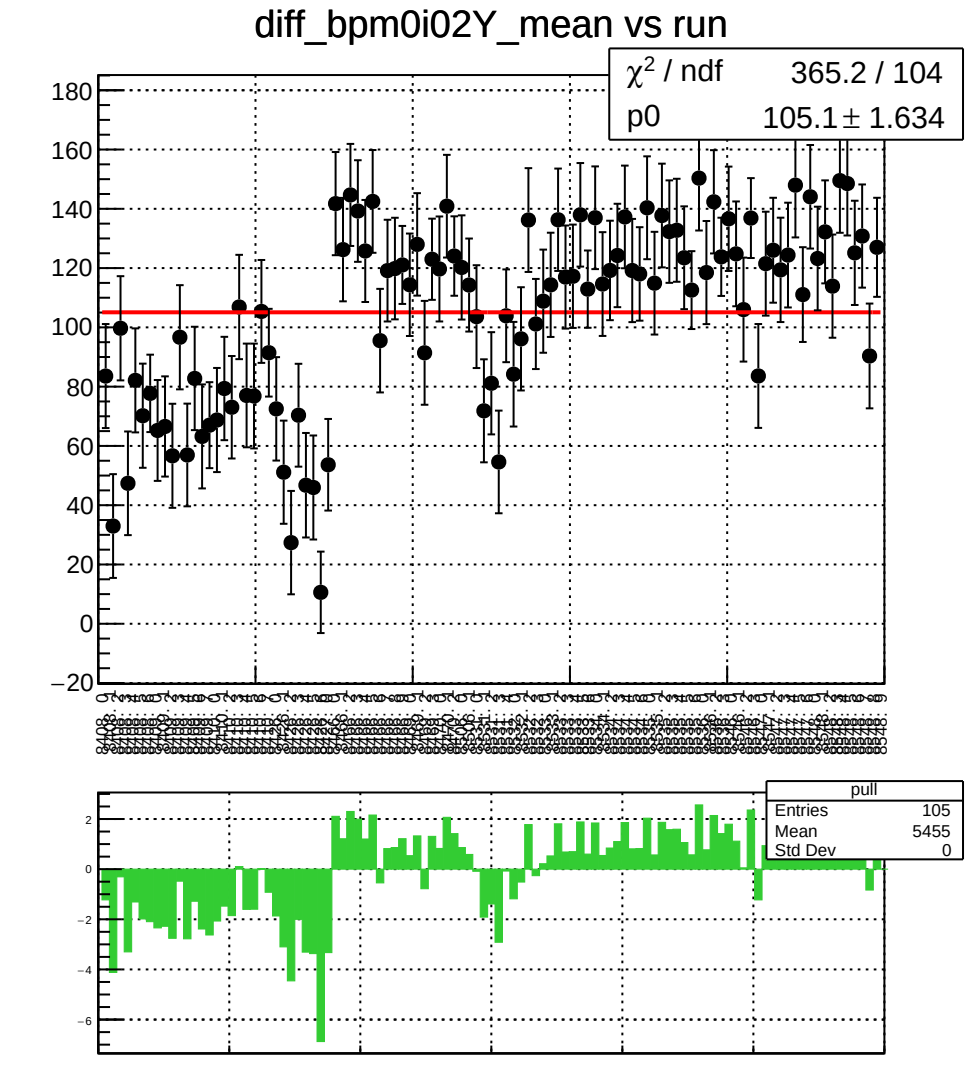

diff_bpm2i02Y_mean vs run
χ^2 / ndf 742.7 / 104
p0 87.77 ± 0.6657
120
100
80
60
40
pull
Entries 105
Mean 1208
Std Dev 0
4
2
0
−2
−4
−6

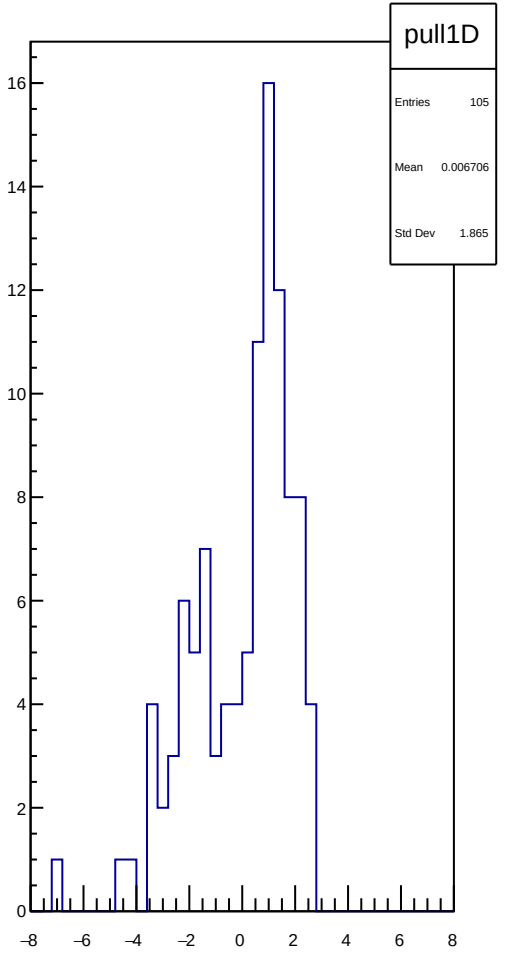

pull1D
Entries 105
Mean 0.04613
Std Dev 2.659
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

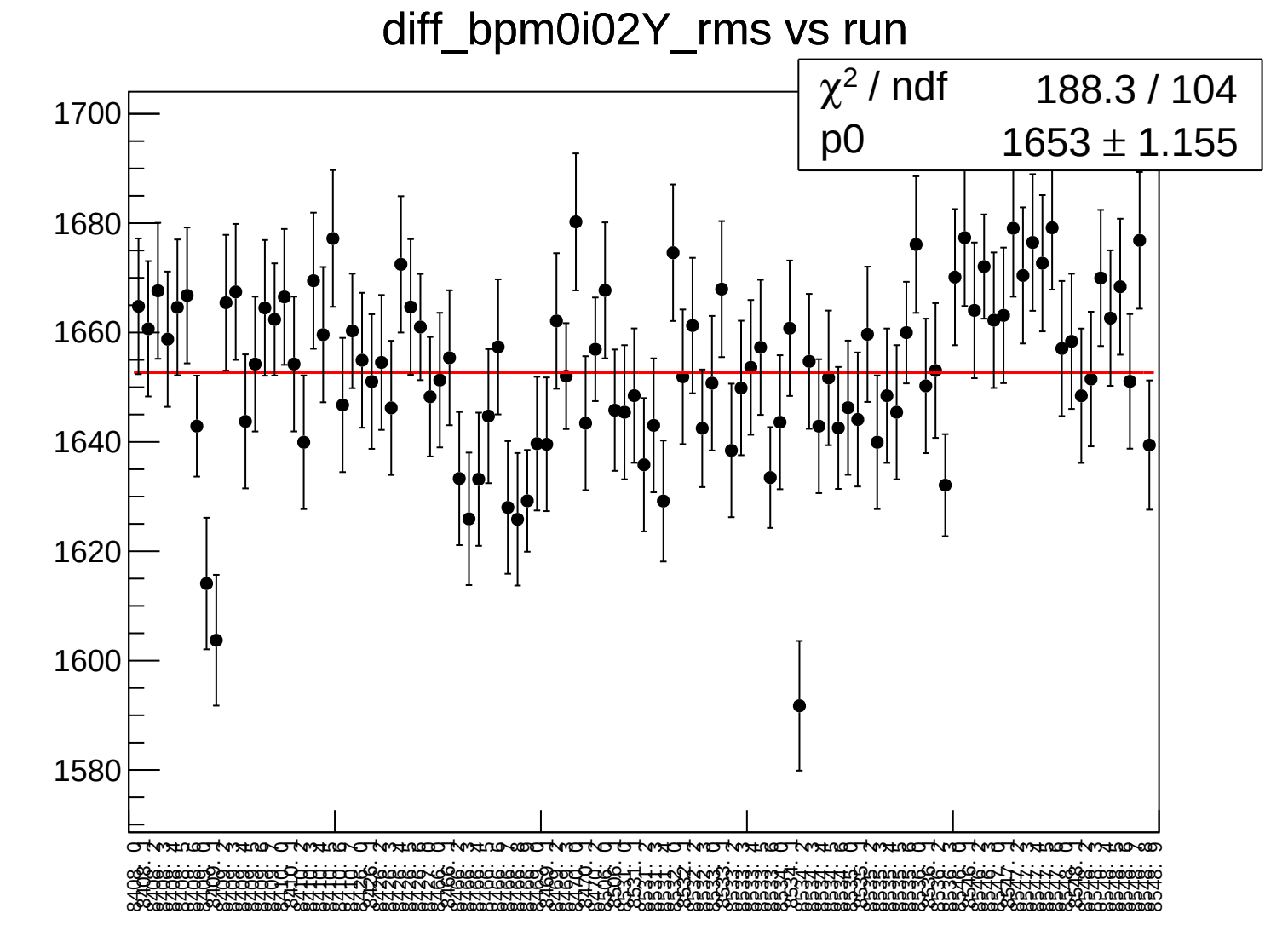

diff_bpm2i02Y_rms vs run
χ² / ndf 7220 / 104
p0 672.2 ± 0.4707
800
780
760
740
720
700
680
660
640
620

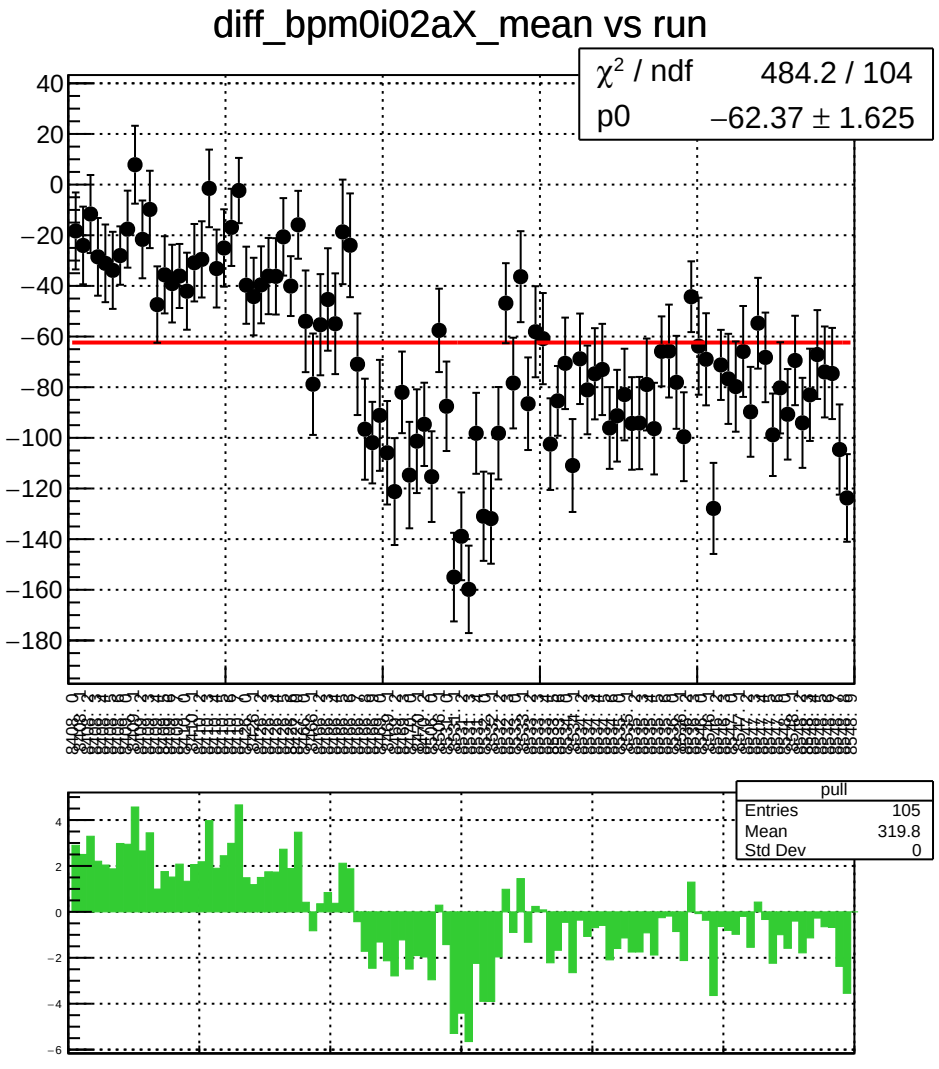

diff_bpm0i02X_mean vs run
χ² / ndf 203.1 / 104
p0 −41.97 ± 1.269
0
−20
−40
−60
−80
−100
pull
Entries 105
Mean 710.1
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 105
Mean −0.0305
Std Dev 1.39
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

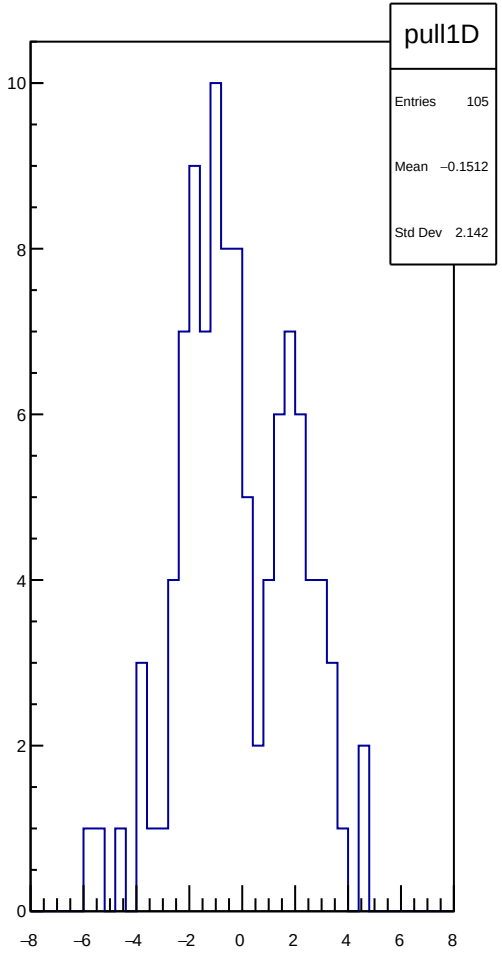

diff_bpm0i02X_rms vs run
χ² / ndf 1851 / 104
p0 1283 ± 0.8971
1380
1360
1340
1320
1300
1280
1260
1240
1220

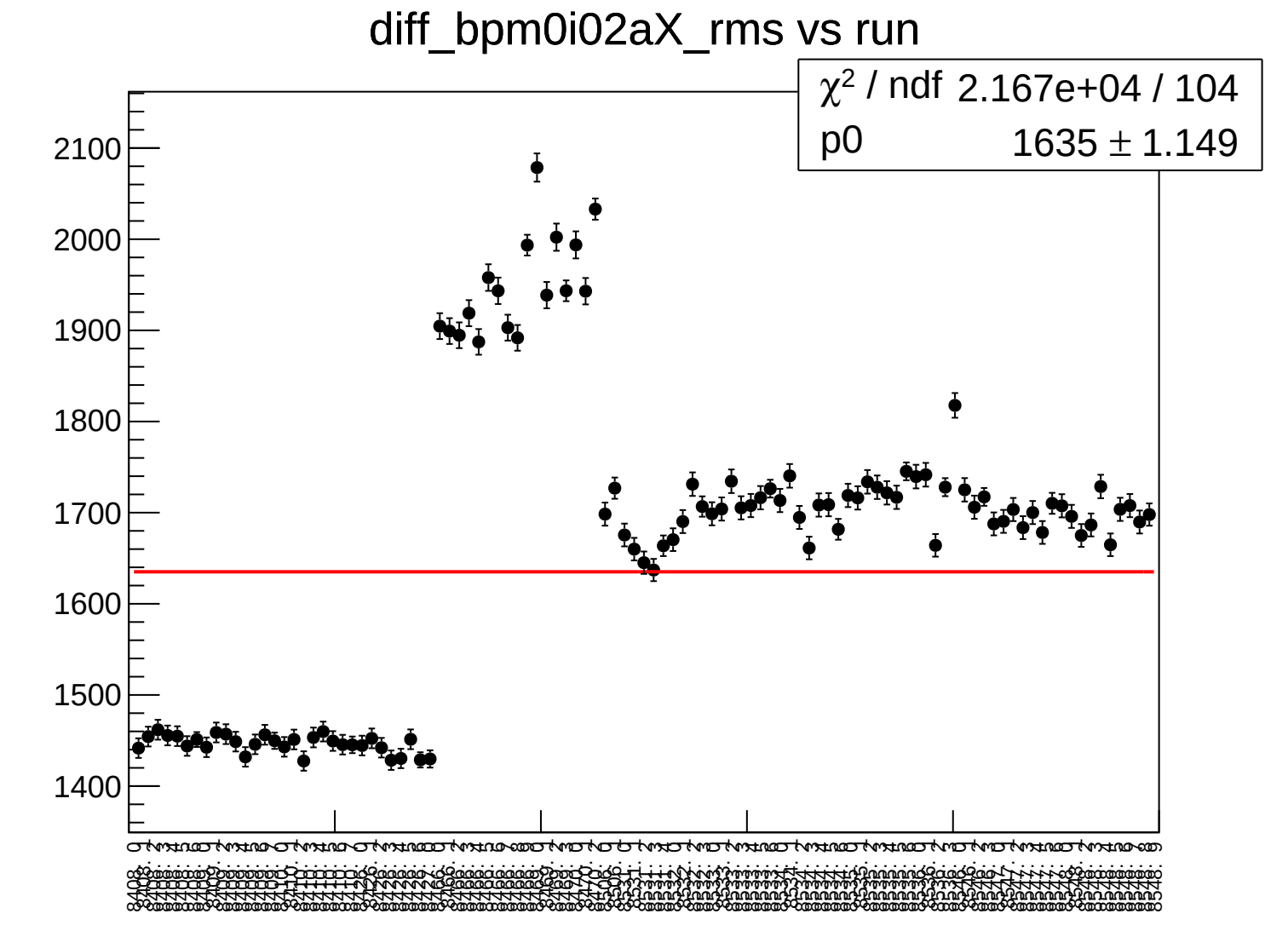

diff_bpm0i02Y_mean vs run
χ² / ndf 365.2 / 104
p0 105.1 ± 1.634
pull
Entries 105
Mean 5455
Std Dev 0

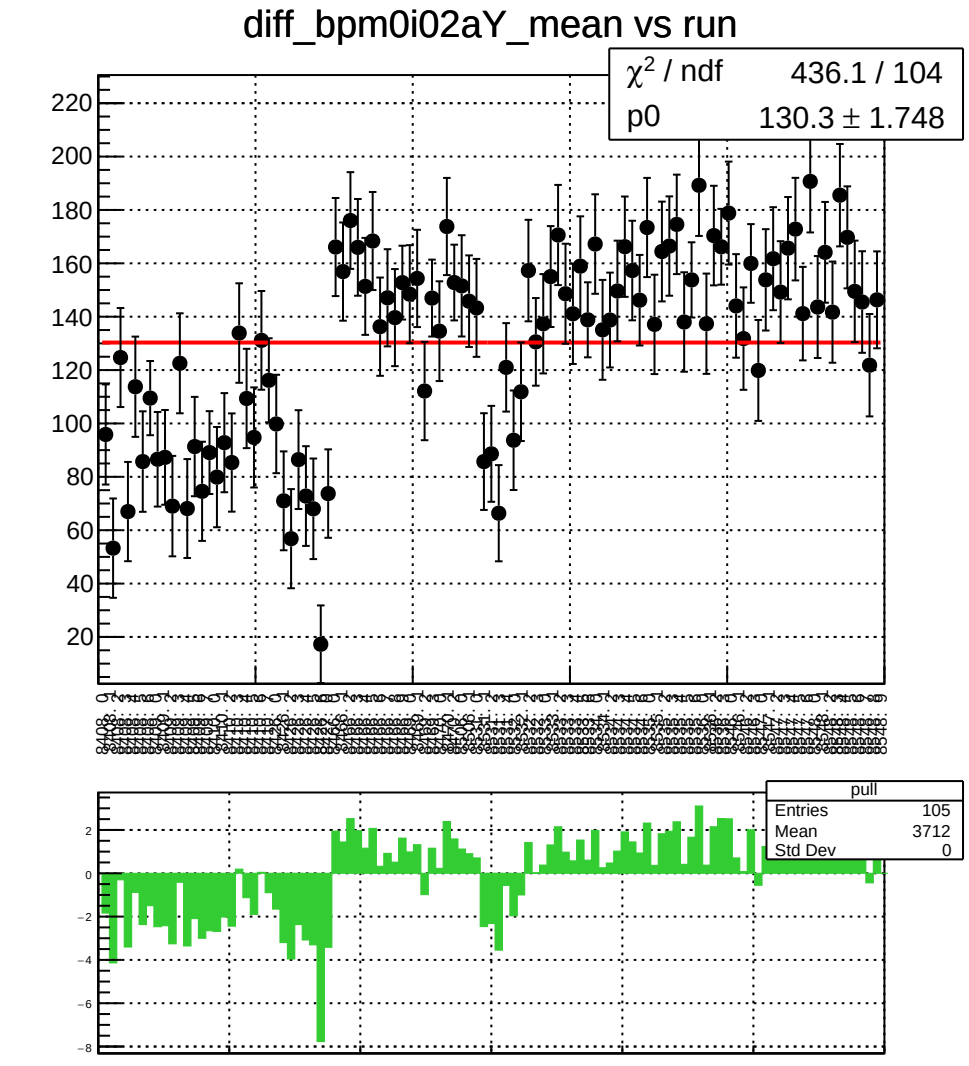

pull1D
Entries 105
Mean 0.006706
Std Dev 1.865

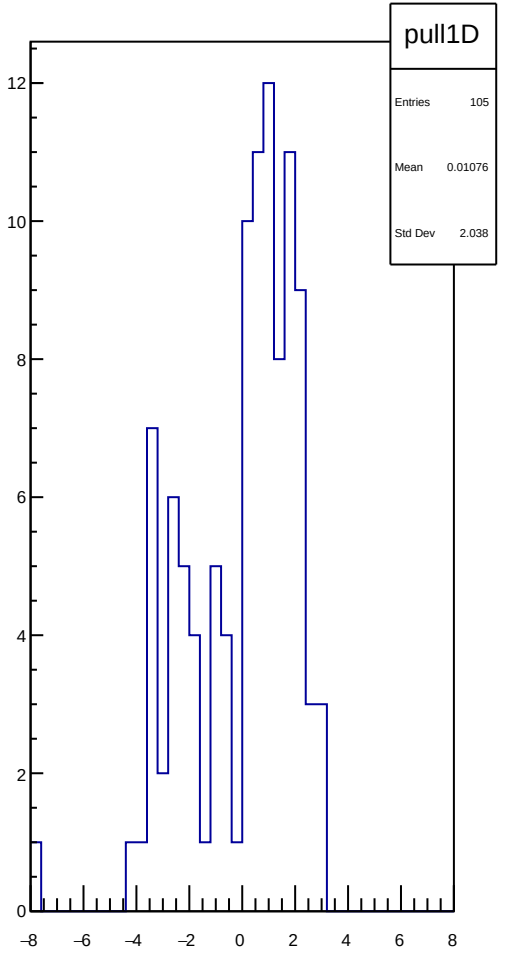

diff_bpm0i02Y_rms vs run
χ² / ndf 188.3 / 104
p0 1653 ± 1.155
1700
1680
1660
1640
1620
1600
1580

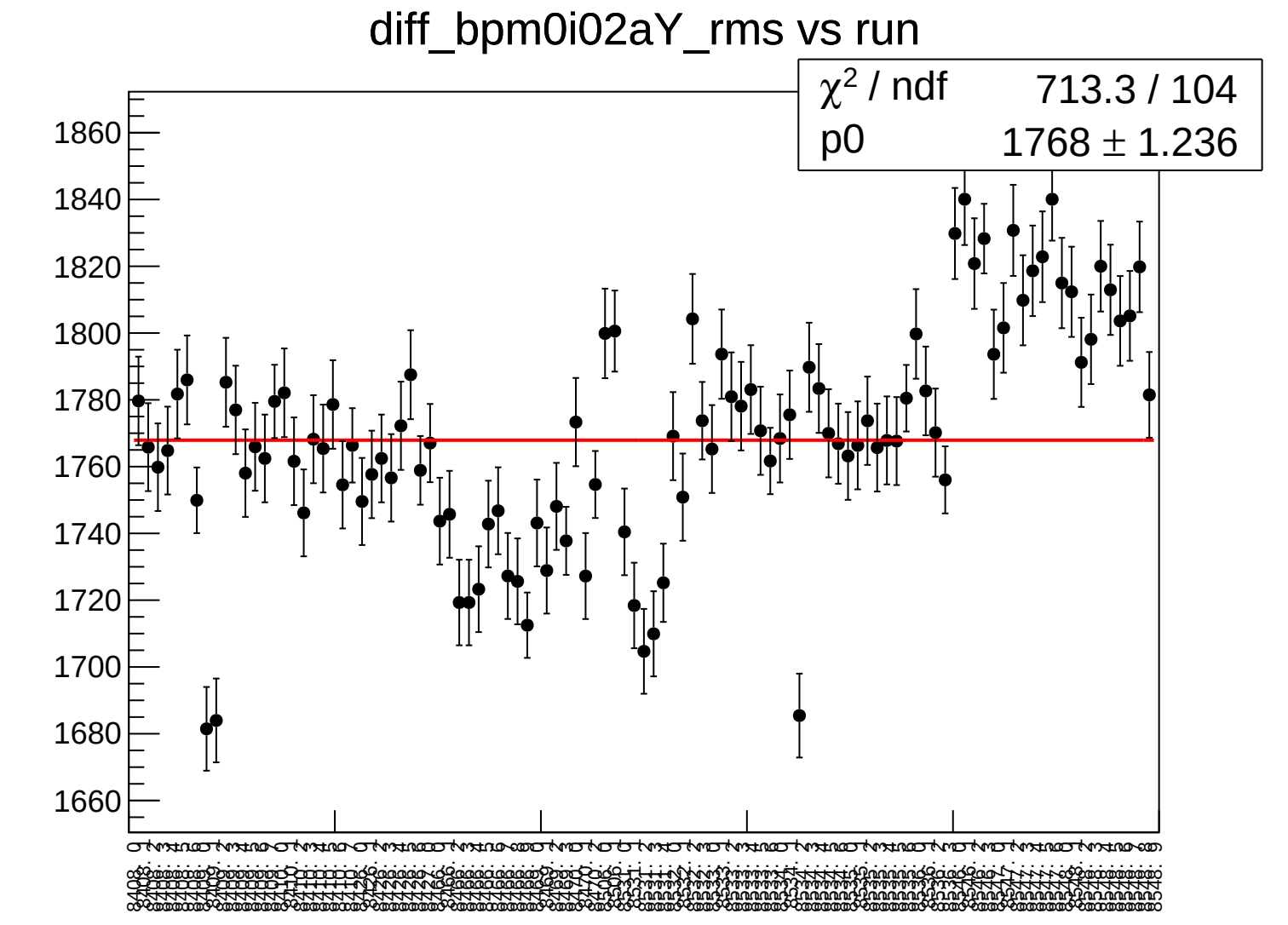

diff_bpm0i02aX_mean vs run
χ² / ndf 484.2 / 104
p0 −62.37 ± 1.625
pull
Entries 105
Mean 319.8
Std Dev 0

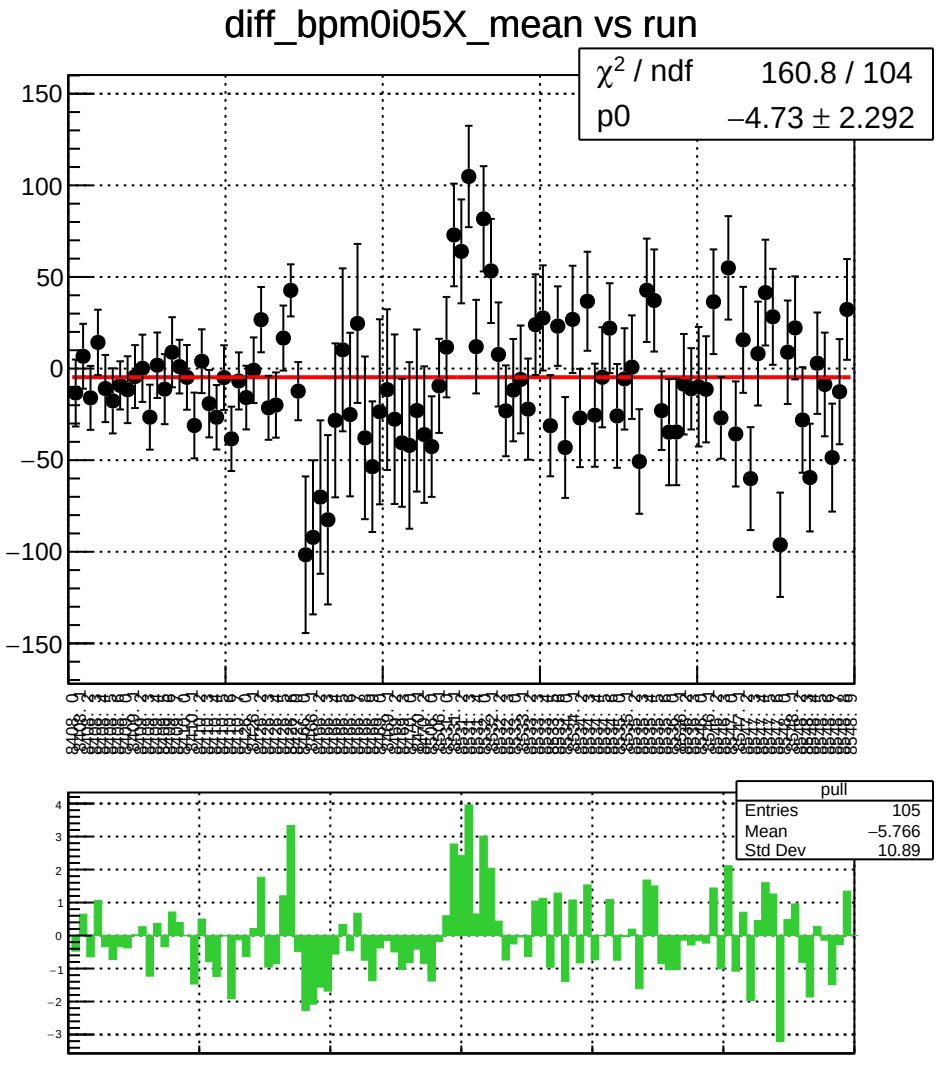

pull1D
Entries 105
Mean −0.1512
Std Dev 2.142

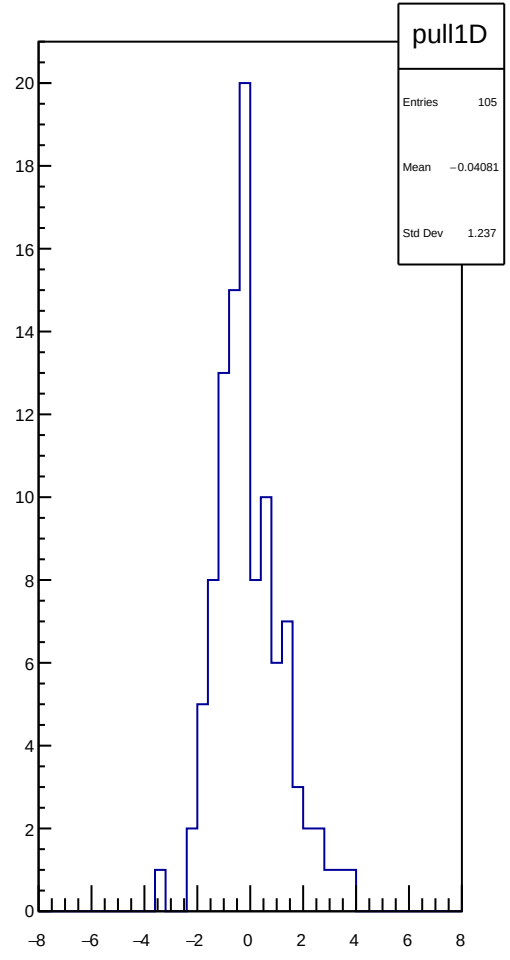

diff_bpm0i02aX_rms vs run
χ² / ndf 2.167e+04 / 104
p0 1635 ± 1.149
2100
2000
1900
1800
1700
1600
1500
1400

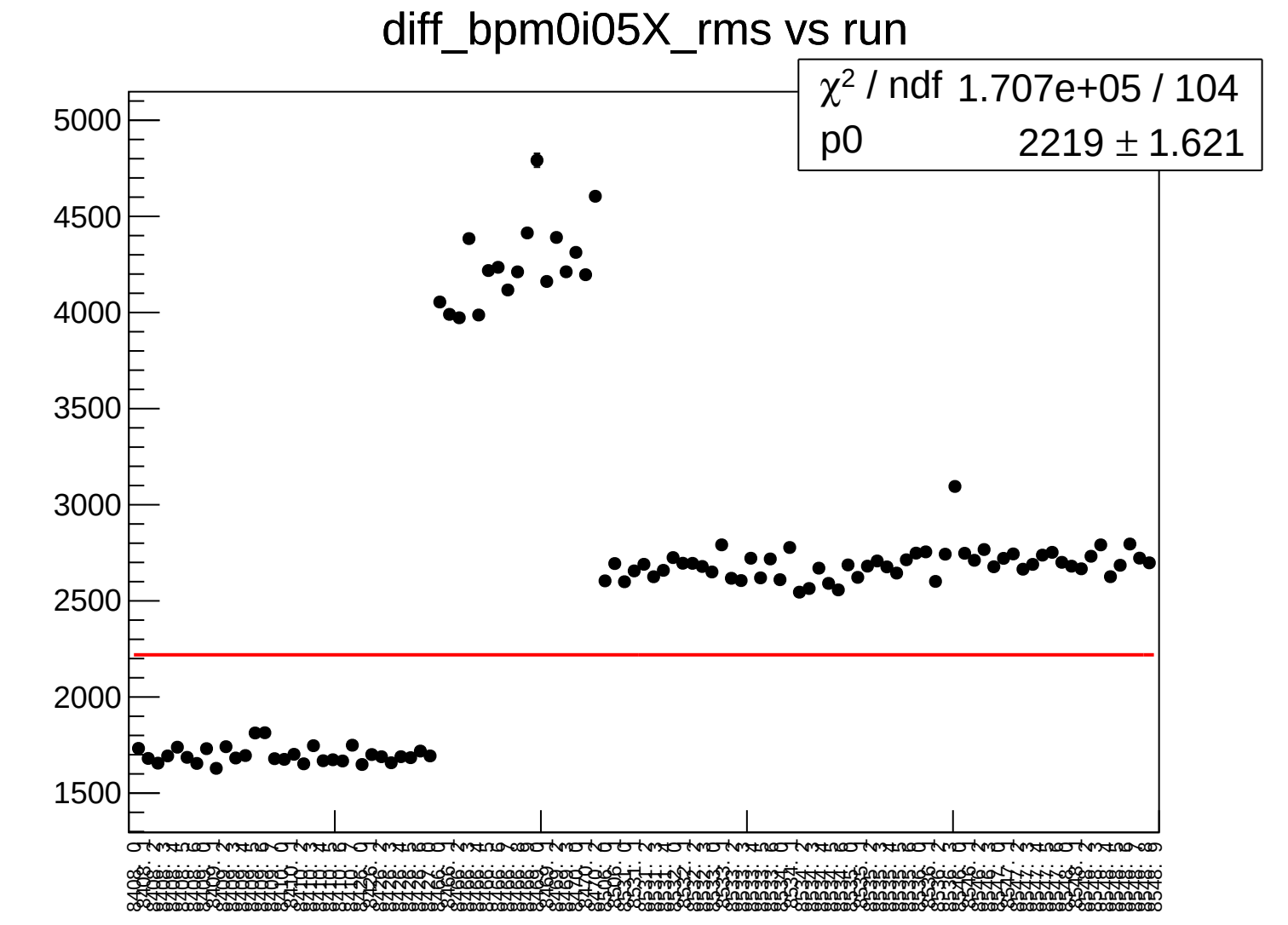

diff_bpm0i02aY_mean vs run
χ² / ndf 436.1 / 104
p0 130.3 ± 1.748
pull
Entries 105
Mean 3712
Std Dev 0

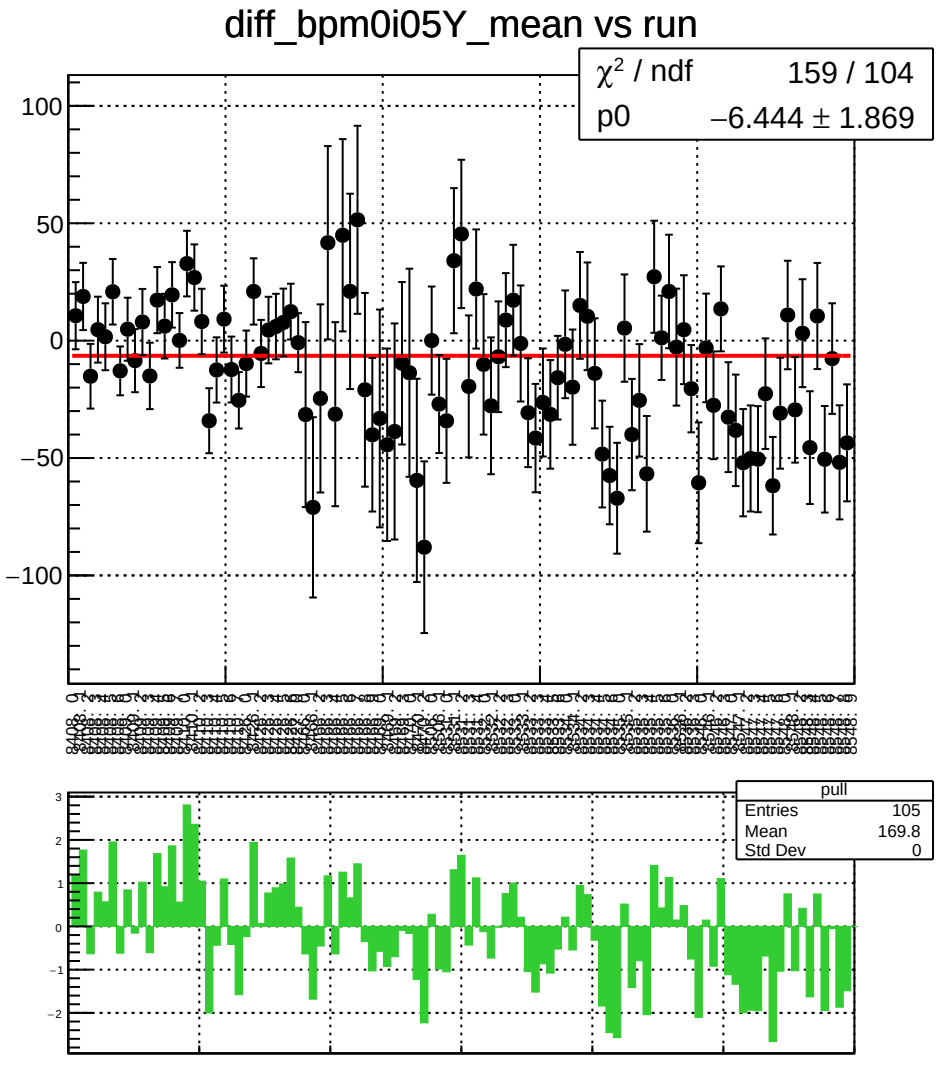

pull1D
Entries 105
Mean 0.01076
Std Dev 2.038

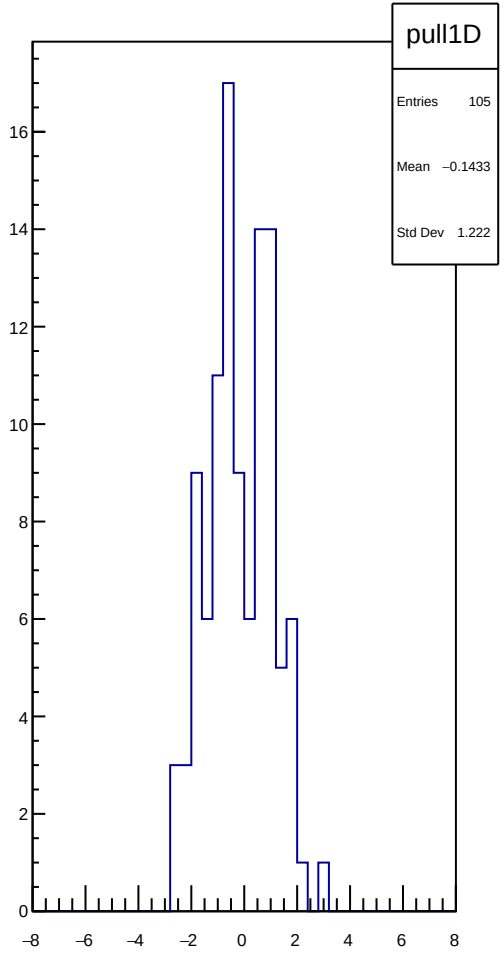

diff_bpm0i02aY_rms vs run
χ^2 / ndf 713.3 / 104
p0 1768 ± 1.236
1860
1840
1820
1800
1780
1760
1740
1720
1700
1680
1660

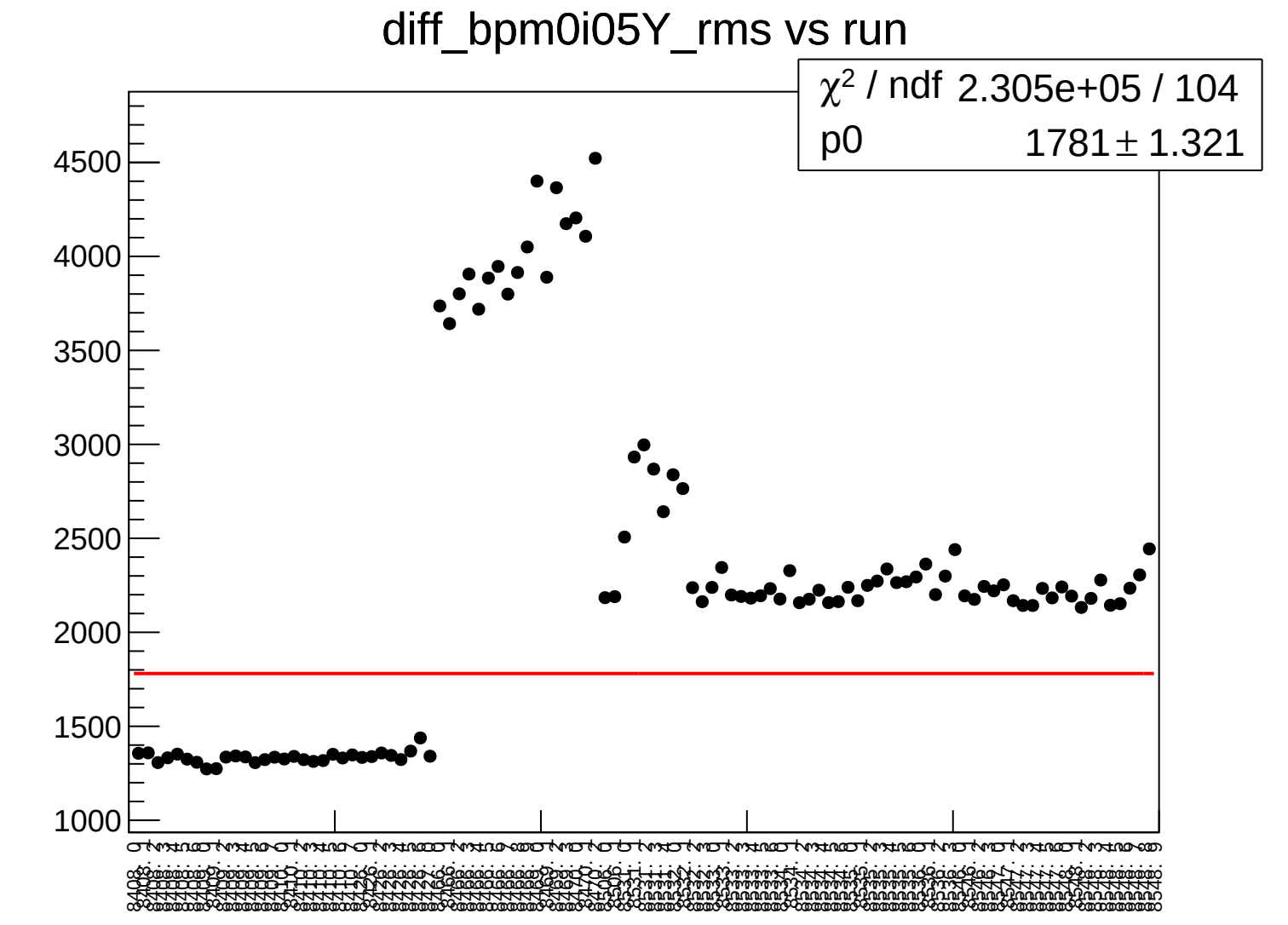

diff_bpm0i05X_mean vs run
χ² / ndf 160.8 / 104
p0 −4.73 ± 2.292
150
100
50
0
−50
−100
−150
pull
Entries 105
Mean −5.766
Std Dev 10.89
4
3
2
1
0
−1
−2
−3

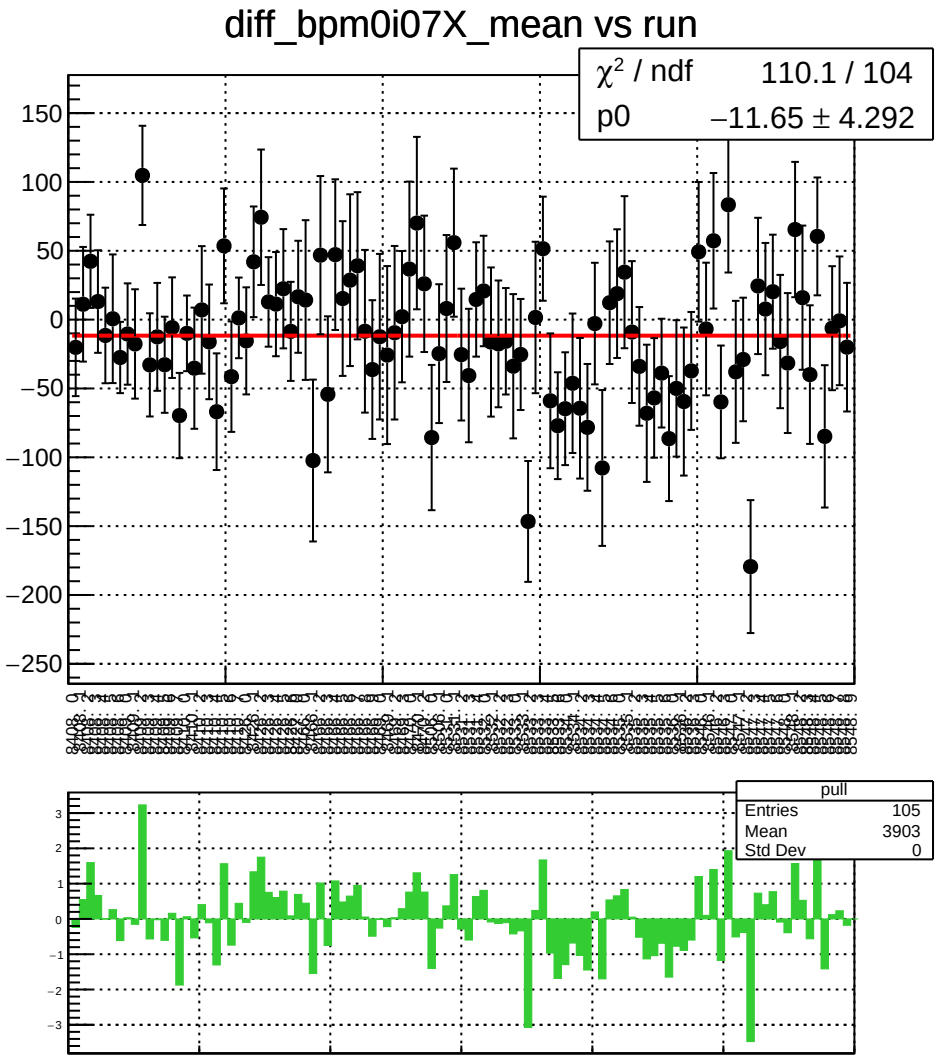

pull1D
Entries 105
Mean −0.04081
Std Dev 1.237
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

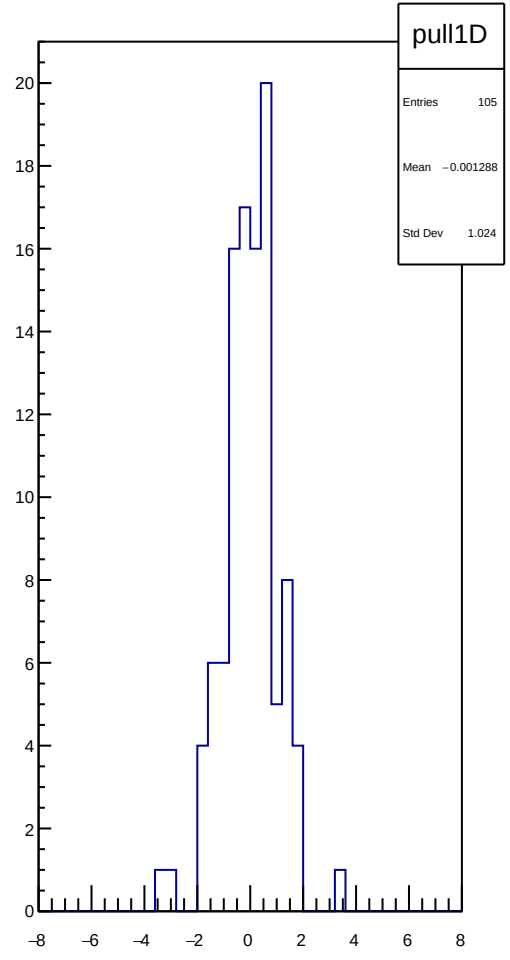

diff_bpm0i05X_rms vs run
χ^2 / ndf 1.707e+05 / 104
p0 2219 ± 1.621
5000
4500
4000
3500
3000
2500
2000
1500

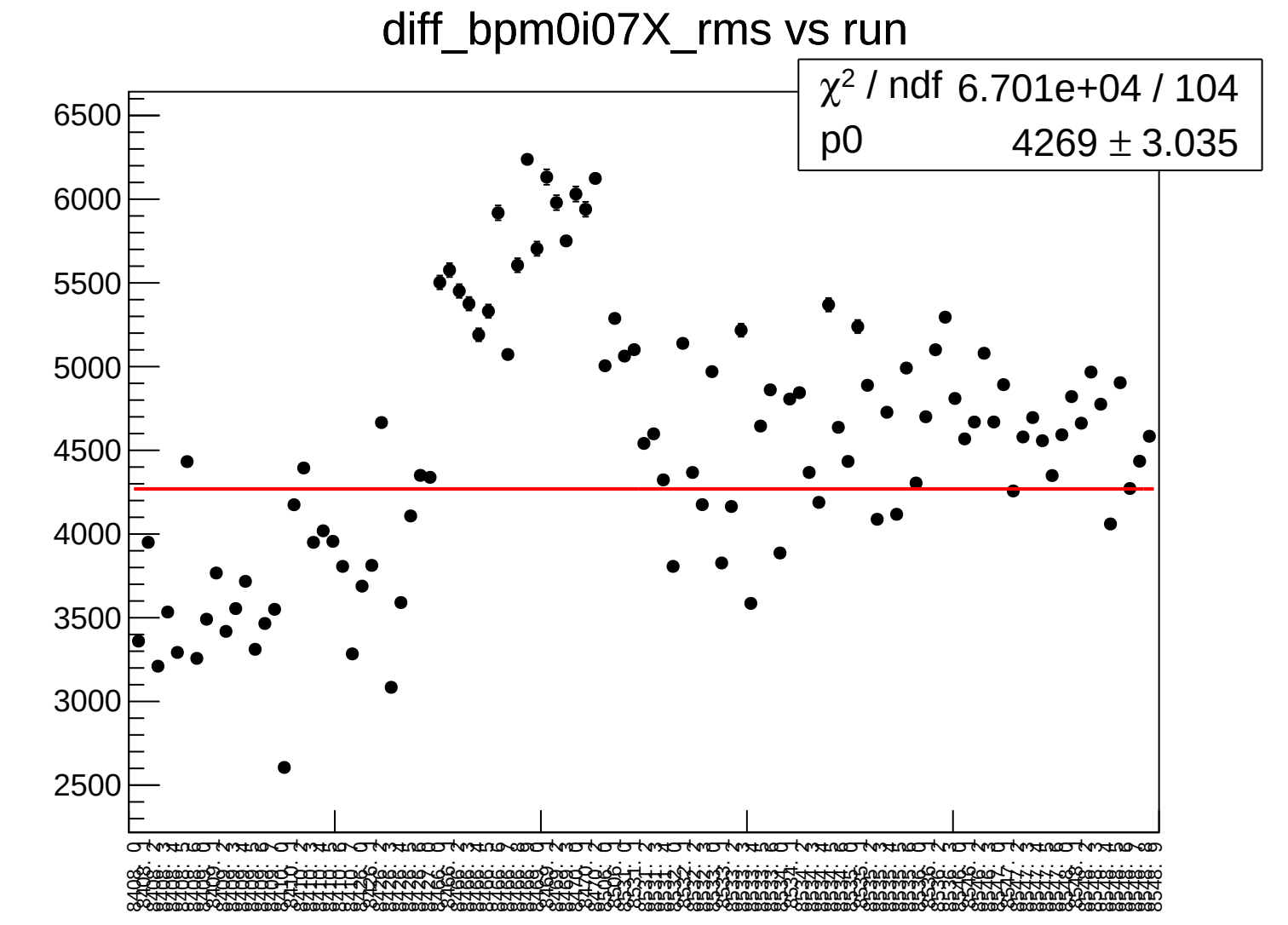

diff_bpm0i05Y_mean vs run
χ² / ndf 159 / 104
p0 −6.444 ± 1.869
100
50
0
−50
−100
pull
Entries 105
Mean 169.8
Std Dev 0
3
2
1
0
−1
−2

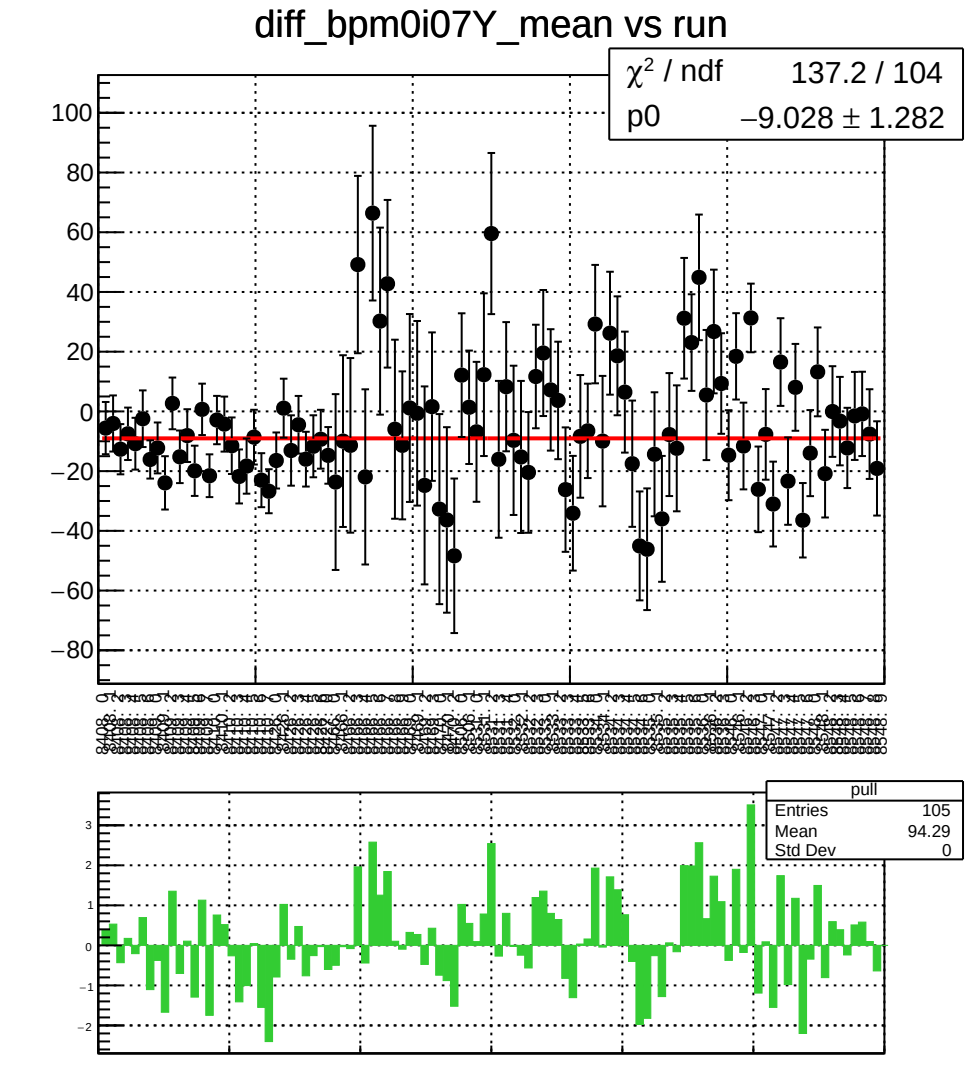

pull1D
Entries 105
Mean −0.1433
Std Dev 1.222
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

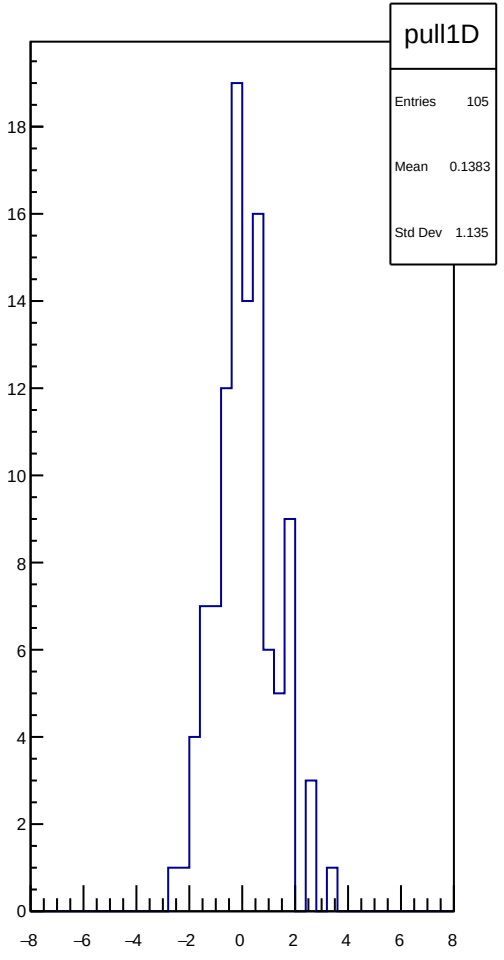

diff_bpm0i05Y_rms vs run
χ² / ndf 2.305e+05 / 104
p0 1781 ± 1.321
4500
4000
3500
3000
2500
2000
1500
1000

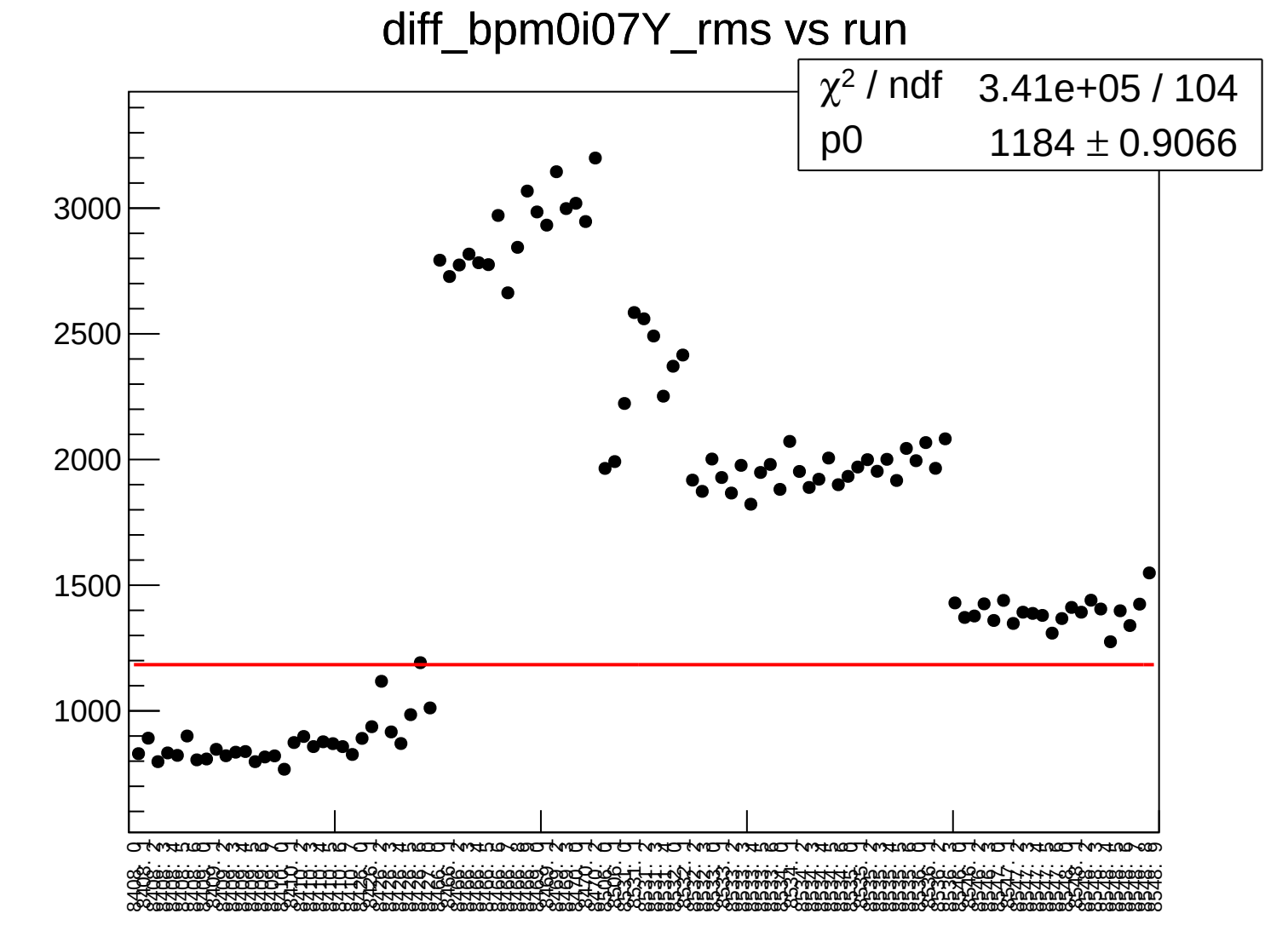

diff_bpm0i07X_mean vs run
χ² / ndf 110.1 / 104
p0 −11.65 ± 4.292
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 105
Mean 3903
Std Dev 0
3
2
1
0
−1
−2
−3

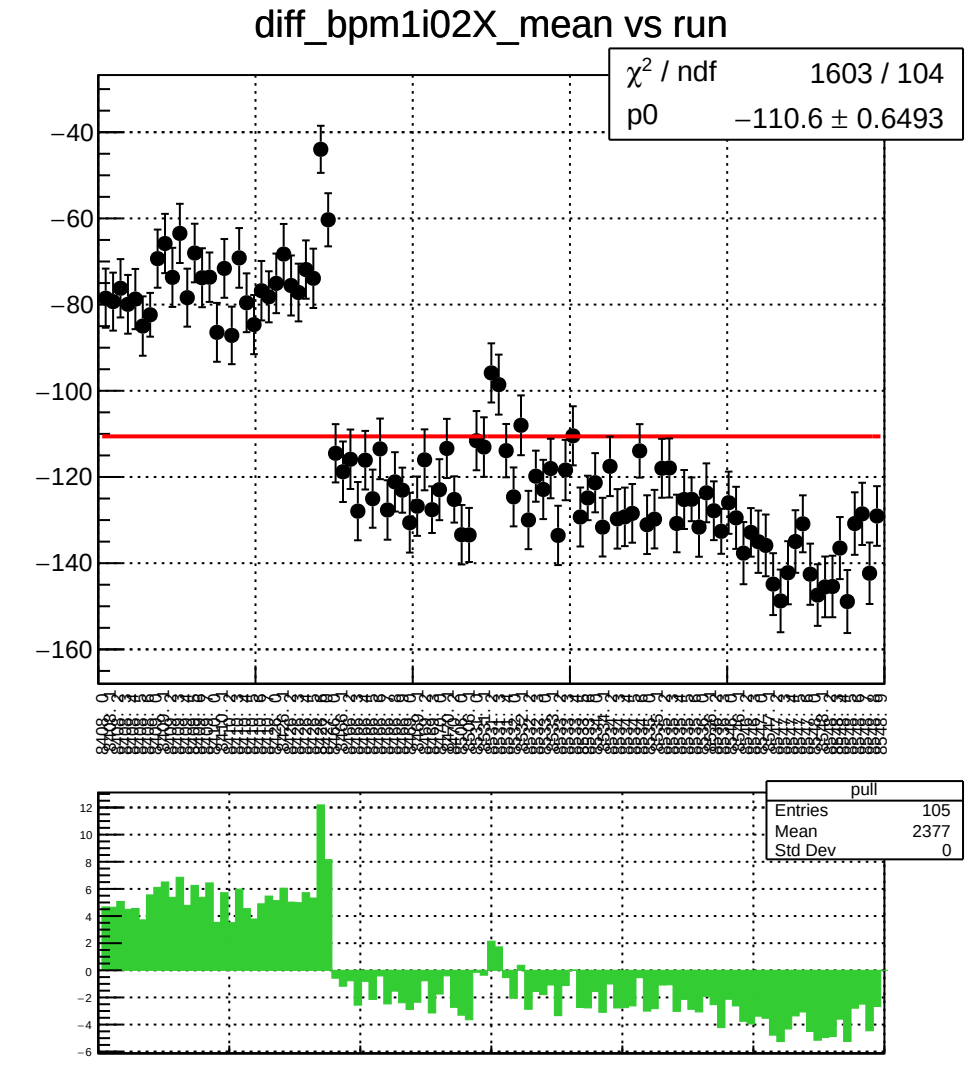

pull1D
Entries 105
Mean −0.001288
Std Dev 1.024
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

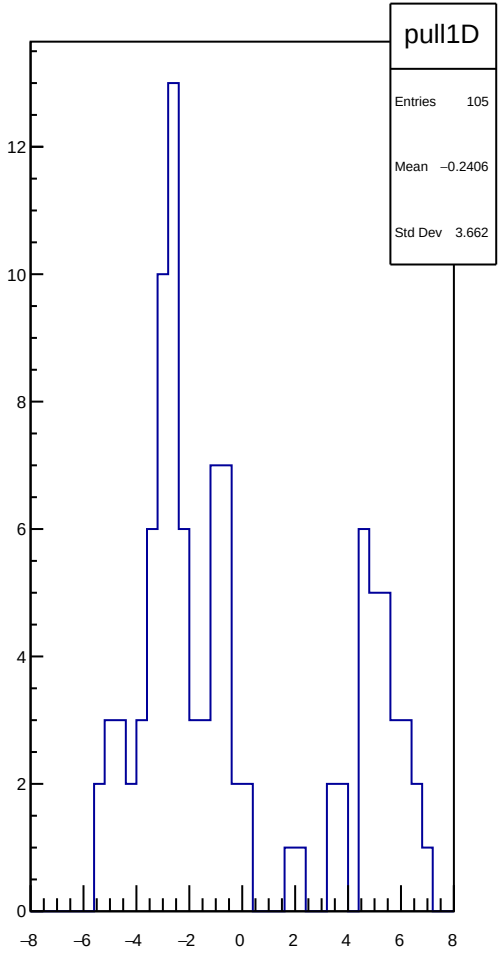

diff_bpm0i07X_rms vs run
χ² / ndf 6.701e+04 / 104
p0 4269 ± 3.035
6500
6000
5500
5000
4500
4000
3500
3000
2500

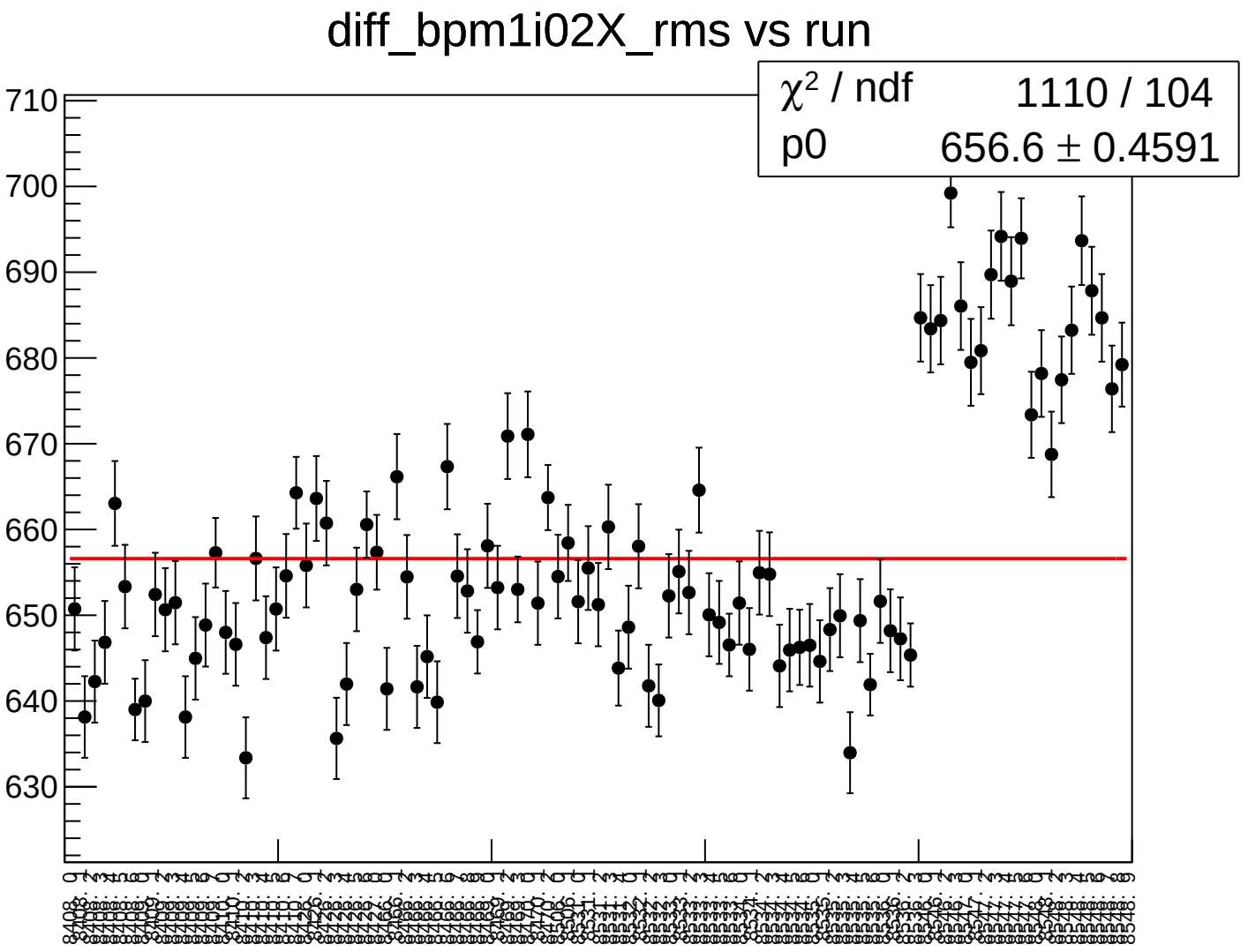

diff_bpm0i07Y_mean vs run
χ² / ndf 137.2 / 104
p0 −9.028 ± 1.282
pull
Entries 105
Mean 94.29
Std Dev 0

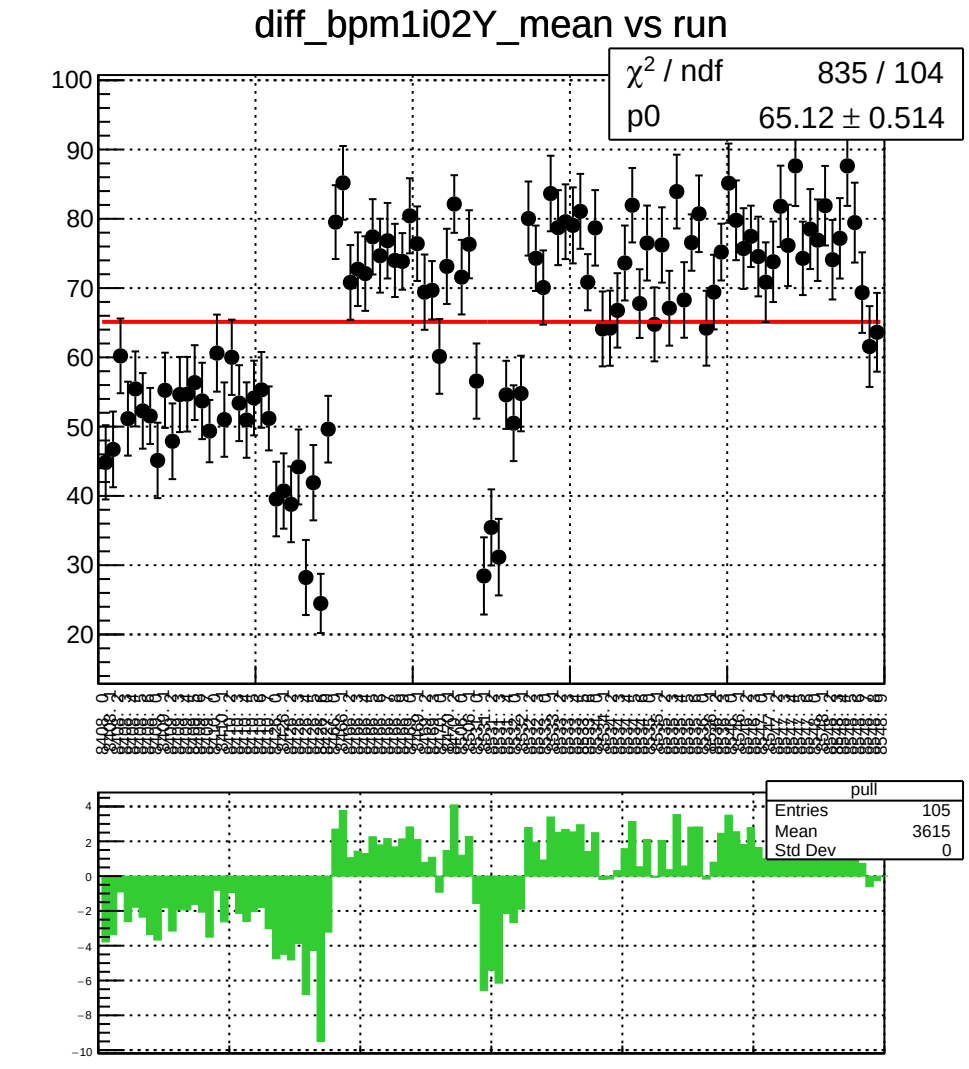

pull1D
Entries 105
Mean 0.1383
Std Dev 1.135

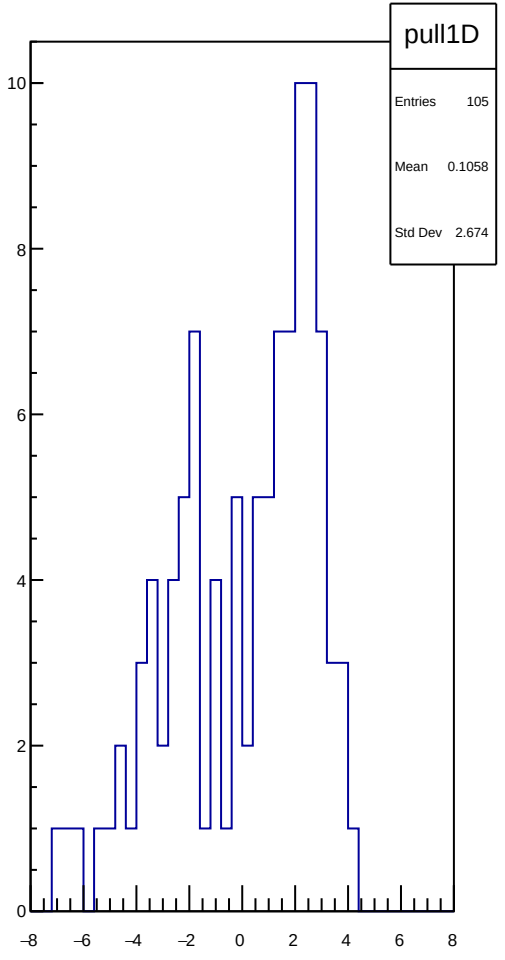

diff_bpm0i07Y_rms vs run
χ² / ndf 3.41e+05 / 104
p0 1184 ± 0.9066
3000
2500
2000
1500
1000

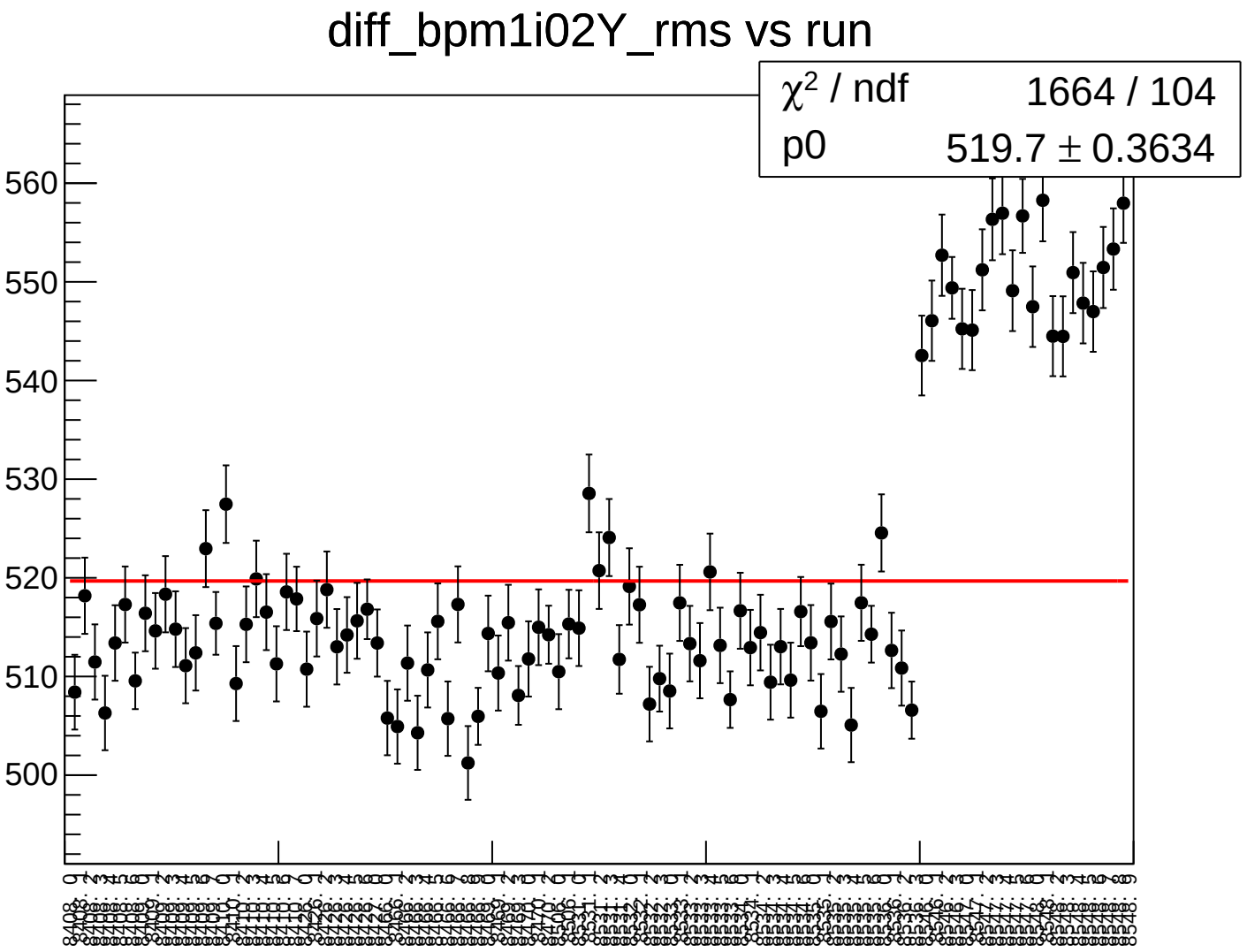

diff_bpm1i02X_mean vs run
χ² / ndf 1603 / 104
p0 −110.6 ± 0.6493
−40
−60
−80
−100
−120
−140
−160
pull
Entries 105
Mean 2377
Std Dev 0
12
10
8
6
4
2
0
−2
−4
−6

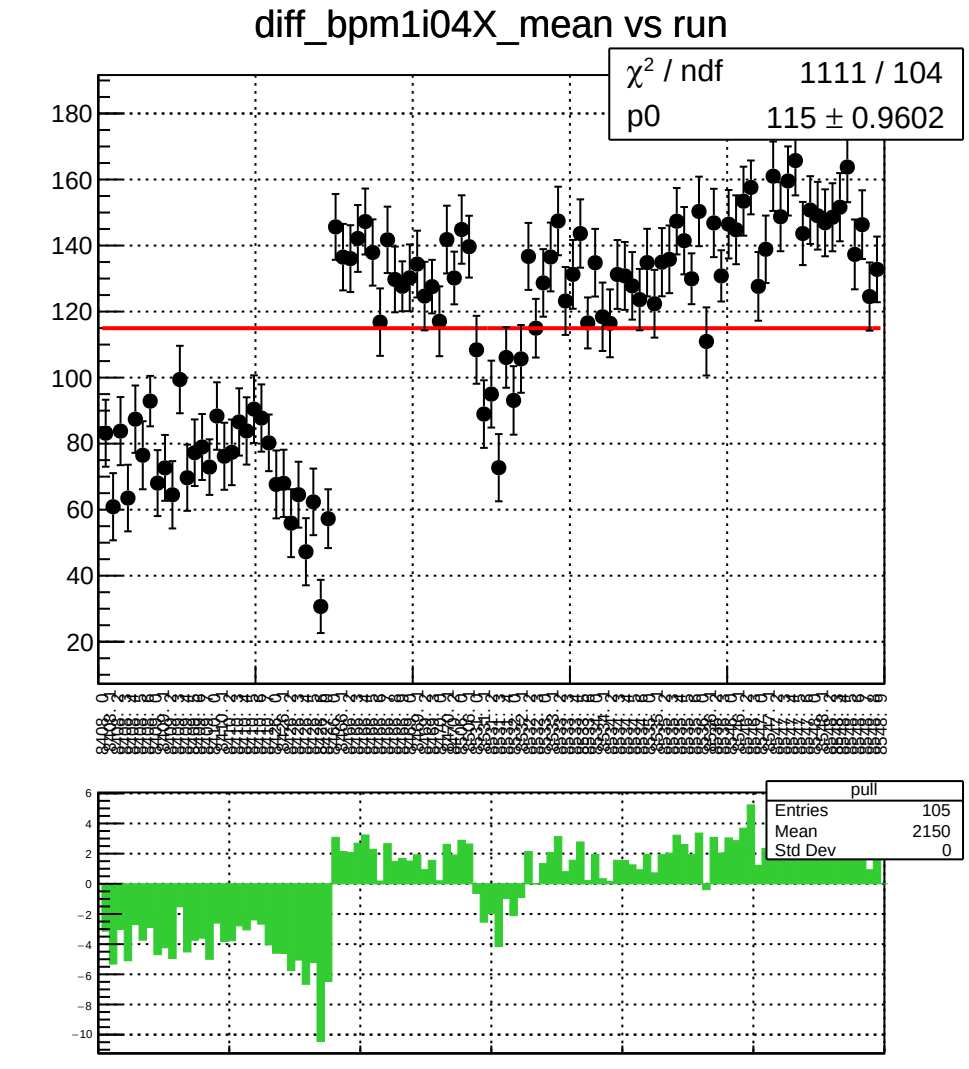

pull1D
Entries 105
Mean −0.2406
Std Dev 3.662
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

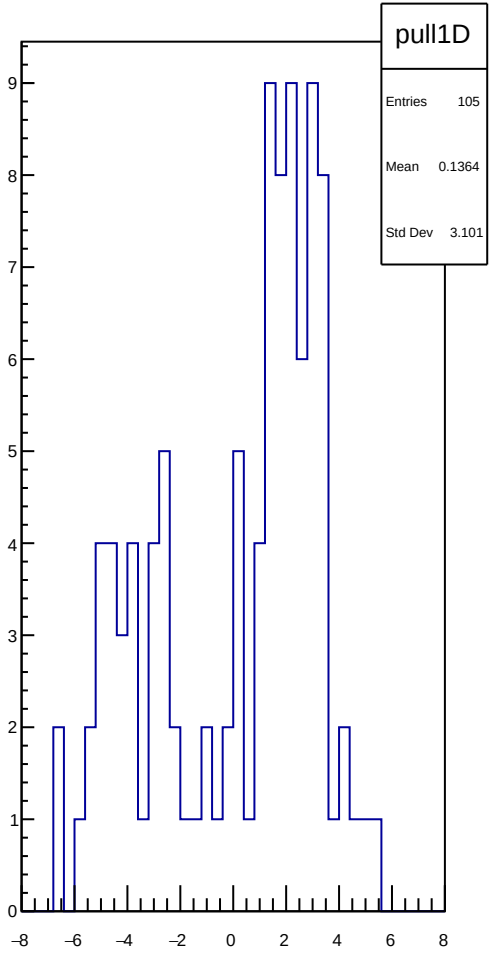

diff_bpm1i02X_rms vs run
χ² / ndf 1110 / 104
p0 656.6 ± 0.4591
710
700
690
680
670
660
650
640
630

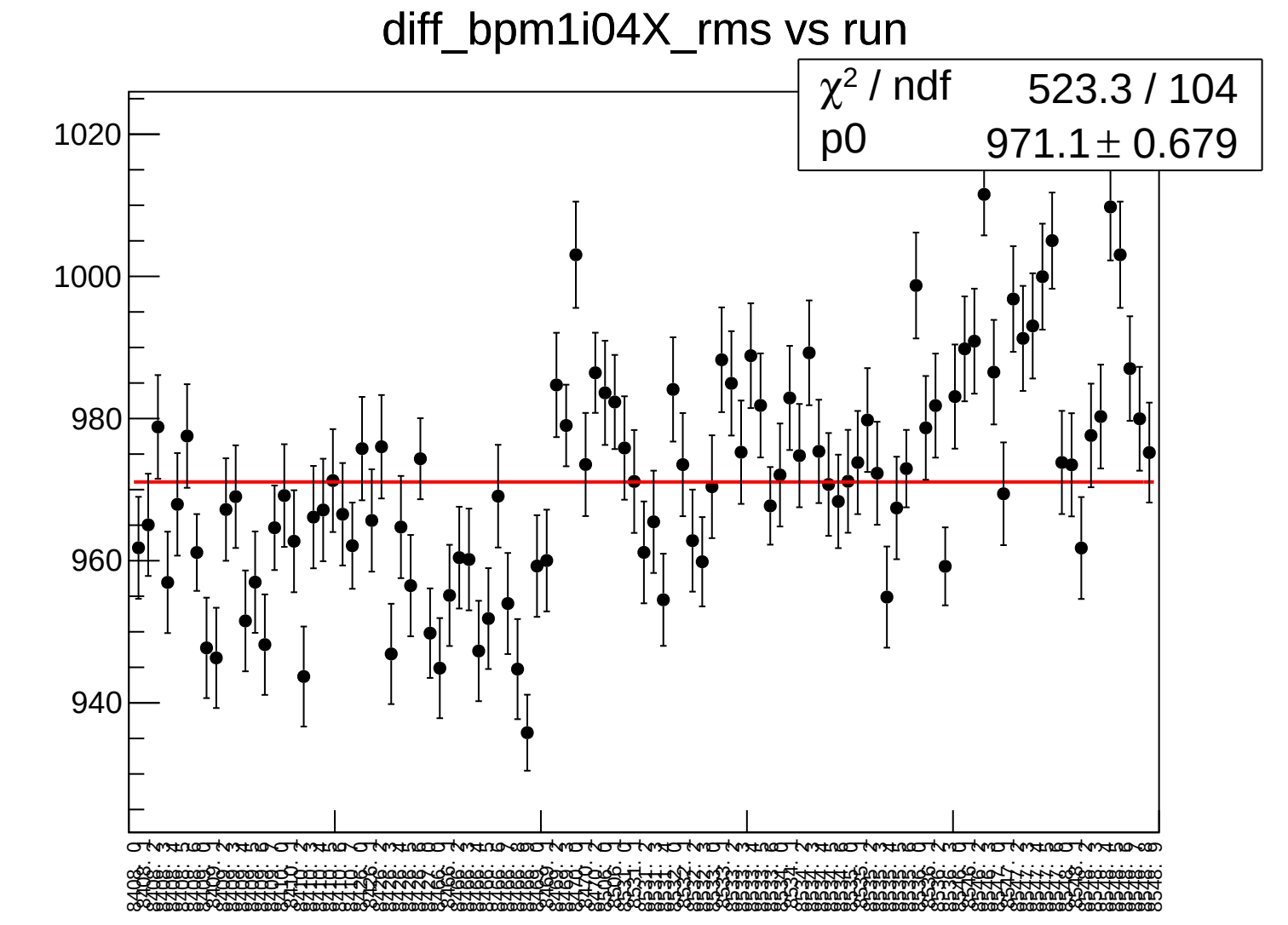

diff_bpm1i02Y_mean vs run
χ² / ndf 835 / 104
p0 65.12 ± 0.514
pull
Entries 105
Mean 3615
Std Dev 0

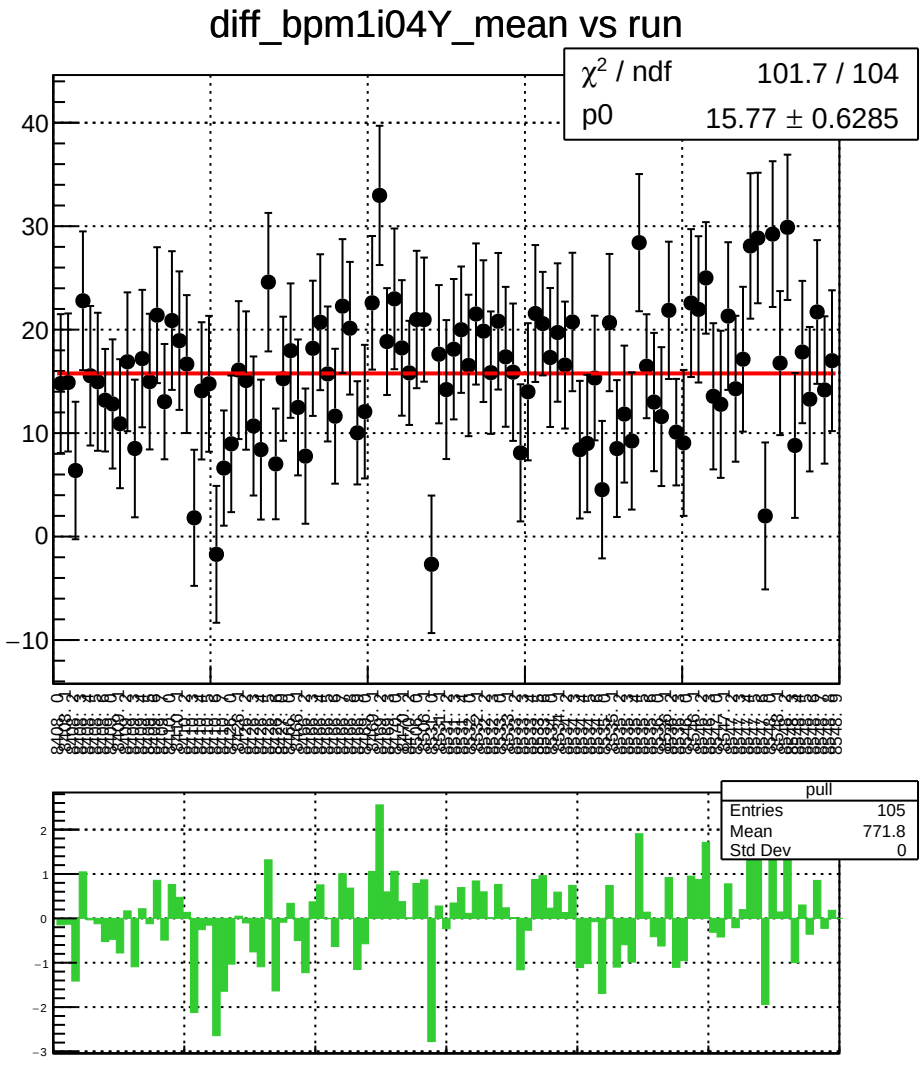

pull1D
Entries 105
Mean 0.1058
Std Dev 2.674

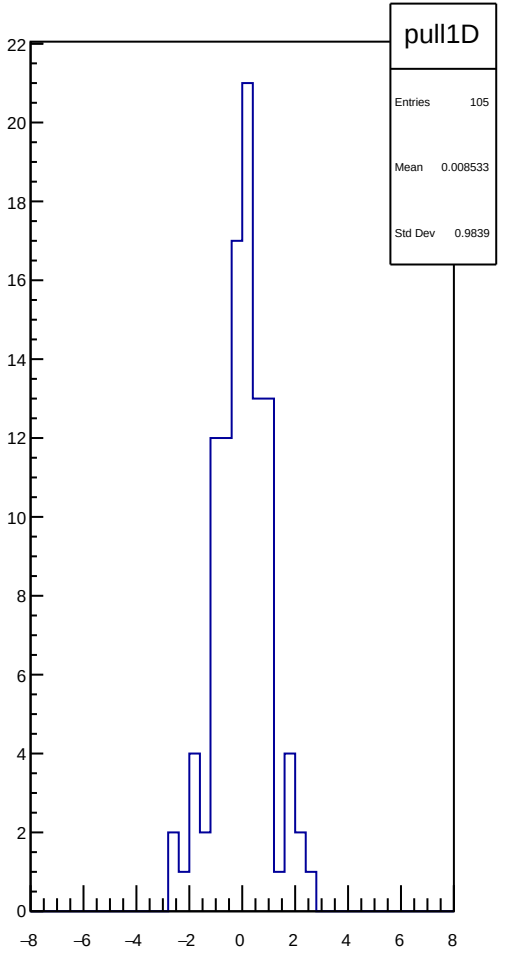

diff_bpm1i02Y_rms vs run
χ² / ndf 1664 / 104
p0 519.7 ± 0.3634
560
550
540
530
520
510
500

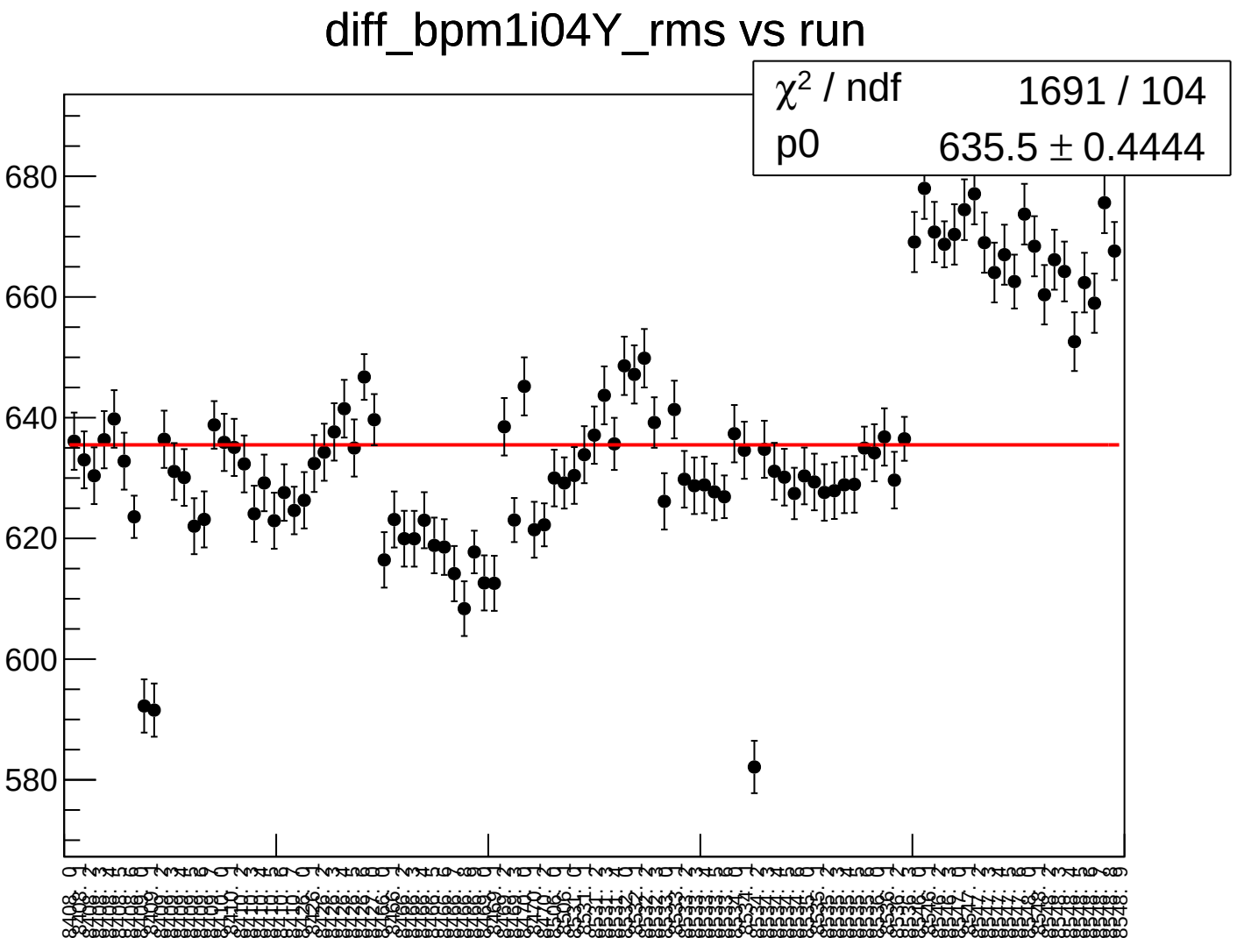

diff_bpm1i04X_mean vs run
χ² / ndf 1111 / 104
p0 115 ± 0.9602
pull
Entries 105
Mean 2150
Std Dev 0

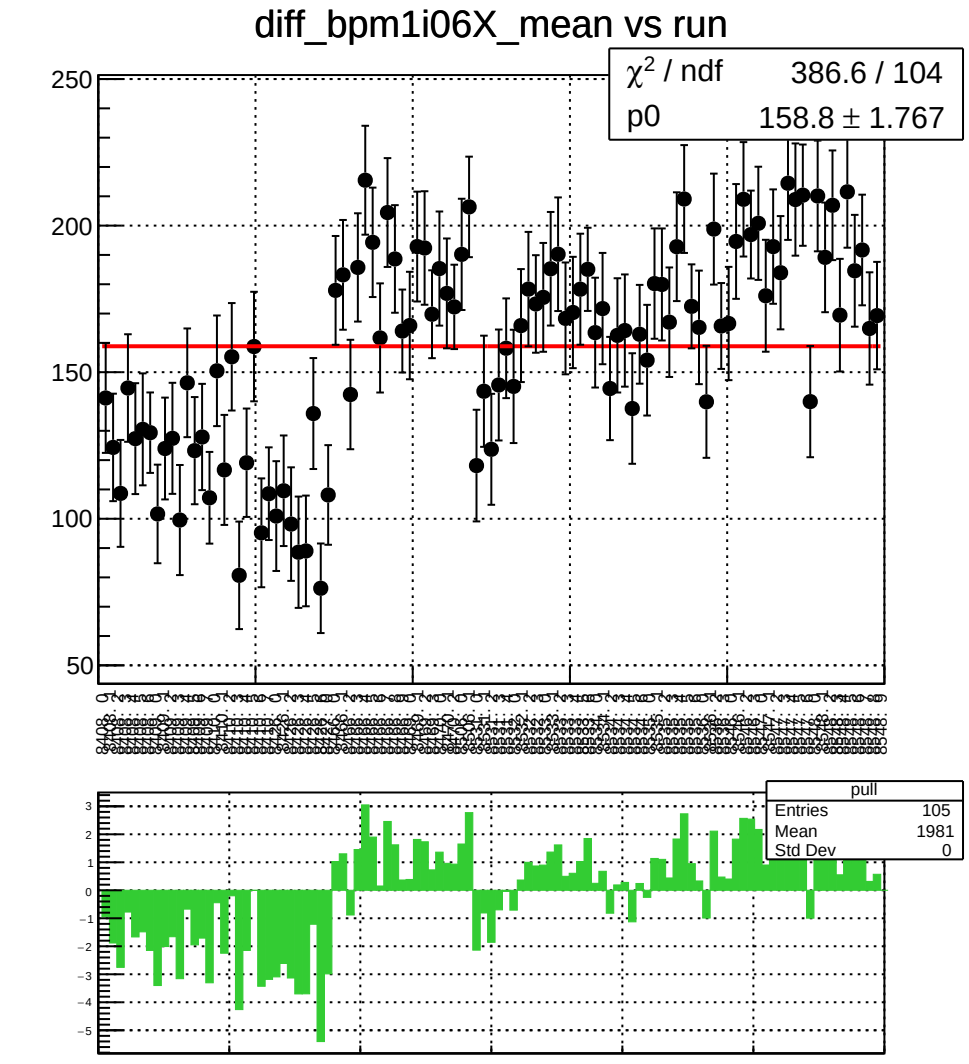

pull1D
Entries 105
Mean 0.1364
Std Dev 3.101

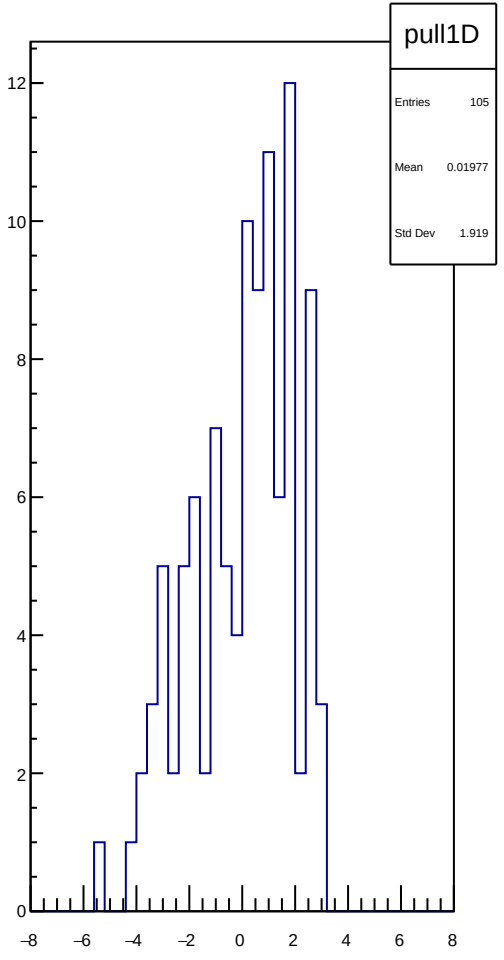

diff_bpm1i04X_rms vs run
χ² / ndf 523.3 / 104
p0 971.1 ± 0.679
1020
1000
980
960
940

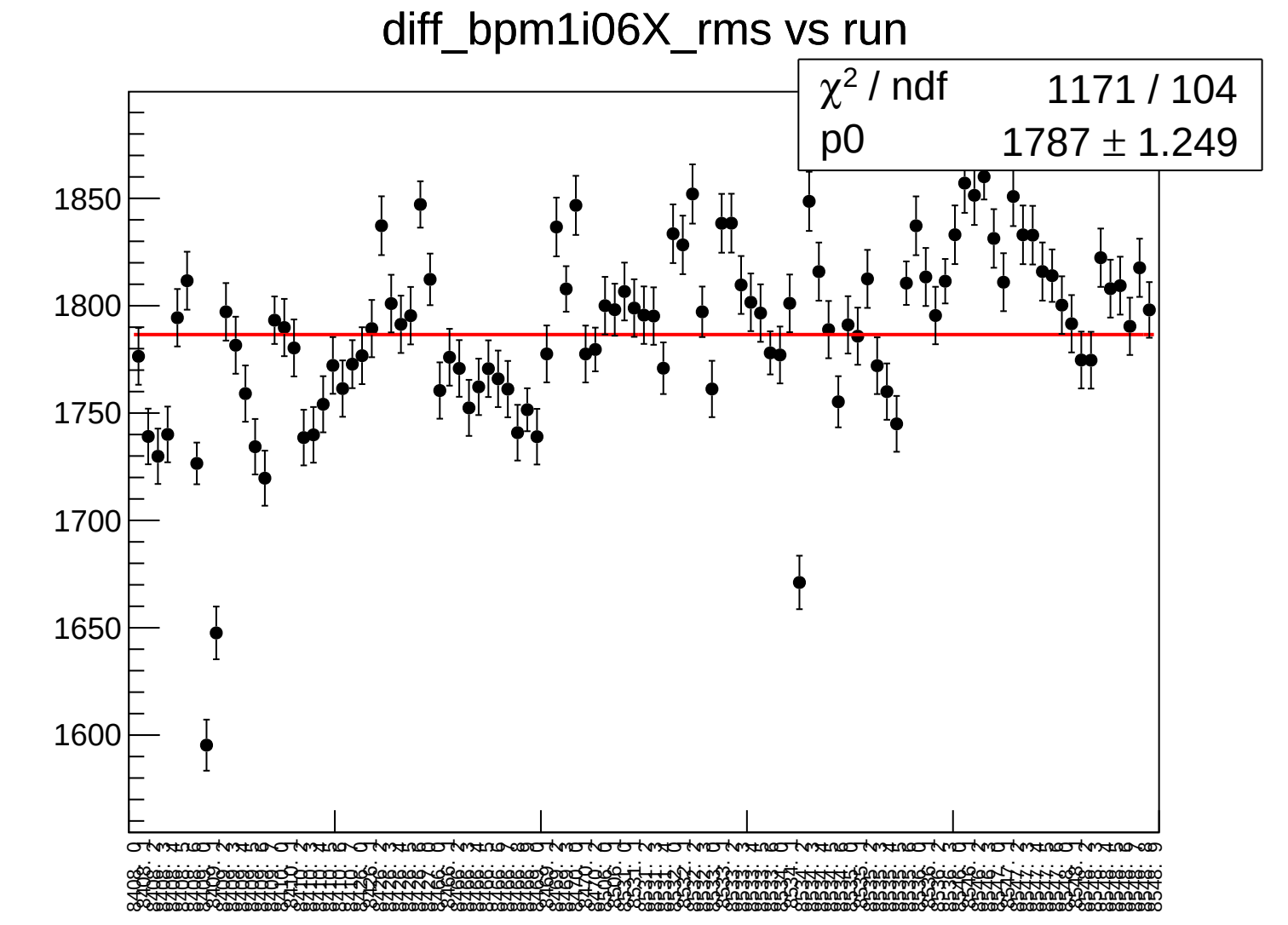

diff_bpm1i04Y_mean vs run
χ² / ndf 101.7 / 104
p0 15.77 ± 0.6285
pull
Entries 105
Mean 771.8
Std Dev 0

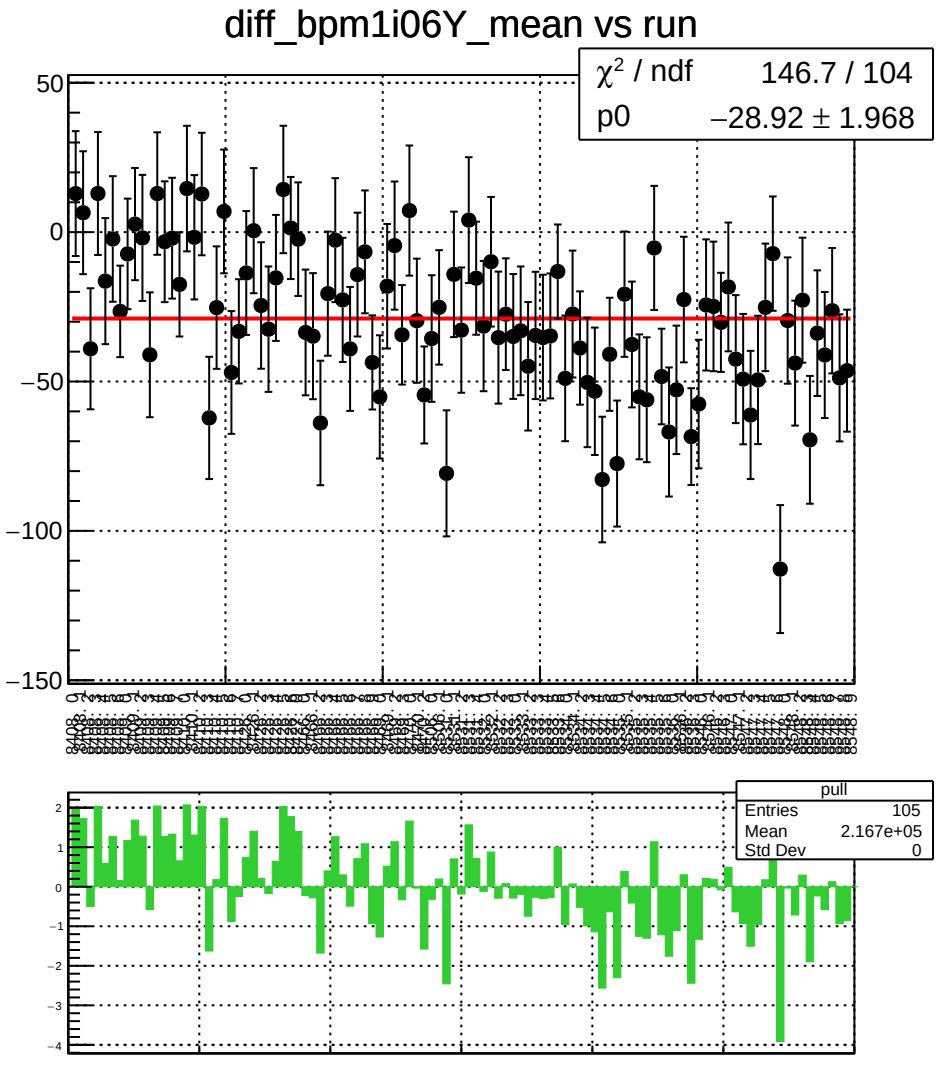

pull1D
Entries 105
Mean 0.008533
Std Dev 0.9839

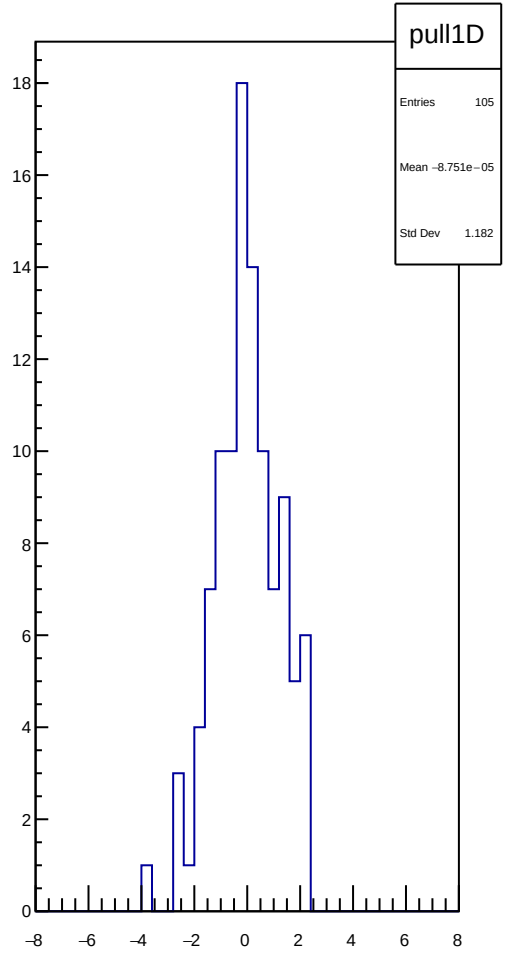

diff_bpm1i04Y_rms vs run
χ² / ndf 1691 / 104
p0 635.5 ± 0.4444
680
660
640
620
600
580

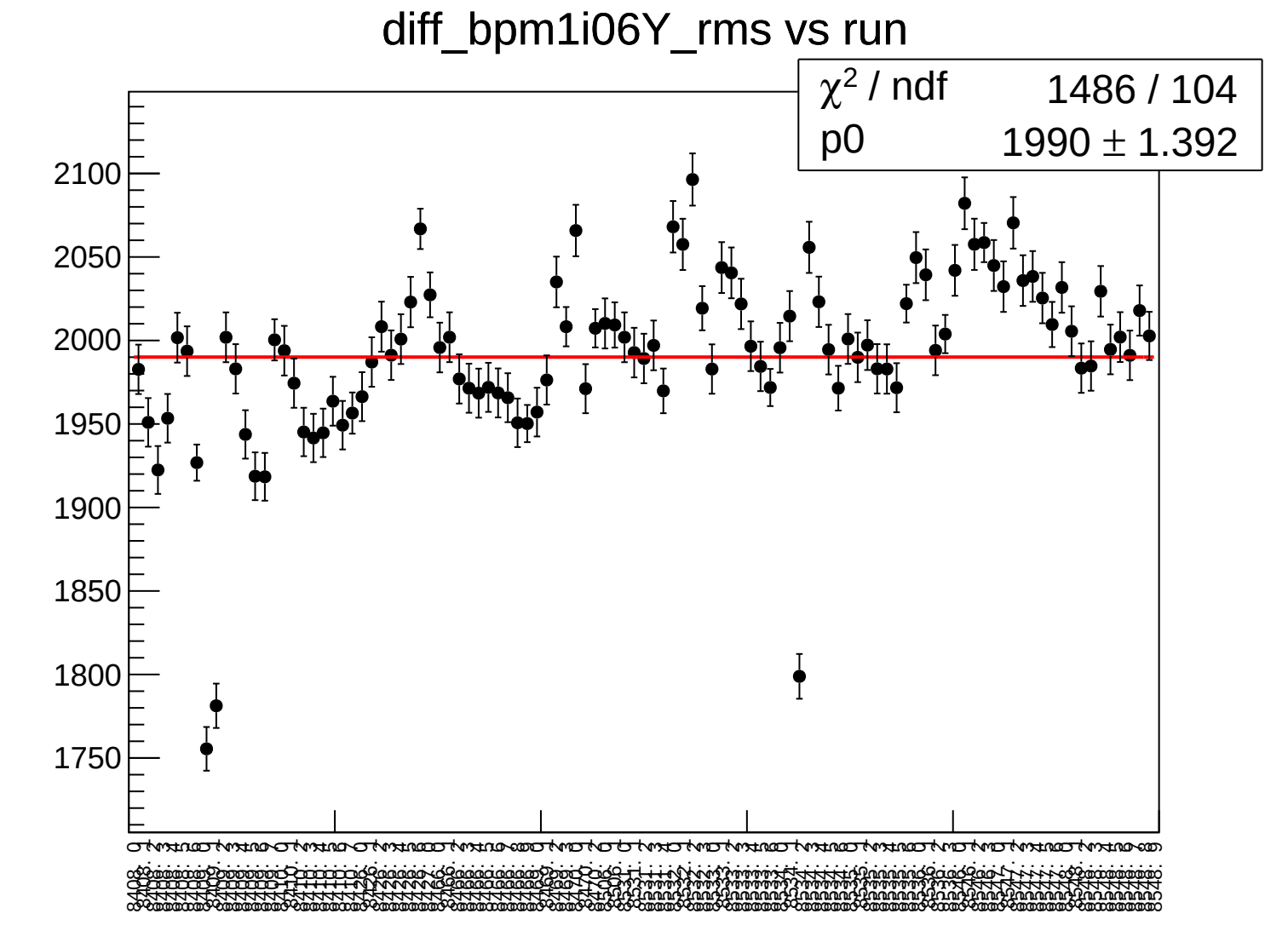

diff_bpm1i06X_mean vs run
χ² / ndf 386.6 / 104
p0 158.8 ± 1.767
250
200
150
100
50
pull
Entries 105
Mean 1981
Std Dev 0
3
2
1
0
−1
−2
−3
−4
−5

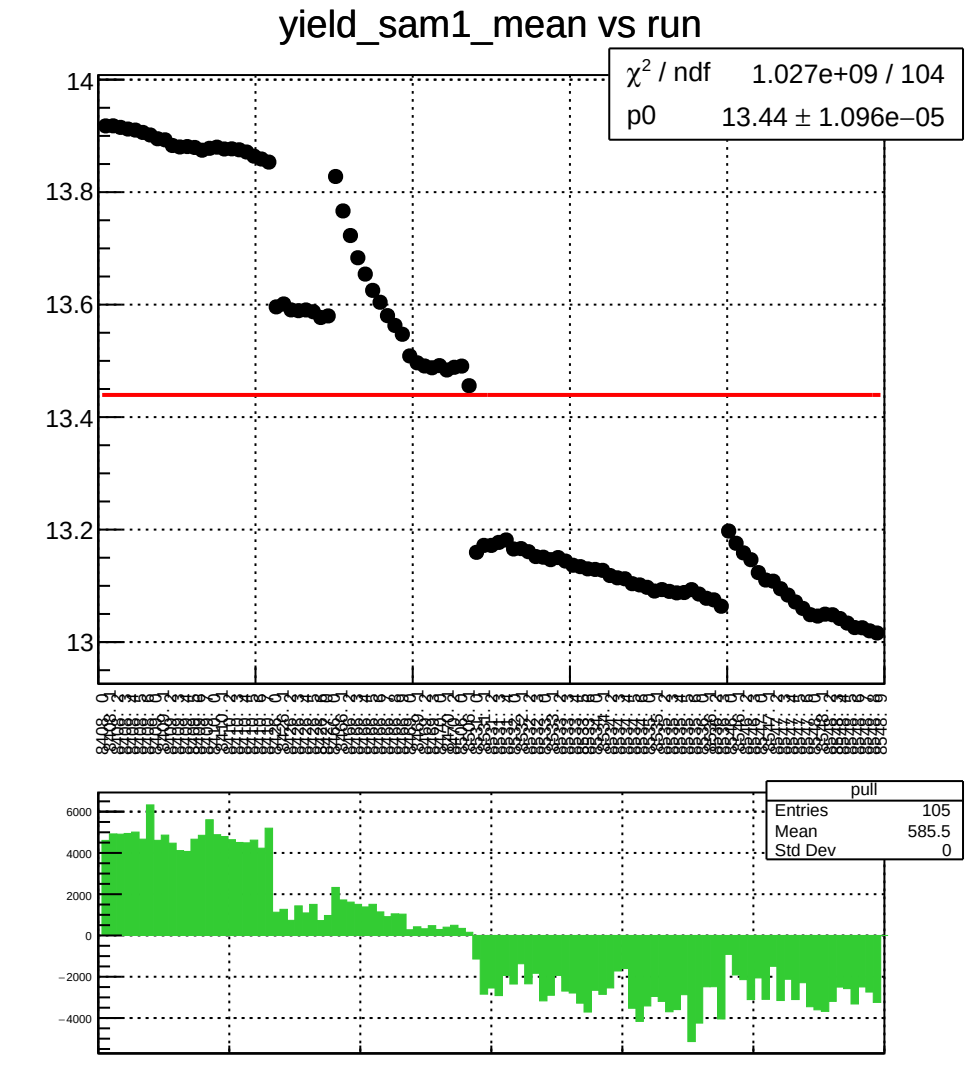

pull1D
Entries 105
Mean 0.01977
Std Dev 1.919
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

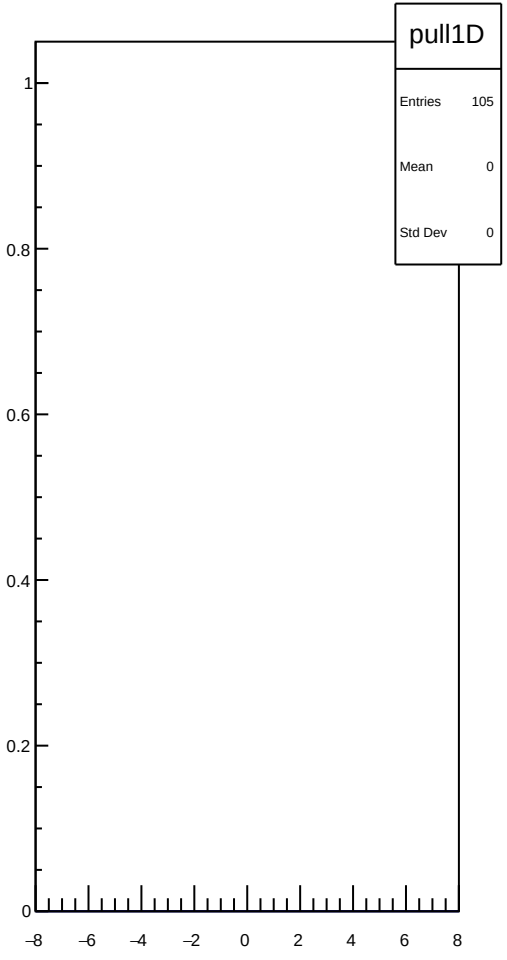

diff_bpm1i06X_rms vs run
χ^2 / ndf 1171 / 104
p0 1787 ± 1.249
1850
1800
1750
1700
1650
1600

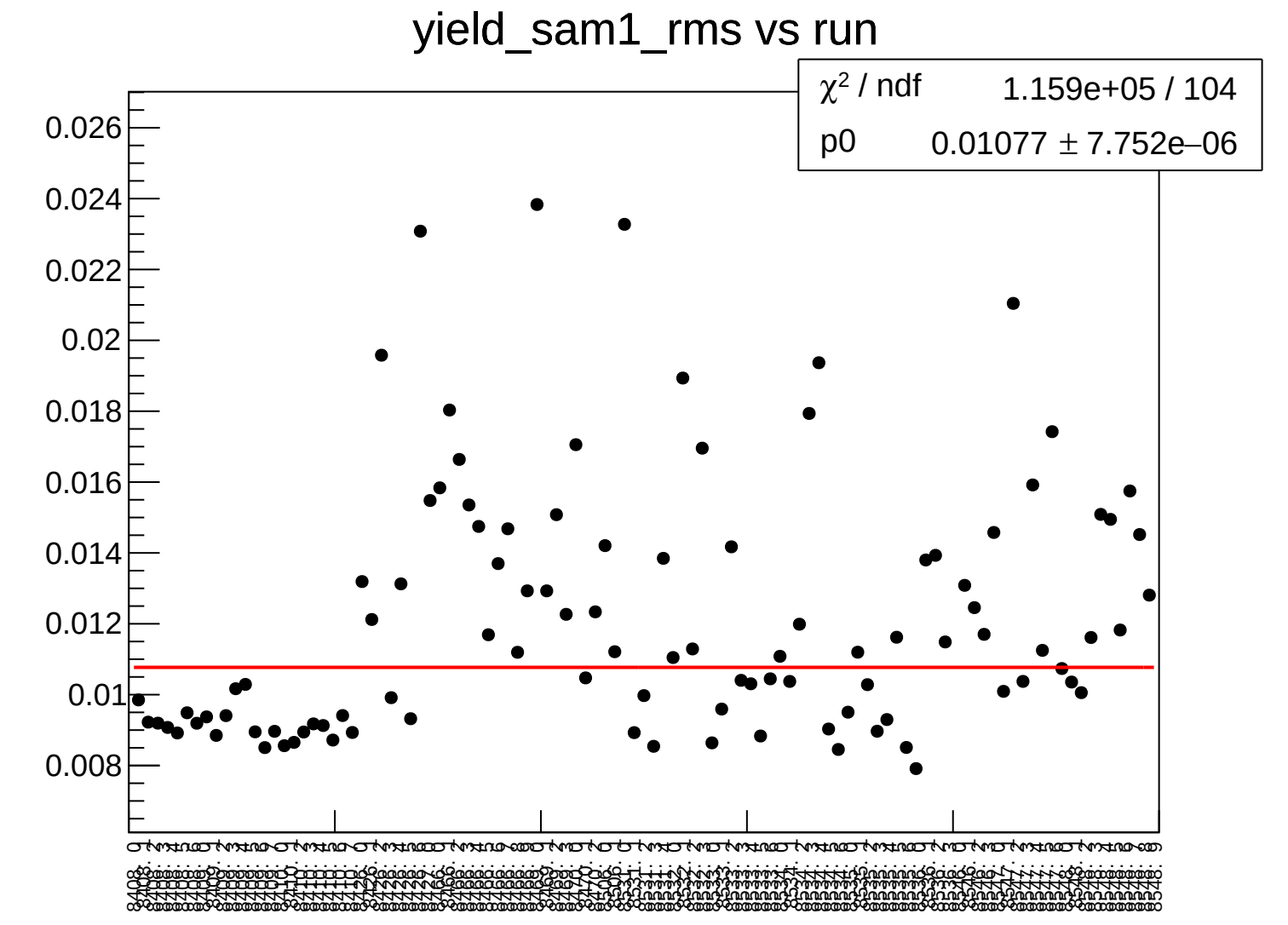

diff_bpm1i06Y_mean vs run
χ² / ndf 146.7 / 104
p0 −28.92 ± 1.968
50
0
−50
−100
−150
pull
Entries 105
Mean 2.167e+05
Std Dev 0
2
1
0
−1
−2
−3
−4

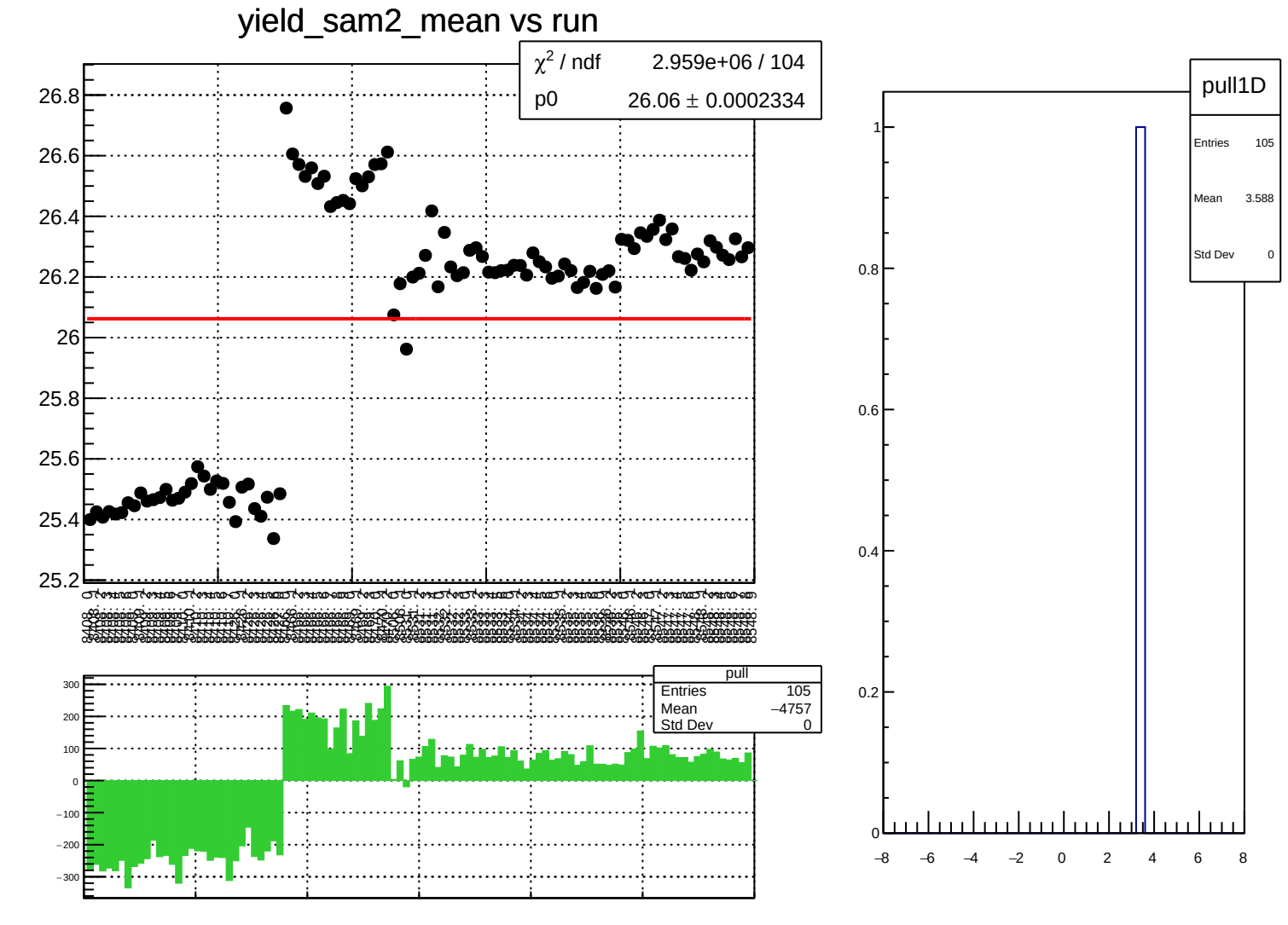

pull1D
Entries 105
Mean −8.751e−05
Std Dev 1.182
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

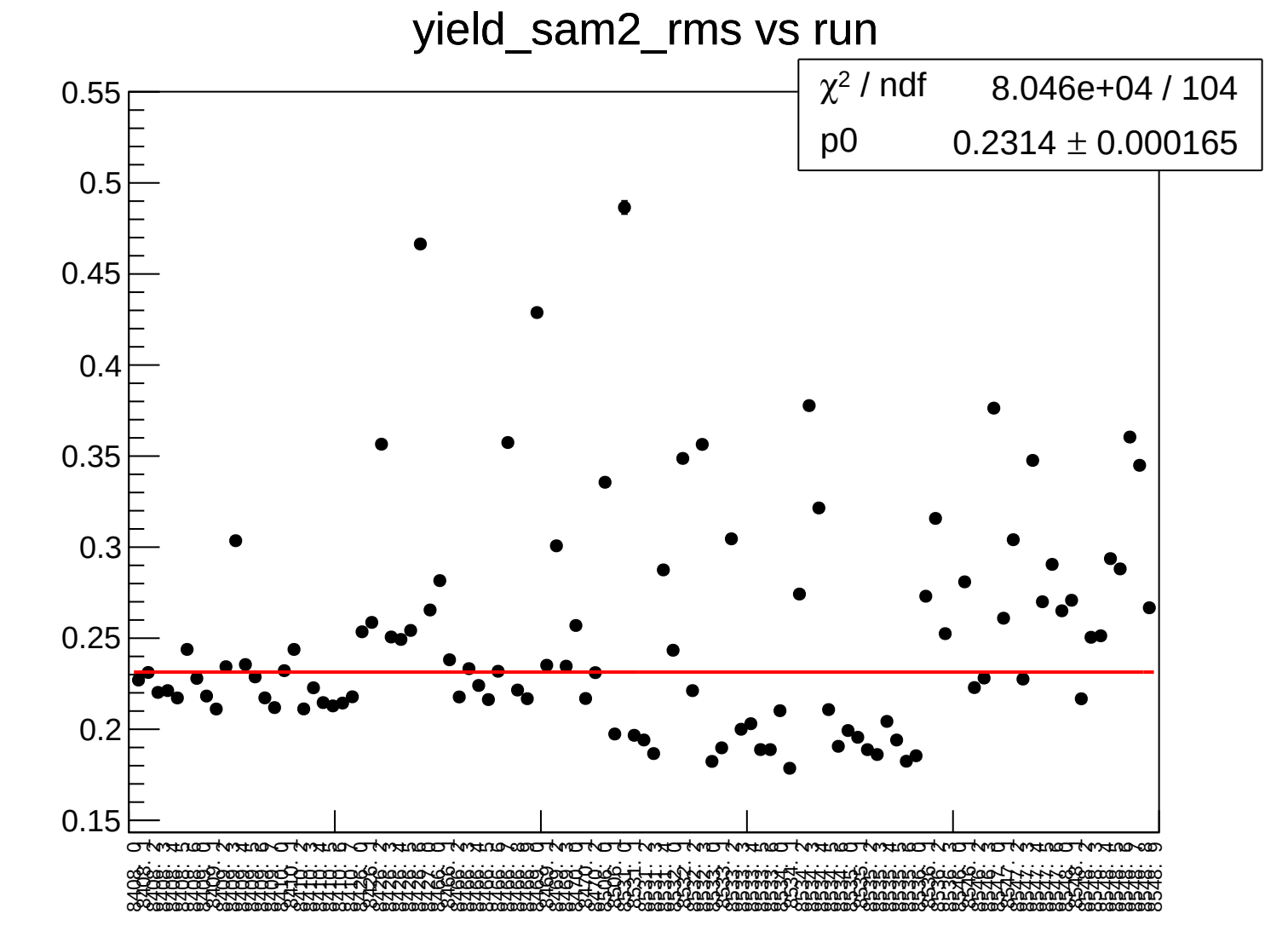

diff_bpm1i06Y_rms vs run
χ² / ndf 1486 / 104
p0 1990 ± 1.392
2100
2050
2000
1950
1900
1850
1800
1750

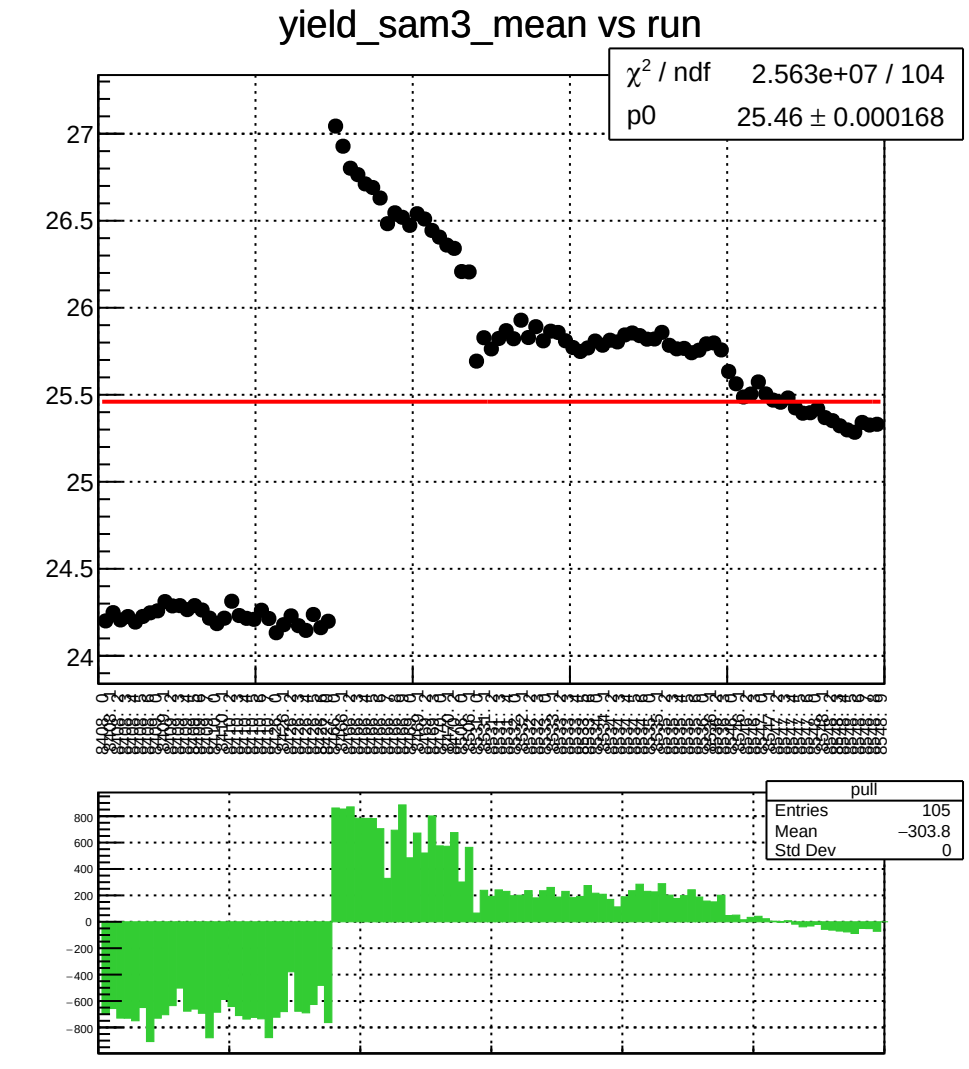

yield_sam1_mean vs run
χ² / ndf 1.027e+09 / 104
p0 13.44 ± 1.096e−05
14
13.8
13.6
13.4
13.2
13
pull
Entries 105
Mean 585.5
Std Dev 0
6000
4000
2000
0
−2000
−4000

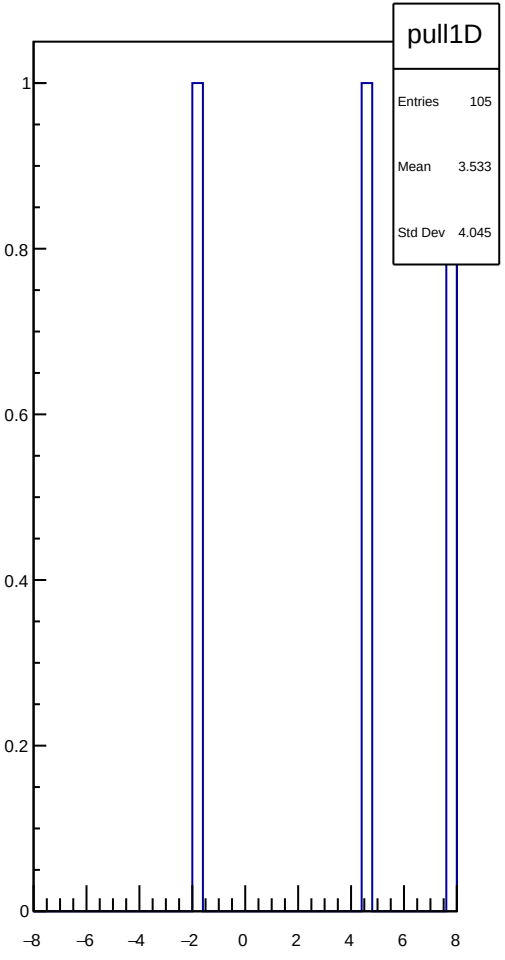

pull1D
Entries 105
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

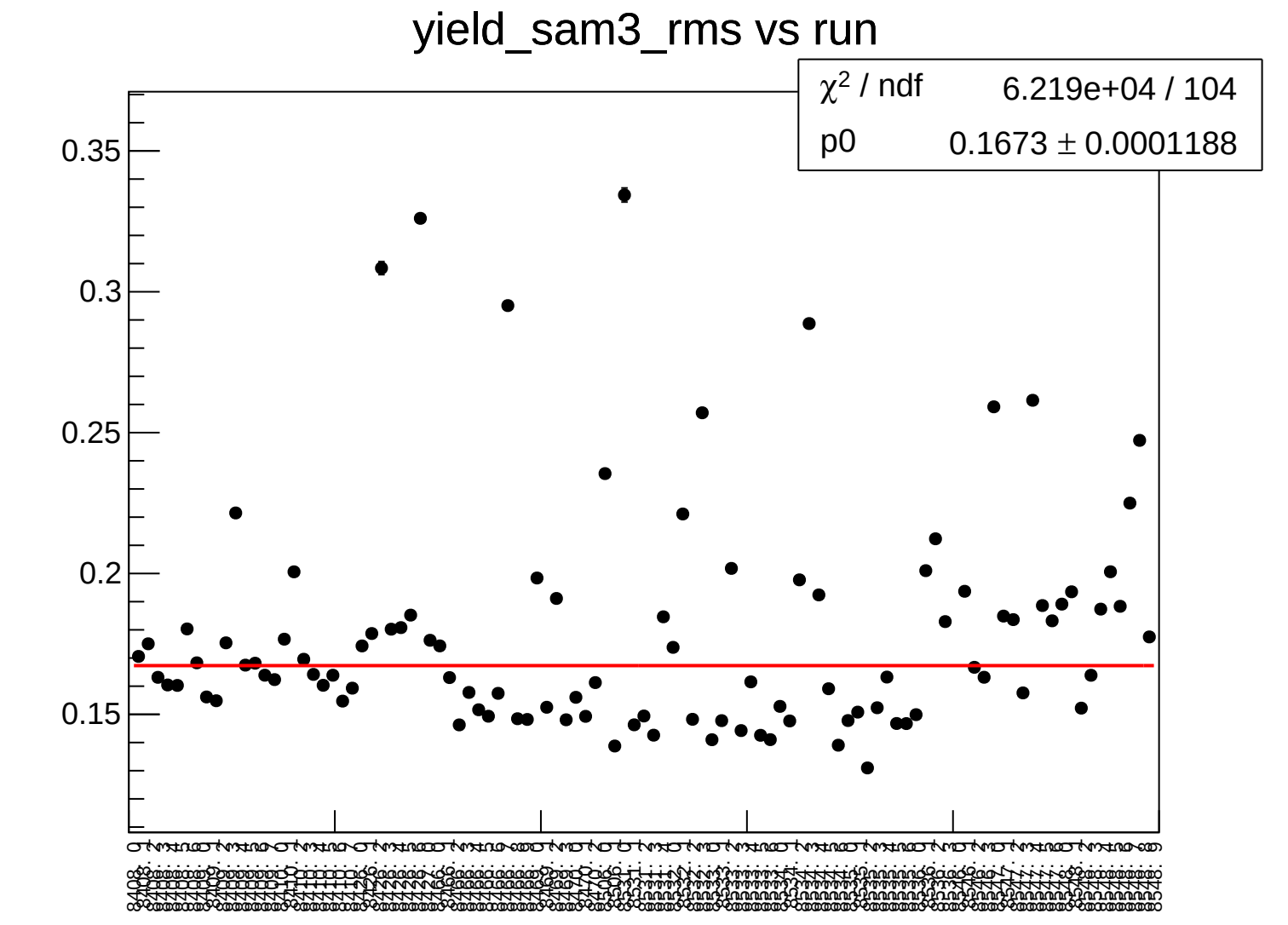

yield_sam1_rms vs run
χ² / ndf 1.159e+05 / 104
p0 0.01077 ± 7.752e–06
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008

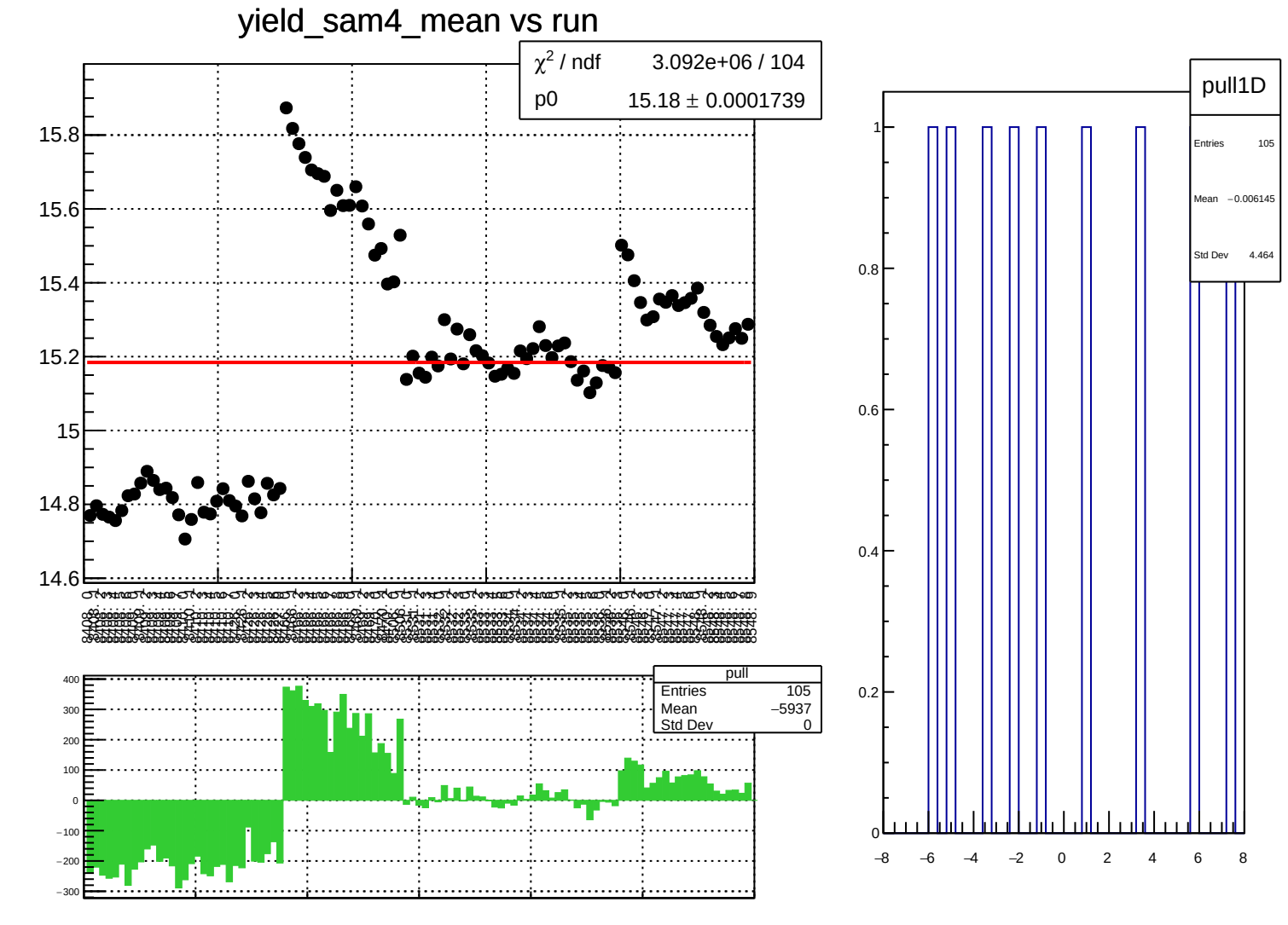

yield_sam2_mean vs run
χ² / ndf 2.959e+06 / 104
p0 26.06 ± 0.0002334
26.8
26.6
26.4
26.2
26
25.8
25.6
25.4
25.2
pull
Entries 105
Mean −4757
Std Dev 0
300
200
100
0
−100
−200
−300
pull1D
Entries 105
Mean 3.588
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

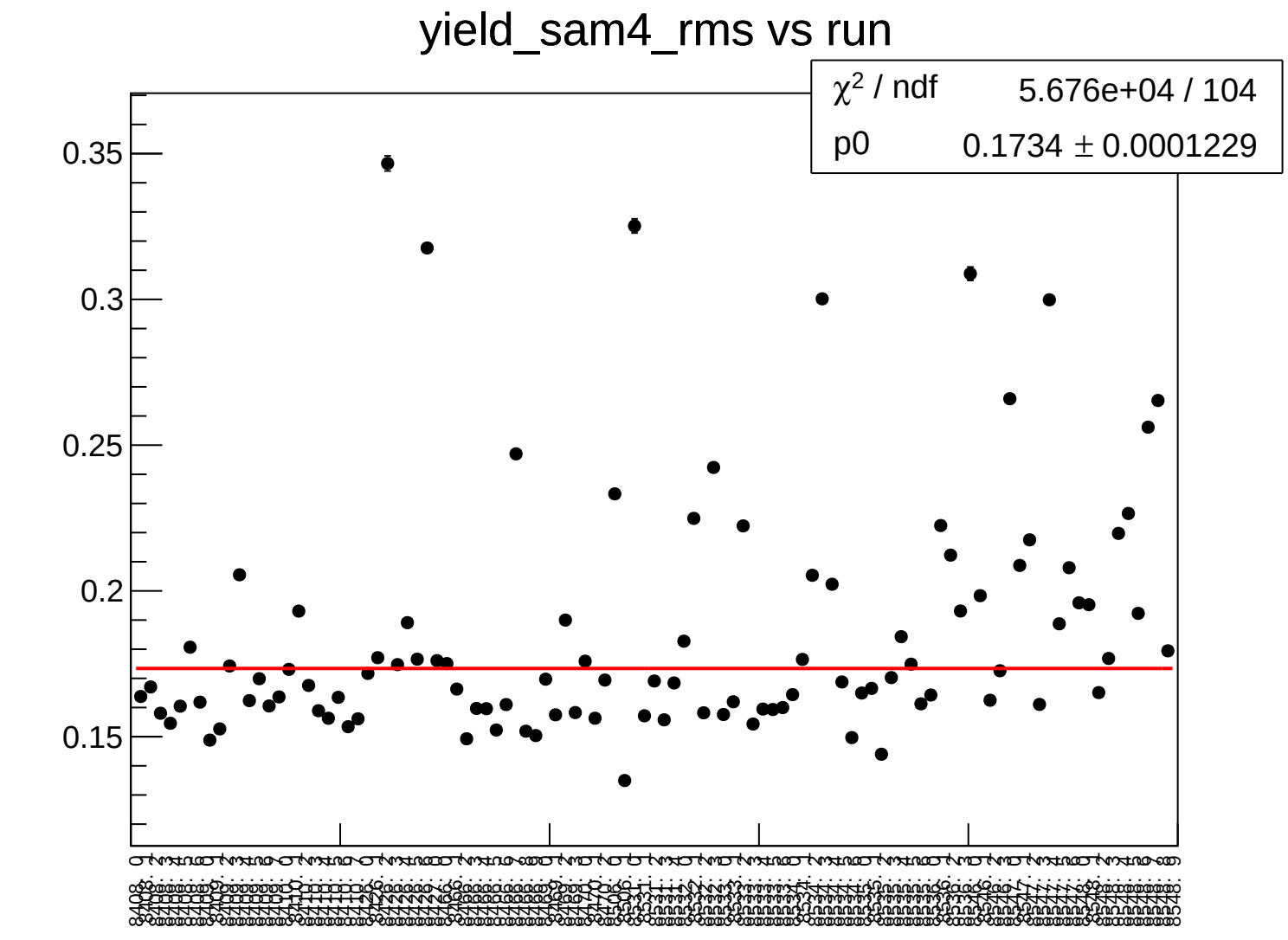

yield_sam2_rms vs run
χ² / ndf 8.046e+04 / 104
p0 0.2314 ± 0.000165
0.55
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15

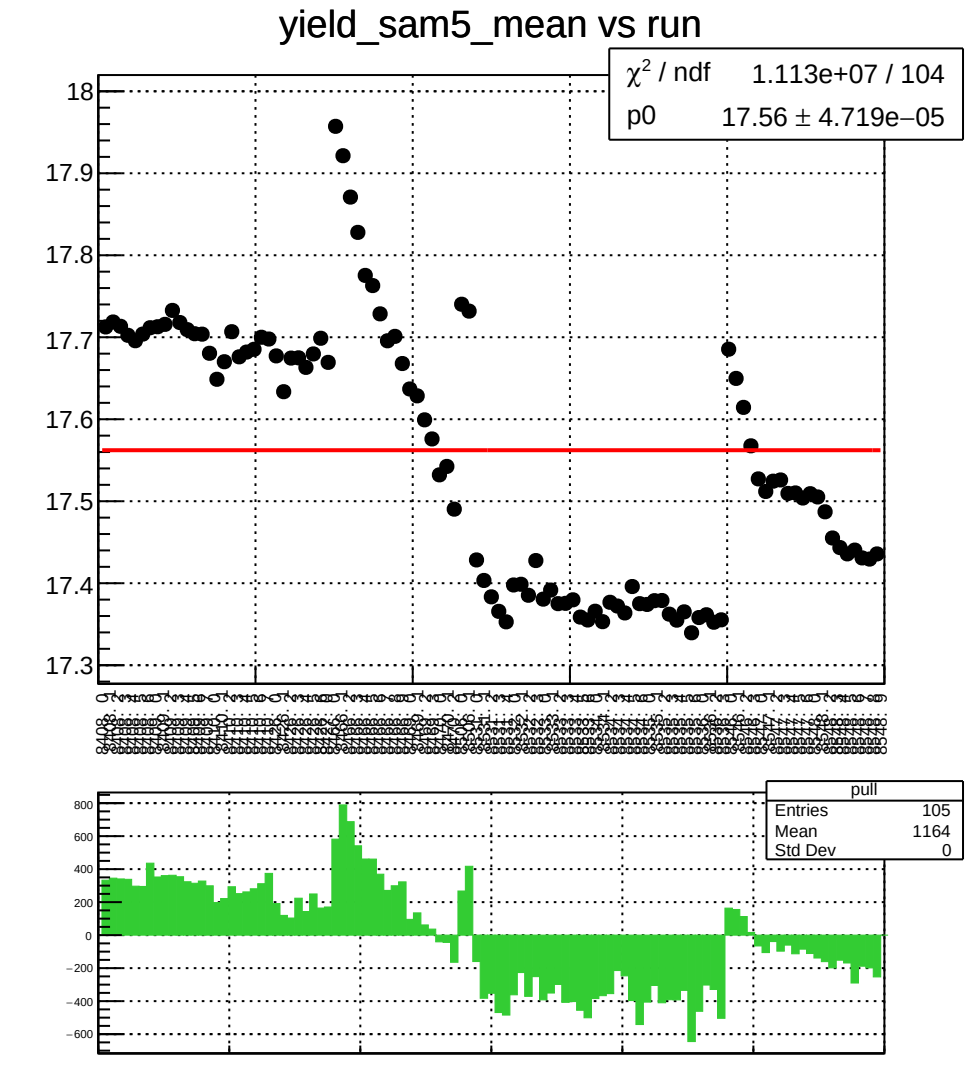

yield_sam3_mean vs run
χ² / ndf 2.563e+07 / 104
p0 25.46 ± 0.000168
27
26.5
26
25.5
25
24.5
24
pull
Entries 105
Mean −303.8
Std Dev 0
800
600
400
200
0
−200
−400
−600
−800

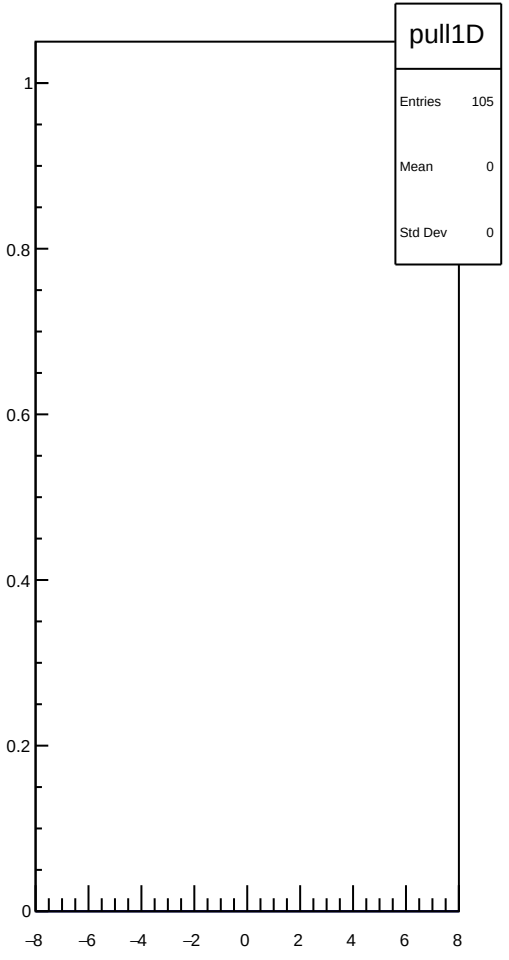

pull1D
Entries 105
Mean 3.533
Std Dev 4.045
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

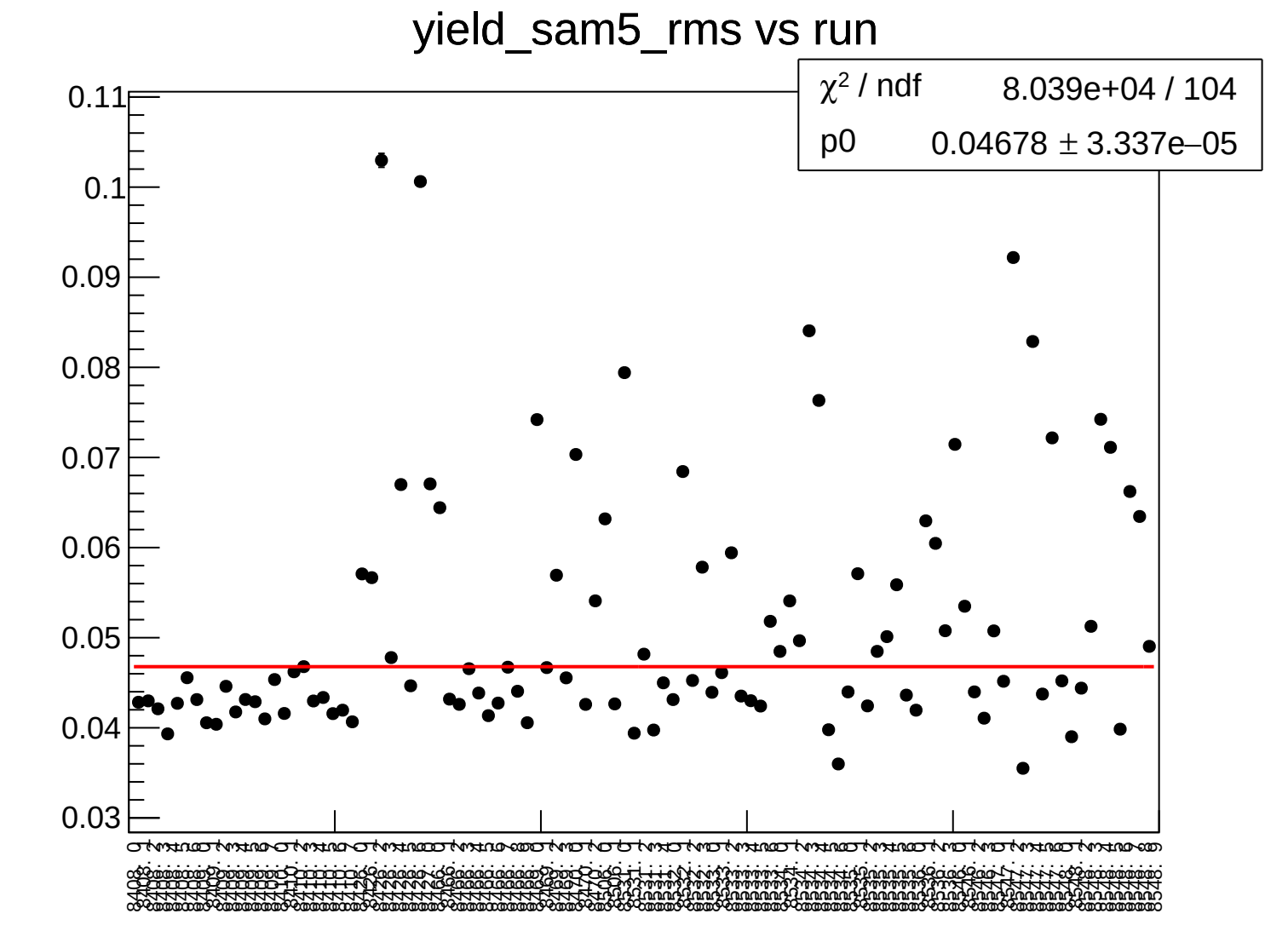

yield_sam3_rms vs run
χ² / ndf 6.219e+04 / 104
p0 0.1673 ± 0.0001188
0.35
0.3
0.25
0.2
0.15

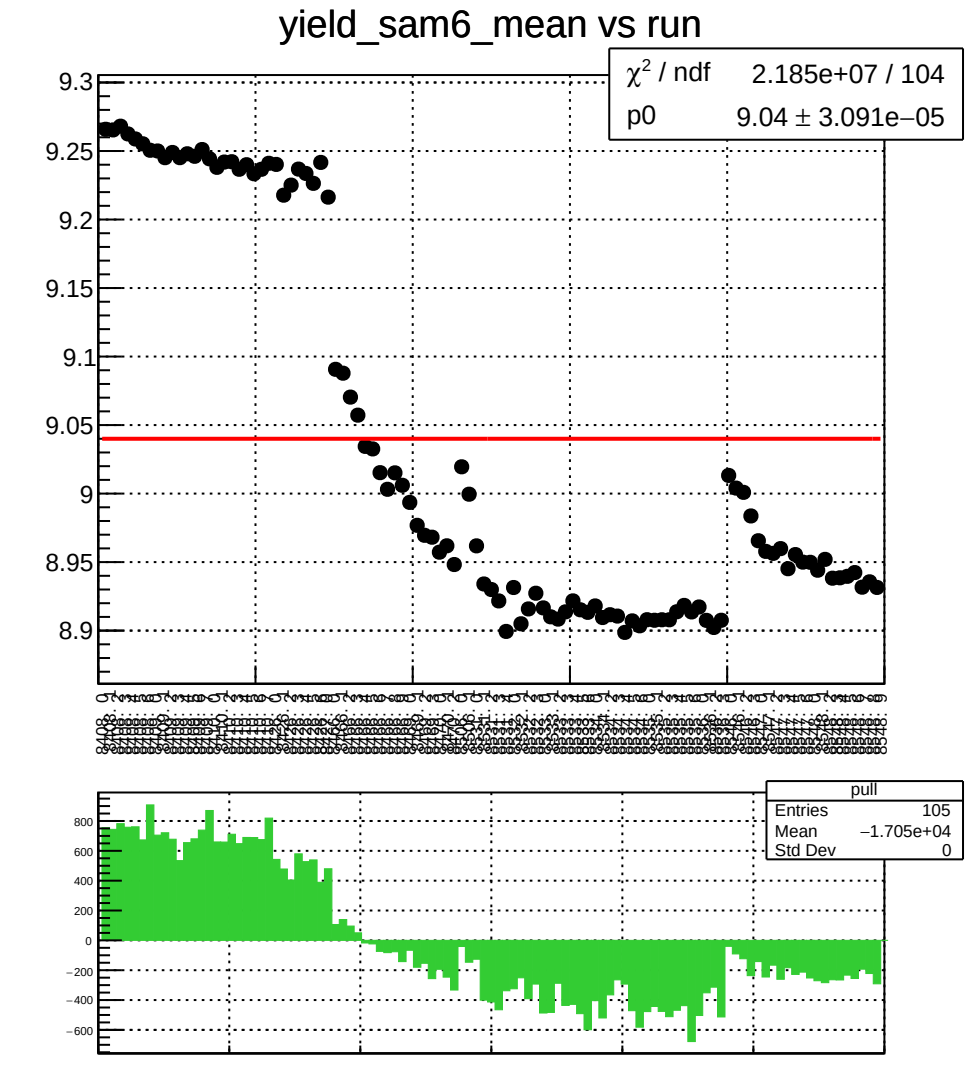

yield_sam4_mean vs run
χ² / ndf 3.092e+06 / 104
p0 15.18 ± 0.0001739
15.8
15.6
15.4
15.2
15
14.8
14.6
pull
Entries 105
Mean −5937
Std Dev 0
400
300
200
100
0
−100
−200
−300
pull1D
Entries 105
Mean −0.006145
Std Dev 4.464
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

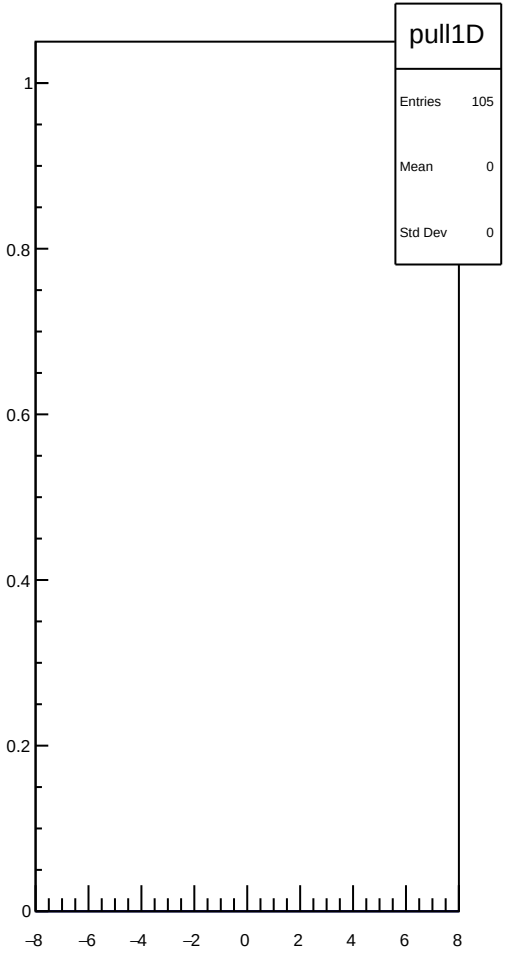

yield_sam4_rms vs run
χ² / ndf 5.676e+04 / 104
p0 0.1734 ± 0.0001229
0.35
0.3
0.25
0.2
0.15

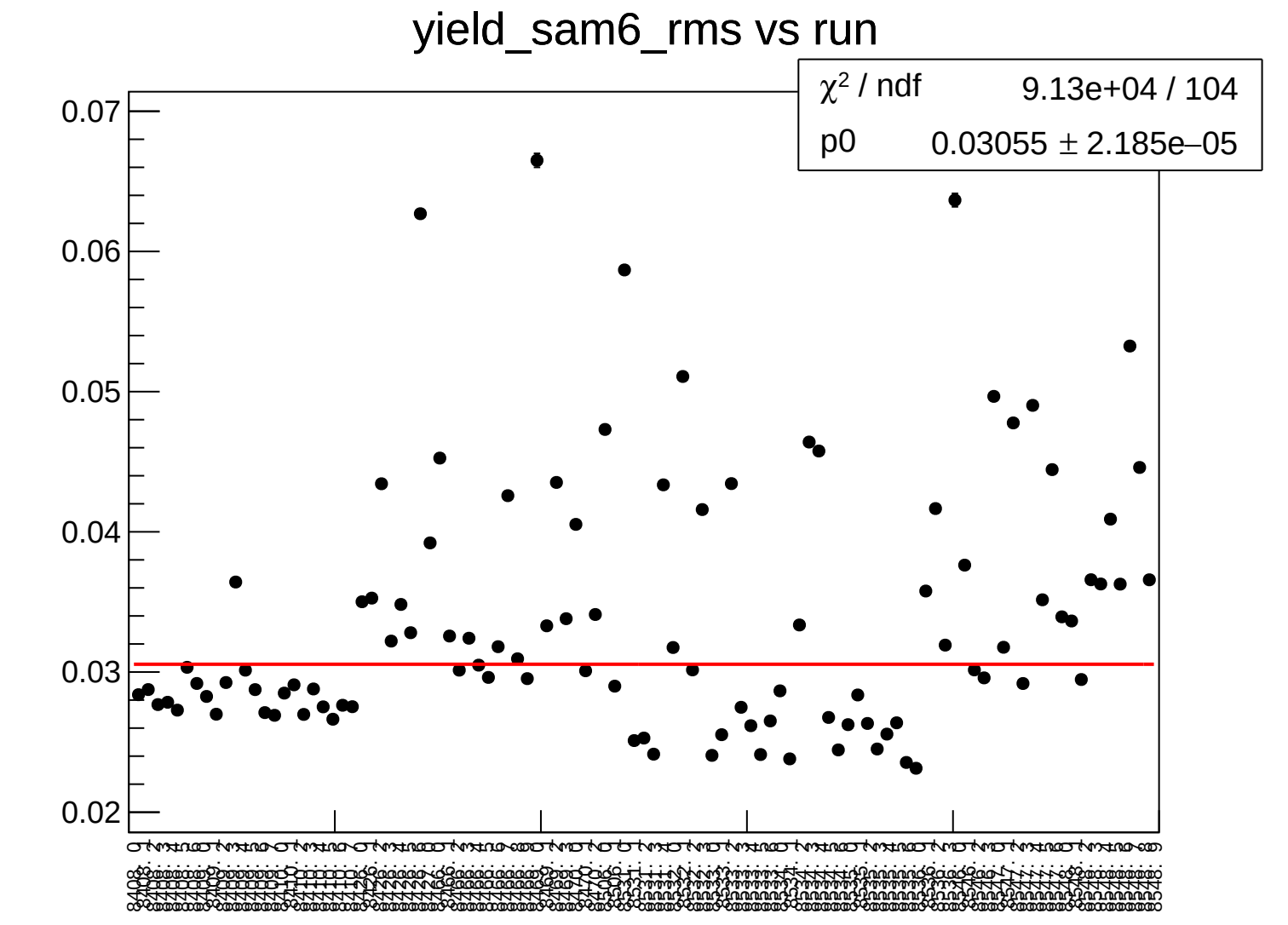

yield_sam5_mean vs run
χ² / ndf 1.113e+07 / 104
p0 17.56 ± 4.719e−05
18
17.9
17.8
17.7
17.6
17.5
17.4
17.3
pull
Entries 105
Mean 1164
Std Dev 0
800
600
400
200
0
−200
−400
−600

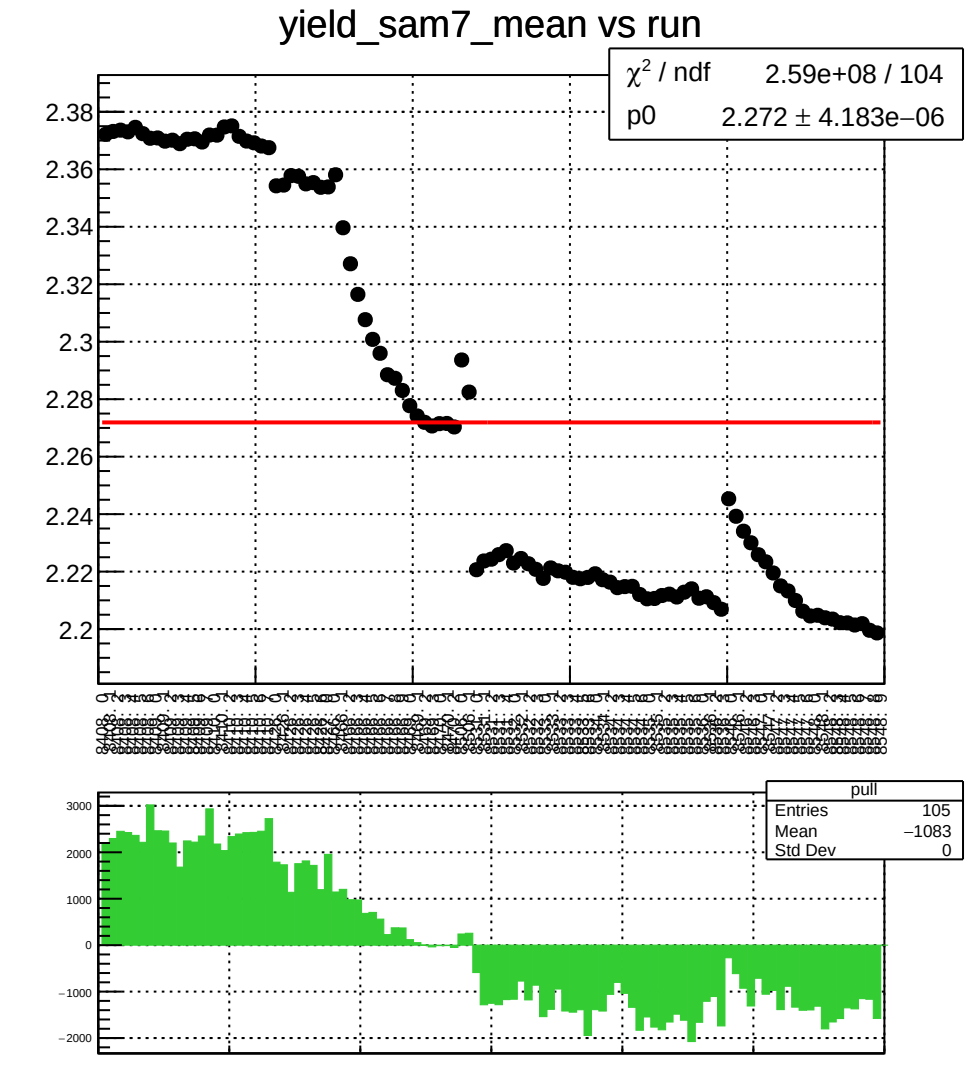

pull1D
Entries 105
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

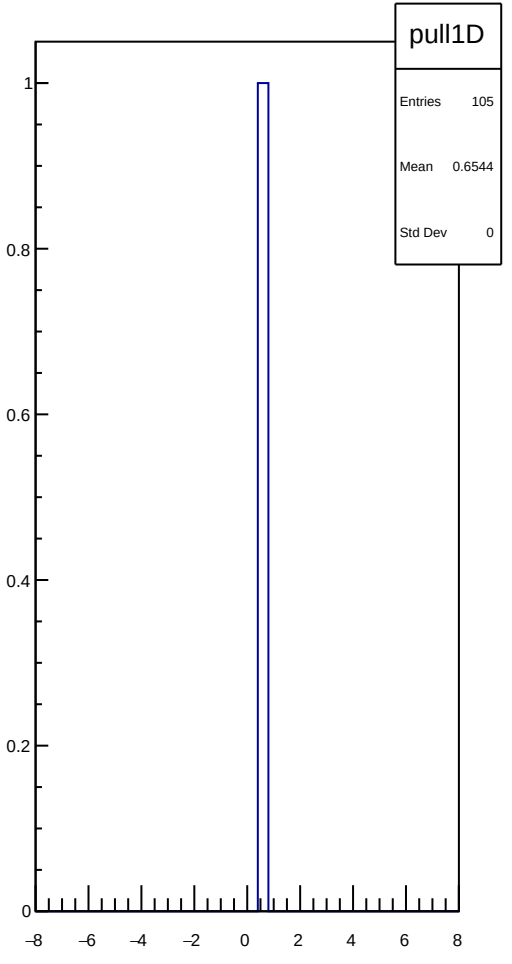

yield_sam5_rms vs run
χ² / ndf 8.039e+04 / 104
p0 0.04678 ± 3.337e−05
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03

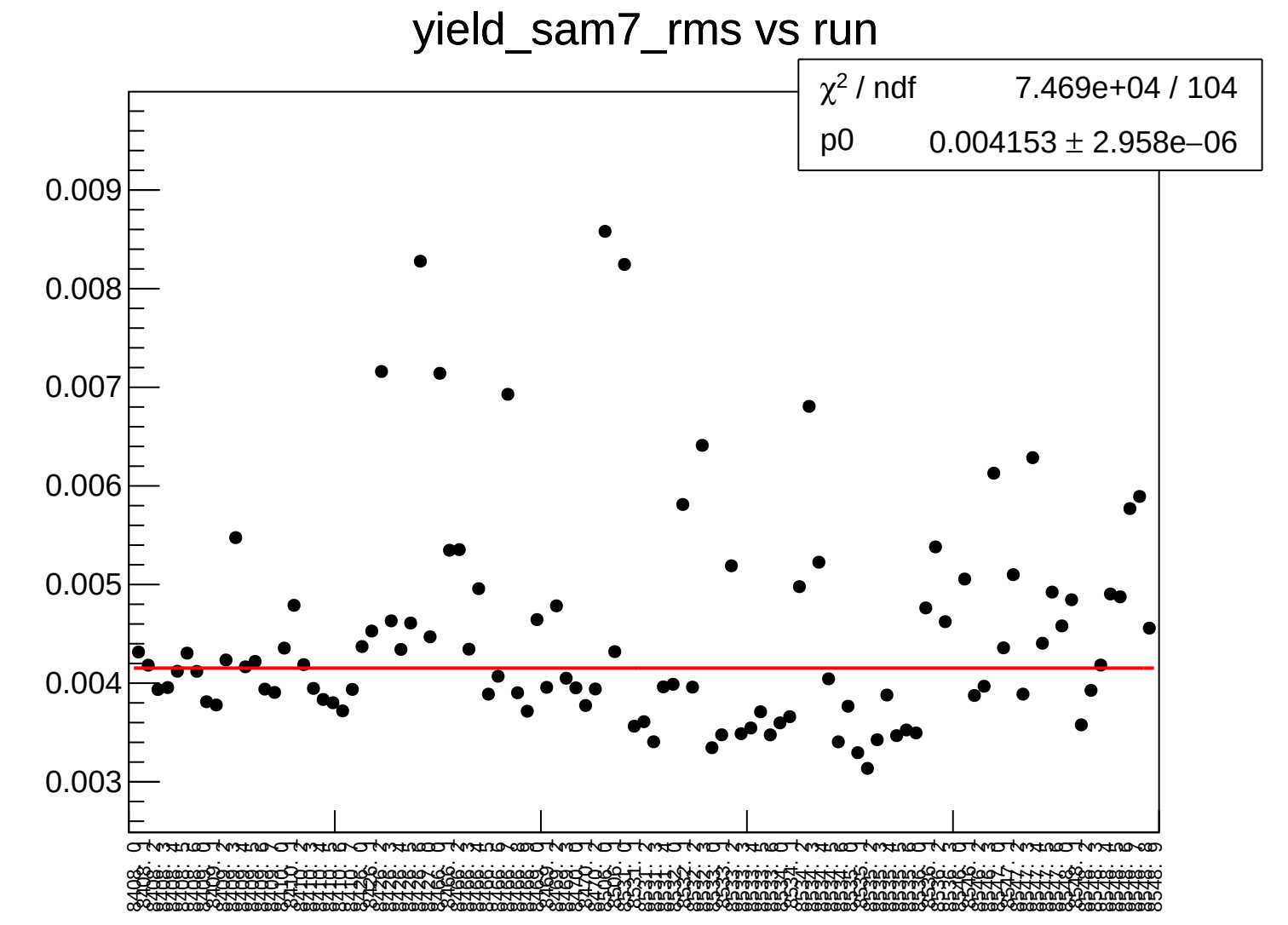

yield_sam6_mean vs run
χ² / ndf 2.185e+07 / 104
p0 9.04 ± 3.091e−05
9.3
9.25
9.2
9.15
9.1
9.05
9
8.95
8.9
pull
Entries 105
Mean −1.705e+04
Std Dev 0
800
600
400
200
0
−200
−400
−600

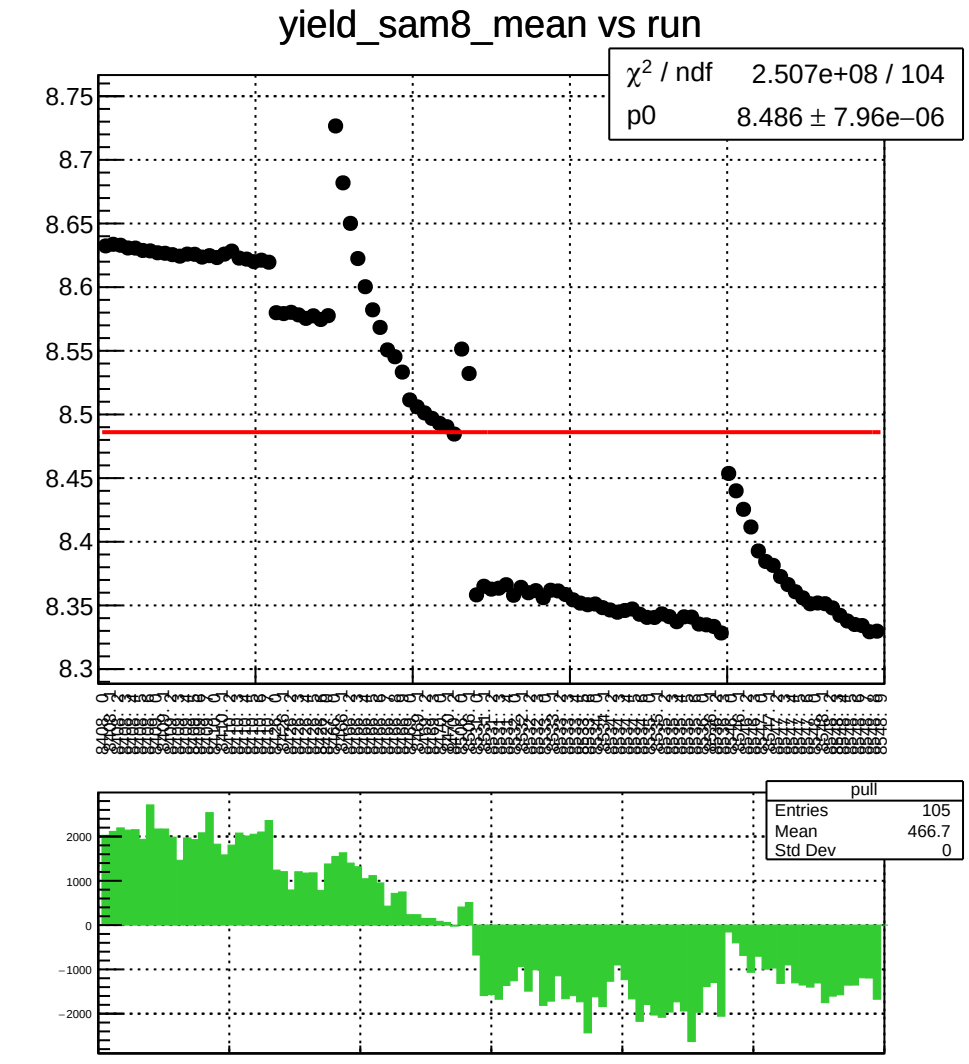

pull1D
Entries 105
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

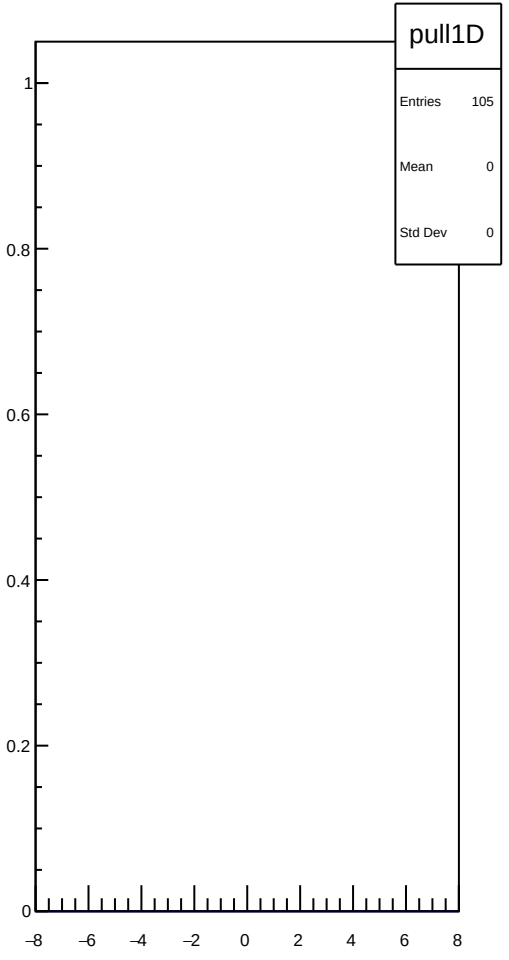

yield_sam6_rms vs run
χ² / ndf 9.13e+04 / 104
p0 0.03055 ± 2.185e−05
0.07
0.06
0.05
0.04
0.03
0.02

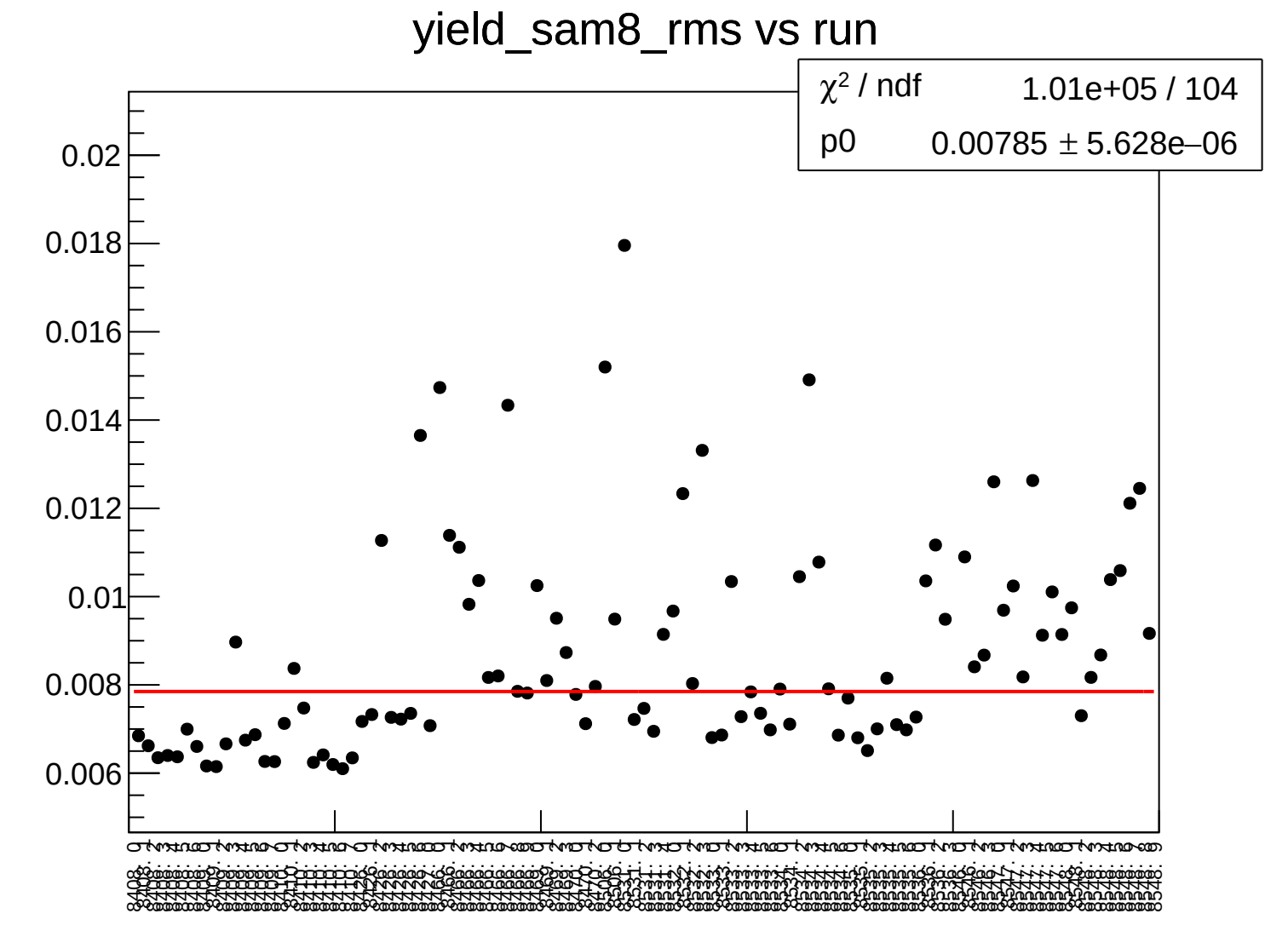

yield_sam7_mean vs run
χ² / ndf 2.59e+08 / 104
p0 2.272 ± 4.183e−06
2.38
2.36
2.34
2.32
2.3
2.28
2.26
2.24
2.22
2.2
pull
Entries 105
Mean −1083
Std Dev 0
3000
2000
1000
0
−1000
−2000

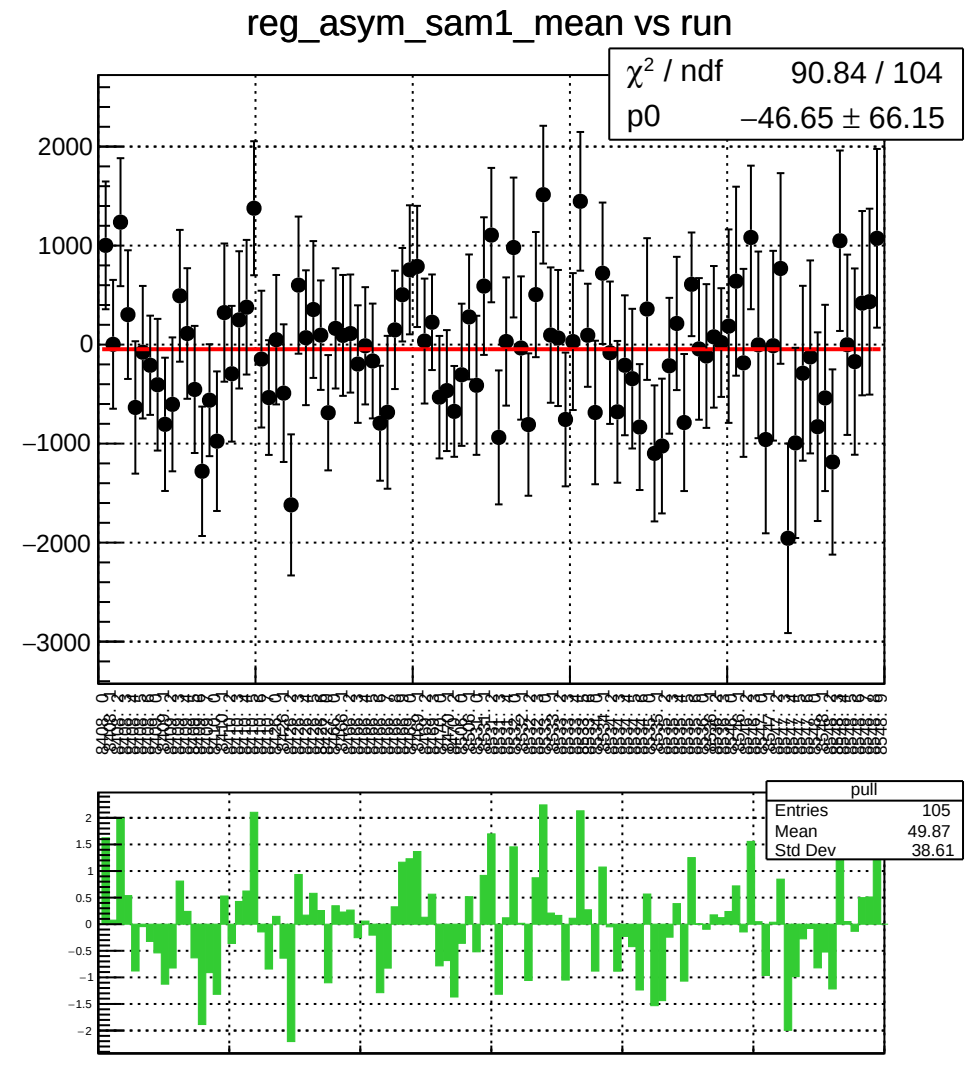

pull1D
Entries 105
Mean 0.6544
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

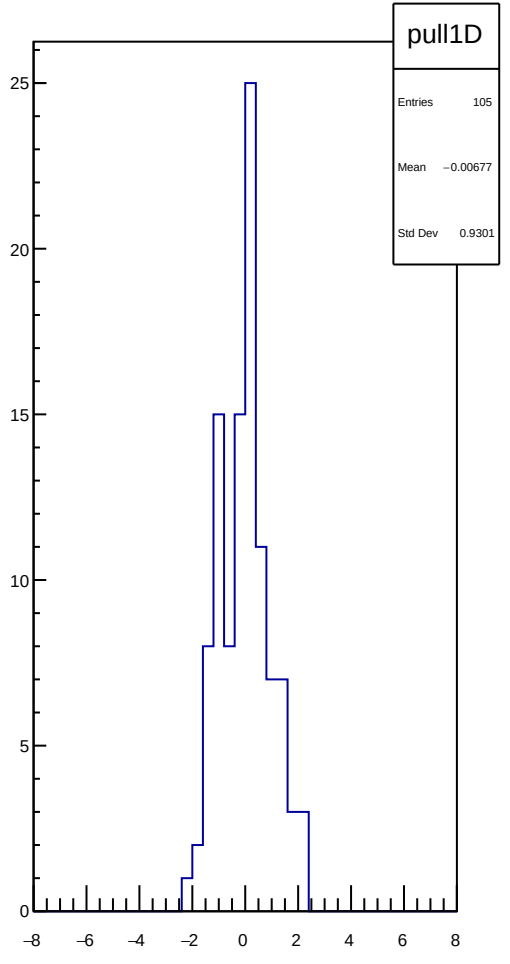

yield_sam7_rms vs run
χ² / ndf 7.469e+04 / 104
p0 0.004153 ± 2.958e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003

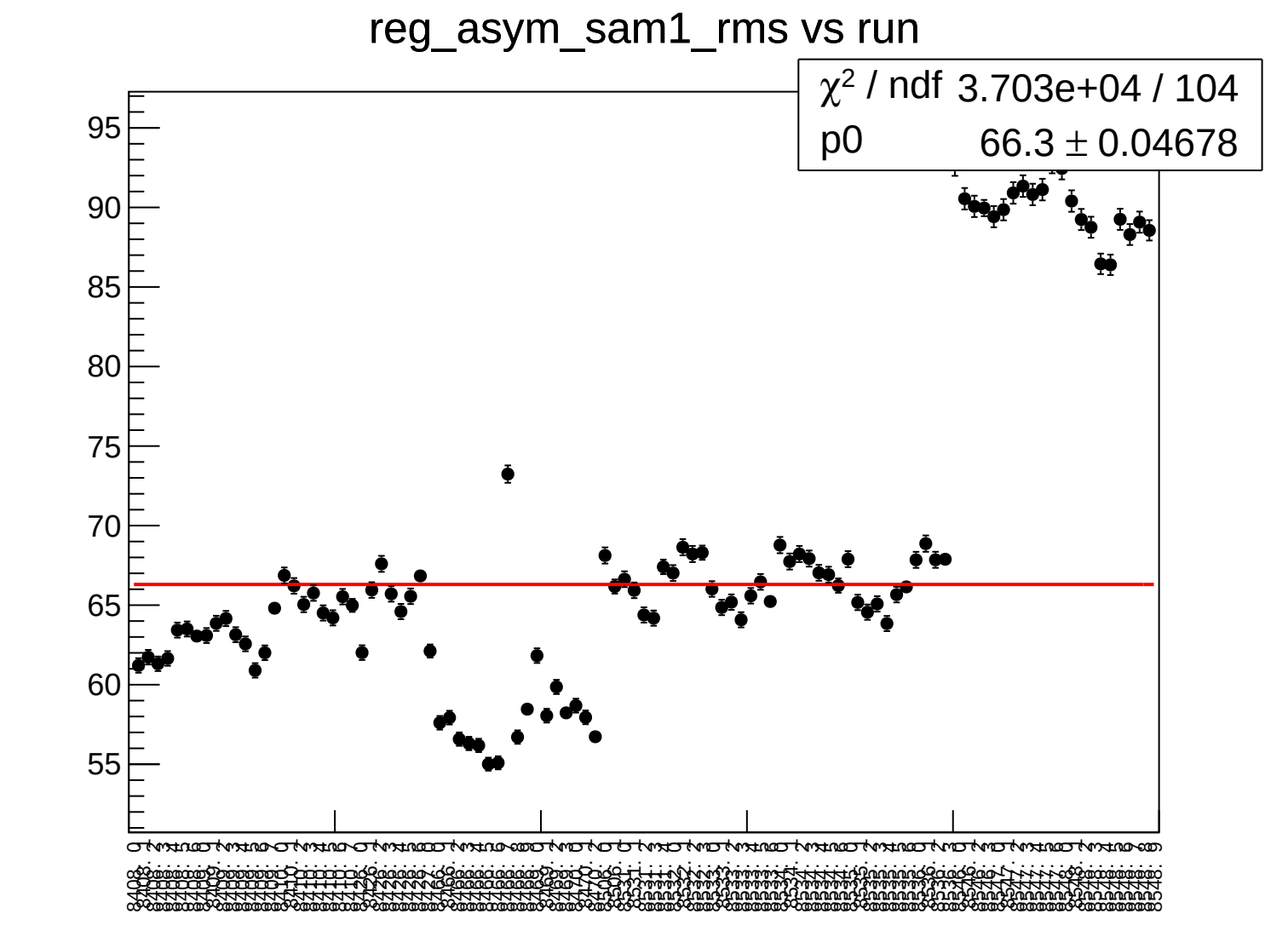

yield_sam8_mean vs run
χ² / ndf 2.507e+08 / 104
p0 8.486 ± 7.96e−06
8.75
8.7
8.65
8.6
8.55
8.5
8.45
8.4
8.35
8.3
pull
Entries 105
Mean 466.7
Std Dev 0
2000
1000
0
−1000
−2000

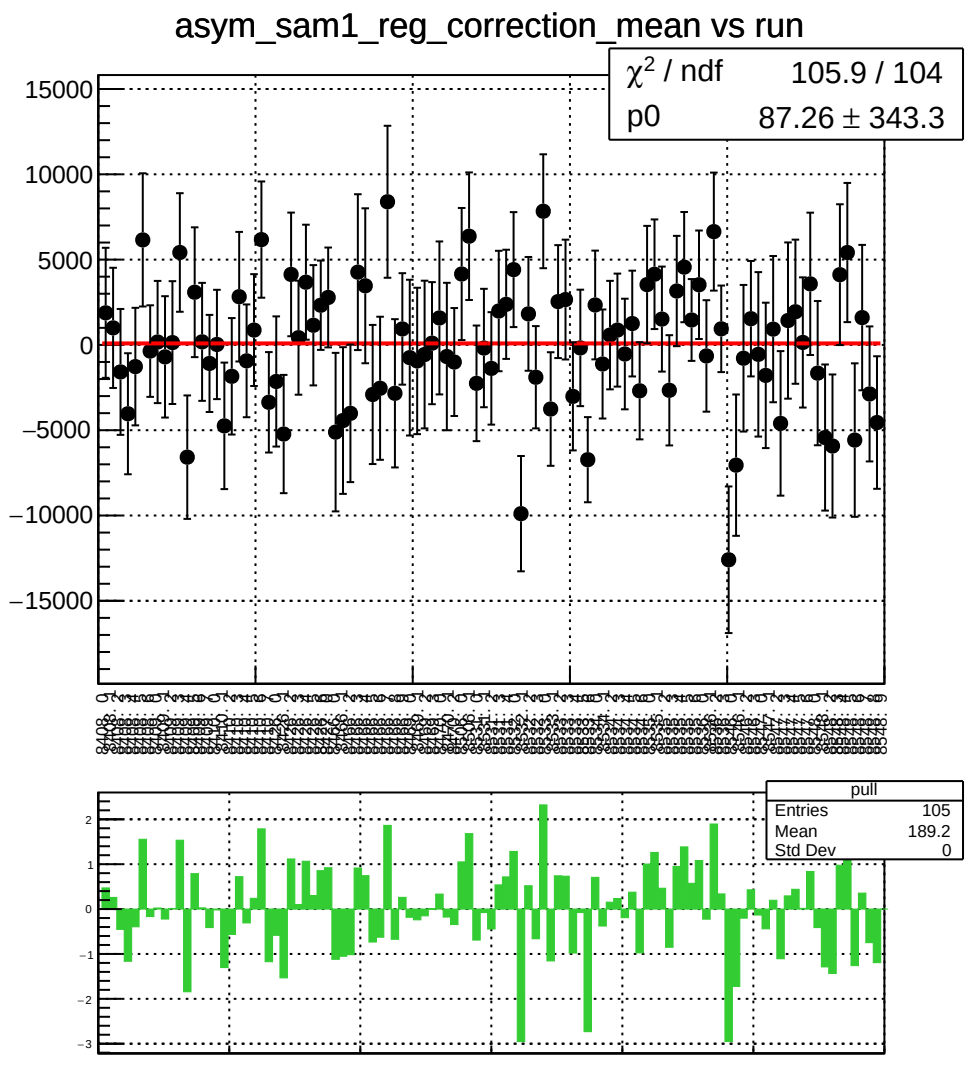

pull1D
Entries 105
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

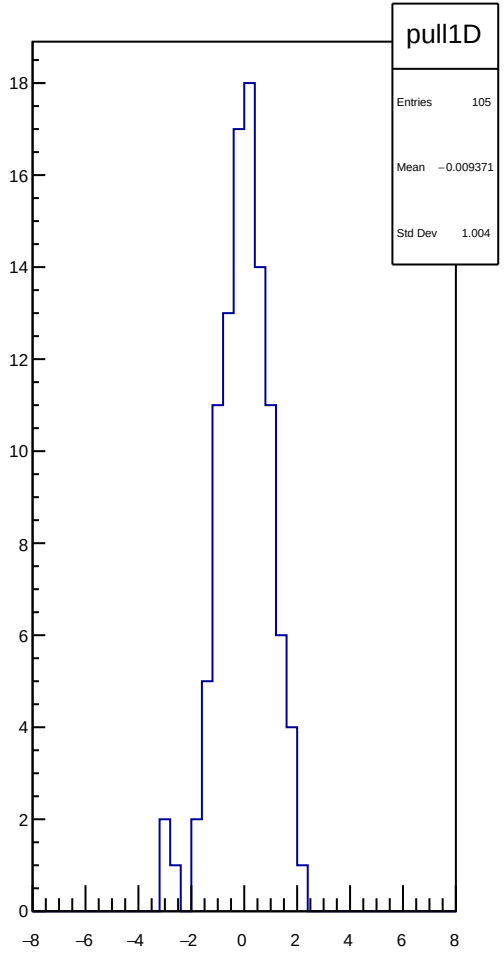

yield_sam8_rms vs run
χ² / ndf 1.01e+05 / 104
p0 0.00785 ± 5.628e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

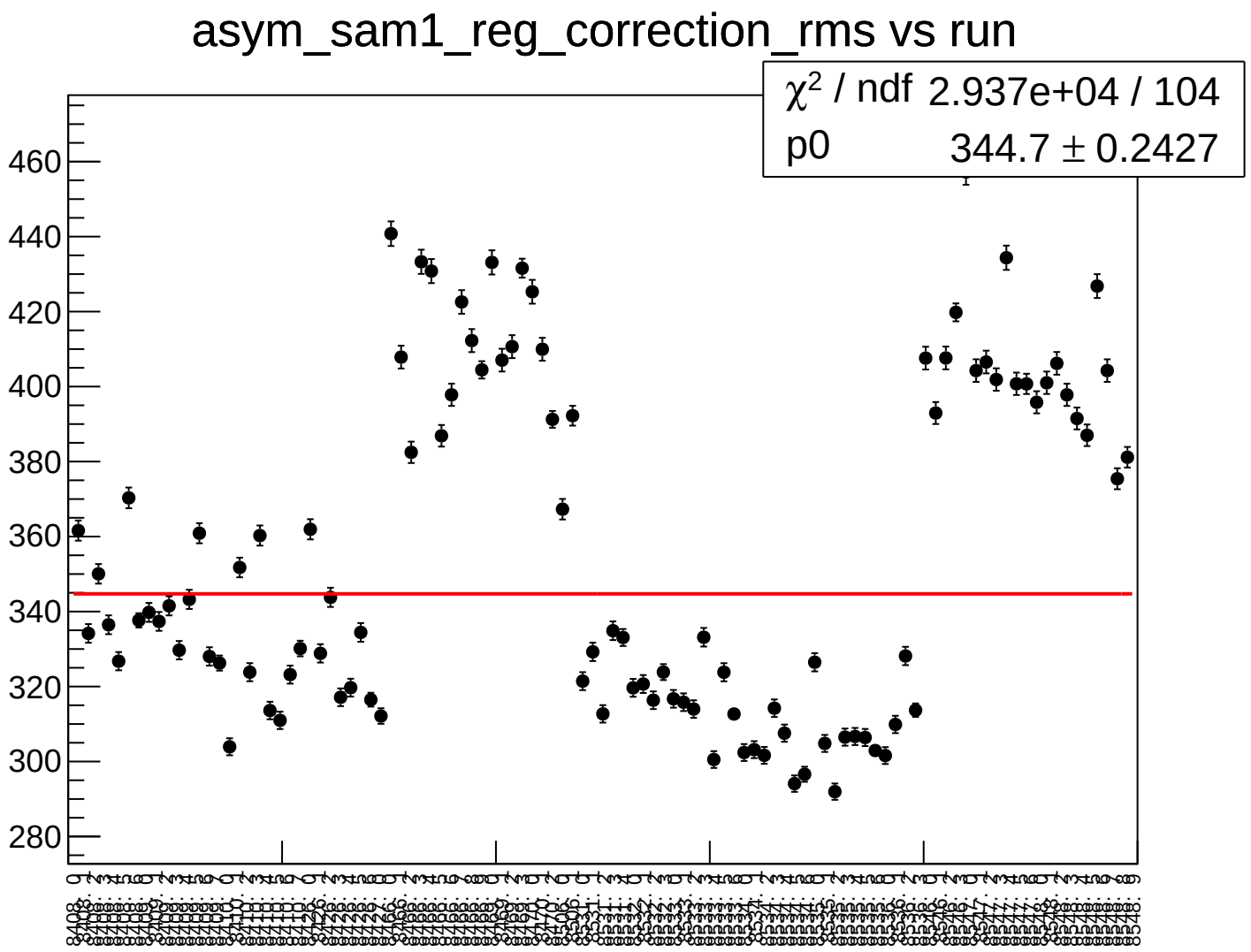

reg_asym_sam1_mean vs run
χ² / ndf 90.84 / 104
p0 −46.65 ± 66.15
2000
1000
0
−1000
−2000
−3000
pull
Entries 105
Mean 49.87
Std Dev 38.61
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

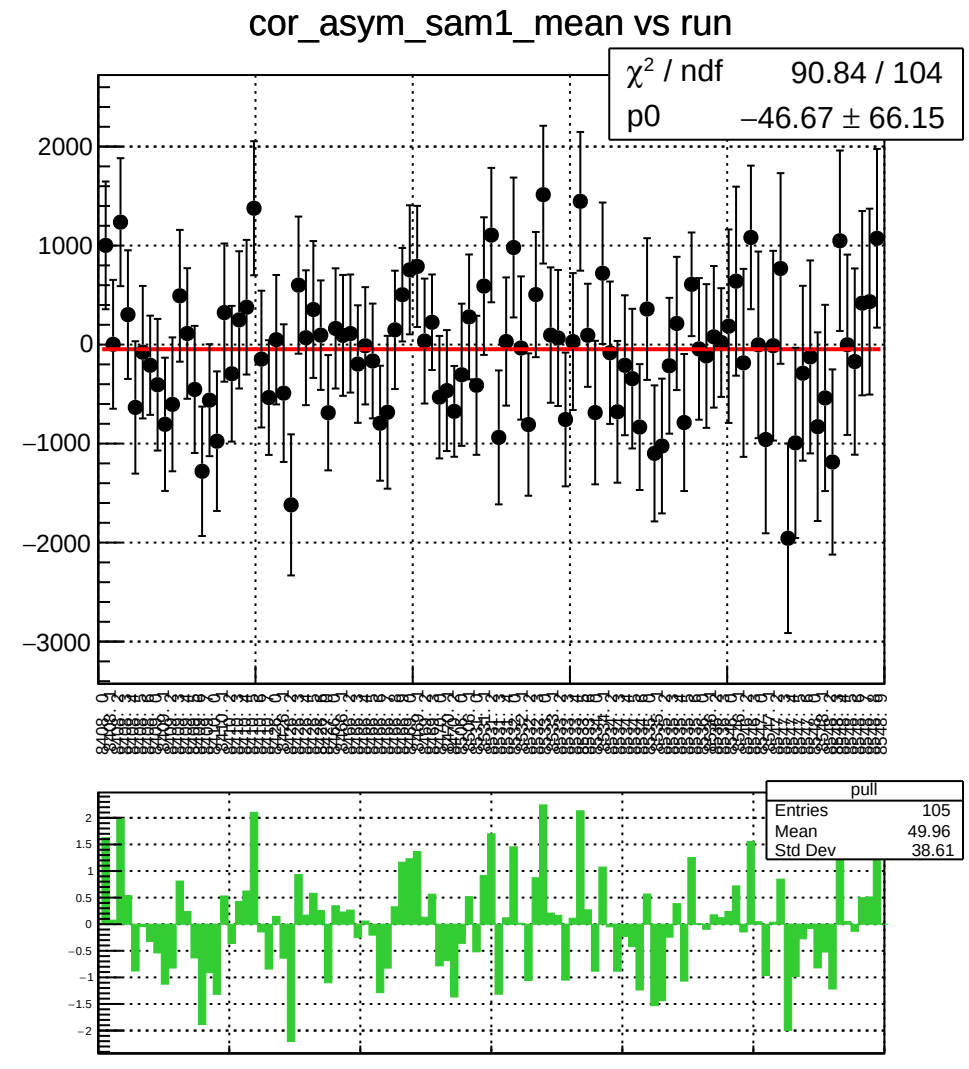

pull1D
Entries 105
Mean −0.00677
Std Dev 0.9301
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

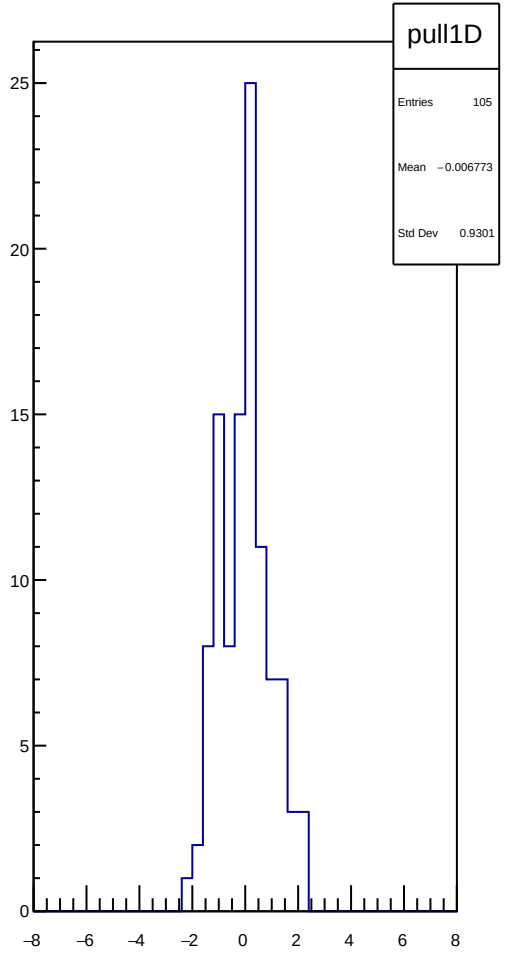

reg_asym_sam1_rms vs run
χ^2 / ndf 3.703e+04 / 104
p0 66.3 ± 0.04678
95
90
85
80
75
70
65
60
55

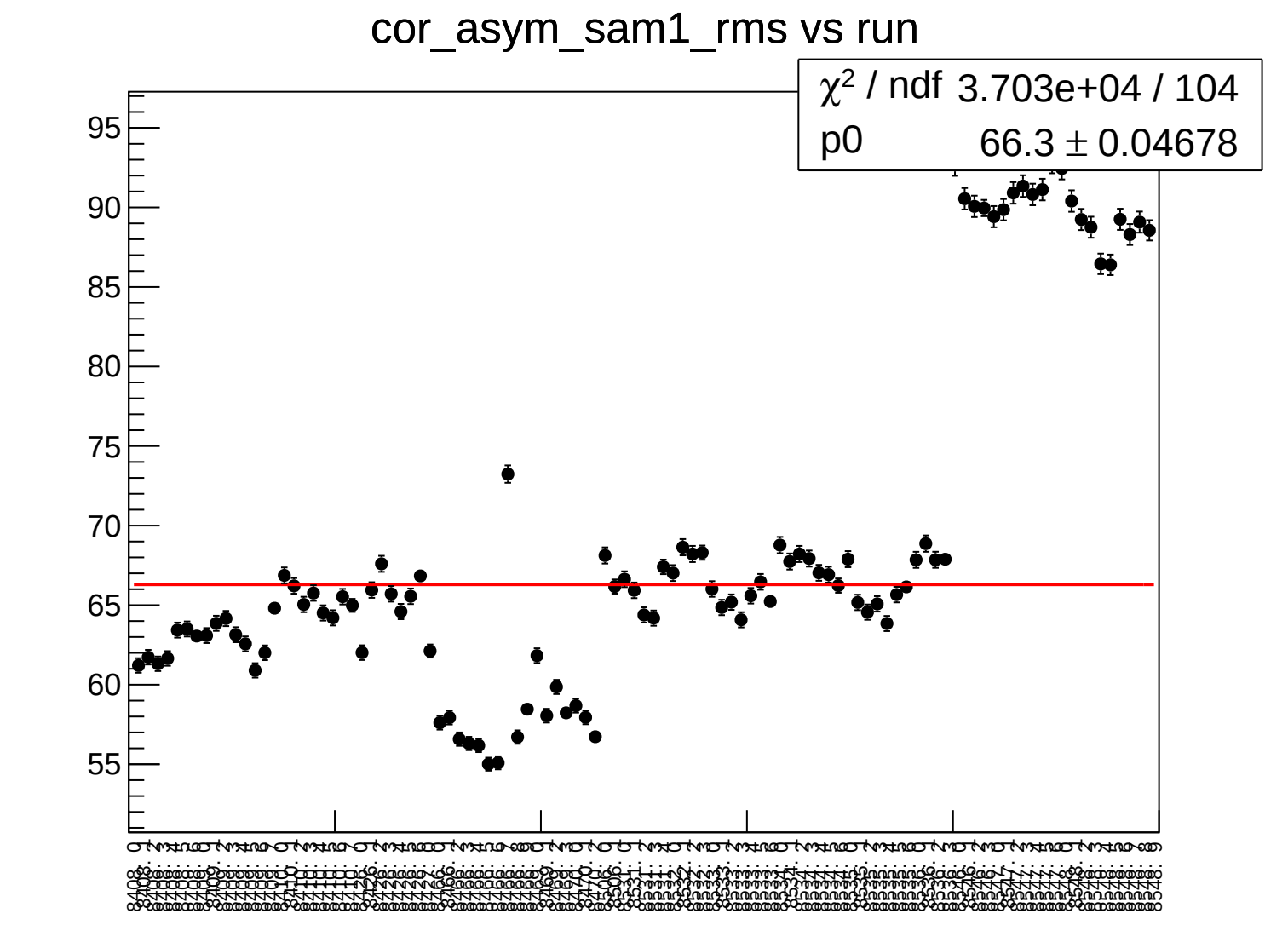

asym_sam1_reg_correction_mean vs run
χ² / ndf 105.9 / 104
p0 87.26 ± 343.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 105
Mean 189.2
Std Dev 0
2
1
0
−1
−2
−3

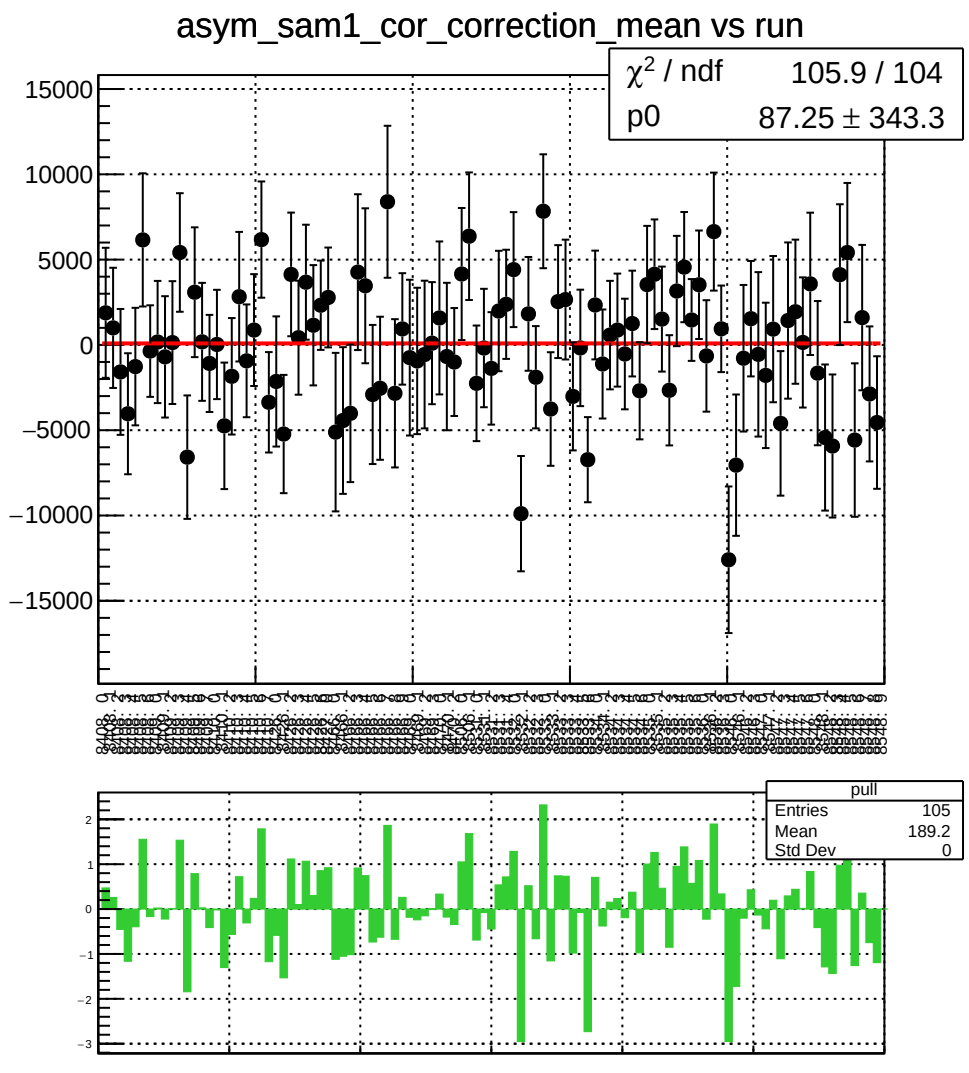

pull1D
Entries 105
Mean −0.009371
Std Dev 1.004
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

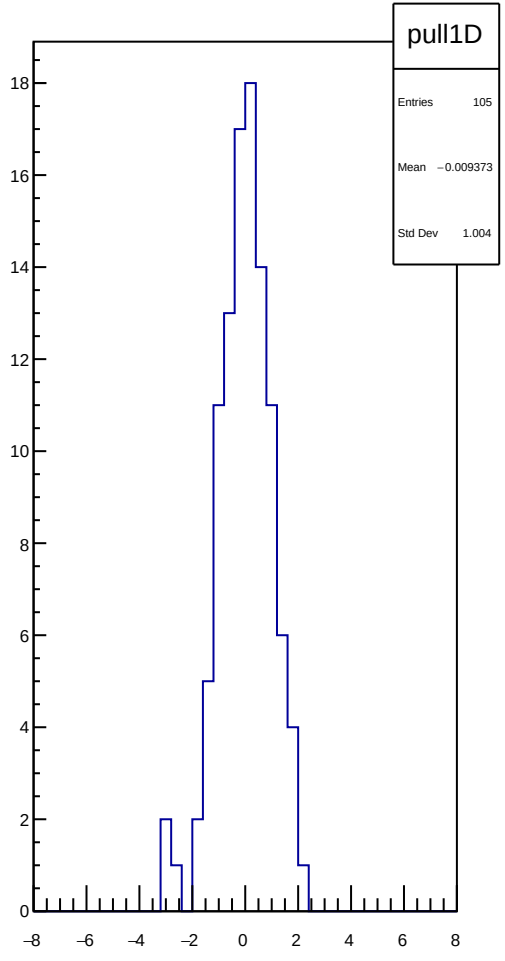

asym_sam1_reg_correction_rms vs run
χ^2 / ndf 2.937e+04 / 104
p0 344.7 ± 0.2427
460
440
420
400
380
360
340
320
300
280

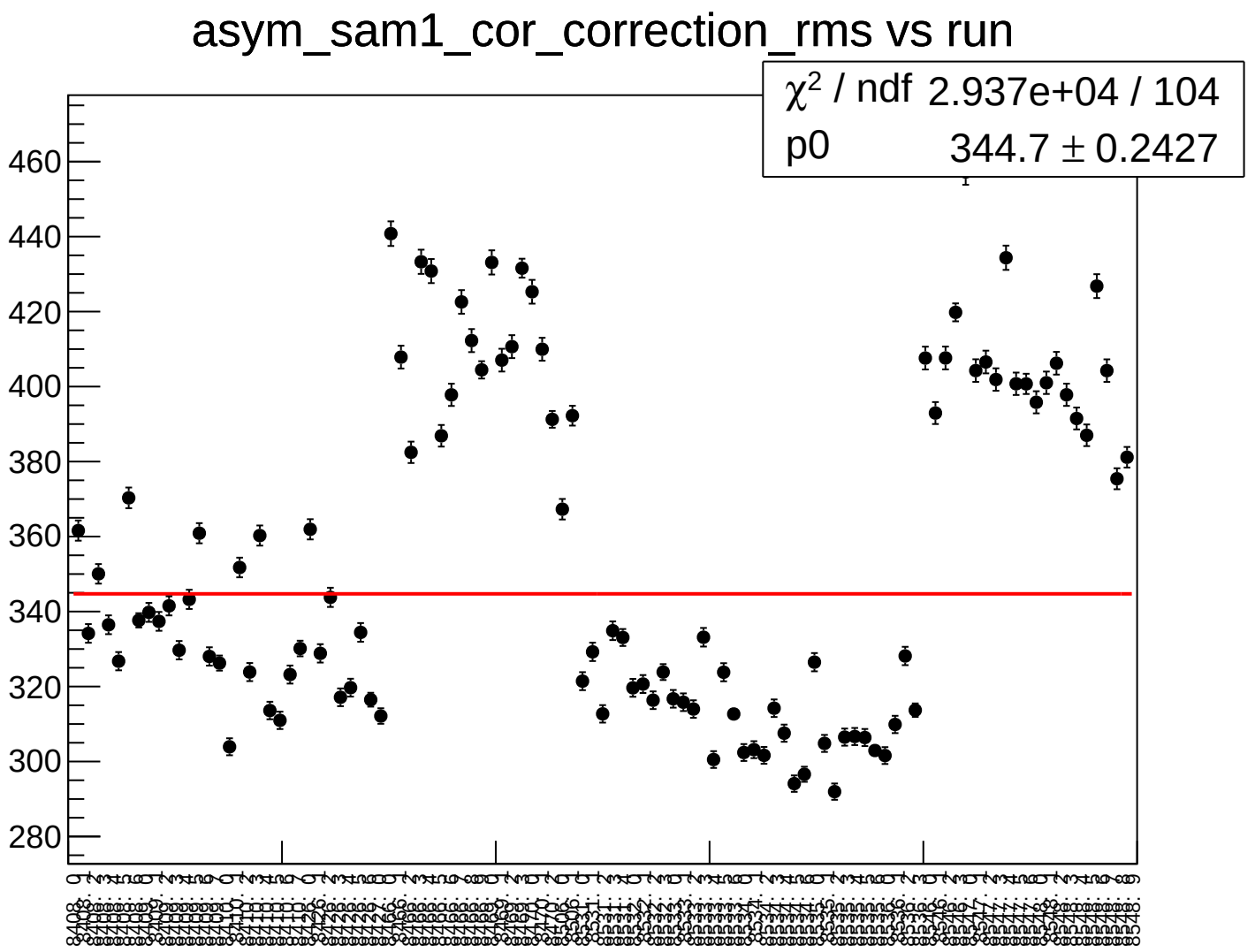

cor_asym_sam1_mean vs run
χ² / ndf 90.84 / 104
p0 −46.67 ± 66.15
2000
1000
0
−1000
−2000
−3000
pull
Entries 105
Mean 49.96
Std Dev 38.61
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

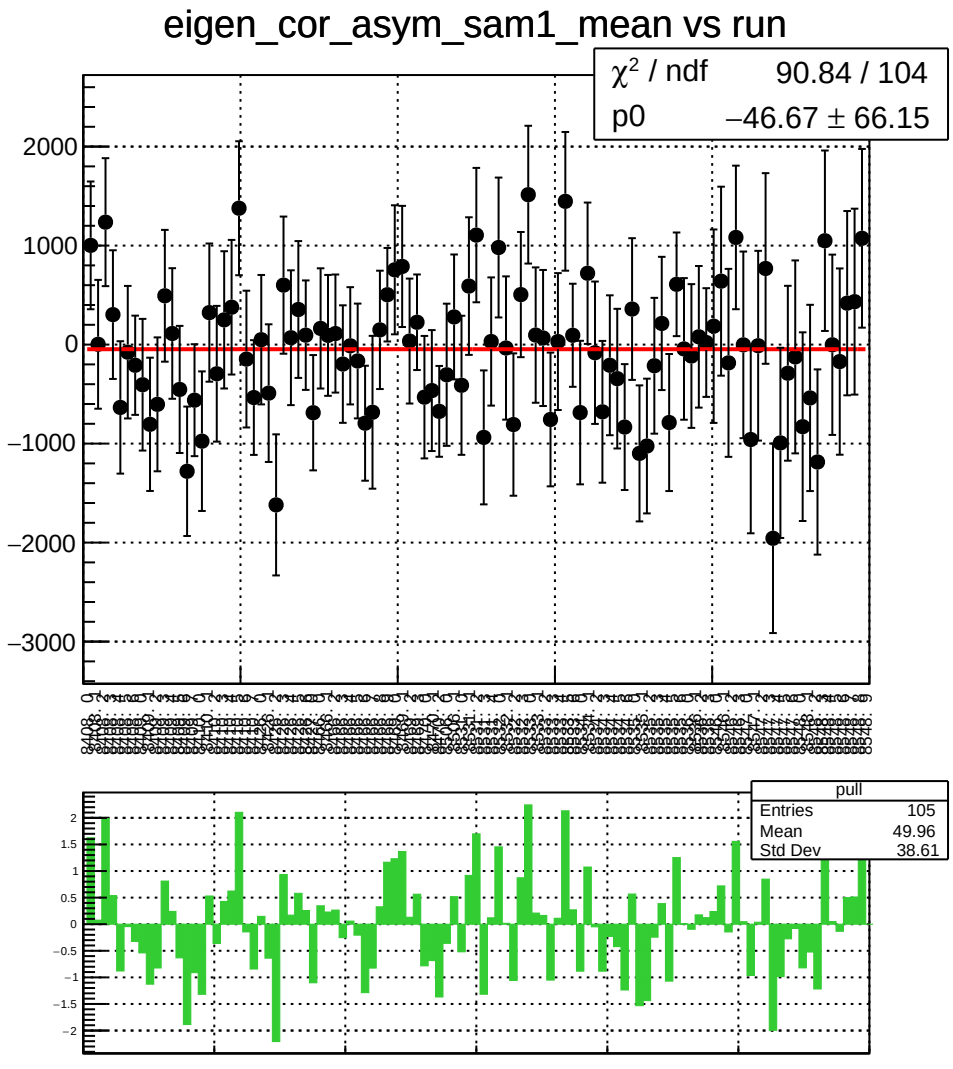

pull1D
Entries 105
Mean −0.006773
Std Dev 0.9301
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

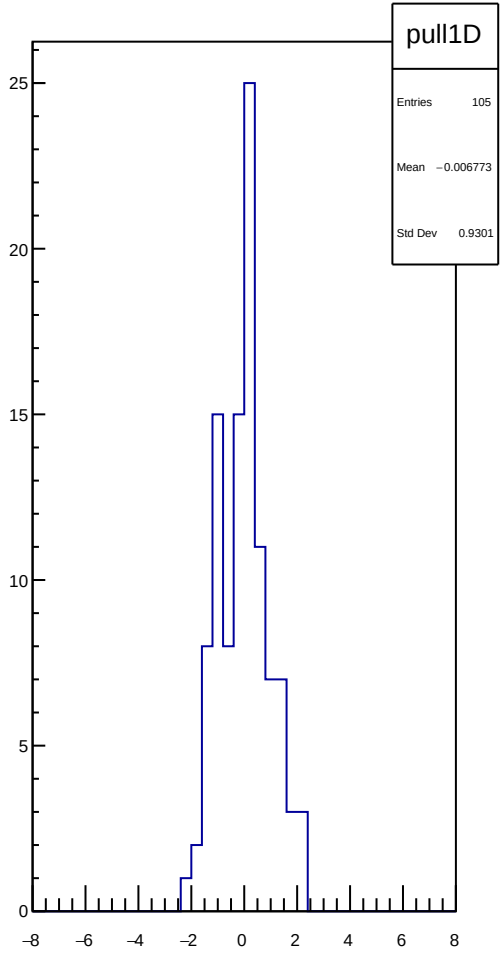

cor_asym_sam1_rms vs run
χ^2 / ndf 3.703e+04 / 104
p0 66.3 ± 0.04678
95
90
85
80
75
70
65
60
55

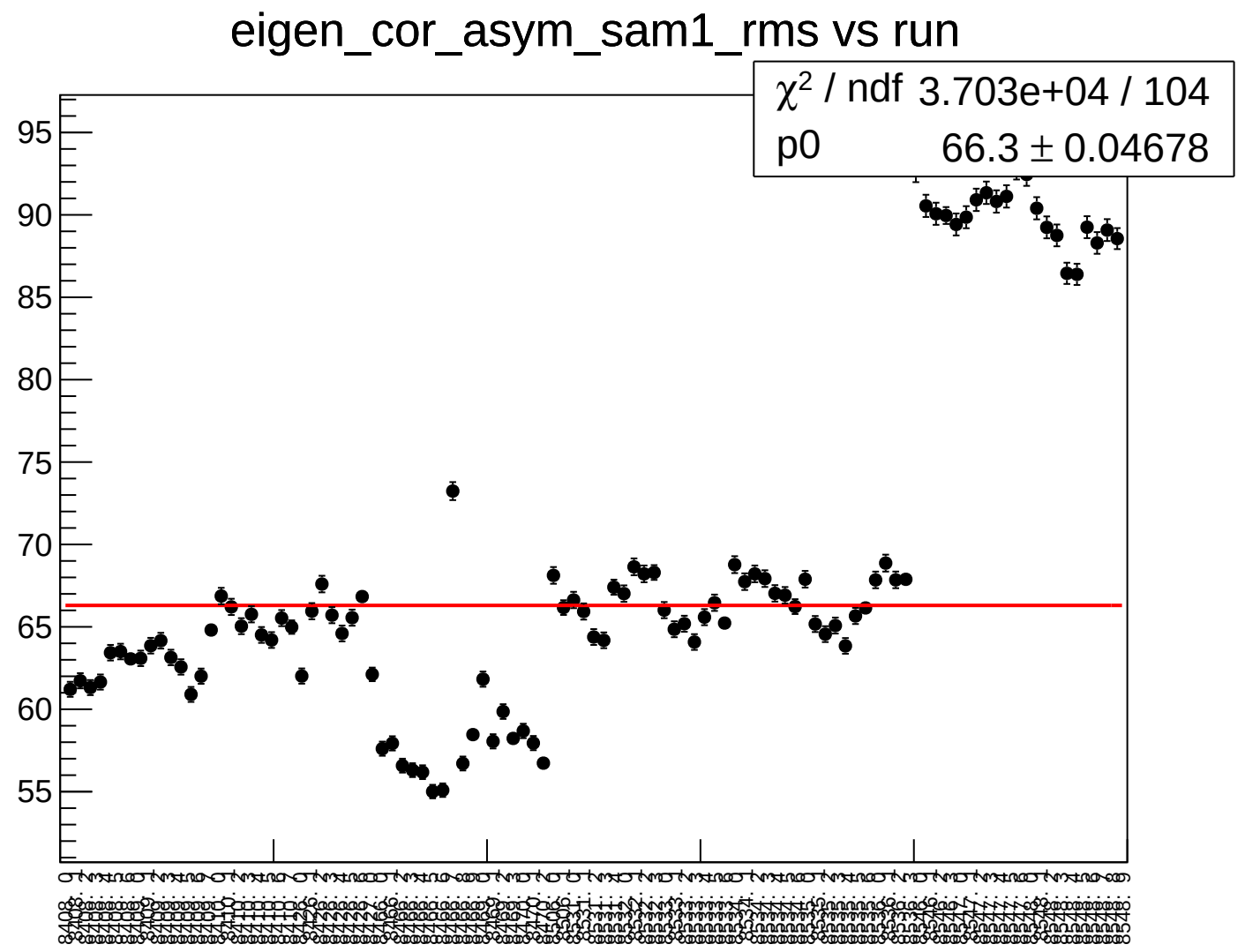

asym_sam1_cor_correction_mean vs run
χ² / ndf 105.9 / 104
p0 87.25 ± 343.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 105
Mean 189.2
Std Dev 0
2
1
0
−1
−2
−3

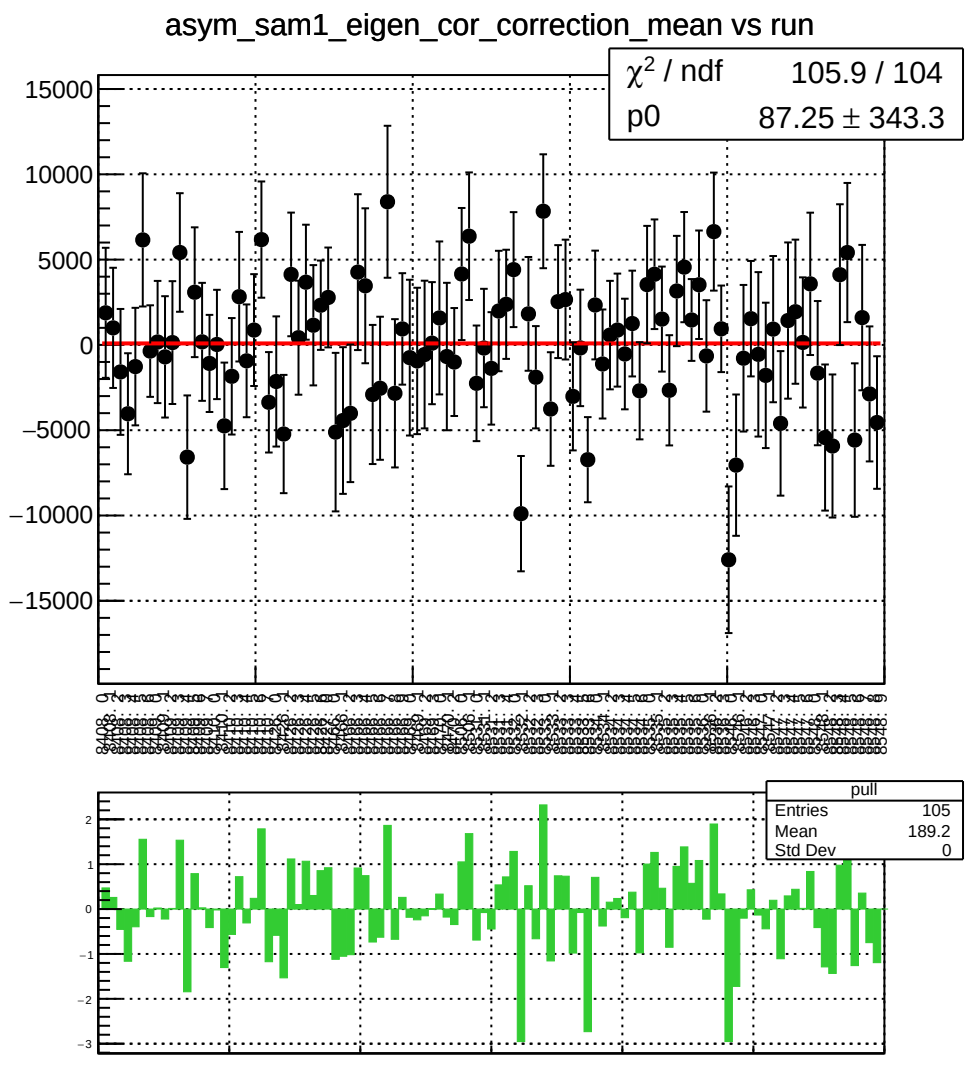

pull1D
Entries 105
Mean −0.009373
Std Dev 1.004
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

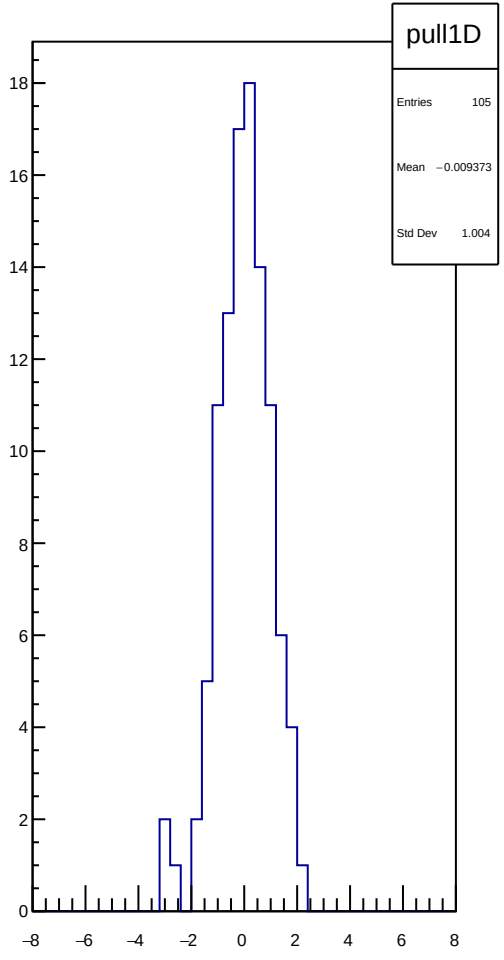

asym_sam1_cor_correction_rms vs run
χ^2 / ndf 2.937e+04 / 104
p0 344.7 ± 0.2427
460
440
420
400
380
360
340
320
300
280

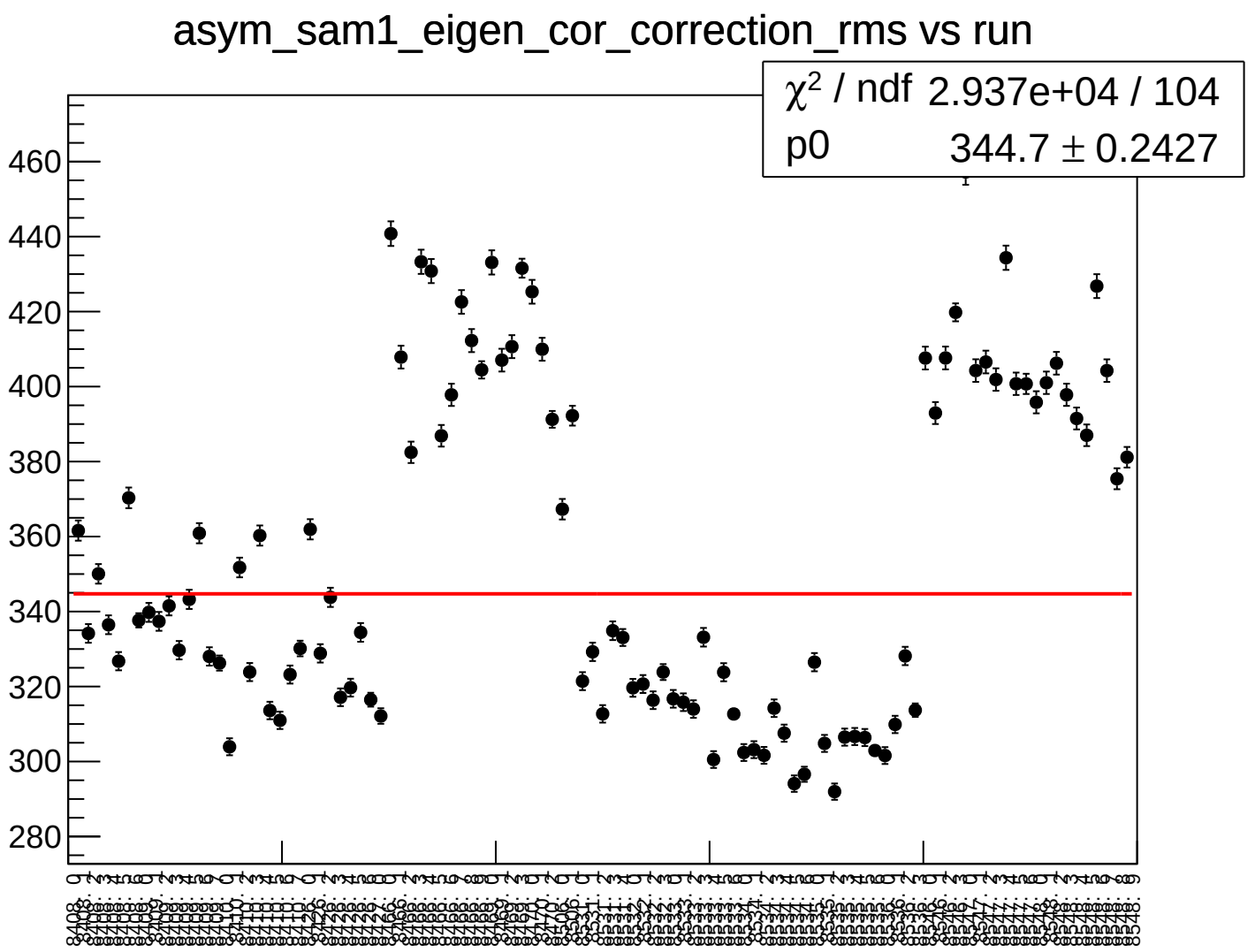

eigen_cor_asym_sam1_mean vs run
χ² / ndf 90.84 / 104
p0 −46.67 ± 66.15
2000
1000
0
−1000
−2000
−3000
pull
Entries 105
Mean 49.96
Std Dev 38.61
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

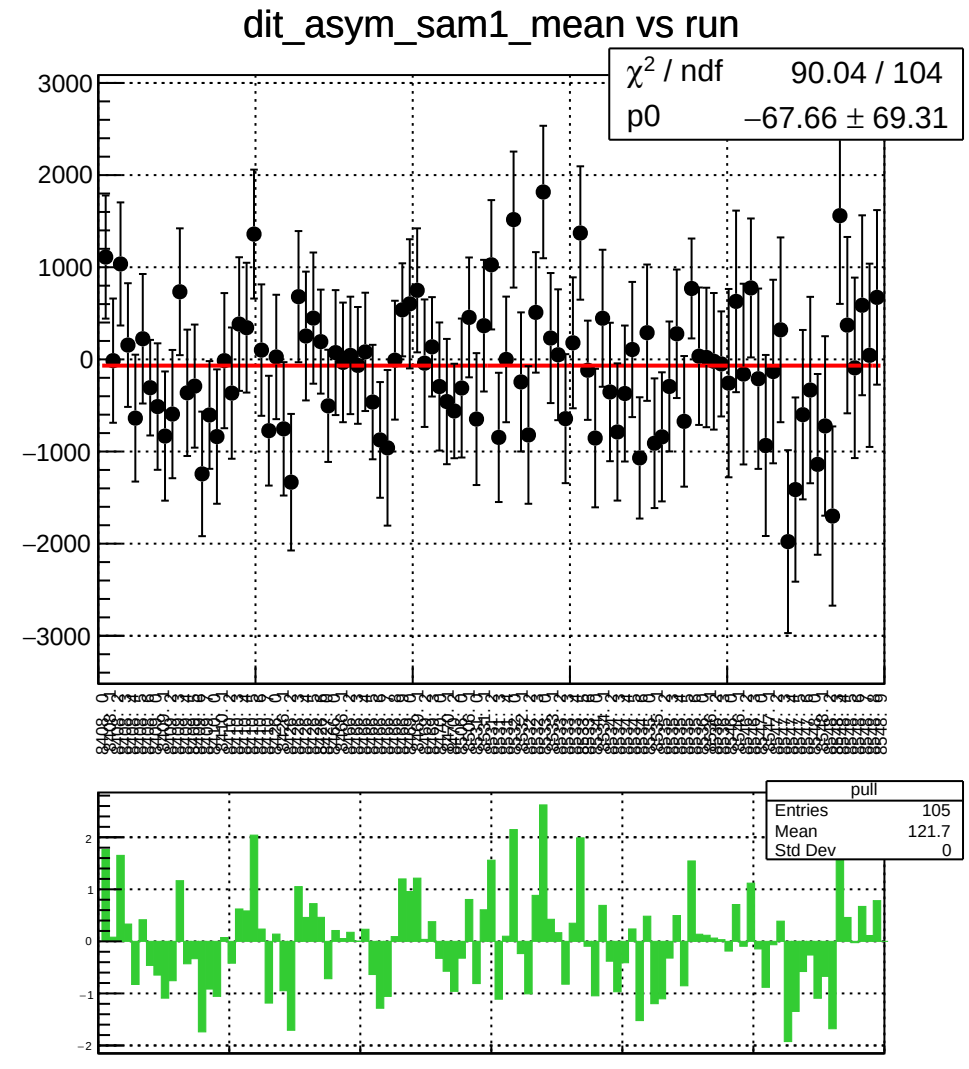

pull1D
Entries 105
Mean −0.006773
Std Dev 0.9301
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

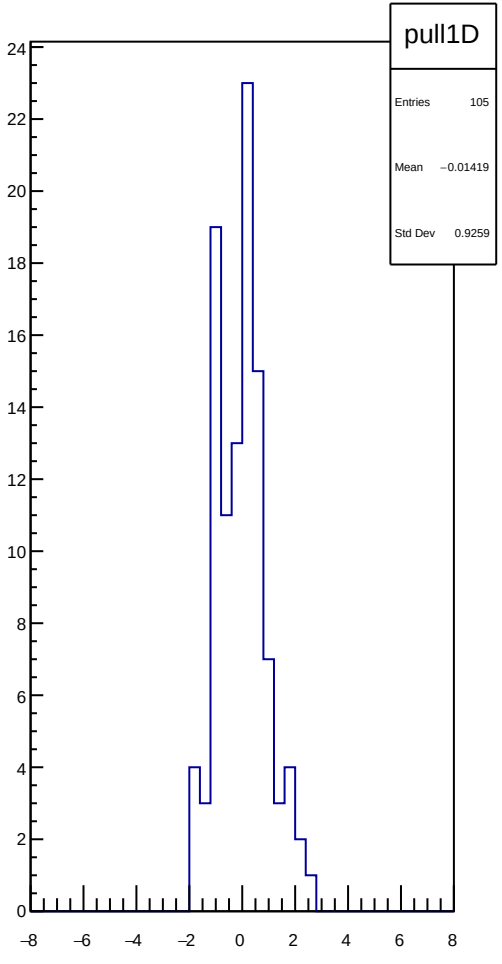

eigen_cor_asym_sam1_rms vs run
χ^2 / ndf 3.703e+04 / 104
p0 66.3 ± 0.04678
95
90
85
80
75
70
65
60
55

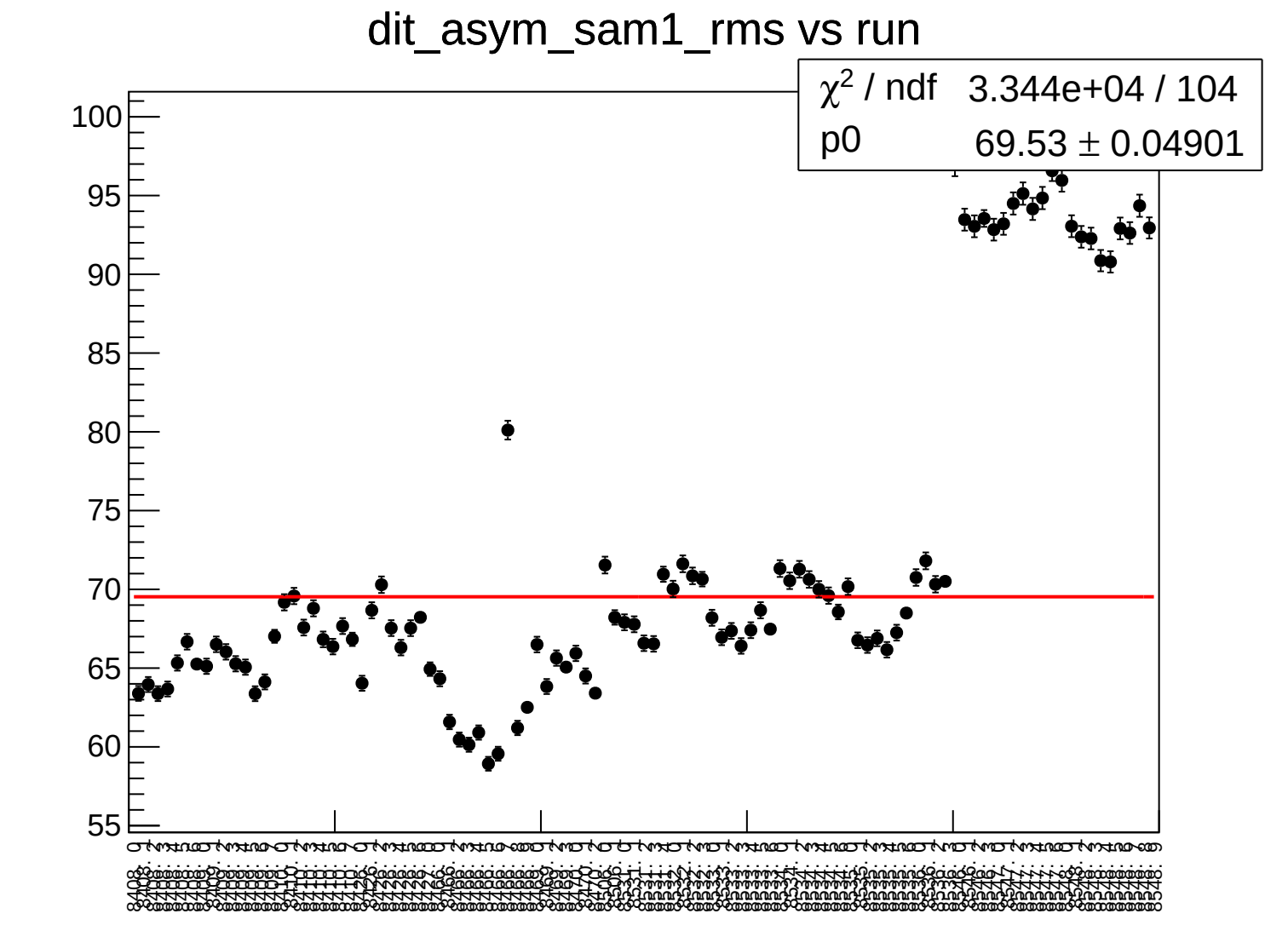

asym_sam1_eigen_cor_correction_mean vs run
χ² / ndf 105.9 / 104
p0 87.25 ± 343.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 105
Mean 189.2
Std Dev 0
2
1
0
−1
−2
−3

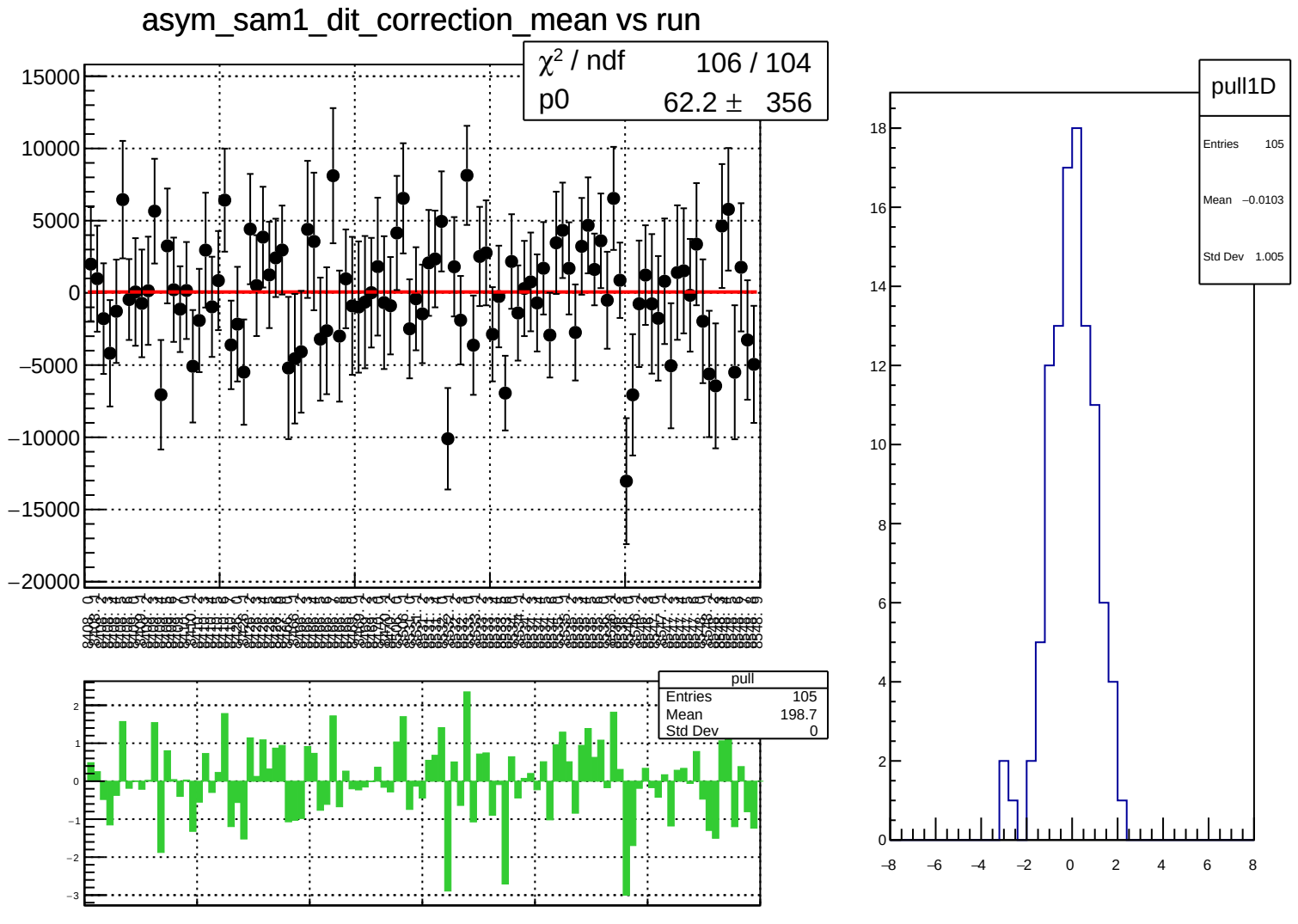

pull1D
Entries 105
Mean −0.009373
Std Dev 1.004
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

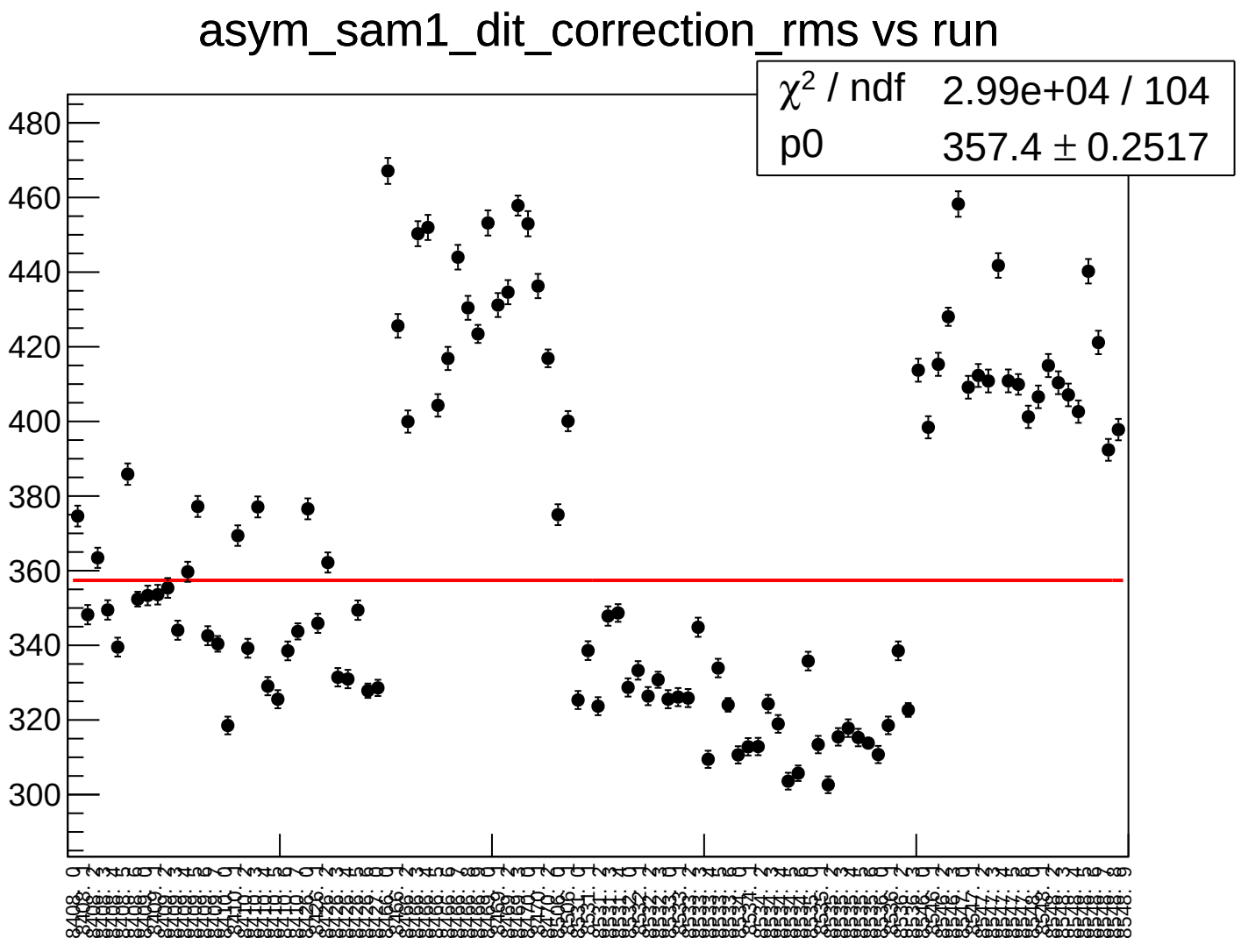

asym_sam1_eigen_cor_correction_rms vs run
χ^2 / ndf 2.937e+04 / 104
p0 344.7 ± 0.2427
460
440
420
400
380
360
340
320
300
280

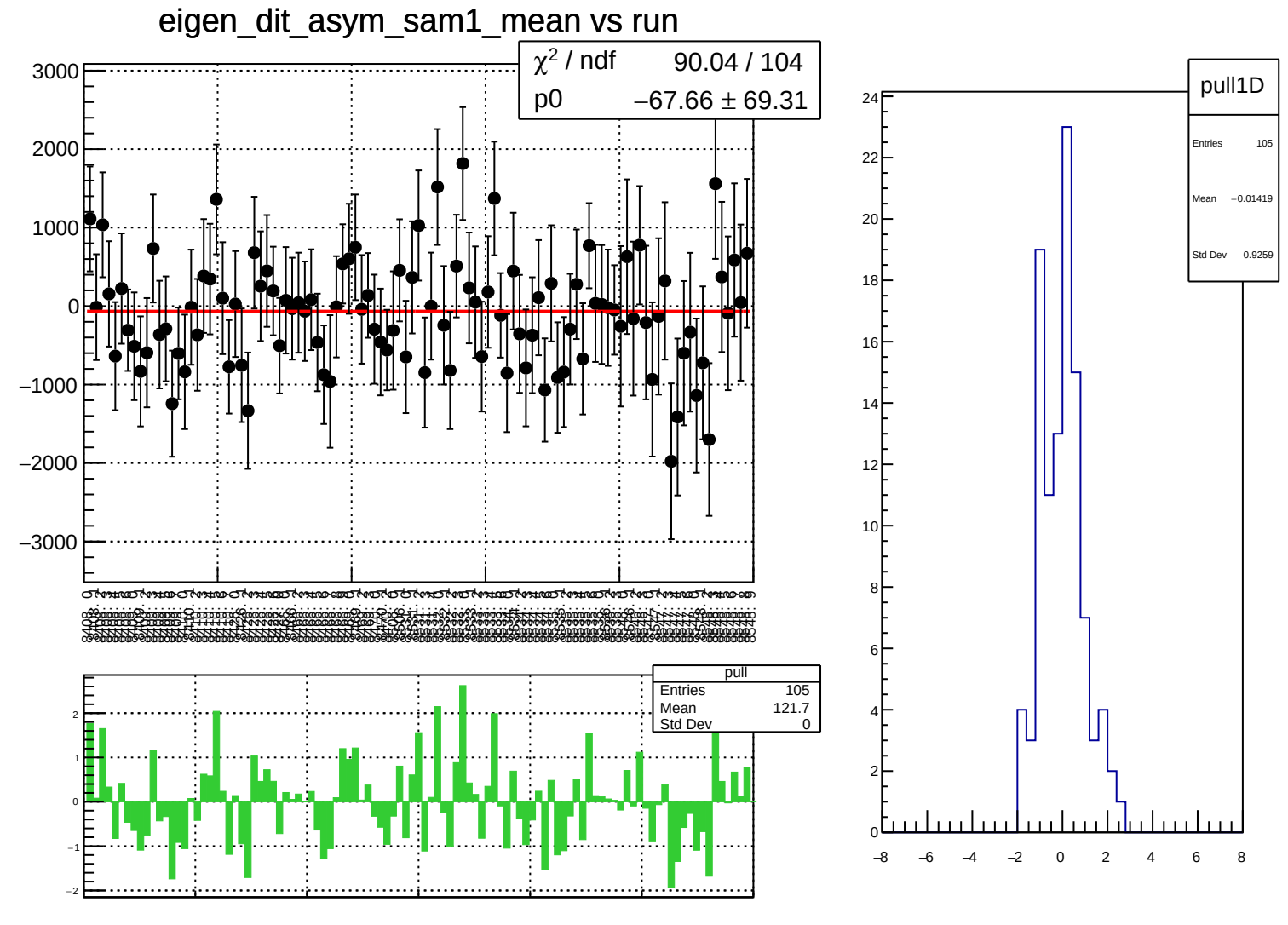

dit_asym_sam1_mean vs run
χ² / ndf 90.04 / 104
p0 −67.66 ± 69.31
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 105
Mean 121.7
Std Dev 0
2
1
0
−1
−2

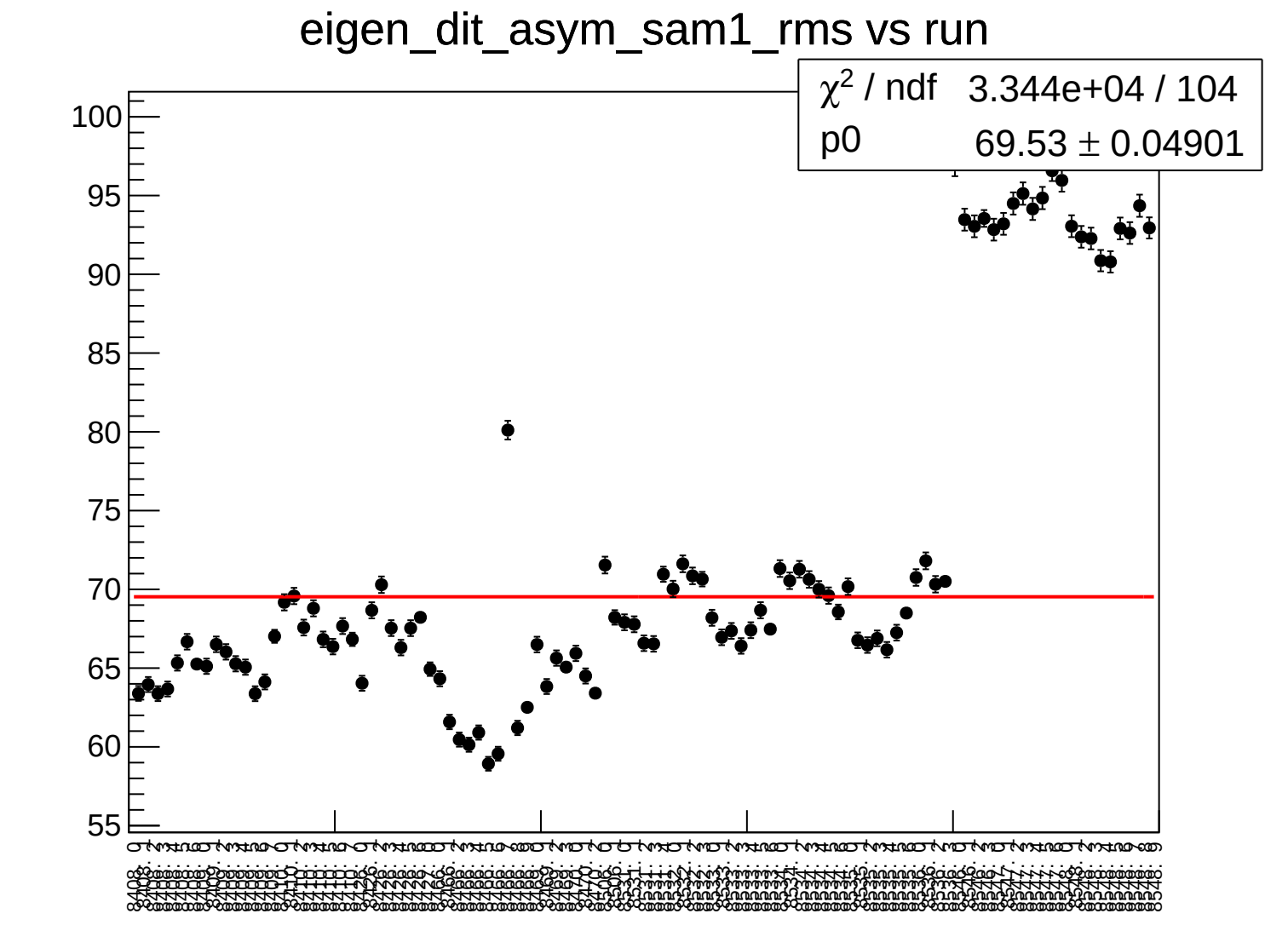

pull1D
Entries 105
Mean −0.01419
Std Dev 0.9259
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

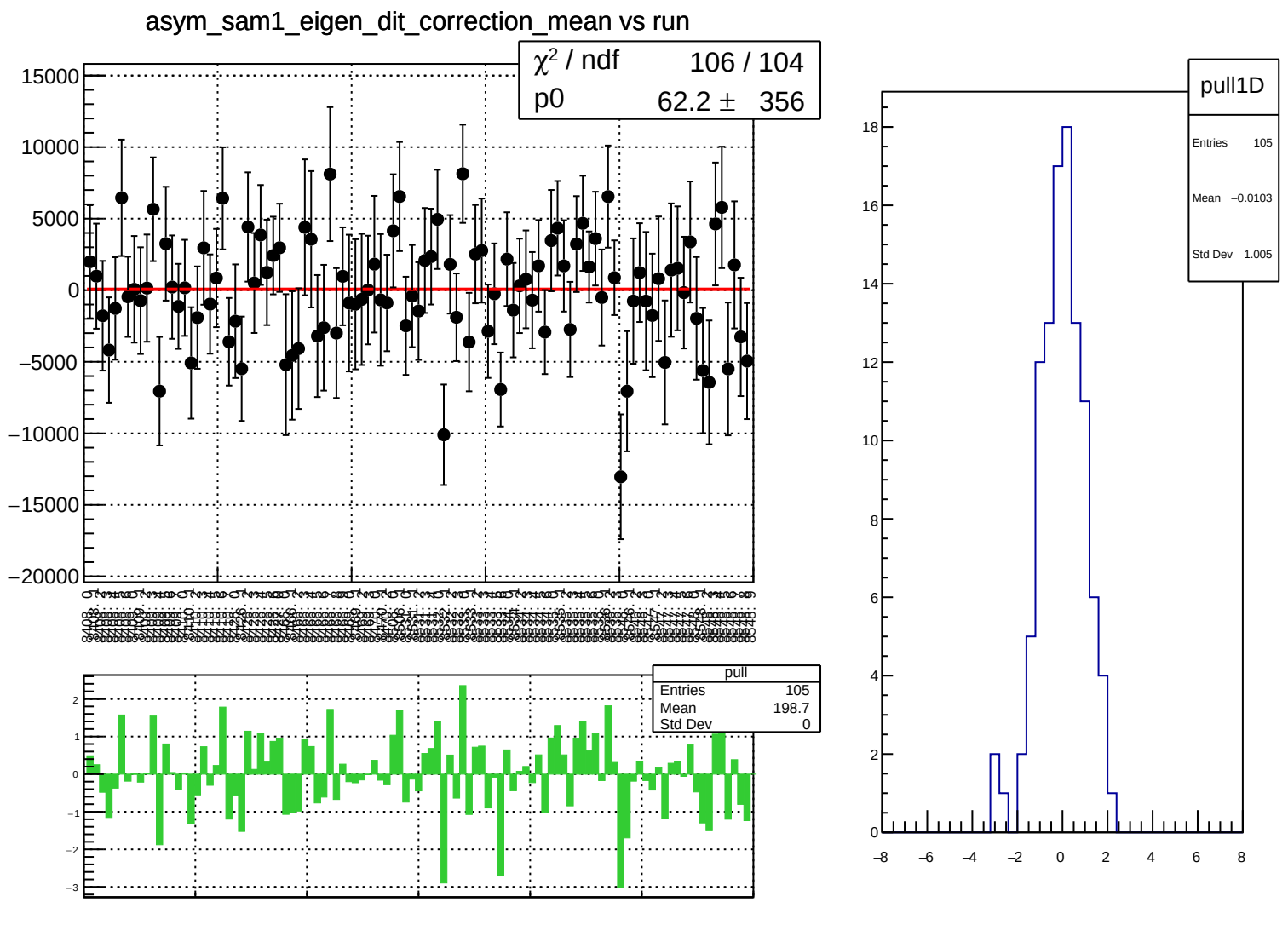

dit_asym_sam1_rms vs run
χ^2 / ndf 3.344e+04 / 104
p0 69.53 ± 0.04901
100
95
90
85
80
75
70
65
60
55

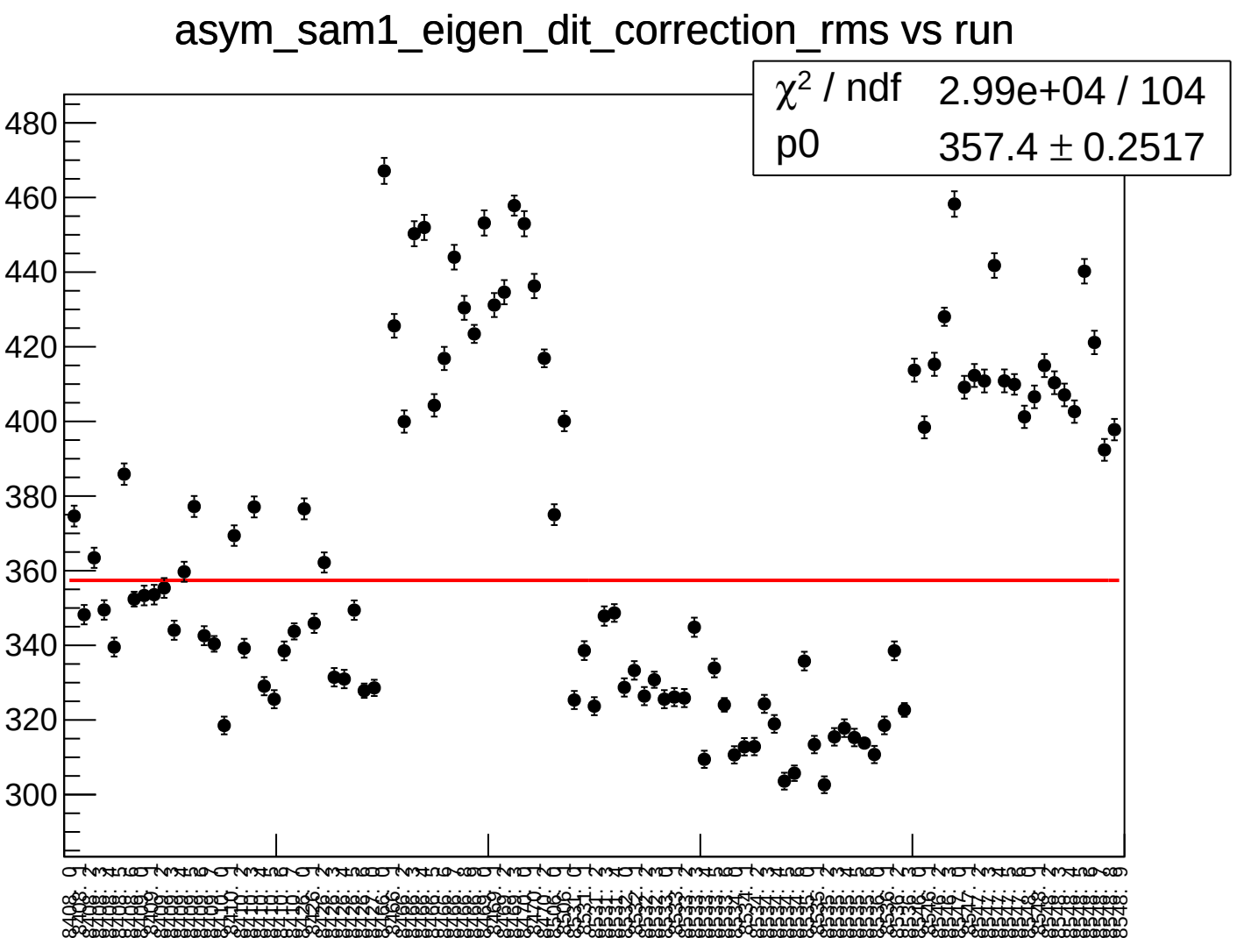

asym_sam1_dit_correction_mean vs run
χ² / ndf 106 / 104
p0 62.2 ± 356
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 105
Mean 198.7
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 105
Mean −0.0103
Std Dev 1.005
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

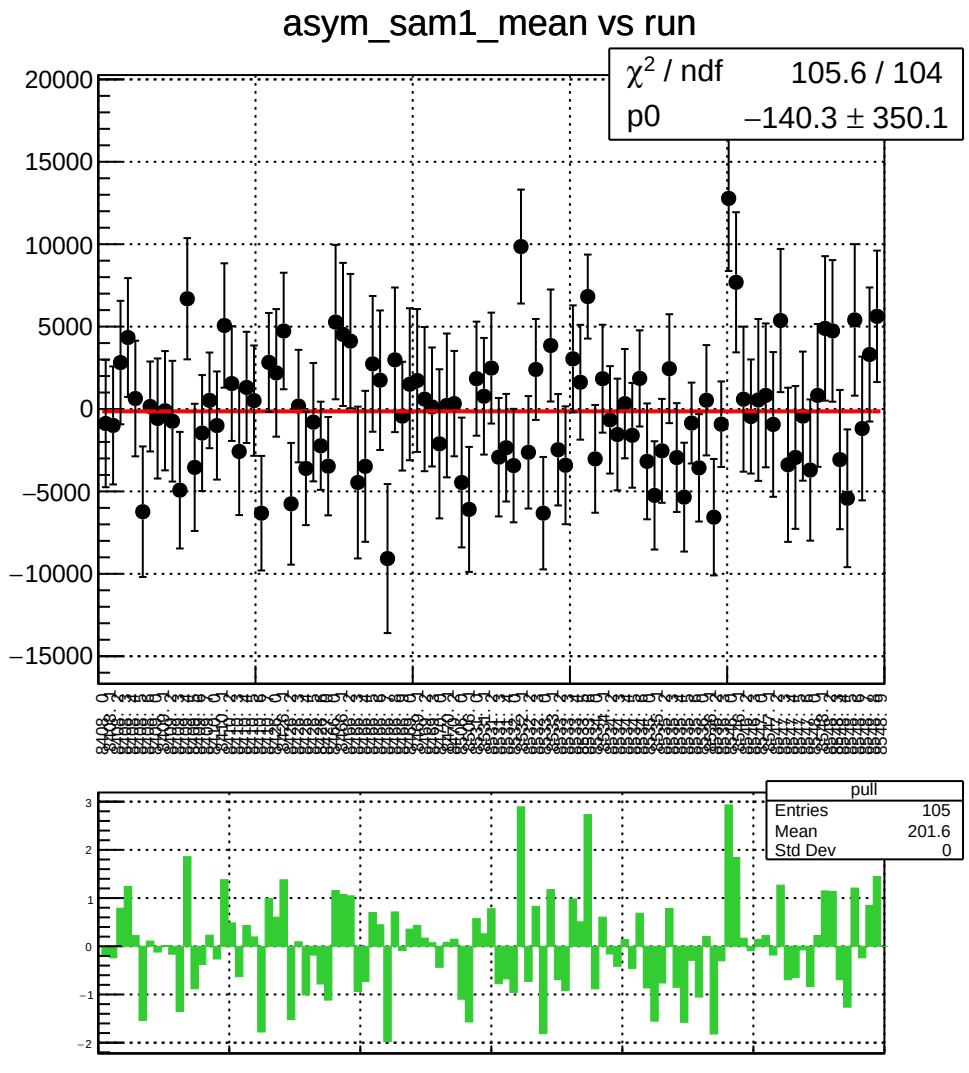

asym_sam1_dit_correction_rms vs run
χ² / ndf 2.99e+04 / 104
p0 357.4 ± 0.2517
480
460
440
420
400
380
360
340
320
300

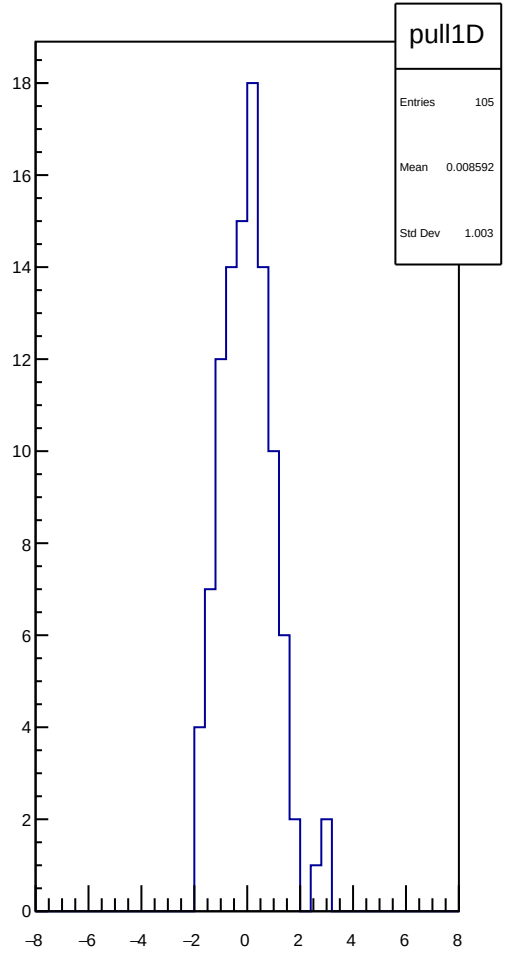

eigen_dit_asym_sam1_mean vs run
χ² / ndf 90.04 / 104
p0 −67.66 ± 69.31
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 105
Mean 121.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.01419
Std Dev 0.9259
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

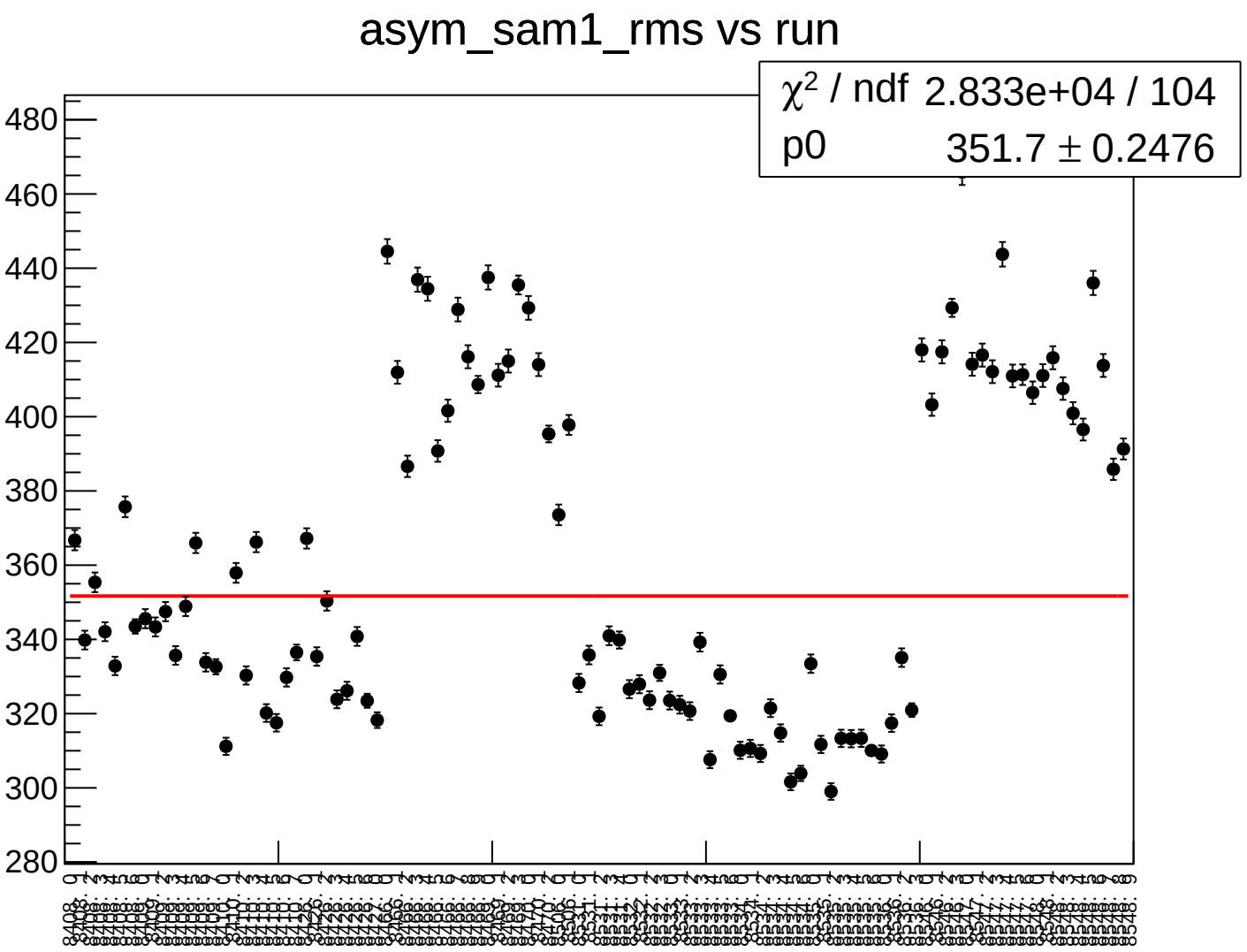

eigen_dit_asym_sam1_rms vs run
χ^2 / ndf 3.344e+04 / 104
p0 69.53 ± 0.04901
100
95
90
85
80
75
70
65
60
55

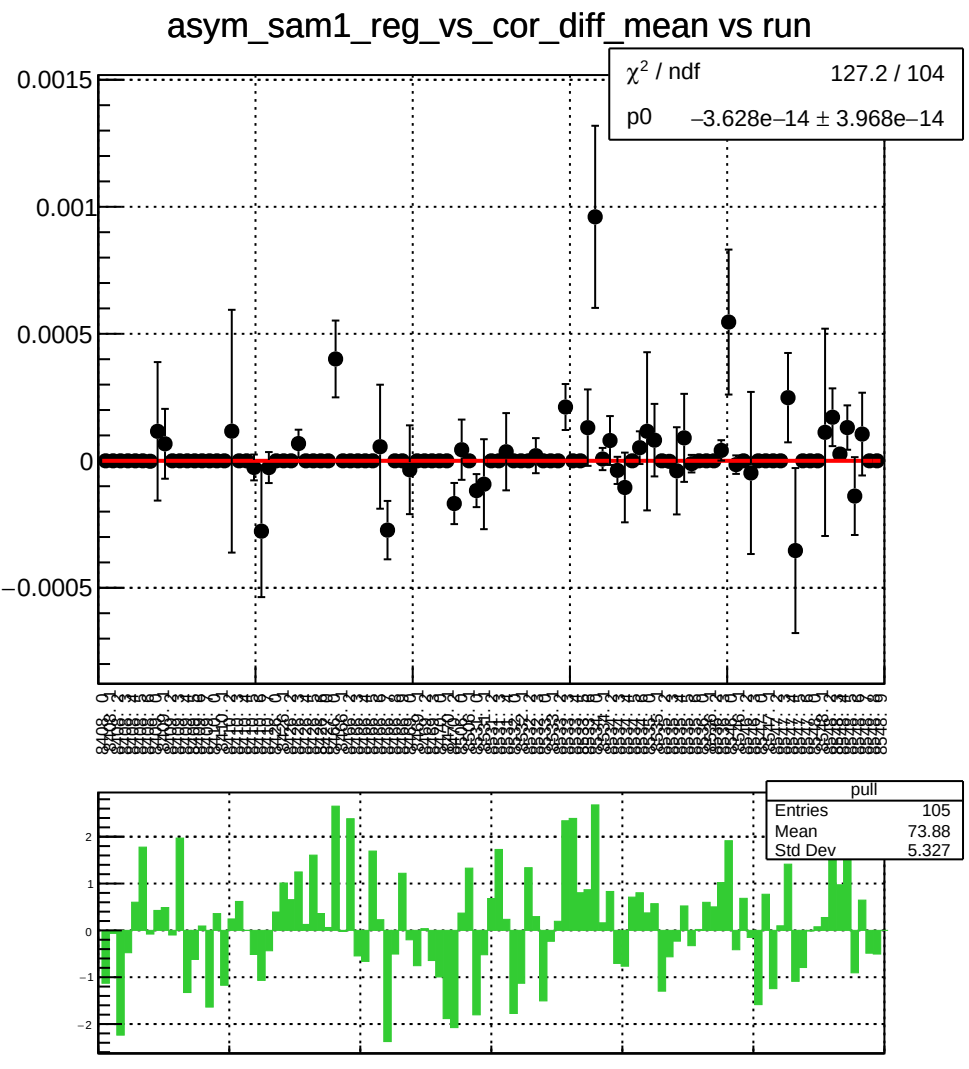

asym_sam1_eigen_dit_correction_mean vs run
χ² / ndf 106 / 104
p0 62.2 ± 356
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 105
Mean 198.7
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 105
Mean −0.0103
Std Dev 1.005
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

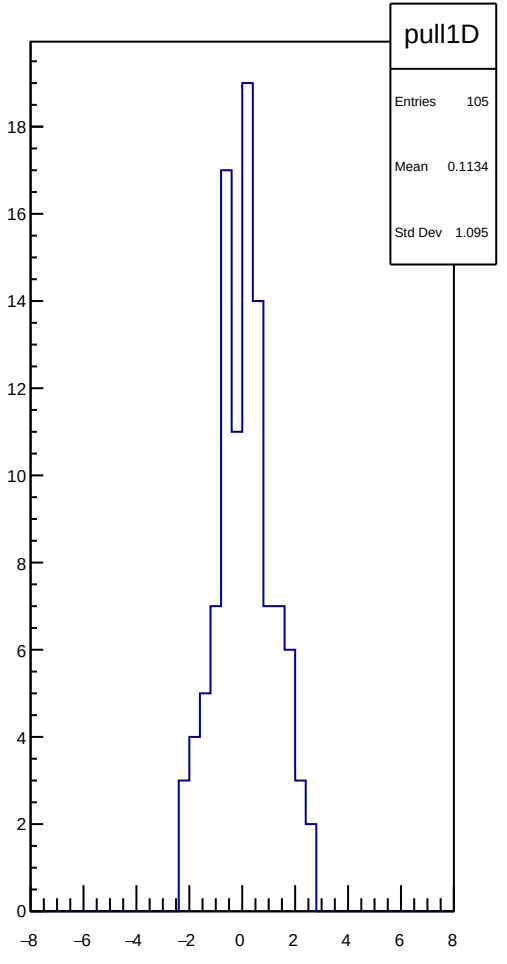

asym_sam1_eigen_dit_correction_rms vs run
χ² / ndf 2.99e+04 / 104
p0 357.4 ± 0.2517
480
460
440
420
400
380
360
340
320
300

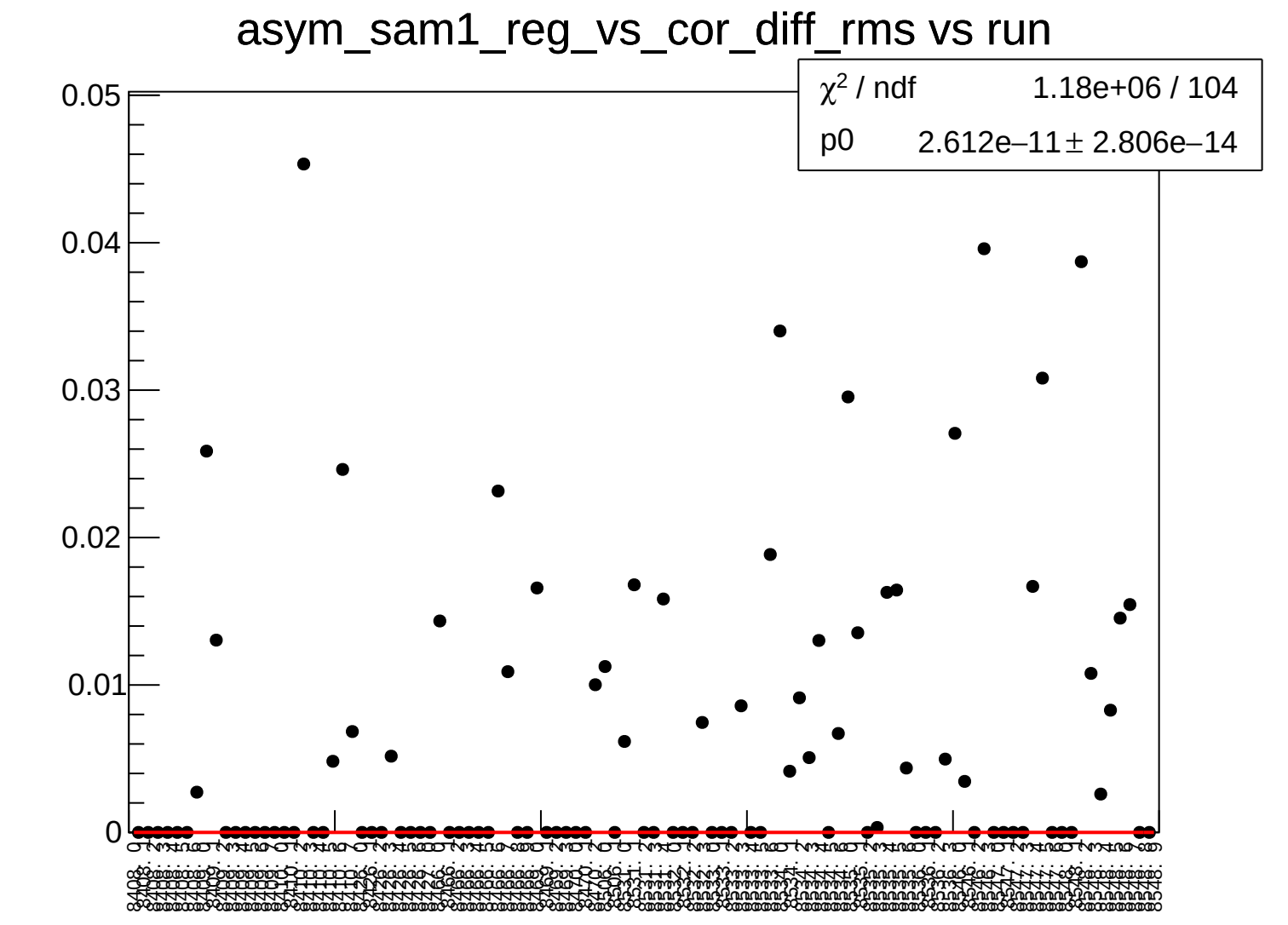

asym_sam1_mean vs run
χ² / ndf 105.6 / 104
p0 −140.3 ± 350.1
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 105
Mean 201.6
Std Dev 0
3
2
1
0
−1
−2

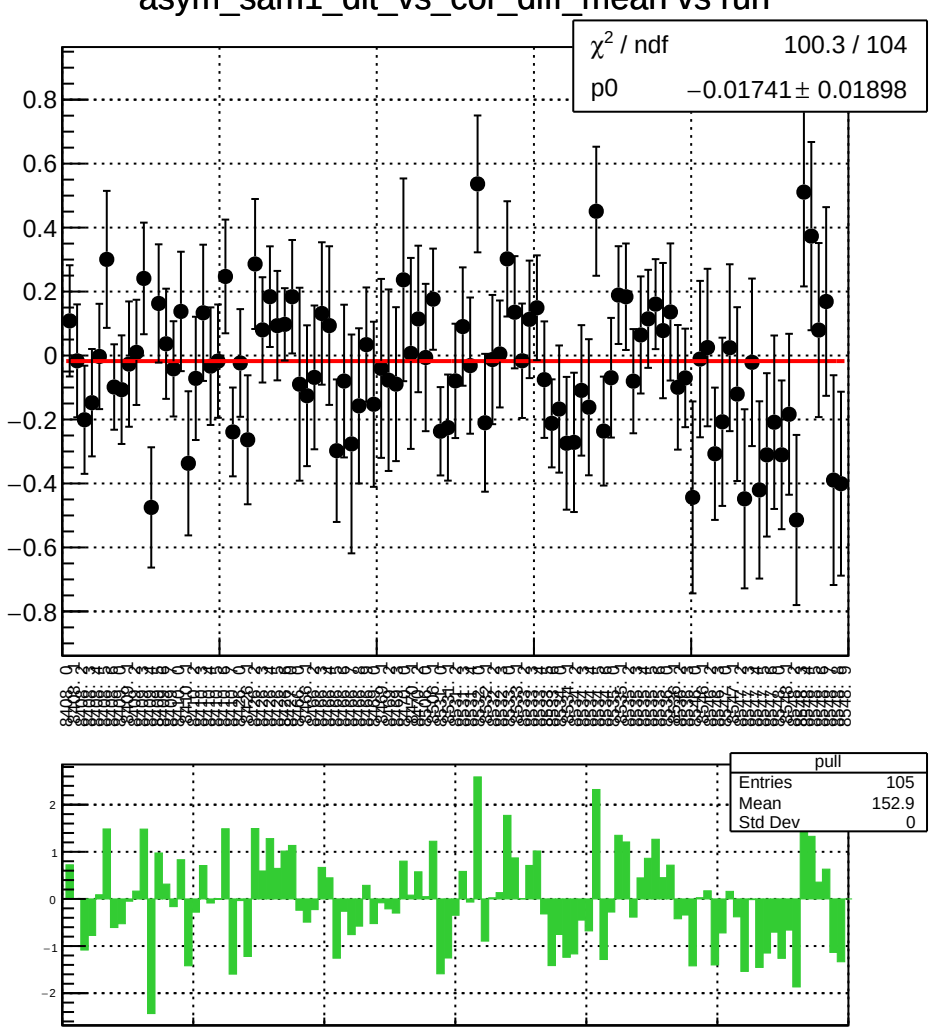

pull1D
Entries 105
Mean 0.008592
Std Dev 1.003
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

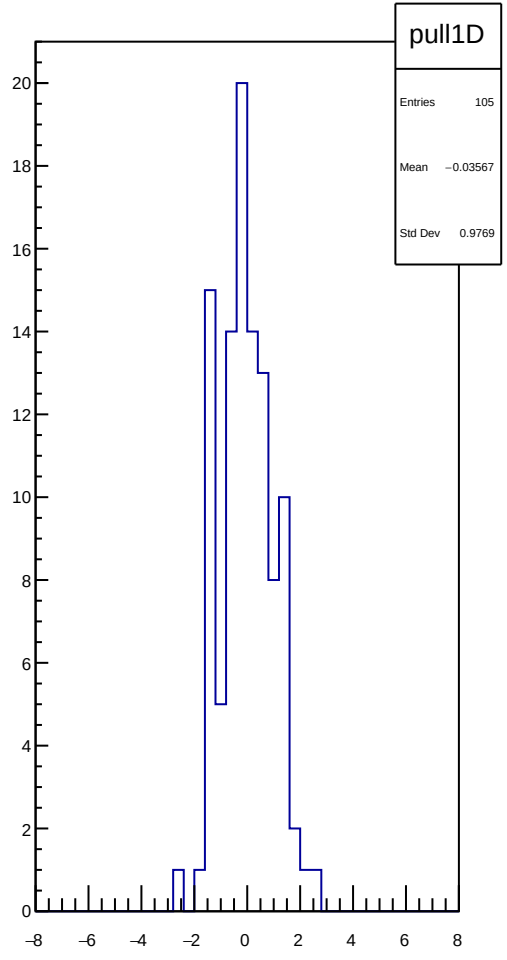

asym_sam1_rms vs run
χ^2 / ndf 2.833e+04 / 104
p0 351.7 ± 0.2476
480
460
440
420
400
380
360
340
320
300
280

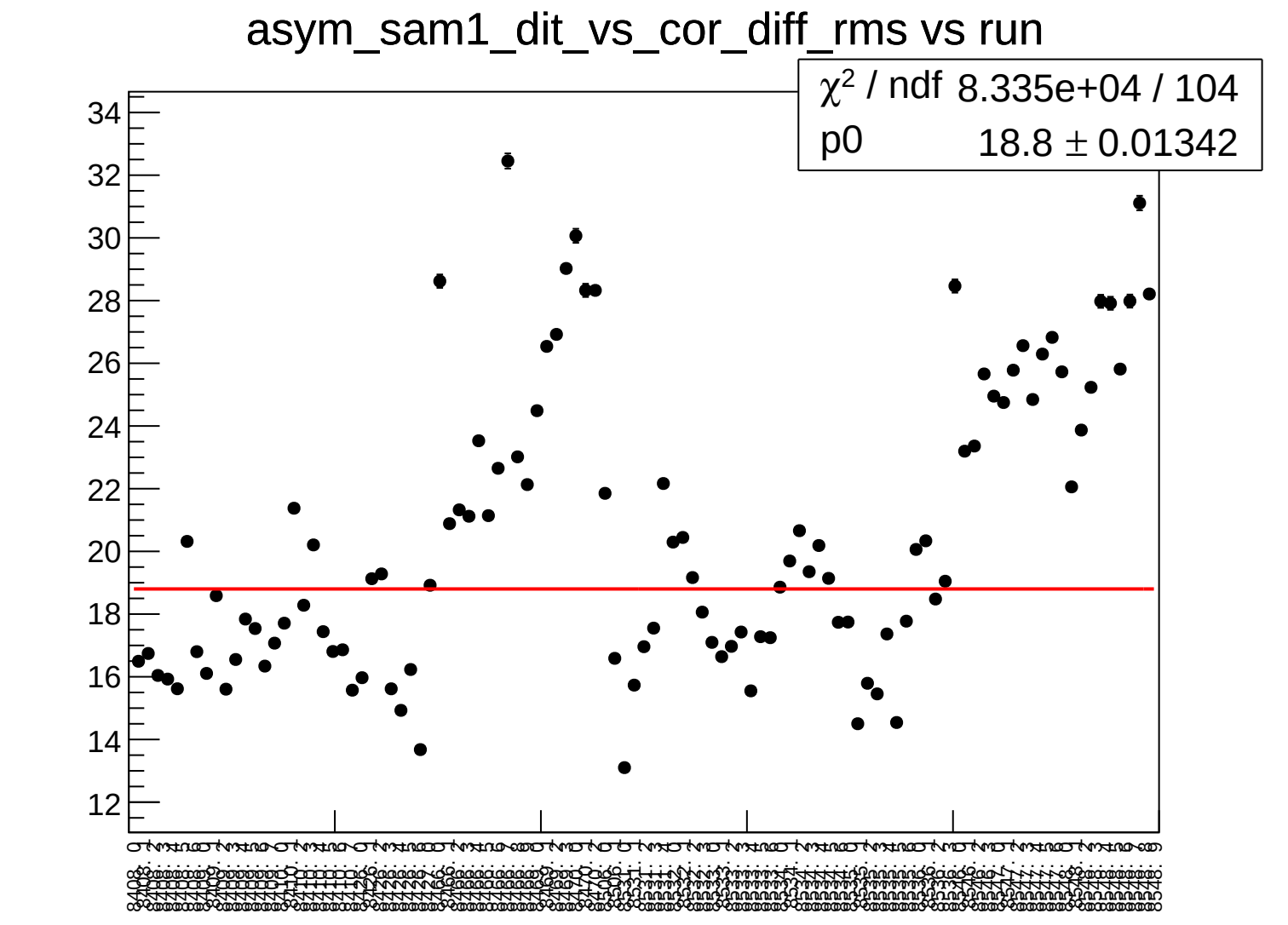

asym_sam1_reg_vs_cor_diff_mean vs run
χ² / ndf 127.2 / 104
p0 −3.628e−14 ± 3.968e−14
0.0015
0.001
0.0005
0
−0.0005
pull
Entries 105
Mean 73.88
Std Dev 5.327
2
1
0
−1
−2

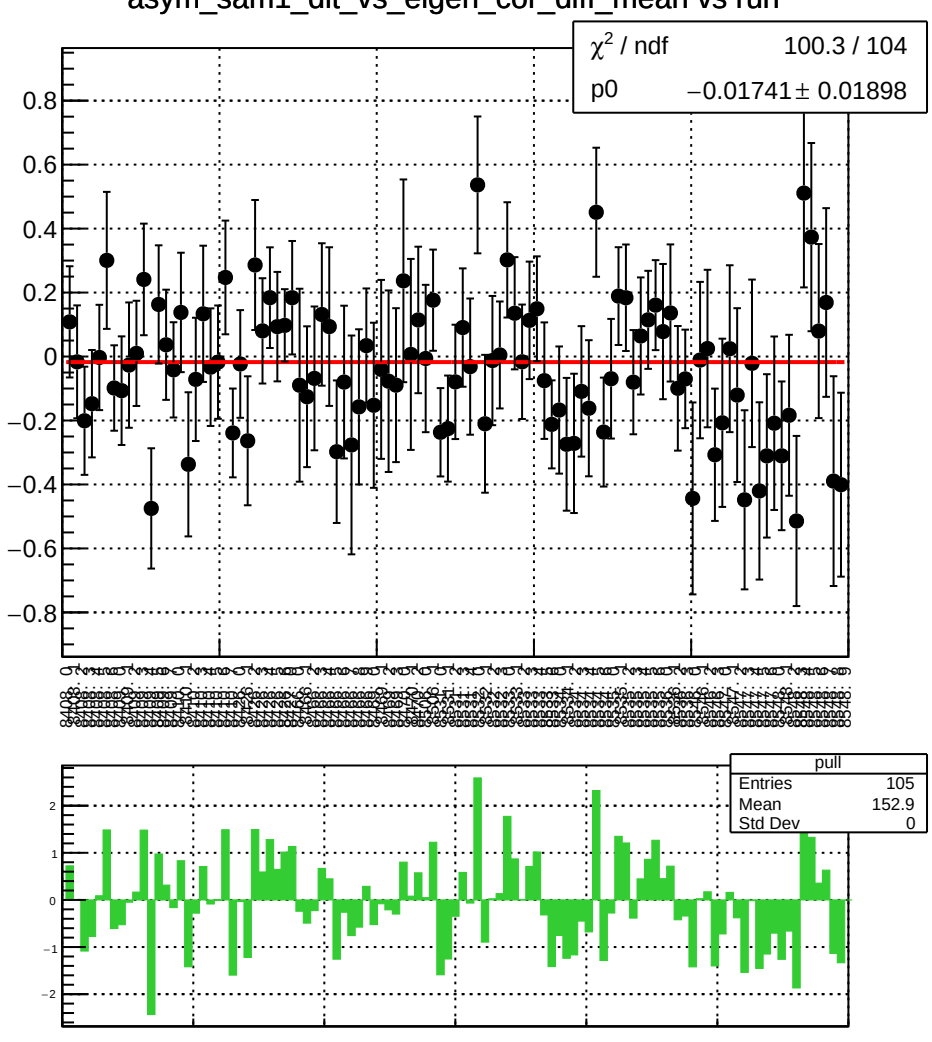

pull1D
Entries 105
Mean 0.1134
Std Dev 1.095
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

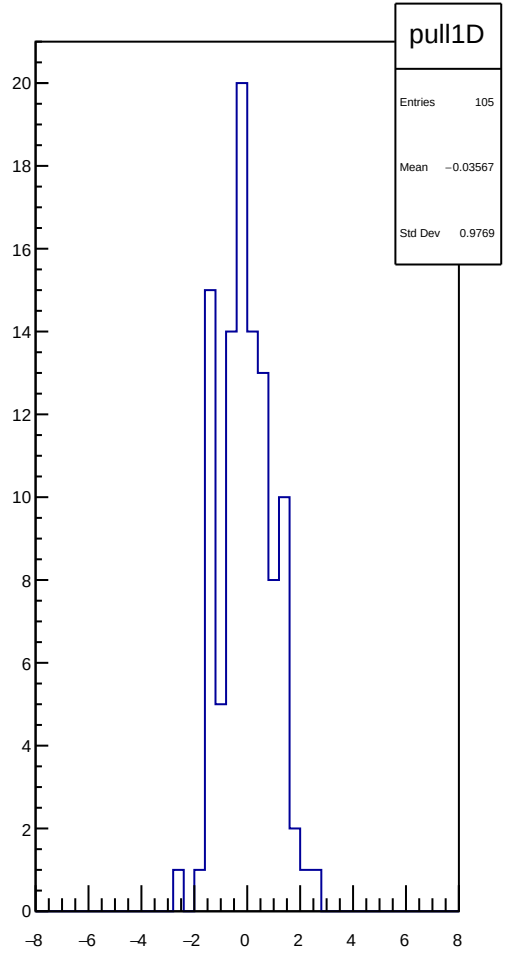

asym_sam1_reg_vs_cor_diff_rms vs run
χ² / ndf 1.18e+06 / 104
p0 2.612e−11 ± 2.806e−14
0.05
0.04
0.03
0.02
0.01
0

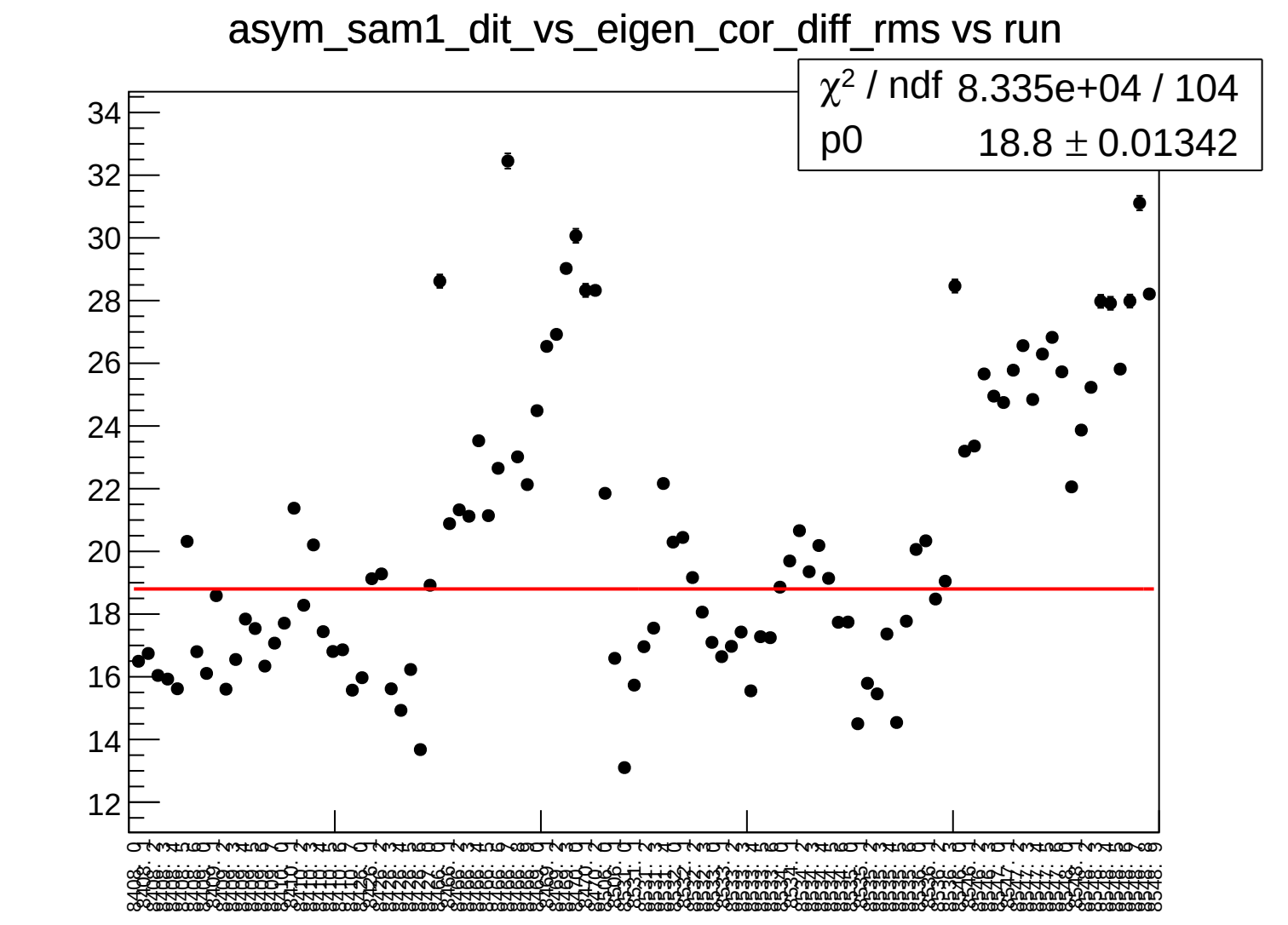

asym_sam1_dit_vs_cor_diff_mean vs run
χ² / ndf 100.3 / 104
p0 −0.01741 ± 0.01898
pull
Entries 105
Mean 152.9
Std Dev 0

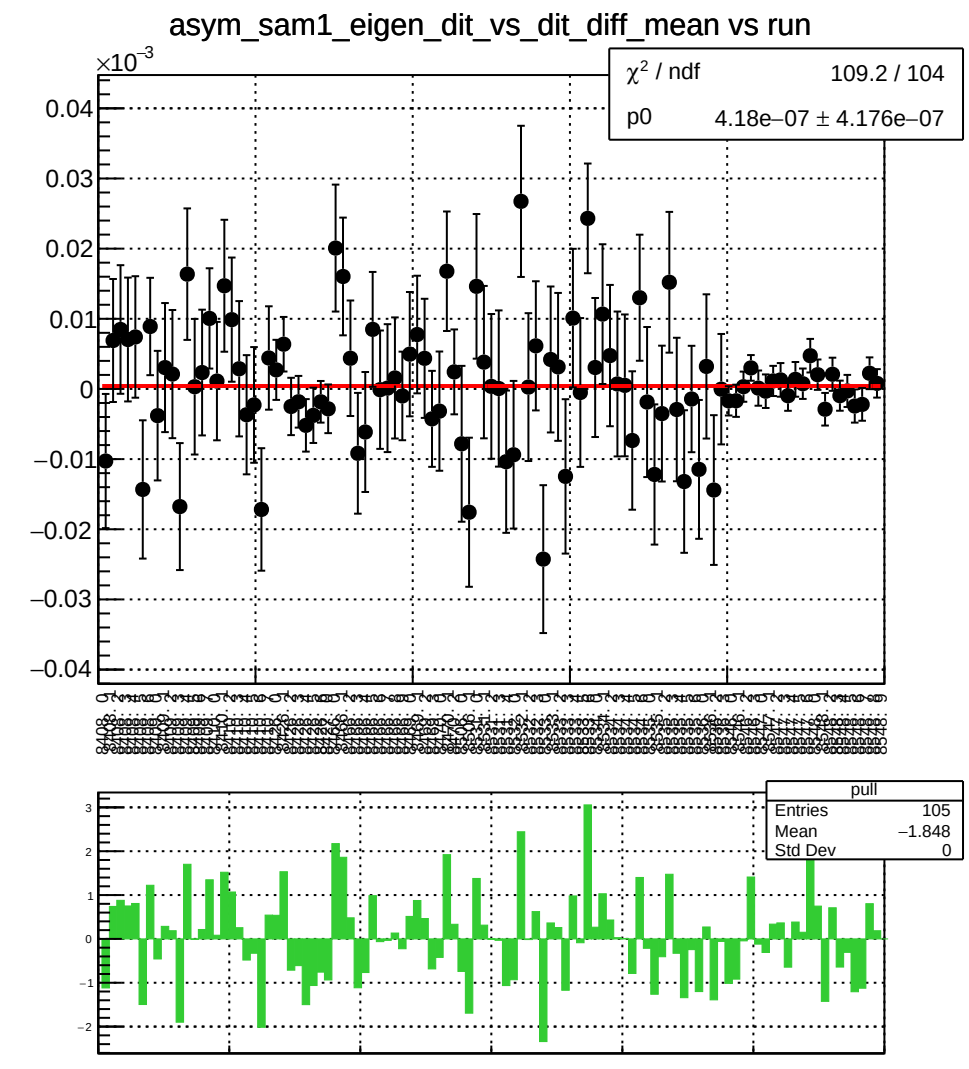

pull1D
Entries 105
Mean −0.03567
Std Dev 0.9769

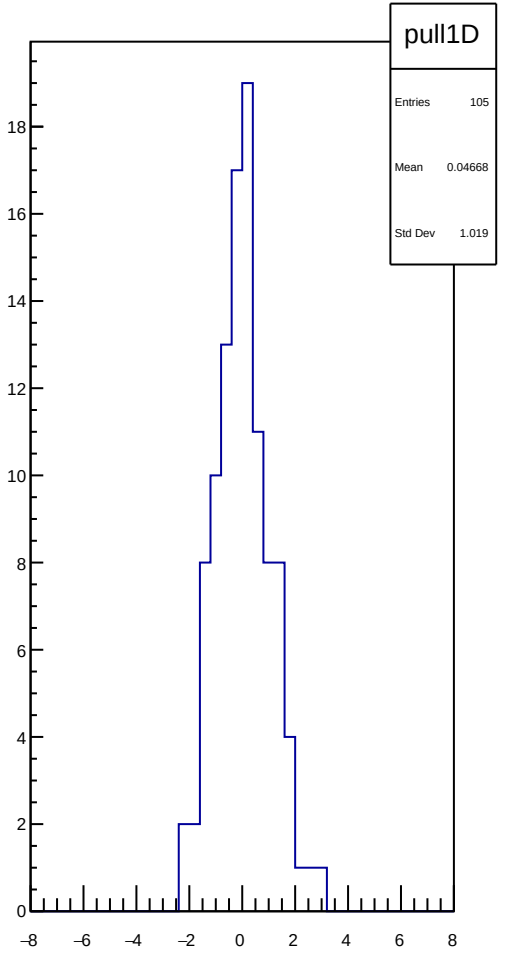

asym_sam1_dit_vs_cor_diff_rms vs run
χ² / ndf 8.335e+04 / 104
p0 18.8 ± 0.01342
34
32
30
28
26
24
22
20
18
16
14
12

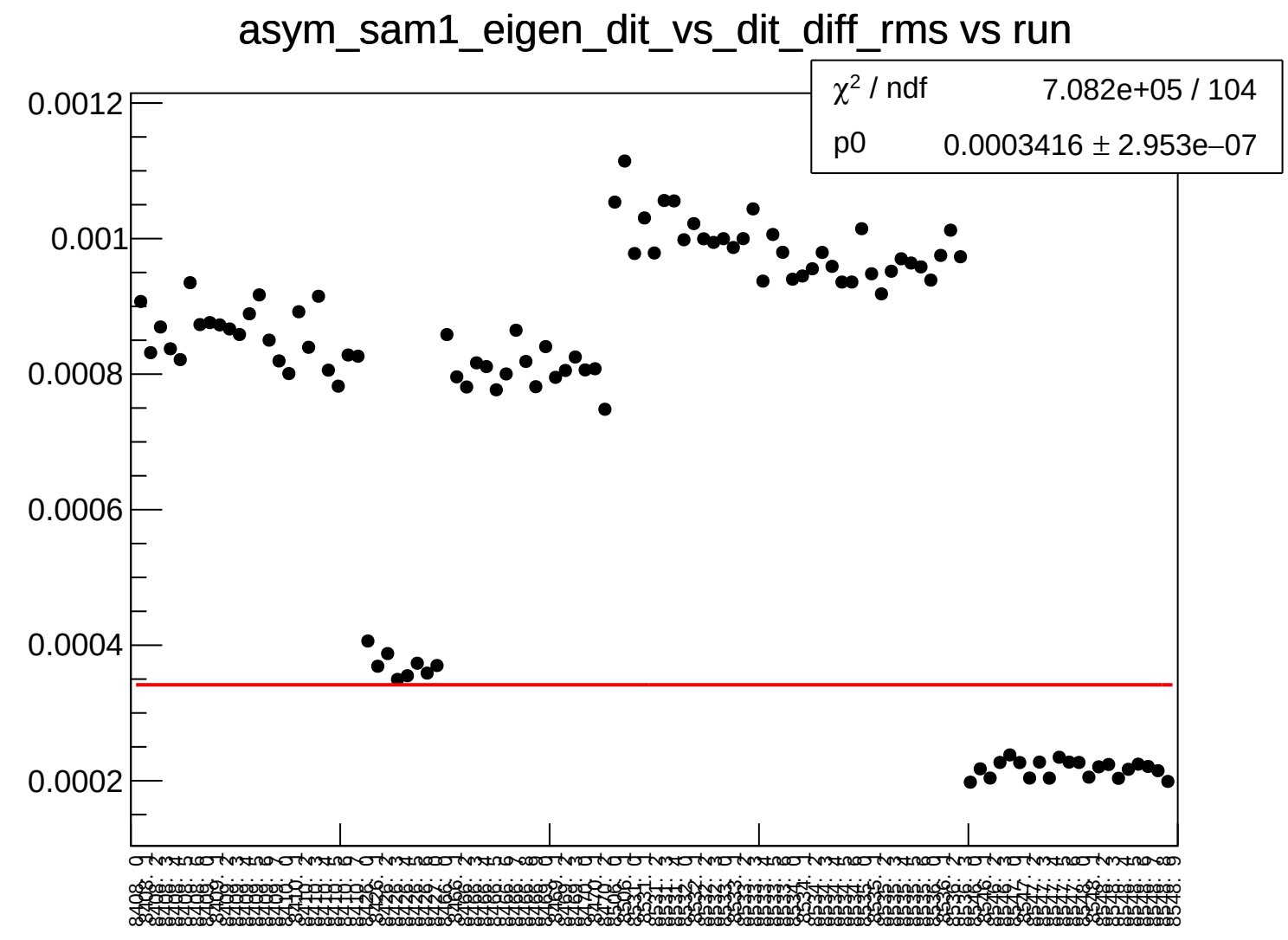

asym_sam1_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.3 / 104
p0 −0.01741 ± 0.01898
pull
Entries 105
Mean 152.9
Std Dev 0

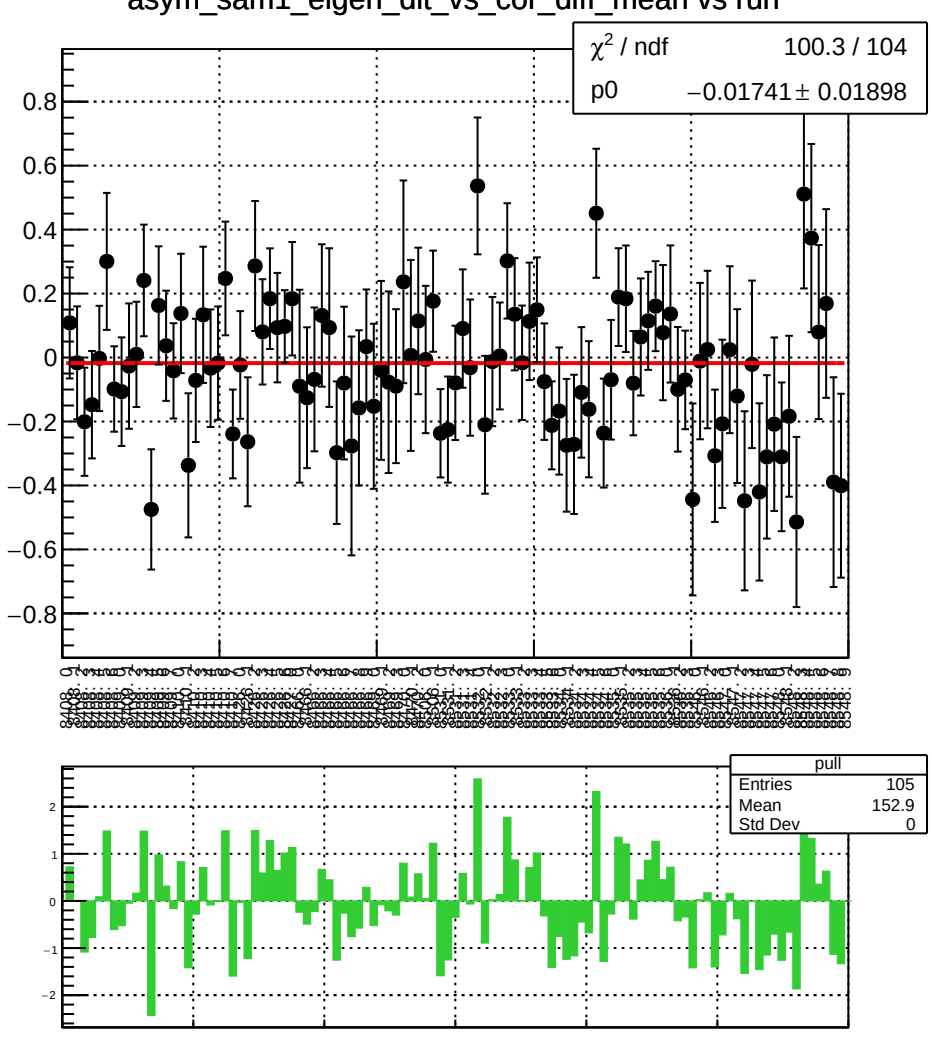

pull1D
Entries 105
Mean −0.03567
Std Dev 0.9769

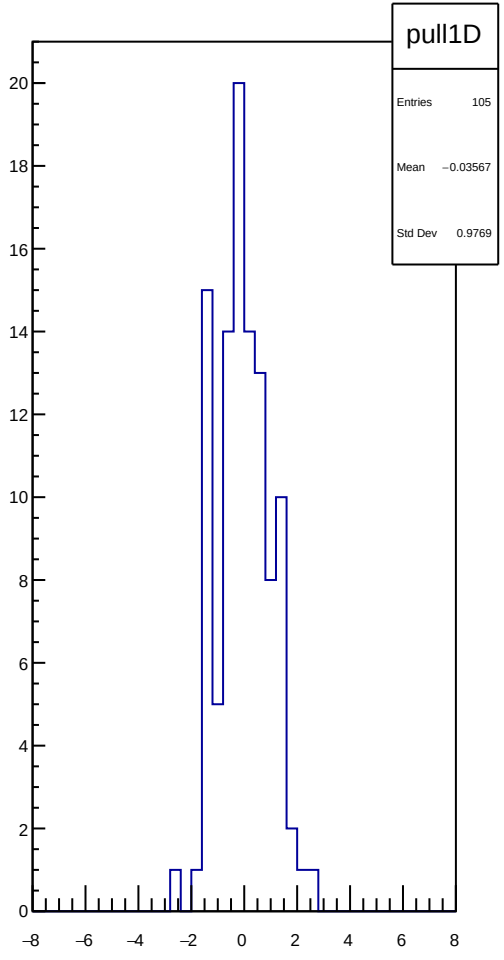

asym_sam1_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.335e+04 / 104
p0 18.8 ± 0.01342
34
32
30
28
26
24
22
20
18
16
14
12

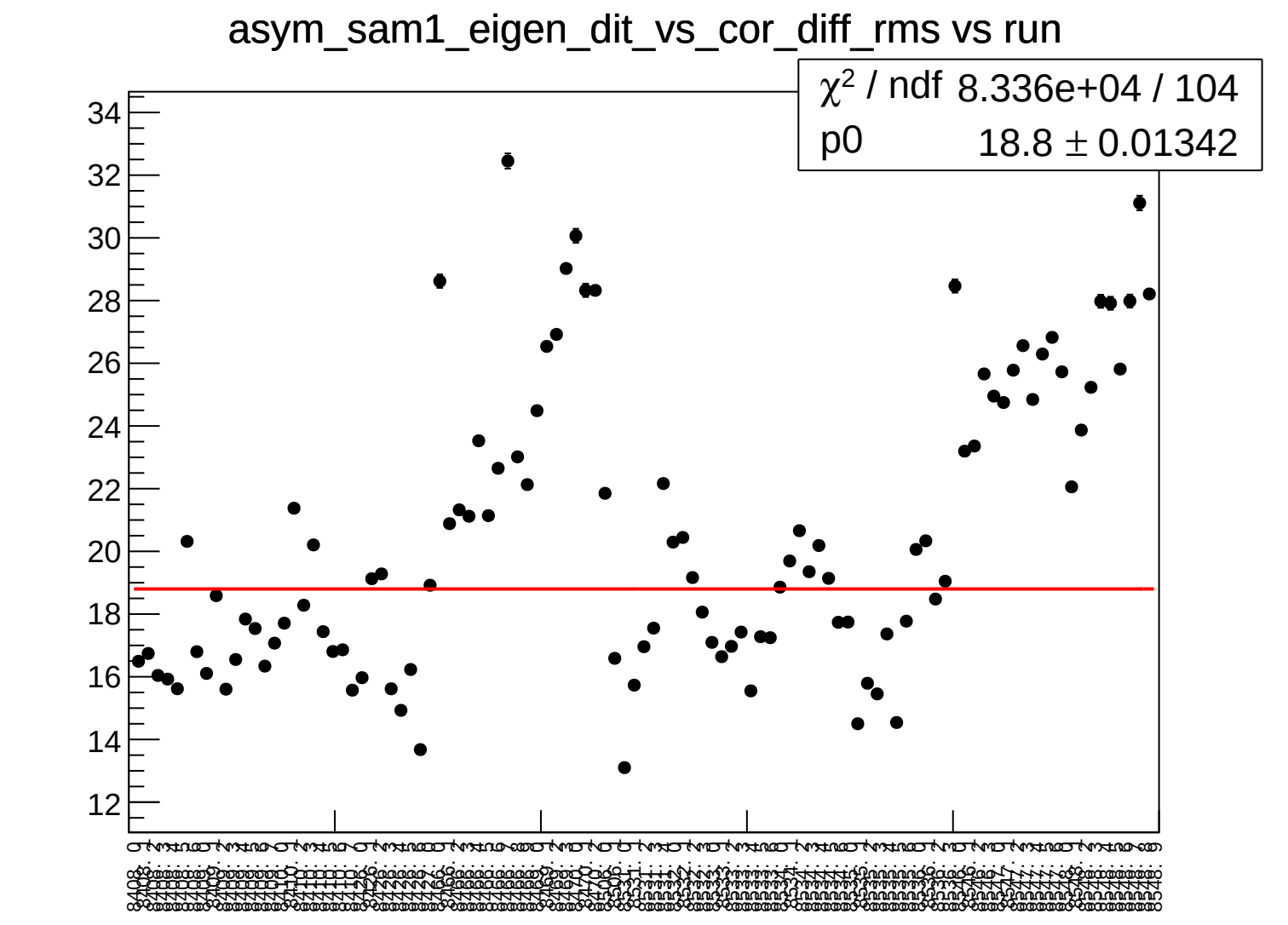

asym_sam1_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 109.2 / 104
p0 4.18e−07 ± 4.176e−07
0.04
0.03
0.02
0.01
0
−0.01
−0.02
−0.03
−0.04
pull
Entries 105
Mean −1.848
Std Dev 0
3
2
1
0
−1
−2

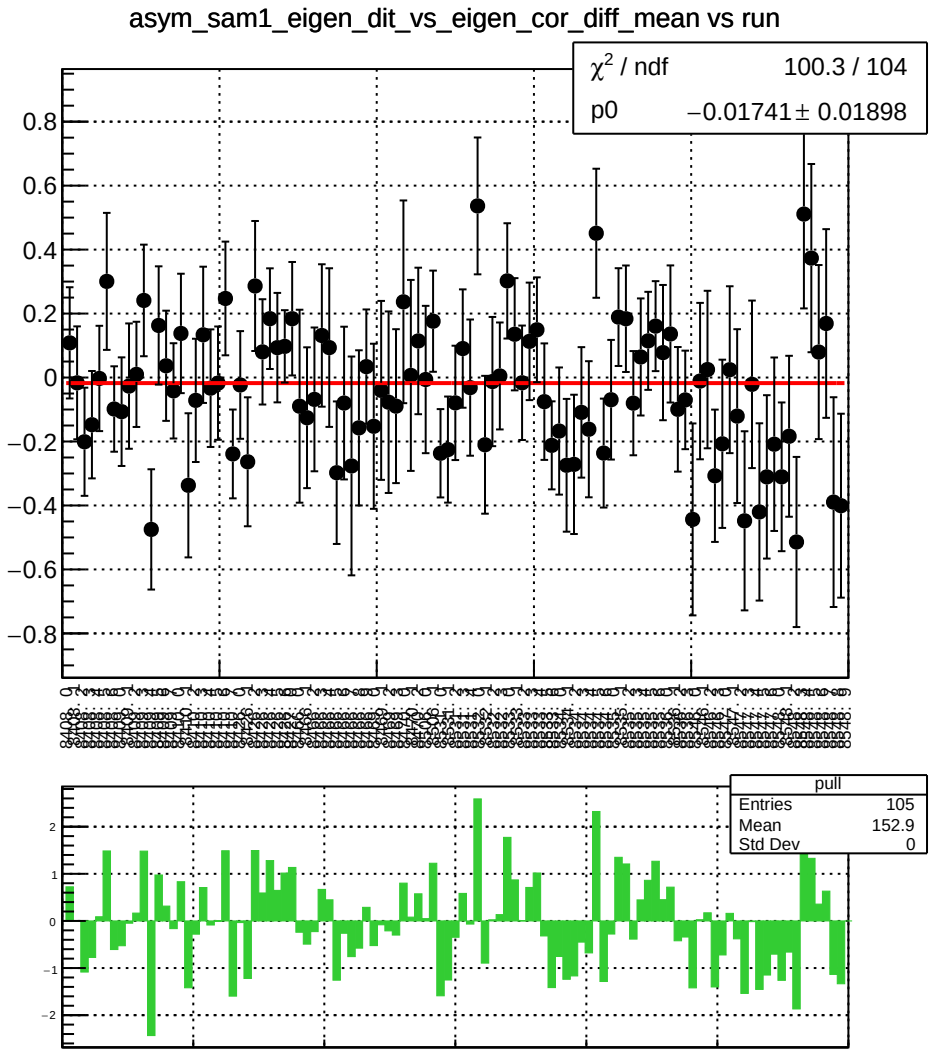

pull1D
Entries 105
Mean 0.04668
Std Dev 1.019
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

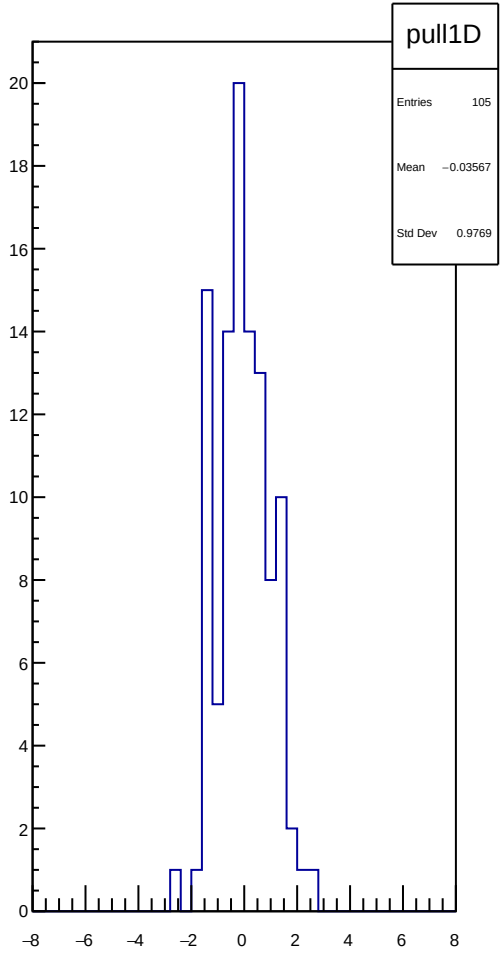

asym_sam1_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.082e+05 / 104
p0 0.0003416 ± 2.953e−07
0.0012
0.001
0.0008
0.0006
0.0004
0.0002

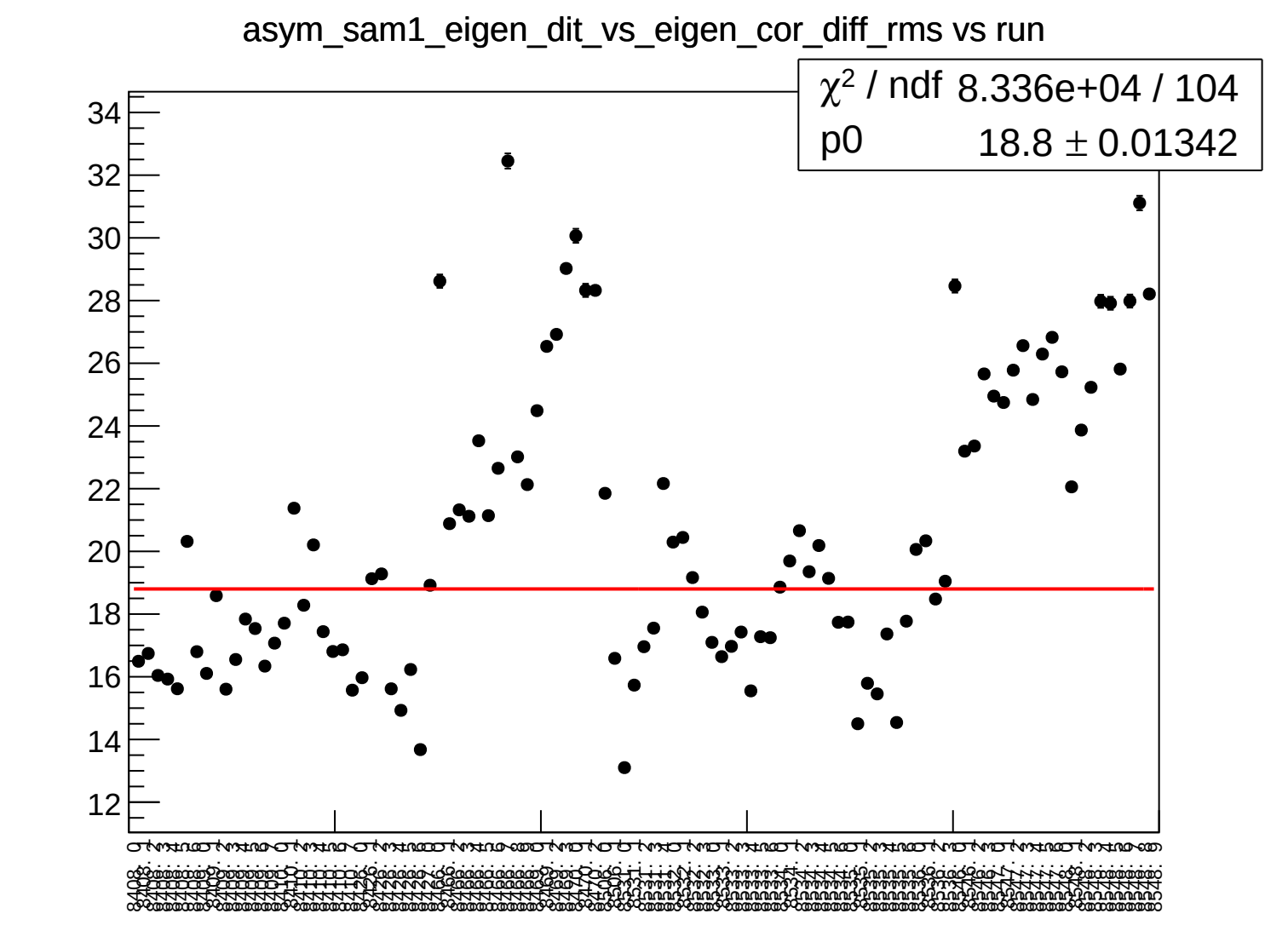

asym_sam1_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 100.3 / 104
p0 −0.01741 ± 0.01898
pull
Entries 105
Mean 152.9
Std Dev 0

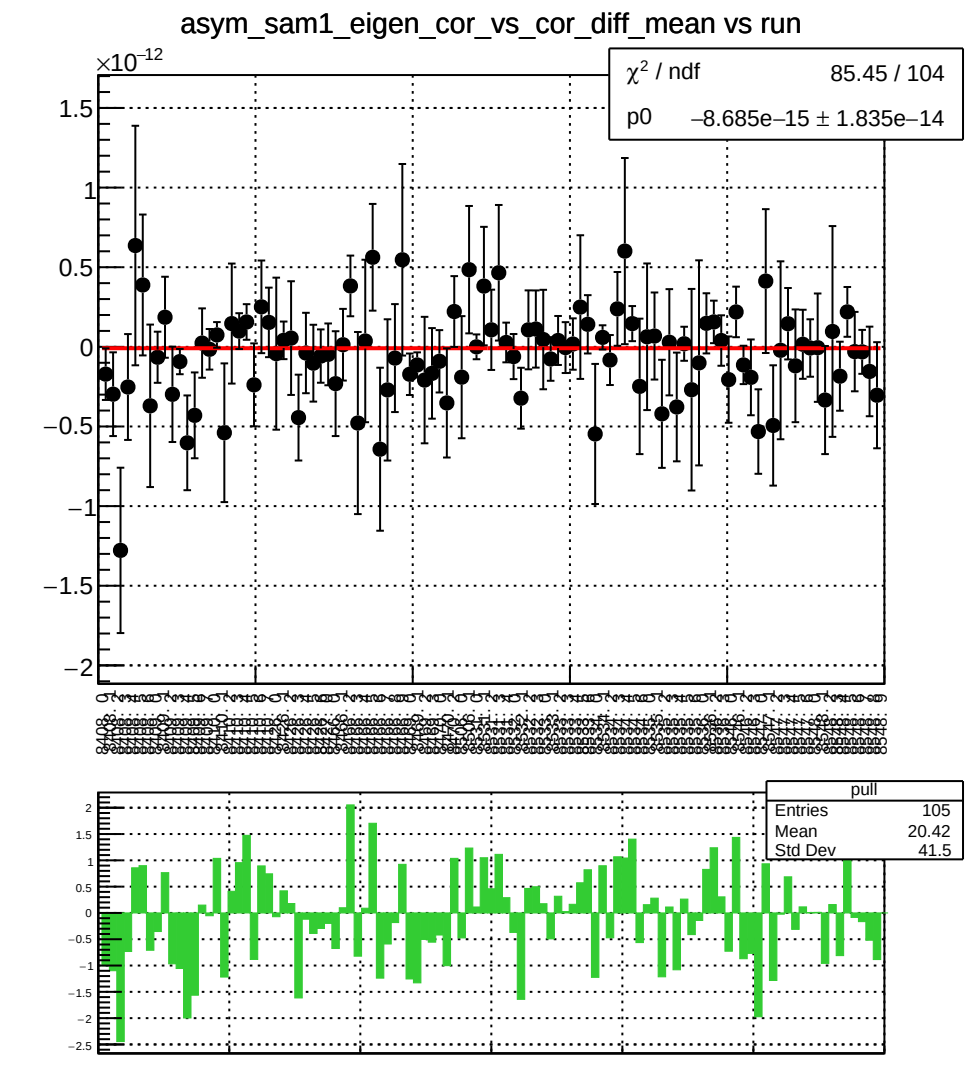

pull1D
Entries 105
Mean −0.03567
Std Dev 0.9769

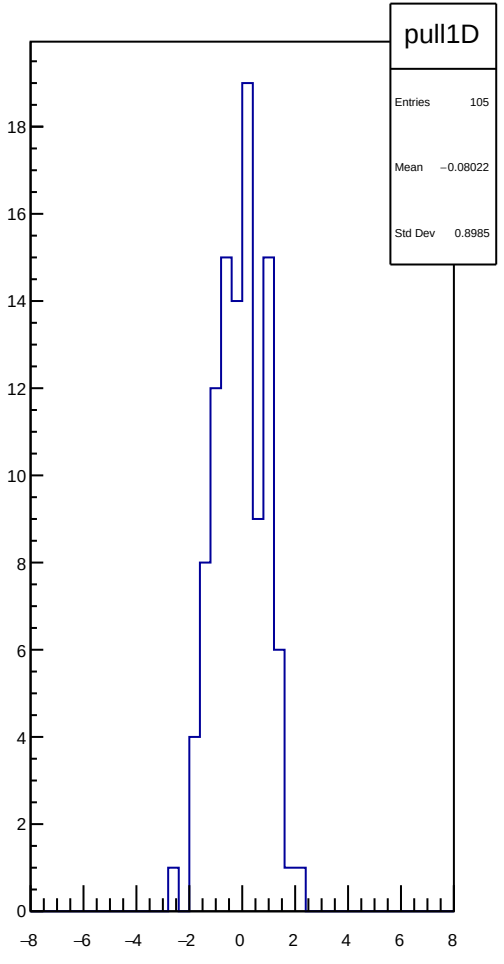

asym_sam1_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.336e+04 / 104
p0 18.8 ± 0.01342
34
32
30
28
26
24
22
20
18
16
14
12

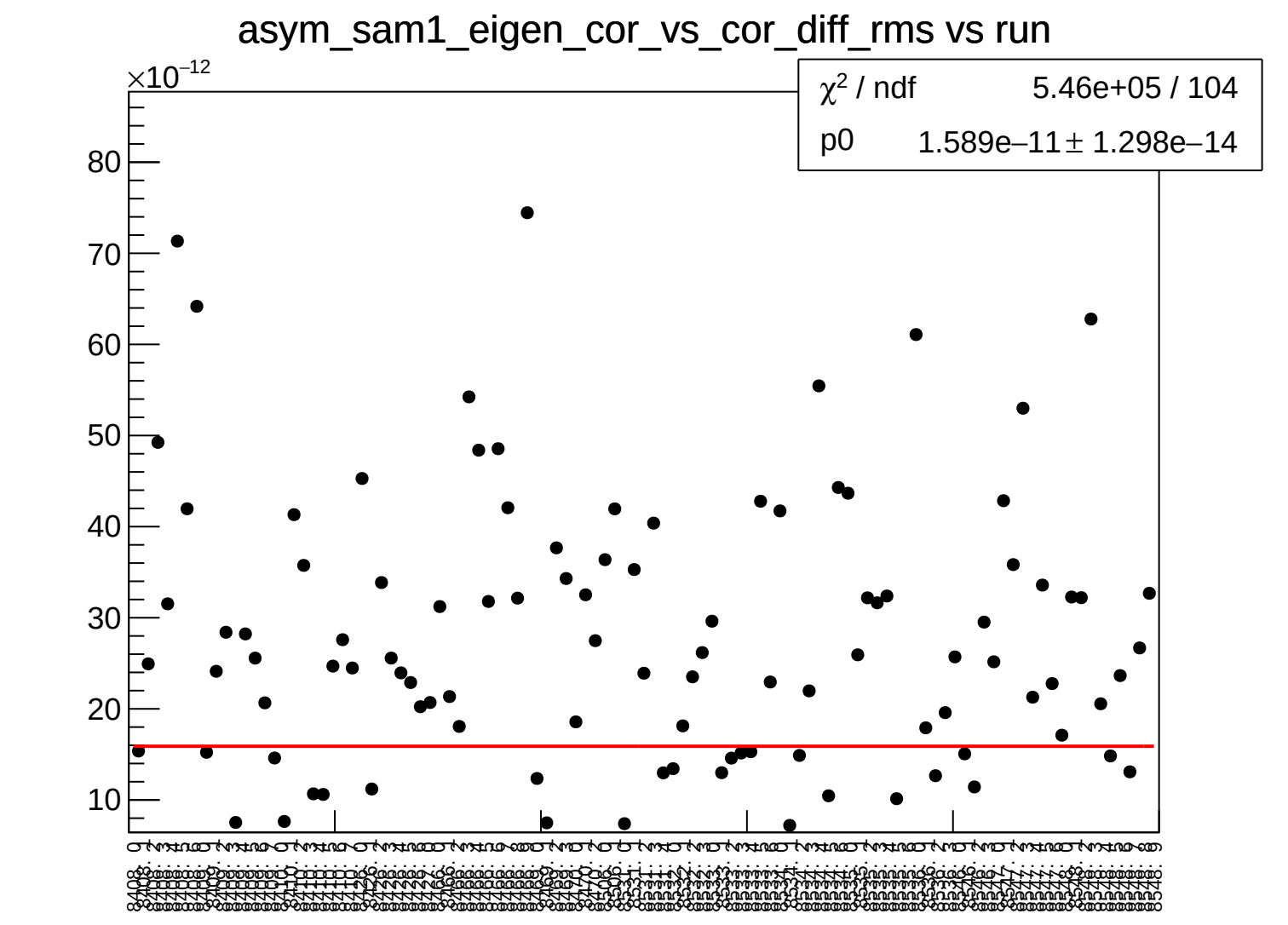

asym_sam1_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 100.3 / 104
p0 −0.01741 ± 0.01898
pull
Entries 105
Mean 152.9
Std Dev 0

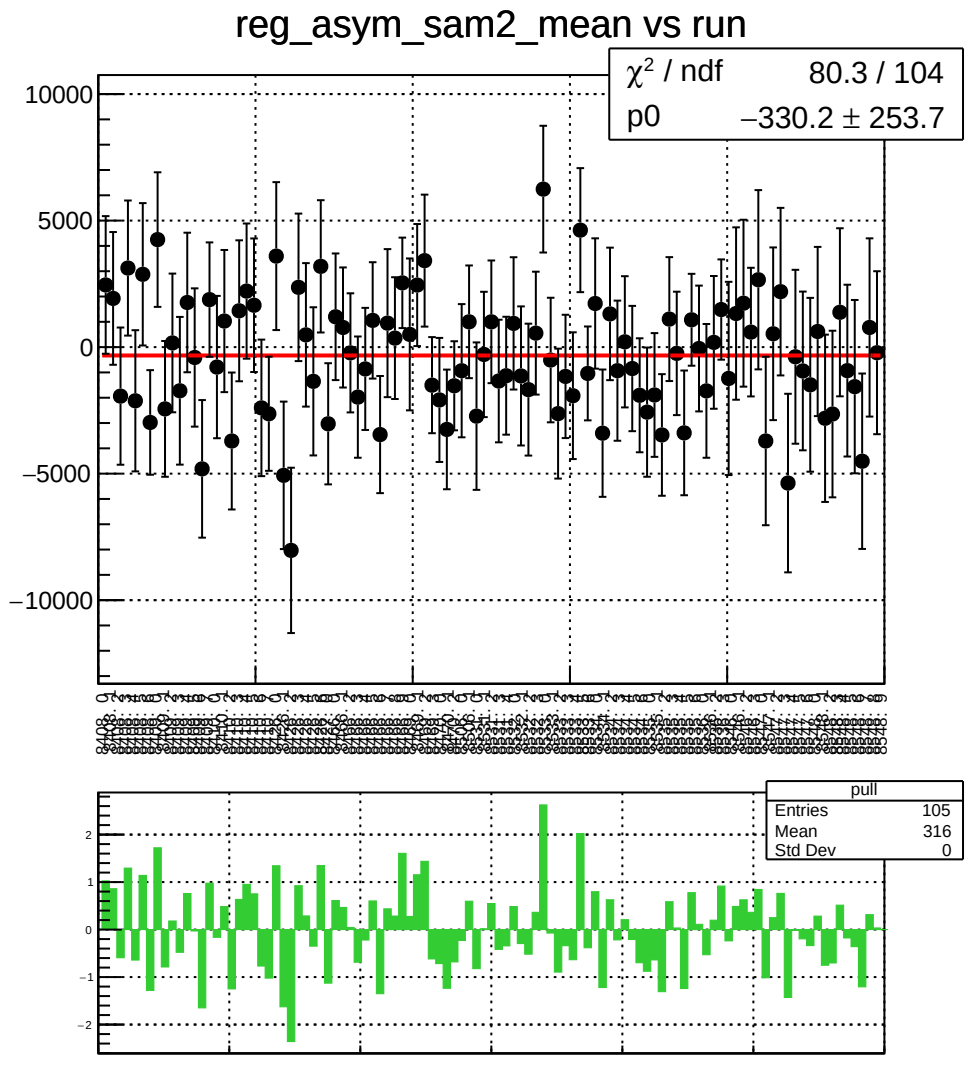

pull1D
Entries 105
Mean −0.03567
Std Dev 0.9769

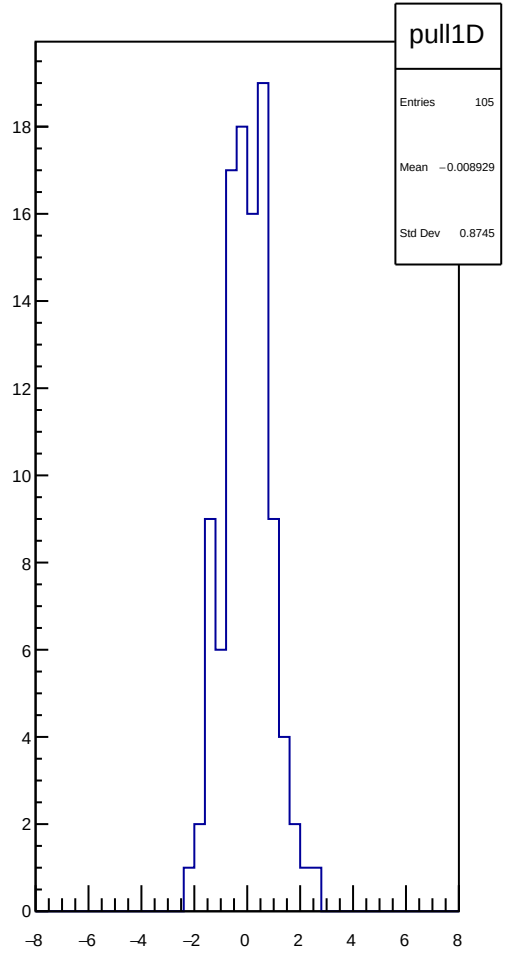

asym_sam1_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.336e+04 / 104
p0 18.8 ± 0.01342
34
32
30
28
26
24
22
20
18
16
14
12

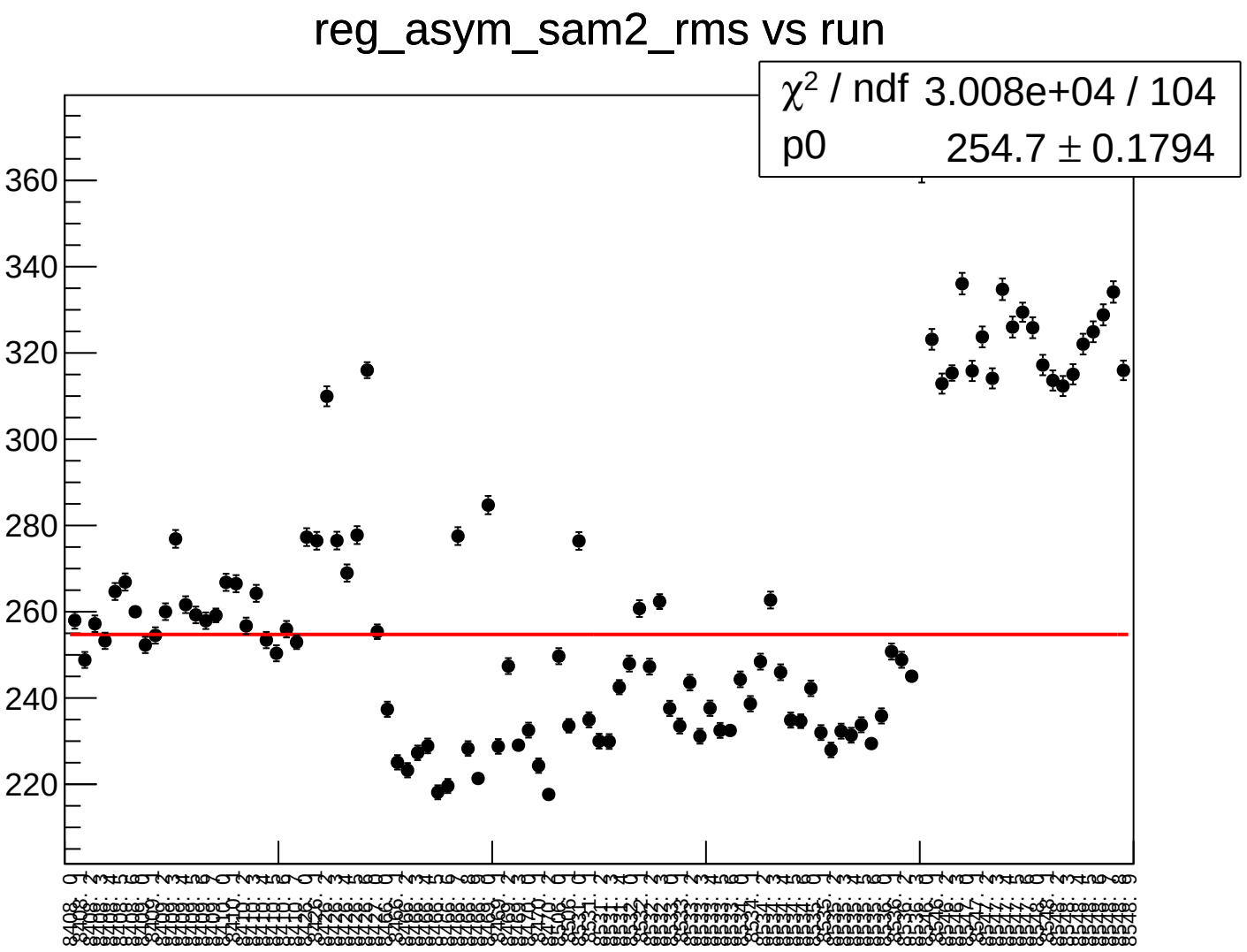

asym_sam1_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 85.45 / 104
p0 −8.685e−15 ± 1.835e−14
pull
Entries 105
Mean 20.42
Std Dev 41.5

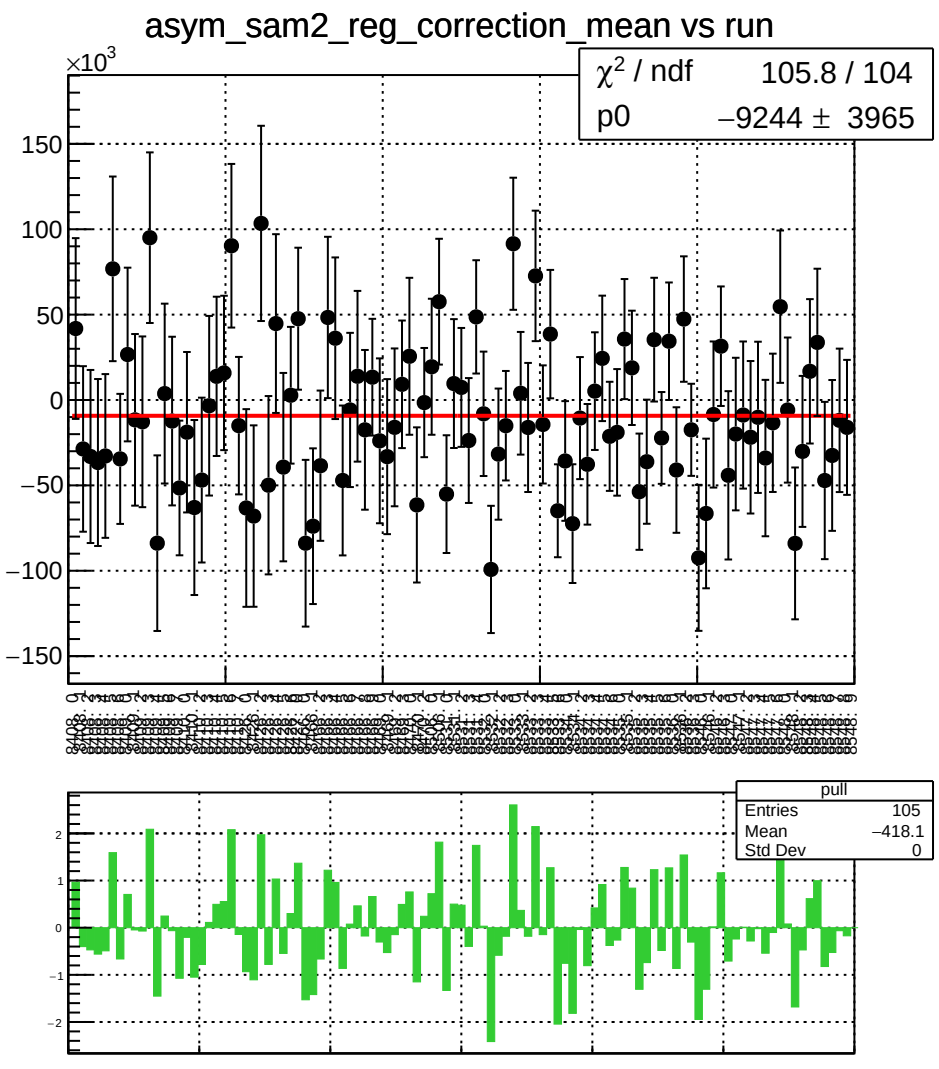

pull1D
Entries 105
Mean −0.08022
Std Dev 0.8985

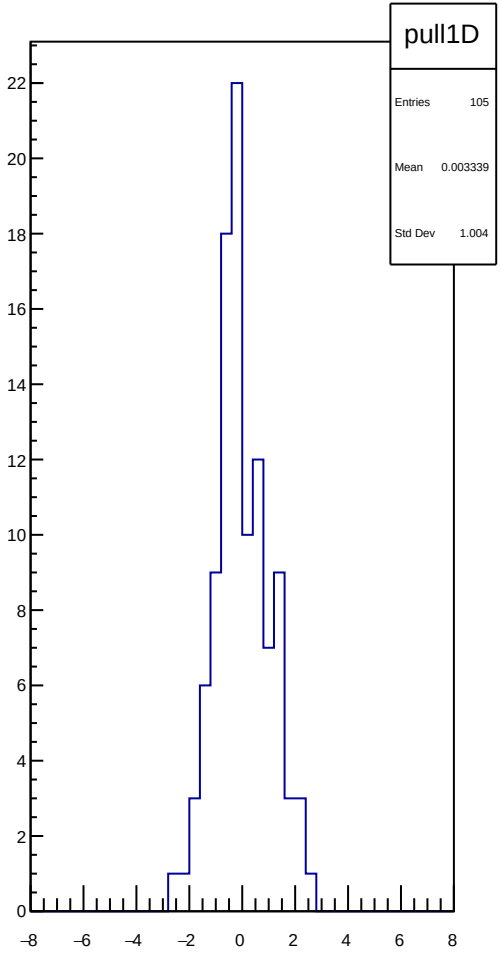

asym_sam1_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.46e+05 / 104
p0 1.589e−11 ± 1.298e−14
80
70
60
50
40
30
20
10

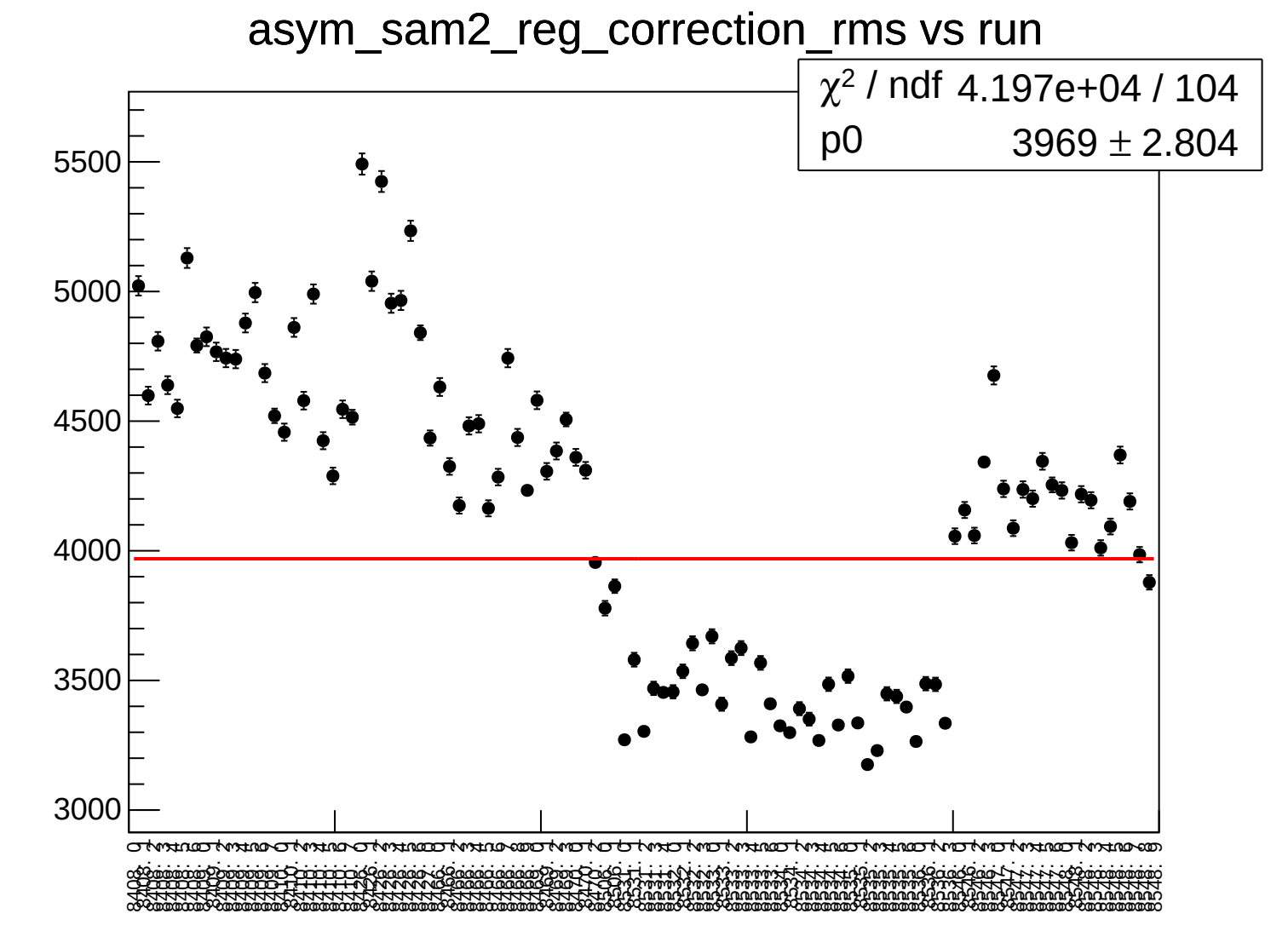

reg_asym_sam2_mean vs run
χ² / ndf 80.3 / 104
p0 −330.2 ± 253.7
10000
5000
0
−5000
−10000
pull
Entries 105
Mean 316
Std Dev 0
2
1
0
−1
−2

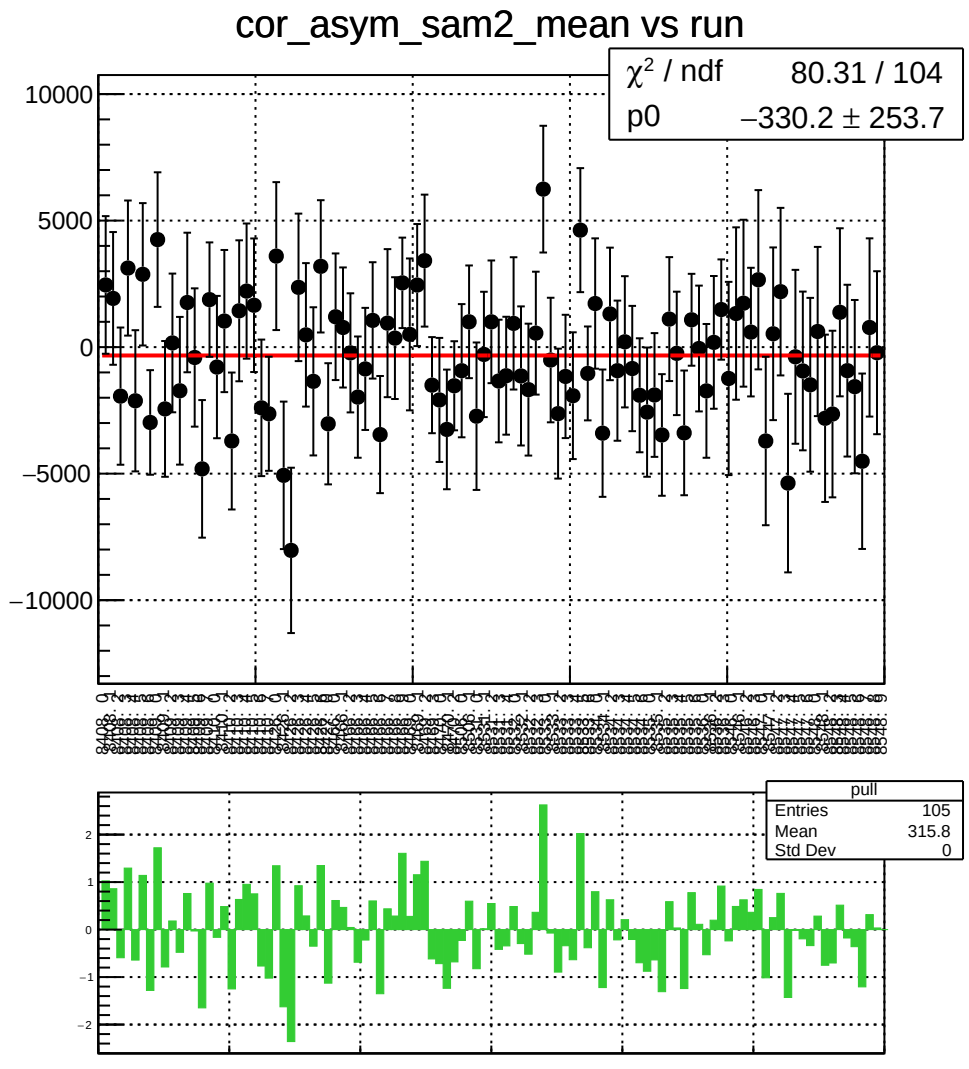

pull1D
Entries 105
Mean −0.008929
Std Dev 0.8745
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

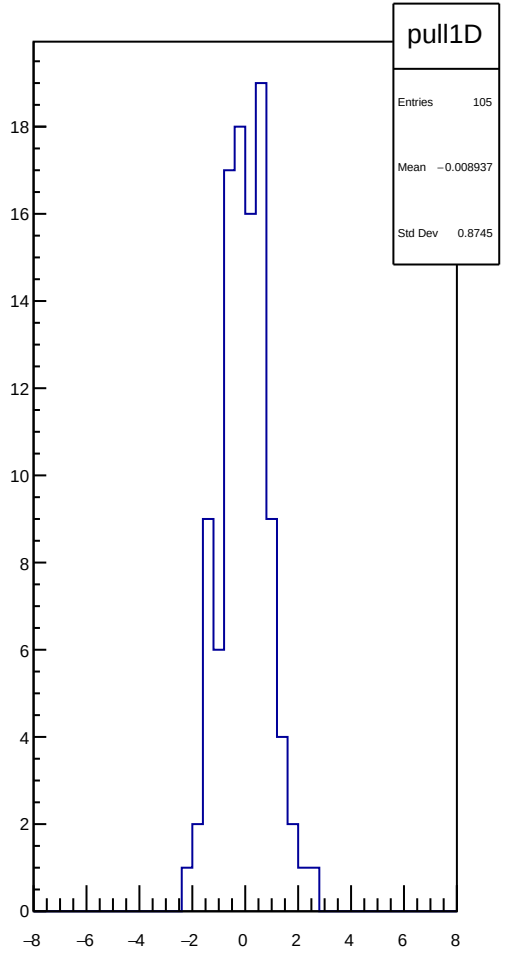

reg_asym_sam2_rms vs run
χ² / ndf 3.008e+04 / 104
p0 254.7 ± 0.1794
360
340
320
300
280
260
240
220

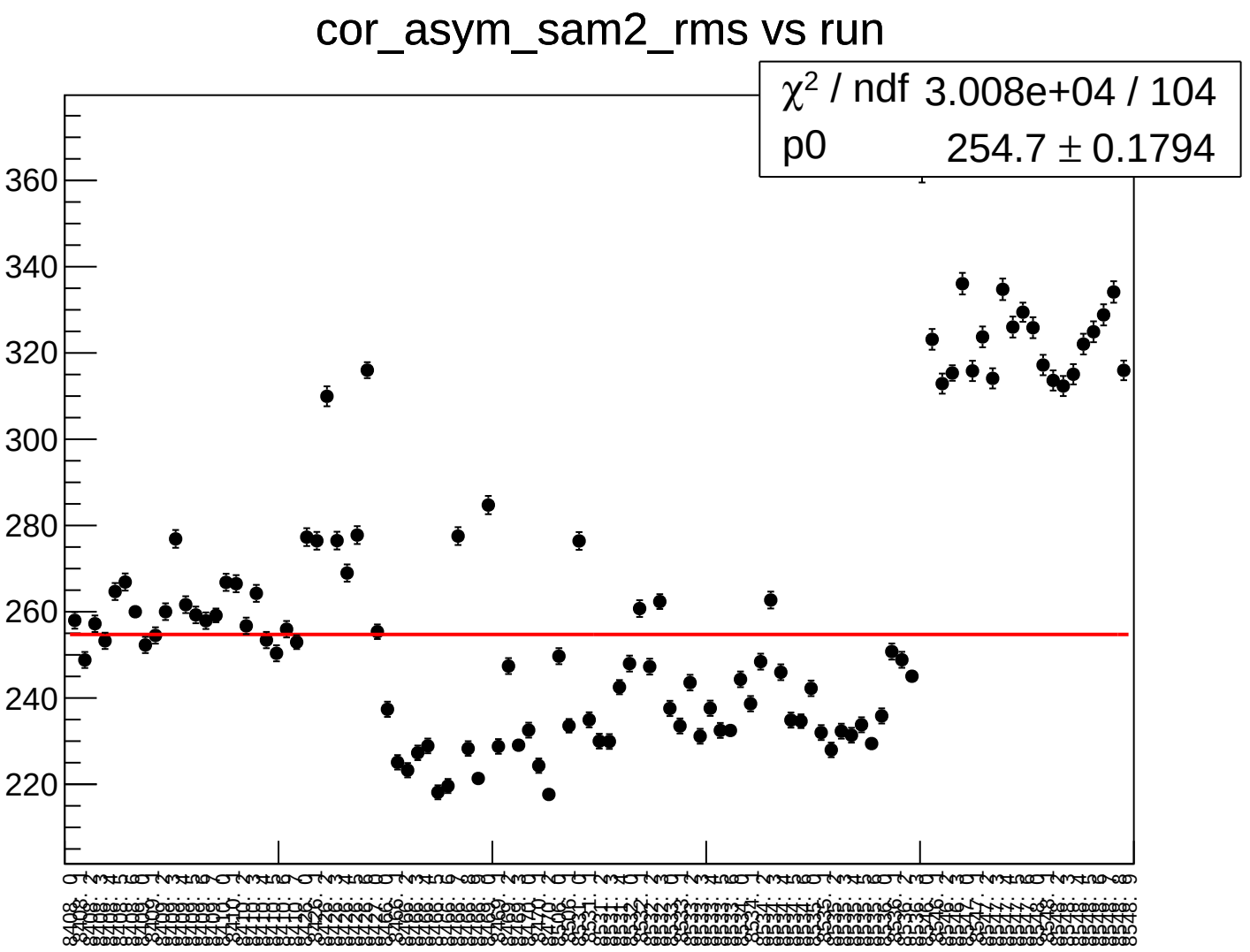

asym_sam2_reg_correction_mean vs run
×10^3
χ^2 / ndf 105.8 / 104
p0 −9244 ± 3965
150
100
50
0
−50
−100
−150
pull
Entries 105
Mean −418.1
Std Dev 0
2
1
0
−1
−2

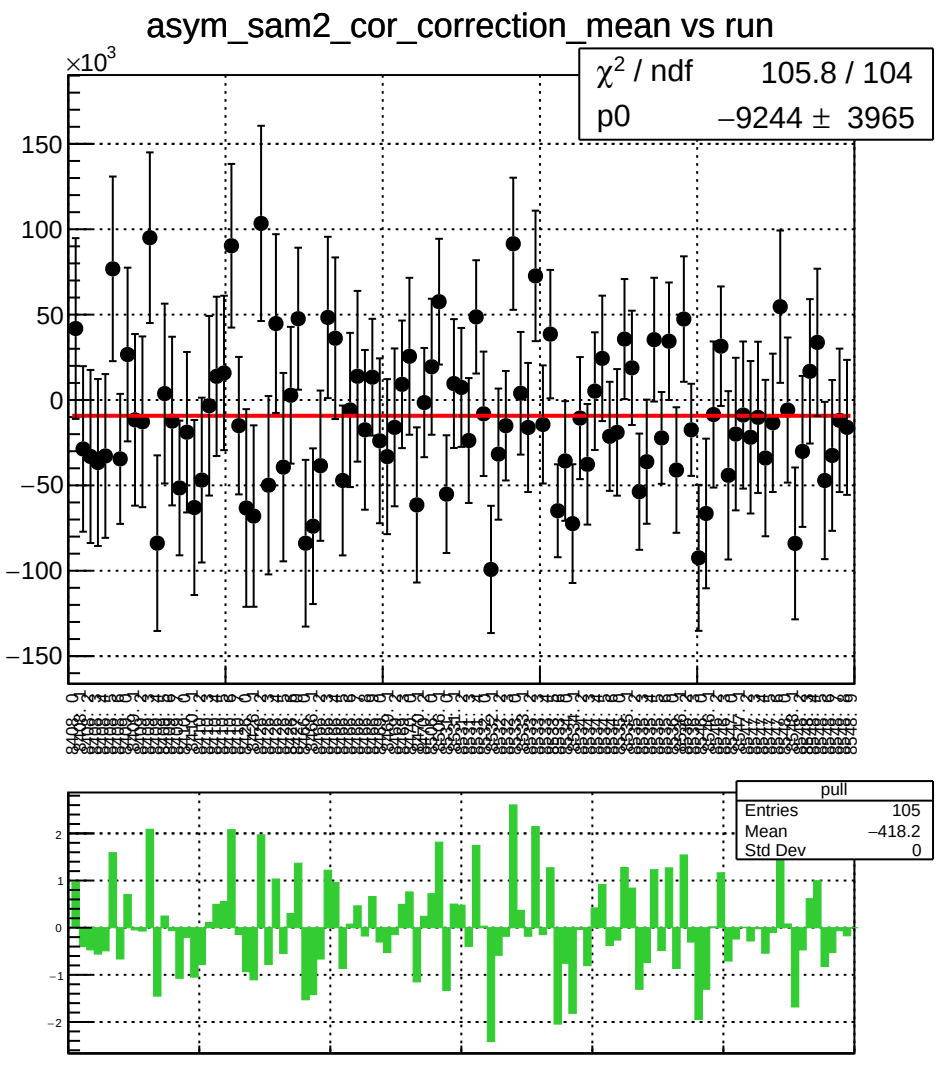

pull1D
Entries 105
Mean 0.003339
Std Dev 1.004
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

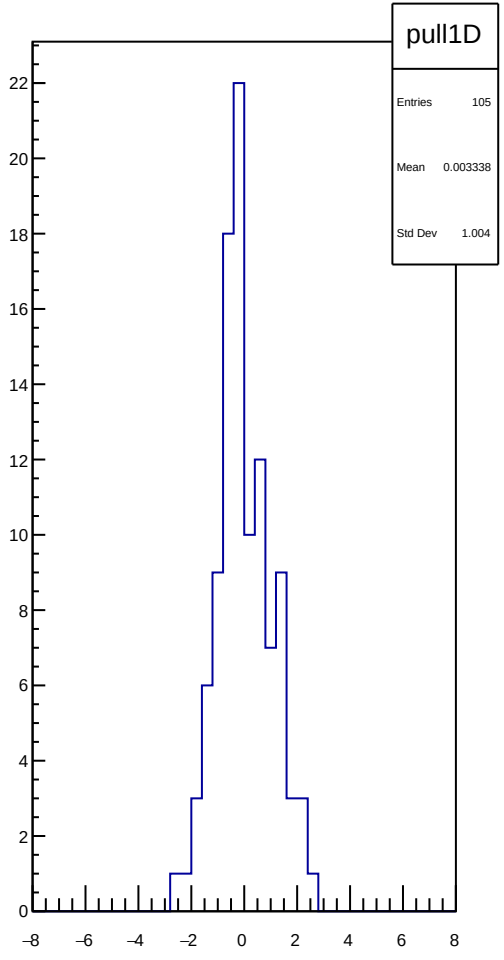

asym_sam2_reg_correction_rms vs run
χ² / ndf 4.197e+04 / 104
p0 3969 ± 2.804
5500
5000
4500
4000
3500
3000

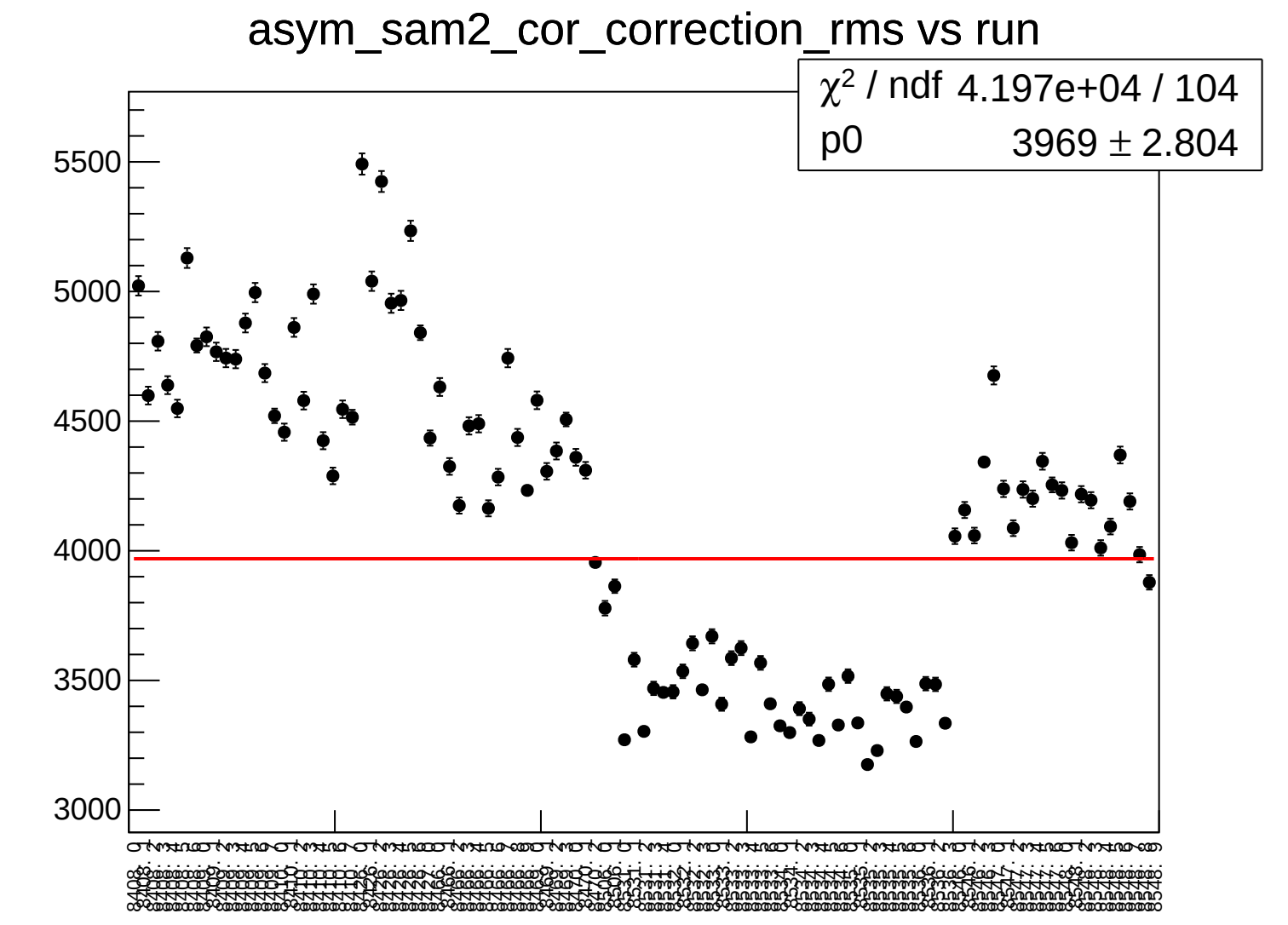

cor_asym_sam2_mean vs run
χ² / ndf 80.31 / 104
p0 −330.2 ± 253.7
10000
5000
0
−5000
−10000
pull
Entries 105
Mean 315.8
Std Dev 0
2
1
0
−1
−2

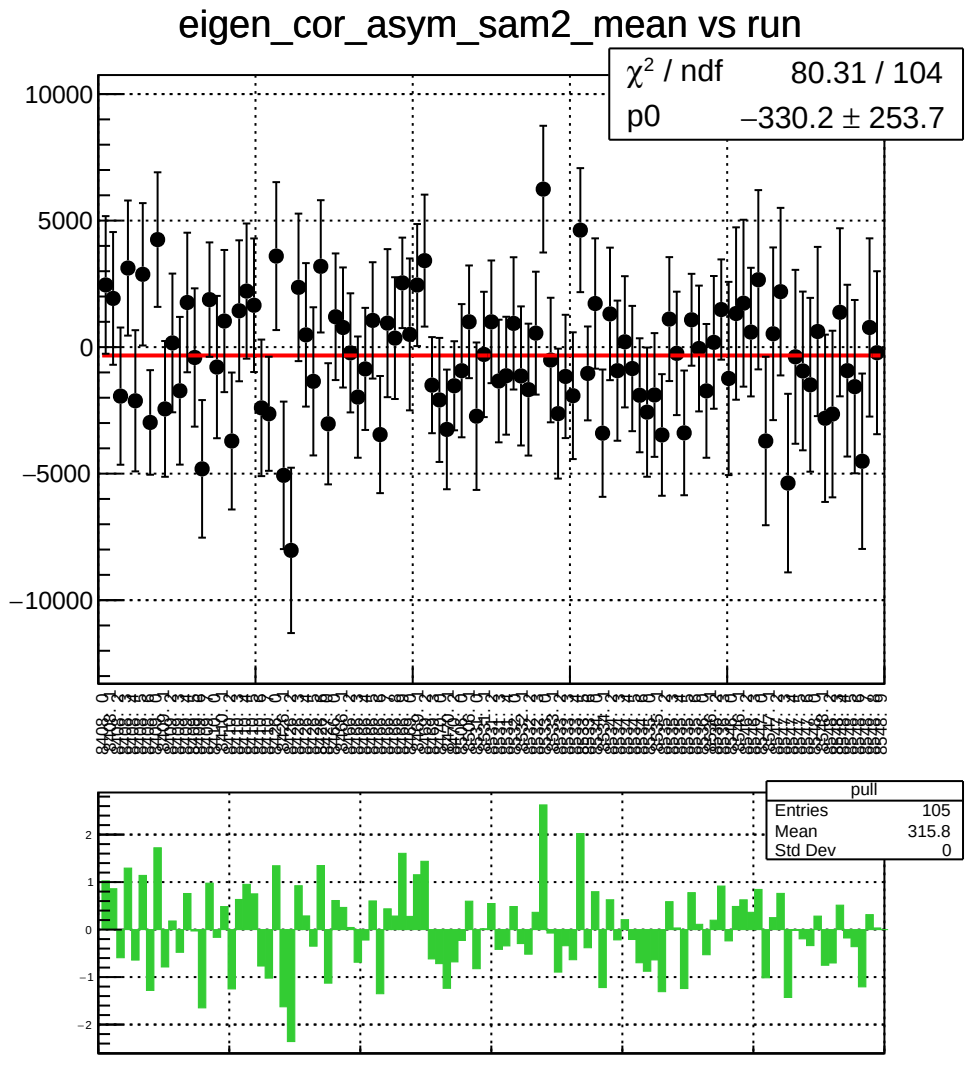

pull1D
Entries 105
Mean −0.008937
Std Dev 0.8745
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

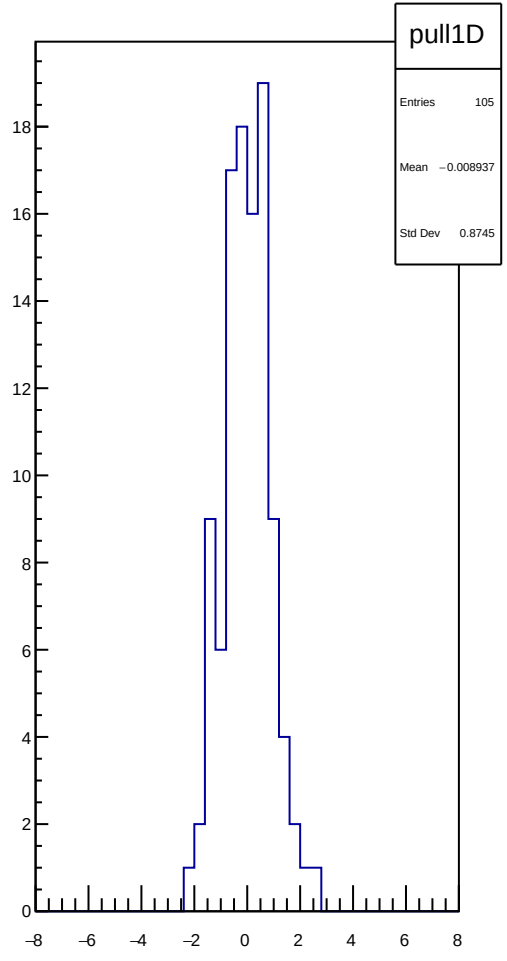

cor_asym_sam2_rms vs run
χ² / ndf 3.008e+04 / 104
p0 254.7 ± 0.1794
360
340
320
300
280
260
240
220

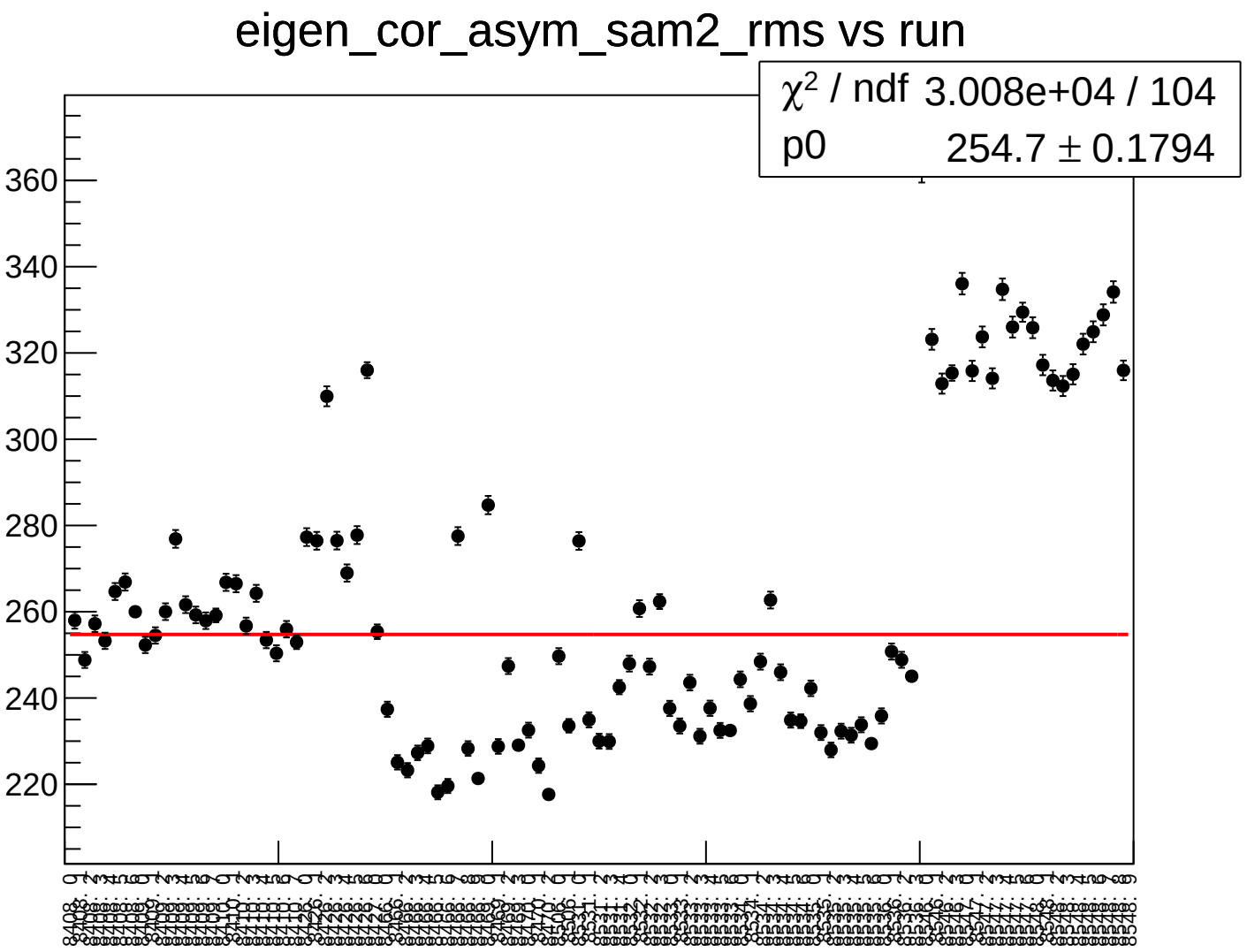

asym_sam2_cor_correction_mean vs run
×10^3
χ^2 / ndf 105.8 / 104
p0 −9244 ± 3965
150
100
50
0
−50
−100
−150
pull
Entries 105
Mean −418.2
Std Dev 0
2
1
0
−1
−2

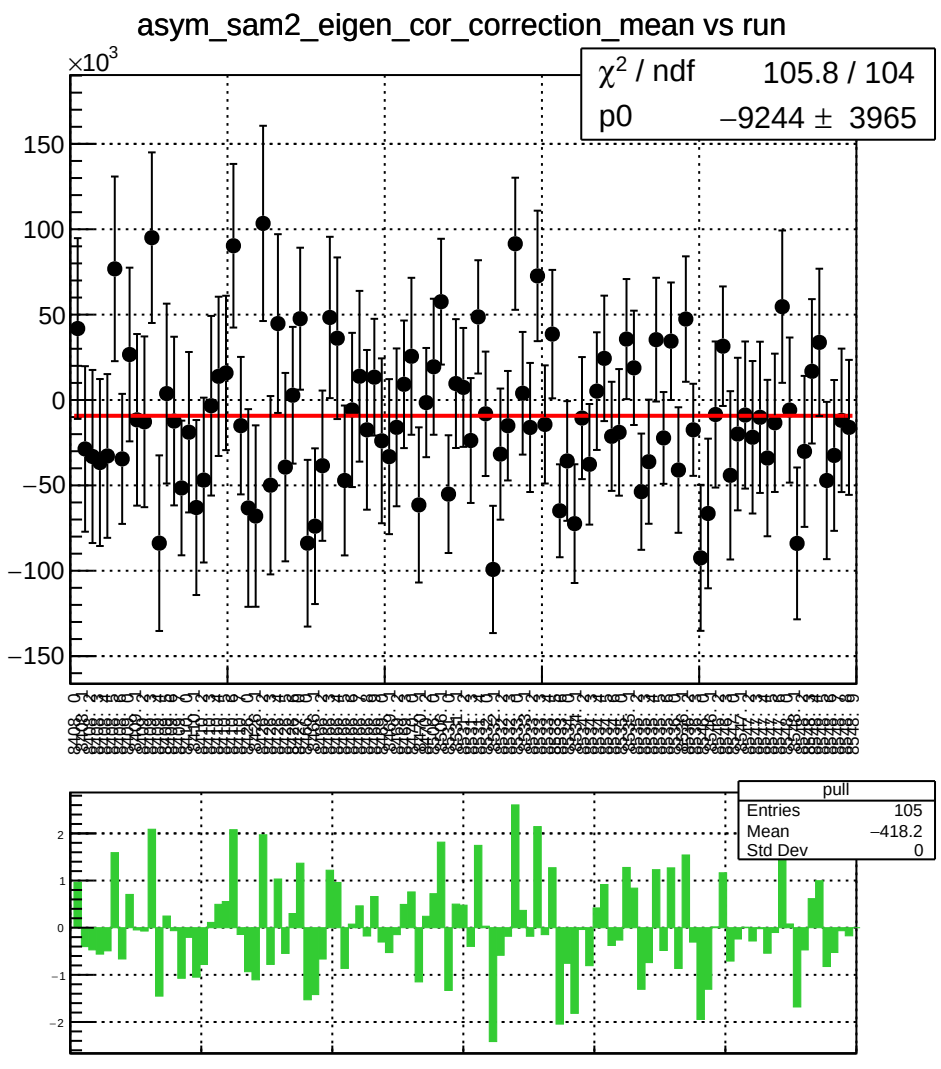

pull1D
Entries 105
Mean 0.003338
Std Dev 1.004
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

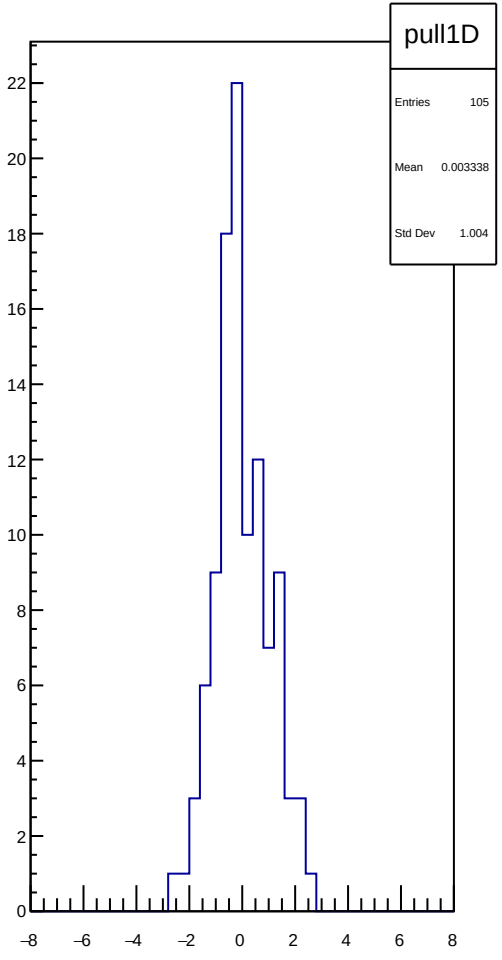

asym_sam2_cor_correction_rms vs run
χ² / ndf 4.197e+04 / 104
p0 3969 ± 2.804
5500
5000
4500
4000
3500
3000

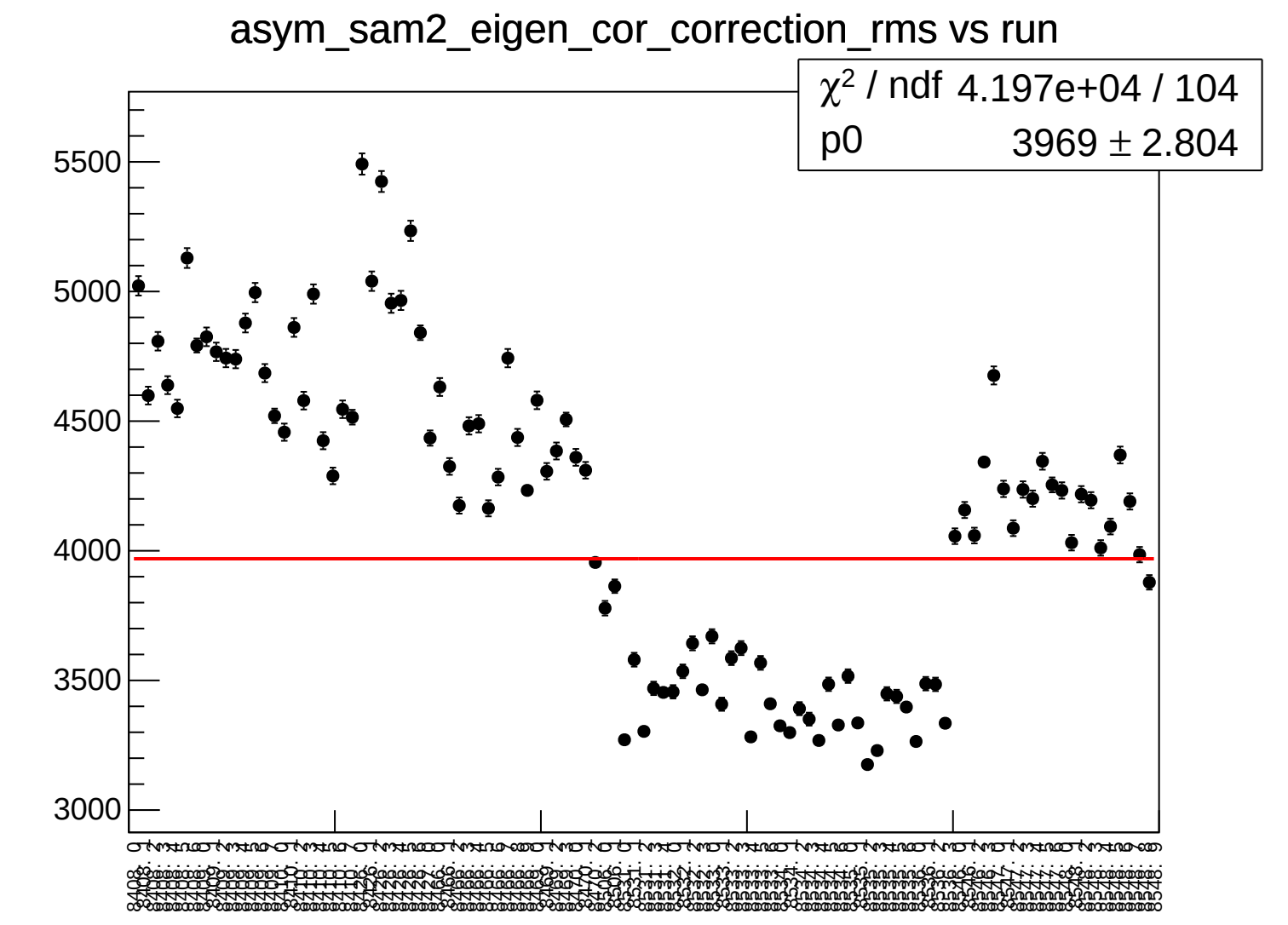

eigen_cor_asym_sam2_mean vs run
χ² / ndf 80.31 / 104
p0 −330.2 ± 253.7
10000
5000
0
−5000
−10000
pull
Entries 105
Mean 315.8
Std Dev 0
2
1
0
−1
−2

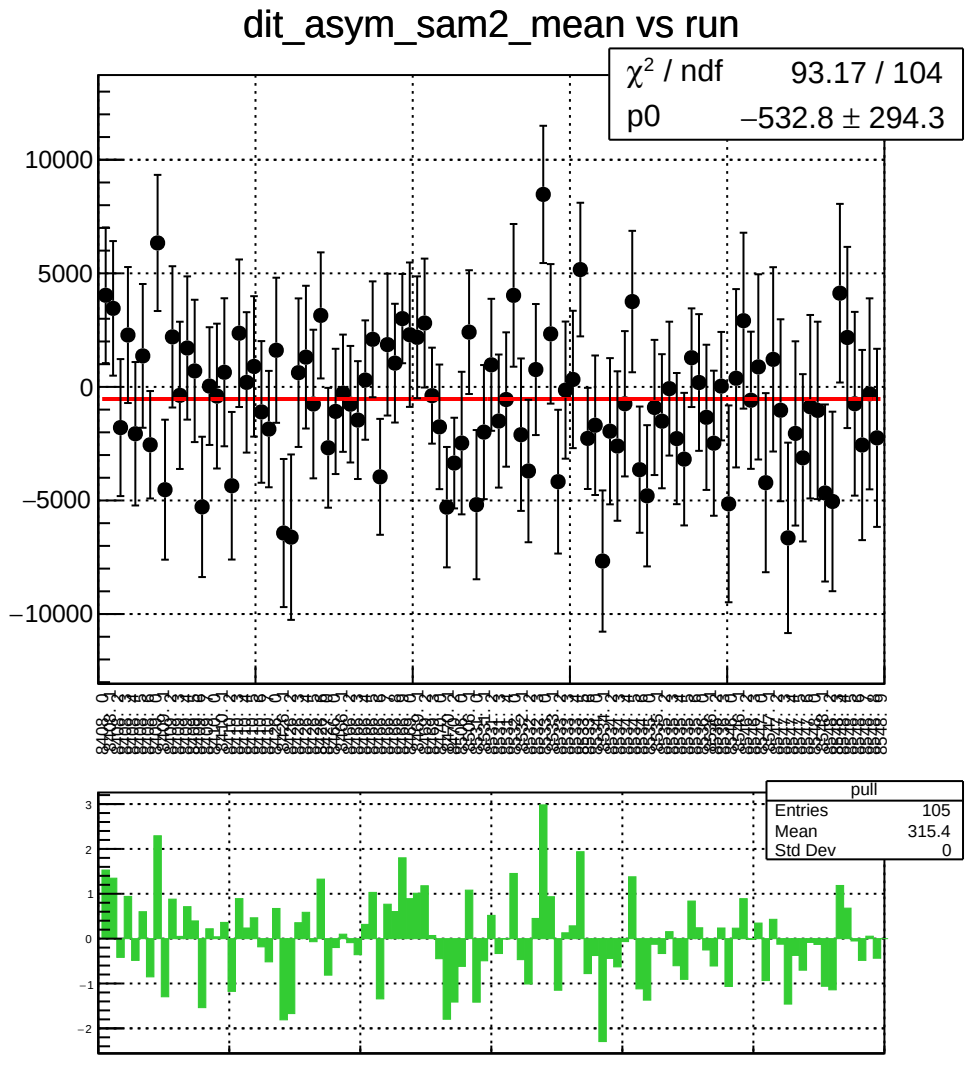

pull1D
Entries 105
Mean −0.008937
Std Dev 0.8745
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

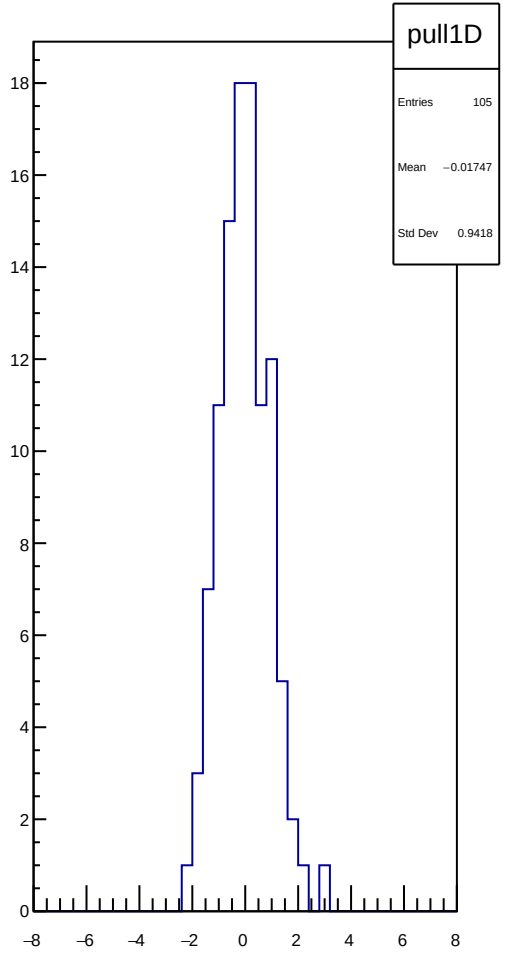

eigen_cor_asym_sam2_rms vs run
χ² / ndf 3.008e+04 / 104
p0 254.7 ± 0.1794
360
340
320
300
280
260
240
220

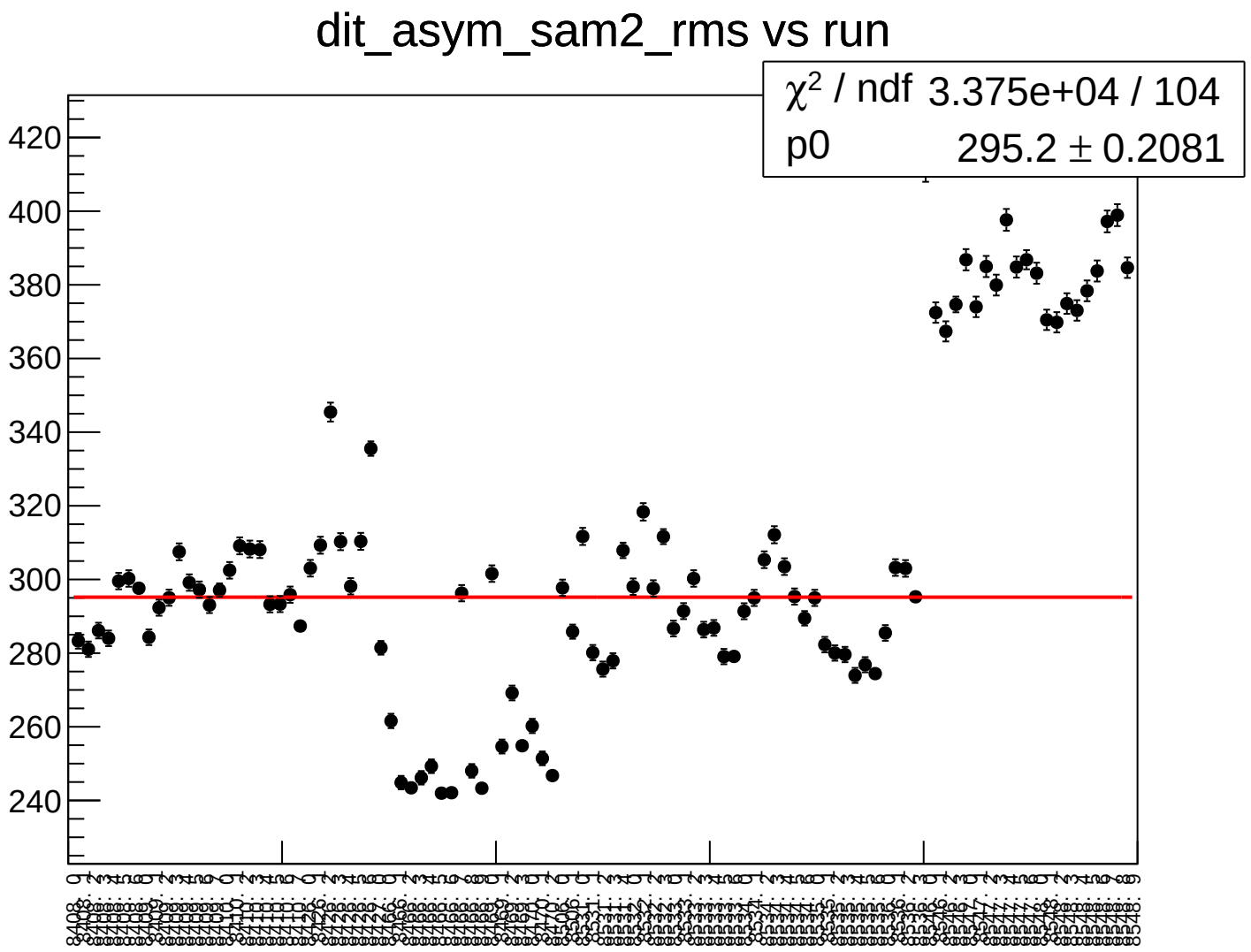

asym_sam2_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 105.8 / 104
p0 −9244 ± 3965
150
100
50
0
−50
−100
−150
pull
Entries 105
Mean −418.2
Std Dev 0
2
1
0
−1
−2

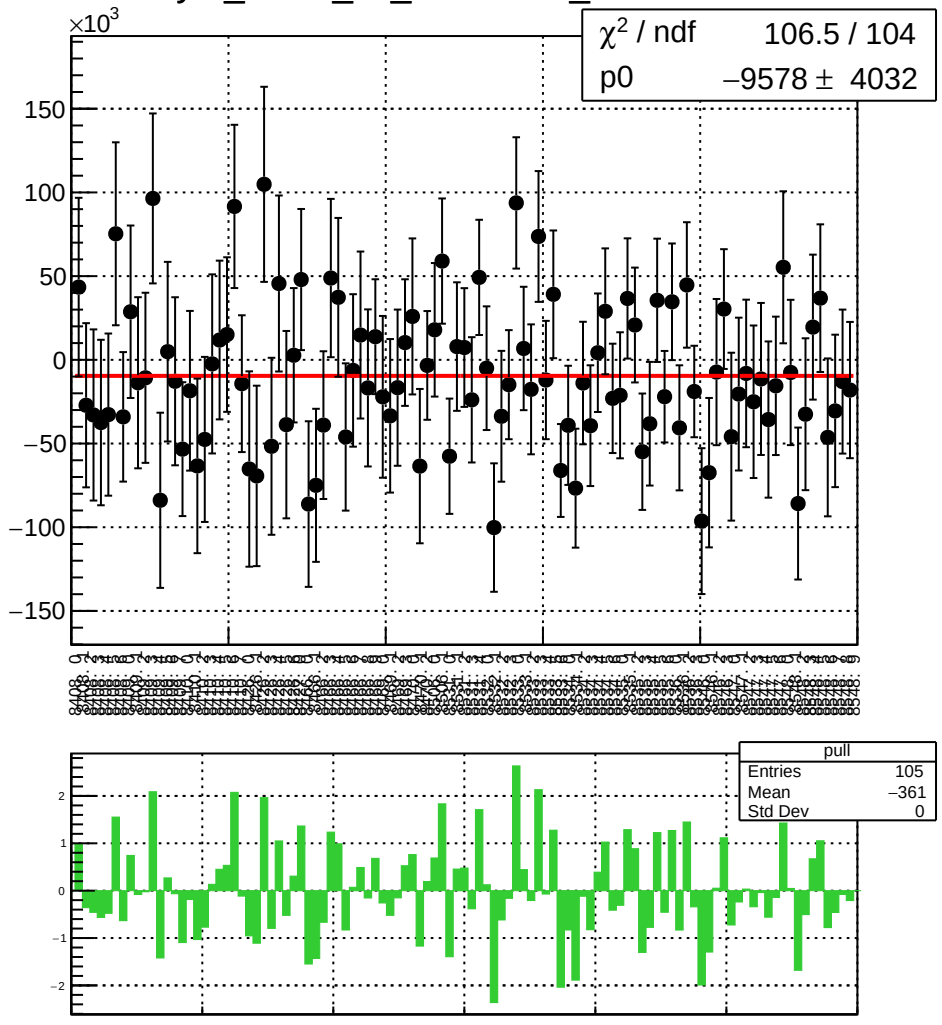

pull1D
Entries 105
Mean 0.003338
Std Dev 1.004
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

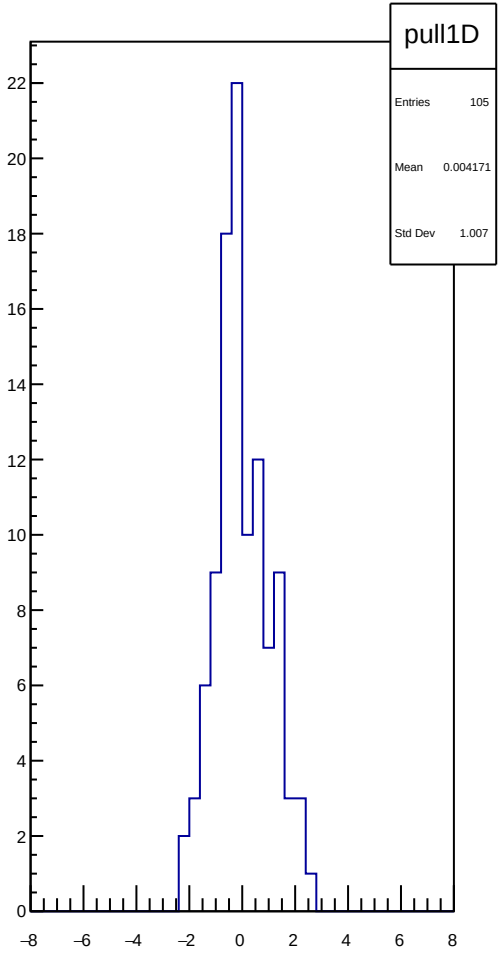

asym_sam2_eigen_cor_correction_rms vs run
χ² / ndf 4.197e+04 / 104
p0 3969 ± 2.804
5500
5000
4500
4000
3500
3000

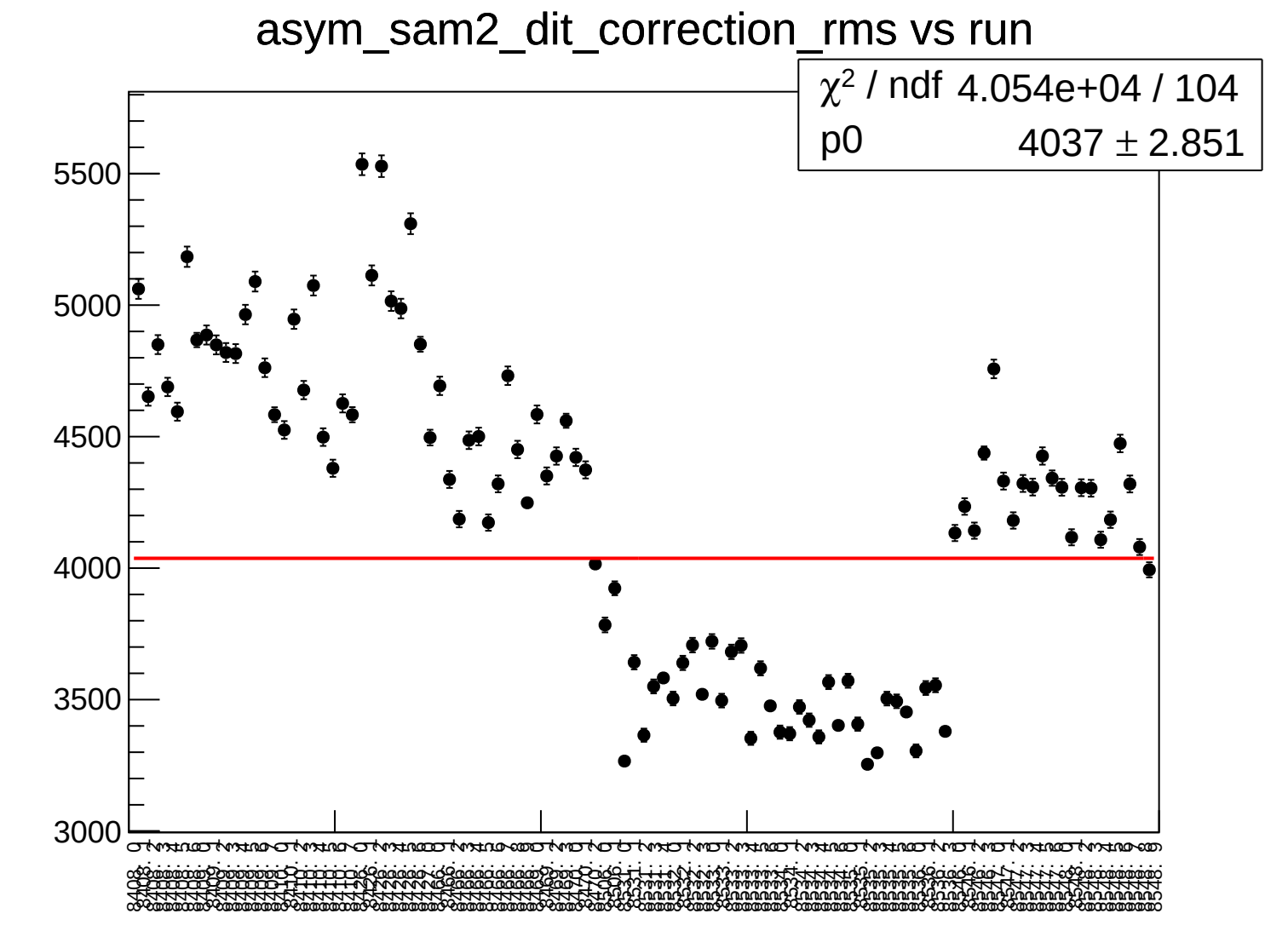

dit_asym_sam2_mean vs run
χ² / ndf 93.17 / 104
p0 −532.8 ± 294.3
10000
5000
0
−5000
−10000
pull
Entries 105
Mean 315.4
Std Dev 0
3
2
1
0
−1
−2

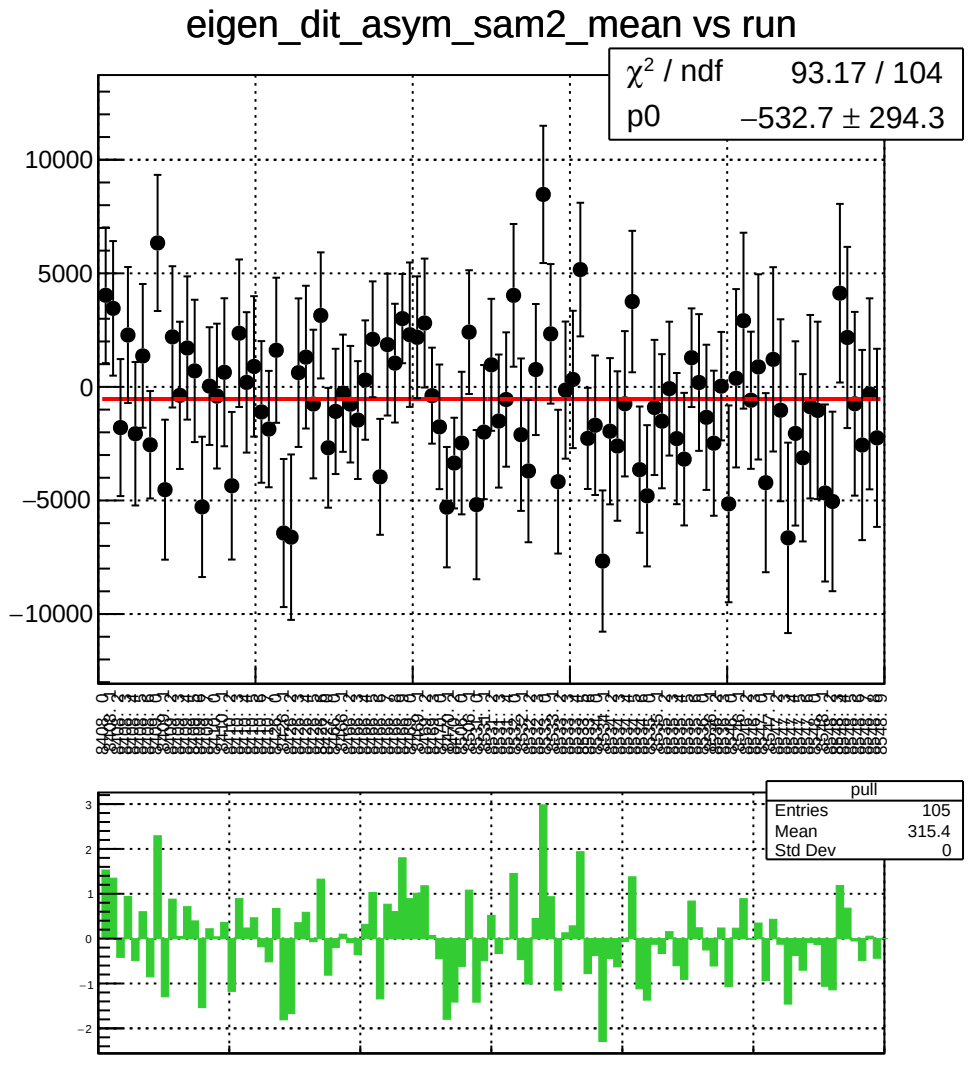

pull1D
Entries 105
Mean −0.01747
Std Dev 0.9418
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

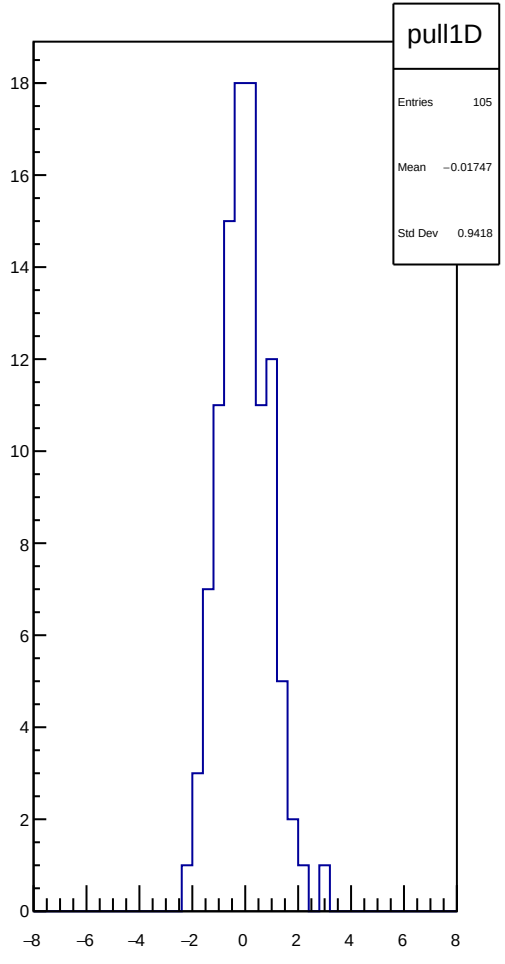

dit_asym_sam2_rms vs run
χ² / ndf 3.375e+04 / 104
p0 295.2 ± 0.2081
420
400
380
360
340
320
300
280
260
240

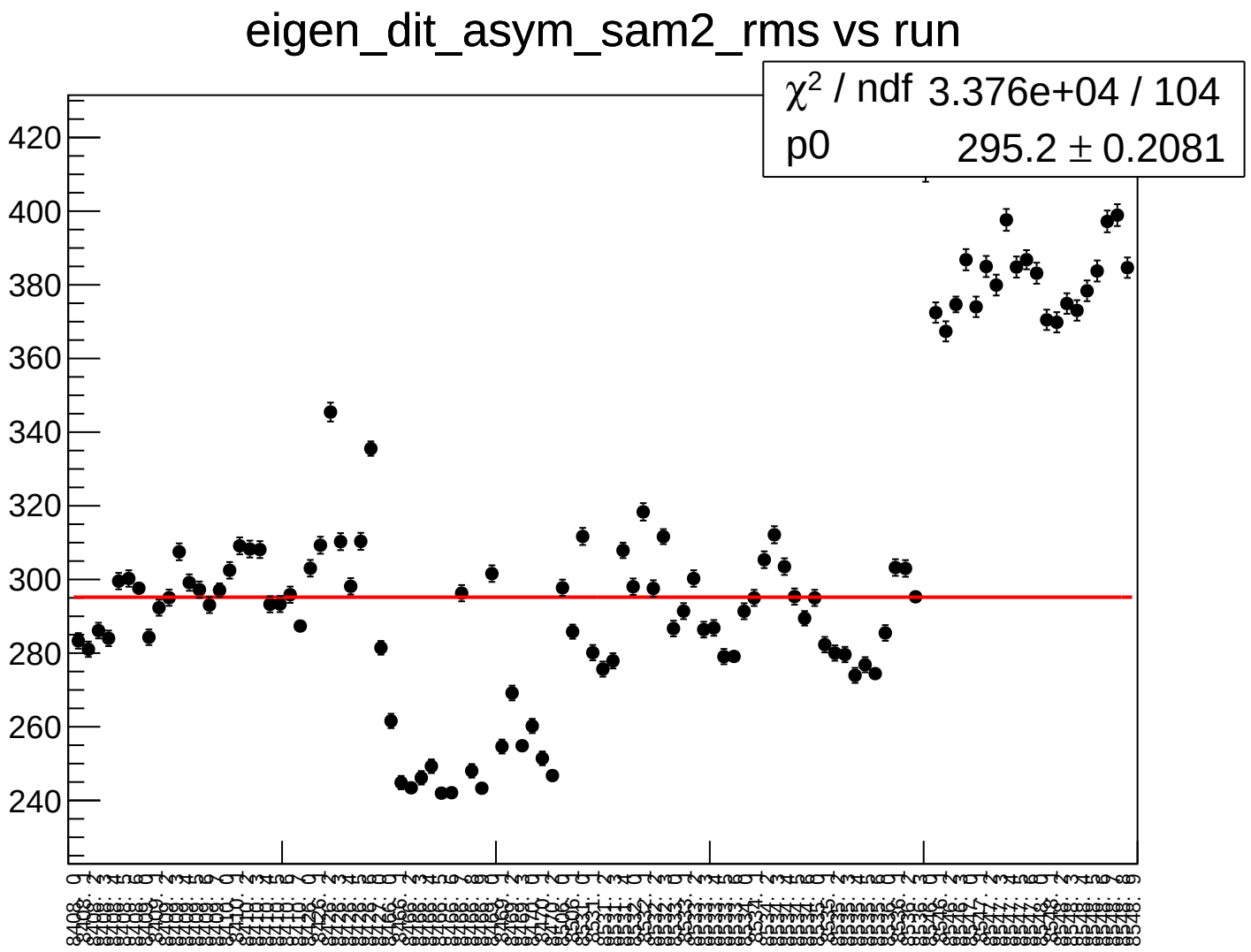

asym_sam2_dit_correction_mean vs run
×10^3
χ^2 / ndf 106.5 / 104
p0 −9578 ± 4032
150
100
50
0
−50
−100
−150
pull
Entries 105
Mean −361
Std Dev 0
2
1
0
−1
−2

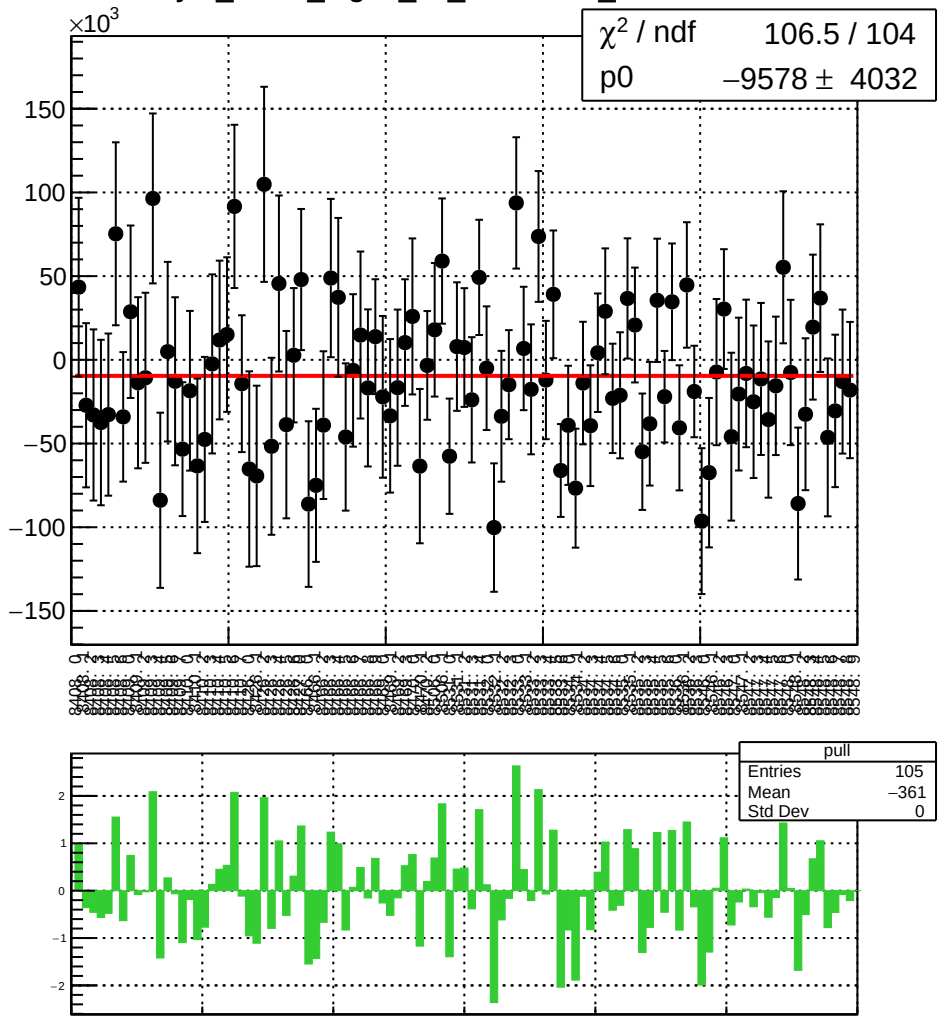

pull1D
Entries 105
Mean 0.004171
Std Dev 1.007
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

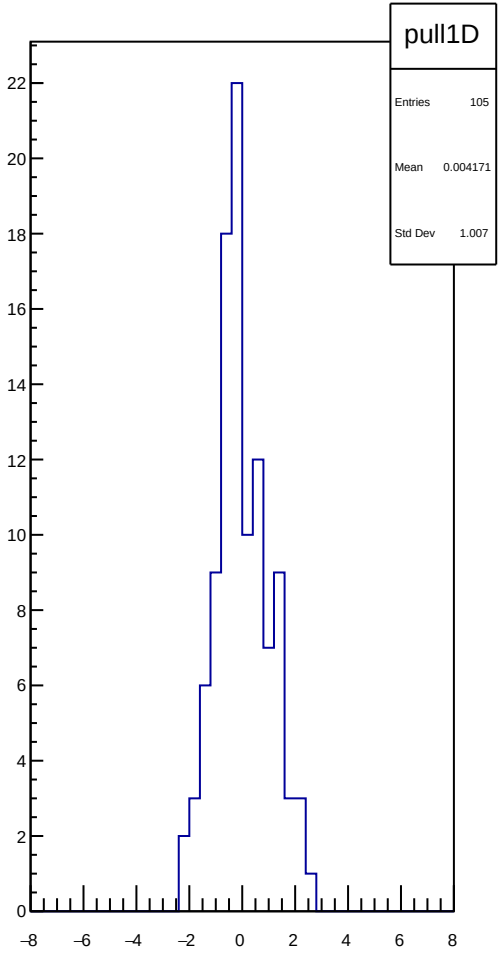

asym_sam2_dit_correction_rms vs run
χ² / ndf 4.054e+04 / 104
p0 4037 ± 2.851
5500
5000
4500
4000
3500
3000

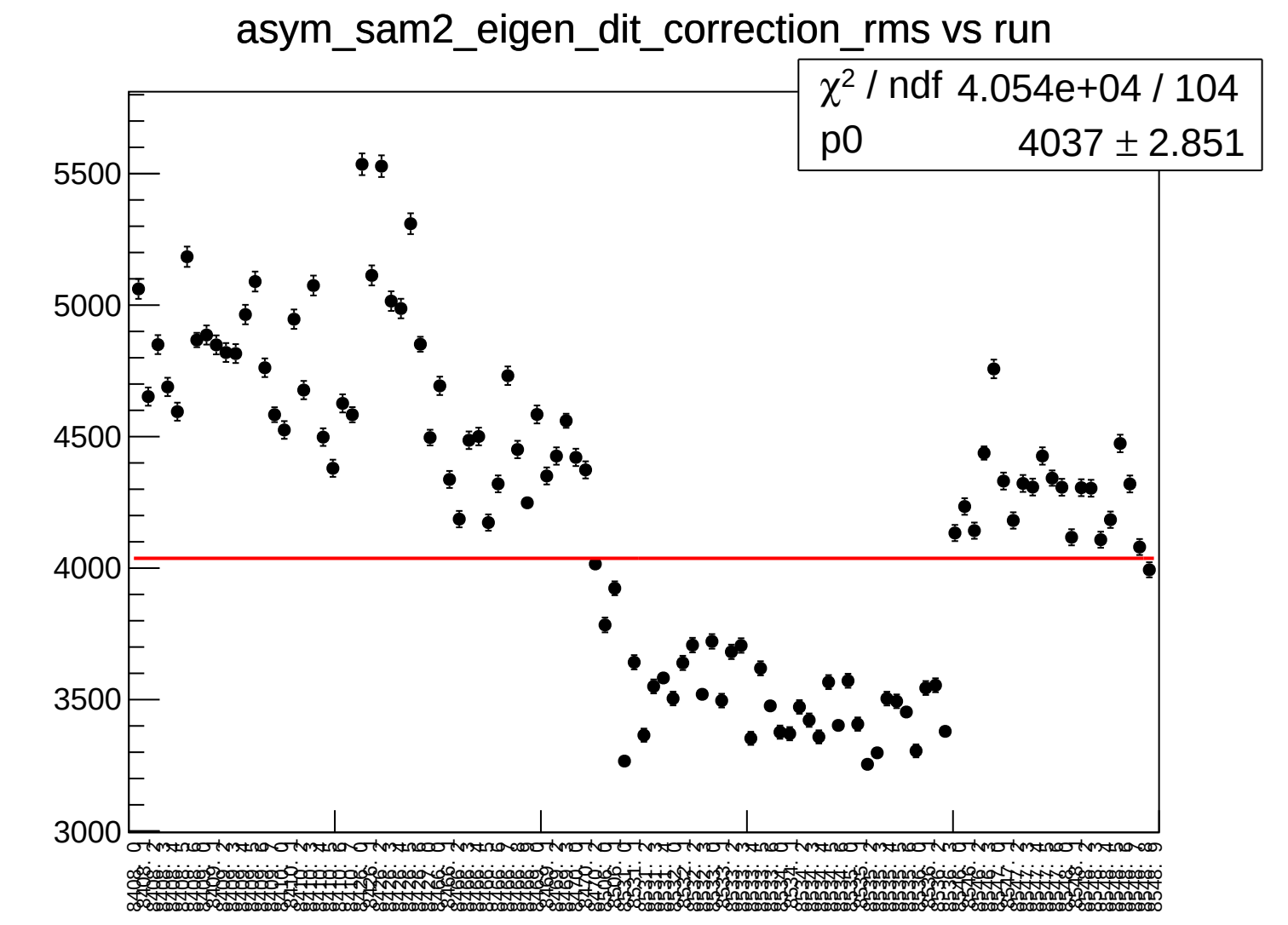

eigen_dit_asym_sam2_mean vs run
χ² / ndf 93.17 / 104
p0 −532.7 ± 294.3
10000
5000
0
−5000
−10000
pull
Entries 105
Mean 315.4
Std Dev 0
3
2
1
0
−1
−2

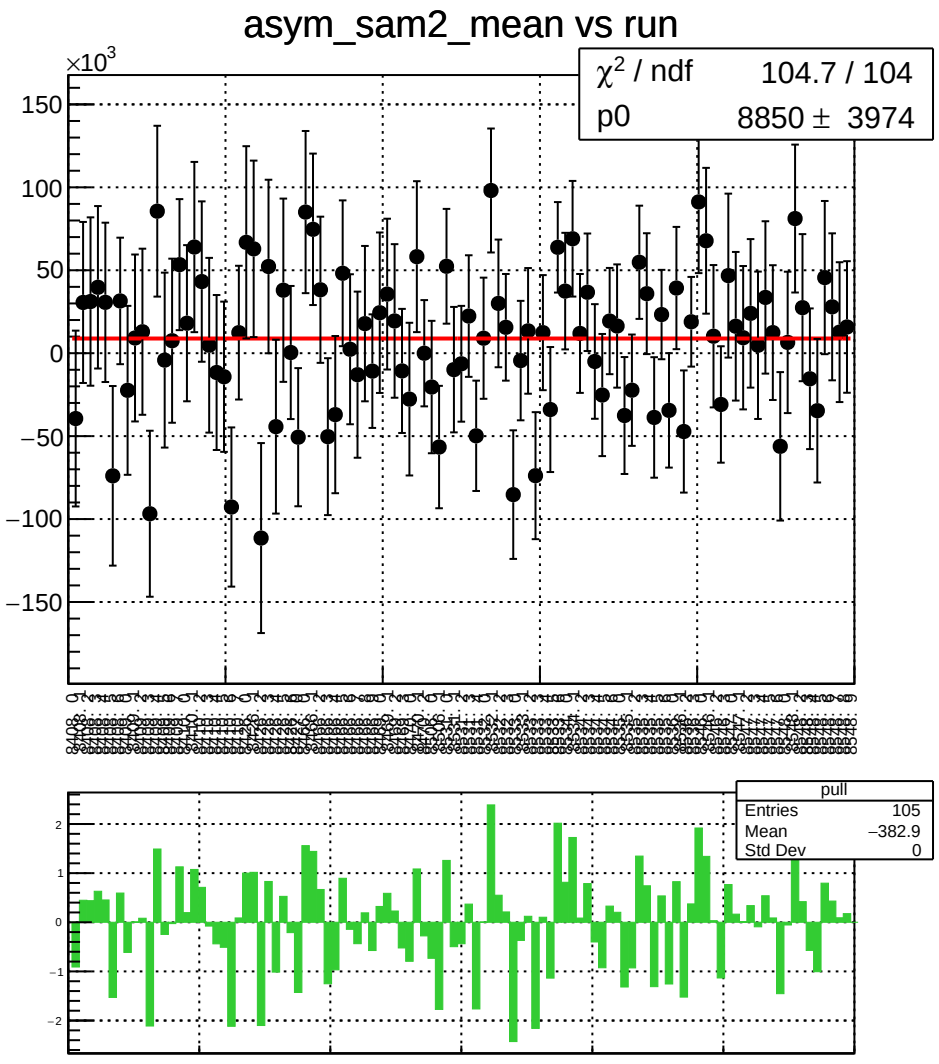

pull1D
Entries 105
Mean −0.01747
Std Dev 0.9418
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

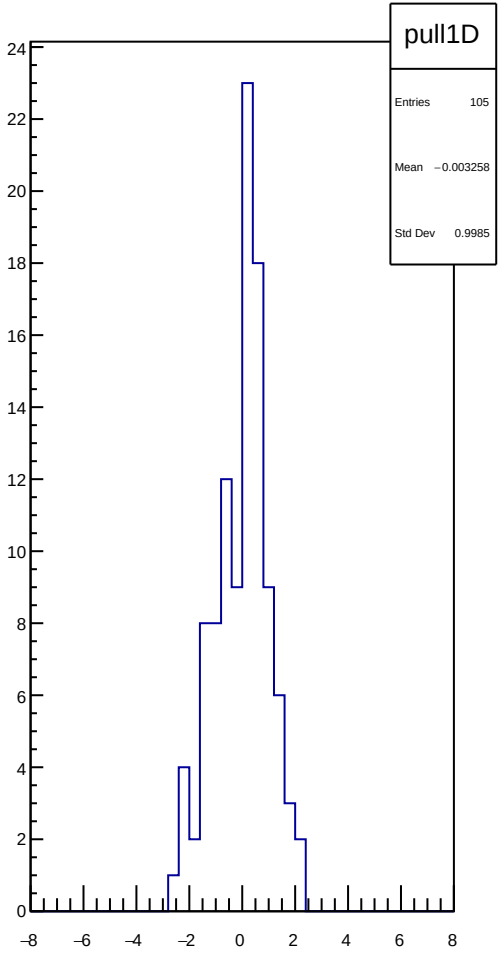

eigen_dit_asym_sam2_rms vs run
χ² / ndf 3.376e+04 / 104
p0 295.2 ± 0.2081
420
400
380
360
340
320
300
280
260
240

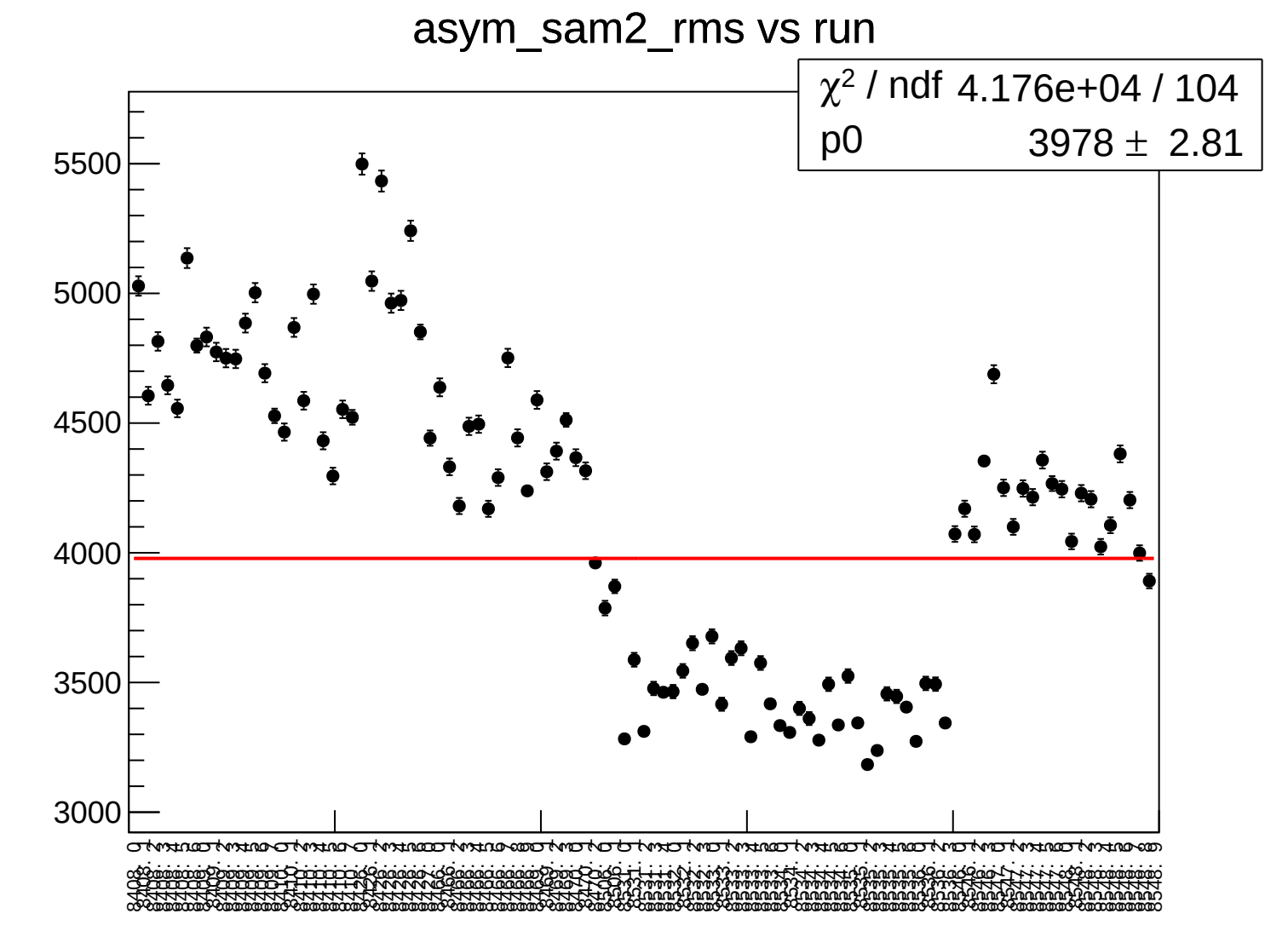

asym_sam2_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 106.5 / 104
p0 −9578 ± 4032
150
100
50
0
−50
−100
−150
pull
Entries 105
Mean −361
Std Dev 0
2
1
0
−1
−2

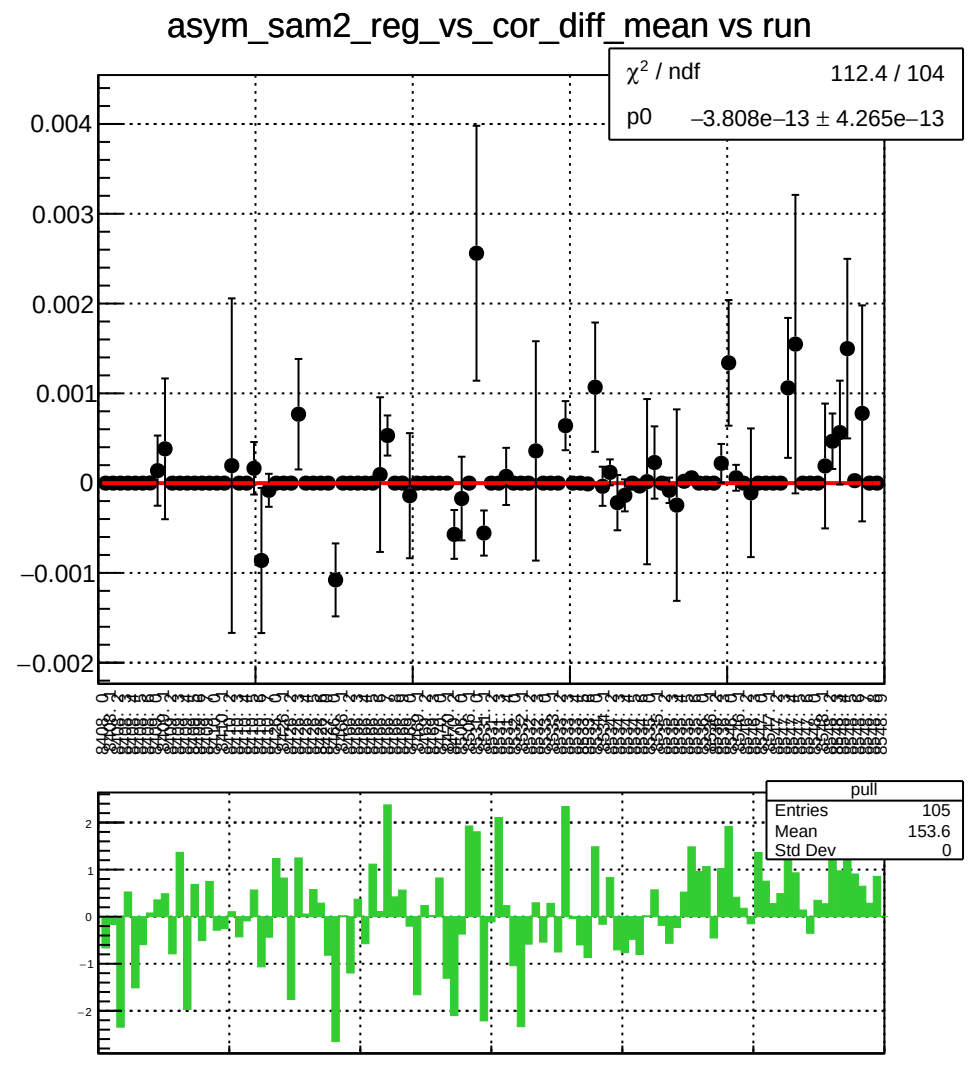

pull1D
Entries 105
Mean 0.004171
Std Dev 1.007
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

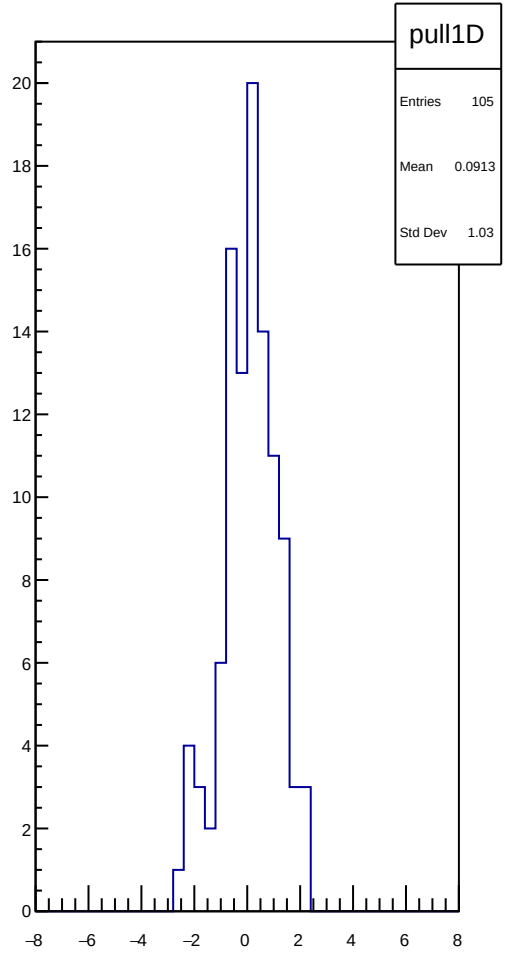

asym_sam2_eigen_dit_correction_rms vs run
χ² / ndf 4.054e+04 / 104
p0 4037 ± 2.851
5500
5000
4500
4000
3500
3000

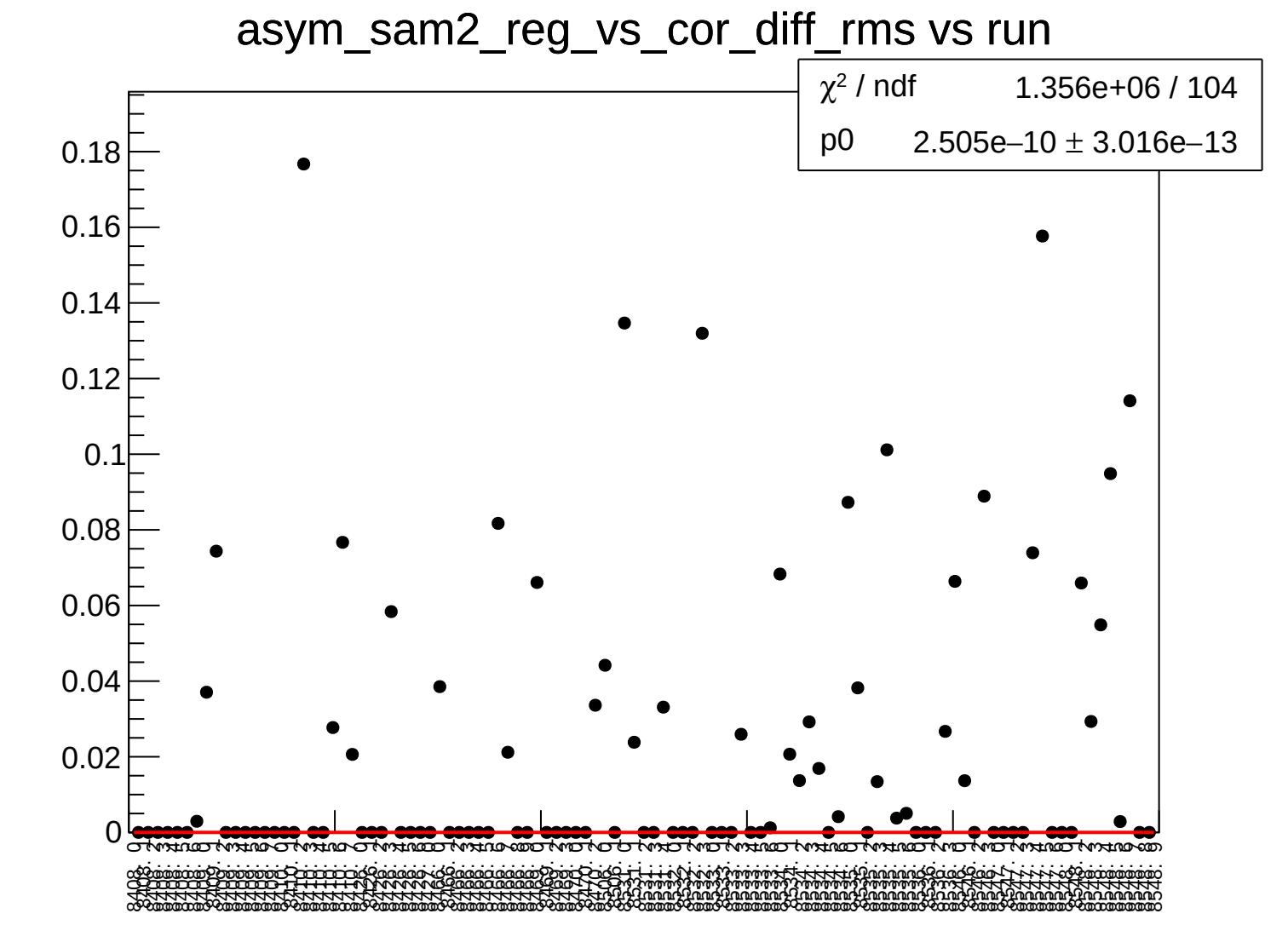

asym_sam2_mean vs run
×10^3
χ^2 / ndf 104.7 / 104
p0 8850 ± 3974
150
100
50
0
−50
−100
−150
pull
Entries 105
Mean −382.9
Std Dev 0
2
1
0
−1
−2

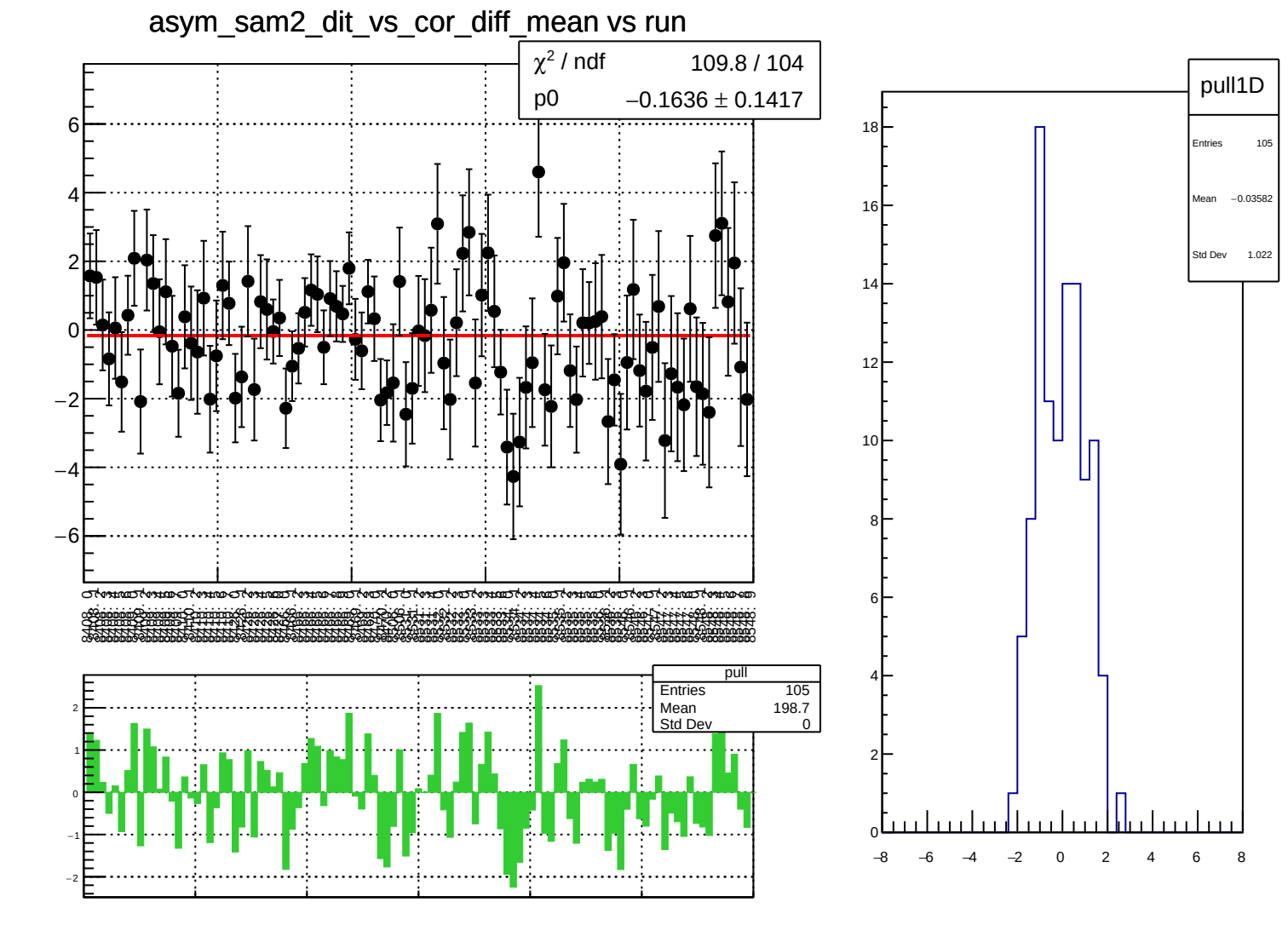

pull1D
Entries 105
Mean −0.003258
Std Dev 0.9985
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

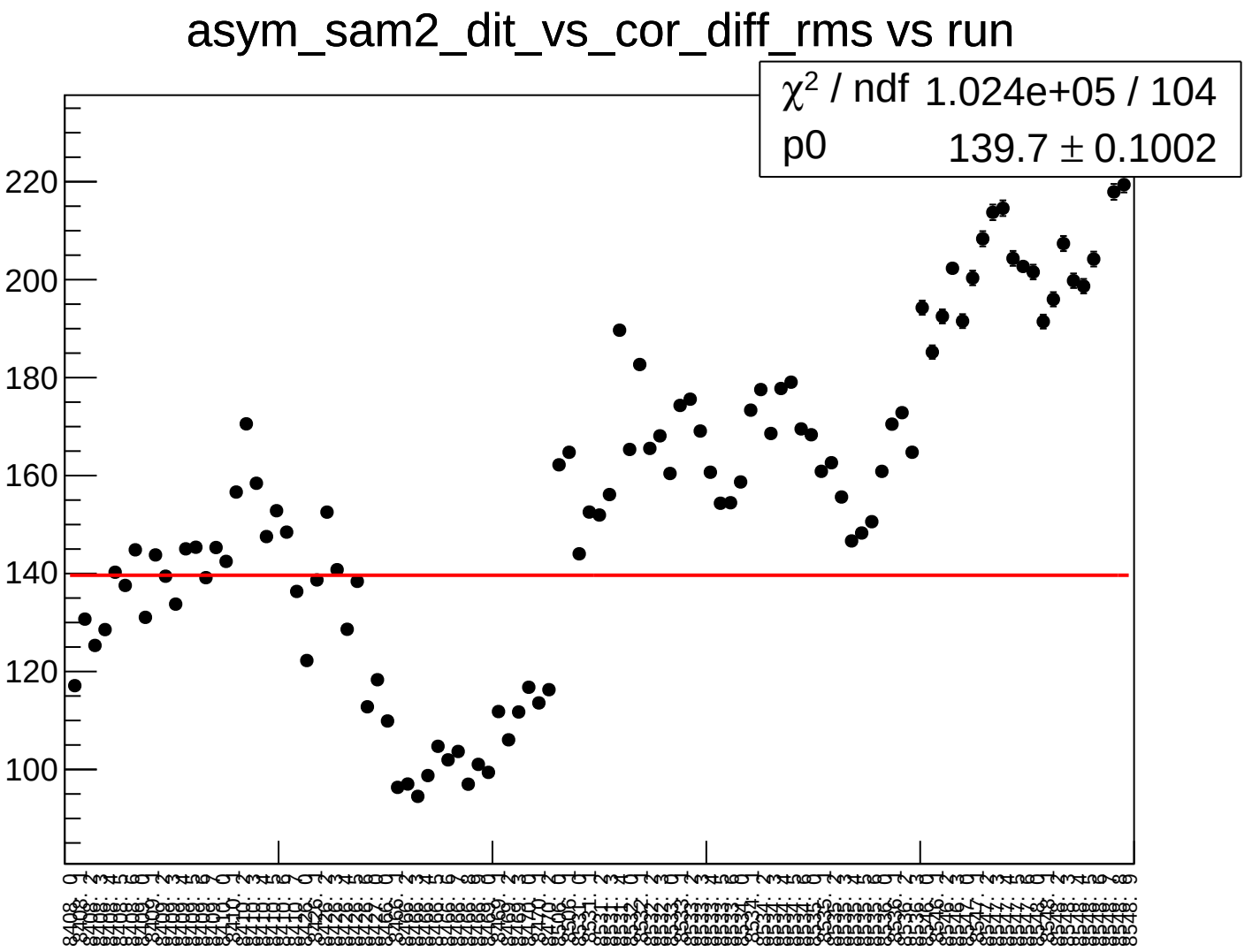

asym_sam2_rms vs run
χ² / ndf 4.176e+04 / 104
p0 3978 ± 2.81
5500
5000
4500
4000
3500
3000

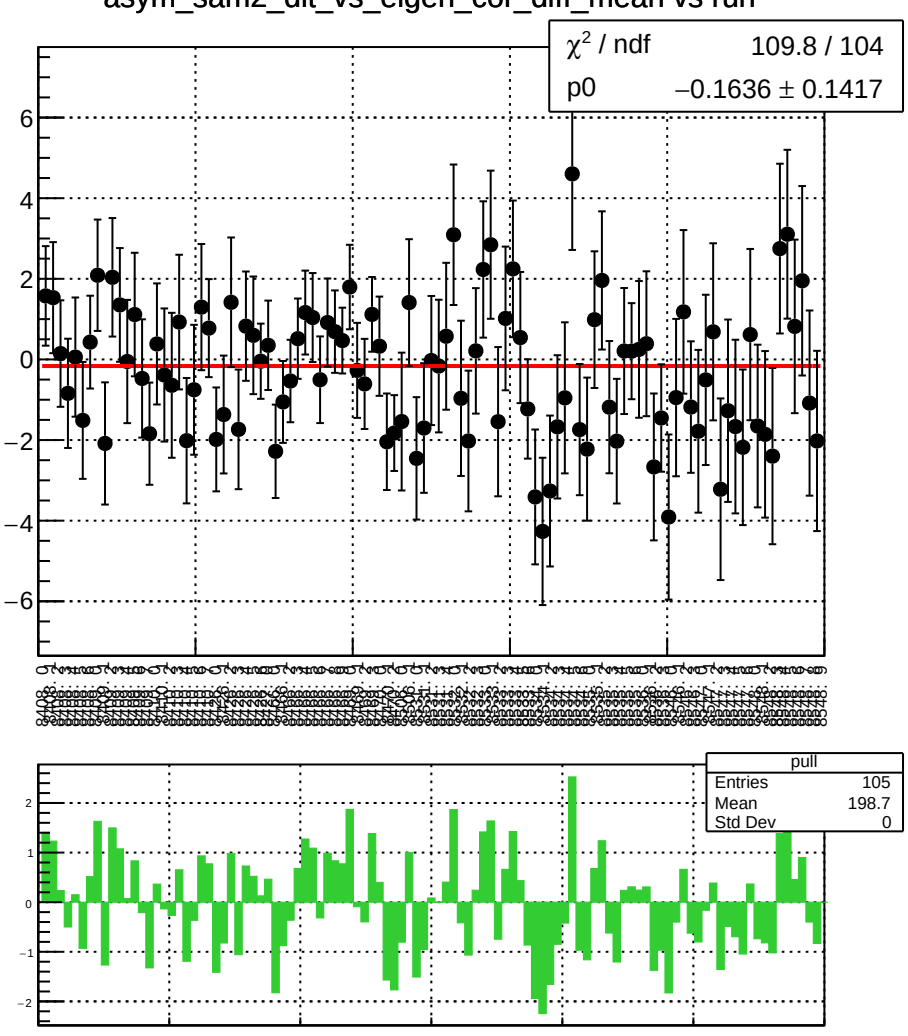

asym_sam2_reg_vs_cor_diff_mean vs run
χ² / ndf 112.4 / 104
p0 −3.808e−13 ± 4.265e−13
0.004
0.003
0.002
0.001
0
−0.001
−0.002
pull
Entries 105
Mean 153.6
Std Dev 0
2
1
0
−1
−2

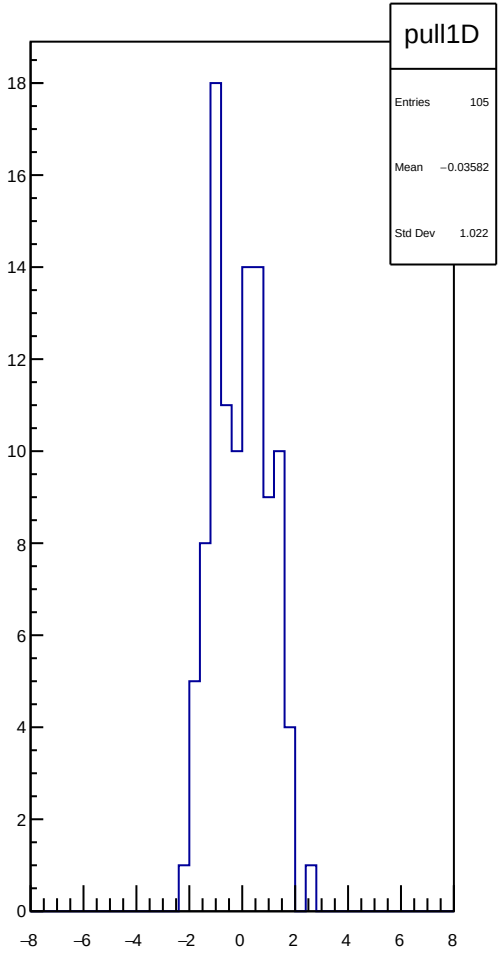

pull1D
Entries 105
Mean 0.0913
Std Dev 1.03
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

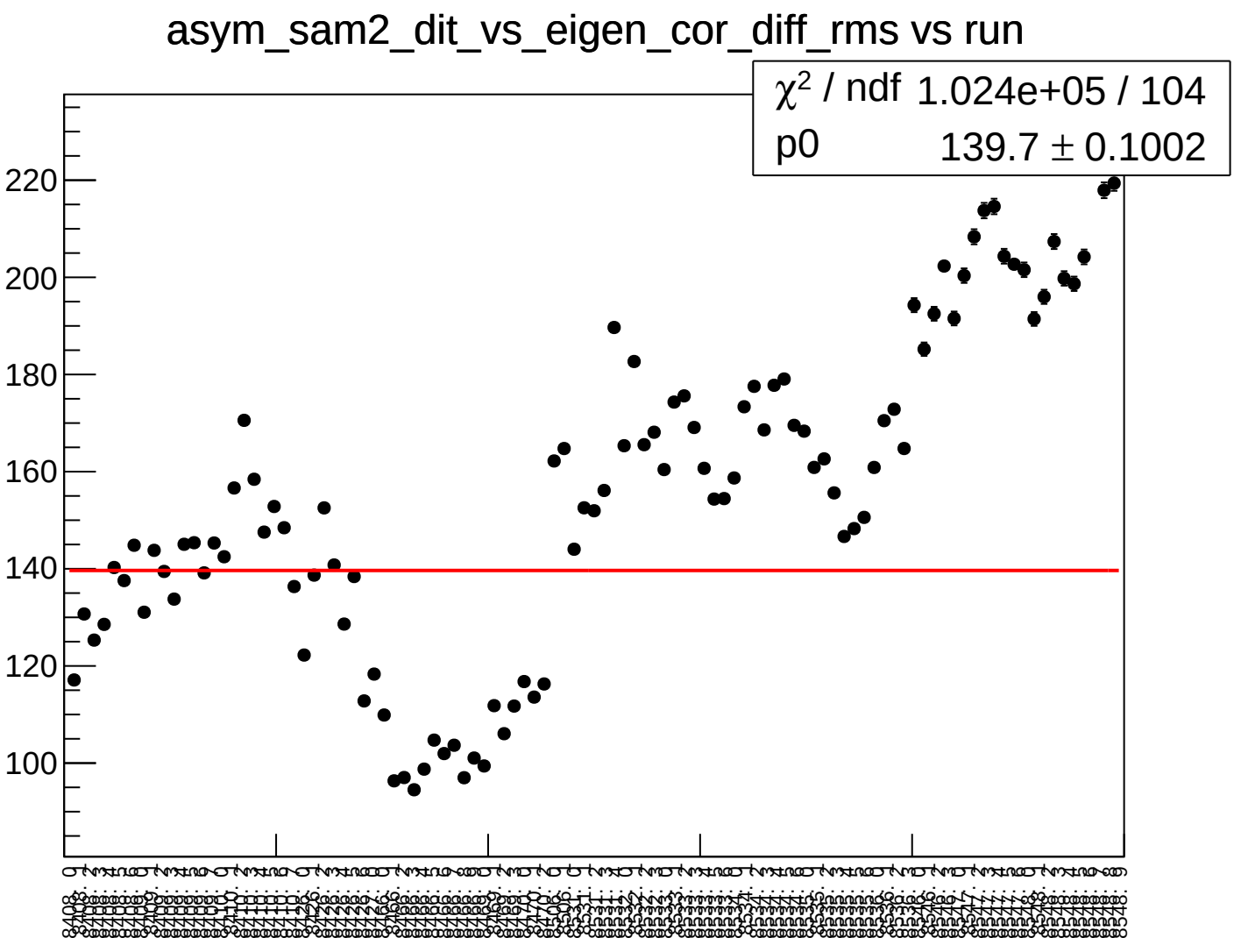

asym_sam2_reg_vs_cor_diff_rms vs run
χ² / ndf 1.356e+06 / 104
p0 2.505e−10 ± 3.016e−13
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

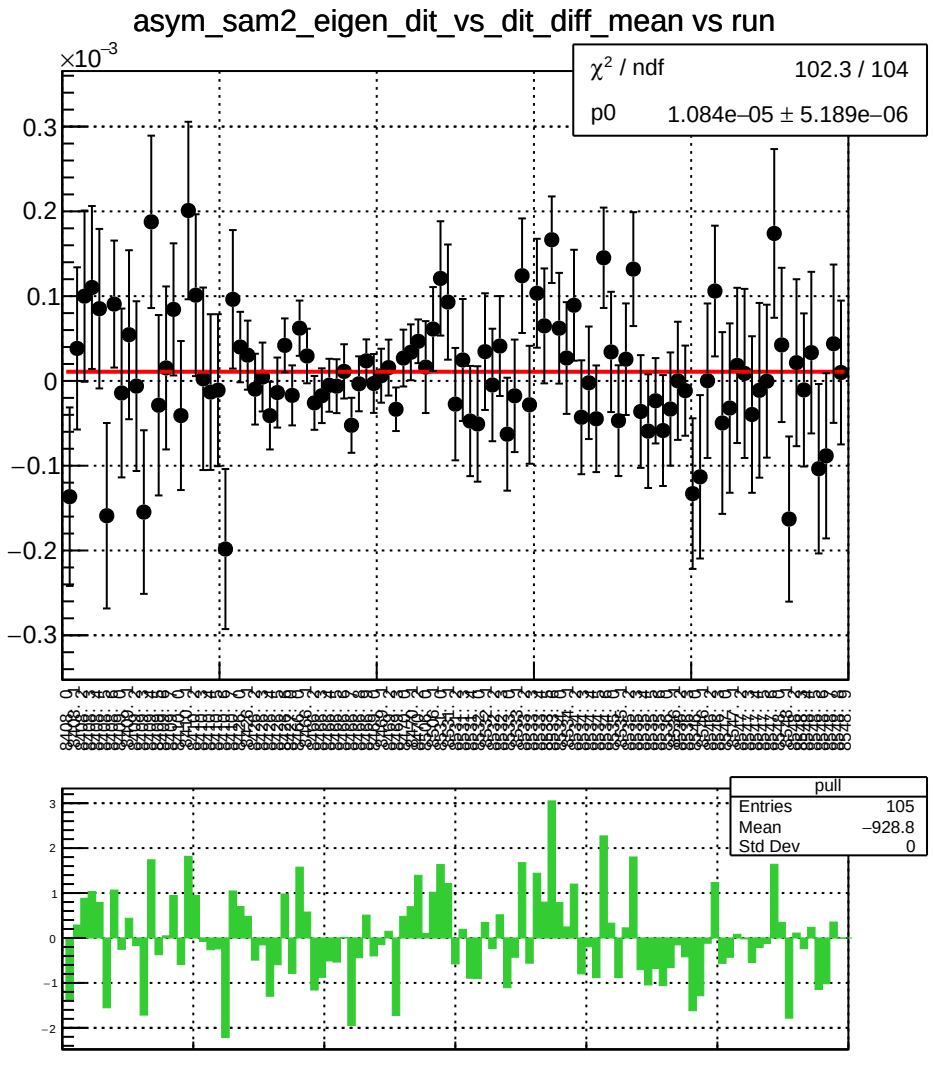

asym_sam2_dit_vs_cor_diff_mean vs run
χ² / ndf 109.8 / 104
p0 −0.1636 ± 0.1417
pull
Entries 105
Mean 198.7
Std Dev 0
pull1D
Entries 105
Mean −0.03582
Std Dev 1.022

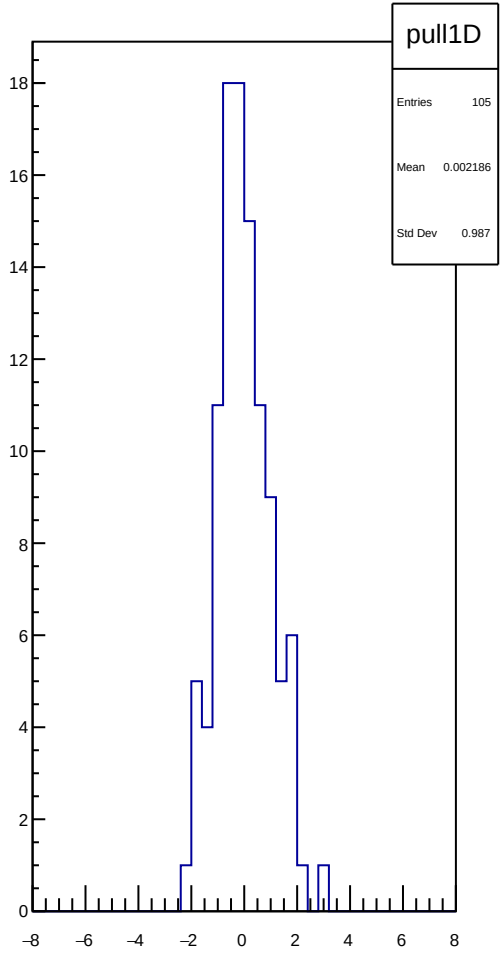

asym_sam2_dit_vs_cor_diff_rms vs run
χ² / ndf 1.024e+05 / 104
p0 139.7 ± 0.1002
220
200
180
160
140
120
100

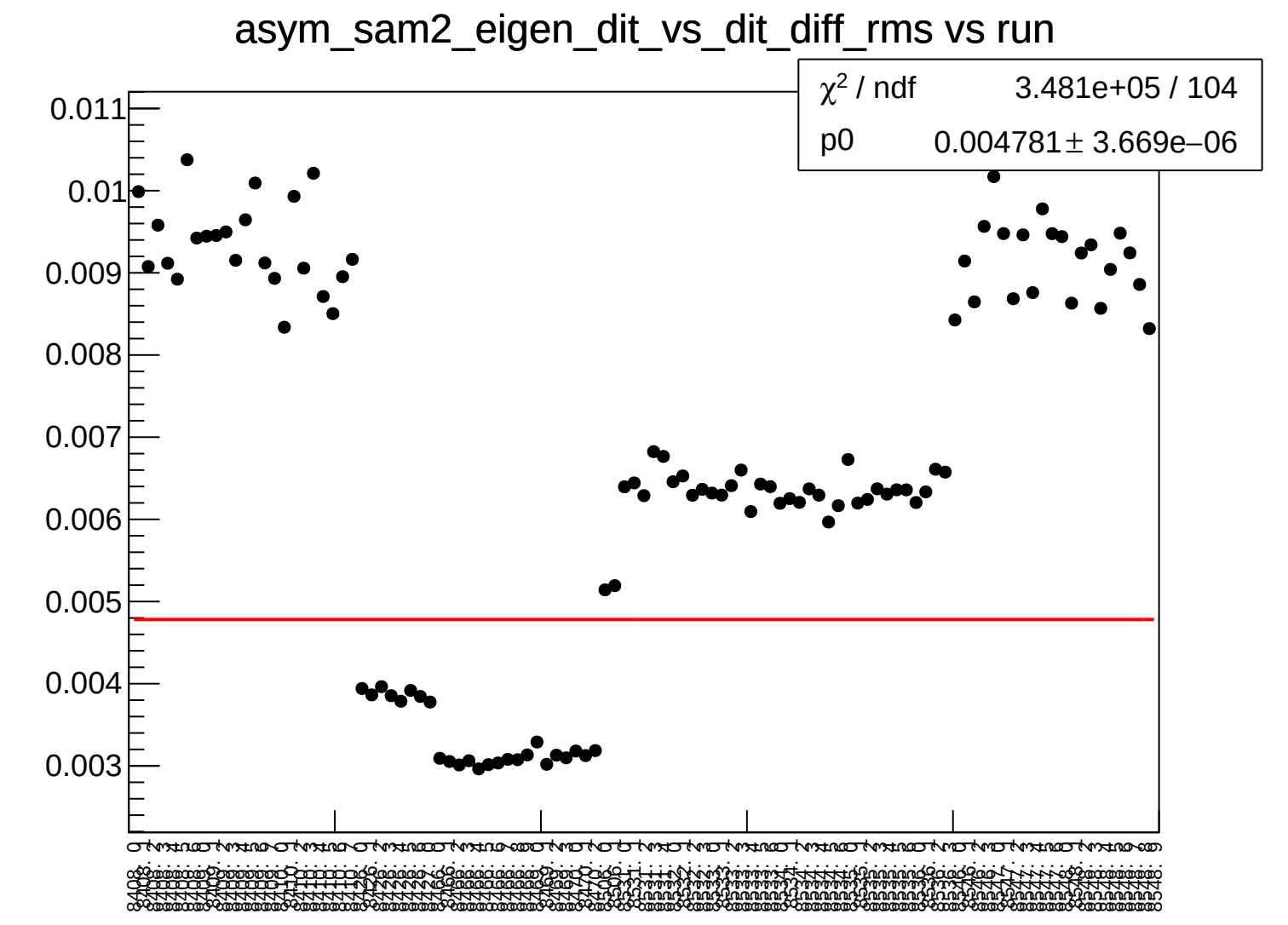

asym_sam2_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.8 / 104
p0 −0.1636 ± 0.1417
pull
Entries 105
Mean 198.7
Std Dev 0

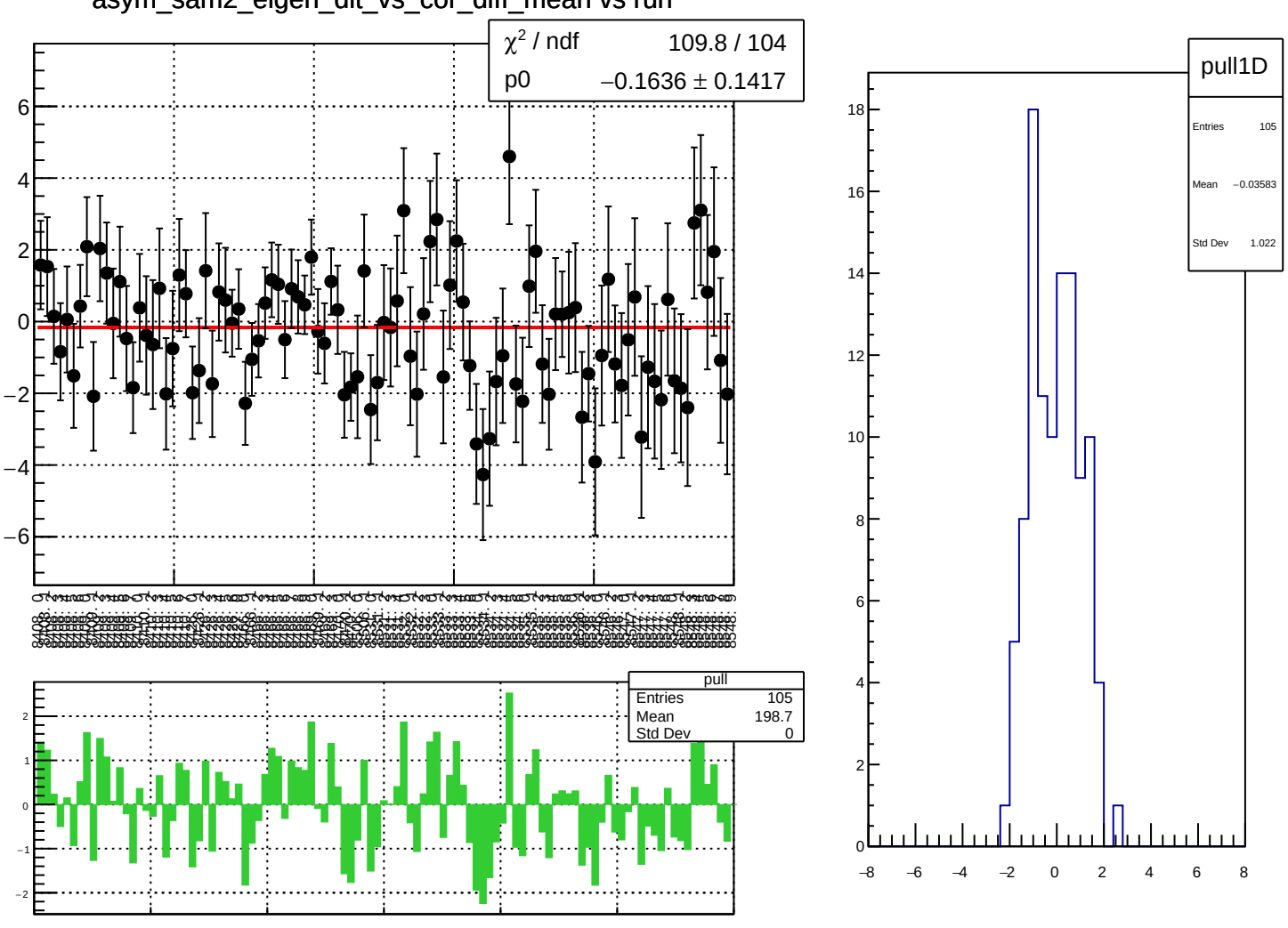

pull1D
Entries 105
Mean −0.03582
Std Dev 1.022

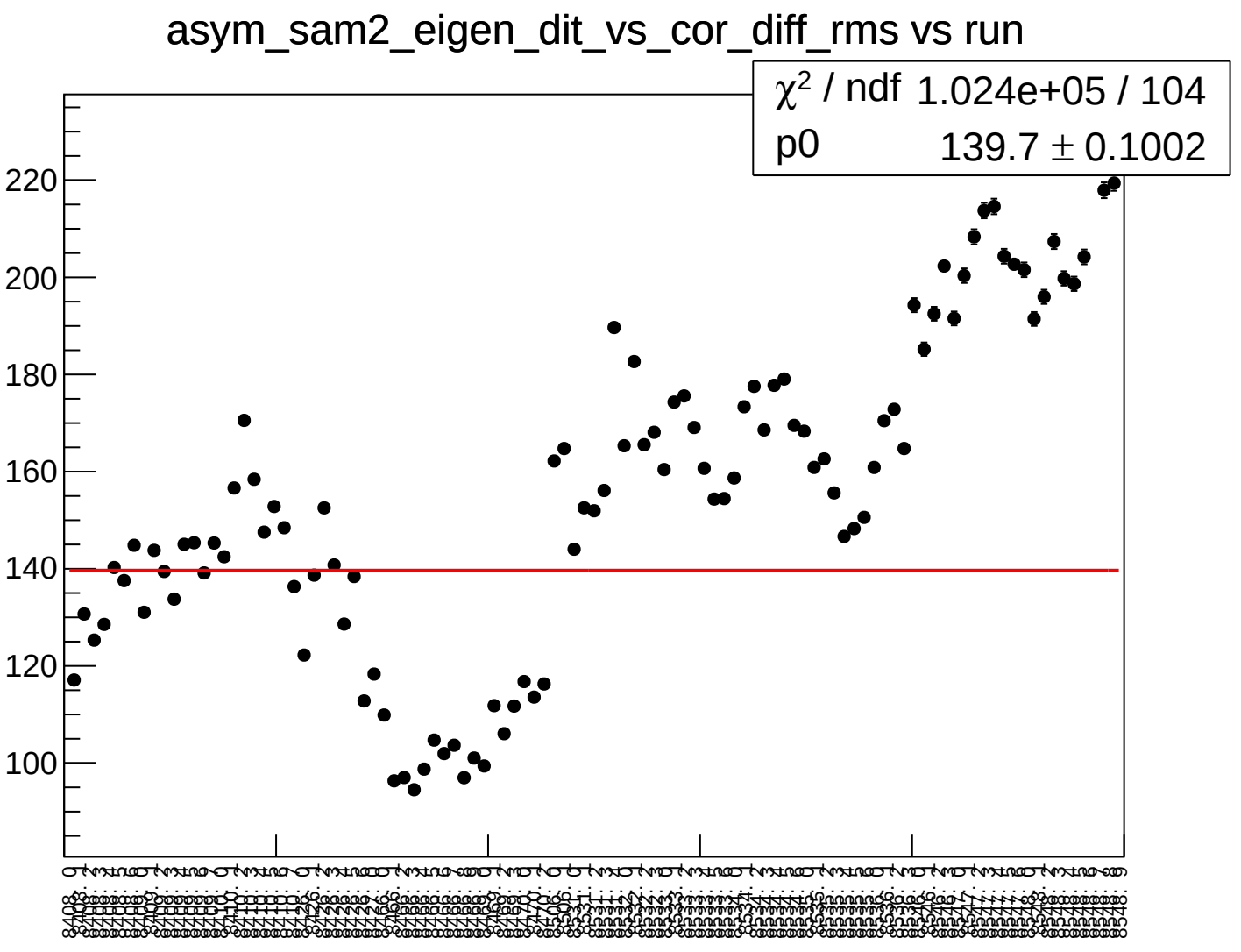

asym_sam2_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.024e+05 / 104
p0 139.7 ± 0.1002
220
200
180
160
140
120
100

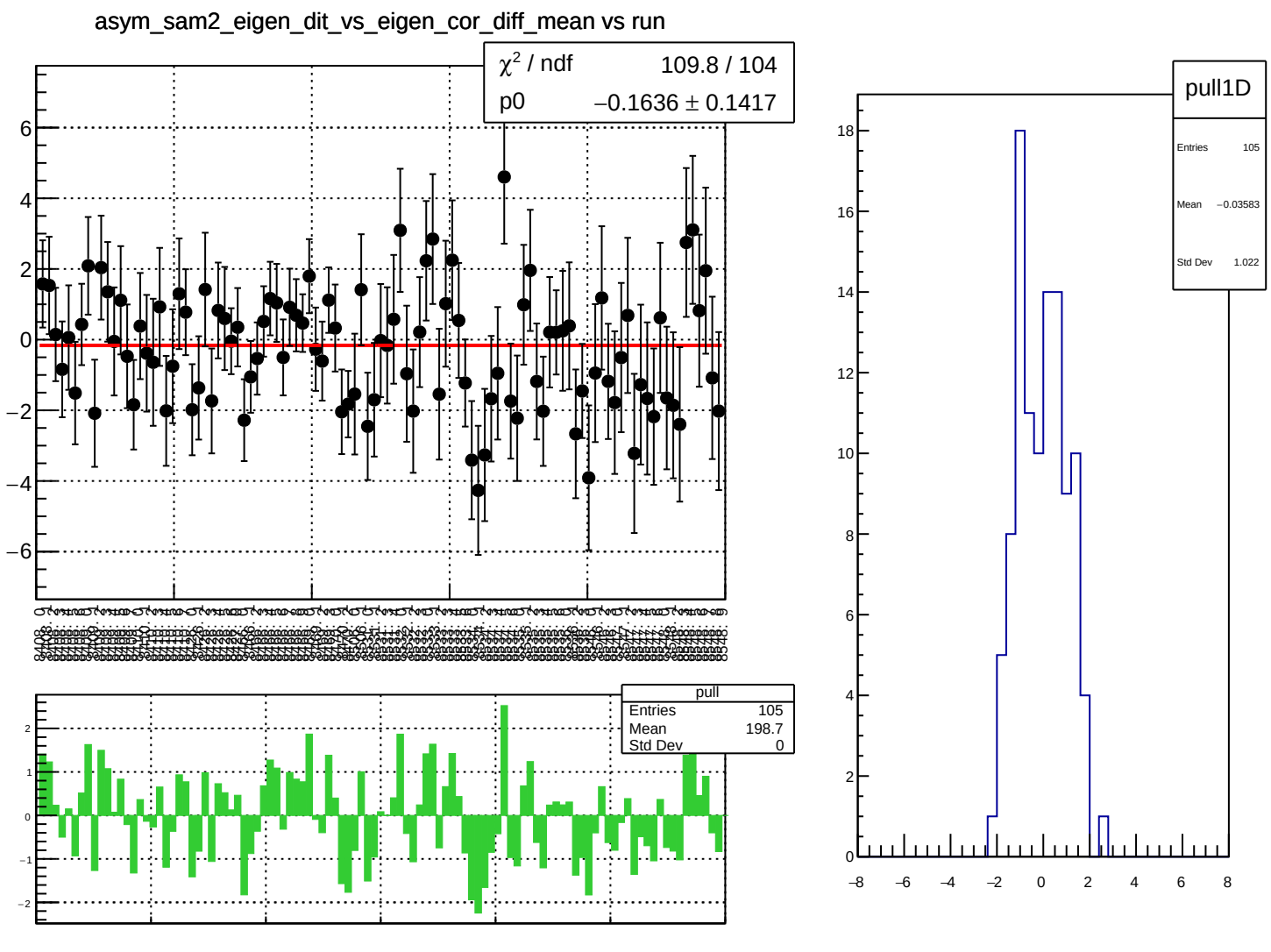

asym_sam2_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 102.3 / 104
p0 1.084e−05 ± 5.189e−06
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull
Entries 105
Mean −928.8
Std Dev 0
3
2
1
0
−1
−2

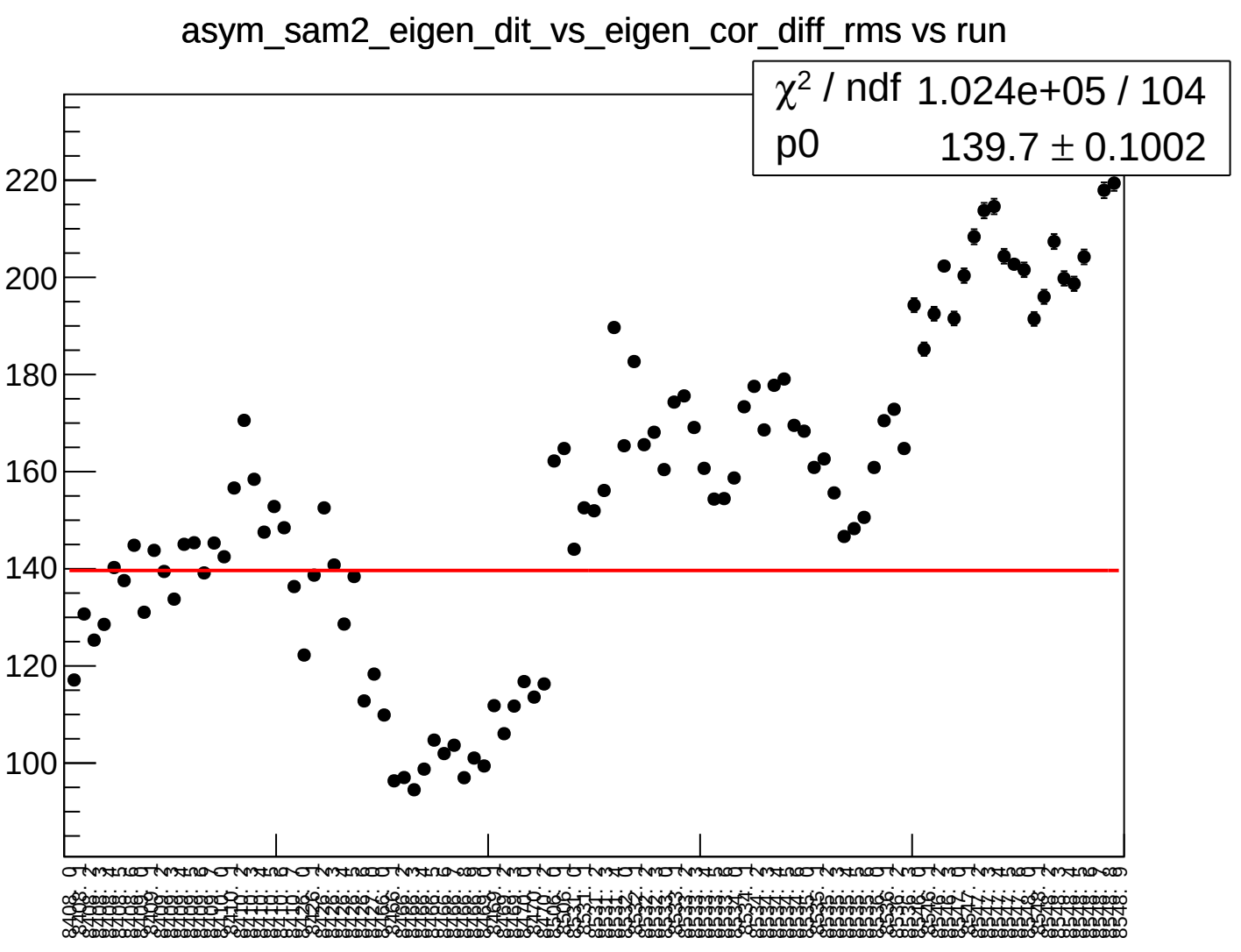

pull1D
Entries 105
Mean 0.002186
Std Dev 0.987
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

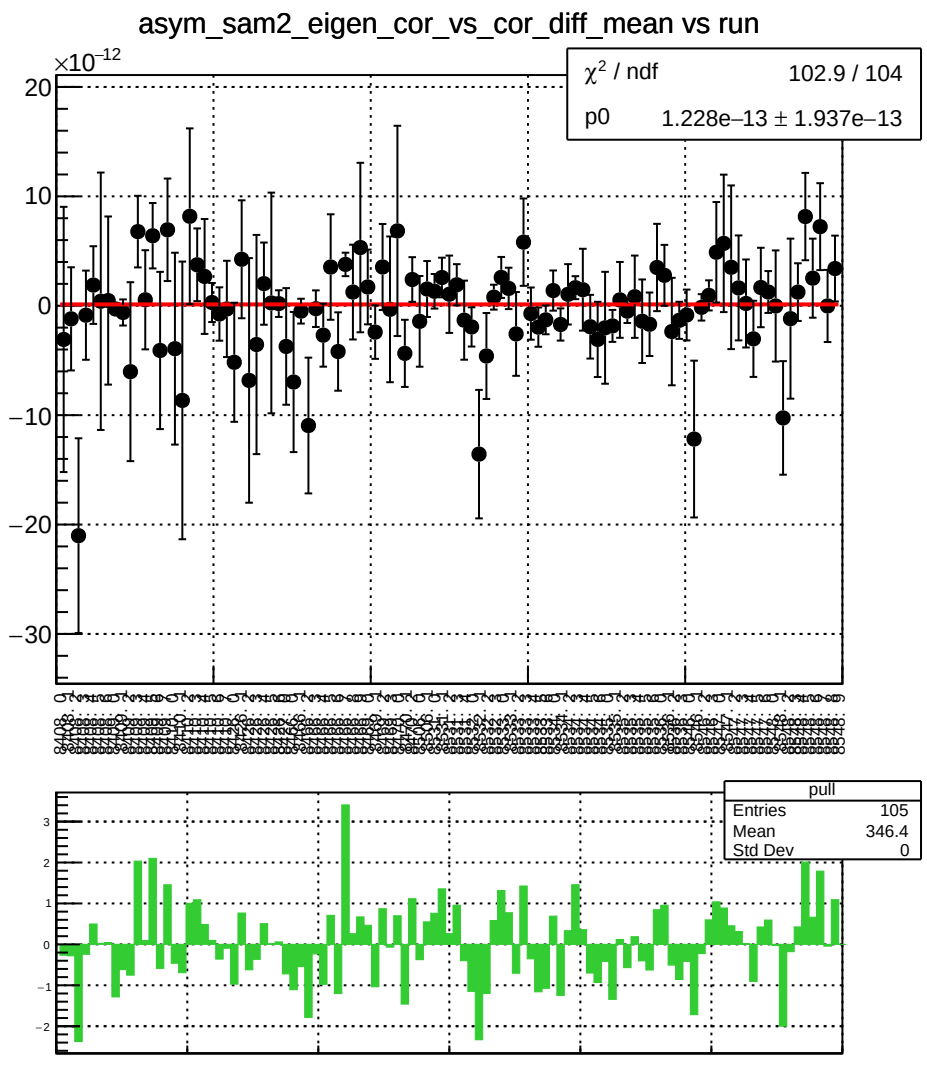

asym_sam2_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.481e+05 / 104
p0 0.004781 ± 3.669e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003

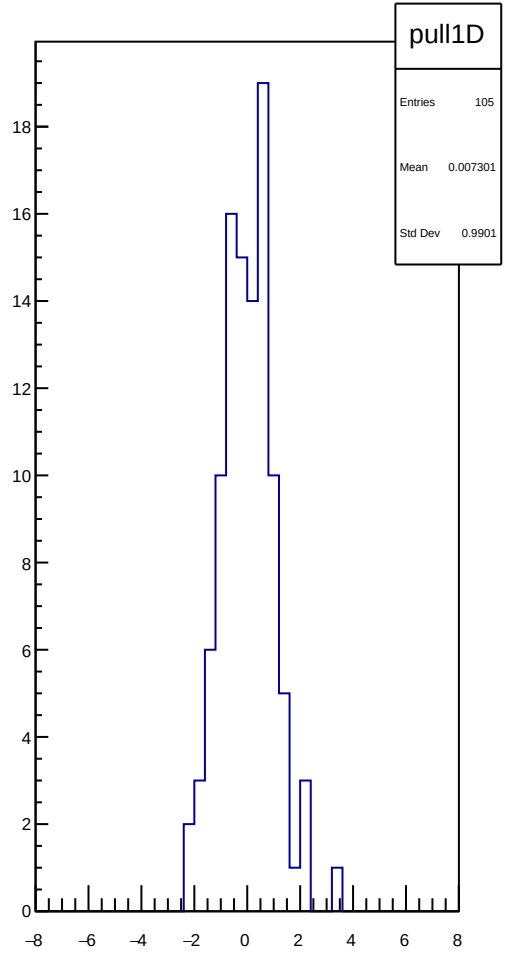

asym_sam2_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 109.8 / 104
p0 −0.1636 ± 0.1417
pull
Entries 105
Mean 198.7
Std Dev 0
pull1D
Entries 105
Mean −0.03583
Std Dev 1.022

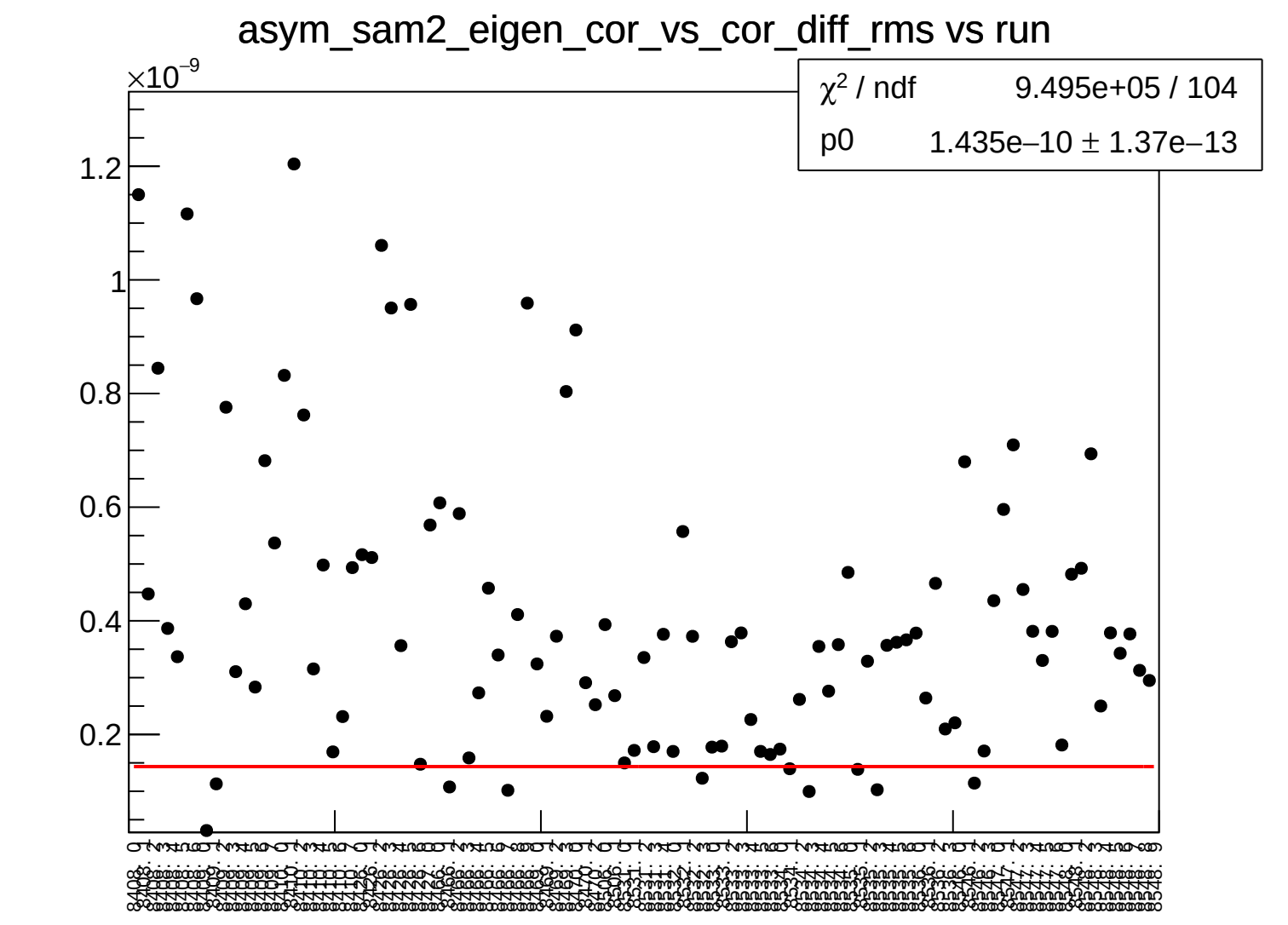

asym_sam2_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.024e+05 / 104
p0 139.7 ± 0.1002
220
200
180
160
140
120
100

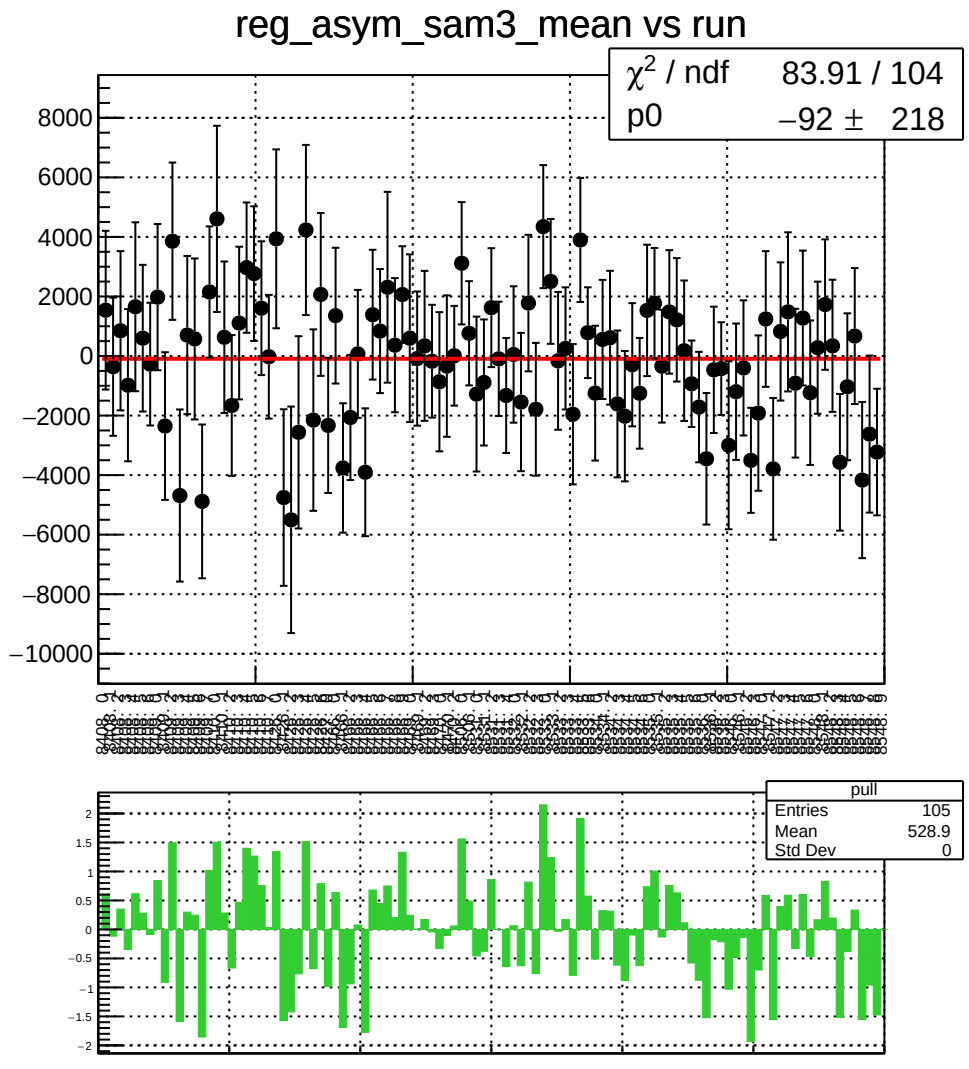

asym_sam2_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.8 / 104
p0 −0.1636 ± 0.1417
pull
Entries 105
Mean 198.7
Std Dev 0
pull1D
Entries 105
Mean −0.03583
Std Dev 1.022

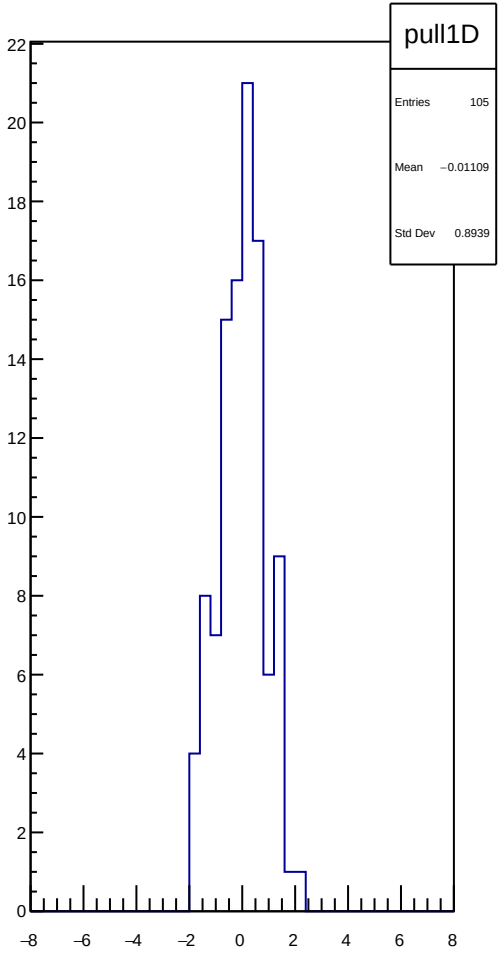

asym_sam2_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.024e+05 / 104
p0 139.7 ± 0.1002
220
200
180
160
140
120
100

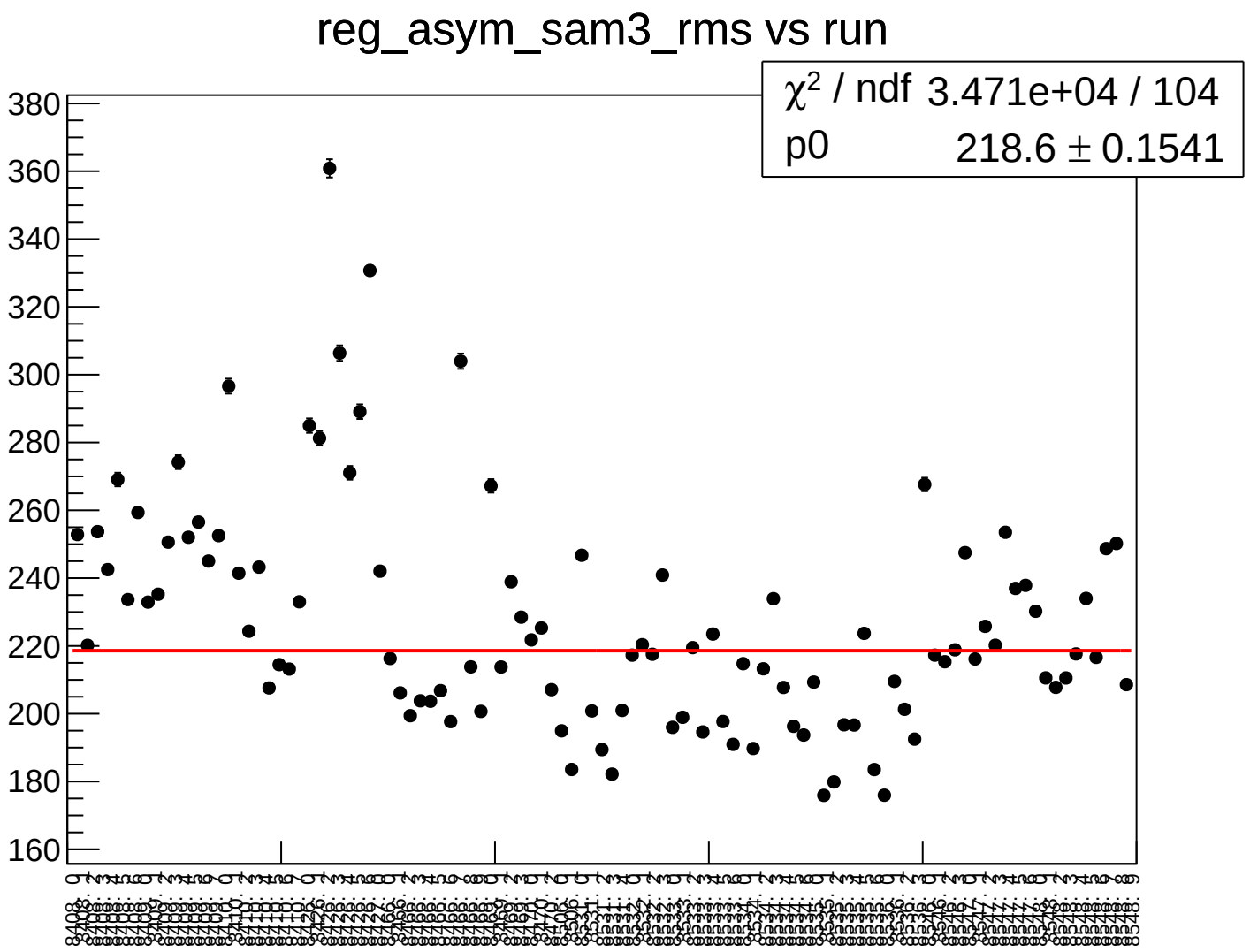

asym_sam2_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 102.9 / 104
p0 1.228e−13 ± 1.937e−13
20
10
0
−10
−20
−30
pull
Entries 105
Mean 346.4
Std Dev 0
3
2
1
0
−1
−2

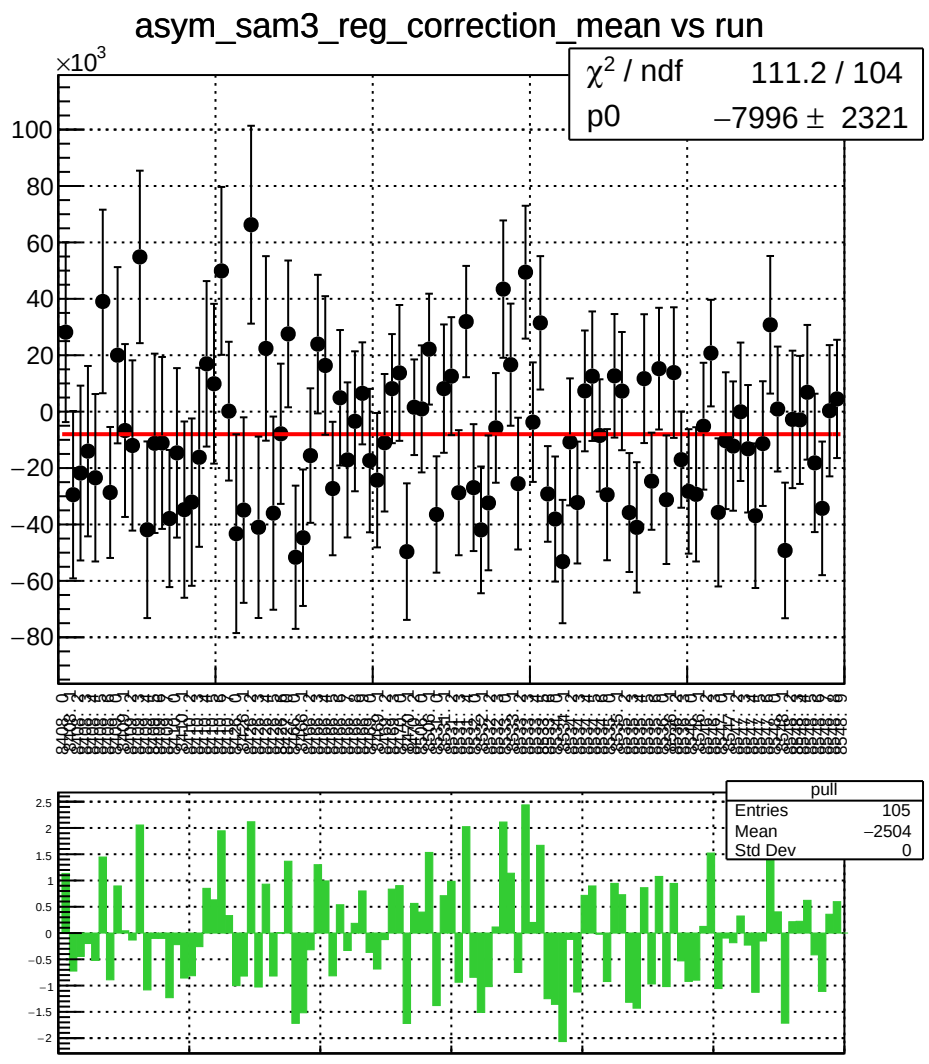

pull1D
Entries 105
Mean 0.007301
Std Dev 0.9901
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

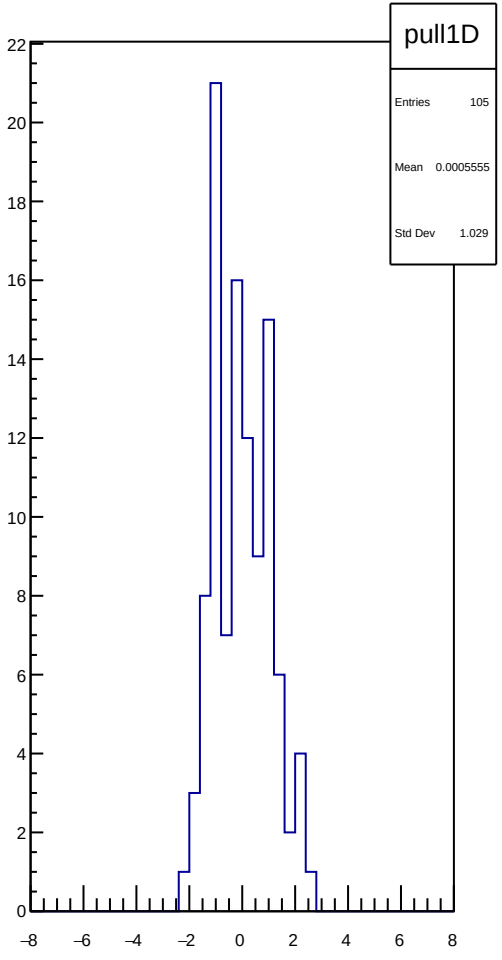

asym_sam2_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.495e+05 / 104
p0 1.435e−10 ± 1.37e−13
1.2
1
0.8
0.6
0.4
0.2

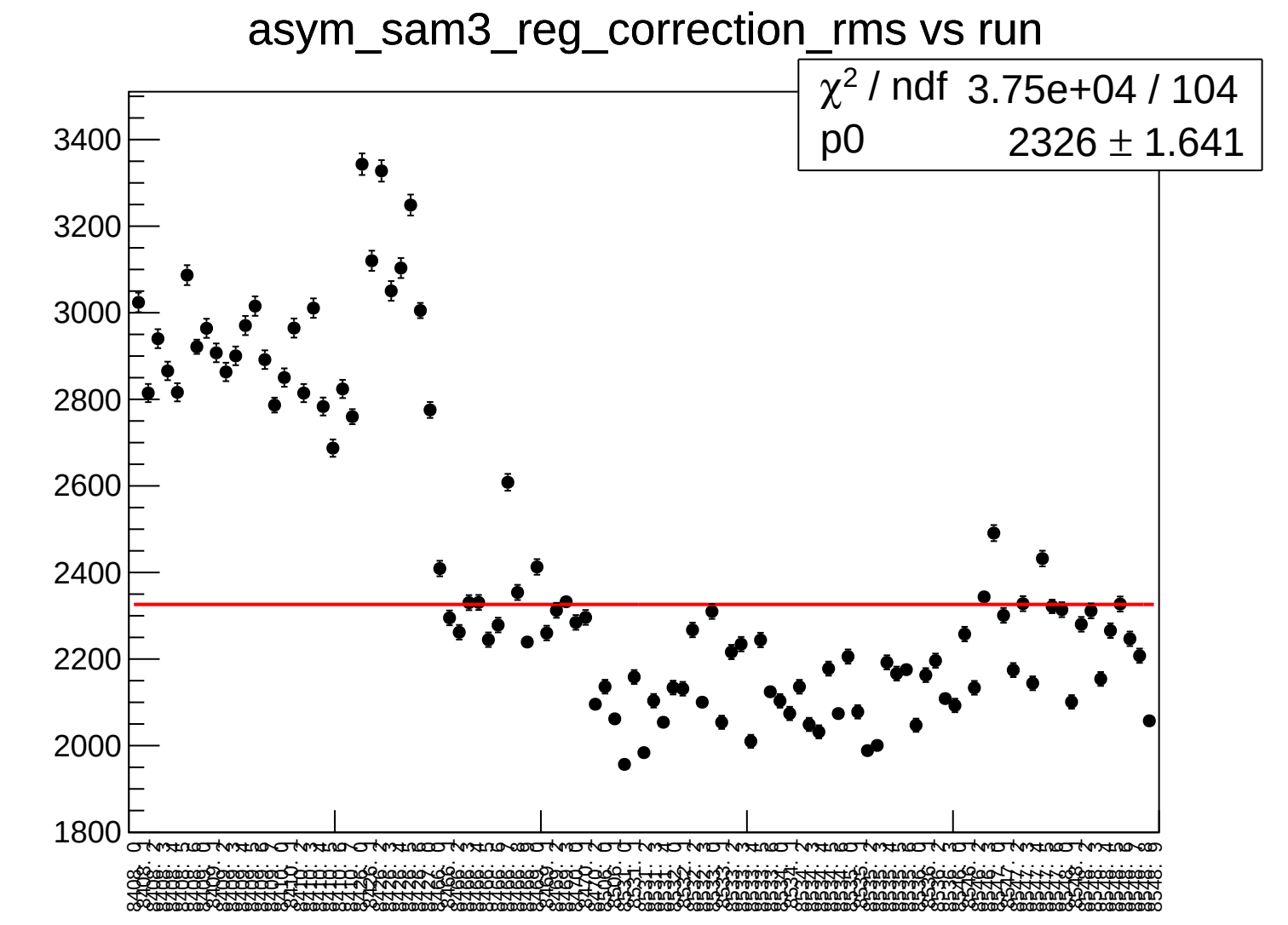

reg_asym_sam3_mean vs run
χ² / ndf 83.91 / 104
p0 −92 ± 218
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
pull
Entries 105
Mean 528.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

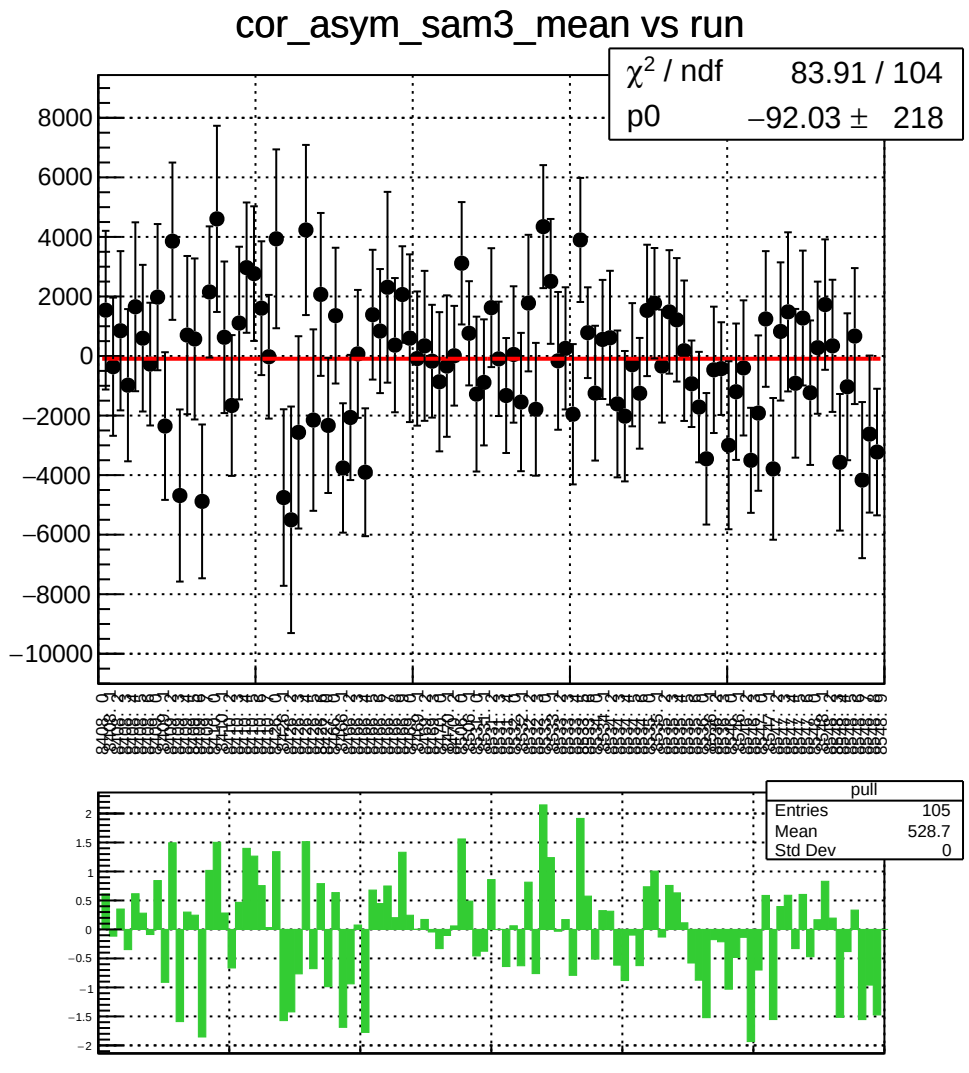

pull1D
Entries 105
Mean −0.01109
Std Dev 0.8939
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

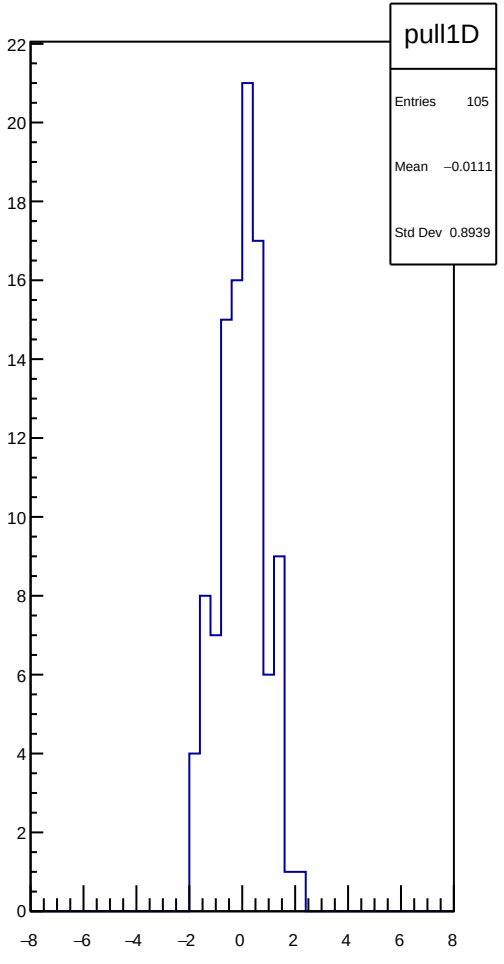

reg_asym_sam3_rms vs run
χ² / ndf 3.471e+04 / 104
p0 218.6 ± 0.1541
380
360
340
320
300
280
260
240
220
200
180
160

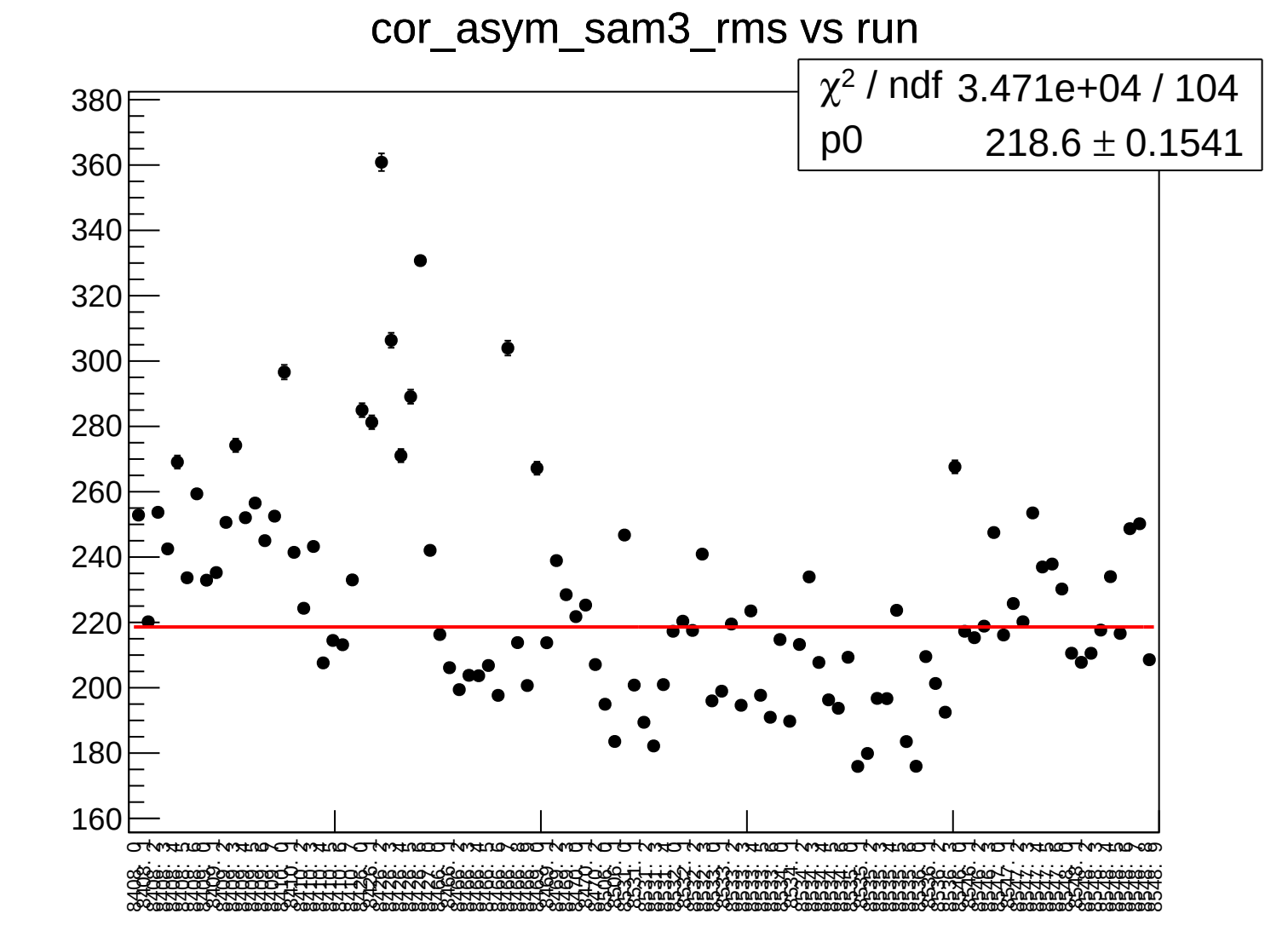

asym_sam3_reg_correction_mean vs run
×10^3
χ^2 / ndf 111.2 / 104
p0 −7996 ± 2321
100
80
60
40
20
0
−20
−40
−60
−80
pull
Entries 105
Mean −2504
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

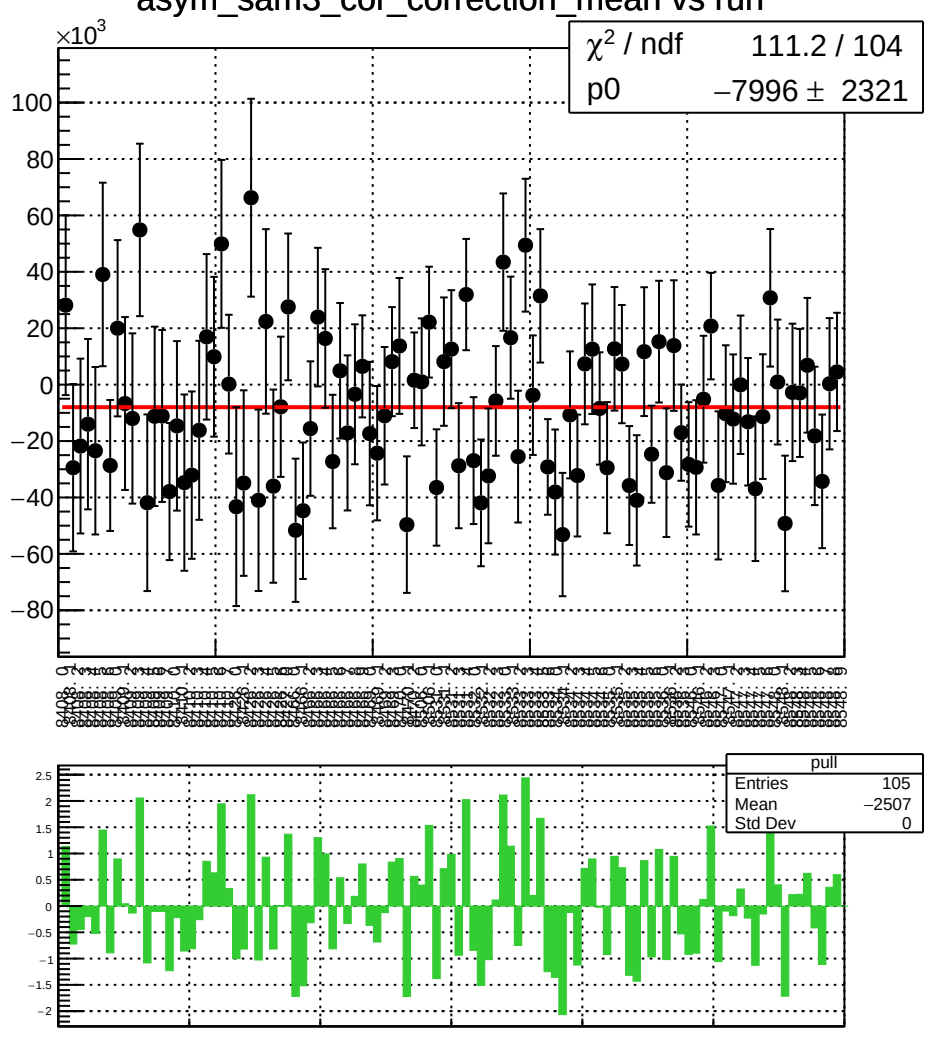

pull1D
Entries 105
Mean 0.0005555
Std Dev 1.029
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

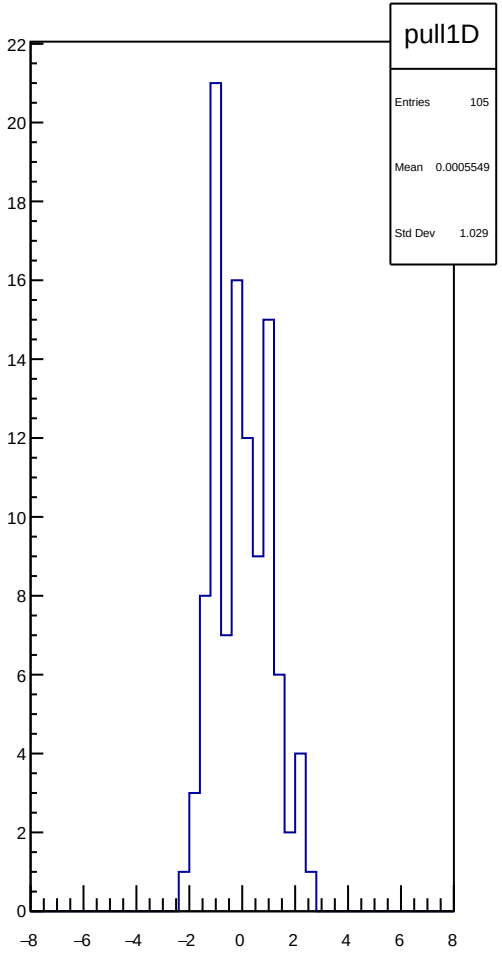

asym_sam3_reg_correction_rms vs run
χ^2 / ndf 3.75e+04 / 104
p0 2326 ± 1.641
3400
3200
3000
2800
2600
2400
2200
2000
1800

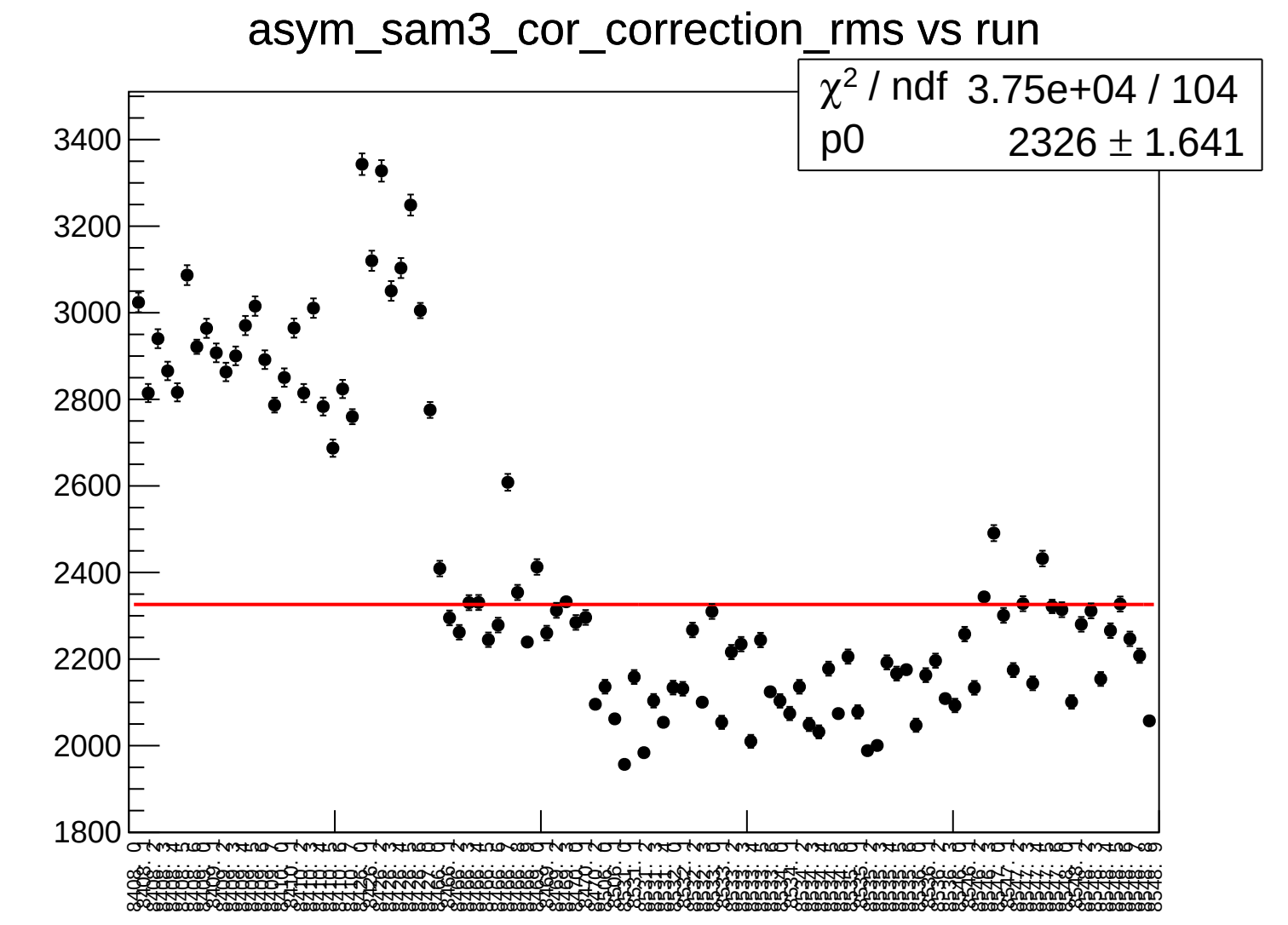

cor_asym_sam3_mean vs run
χ² / ndf 83.91 / 104
p0 −92.03 ± 218
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
pull
Entries 105
Mean 528.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

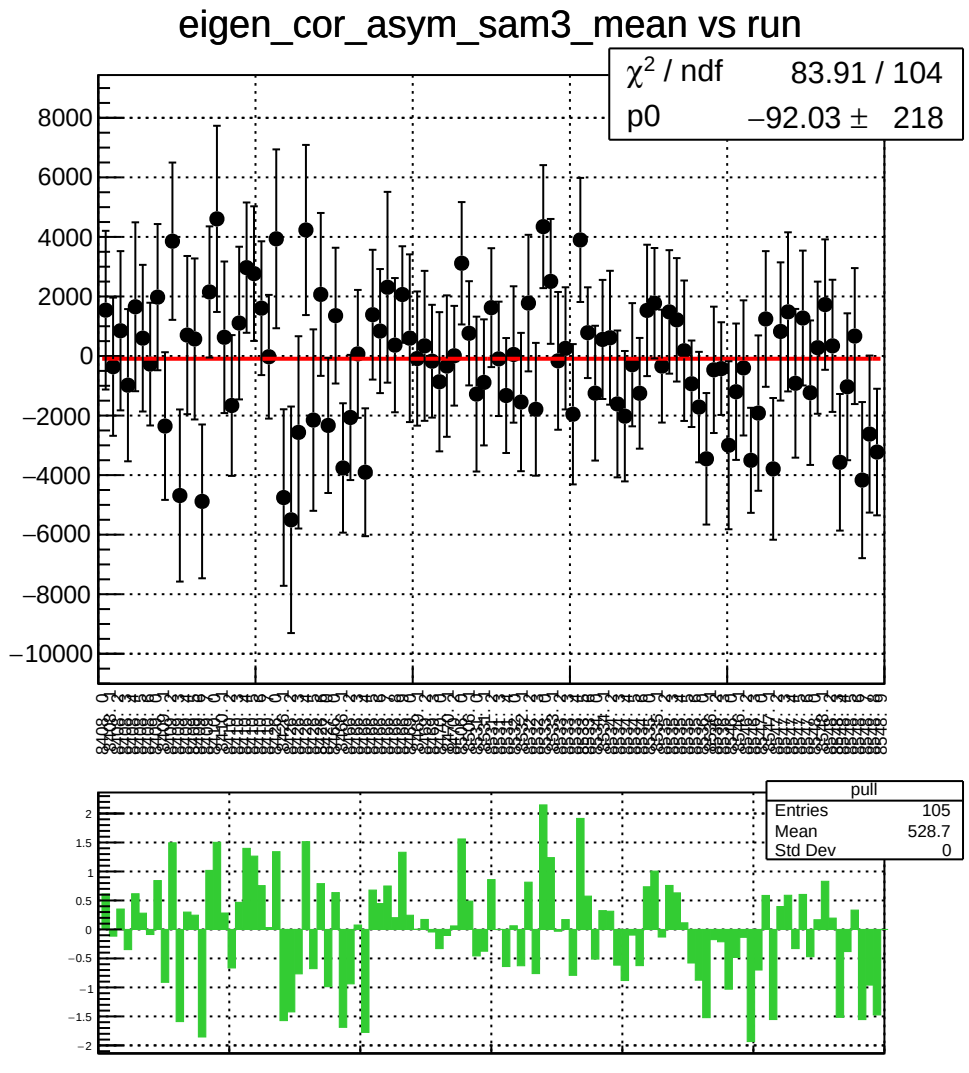

pull1D
Entries 105
Mean −0.0111
Std Dev 0.8939
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

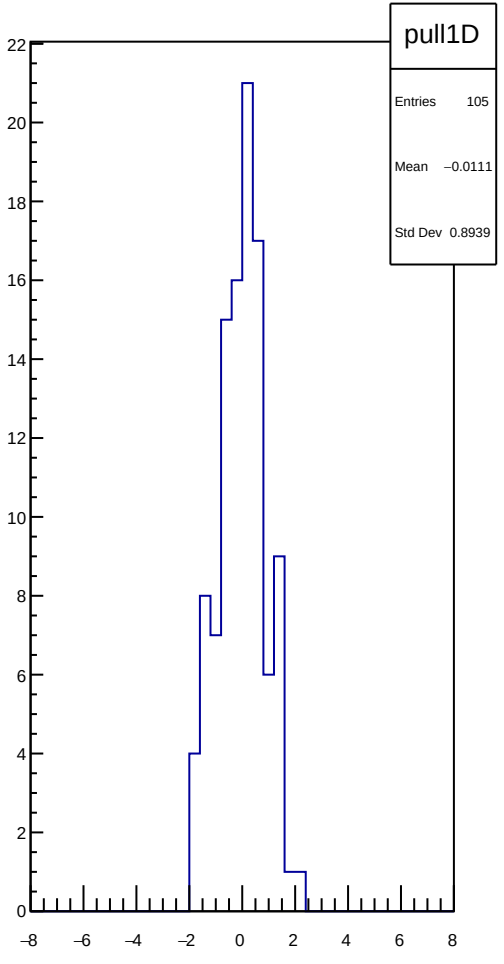

cor_asym_sam3_rms vs run
χ² / ndf 3.471e+04 / 104
p0 218.6 ± 0.1541
380
360
340
320
300
280
260
240
220
200
180
160

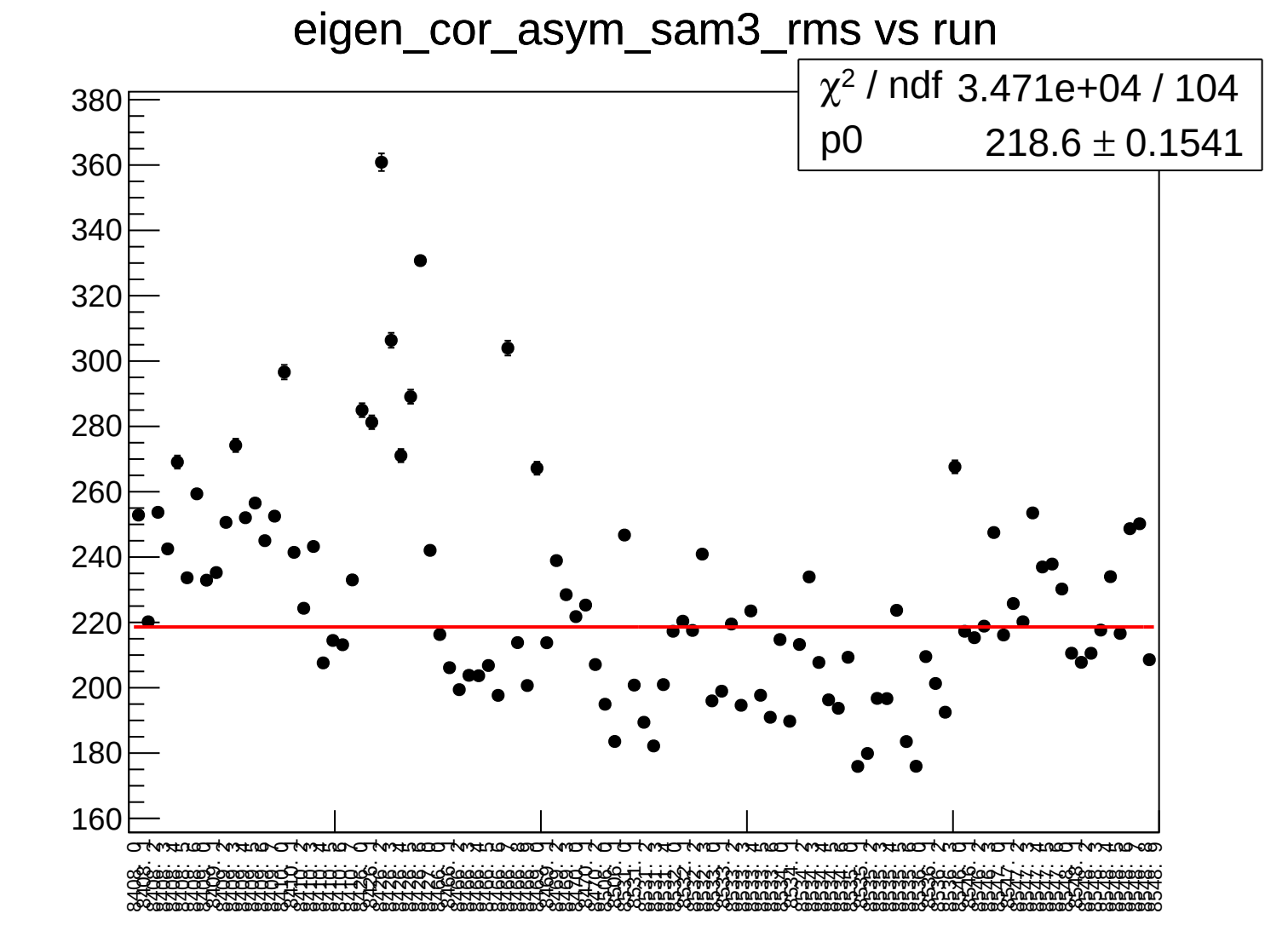

asym_sam3_cor_correction_mean vs run
×10^3
χ^2 / ndf 111.2 / 104
p0 −7996 ± 2321
pull
Entries 105
Mean −2507
Std Dev 0

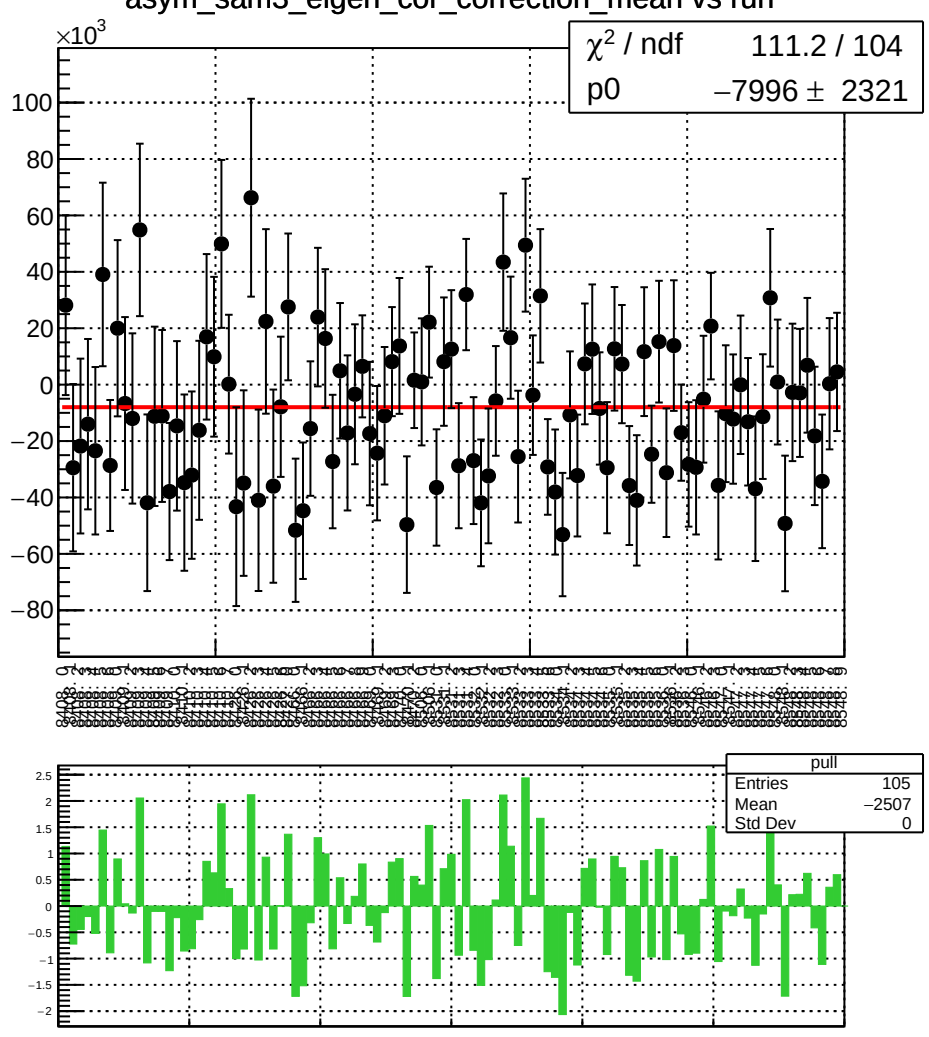

pull1D
Entries 105
Mean 0.0005549
Std Dev 1.029

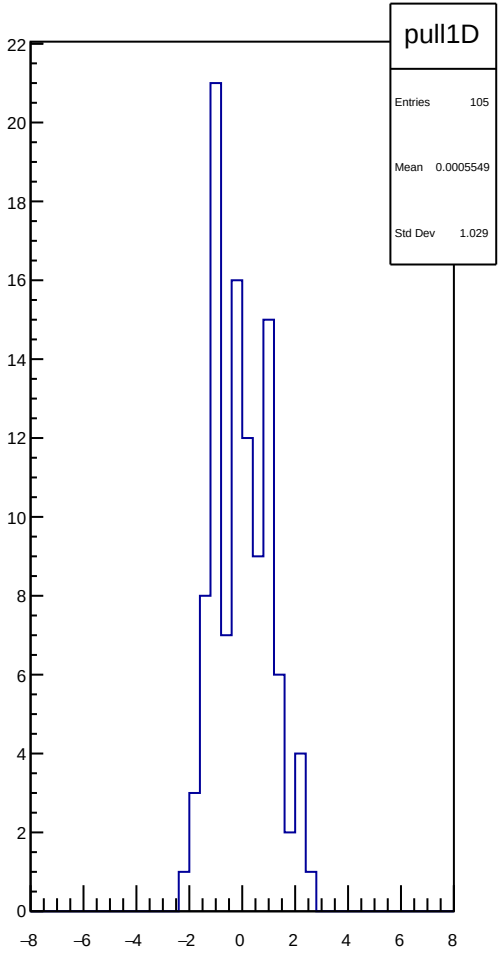

asym_sam3_cor_correction_rms vs run
χ^2 / ndf 3.75e+04 / 104
p0 2326 ± 1.641
3400
3200
3000
2800
2600
2400
2200
2000
1800

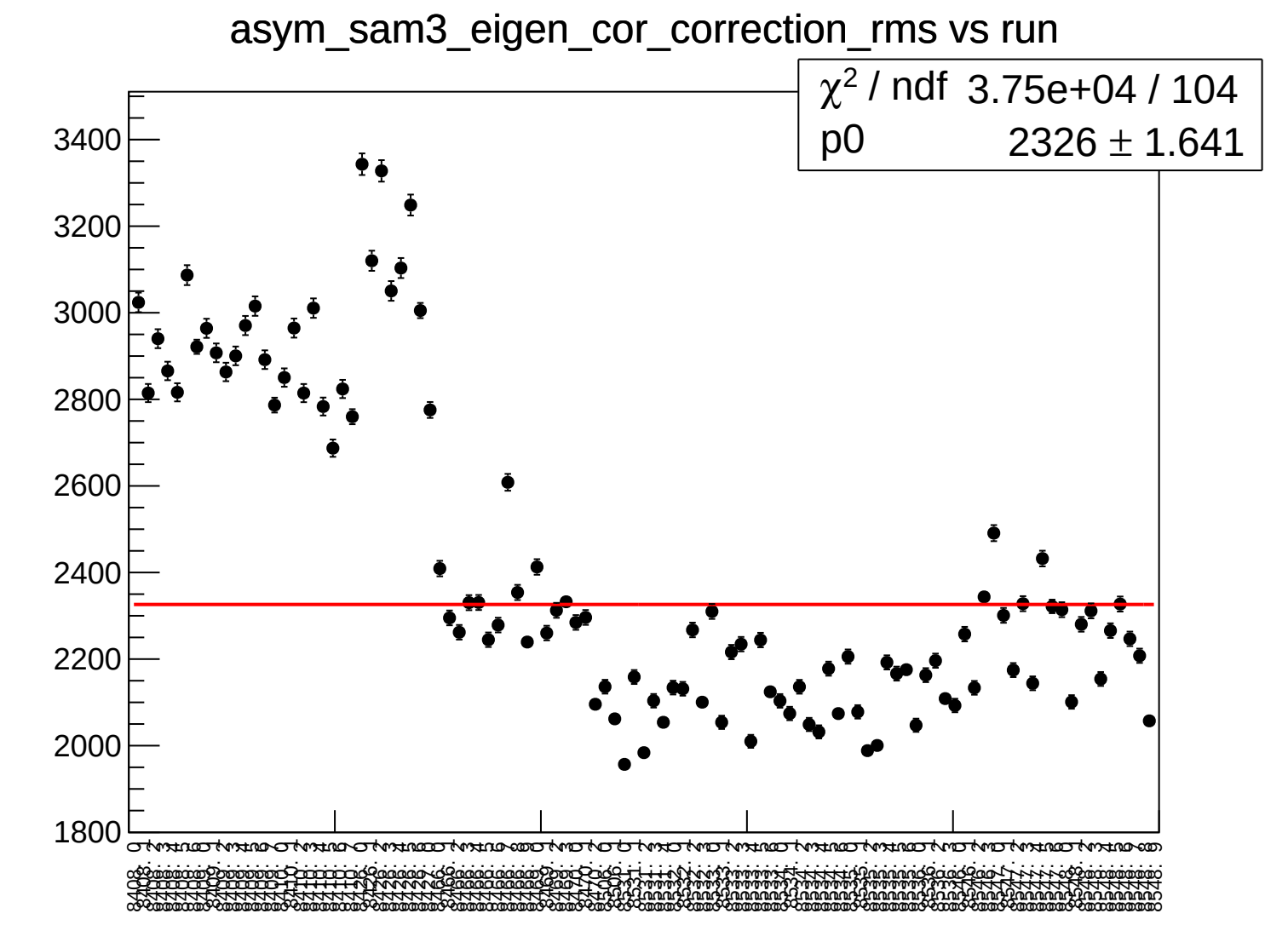

eigen_cor_asym_sam3_mean vs run
χ² / ndf 83.91 / 104
p0 −92.03 ± 218
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
pull
Entries 105
Mean 528.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

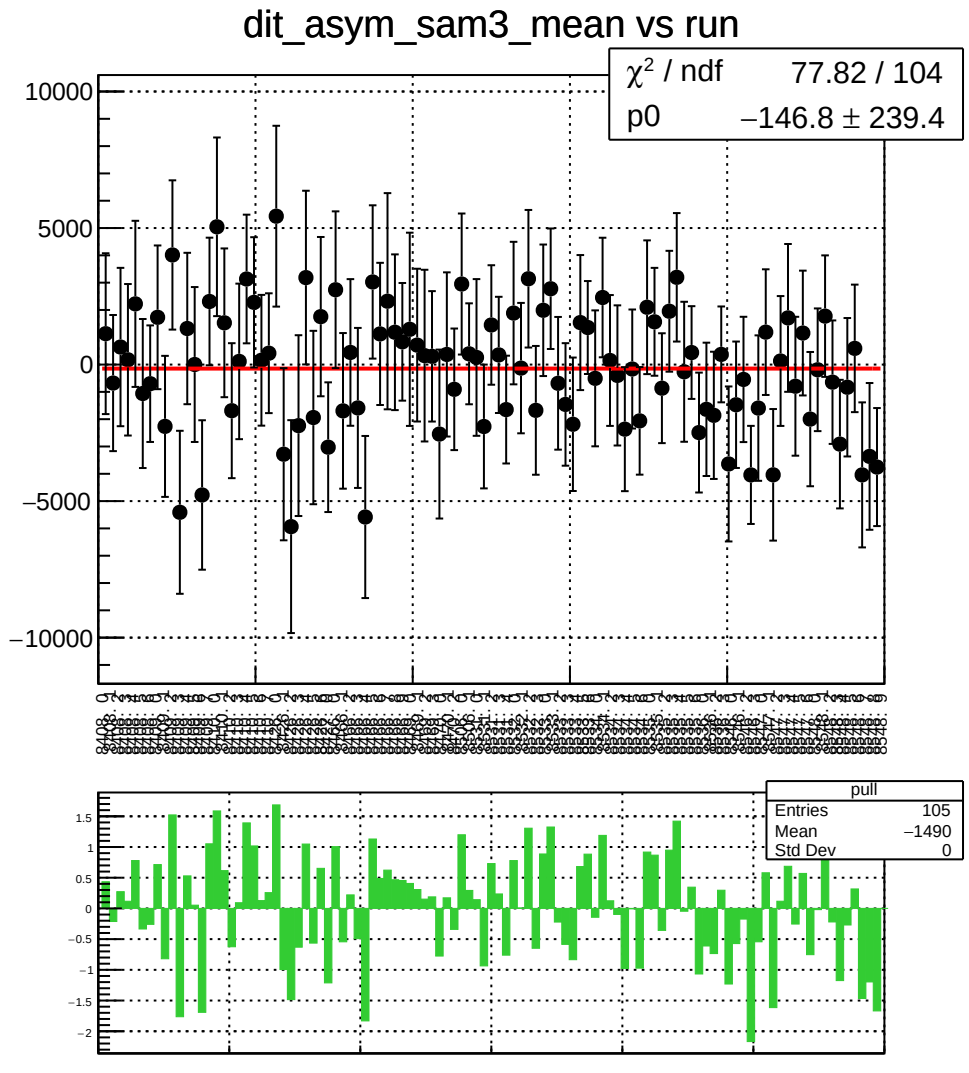

pull1D
Entries 105
Mean −0.0111
Std Dev 0.8939
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

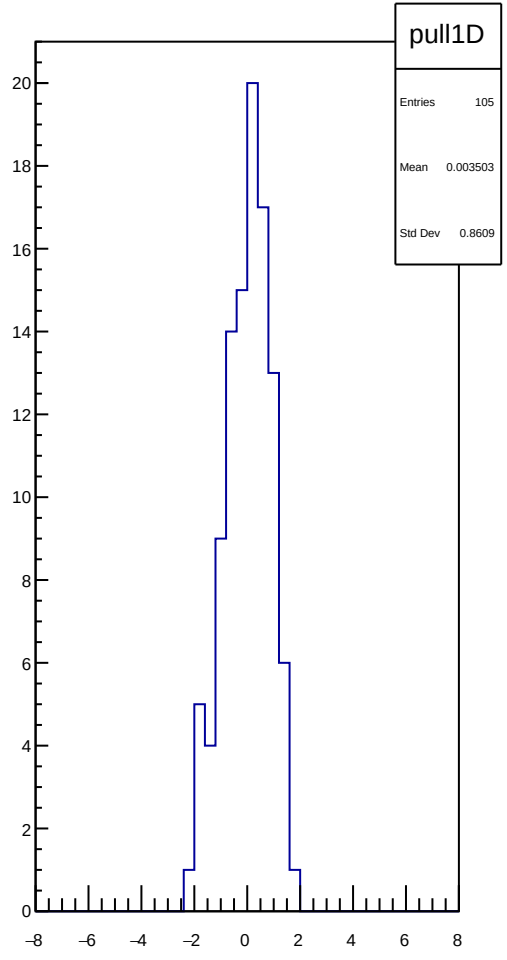

eigen_cor_asym_sam3_rms vs run
χ² / ndf 3.471e+04 / 104
p0 218.6 ± 0.1541
380
360
340
320
300
280
260
240
220
200
180
160

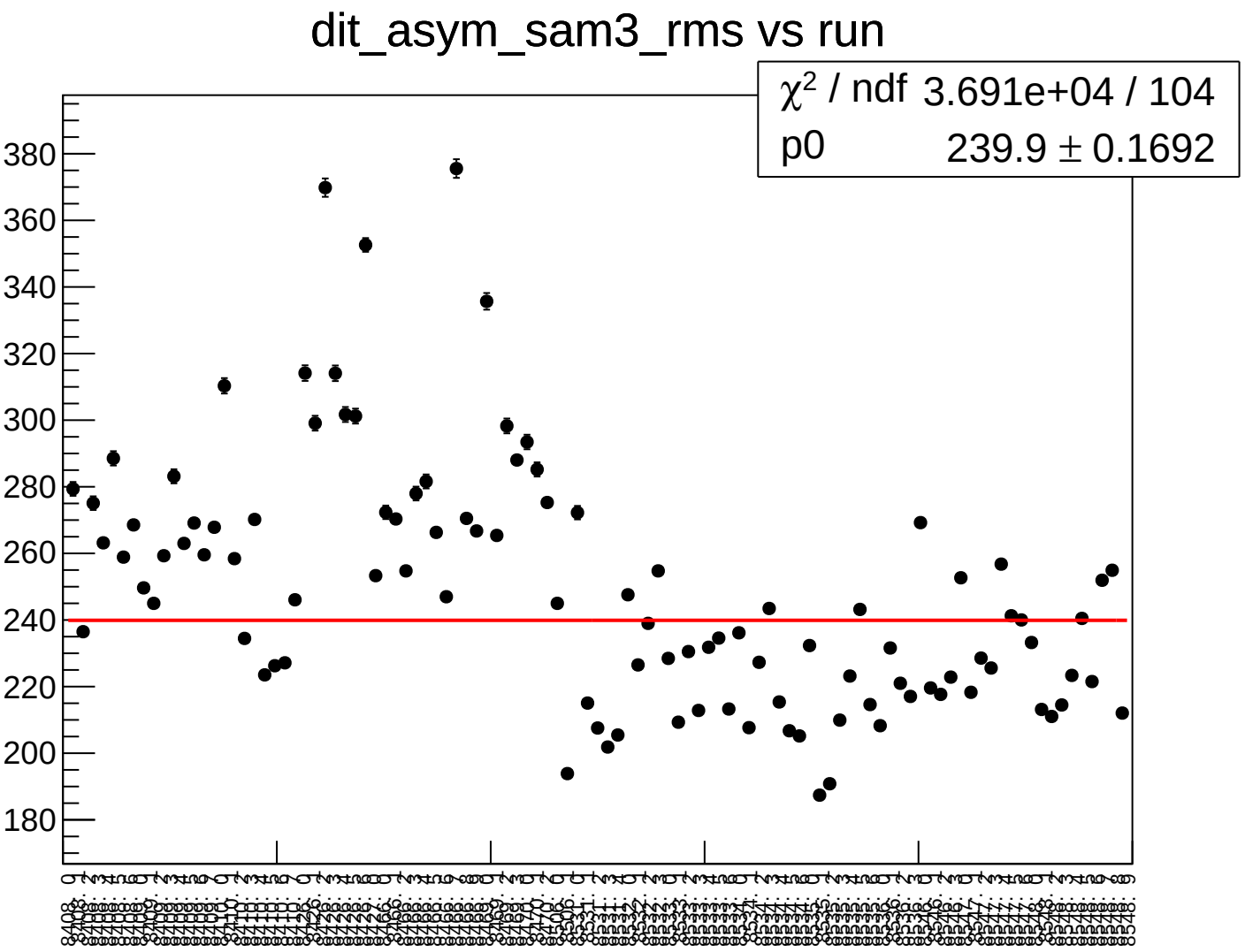

asym_sam3_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 111.2 / 104
p0 −7996 ± 2321
100
80
60
40
20
0
−20
−40
−60
−80
pull
Entries 105
Mean −2507
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

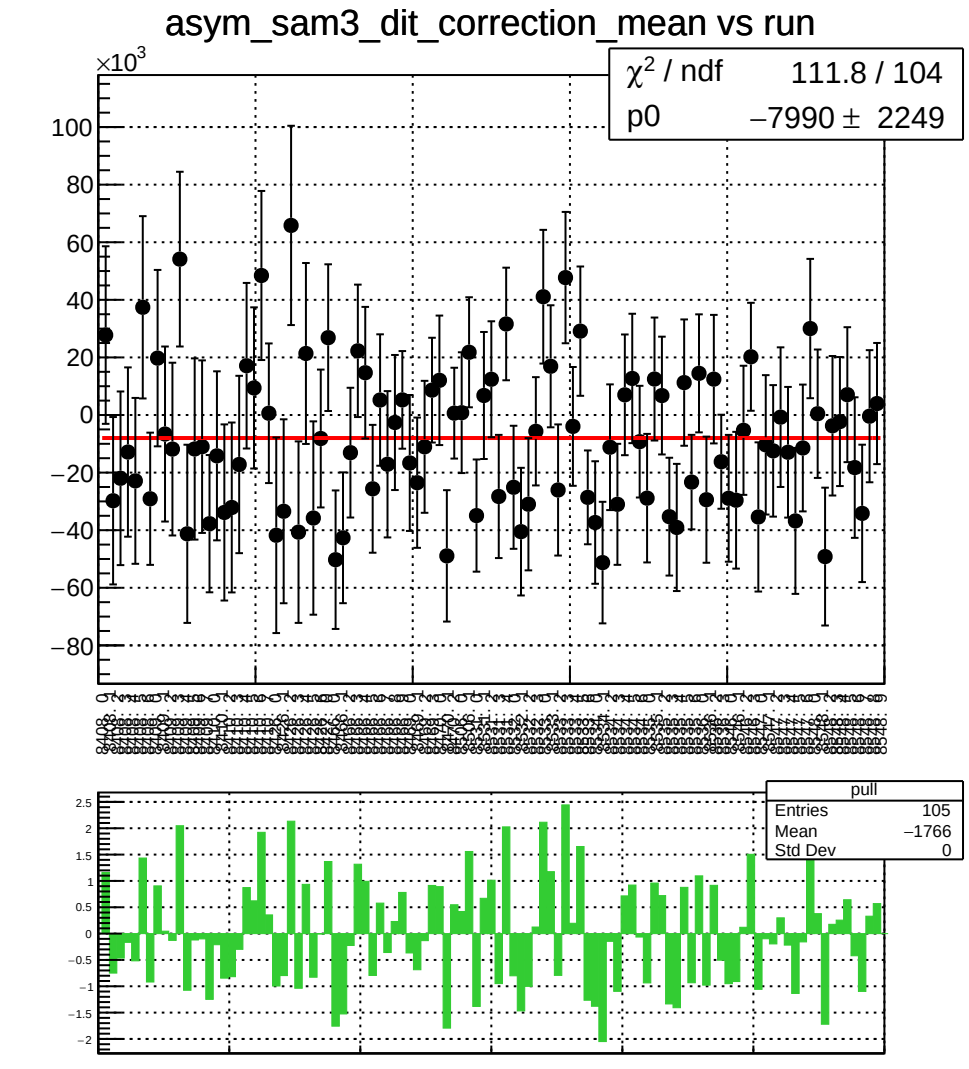

pull1D
Entries 105
Mean 0.0005549
Std Dev 1.029
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

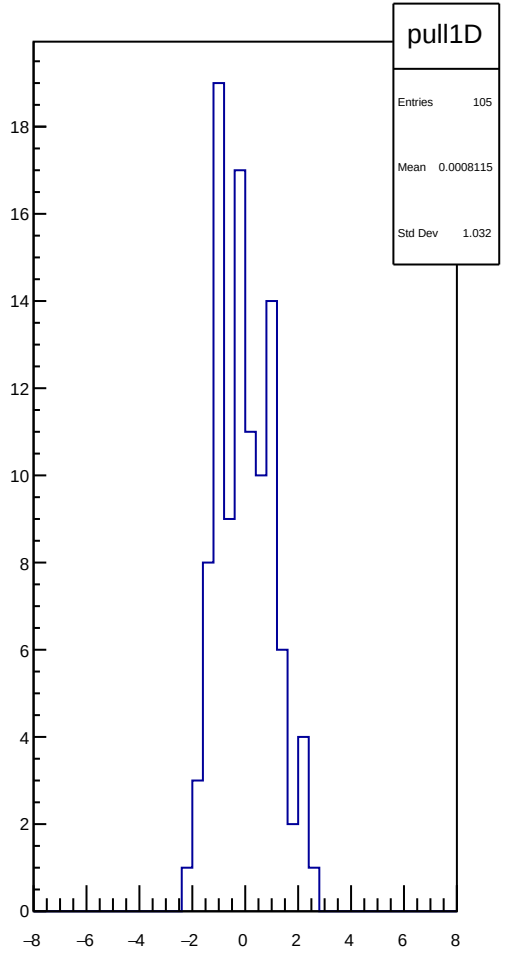

asym_sam3_eigen_cor_correction_rms vs run
χ² / ndf 3.75e+04 / 104
p0 2326 ± 1.641
3400
3200
3000
2800
2600
2400
2200
2000
1800


dit_asym_sam3_mean vs run
χ² / ndf 77.82 / 104
p0 −146.8 ± 239.4
10000
5000
0
−5000
−10000
pull
Entries 105
Mean −1490
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

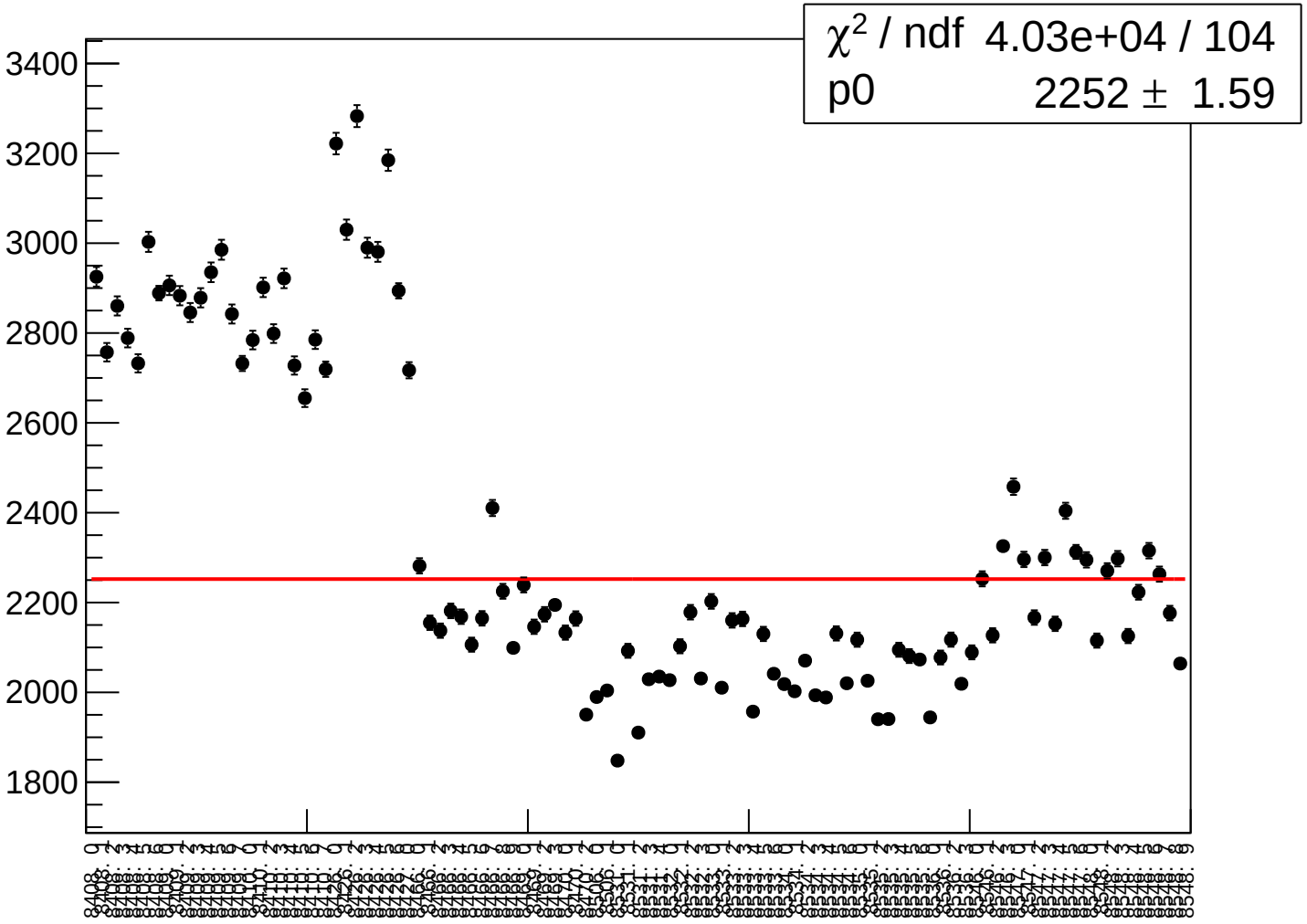

pull1D
Entries 105
Mean 0.003503
Std Dev 0.8609
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

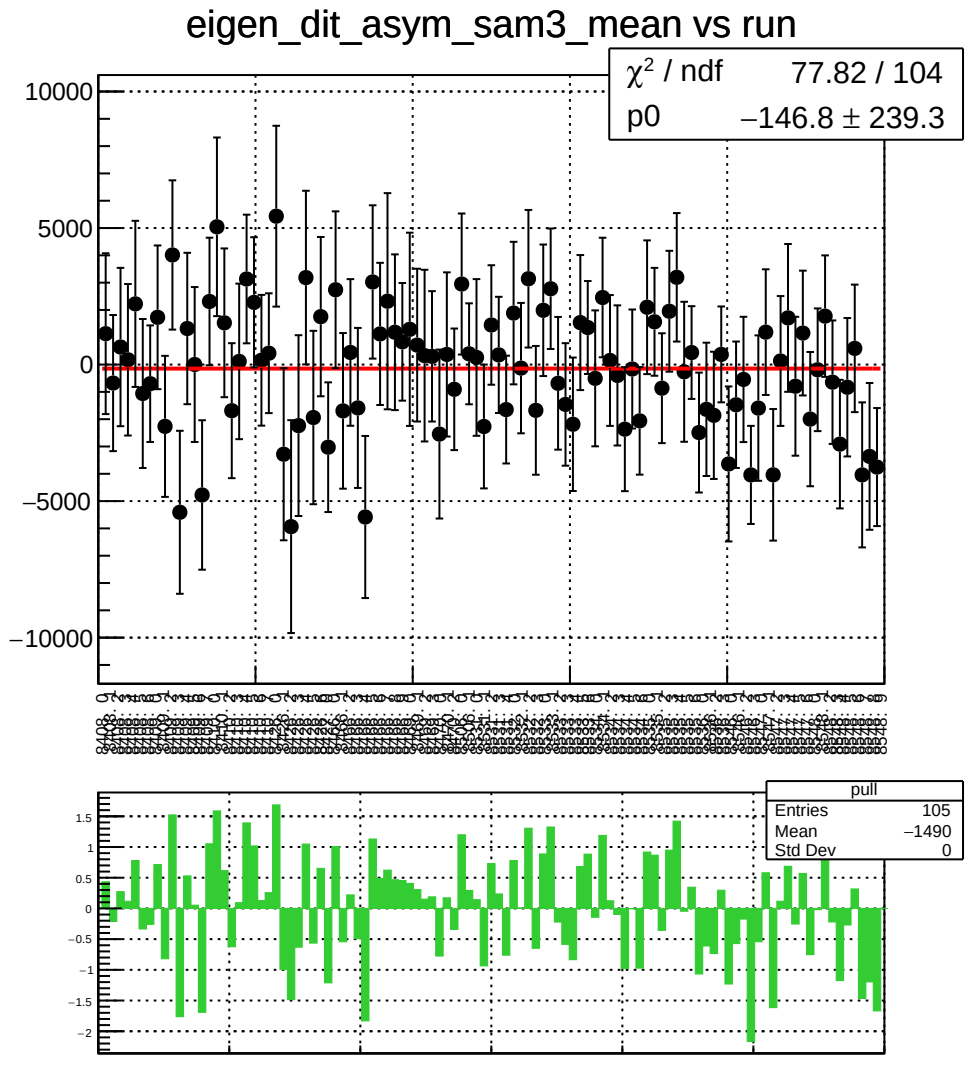

dit_asym_sam3_rms vs run
χ² / ndf 3.691e+04 / 104
p0 239.9 ± 0.1692
380
360
340
320
300
280
260
240
220
200
180

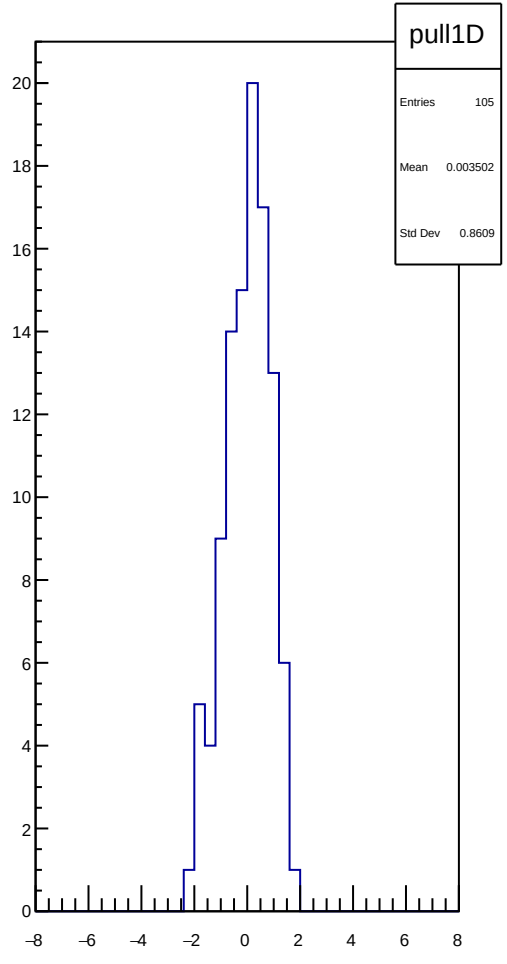

asym_sam3_dit_correction_mean vs run
×10^3
χ^2 / ndf 111.8 / 104
p0 −7990 ± 2249
100
80
60
40
20
0
−20
−40
−60
−80
pull
Entries 105
Mean −1766
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

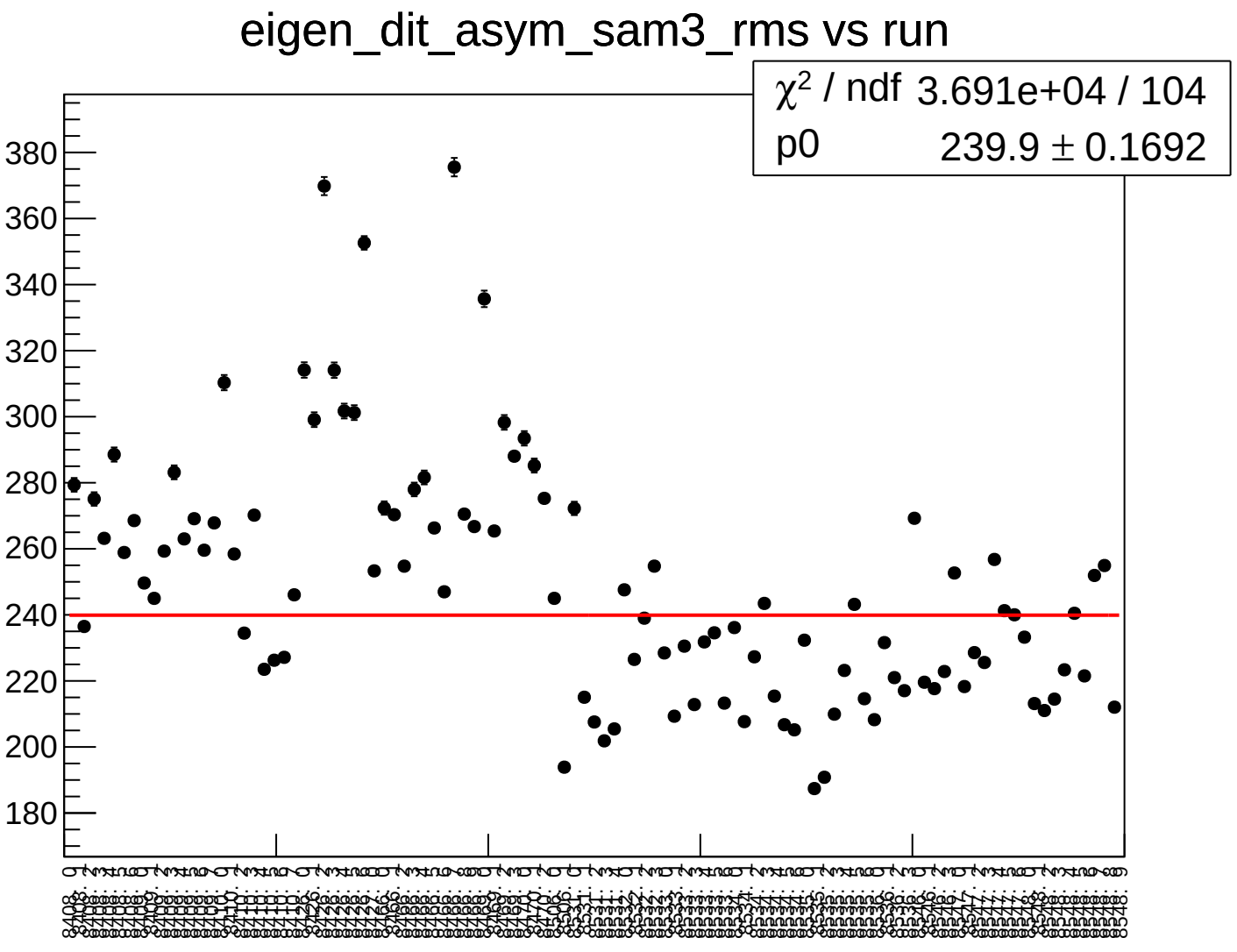

pull1D
Entries 105
Mean 0.0008115
Std Dev 1.032
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

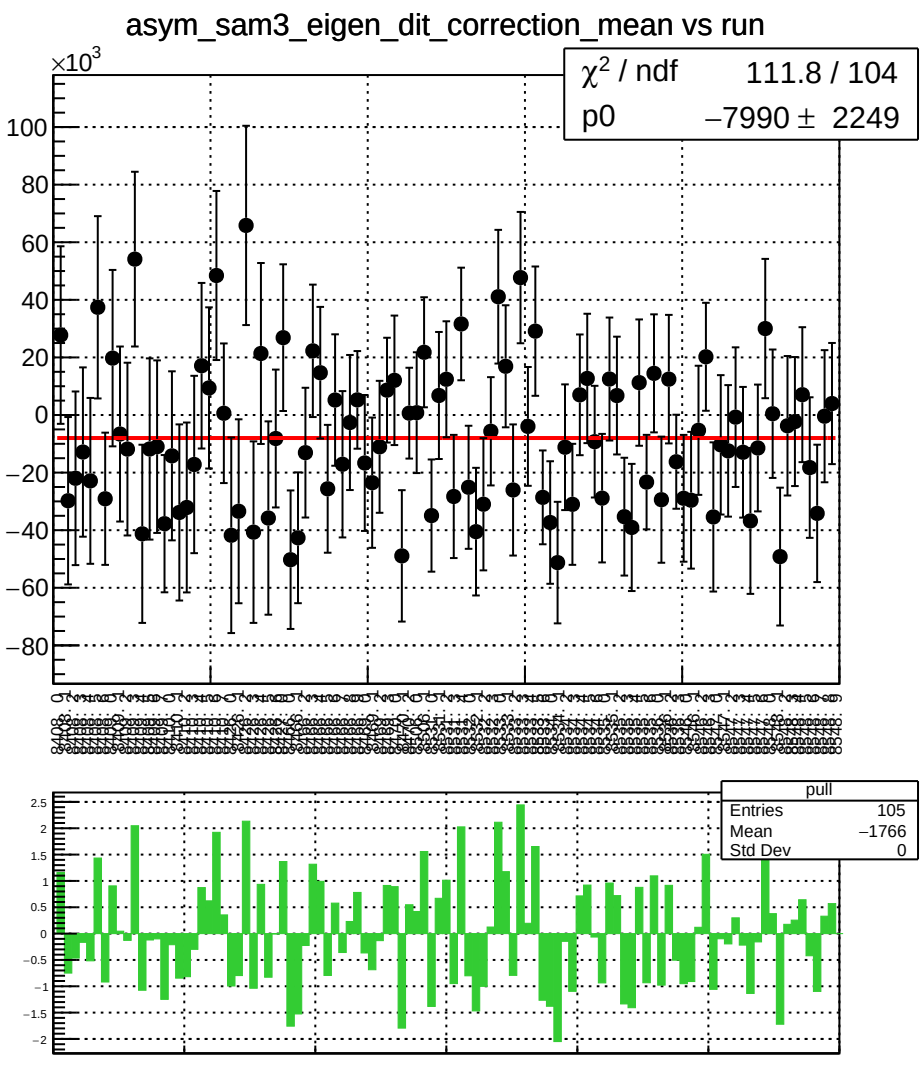
asym_sam3_dit_correction_rms vs run

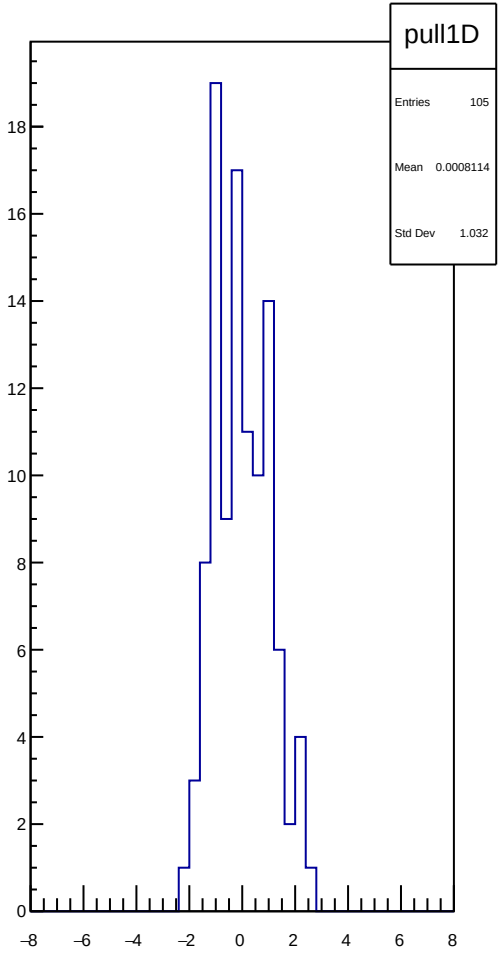


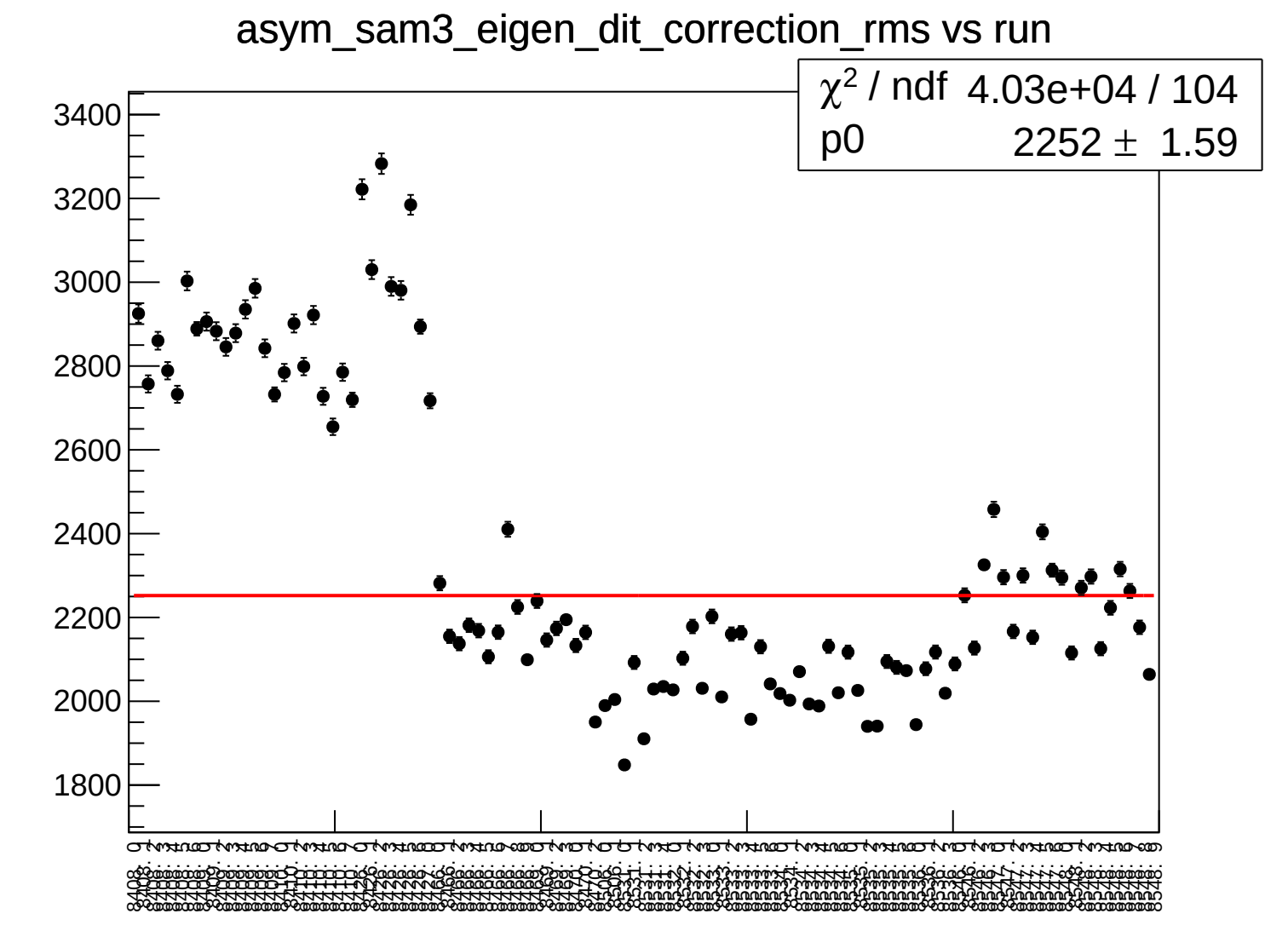

eigen_dit_asym_sam3_mean vs run
χ² / ndf 77.82 / 104
p0 −146.8 ± 239.3
10000
5000
0
−5000
−10000
pull
Entries 105
Mean −1490
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

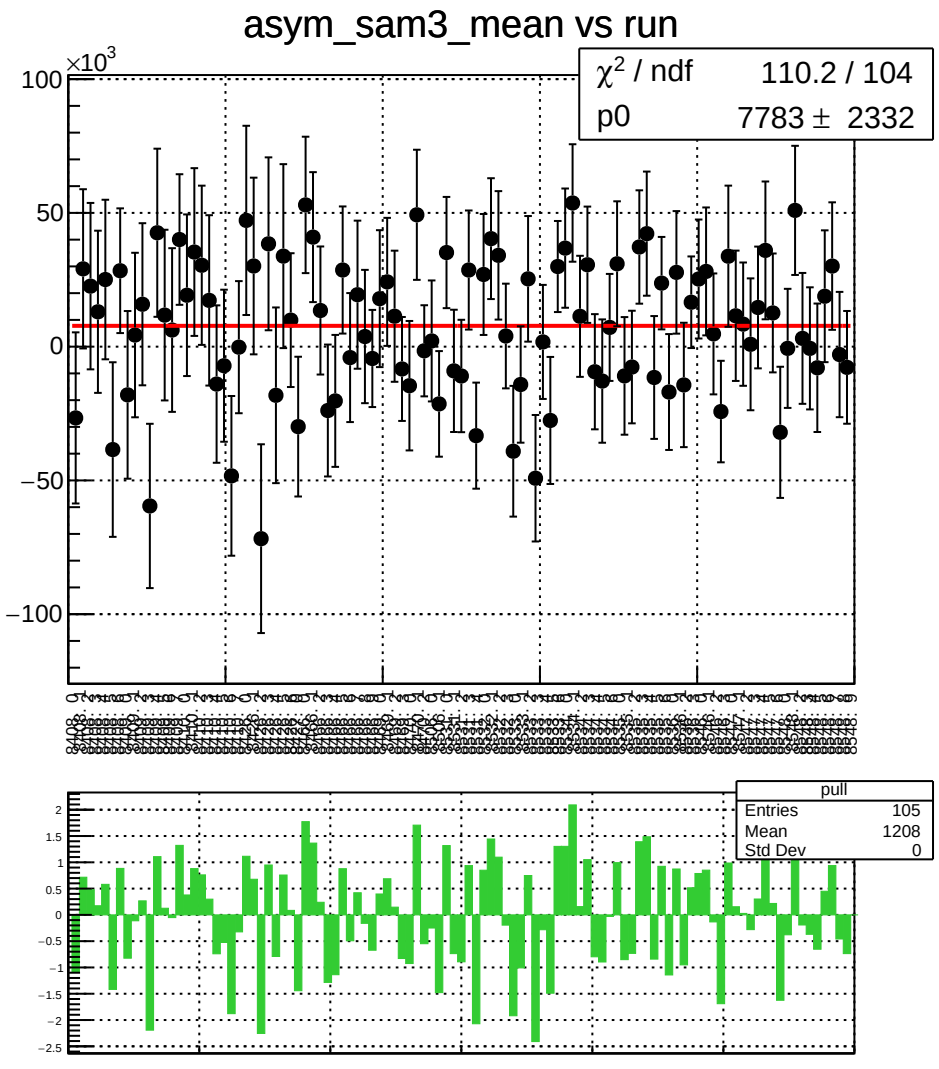

pull1D
Entries 105
Mean 0.003502
Std Dev 0.8609
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

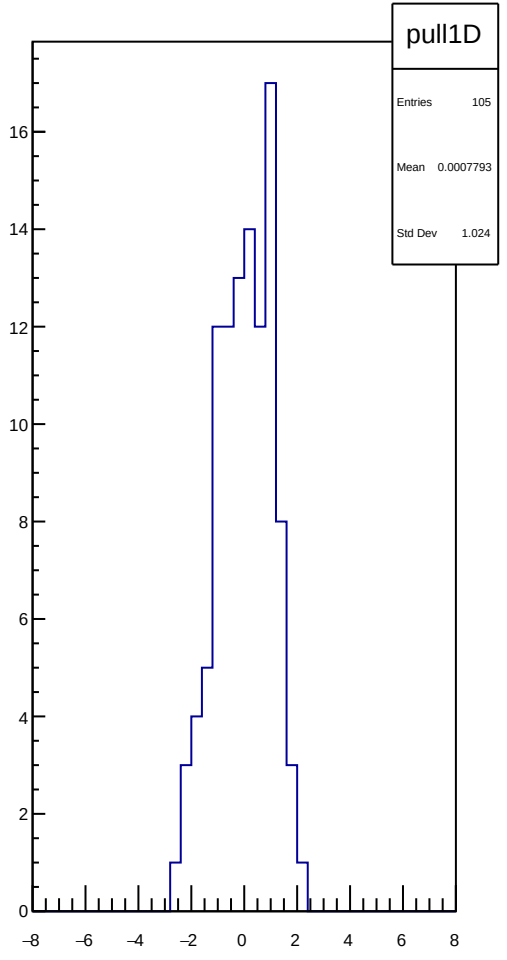

eigen_dit_asym_sam3_rms vs run
χ² / ndf 3.691e+04 / 104
p0 239.9 ± 0.1692
380
360
340
320
300
280
260
240
220
200
180

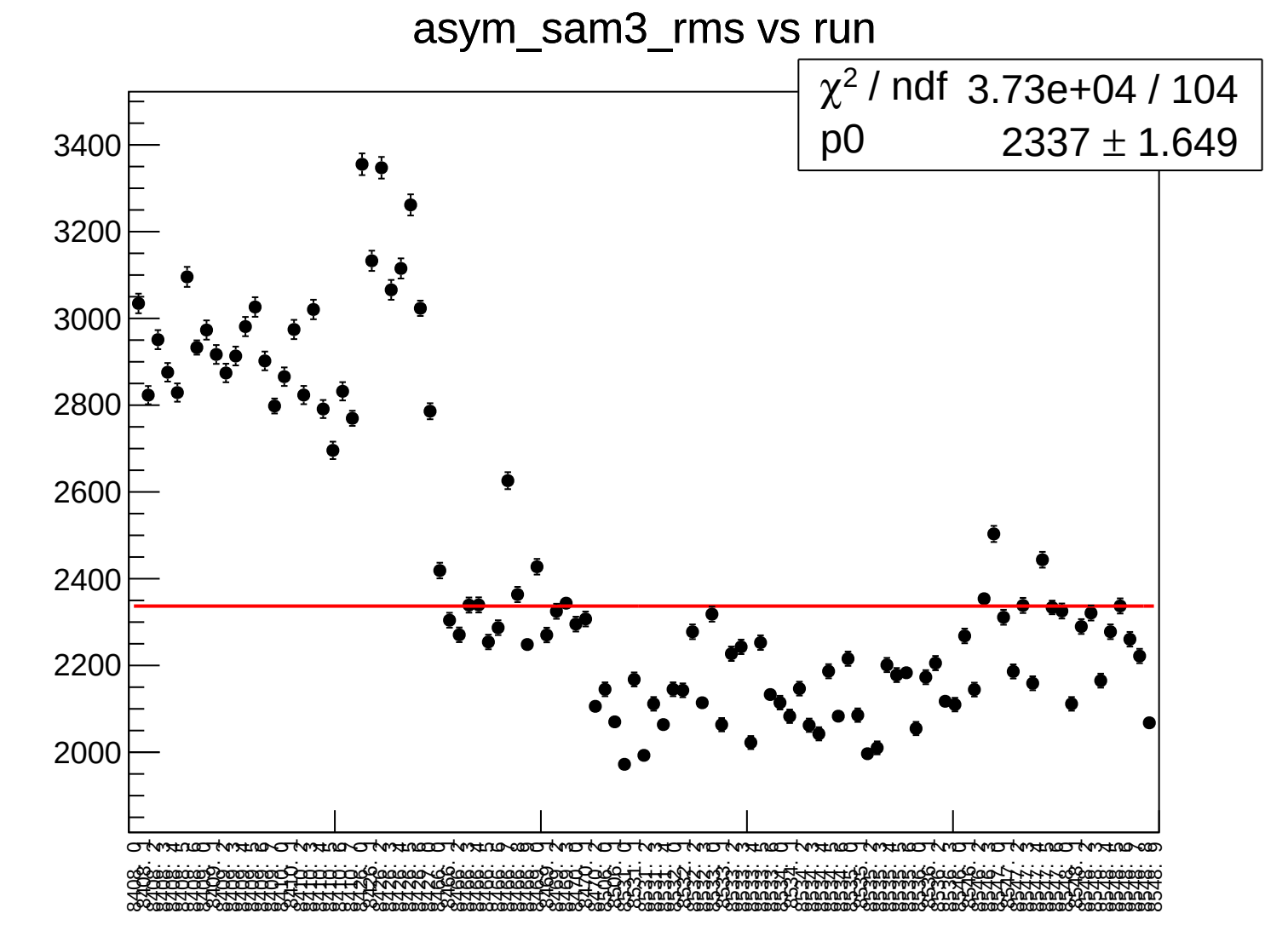

asym_sam3_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 111.8 / 104
p0 −7990 ± 2249
100
80
60
40
20
0
−20
−40
−60
−80
pull
Entries 105
Mean −1766
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

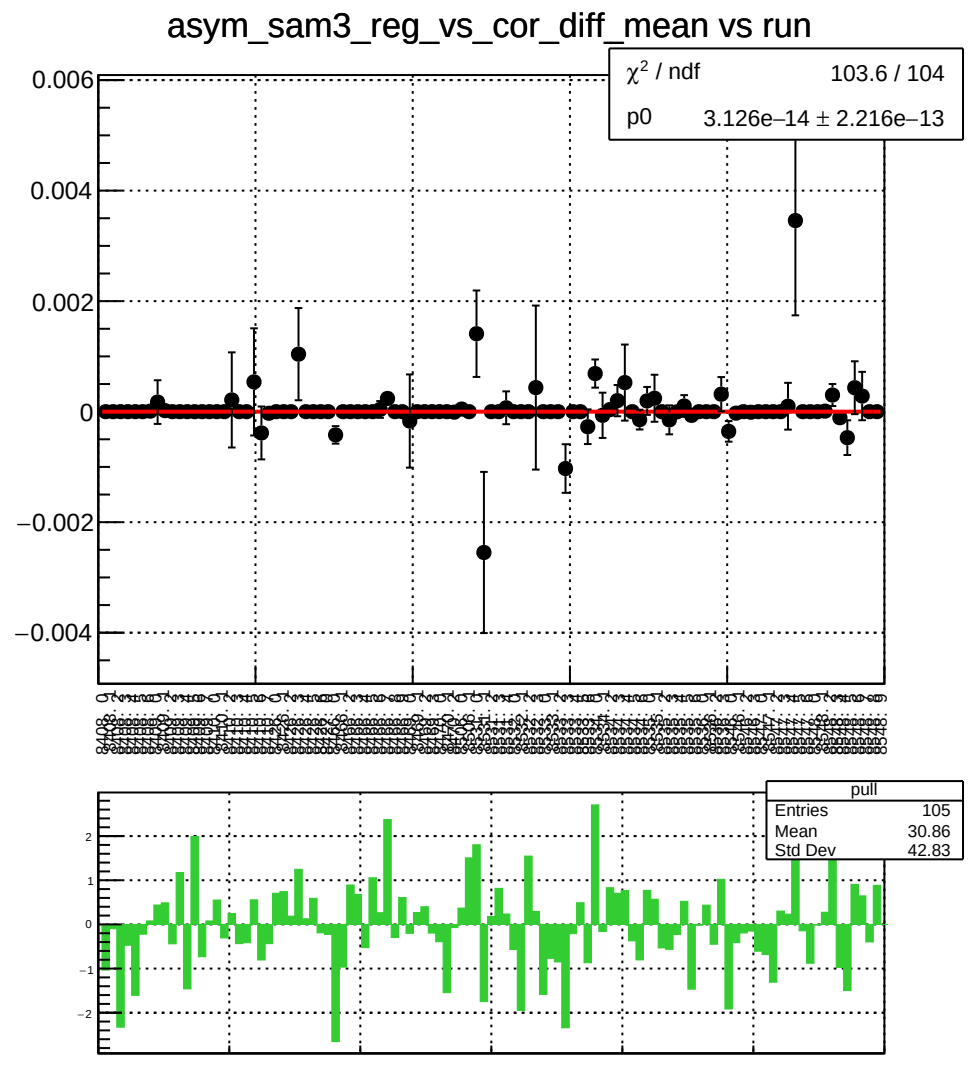

pull1D
Entries 105
Mean 0.0008114
Std Dev 1.032
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

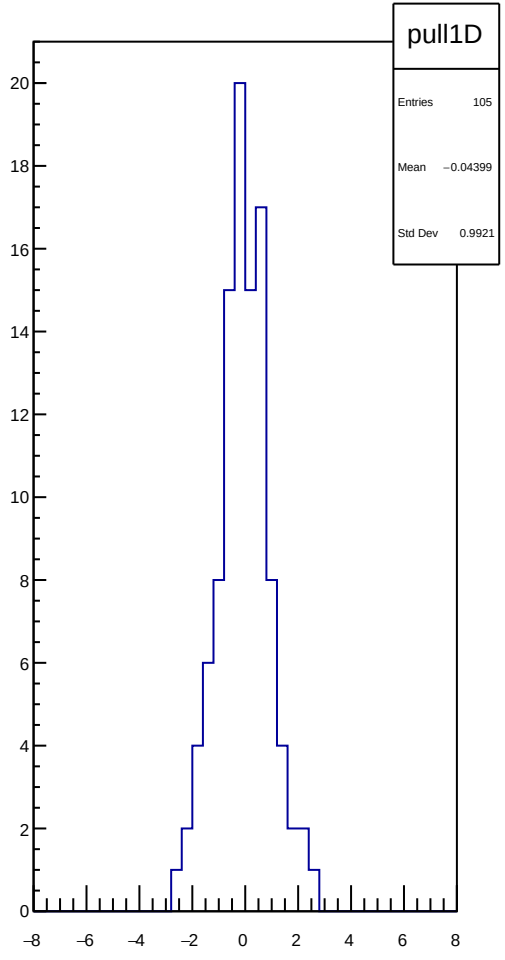

asym_sam3_eigen_dit_correction_rms vs run
χ² / ndf 4.03e+04 / 104
p0 2252 ± 1.59
3400
3200
3000
2800
2600
2400
2200
2000
1800

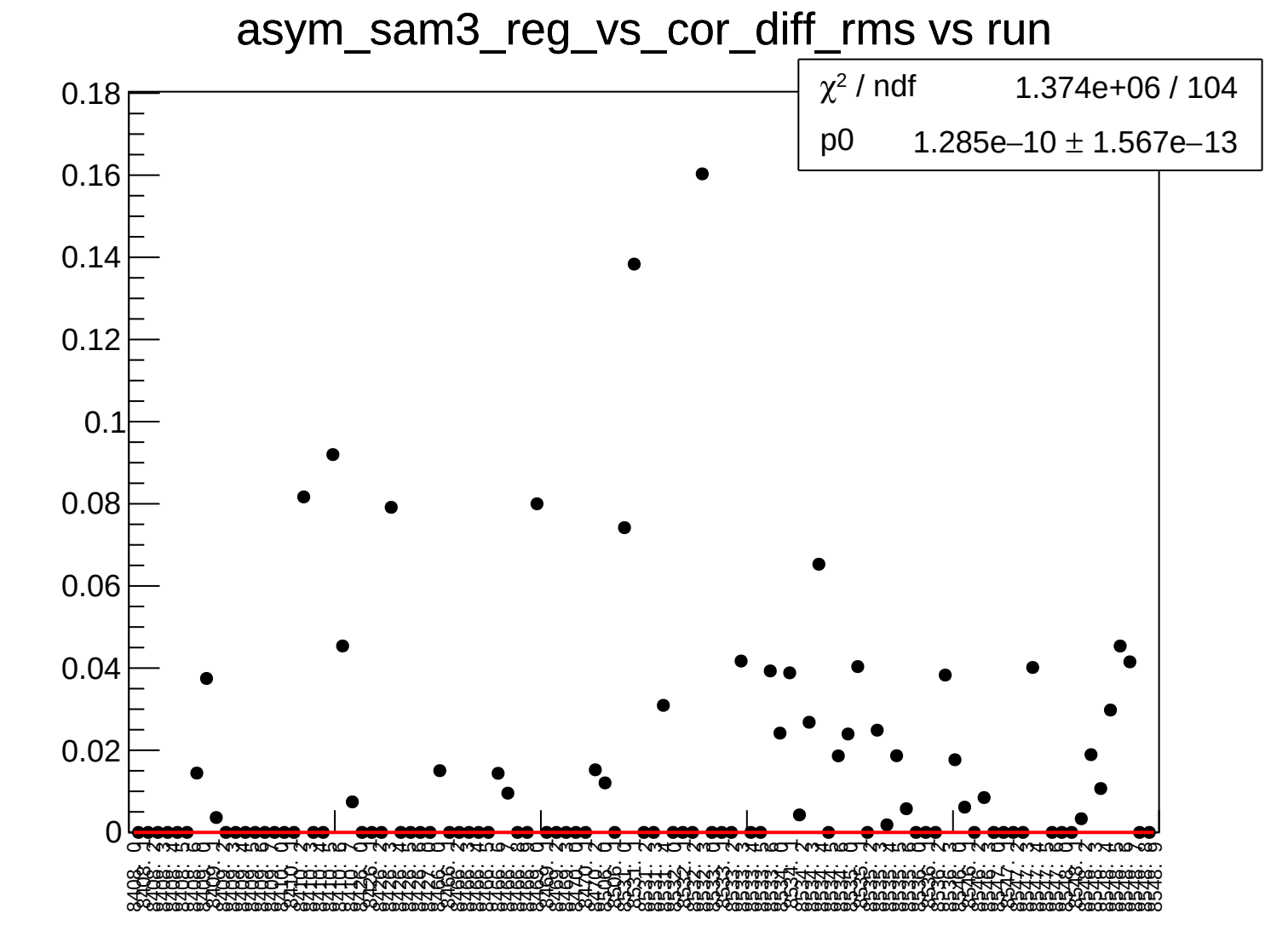

asym_sam3_mean vs run
×10^3
χ^2 / ndf 110.2 / 104
p0 7783 ± 2332
100
50
0
−50
−100
pull
Entries 105
Mean 1208
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

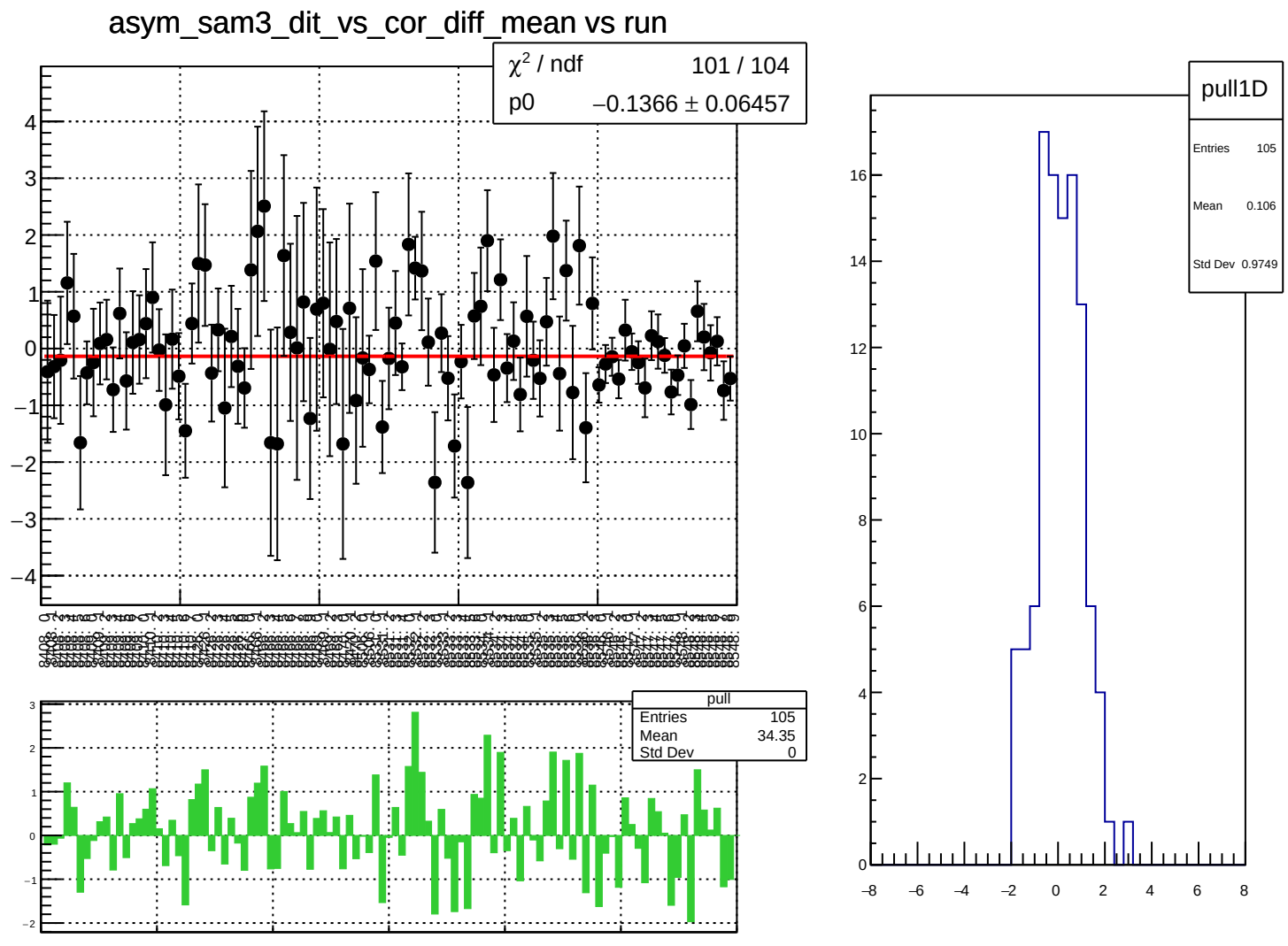

pull1D
Entries 105
Mean 0.0007793
Std Dev 1.024
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

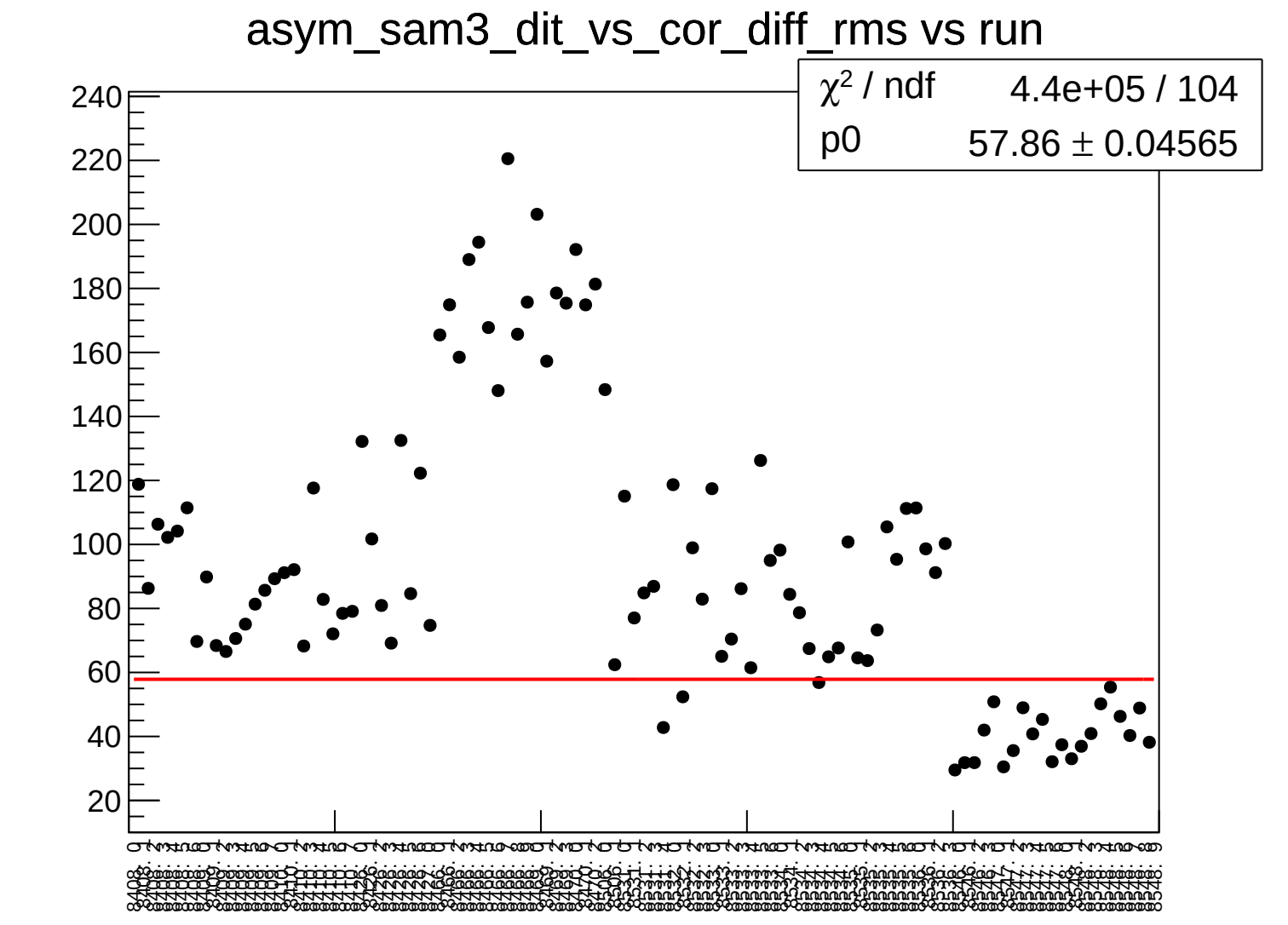

asym_sam3_rms vs run
χ^2 / ndf 3.73e+04 / 104
p0 2337 ± 1.649
3400
3200
3000
2800
2600
2400
2200
2000

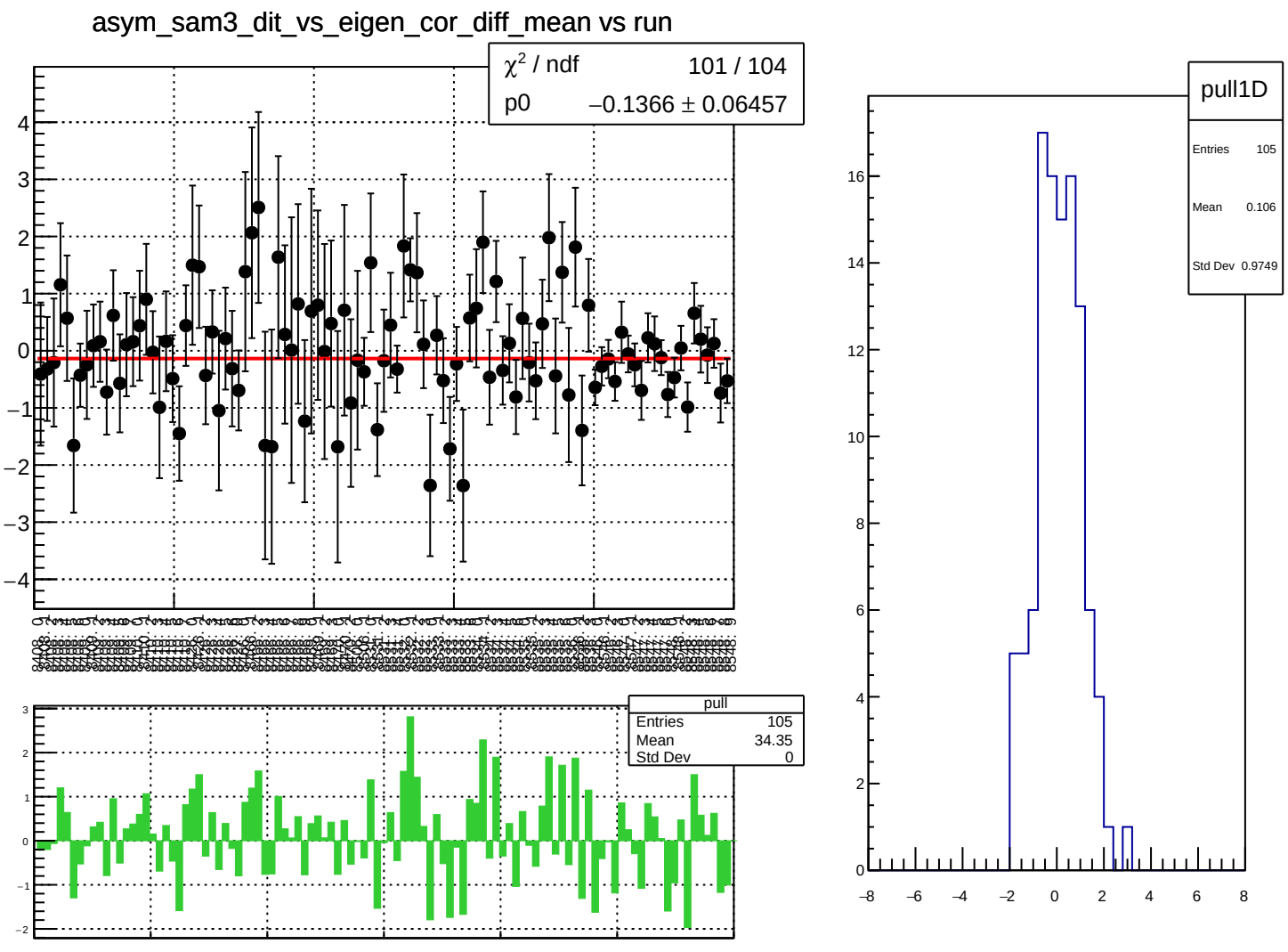

asym_sam3_reg_vs_cor_diff_mean vs run
χ² / ndf 103.6 / 104
p0 3.126e−14 ± 2.216e−13
0.006
0.004
0.002
0
−0.002
−0.004
pull
Entries 105
Mean 30.86
Std Dev 42.83
2
1
0
−1
−2

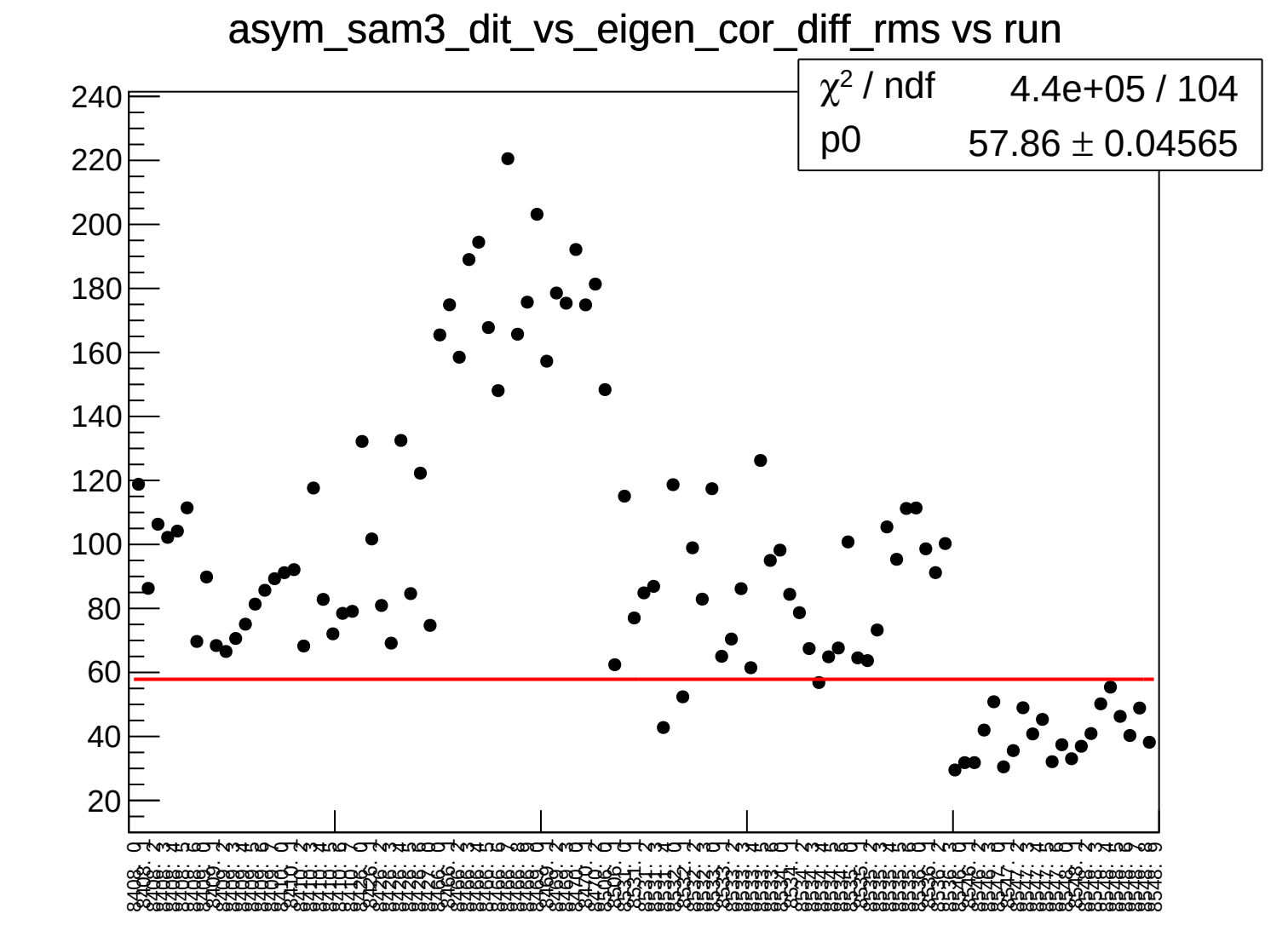

pull1D
Entries 105
Mean −0.04399
Std Dev 0.9921
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

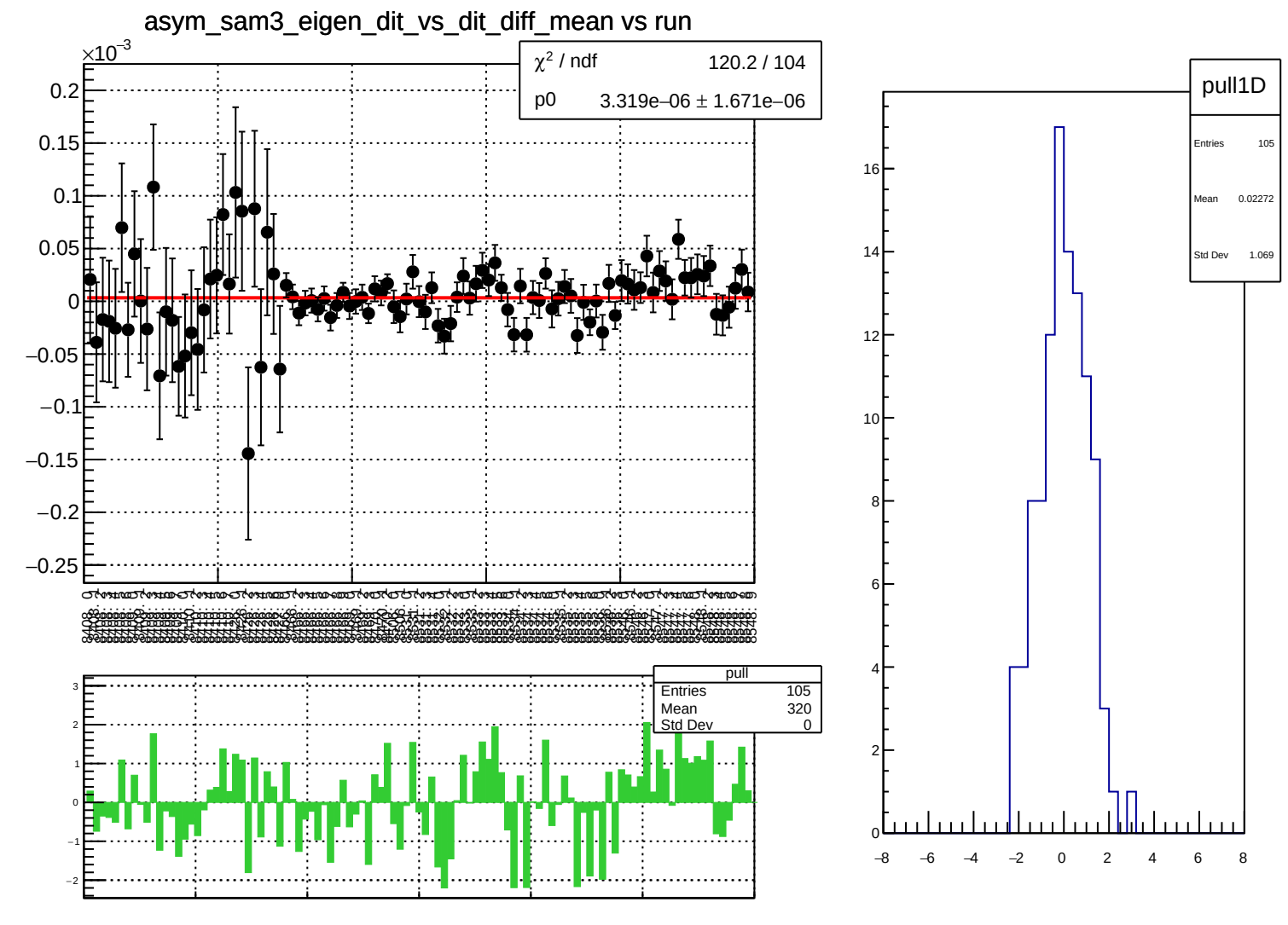

asym_sam3_reg_vs_cor_diff_rms vs run
χ² / ndf 1.374e+06 / 104
p0 1.285e−10 ± 1.567e−13
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

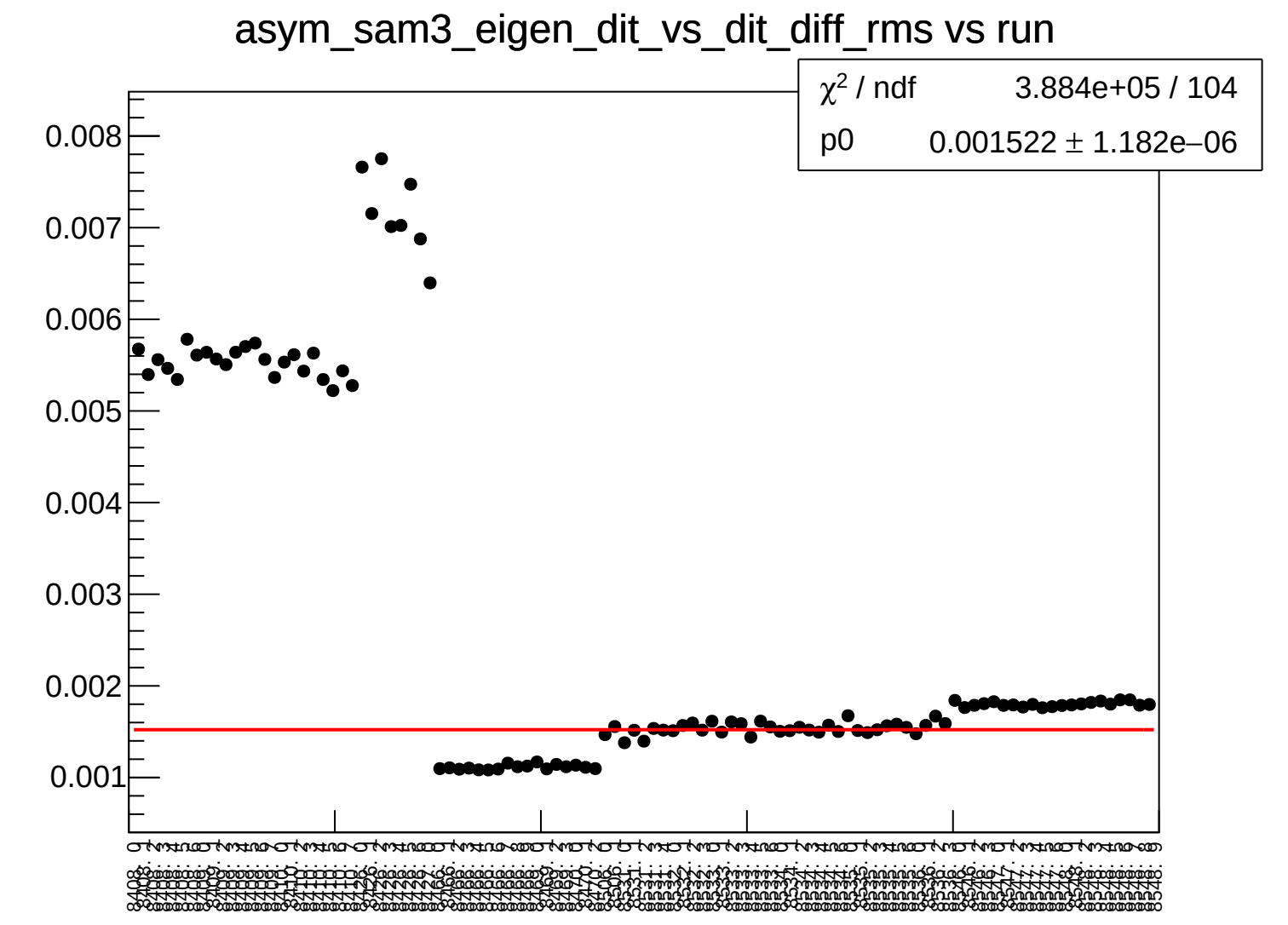

asym_sam3_dit_vs_cor_diff_mean vs run
χ² / ndf 101 / 104
p0 −0.1366 ± 0.06457
pull
Entries 105
Mean 34.35
Std Dev 0
pull1D
Entries 105
Mean 0.106
Std Dev 0.9749

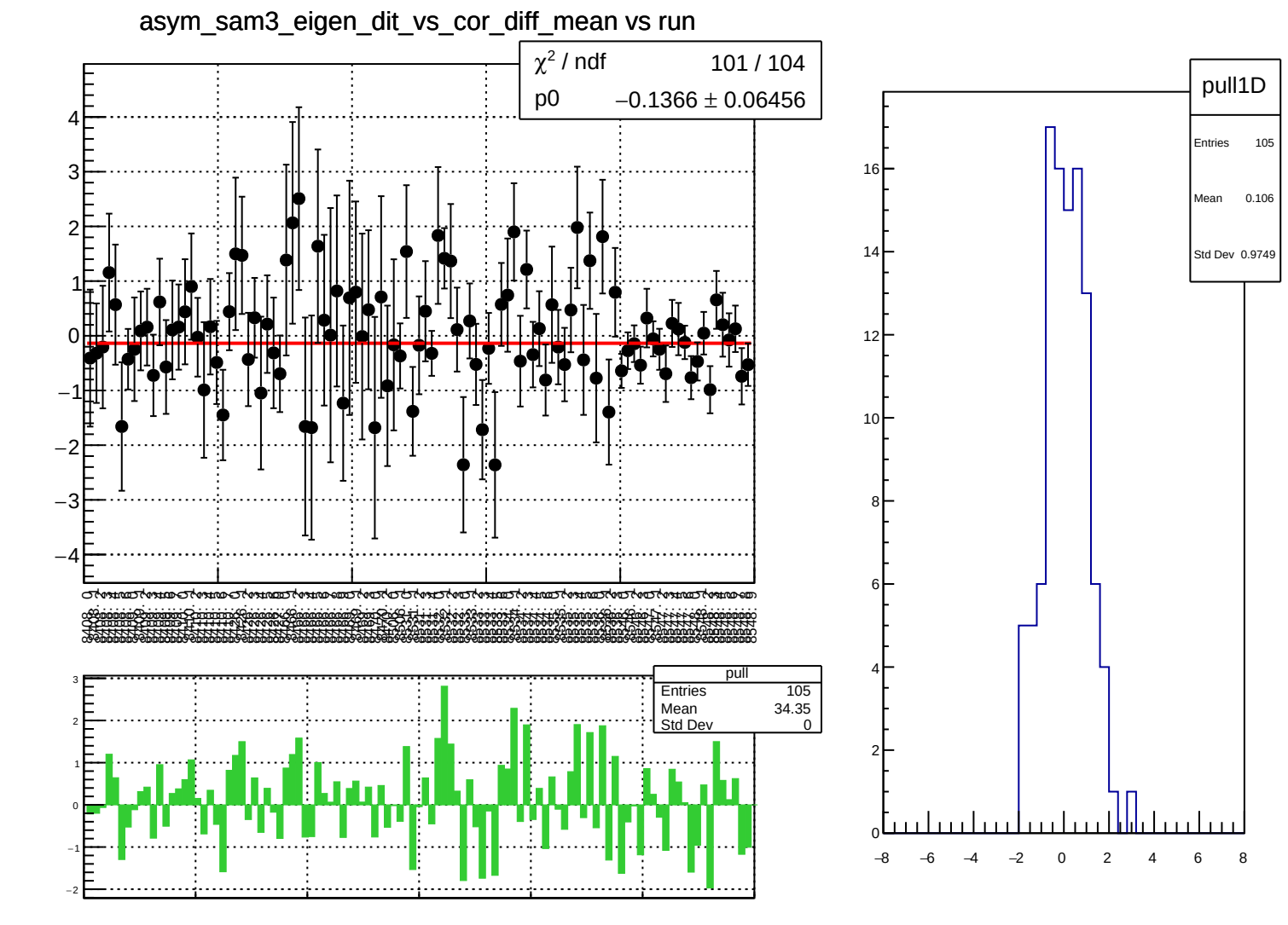

asym_sam3_dit_vs_cor_diff_rms vs run
χ² / ndf 4.4e+05 / 104
p0 57.86 ± 0.04565
240
220
200
180
160
140
120
100
80
60
40
20

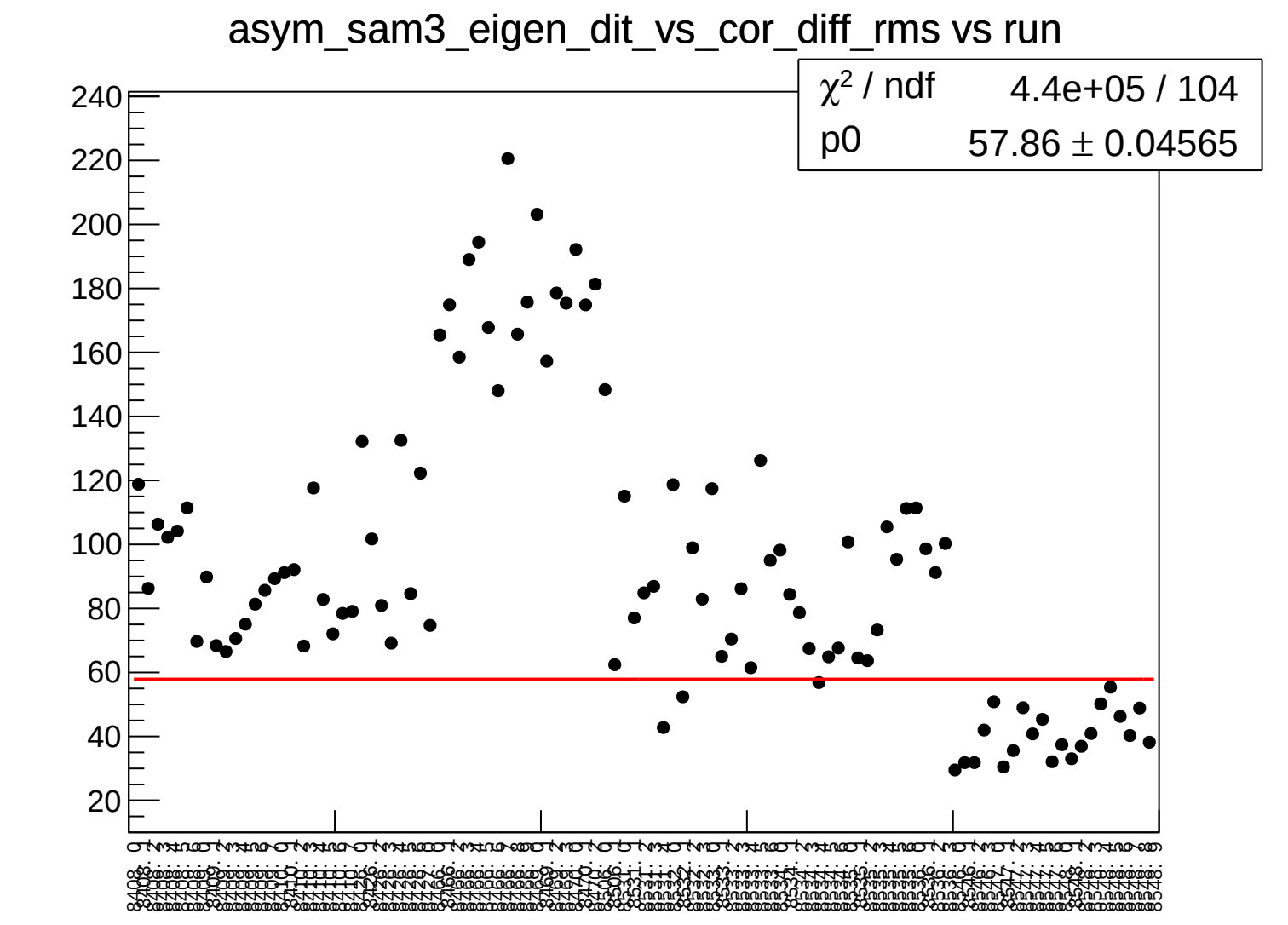

asym_sam3_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101 / 104
p0 −0.1366 ± 0.06457
pull
Entries 105
Mean 34.35
Std Dev 0
pull1D
Entries 105
Mean 0.106
Std Dev 0.9749

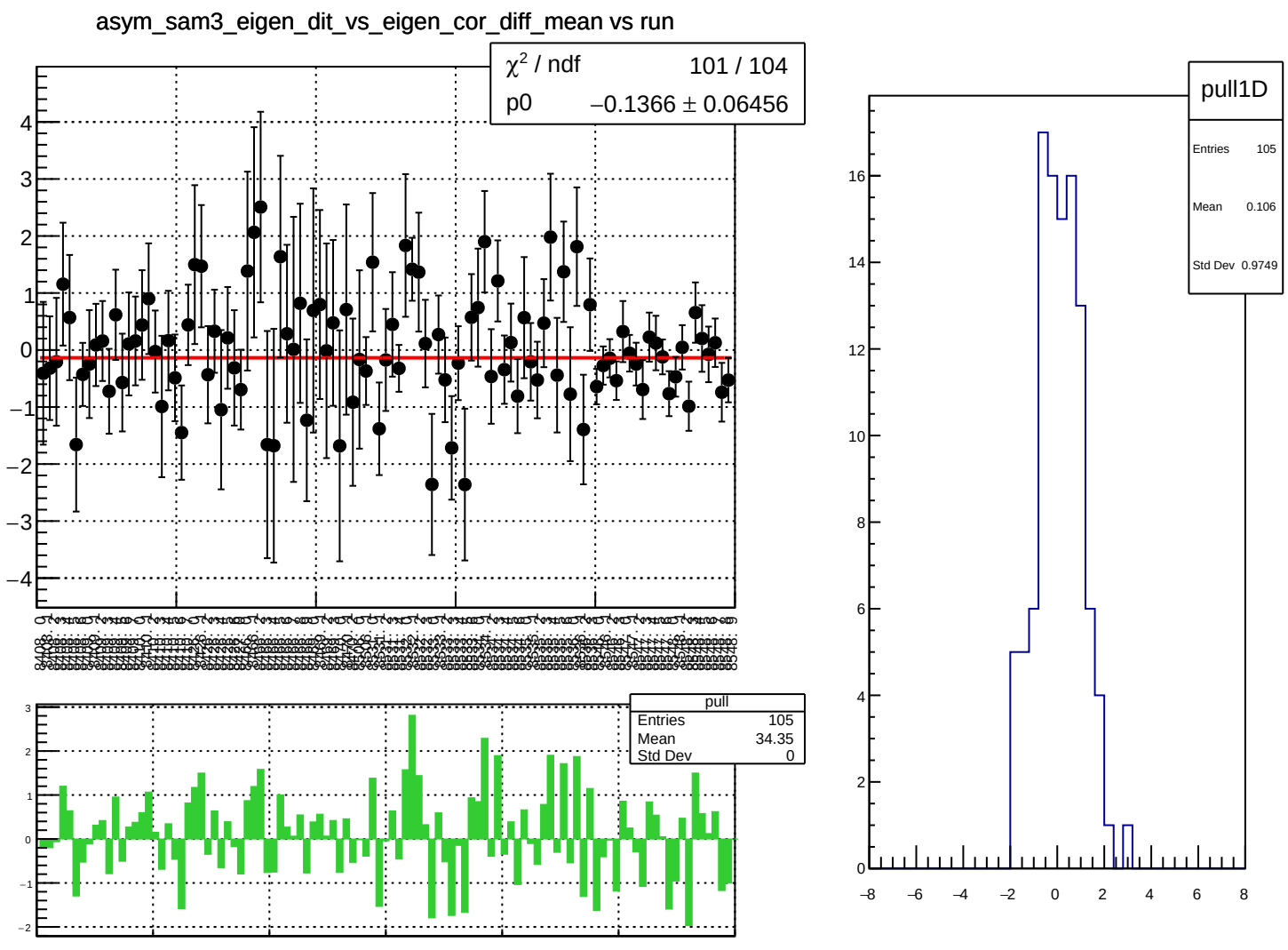

asym_sam3_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.4e+05 / 104
p0 57.86 ± 0.04565
240
220
200
180
160
140
120
100
80
60
40
20

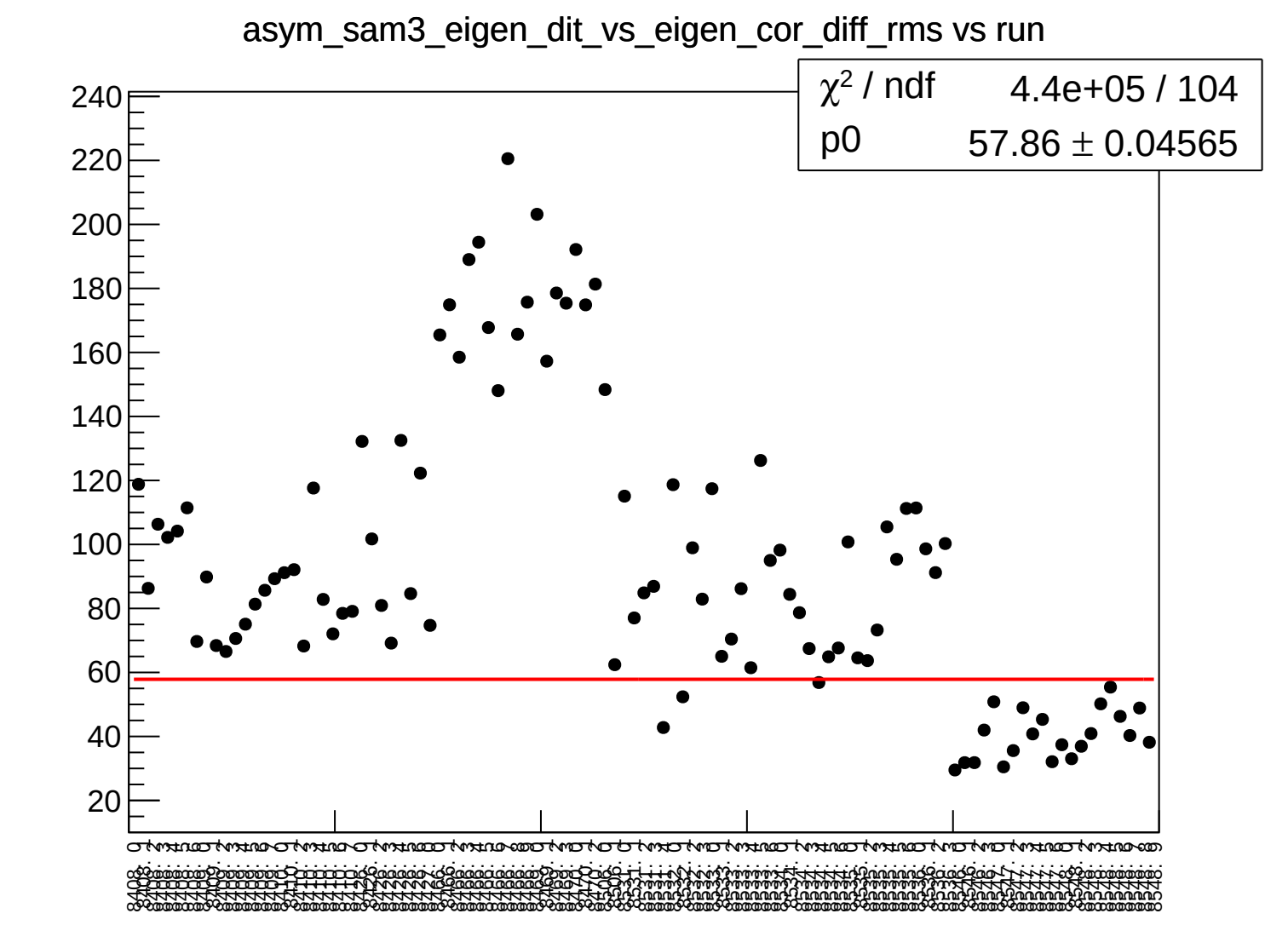

asym_sam3_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 120.2 / 104
p0 3.319e−06 ± 1.671e−06
pull
Entries 105
Mean 320
Std Dev 0
pull1D
Entries 105
Mean 0.02272
Std Dev 1.069

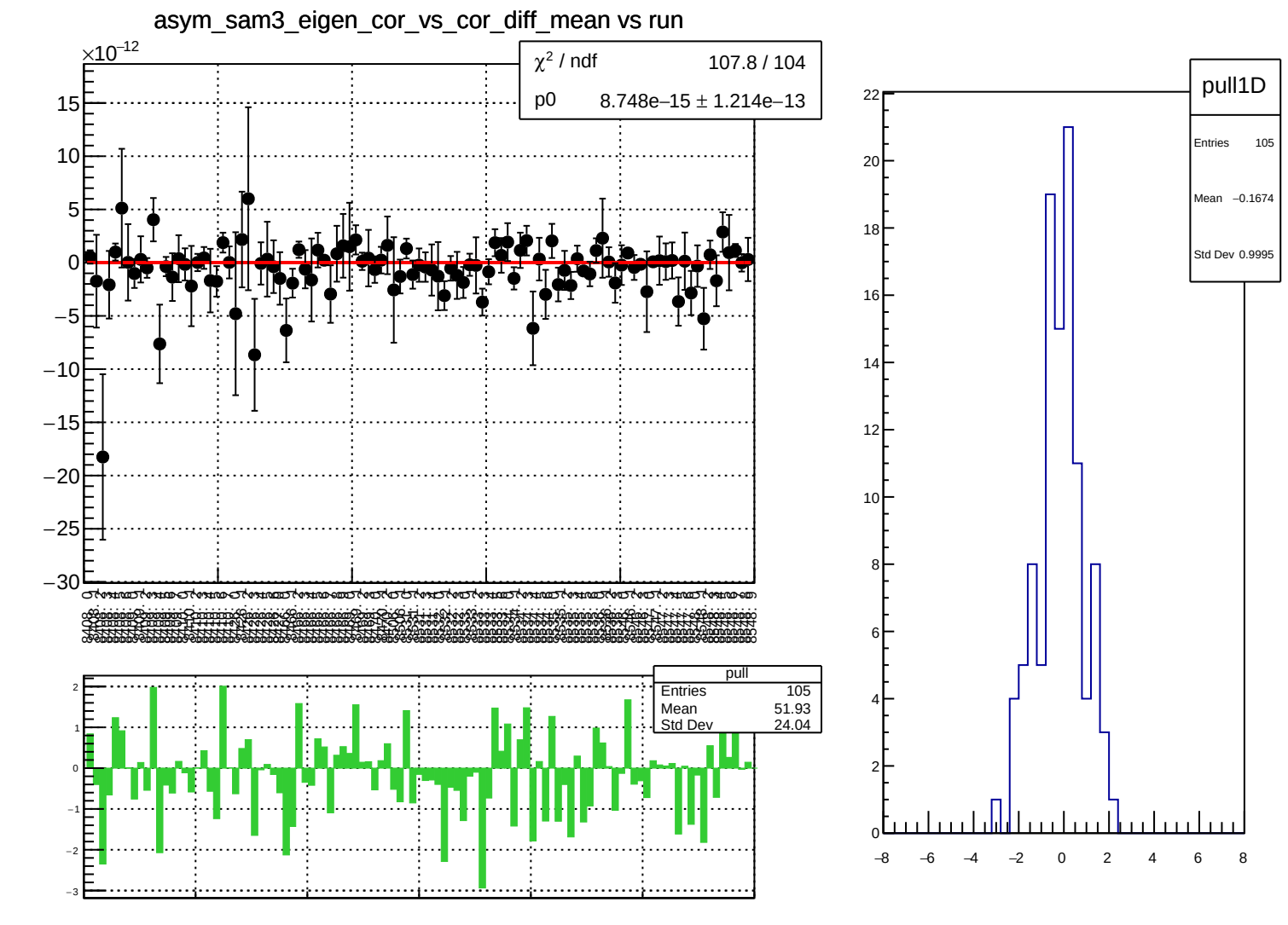

asym_sam3_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.884e+05 / 104
p0 0.001522 ± 1.182e−06
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001

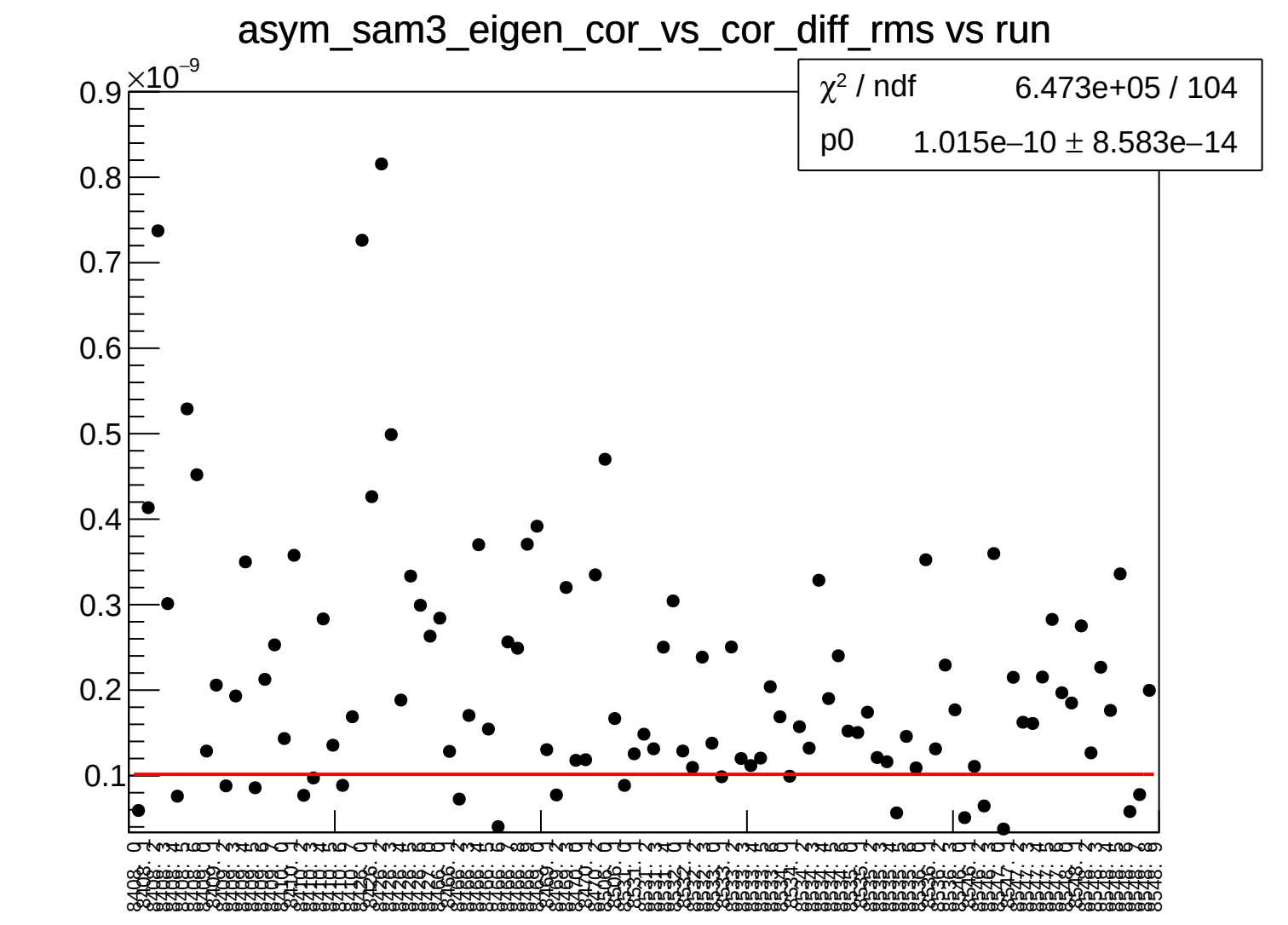

asym_sam3_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 101 / 104
p0 −0.1366 ± 0.06456
pull
Entries 105
Mean 34.35
Std Dev 0
pull1D
Entries 105
Mean 0.106
Std Dev 0.9749

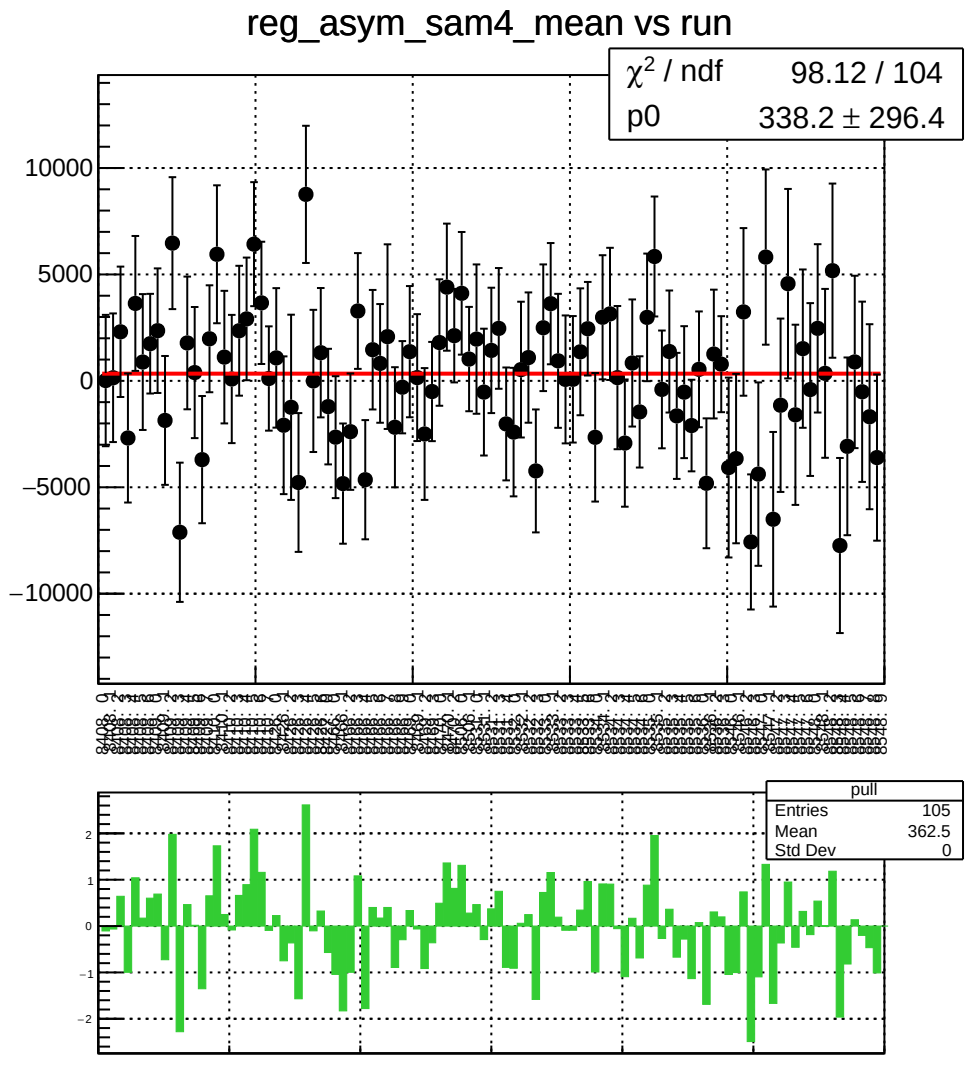

asym_sam3_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.4e+05 / 104
p0 57.86 ± 0.04565
240
220
200
180
160
140
120
100
80
60
40
20

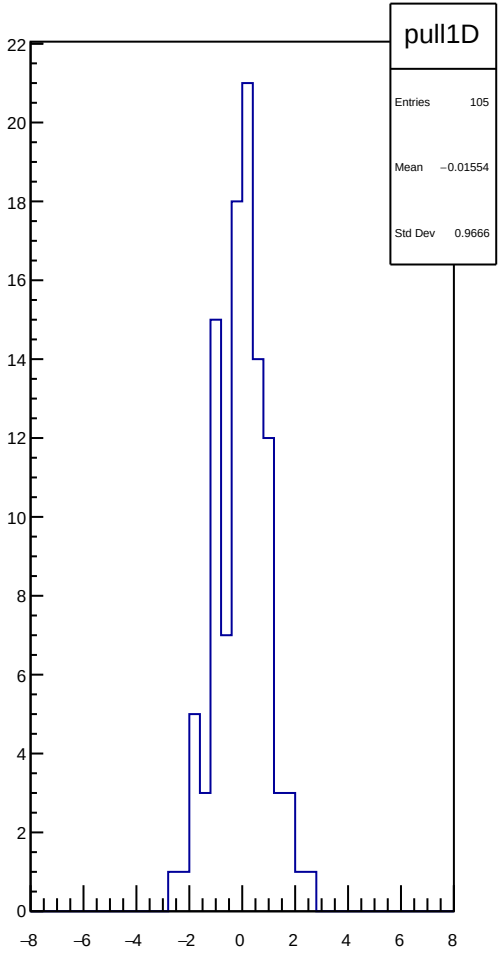

asym_sam3_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101 / 104
p0 −0.1366 ± 0.06456
pull
Entries 105
Mean 34.35
Std Dev 0
pull1D
Entries 105
Mean 0.106
Std Dev 0.9749

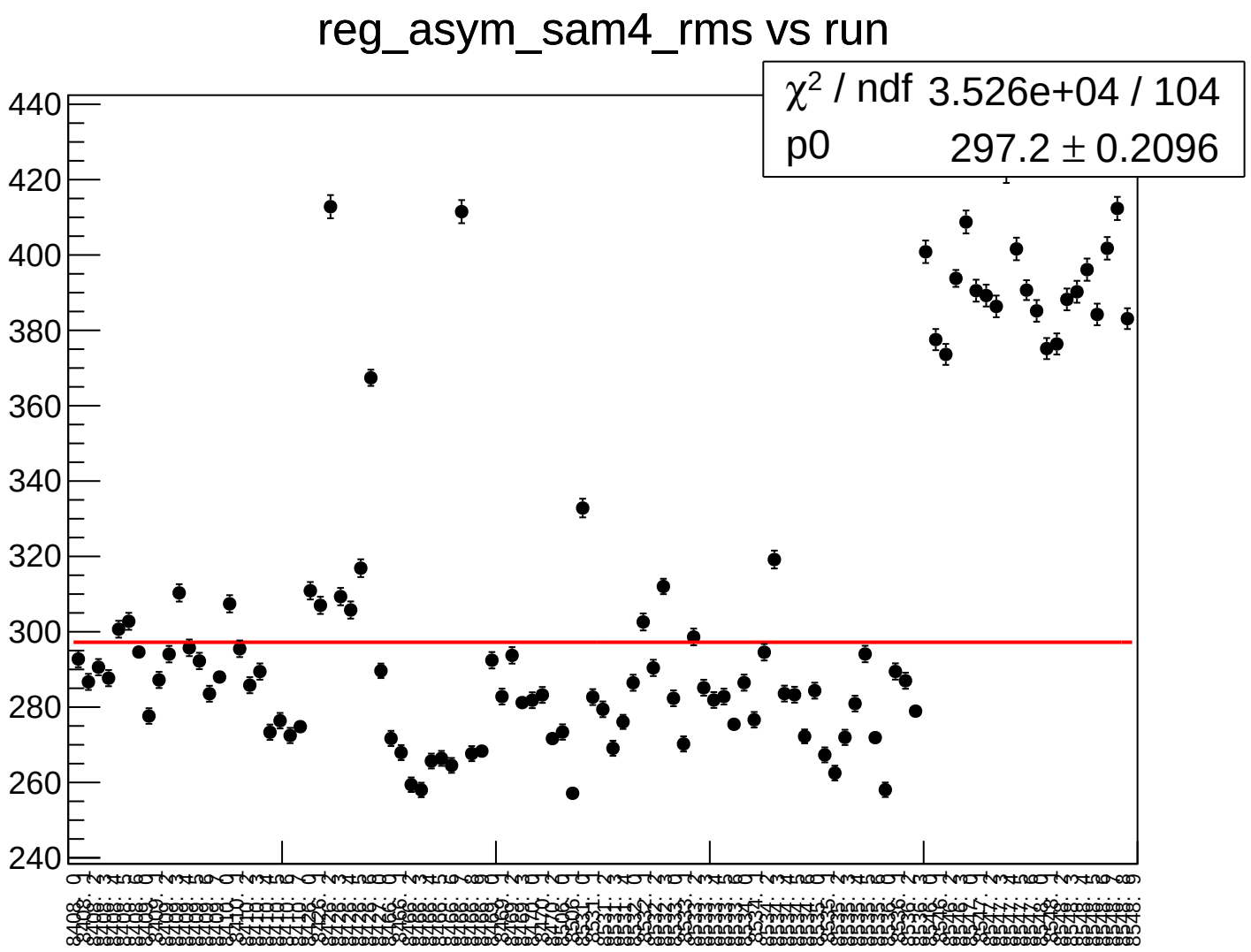

asym_sam3_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.4e+05 / 104
p0 57.86 ± 0.04565
240
220
200
180
160
140
120
100
80
60
40
20

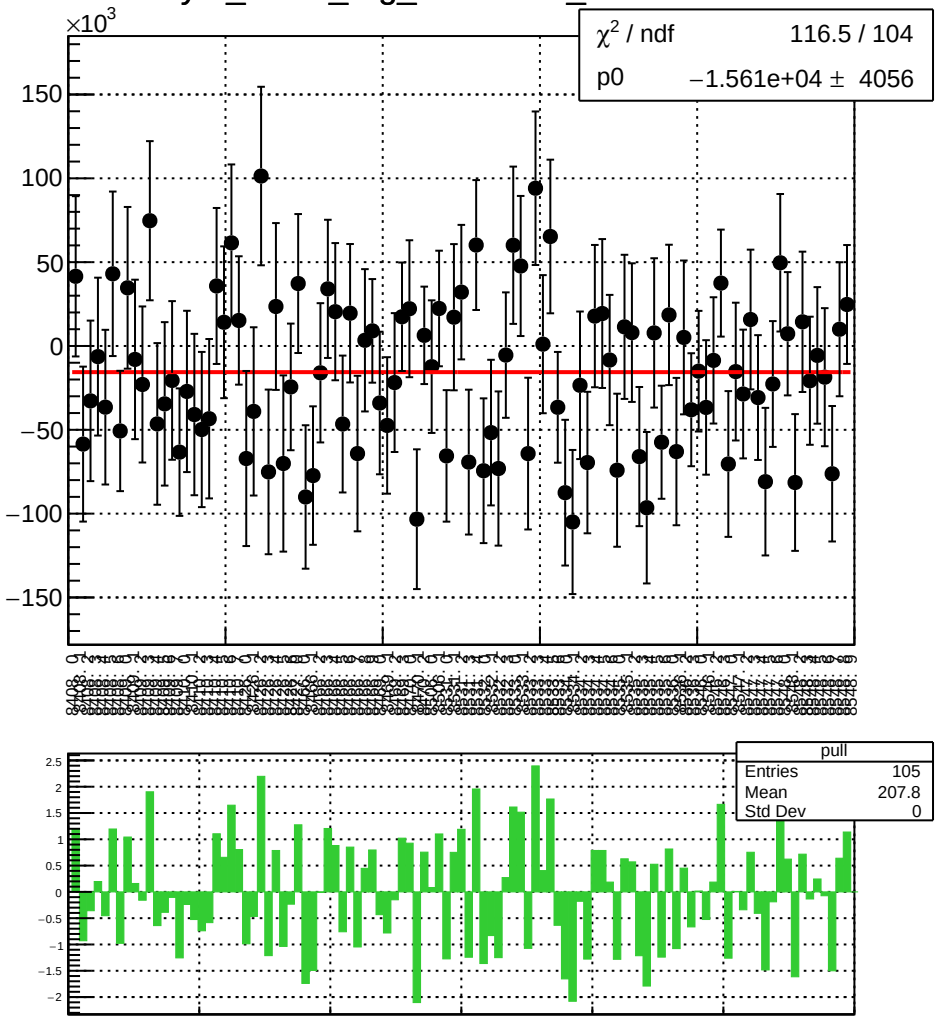

asym_sam3_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 107.8 / 104
p0 8.748e−15 ± 1.214e−13
pull
Entries 105
Mean 51.93
Std Dev 24.04
pull1D
Entries 105
Mean −0.1674
Std Dev 0.9995

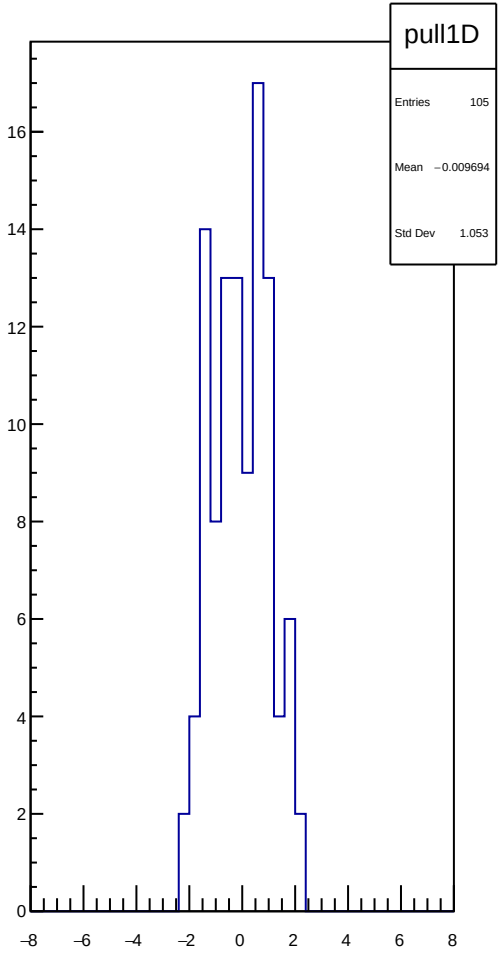

asym_sam3_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
χ² / ndf 6.473e+05 / 104
p0 1.015e−10 ± 8.583e−14


reg_asym_sam4_mean vs run
χ² / ndf 98.12 / 104
p0 338.2 ± 296.4
10000
5000
0
−5000
−10000
pull
Entries 105
Mean 362.5
Std Dev 0
2
1
0
−1
−2

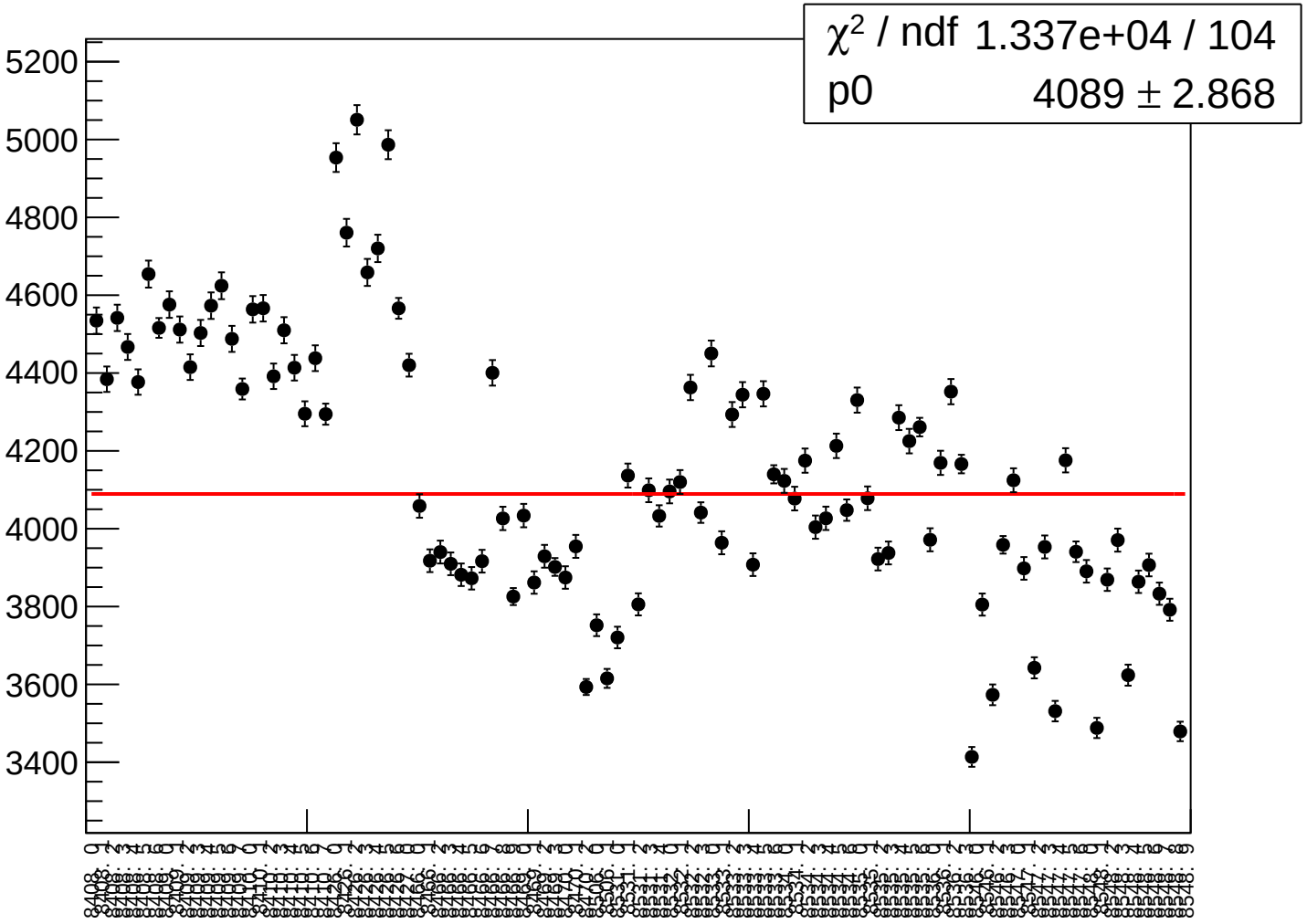

pull1D
Entries 105
Mean −0.01554
Std Dev 0.9666
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

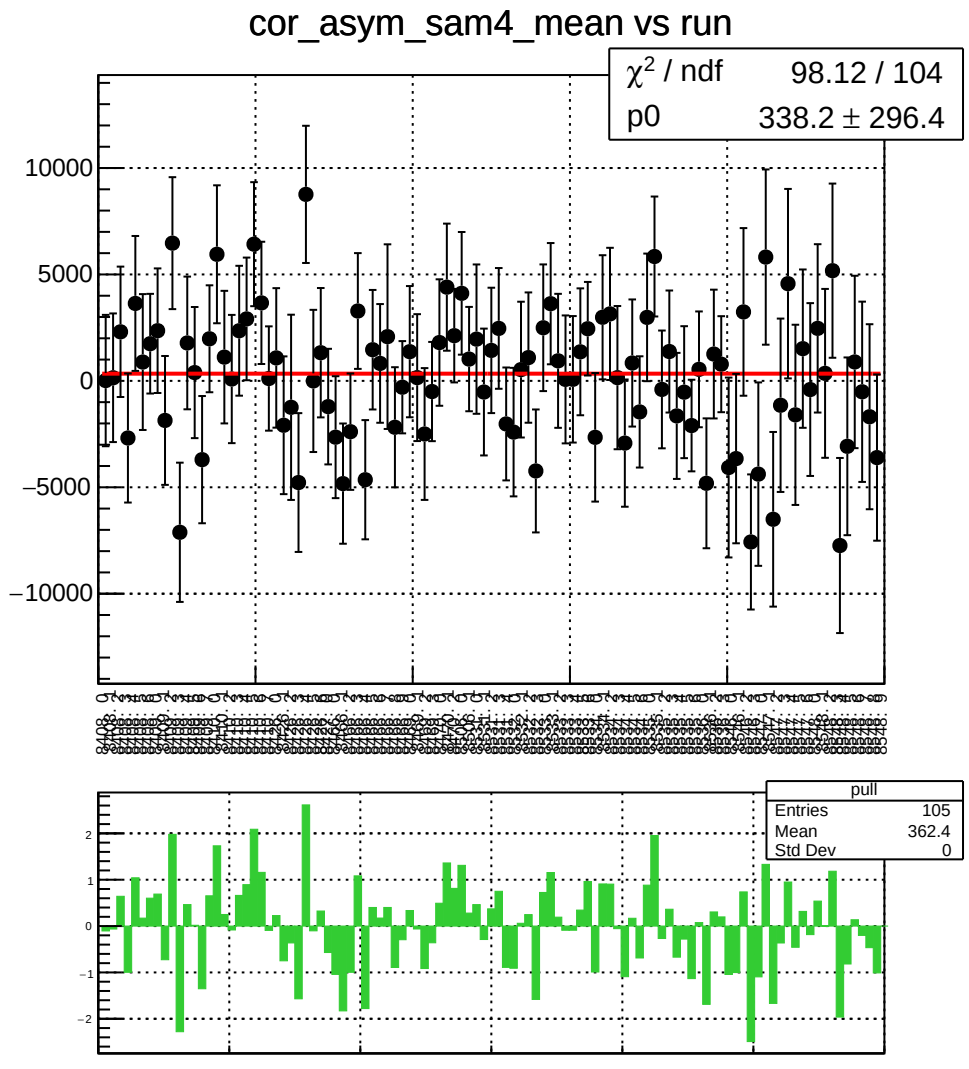

reg_asym_sam4_rms vs run
χ² / ndf 3.526e+04 / 104
p0 297.2 ± 0.2096
440
420
400
380
360
340
320
300
280
260
240

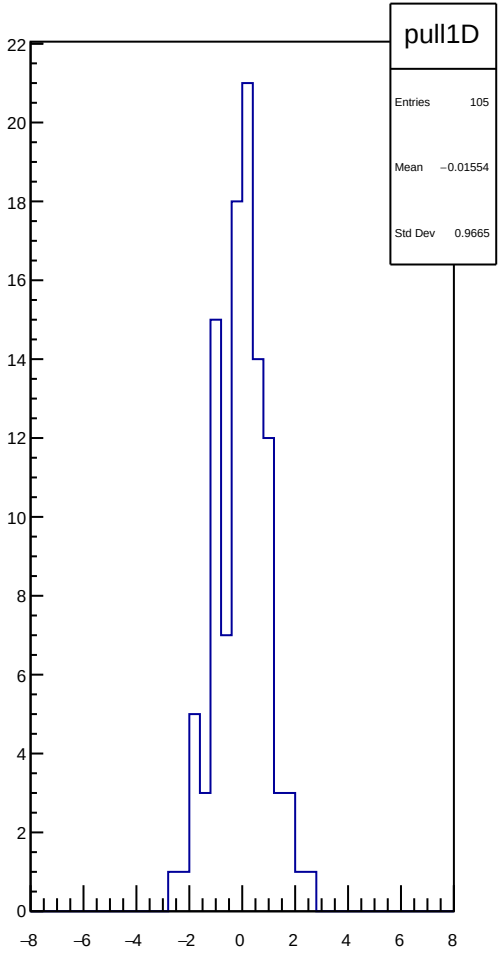

asym_sam4_reg_correction_mean vs run
×10^3
χ² / ndf 116.5 / 104
p0 −1.561e+04 ± 4056
150
100
50
0
−50
−100
−150
pull
Entries 105
Mean 207.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

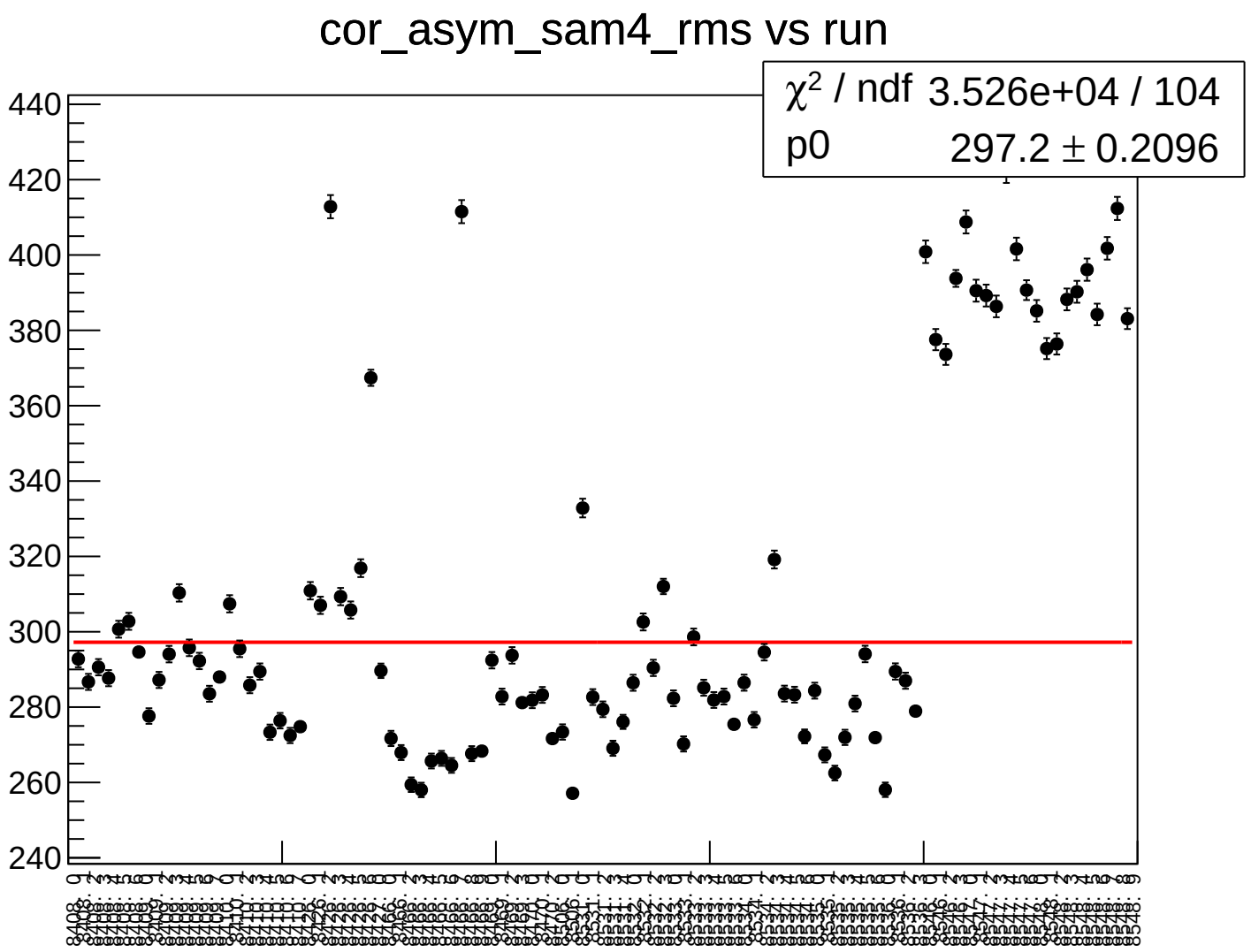

pull1D
Entries 105
Mean −0.009694
Std Dev 1.053
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

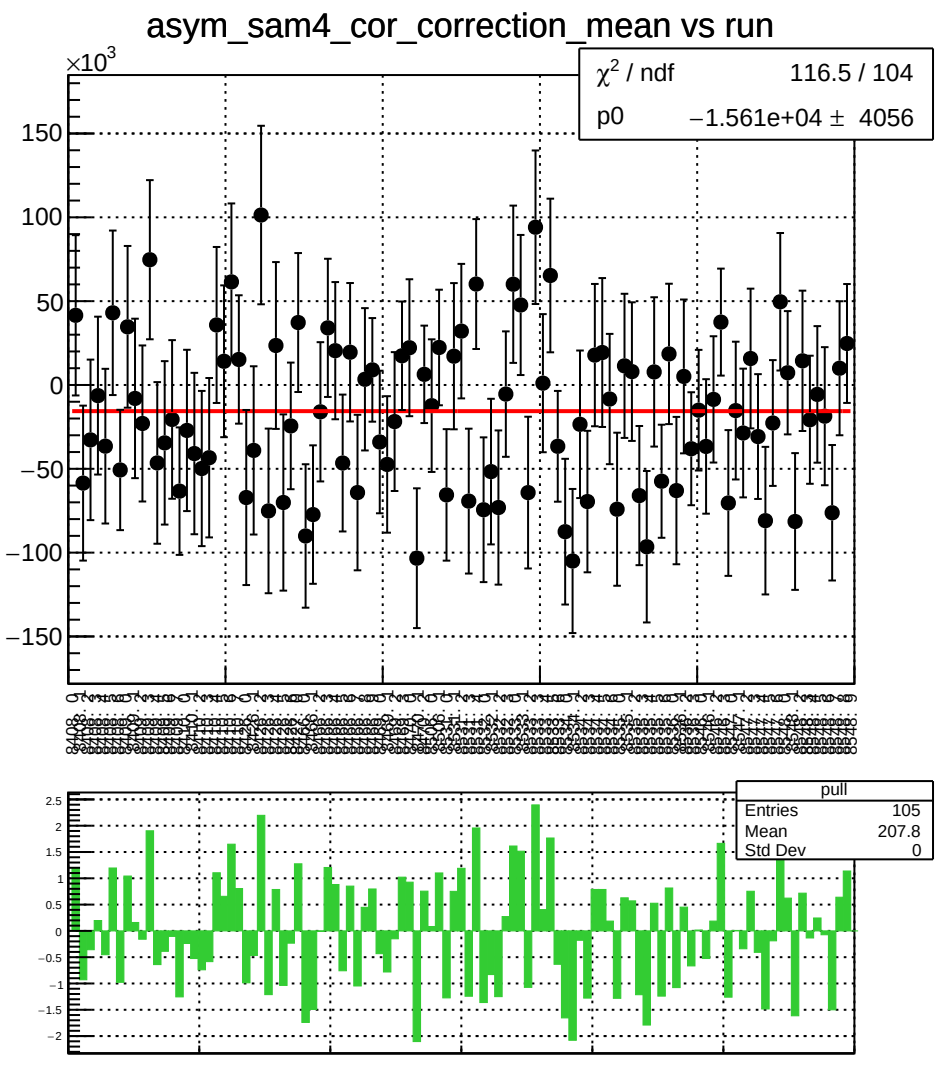
asym_sam4_reg_correction_rms vs run

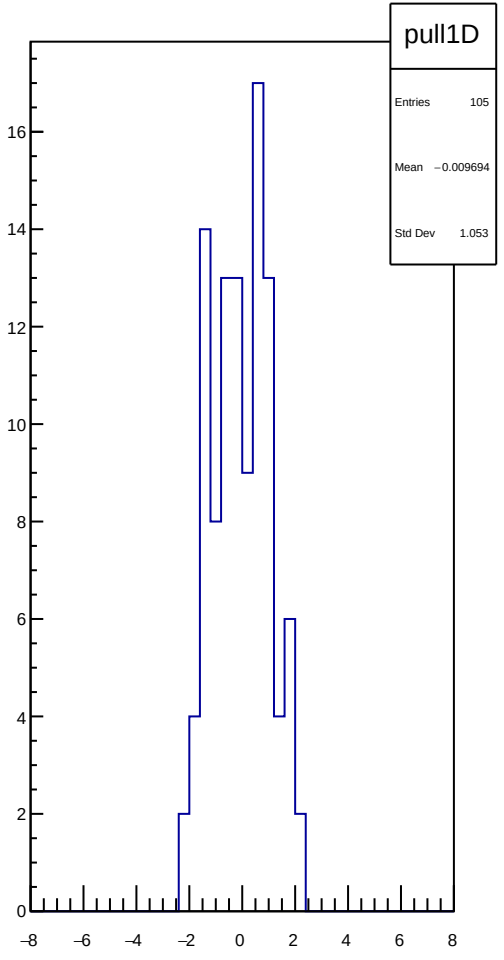


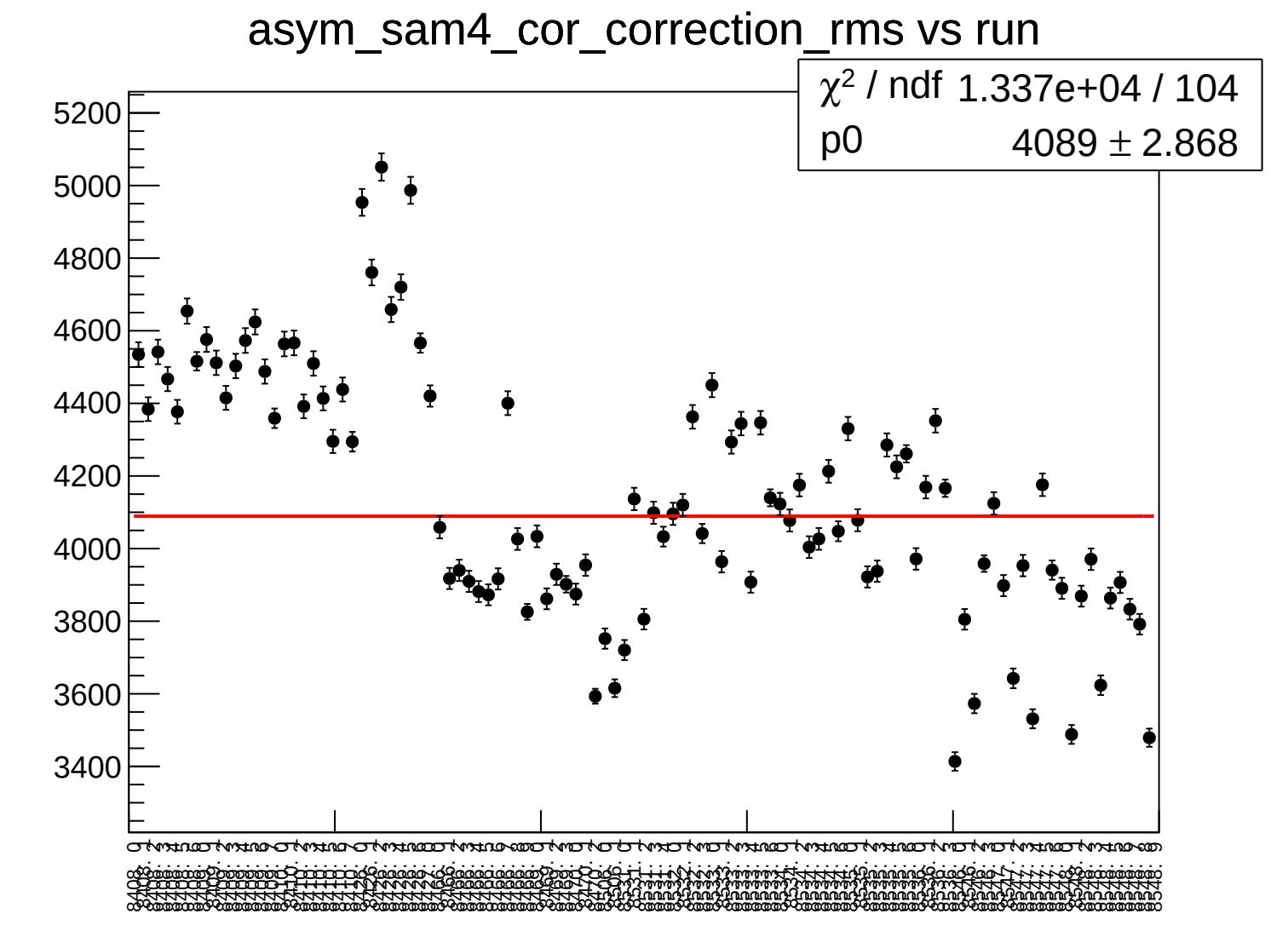

cor_asym_sam4_mean vs run
χ² / ndf 98.12 / 104
p0 338.2 ± 296.4
10000
5000
0
−5000
−10000
pull
Entries 105
Mean 362.4
Std Dev 0
2
1
0
−1
−2

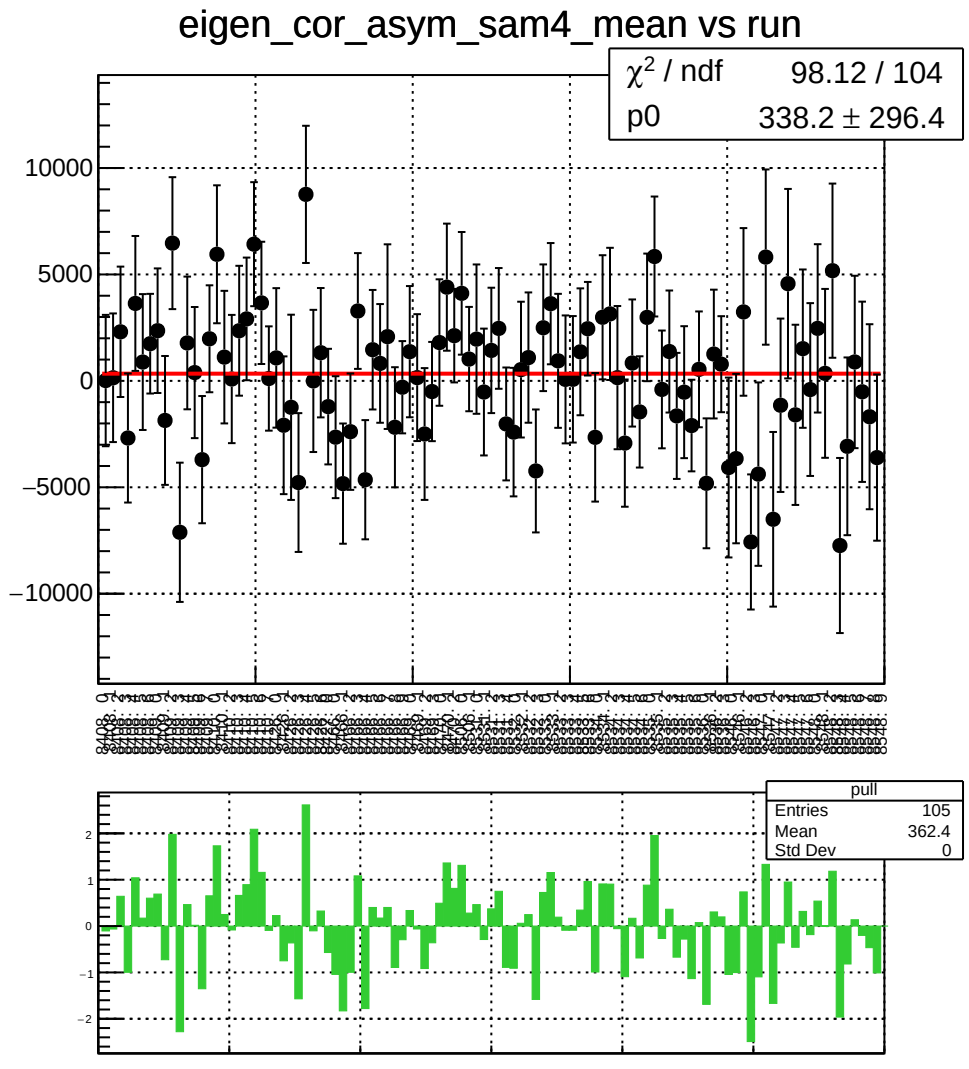

pull1D
Entries 105
Mean −0.01554
Std Dev 0.9665
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

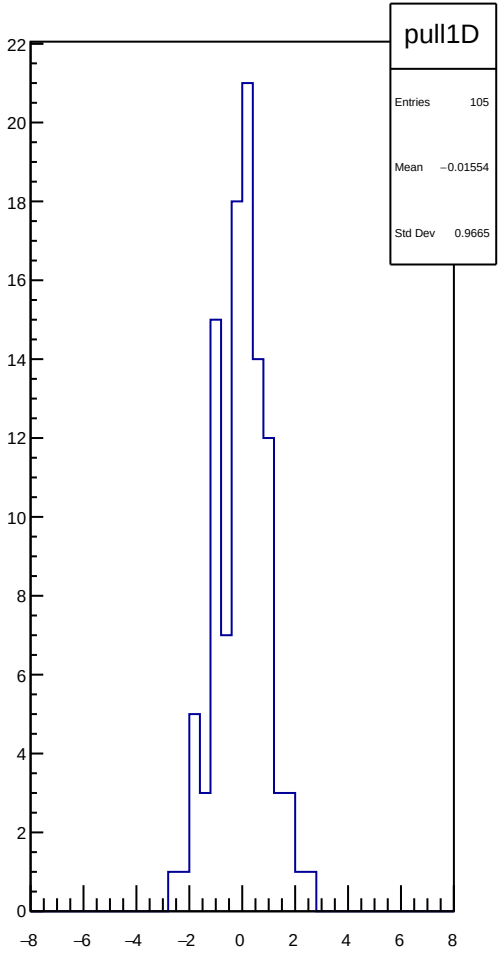

cor_asym_sam4_rms vs run
χ² / ndf 3.526e+04 / 104
p0 297.2 ± 0.2096
440
420
400
380
360
340
320
300
280
260
240

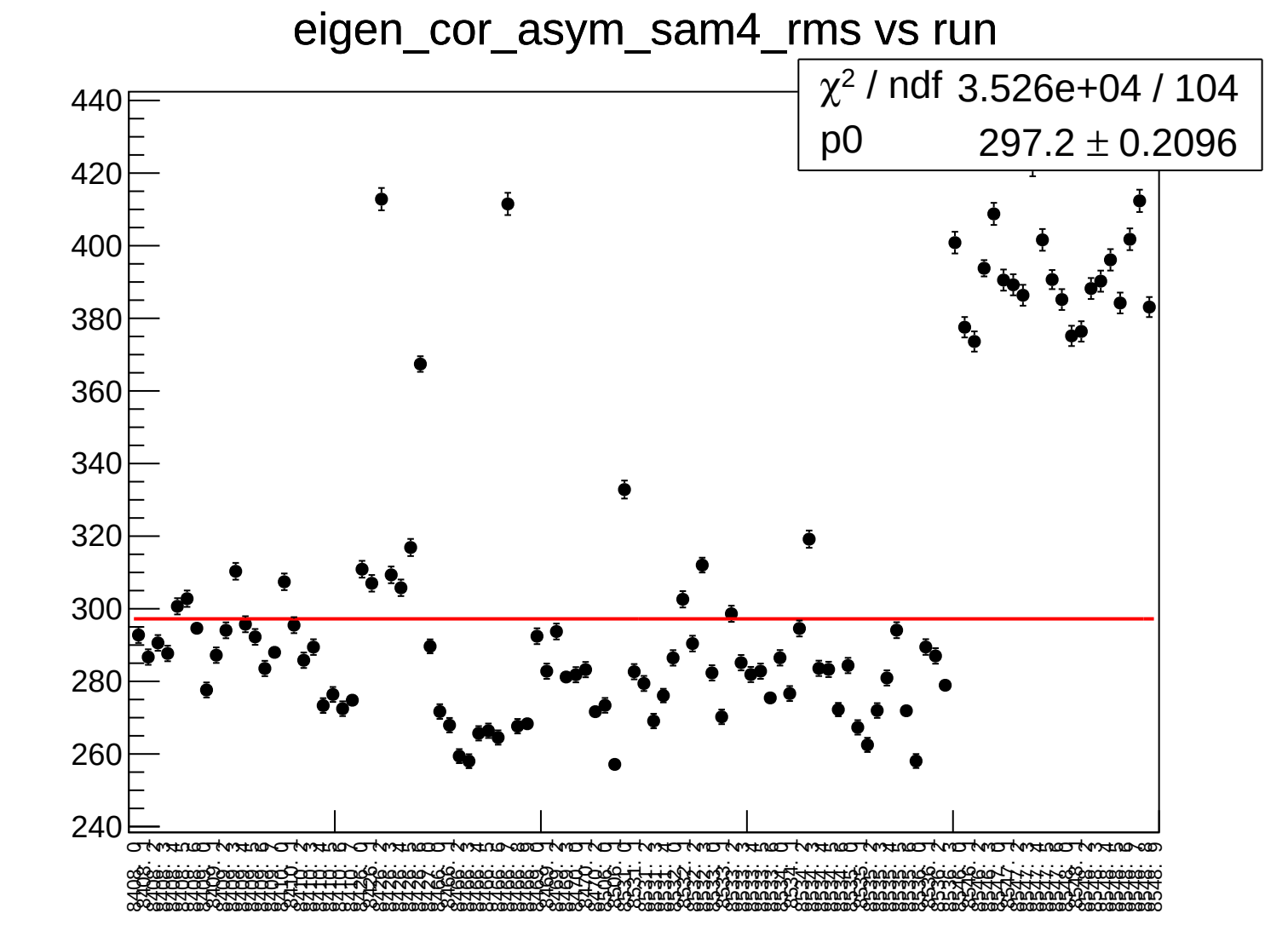

asym_sam4_cor_correction_mean vs run
×10^3
χ² / ndf 116.5 / 104
p0 −1.561e+04 ± 4056
150
100
50
0
−50
−100
−150
pull
Entries 105
Mean 207.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

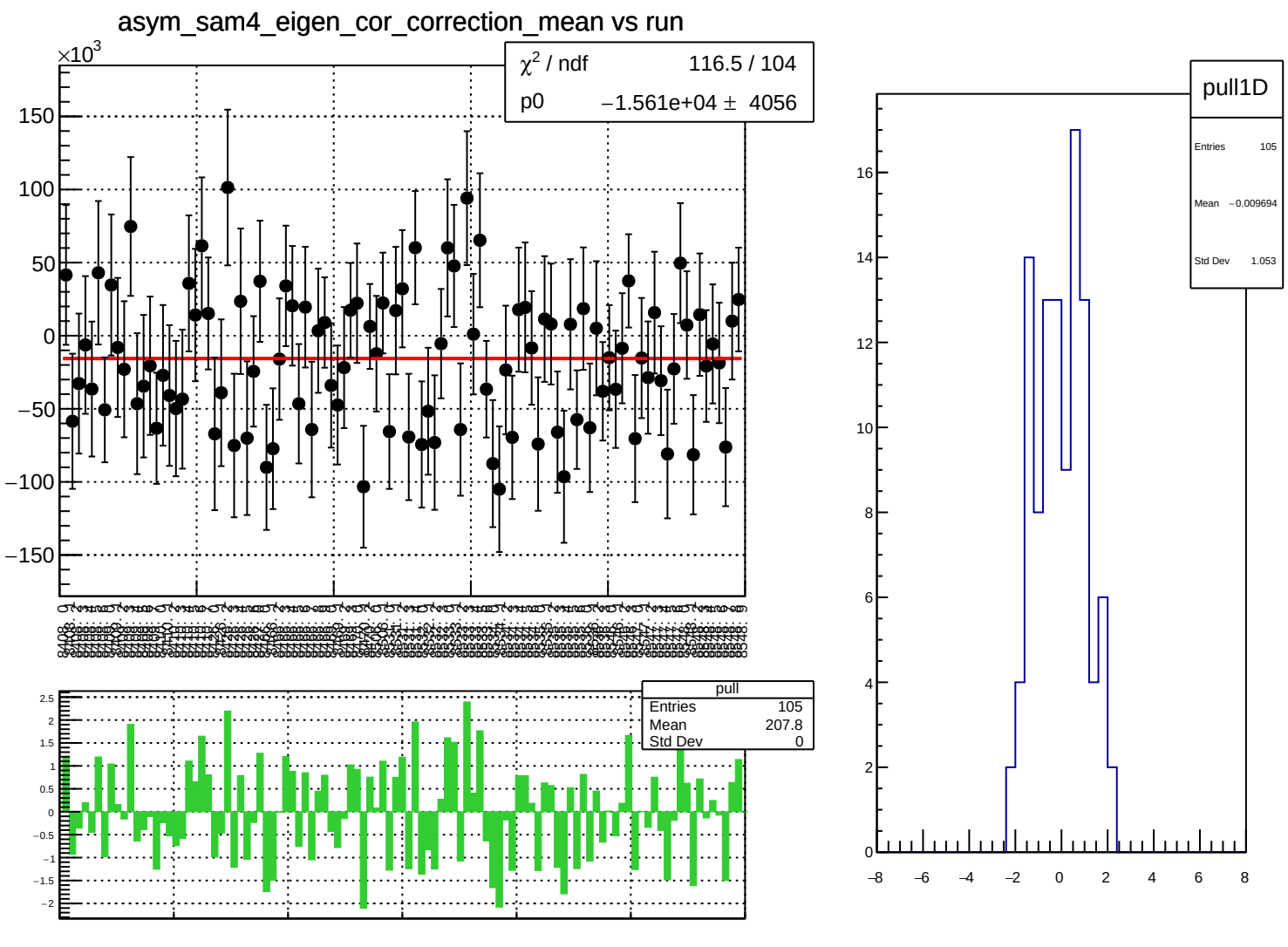

pull1D
Entries 105
Mean −0.009694
Std Dev 1.053
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

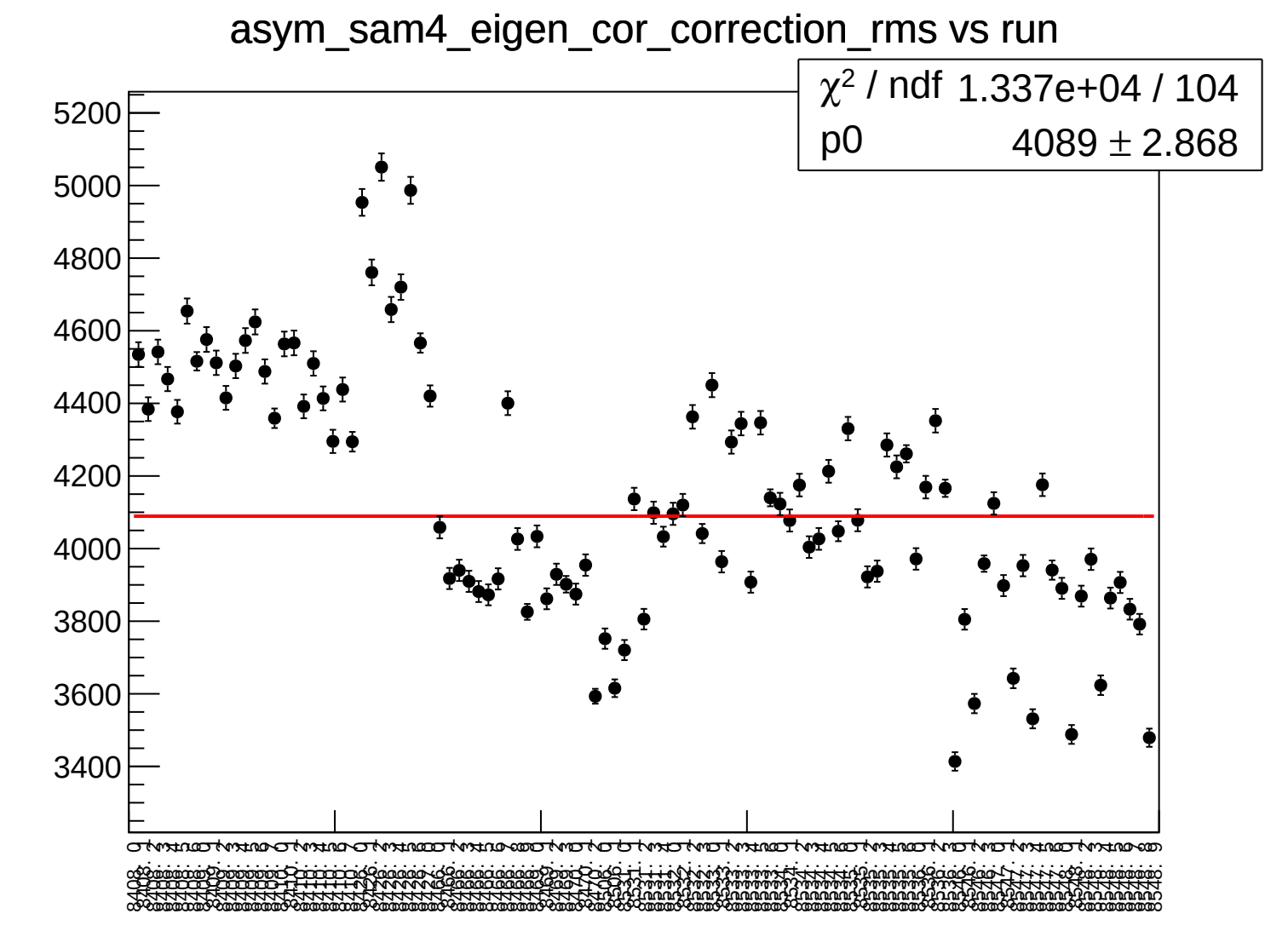

asym_sam4_cor_correction_rms vs run
χ² / ndf 1.337e+04 / 104
p0 4089 ± 2.868
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400

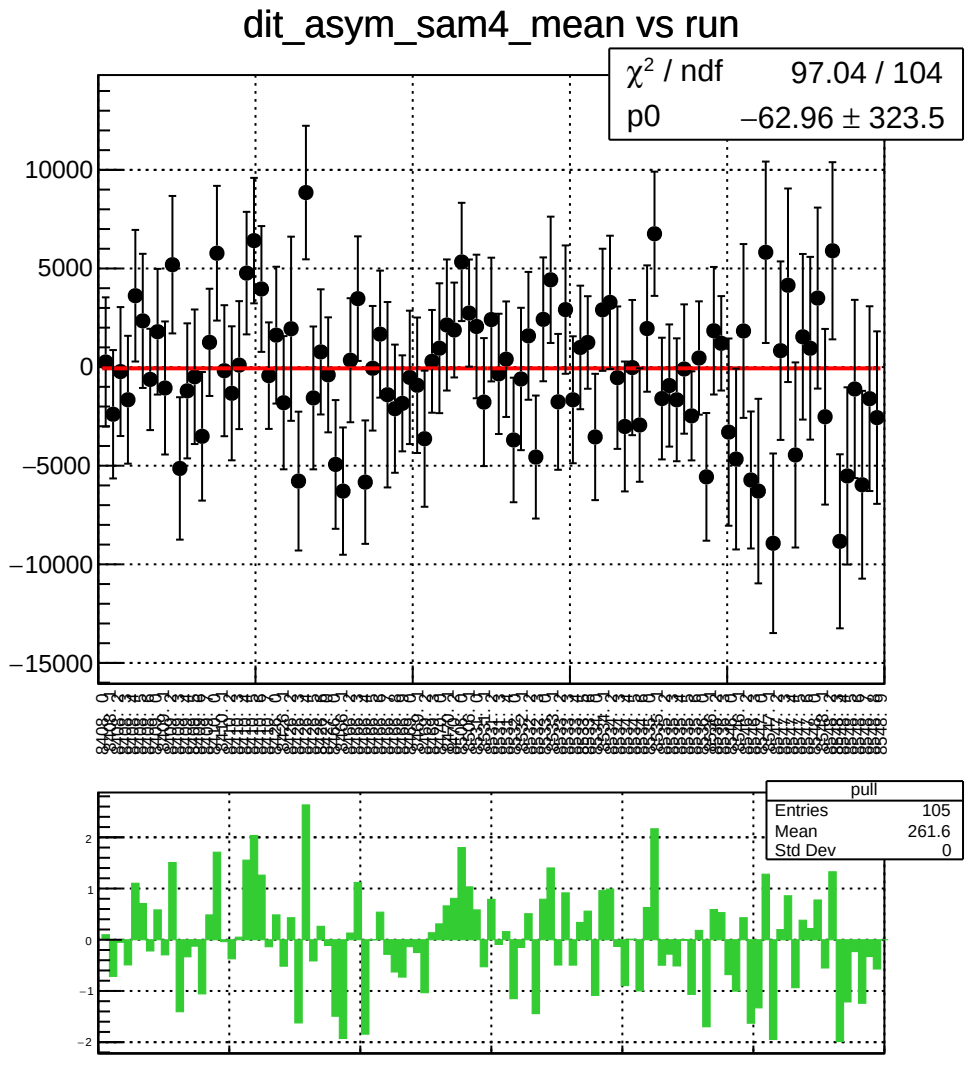

eigen_cor_asym_sam4_mean vs run
χ² / ndf 98.12 / 104
p0 338.2 ± 296.4
10000
5000
0
−5000
−10000
pull
Entries 105
Mean 362.4
Std Dev 0
2
1
0
−1
−2

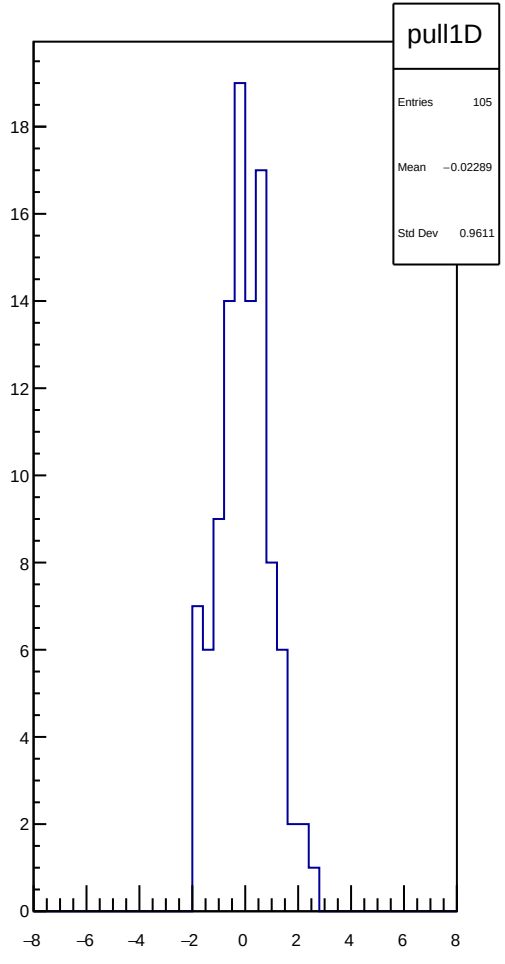

pull1D
Entries 105
Mean −0.01554
Std Dev 0.9665
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

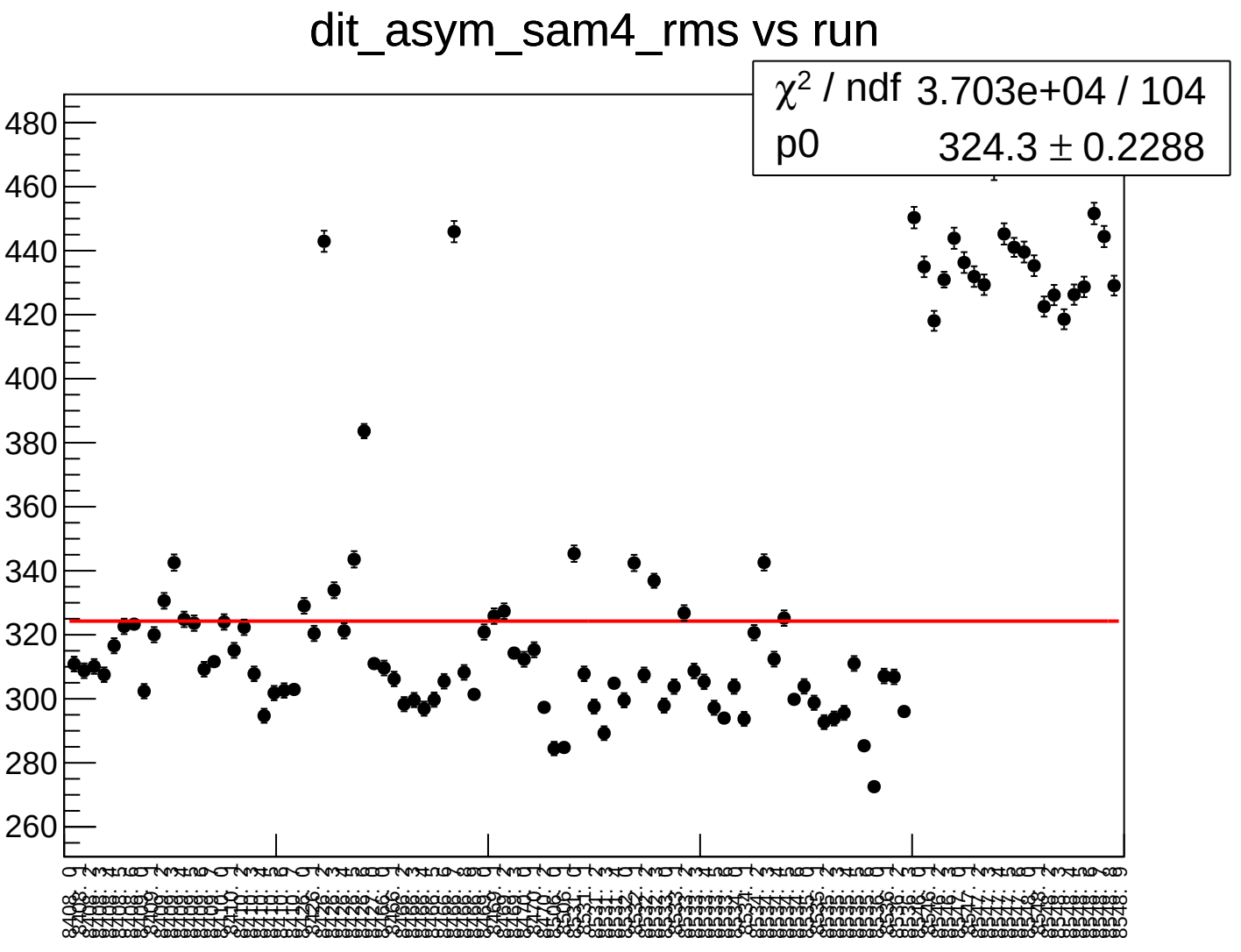

eigen_cor_asym_sam4_rms vs run
χ² / ndf 3.526e+04 / 104
p0 297.2 ± 0.2096
440
420
400
380
360
340
320
300
280
260
240

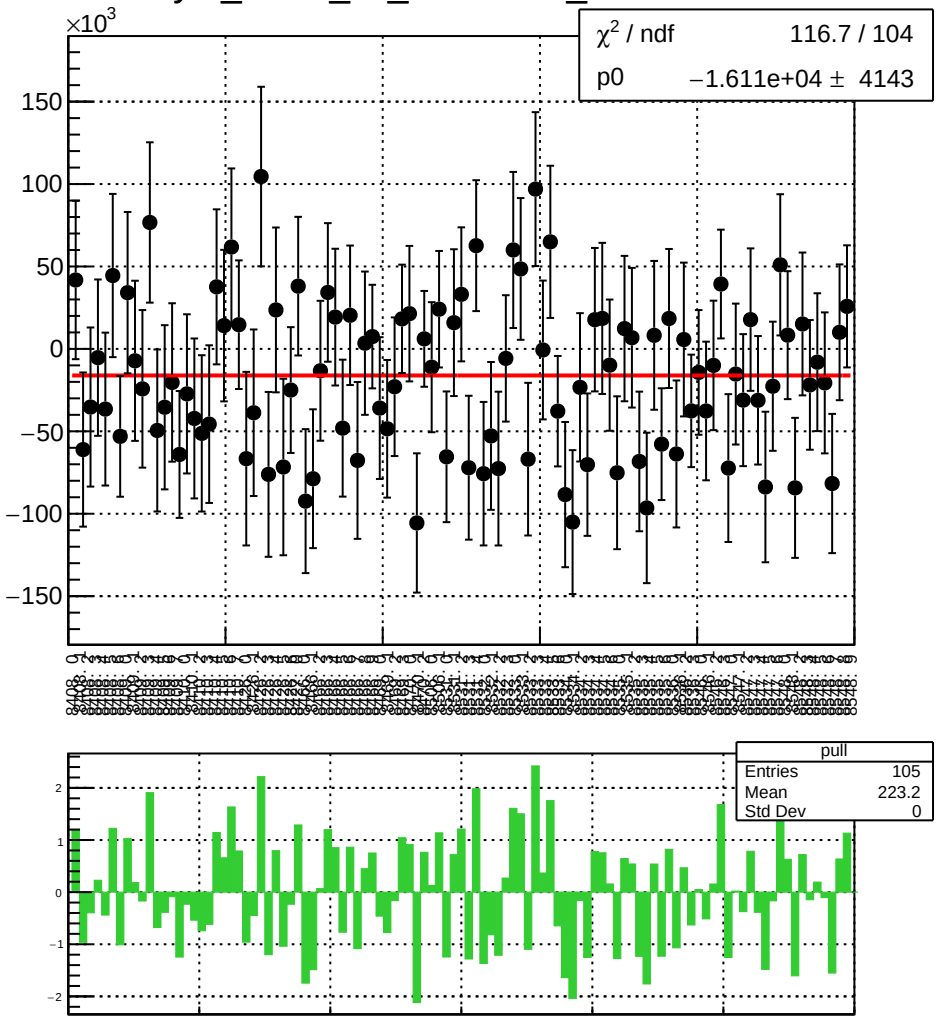

asym_sam4_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 116.5 / 104
p0 −1.561e+04 ± 4056
150
100
50
0
−50
−100
−150
pull
Entries 105
Mean 207.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 105
Mean −0.009694
Std Dev 1.053
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

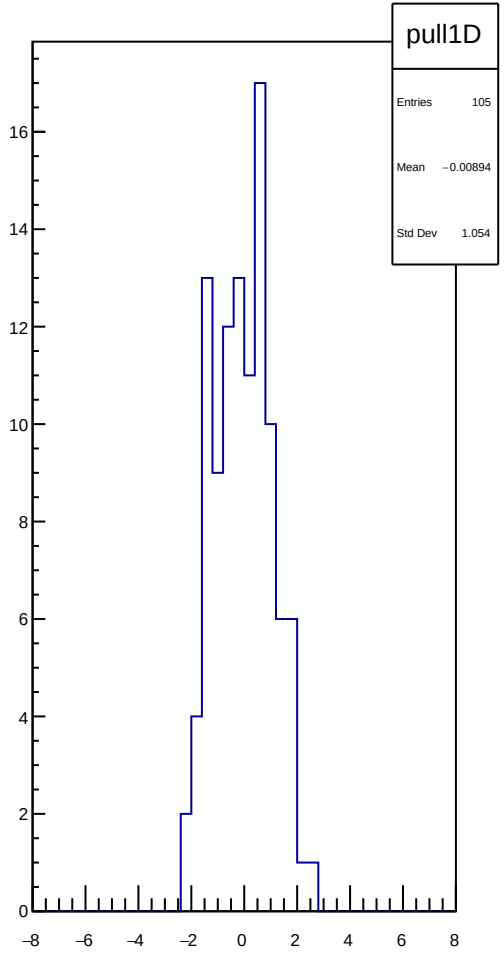

asym_sam4_eigen_cor_correction_rms vs run
χ^2 / ndf 1.337e+04 / 104
p0 4089 ± 2.868
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400

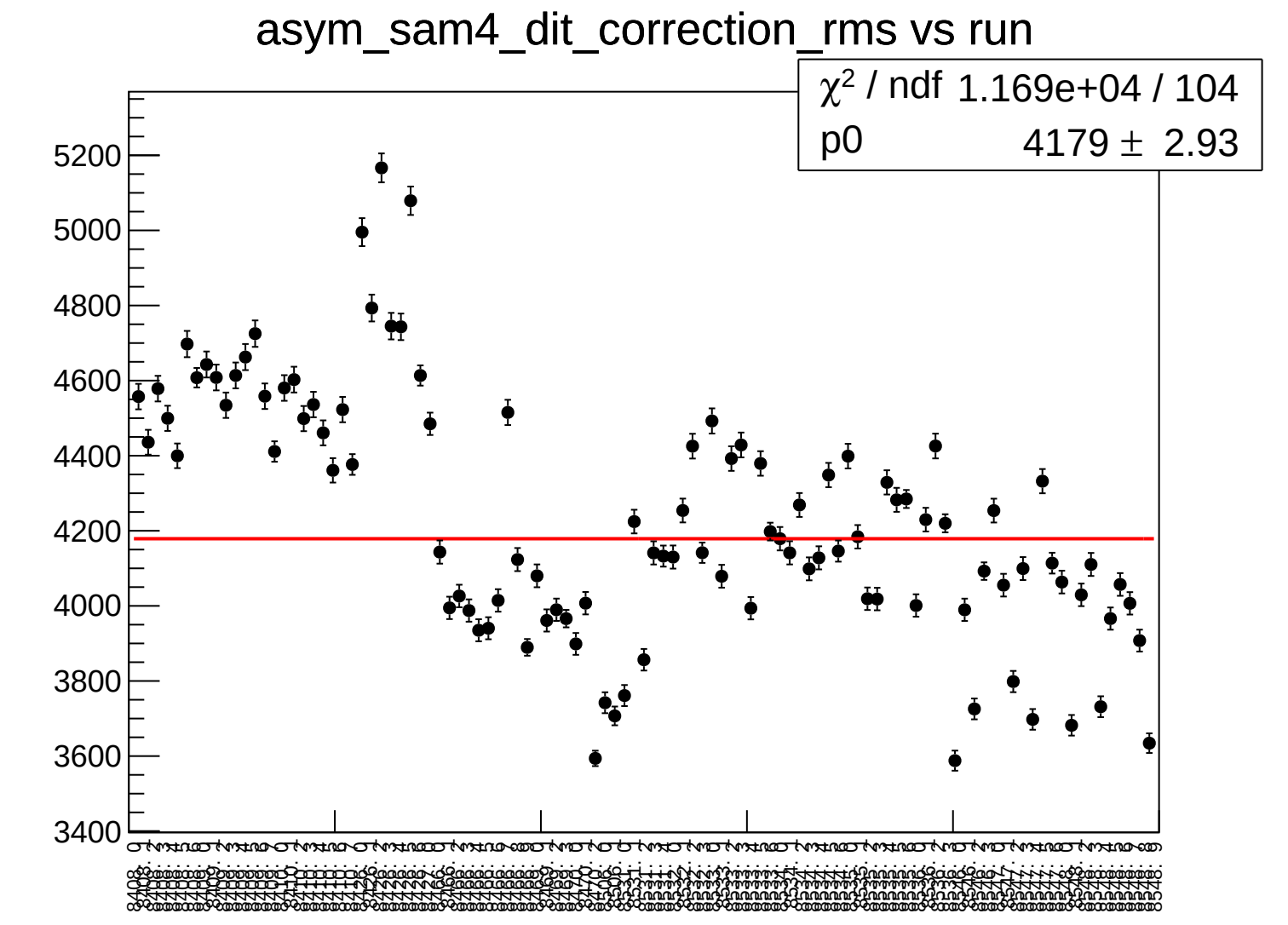

dit_asym_sam4_mean vs run
χ² / ndf 97.04 / 104
p0 −62.96 ± 323.5
10000
5000
0
−5000
−10000
−15000
pull
Entries 105
Mean 261.6
Std Dev 0
2
1
0
−1
−2

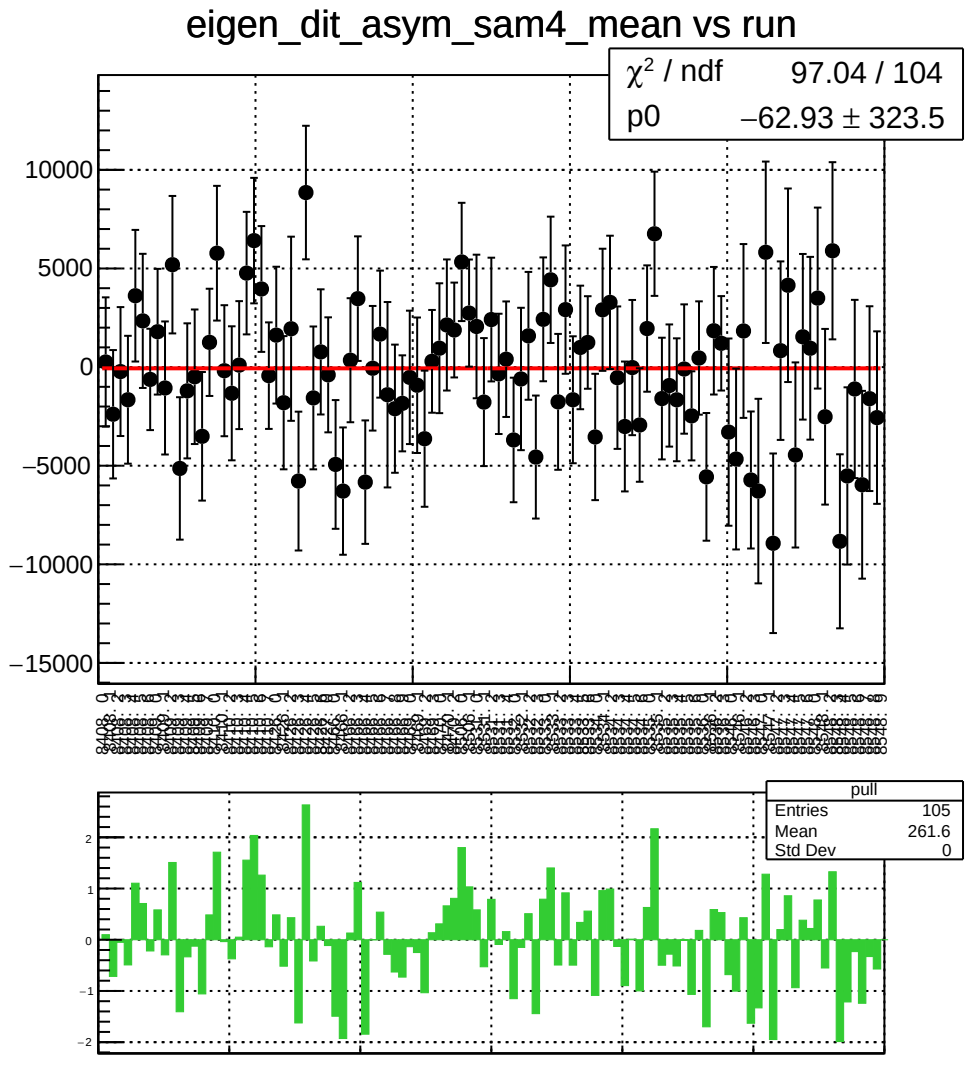

pull1D
Entries 105
Mean −0.02289
Std Dev 0.9611
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

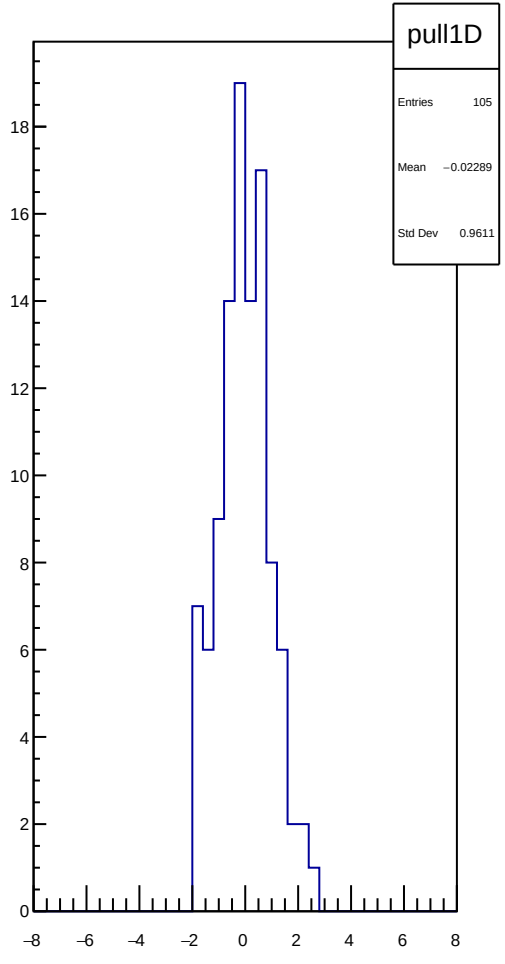

dit_asym_sam4_rms vs run
χ² / ndf 3.703e+04 / 104
p0 324.3 ± 0.2288
480
460
440
420
400
380
360
340
320
300
280
260

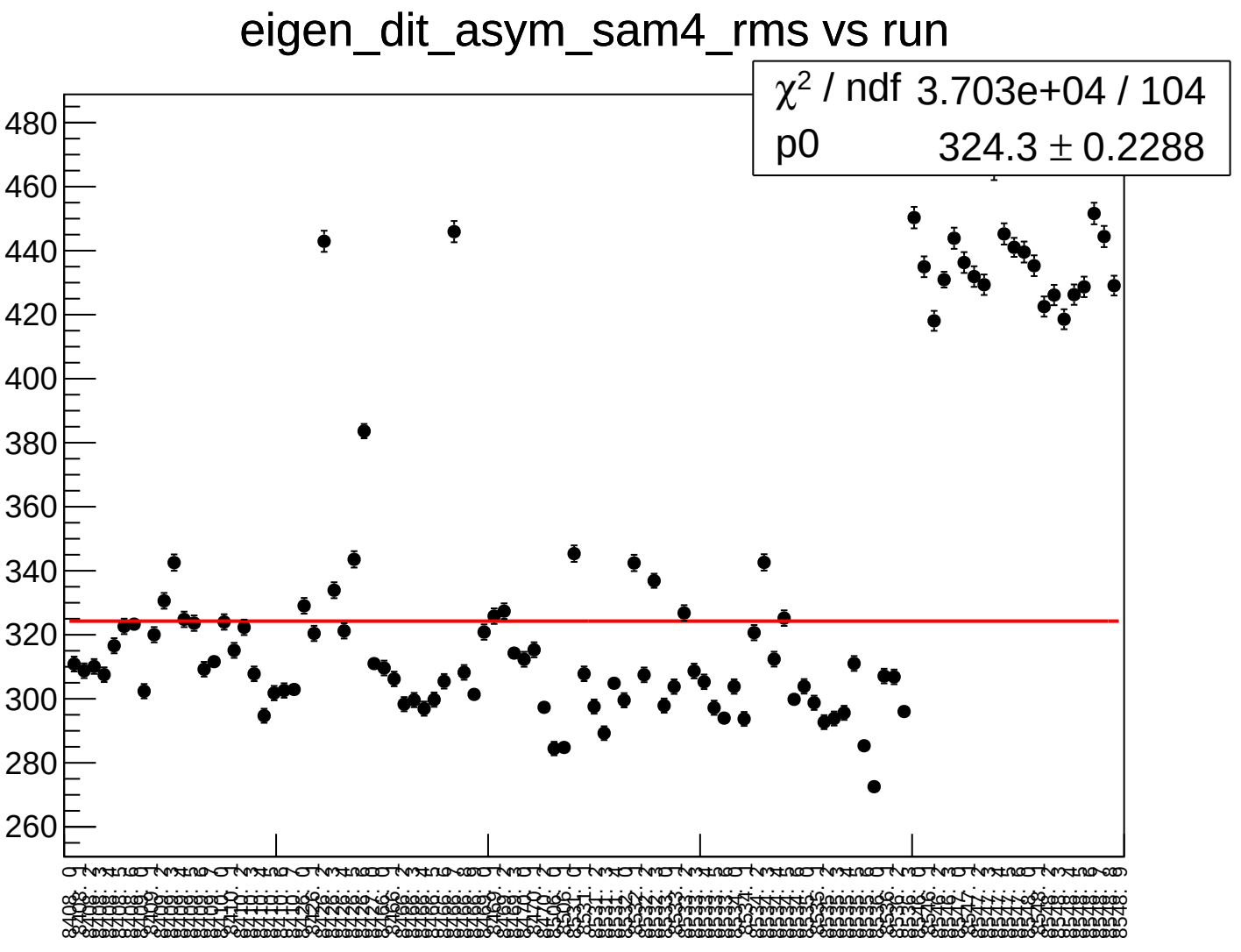

asym_sam4_dit_correction_mean vs run
×10^3
χ² / ndf 116.7 / 104
p0 −1.611e+04 ± 4143
150
100
50
0
−50
−100
−150
pull
Entries 105
Mean 223.2
Std Dev 0
2
1
0
−1
−2

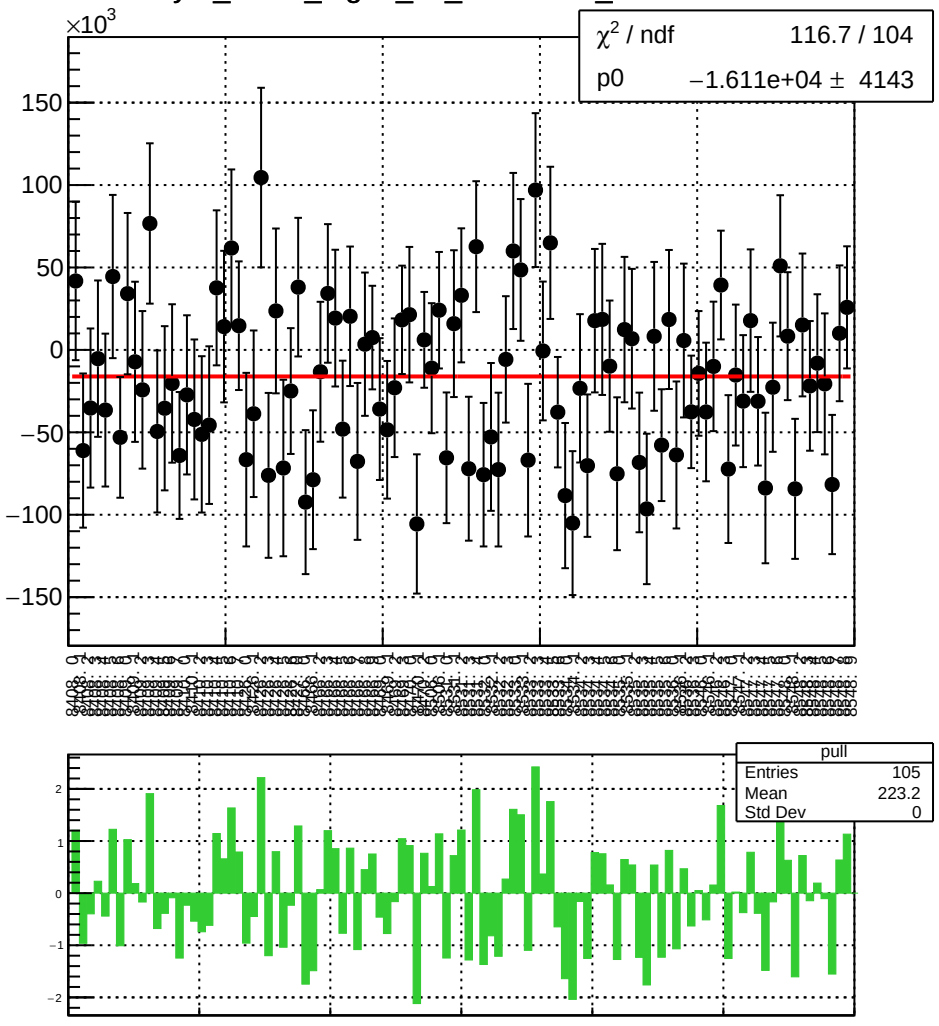

pull1D
Entries 105
Mean −0.00894
Std Dev 1.054
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

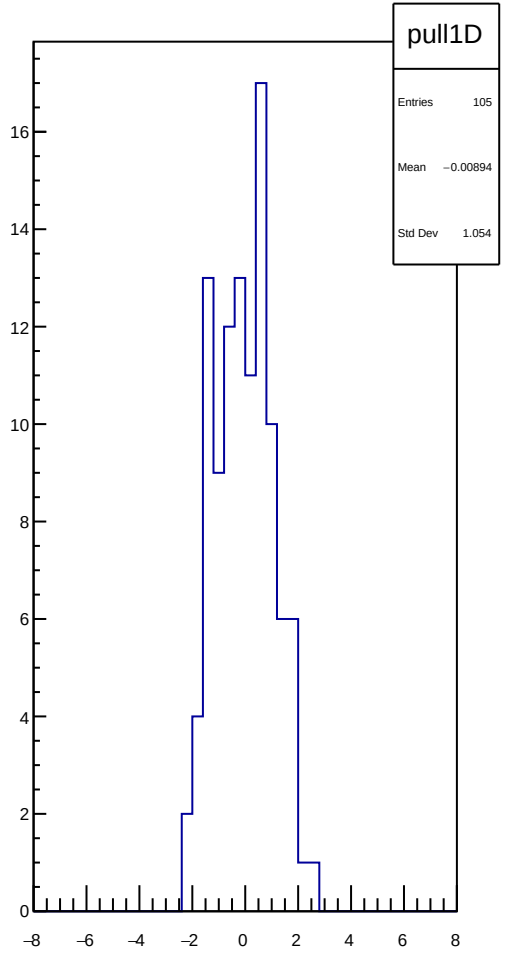

asym_sam4_dit_correction_rms vs run
χ² / ndf 1.169e+04 / 104
p0 4179 ± 2.93
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400

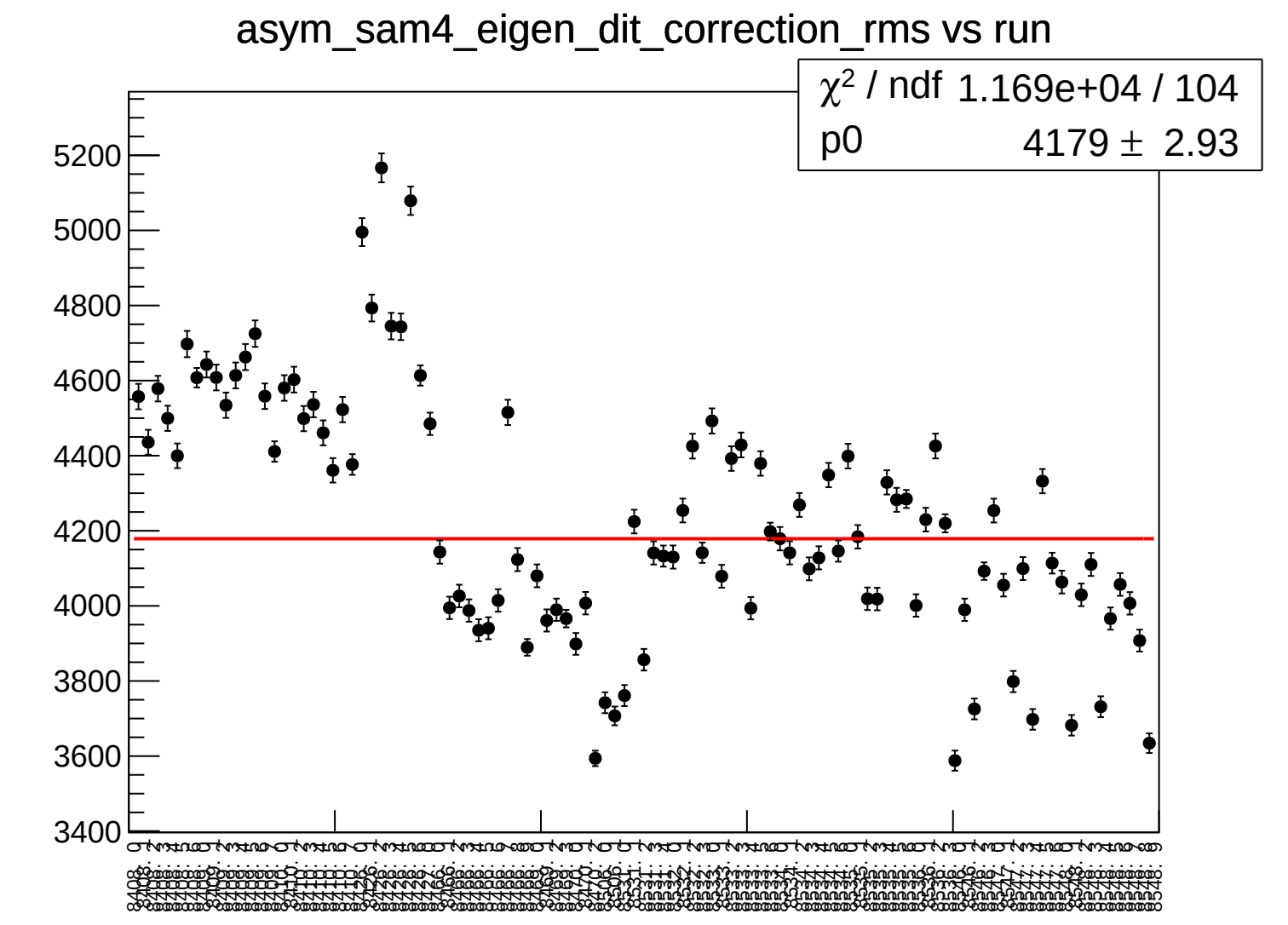

eigen_dit_asym_sam4_mean vs run
χ² / ndf 97.04 / 104
p0 −62.93 ± 323.5
10000
5000
0
−5000
−10000
−15000
pull
Entries 105
Mean 261.6
Std Dev 0
2
1
0
−1
−2

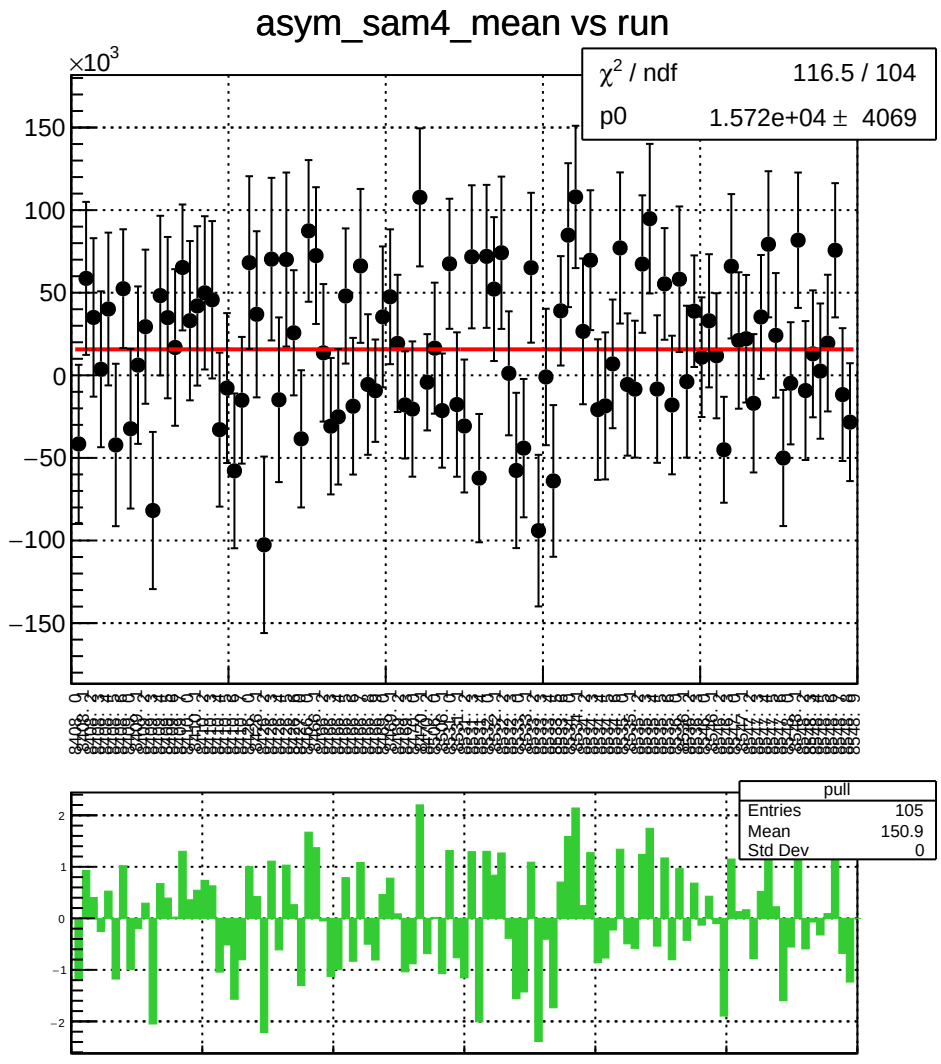

pull1D
Entries 105
Mean −0.02289
Std Dev 0.9611
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

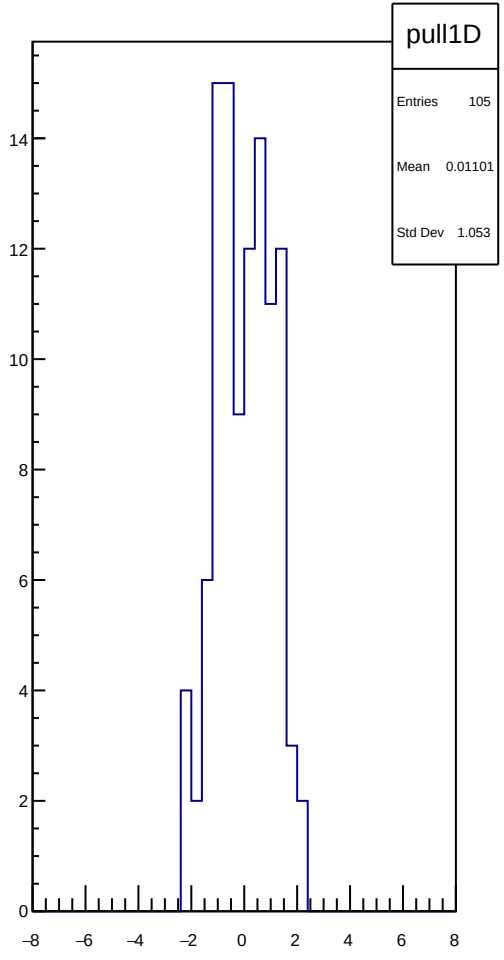

eigen_dit_asym_sam4_rms vs run
χ² / ndf 3.703e+04 / 104
p0 324.3 ± 0.2288
480
460
440
420
400
380
360
340
320
300
280
260

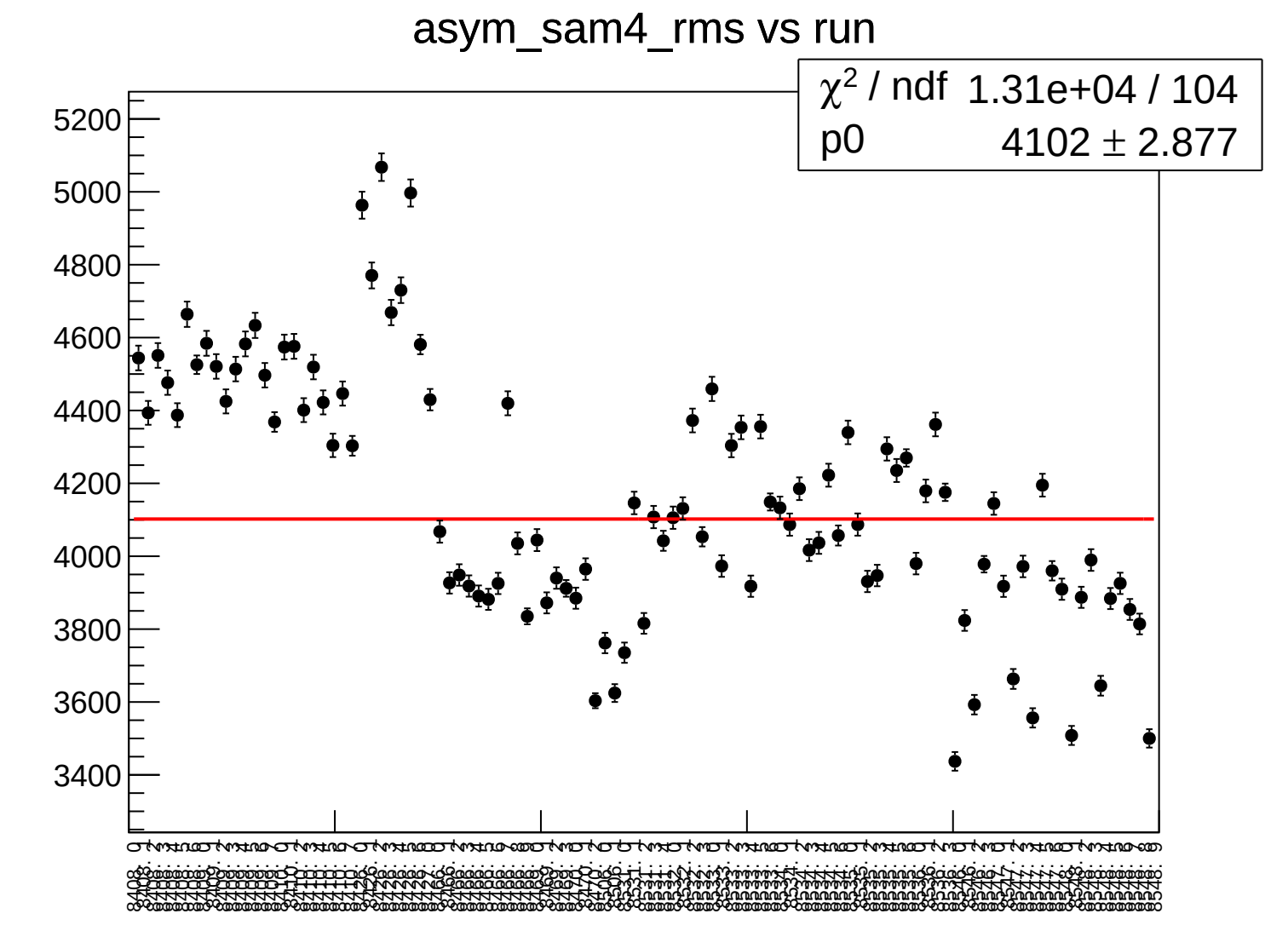

asym_sam4_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 116.7 / 104
p0 −1.611e+04 ± 4143
150
100
50
0
−50
−100
−150
pull
Entries 105
Mean 223.2
Std Dev 0
2
1
0
−1
−2

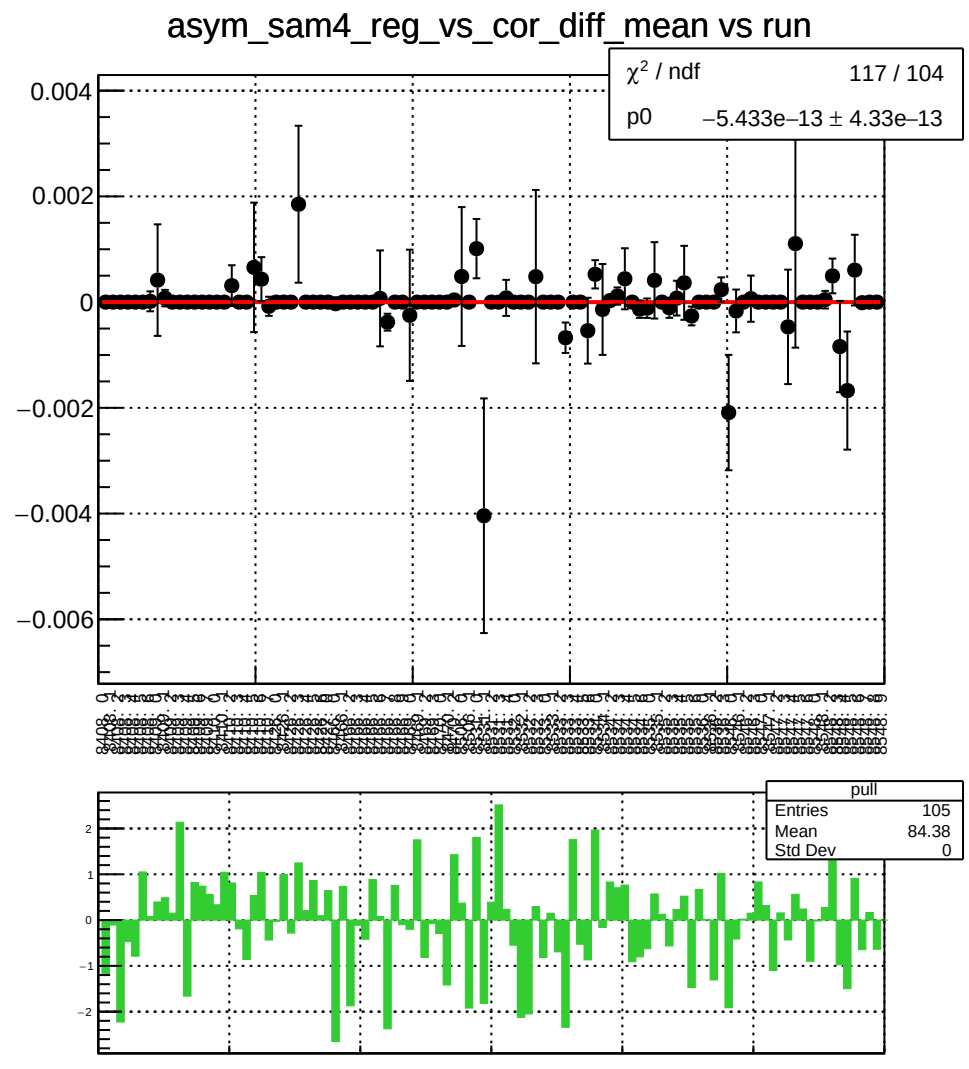

pull1D
Entries 105
Mean −0.00894
Std Dev 1.054
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

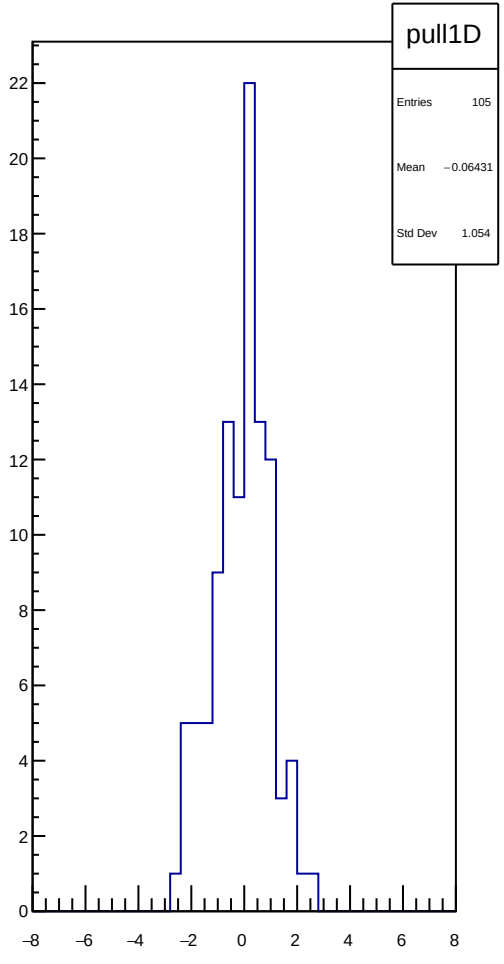

asym_sam4_eigen_dit_correction_rms vs run
χ² / ndf 1.169e+04 / 104
p0 4179 ± 2.93
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400

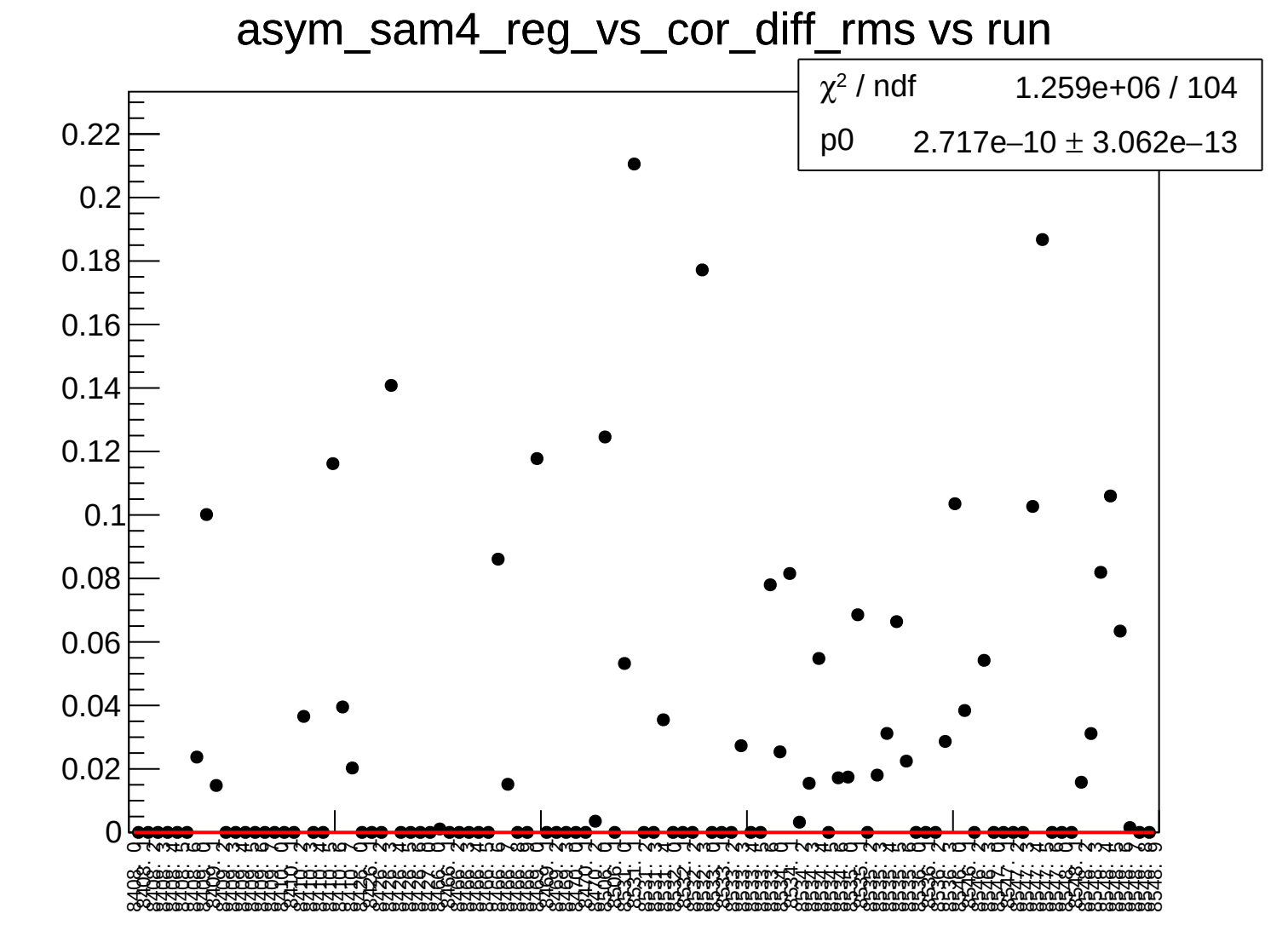

asym_sam4_mean vs run
×10^3
χ² / ndf 116.5 / 104
p0 1.572e+04 ± 4069
150
100
50
0
−50
−100
−150
pull
Entries 105
Mean 150.9
Std Dev 0
2
1
0
−1
−2

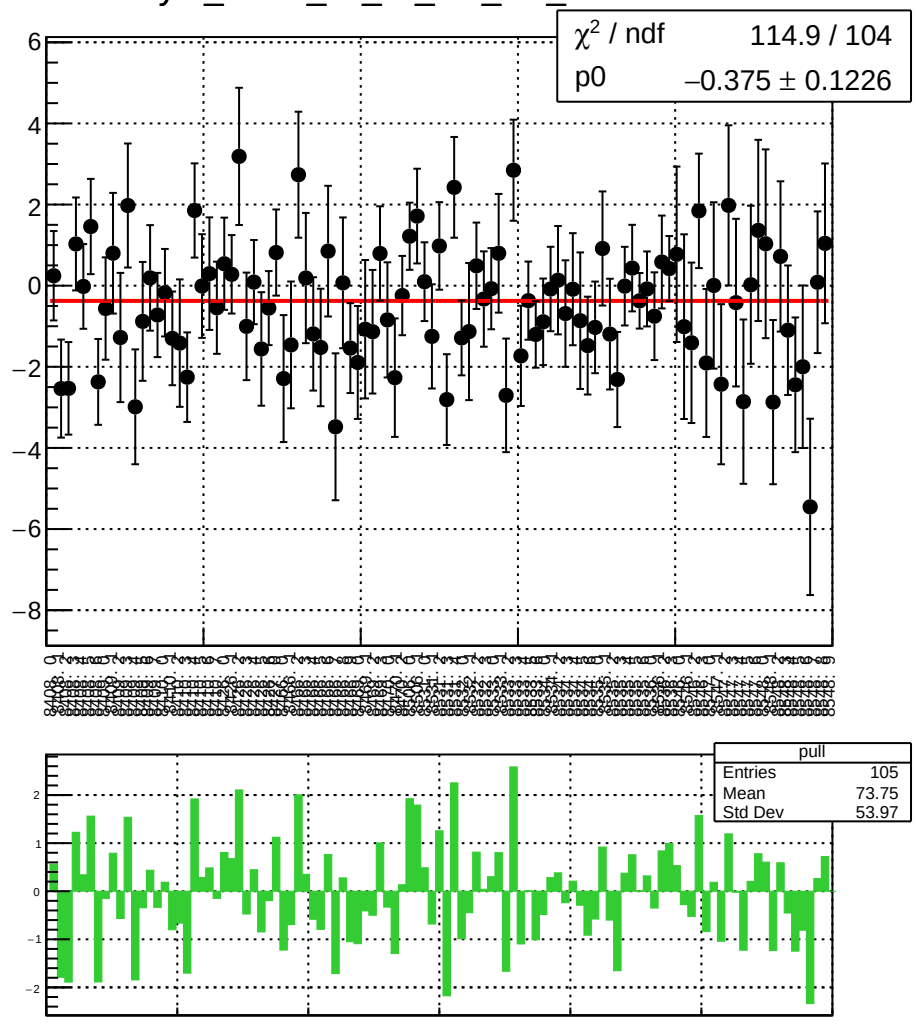

pull1D
Entries 105
Mean 0.01101
Std Dev 1.053
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

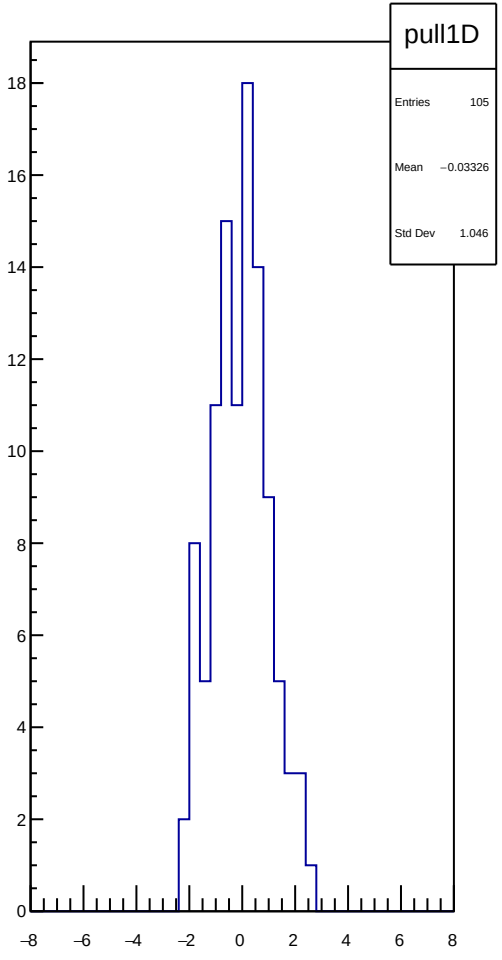

asym_sam4_rms vs run
χ^2 / ndf 1.31e+04 / 104
p0 4102 ± 2.877
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400

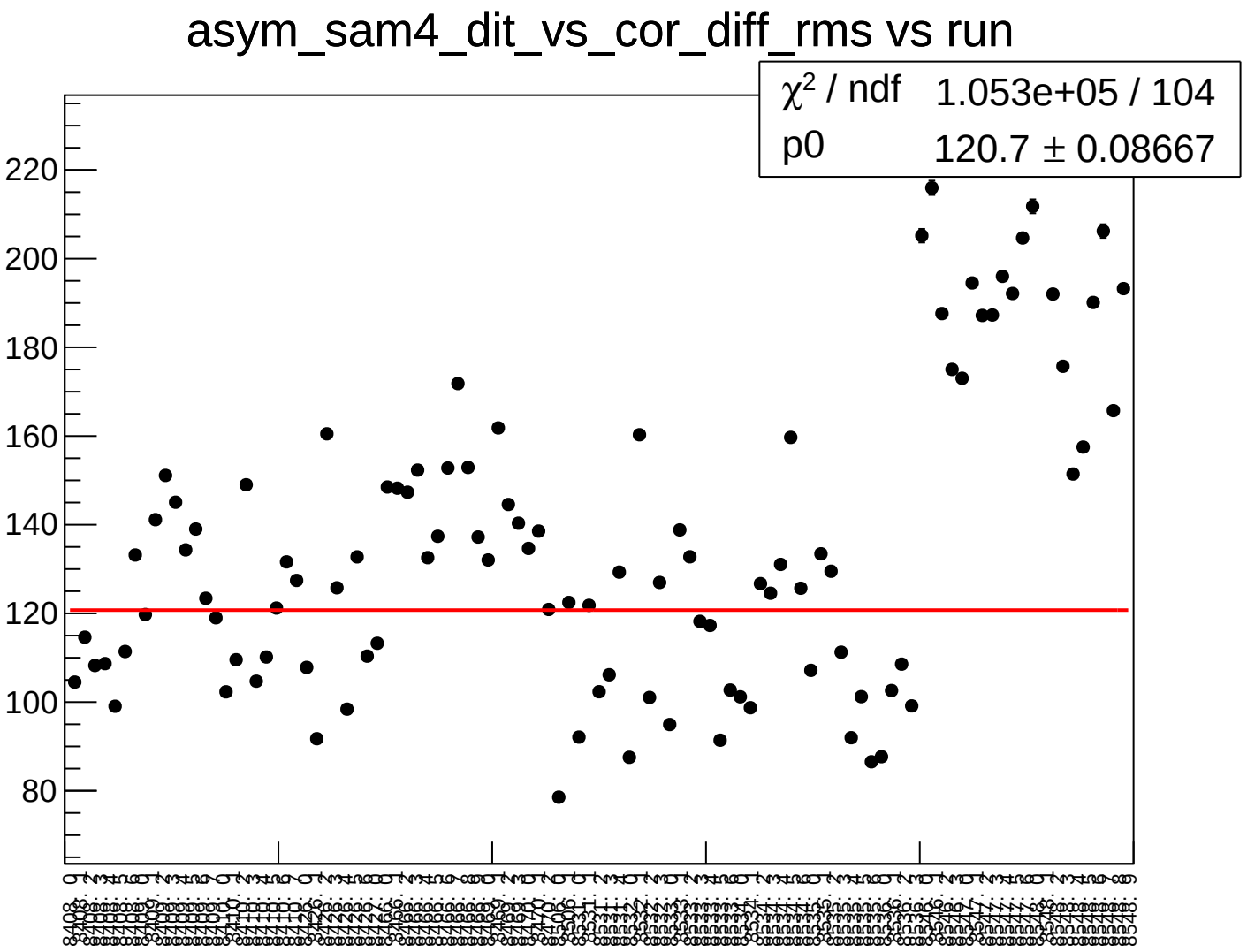

asym_sam4_reg_vs_cor_diff_mean vs run
χ² / ndf 117 / 104
p0 −5.433e−13 ± 4.33e−13
0.004
0.002
0
−0.002
−0.004
−0.006
pull
Entries 105
Mean 84.38
Std Dev 0
2
1
0
−1
−2

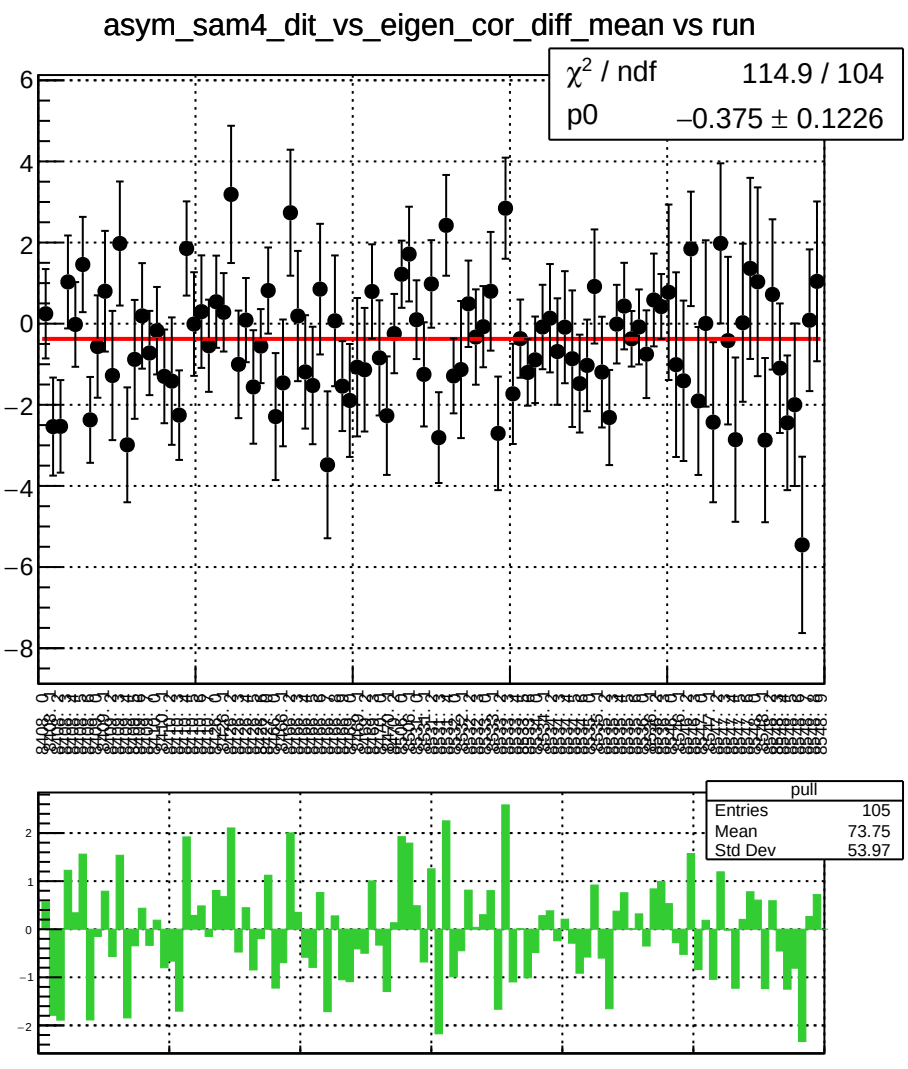

pull1D
Entries 105
Mean −0.06431
Std Dev 1.054
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

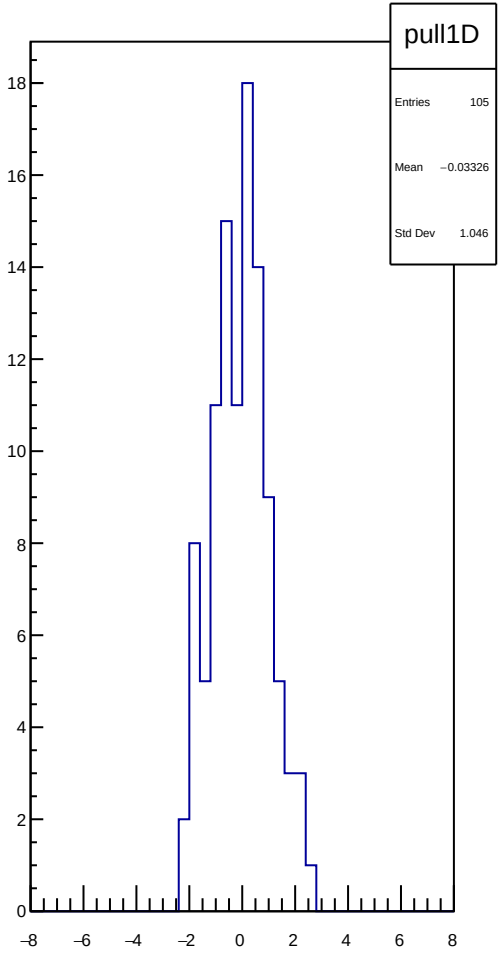

asym_sam4_reg_vs_cor_diff_rms vs run
χ² / ndf 1.259e+06 / 104
p0 2.717e−10 ± 3.062e−13
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

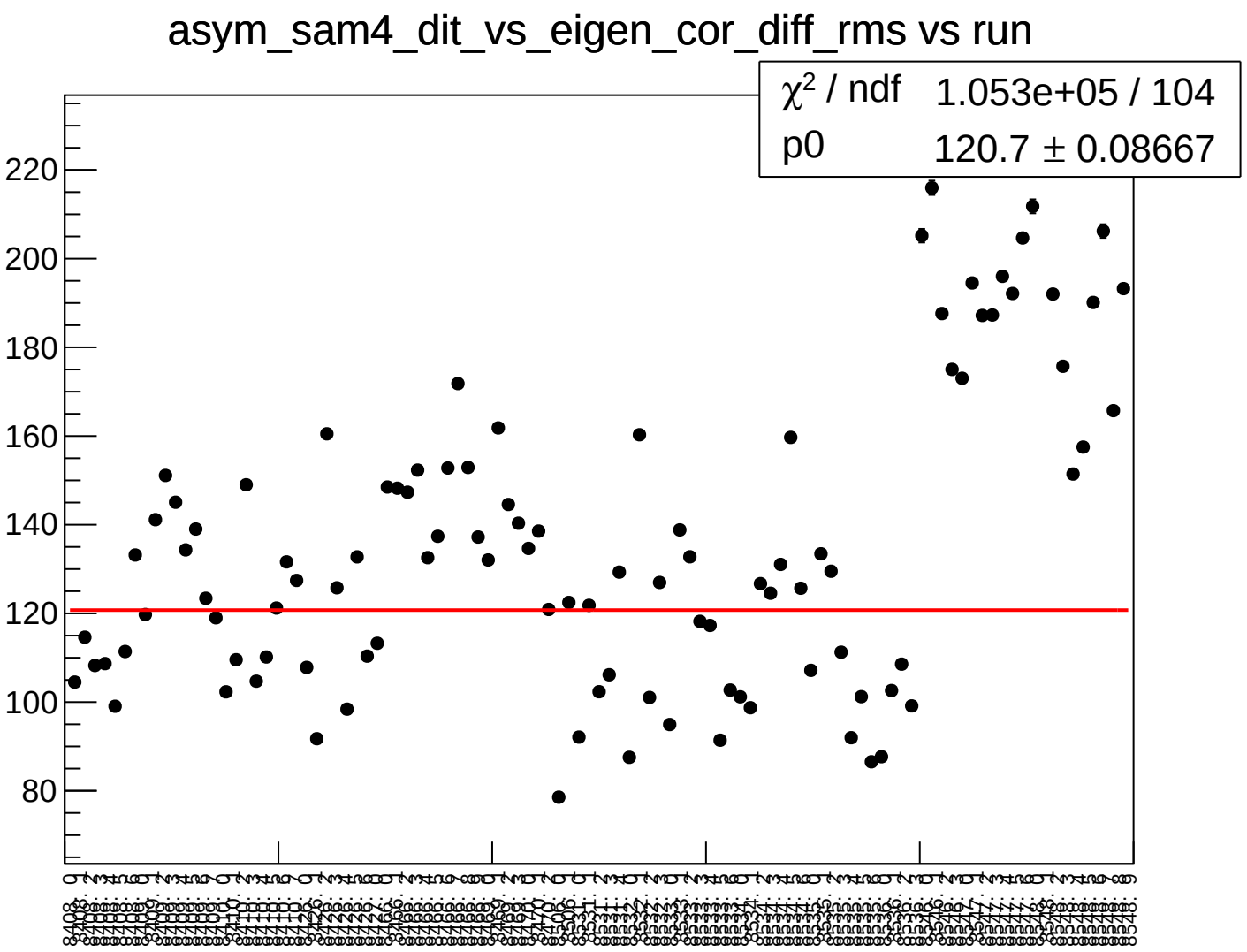

asym_sam4_dit_vs_cor_diff_mean vs run
χ² / ndf 114.9 / 104
p0 −0.375 ± 0.1226
pull
Entries 105
Mean 73.75
Std Dev 53.97

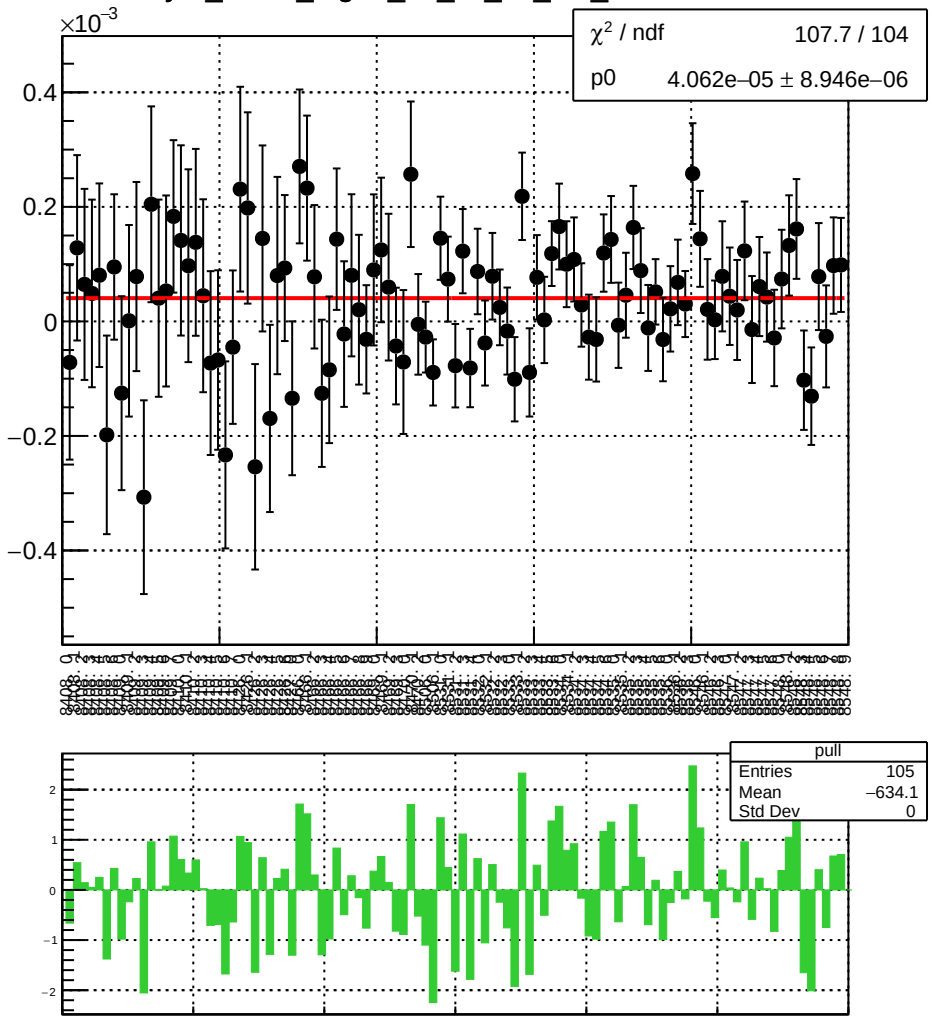

pull1D
Entries 105
Mean −0.03326
Std Dev 1.046

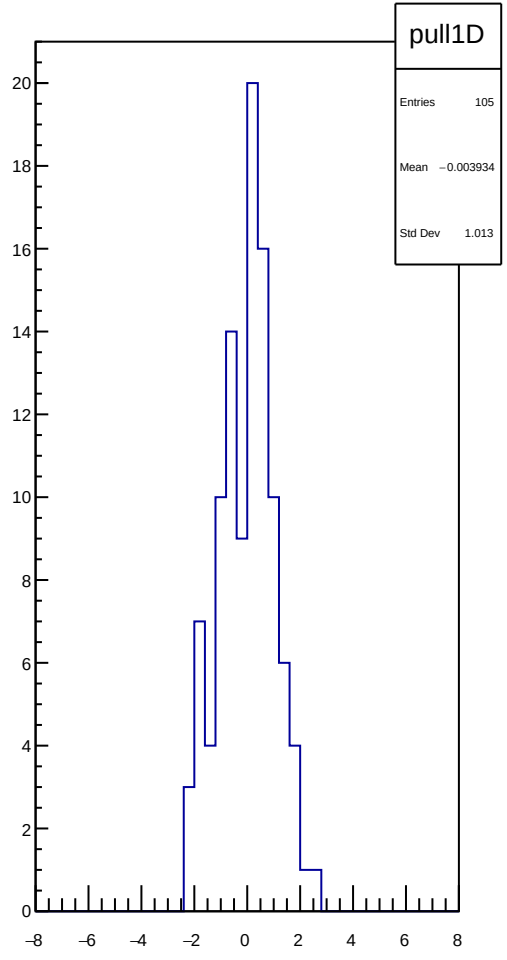

asym_sam4_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.053e+05 / 104
p0 120.7 ± 0.08667
220
200
180
160
140
120
100
80

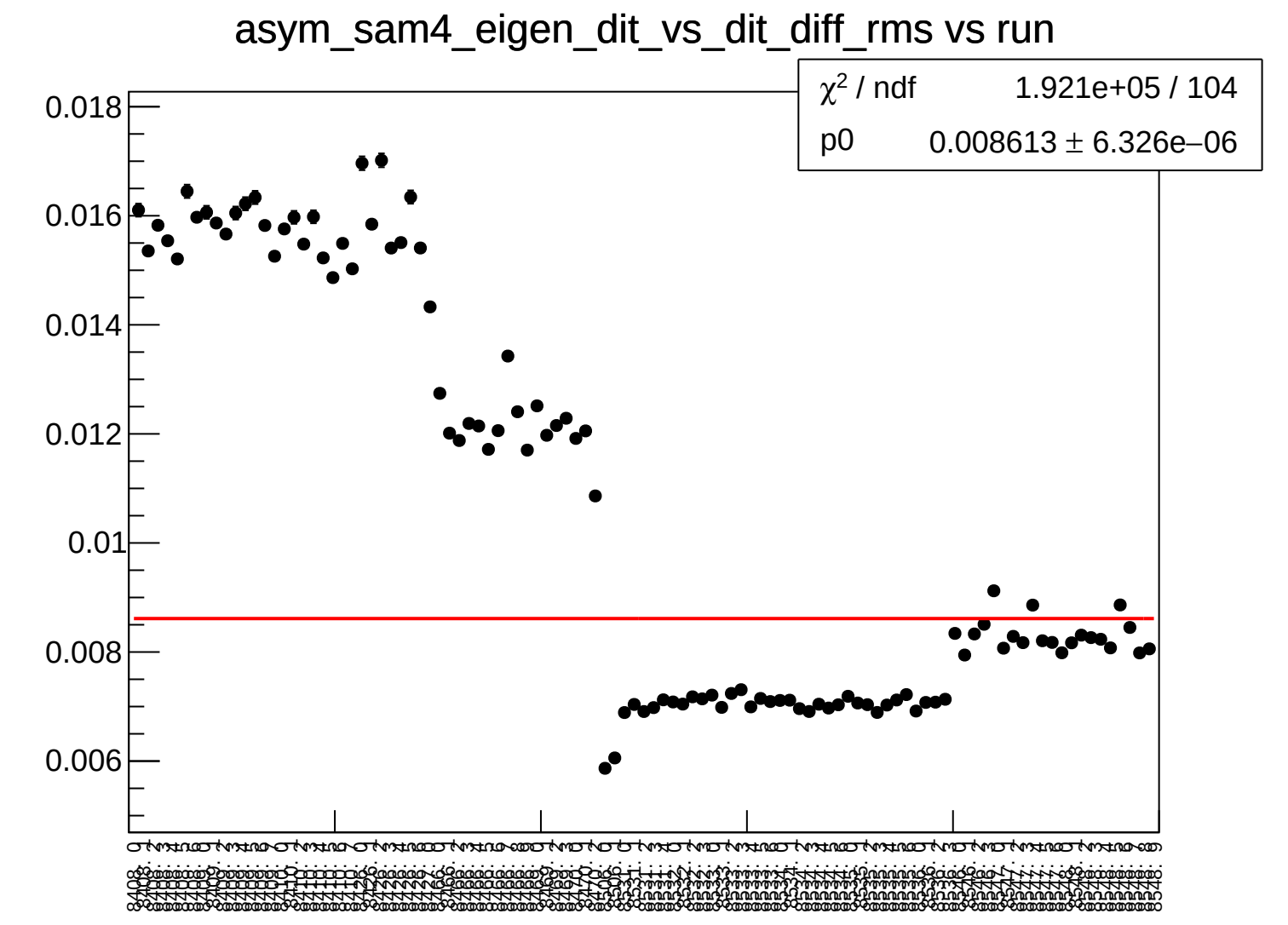

asym_sam4_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 114.9 / 104
p0 −0.375 ± 0.1226
pull
Entries 105
Mean 73.75
Std Dev 53.97

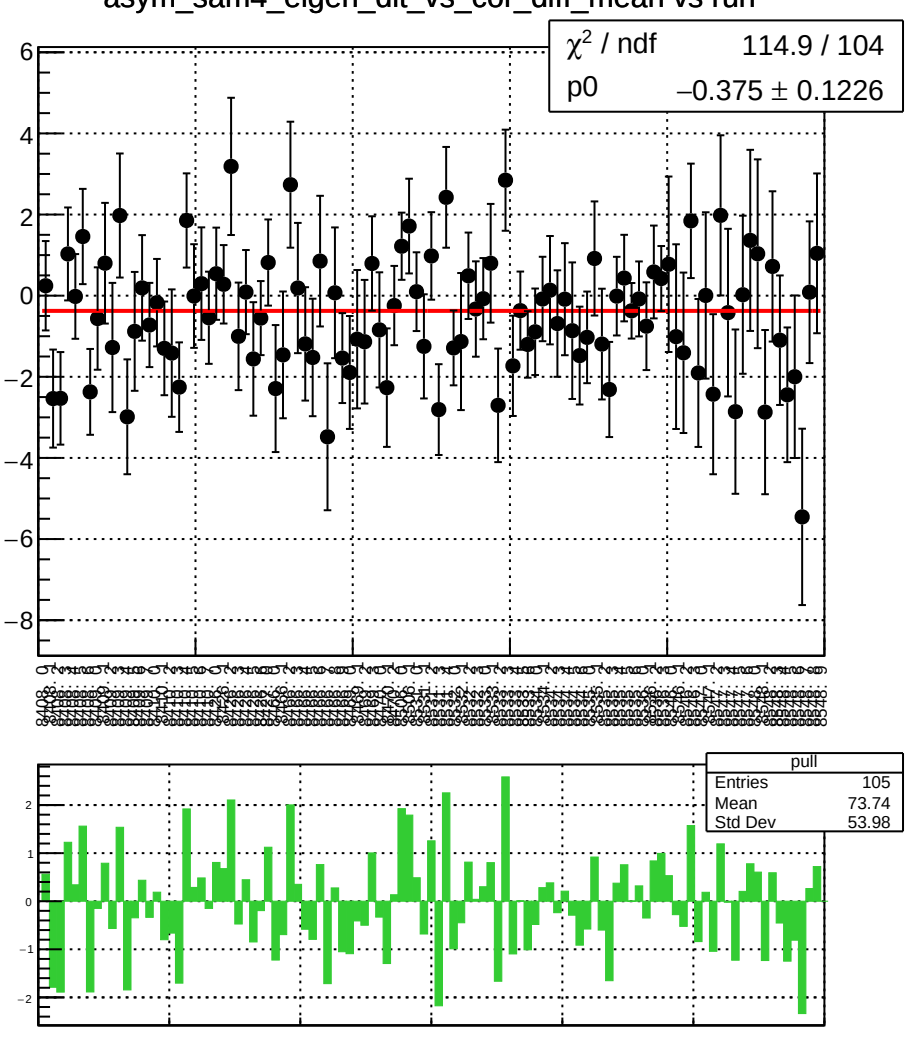

pull1D
Entries 105
Mean −0.03326
Std Dev 1.046

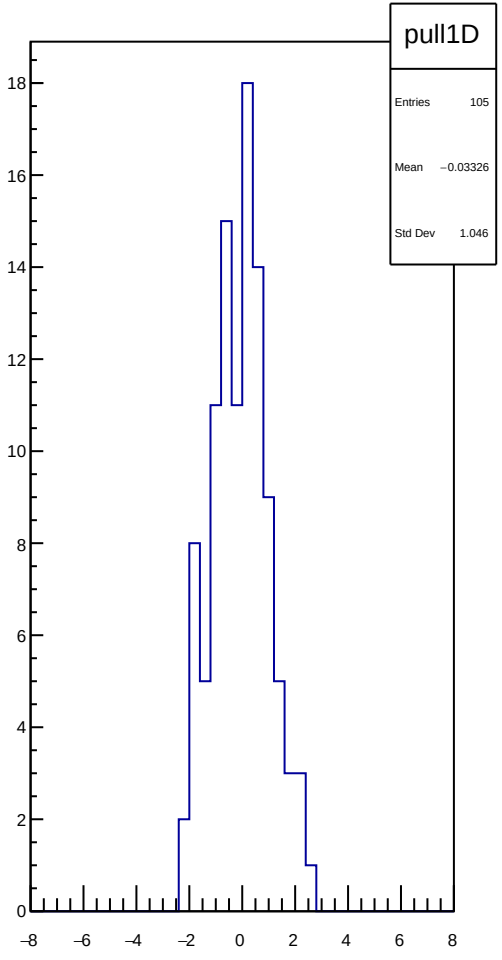

asym_sam4_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.053e+05 / 104
p0 120.7 ± 0.08667
220
200
180
160
140
120
100
80

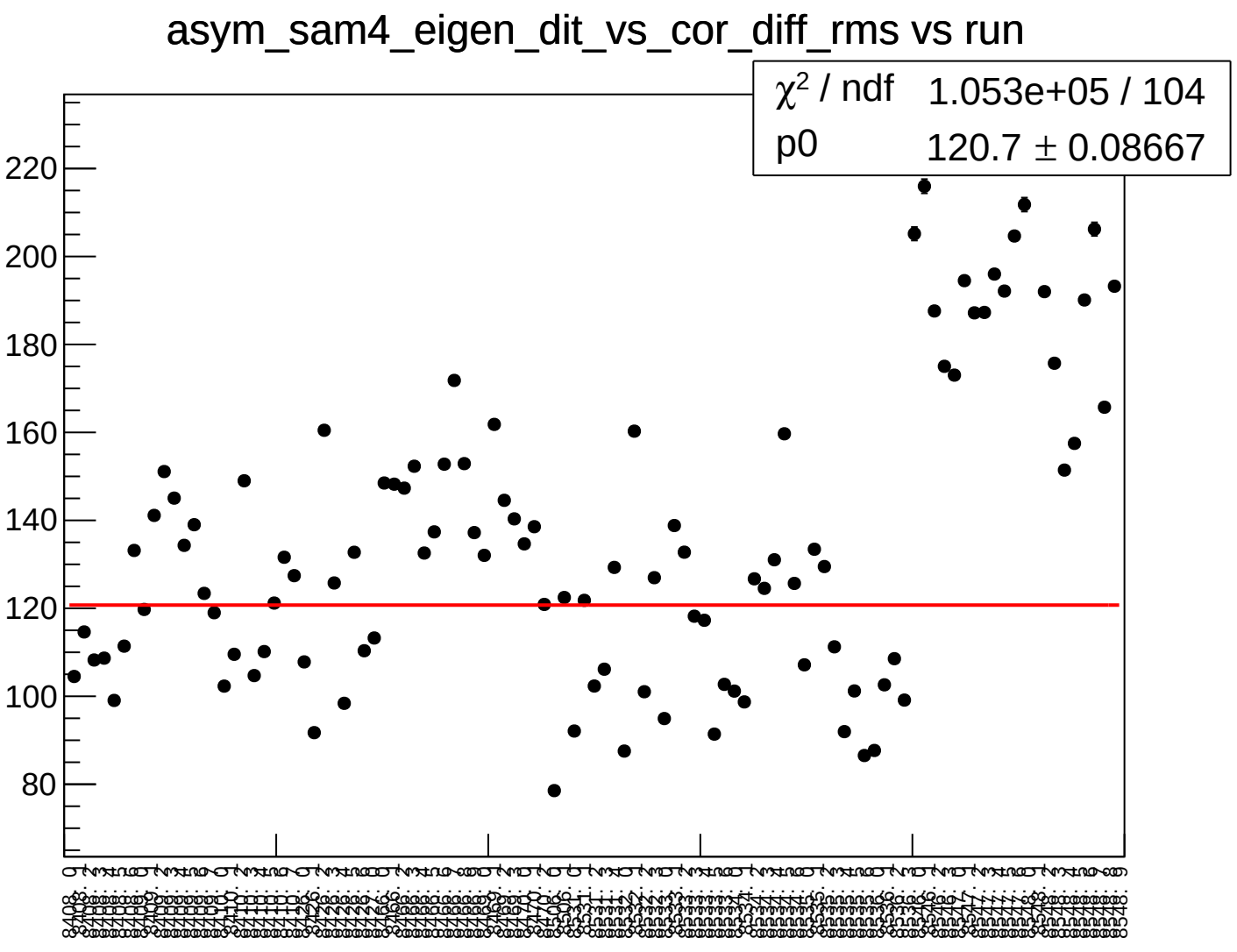

asym_sam4_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 107.7 / 104
p0 4.062e−05 ± 8.946e−06
0.4
0.2
0
−0.2
−0.4
pull
Entries 105
Mean −634.1
Std Dev 0
2
1
0
−1
−2

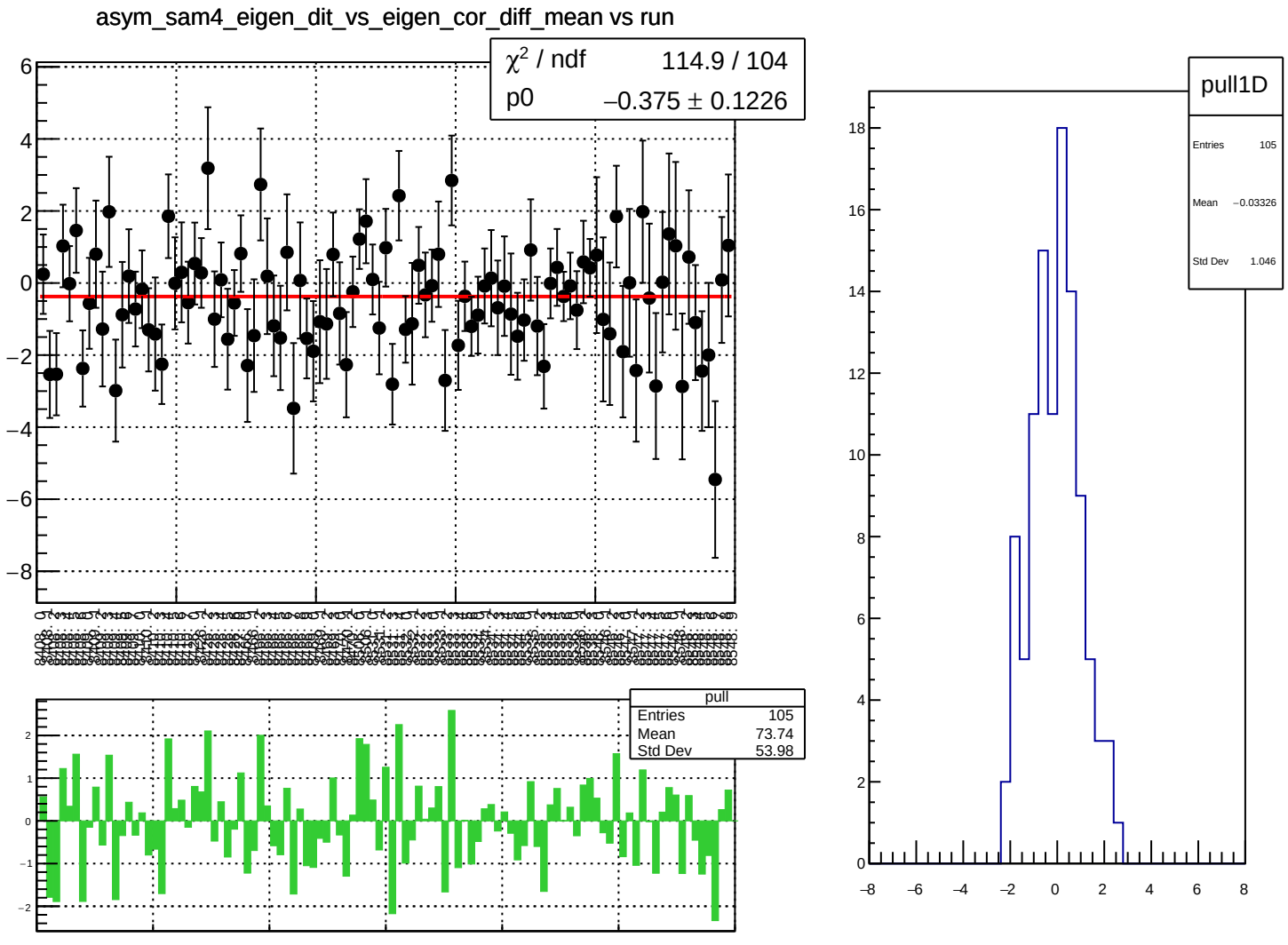

pull1D
Entries 105
Mean −0.003934
Std Dev 1.013
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

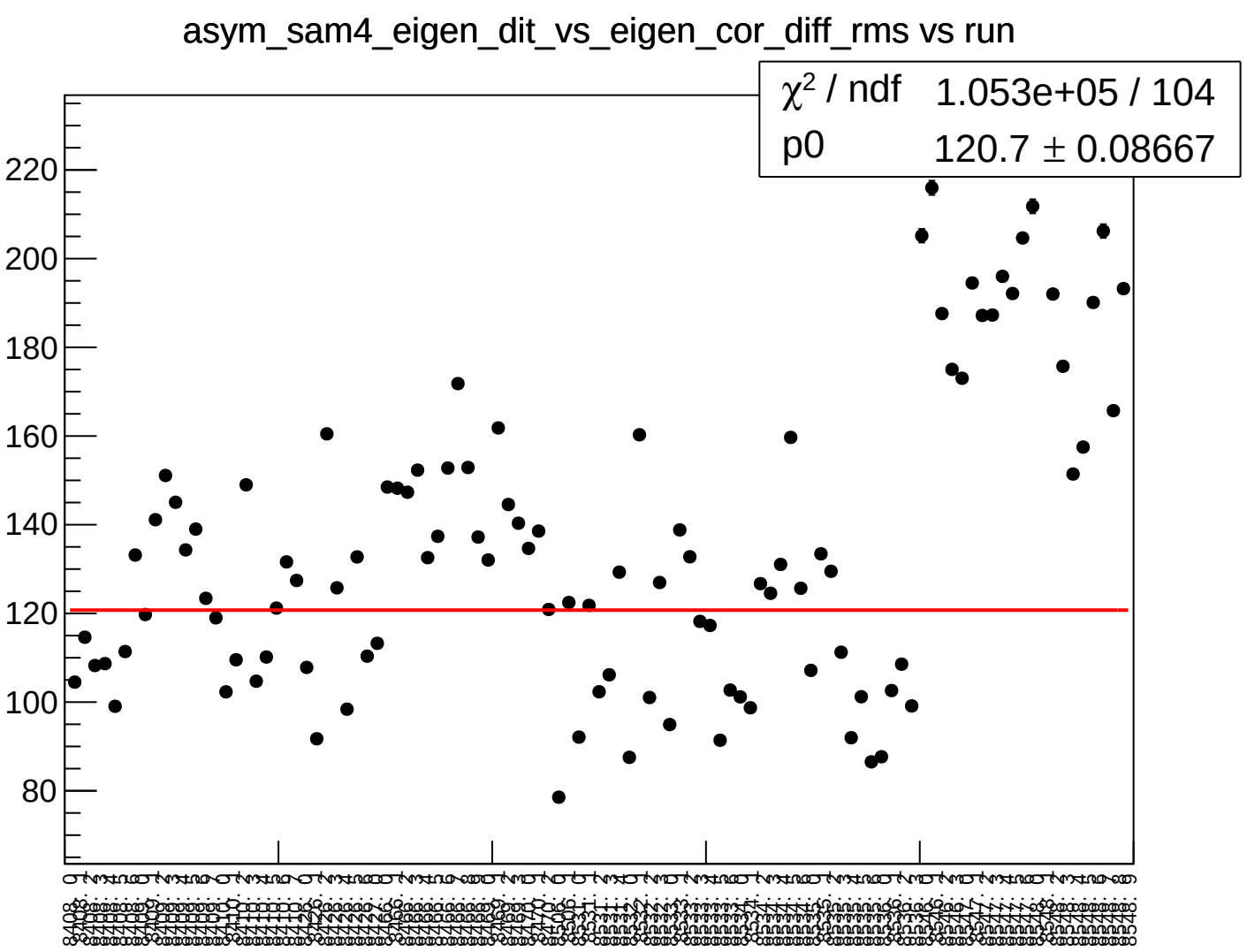

asym_sam4_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.921e+05 / 104
p0 0.008613 ± 6.326e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006

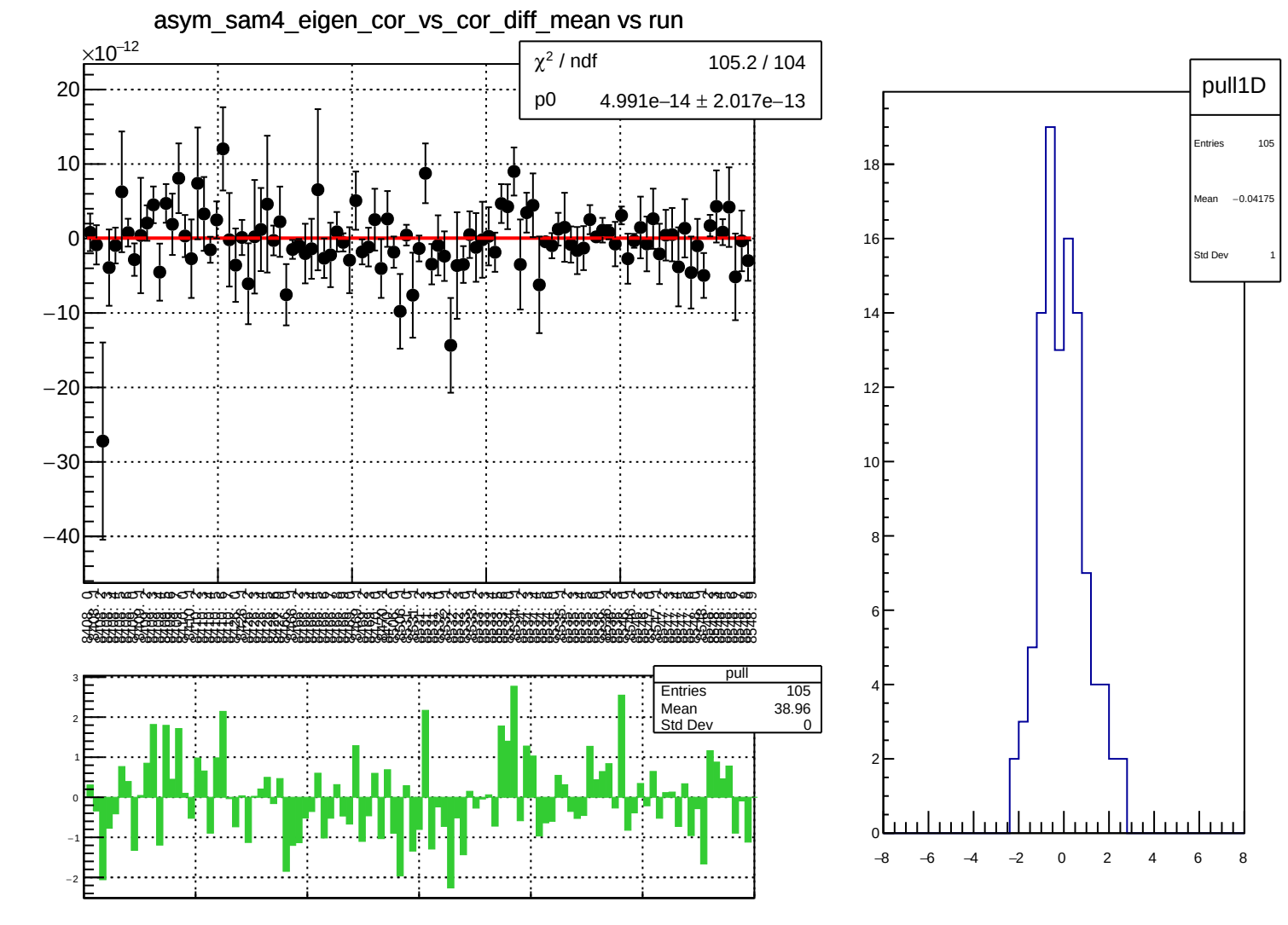

asym_sam4_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 114.9 / 104
p0 −0.375 ± 0.1226
pull
Entries 105
Mean 73.74
Std Dev 53.98

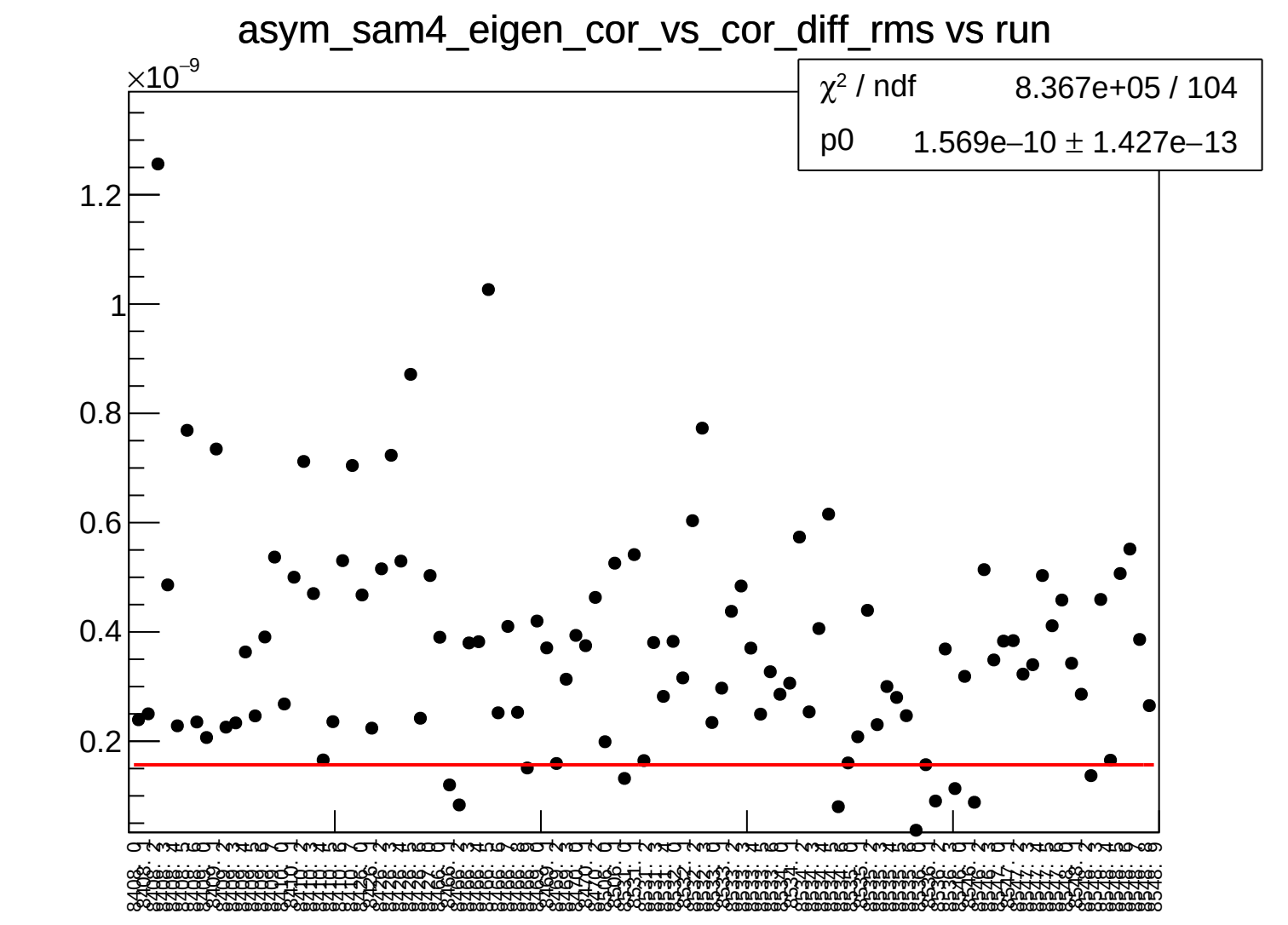

pull1D
Entries 105
Mean −0.03326
Std Dev 1.046

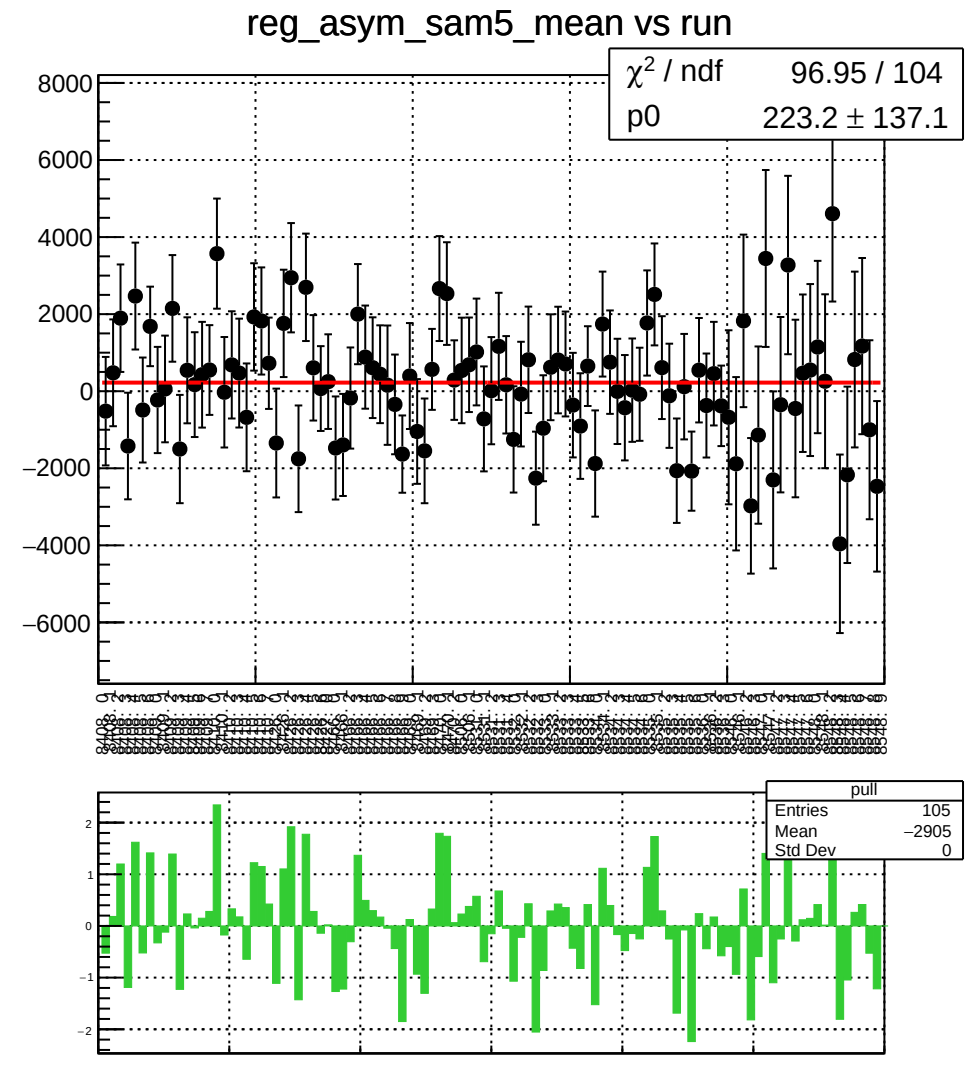

asym_sam4_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.053e+05 / 104
p0 120.7 ± 0.08667
220
200
180
160
140
120
100
80

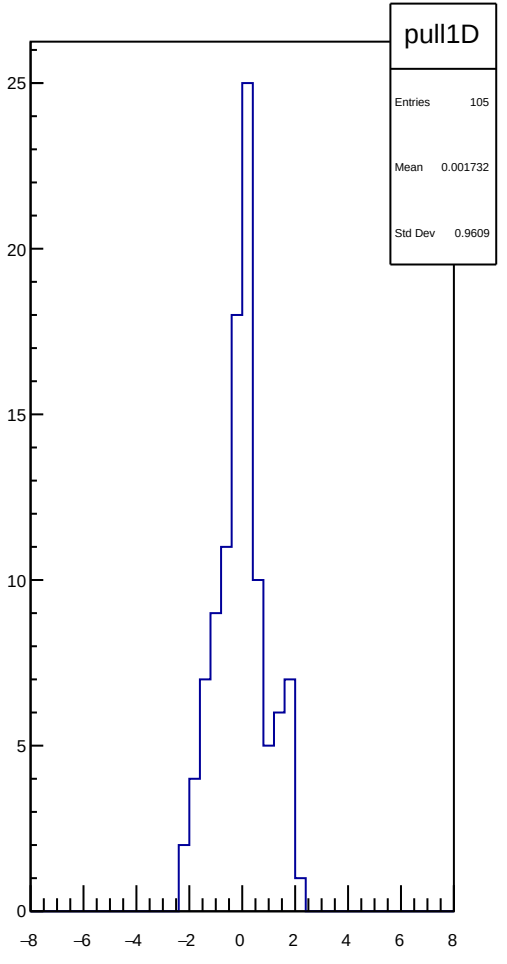

asym_sam4_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 114.9 / 104
p0 −0.375 ± 0.1226
pull
Entries 105
Mean 73.74
Std Dev 53.98
pull1D
Entries 105
Mean −0.03326
Std Dev 1.046

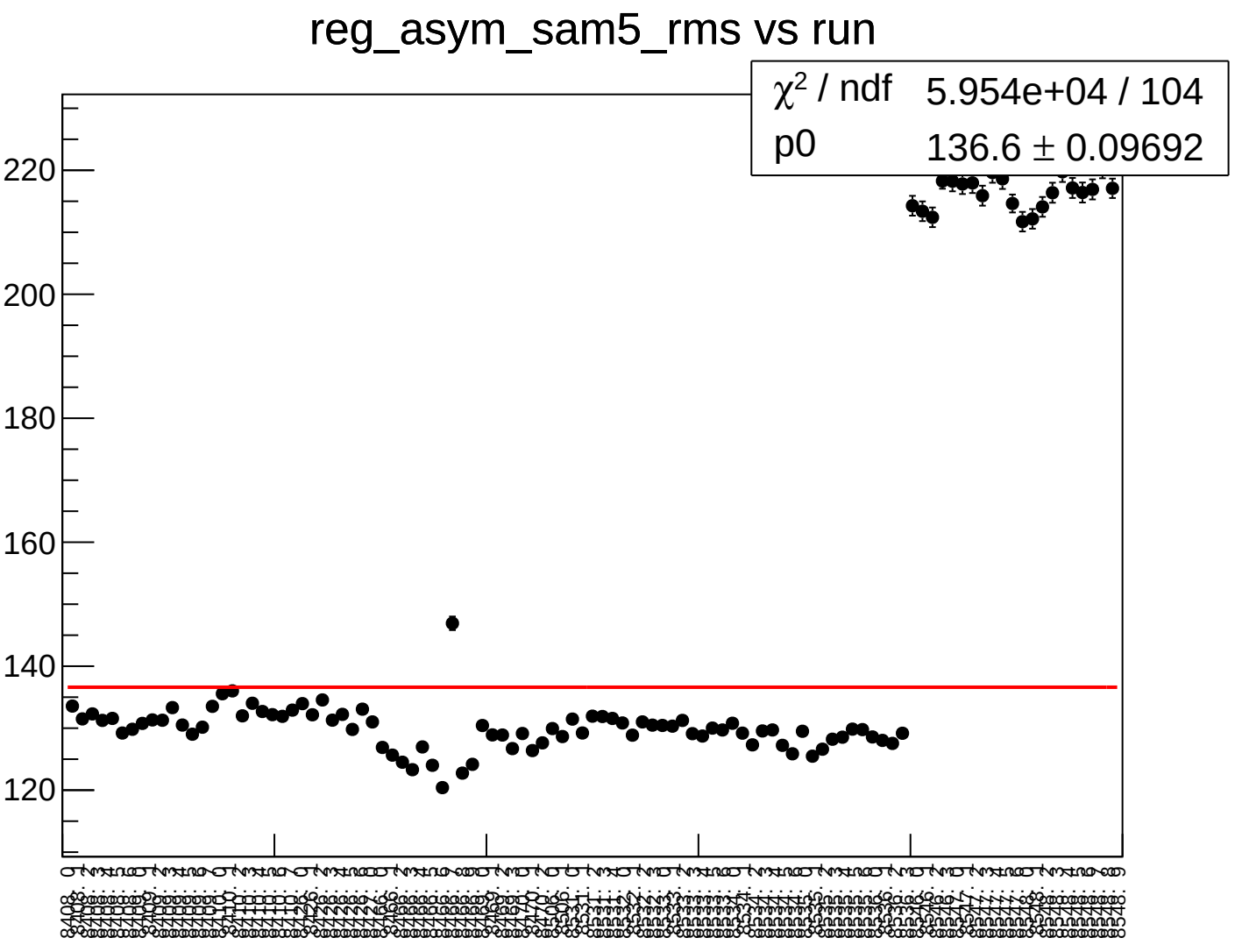

asym_sam4_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.053e+05 / 104
p0 120.7 ± 0.08667
220
200
180
160
140
120
100
80

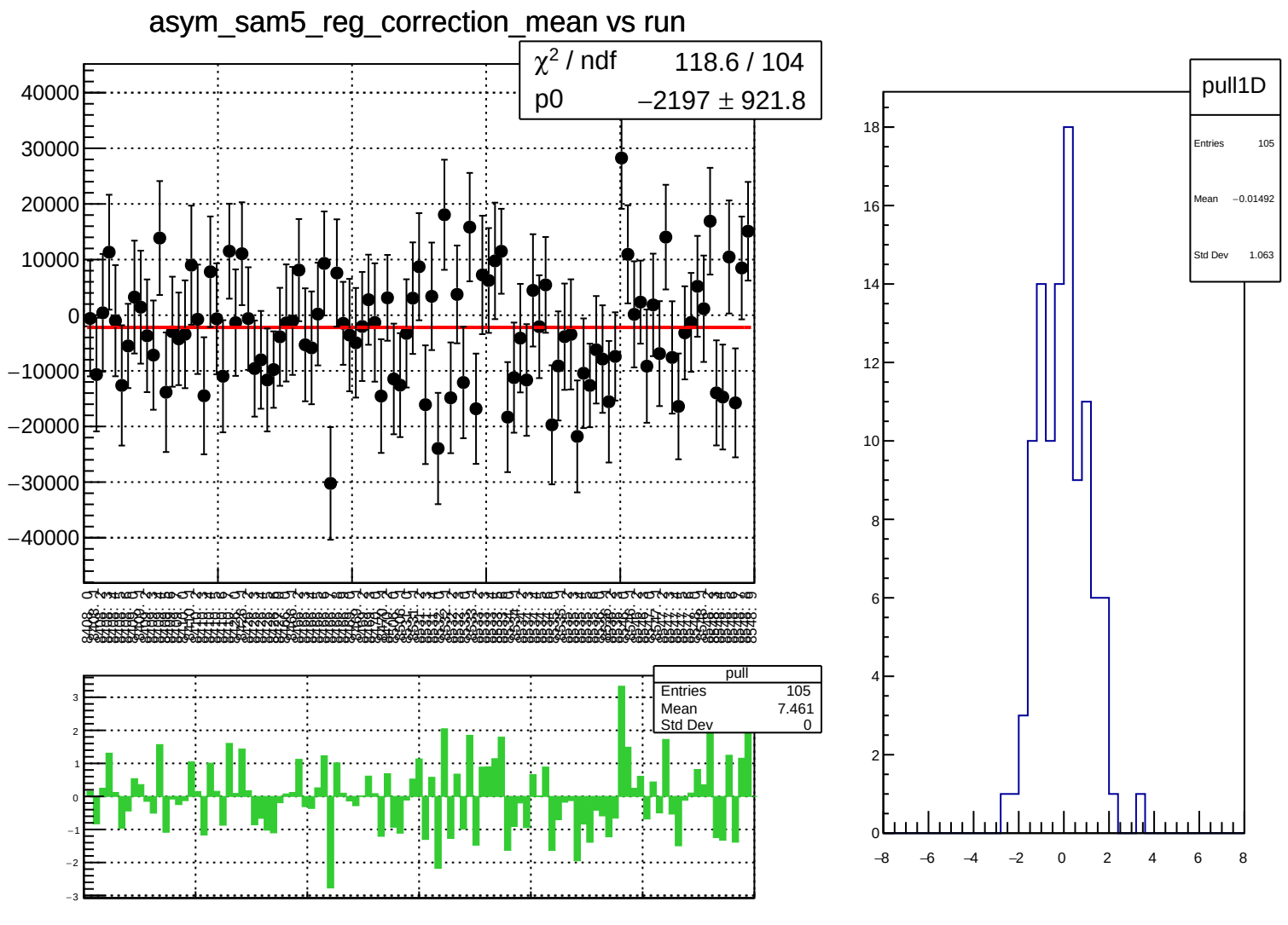

asym_sam4_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 105.2 / 104
p0 4.991e−14 ± 2.017e−13
pull
Entries 105
Mean 38.96
Std Dev 0
pull1D
Entries 105
Mean −0.04175
Std Dev 1

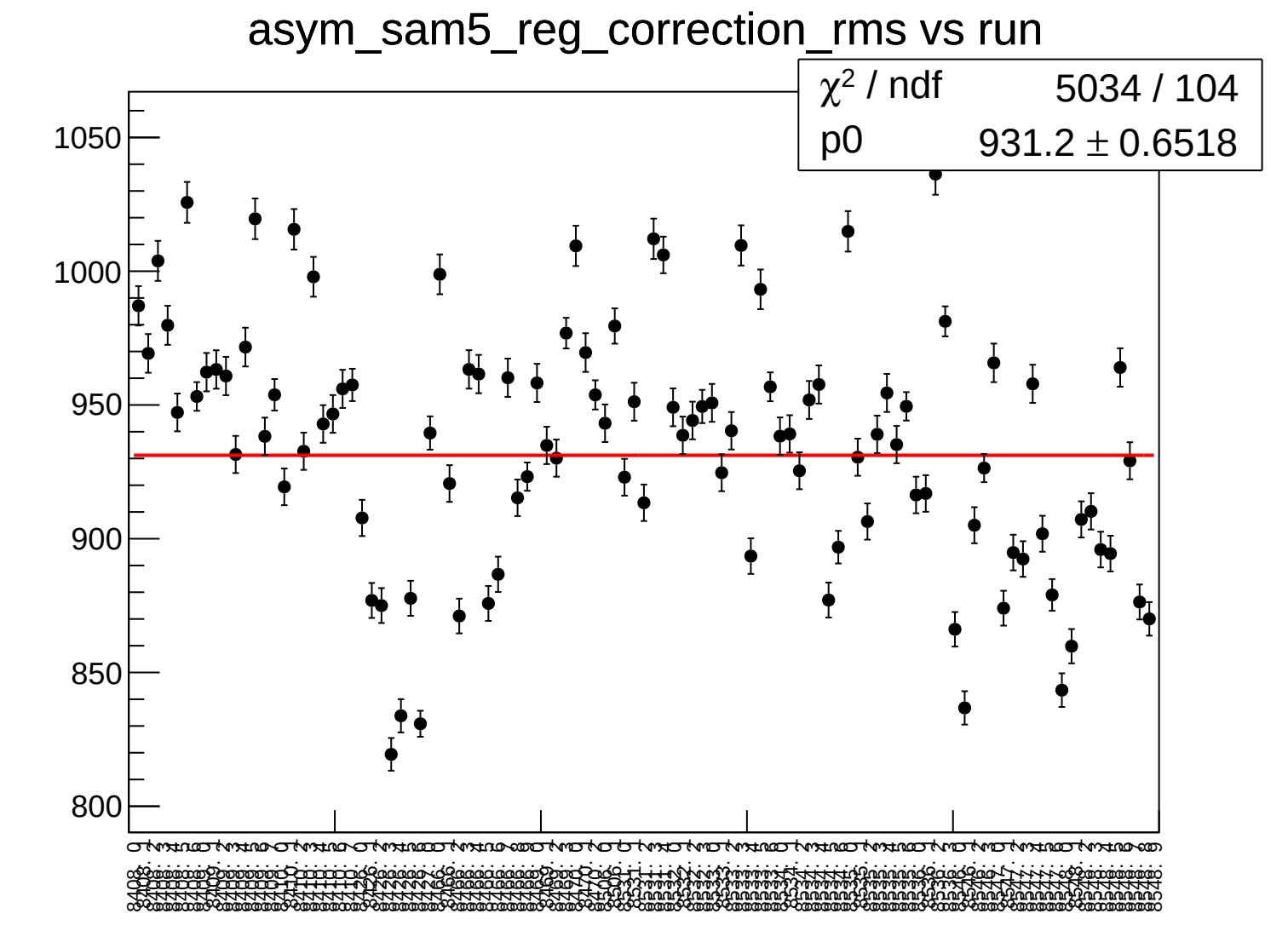

asym_sam4_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 8.367e+05 / 104
p0 1.569e−10 ± 1.427e−13
1.2
1
0.8
0.6
0.4
0.2

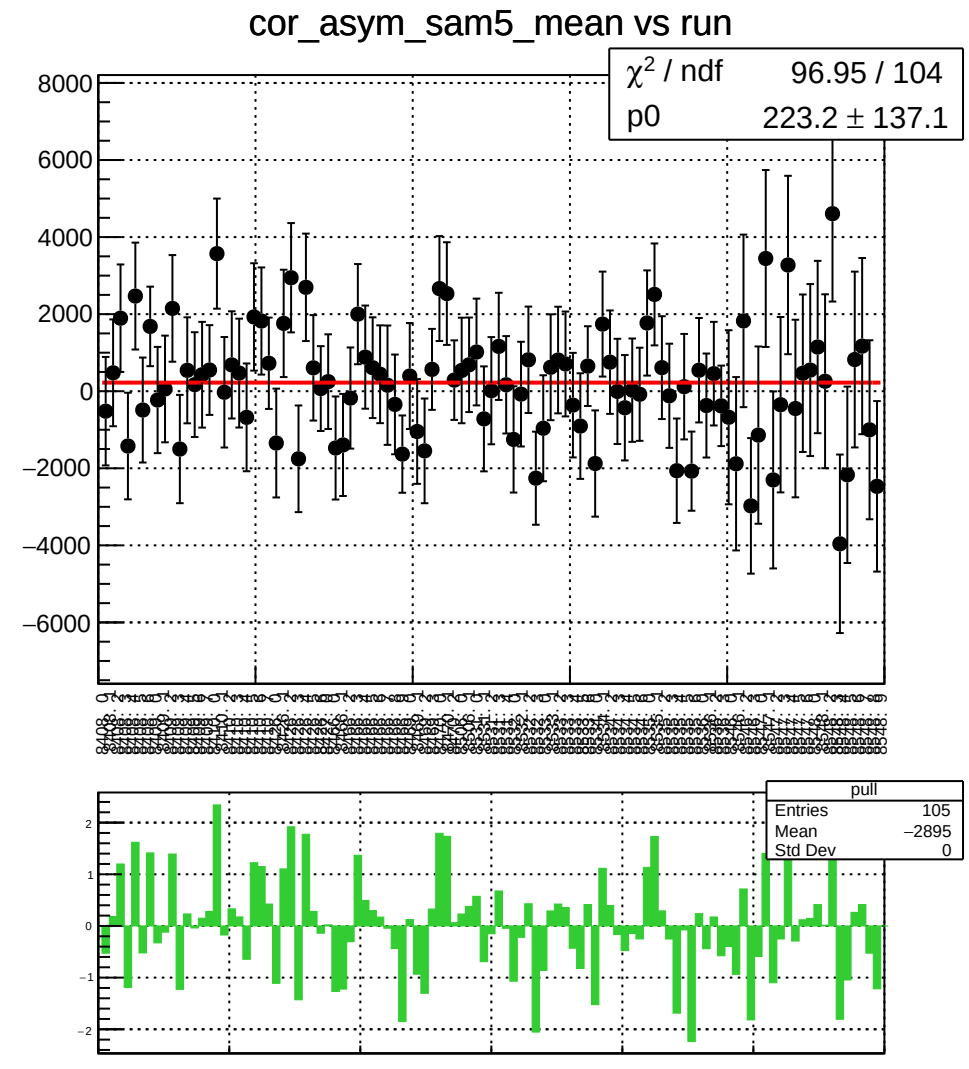

reg_asym_sam5_mean vs run
χ² / ndf 96.95 / 104
p0 223.2 ± 137.1
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 105
Mean −2905
Std Dev 0
2
1
0
−1
−2

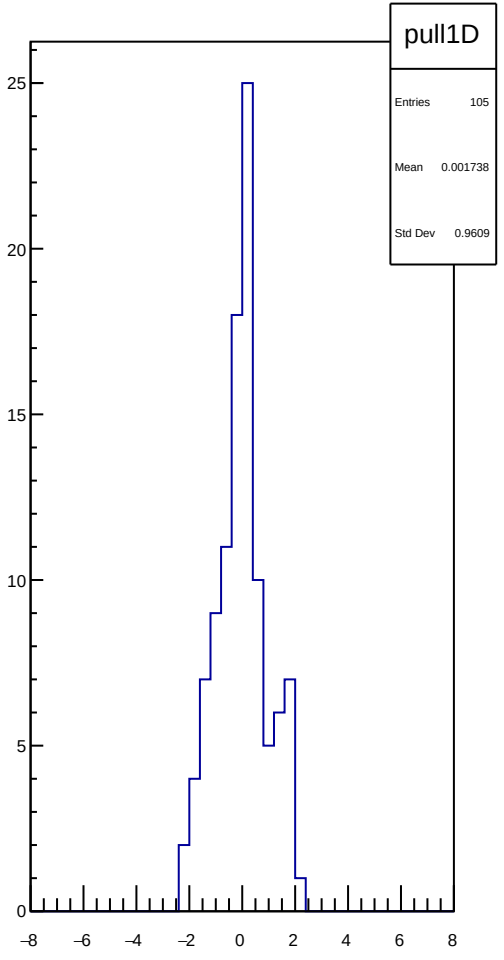

pull1D
Entries 105
Mean 0.001732
Std Dev 0.9609
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

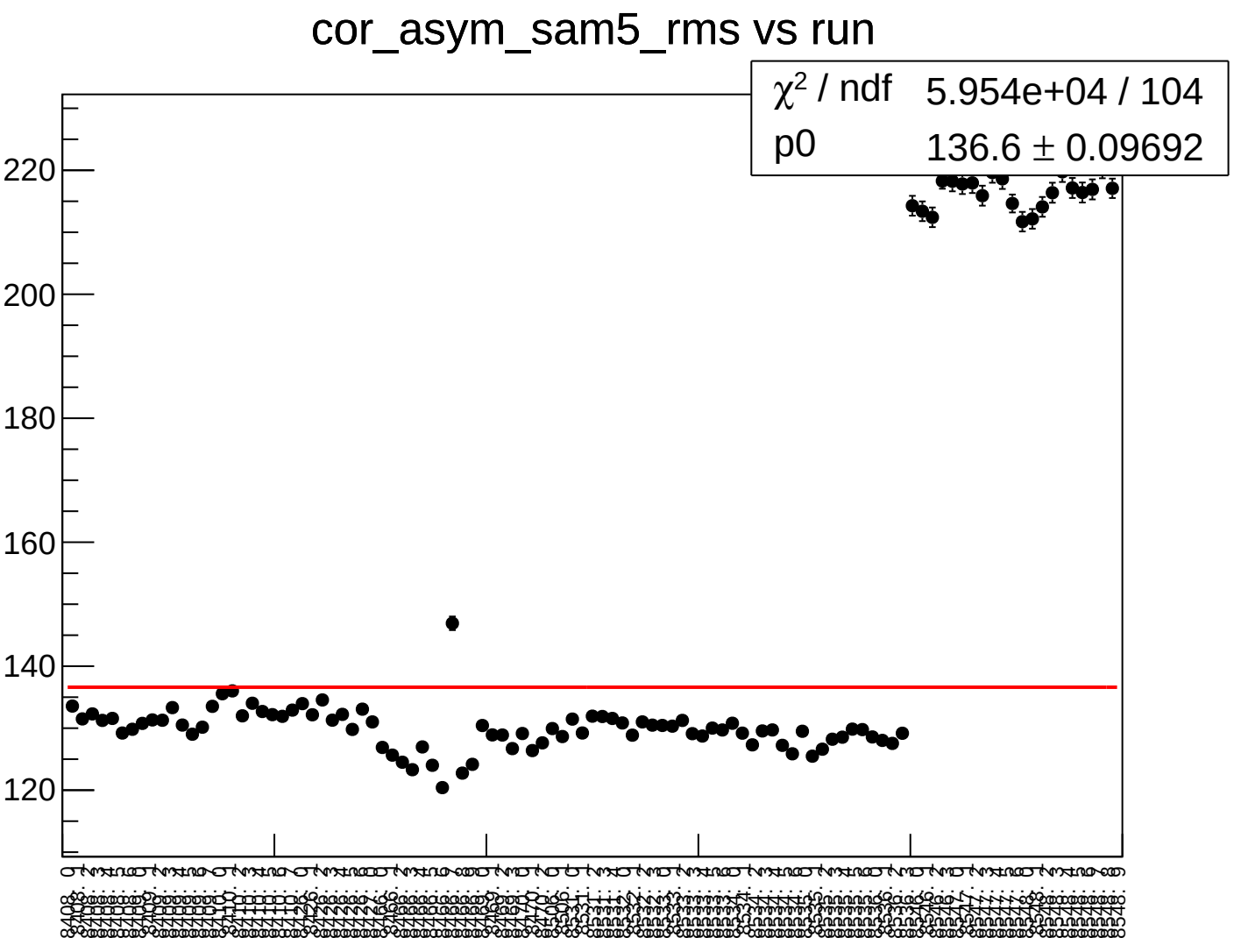

reg_asym_sam5_rms vs run
χ^2 / ndf 5.954e+04 / 104
p0 136.6 ± 0.09692
220
200
180
160
140
120

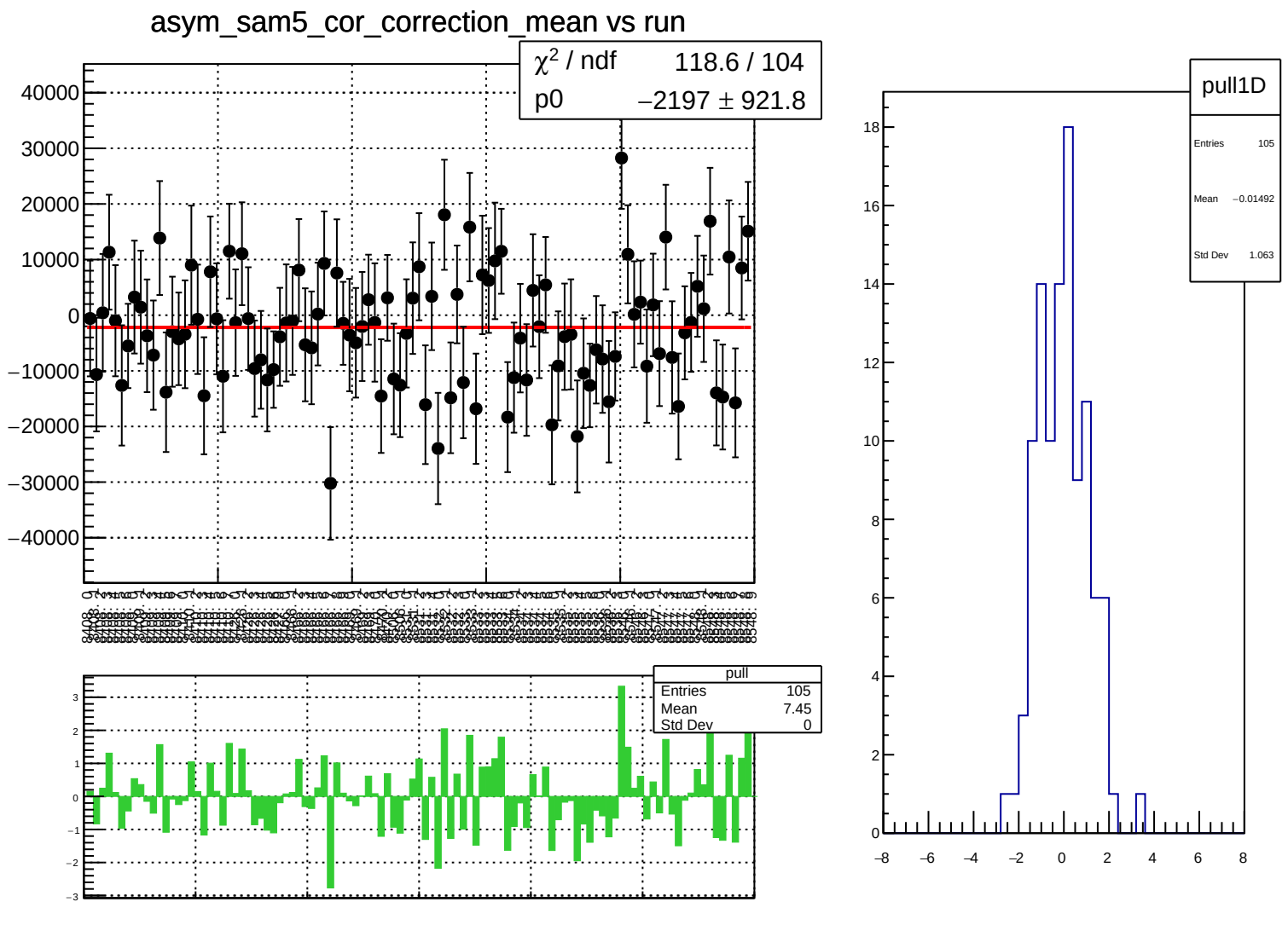

asym_sam5_reg_correction_mean vs run
χ² / ndf 118.6 / 104
p0 −2197 ± 921.8
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 105
Mean 7.461
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 105
Mean −0.01492
Std Dev 1.063
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

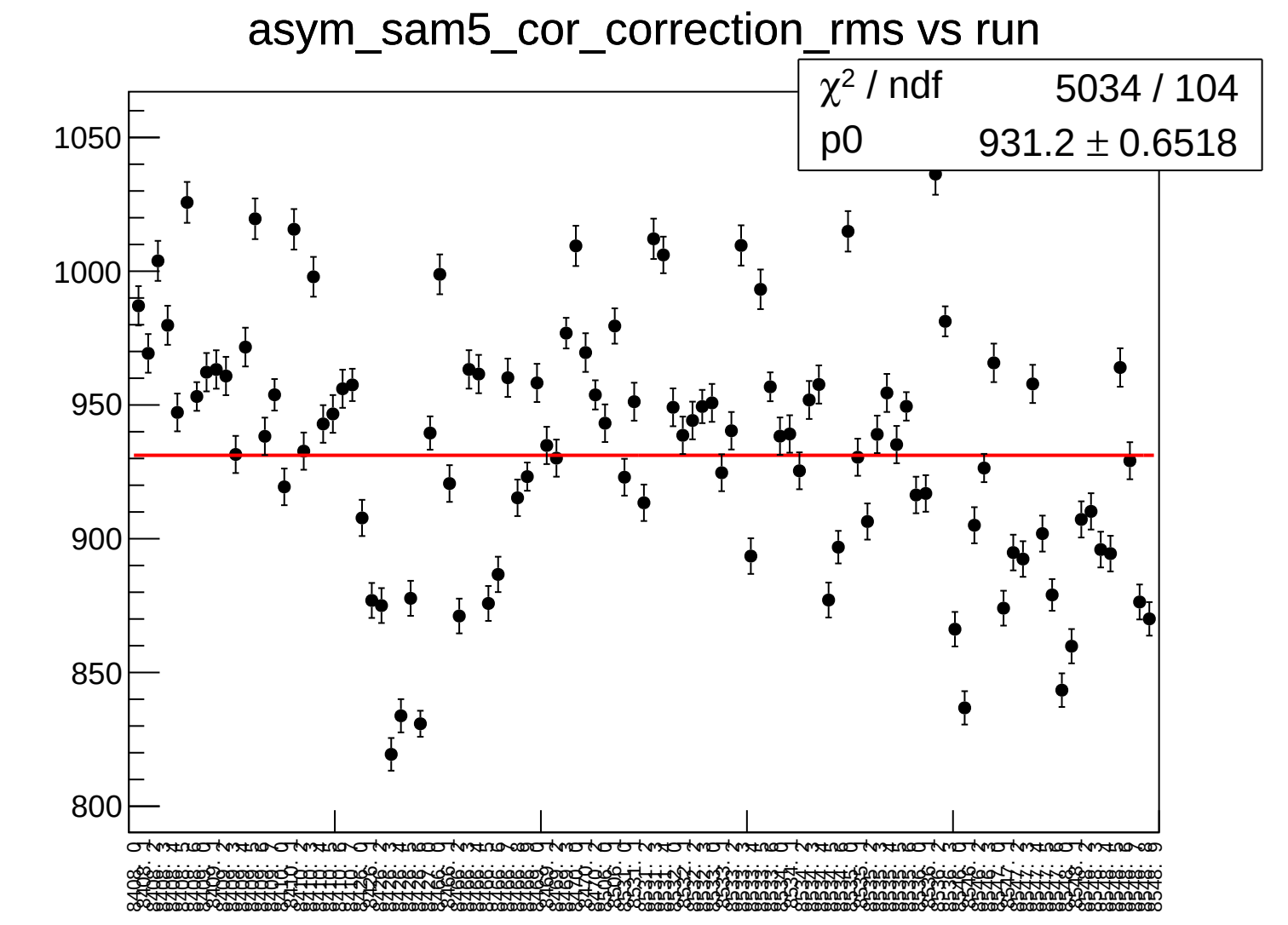

asym_sam5_reg_correction_rms vs run
χ² / ndf 5034 / 104
p0 931.2 ± 0.6518
1050
1000
950
900
850
800

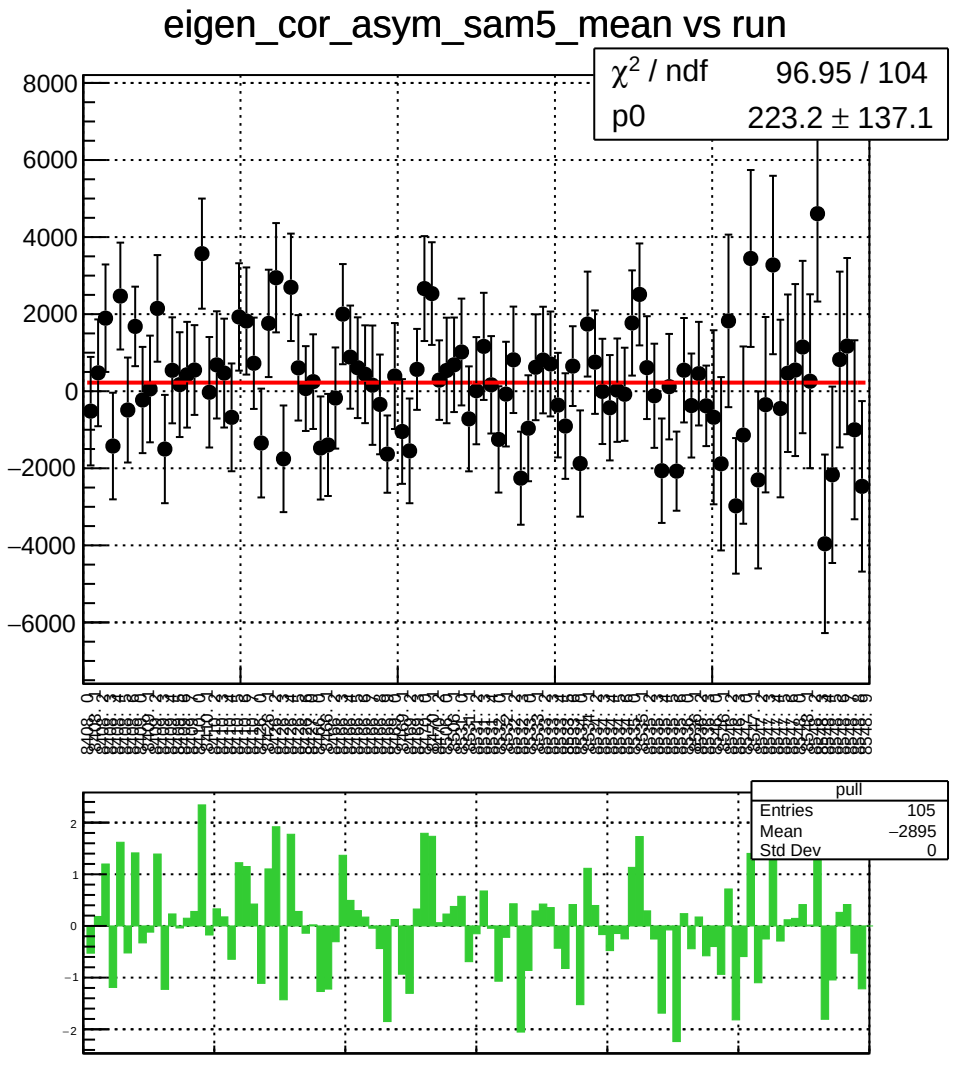

cor_asym_sam5_mean vs run
χ² / ndf 96.95 / 104
p0 223.2 ± 137.1
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 105
Mean −2895
Std Dev 0
2
1
0
−1
−2

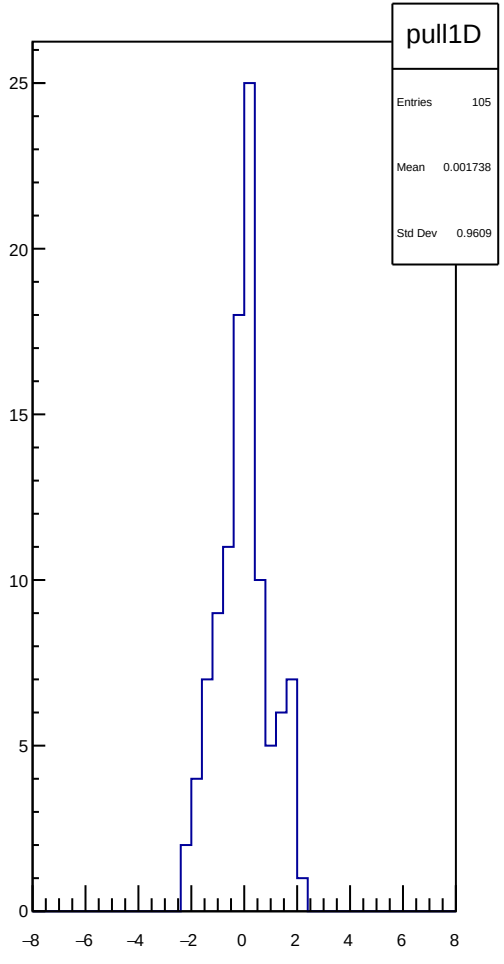

pull1D
Entries 105
Mean 0.001738
Std Dev 0.9609
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

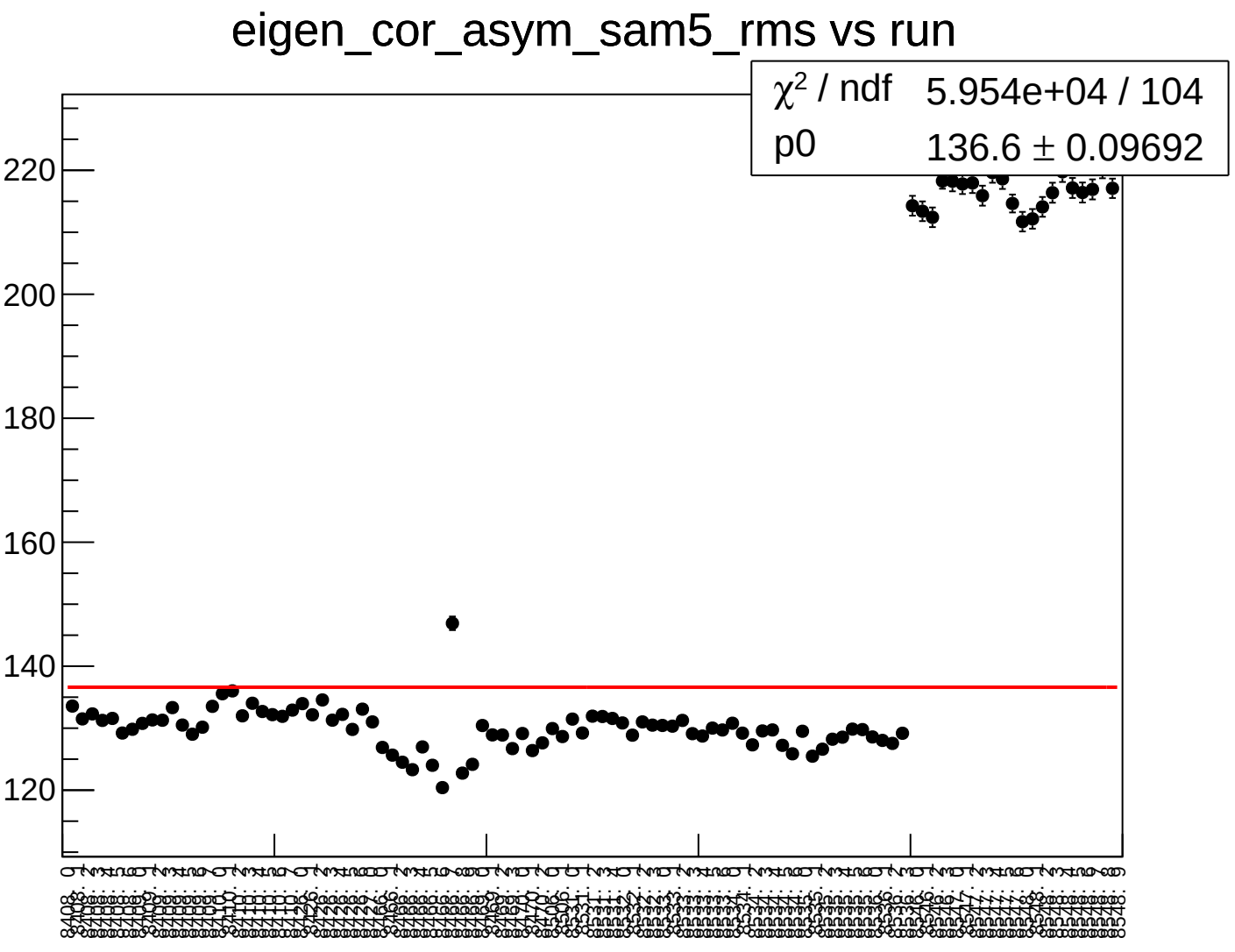

cor_asym_sam5_rms vs run
χ^2 / ndf 5.954e+04 / 104
p0 136.6 ± 0.09692
220
200
180
160
140
120

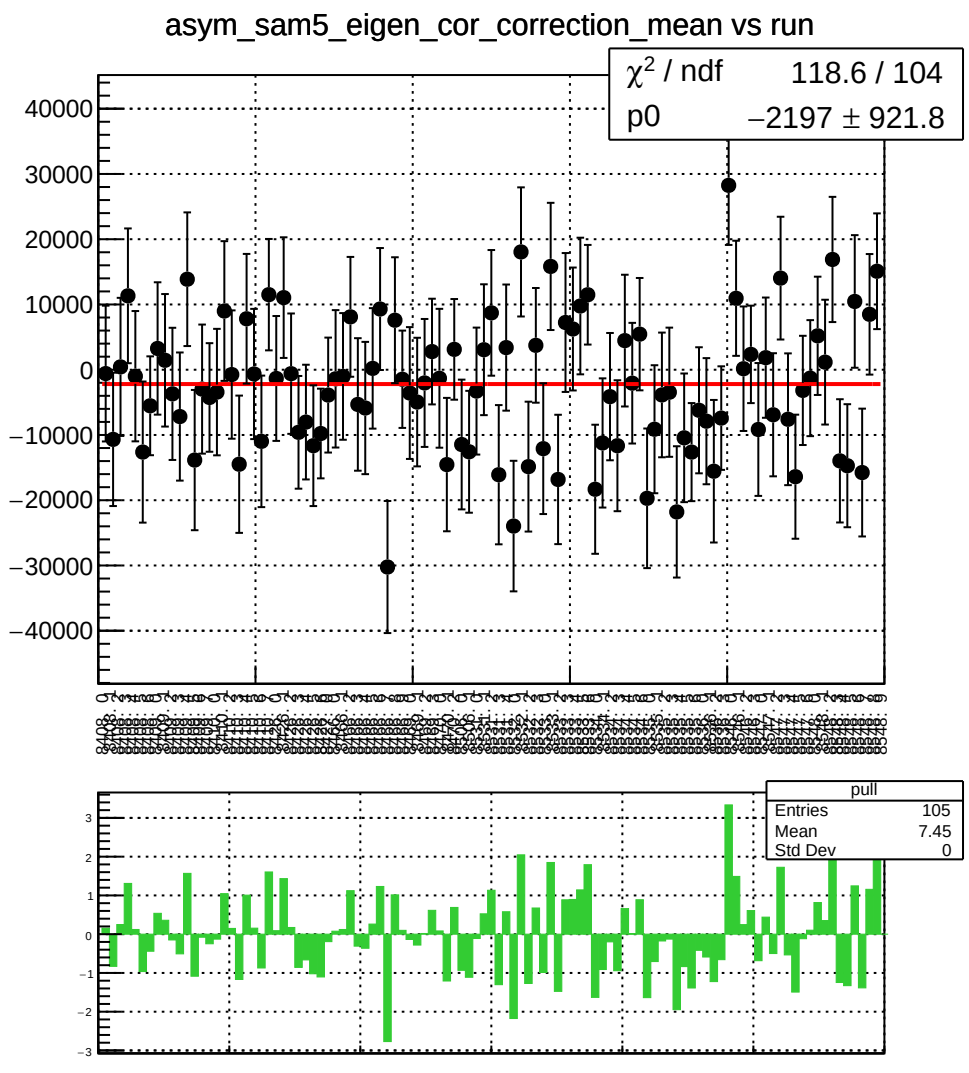

asym_sam5_cor_correction_mean vs run
χ² / ndf 118.6 / 104
p0 −2197 ± 921.8
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 105
Mean 7.45
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 105
Mean −0.01492
Std Dev 1.063
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

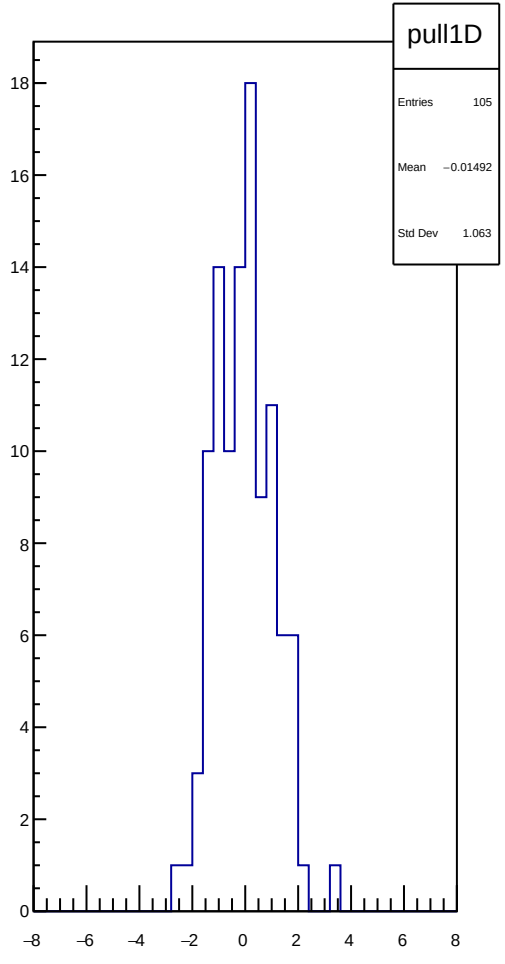

asym_sam5_cor_correction_rms vs run
χ² / ndf 5034 / 104
p0 931.2 ± 0.6518
1050
1000
950
900
850
800

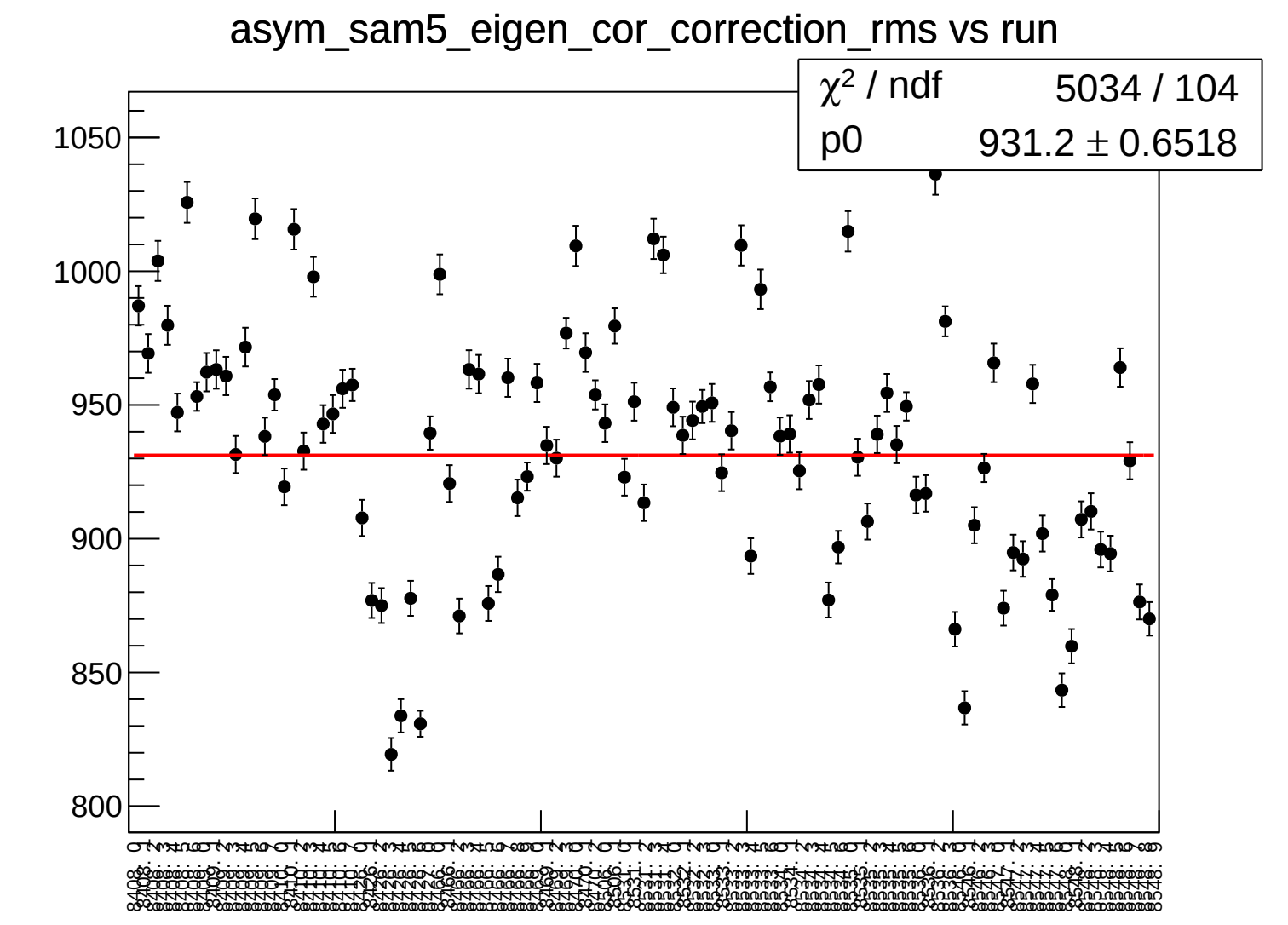

eigen_cor_asym_sam5_mean vs run
χ² / ndf 96.95 / 104
p0 223.2 ± 137.1
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 105
Mean −2895
Std Dev 0
2
1
0
−1
−2

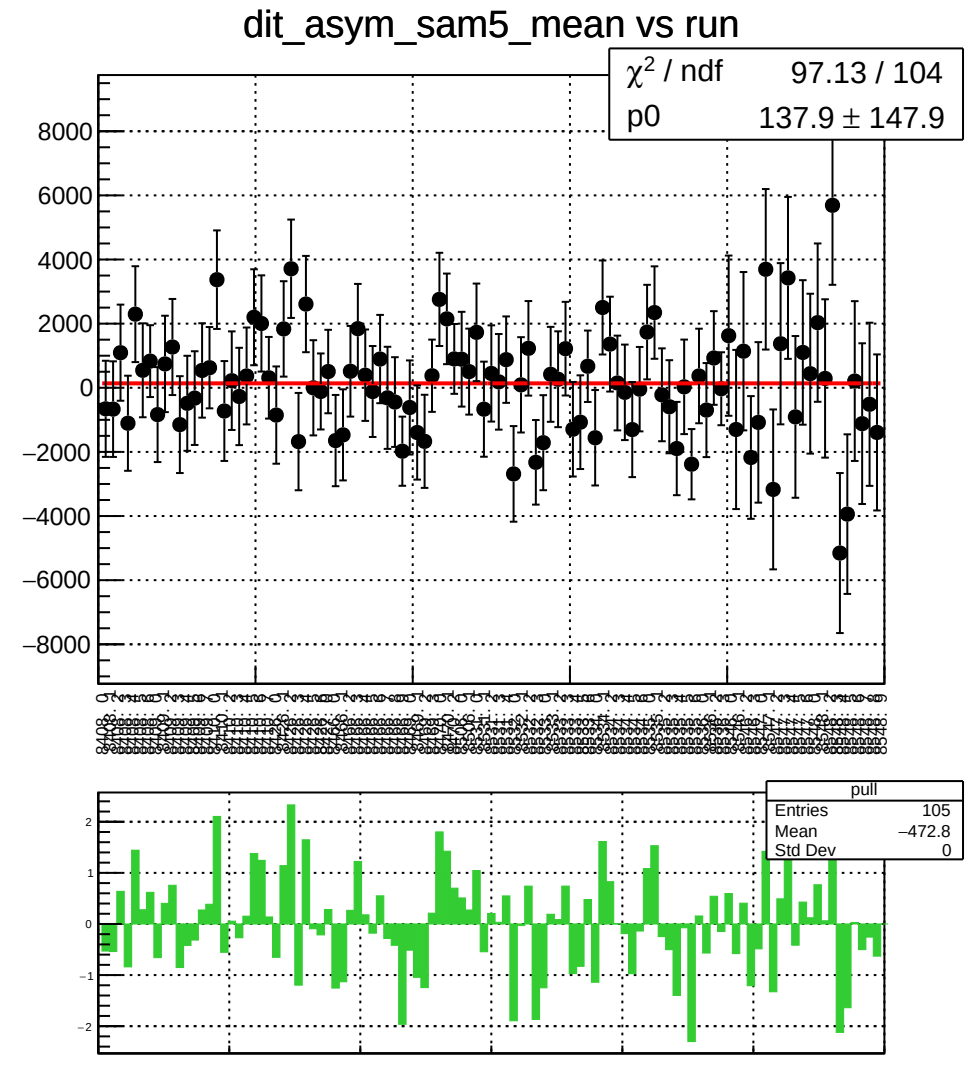

pull1D
Entries 105
Mean 0.001738
Std Dev 0.9609
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

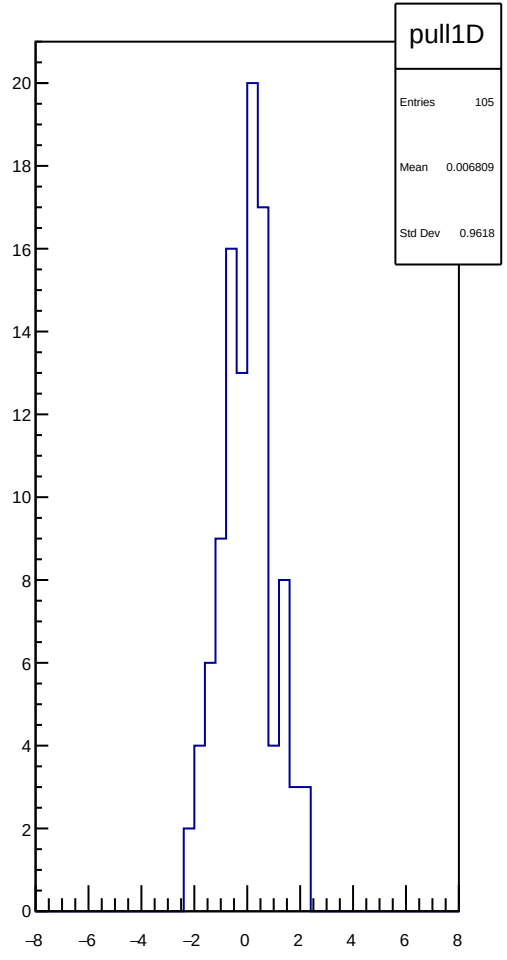

eigen_cor_asym_sam5_rms vs run
χ^2 / ndf 5.954e+04 / 104
p0 136.6 ± 0.09692
220
200
180
160
140
120

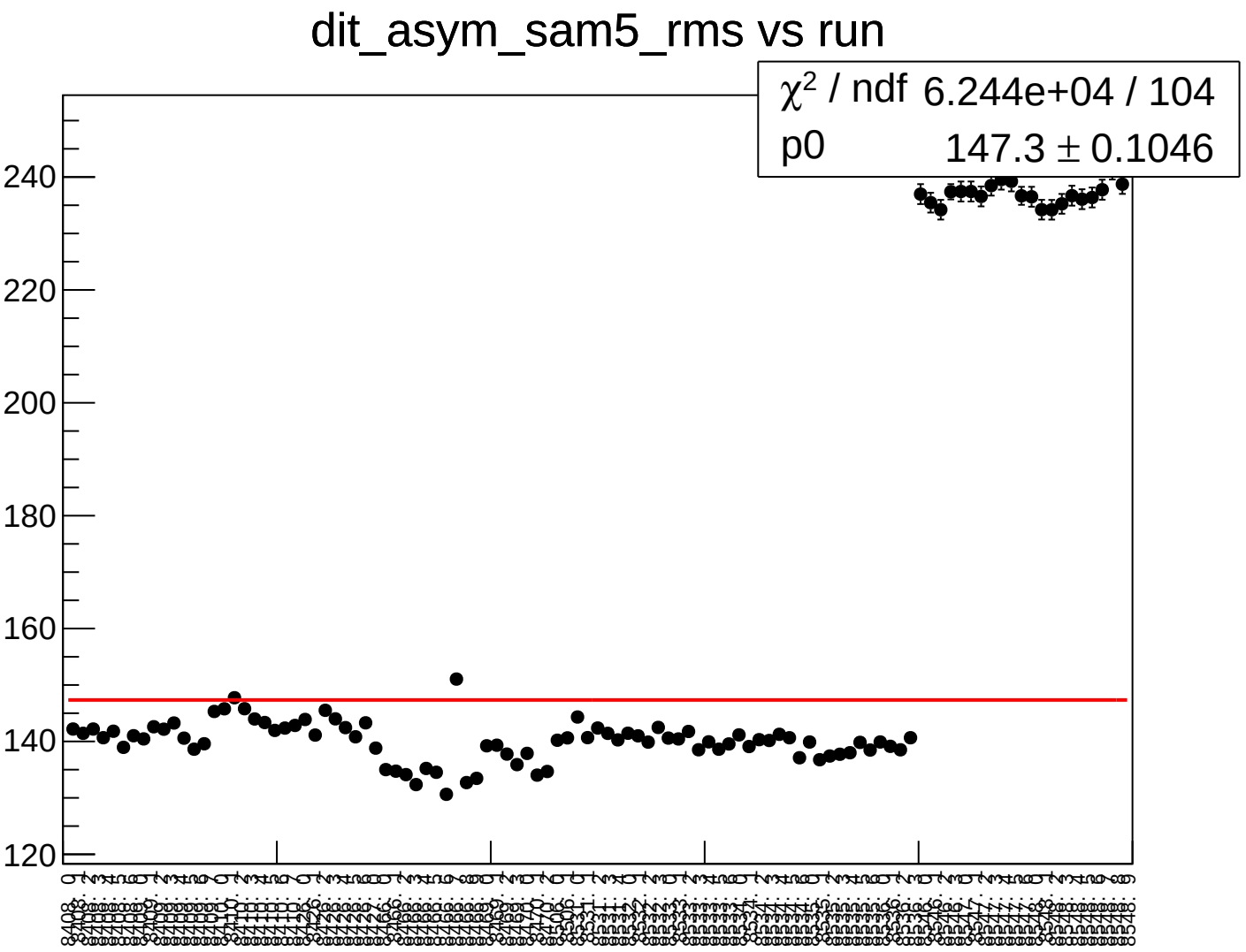

asym_sam5_eigen_cor_correction_mean vs run
χ² / ndf 118.6 / 104
p0 −2197 ± 921.8
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 105
Mean 7.45
Std Dev 0
3
2
1
0
−1
−2
−3

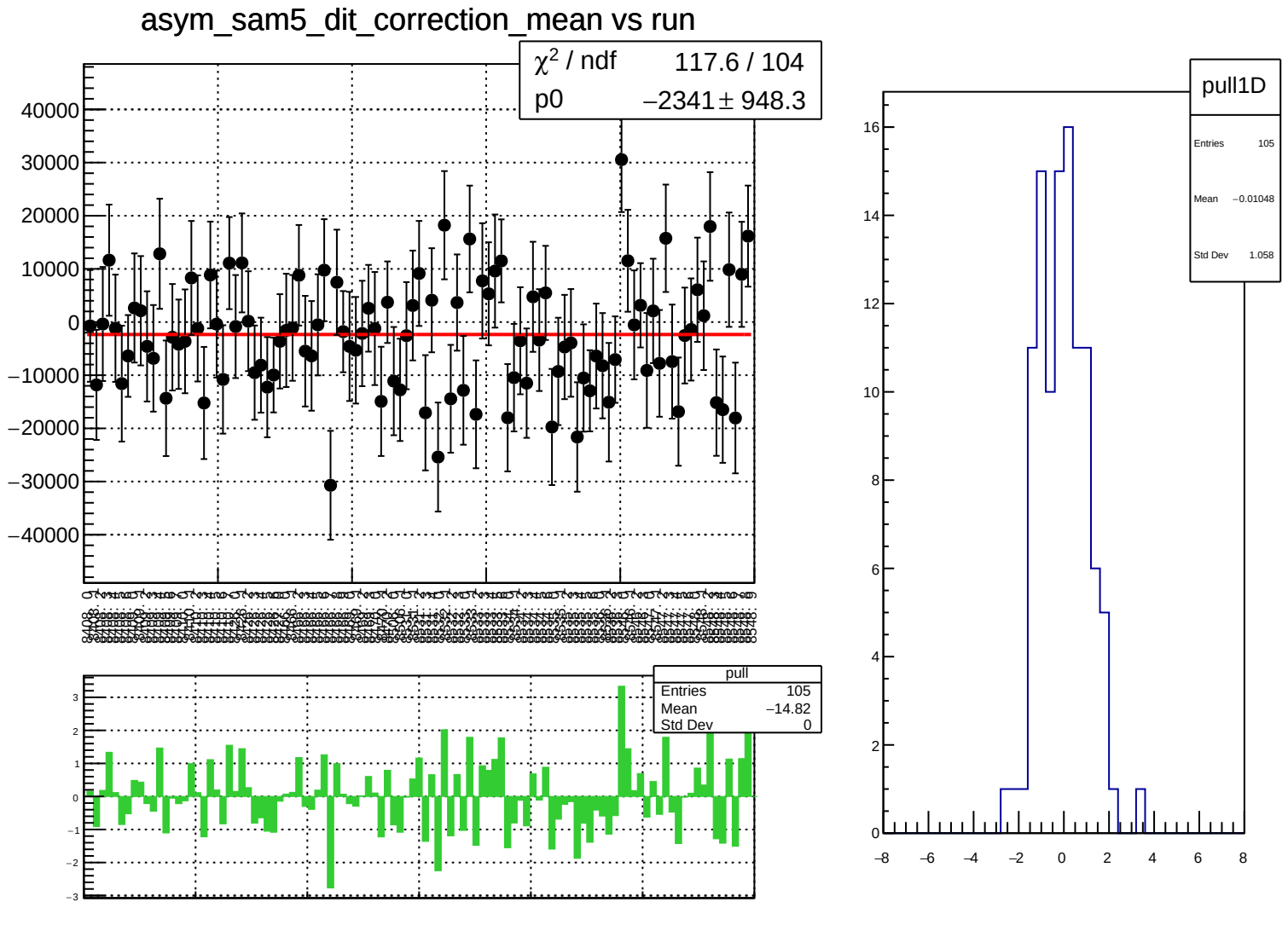

pull1D
Entries 105
Mean −0.01492
Std Dev 1.063
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

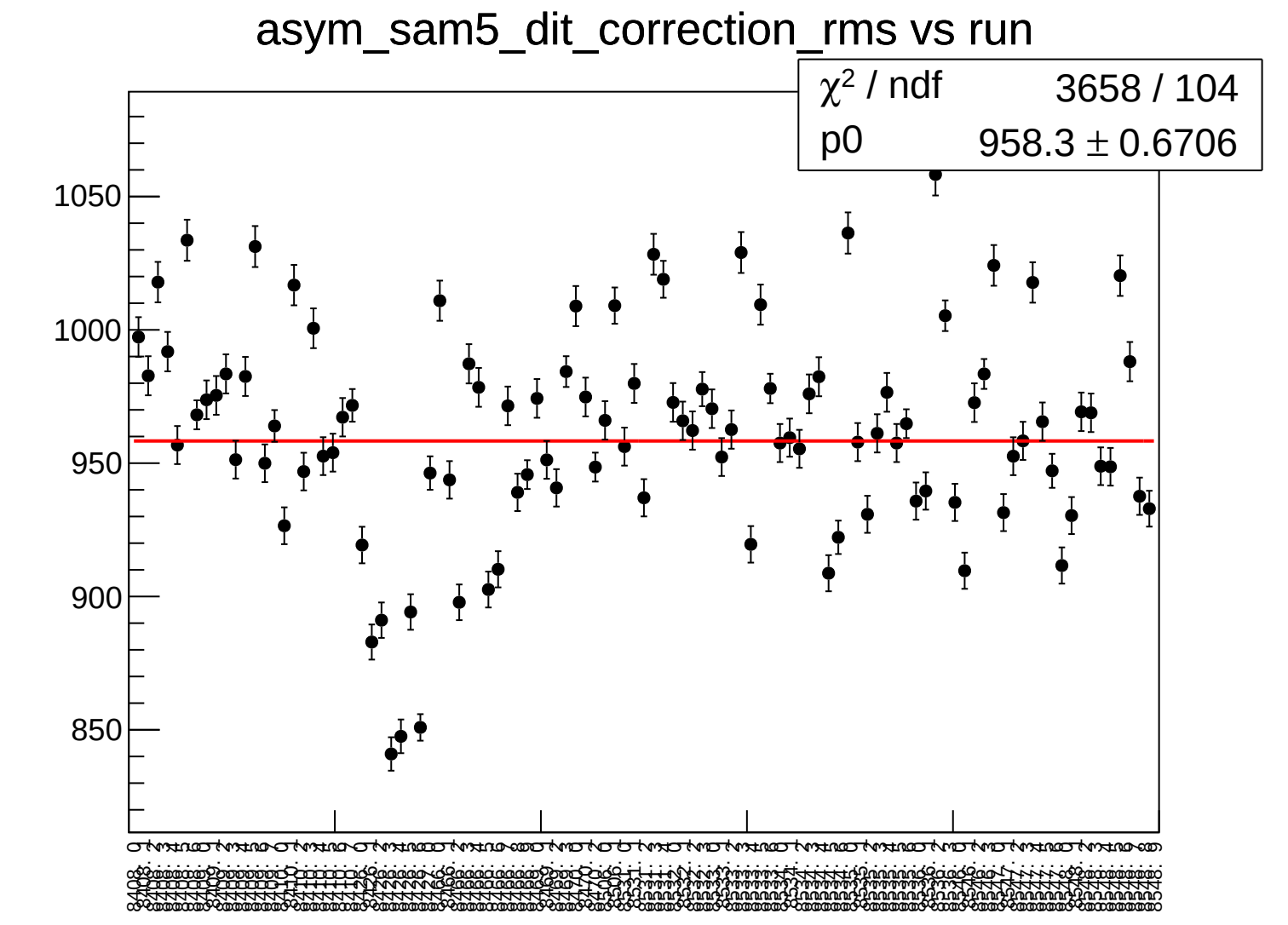

asym_sam5_eigen_cor_correction_rms vs run
χ² / ndf 5034 / 104
p0 931.2 ± 0.6518
1050
1000
950
900
850
800

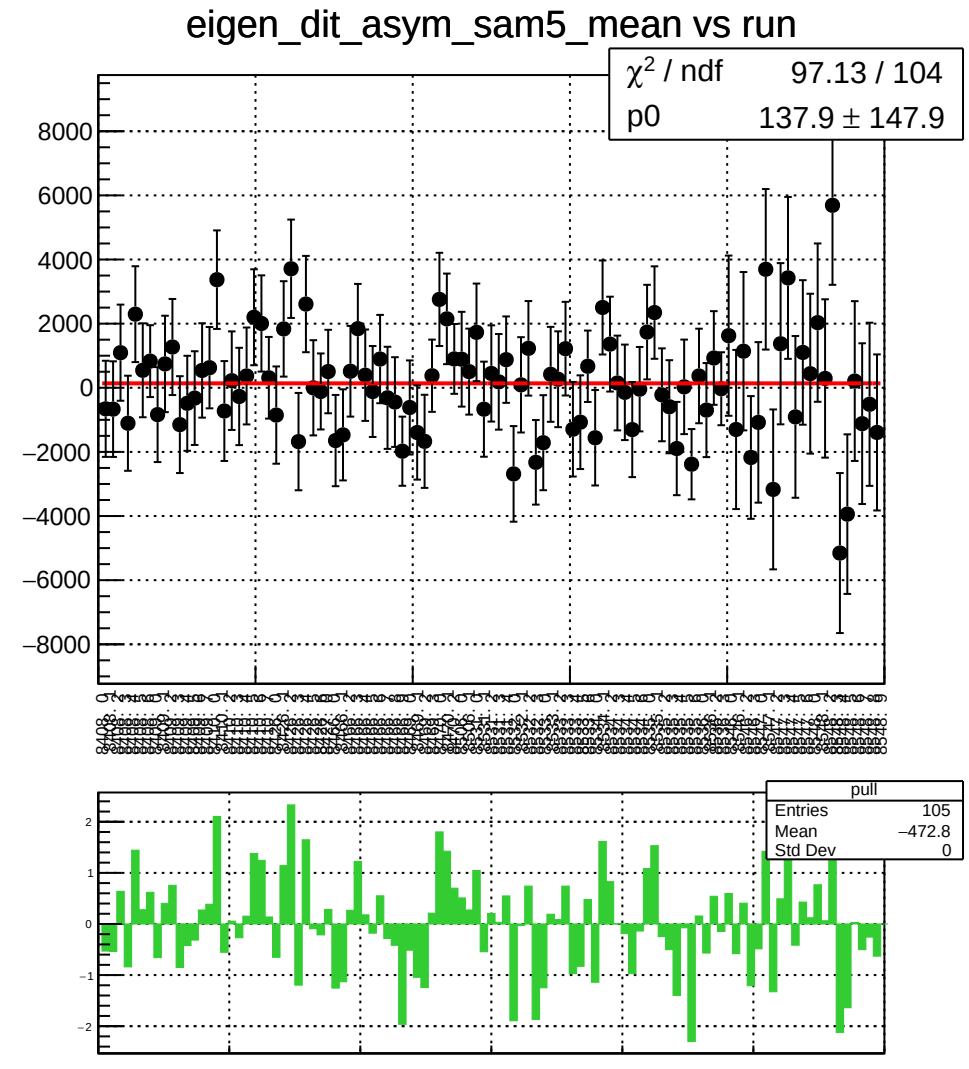

dit_asym_sam5_mean vs run
χ² / ndf 97.13 / 104
p0 137.9 ± 147.9
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 105
Mean −472.8
Std Dev 0
2
1
0
−1
−2

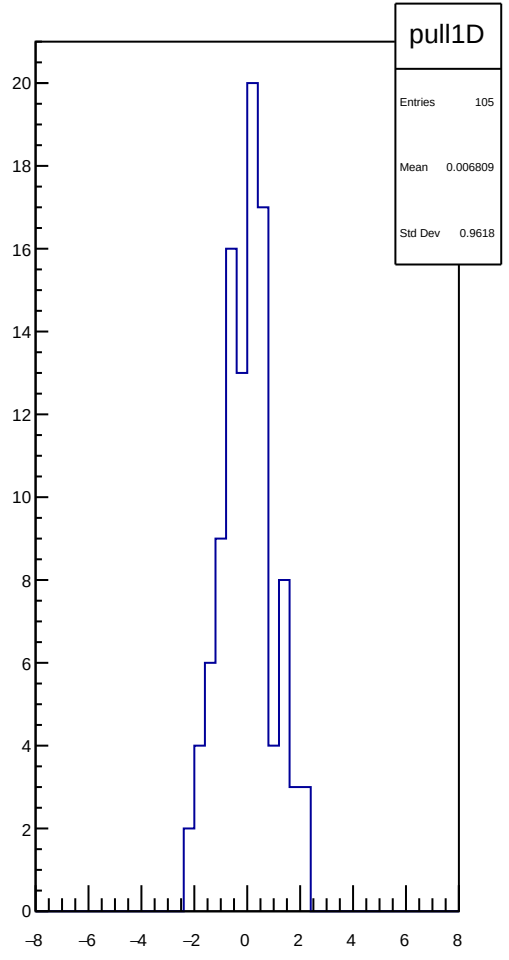

pull1D
Entries 105
Mean 0.006809
Std Dev 0.9618
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

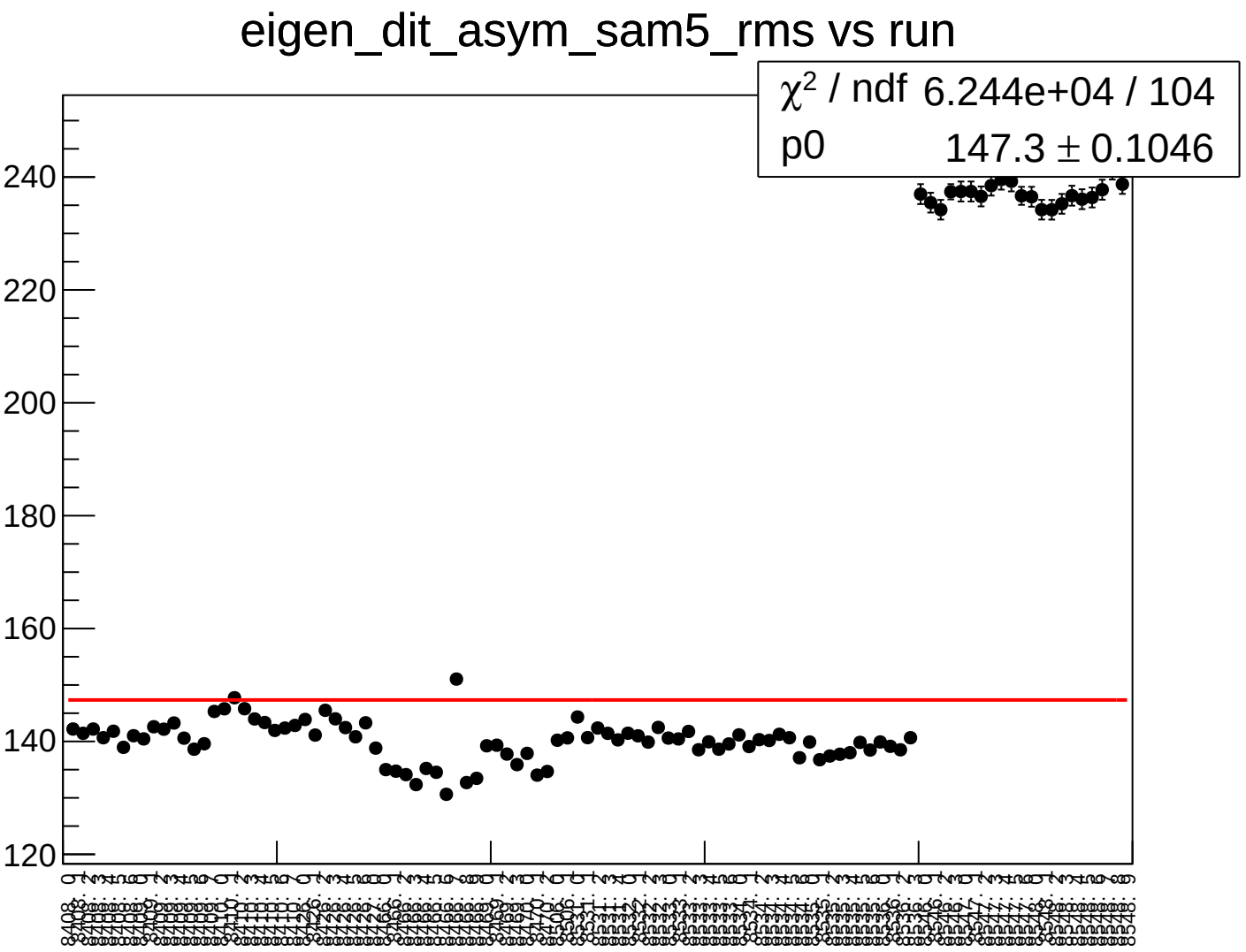

dit_asym_sam5_rms vs run
χ^2 / ndf 6.244e+04 / 104
p0 147.3 ± 0.1046
240
220
200
180
160
140
120

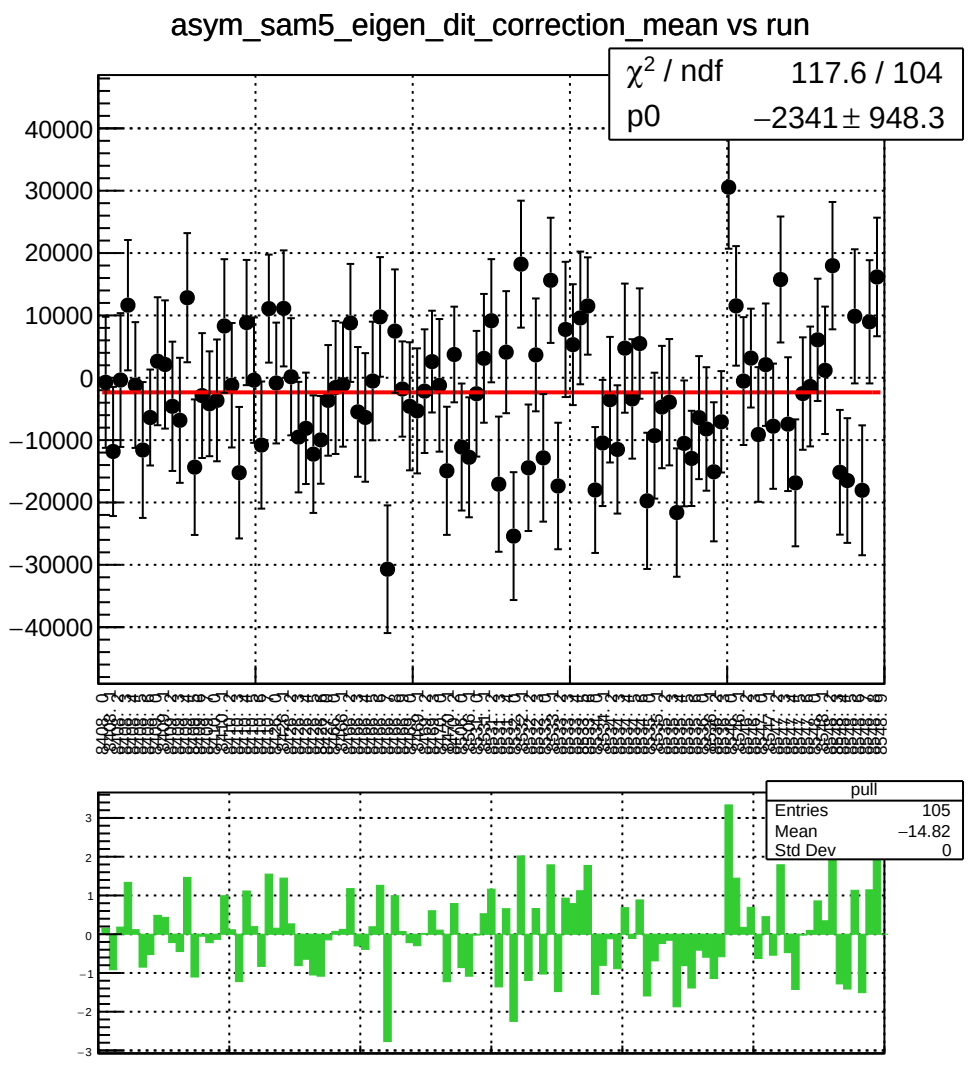

asym_sam5_dit_correction_mean vs run
χ² / ndf 117.6 / 104
p0 −2341 ± 948.3
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 105
Mean −14.82
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 105
Mean −0.01048
Std Dev 1.058
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

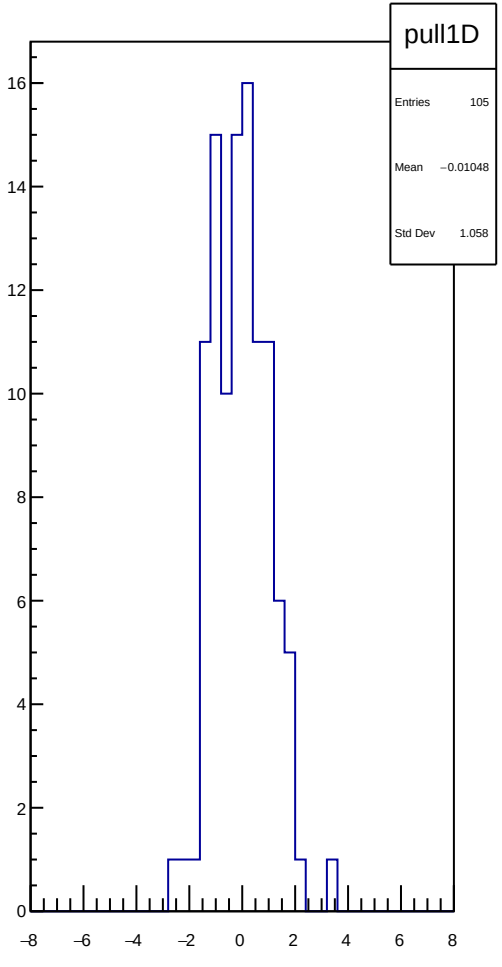

asym_sam5_dit_correction_rms vs run
χ² / ndf 3658 / 104
p0 958.3 ± 0.6706
1050
1000
950
900
850

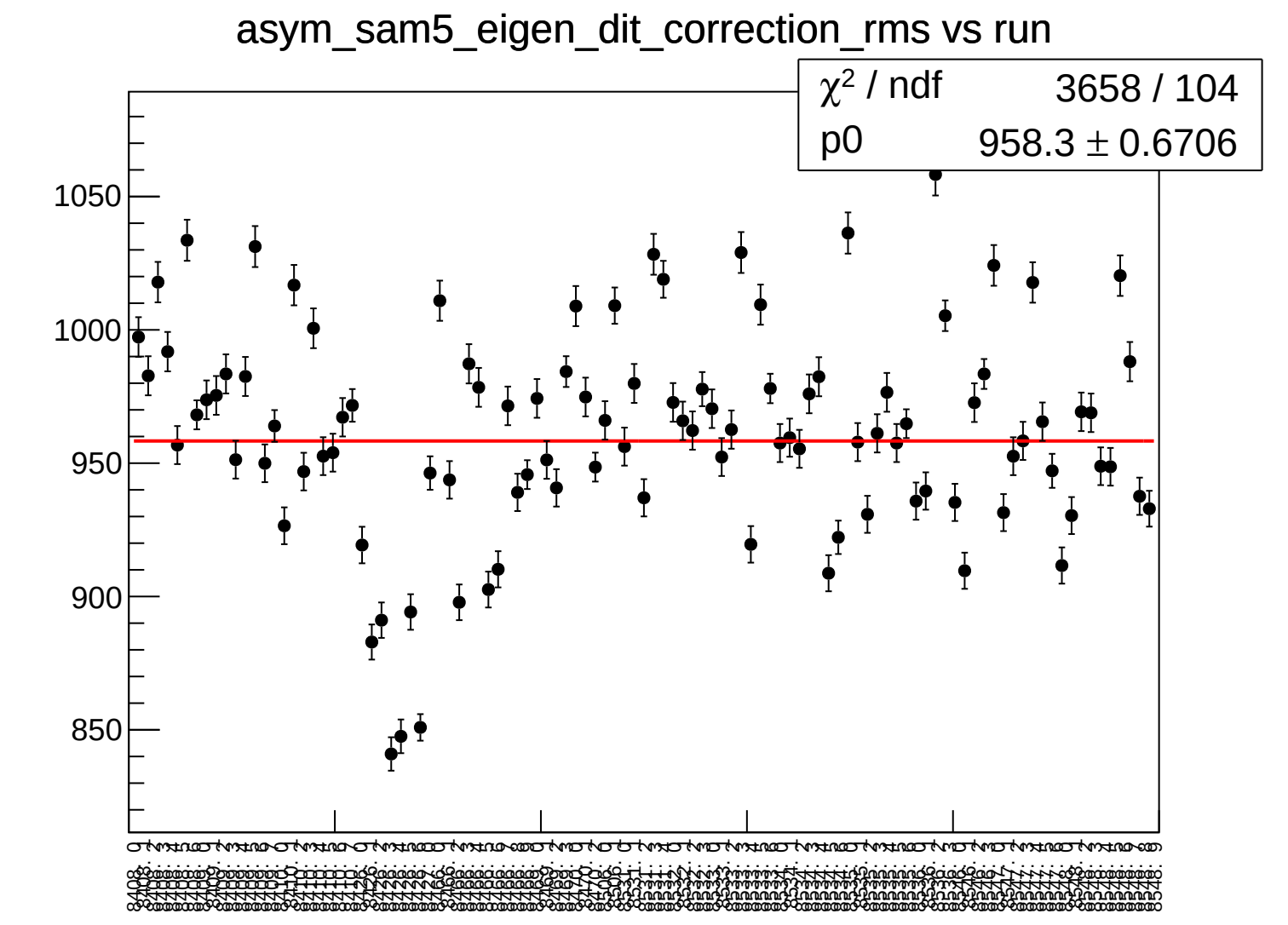

eigen_dit_asym_sam5_mean vs run
χ² / ndf 97.13 / 104
p0 137.9 ± 147.9
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 105
Mean −472.8
Std Dev 0
2
1
0
−1
−2

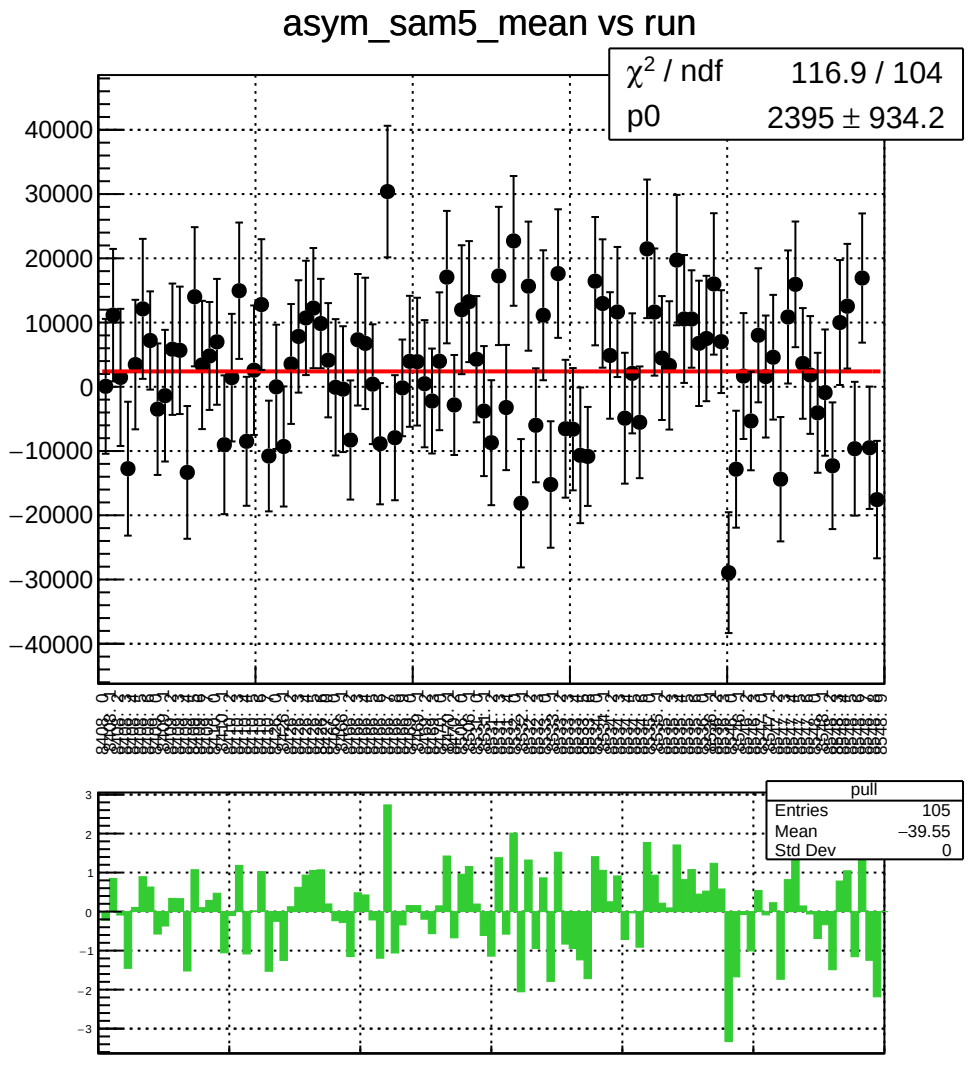

pull1D
Entries 105
Mean 0.006809
Std Dev 0.9618
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

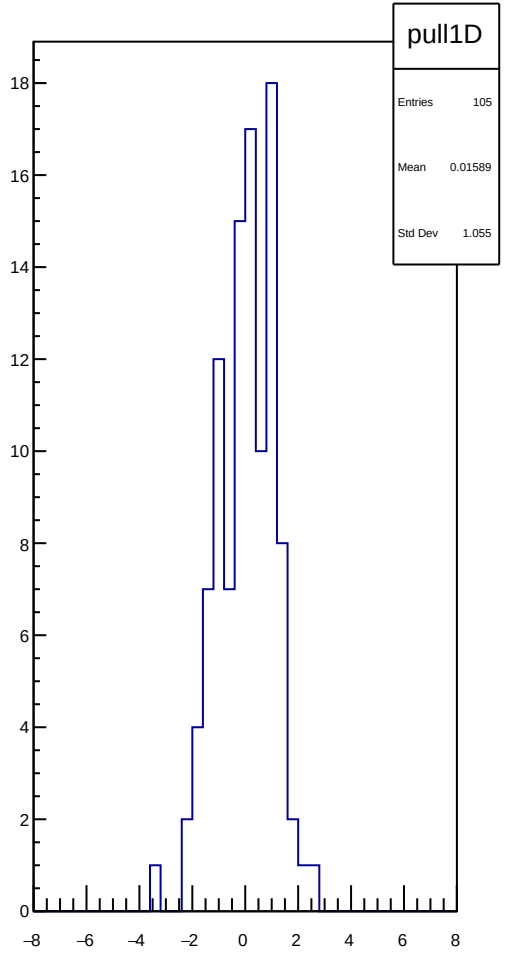

eigen_dit_asym_sam5_rms vs run
χ² / ndf 6.244e+04 / 104
p0 147.3 ± 0.1046
240
220
200
180
160
140
120

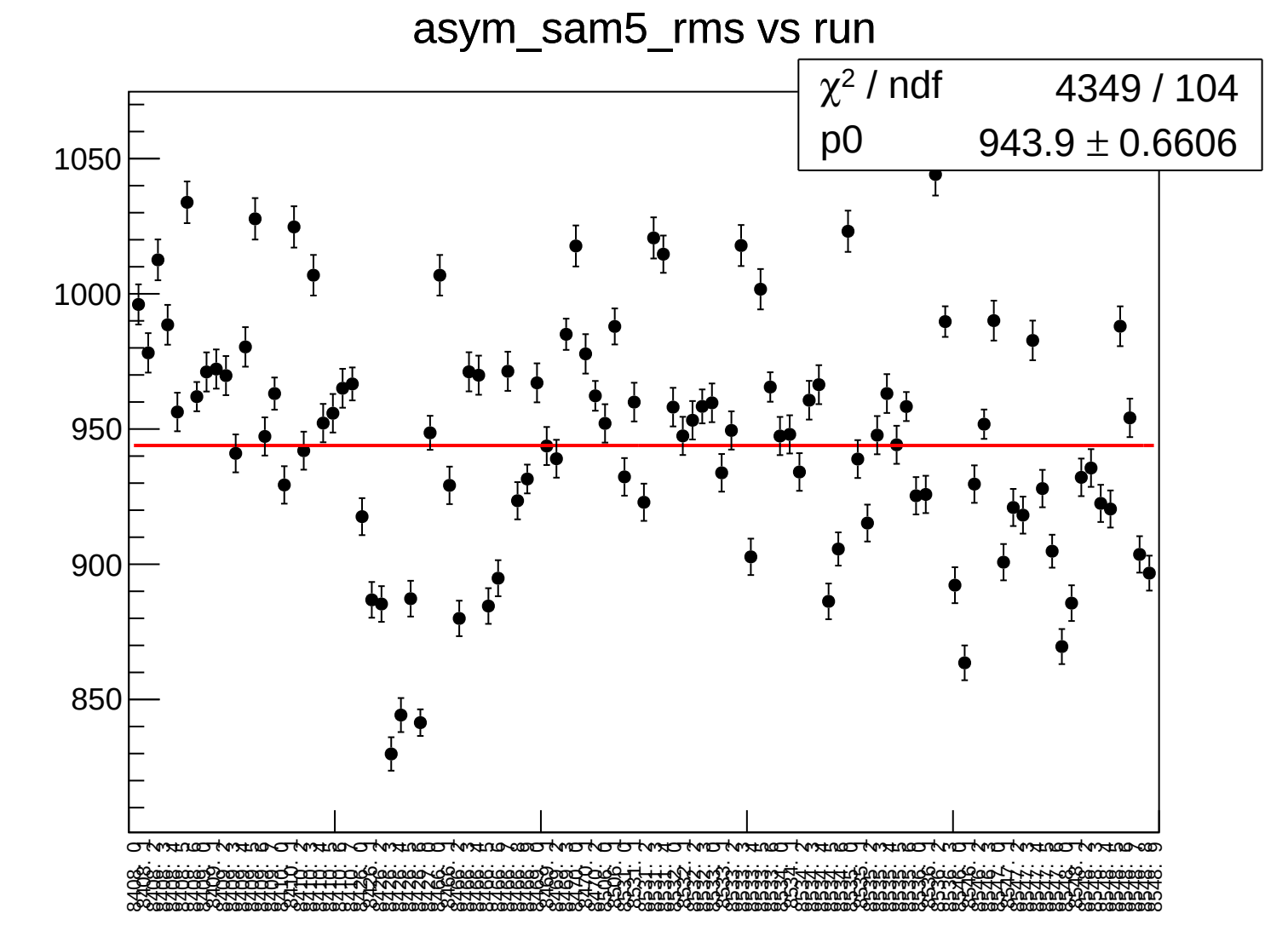

asym_sam5_eigen_dit_correction_mean vs run
χ^2 / ndf 117.6 / 104
p0 −2341 ± 948.3
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 105
Mean −14.82
Std Dev 0
3
2
1
0
−1
−2
−3

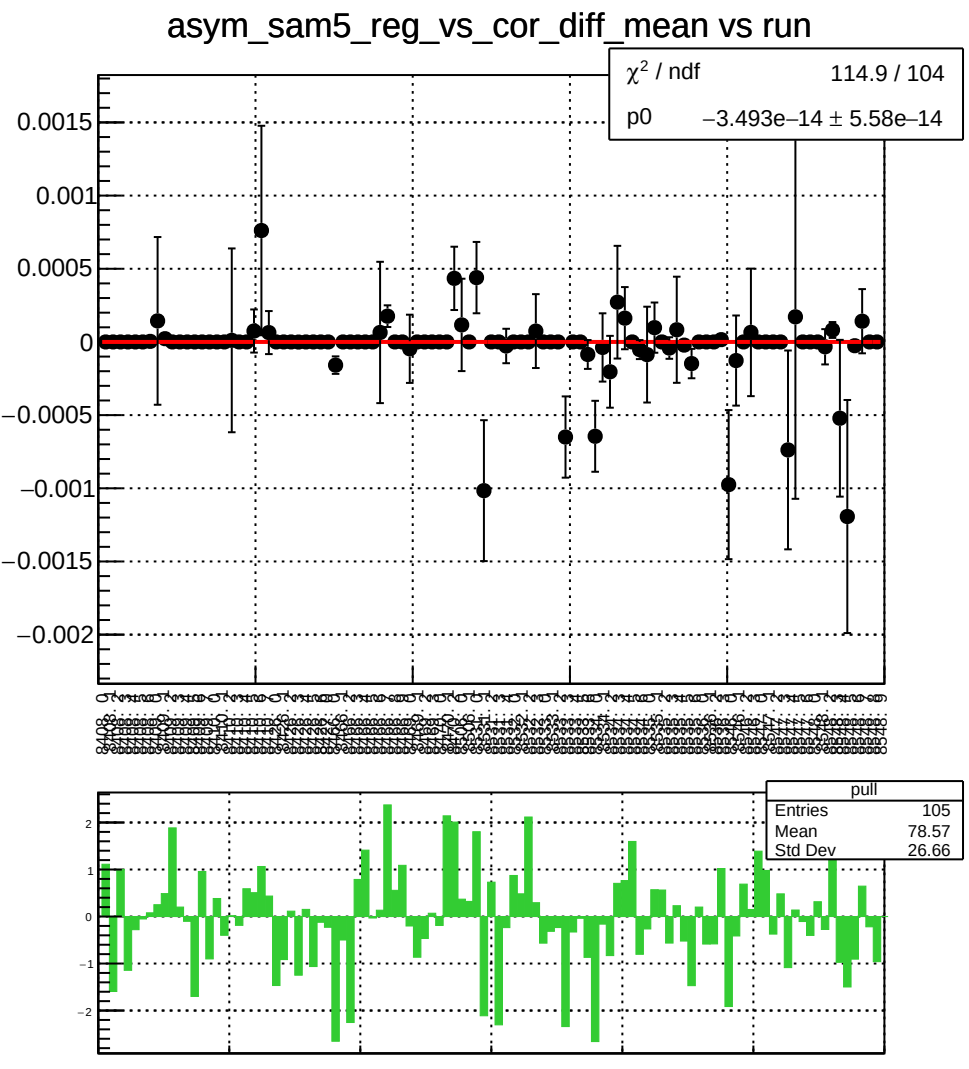

pull1D
Entries 105
Mean −0.01048
Std Dev 1.058
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

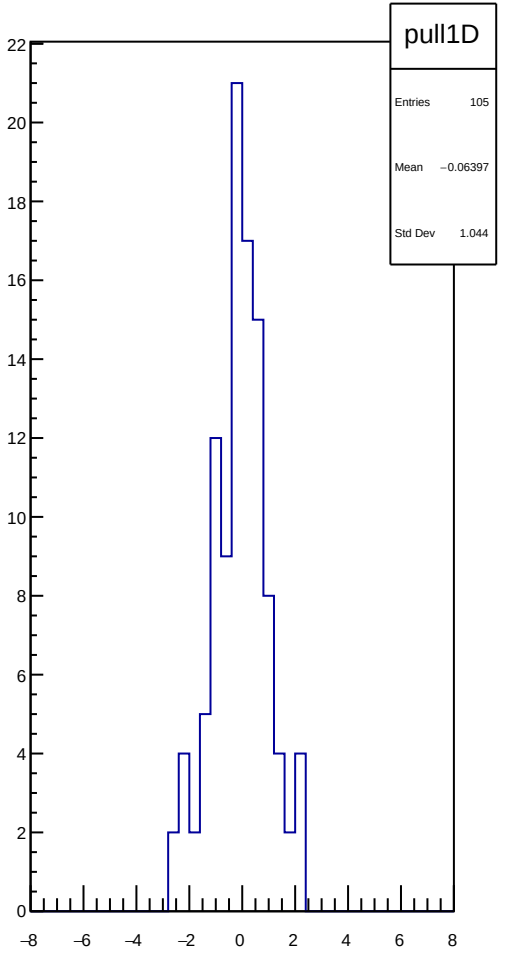

asym_sam5_eigen_dit_correction_rms vs run
χ² / ndf 3658 / 104
p0 958.3 ± 0.6706
1050
1000
950
900
850

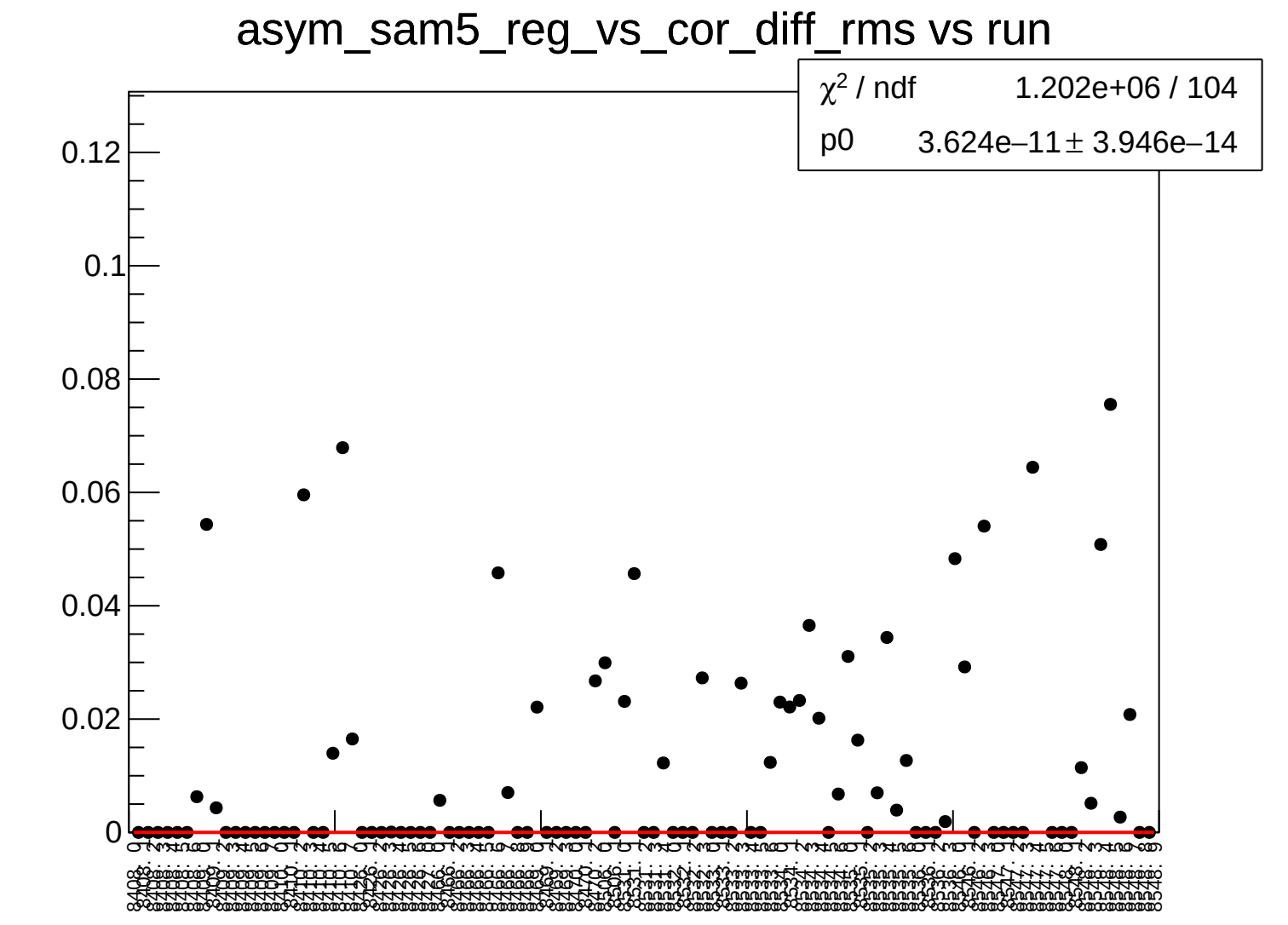

asym_sam5_mean vs run
χ² / ndf 116.9 / 104
p0 2395 ± 934.2
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 105
Mean −39.55
Std Dev 0
3
2
1
0
−1
−2
−3

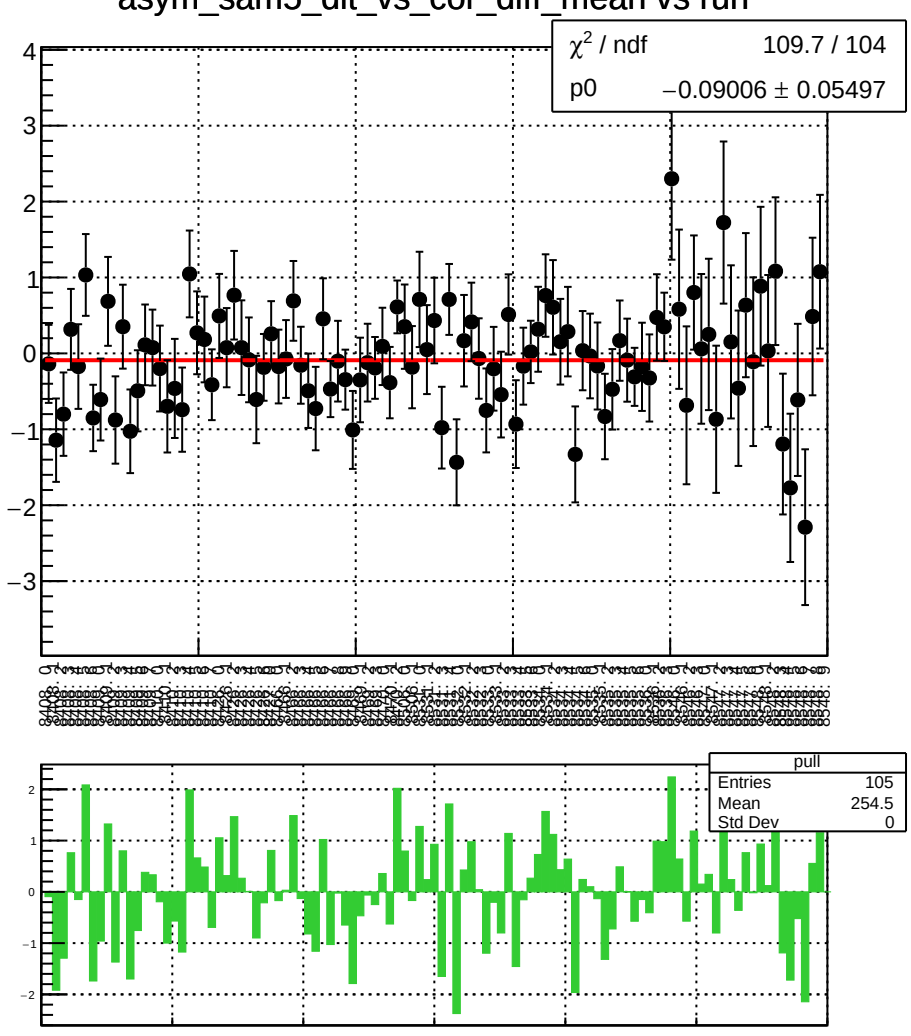

pull1D
Entries 105
Mean 0.01589
Std Dev 1.055
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

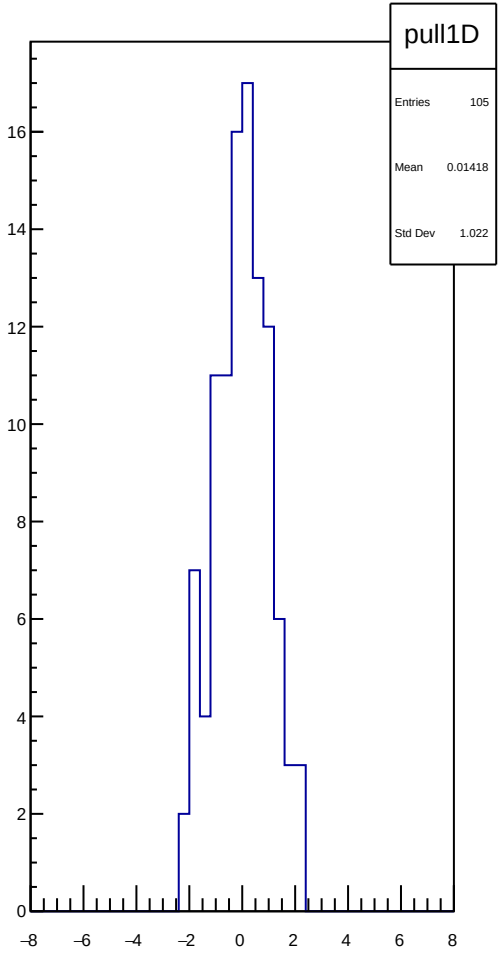

asym_sam5_rms vs run
χ² / ndf 4349 / 104
p0 943.9 ± 0.6606
1050
1000
950
900
850

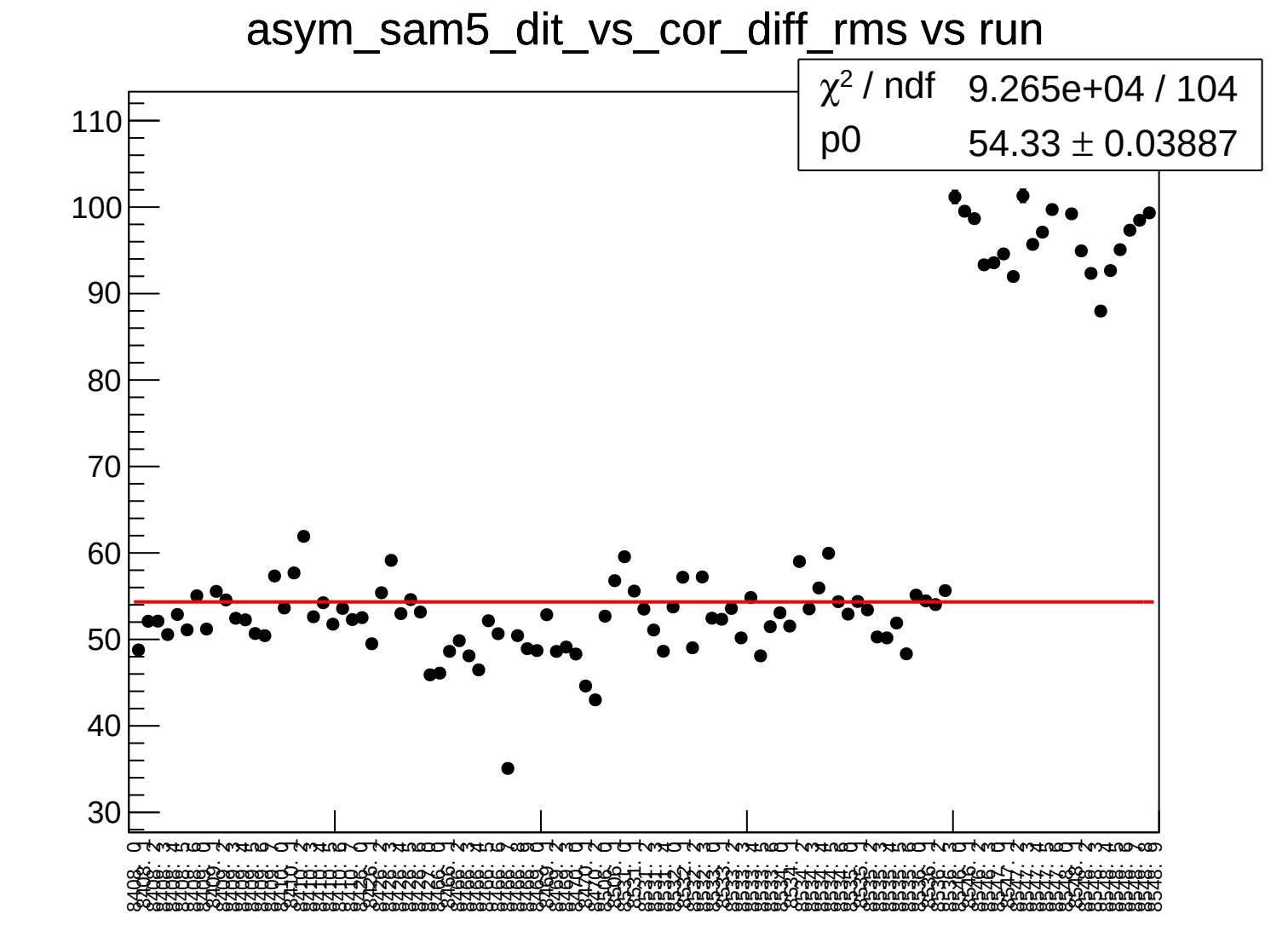

asym_sam5_reg_vs_cor_diff_mean vs run
χ² / ndf 114.9 / 104
p0 −3.493e−14 ± 5.58e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 105
Mean 78.57
Std Dev 26.66
2
1
0
−1
−2

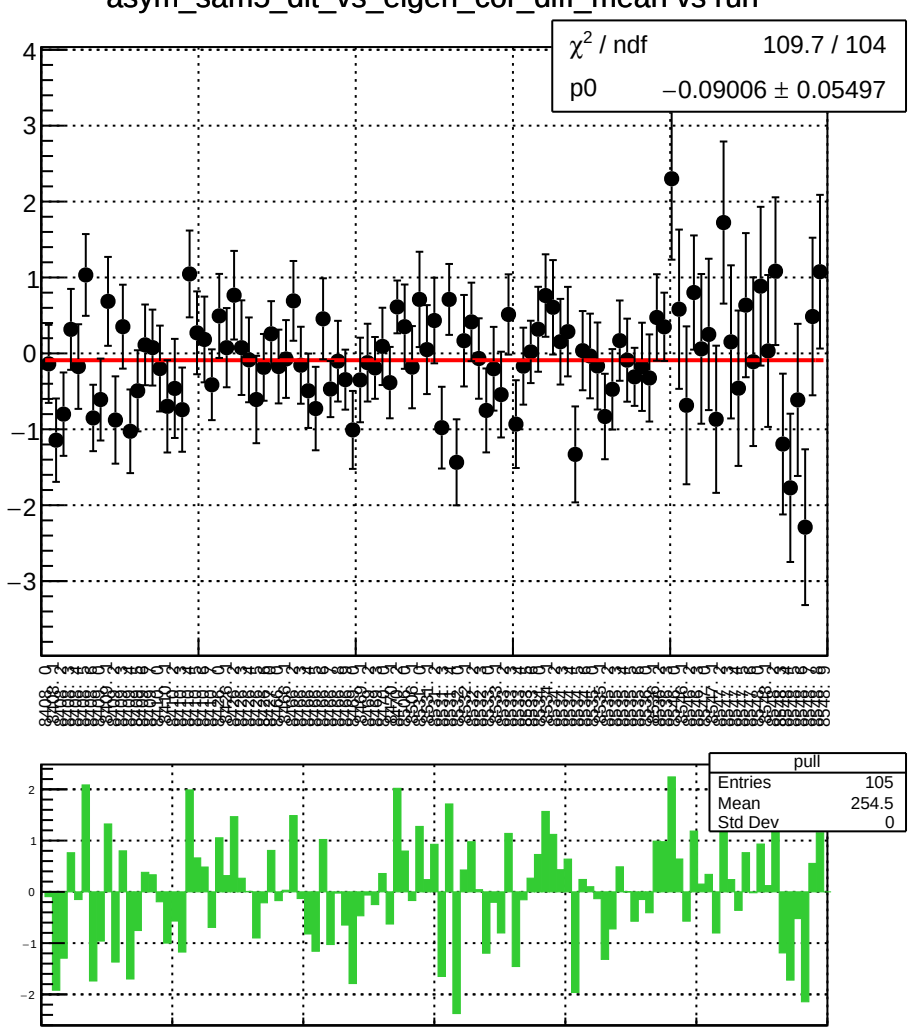

pull1D
Entries 105
Mean −0.06397
Std Dev 1.044
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

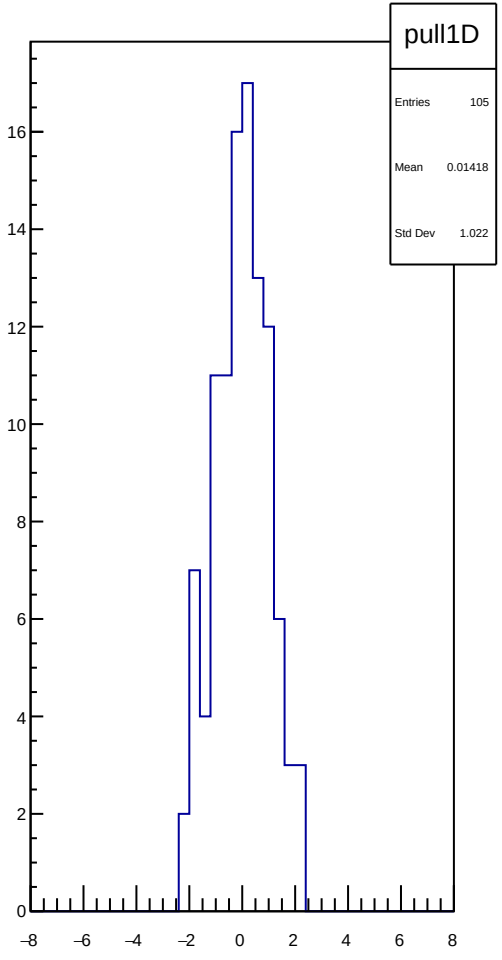

asym_sam5_reg_vs_cor_diff_rms vs run
χ² / ndf 1.202e+06 / 104
p0 3.624e−11 ± 3.946e−14
0.12
0.1
0.08
0.06
0.04
0.02
0

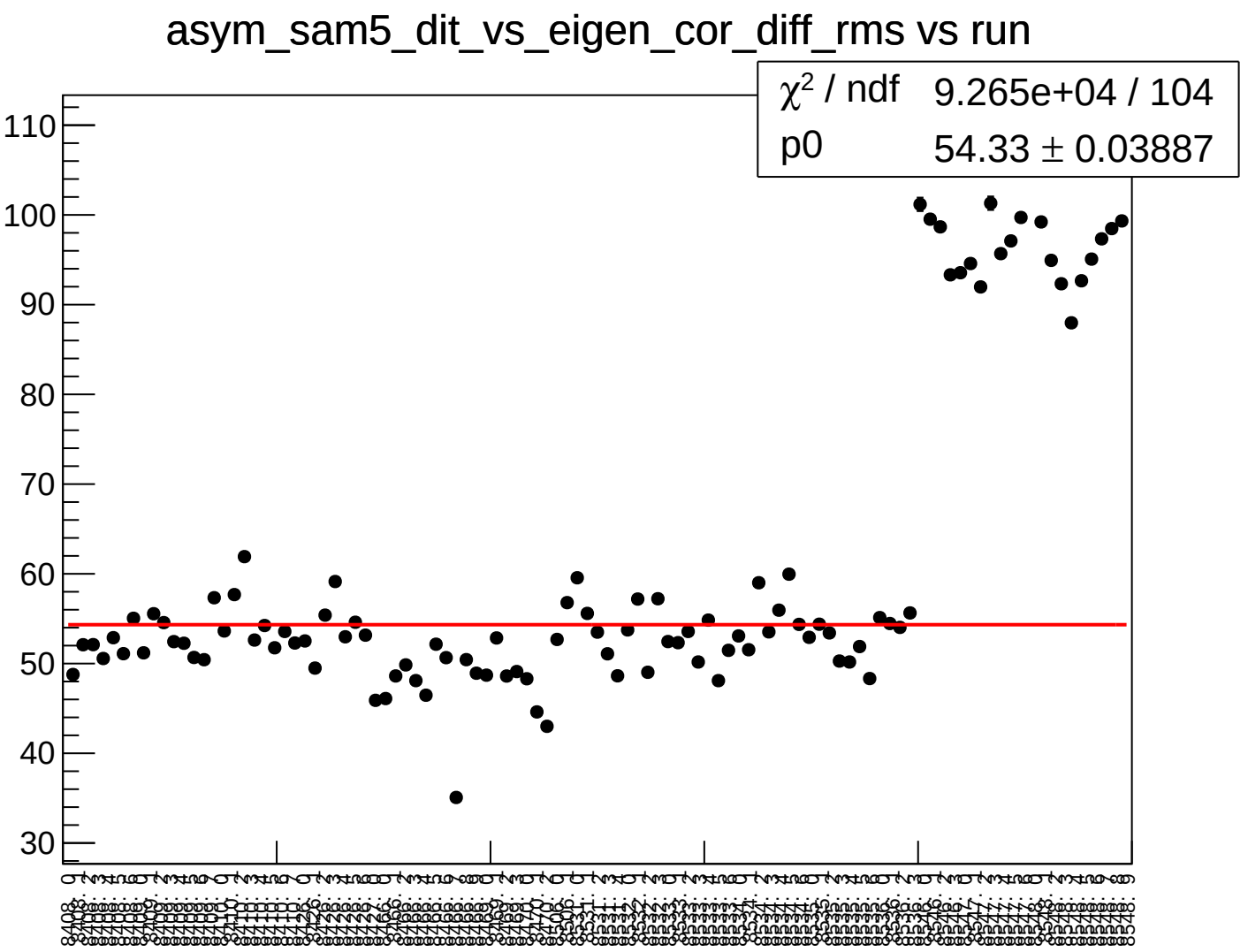

asym_sam5_dit_vs_cor_diff_mean vs run
χ² / ndf 109.7 / 104
p0 −0.09006 ± 0.05497
pull
Entries 105
Mean 254.5
Std Dev 0

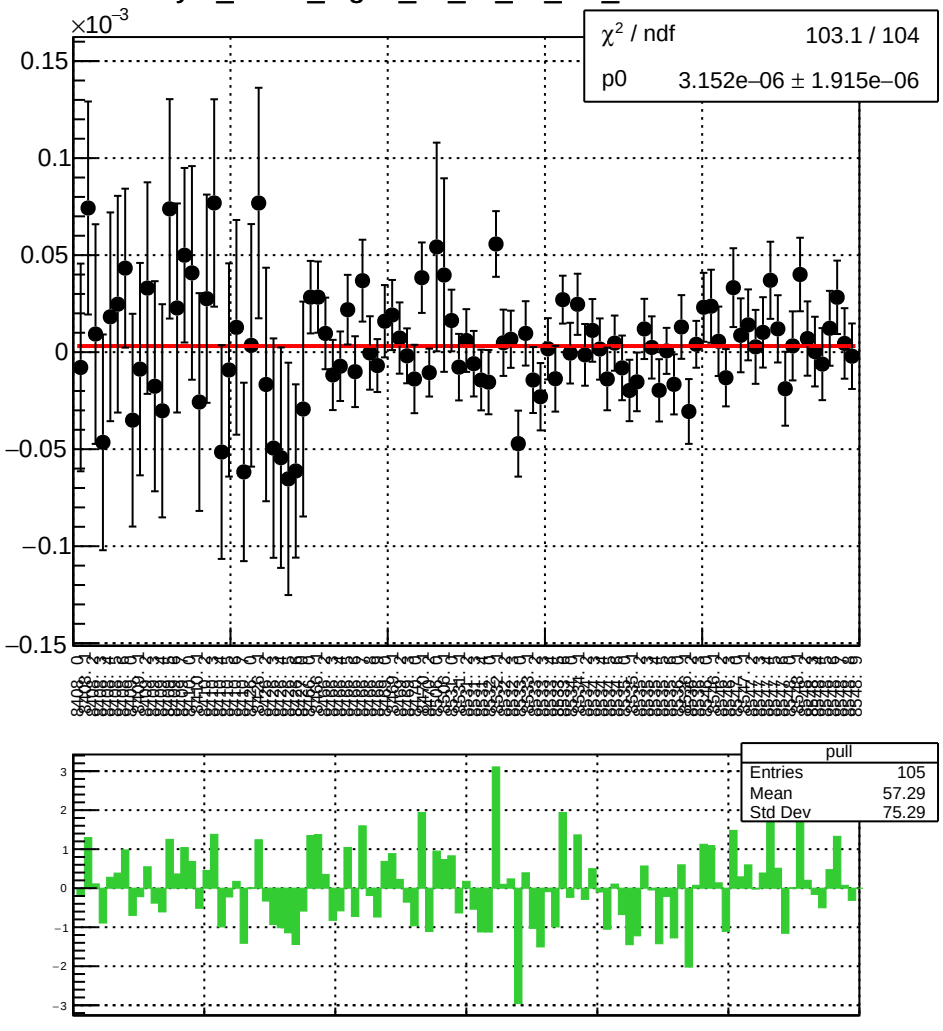

pull1D
Entries 105
Mean 0.01418
Std Dev 1.022

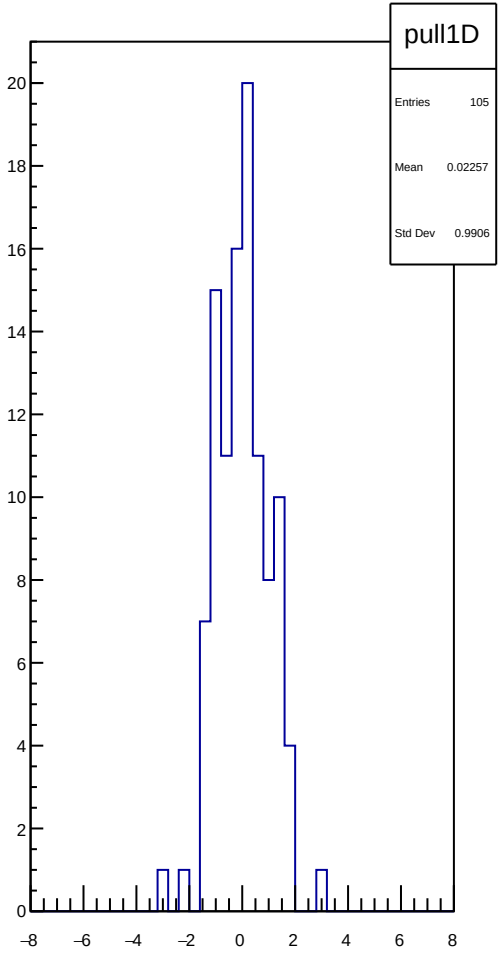

asym_sam5_dit_vs_cor_diff_rms vs run
χ^2 / ndf 9.265e+04 / 104
p0 54.33 ± 0.03887
110
100
90
80
70
60
50
40
30

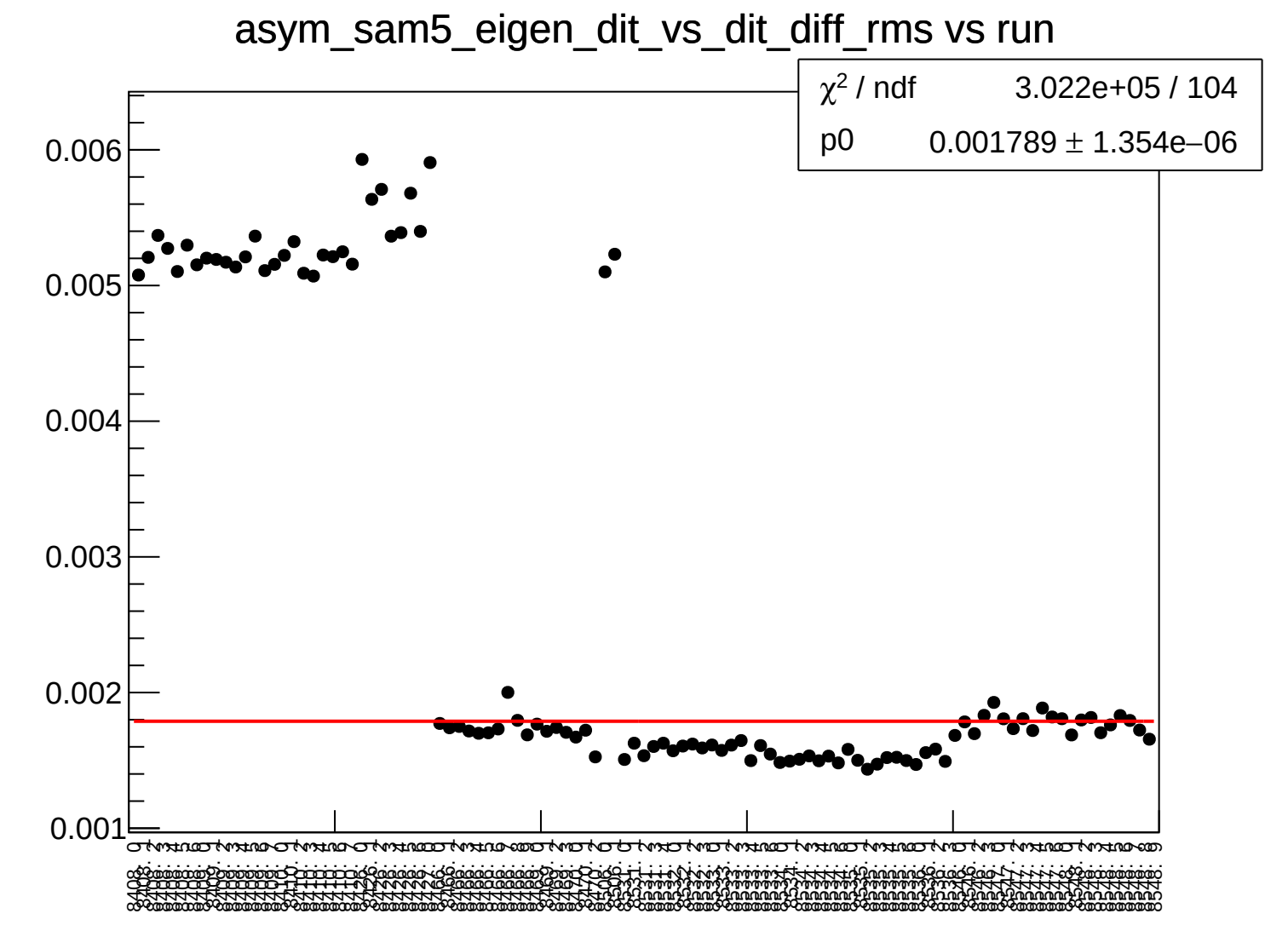

asym_sam5_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.7 / 104
p0 −0.09006 ± 0.05497
pull
Entries 105
Mean 254.5
Std Dev 0

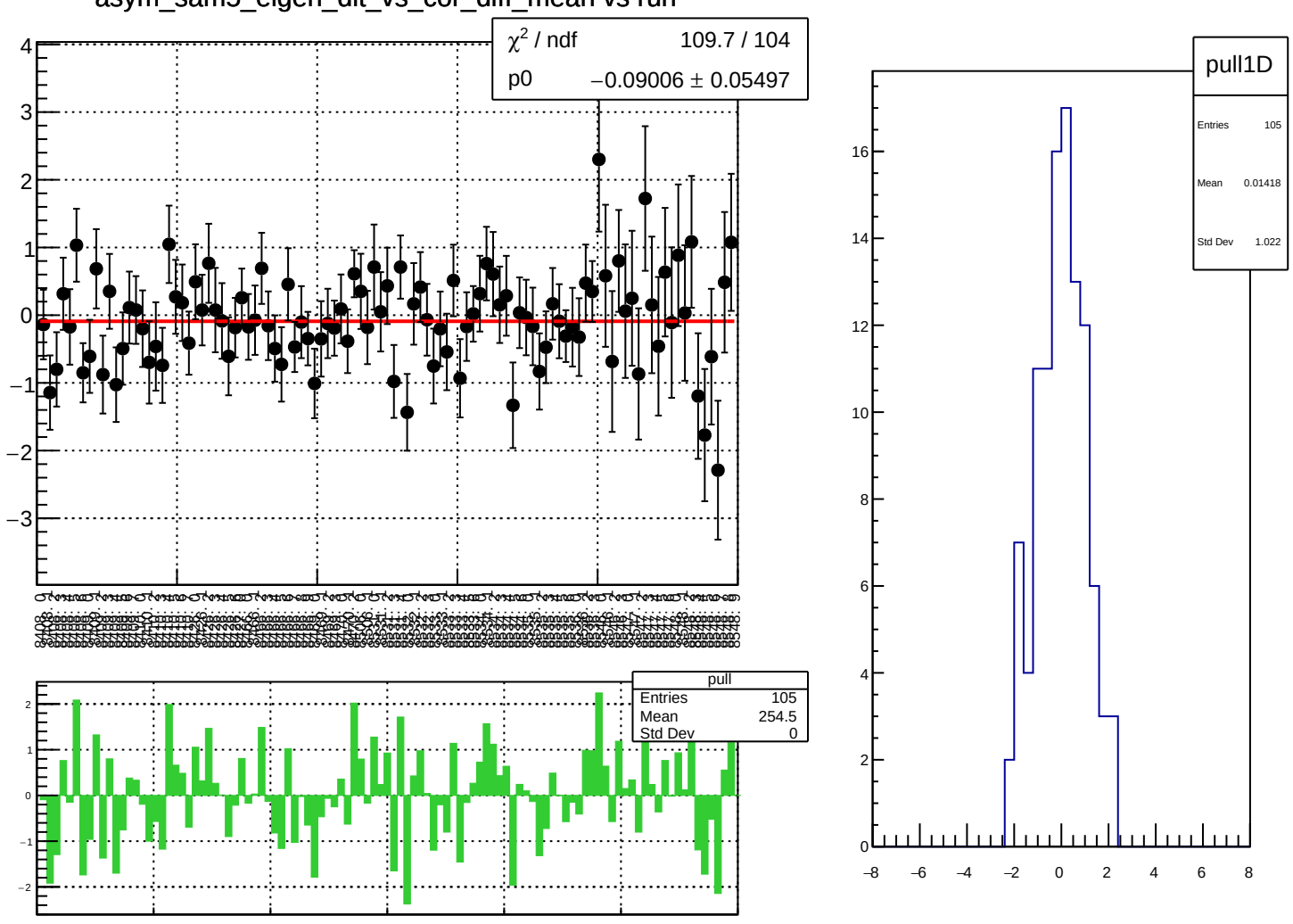

pull1D
Entries 105
Mean 0.01418
Std Dev 1.022

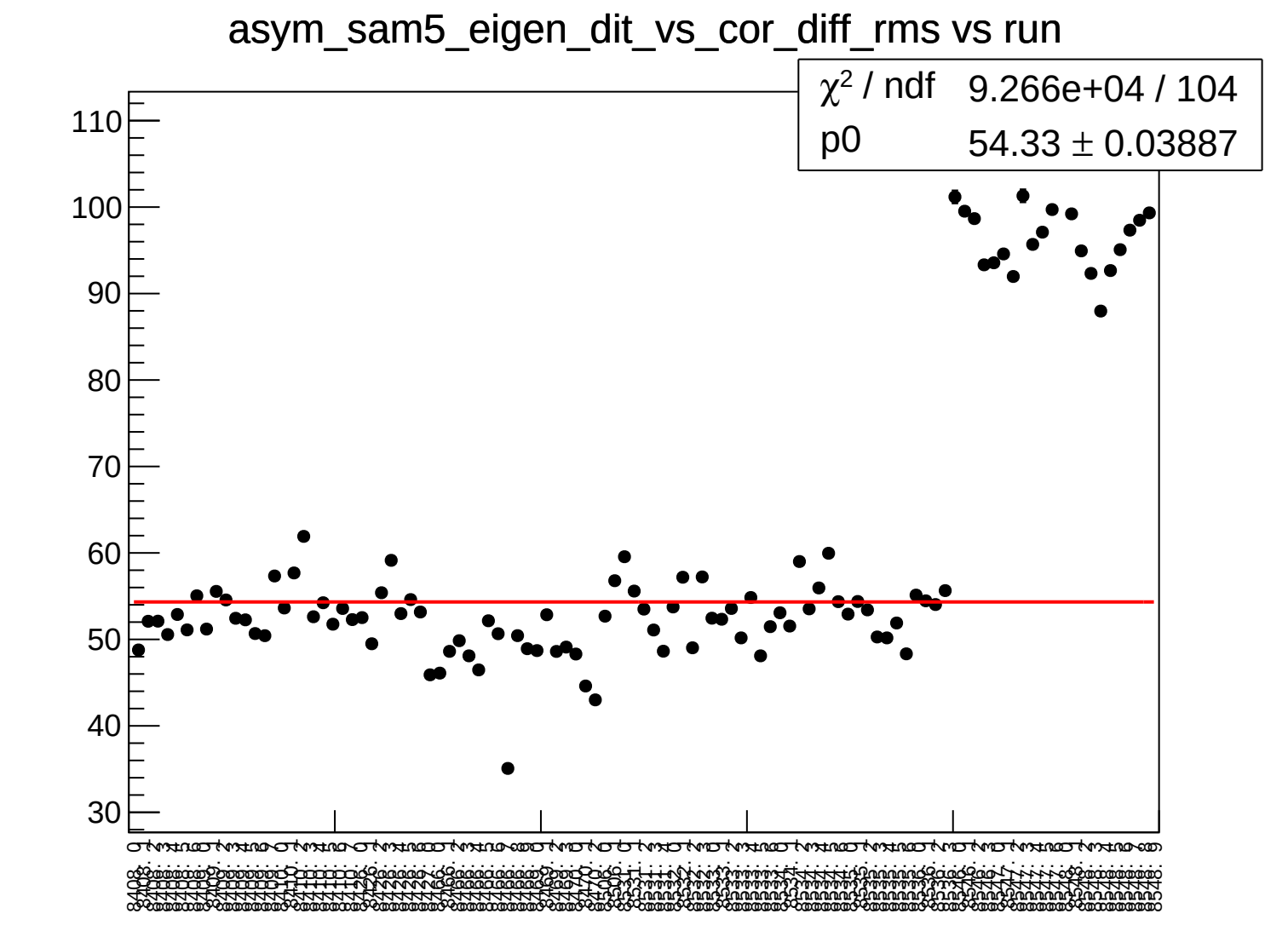

asym_sam5_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.265e+04 / 104
p0 54.33 ± 0.03887
110
100
90
80
70
60
50
40
30

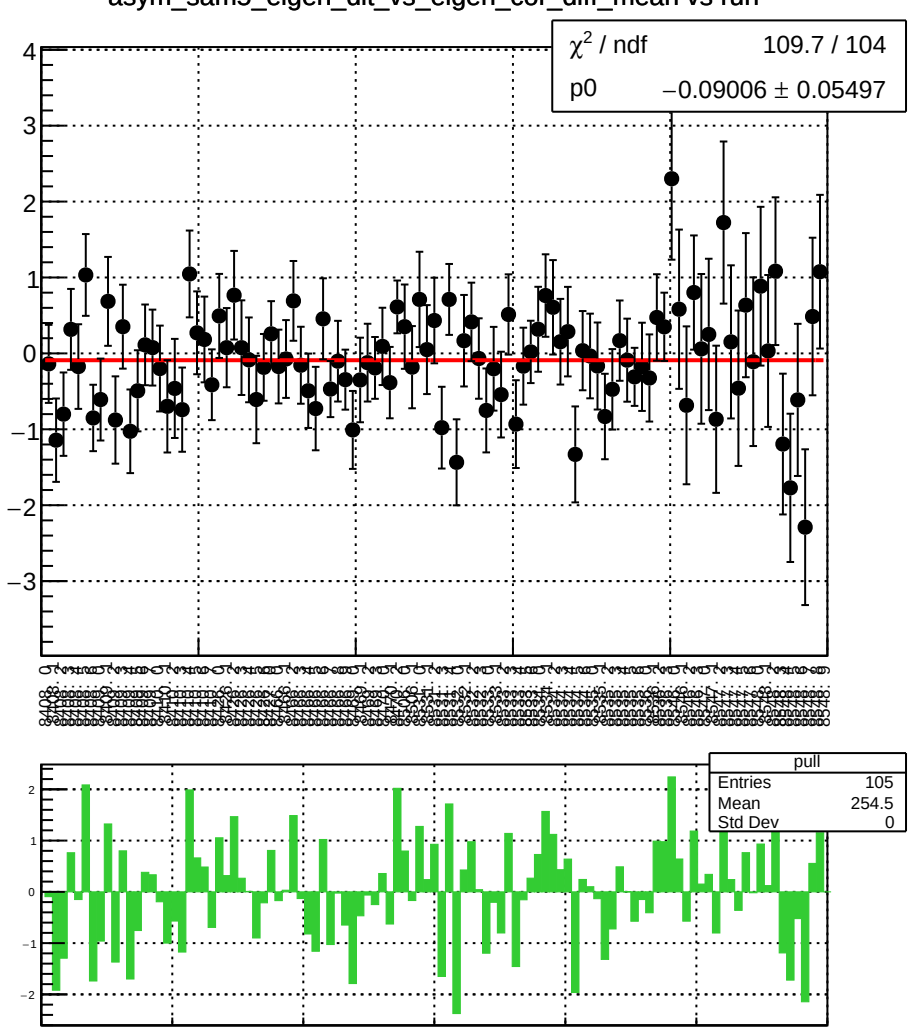

asym_sam5_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 103.1 / 104
p0 3.152e−06 ± 1.915e−06
pull
Entries 105
Mean 57.29
Std Dev 75.29

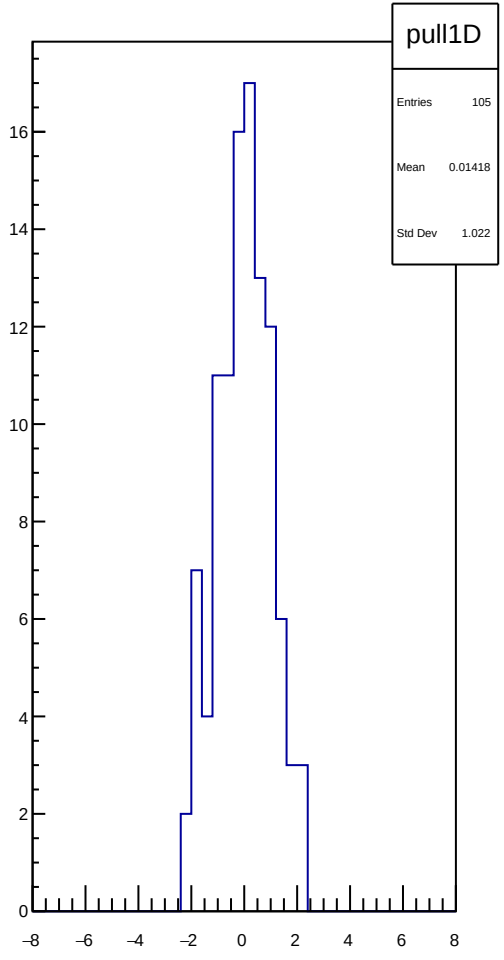

pull1D
Entries 105
Mean 0.02257
Std Dev 0.9906

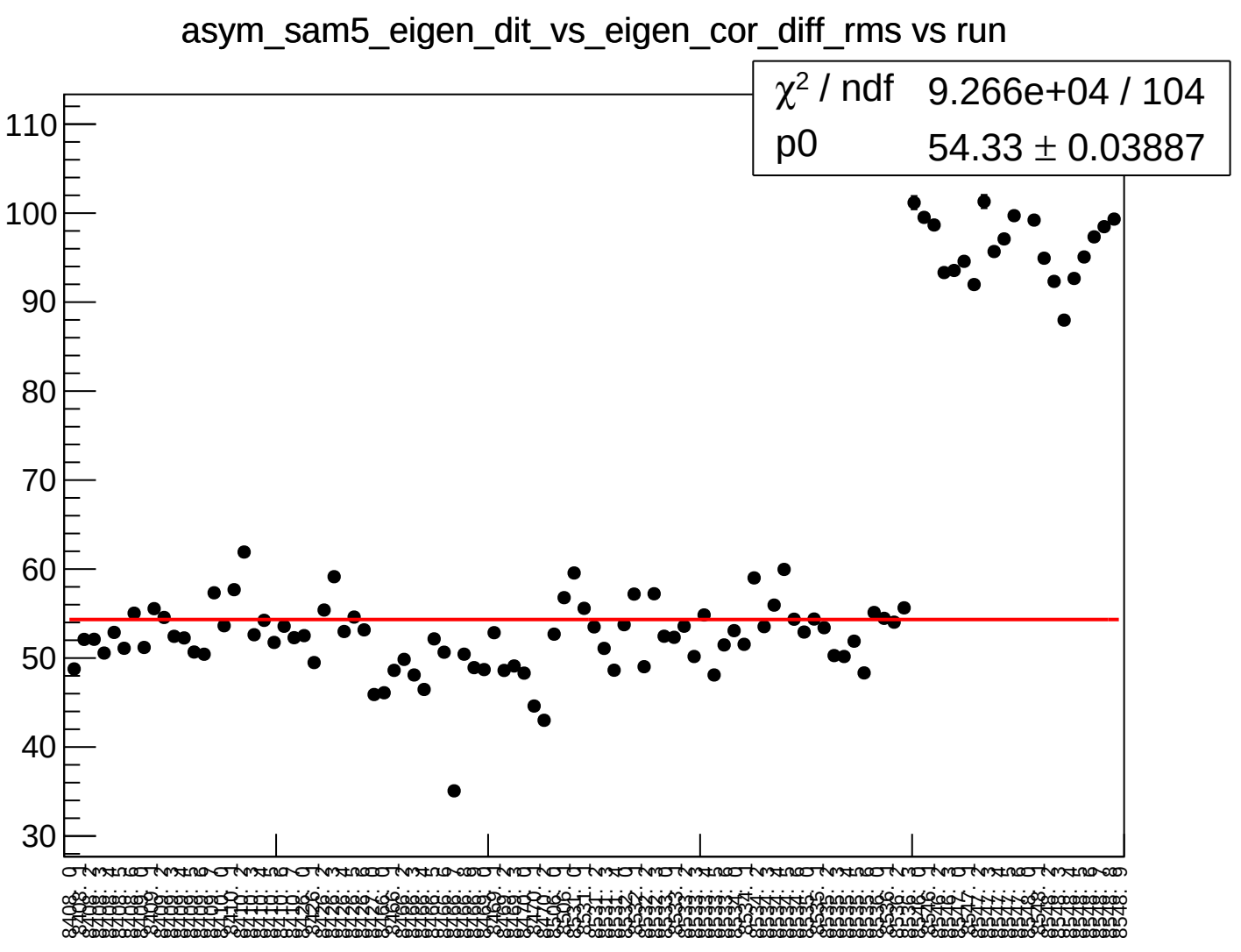

asym_sam5_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.022e+05 / 104
p0 0.001789 ± 1.354e−06
0.006
0.005
0.004
0.003
0.002
0.001

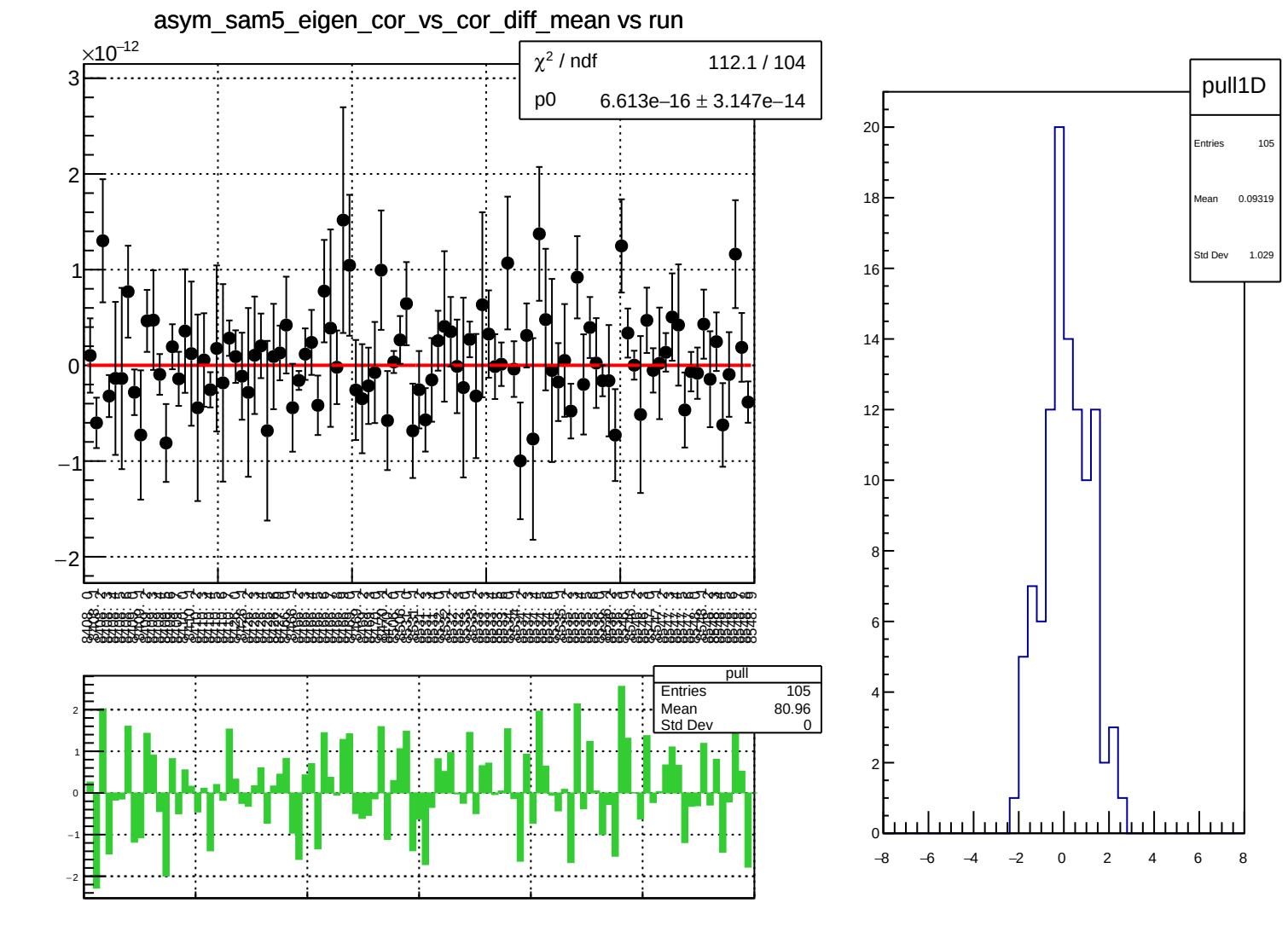

asym_sam5_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 109.7 / 104
p0 −0.09006 ± 0.05497
pull
Entries 105
Mean 254.5
Std Dev 0
pull1D
Entries 105
Mean 0.01418
Std Dev 1.022

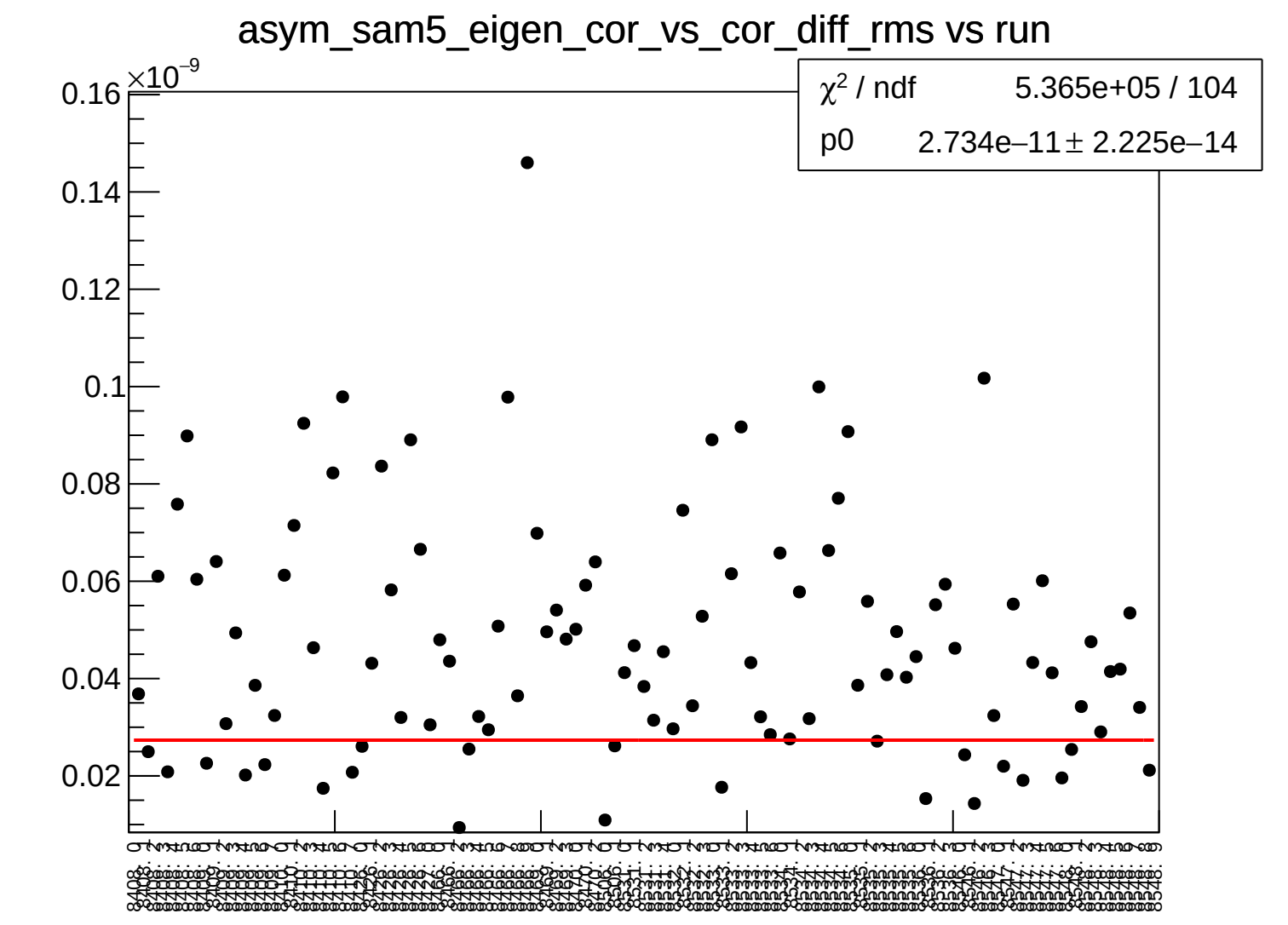

asym_sam5_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 9.266e+04 / 104
p0 54.33 ± 0.03887
110
100
90
80
70
60
50
40
30

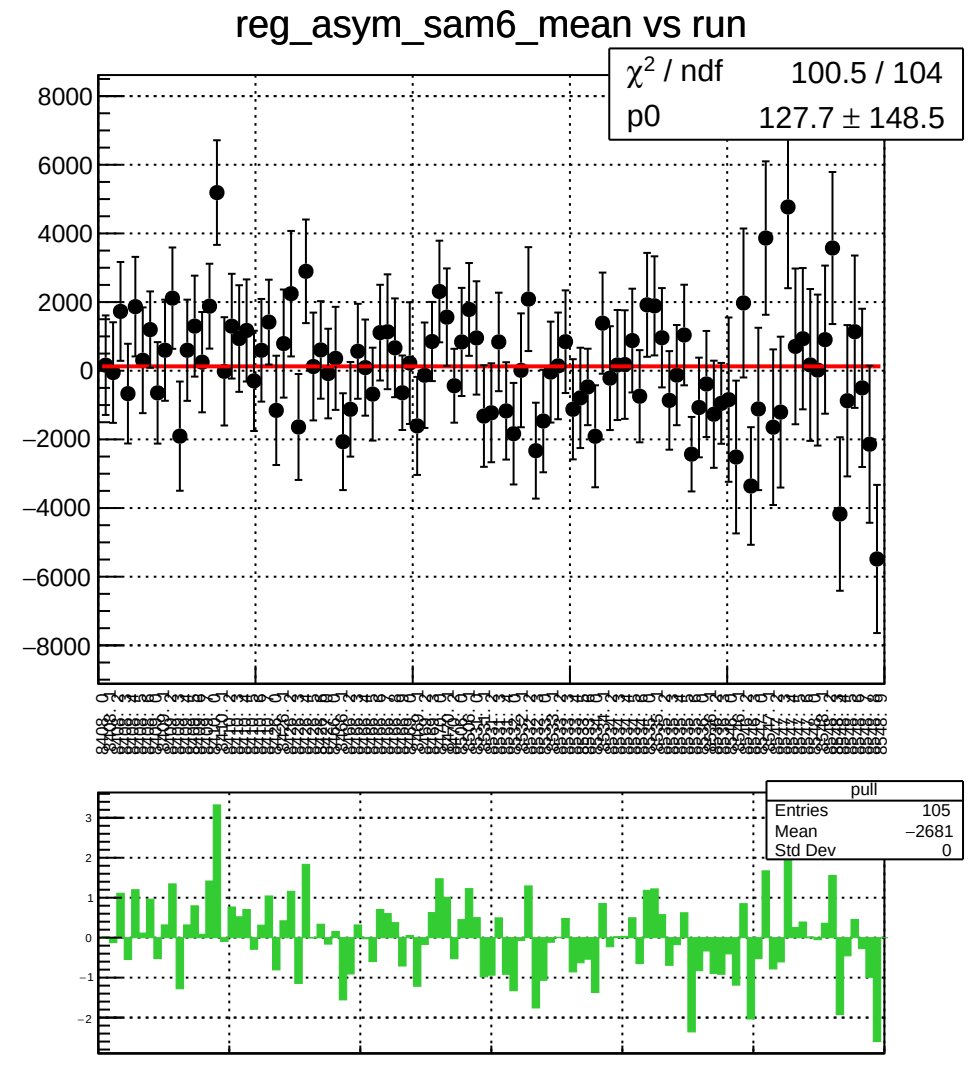

asym_sam5_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.7 / 104
p0 −0.09006 ± 0.05497
pull
Entries 105
Mean 254.5
Std Dev 0

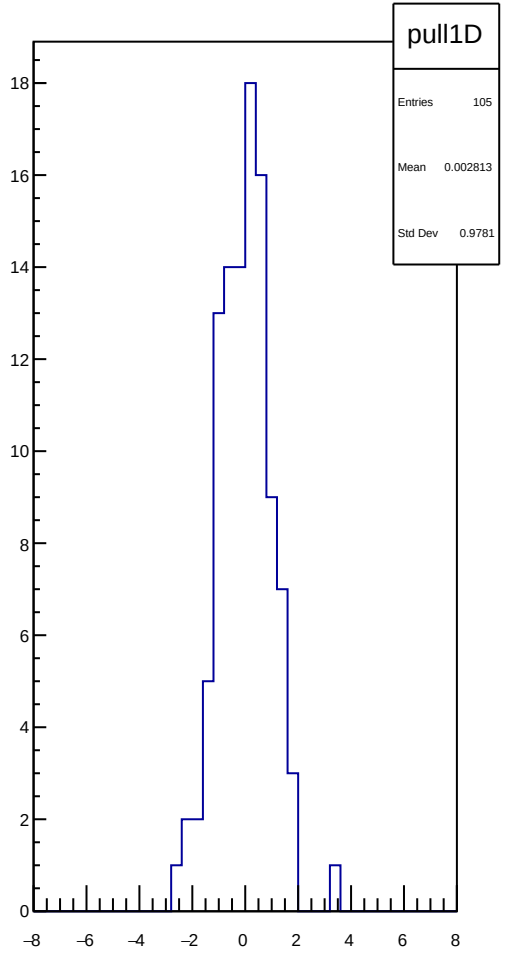

pull1D
Entries 105
Mean 0.01418
Std Dev 1.022

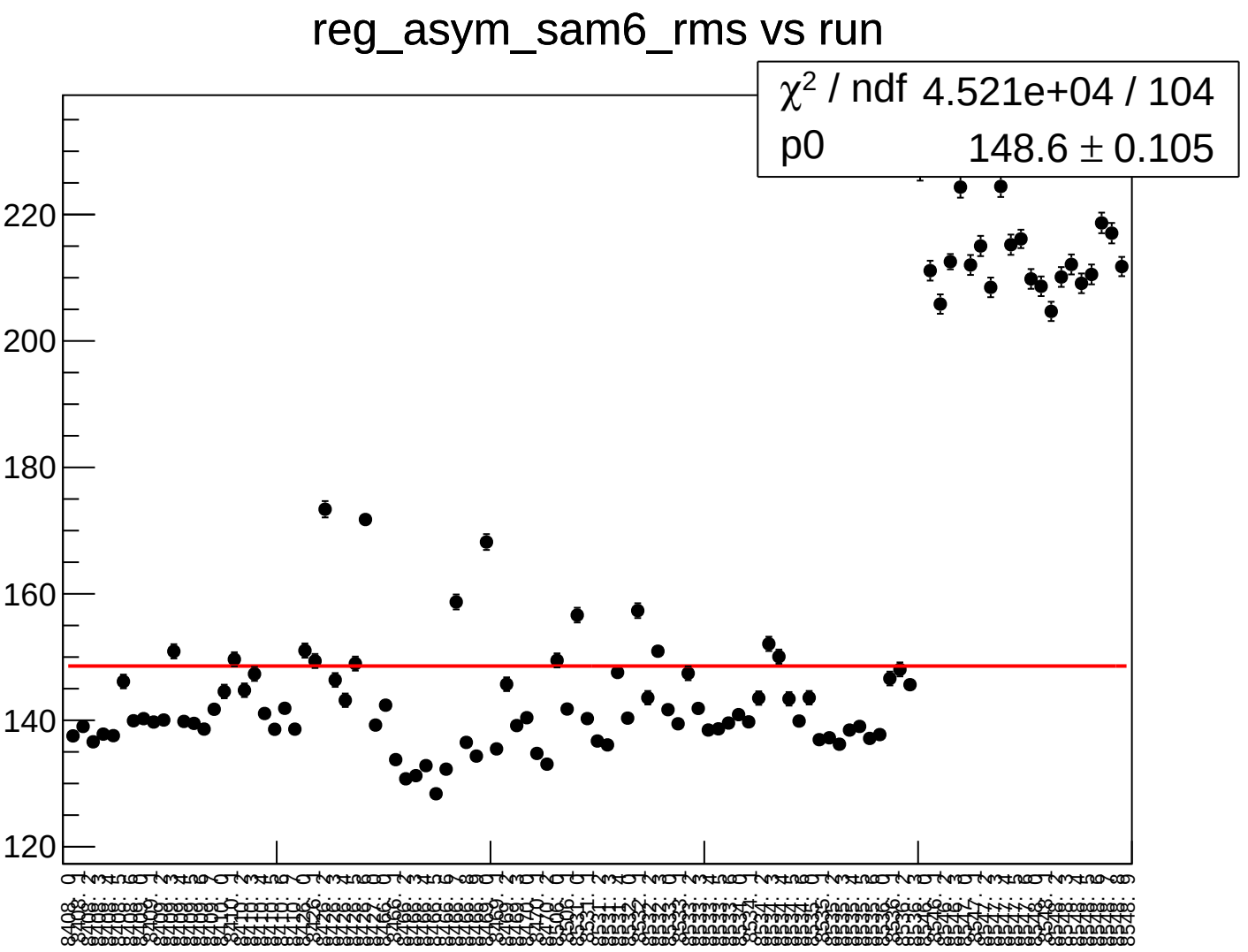

asym_sam5_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.266e+04 / 104
p0 54.33 ± 0.03887
110
100
90
80
70
60
50
40
30

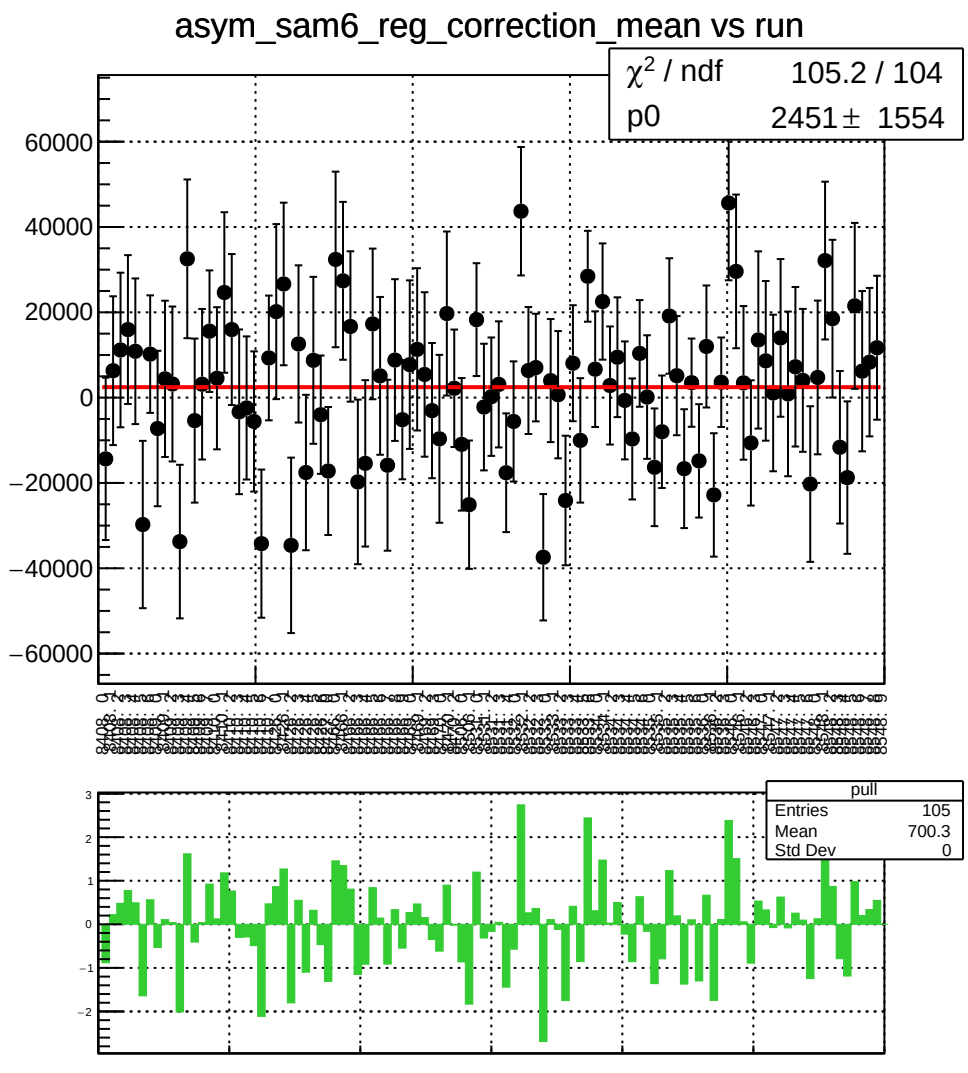

asym_sam5_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 112.1 / 104
p0 6.613e−16 ± 3.147e−14
pull
Entries 105
Mean 80.96
Std Dev 0
pull1D
Entries 105
Mean 0.09319
Std Dev 1.029

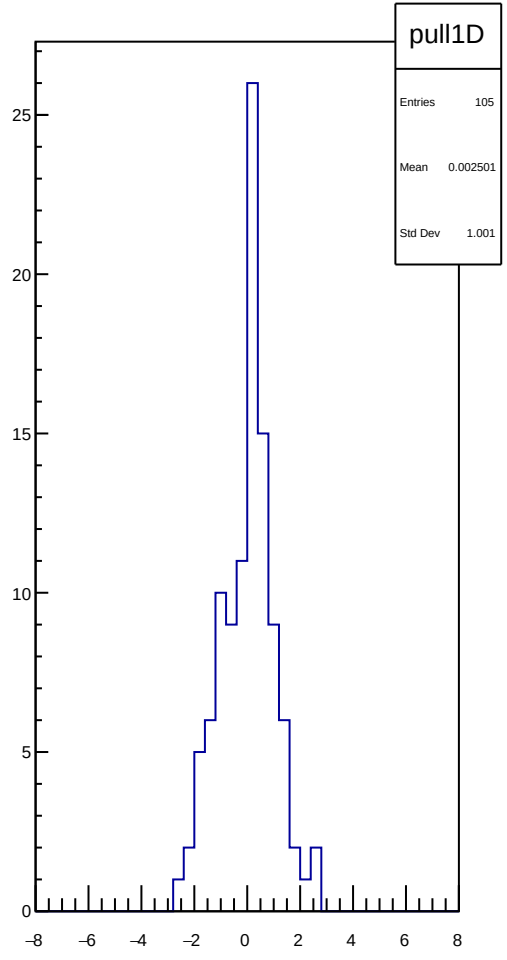

asym_sam5_eigen_cor_vs_cor_diff_rms vs run
$\times 10^{-9}$
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
χ^2 / ndf 5.365e+05 / 104
p0 2.734e−11 ± 2.225e−14

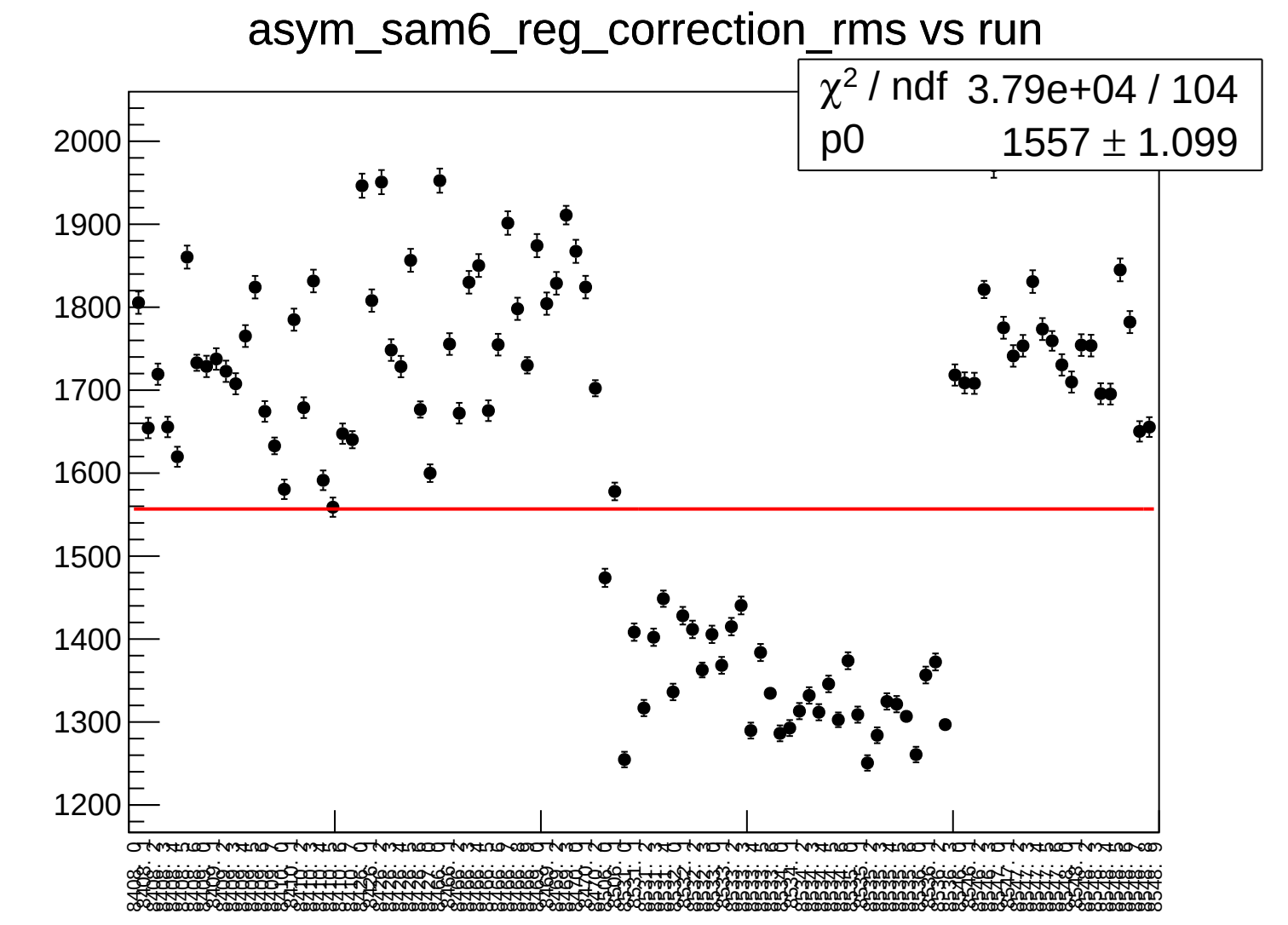

reg_asym_sam6_mean vs run
χ² / ndf 100.5 / 104
p0 127.7 ± 148.5
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 105
Mean −2681
Std Dev 0
3
2
1
0
−1
−2

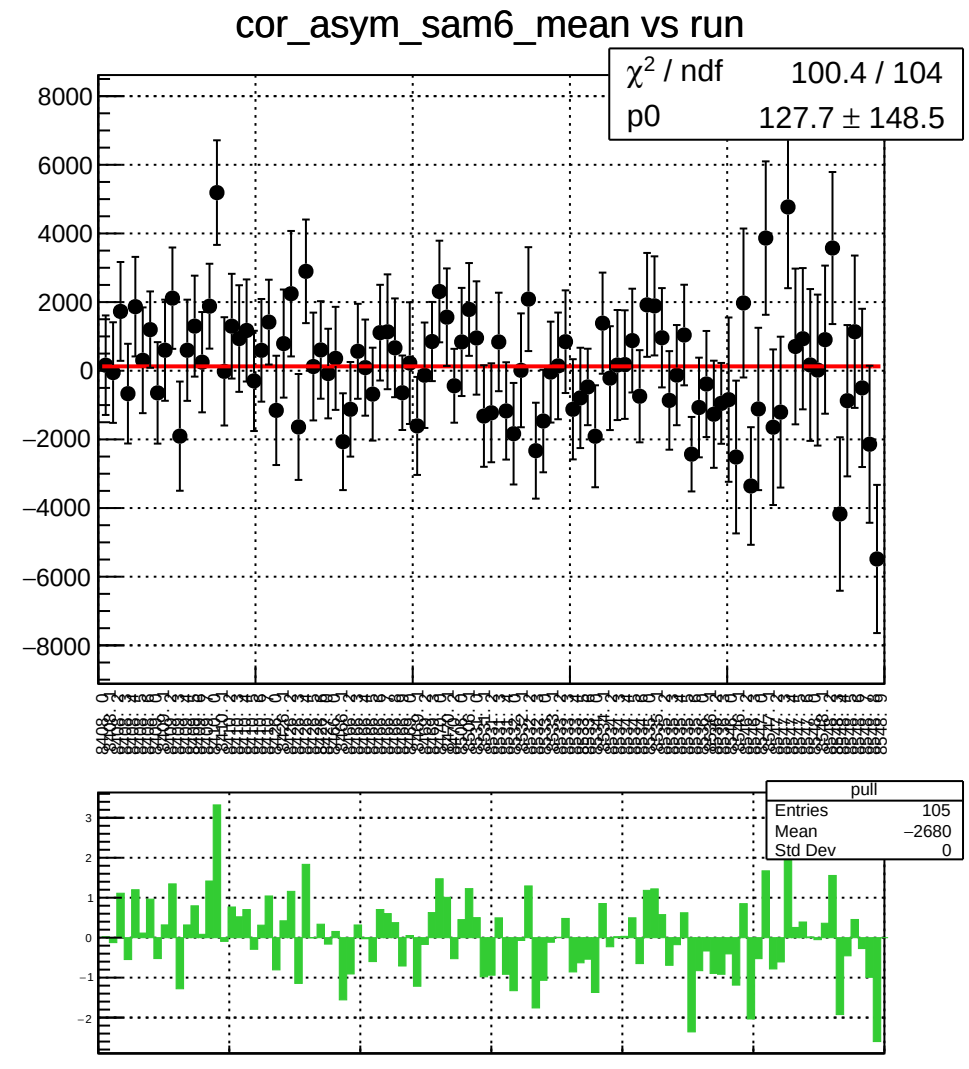

pull1D
Entries 105
Mean 0.002813
Std Dev 0.9781
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

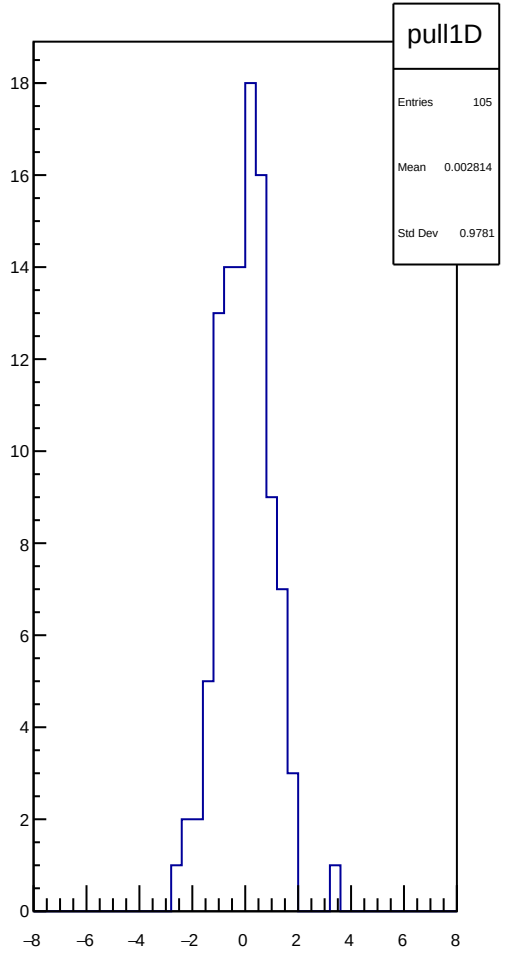

reg_asym_sam6_rms vs run
χ² / ndf 4.521e+04 / 104
p0 148.6 ± 0.105
220
200
180
160
140
120

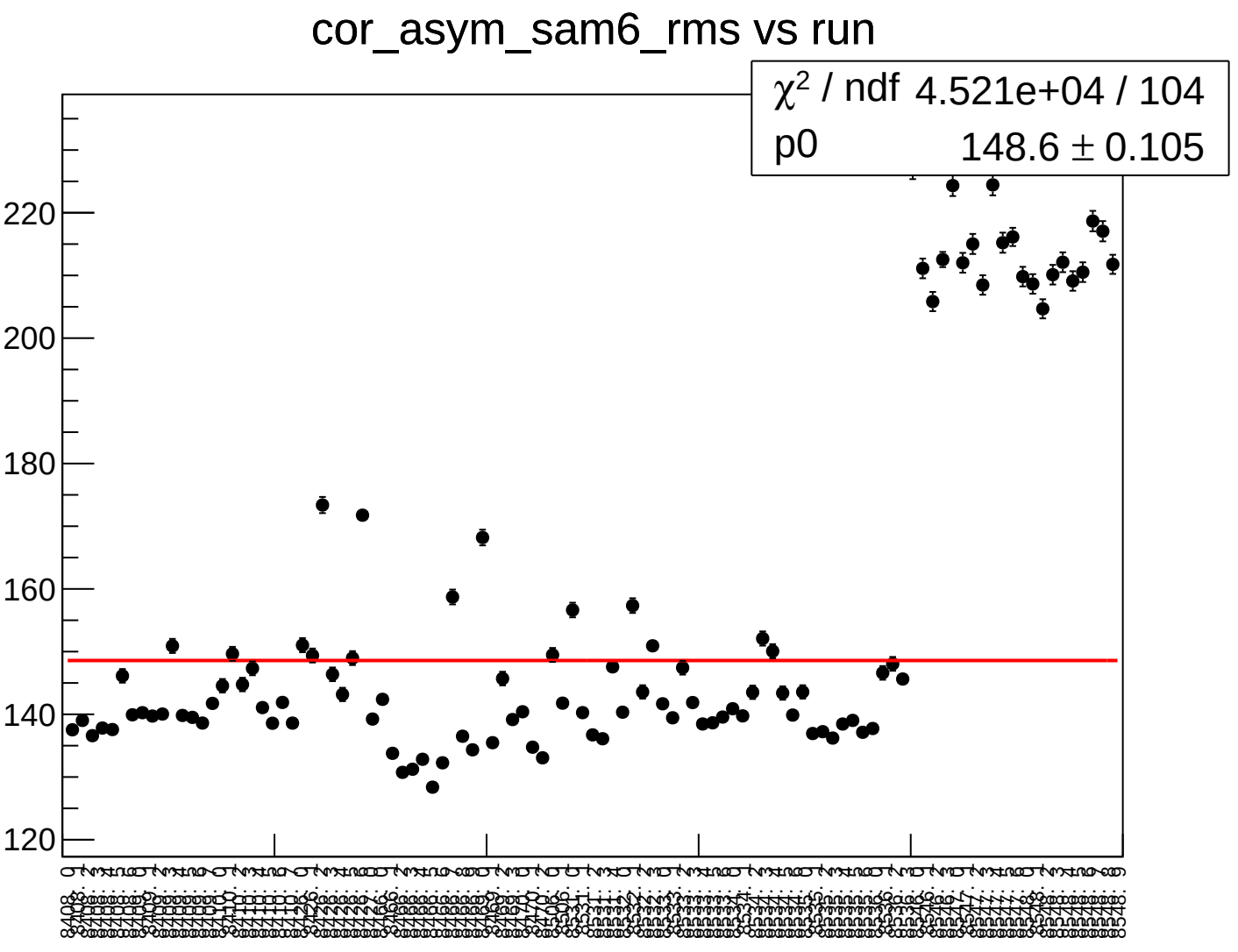

asym_sam6_reg_correction_mean vs run
χ² / ndf 105.2 / 104
p0 2451 ± 1554
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean 700.3
Std Dev 0
3
2
1
0
−1
−2

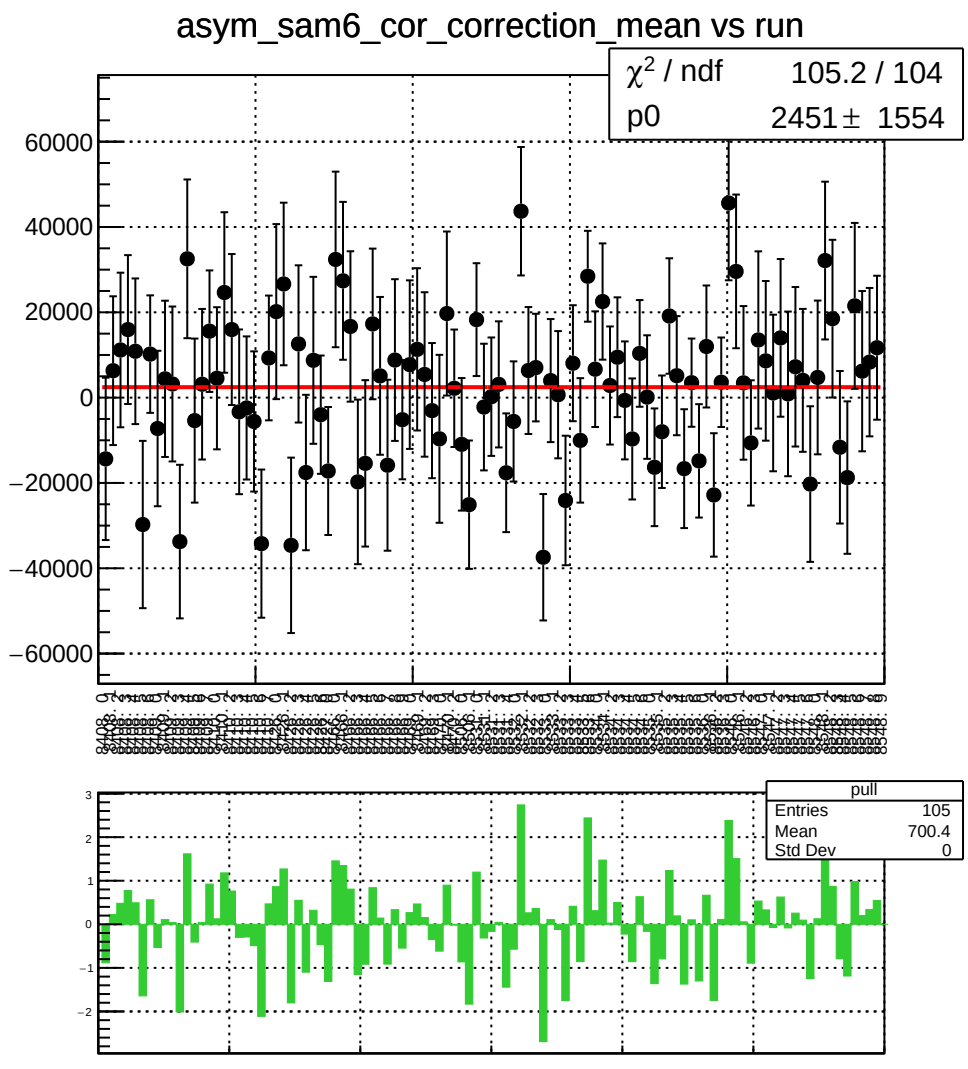

pull1D
Entries 105
Mean 0.002501
Std Dev 1.001
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

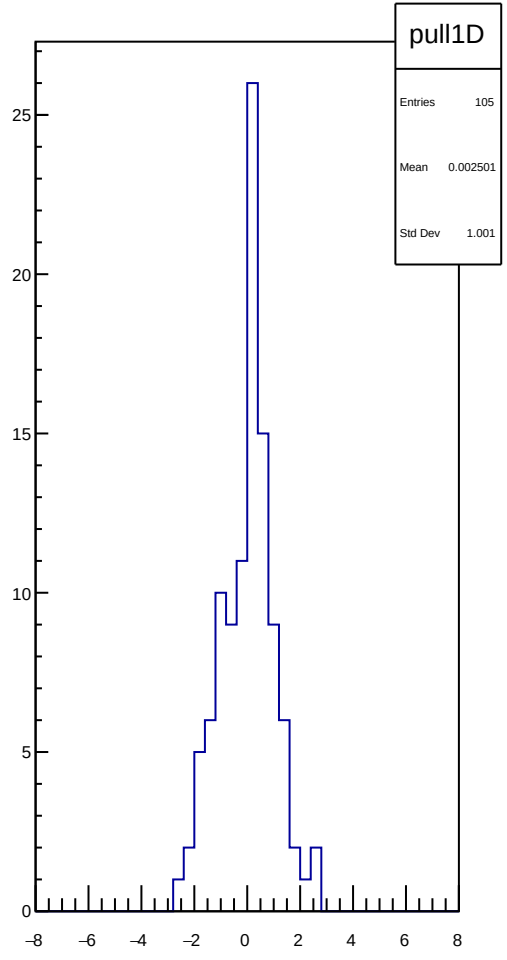

asym_sam6_reg_correction_rms vs run
χ^2 / ndf 3.79e+04 / 104
p0 1557 ± 1.099
2000
1900
1800
1700
1600
1500
1400
1300
1200

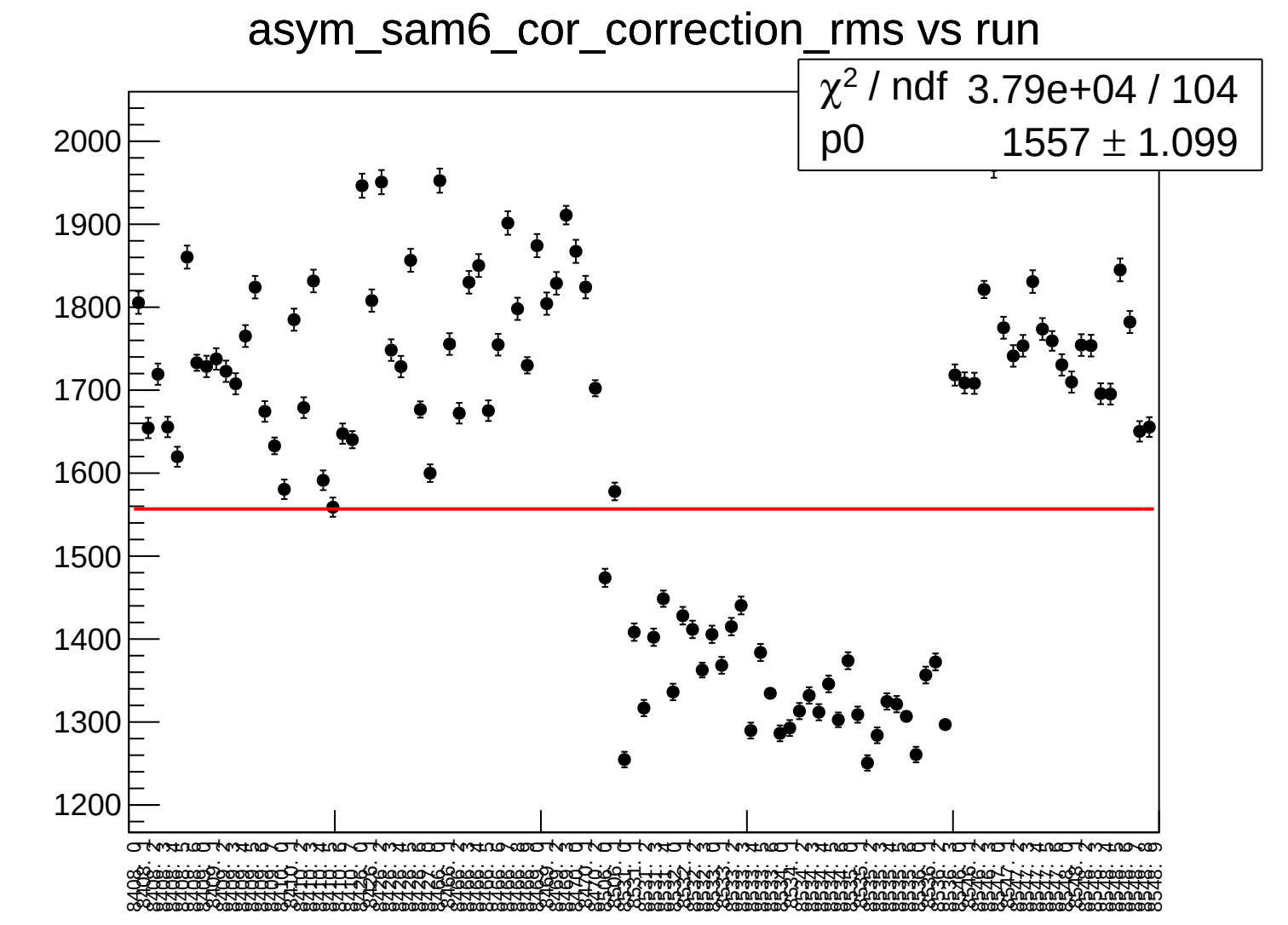

cor_asym_sam6_mean vs run
χ² / ndf 100.4 / 104
p0 127.7 ± 148.5
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 105
Mean −2680
Std Dev 0
3
2
1
0
−1
−2

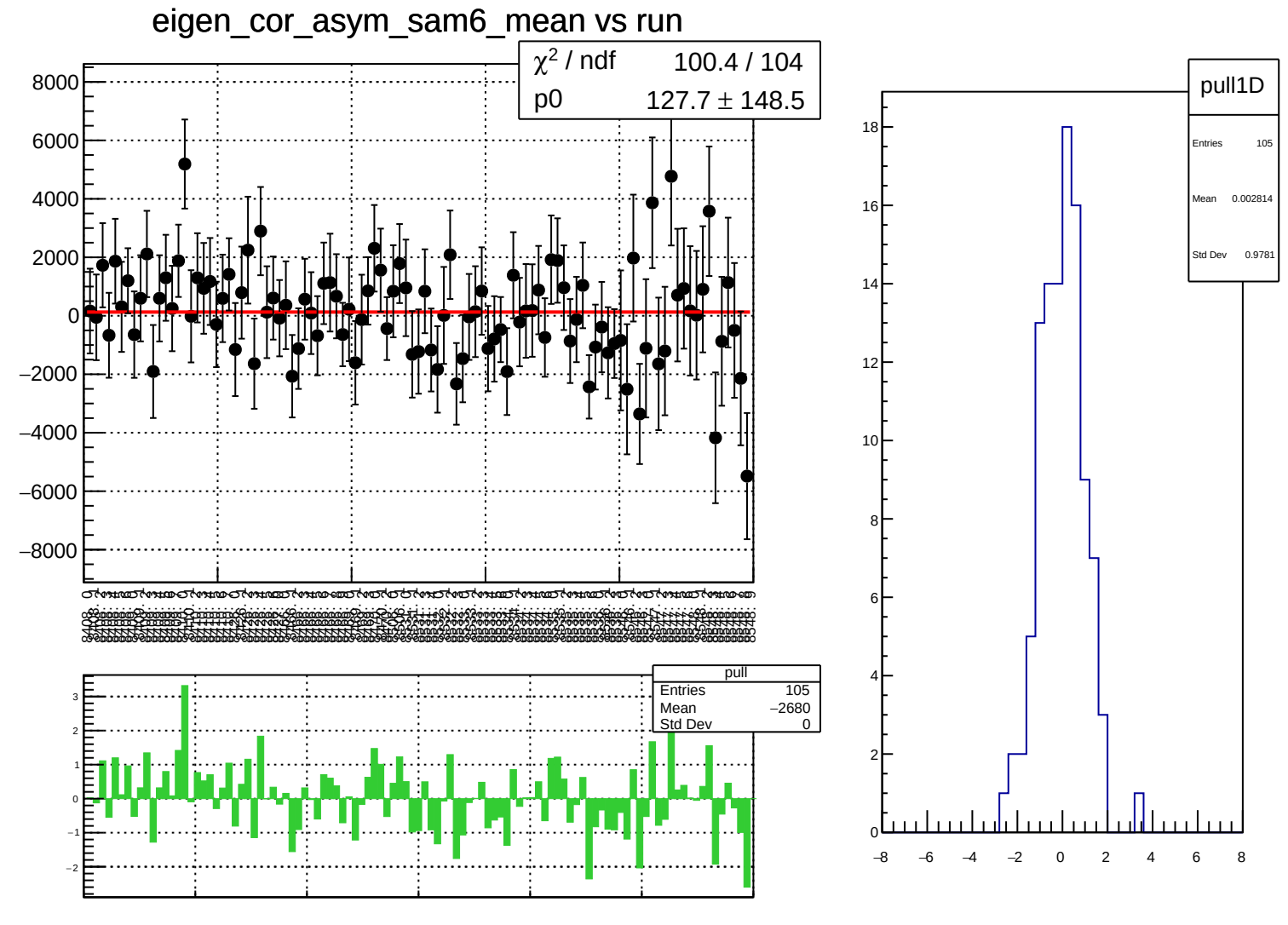

pull1D
Entries 105
Mean 0.002814
Std Dev 0.9781
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

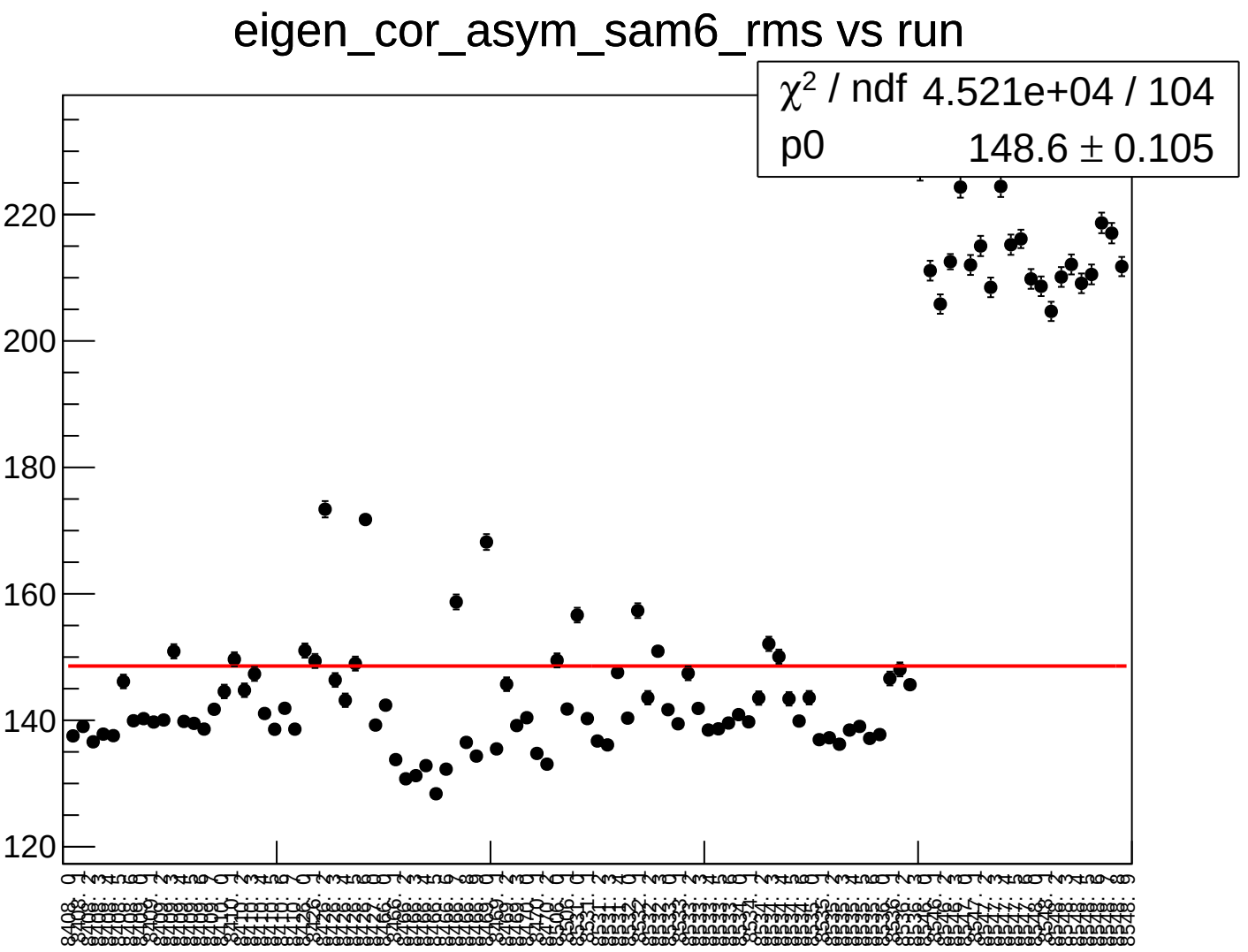

cor_asym_sam6_rms vs run
χ² / ndf 4.521e+04 / 104
p0 148.6 ± 0.105
220
200
180
160
140
120

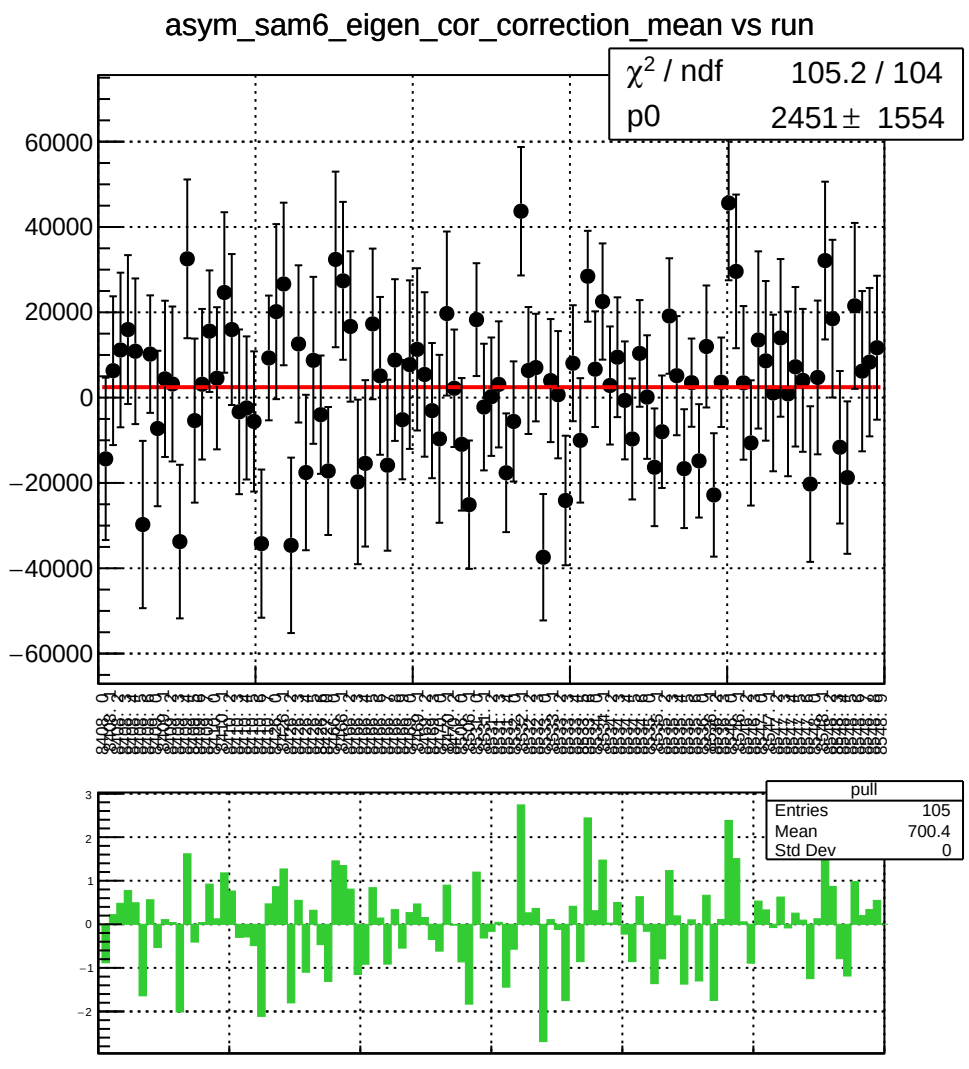

asym_sam6_cor_correction_mean vs run
χ² / ndf 105.2 / 104
p0 2451 ± 1554
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean 700.4
Std Dev 0
3
2
1
0
−1
−2

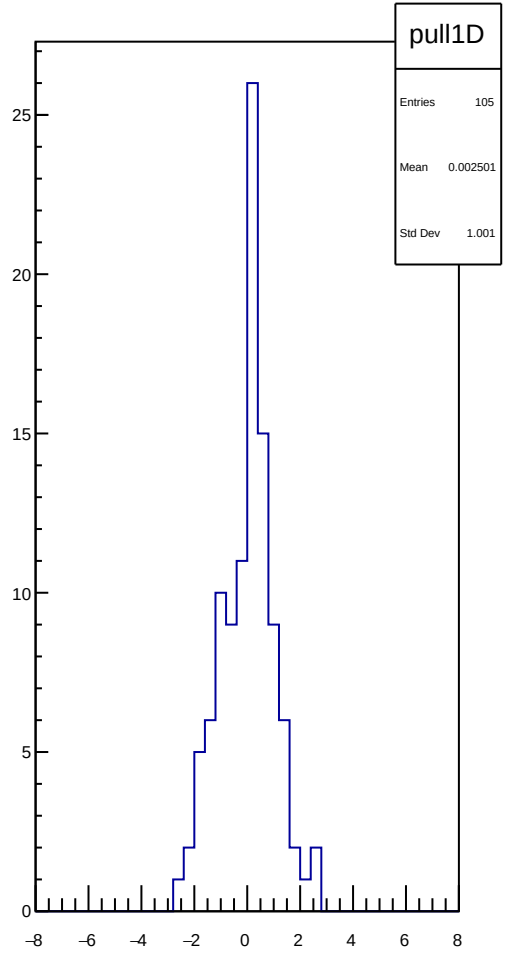

pull1D
Entries 105
Mean 0.002501
Std Dev 1.001
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

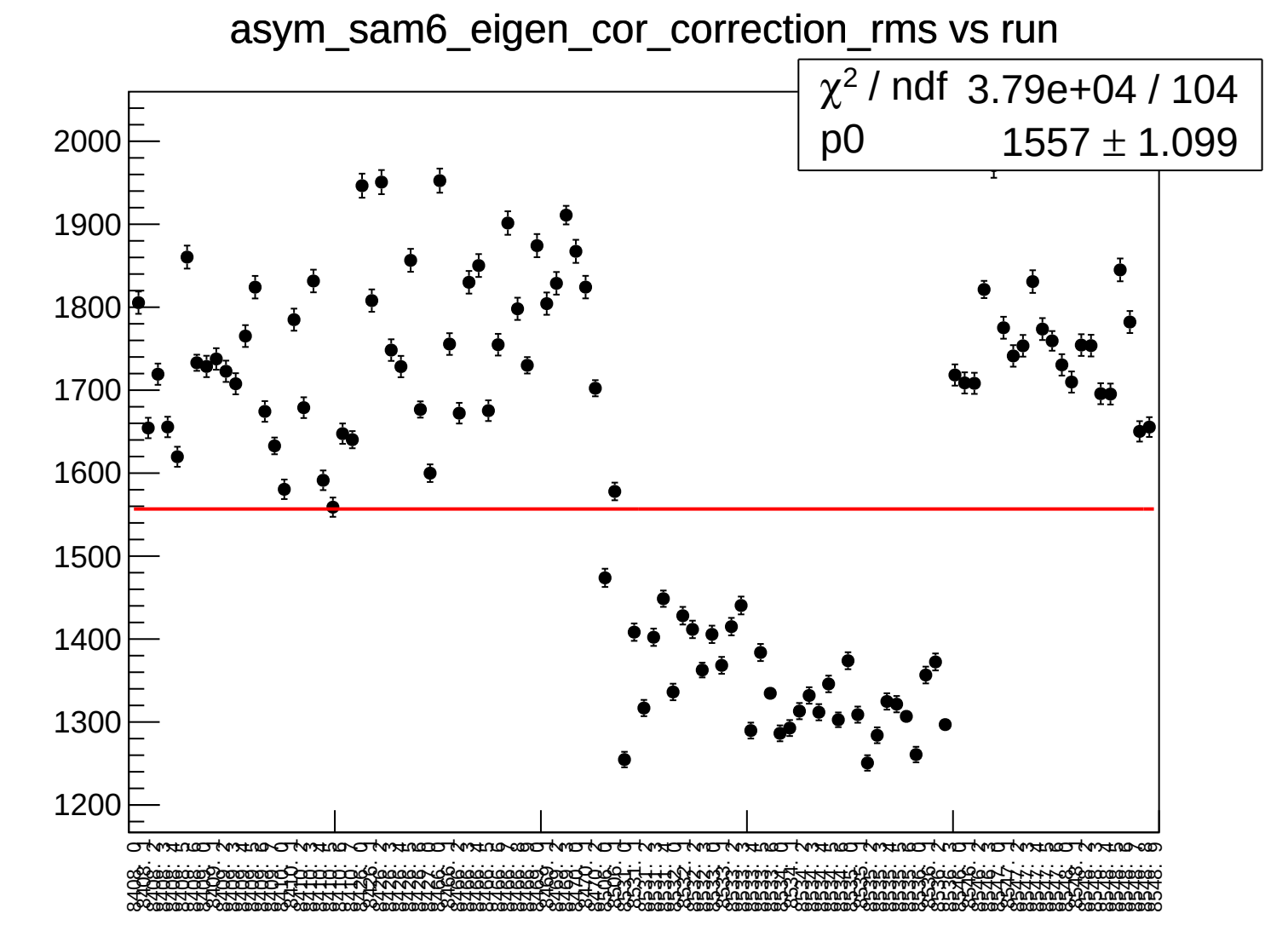

asym_sam6_cor_correction_rms vs run
χ^2 / ndf 3.79e+04 / 104
p0 1557 ± 1.099
2000
1900
1800
1700
1600
1500
1400
1300
1200

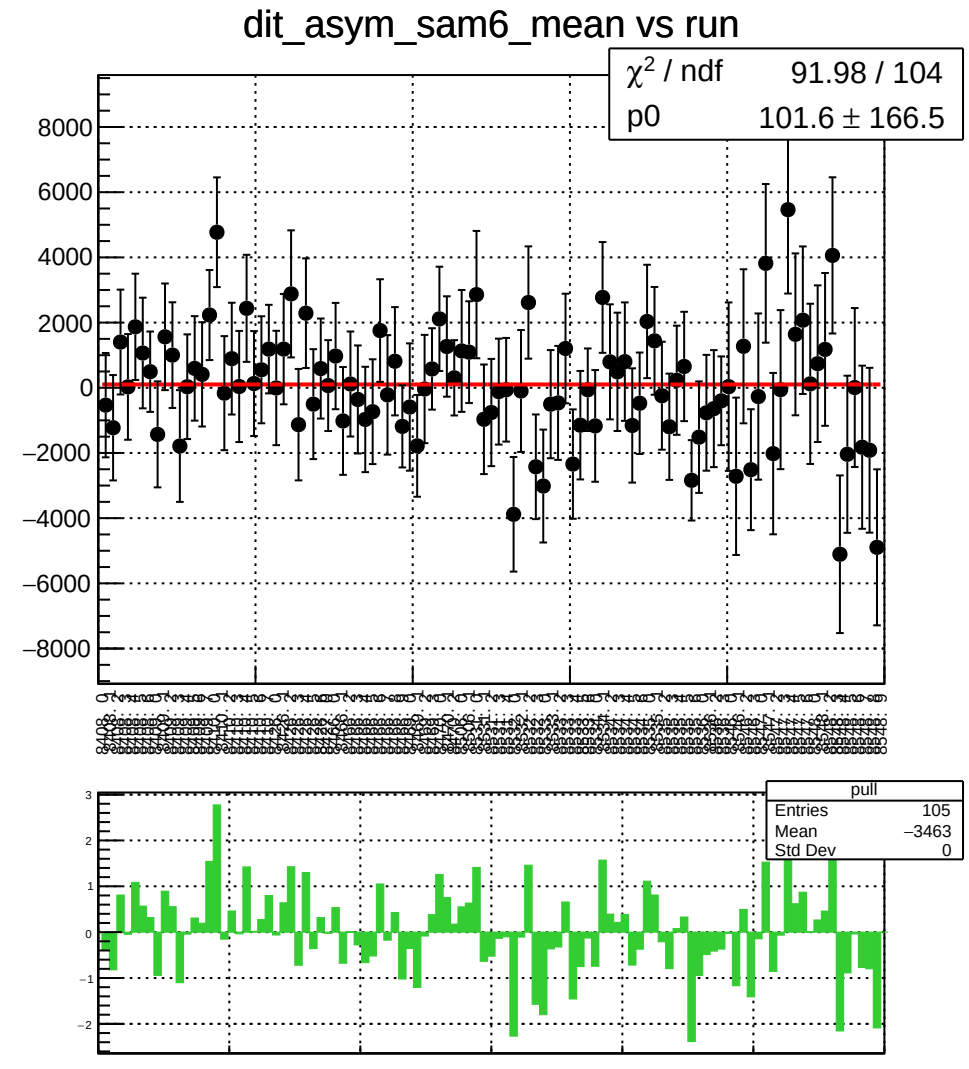

eigen_cor_asym_sam6_mean vs run
χ² / ndf 100.4 / 104
p0 127.7 ± 148.5
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 105
Mean −2680
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.002814
Std Dev 0.9781
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

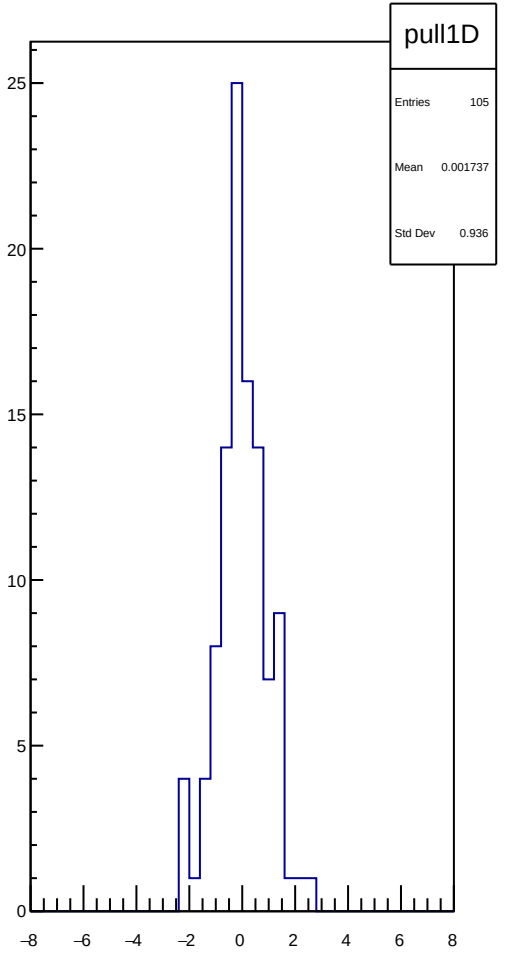

eigen_cor_asym_sam6_rms vs run
χ^2 / ndf 4.521e+04 / 104
p0 148.6 ± 0.105
220
200
180
160
140
120

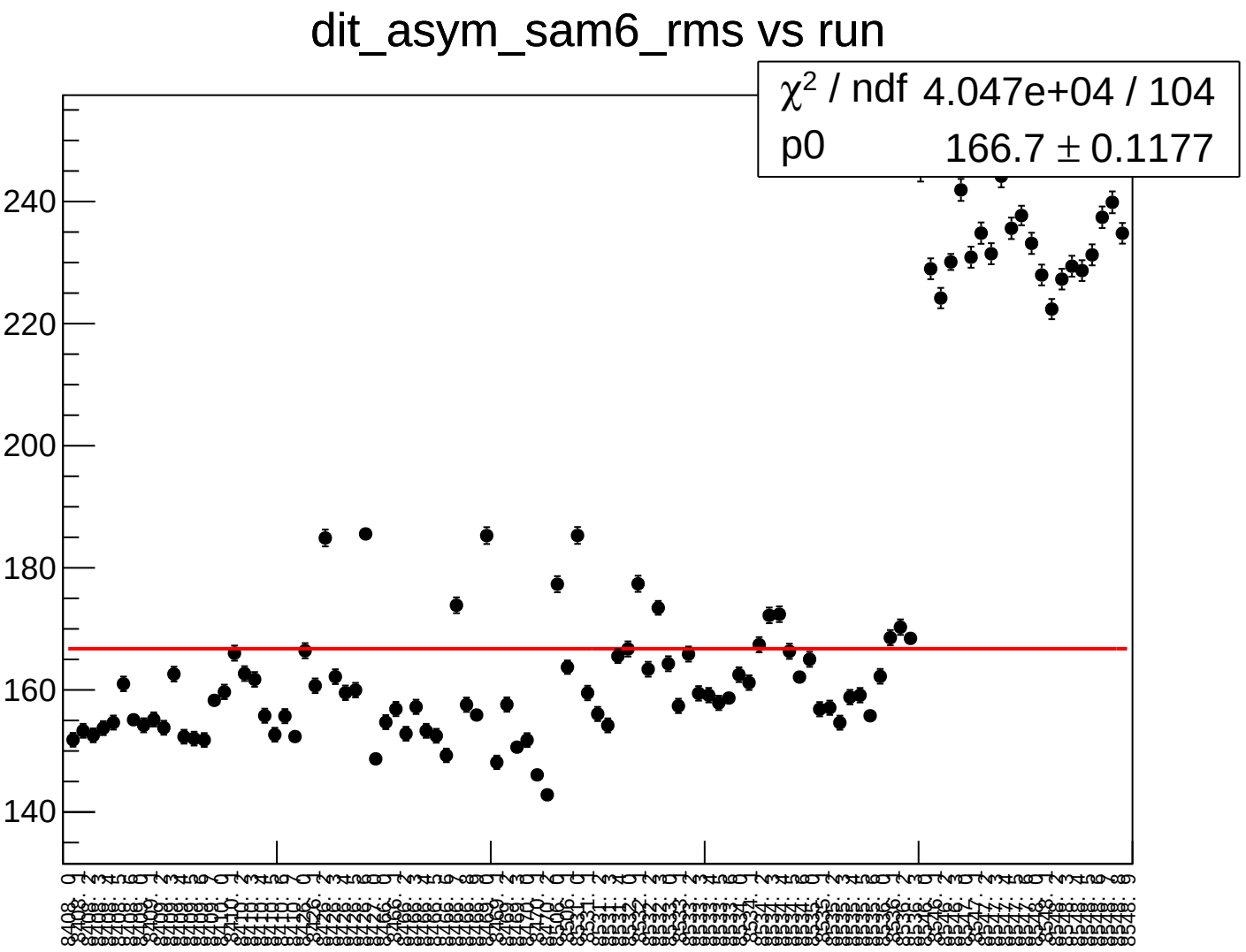

asym_sam6_eigen_cor_correction_mean vs run
χ² / ndf 105.2 / 104
p0 2451 ± 1554
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean 700.4
Std Dev 0
3
2
1
0
−1
−2

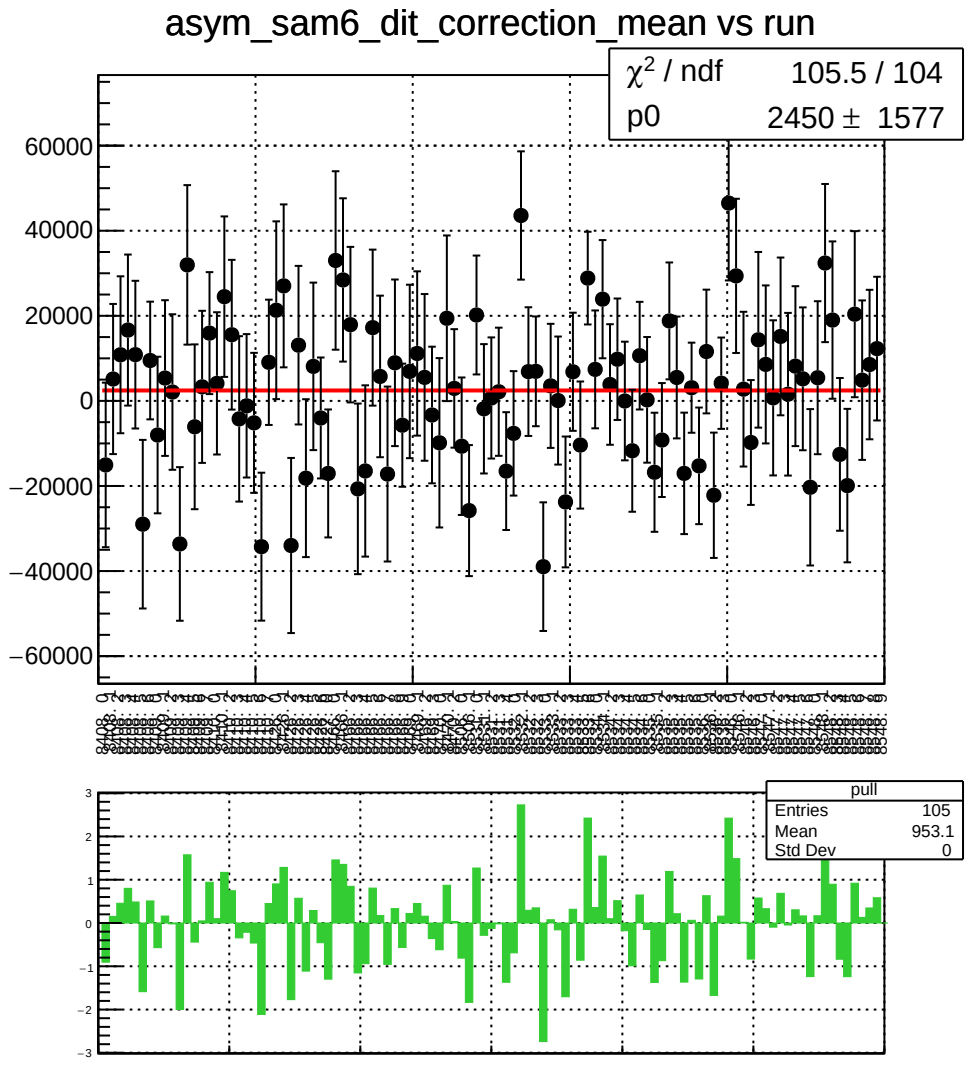

pull1D
Entries 105
Mean 0.002501
Std Dev 1.001
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

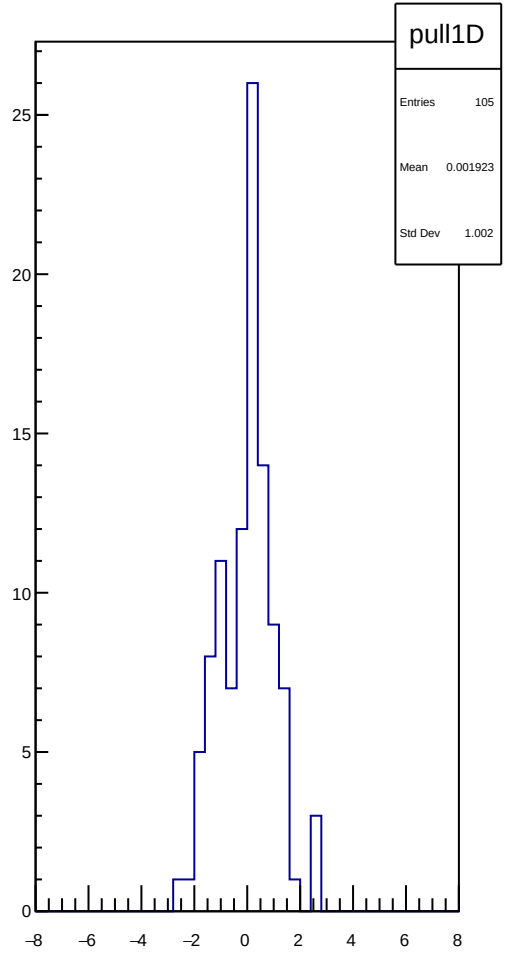

asym_sam6_eigen_cor_correction_rms vs run
χ^2 / ndf 3.79e+04 / 104
p0 1557 ± 1.099
2000
1900
1800
1700
1600
1500
1400
1300
1200

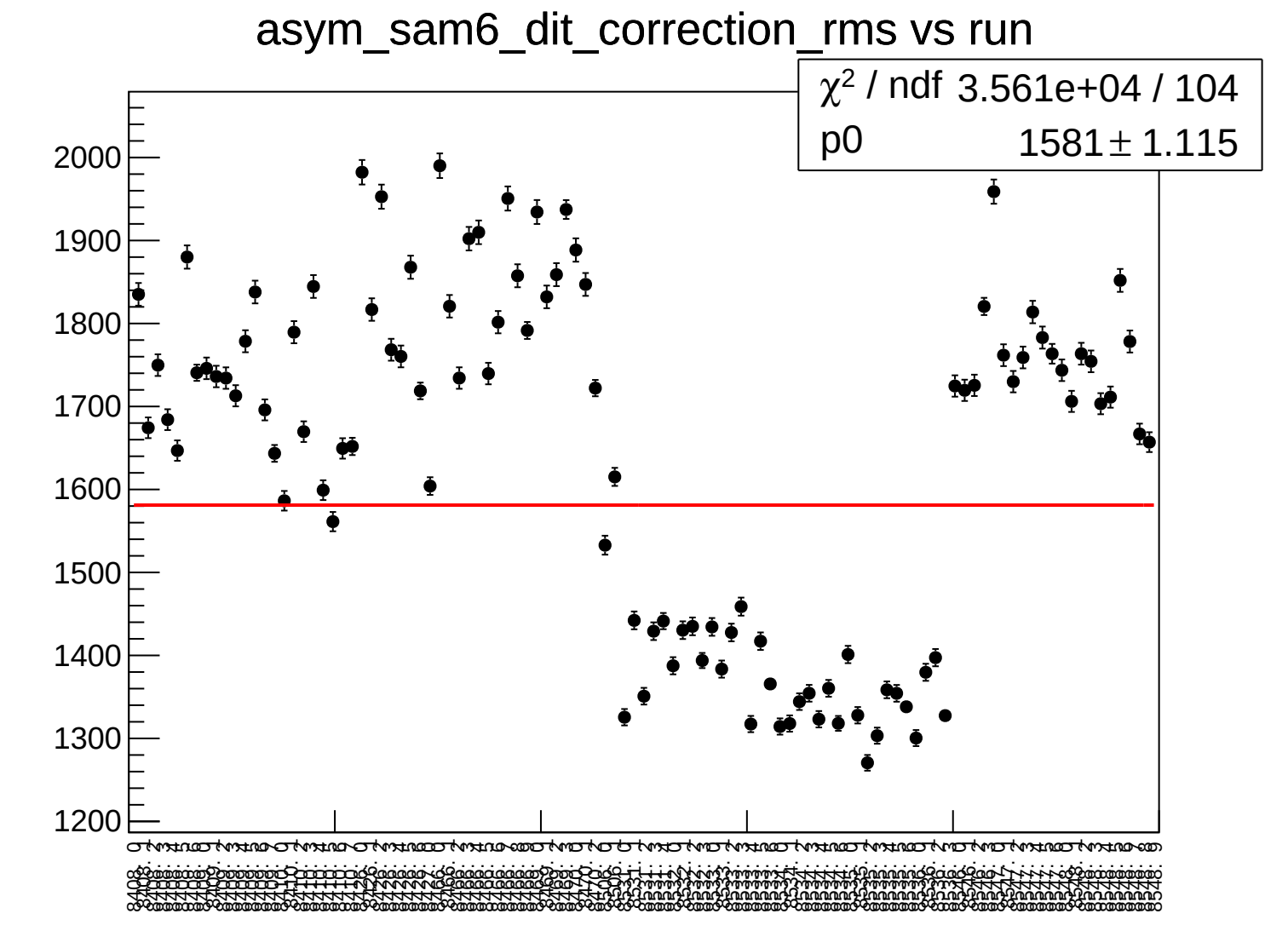

dit_asym_sam6_mean vs run
χ² / ndf 91.98 / 104
p0 101.6 ± 166.5
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 105
Mean −3463
Std Dev 0
3
2
1
0
−1
−2

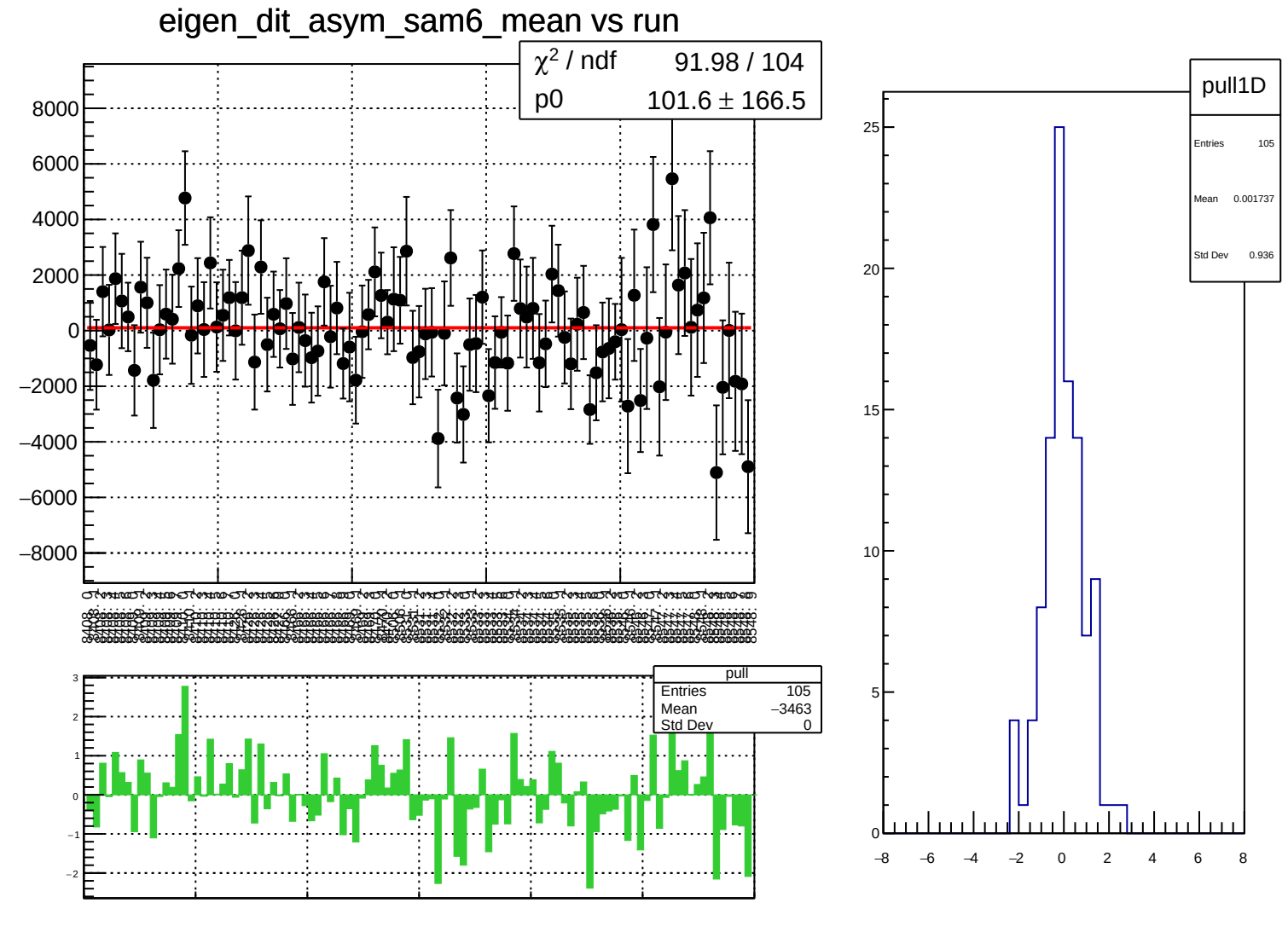

pull1D
Entries 105
Mean 0.001737
Std Dev 0.936
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

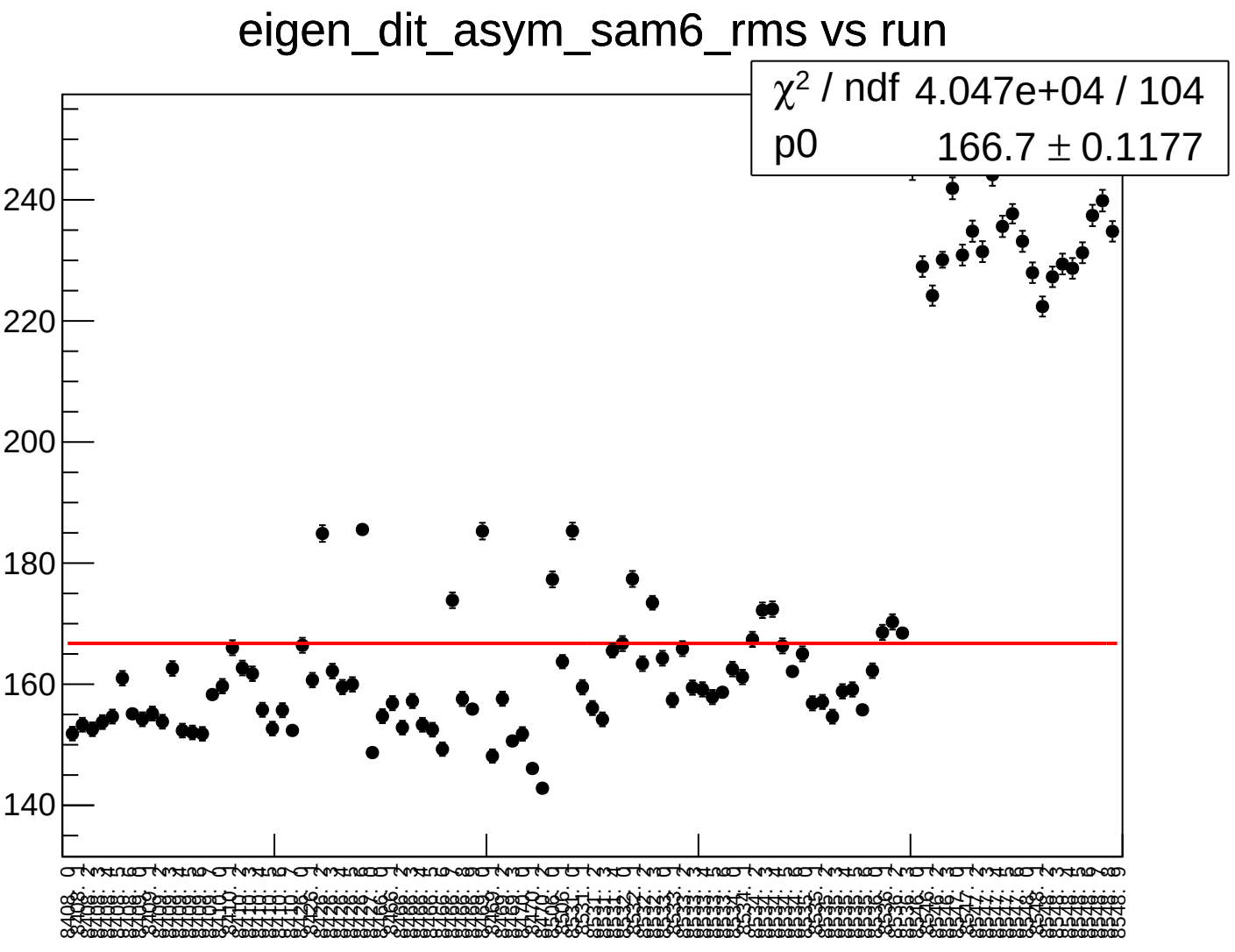

dit_asym_sam6_rms vs run
χ² / ndf 4.047e+04 / 104
p0 166.7 ± 0.1177
240
220
200
180
160
140

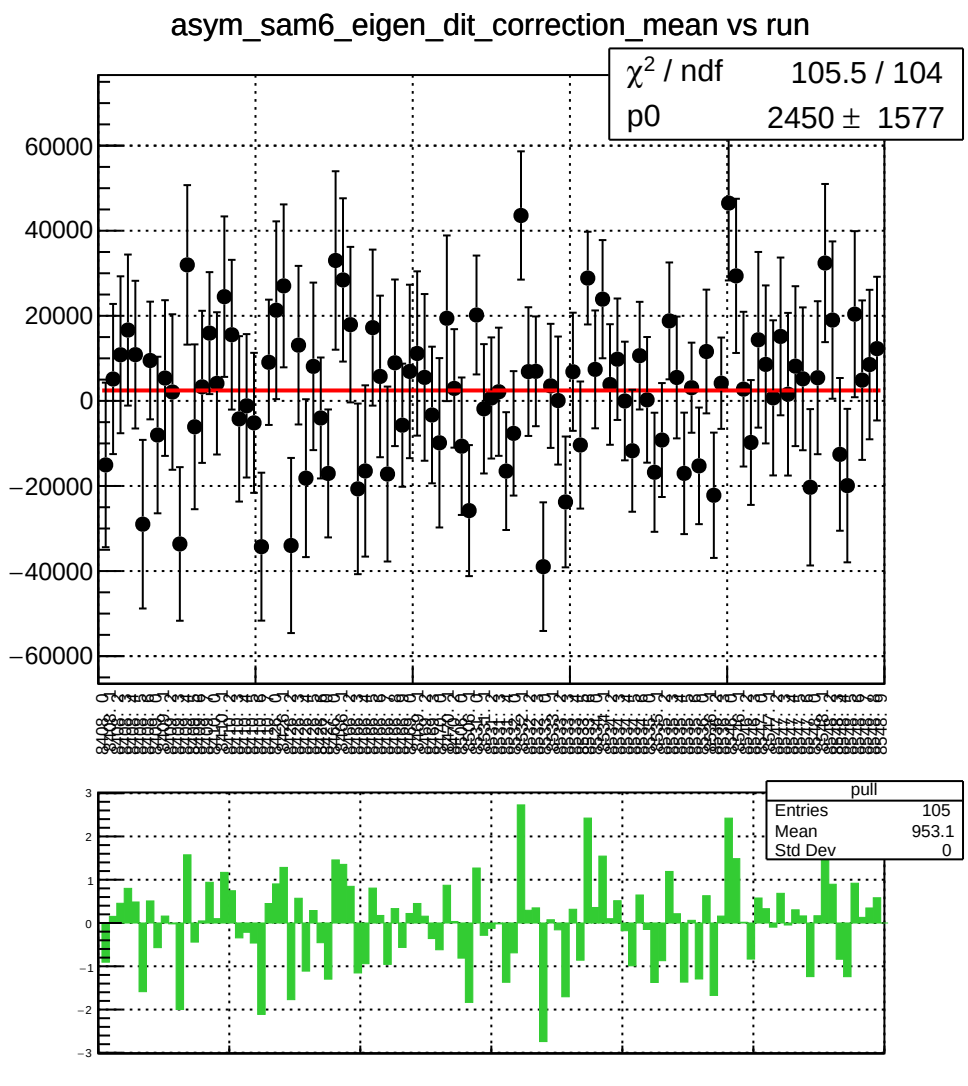

asym_sam6_dit_correction_mean vs run
χ² / ndf 105.5 / 104
p0 2450 ± 1577
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean 953.1
Std Dev 0
3
2
1
0
−1
−2
−3

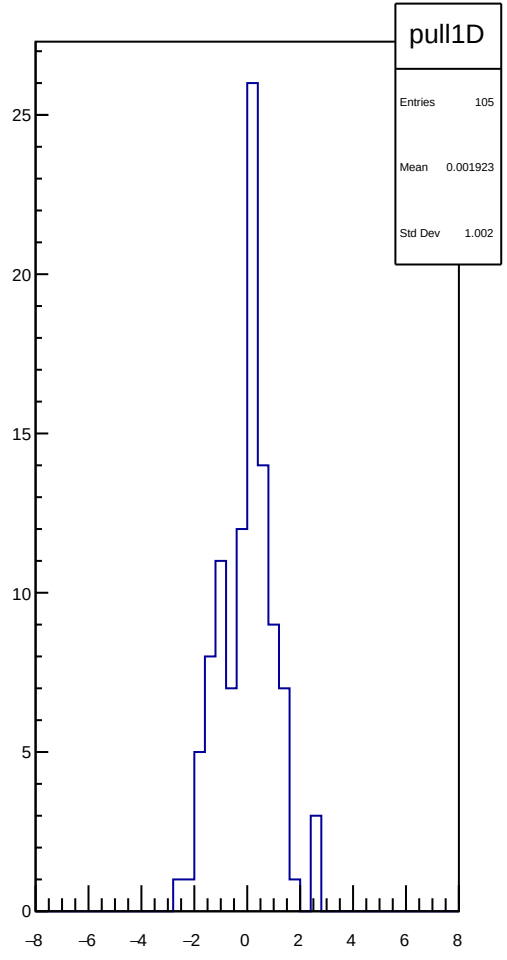

pull1D
Entries 105
Mean 0.001923
Std Dev 1.002
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

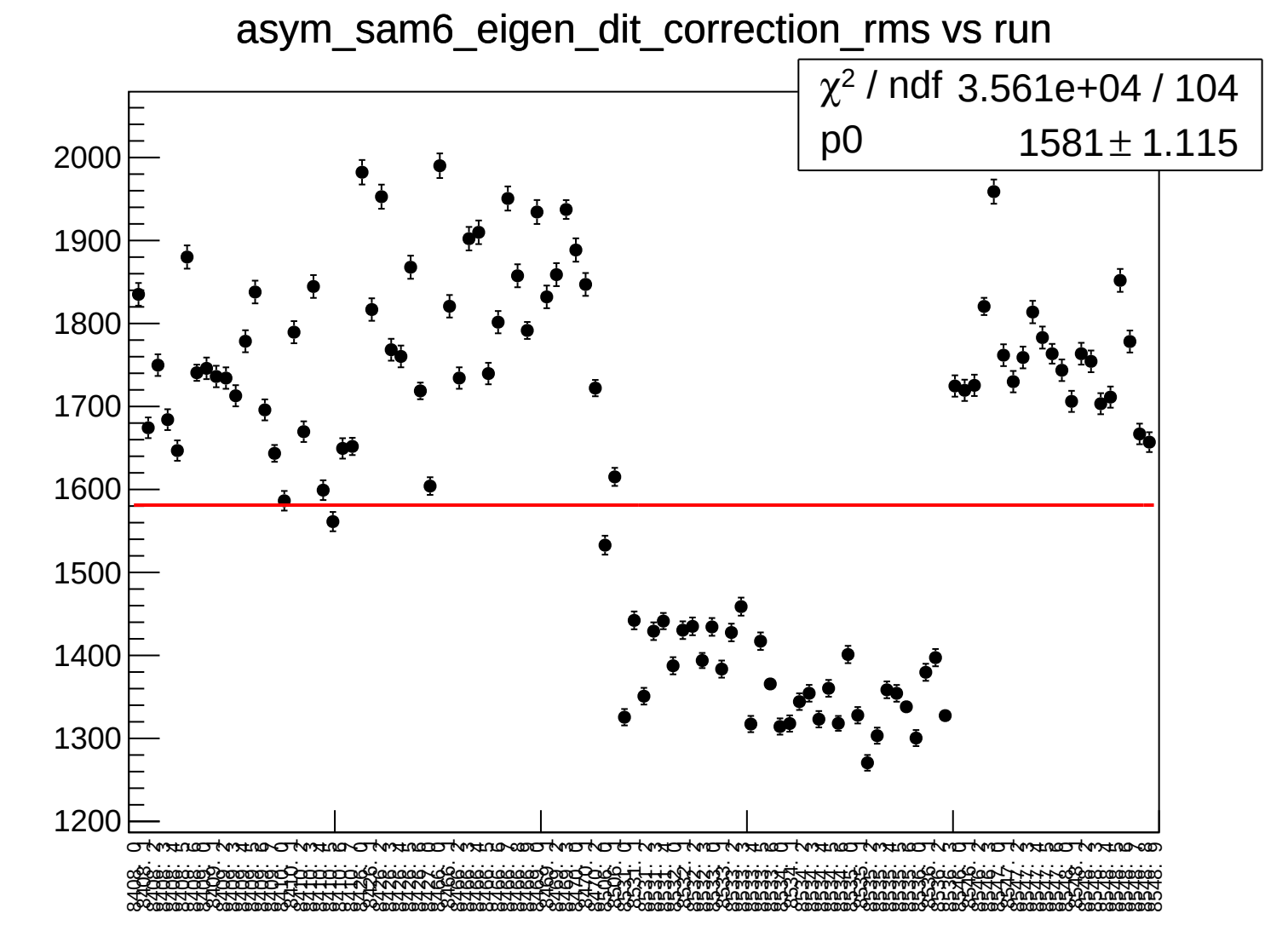

asym_sam6_dit_correction_rms vs run
χ² / ndf 3.561e+04 / 104
p0 1581 ± 1.115
2000
1900
1800
1700
1600
1500
1400
1300
1200

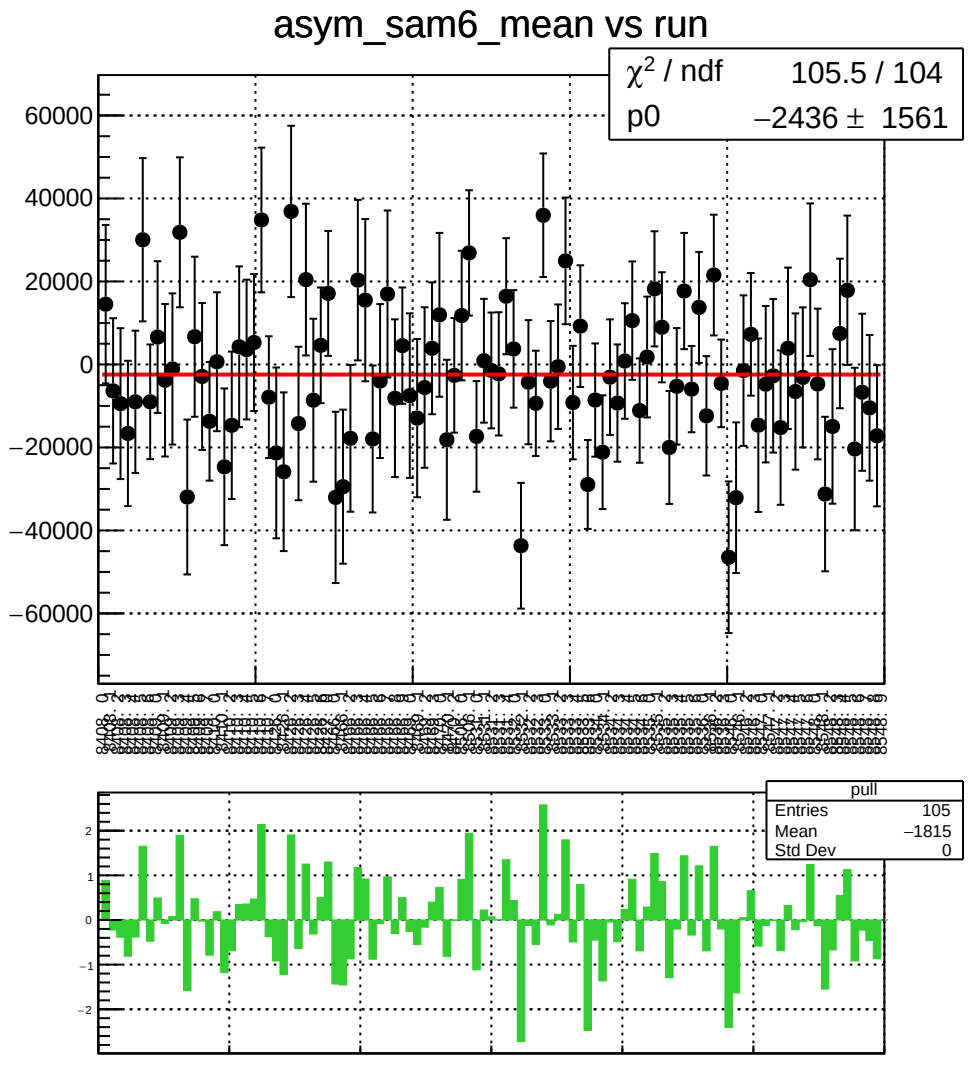

eigen_dit_asym_sam6_mean vs run
χ² / ndf 91.98 / 104
p0 101.6 ± 166.5
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 105
Mean −3463
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.001737
Std Dev 0.936
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

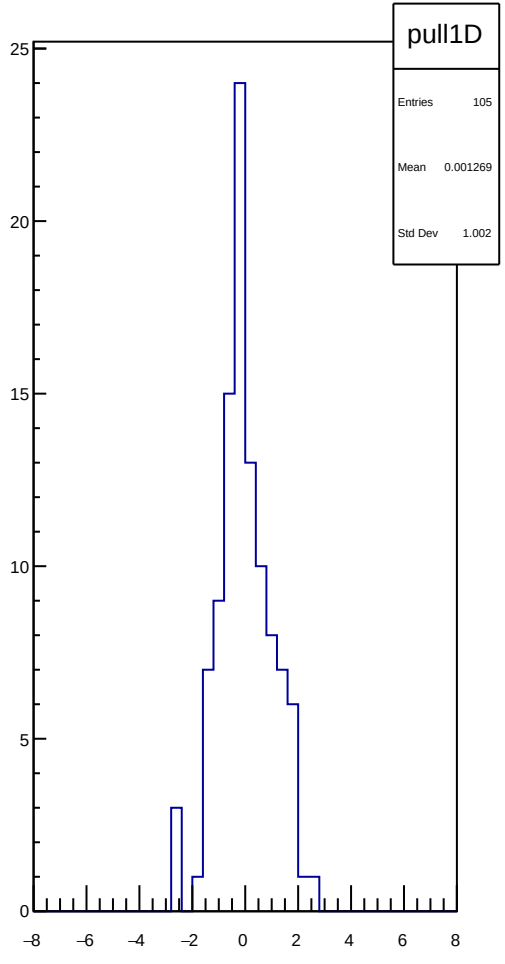

eigen_dit_asym_sam6_rms vs run
χ² / ndf 4.047e+04 / 104
p0 166.7 ± 0.1177
240
220
200
180
160
140

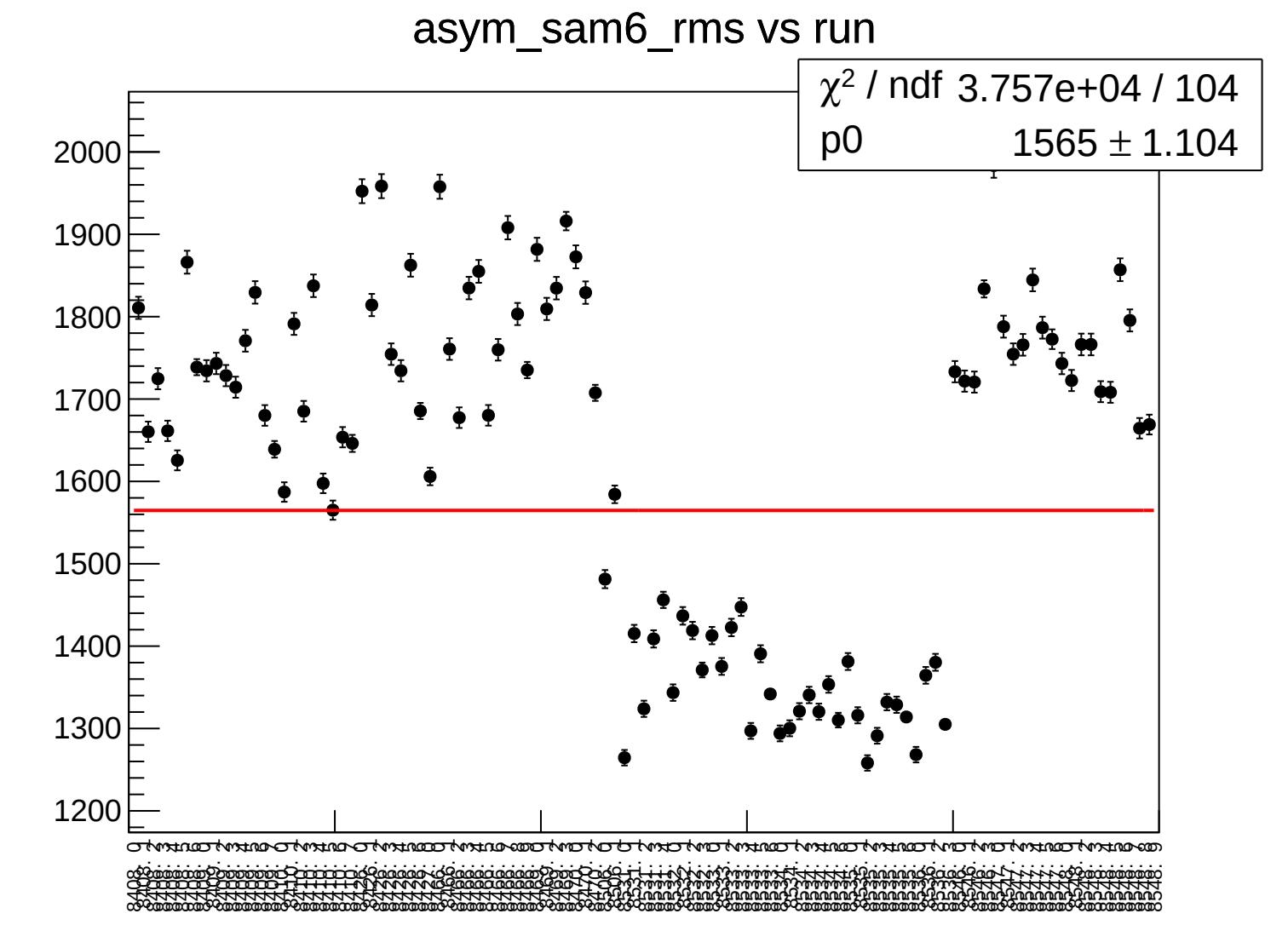

asym_sam6_eigen_dit_correction_mean vs run
χ² / ndf 105.5 / 104
p0 2450 ± 1577
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean 953.1
Std Dev 0
3
2
1
0
−1
−2
−3

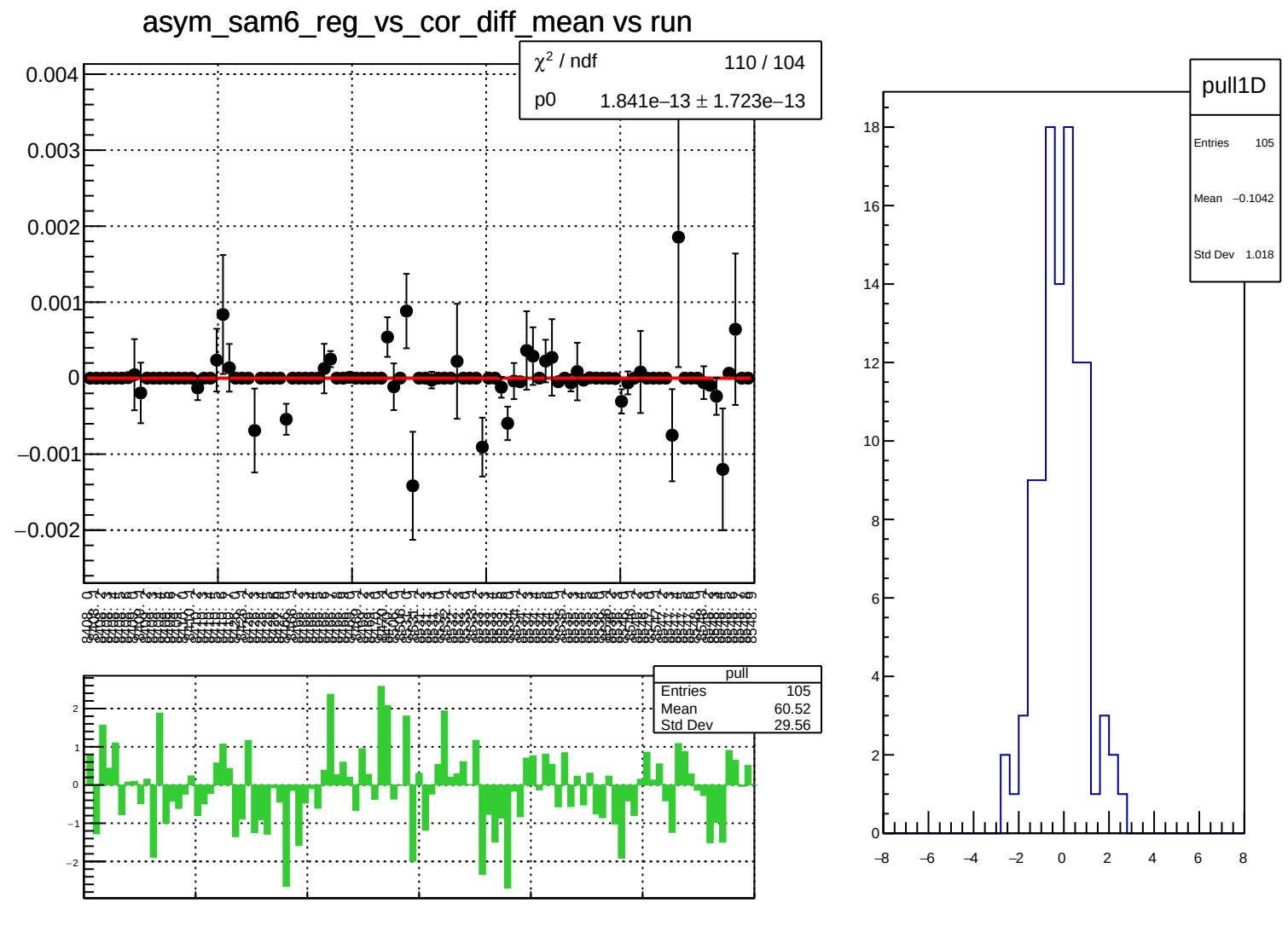

pull1D
Entries 105
Mean 0.001923
Std Dev 1.002
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

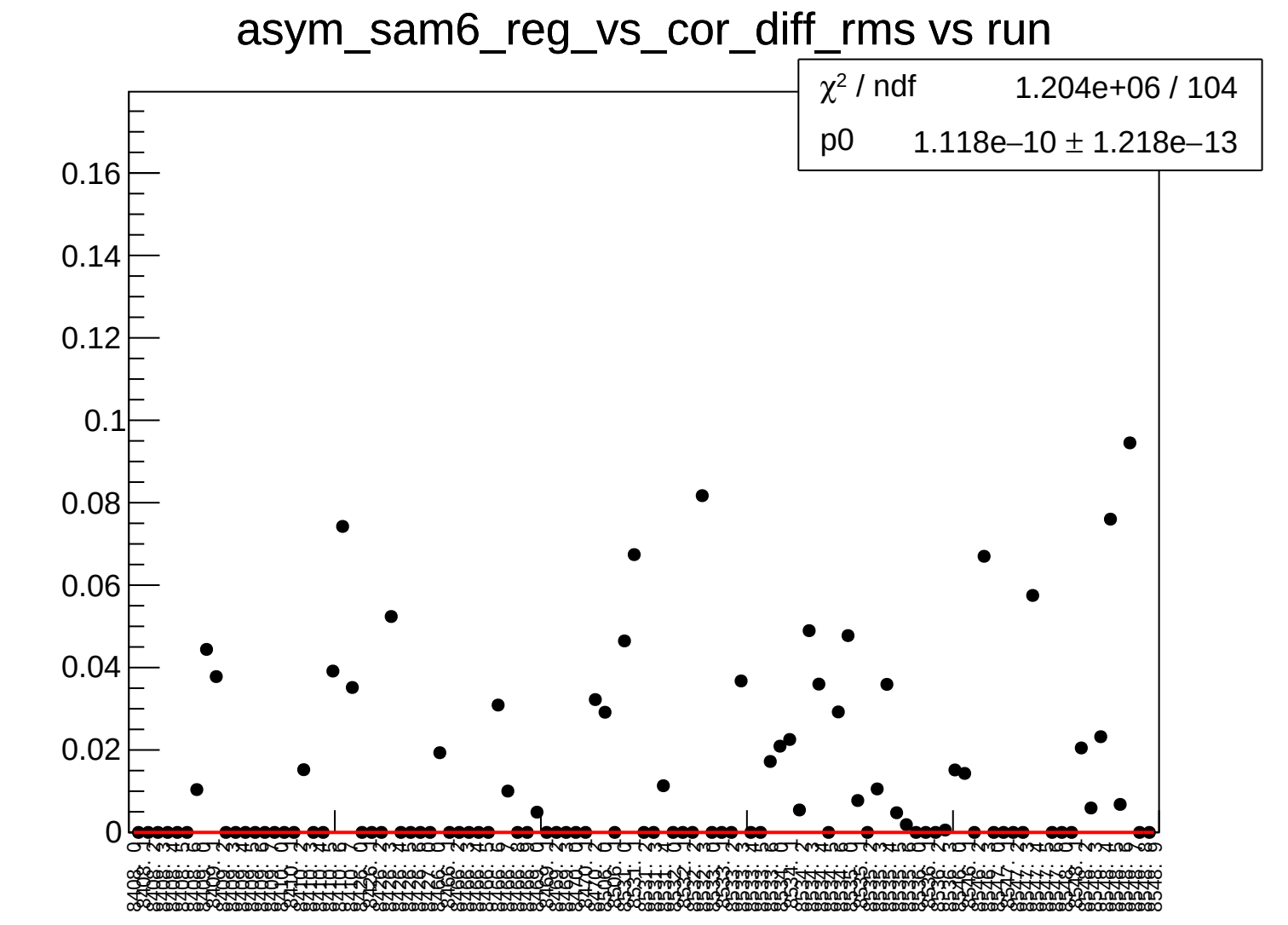

asym_sam6_eigen_dit_correction_rms vs run
χ² / ndf 3.561e+04 / 104
p0 1581 ± 1.115
2000
1900
1800
1700
1600
1500
1400
1300
1200

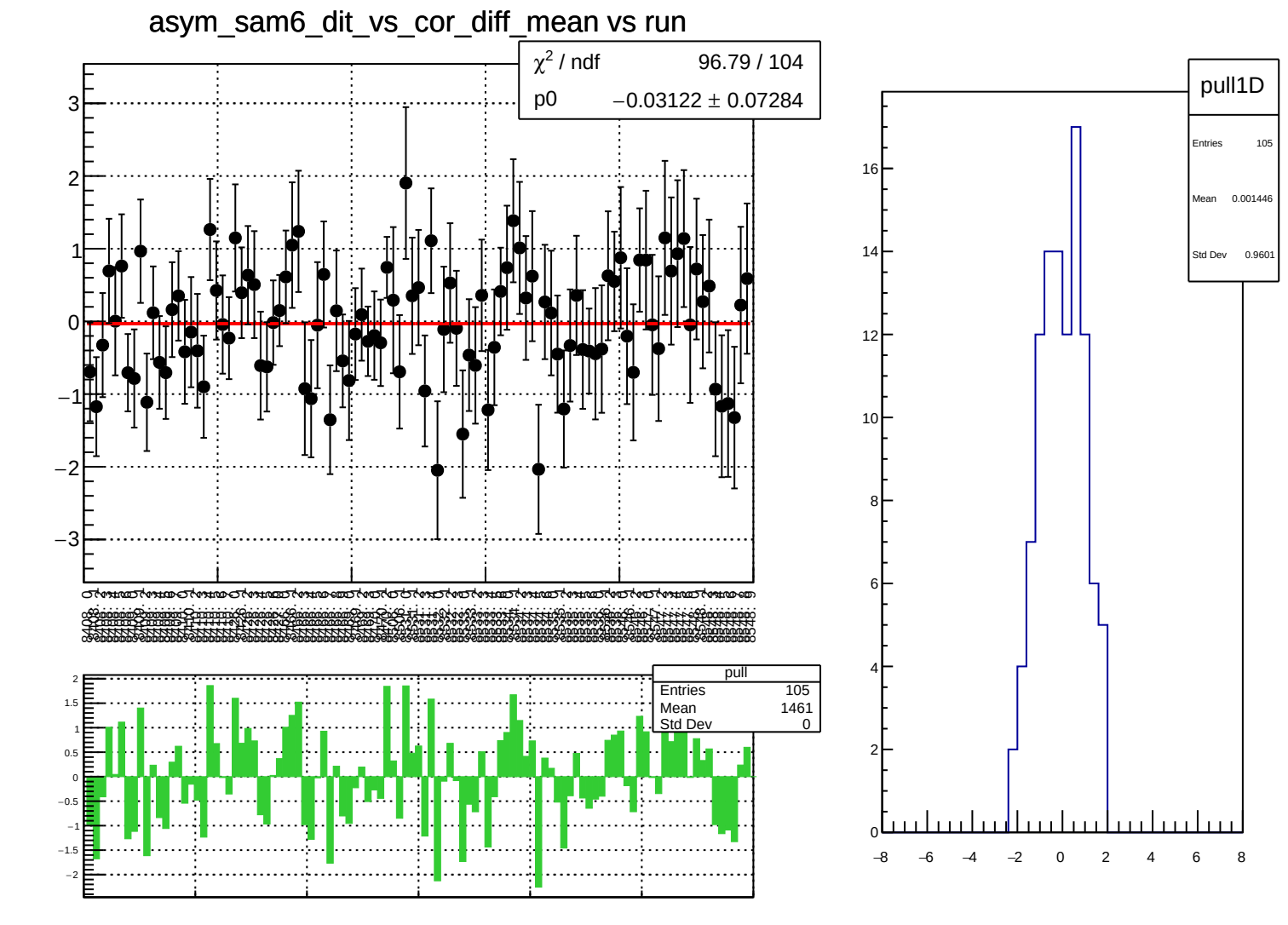

asym_sam6_mean vs run
χ² / ndf 105.5 / 104
p0 −2436 ± 1561
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean −1815
Std Dev 0
2
1
0
−1
−2

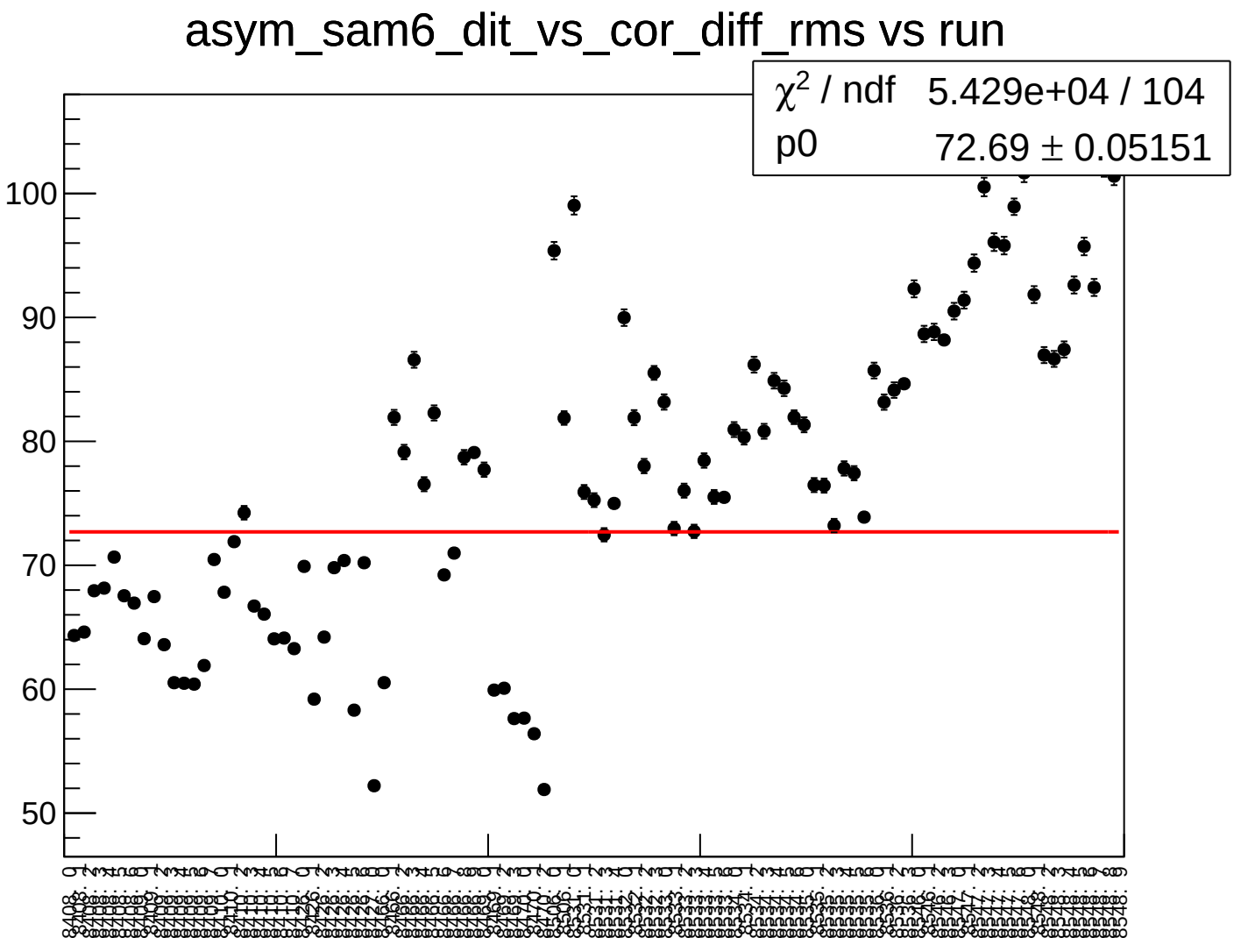

pull1D
Entries 105
Mean 0.001269
Std Dev 1.002
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

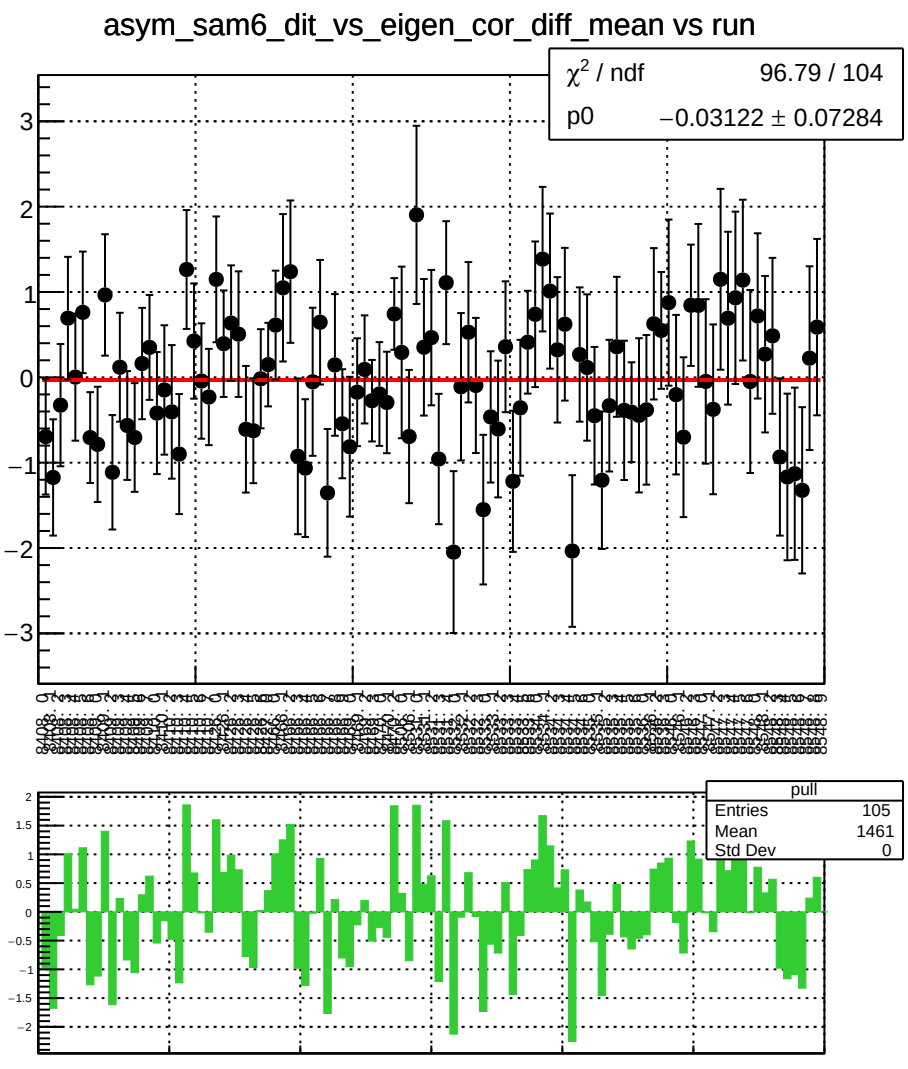

asym_sam6_rms vs run
χ² / ndf 3.757e+04 / 104
p0 1565 ± 1.104
2000
1900
1800
1700
1600
1500
1400
1300
1200

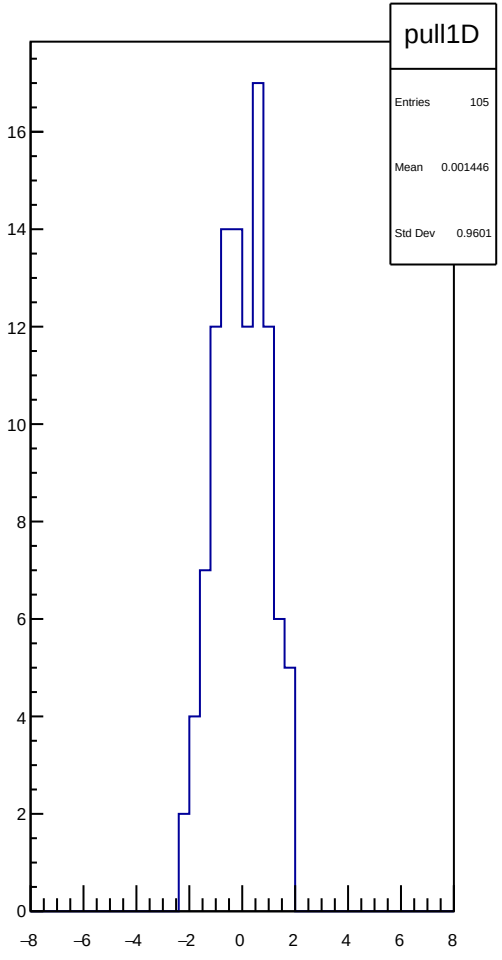

asym_sam6_reg_vs_cor_diff_mean vs run
χ² / ndf 110 / 104
p0 1.841e−13 ± 1.723e−13
0.004
0.003
0.002
0.001
0
−0.001
−0.002
pull
Entries 105
Mean 60.52
Std Dev 29.56
pull1D
Entries 105
Mean −0.1042
Std Dev 1.018

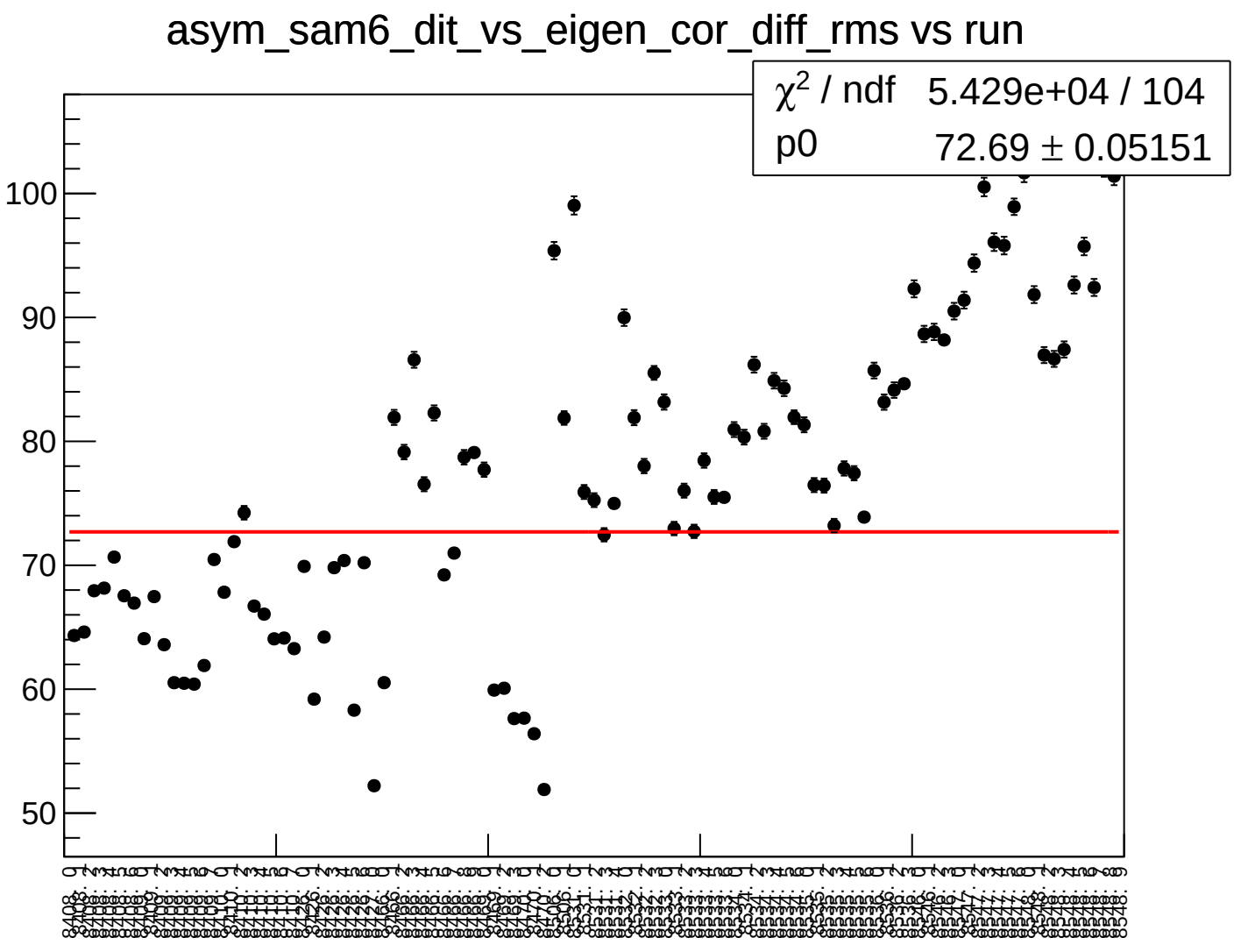

asym_sam6_reg_vs_cor_diff_rms vs run
χ² / ndf 1.204e+06 / 104
p0 1.118e−10 ± 1.218e−13
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

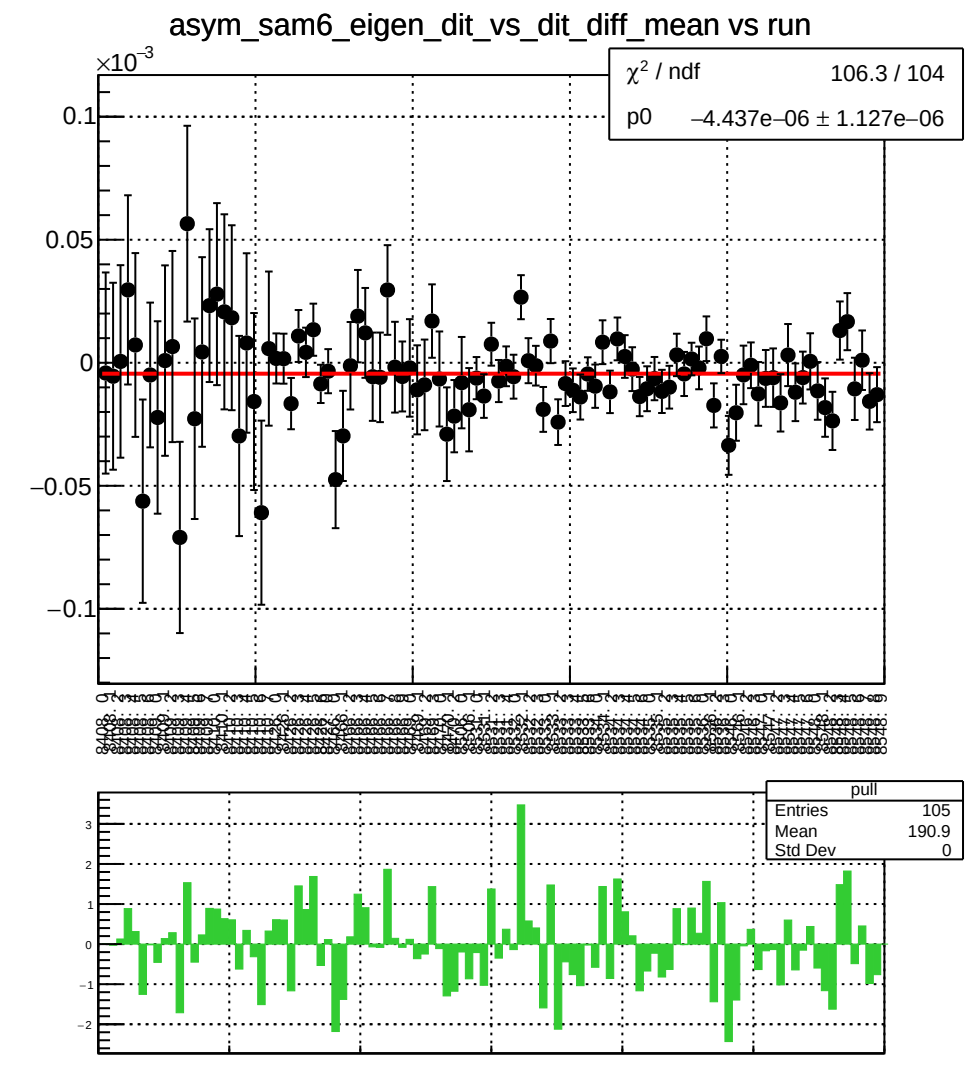

asym_sam6_dit_vs_cor_diff_mean vs run
χ² / ndf 96.79 / 104
p0 −0.03122 ± 0.07284
pull
Entries 105
Mean 1461
Std Dev 0
pull1D
Entries 105
Mean 0.001446
Std Dev 0.9601

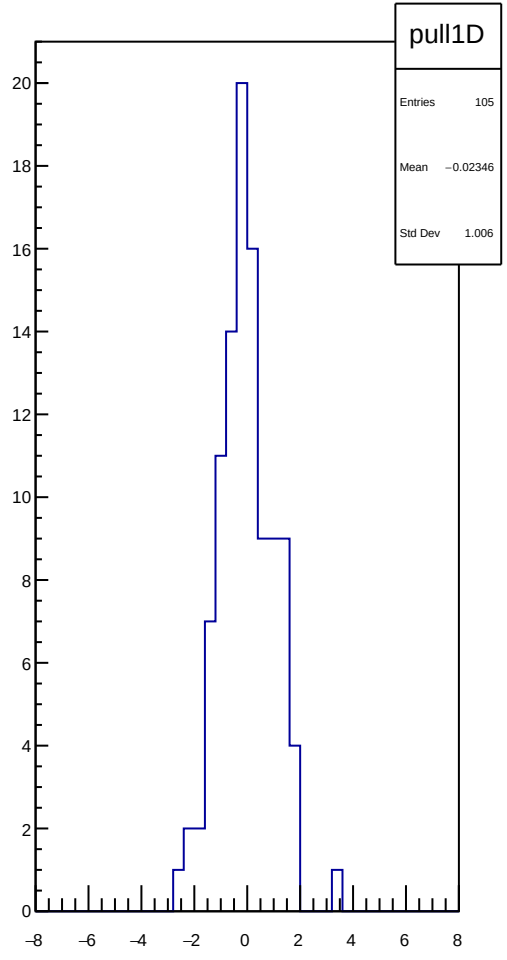

asym_sam6_dit_vs_cor_diff_rms vs run
χ^2 / ndf 5.429e+04 / 104
p0 72.69 ± 0.05151
100
90
80
70
60
50

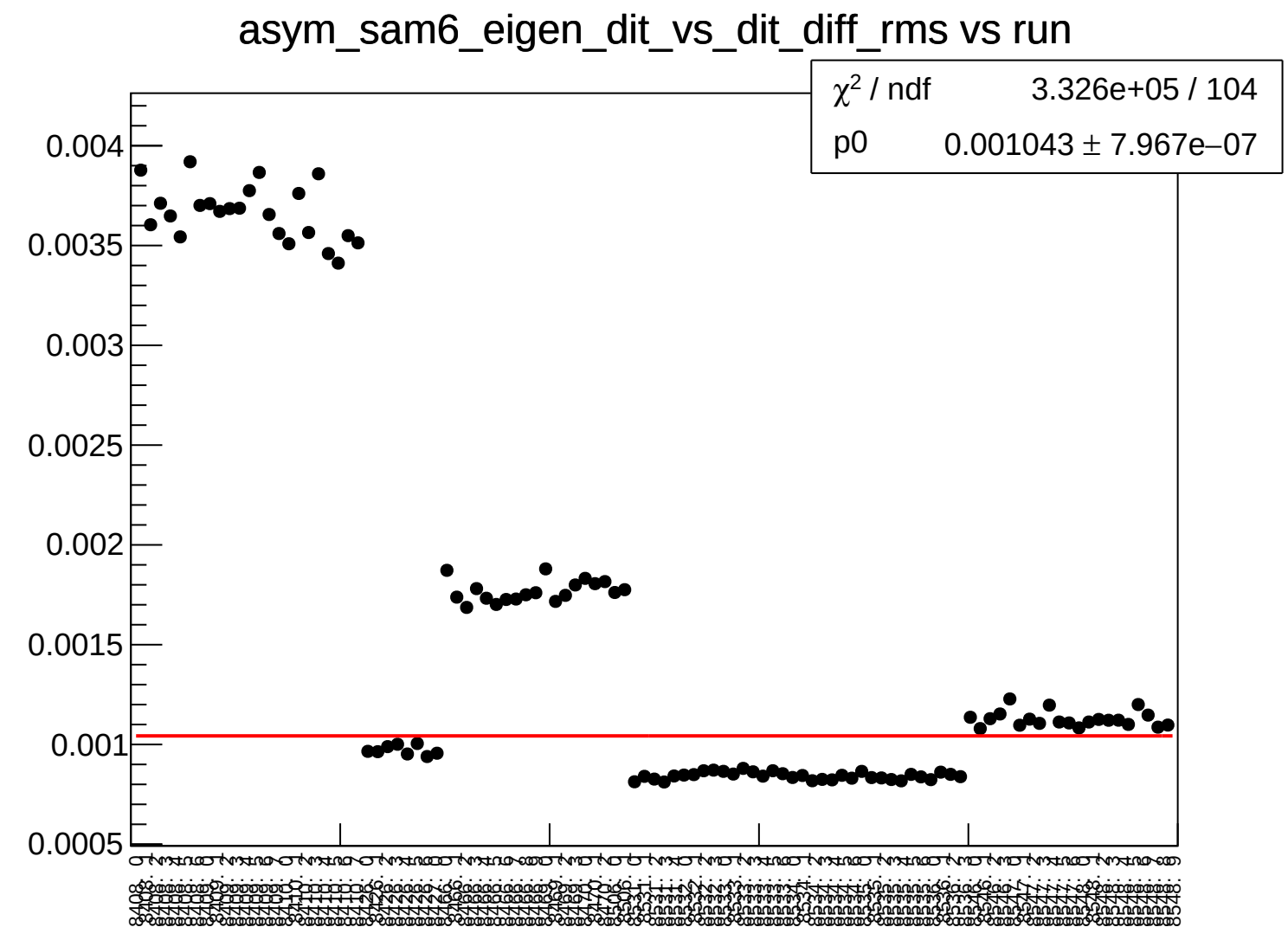

asym_sam6_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.79 / 104
p0 −0.03122 ± 0.07284
pull
Entries 105
Mean 1461
Std Dev 0

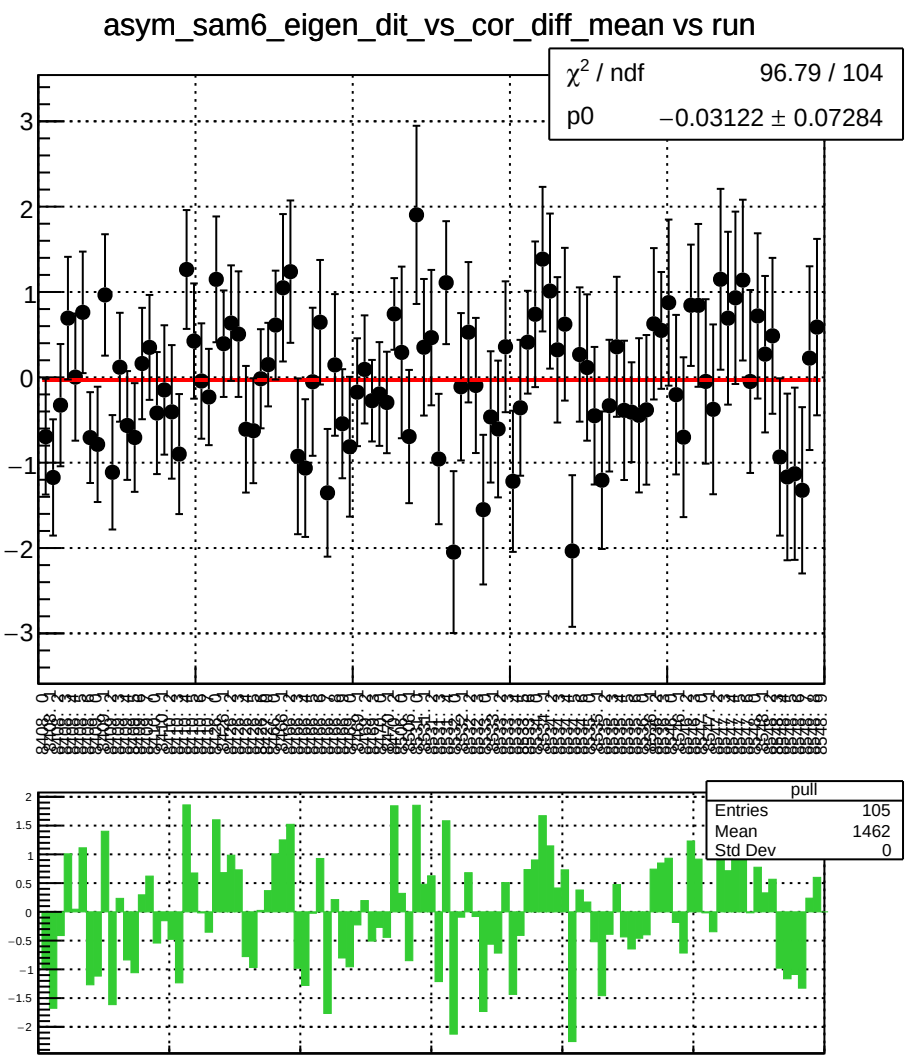

pull1D
Entries 105
Mean 0.001446
Std Dev 0.9601

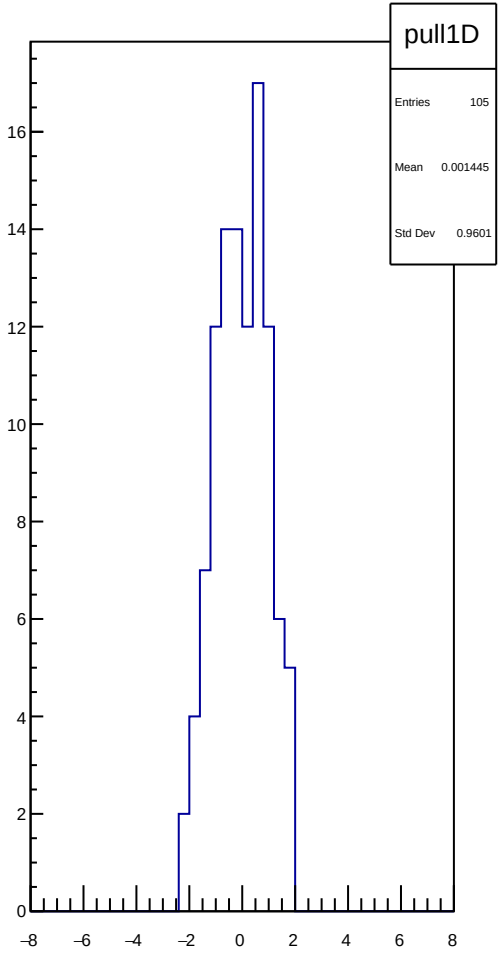

asym_sam6_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 5.429e+04 / 104
p0 72.69 ± 0.05151
100
90
80
70
60
50

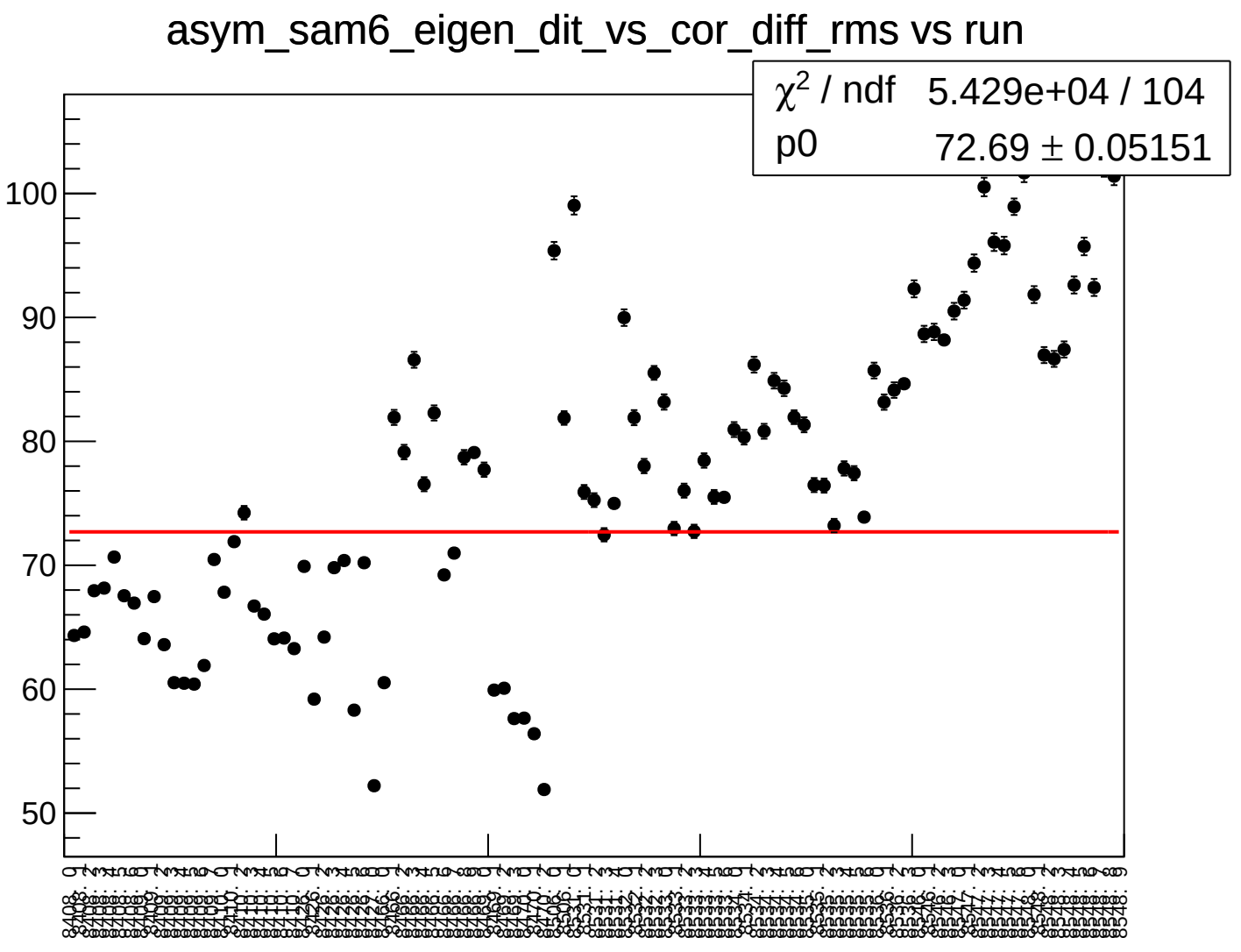

asym_sam6_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 106.3 / 104
p0 −4.437e−06 ± 1.127e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 105
Mean 190.9
Std Dev 0
3
2
1
0
−1
−2

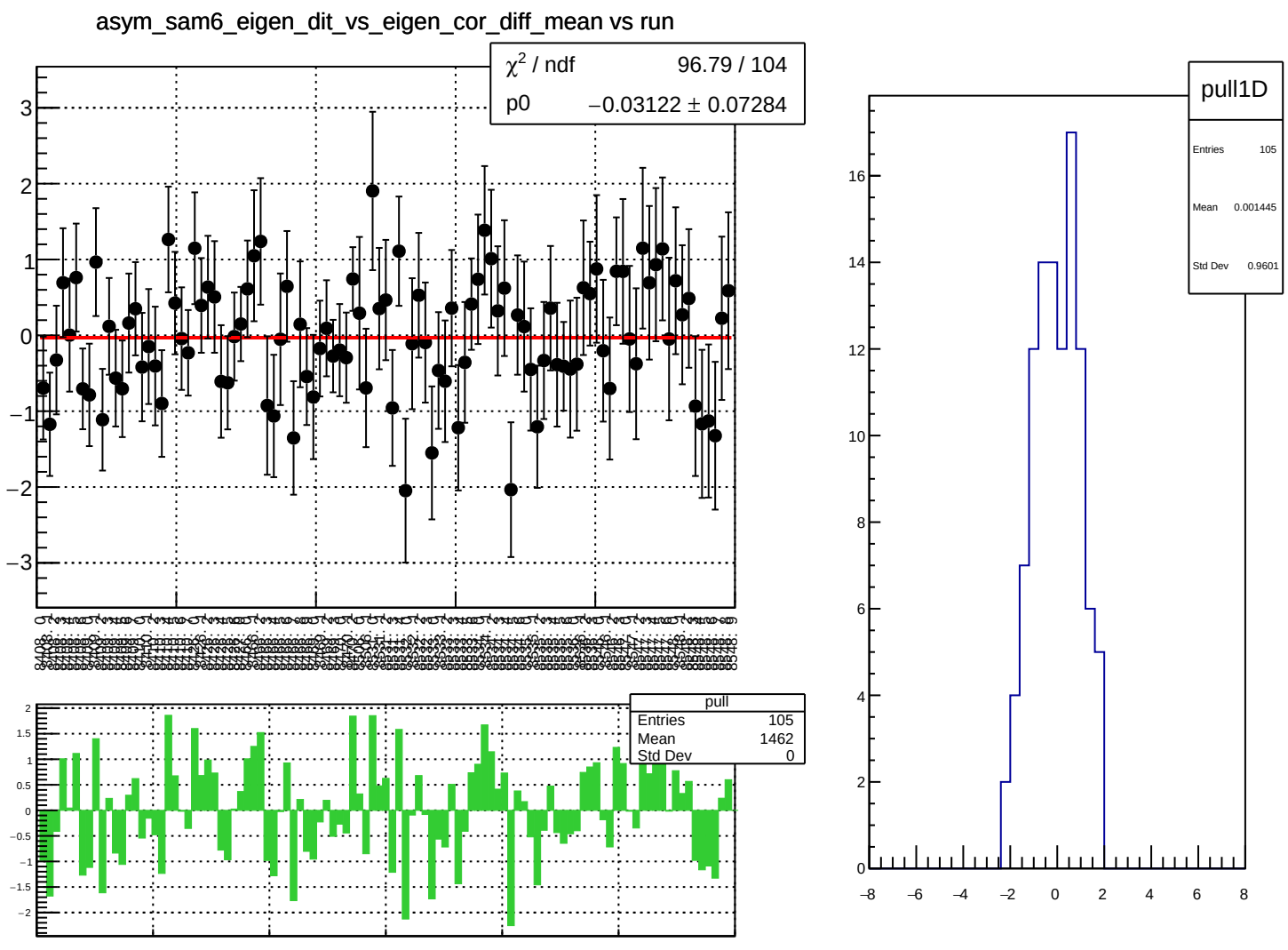

pull1D
Entries 105
Mean −0.02346
Std Dev 1.006
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

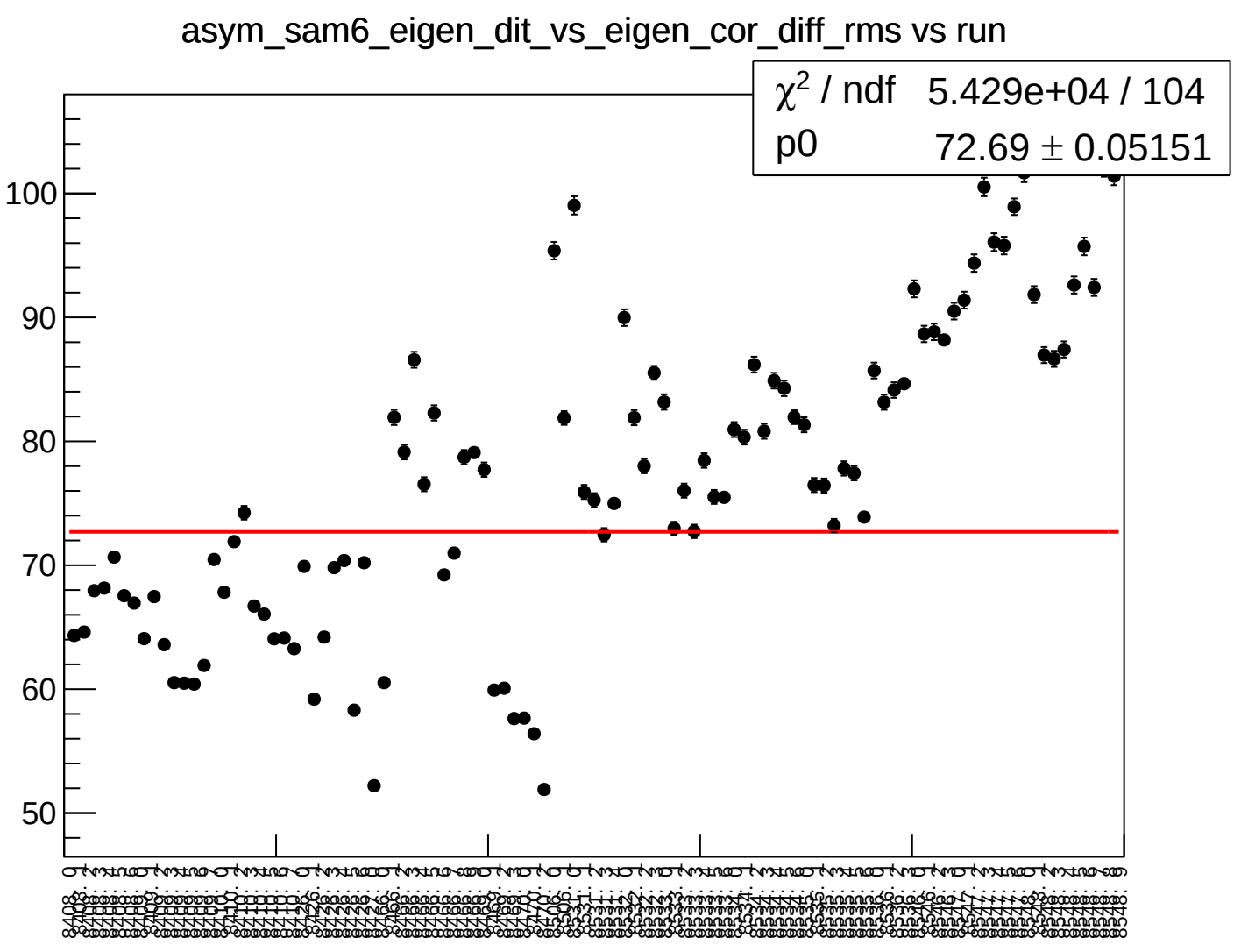

asym_sam6_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.326e+05 / 104
p0 0.001043 ± 7.967e−07
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005

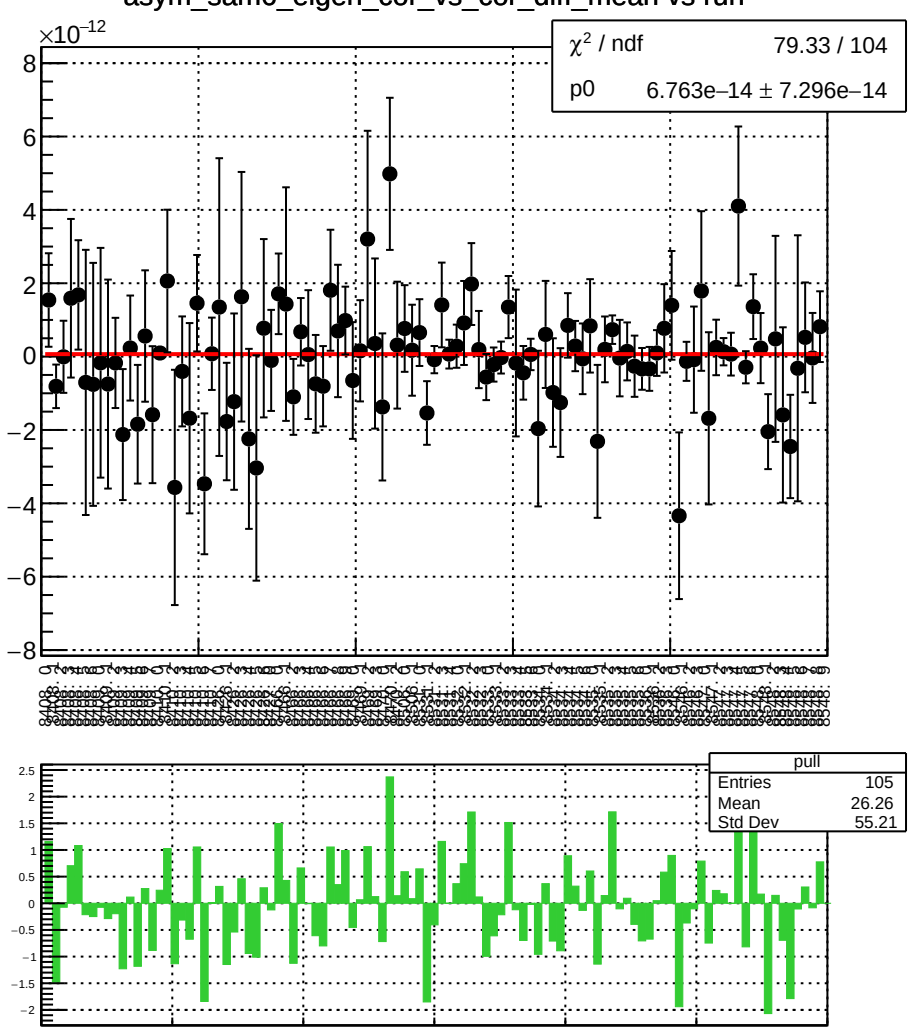

asym_sam6_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 96.79 / 104
p0 −0.03122 ± 0.07284
pull
Entries 105
Mean 1462
Std Dev 0

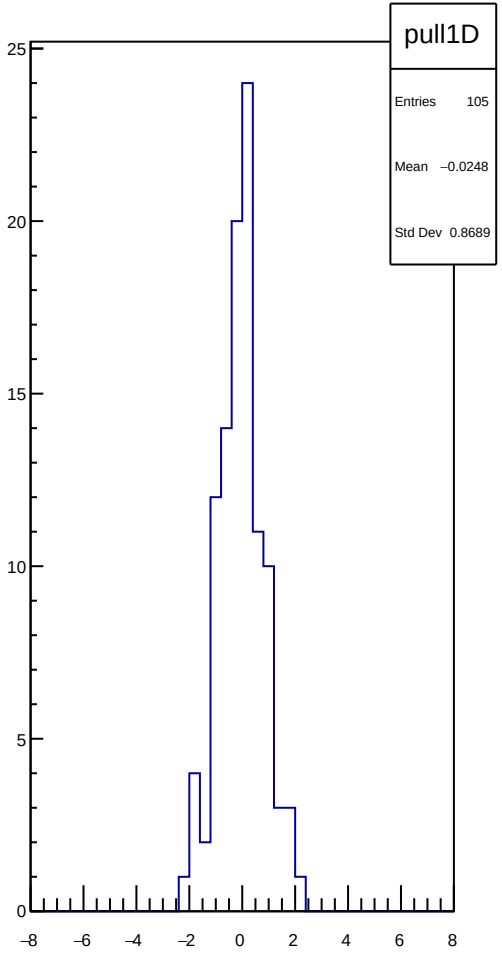

pull1D
Entries 105
Mean 0.001445
Std Dev 0.9601

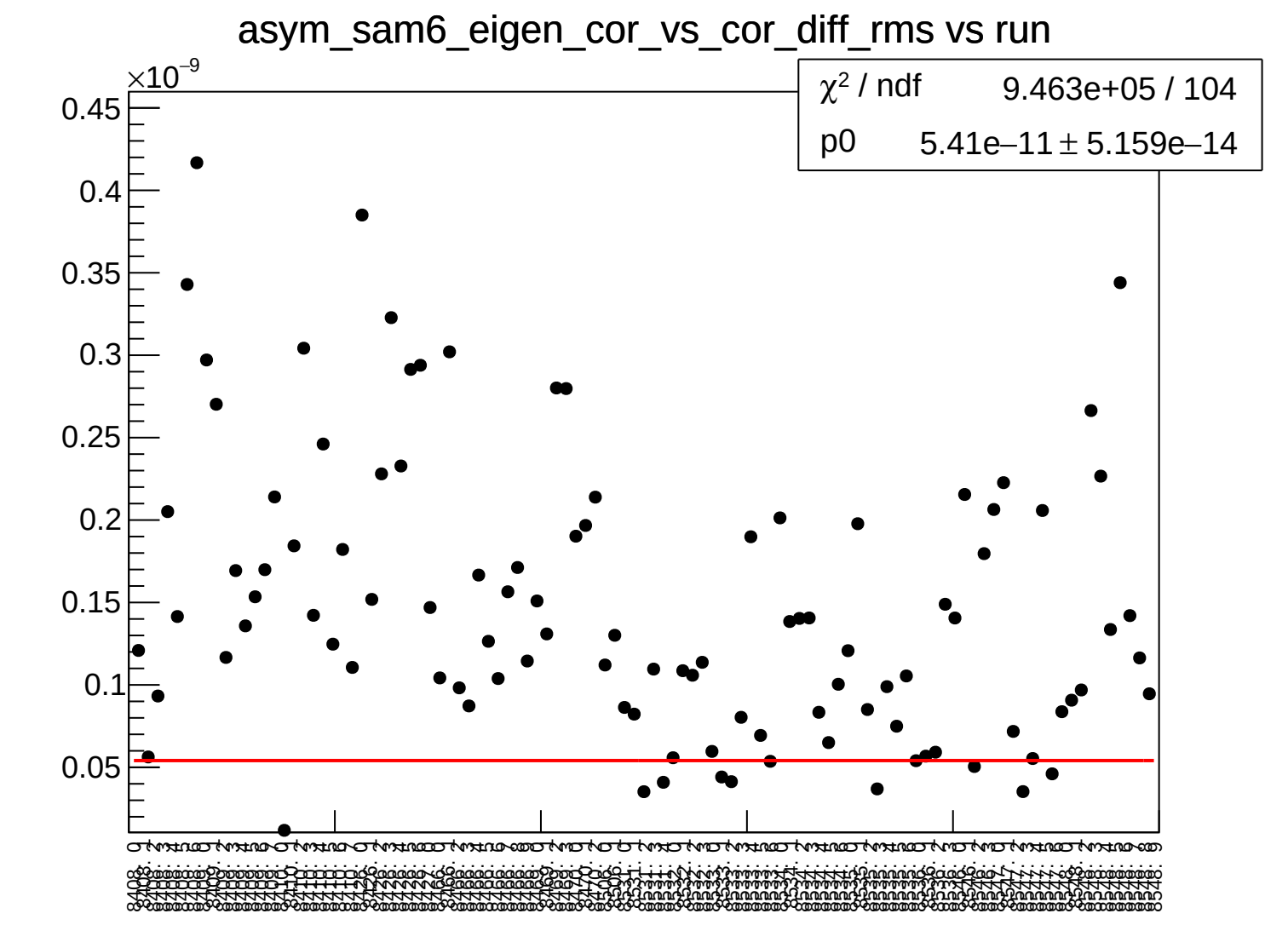

asym_sam6_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 5.429e+04 / 104
p0 72.69 ± 0.05151
100
90
80
70
60
50

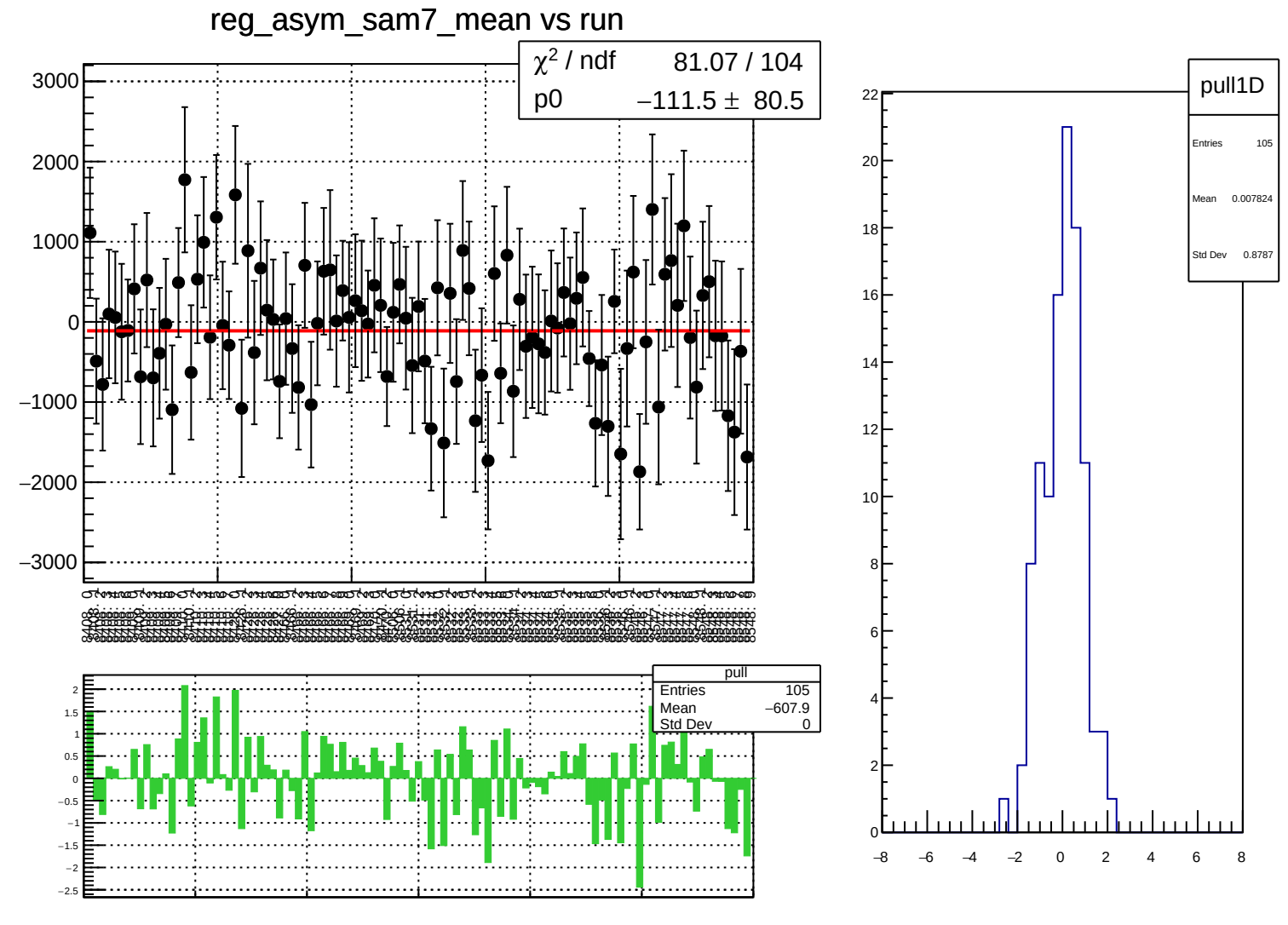

asym_sam6_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 96.79 / 104
p0 −0.03122 ± 0.07284
pull
Entries 105
Mean 1462
Std Dev 0
pull1D
Entries 105
Mean 0.001445
Std Dev 0.9601

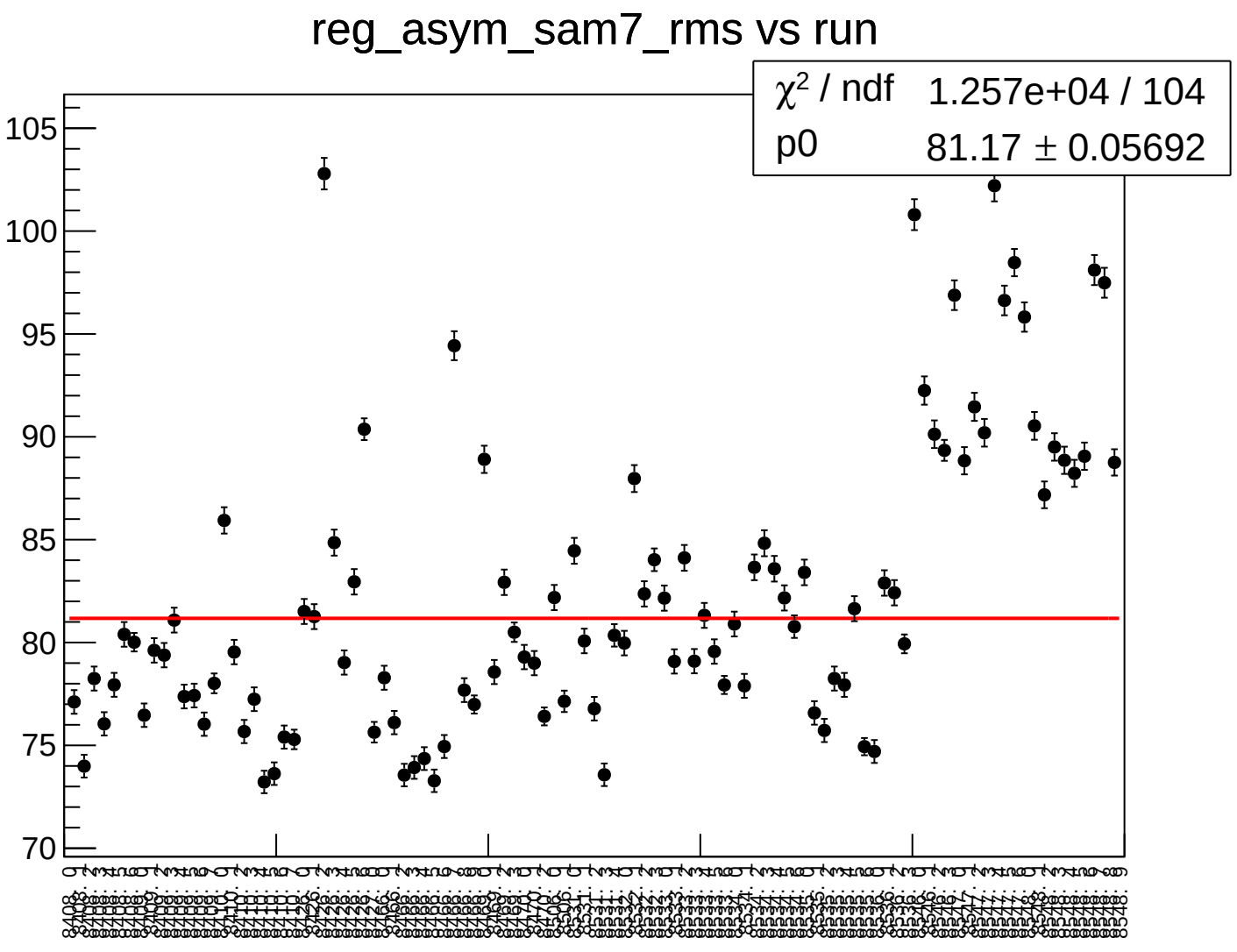

asym_sam6_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.429e+04 / 104
p0 72.69 ± 0.05151
100
90
80
70
60
50

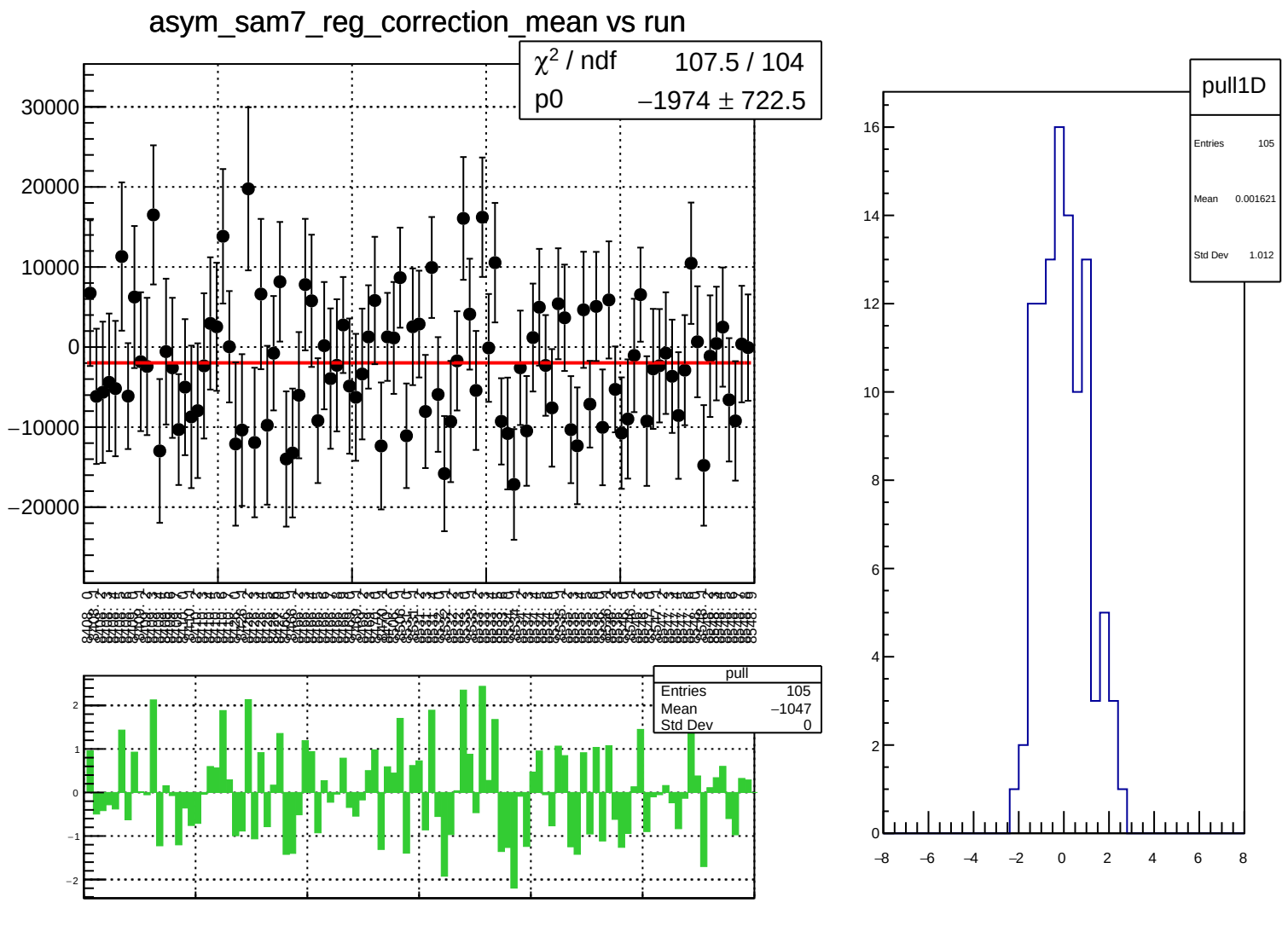

asym_sam6_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 79.33 / 104
p0 6.763e−14 ± 7.296e−14
pull
Entries 105
Mean 26.26
Std Dev 55.21

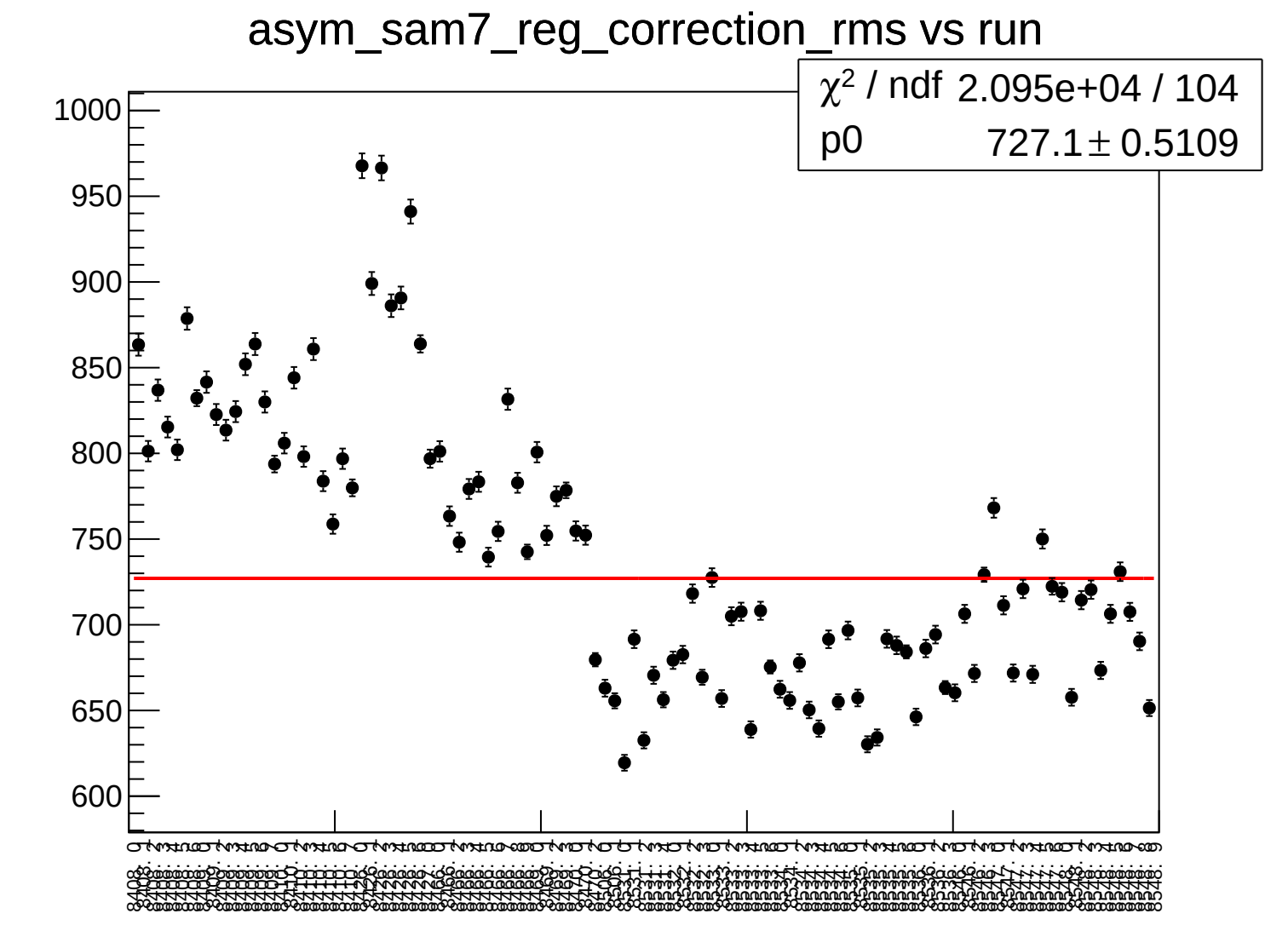

pull1D
Entries 105
Mean −0.0248
Std Dev 0.8689

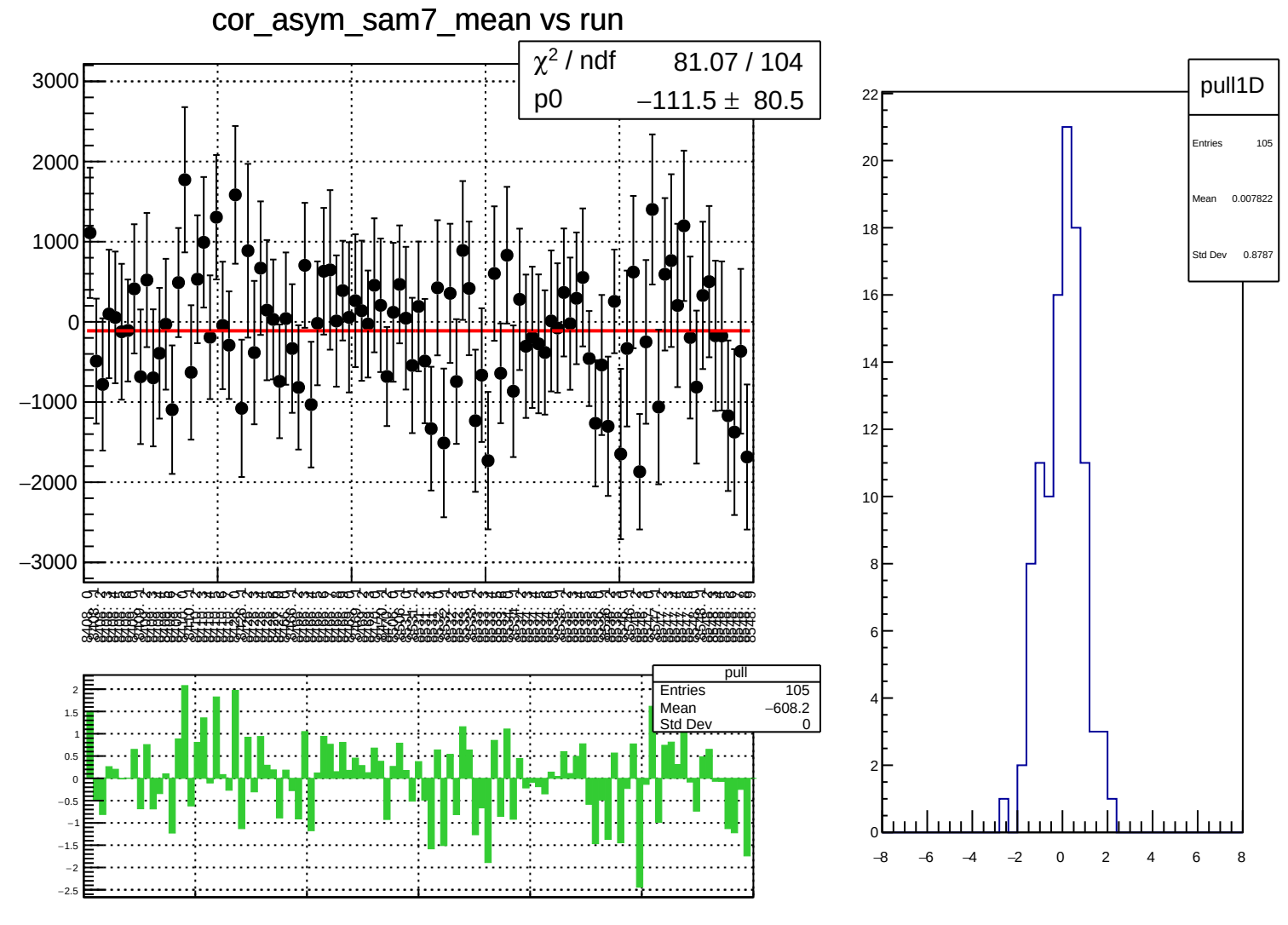

asym_sam6_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
χ² / ndf 9.463e+05 / 104
p0 5.41e−11 ± 5.159e−14

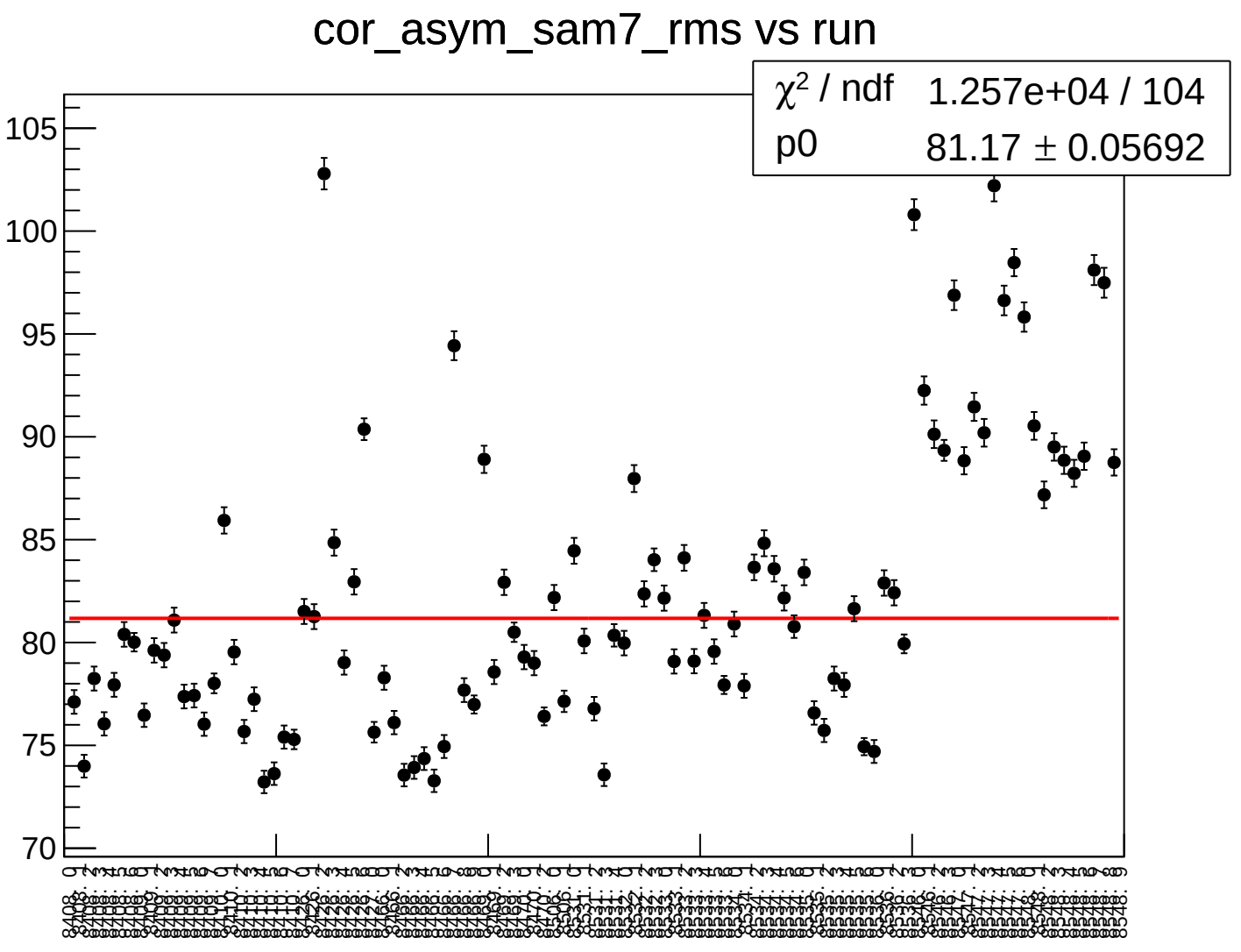

reg_asym_sam7_mean vs run
χ² / ndf 81.07 / 104
p0 −111.5 ± 80.5
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 105
Mean −607.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 105
Mean 0.007824
Std Dev 0.8787
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

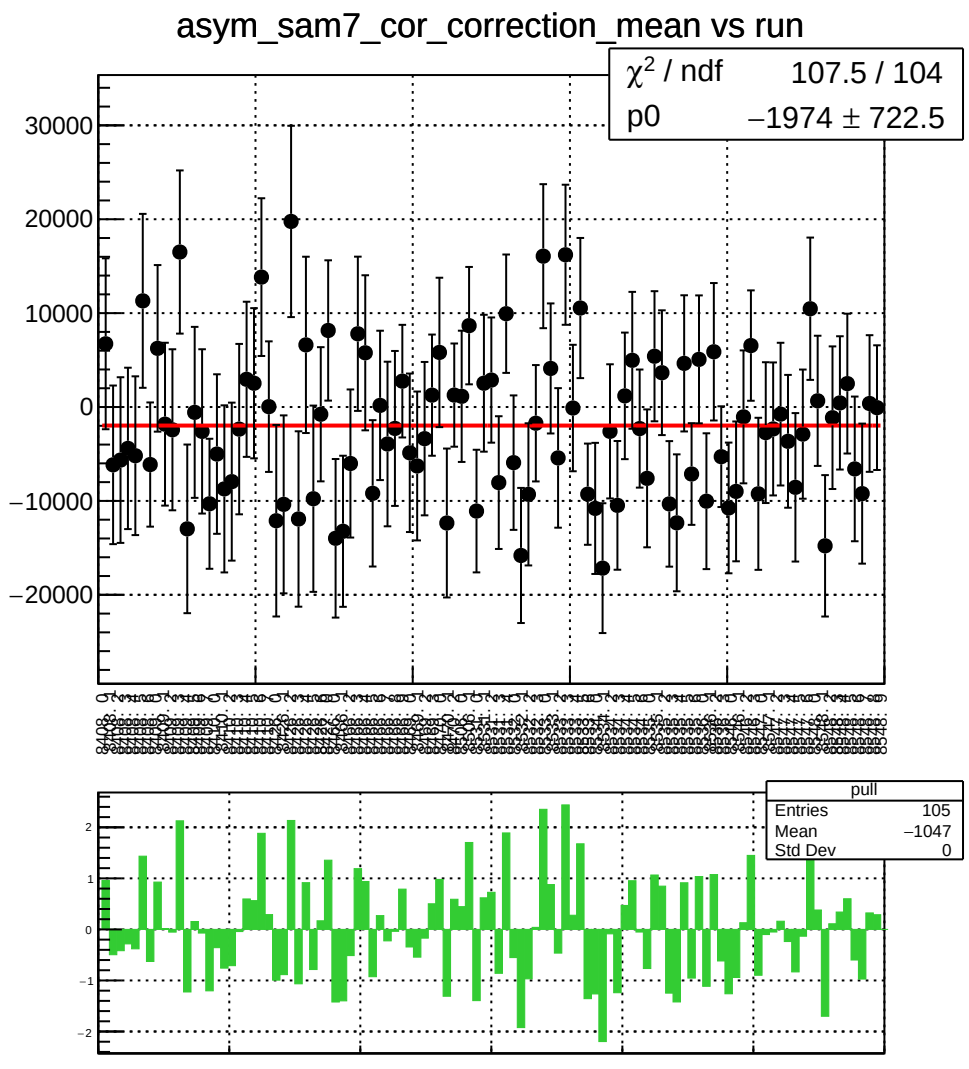

reg_asym_sam7_rms vs run
χ² / ndf 1.257e+04 / 104
p0 81.17 ± 0.05692
105
100
95
90
85
80
75
70

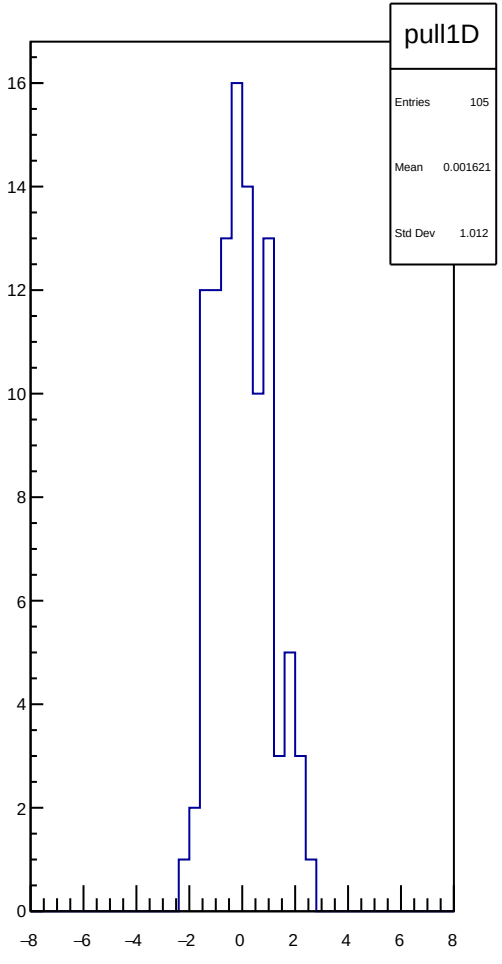

asym_sam7_reg_correction_mean vs run
χ² / ndf 107.5 / 104
p0 −1974 ± 722.5
30000
20000
10000
0
−10000
−20000
pull
Entries 105
Mean −1047
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.001621
Std Dev 1.012
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

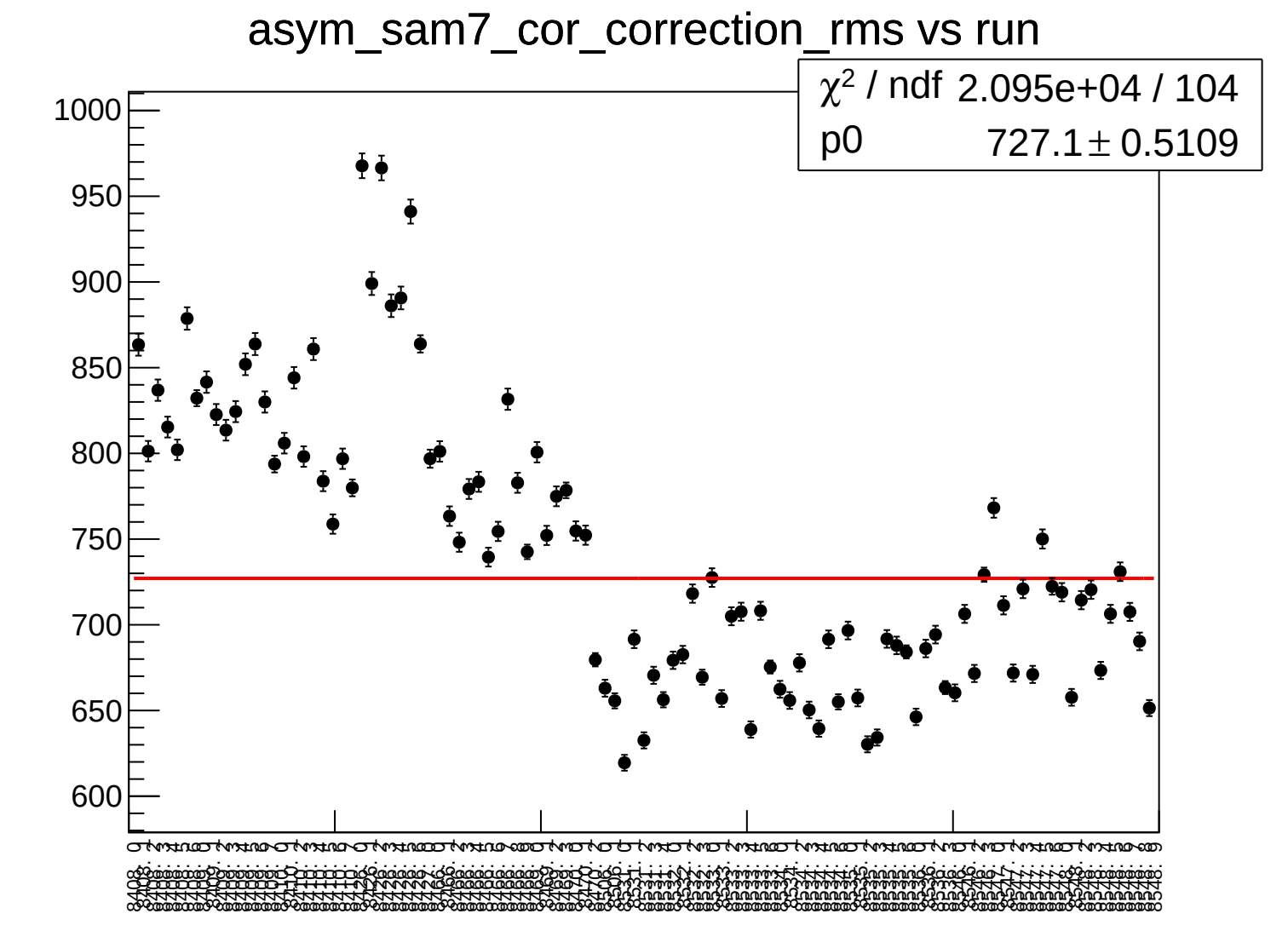

asym_sam7_reg_correction_rms vs run
χ² / ndf 2.095e+04 / 104
p0 727.1 ± 0.5109
1000
950
900
850
800
750
700
650
600

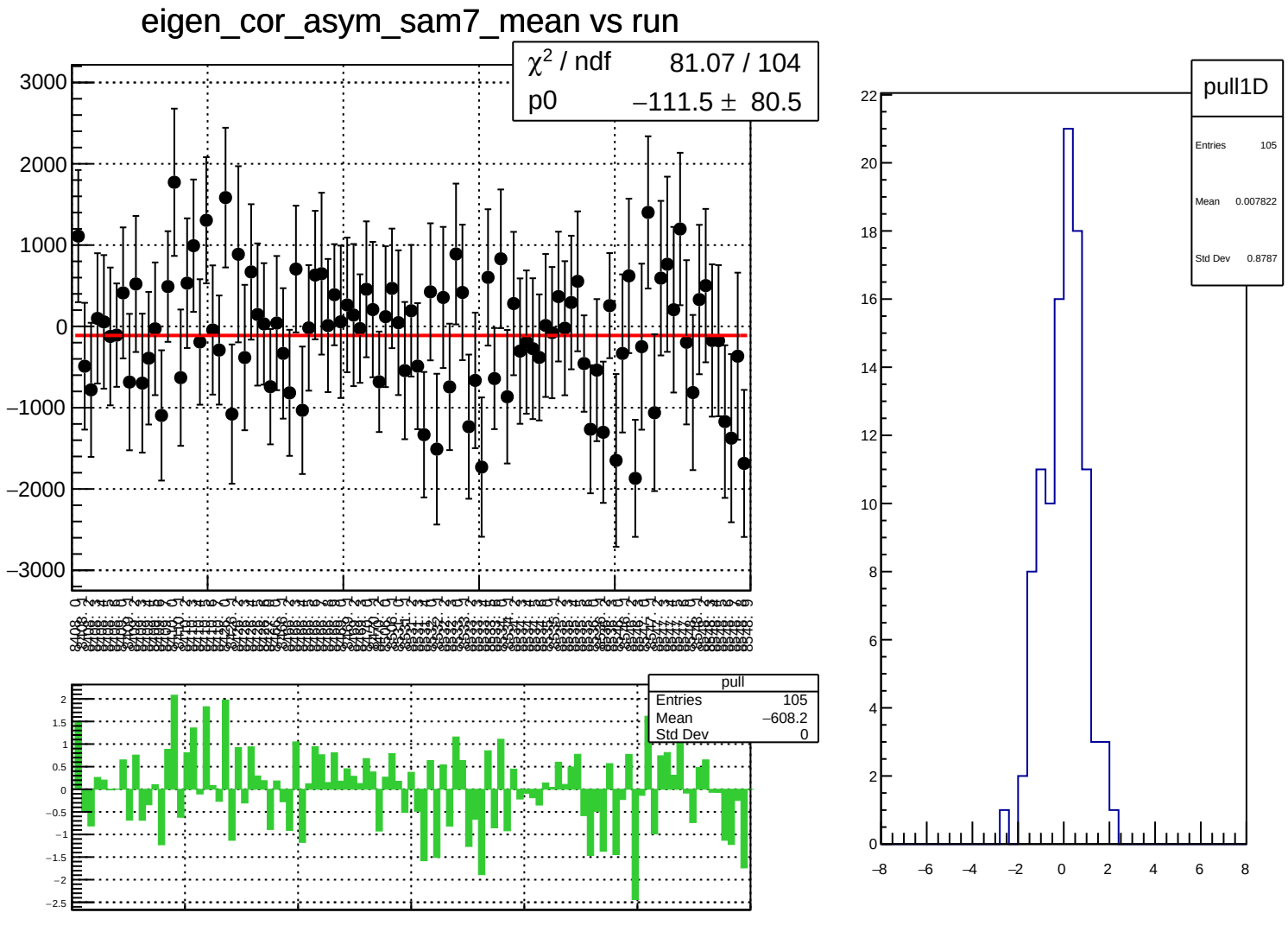

cor_asym_sam7_mean vs run
χ² / ndf 81.07 / 104
p0 −111.5 ± 80.5
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 105
Mean −608.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 105
Mean 0.007822
Std Dev 0.8787
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

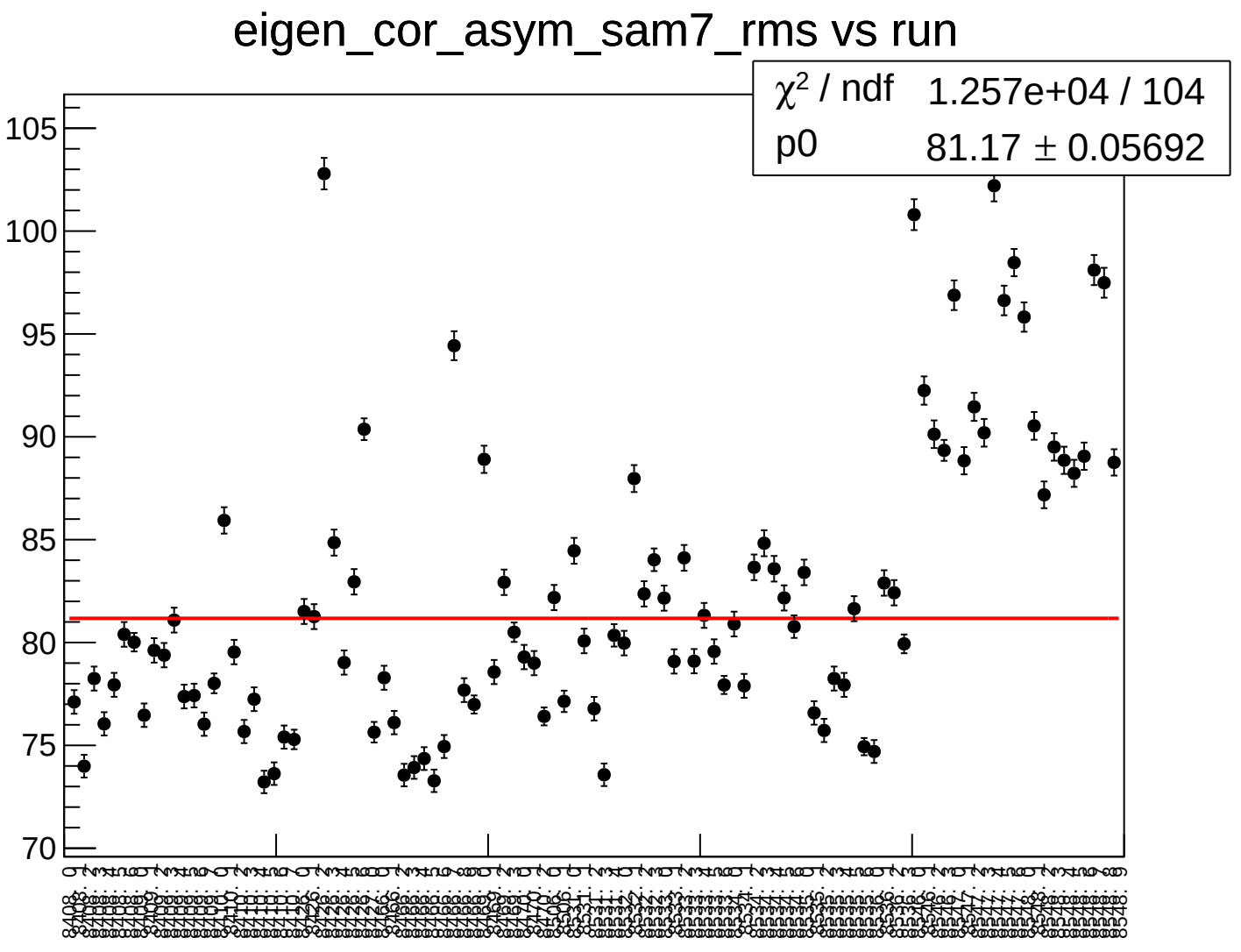

cor_asym_sam7_rms vs run
χ² / ndf 1.257e+04 / 104
p0 81.17 ± 0.05692
105
100
95
90
85
80
75
70

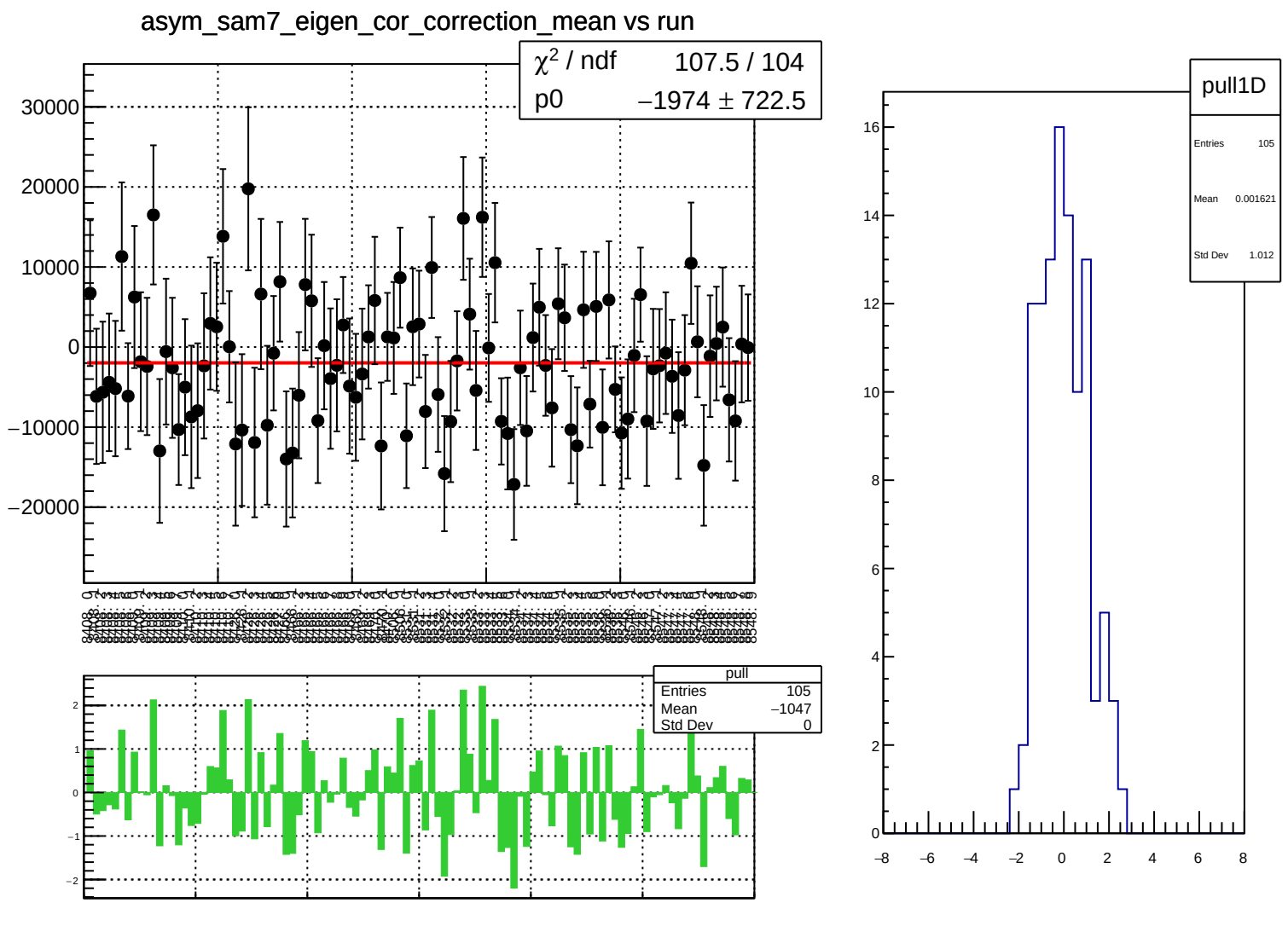

asym_sam7_cor_correction_mean vs run
χ² / ndf 107.5 / 104
p0 −1974 ± 722.5
30000
20000
10000
0
−10000
−20000
pull
Entries 105
Mean −1047
Std Dev 0
2
1
0
−1
−2

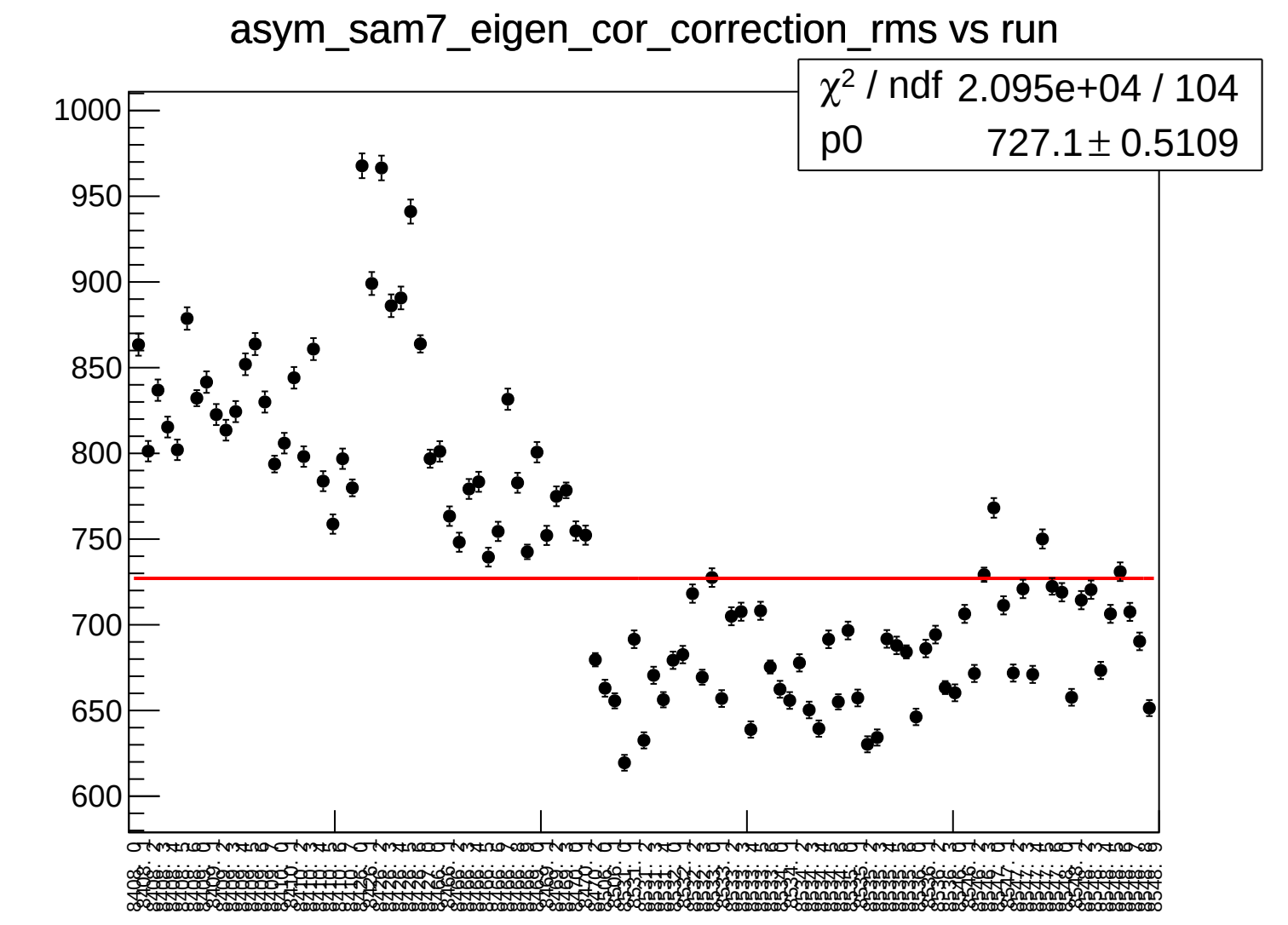

pull1D
Entries 105
Mean 0.001621
Std Dev 1.012
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

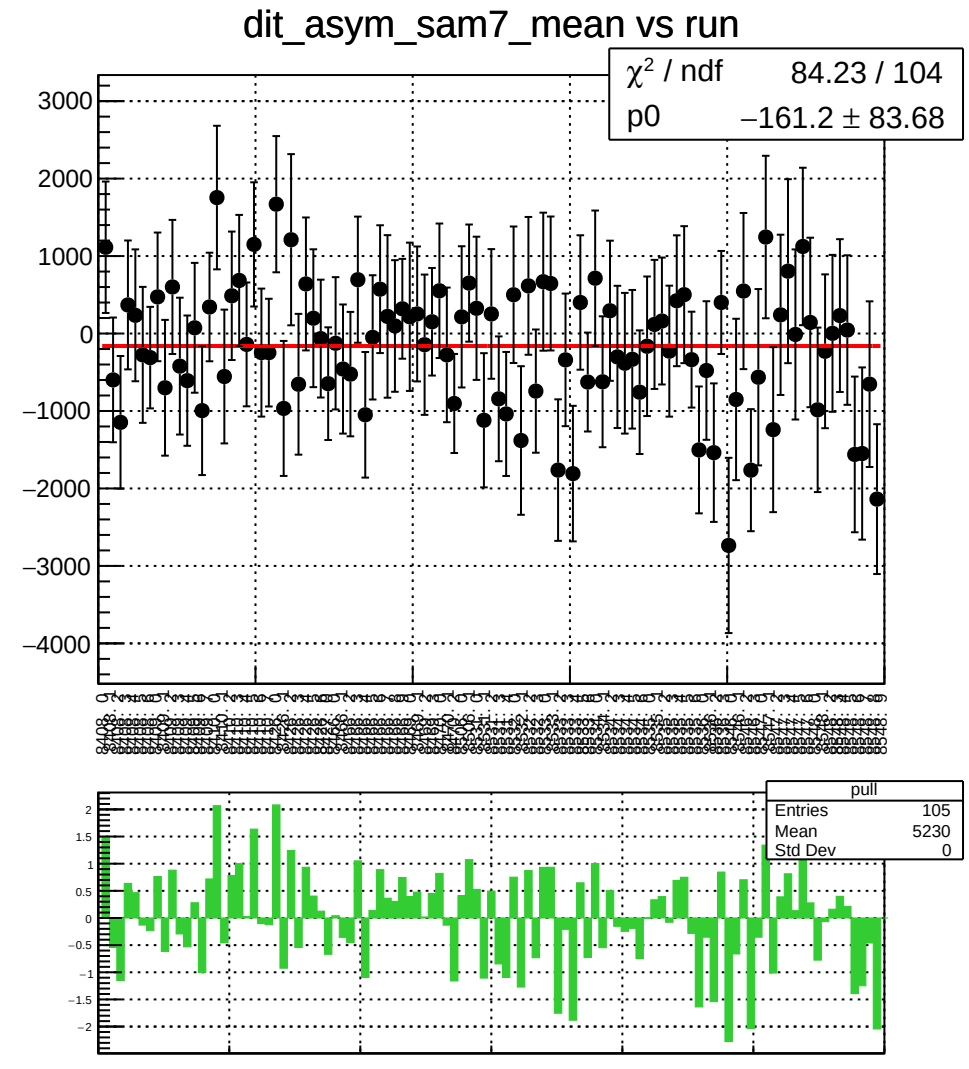

asym_sam7_cor_correction_rms vs run
χ² / ndf 2.095e+04 / 104
p0 727.1 ± 0.5109
1000
950
900
850
800
750
700
650
600

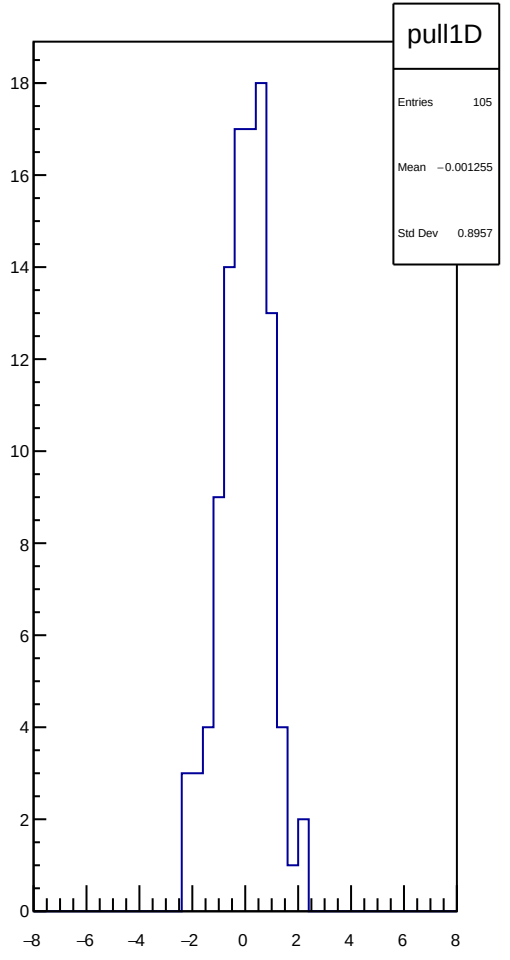

eigen_cor_asym_sam7_mean vs run
χ² / ndf 81.07 / 104
p0 −111.5 ± 80.5
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 105
Mean −608.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 105
Mean 0.007822
Std Dev 0.8787
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

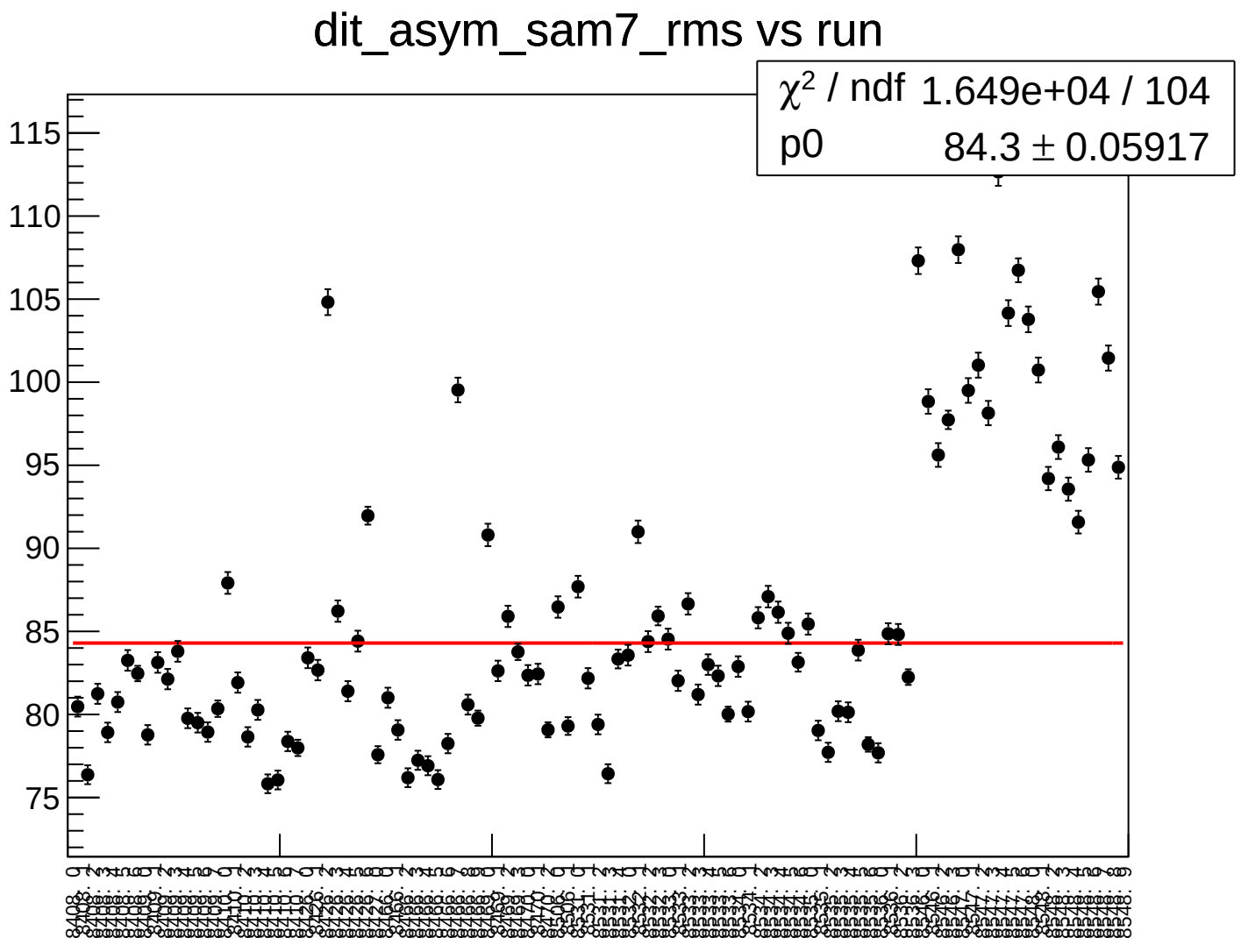

eigen_cor_asym_sam7_rms vs run
χ² / ndf 1.257e+04 / 104
p0 81.17 ± 0.05692
105
100
95
90
85
80
75
70

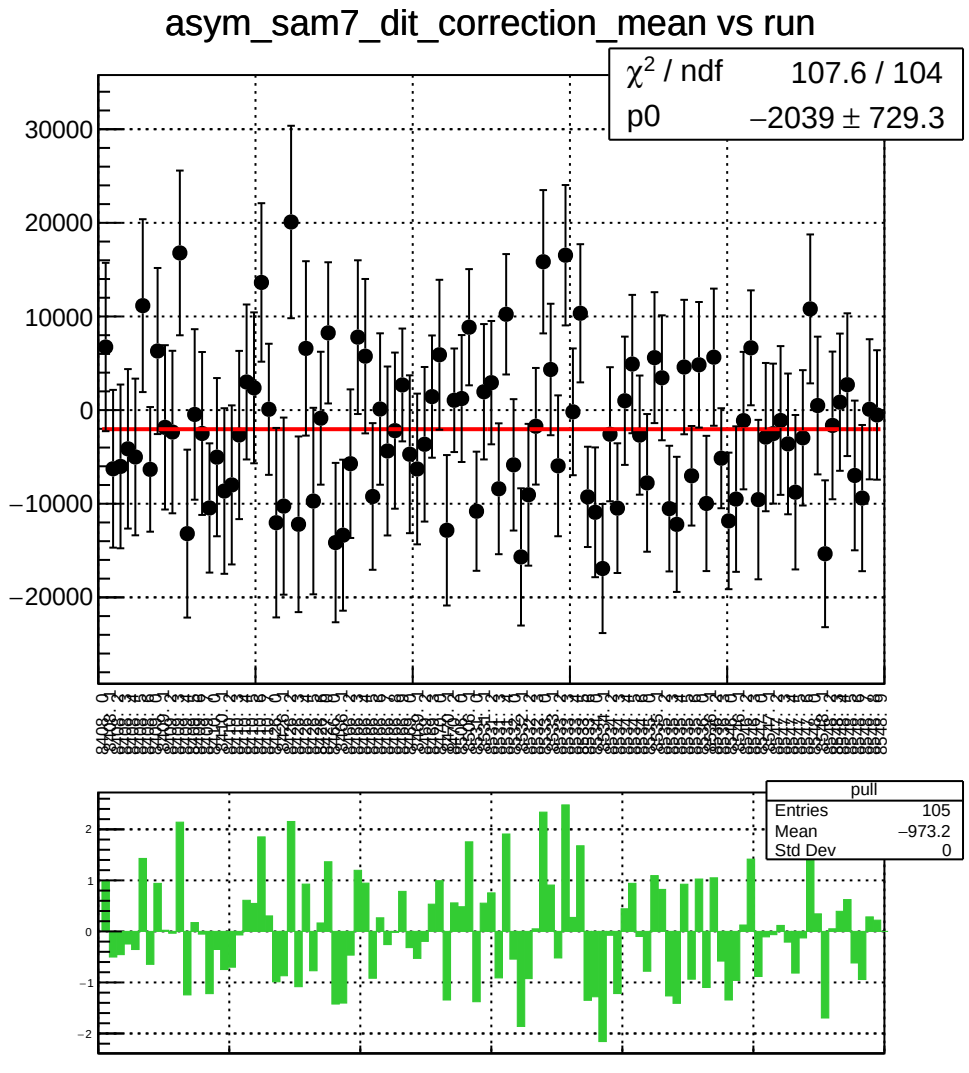

asym_sam7_eigen_cor_correction_mean vs run
χ² / ndf 107.5 / 104
p0 −1974 ± 722.5
30000
20000
10000
0
−10000
−20000
pull
Entries 105
Mean −1047
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.001621
Std Dev 1.012
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

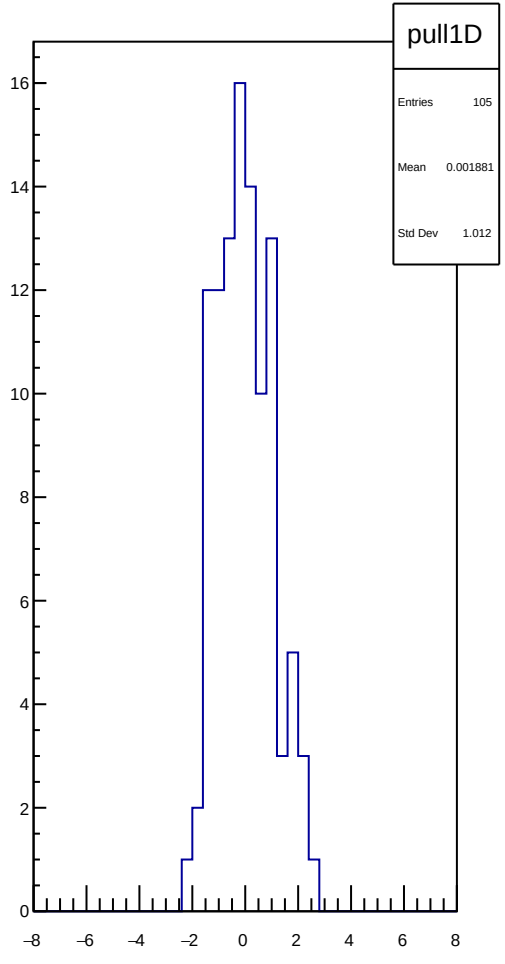

asym_sam7_eigen_cor_correction_rms vs run
χ² / ndf 2.095e+04 / 104
p0 727.1 ± 0.5109
1000
950
900
850
800
750
700
650
600

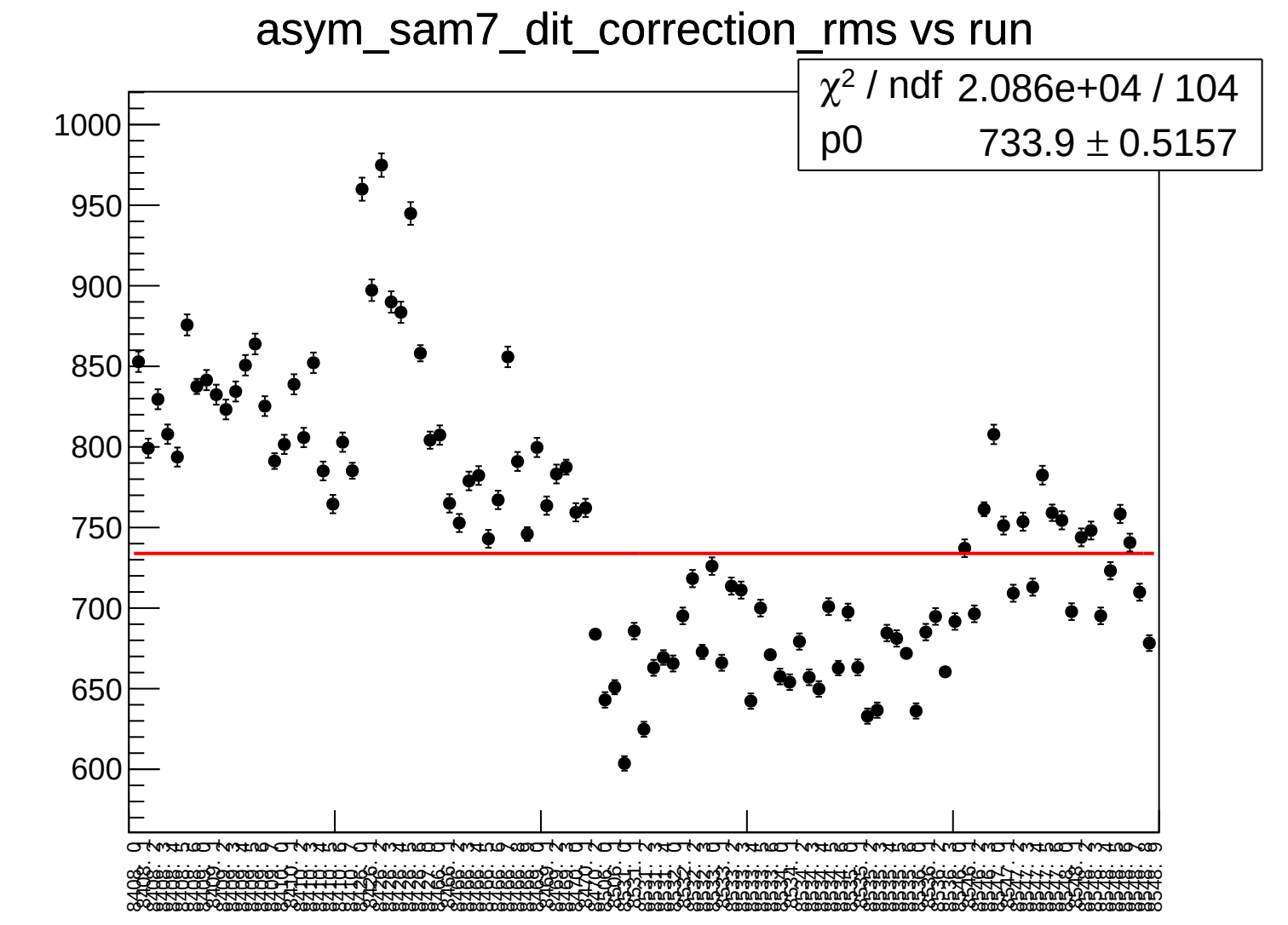

dit_asym_sam7_mean vs run
χ² / ndf 84.23 / 104
p0 −161.2 ± 83.68
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 105
Mean 5230
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

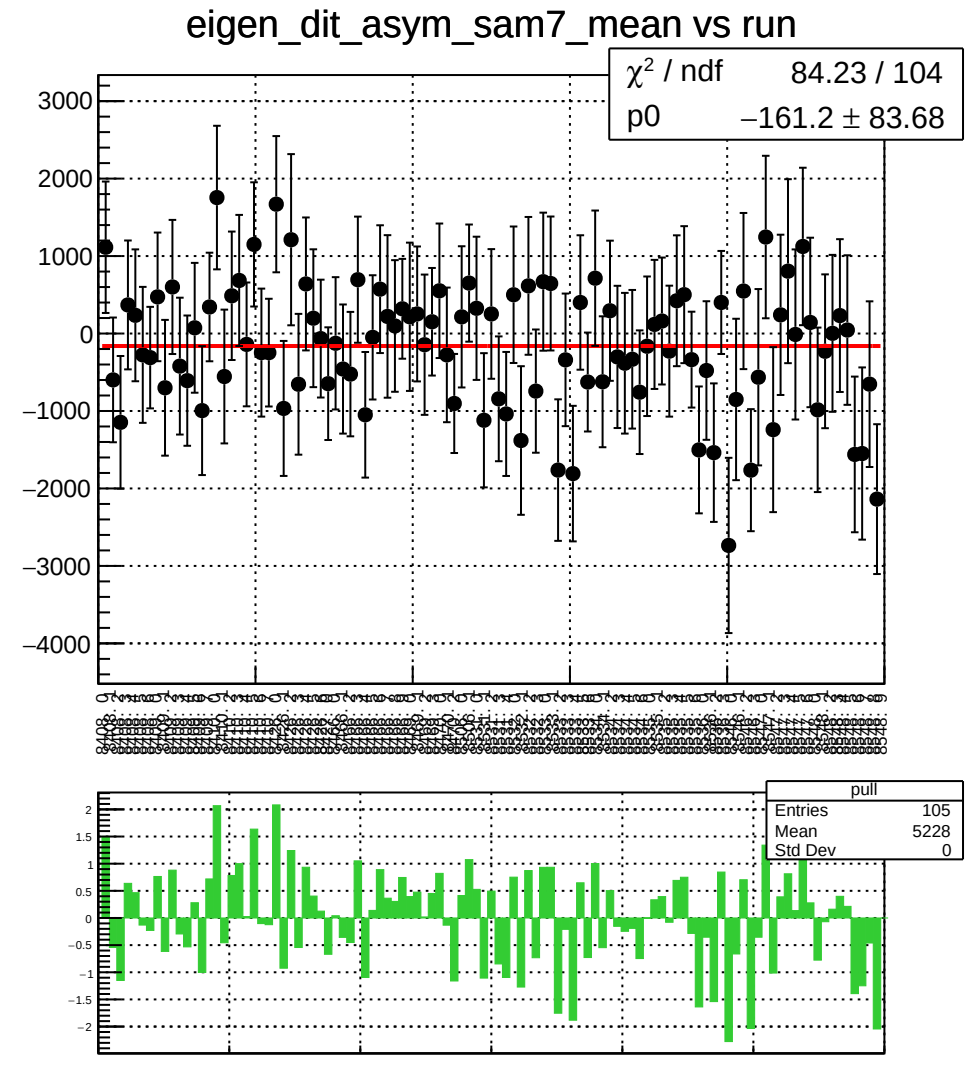

pull1D
Entries 105
Mean −0.001255
Std Dev 0.8957
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

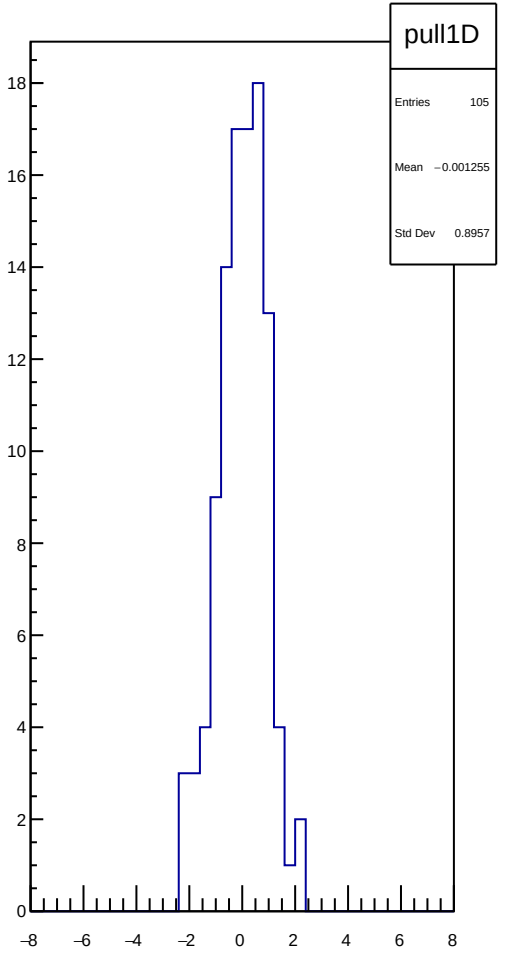

dit_asym_sam7_rms vs run
χ^2 / ndf 1.649e+04 / 104
p0 84.3 ± 0.05917
115
110
105
100
95
90
85
80
75

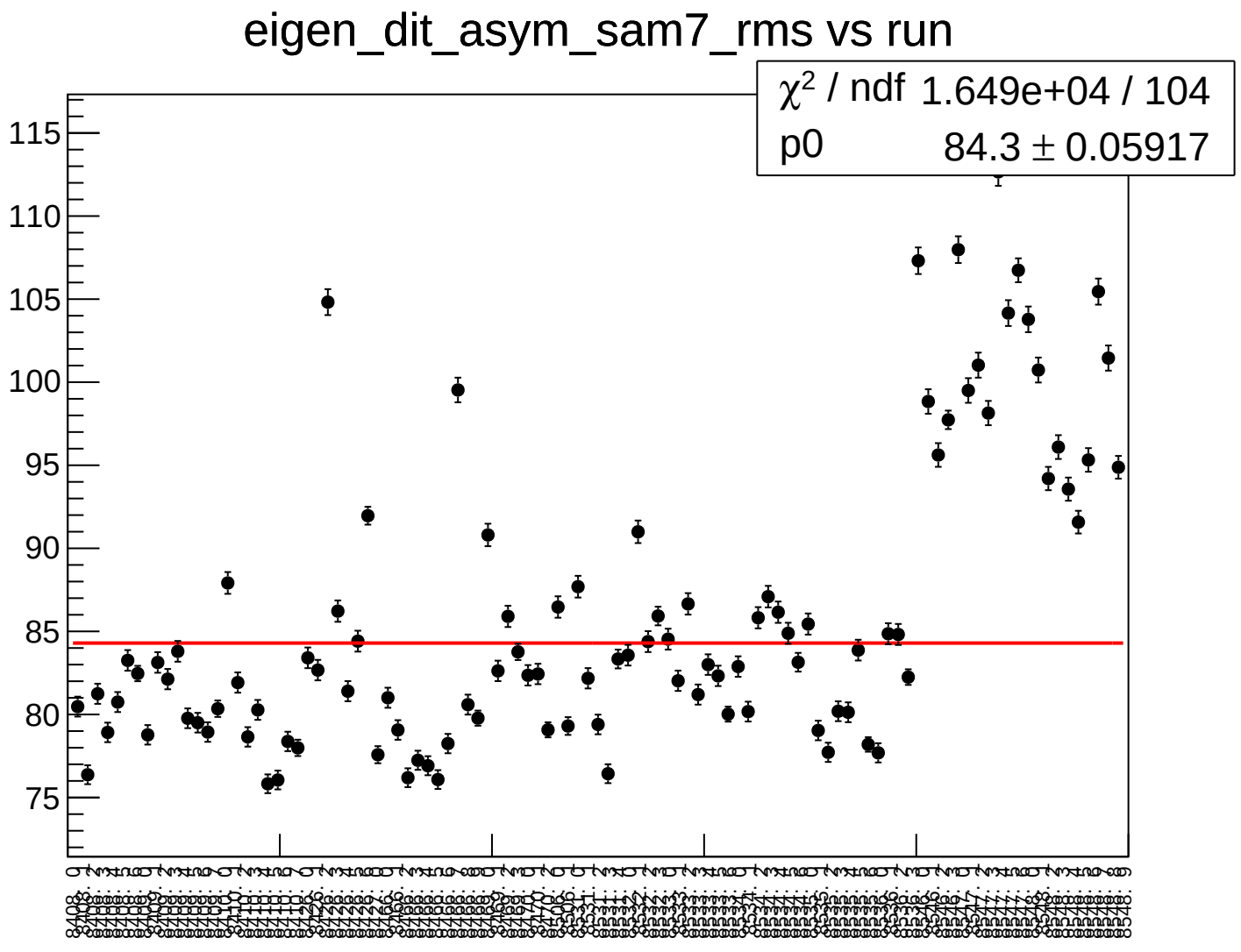

asym_sam7_dit_correction_mean vs run
χ² / ndf 107.6 / 104
p0 −2039 ± 729.3
30000
20000
10000
0
−10000
−20000
pull
Entries 105
Mean −973.2
Std Dev 0
2
1
0
−1
−2

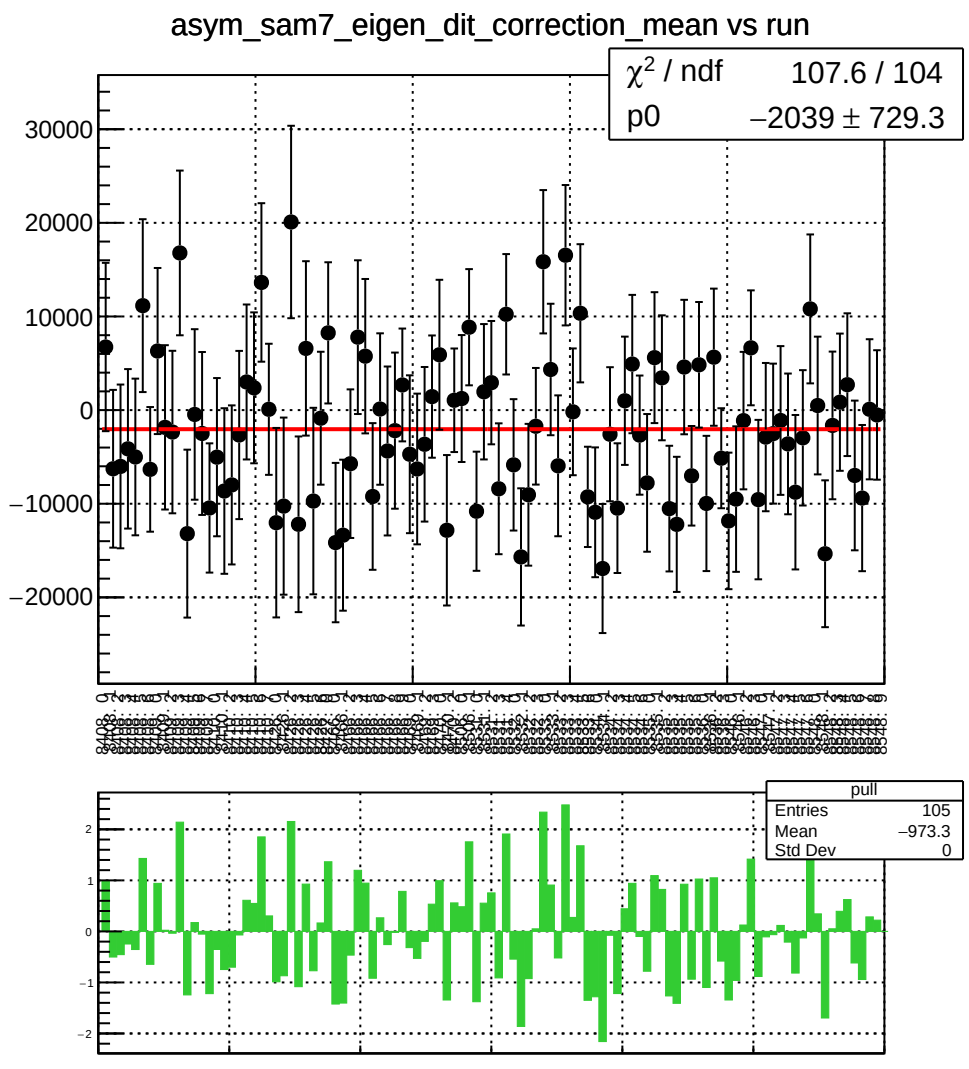

pull1D
Entries 105
Mean 0.001881
Std Dev 1.012
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

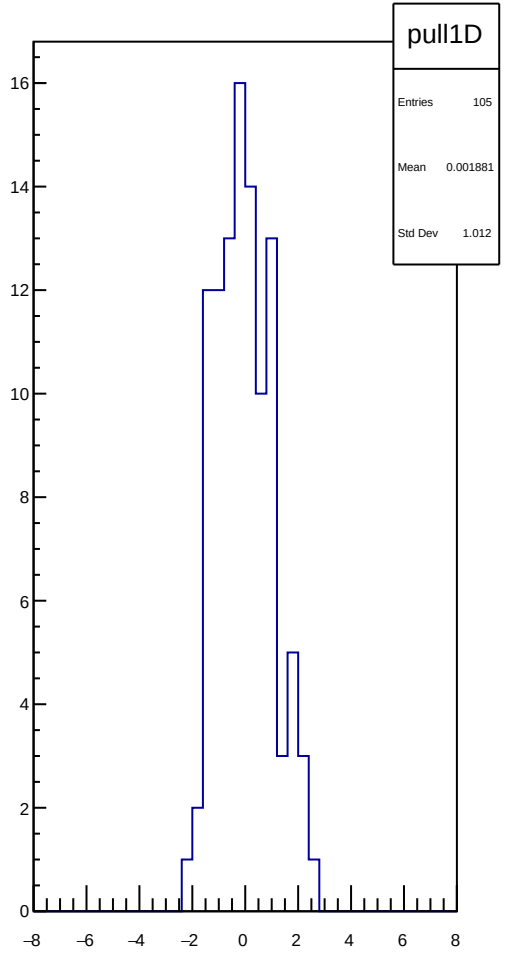

asym_sam7_dit_correction_rms vs run
χ² / ndf 2.086e+04 / 104
p0 733.9 ± 0.5157
1000
950
900
850
800
750
700
650
600

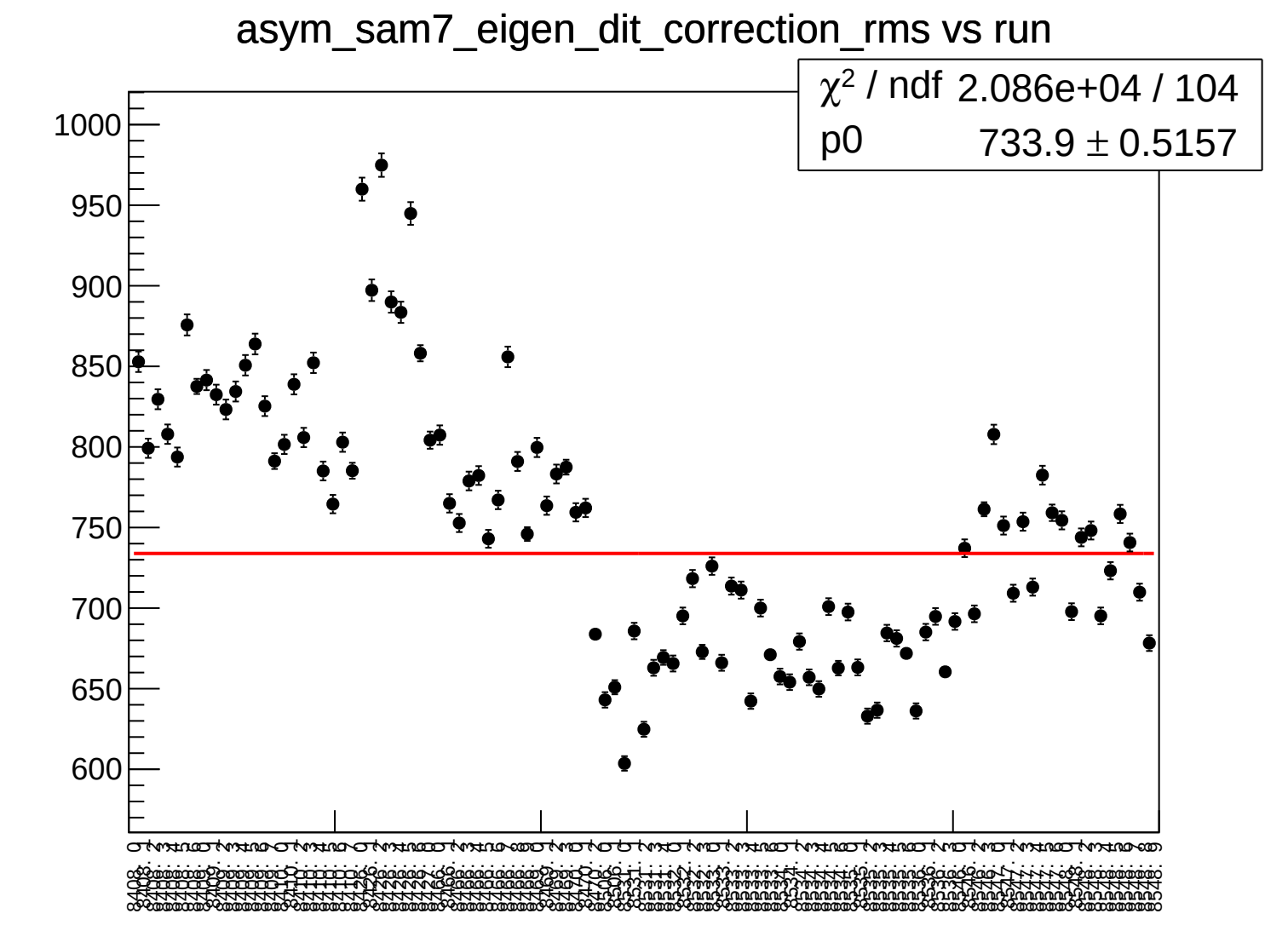

eigen_dit_asym_sam7_mean vs run
χ² / ndf 84.23 / 104
p0 −161.2 ± 83.68
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 105
Mean 5228
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

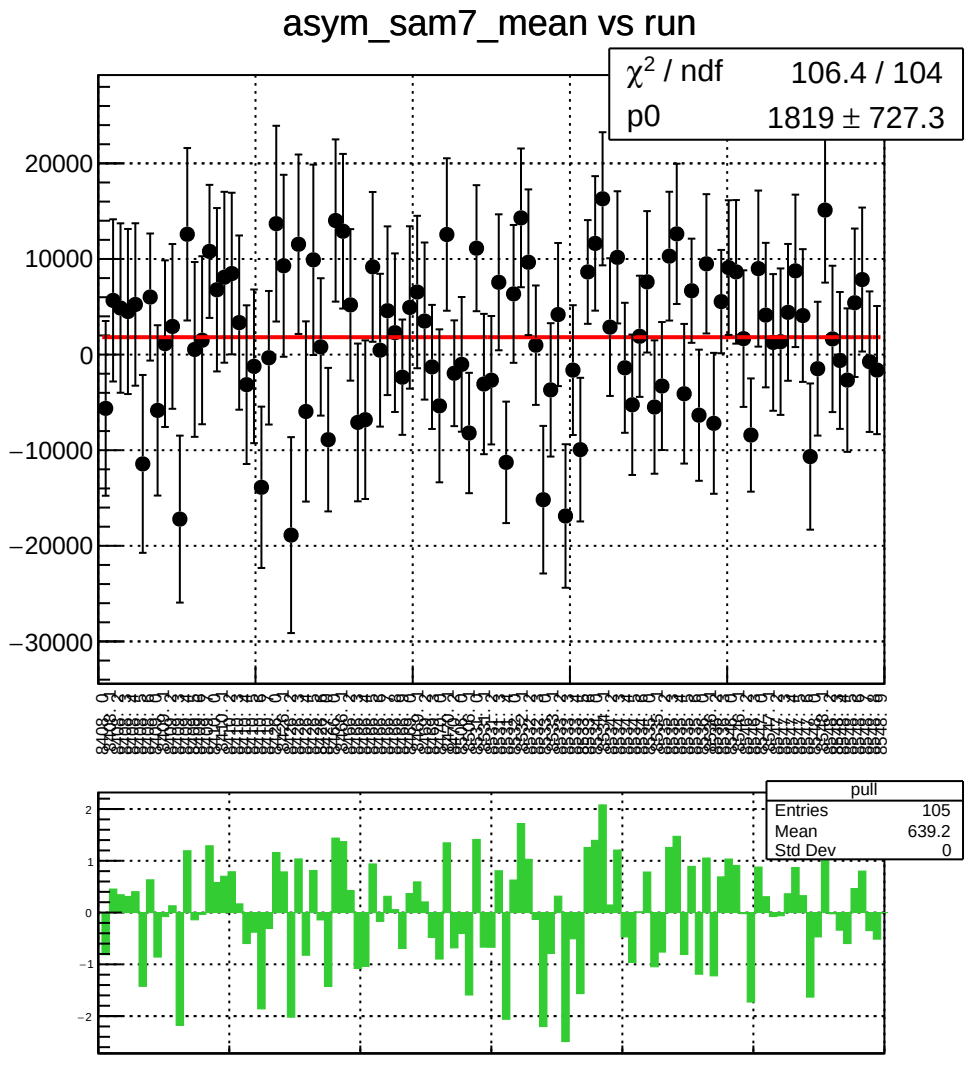

pull1D
Entries 105
Mean −0.001255
Std Dev 0.8957
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

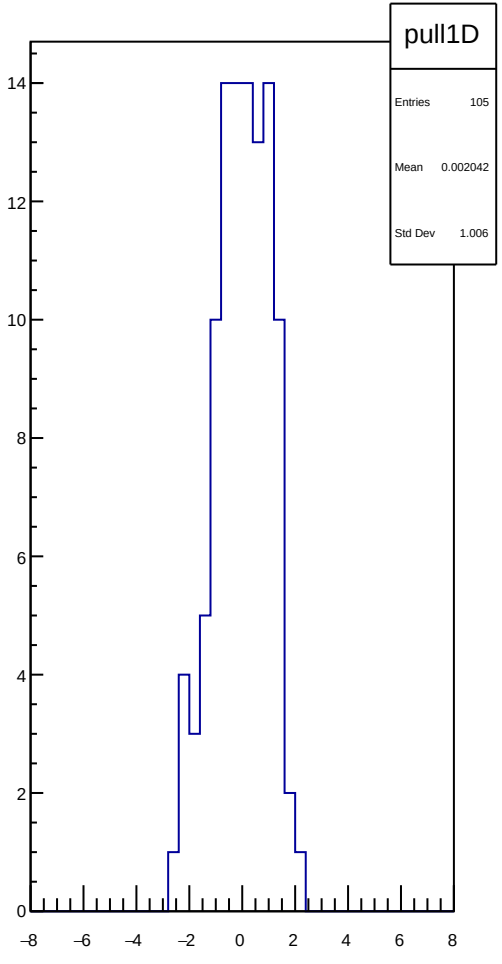

eigen_dit_asym_sam7_rms vs run
χ² / ndf 1.649e+04 / 104
p0 84.3 ± 0.05917
115
110
105
100
95
90
85
80
75

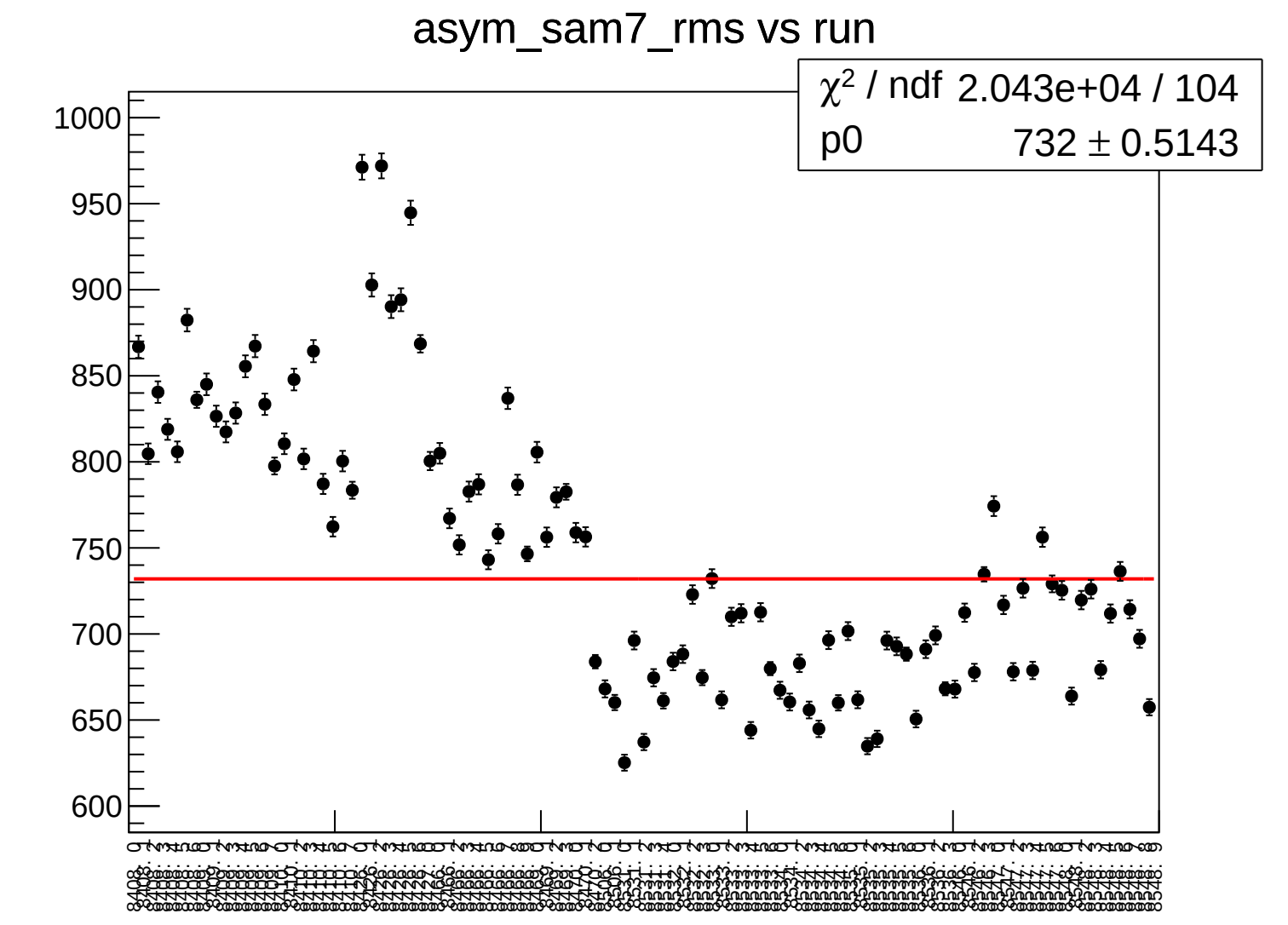

asym_sam7_eigen_dit_correction_mean vs run
χ² / ndf 107.6 / 104
p0 −2039 ± 729.3
30000
20000
10000
0
−10000
−20000
pull
Entries 105
Mean −973.3
Std Dev 0
2
1
0
−1
−2

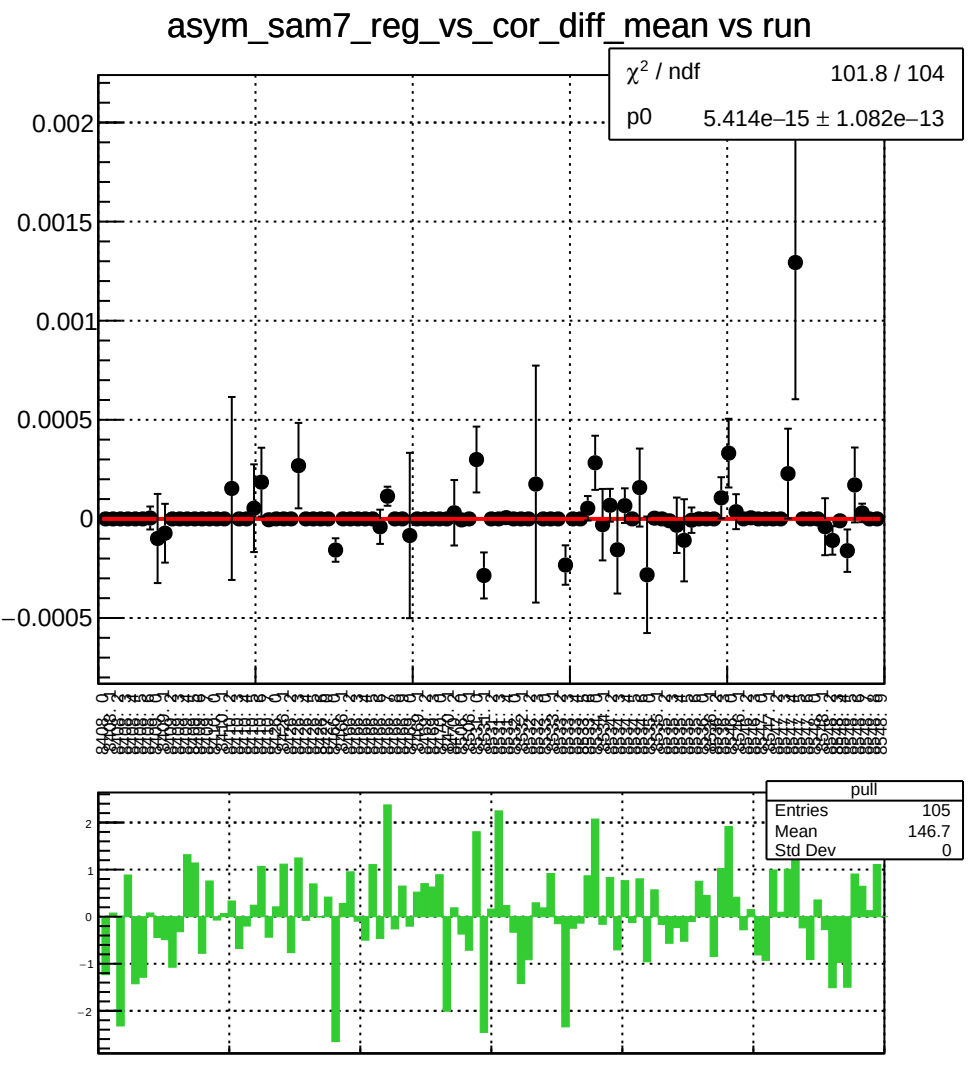

pull1D
Entries 105
Mean 0.001881
Std Dev 1.012
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

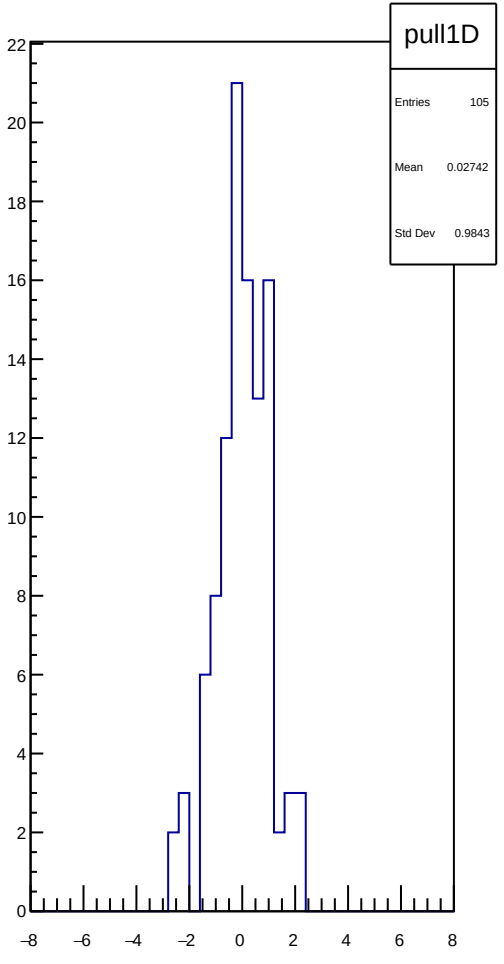

asym_sam7_eigen_dit_correction_rms vs run
χ² / ndf 2.086e+04 / 104
p0 733.9 ± 0.5157
1000
950
900
850
800
750
700
650
600

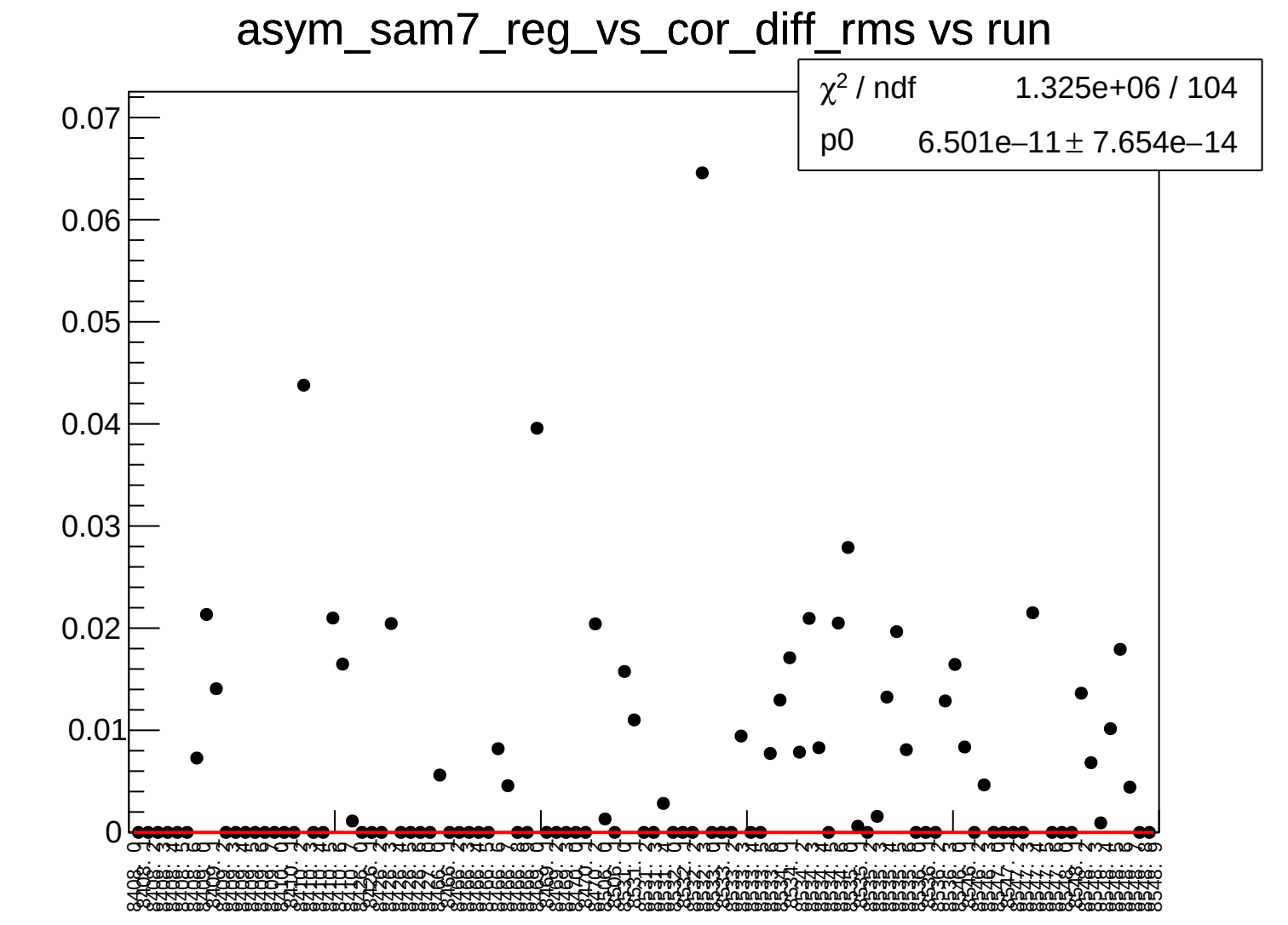

asym_sam7_mean vs run
χ² / ndf 106.4 / 104
p0 1819 ± 727.3
20000
10000
0
−10000
−20000
−30000
pull
Entries 105
Mean 639.2
Std Dev 0
2
1
0
−1
−2

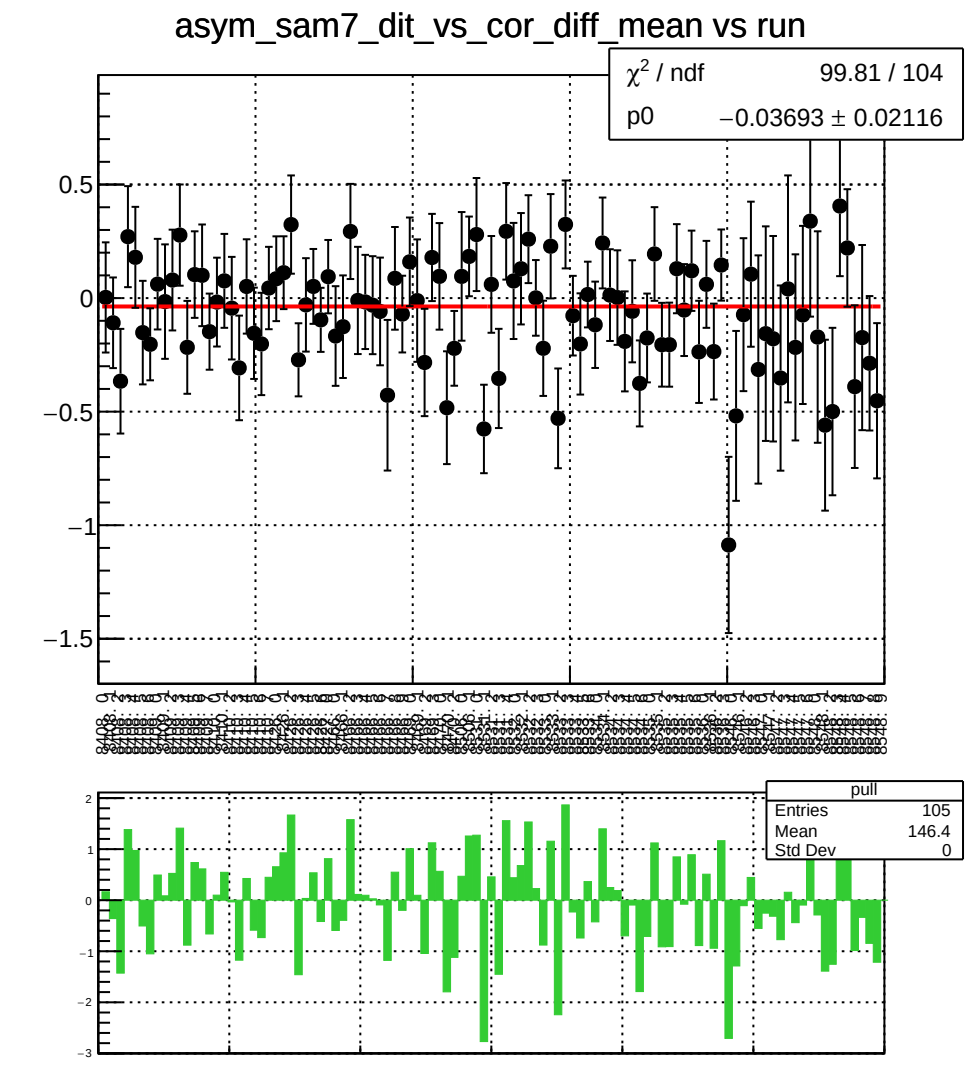

pull1D
Entries 105
Mean 0.002042
Std Dev 1.006
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

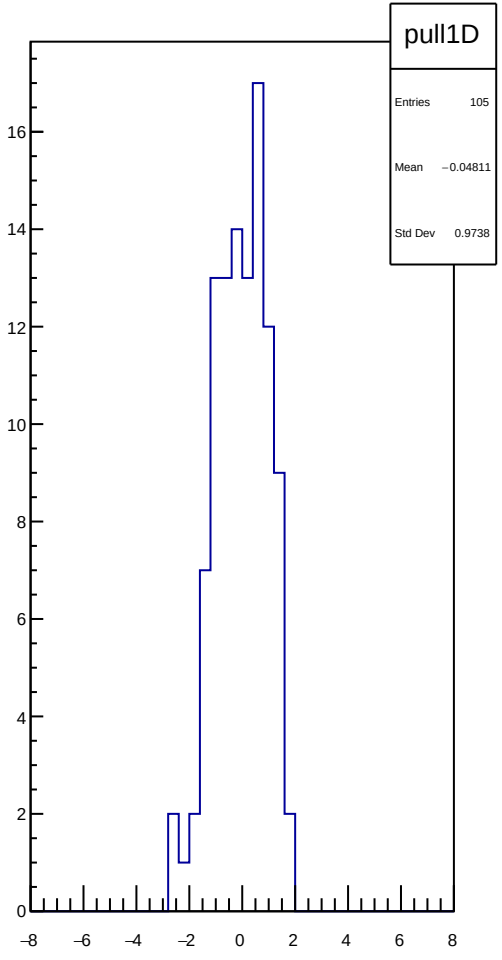

asym_sam7_rms vs run
χ^2 / ndf 2.043e+04 / 104
p0 732 ± 0.5143
1000
950
900
850
800
750
700
650
600

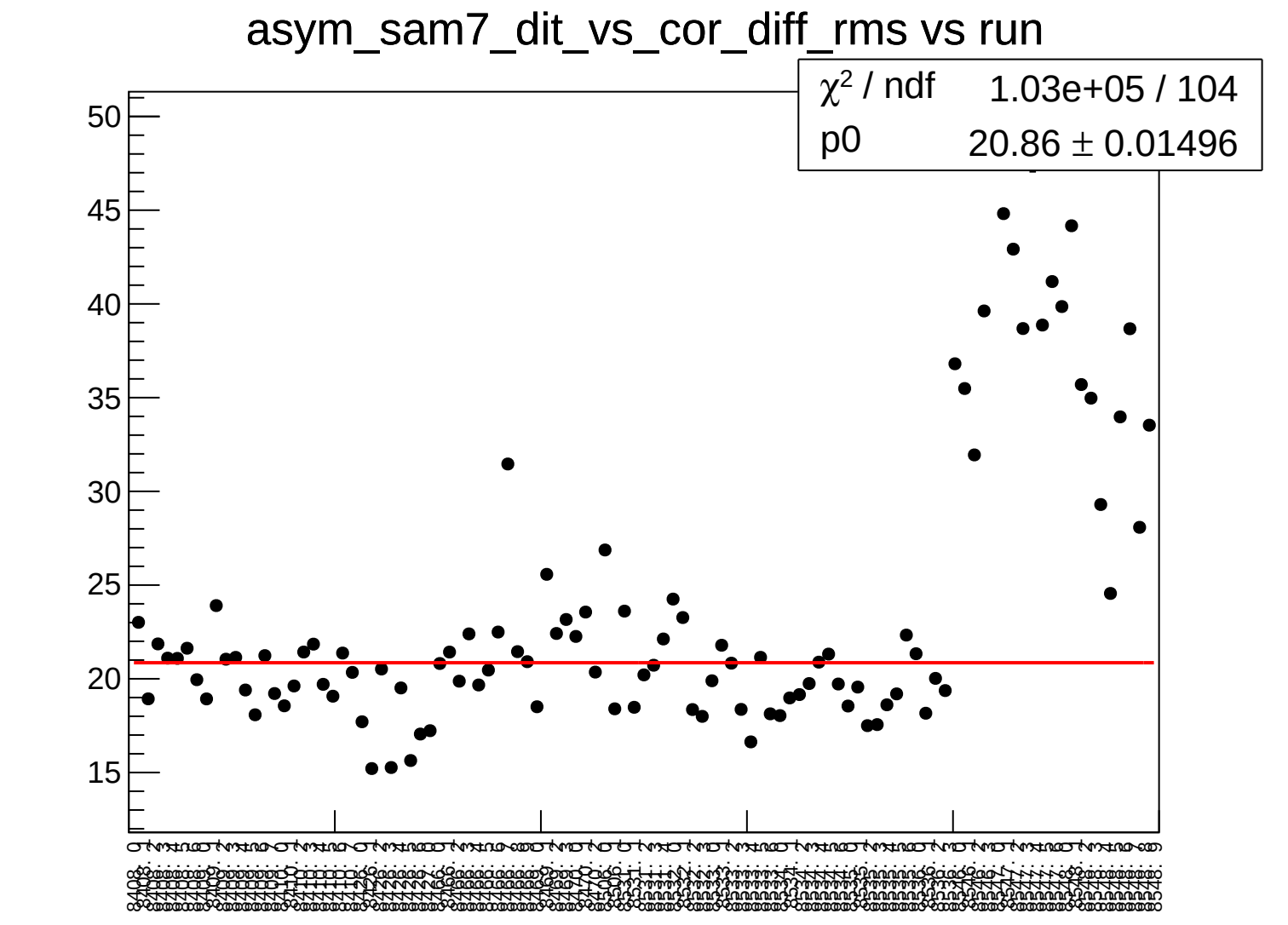

asym_sam7_reg_vs_cor_diff_mean vs run
χ² / ndf 101.8 / 104
p0 5.414e−15 ± 1.082e−13
0.002
0.0015
0.001
0.0005
0
−0.0005
pull
Entries 105
Mean 146.7
Std Dev 0
2
1
0
−1
−2

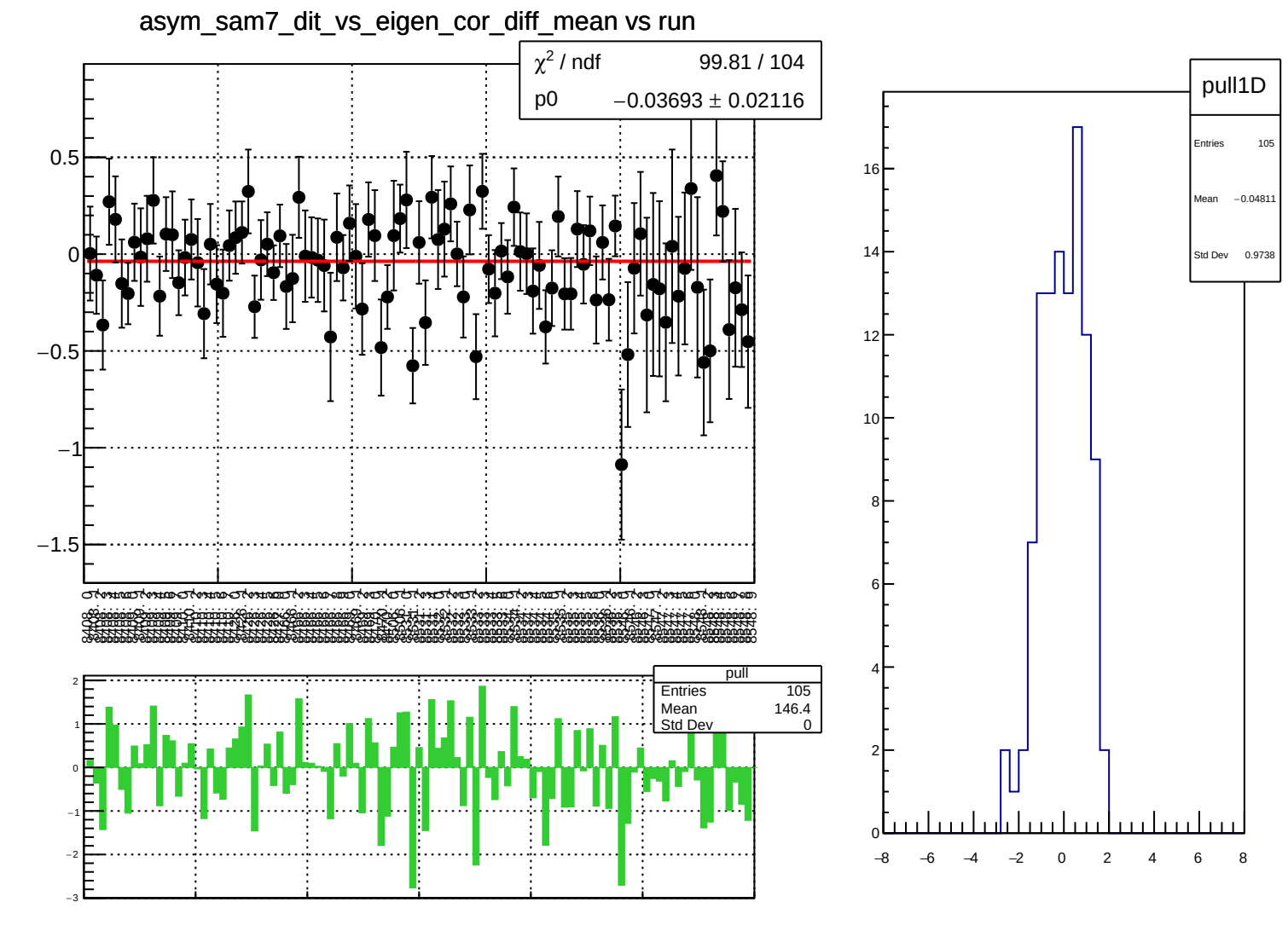

pull1D
Entries 105
Mean 0.02742
Std Dev 0.9843
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

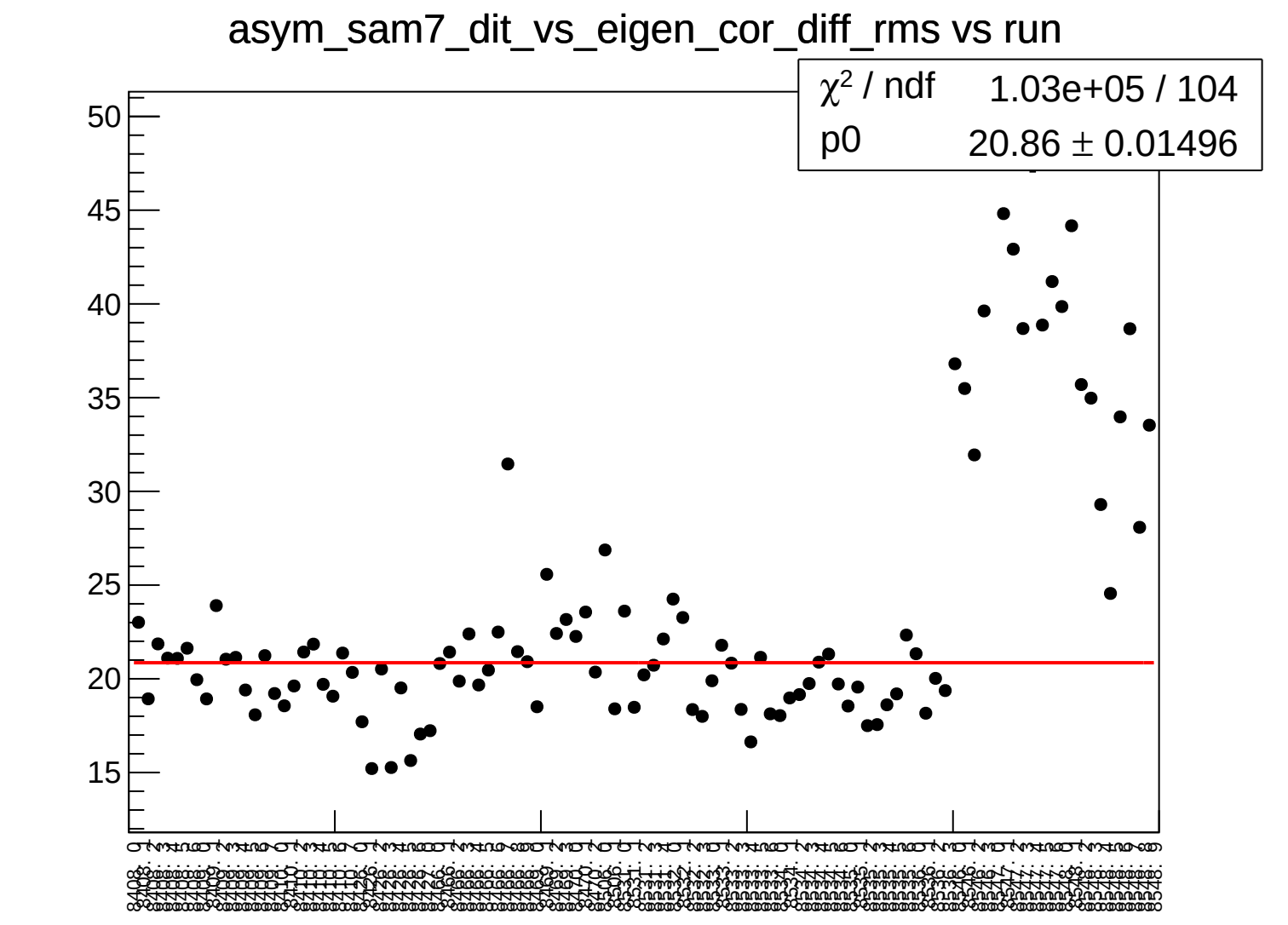

asym_sam7_reg_vs_cor_diff_rms vs run
χ² / ndf 1.325e+06 / 104
p0 6.501e−11 ± 7.654e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

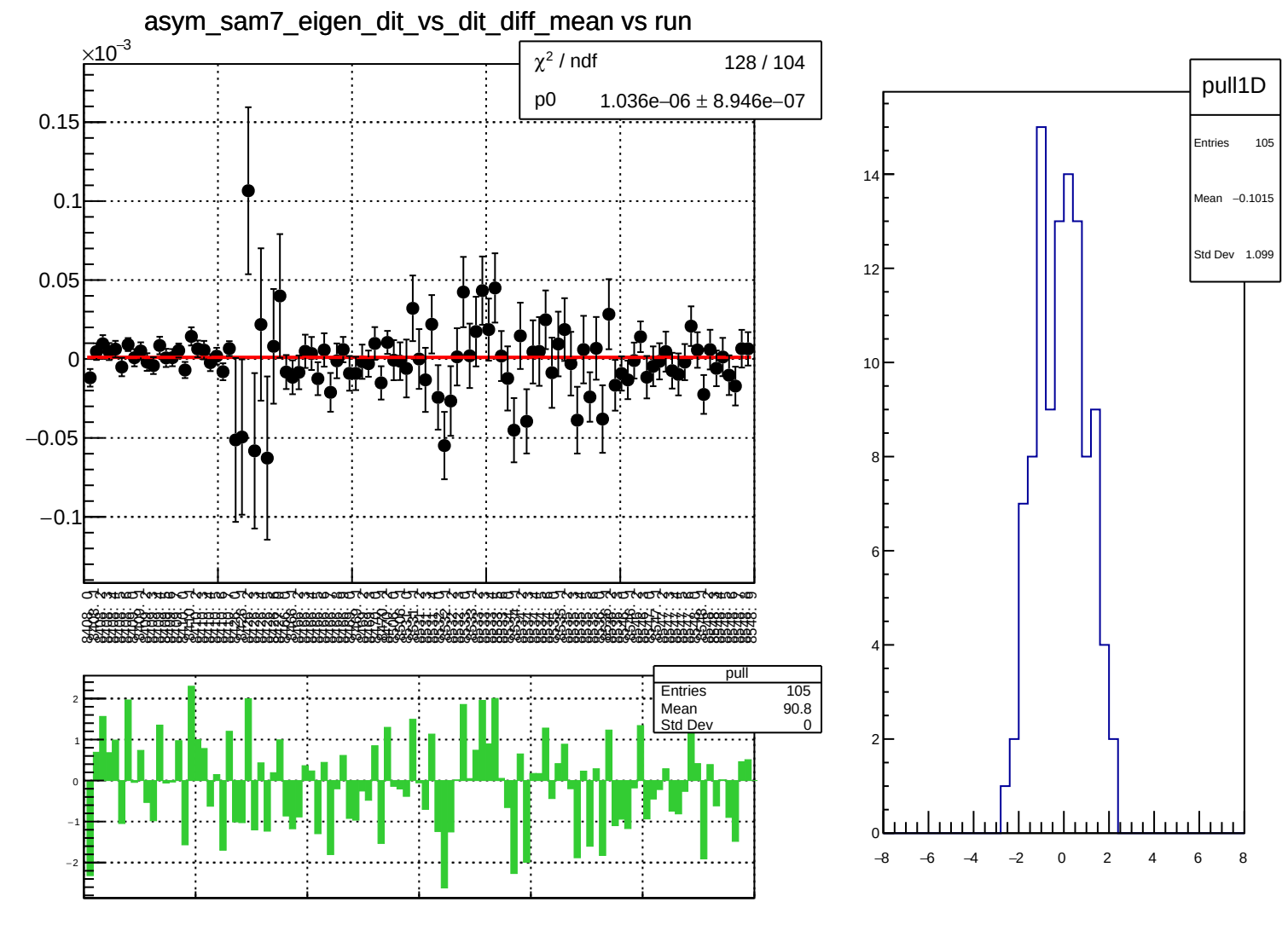

asym_sam7_dit_vs_cor_diff_mean vs run
χ² / ndf 99.81 / 104
p0 −0.03693 ± 0.02116
0.5
0
−0.5
−1
−1.5
pull
Entries 105
Mean 146.4
Std Dev 0
2
1
0
−1
−2
−3

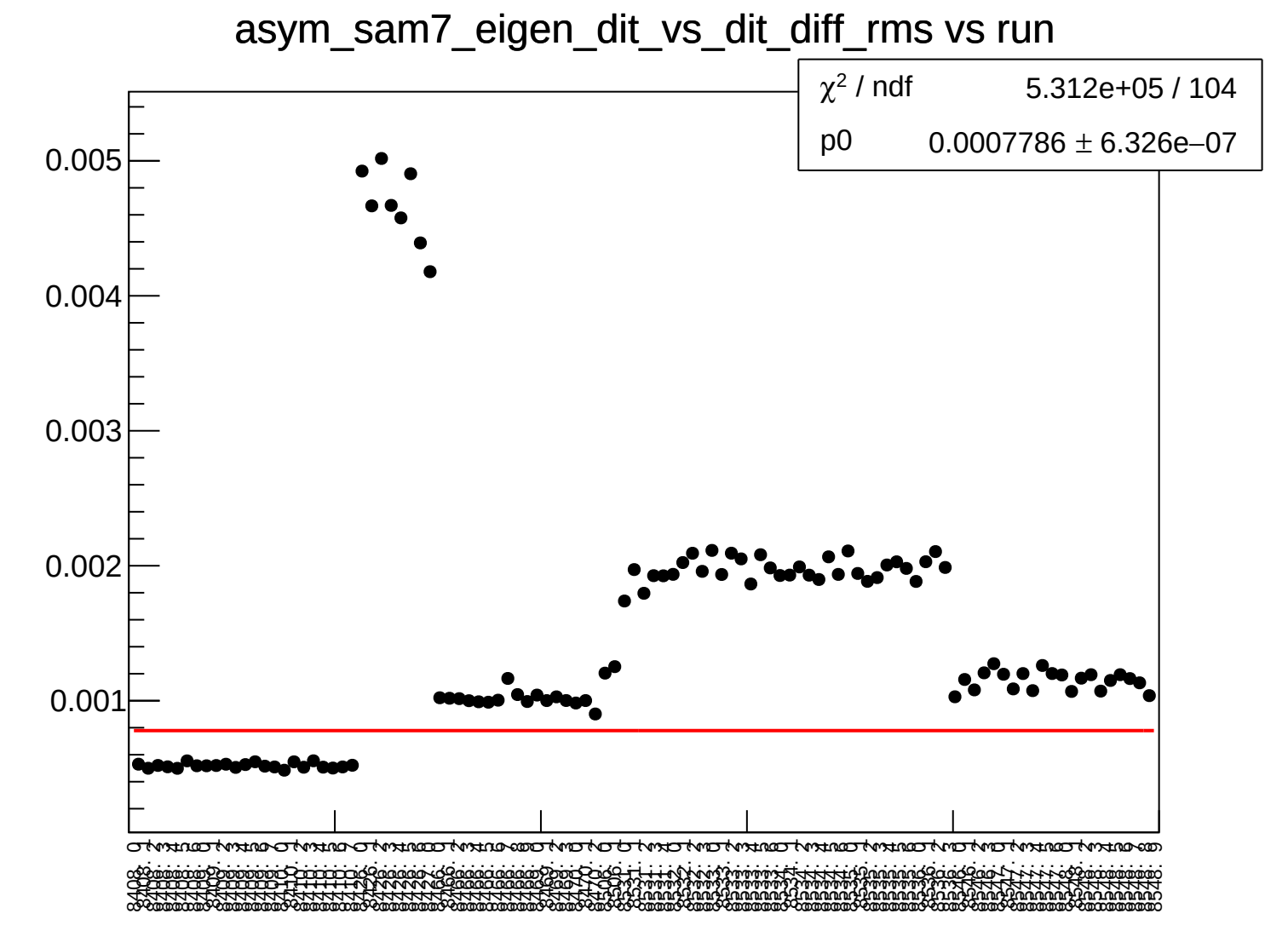

pull1D
Entries 105
Mean −0.04811
Std Dev 0.9738
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

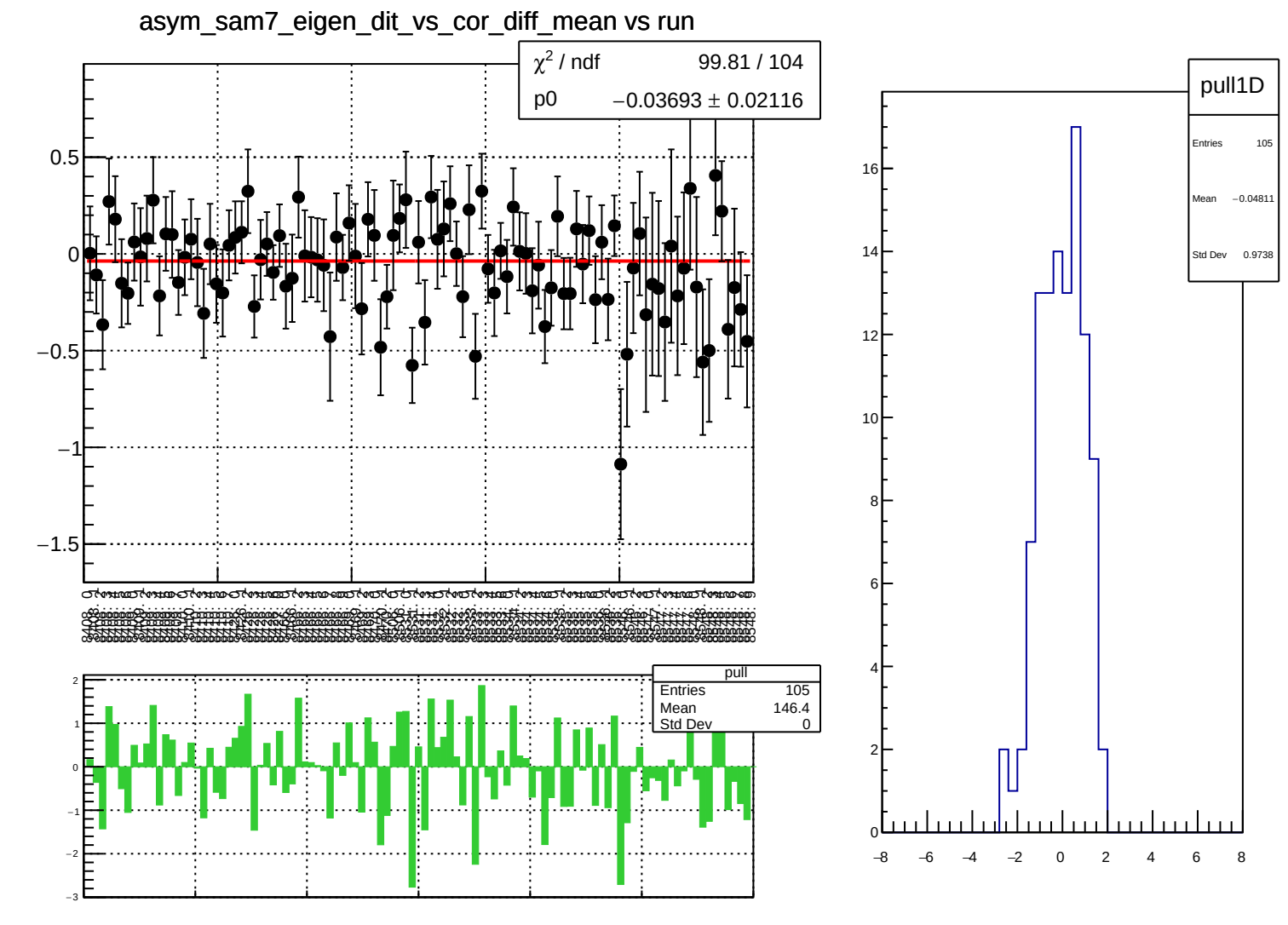

asym_sam7_dit_vs_cor_diff_rms vs run
χ² / ndf 1.03e+05 / 104
p0 20.86 ± 0.01496
50
45
40
35
30
25
20
15

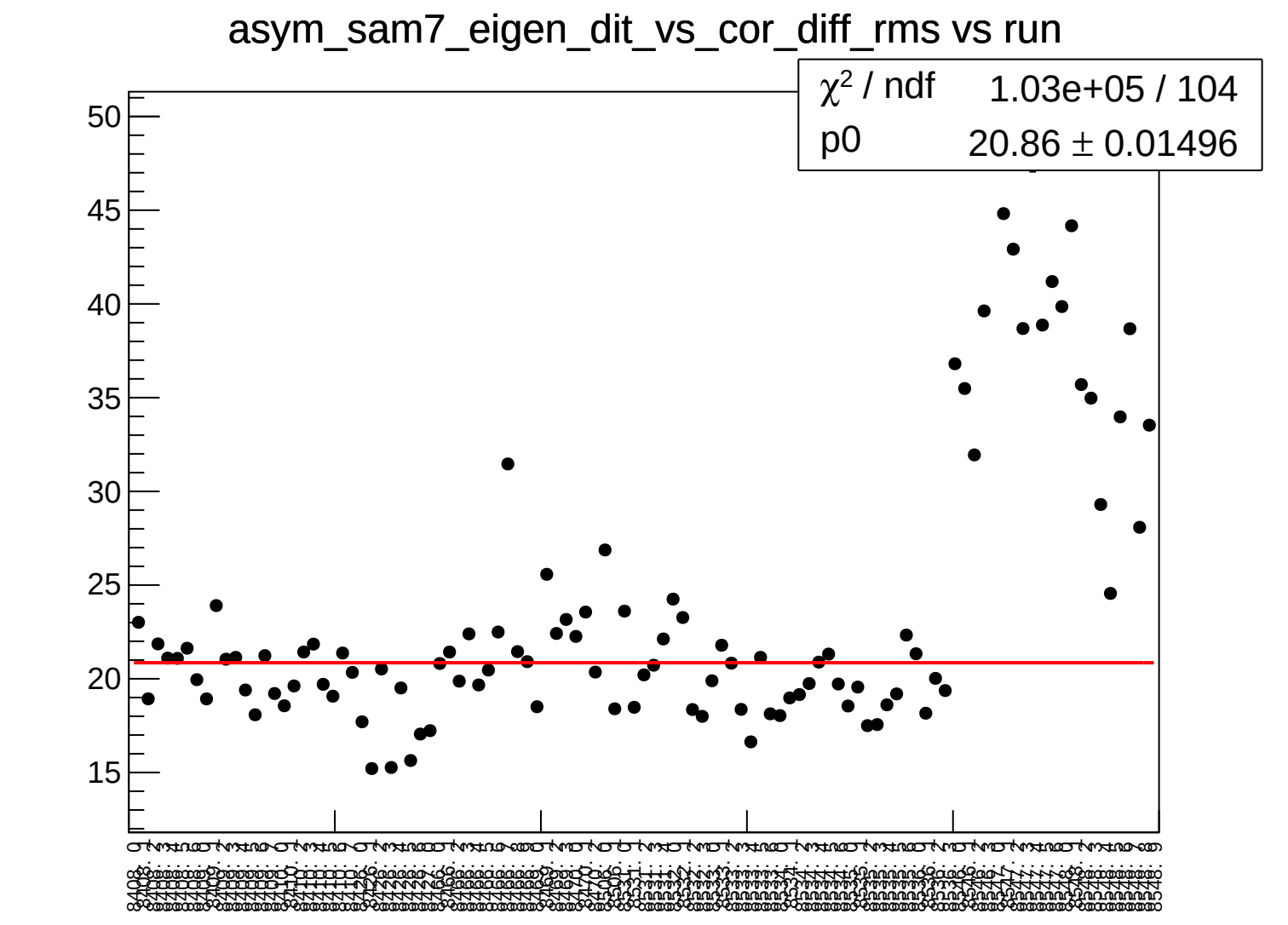

asym_sam7_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.81 / 104
p0 −0.03693 ± 0.02116
0.5
0
−0.5
−1
−1.5
pull
Entries 105
Mean 146.4
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 105
Mean −0.04811
Std Dev 0.9738
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

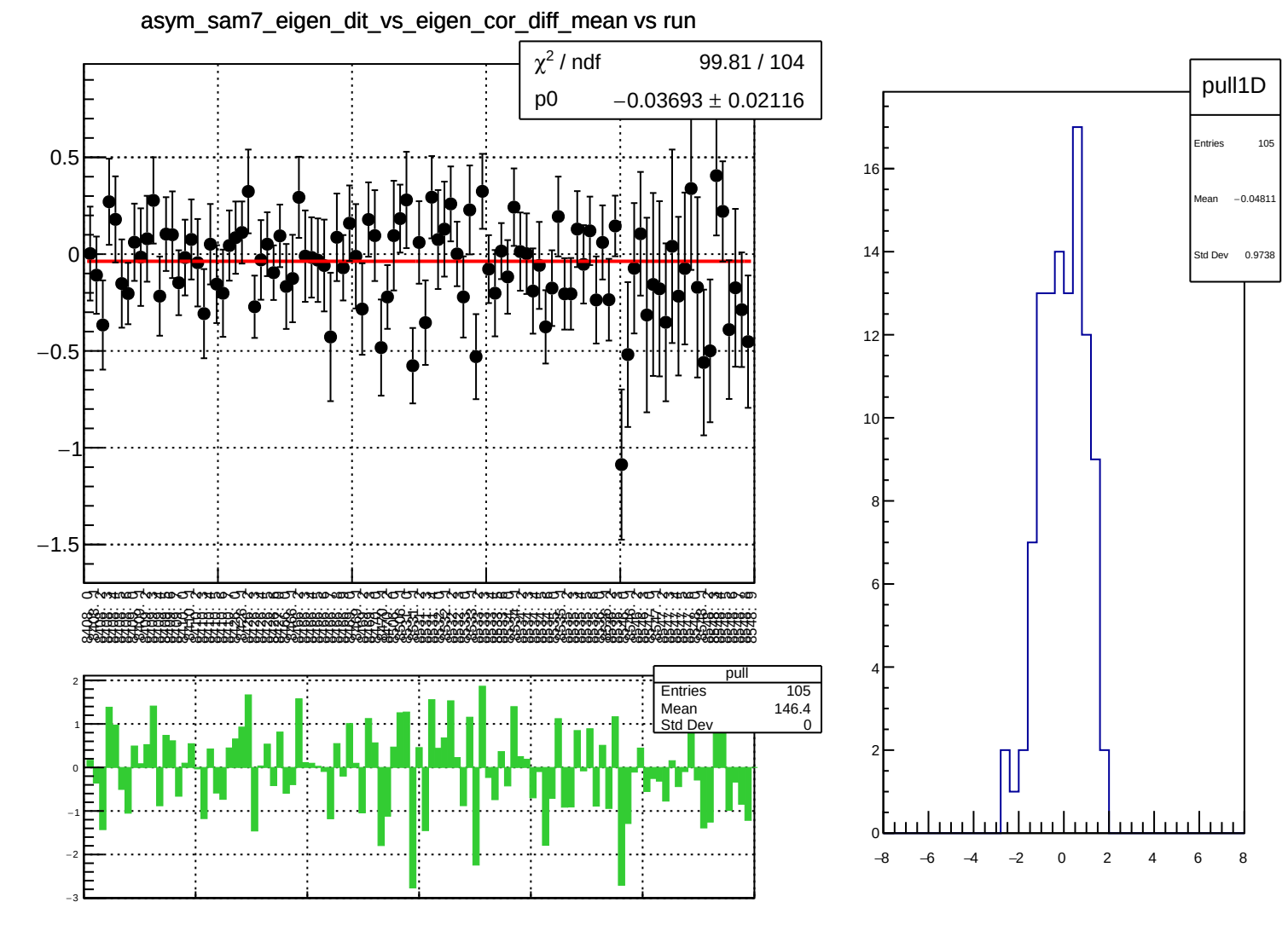

asym_sam7_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.03e+05 / 104
p0 20.86 ± 0.01496
50
45
40
35
30
25
20
15

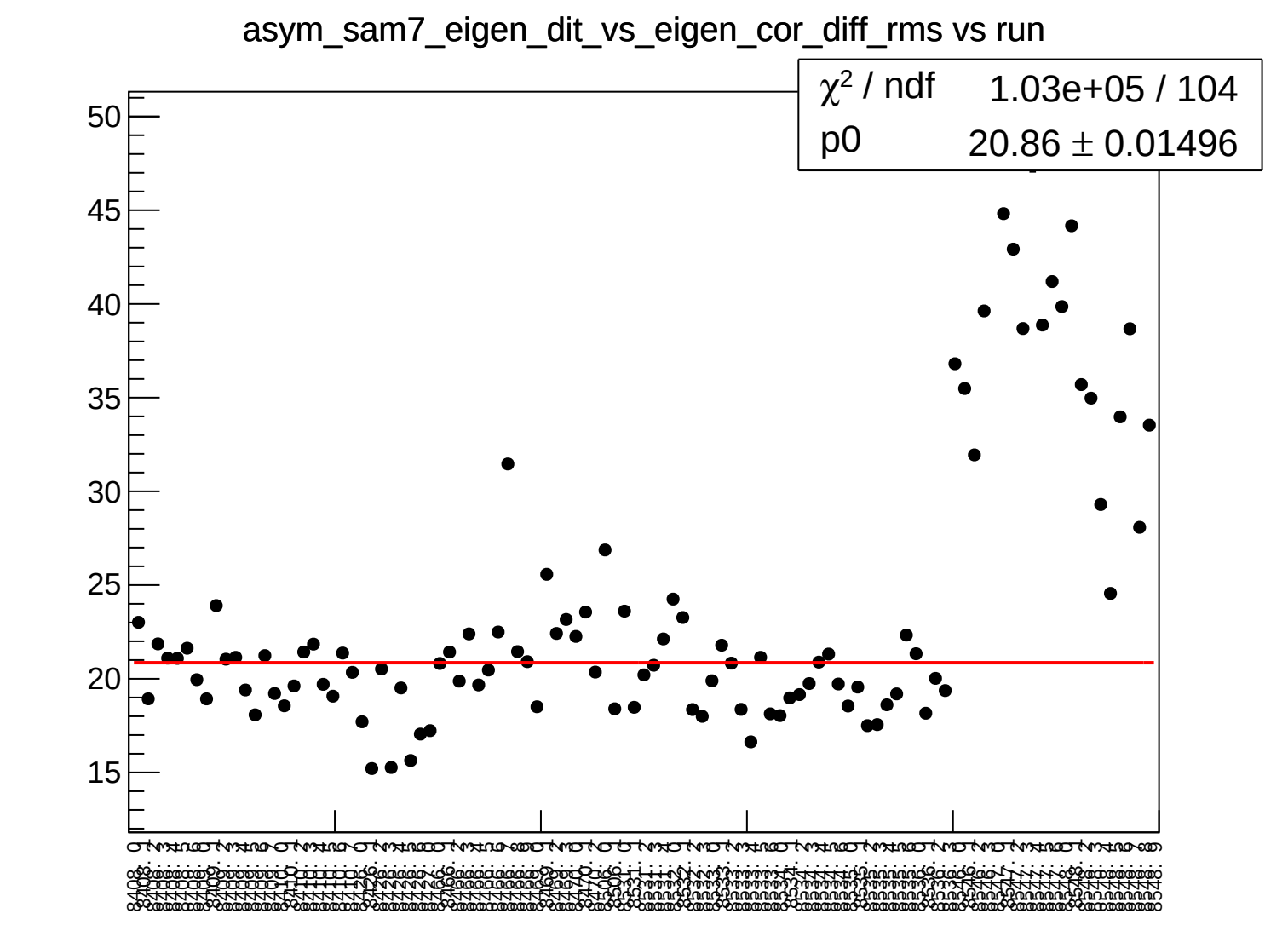

asym_sam7_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 128 / 104
p0 1.036e−06 ± 8.946e−07
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 105
Mean 90.8
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.1015
Std Dev 1.099
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

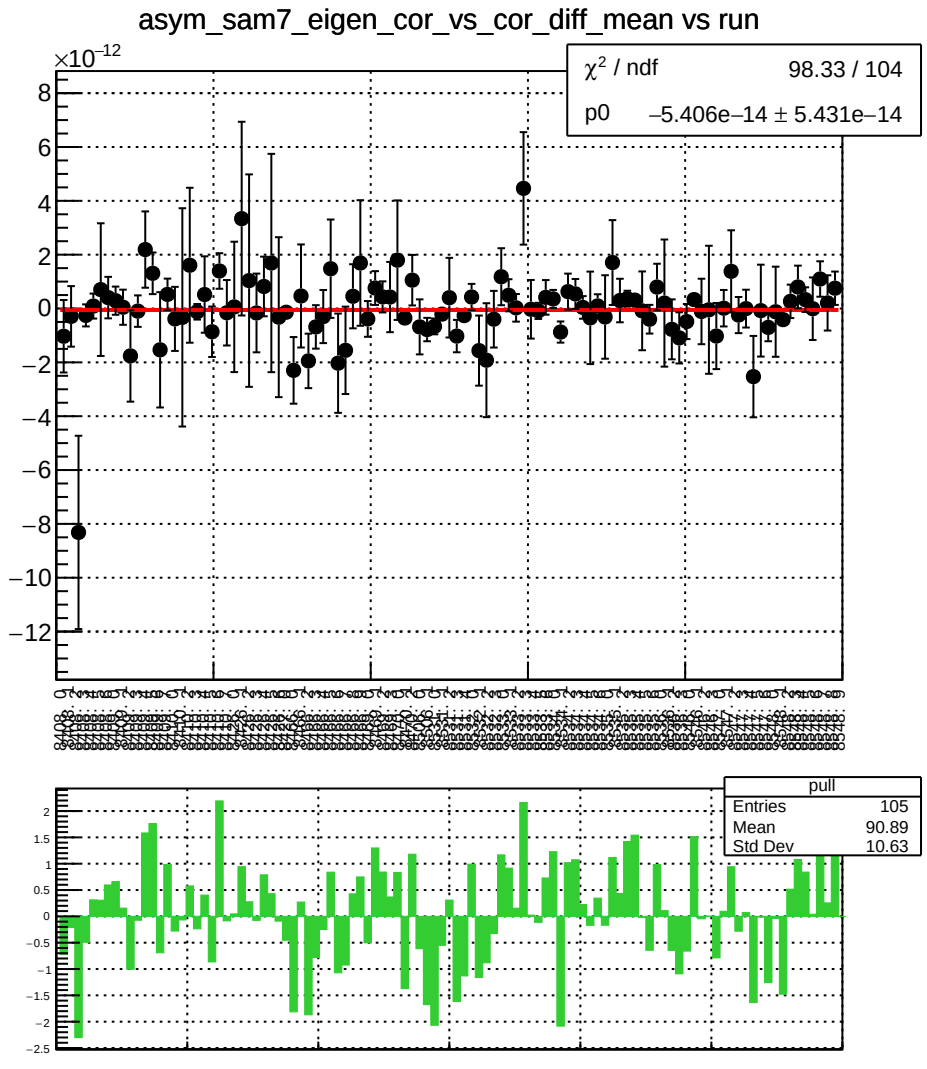

asym_sam7_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.312e+05 / 104
p0 0.0007786 ± 6.326e−07
0.005
0.004
0.003
0.002
0.001

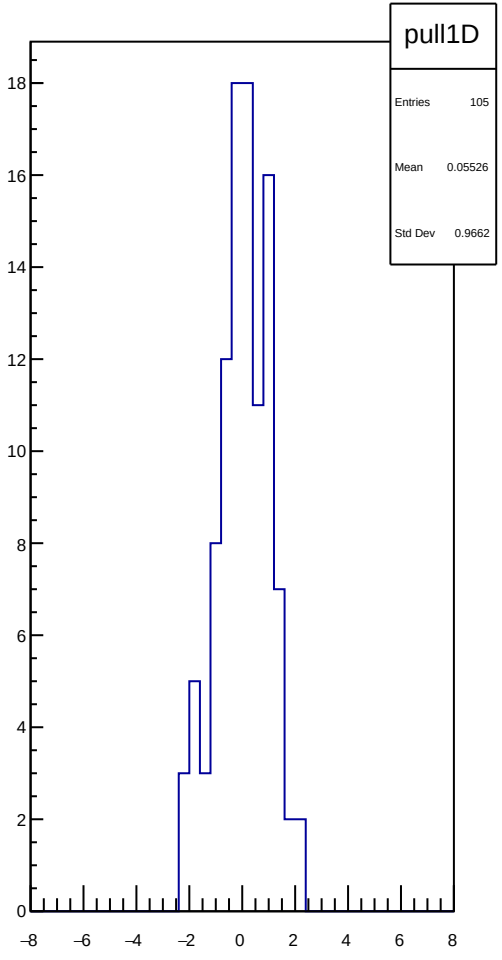

asym_sam7_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 99.81 / 104
p0 −0.03693 ± 0.02116
0.5
0
−0.5
−1
−1.5
pull
Entries 105
Mean 146.4
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 105
Mean −0.04811
Std Dev 0.9738
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

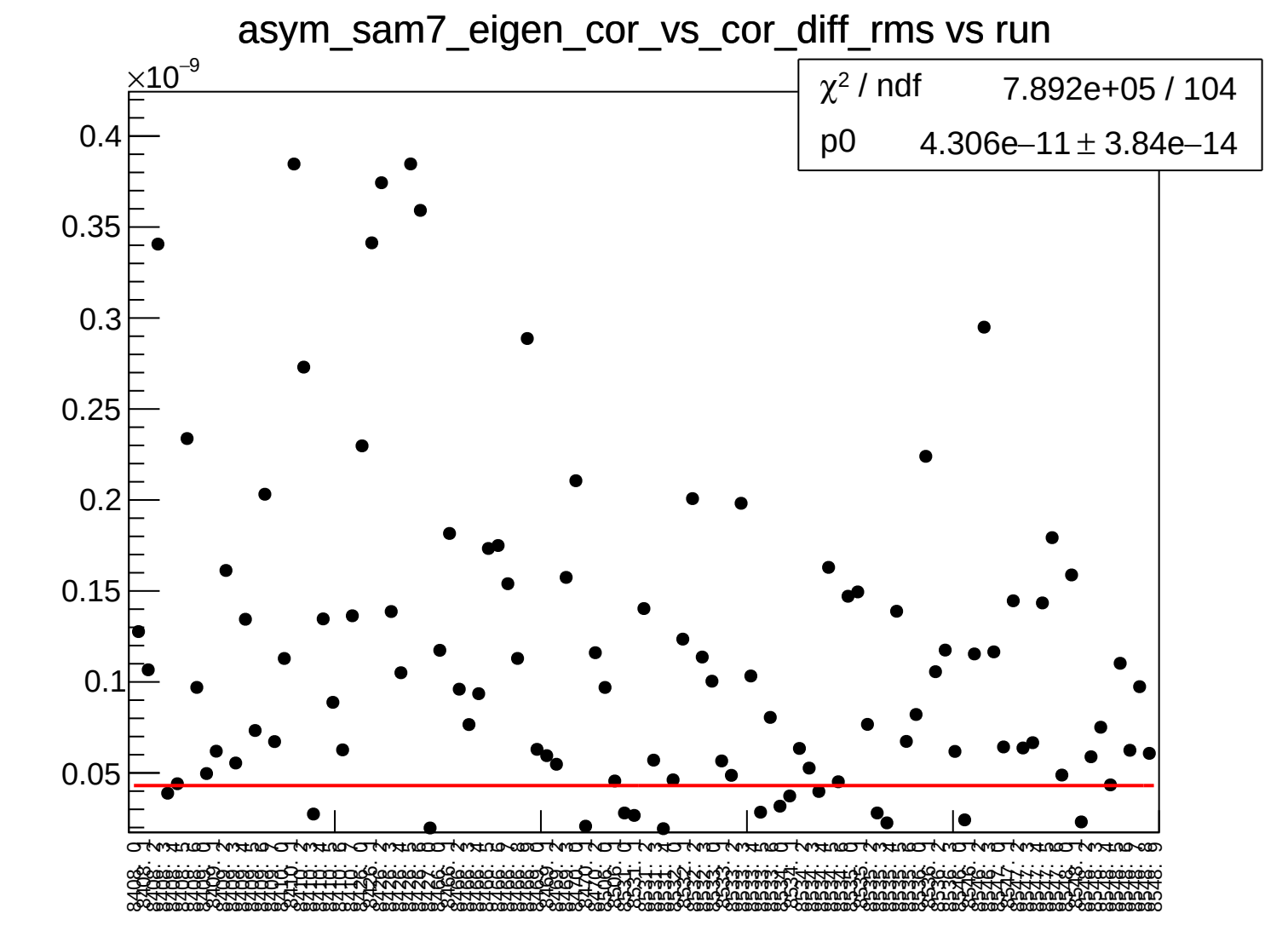

asym_sam7_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.03e+05 / 104
p0 20.86 ± 0.01496
50
45
40
35
30
25
20
15

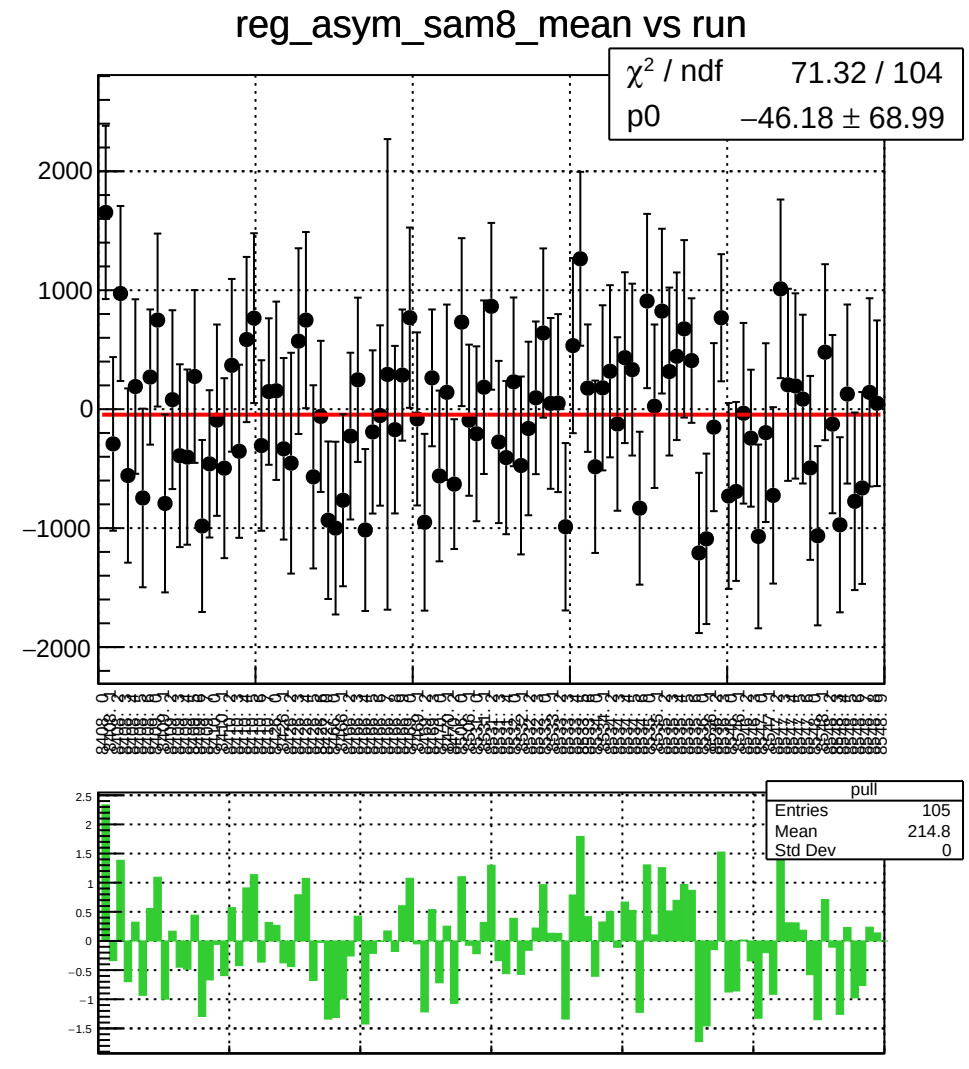

asym_sam7_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 99.81 / 104
p0 −0.03693 ± 0.02116
0.5
0
−0.5
−1
−1.5
pull
Entries 105
Mean 146.4
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 105
Mean −0.04811
Std Dev 0.9738
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

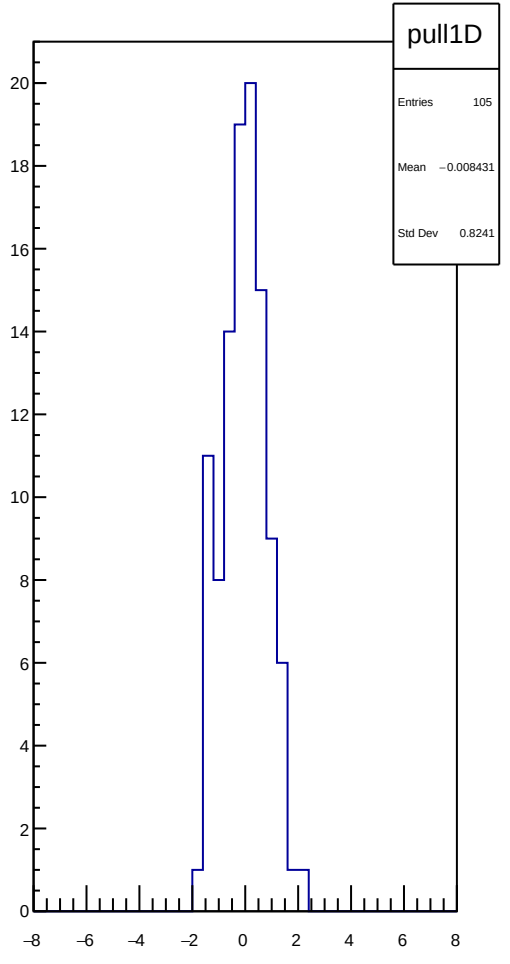

asym_sam7_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.03e+05 / 104
p0 20.86 ± 0.01496
50
45
40
35
30
25
20
15

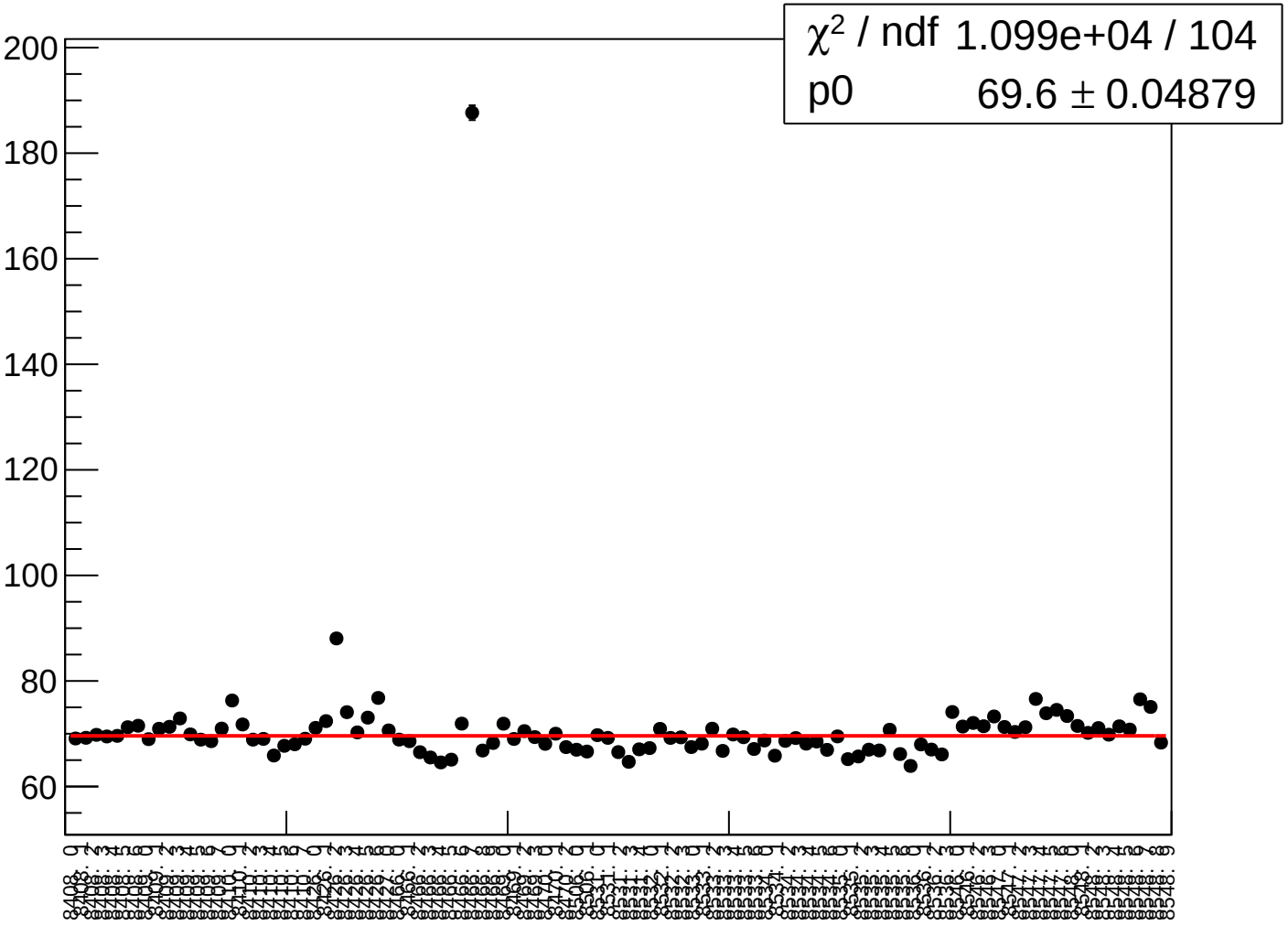

asym_sam7_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 98.33 / 104
p0 −5.406e−14 ± 5.431e−14
pull
Entries 105
Mean 90.89
Std Dev 10.63

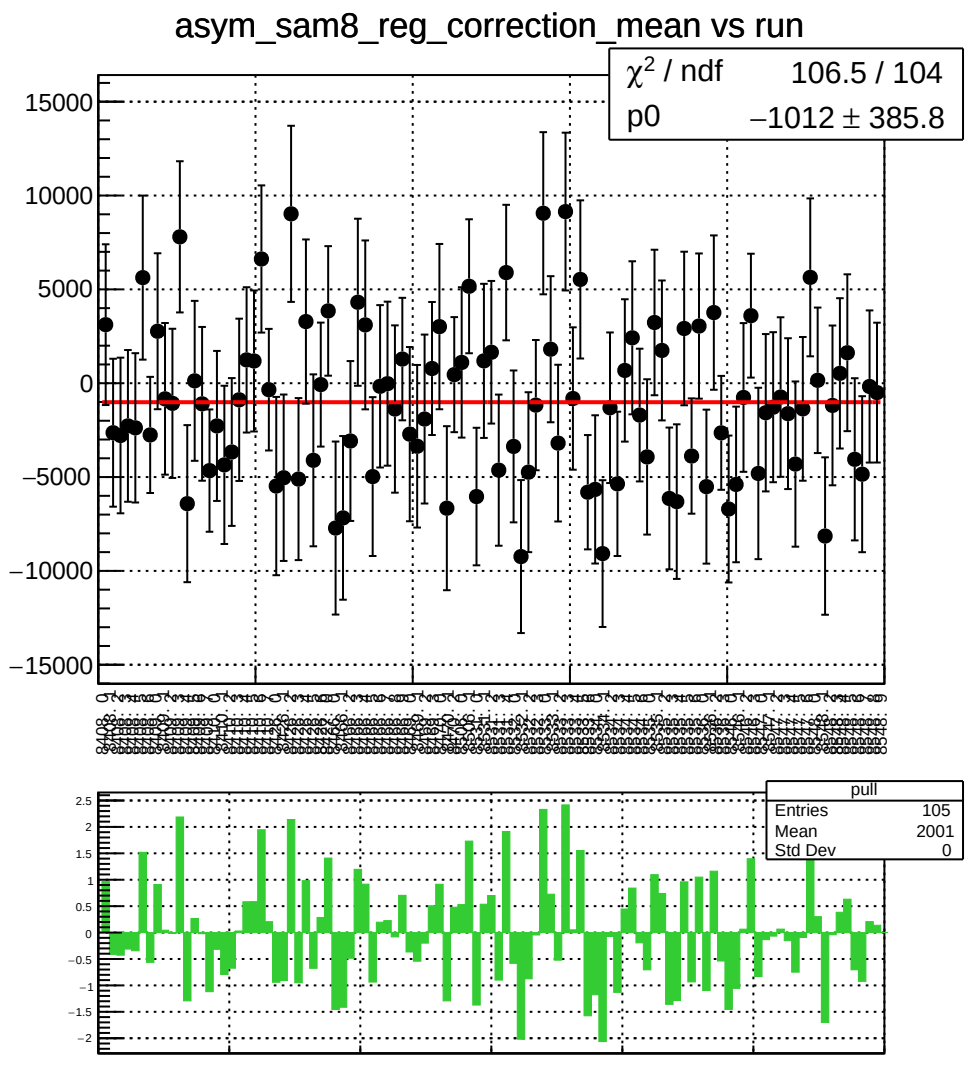

pull1D
Entries 105
Mean 0.05526
Std Dev 0.9662

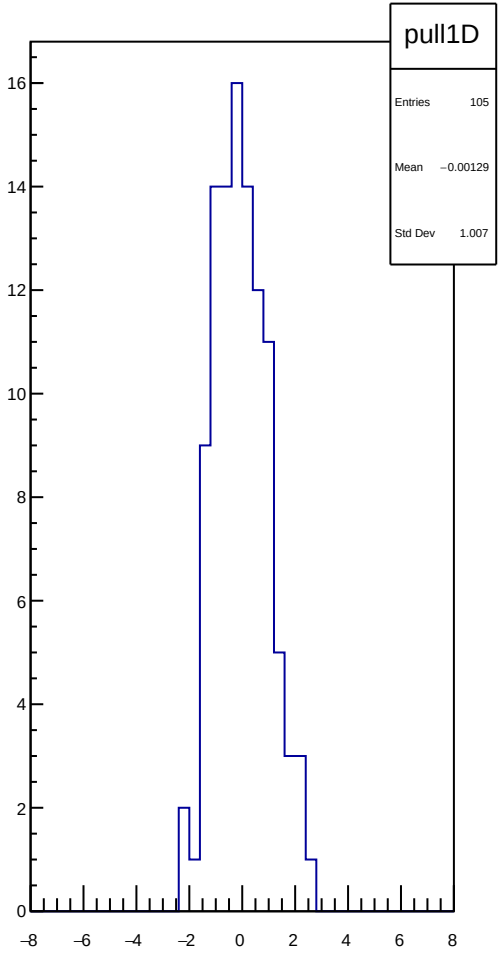

asym_sam7_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.892e+05 / 104
p0 4.306e−11 ± 3.84e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

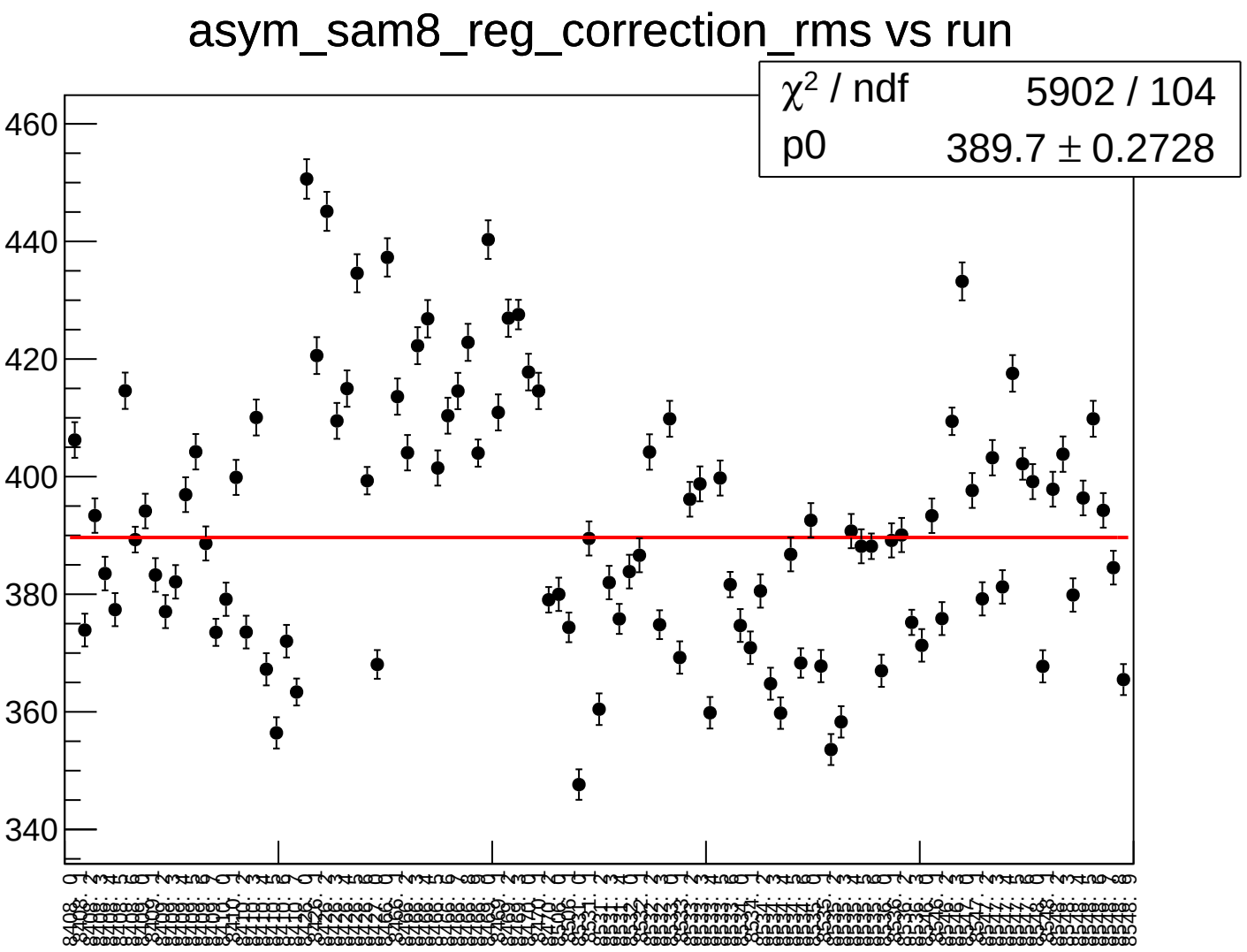

reg_asym_sam8_mean vs run
χ² / ndf 71.32 / 104
p0 −46.18 ± 68.99
2000
1000
0
−1000
−2000
pull
Entries 105
Mean 214.8
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

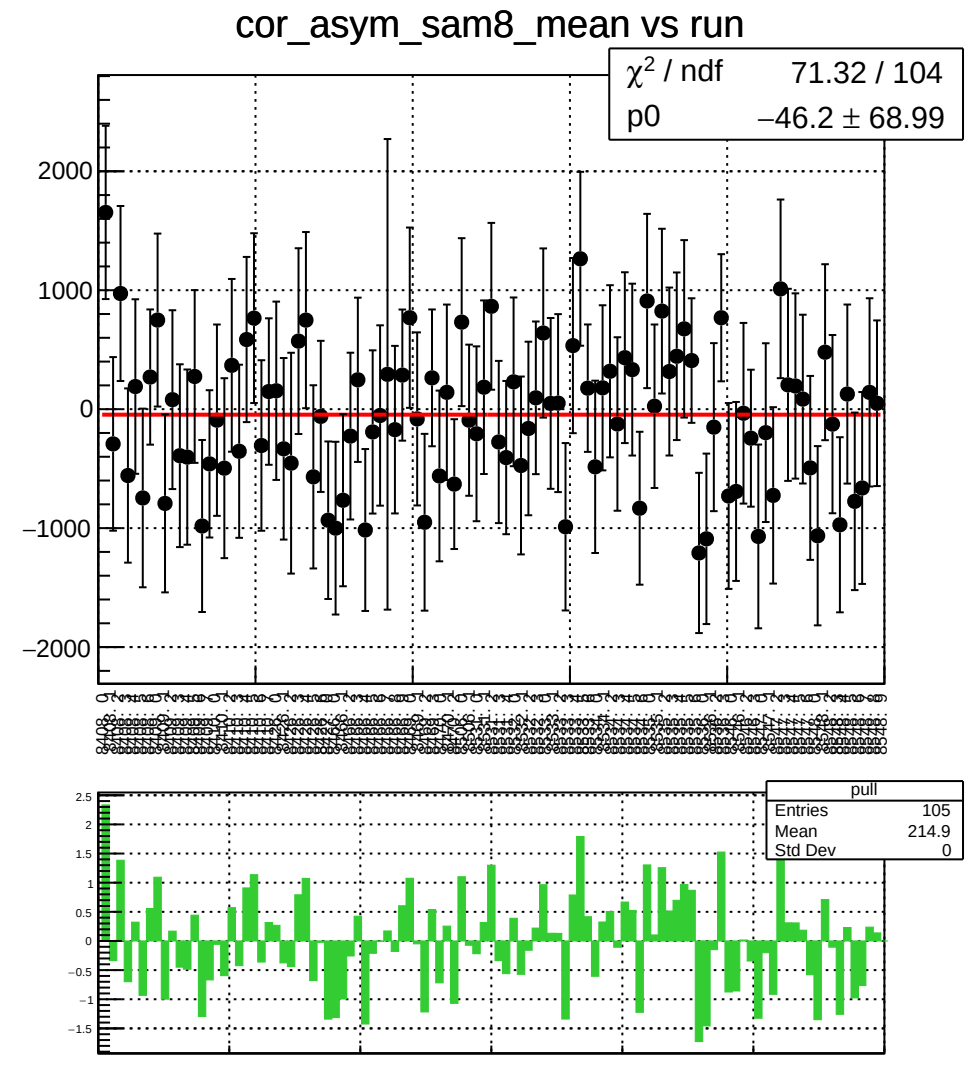

pull1D
Entries 105
Mean −0.008431
Std Dev 0.8241
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

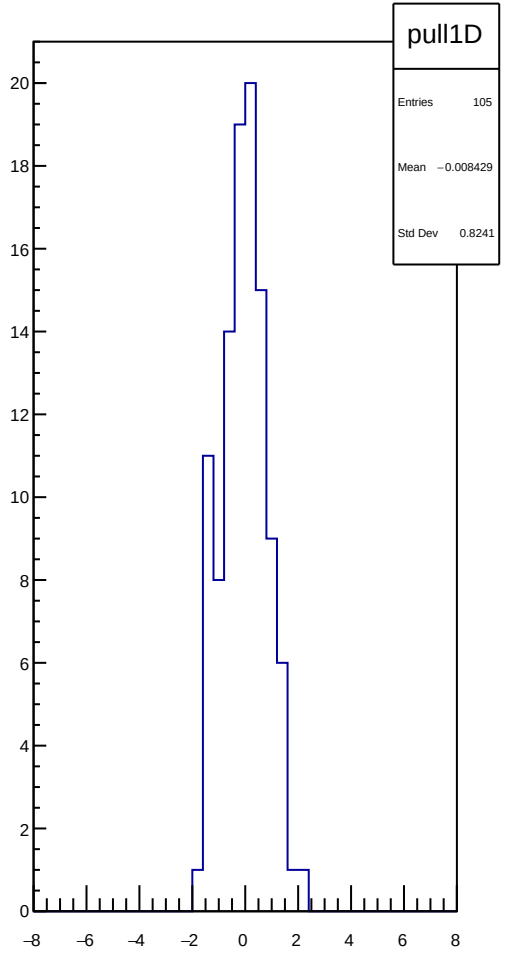

reg_asym_sam8_rms vs run
χ² / ndf 1.099e+04 / 104
p0 69.6 ± 0.04879
200
180
160
140
120
100
80
60

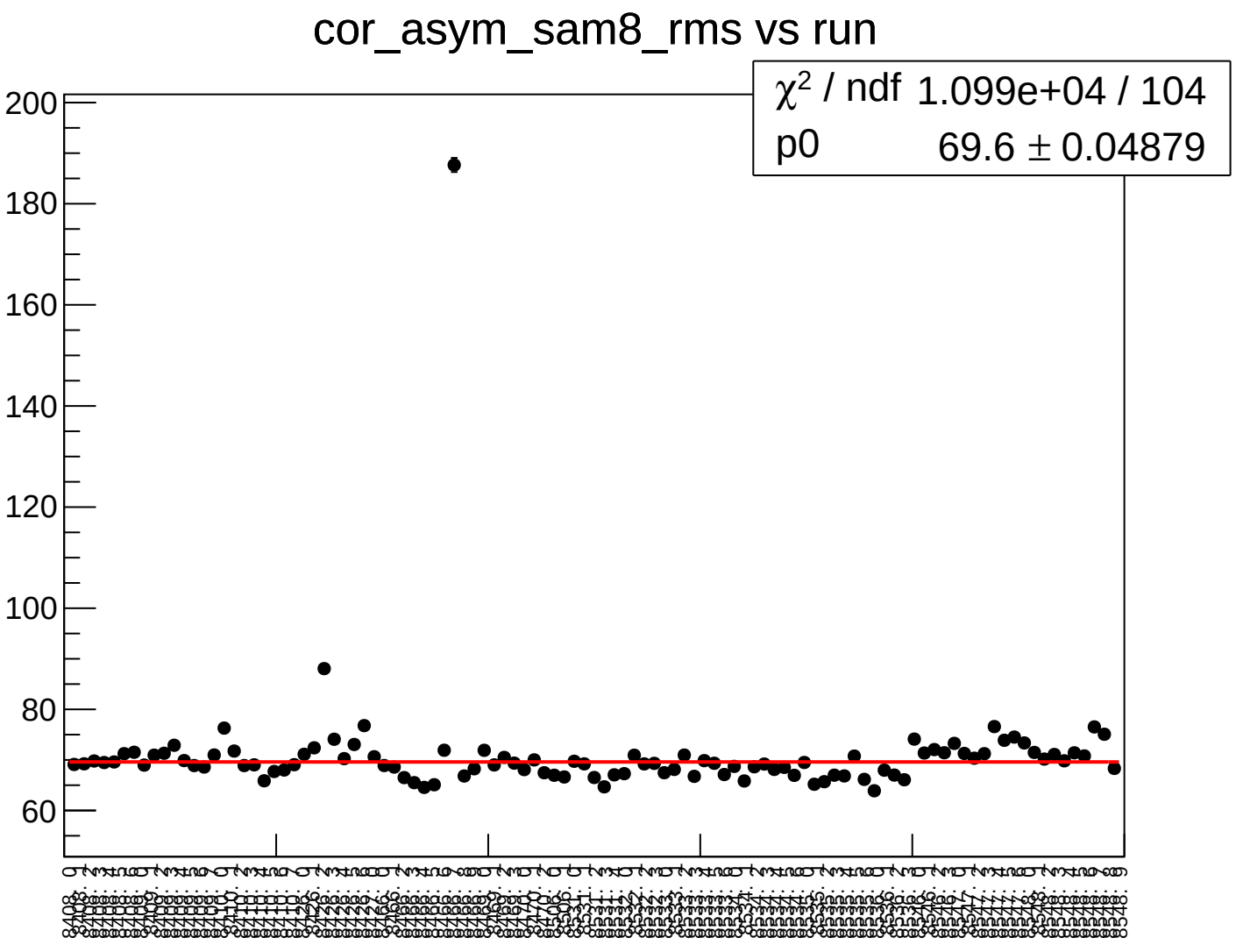

asym_sam8_reg_correction_mean vs run
χ² / ndf 106.5 / 104
p0 −1012 ± 385.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 105
Mean 2001
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

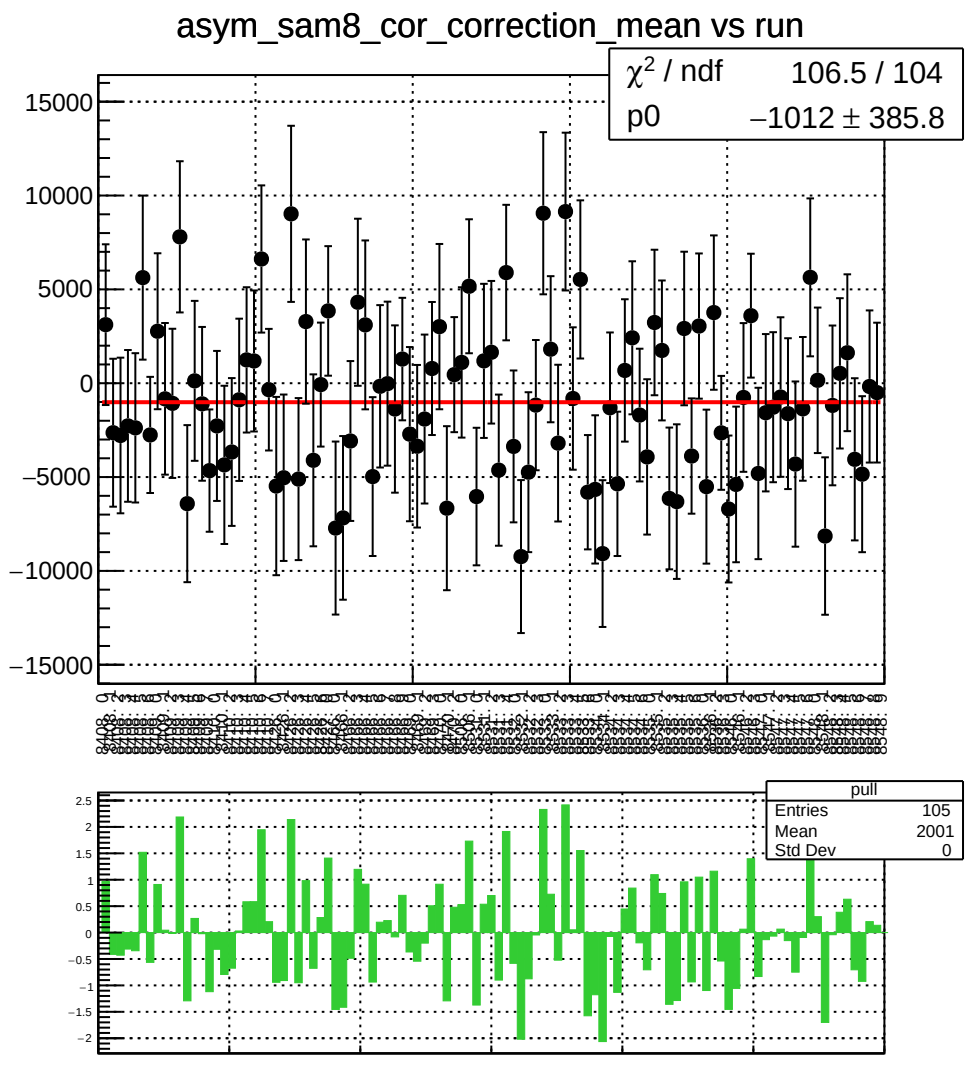

pull1D
Entries 105
Mean −0.00129
Std Dev 1.007
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

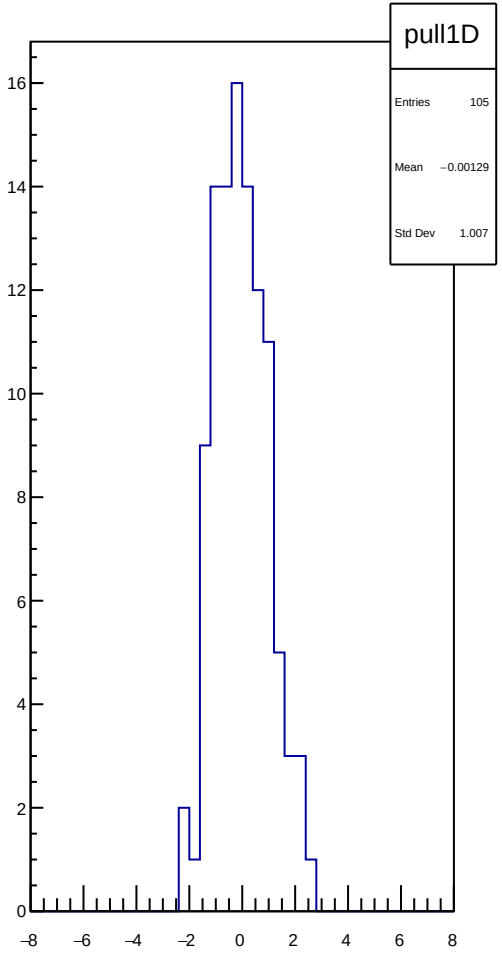

asym_sam8_reg_correction_rms vs run
χ² / ndf 5902 / 104
p0 389.7 ± 0.2728
460
440
420
400
380
360
340

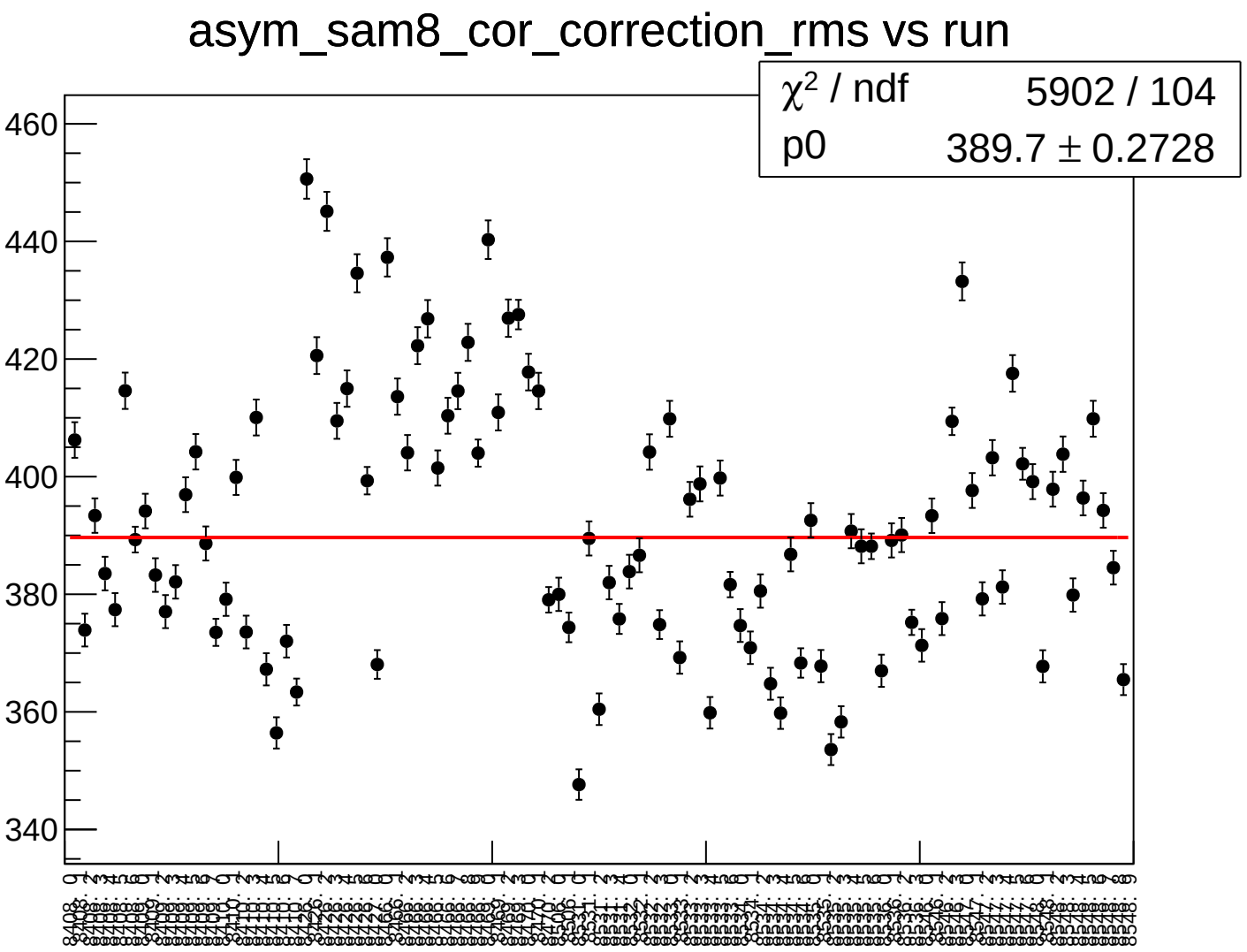

cor_asym_sam8_mean vs run
χ² / ndf 71.32 / 104
p0 −46.2 ± 68.99
2000
1000
0
−1000
−2000
pull
Entries 105
Mean 214.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

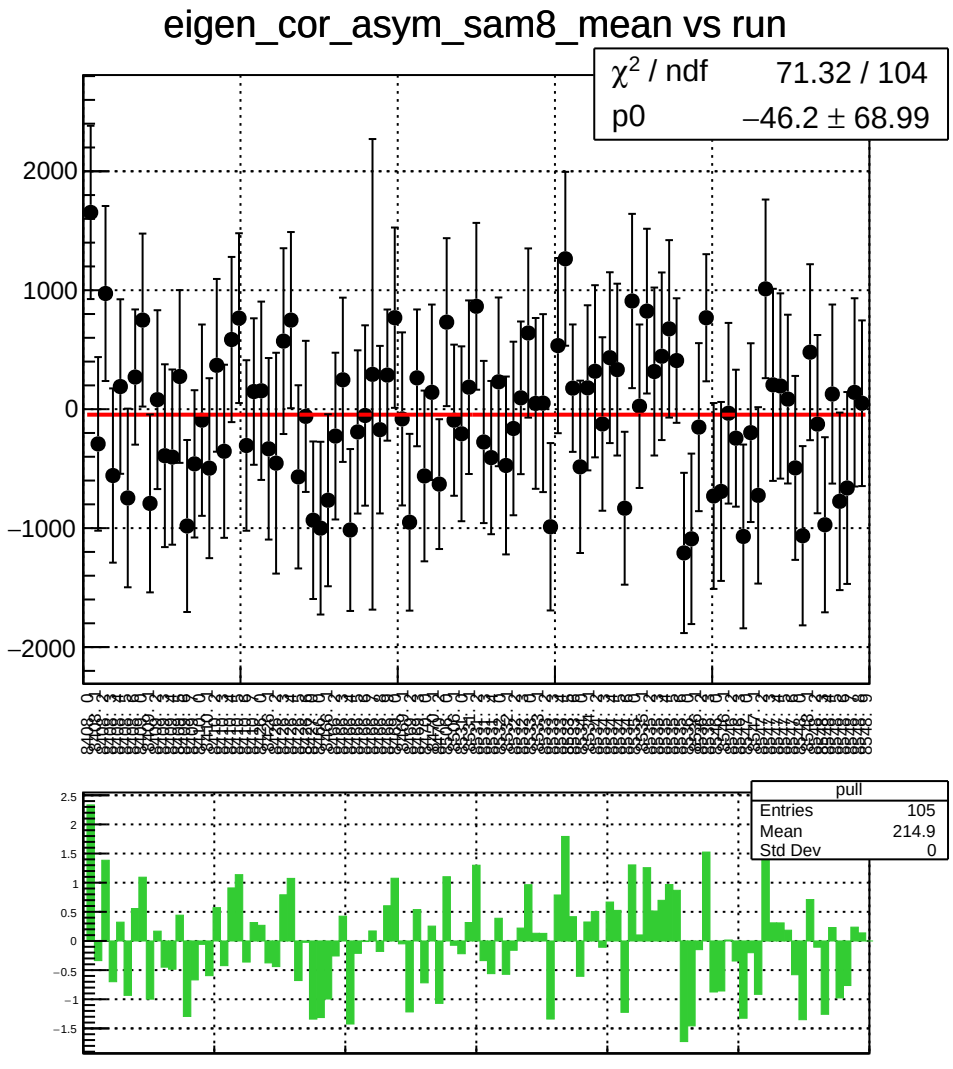

pull1D
Entries 105
Mean −0.008429
Std Dev 0.8241
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

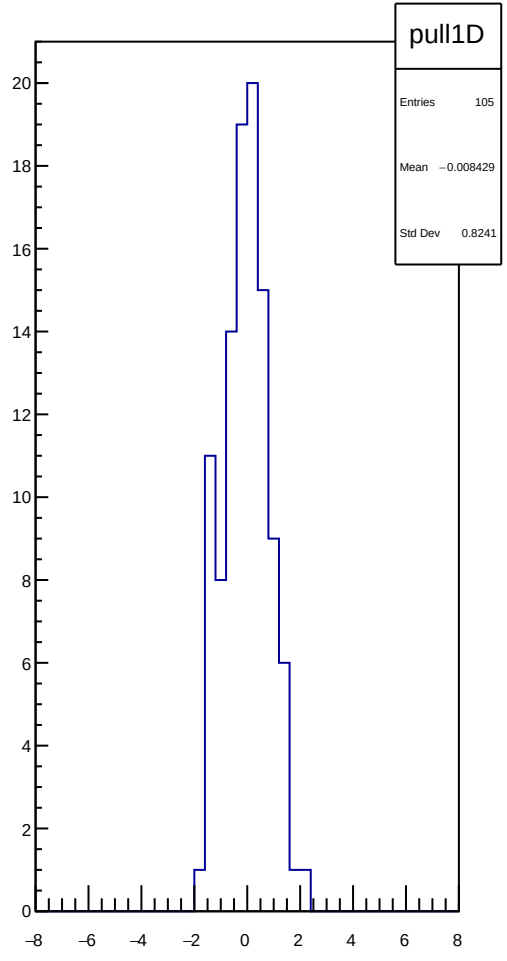

cor_asym_sam8_rms vs run
χ² / ndf 1.099e+04 / 104
p0 69.6 ± 0.04879
200
180
160
140
120
100
80
60

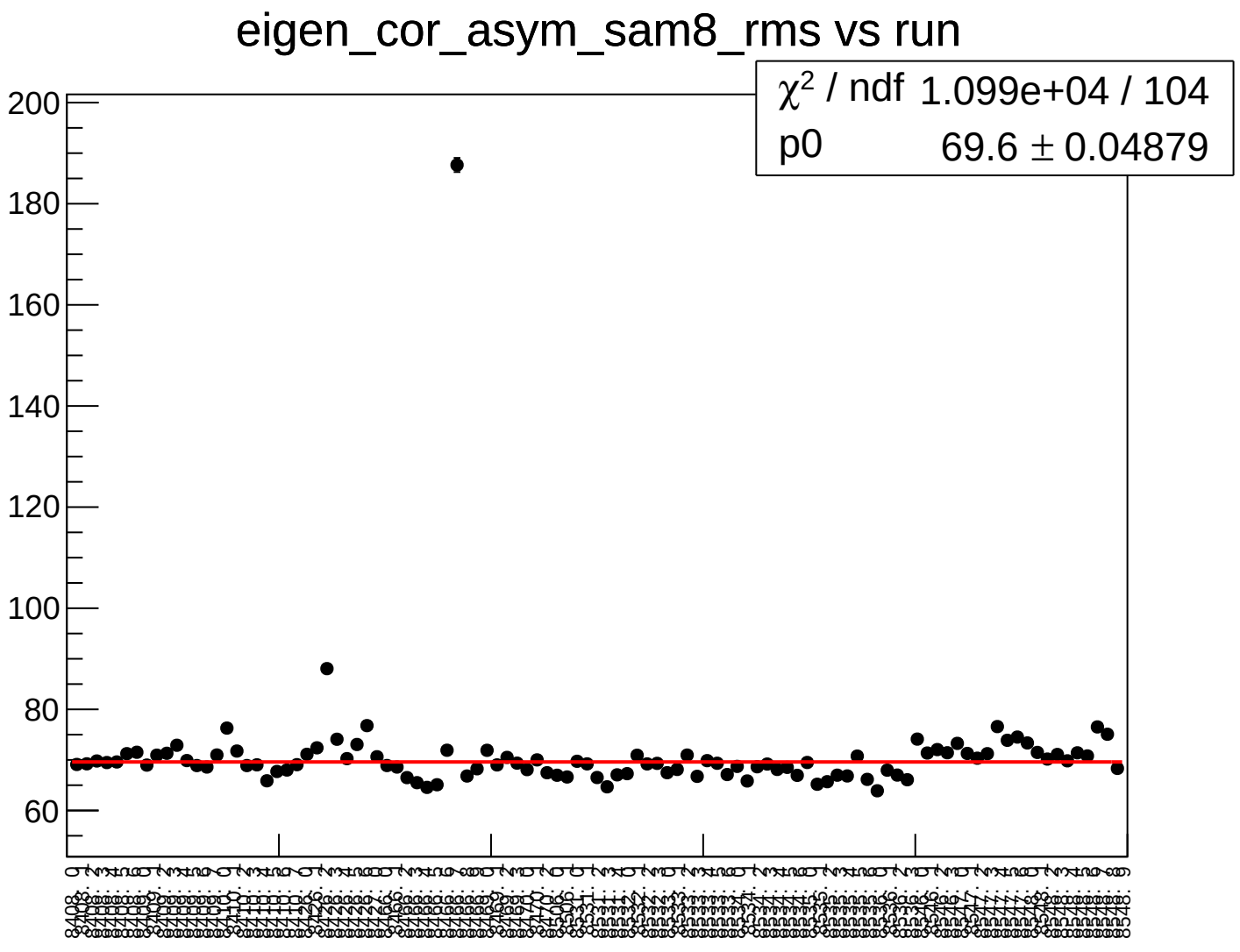

asym_sam8_cor_correction_mean vs run
χ² / ndf 106.5 / 104
p0 −1012 ± 385.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 105
Mean 2001
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

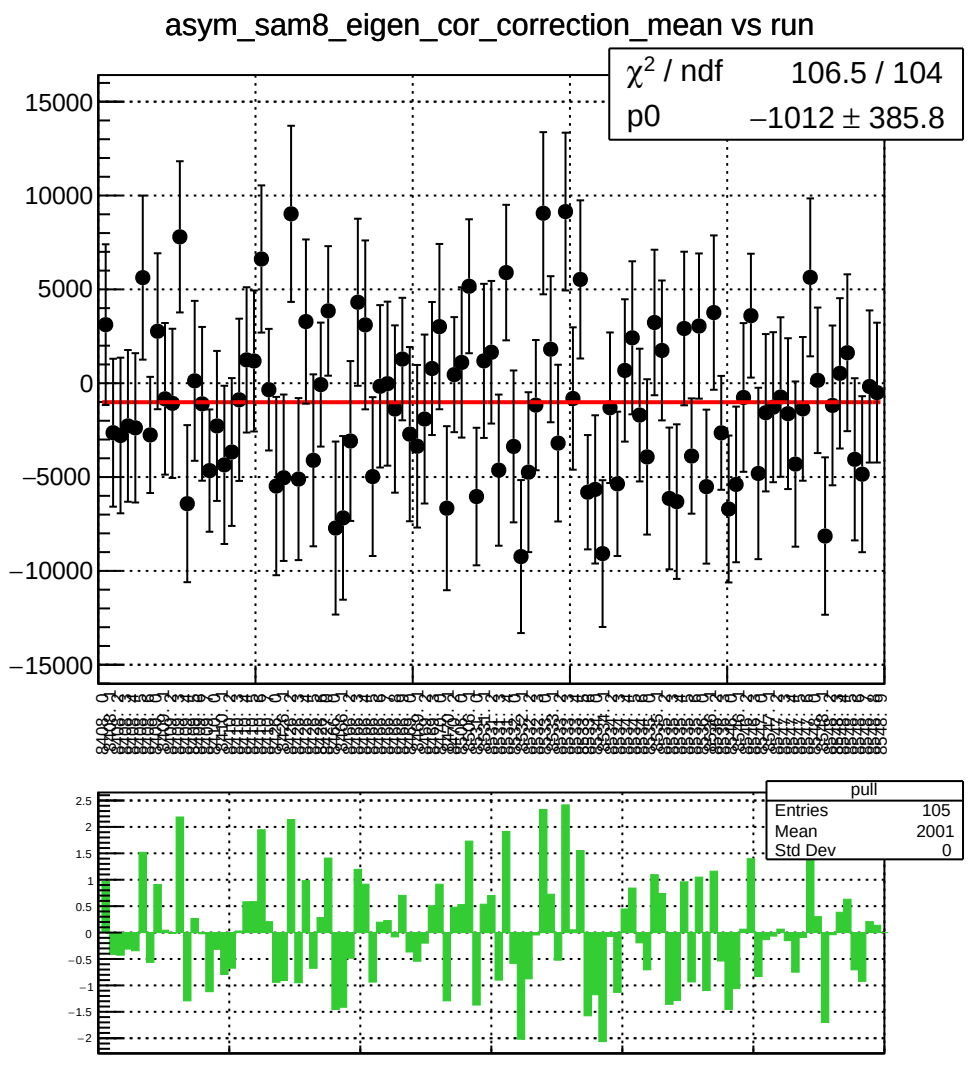

pull1D
Entries 105
Mean −0.00129
Std Dev 1.007
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

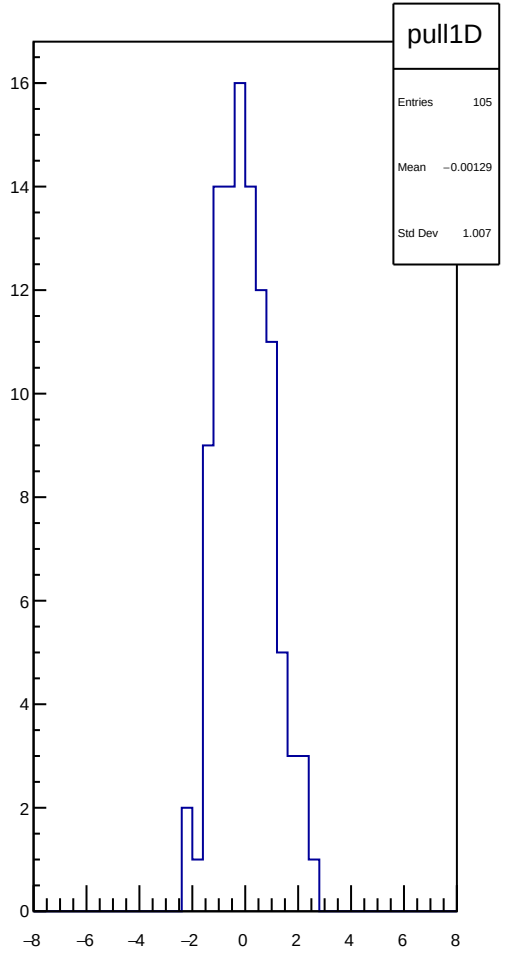

asym_sam8_cor_correction_rms vs run
χ^2 / ndf 5902 / 104
p0 389.7 ± 0.2728
460
440
420
400
380
360
340

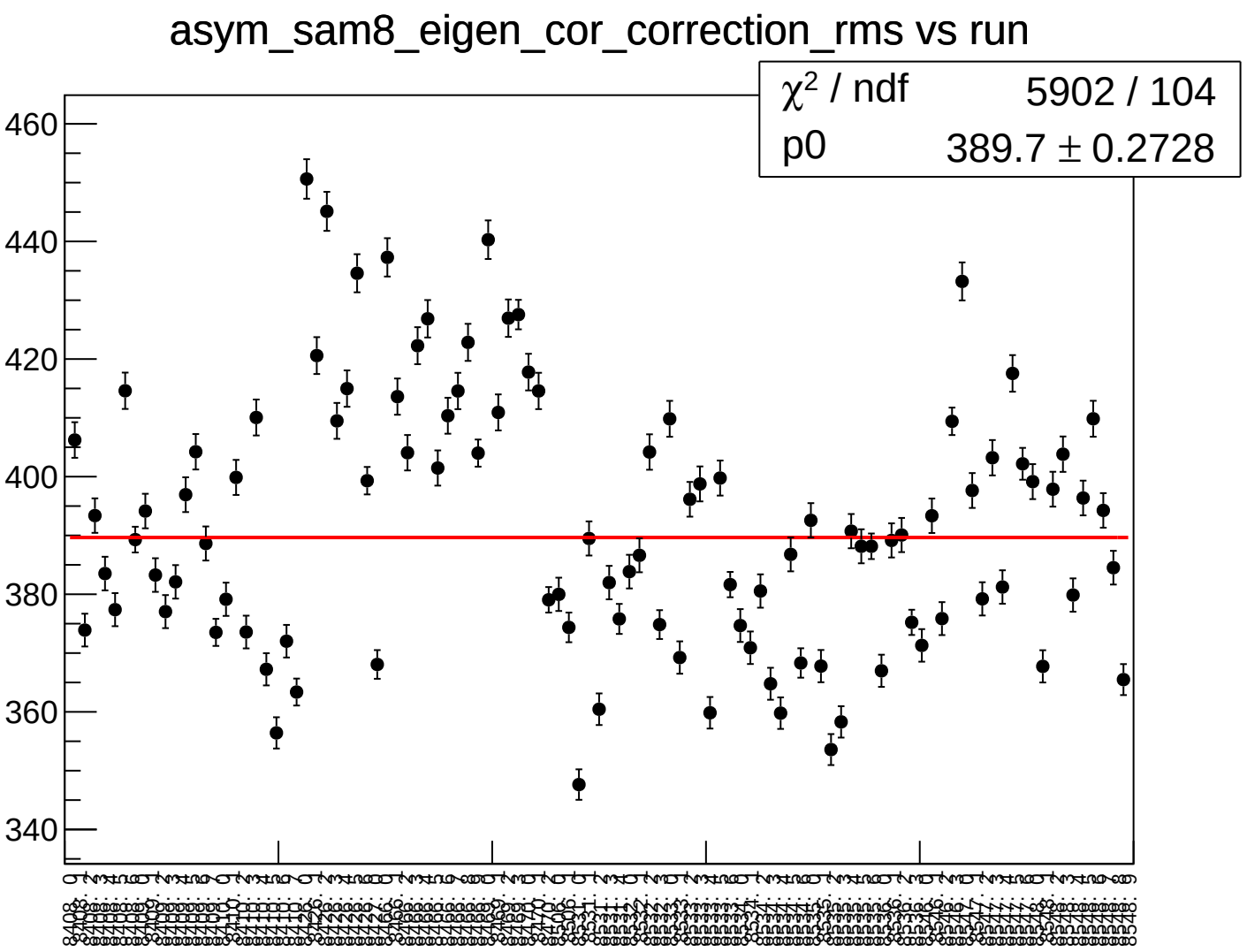

eigen_cor_asym_sam8_mean vs run
χ² / ndf 71.32 / 104
p0 −46.2 ± 68.99
2000
1000
0
−1000
−2000
pull
Entries 105
Mean 214.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

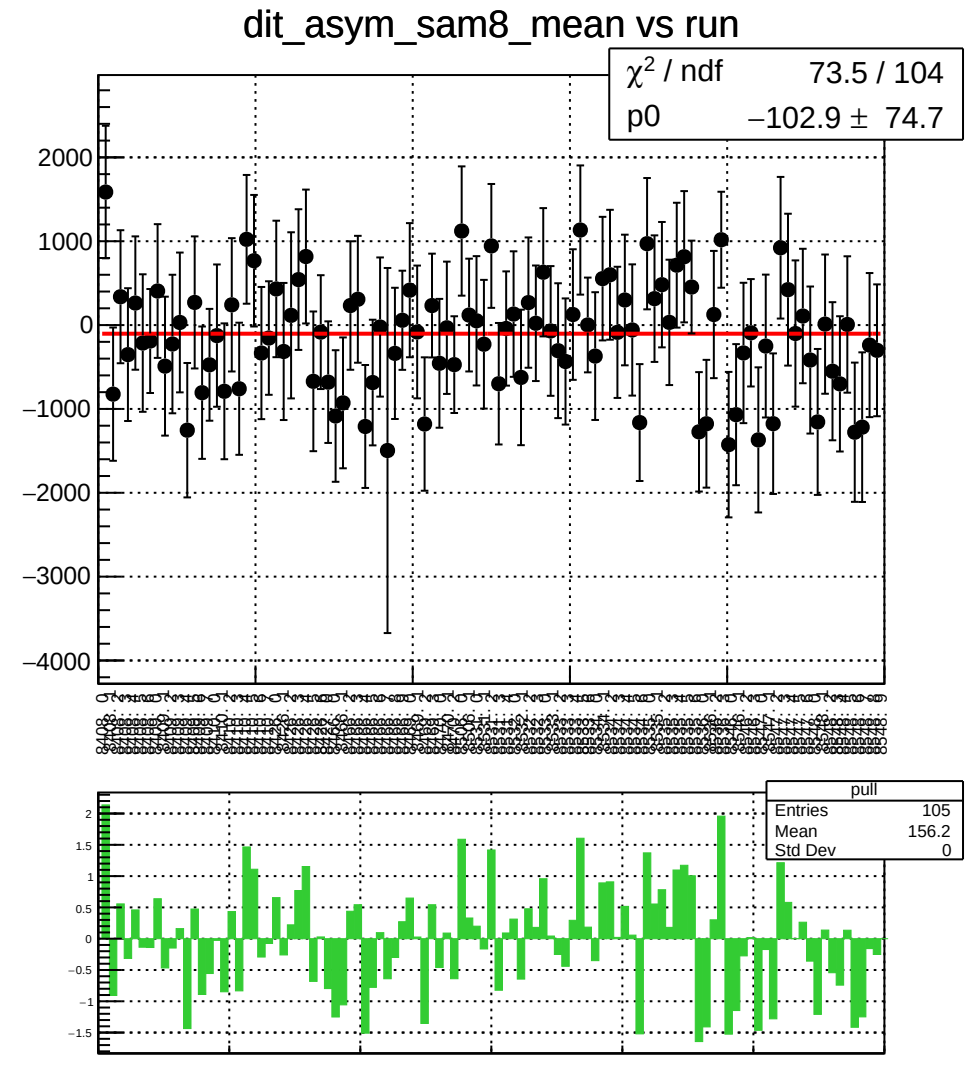

pull1D
Entries 105
Mean −0.008429
Std Dev 0.8241
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

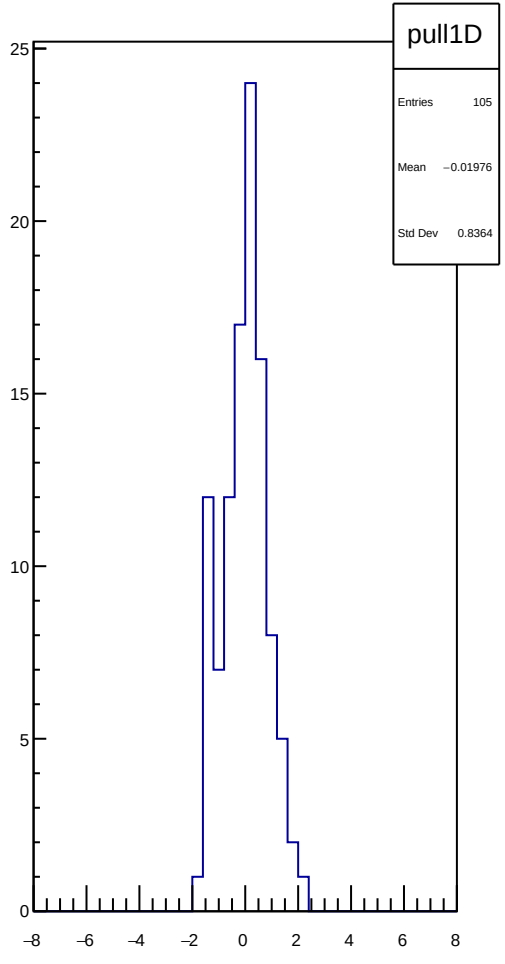

eigen_cor_asym_sam8_rms vs run
χ^2 / ndf 1.099e+04 / 104
p0 69.6 ± 0.04879
200
180
160
140
120
100
80
60

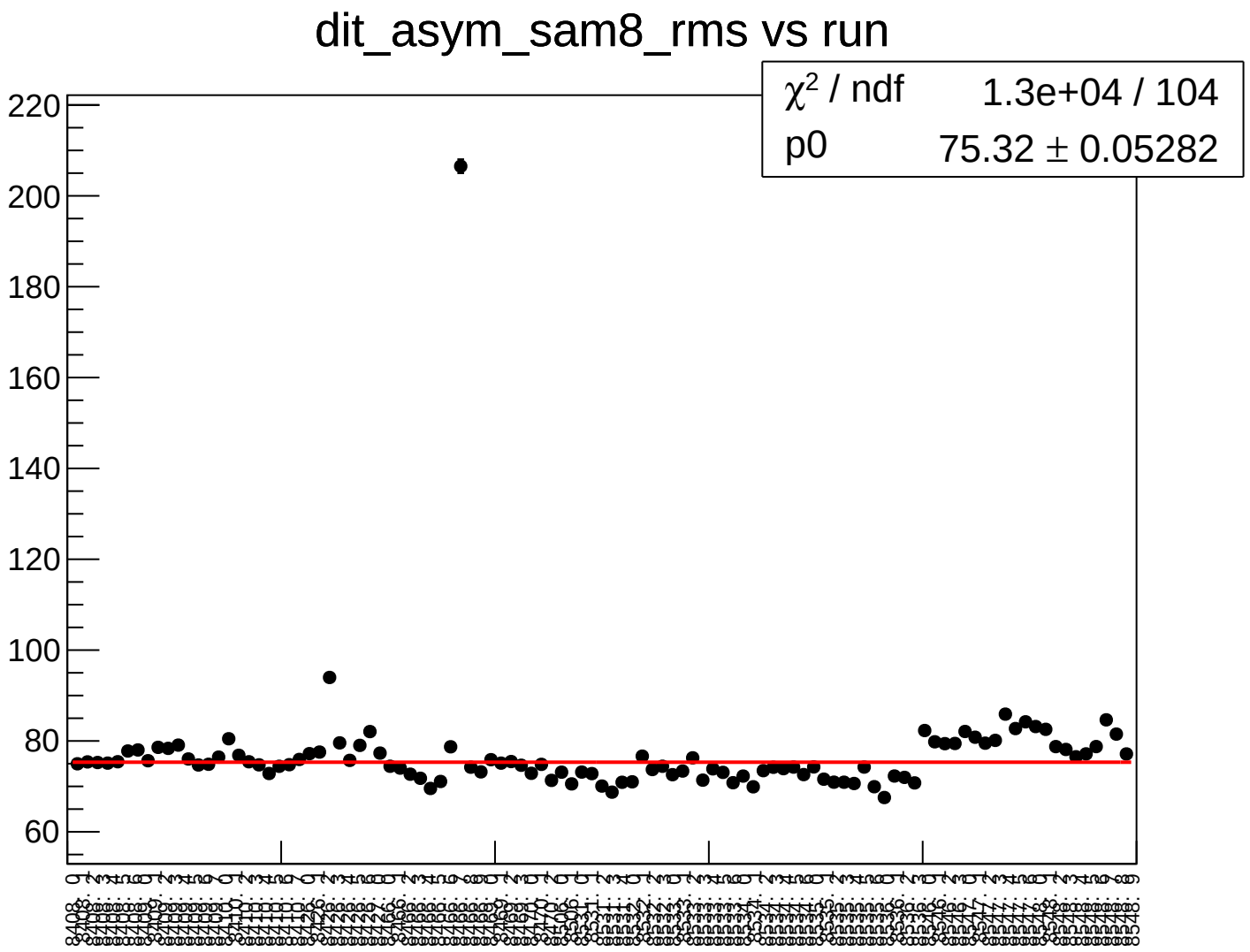

asym_sam8_eigen_cor_correction_mean vs run
χ² / ndf 106.5 / 104
p0 −1012 ± 385.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 105
Mean 2001
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

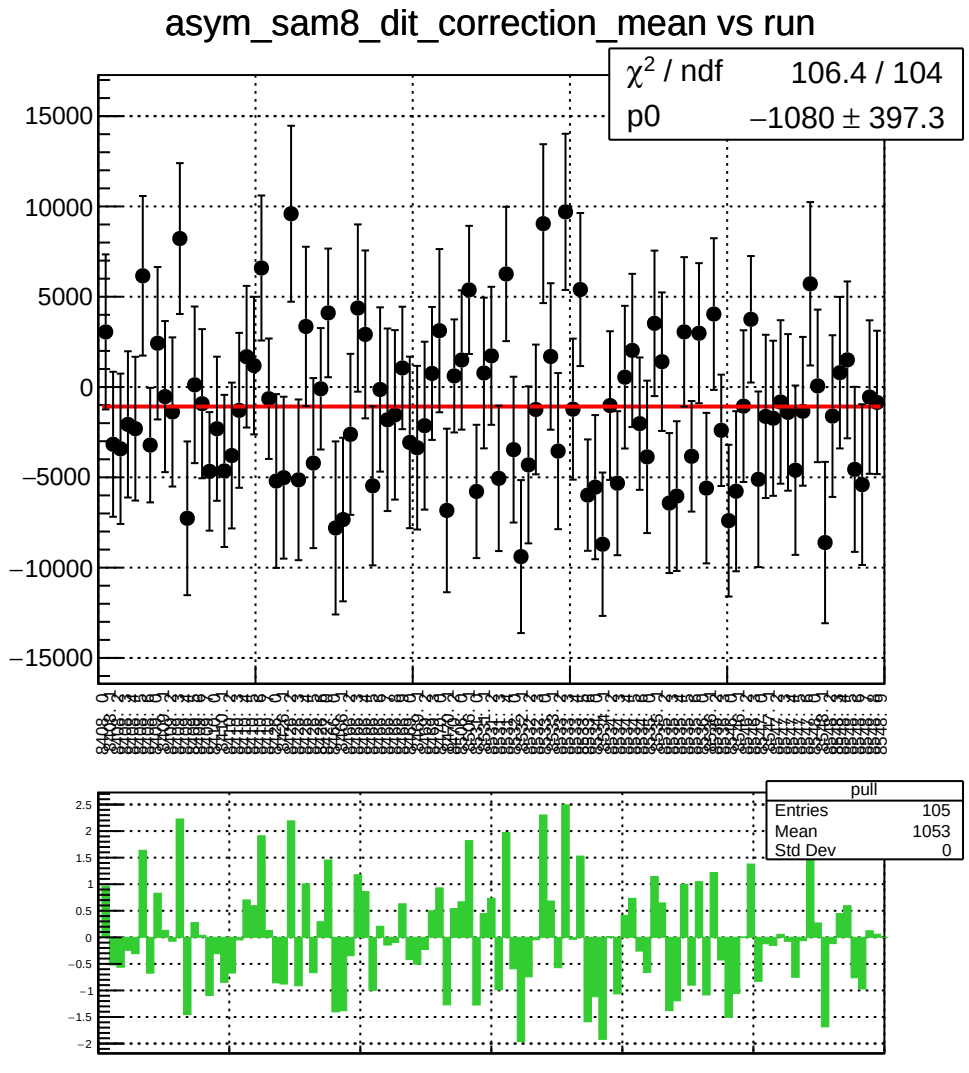

pull1D
Entries 105
Mean −0.00129
Std Dev 1.007
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

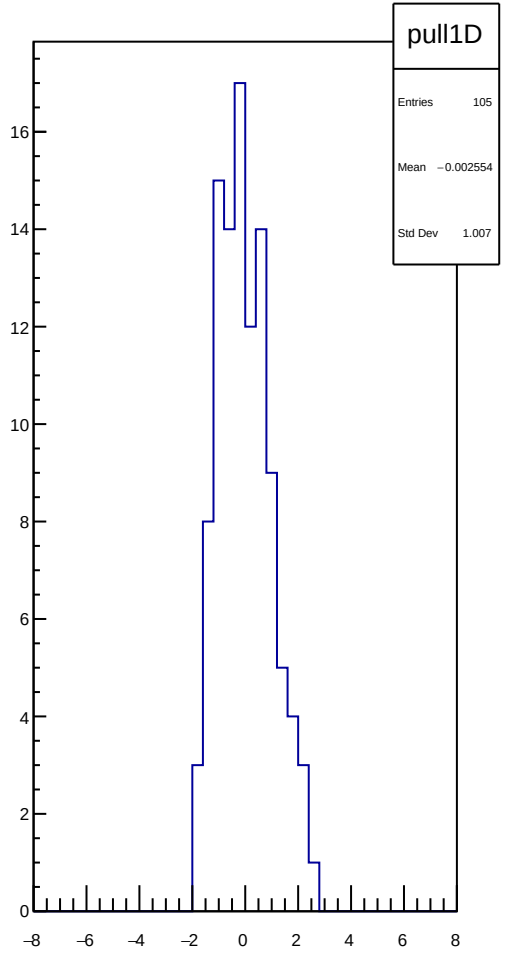

asym_sam8_eigen_cor_correction_rms vs run
χ^2 / ndf 5902 / 104
p0 389.7 ± 0.2728
460
440
420
400
380
360
340

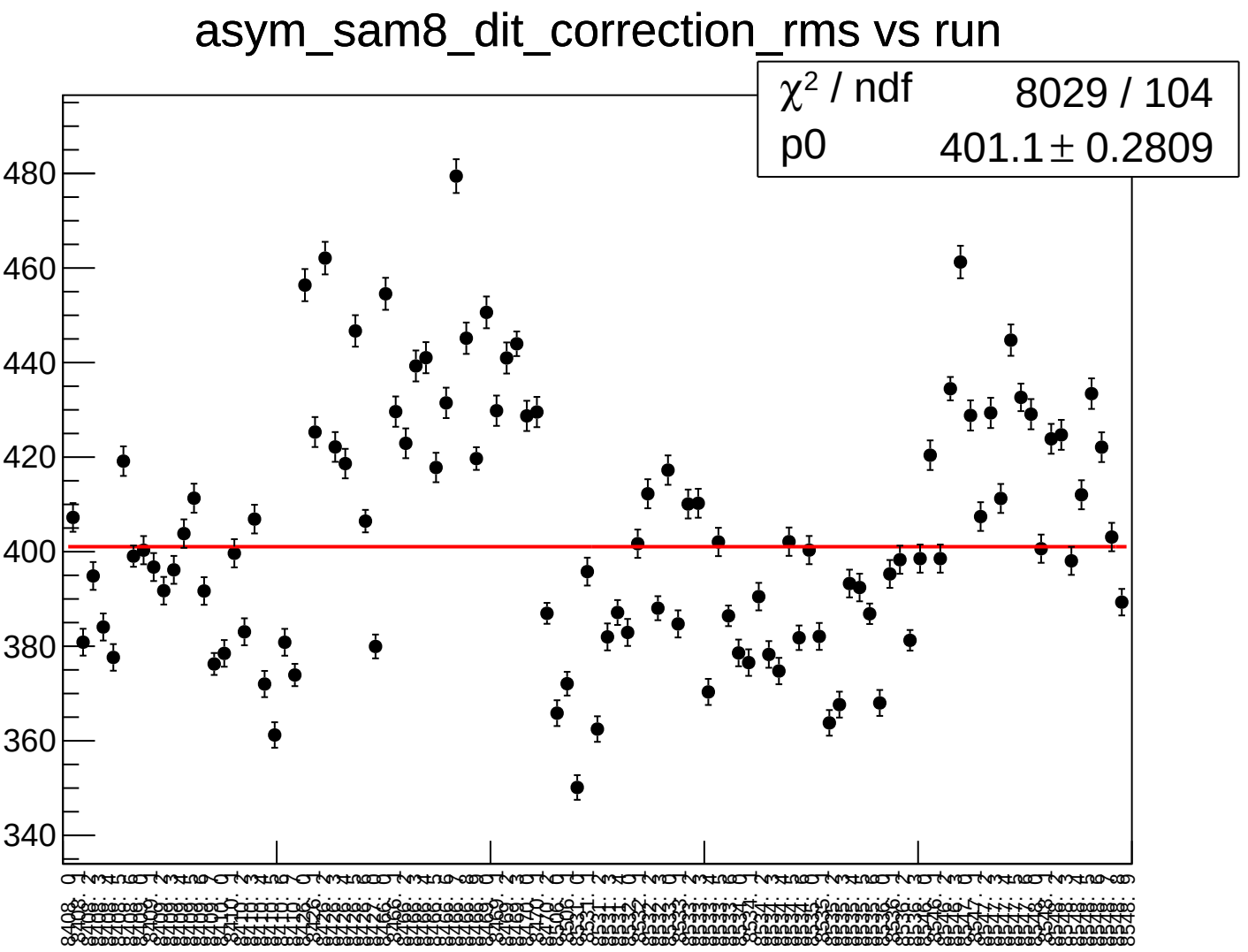

dit_asym_sam8_mean vs run
χ² / ndf 73.5 / 104
p0 −102.9 ± 74.7
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 105
Mean 156.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

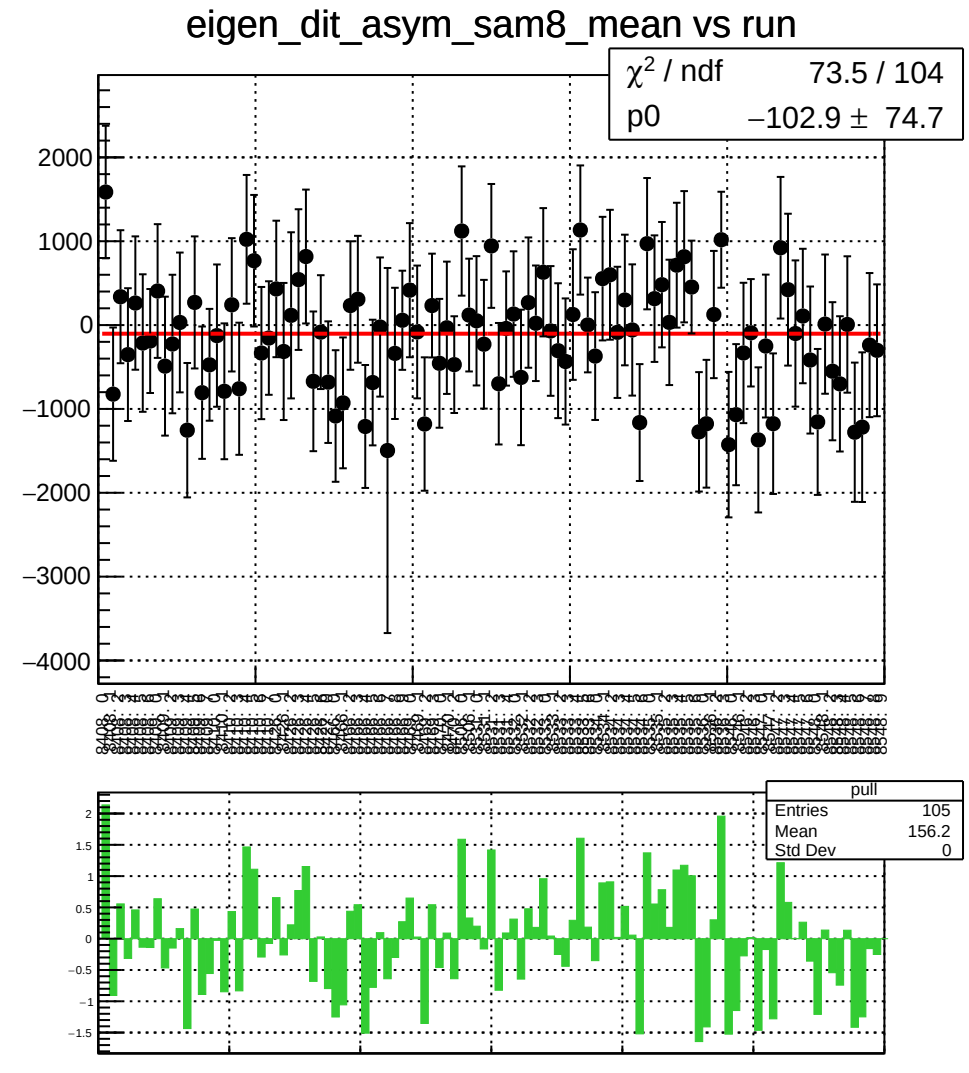

pull1D
Entries 105
Mean −0.01976
Std Dev 0.8364
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

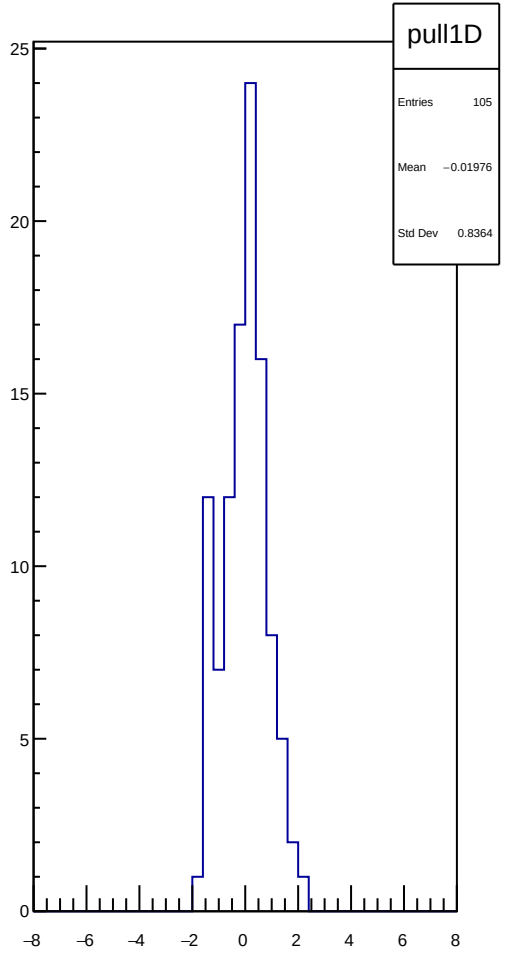

dit_asym_sam8_rms vs run
χ^2 / ndf 1.3e+04 / 104
p0 75.32 ± 0.05282
220
200
180
160
140
120
100
80
60

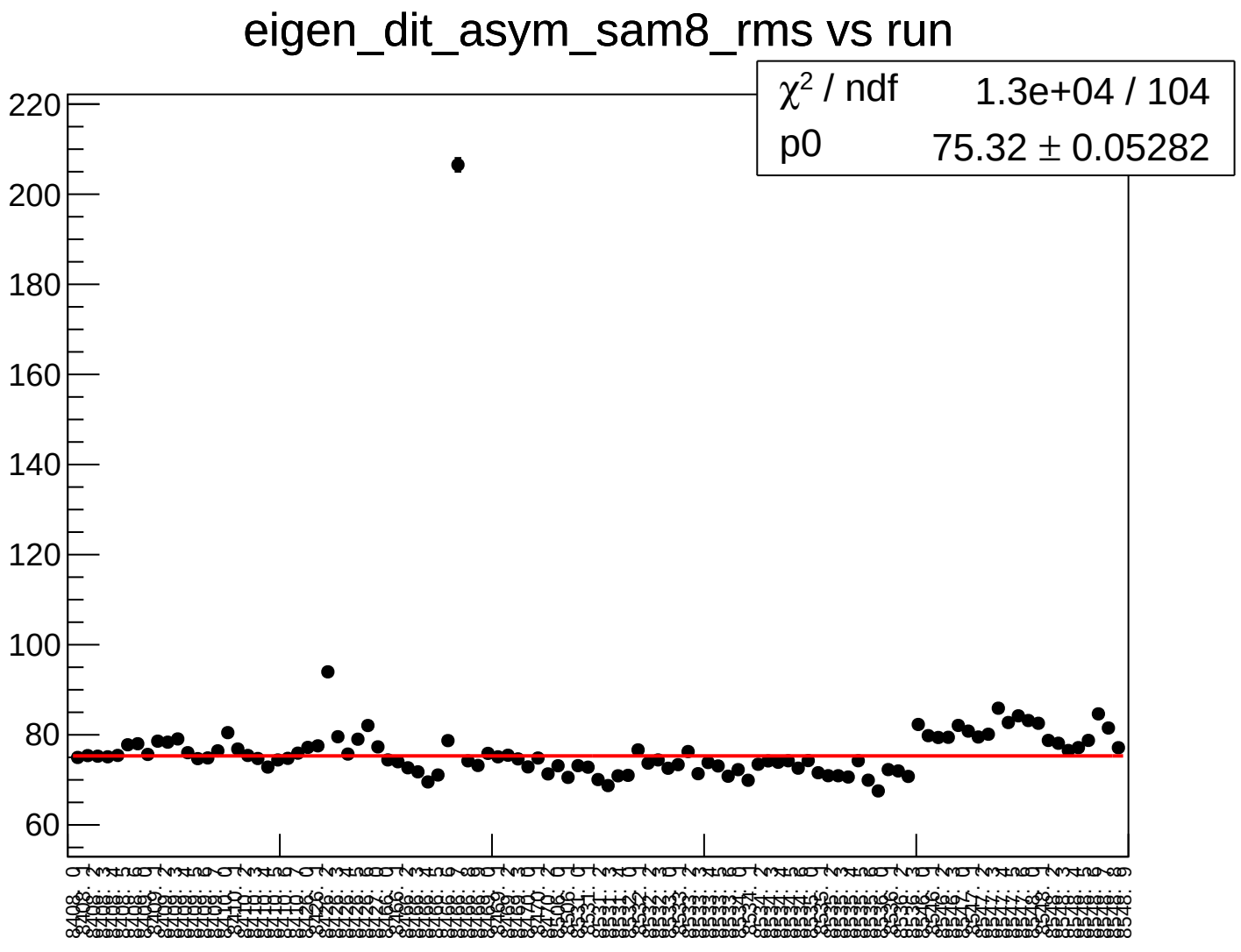

asym_sam8_dit_correction_mean vs run
χ² / ndf 106.4 / 104
p0 −1080 ± 397.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 105
Mean 1053
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

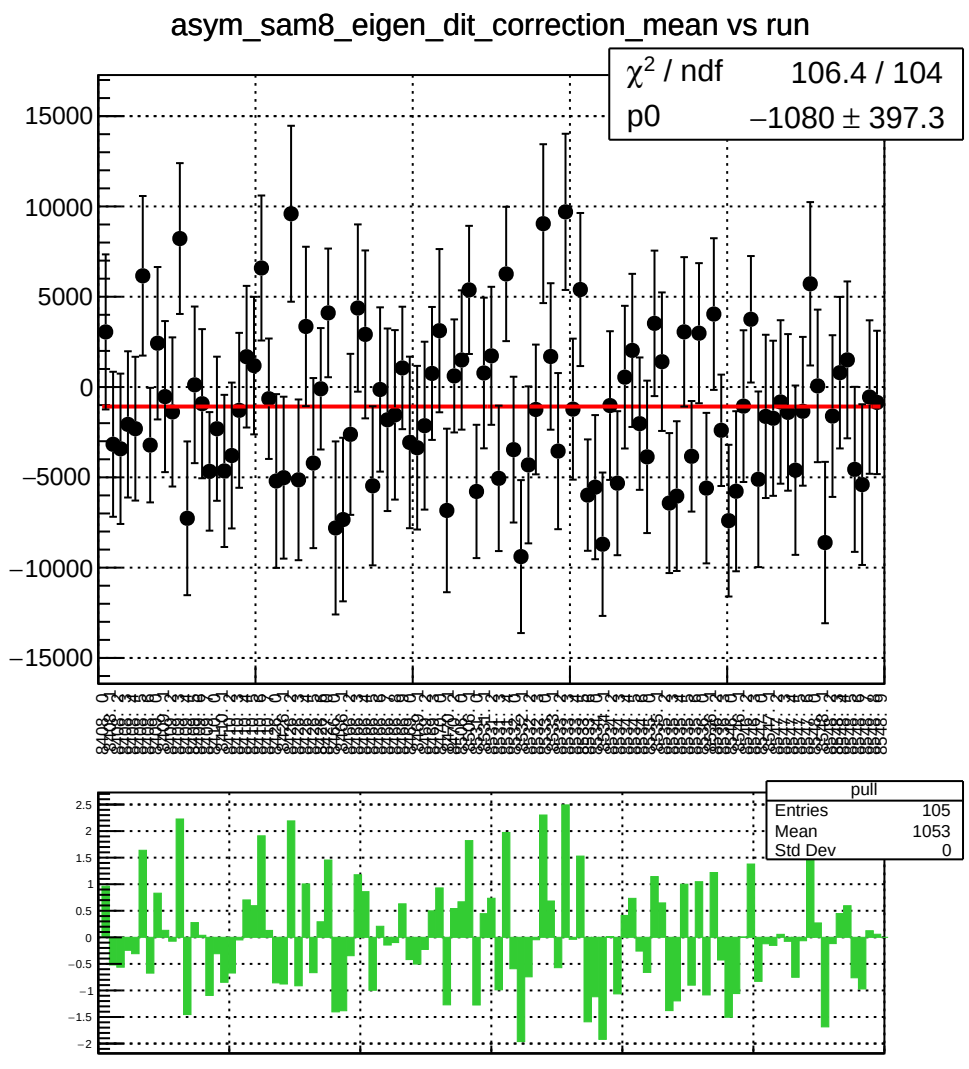

pull1D
Entries 105
Mean −0.002554
Std Dev 1.007
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

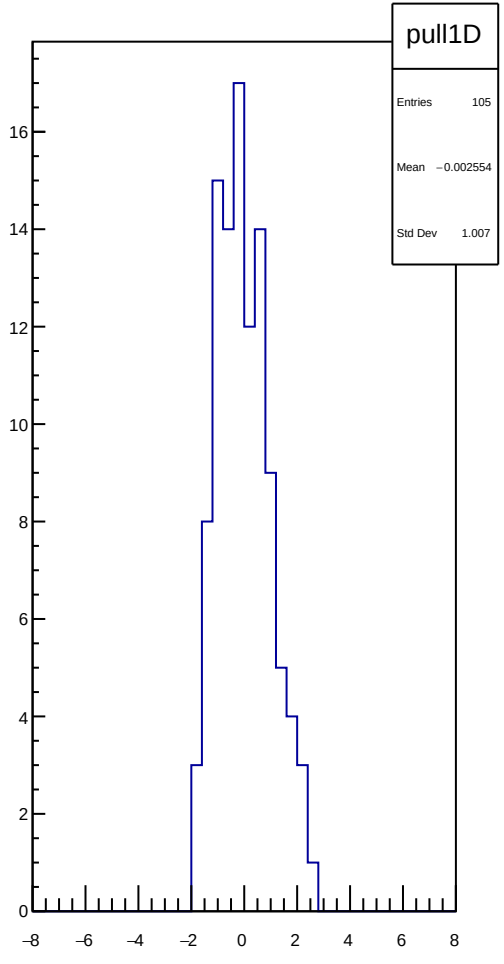

asym_sam8_dit_correction_rms vs run
χ² / ndf 8029 / 104
p0 401.1 ± 0.2809
480
460
440
420
400
380
360
340

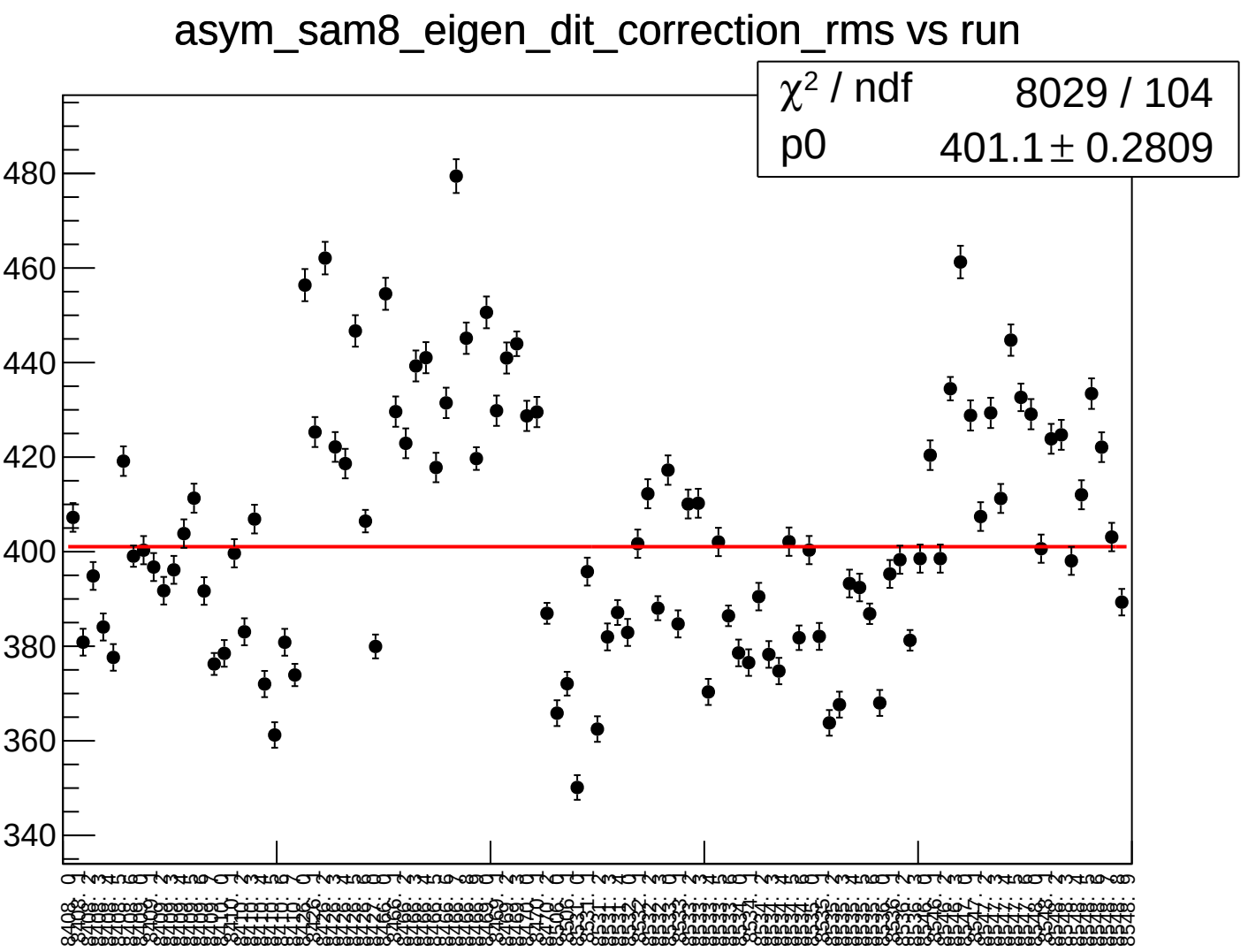

eigen_dit_asym_sam8_mean vs run
χ² / ndf 73.5 / 104
p0 −102.9 ± 74.7
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 105
Mean 156.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

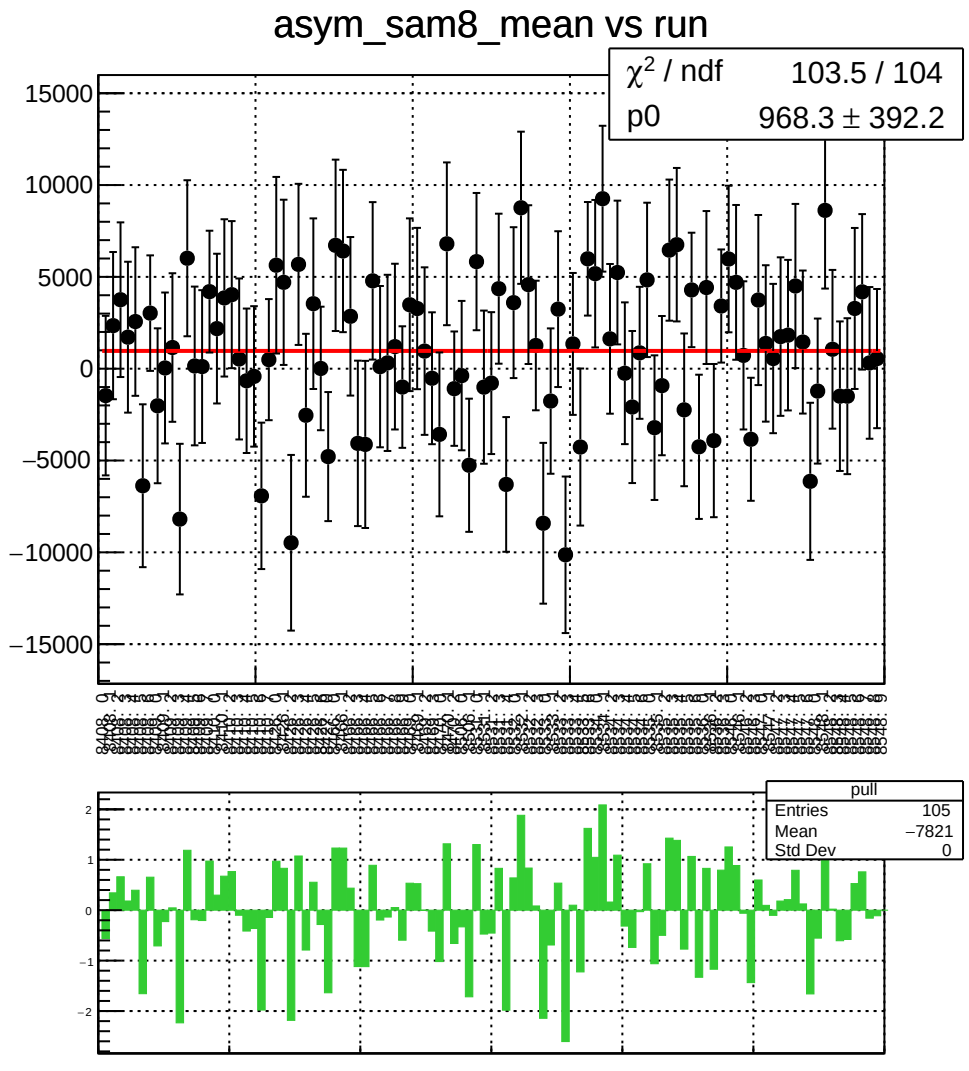

pull1D
Entries 105
Mean −0.01976
Std Dev 0.8364
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

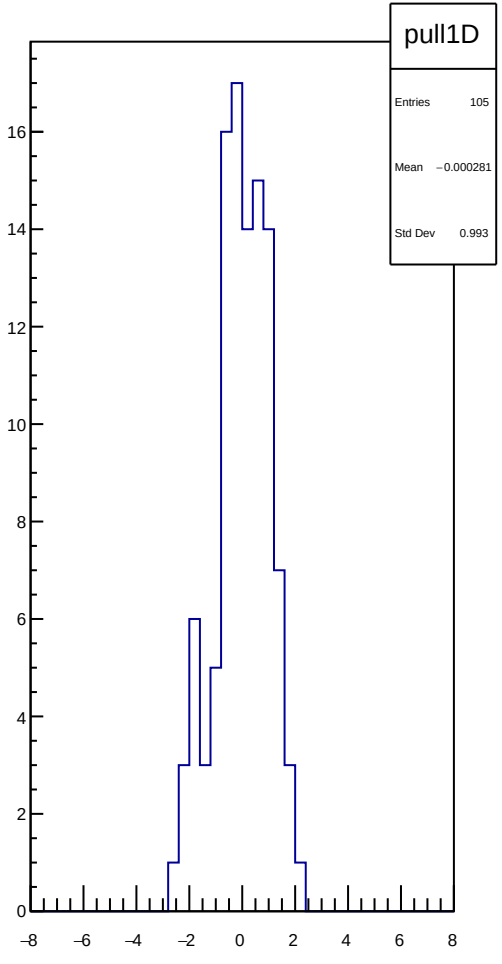

eigen_dit_asym_sam8_rms vs run
χ^2 / ndf 1.3e+04 / 104
p0 75.32 ± 0.05282
220
200
180
160
140
120
100
80
60

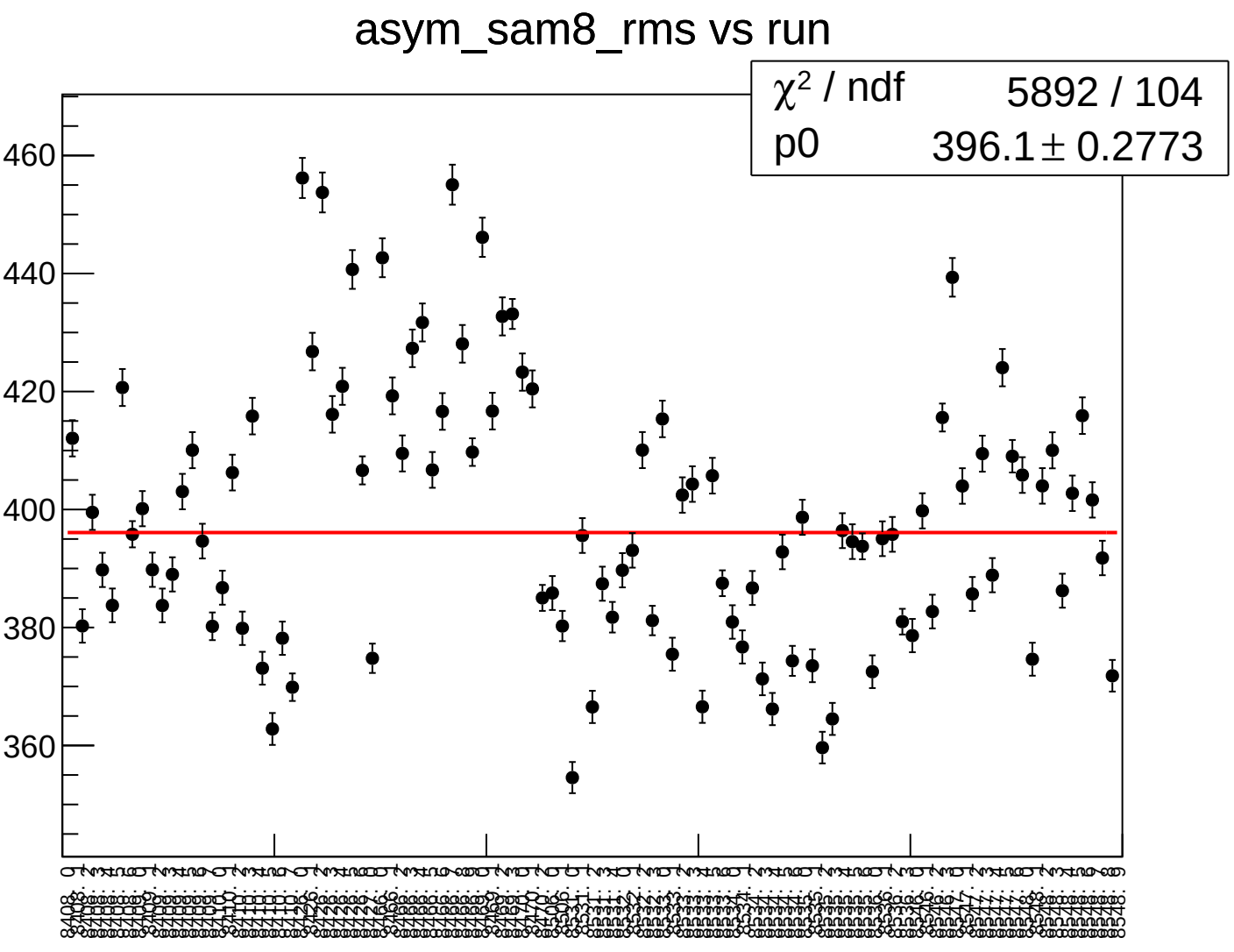

asym_sam8_eigen_dit_correction_mean vs run
χ² / ndf 106.4 / 104
p0 −1080 ± 397.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 105
Mean 1053
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

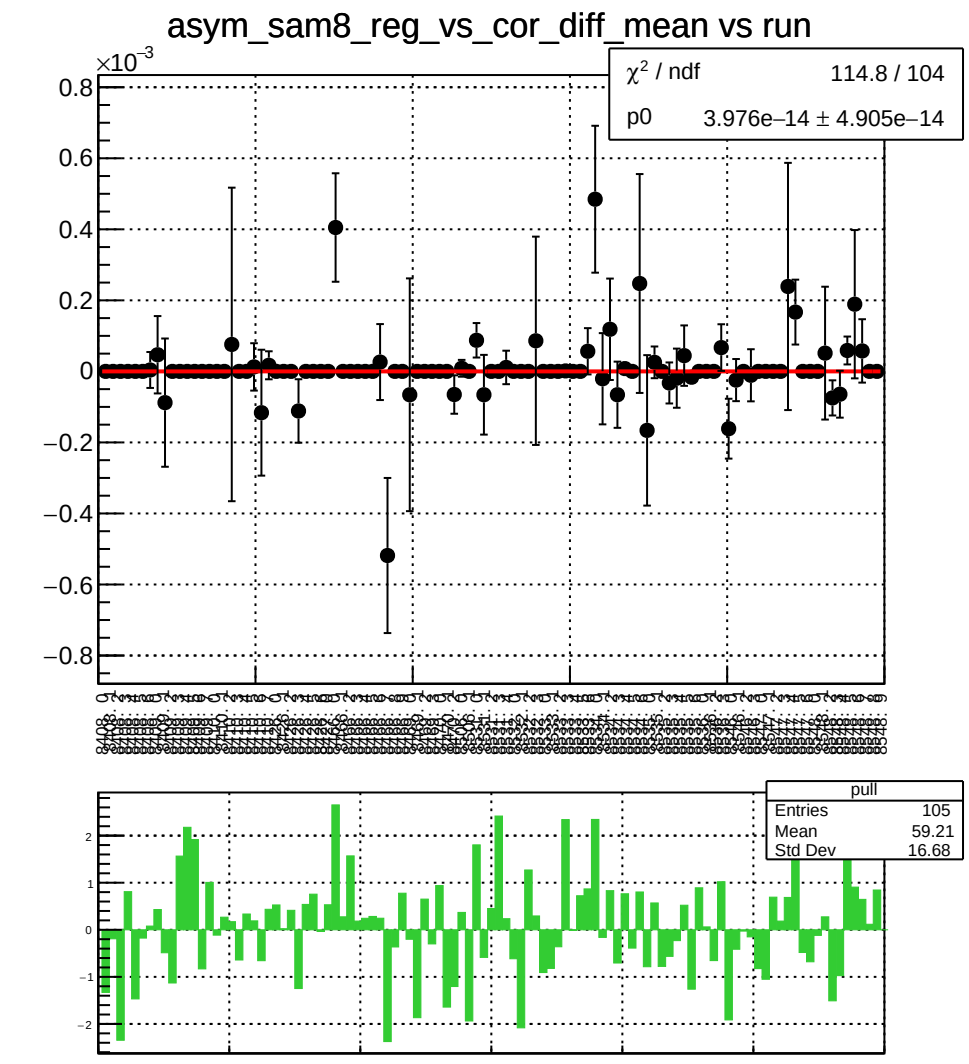

pull1D
Entries 105
Mean −0.002554
Std Dev 1.007
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

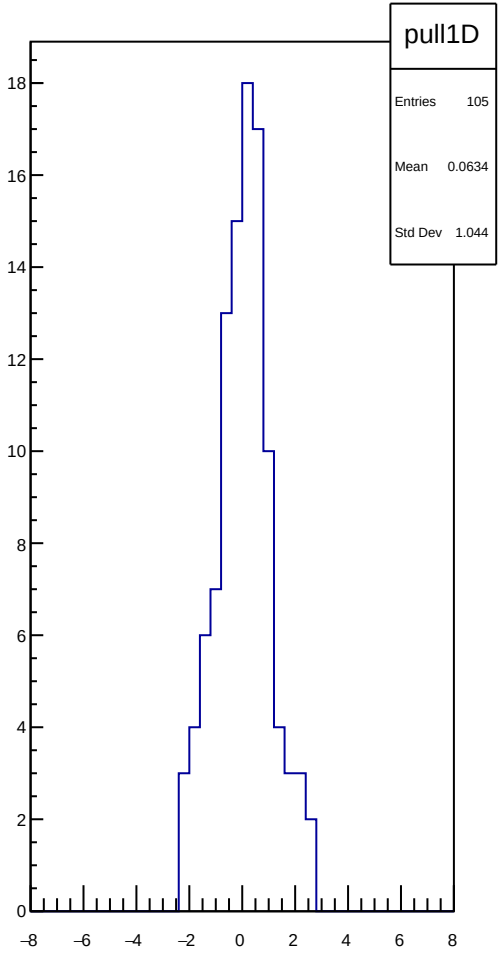

asym_sam8_eigen_dit_correction_rms vs run
χ² / ndf 8029 / 104
p0 401.1 ± 0.2809
480
460
440
420
400
380
360
340

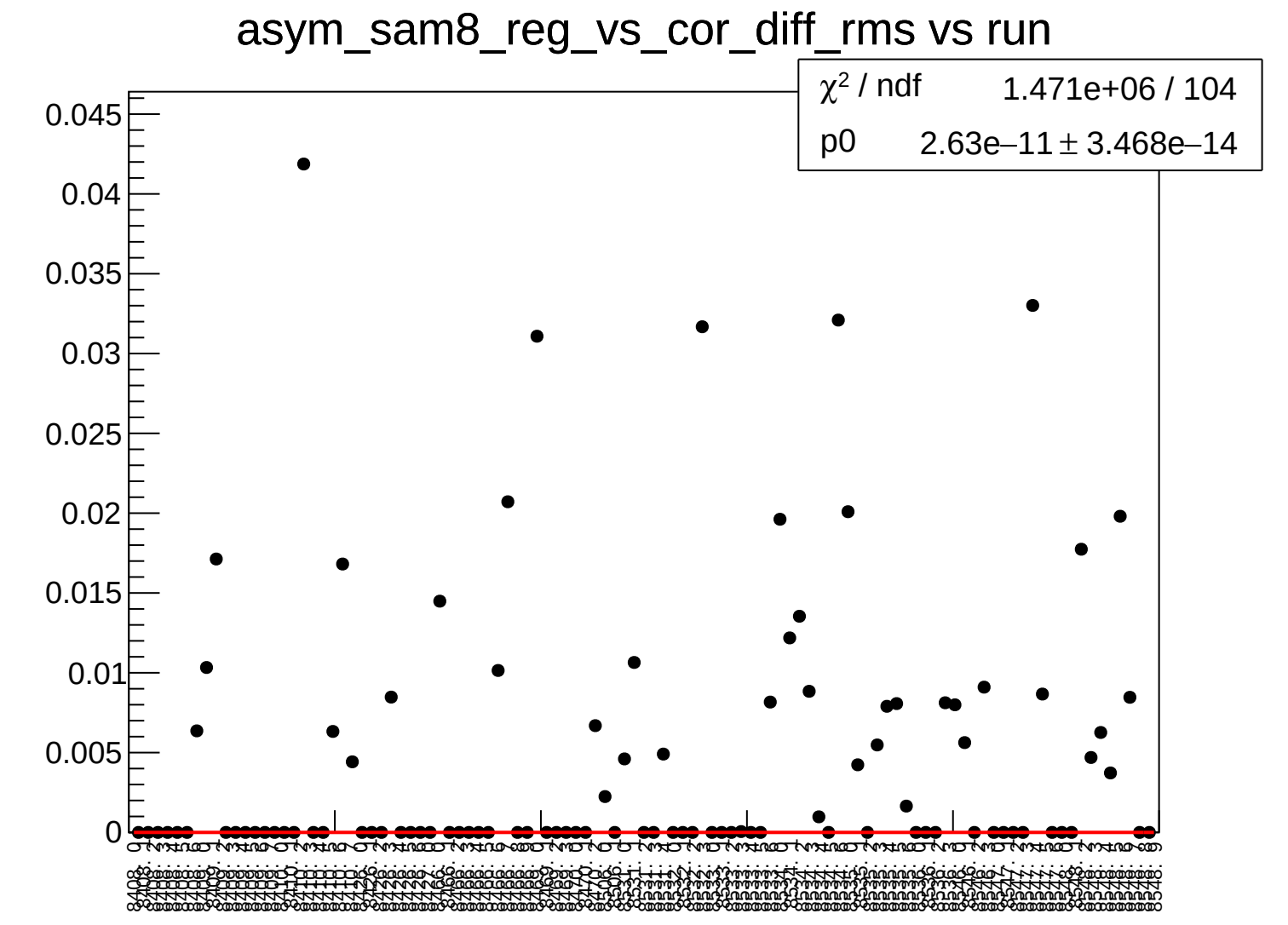

asym_sam8_mean vs run
χ² / ndf 103.5 / 104
p0 968.3 ± 392.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 105
Mean −7821
Std Dev 0
2
1
0
−1
−2

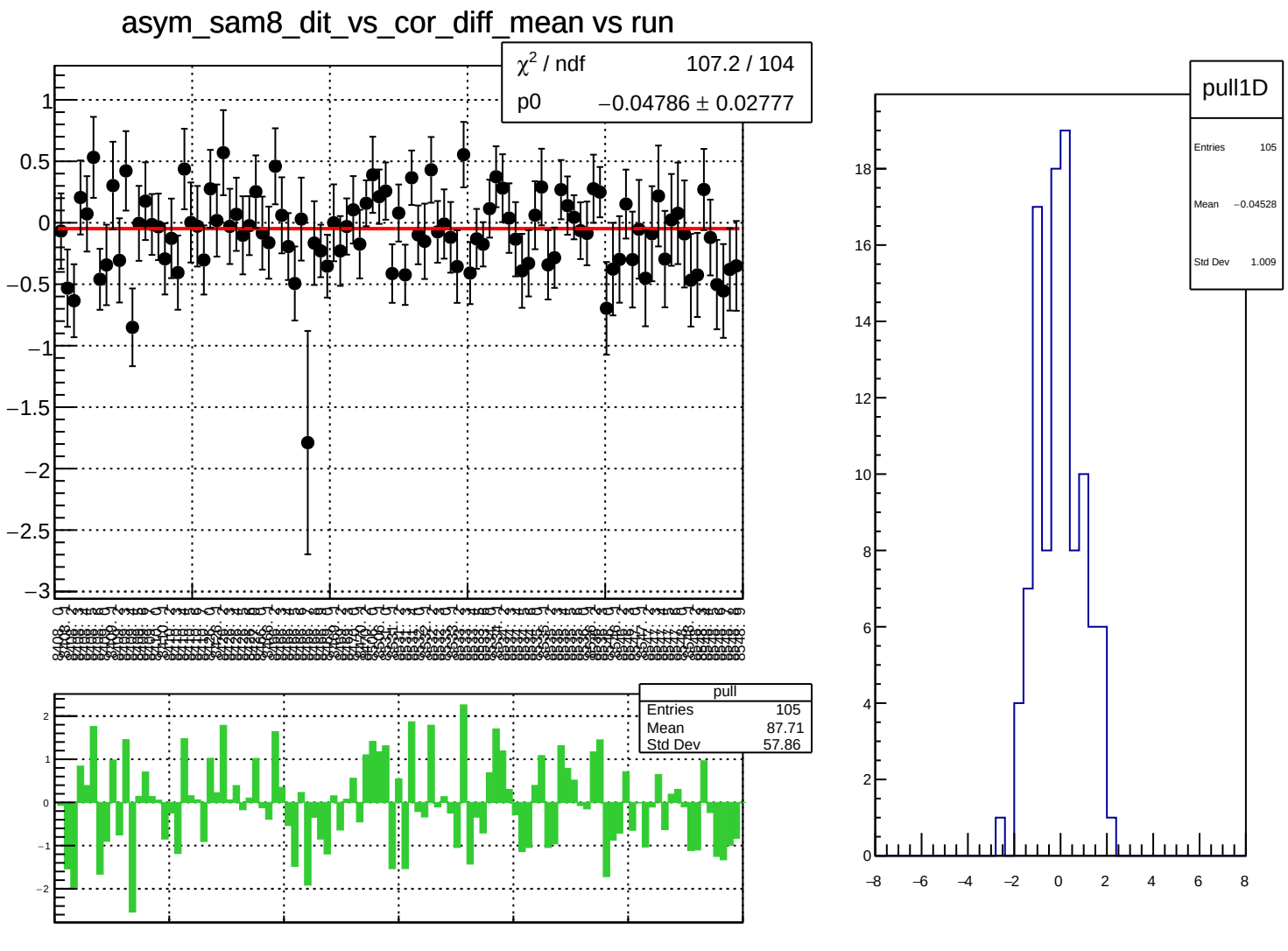

pull1D
Entries 105
Mean −0.000281
Std Dev 0.993
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

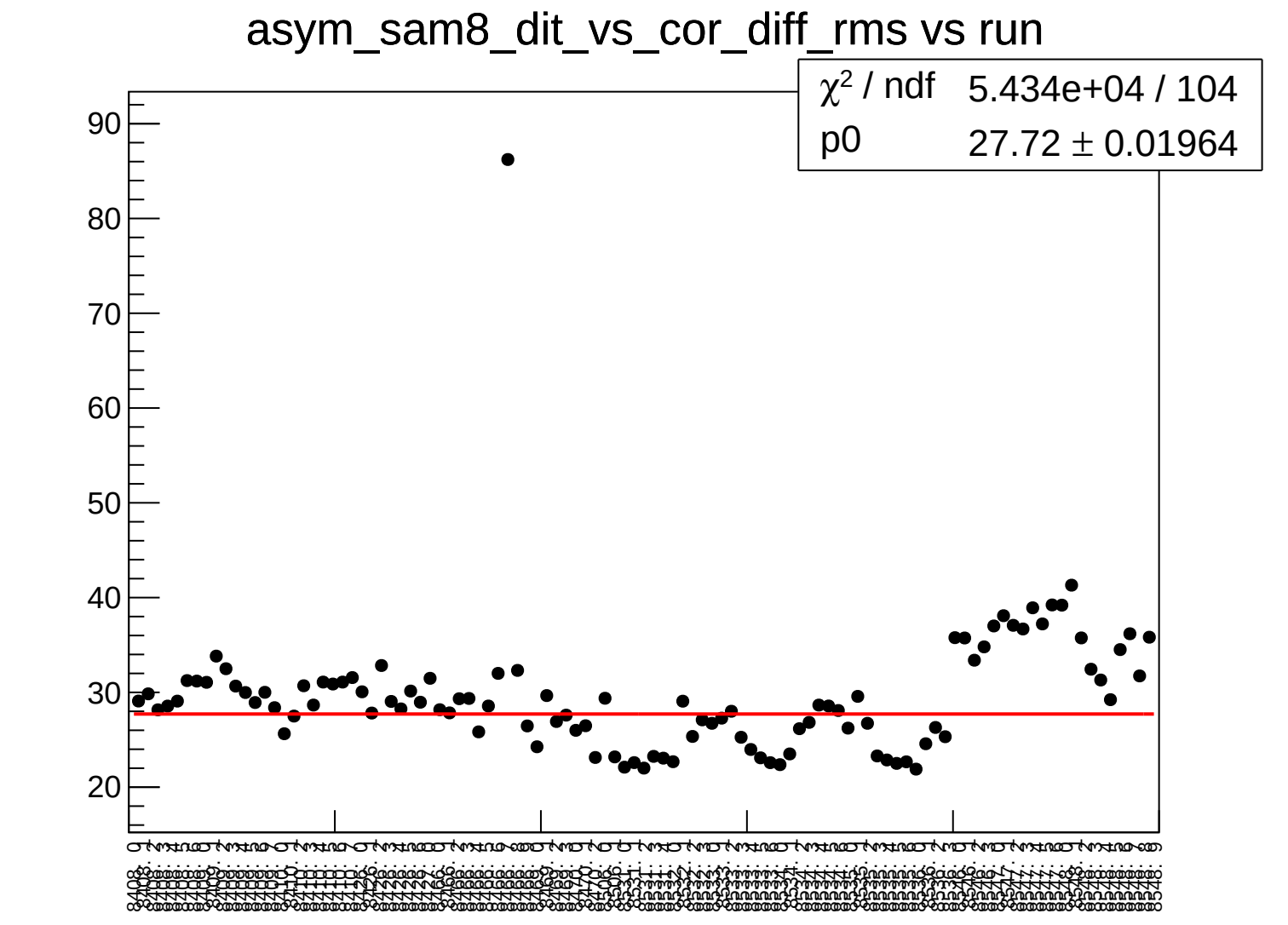

asym_sam8_rms vs run
χ² / ndf 5892 / 104
p0 396.1 ± 0.2773
460
440
420
400
380
360

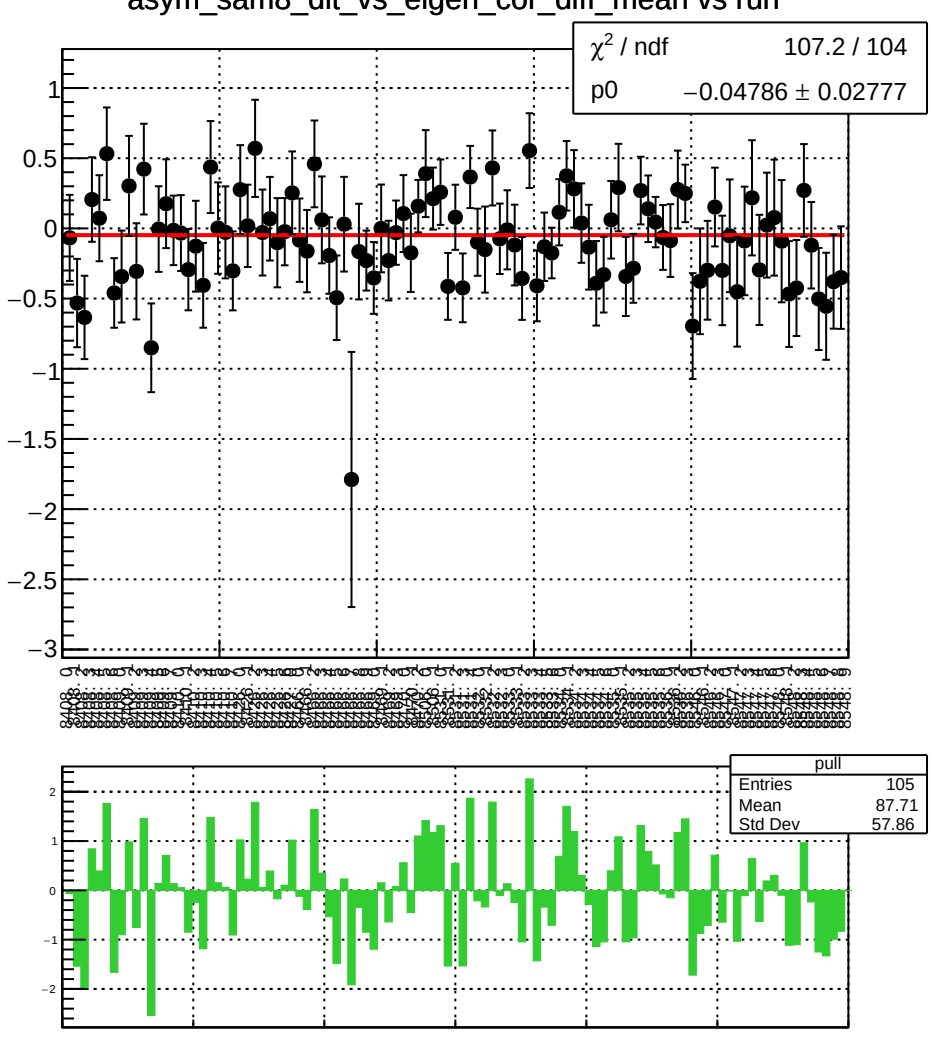

asym_sam8_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 114.8 / 104
p0 3.976e−14 ± 4.905e−14
pull
Entries 105
Mean 59.21
Std Dev 16.68

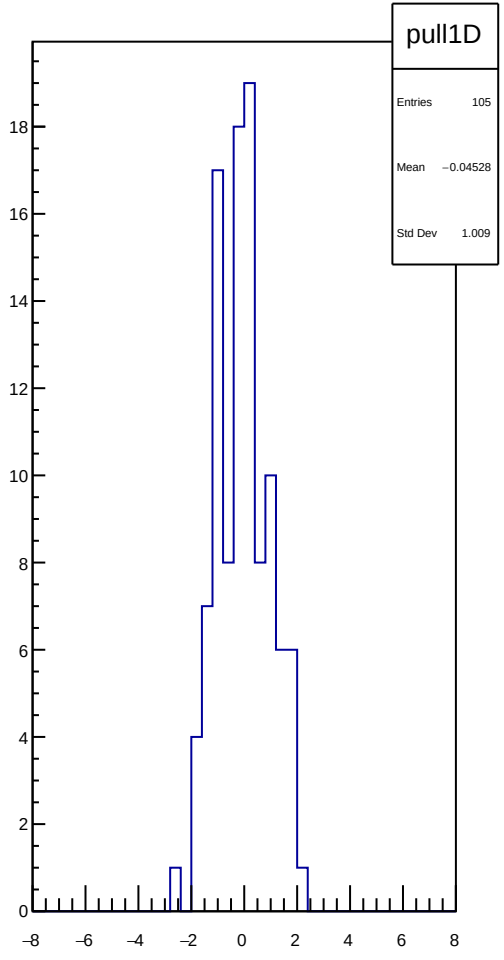

pull1D
Entries 105
Mean 0.0634
Std Dev 1.044

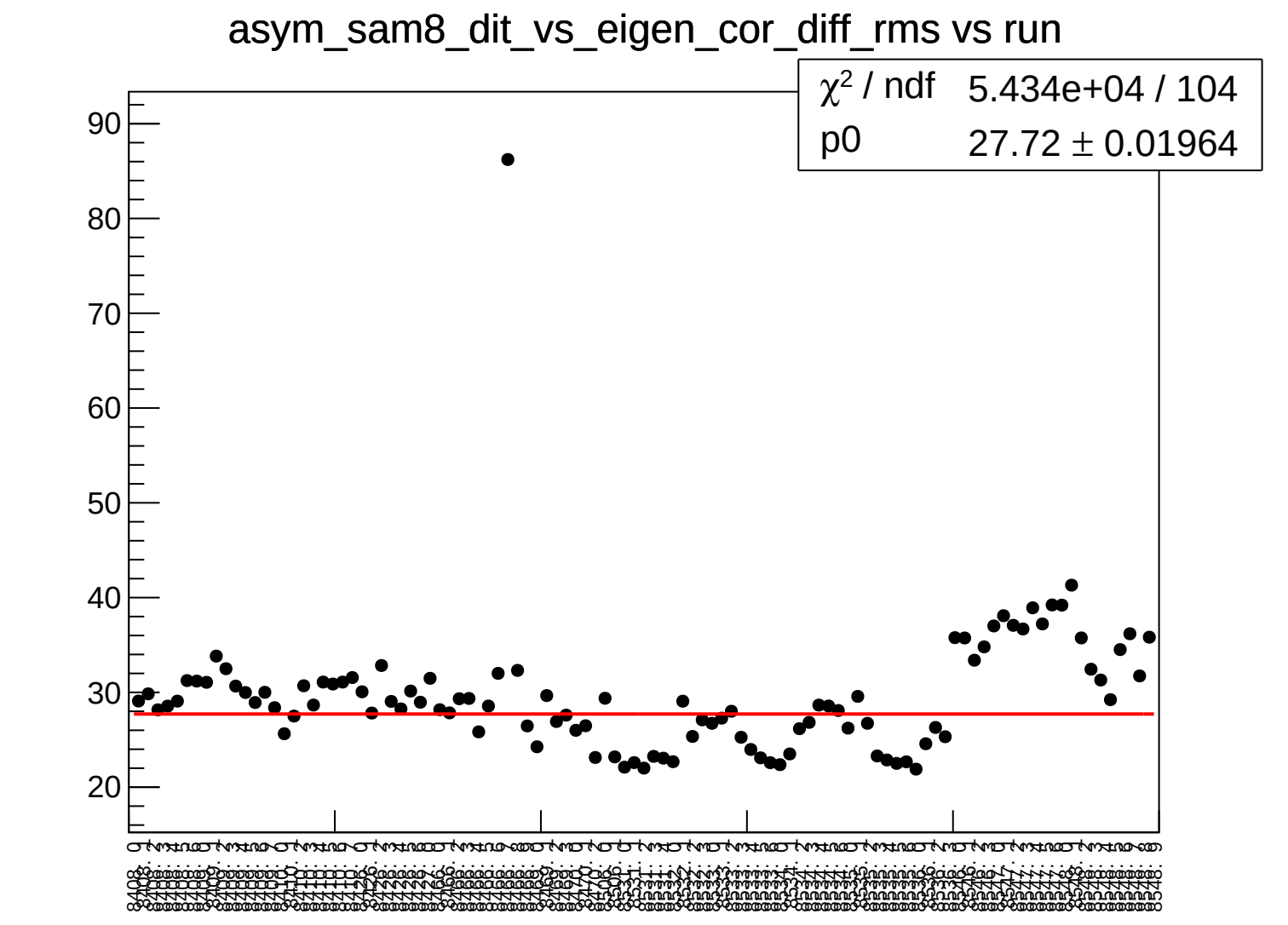

asym_sam8_reg_vs_cor_diff_rms vs run
χ² / ndf 1.471e+06 / 104
p0 2.63e−11 ± 3.468e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

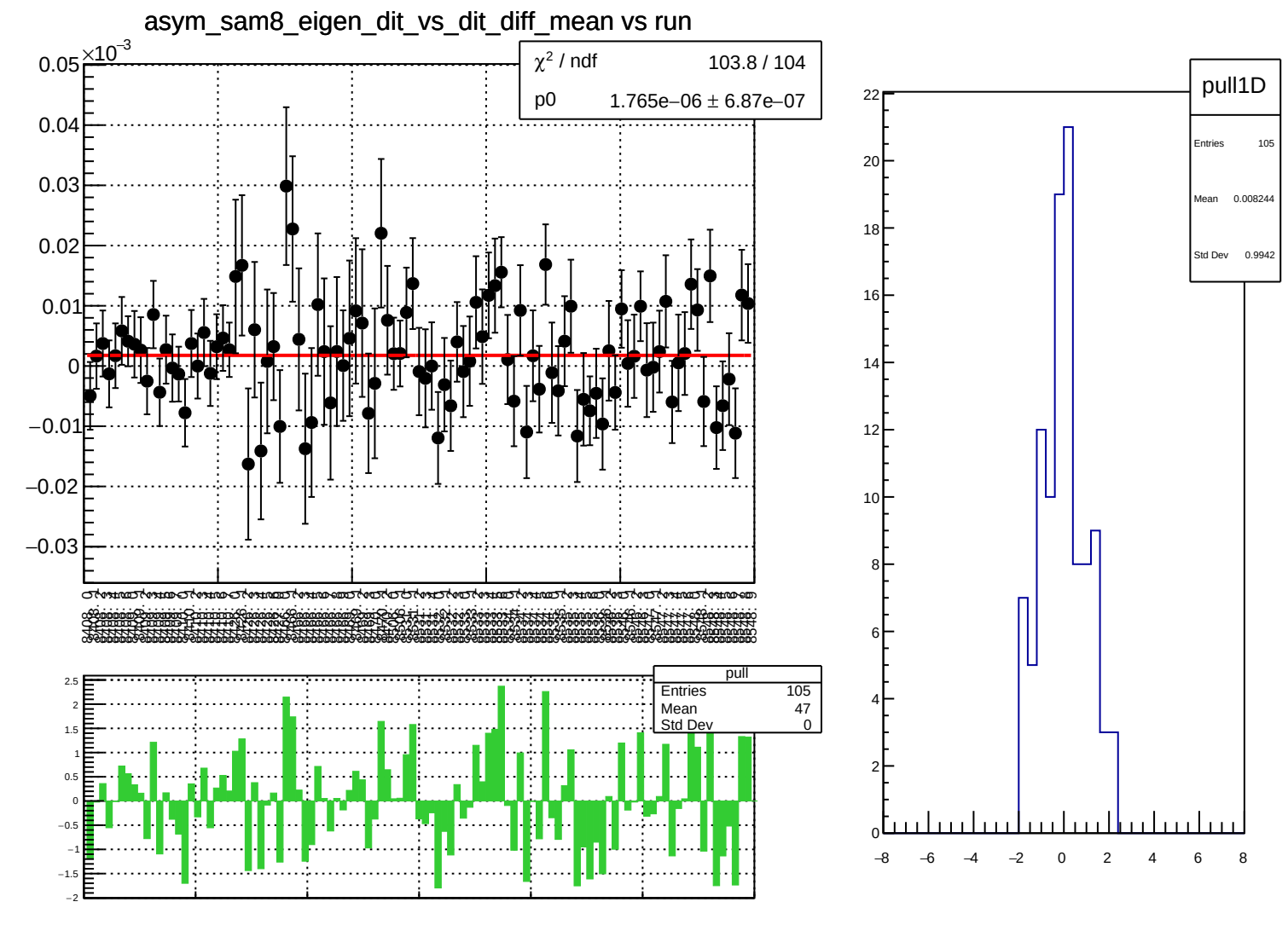

asym_sam8_dit_vs_cor_diff_mean vs run
χ² / ndf 107.2 / 104
p0 −0.04786 ± 0.02777
pull
Entries 105
Mean 87.71
Std Dev 57.86
pull1D
Entries 105
Mean −0.04528
Std Dev 1.009

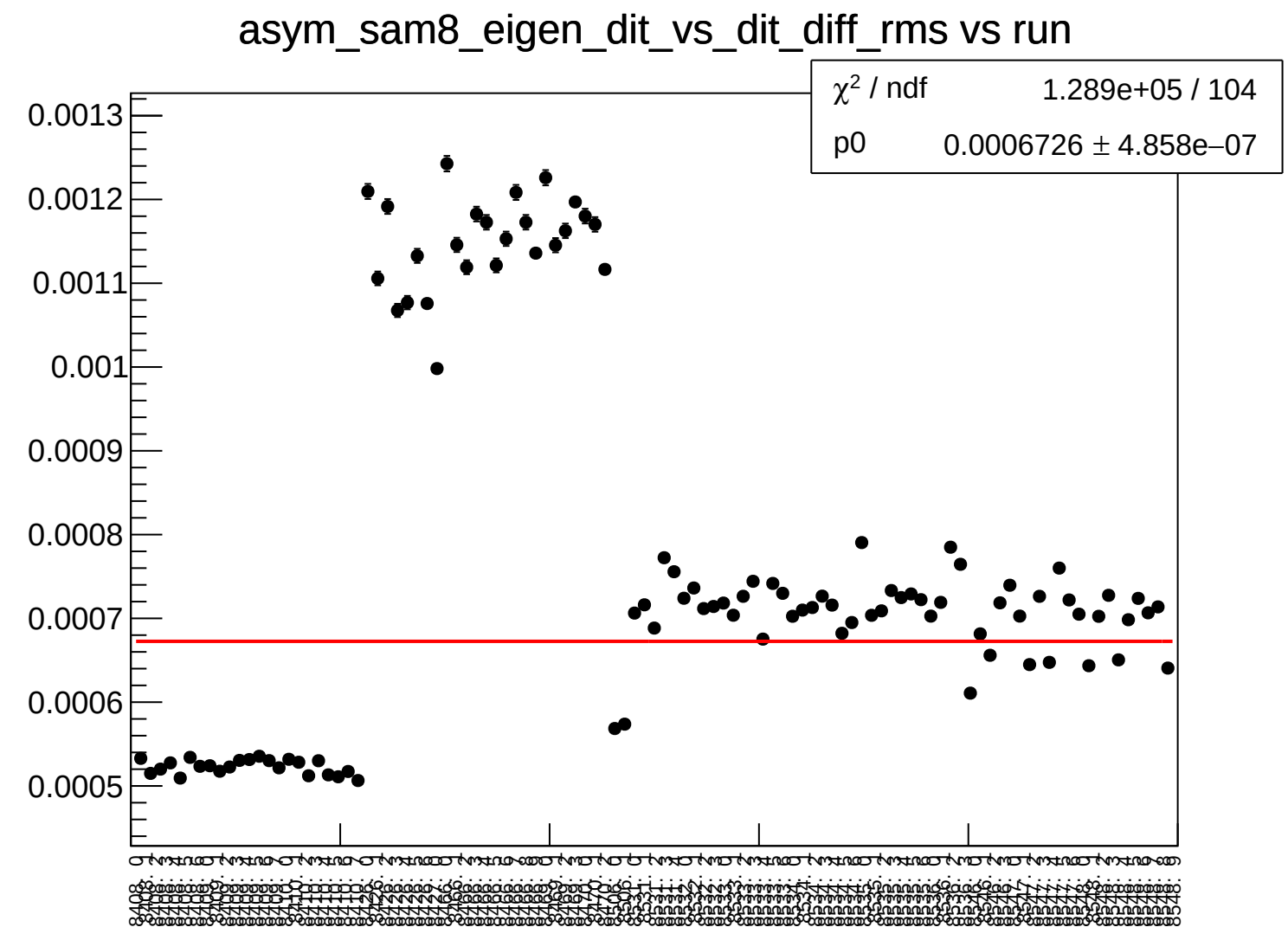

asym_sam8_dit_vs_cor_diff_rms vs run
χ^2 / ndf 5.434e+04 / 104
p0 27.72 ± 0.01964
90
80
70
60
50
40
30
20

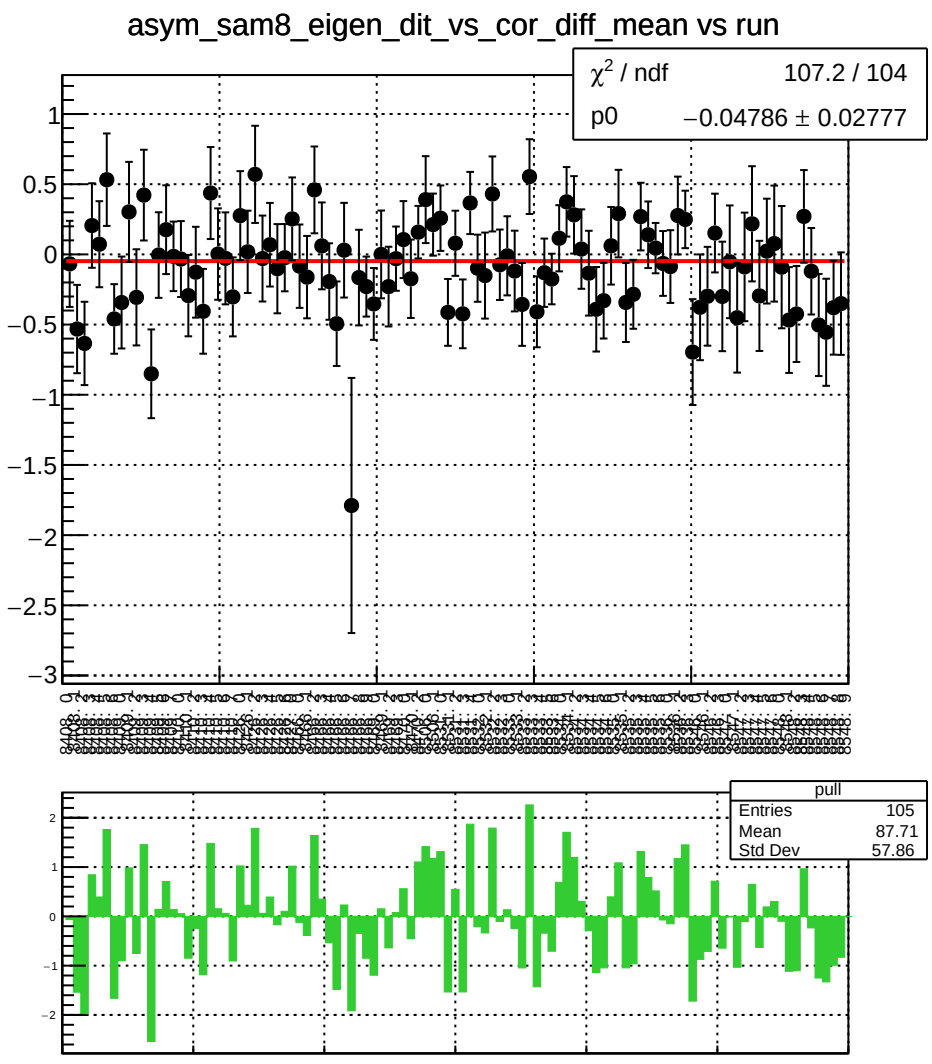

asym_sam8_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.2 / 104
p0 −0.04786 ± 0.02777
pull
Entries 105
Mean 87.71
Std Dev 57.86

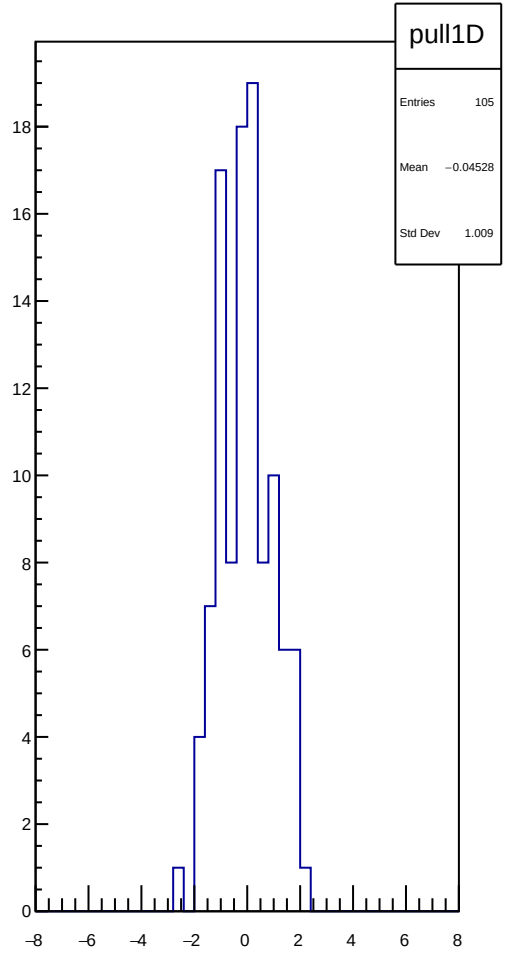

pull1D
Entries 105
Mean −0.04528
Std Dev 1.009

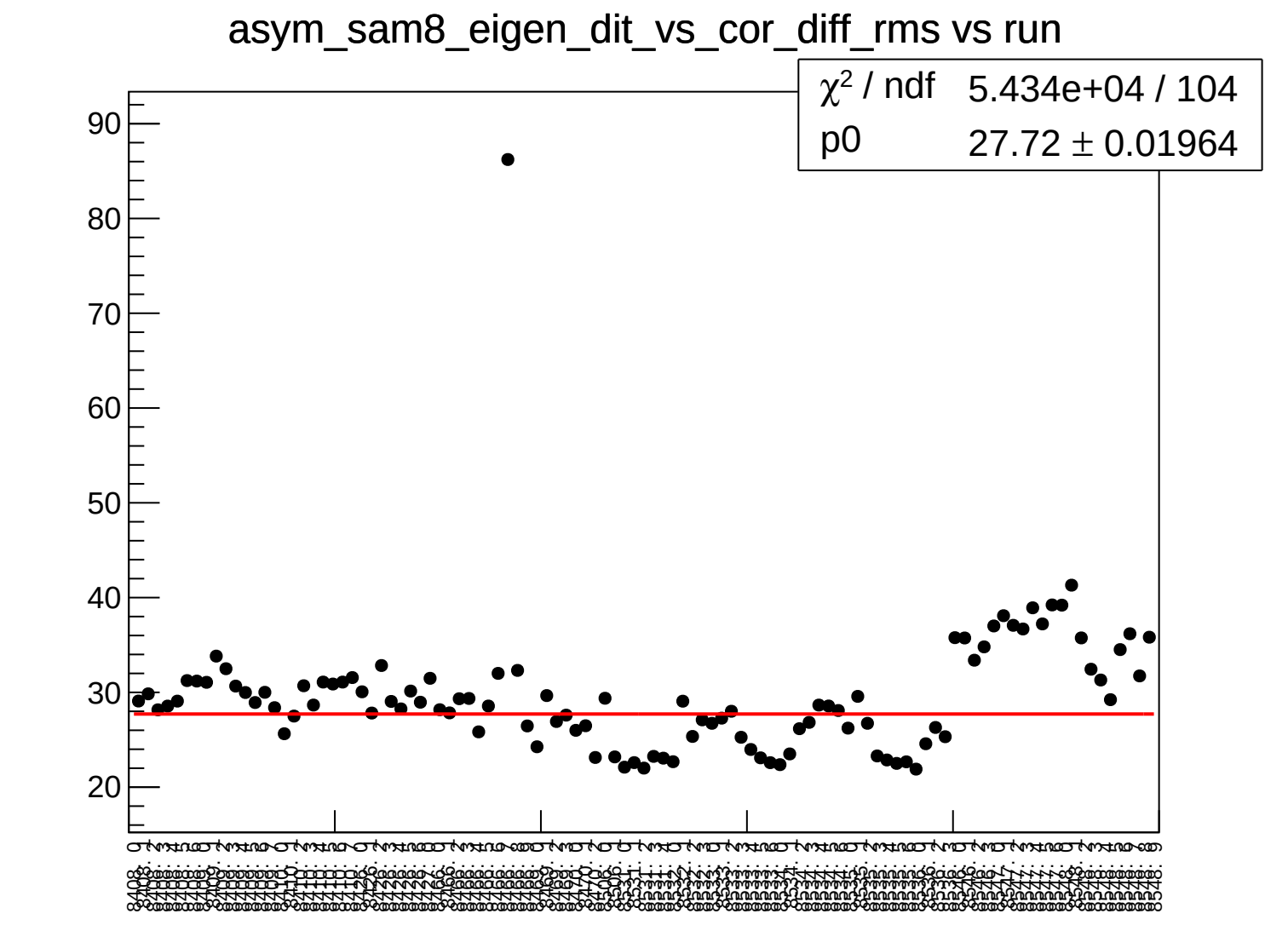

asym_sam8_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 5.434e+04 / 104
p0 27.72 ± 0.01964
90
80
70
60
50
40
30
20

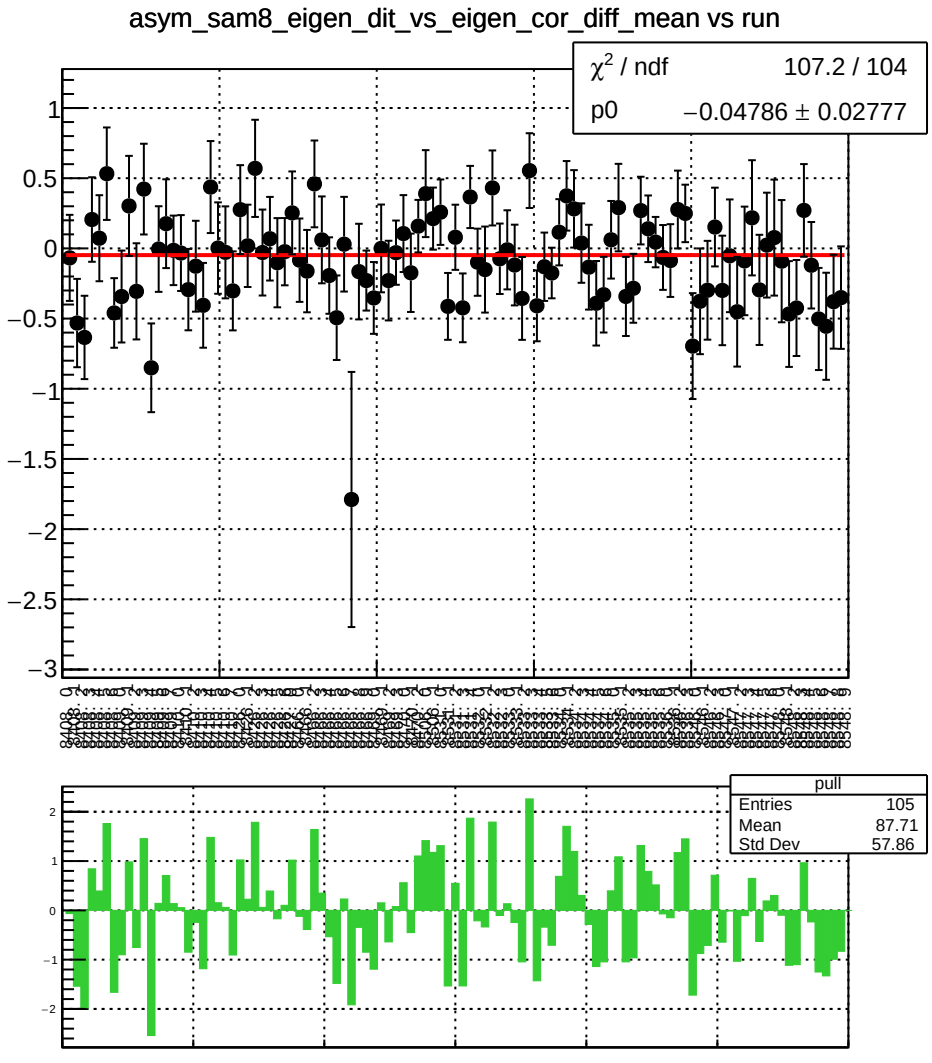

asym_sam8_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 103.8 / 104
p0 1.765e−06 ± 6.87e−07
pull
Entries 105
Mean 47
Std Dev 0
pull1D
Entries 105
Mean 0.008244
Std Dev 0.9942

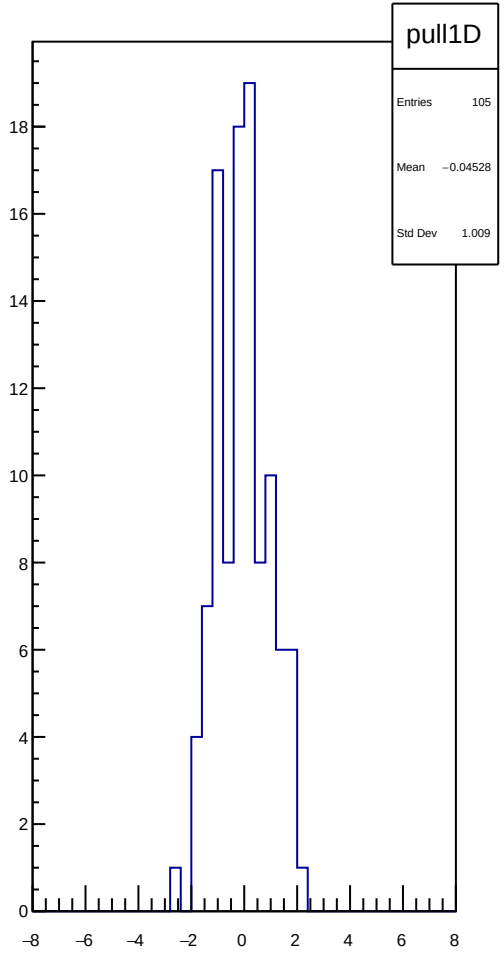

asym_sam8_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.289e+05 / 104
p0 0.0006726 ± 4.858e−07
0.0013
0.0012
0.0011
0.001
0.0009
0.0008
0.0007
0.0006
0.0005

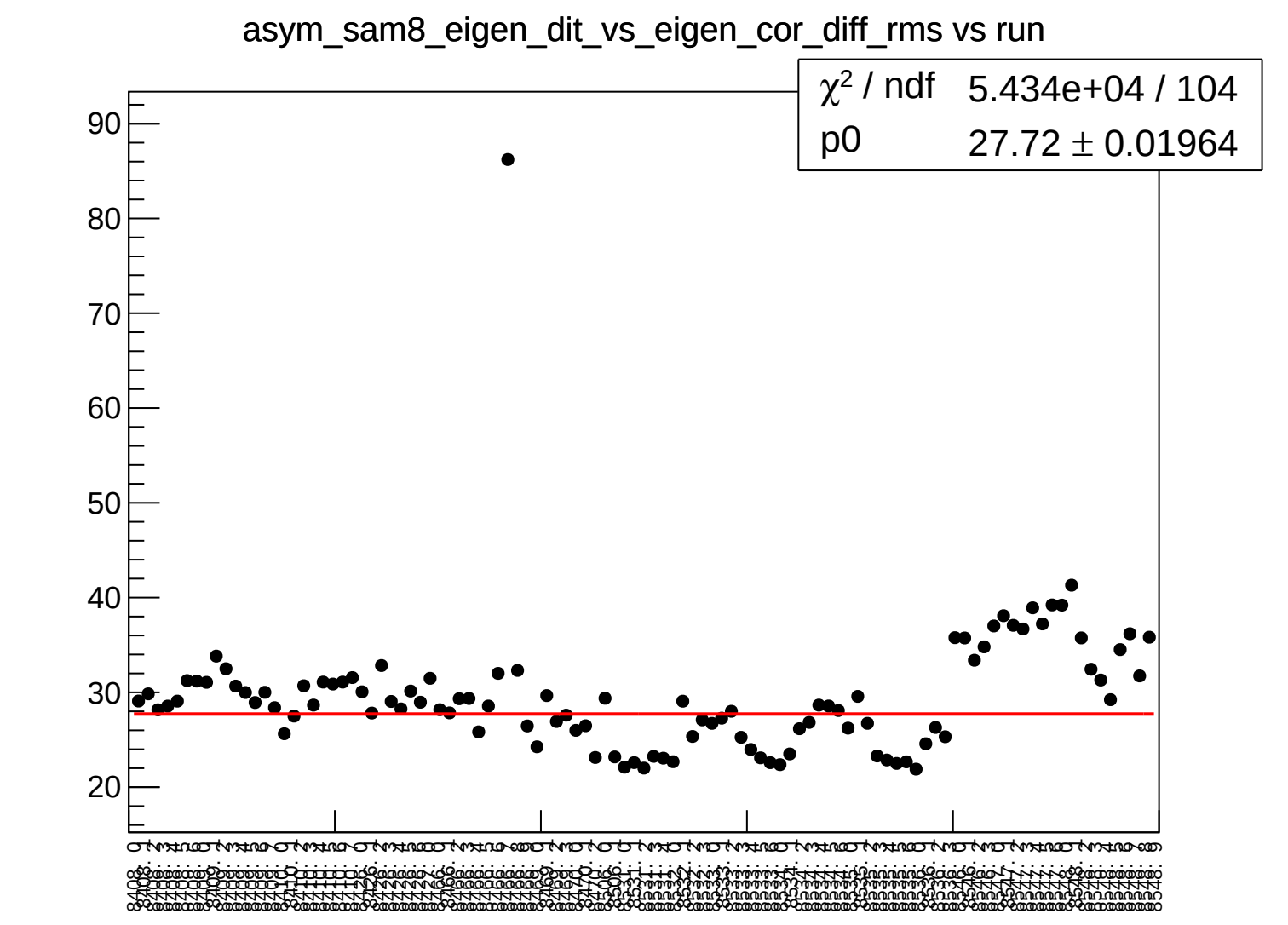

asym_sam8_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 107.2 / 104
p0 −0.04786 ± 0.02777
pull
Entries 105
Mean 87.71
Std Dev 57.86

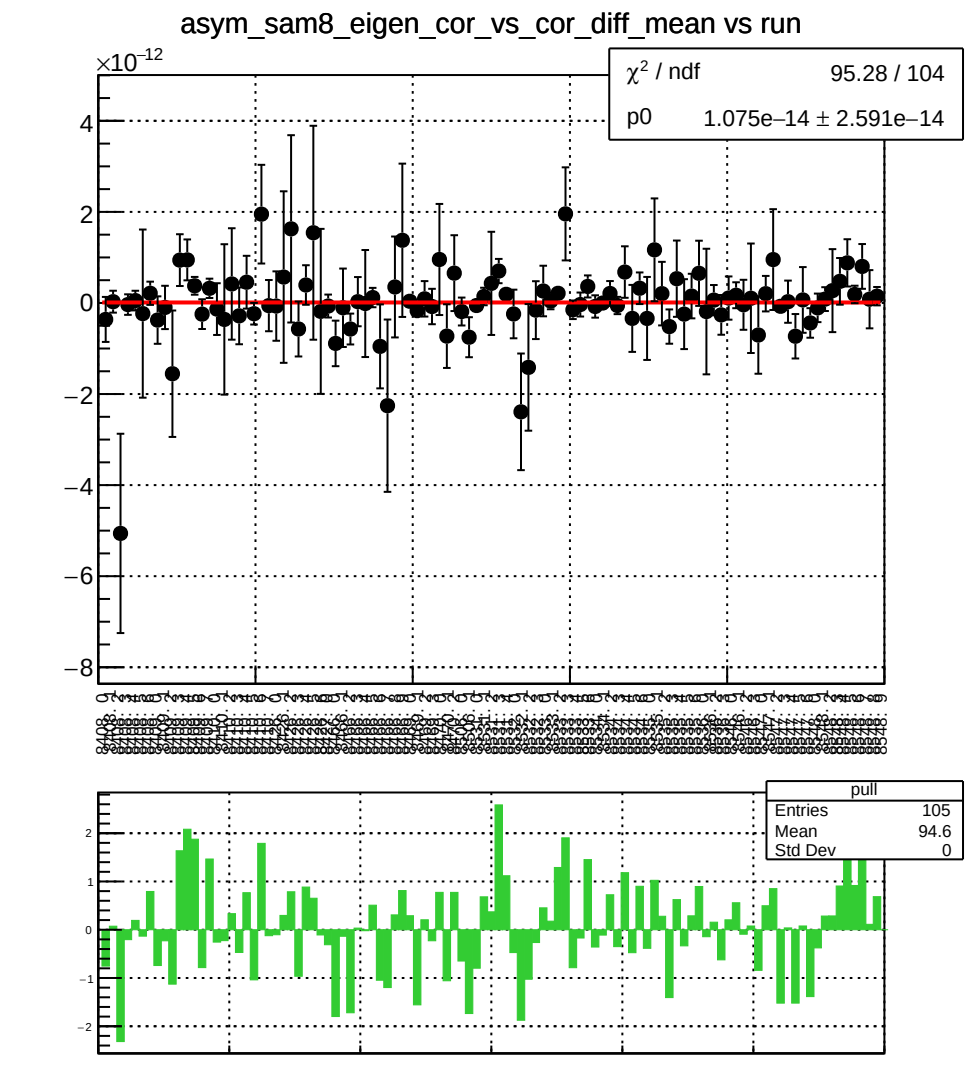

pull1D
Entries 105
Mean −0.04528
Std Dev 1.009

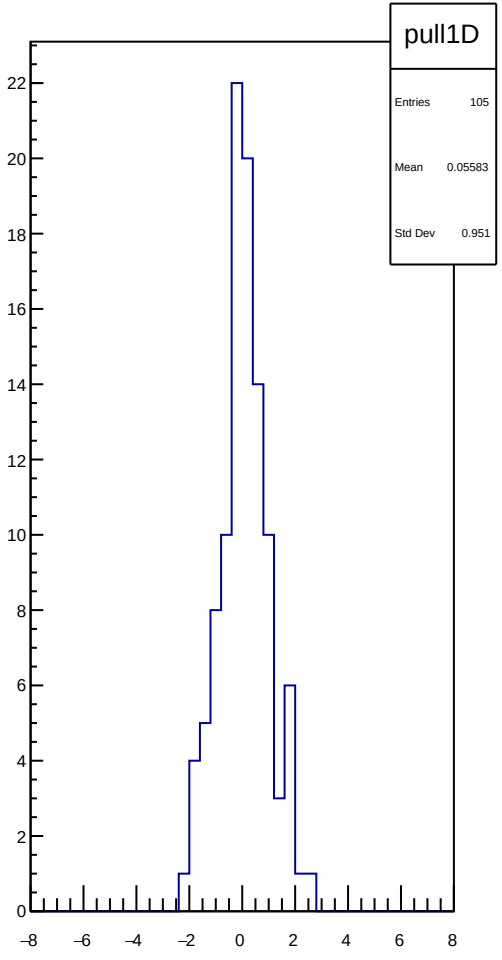

asym_sam8_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 5.434e+04 / 104
p0 27.72 ± 0.01964
90
80
70
60
50
40
30
20

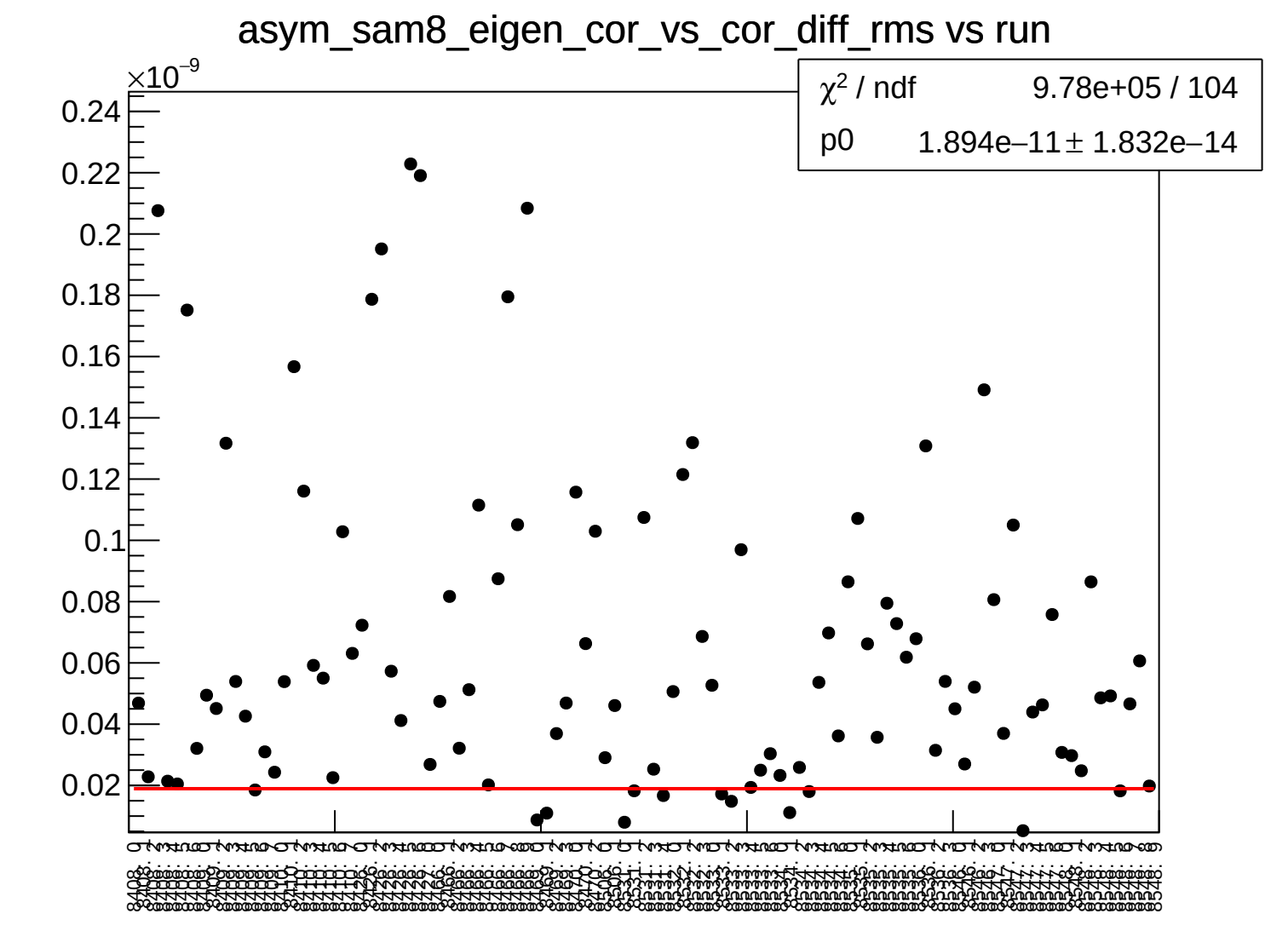

asym_sam8_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 107.2 / 104
p0 −0.04786 ± 0.02777
pull
Entries 105
Mean 87.71
Std Dev 57.86

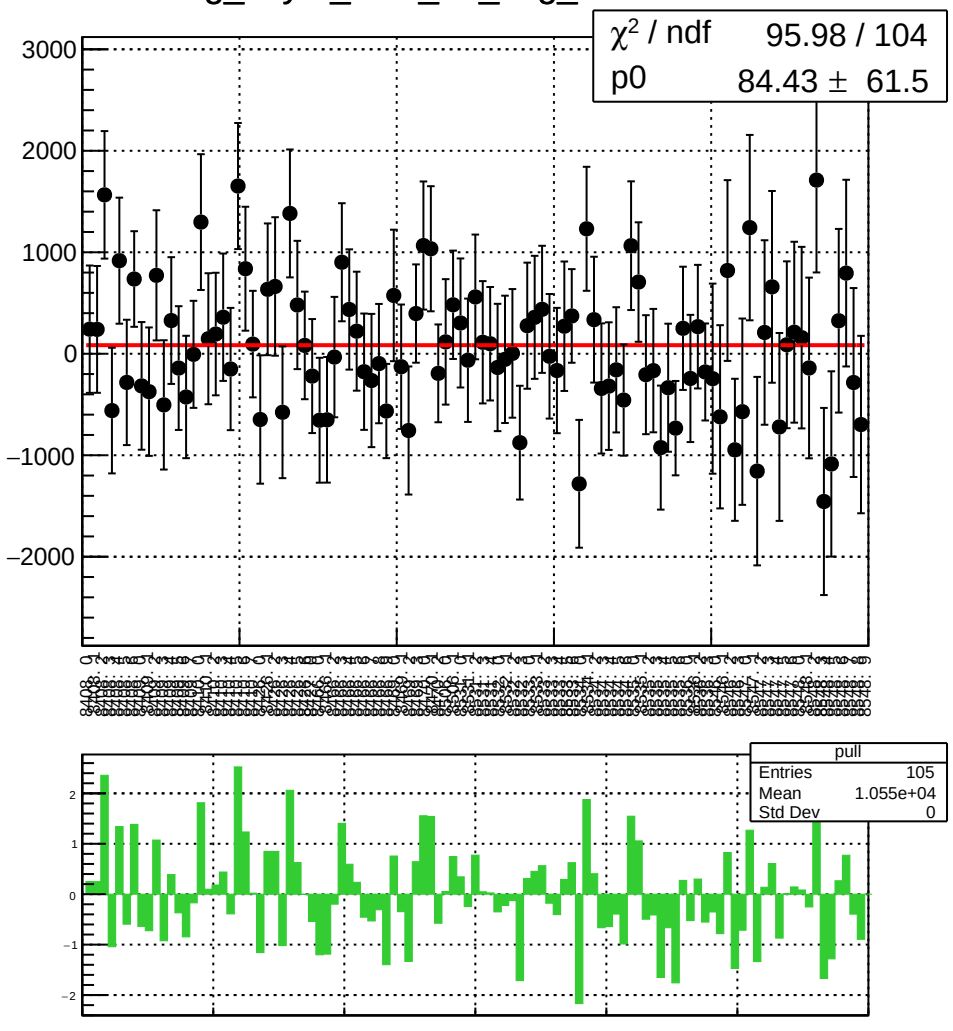

pull1D
Entries 105
Mean −0.04528
Std Dev 1.009

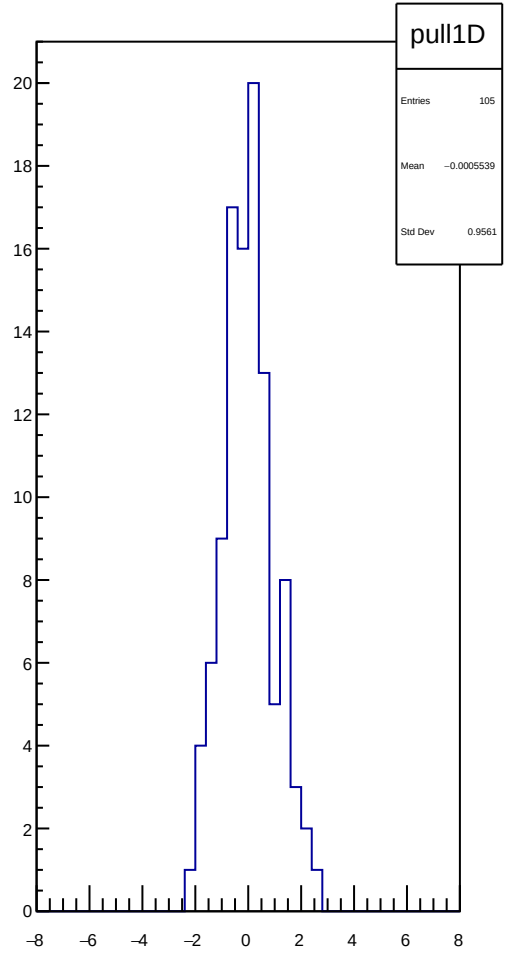

asym_sam8_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.434e+04 / 104
p0 27.72 ± 0.01964
90
80
70
60
50
40
30
20

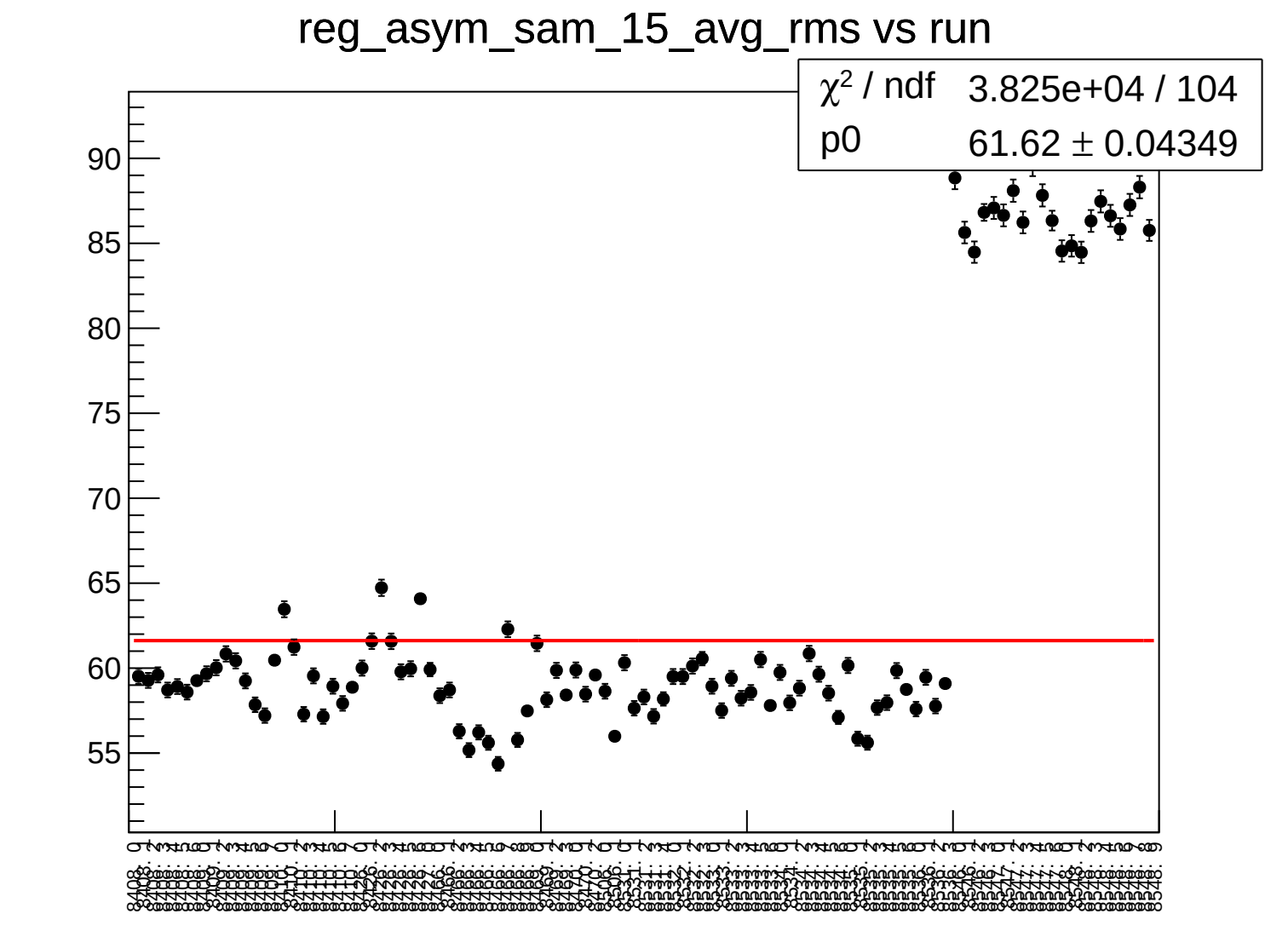

asym_sam8_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.28 / 104
p0 1.075e−14 ± 2.591e−14
pull
Entries 105
Mean 94.6
Std Dev 0

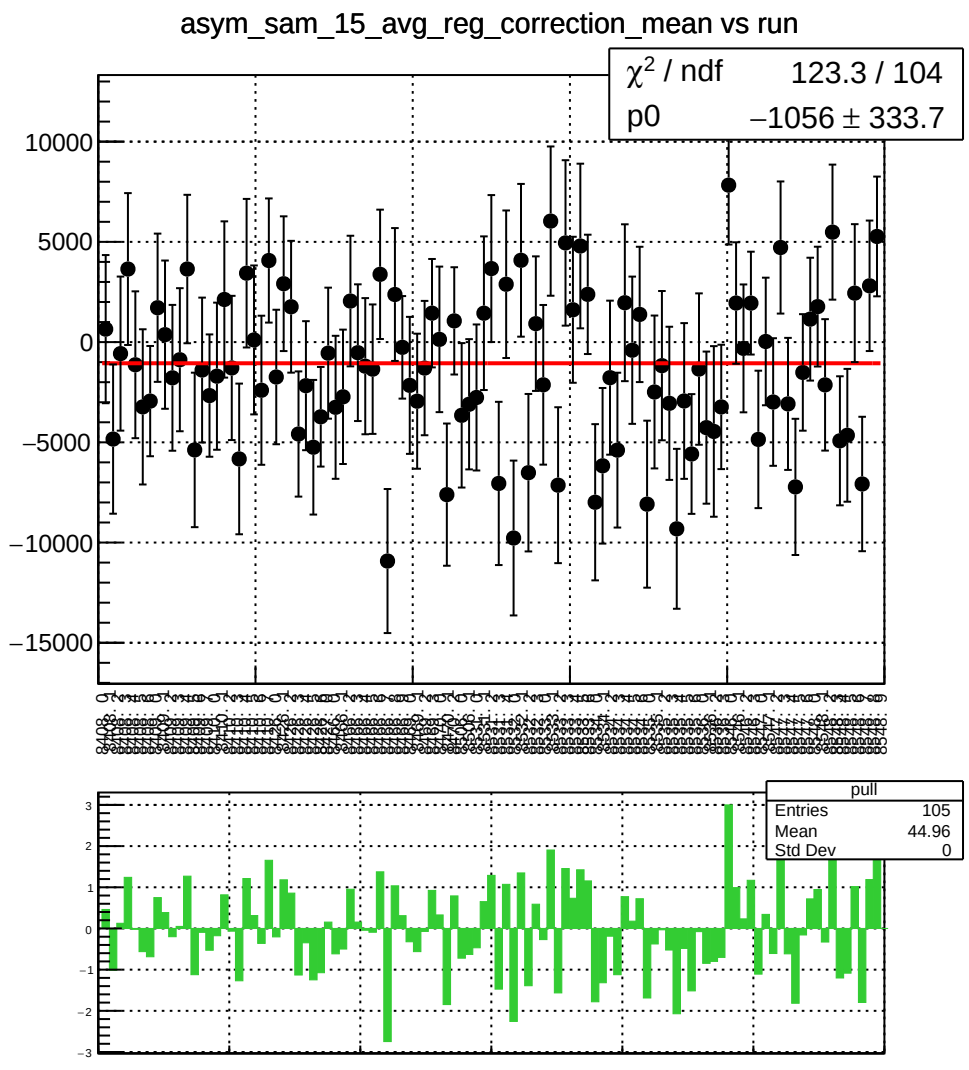

pull1D
Entries 105
Mean 0.05583
Std Dev 0.951

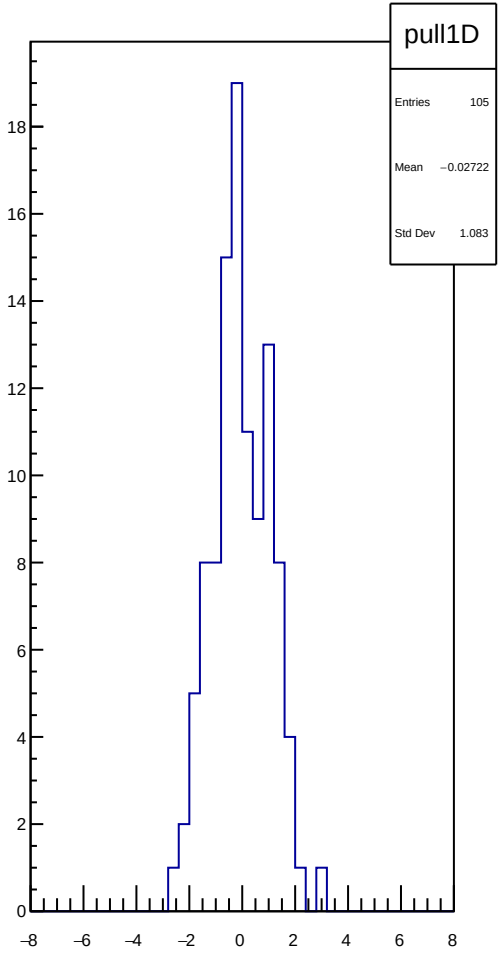

asym_sam8_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 9.78e+05 / 104
p0 1.894e−11 ± 1.832e−14
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

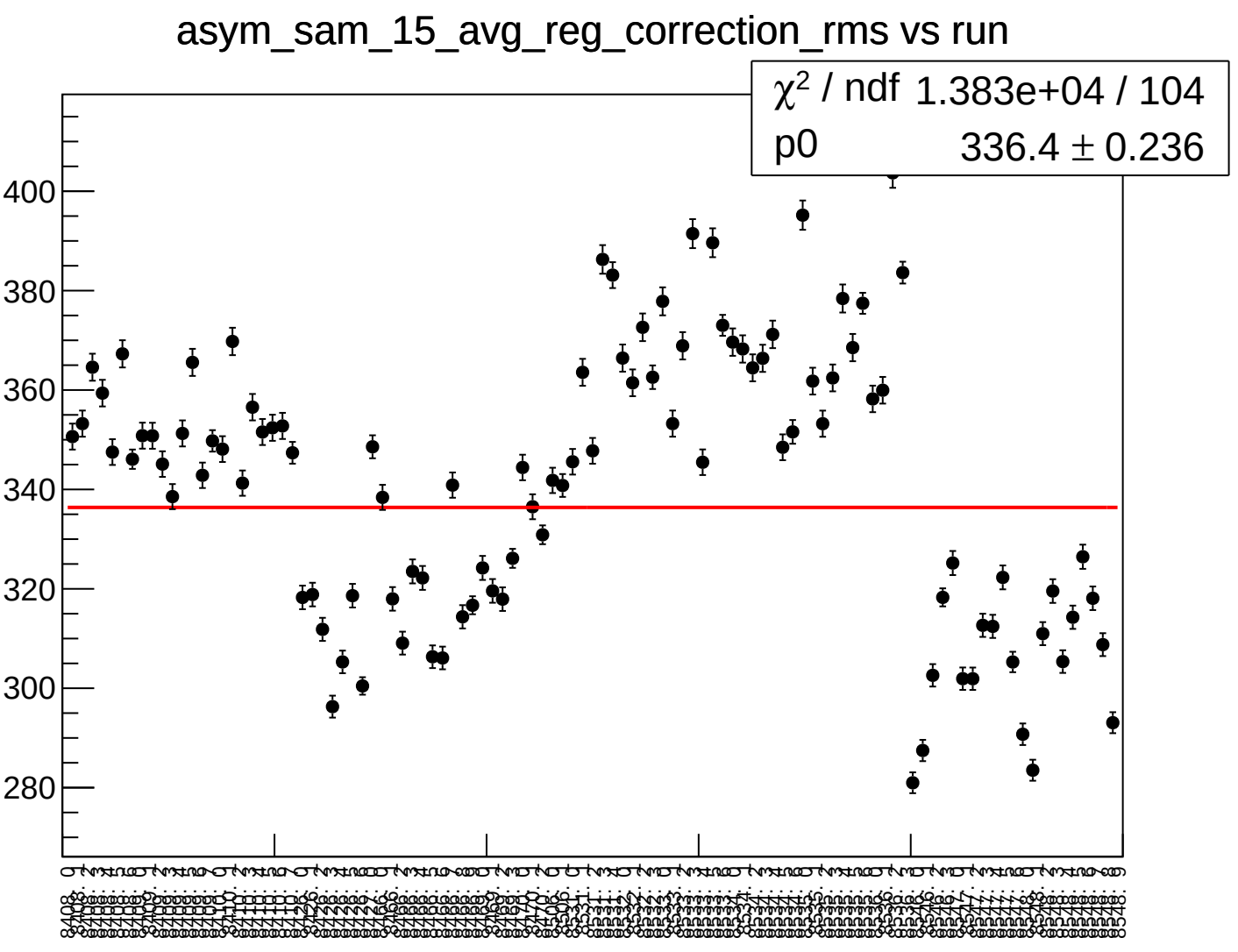

reg_asym_sam_15_avg_mean vs run
χ² / ndf 95.98 / 104
p0 84.43 ± 61.5
3000
2000
1000
0
−1000
−2000
pull
Entries 105
Mean 1.055e+04
Std Dev 0
2
1
0
−1
−2

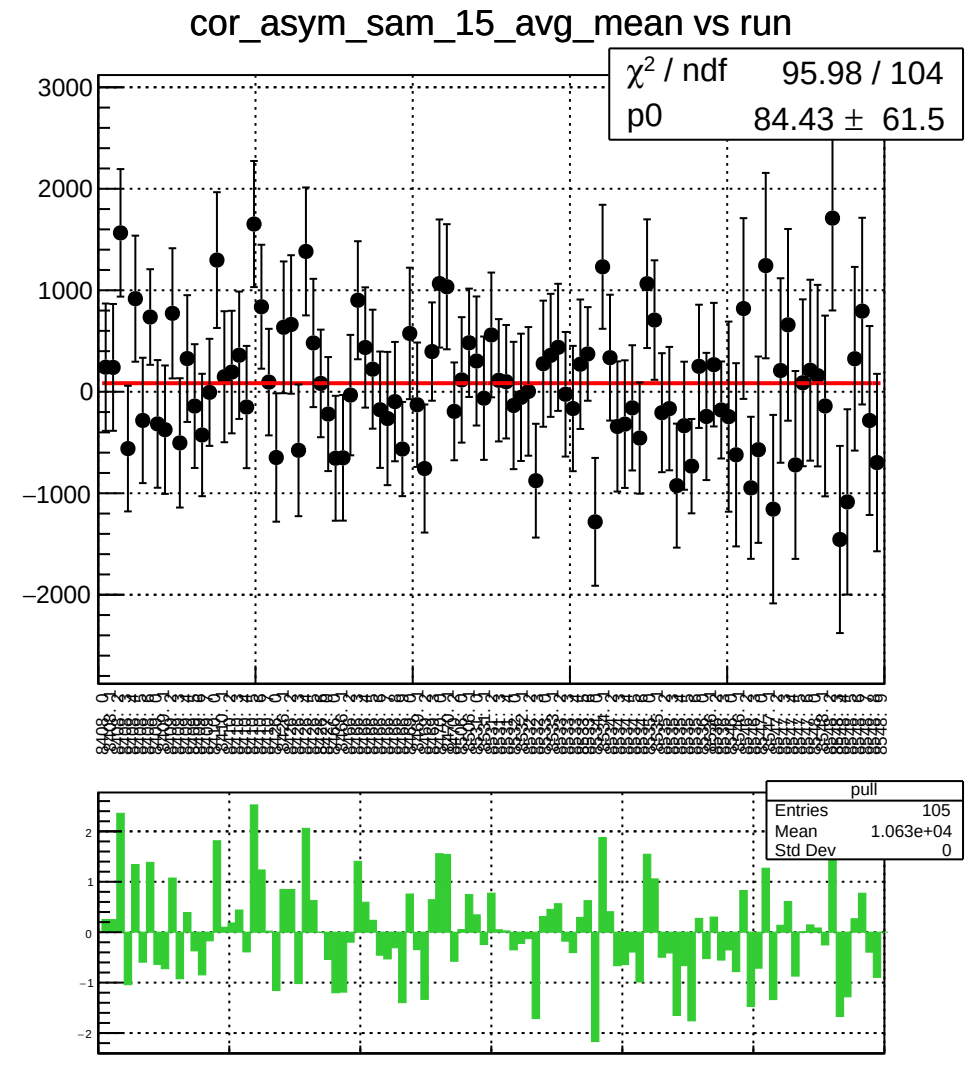

pull1D
Entries 105
Mean −0.0005539
Std Dev 0.9561
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

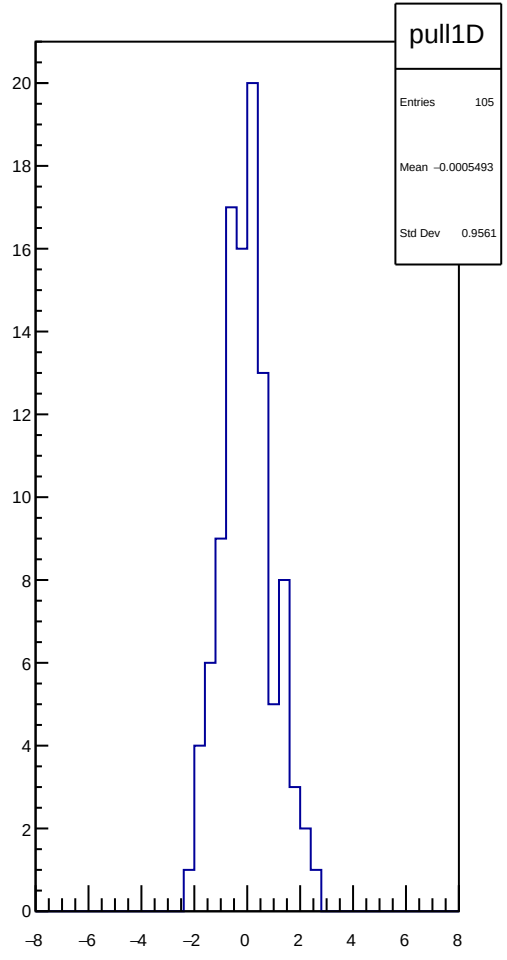

reg_asym_sam_15_avg_rms vs run
χ^2 / ndf 3.825e+04 / 104
p0 61.62 ± 0.04349
90
85
80
75
70
65
60
55

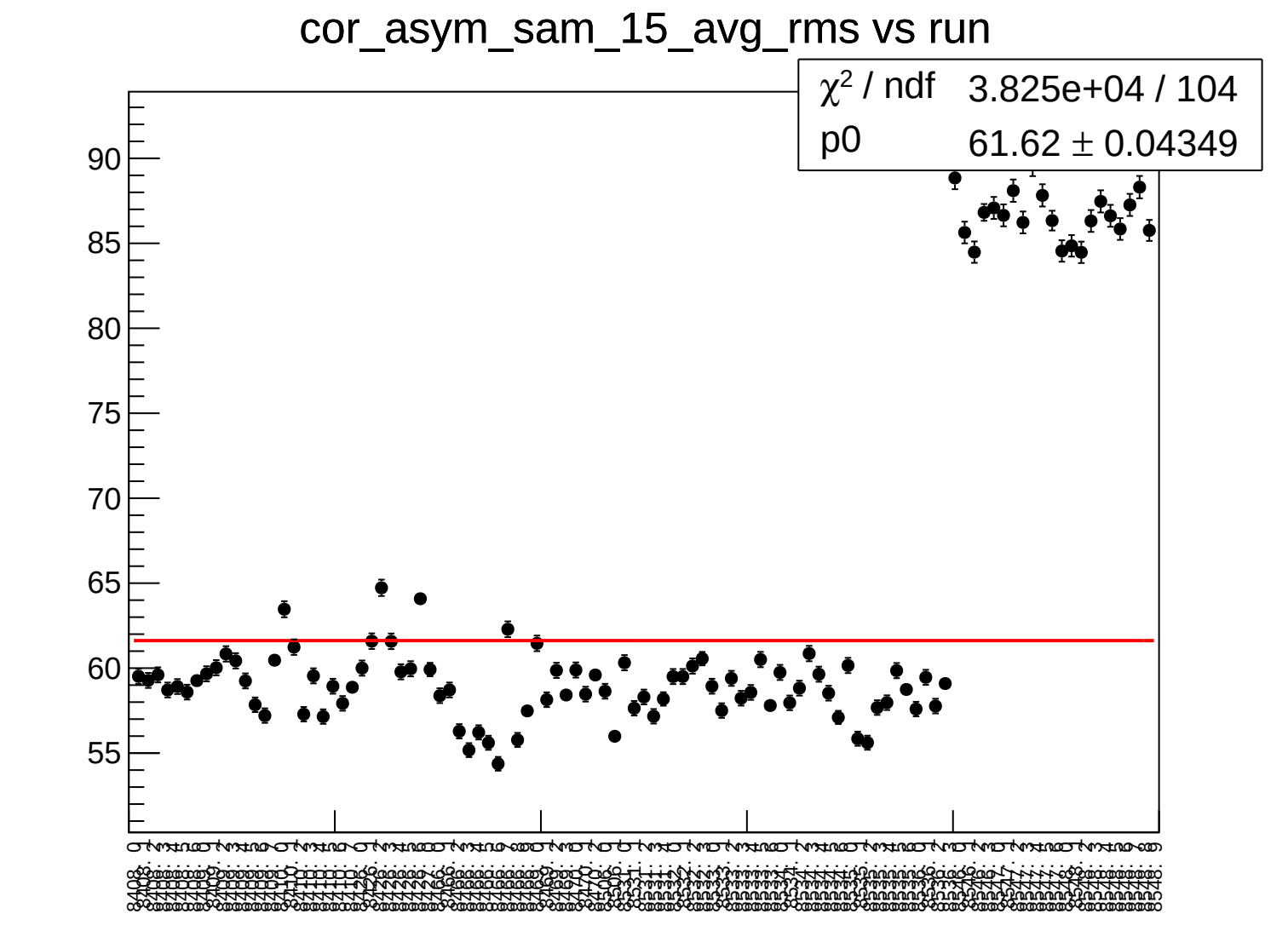

asym_sam_15_avg_reg_correction_mean vs run
χ² / ndf 123.3 / 104
p0 −1056 ± 333.7
10000
5000
0
−5000
−10000
−15000
pull
Entries 105
Mean 44.96
Std Dev 0
3
2
1
0
−1
−2
−3

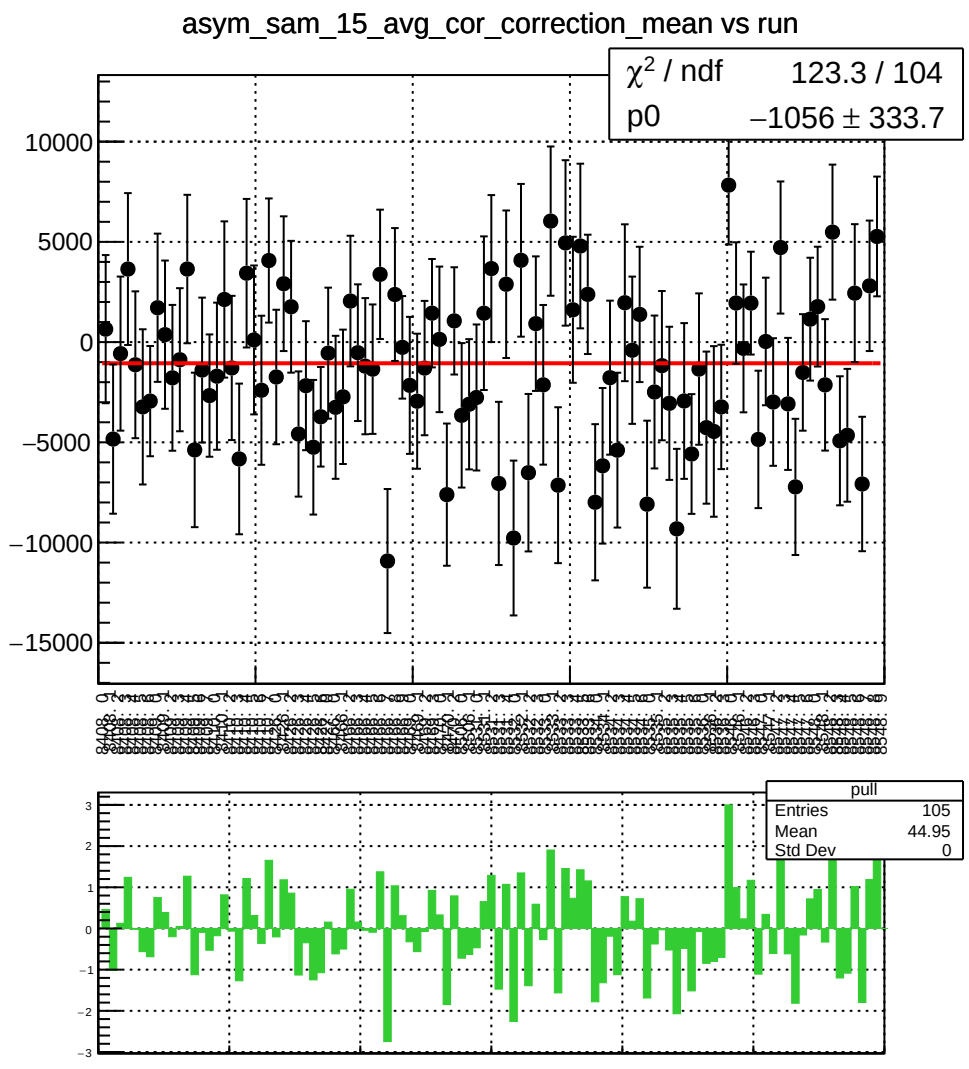

pull1D
Entries 105
Mean −0.02722
Std Dev 1.083
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

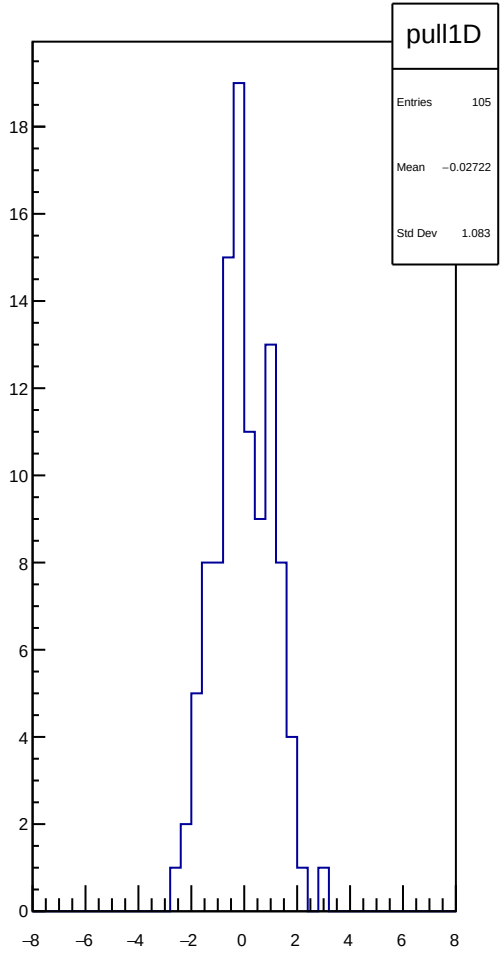

asym_sam_15_avg_reg_correction_rms vs run
χ² / ndf 1.383e+04 / 104
p0 336.4 ± 0.236
400
380
360
340
320
300
280

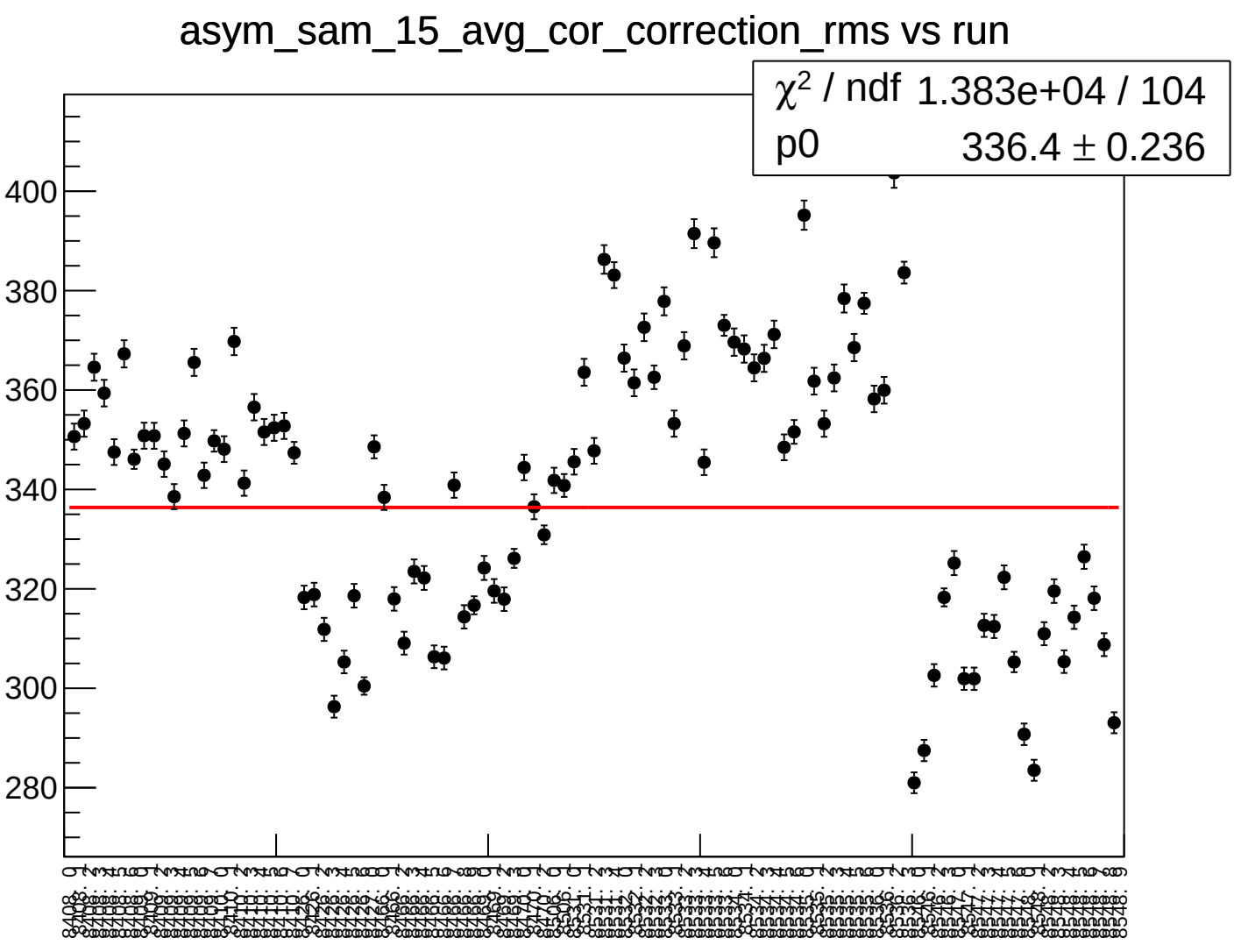

cor_asym_sam_15_avg_mean vs run
χ² / ndf 95.98 / 104
p0 84.43 ± 61.5
3000
2000
1000
0
−1000
−2000
pull
Entries 105
Mean 1.063e+04
Std Dev 0
2
1
0
−1
−2

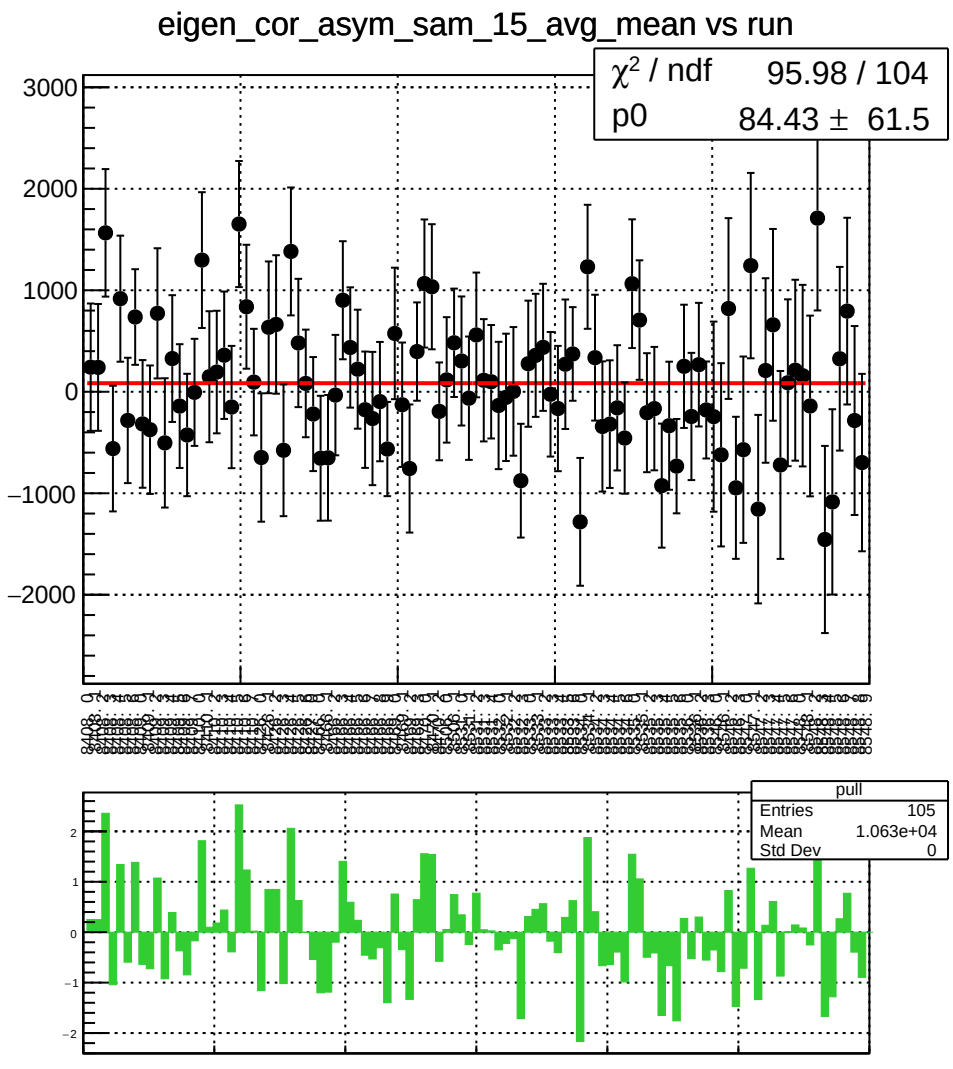

pull1D
Entries 105
Mean −0.0005493
Std Dev 0.9561
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

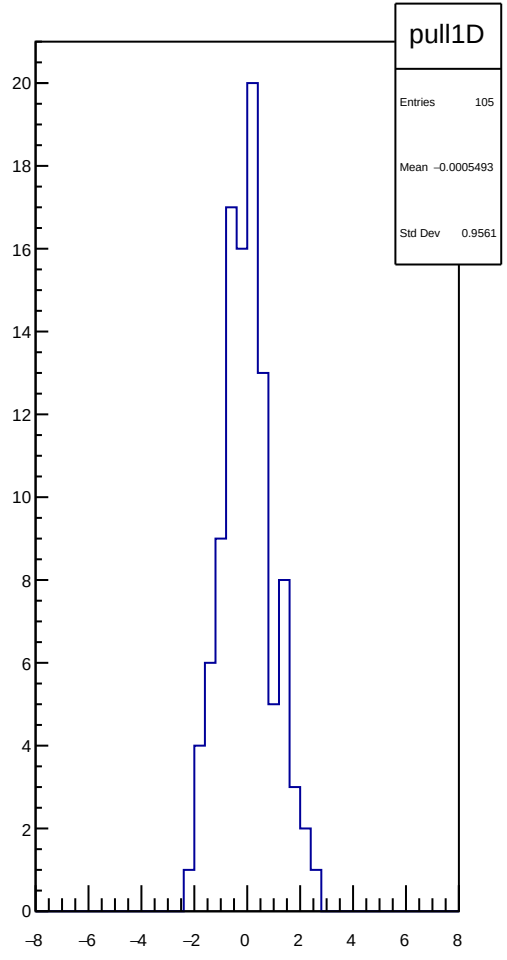

cor_asym_sam_15_avg_rms vs run
χ^2 / ndf 3.825e+04 / 104
p0 61.62 ± 0.04349
90
85
80
75
70
65
60
55

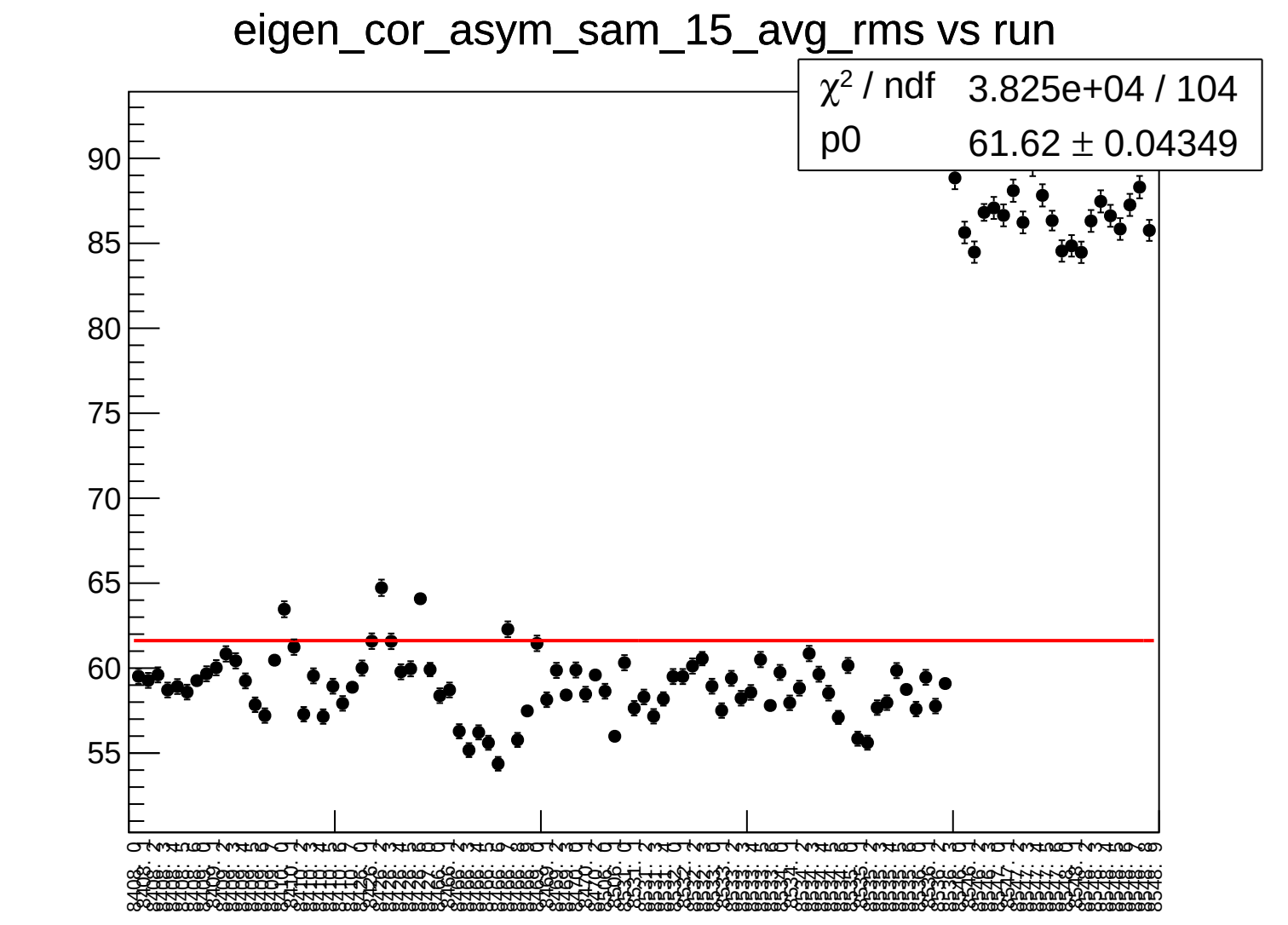

asym_sam_15_avg_cor_correction_mean vs run
χ² / ndf 123.3 / 104
p0 −1056 ± 333.7
10000
5000
0
−5000
−10000
−15000
pull
Entries 105
Mean 44.95
Std Dev 0
3
2
1
0
−1
−2
−3

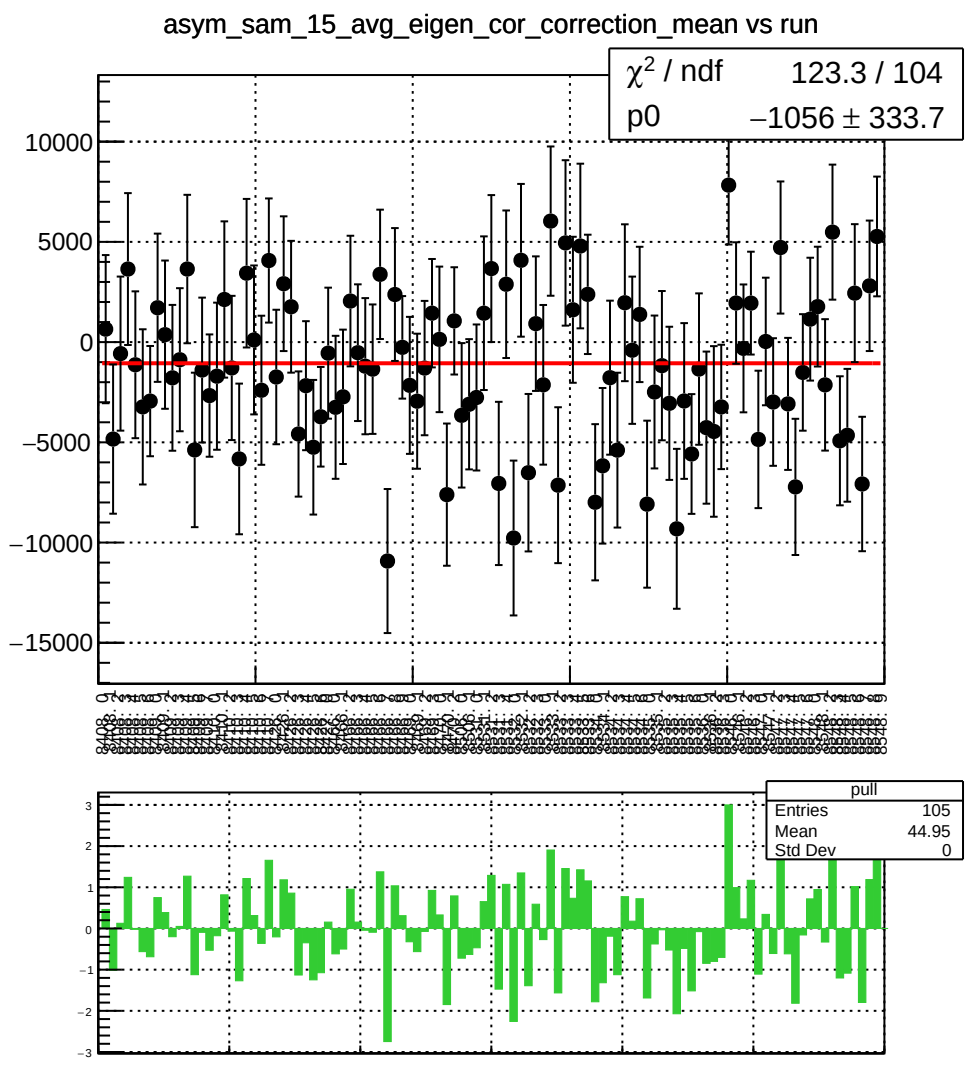

pull1D
Entries 105
Mean −0.02722
Std Dev 1.083
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

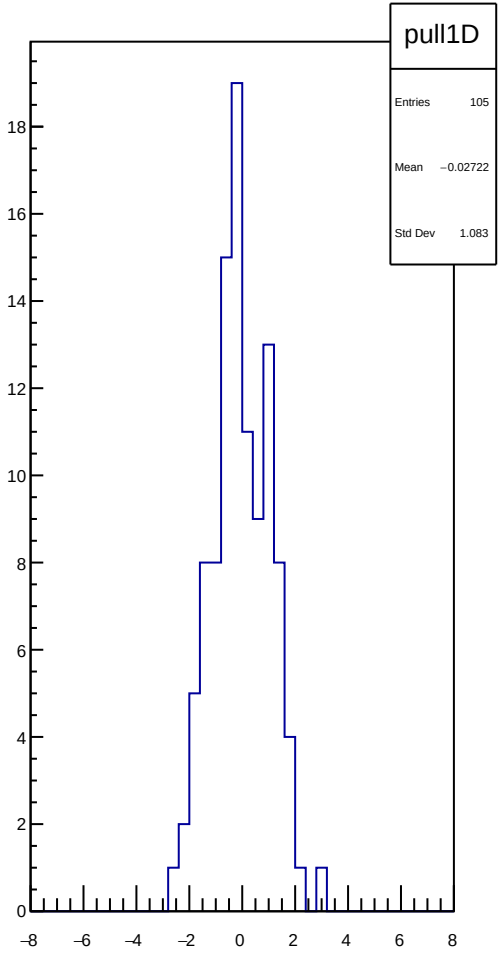

asym_sam_15_avg_cor_correction_rms vs run
χ² / ndf 1.383e+04 / 104
p0 336.4 ± 0.236
400
380
360
340
320
300
280

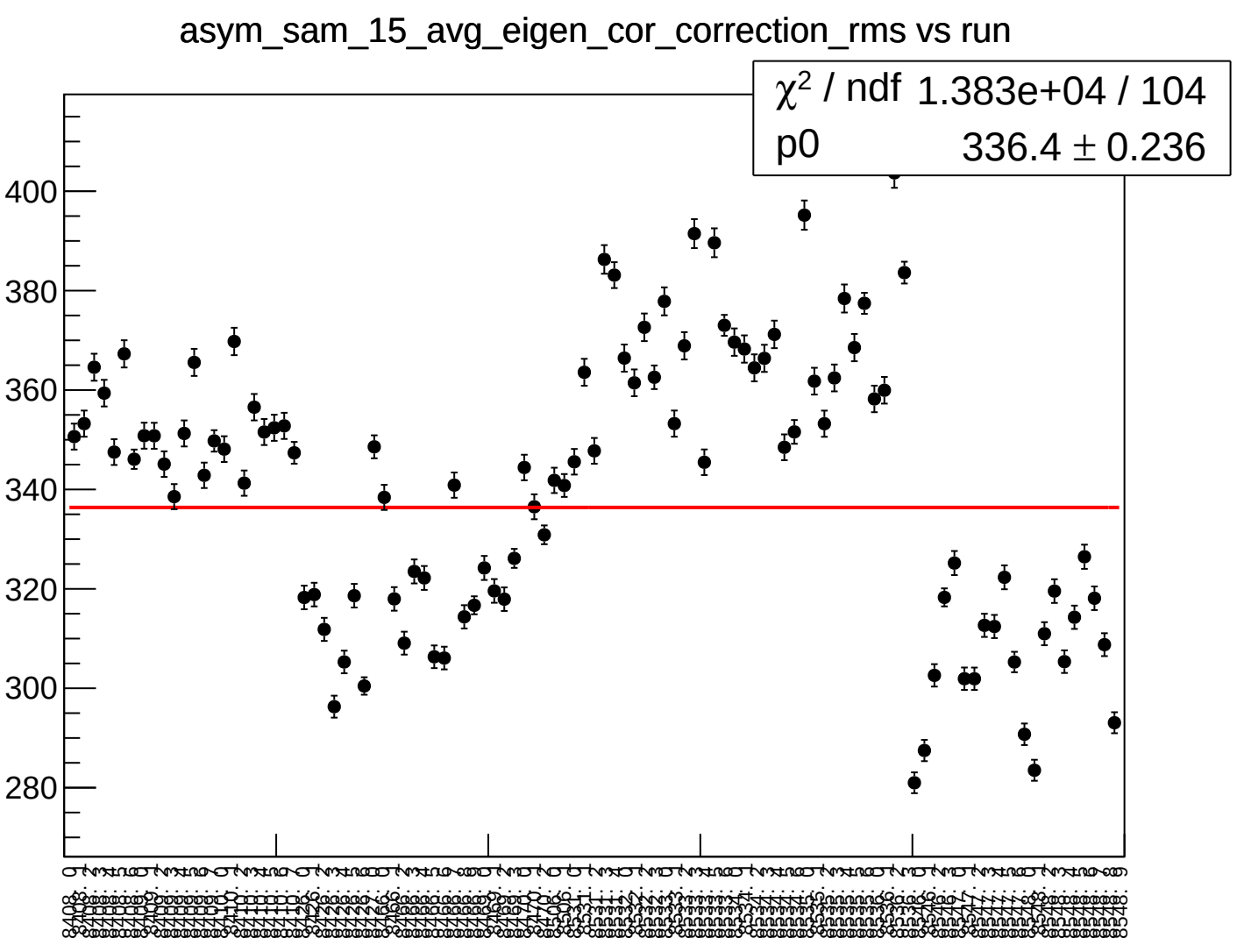

eigen_cor_asym_sam_15_avg_mean vs run
χ² / ndf 95.98 / 104
p0 84.43 ± 61.5
3000
2000
1000
0
−1000
−2000
pull
Entries 105
Mean 1.063e+04
Std Dev 0
2
1
0
−1
−2

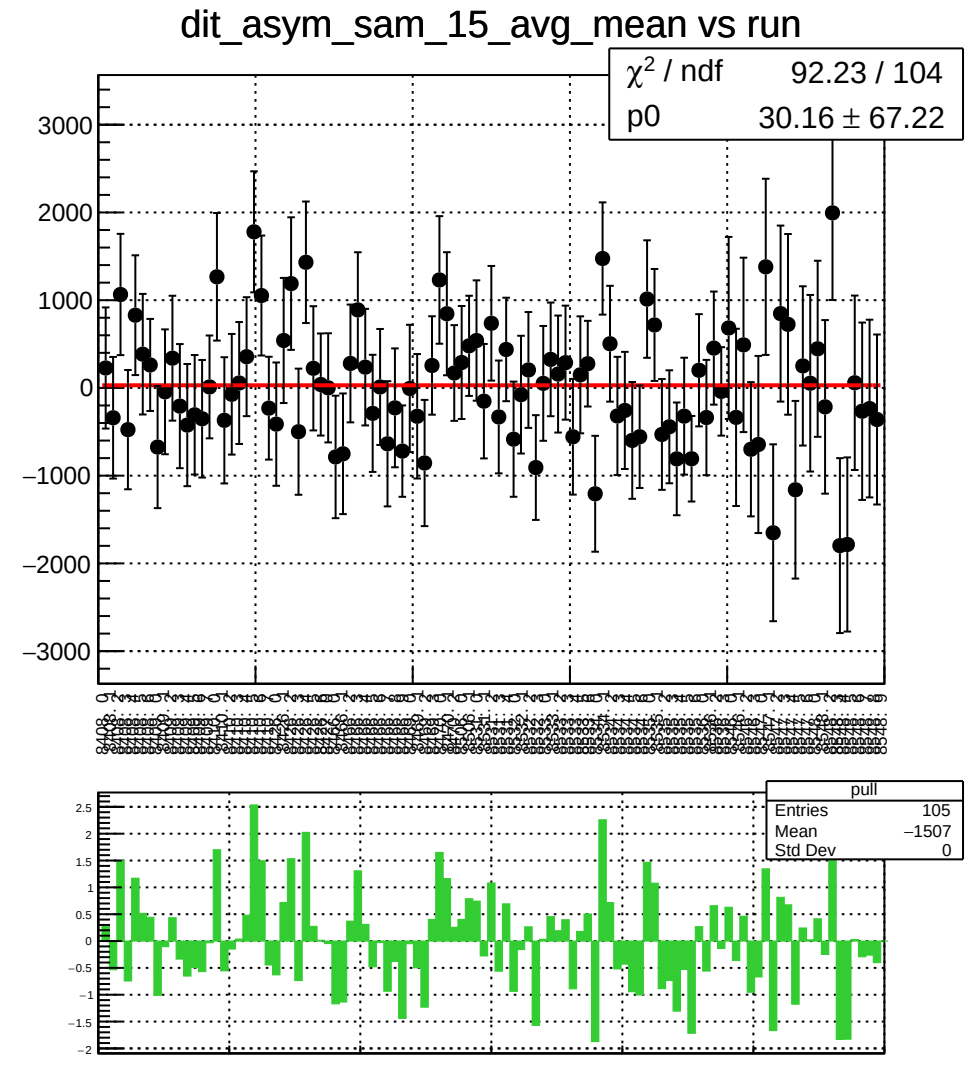

pull1D
Entries 105
Mean −0.0005493
Std Dev 0.9561
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

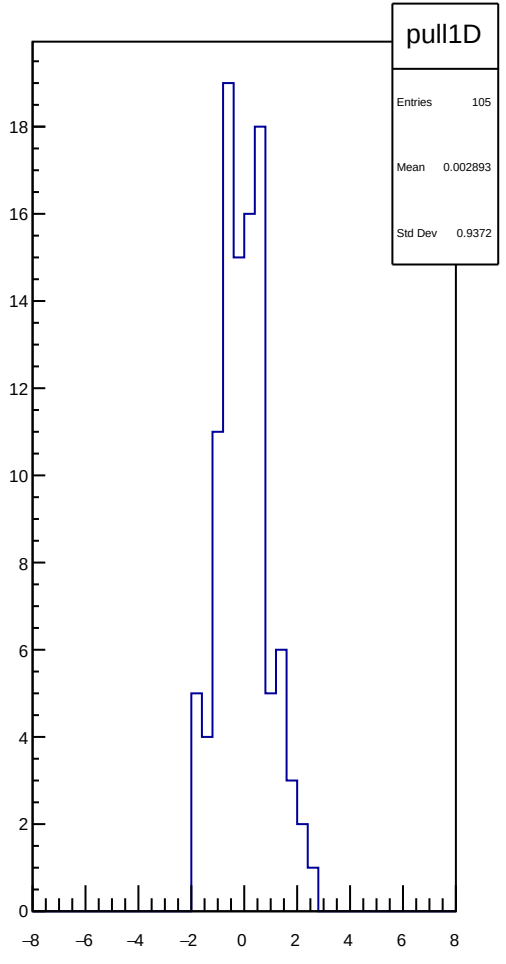

eigen_cor_asym_sam_15_avg_rms vs run
χ^2 / ndf 3.825e+04 / 104
p0 61.62 ± 0.04349
90
85
80
75
70
65
60
55

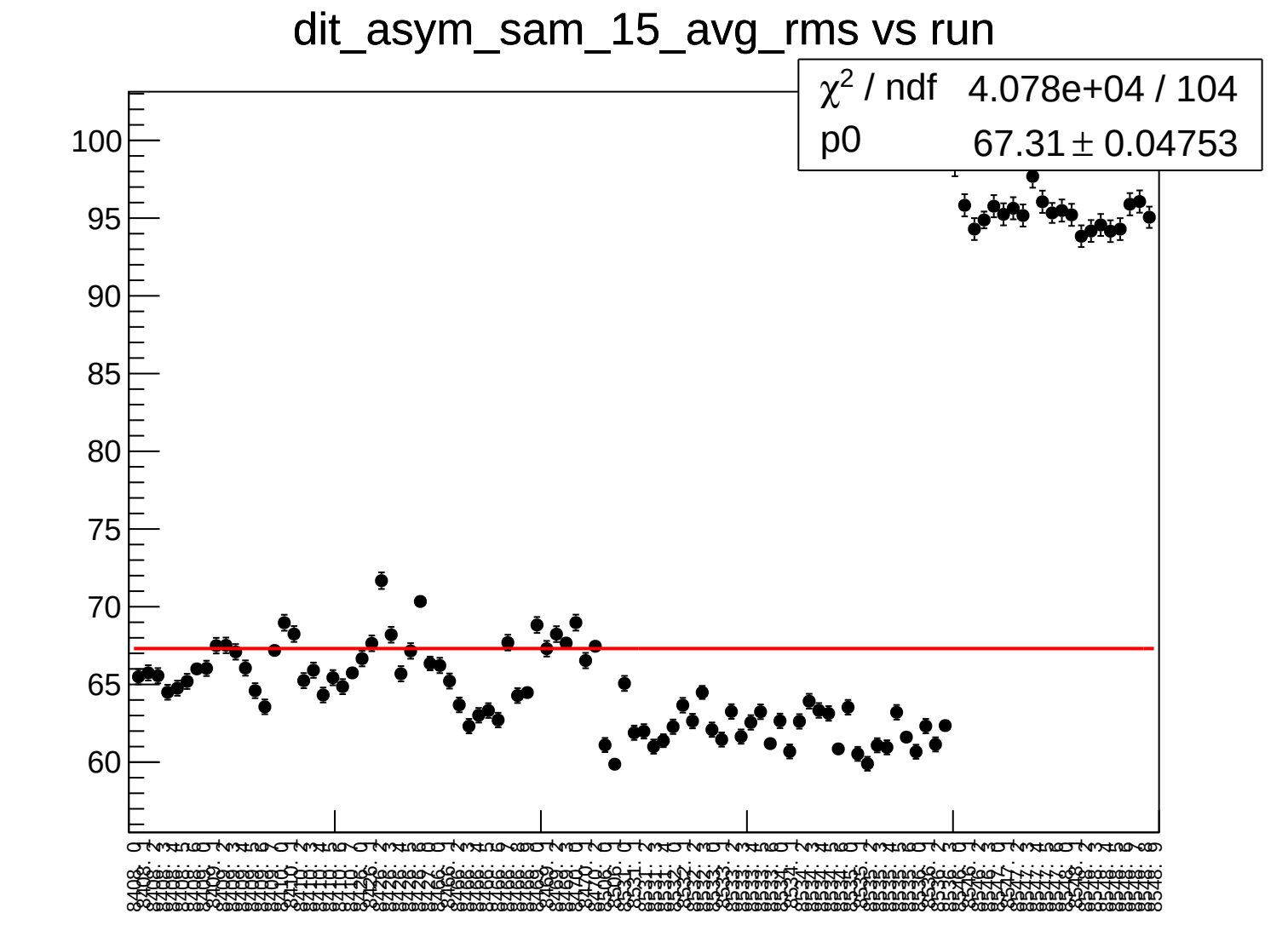

asym_sam_15_avg_eigen_cor_correction_mean vs run
χ² / ndf 123.3 / 104
p0 −1056 ± 333.7
10000
5000
0
−5000
−10000
−15000
pull
Entries 105
Mean 44.95
Std Dev 0
3
2
1
0
−1
−2
−3

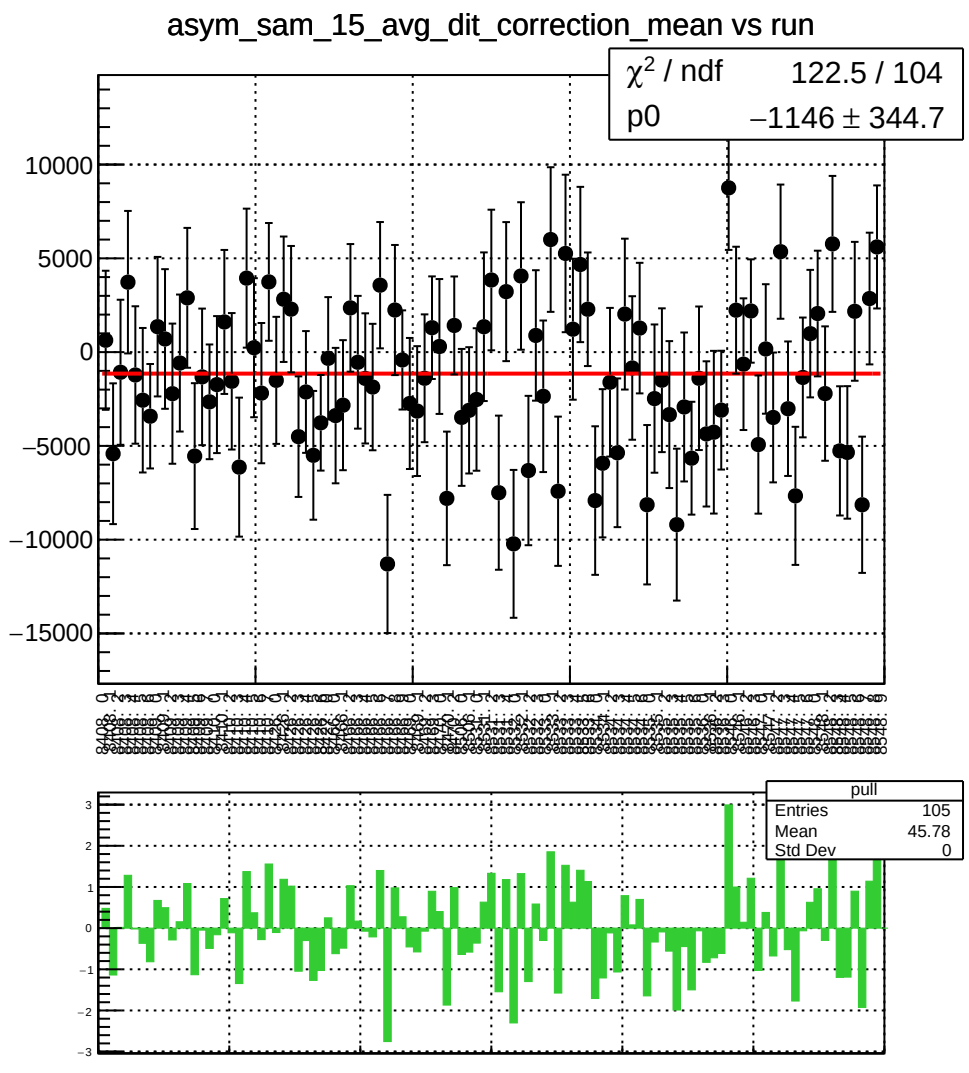

pull1D
Entries 105
Mean −0.02722
Std Dev 1.083
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

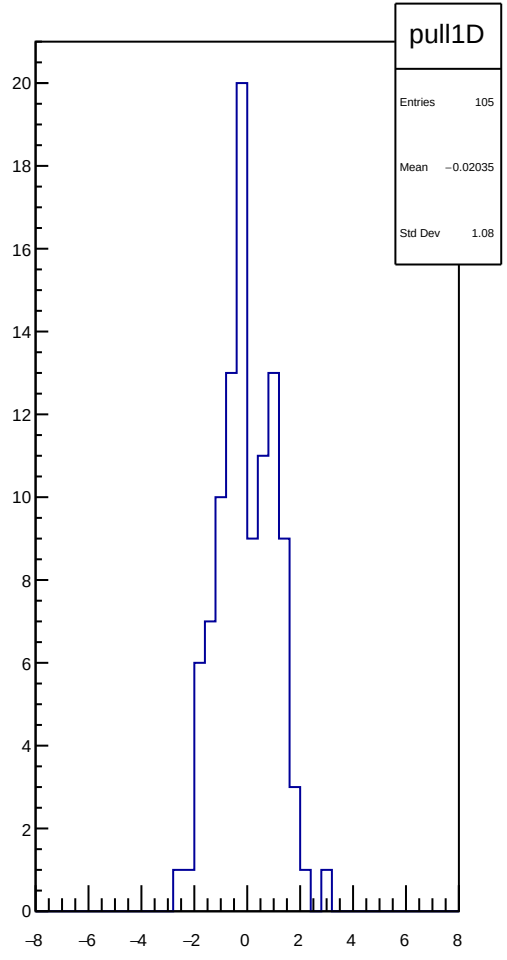

asym_sam_15_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.383e+04 / 104
p0 336.4 ± 0.236
400
380
360
340
320
300
280

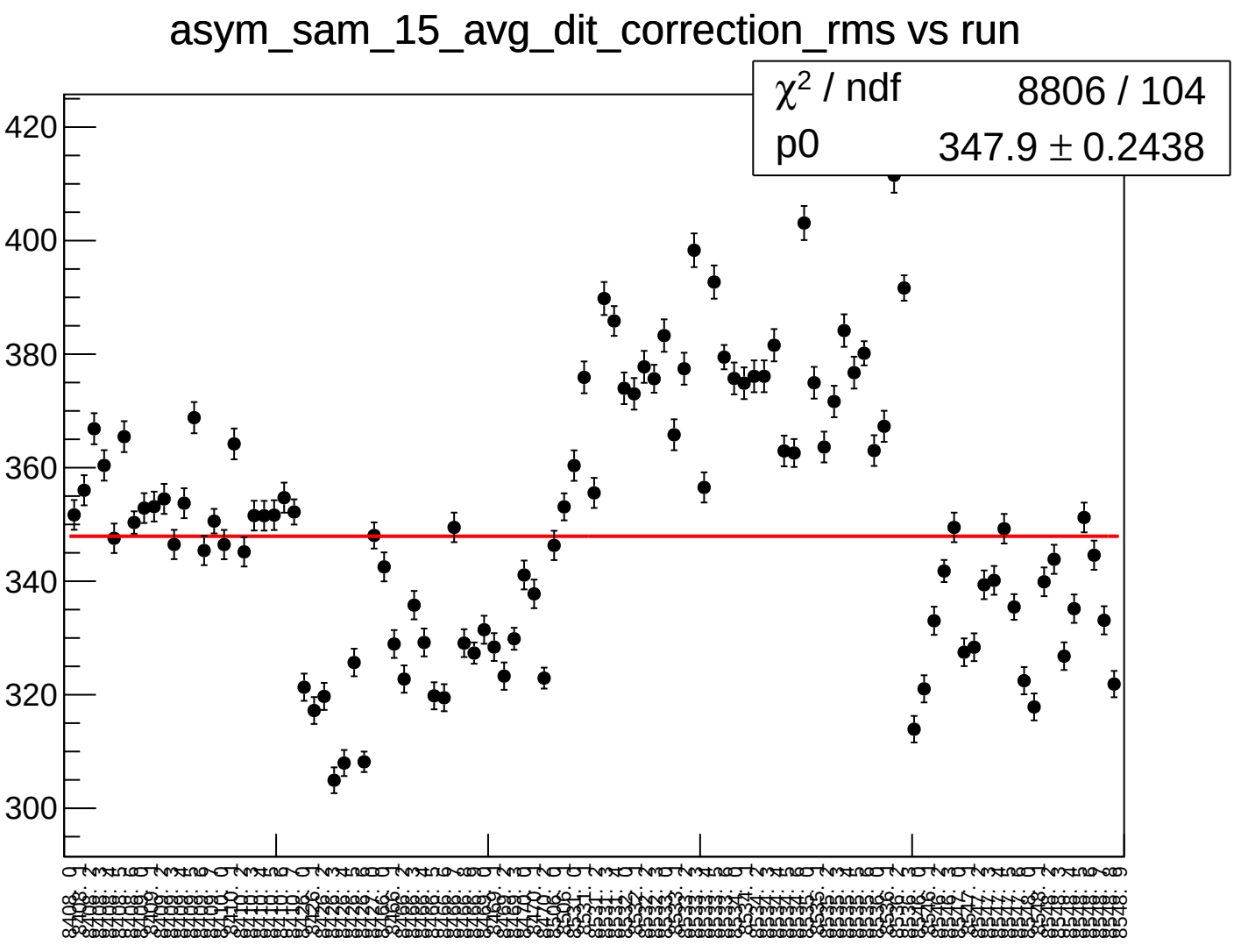

dit_asym_sam_15_avg_mean vs run
χ² / ndf 92.23 / 104
p0 30.16 ± 67.22
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 105
Mean −1507
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

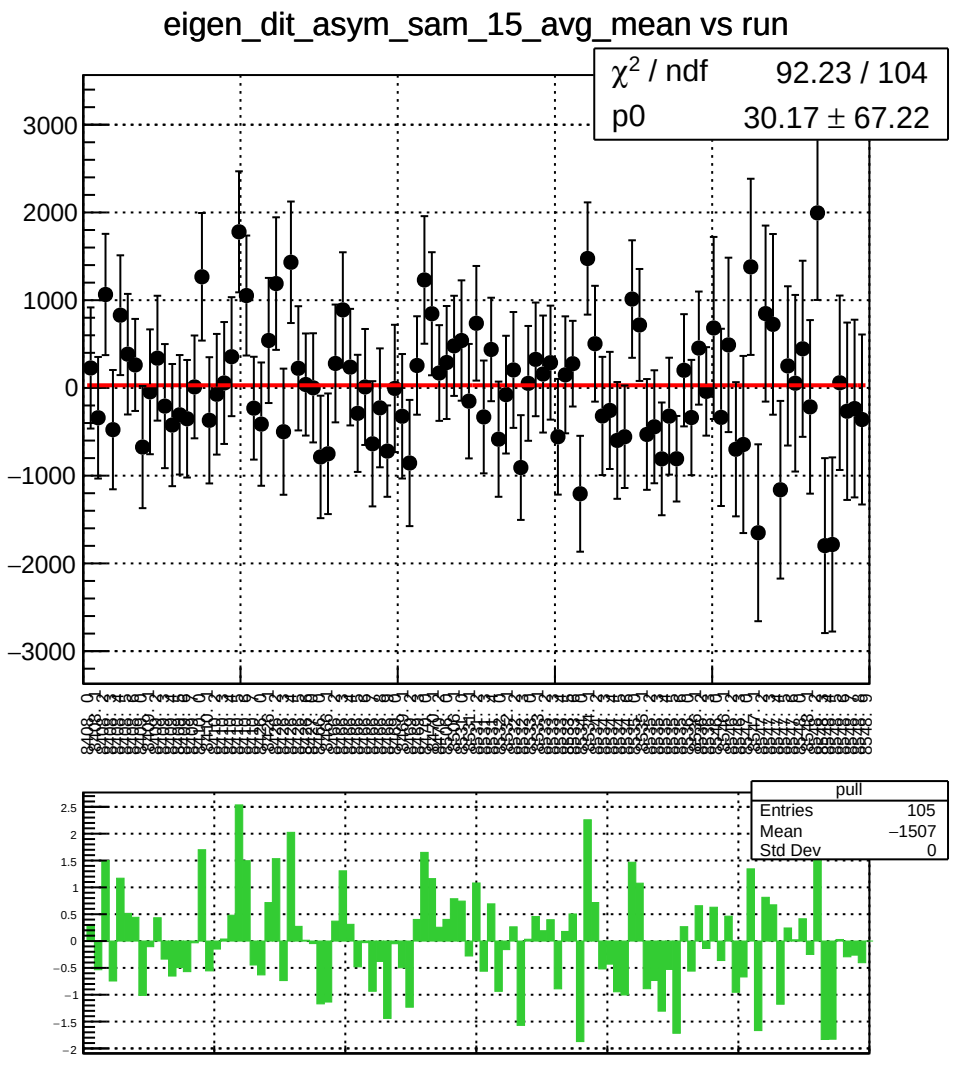

pull1D
Entries 105
Mean 0.002893
Std Dev 0.9372
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

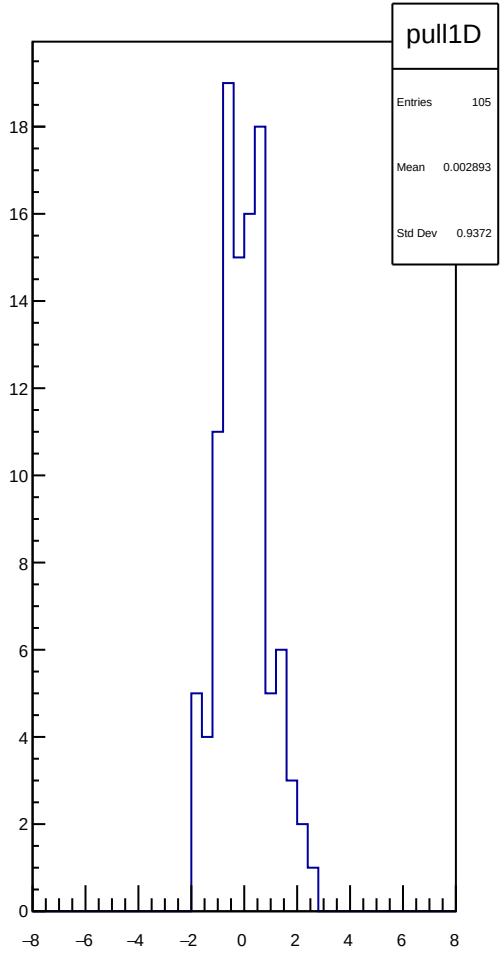

dit_asym_sam_15_avg_rms vs run
χ^2 / ndf 4.078e+04 / 104
p0 67.31 ± 0.04753
100
95
90
85
80
75
70
65
60

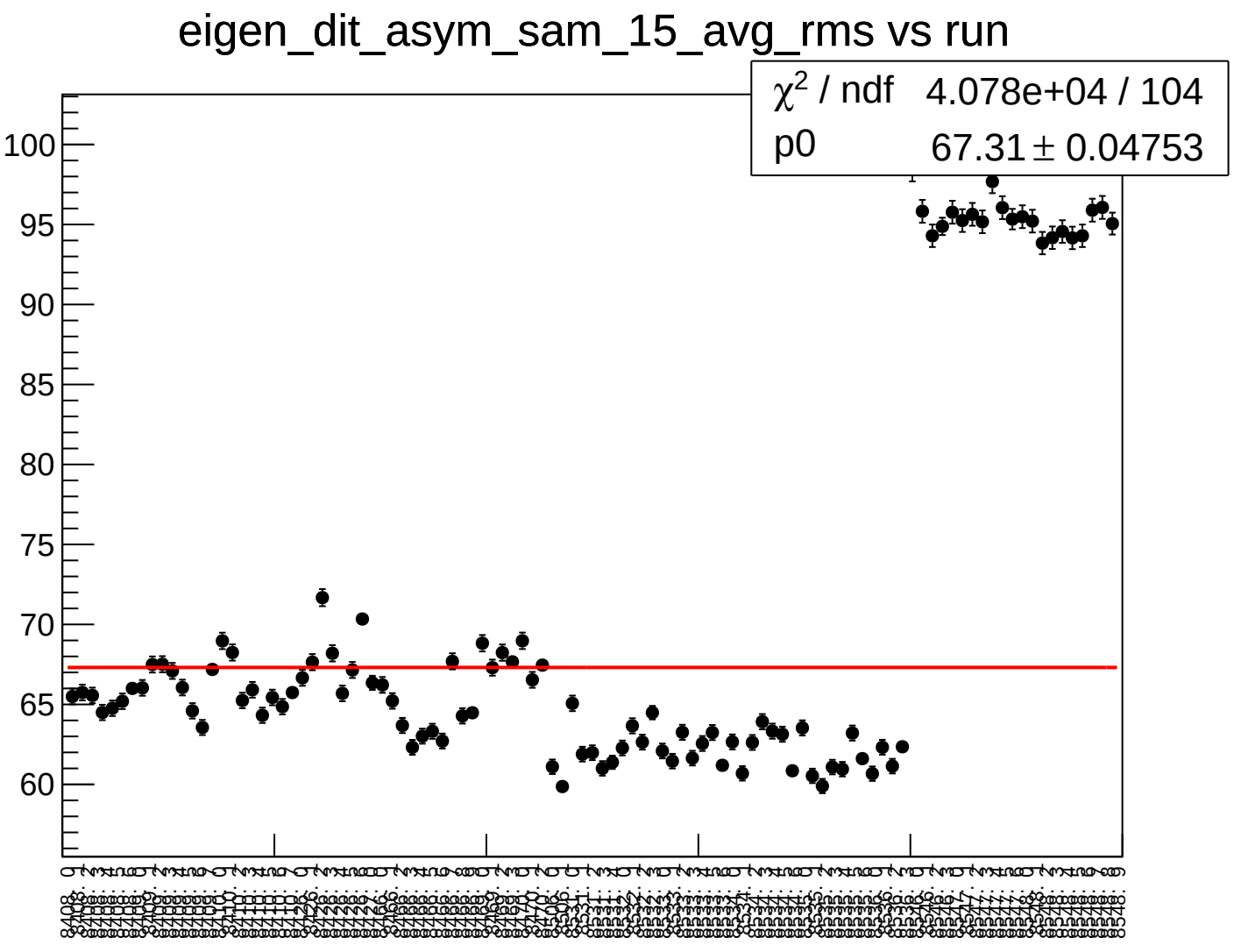

asym_sam_15_avg_dit_correction_mean vs run
χ² / ndf 122.5 / 104
p0 −1146 ± 344.7
10000
5000
0
−5000
−10000
−15000
pull
Entries 105
Mean 45.78
Std Dev 0
3
2
1
0
−1
−2
−3

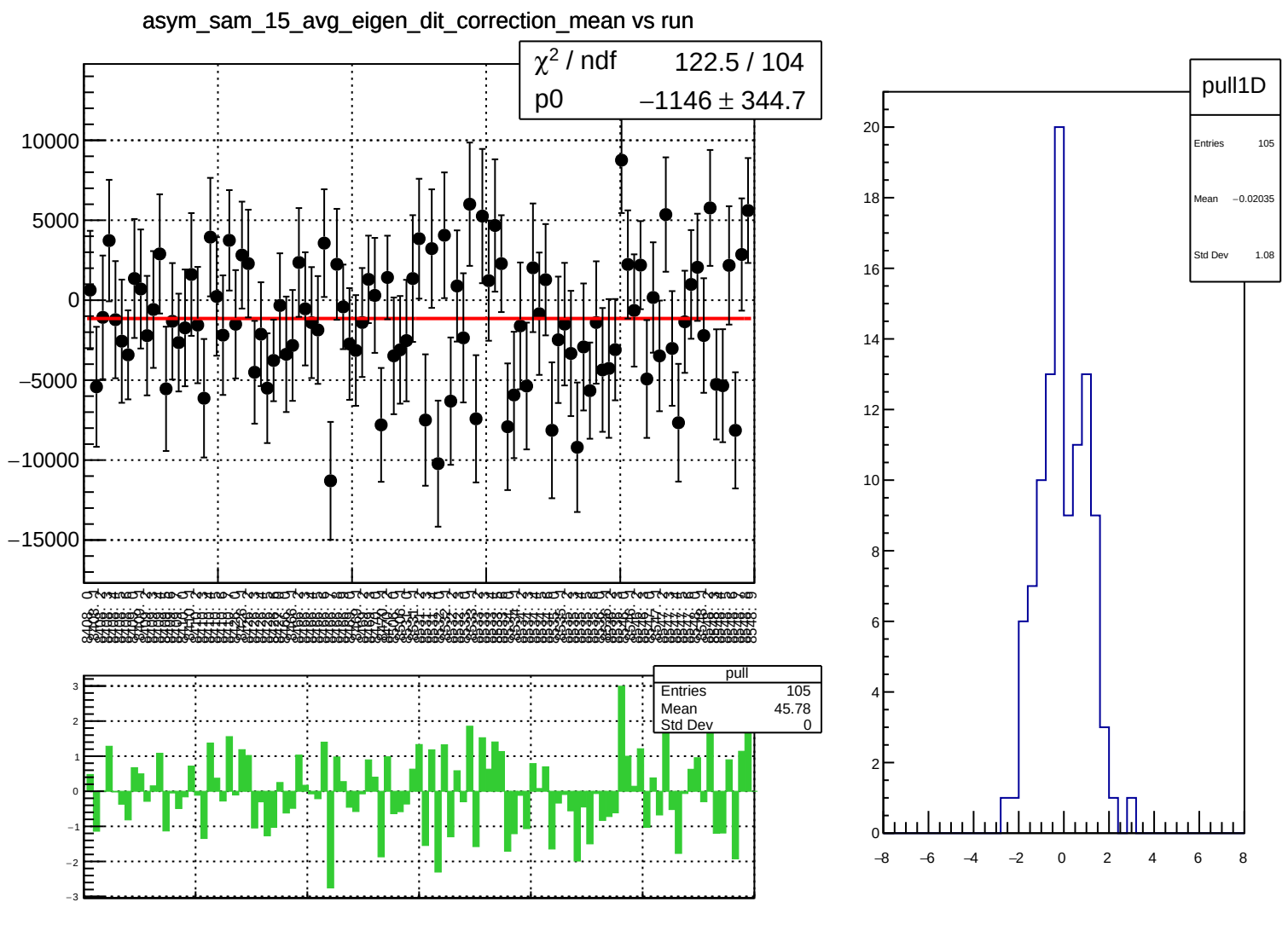

pull1D
Entries 105
Mean −0.02035
Std Dev 1.08
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

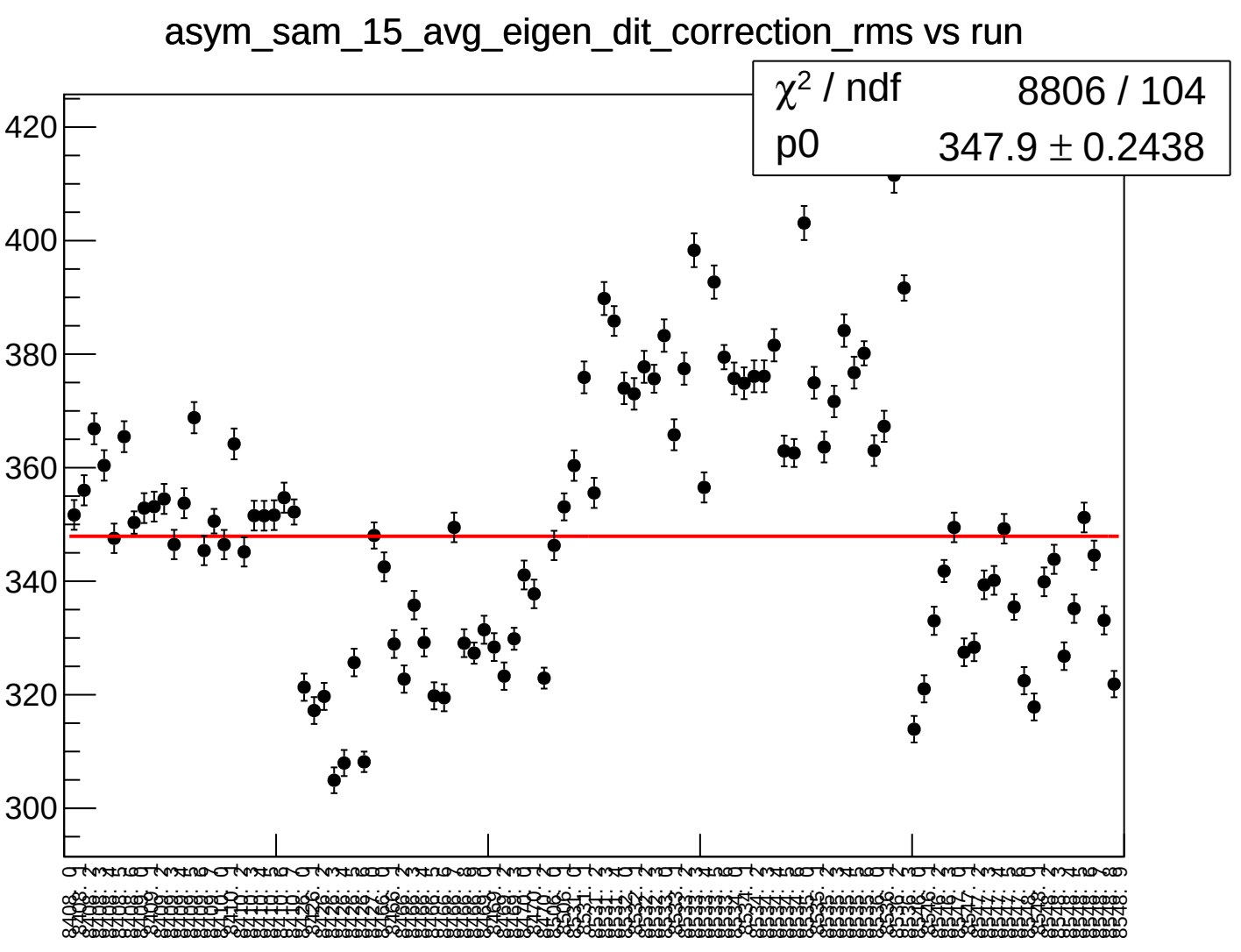

asym_sam_15_avg_dit_correction_rms vs run
χ² / ndf 8806 / 104
p0 347.9 ± 0.2438
420
400
380
360
340
320
300

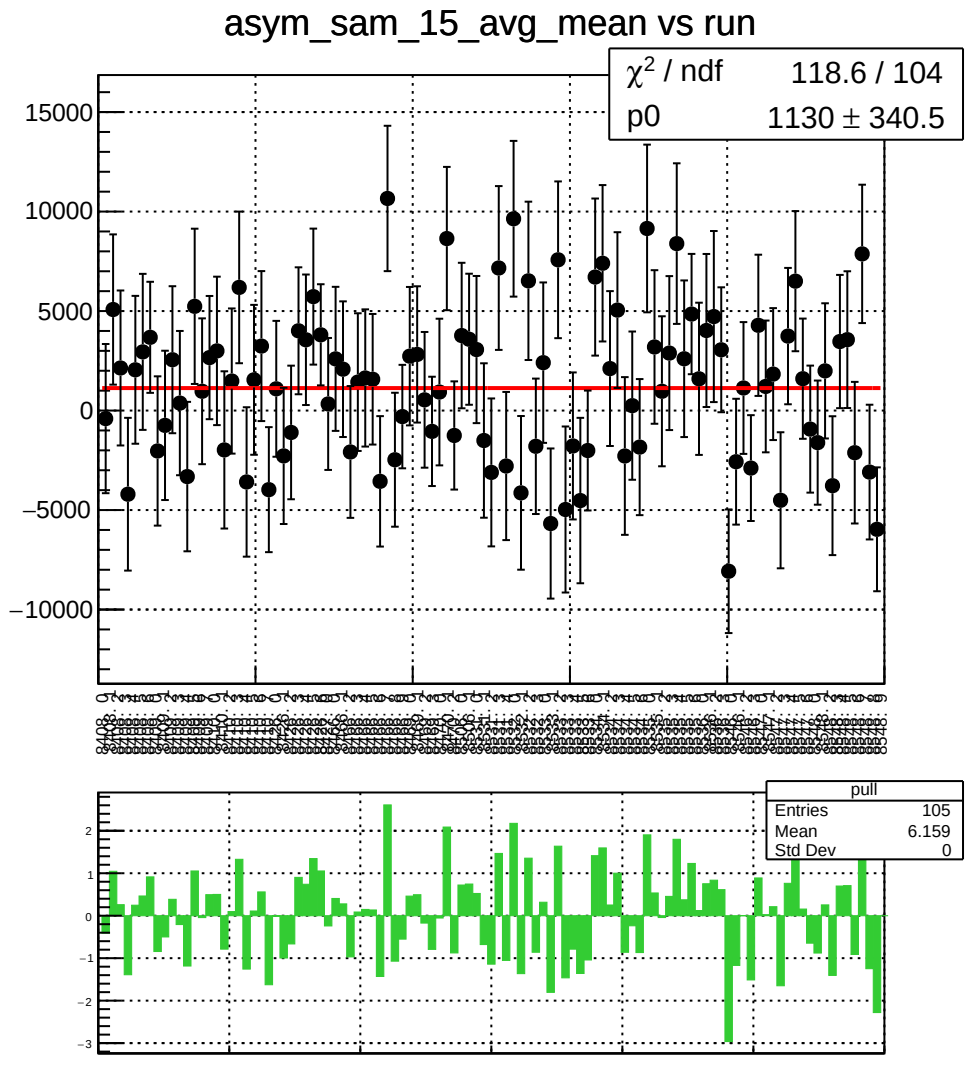

eigen_dit_asym_sam_15_avg_mean vs run
χ² / ndf 92.23 / 104
p0 30.17 ± 67.22
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 105
Mean −1507
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

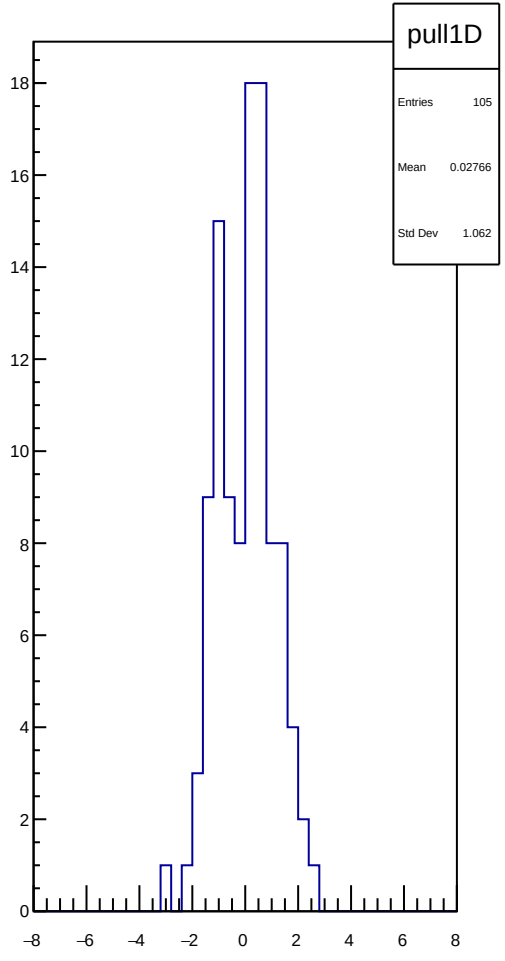

pull1D
Entries 105
Mean 0.002893
Std Dev 0.9372
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

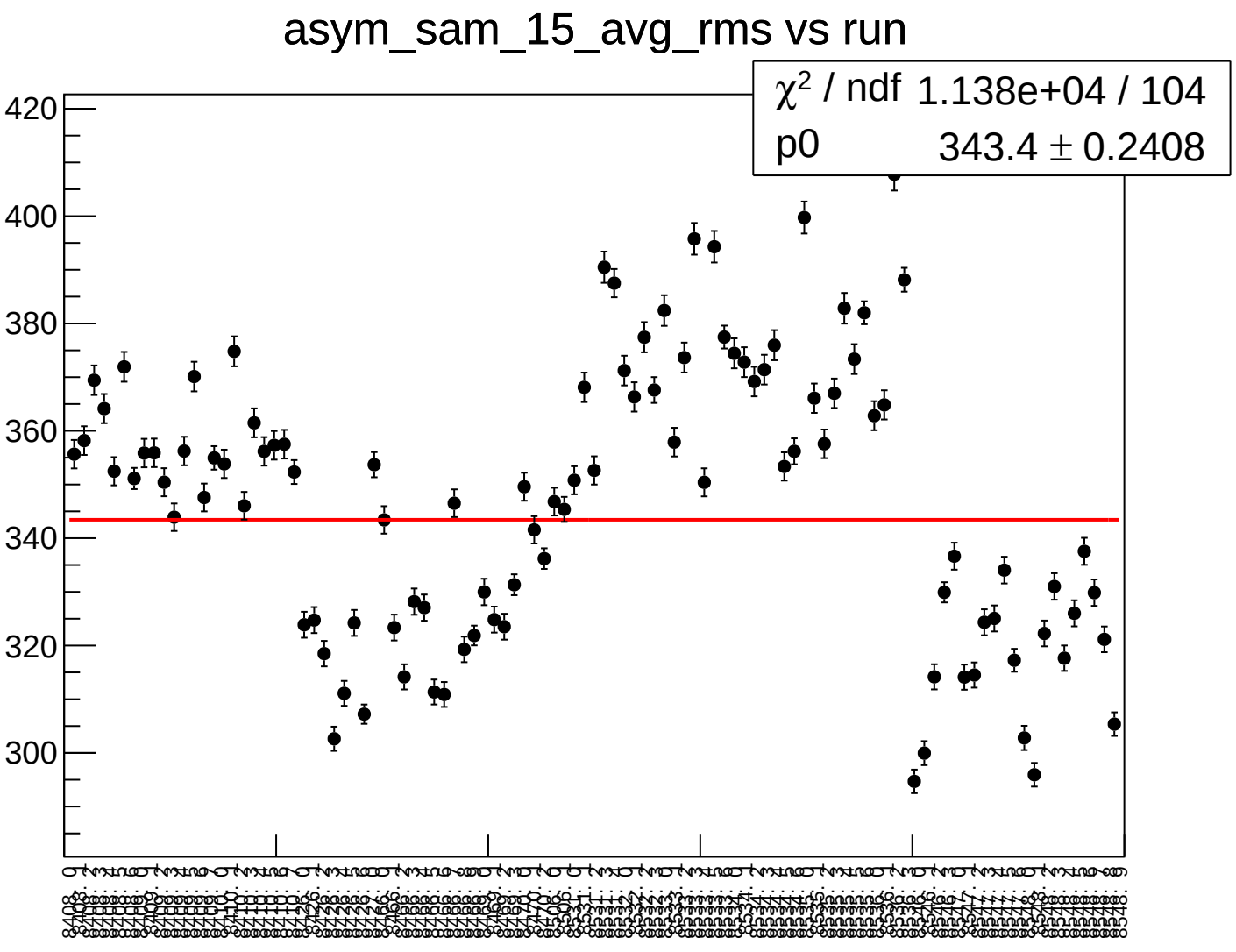

eigen_dit_asym_sam_15_avg_rms vs run
χ^2 / ndf 4.078e+04 / 104
p0 67.31 ± 0.04753
100
95
90
85
80
75
70
65
60

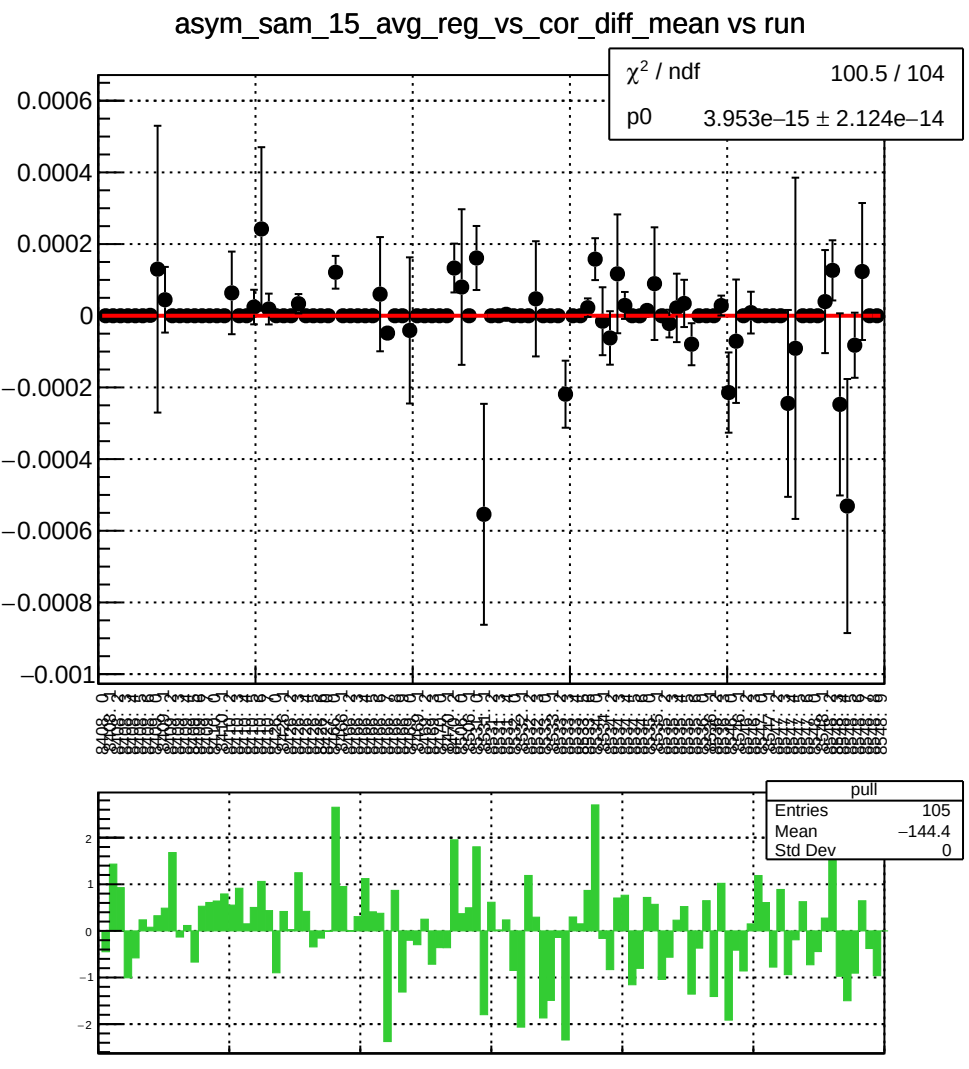

asym_sam_15_avg_eigen_dit_correction_mean vs run
χ² / ndf 122.5 / 104
p0 −1146 ± 344.7
10000
5000
0
−5000
−10000
−15000
pull
Entries 105
Mean 45.78
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 105
Mean −0.02035
Std Dev 1.08
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

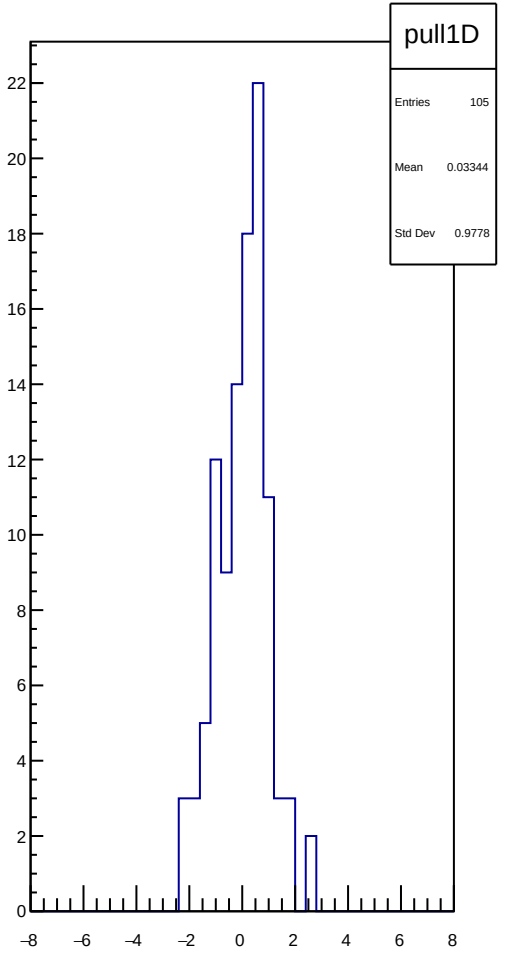

asym_sam_15_avg_eigen_dit_correction_rms vs run
χ² / ndf 8806 / 104
p0 347.9 ± 0.2438
420
400
380
360
340
320
300

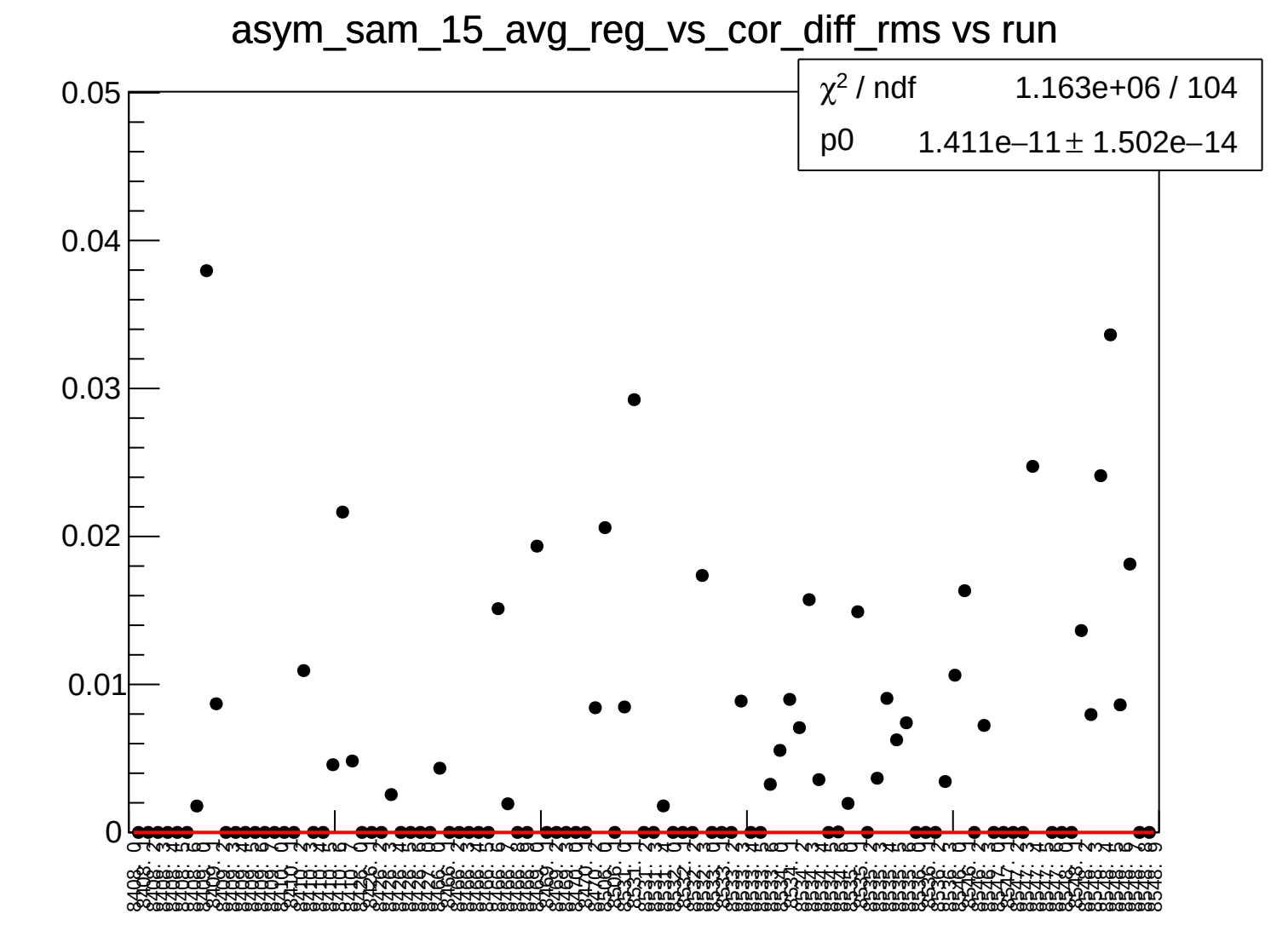

asym_sam_15_avg_mean vs run
χ² / ndf 118.6 / 104
p0 1130 ± 340.5
15000
10000
5000
0
−5000
−10000
pull
Entries 105
Mean 6.159
Std Dev 0
2
1
0
−1
−2
−3

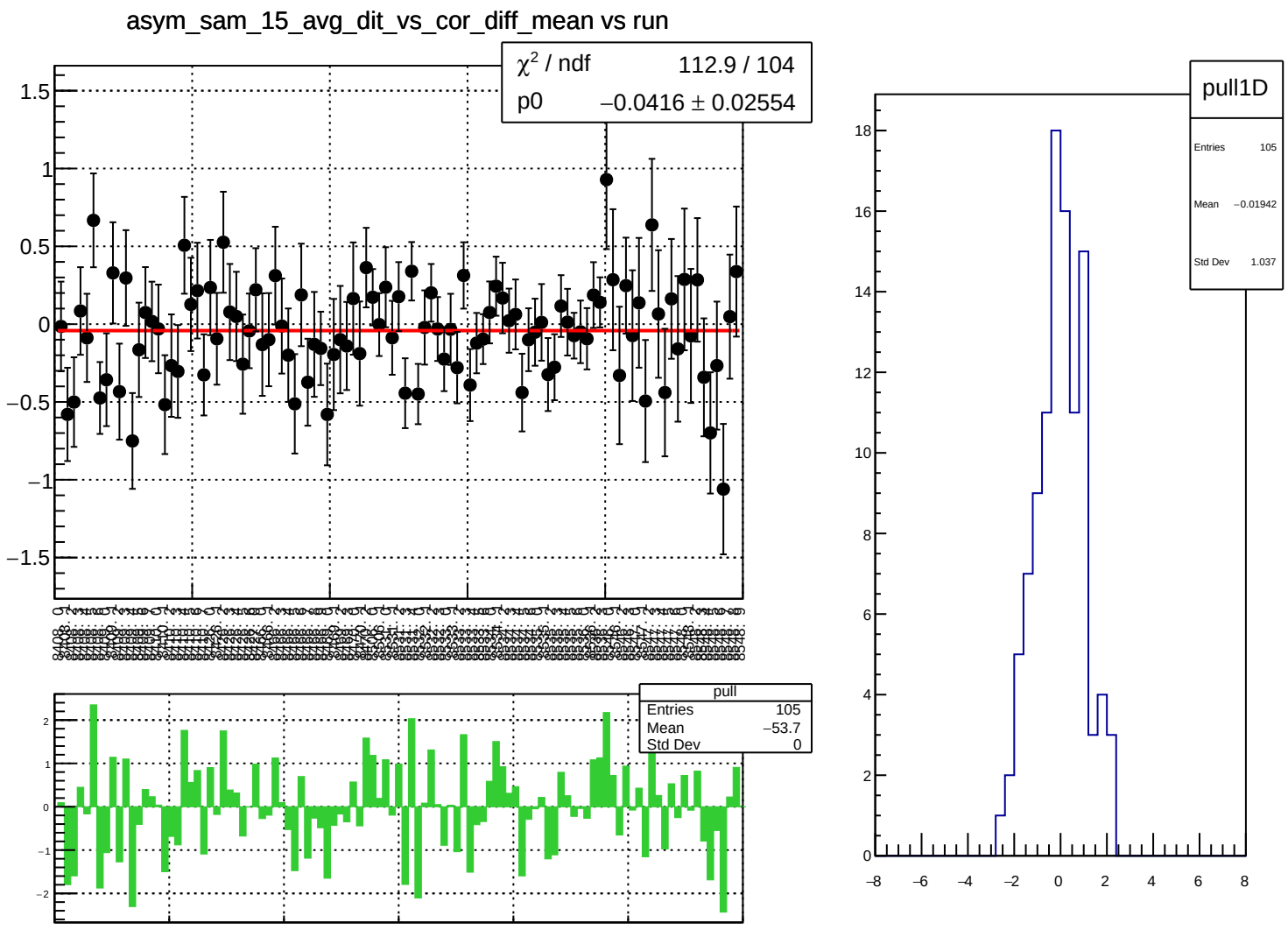

pull1D
Entries 105
Mean 0.02766
Std Dev 1.062
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

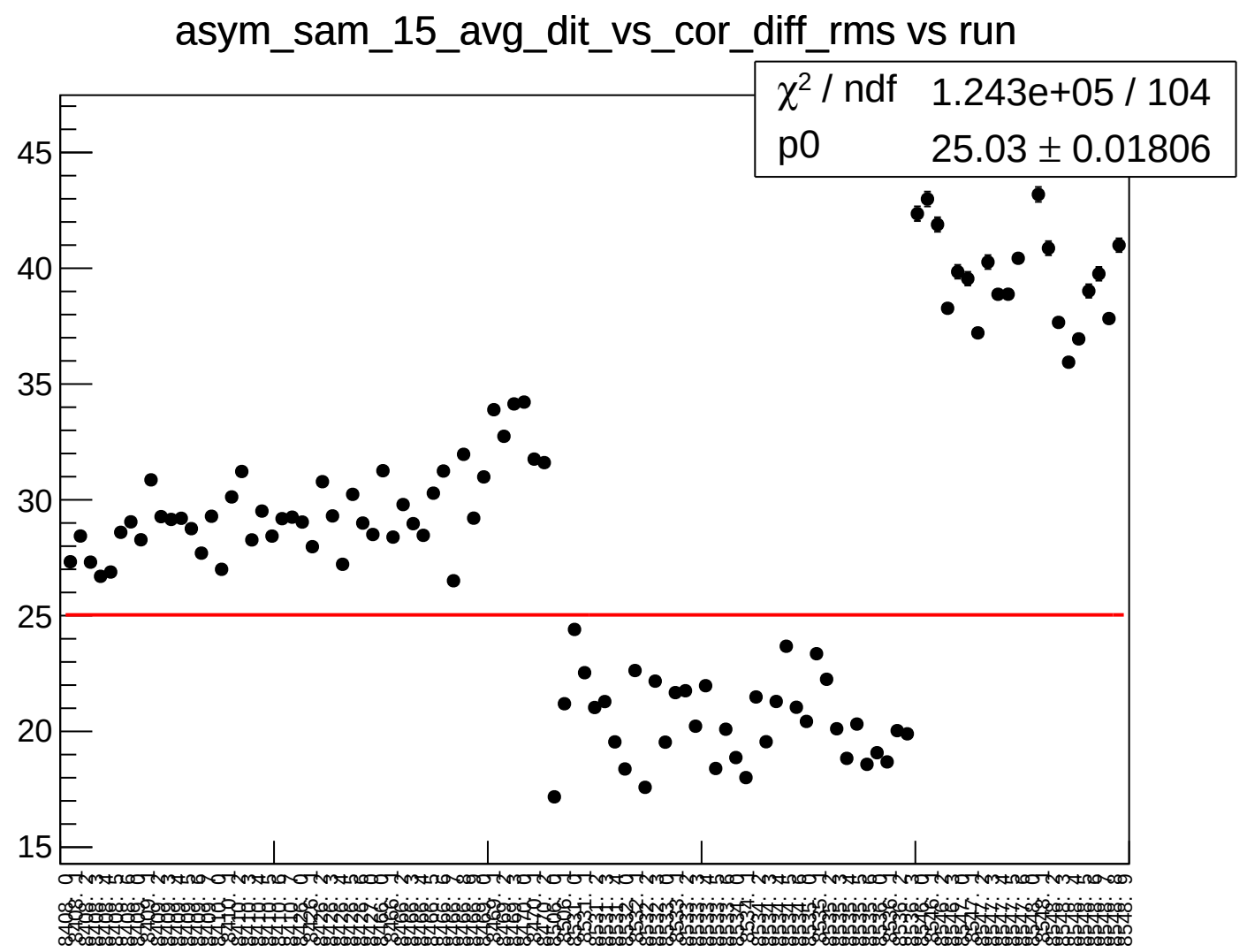

asym_sam_15_avg_rms vs run
χ² / ndf 1.138e+04 / 104
p0 343.4 ± 0.2408
420
400
380
360
340
320
300

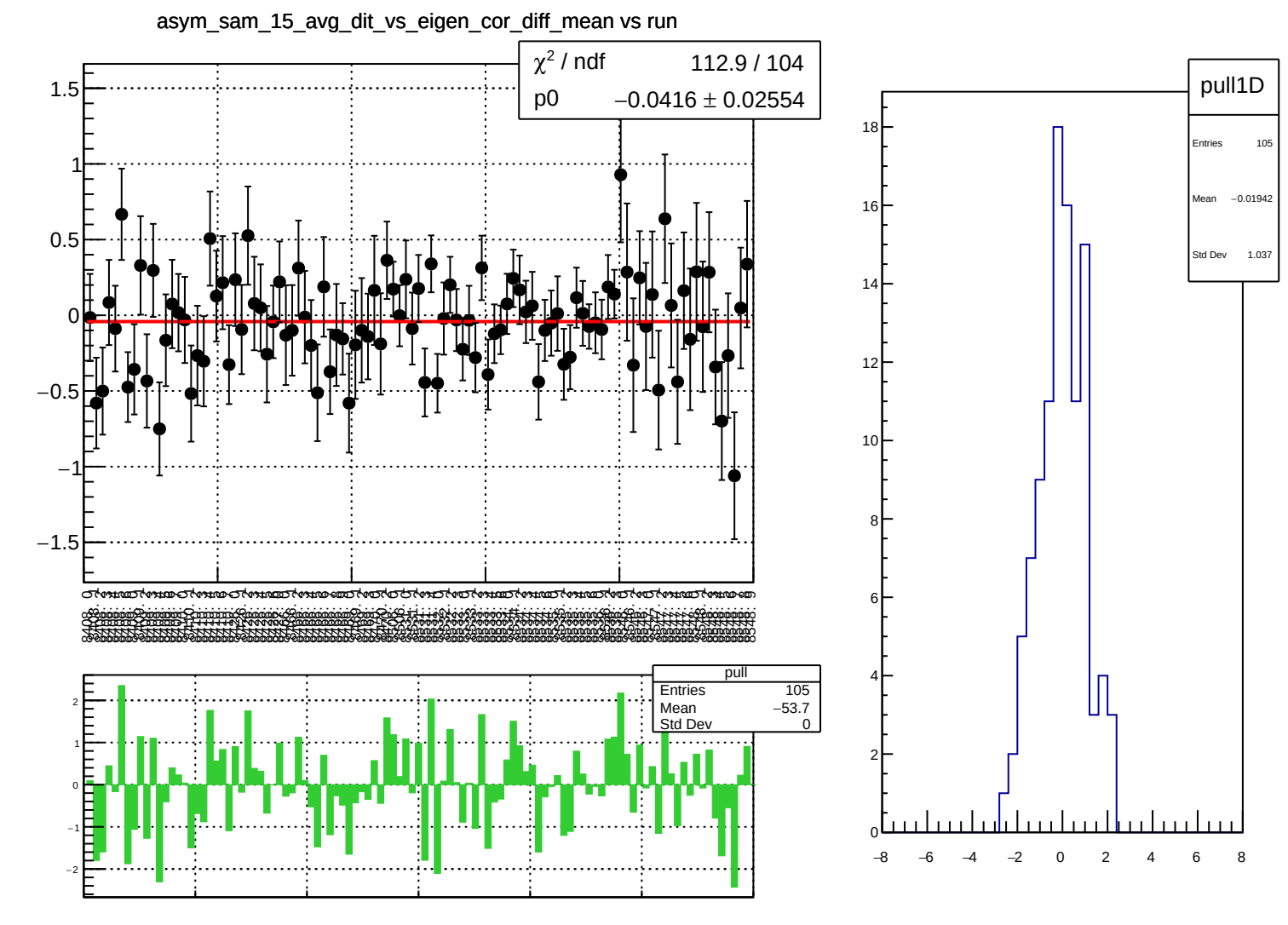

asym_sam_15_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 100.5 / 104
p0 3.953e−15 ± 2.124e−14
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
−0.001
pull
Entries 105
Mean −144.4
Std Dev 0
2
1
0
−1
−2

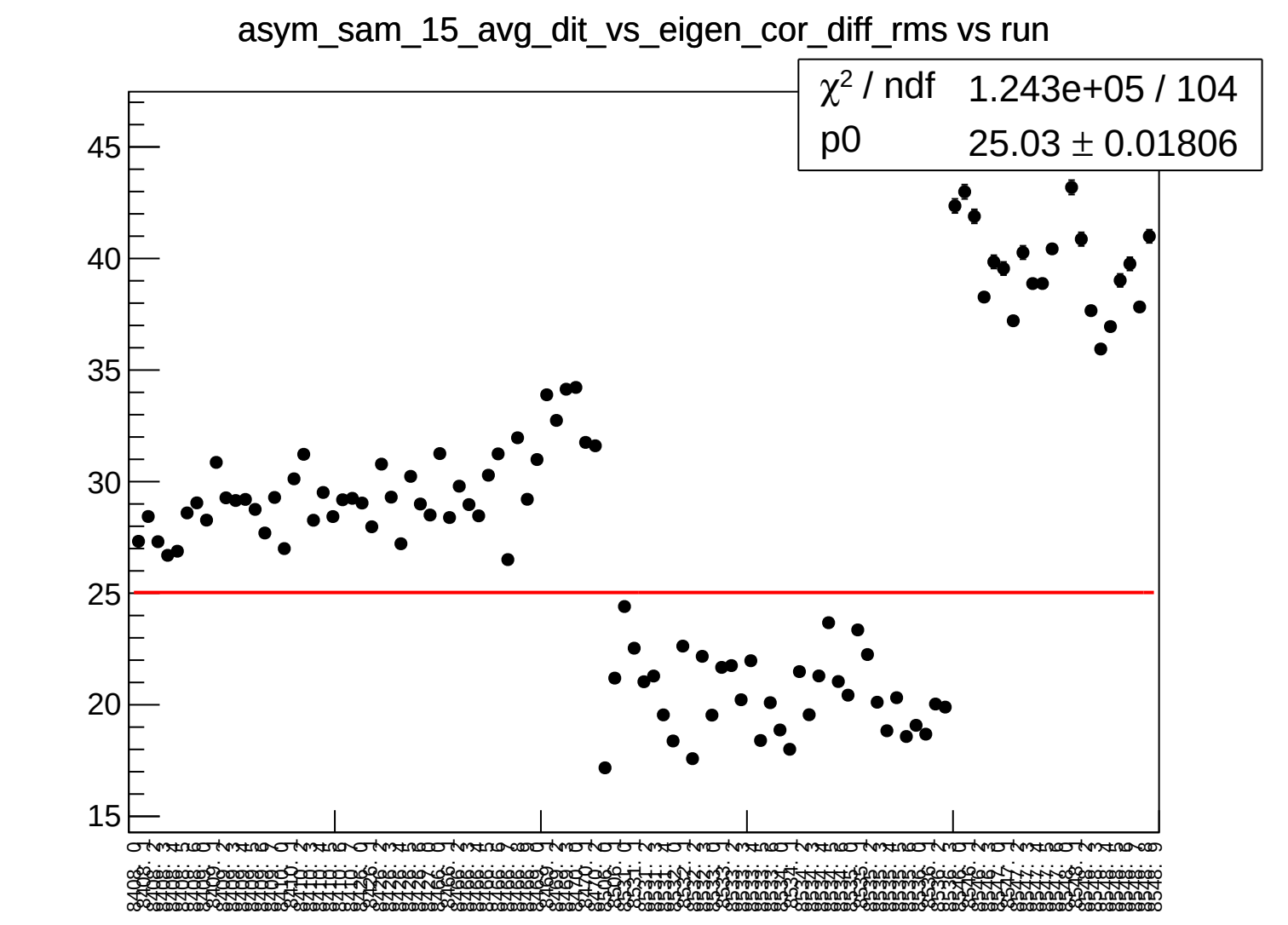

pull1D
Entries 105
Mean 0.03344
Std Dev 0.9778
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

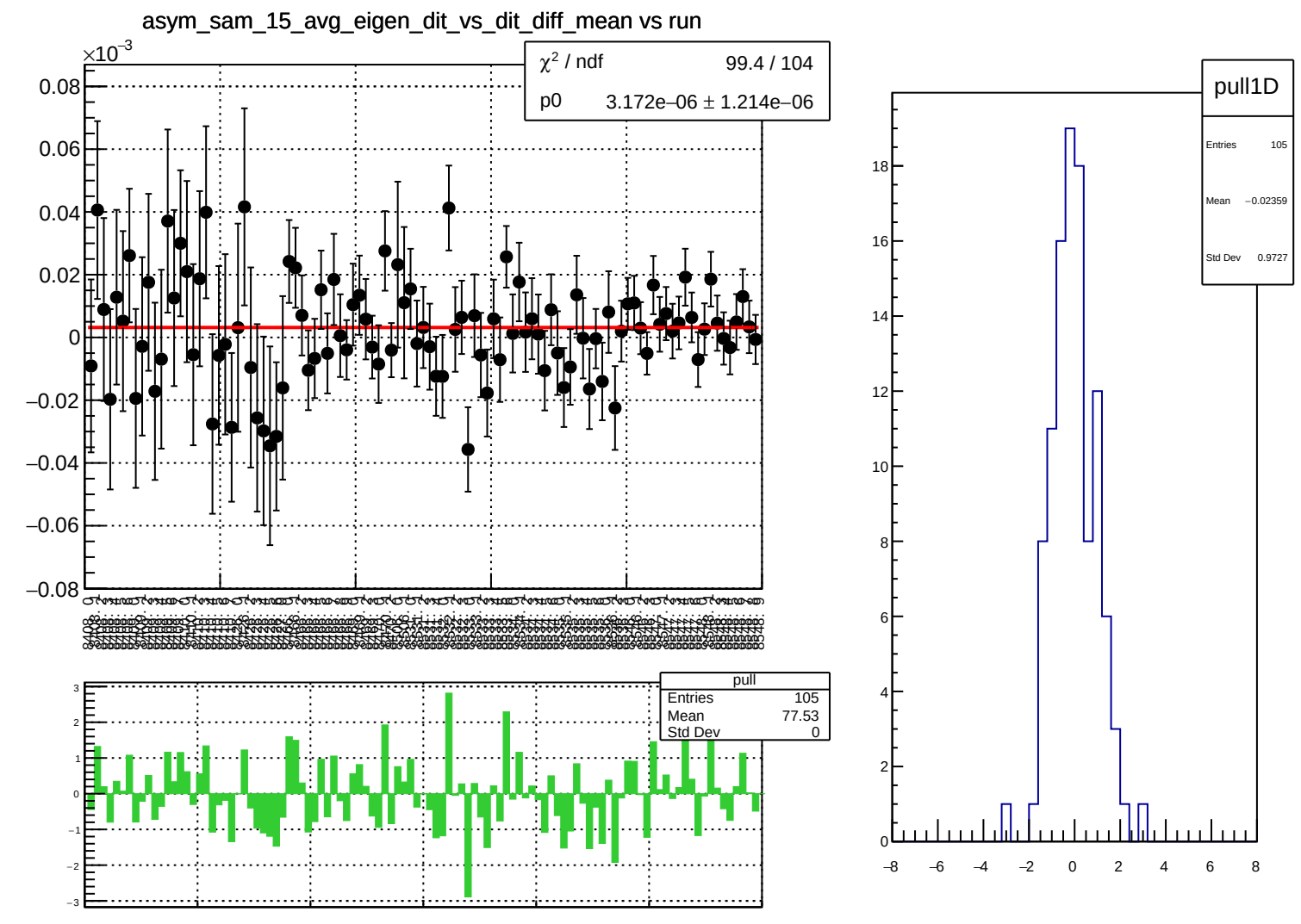

asym_sam_15_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.163e+06 / 104
p0 1.411e−11 ± 1.502e−14
0.05
0.04
0.03
0.02
0.01
0

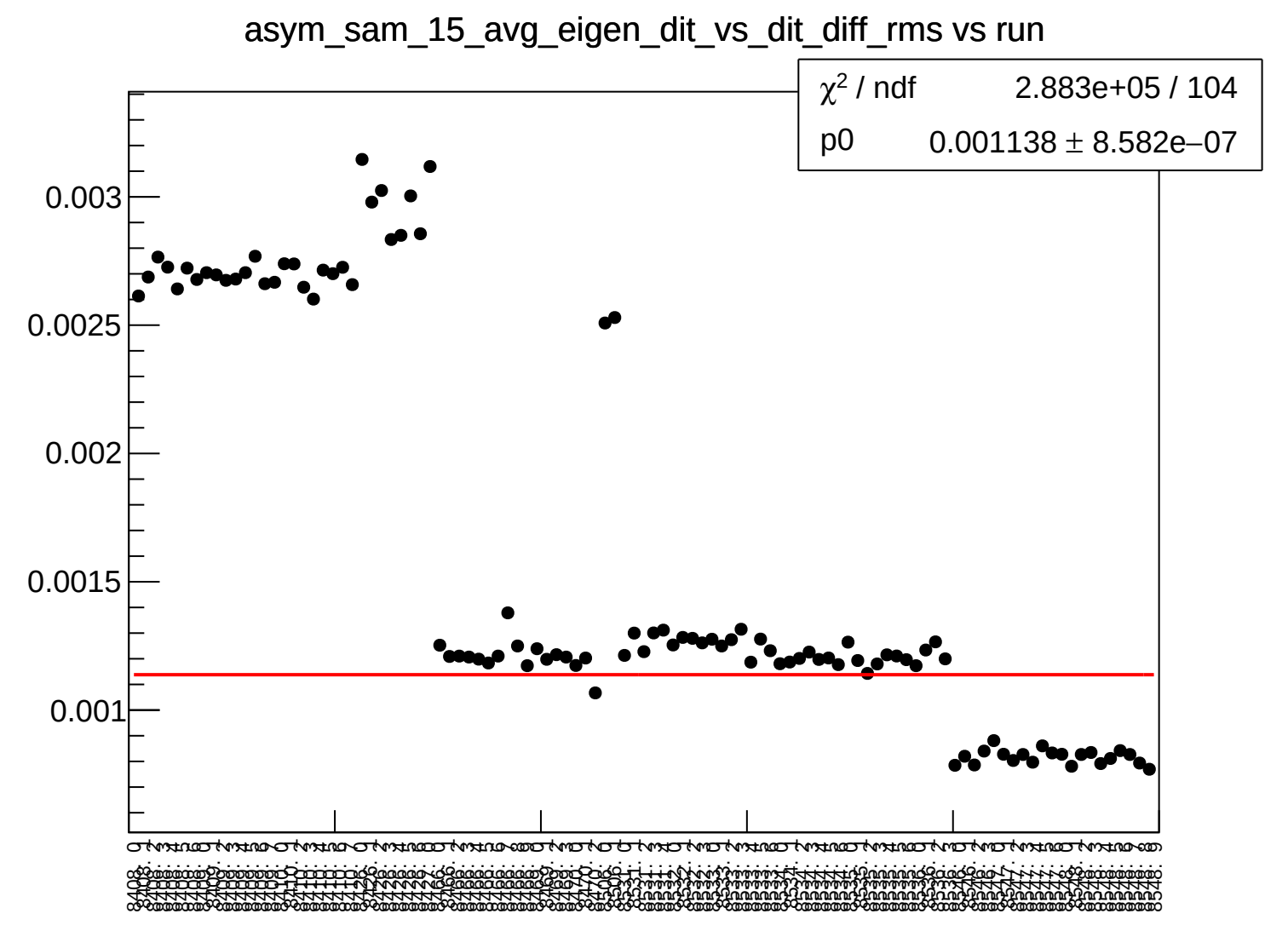

asym_sam_15_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 112.9 / 104
p0 −0.0416 ± 0.02554
pull
Entries 105
Mean −53.7
Std Dev 0
pull1D
Entries 105
Mean −0.01942
Std Dev 1.037

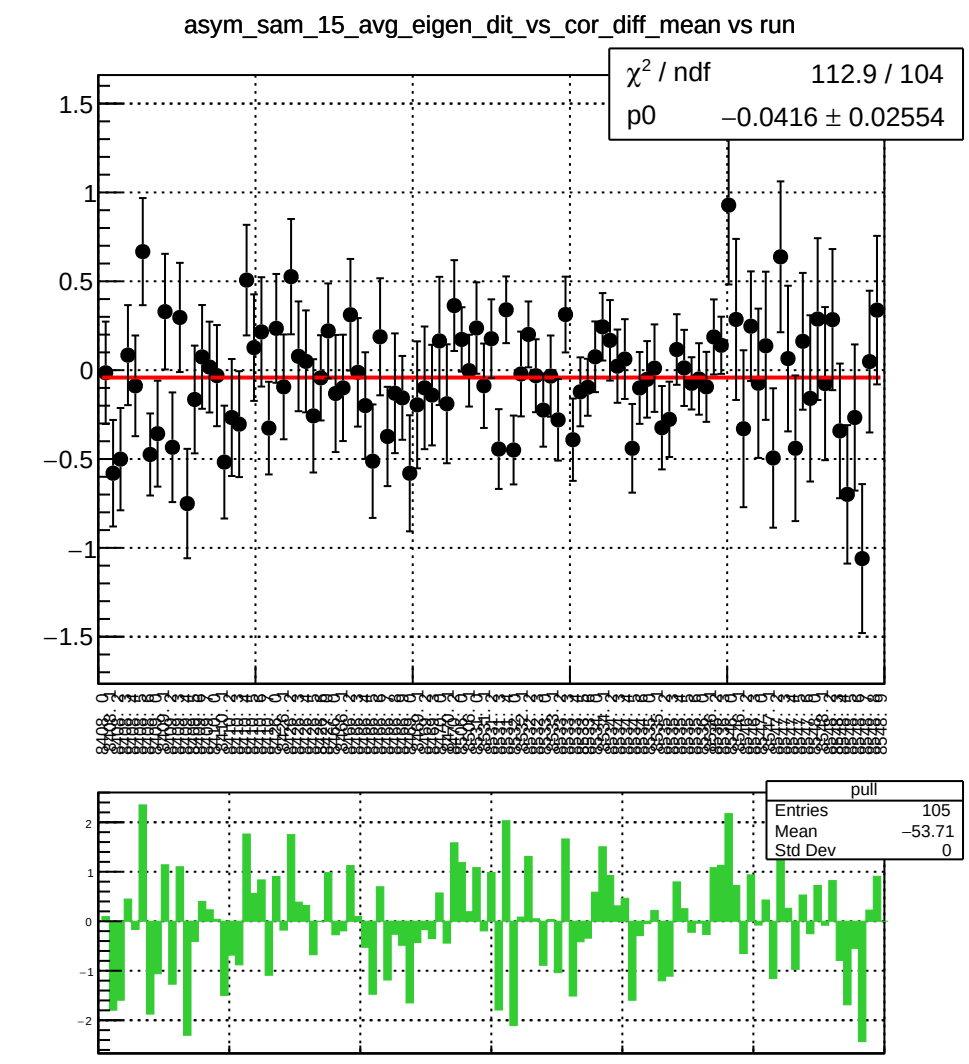

asym_sam_15_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.243e+05 / 104
p0 25.03 ± 0.01806
45
40
35
30
25
20
15

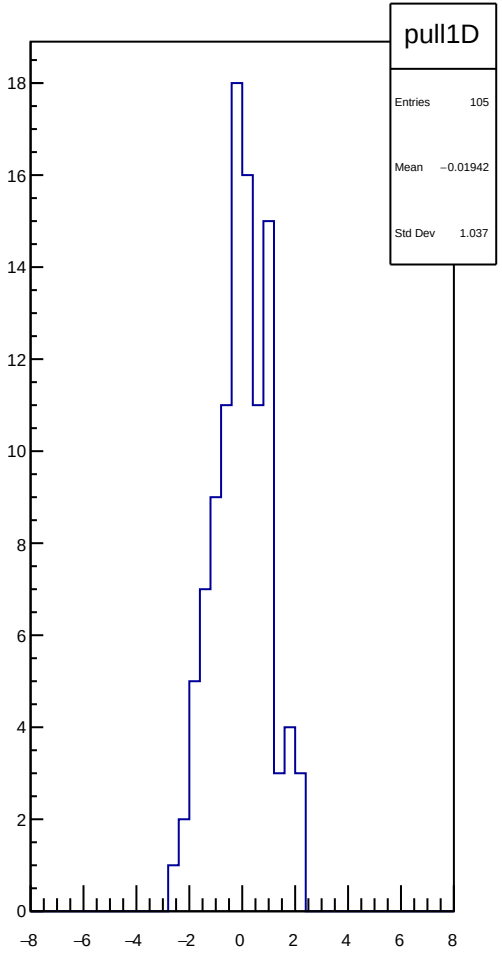

asym_sam_15_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 112.9 / 104
p0 −0.0416 ± 0.02554
pull
Entries 105
Mean −53.7
Std Dev 0
pull1D
Entries 105
Mean −0.01942
Std Dev 1.037

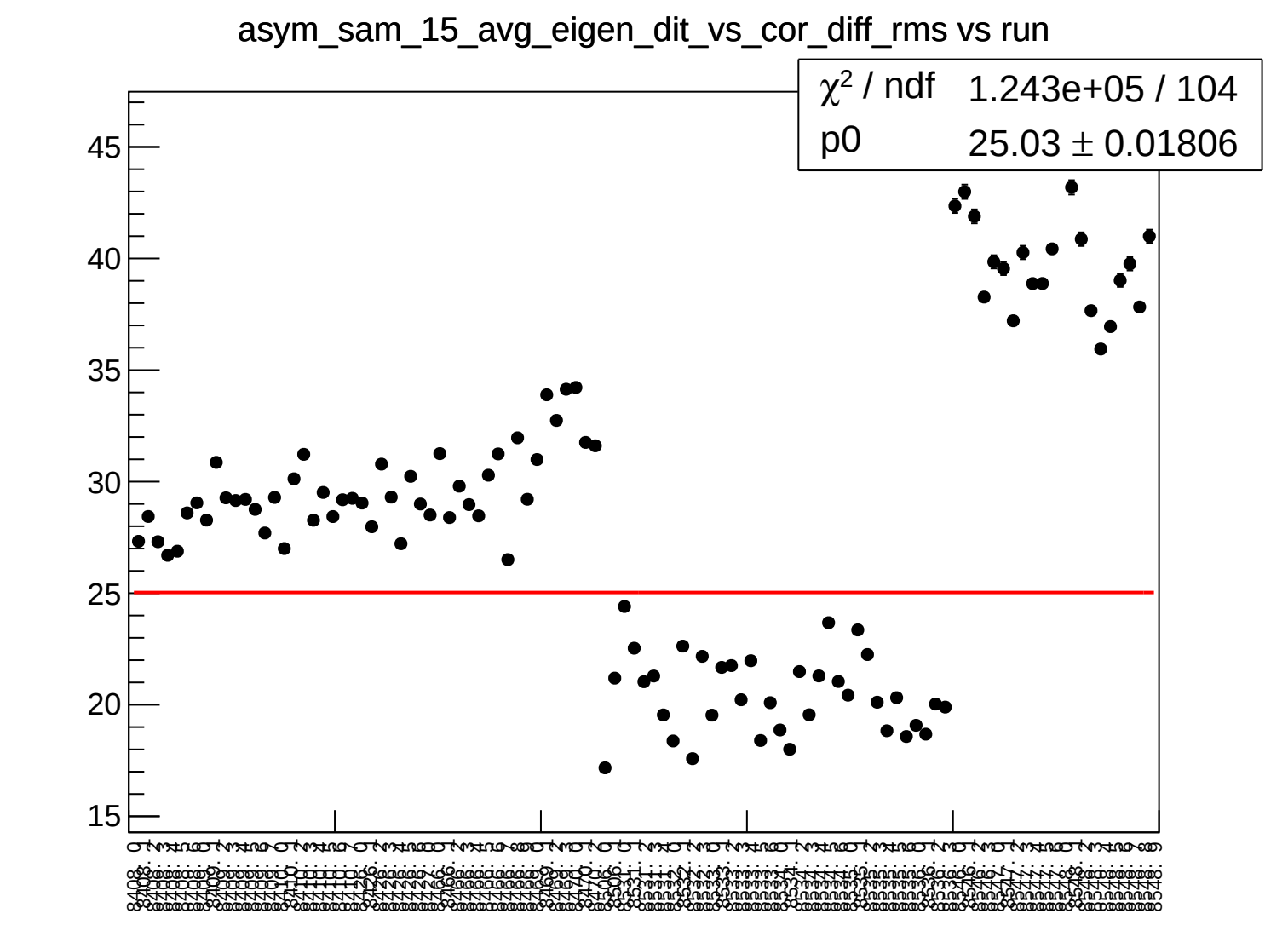

asym_sam_15_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.243e+05 / 104
p0 25.03 ± 0.01806
45
40
35
30
25
20
15

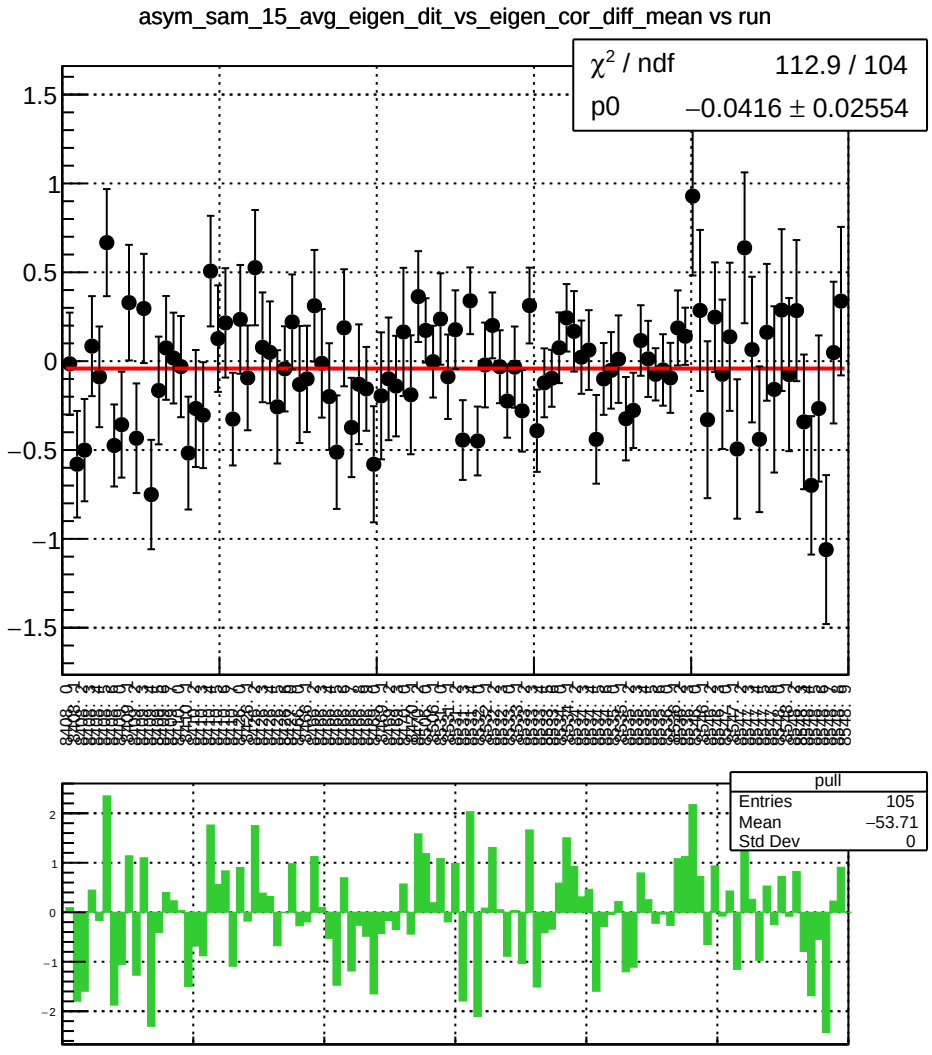

asym_sam_15_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.4 / 104
p0 3.172e−06 ± 1.214e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 105
Mean 77.53
Std Dev 0
3
2
1
0
−1
−2
−3
pull1D
Entries 105
Mean −0.02359
Std Dev 0.9727
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

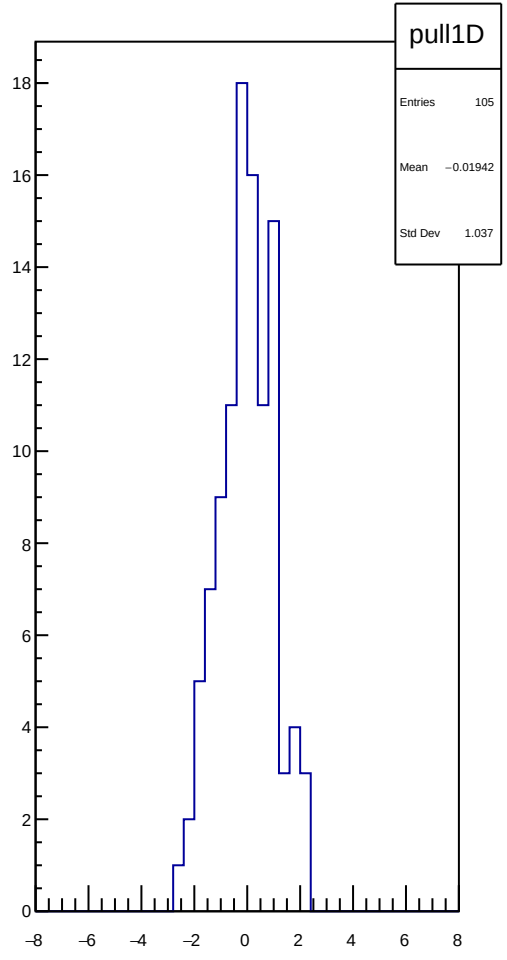

asym_sam_15_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.883e+05 / 104
p0 0.001138 ± 8.582e−07
0.003
0.0025
0.002
0.0015
0.001

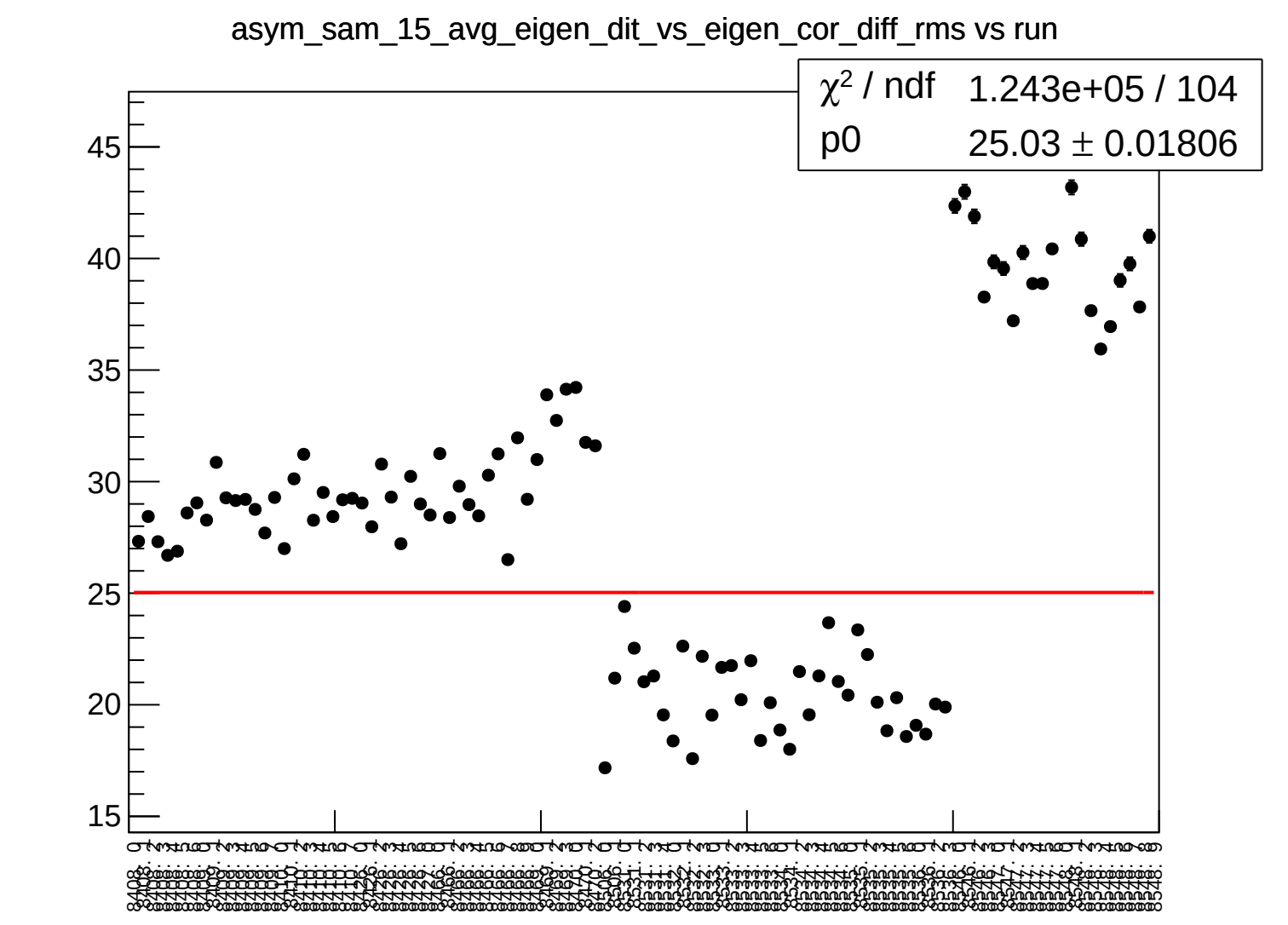

asym_sam_15_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 112.9 / 104
p0 −0.0416 ± 0.02554
pull
Entries 105
Mean −53.71
Std Dev 0

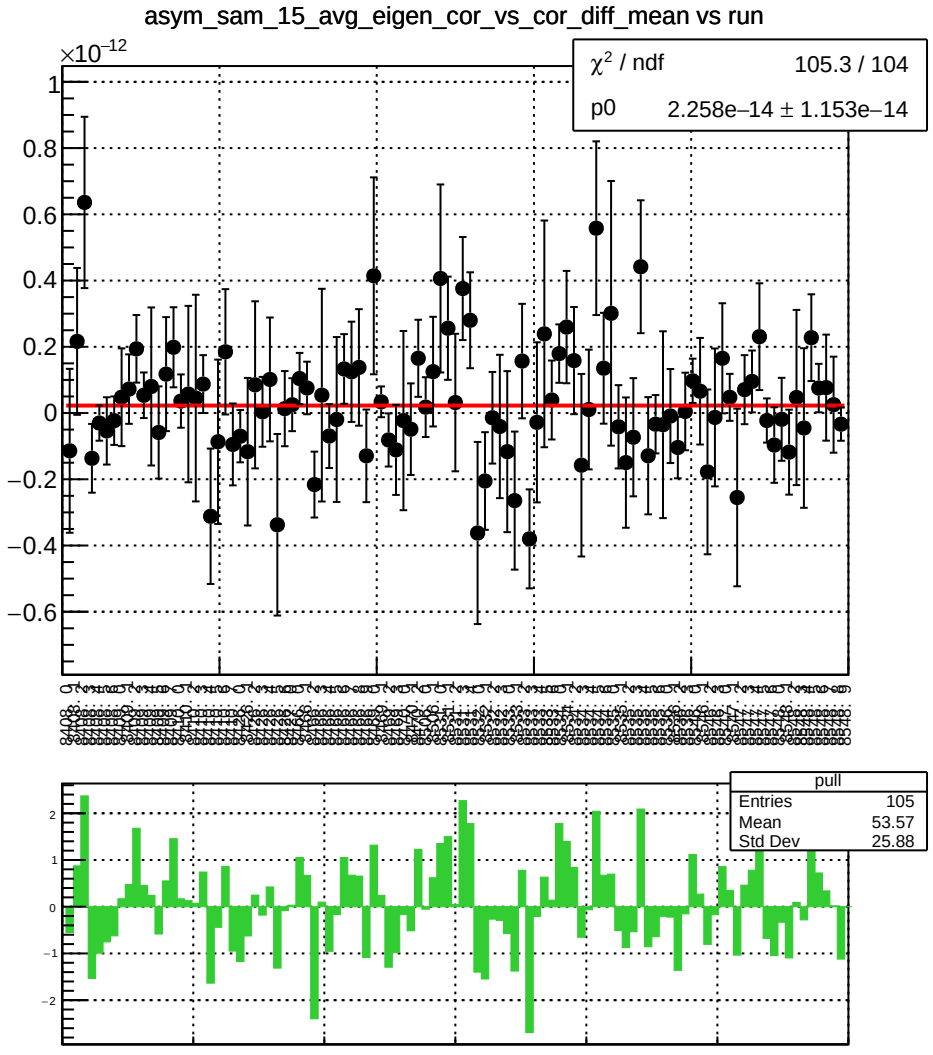

pull1D
Entries 105
Mean −0.01942
Std Dev 1.037

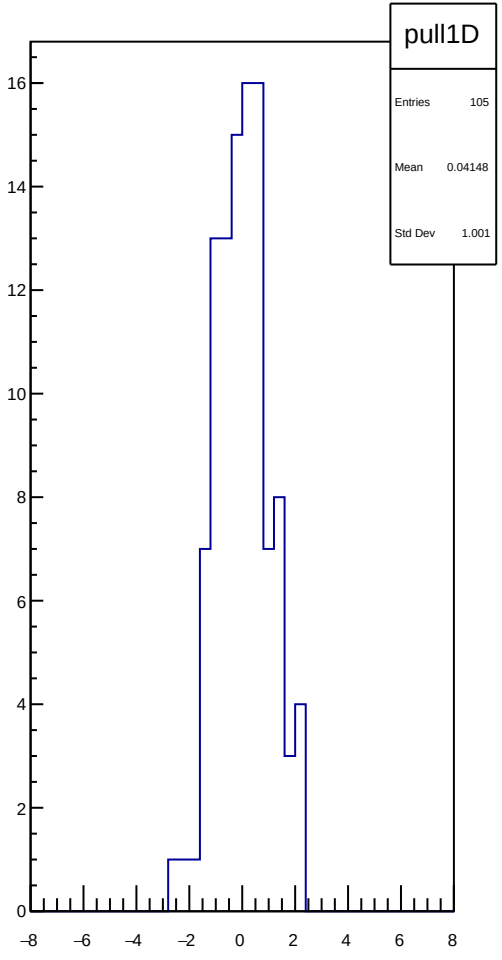

asym_sam_15_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.243e+05 / 104
p0 25.03 ± 0.01806
45
40
35
30
25
20
15

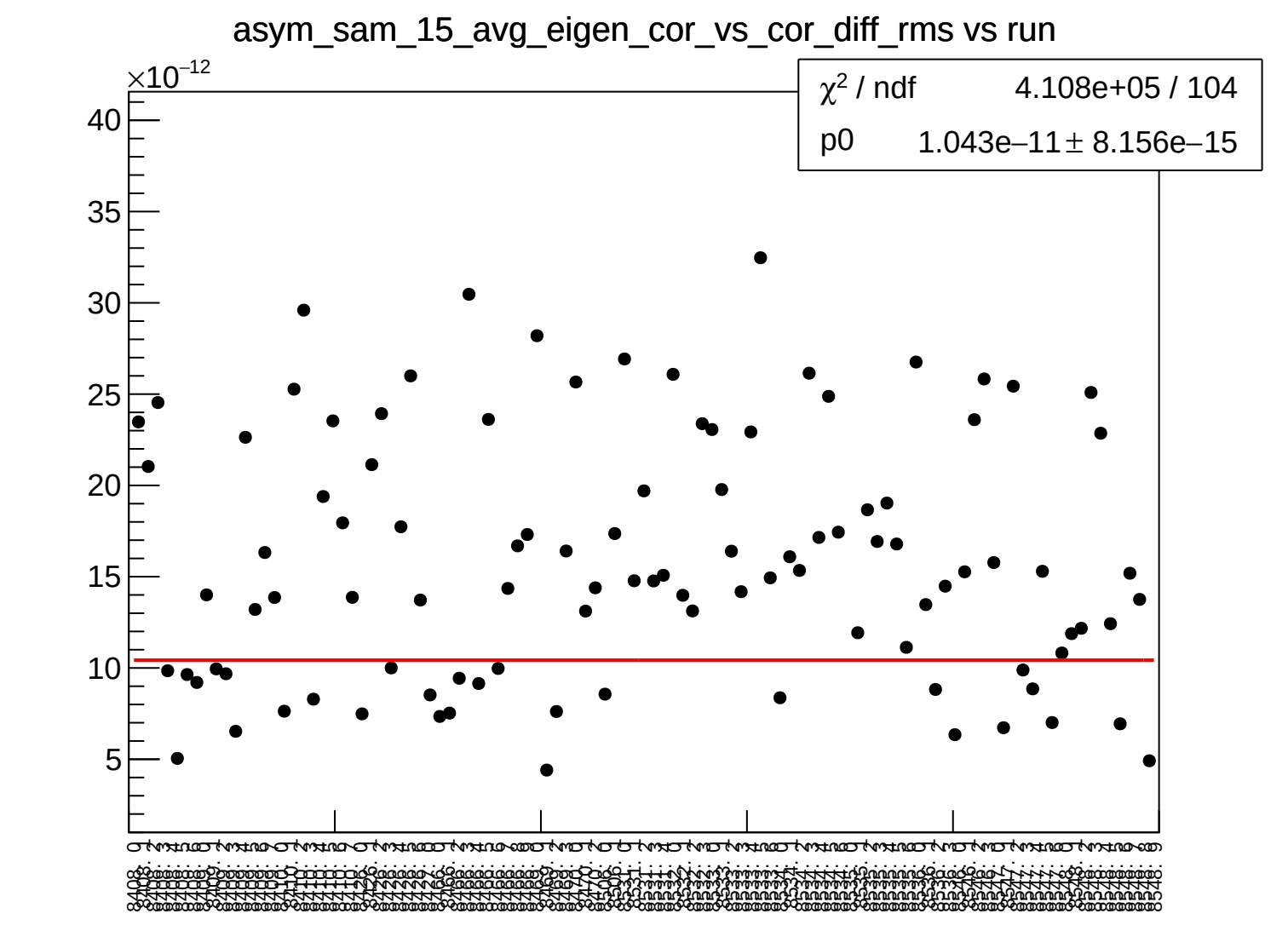

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 112.9 / 104
p0 −0.0416 ± 0.02554
pull
Entries 105
Mean −53.71
Std Dev 0

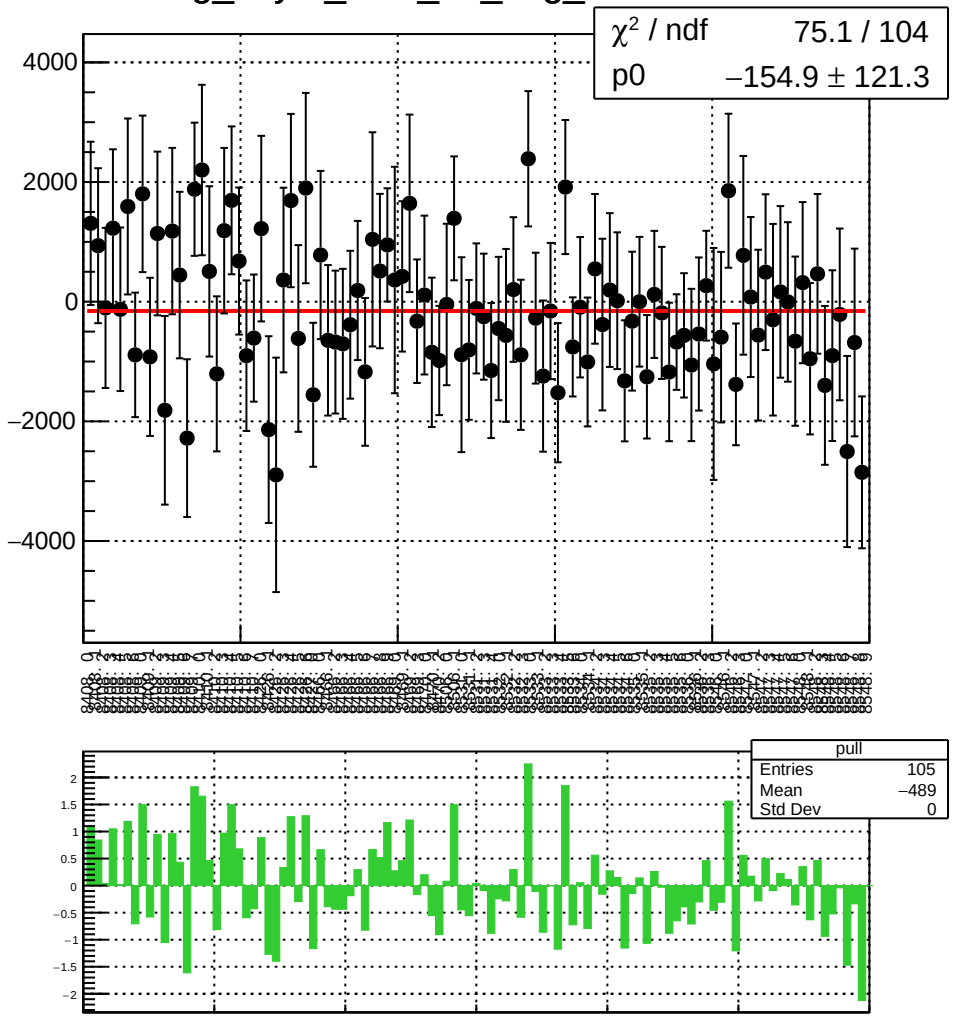

pull1D
Entries 105
Mean −0.01942
Std Dev 1.037

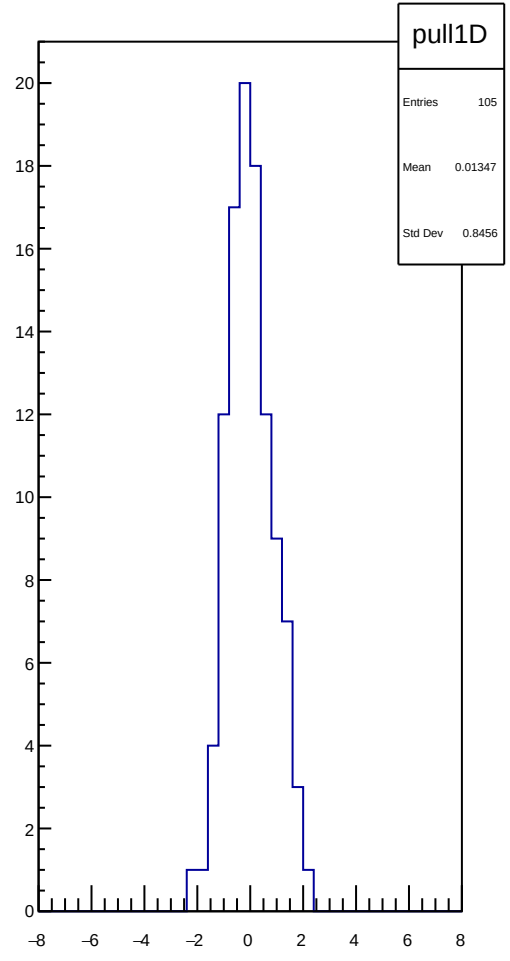

asym_sam_15_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.243e+05 / 104
p0 25.03 ± 0.01806
45
40
35
30
25
20
15

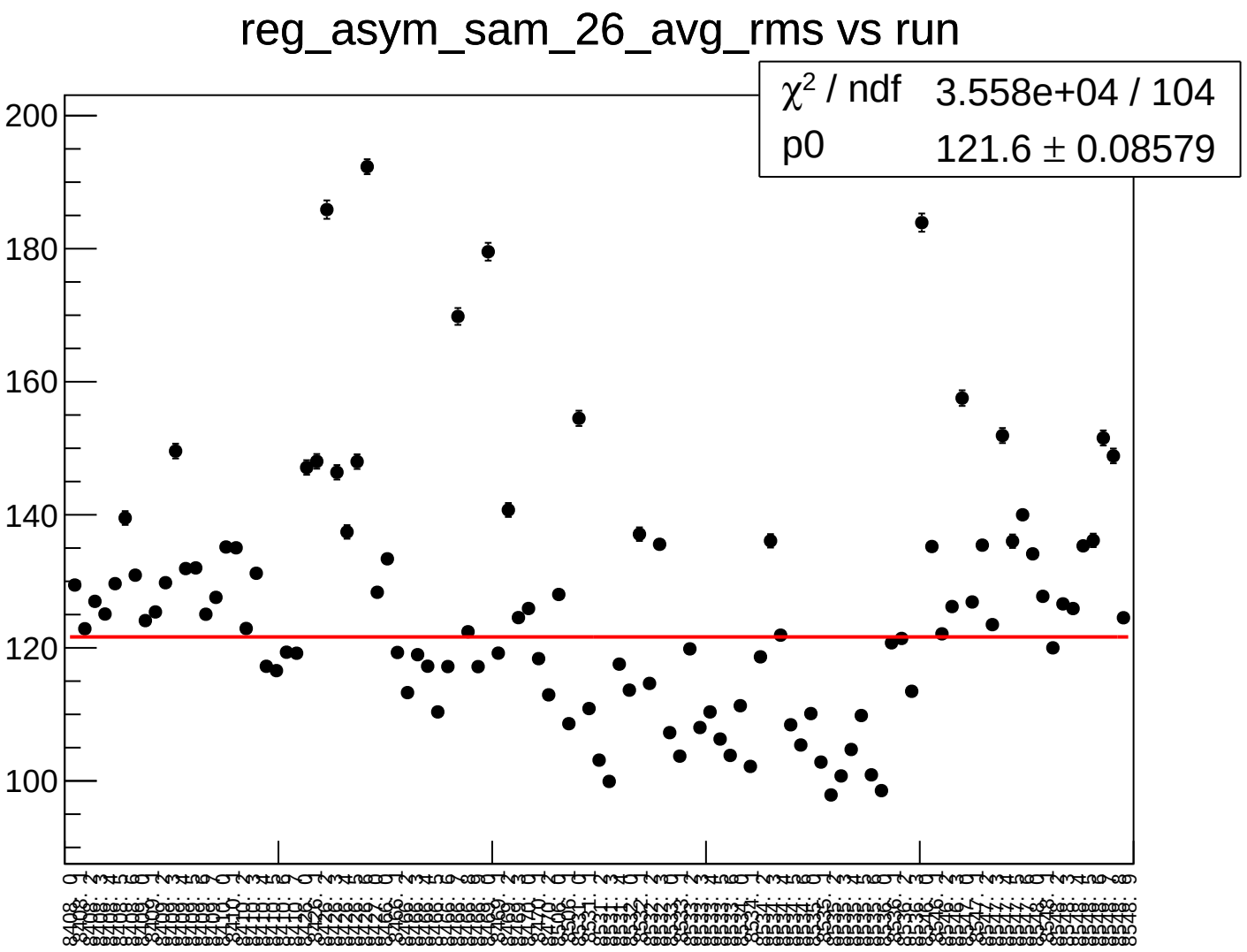

asym_sam_15_avg_eigen_cor_vs_cor_diff_mean vs run
×10−12
χ2 / ndf 105.3 / 104
p0 2.258e−14 ± 1.153e−14
pull
Entries 105
Mean 53.57
Std Dev 25.88

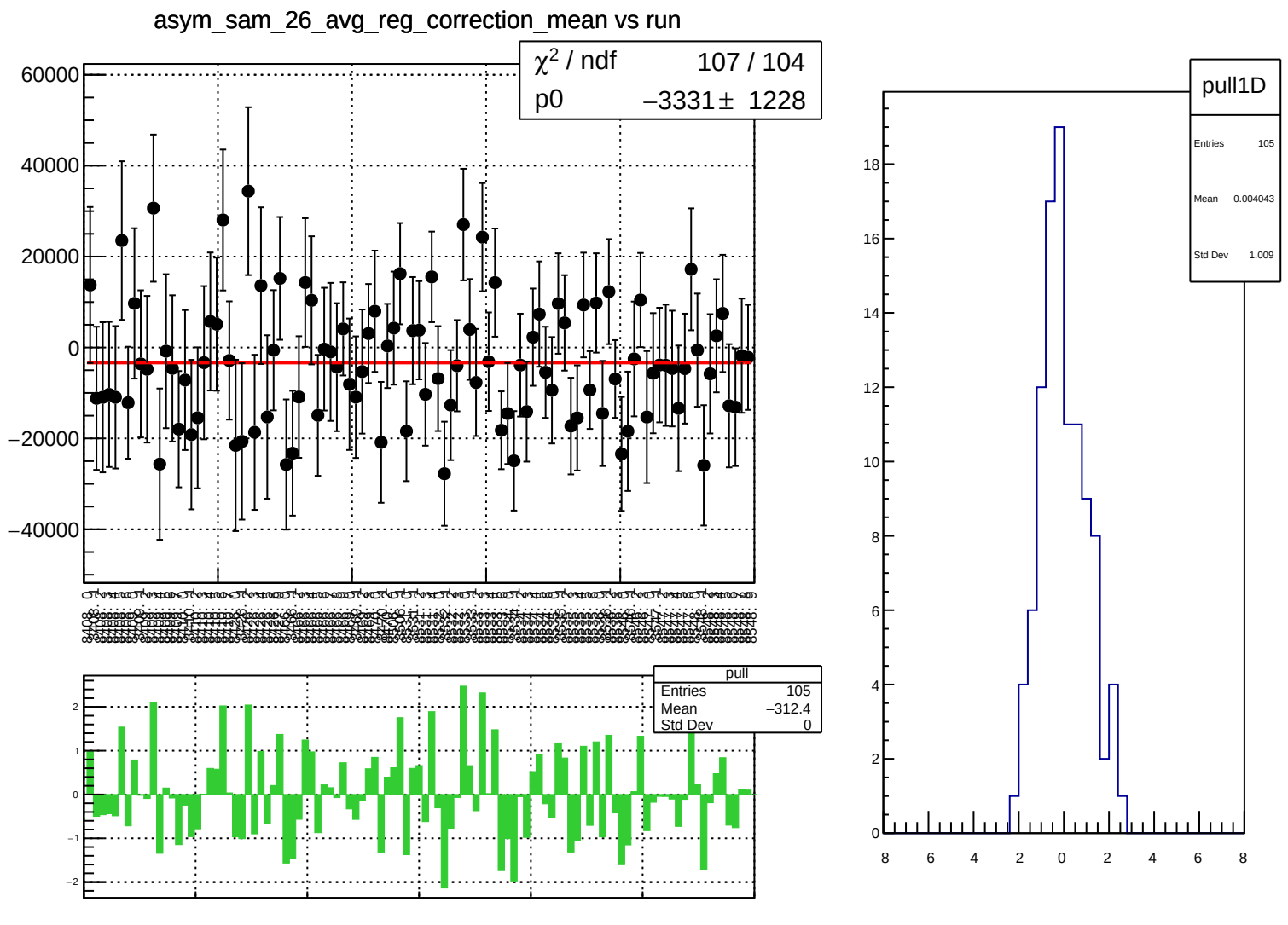

pull1D
Entries 105
Mean 0.04148
Std Dev 1.001

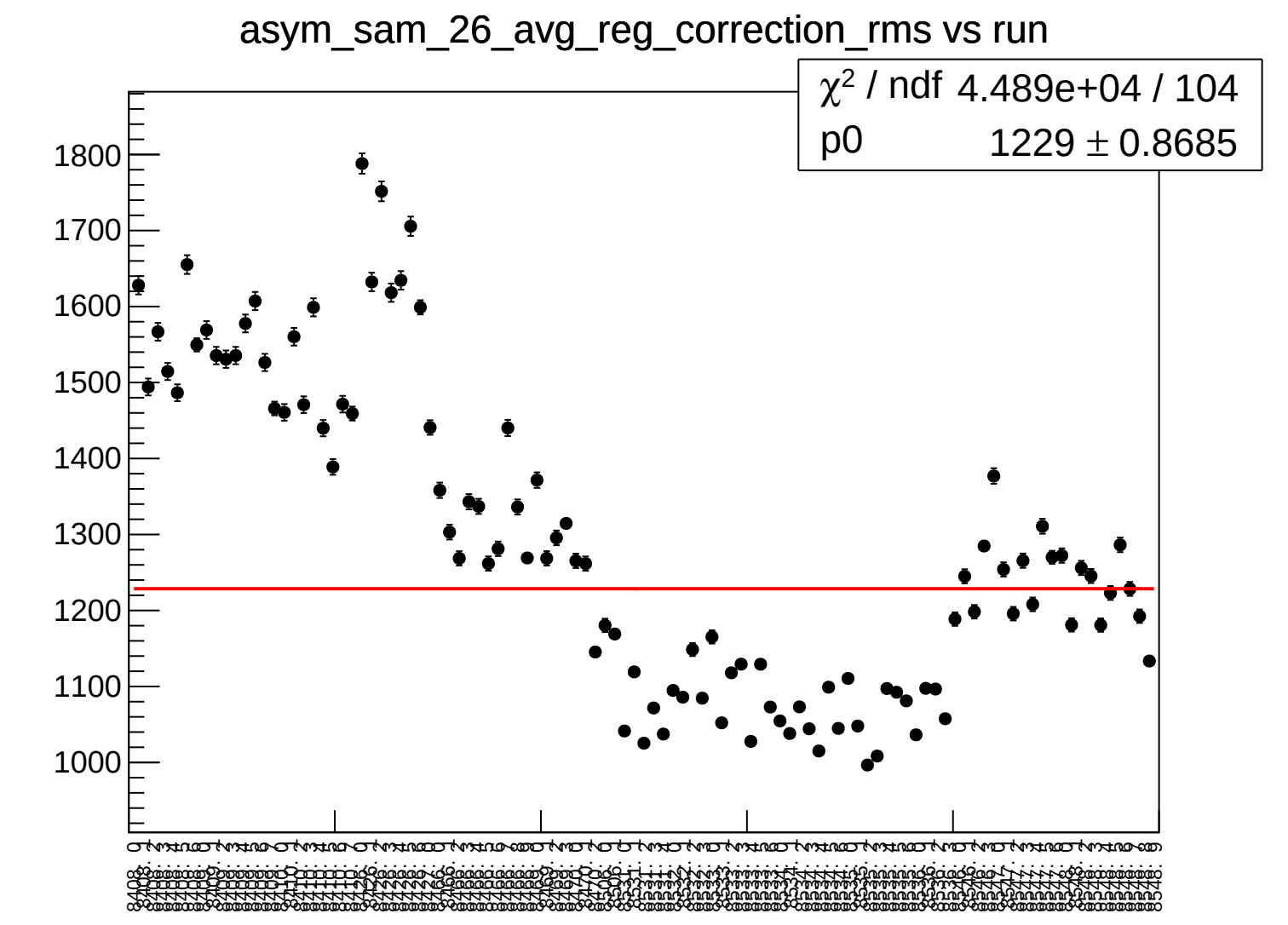

asym_sam_15_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
40
35
30
25
20
15
10
5
χ² / ndf 4.108e+05 / 104
p0 1.043e−11 ± 8.156e−15

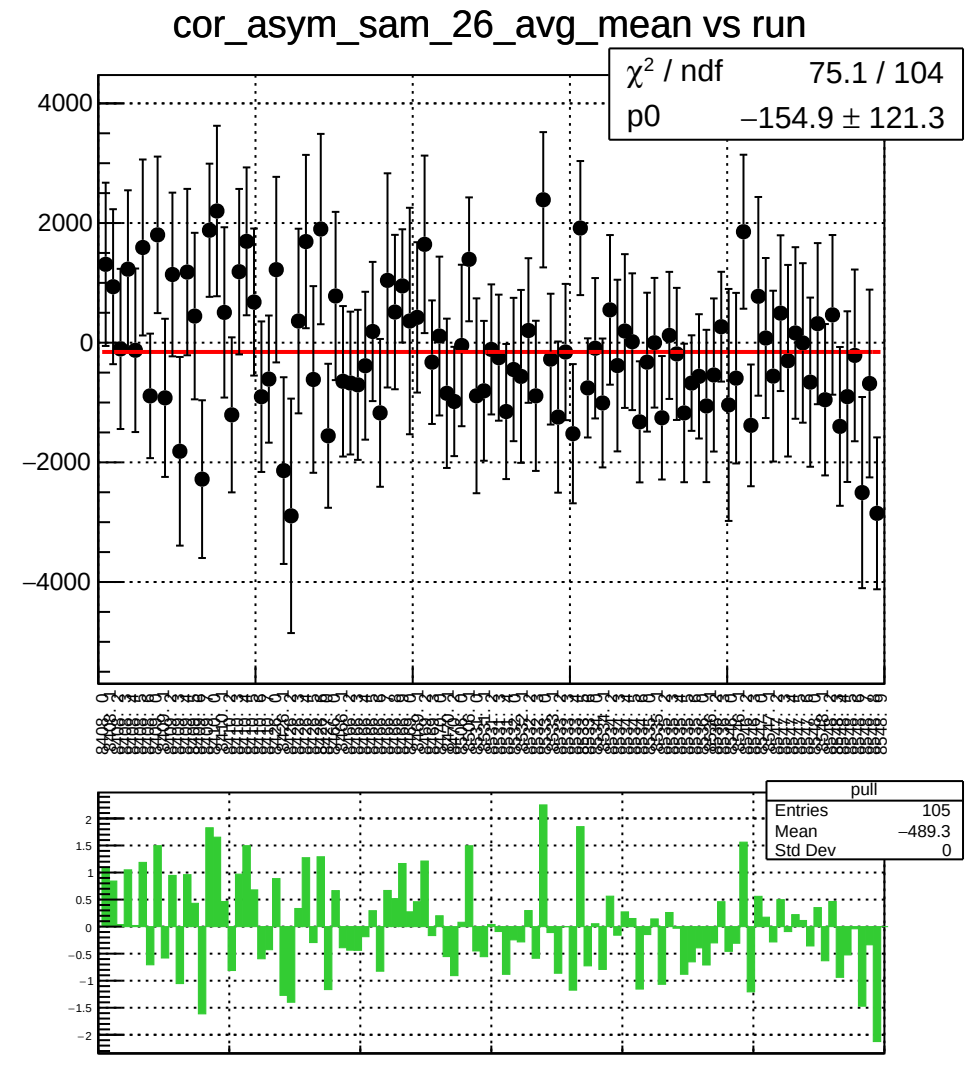

reg_asym_sam_26_avg_mean vs run
χ² / ndf 75.1 / 104
p0 −154.9 ± 121.3
4000
2000
0
−2000
−4000
pull
Entries 105
Mean −489
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

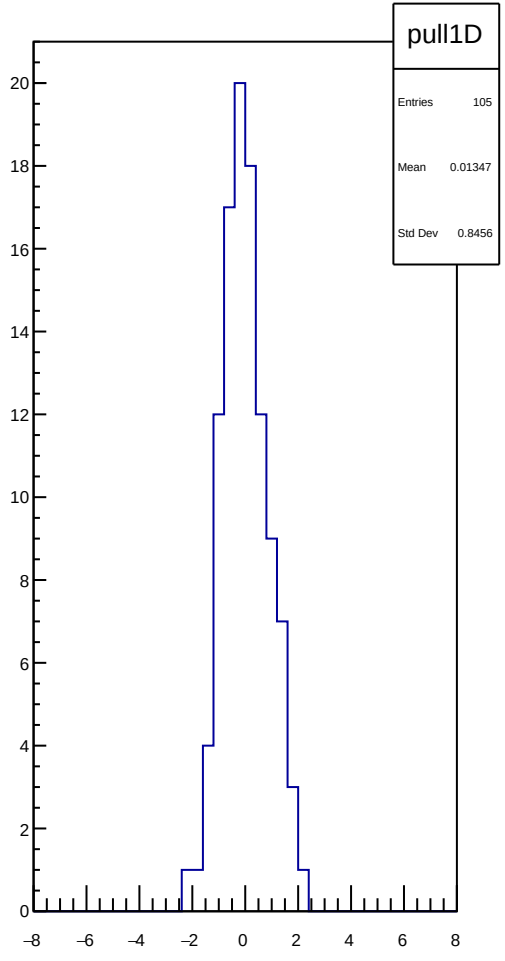

pull1D
Entries 105
Mean 0.01347
Std Dev 0.8456
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

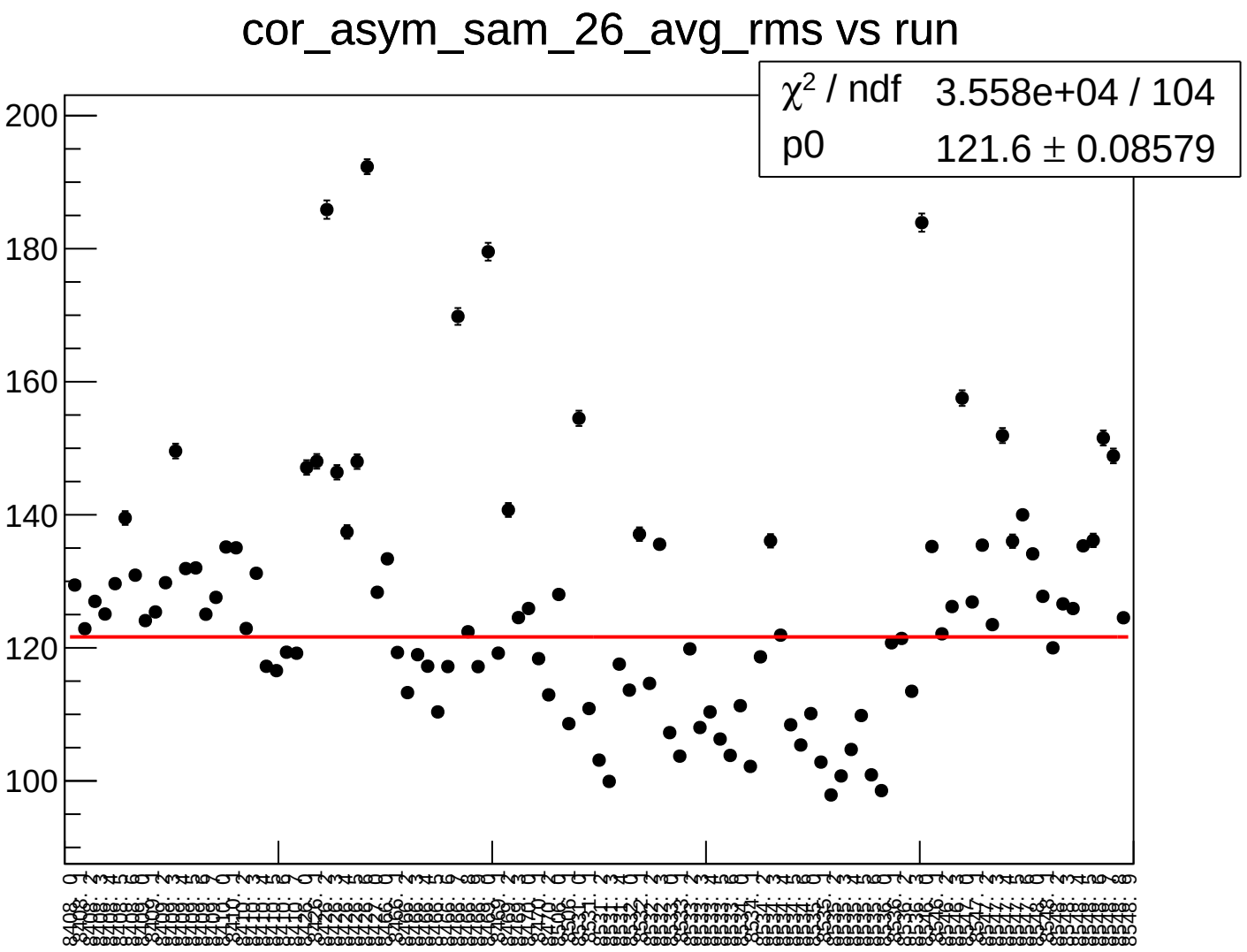

reg_asym_sam_26_avg_rms vs run
χ^2 / ndf 3.558e+04 / 104
p0 121.6 ± 0.08579
200
180
160
140
120
100

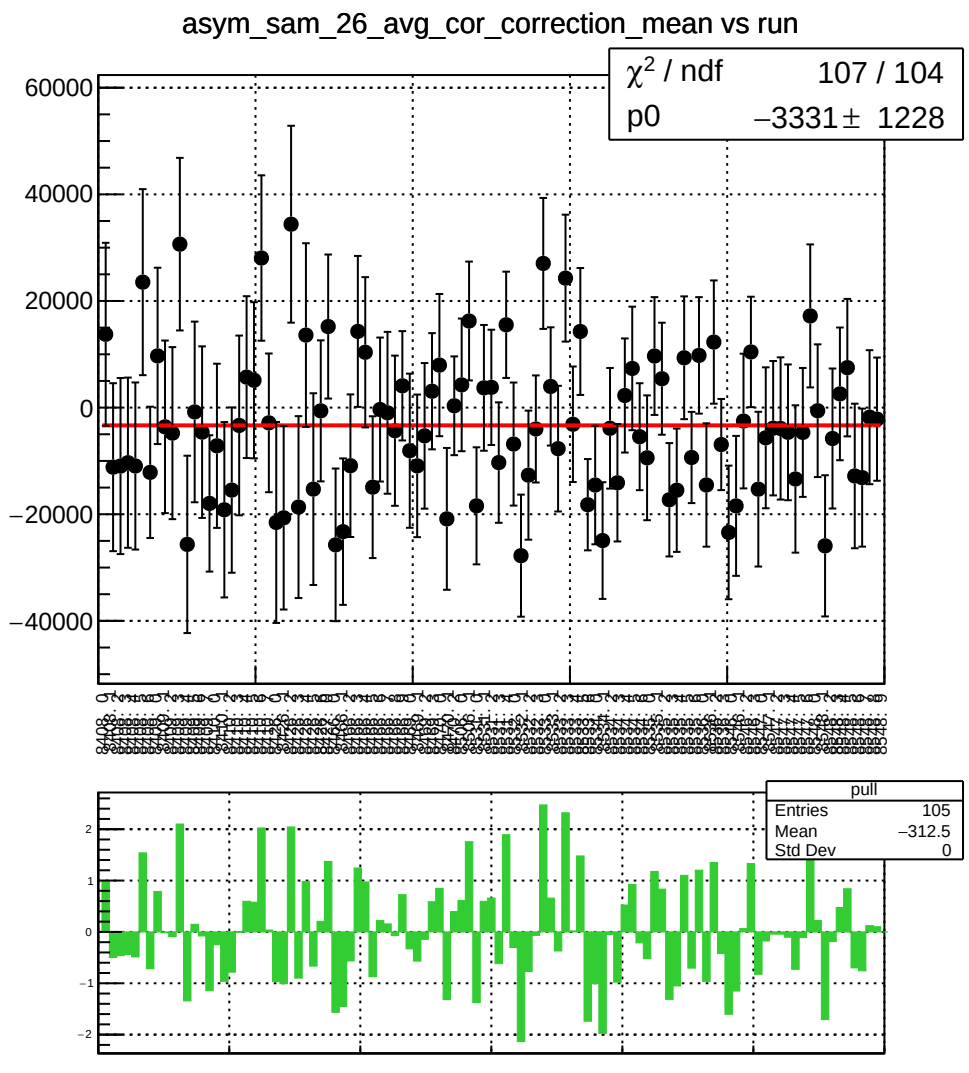

asym_sam_26_avg_reg_correction_mean vs run
χ² / ndf 107 / 104
p0 −3331 ± 1228
60000
40000
20000
0
−20000
−40000
pull
Entries 105
Mean −312.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.004043
Std Dev 1.009
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

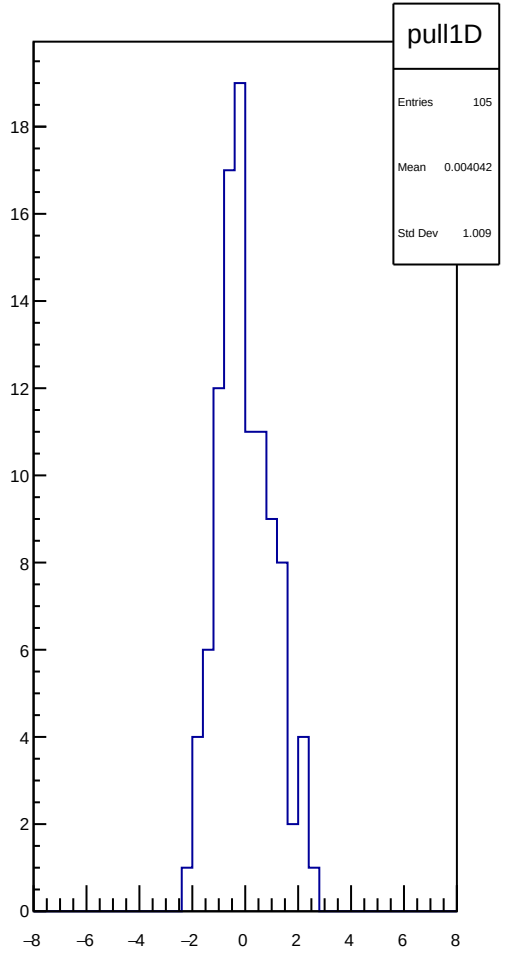

asym_sam_26_avg_reg_correction_rms vs run
χ² / ndf 4.489e+04 / 104
p0 1229 ± 0.8685
1800
1700
1600
1500
1400
1300
1200
1100
1000


cor_asym_sam_26_avg_mean vs run
χ² / ndf 75.1 / 104
p0 −154.9 ± 121.3
4000
2000
0
−2000
−4000
pull
Entries 105
Mean −489.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 105
Mean 0.01347
Std Dev 0.8456
20
18
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 3.558e+04 / 104
p0 121.6 ± 0.08579
200
180
160
140
120
100


asym_sam_26_avg_cor_correction_mean vs run
χ² / ndf 107 / 104
p0 −3331 ± 1228
60000
40000
20000
0
−20000
−40000
pull
Entries 105
Mean −312.5
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 105
Mean 0.004042
Std Dev 1.009
18
16
14
12
10
8
6
4
2
0
−8
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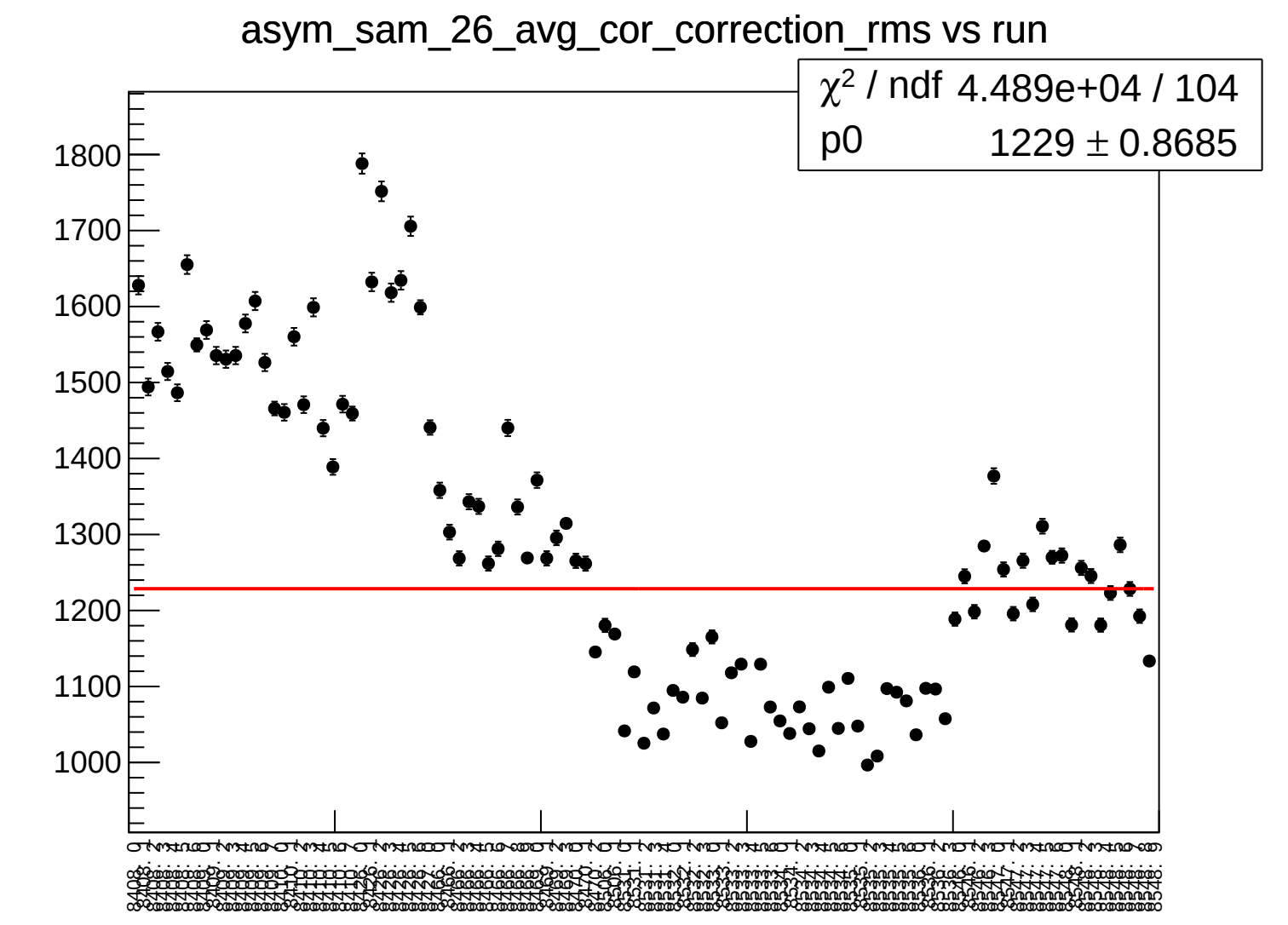
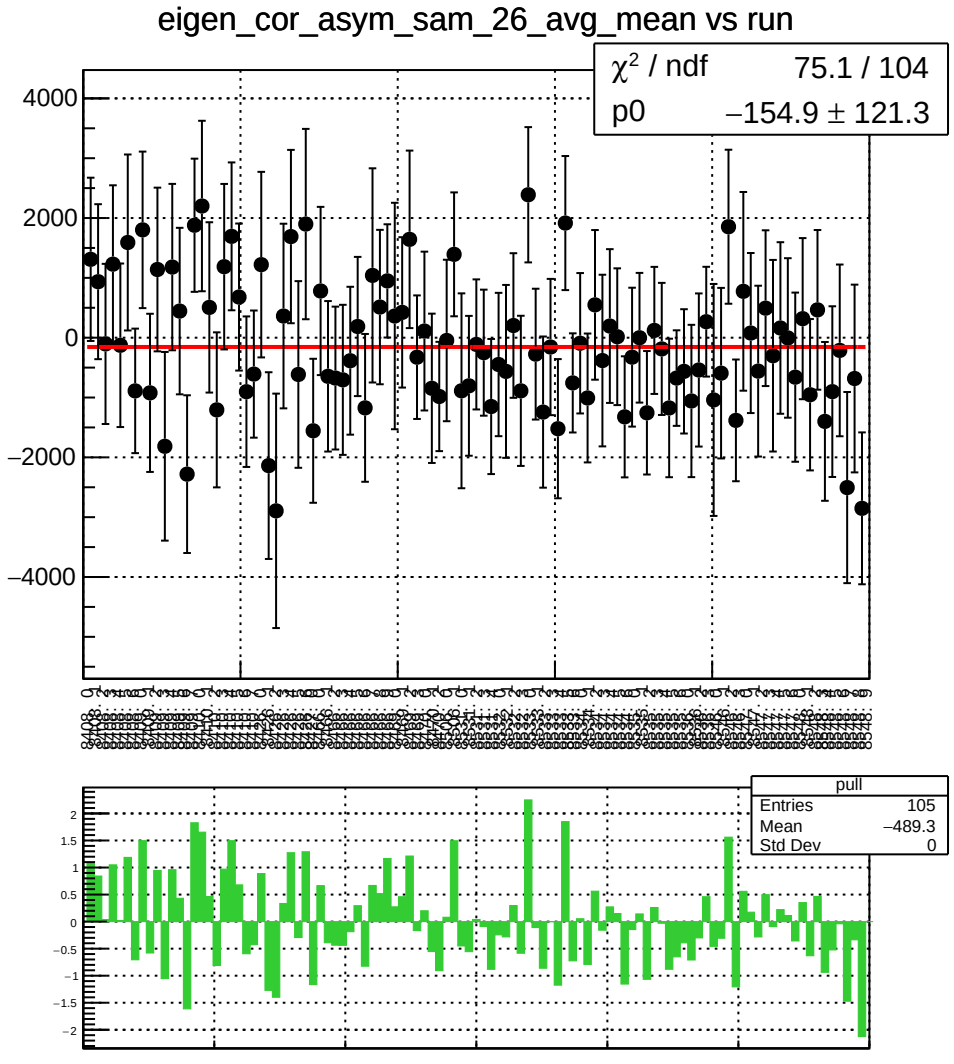
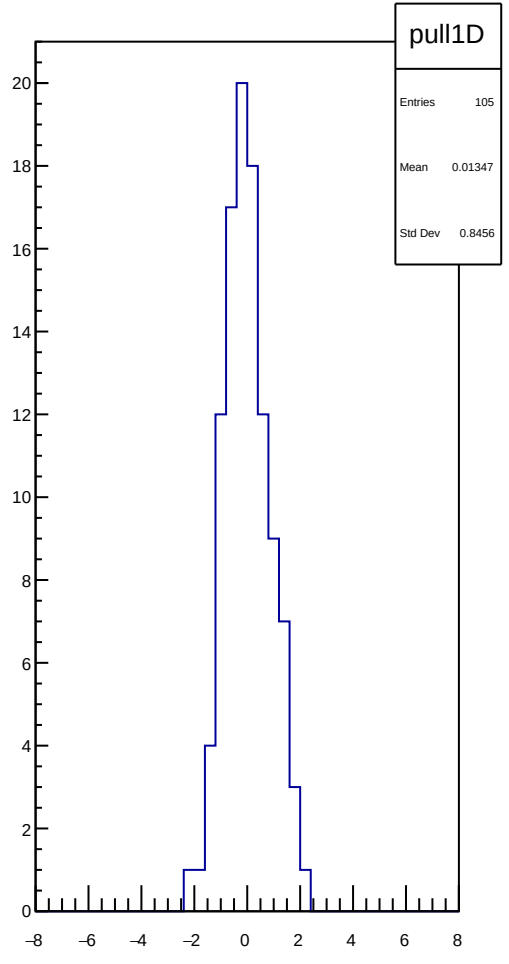
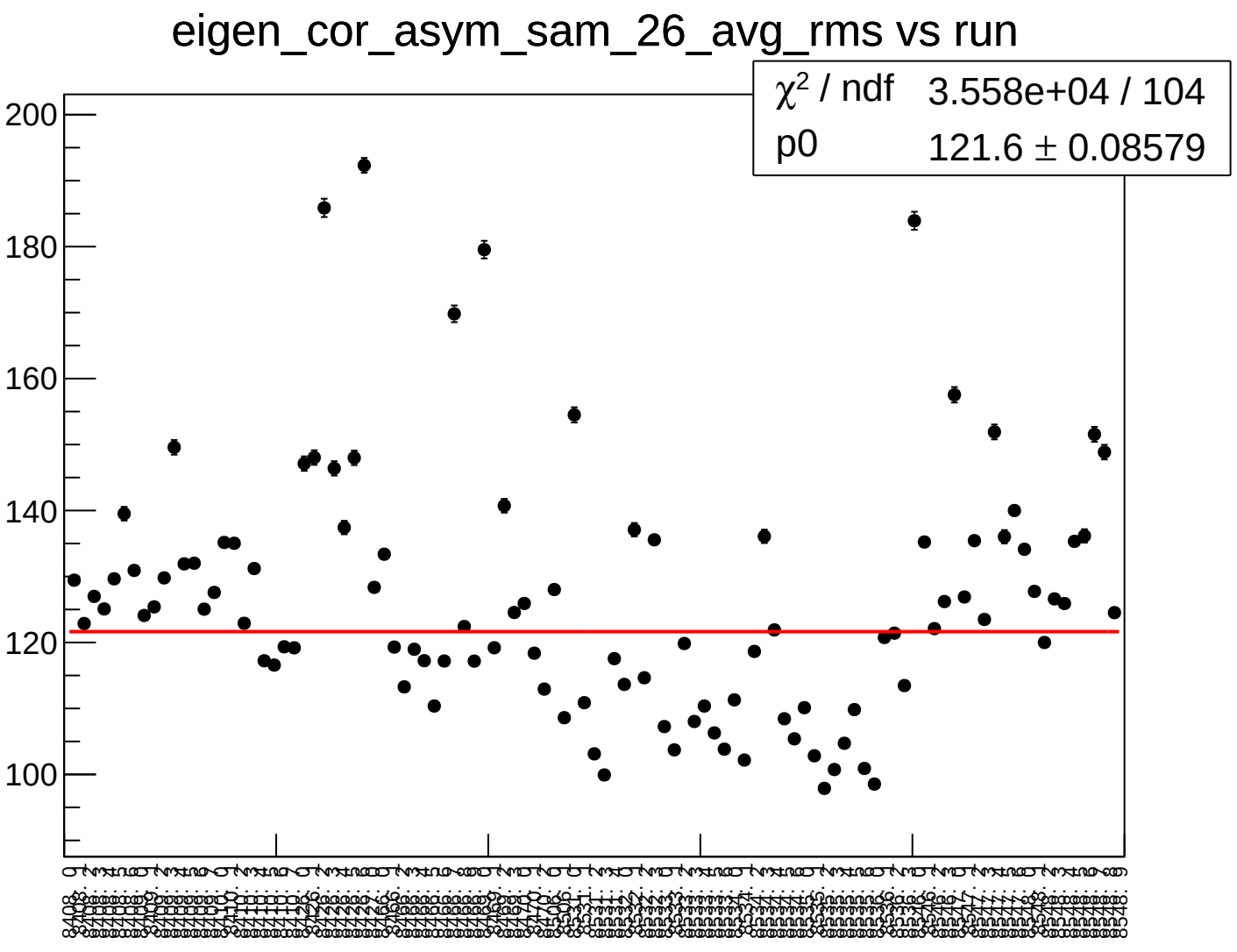
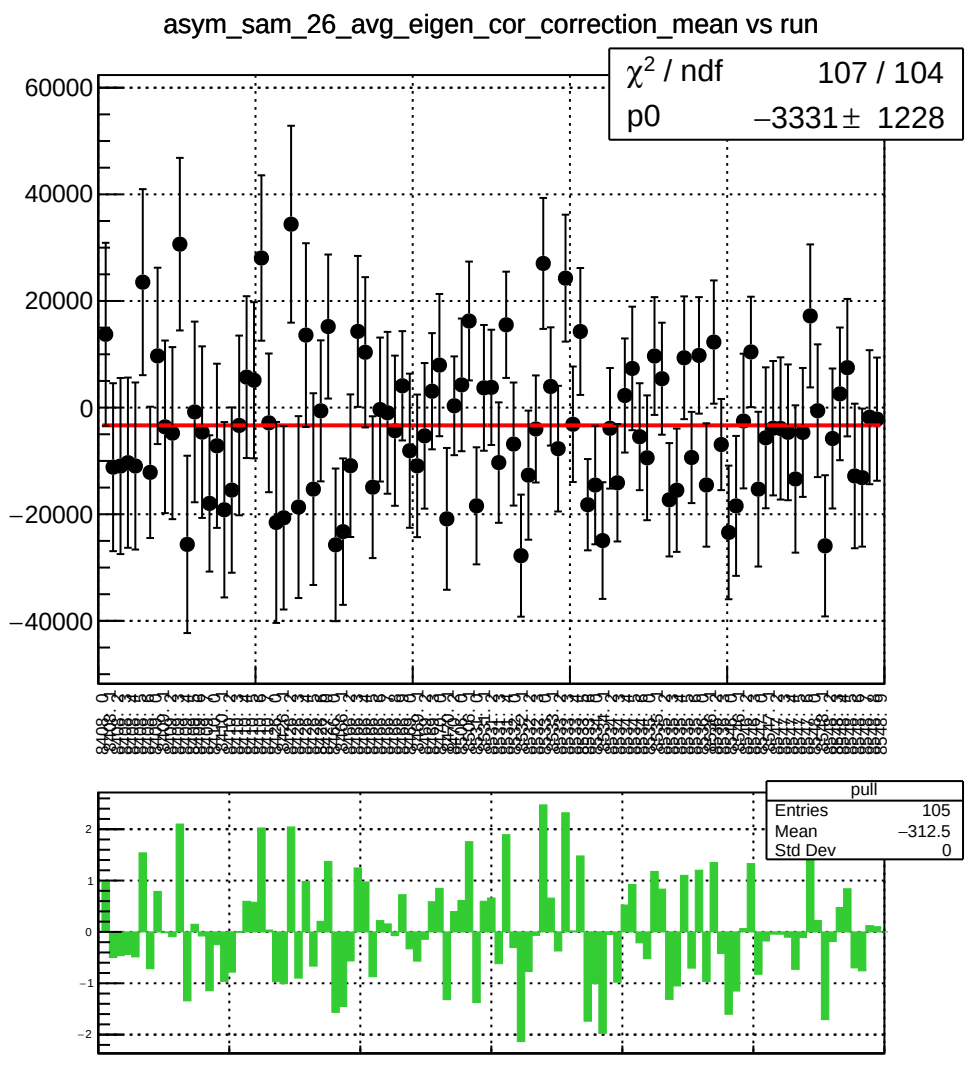
0
2
4
6
8

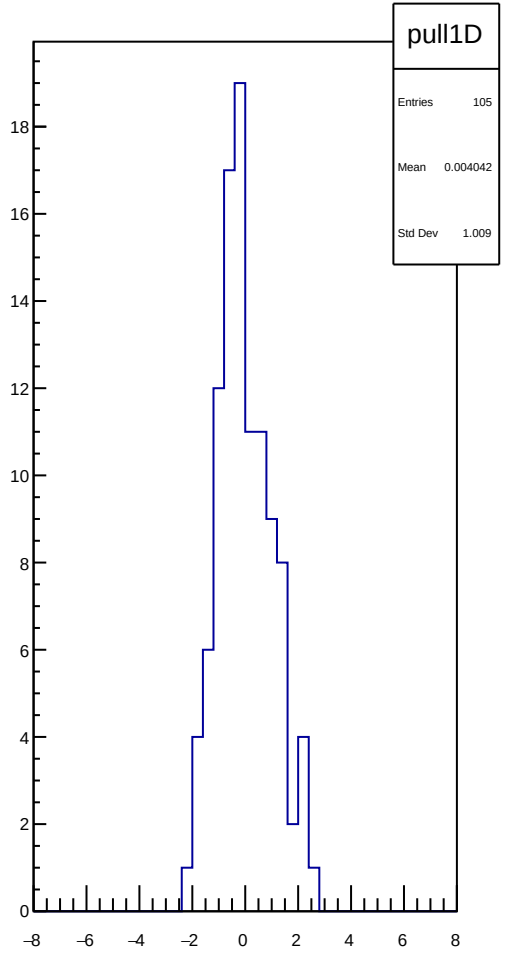

asym_sam_26_avg_cor_correction_rms vs run
χ² / ndf 4.489e+04 / 104
p0 1229 ± 0.8685
1800
1700
1600
1500
1400
1300
1200
1100
1000


eigen_cor_asym_sam_26_avg_mean vs run
χ² / ndf 75.1 / 104
p0 −154.9 ± 121.3
4000
2000
0
−2000
−4000
pull
Entries 105
Mean −489.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 105
Mean 0.01347
Std Dev 0.8456
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_avg_rms vs run
χ² / ndf 3.558e+04 / 104
p0 121.6 ± 0.08579
200
180
160
140
120
100


asym_sam_26_avg_eigen_cor_correction_mean vs run
χ² / ndf 107 / 104
p0 −3331 ± 1228
60000
40000
20000
0
−20000
−40000
pull
Entries 105
Mean −312.5
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 105
Mean 0.004042
Std Dev 1.009
18
16
14
12
10
8
6
4
2
0
−8
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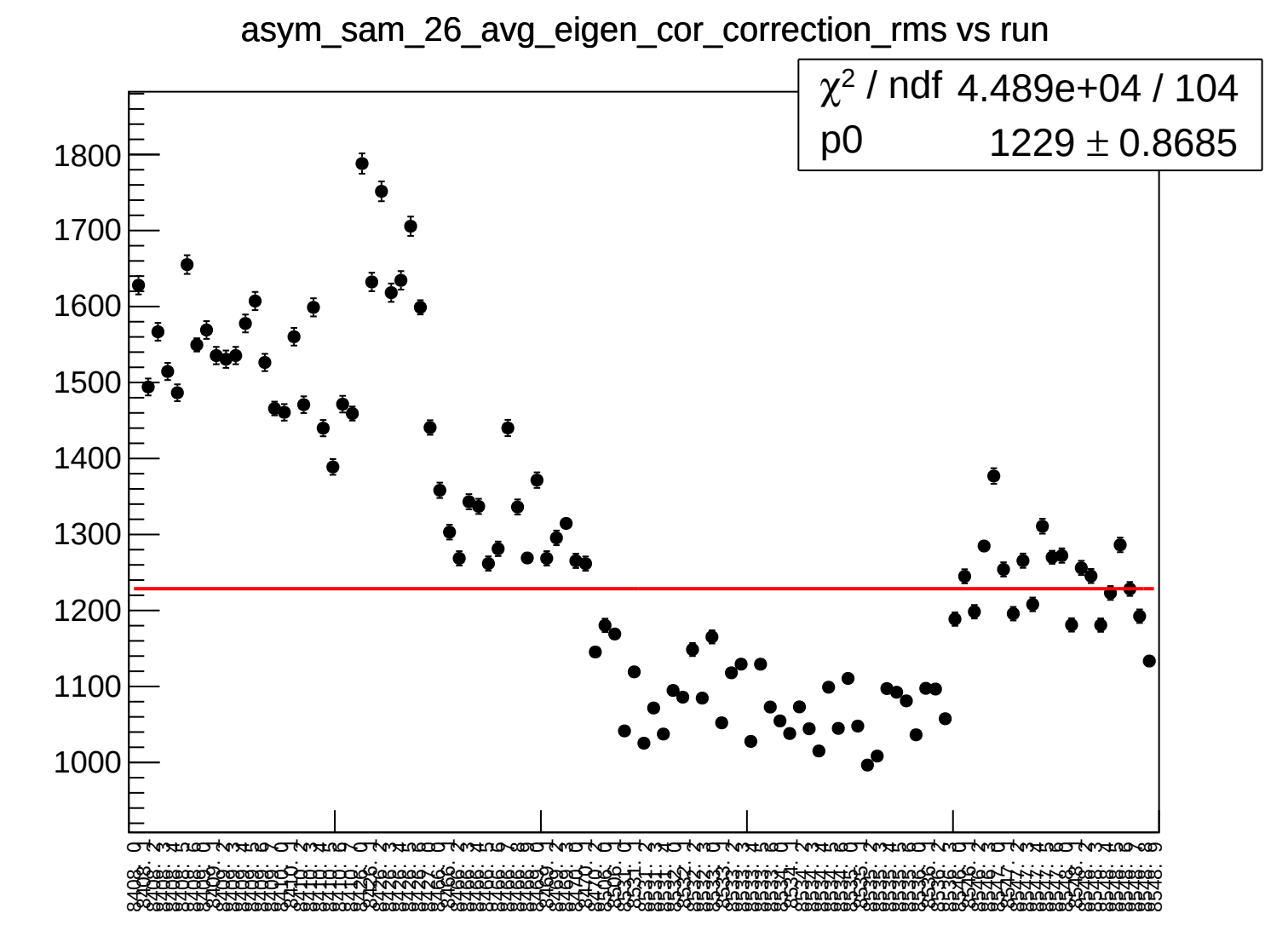
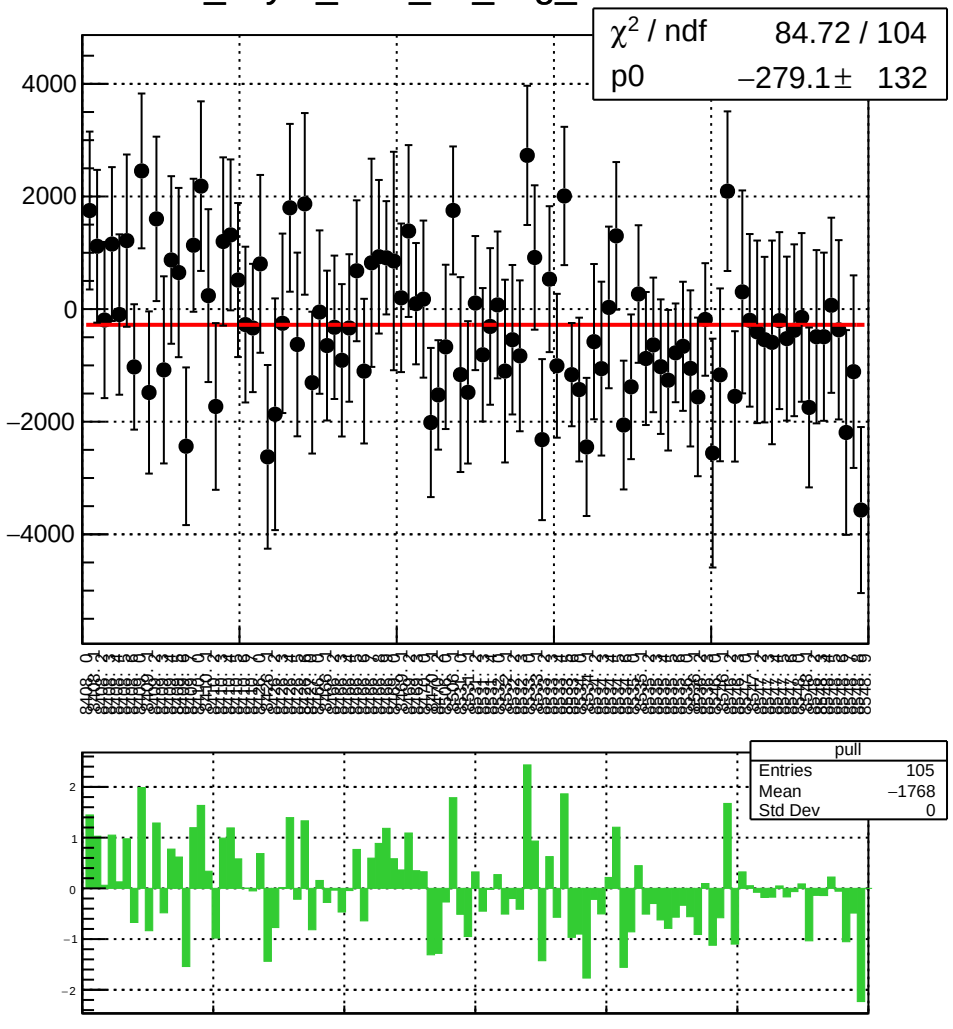
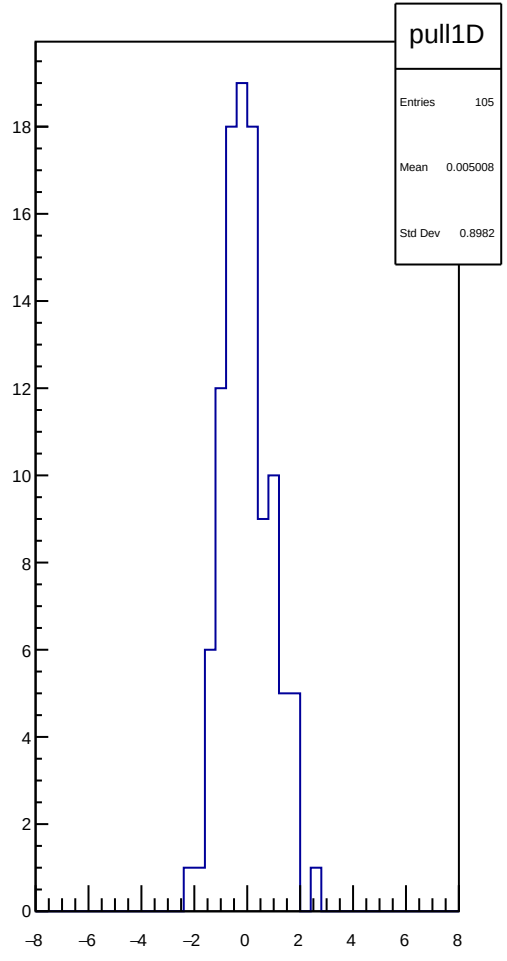
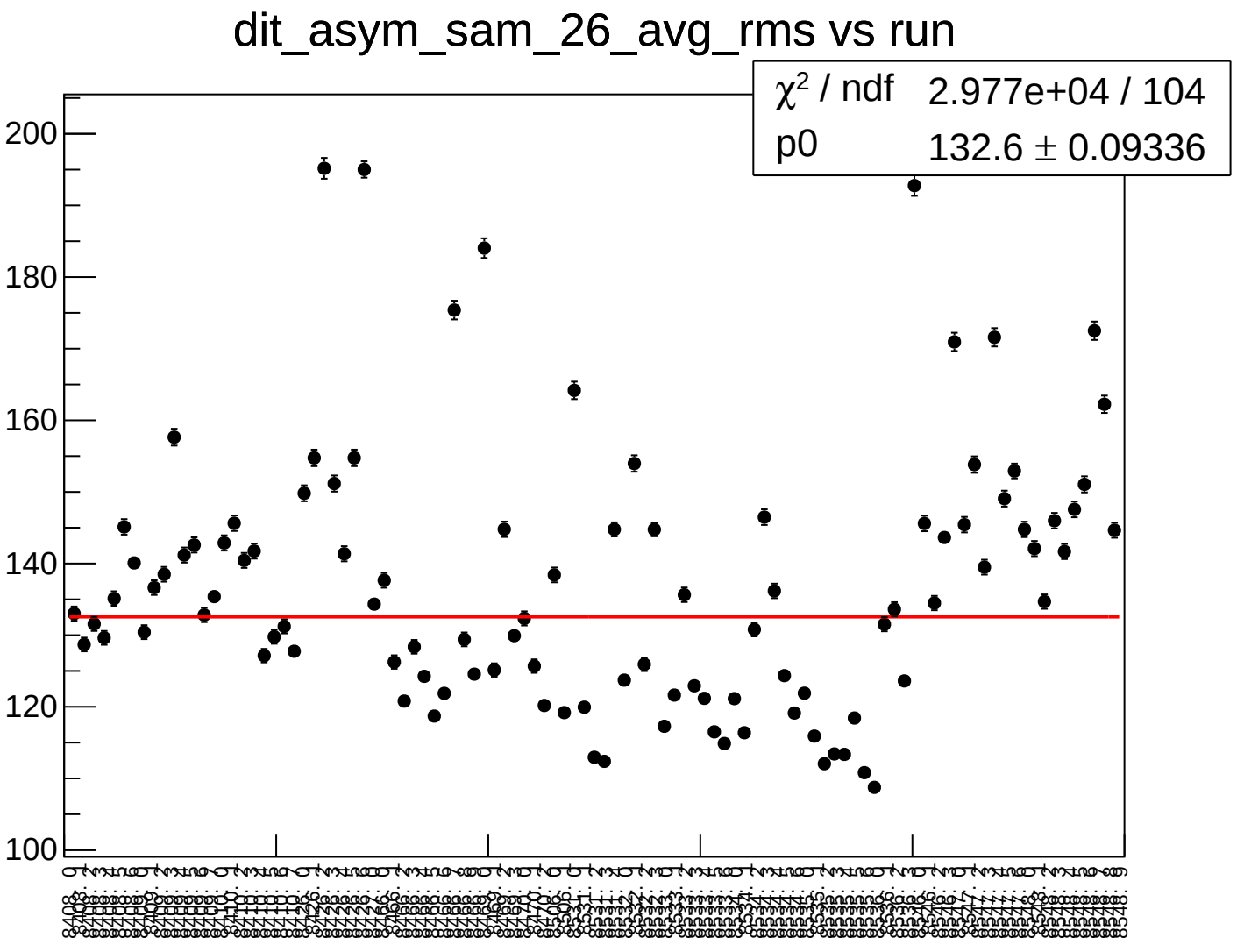
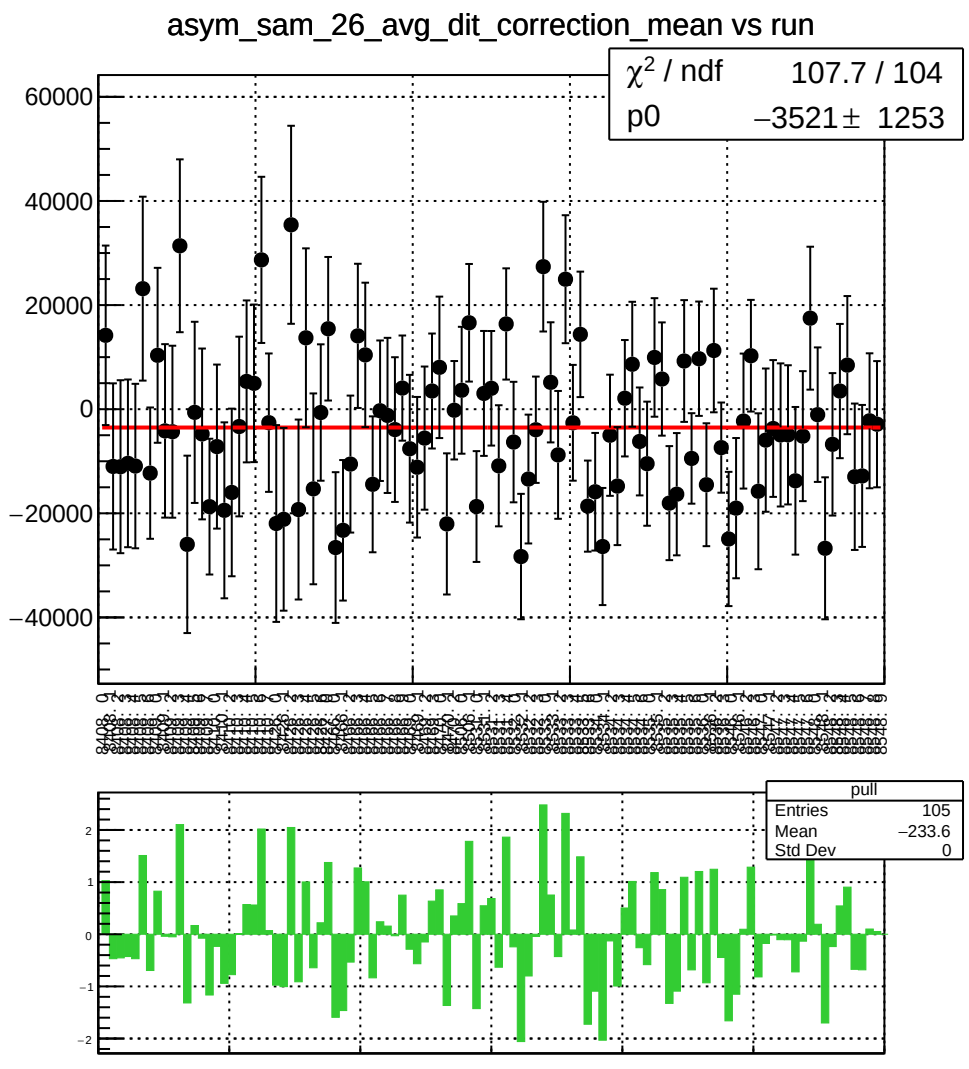
2
4
6
8

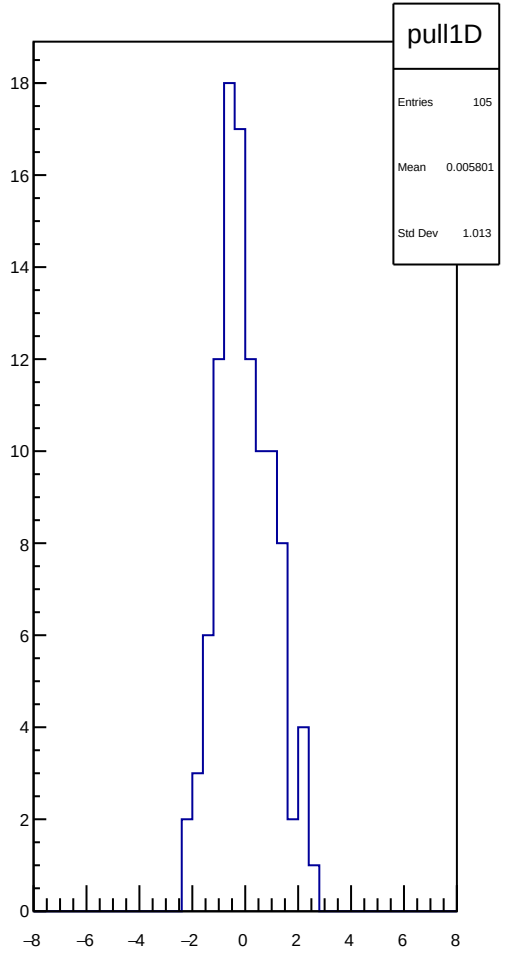

asym_sam_26_avg_eigen_cor_correction_rms vs run
χ² / ndf 4.489e+04 / 104
p0 1229 ± 0.8685
1800
1700
1600
1500
1400
1300
1200
1100
1000

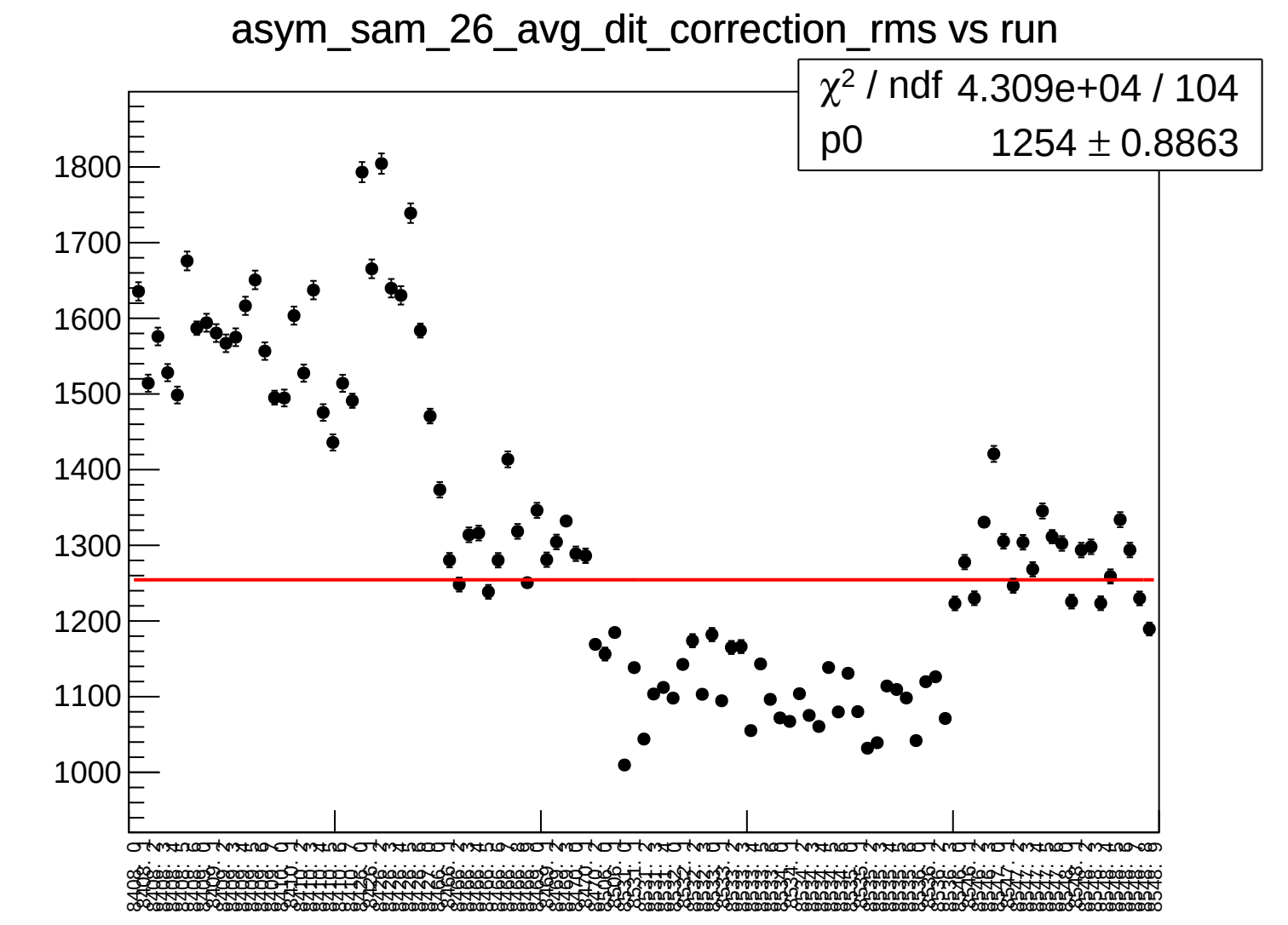

dit_asym_sam_26_avg_mean vs run
χ² / ndf 84.72 / 104
p0 −279.1± 132
4000
2000
0
−2000
−4000
pull
Entries 105
Mean −1768
Std Dev 0
2
1
0
−1
−2

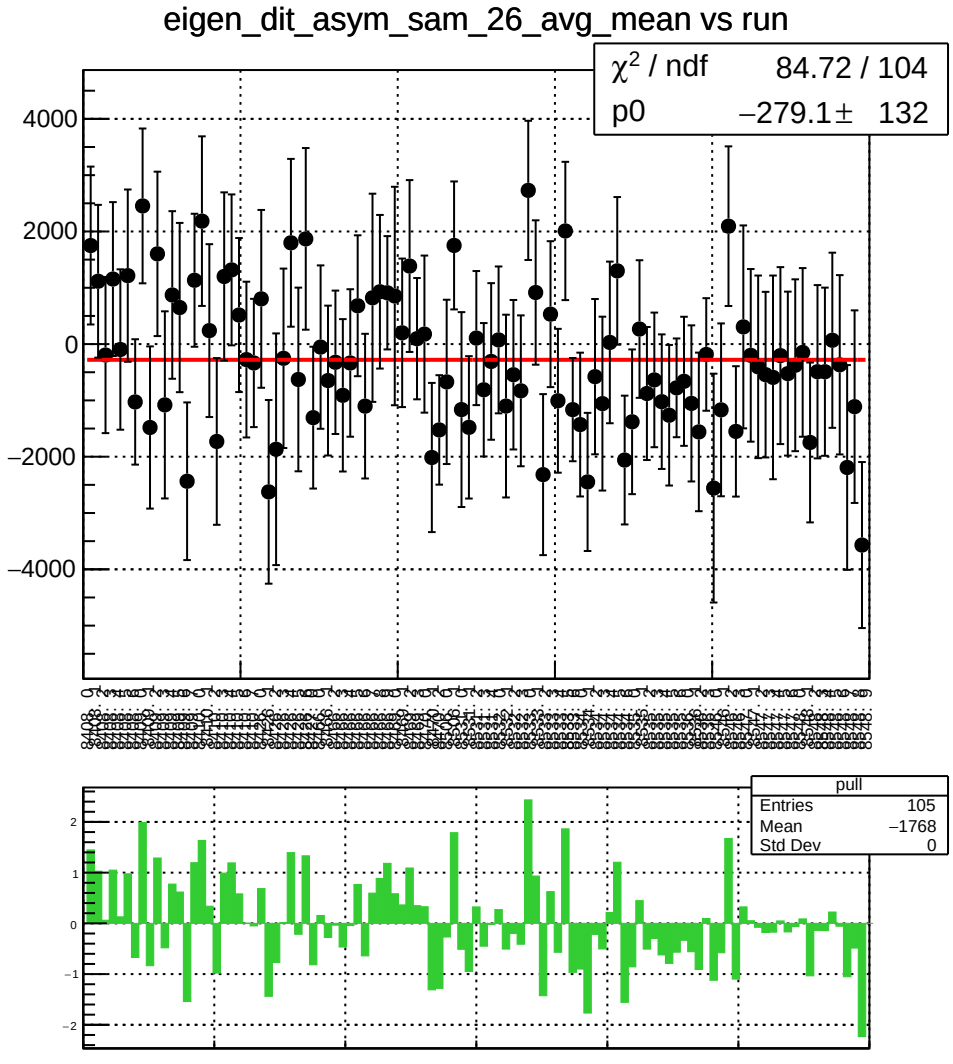

pull1D
Entries 105
Mean 0.005008
Std Dev 0.8982
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

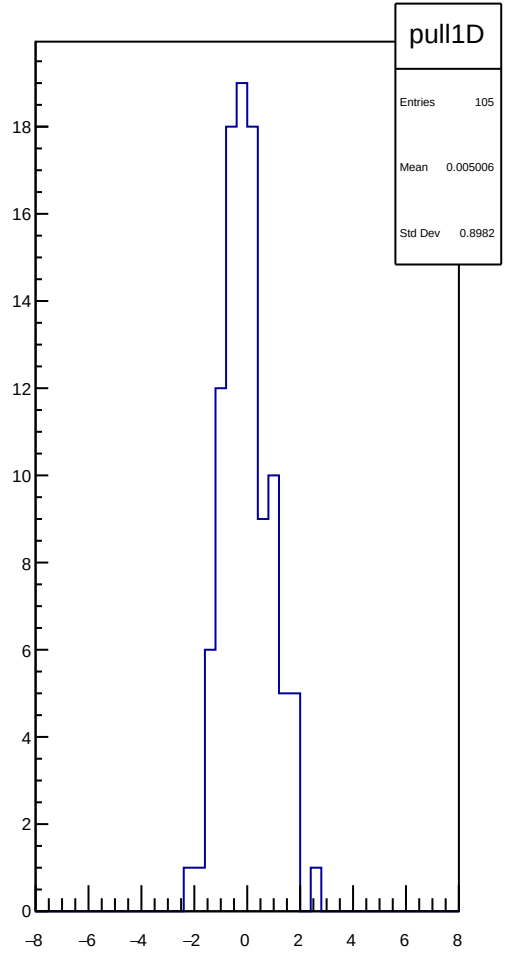

dit_asym_sam_26_avg_rms vs run
χ² / ndf 2.977e+04 / 104
p0 132.6 ± 0.09336
200
180
160
140
120
100

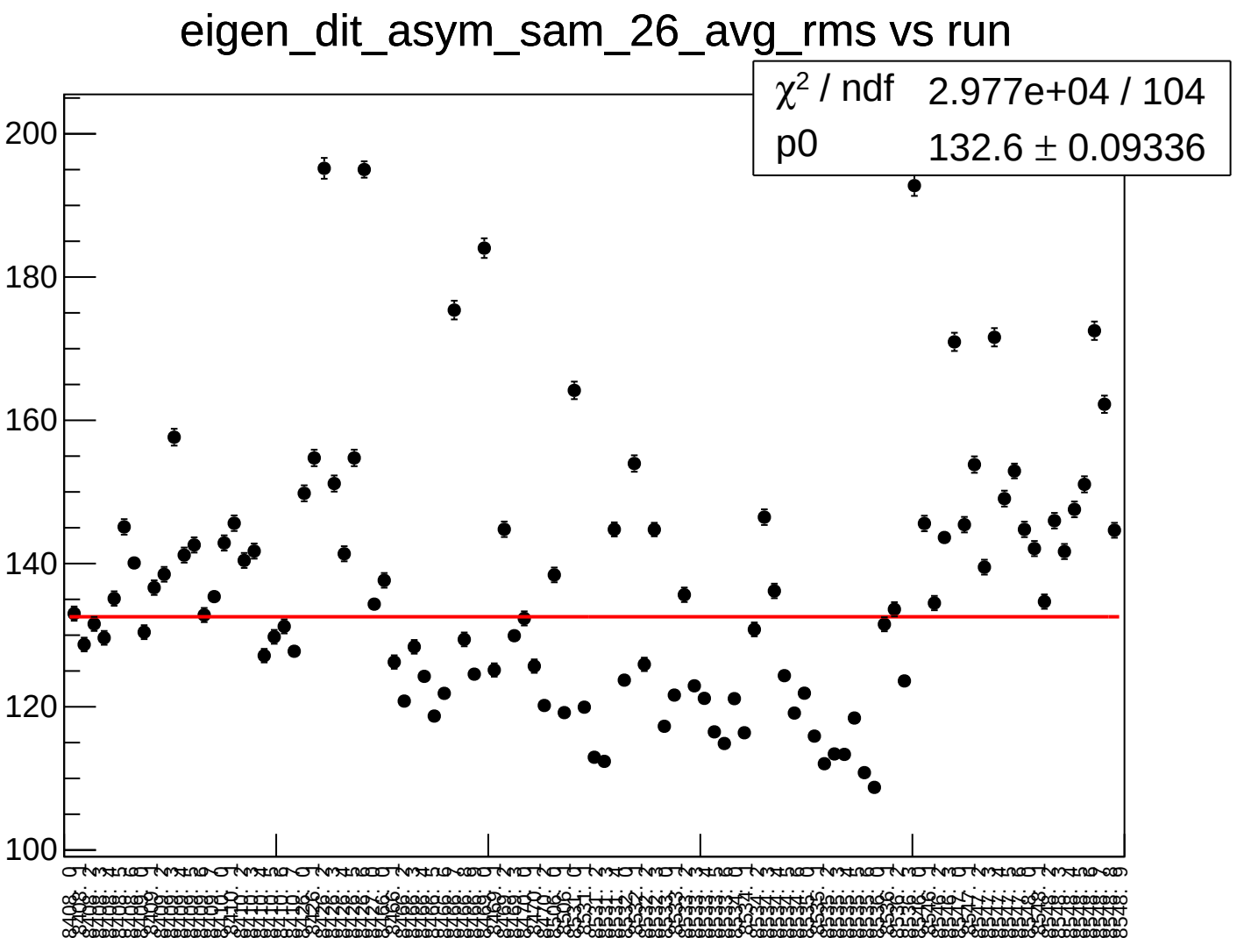

asym_sam_26_avg_dit_correction_mean vs run
χ² / ndf 107.7 / 104
p0 −3521 ± 1253
60000
40000
20000
0
−20000
−40000
pull
Entries 105
Mean −233.6
Std Dev 0
2
1
0
−1
−2

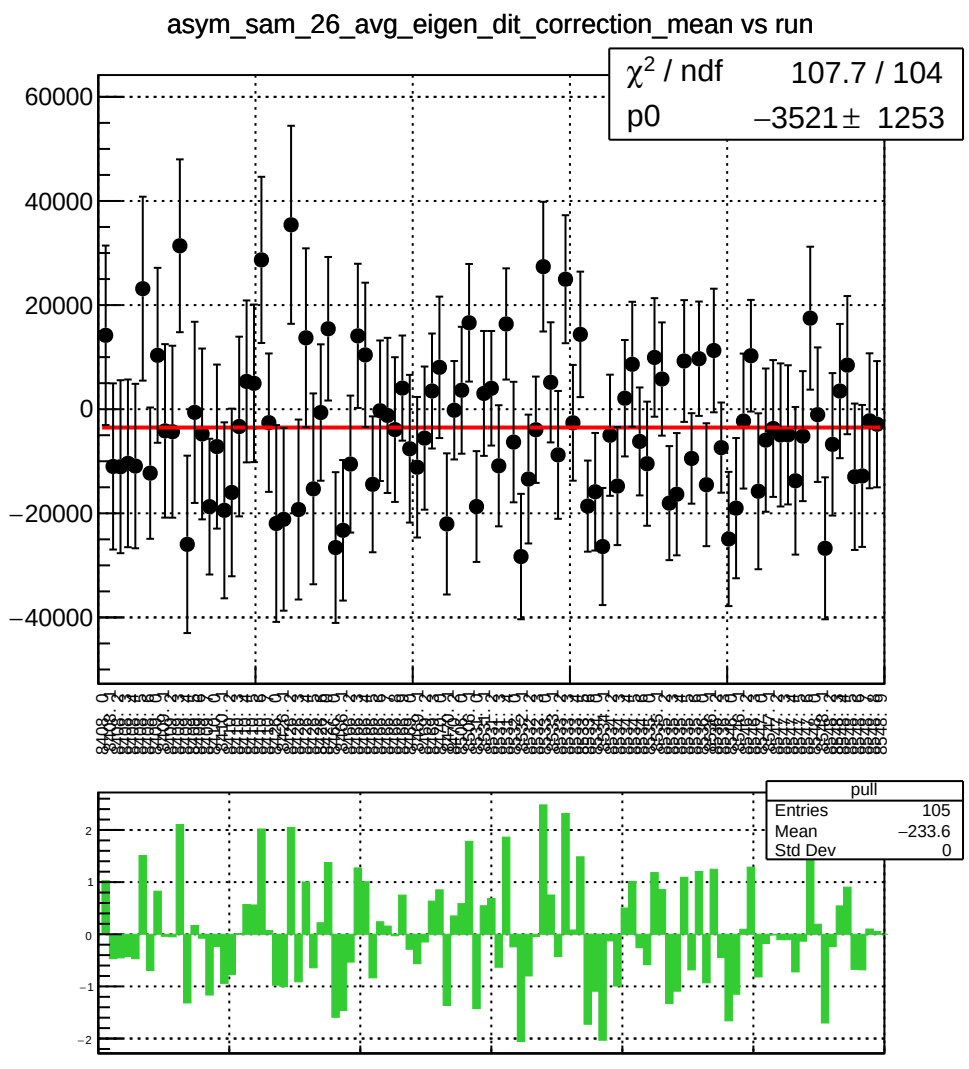

pull1D
Entries 105
Mean 0.005801
Std Dev 1.013
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

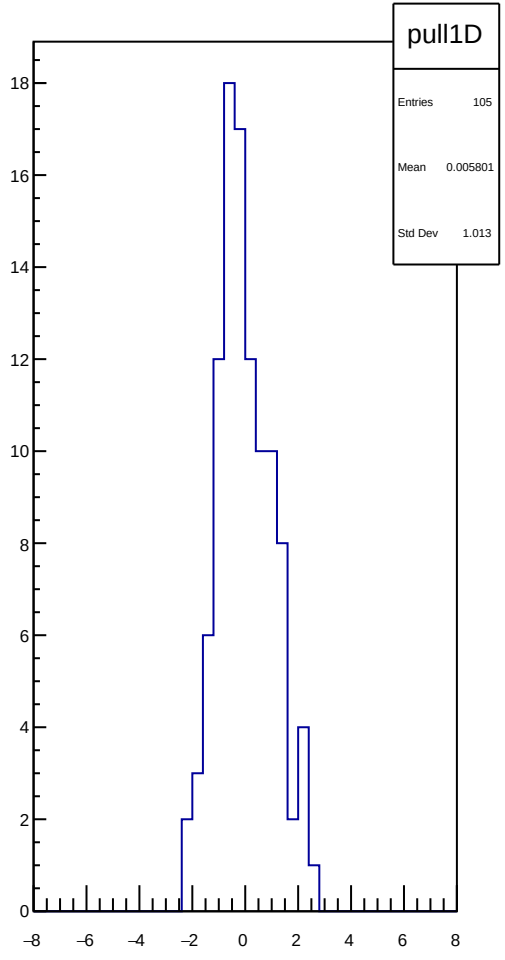

asym_sam_26_avg_dit_correction_rms vs run
χ² / ndf 4.309e+04 / 104
p0 1254 ± 0.8863
1800
1700
1600
1500
1400
1300
1200
1100
1000

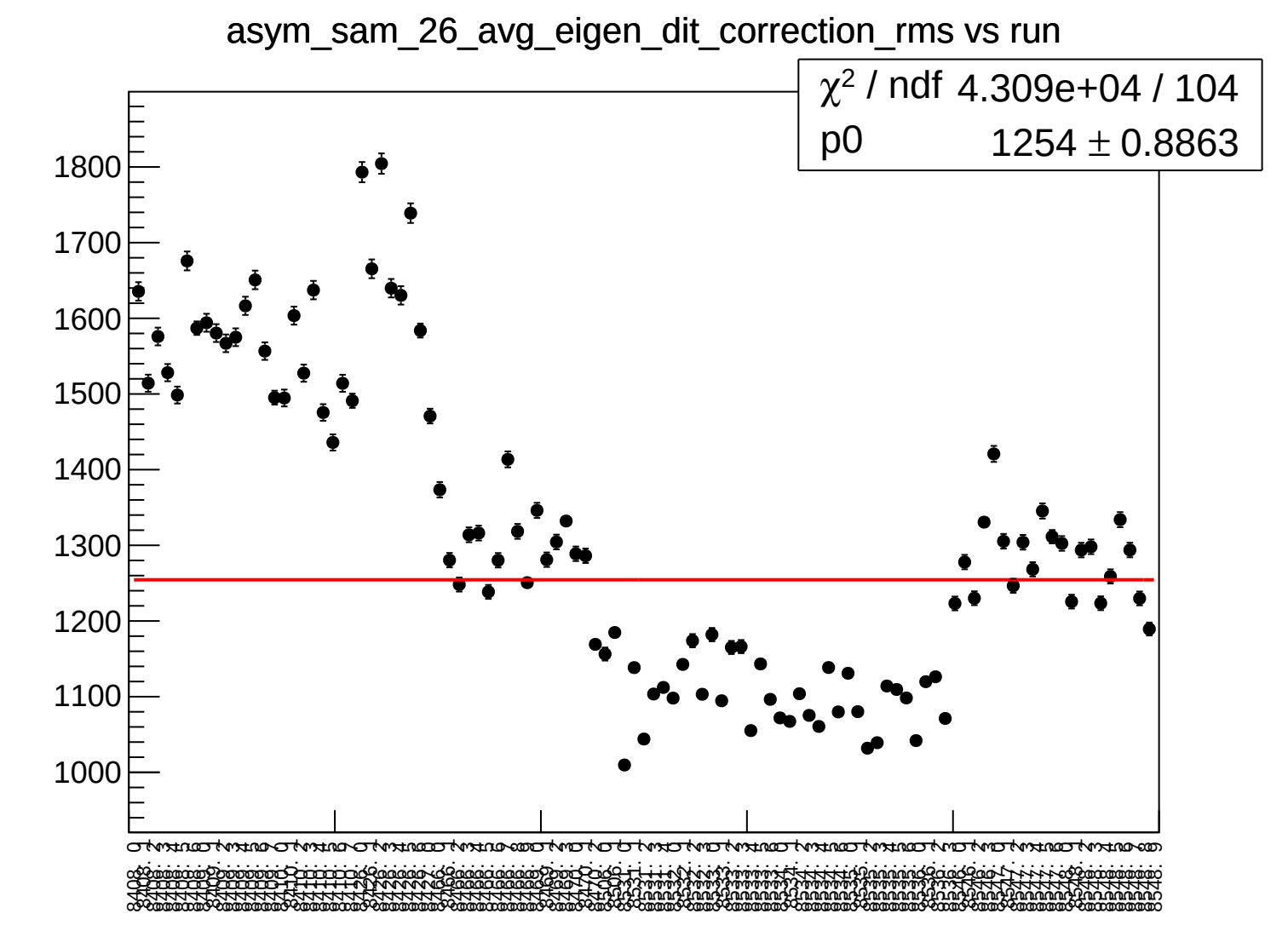

eigen_dit_asym_sam_26_avg_mean vs run
χ² / ndf 84.72 / 104
p0 −279.1± 132
4000
2000
0
−2000
−4000
pull
Entries 105
Mean −1768
Std Dev 0
2
1
0
−1
−2

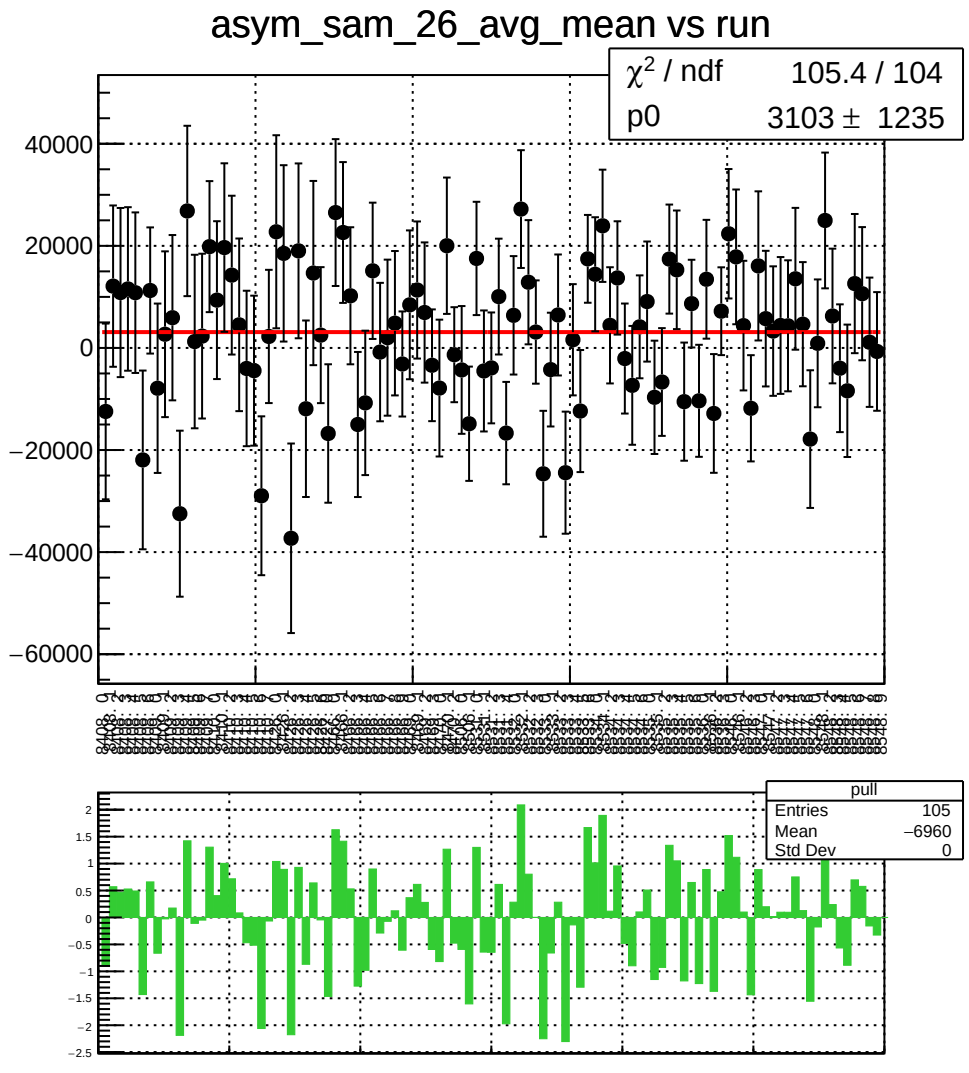

pull1D
Entries 105
Mean 0.005006
Std Dev 0.8982
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

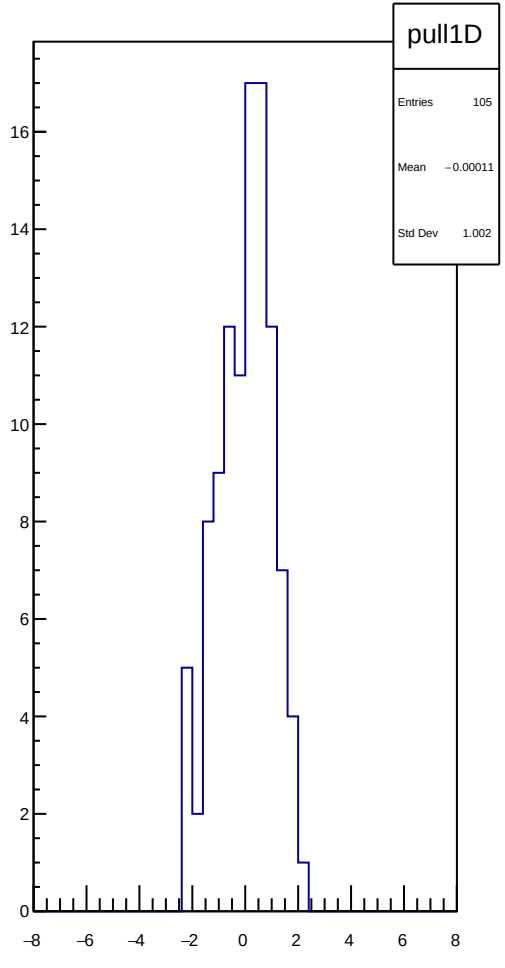

eigen_dit_asym_sam_26_avg_rms vs run
χ² / ndf 2.977e+04 / 104
p0 132.6 ± 0.09336
200
180
160
140
120
100

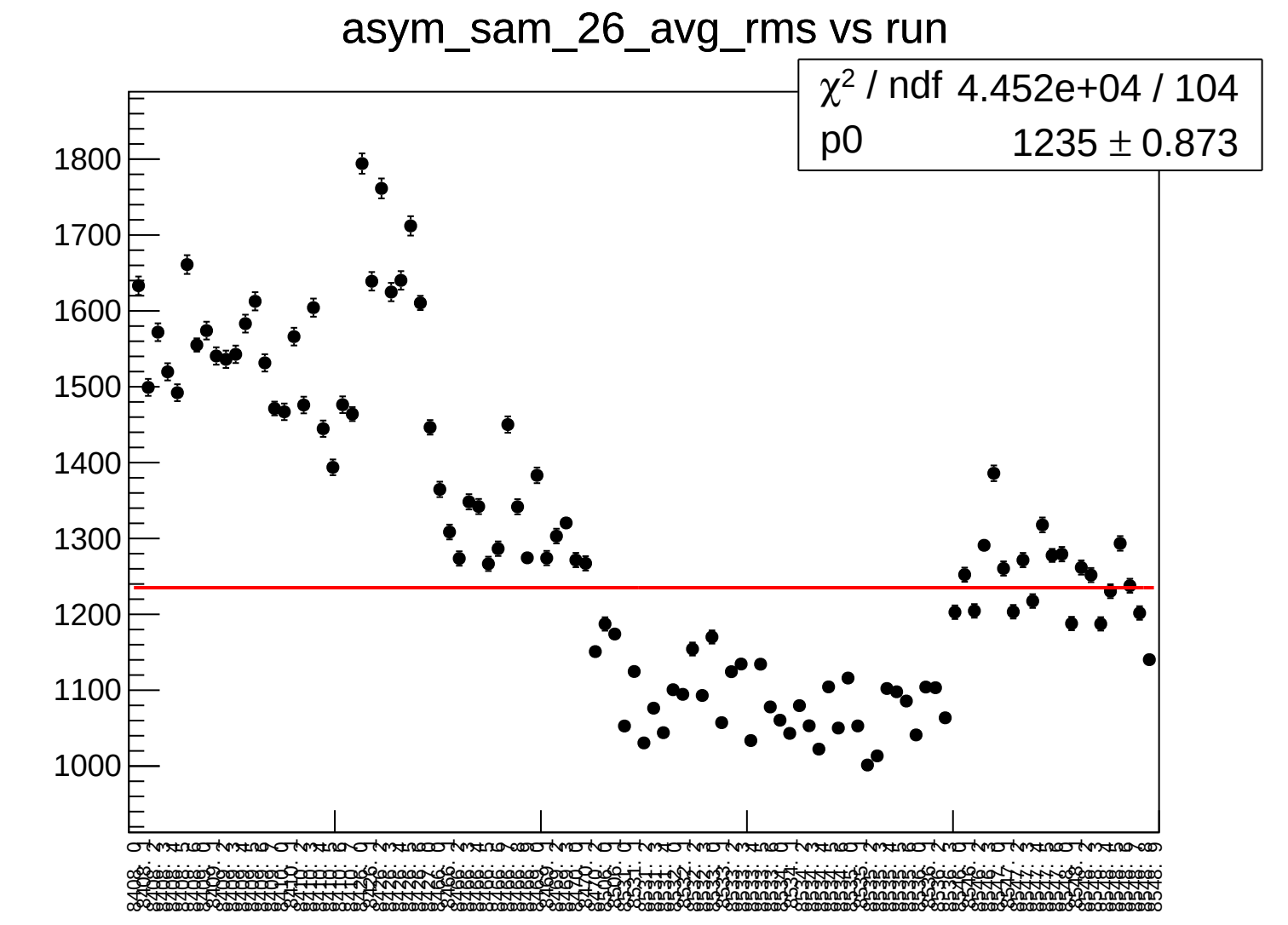

asym_sam_26_avg_eigen_dit_correction_mean vs run
χ² / ndf 107.7 / 104
p0 −3521 ± 1253
60000
40000
20000
0
−20000
−40000
pull
Entries 105
Mean −233.6
Std Dev 0
2
1
0
−1
−2

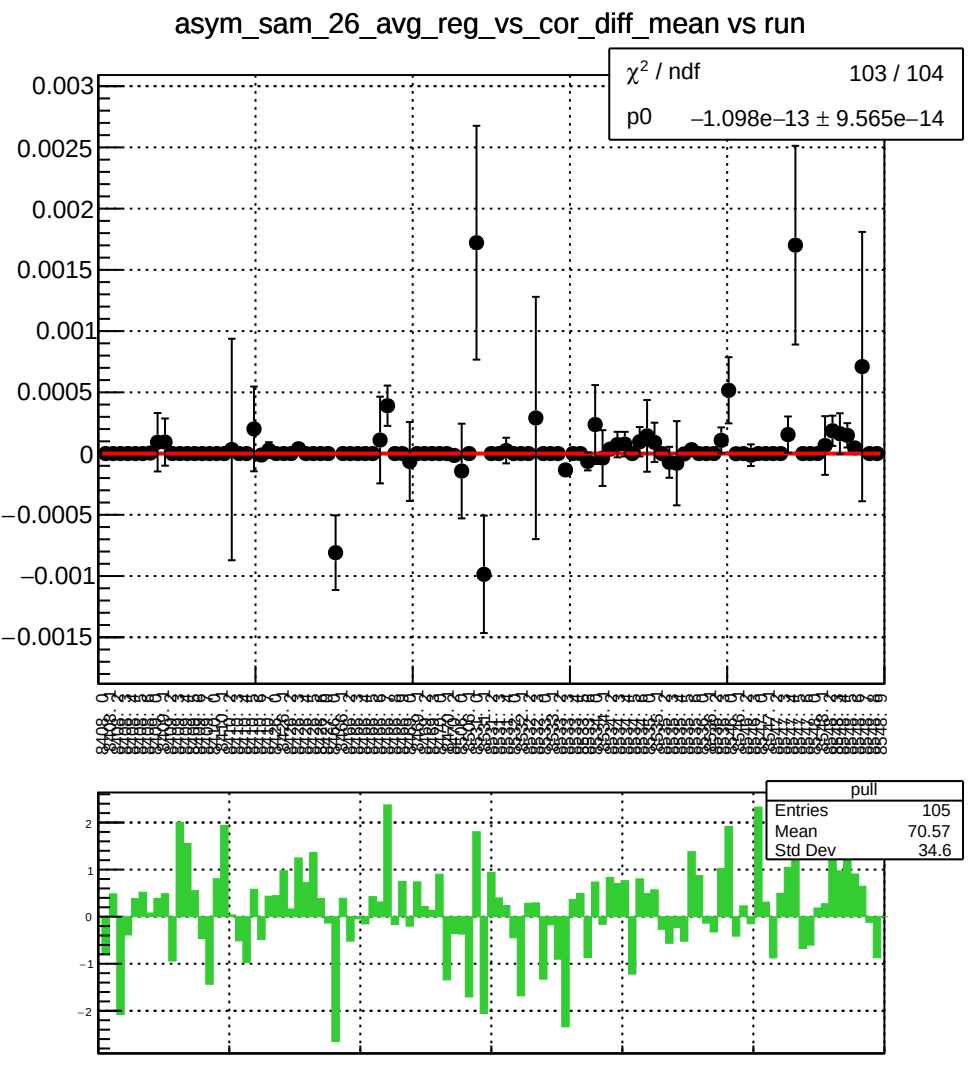

pull1D
Entries 105
Mean 0.005801
Std Dev 1.013
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

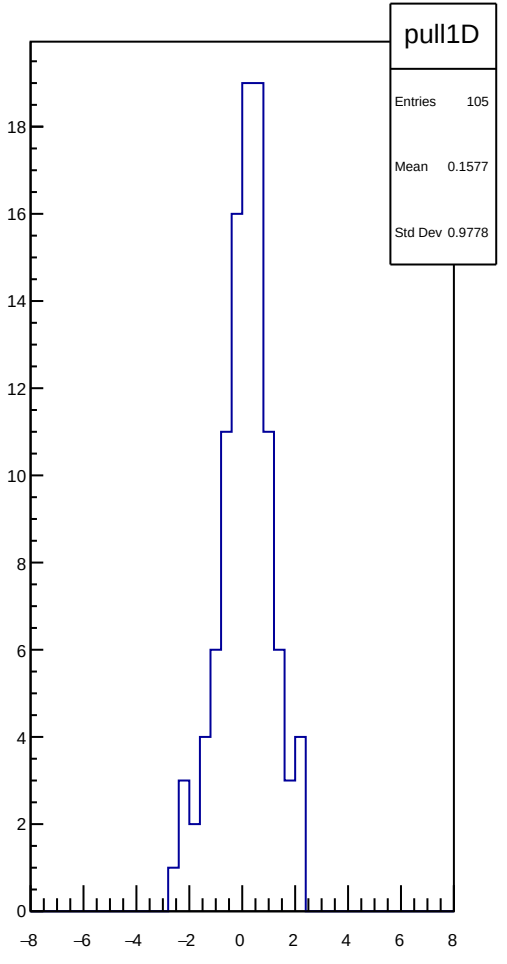

asym_sam_26_avg_eigen_dit_correction_rms vs run
χ² / ndf 4.309e+04 / 104
p0 1254 ± 0.8863
1800
1700
1600
1500
1400
1300
1200
1100
1000

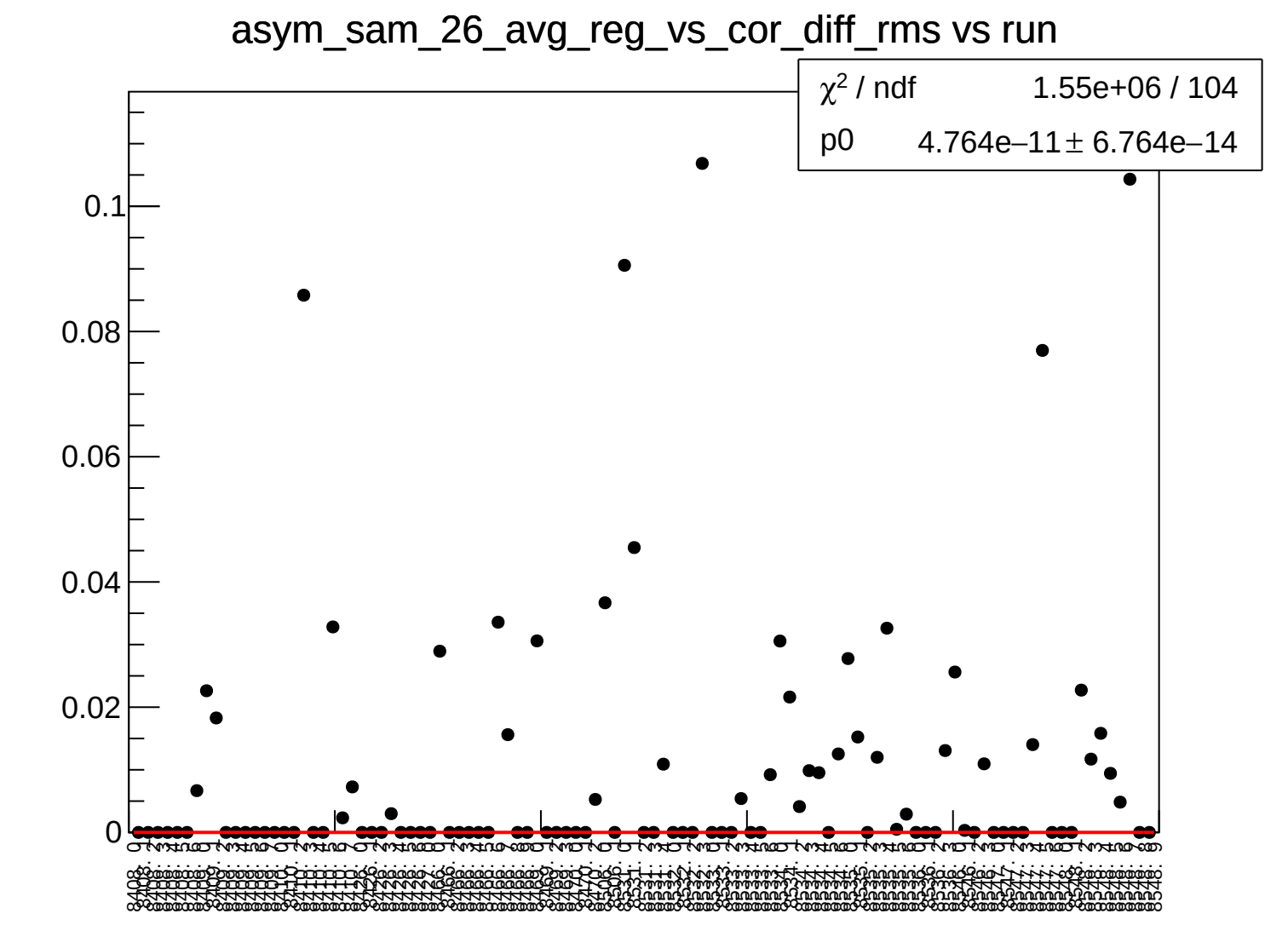

asym_sam_26_avg_mean vs run
χ² / ndf 105.4 / 104
p0 3103 ± 1235
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean −6960
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

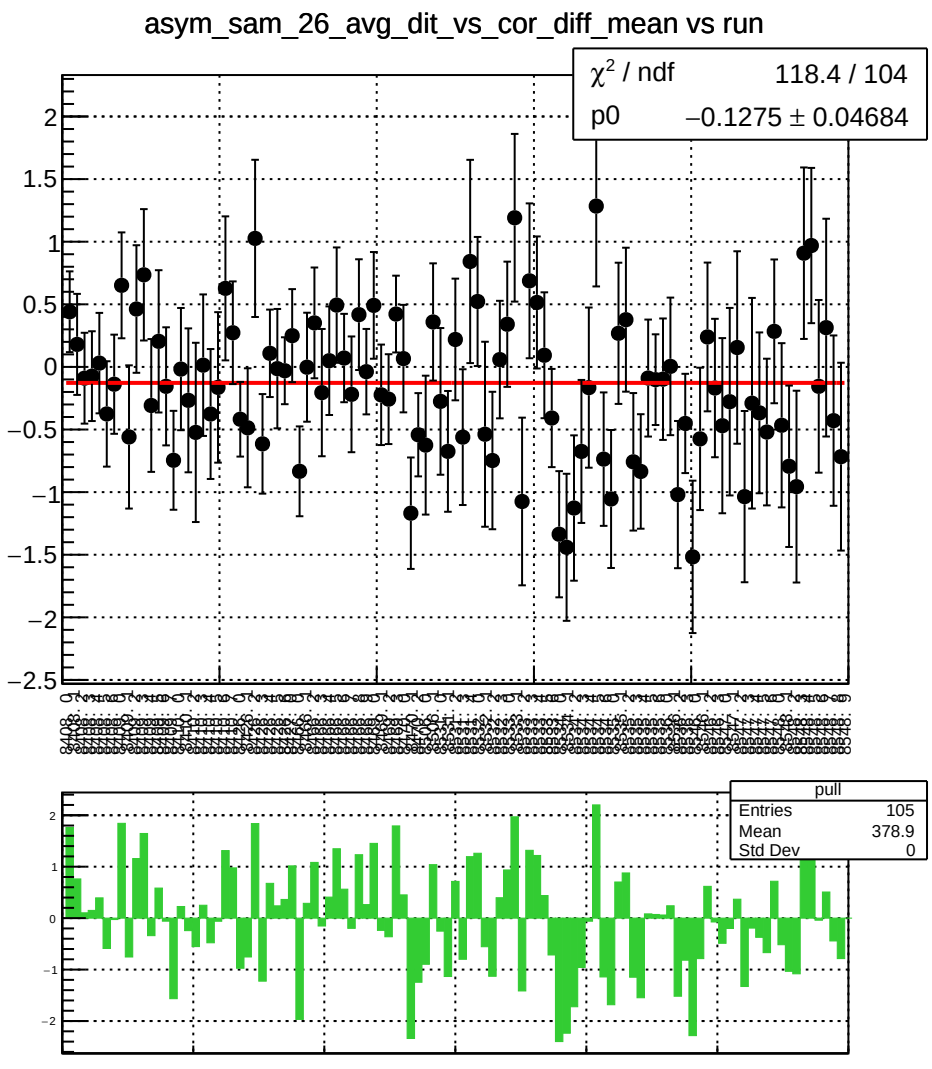

pull1D
Entries 105
Mean −0.00011
Std Dev 1.002
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

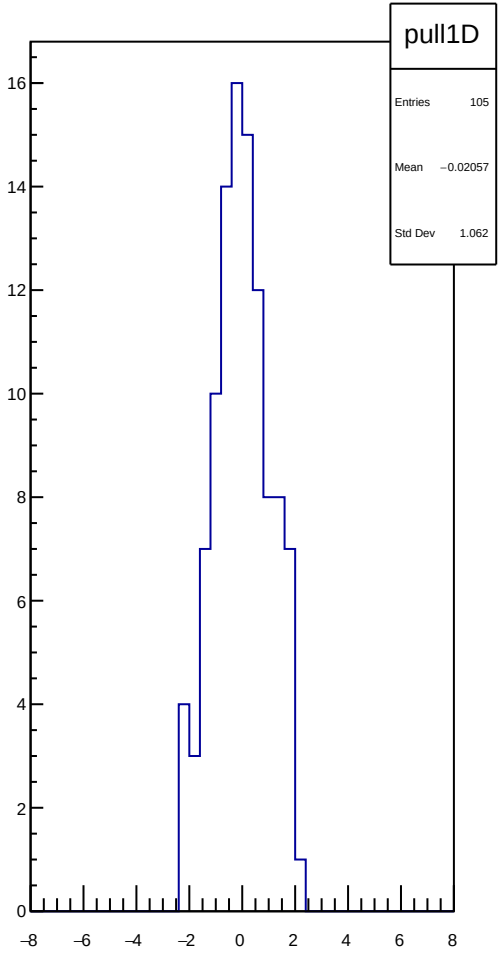

asym_sam_26_avg_rms vs run
χ² / ndf 4.452e+04 / 104
p0 1235 ± 0.873
1800
1700
1600
1500
1400
1300
1200
1100
1000

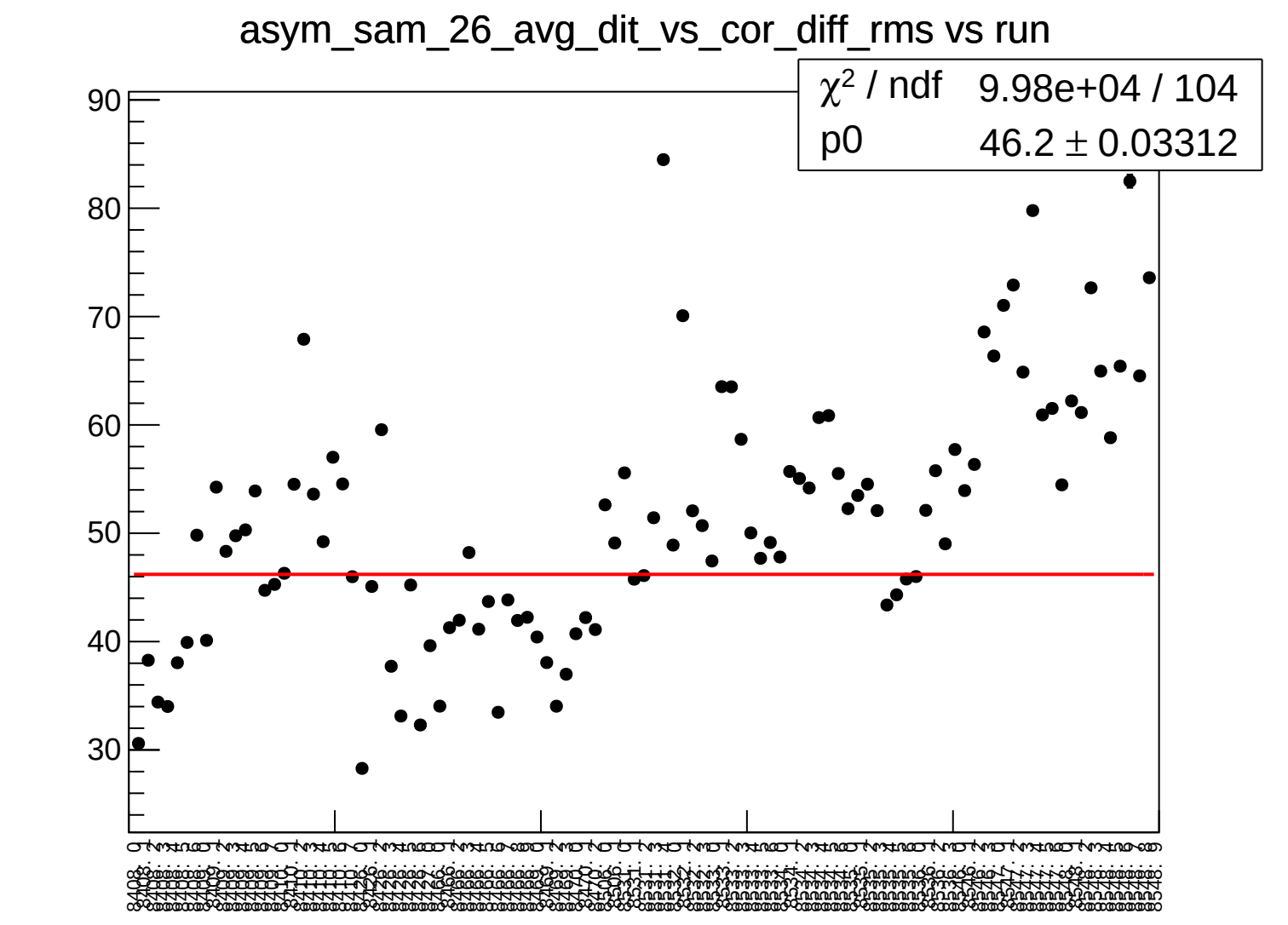

asym_sam_26_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 103 / 104
p0 −1.098e−13 ± 9.565e−14
0.003
0.0025
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 105
Mean 70.57
Std Dev 34.6
2
1
0
−1
−2

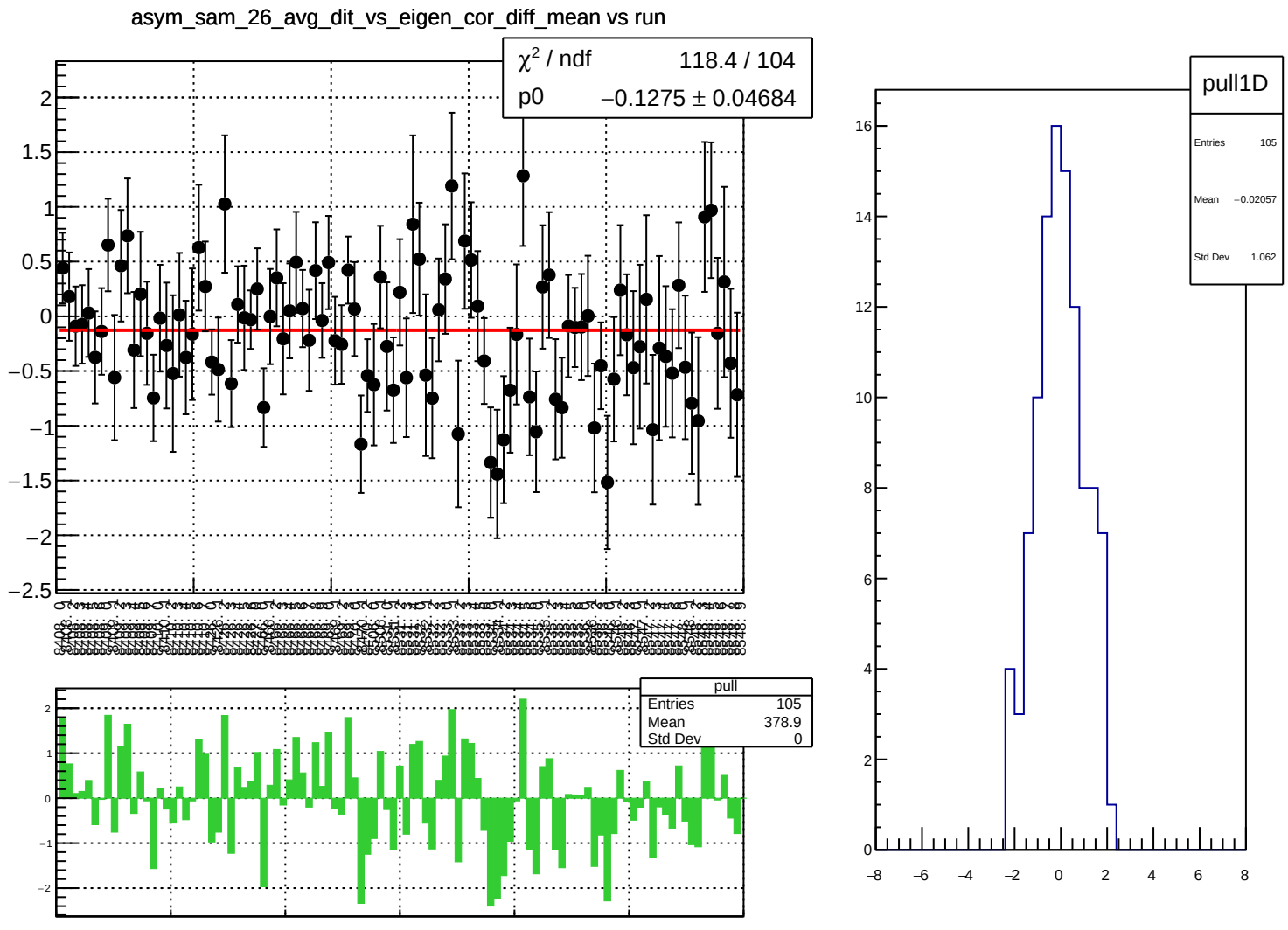

pull1D
Entries 105
Mean 0.1577
Std Dev 0.9778
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

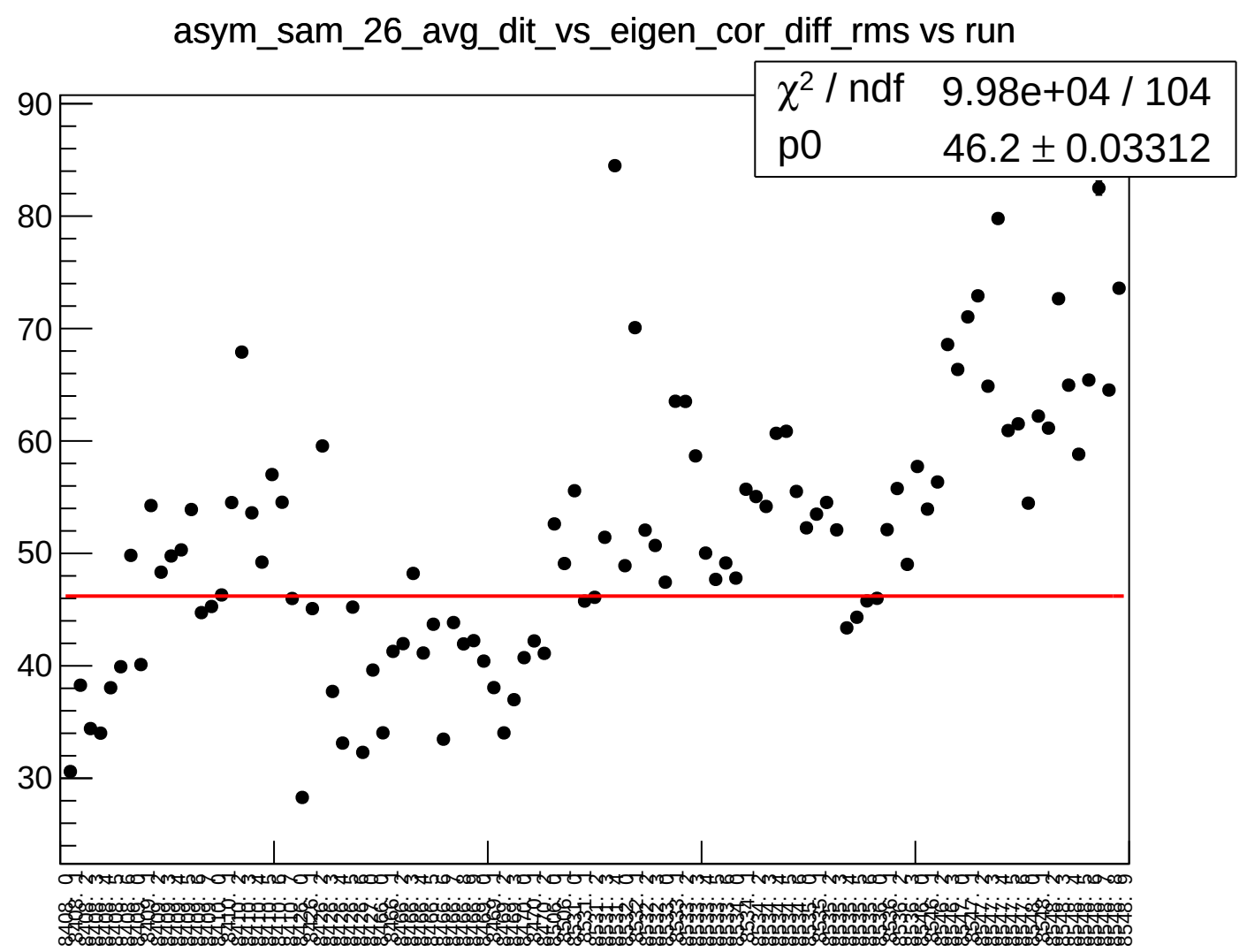

asym_sam_26_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.55e+06 / 104
p0 4.764e−11 ± 6.764e−14
0.1
0.08
0.06
0.04
0.02
0

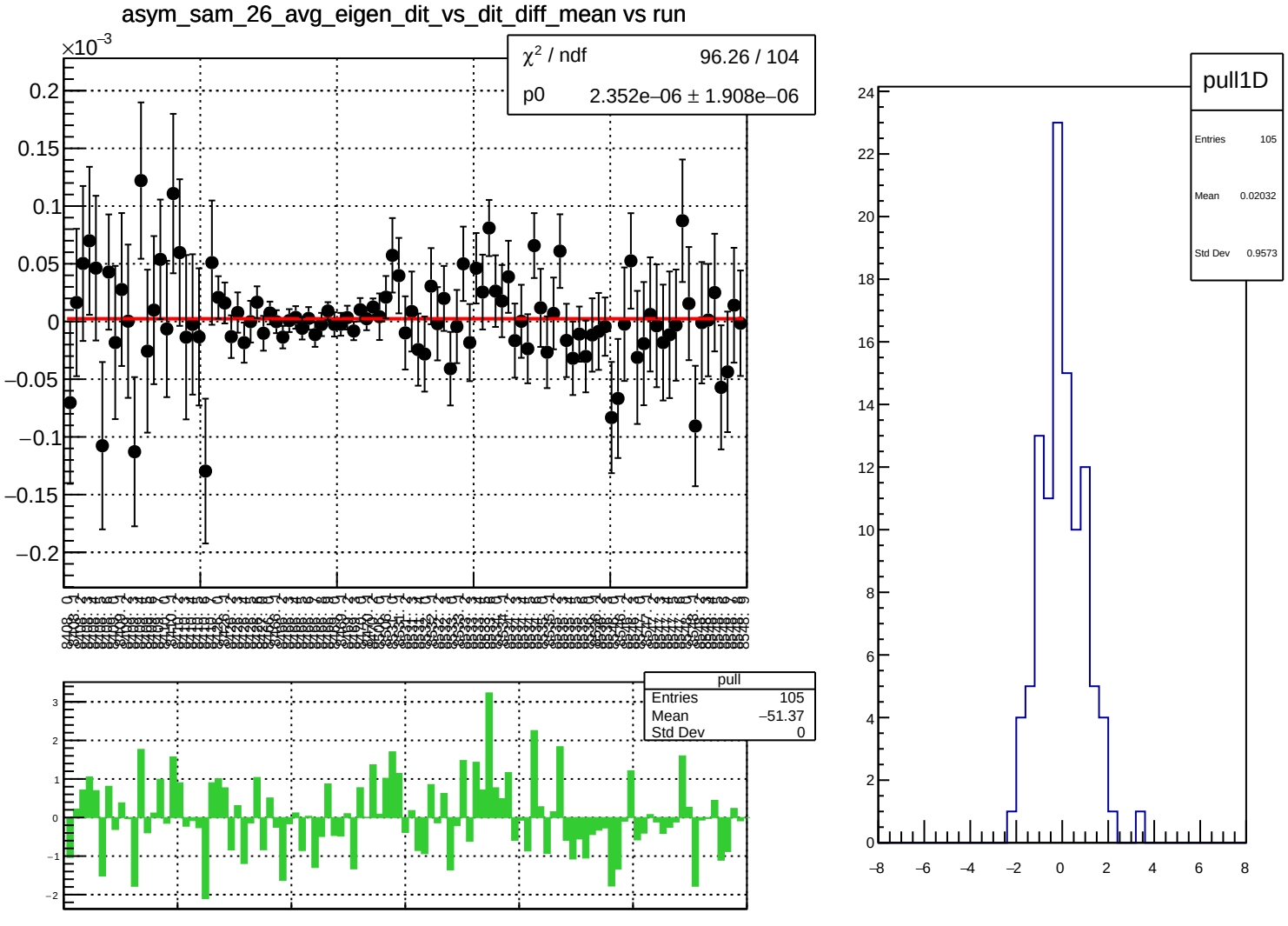

asym_sam_26_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 118.4 / 104
p0 −0.1275 ± 0.04684
pull
Entries 105
Mean 378.9
Std Dev 0

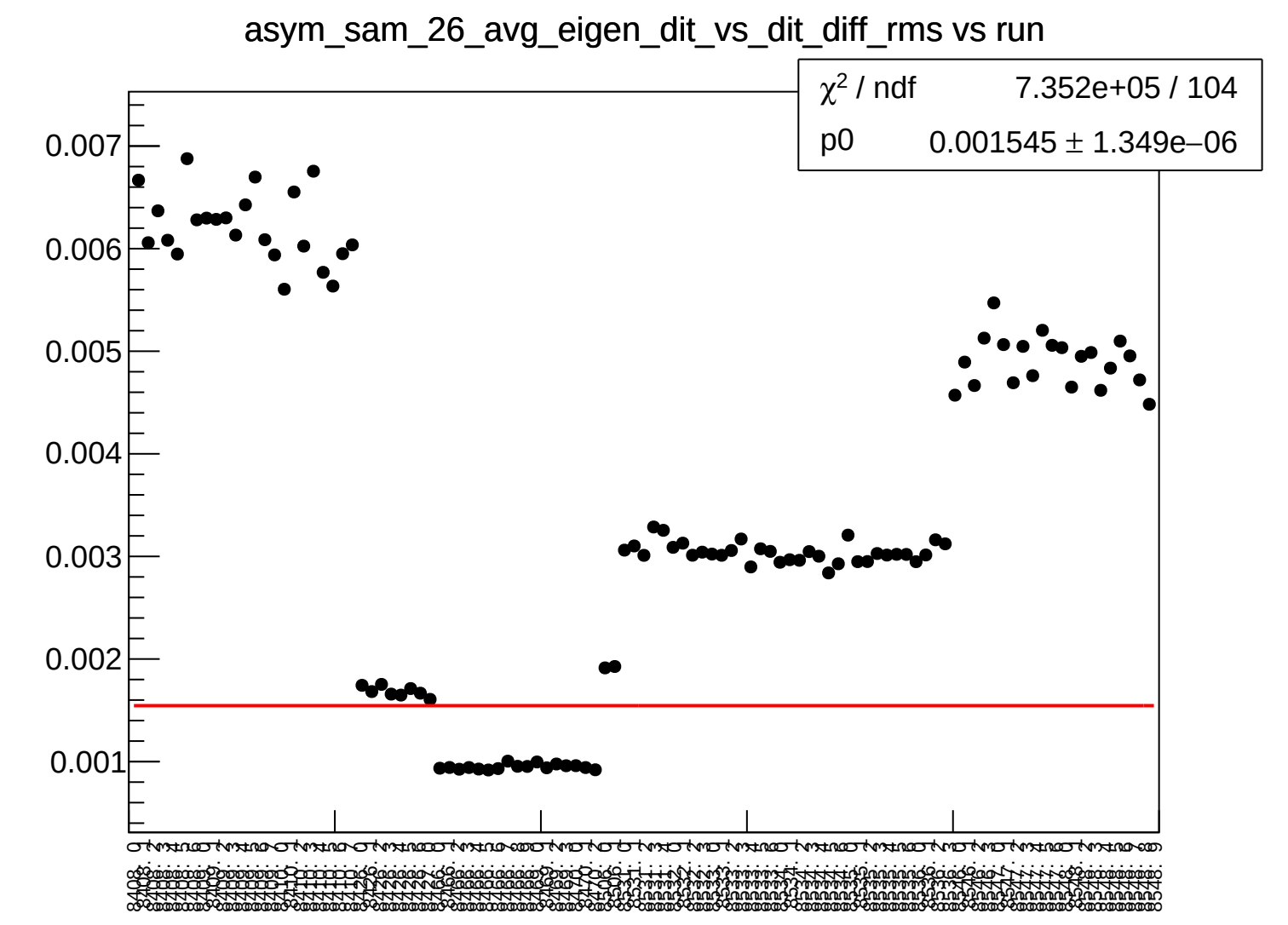

pull1D
Entries 105
Mean −0.02057
Std Dev 1.062

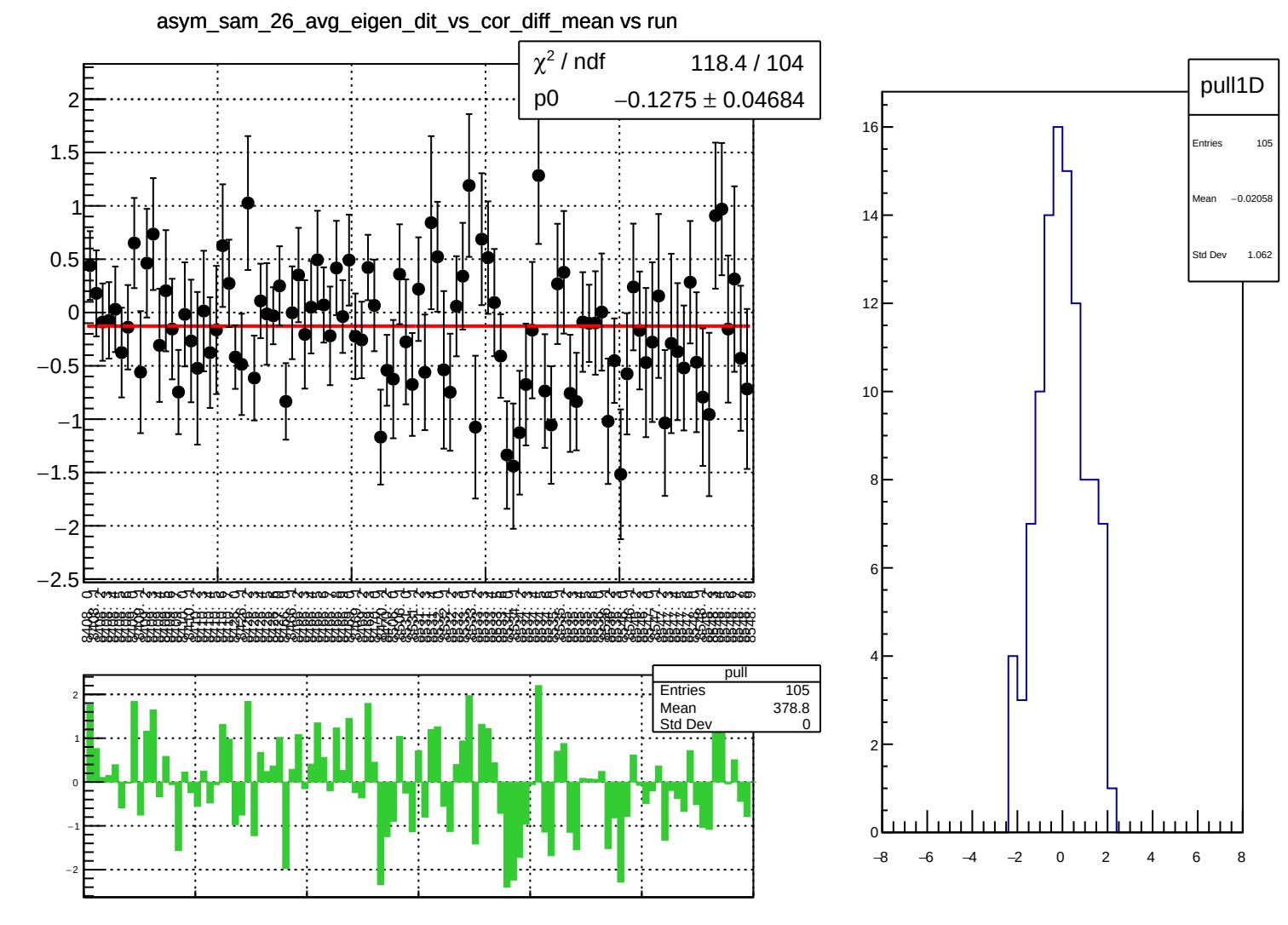

asym_sam_26_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 9.98e+04 / 104
p0 46.2 ± 0.03312
90
80
70
60
50
40
30

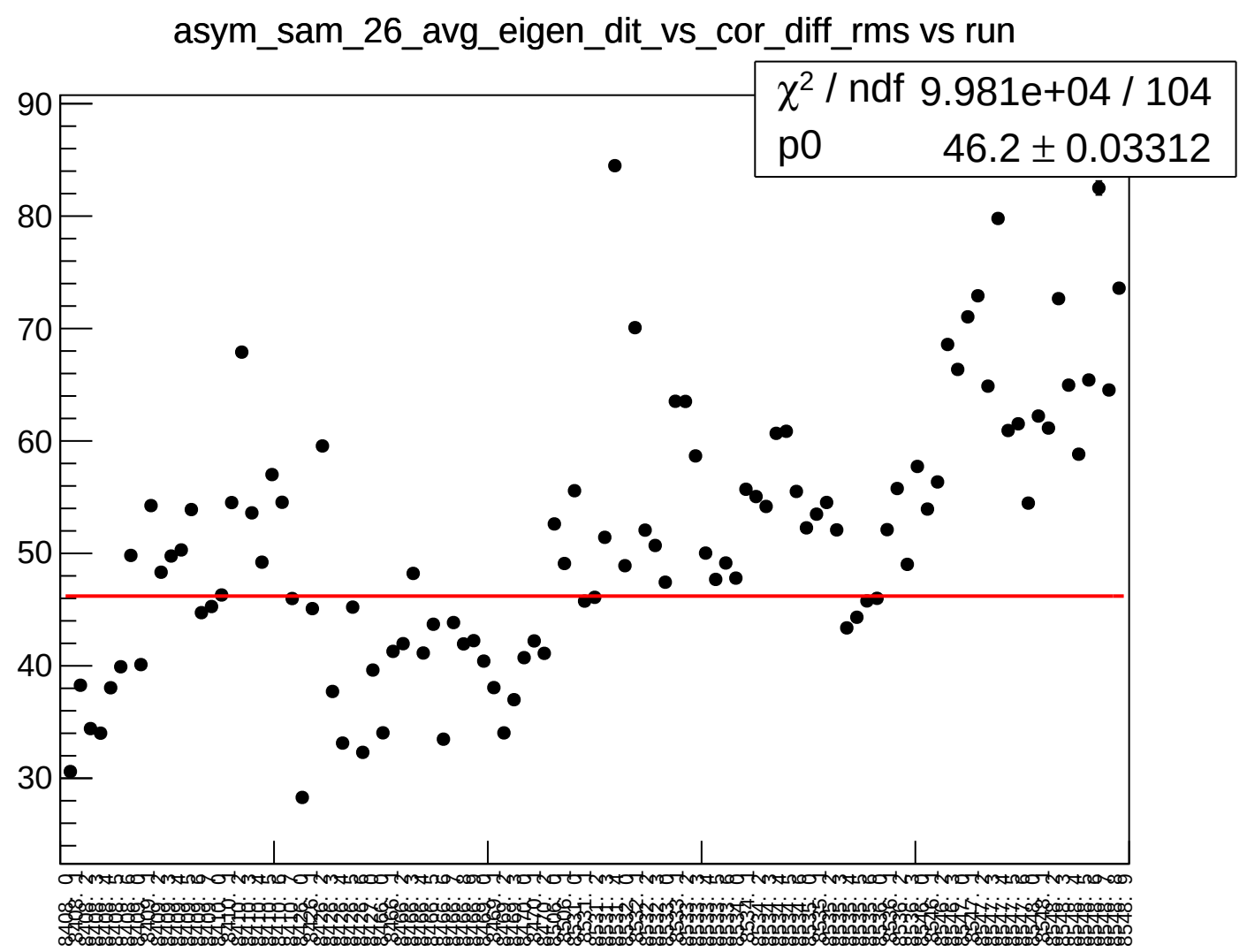

asym_sam_26_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 118.4 / 104
p0 −0.1275 ± 0.04684
pull
Entries 105
Mean 378.9
Std Dev 0
pull1D
Entries 105
Mean −0.02057
Std Dev 1.062

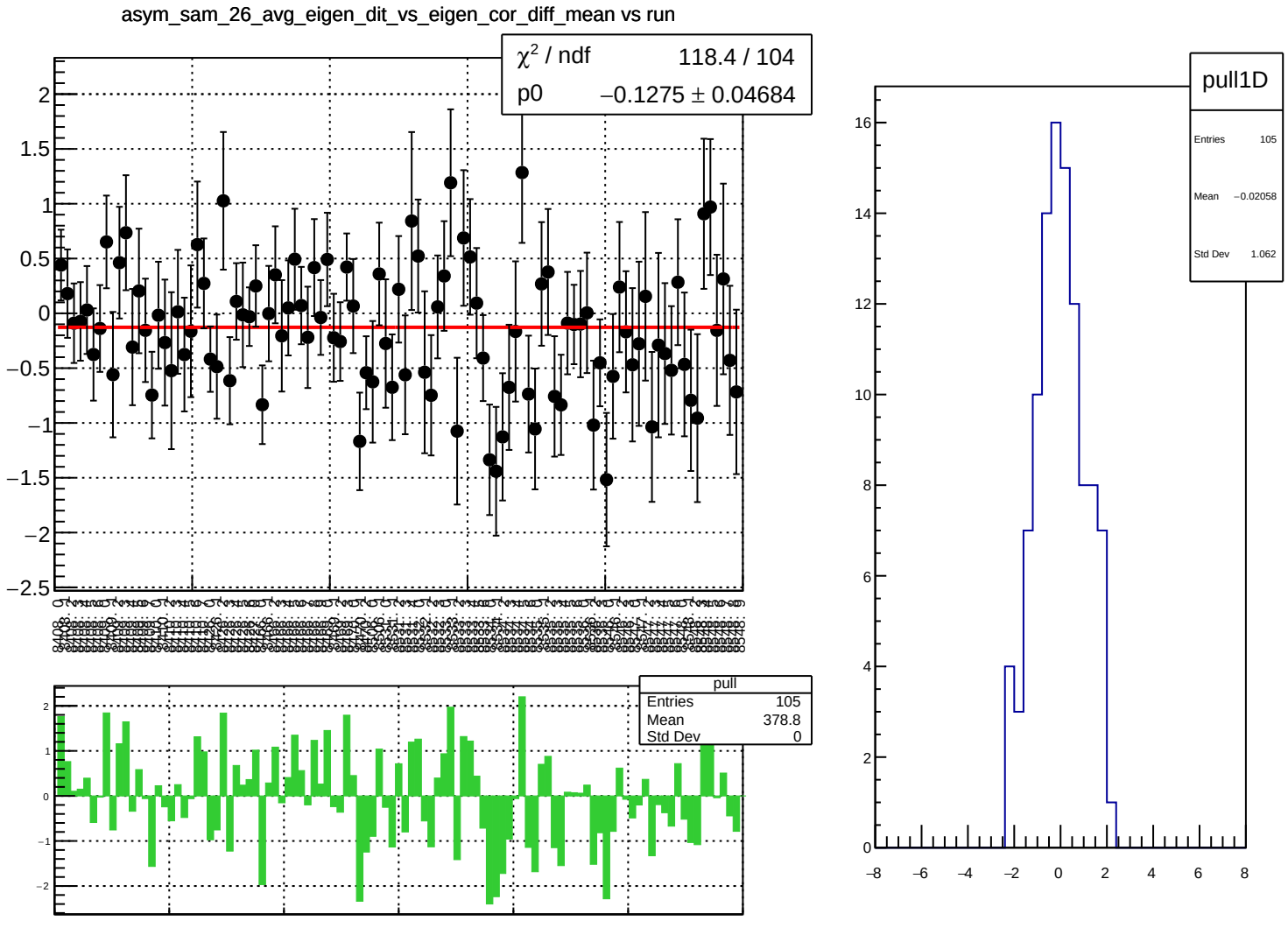

asym_sam_26_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.98e+04 / 104
p0 46.2 ± 0.03312
90
80
70
60
50
40
30

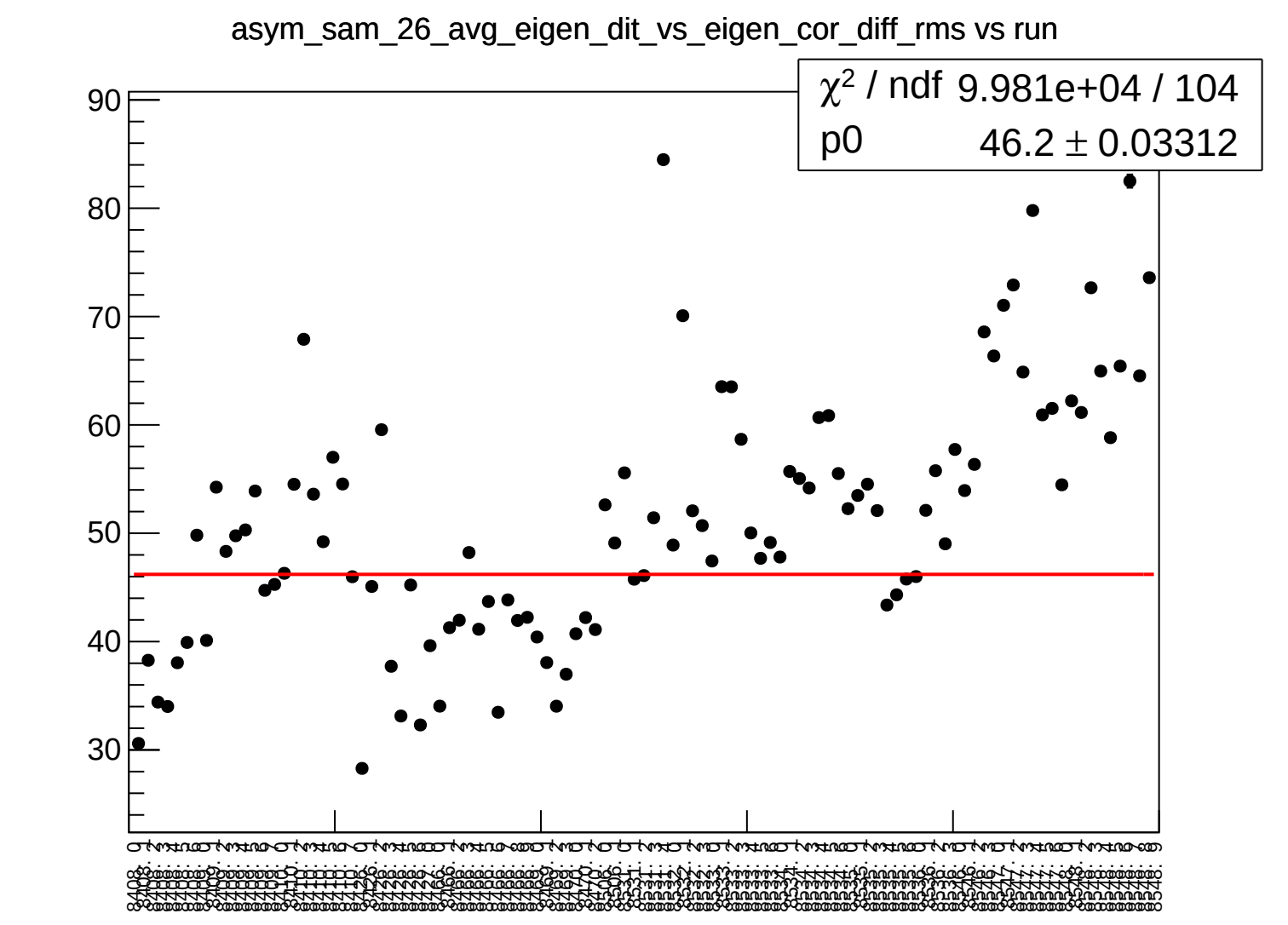

asym_sam_26_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 96.26 / 104
p0 2.352e−06 ± 1.908e−06
pull
Entries 105
Mean −51.37
Std Dev 0
pull1D
Entries 105
Mean 0.02032
Std Dev 0.9573

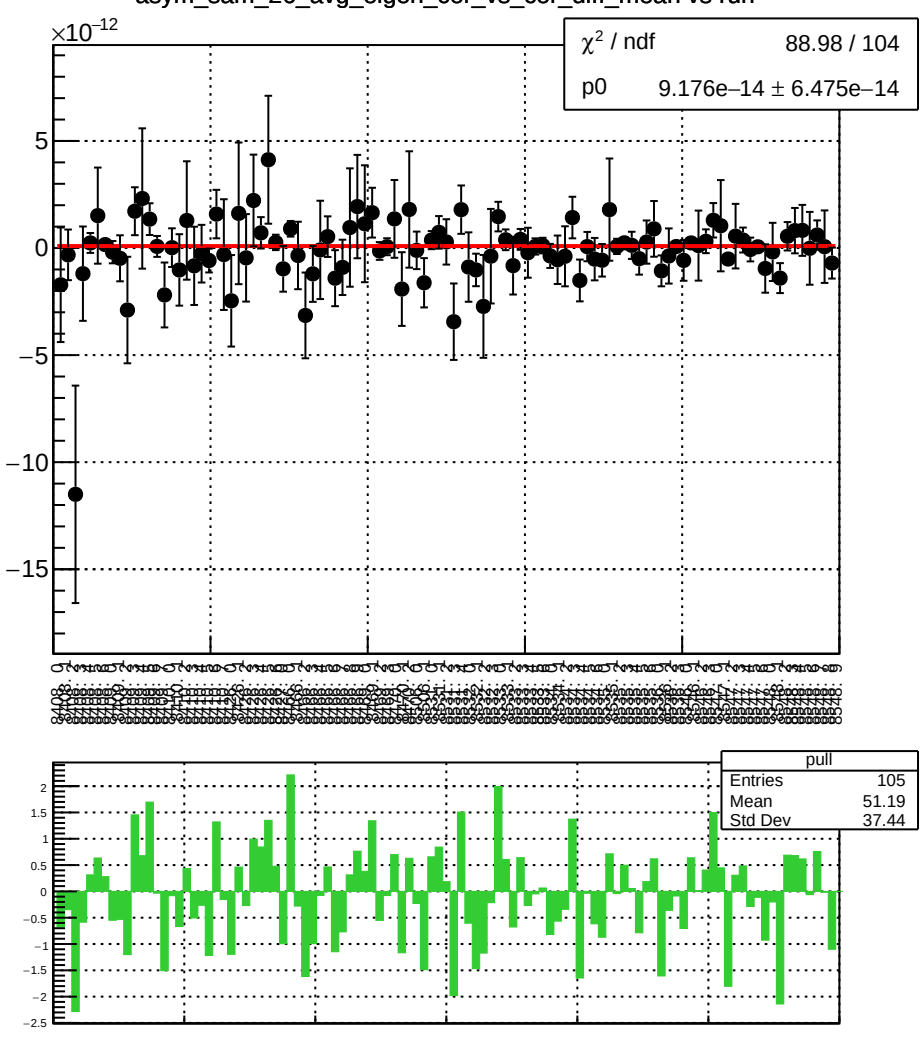

asym_sam_26_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.352e+05 / 104
p0 0.001545 ± 1.349e−06
0.007
0.006
0.005
0.004
0.003
0.002
0.001

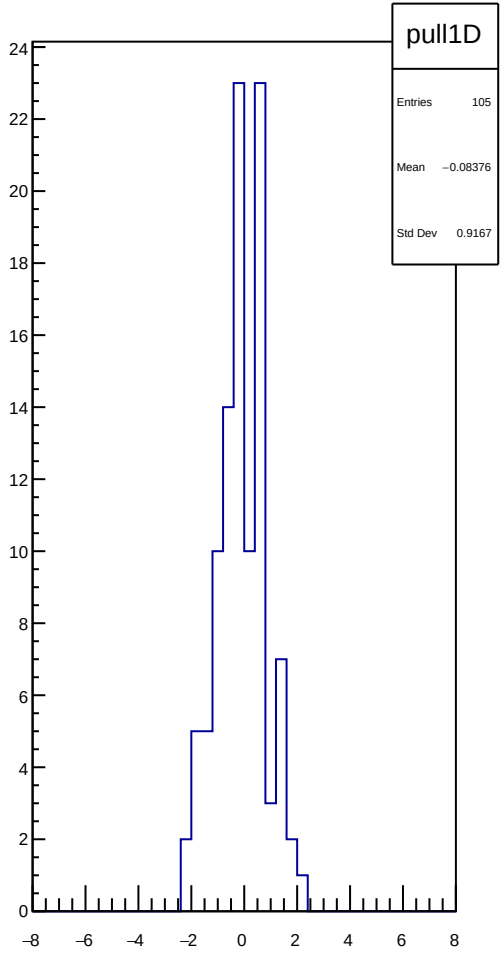

asym_sam_26_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 118.4 / 104
p0 −0.1275 ± 0.04684
pull
Entries 105
Mean 378.8
Std Dev 0
pull1D
Entries 105
Mean −0.02058
Std Dev 1.062

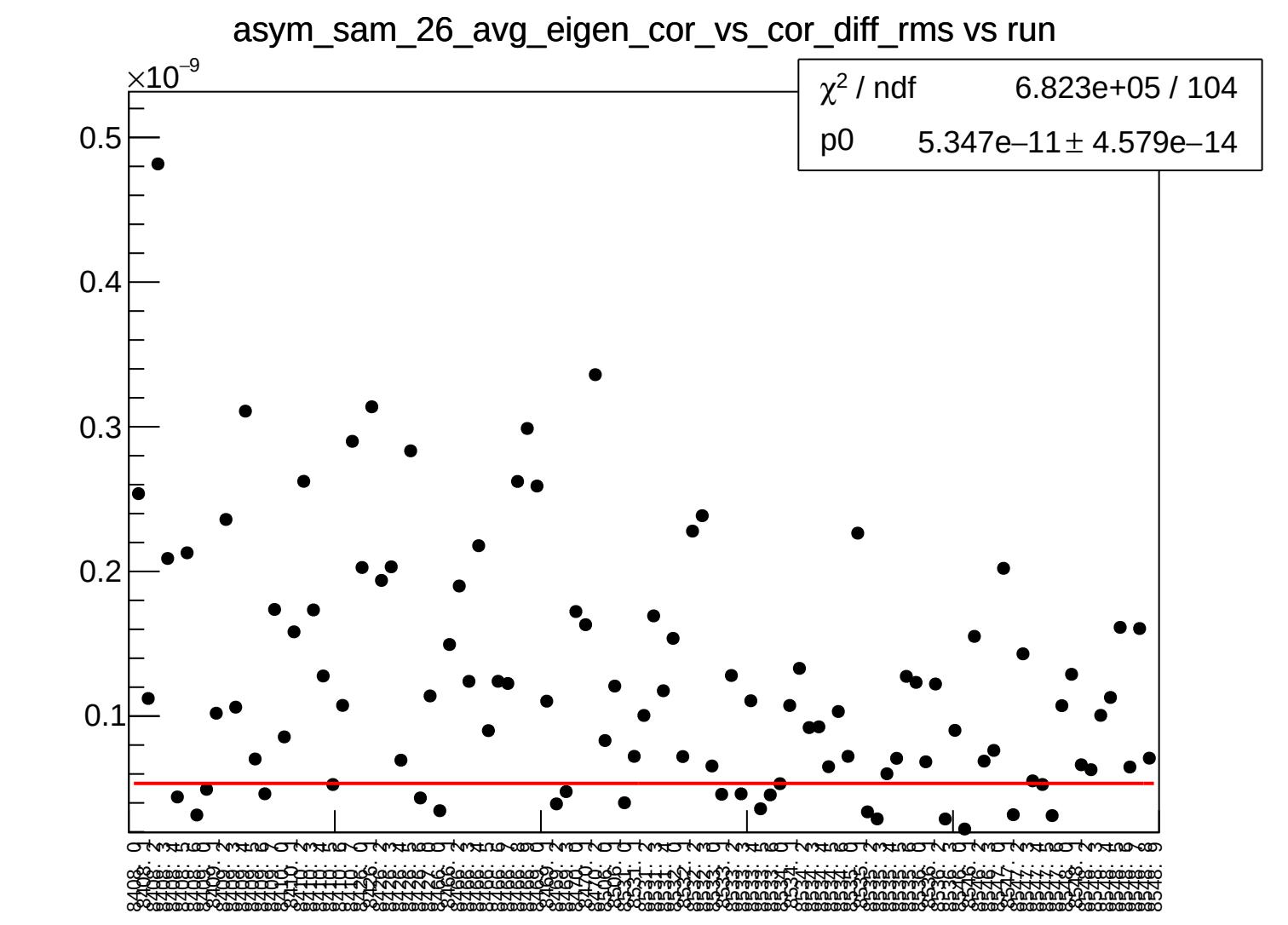

asym_sam_26_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.981e+04 / 104
p0 46.2 ± 0.03312
90
80
70
60
50
40
30

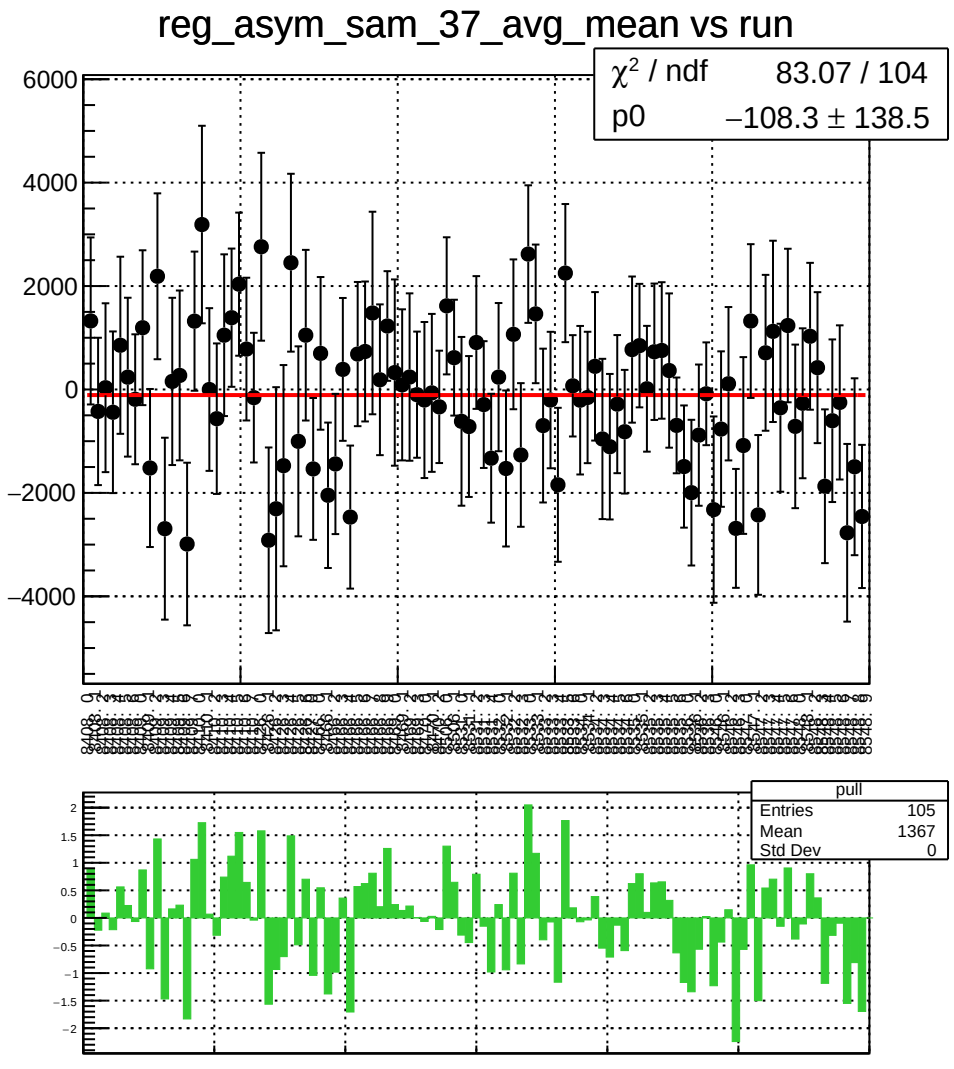

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 118.4 / 104
p0 −0.1275 ± 0.04684
pull
Entries 105
Mean 378.8
Std Dev 0
pull1D
Entries 105
Mean −0.02058
Std Dev 1.062

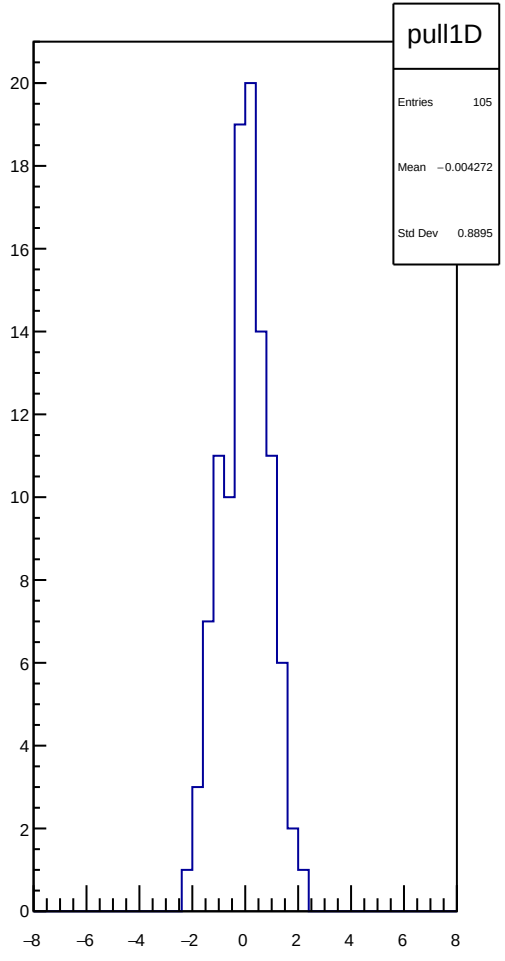

asym_sam_26_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.981e+04 / 104
p0 46.2 ± 0.03312
90
80
70
60
50
40
30

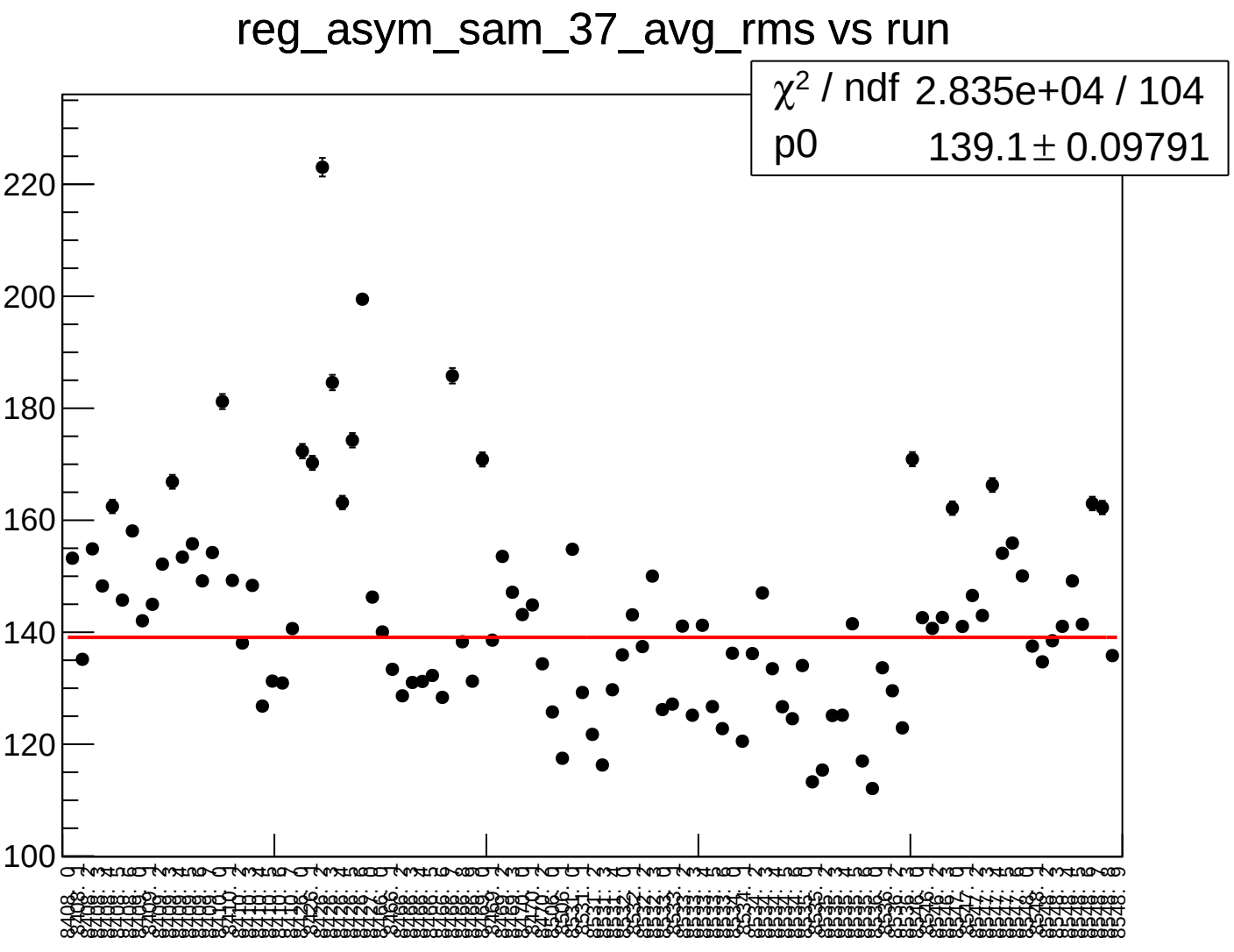

asym_sam_26_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 88.98 / 104
p0 9.176e−14 ± 6.475e−14
5
0
−5
−10
−15
pull
Entries 105
Mean 51.19
Std Dev 37.44
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

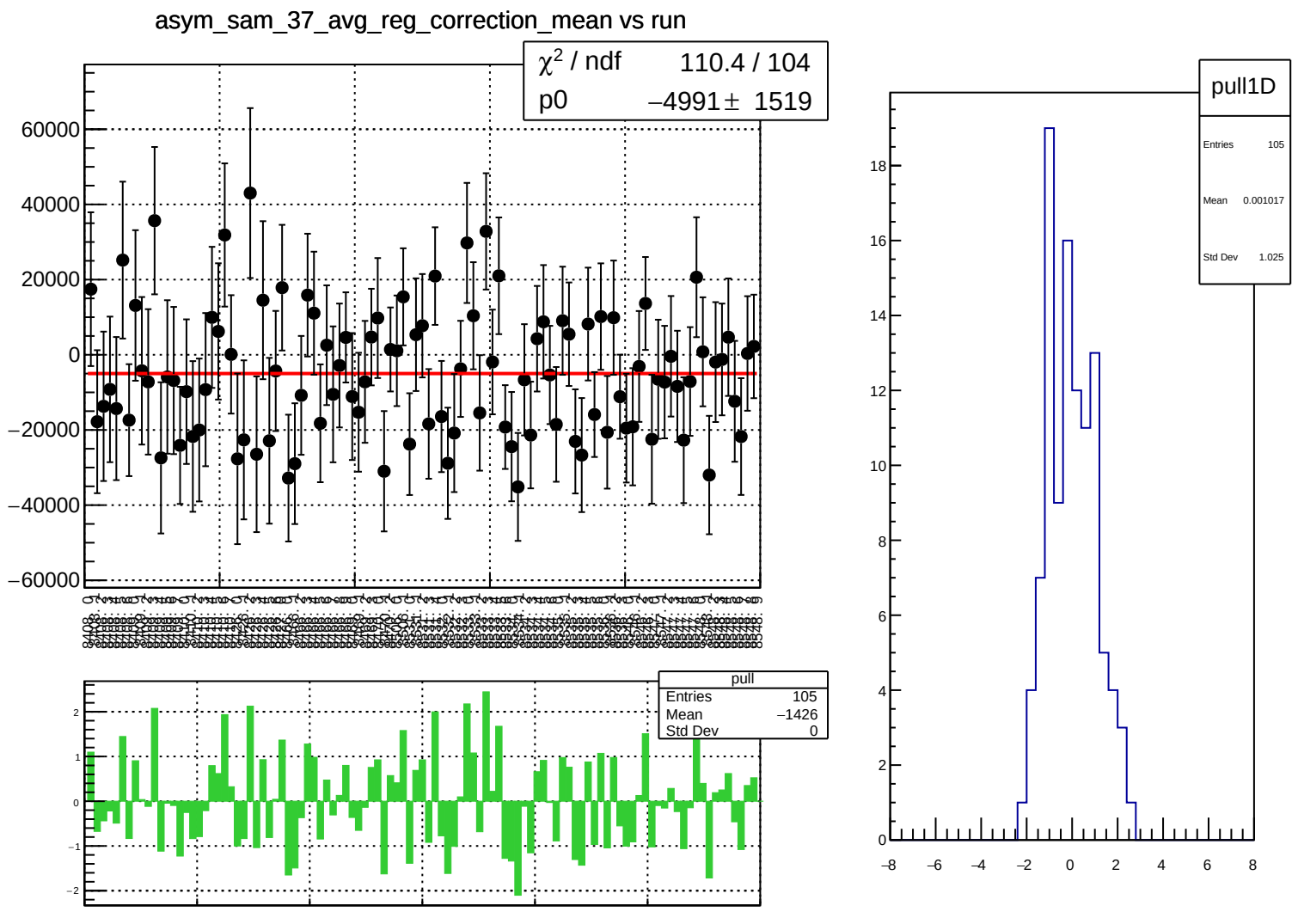

pull1D
Entries 105
Mean −0.08376
Std Dev 0.9167
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

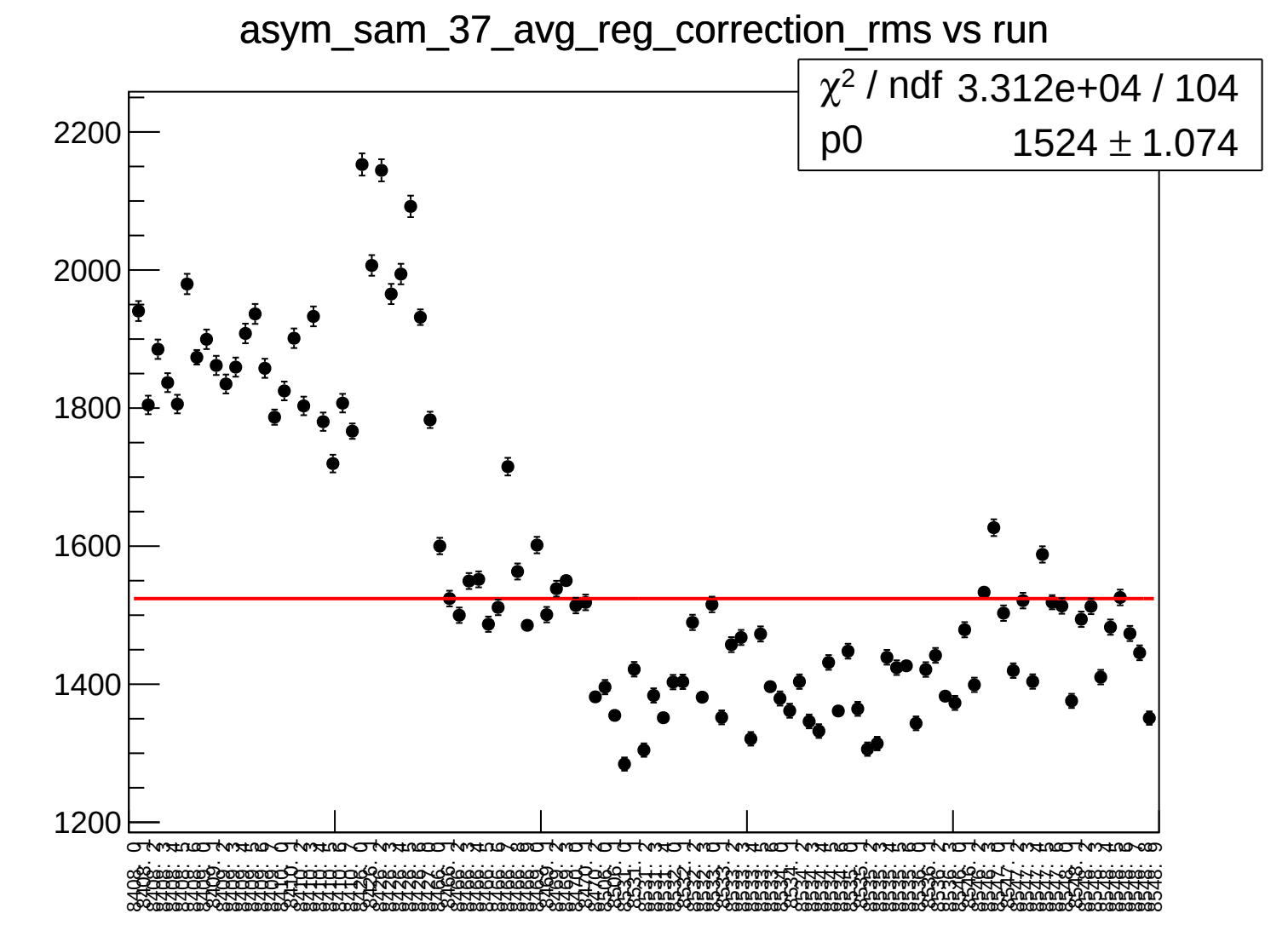

asym_sam_26_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.823e+05 / 104
p0 5.347e−11 ± 4.579e−14
0.5
0.4
0.3
0.2
0.1

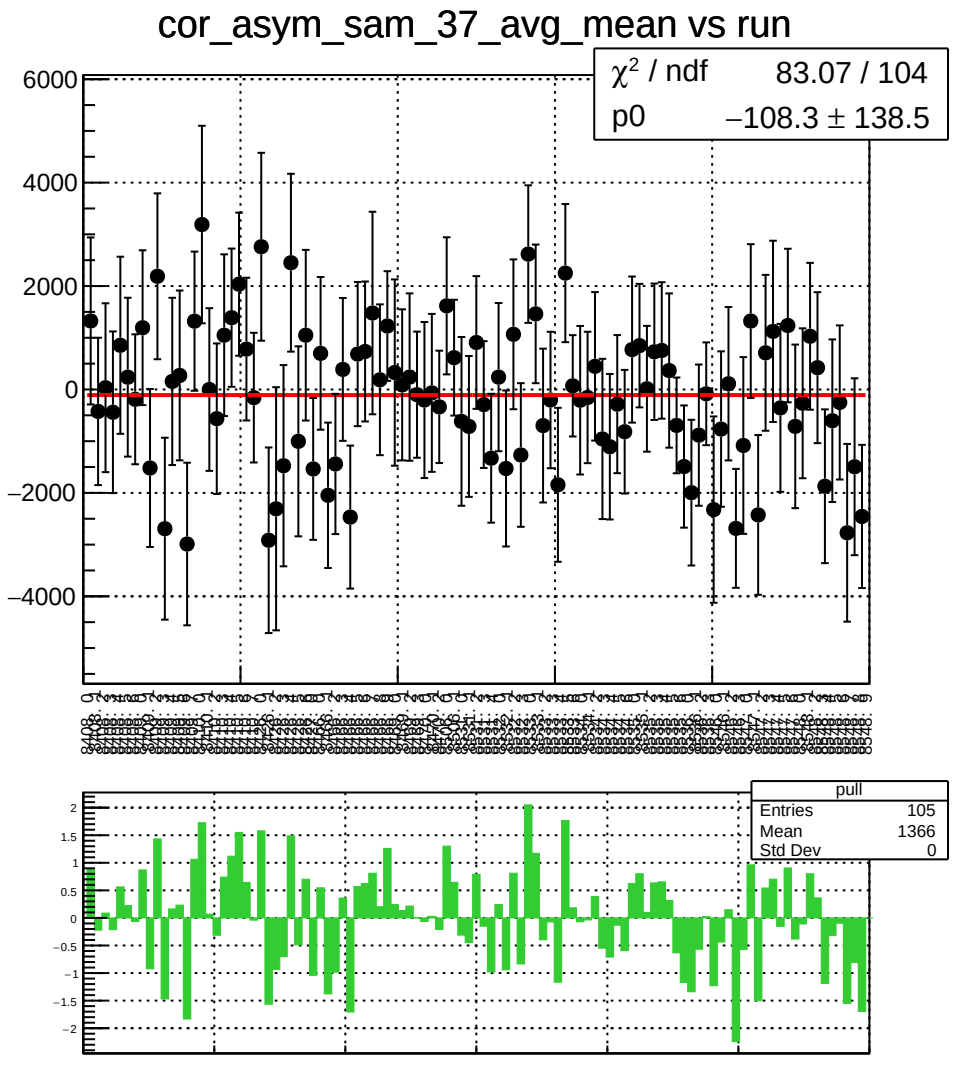

reg_asym_sam_37_avg_mean vs run
χ² / ndf 83.07 / 104
p0 −108.3 ± 138.5
6000
4000
2000
0
−2000
−4000
pull
Entries 105
Mean 1367
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

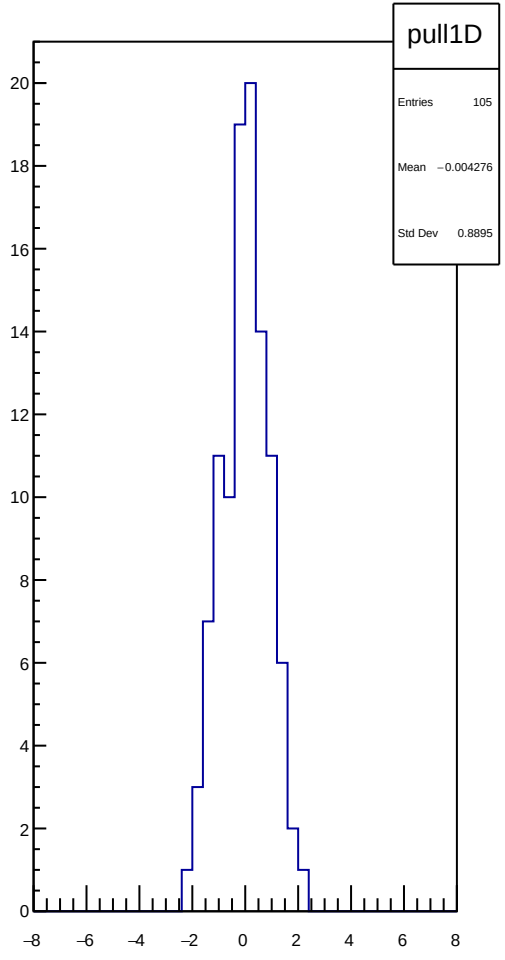

pull1D
Entries 105
Mean −0.004272
Std Dev 0.8895
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

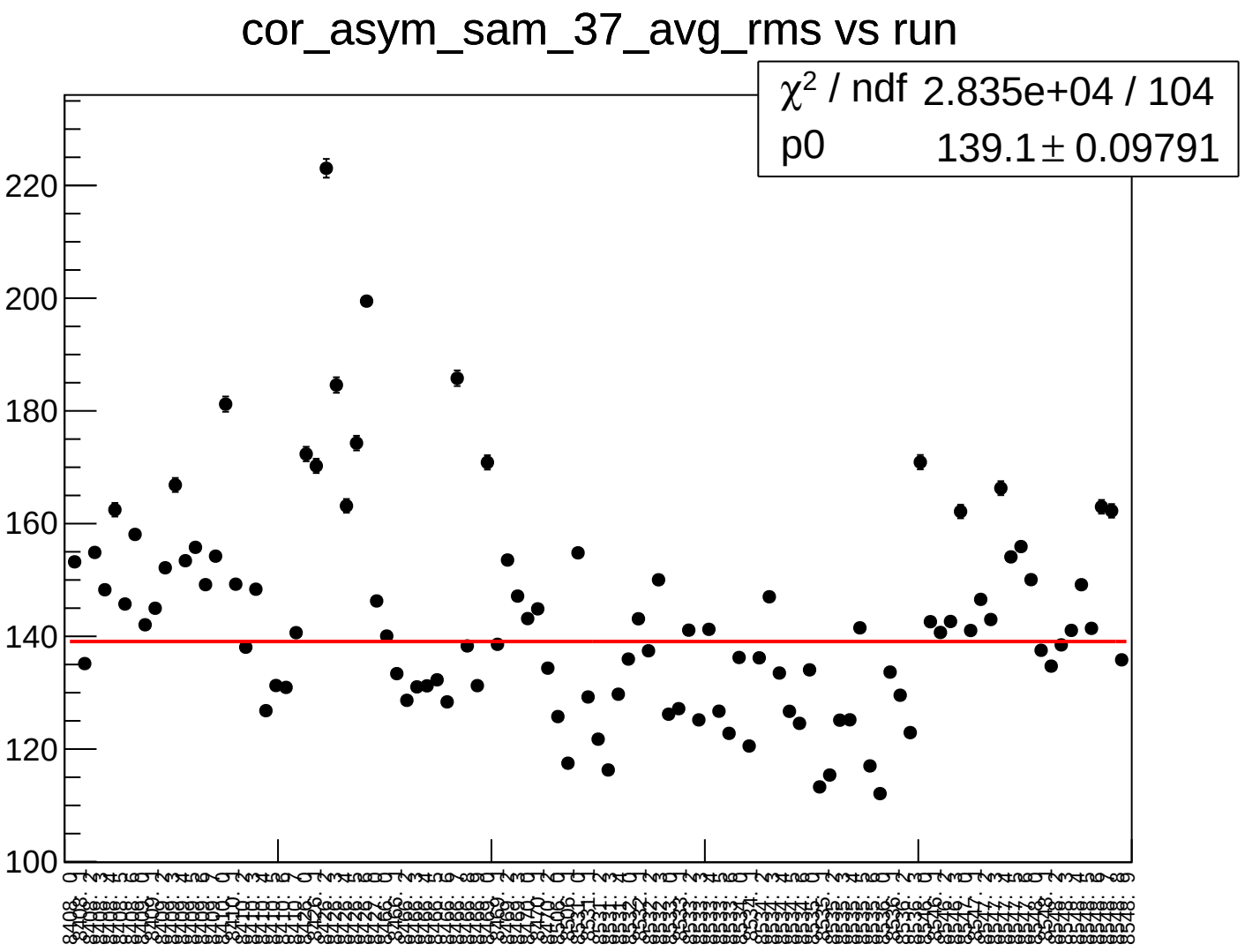

reg_asym_sam_37_avg_rms vs run
χ^2 / ndf 2.835e+04 / 104
p0 139.1 ± 0.09791
220
200
180
160
140
120
100

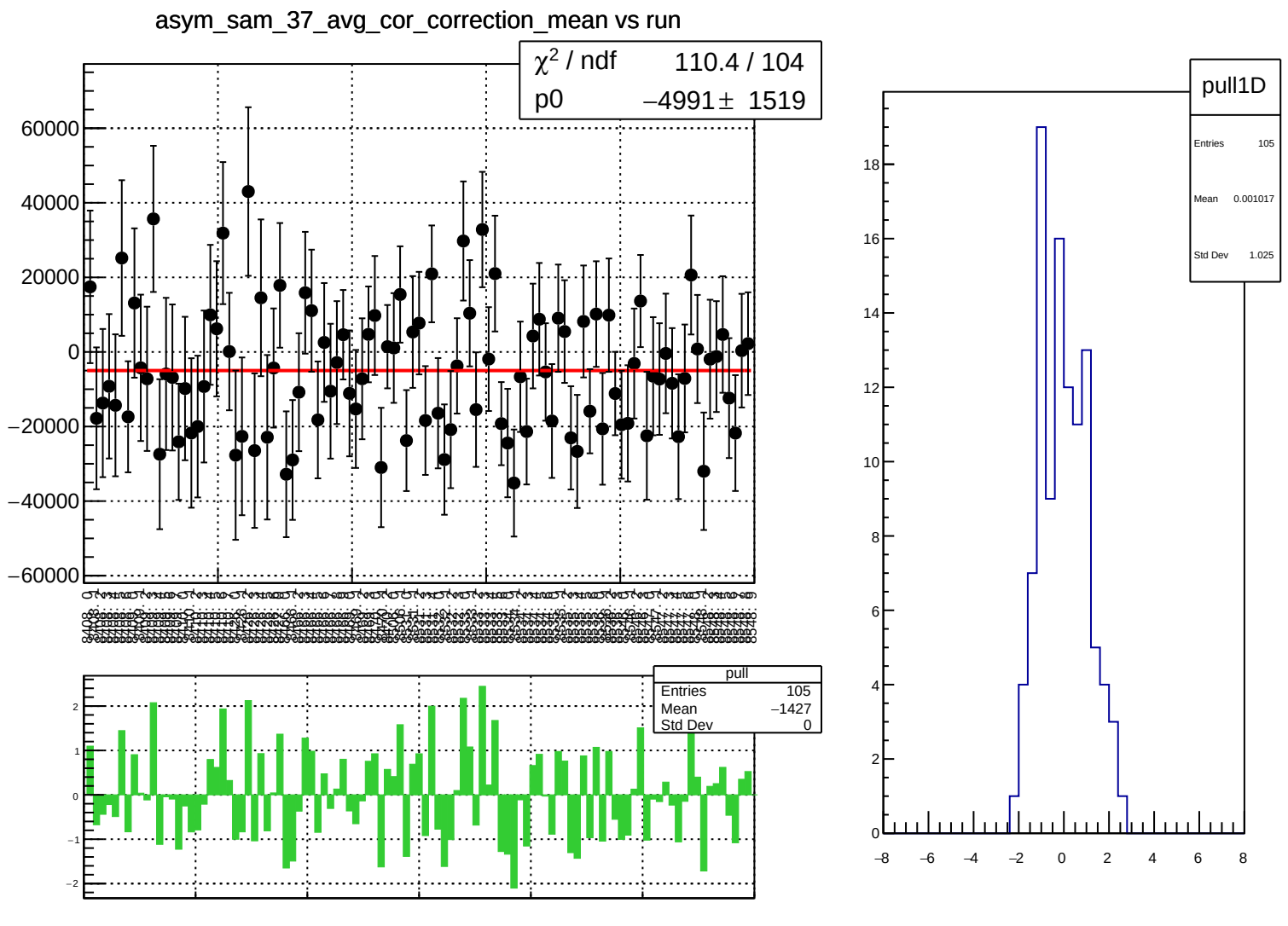

asym_sam_37_avg_reg_correction_mean vs run
χ² / ndf 110.4 / 104
p0 −4991 ± 1519
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean −1426
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.001017
Std Dev 1.025
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

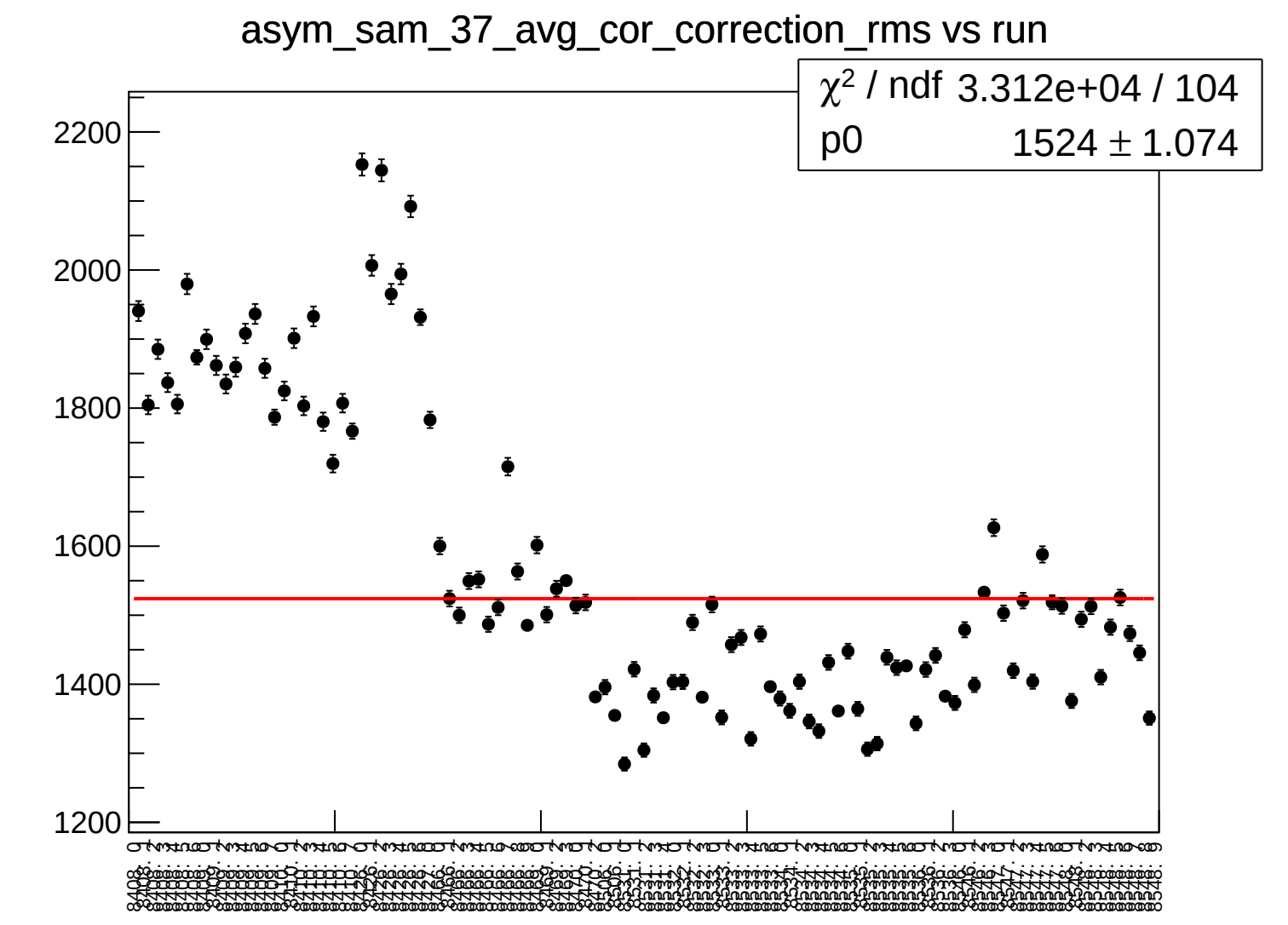

asym_sam_37_avg_reg_correction_rms vs run
χ² / ndf 3.312e+04 / 104
p0 1524 ± 1.074
2200
2000
1800
1600
1400
1200

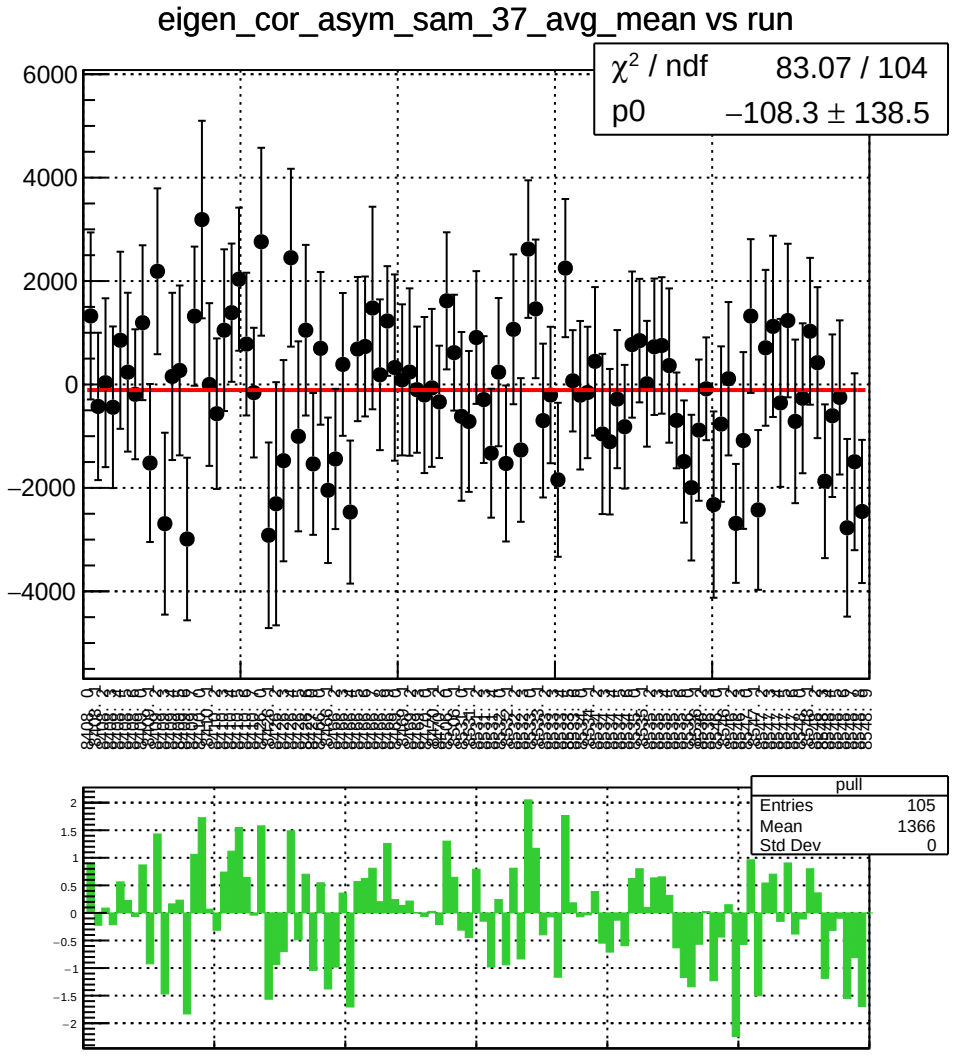

cor_asym_sam_37_avg_mean vs run
χ² / ndf 83.07 / 104
p0 −108.3 ± 138.5
6000
4000
2000
0
−2000
−4000
pull
Entries 105
Mean 1366
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

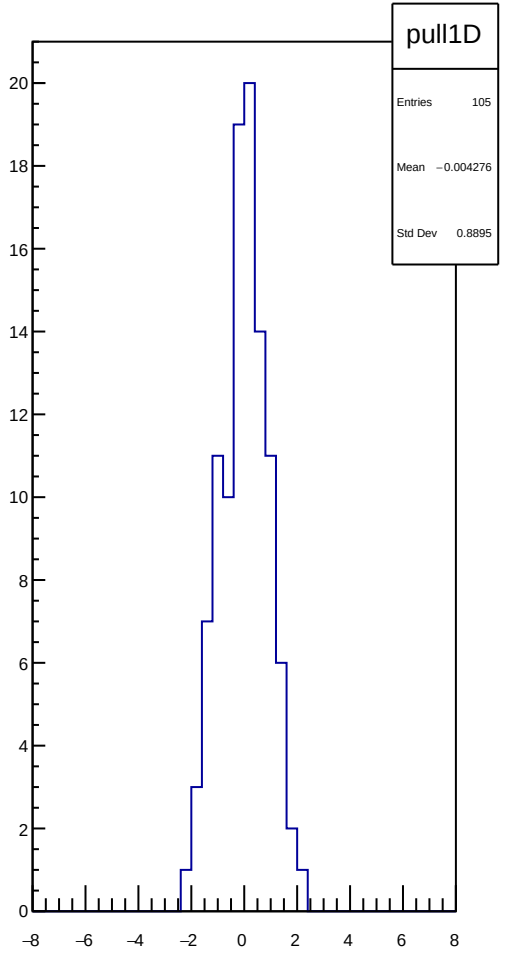

pull1D
Entries 105
Mean −0.004276
Std Dev 0.8895
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

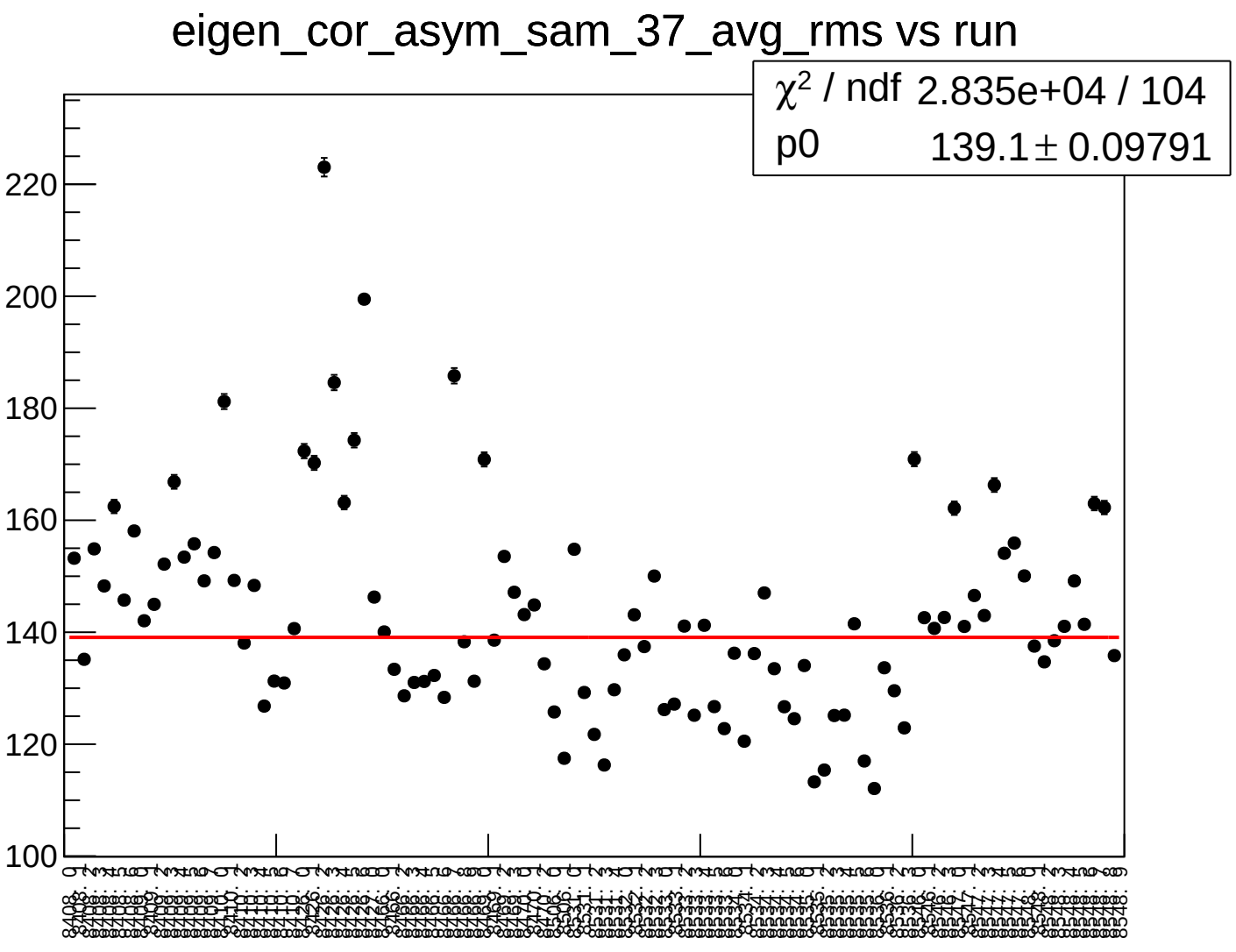

cor_asym_sam_37_avg_rms vs run
χ^2 / ndf 2.835e+04 / 104
p0 139.1 ± 0.09791
220
200
180
160
140
120
100

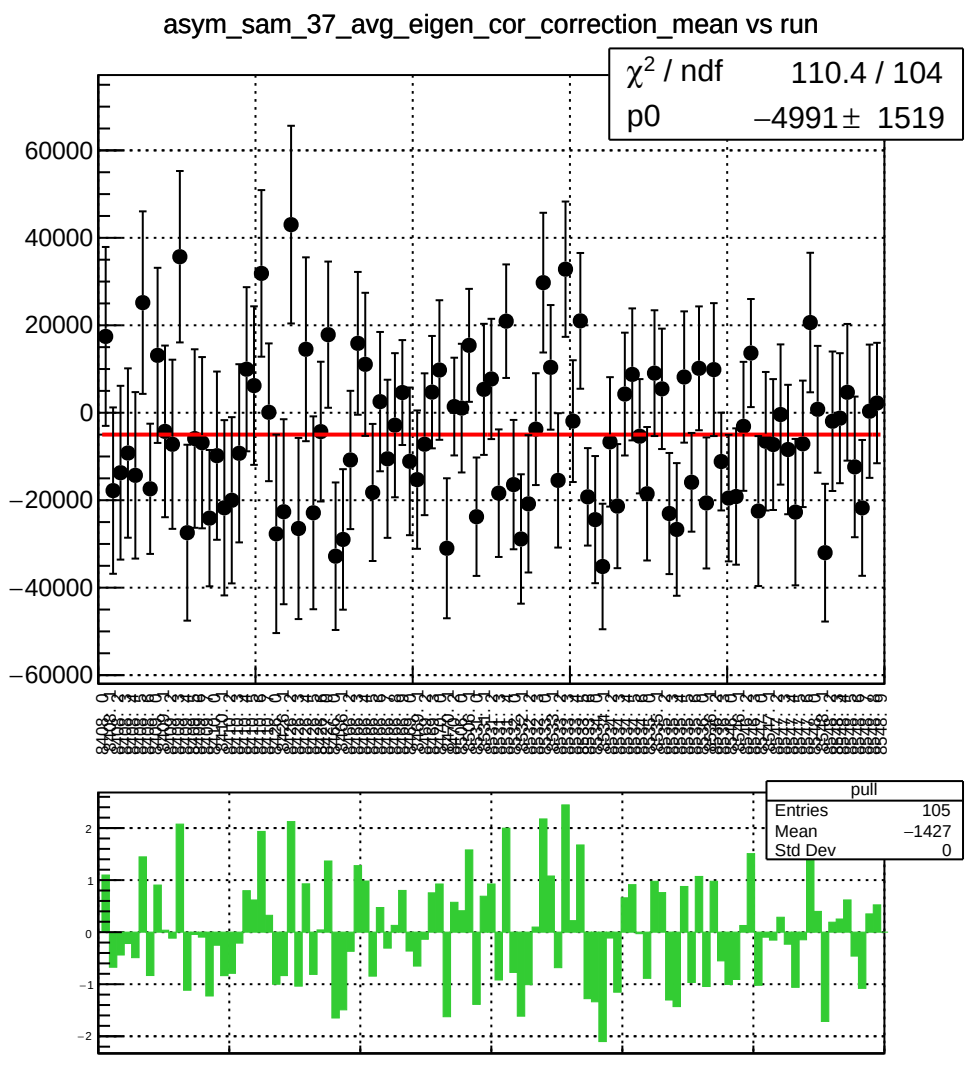

asym_sam_37_avg_cor_correction_mean vs run
χ² / ndf 110.4 / 104
p0 −4991 ± 1519
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean −1427
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.001017
Std Dev 1.025
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

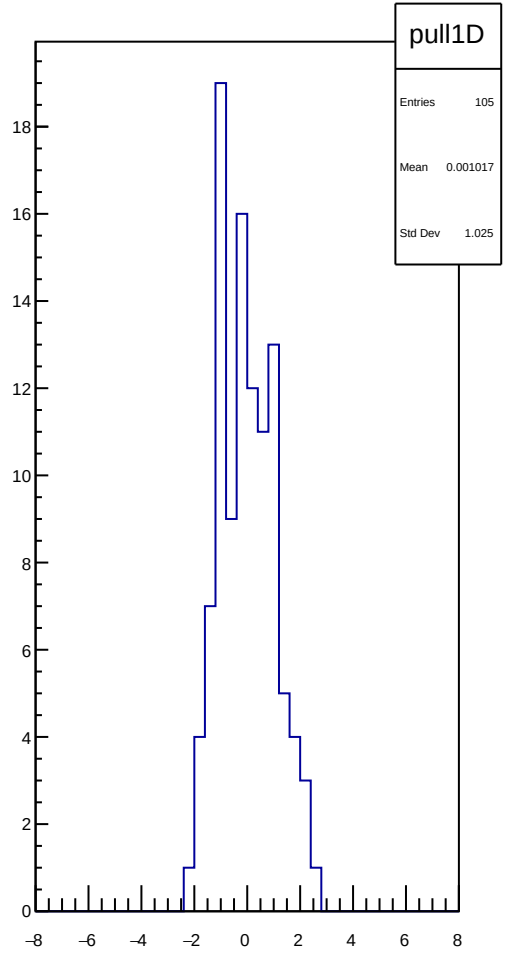

asym_sam_37_avg_cor_correction_rms vs run
χ² / ndf 3.312e+04 / 104
p0 1524 ± 1.074
2200
2000
1800
1600
1400
1200

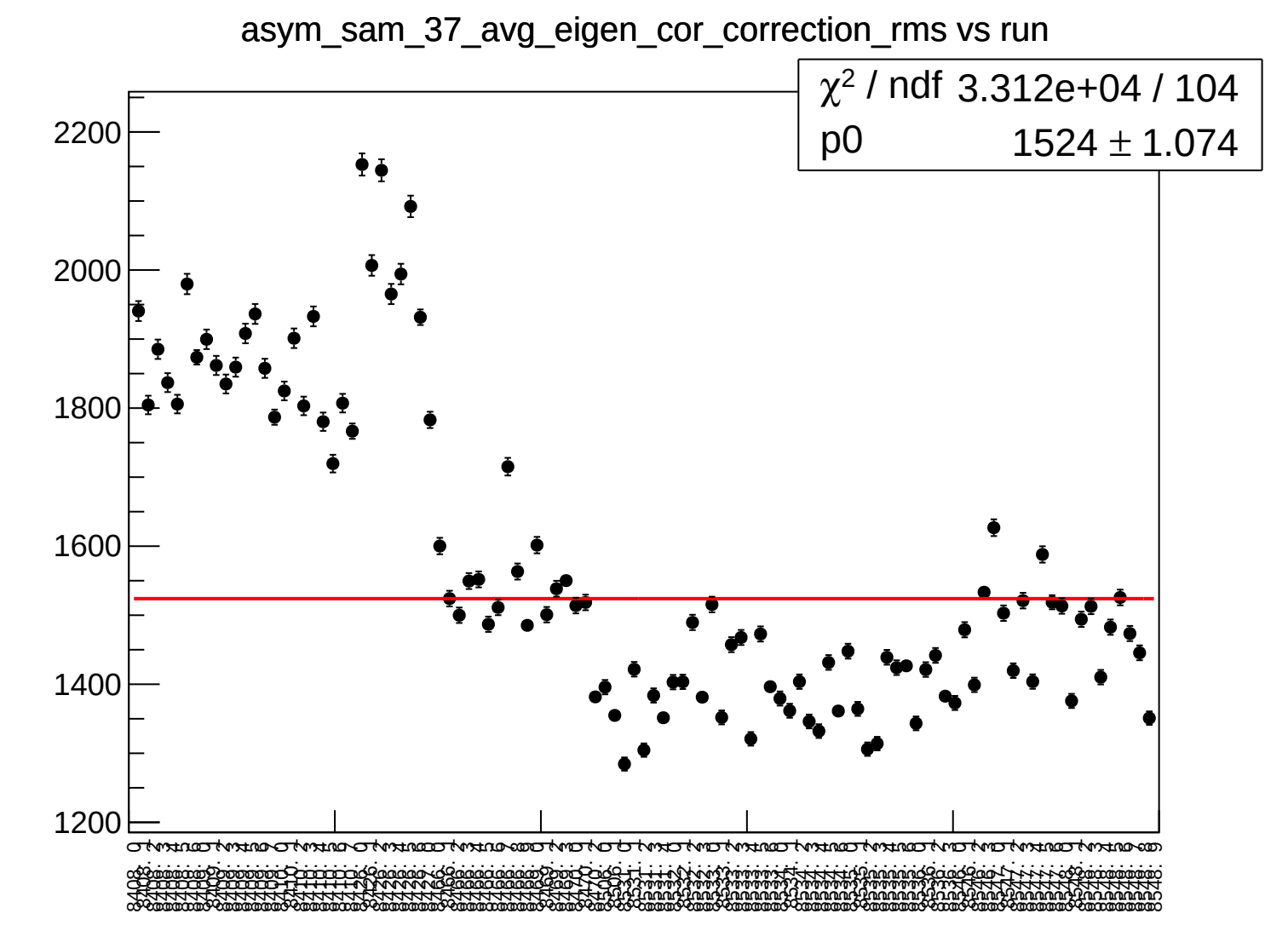

eigen_cor_asym_sam_37_avg_mean vs run
χ² / ndf 83.07 / 104
p0 −108.3 ± 138.5
6000
4000
2000
0
−2000
−4000
pull
Entries 105
Mean 1366
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

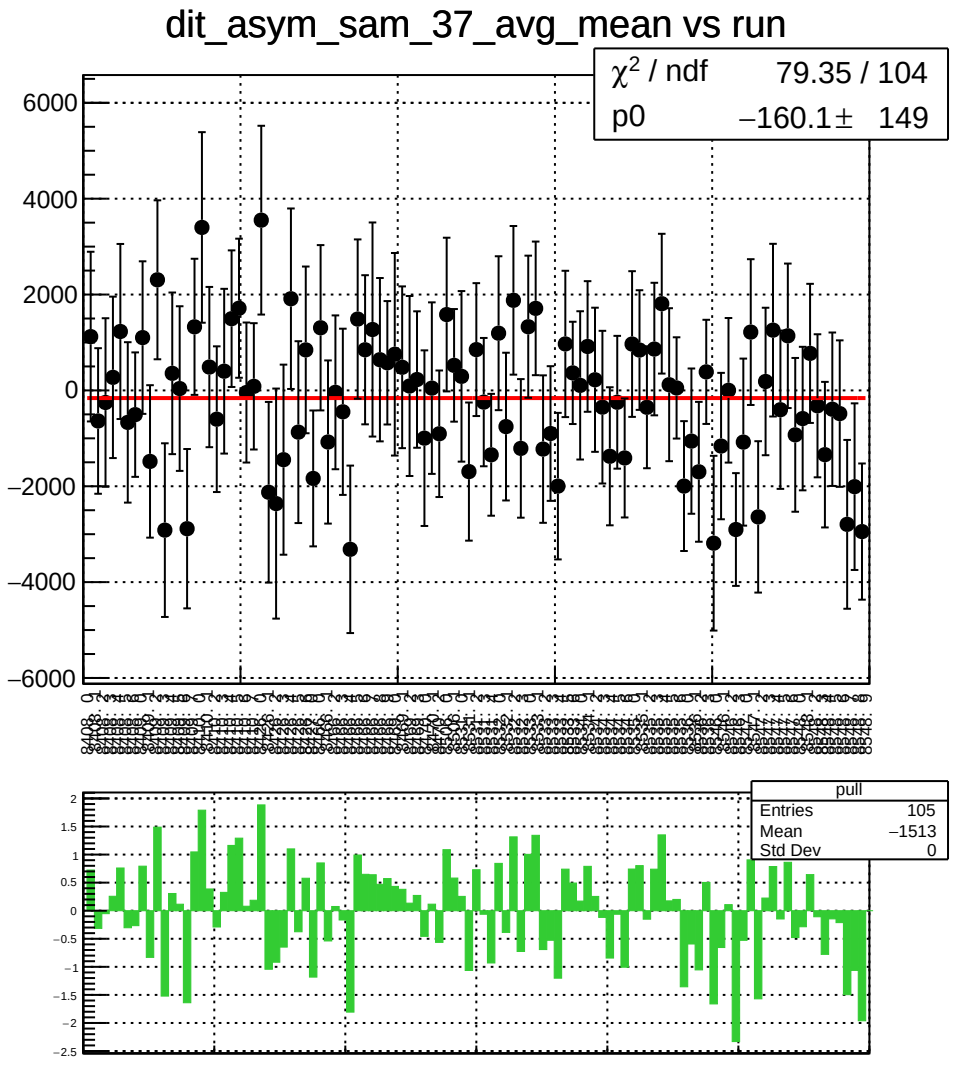

pull1D
Entries 105
Mean −0.004276
Std Dev 0.8895
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

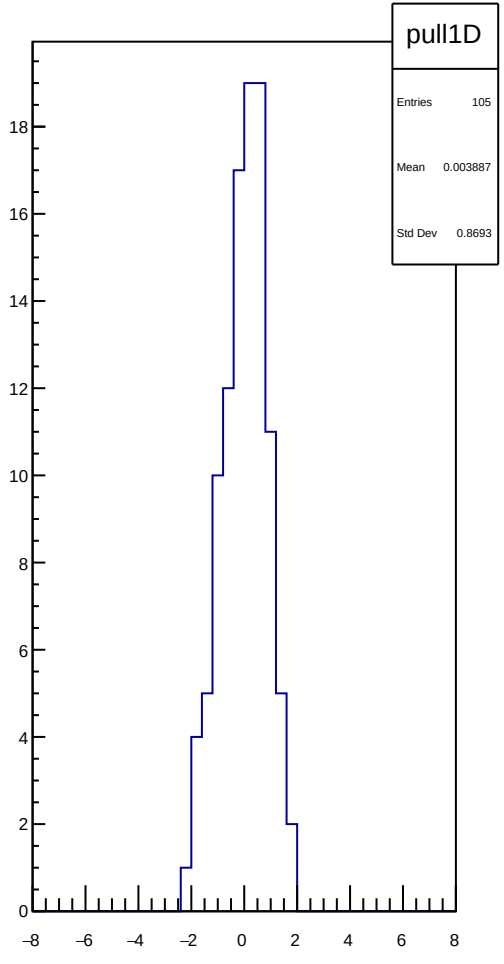

eigen_cor_asym_sam_37_avg_rms vs run
χ^2 / ndf 2.835e+04 / 104
p0 139.1 ± 0.09791
220
200
180
160
140
120
100

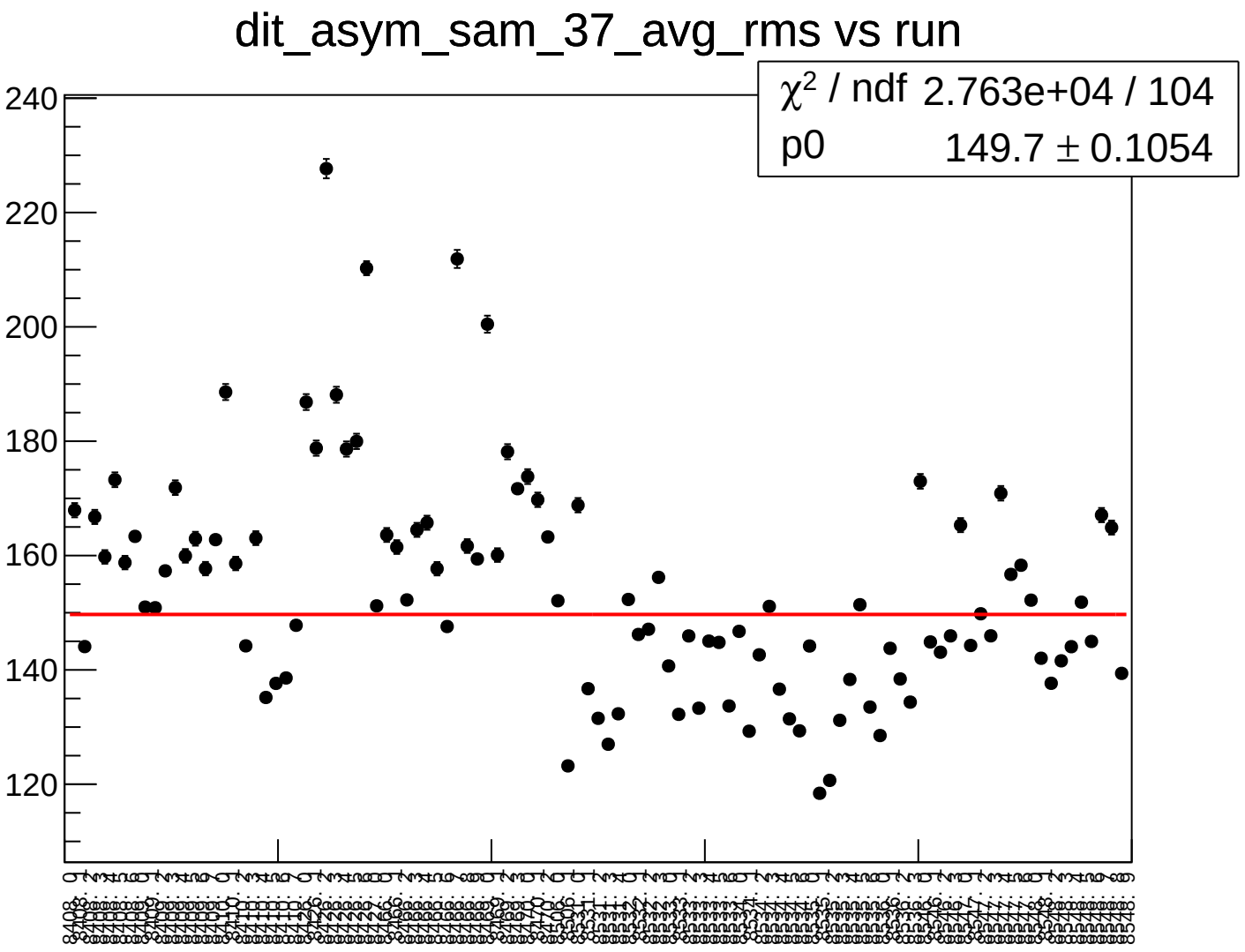

asym_sam_37_avg_eigen_cor_correction_mean vs run
χ² / ndf 110.4 / 104
p0 −4991 ± 1519
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean −1427
Std Dev 0
2
1
0
−1
−2

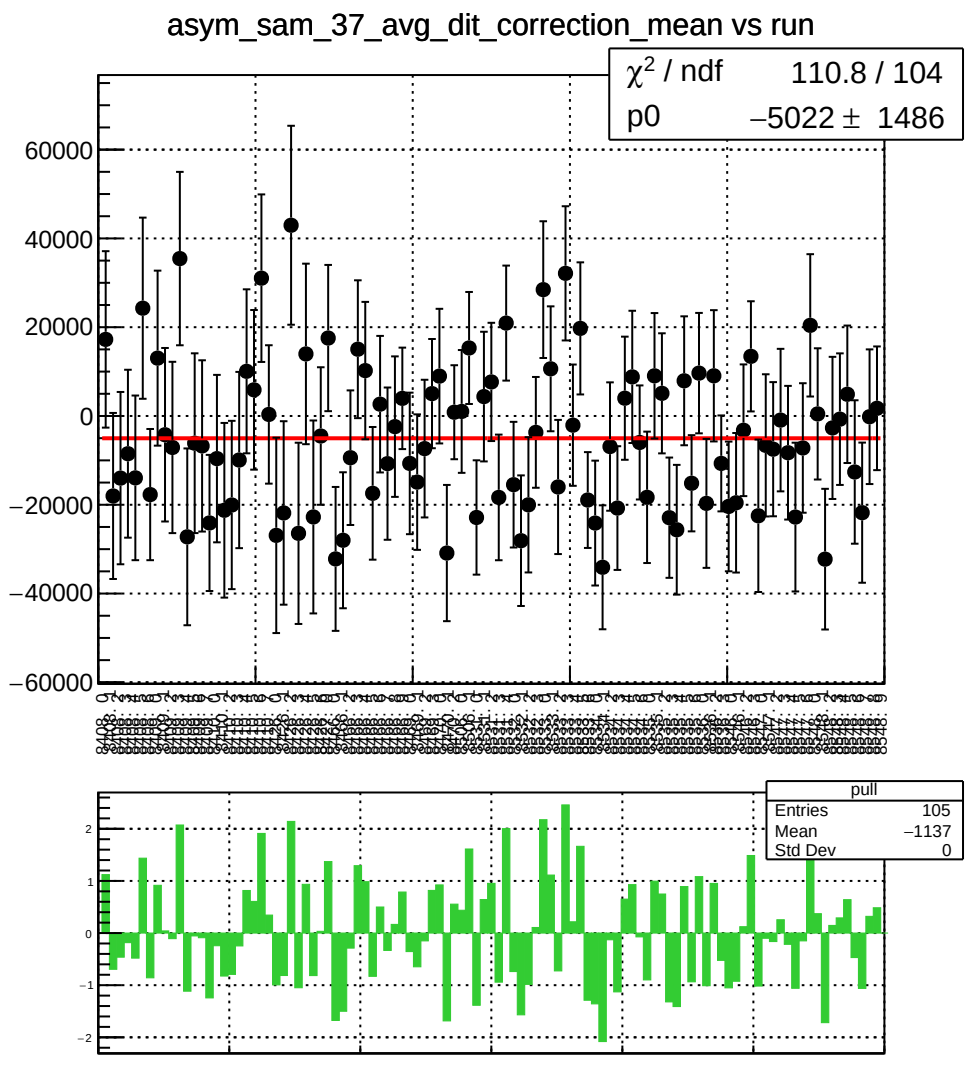

pull1D
Entries 105
Mean 0.001017
Std Dev 1.025
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

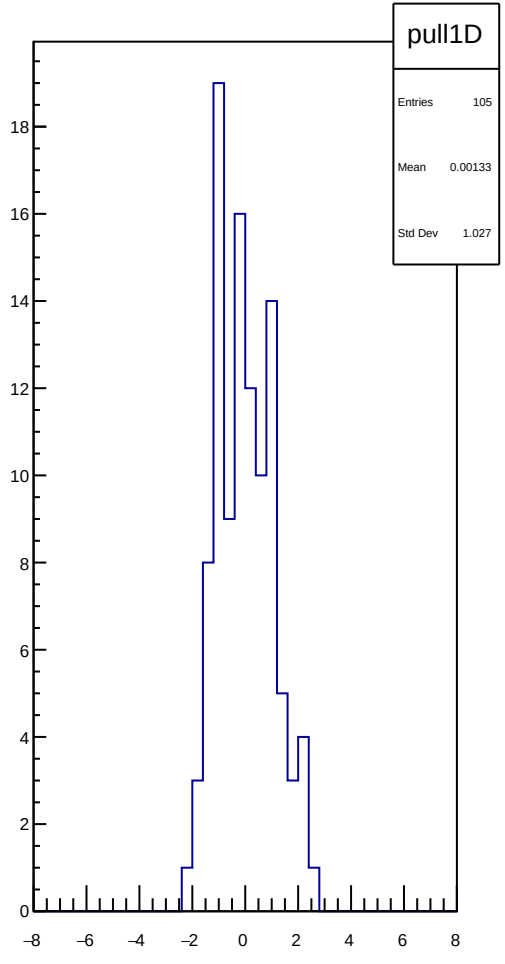

asym_sam_37_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.312e+04 / 104
p0 1524 ± 1.074
2200
2000
1800
1600
1400
1200

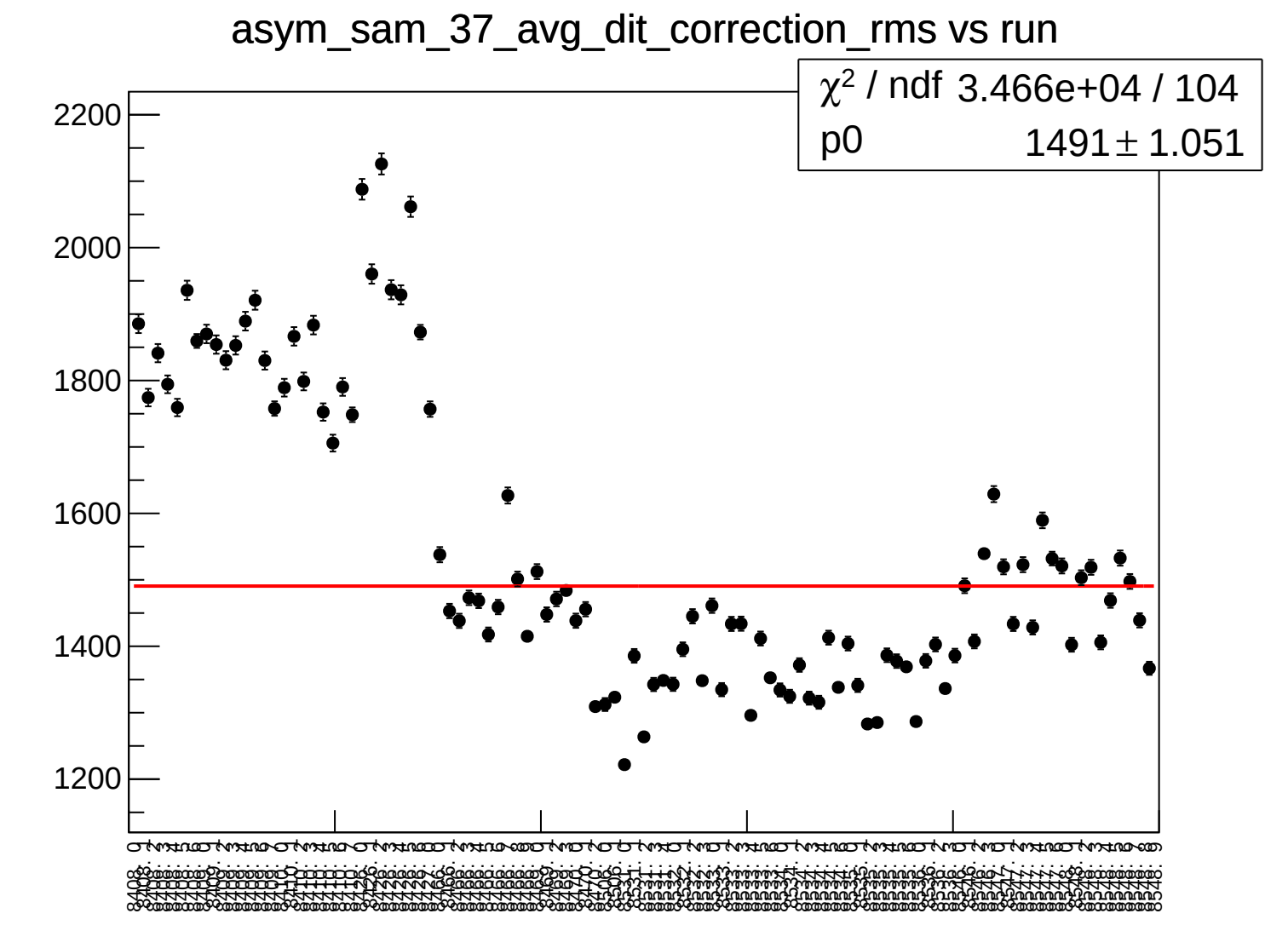

dit_asym_sam_37_avg_mean vs run
χ² / ndf 79.35 / 104
p0 −160.1± 149
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 105
Mean −1513
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

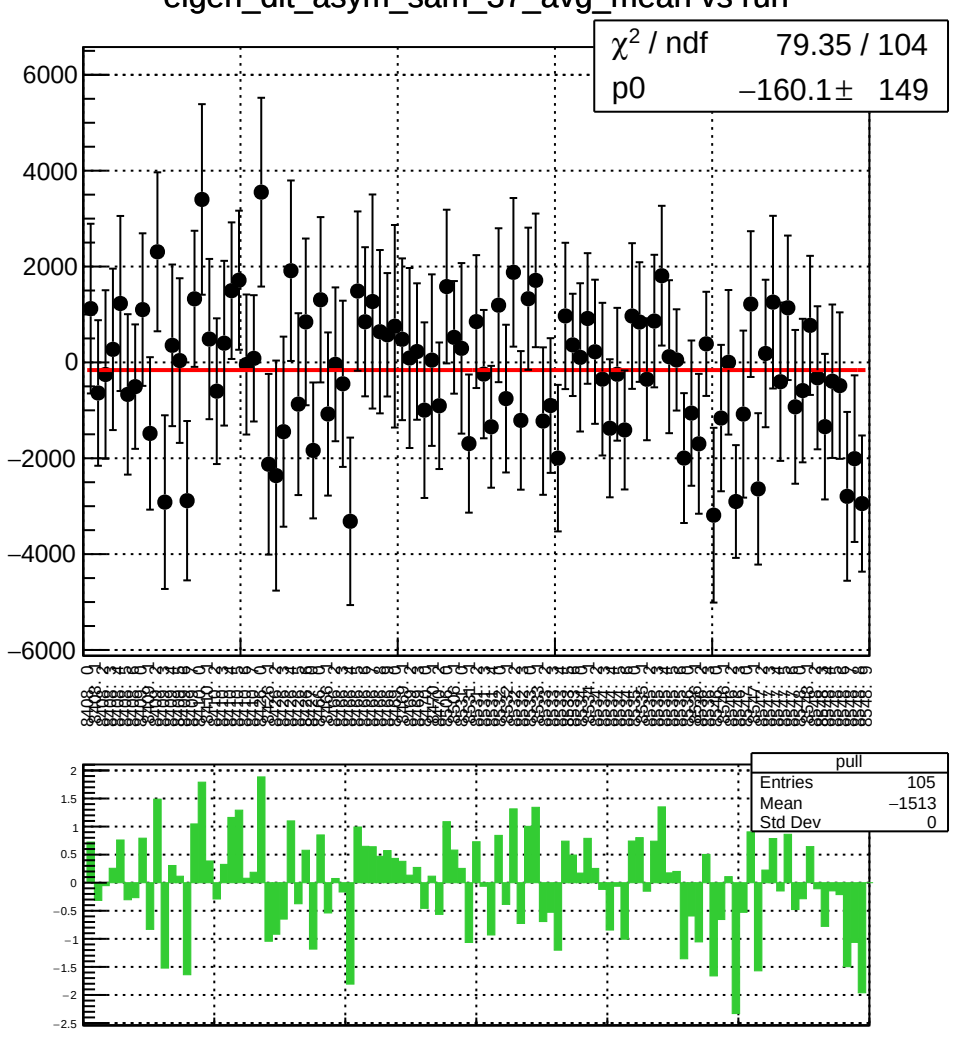

pull1D
Entries 105
Mean 0.003887
Std Dev 0.8693
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

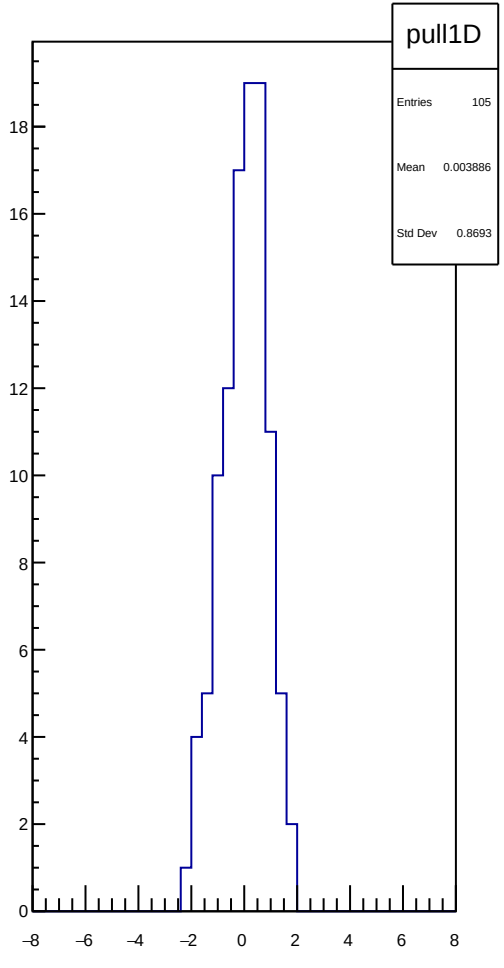

dit_asym_sam_37_avg_rms vs run
χ^2 / ndf 2.763e+04 / 104
p0 149.7 ± 0.1054
240
220
200
180
160
140
120

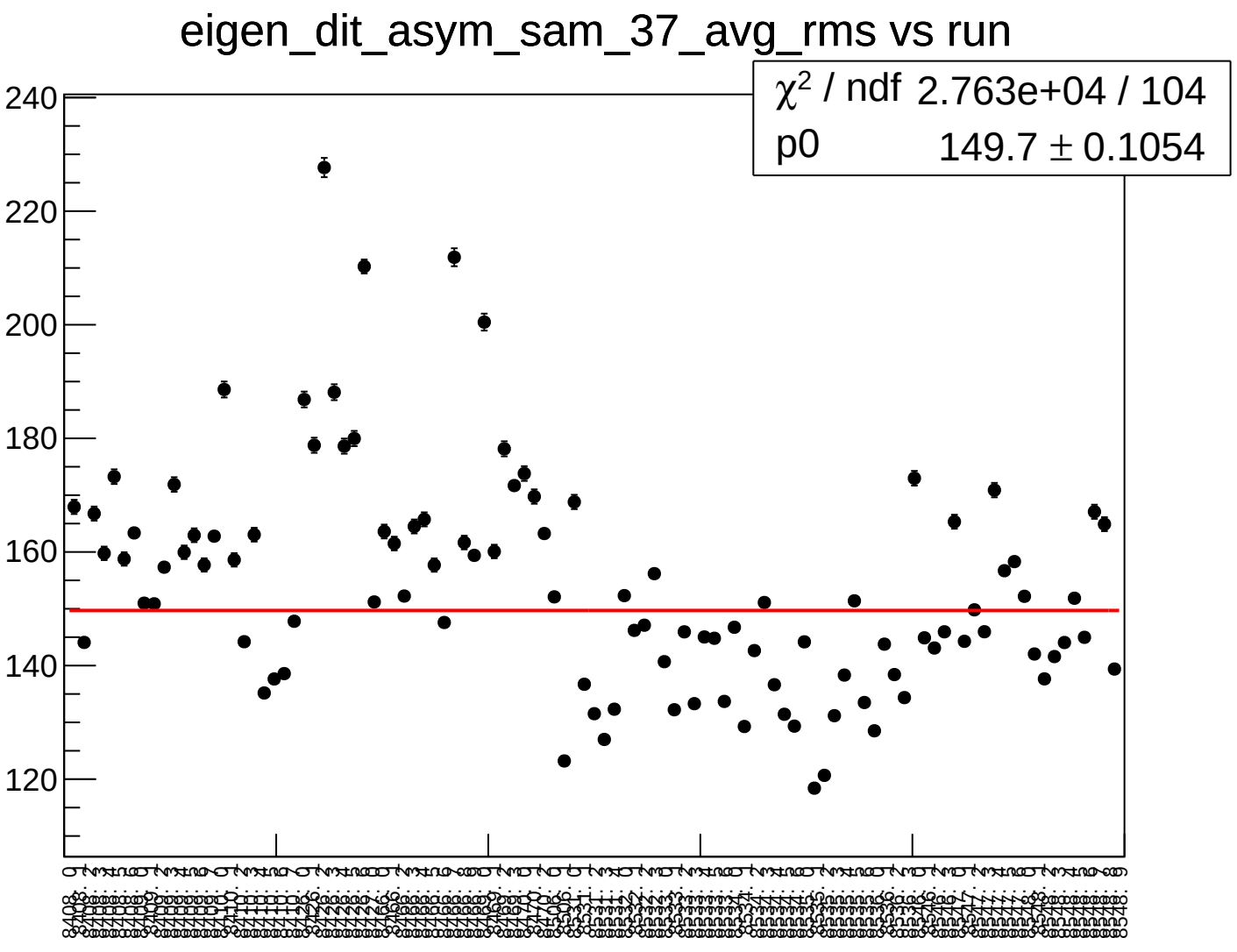

asym_sam_37_avg_dit_correction_mean vs run
χ² / ndf 110.8 / 104
p0 −5022 ± 1486
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean −1137
Std Dev 0
2
1
0
−1
−2

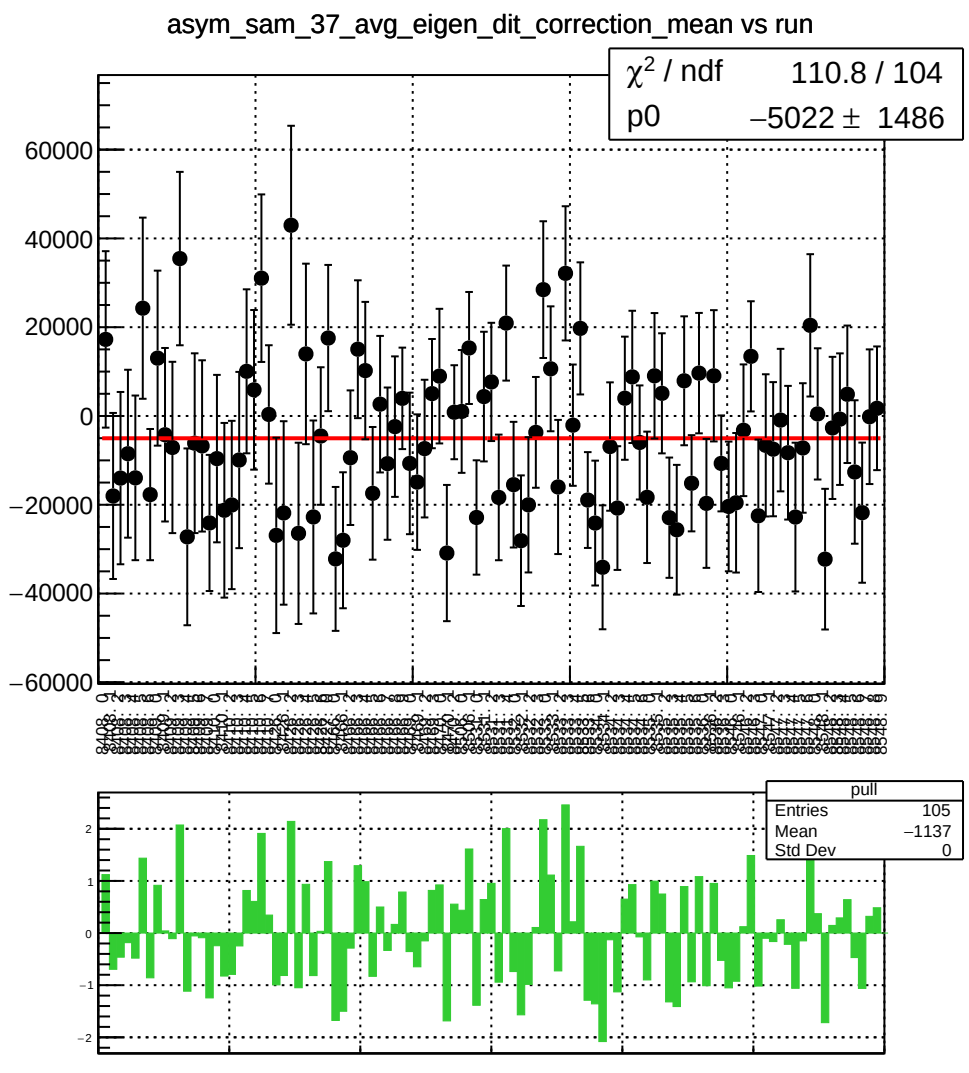

pull1D
Entries 105
Mean 0.00133
Std Dev 1.027
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

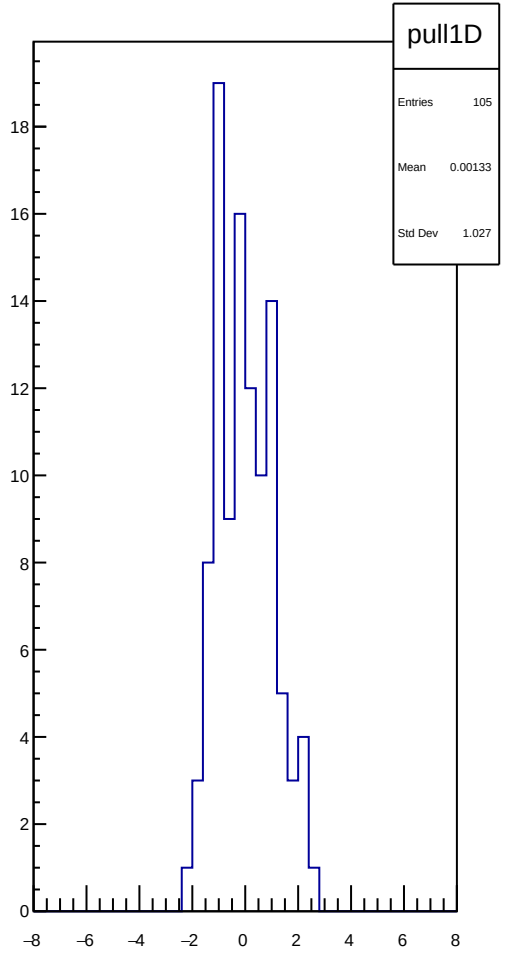

asym_sam_37_avg_dit_correction_rms vs run
χ² / ndf 3.466e+04 / 104
p0 1491 ± 1.051
2200
2000
1800
1600
1400
1200

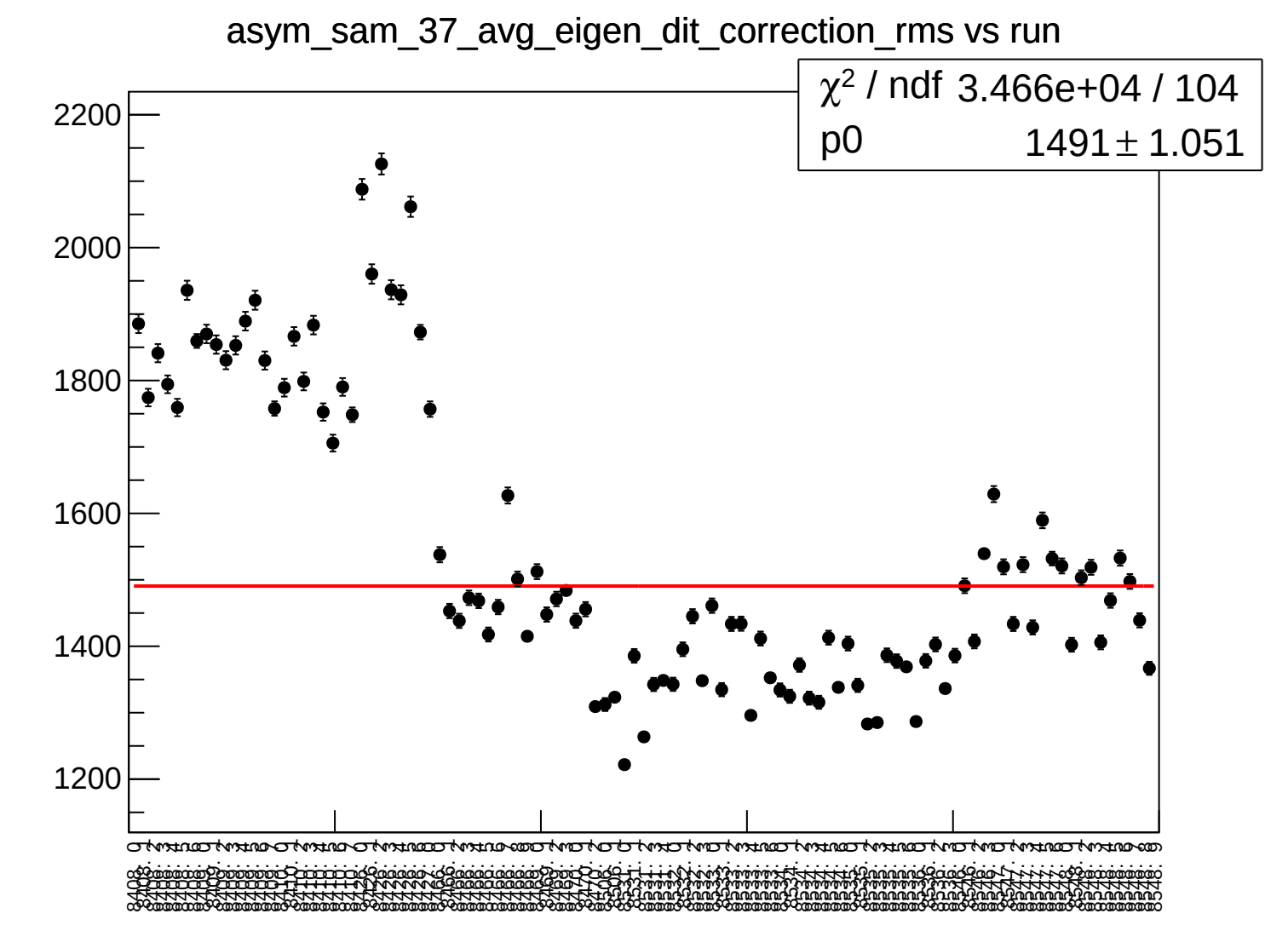

eigen_dit_asym_sam_37_avg_mean vs run
χ² / ndf 79.35 / 104
p0 −160.1± 149
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 105
Mean −1513
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

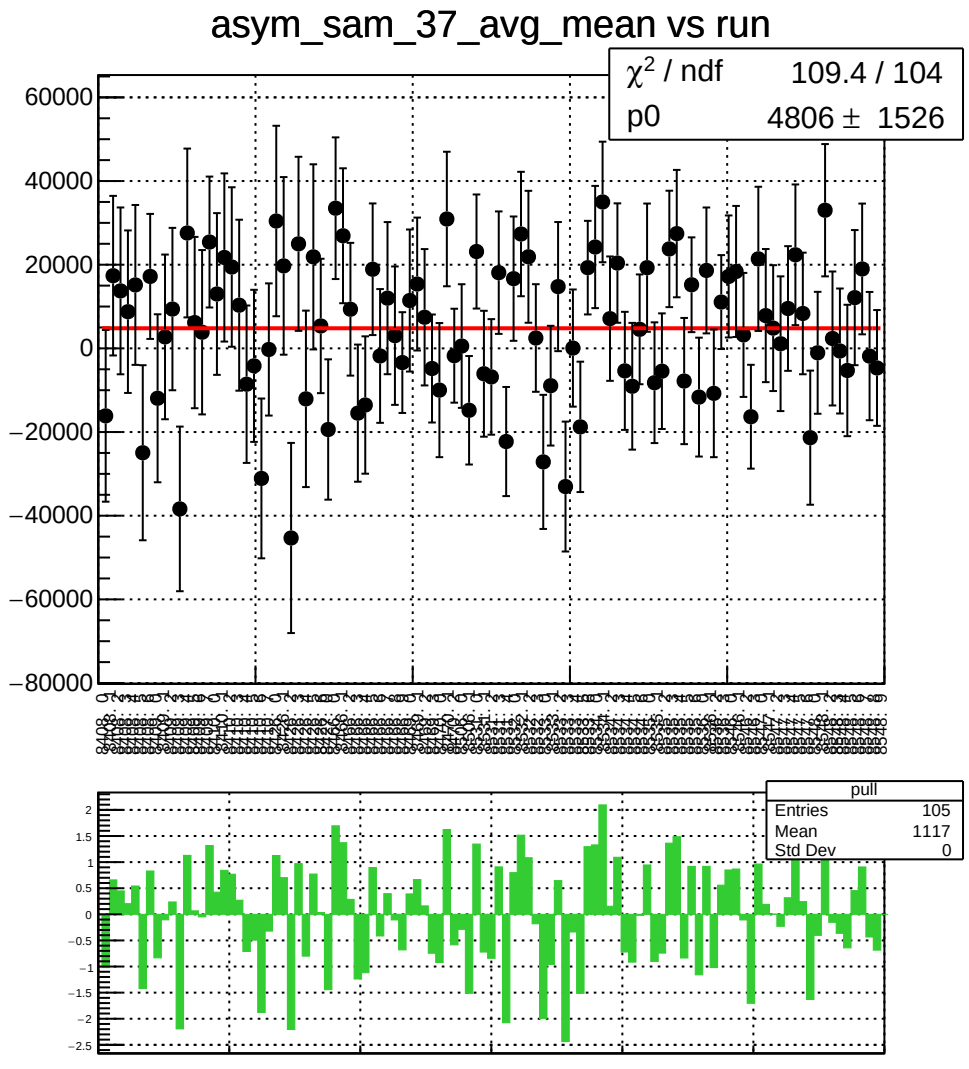

pull1D
Entries 105
Mean 0.003886
Std Dev 0.8693
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

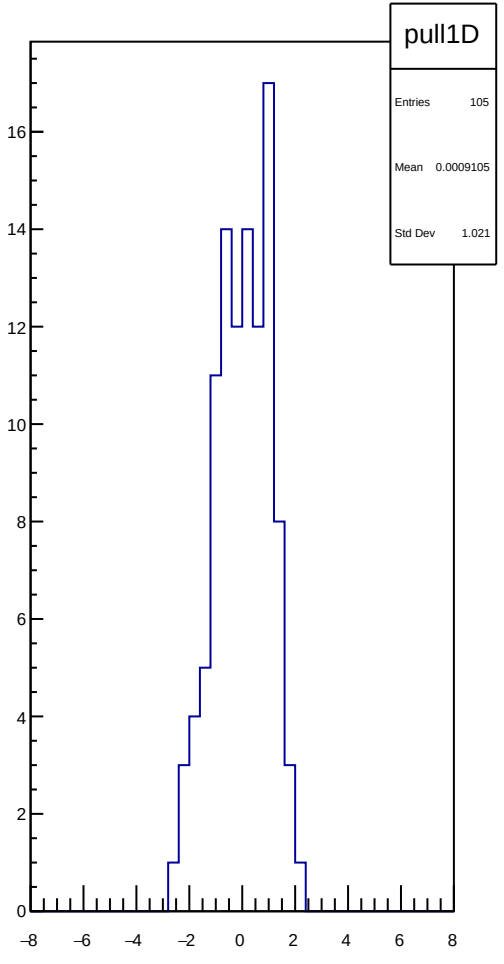

eigen_dit_asym_sam_37_avg_rms vs run
χ² / ndf 2.763e+04 / 104
p0 149.7 ± 0.1054
240
220
200
180
160
140
120

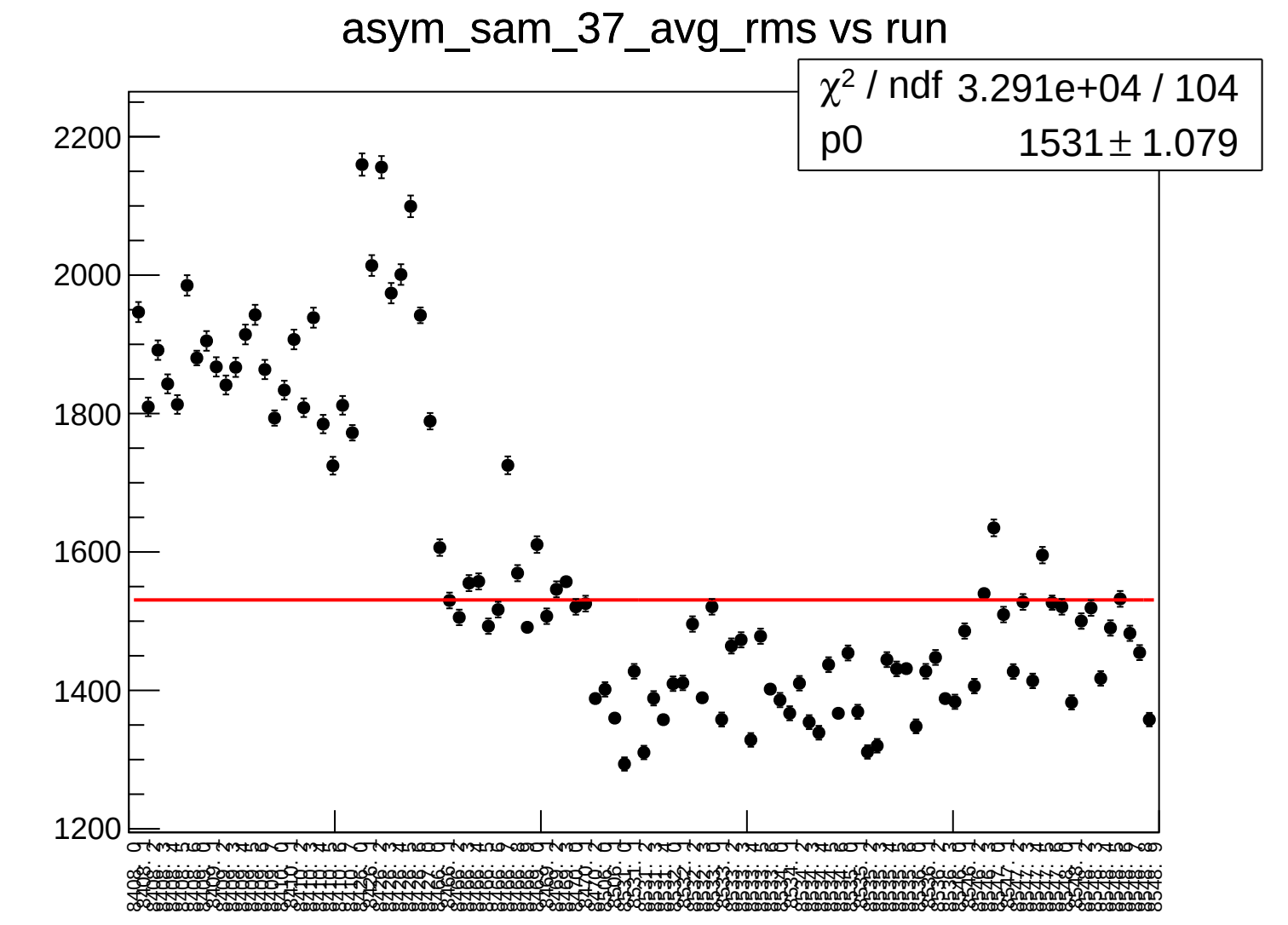

asym_sam_37_avg_eigen_dit_correction_mean vs run
χ² / ndf 110.8 / 104
p0 −5022 ± 1486
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean −1137
Std Dev 0
2
1
0
−1
−2

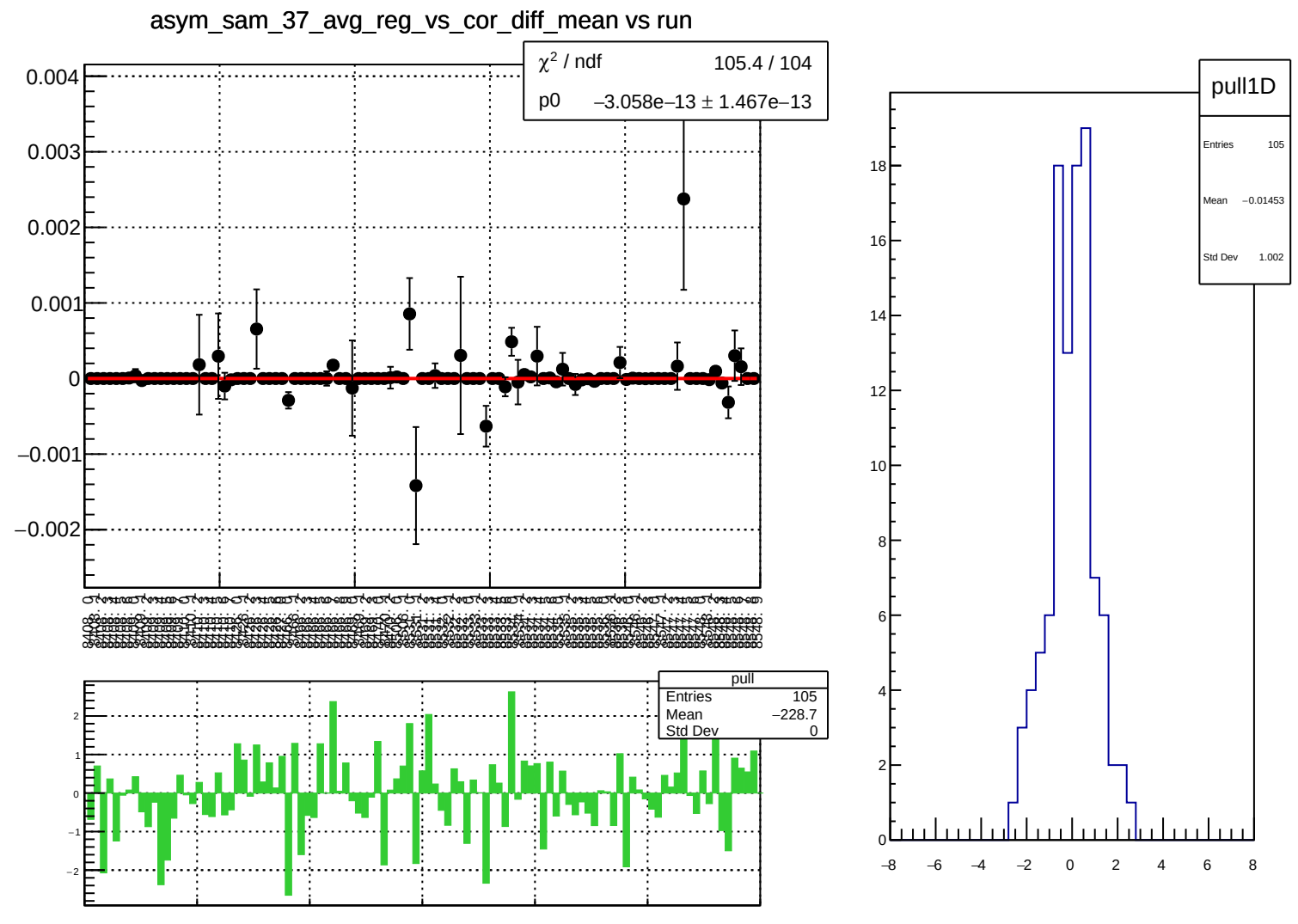

pull1D
Entries 105
Mean 0.00133
Std Dev 1.027
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

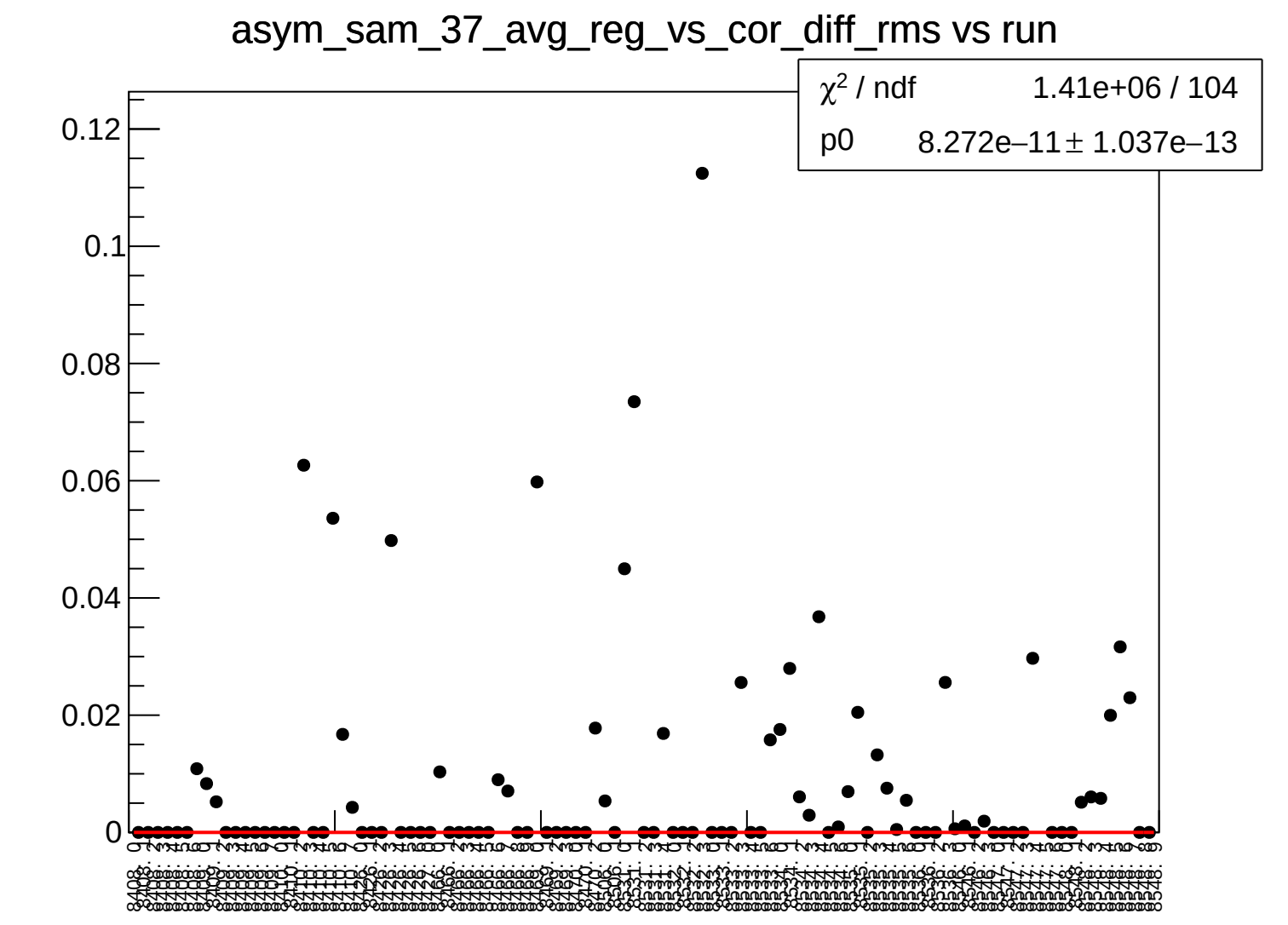

asym_sam_37_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.466e+04 / 104
p0 1491 ± 1.051
2200
2000
1800
1600
1400
1200

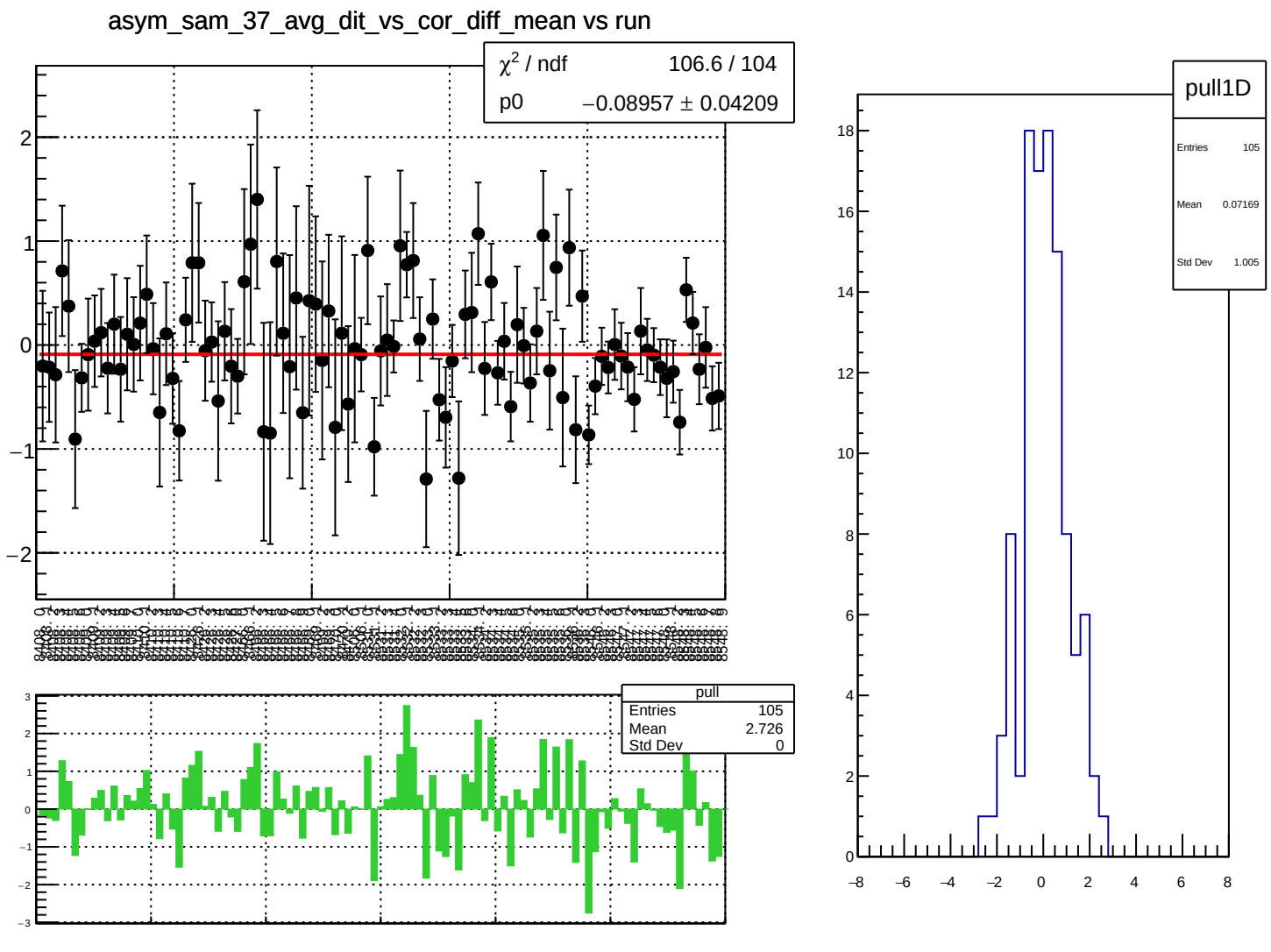

asym_sam_37_avg_mean vs run
χ² / ndf 109.4 / 104
p0 4806 ± 1526
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 105
Mean 1117
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

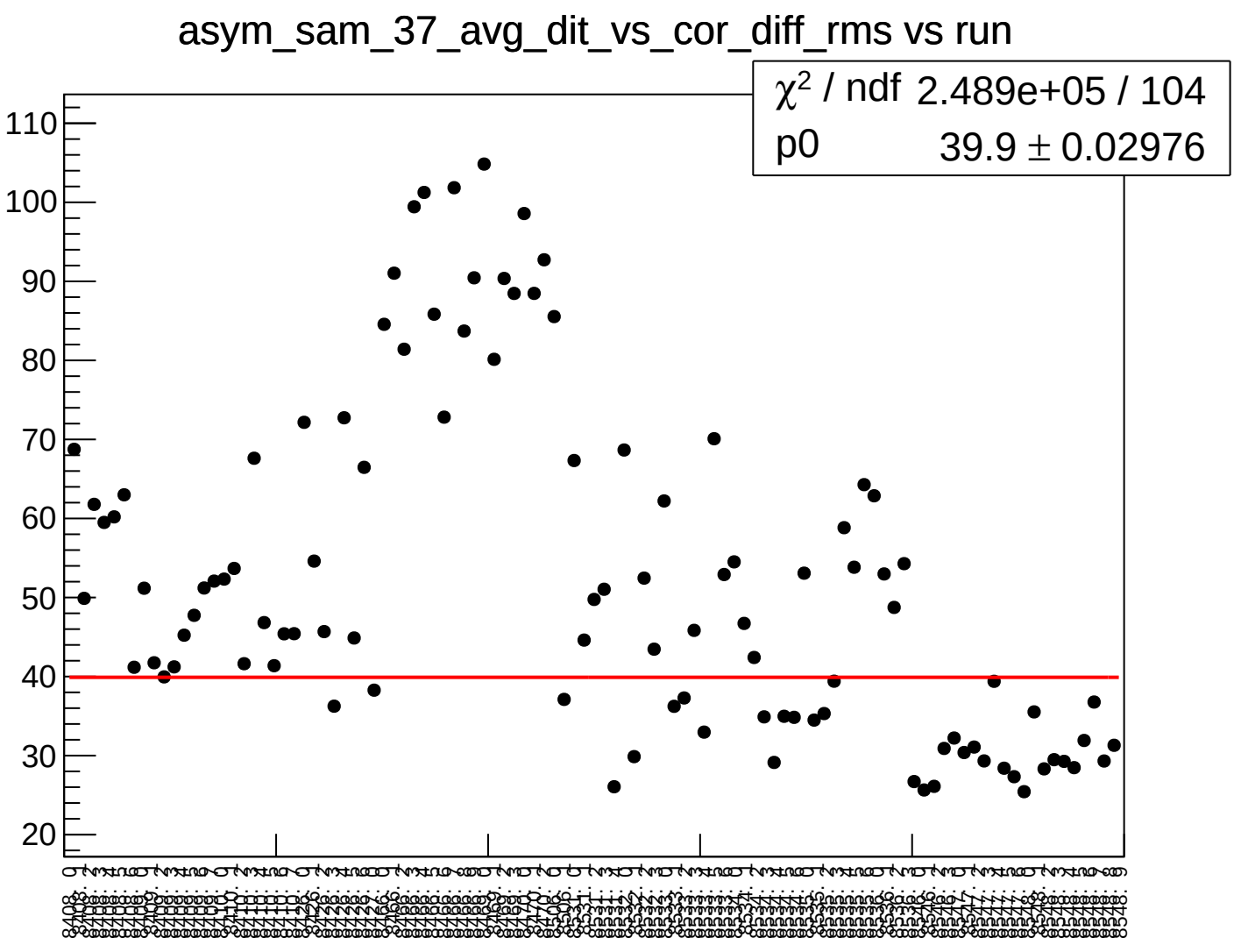

pull1D
Entries 105
Mean 0.0009105
Std Dev 1.021
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

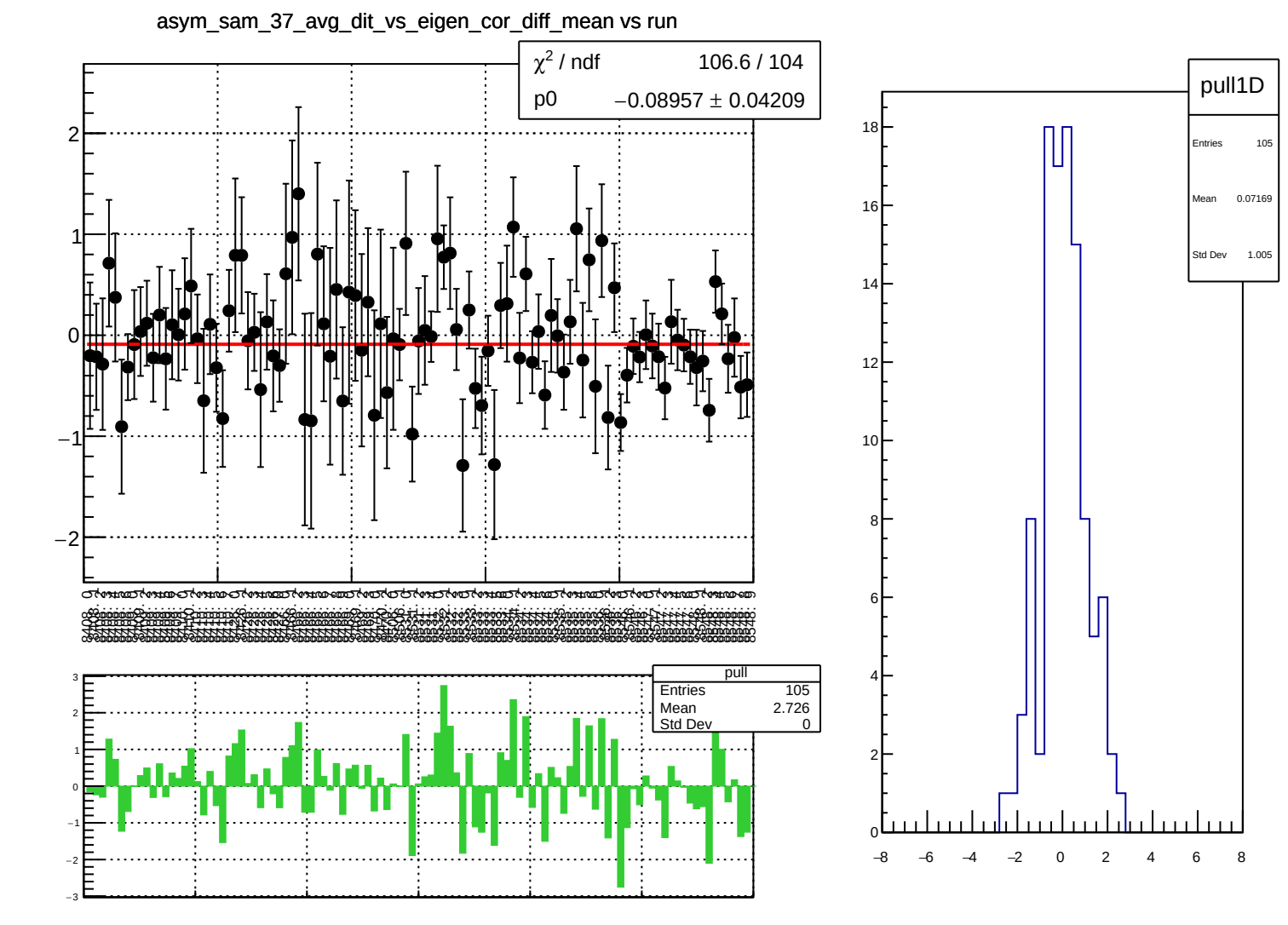

asym_sam_37_avg_rms vs run
χ² / ndf 3.291e+04 / 104
p0 1531 ± 1.079
2200
2000
1800
1600
1400
1200

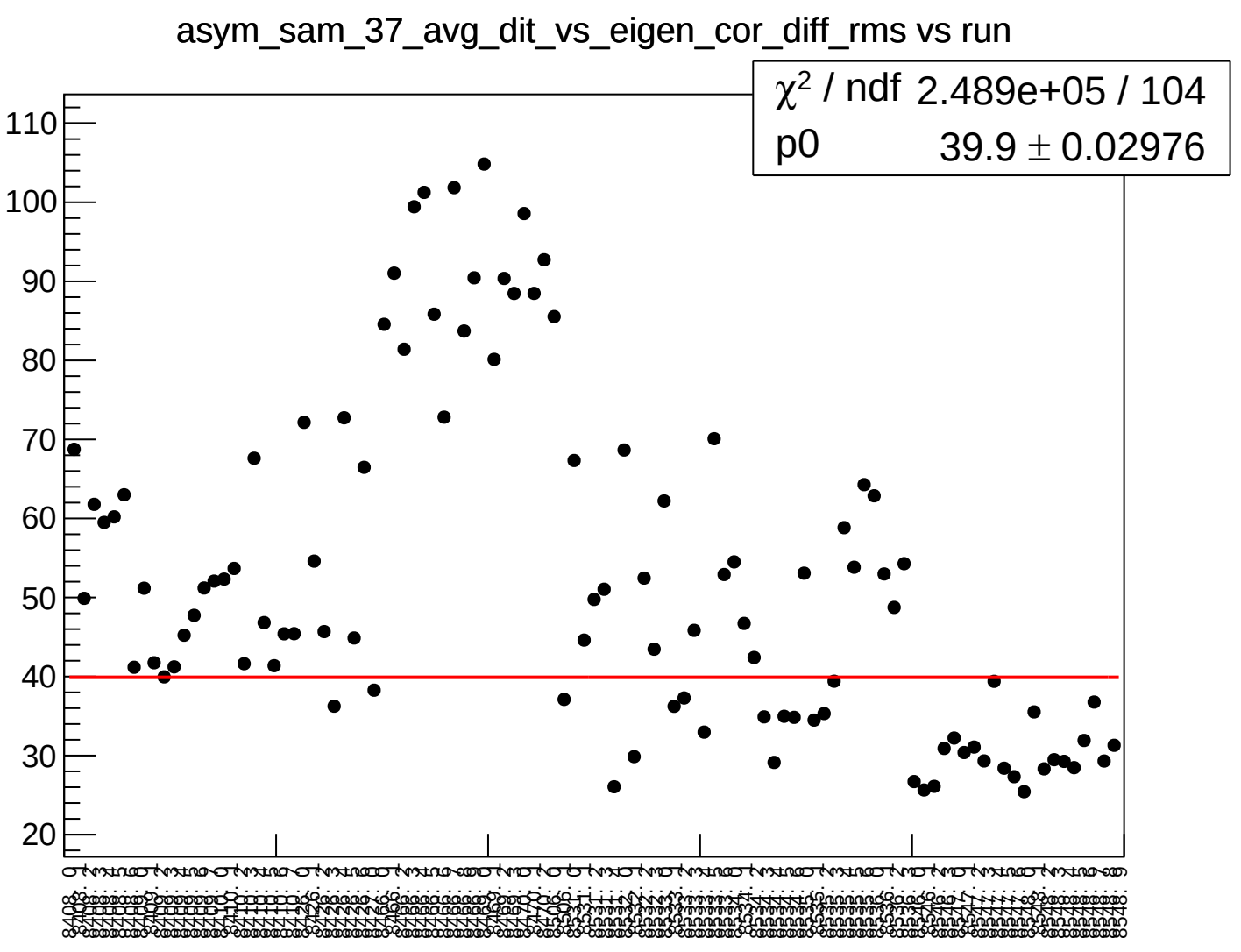

asym_sam_37_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 105.4 / 104
p0 −3.058e−13 ± 1.467e−13
0.004
0.003
0.002
0.001
0
−0.001
−0.002
pull
Entries 105
Mean −228.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.01453
Std Dev 1.002
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

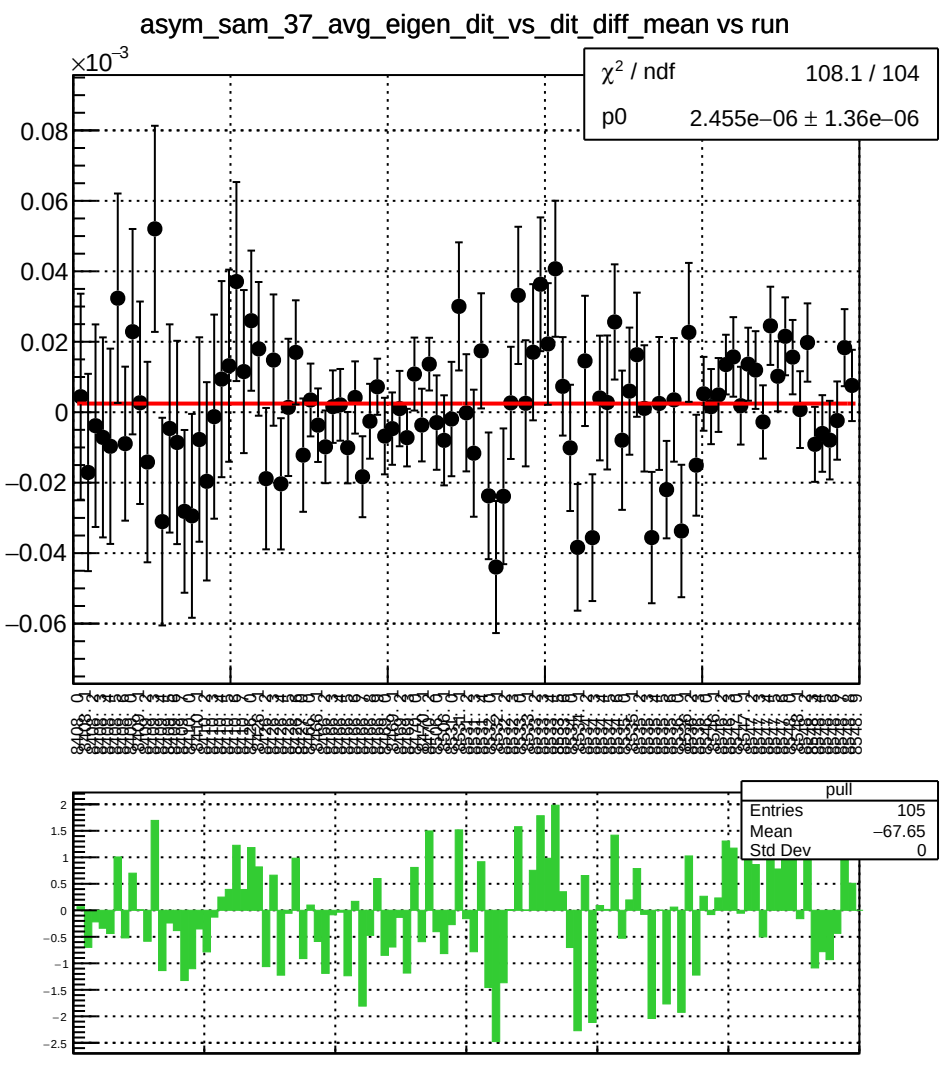

asym_sam_37_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.41e+06 / 104
p0 8.272e−11 ± 1.037e−13
0.12
0.1
0.08
0.06
0.04
0.02
0

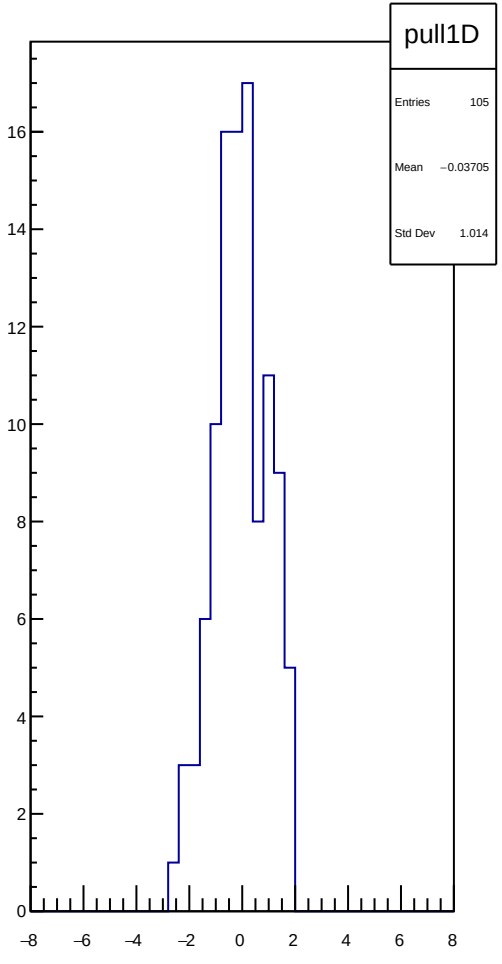

asym_sam_37_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 106.6 / 104
p0 −0.08957 ± 0.04209
pull
Entries 105
Mean 2.726
Std Dev 0
pull1D
Entries 105
Mean 0.07169
Std Dev 1.005

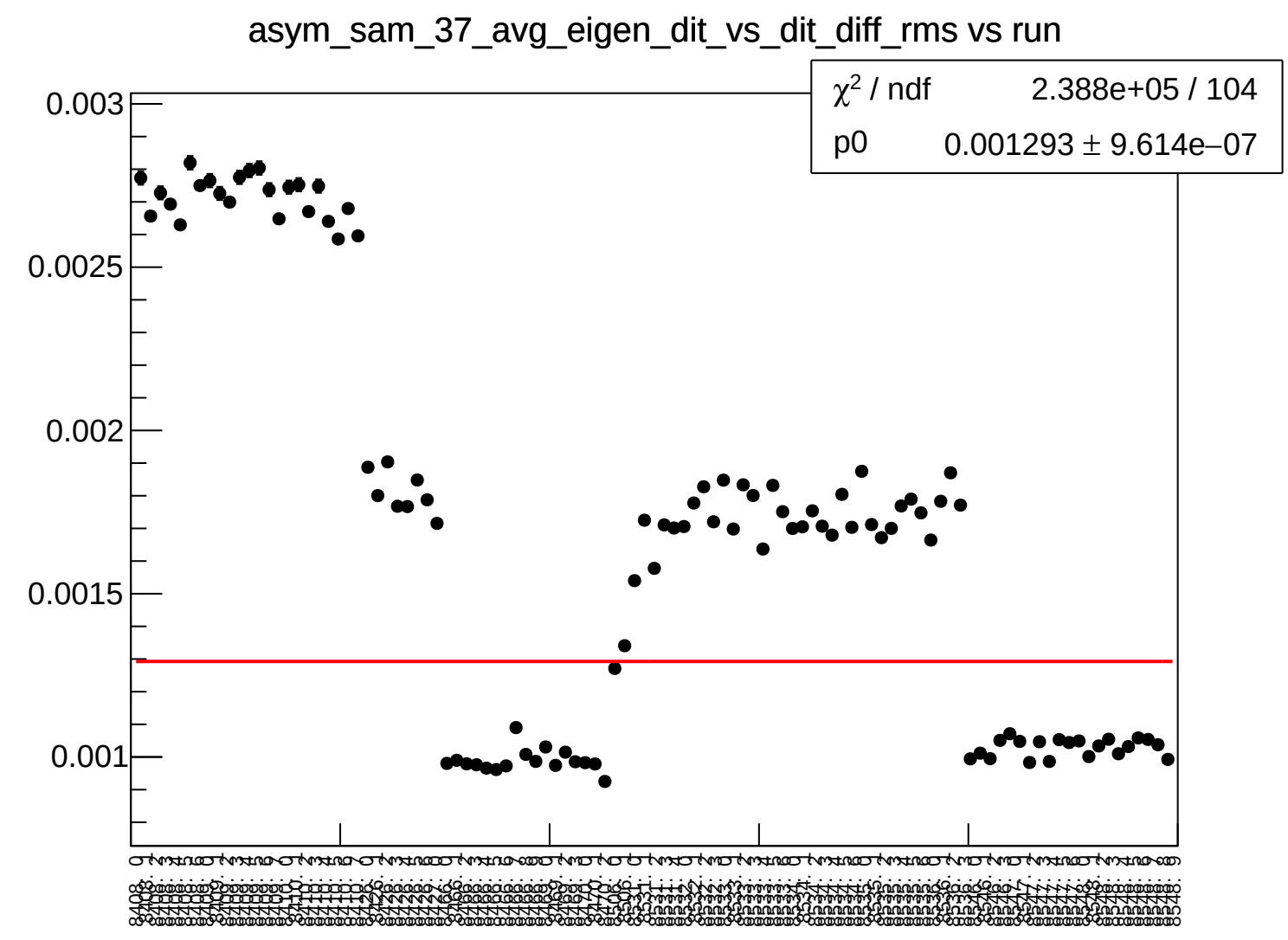

asym_sam_37_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 2.489e+05 / 104
p0 39.9 ± 0.02976
110
100
90
80
70
60
50
40
30
20

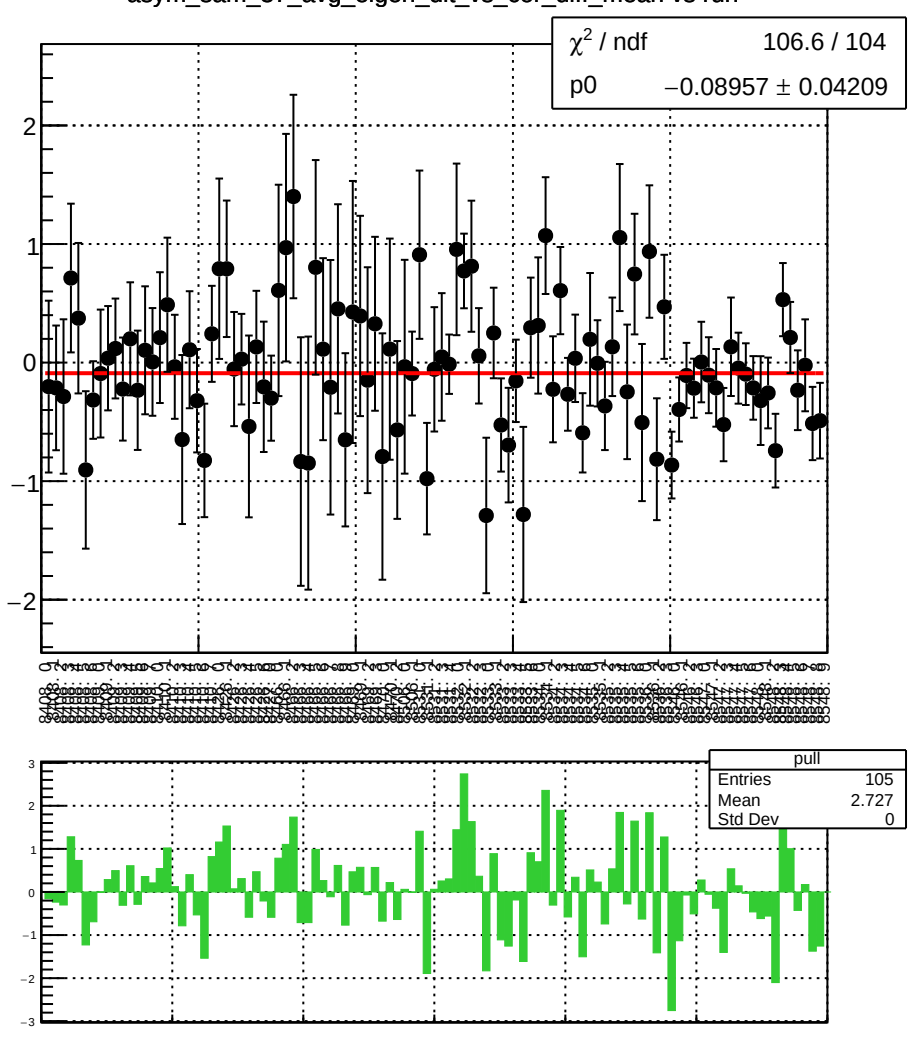

asym_sam_37_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.6 / 104
p0 −0.08957 ± 0.04209
pull
Entries 105
Mean 2.726
Std Dev 0
pull1D
Entries 105
Mean 0.07169
Std Dev 1.005

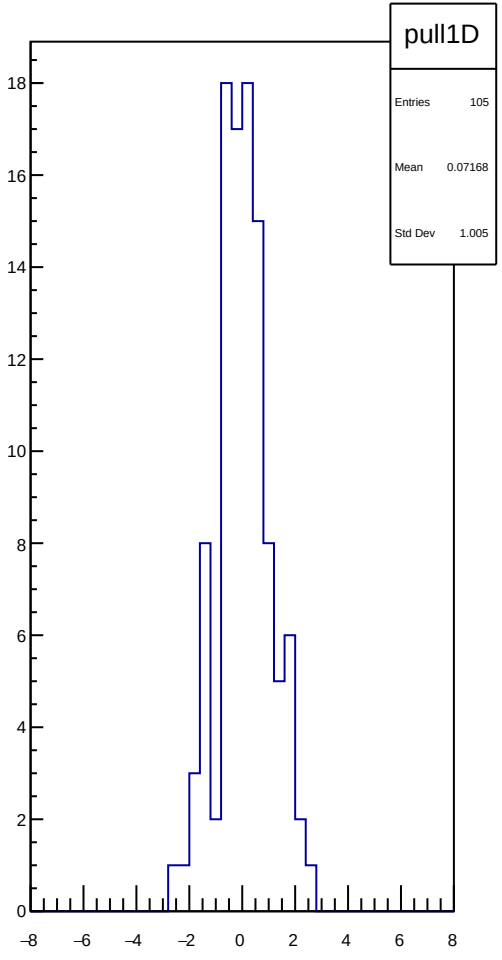

asym_sam_37_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.489e+05 / 104
p0 39.9 ± 0.02976
110
100
90
80
70
60
50
40
30
20

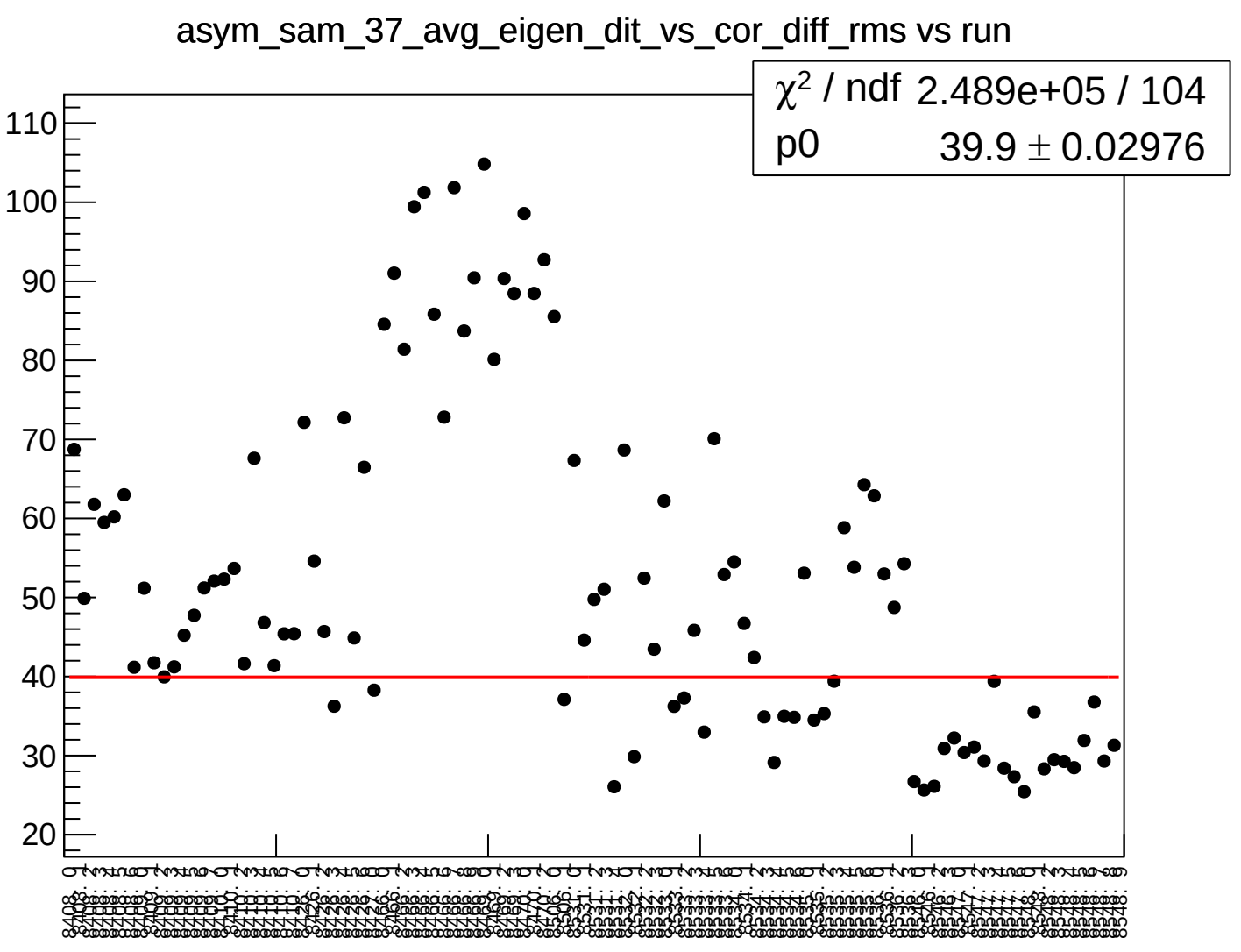

asym_sam_37_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 108.1 / 104
p0 2.455e−06 ± 1.36e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 105
Mean −67.65
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

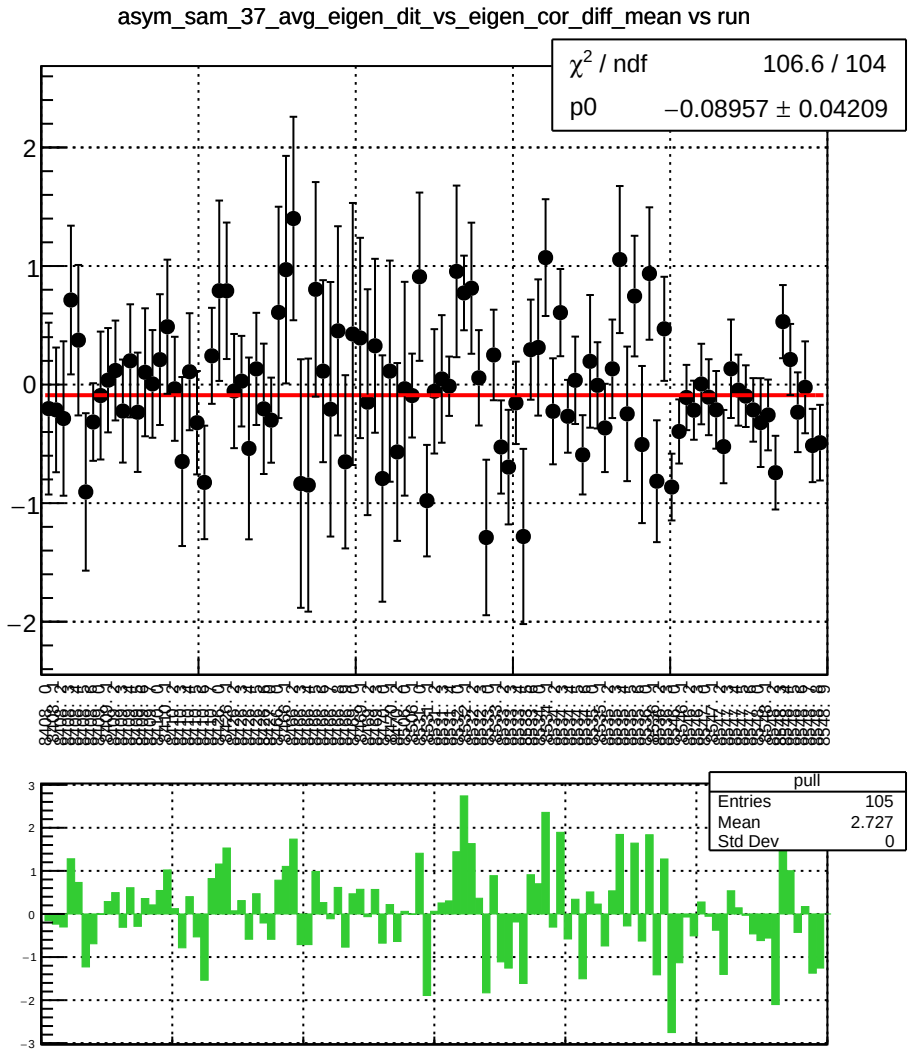

pull1D
Entries 105
Mean −0.03705
Std Dev 1.014
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

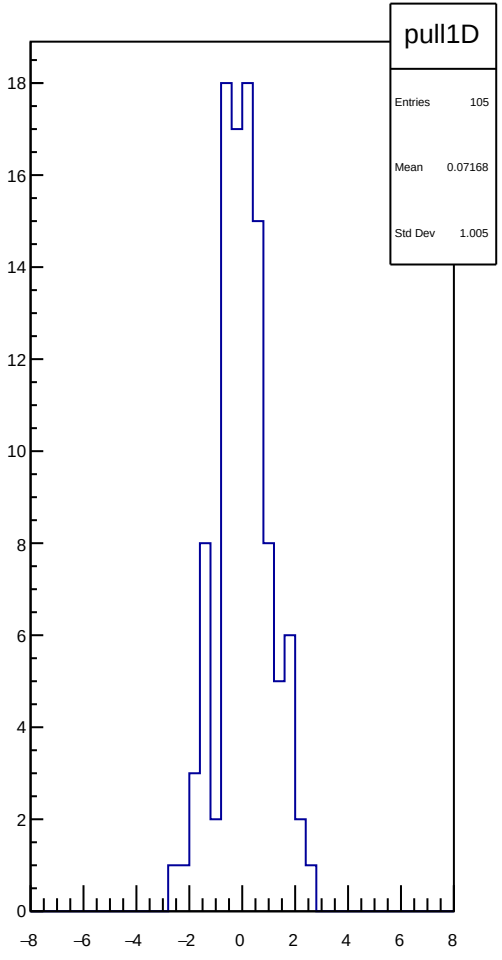

asym_sam_37_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.388e+05 / 104
p0 0.001293 ± 9.614e−07
0.003
0.0025
0.002
0.0015
0.001

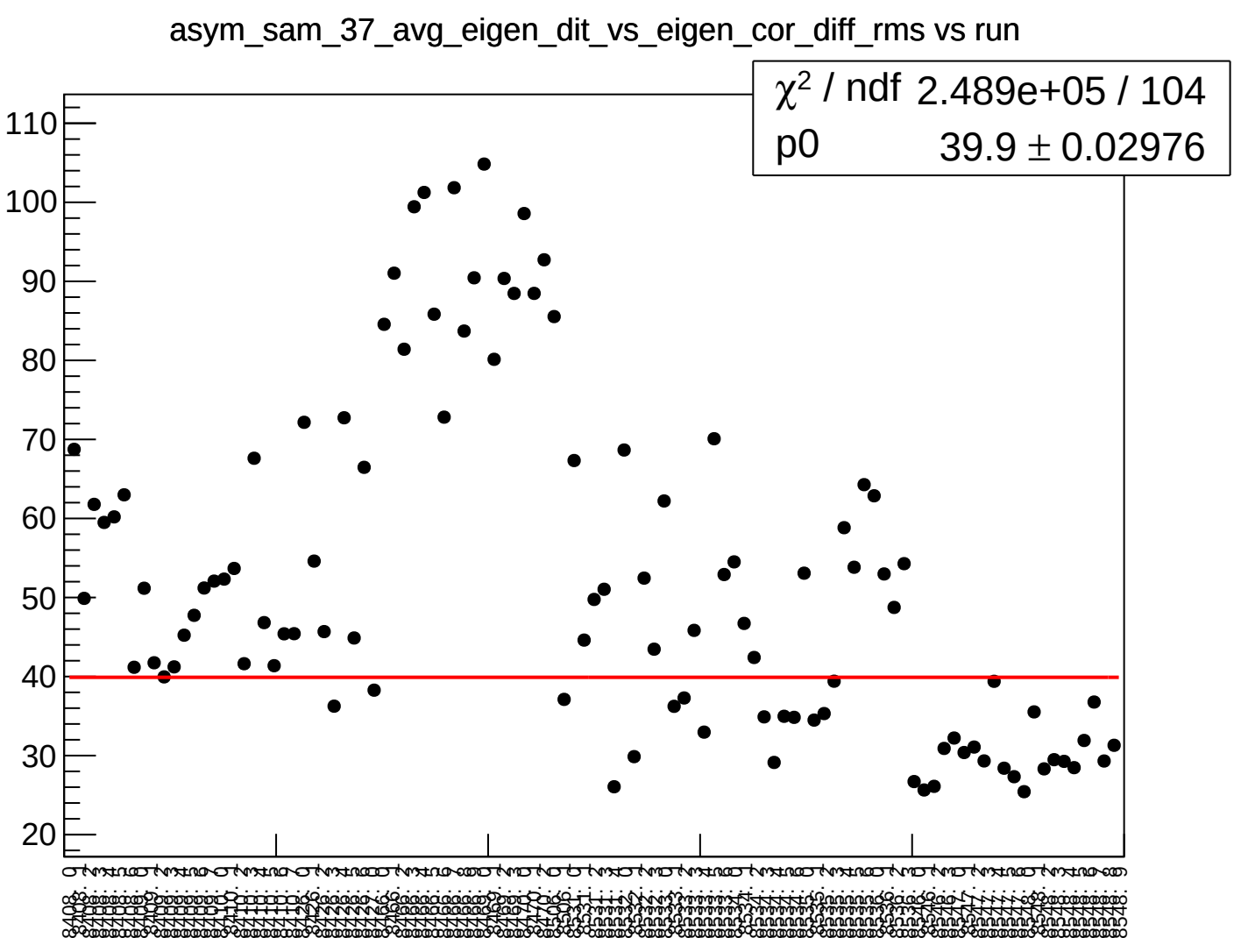

asym_sam_37_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 106.6 / 104
p0 −0.08957 ± 0.04209
pull
Entries 105
Mean 2.727
Std Dev 0

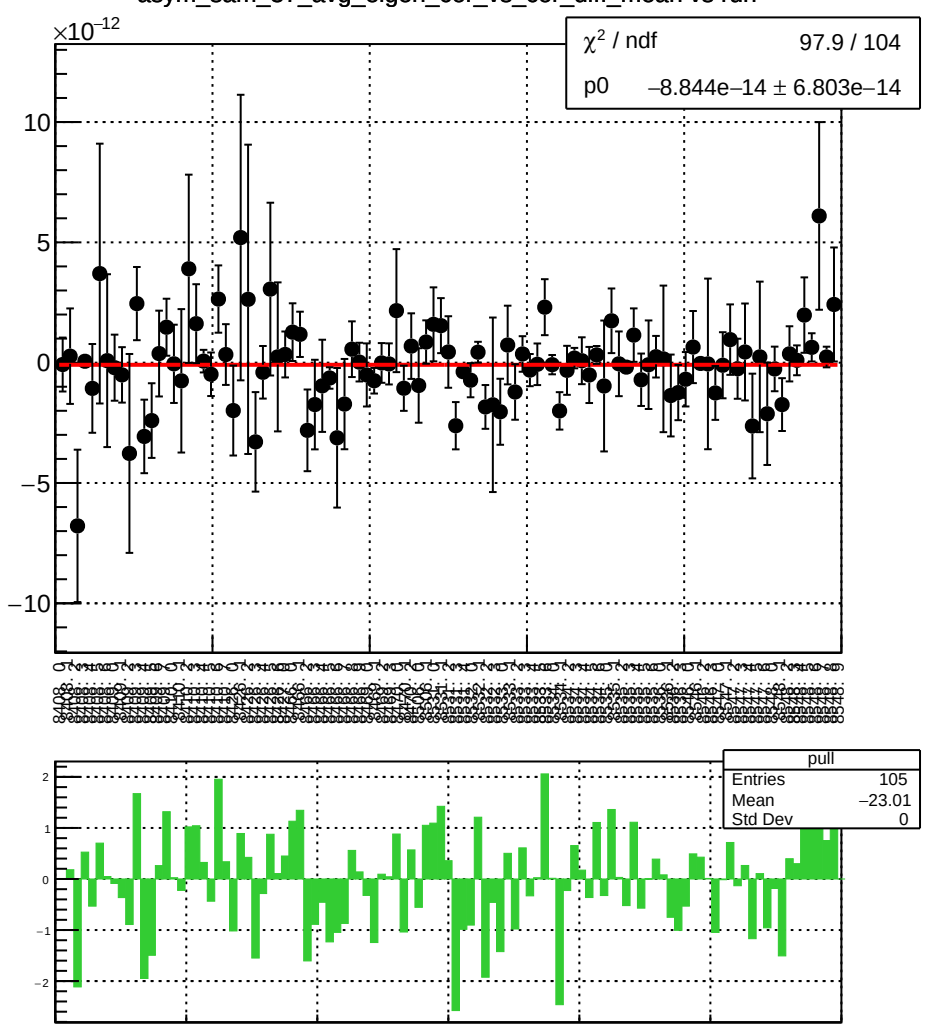

pull1D
Entries 105
Mean 0.07168
Std Dev 1.005

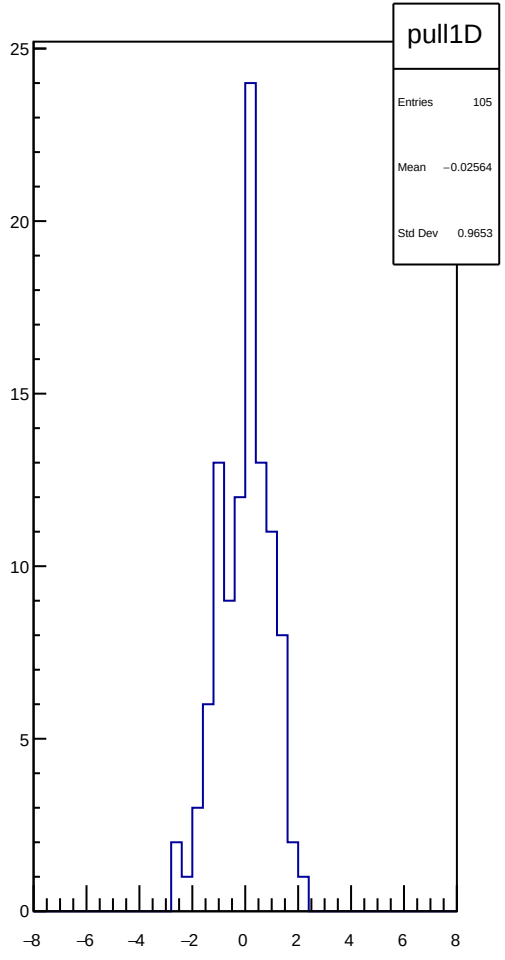

asym_sam_37_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 2.489e+05 / 104
p0 39.9 ± 0.02976
110
100
90
80
70
60
50
40
30
20

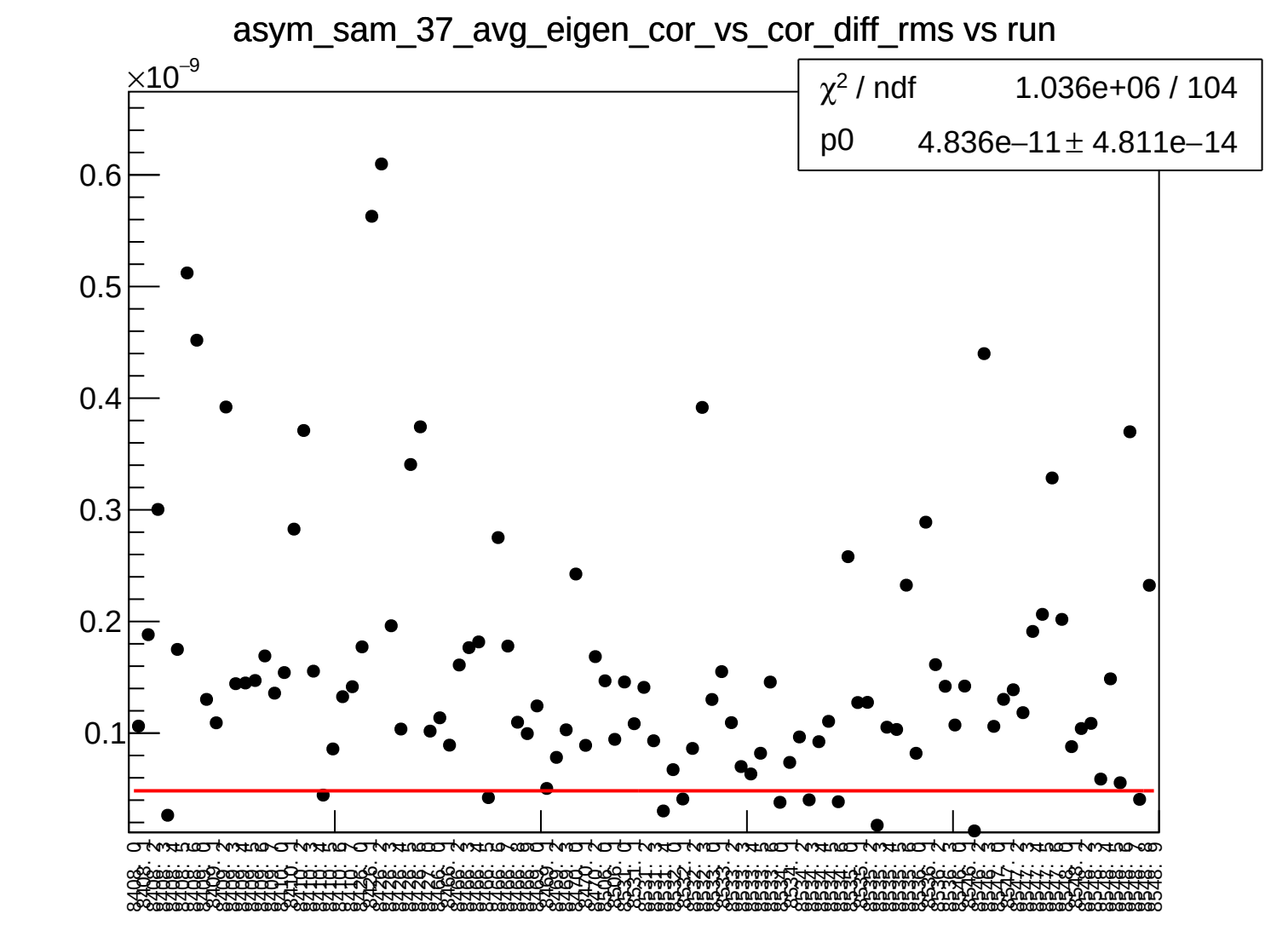

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 106.6 / 104
p0 −0.08957 ± 0.04209
pull
Entries 105
Mean 2.727
Std Dev 0

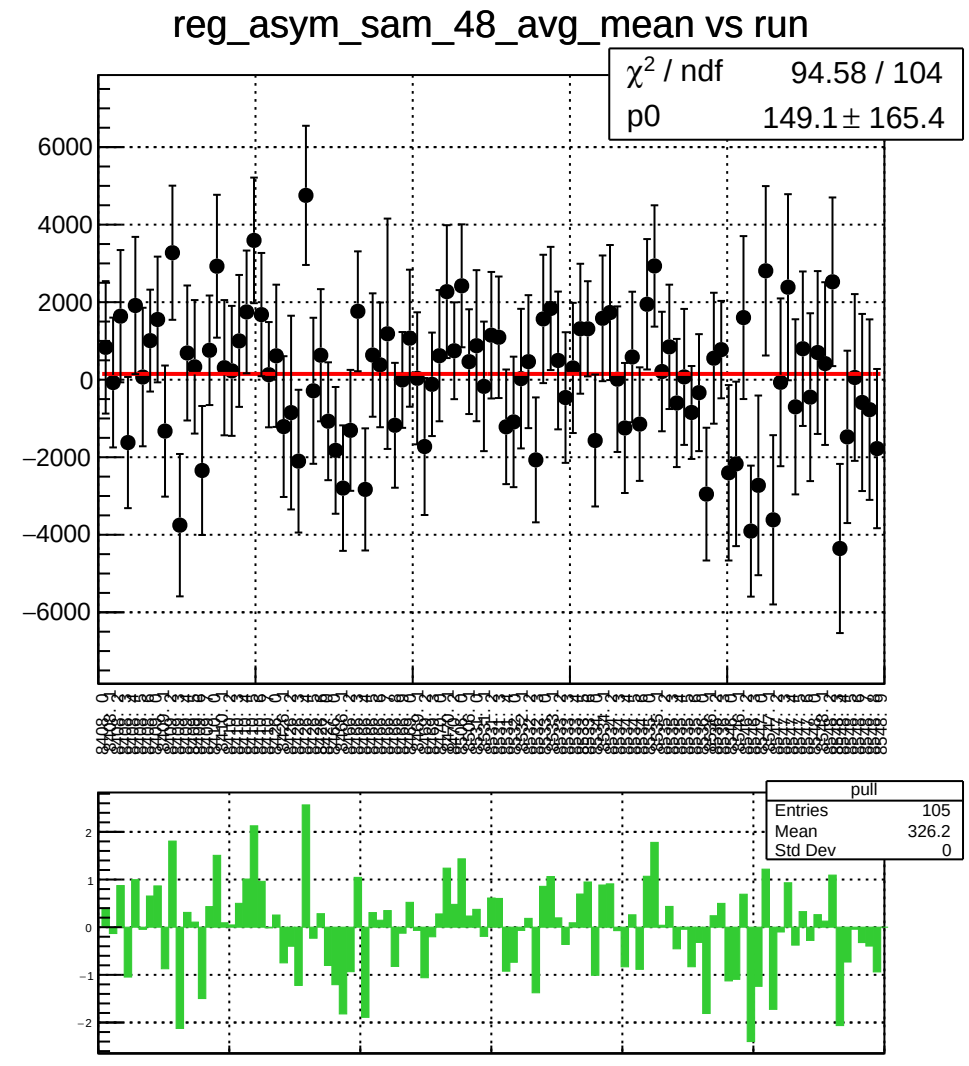

pull1D
Entries 105
Mean 0.07168
Std Dev 1.005

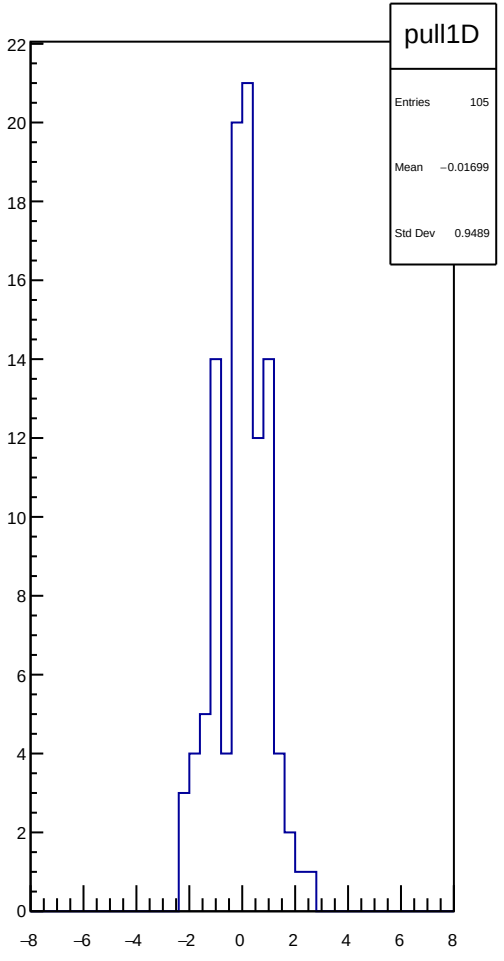

asym_sam_37_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 2.489e+05 / 104
p0 39.9 ± 0.02976
110
100
90
80
70
60
50
40
30
20

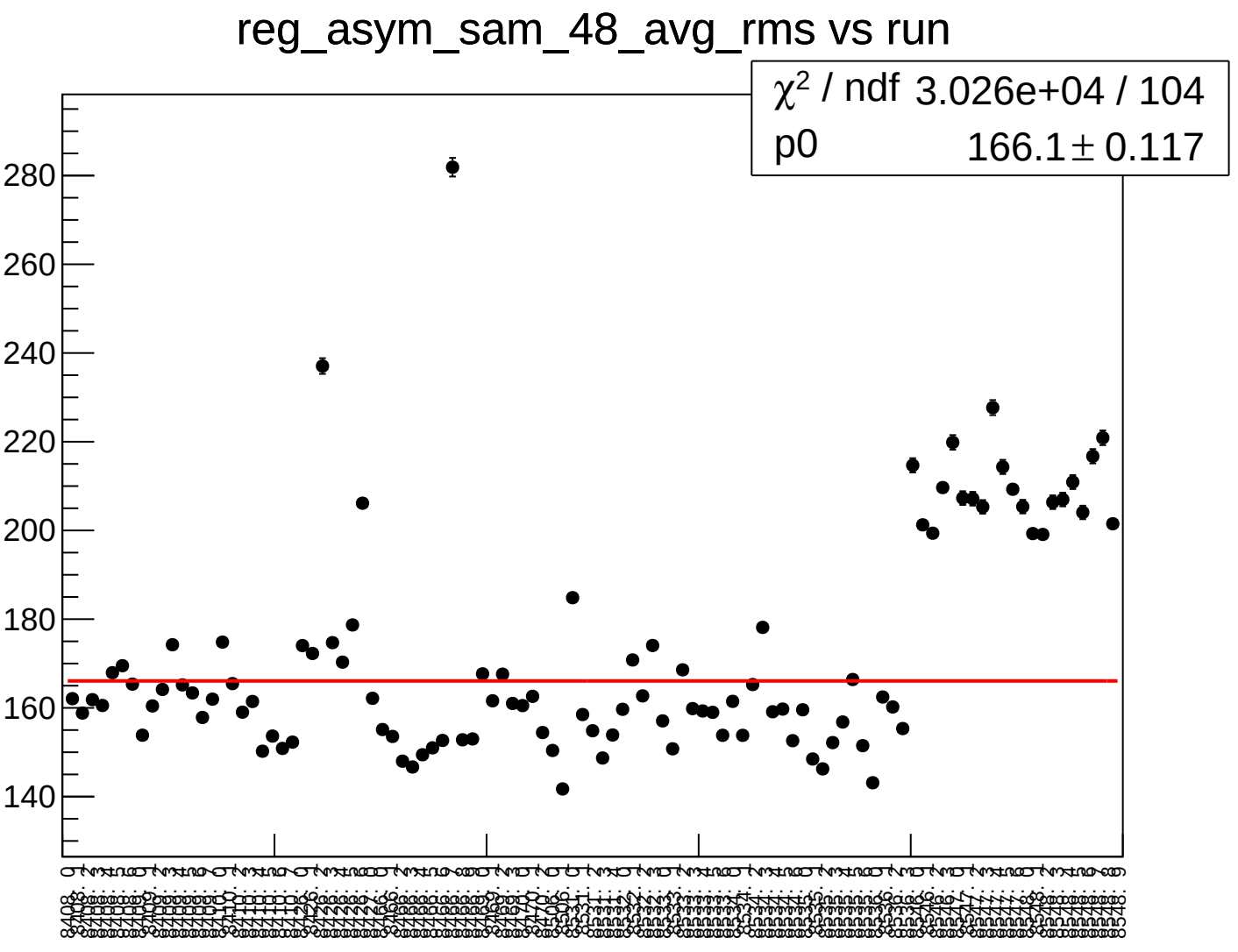

asym_sam_37_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 97.9 / 104
p0 −8.844e−14 ± 6.803e−14
10
5
0
−5
−10
pull
Entries 105
Mean −23.01
Std Dev 0
2
1
0
−1
−2

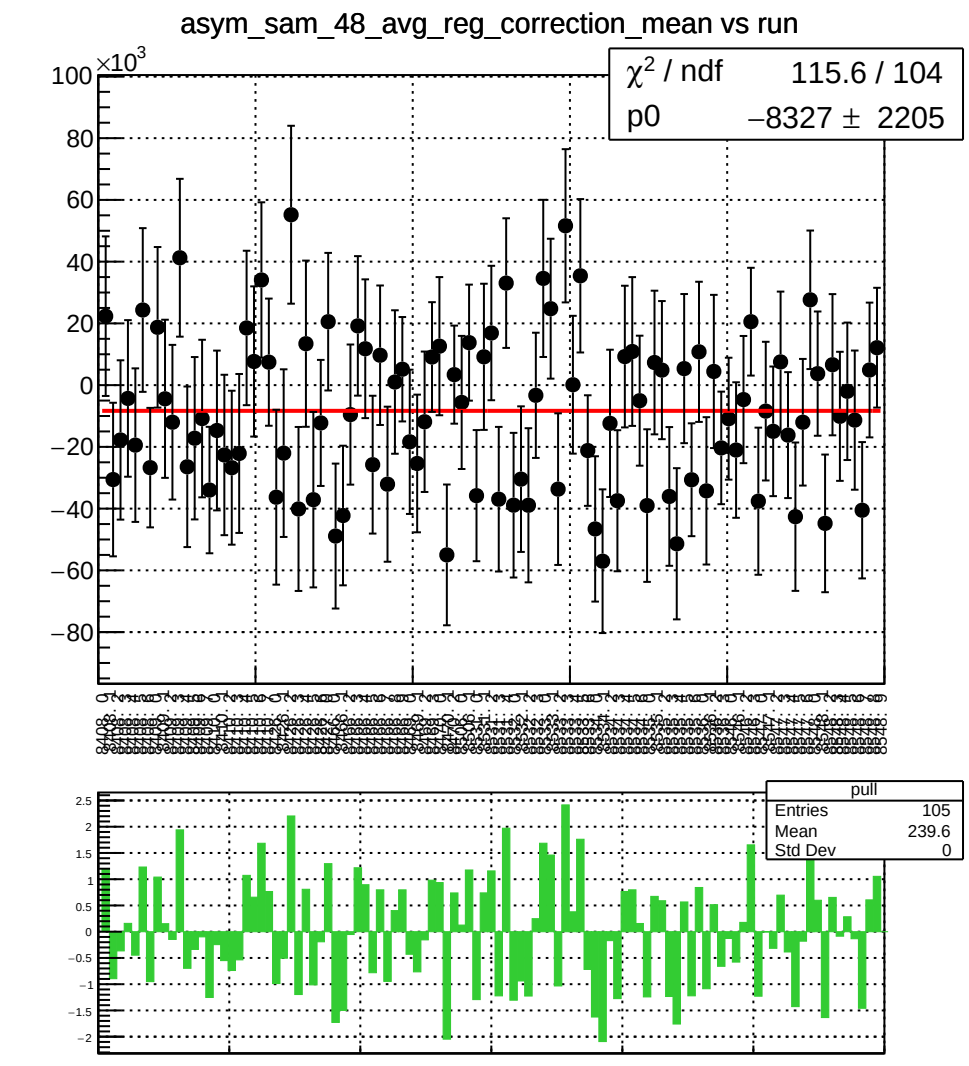

pull1D
Entries 105
Mean −0.02564
Std Dev 0.9653
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

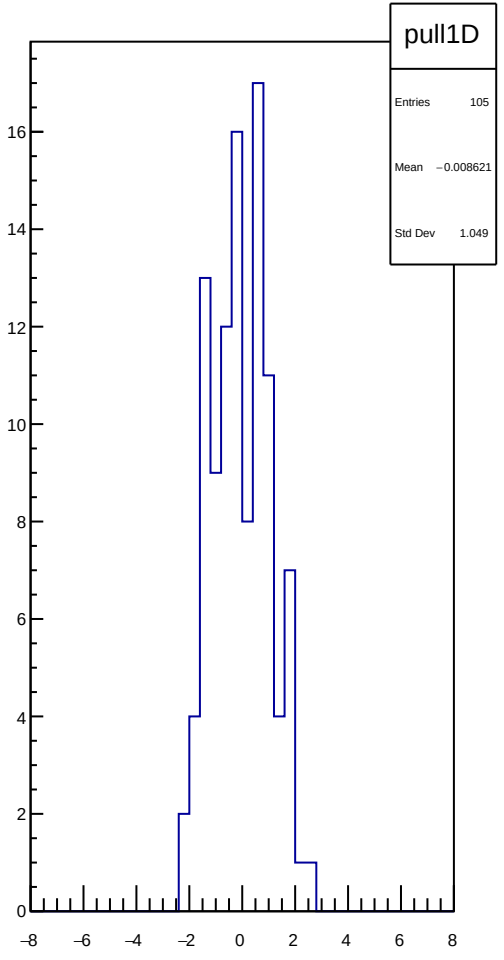

asym_sam_37_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 1.036e+06 / 104
p0 4.836e−11 ± 4.811e−14
0.6
0.5
0.4
0.3
0.2
0.1

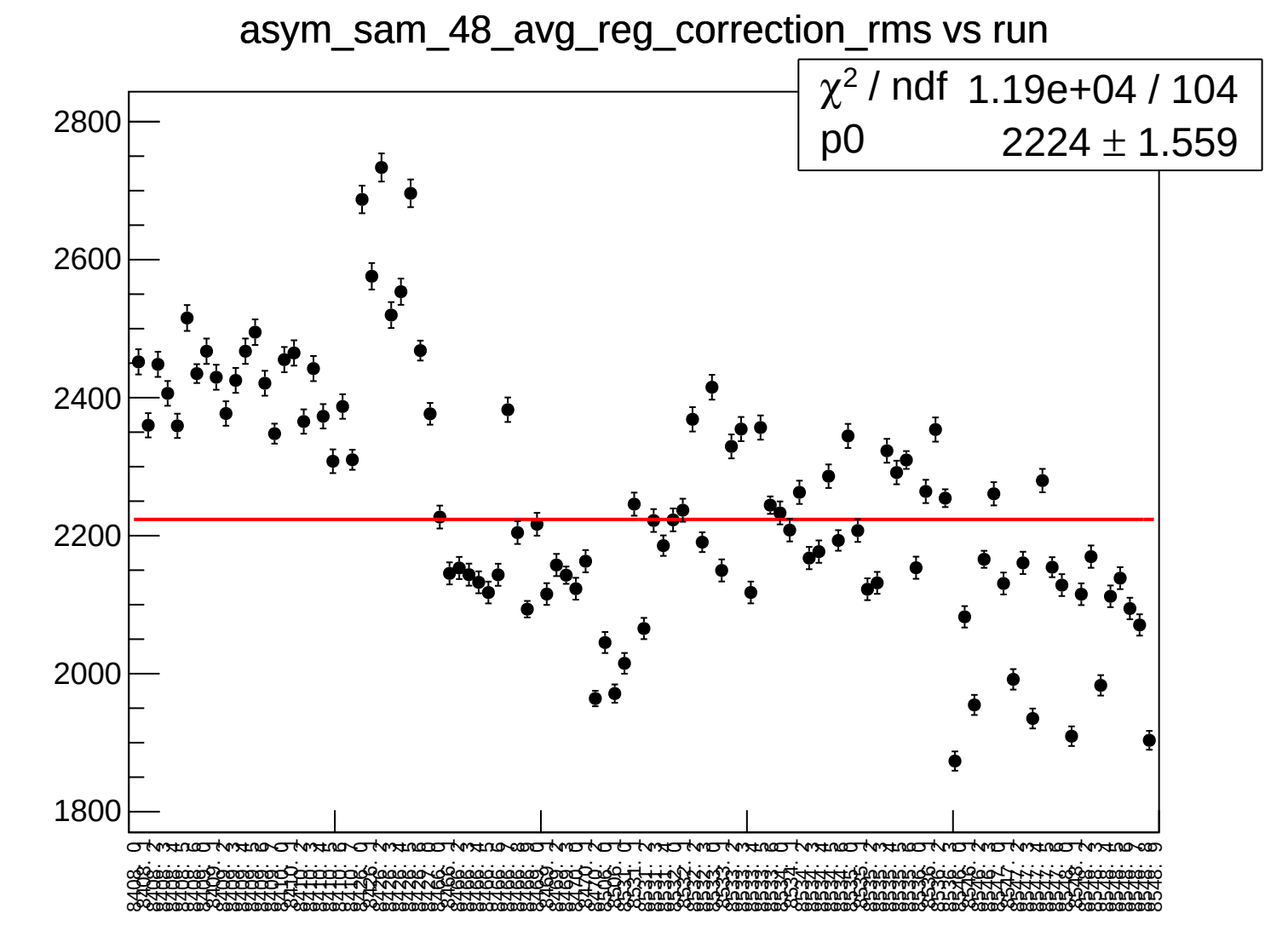

reg_asym_sam_48_avg_mean vs run
χ² / ndf 94.58 / 104
p0 149.1 ± 165.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 105
Mean 326.2
Std Dev 0
2
1
0
−1
−2

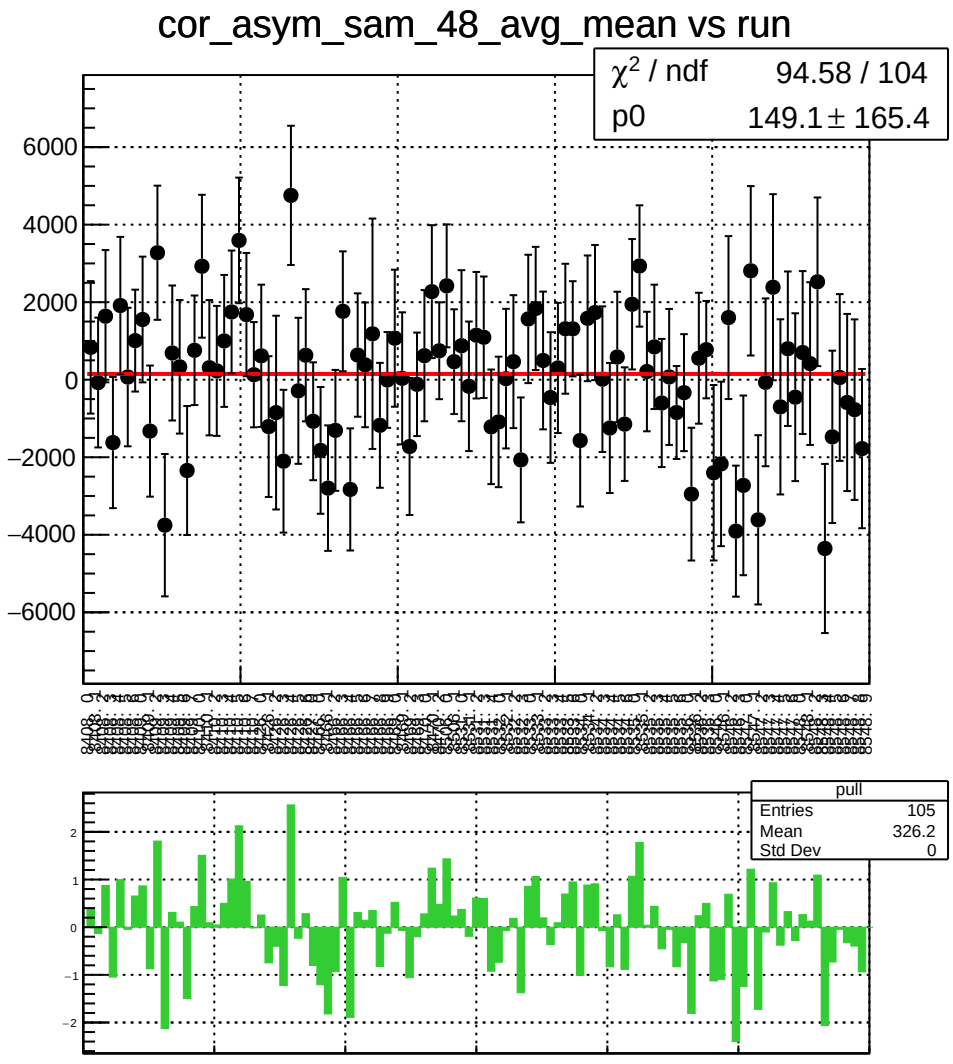

pull1D
Entries 105
Mean −0.01699
Std Dev 0.9489
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

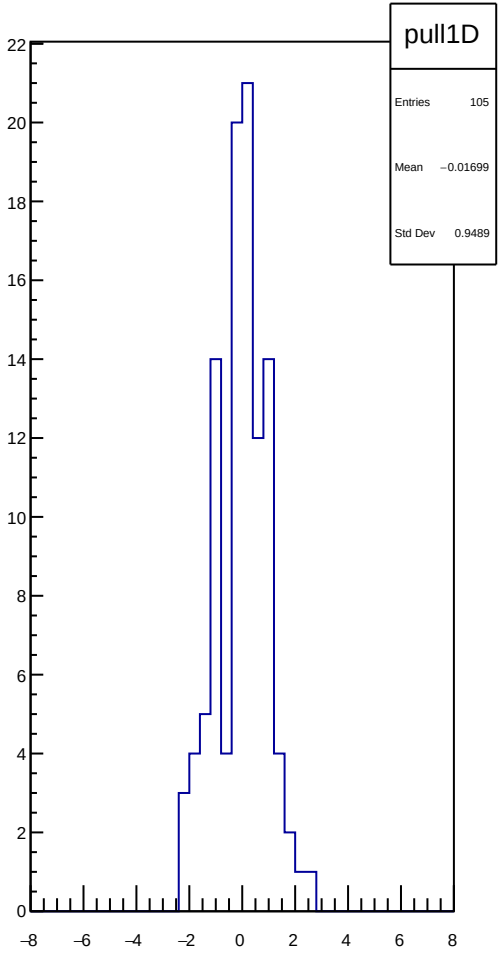

reg_asym_sam_48_avg_rms vs run
χ^2 / ndf 3.026e+04 / 104
p0 166.1 ± 0.117
280
260
240
220
200
180
160
140

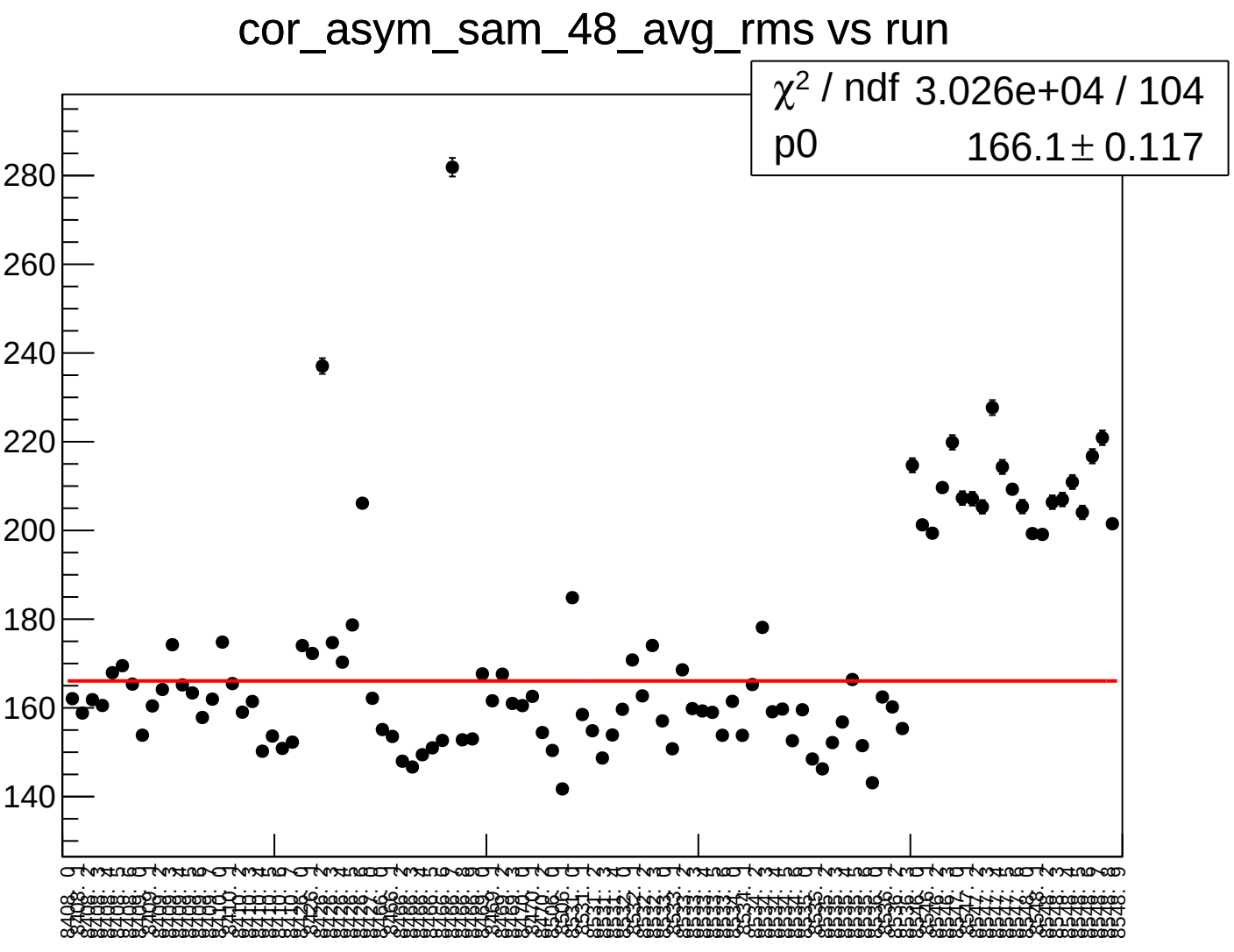

asym_sam_48_avg_reg_correction_mean vs run
×10^3
χ² / ndf 115.6 / 104
p0 −8327 ± 2205
pull
Entries 105
Mean 239.6
Std Dev 0

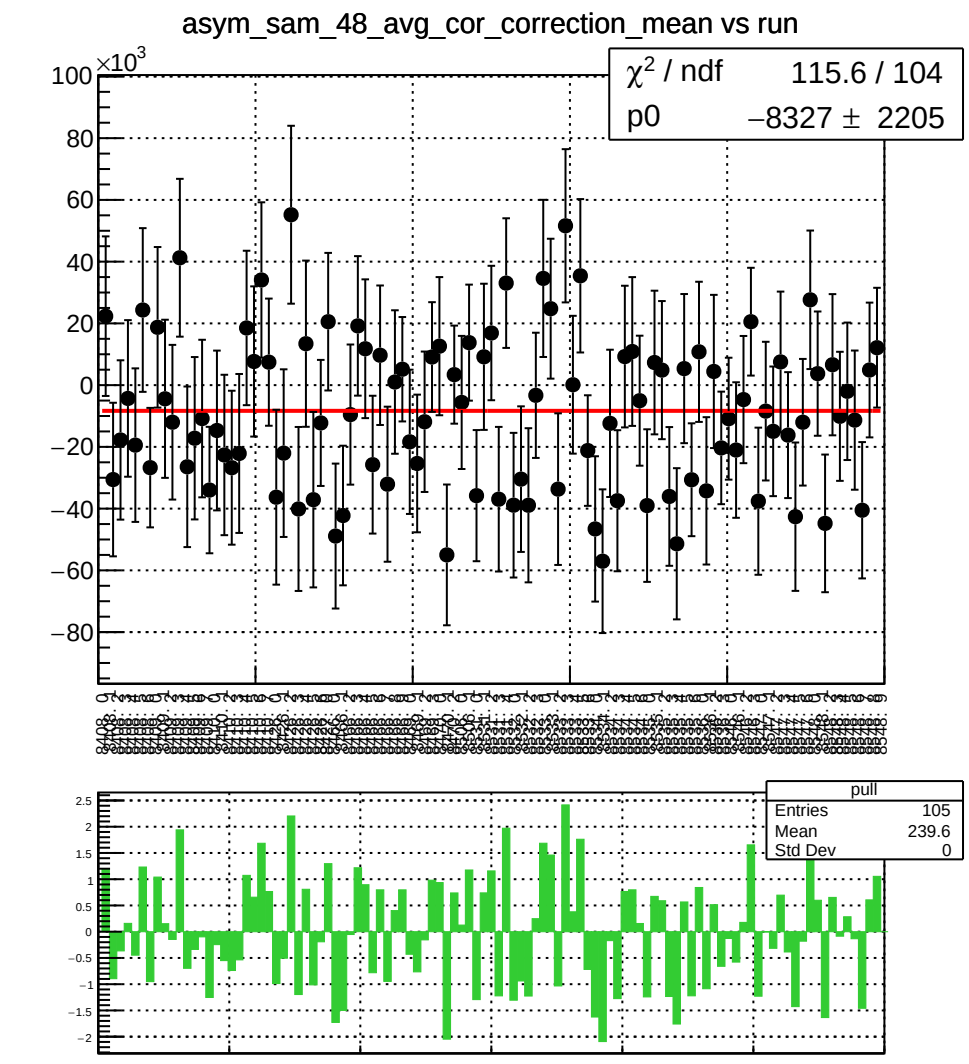

pull1D
Entries 105
Mean −0.008621
Std Dev 1.049

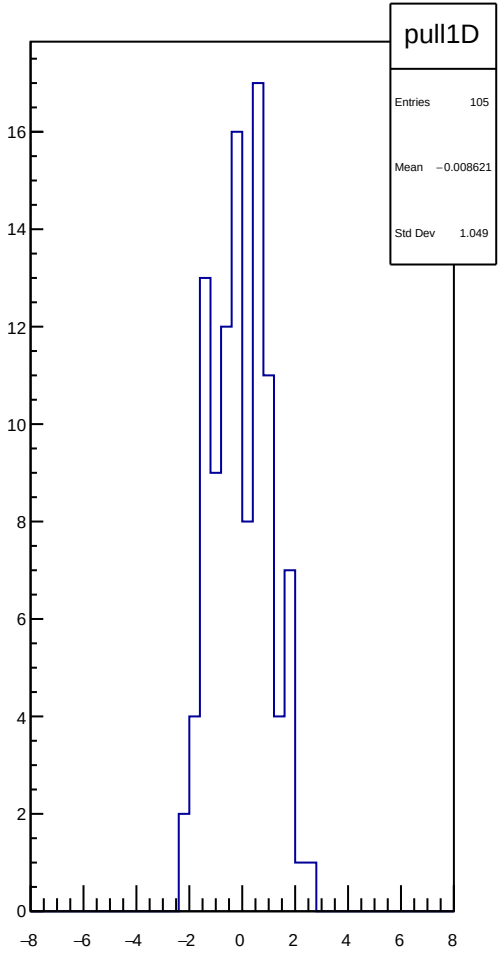

asym_sam_48_avg_reg_correction_rms vs run
χ² / ndf 1.19e+04 / 104
p0 2224 ± 1.559
2800
2600
2400
2200
2000
1800

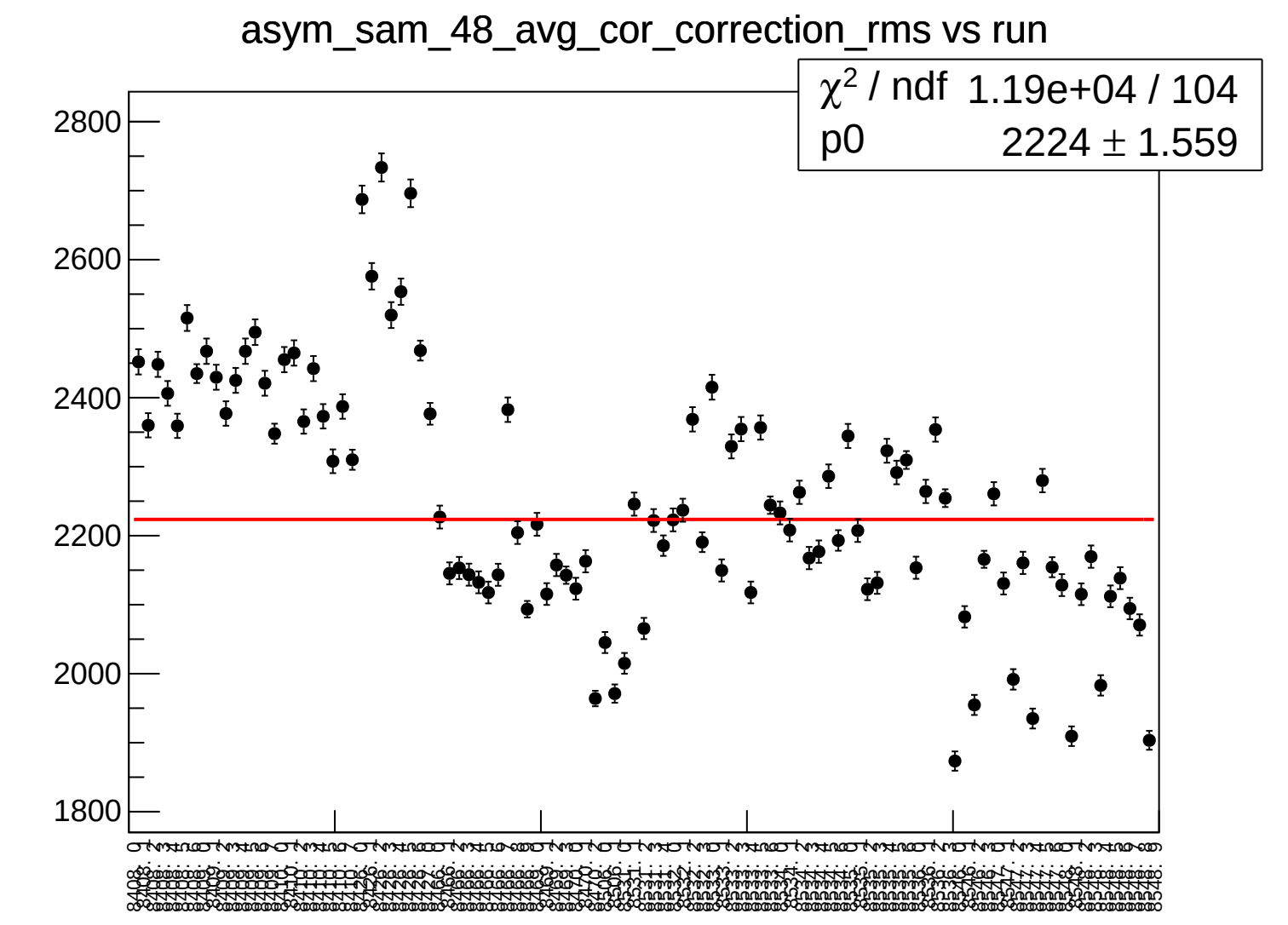

cor_asym_sam_48_avg_mean vs run
χ² / ndf 94.58 / 104
p0 149.1 ± 165.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 105
Mean 326.2
Std Dev 0
2
1
0
−1
−2

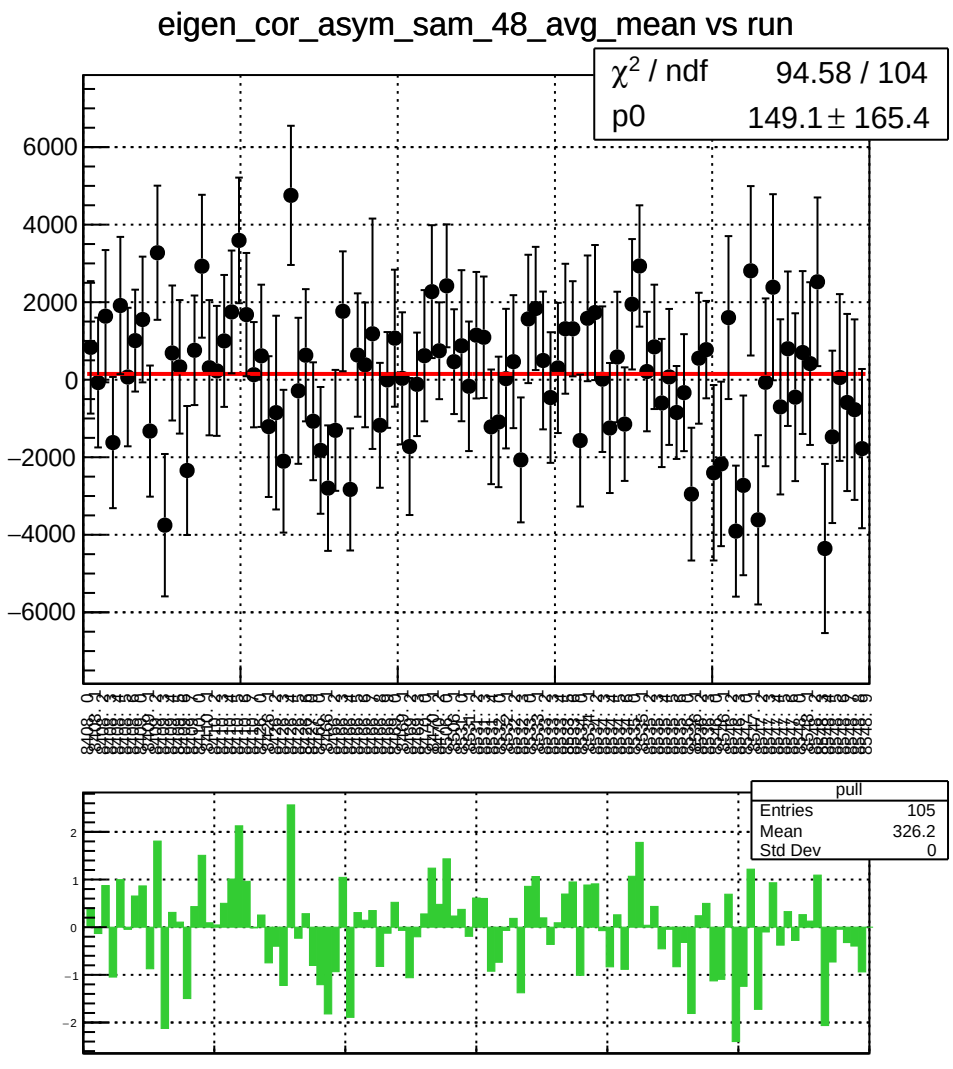

pull1D
Entries 105
Mean −0.01699
Std Dev 0.9489
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

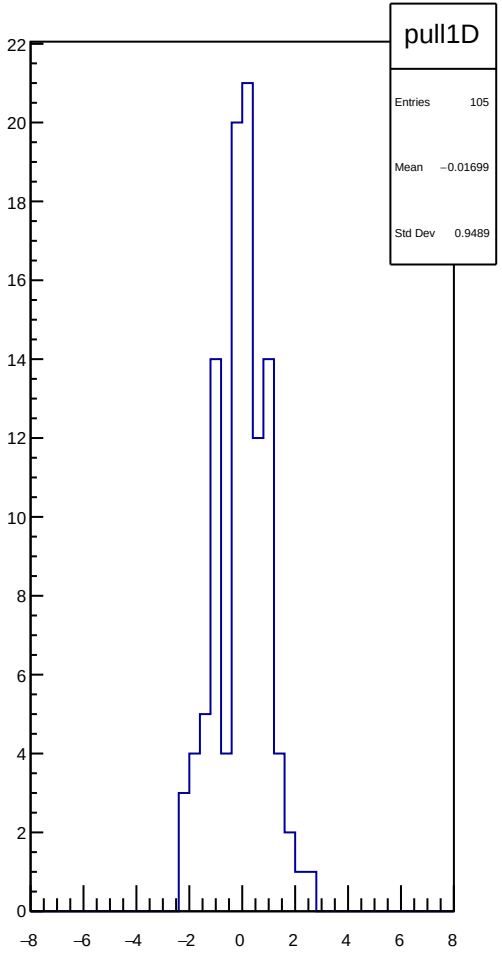

cor_asym_sam_48_avg_rms vs run
χ^2 / ndf 3.026e+04 / 104
p0 166.1 ± 0.117
280
260
240
220
200
180
160
140

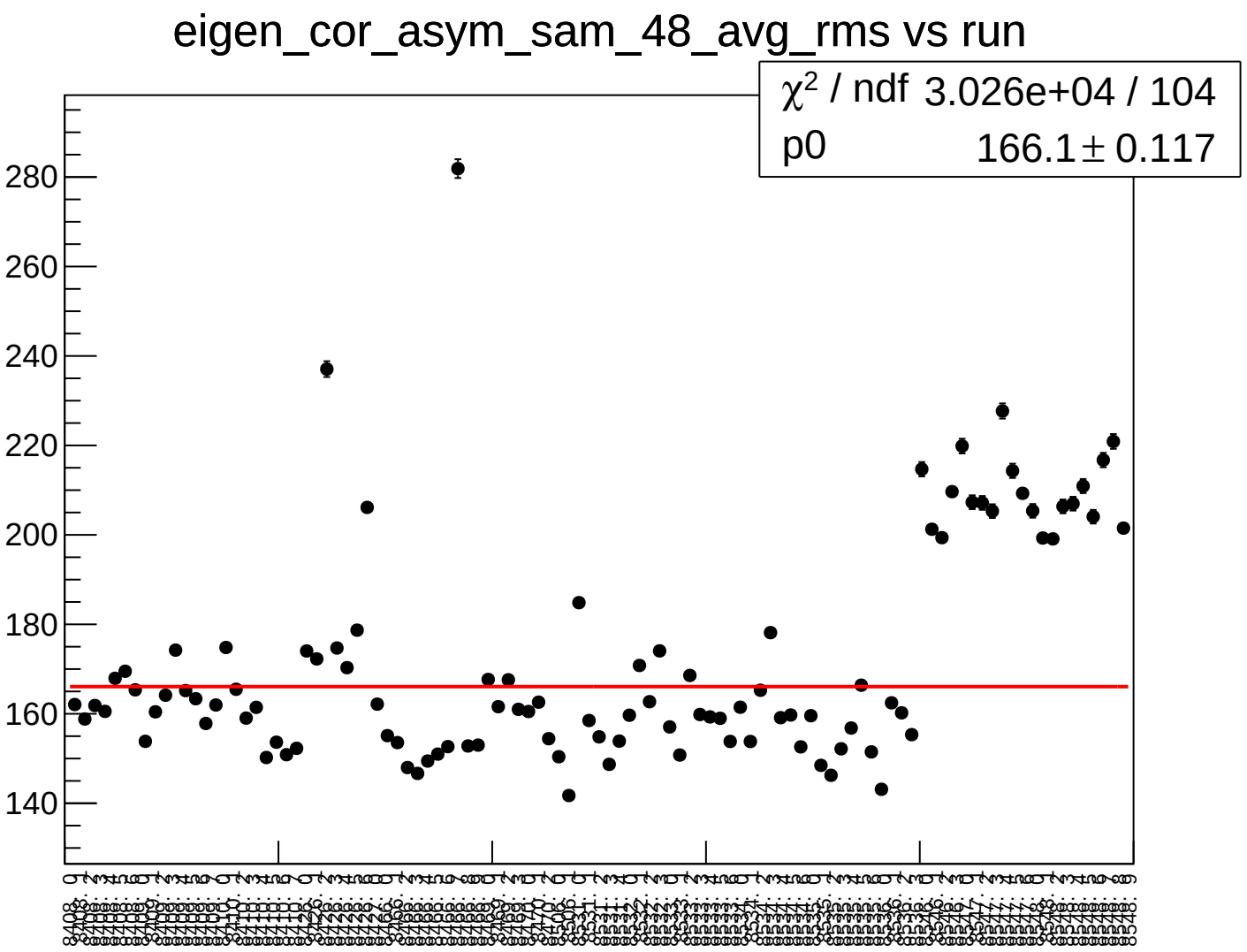

asym_sam_48_avg_cor_correction_mean vs run
×10^3
χ² / ndf 115.6 / 104
p0 −8327 ± 2205
pull
Entries 105
Mean 239.6
Std Dev 0

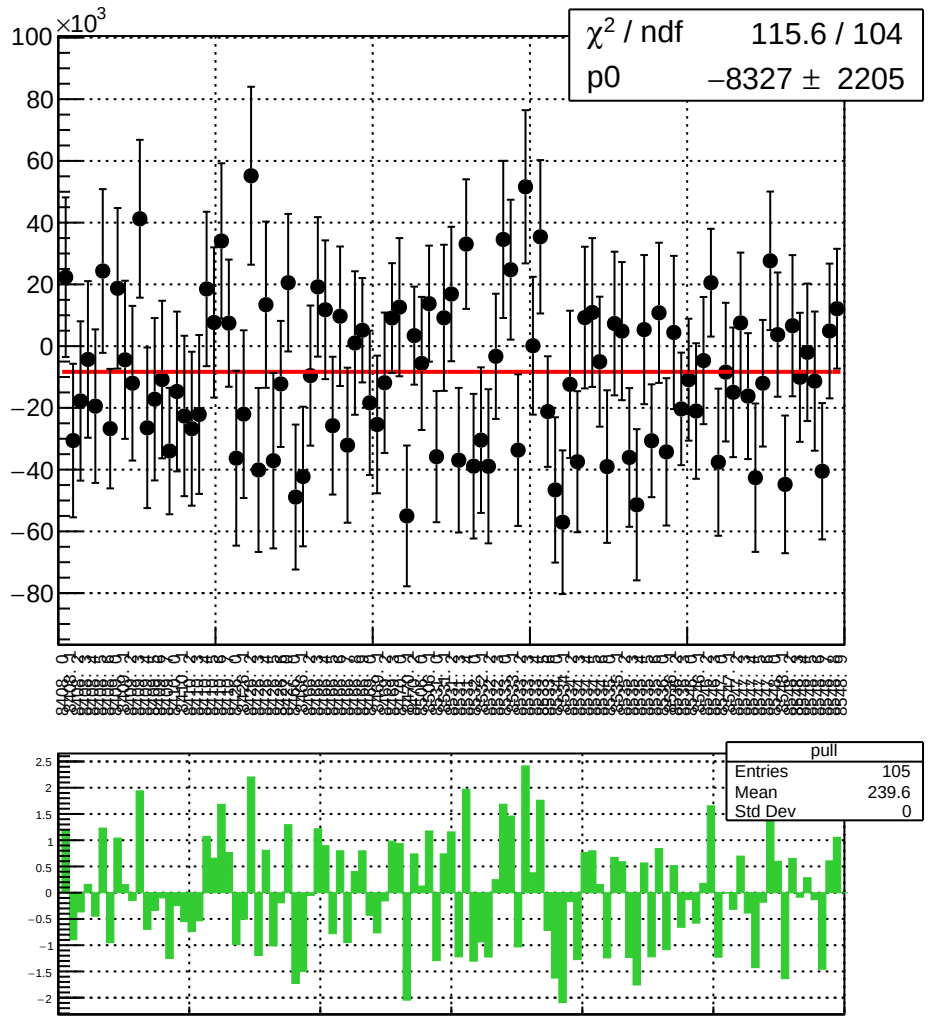

pull1D
Entries 105
Mean −0.008621
Std Dev 1.049

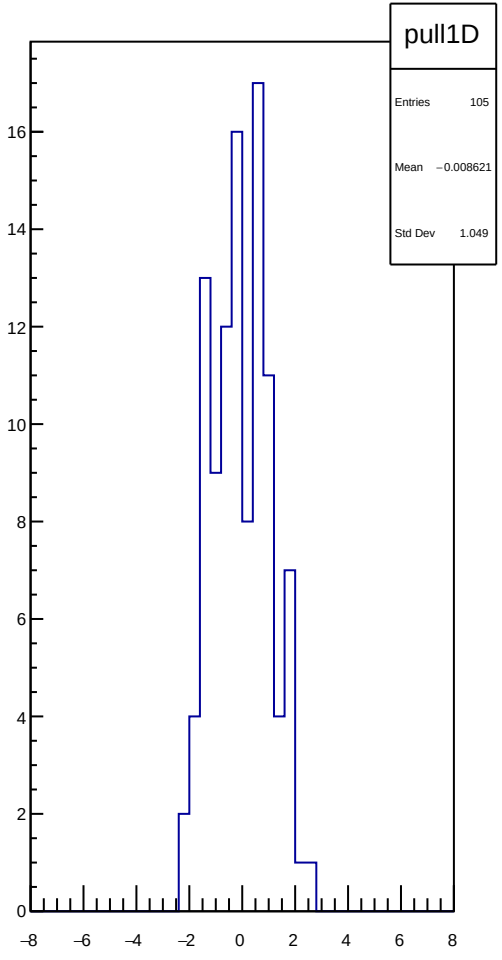

asym_sam_48_avg_cor_correction_rms vs run
χ² / ndf 1.19e+04 / 104
p0 2224 ± 1.559
2800
2600
2400
2200
2000
1800

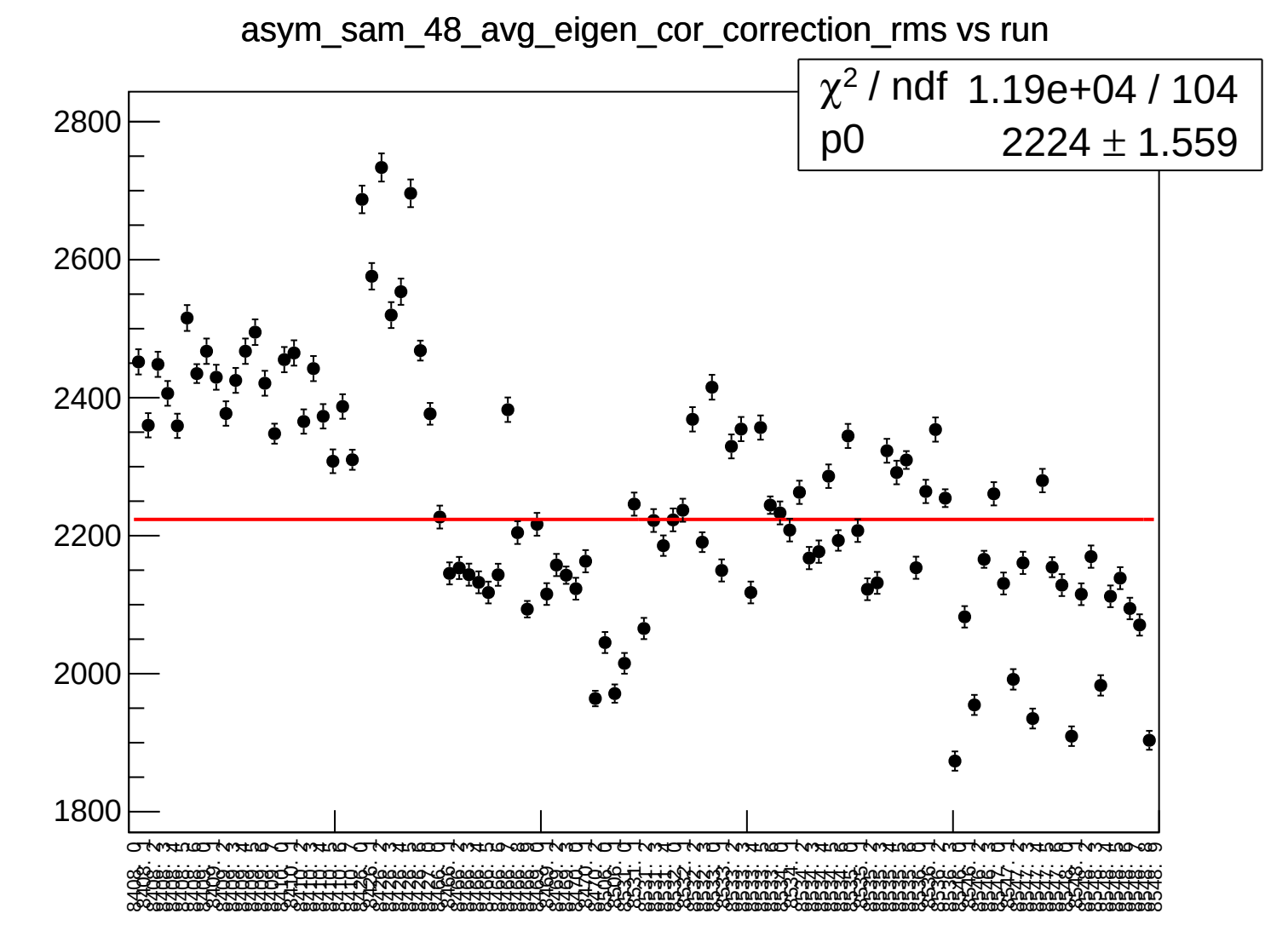

eigen_cor_asym_sam_48_avg_mean vs run
χ² / ndf 94.58 / 104
p0 149.1 ± 165.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 105
Mean 326.2
Std Dev 0
2
1
0
−1
−2

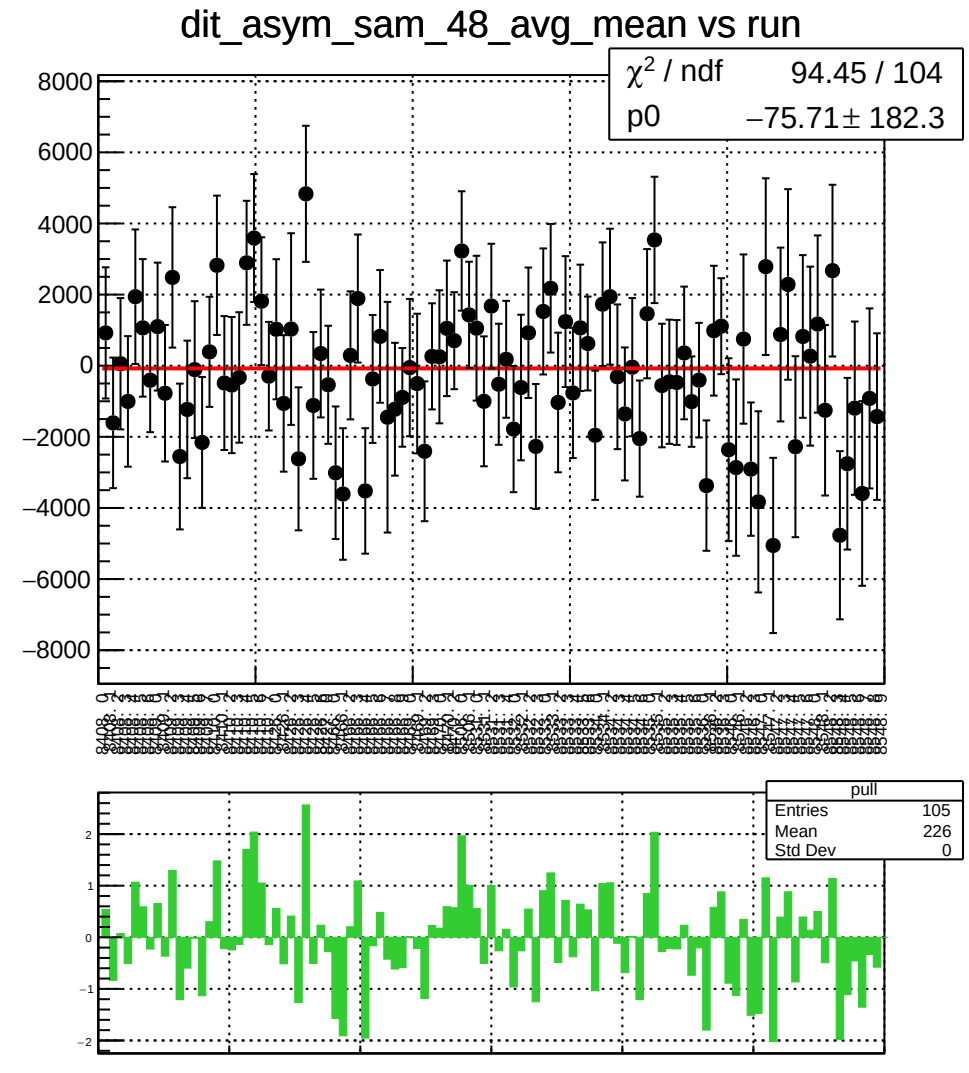

pull1D
Entries 105
Mean −0.01699
Std Dev 0.9489
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

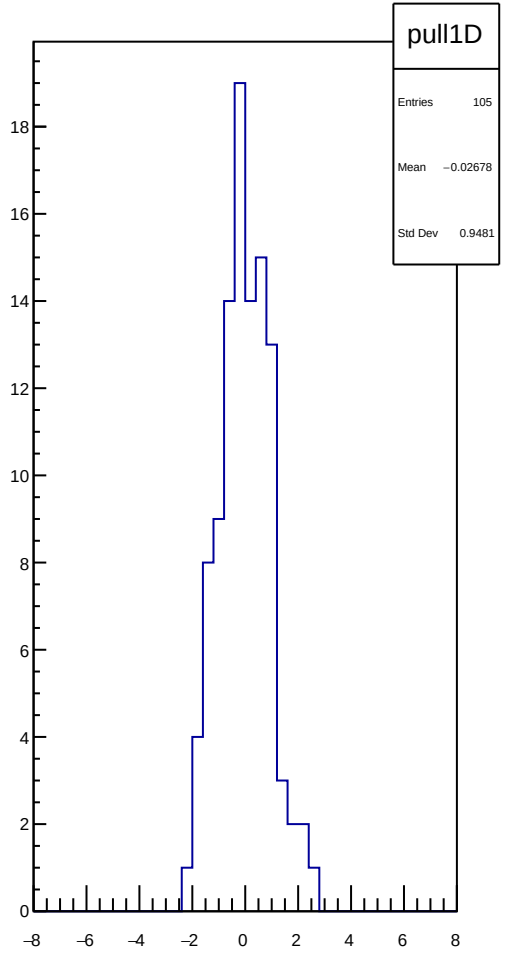

eigen_cor_asym_sam_48_avg_rms vs run
χ² / ndf 3.026e+04 / 104
p0 166.1 ± 0.117
280
260
240
220
200
180
160
140

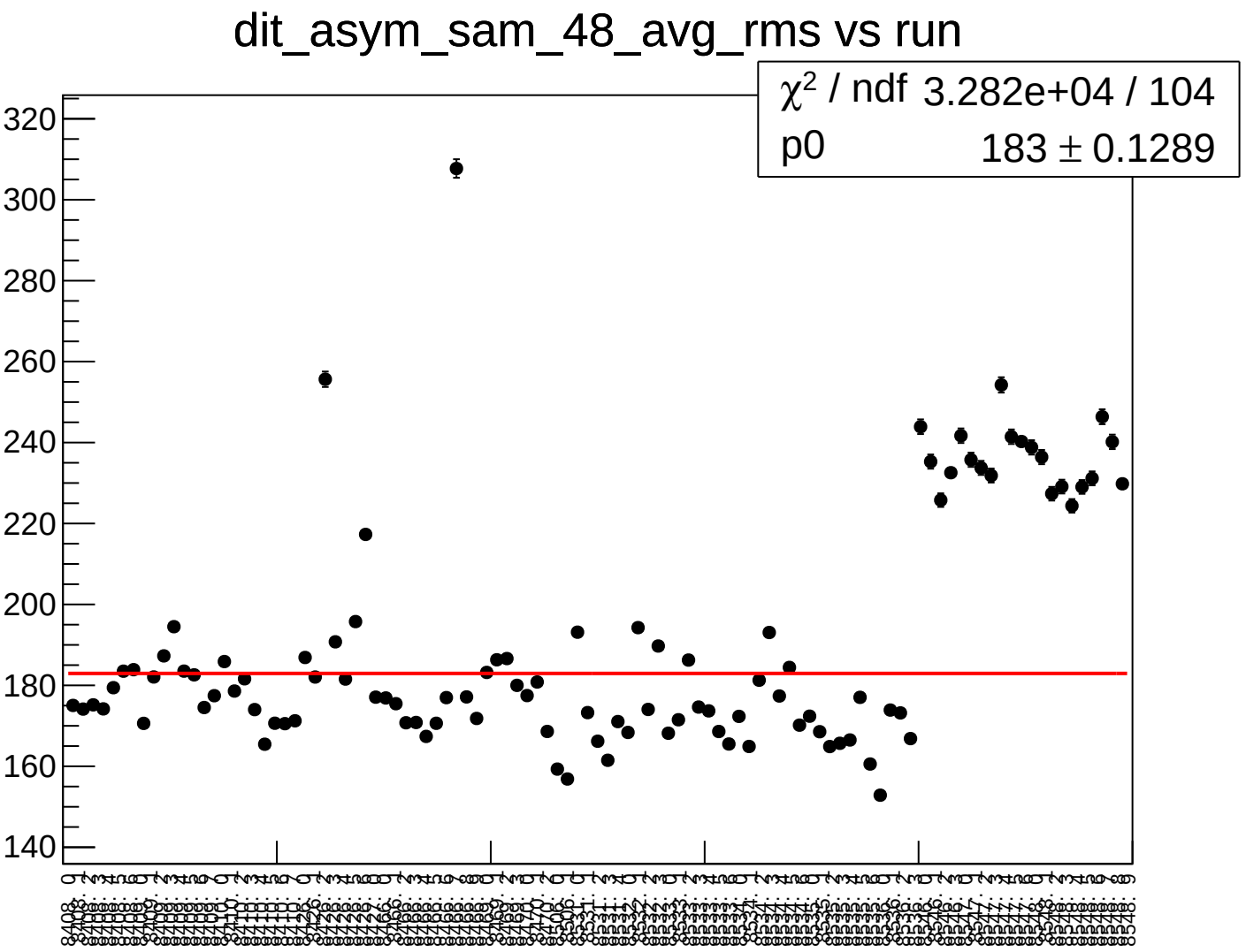

asym_sam_48_avg_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 115.6 / 104
p0 −8327 ± 2205
pull
Entries 105
Mean 239.6
Std Dev 0

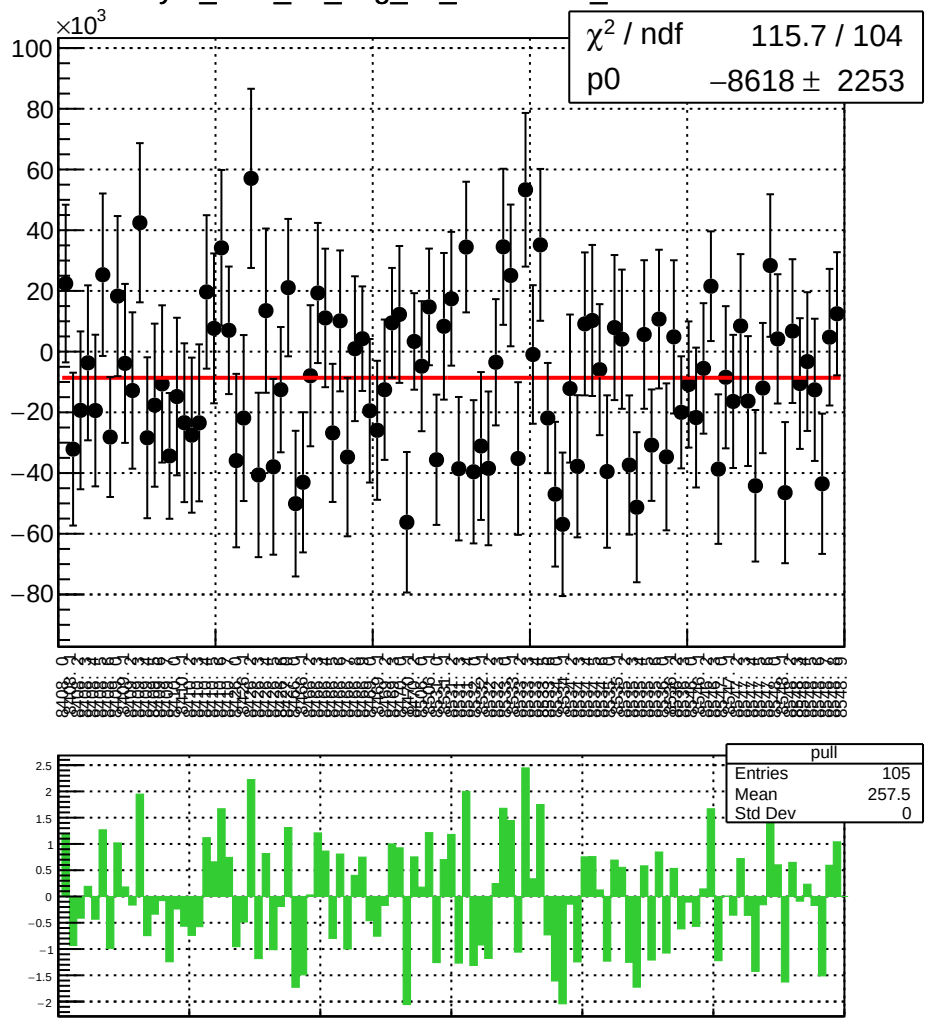

pull1D
Entries 105
Mean −0.008621
Std Dev 1.049

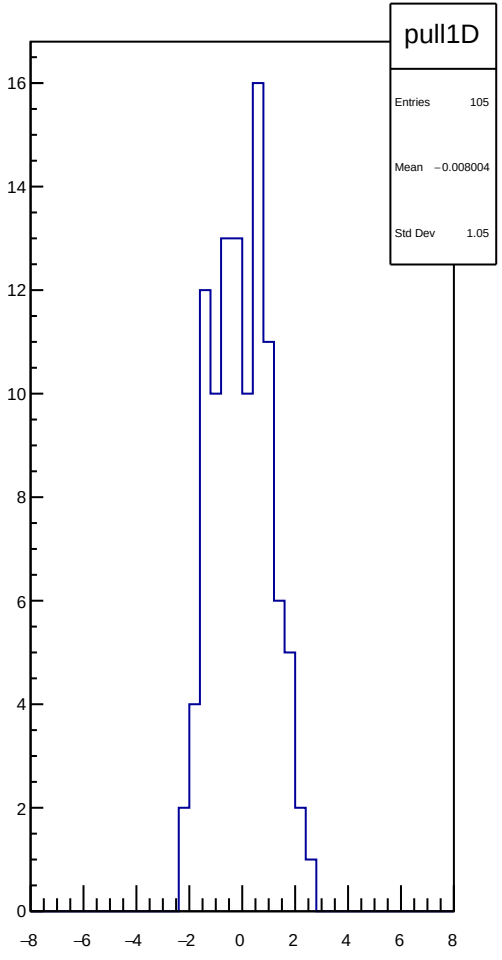

asym_sam_48_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.19e+04 / 104
p0 2224 ± 1.559
2800
2600
2400
2200
2000
1800

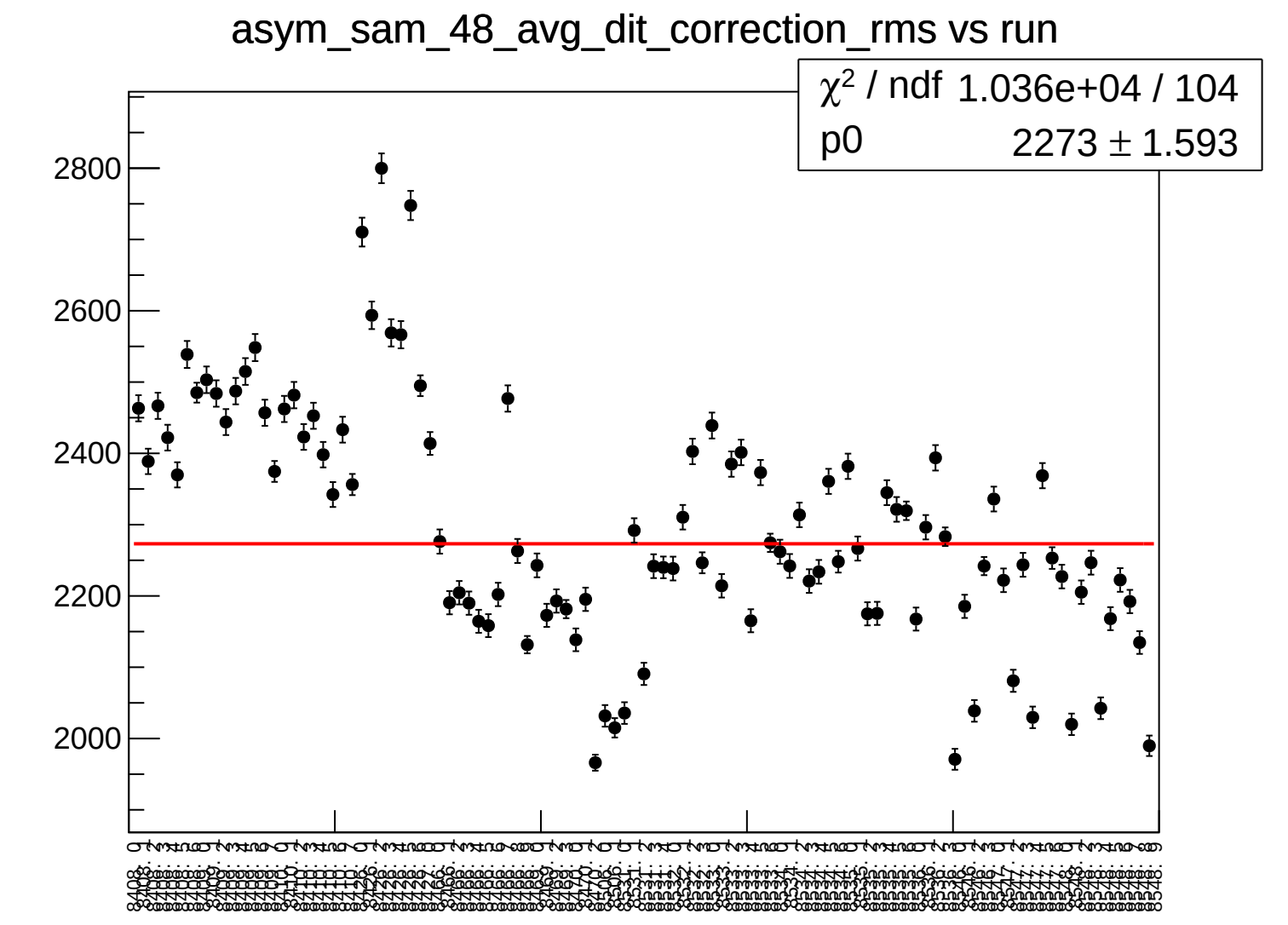

dit_asym_sam_48_avg_mean vs run
χ² / ndf 94.45 / 104
p0 −75.71 ± 182.3
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 105
Mean 226
Std Dev 0
2
1
0
−1
−2

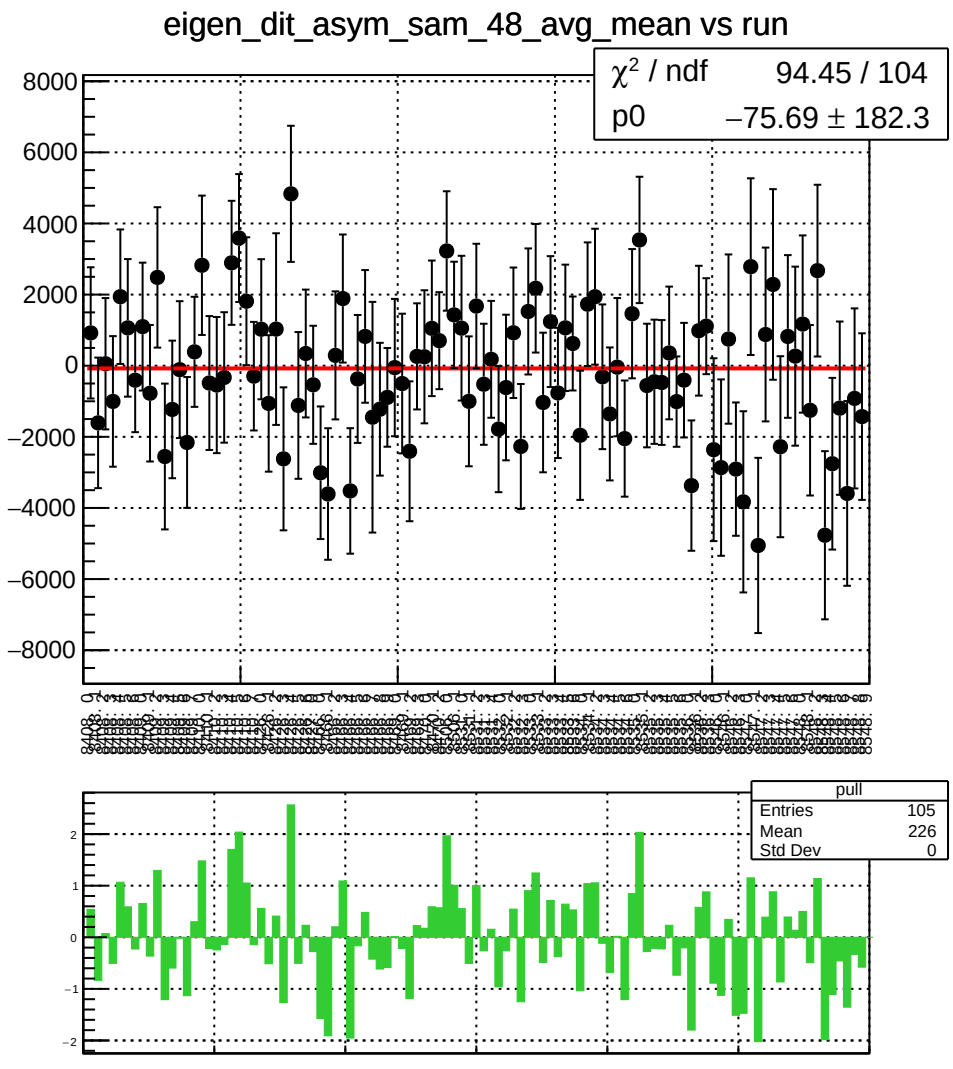

pull1D
Entries 105
Mean −0.02678
Std Dev 0.9481
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

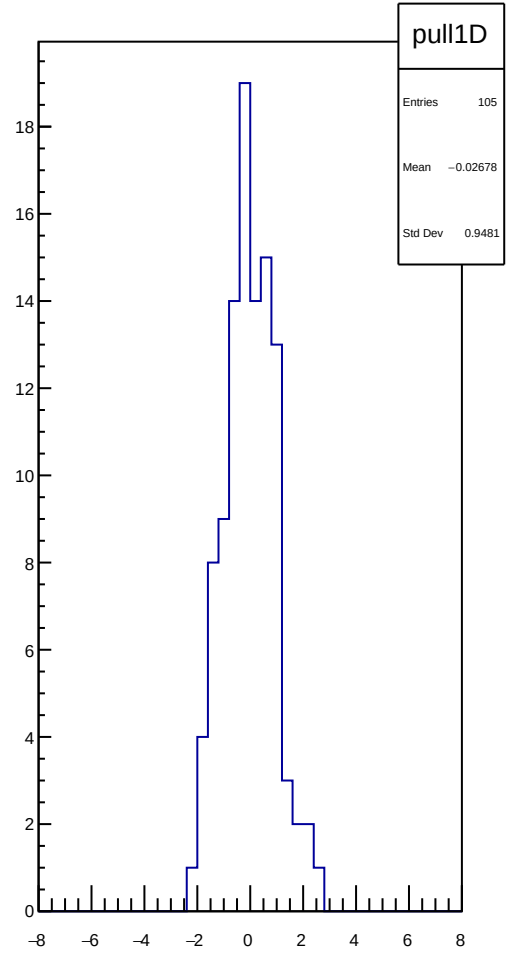

dit_asym_sam_48_avg_rms vs run
χ² / ndf 3.282e+04 / 104
p0 183 ± 0.1289
320
300
280
260
240
220
200
180
160
140

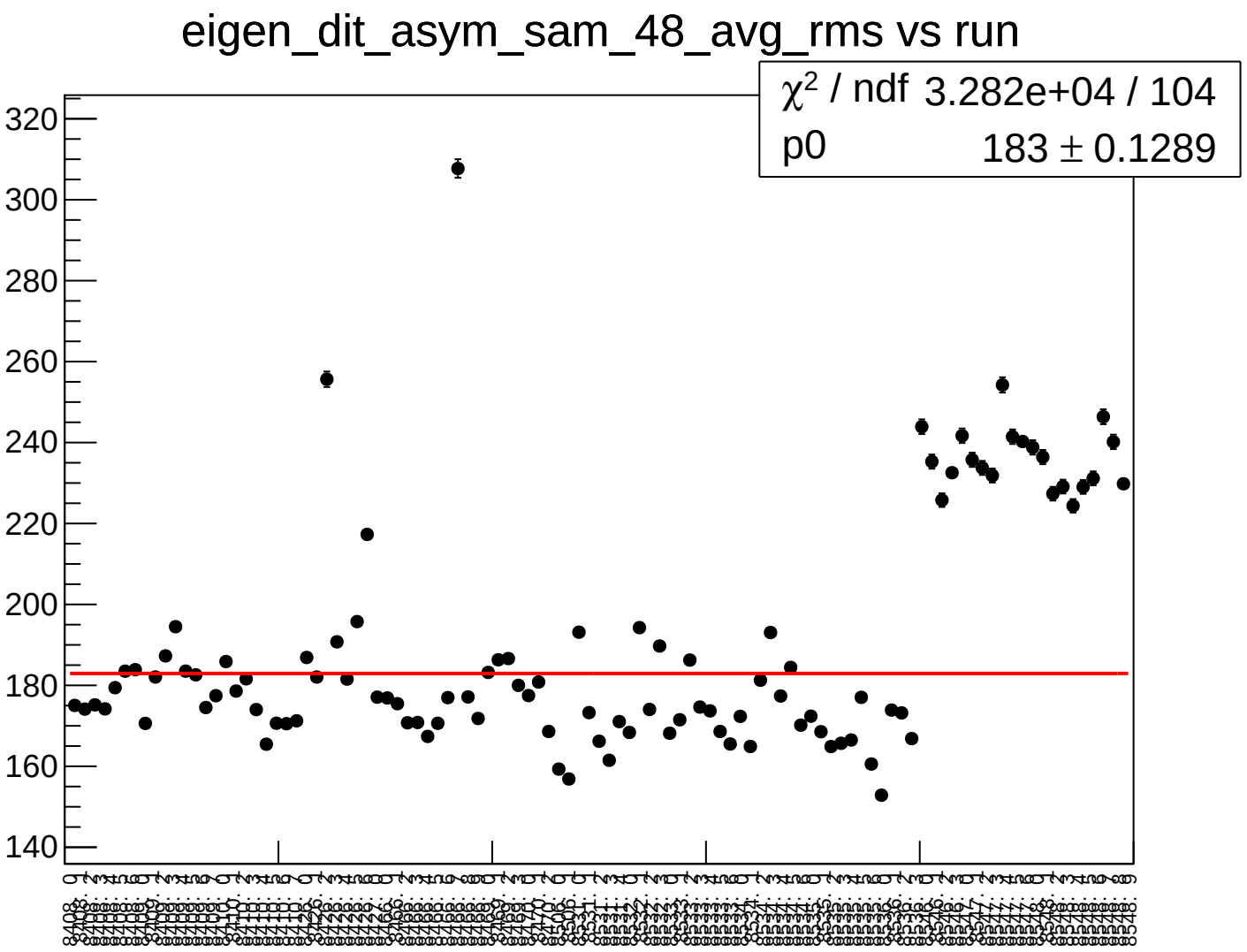

asym_sam_48_avg_dit_correction_mean vs run
×10^3
χ^2 / ndf 115.7 / 104
p0 −8618 ± 2253
pull
Entries 105
Mean 257.5
Std Dev 0

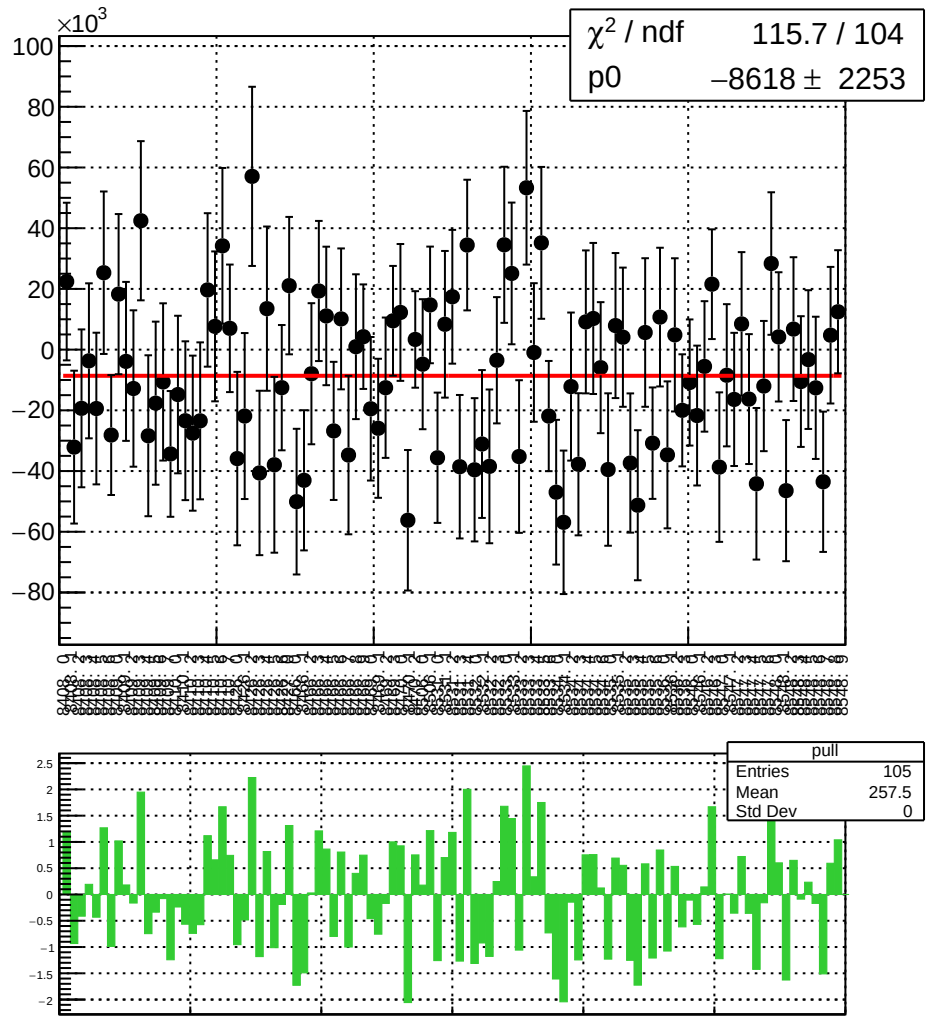

pull1D
Entries 105
Mean −0.008004
Std Dev 1.05

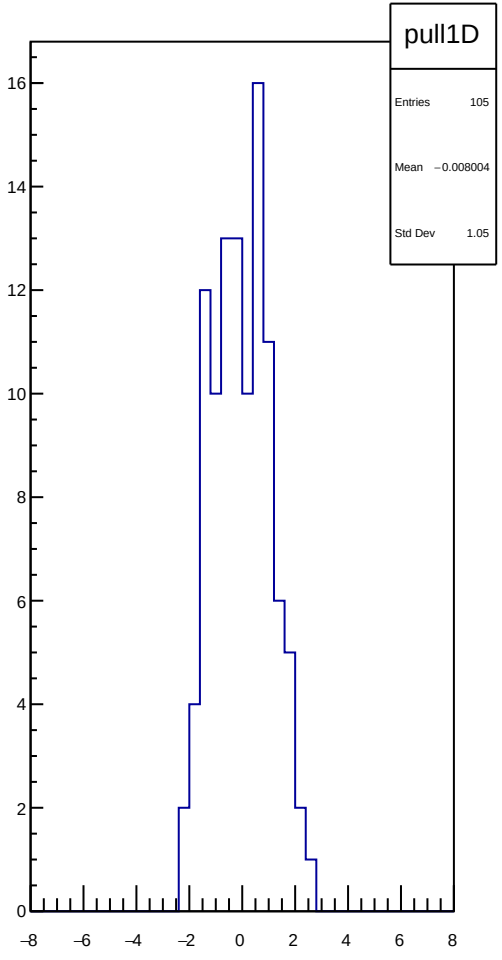

asym_sam_48_avg_dit_correction_rms vs run
χ² / ndf 1.036e+04 / 104
p0 2273 ± 1.593
2800
2600
2400
2200
2000

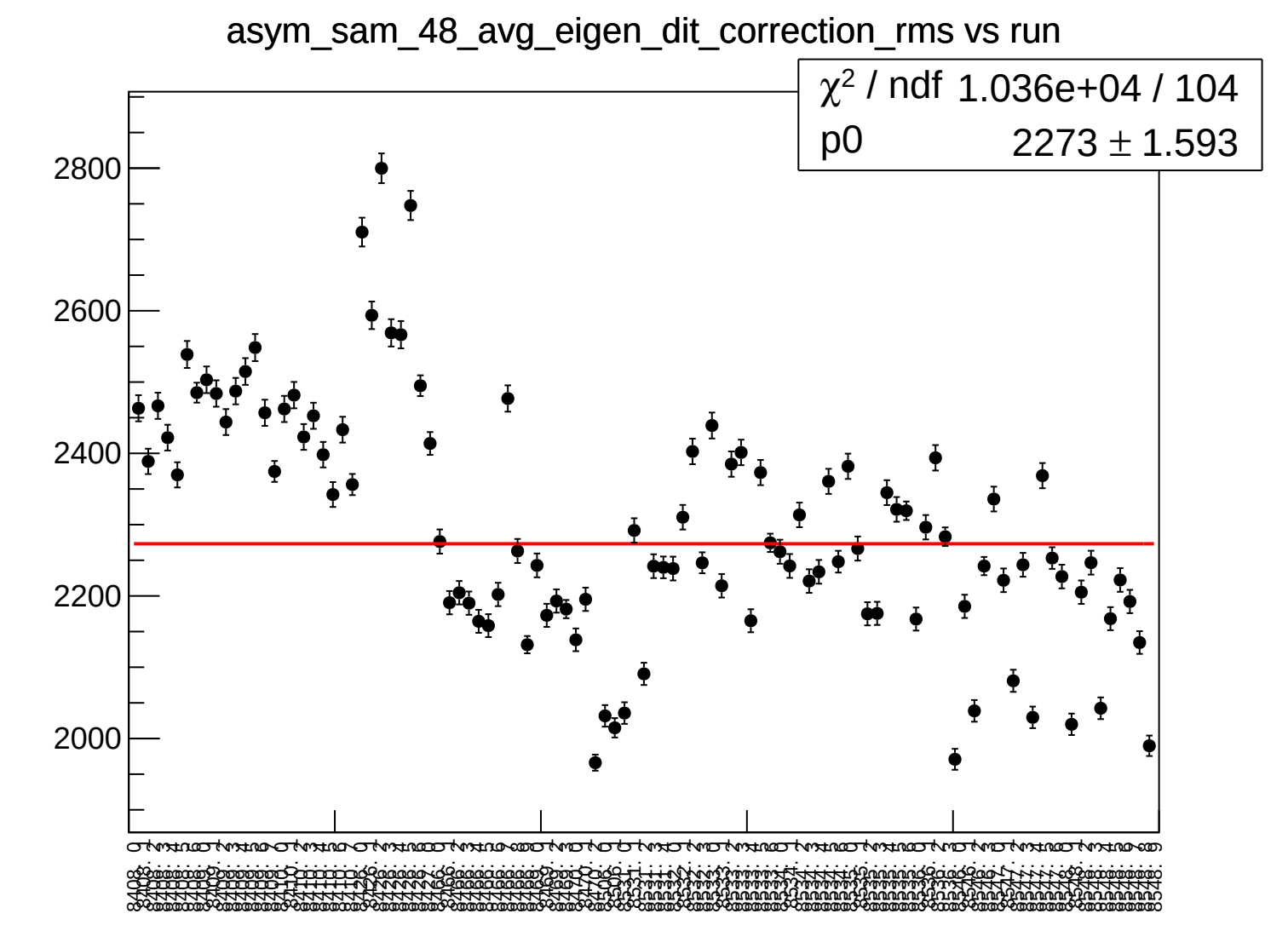

eigen_dit_asym_sam_48_avg_mean vs run
χ² / ndf 94.45 / 104
p0 −75.69 ± 182.3
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 105
Mean 226
Std Dev 0
2
1
0
−1
−2

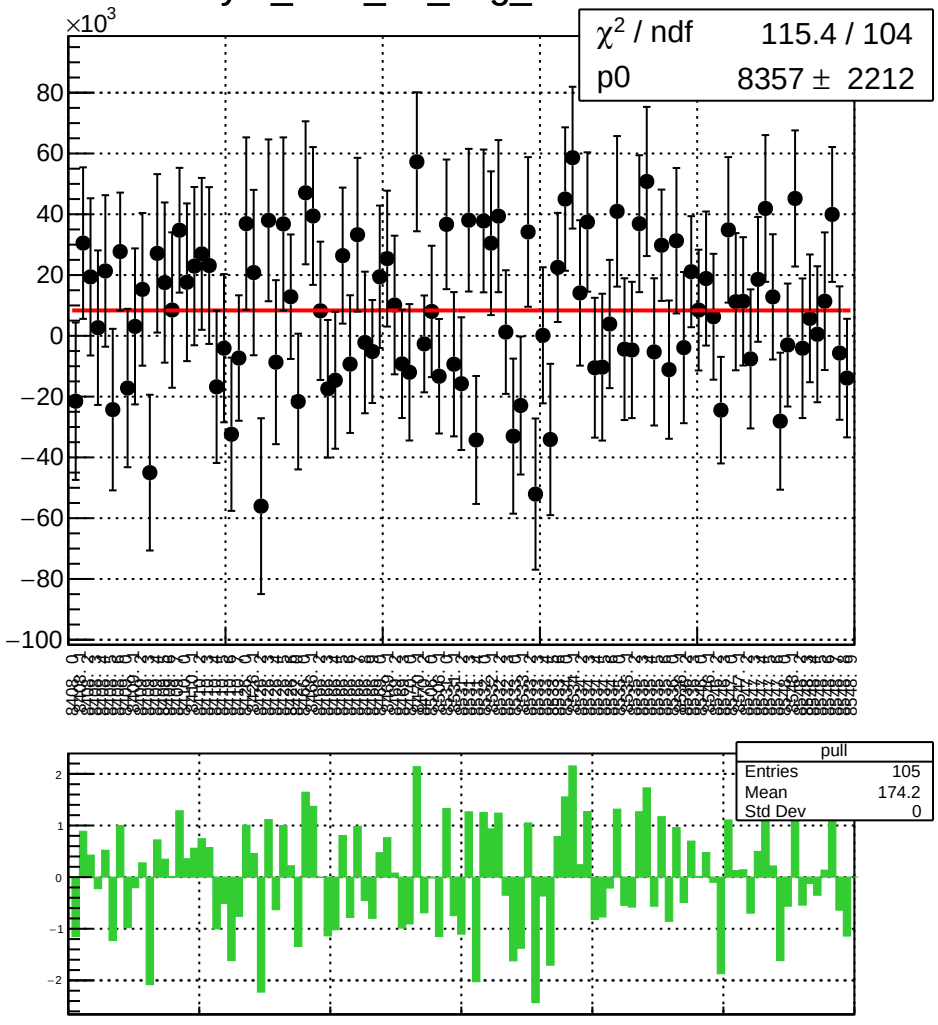

pull1D
Entries 105
Mean −0.02678
Std Dev 0.9481
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

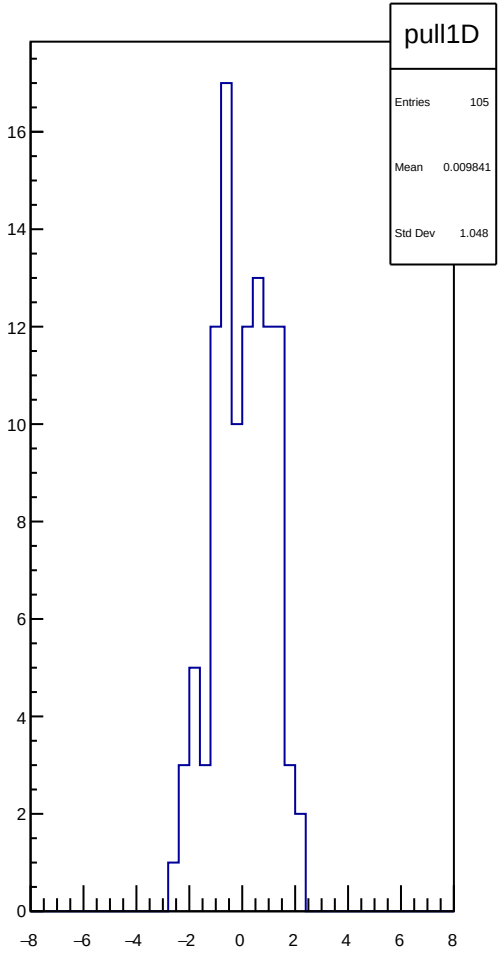

eigen_dit_asym_sam_48_avg_rms vs run
χ² / ndf 3.282e+04 / 104
p0 183 ± 0.1289
320
300
280
260
240
220
200
180
160
140

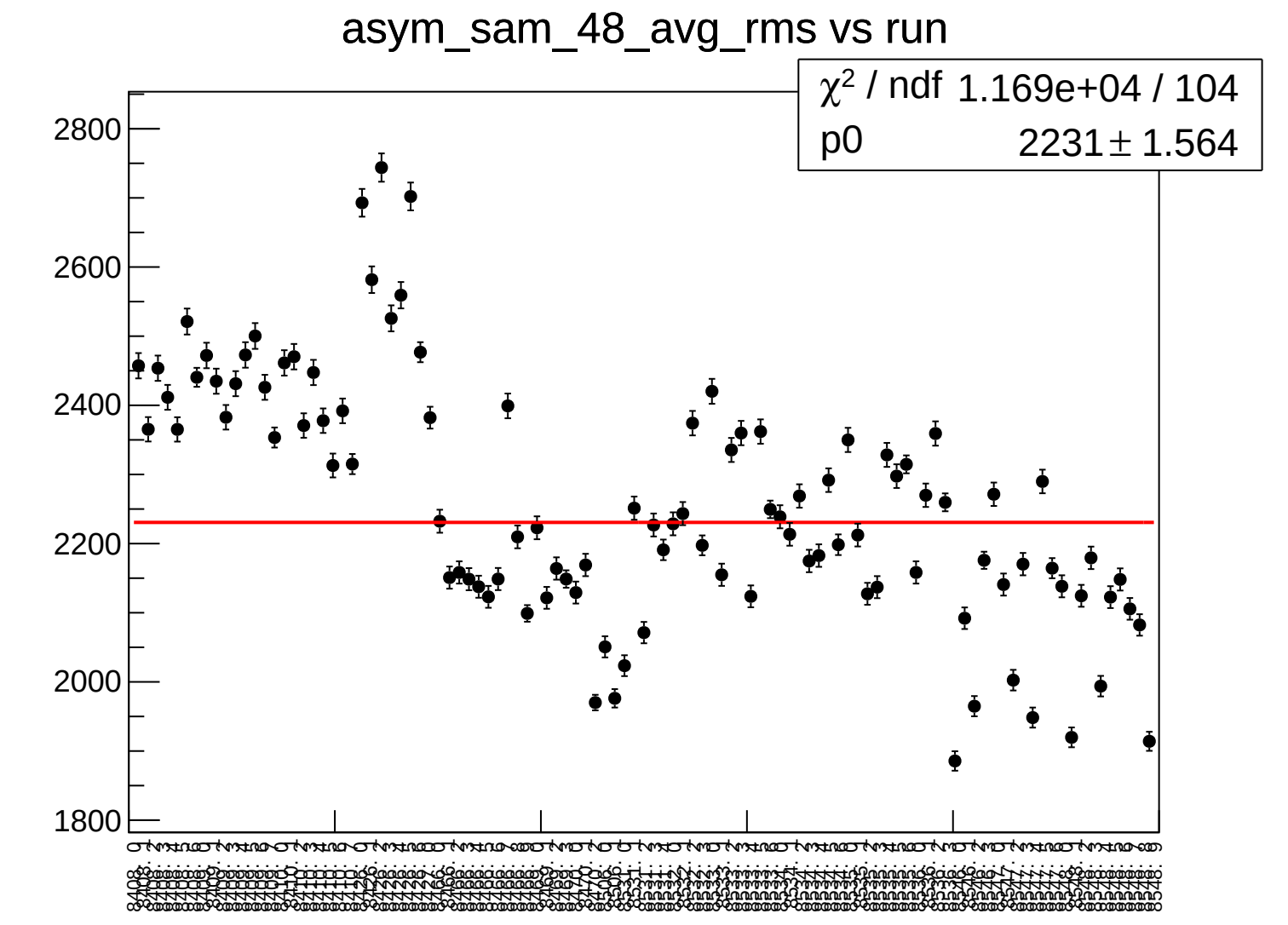

asym_sam_48_avg_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 115.7 / 104
p0 −8618 ± 2253
pull
Entries 105
Mean 257.5
Std Dev 0

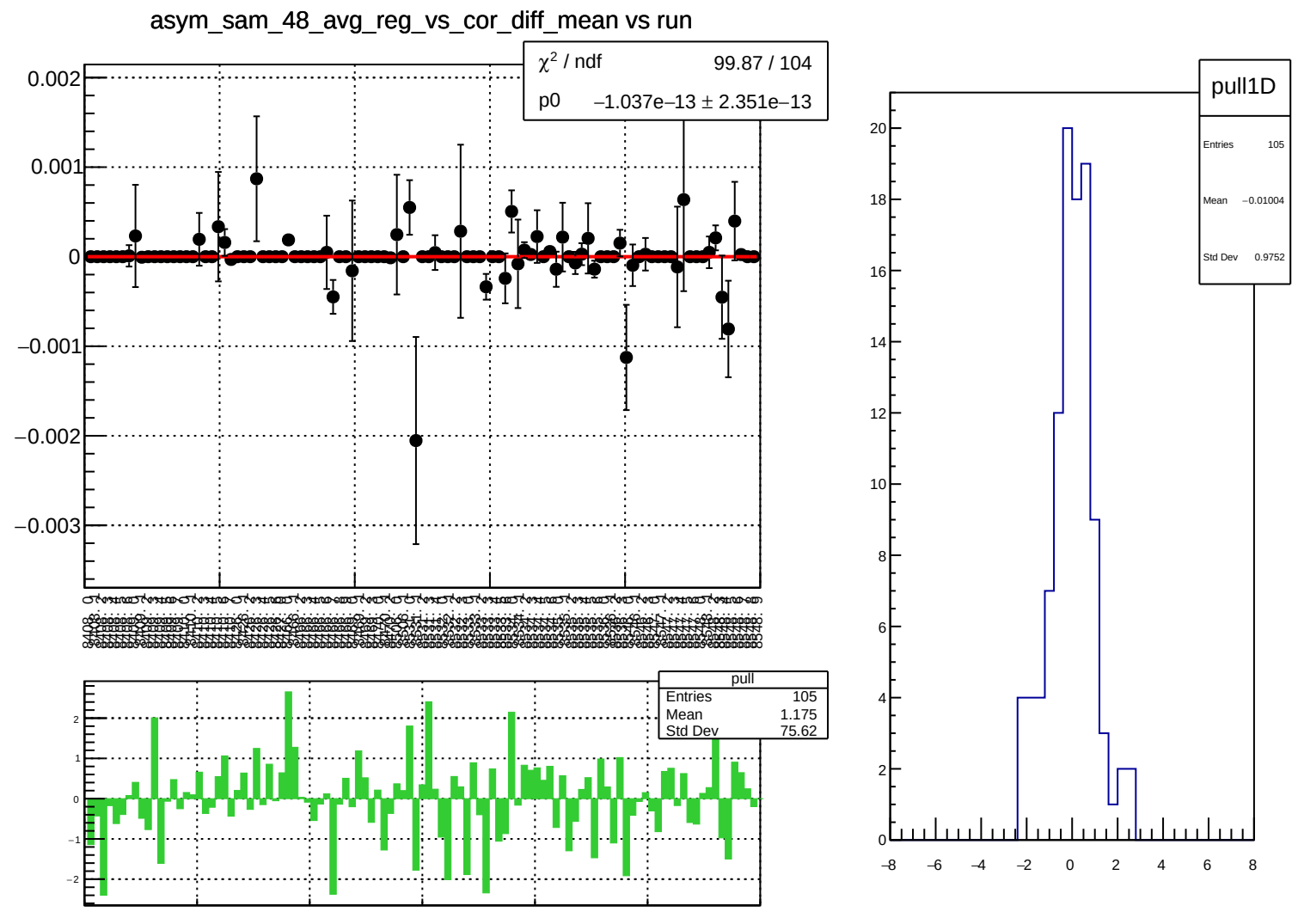

pull1D
Entries 105
Mean −0.008004
Std Dev 1.05

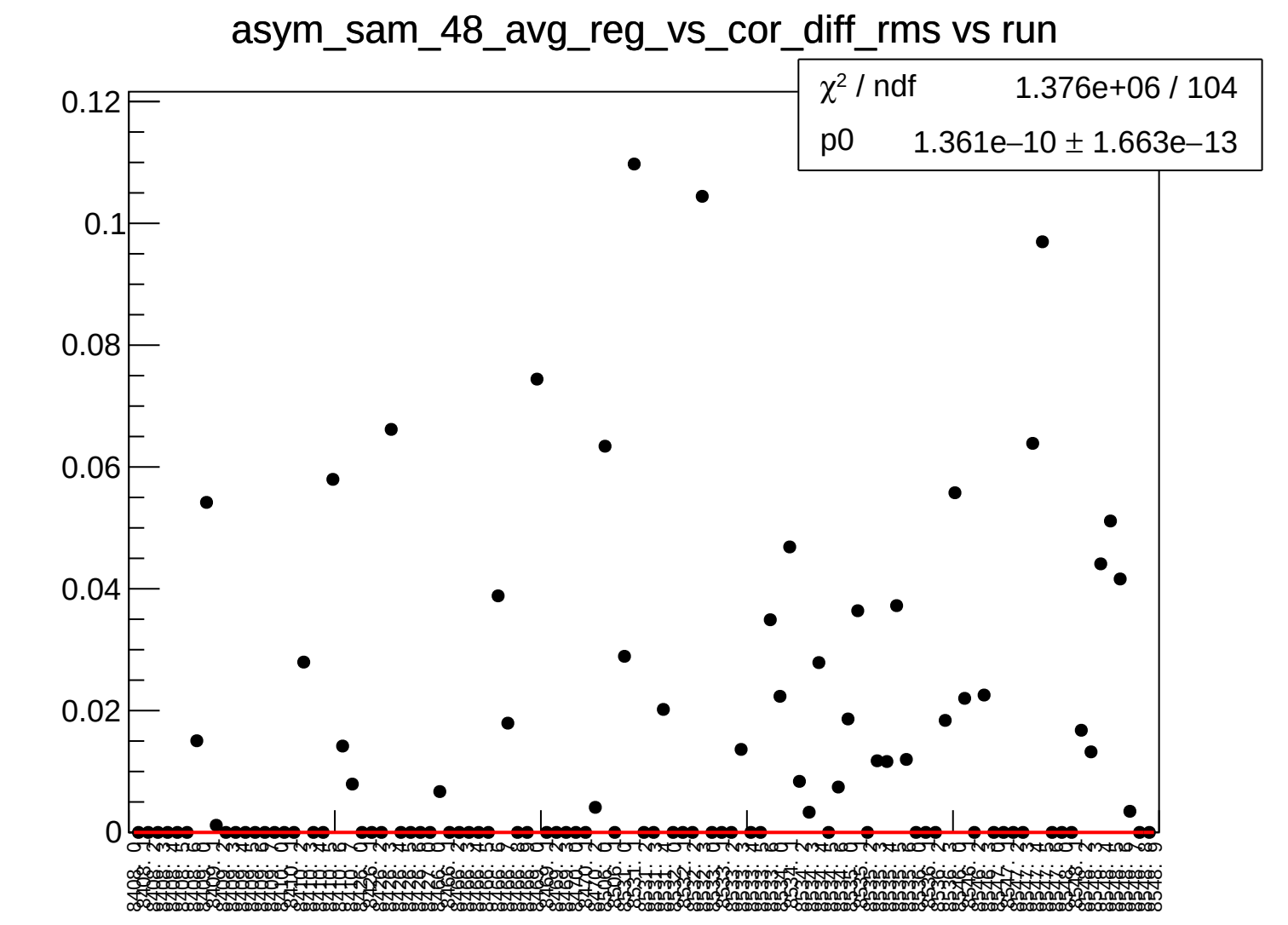

asym_sam_48_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.036e+04 / 104
p0 2273 ± 1.593
2800
2600
2400
2200
2000

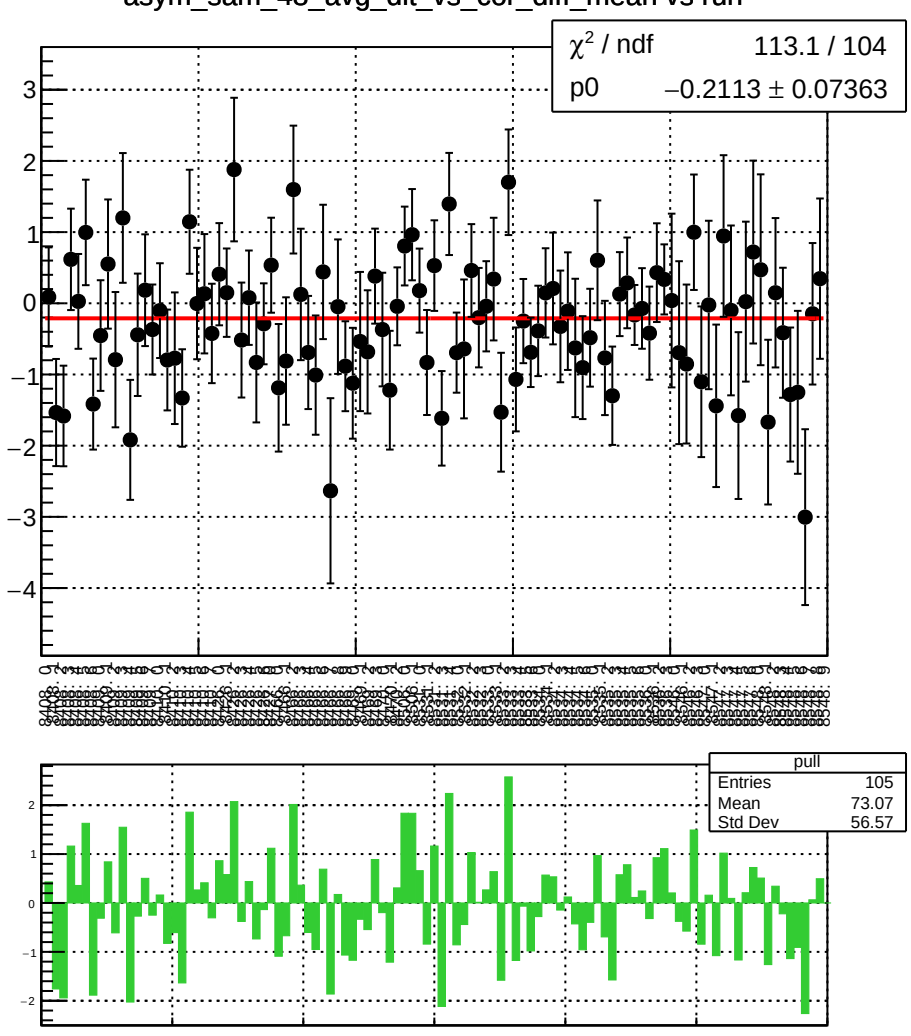

asym_sam_48_avg_mean vs run
×10^3
χ^2 / ndf 115.4 / 104
p0 8357 ± 2212
pull
Entries 105
Mean 174.2
Std Dev 0

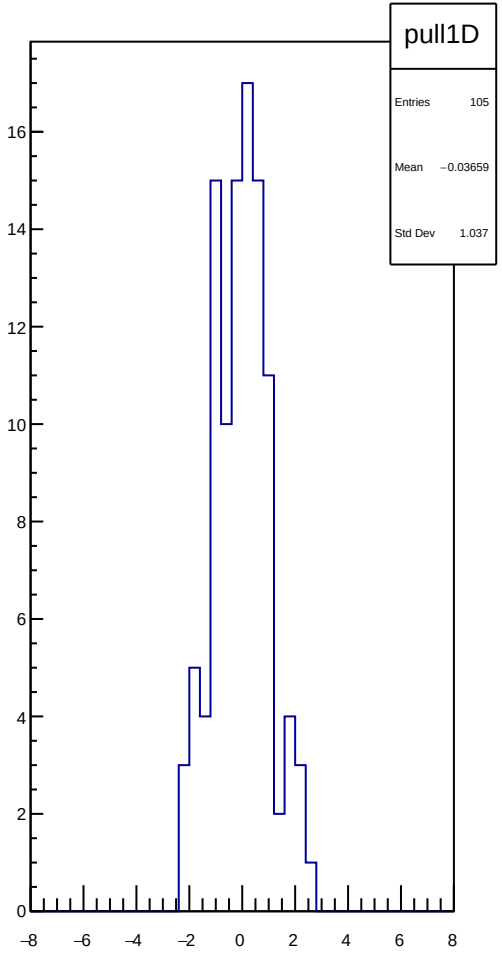

pull1D
Entries 105
Mean 0.009841
Std Dev 1.048

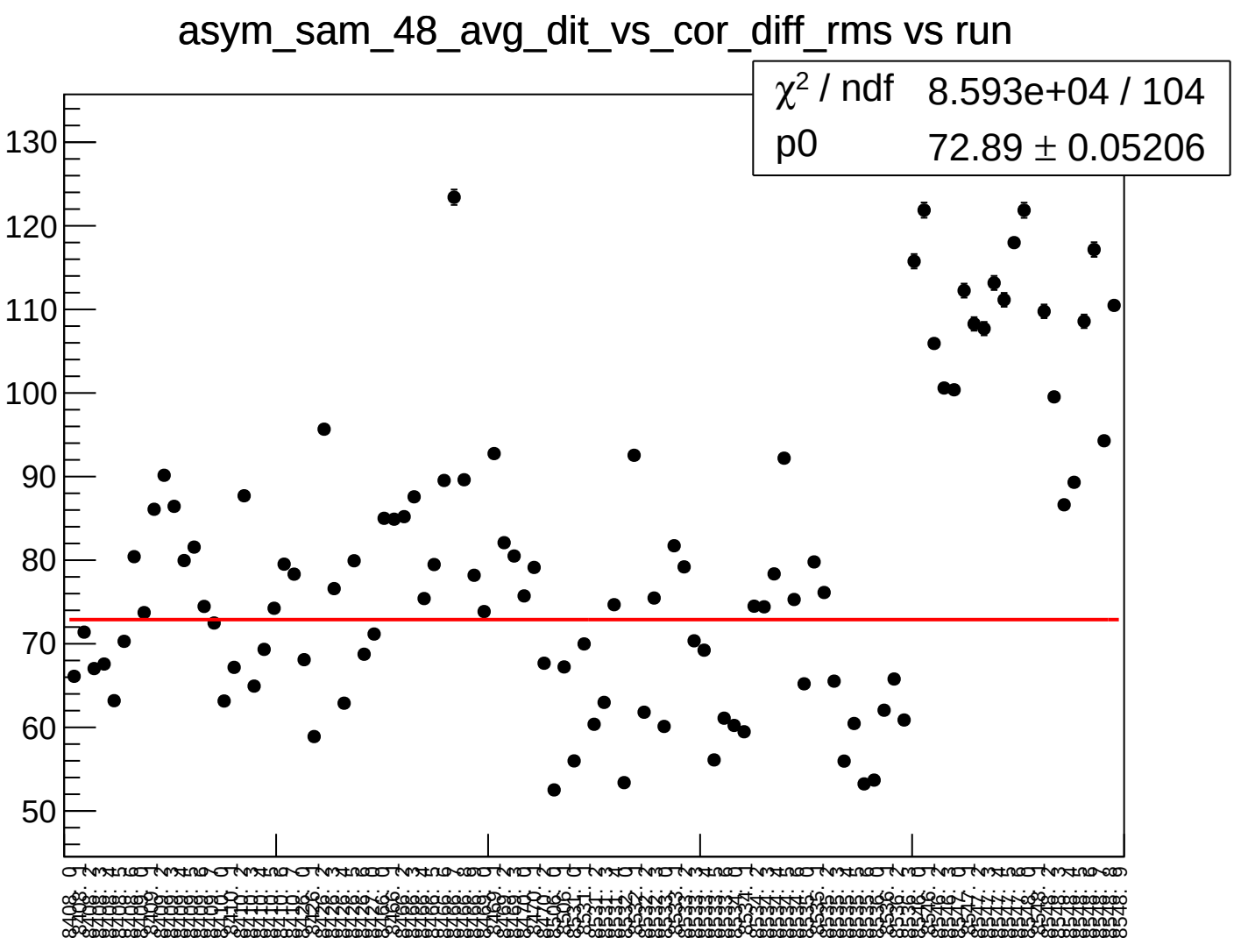

asym_sam_48_avg_rms vs run
χ² / ndf 1.169e+04 / 104
p0 2231 ± 1.564
2800
2600
2400
2200
2000
1800

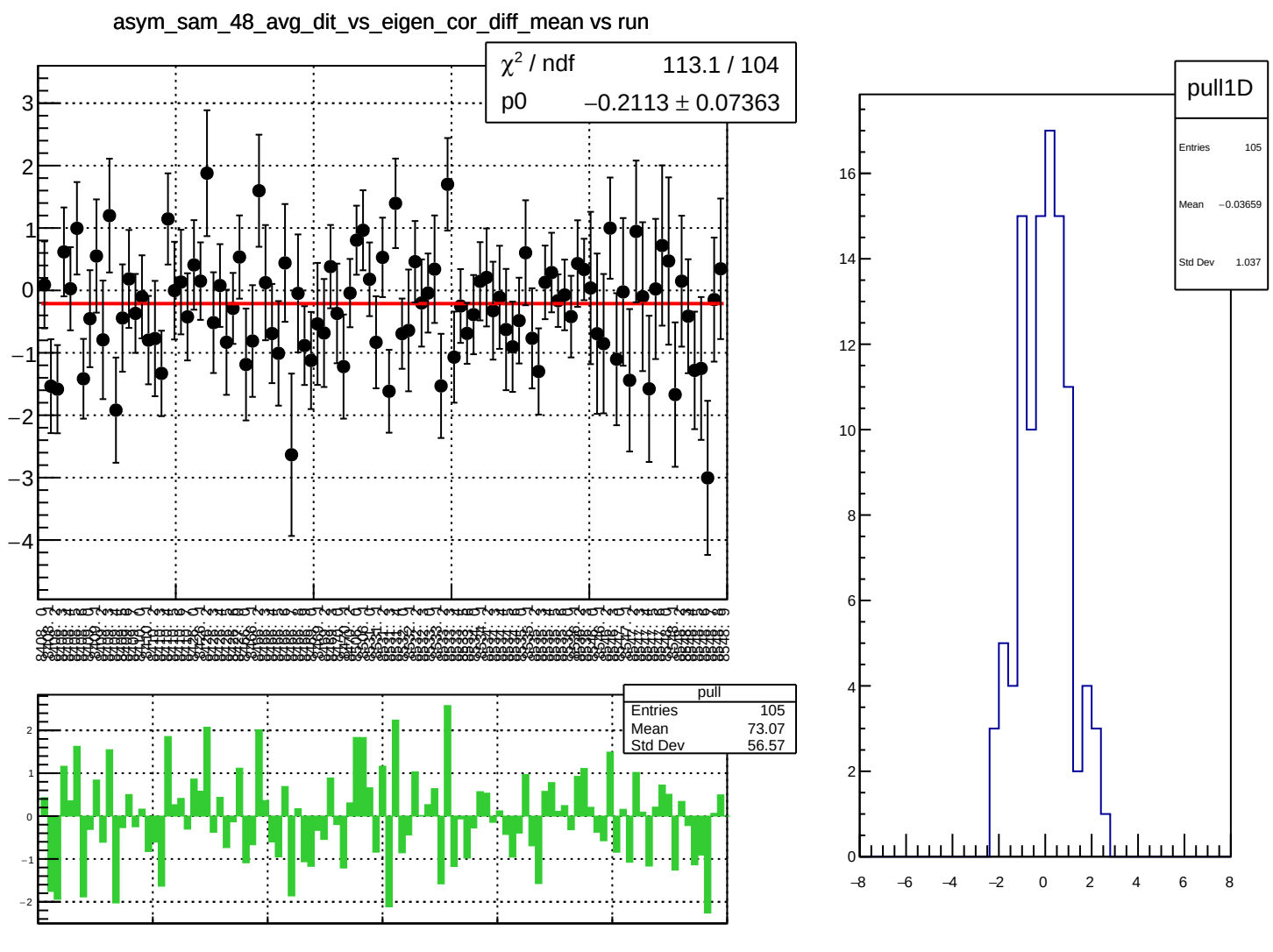

asym_sam_48_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 99.87 / 104
p0 −1.037e−13 ± 2.351e−13
0.002
0.001
0
−0.001
−0.002
−0.003
pull
Entries 105
Mean 1.175
Std Dev 75.62
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.01004
Std Dev 0.9752
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

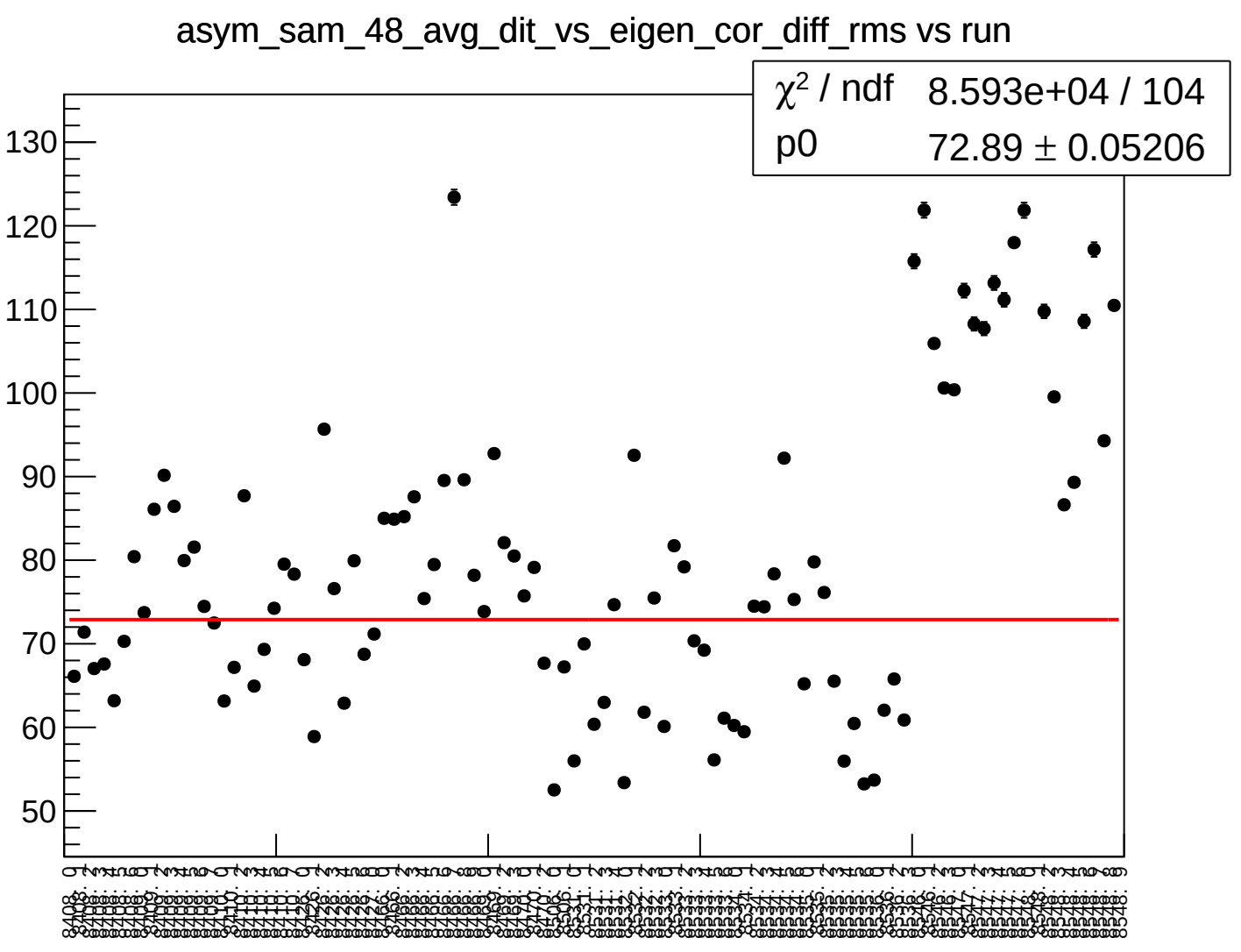

asym_sam_48_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.376e+06 / 104
p0 1.361e−10 ± 1.663e−13
0.12
0.1
0.08
0.06
0.04
0.02
0

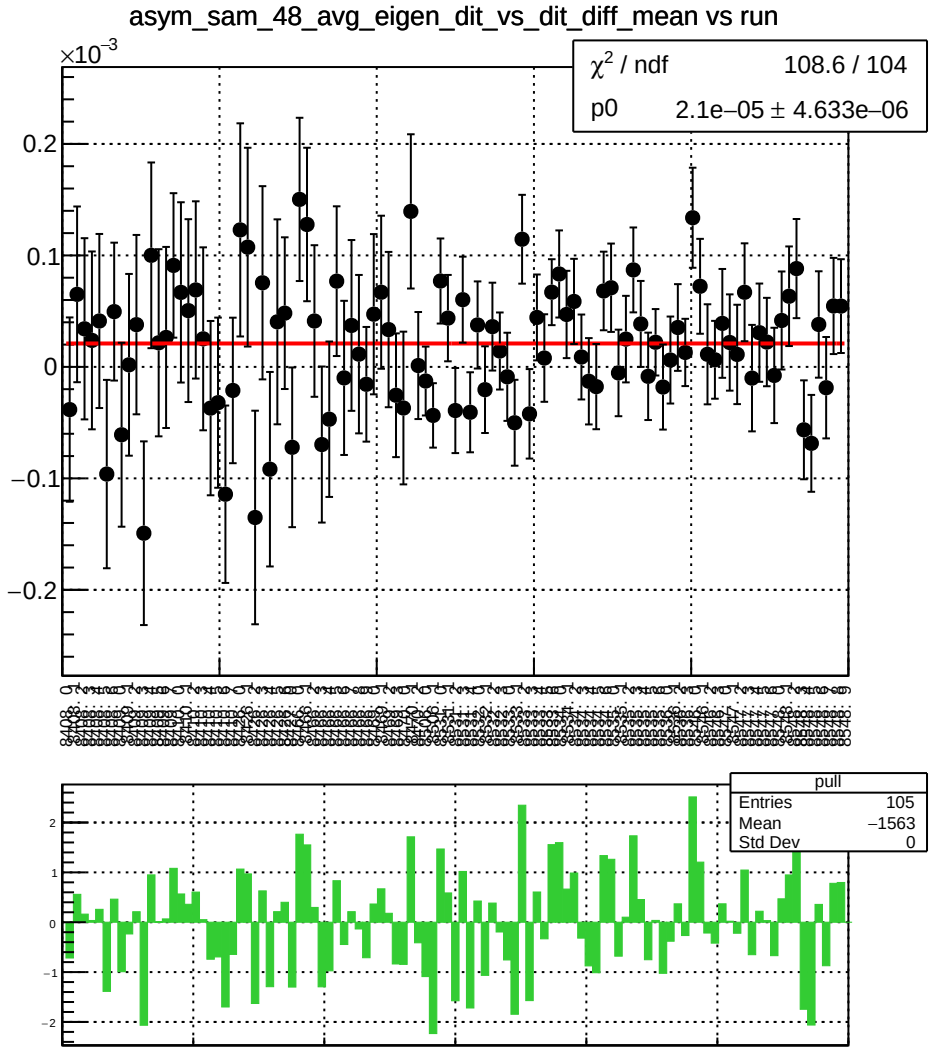

asym_sam_48_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 113.1 / 104
p0 −0.2113 ± 0.07363
pull
Entries 105
Mean 73.07
Std Dev 56.57

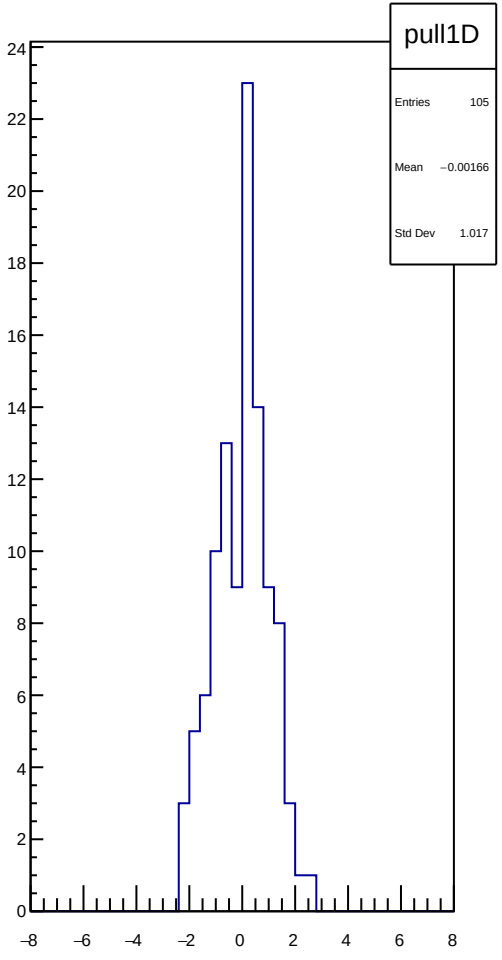

pull1D
Entries 105
Mean −0.03659
Std Dev 1.037

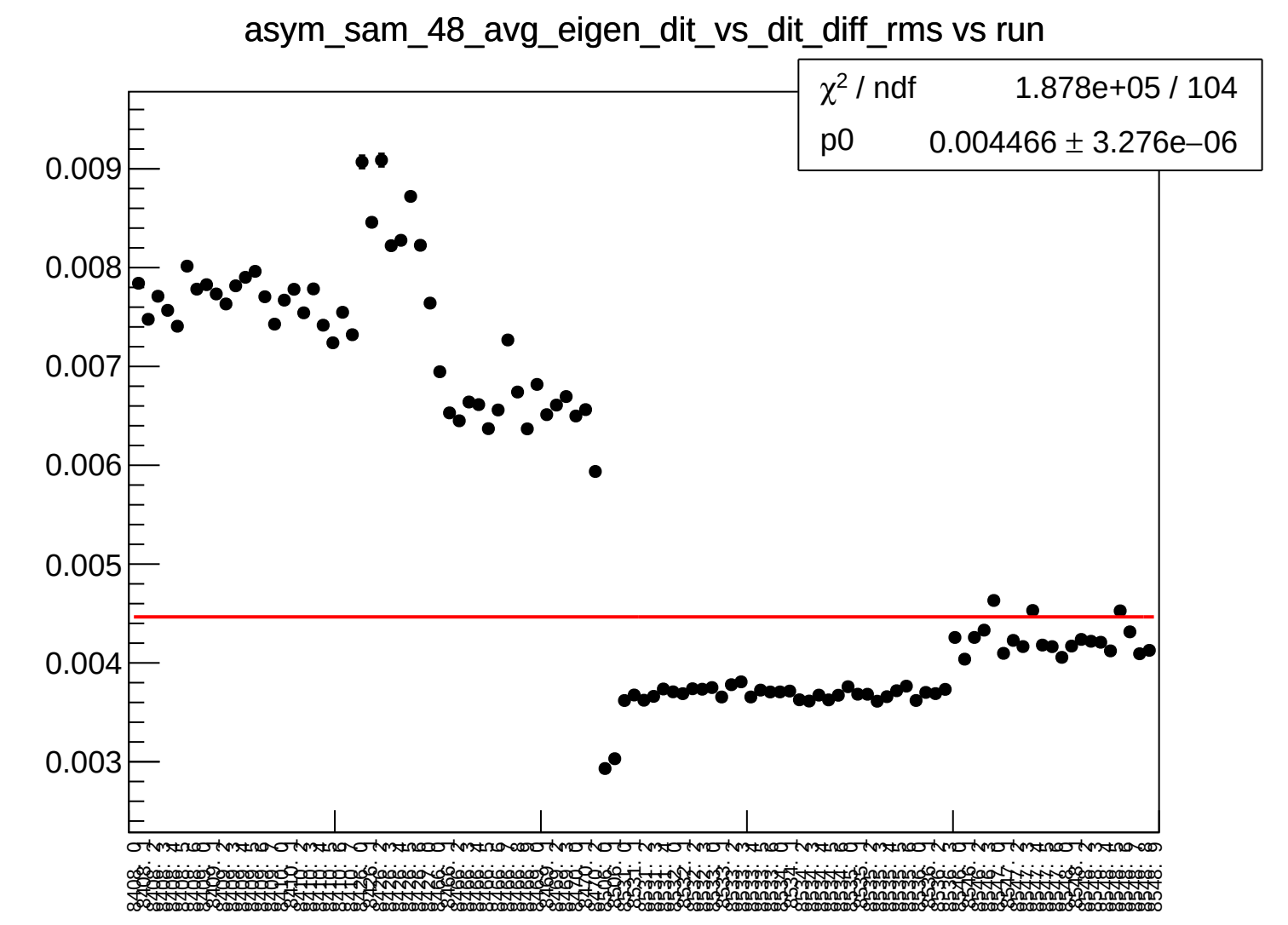

asym_sam_48_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.593e+04 / 104
p0 72.89 ± 0.05206
130
120
110
100
90
80
70
60
50

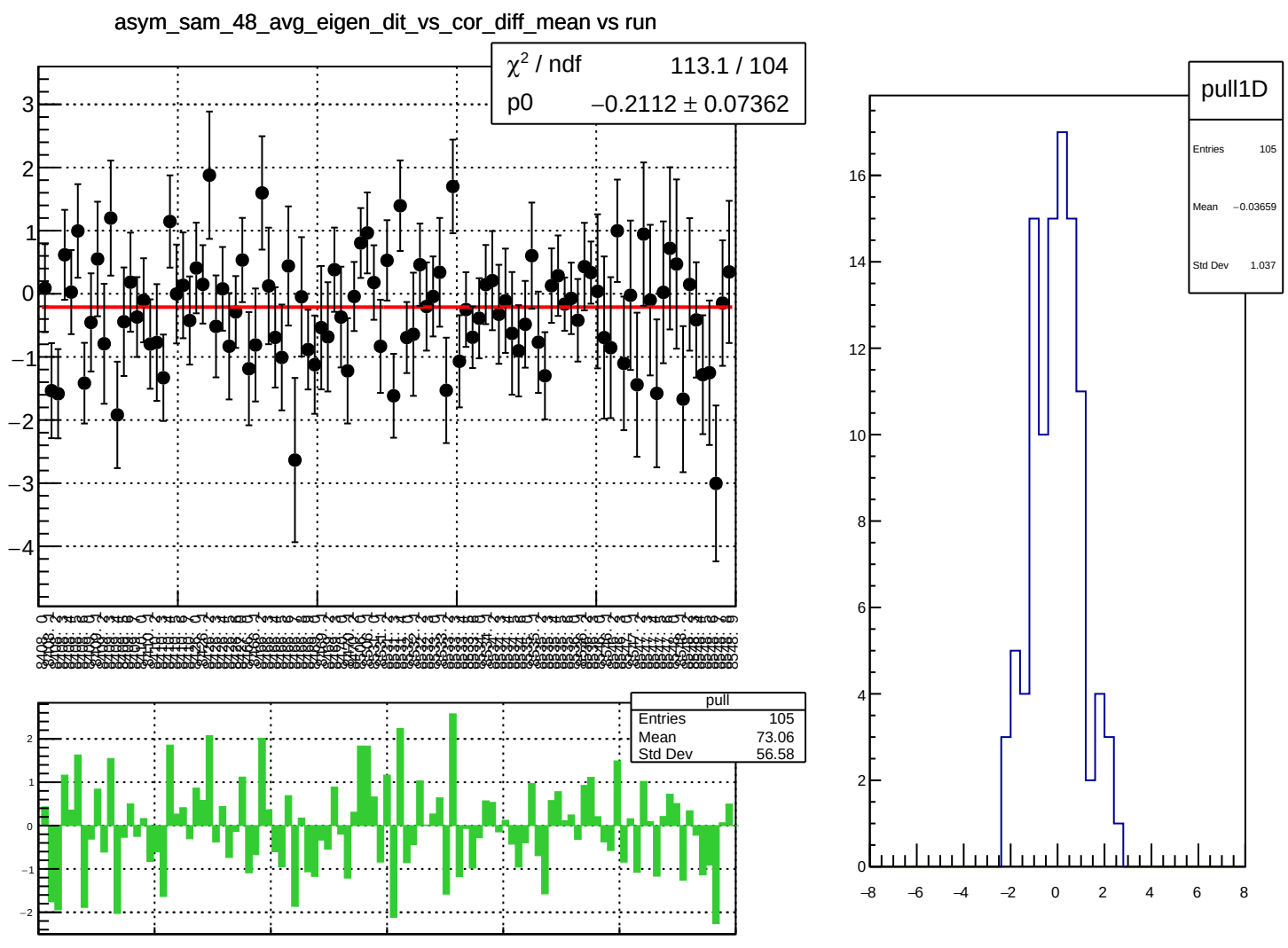

asym_sam_48_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 113.1 / 104
p0 −0.2113 ± 0.07363
pull
Entries 105
Mean 73.07
Std Dev 56.57
pull1D
Entries 105
Mean −0.03659
Std Dev 1.037

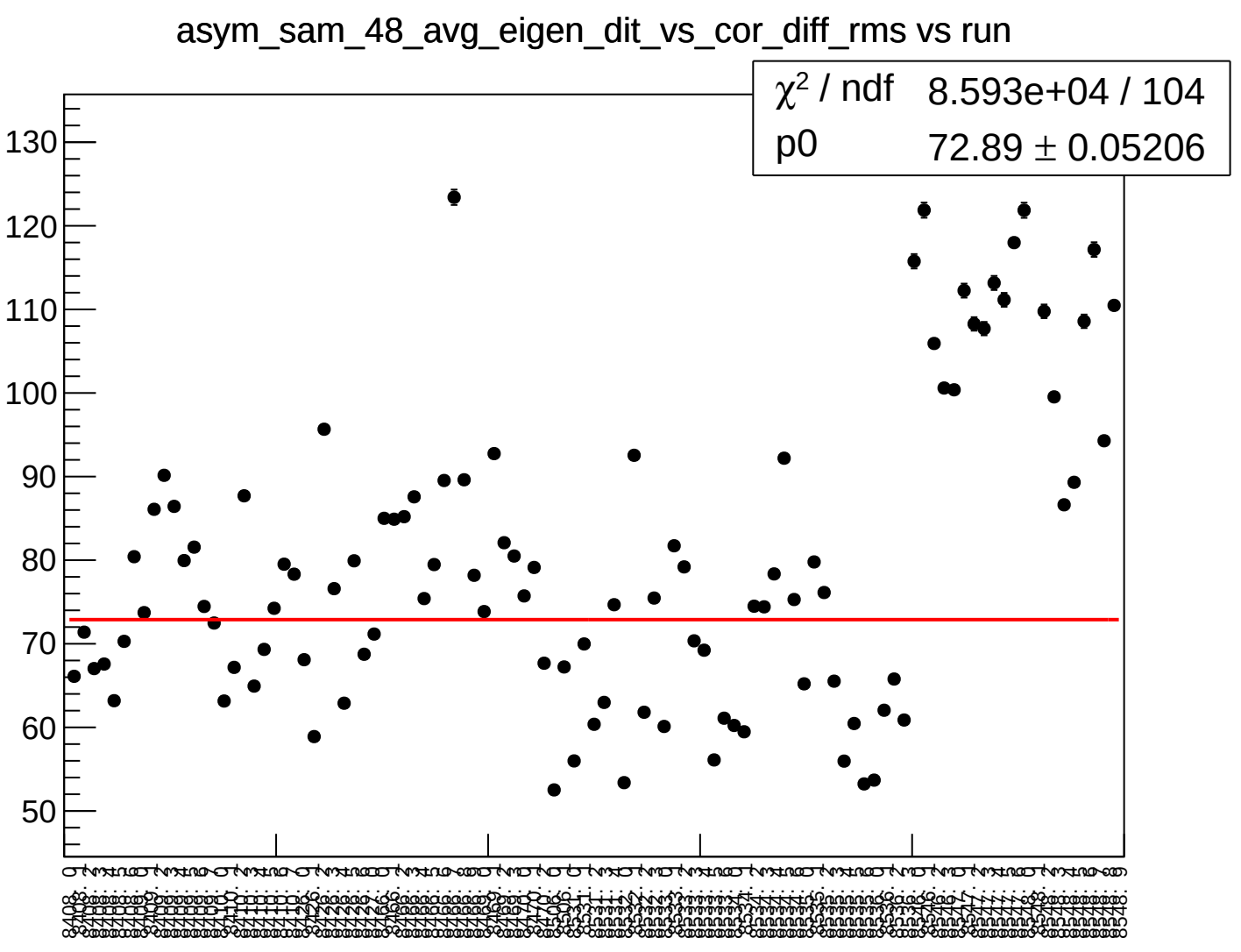

asym_sam_48_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.593e+04 / 104
p0 72.89 ± 0.05206
130
120
110
100
90
80
70
60
50

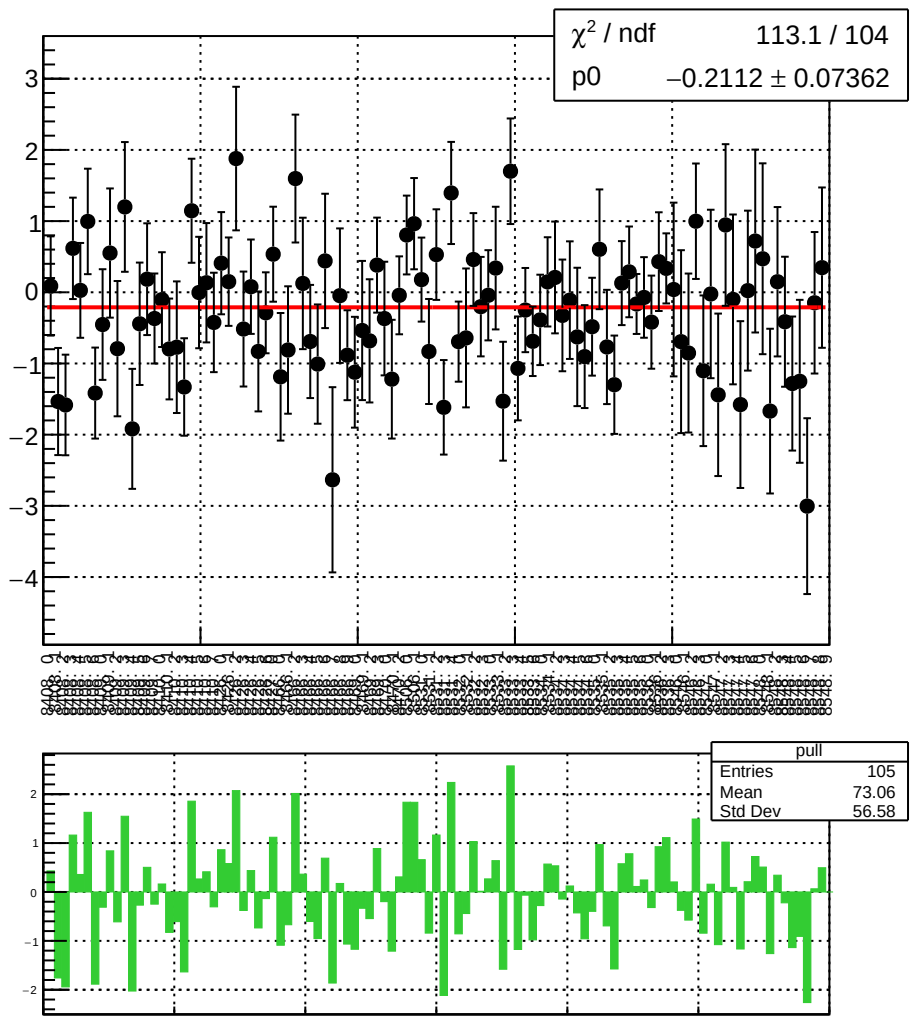

asym_sam_48_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 108.6 / 104
p0 2.1e−05 ± 4.633e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 105
Mean −1563
Std Dev 0
2
1
0
−1
−2

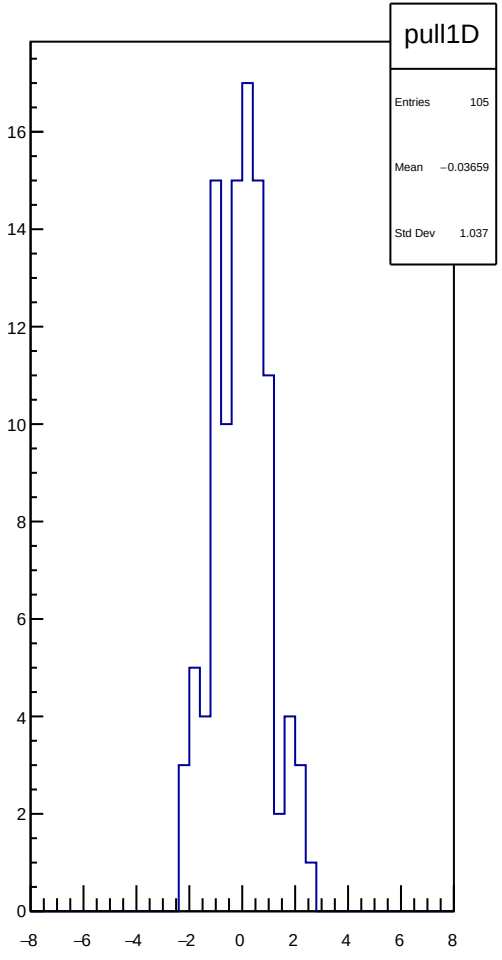

pull1D
Entries 105
Mean −0.00166
Std Dev 1.017
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

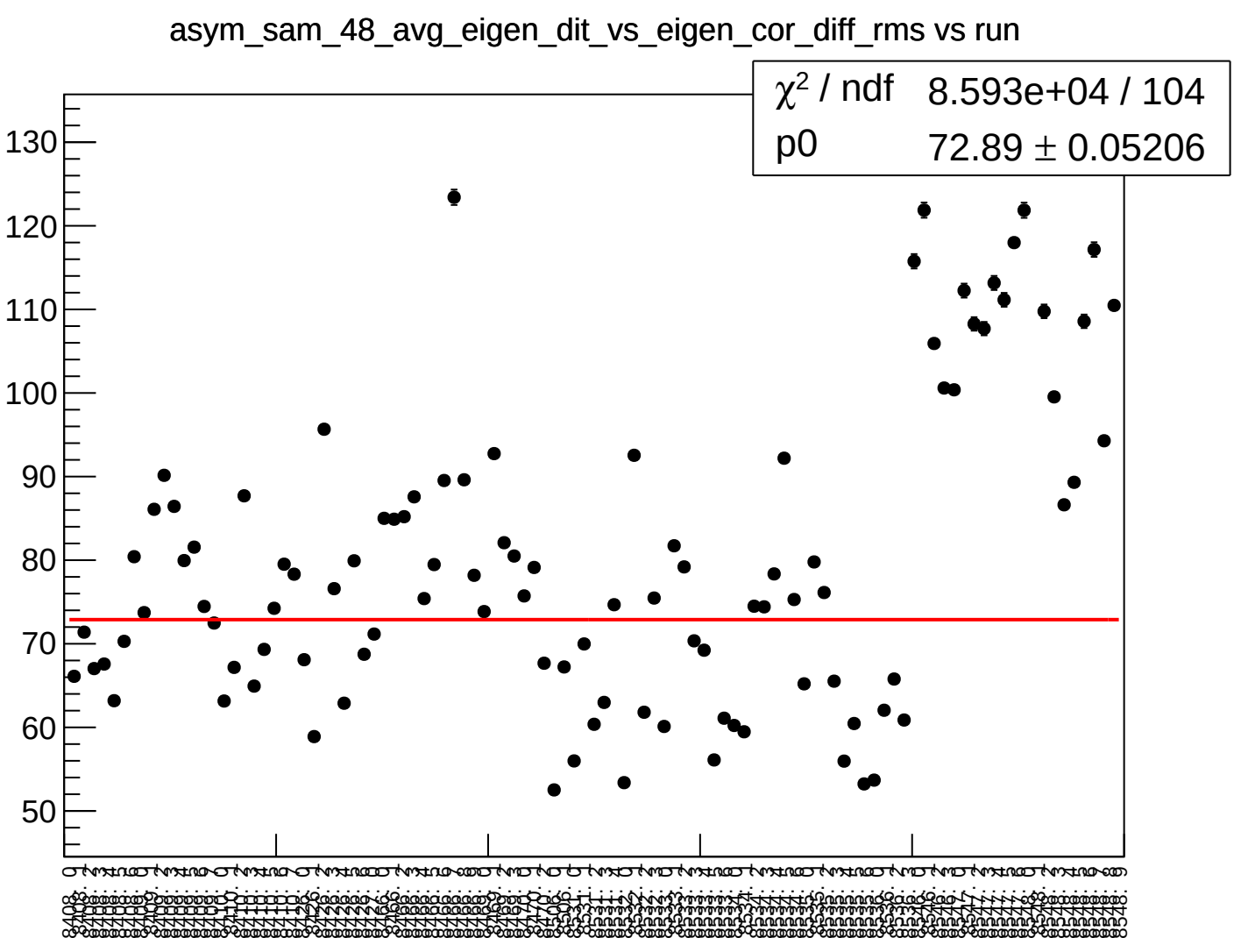

asym_sam_48_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.878e+05 / 104
p0 0.004466 ± 3.276e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003

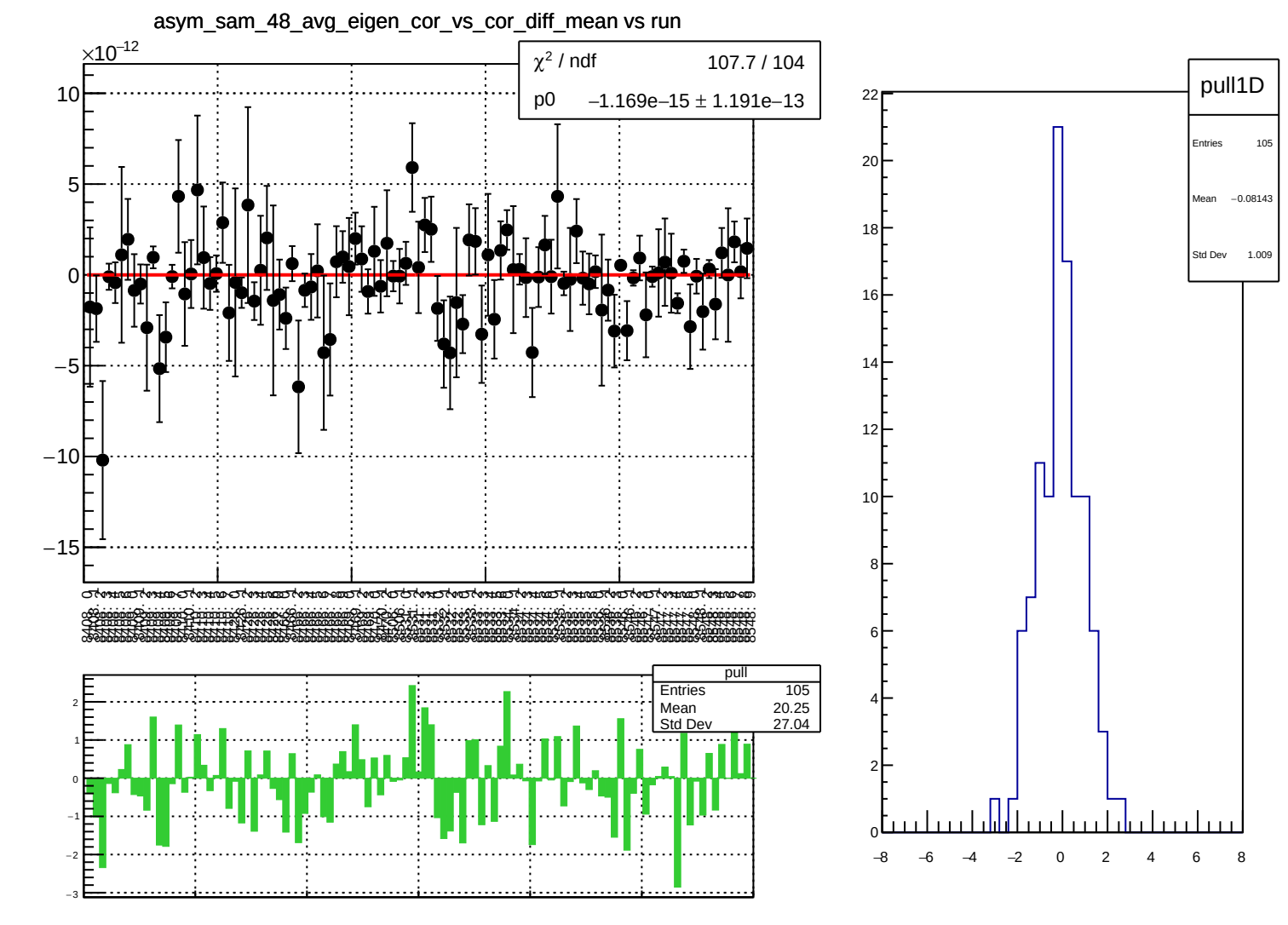

asym_sam_48_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 113.1 / 104
p0 −0.2112 ± 0.07362
pull
Entries 105
Mean 73.06
Std Dev 56.58
pull1D
Entries 105
Mean −0.03659
Std Dev 1.037

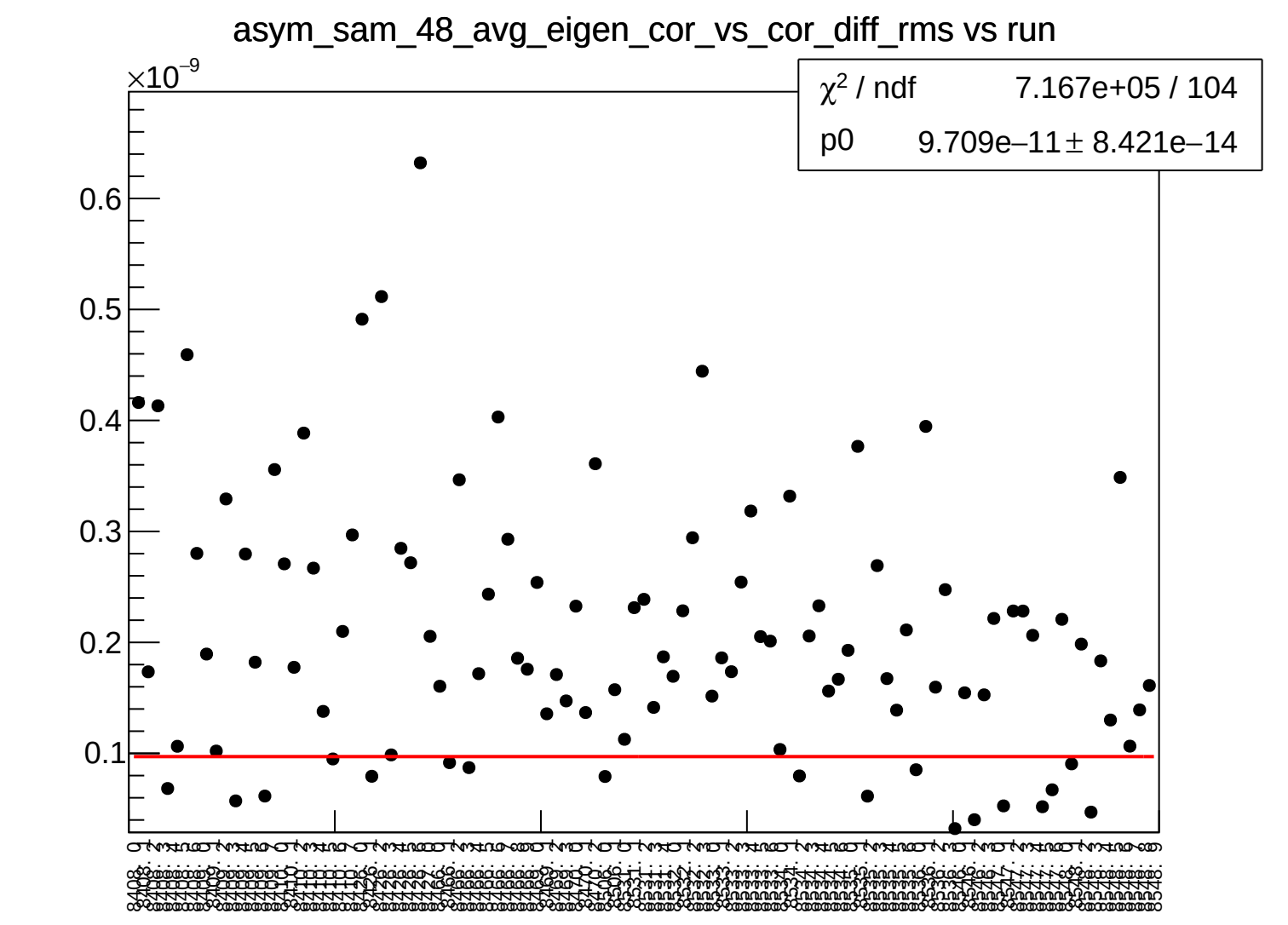

asym_sam_48_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.593e+04 / 104
p0 72.89 ± 0.05206
130
120
110
100
90
80
70
60
50

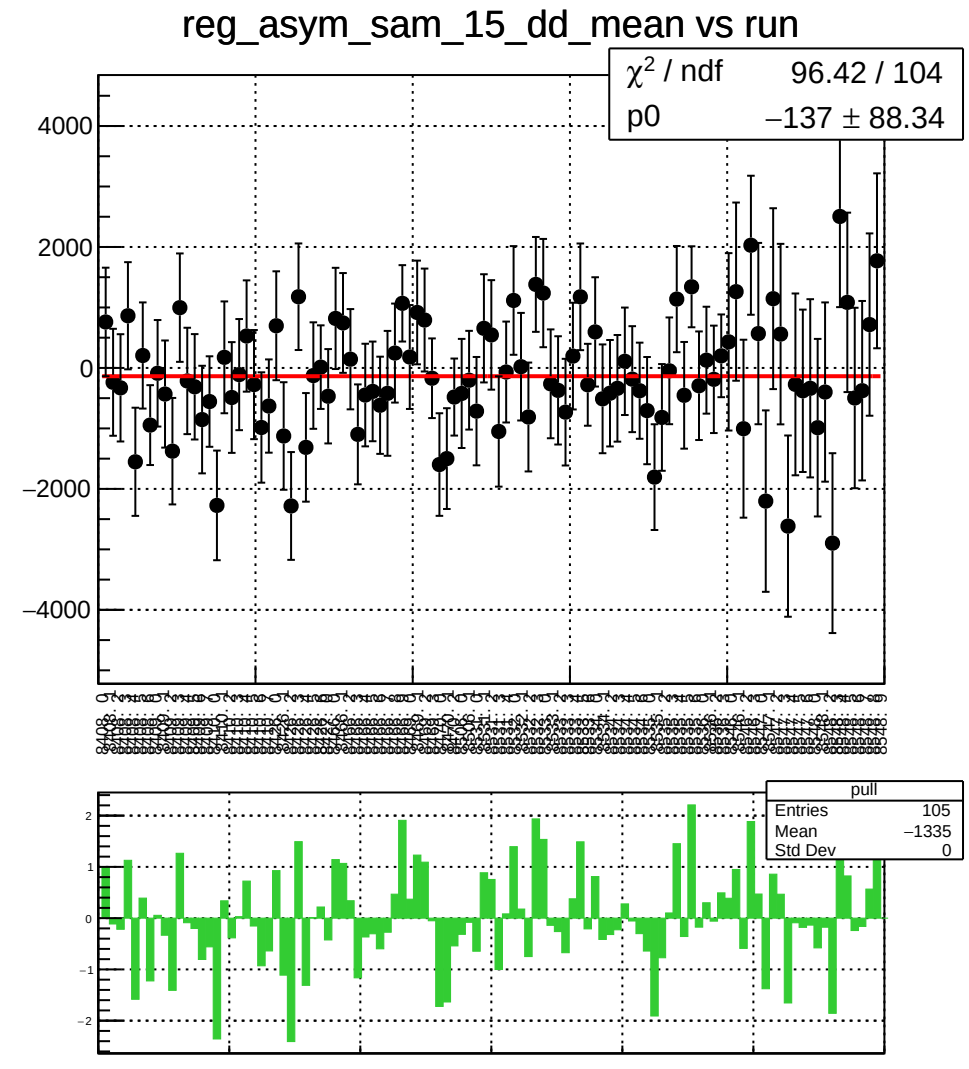

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 113.1 / 104
p0 −0.2112 ± 0.07362
pull
Entries 105
Mean 73.06
Std Dev 56.58

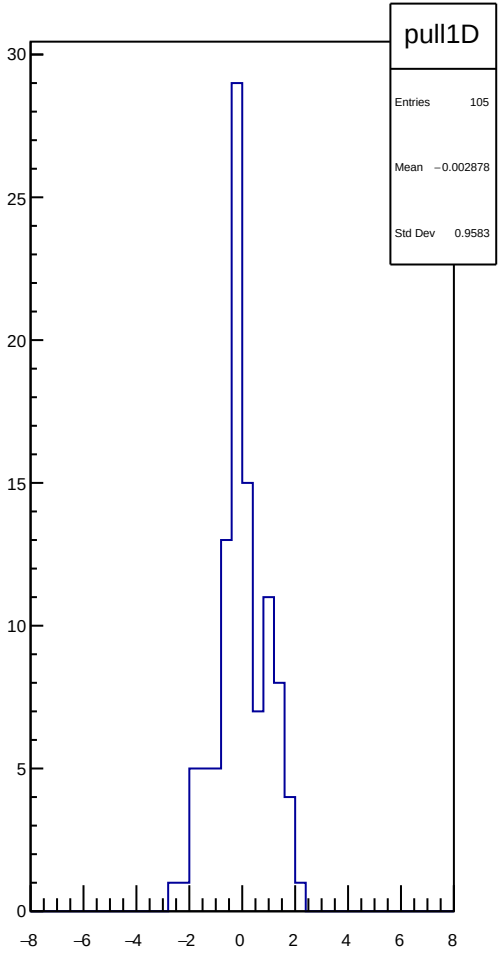

pull1D
Entries 105
Mean −0.03659
Std Dev 1.037

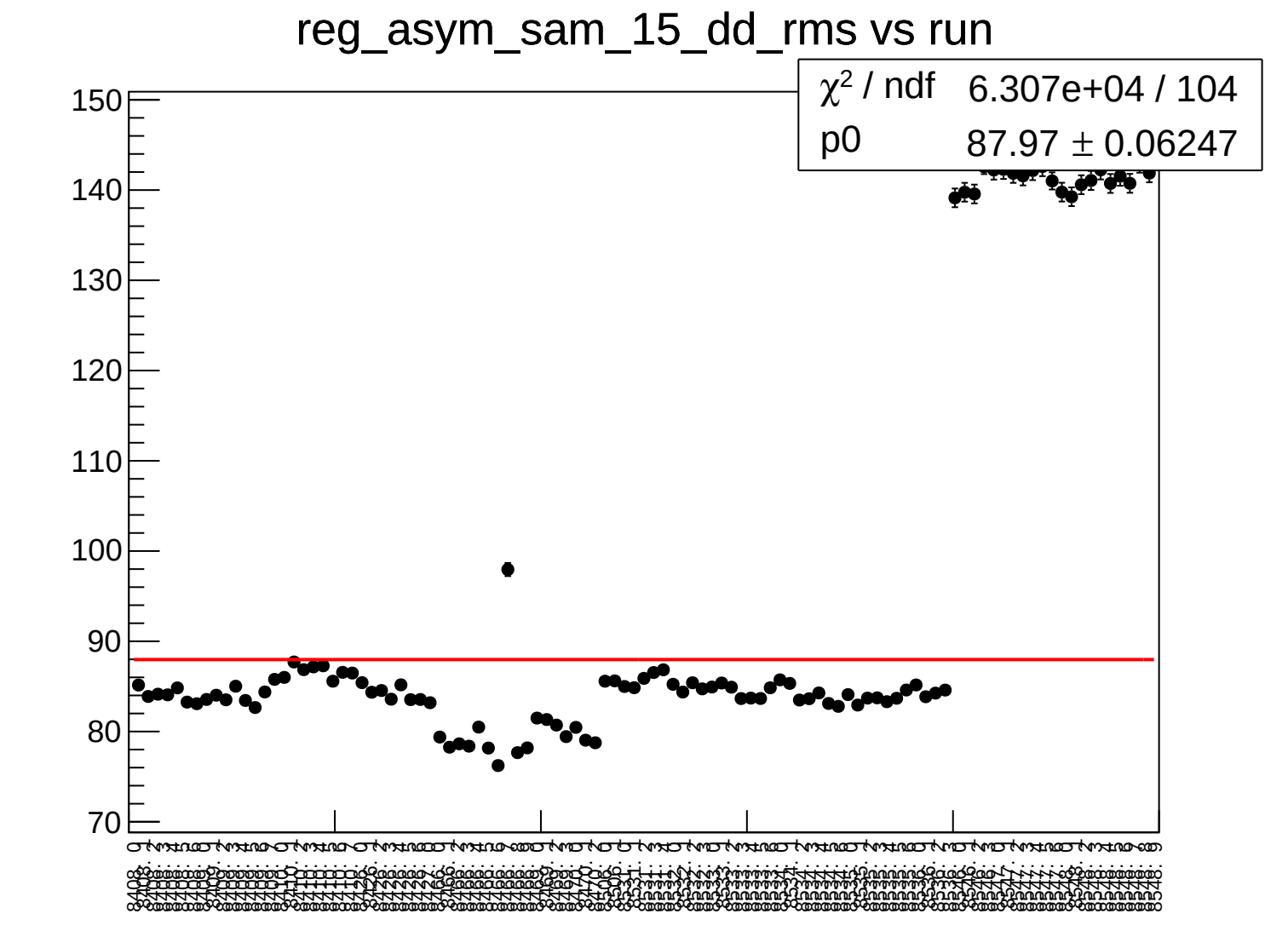

asym_sam_48_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 8.593e+04 / 104
p0 72.89 ± 0.05206
130
120
110
100
90
80
70
60
50

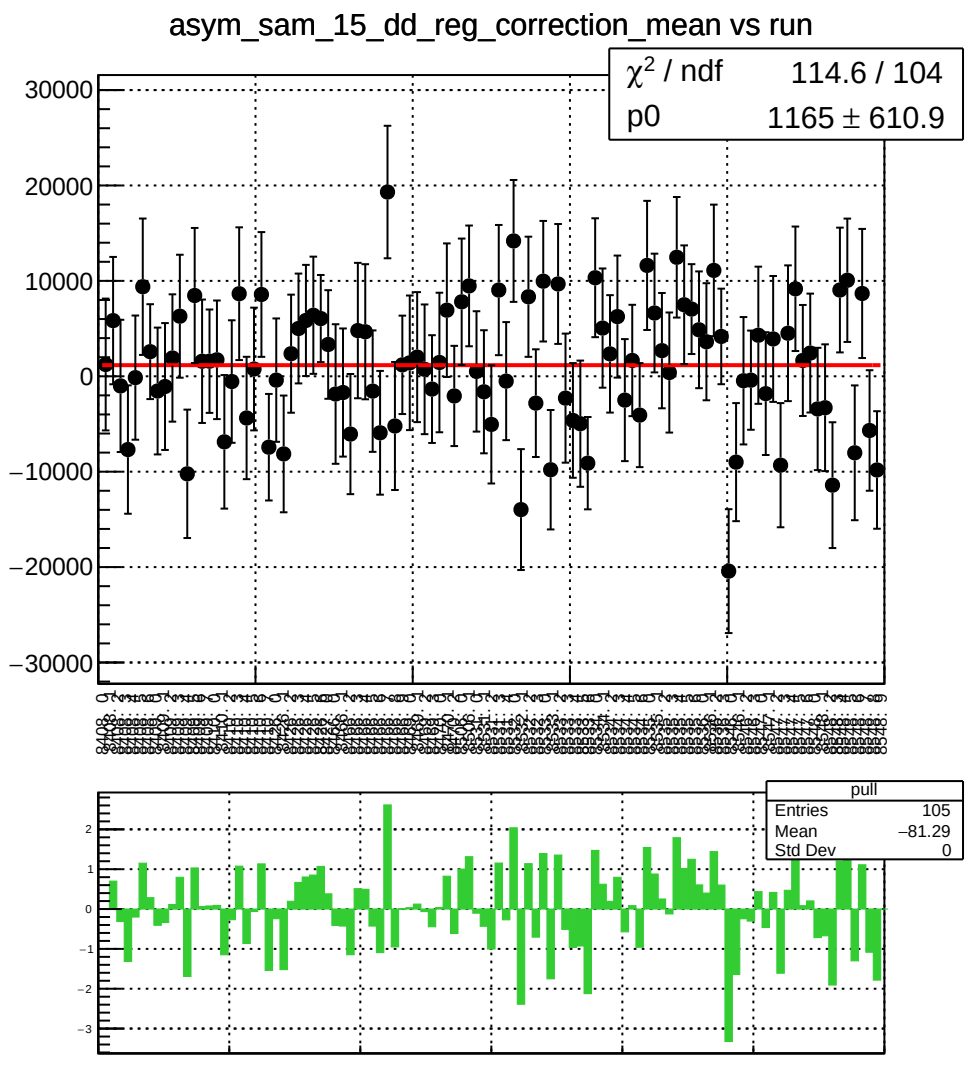

asym_sam_48_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 107.7 / 104
p0 −1.169e−15 ± 1.191e−13
pull
Entries 105
Mean 20.25
Std Dev 27.04
pull1D
Entries 105
Mean −0.08143
Std Dev 1.009

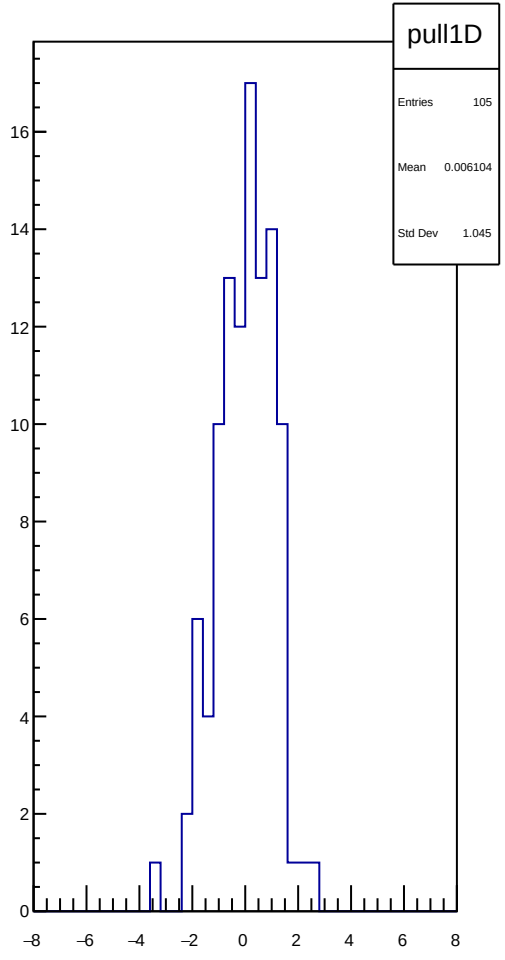

asym_sam_48_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.167e+05 / 104
p0 9.709e−11 ± 8.421e−14
0.6
0.5
0.4
0.3
0.2
0.1

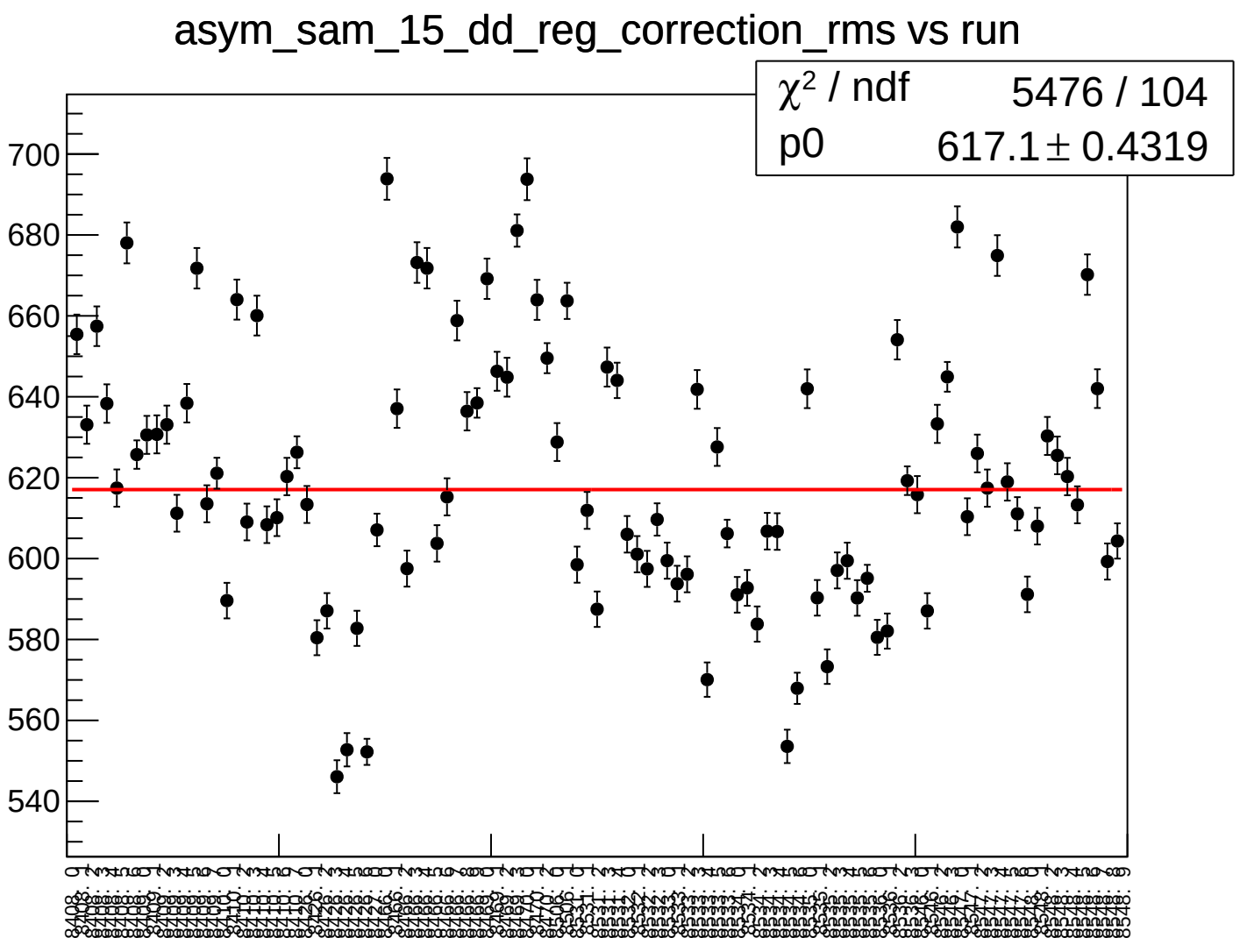

reg_asym_sam_15_dd_mean vs run
χ² / ndf 96.42 / 104
p0 −137 ± 88.34
4000
2000
0
−2000
−4000
pull
Entries 105
Mean −1335
Std Dev 0
2
1
0
−1
−2

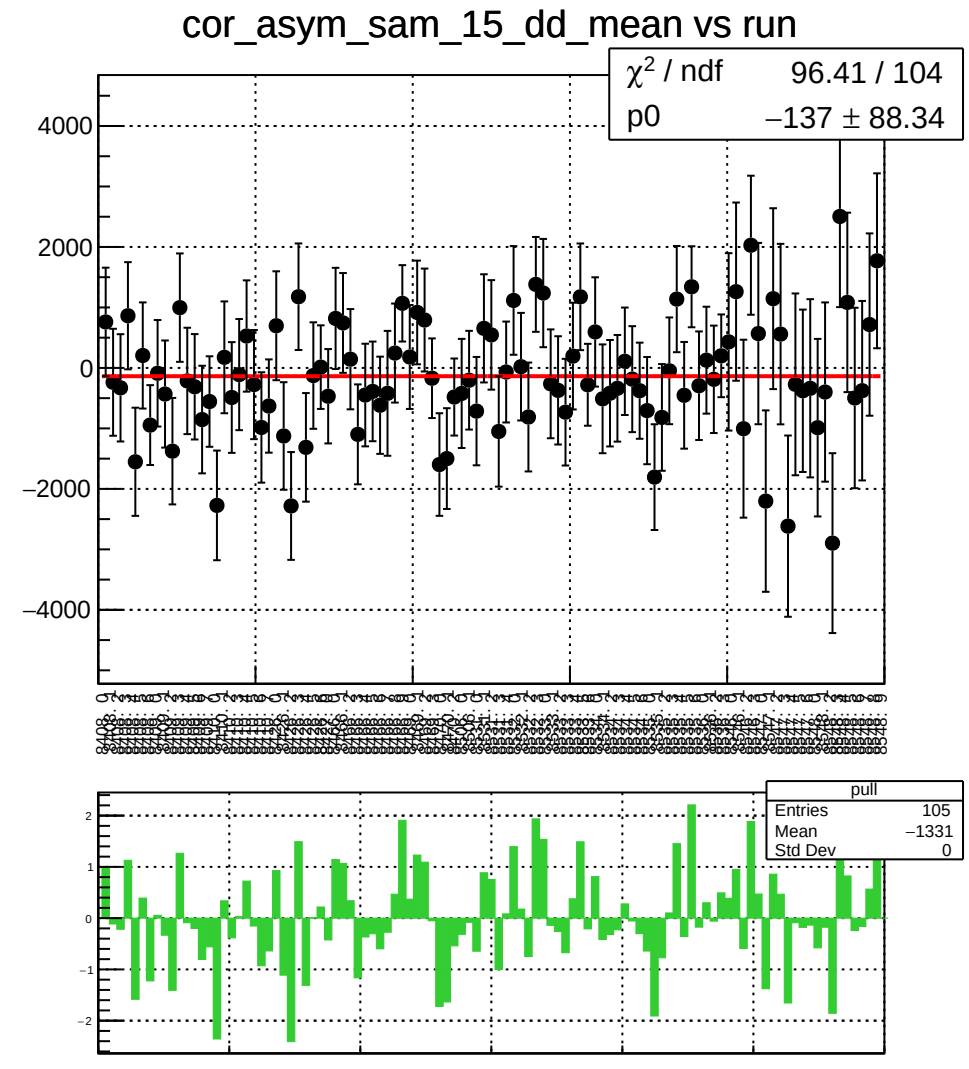

pull1D
Entries 105
Mean −0.002878
Std Dev 0.9583
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

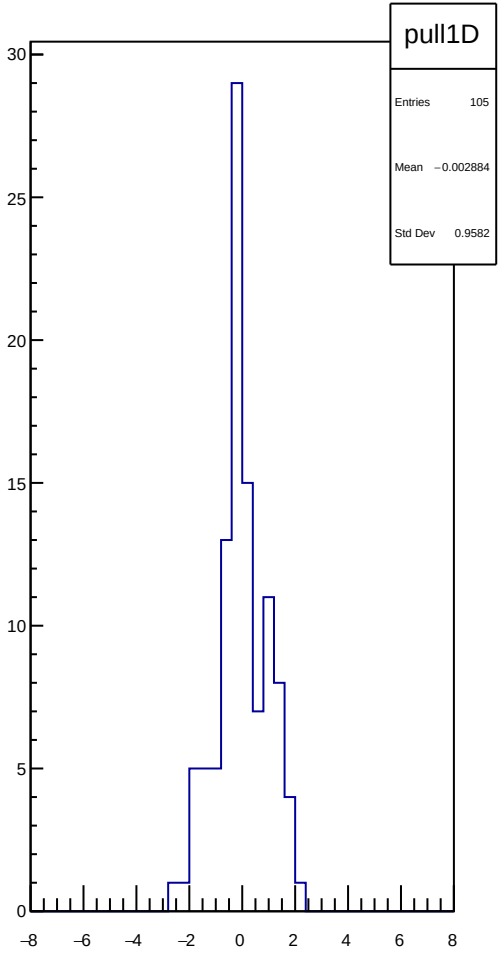

reg_asym_sam_15_dd_rms vs run
χ^2 / ndf 6.307e+04 / 104
p0 87.97 ± 0.06247
150
140
130
120
110
100
90
80
70

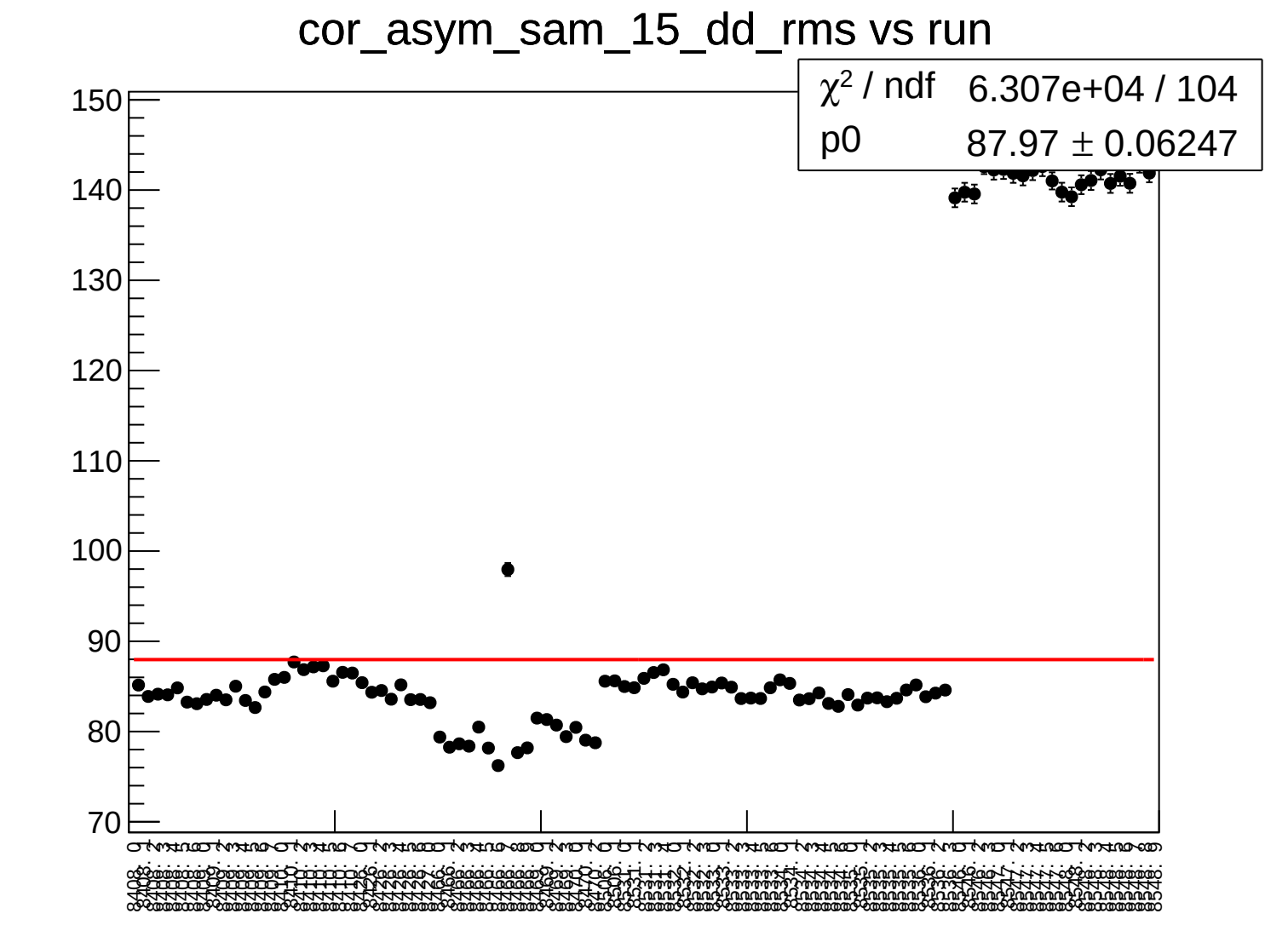

asym_sam_15_dd_reg_correction_mean vs run
χ² / ndf 114.6 / 104
p0 1165 ± 610.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 105
Mean −81.29
Std Dev 0
2
1
0
−1
−2
−3

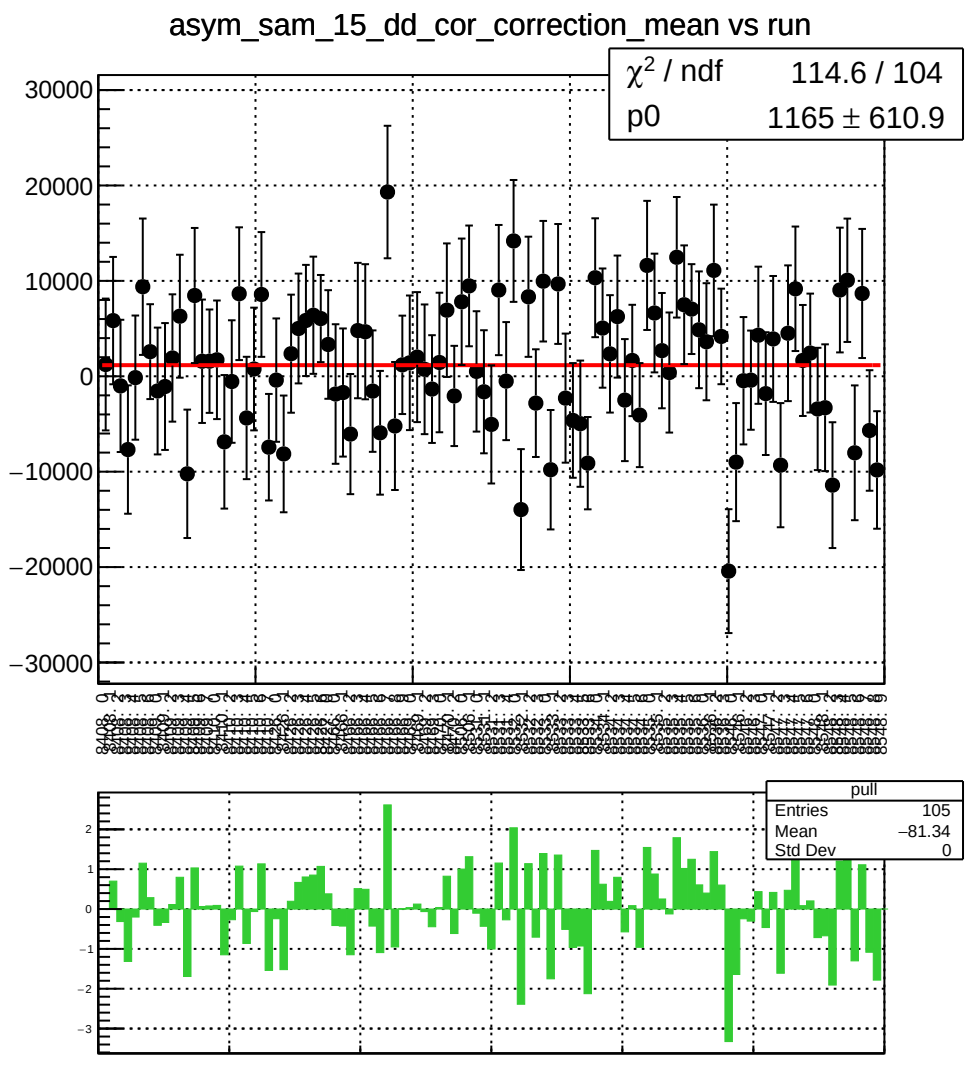

pull1D
Entries 105
Mean 0.006104
Std Dev 1.045
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

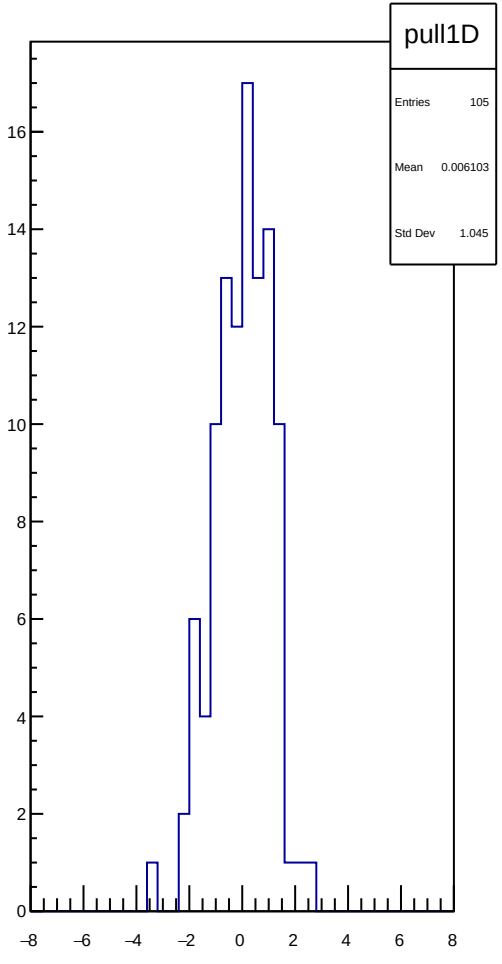

asym_sam_15_dd_reg_correction_rms vs run
χ² / ndf 5476 / 104
p0 617.1 ± 0.4319
700
680
660
640
620
600
580
560
540

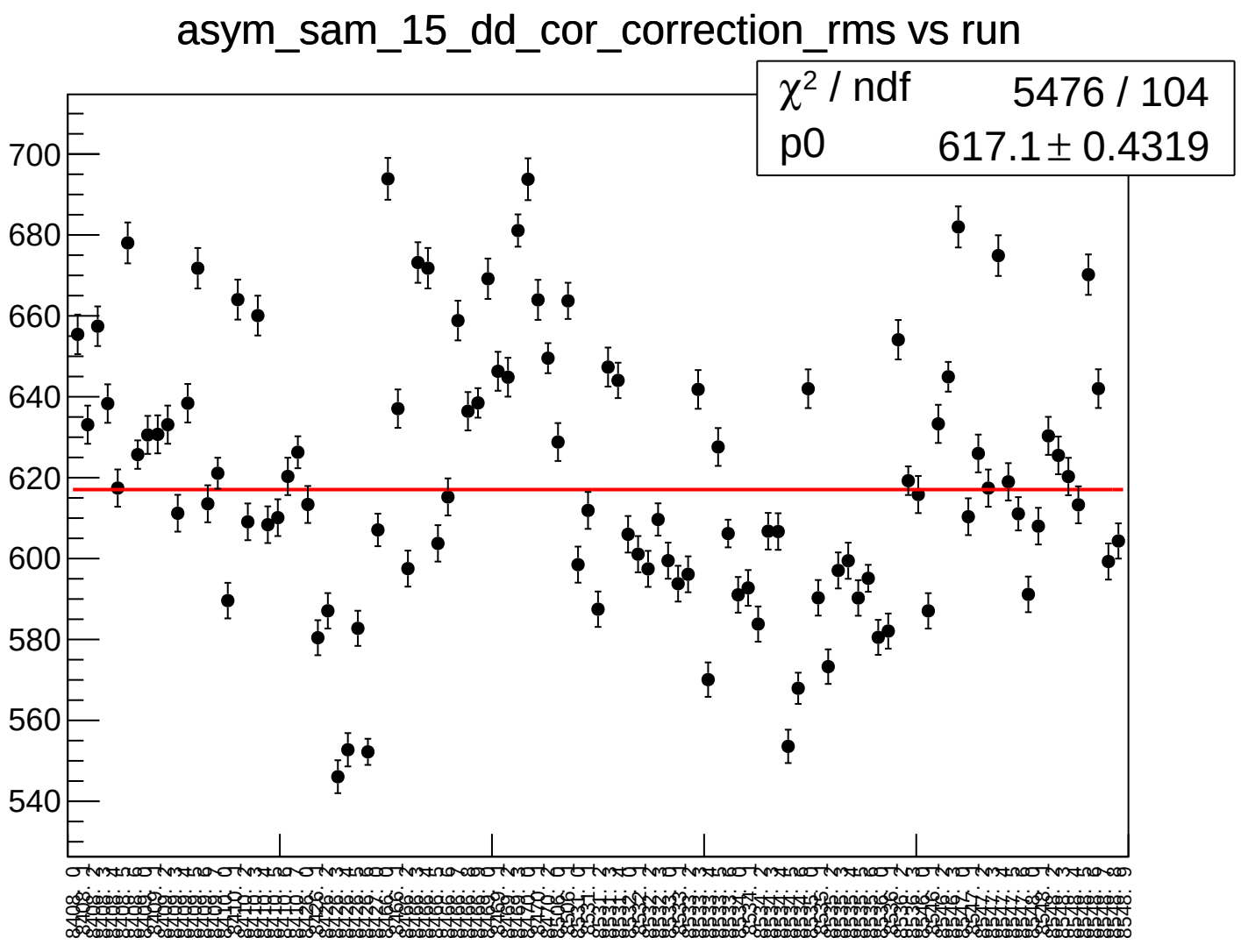

cor_asym_sam_15_dd_mean vs run
χ² / ndf 96.41 / 104
p0 −137 ± 88.34
4000
2000
0
−2000
−4000
pull
Entries 105
Mean −1331
Std Dev 0
2
1
0
−1
−2

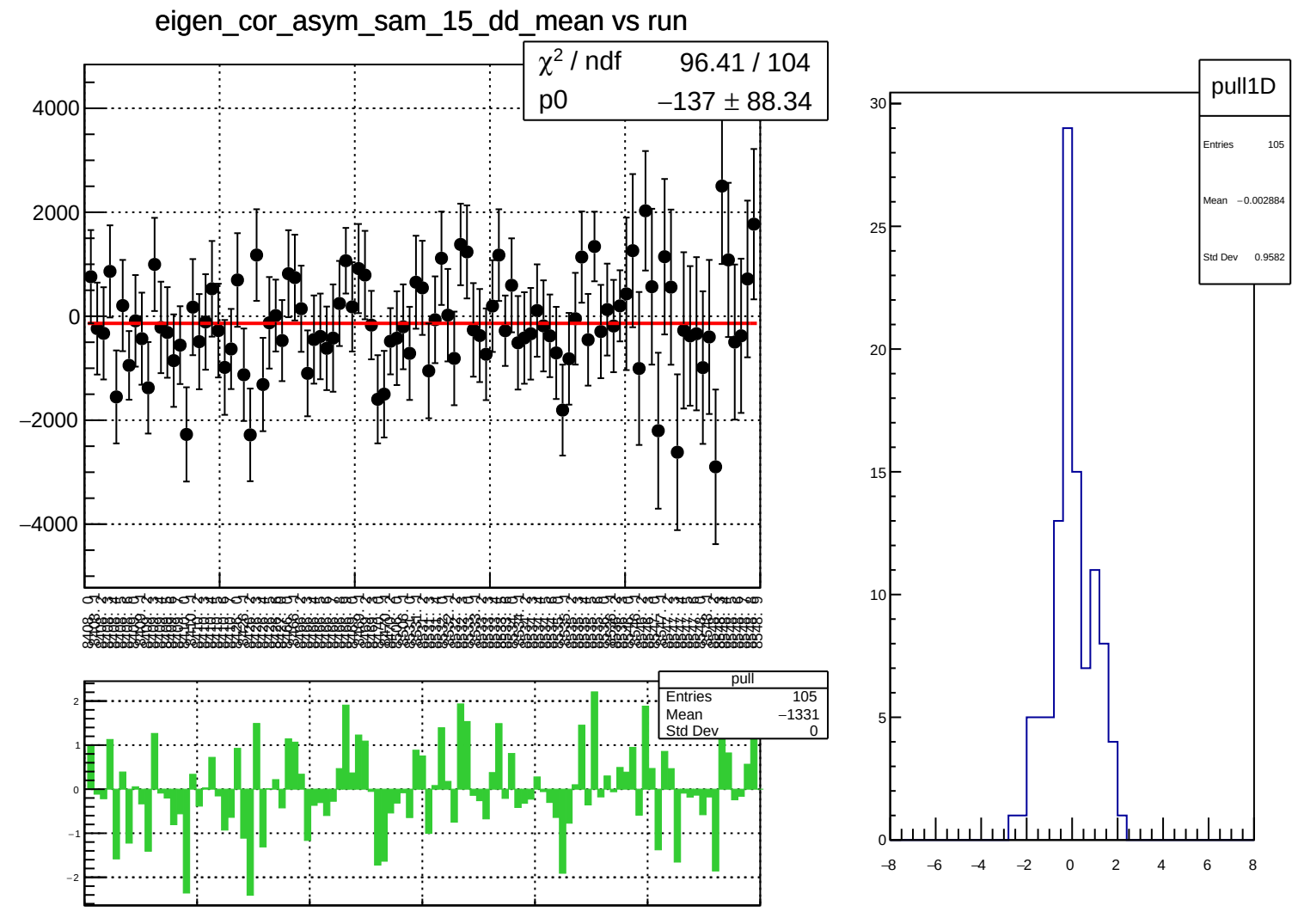

pull1D
Entries 105
Mean −0.002884
Std Dev 0.9582
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

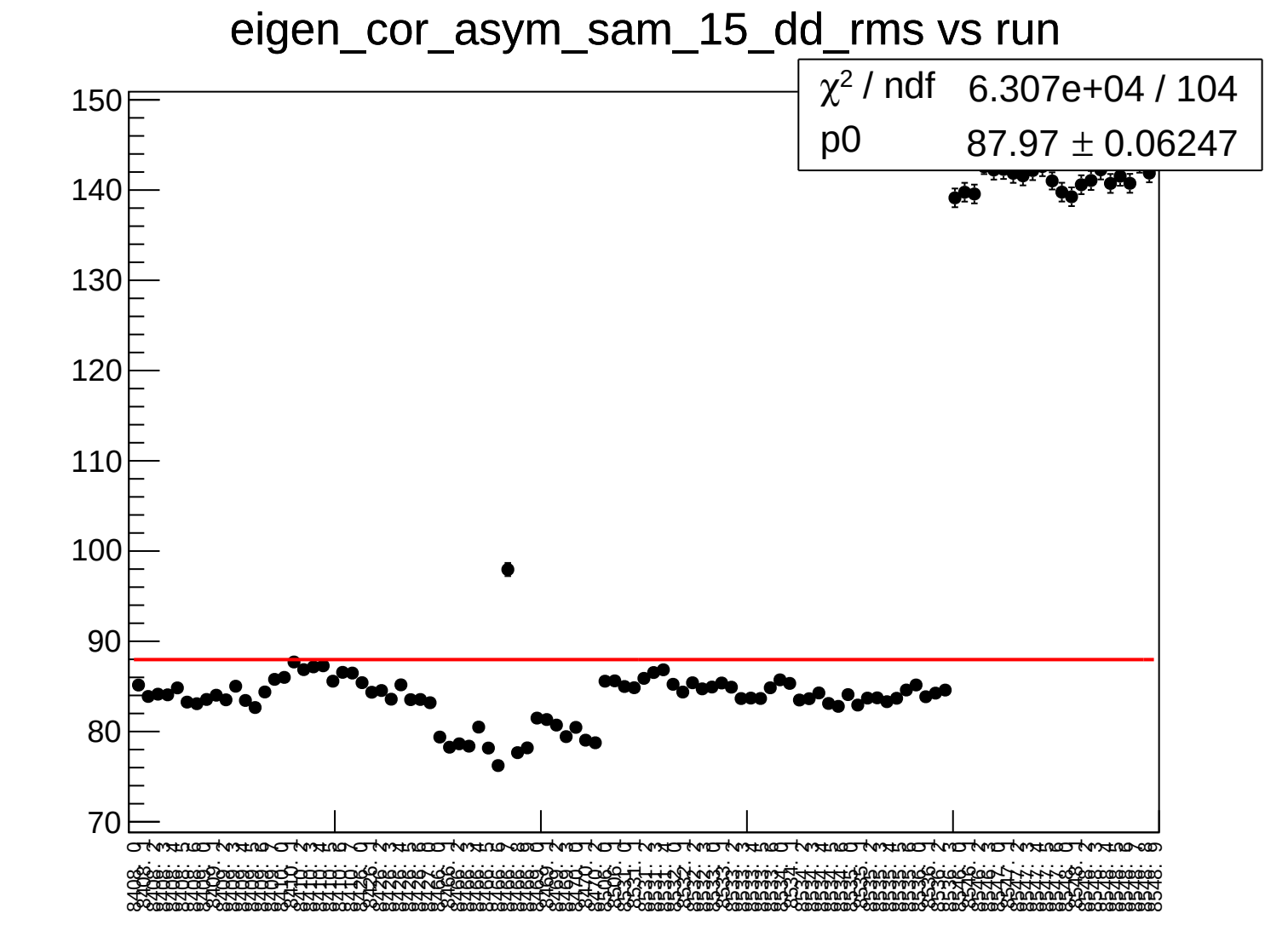

cor_asym_sam_15_dd_rms vs run
χ^2 / ndf 6.307e+04 / 104
p0 87.97 ± 0.06247
150
140
130
120
110
100
90
80
70

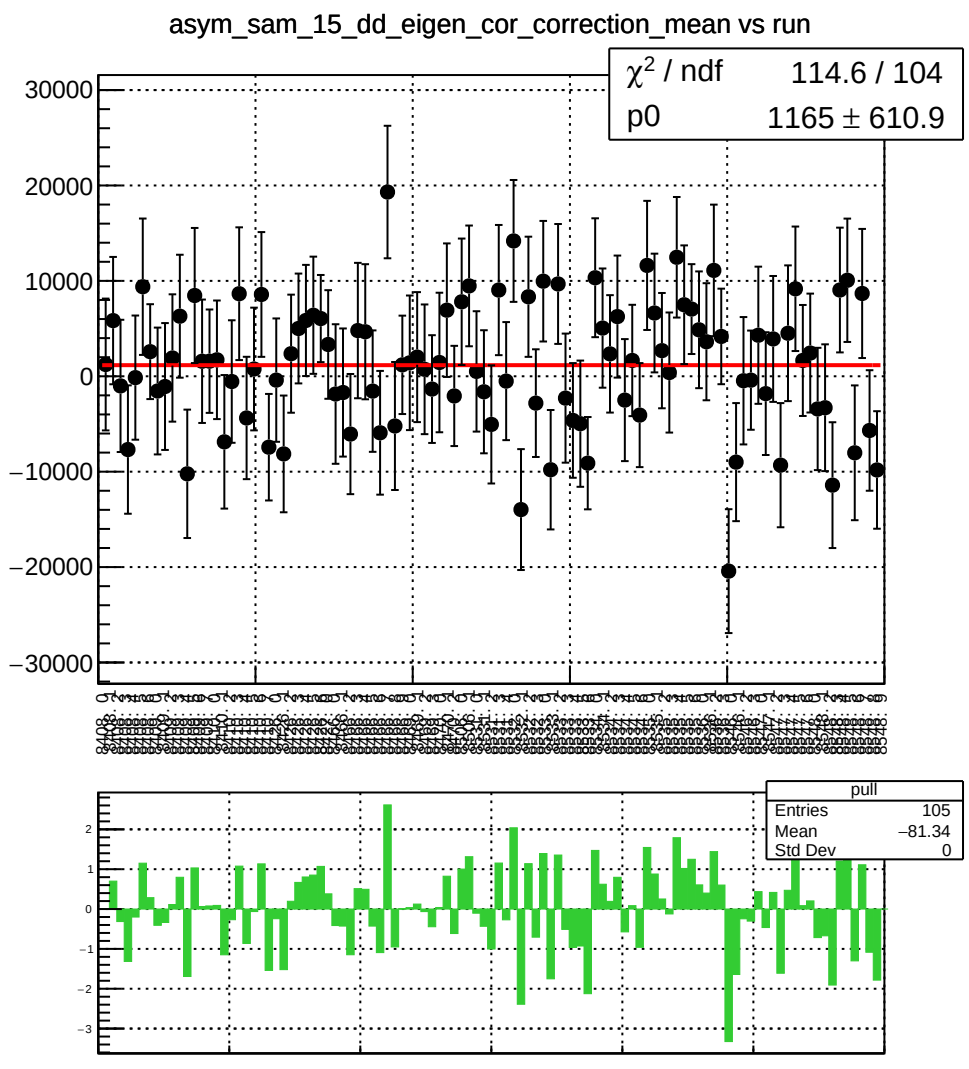

asym_sam_15_dd_cor_correction_mean vs run
χ² / ndf 114.6 / 104
p0 1165 ± 610.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 105
Mean −81.34
Std Dev 0
2
1
0
−1
−2
−3

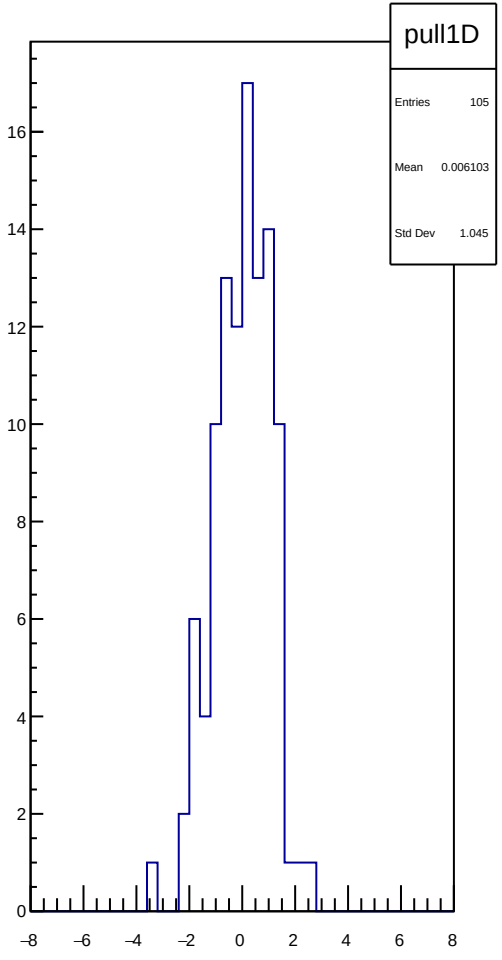

pull1D
Entries 105
Mean 0.006103
Std Dev 1.045
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

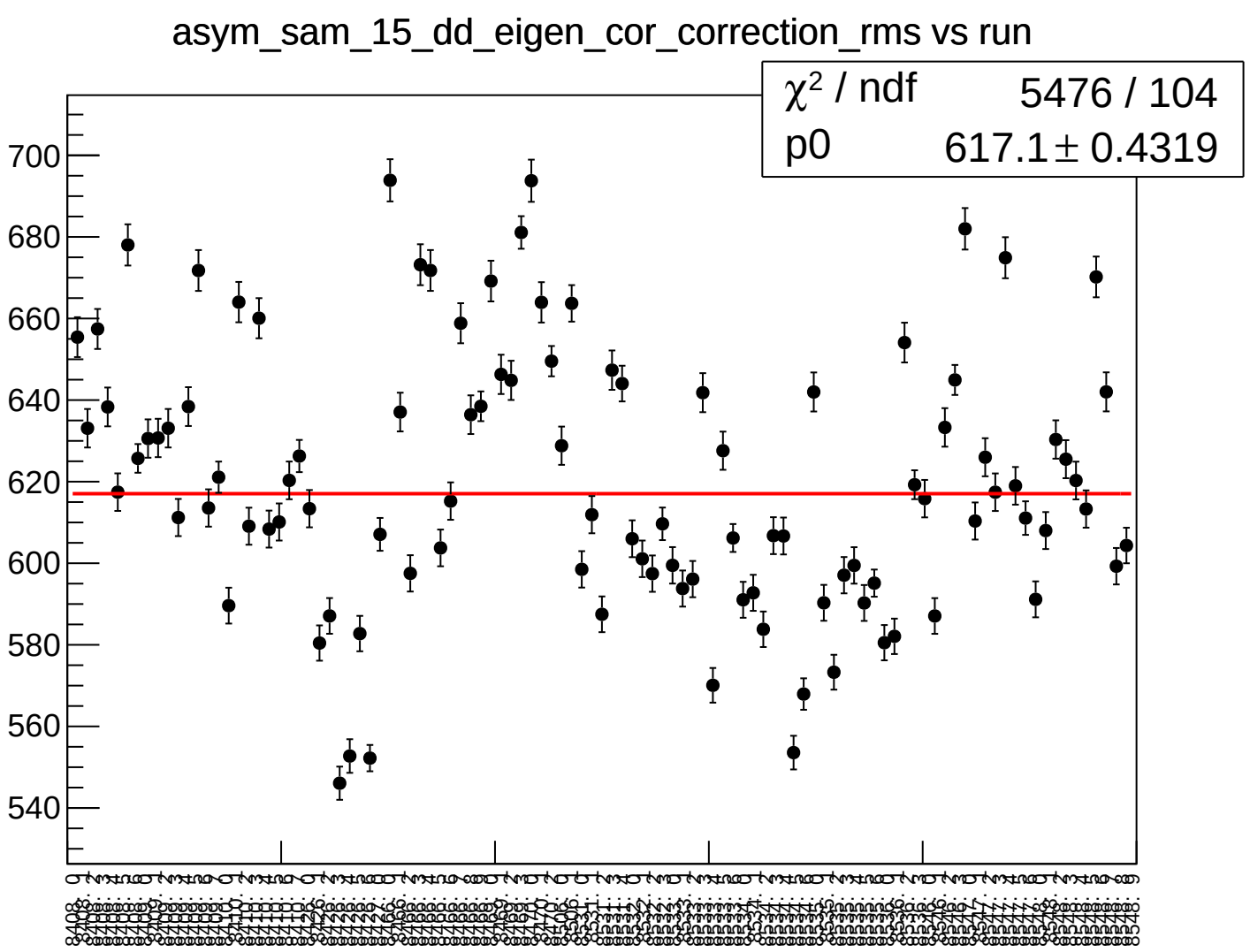

asym_sam_15_dd_cor_correction_rms vs run
χ² / ndf 5476 / 104
p0 617.1 ± 0.4319
700
680
660
640
620
600
580
560
540

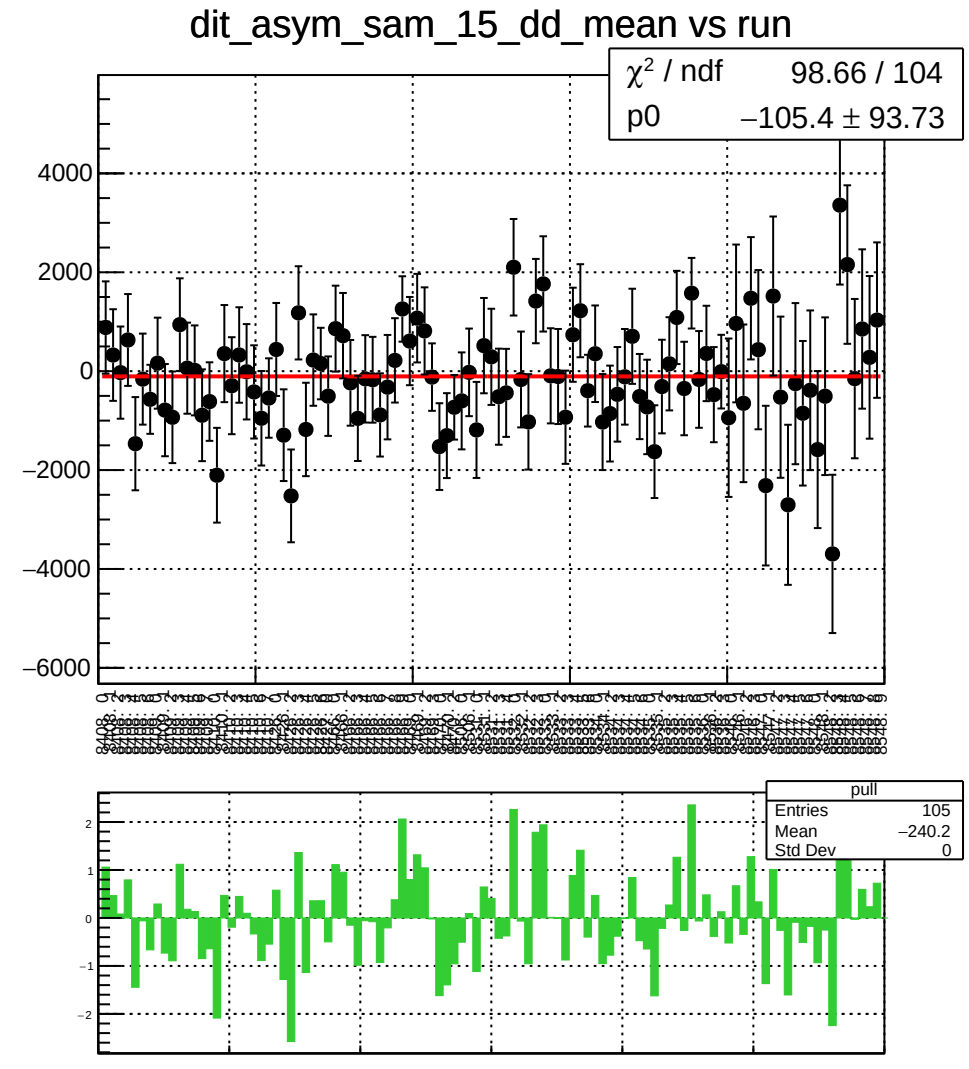

eigen_cor_asym_sam_15_dd_mean vs run
χ² / ndf 96.41 / 104
p0 −137 ± 88.34
4000
2000
0
−2000
−4000
pull
Entries 105
Mean −1331
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.002884
Std Dev 0.9582
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

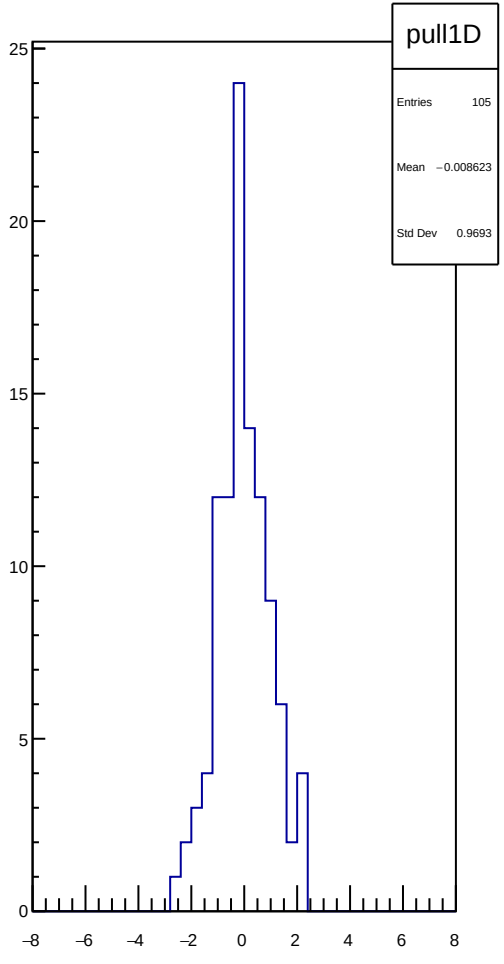

eigen_cor_asym_sam_15_dd_rms vs run
χ² / ndf 6.307e+04 / 104
p0 87.97 ± 0.06247
150
140
130
120
110
100
90
80
70

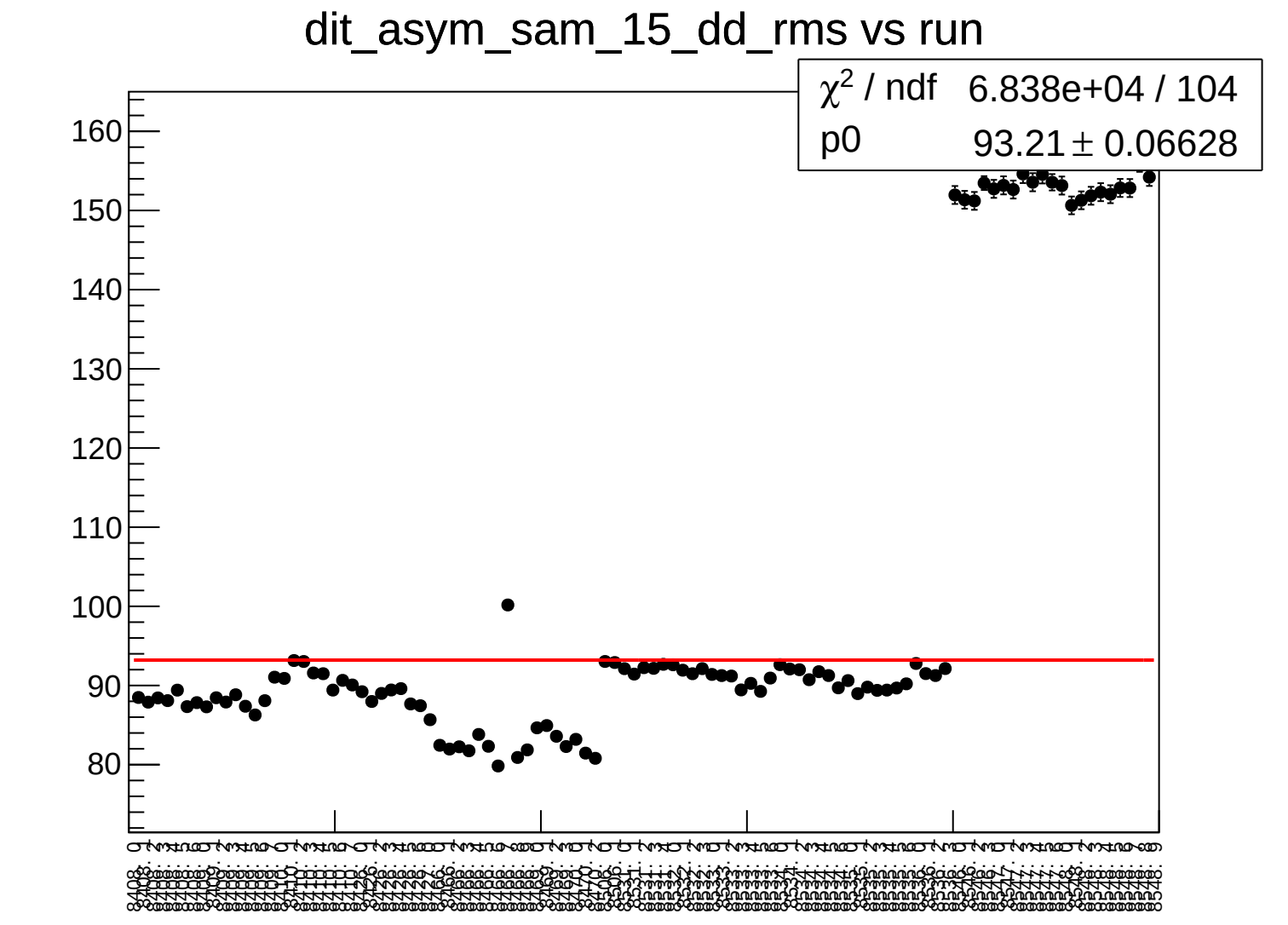

asym_sam_15_dd_eigen_cor_correction_mean vs run
χ² / ndf 114.6 / 104
p0 1165 ± 610.9
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 105
Mean −81.34
Std Dev 0
2
1
0
−1
−2
−3

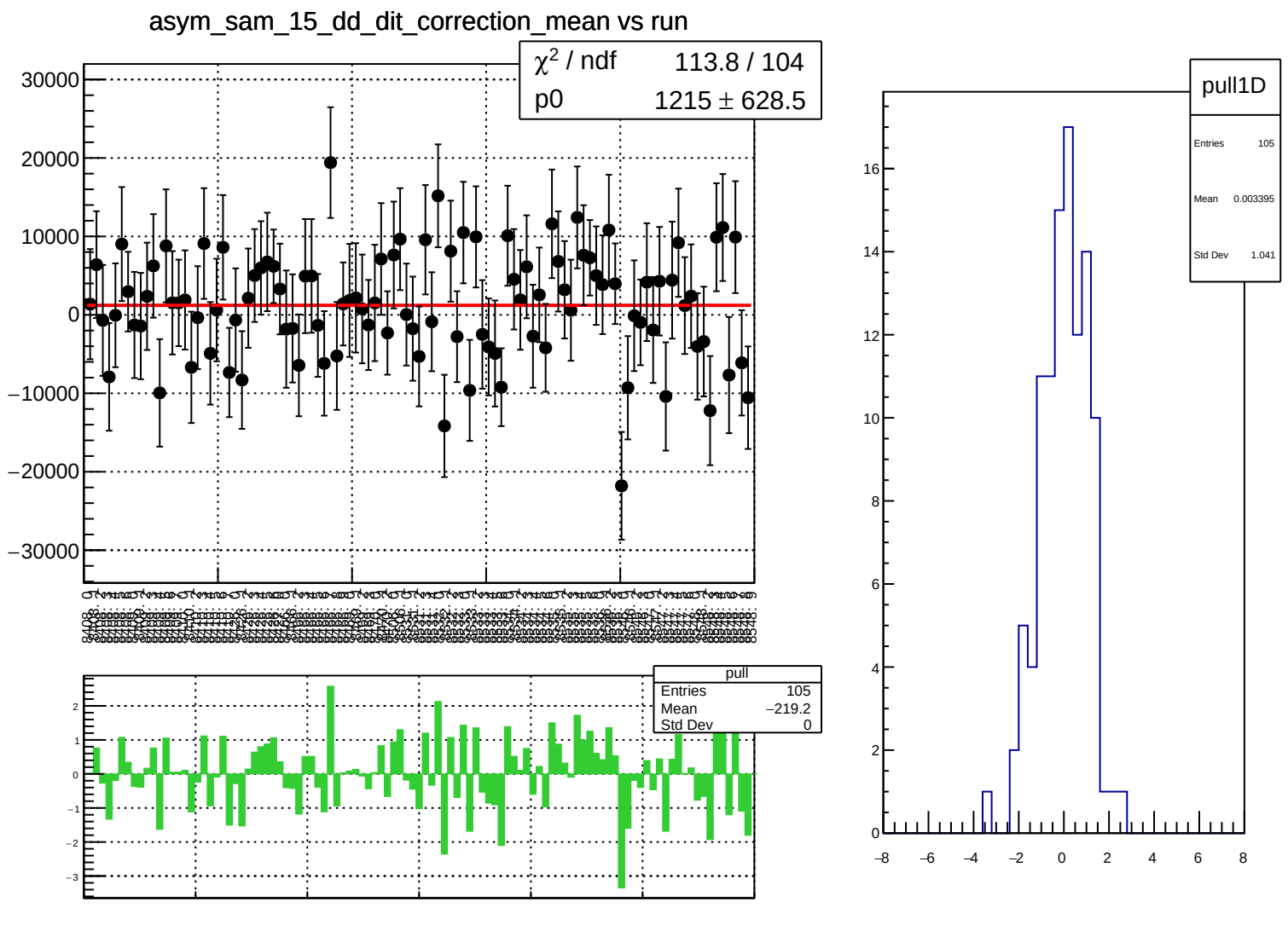

pull1D
Entries 105
Mean 0.006103
Std Dev 1.045
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

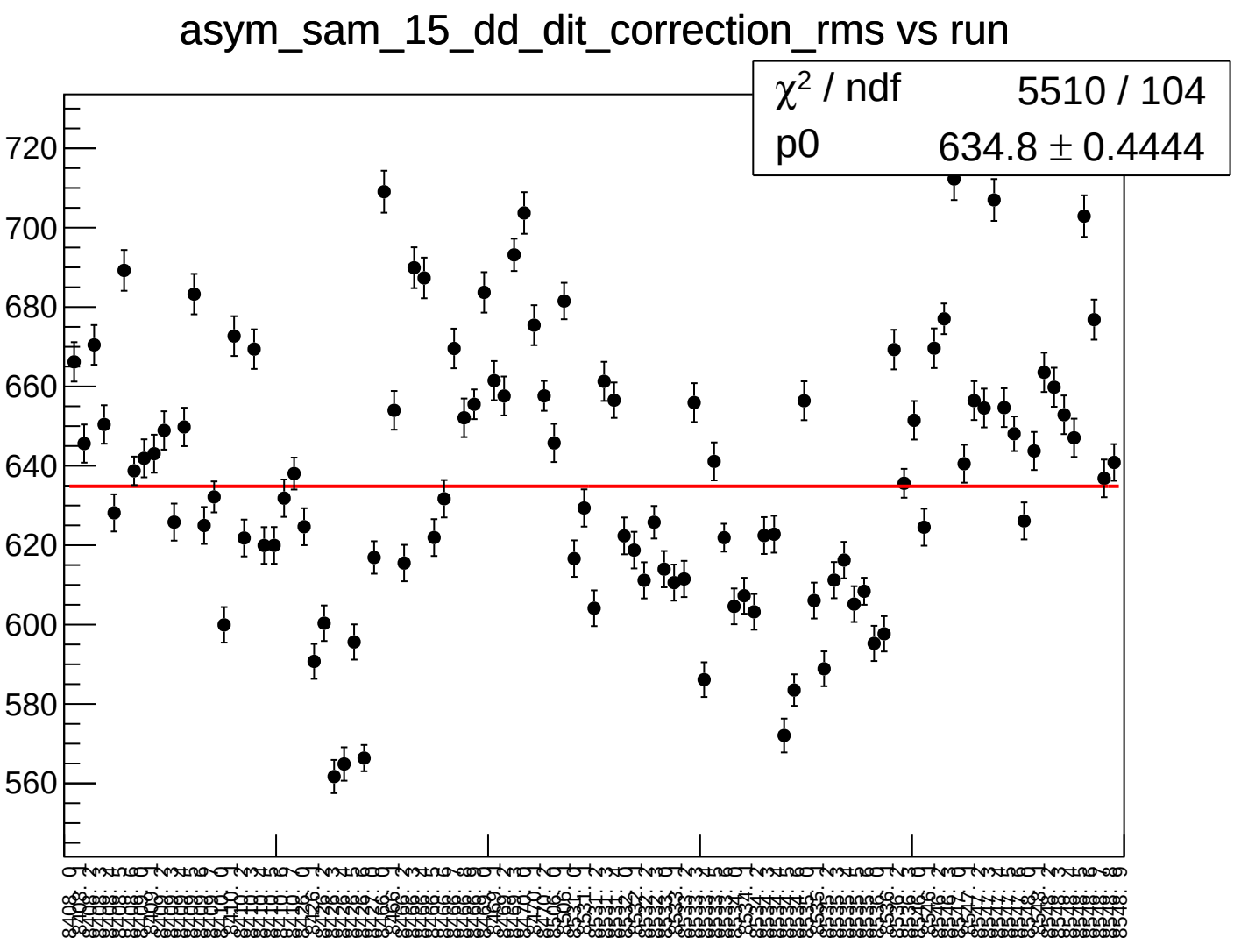

asym_sam_15_dd_eigen_cor_correction_rms vs run
χ² / ndf 5476 / 104
p0 617.1 ± 0.4319
700
680
660
640
620
600
580
560
540

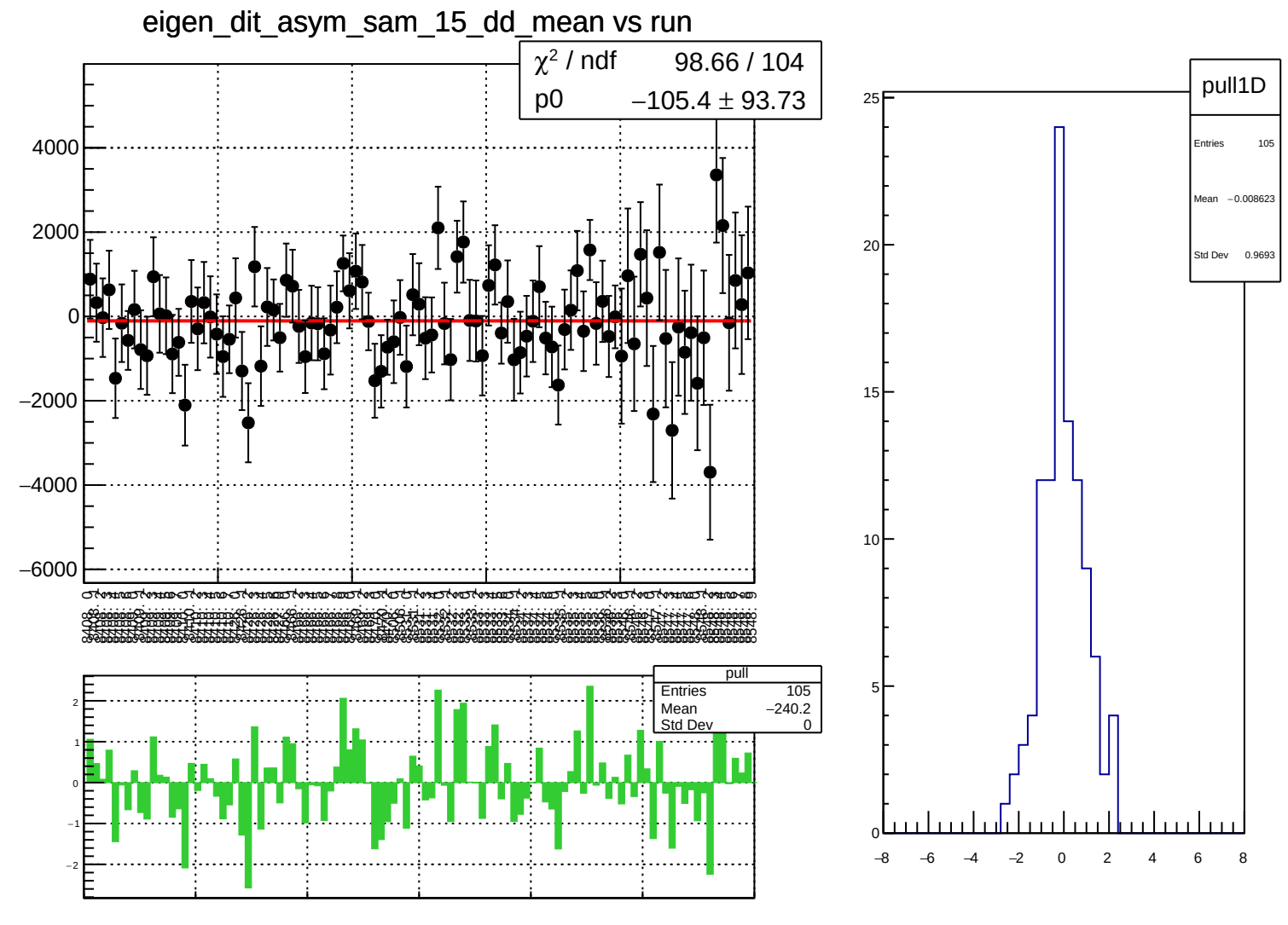

dit_asym_sam_15_dd_mean vs run
χ² / ndf 98.66 / 104
p0 −105.4 ± 93.73
4000
2000
0
−2000
−4000
−6000
pull
Entries 105
Mean −240.2
Std Dev 0
2
1
0
−1
−2

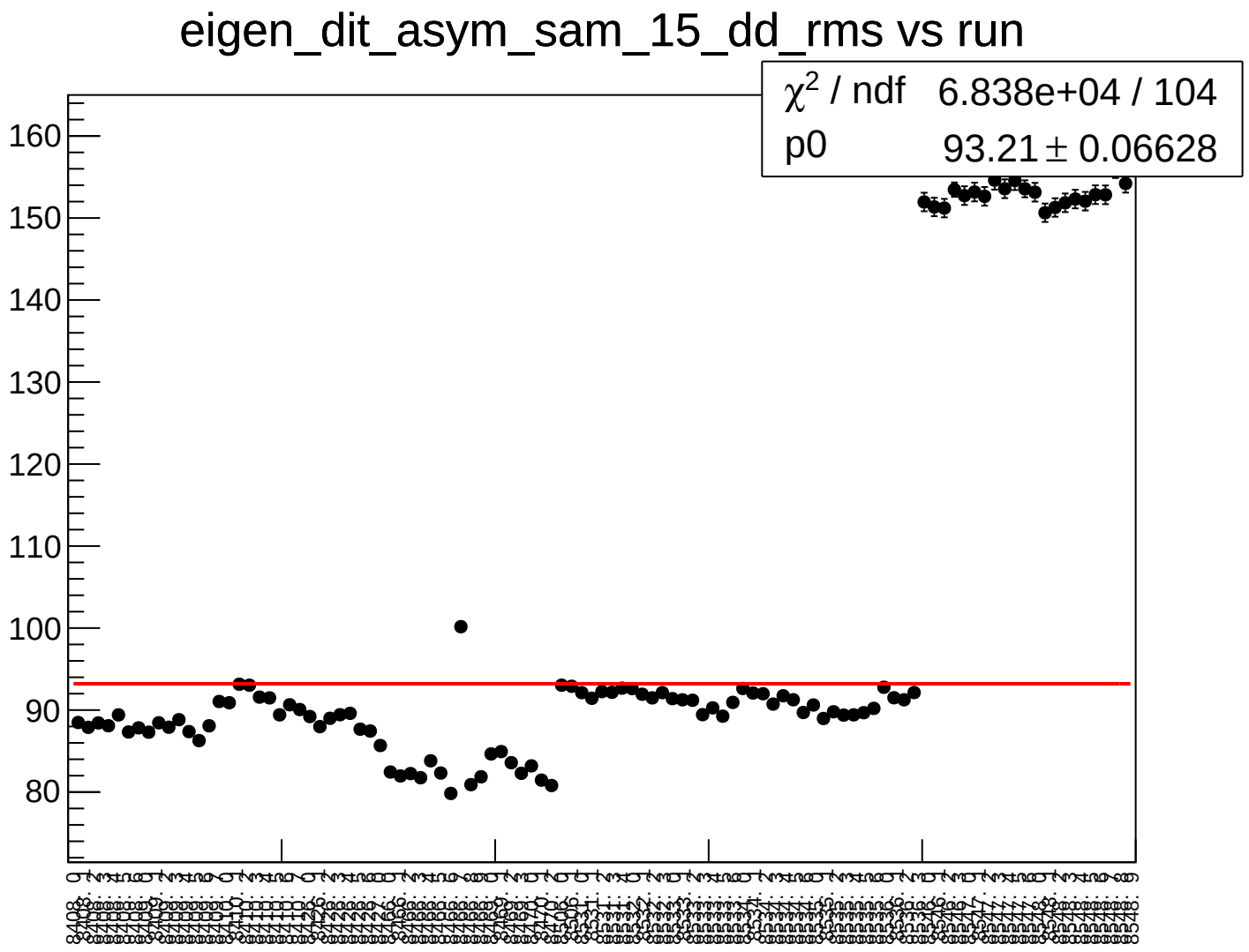

pull1D
Entries 105
Mean −0.008623
Std Dev 0.9693
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

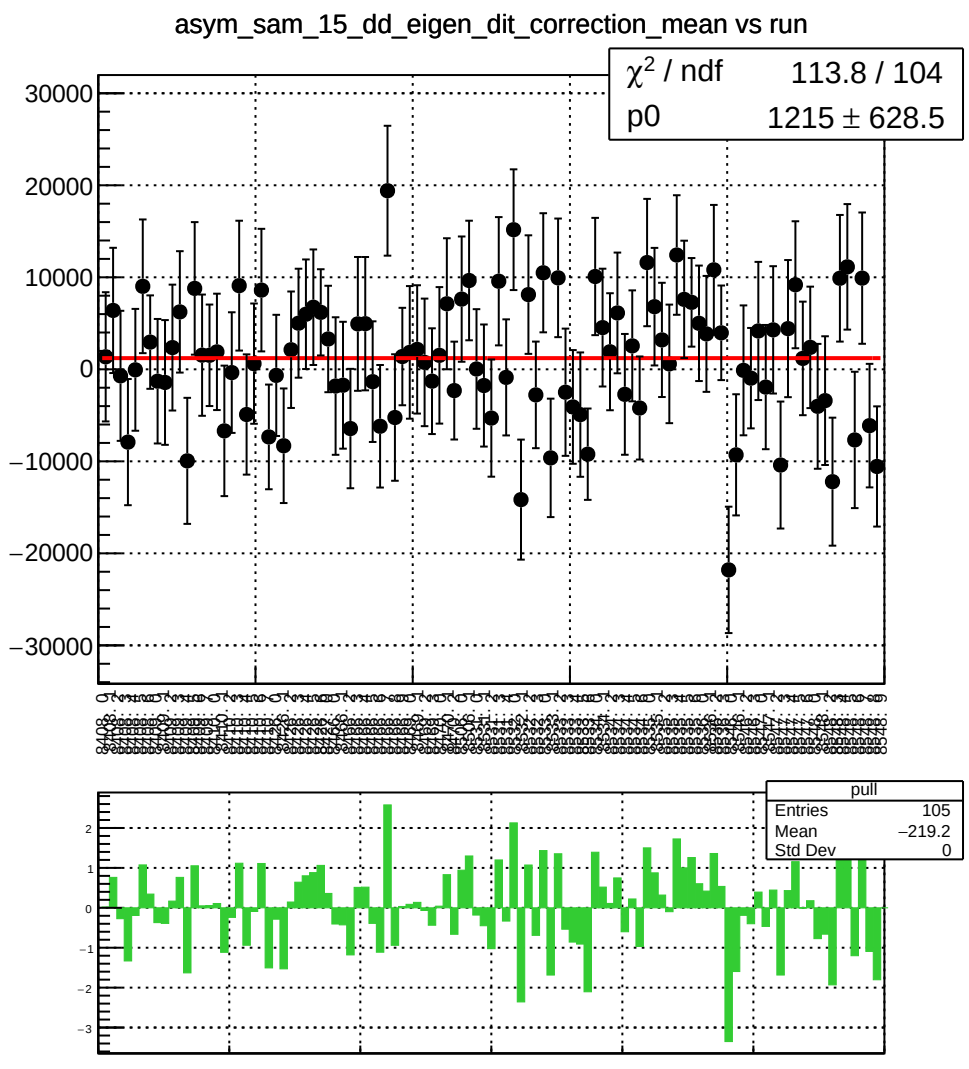

dit_asym_sam_15_dd_rms vs run
χ^2 / ndf 6.838e+04 / 104
p0 93.21 ± 0.06628
160
150
140
130
120
110
100
90
80

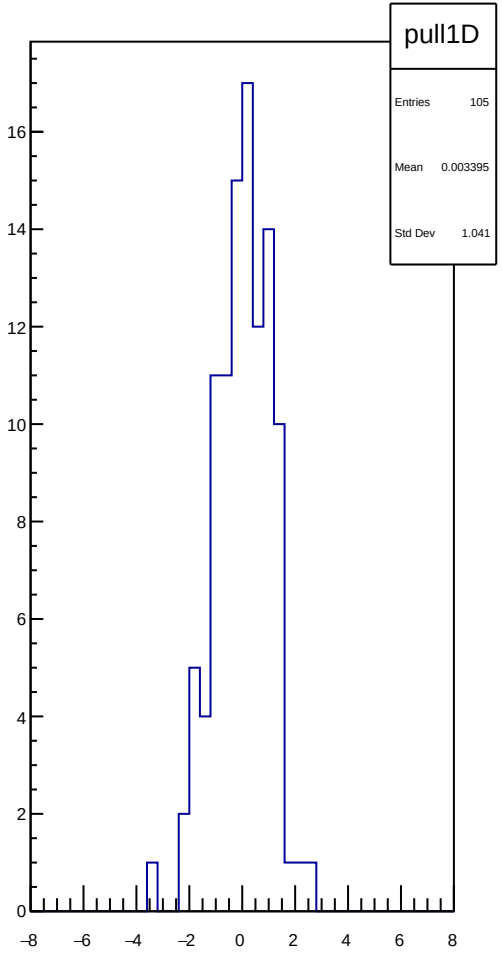

asym_sam_15_dd_dit_correction_mean vs run
χ² / ndf 113.8 / 104
p0 1215 ± 628.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 105
Mean −219.2
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 105
Mean 0.003395
Std Dev 1.041
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

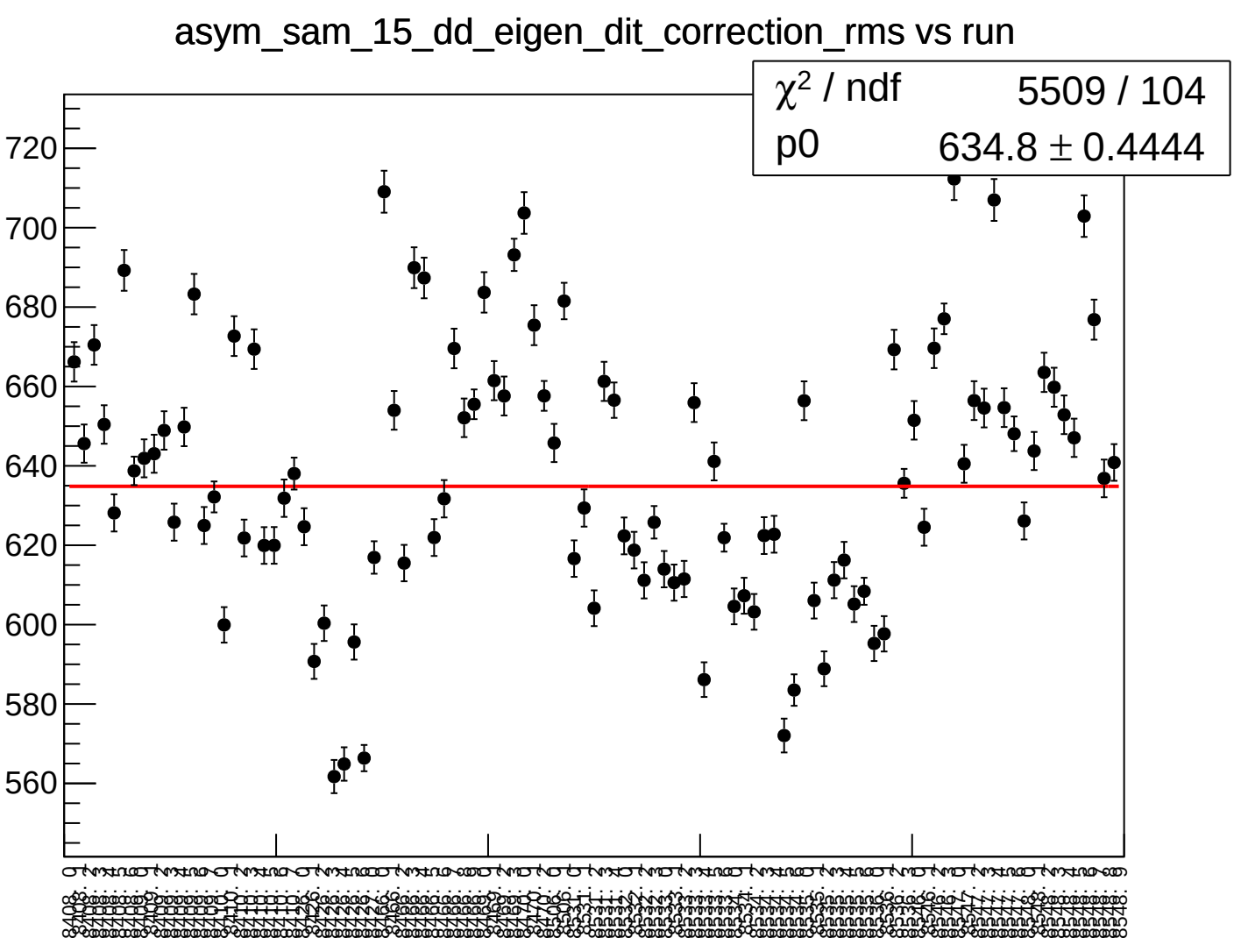

asym_sam_15_dd_dit_correction_rms vs run
χ² / ndf 5510 / 104
p0 634.8 ± 0.4444
720
700
680
660
640
620
600
580
560

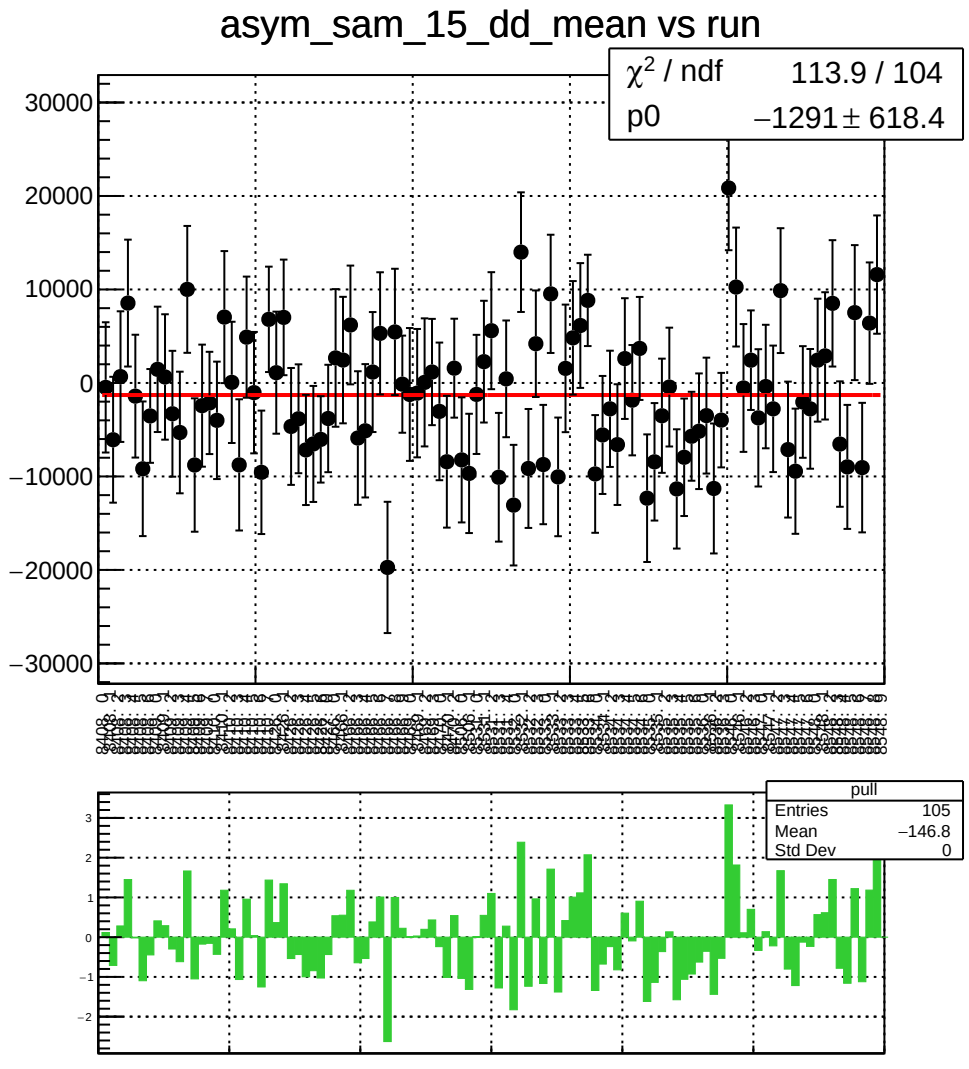

eigen_dit_asym_sam_15_dd_mean vs run
χ² / ndf 98.66 / 104
p0 −105.4 ± 93.73
4000
2000
0
−2000
−4000
−6000
pull
Entries 105
Mean −240.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.008623
Std Dev 0.9693
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

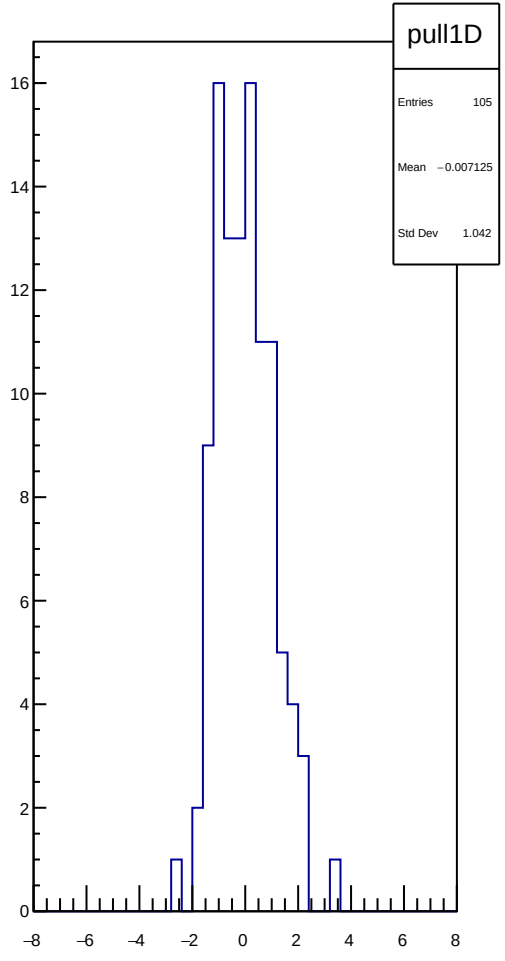

eigen_dit_asym_sam_15_dd_rms vs run
χ^2 / ndf 6.838e+04 / 104
p0 93.21 ± 0.06628
160
150
140
130
120
110
100
90
80

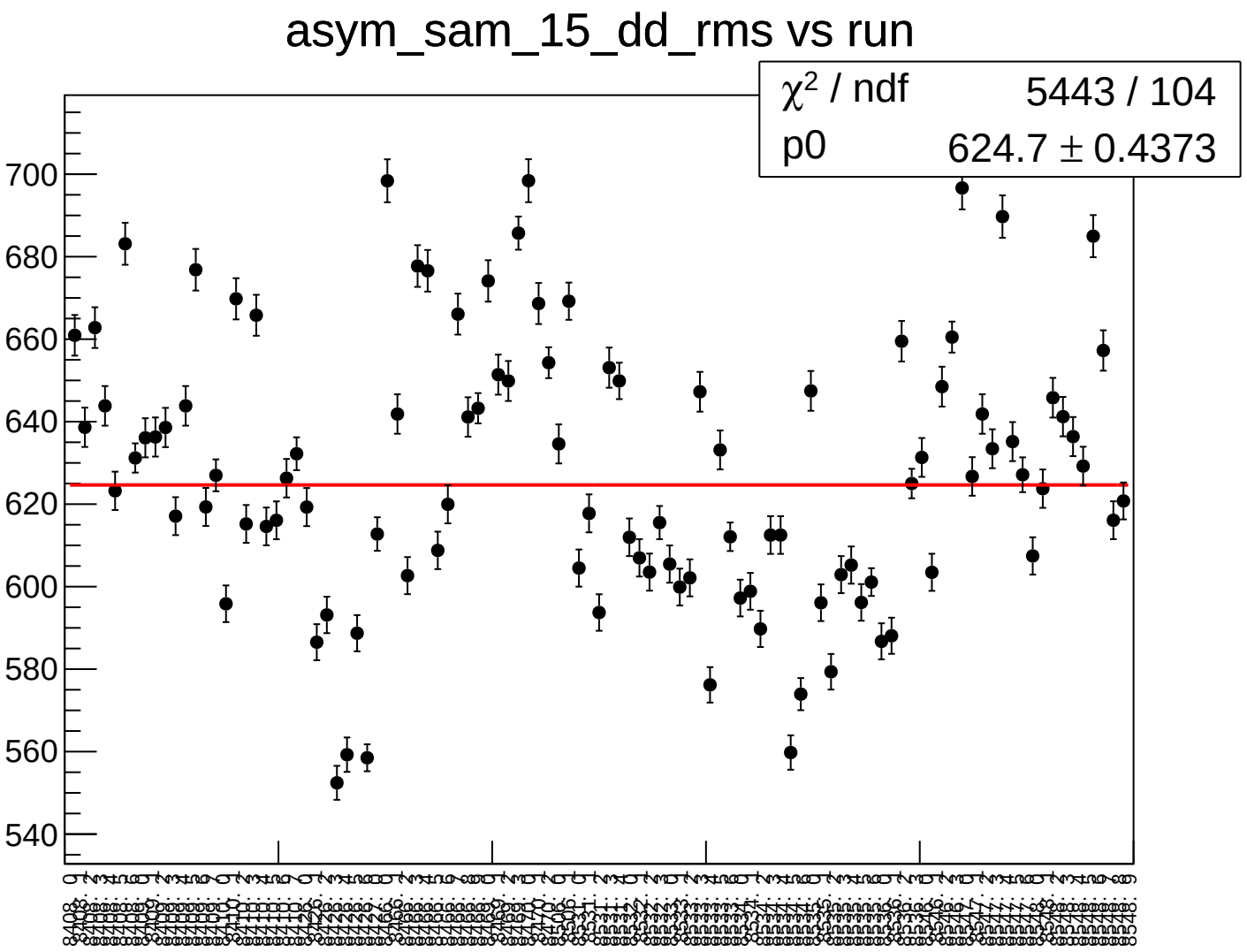

asym_sam_15_dd_eigen_dit_correction_mean vs run
χ² / ndf 113.8 / 104
p0 1215 ± 628.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 105
Mean −219.2
Std Dev 0
2
1
0
−1
−2
−3

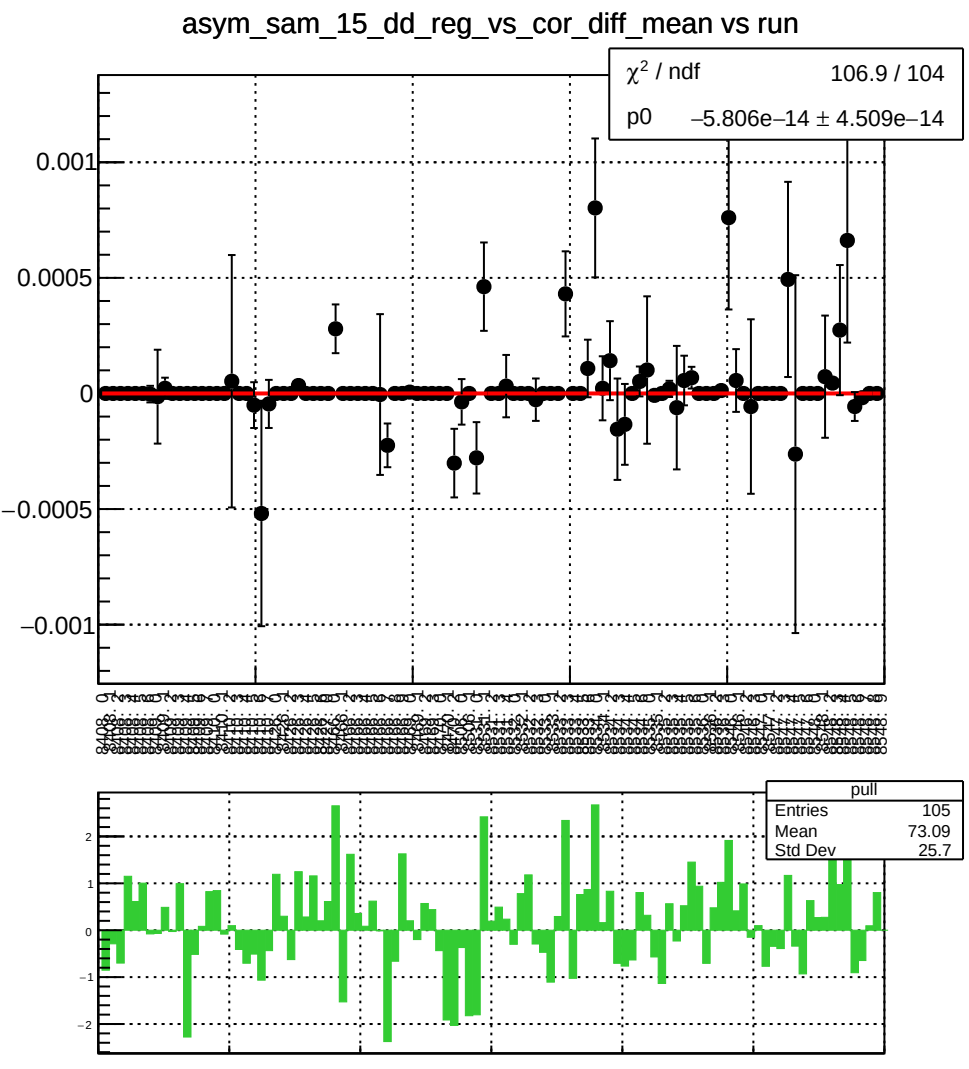

pull1D
Entries 105
Mean 0.003395
Std Dev 1.041
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

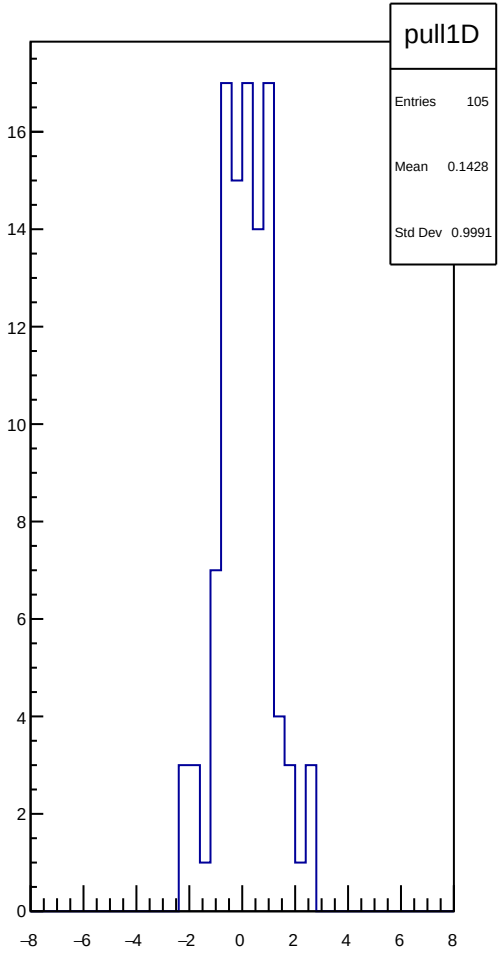

asym_sam_15_dd_eigen_dit_correction_rms vs run
χ² / ndf 5509 / 104
p0 634.8 ± 0.4444
720
700
680
660
640
620
600
580
560

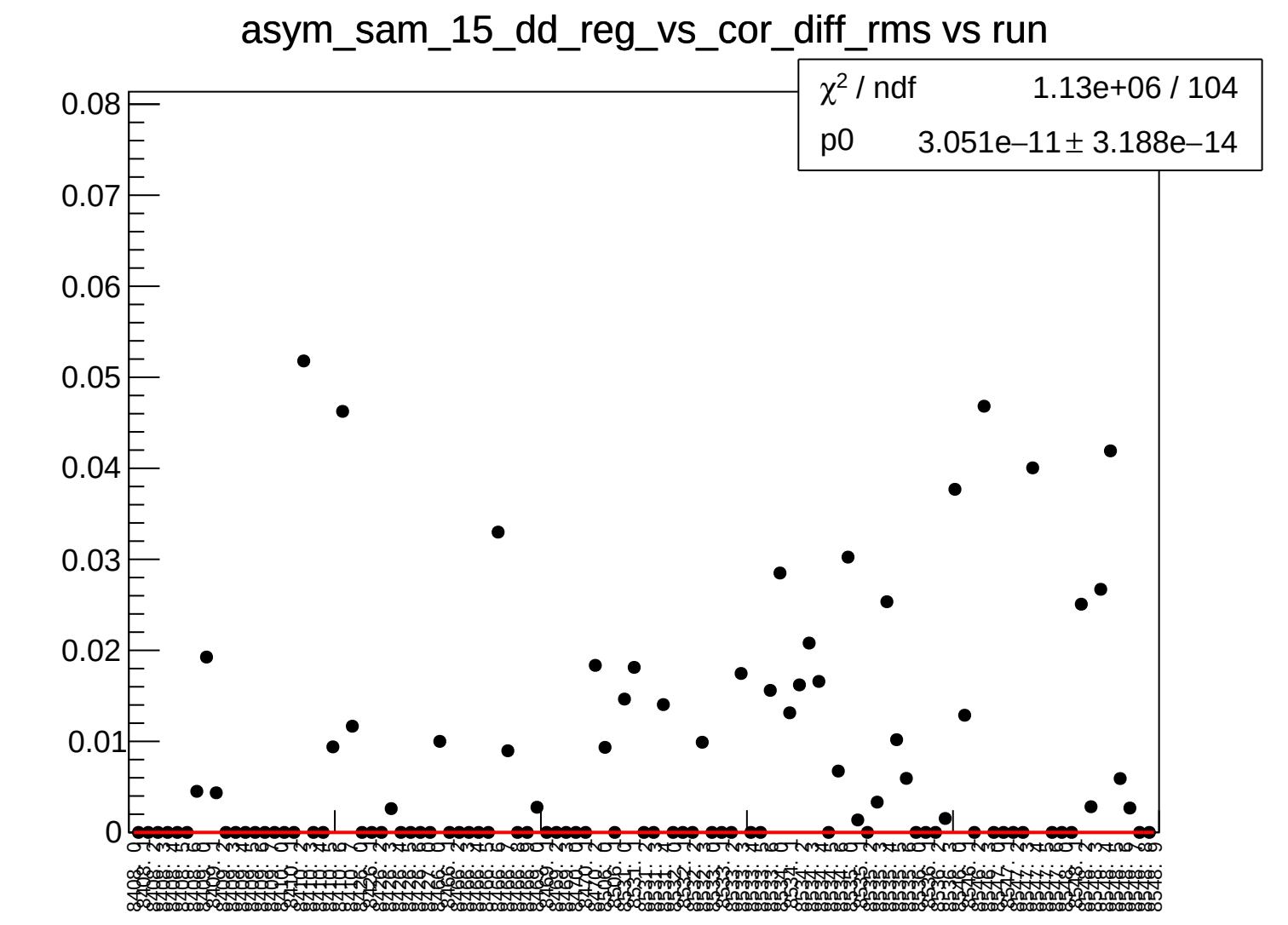

asym_sam_15_dd_mean vs run
χ² / ndf 113.9 / 104
p0 −1291 ± 618.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 105
Mean −146.8
Std Dev 0
3
2
1
0
−1
−2

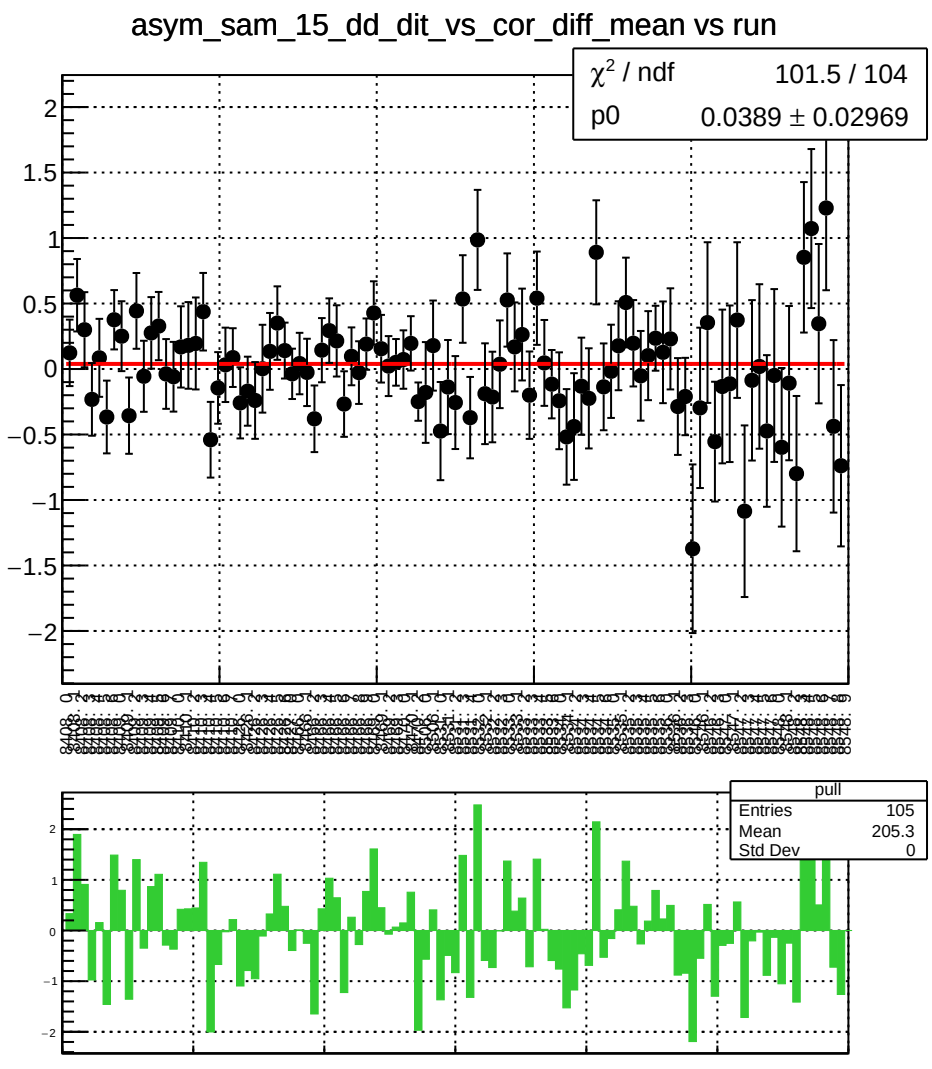

pull1D
Entries 105
Mean −0.007125
Std Dev 1.042
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

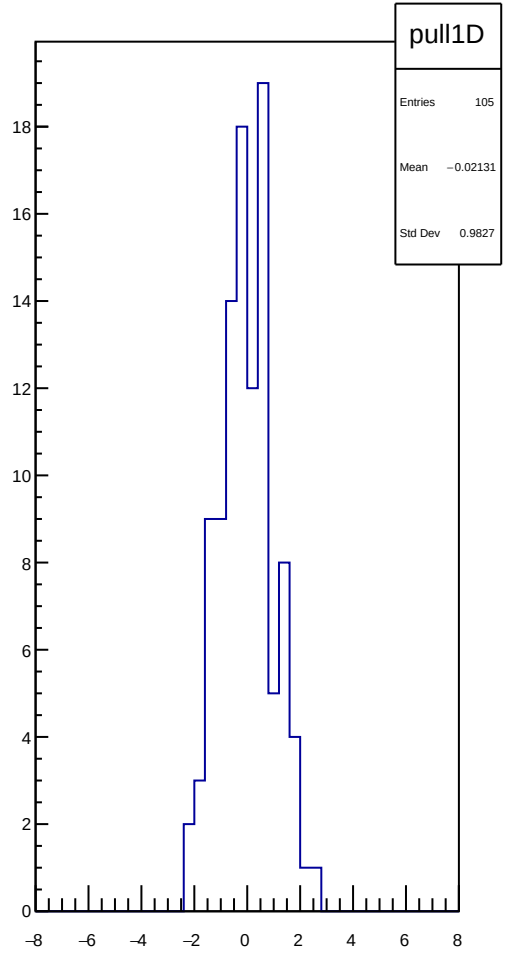

asym_sam_15_dd_rms vs run
χ² / ndf 5443 / 104
p0 624.7 ± 0.4373
700
680
660
640
620
600
580
560
540

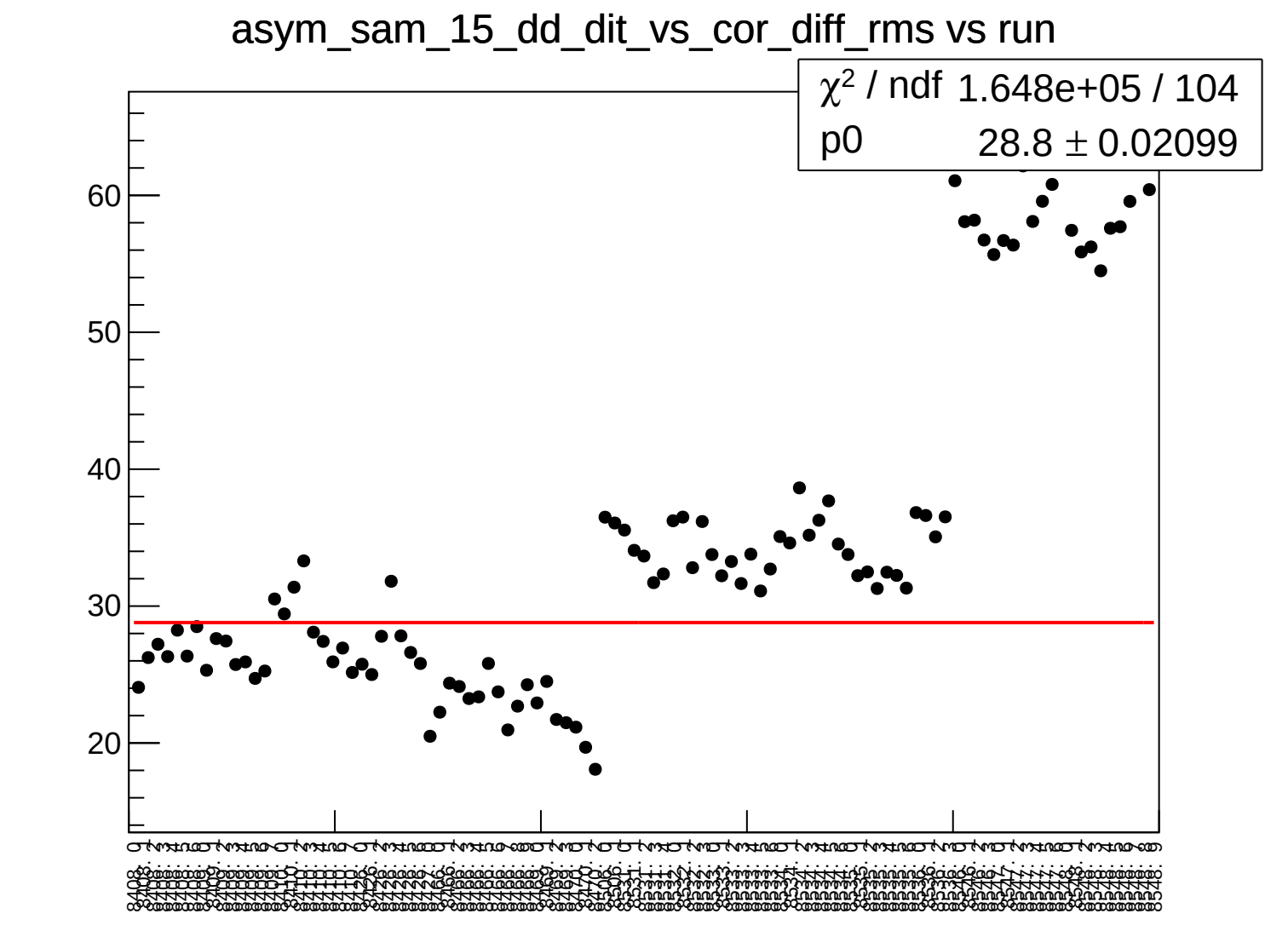

asym_sam_15_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 106.9 / 104
p0 −5.806e−14 ± 4.509e−14
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 105
Mean 73.09
Std Dev 25.7
2
1
0
−1
−2

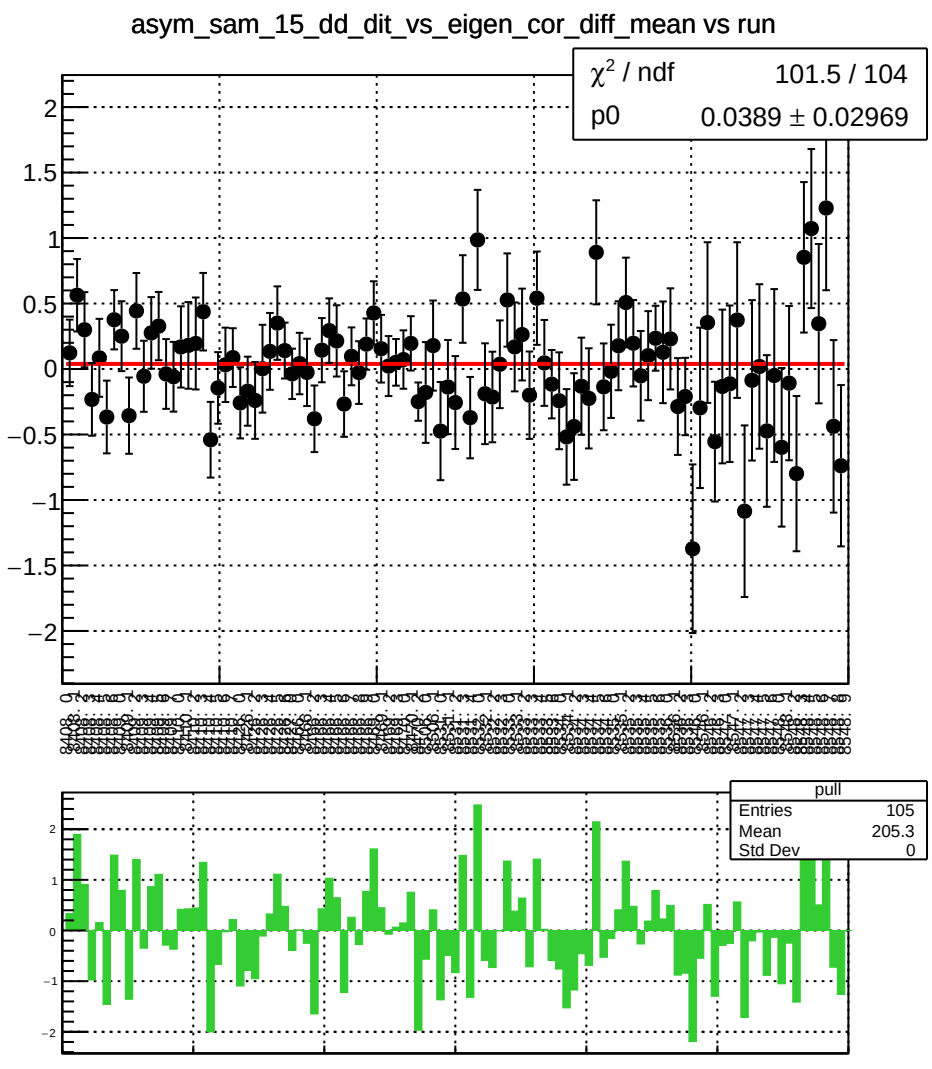

pull1D
Entries 105
Mean 0.1428
Std Dev 0.9991
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

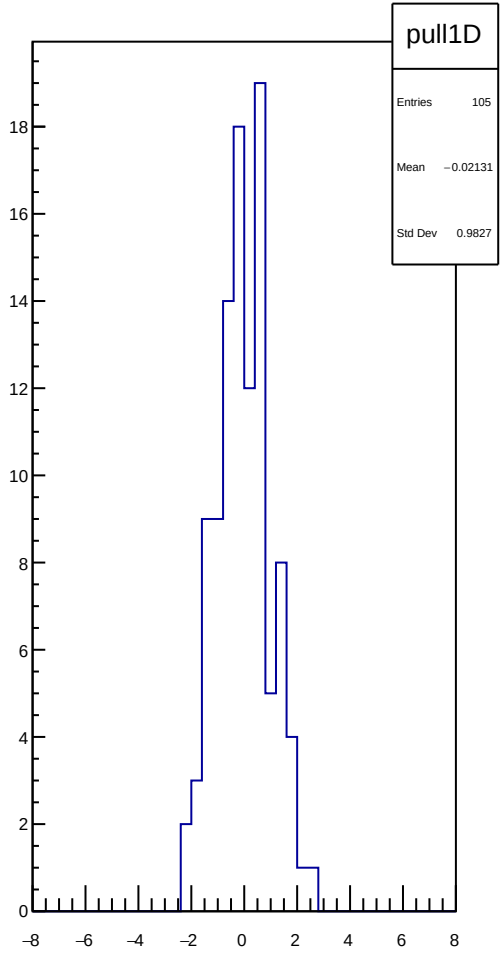

asym_sam_15_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.13e+06 / 104
p0 3.051e−11 ± 3.188e−14
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

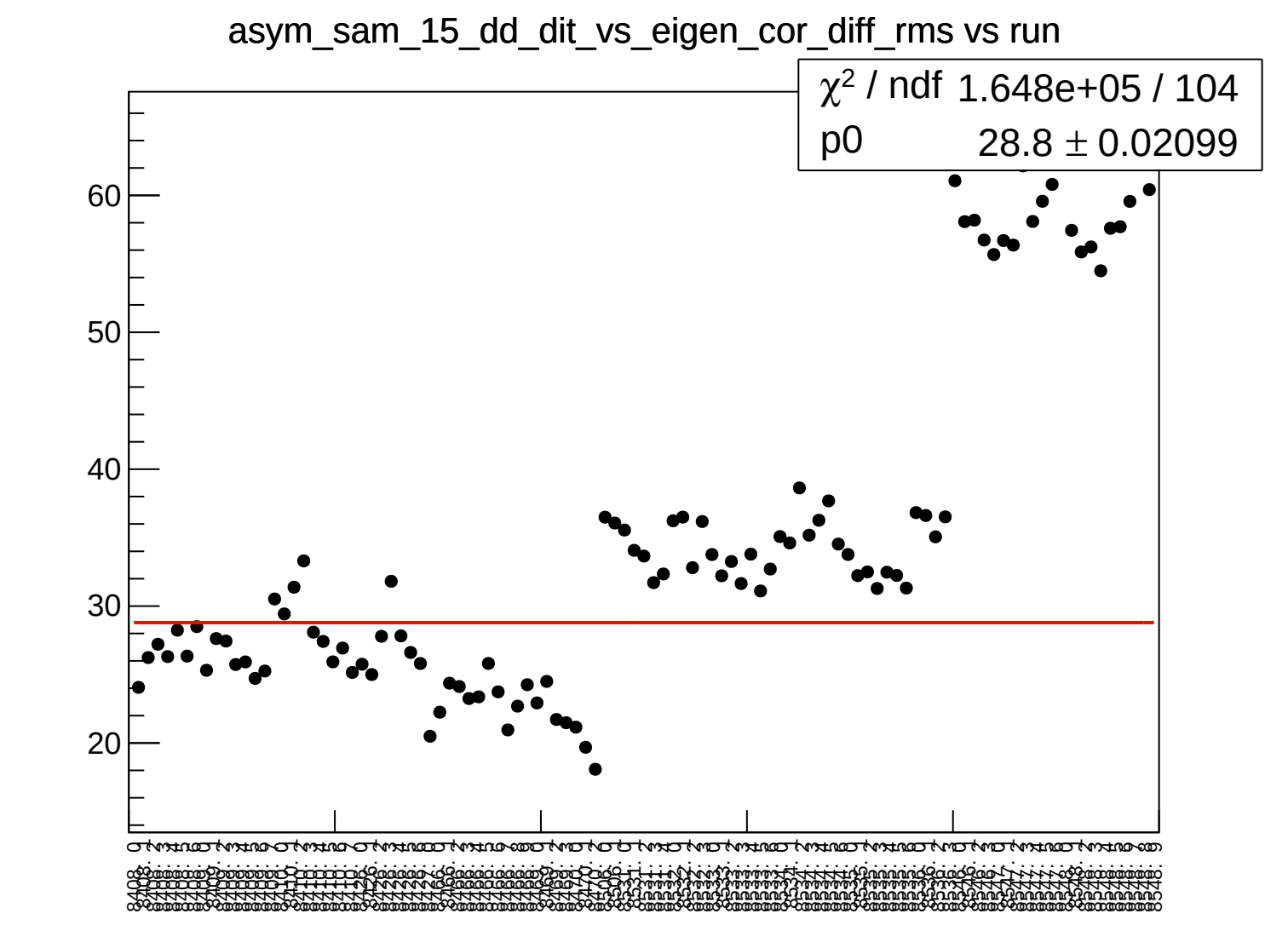

asym_sam_15_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 101.5 / 104
p0 0.0389 ± 0.02969
pull
Entries 105
Mean 205.3
Std Dev 0

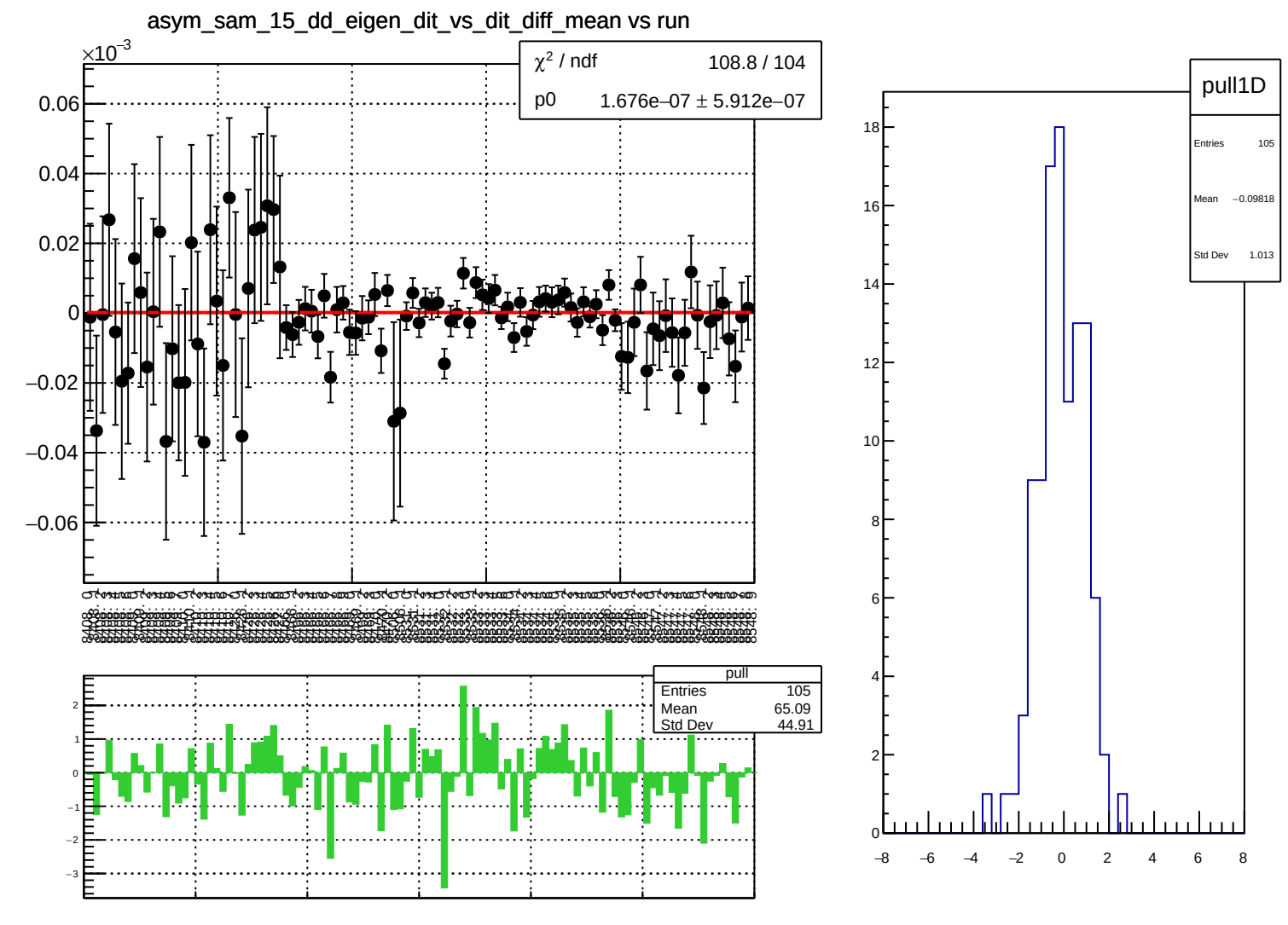

pull1D
Entries 105
Mean −0.02131
Std Dev 0.9827

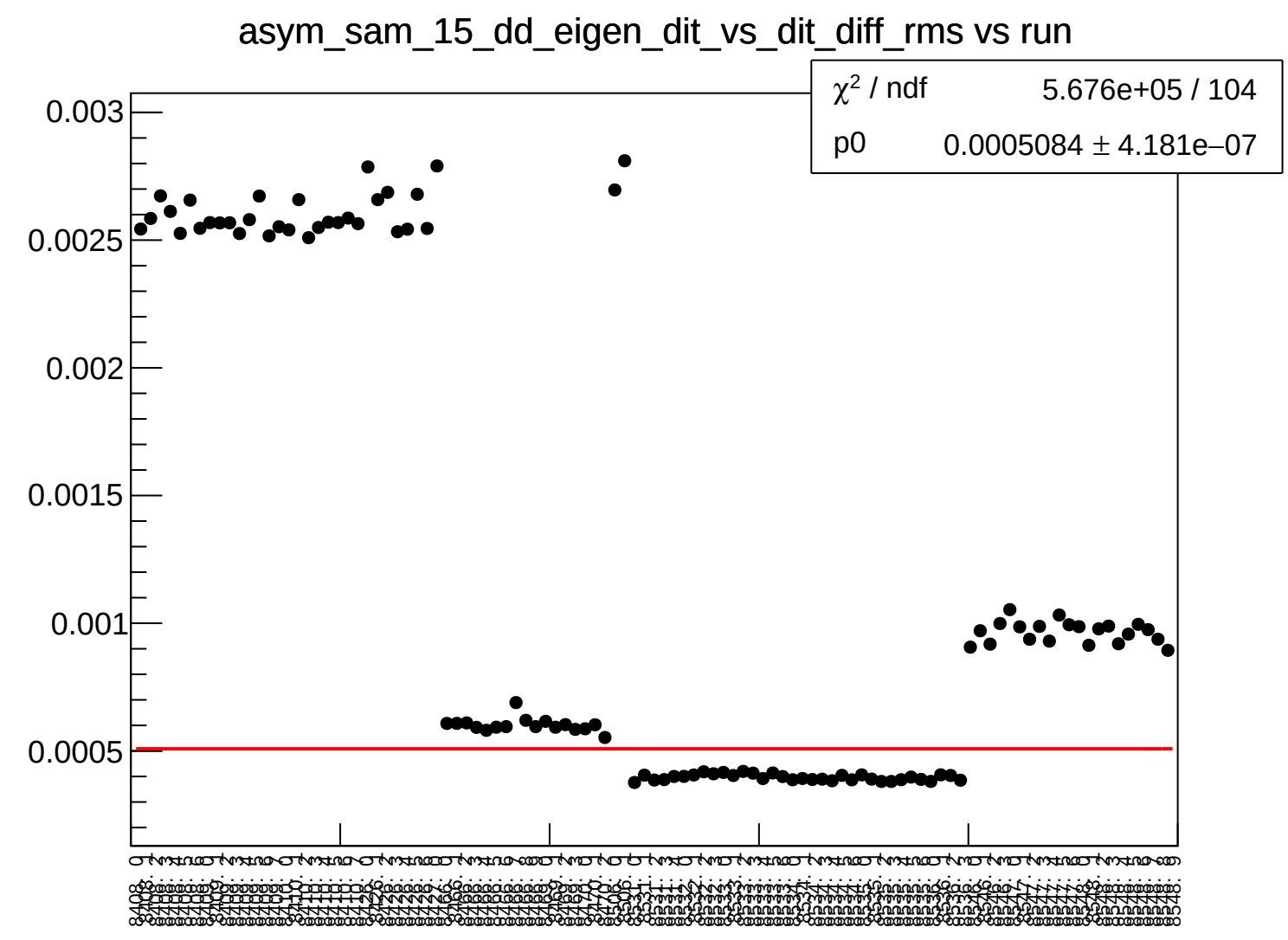

asym_sam_15_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.648e+05 / 104
p0 28.8 ± 0.02099
60
50
40
30
20

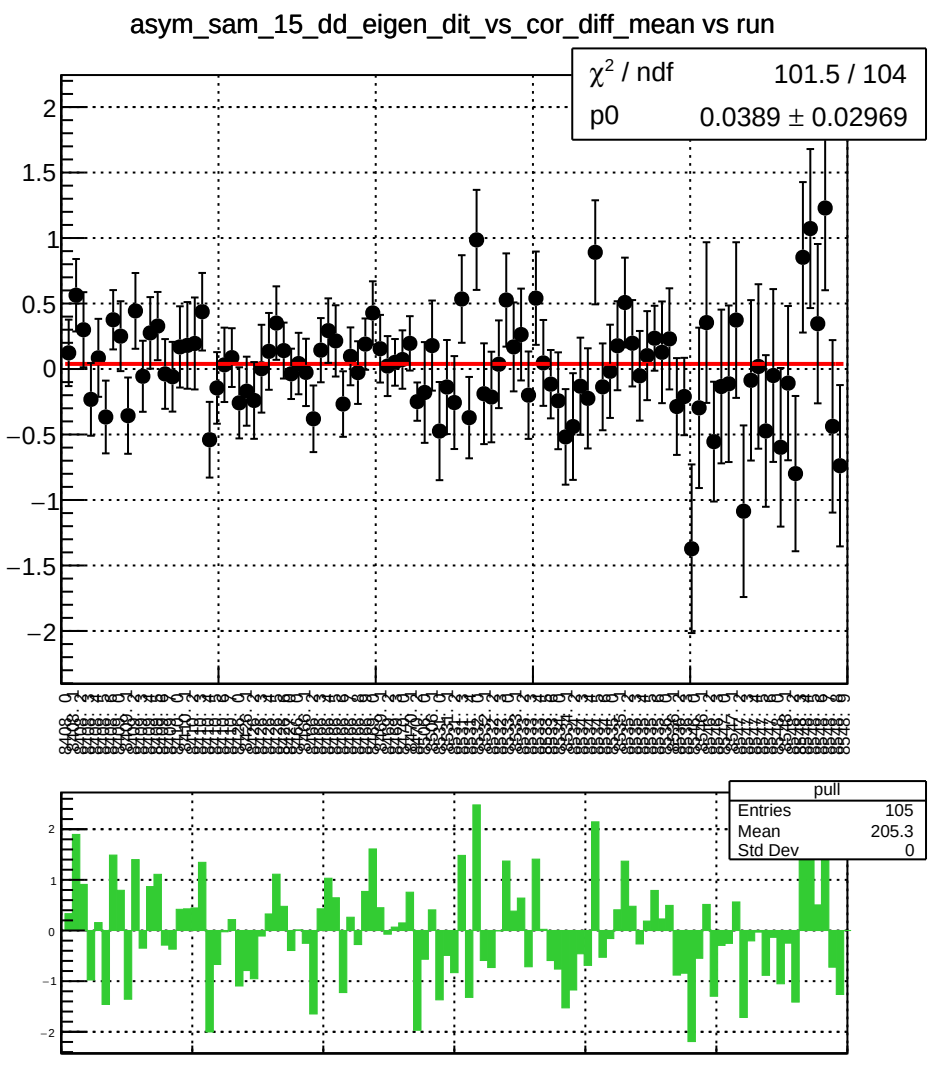

asym_sam_15_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.5 / 104
p0 0.0389 ± 0.02969
pull
Entries 105
Mean 205.3
Std Dev 0

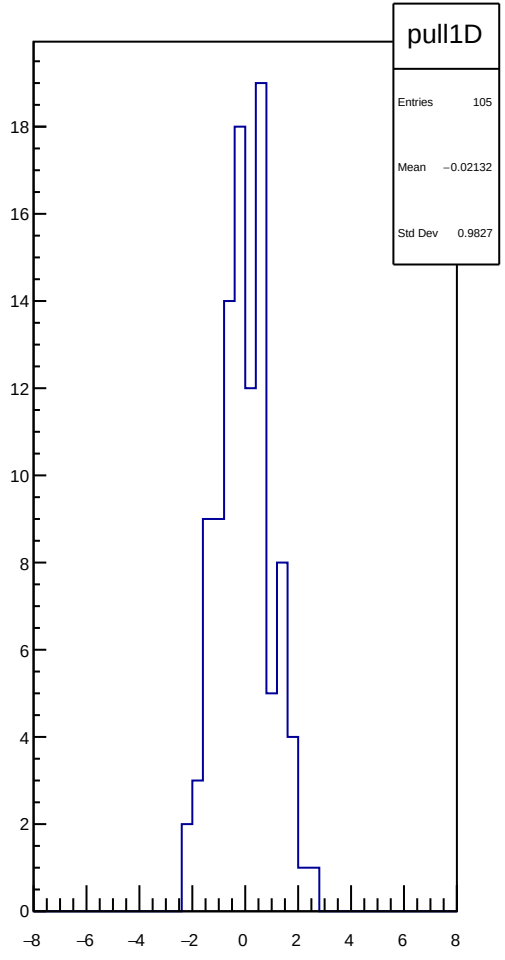

pull1D
Entries 105
Mean −0.02131
Std Dev 0.9827

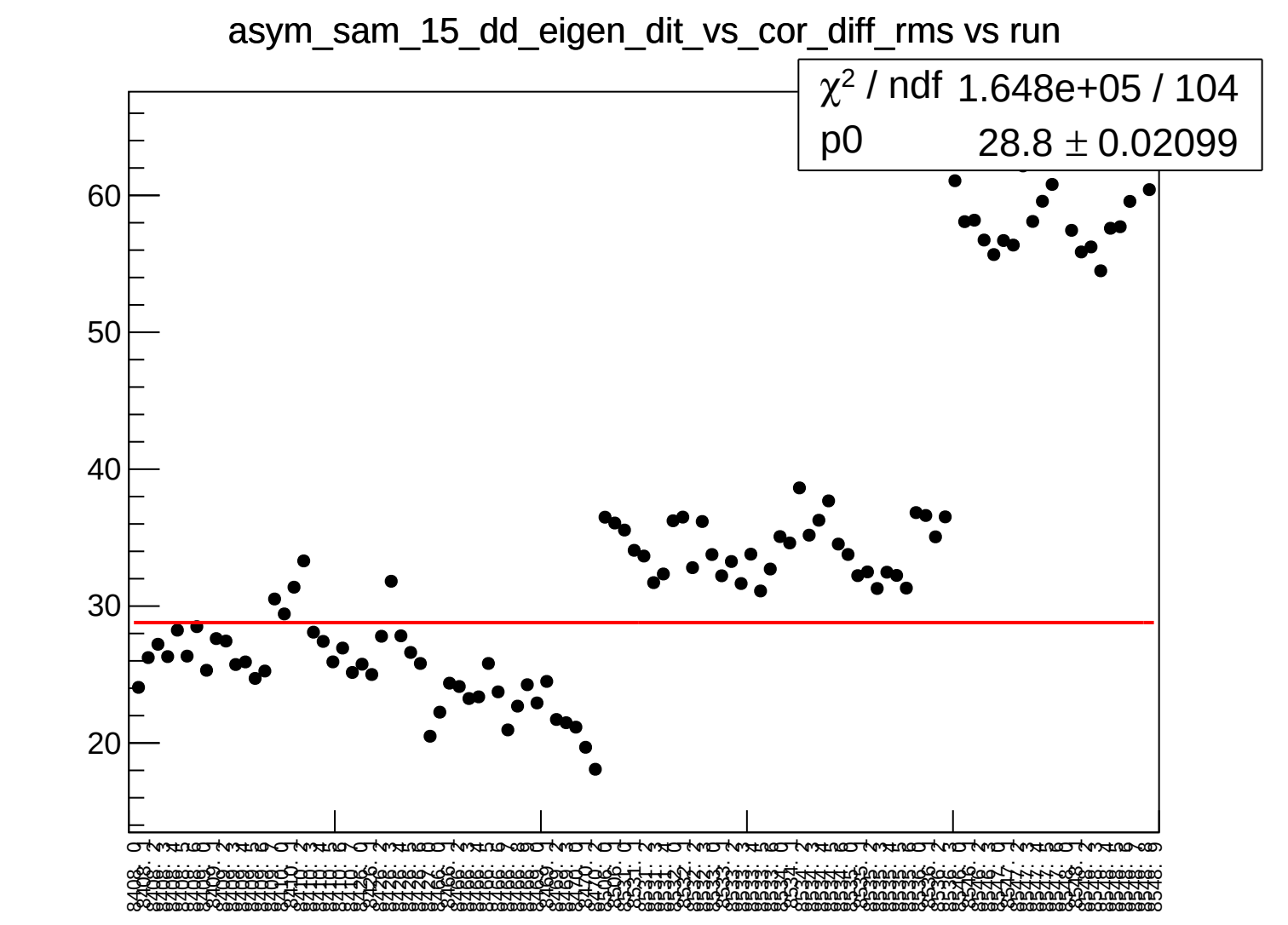

asym_sam_15_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.648e+05 / 104
p0 28.8 ± 0.02099
60
50
40
30
20

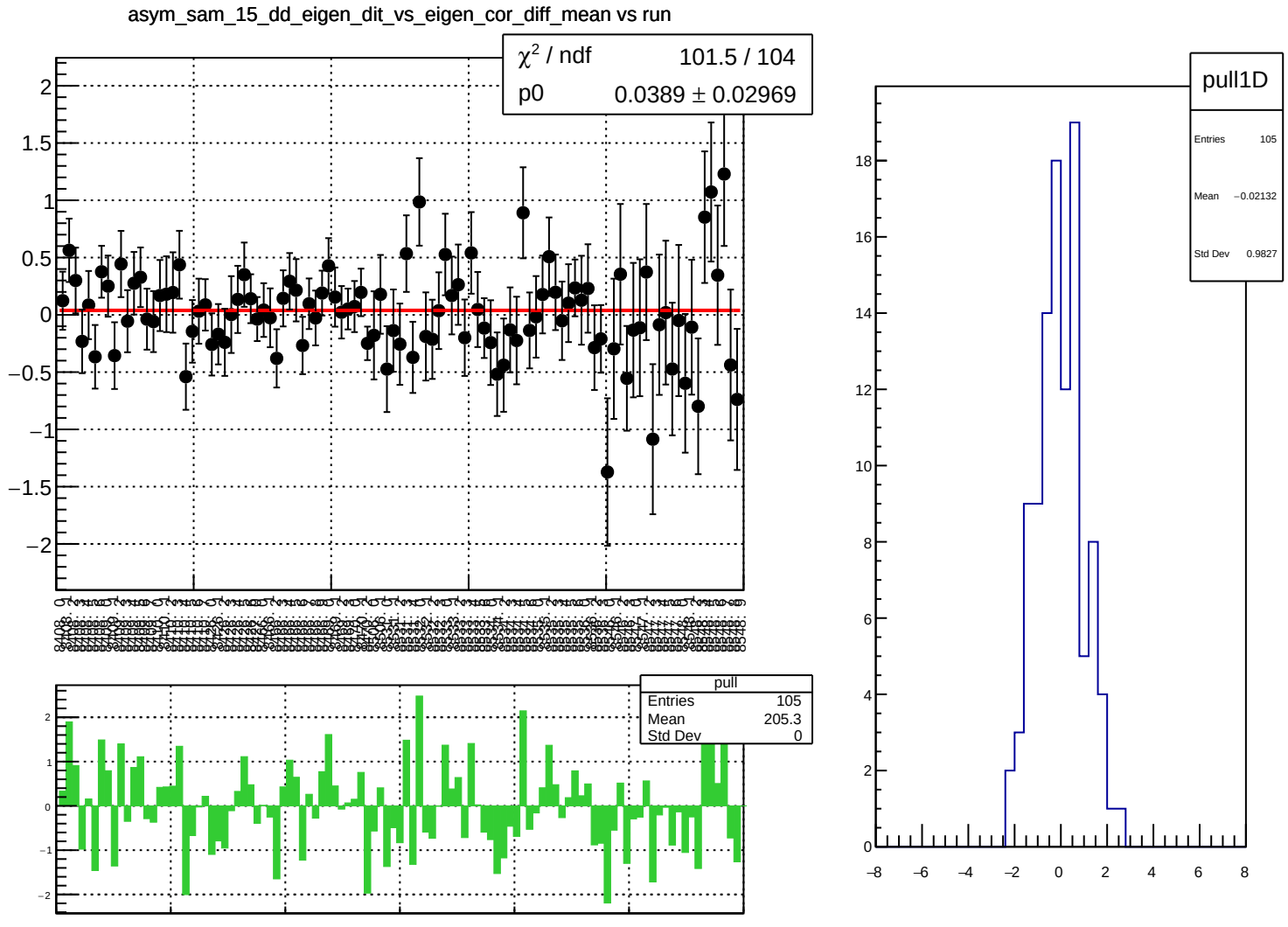

asym_sam_15_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 108.8 / 104
p0 1.676e−07 ± 5.912e−07
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 105
Mean 65.09
Std Dev 44.91
2
1
0
−1
−2
−3
pull1D
Entries 105
Mean −0.09818
Std Dev 1.013
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

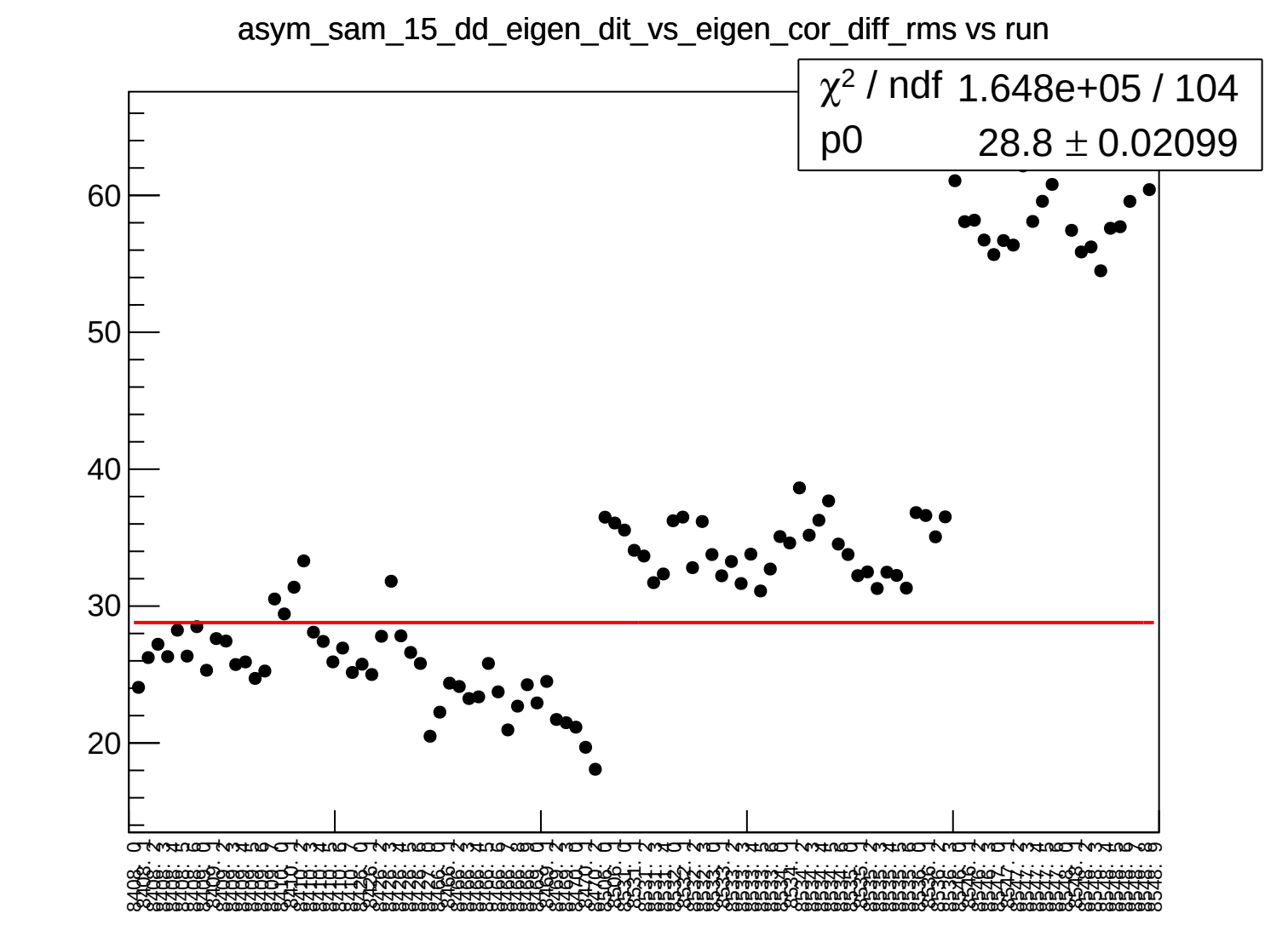

asym_sam_15_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 5.676e+05 / 104
p0 0.0005084 ± 4.181e−07
0.003
0.0025
0.002
0.0015
0.001
0.0005

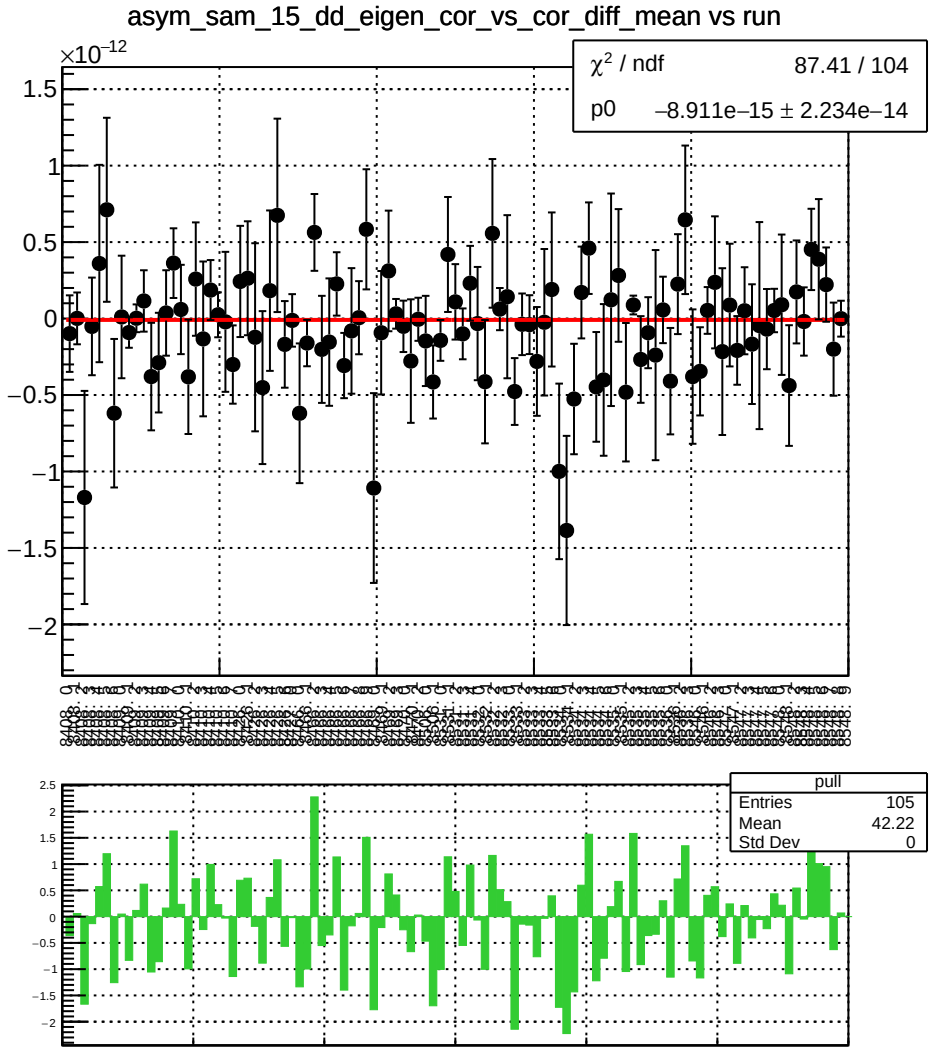

asym_sam_15_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 101.5 / 104
p0 0.0389 ± 0.02969
pull
Entries 105
Mean 205.3
Std Dev 0

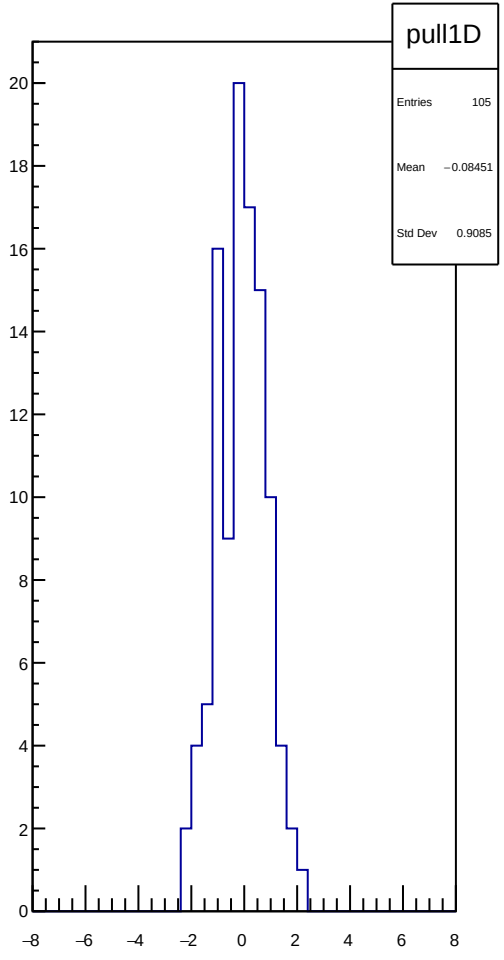

pull1D
Entries 105
Mean −0.02132
Std Dev 0.9827

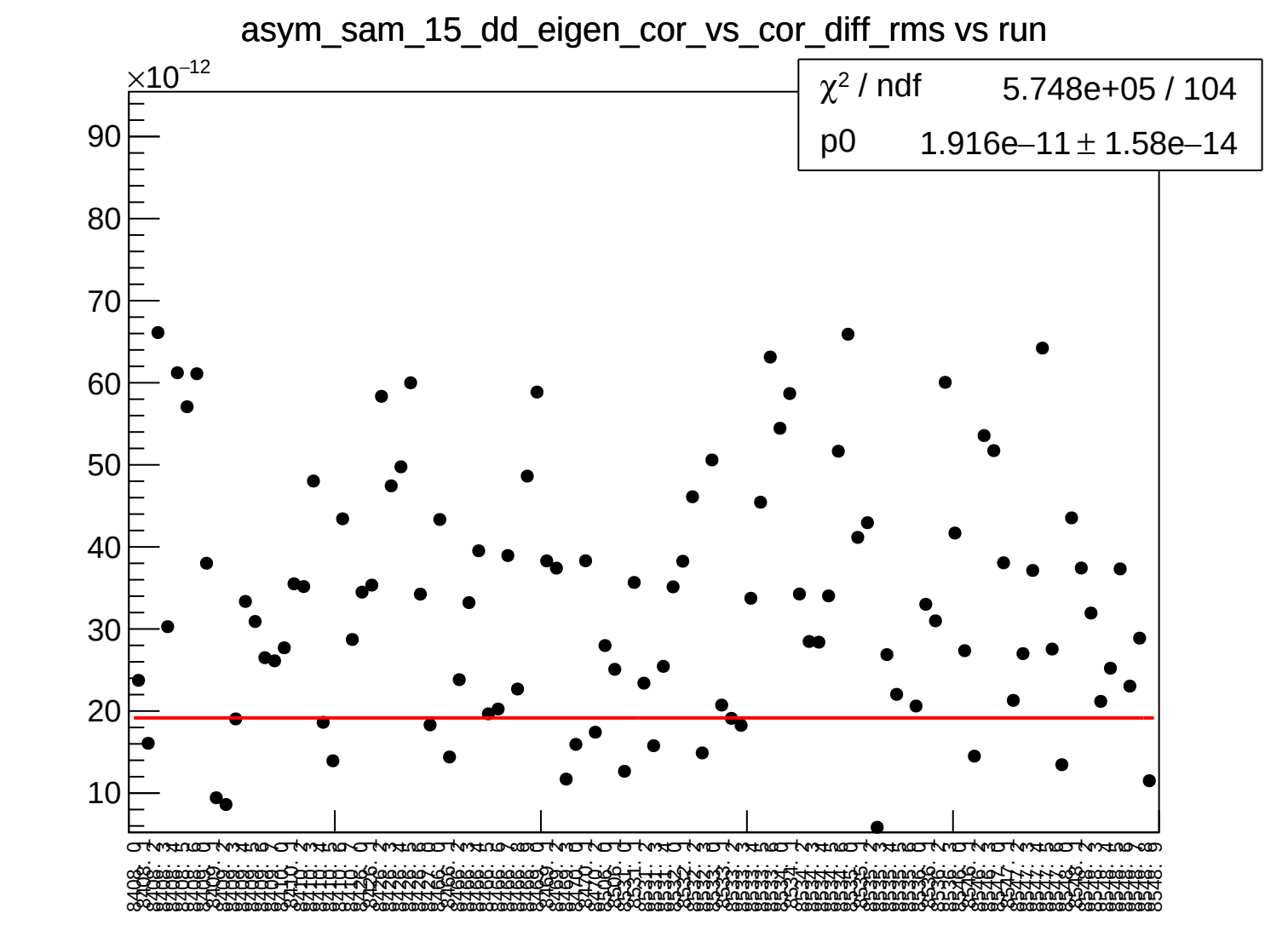

asym_sam_15_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.648e+05 / 104
p0 28.8 ± 0.02099
60
50
40
30
20

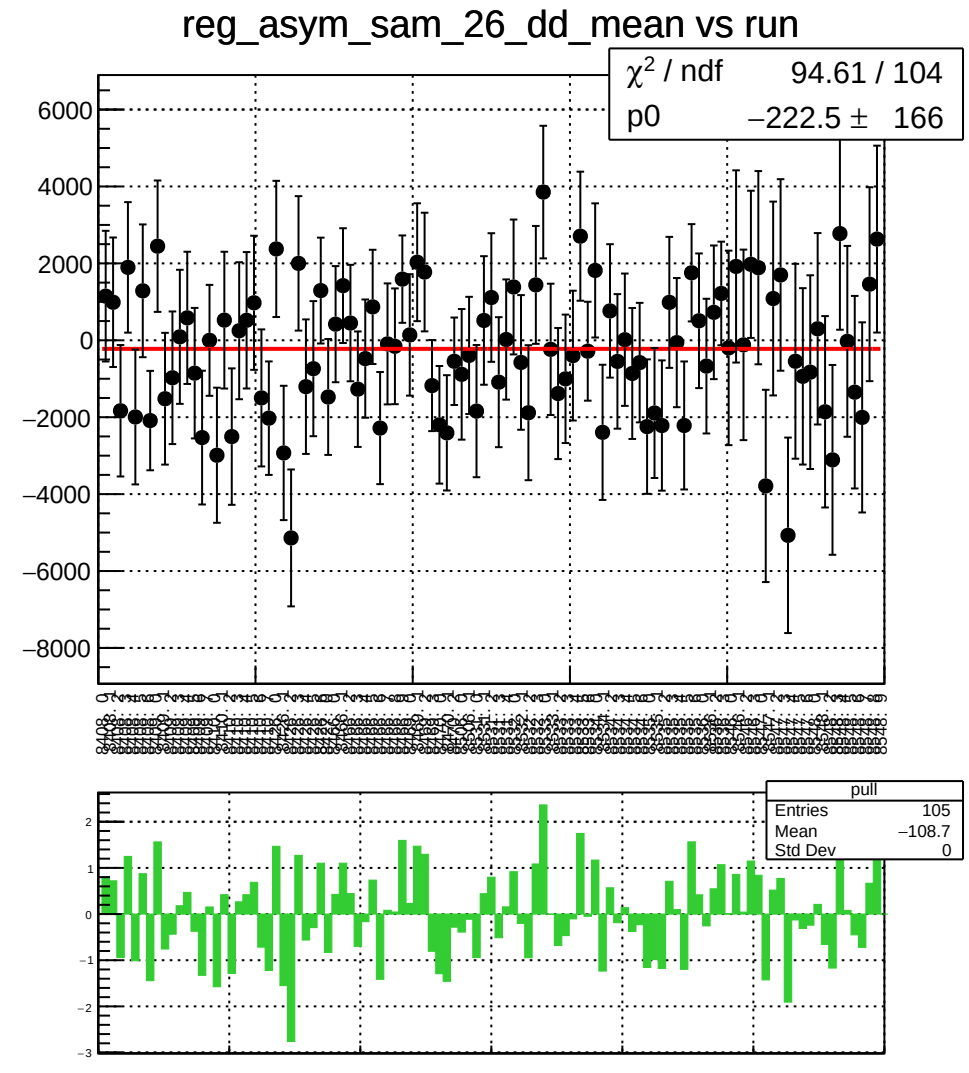

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 101.5 / 104
p0 0.0389 ± 0.02969
pull
Entries 105
Mean 205.3
Std Dev 0
pull1D
Entries 105
Mean −0.02132
Std Dev 0.9827

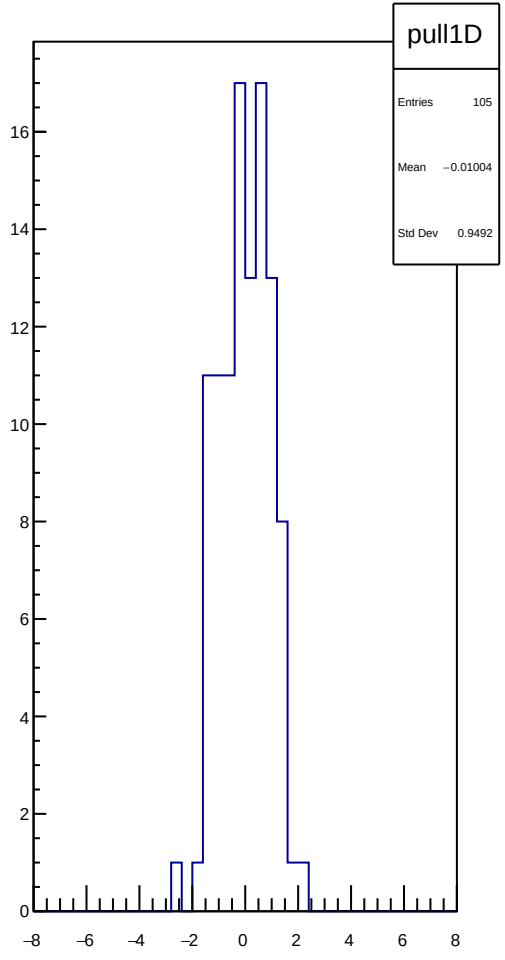

asym_sam_15_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.648e+05 / 104
p0 28.8 ± 0.02099
60
50
40
30
20

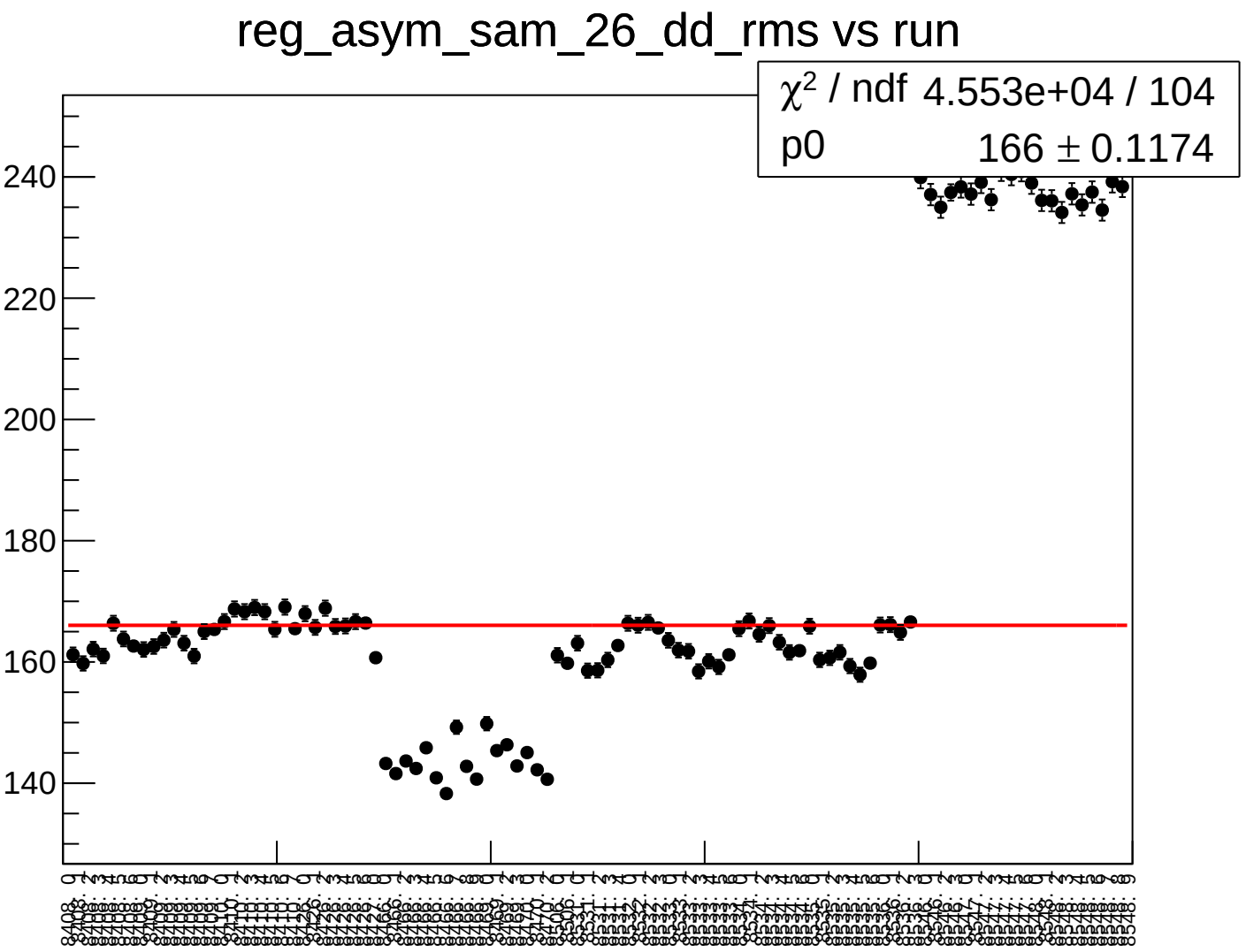

asym_sam_15_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 87.41 / 104
p0 −8.911e−15 ± 2.234e−14
pull
Entries 105
Mean 42.22
Std Dev 0

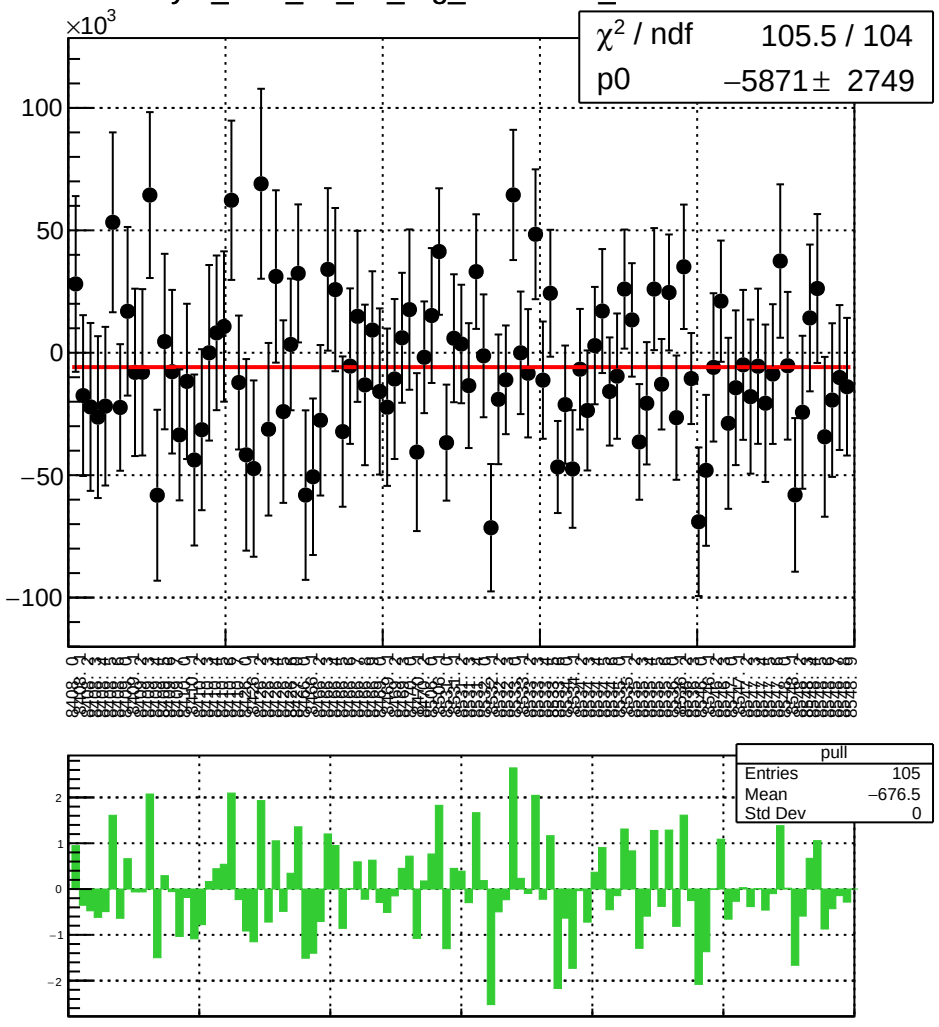

pull1D
Entries 105
Mean −0.08451
Std Dev 0.9085

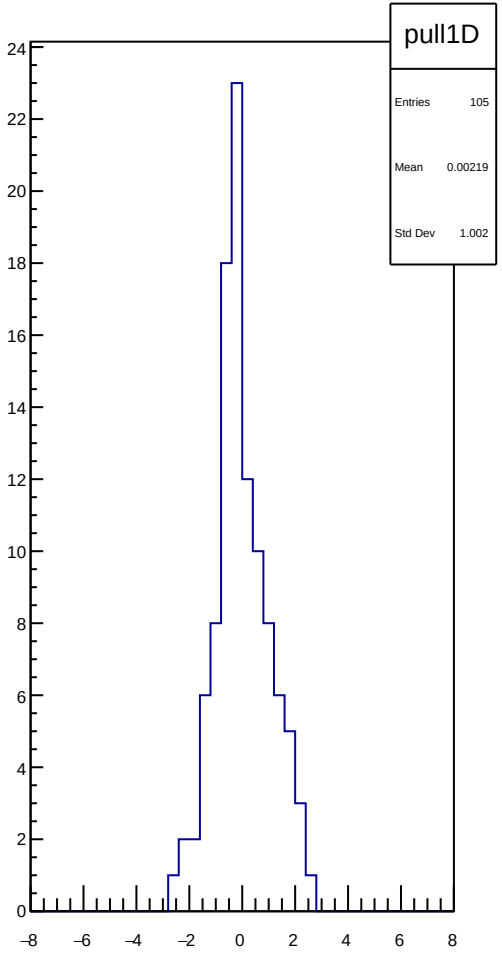

asym_sam_15_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.748e+05 / 104
p0 1.916e−11 ± 1.58e−14
90
80
70
60
50
40
30
20
10

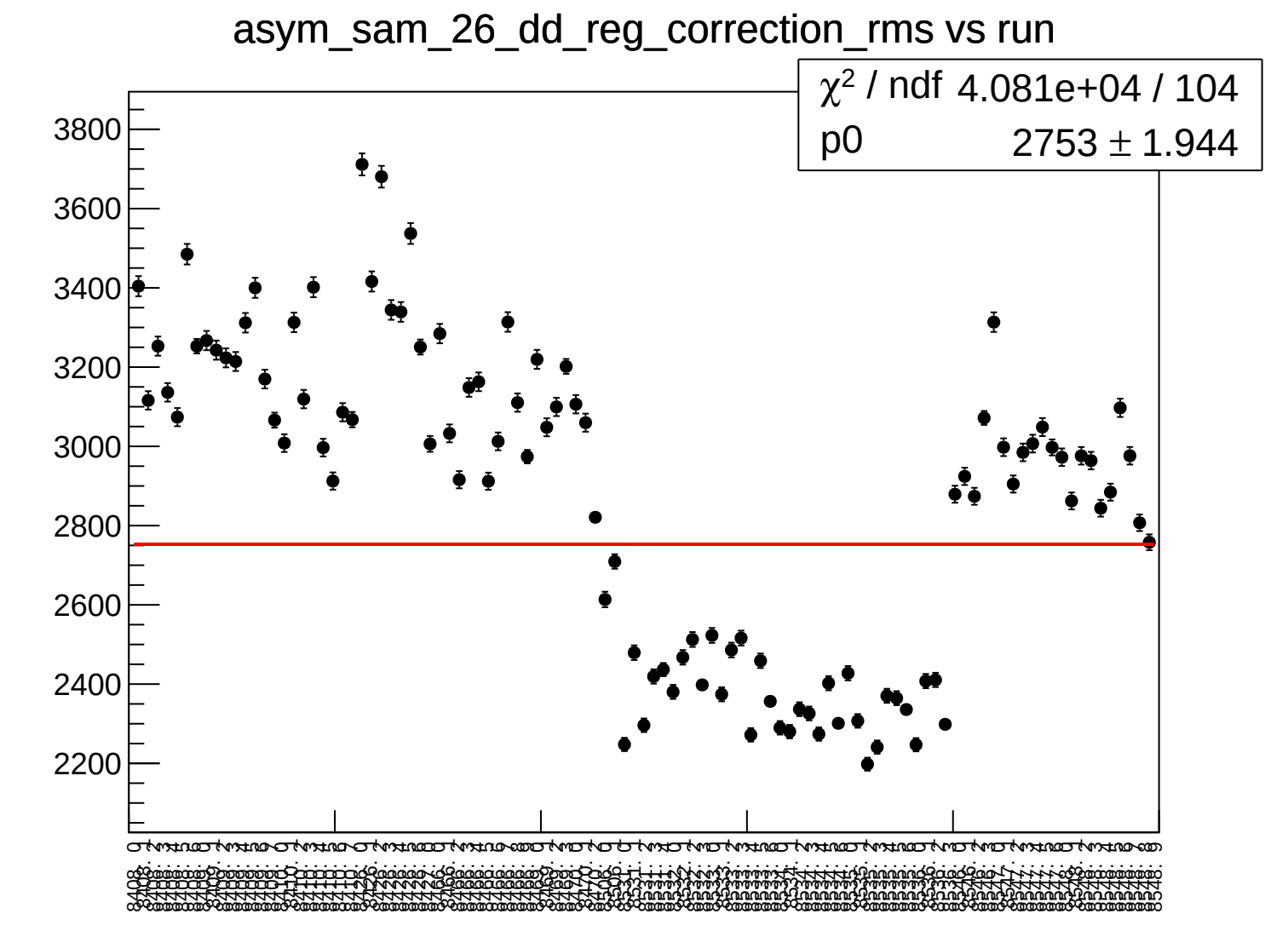

reg_asym_sam_26_dd_mean vs run
χ² / ndf 94.61 / 104
p0 −222.5 ± 166
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 105
Mean −108.7
Std Dev 0
2
1
0
−1
−2
−3

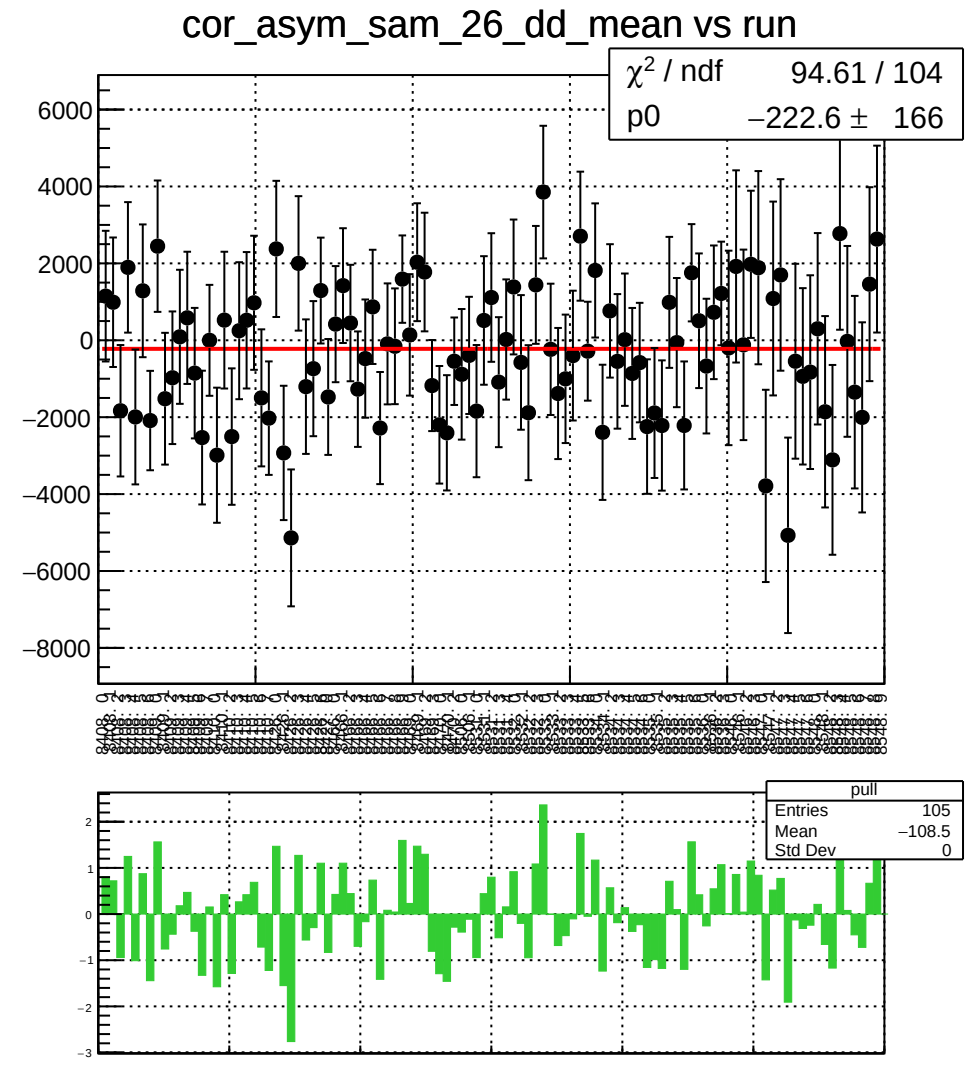

pull1D
Entries 105
Mean −0.01004
Std Dev 0.9492
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

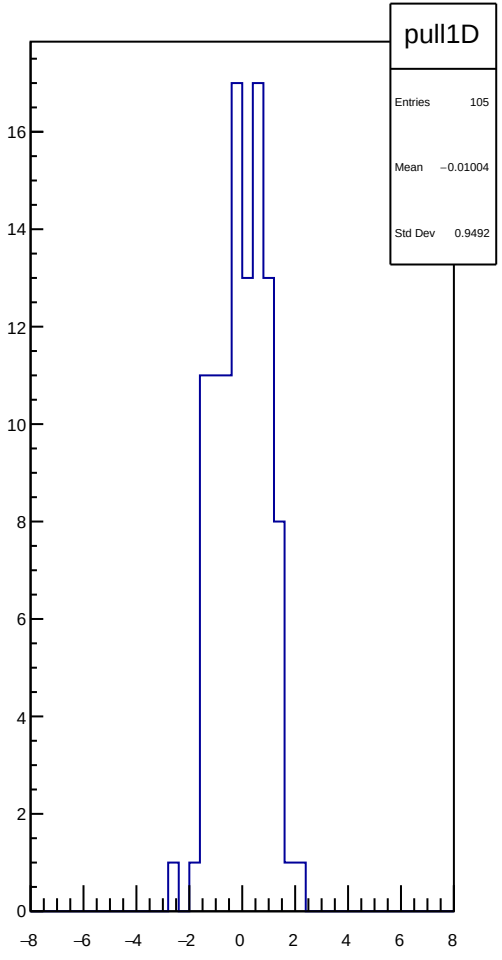

reg_asym_sam_26_dd_rms vs run
χ² / ndf 4.553e+04 / 104
p0 166 ± 0.1174
240
220
200
180
160
140

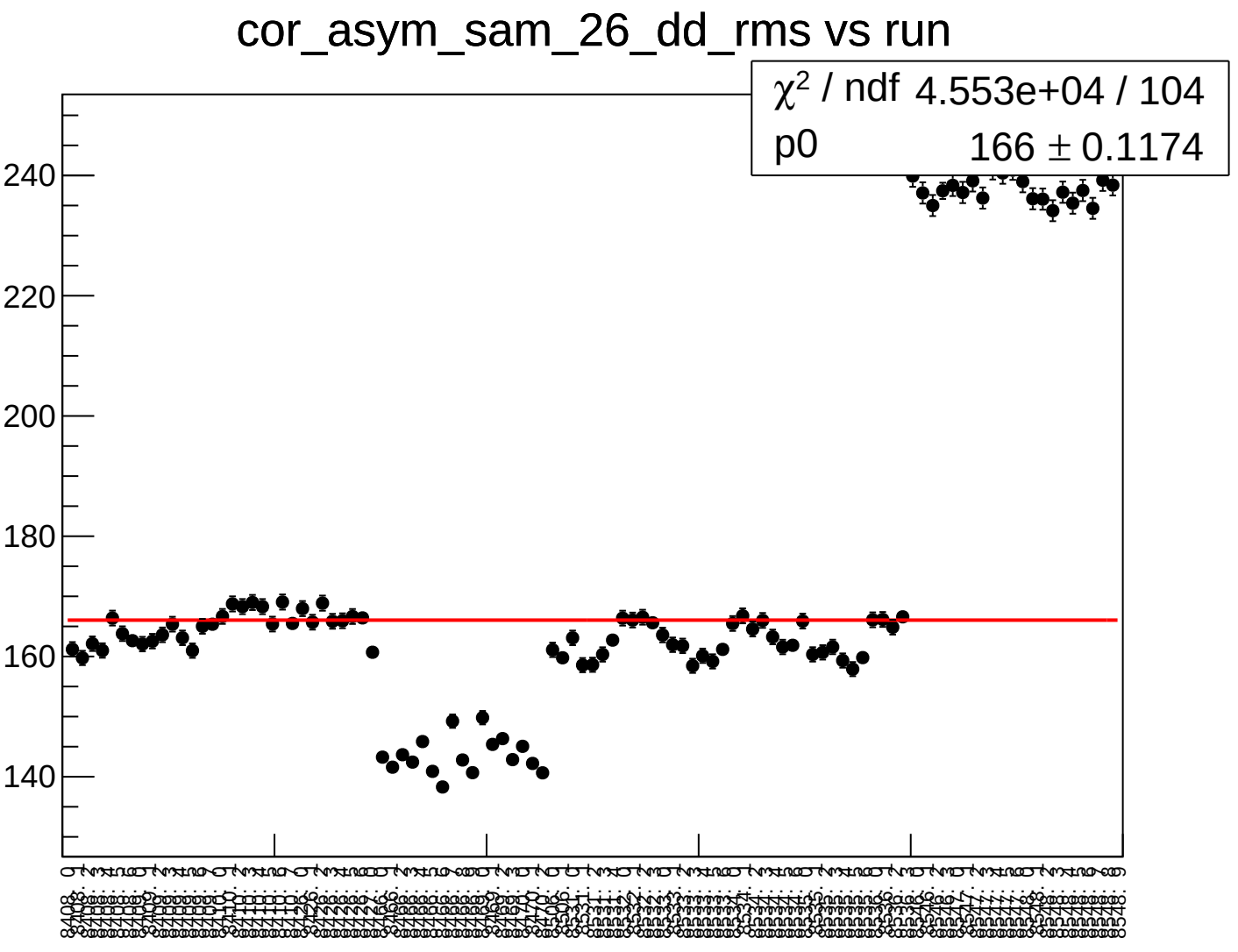

asym_sam_26_dd_reg_correction_mean vs run
×10^3
χ^2 / ndf 105.5 / 104
p0 −5871 ± 2749
100
50
0
−50
−100
pull
Entries 105
Mean −676.5
Std Dev 0
2
1
0
−1
−2

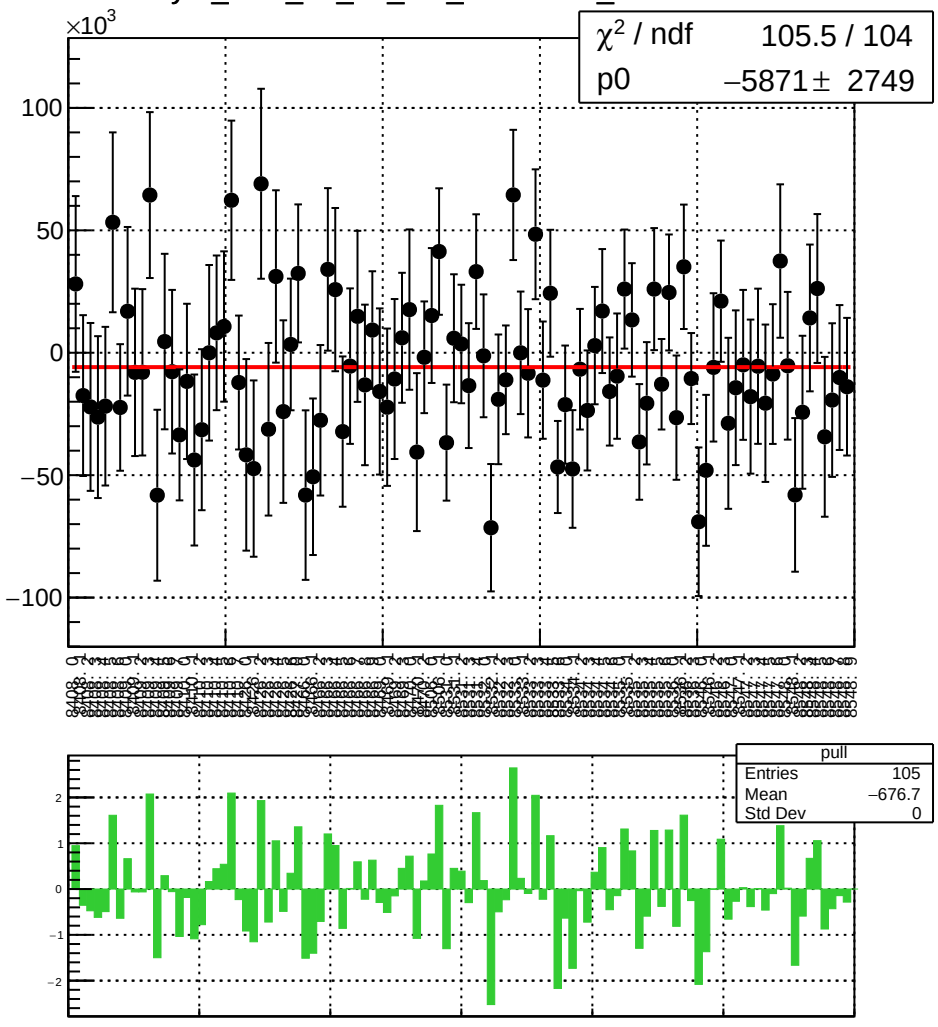

pull1D
Entries 105
Mean 0.00219
Std Dev 1.002
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

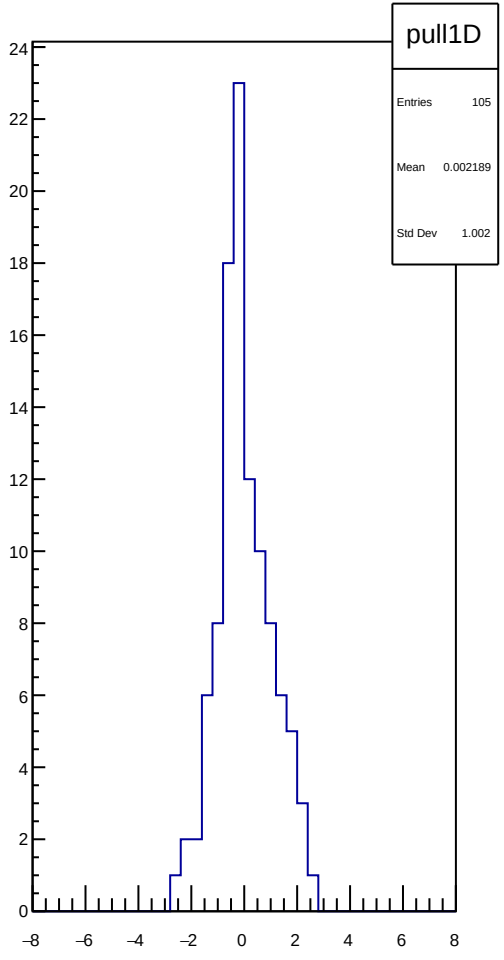

asym_sam_26_dd_reg_correction_rms vs run
χ² / ndf 4.081e+04 / 104
p0 2753 ± 1.944
3800
3600
3400
3200
3000
2800
2600
2400
2200

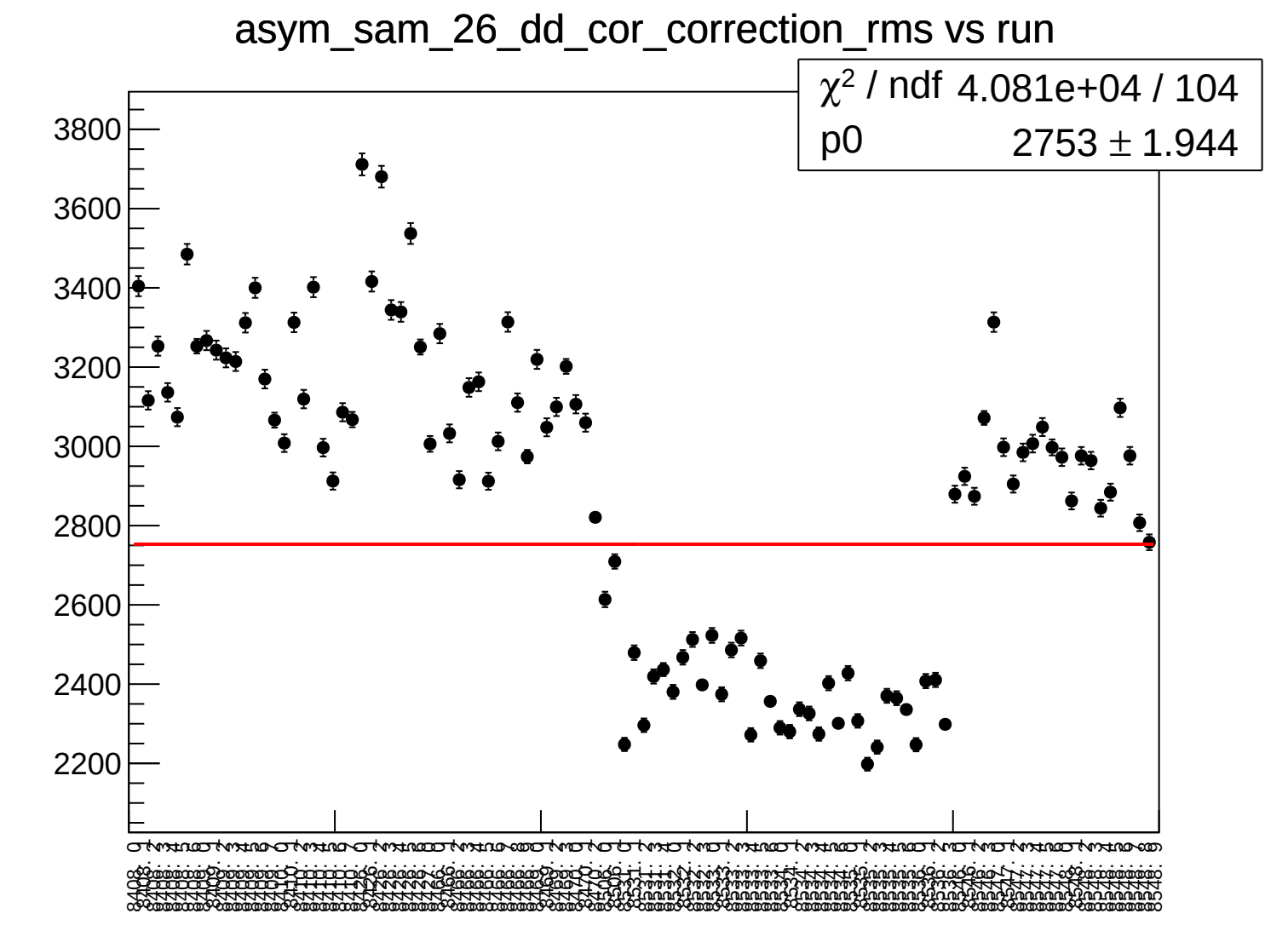

cor_asym_sam_26_dd_mean vs run
χ² / ndf 94.61 / 104
p0 −222.6 ± 166
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 105
Mean −108.5
Std Dev 0
2
1
0
−1
−2
−3

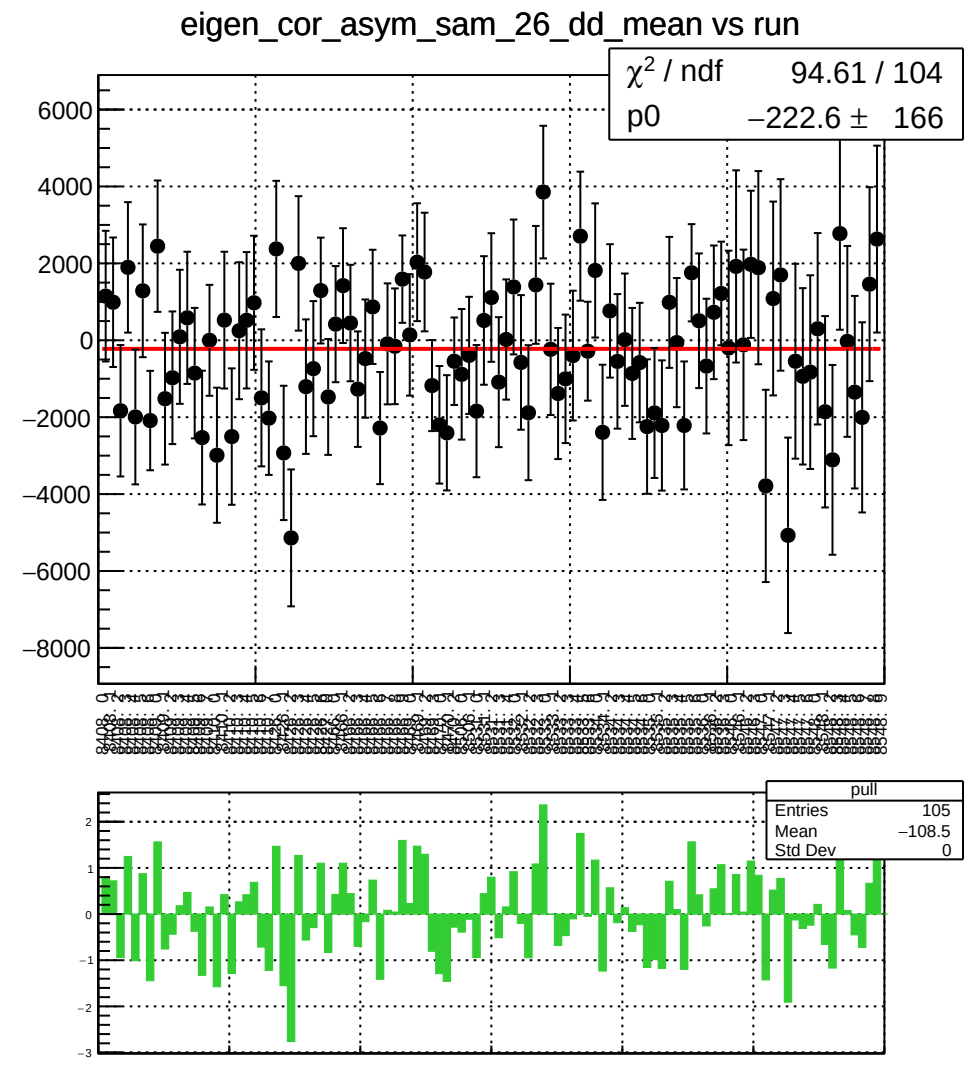

pull1D
Entries 105
Mean −0.01004
Std Dev 0.9492
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

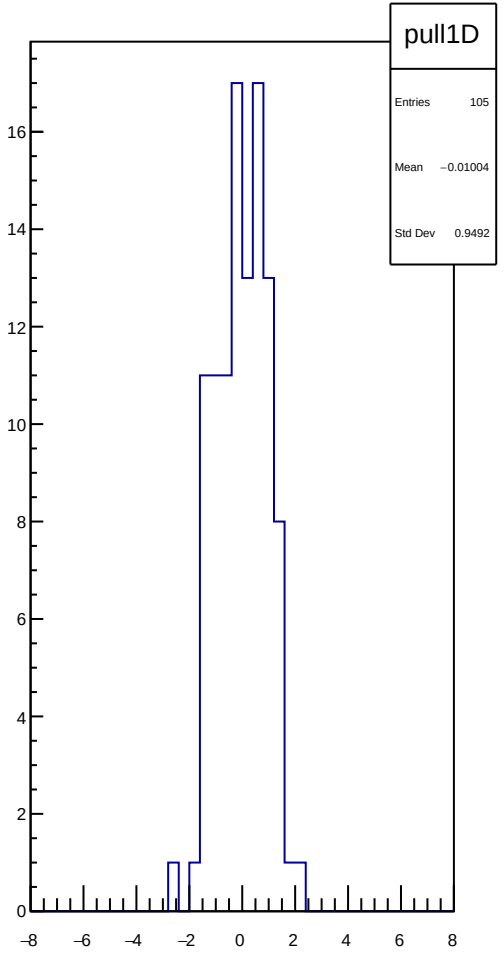

cor_asym_sam_26_dd_rms vs run
χ^2 / ndf 4.553e+04 / 104
p0 166 ± 0.1174
240
220
200
180
160
140

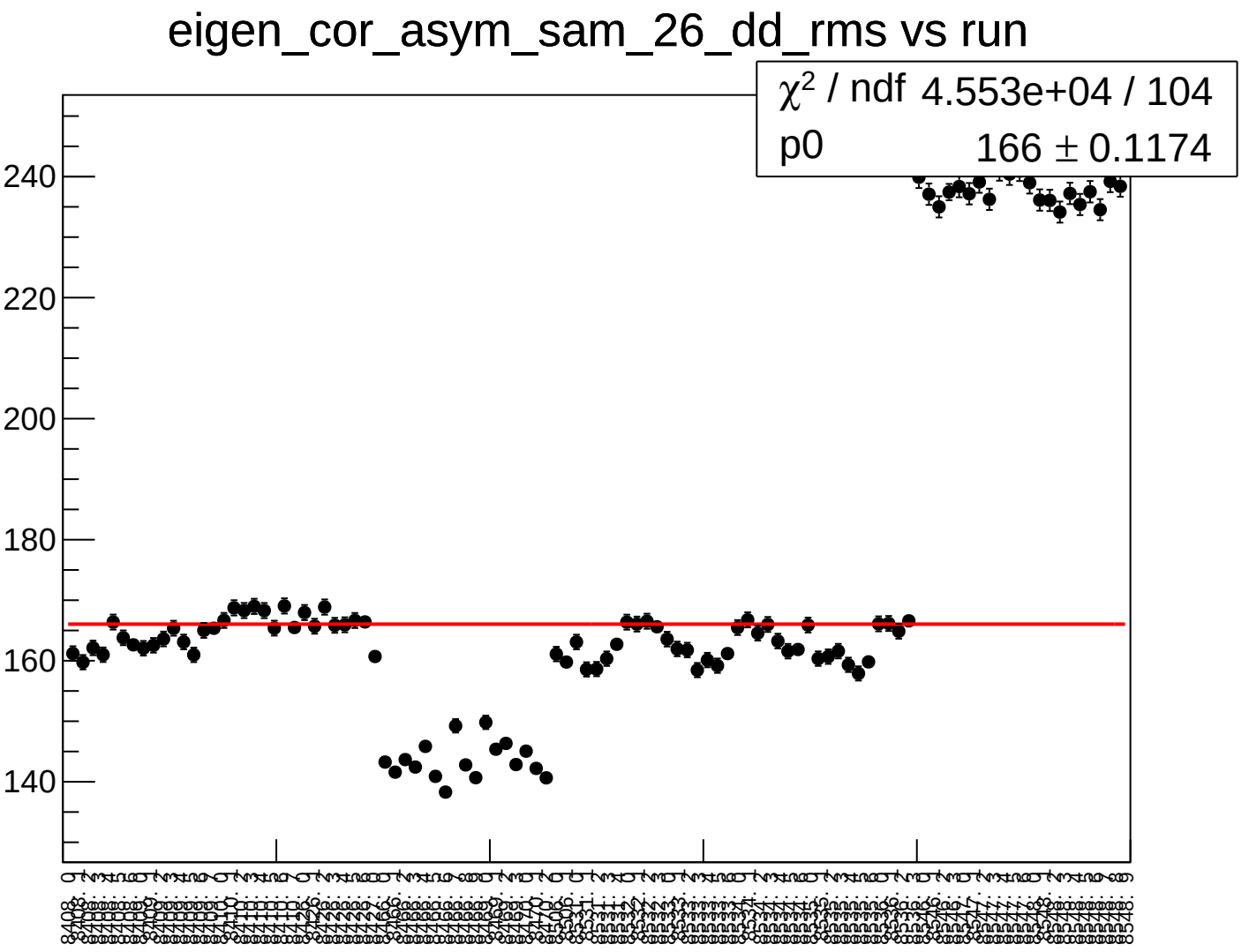

asym_sam_26_dd_cor_correction_mean vs run
×10^3
χ² / ndf 105.5 / 104
p0 −5871 ± 2749
100
50
0
−50
−100
pull
Entries 105
Mean −676.7
Std Dev 0
2
1
0
−1
−2

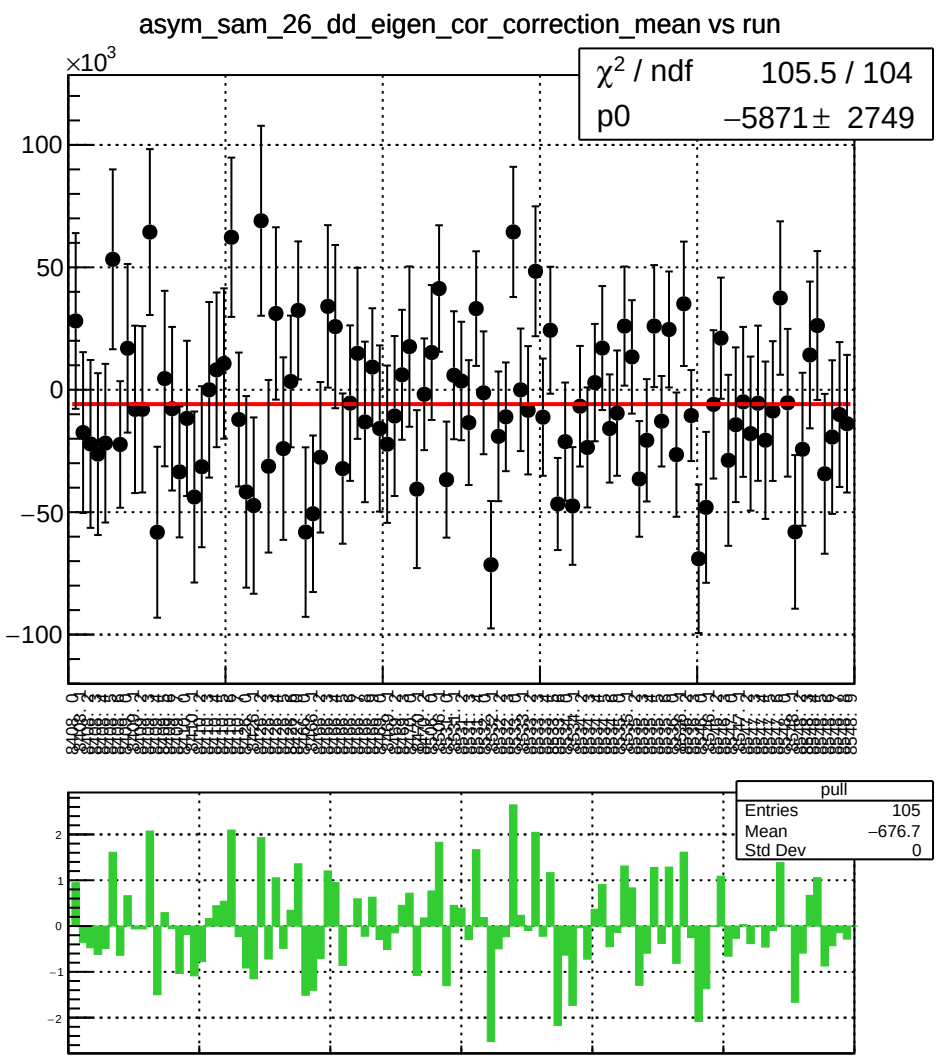

pull1D
Entries 105
Mean 0.002189
Std Dev 1.002
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

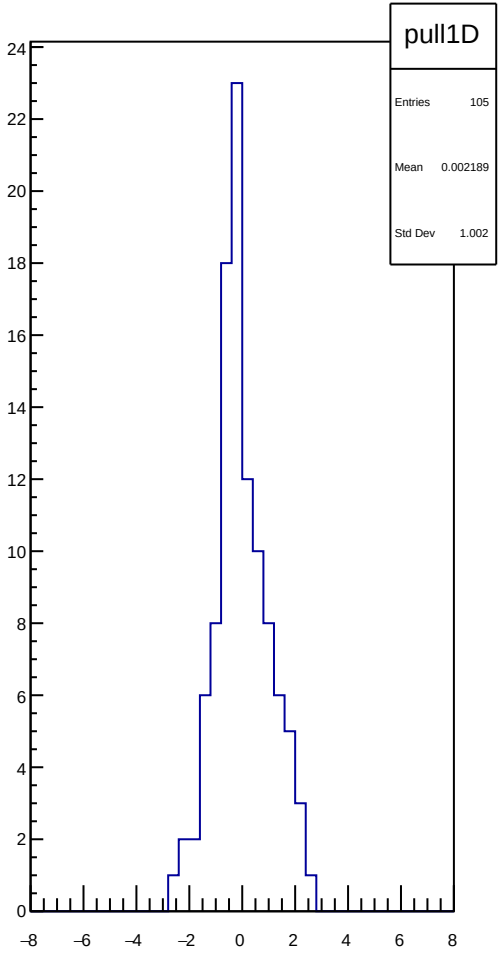

asym_sam_26_dd_cor_correction_rms vs run
χ² / ndf 4.081e+04 / 104
p0 2753 ± 1.944
3800
3600
3400
3200
3000
2800
2600
2400
2200

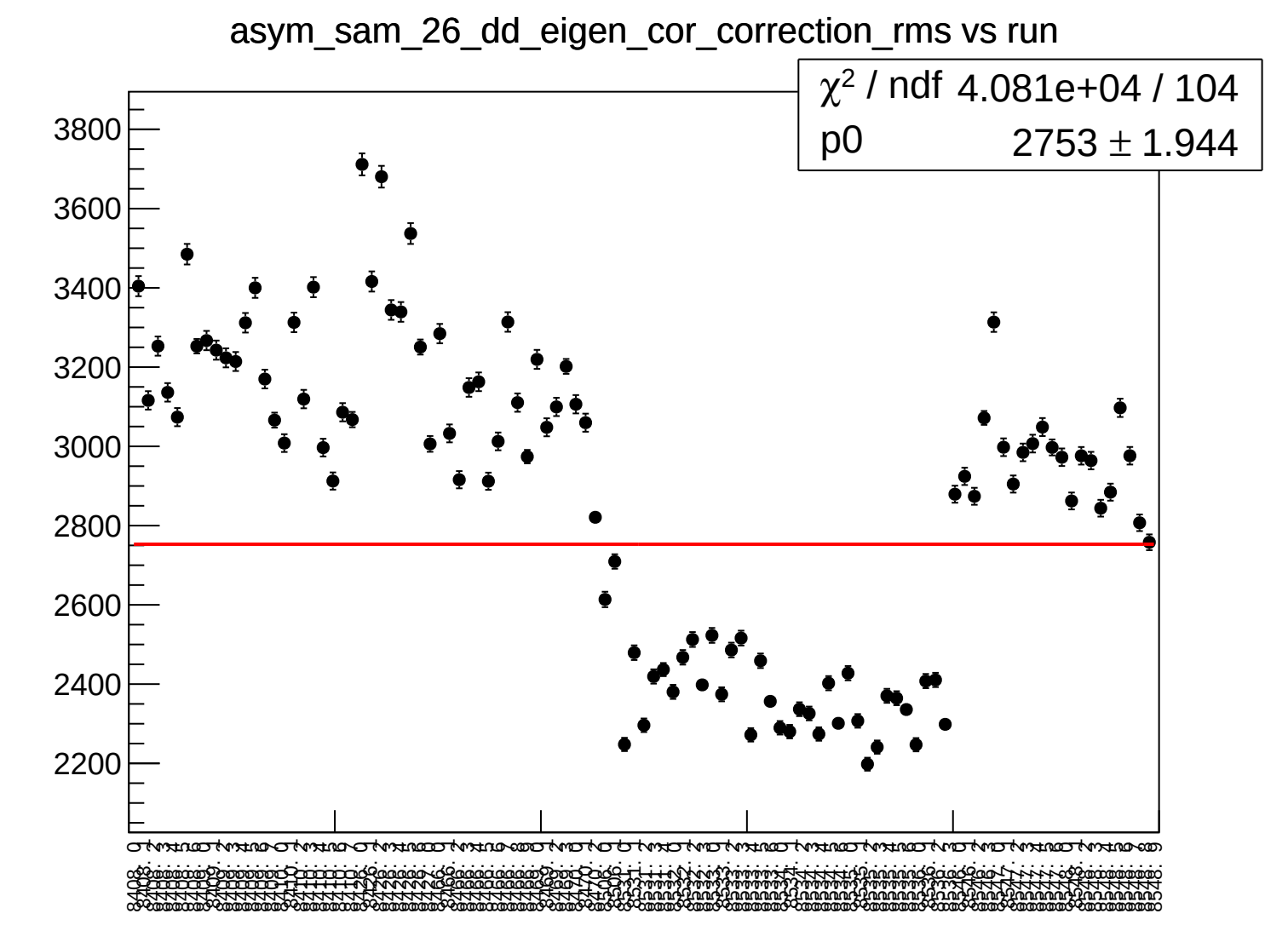

eigen_cor_asym_sam_26_dd_mean vs run
χ² / ndf 94.61 / 104
p0 −222.6 ± 166
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 105
Mean −108.5
Std Dev 0
2
1
0
−1
−2
−3

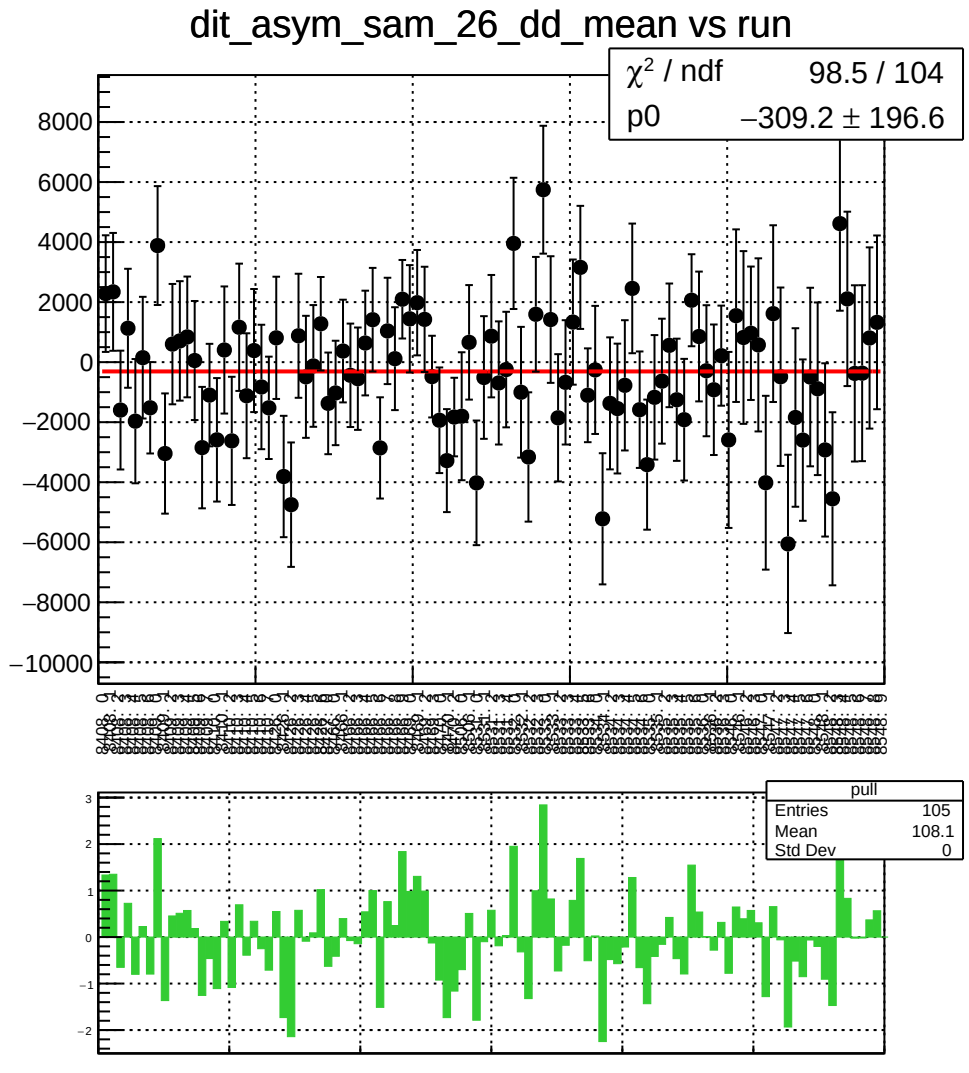

pull1D
Entries 105
Mean −0.01004
Std Dev 0.9492
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

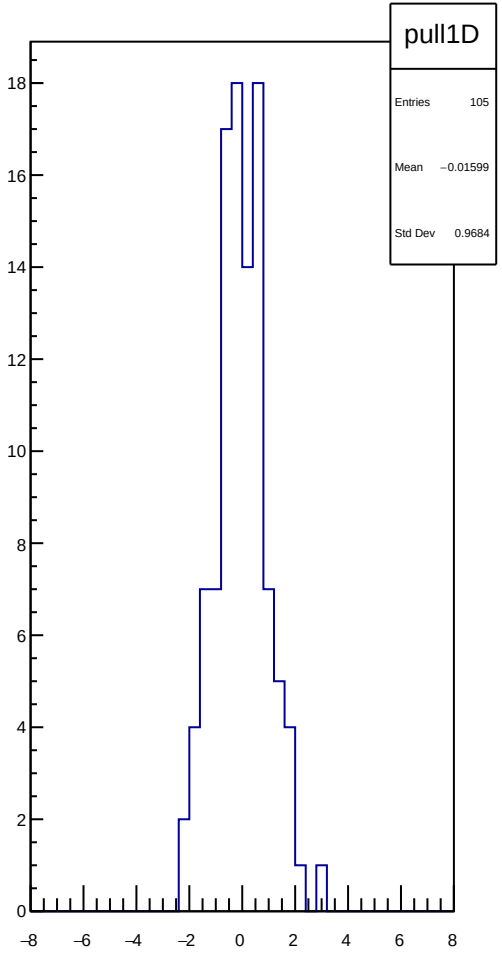

eigen_cor_asym_sam_26_dd_rms vs run
χ² / ndf 4.553e+04 / 104
p0 166 ± 0.1174
240
220
200
180
160
140

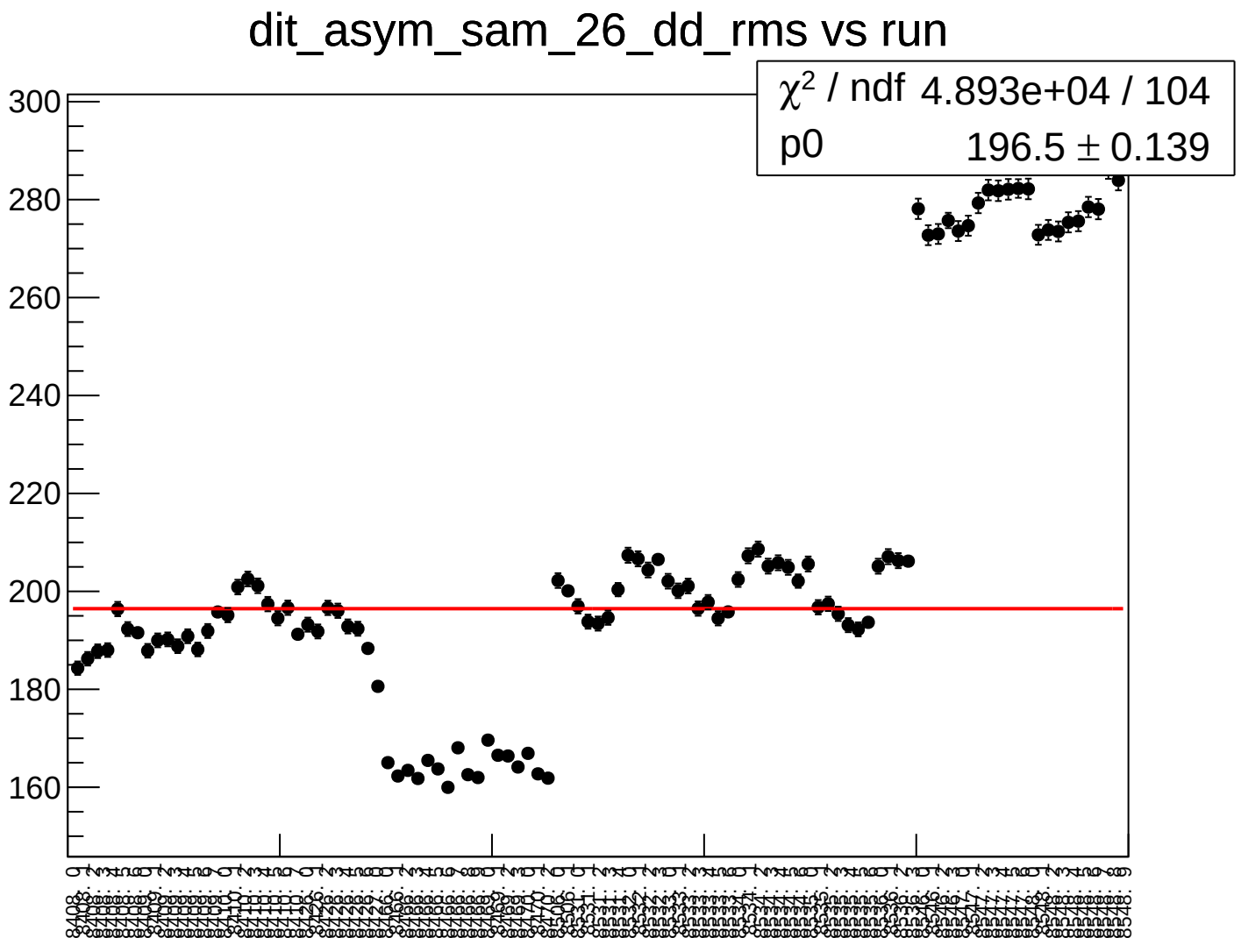

asym_sam_26_dd_eigen_cor_correction_mean vs run
×10^3
χ^2 / ndf 105.5 / 104
p0 −5871 ± 2749
100
50
0
−50
−100
pull
Entries 105
Mean −676.7
Std Dev 0
2
1
0
−1
−2

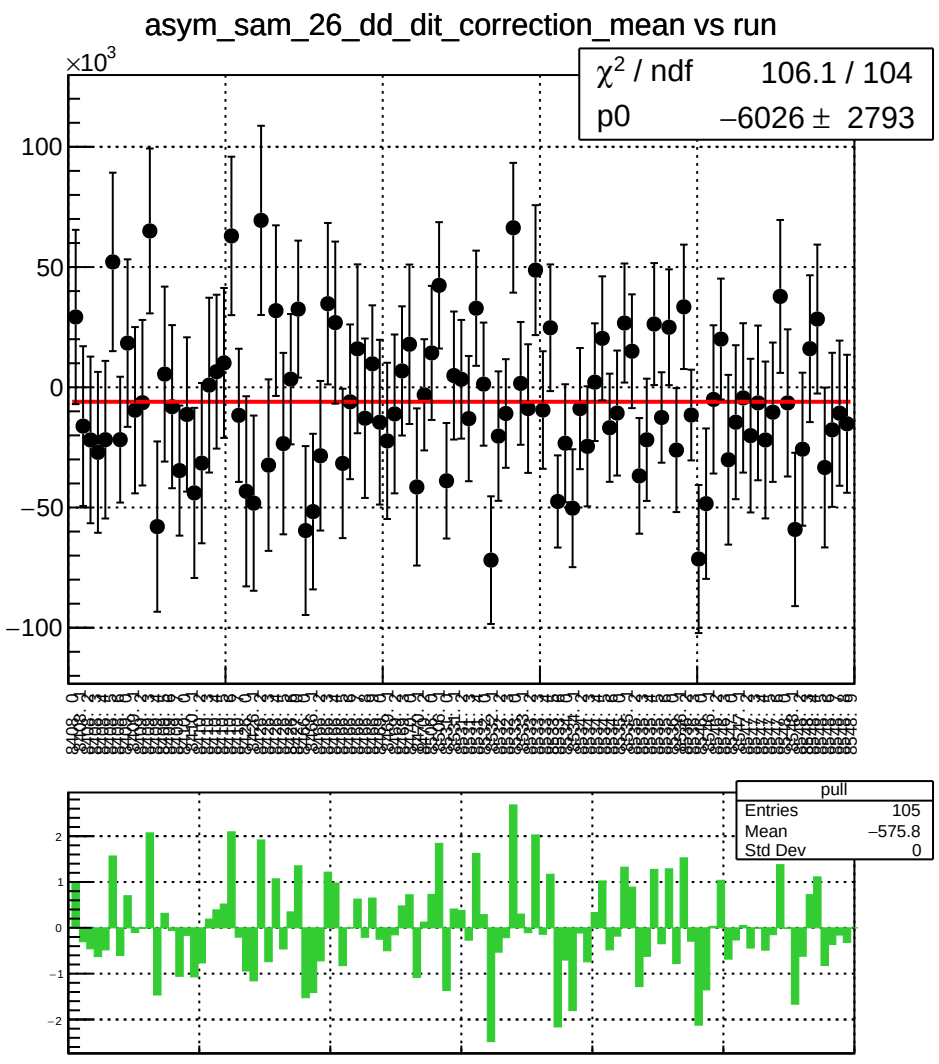

pull1D
Entries 105
Mean 0.002189
Std Dev 1.002
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

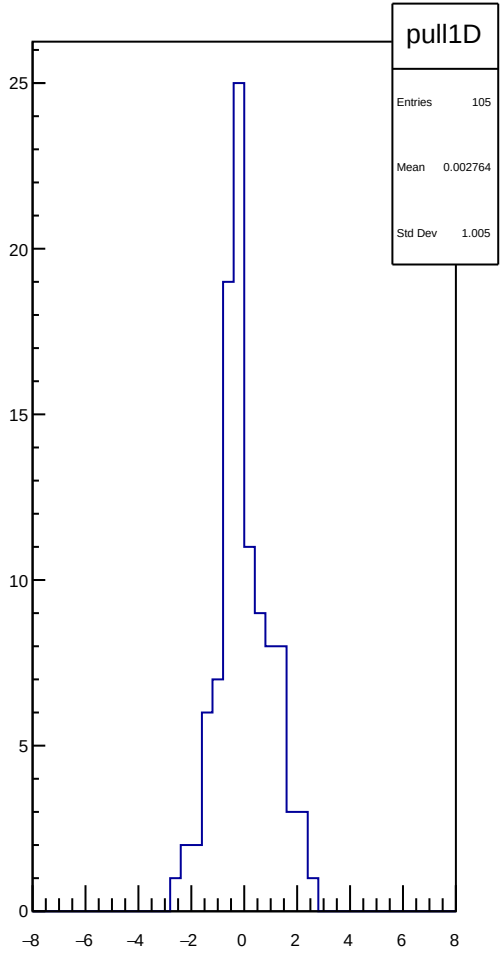

asym_sam_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 4.081e+04 / 104
p0 2753 ± 1.944
3800
3600
3400
3200
3000
2800
2600
2400
2200

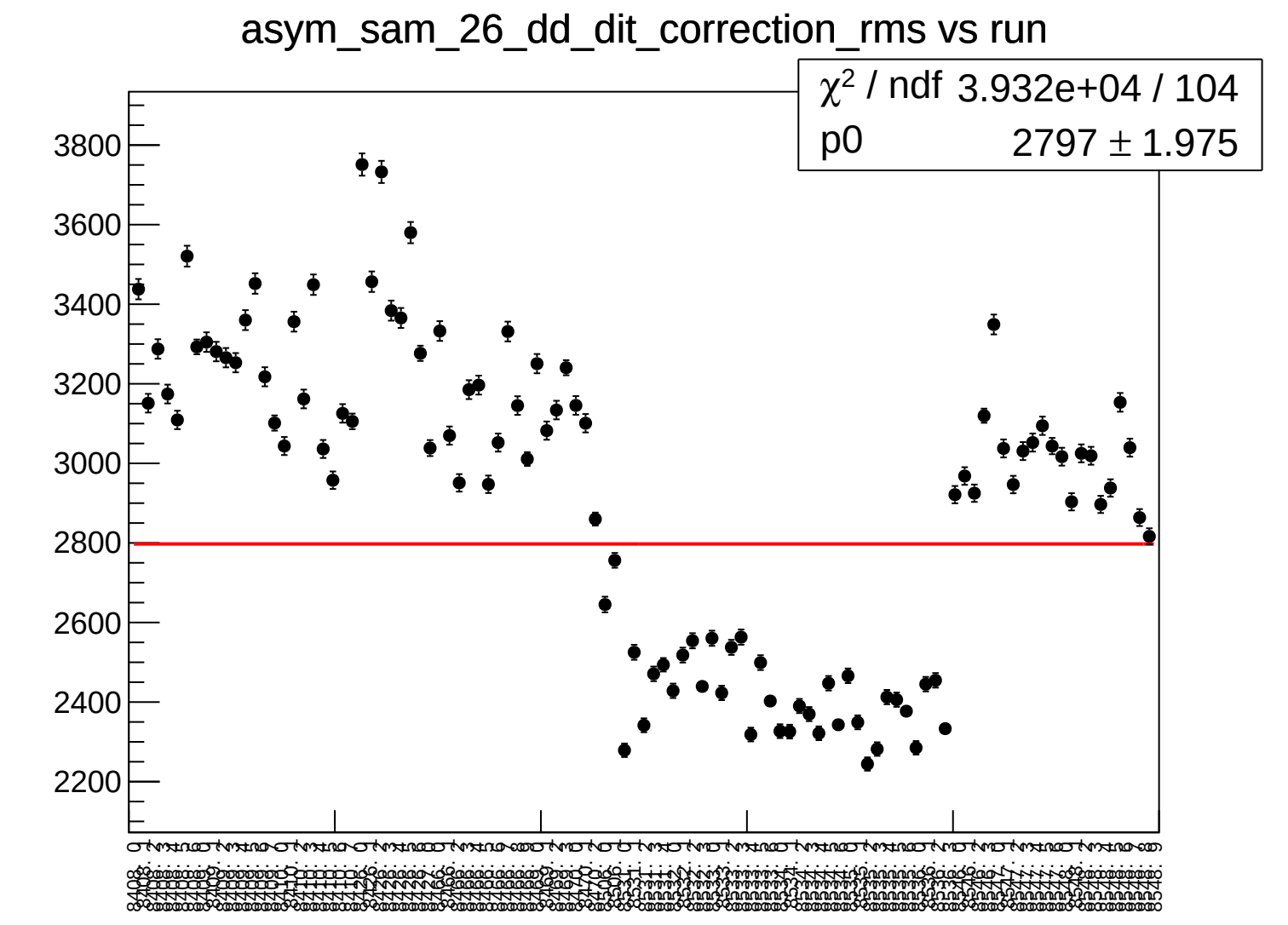

dit_asym_sam_26_dd_mean vs run
χ^2 / ndf 98.5 / 104
p0 −309.2 ± 196.6
pull
Entries 105
Mean 108.1
Std Dev 0

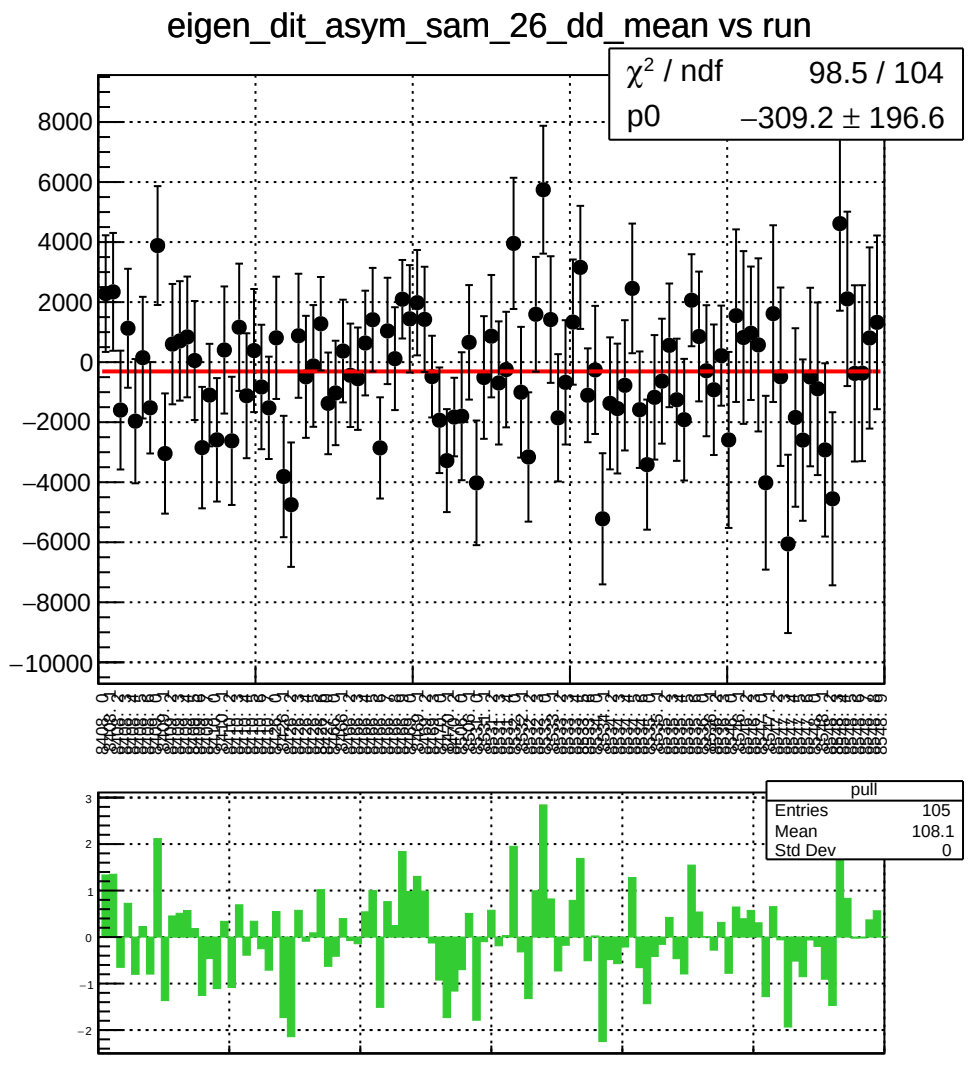

pull1D
Entries 105
Mean −0.01599
Std Dev 0.9684

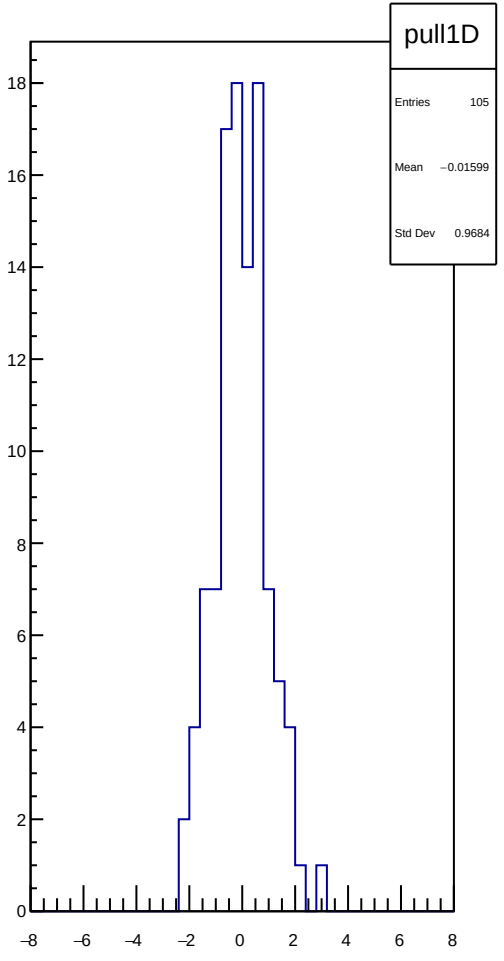

dit_asym_sam_26_dd_rms vs run
χ² / ndf 4.893e+04 / 104
p0 196.5 ± 0.139
300
280
260
240
220
200
180
160

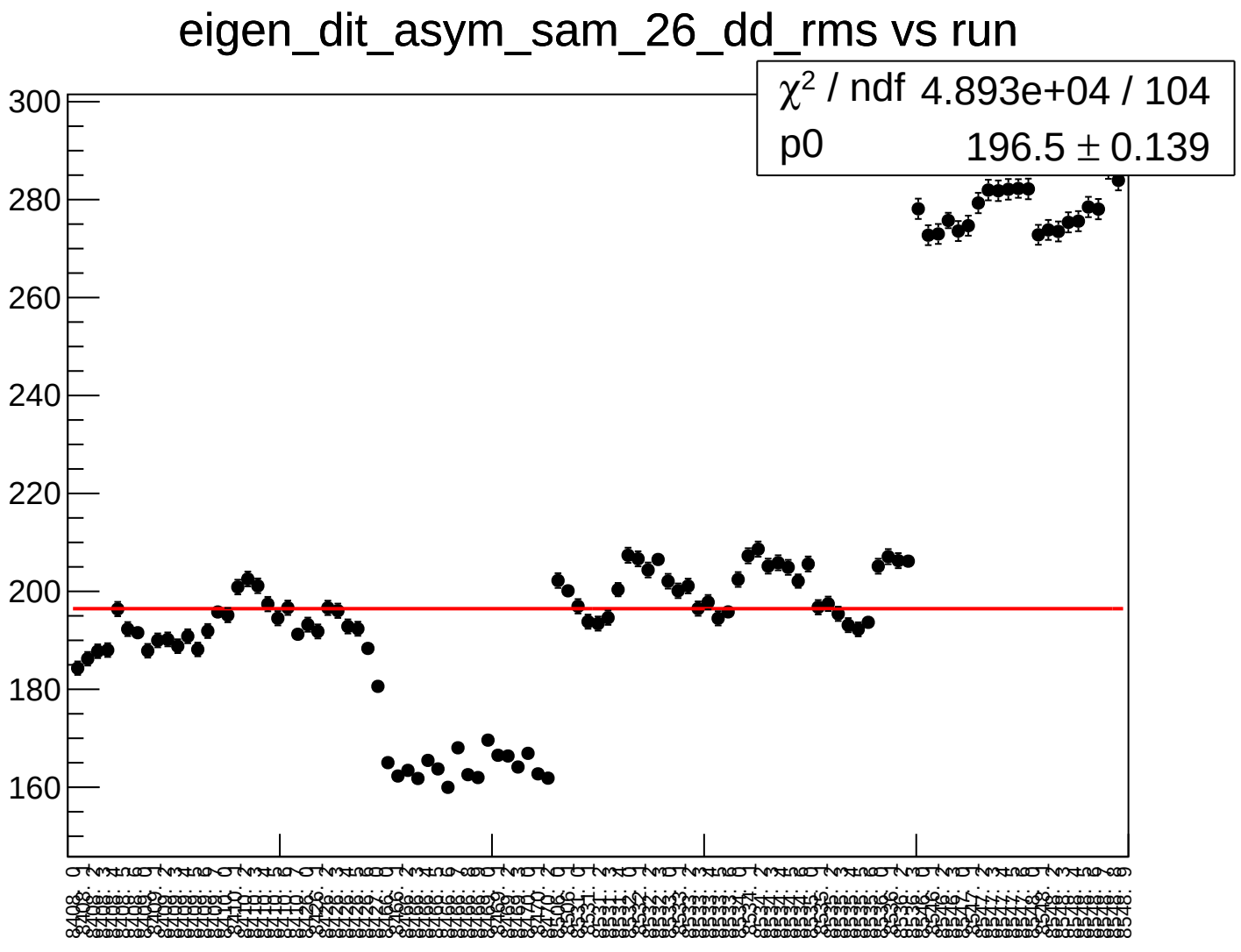

asym_sam_26_dd_dit_correction_mean vs run
×10^3
χ^2 / ndf 106.1 / 104
p0 −6026 ± 2793
100
50
0
−50
−100
pull
Entries 105
Mean −575.8
Std Dev 0
2
1
0
−1
−2

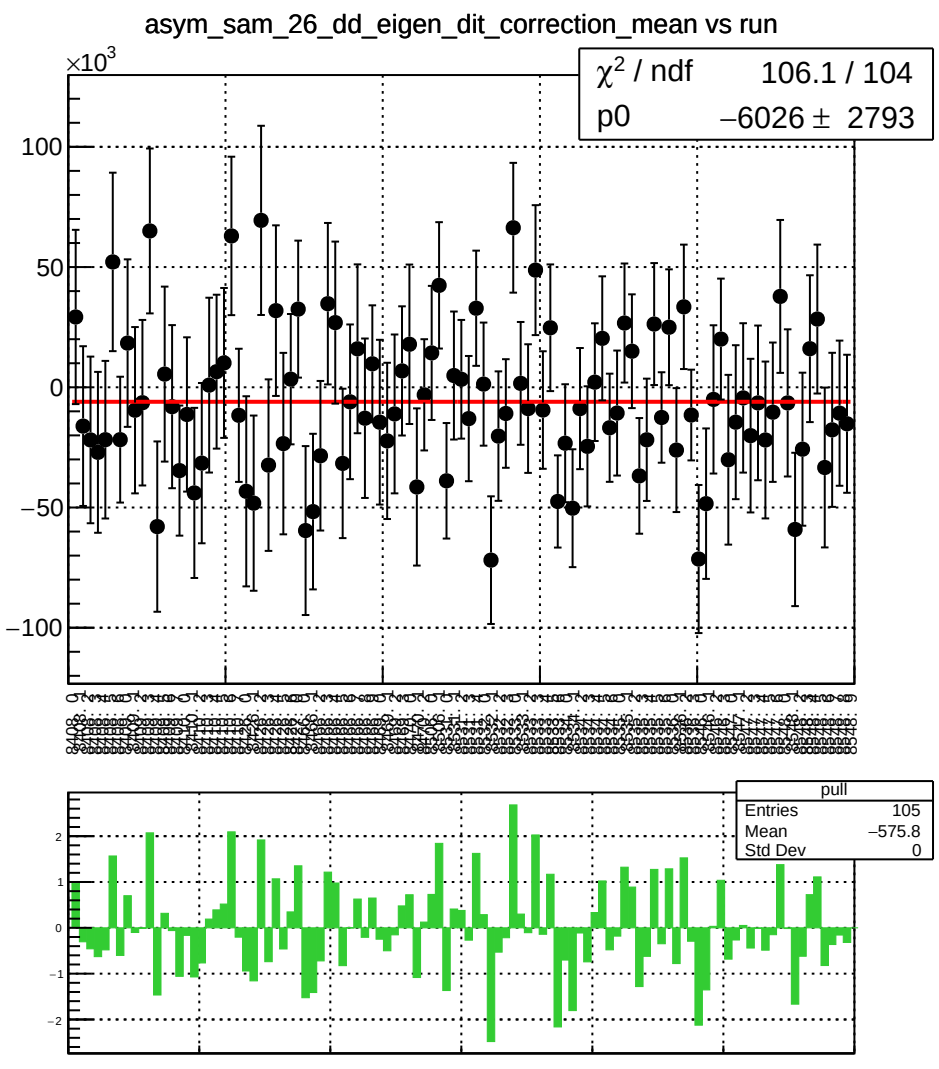

pull1D
Entries 105
Mean 0.002764
Std Dev 1.005
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

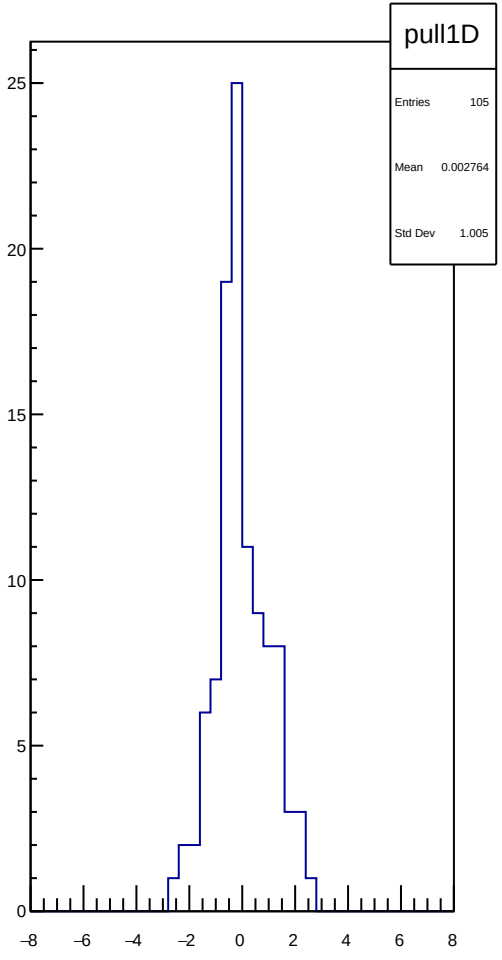

asym_sam_26_dd_dit_correction_rms vs run
χ² / ndf 3.932e+04 / 104
p0 2797 ± 1.975
3800
3600
3400
3200
3000
2800
2600
2400
2200

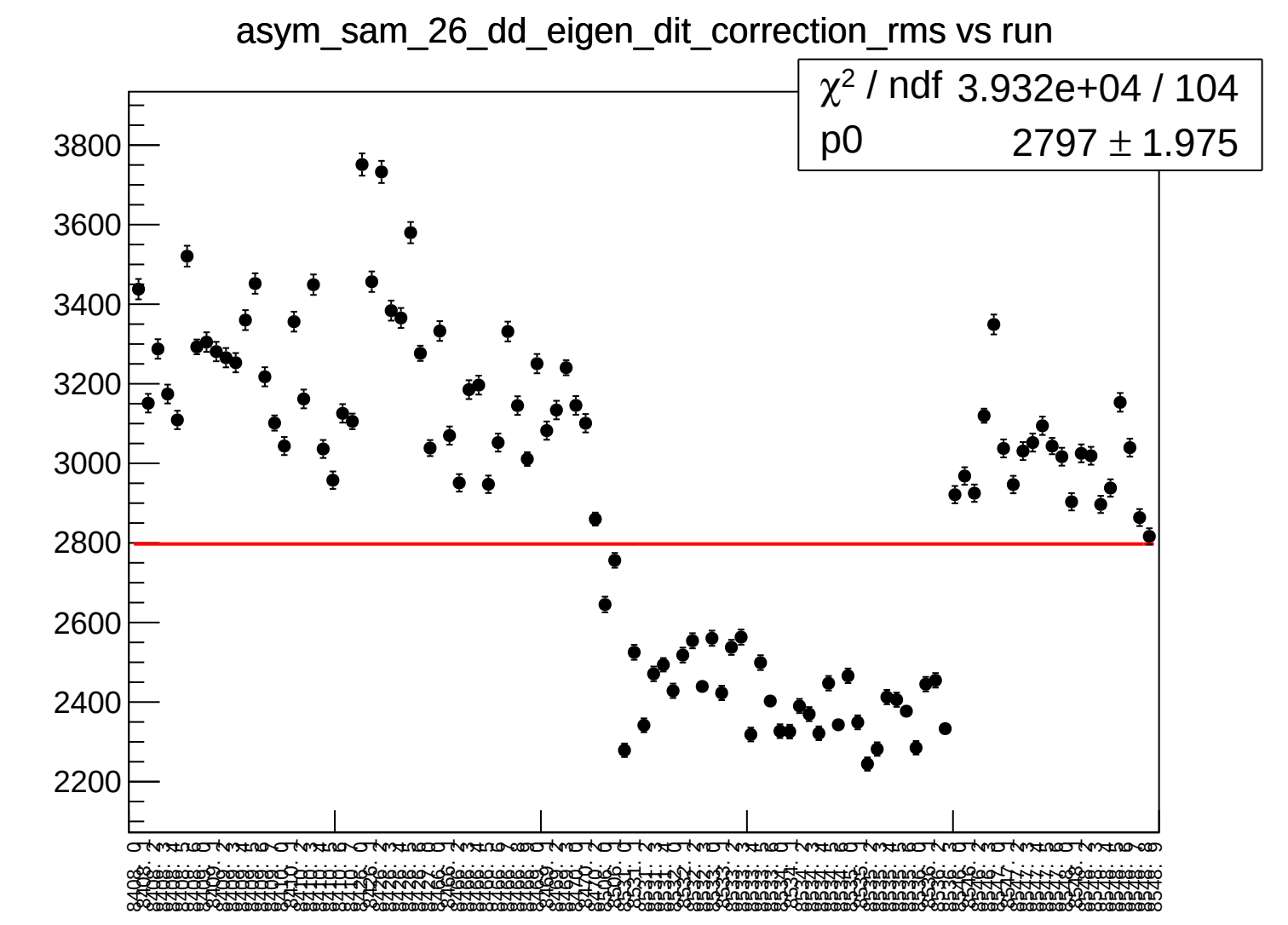

eigen_dit_asym_sam_26_dd_mean vs run
χ² / ndf 98.5 / 104
p0 −309.2 ± 196.6
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
pull
Entries 105
Mean 108.1
Std Dev 0
3
2
1
0
−1
−2

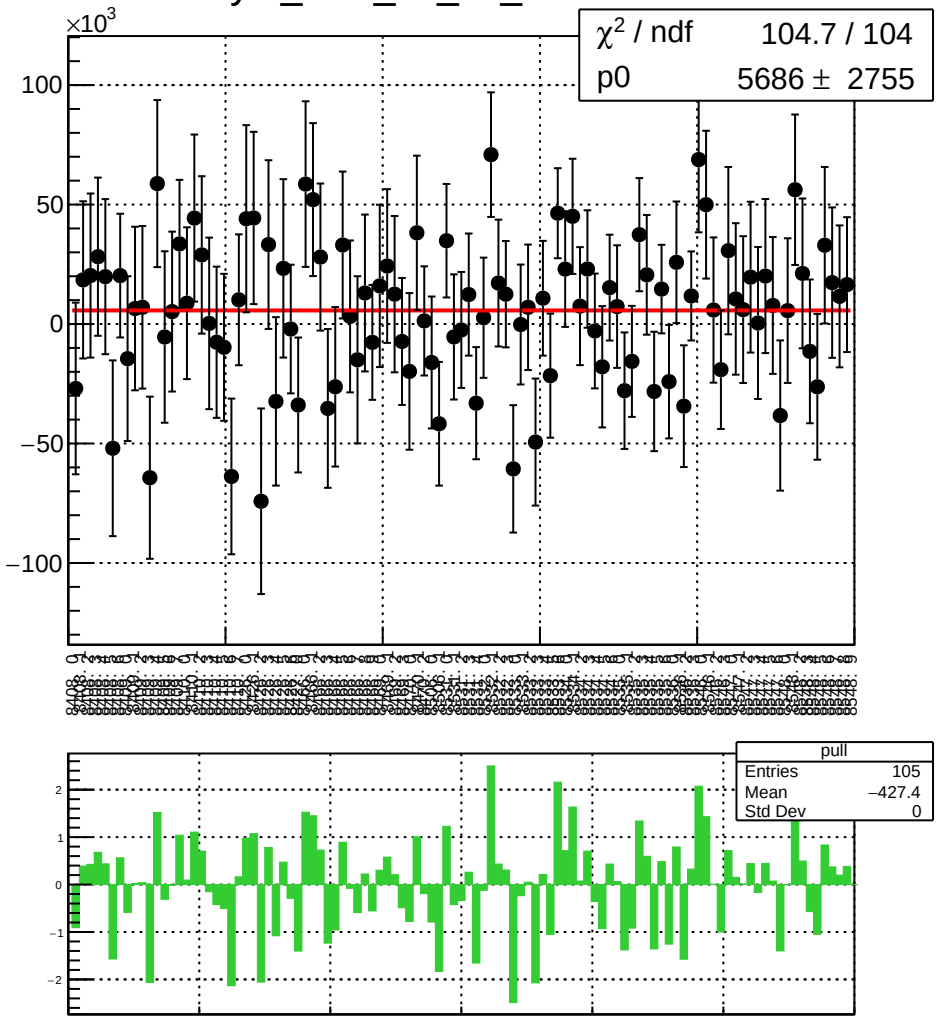

pull1D
Entries 105
Mean −0.01599
Std Dev 0.9684
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

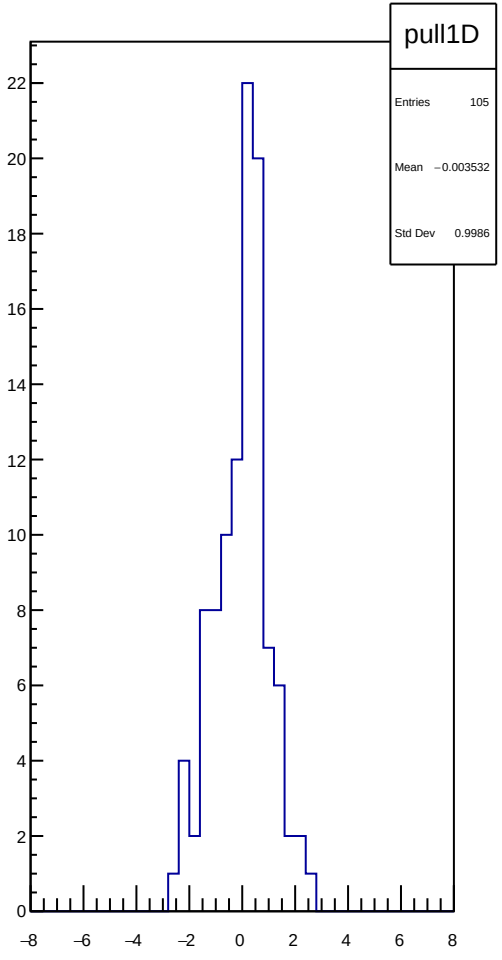

eigen_dit_asym_sam_26_dd_rms vs run
χ² / ndf 4.893e+04 / 104
p0 196.5 ± 0.139
300
280
260
240
220
200
180
160

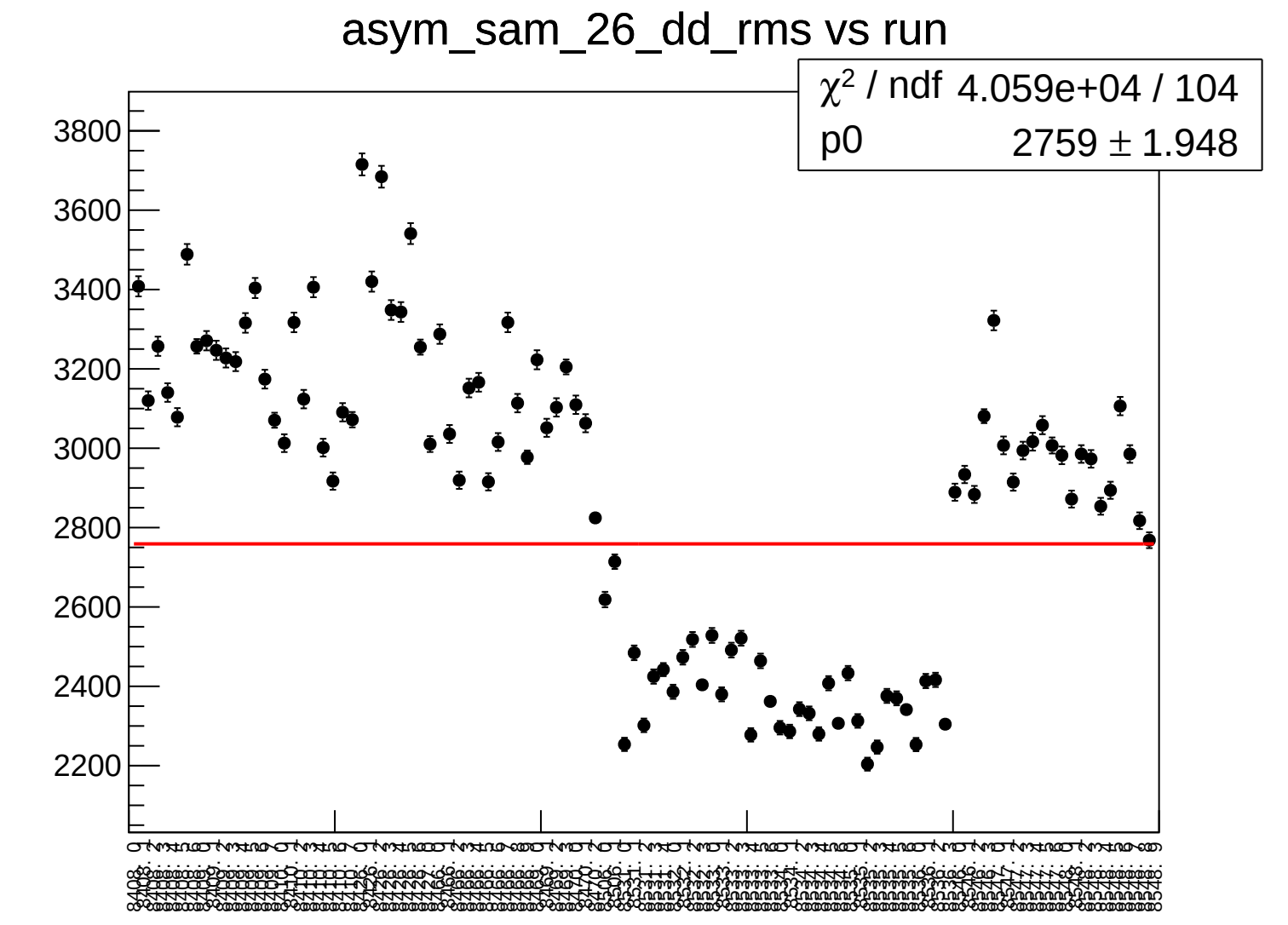

asym_sam_26_dd_eigen_dit_correction_mean vs run
×10^3
χ^2 / ndf 106.1 / 104
p0 −6026 ± 2793
100
50
0
−50
−100
pull
Entries 105
Mean −575.8
Std Dev 0
2
1
0
−1
−2

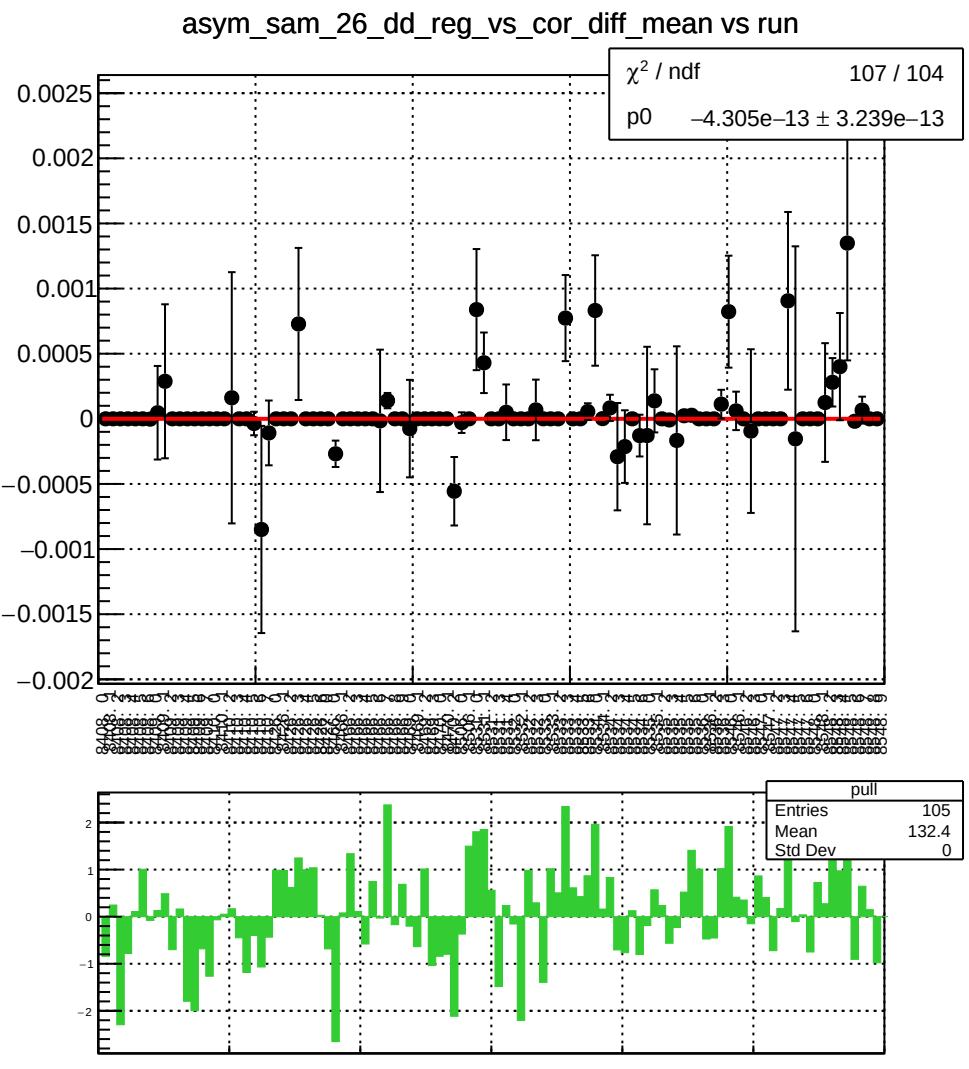

pull1D
Entries 105
Mean 0.002764
Std Dev 1.005
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

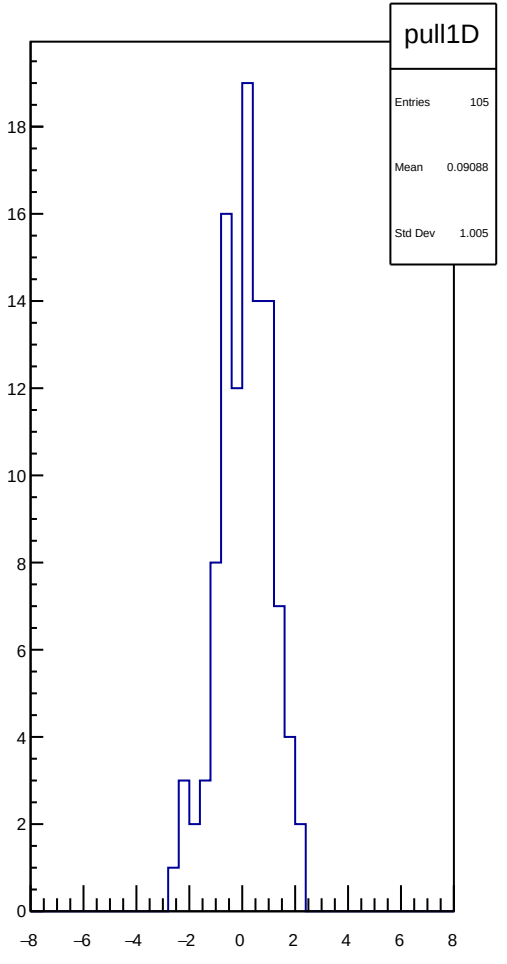

asym_sam_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 3.932e+04 / 104
p0 2797 ± 1.975
3800
3600
3400
3200
3000
2800
2600
2400
2200

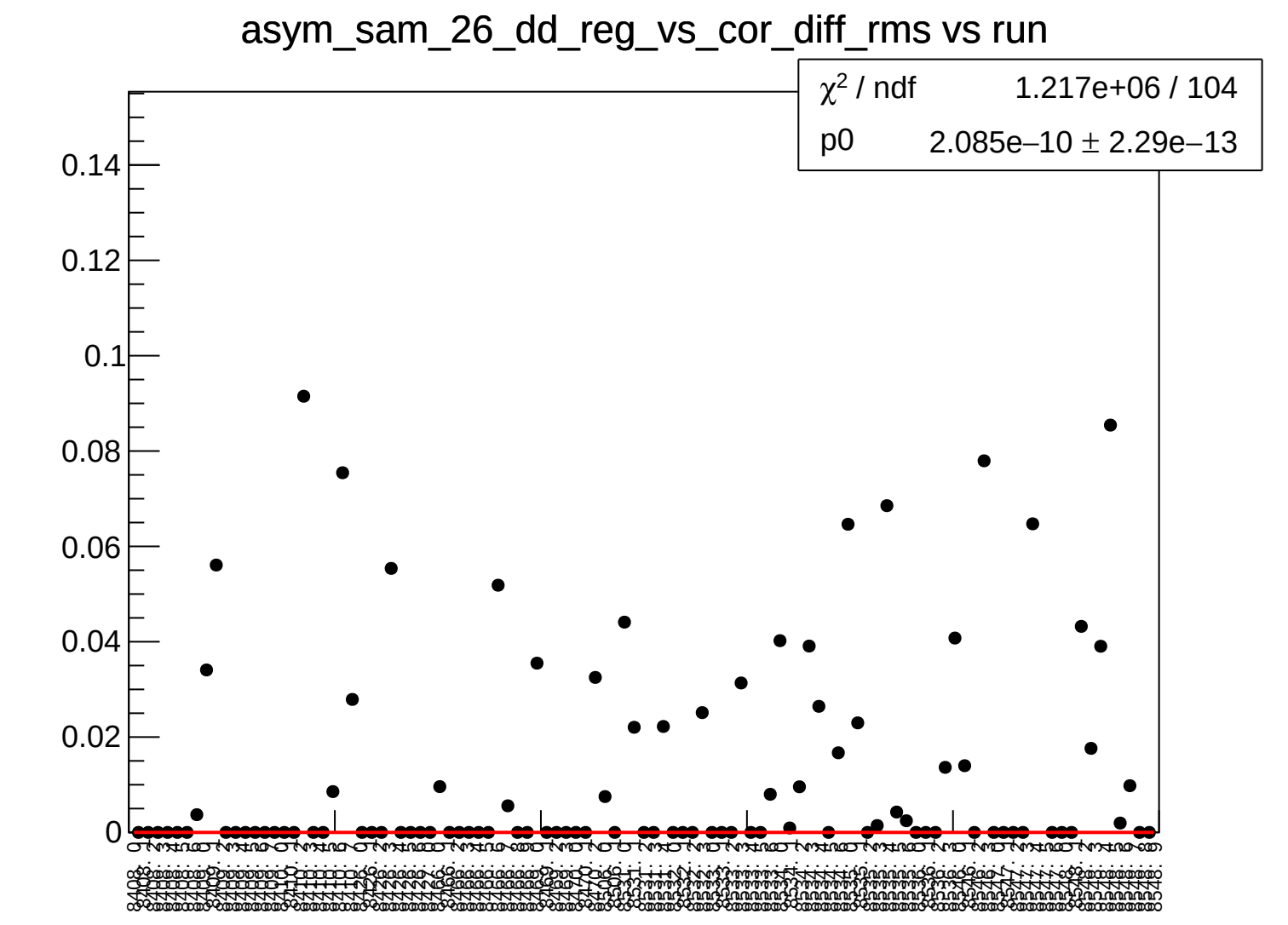

asym_sam_26_dd_mean vs run
×10^3
χ^2 / ndf 104.7 / 104
p0 5686 ± 2755
100
50
0
−50
−100
pull
Entries 105
Mean −427.4
Std Dev 0
2
1
0
−1
−2

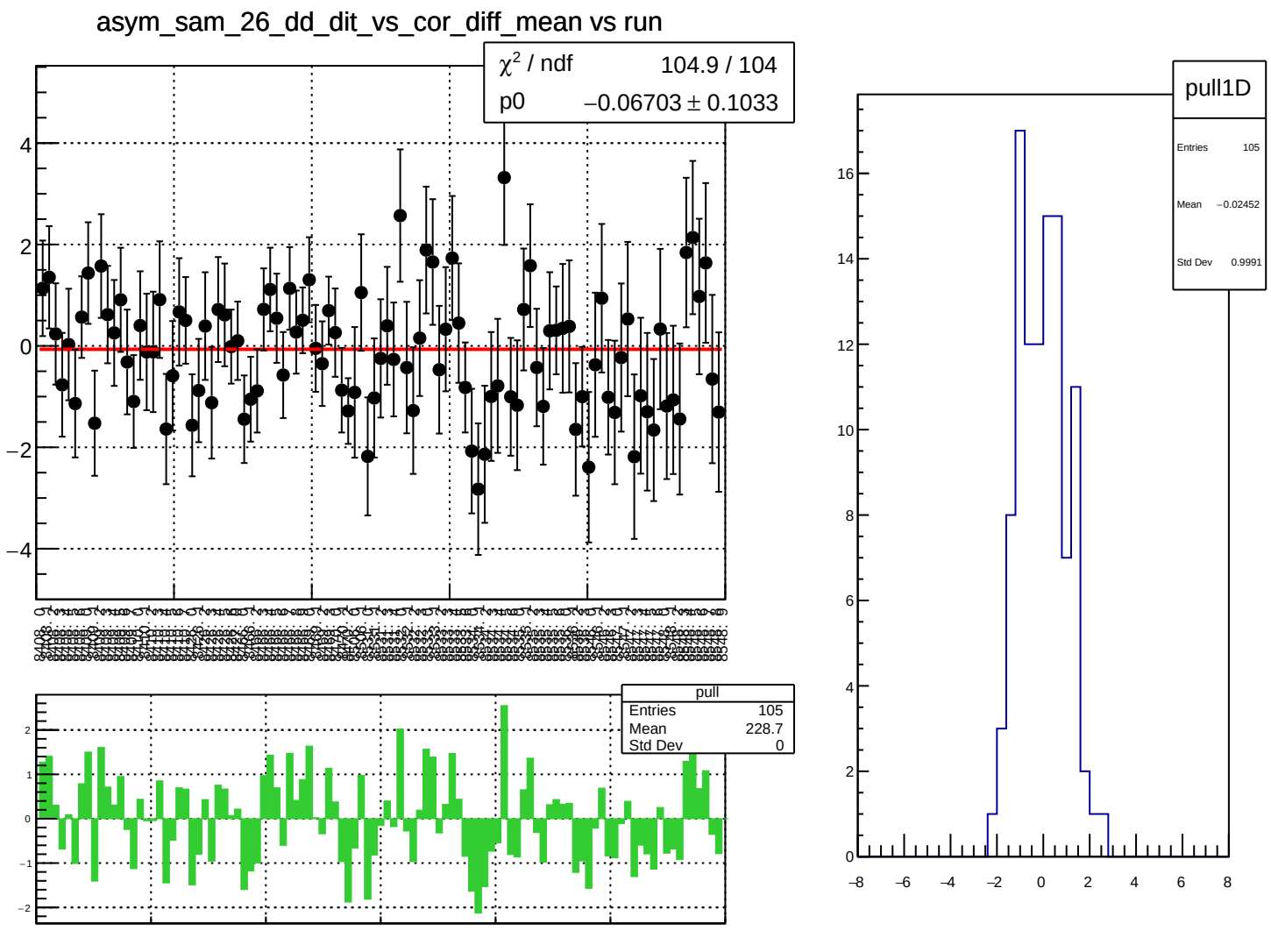

pull1D
Entries 105
Mean −0.003532
Std Dev 0.9986
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

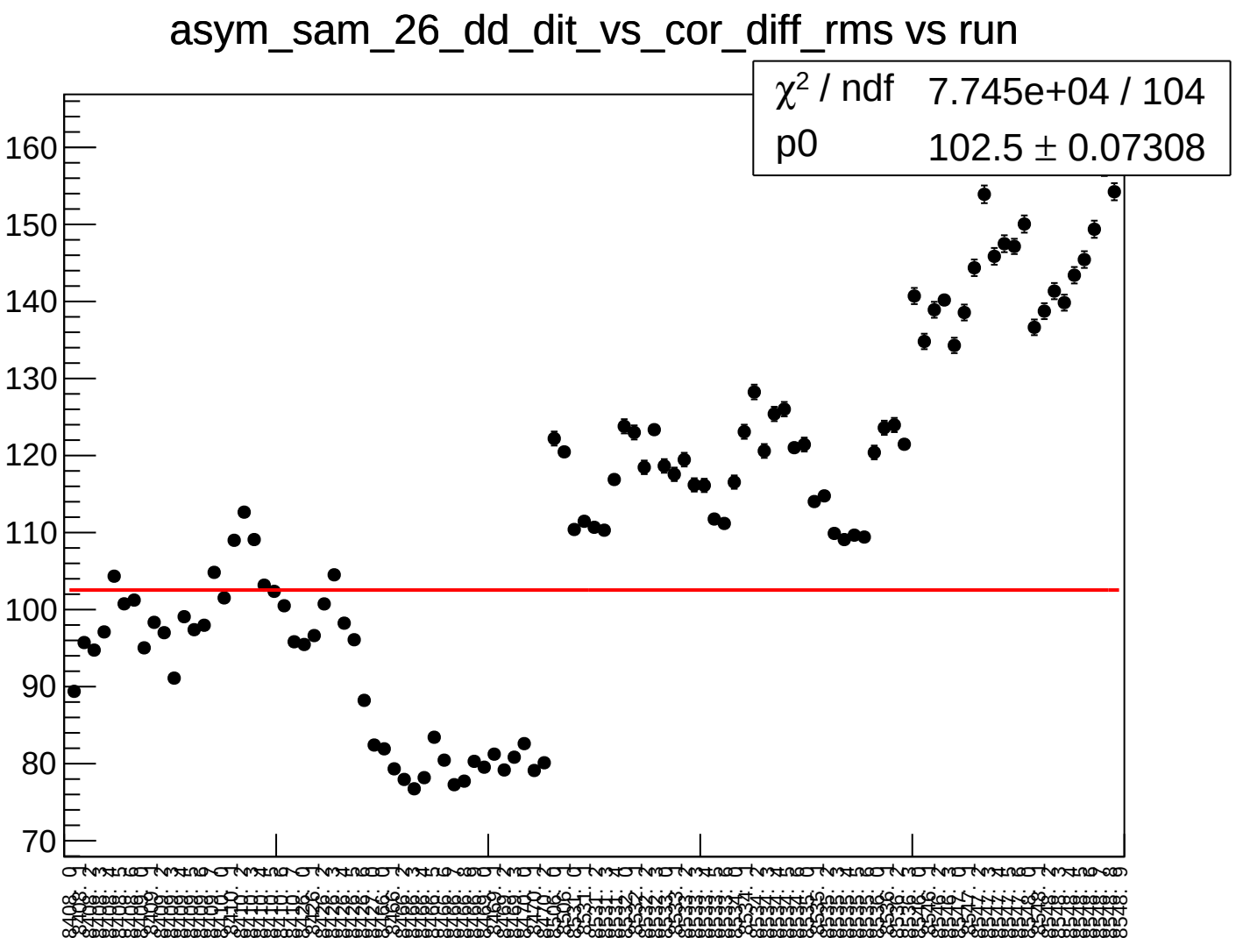

asym_sam_26_dd_rms vs run
χ² / ndf 4.059e+04 / 104
p0 2759 ± 1.948
3800
3600
3400
3200
3000
2800
2600
2400
2200

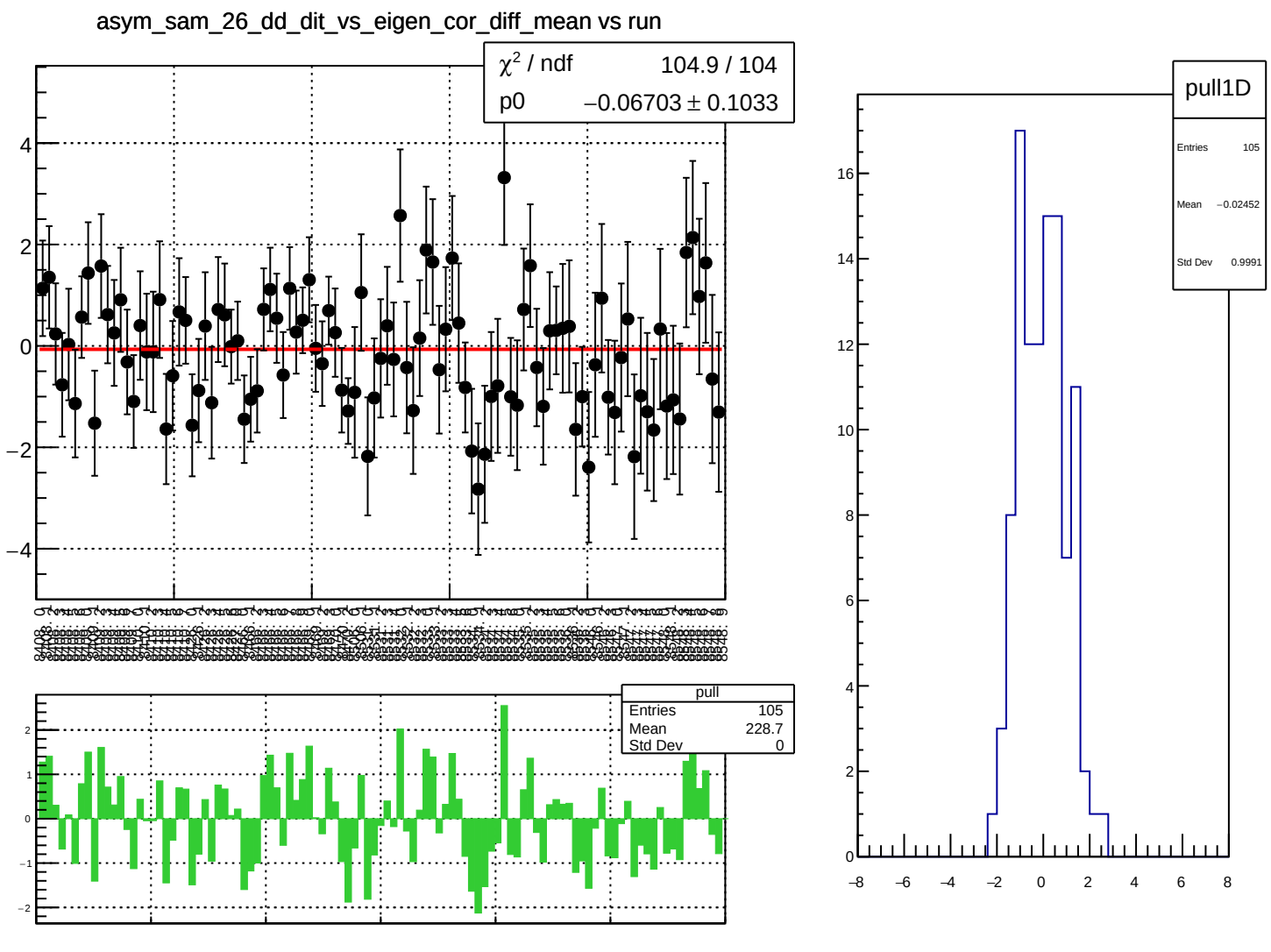

asym_sam_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 107 / 104
p0 −4.305e−13 ± 3.239e−13
0.0025
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 105
Mean 132.4
Std Dev 0
2
1
0
−1
−2

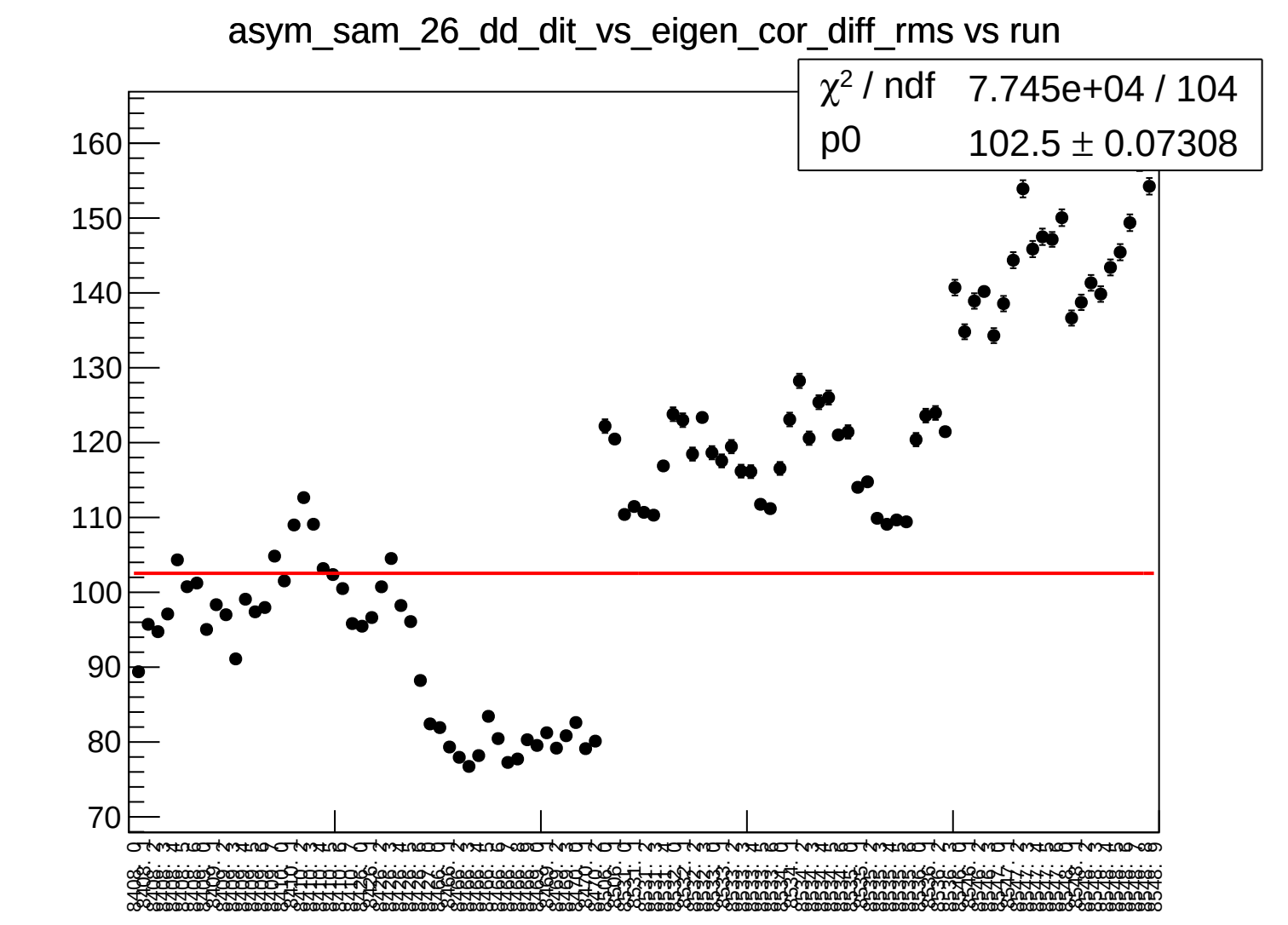

pull1D
Entries 105
Mean 0.09088
Std Dev 1.005
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

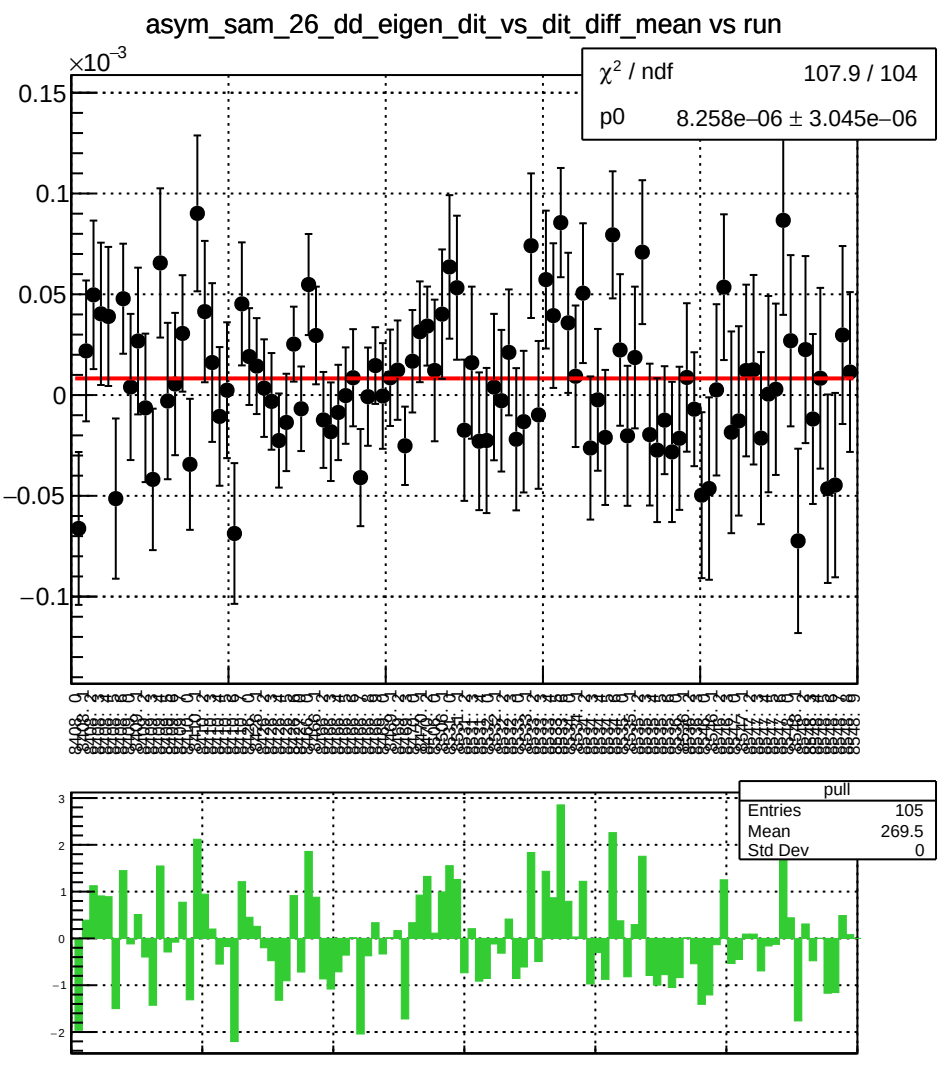

asym_sam_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.217e+06 / 104
p0 2.085e−10 ± 2.29e−13
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0

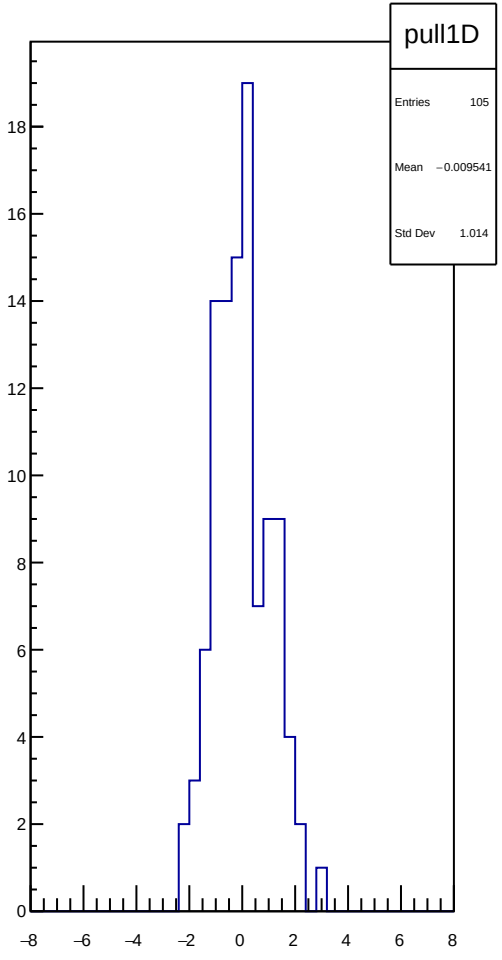

asym_sam_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 104.9 / 104
p0 −0.06703 ± 0.1033
pull
Entries 105
Mean 228.7
Std Dev 0
pull1D
Entries 105
Mean −0.02452
Std Dev 0.9991

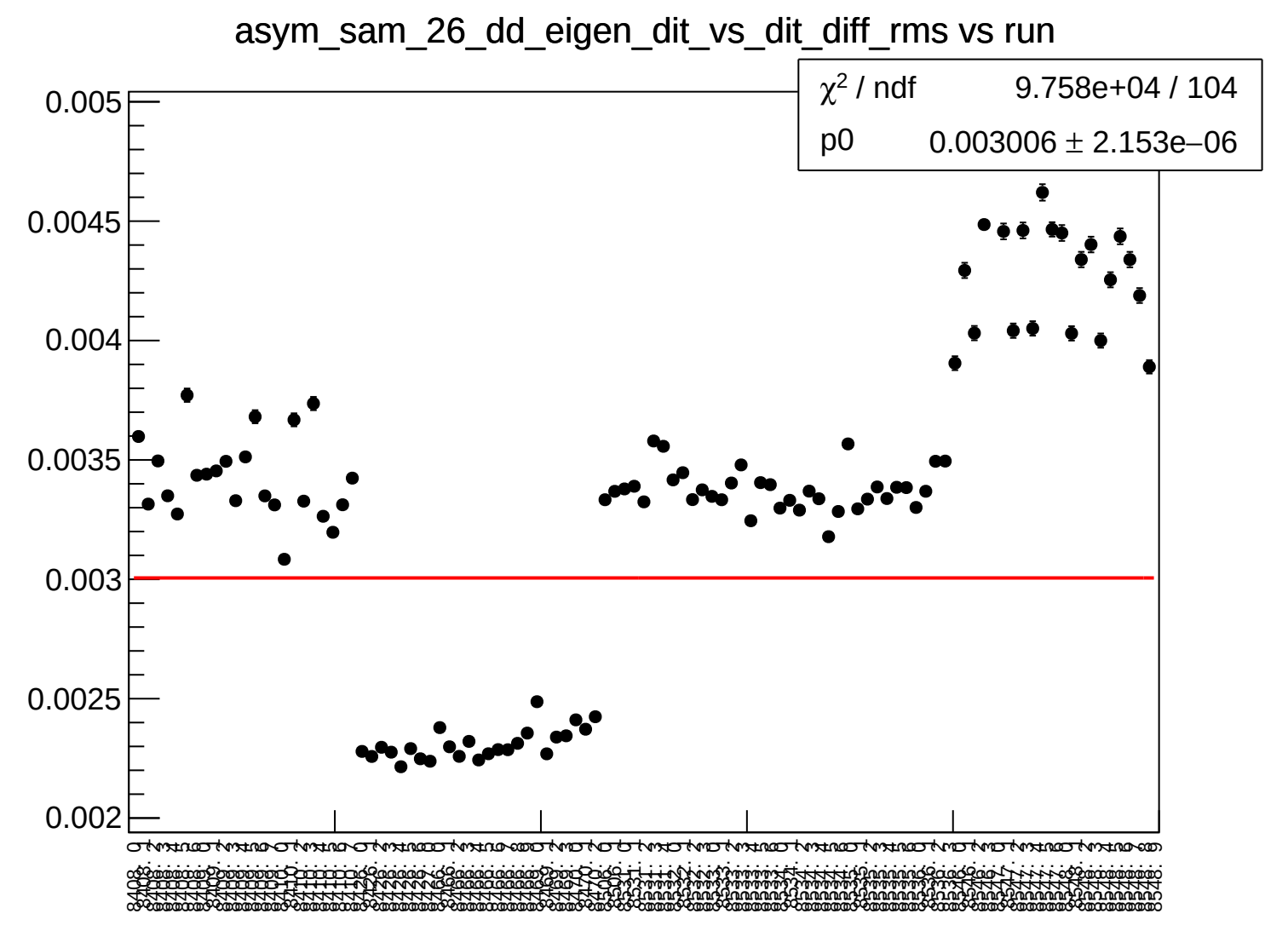

asym_sam_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 7.745e+04 / 104
p0 102.5 ± 0.07308
160
150
140
130
120
110
100
90
80
70

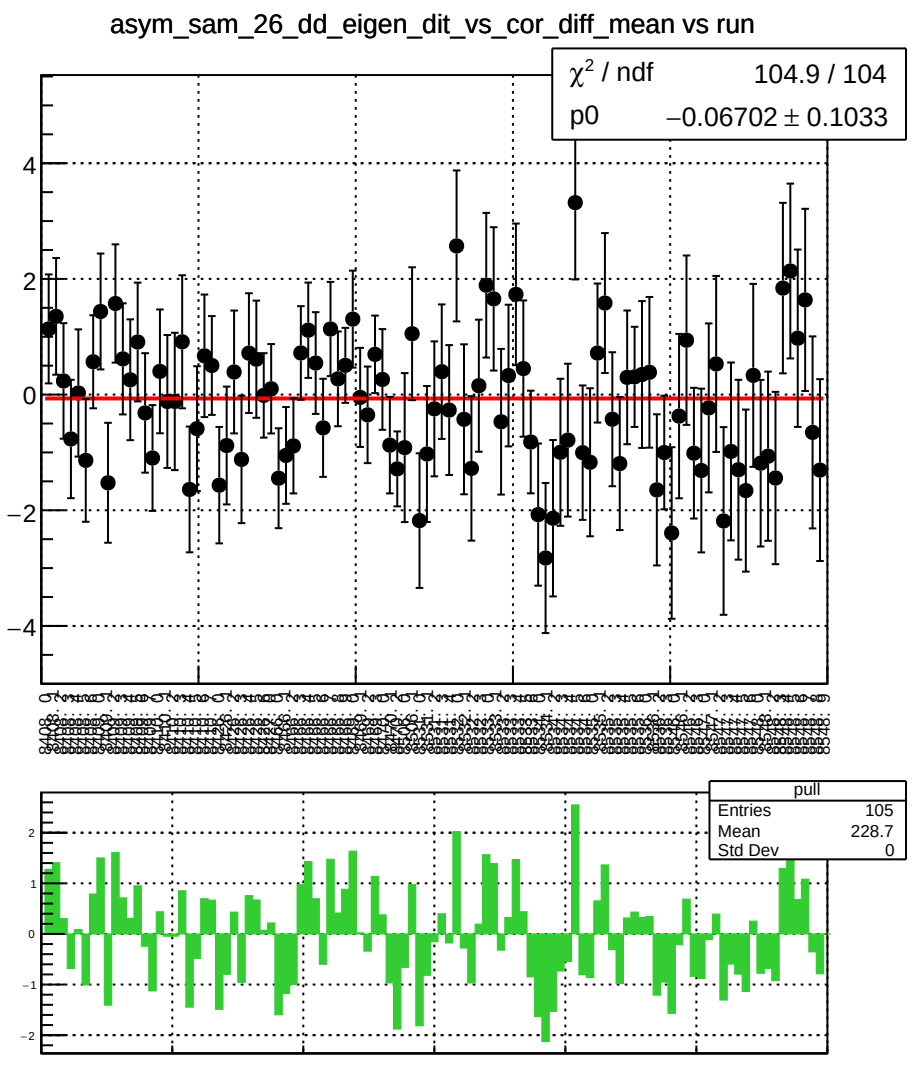

asym_sam_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.9 / 104
p0 −0.06703 ± 0.1033
pull
Entries 105
Mean 228.7
Std Dev 0
pull1D
Entries 105
Mean −0.02452
Std Dev 0.9991

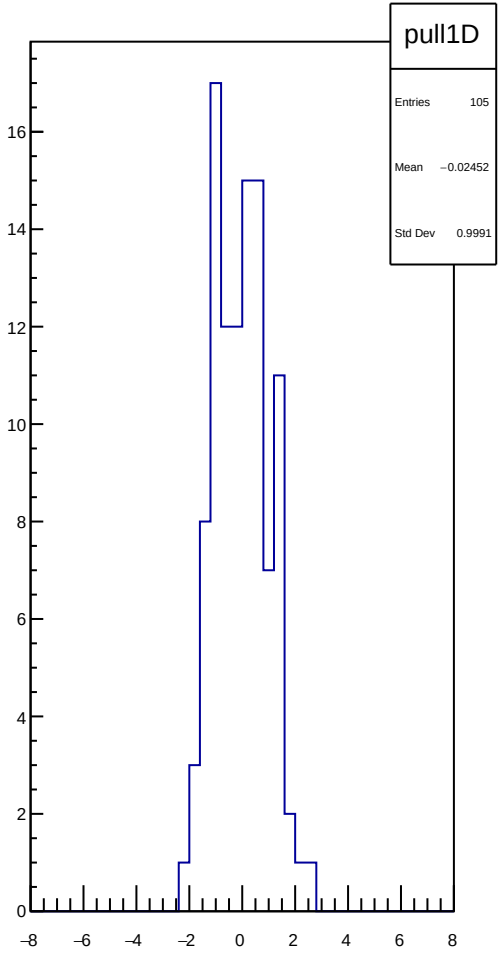

asym_sam_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.745e+04 / 104
p0 102.5 ± 0.07308
160
150
140
130
120
110
100
90
80
70

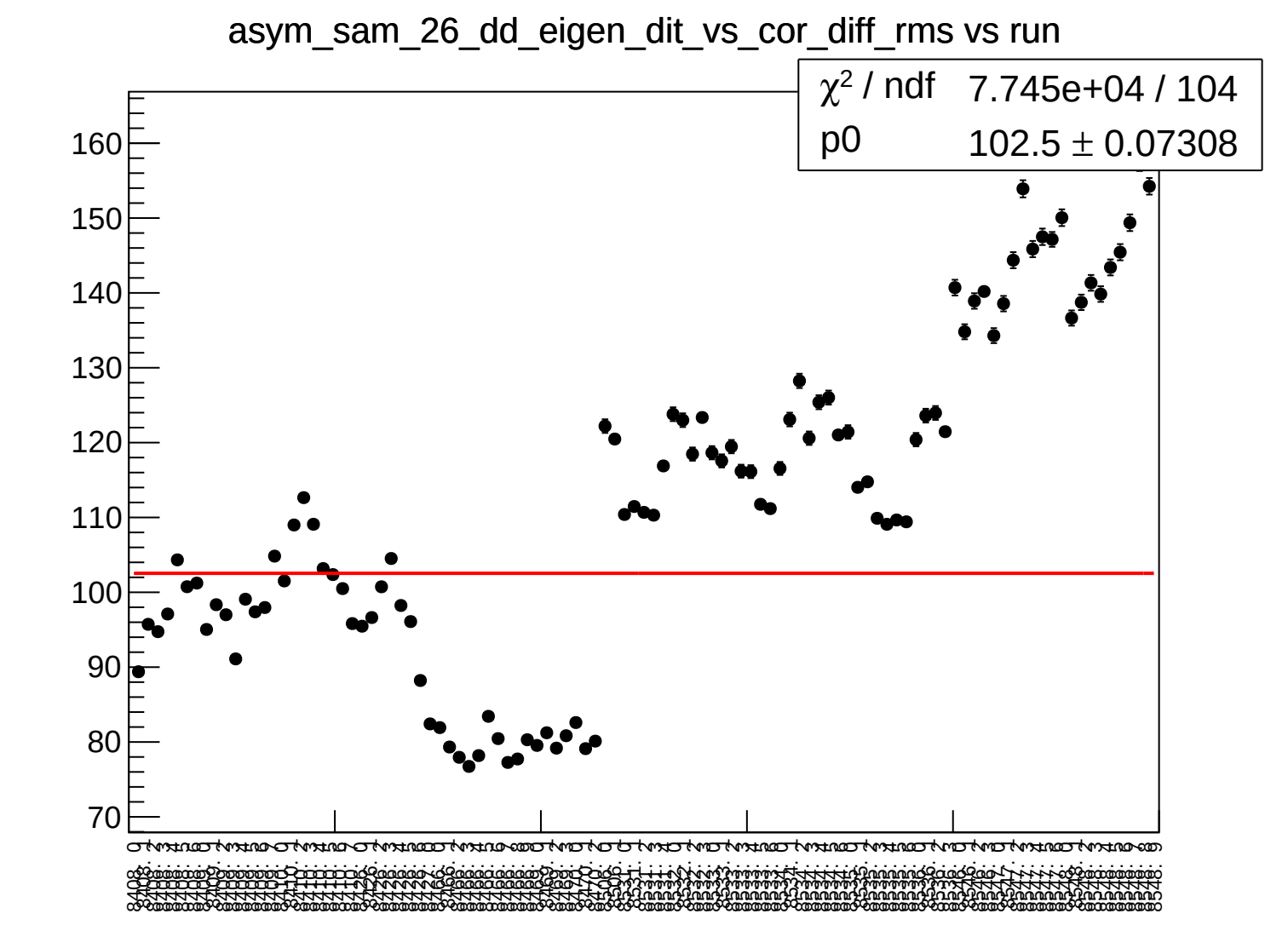

asym_sam_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 107.9 / 104
p0 8.258e−06 ± 3.045e−06
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 105
Mean 269.5
Std Dev 0
3
2
1
0
−1
−2

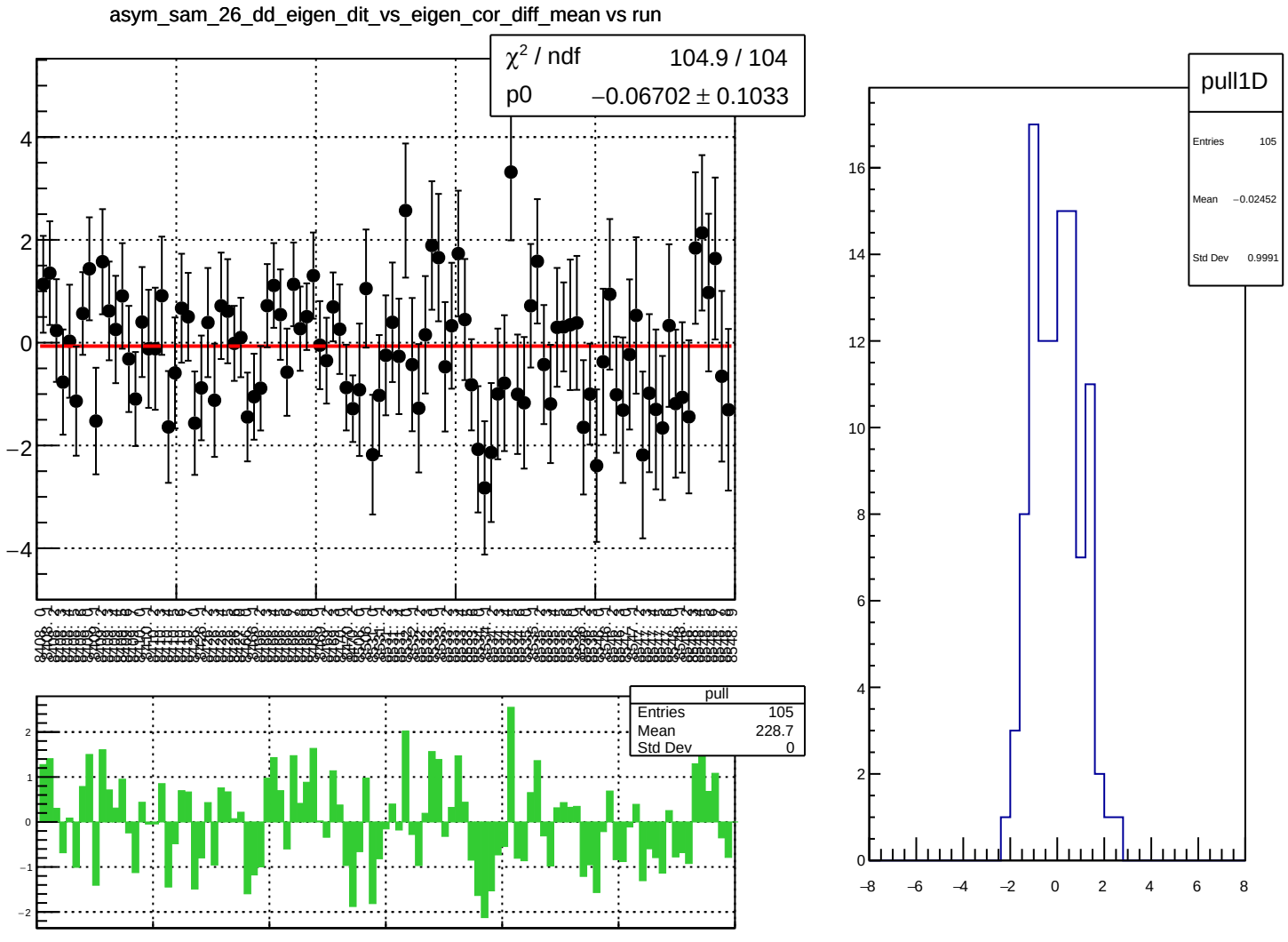

pull1D
Entries 105
Mean −0.009541
Std Dev 1.014
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

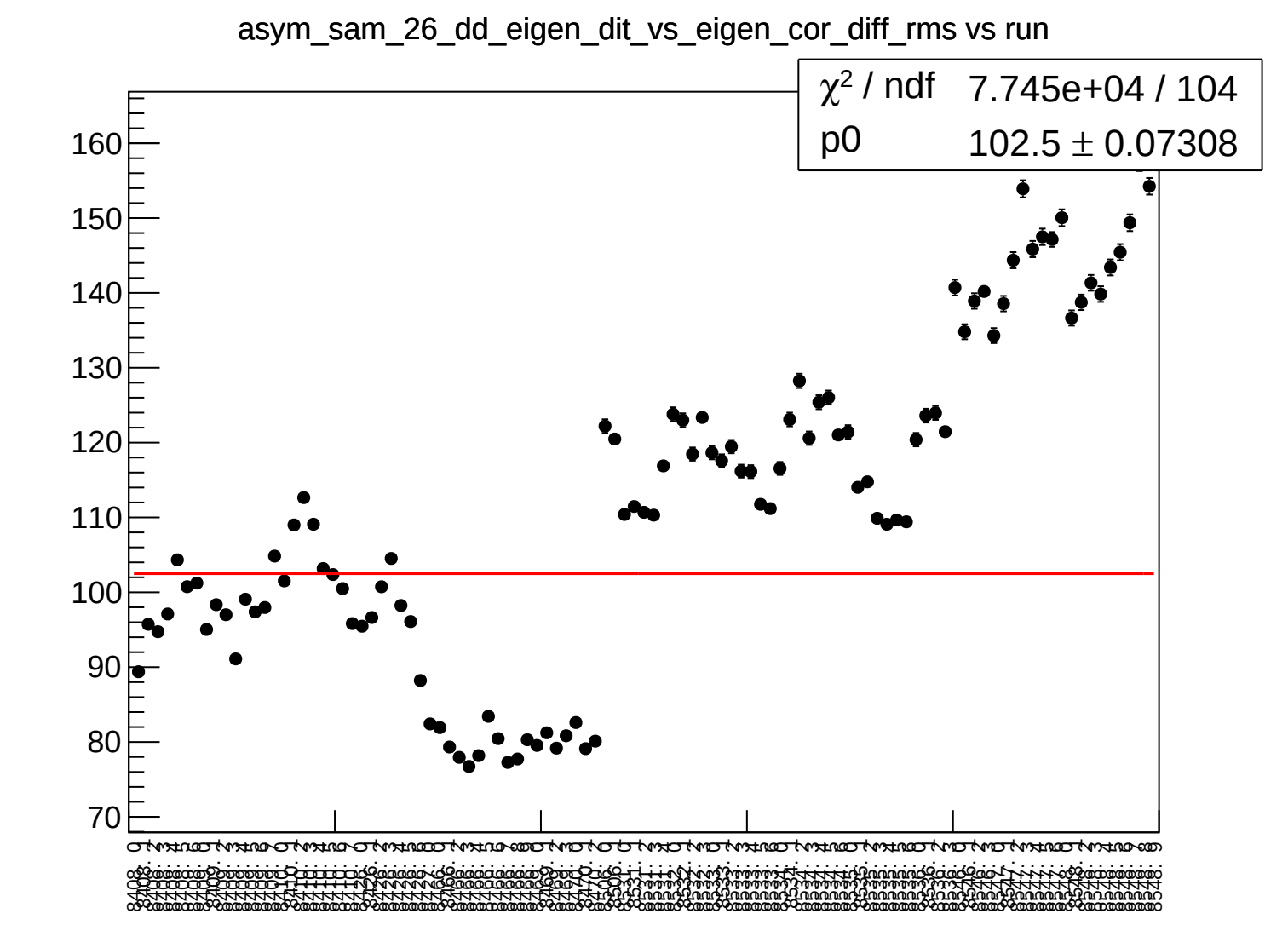

asym_sam_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 9.758e+04 / 104
p0 0.003006 ± 2.153e−06
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002

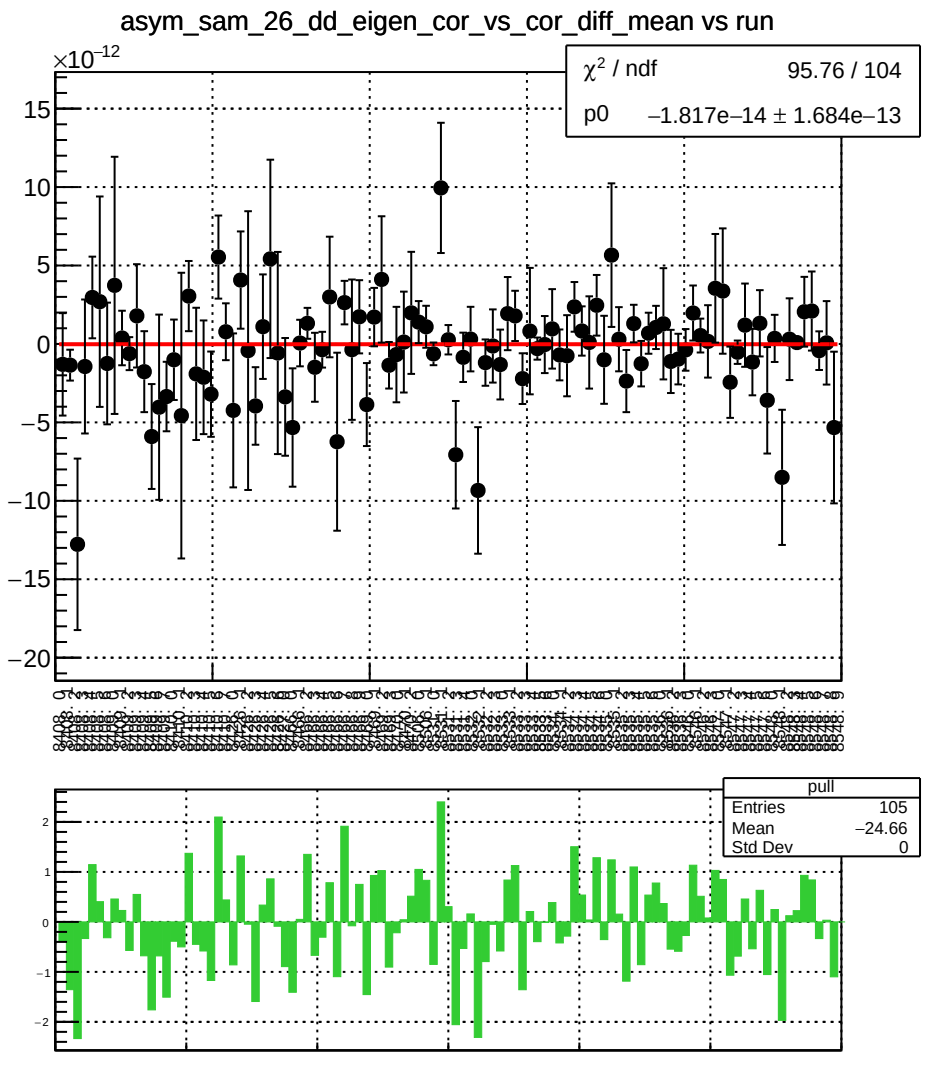

asym_sam_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 104.9 / 104
p0 −0.06702 ± 0.1033
pull
Entries 105
Mean 228.7
Std Dev 0

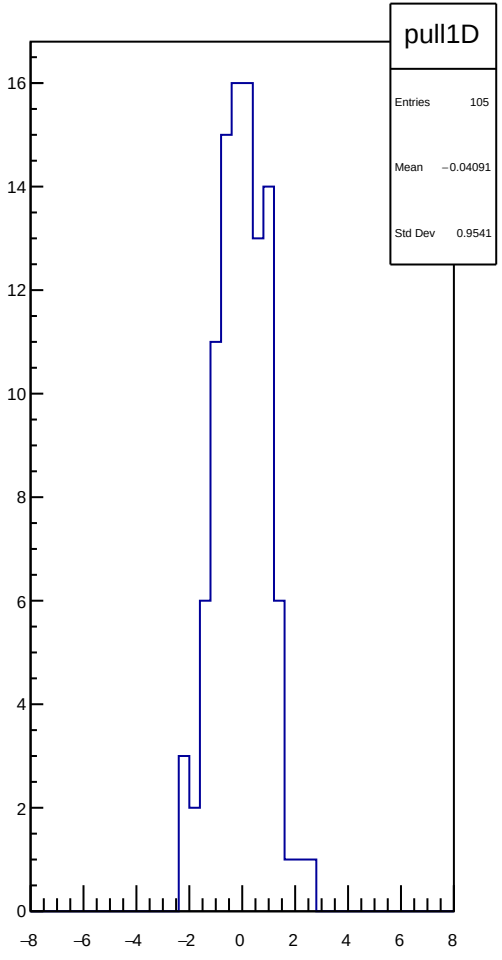

pull1D
Entries 105
Mean −0.02452
Std Dev 0.9991

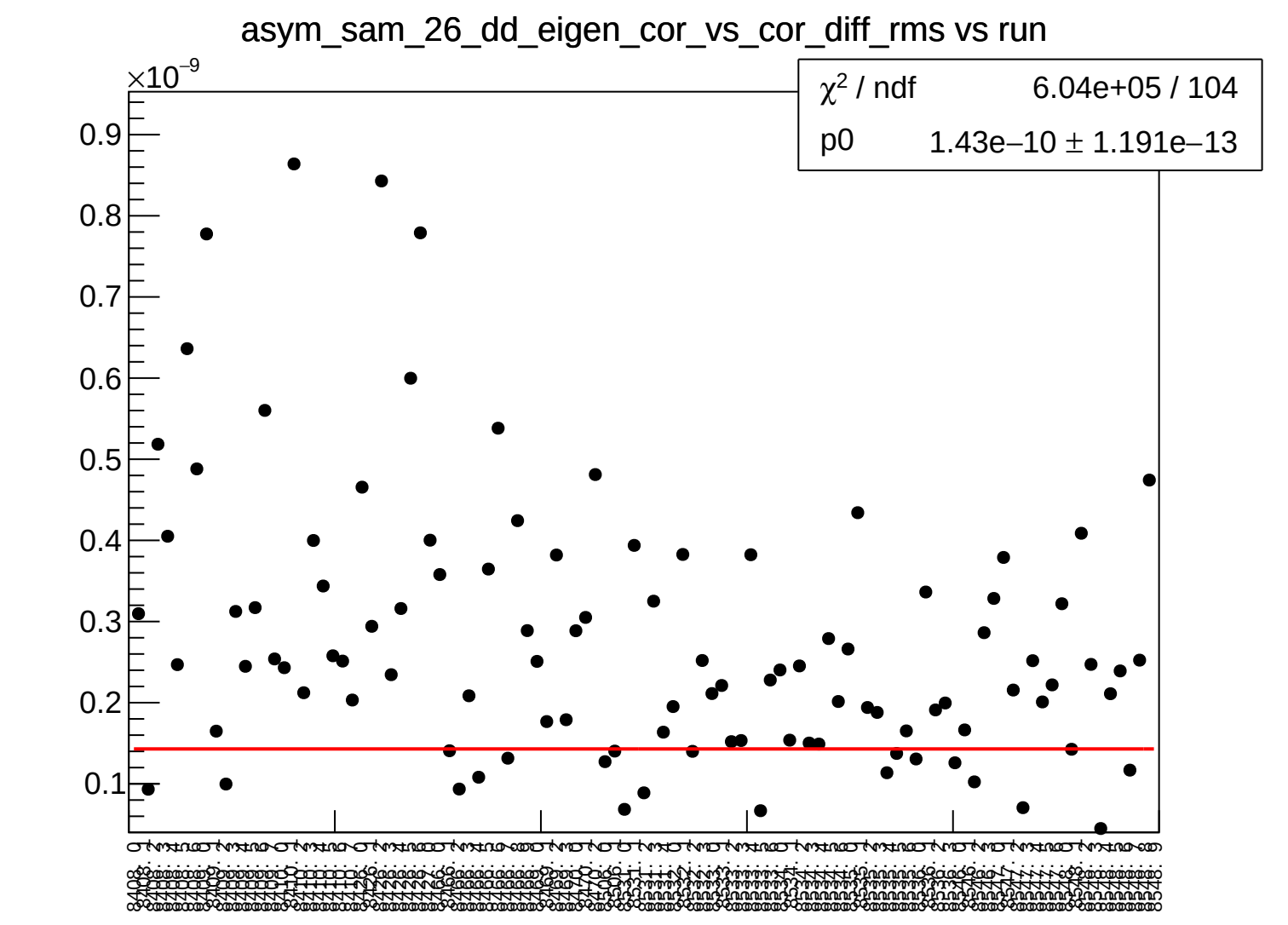

asym_sam_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 7.745e+04 / 104
p0 102.5 ± 0.07308
160
150
140
130
120
110
100
90
80
70

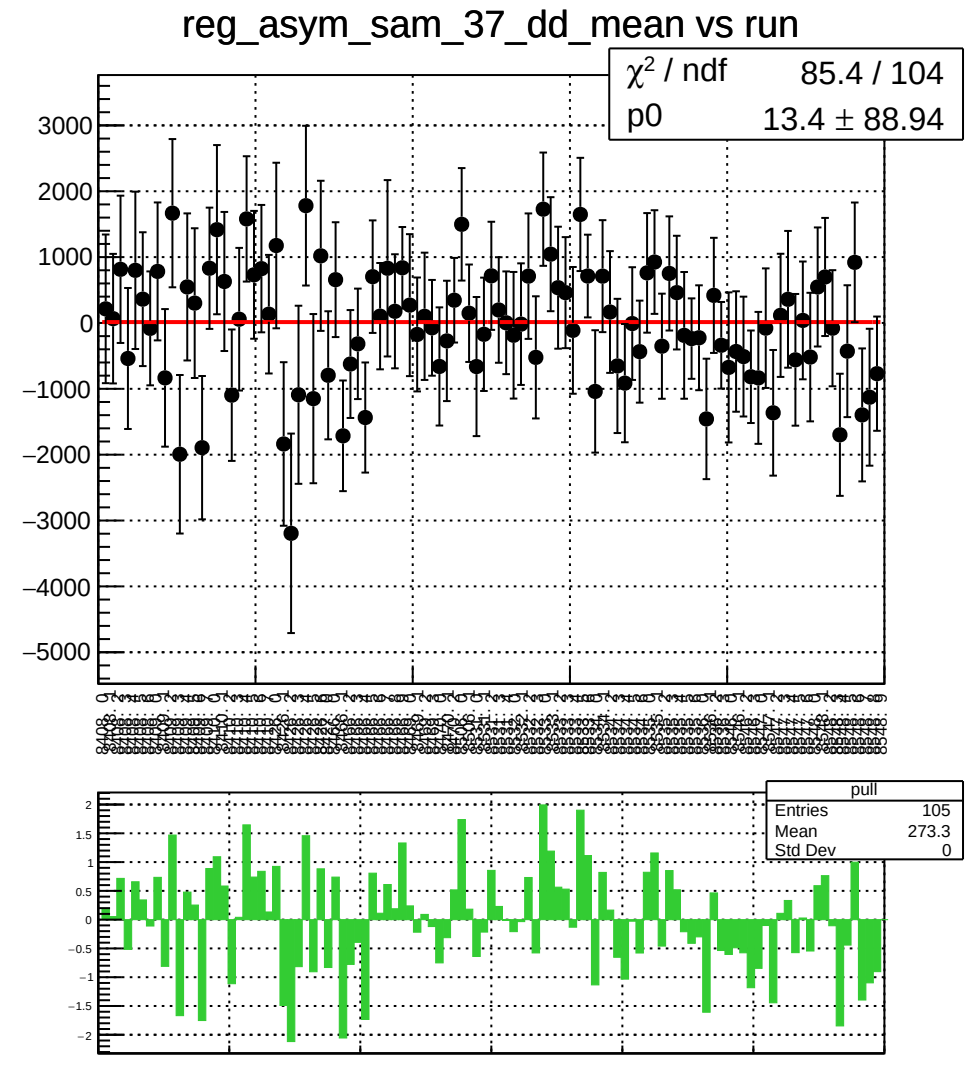

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 104.9 / 104
p0 −0.06702 ± 0.1033
pull
Entries 105
Mean 228.7
Std Dev 0
pull1D
Entries 105
Mean −0.02452
Std Dev 0.9991

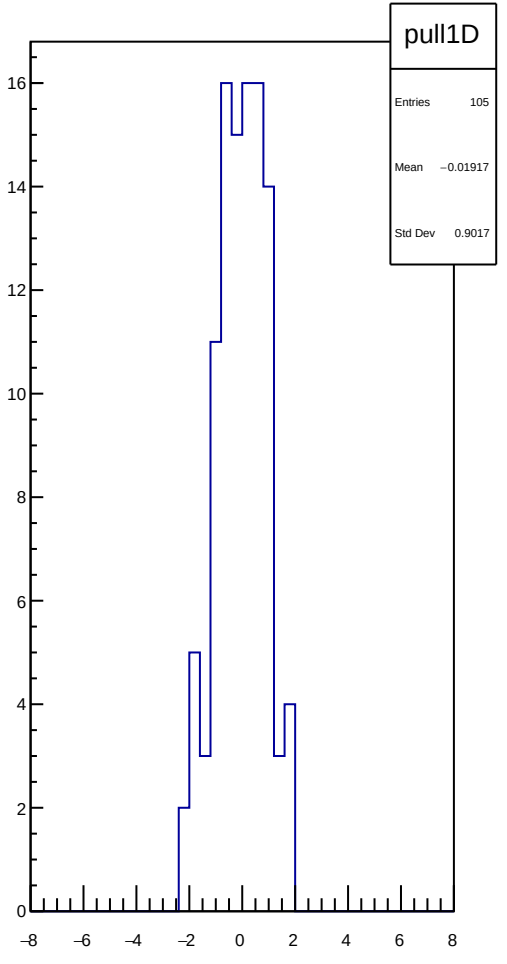

asym_sam_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 7.745e+04 / 104
p0 102.5 ± 0.07308
160
150
140
130
120
110
100
90
80
70

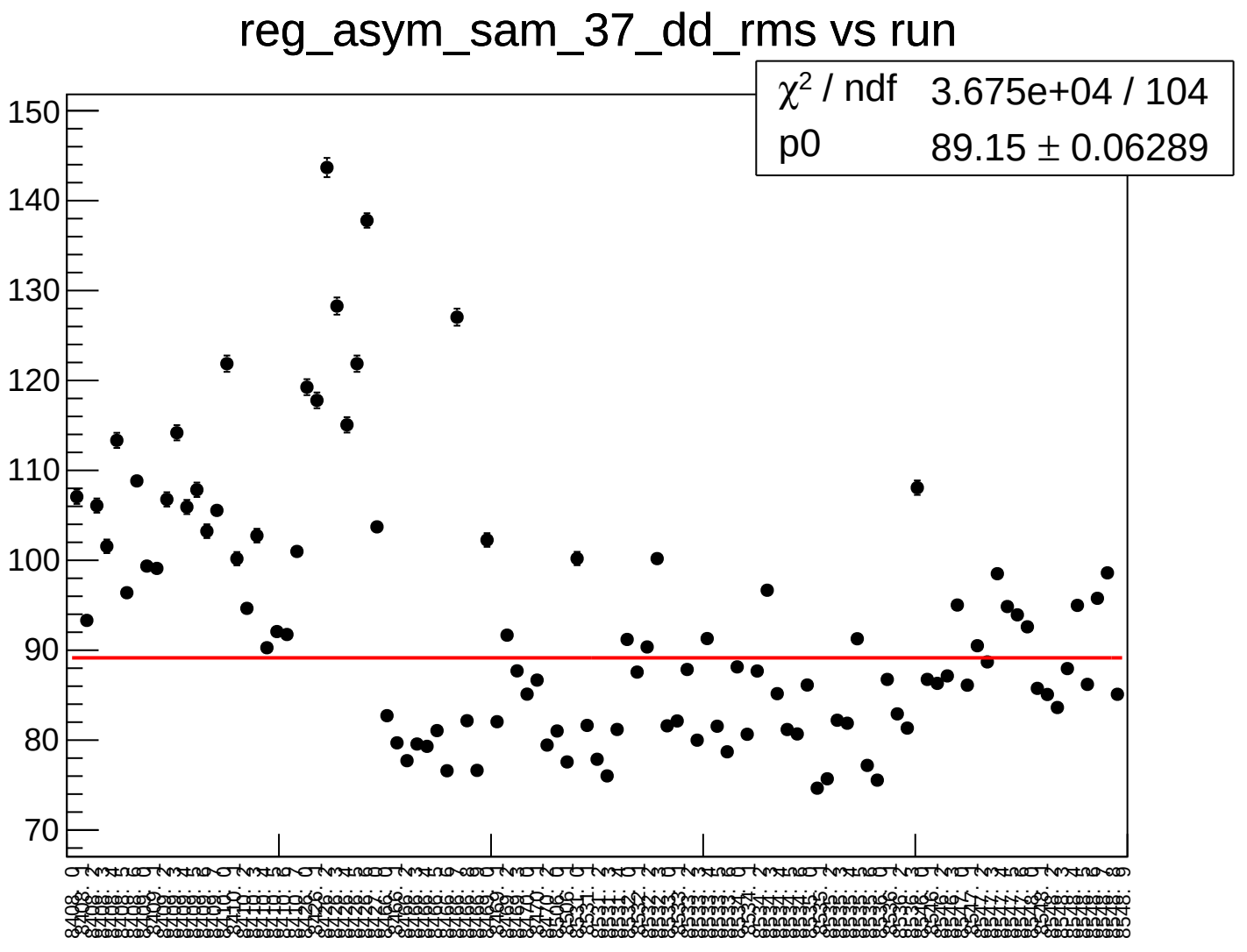

asym_sam_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.76 / 104
p0 −1.817e−14 ± 1.684e−13
15
10
5
0
−5
−10
−15
−20
pull
Entries 105
Mean −24.66
Std Dev 0
2
1
0
−1
−2

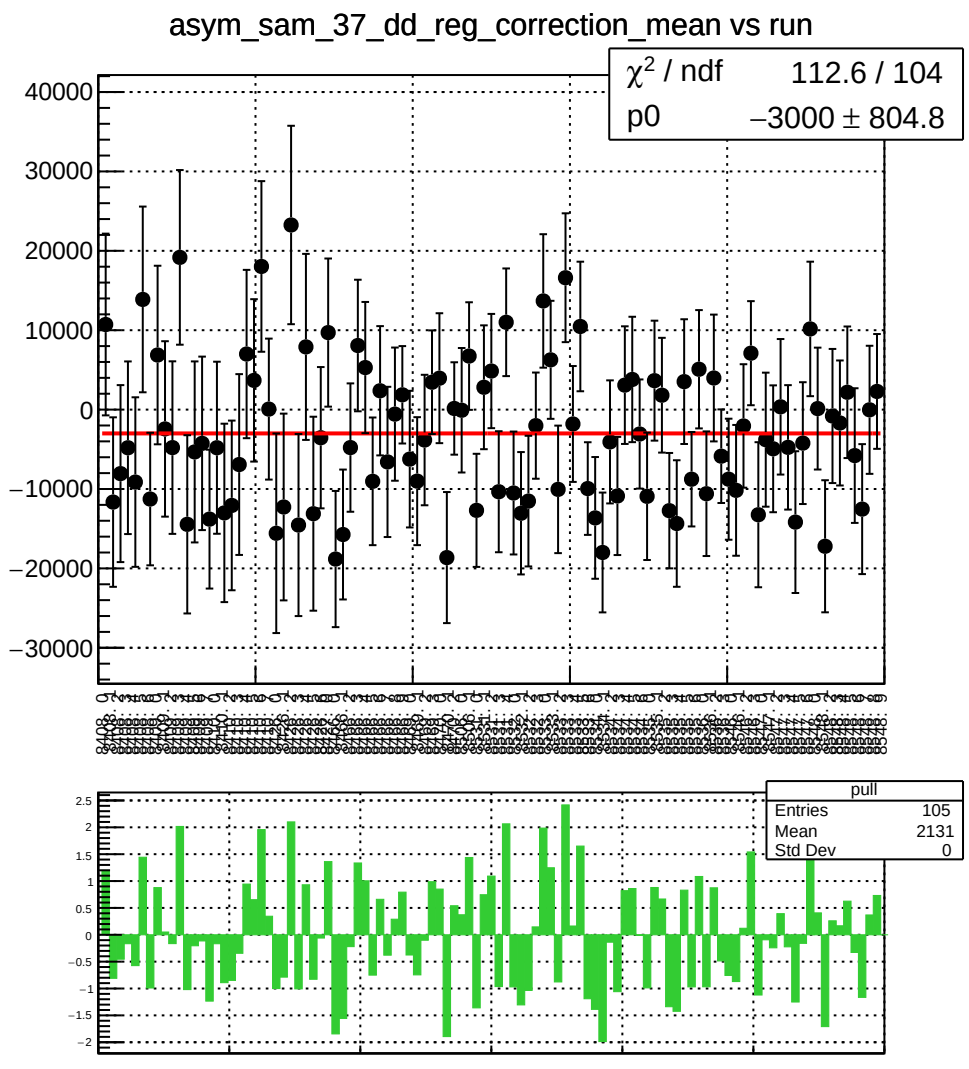

pull1D
Entries 105
Mean −0.04091
Std Dev 0.9541
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

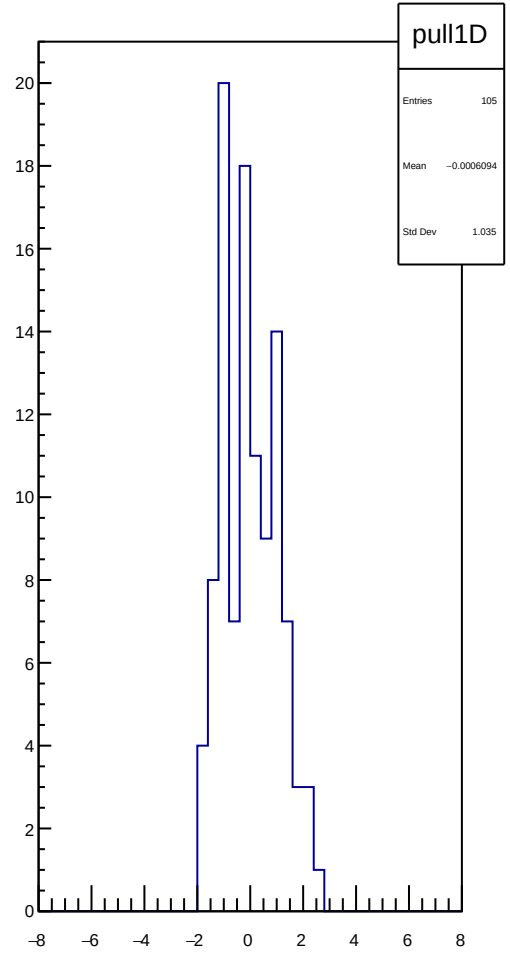

asym_sam_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.04e+05 / 104
p0 1.43e−10 ± 1.191e−13
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

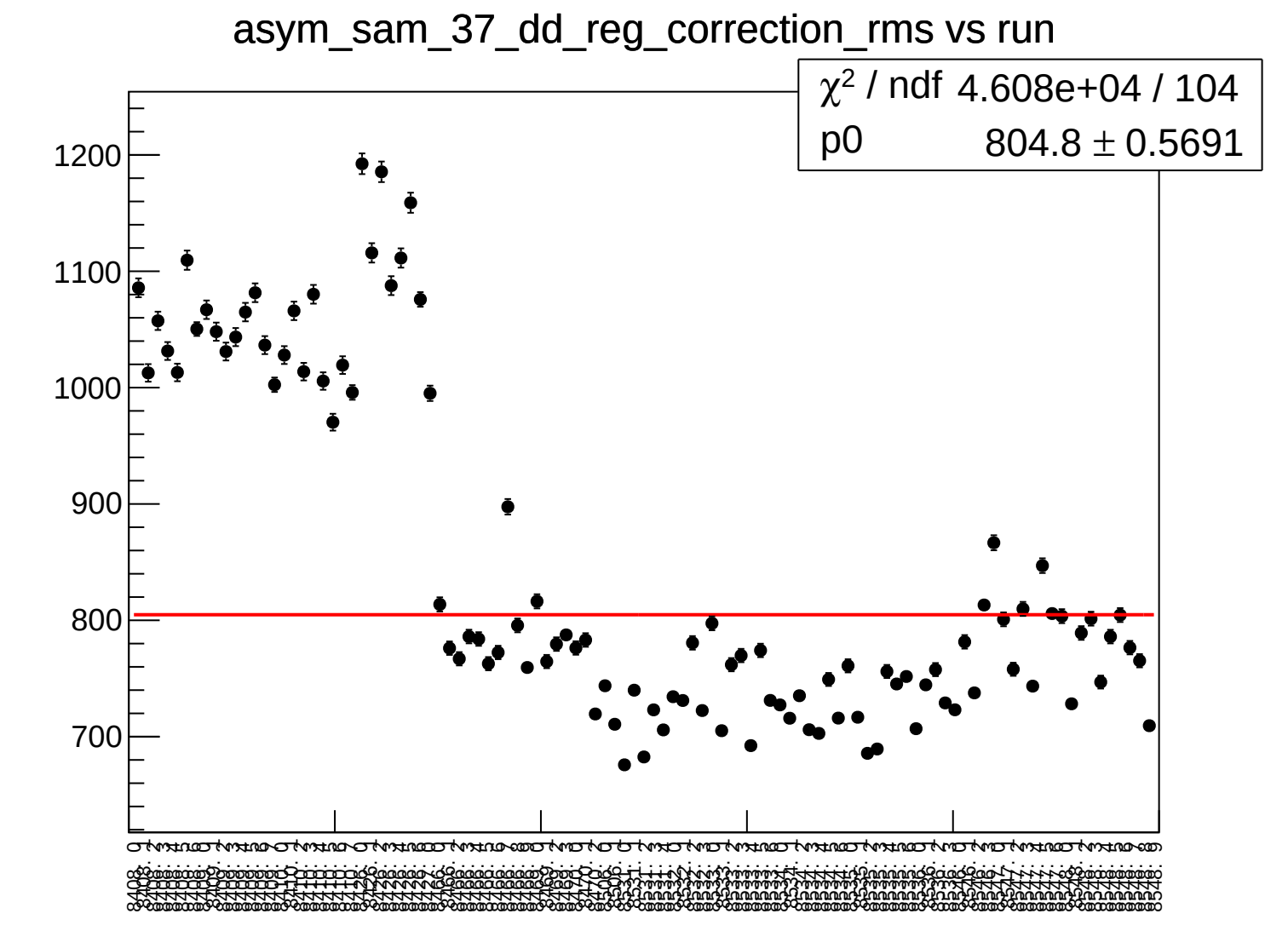

reg_asym_sam_37_dd_mean vs run
χ² / ndf 85.4 / 104
p0 13.4 ± 88.94
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
pull
Entries 105
Mean 273.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

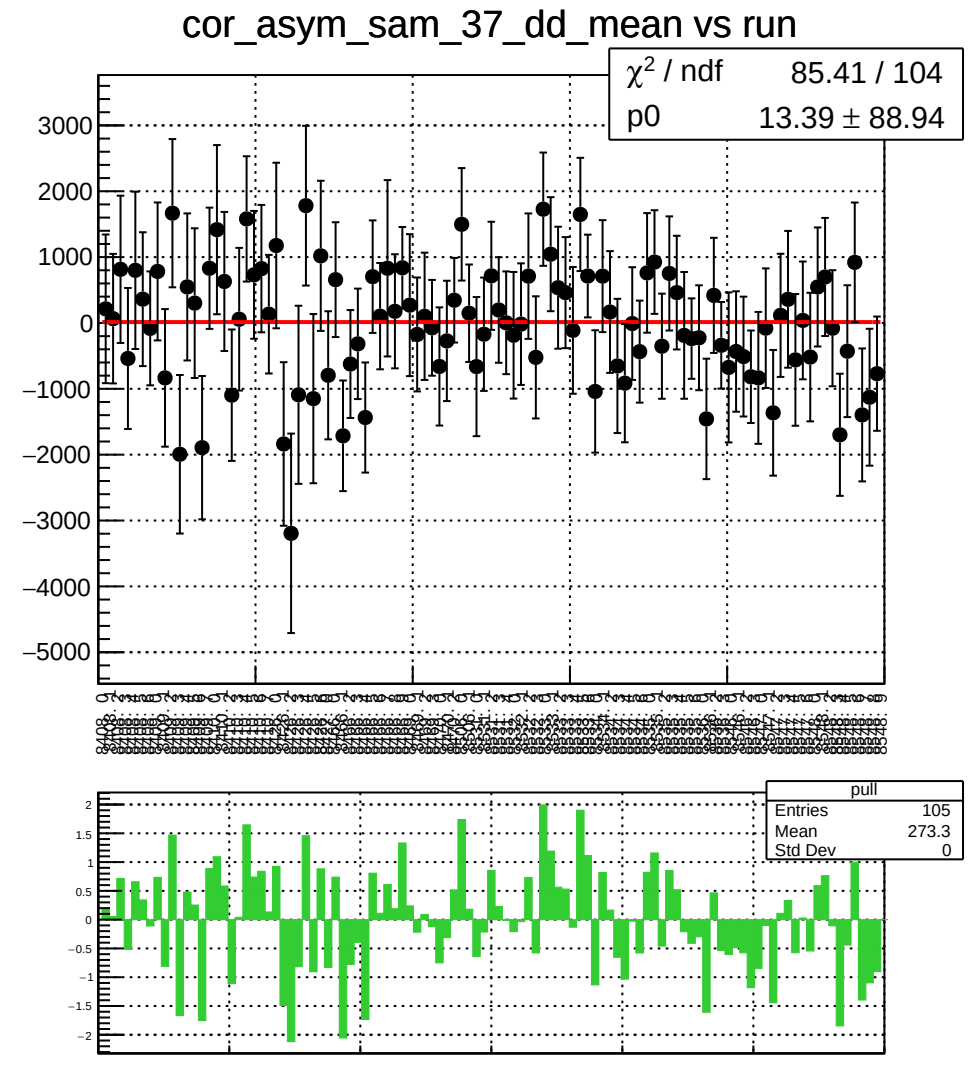

pull1D
Entries 105
Mean −0.01917
Std Dev 0.9017
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

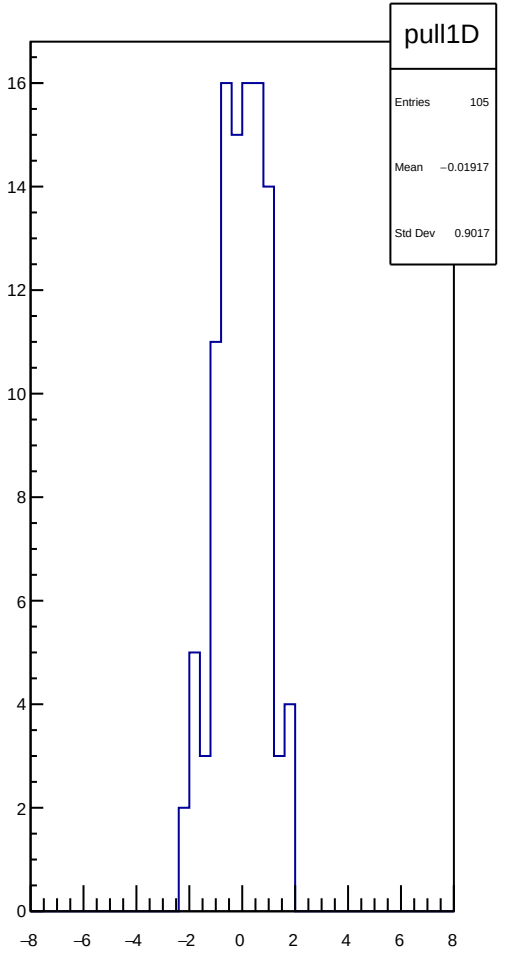

reg_asym_sam_37_dd_rms vs run
χ² / ndf 3.675e+04 / 104
p0 89.15 ± 0.06289
150
140
130
120
110
100
90
80
70


asym_sam_37_dd_reg_correction_mean vs run
χ² / ndf 112.6 / 104
p0 −3000 ± 804.8
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 105
Mean 2131
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 105
Mean −0.0006094
Std Dev 1.035
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 4.608e+04 / 104
p0 804.8 ± 0.5691
1200
1100
1000
900
800
700


cor_asym_sam_37_dd_mean vs run
χ² / ndf 85.41 / 104
p0 13.39 ± 88.94
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
pull
Entries 105
Mean 273.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 105
Mean −0.01917
Std Dev 0.9017
16
14
12
10
8
6
4
2
0
−8
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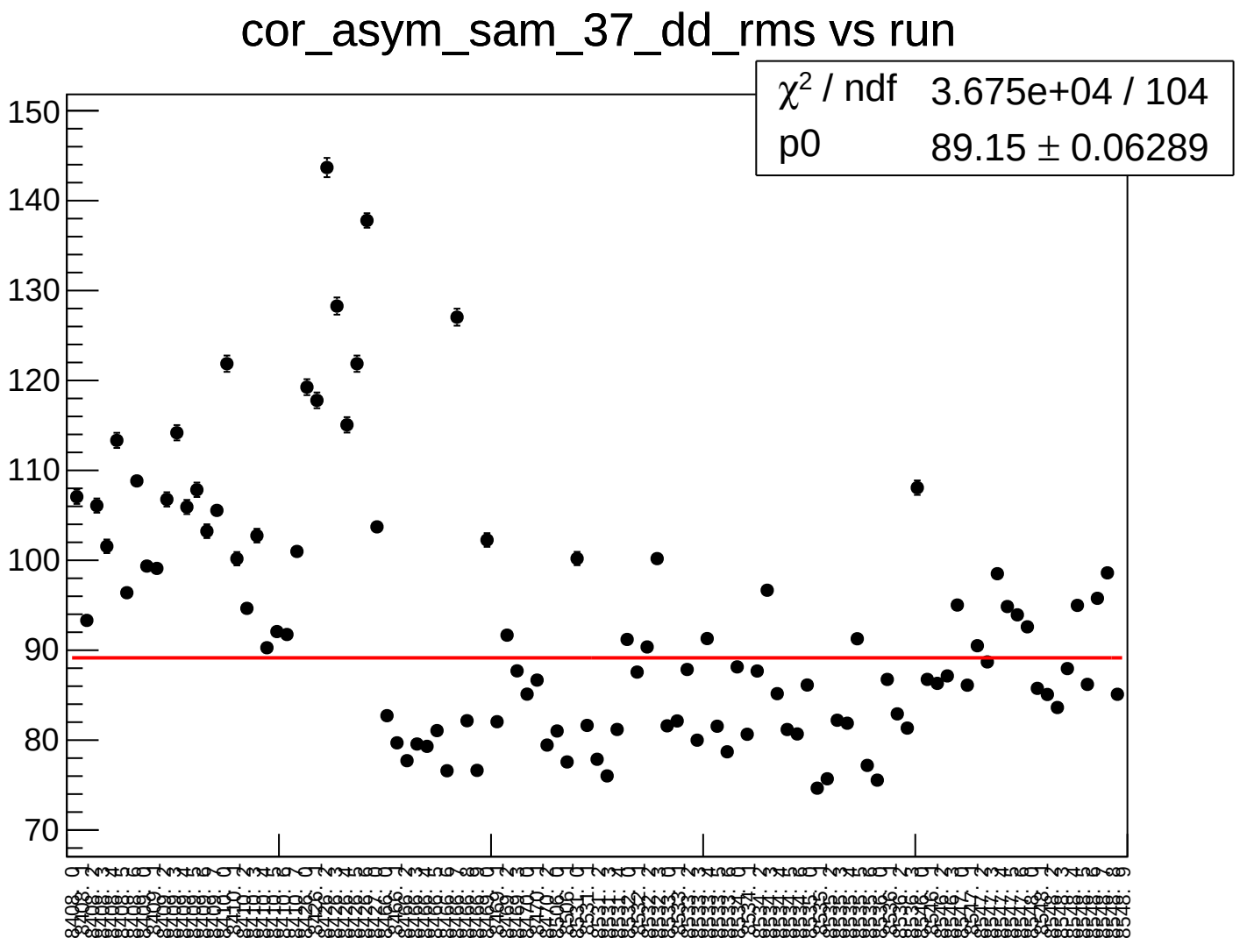
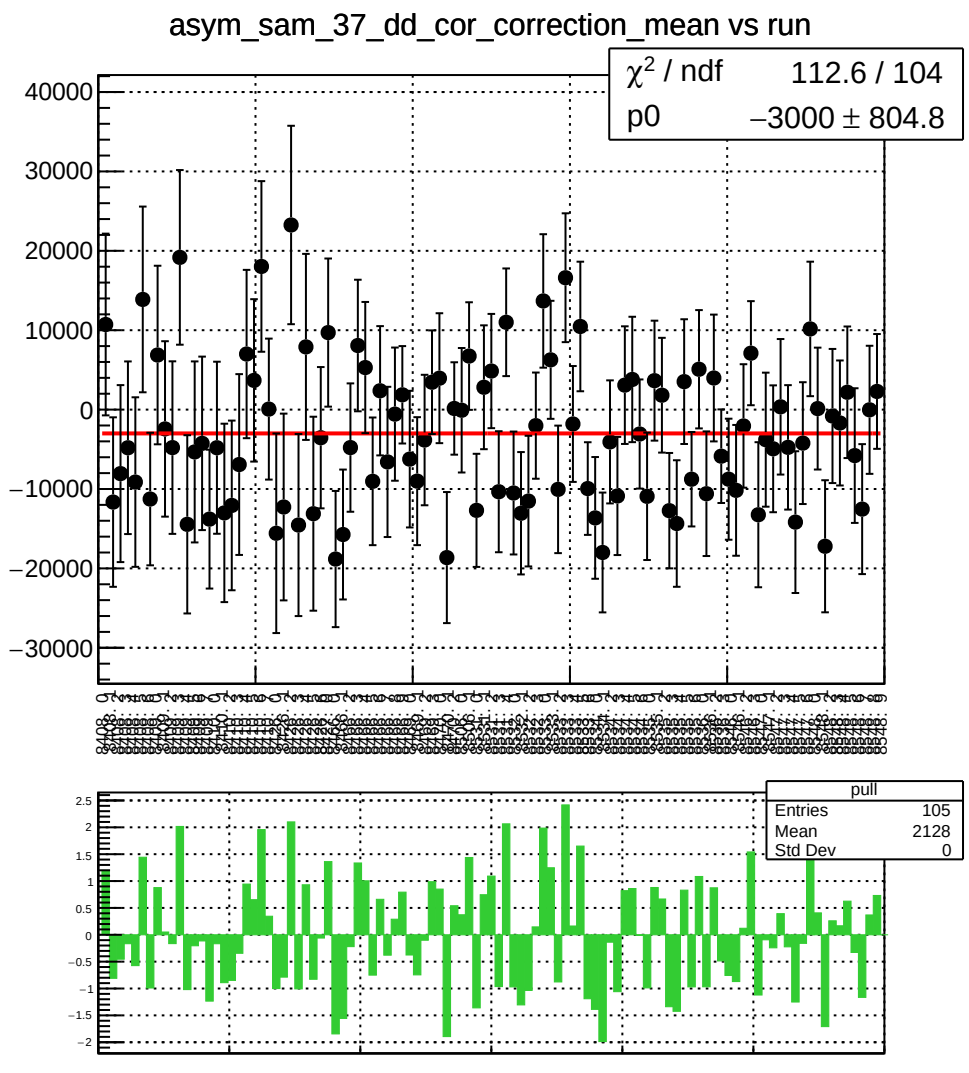
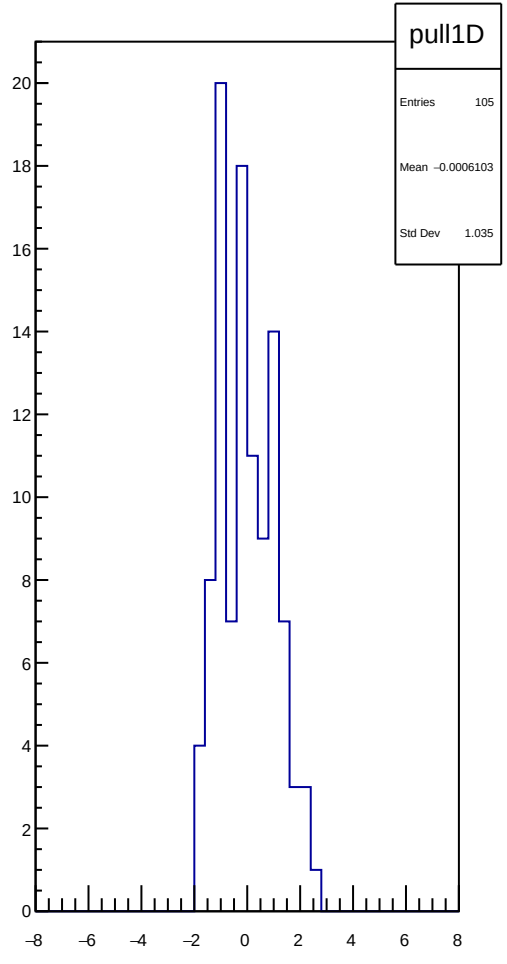
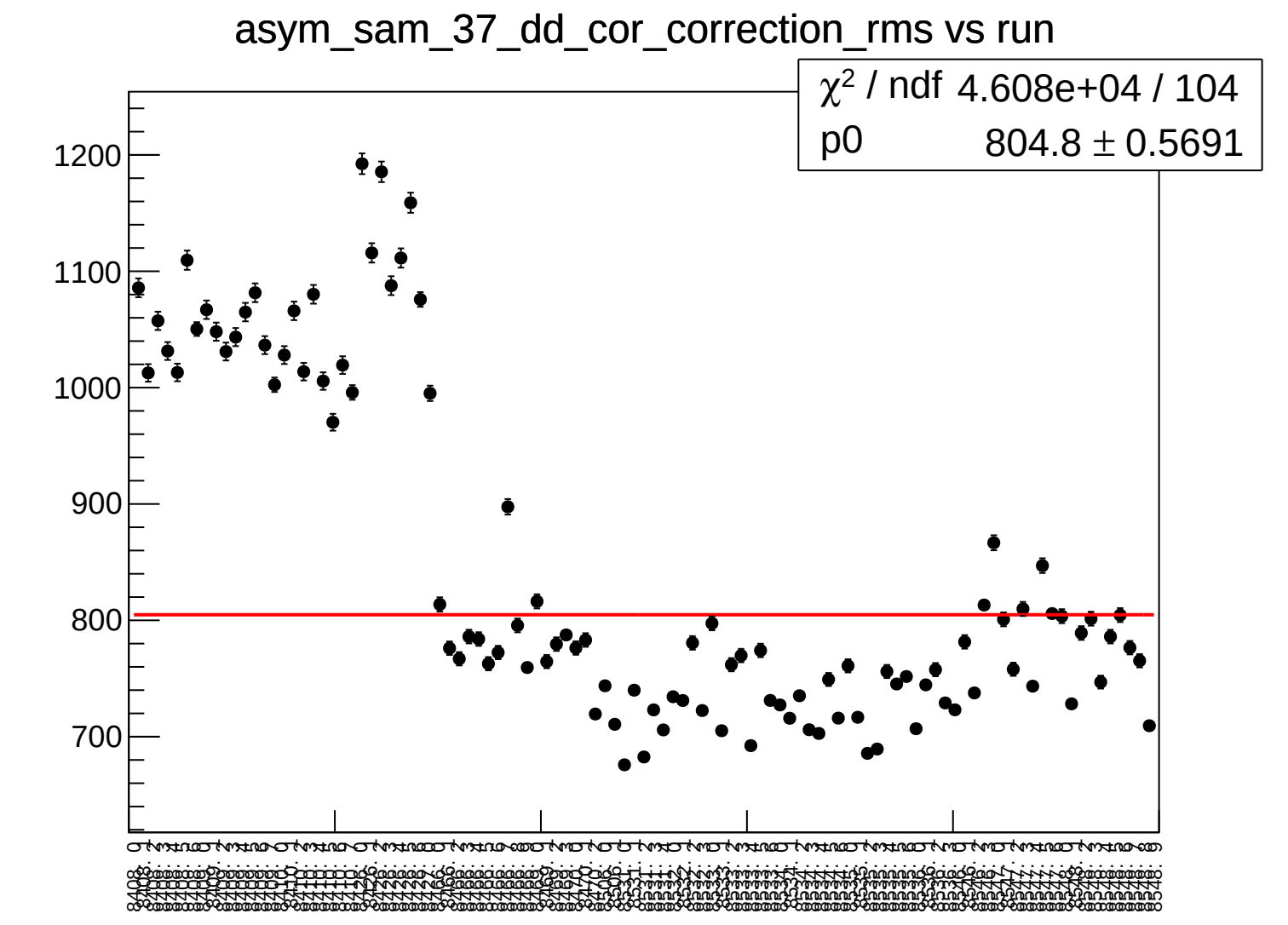
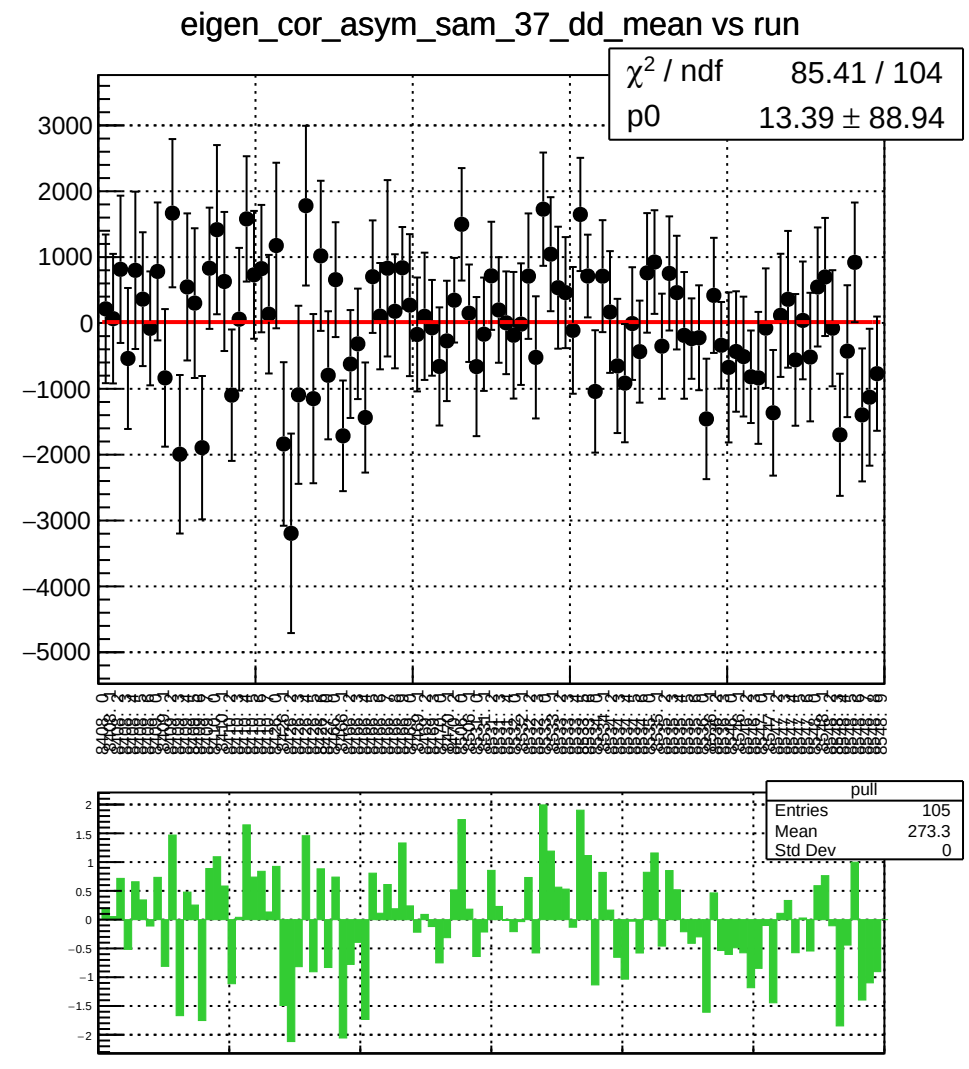
2
4
6
8

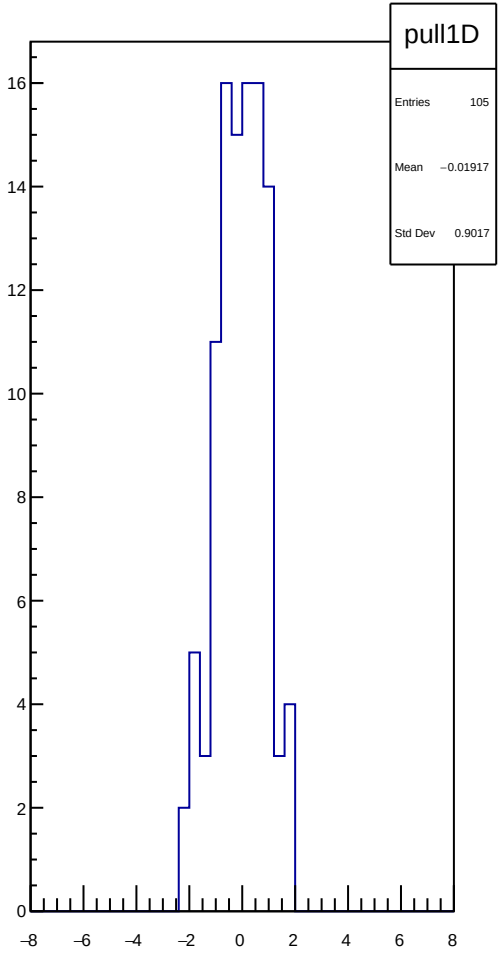

cor_asym_sam_37_dd_rms vs run
χ^2 / ndf 3.675e+04 / 104
p0 89.15 ± 0.06289
150
140
130
120
110
100
90
80
70


asym_sam_37_dd_cor_correction_mean vs run
χ^2 / ndf 112.6 / 104
p0 −3000 ± 804.8
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 105
Mean 2128
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 105
Mean −0.0006103
Std Dev 1.035
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 4.608e+04 / 104
p0 804.8 ± 0.5691
1200
1100
1000
900
800
700


eigen_cor_asym_sam_37_dd_mean vs run
χ² / ndf 85.41 / 104
p0 13.39 ± 88.94
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
pull
Entries 105
Mean 273.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 105
Mean −0.01917
Std Dev 0.9017
16
14
12
10
8
6
4
2
0
−8
−6
−4
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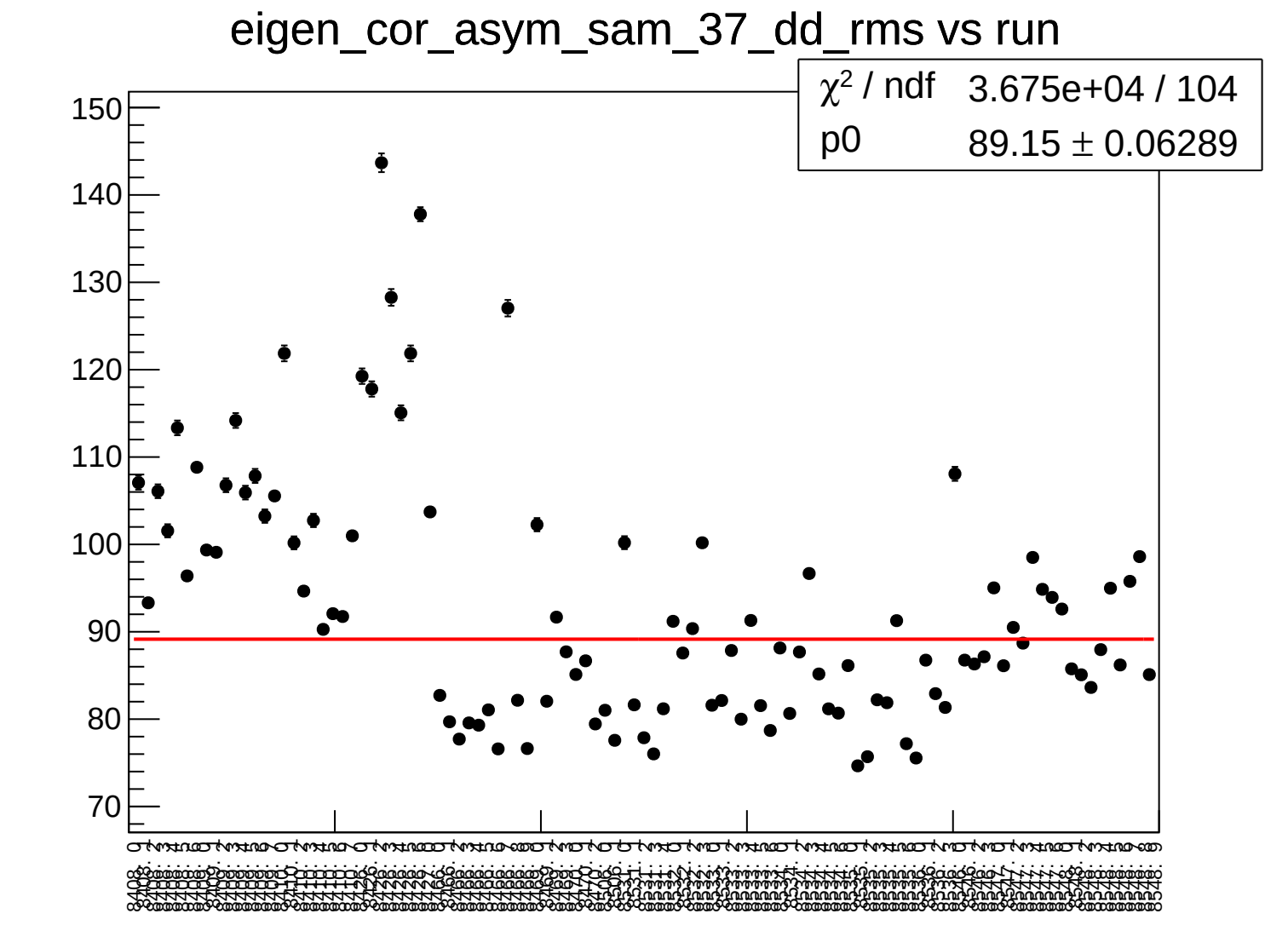
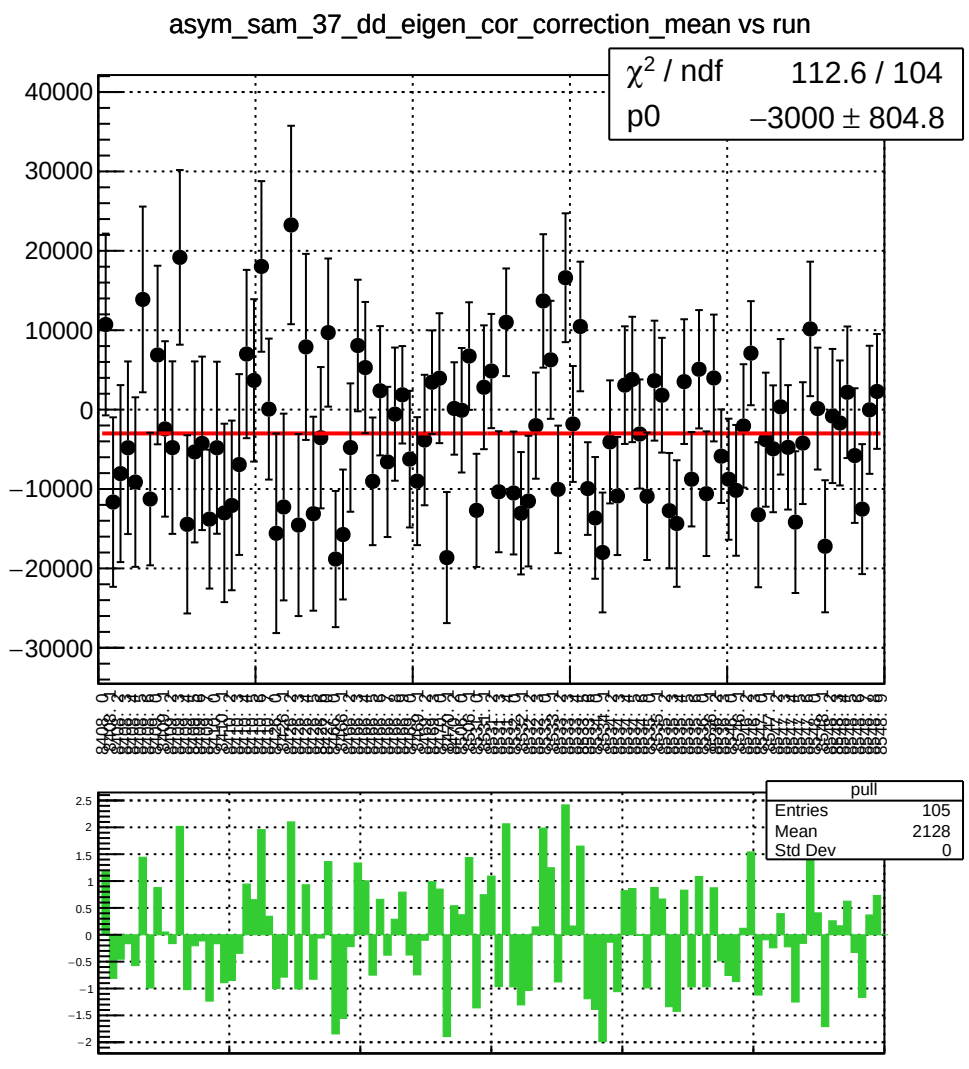
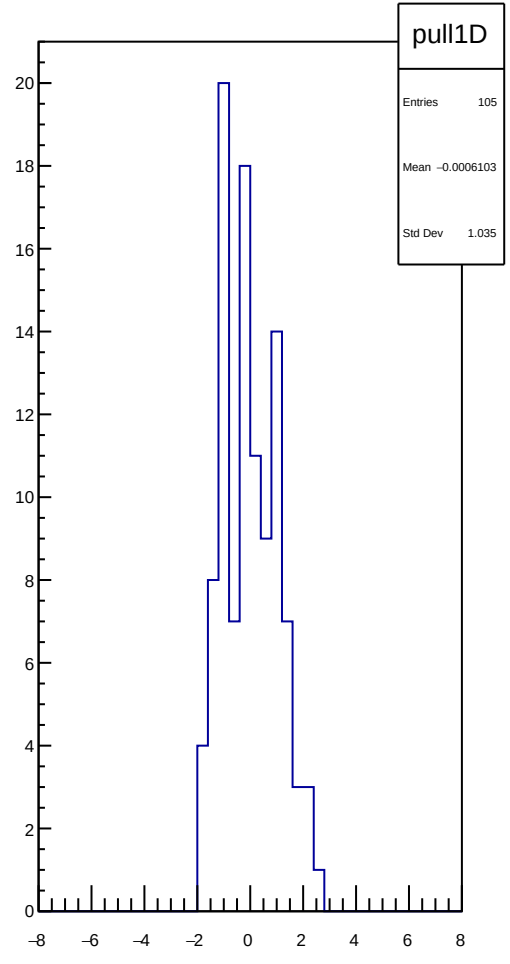
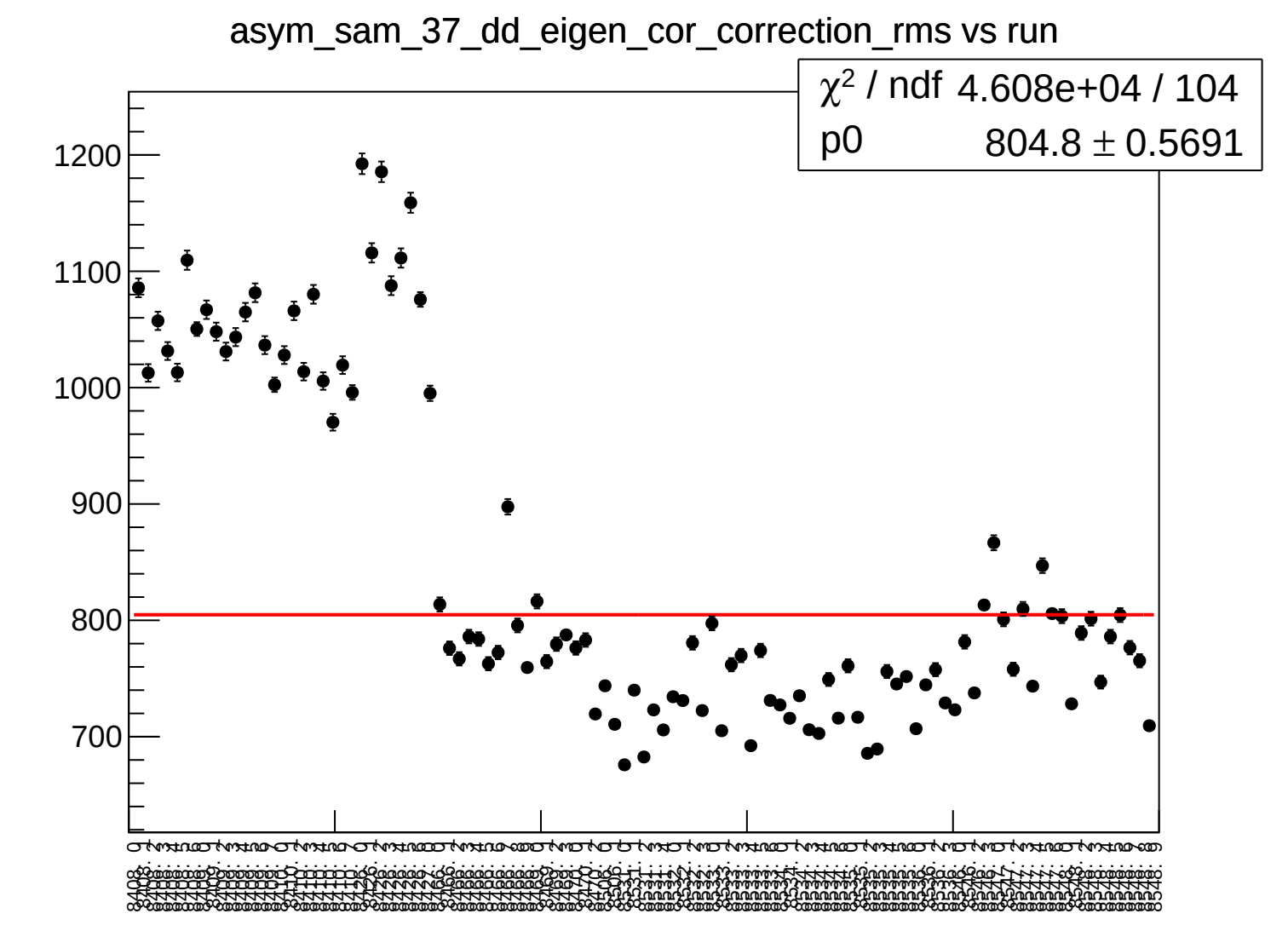
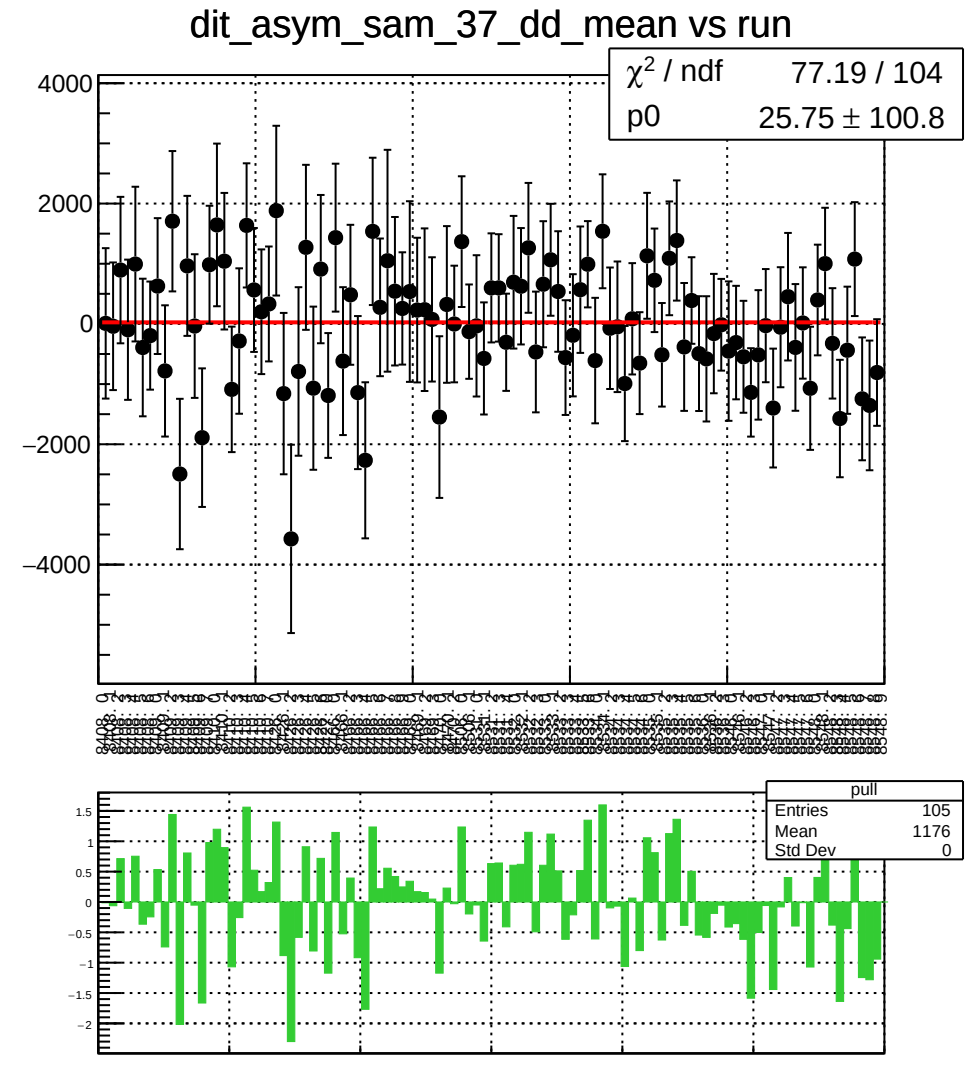
0
2
4
6
8

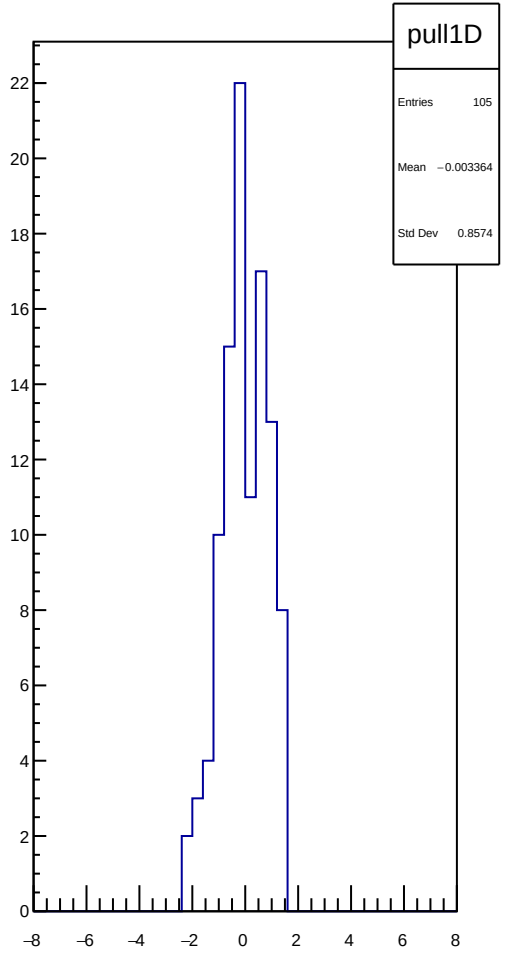

eigen_cor_asym_sam_37_dd_rms vs run
χ² / ndf 3.675e+04 / 104
p0 89.15 ± 0.06289
150
140
130
120
110
100
90
80
70

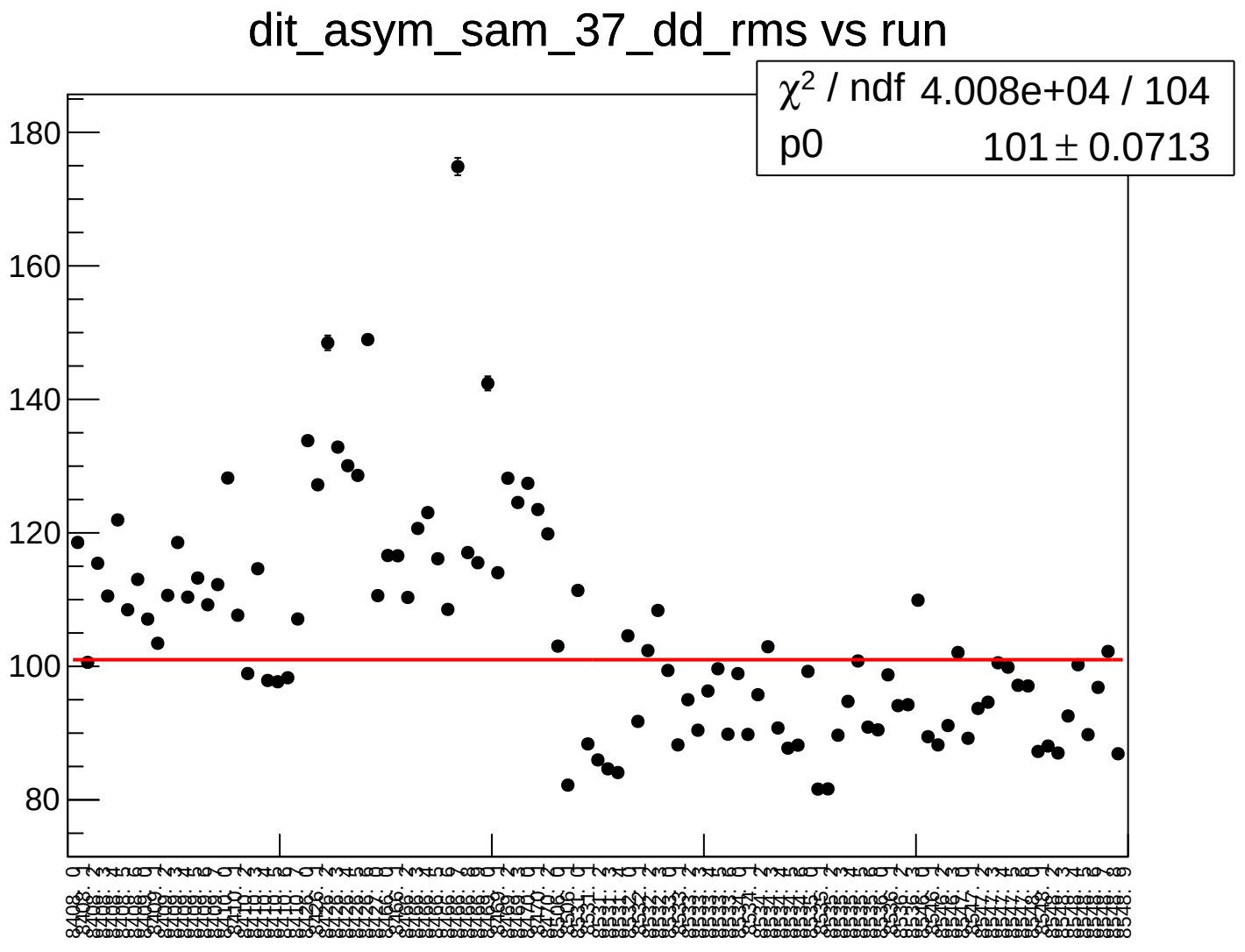

asym_sam_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 112.6 / 104
p0 −3000 ± 804.8
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 105
Mean 2128
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

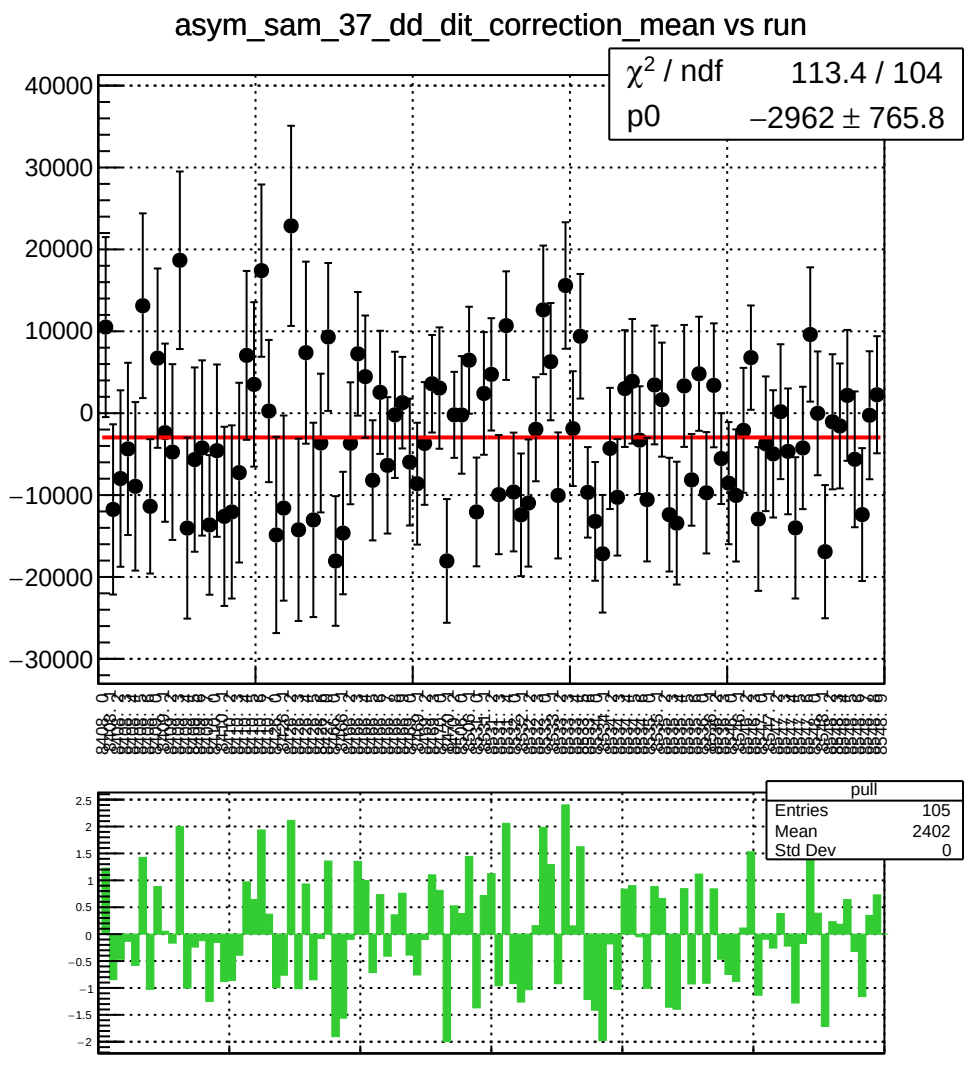

pull1D
Entries 105
Mean −0.0006103
Std Dev 1.035
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

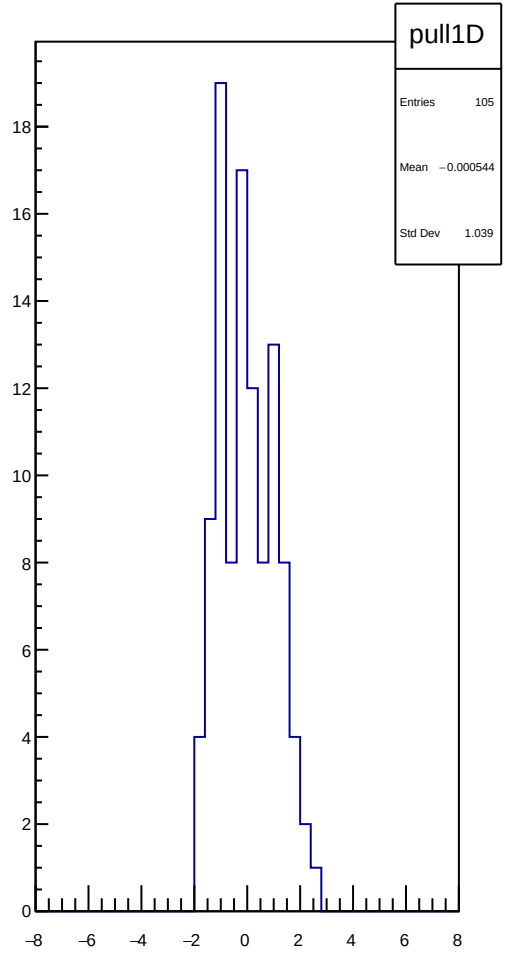

asym_sam_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 4.608e+04 / 104
p0 804.8 ± 0.5691
1200
1100
1000
900
800
700

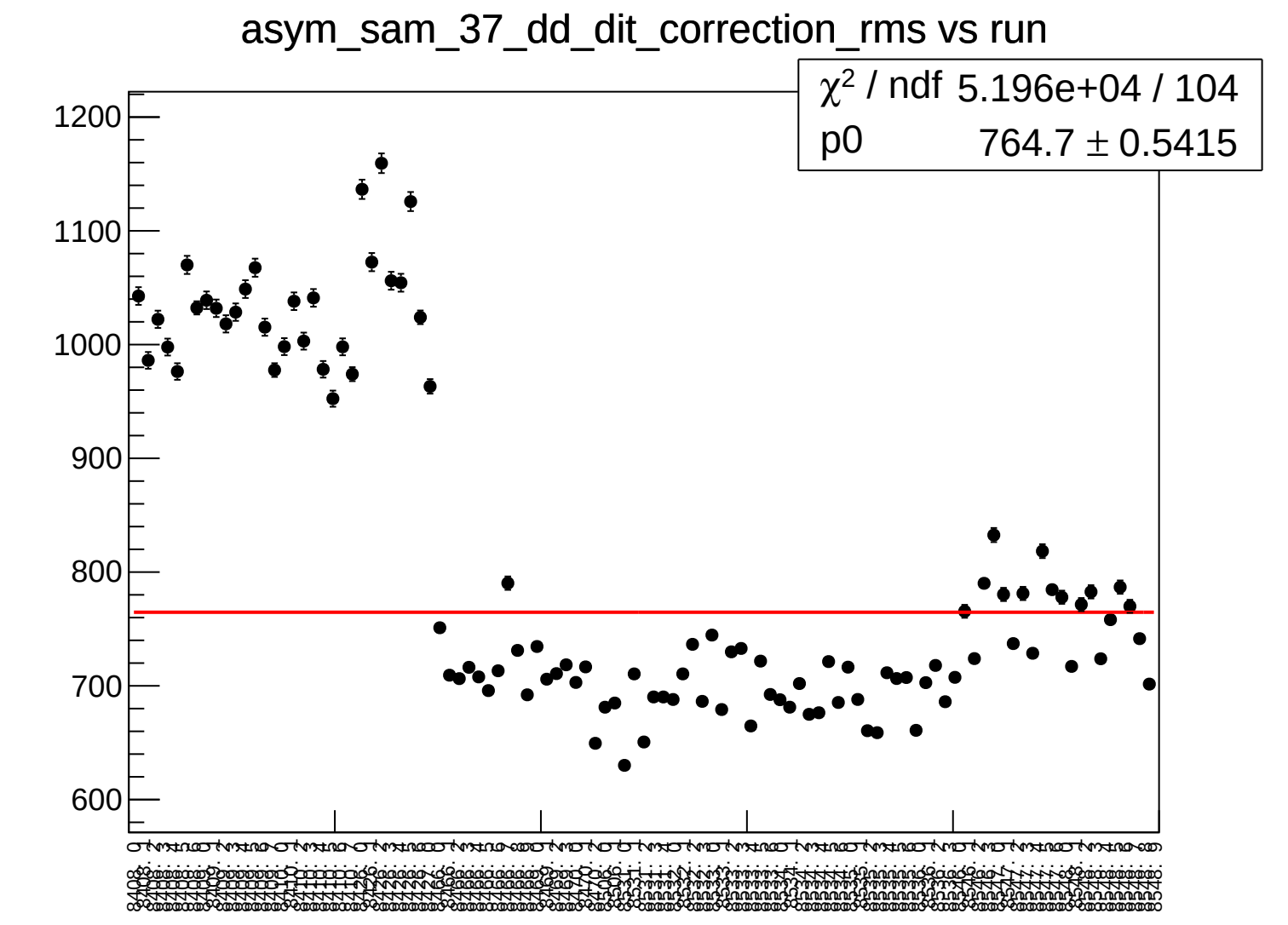

dit_asym_sam_37_dd_mean vs run
χ^2 / ndf 77.19 / 104
p0 25.75 ± 100.8
4000
2000
0
−2000
−4000
pull
Entries 105
Mean 1176
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

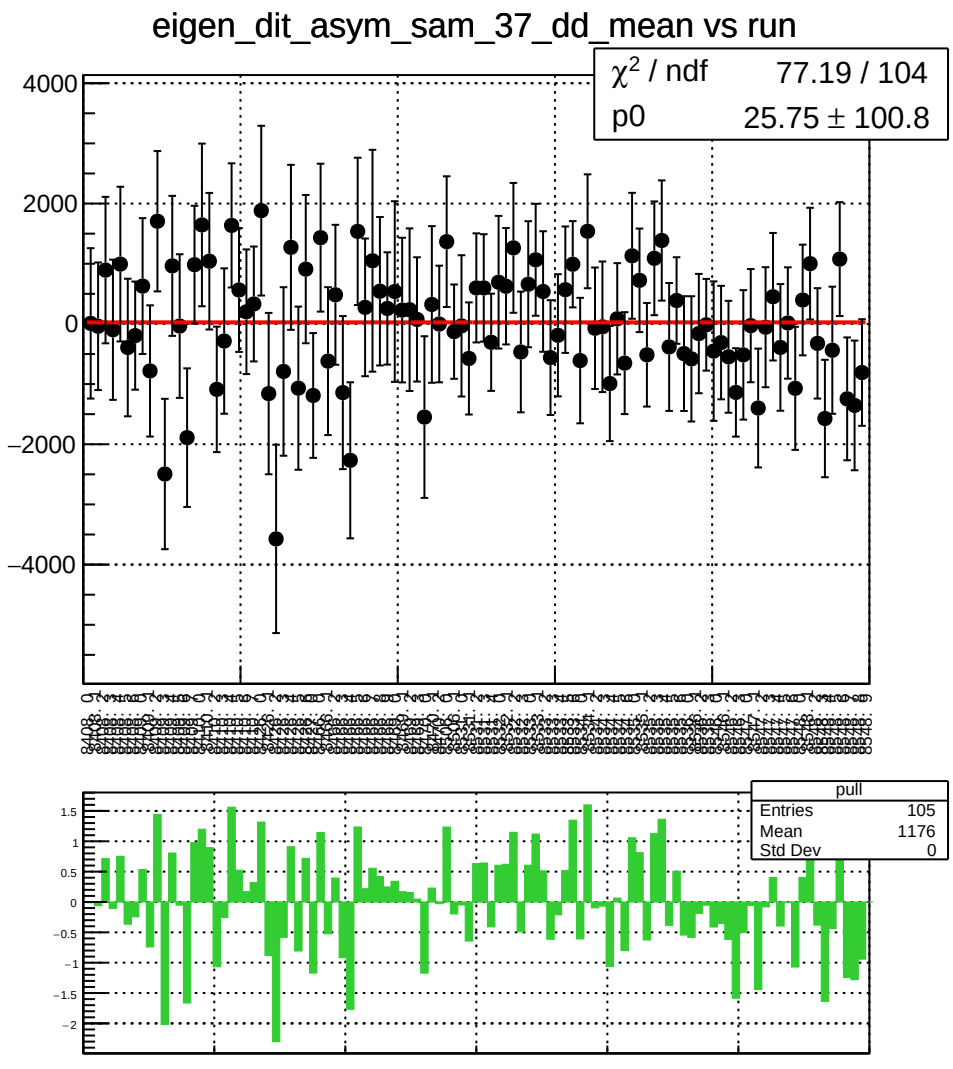

pull1D
Entries 105
Mean −0.003364
Std Dev 0.8574
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

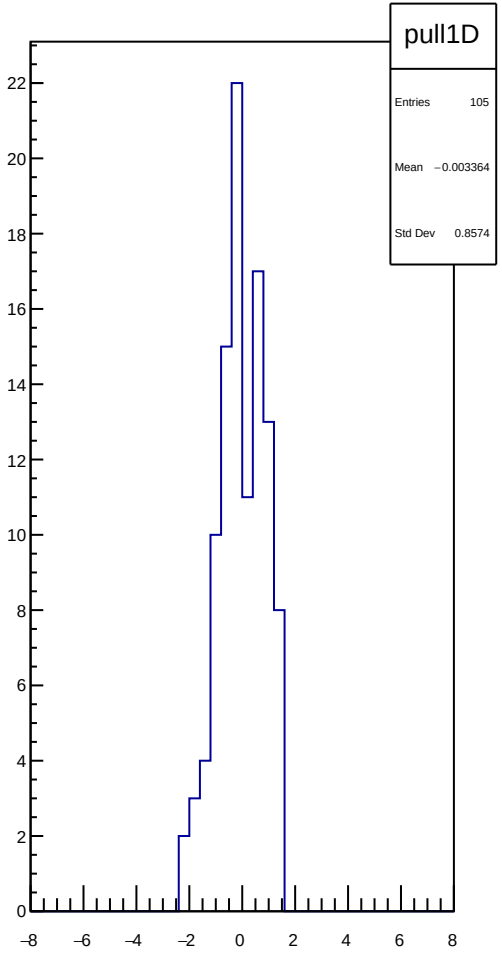

dit_asym_sam_37_dd_rms vs run
χ² / ndf 4.008e+04 / 104
p0 101 ± 0.0713
180
160
140
120
100
80

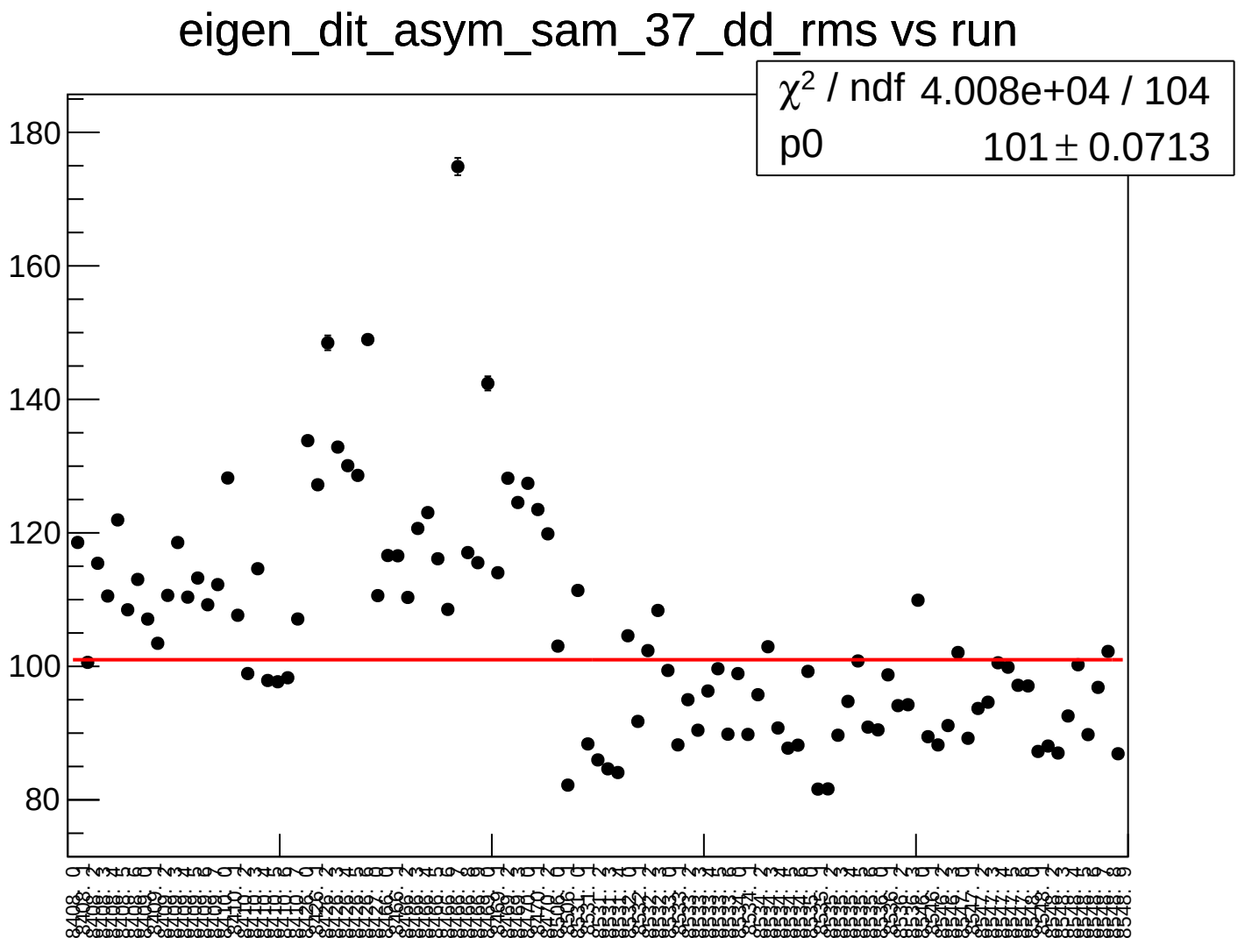

asym_sam_37_dd_dit_correction_mean vs run
χ² / ndf 113.4 / 104
p0 −2962 ± 765.8
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 105
Mean 2402
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

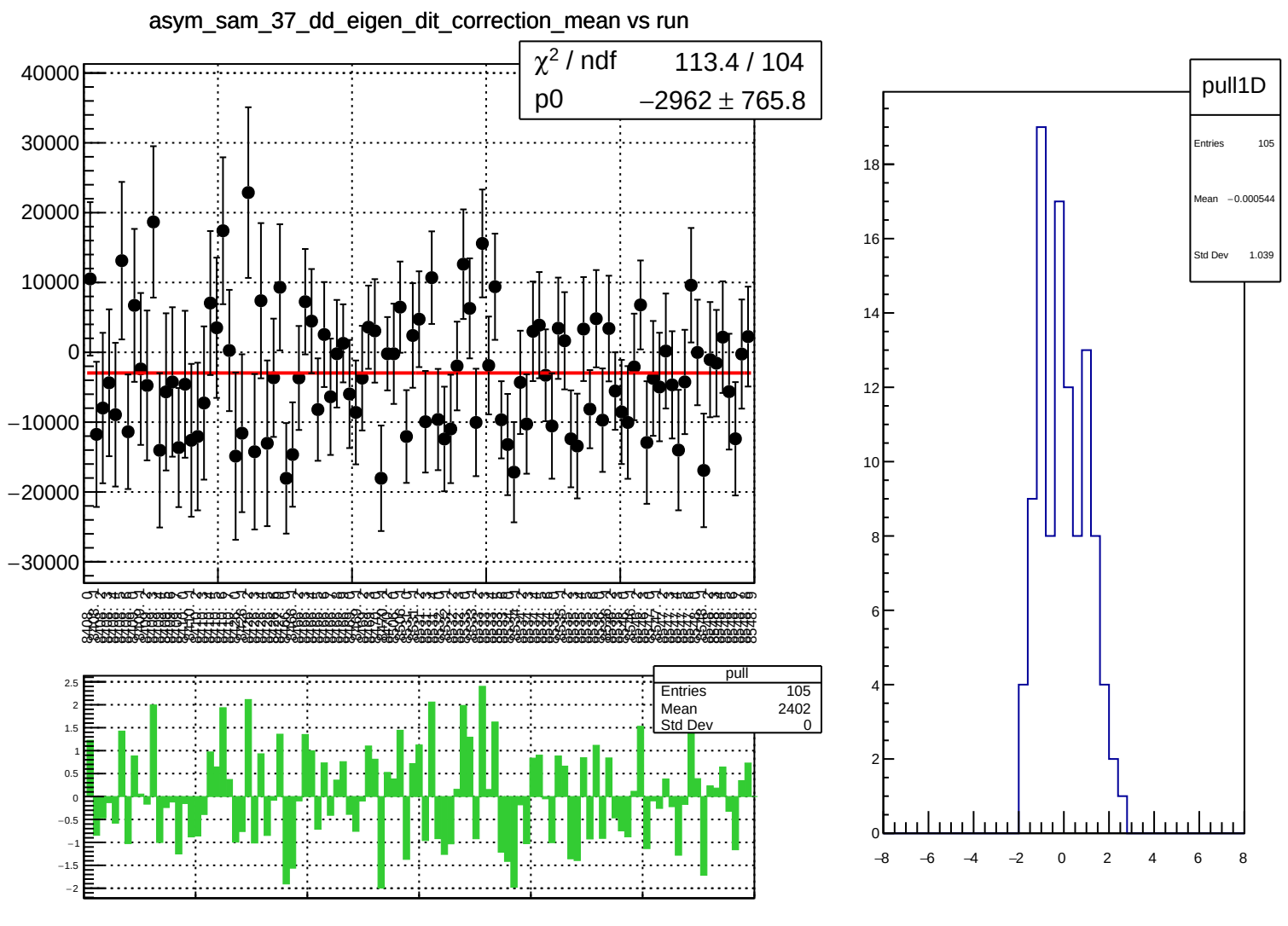

pull1D
Entries 105
Mean −0.000544
Std Dev 1.039
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

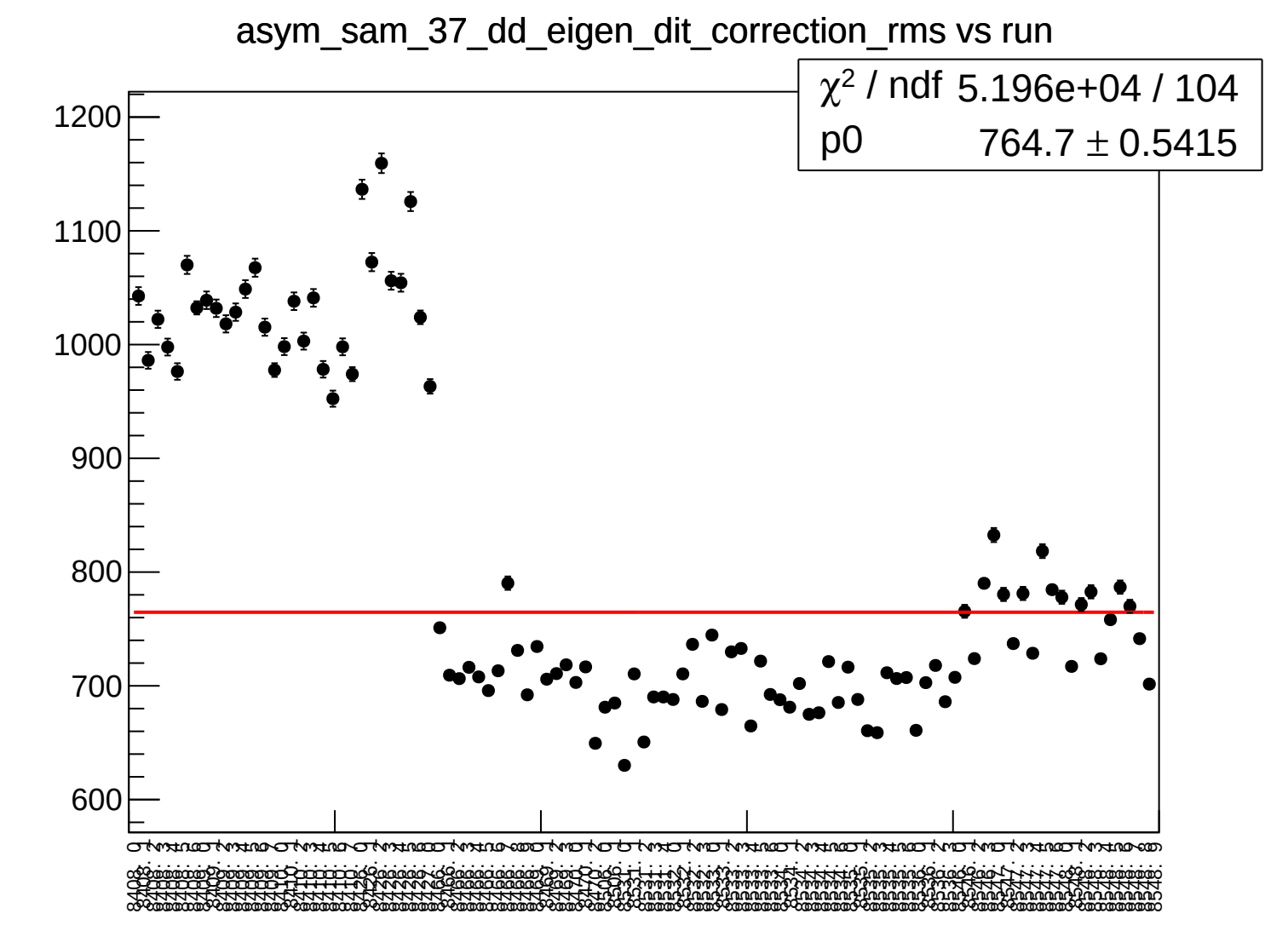

asym_sam_37_dd_dit_correction_rms vs run
χ² / ndf 5.196e+04 / 104
p0 764.7 ± 0.5415
1200
1100
1000
900
800
700
600

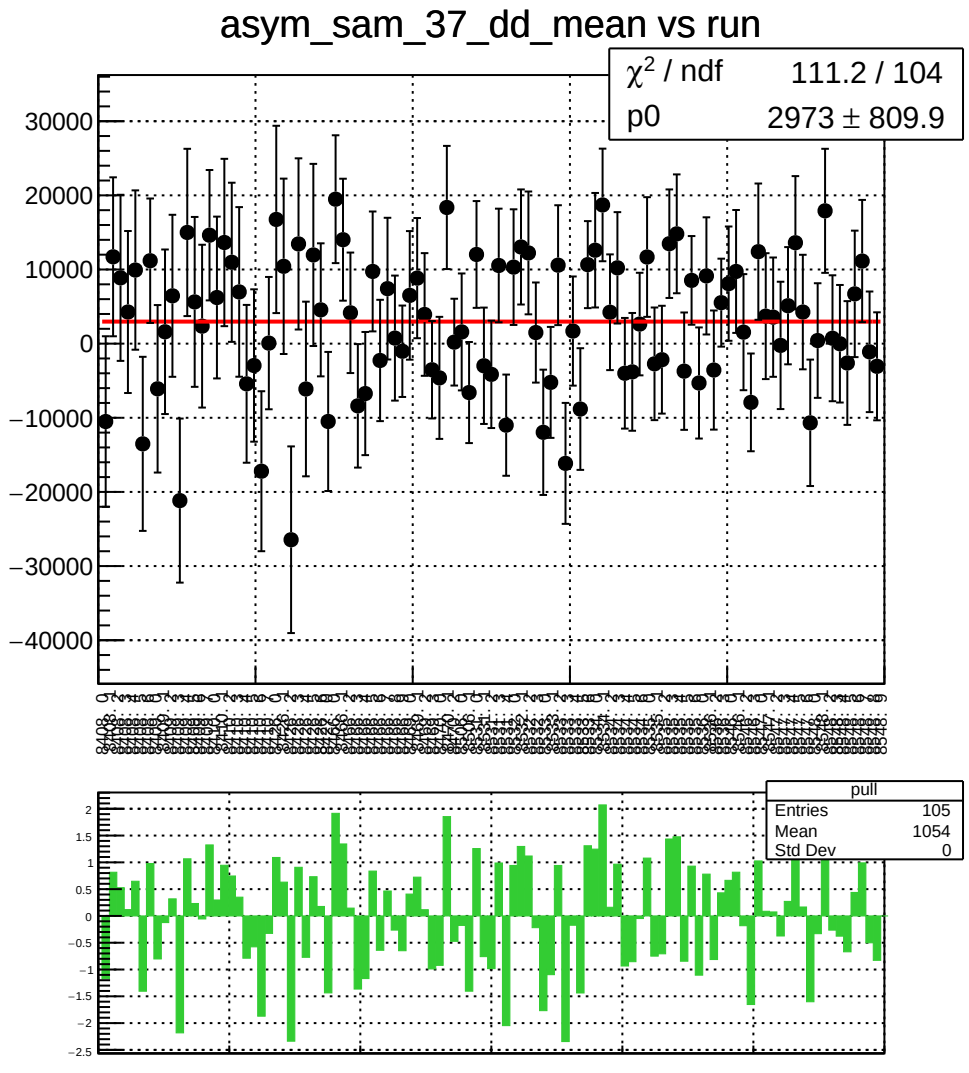

eigen_dit_asym_sam_37_dd_mean vs run
χ² / ndf 77.19 / 104
p0 25.75 ± 100.8
4000
2000
0
−2000
−4000
pull
Entries 105
Mean 1176
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

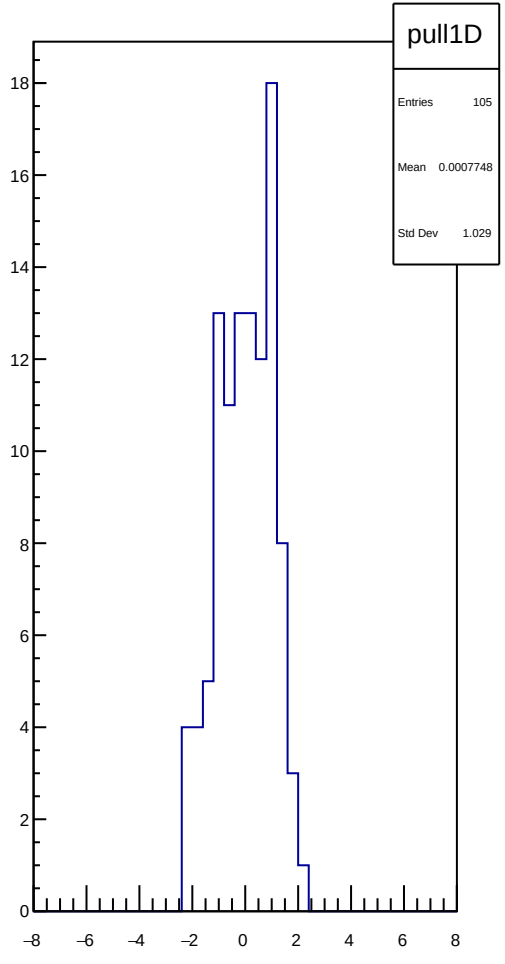

pull1D
Entries 105
Mean −0.003364
Std Dev 0.8574
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

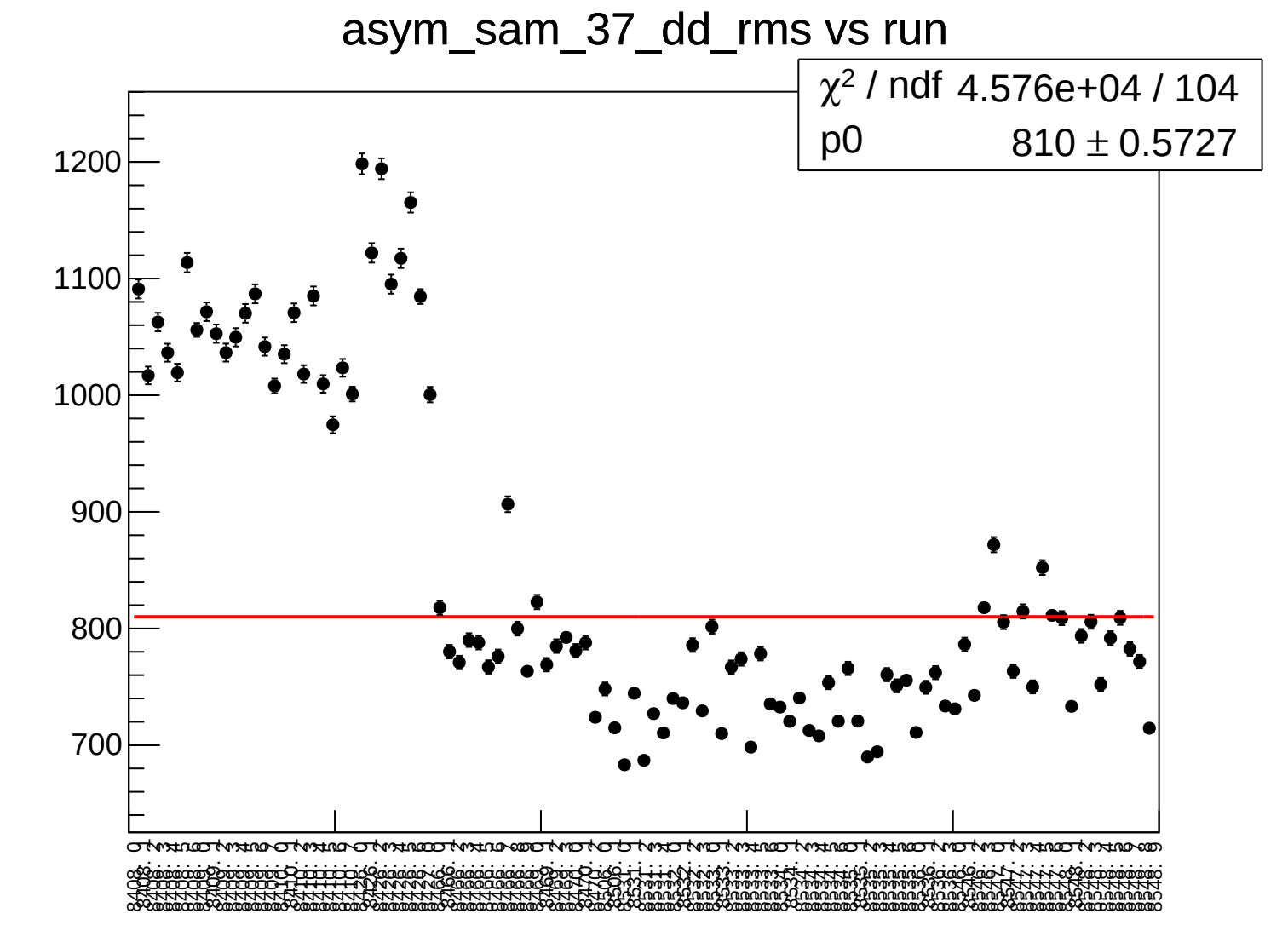

eigen_dit_asym_sam_37_dd_rms vs run
χ² / ndf 4.008e+04 / 104
p0 101 ± 0.0713
180
160
140
120
100
80

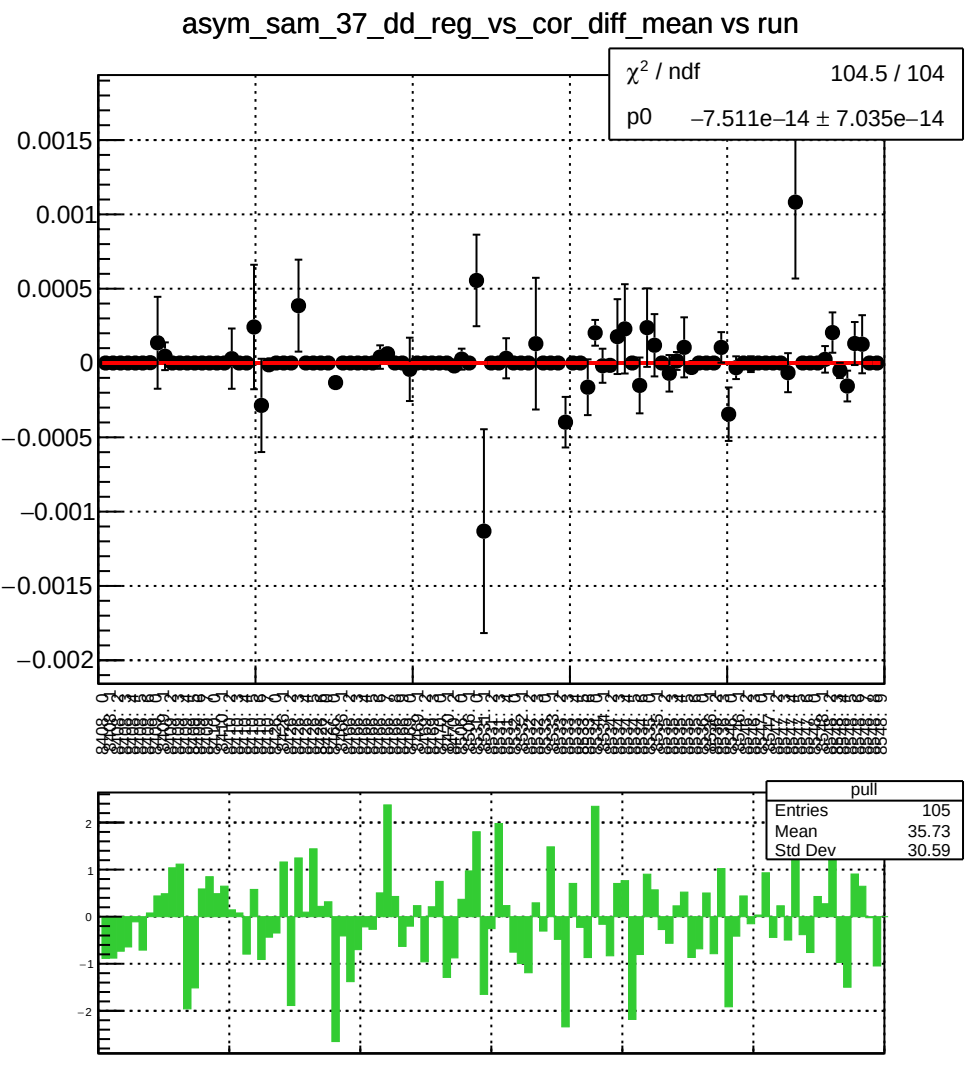

asym_sam_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 113.4 / 104
p0 −2962 ± 765.8
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 105
Mean 2402
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 105
Mean −0.000544
Std Dev 1.039
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

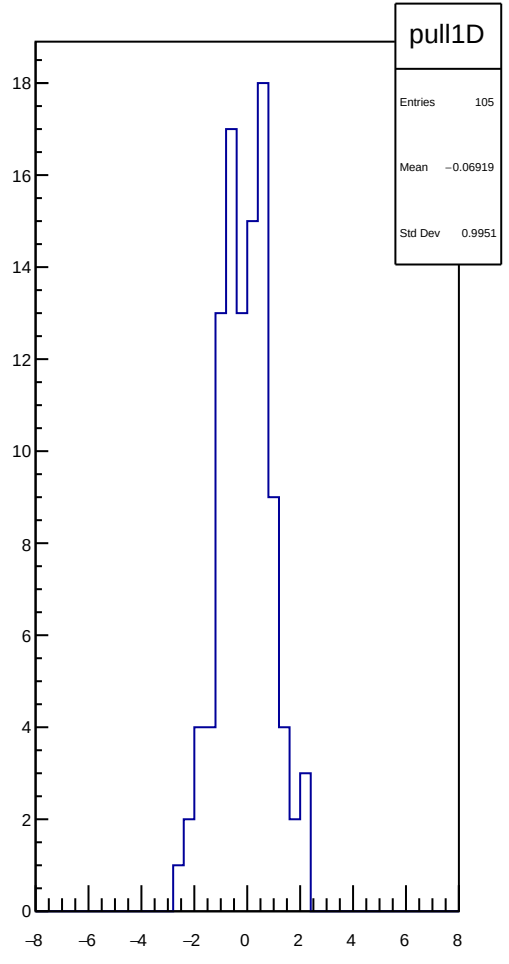

asym_sam_37_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 5.196e+04 / 104
p0 764.7 ± 0.5415
1200
1100
1000
900
800
700
600

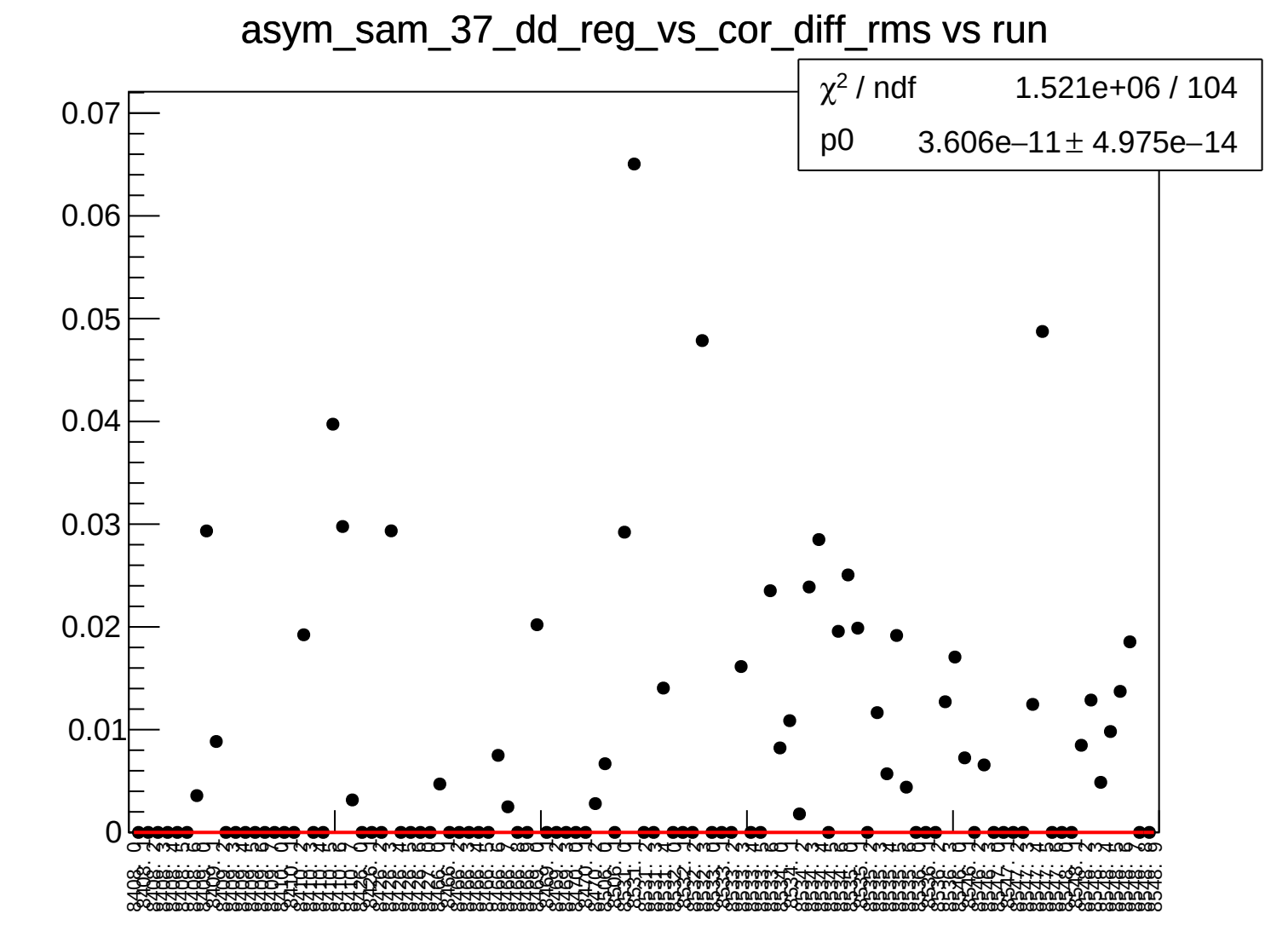

asym_sam_37_dd_mean vs run
χ² / ndf 111.2 / 104
p0 2973 ± 809.9
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 105
Mean 1054
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

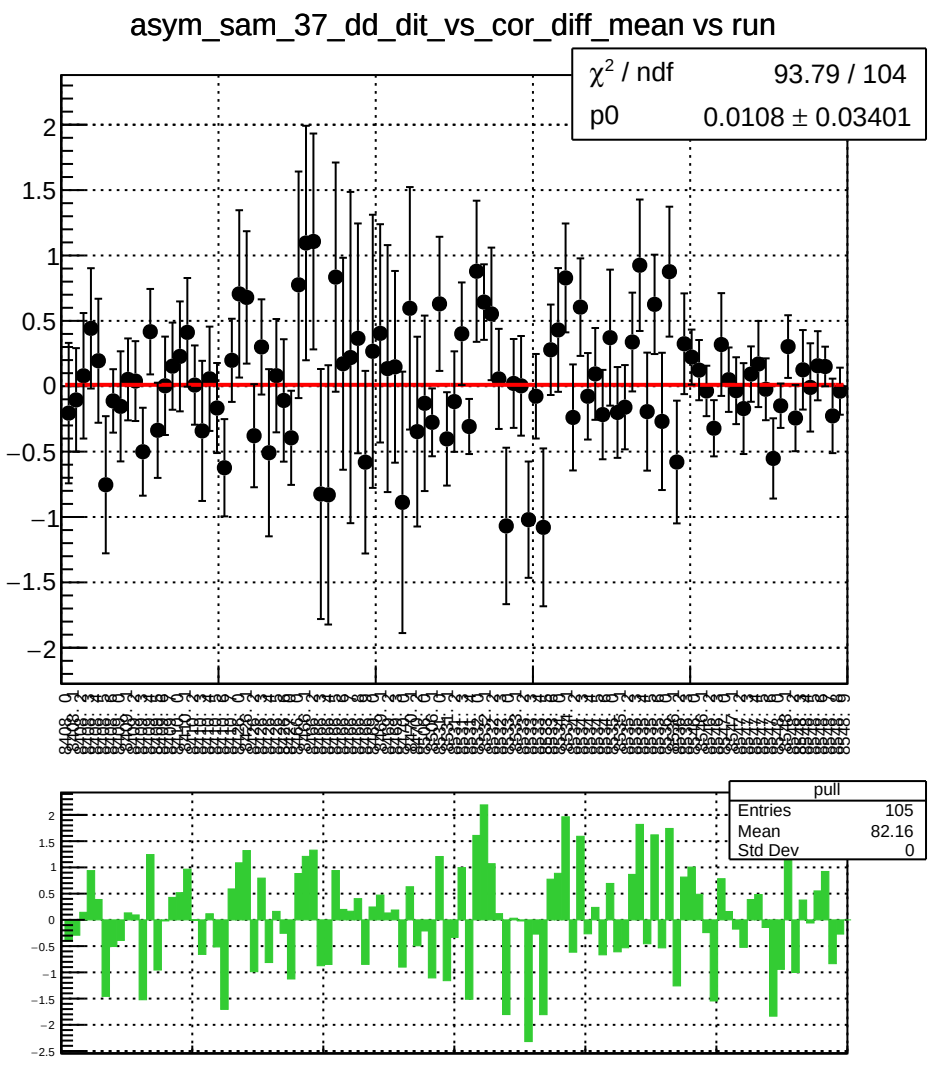

pull1D
Entries 105
Mean 0.0007748
Std Dev 1.029
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

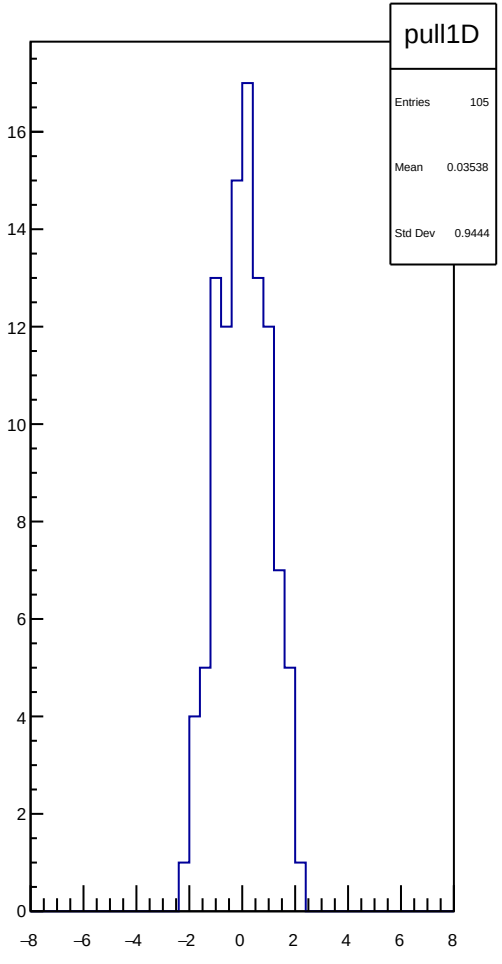

asym_sam_37_dd_rms vs run
χ² / ndf 4.576e+04 / 104
p0 810 ± 0.5727
1200
1100
1000
900
800
700

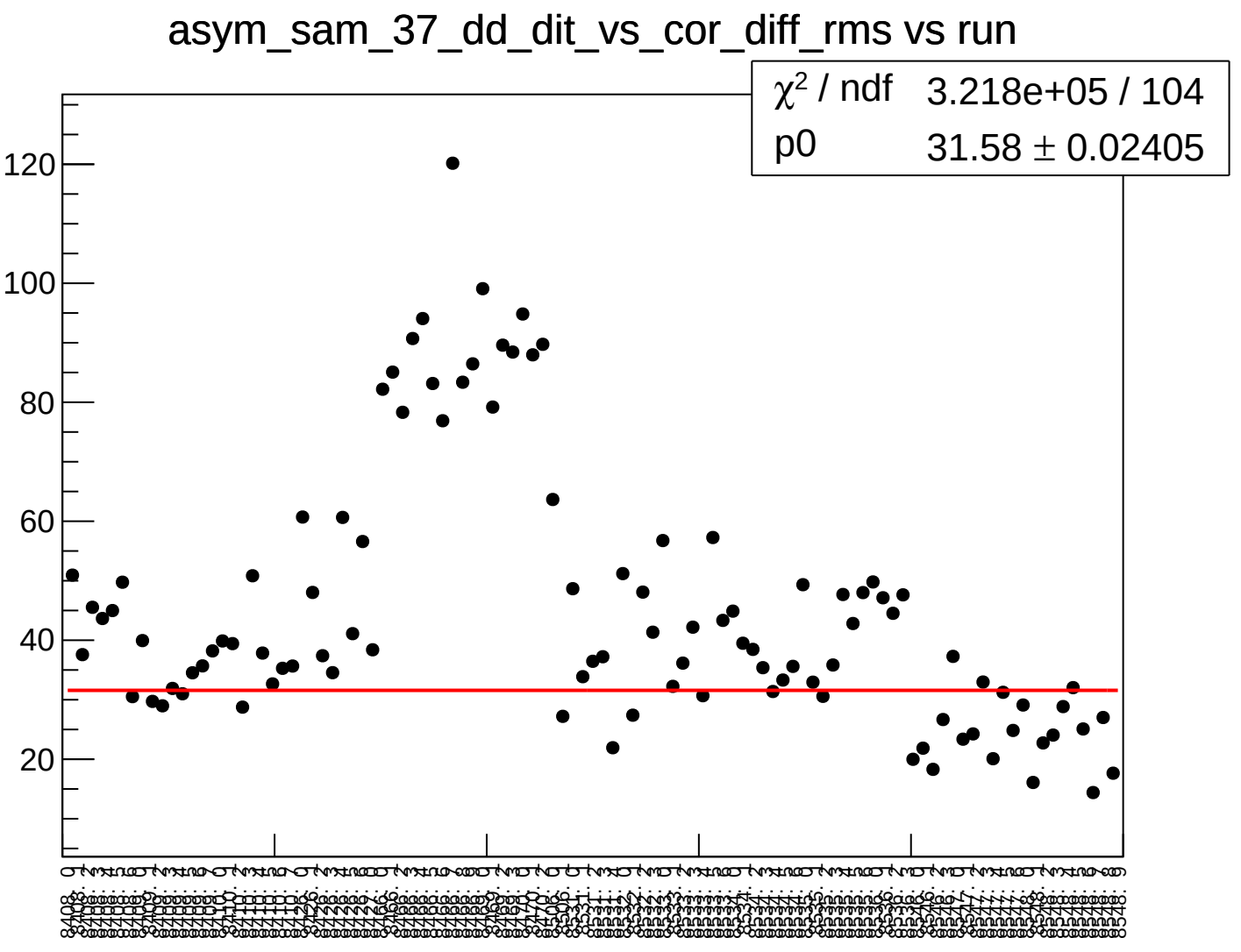

asym_sam_37_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 104.5 / 104
p0 −7.511e−14 ± 7.035e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 105
Mean 35.73
Std Dev 30.59
2
1
0
−1
−2

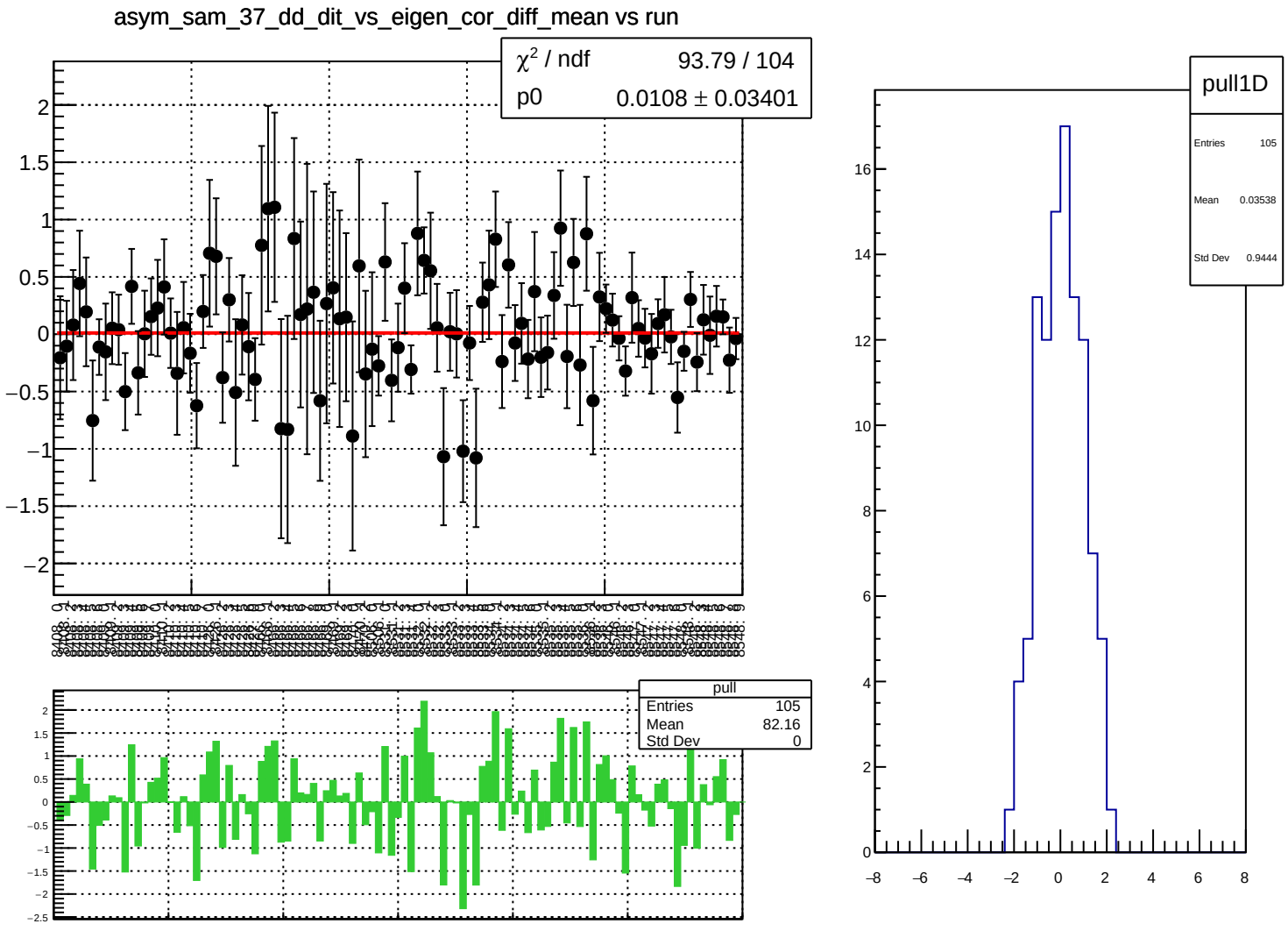

pull1D
Entries 105
Mean −0.06919
Std Dev 0.9951
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

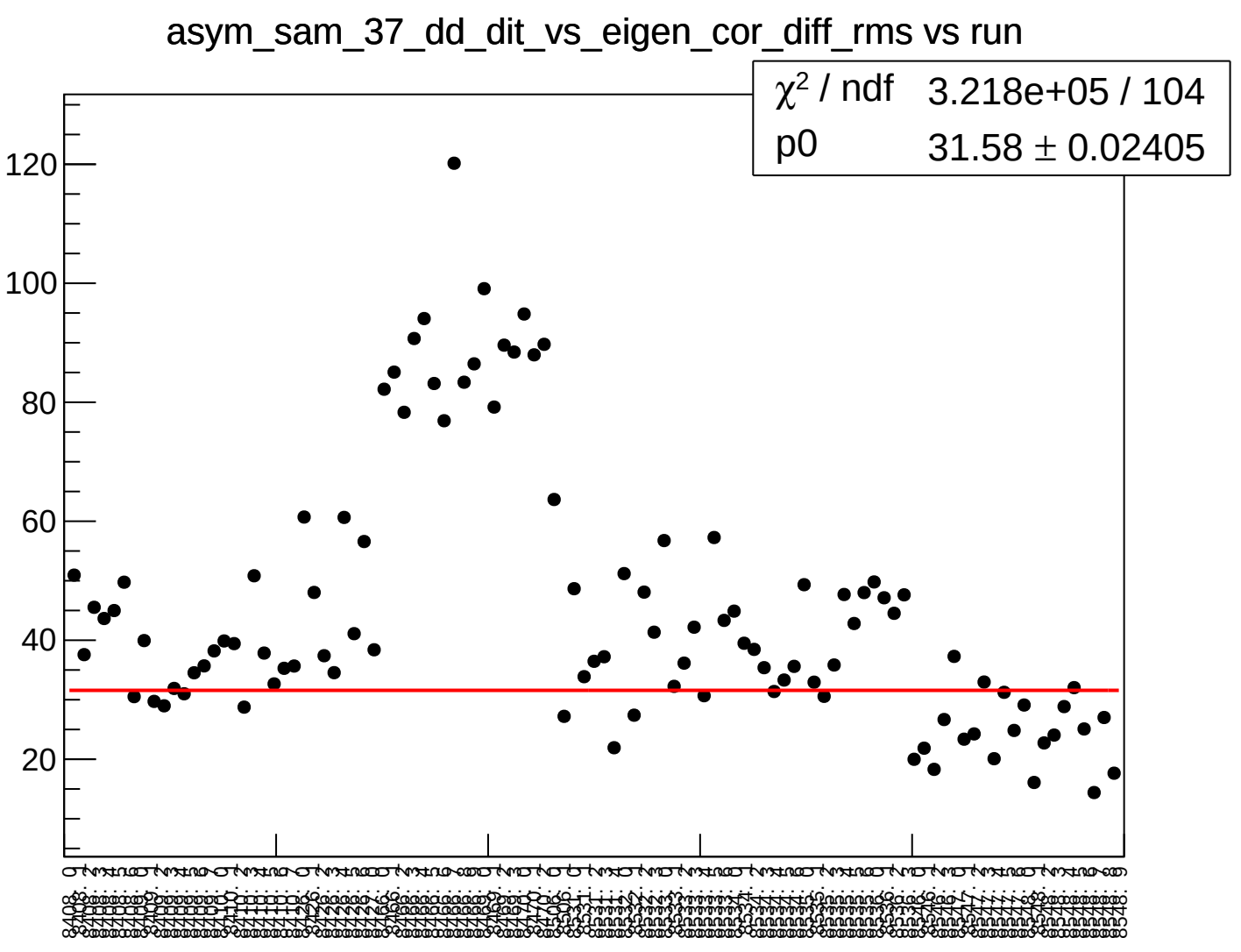

asym_sam_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.521e+06 / 104
p0 3.606e−11 ± 4.975e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

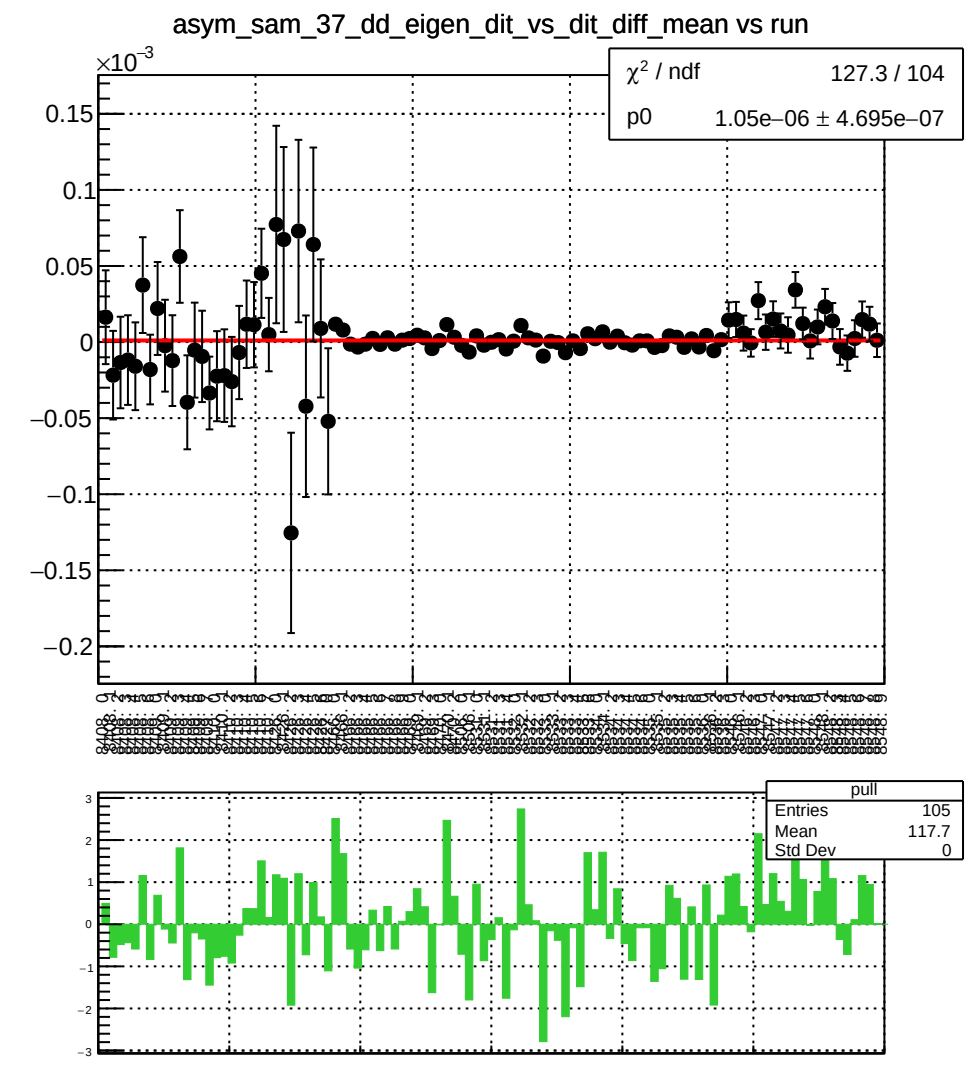

asym_sam_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 93.79 / 104
p0 0.0108 ± 0.03401
pull
Entries 105
Mean 82.16
Std Dev 0

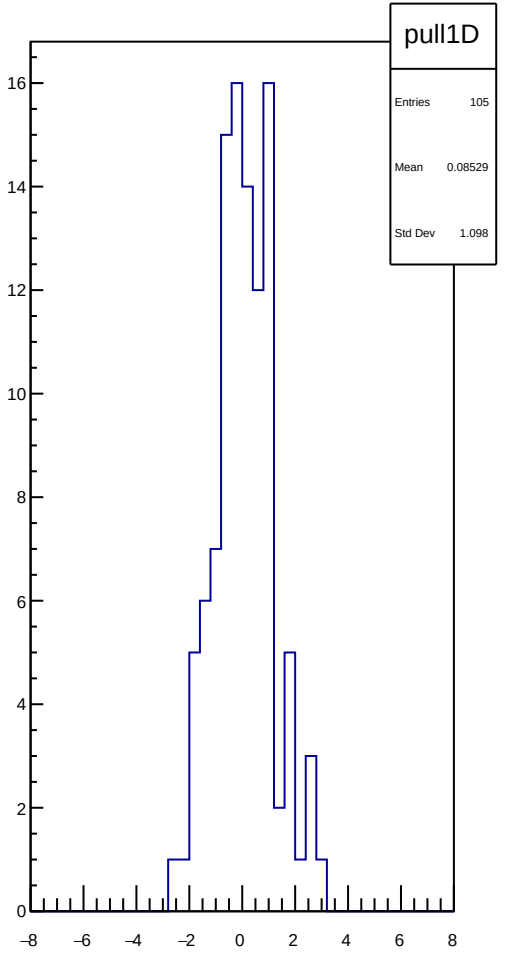

pull1D
Entries 105
Mean 0.03538
Std Dev 0.9444

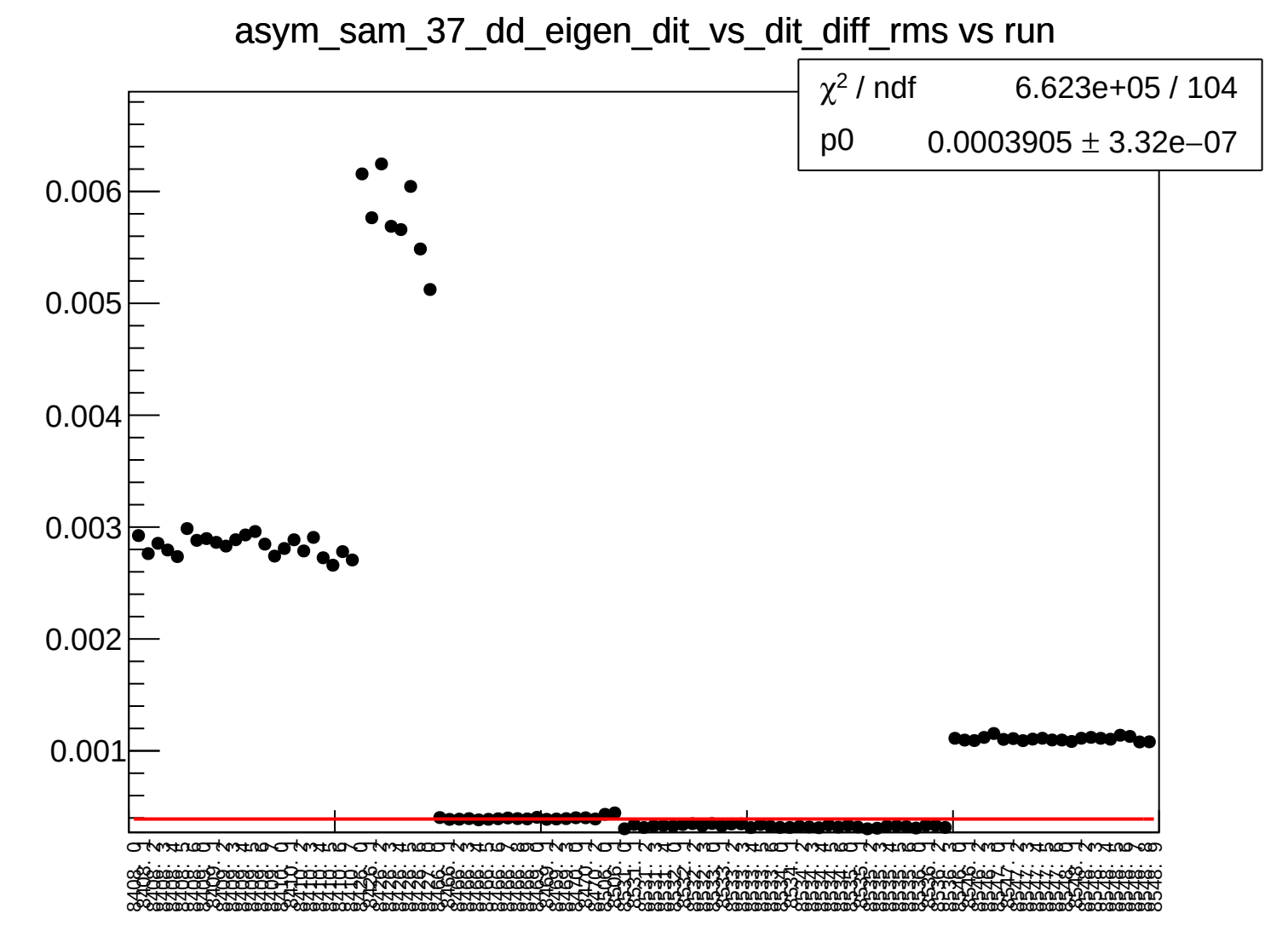

asym_sam_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 3.218e+05 / 104
p0 31.58 ± 0.02405
120
100
80
60
40
20

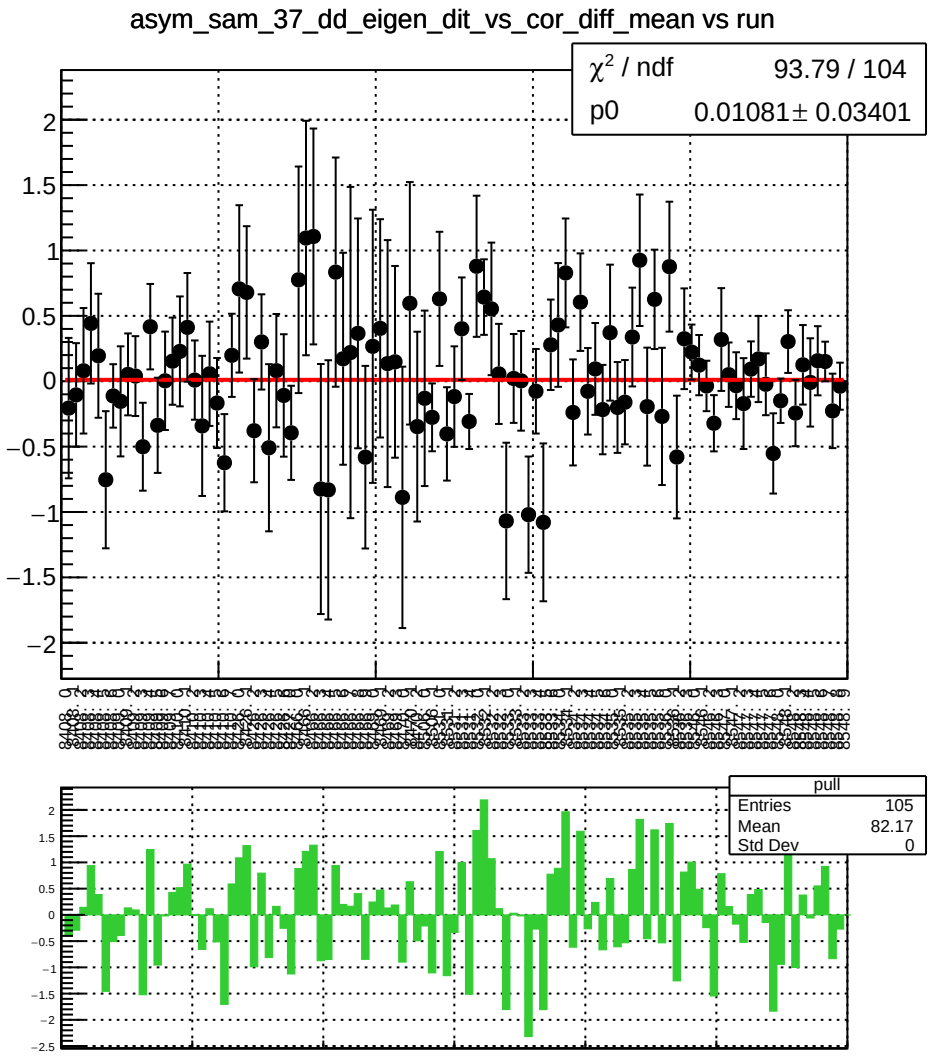

asym_sam_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.79 / 104
p0 0.0108 ± 0.03401
pull
Entries 105
Mean 82.16
Std Dev 0
pull1D
Entries 105
Mean 0.03538
Std Dev 0.9444

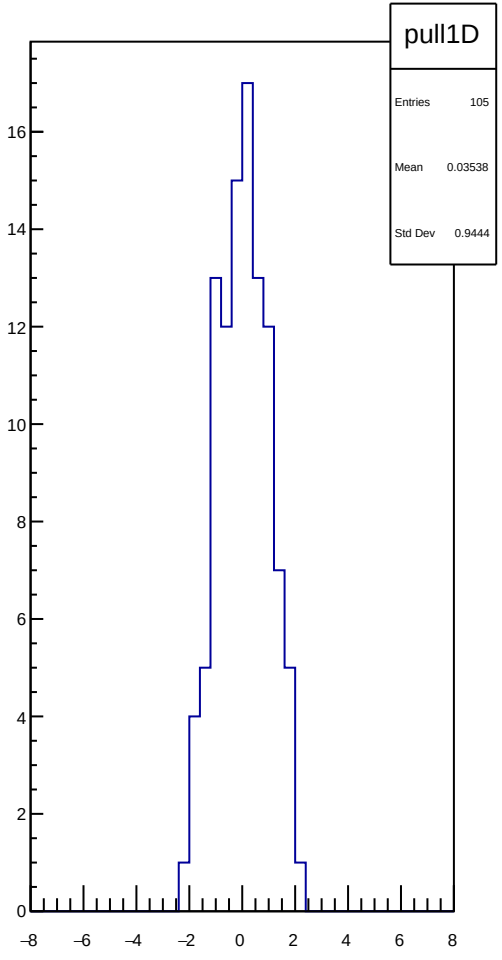

asym_sam_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 3.218e+05 / 104
p0 31.58 ± 0.02405
120
100
80
60
40
20

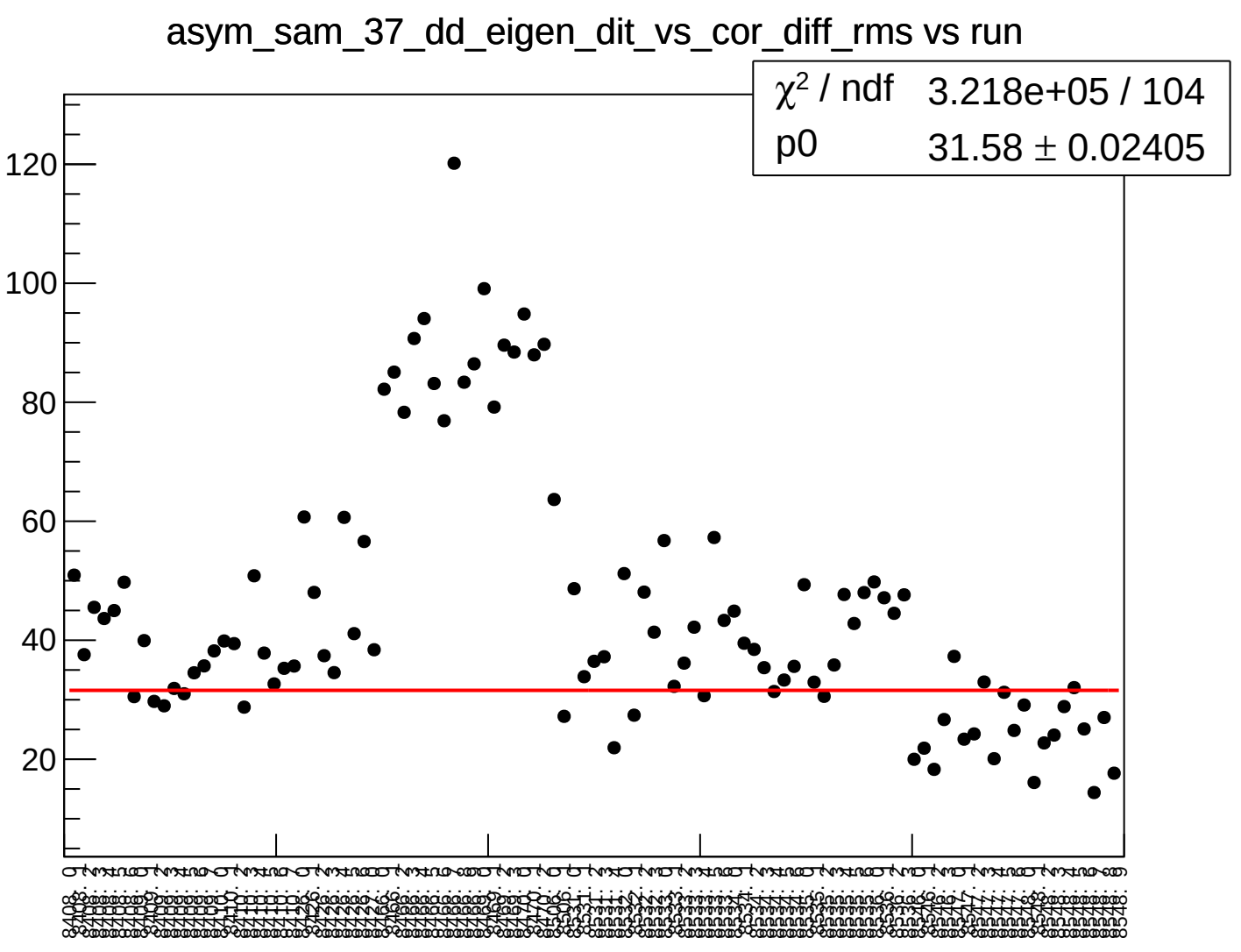

asym_sam_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 127.3 / 104
p0 1.05e−06 ± 4.695e−07
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
pull
Entries 105
Mean 117.7
Std Dev 0
3
2
1
0
−1
−2
−3

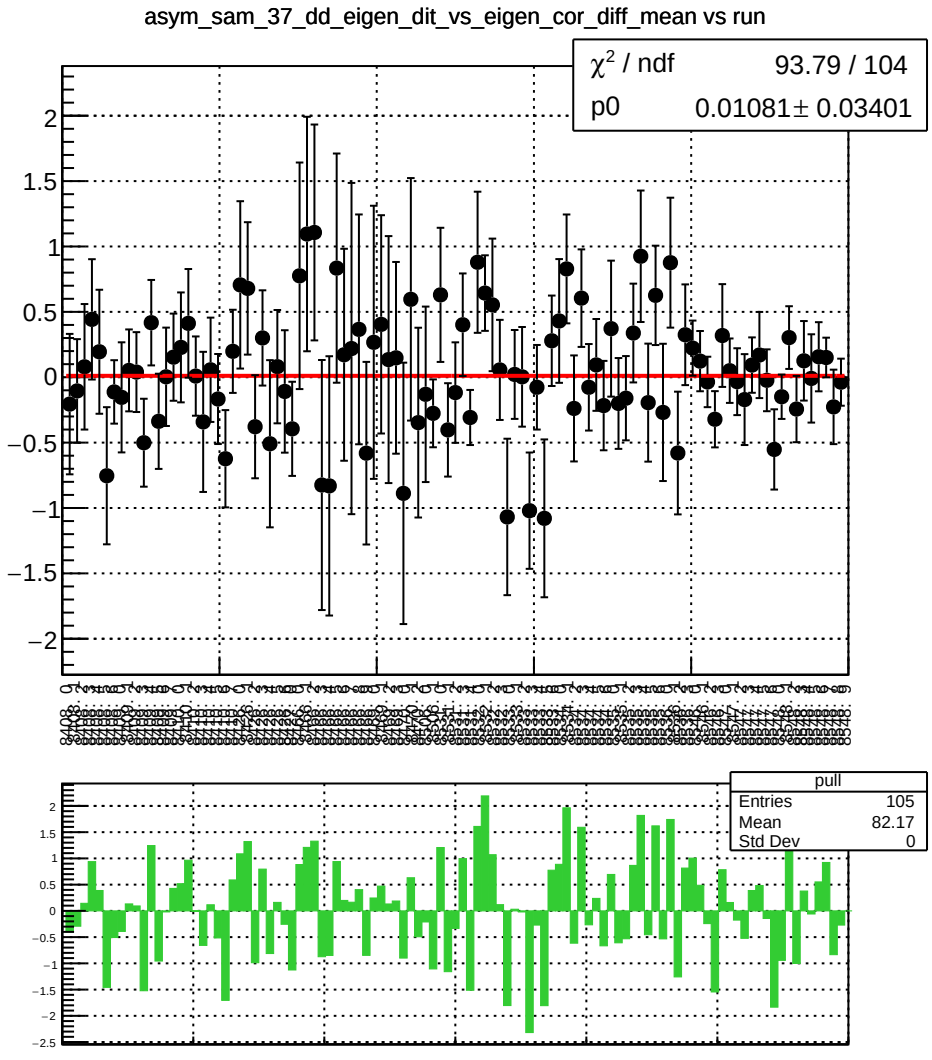

pull1D
Entries 105
Mean 0.08529
Std Dev 1.098
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

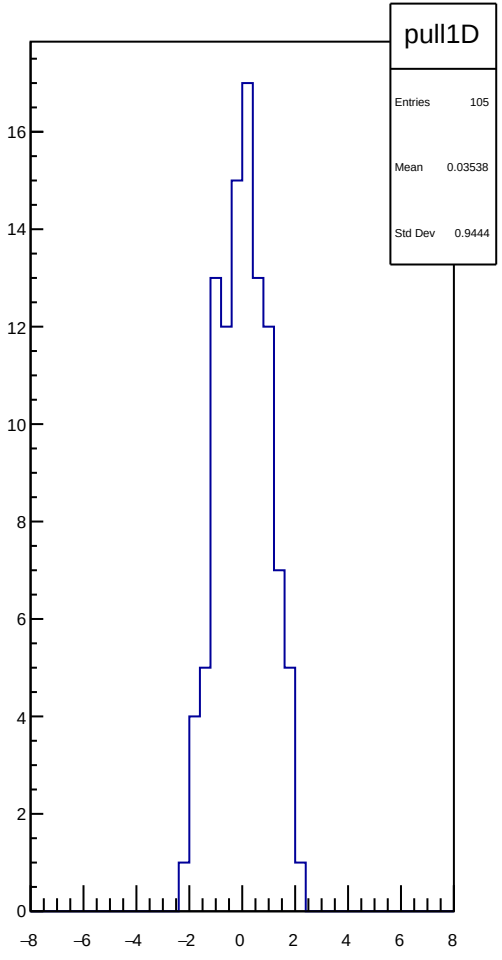

asym_sam_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 6.623e+05 / 104
p0 0.0003905 ± 3.32e−07
0.006
0.005
0.004
0.003
0.002
0.001

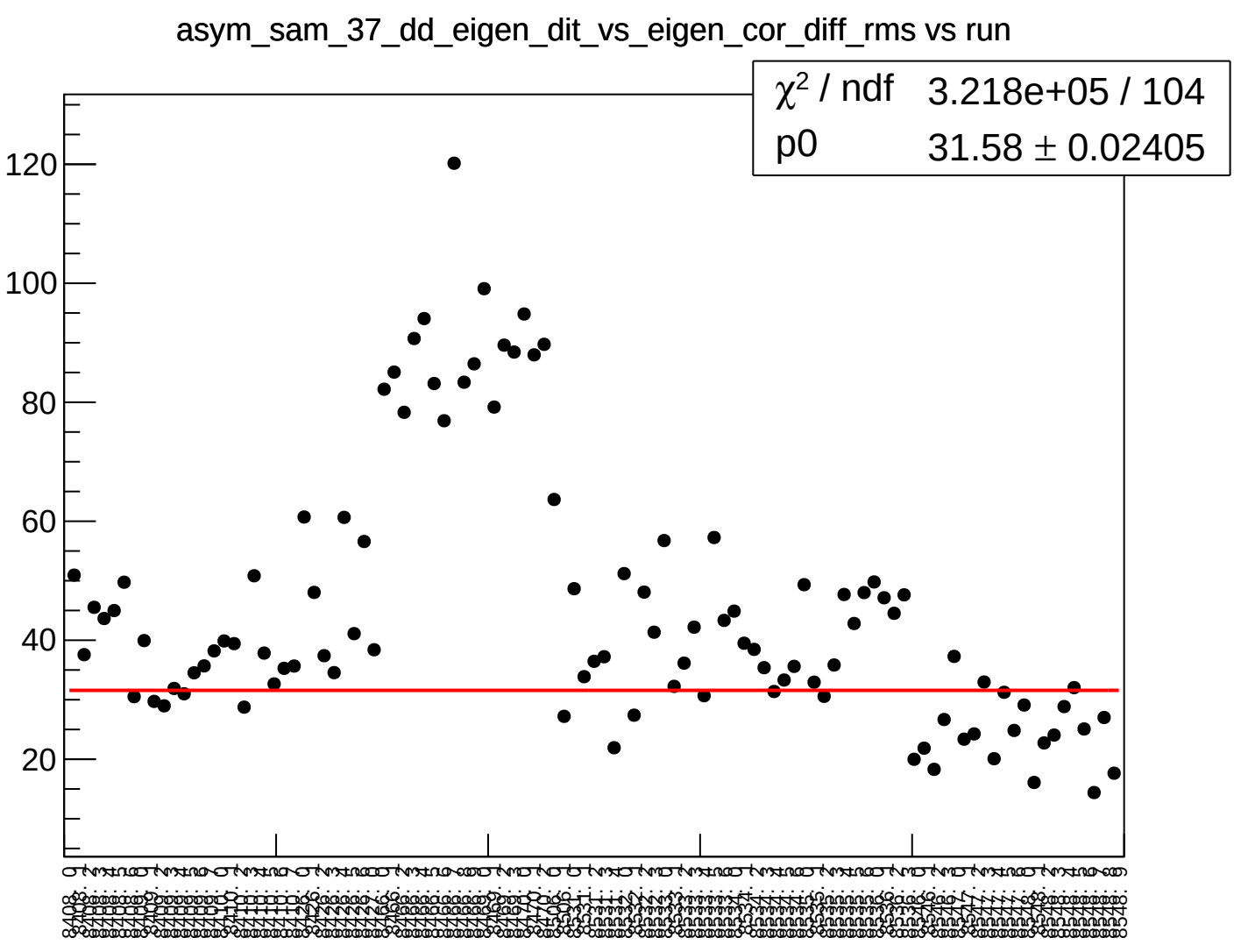

asym_sam_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 93.79 / 104
p0 0.01081 ± 0.03401
pull
Entries 105
Mean 82.17
Std Dev 0

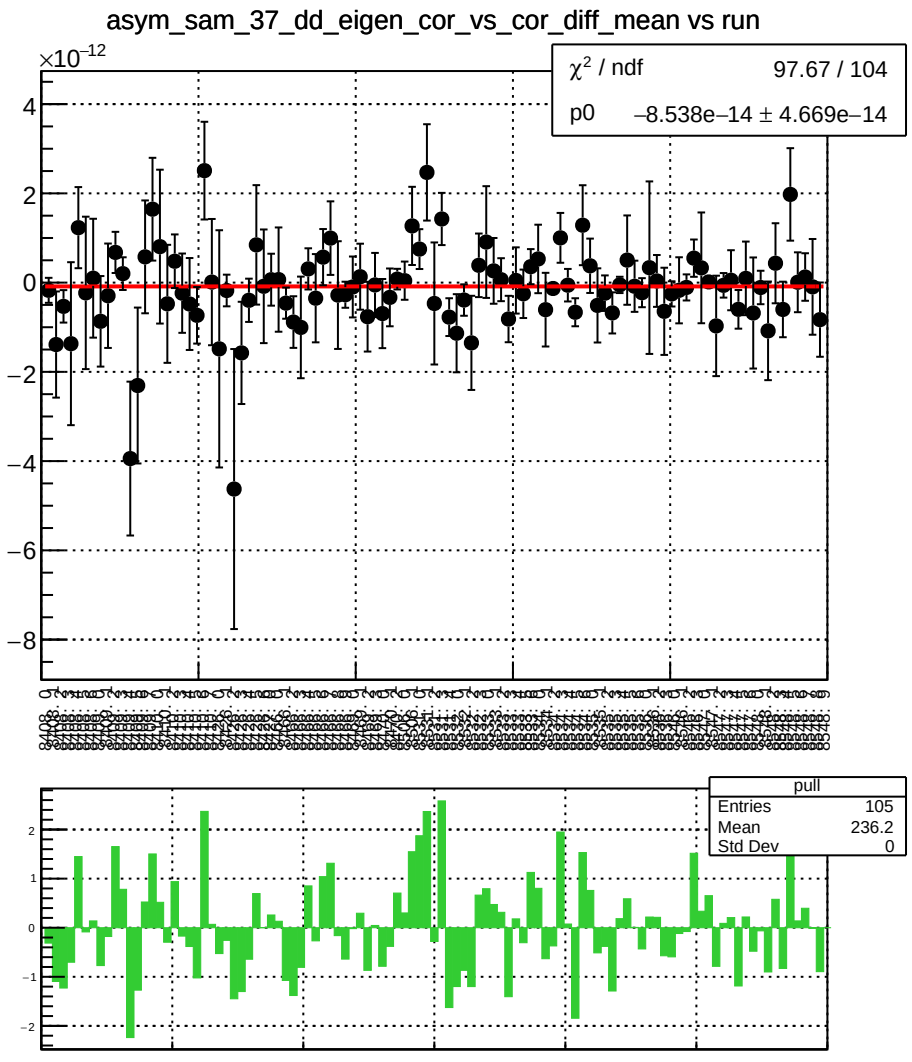

pull1D
Entries 105
Mean 0.03538
Std Dev 0.9444

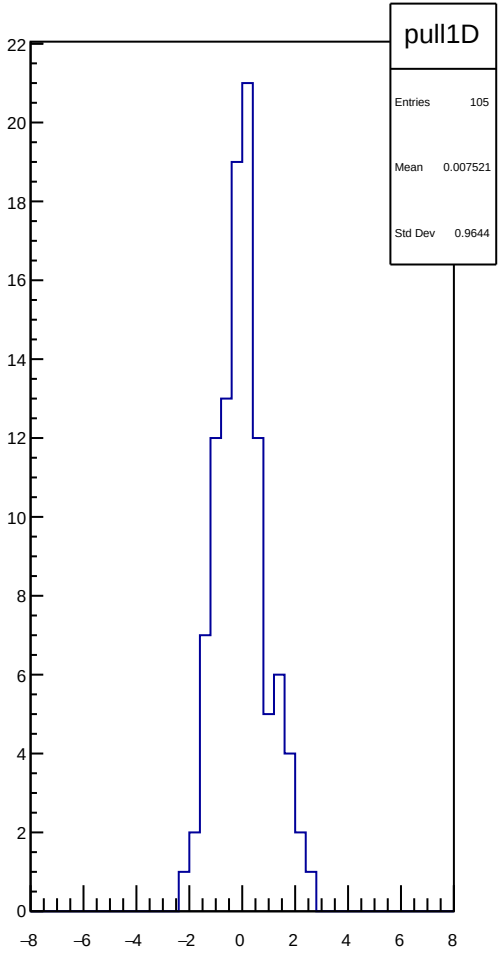

asym_sam_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 3.218e+05 / 104
p0 31.58 ± 0.02405
120
100
80
60
40
20

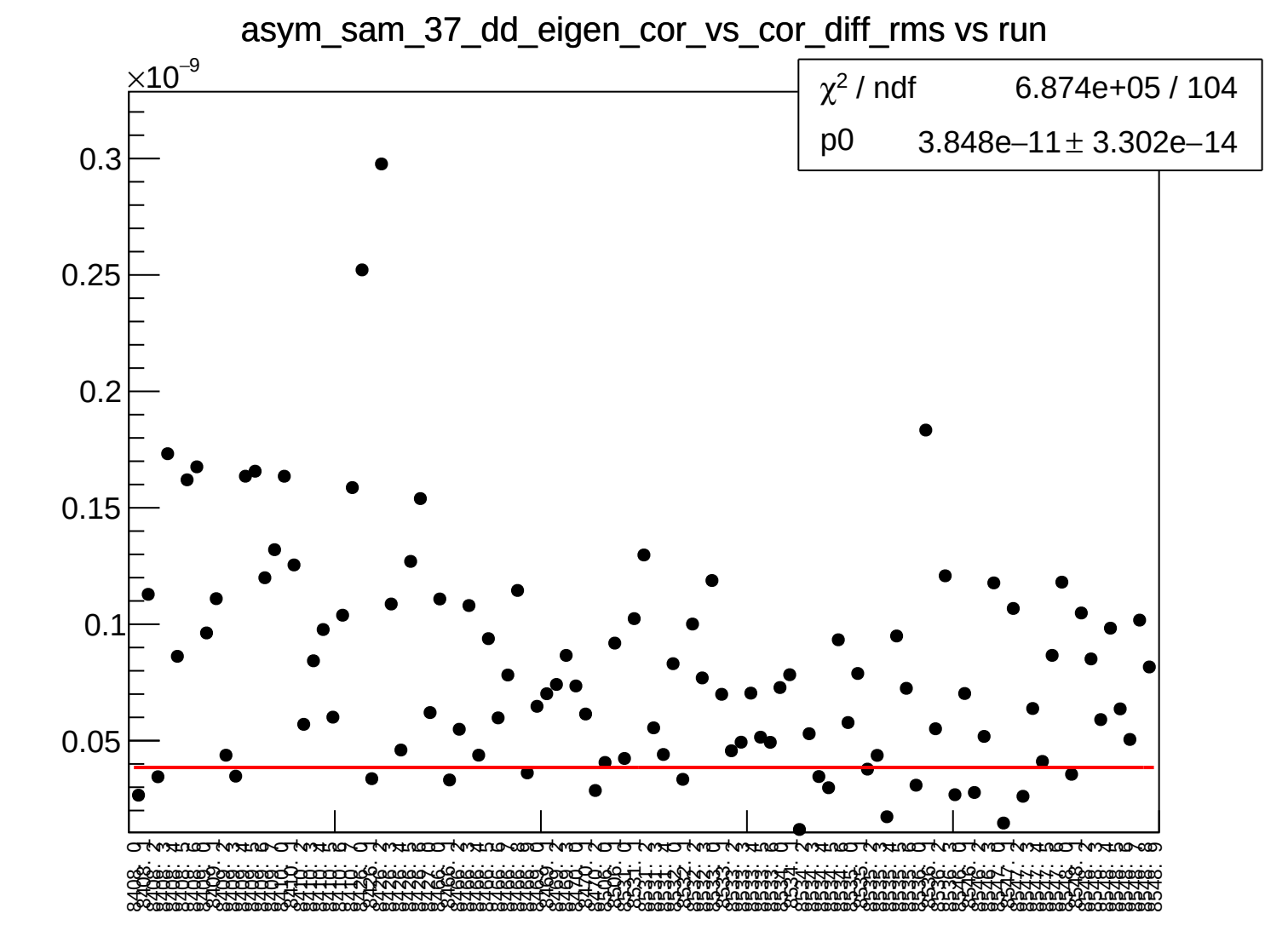

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 93.79 / 104
p0 0.01081 ± 0.03401
pull
Entries 105
Mean 82.17
Std Dev 0

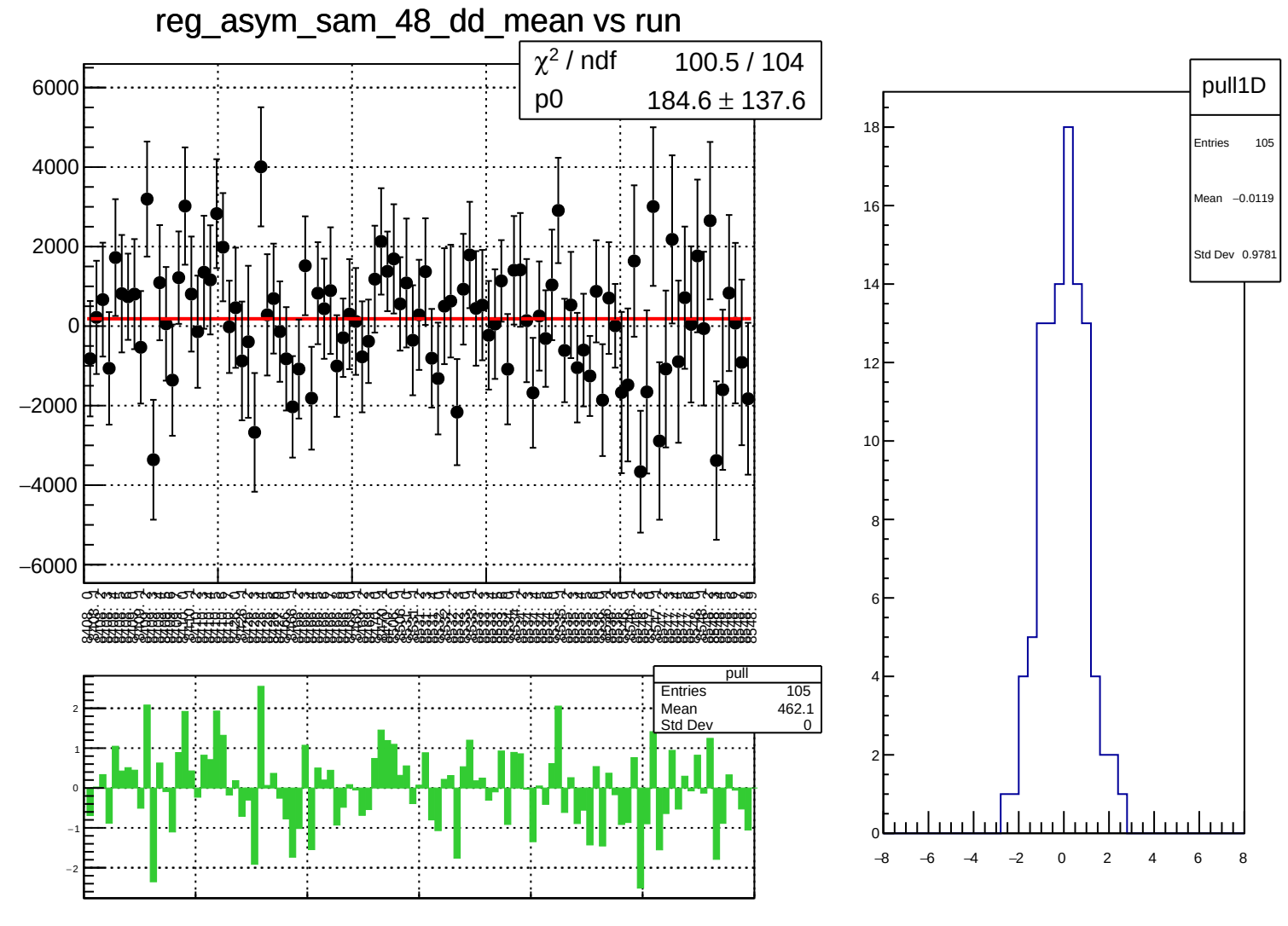

pull1D
Entries 105
Mean 0.03538
Std Dev 0.9444

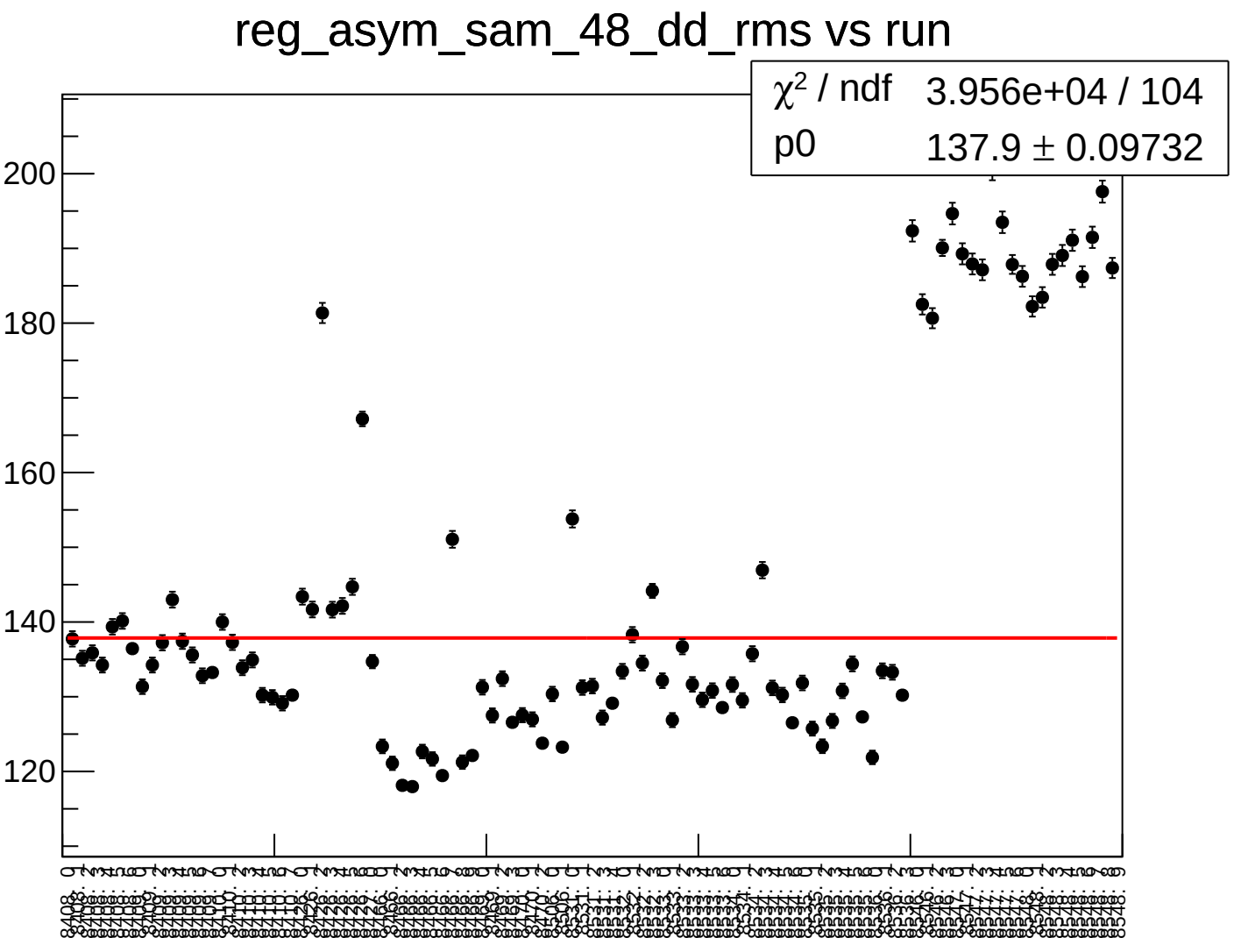

asym_sam_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 3.218e+05 / 104
p0 31.58 ± 0.02405
120
100
80
60
40
20

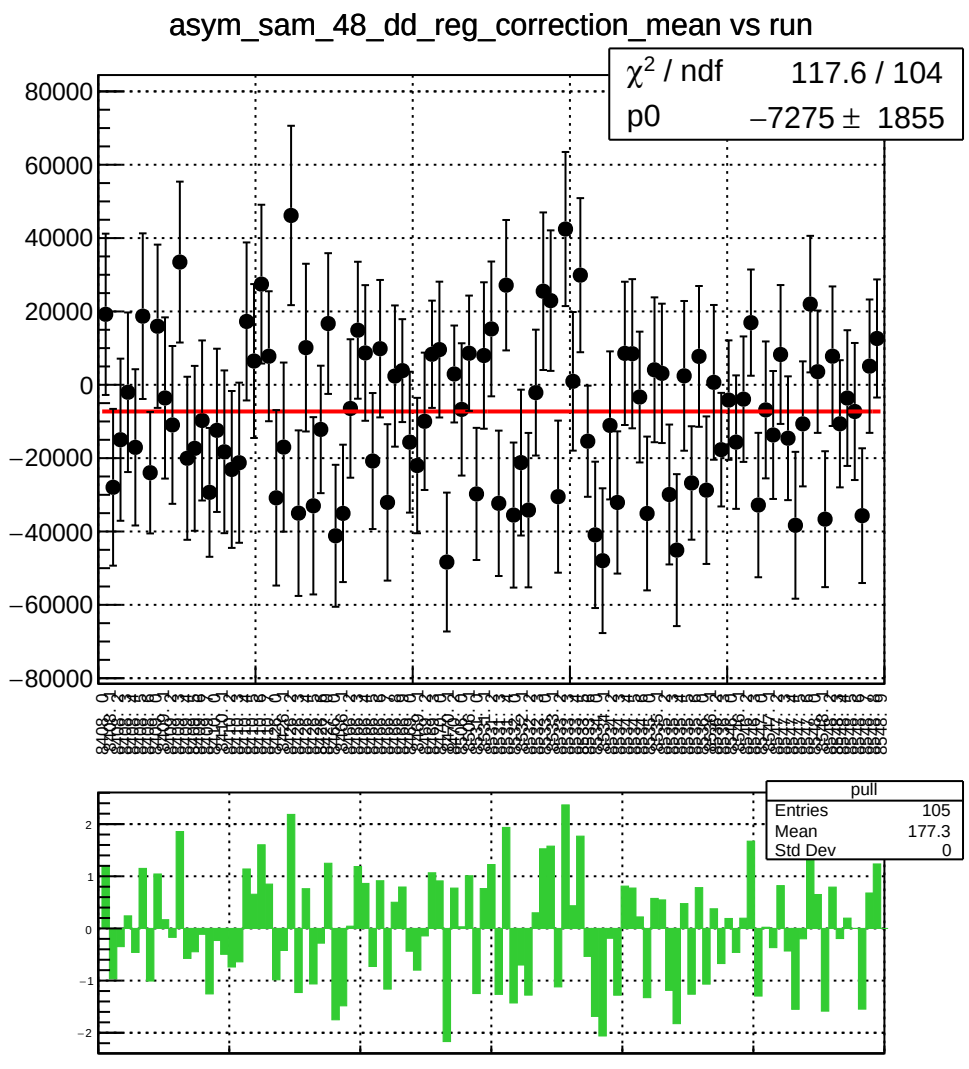

asym_sam_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 97.67 / 104
p0 −8.538e−14 ± 4.669e−14
pull
Entries 105
Mean 236.2
Std Dev 0

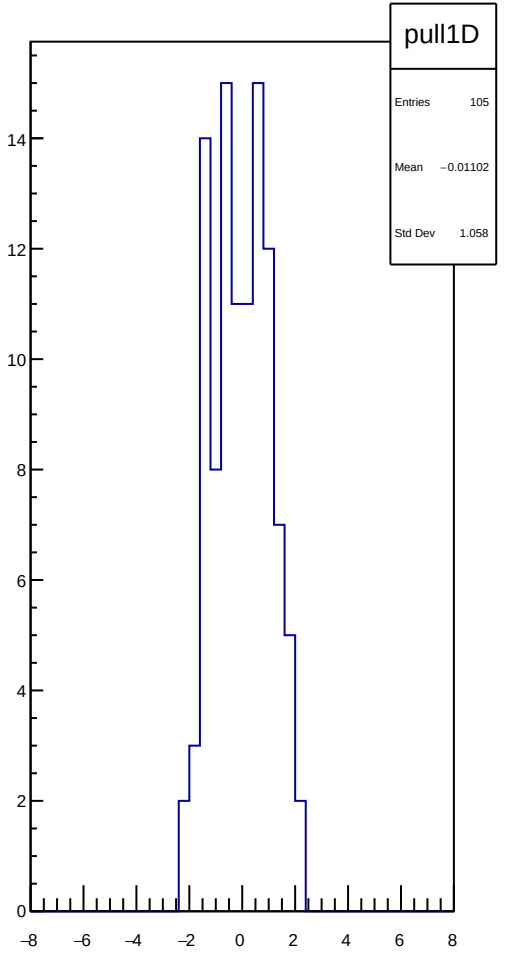

pull1D
Entries 105
Mean 0.007521
Std Dev 0.9644

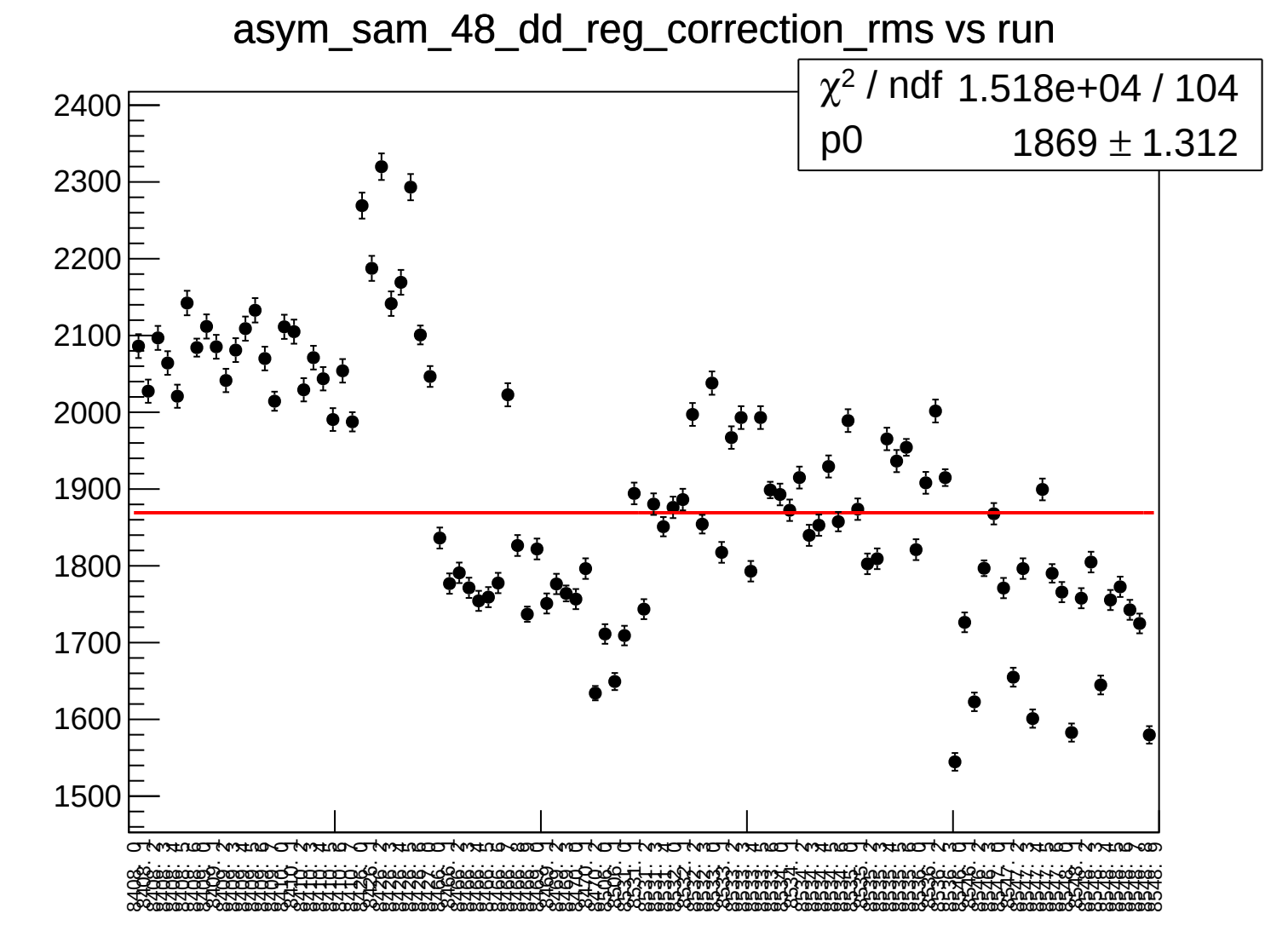

asym_sam_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.874e+05 / 104
p0 3.848e−11 ± 3.302e−14
0.3
0.25
0.2
0.15
0.1
0.05

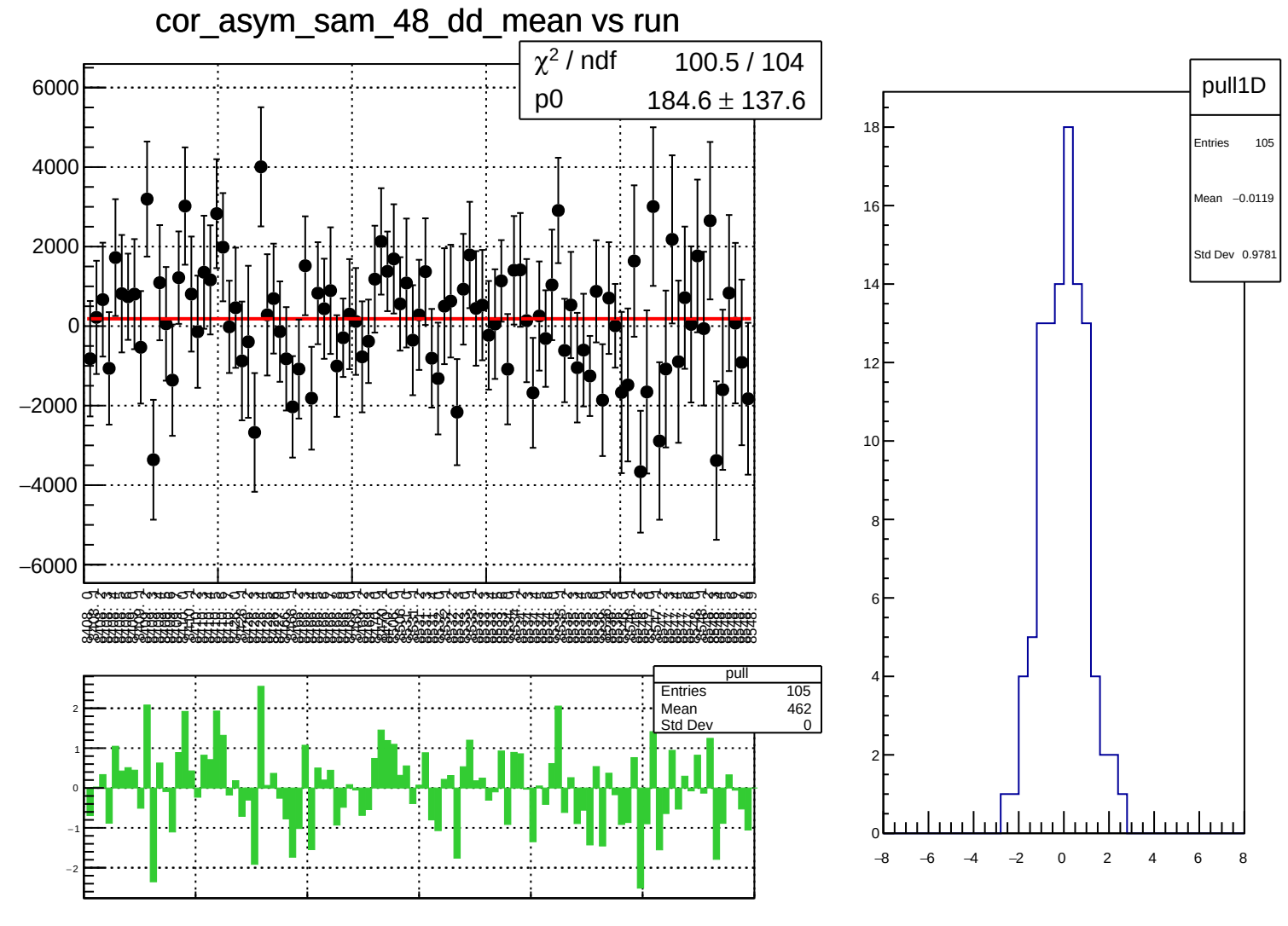

reg_asym_sam_48_dd_mean vs run
χ² / ndf 100.5 / 104
p0 184.6 ± 137.6
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 105
Mean 462.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.0119
Std Dev 0.9781
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

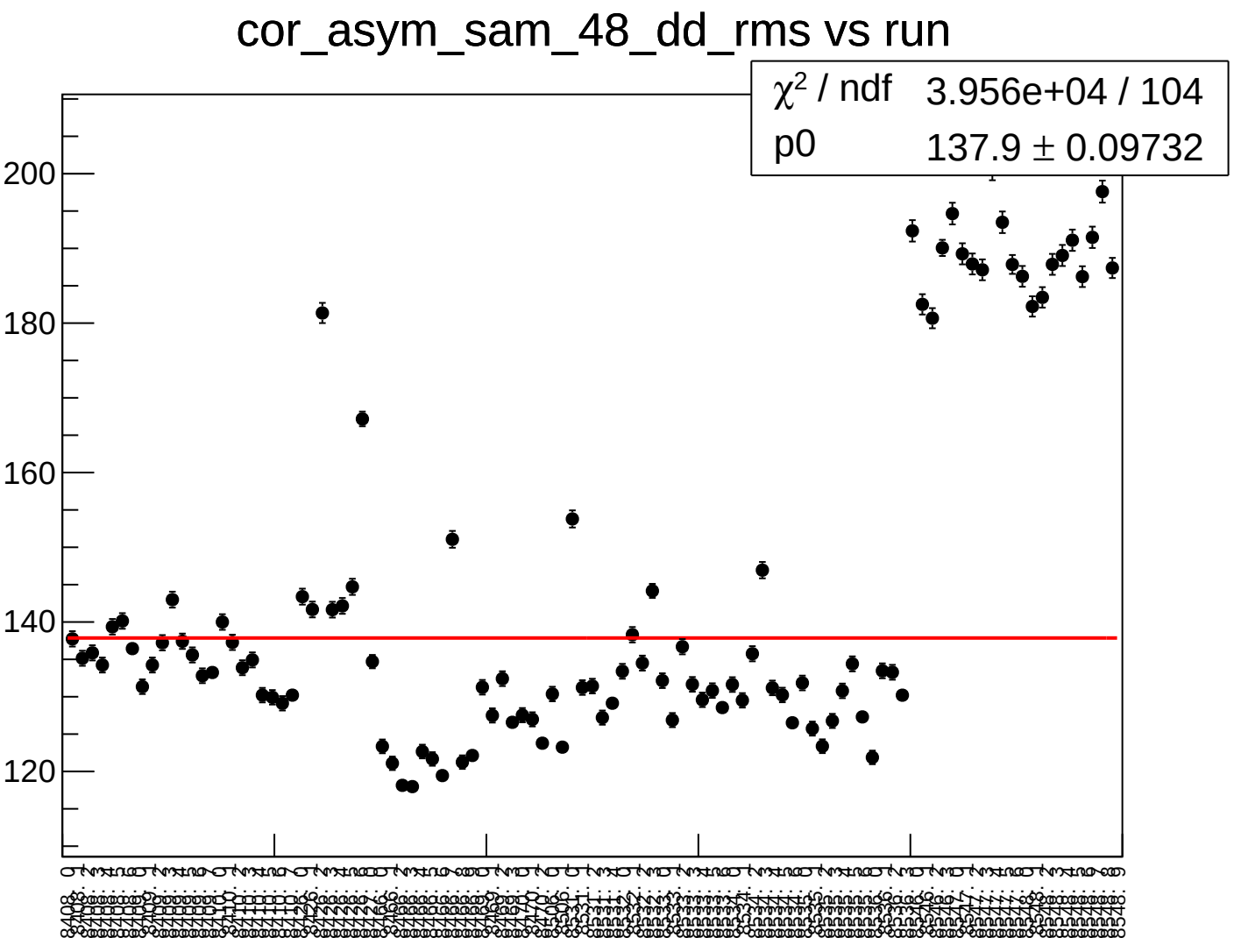

reg_asym_sam_48_dd_rms vs run
χ² / ndf 3.956e+04 / 104
p0 137.9 ± 0.09732
200
180
160
140
120

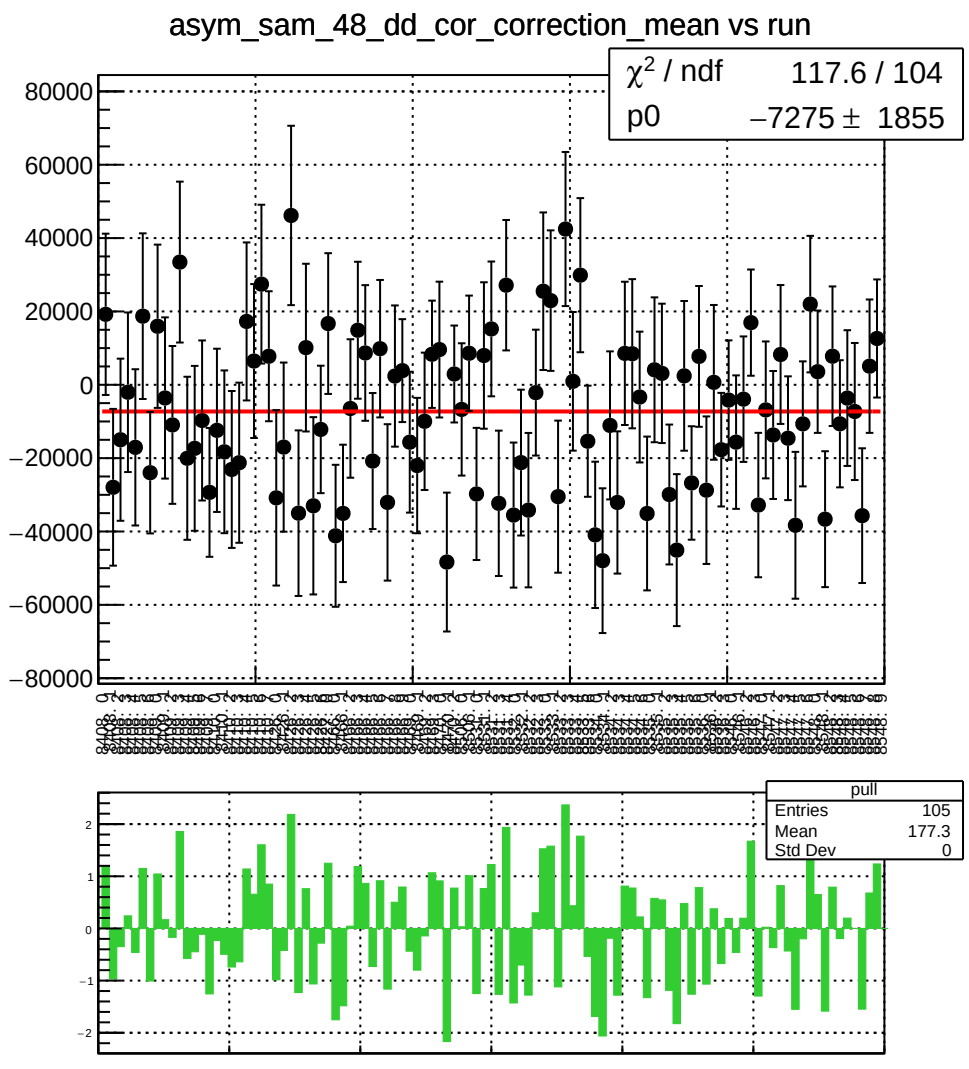

asym_sam_48_dd_reg_correction_mean vs run
χ² / ndf 117.6 / 104
p0 −7275 ± 1855
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 105
Mean 177.3
Std Dev 0
2
1
0
−1
−2

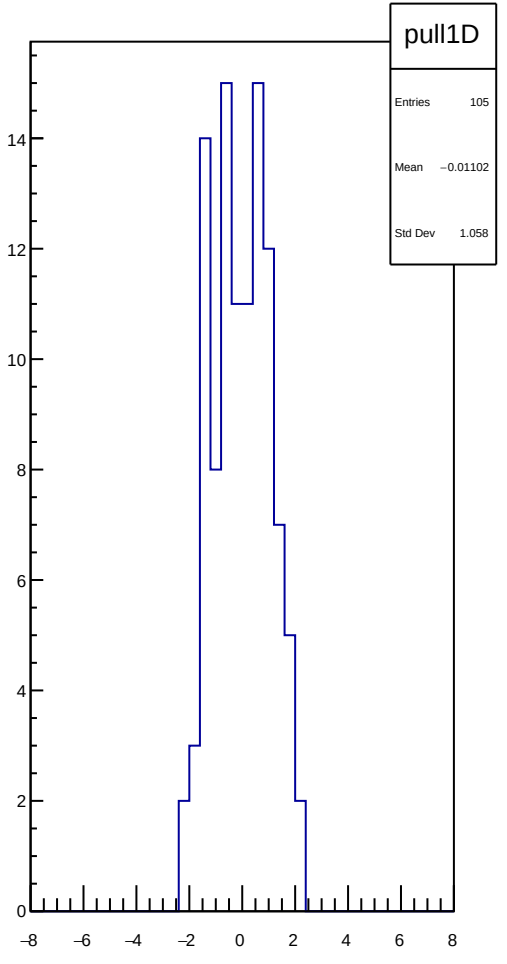

pull1D
Entries 105
Mean −0.01102
Std Dev 1.058
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

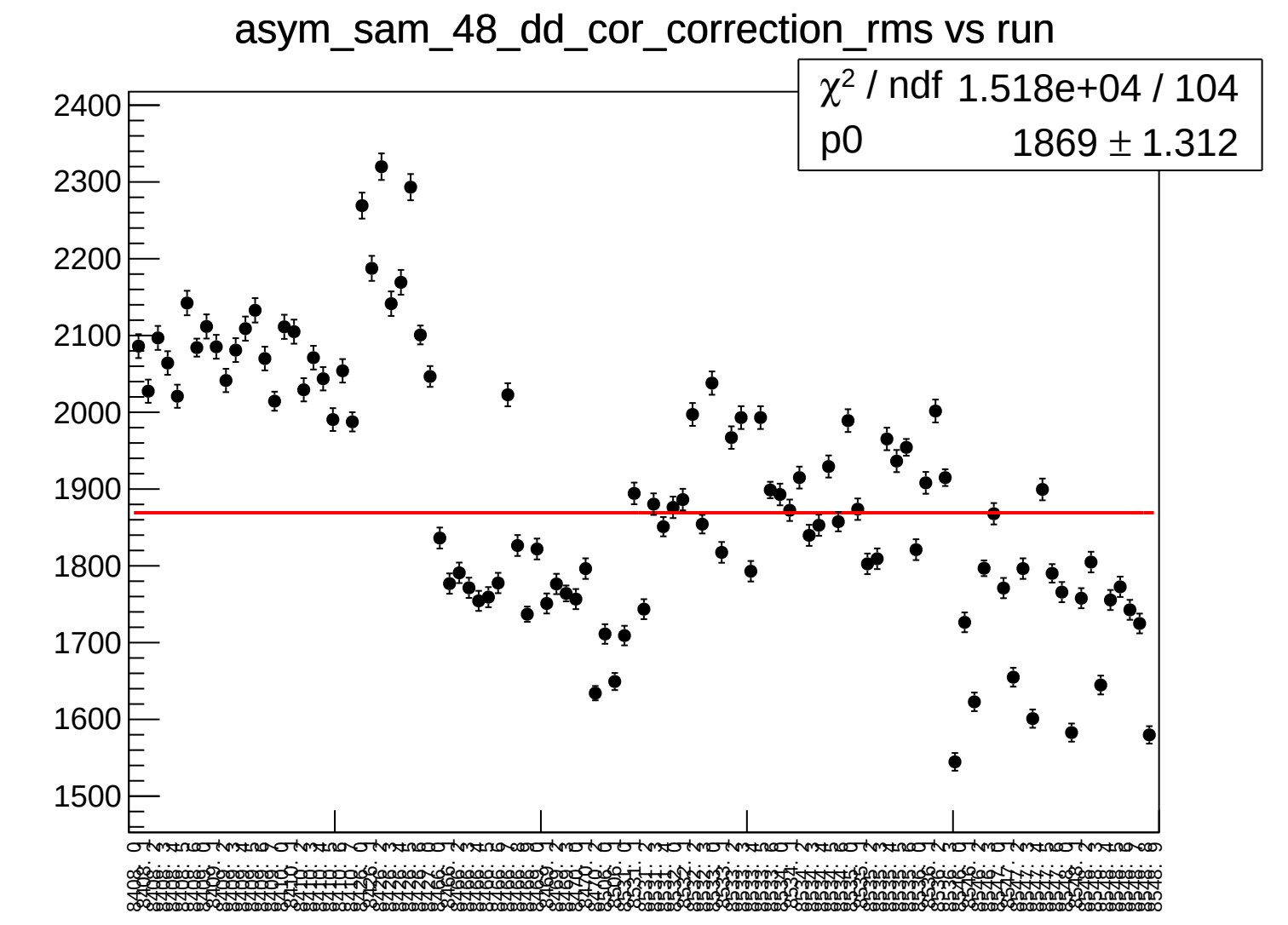

asym_sam_48_dd_reg_correction_rms vs run
χ² / ndf 1.518e+04 / 104
p0 1869 ± 1.312
2400
2300
2200
2100
2000
1900
1800
1700
1600
1500

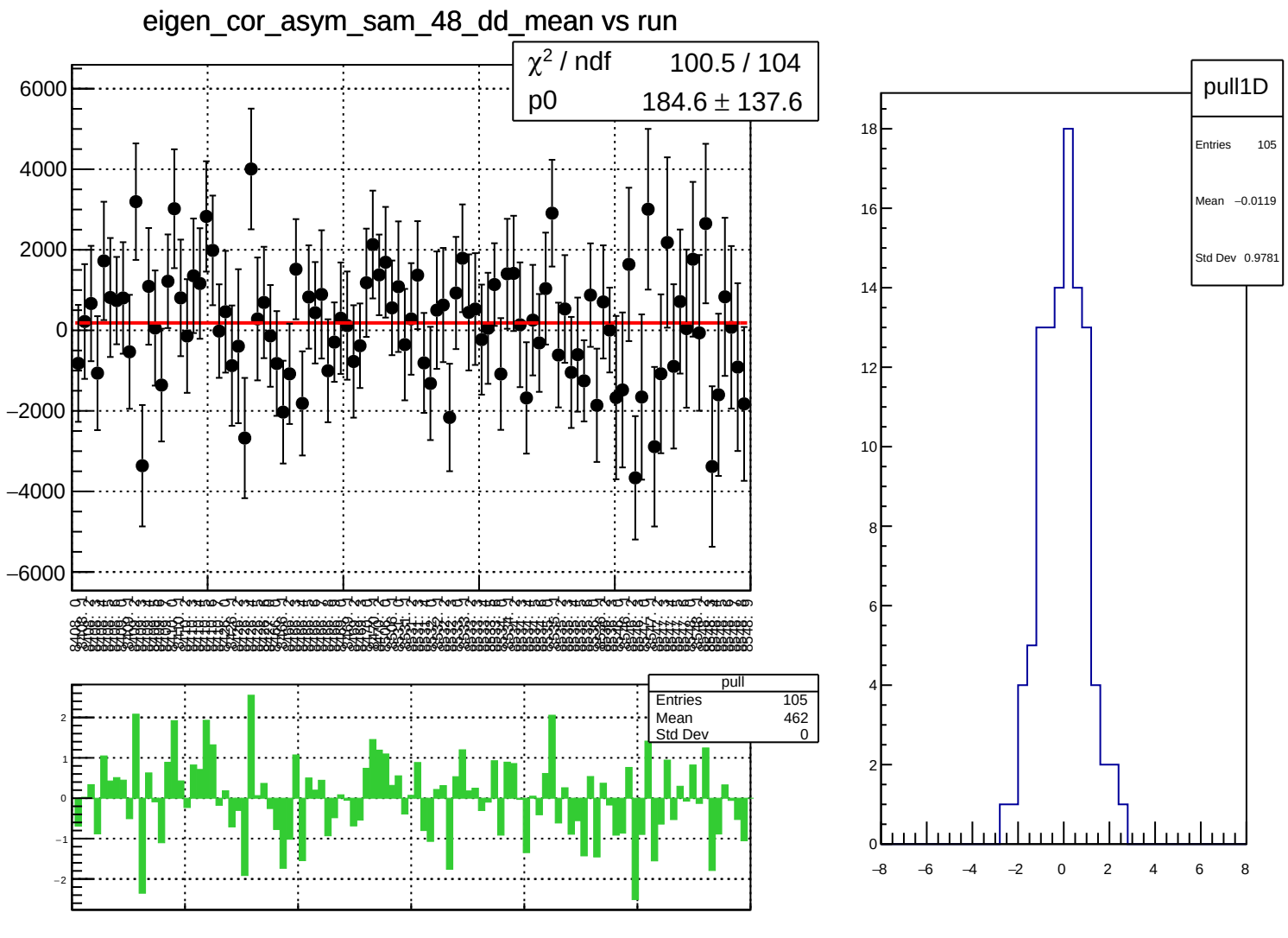

cor_asym_sam_48_dd_mean vs run
χ² / ndf 100.5 / 104
p0 184.6 ± 137.6
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 105
Mean 462
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.0119
Std Dev 0.9781
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

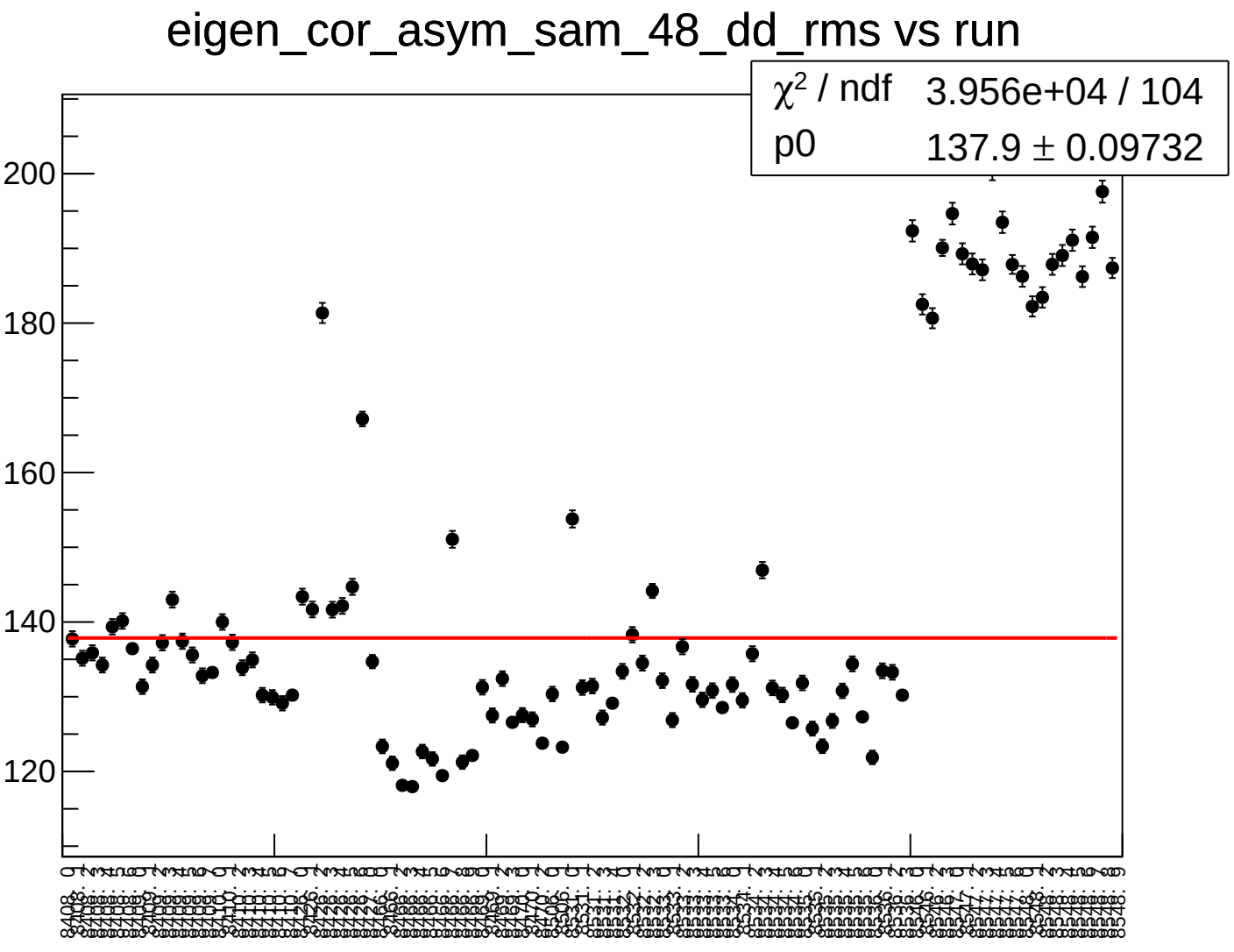

cor_asym_sam_48_dd_rms vs run
χ² / ndf 3.956e+04 / 104
p0 137.9 ± 0.09732
200
180
160
140
120

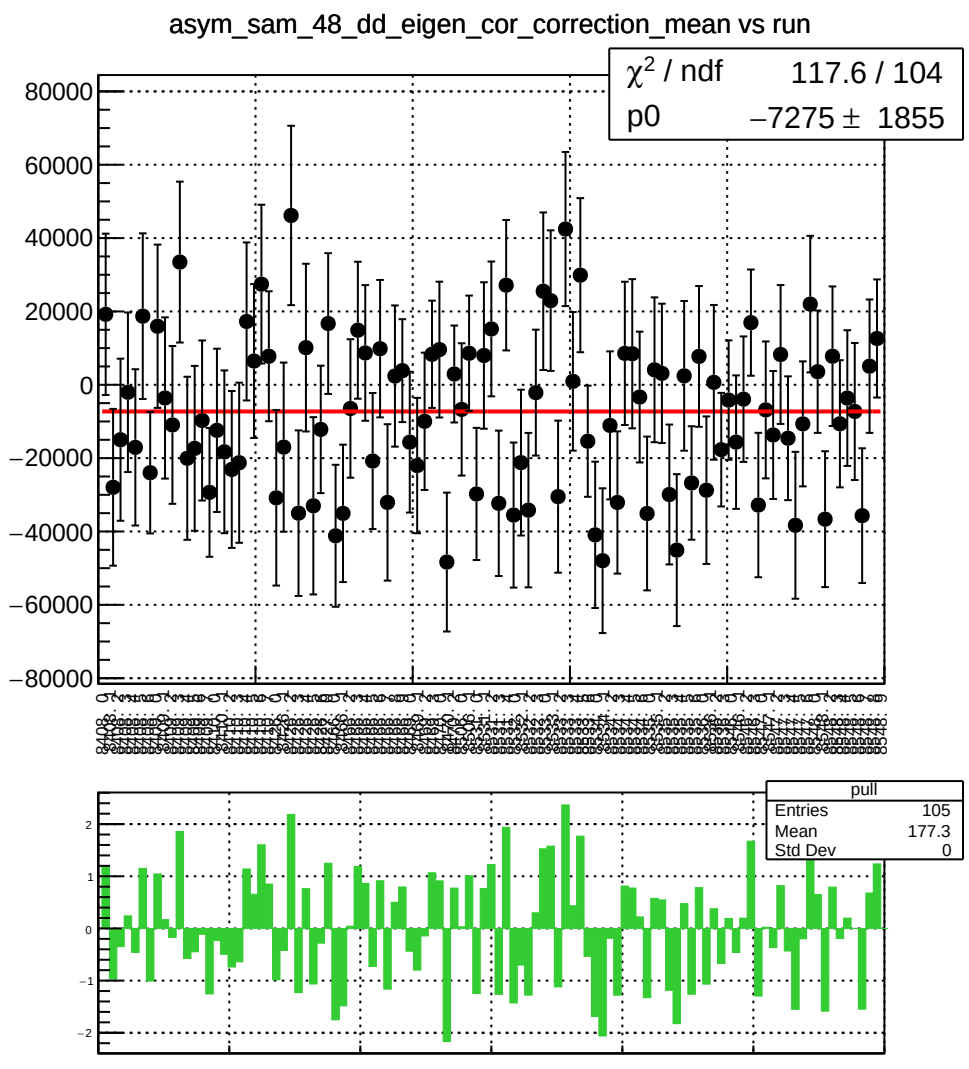

asym_sam_48_dd_cor_correction_mean vs run
χ² / ndf 117.6 / 104
p0 −7275 ± 1855
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 105
Mean 177.3
Std Dev 0
2
1
0
−1
−2

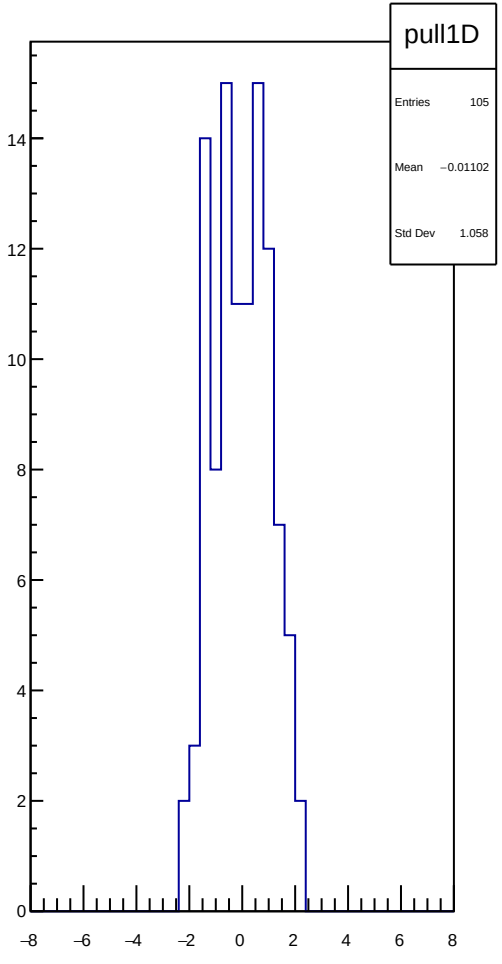

pull1D
Entries 105
Mean −0.01102
Std Dev 1.058
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

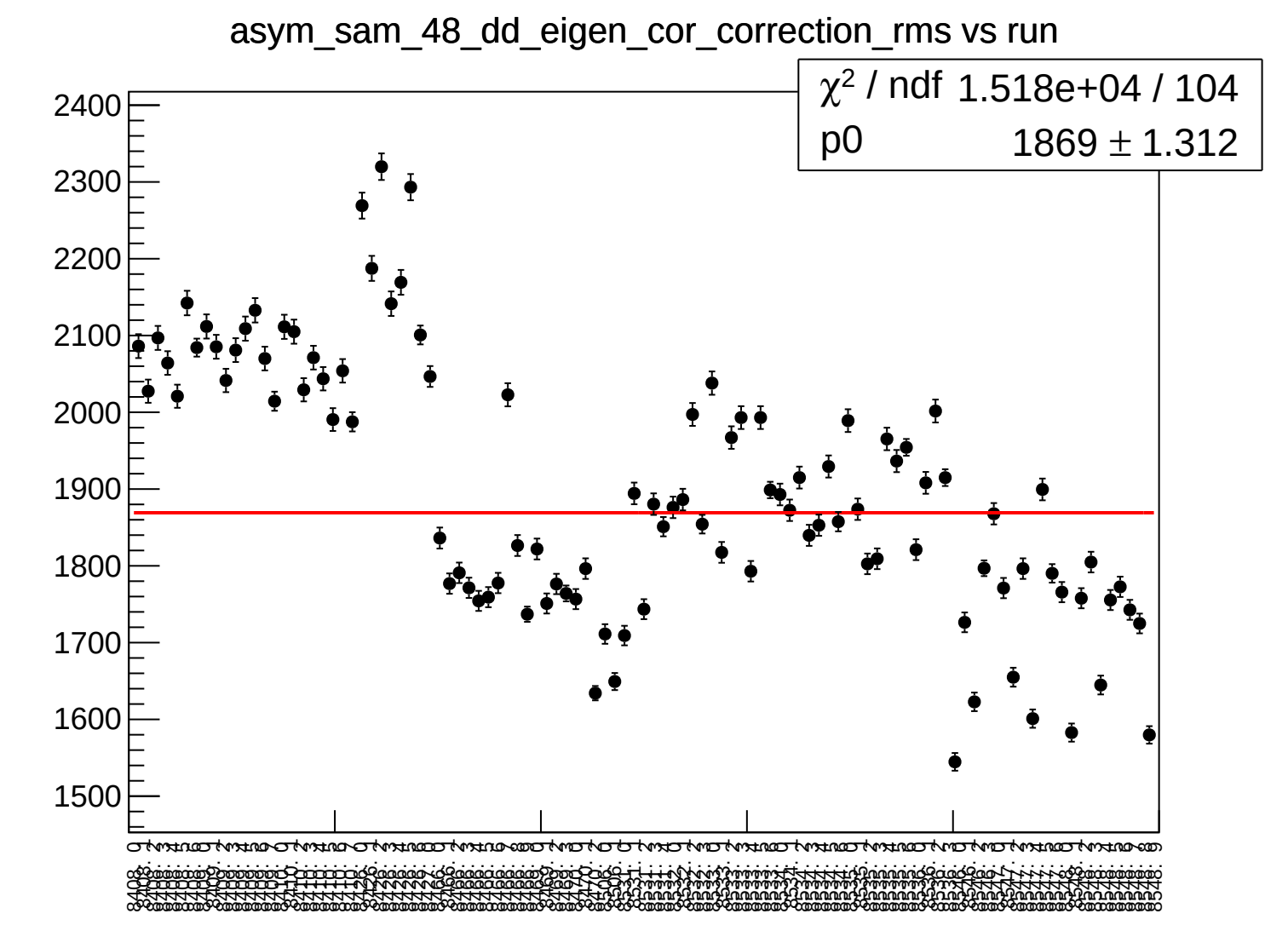

asym_sam_48_dd_cor_correction_rms vs run
χ² / ndf 1.518e+04 / 104
p0 1869 ± 1.312
2400
2300
2200
2100
2000
1900
1800
1700
1600
1500

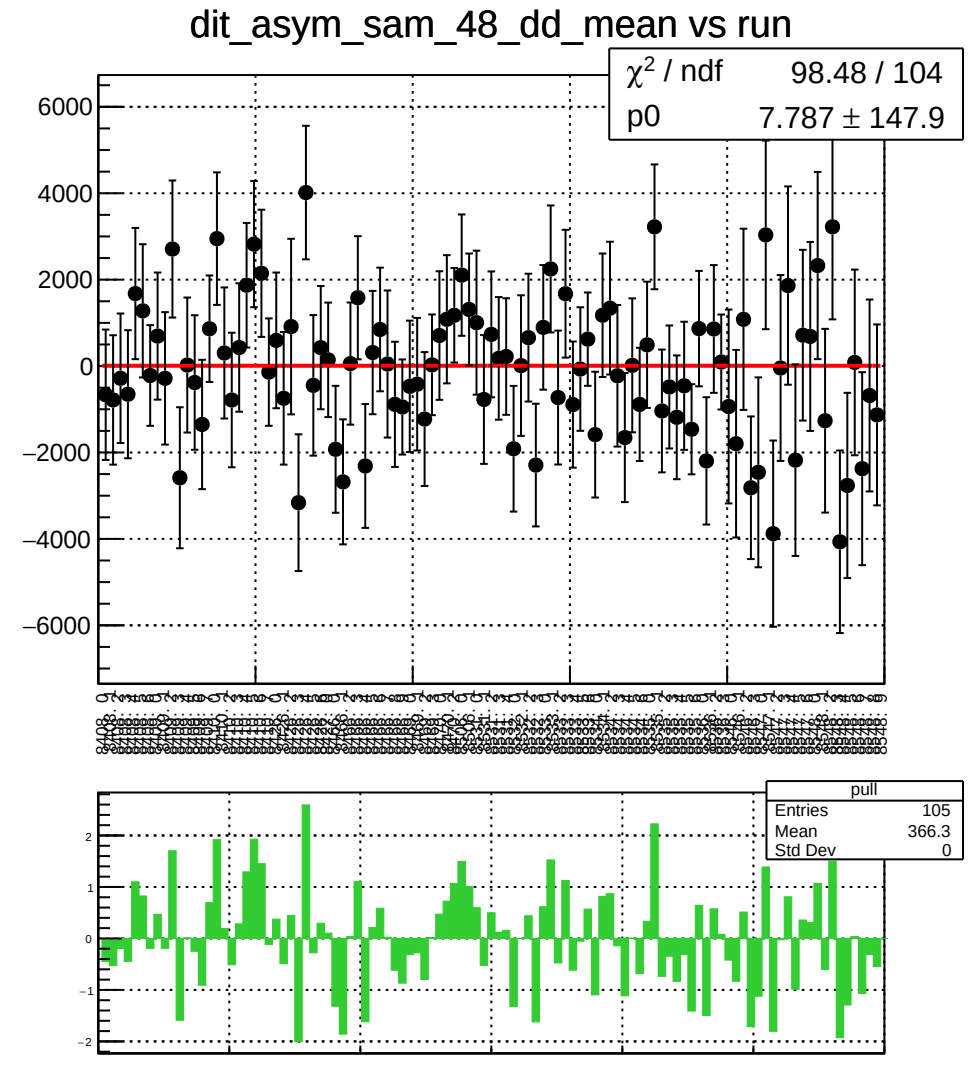

eigen_cor_asym_sam_48_dd_mean vs run
χ² / ndf 100.5 / 104
p0 184.6 ± 137.6
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 105
Mean 462
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.0119
Std Dev 0.9781
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

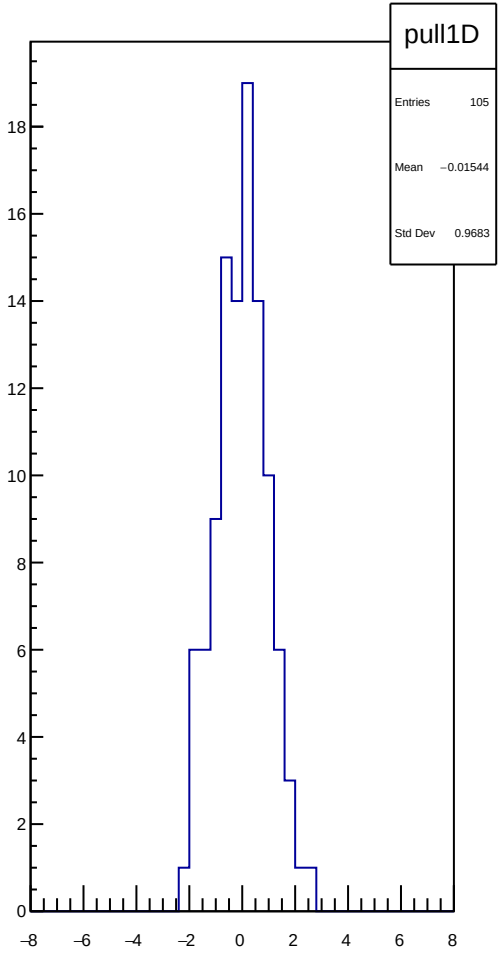

eigen_cor_asym_sam_48_dd_rms vs run
χ² / ndf 3.956e+04 / 104
p0 137.9 ± 0.09732
200
180
160
140
120

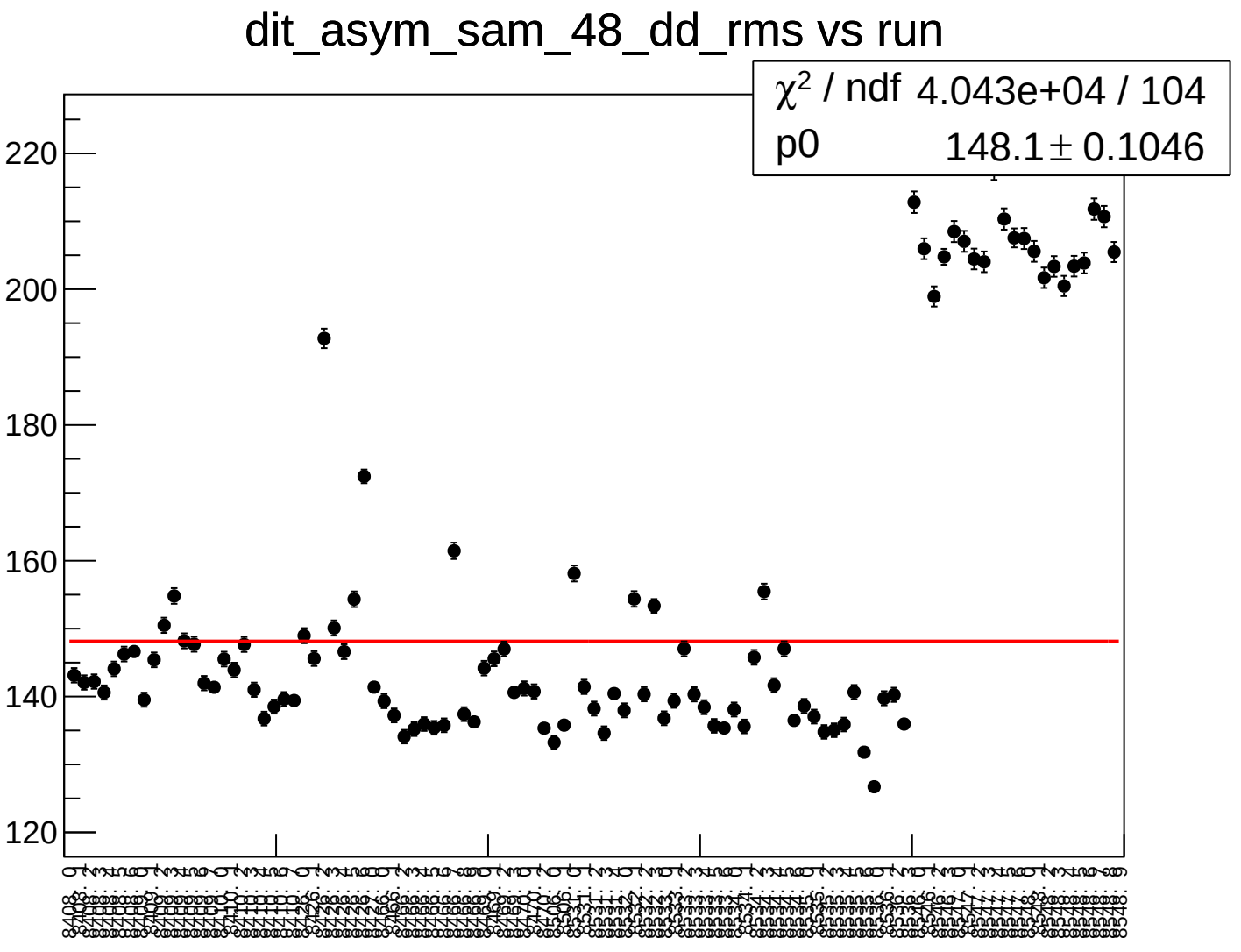

asym_sam_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 117.6 / 104
p0 −7275 ± 1855
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 105
Mean 177.3
Std Dev 0
2
1
0
−1
−2

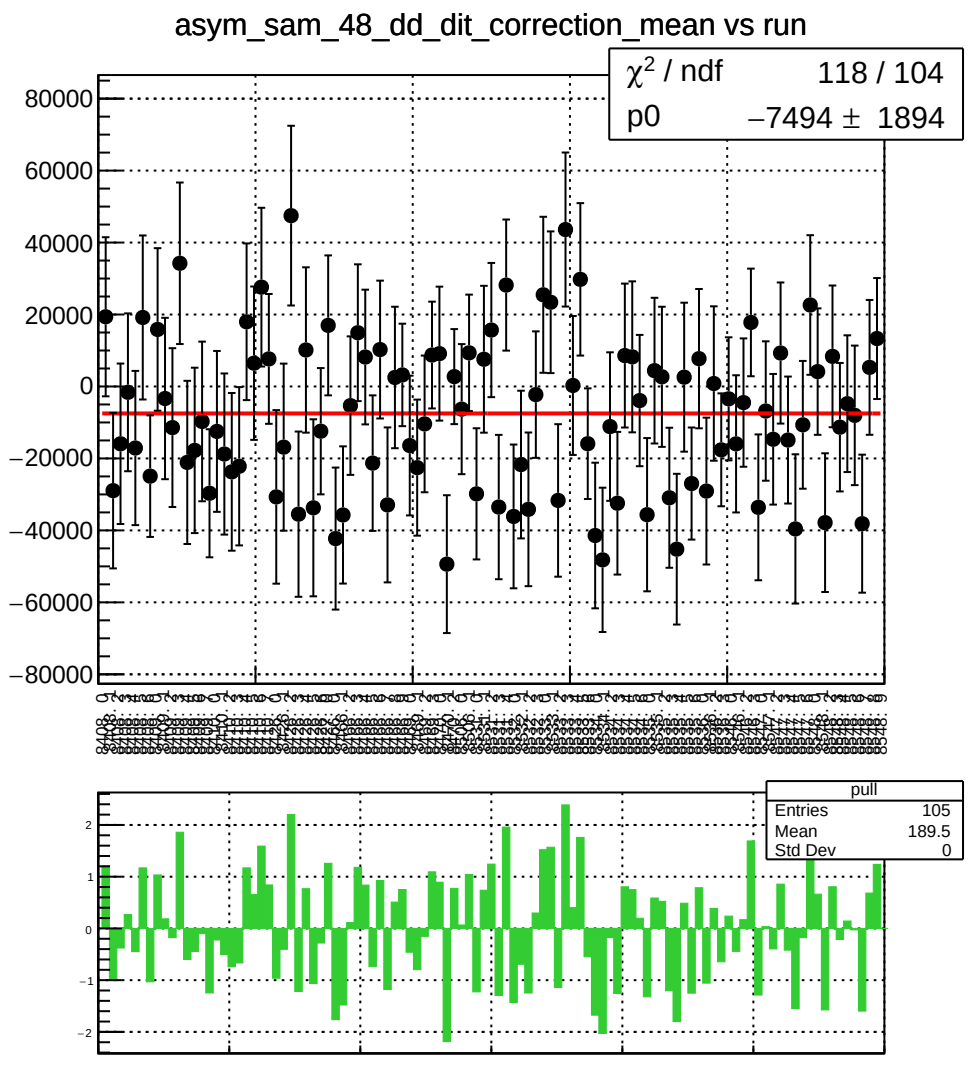

pull1D
Entries 105
Mean −0.01102
Std Dev 1.058
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

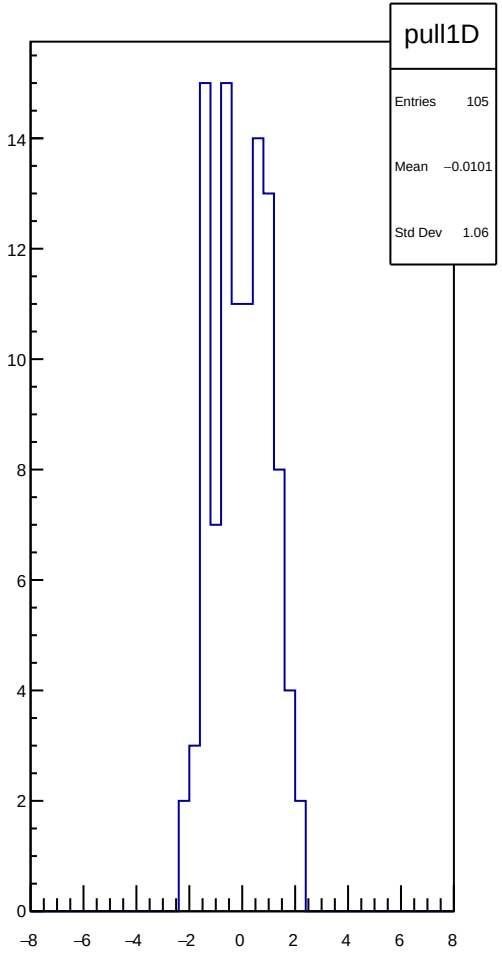

asym_sam_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.518e+04 / 104
p0 1869 ± 1.312
2400
2300
2200
2100
2000
1900
1800
1700
1600
1500

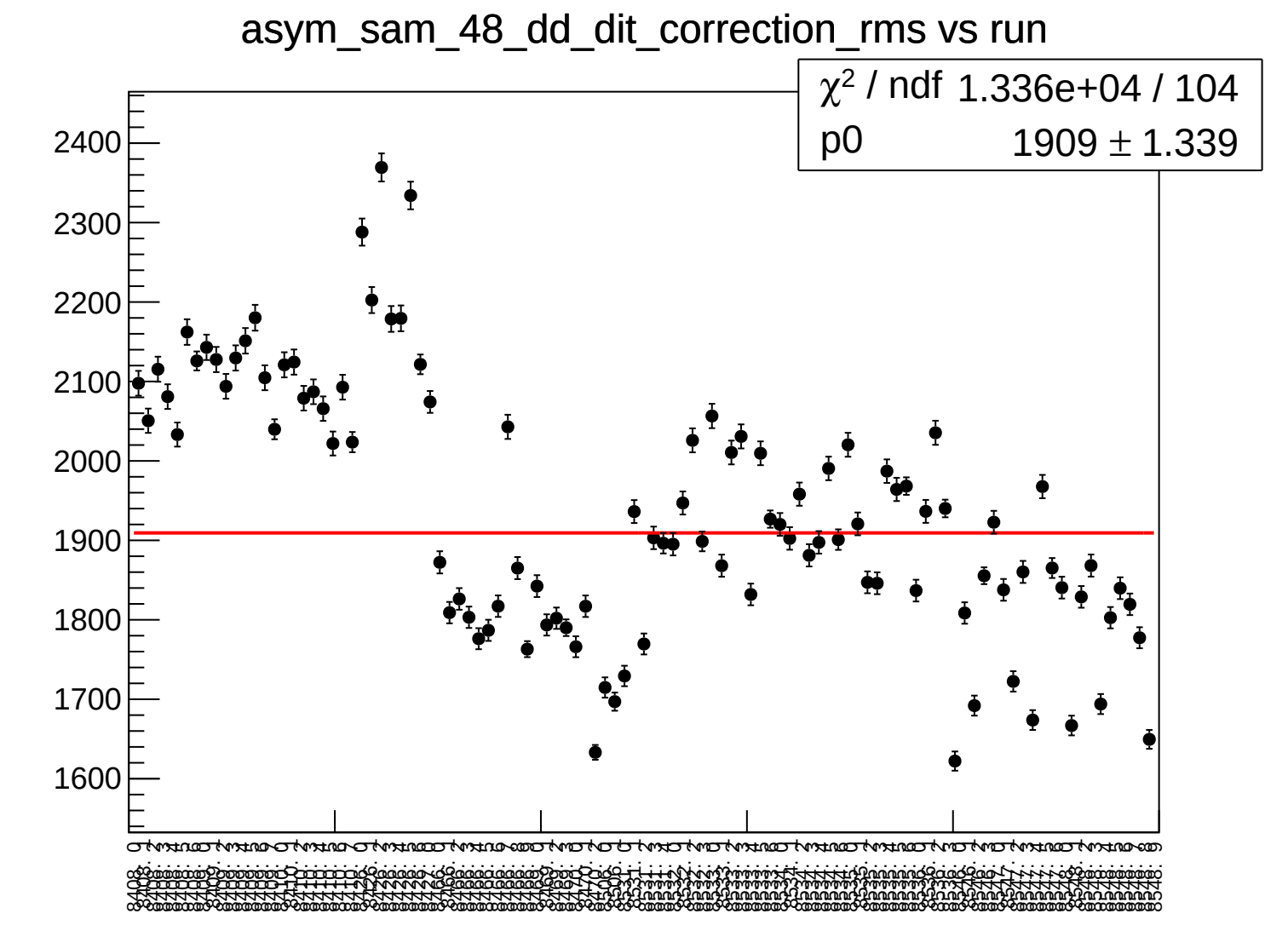

dit_asym_sam_48_dd_mean vs run
χ² / ndf 98.48 / 104
p0 7.787 ± 147.9
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 105
Mean 366.3
Std Dev 0
2
1
0
−1
−2

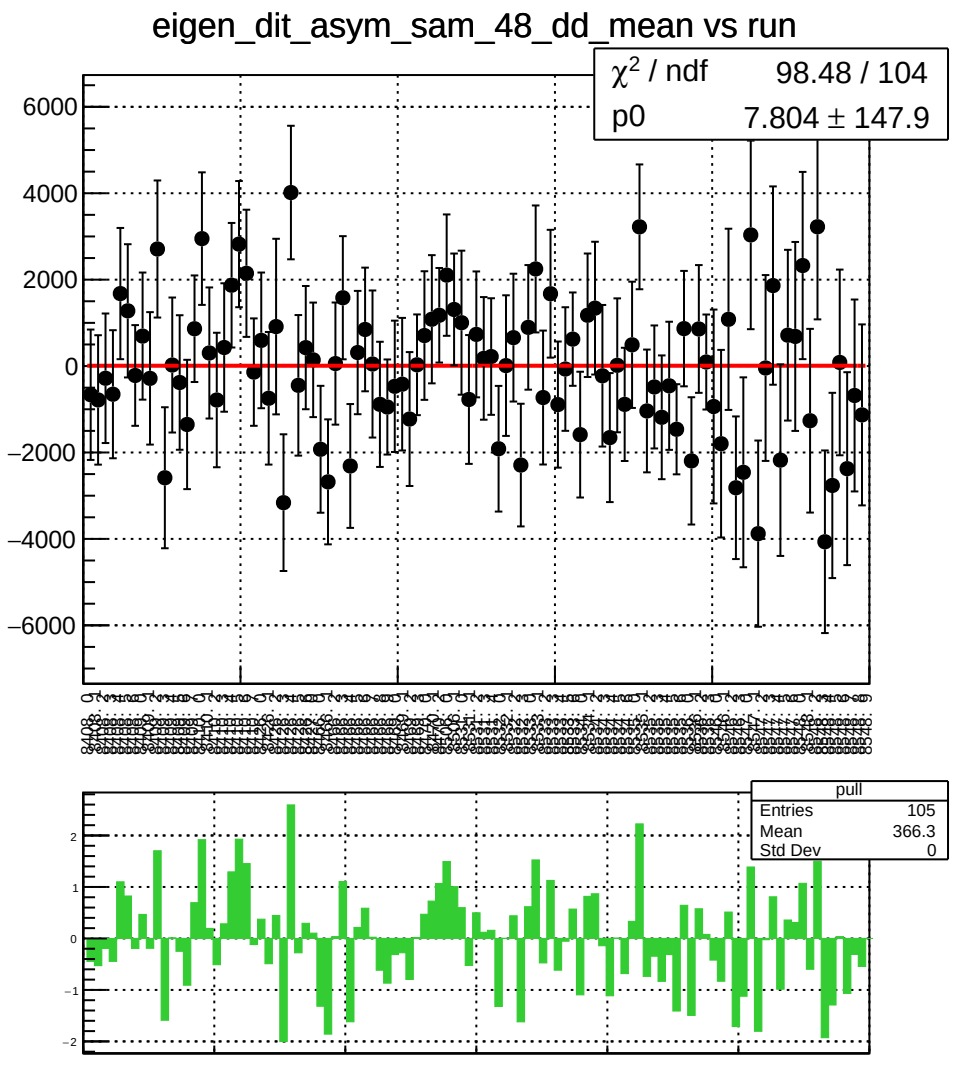

pull1D
Entries 105
Mean −0.01544
Std Dev 0.9683
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

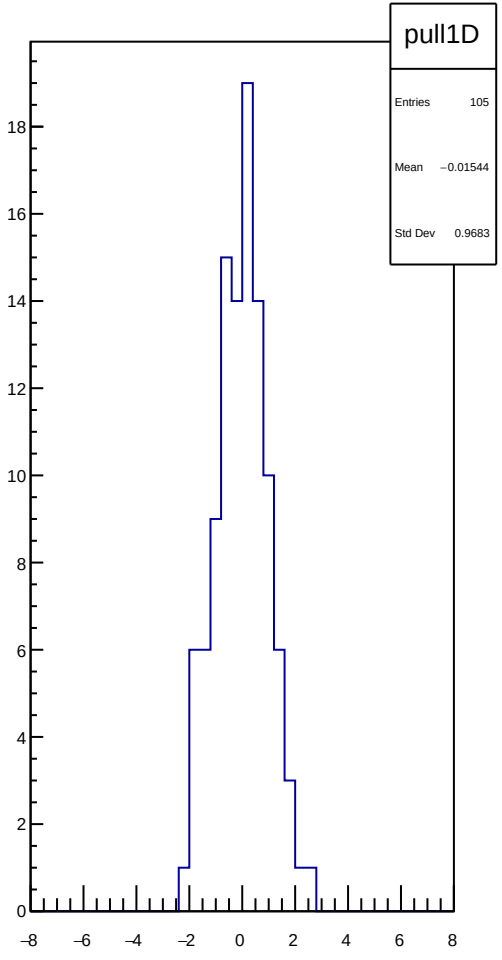

dit_asym_sam_48_dd_rms vs run
χ² / ndf 4.043e+04 / 104
p0 148.1 ± 0.1046
220
200
180
160
140
120

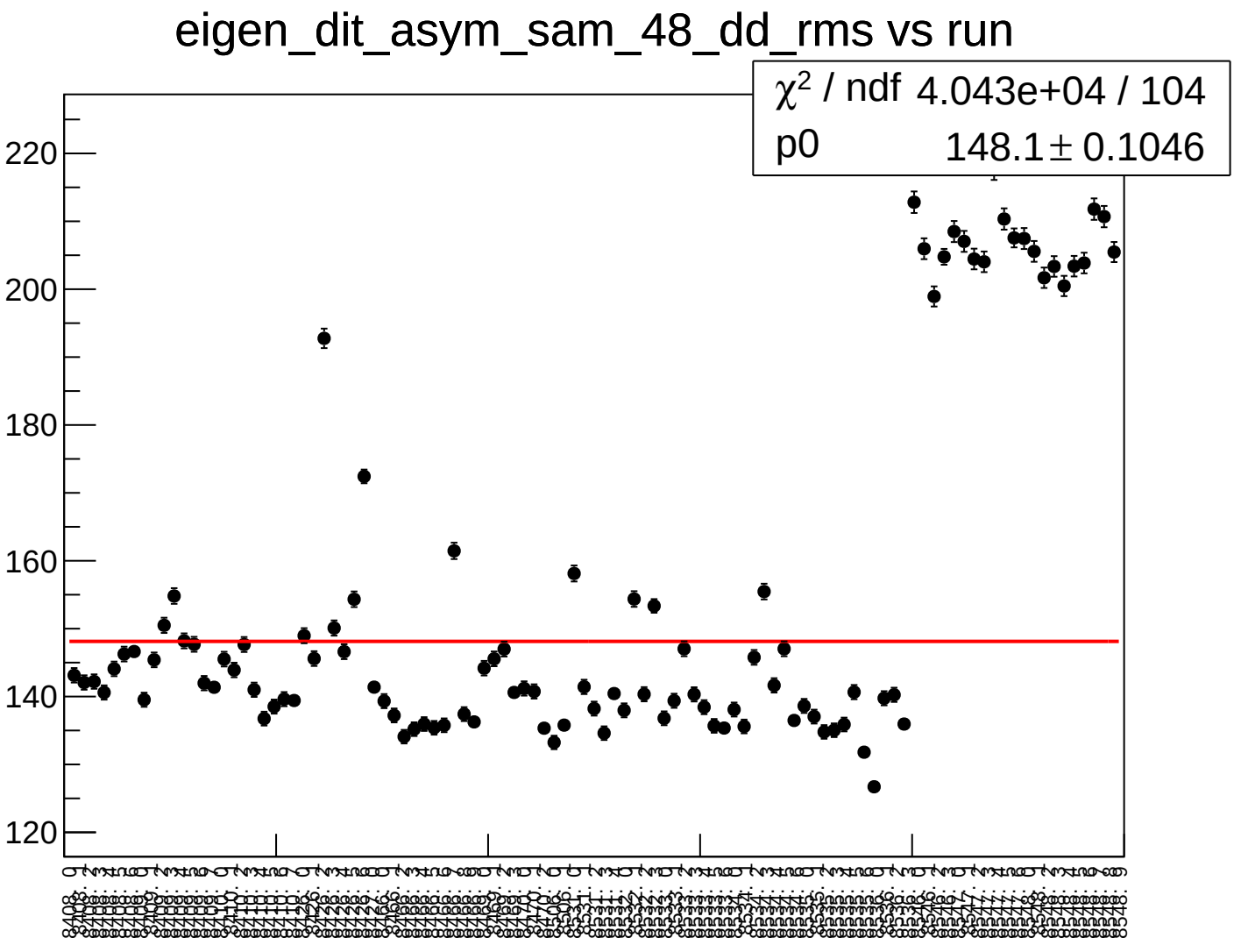

asym_sam_48_dd_dit_correction_mean vs run
χ² / ndf 118 / 104
p0 −7494 ± 1894
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 105
Mean 189.5
Std Dev 0
2
1
0
−1
−2

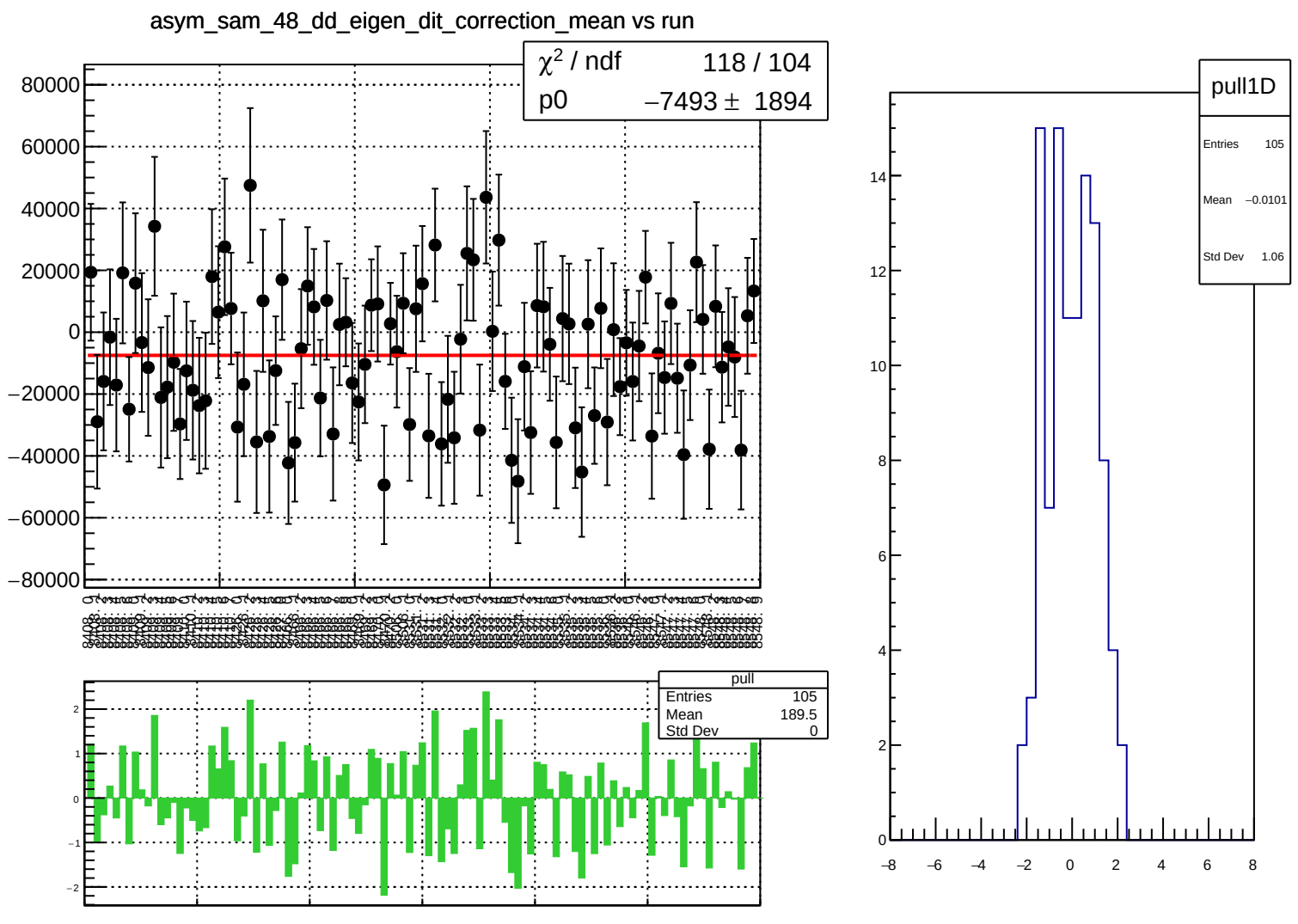

pull1D
Entries 105
Mean −0.0101
Std Dev 1.06
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

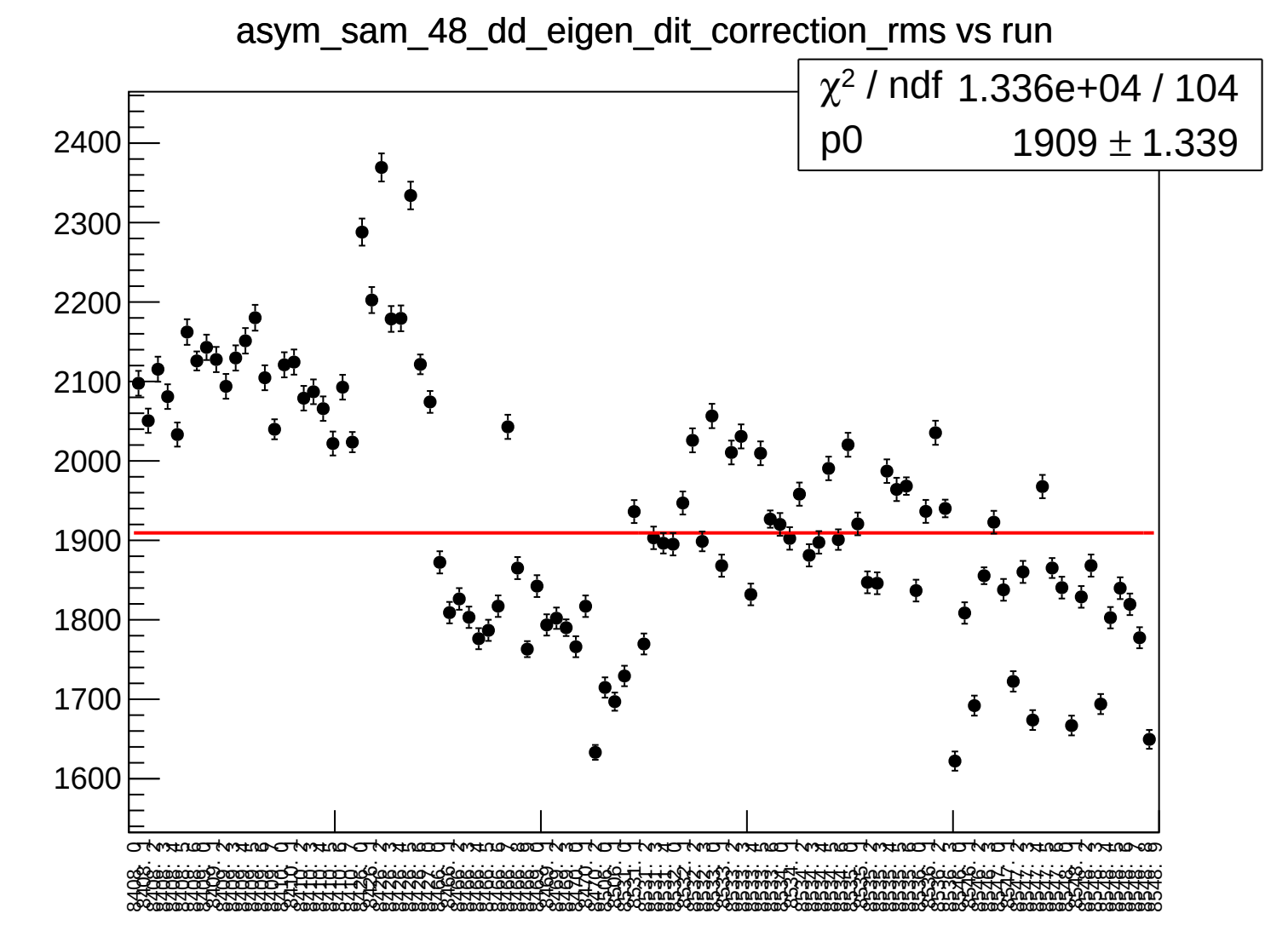

asym_sam_48_dd_dit_correction_rms vs run
χ² / ndf 1.336e+04 / 104
p0 1909 ± 1.339
2400
2300
2200
2100
2000
1900
1800
1700
1600

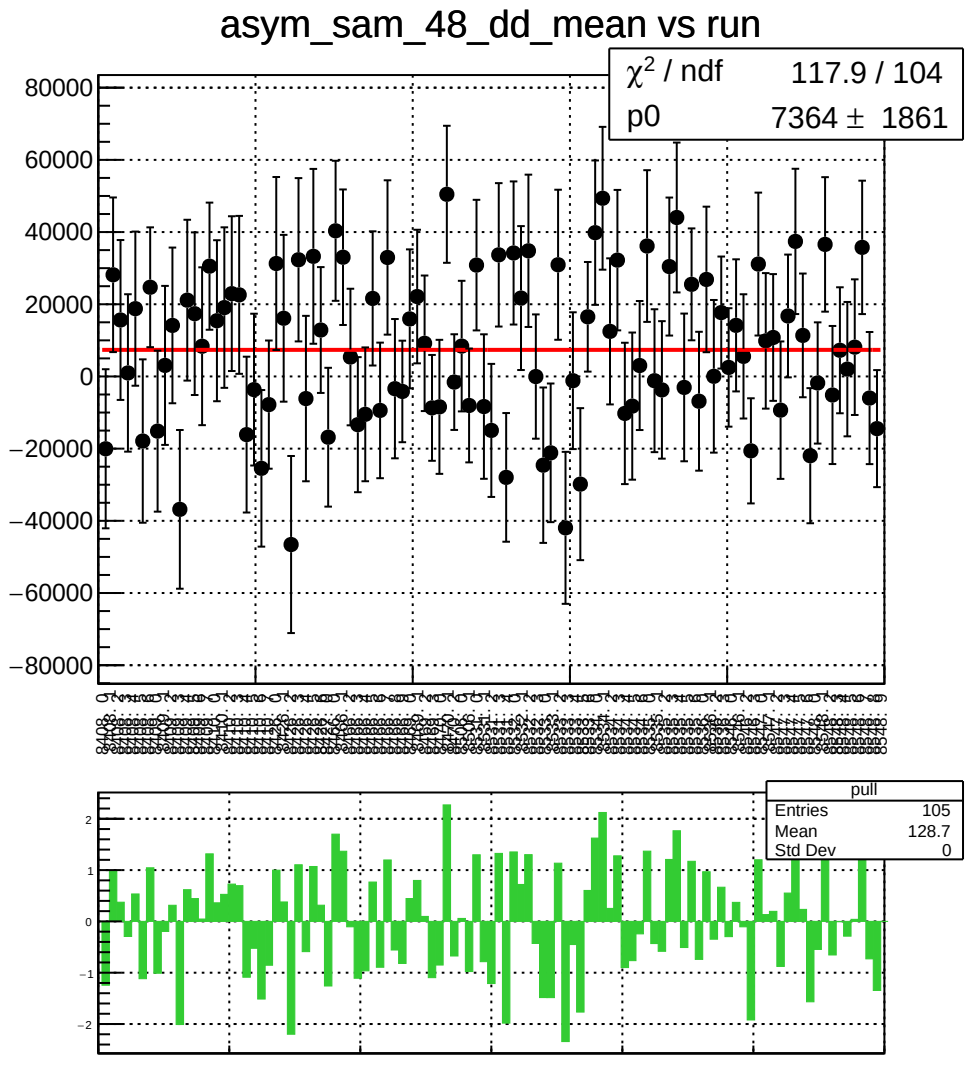

eigen_dit_asym_sam_48_dd_mean vs run
χ² / ndf 98.48 / 104
p0 7.804 ± 147.9
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 105
Mean 366.3
Std Dev 0
2
1
0
−1
−2

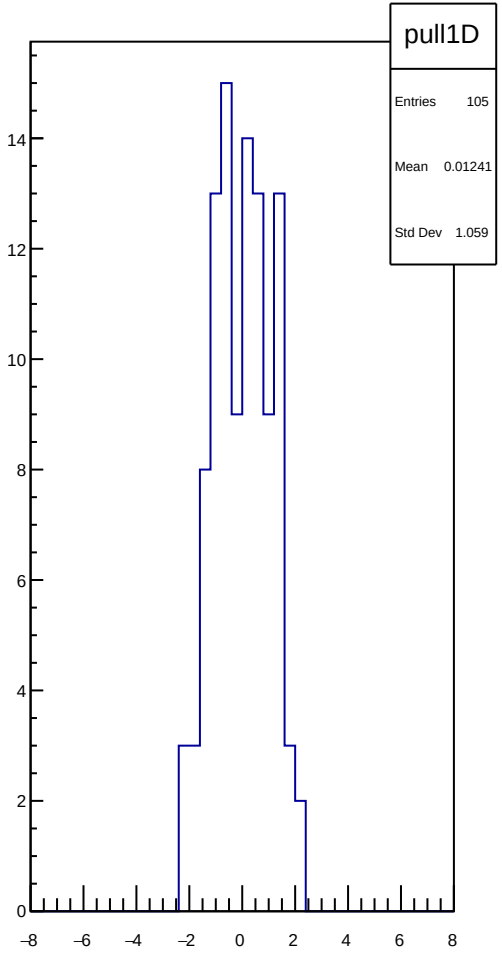

pull1D
Entries 105
Mean −0.01544
Std Dev 0.9683
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

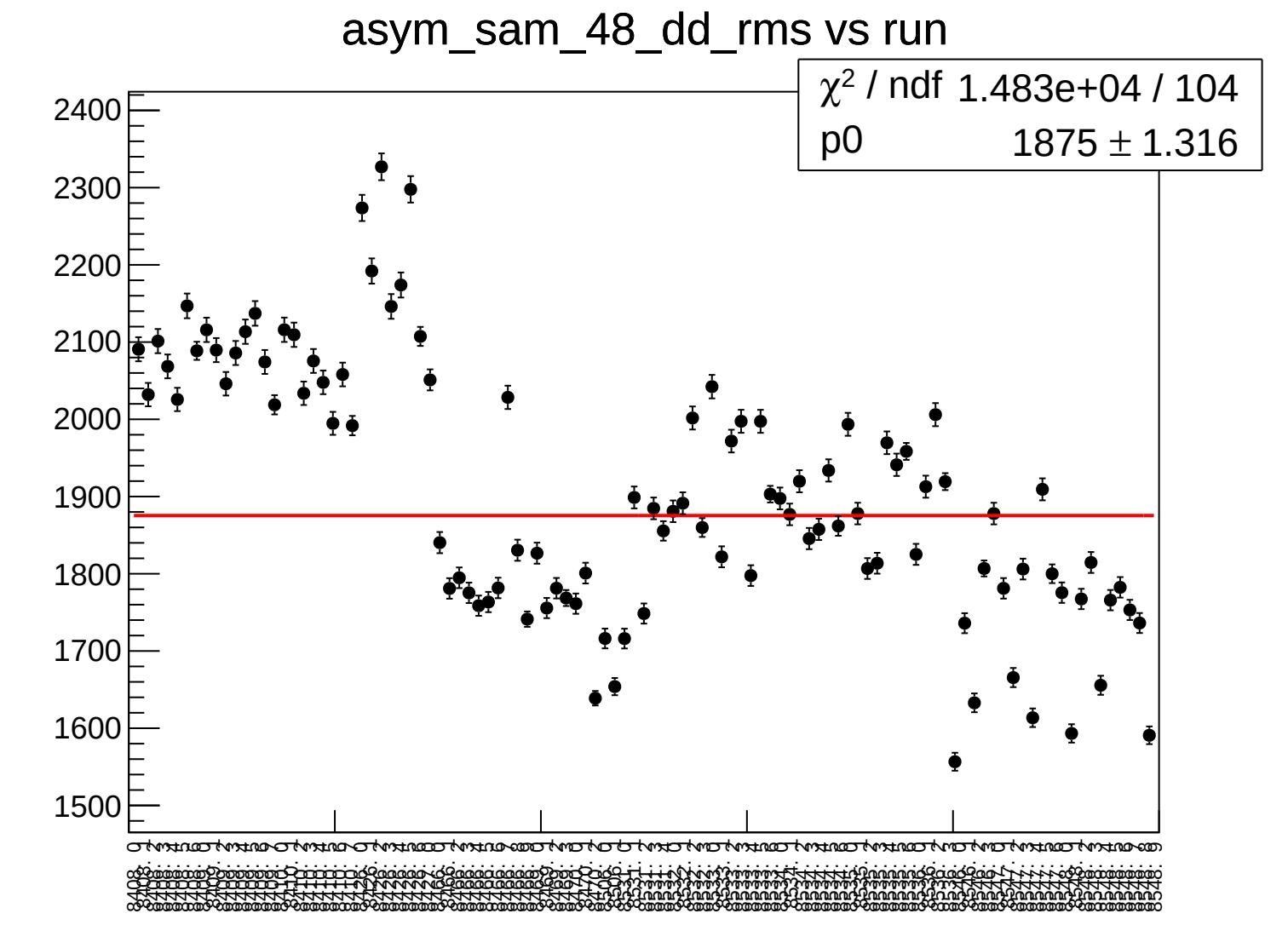

eigen_dit_asym_sam_48_dd_rms vs run
χ² / ndf 4.043e+04 / 104
p0 148.1 ± 0.1046
220
200
180
160
140
120

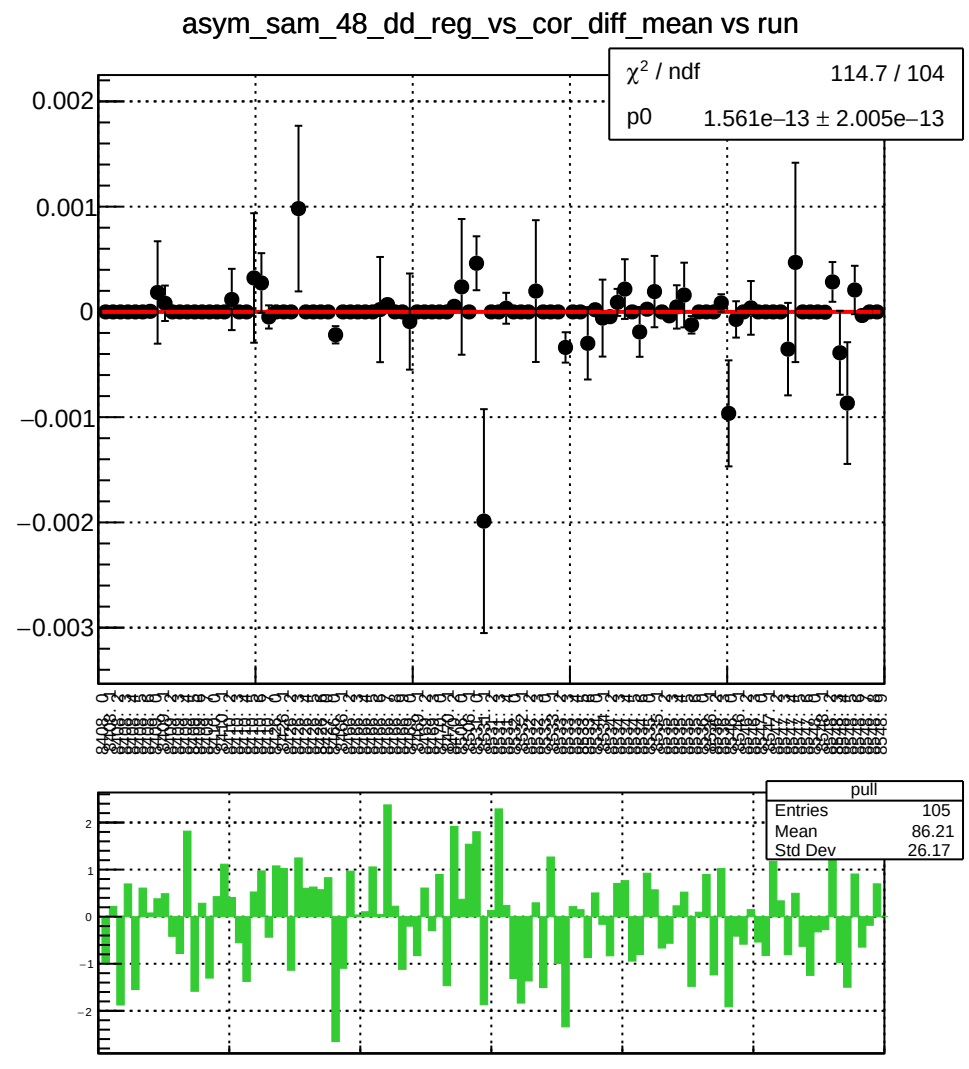

asym_sam_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 118 / 104
p0 −7493 ± 1894
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 105
Mean 189.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.0101
Std Dev 1.06
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

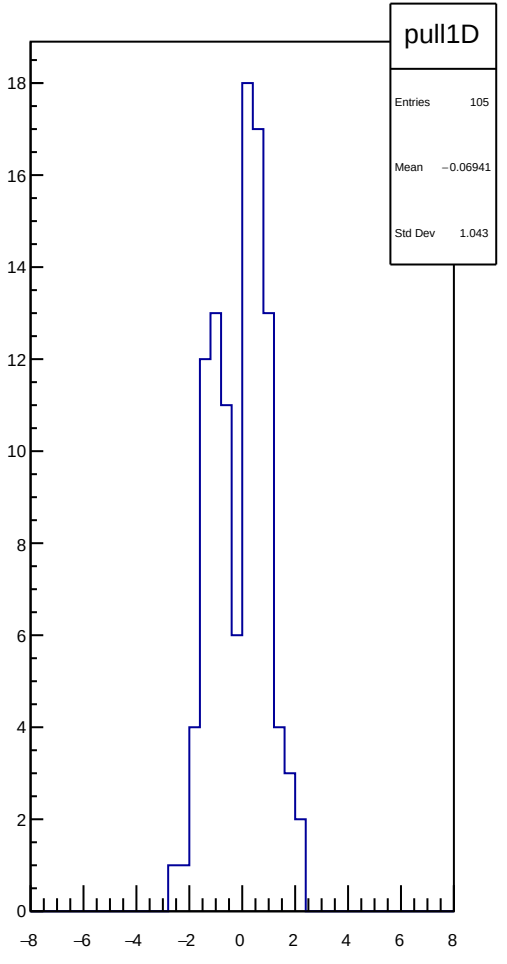

asym_sam_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.336e+04 / 104
p0 1909 ± 1.339
2400
2300
2200
2100
2000
1900
1800
1700
1600

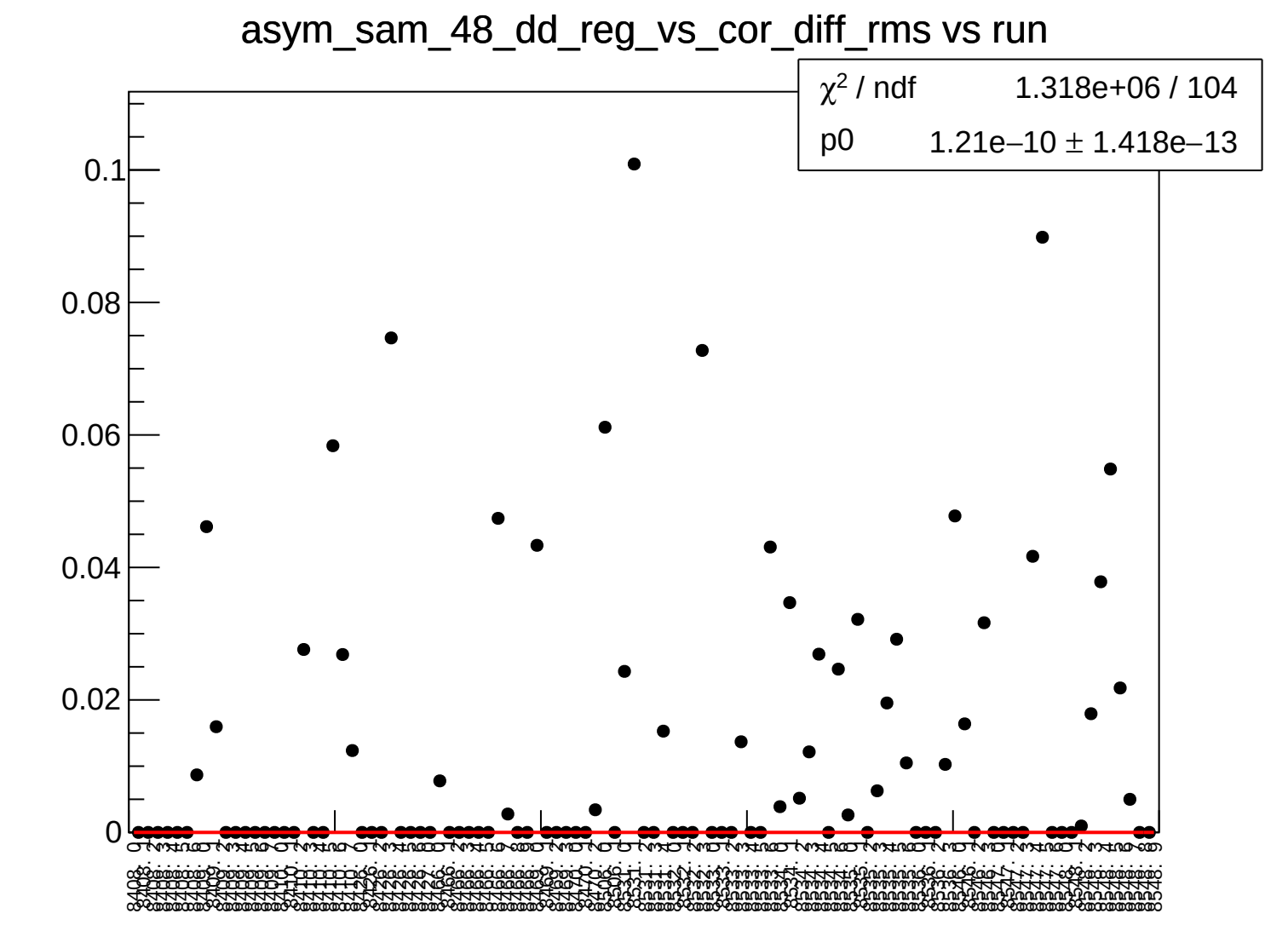

asym_sam_48_dd_mean vs run
χ² / ndf 117.9 / 104
p0 7364 ± 1861
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 105
Mean 128.7
Std Dev 0
2
1
0
−1
−2

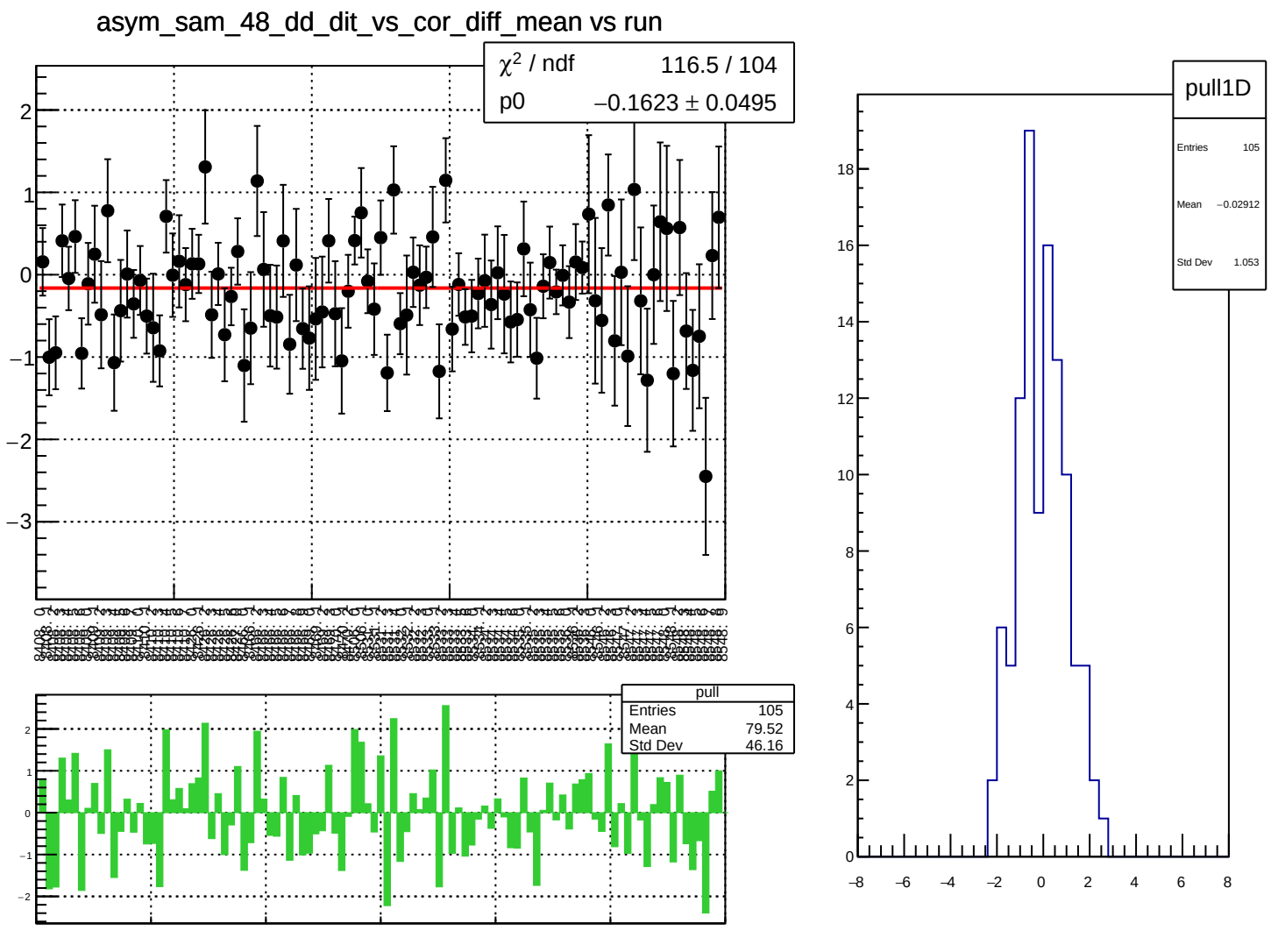

pull1D
Entries 105
Mean 0.01241
Std Dev 1.059
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

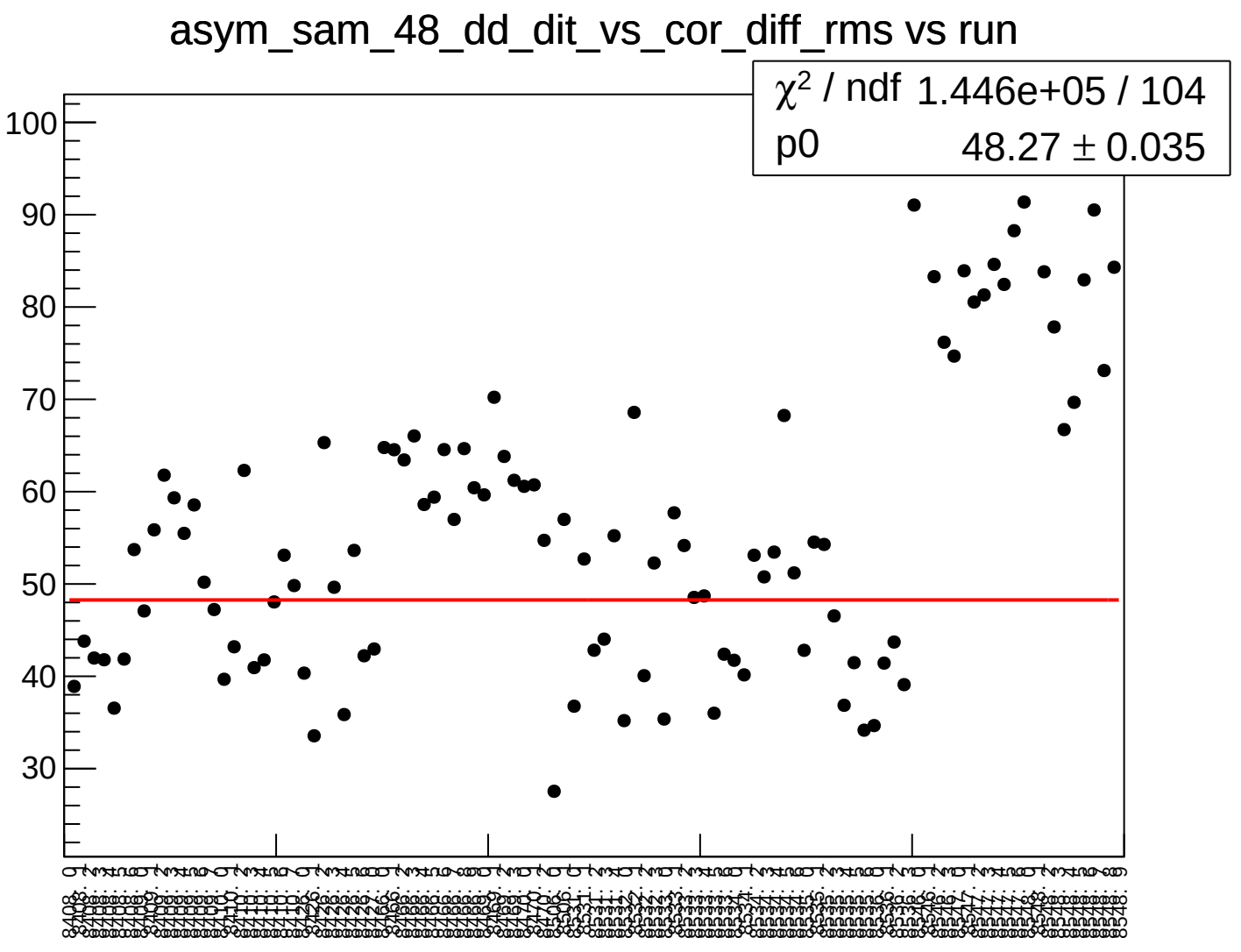

asym_sam_48_dd_rms vs run
χ² / ndf 1.483e+04 / 104
p0 1875 ± 1.316
2400
2300
2200
2100
2000
1900
1800
1700
1600
1500

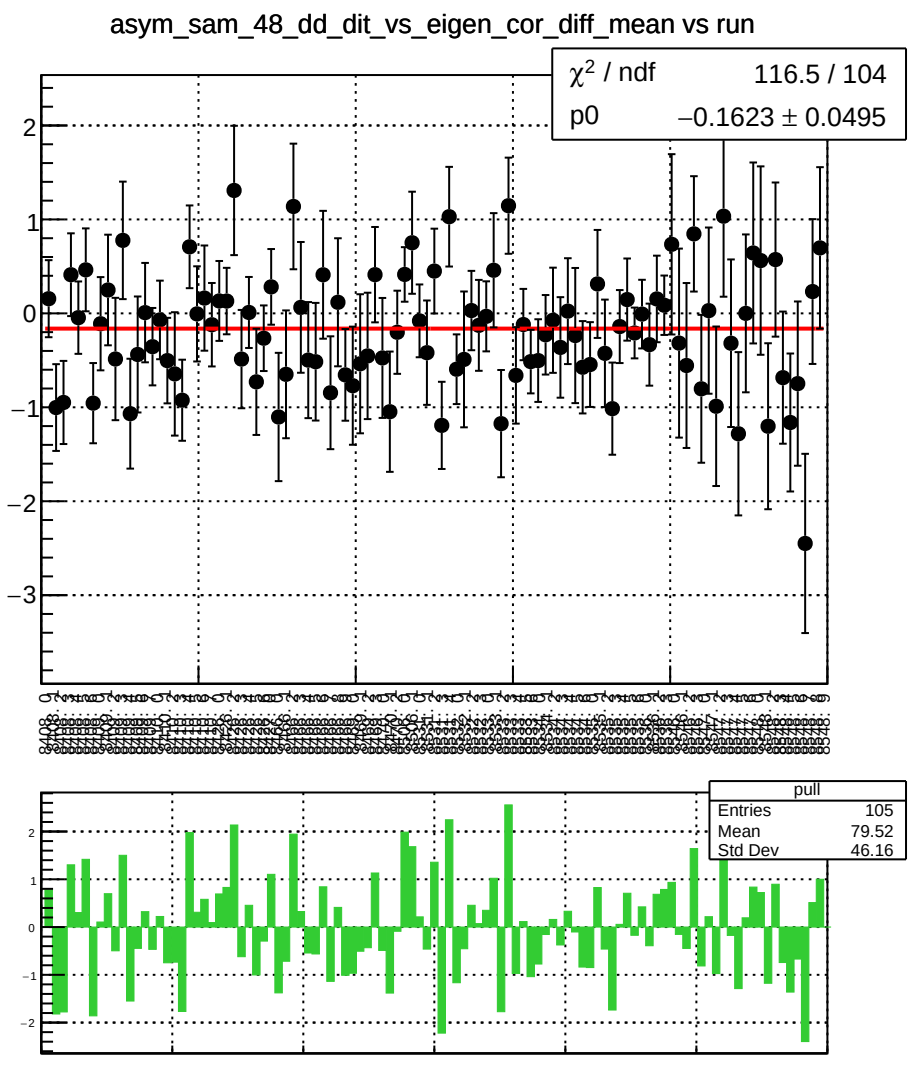

asym_sam_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 114.7 / 104
p0 1.561e−13 ± 2.005e−13
0.002
0.001
0
−0.001
−0.002
−0.003
pull
Entries 105
Mean 86.21
Std Dev 26.17
2
1
0
−1
−2

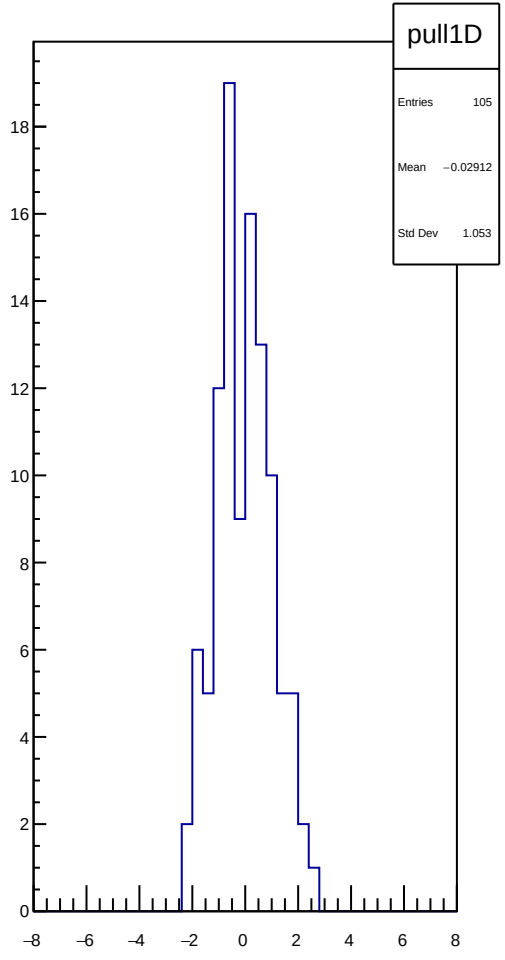

pull1D
Entries 105
Mean −0.06941
Std Dev 1.043
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

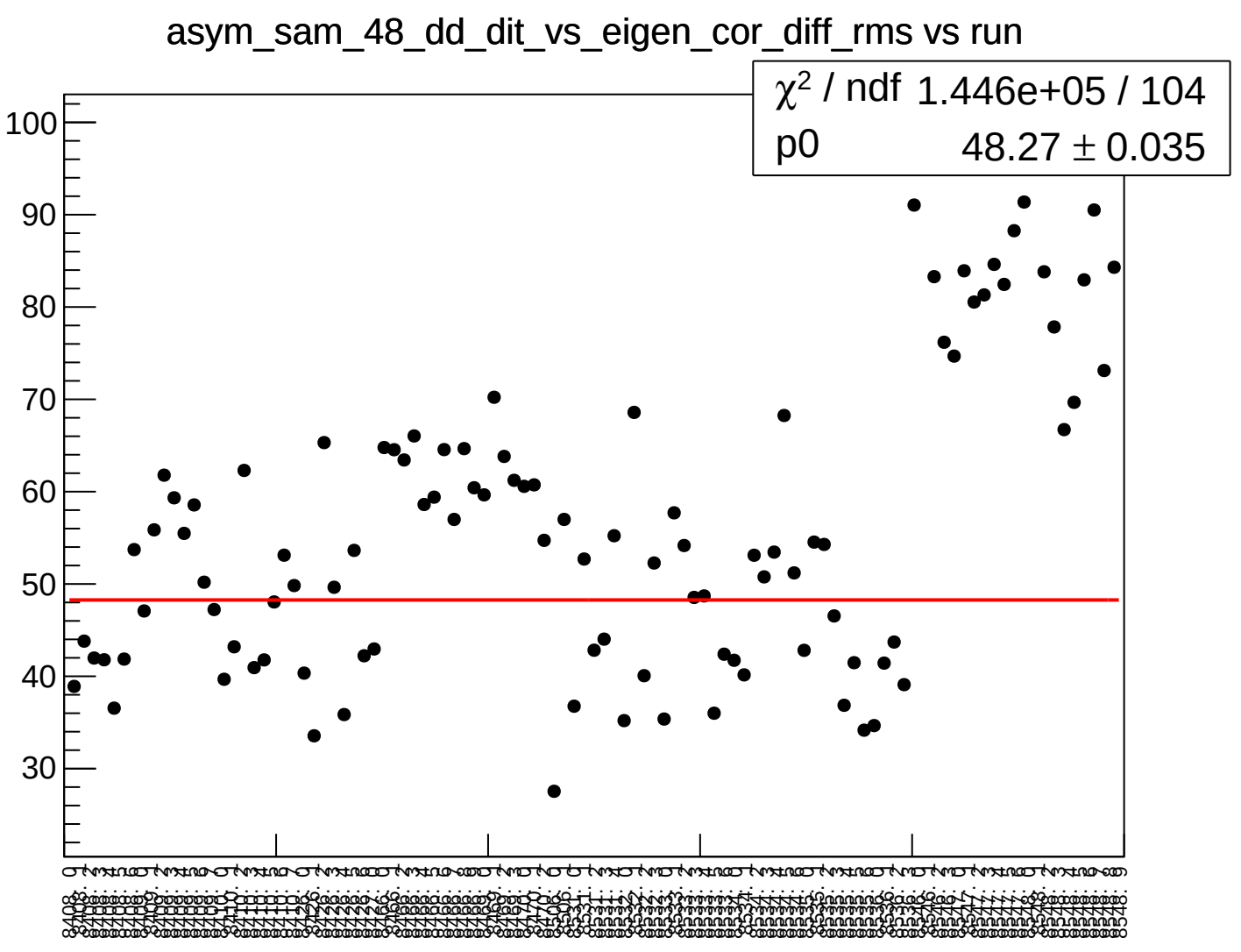

asym_sam_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.318e+06 / 104
p0 1.21e−10 ± 1.418e−13
0.1
0.08
0.06
0.04
0.02
0

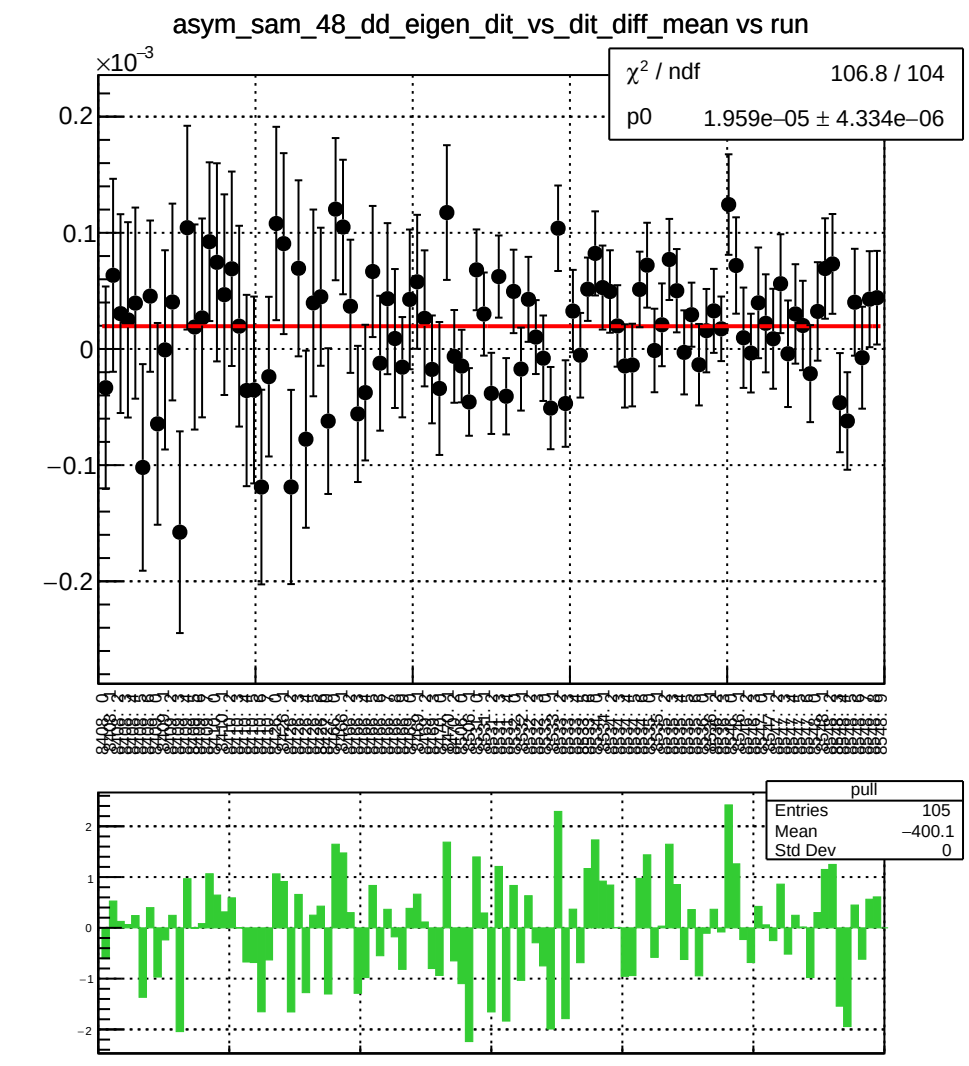

asym_sam_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 116.5 / 104
p0 −0.1623 ± 0.0495
pull
Entries 105
Mean 79.52
Std Dev 46.16
pull1D
Entries 105
Mean −0.02912
Std Dev 1.053

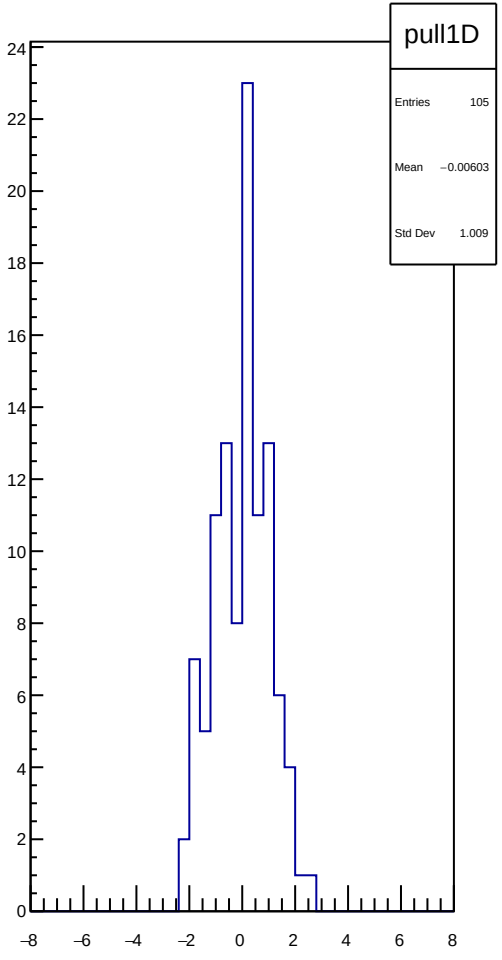

asym_sam_48_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.446e+05 / 104
p0 48.27 ± 0.035
100
90
80
70
60
50
40
30

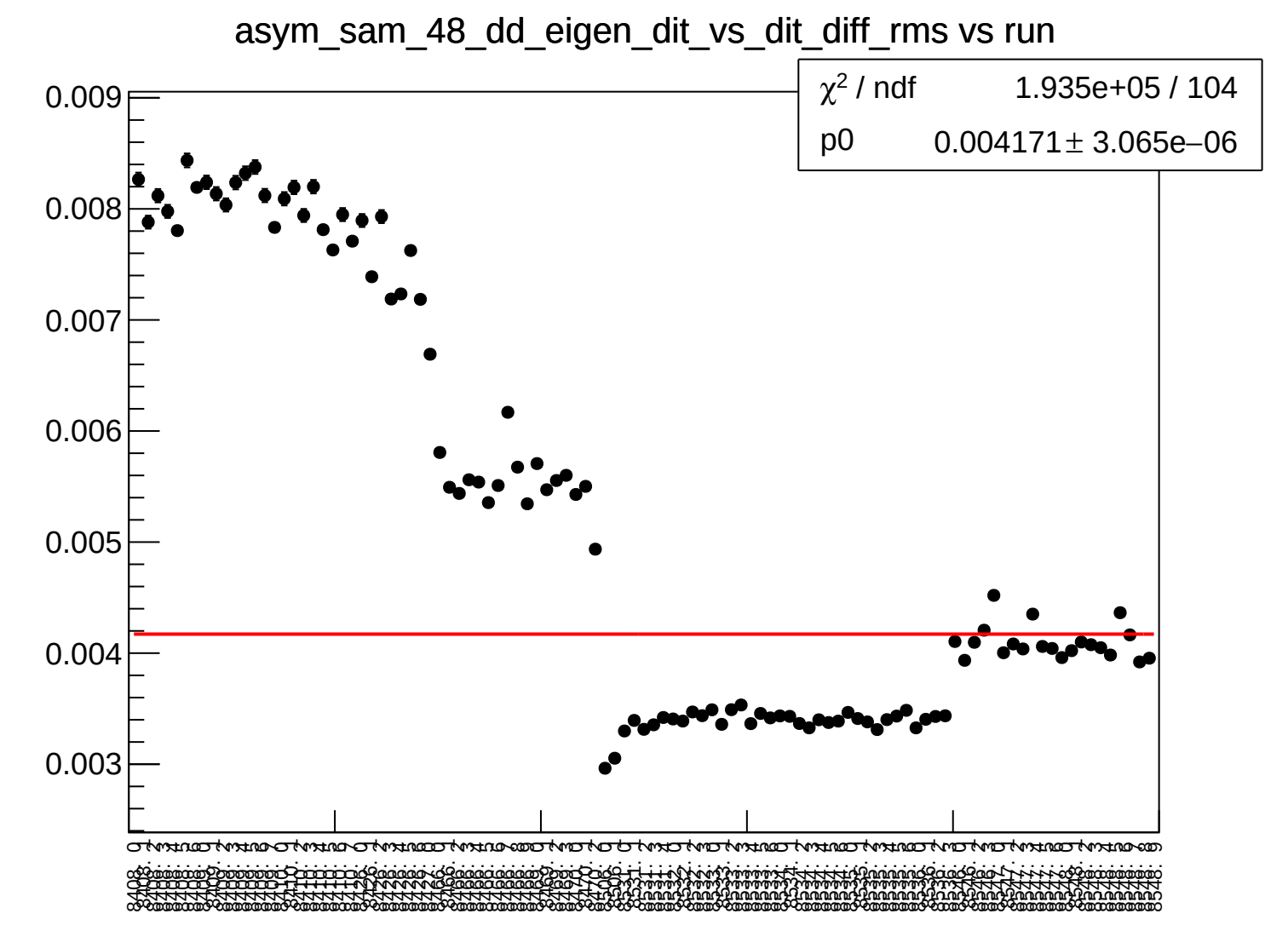

asym_sam_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 116.5 / 104
p0 −0.1623 ± 0.0495
pull
Entries 105
Mean 79.52
Std Dev 46.16

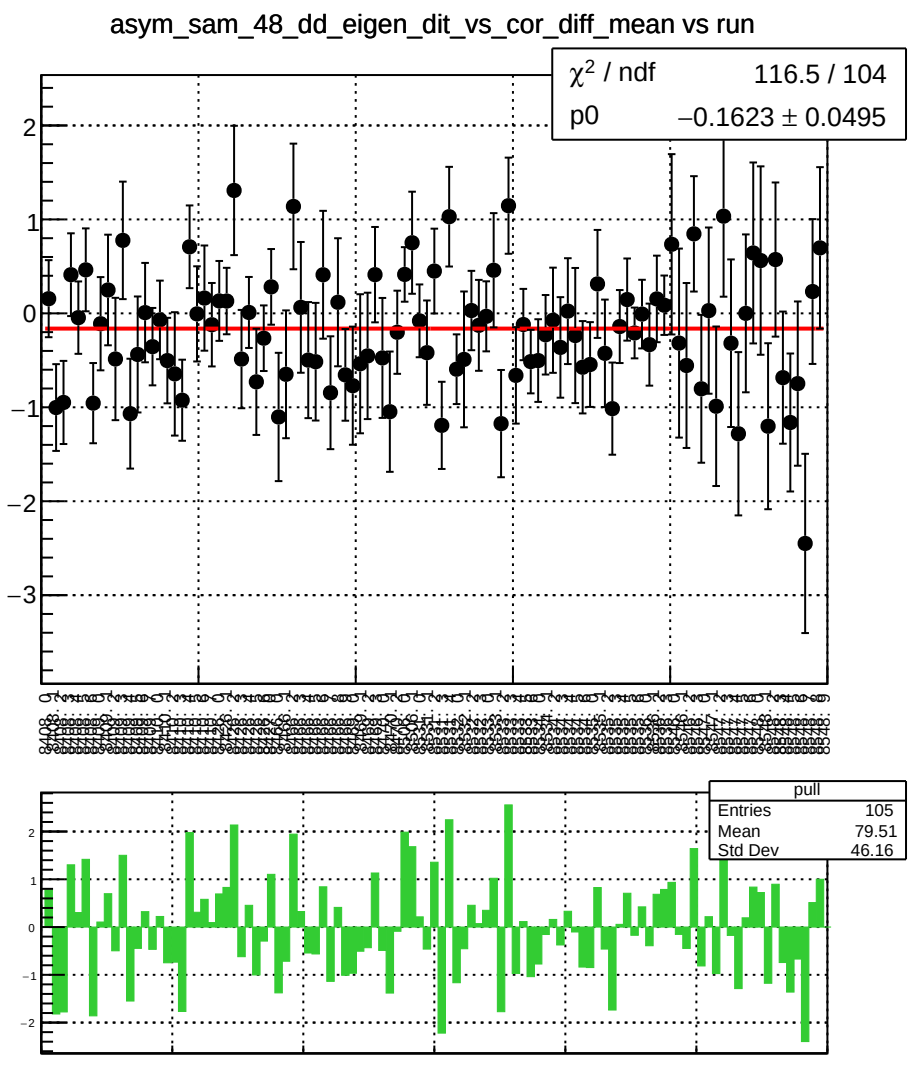

pull1D
Entries 105
Mean −0.02912
Std Dev 1.053

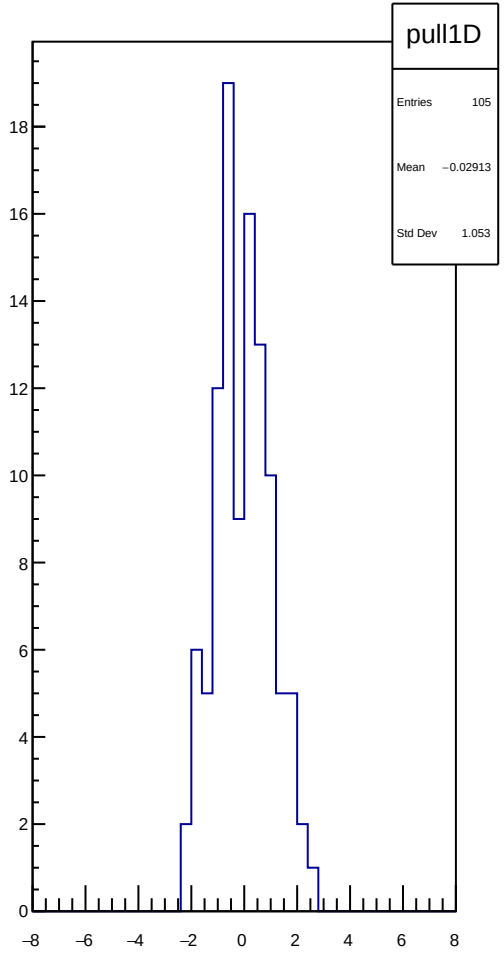

asym_sam_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.446e+05 / 104
p0 48.27 ± 0.035
100
90
80
70
60
50
40
30

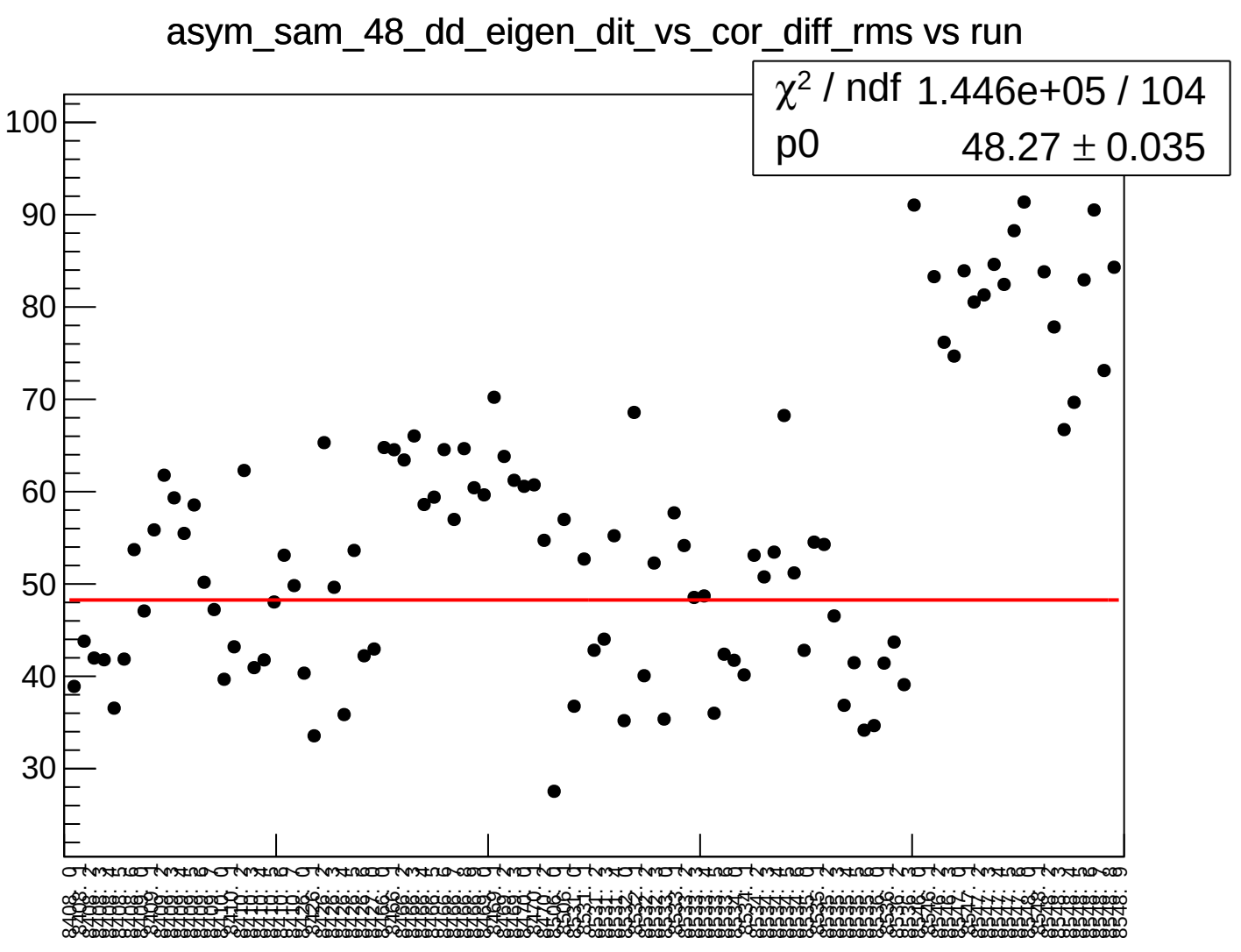

asym_sam_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 106.8 / 104
p0 1.959e−05 ± 4.334e−06
0.2
0.1
0
−0.1
−0.2
pull
Entries 105
Mean −400.1
Std Dev 0
2
1
0
−1
−2

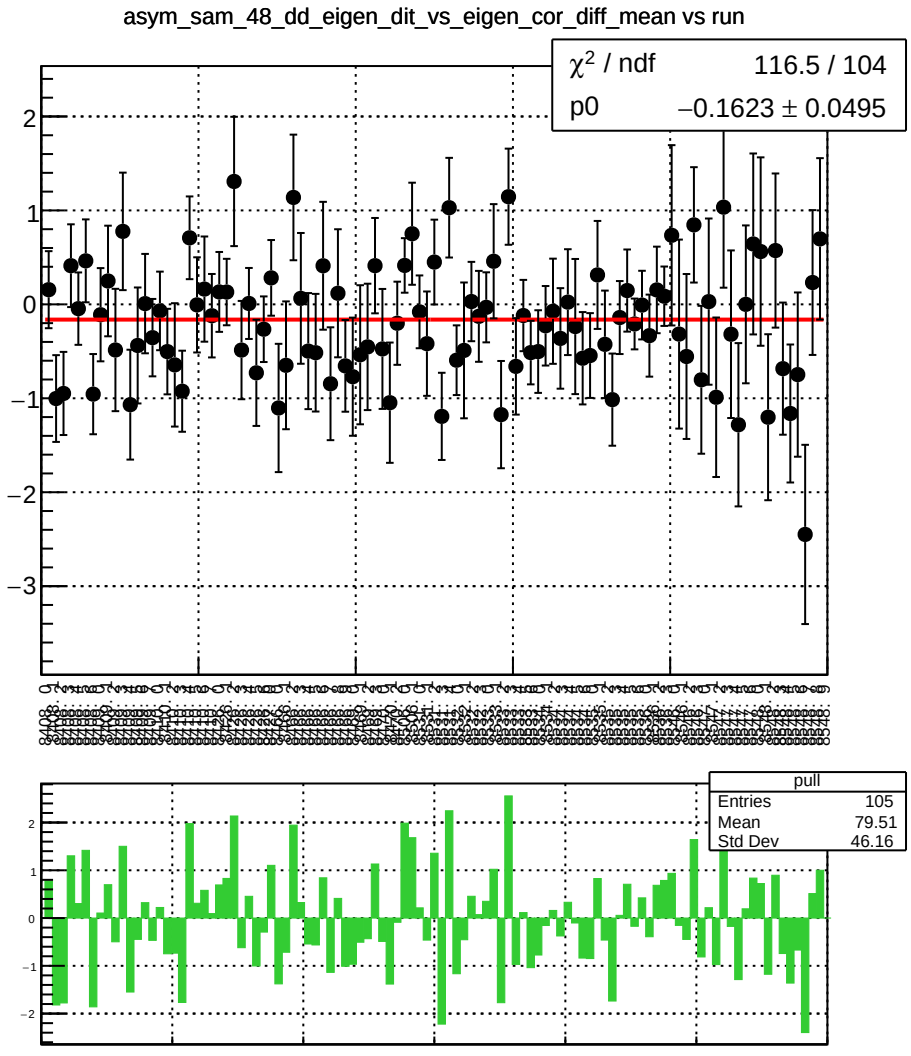

pull1D
Entries 105
Mean −0.00603
Std Dev 1.009
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

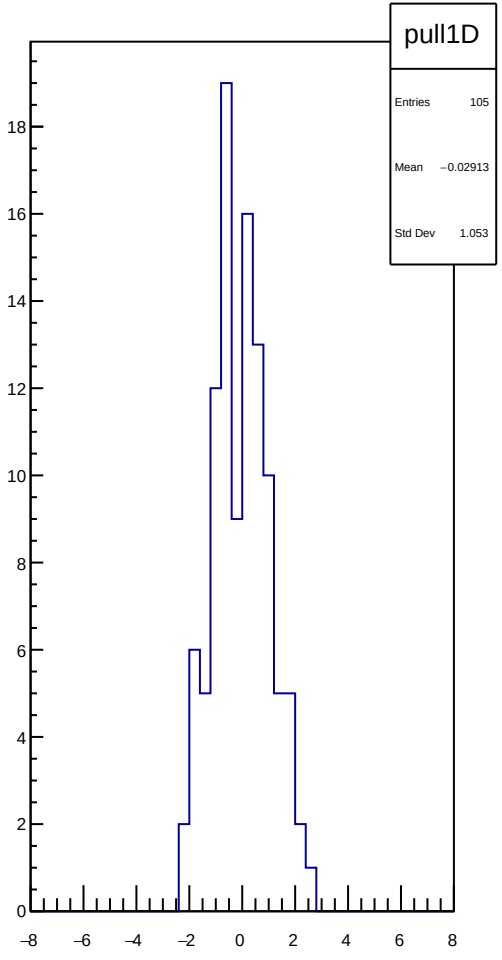

asym_sam_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.935e+05 / 104
p0 0.004171 ± 3.065e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003

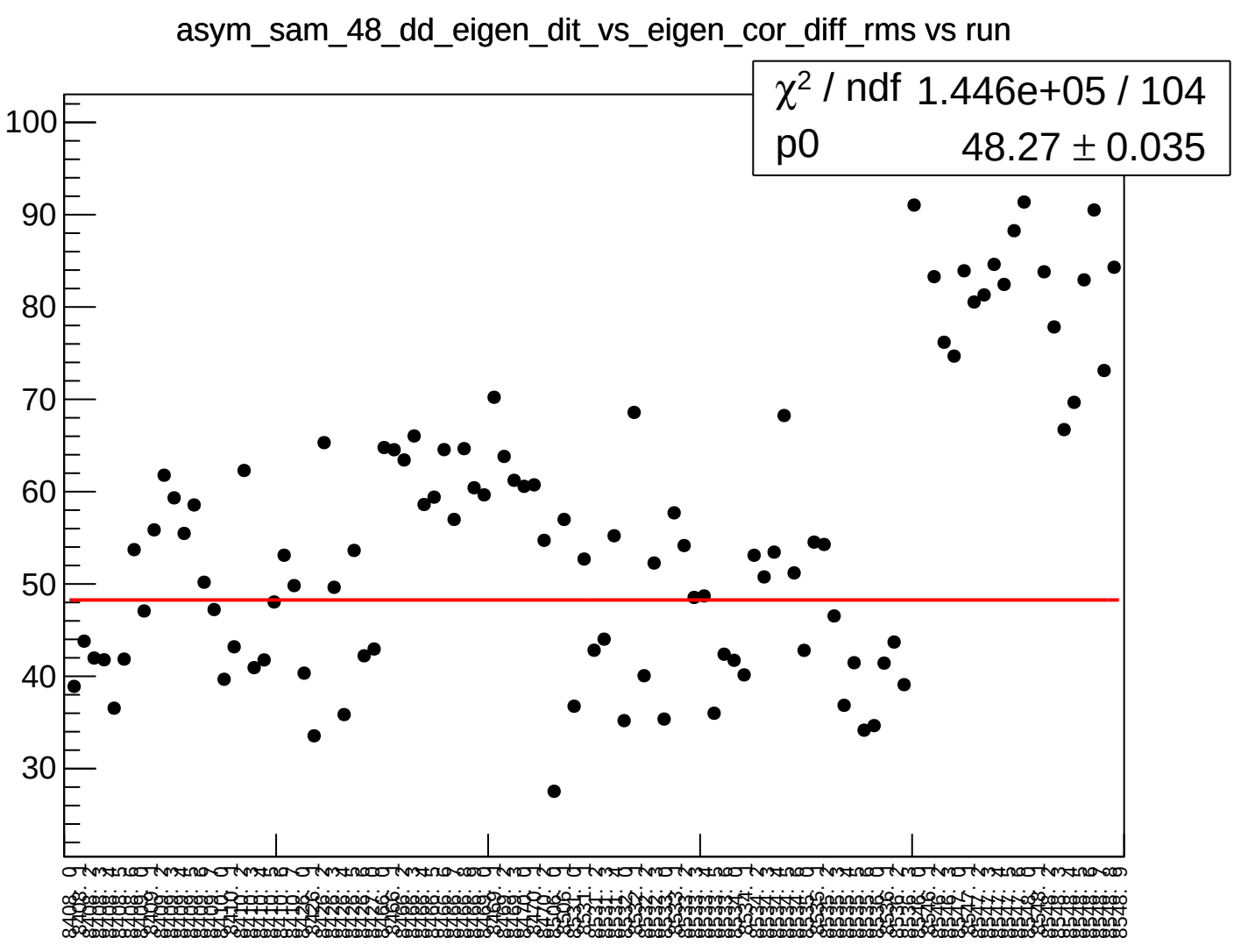

asym_sam_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 116.5 / 104
p0 −0.1623 ± 0.0495
pull
Entries 105
Mean 79.51
Std Dev 46.16

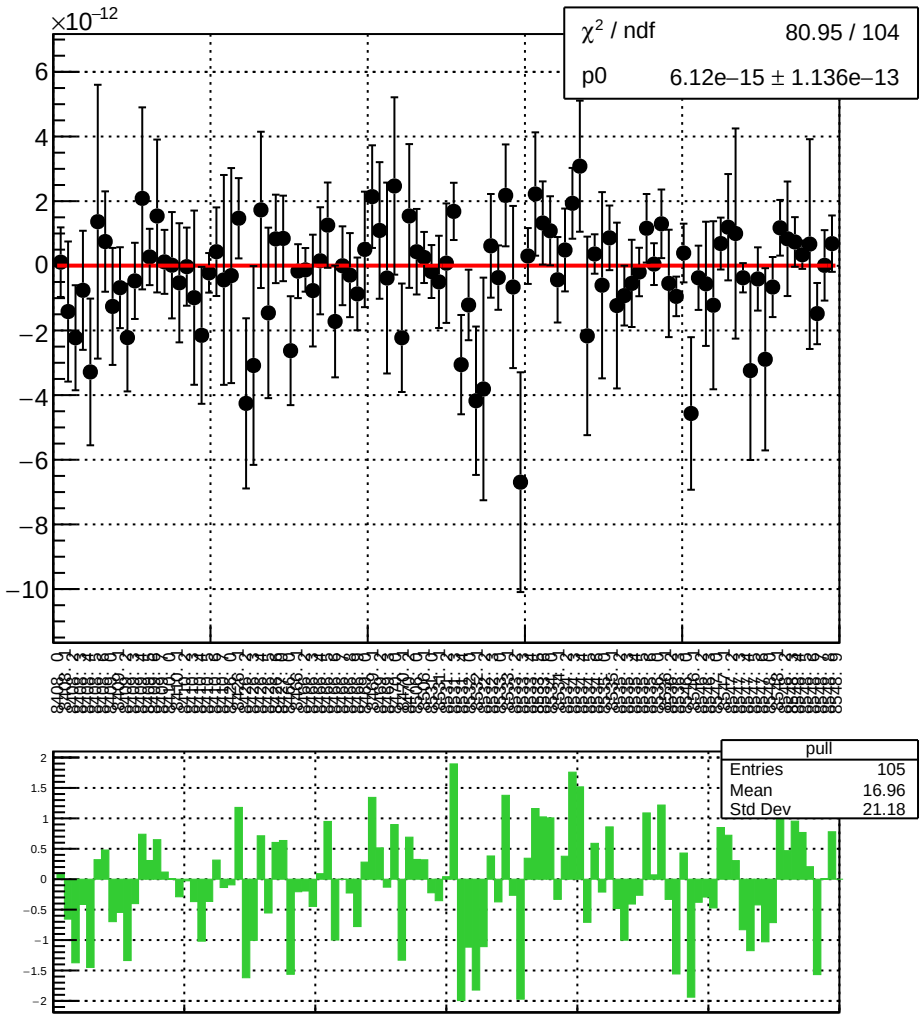

pull1D
Entries 105
Mean −0.02913
Std Dev 1.053

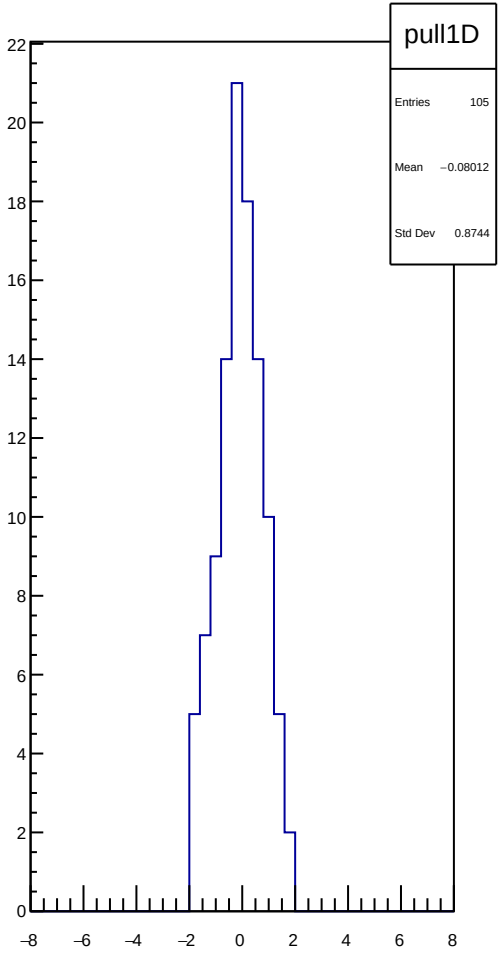

asym_sam_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.446e+05 / 104
p0 48.27 ± 0.035
100
90
80
70
60
50
40
30

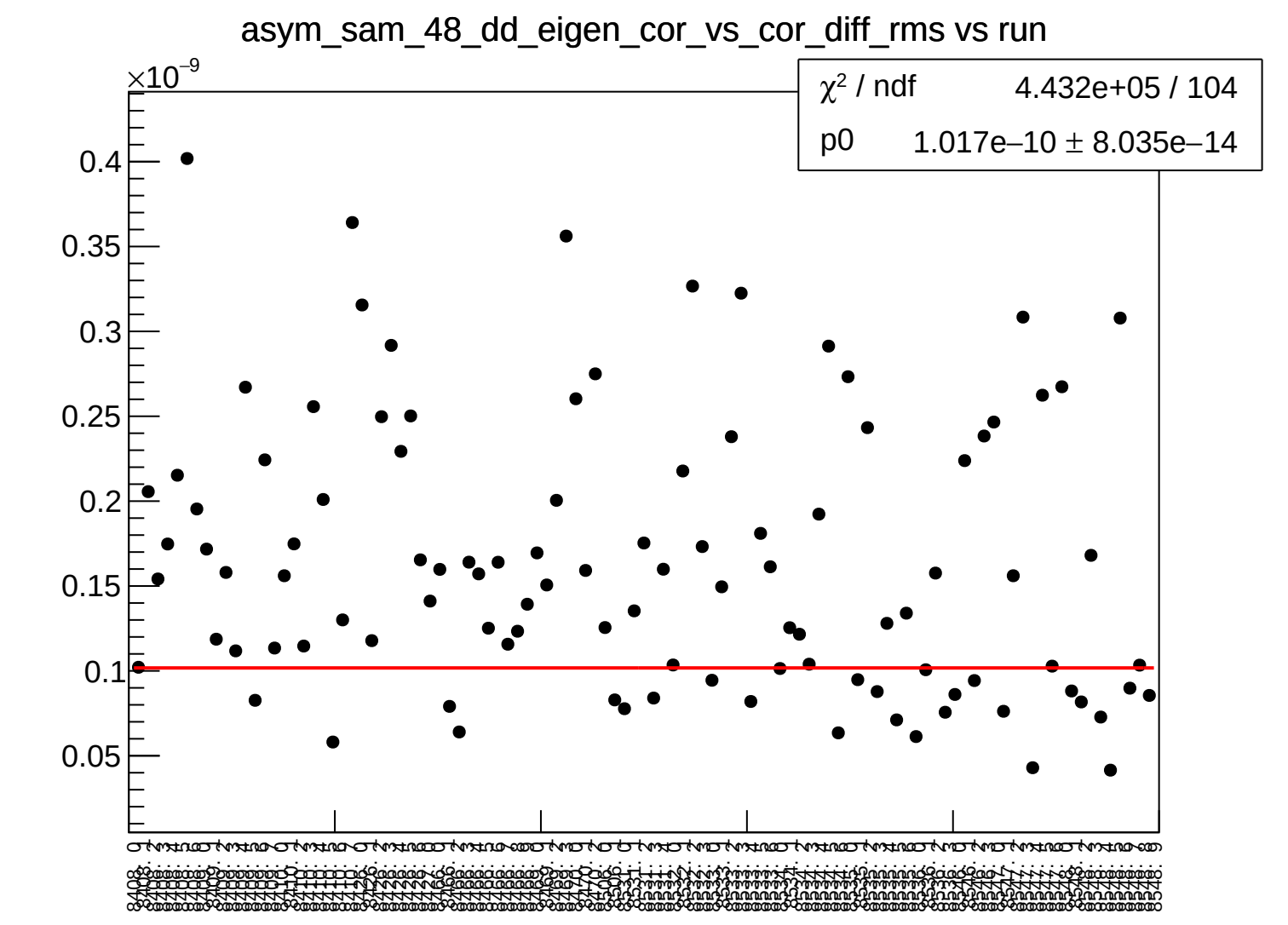

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 116.5 / 104
p0 −0.1623 ± 0.0495
pull
Entries 105
Mean 79.51
Std Dev 46.16

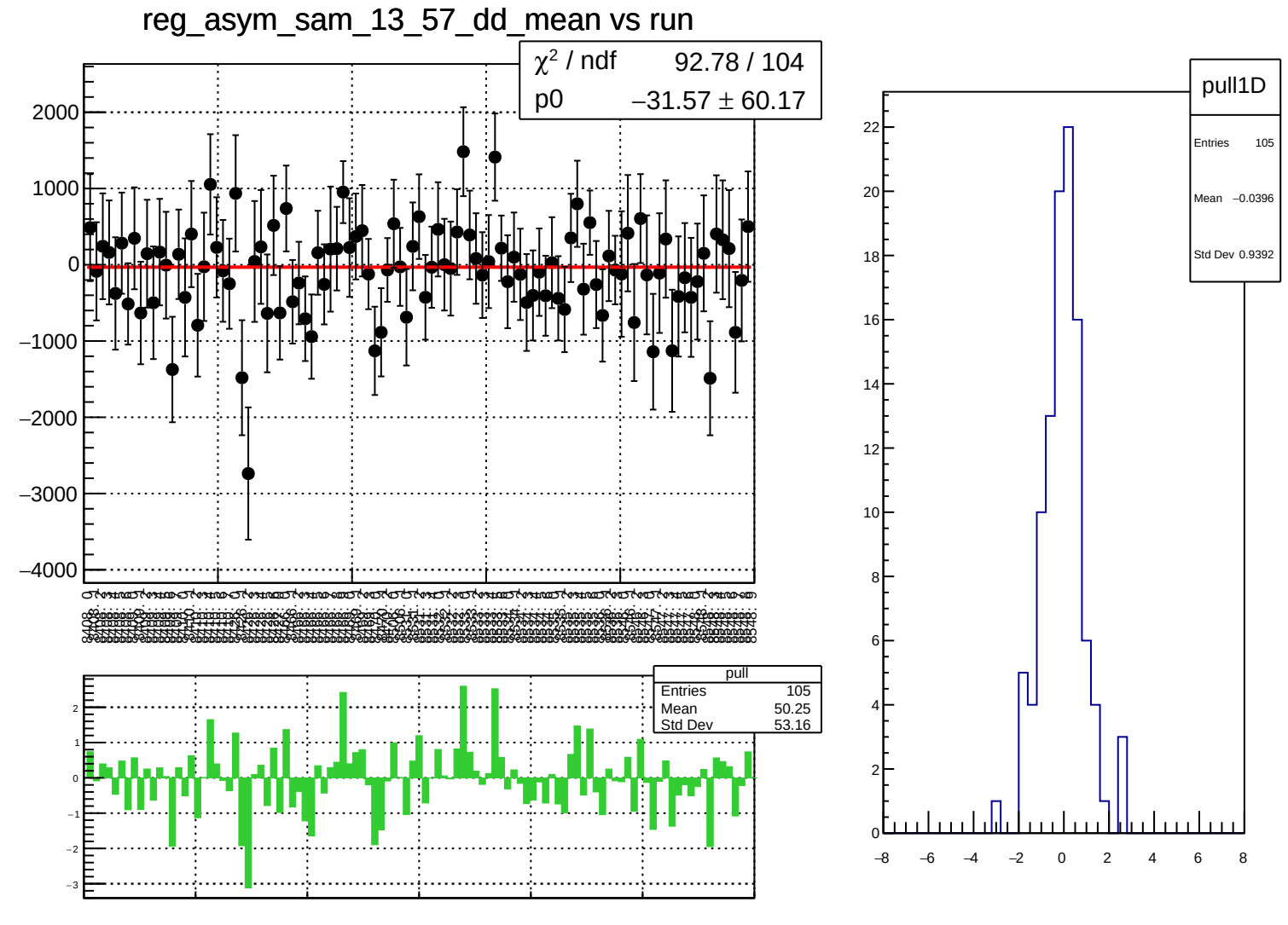

pull1D
Entries 105
Mean −0.02913
Std Dev 1.053

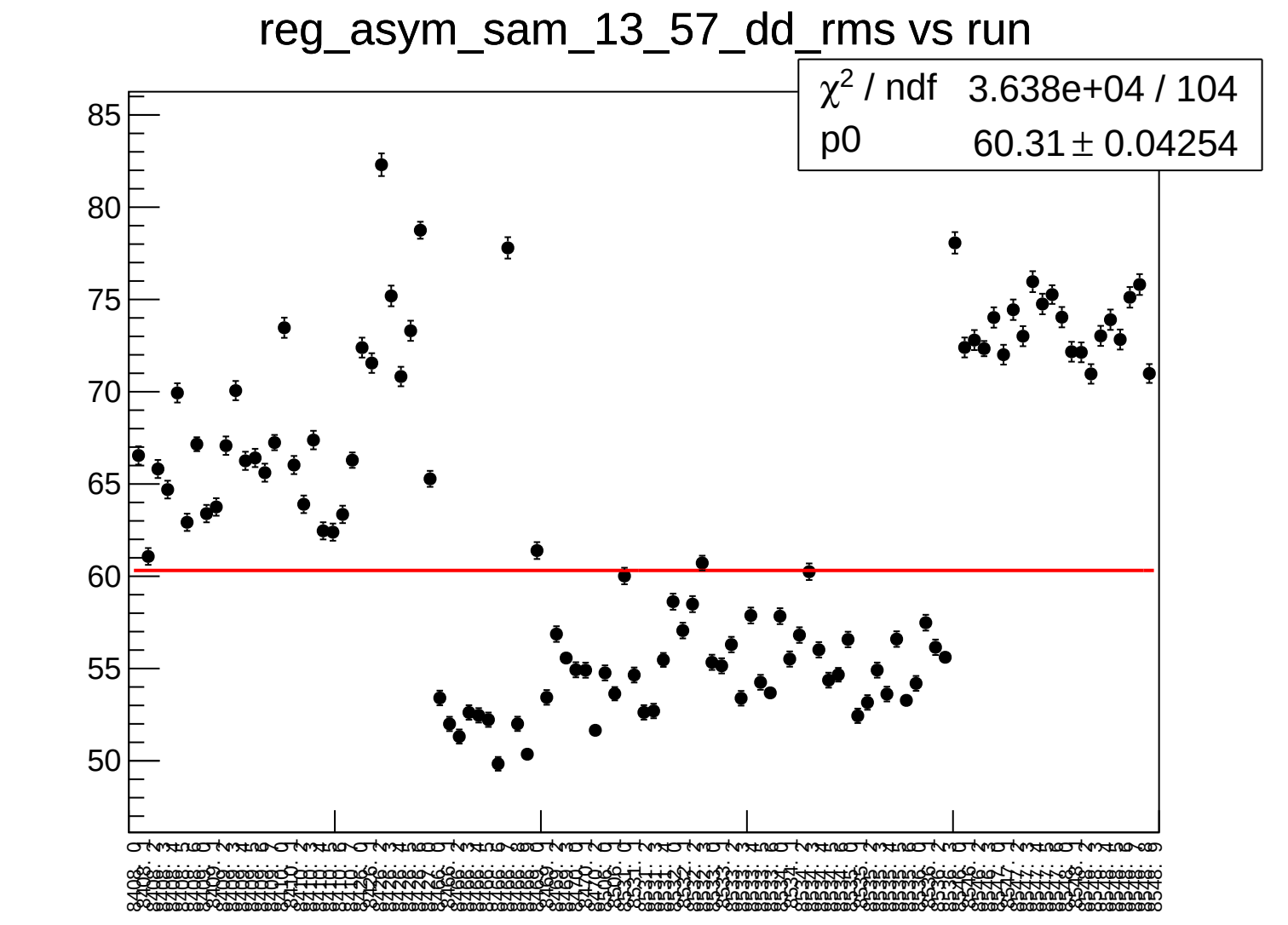

asym_sam_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.446e+05 / 104
p0 48.27 ± 0.035
100
90
80
70
60
50
40
30

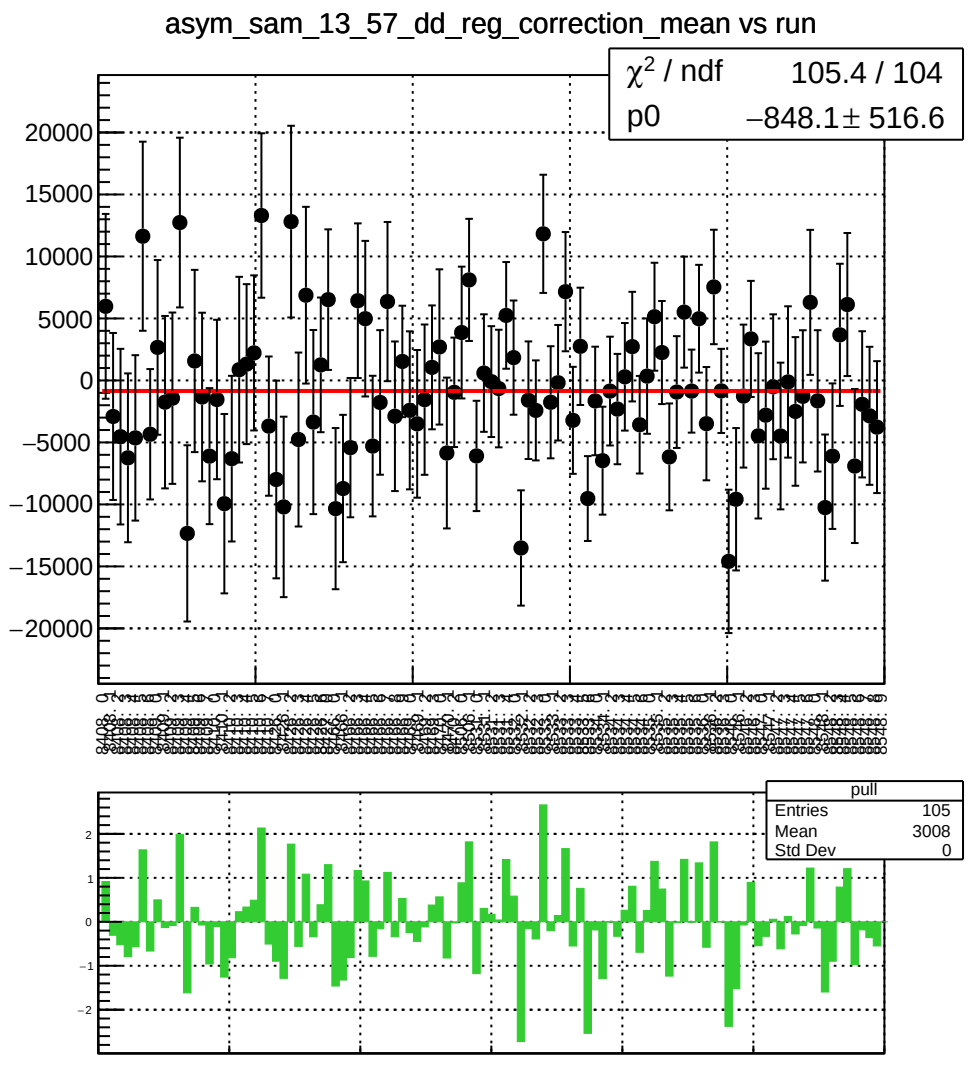

asym_sam_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 80.95 / 104
p0 6.12e−15 ± 1.136e−13
pull
Entries 105
Mean 16.96
Std Dev 21.18

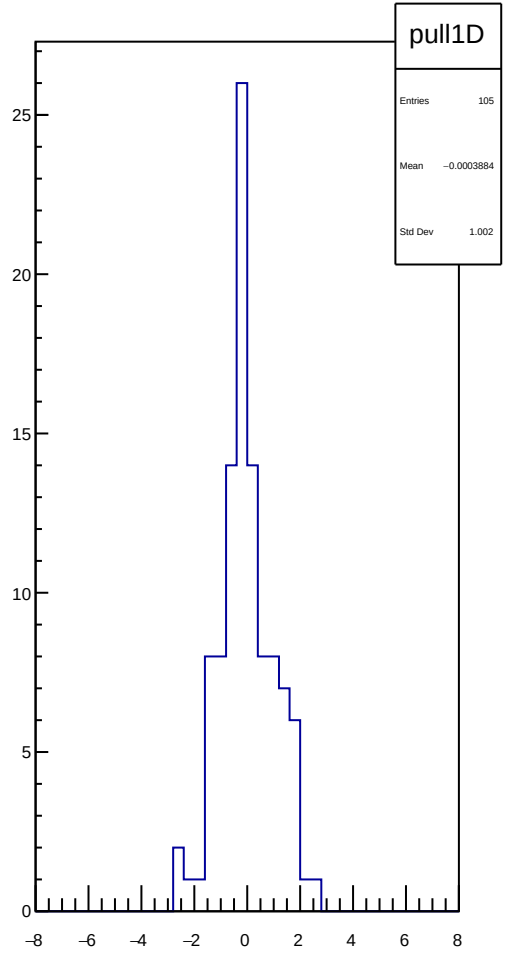

pull1D
Entries 105
Mean −0.08012
Std Dev 0.8744

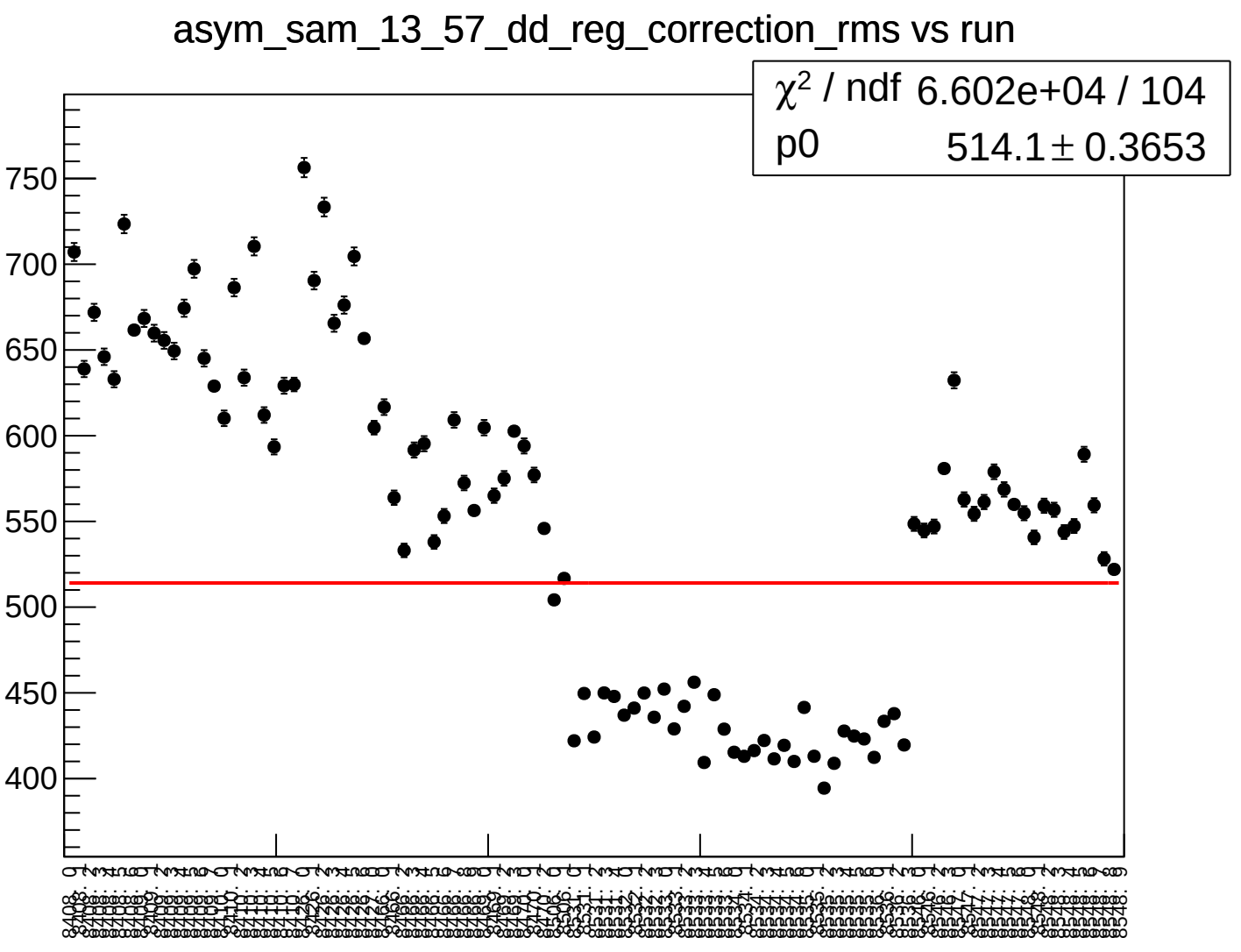

asym_sam_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.432e+05 / 104
p0 1.017e−10 ± 8.035e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

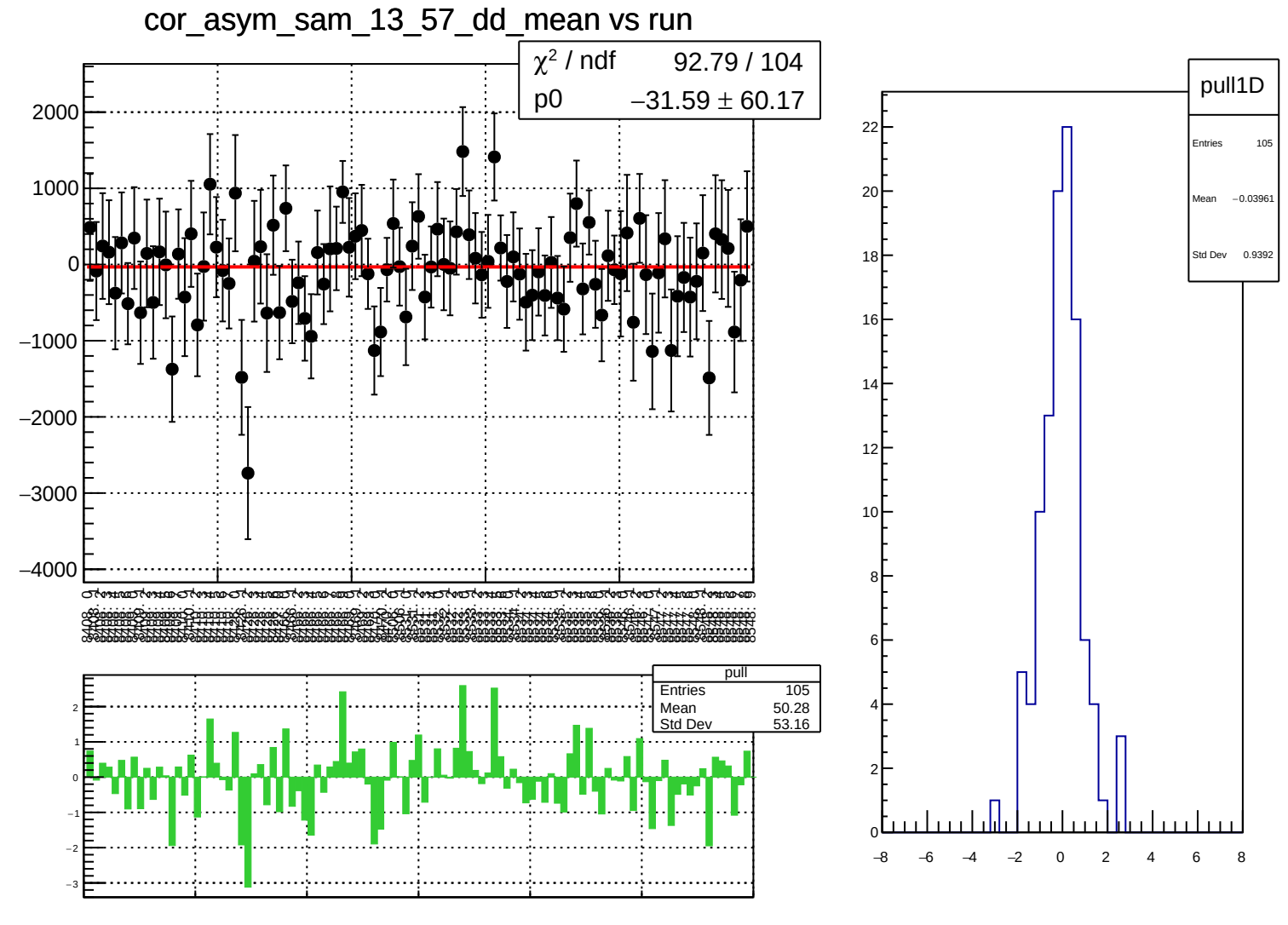

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 92.78 / 104
p0 −31.57 ± 60.17
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 105
Mean 50.25
Std Dev 53.16
2
1
0
−1
−2
−3
pull1D
Entries 105
Mean −0.0396
Std Dev 0.9392
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

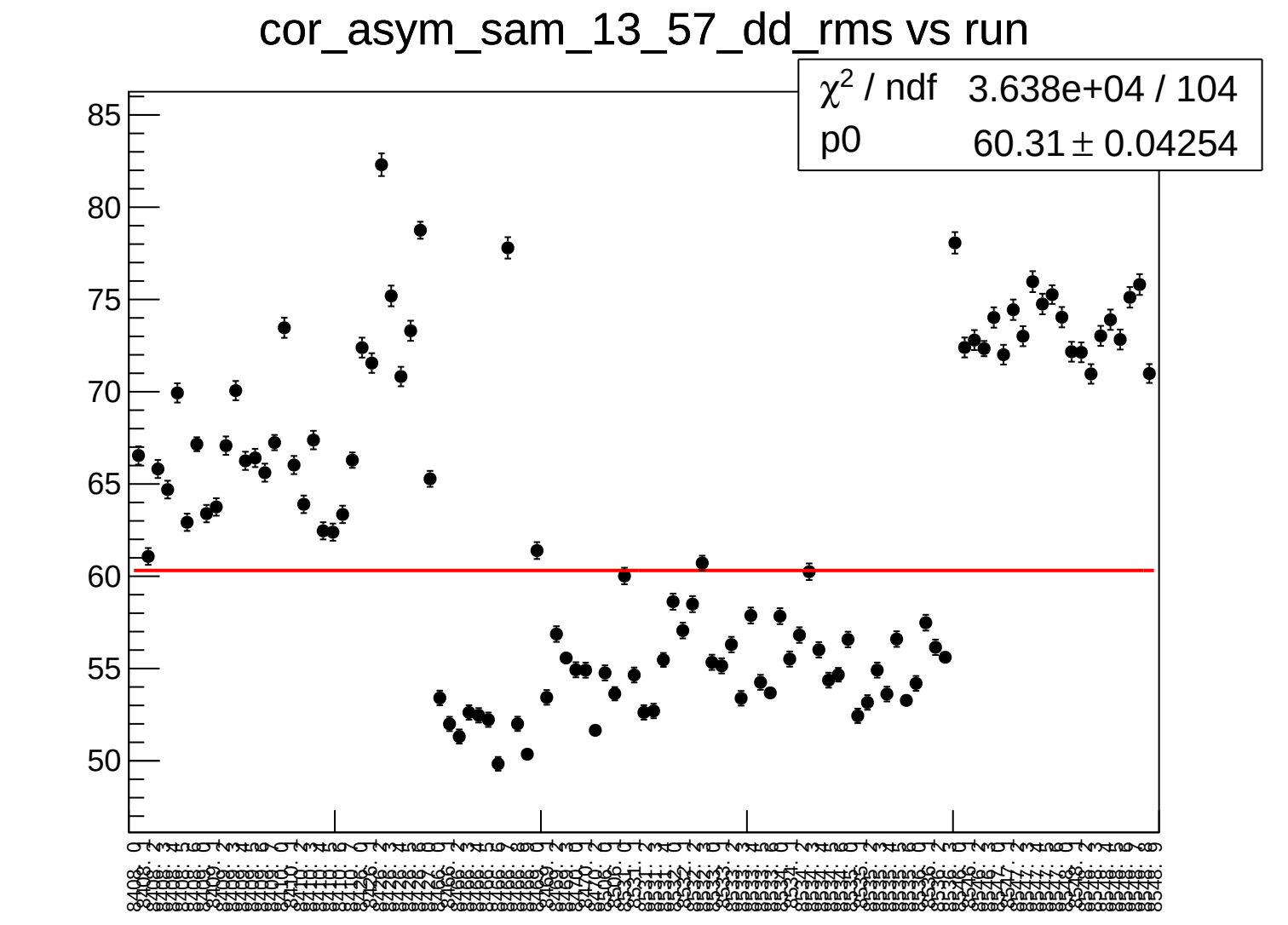

reg_asym_sam_13_57_dd_rms vs run
χ^2 / ndf 3.638e+04 / 104
p0 60.31 ± 0.04254
85
80
75
70
65
60
55
50

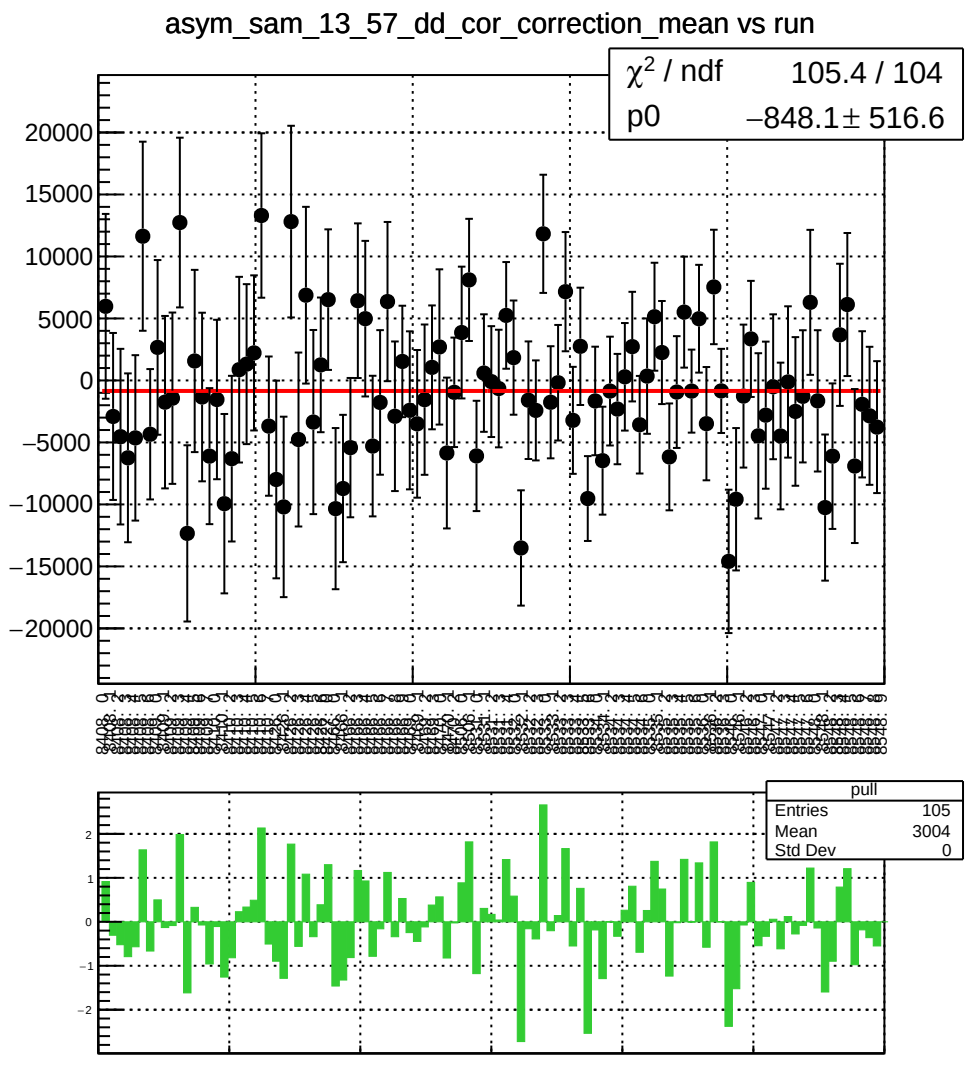

asym_sam_13_57_dd_reg_correction_mean vs run
χ² / ndf 105.4 / 104
p0 −848.1 ± 516.6
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 105
Mean 3008
Std Dev 0
2
1
0
−1
−2

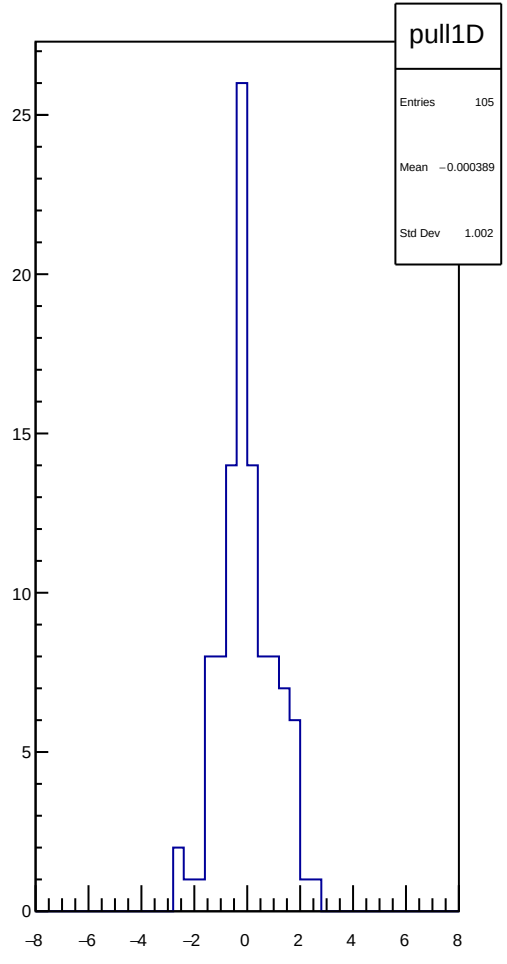

pull1D
Entries 105
Mean −0.0003884
Std Dev 1.002
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

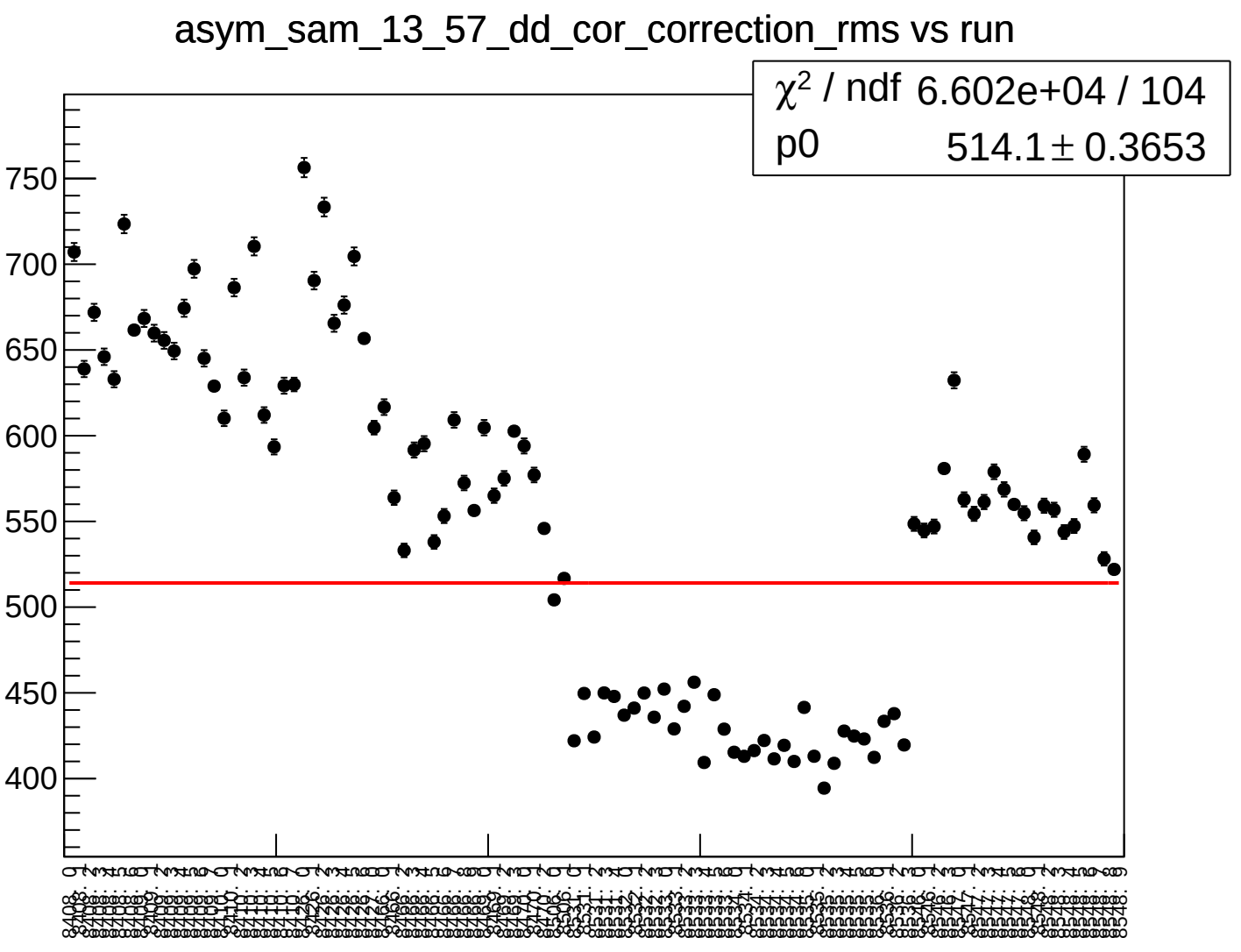

asym_sam_13_57_dd_reg_correction_rms vs run
χ² / ndf 6.602e+04 / 104
p0 514.1 ± 0.3653
750
700
650
600
550
500
450
400

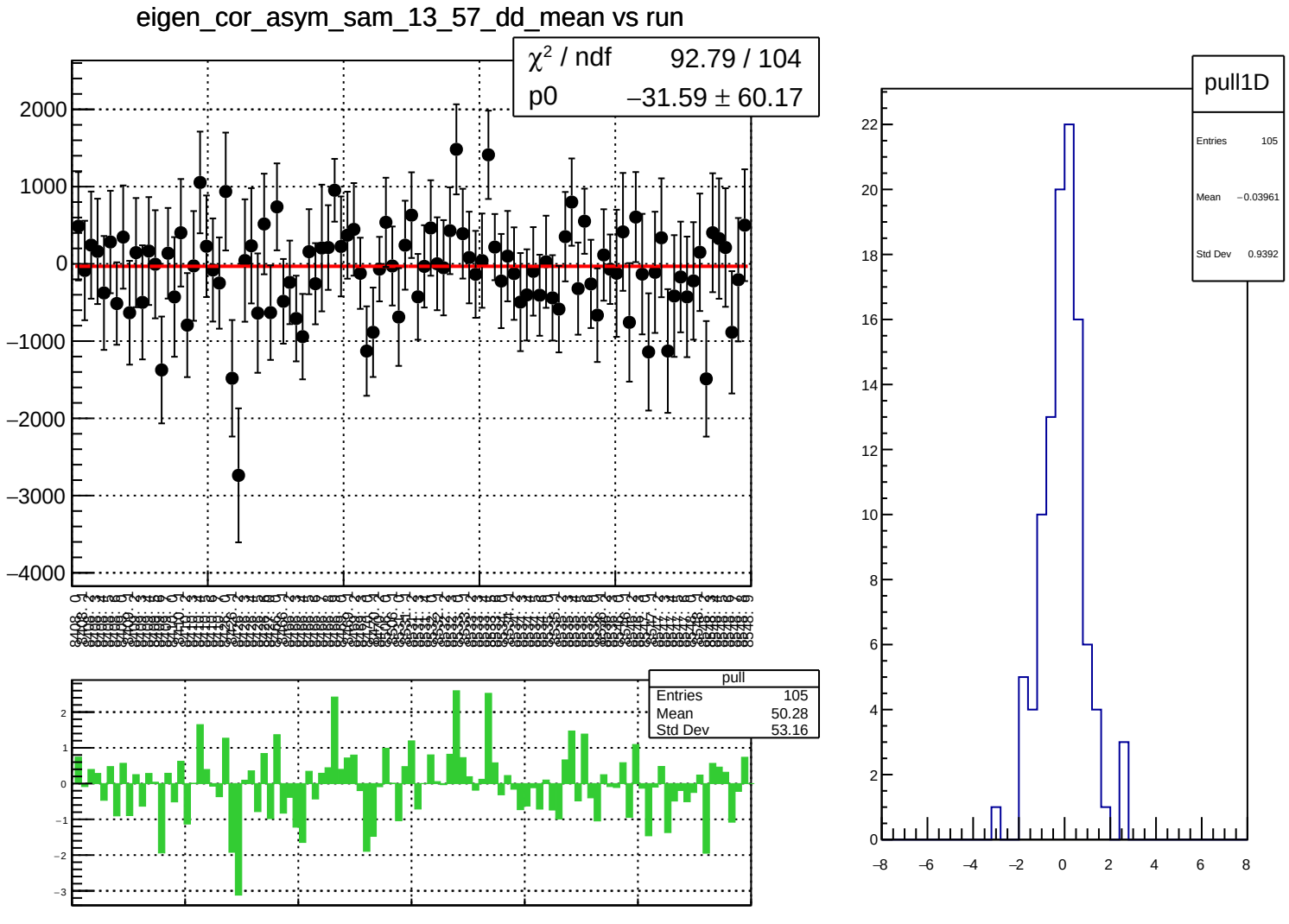

cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 92.79 / 104
p0 −31.59 ± 60.17
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 105
Mean 50.28
Std Dev 53.16
2
1
0
−1
−2
−3
pull1D
Entries 105
Mean −0.03961
Std Dev 0.9392
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

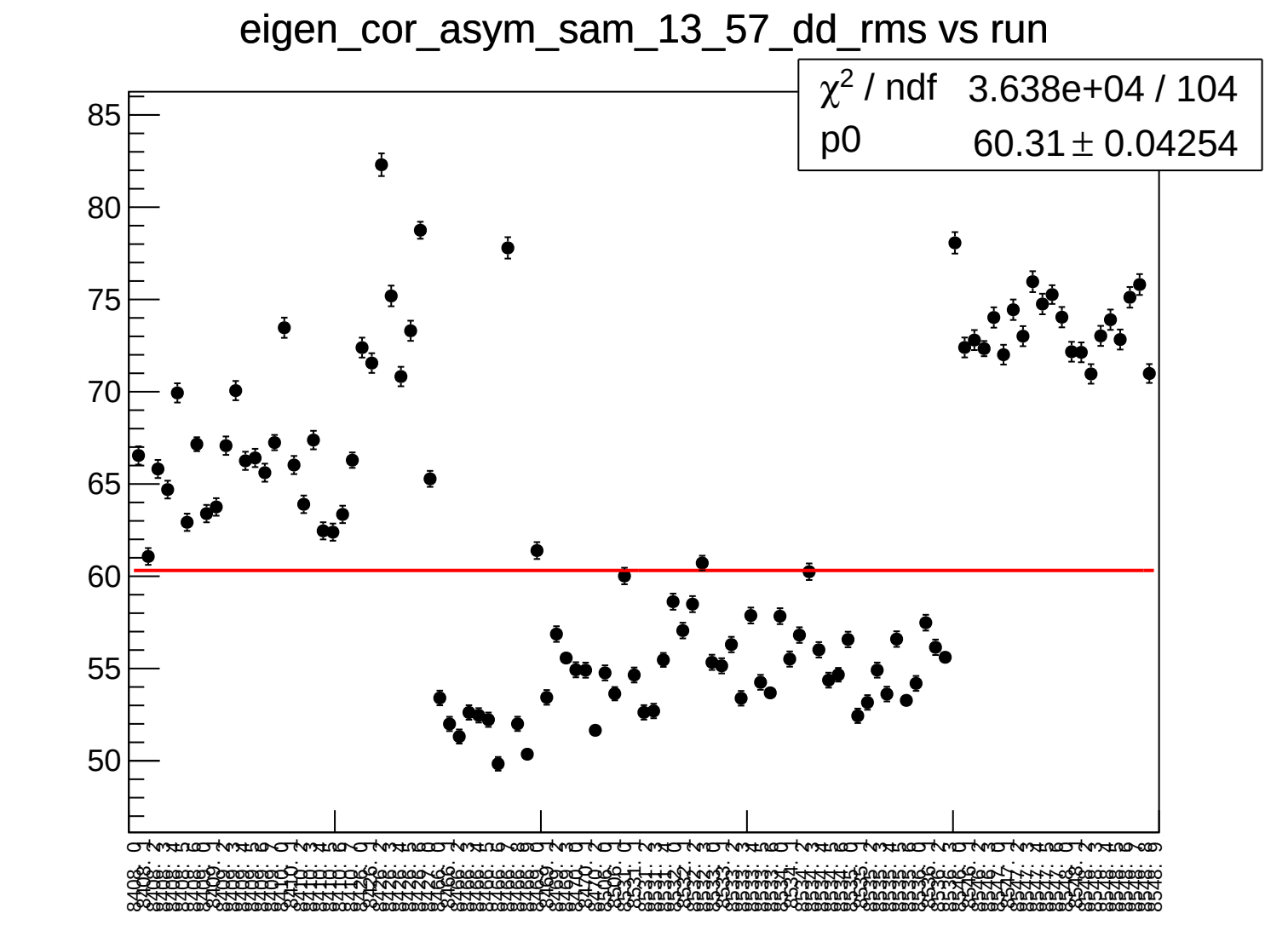

cor_asym_sam_13_57_dd_rms vs run
χ^2 / ndf 3.638e+04 / 104
p0 60.31 ± 0.04254
85
80
75
70
65
60
55
50

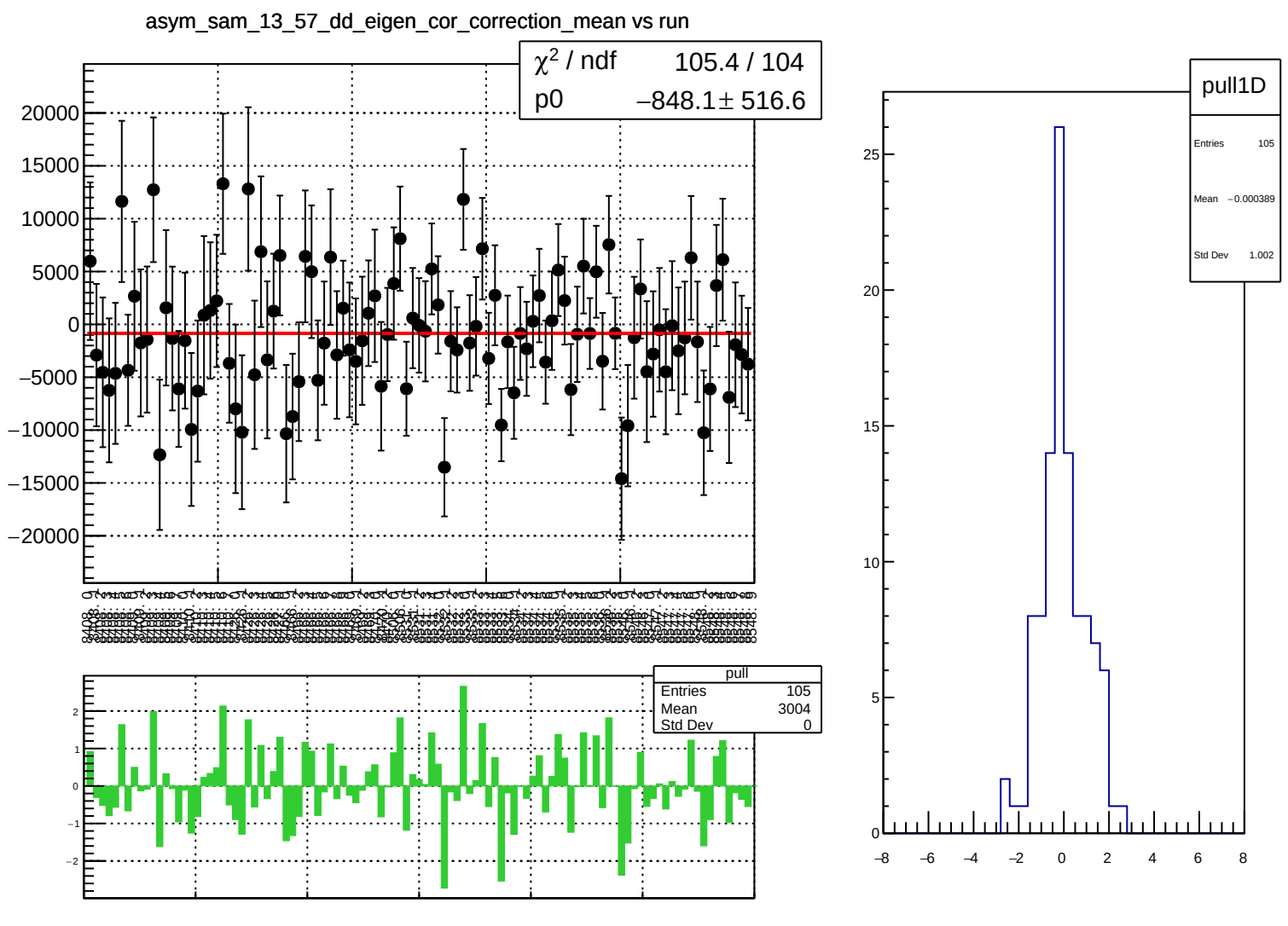

asym_sam_13_57_dd_cor_correction_mean vs run
χ² / ndf 105.4 / 104
p0 −848.1 ± 516.6
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 105
Mean 3004
Std Dev 0
2
1
0
−1
−2

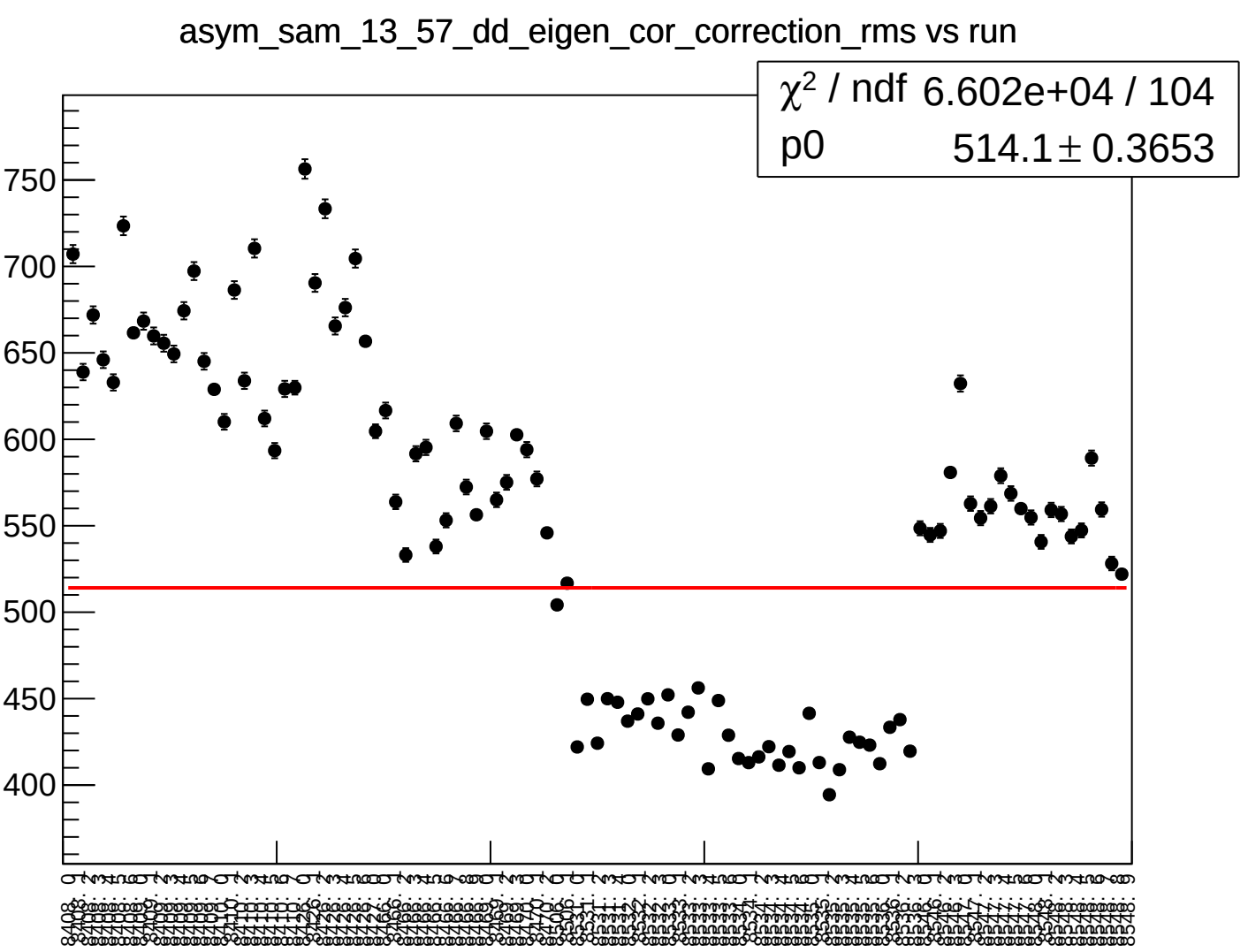

pull1D
Entries 105
Mean −0.000389
Std Dev 1.002
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

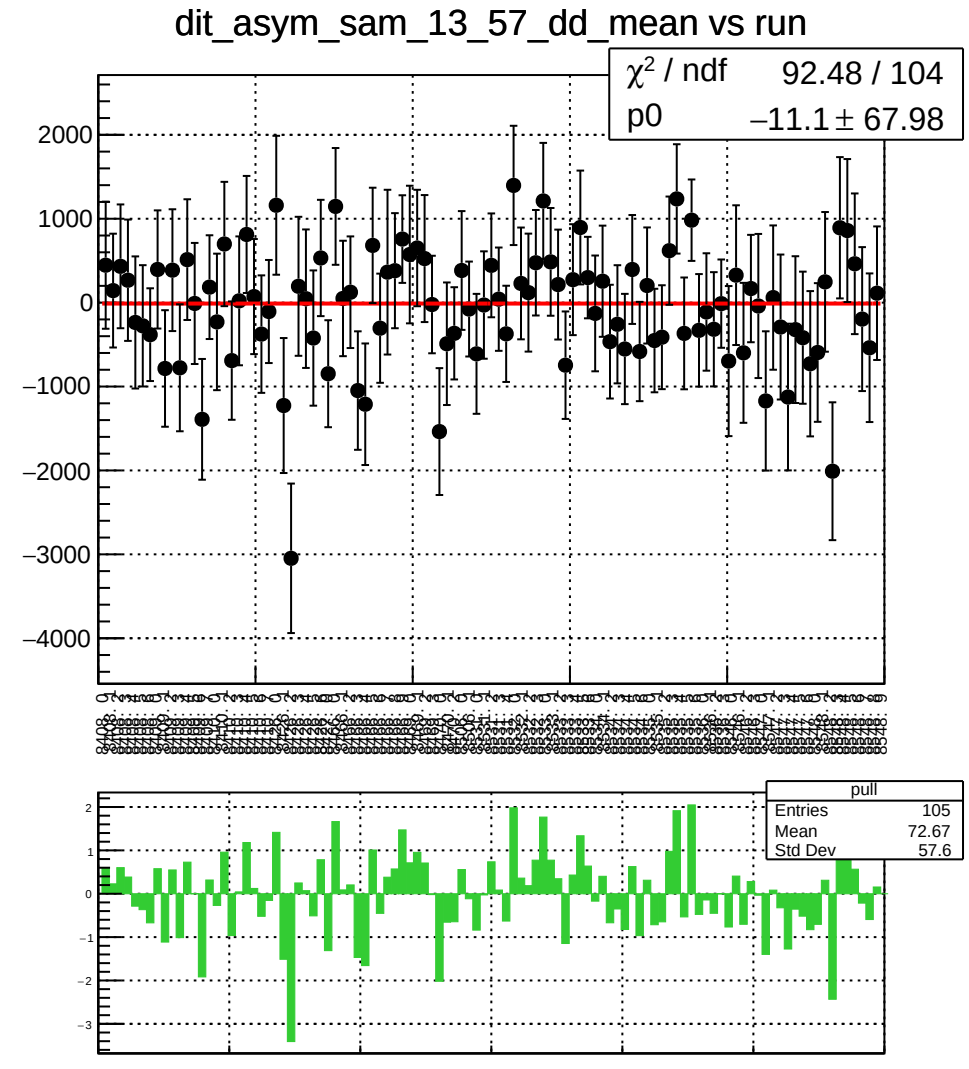

asym_sam_13_57_dd_cor_correction_rms vs run
χ² / ndf 6.602e+04 / 104
p0 514.1 ± 0.3653
750
700
650
600
550
500
450
400

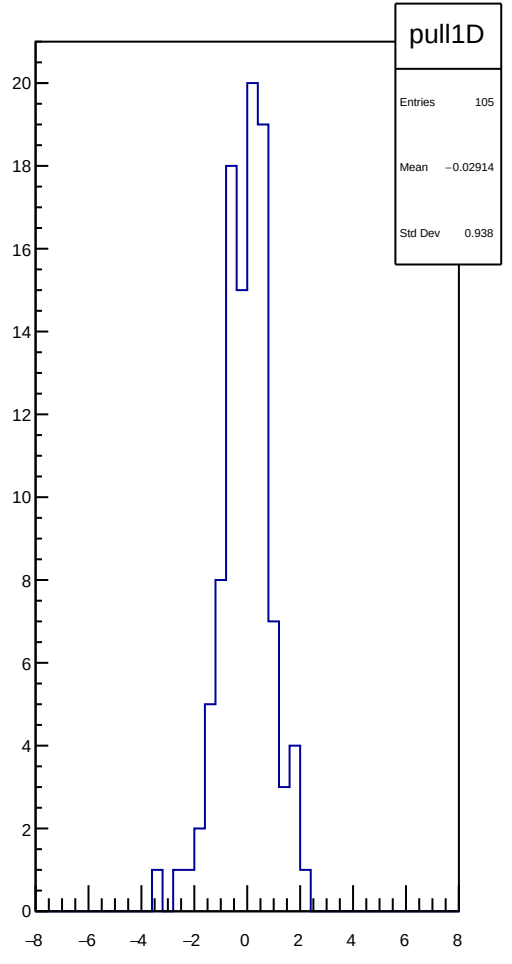

eigen_cor_asym_sam_13_57_dd_mean vs run
χ² / ndf 92.79 / 104
p0 −31.59 ± 60.17
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 105
Mean 50.28
Std Dev 53.16
2
1
0
−1
−2
−3
pull1D
Entries 105
Mean −0.03961
Std Dev 0.9392
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

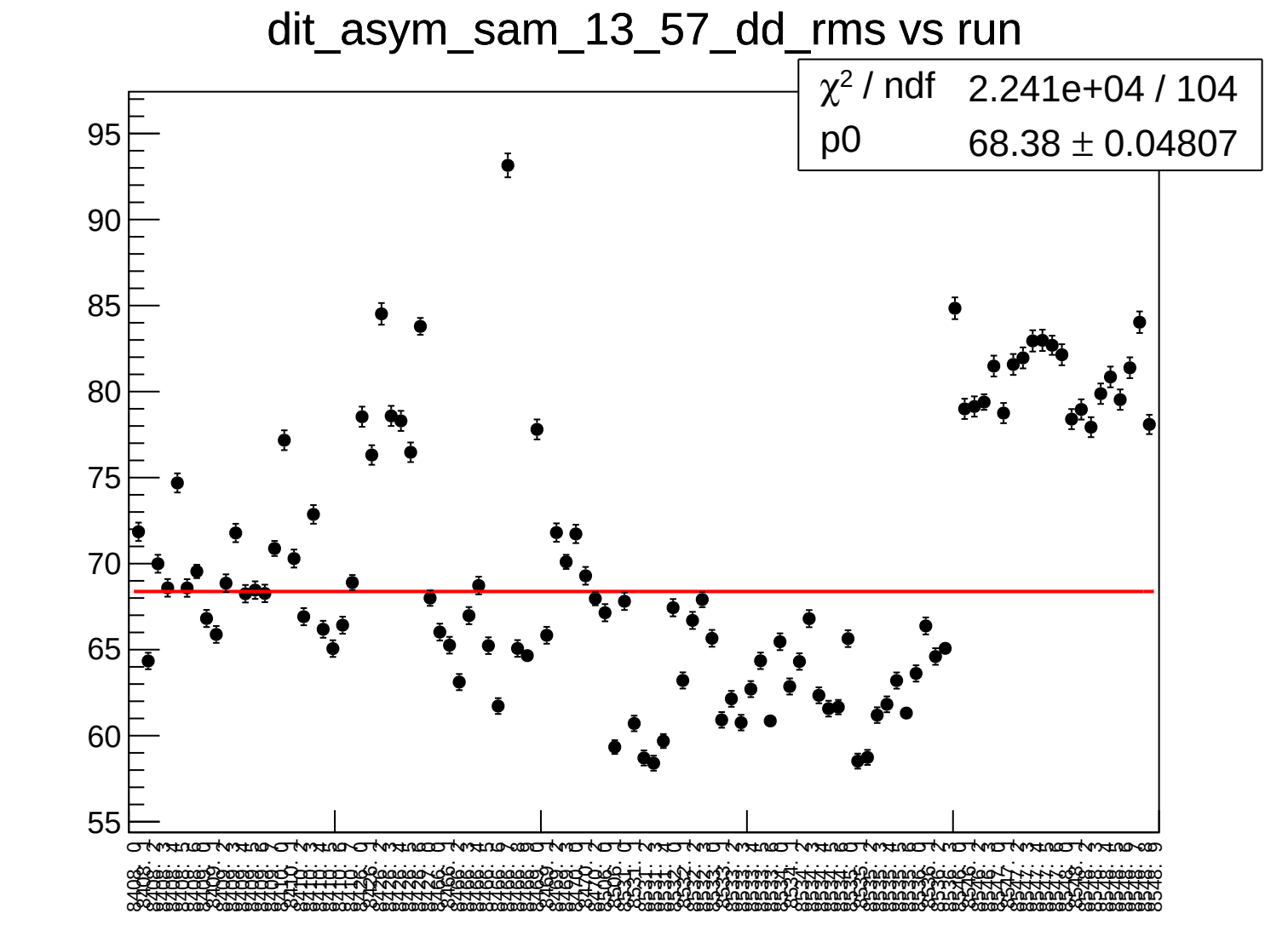

eigen_cor_asym_sam_13_57_dd_rms vs run
χ^2 / ndf 3.638e+04 / 104
p0 60.31 ± 0.04254
85
80
75
70
65
60
55
50

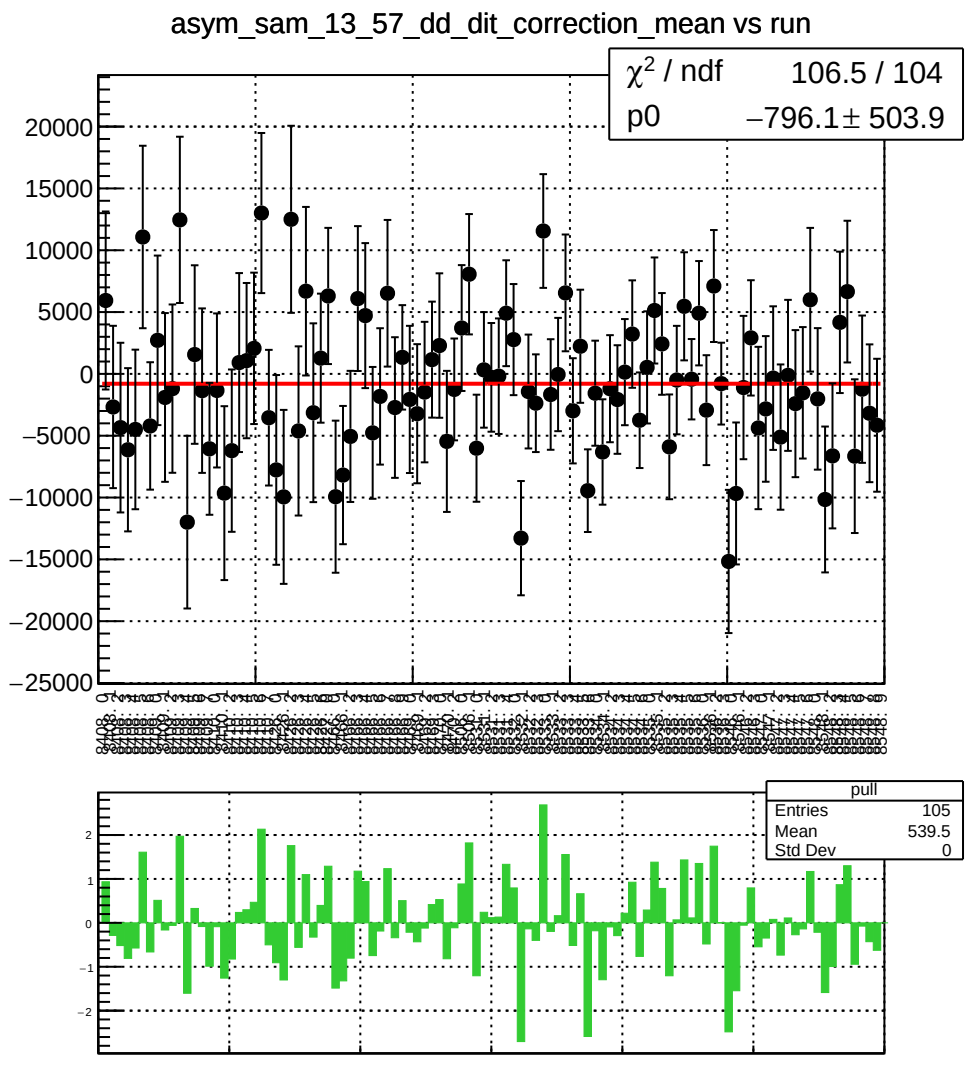

asym_sam_13_57_dd_eigen_cor_correction_mean vs run
χ² / ndf 105.4 / 104
p0 −848.1 ± 516.6
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 105
Mean 3004
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.000389
Std Dev 1.002
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

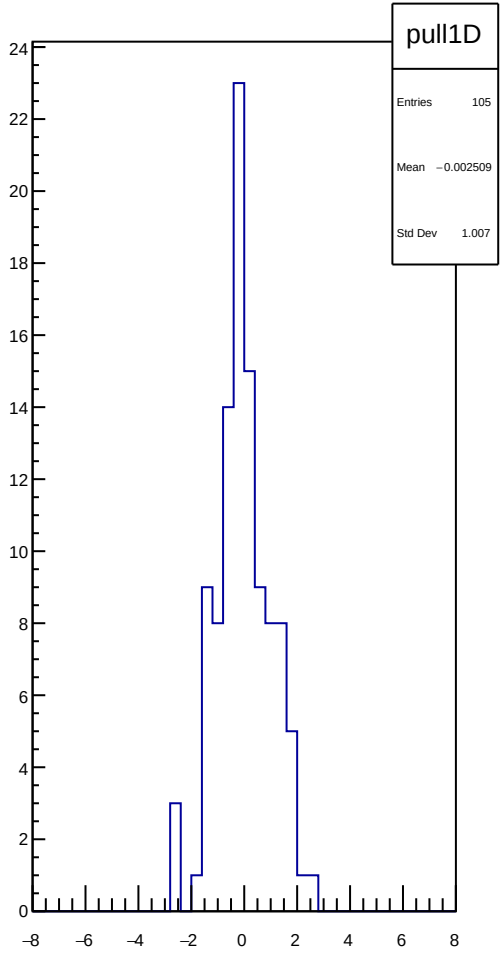

asym_sam_13_57_dd_eigen_cor_correction_rms vs run
χ² / ndf 6.602e+04 / 104
p0 514.1 ± 0.3653
750
700
650
600
550
500
450
400

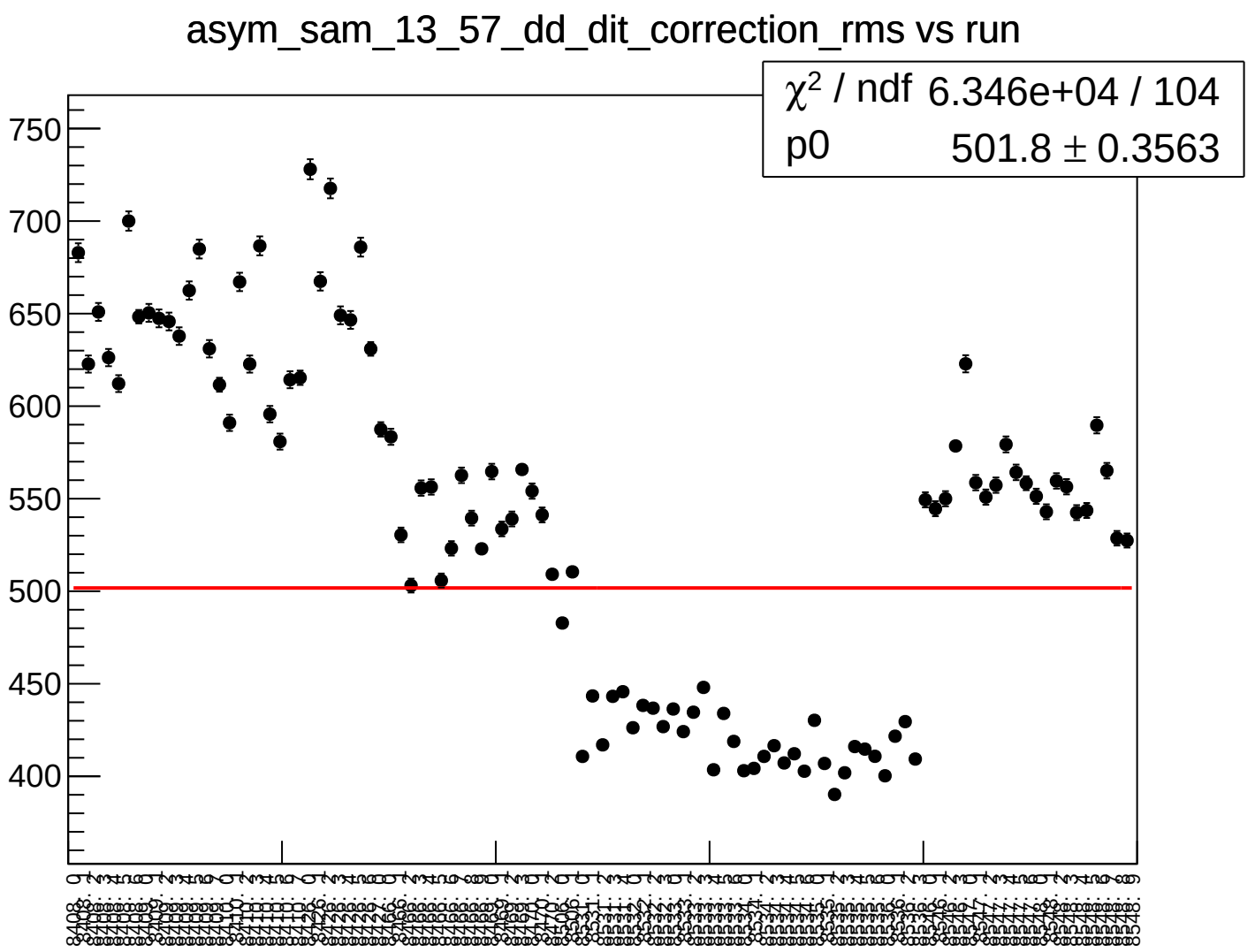

dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 92.48 / 104
p0 −11.1 ± 67.98
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 105
Mean 72.67
Std Dev 57.6
2
1
0
−1
−2
−3

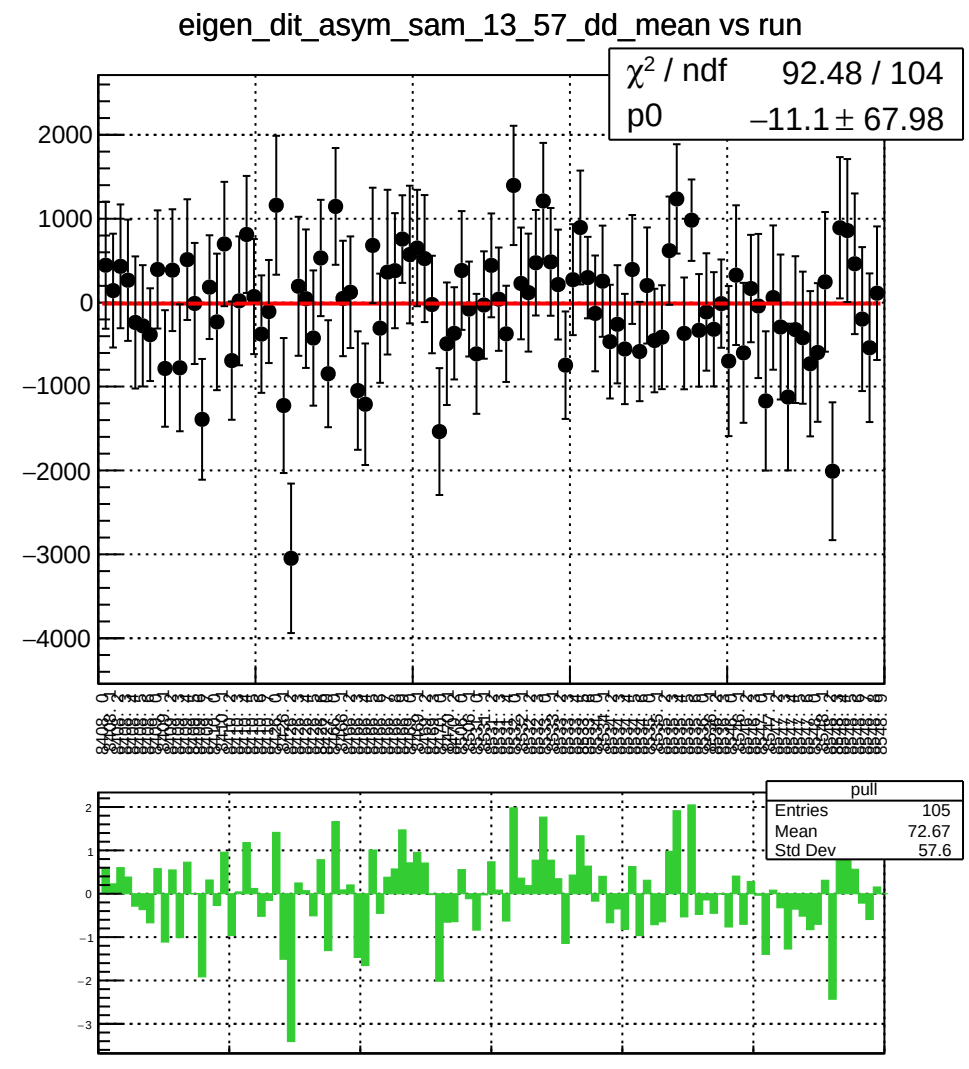

pull1D
Entries 105
Mean −0.02914
Std Dev 0.938
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

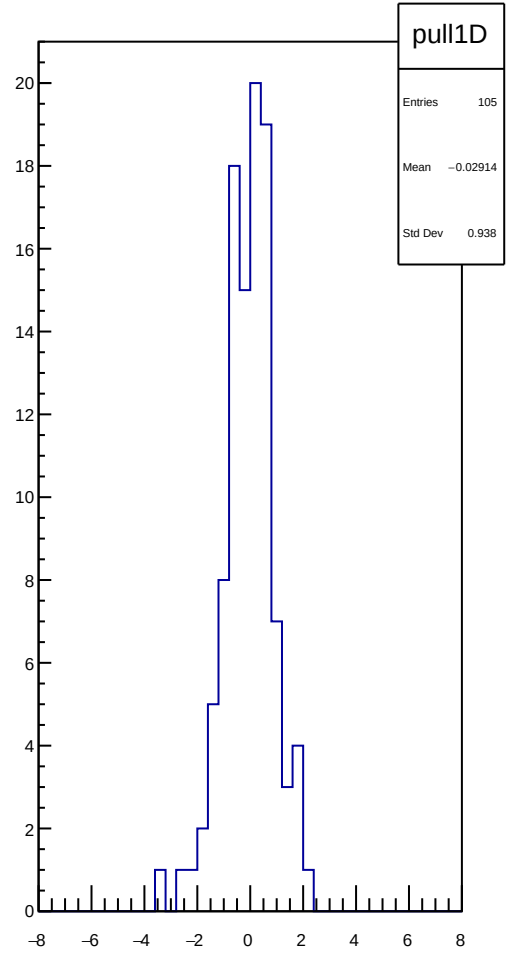

dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 2.241e+04 / 104
p0 68.38 ± 0.04807
95
90
85
80
75
70
65
60
55

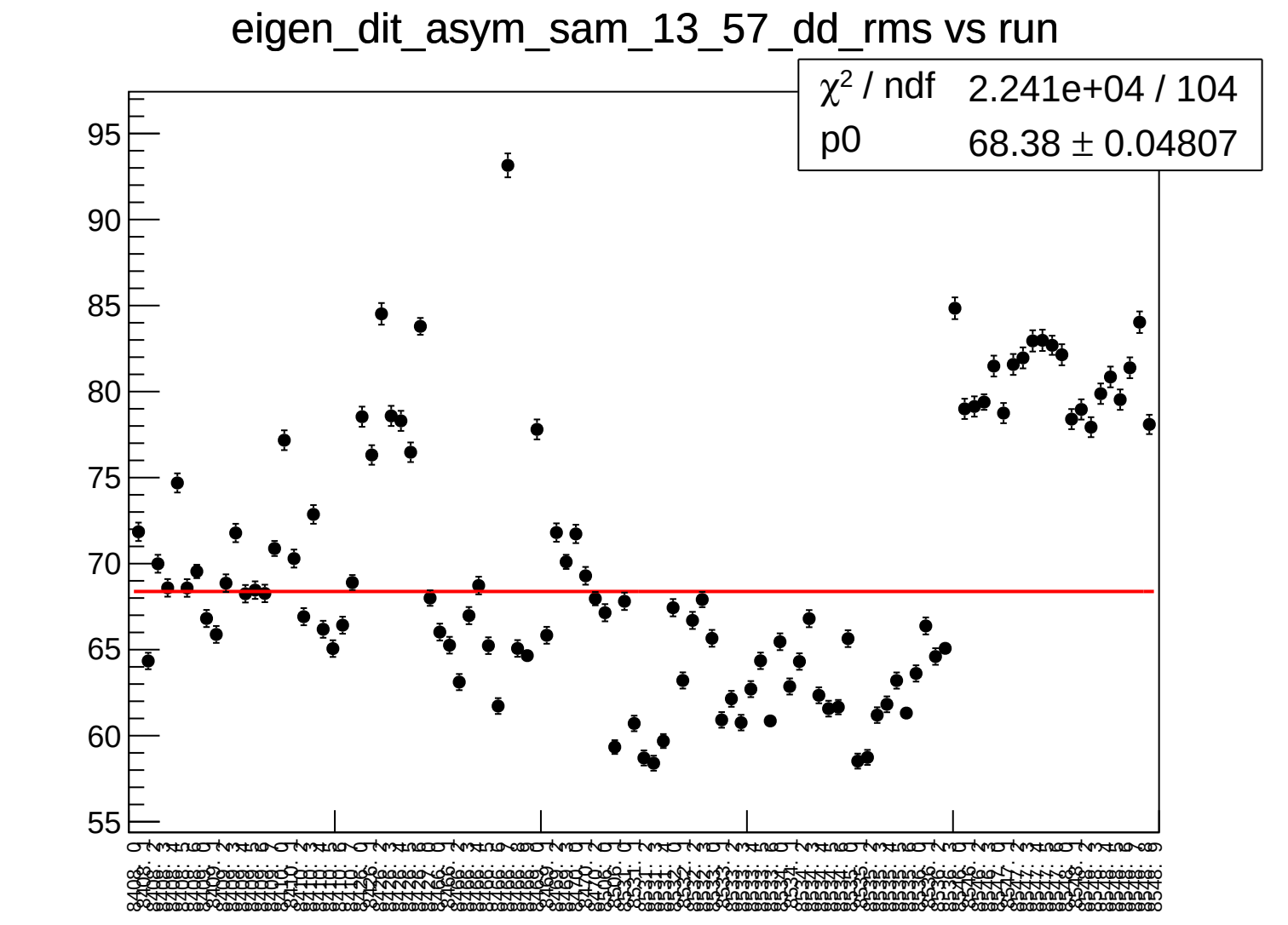

asym_sam_13_57_dd_dit_correction_mean vs run
χ² / ndf 106.5 / 104
p0 −796.1 ± 503.9
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 105
Mean 539.5
Std Dev 0
2
1
0
−1
−2

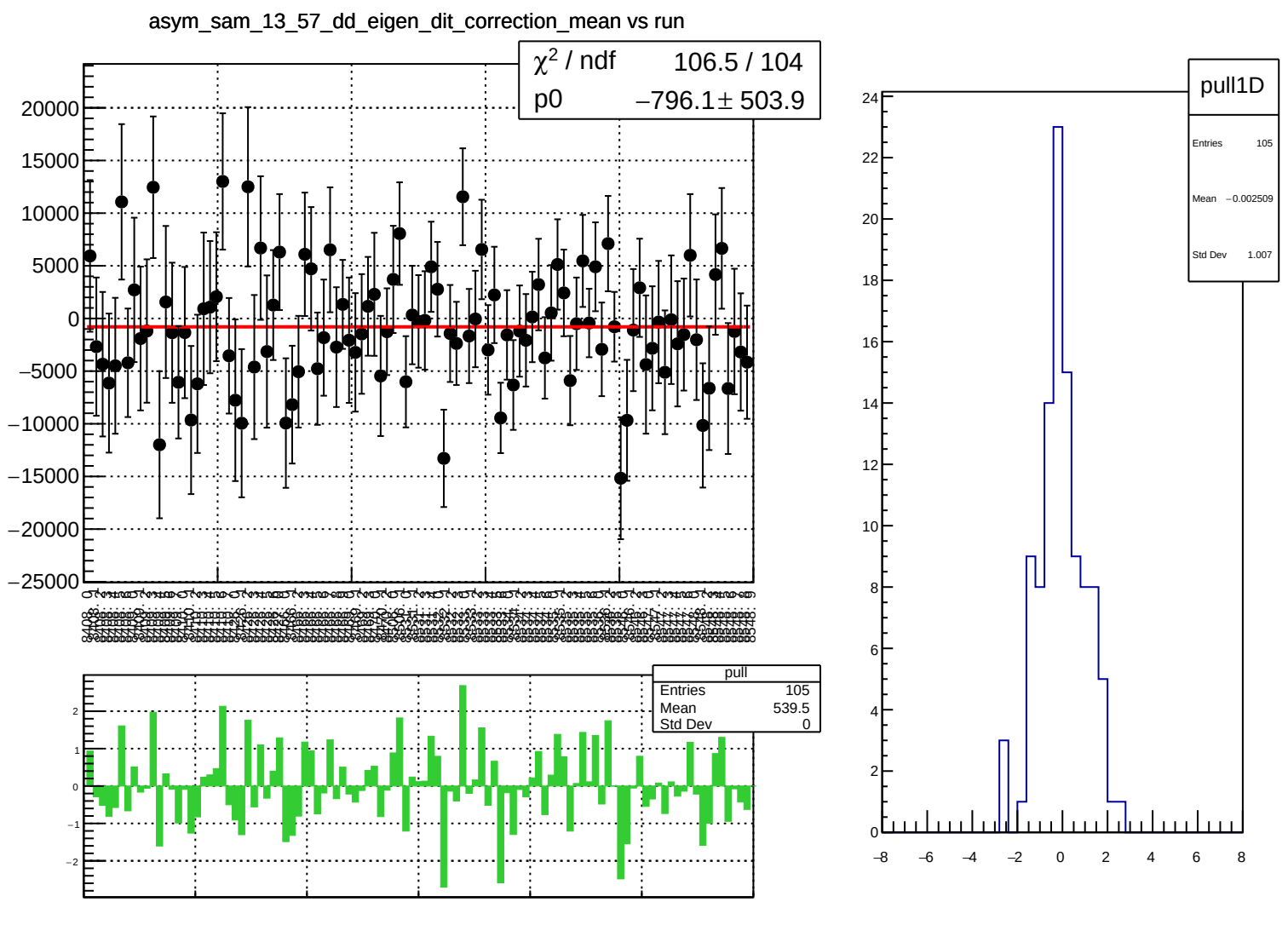

pull1D
Entries 105
Mean −0.002509
Std Dev 1.007
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

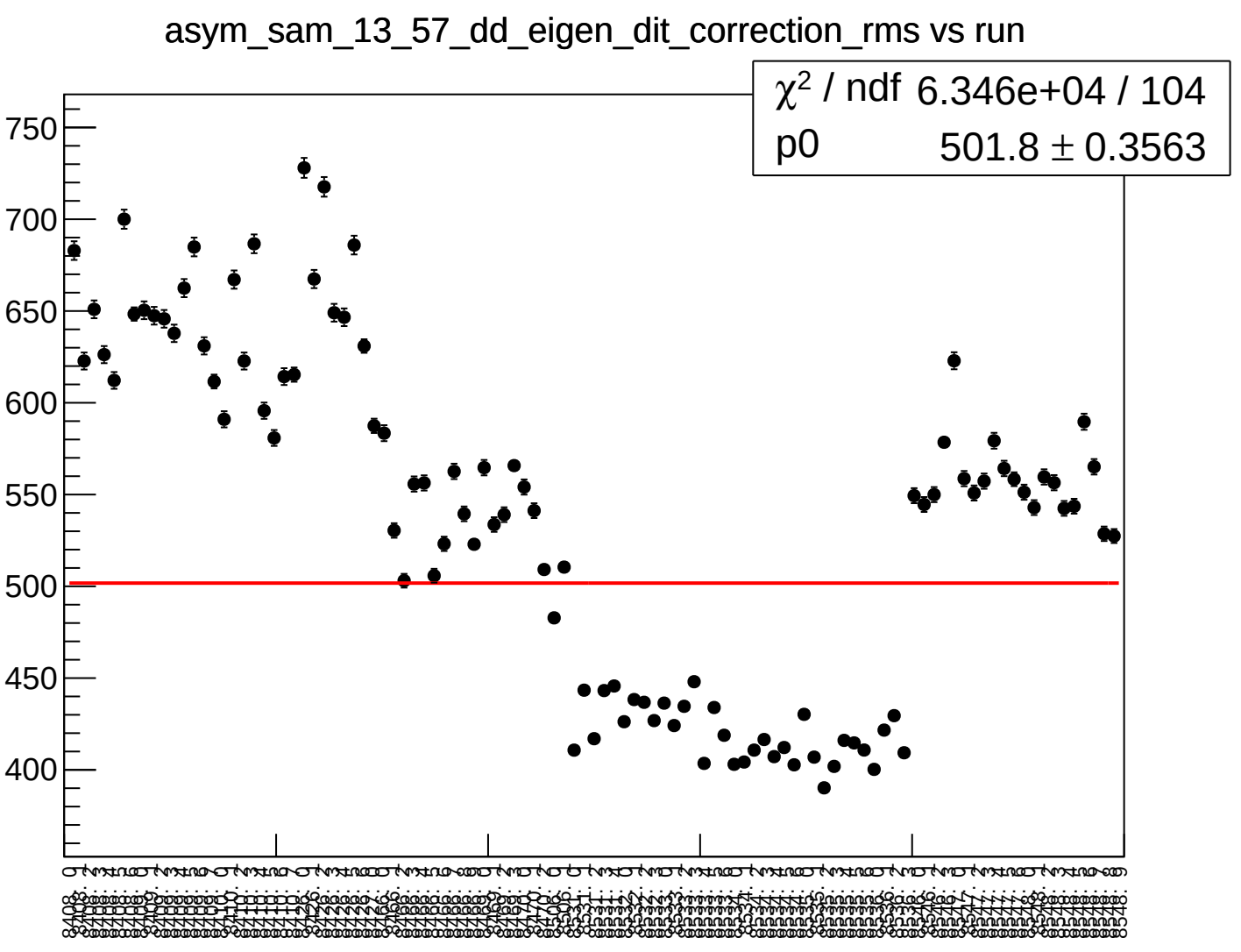

asym_sam_13_57_dd_dit_correction_rms vs run
χ² / ndf 6.346e+04 / 104
p0 501.8 ± 0.3563
750
700
650
600
550
500
450
400

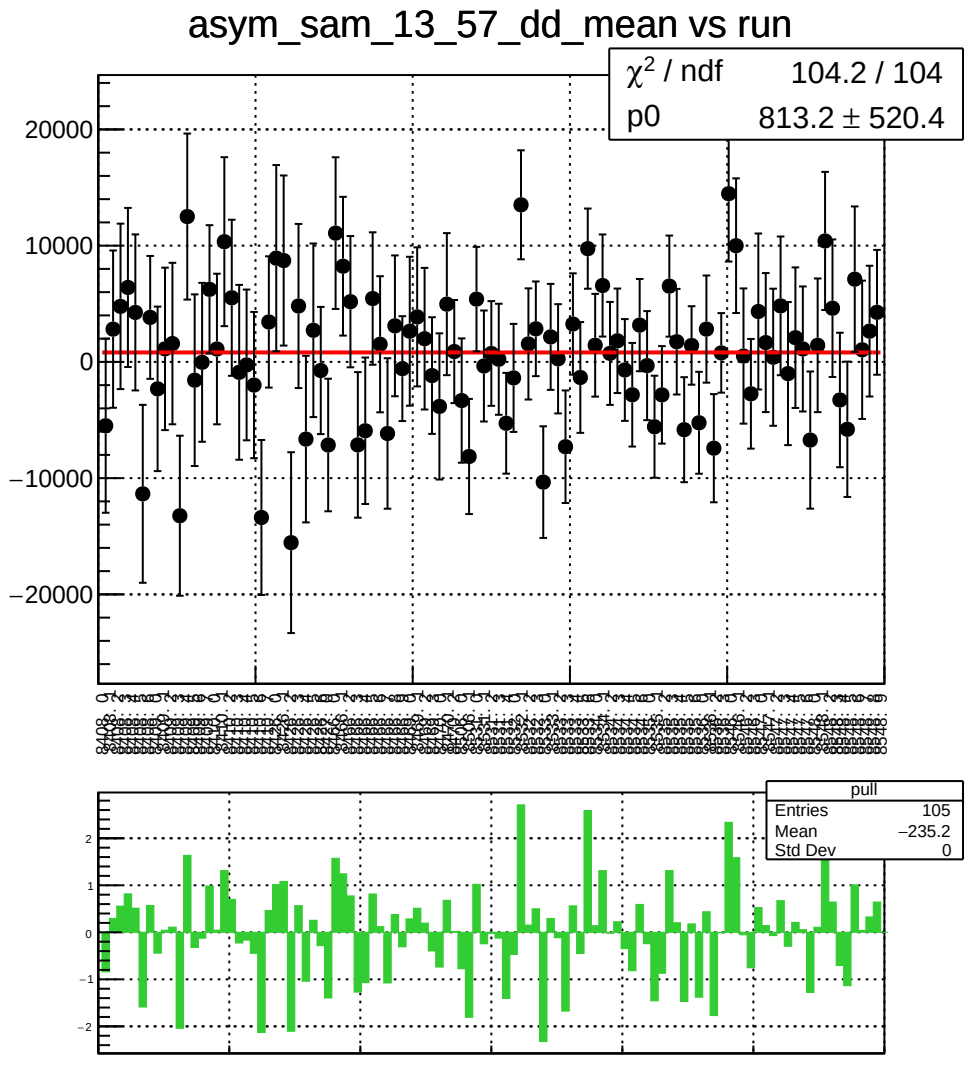

eigen_dit_asym_sam_13_57_dd_mean vs run
χ² / ndf 92.48 / 104
p0 −11.1 ± 67.98
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 105
Mean 72.67
Std Dev 57.6
2
1
0
−1
−2
−3

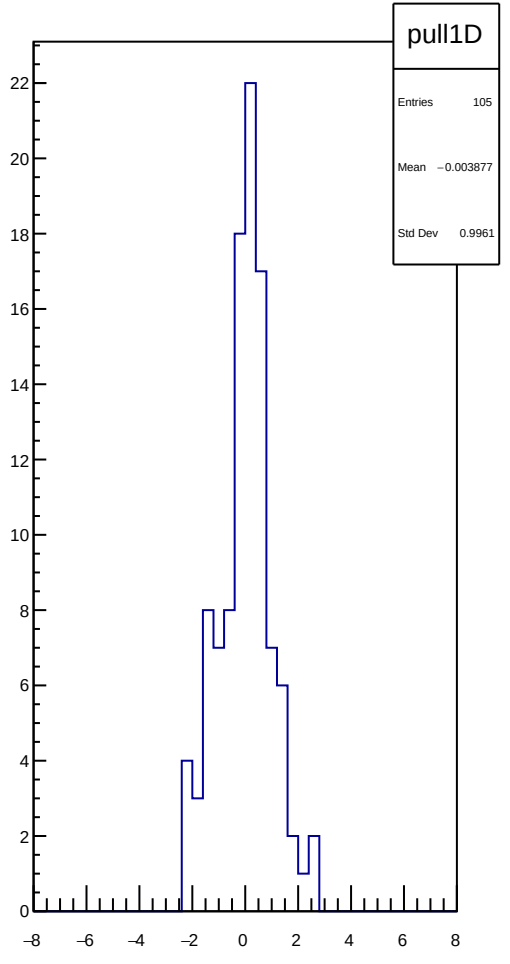

pull1D
Entries 105
Mean −0.02914
Std Dev 0.938
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

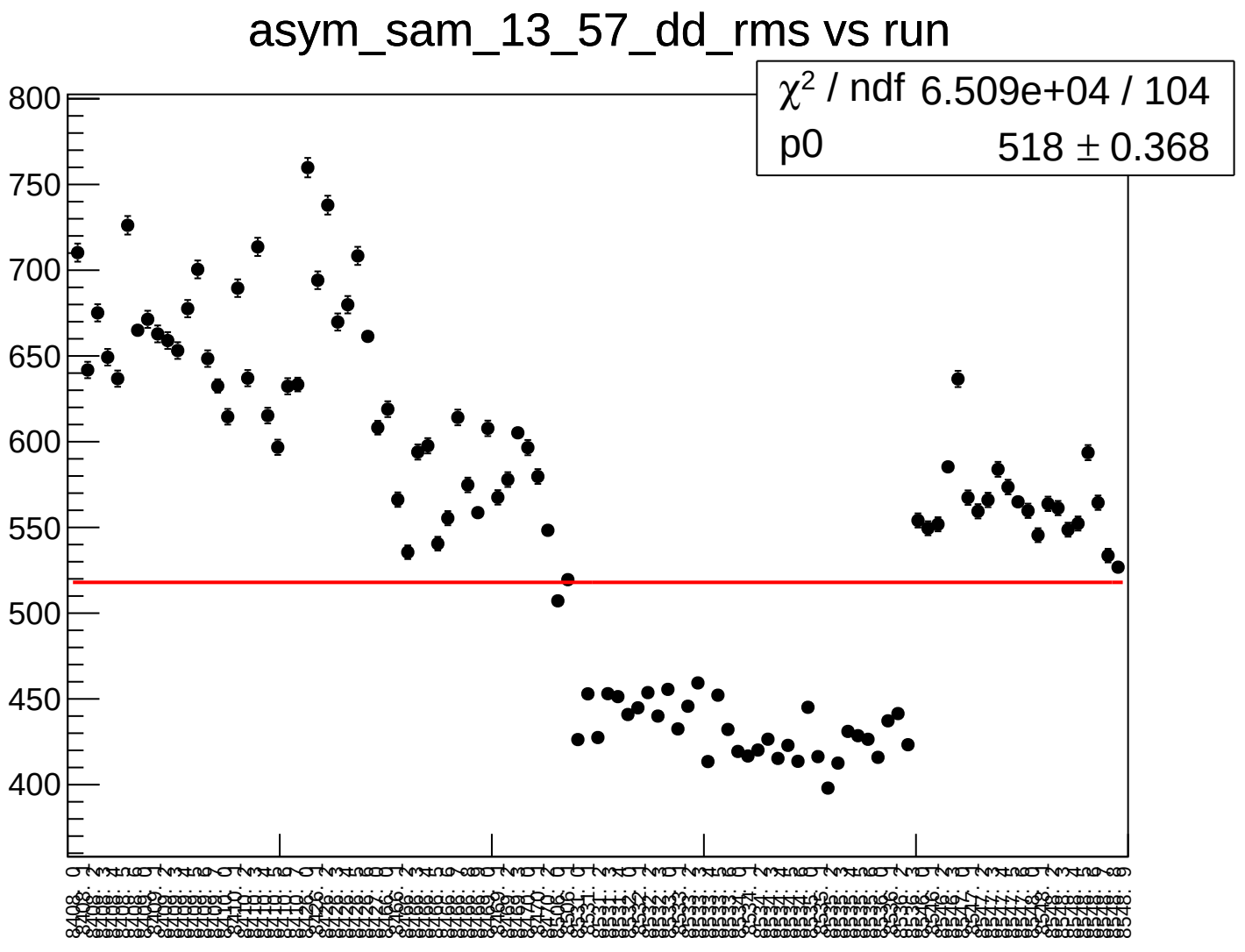

eigen_dit_asym_sam_13_57_dd_rms vs run
χ² / ndf 2.241e+04 / 104
p0 68.38 ± 0.04807
95
90
85
80
75
70
65
60
55

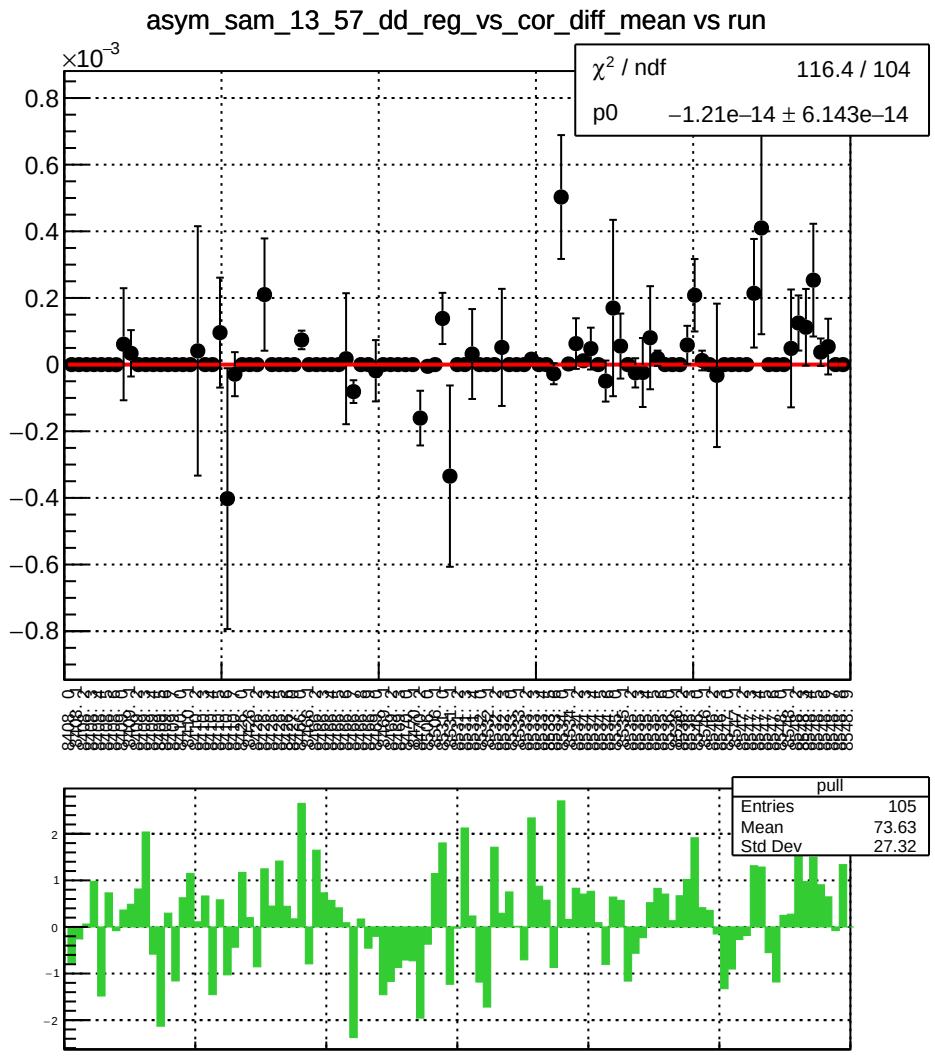

asym_sam_13_57_dd_eigen_dit_correction_mean vs run
χ² / ndf 106.5 / 104
p0 −796.1 ± 503.9
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 105
Mean 539.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.002509
Std Dev 1.007
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

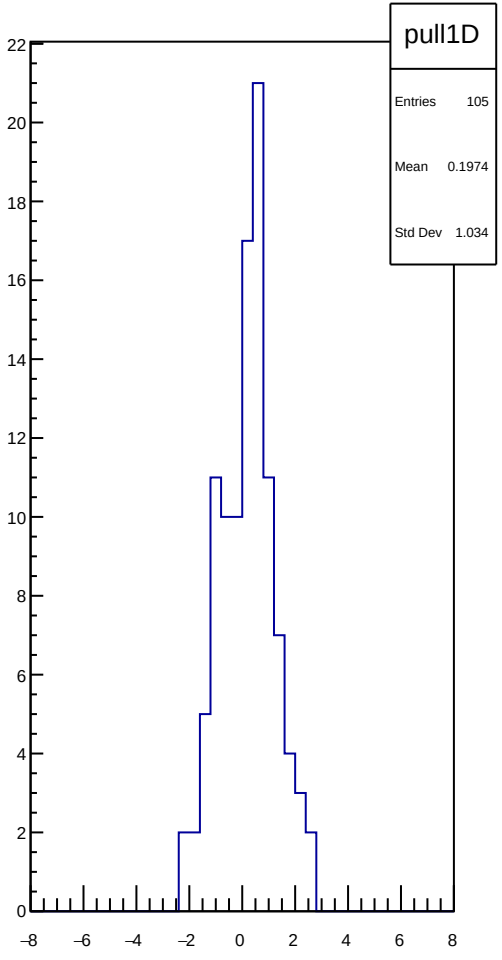

asym_sam_13_57_dd_eigen_dit_correction_rms vs run
χ² / ndf 6.346e+04 / 104
p0 501.8 ± 0.3563
750
700
650
600
550
500
450
400

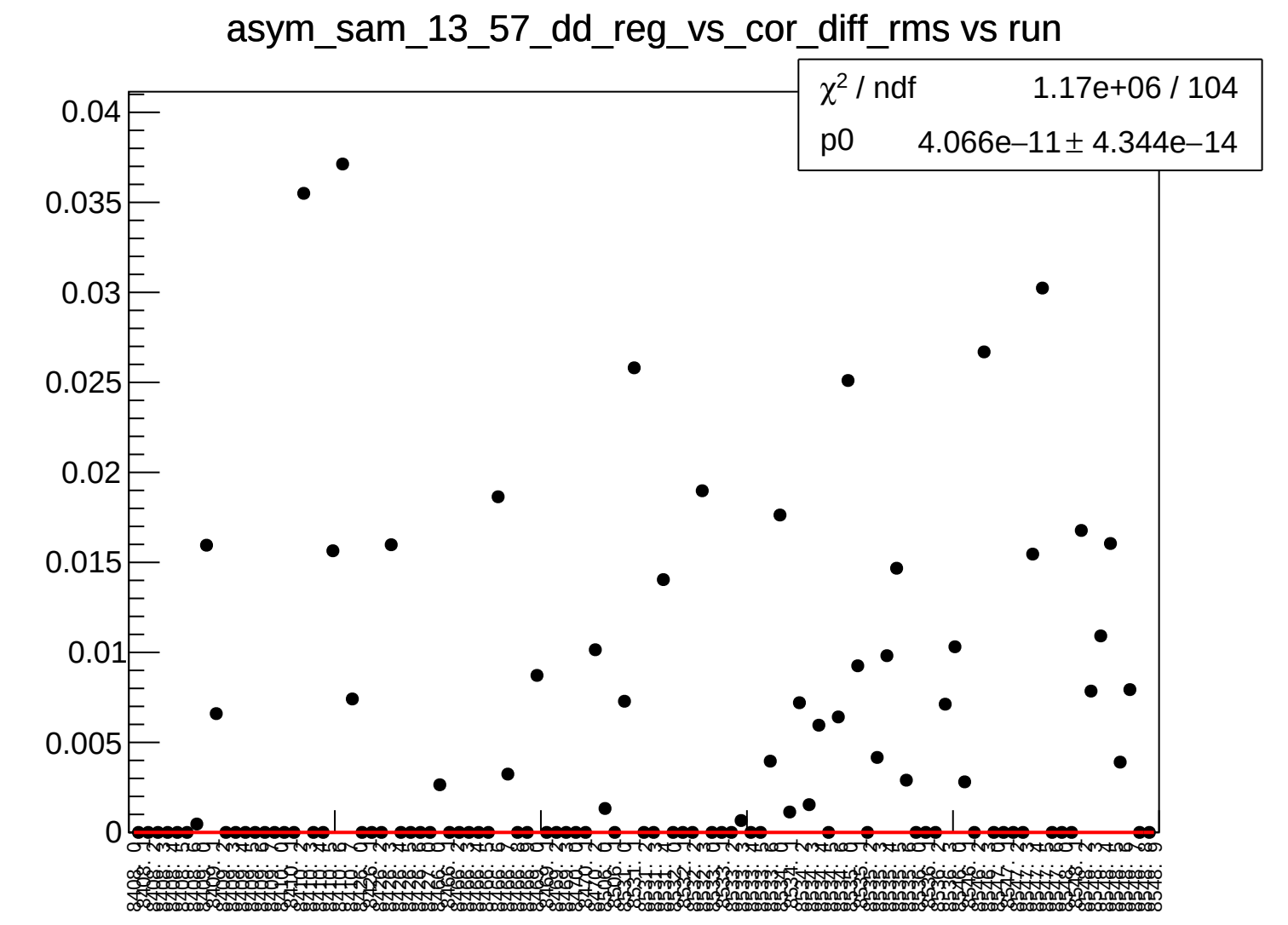

asym_sam_13_57_dd_mean vs run
χ² / ndf 104.2 / 104
p0 813.2 ± 520.4
20000
10000
0
−10000
−20000
pull
Entries 105
Mean −235.2
Std Dev 0
2
1
0
−1
−2

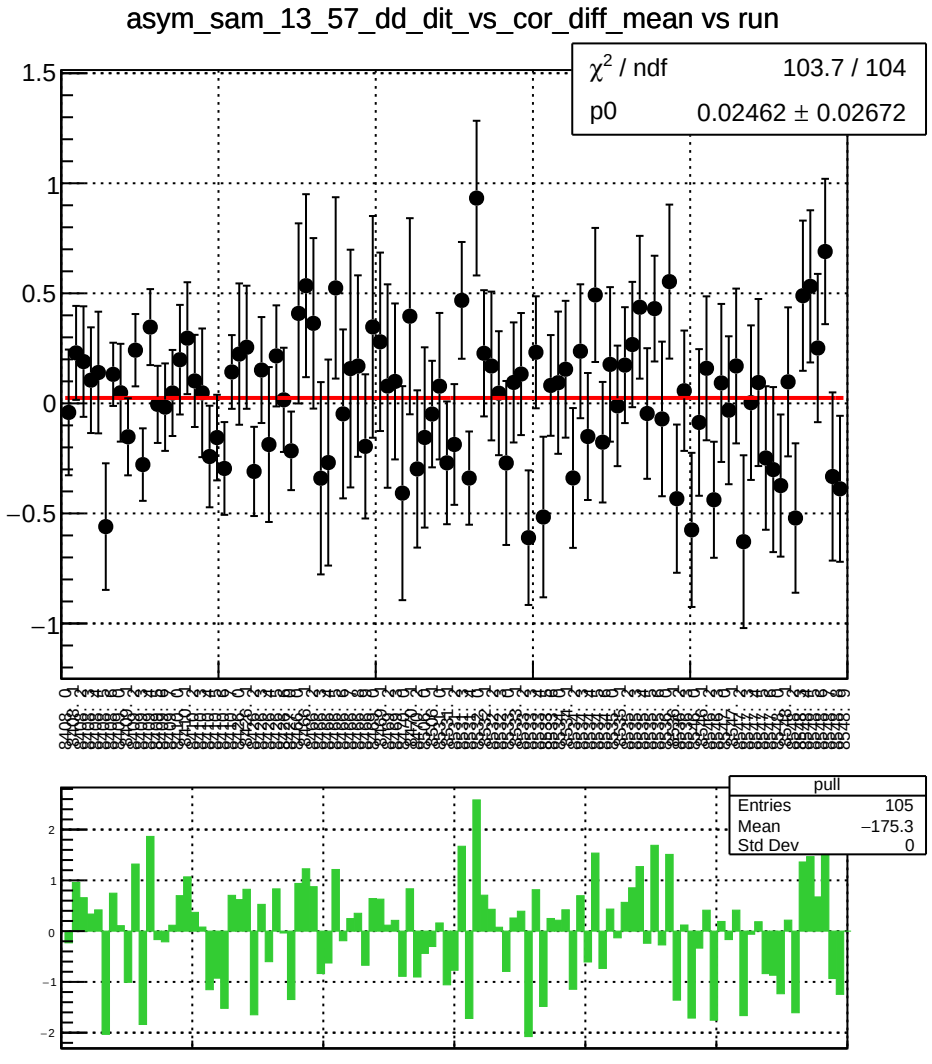

pull1D
Entries 105
Mean −0.003877
Std Dev 0.9961
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

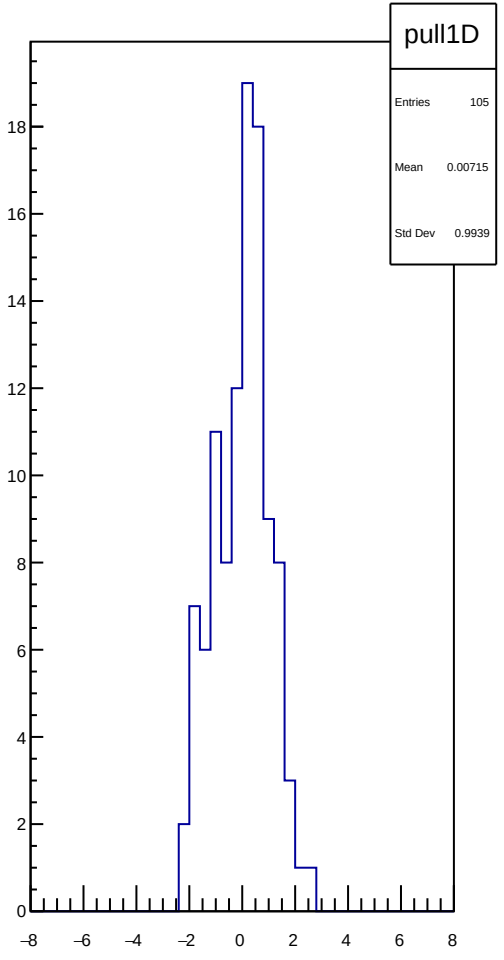

asym_sam_13_57_dd_rms vs run
χ² / ndf 6.509e+04 / 104
p0 518 ± 0.368
800
750
700
650
600
550
500
450
400

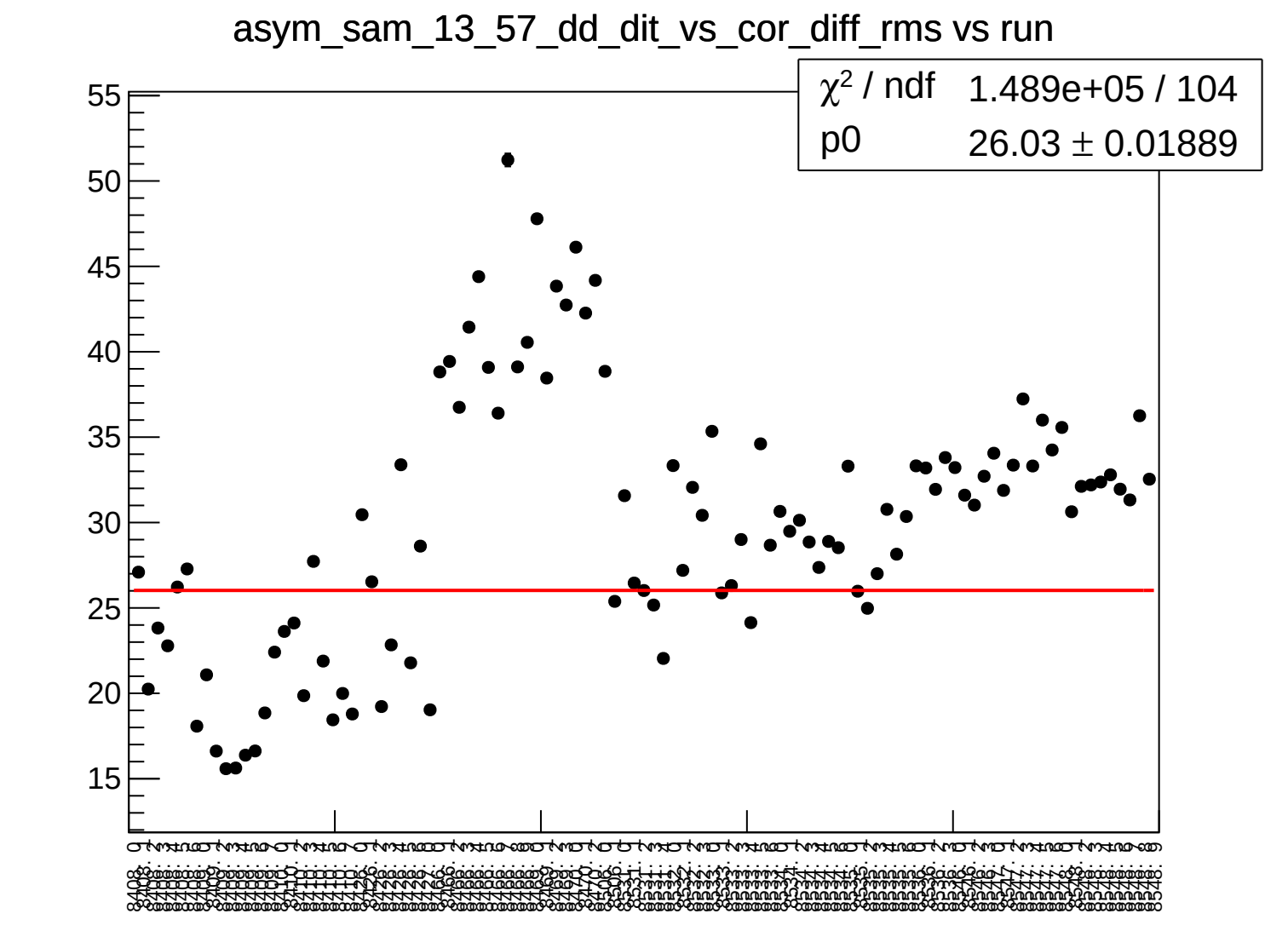

asym_sam_13_57_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 116.4 / 104
p0 −1.21e−14 ± 6.143e−14
pull
Entries 105
Mean 73.63
Std Dev 27.32

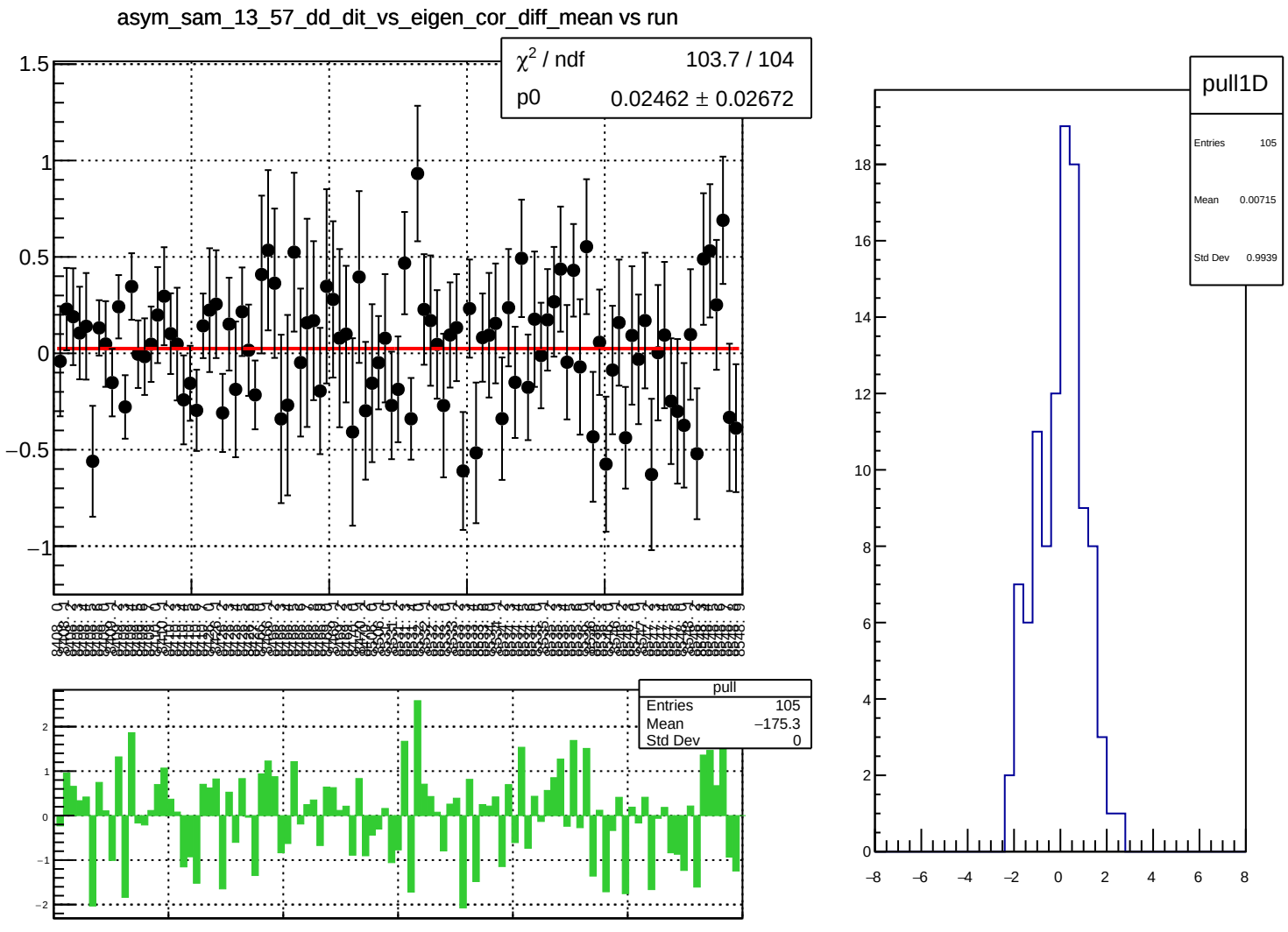

pull1D
Entries 105
Mean 0.1974
Std Dev 1.034

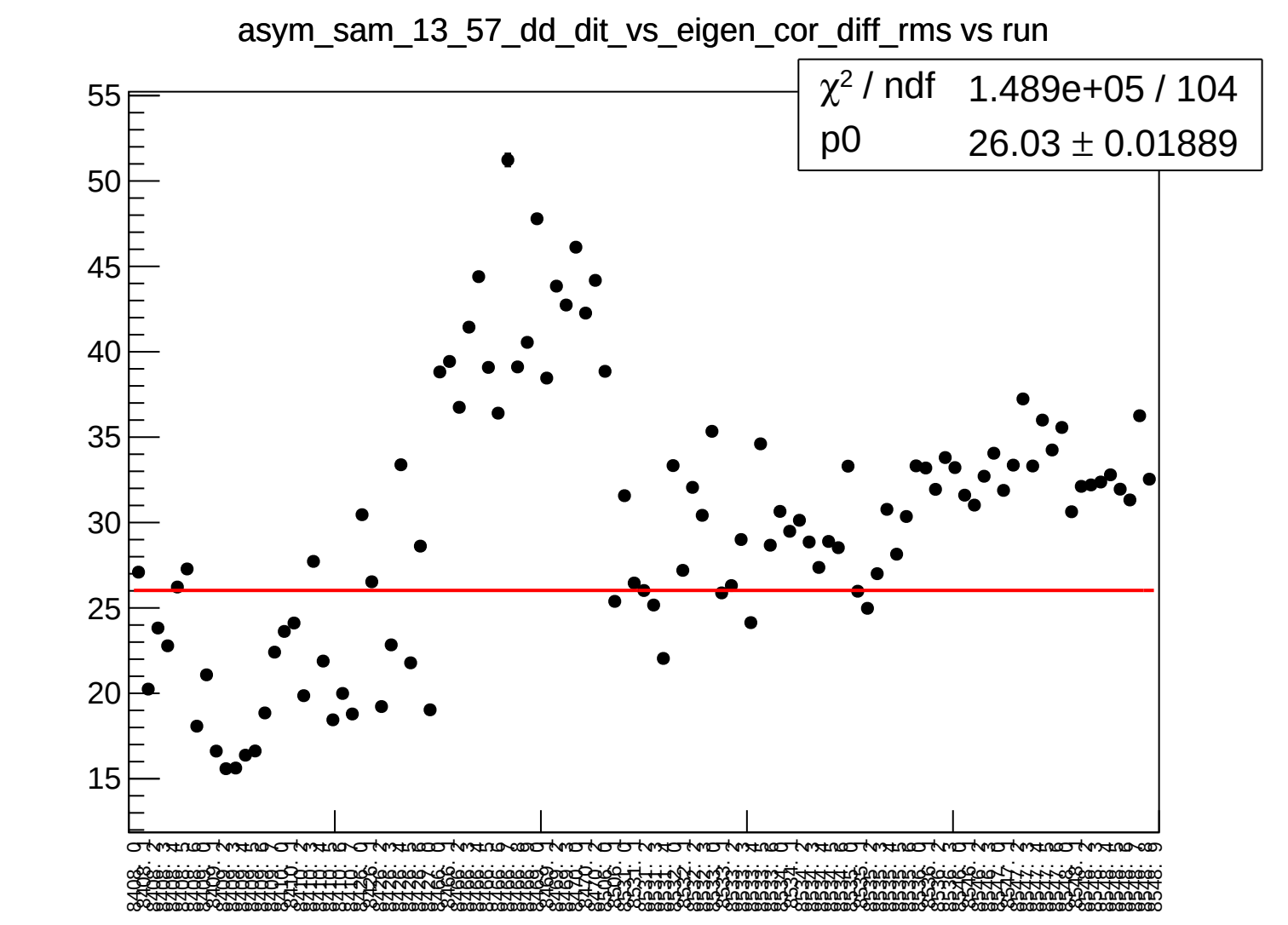

asym_sam_13_57_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.17e+06 / 104
p0 4.066e−11 ± 4.344e−14
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

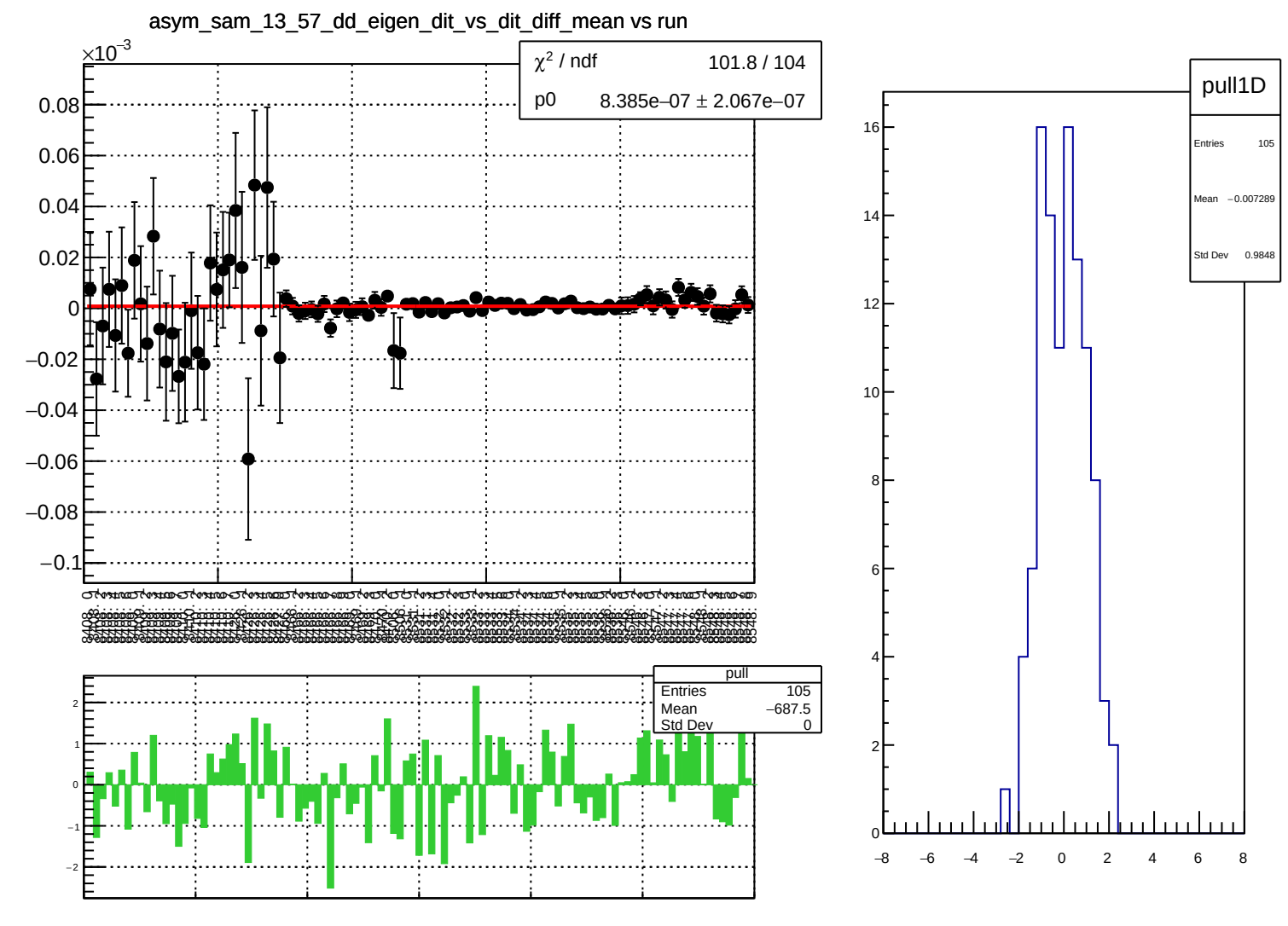

asym_sam_13_57_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 103.7 / 104
p0 0.02462 ± 0.02672
pull
Entries 105
Mean −175.3
Std Dev 0

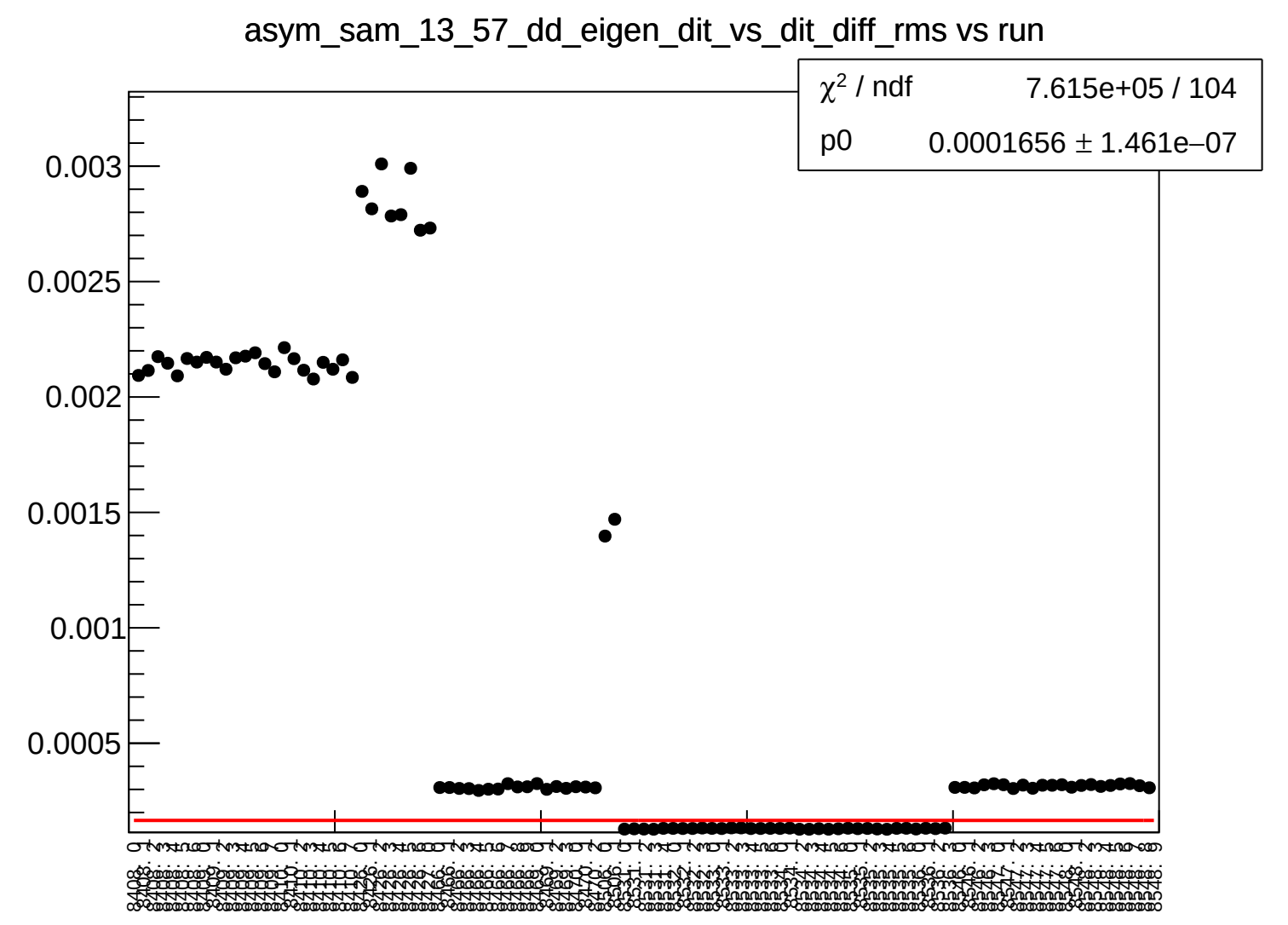

pull1D
Entries 105
Mean 0.00715
Std Dev 0.9939


asym_sam_13_57_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.489e+05 / 104
p0 26.03 ± 0.01889
55
50
45
40
35
30
25
20
15

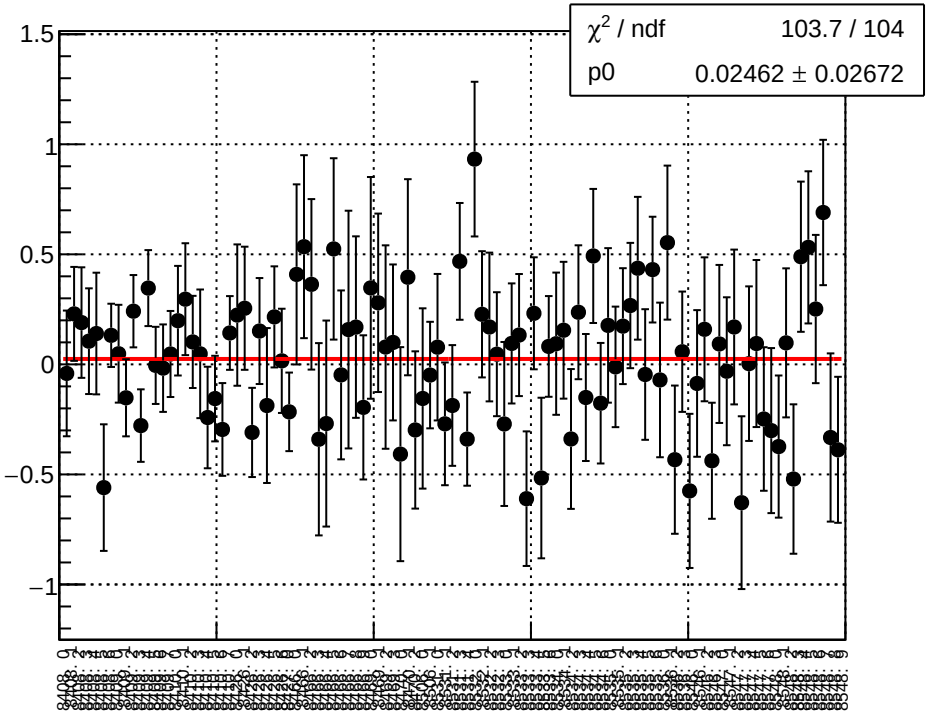

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.7 / 104
p0 0.02462 ± 0.02672
pull
Entries 105
Mean −175.3
Std Dev 0
pull1D
Entries 105
Mean 0.00715
Std Dev 0.9939

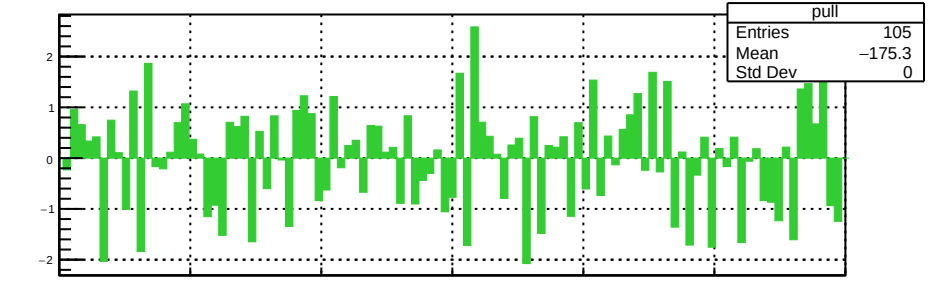

asym_sam_13_57_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.489e+05 / 104
p0 26.03 ± 0.01889
55
50
45
40
35
30
25
20
15

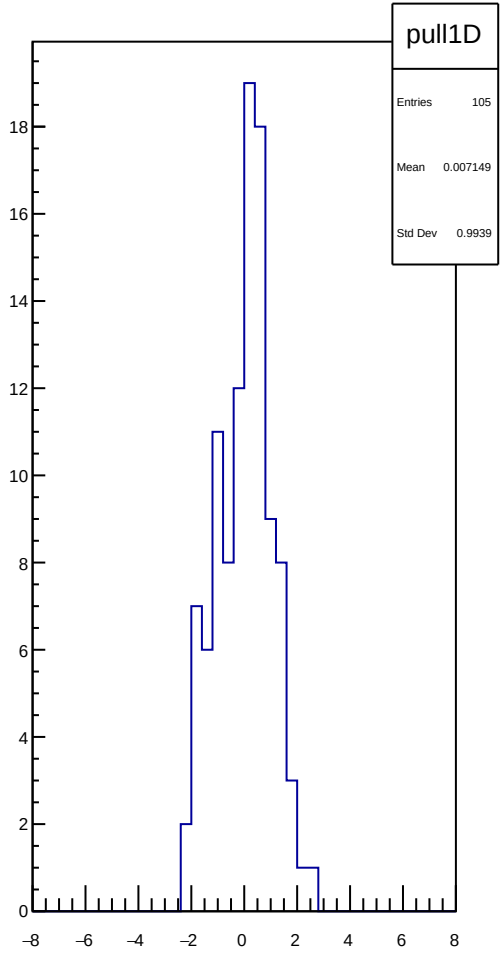

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 101.8 / 104
p0 8.385e−07 ± 2.067e−07
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
pull
Entries 105
Mean −687.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.007289
Std Dev 0.9848
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

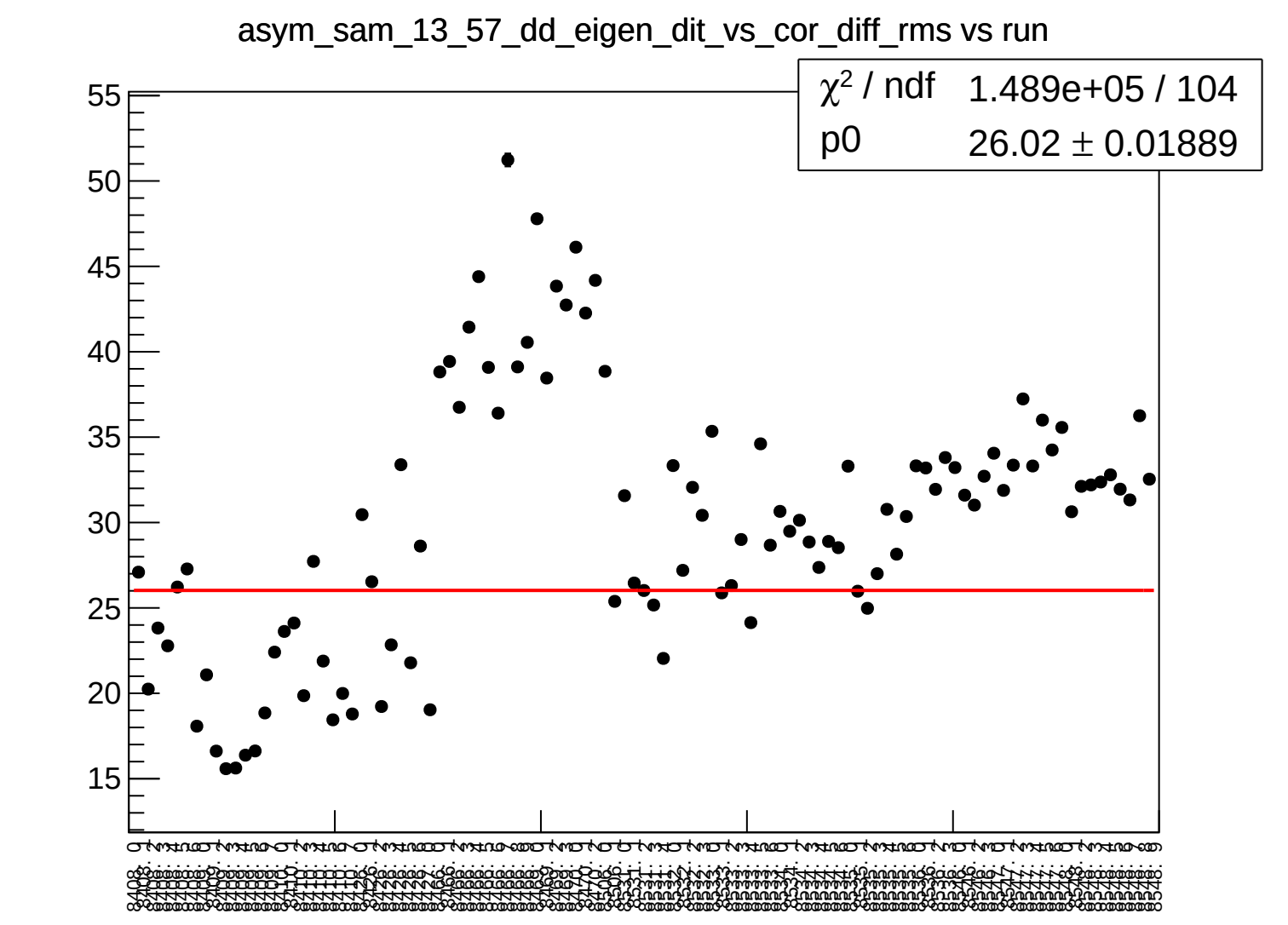

asym_sam_13_57_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.615e+05 / 104
p0 0.0001656 ± 1.461e−07
0.003
0.0025
0.002
0.0015
0.001
0.0005

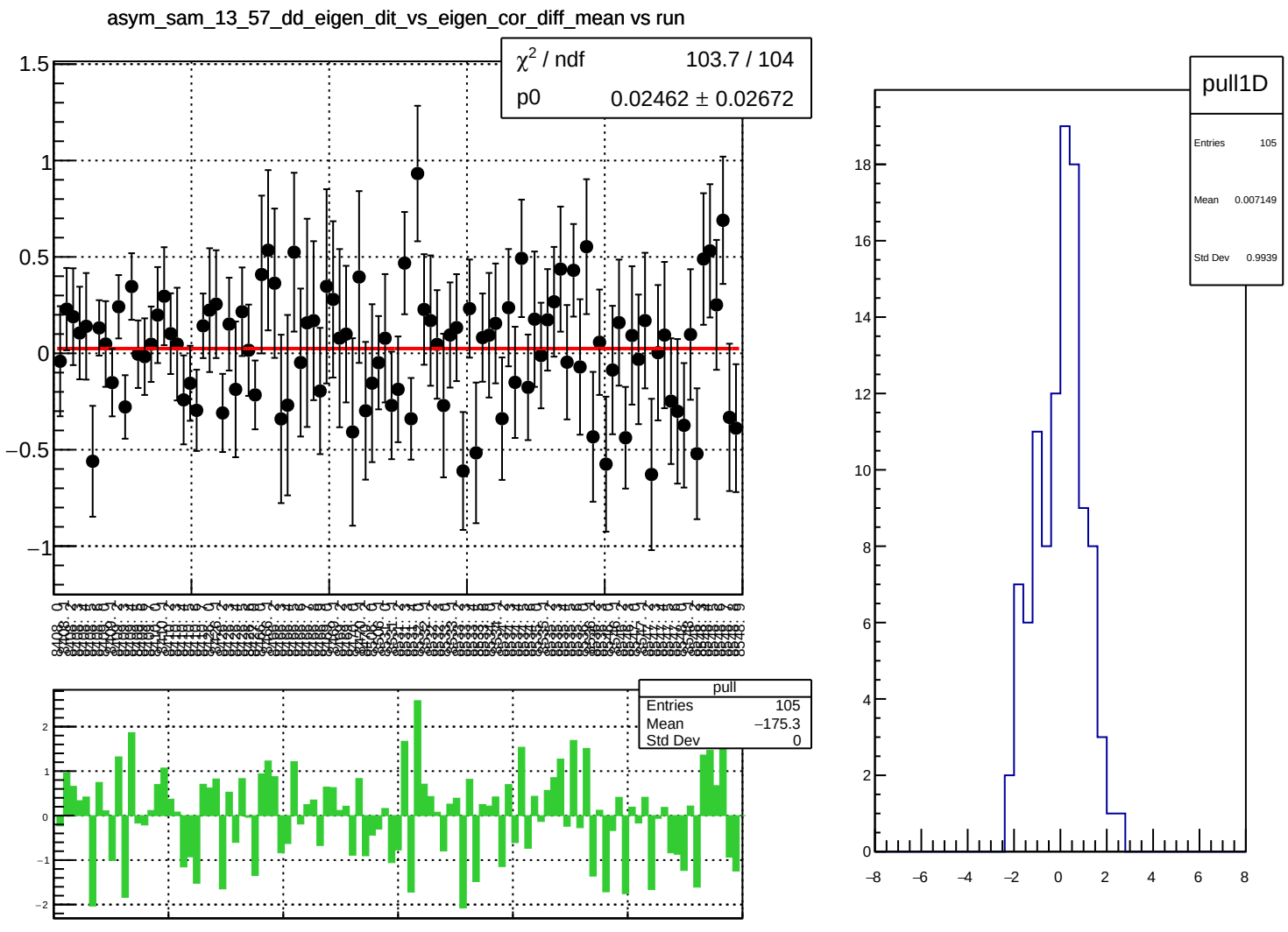
asym_sam_13_57_dd_eigen_dit_vs_cor_diff_mean vs run

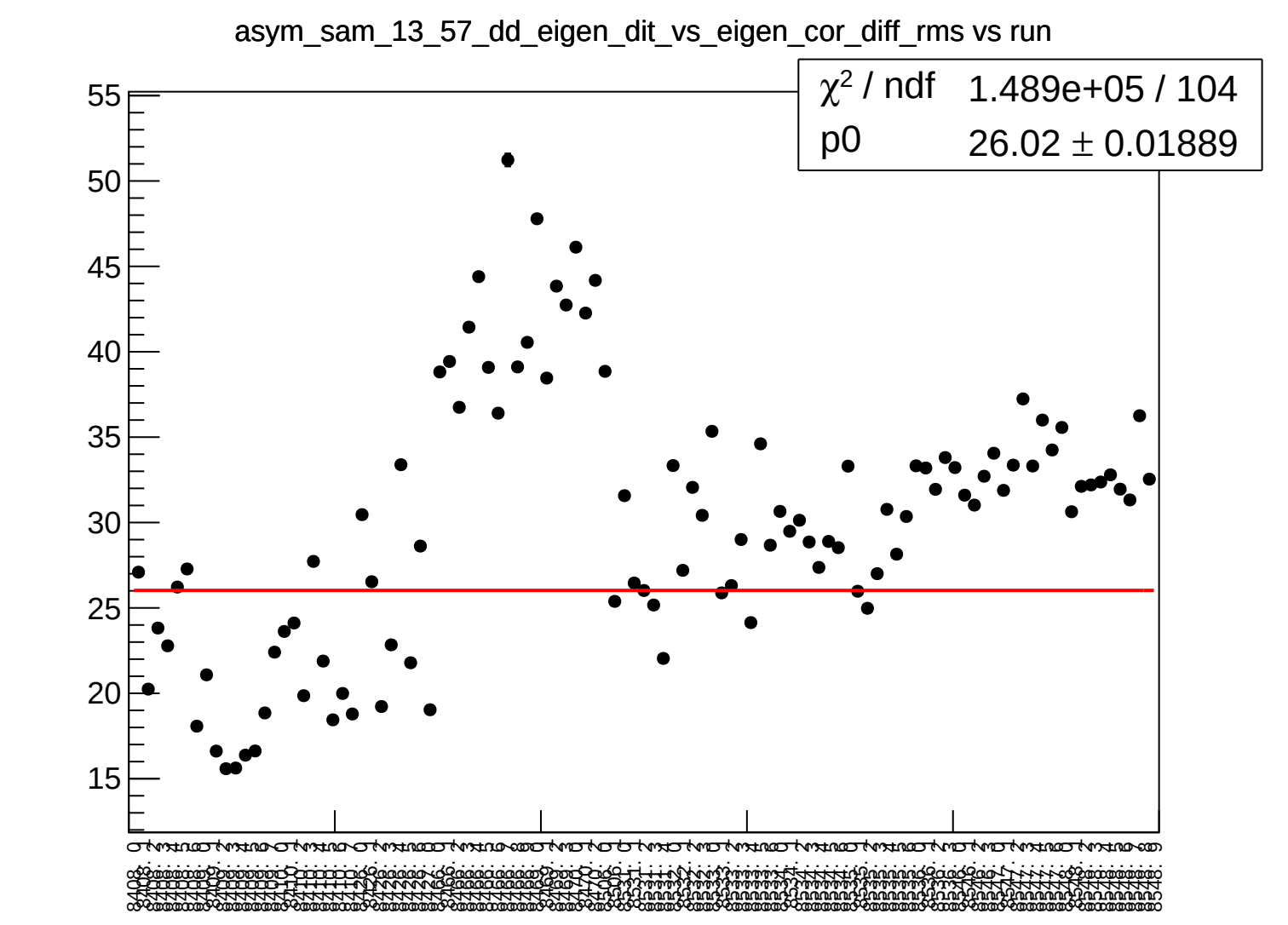


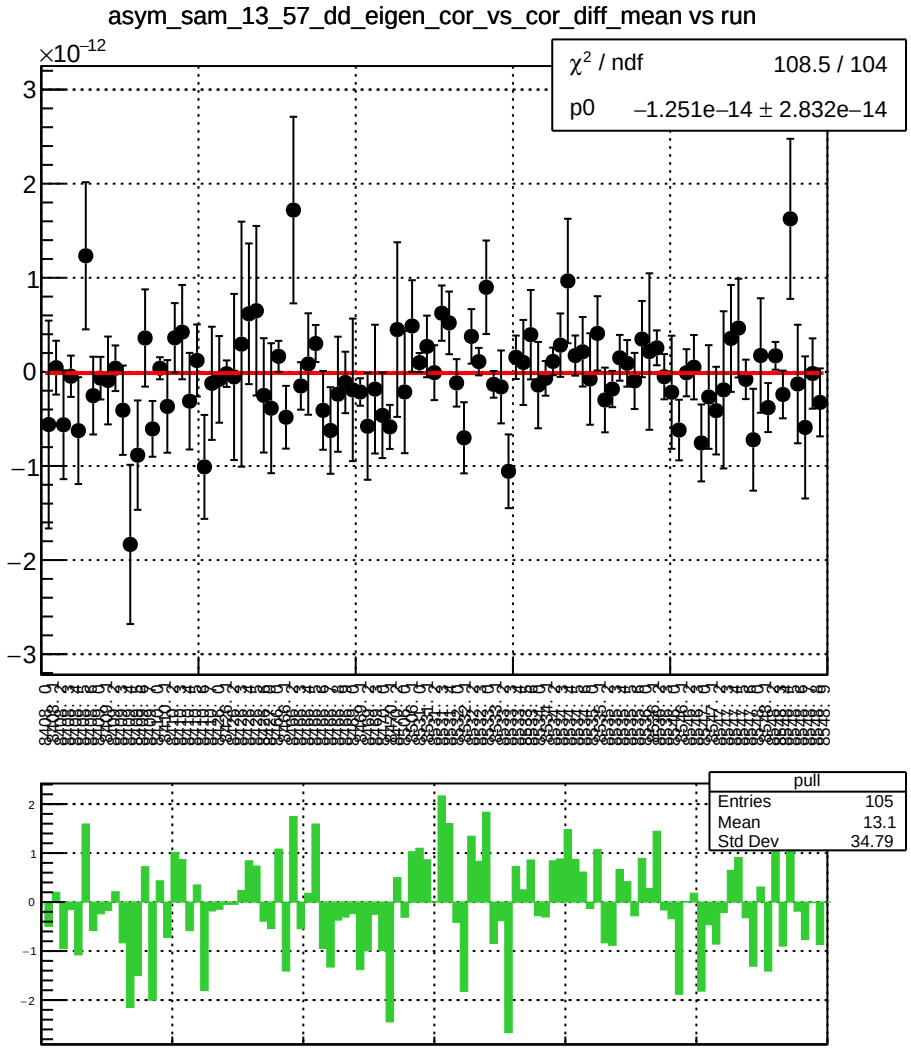


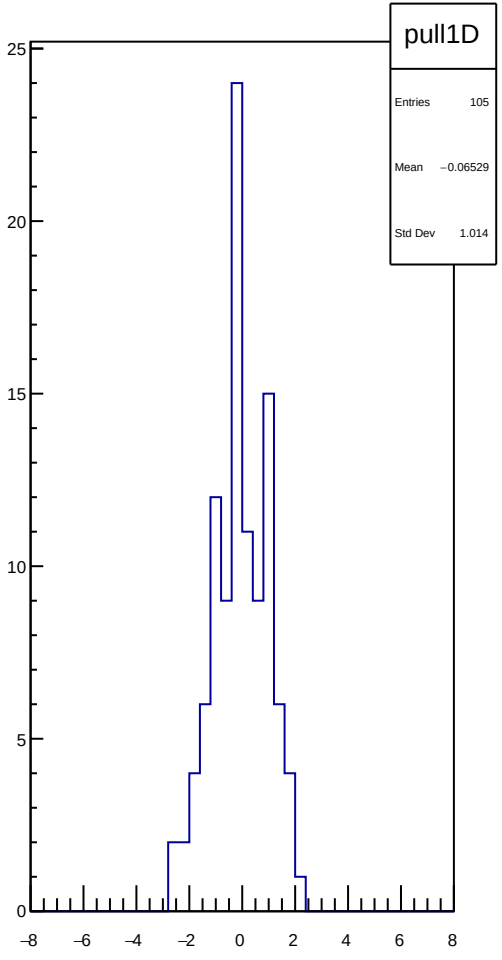


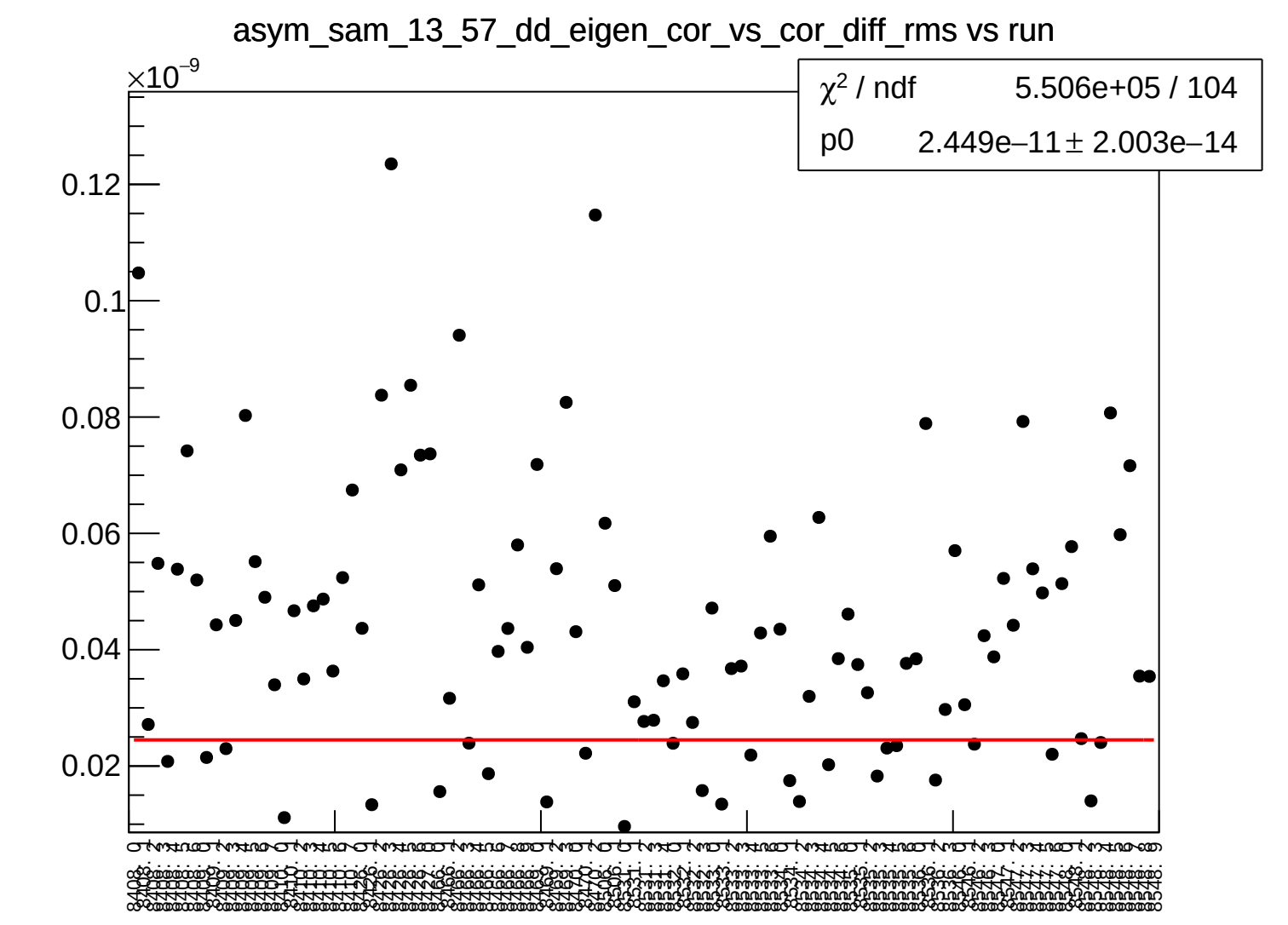

asym_sam_13_57_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.489e+05 / 104
p0 26.02 ± 0.01889
55
50
45
40
35
30
25
20
15

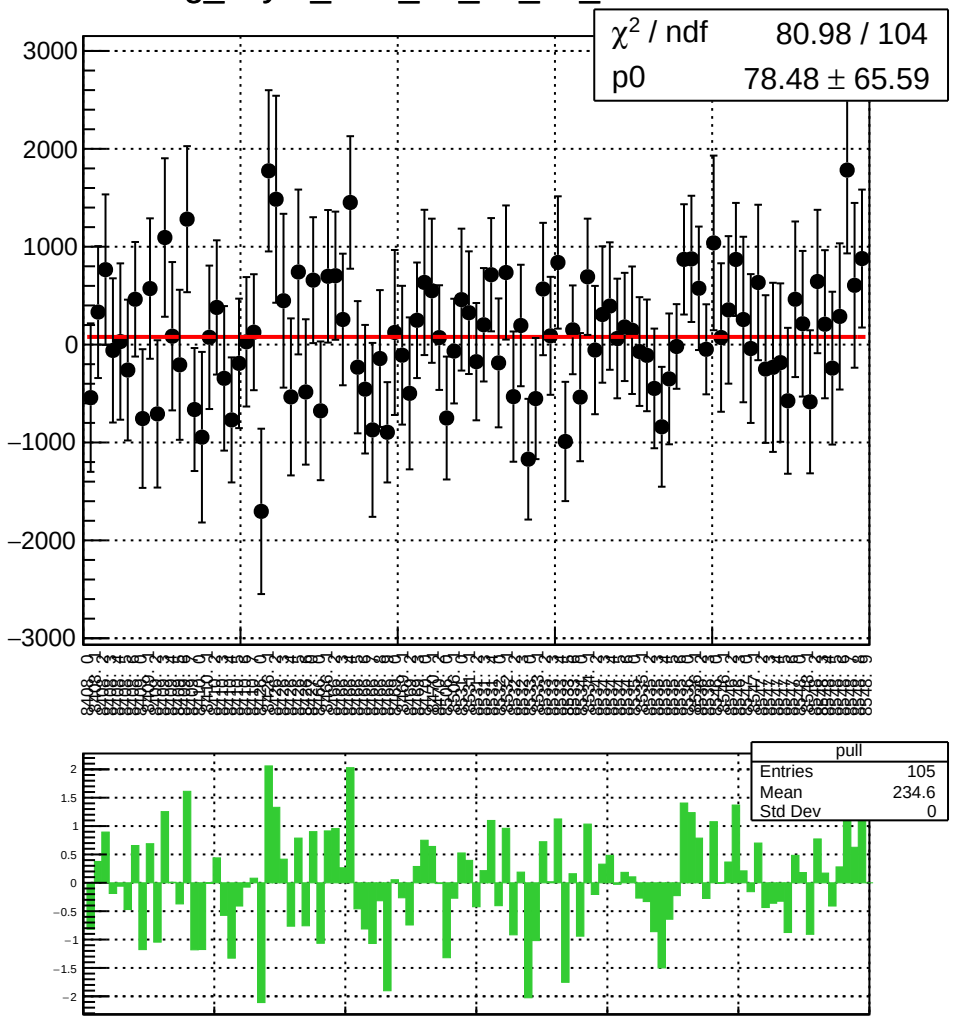

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.7 / 104
p0 0.02462 ± 0.02672
pull
Entries 105
Mean −175.3
Std Dev 0
pull1D
Entries 105
Mean 0.007149
Std Dev 0.9939

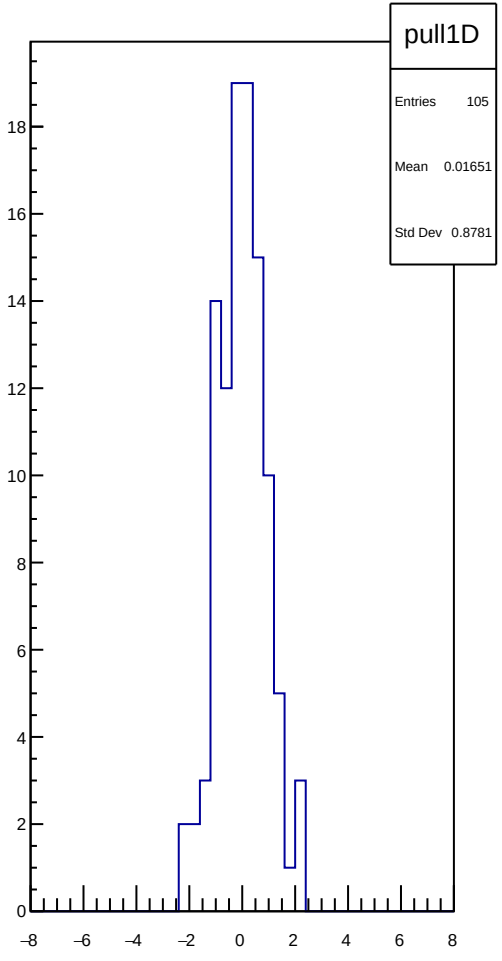

asym_sam_13_57_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.489e+05 / 104
p0 26.02 ± 0.01889
55
50
45
40
35
30
25
20
15

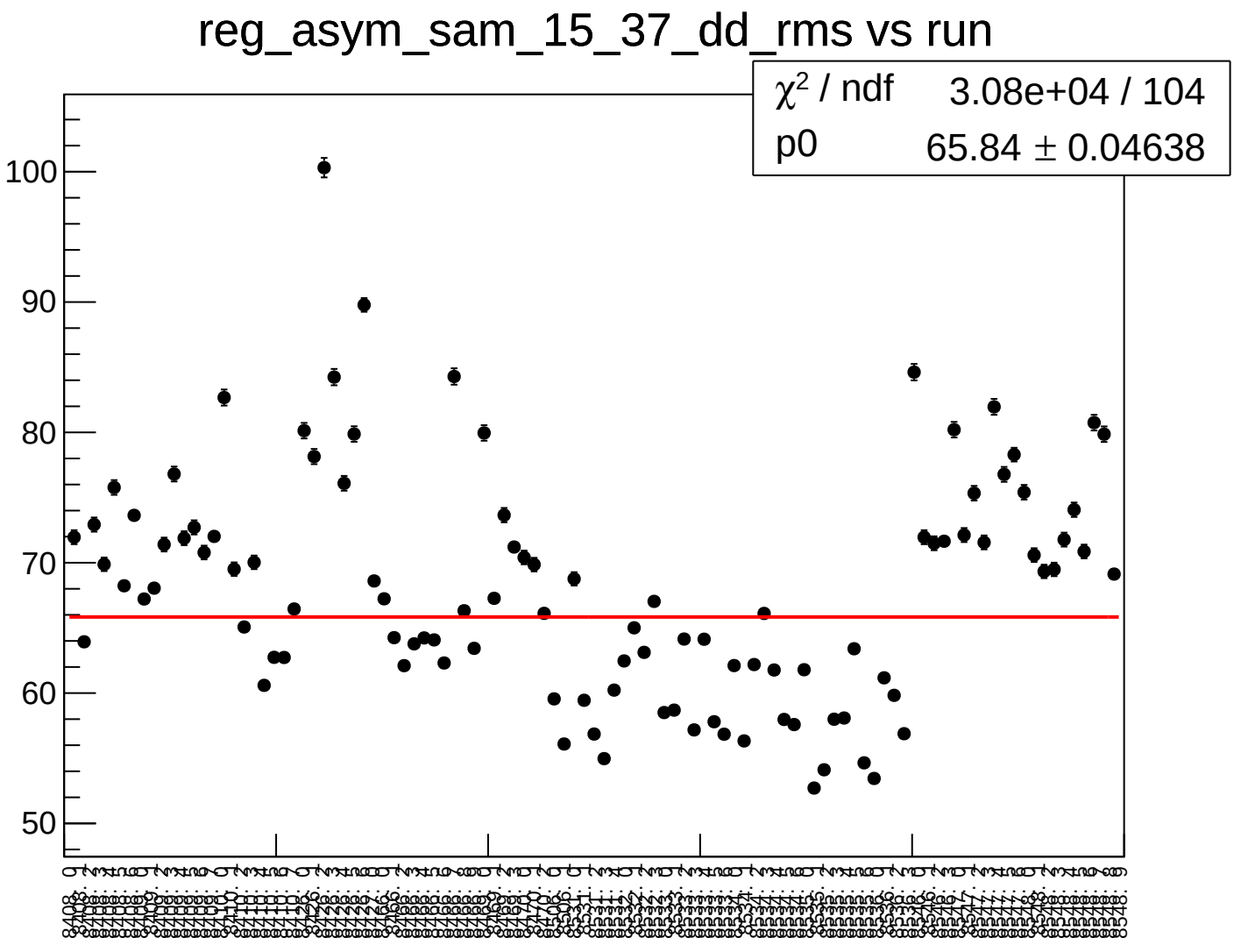

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 108.5 / 104
p0 −1.251e−14 ± 2.832e−14
pull
Entries 105
Mean 13.1
Std Dev 34.79

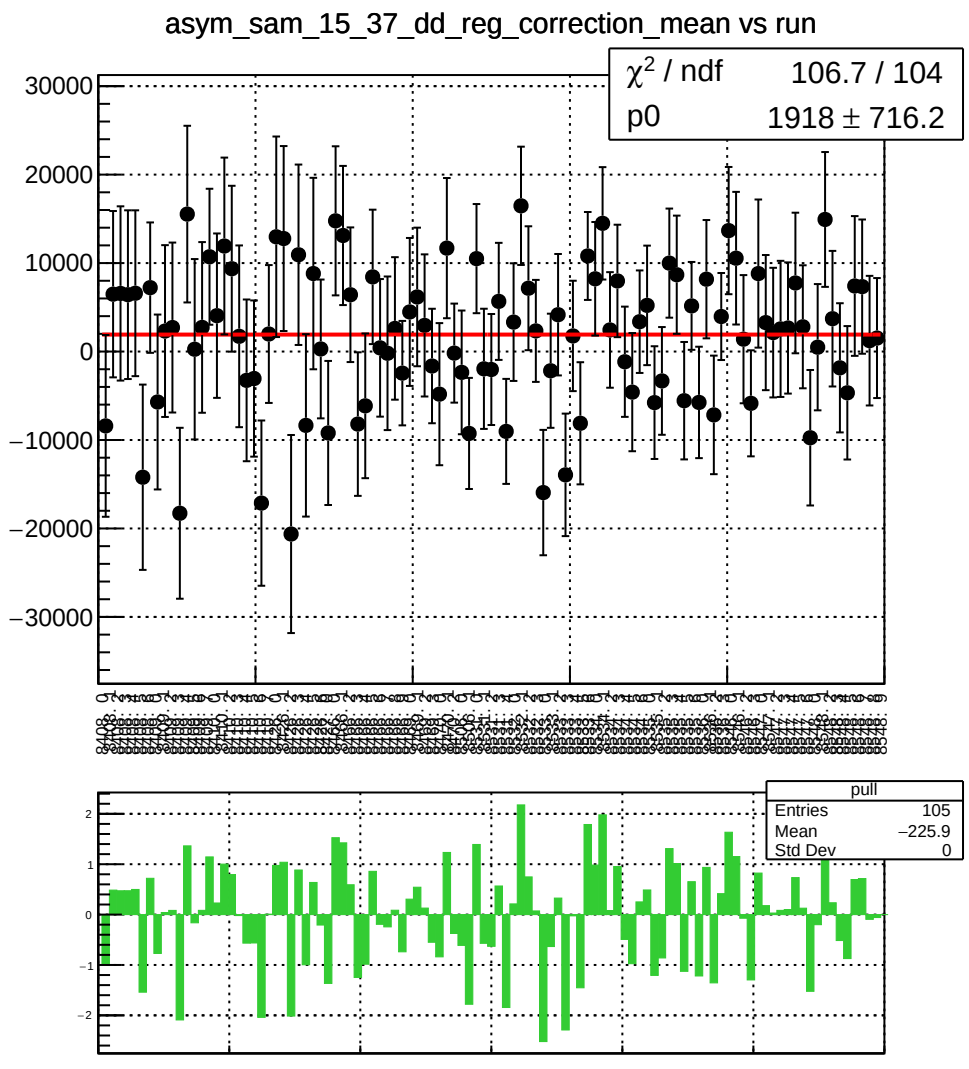

pull1D
Entries 105
Mean −0.06529
Std Dev 1.014

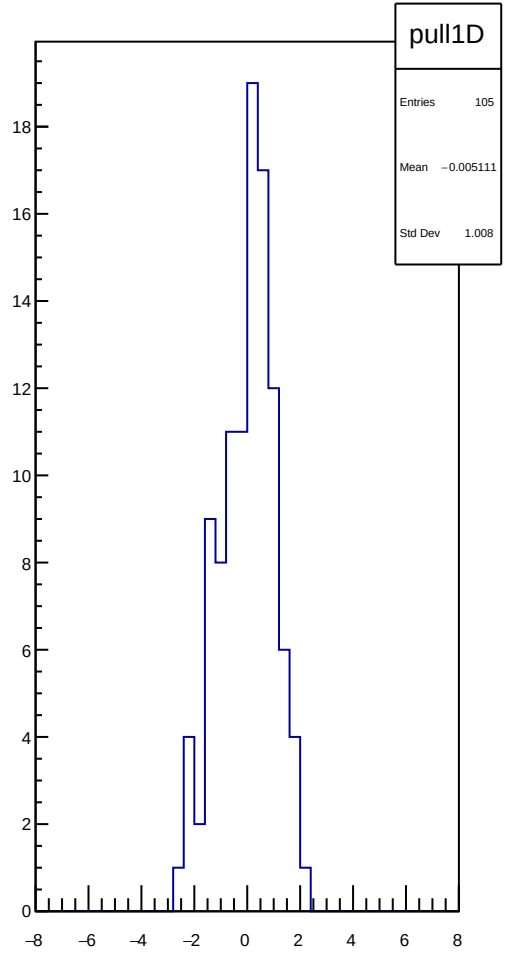

asym_sam_13_57_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.506e+05 / 104
p0 2.449e−11 ± 2.003e−14
0.12
0.1
0.08
0.06
0.04
0.02

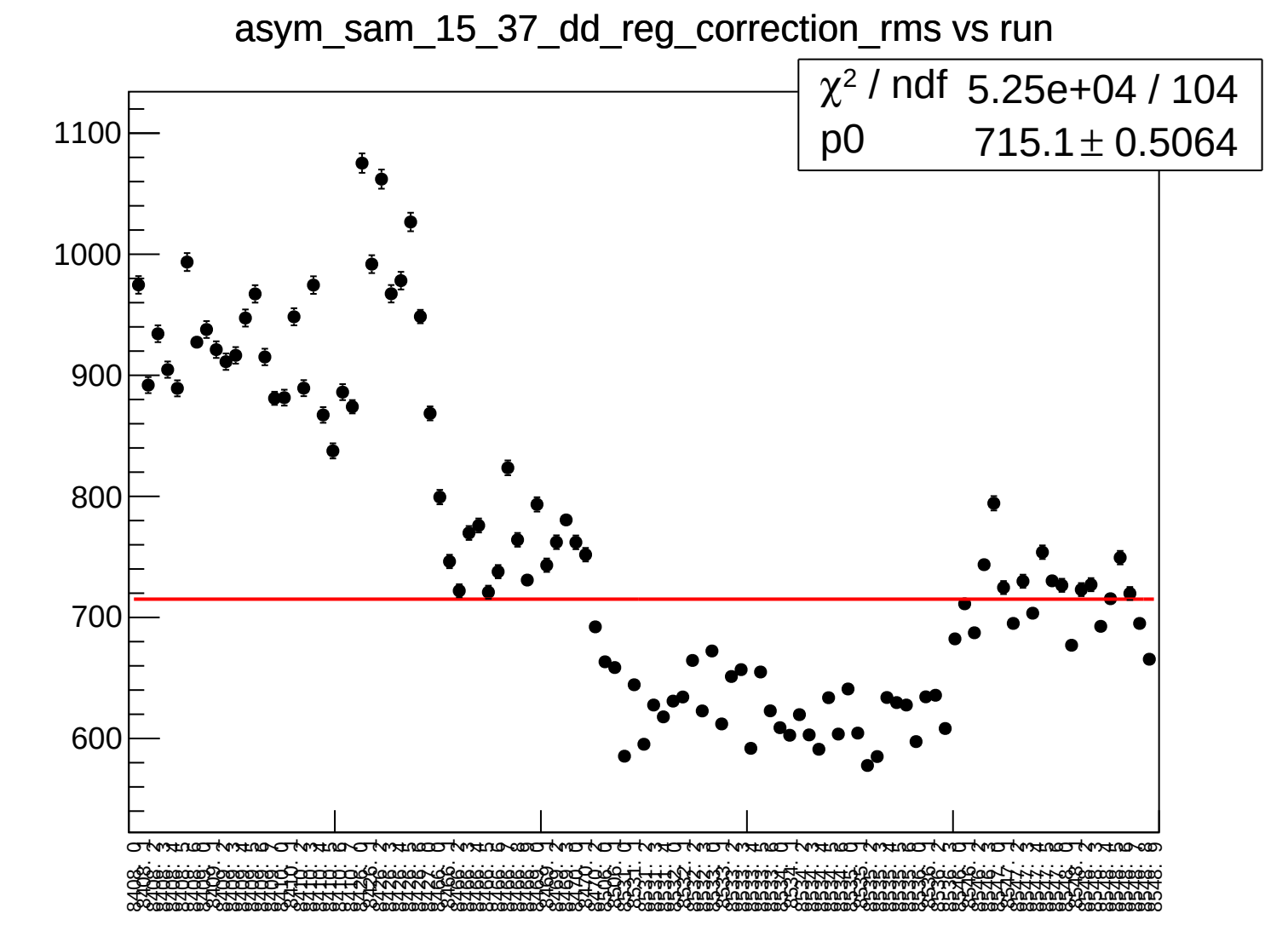

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 80.98 / 104
p0 78.48 ± 65.59
pull
Entries 105
Mean 234.6
Std Dev 0

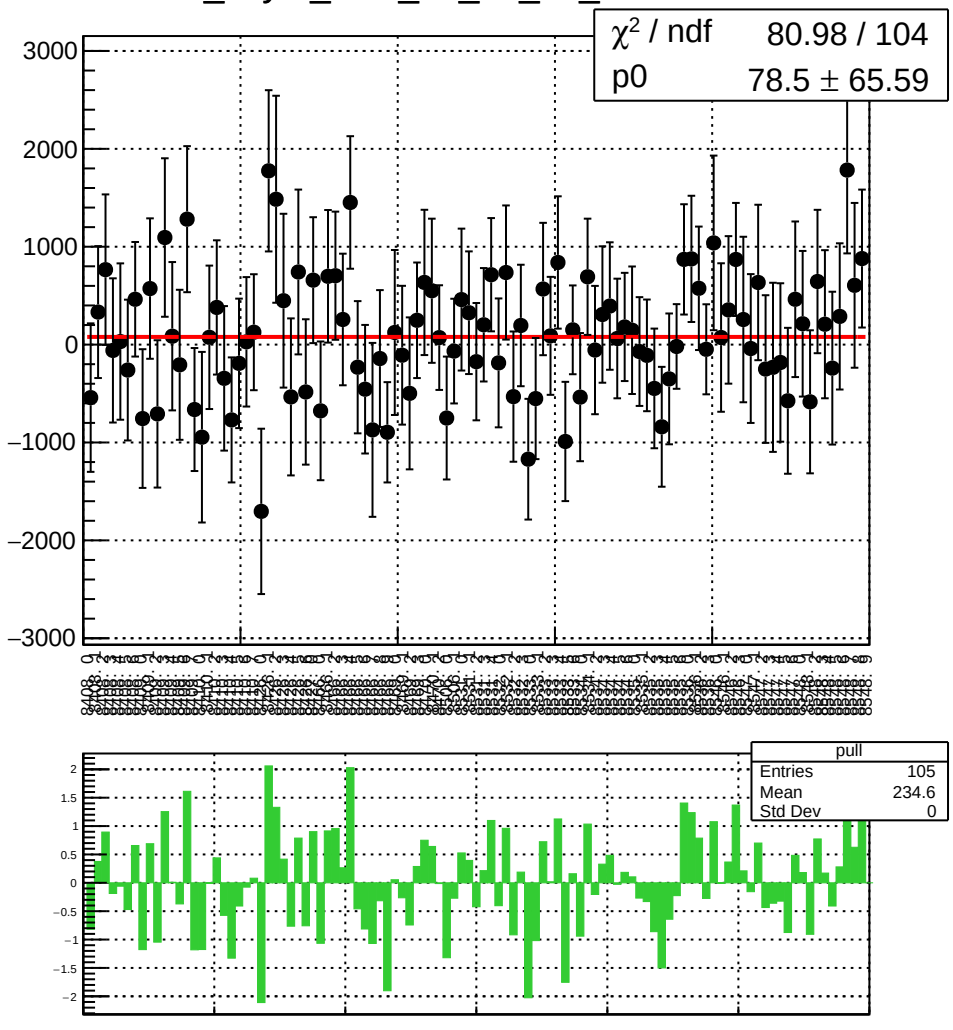

pull1D
Entries 105
Mean 0.01651
Std Dev 0.8781

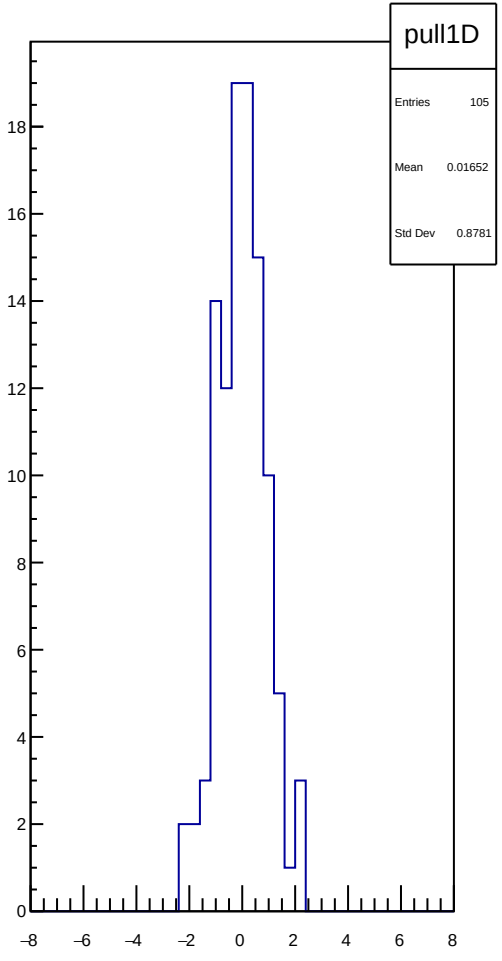

reg_asym_sam_15_37_dd_rms vs run
χ² / ndf 3.08e+04 / 104
p0 65.84 ± 0.04638
100
90
80
70
60
50

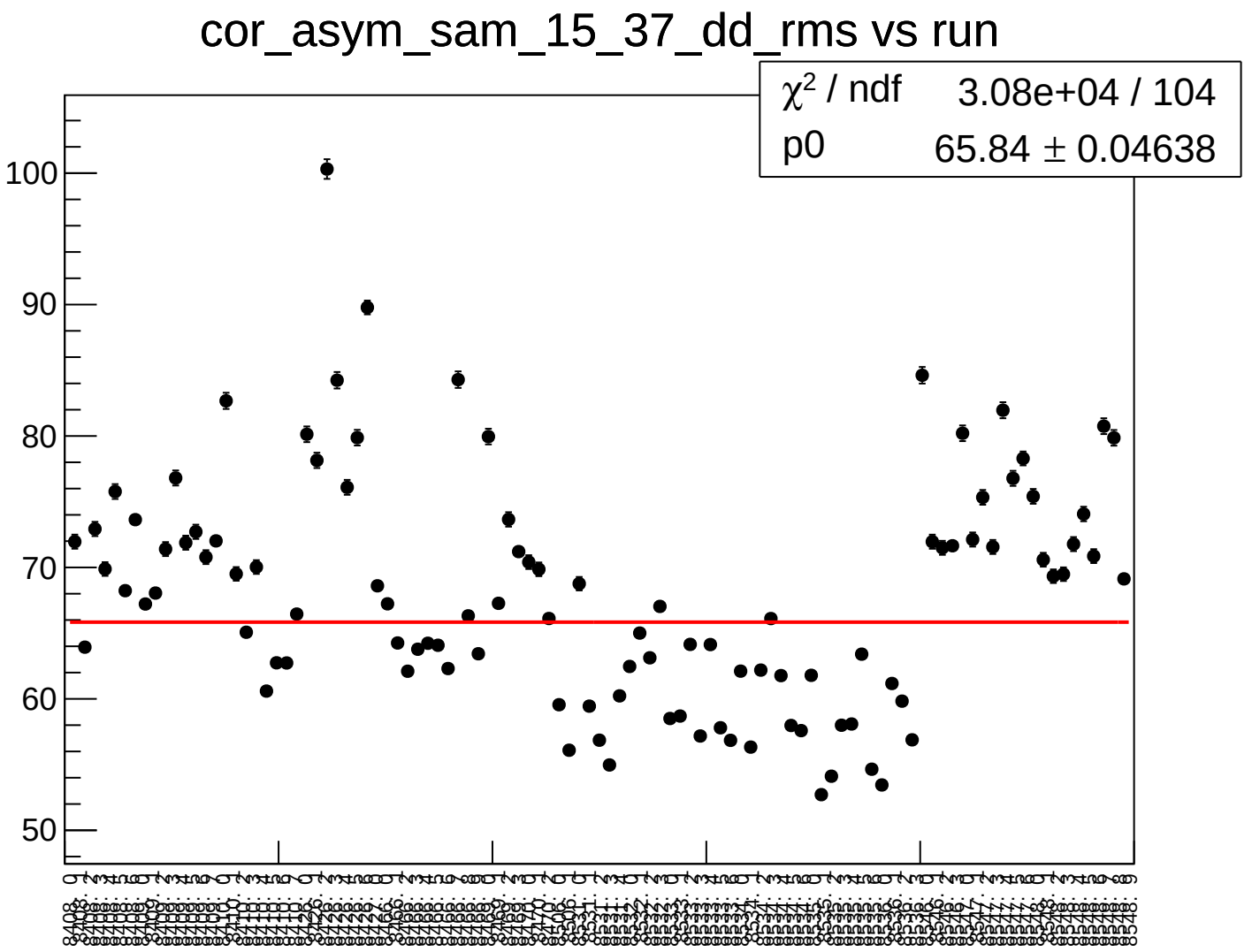

asym_sam_15_37_dd_reg_correction_mean vs run
χ² / ndf 106.7 / 104
p0 1918 ± 716.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 105
Mean −225.9
Std Dev 0
2
1
0
−1
−2

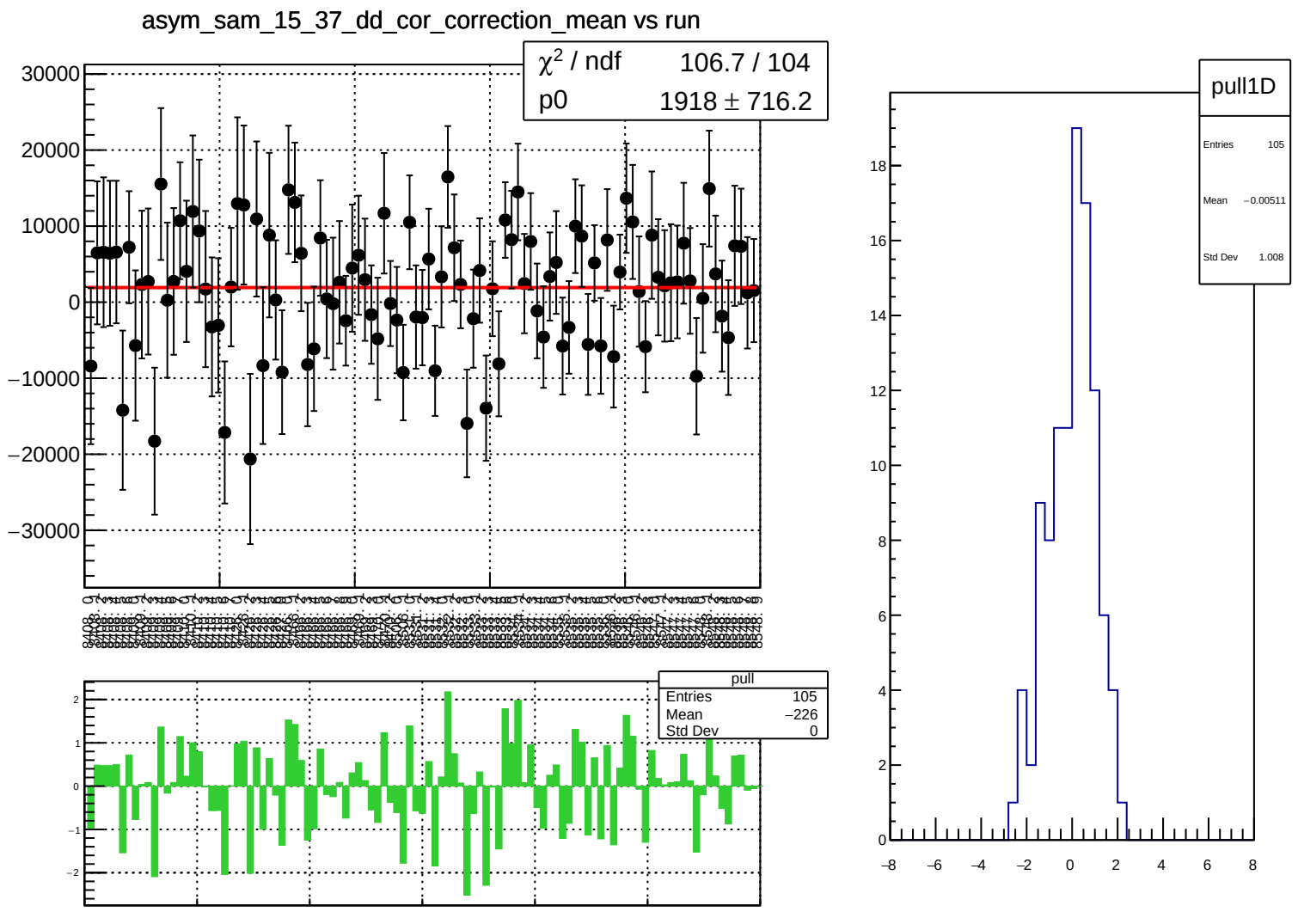

pull1D
Entries 105
Mean −0.005111
Std Dev 1.008
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

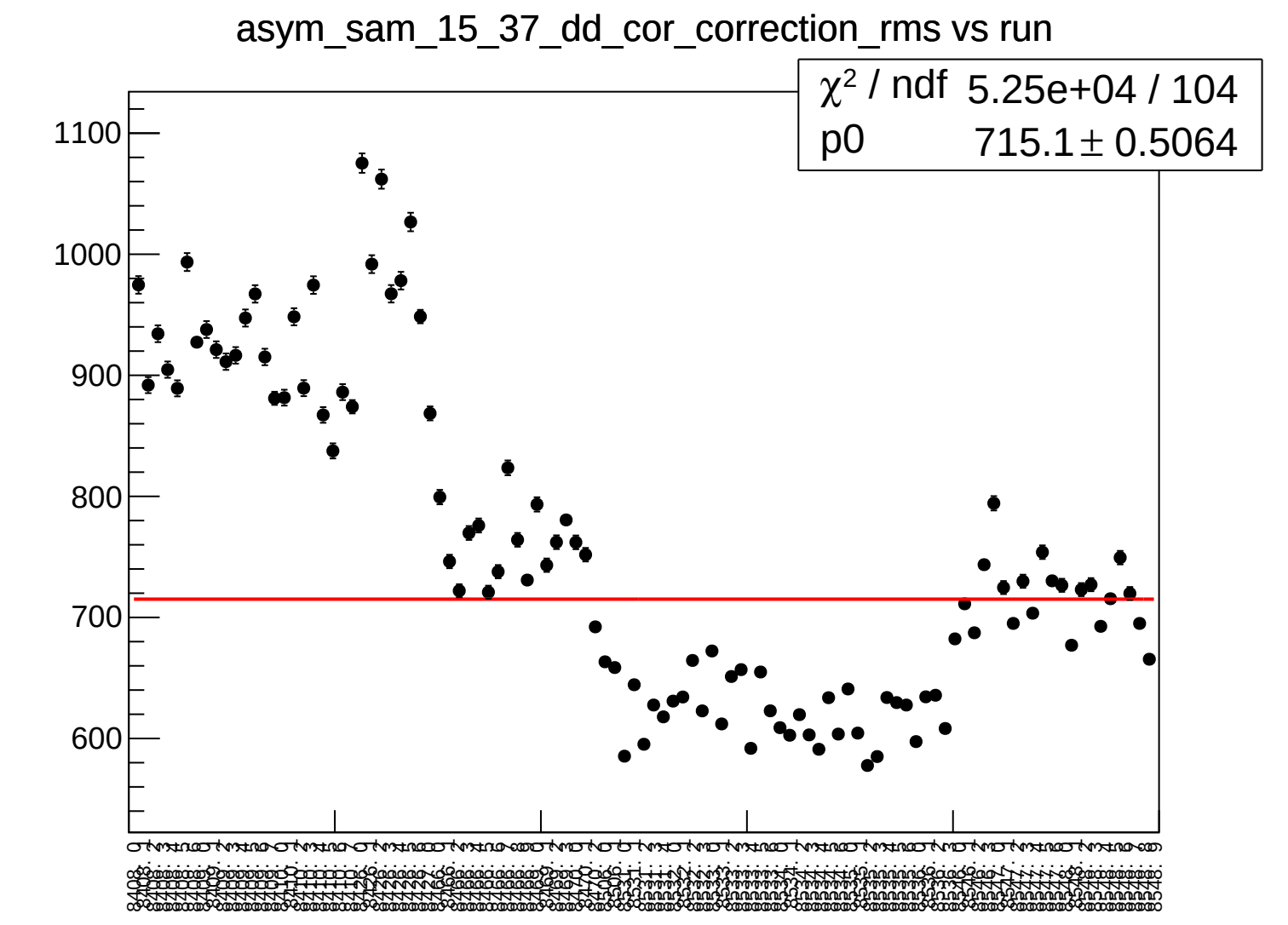

asym_sam_15_37_dd_reg_correction_rms vs run
χ² / ndf 5.25e+04 / 104
p0 715.1 ± 0.5064
1100
1000
900
800
700
600

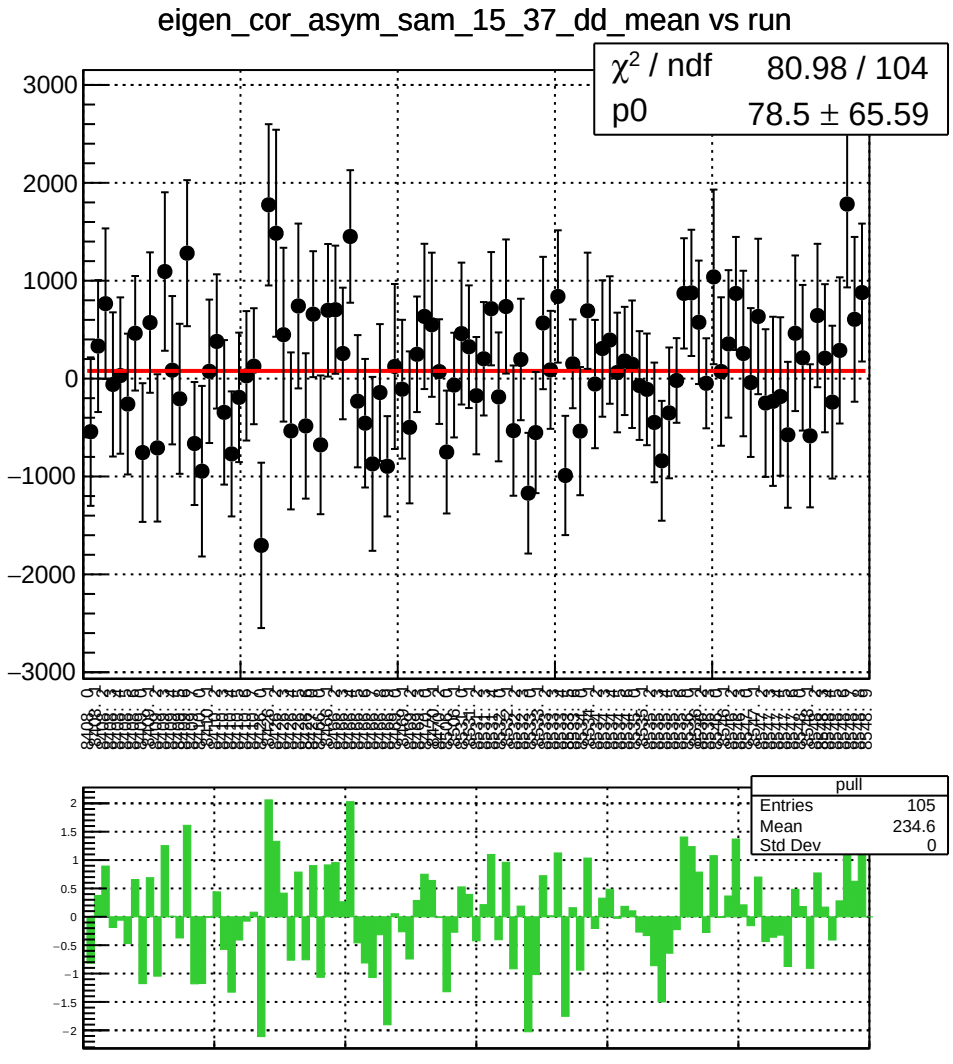

cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 80.98 / 104
p0 78.5 ± 65.59
pull
Entries 105
Mean 234.6
Std Dev 0

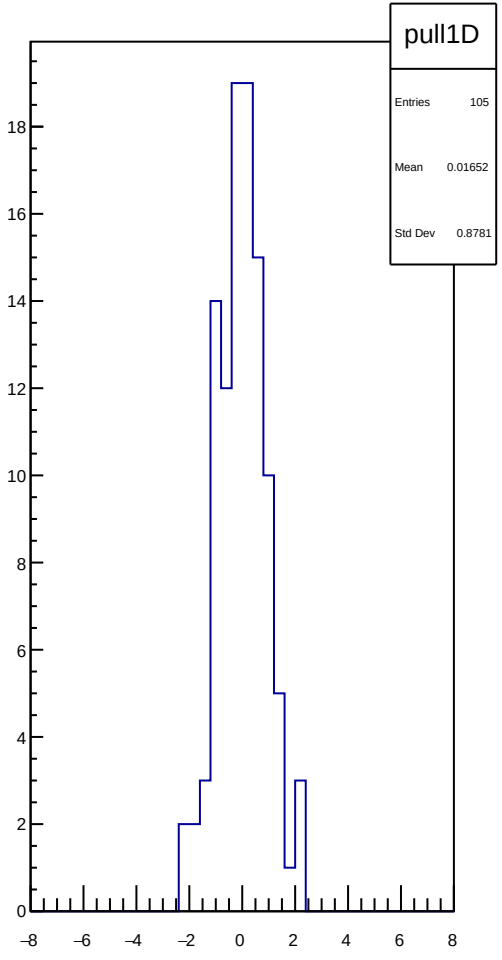

pull1D
Entries 105
Mean 0.01652
Std Dev 0.8781


cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 3.08e+04 / 104
p0 65.84 ± 0.04638
100
90
80
70
60
50


asym_sam_15_37_dd_cor_correction_mean vs run
χ² / ndf 106.7 / 104
p0 1918 ± 716.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 105
Mean −226
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.00511
Std Dev 1.008
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_15_37_dd_cor_correction_rms vs run
χ² / ndf 5.25e+04 / 104
p0 715.1 ± 0.5064
1100
1000
900
800
700
600


eigen_cor_asym_sam_15_37_dd_mean vs run
χ² / ndf 80.98 / 104
p0 78.5 ± 65.59
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 105
Mean 234.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 105
Mean 0.01652
Std Dev 0.8781
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
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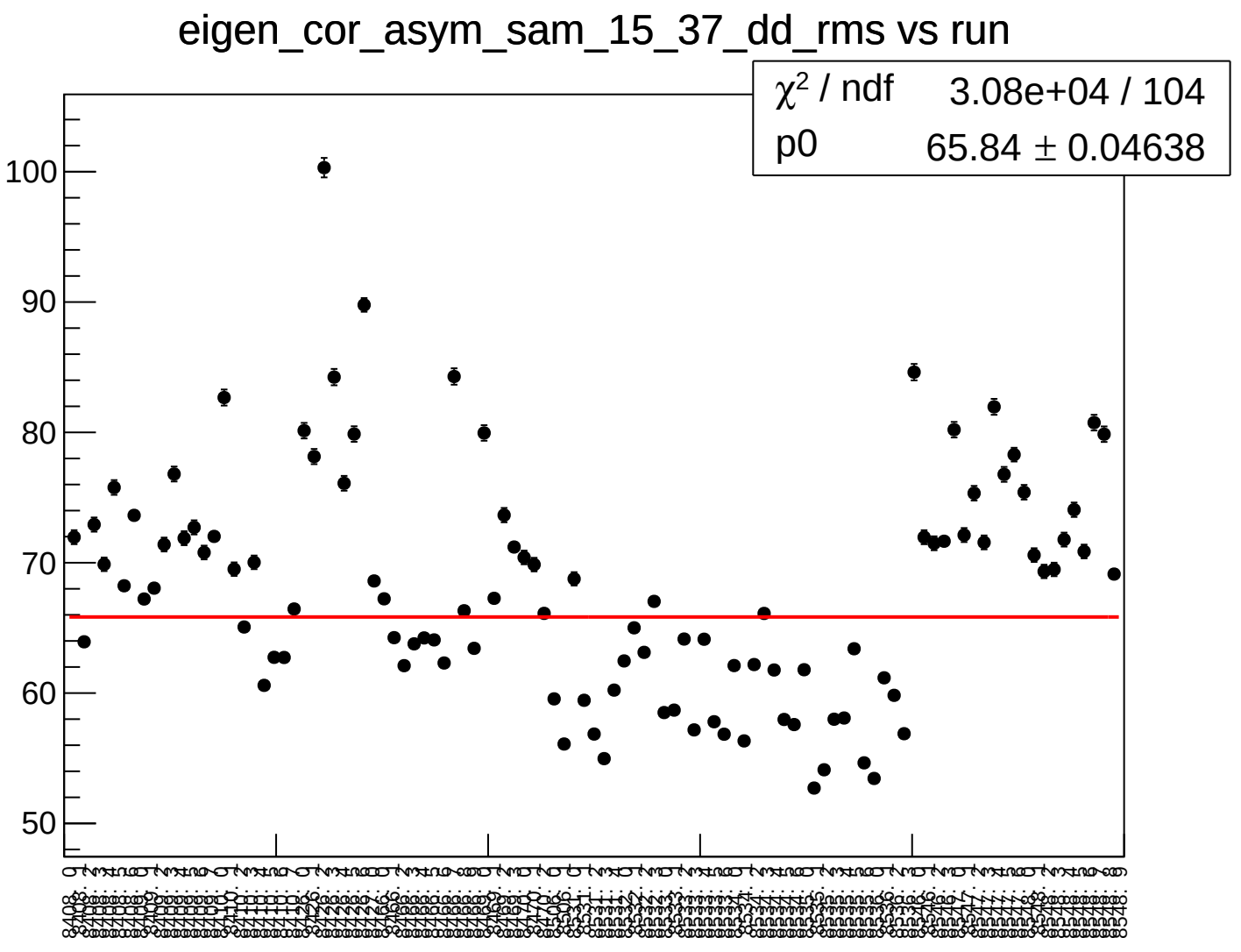
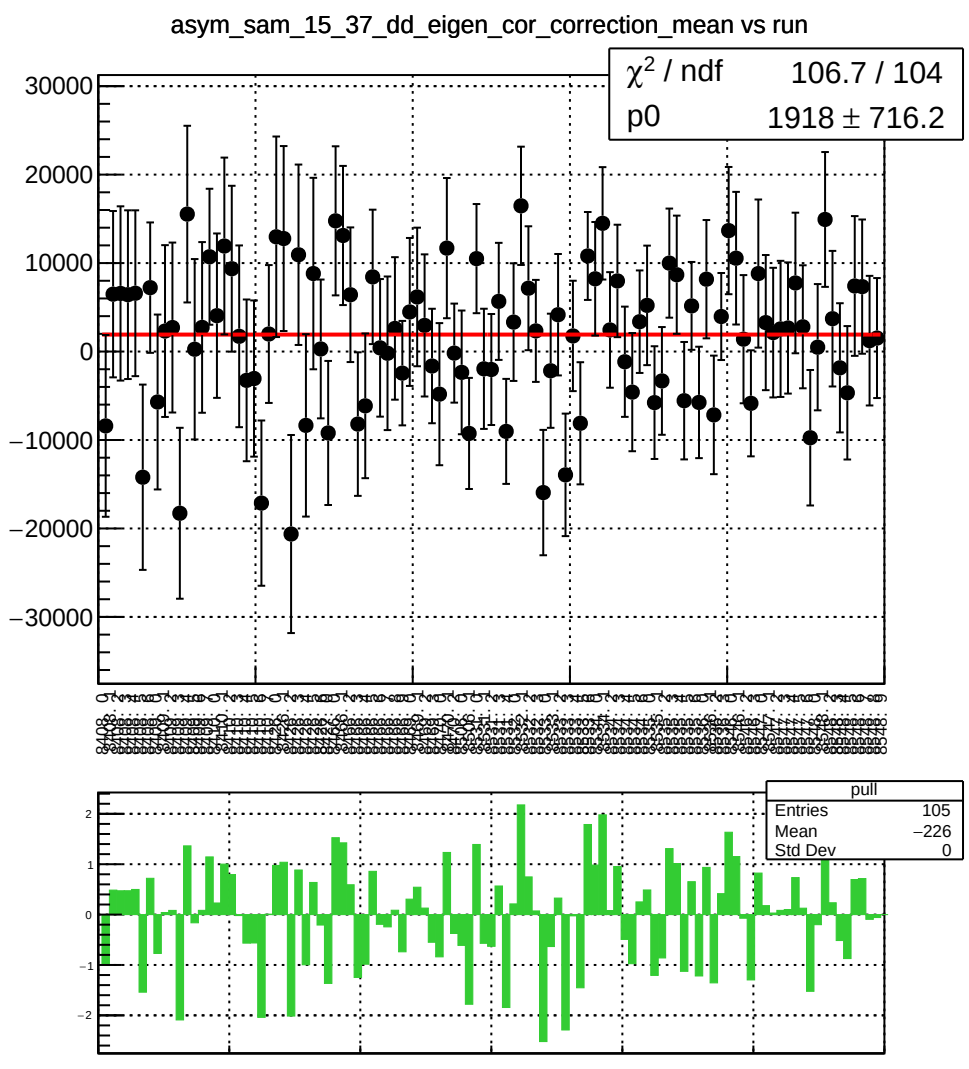
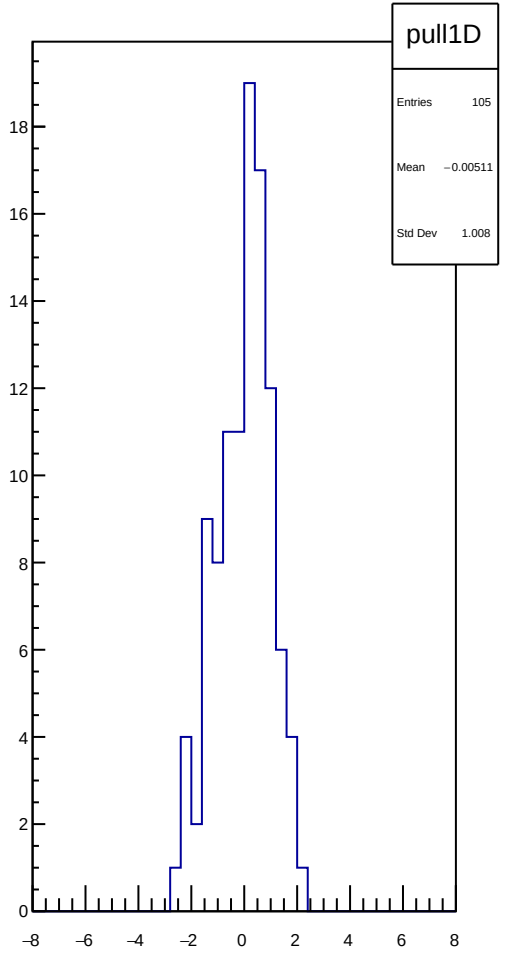
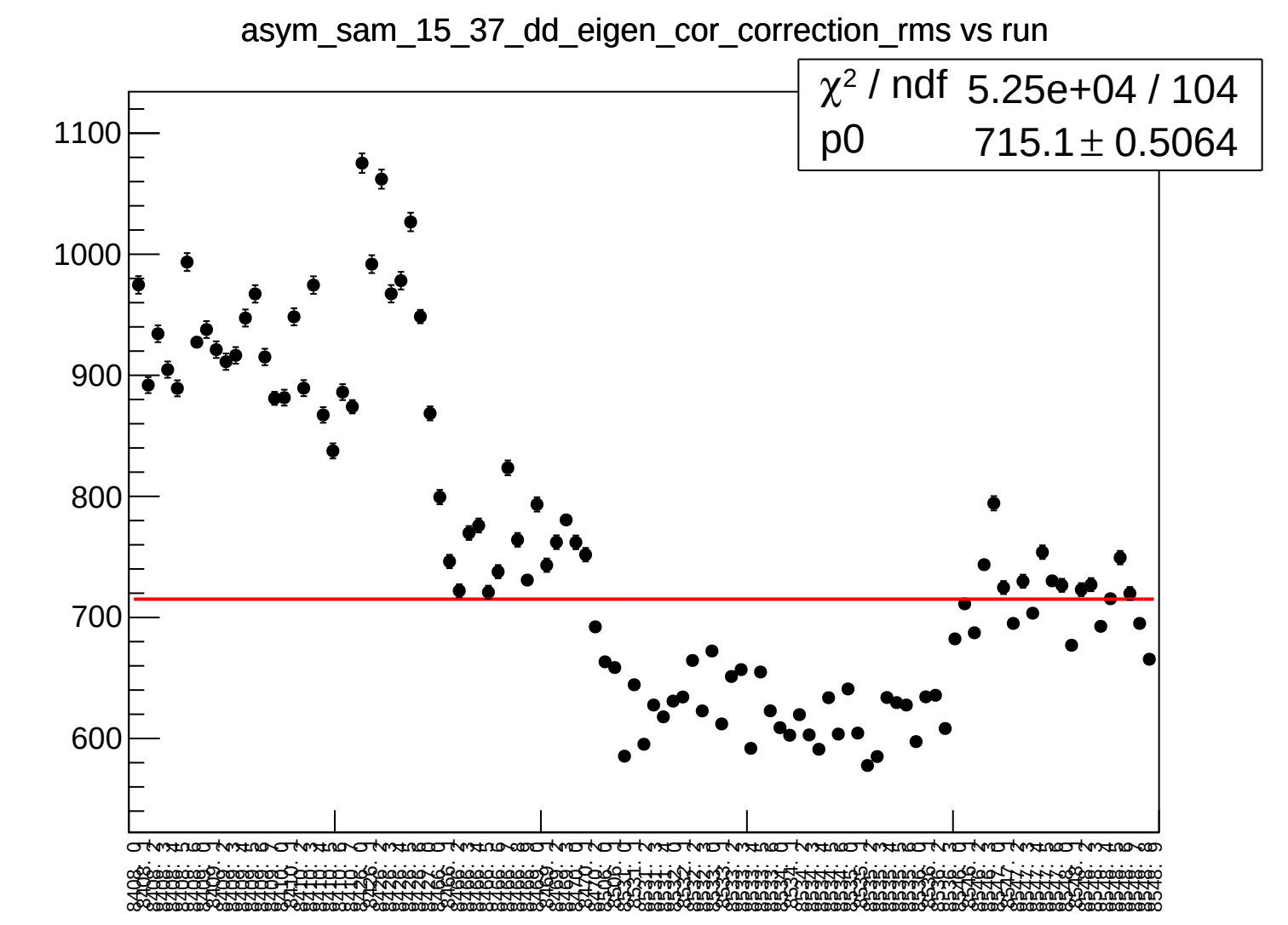
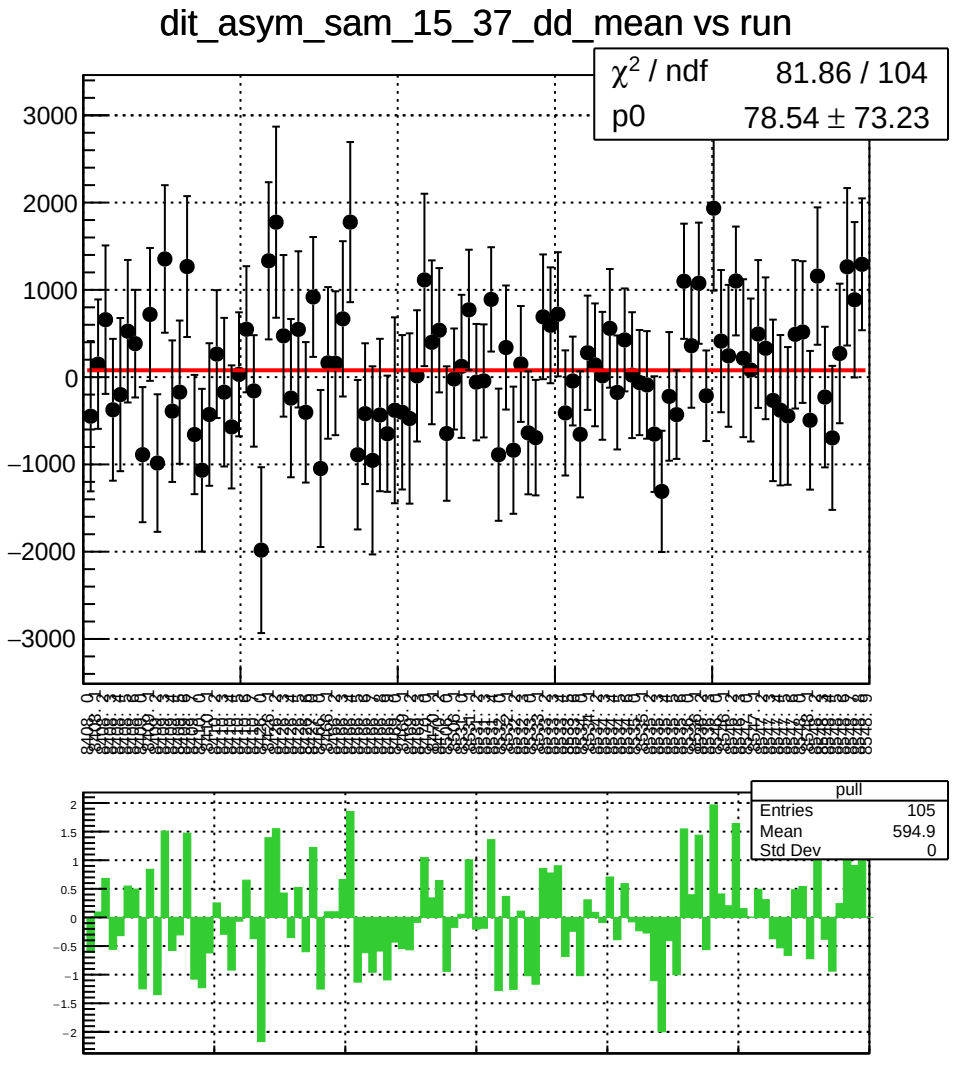
0
2
4
6
8

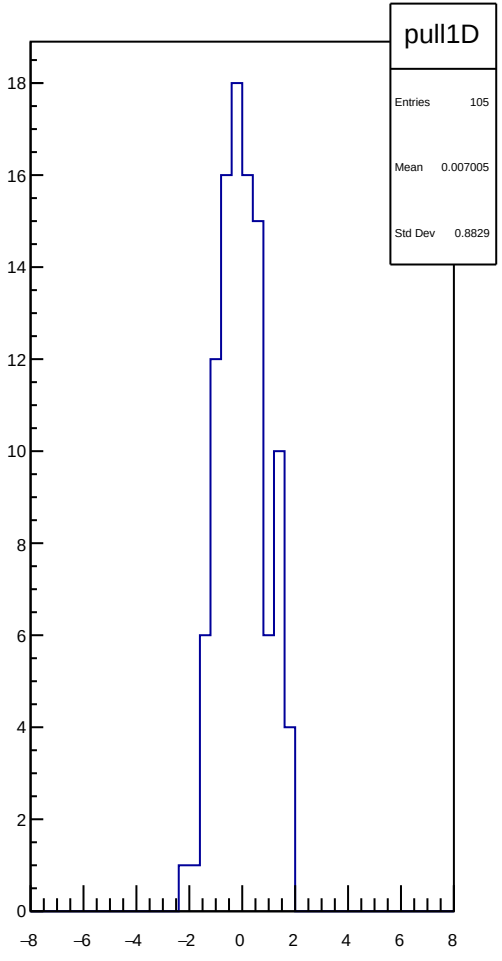

eigen_cor_asym_sam_15_37_dd_rms vs run
χ² / ndf 3.08e+04 / 104
p0 65.84 ± 0.04638
100
90
80
70
60
50

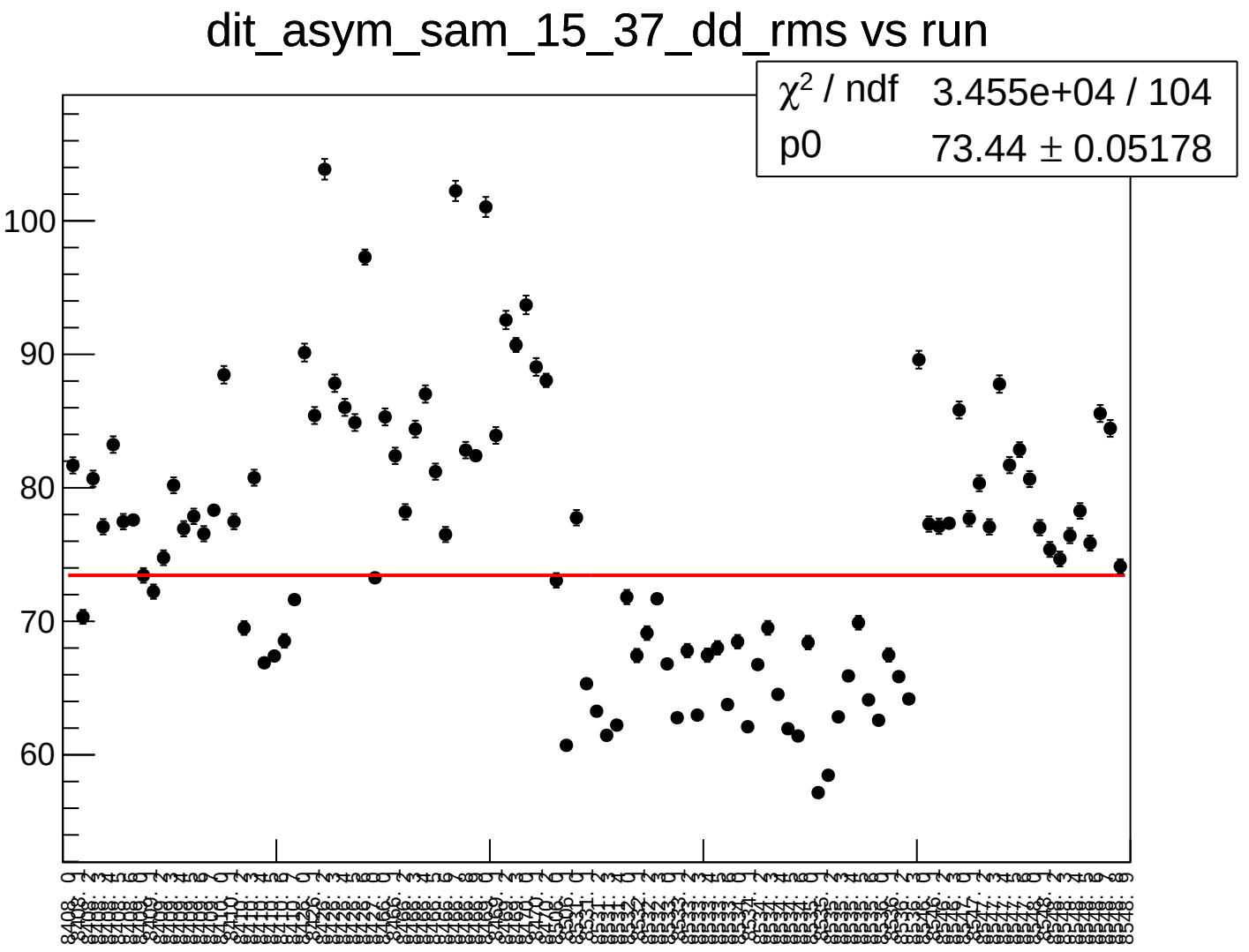

asym_sam_15_37_dd_eigen_cor_correction_mean vs run
χ² / ndf 106.7 / 104
p0 1918 ± 716.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 105
Mean −226
Std Dev 0
2
1
0
−1
−2

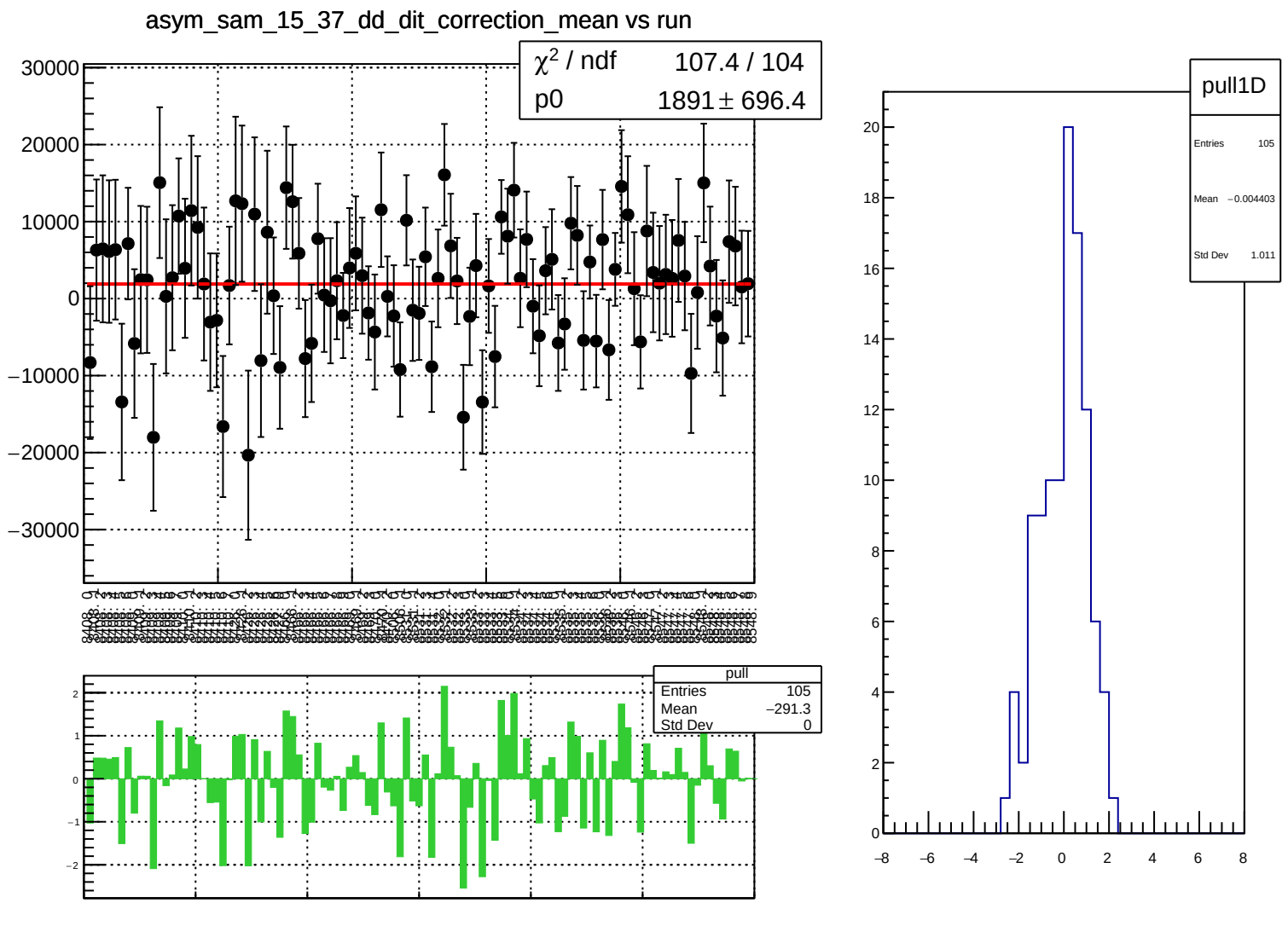

pull1D
Entries 105
Mean −0.00511
Std Dev 1.008
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

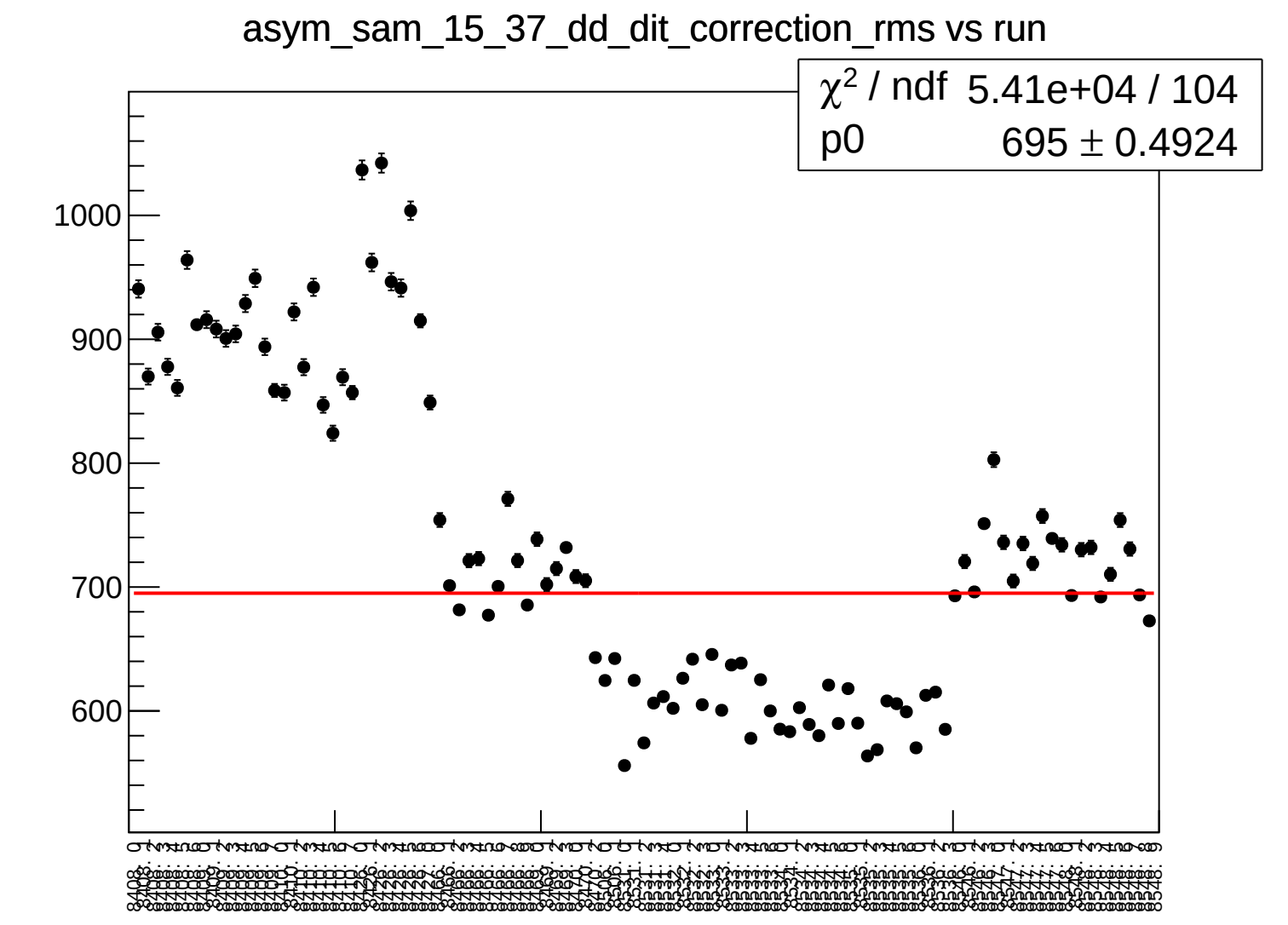

asym_sam_15_37_dd_eigen_cor_correction_rms vs run
χ² / ndf 5.25e+04 / 104
p0 715.1 ± 0.5064
1100
1000
900
800
700
600

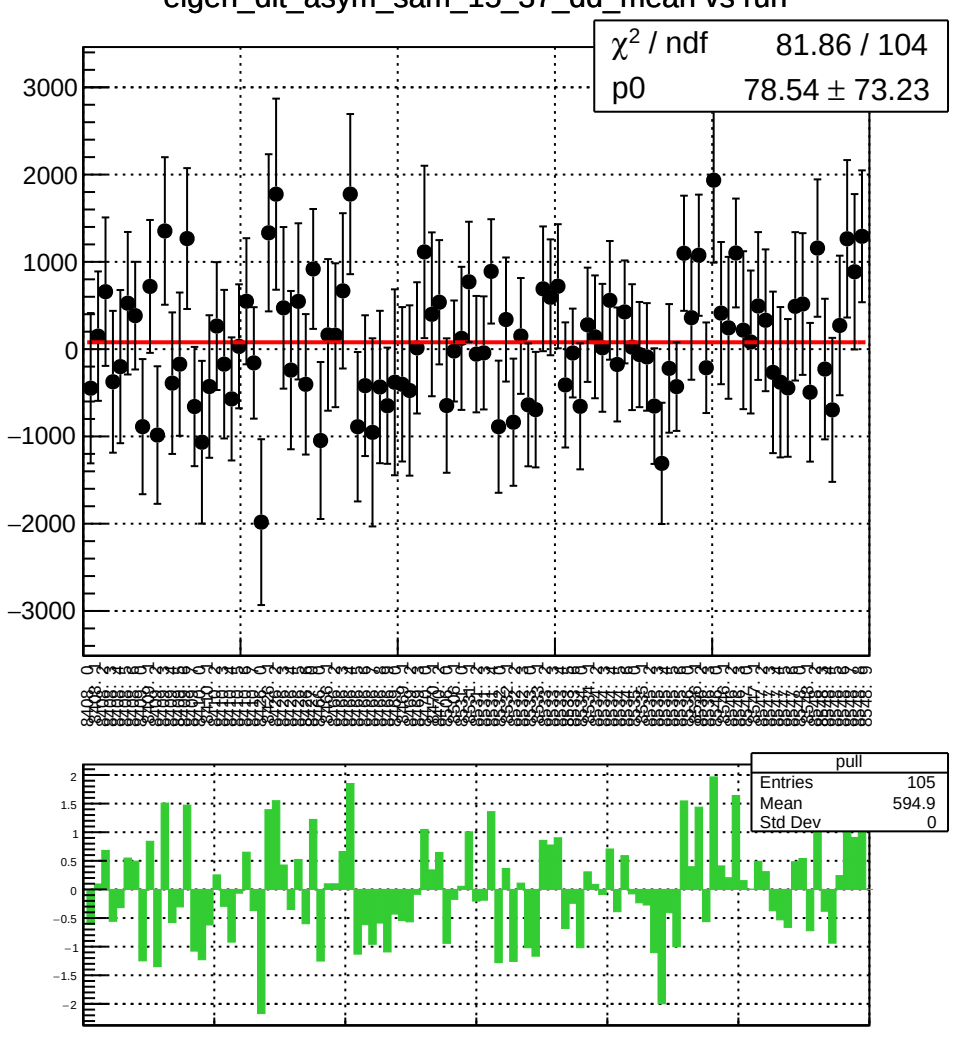

dit_asym_sam_15_37_dd_mean vs run
χ² / ndf 81.86 / 104
p0 78.54 ± 73.23
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 105
Mean 594.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

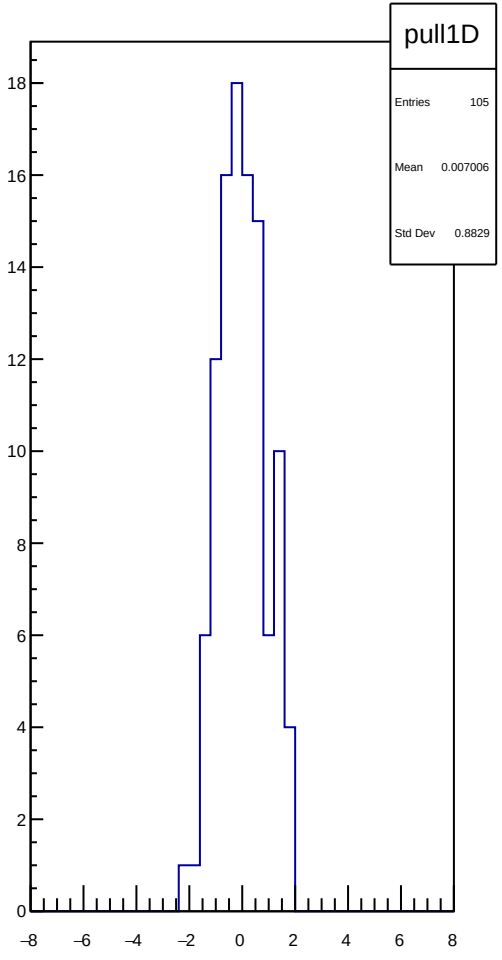

pull1D
Entries 105
Mean 0.007005
Std Dev 0.8829
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

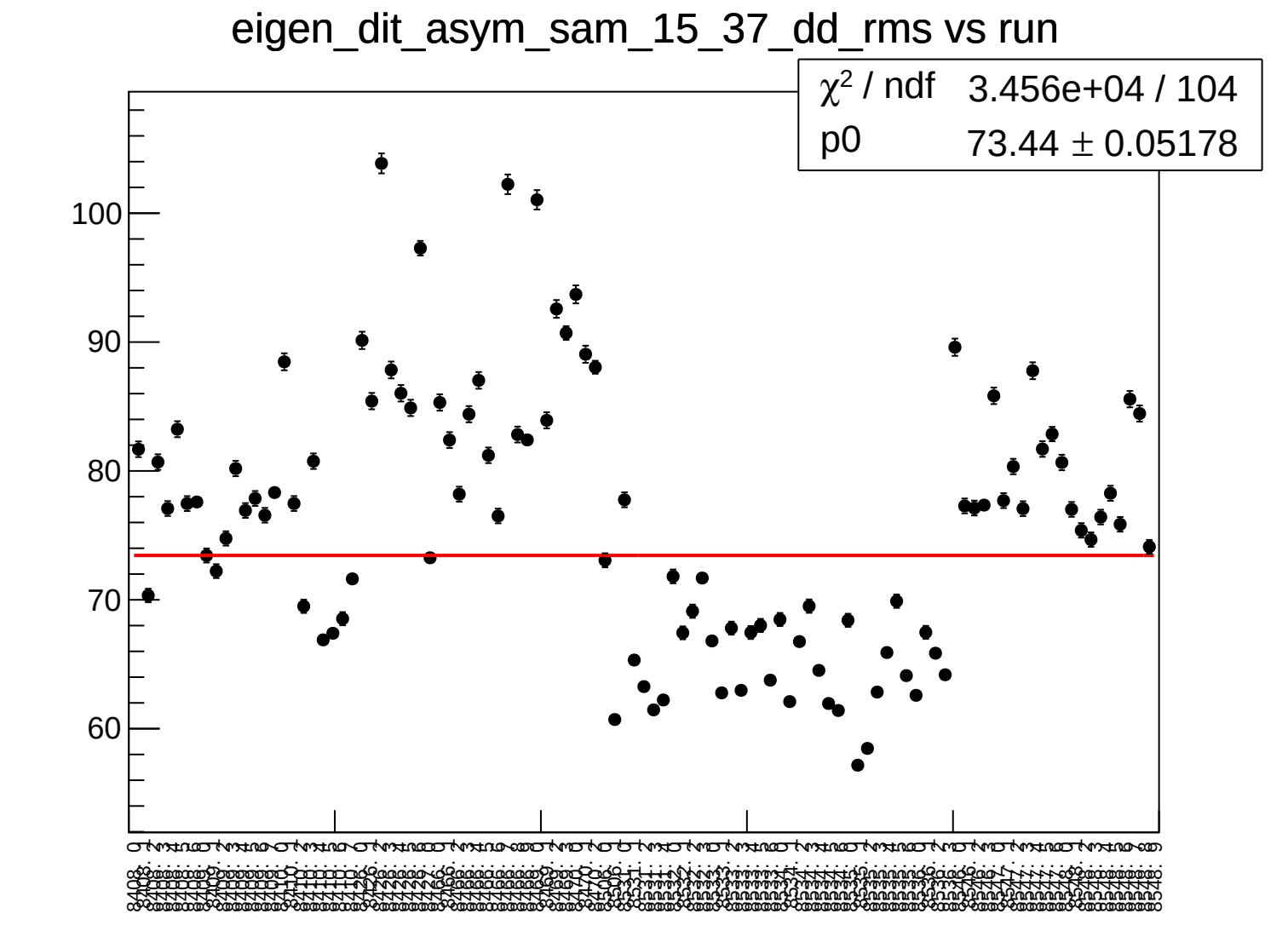

dit_asym_sam_15_37_dd_rms vs run
χ² / ndf 3.455e+04 / 104
p0 73.44 ± 0.05178
100
90
80
70
60

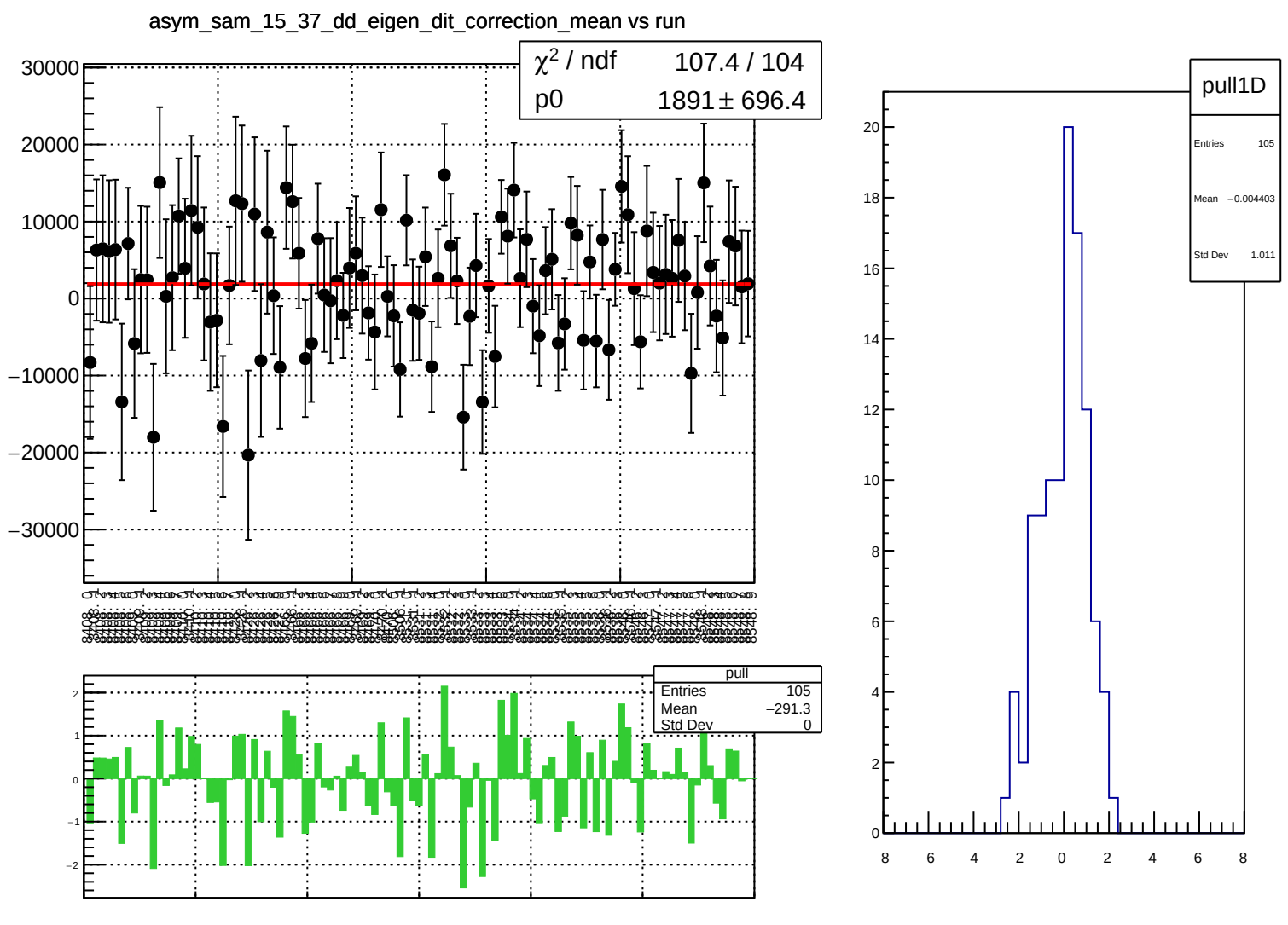

asym_sam_15_37_dd_dit_correction_mean vs run
χ² / ndf 107.4 / 104
p0 1891 ± 696.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 105
Mean −291.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.004403
Std Dev 1.011
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

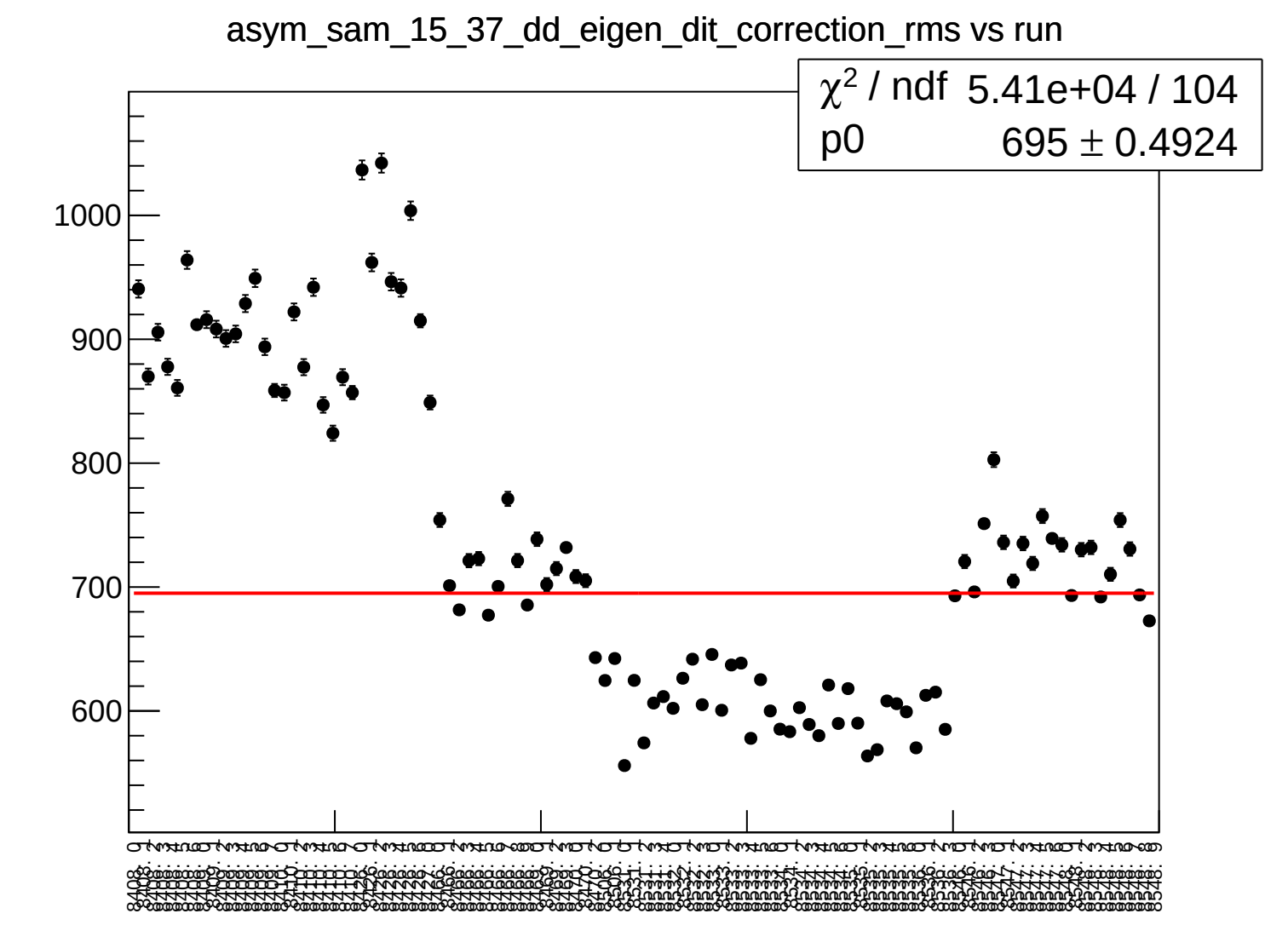

asym_sam_15_37_dd_dit_correction_rms vs run
χ² / ndf 5.41e+04 / 104
p0 695 ± 0.4924
1000
900
800
700
600

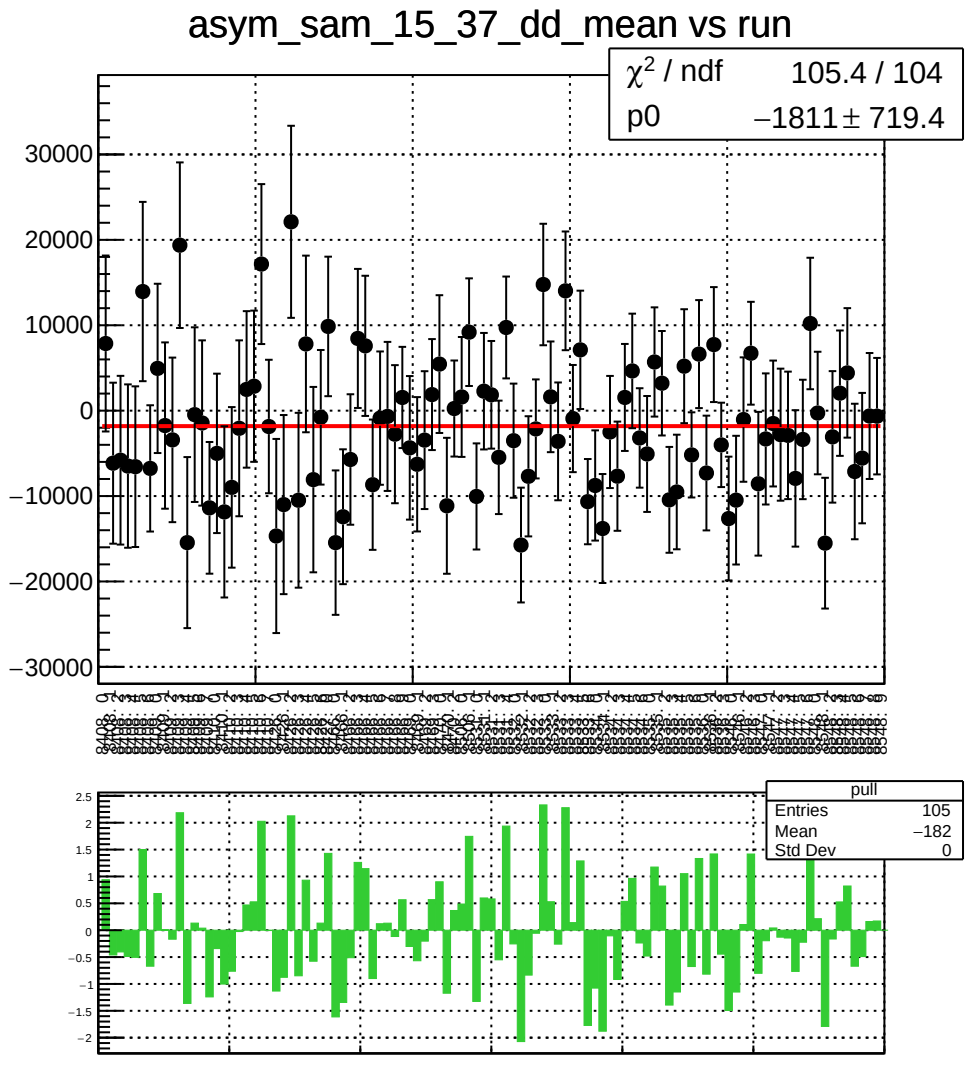

eigen_dit_asym_sam_15_37_dd_mean vs run
χ^2 / ndf 81.86 / 104
p0 78.54 ± 73.23
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 105
Mean 594.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

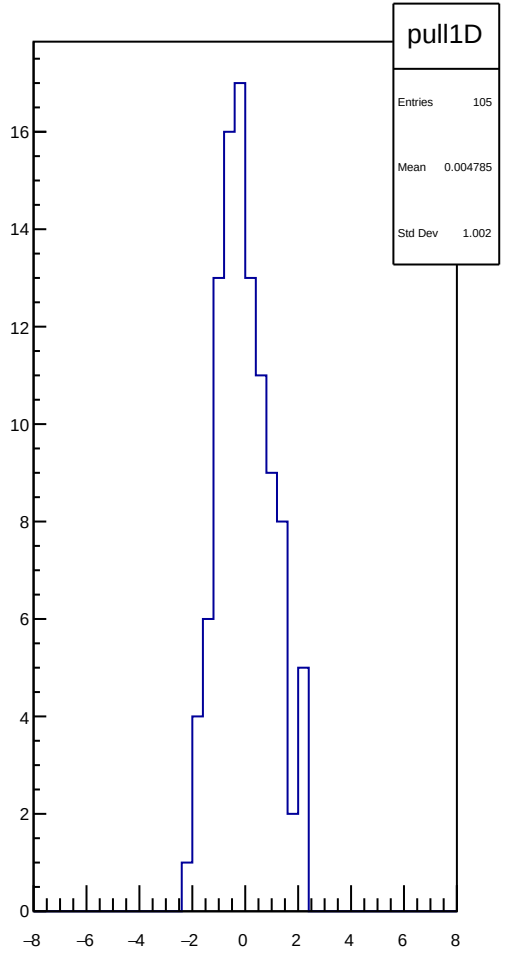

pull1D
Entries 105
Mean 0.007006
Std Dev 0.8829
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

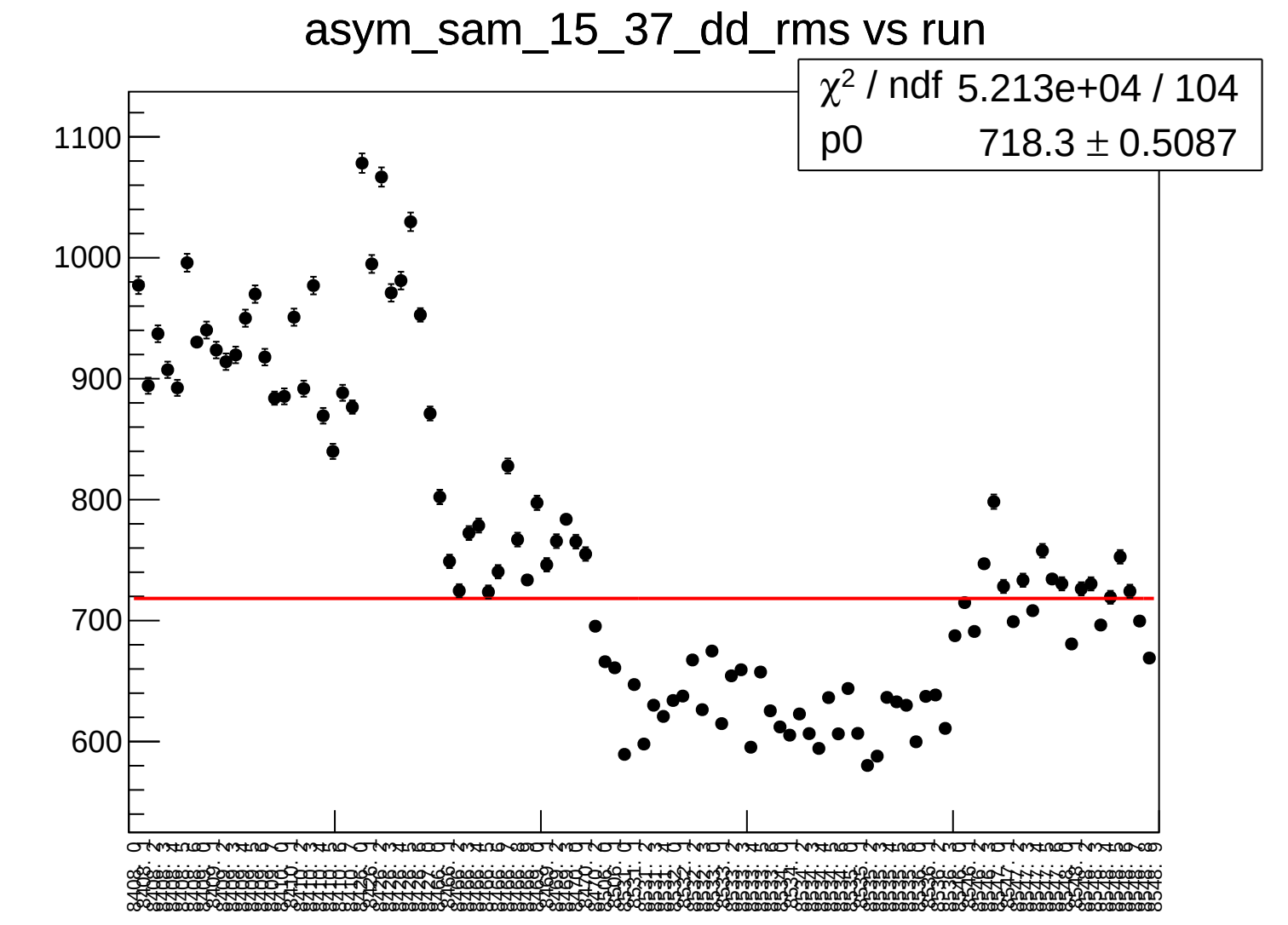

eigen_dit_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 3.456e+04 / 104
p0 73.44 ± 0.05178
100
90
80
70
60

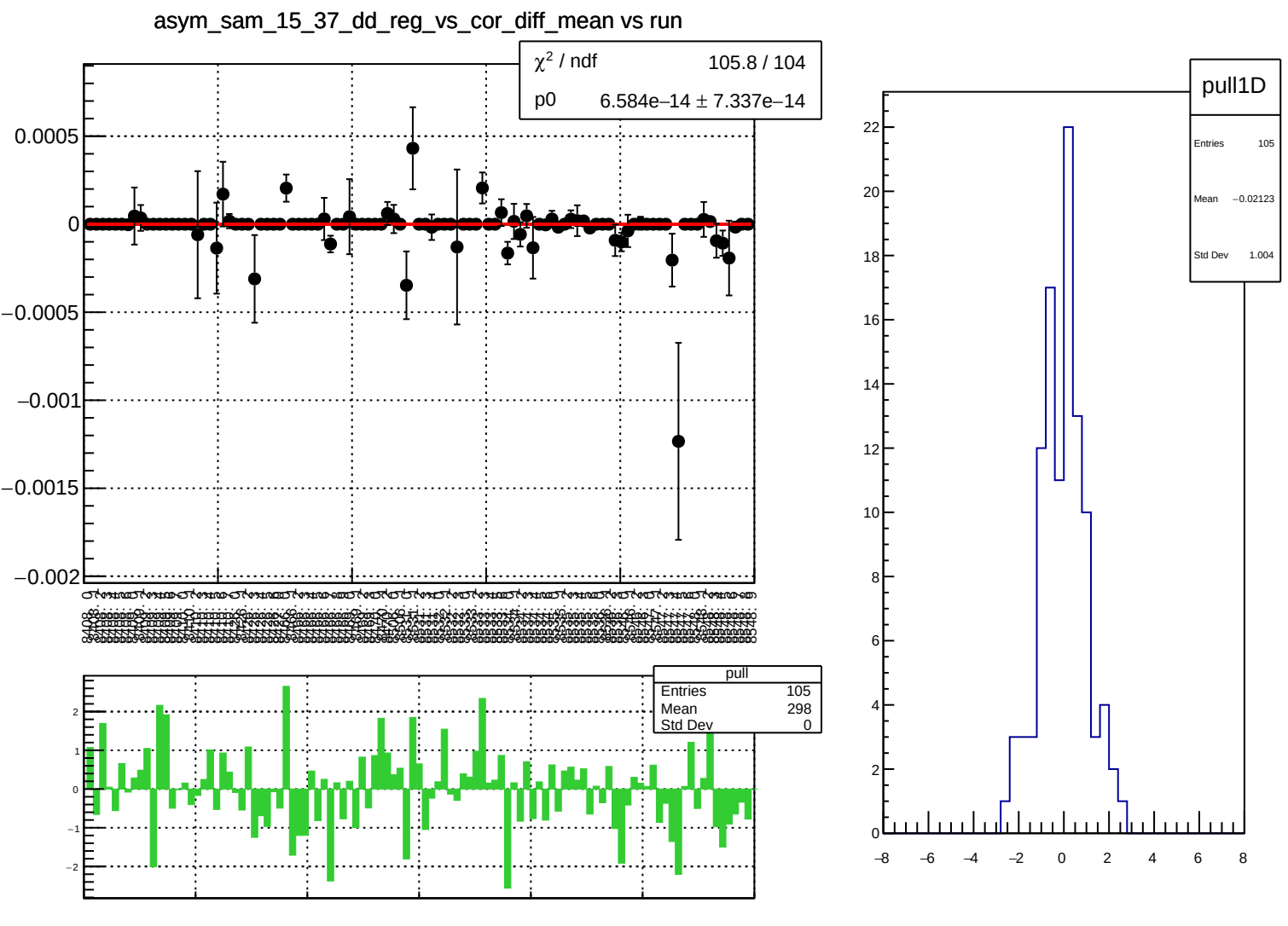

asym_sam_15_37_dd_eigen_dit_correction_mean vs run
χ² / ndf 107.4 / 104
p0 1891 ± 696.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 105
Mean −291.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.004403
Std Dev 1.011
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

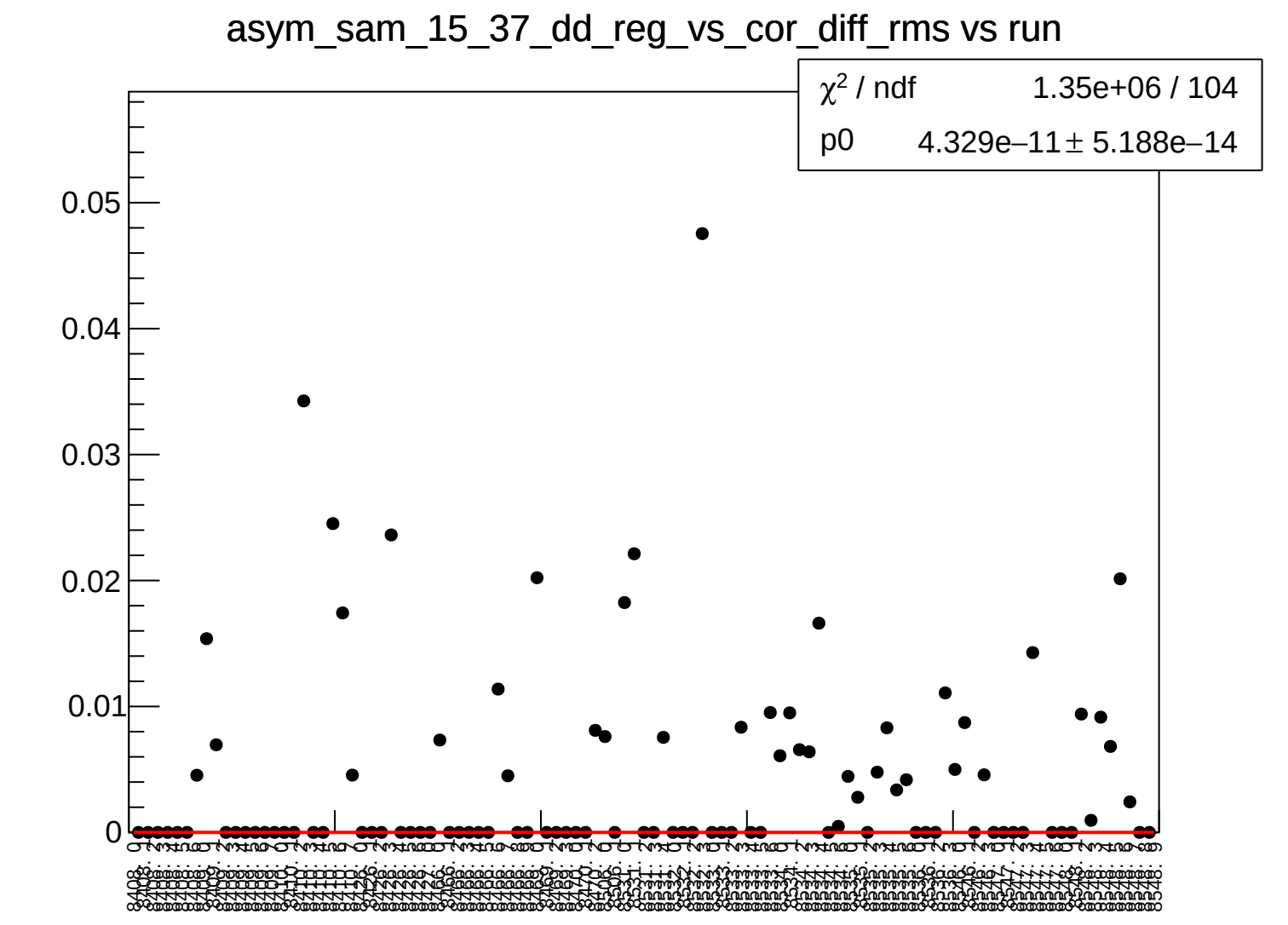

asym_sam_15_37_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 5.41e+04 / 104
p0 695 ± 0.4924
1000
900
800
700
600

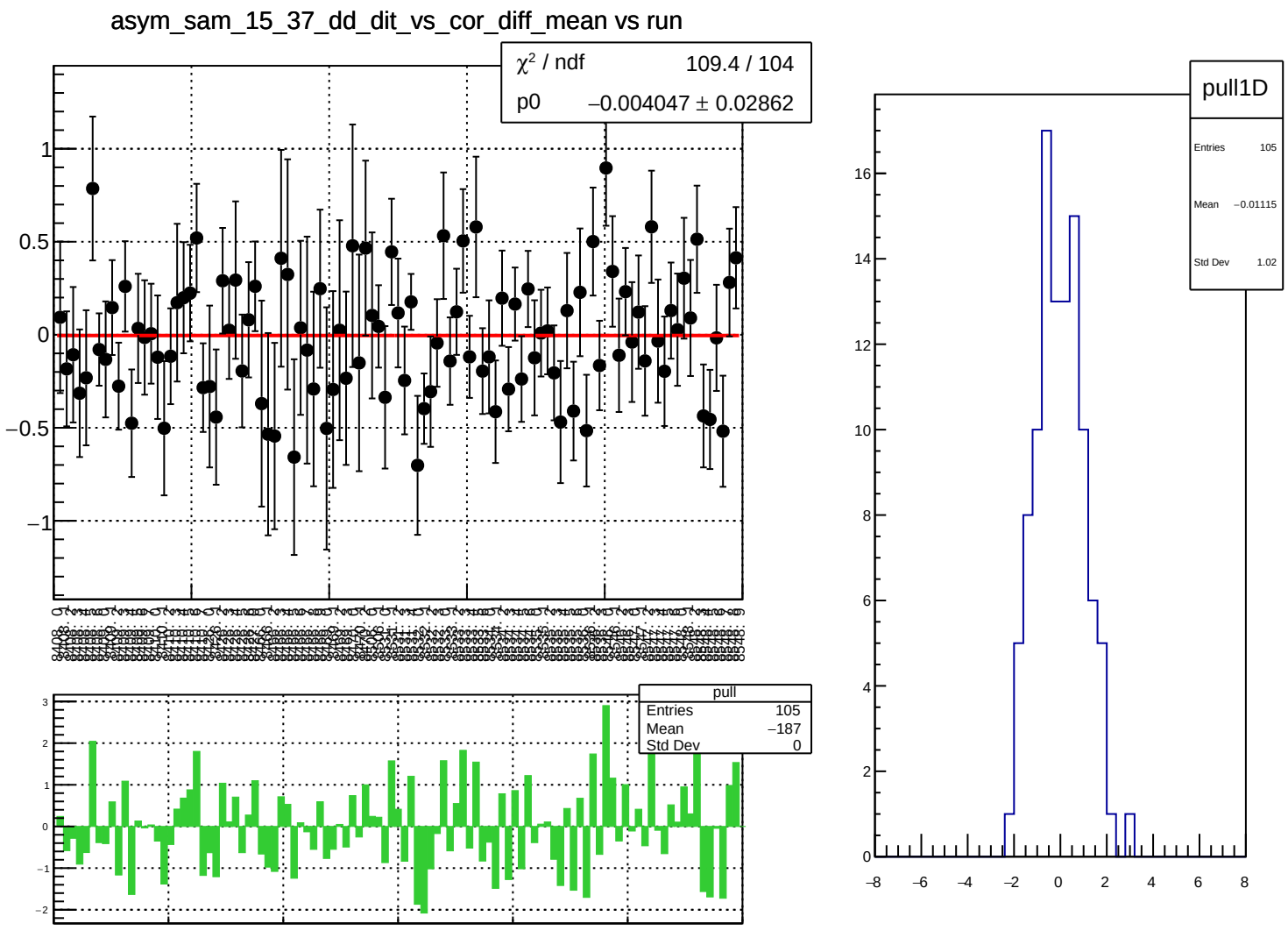

asym_sam_15_37_dd_mean vs run
χ² / ndf 105.4 / 104
p0 −1811 ± 719.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 105
Mean −182
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

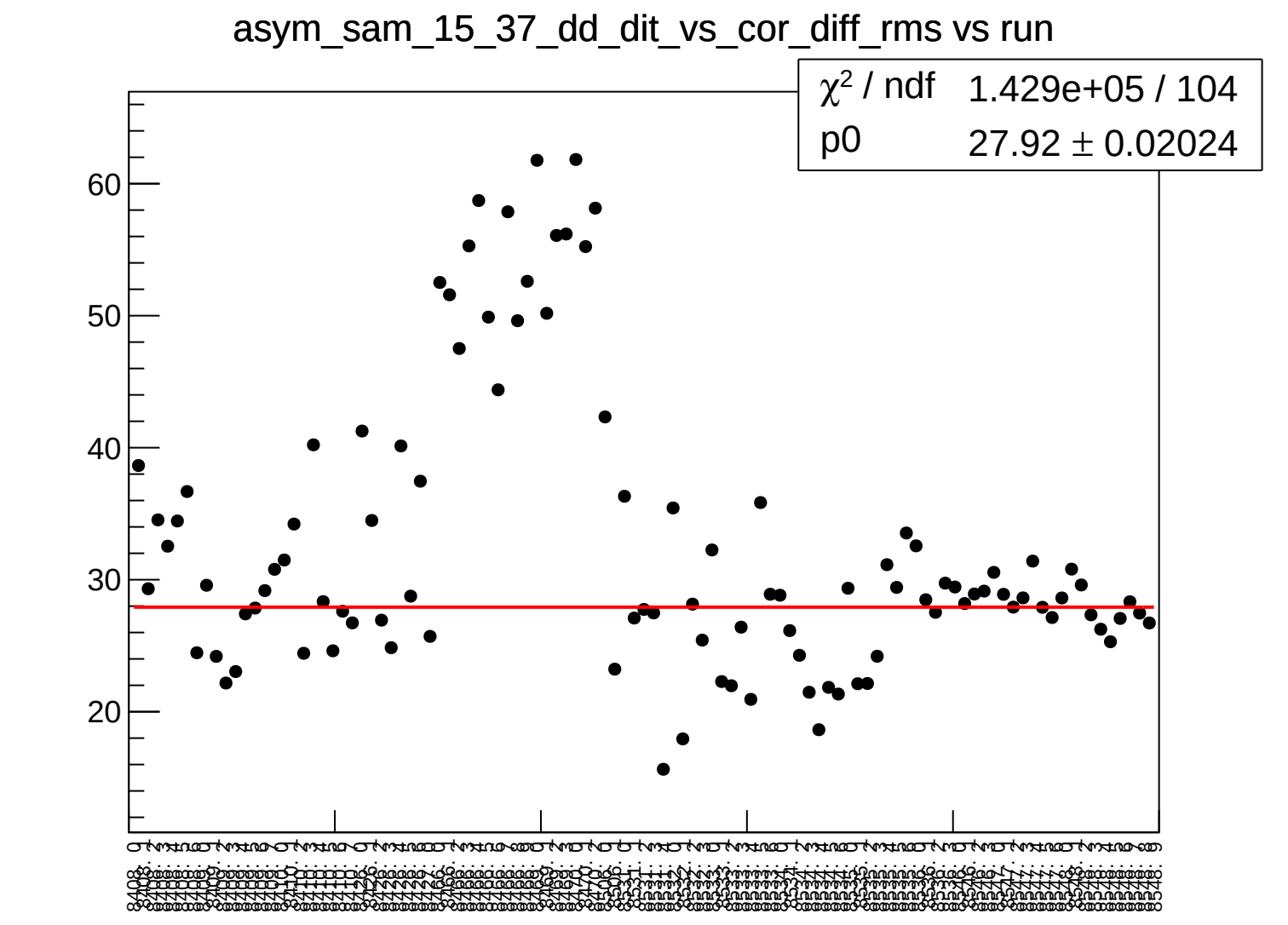

pull1D
Entries 105
Mean 0.004785
Std Dev 1.002
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

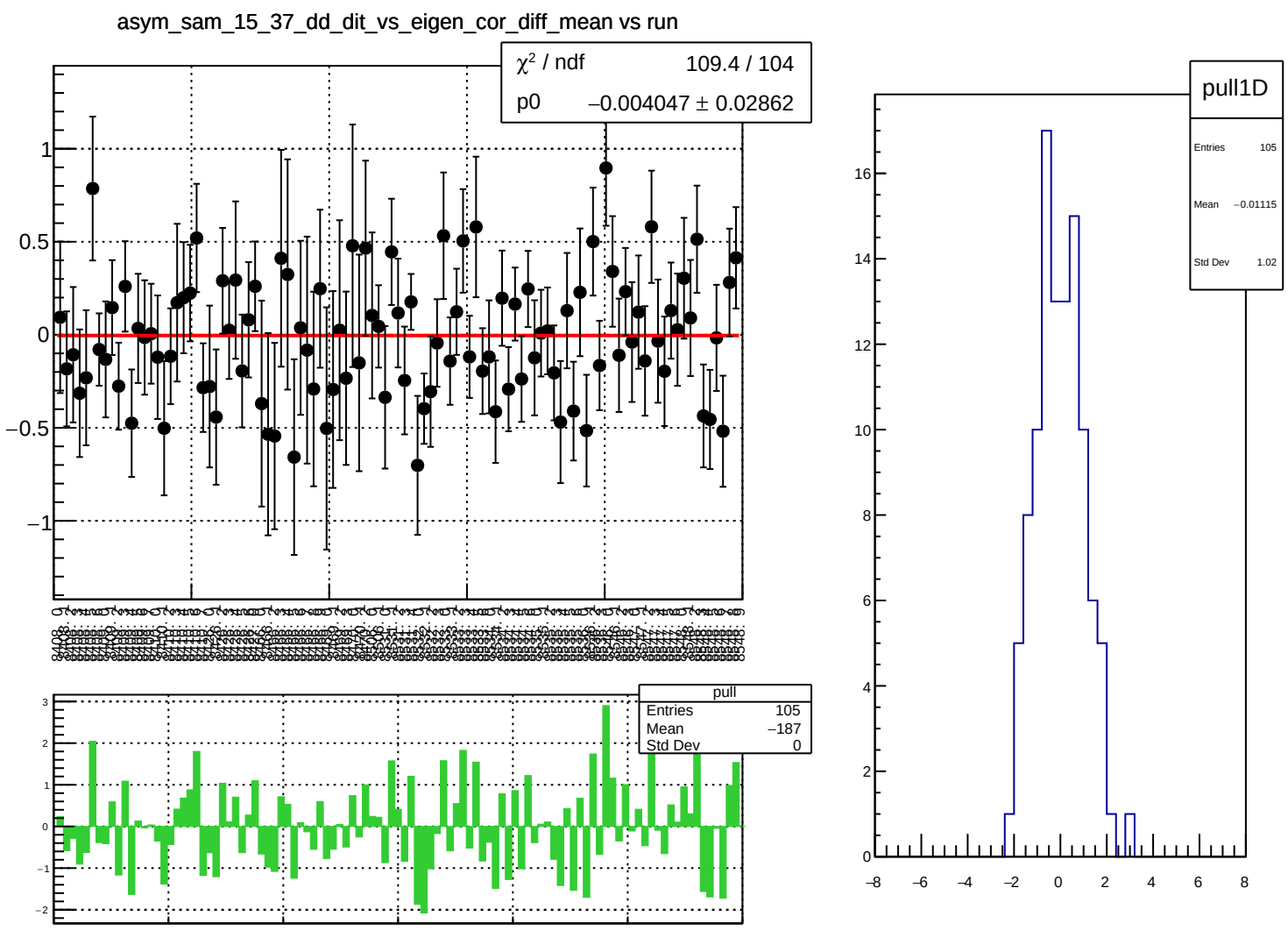

asym_sam_15_37_dd_rms vs run
χ² / ndf 5.213e+04 / 104
p0 718.3 ± 0.5087
1100
1000
900
800
700
600

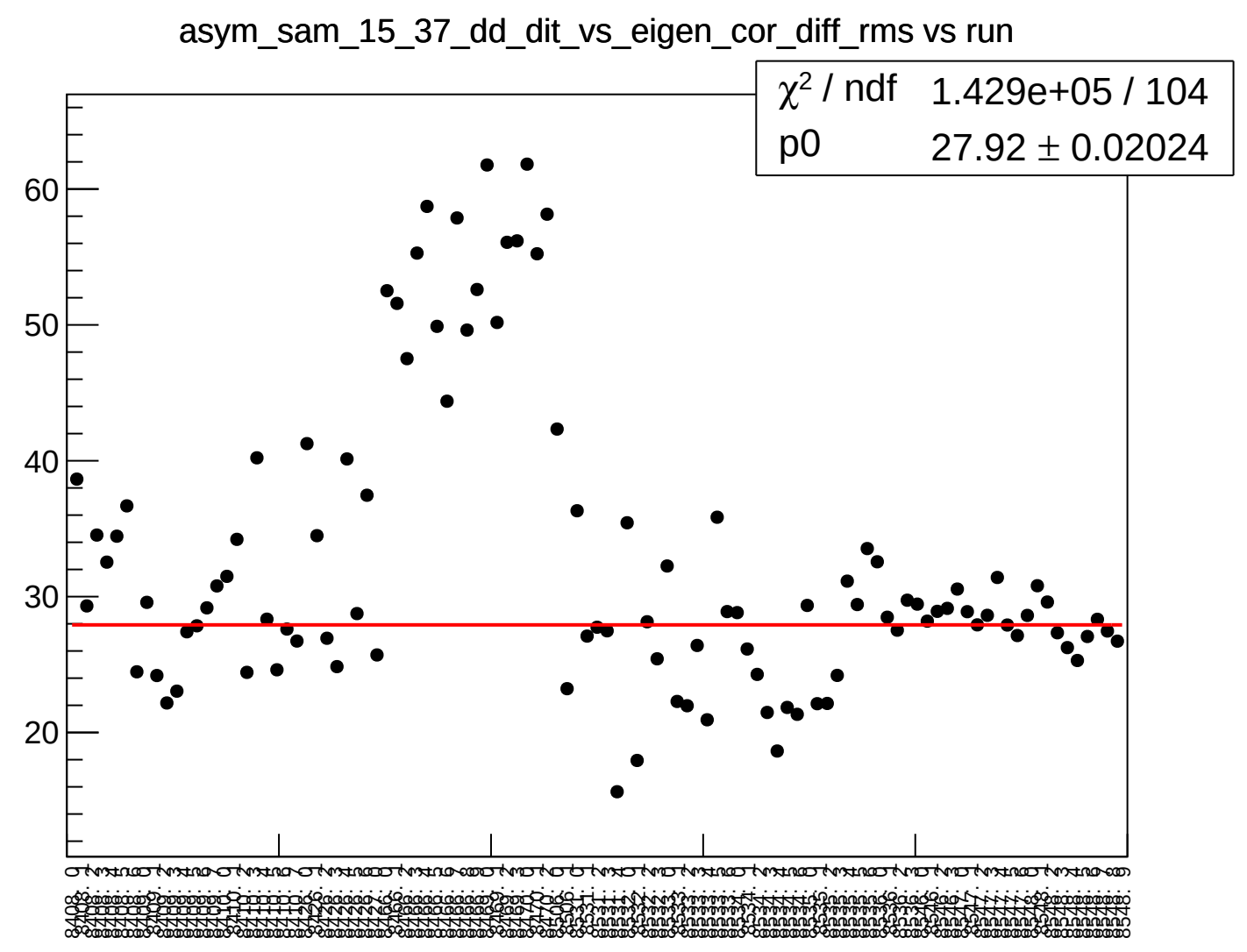

asym_sam_15_37_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 105.8 / 104
p0 6.584e−14 ± 7.337e−14
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 105
Mean 298
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.02123
Std Dev 1.004
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

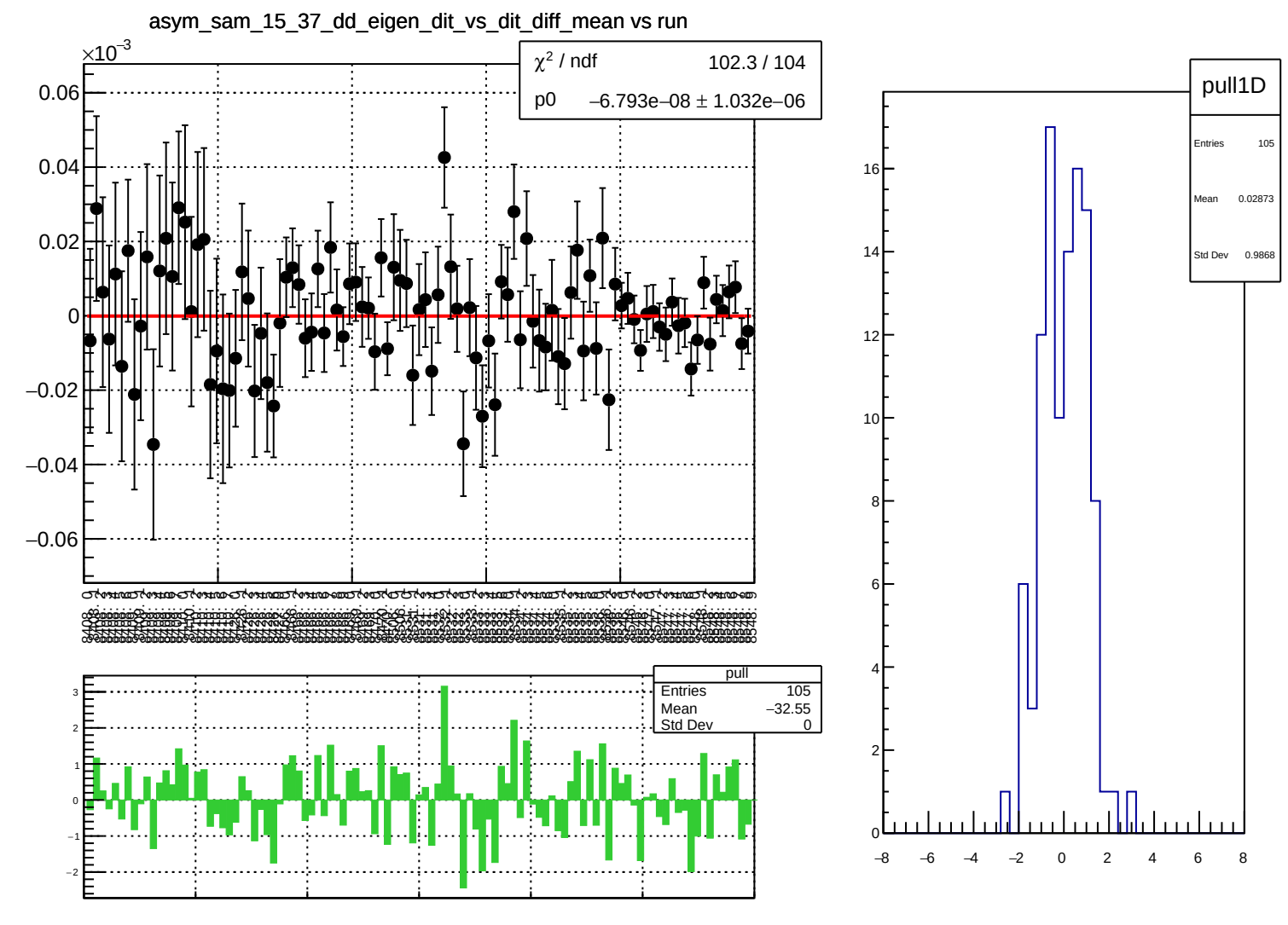

asym_sam_15_37_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.35e+06 / 104
p0 4.329e−11 ± 5.188e−14
0.05
0.04
0.03
0.02
0.01
0

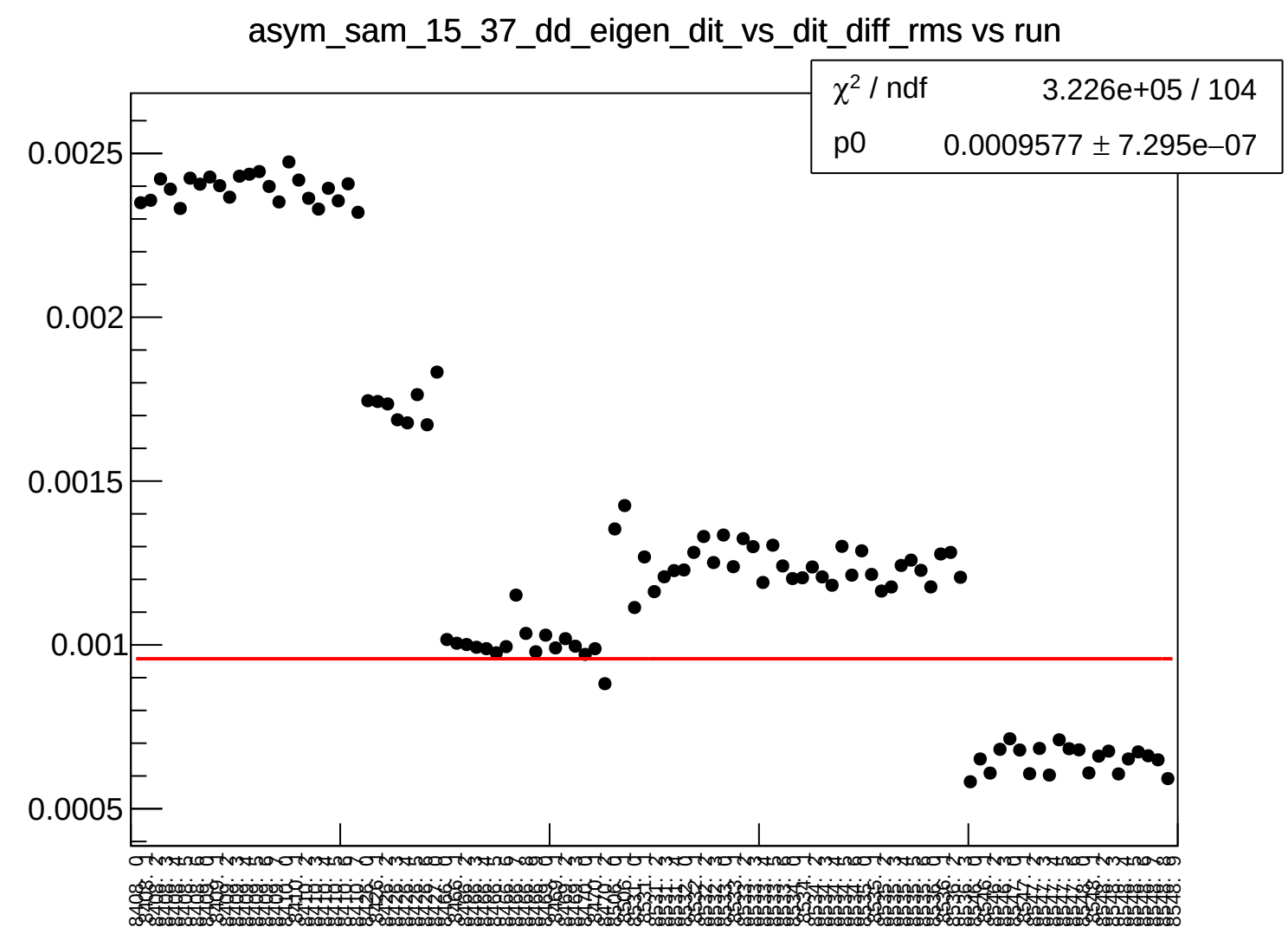

asym_sam_15_37_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 109.4 / 104
p0 −0.004047 ± 0.02862
pull
Entries 105
Mean −187
Std Dev 0
pull1D
Entries 105
Mean −0.01115
Std Dev 1.02

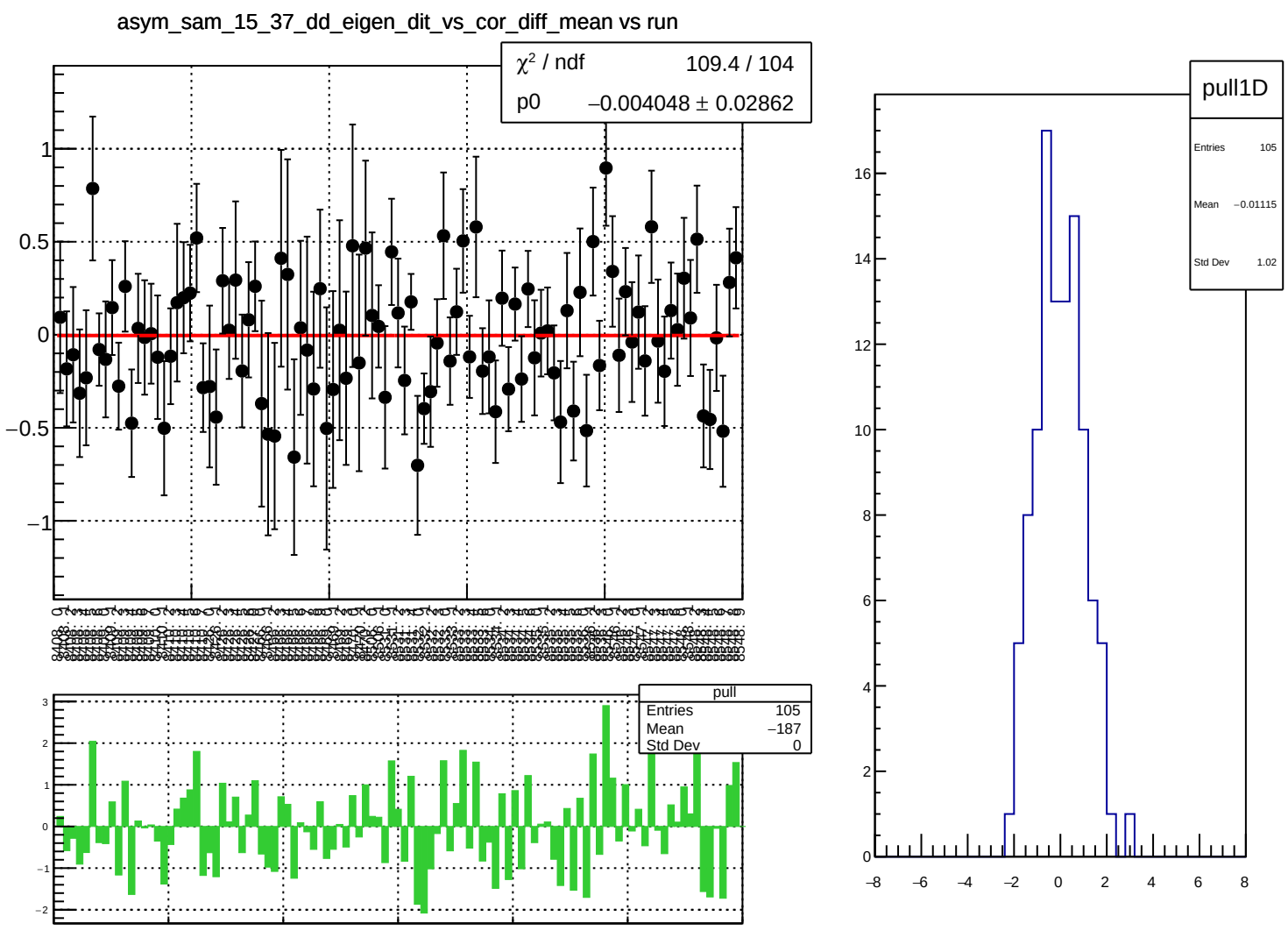

asym_sam_15_37_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.429e+05 / 104
p0 27.92 ± 0.02024
60
50
40
30
20

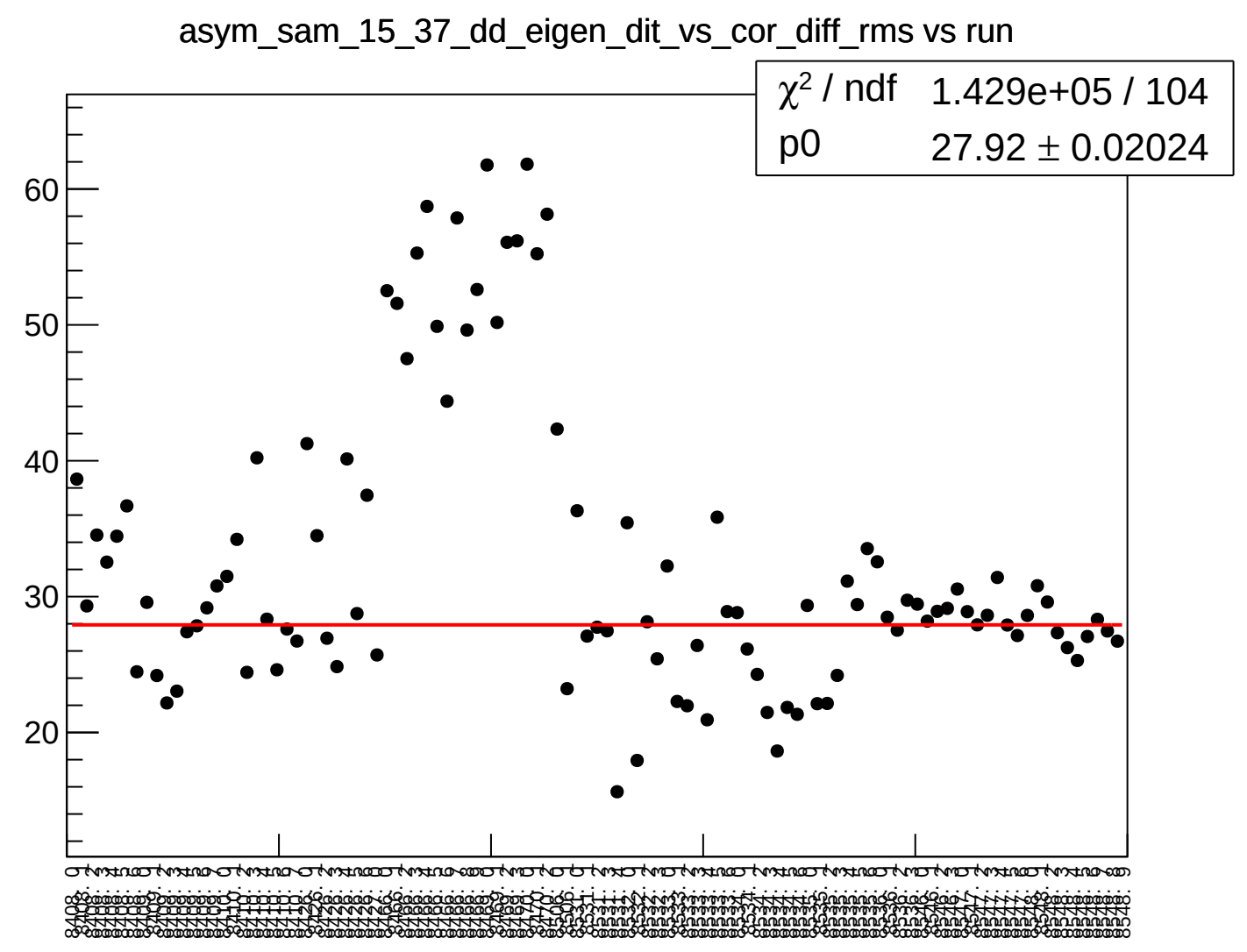

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.4 / 104
p0 −0.004047 ± 0.02862
pull
Entries 105
Mean −187
Std Dev 0
pull1D
Entries 105
Mean −0.01115
Std Dev 1.02

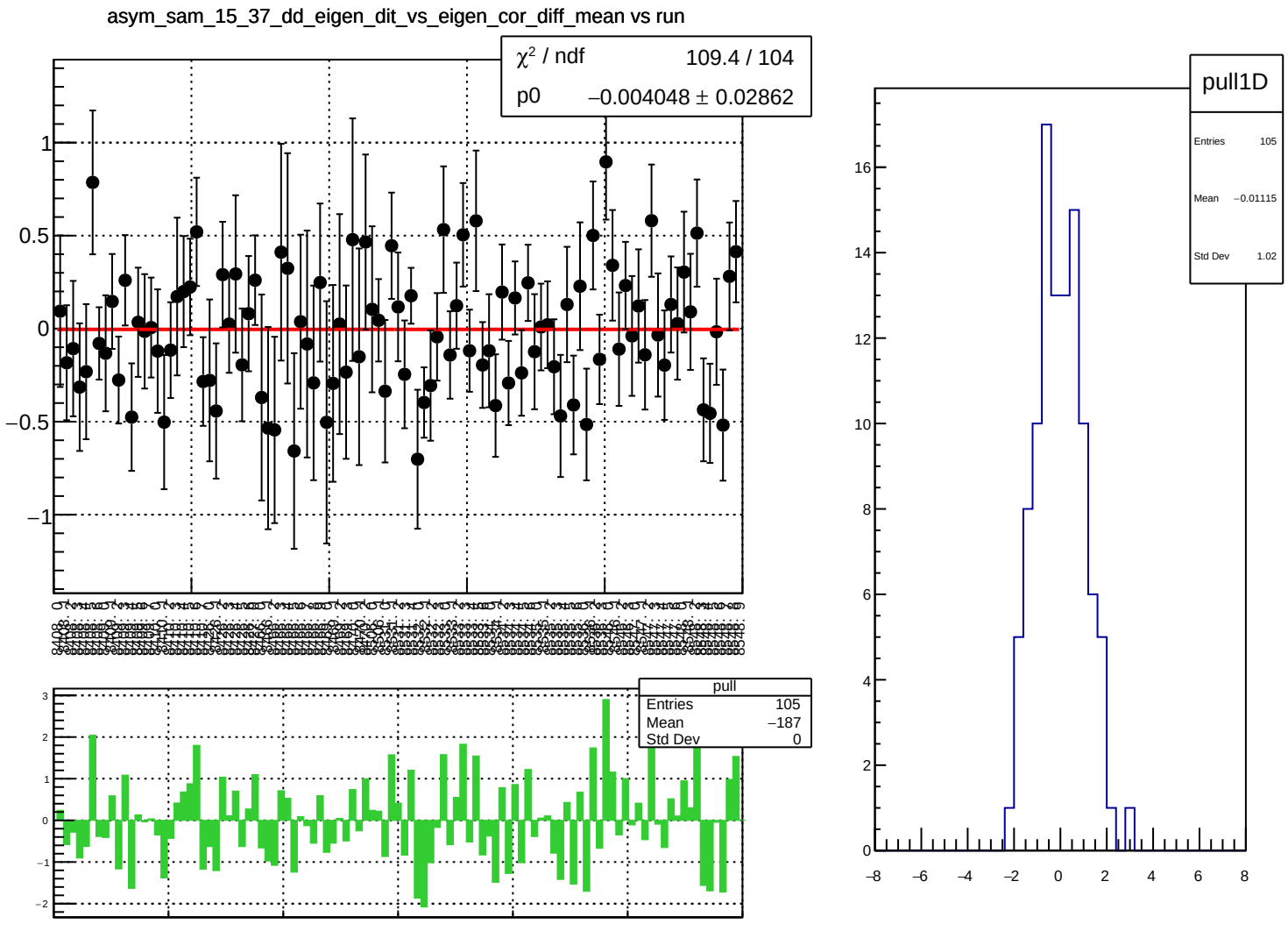

asym_sam_15_37_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.429e+05 / 104
p0 27.92 ± 0.02024
60
50
40
30
20

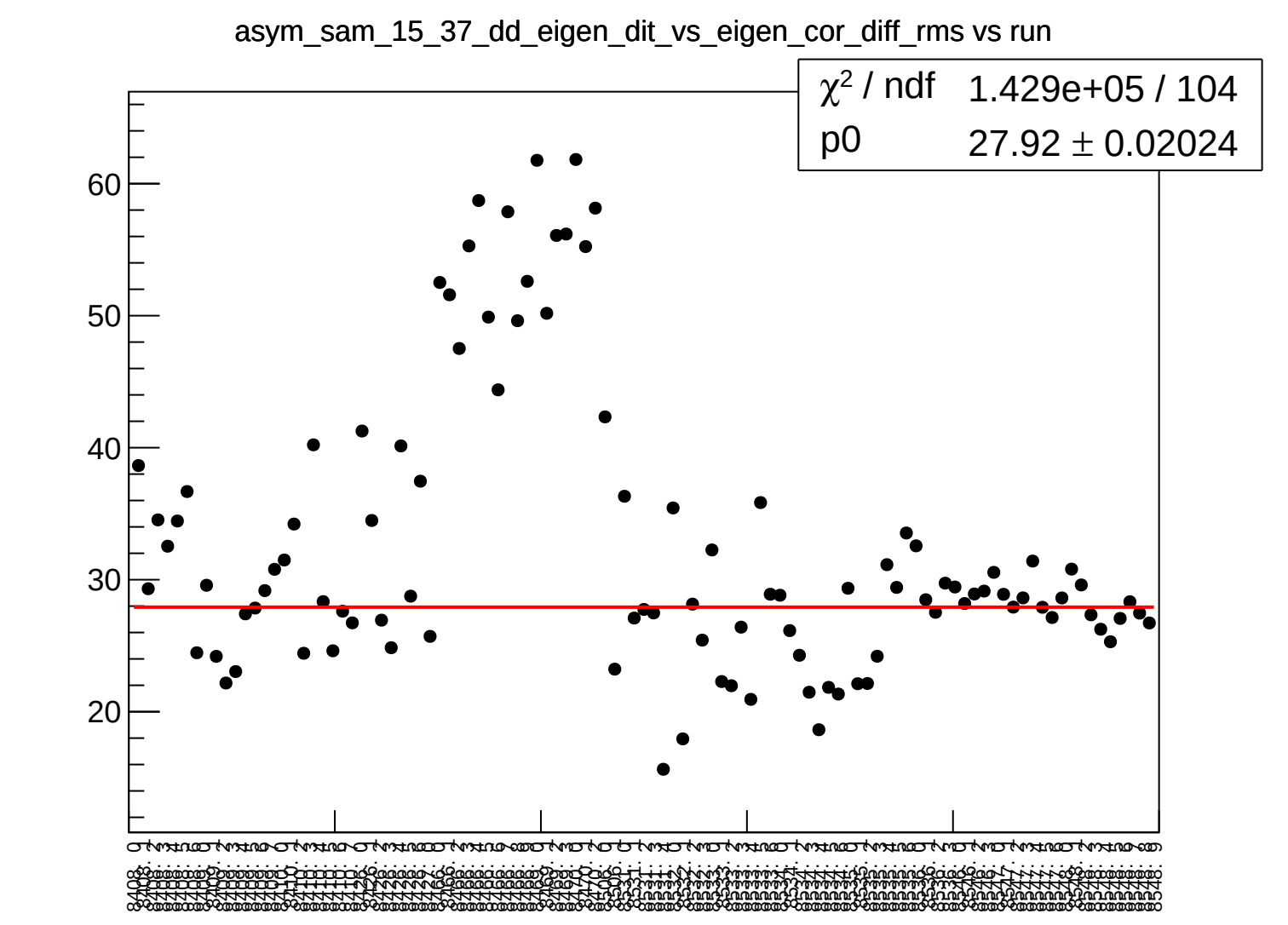

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 102.3 / 104
p0 −6.793e−08 ± 1.032e−06
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
pull
Entries 105
Mean −32.55
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.02873
Std Dev 0.9868
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

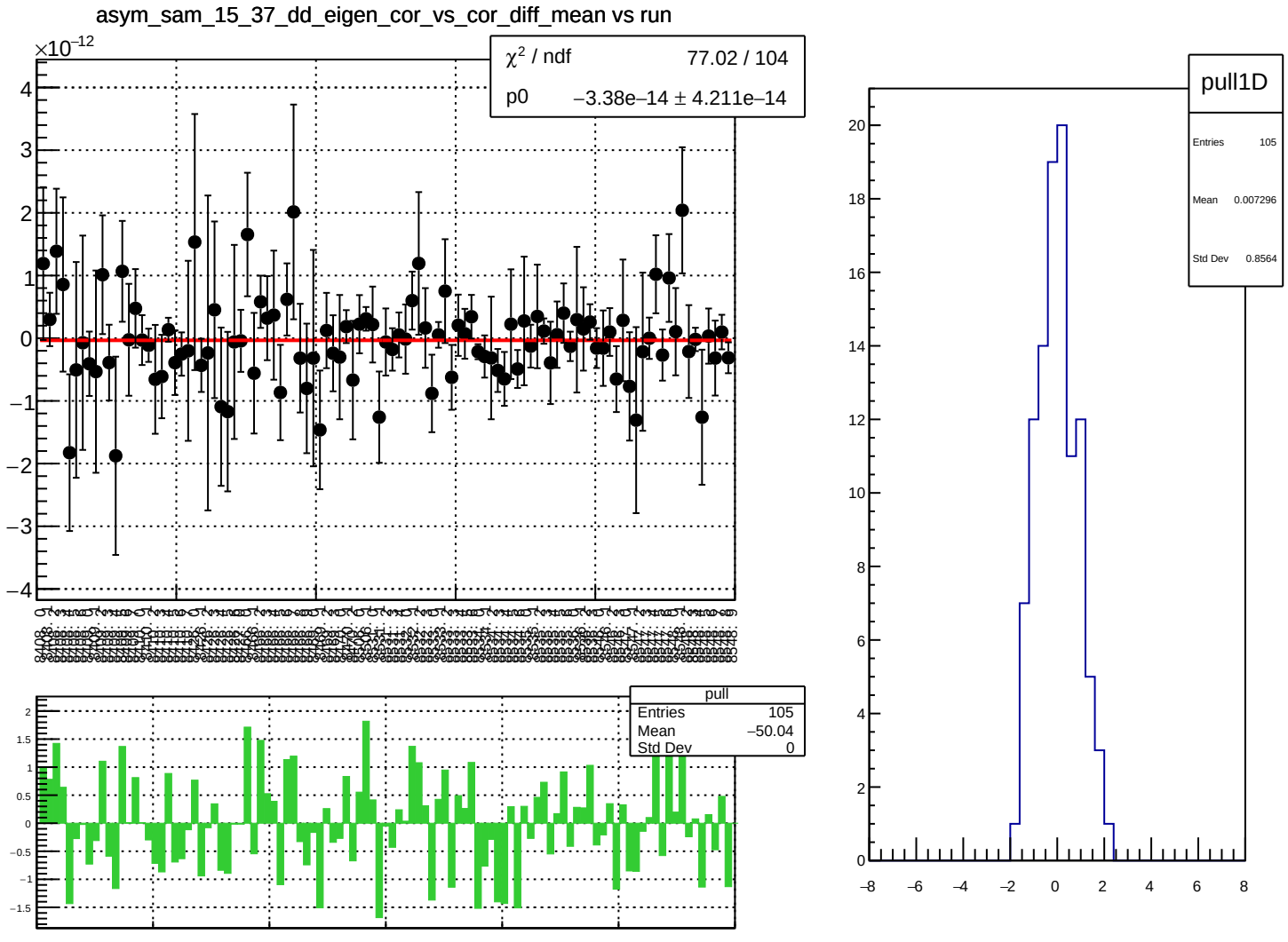

asym_sam_15_37_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.226e+05 / 104
p0 0.0009577 ± 7.295e−07
0.0025
0.002
0.0015
0.001
0.0005

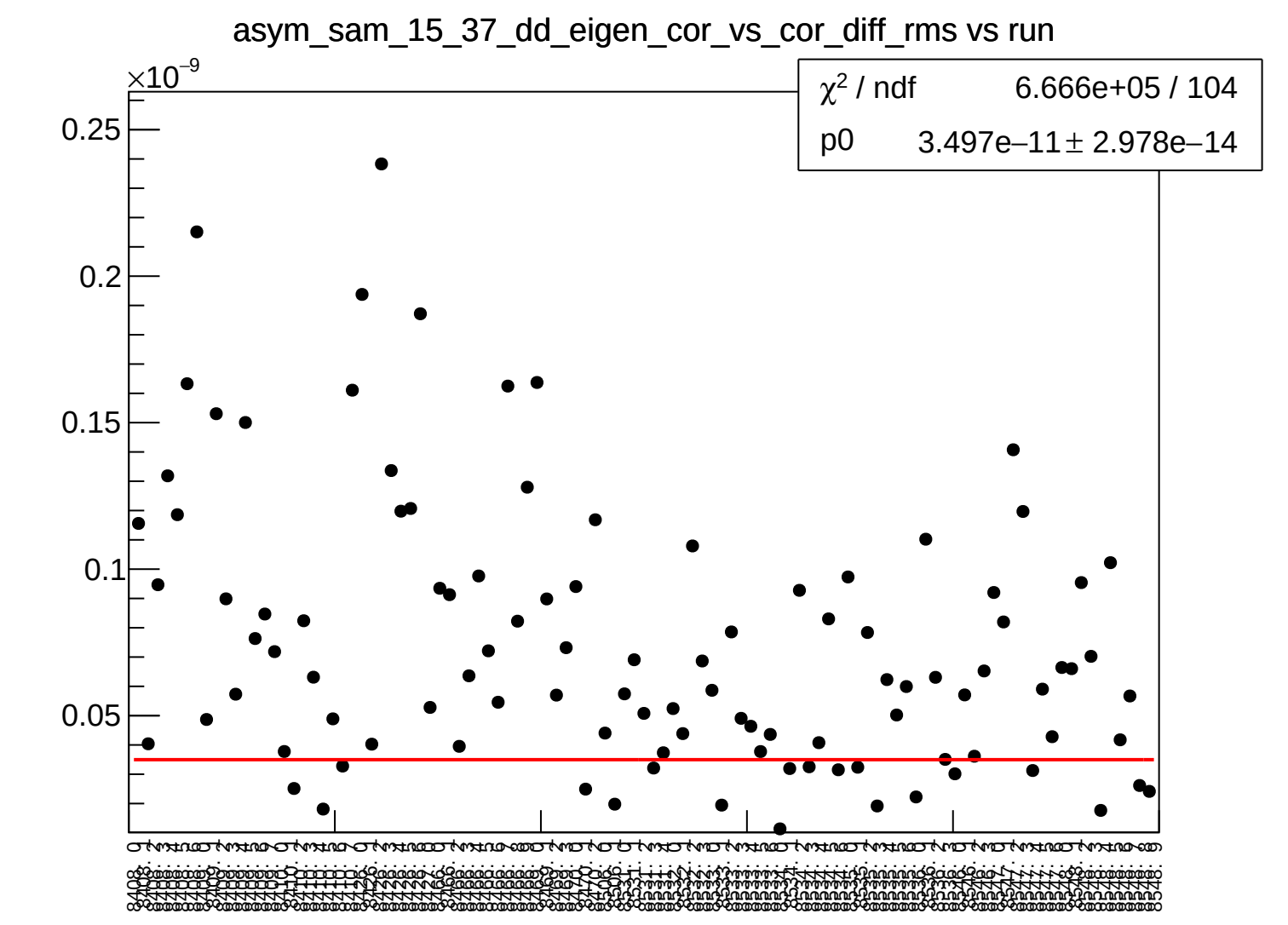

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 109.4 / 104
p0 −0.004048 ± 0.02862
pull
Entries 105
Mean −187
Std Dev 0
pull1D
Entries 105
Mean −0.01115
Std Dev 1.02

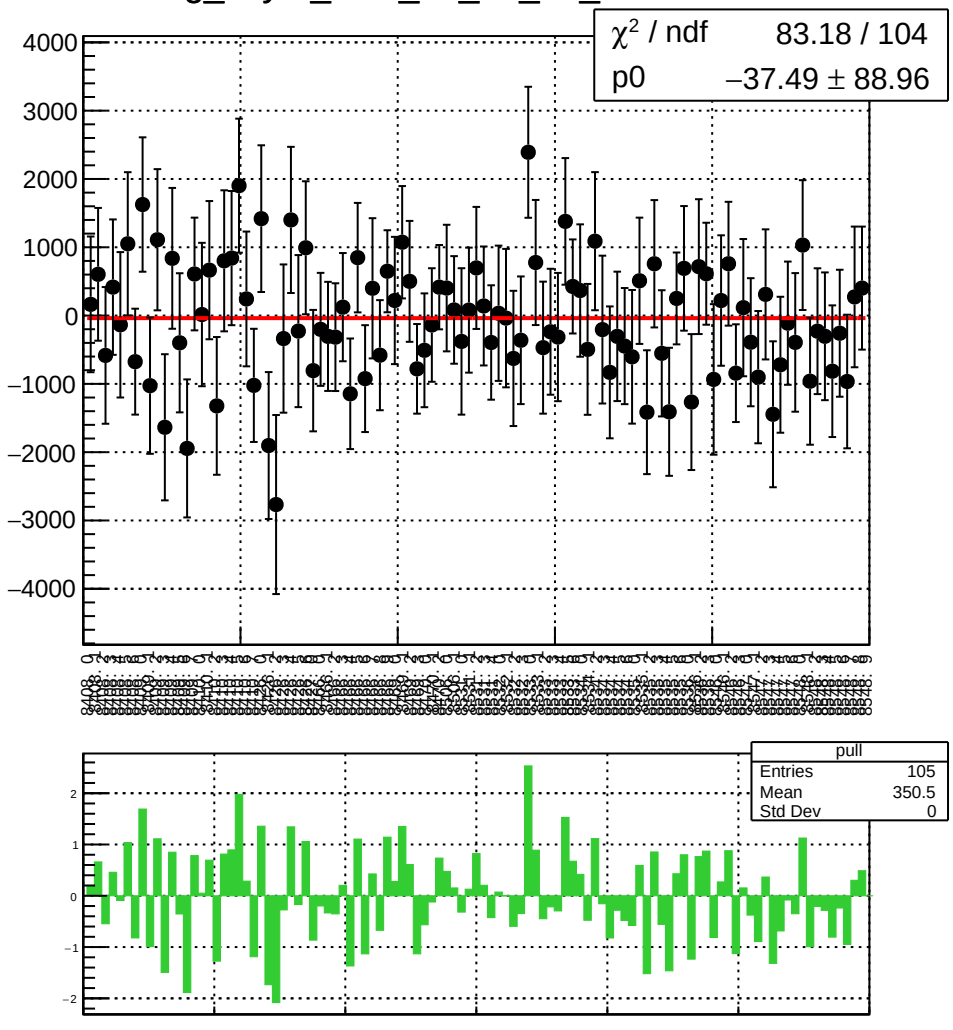

asym_sam_15_37_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.429e+05 / 104
p0 27.92 ± 0.02024
60
50
40
30
20

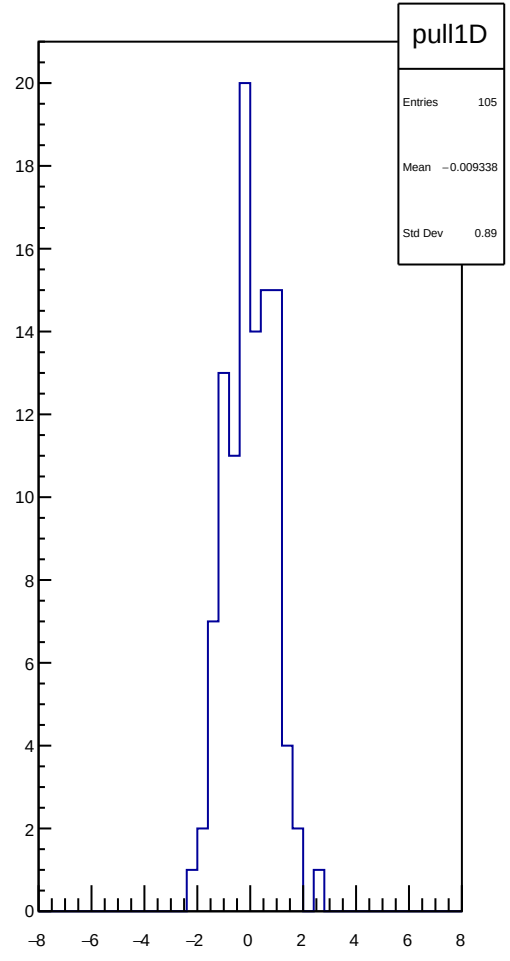

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.4 / 104
p0 −0.004048 ± 0.02862
pull
Entries 105
Mean −187
Std Dev 0
pull1D
Entries 105
Mean −0.01115
Std Dev 1.02

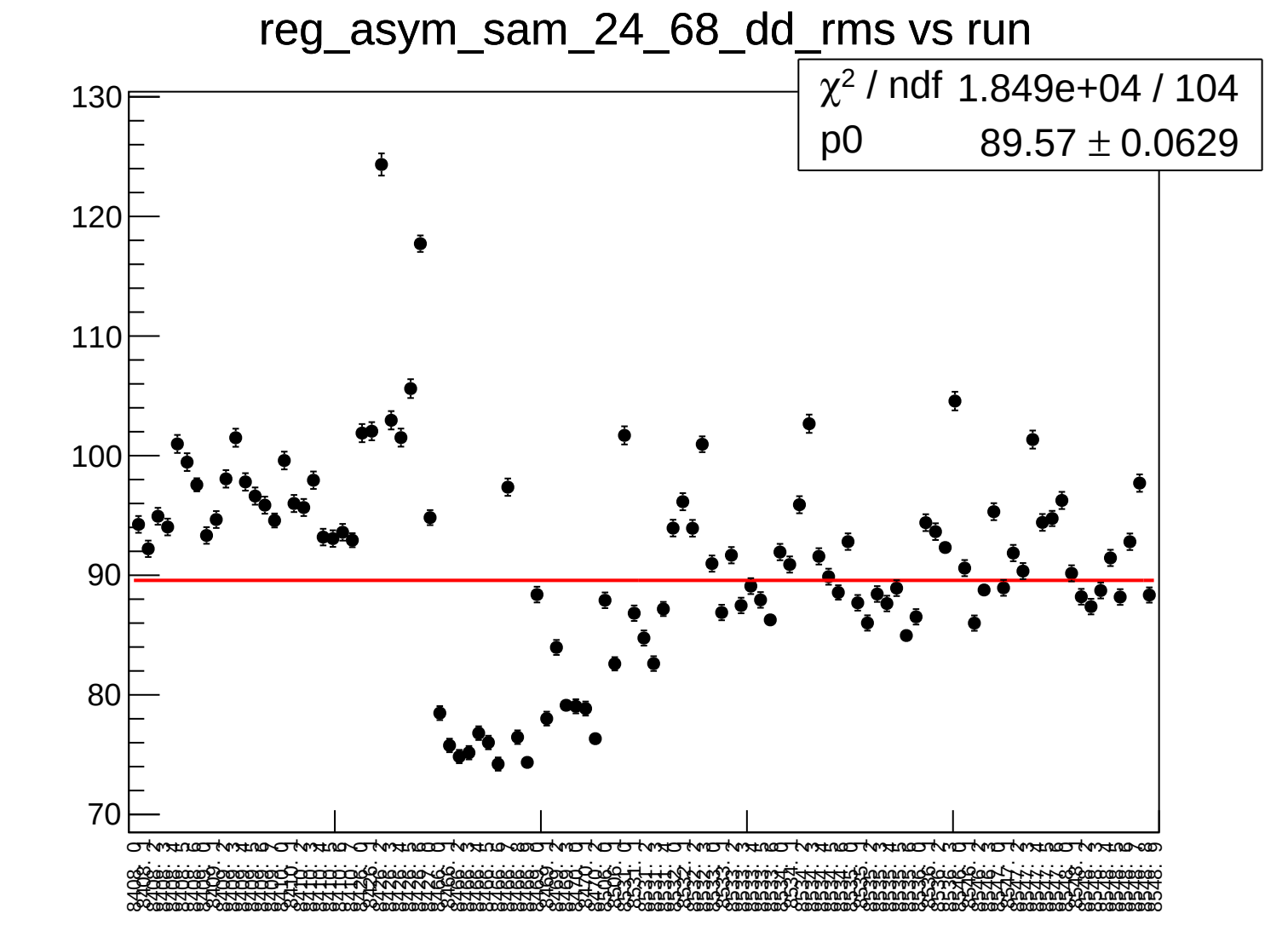

asym_sam_15_37_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.429e+05 / 104
p0 27.92 ± 0.02024
60
50
40
30
20

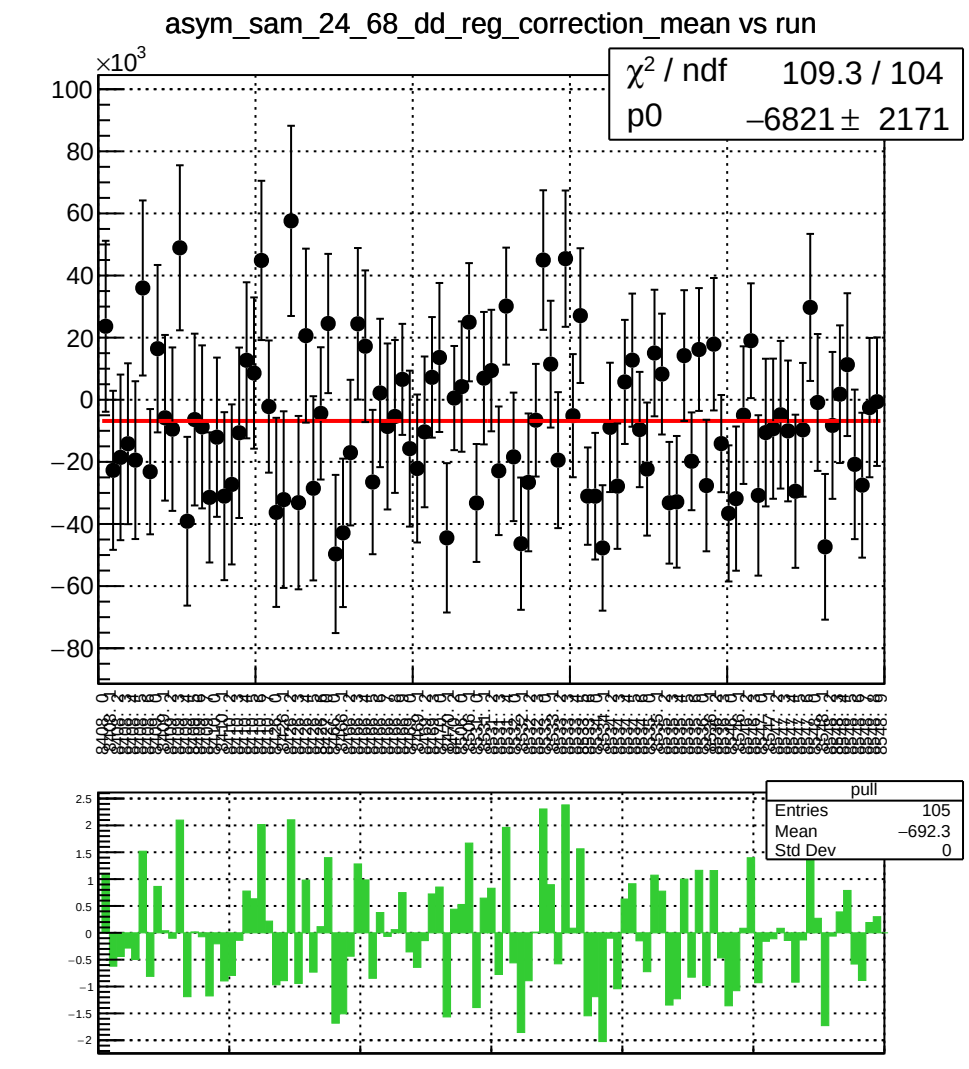

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 77.02 / 104
p0 −3.38e−14 ± 4.211e−14
pull
Entries 105
Mean −50.04
Std Dev 0
pull1D
Entries 105
Mean 0.007296
Std Dev 0.8564

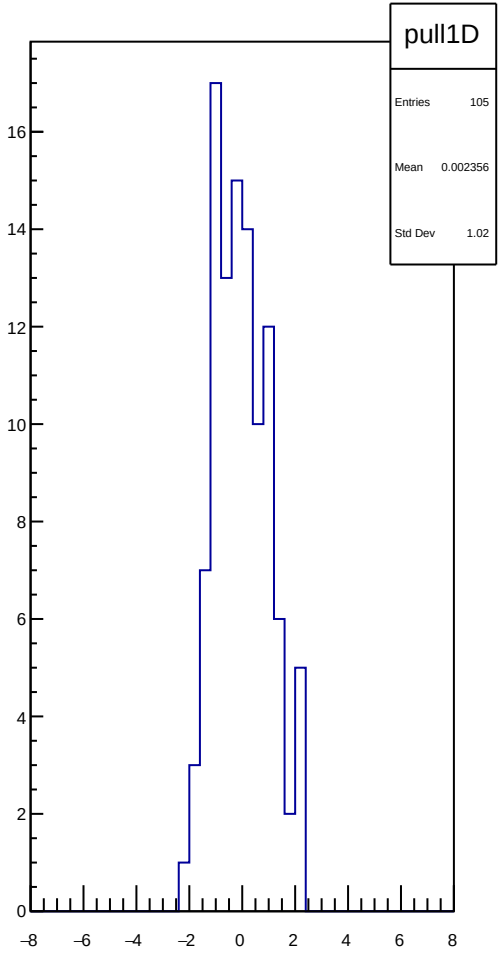

asym_sam_15_37_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.666e+05 / 104
p0 3.497e−11 ± 2.978e−14
0.25
0.2
0.15
0.1
0.05

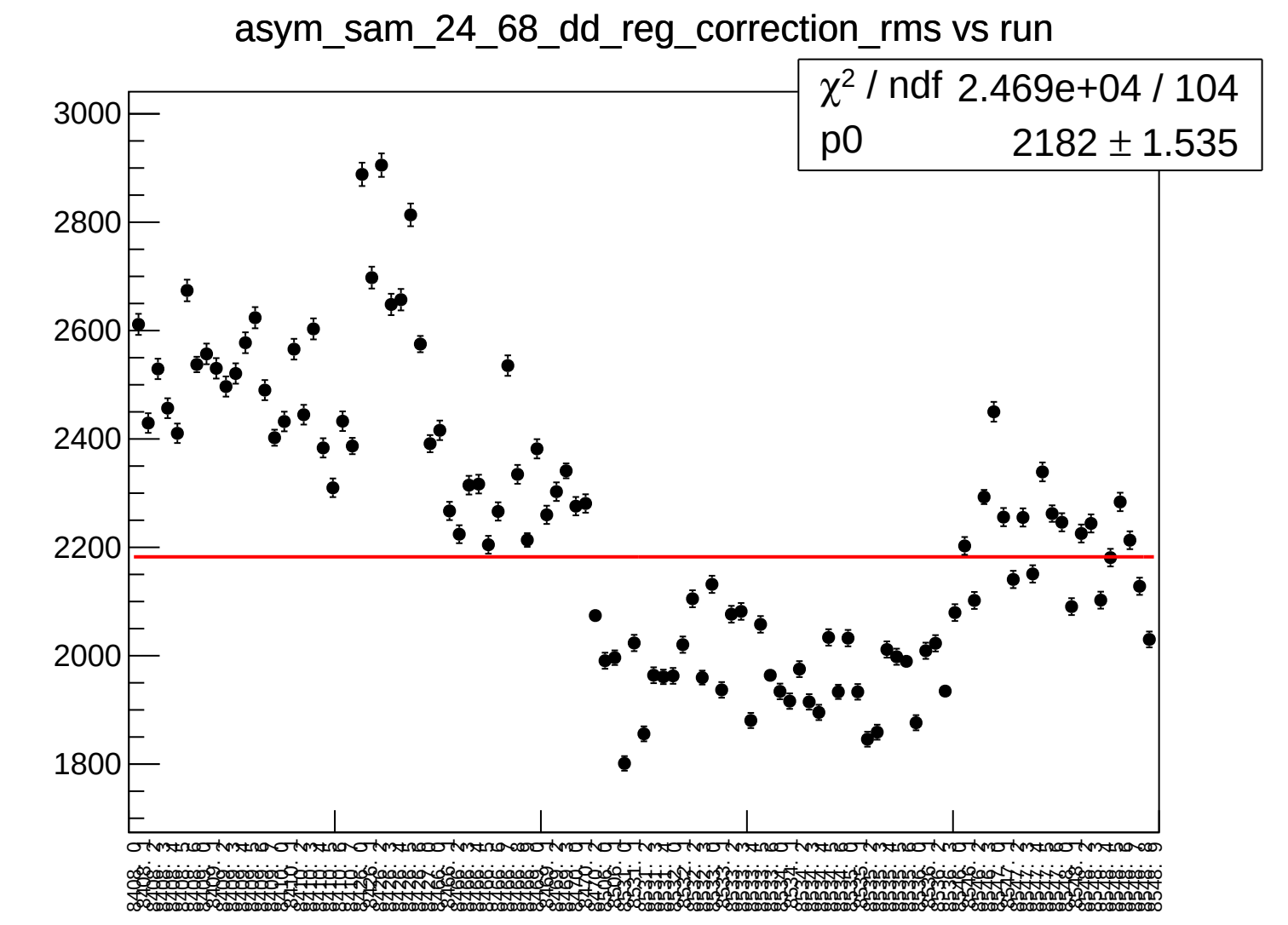

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 83.18 / 104
p0 −37.49 ± 88.96
pull
Entries 105
Mean 350.5
Std Dev 0

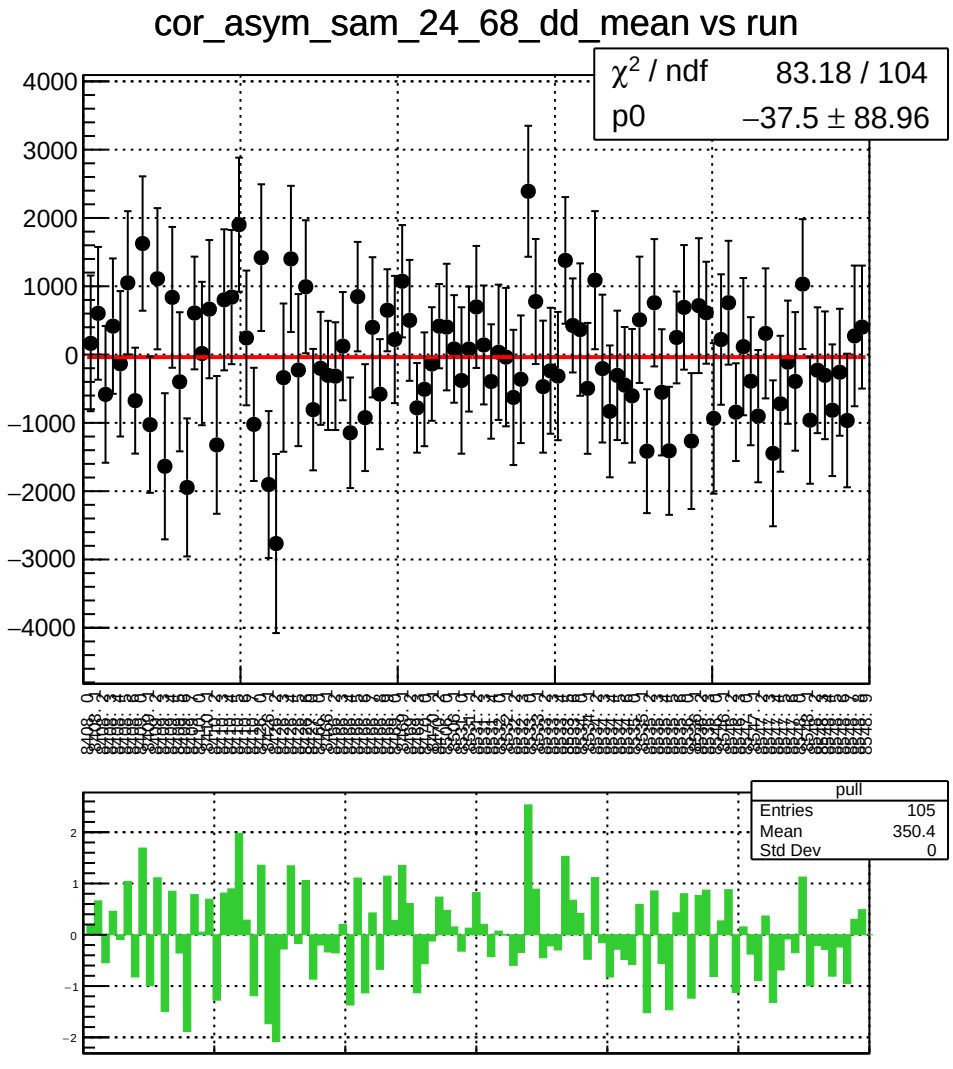

pull1D
Entries 105
Mean −0.009338
Std Dev 0.89

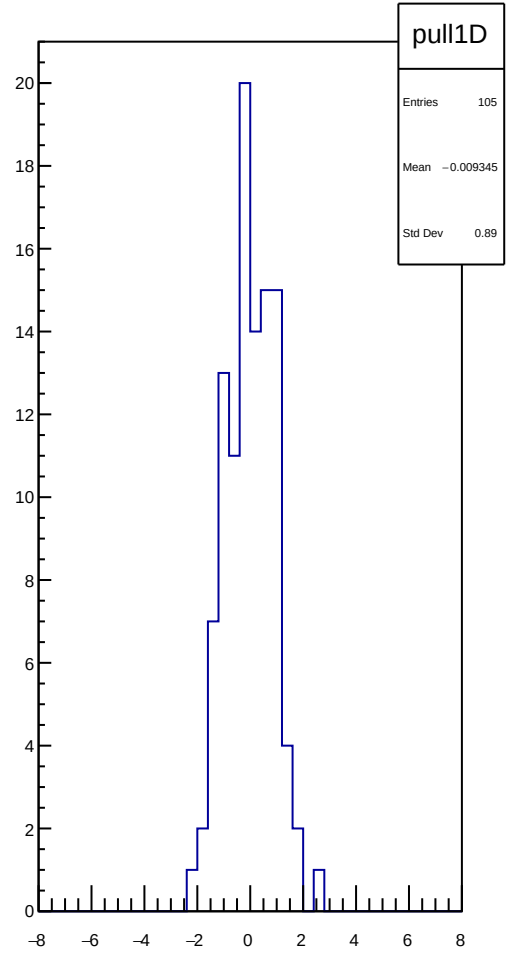

reg_asym_sam_24_68_dd_rms vs run
χ^2 / ndf 1.849e+04 / 104
p0 89.57 ± 0.0629
130
120
110
100
90
80
70

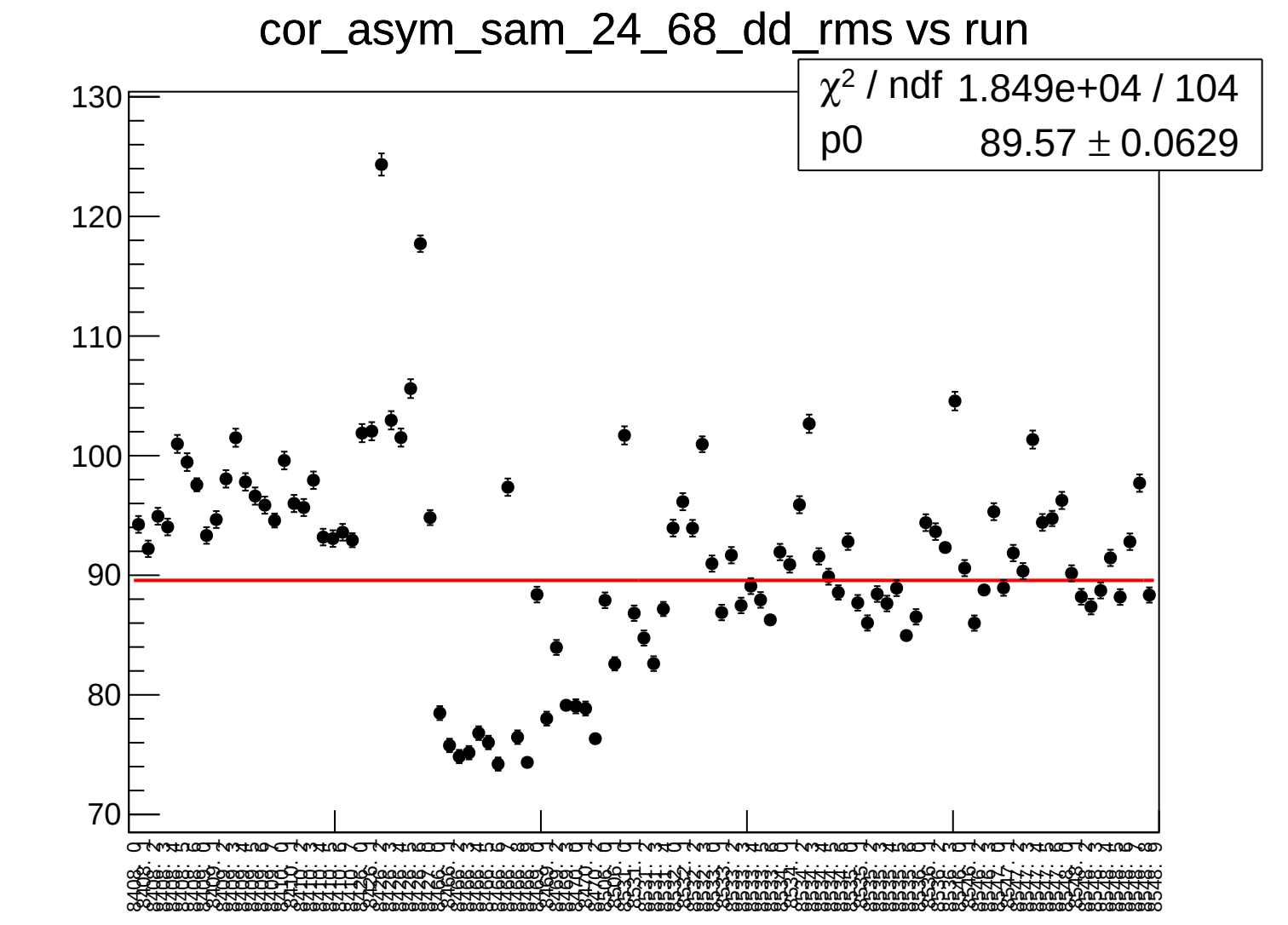

asym_sam_24_68_dd_reg_correction_mean vs run
×10^3
χ² / ndf 109.3 / 104
p0 −6821 ± 2171
pull
Entries 105
Mean −692.3
Std Dev 0

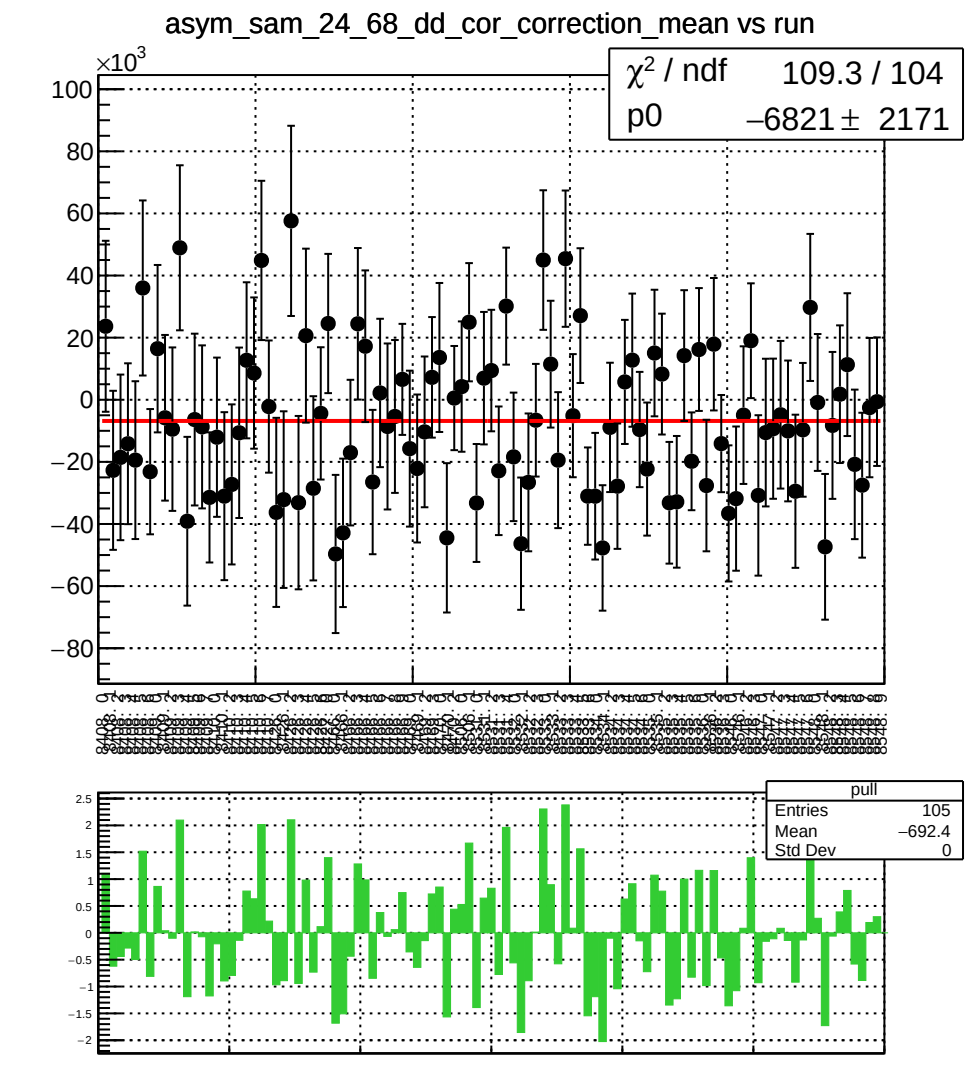

pull1D
Entries 105
Mean 0.002356
Std Dev 1.02

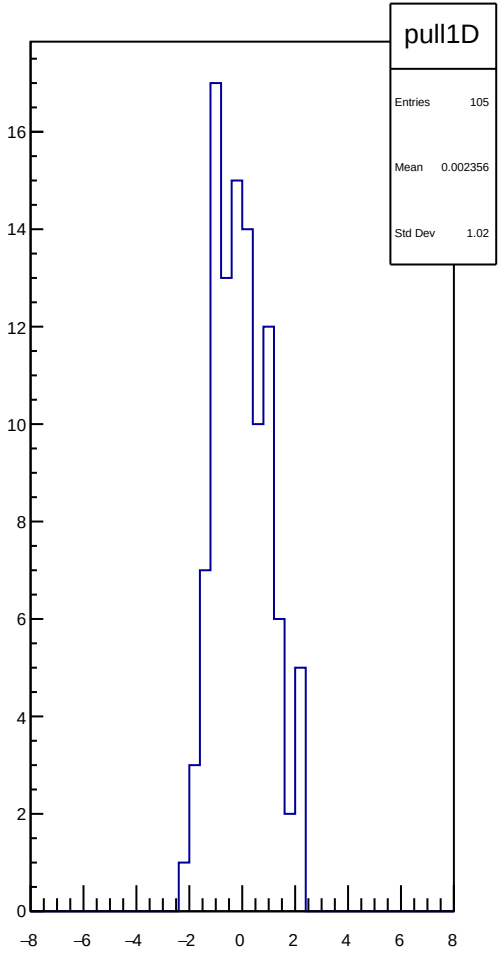

asym_sam_24_68_dd_reg_correction_rms vs run
χ² / ndf 2.469e+04 / 104
p0 2182 ± 1.535
3000
2800
2600
2400
2200
2000
1800

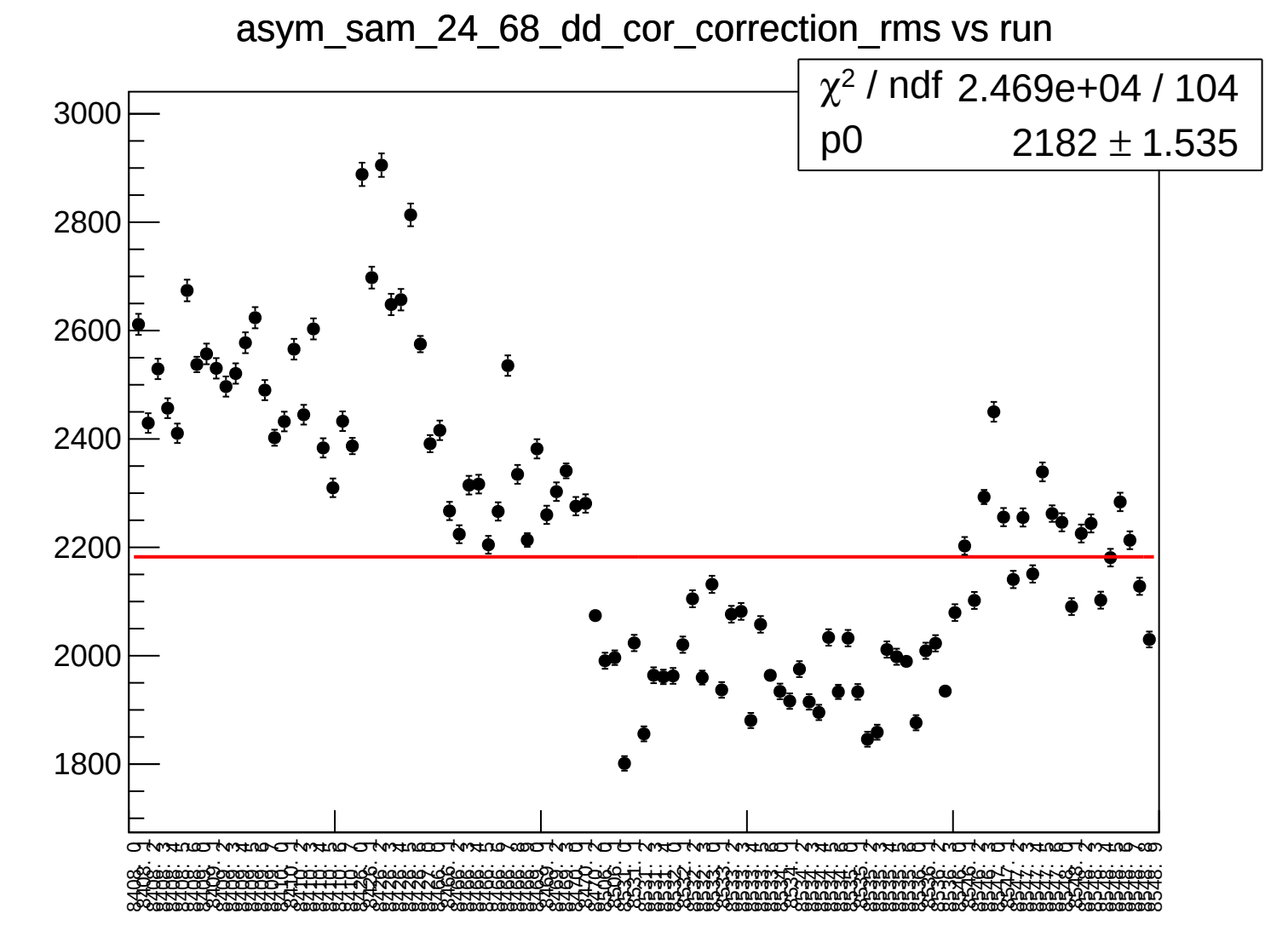

cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 83.18 / 104
p0 −37.5 ± 88.96
pull
Entries 105
Mean 350.4
Std Dev 0

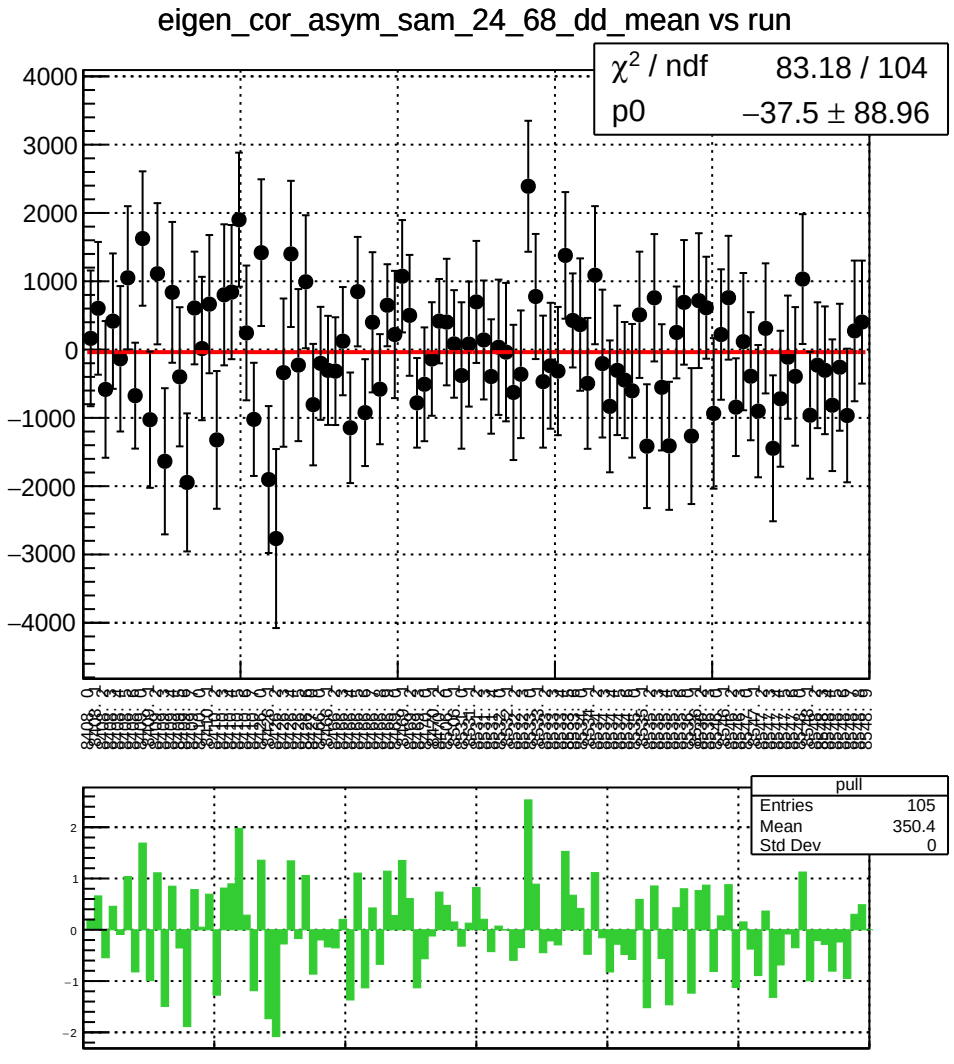

pull1D
Entries 105
Mean −0.009345
Std Dev 0.89

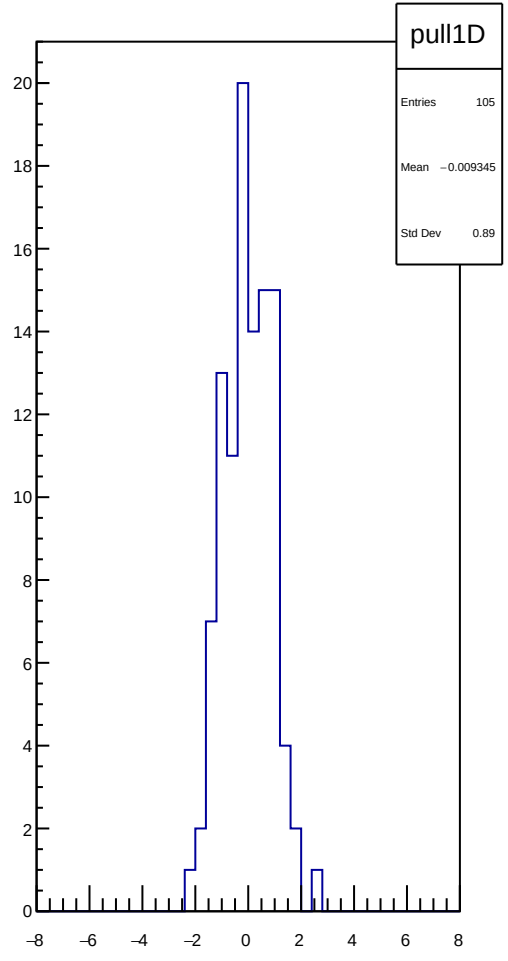

cor_asym_sam_24_68_dd_rms vs run
χ^2 / ndf 1.849e+04 / 104
p0 89.57 ± 0.0629
130
120
110
100
90
80
70

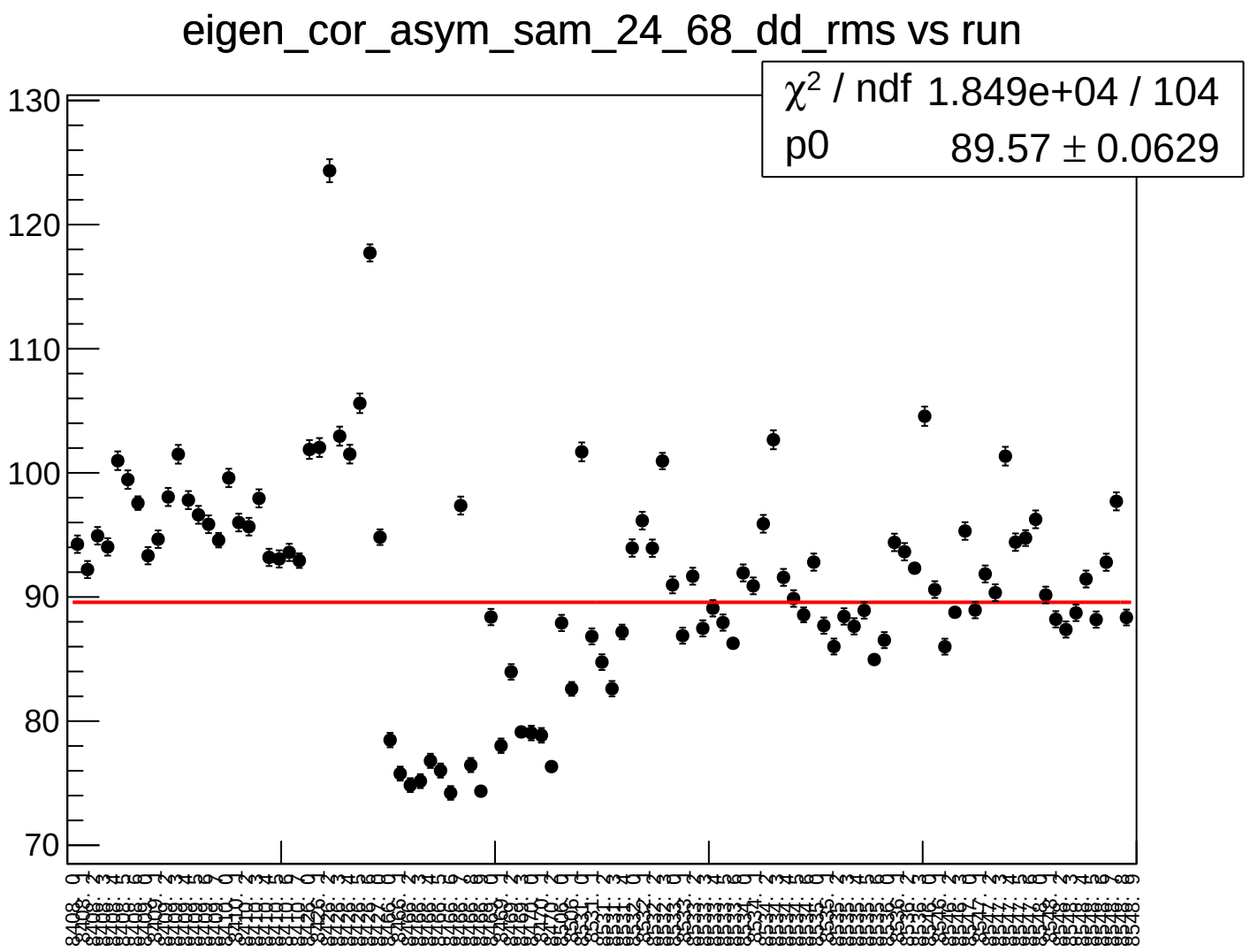

asym_sam_24_68_dd_cor_correction_mean vs run
×10^3
χ^2 / ndf 109.3 / 104
p0 −6821 ± 2171
pull
Entries 105
Mean −692.4
Std Dev 0

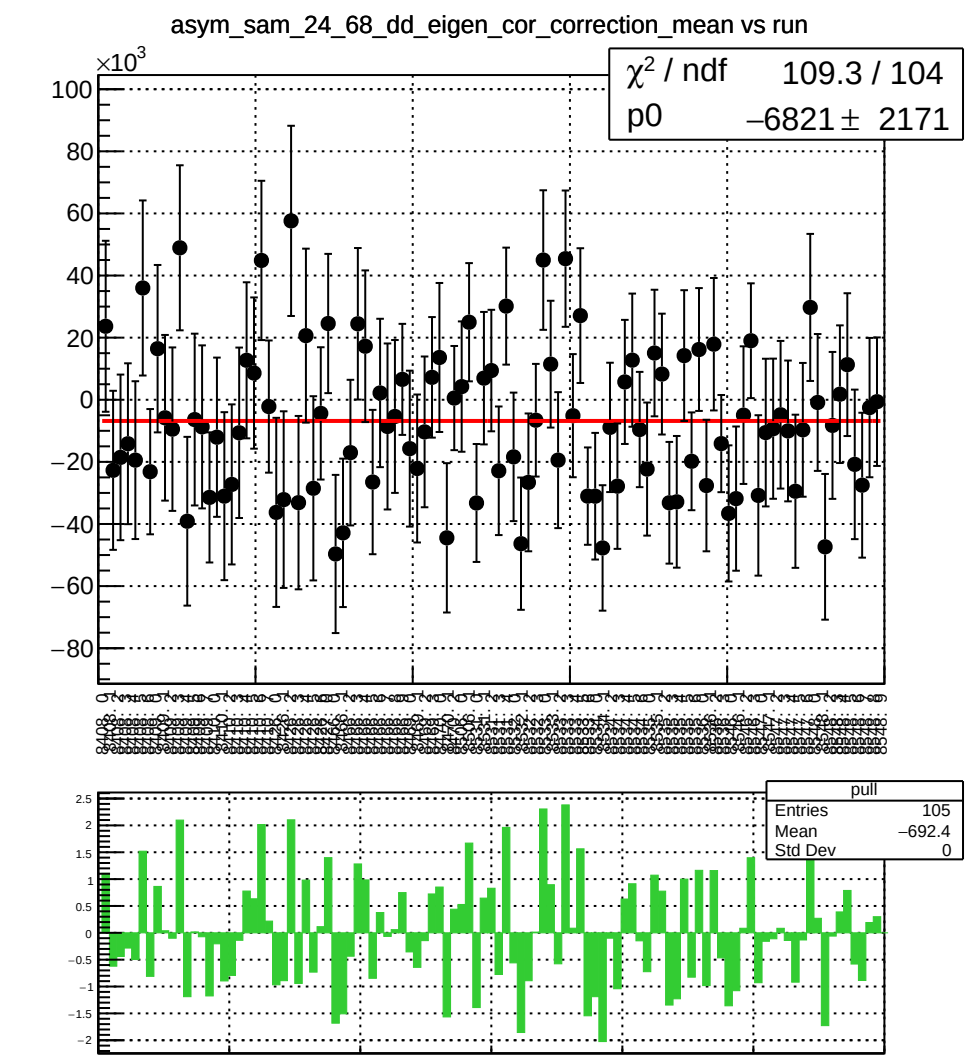

pull1D
Entries 105
Mean 0.002356
Std Dev 1.02

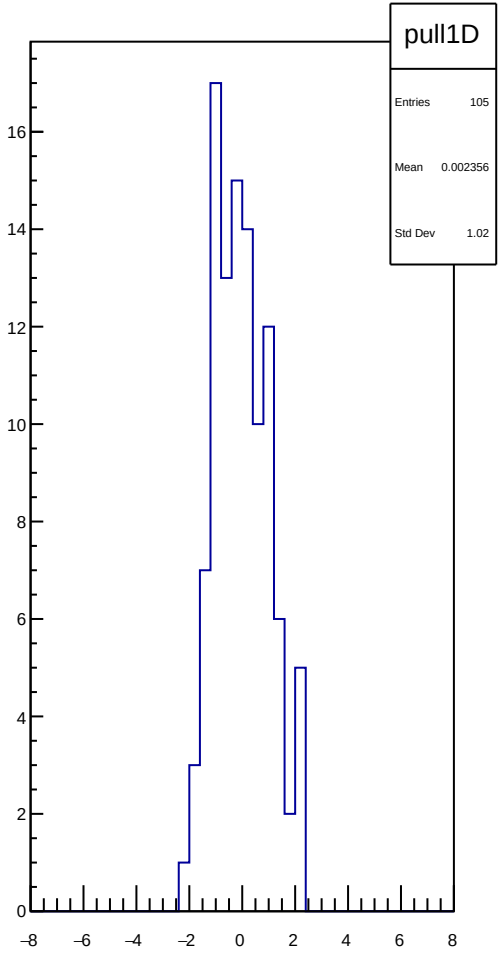

asym_sam_24_68_dd_cor_correction_rms vs run
χ² / ndf 2.469e+04 / 104
p0 2182 ± 1.535
3000
2800
2600
2400
2200
2000
1800

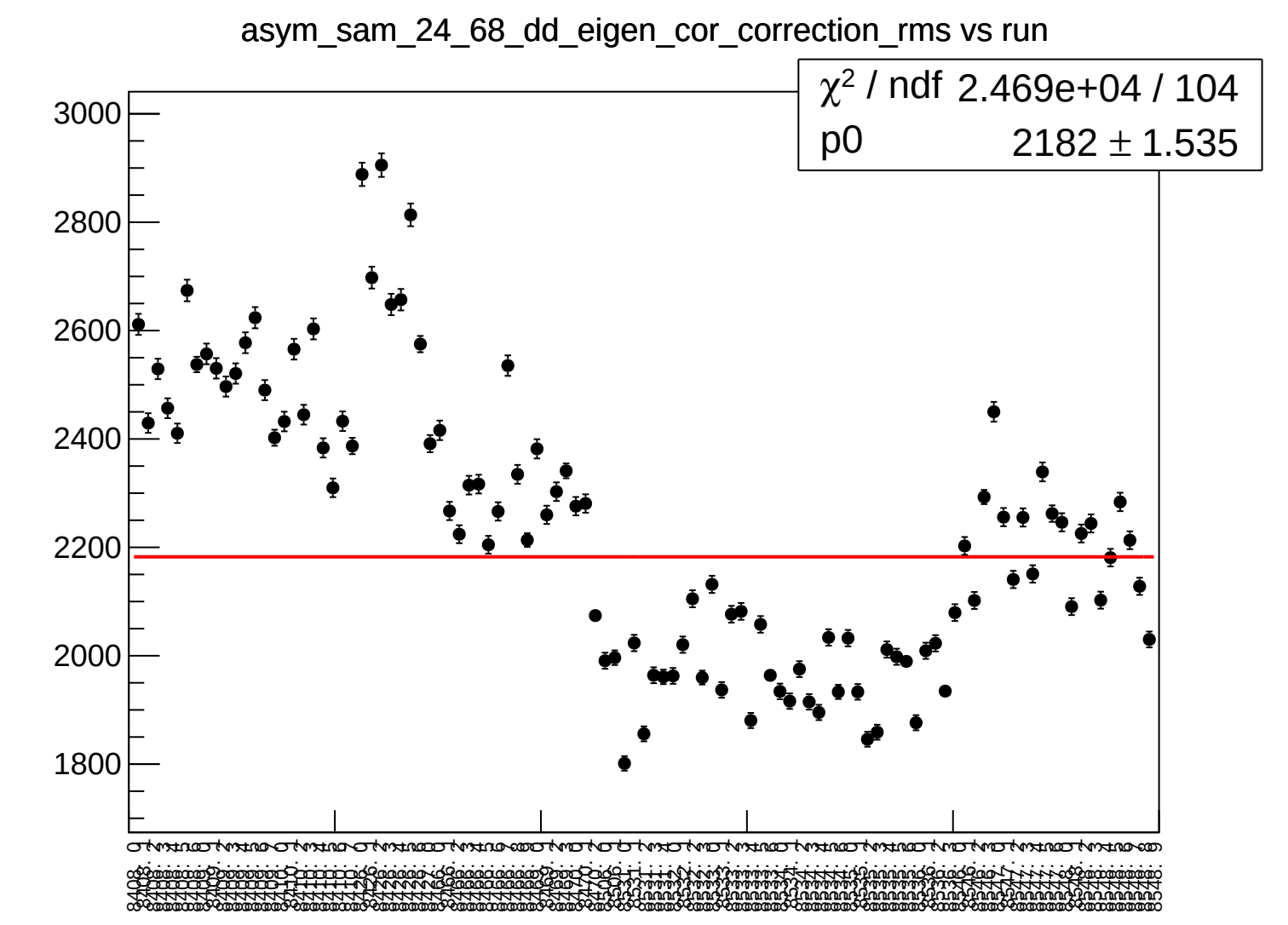

eigen_cor_asym_sam_24_68_dd_mean vs run
χ² / ndf 83.18 / 104
p0 −37.5 ± 88.96
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 105
Mean 350.4
Std Dev 0
2
1
0
−1
−2

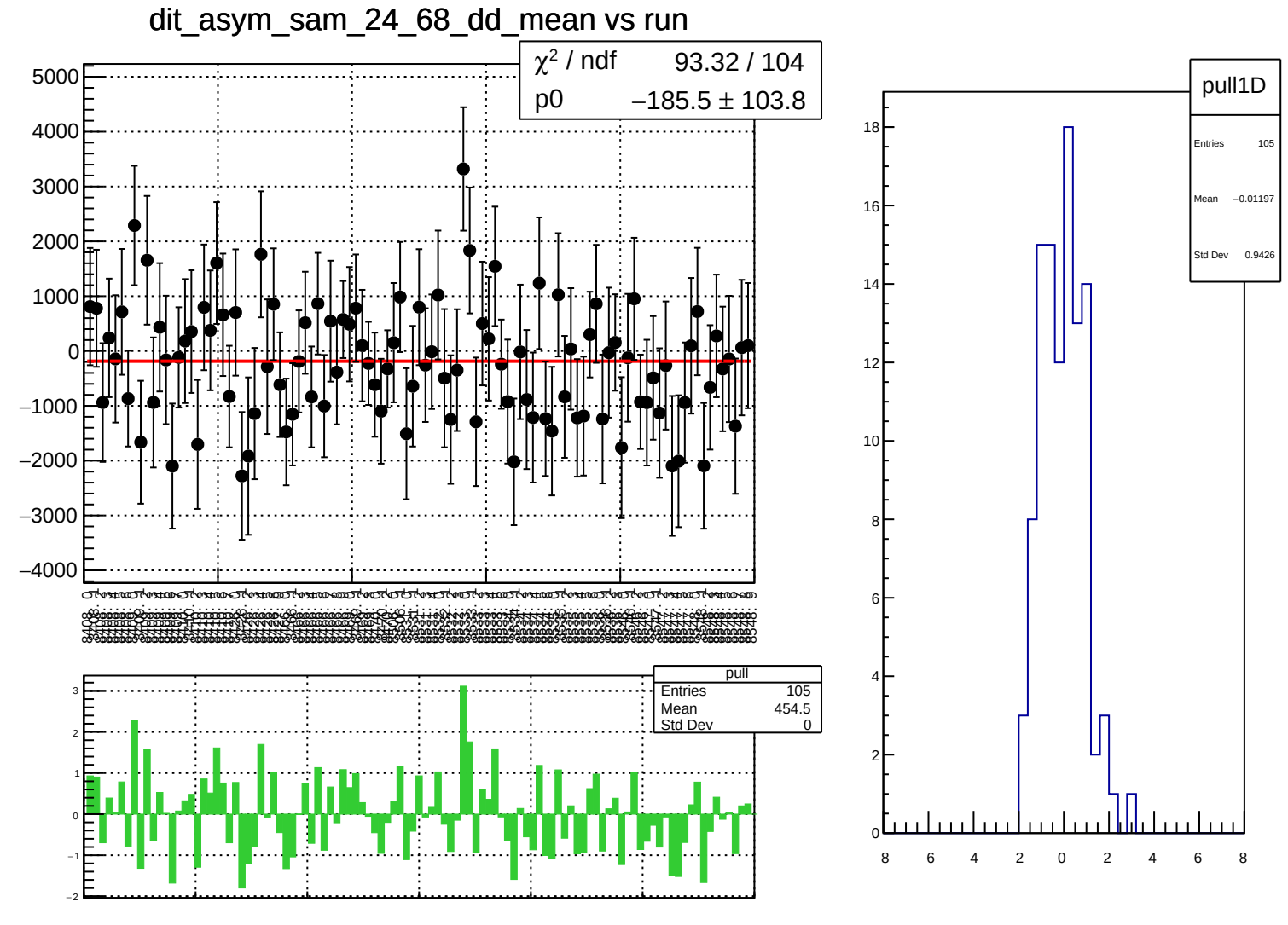

pull1D
Entries 105
Mean −0.009345
Std Dev 0.89
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

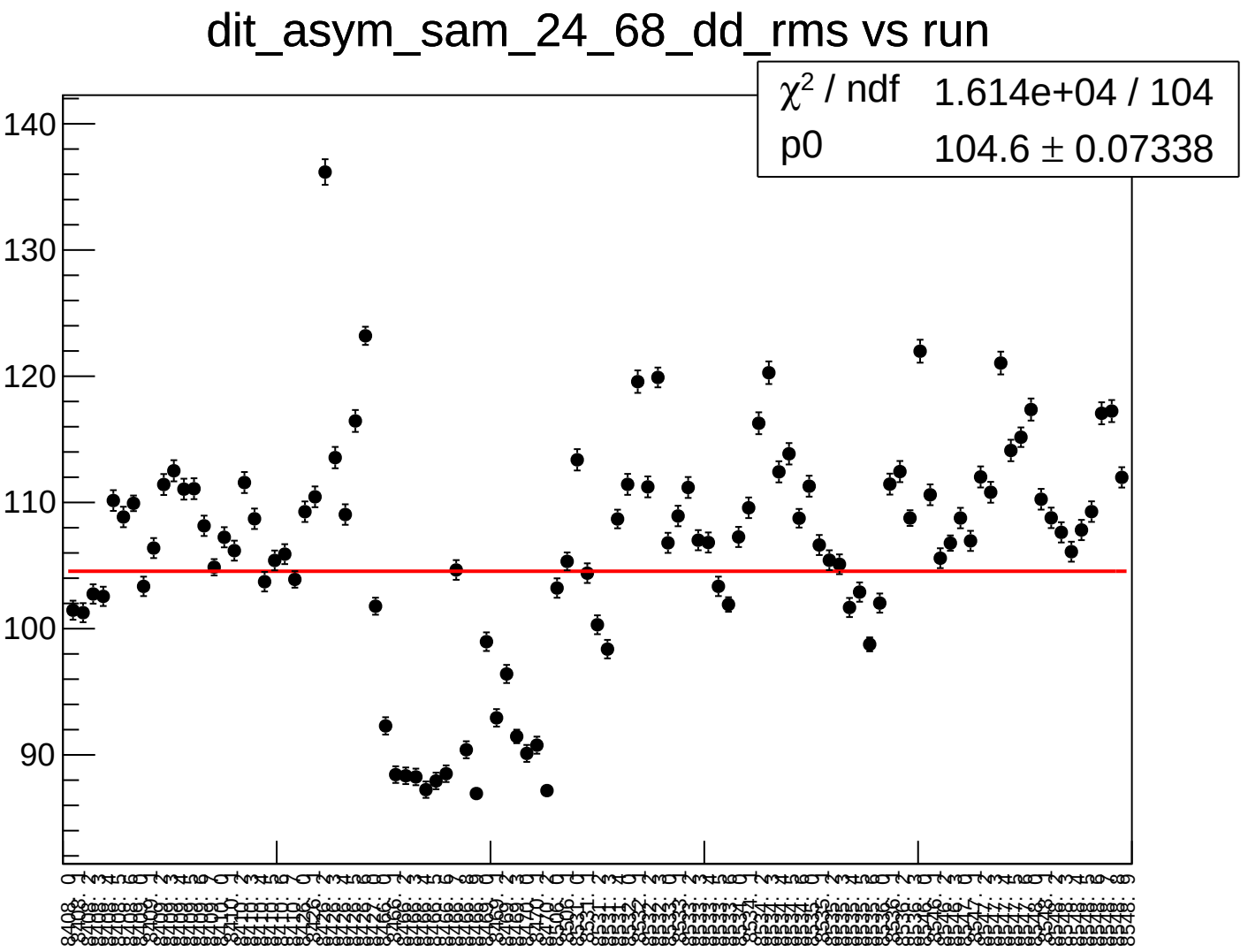

eigen_cor_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.849e+04 / 104
p0 89.57 ± 0.0629
130
120
110
100
90
80
70

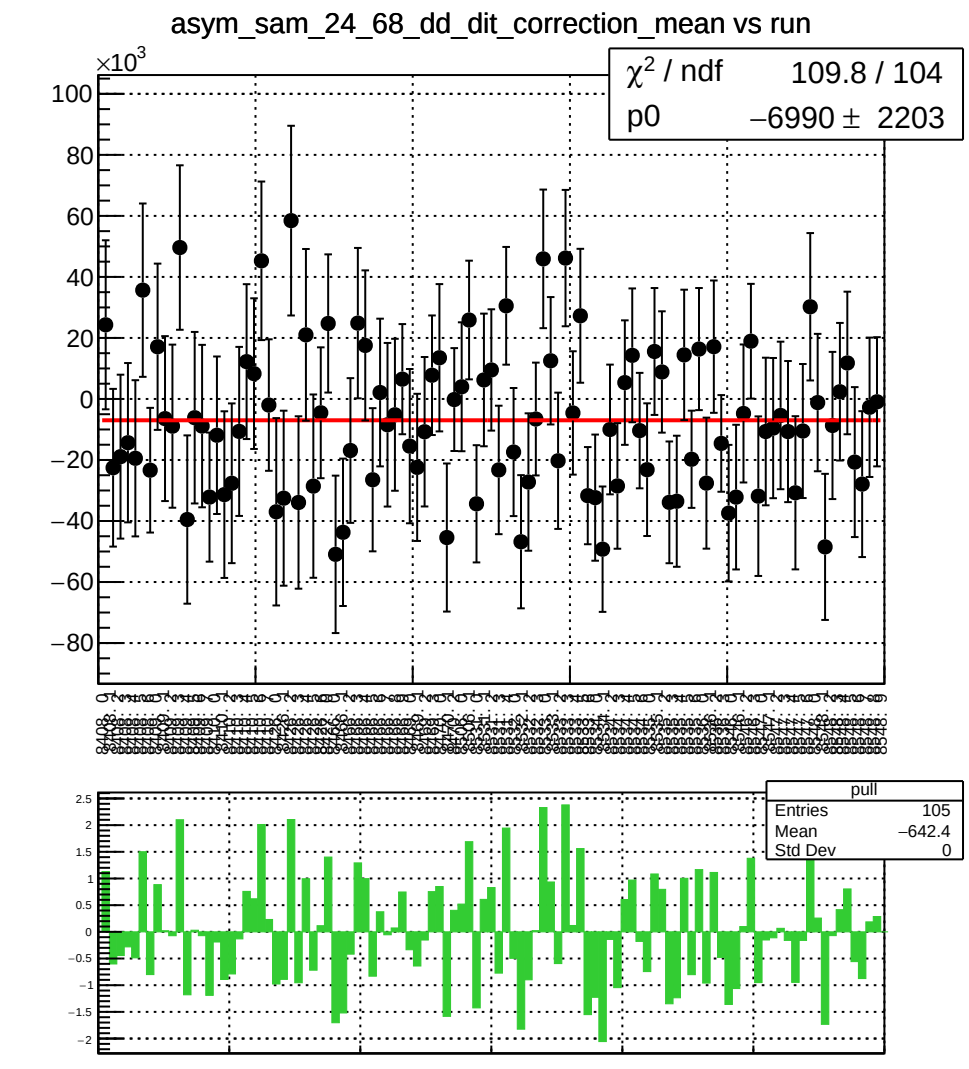

asym_sam_24_68_dd_eigen_cor_correction_mean vs run
×10^3
χ² / ndf 109.3 / 104
p0 −6821 ± 2171
pull
Entries 105
Mean −692.4
Std Dev 0

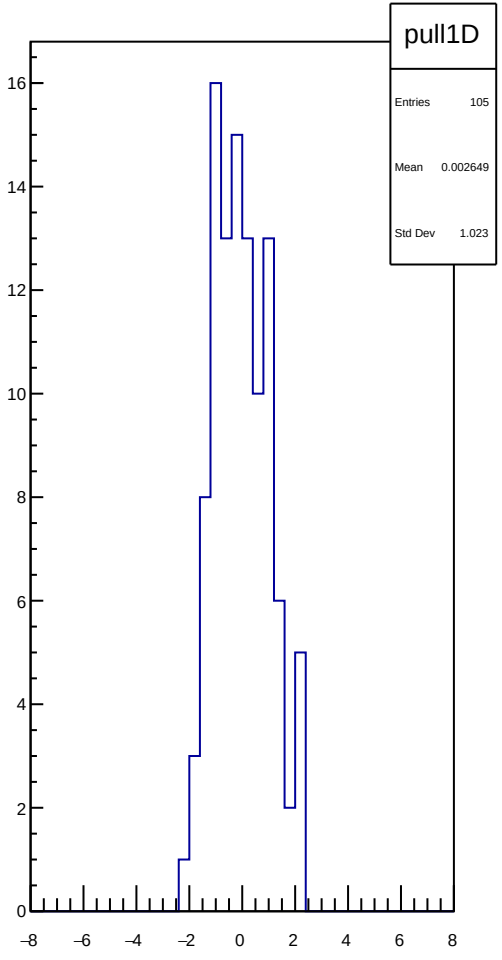

pull1D
Entries 105
Mean 0.002356
Std Dev 1.02

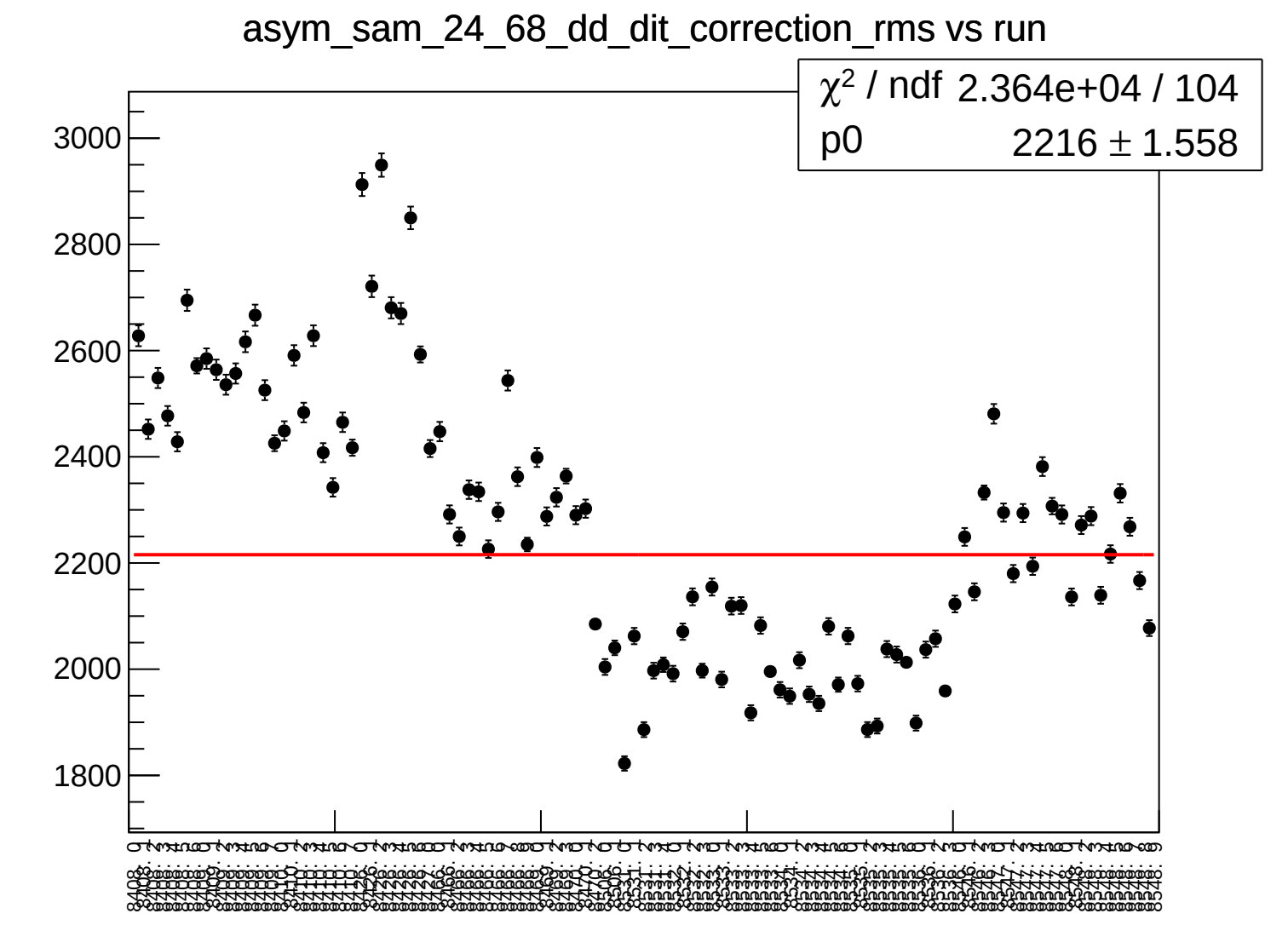

asym_sam_24_68_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.469e+04 / 104
p0 2182 ± 1.535
3000
2800
2600
2400
2200
2000
1800

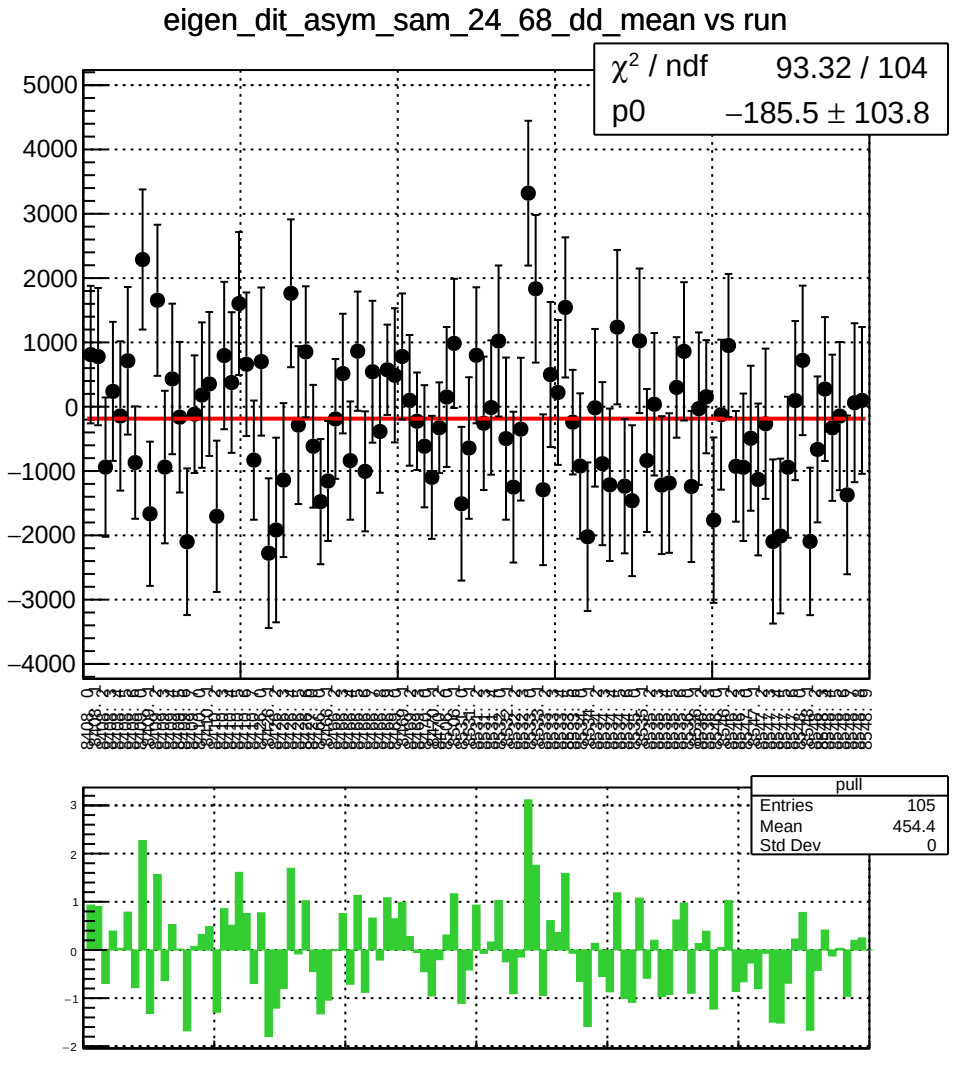

dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 93.32 / 104
p0 −185.5 ± 103.8
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 105
Mean 454.5
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.01197
Std Dev 0.9426
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

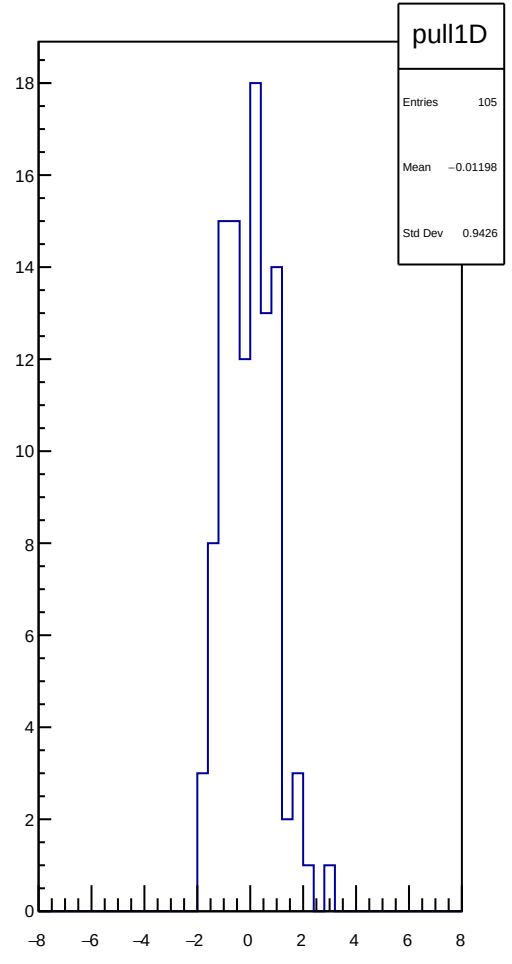

dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.614e+04 / 104
p0 104.6 ± 0.07338
140
130
120
110
100
90

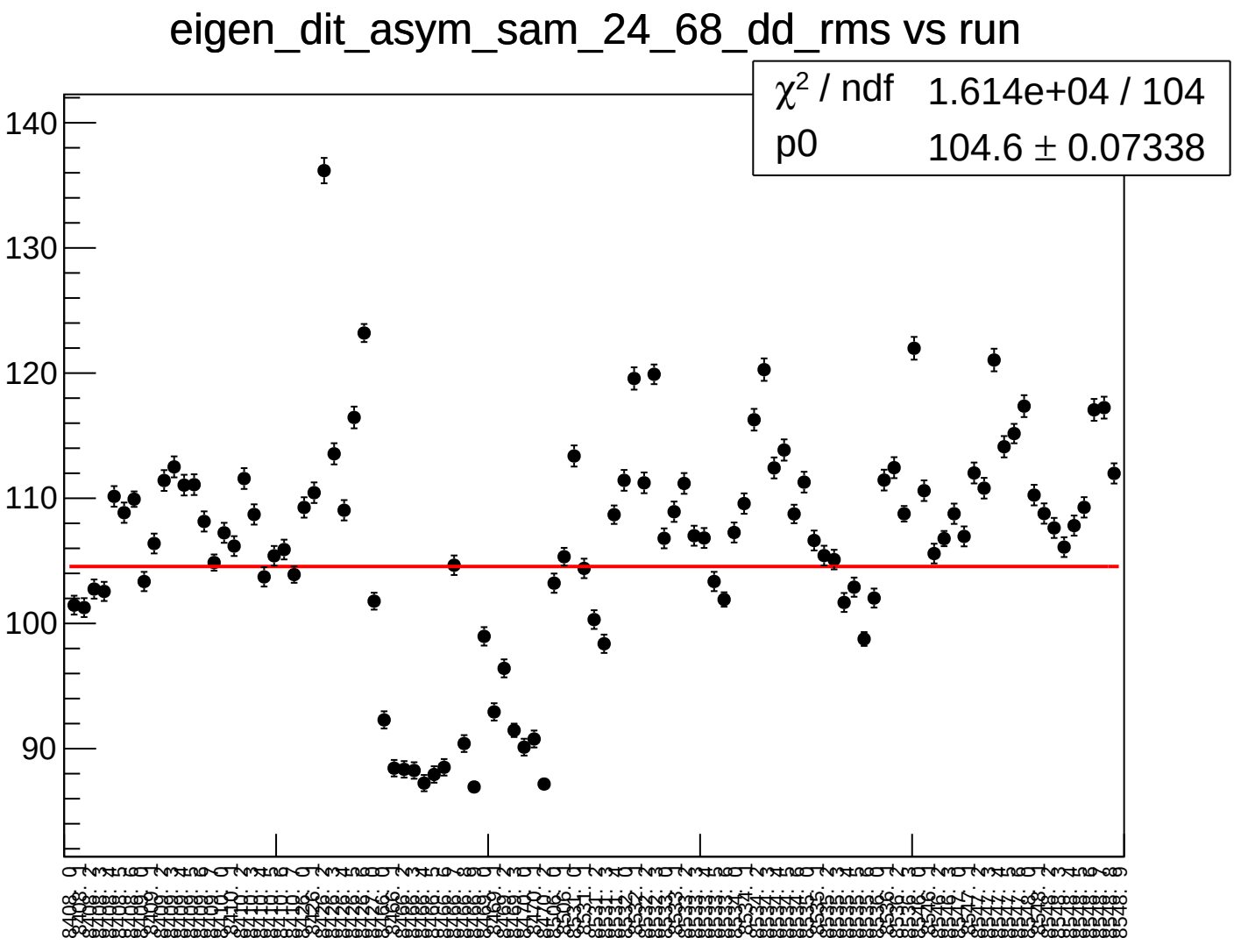

asym_sam_24_68_dd_dit_correction_mean vs run
×10^3
χ² / ndf 109.8 / 104
p0 −6990 ± 2203
pull
Entries 105
Mean −642.4
Std Dev 0

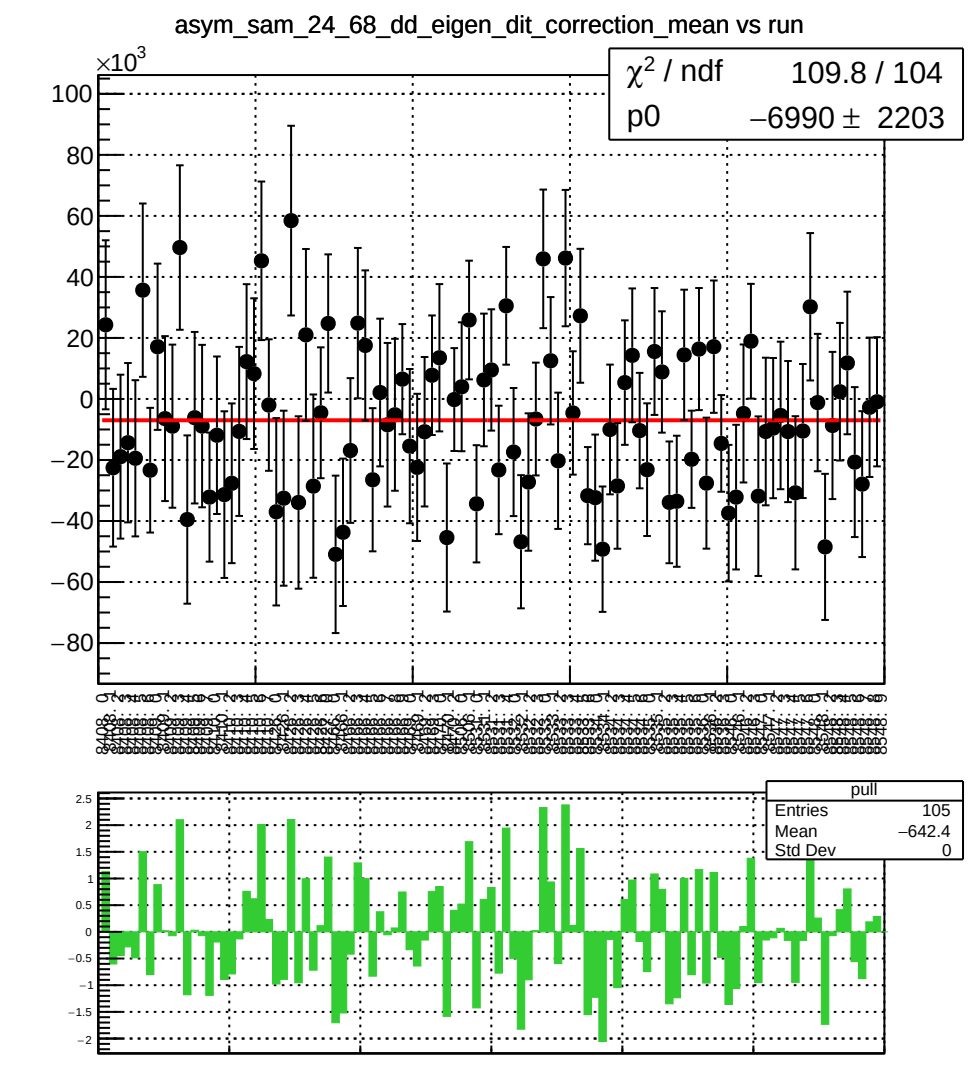

pull1D
Entries 105
Mean 0.002649
Std Dev 1.023

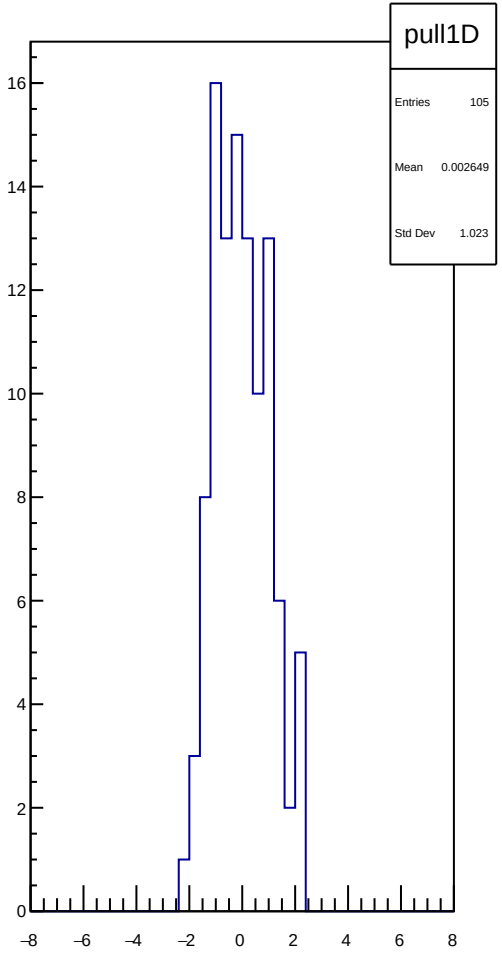

asym_sam_24_68_dd_dit_correction_rms vs run
χ² / ndf 2.364e+04 / 104
p0 2216 ± 1.558
3000
2800
2600
2400
2200
2000
1800

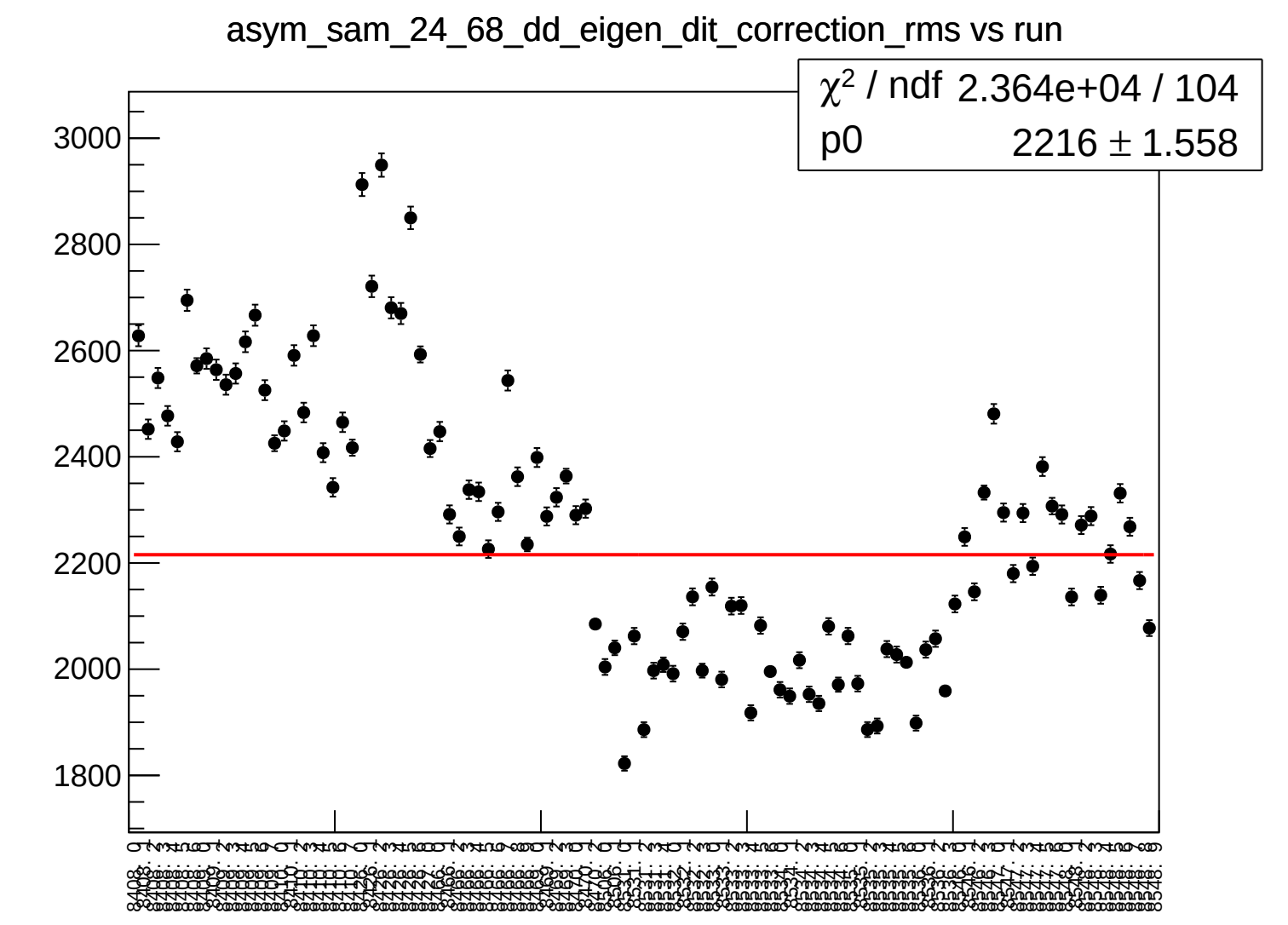

eigen_dit_asym_sam_24_68_dd_mean vs run
χ² / ndf 93.32 / 104
p0 −185.5 ± 103.8
pull
Entries 105
Mean 454.4
Std Dev 0

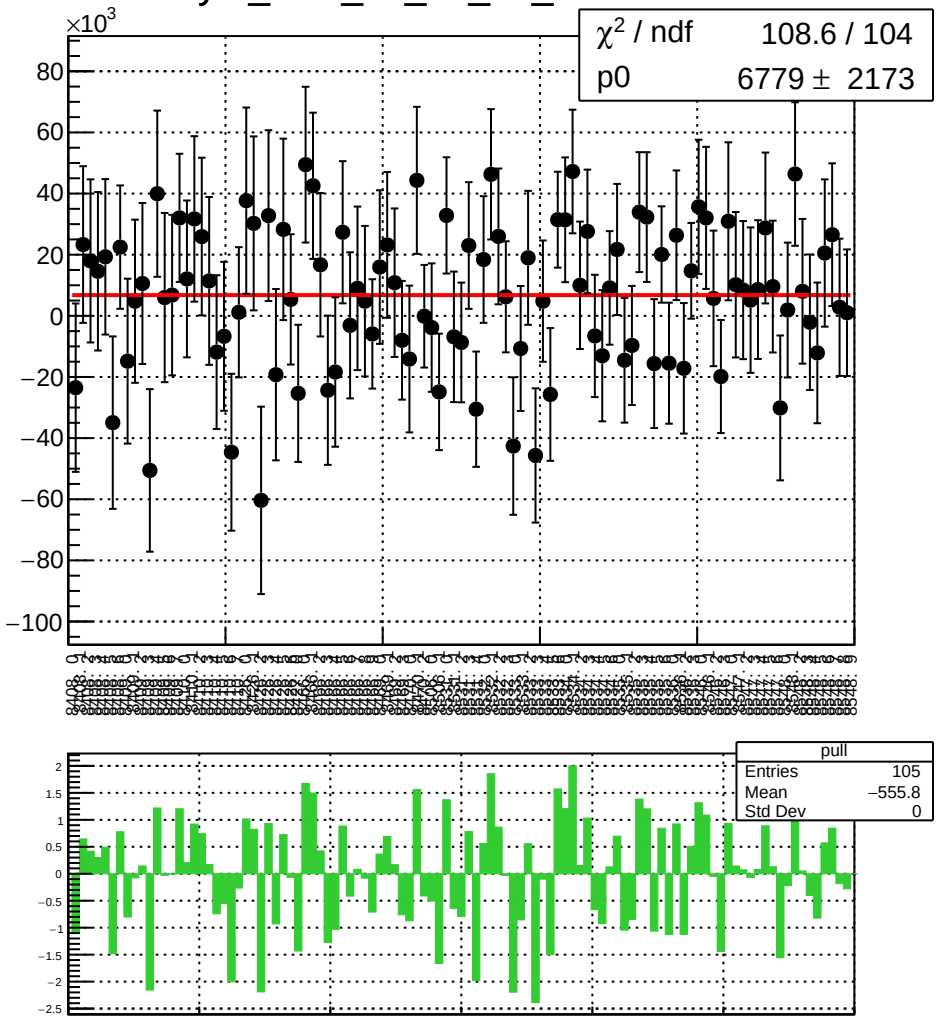

pull1D
Entries 105
Mean −0.01198
Std Dev 0.9426

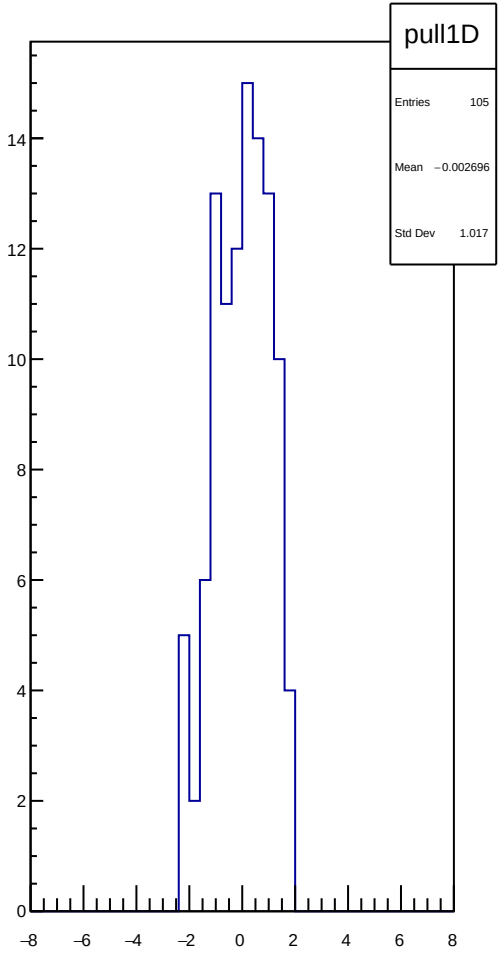

eigen_dit_asym_sam_24_68_dd_rms vs run
χ² / ndf 1.614e+04 / 104
p0 104.6 ± 0.07338
140
130
120
110
100
90

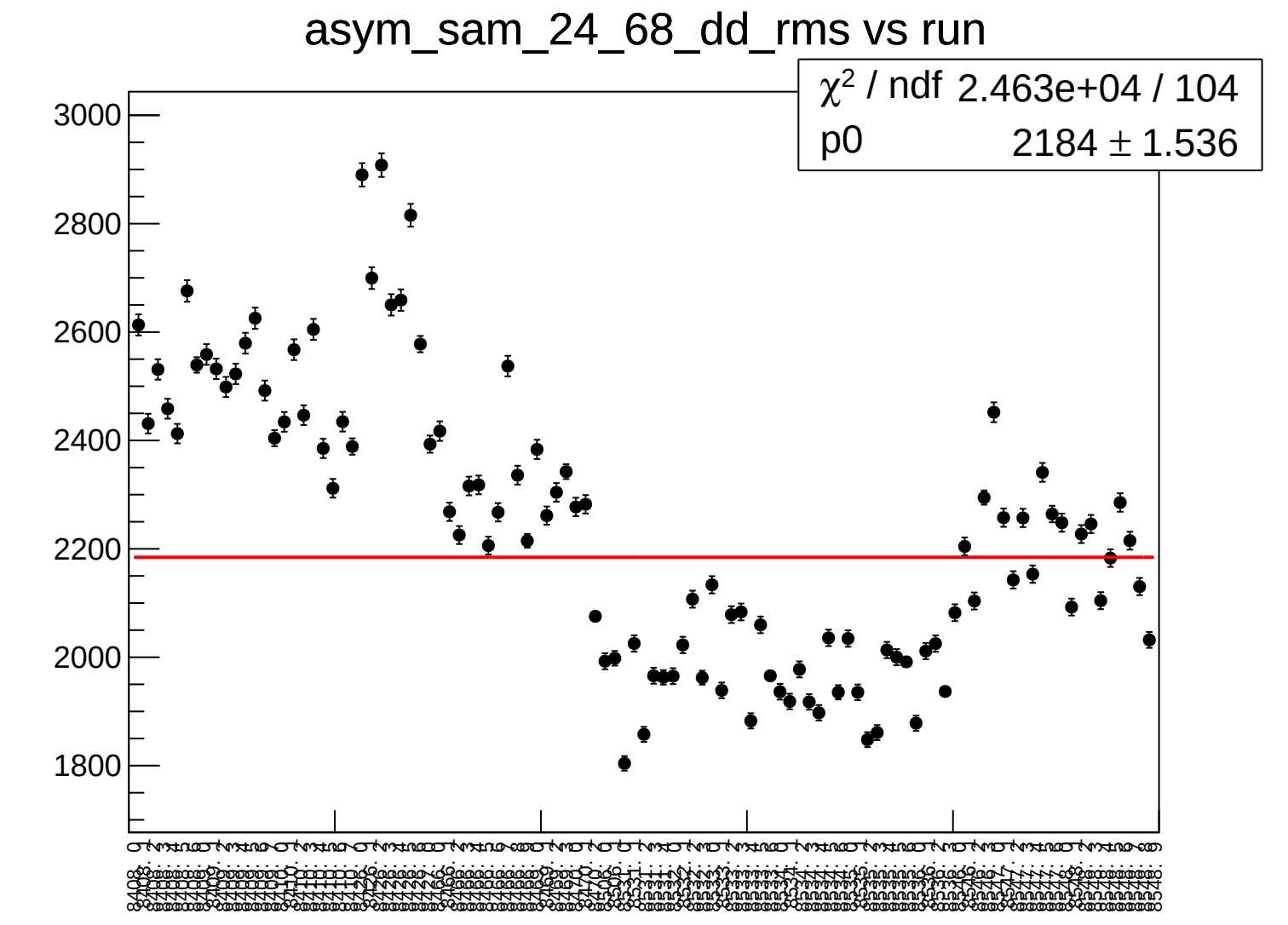

asym_sam_24_68_dd_eigen_dit_correction_mean vs run
×10^3
χ² / ndf 109.8 / 104
p0 −6990 ± 2203
pull
Entries 105
Mean −642.4
Std Dev 0

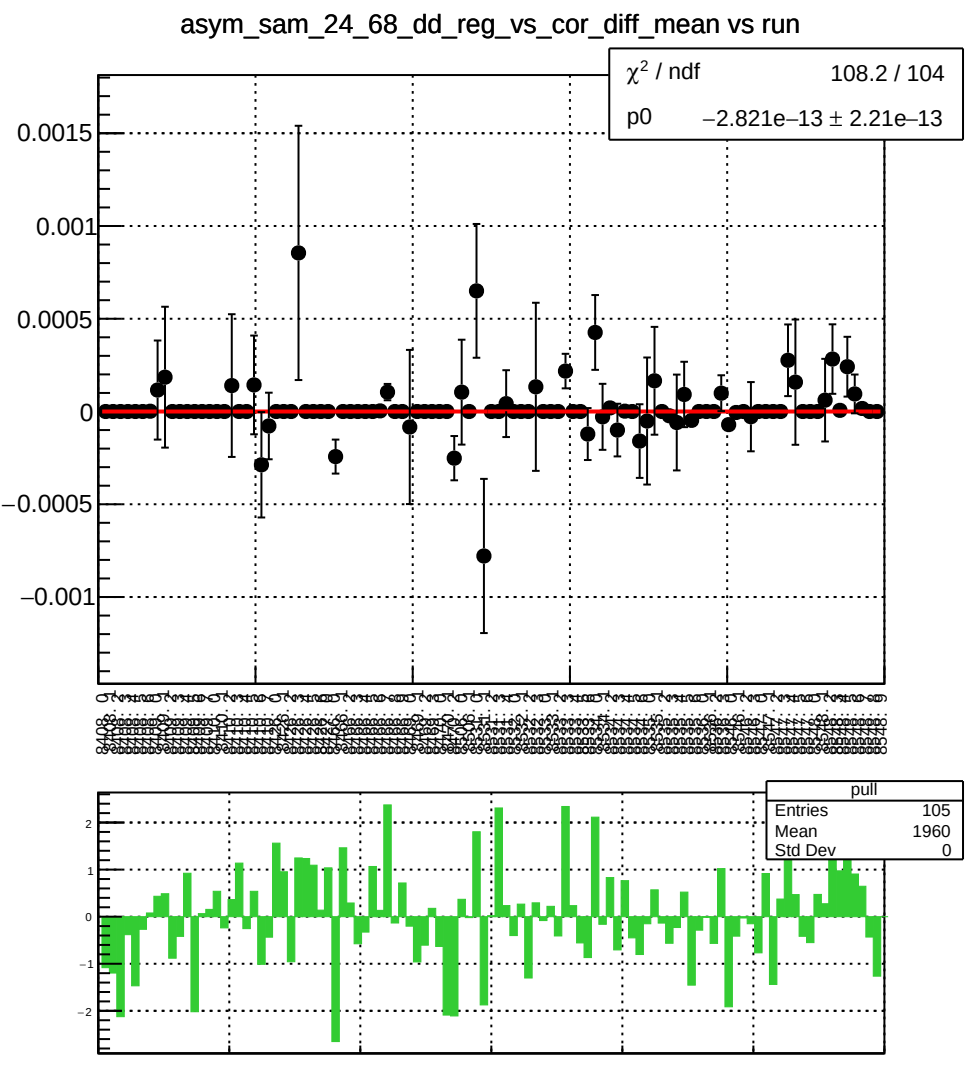

pull1D
Entries 105
Mean 0.002649
Std Dev 1.023

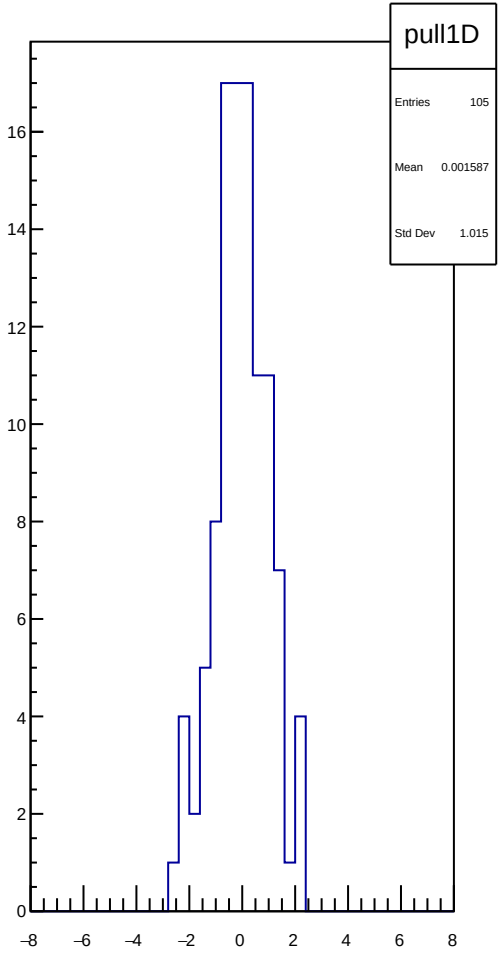

asym_sam_24_68_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.364e+04 / 104
p0 2216 ± 1.558
3000
2800
2600
2400
2200
2000
1800

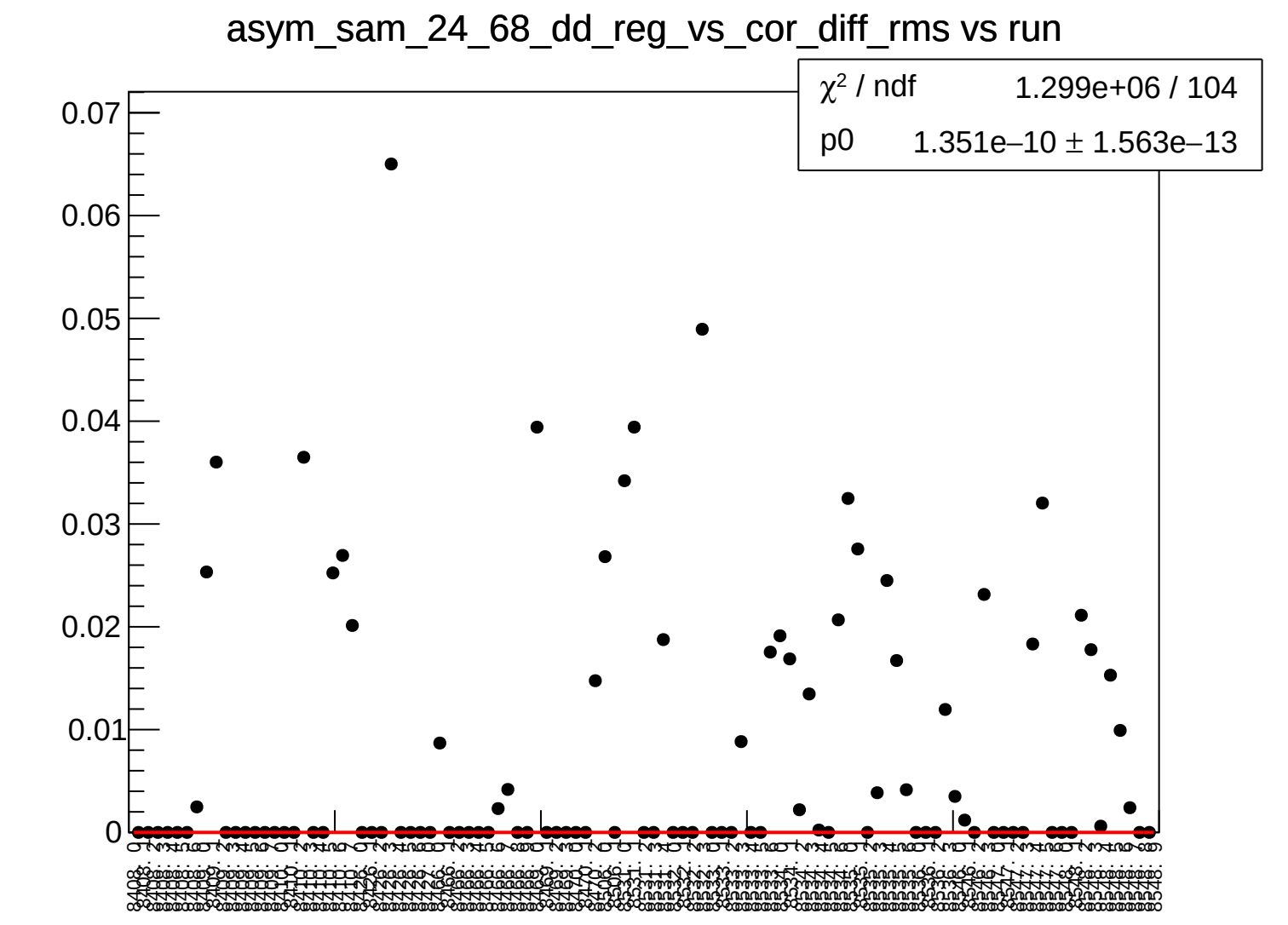

asym_sam_24_68_dd_mean vs run
×10^3
χ^2 / ndf 108.6 / 104
p0 6779 ± 2173
pull
Entries 105
Mean −555.8
Std Dev 0

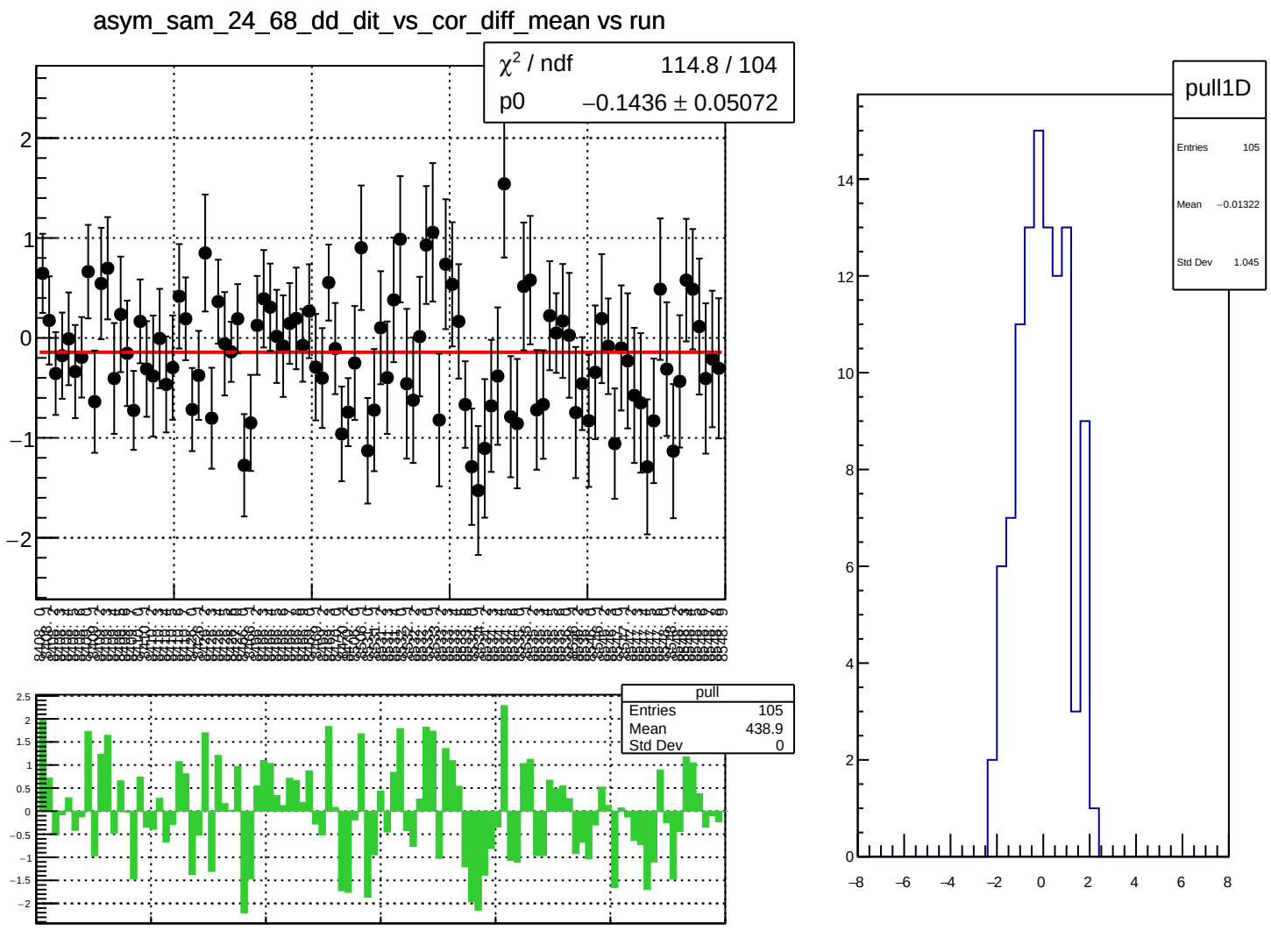

pull1D
Entries 105
Mean −0.002696
Std Dev 1.017

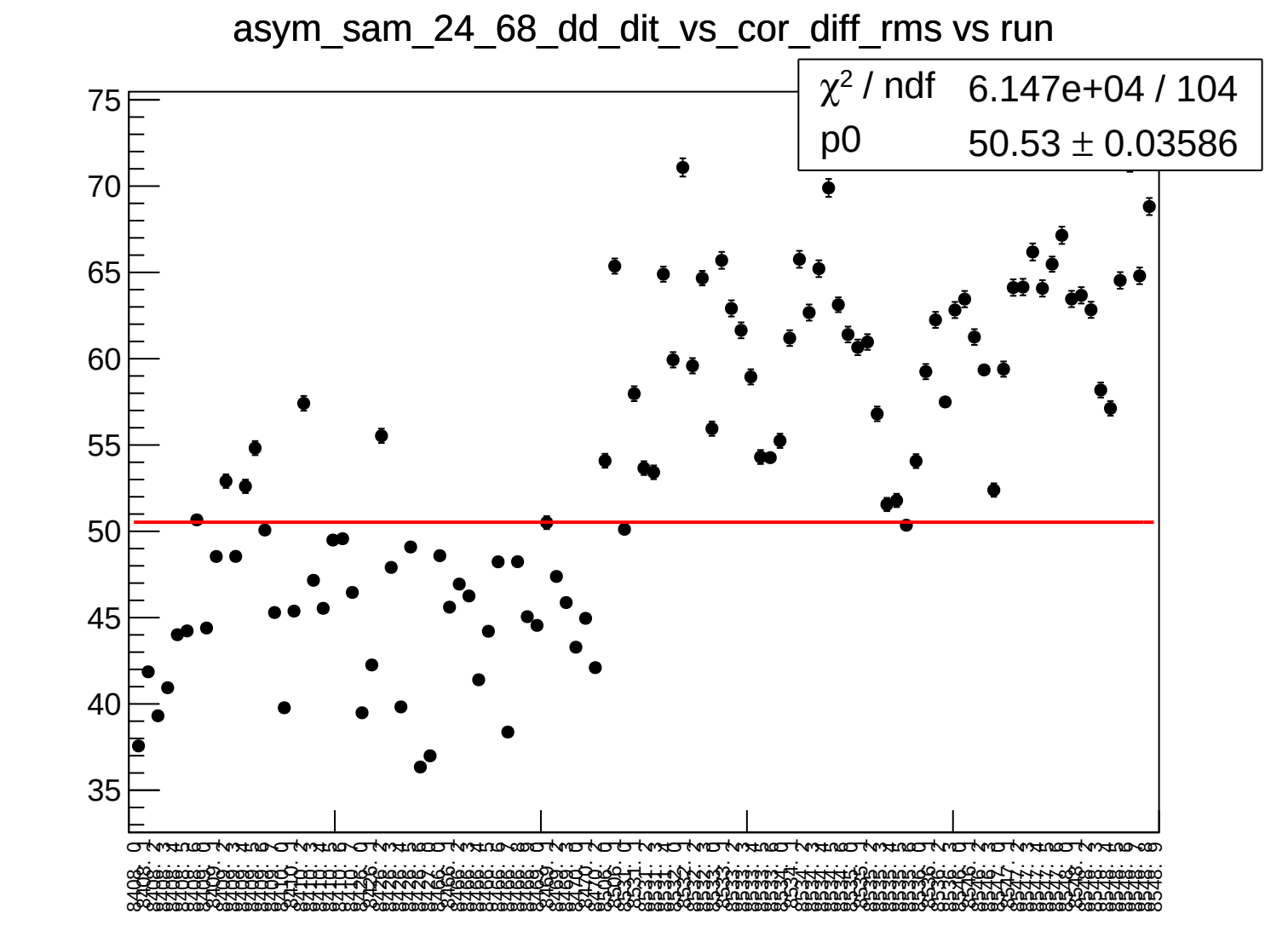

asym_sam_24_68_dd_rms vs run
χ² / ndf 2.463e+04 / 104
p0 2184 ± 1.536
3000
2800
2600
2400
2200
2000
1800

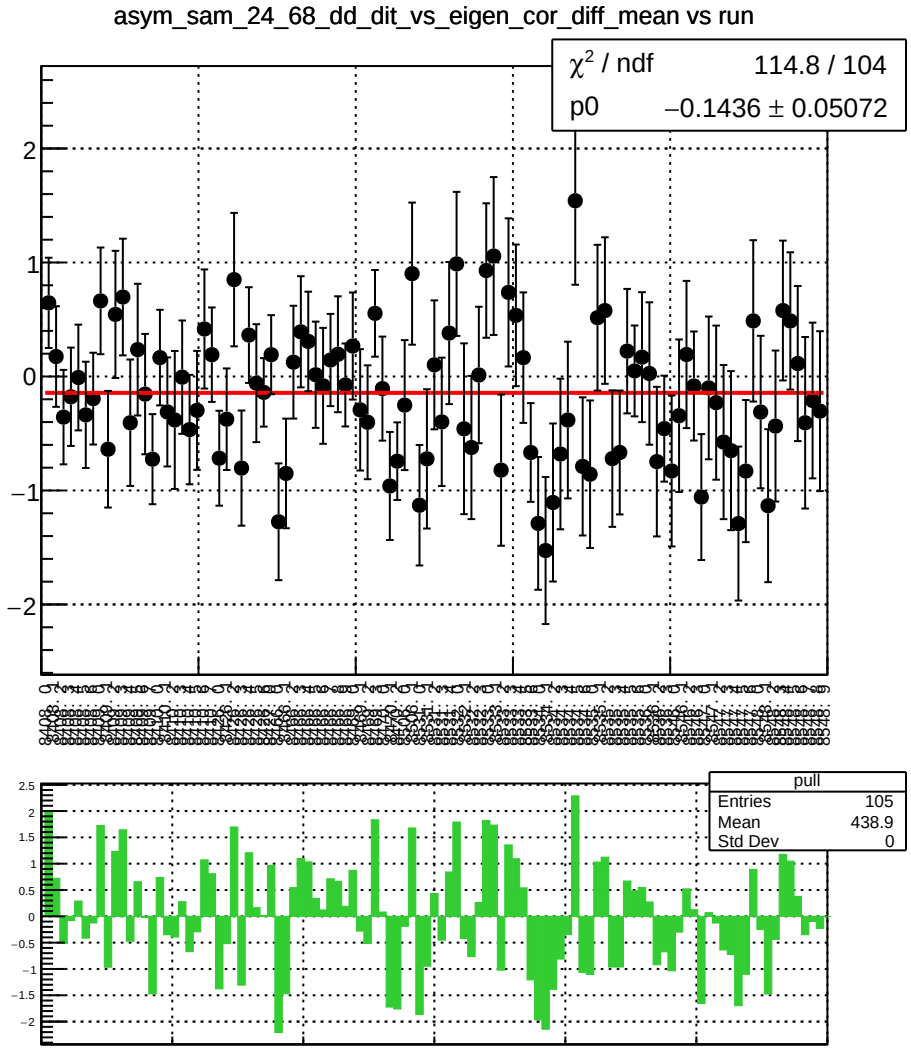

asym_sam_24_68_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 108.2 / 104
p0 −2.821e−13 ± 2.21e−13
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 105
Mean 1960
Std Dev 0
2
1
0
−1
−2

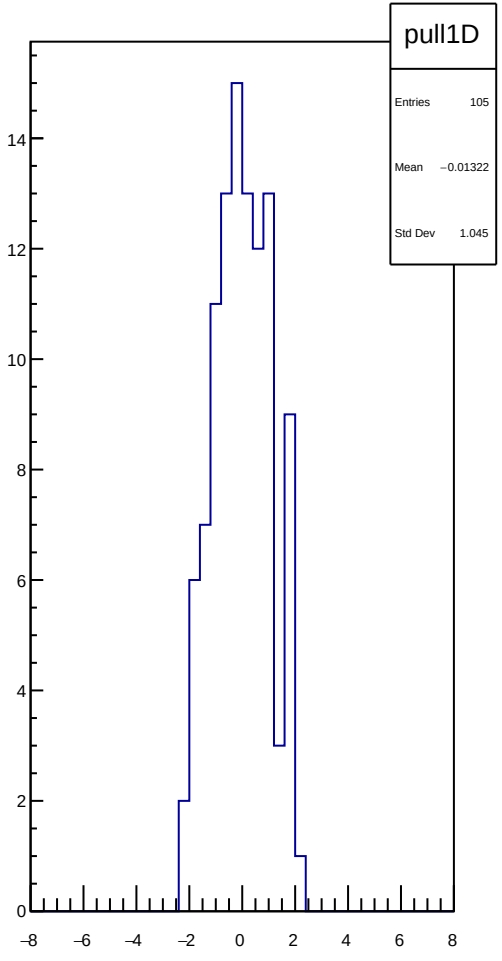

pull1D
Entries 105
Mean 0.001587
Std Dev 1.015
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

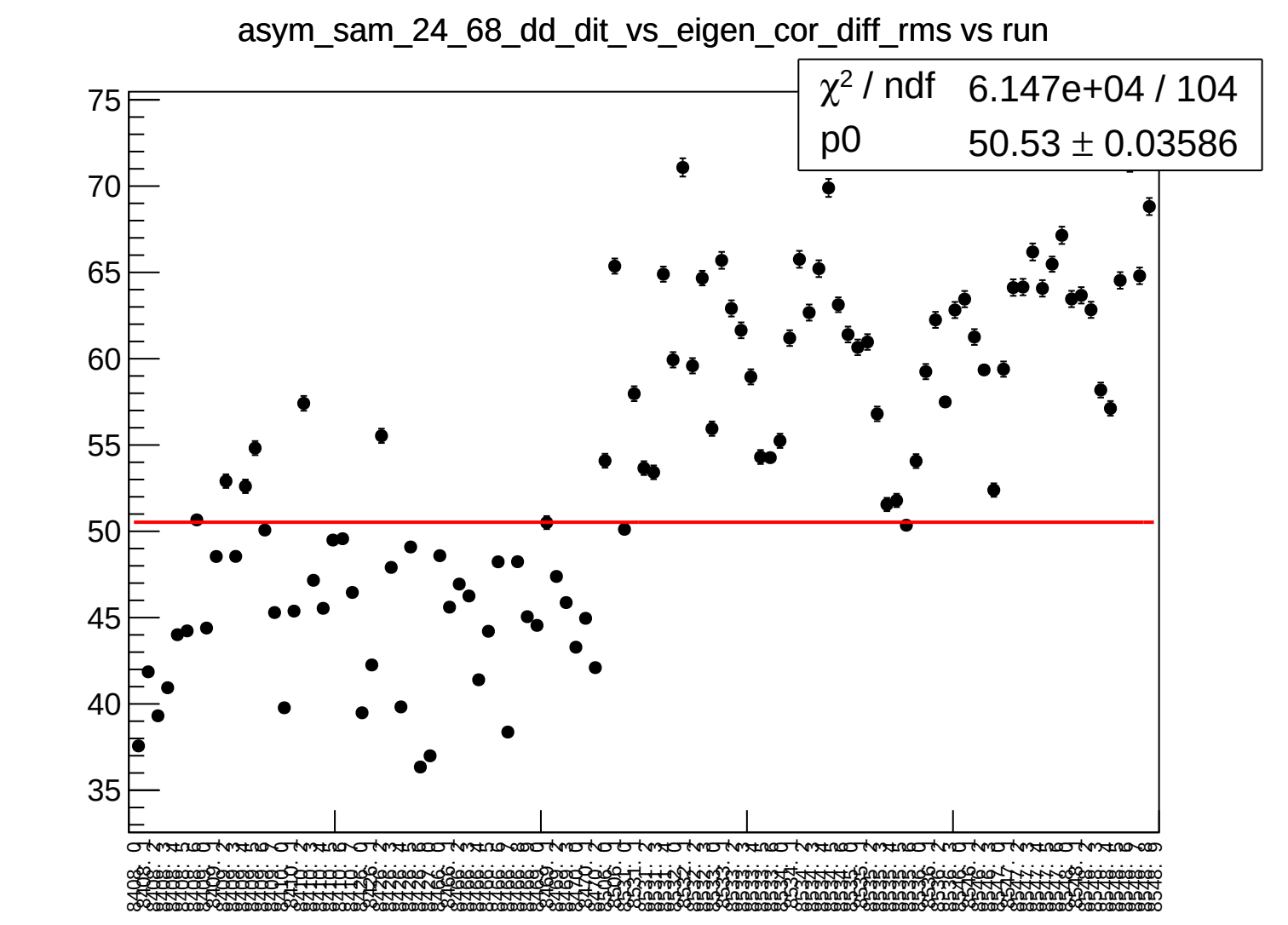

asym_sam_24_68_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.299e+06 / 104
p0 1.351e−10 ± 1.563e−13
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

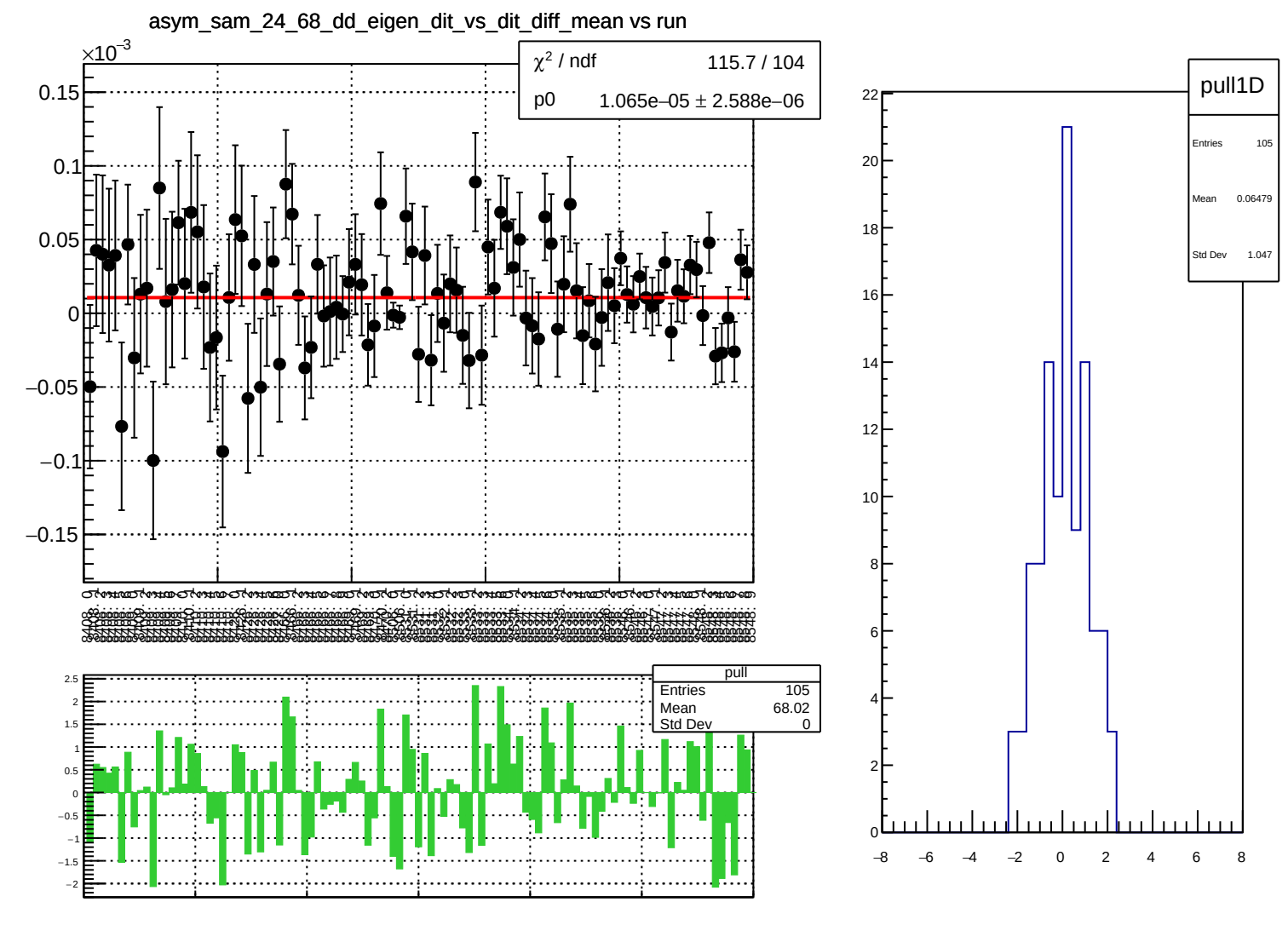

asym_sam_24_68_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 114.8 / 104
p0 −0.1436 ± 0.05072
pull
Entries 105
Mean 438.9
Std Dev 0
pull1D
Entries 105
Mean −0.01322
Std Dev 1.045

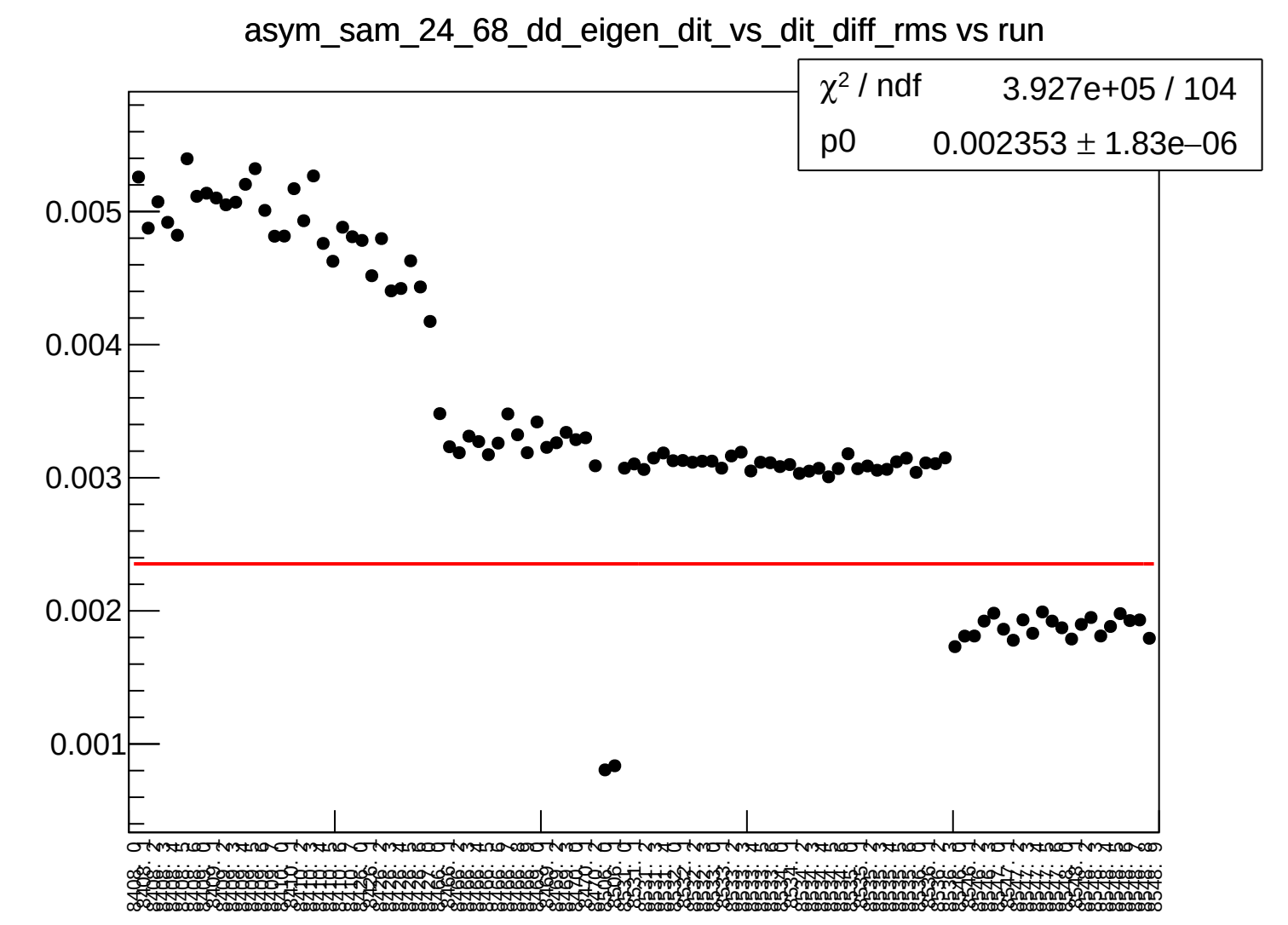

asym_sam_24_68_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.147e+04 / 104
p0 50.53 ± 0.03586
75
70
65
60
55
50
45
40
35

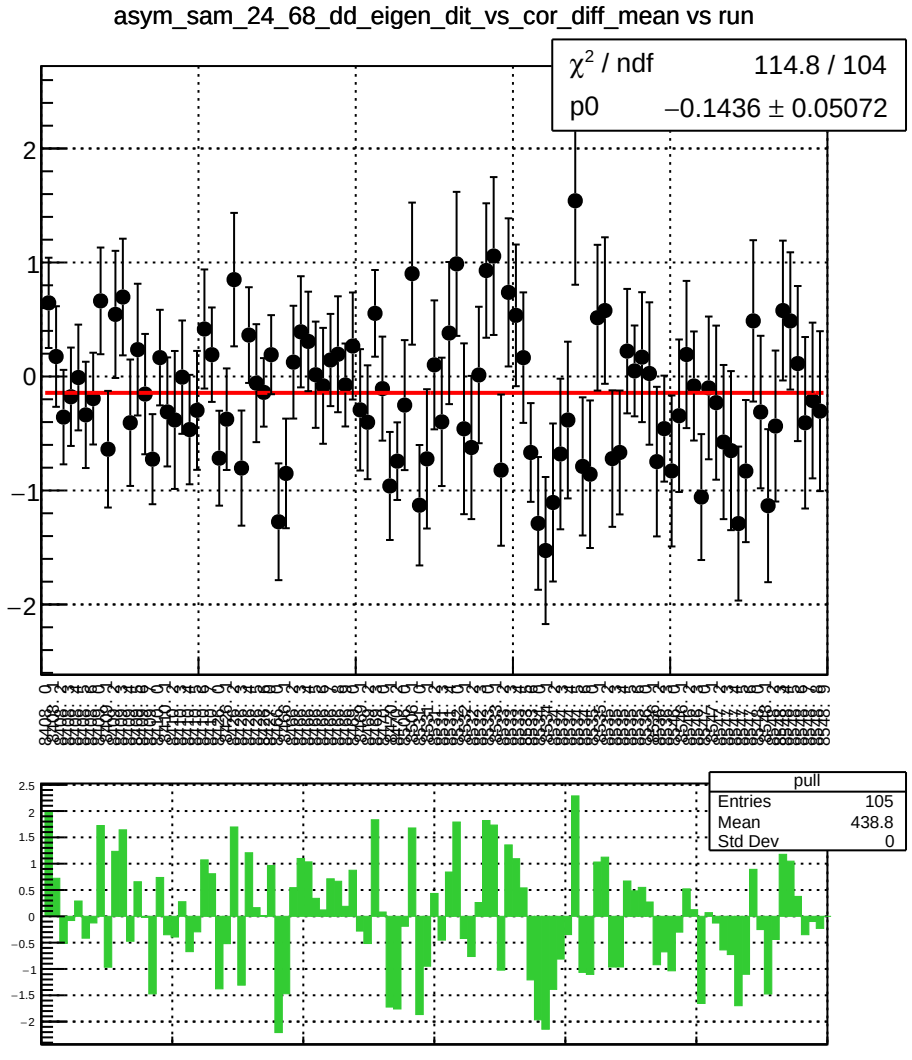

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 114.8 / 104
p0 −0.1436 ± 0.05072
pull
Entries 105
Mean 438.9
Std Dev 0

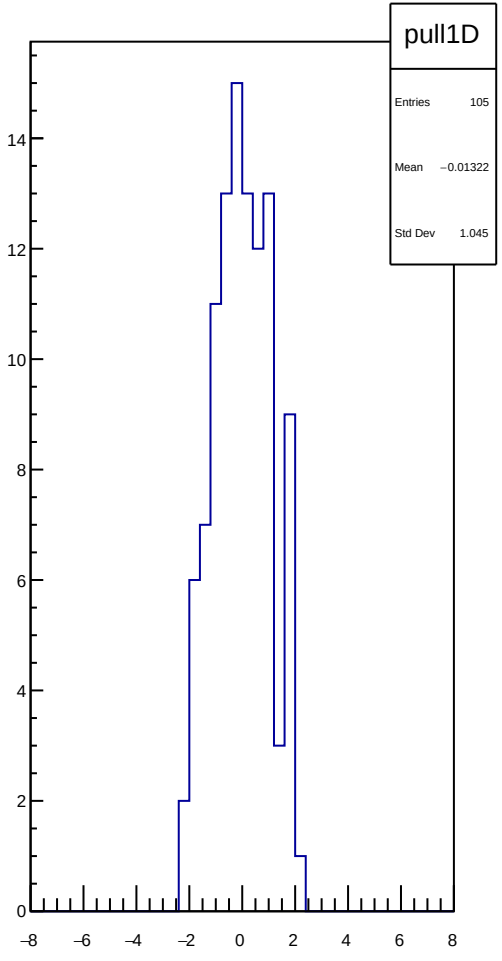

pull1D
Entries 105
Mean −0.01322
Std Dev 1.045

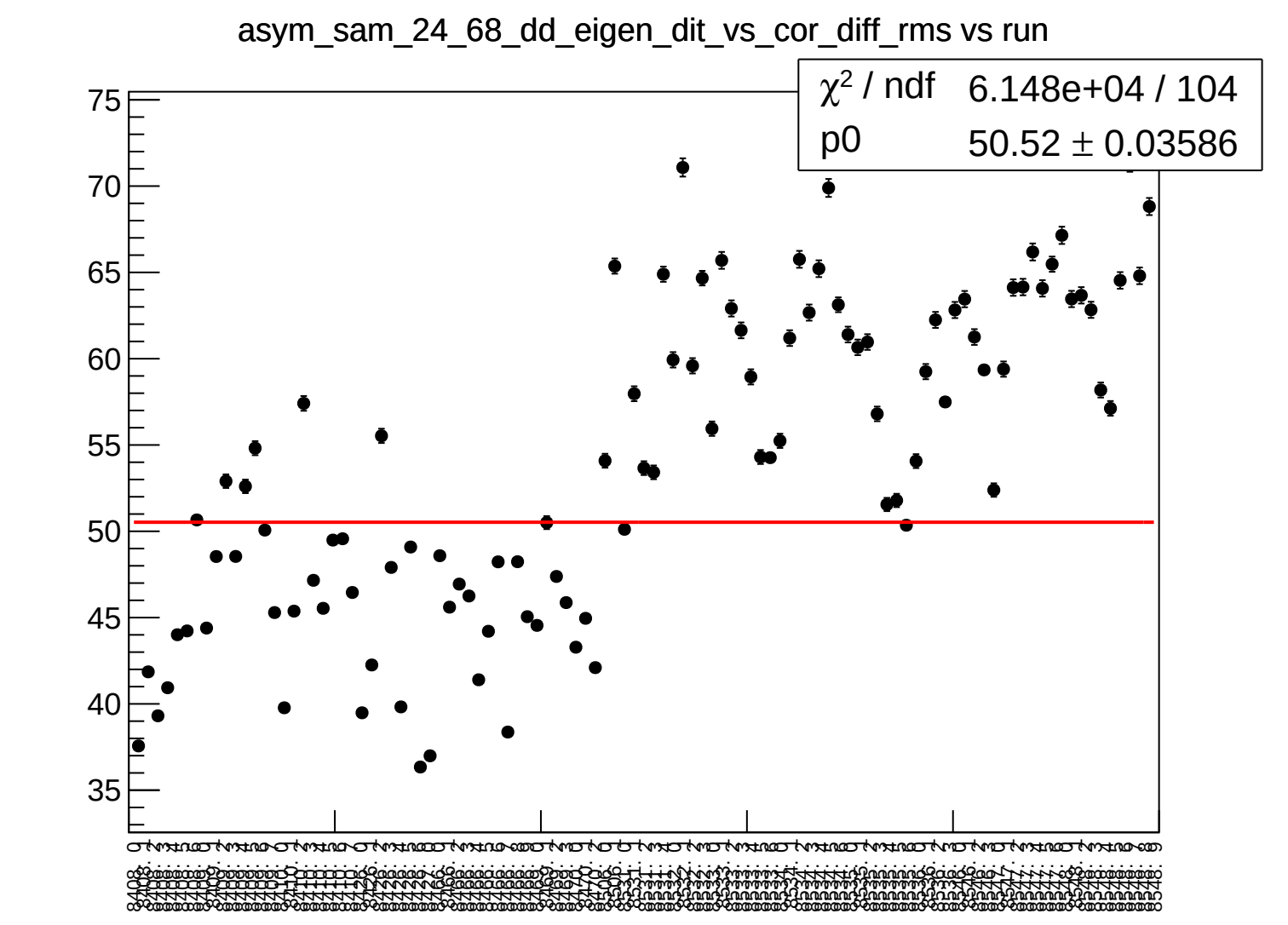

asym_sam_24_68_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.147e+04 / 104
p0 50.53 ± 0.03586
75
70
65
60
55
50
45
40
35

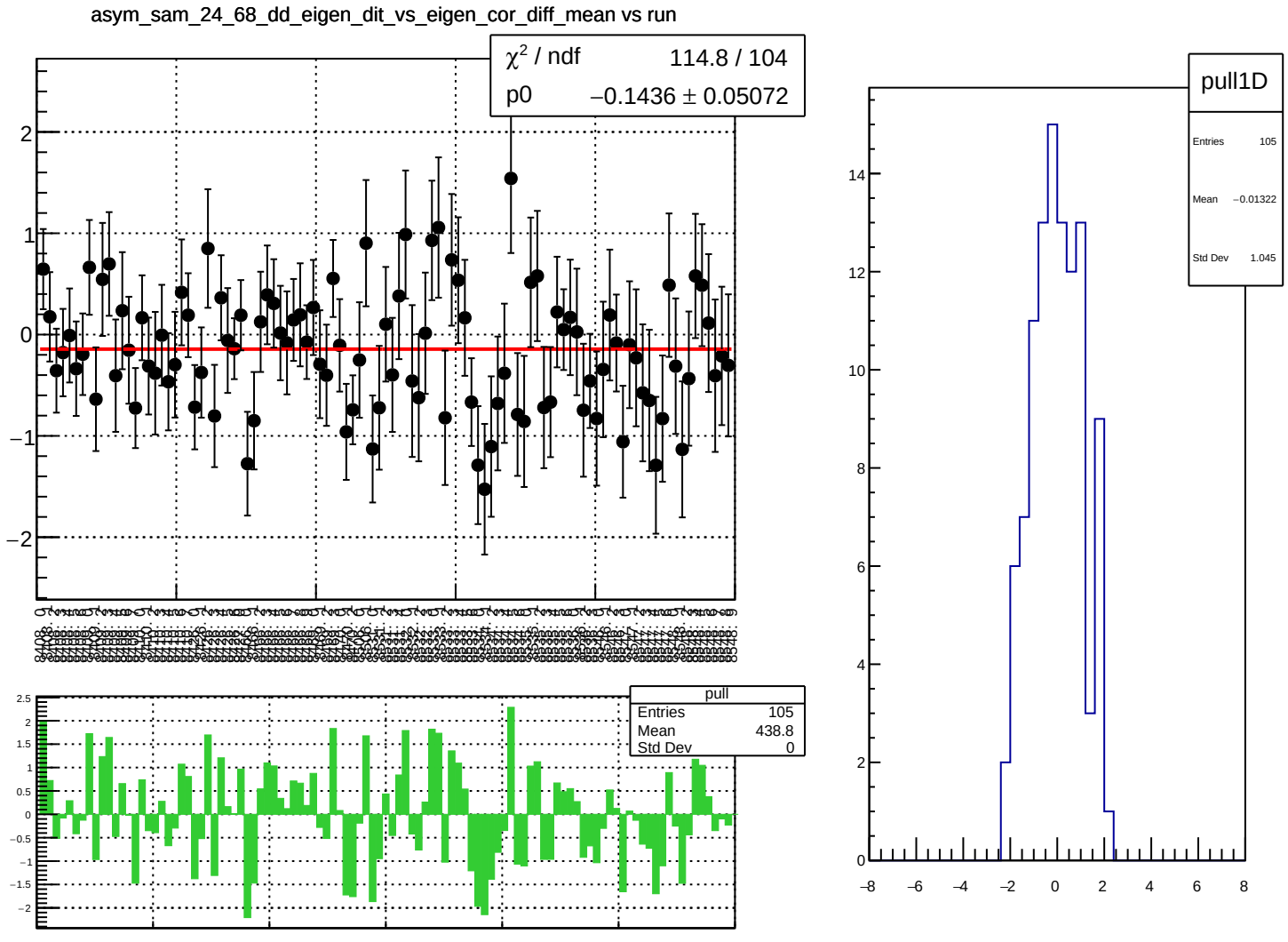

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 115.7 / 104
p0 1.065e−05 ± 2.588e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 105
Mean 68.02
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 105
Mean 0.06479
Std Dev 1.047
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

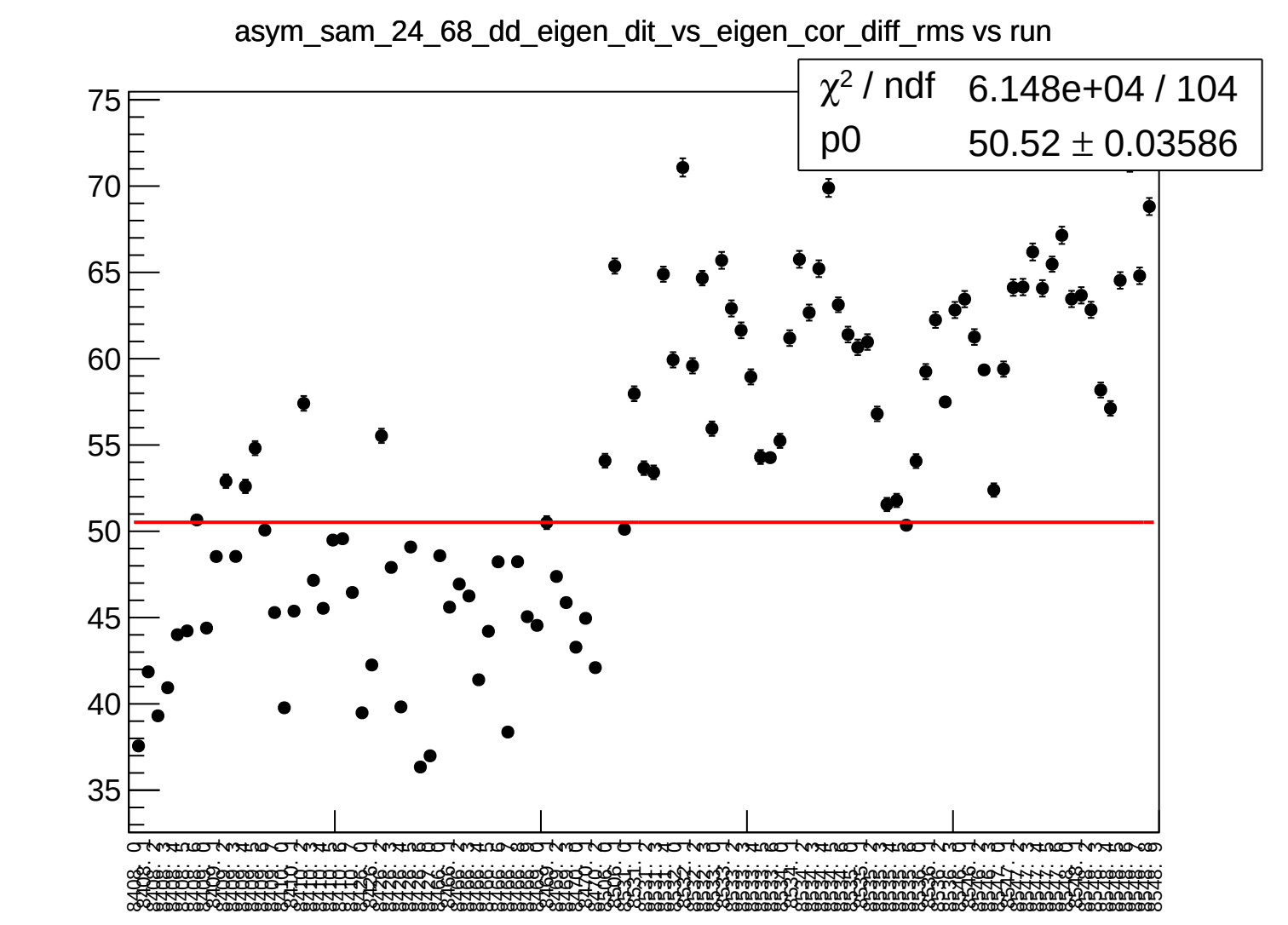

asym_sam_24_68_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.927e+05 / 104
p0 0.002353 ± 1.83e−06
0.005
0.004
0.003
0.002
0.001

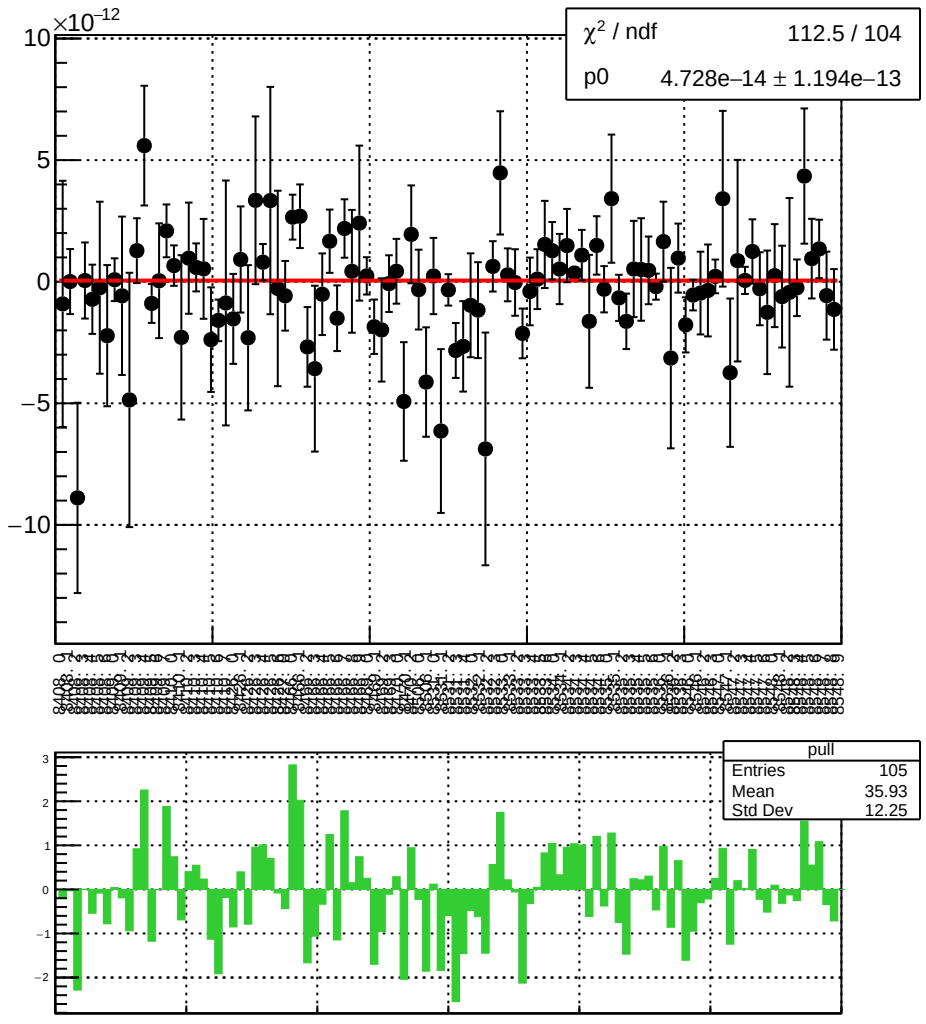

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 114.8 / 104
p0 −0.1436 ± 0.05072
pull
Entries 105
Mean 438.8
Std Dev 0

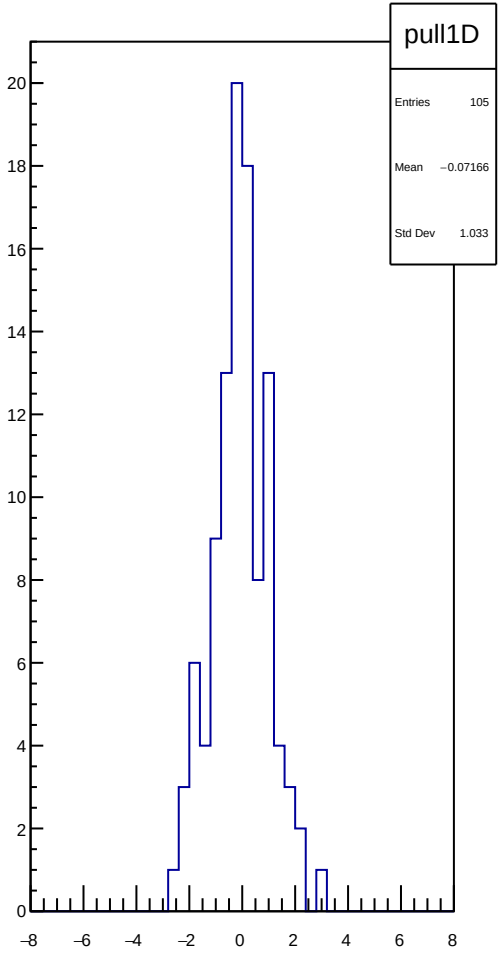

pull1D
Entries 105
Mean −0.01322
Std Dev 1.045

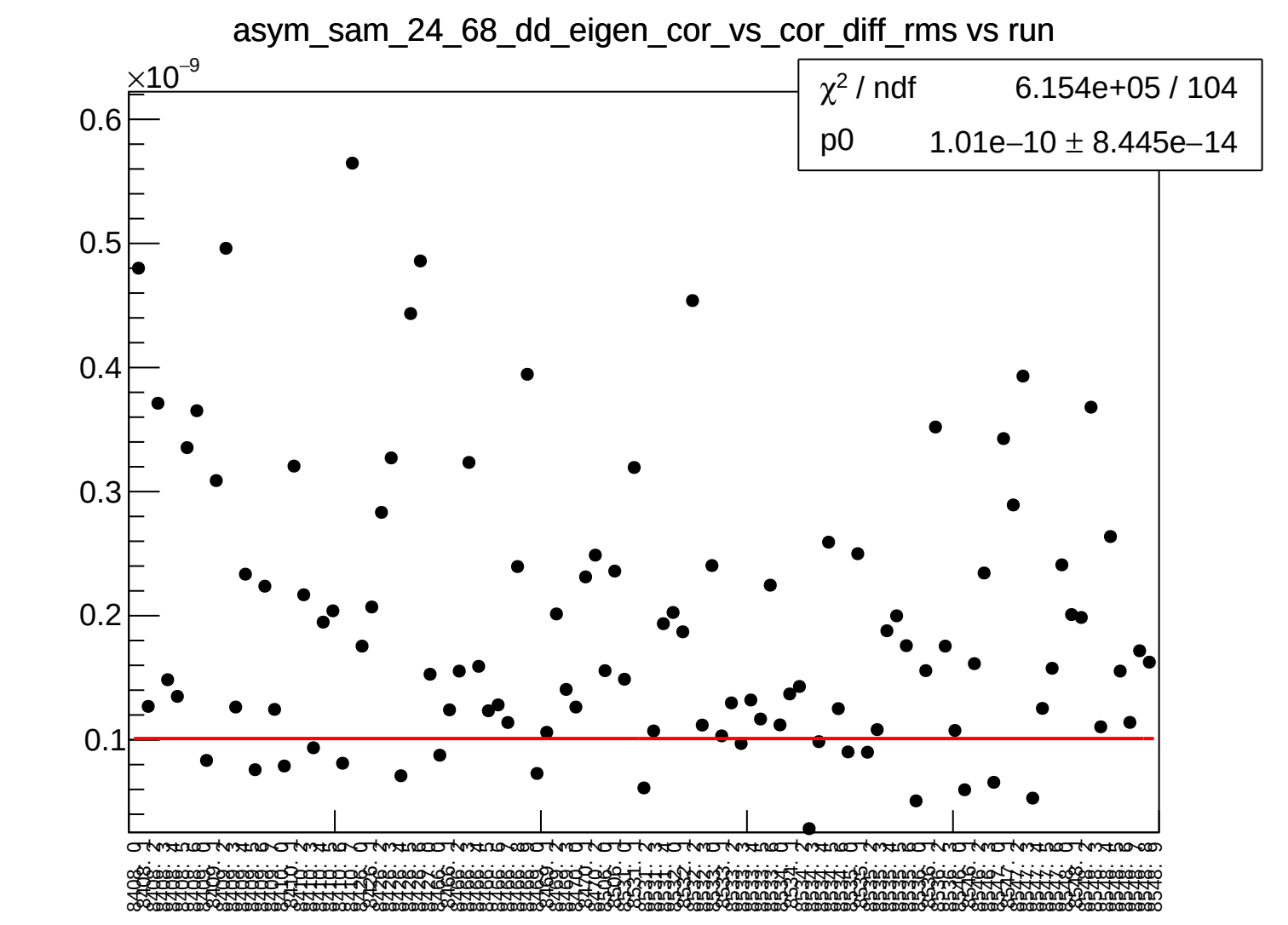

asym_sam_24_68_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.148e+04 / 104
p0 50.52 ± 0.03586
75
70
65
60
55
50
45
40
35

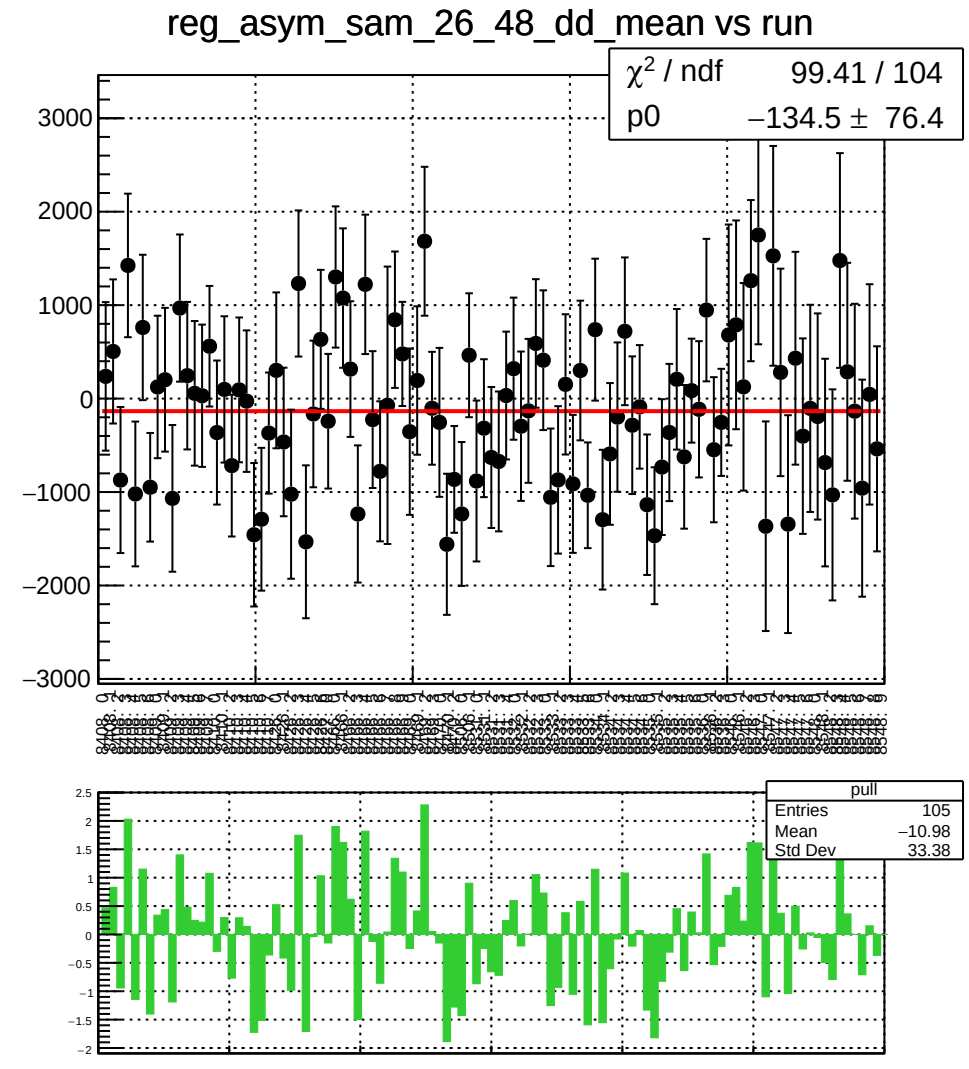

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 114.8 / 104
p0 −0.1436 ± 0.05072
pull
Entries 105
Mean 438.8
Std Dev 0
pull1D
Entries 105
Mean −0.01322
Std Dev 1.045

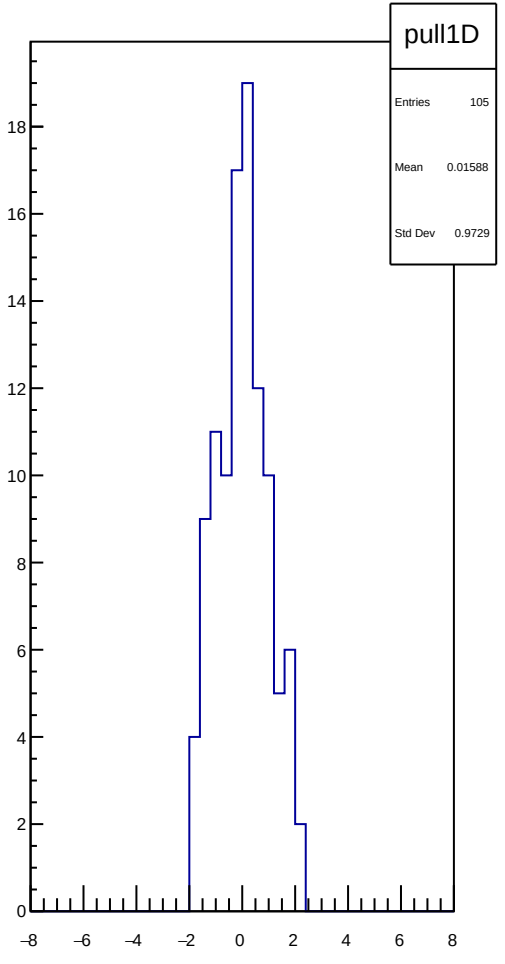

asym_sam_24_68_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.148e+04 / 104
p0 50.52 ± 0.03586
75
70
65
60
55
50
45
40
35

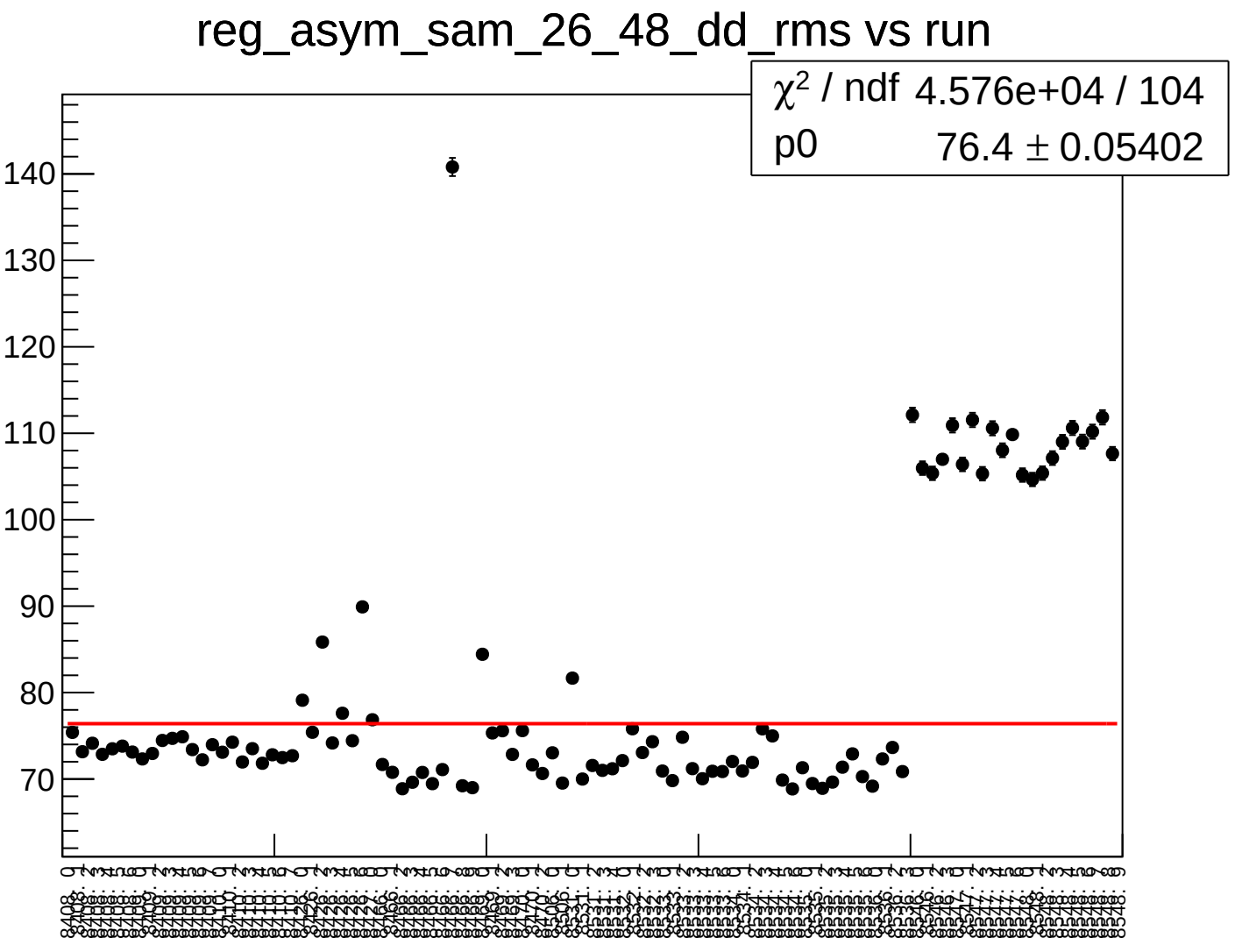

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 112.5 / 104
p0 4.728e−14 ± 1.194e−13
pull
Entries 105
Mean 35.93
Std Dev 12.25

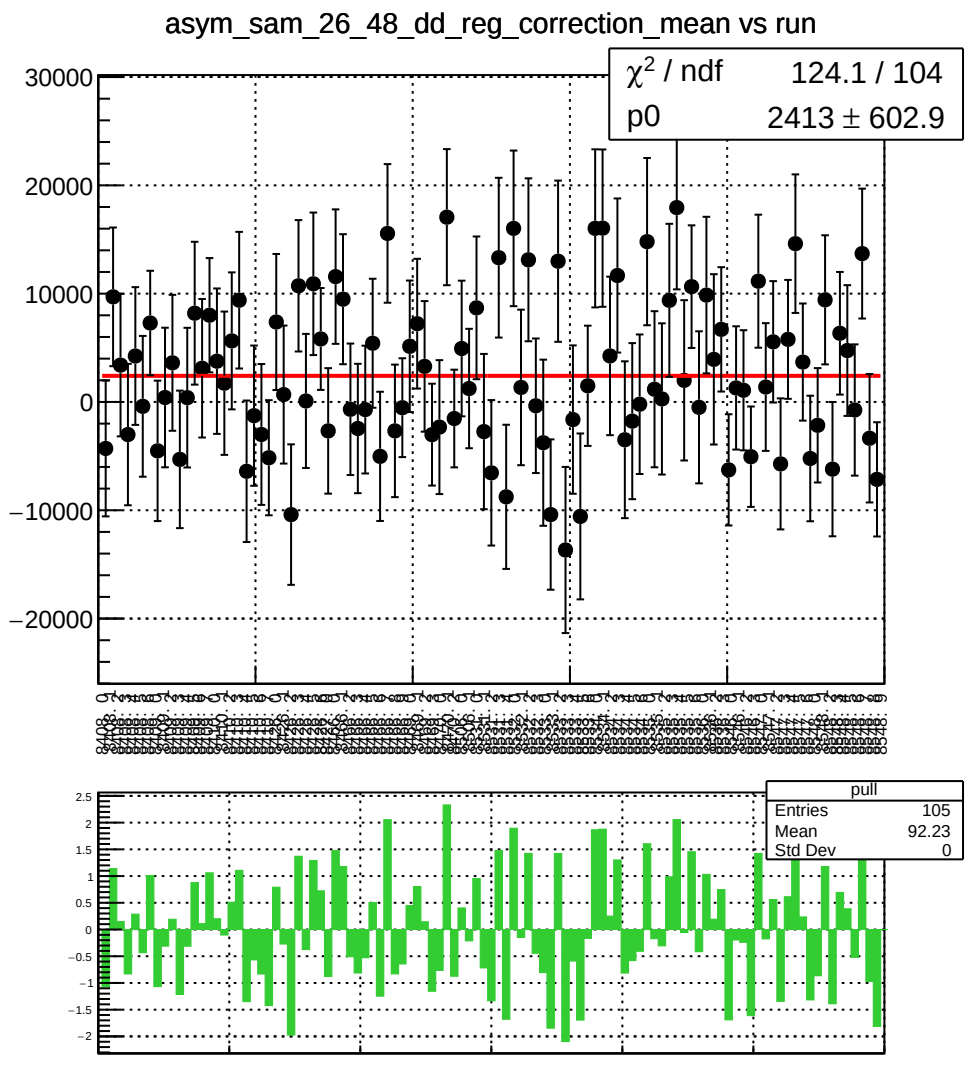

pull1D
Entries 105
Mean −0.07166
Std Dev 1.033

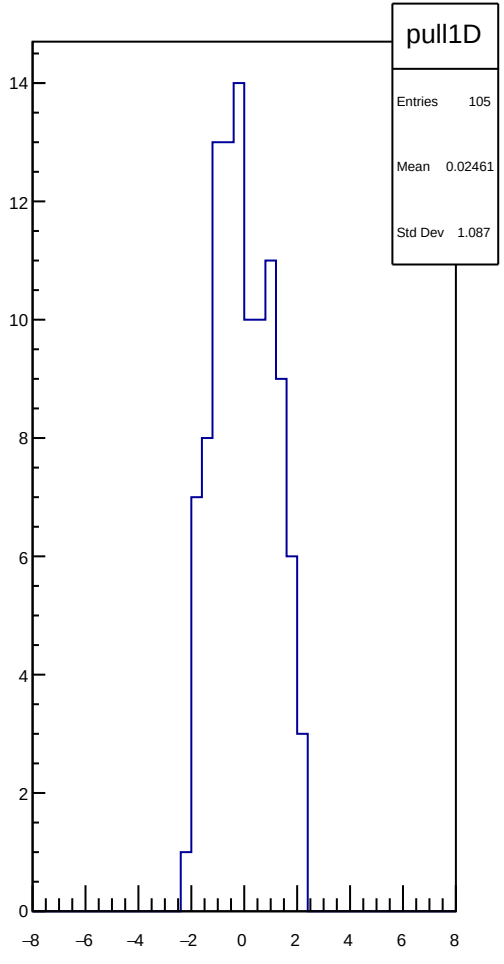

asym_sam_24_68_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.154e+05 / 104
p0 1.01e−10 ± 8.445e−14
0.6
0.5
0.4
0.3
0.2
0.1

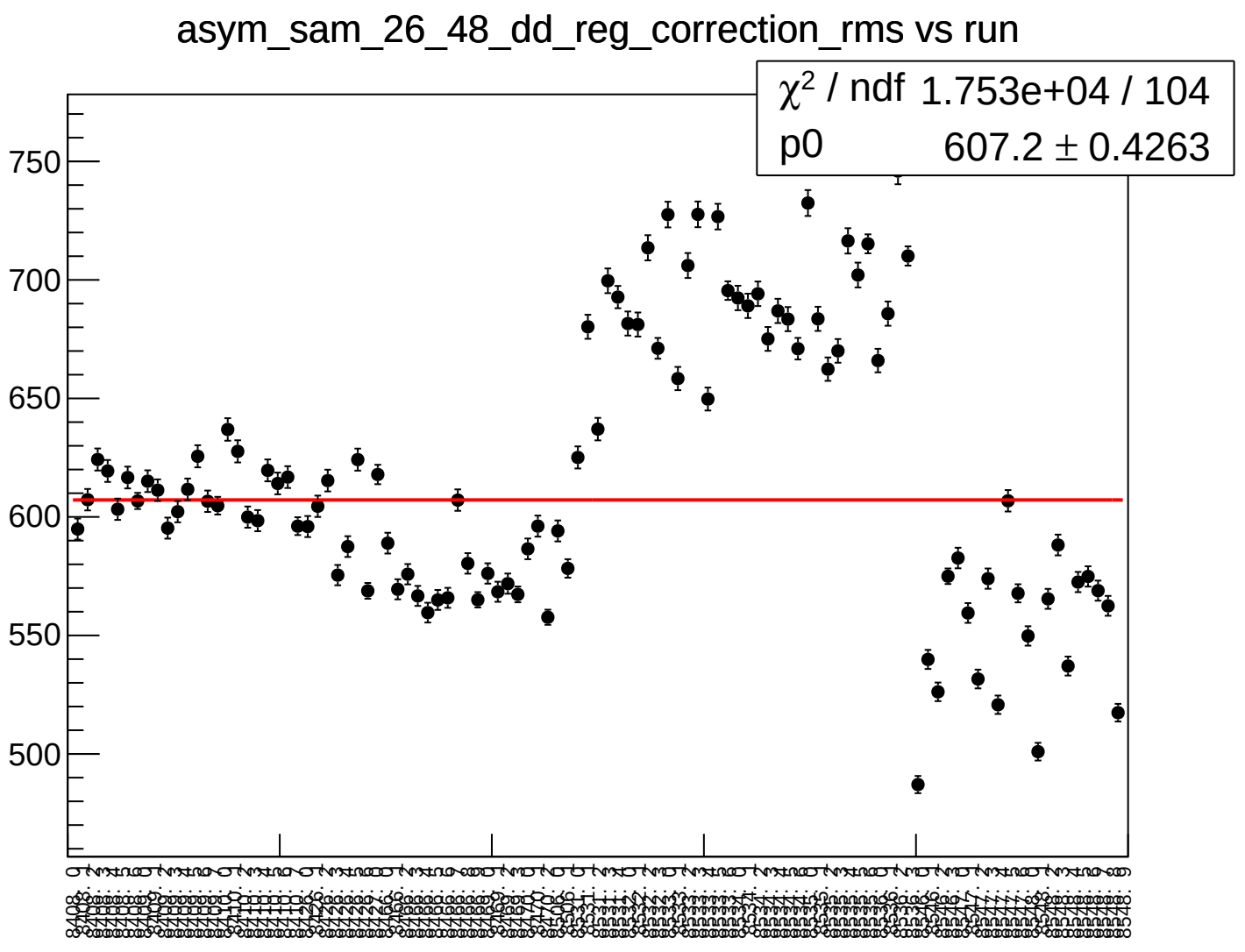

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 99.41 / 104
p0 −134.5 ± 76.4
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 105
Mean −10.98
Std Dev 33.38
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

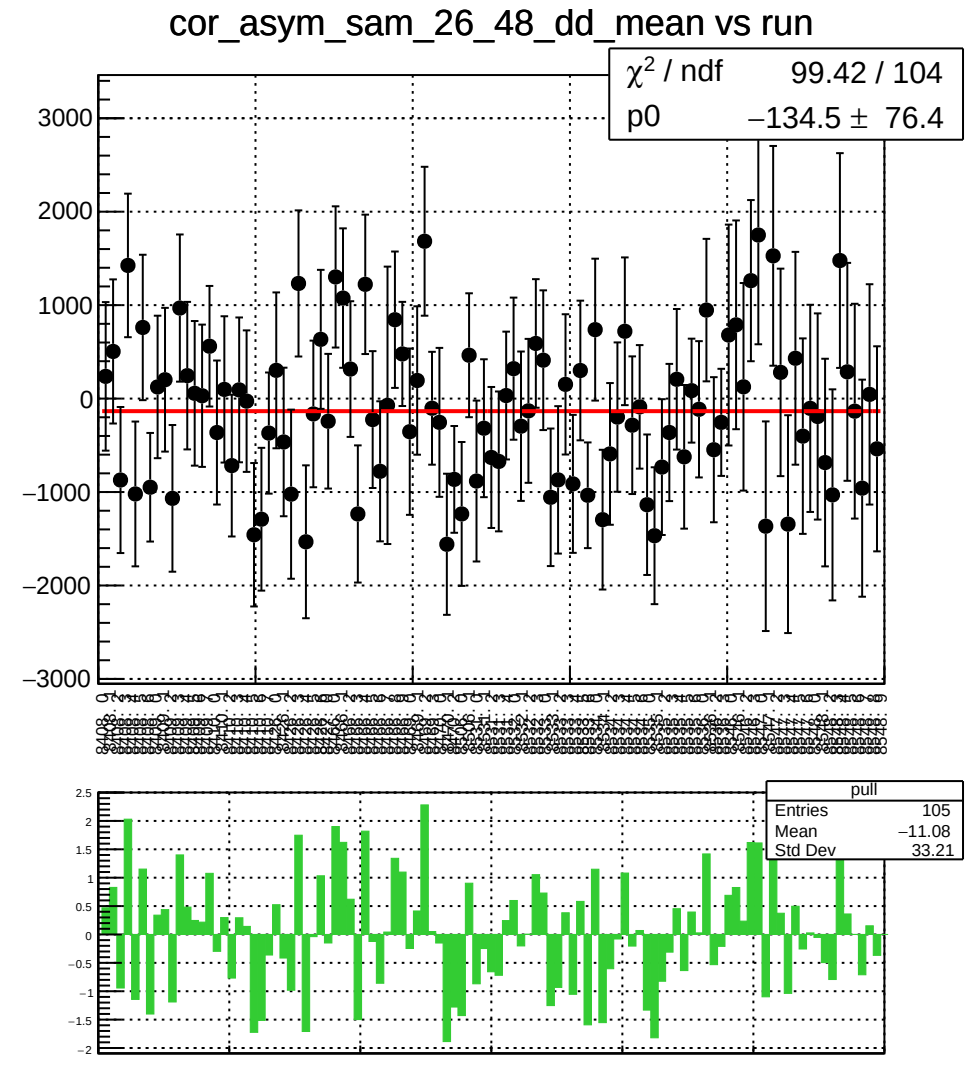

pull1D
Entries 105
Mean 0.01588
Std Dev 0.9729
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

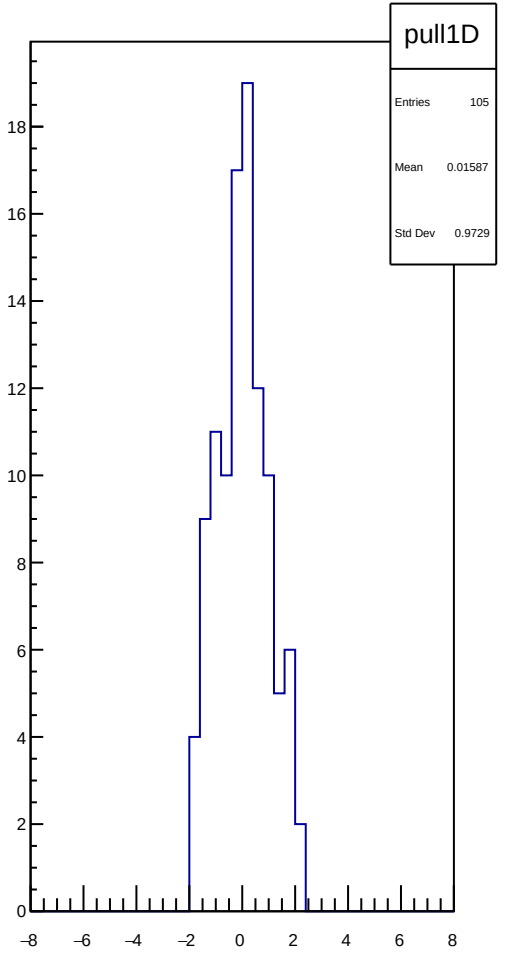

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 4.576e+04 / 104
p0 76.4 ± 0.05402
140
130
120
110
100
90
80
70

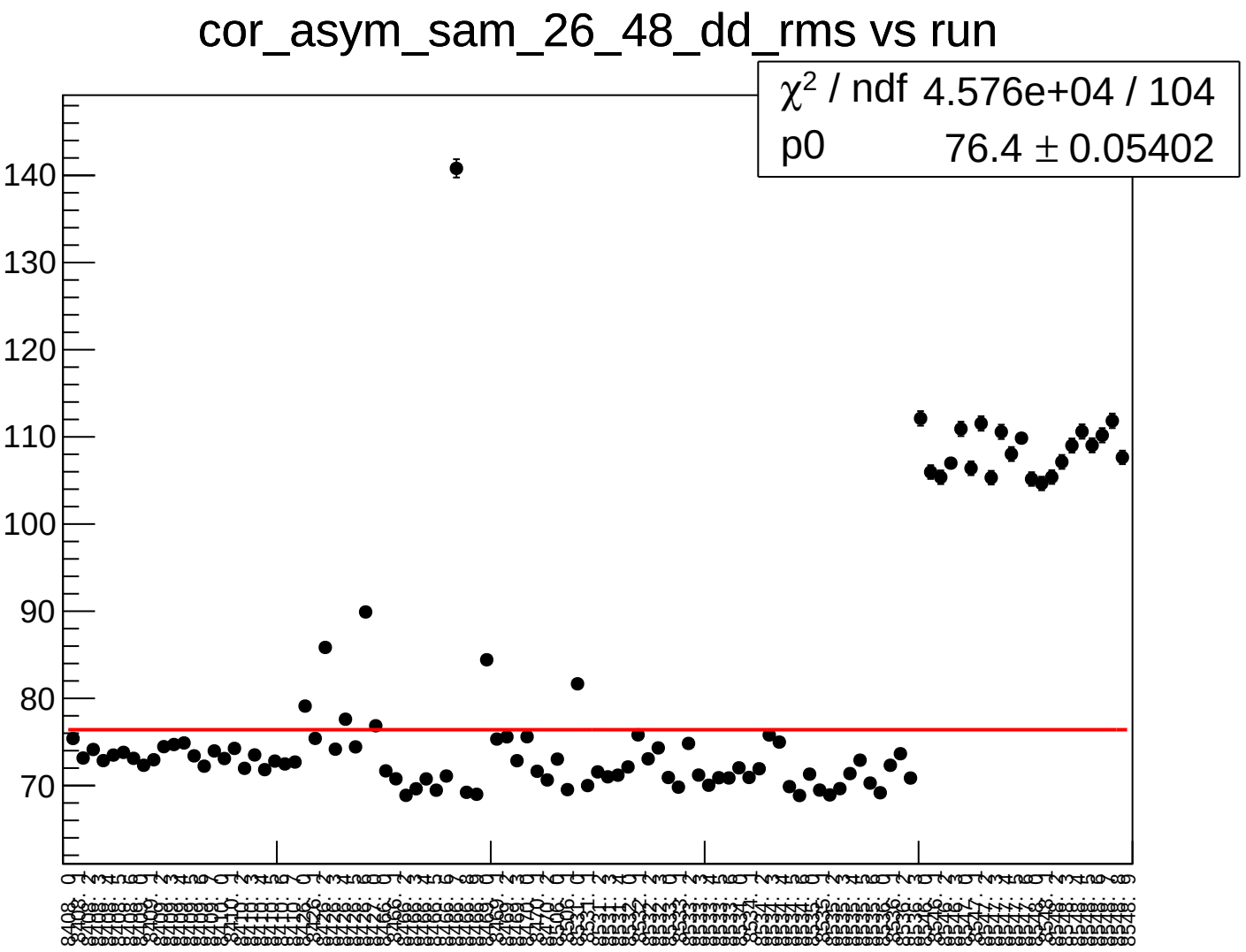

asym_sam_26_48_dd_reg_correction_mean vs run
χ² / ndf 124.1 / 104
p0 2413 ± 602.9
30000
20000
10000
0
−10000
−20000
pull
Entries 105
Mean 92.23
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

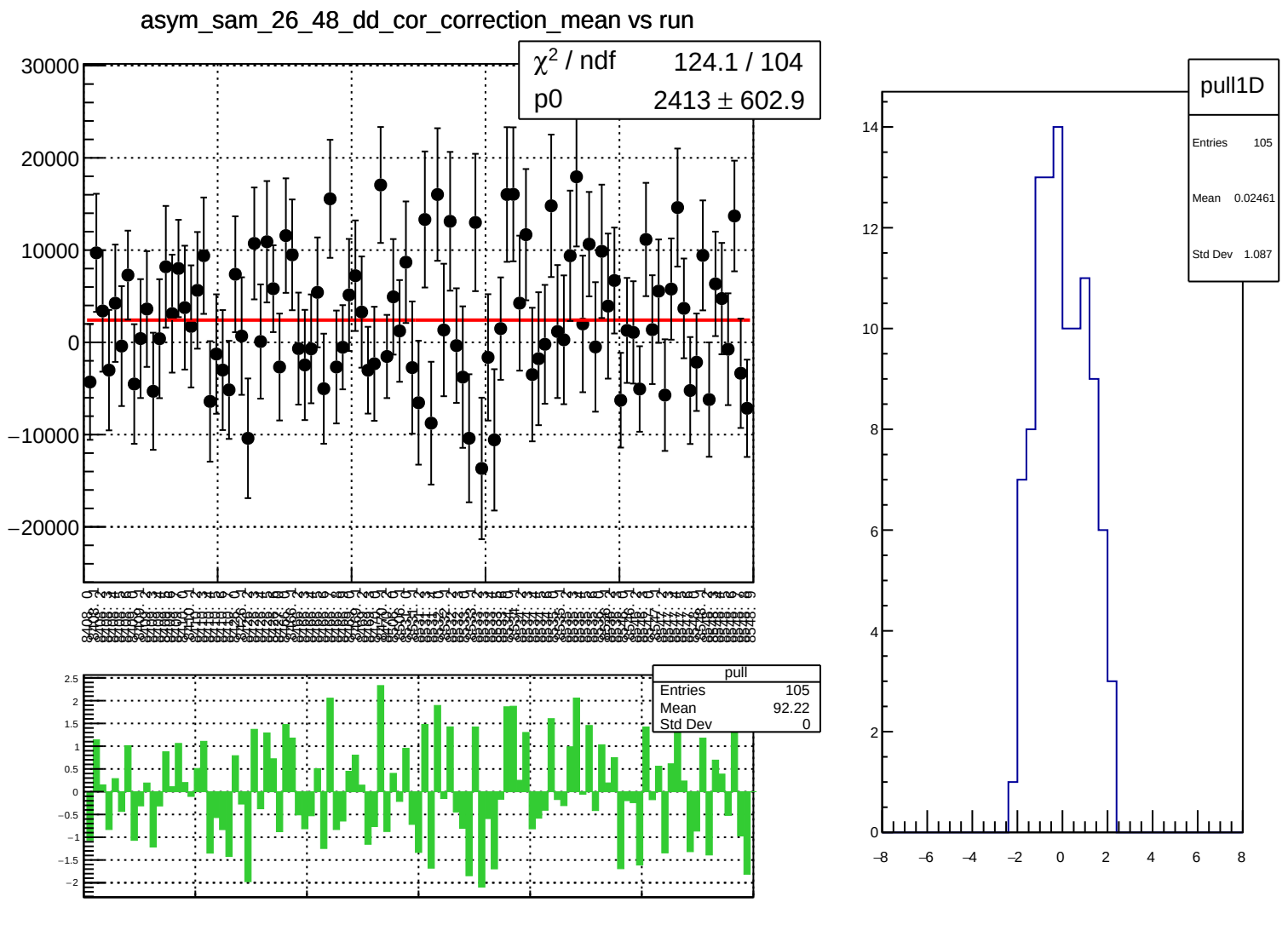

pull1D
Entries 105
Mean 0.02461
Std Dev 1.087
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

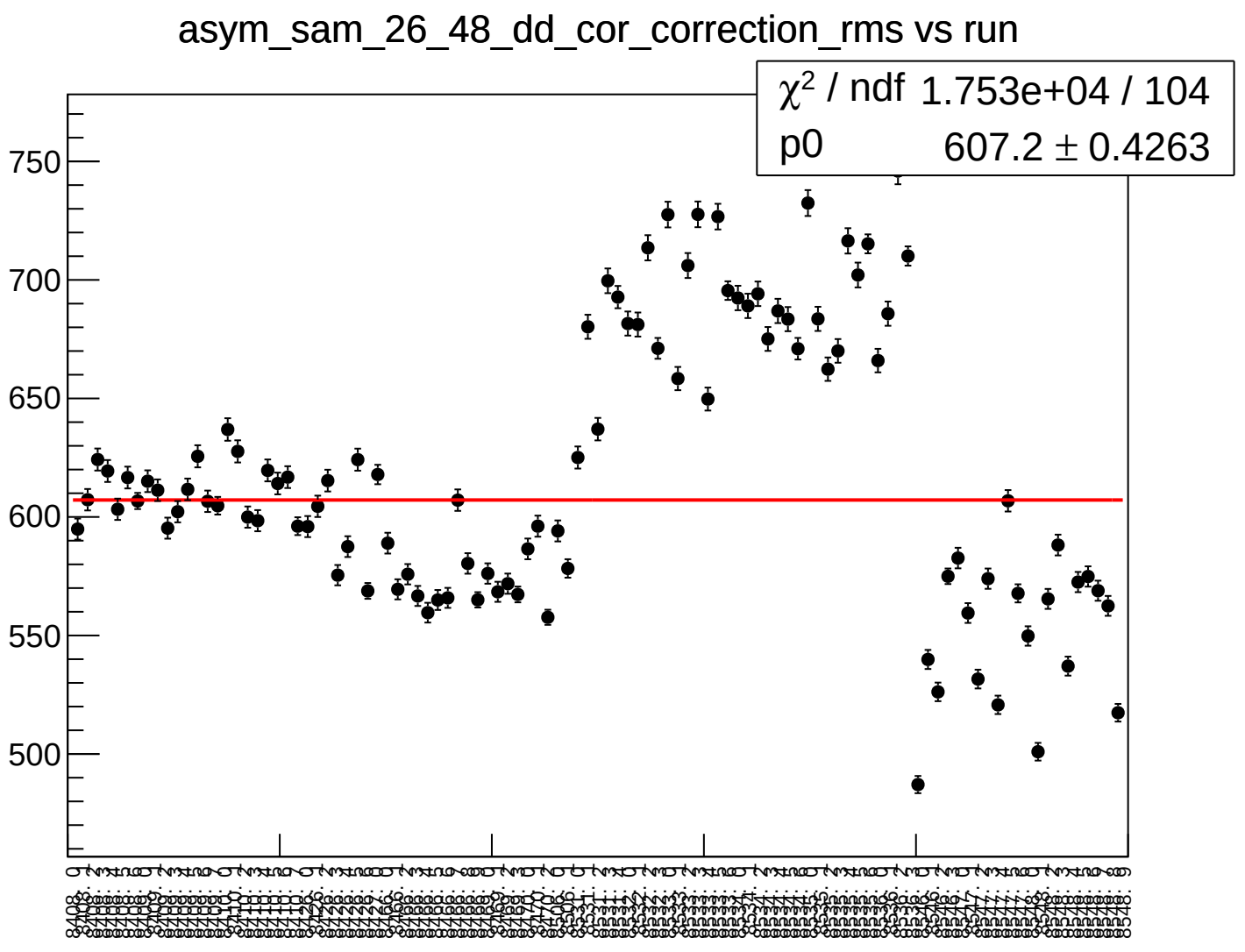

asym_sam_26_48_dd_reg_correction_rms vs run
χ² / ndf 1.753e+04 / 104
p0 607.2 ± 0.4263
750
700
650
600
550
500

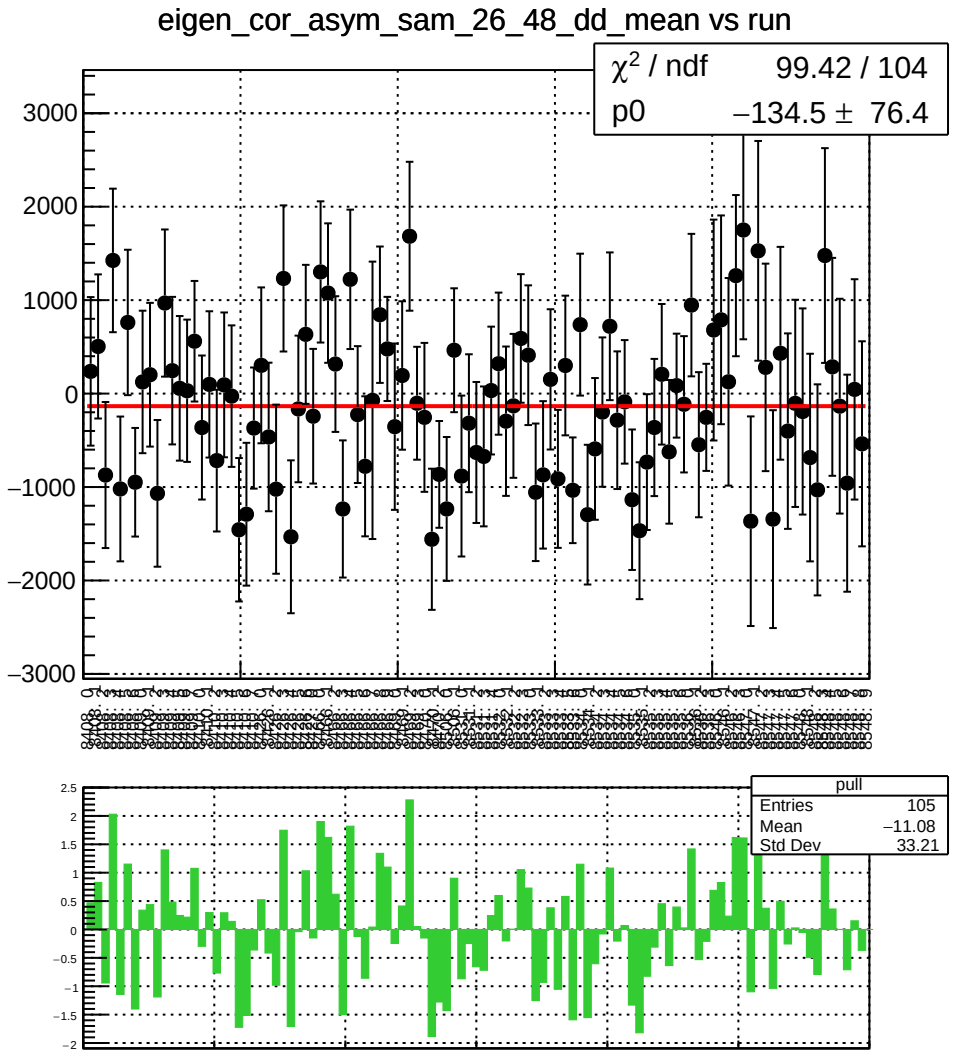

cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 99.42 / 104
p0 −134.5 ± 76.4
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 105
Mean −11.08
Std Dev 33.21
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

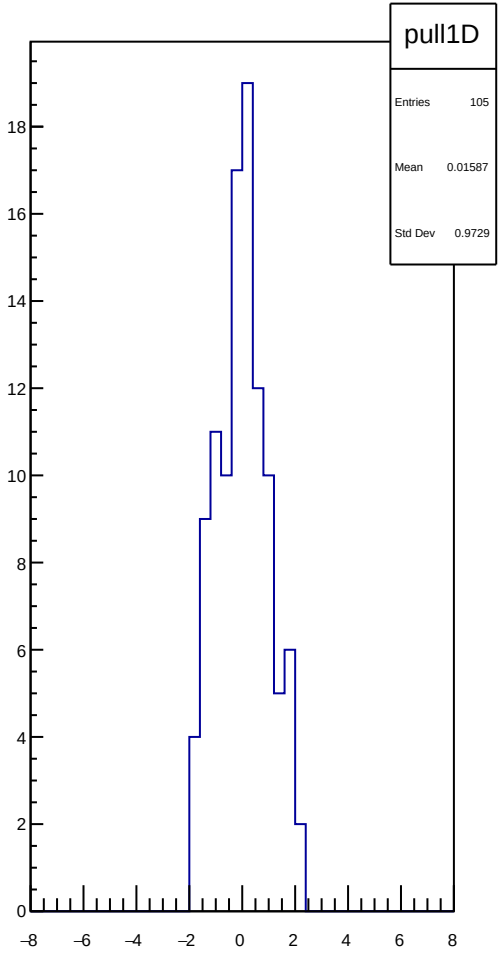

pull1D
Entries 105
Mean 0.01587
Std Dev 0.9729
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

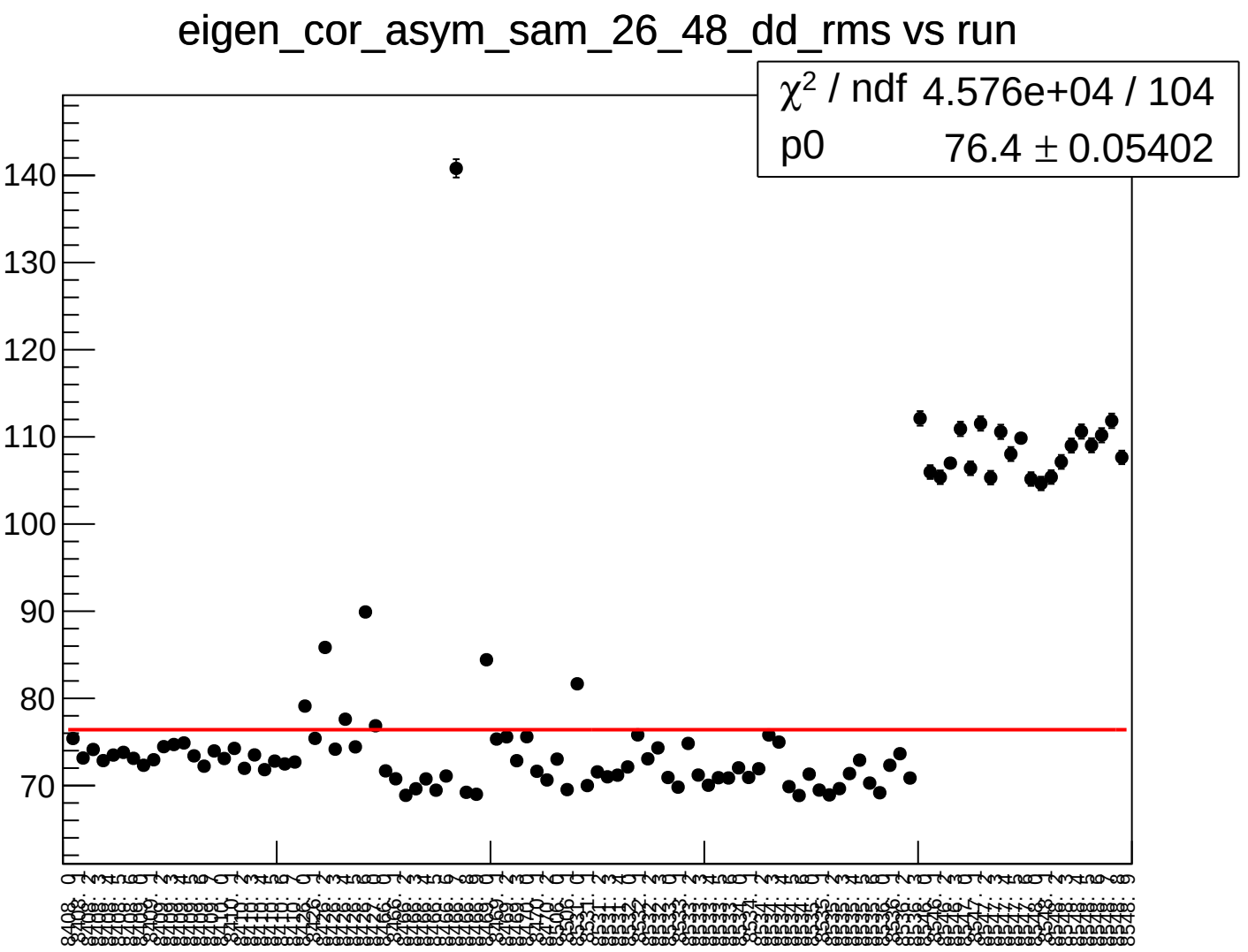

cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 4.576e+04 / 104
p0 76.4 ± 0.05402
140
130
120
110
100
90
80
70

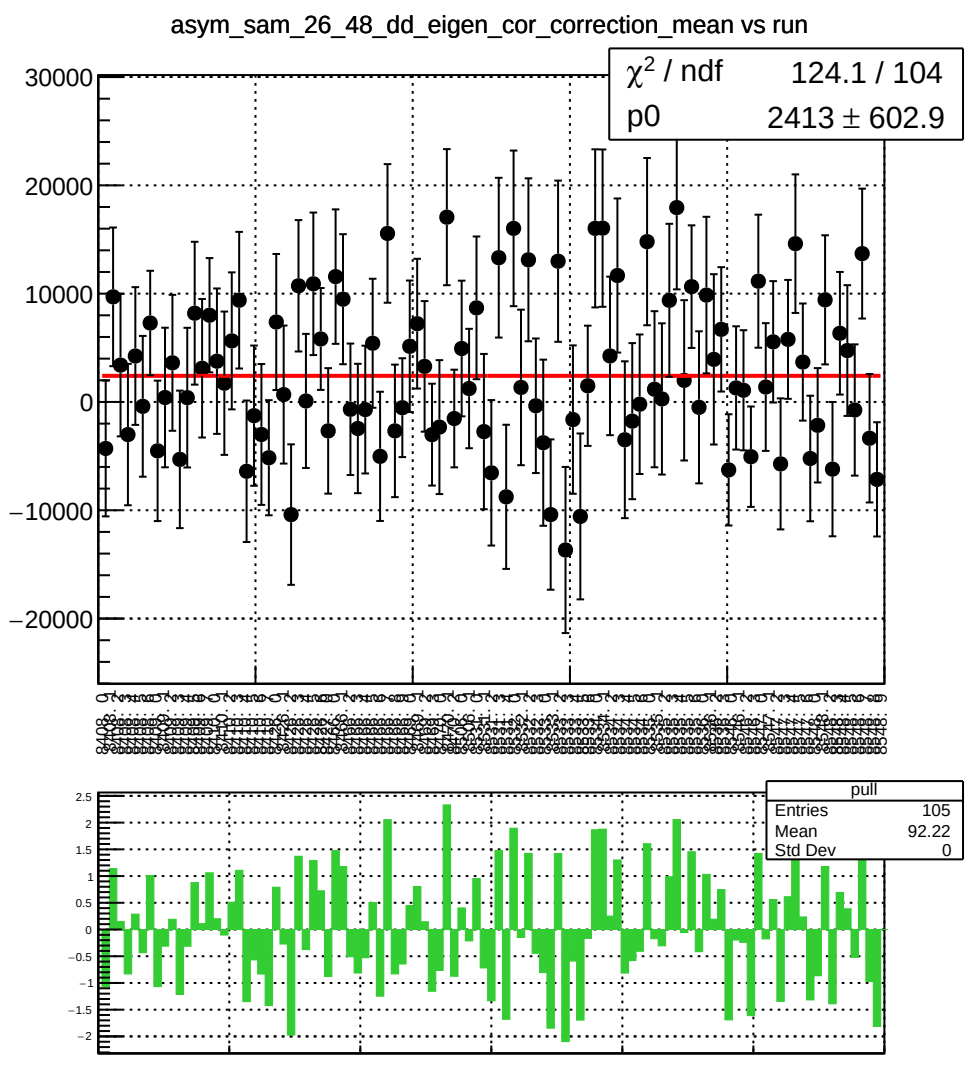

asym_sam_26_48_dd_cor_correction_mean vs run
χ² / ndf 124.1 / 104
p0 2413 ± 602.9
30000
20000
10000
0
−10000
−20000
pull
Entries 105
Mean 92.22
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 105
Mean 0.02461
Std Dev 1.087
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

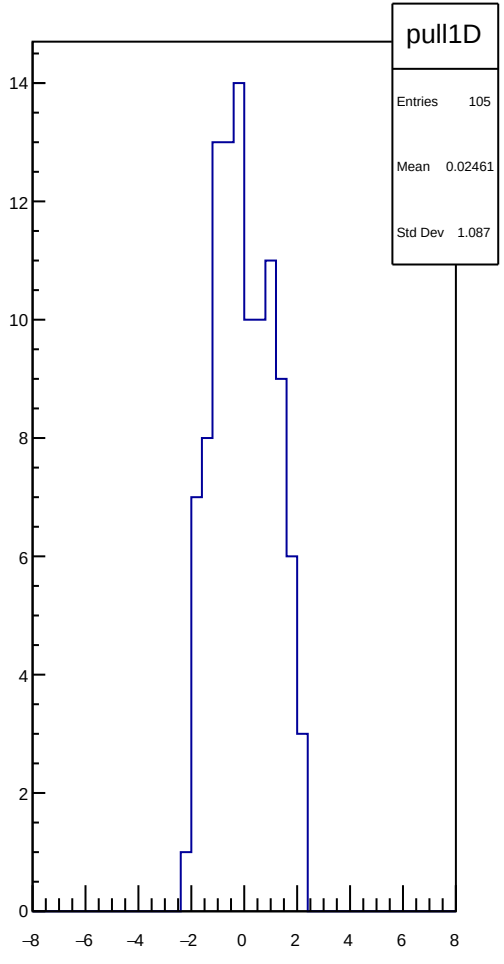

asym_sam_26_48_dd_cor_correction_rms vs run
χ² / ndf 1.753e+04 / 104
p0 607.2 ± 0.4263
750
700
650
600
550
500

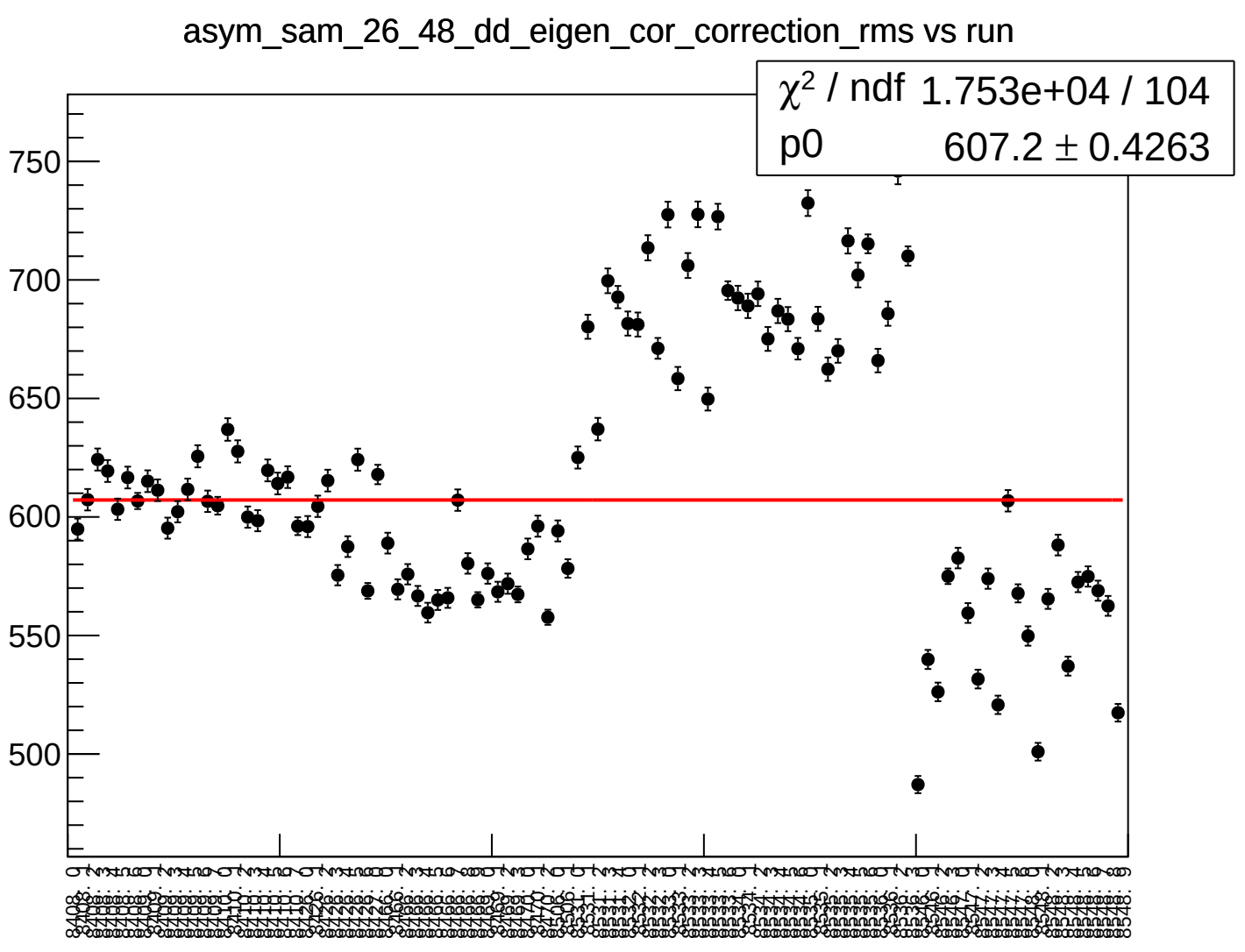

eigen_cor_asym_sam_26_48_dd_mean vs run
χ² / ndf 99.42 / 104
p0 −134.5 ± 76.4
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 105
Mean −11.08
Std Dev 33.21
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

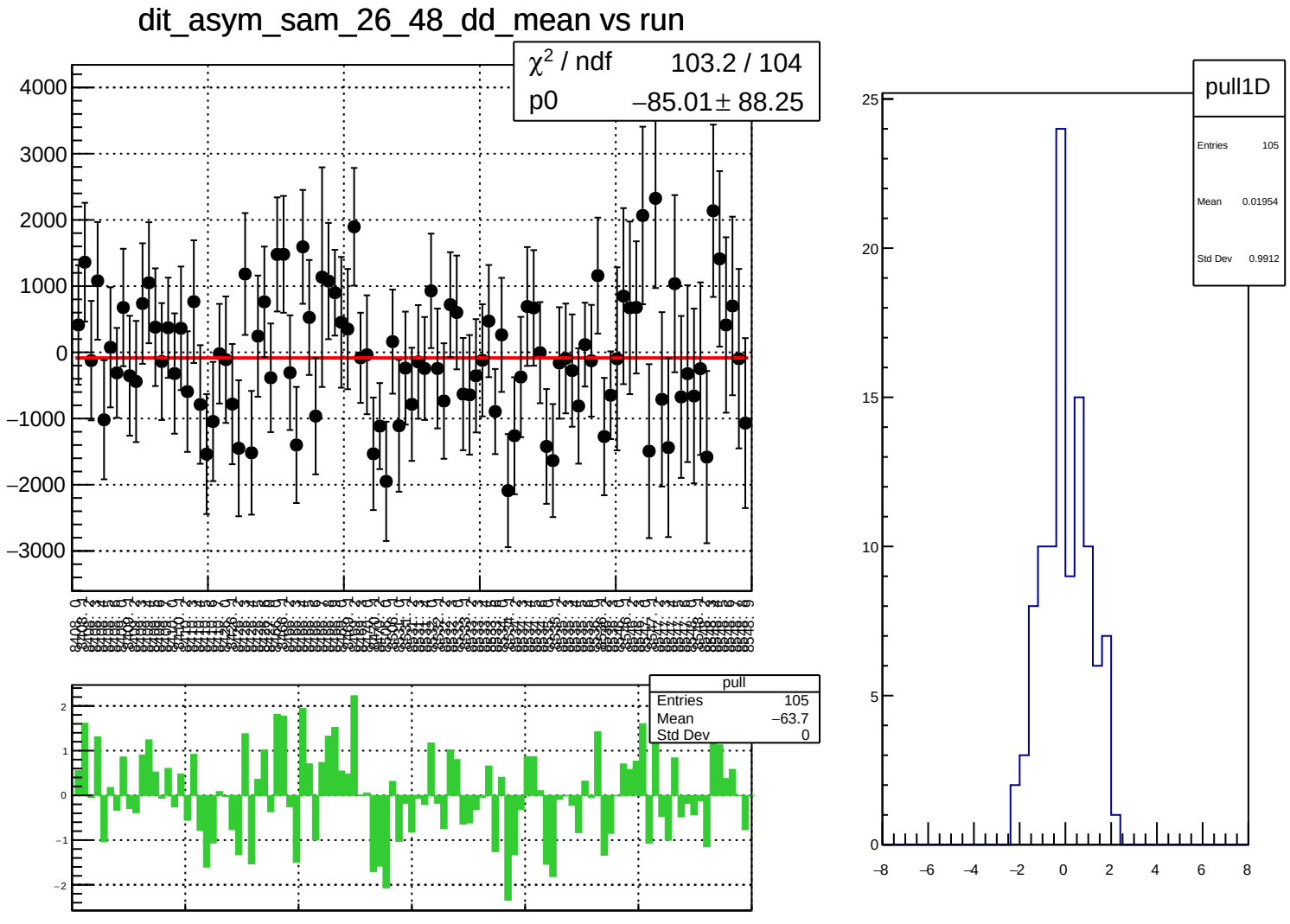

pull1D
Entries 105
Mean 0.01587
Std Dev 0.9729
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

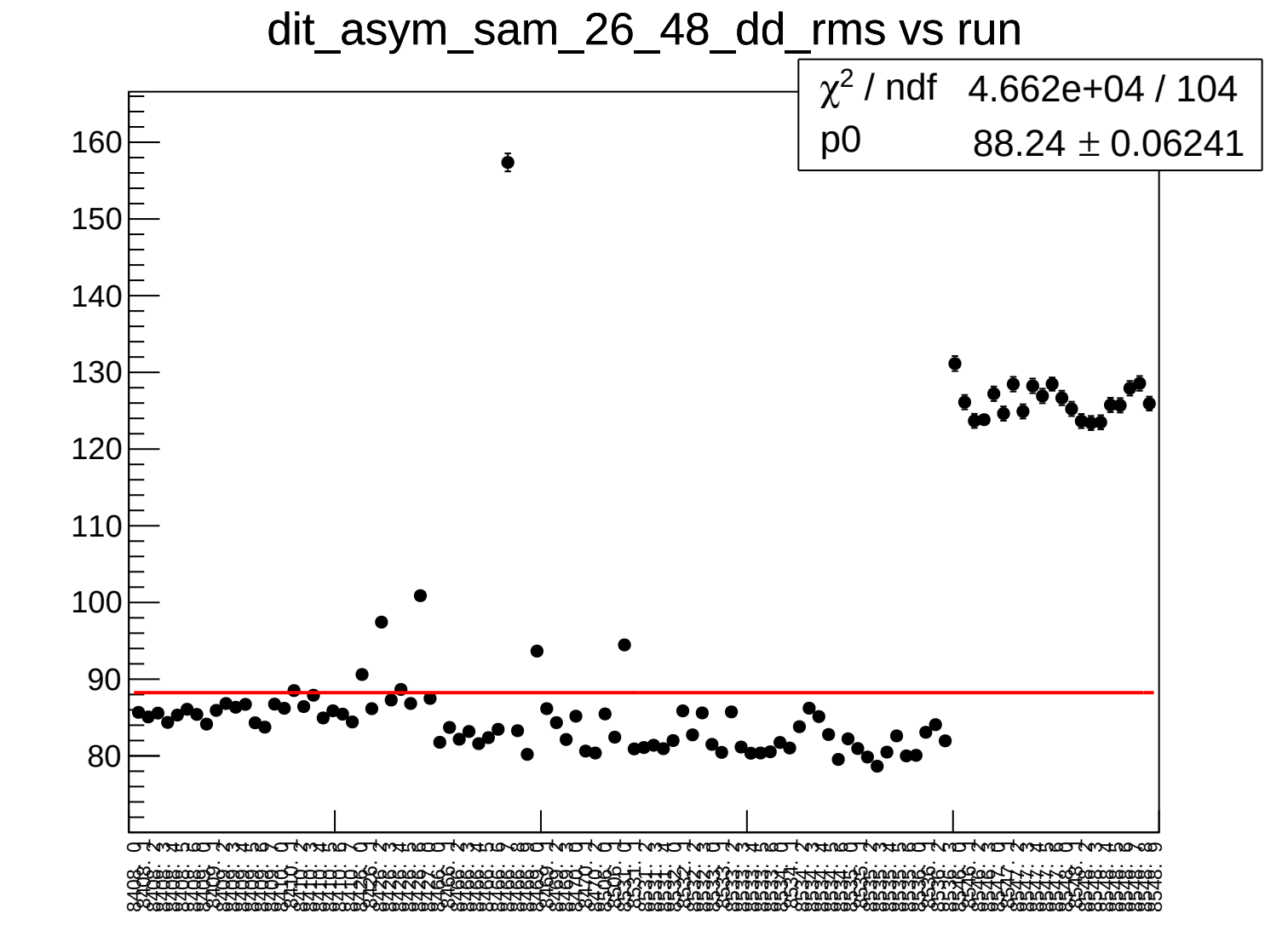

eigen_cor_asym_sam_26_48_dd_rms vs run
χ² / ndf 4.576e+04 / 104
p0 76.4 ± 0.05402
140
130
120
110
100
90
80
70

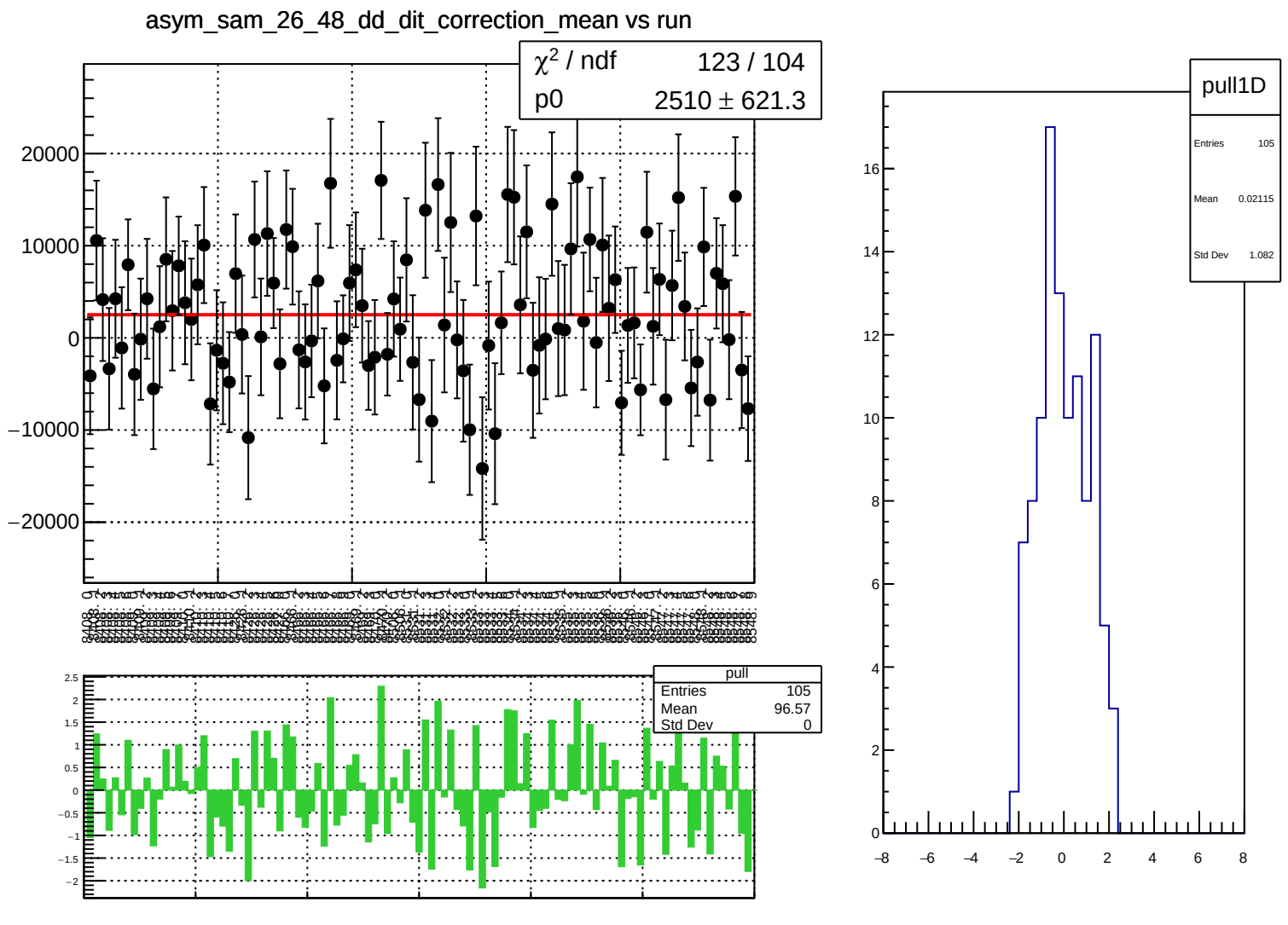

asym_sam_26_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 124.1 / 104
p0 2413 ± 602.9
30000
20000
10000
0
−10000
−20000
pull
Entries 105
Mean 92.22
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

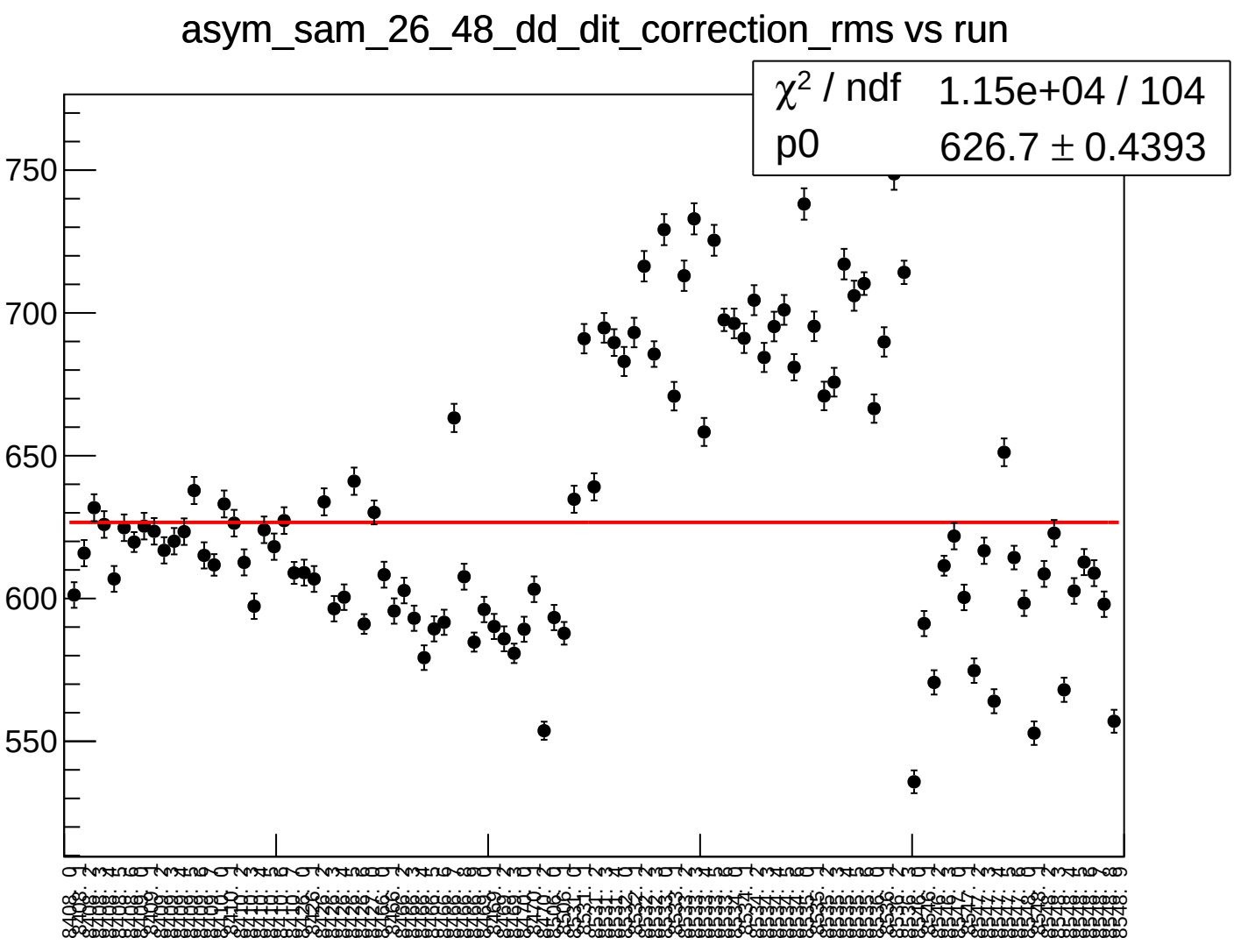

pull1D
Entries 105
Mean 0.02461
Std Dev 1.087
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

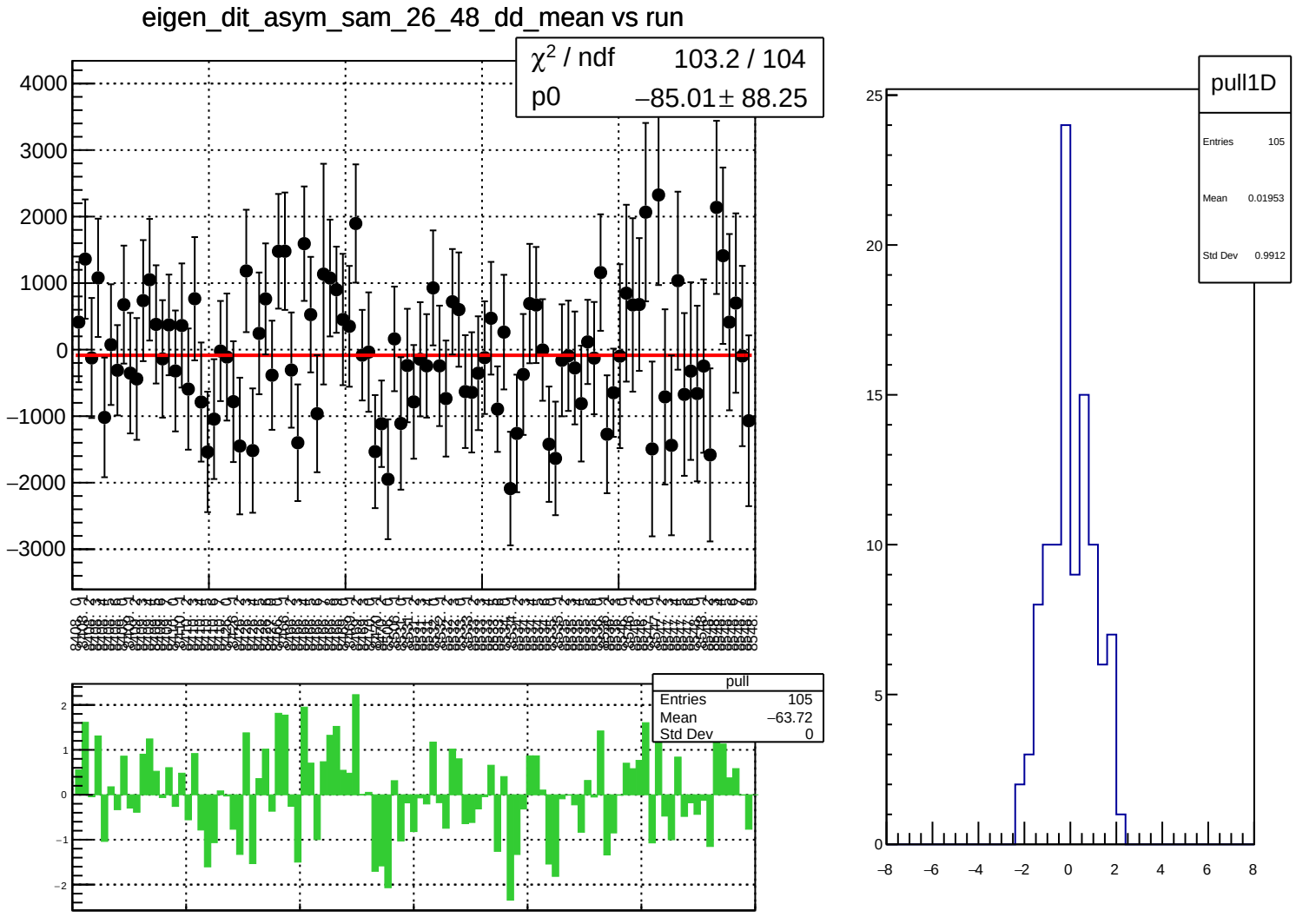

asym_sam_26_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.753e+04 / 104
p0 607.2 ± 0.4263
750
700
650
600
550
500

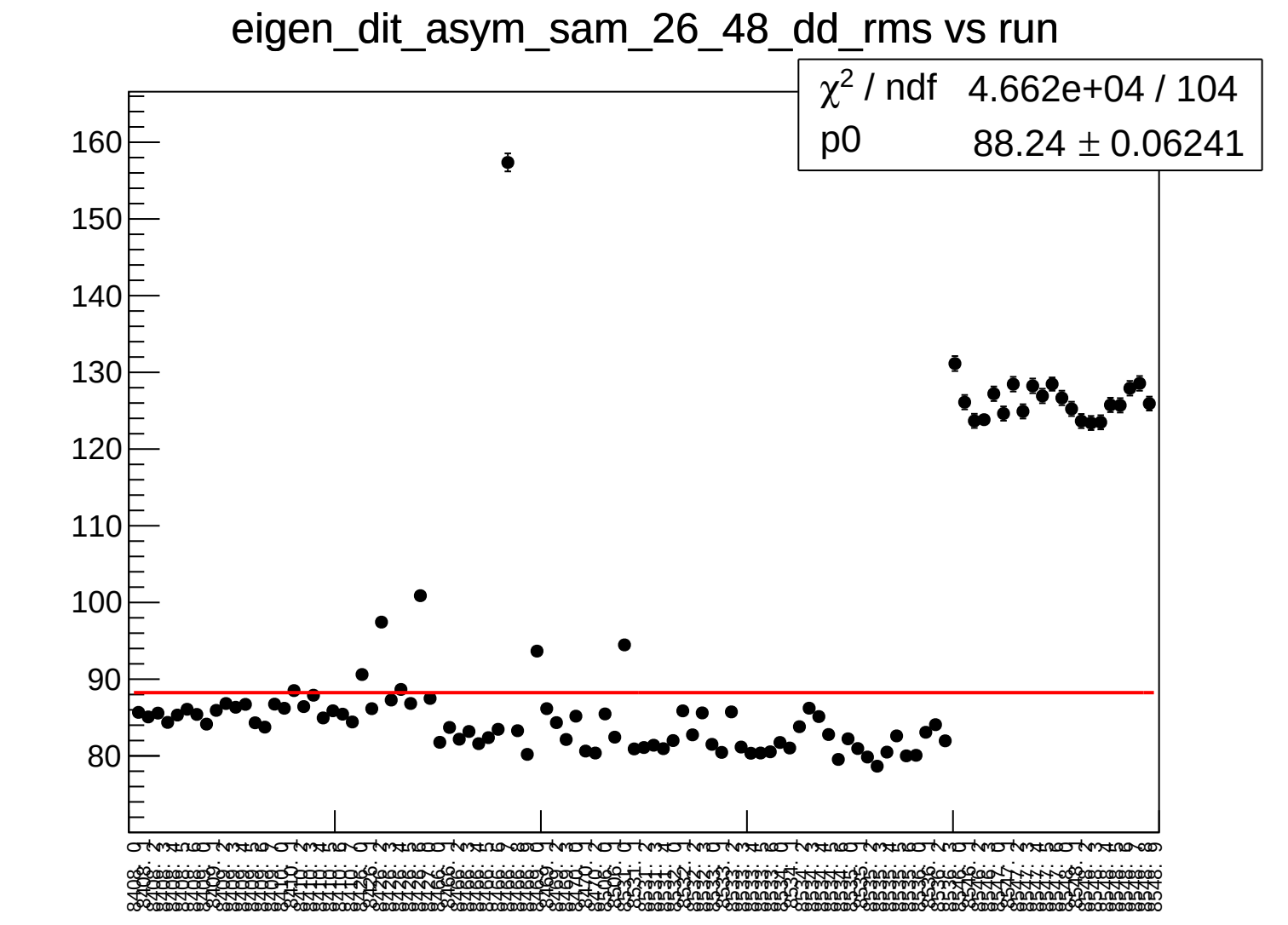

dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 103.2 / 104
p0 −85.01 ± 88.25
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 105
Mean −63.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.01954
Std Dev 0.9912
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

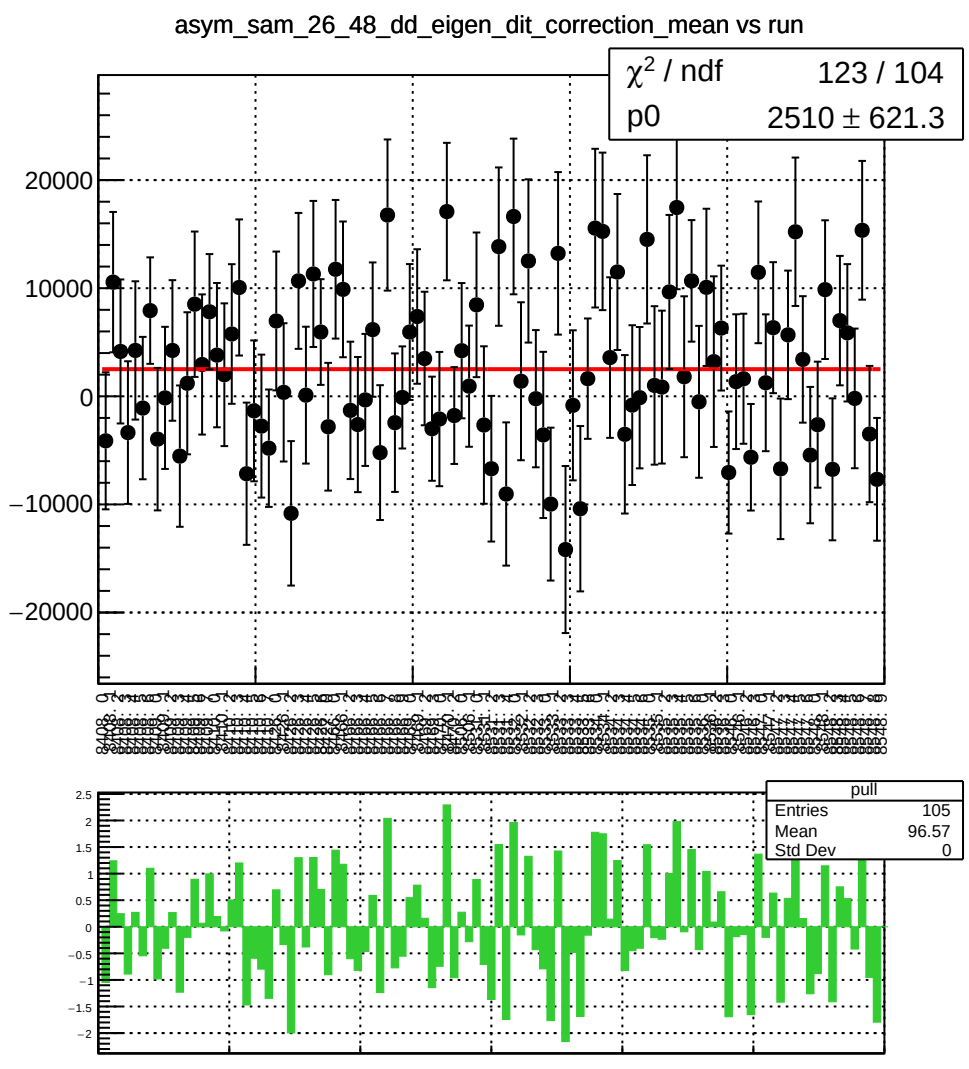

dit_asym_sam_26_48_dd_rms vs run
χ^2 / ndf 4.662e+04 / 104
p0 88.24 ± 0.06241
160
150
140
130
120
110
100
90
80

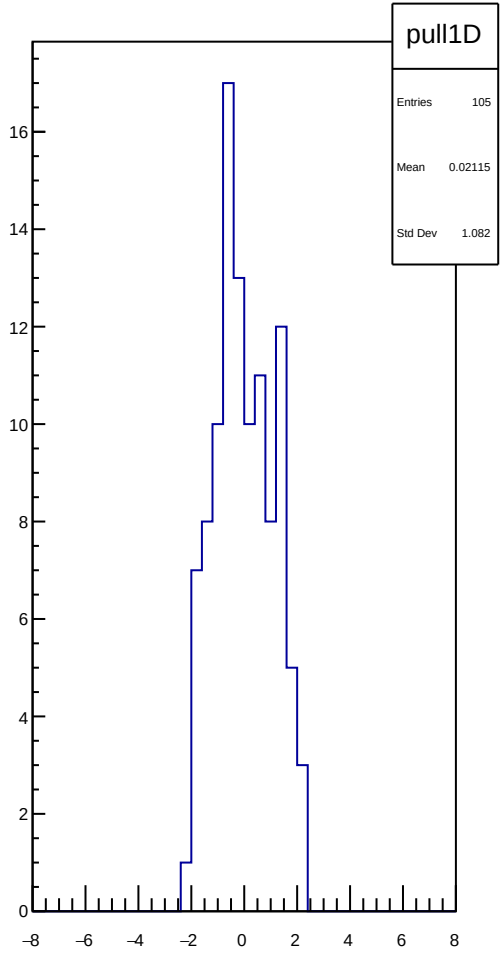

asym_sam_26_48_dd_dit_correction_mean vs run
χ² / ndf 123 / 104
p0 2510 ± 621.3
20000
10000
0
−10000
−20000
pull
Entries 105
Mean 96.57
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 105
Mean 0.02115
Std Dev 1.082
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

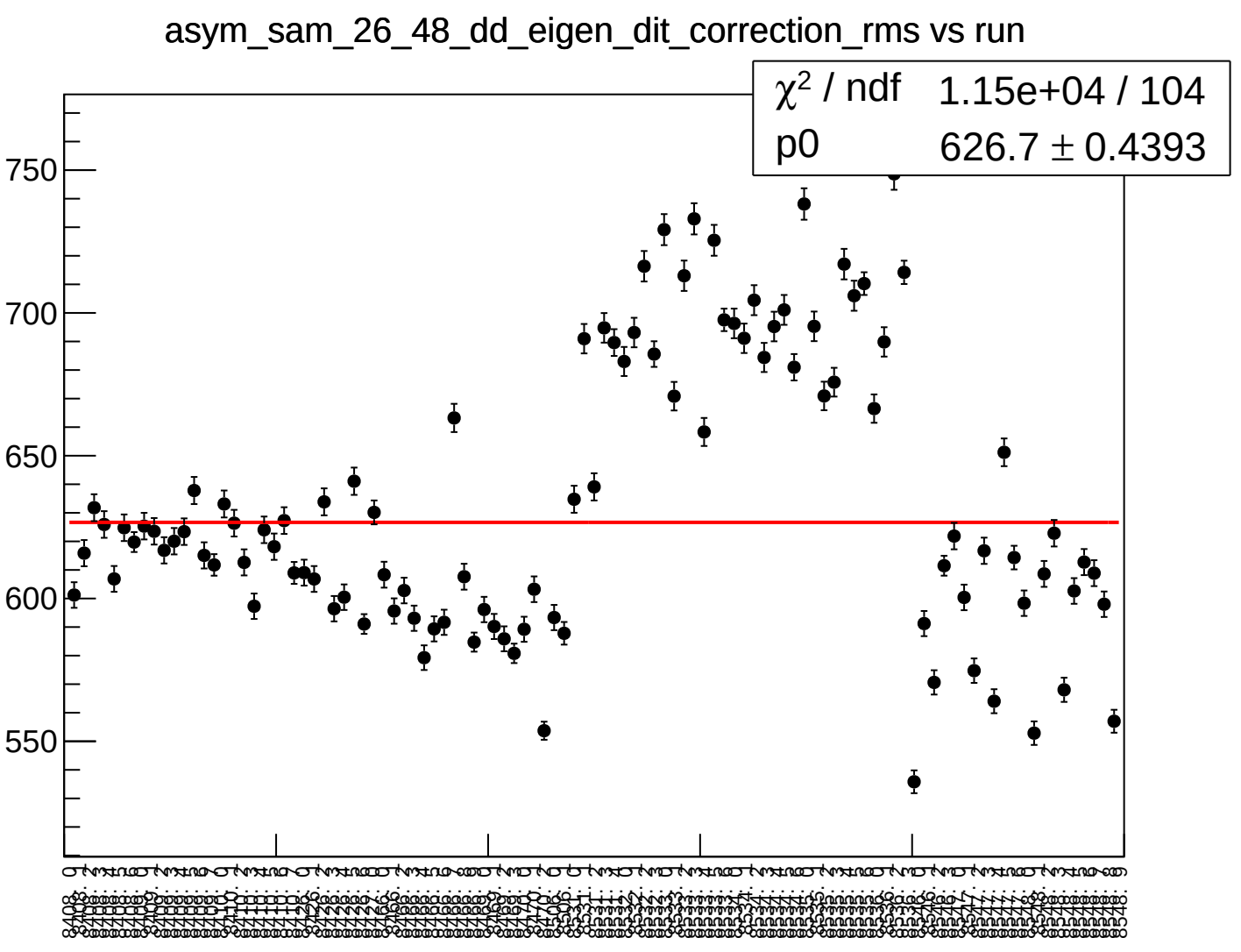

asym_sam_26_48_dd_dit_correction_rms vs run
χ² / ndf 1.15e+04 / 104
p0 626.7 ± 0.4393
750
700
650
600
550

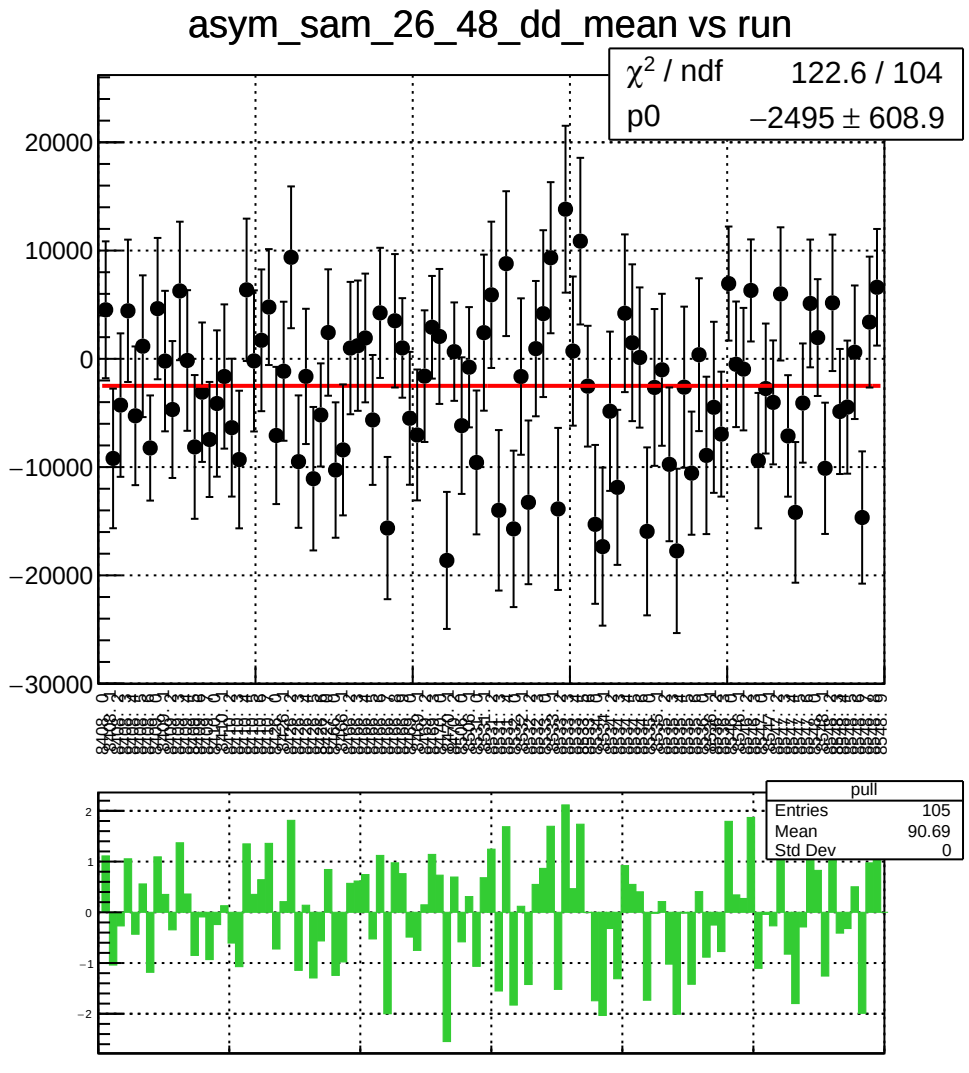

eigen_dit_asym_sam_26_48_dd_mean vs run
χ² / ndf 103.2 / 104
p0 −85.01 ± 88.25
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 105
Mean −63.72
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.01953
Std Dev 0.9912
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

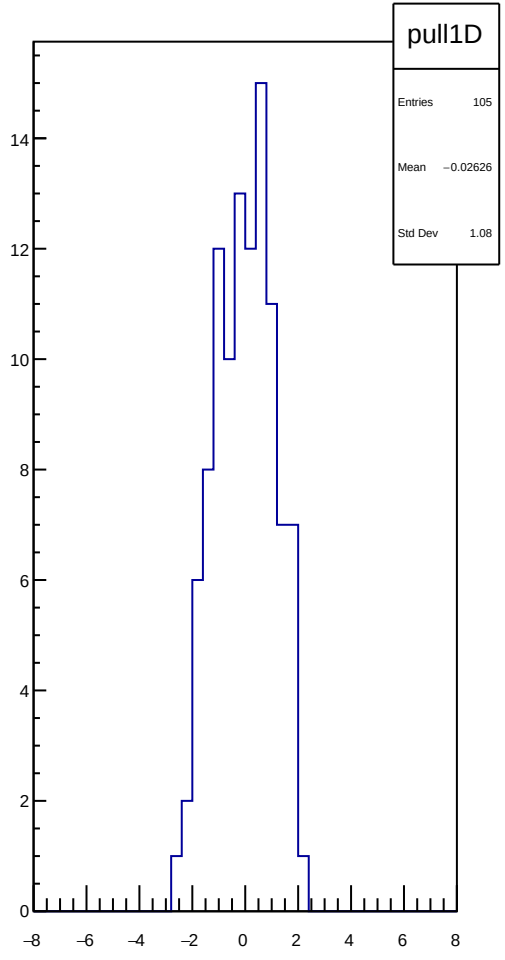

eigen_dit_asym_sam_26_48_dd_rms vs run
χ^2 / ndf 4.662e+04 / 104
p0 88.24 ± 0.06241
160
150
140
130
120
110
100
90
80

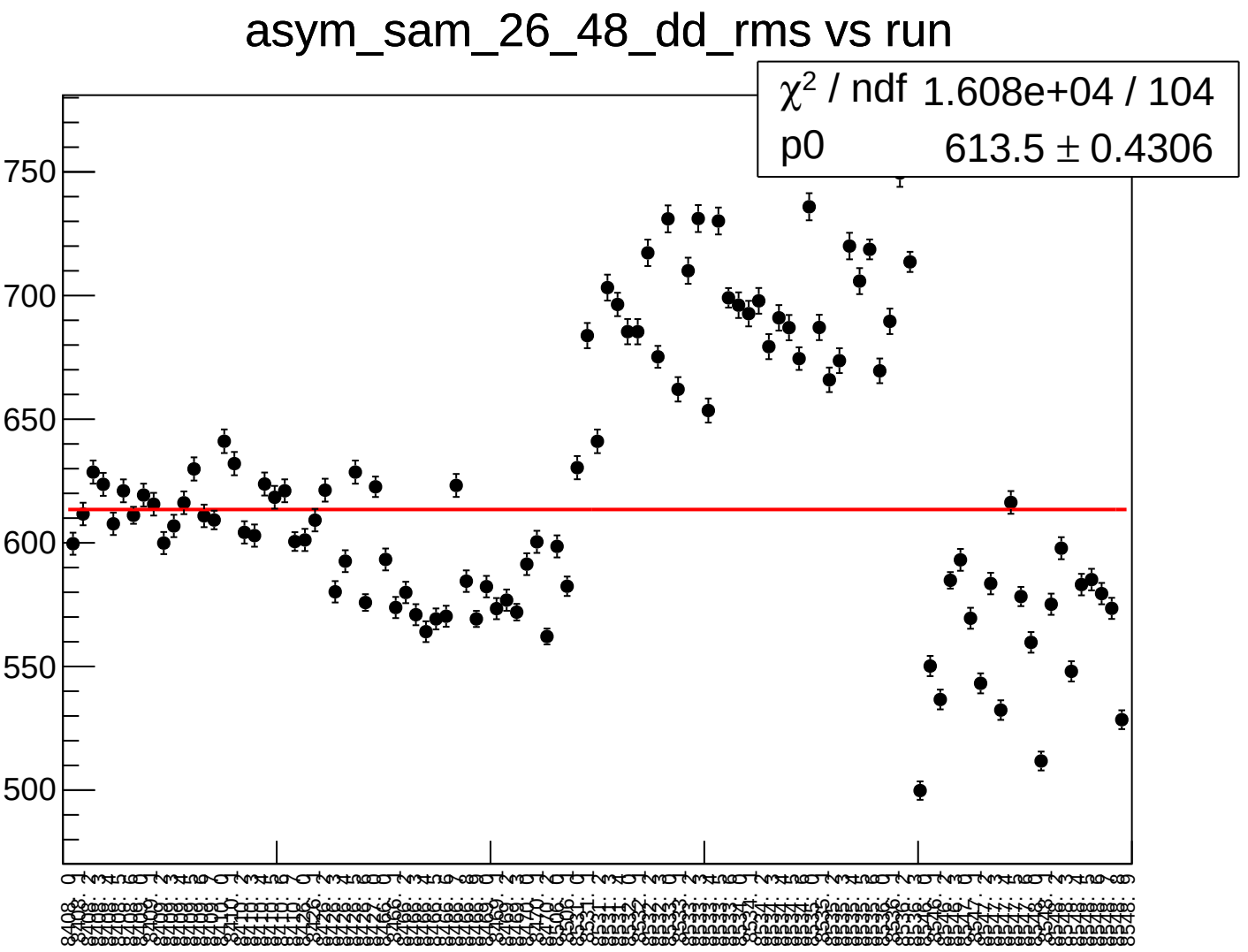

asym_sam_26_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 123 / 104
p0 2510 ± 621.3
20000
10000
0
−10000
−20000
pull
Entries 105
Mean 96.57
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

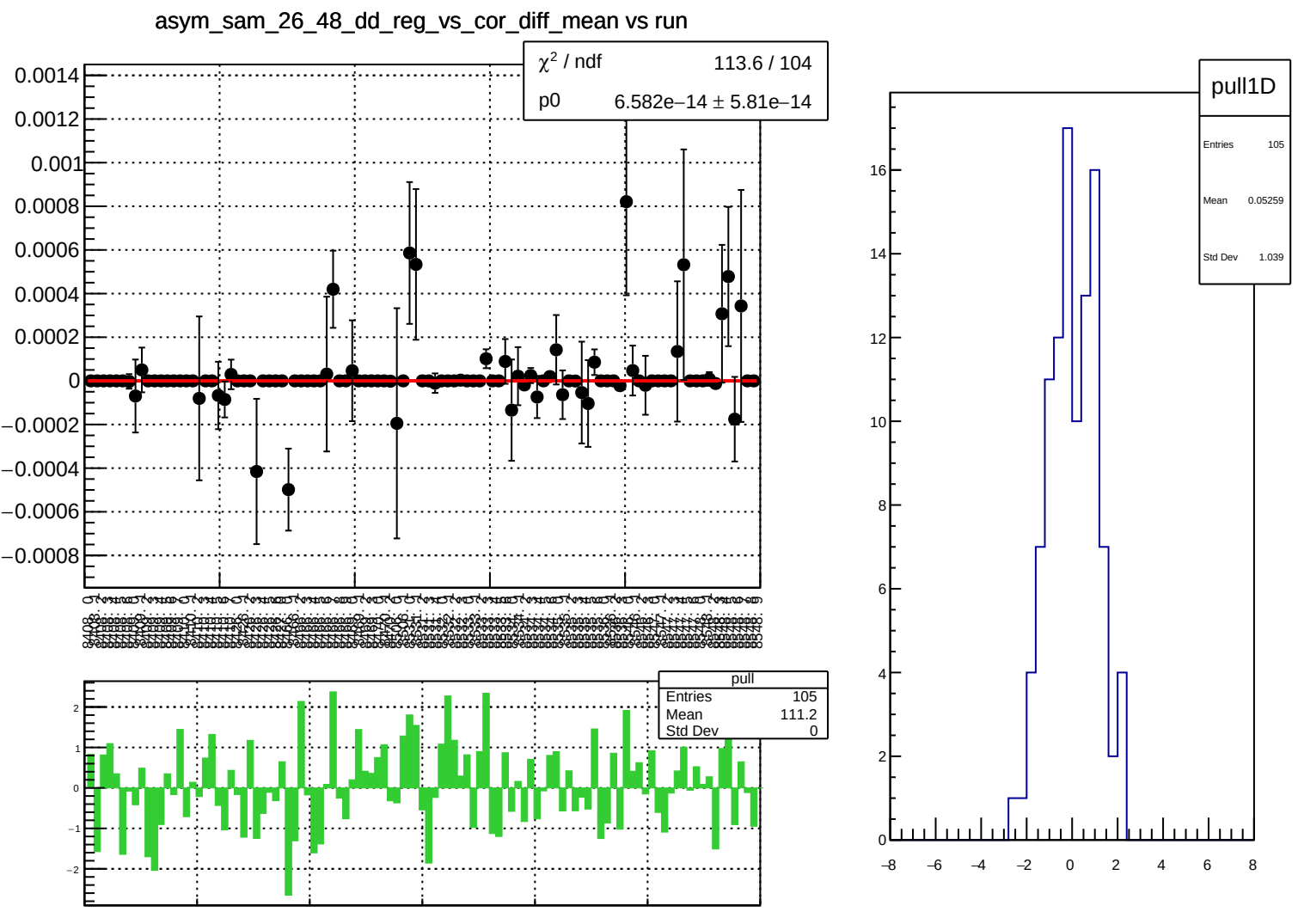

pull1D
Entries 105
Mean 0.02115
Std Dev 1.082
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

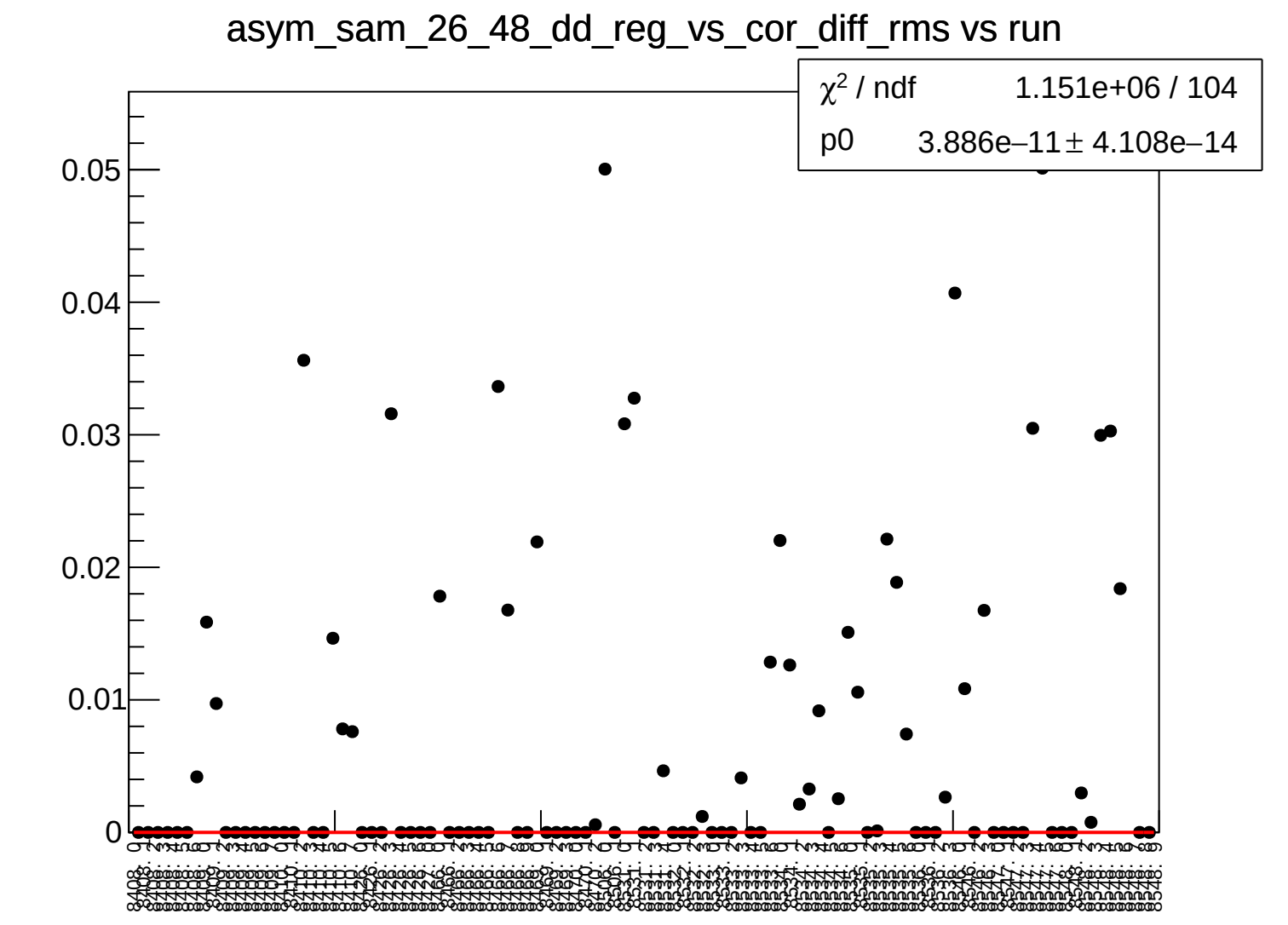

asym_sam_26_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.15e+04 / 104
p0 626.7 ± 0.4393
750
700
650
600
550

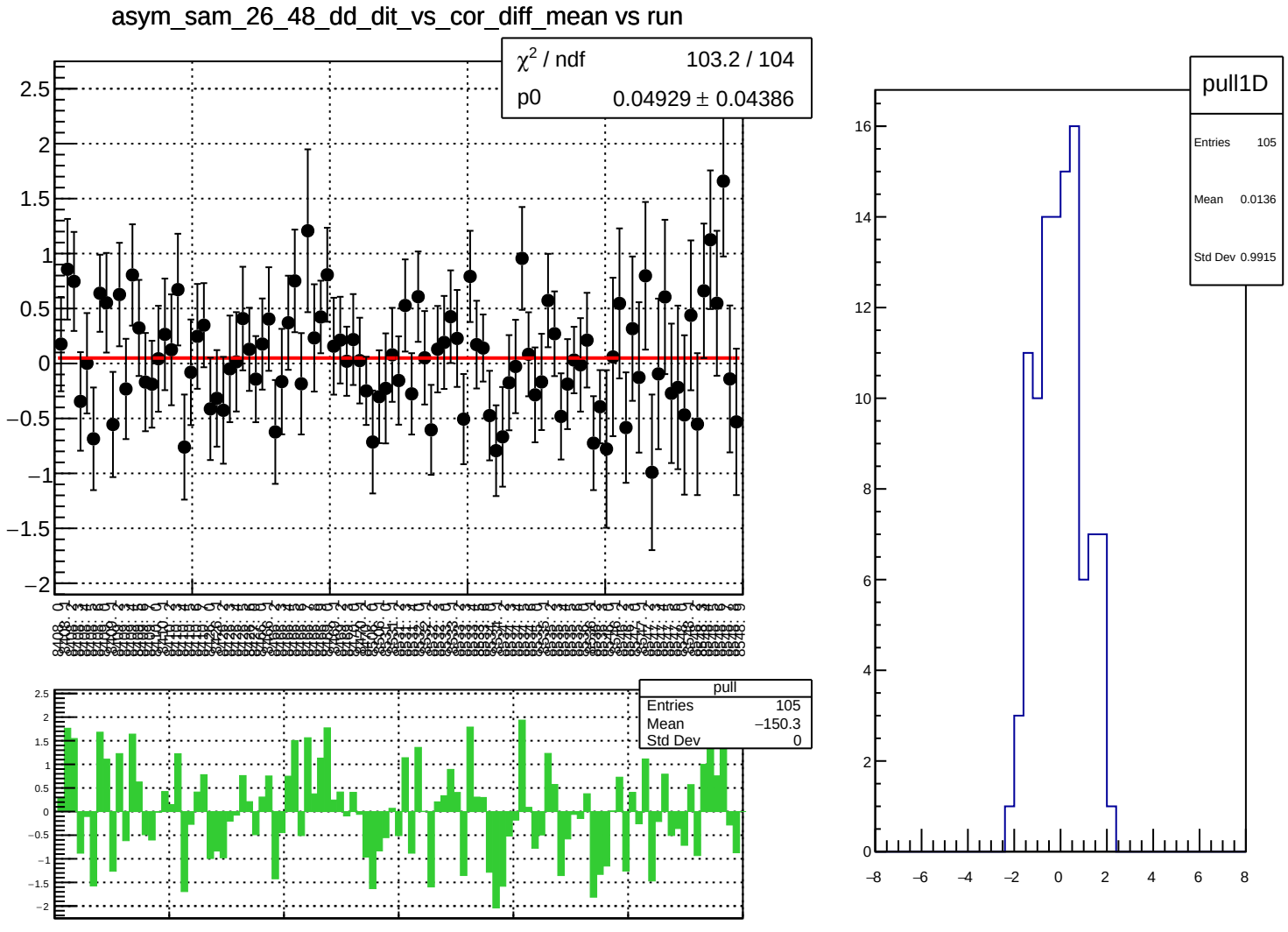

asym_sam_26_48_dd_mean vs run
χ² / ndf 122.6 / 104
p0 −2495 ± 608.9
20000
10000
0
−10000
−20000
−30000
pull
Entries 105
Mean 90.69
Std Dev 0
2
1
0
−1
−2

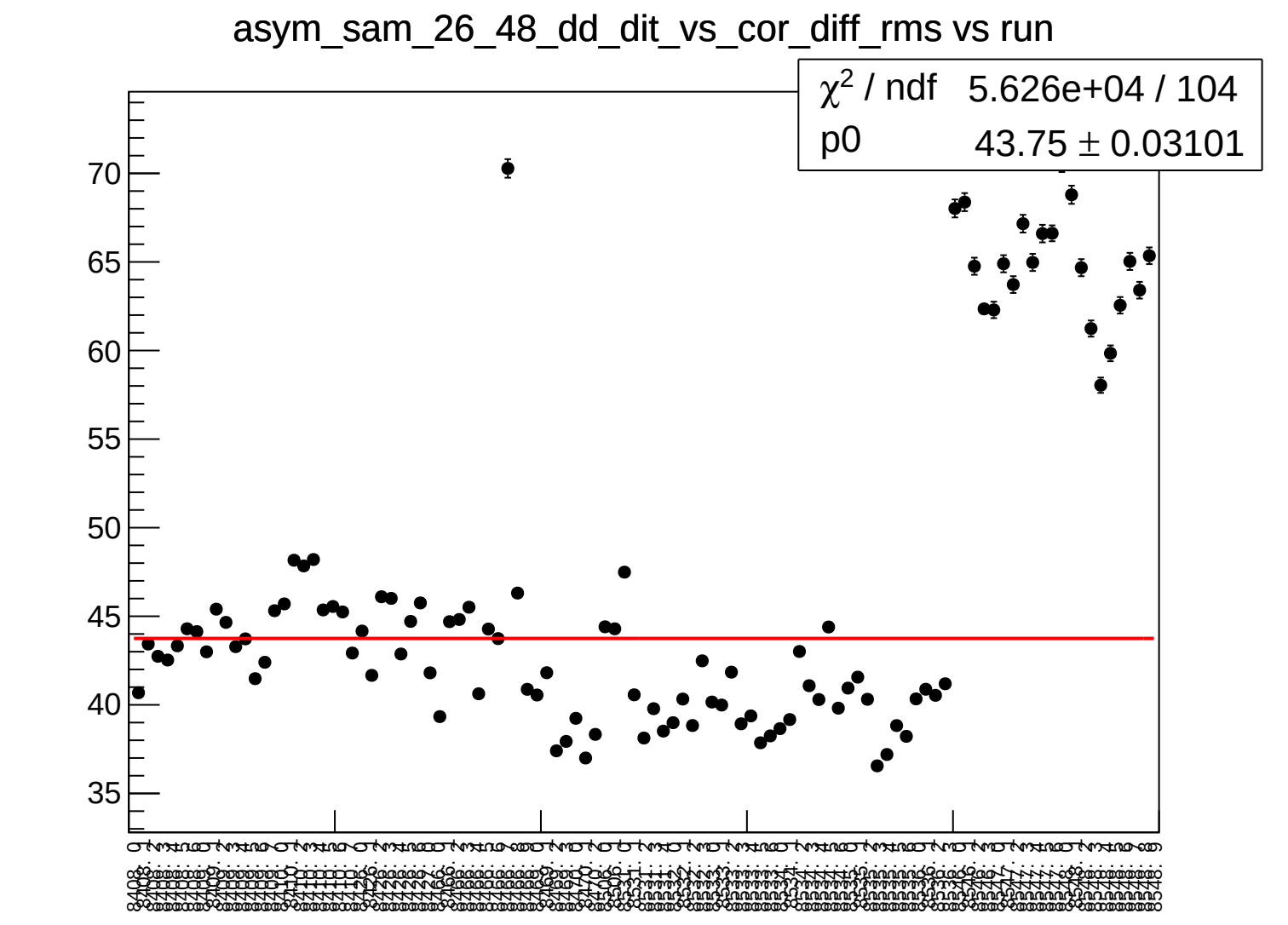

pull1D
Entries 105
Mean −0.02626
Std Dev 1.08
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

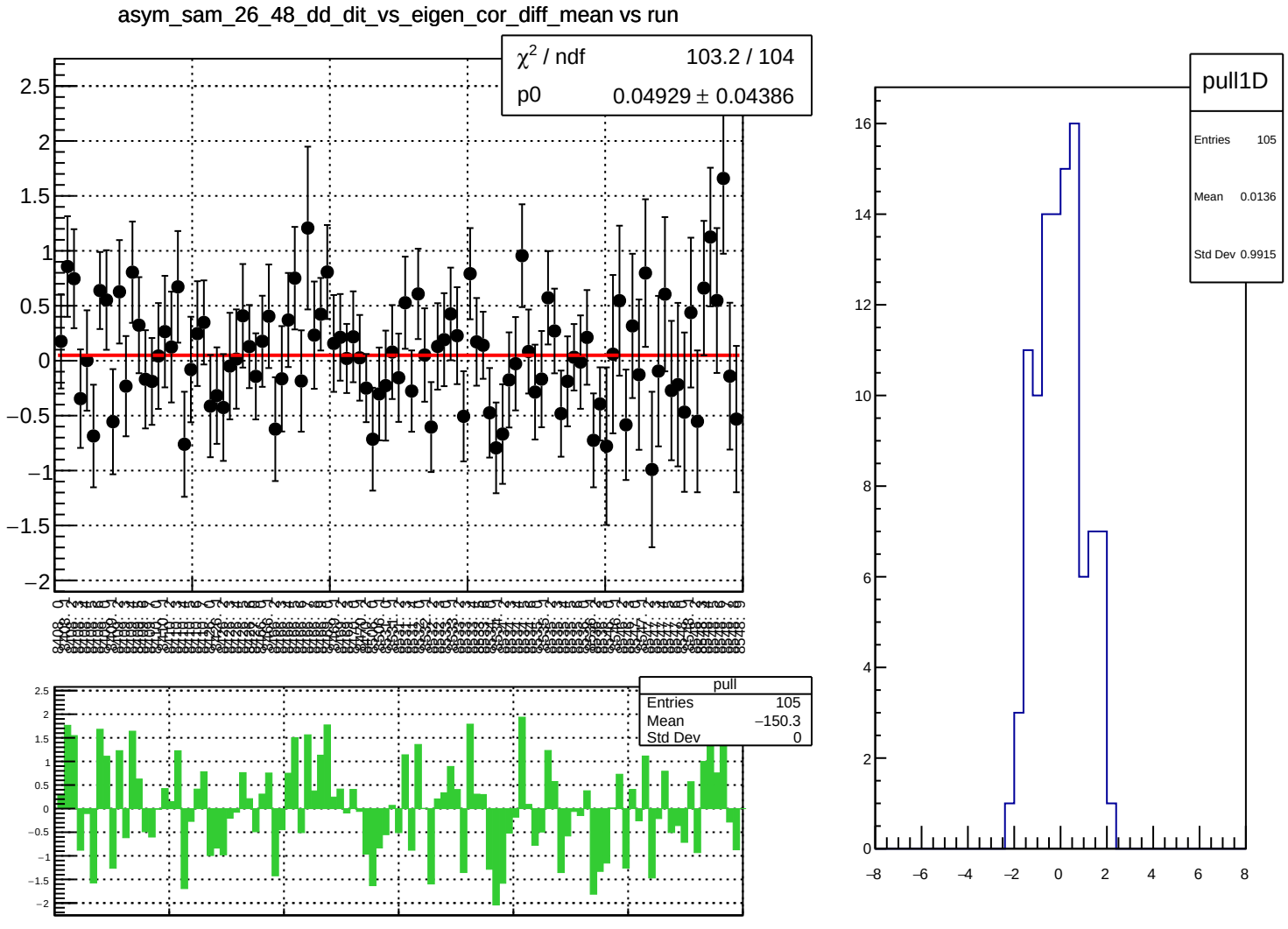

asym_sam_26_48_dd_rms vs run
χ² / ndf 1.608e+04 / 104
p0 613.5 ± 0.4306
750
700
650
600
550
500

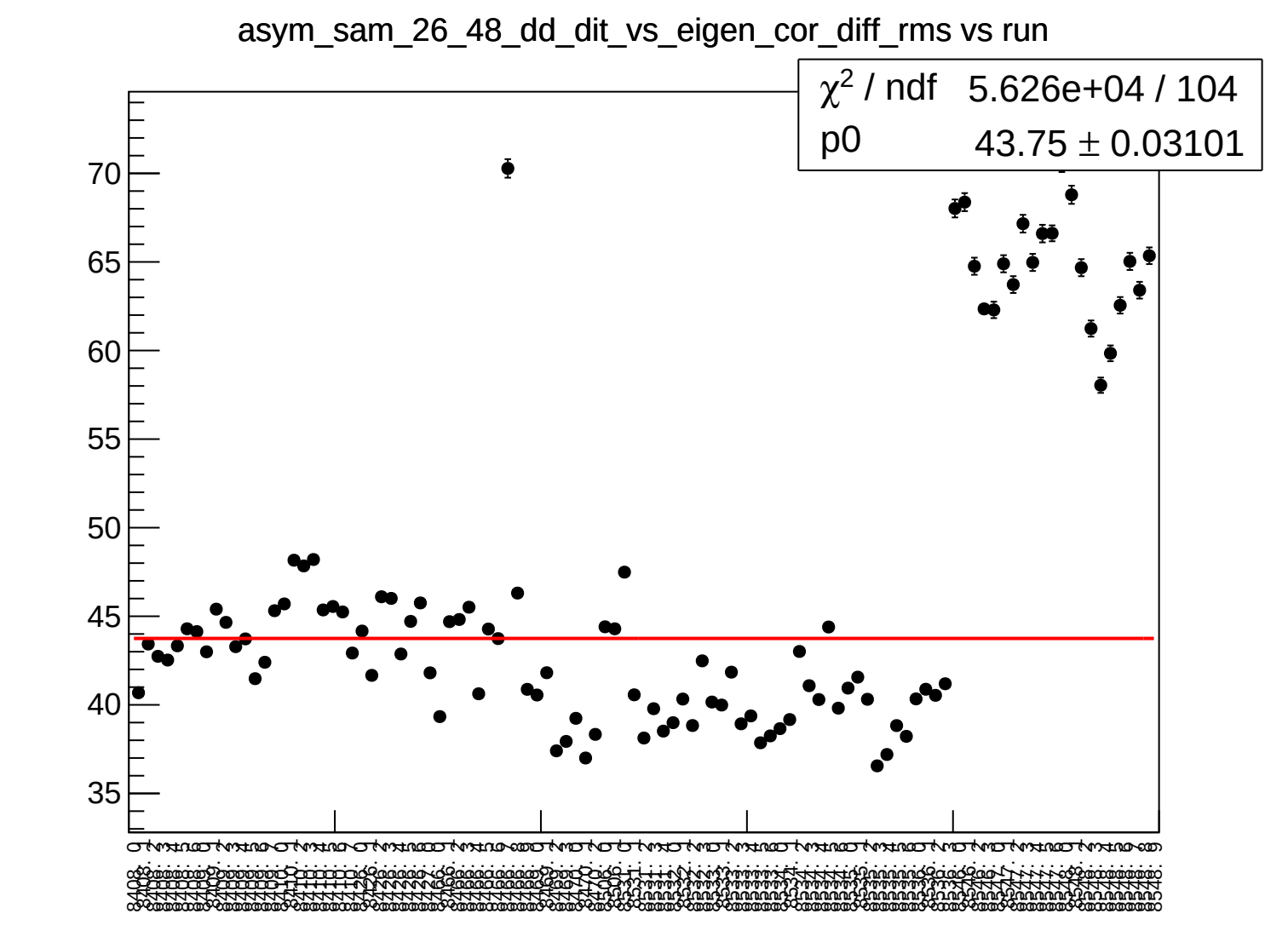

asym_sam_26_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 113.6 / 104
p0 6.582e−14 ± 5.81e−14
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
pull
Entries 105
Mean 111.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.05259
Std Dev 1.039
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

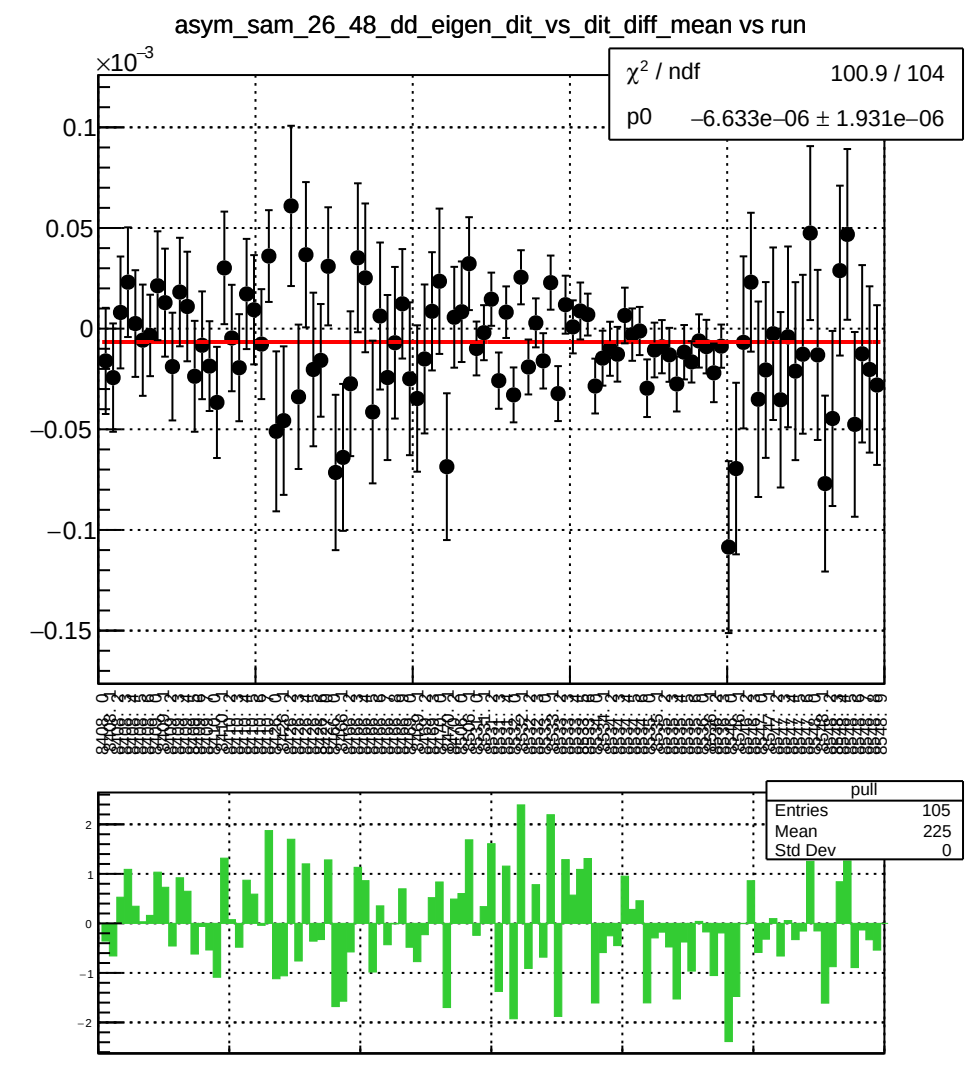

asym_sam_26_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.151e+06 / 104
p0 3.886e−11 ± 4.108e−14
0.05
0.04
0.03
0.02
0.01
0

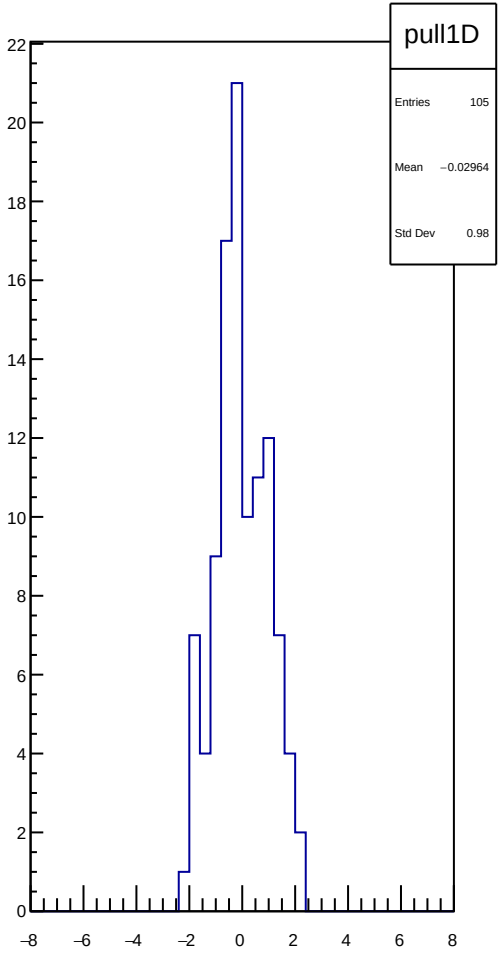

asym_sam_26_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 103.2 / 104
p0 0.04929 ± 0.04386
pull
Entries 105
Mean −150.3
Std Dev 0
pull1D
Entries 105
Mean 0.0136
Std Dev 0.9915

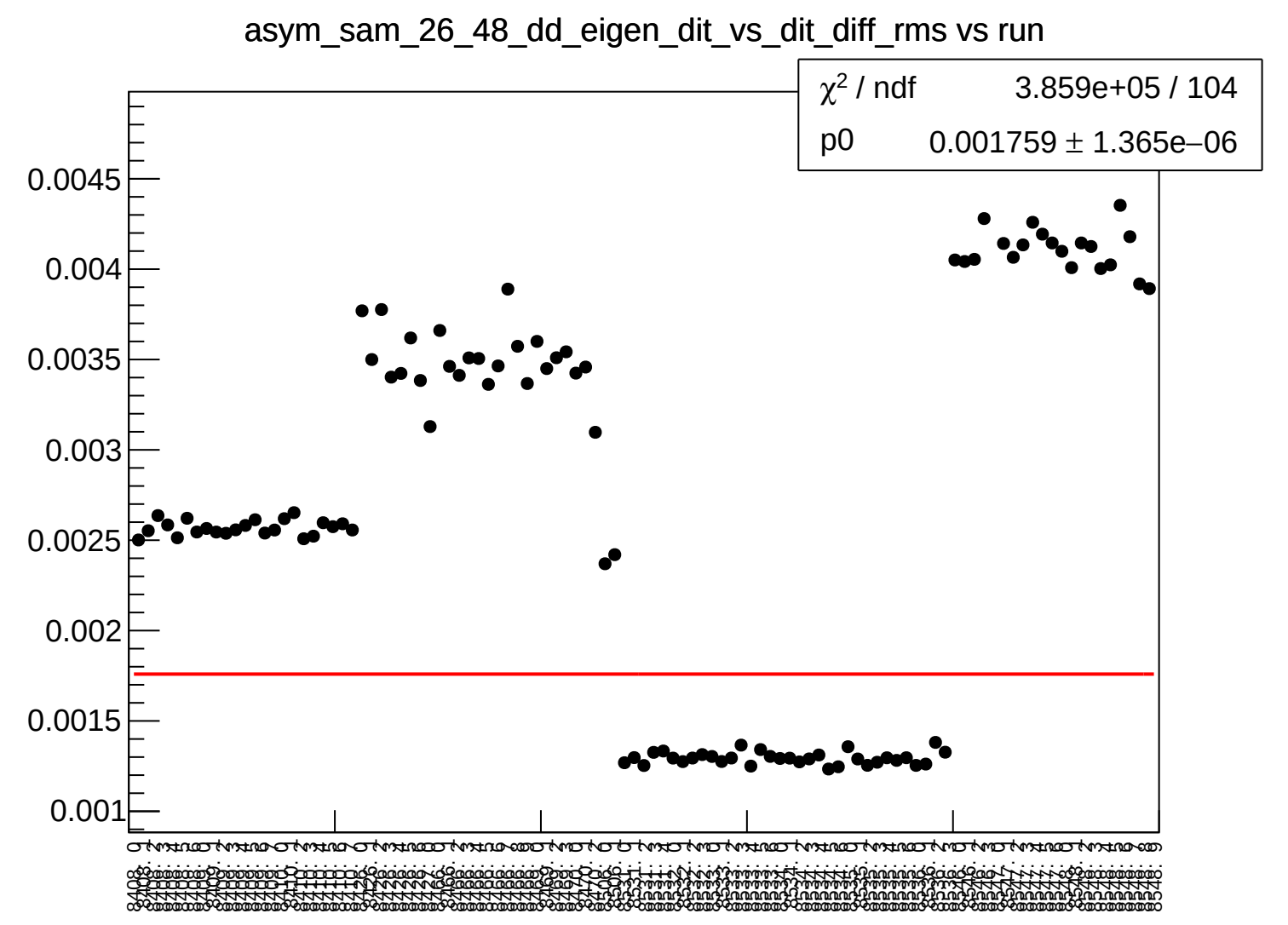

asym_sam_26_48_dd_dit_vs_cor_diff_rms vs run
χ^2 / ndf 5.626e+04 / 104
p0 43.75 ± 0.03101
70
65
60
55
50
45
40
35

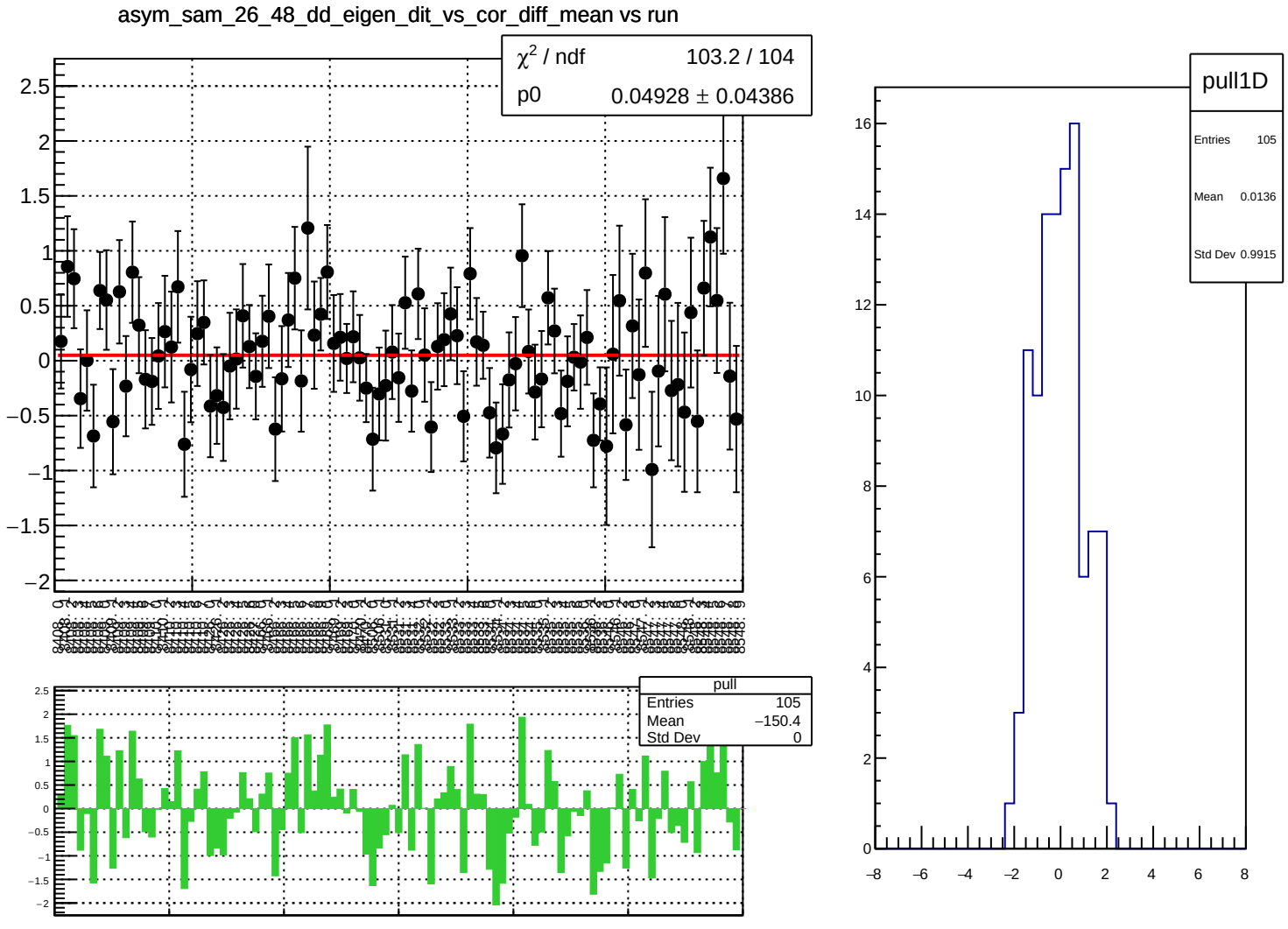

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.2 / 104
p0 0.04929 ± 0.04386
pull
Entries 105
Mean −150.3
Std Dev 0
pull1D
Entries 105
Mean 0.0136
Std Dev 0.9915

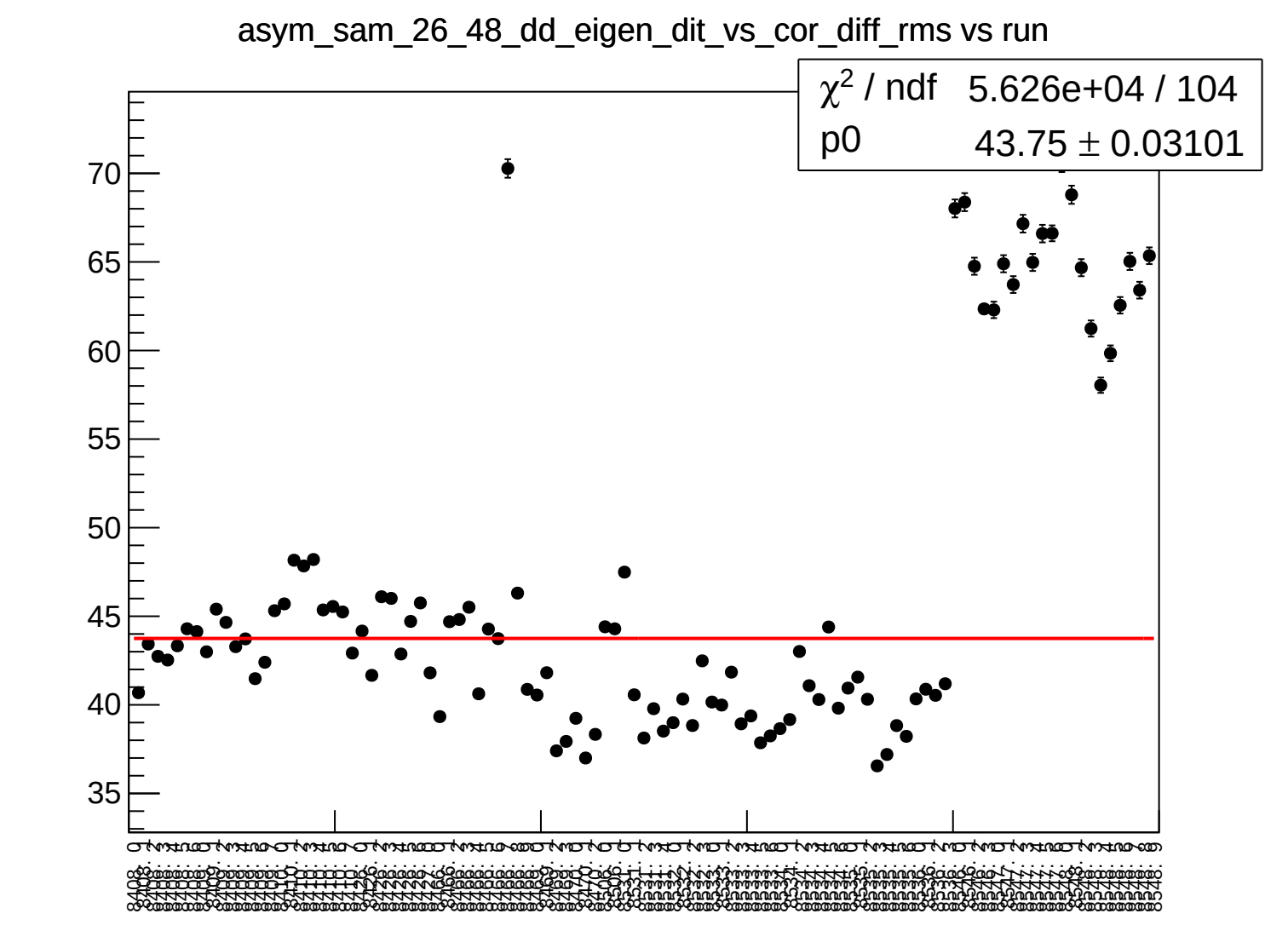

asym_sam_26_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 5.626e+04 / 104
p0 43.75 ± 0.03101
70
65
60
55
50
45
40
35

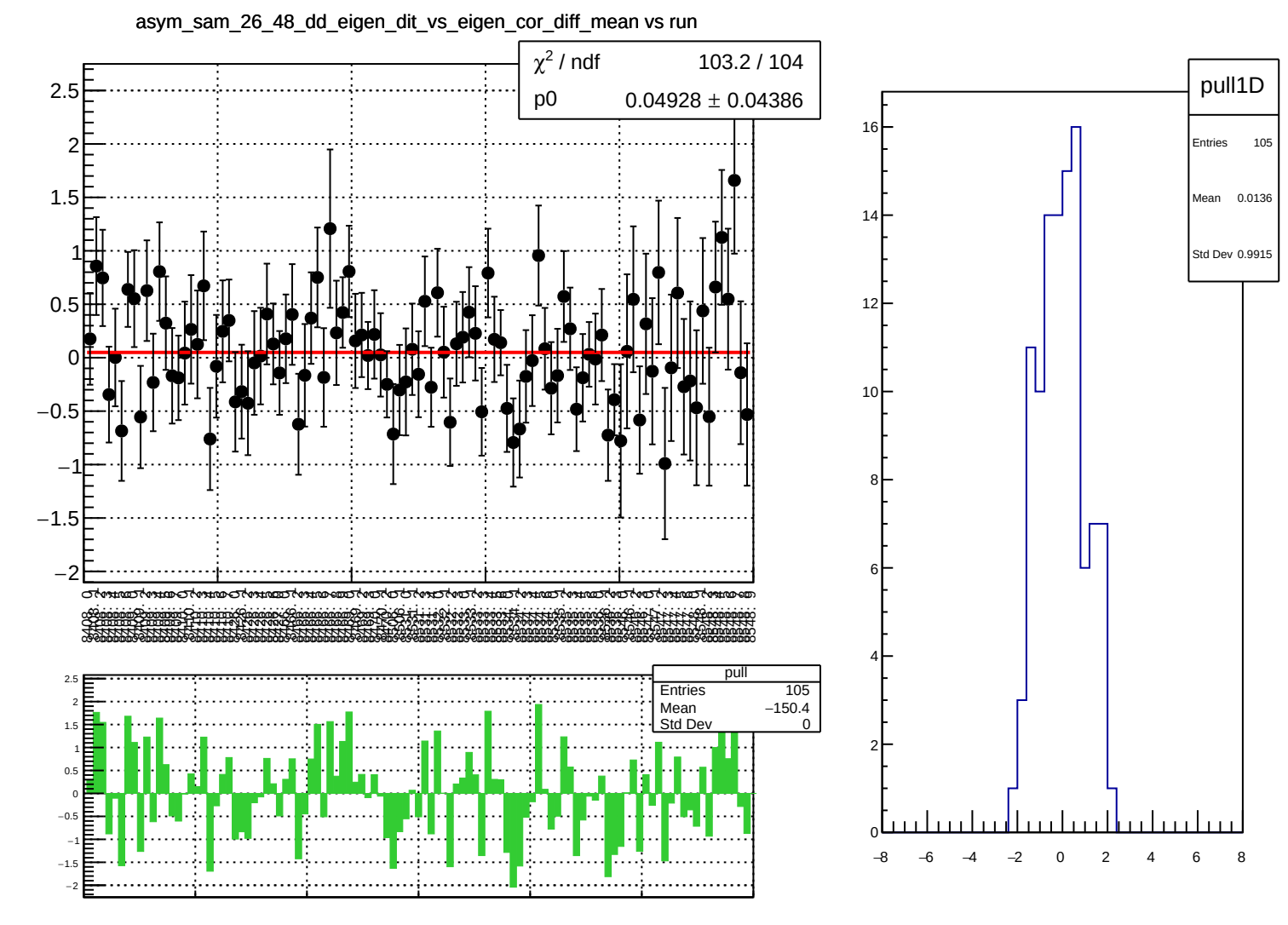

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 100.9 / 104
p0 −6.633e−06 ± 1.931e−06
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 105
Mean 225
Std Dev 0
2
1
0
−1
−2

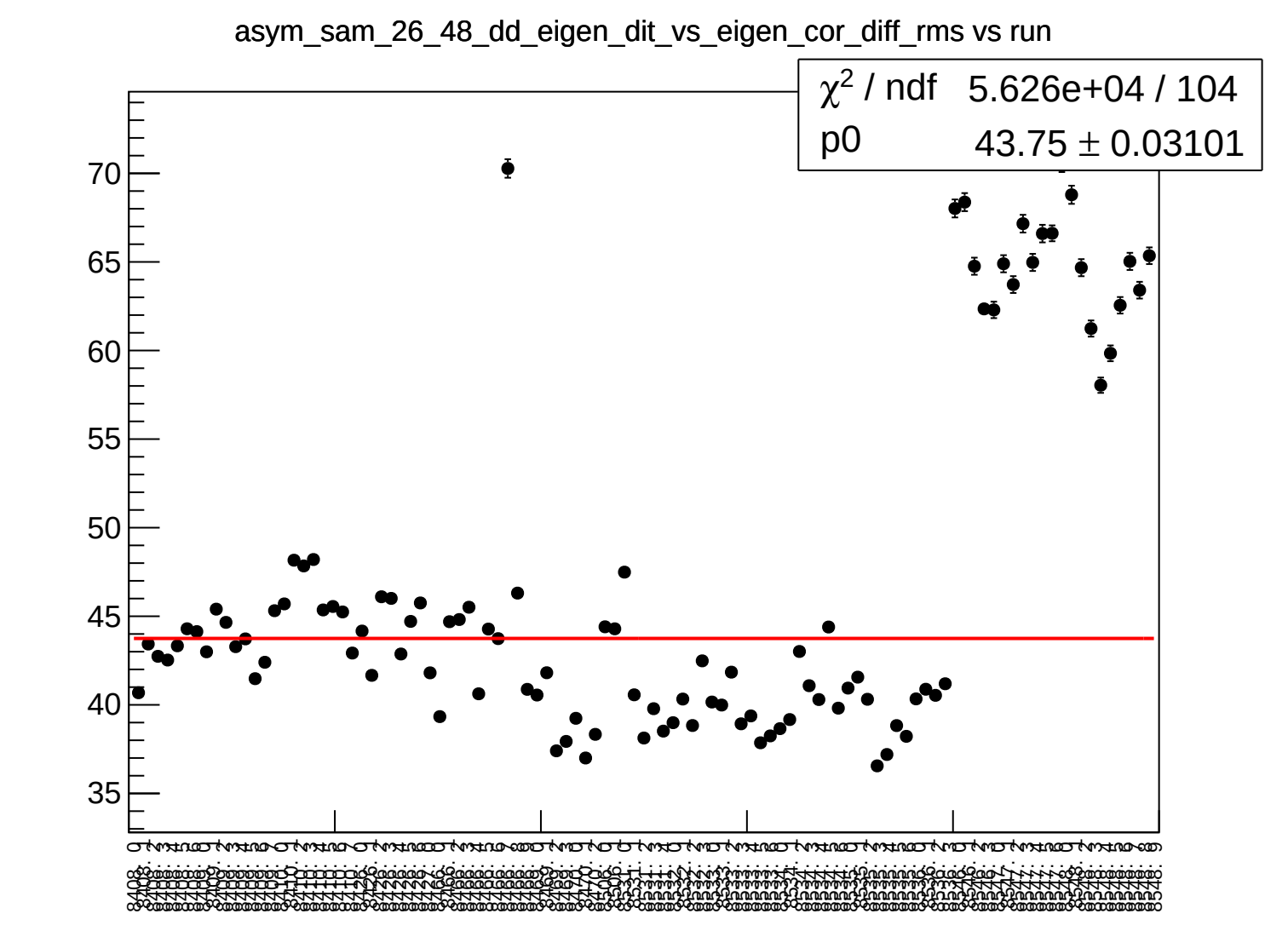

pull1D
Entries 105
Mean −0.02964
Std Dev 0.98
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

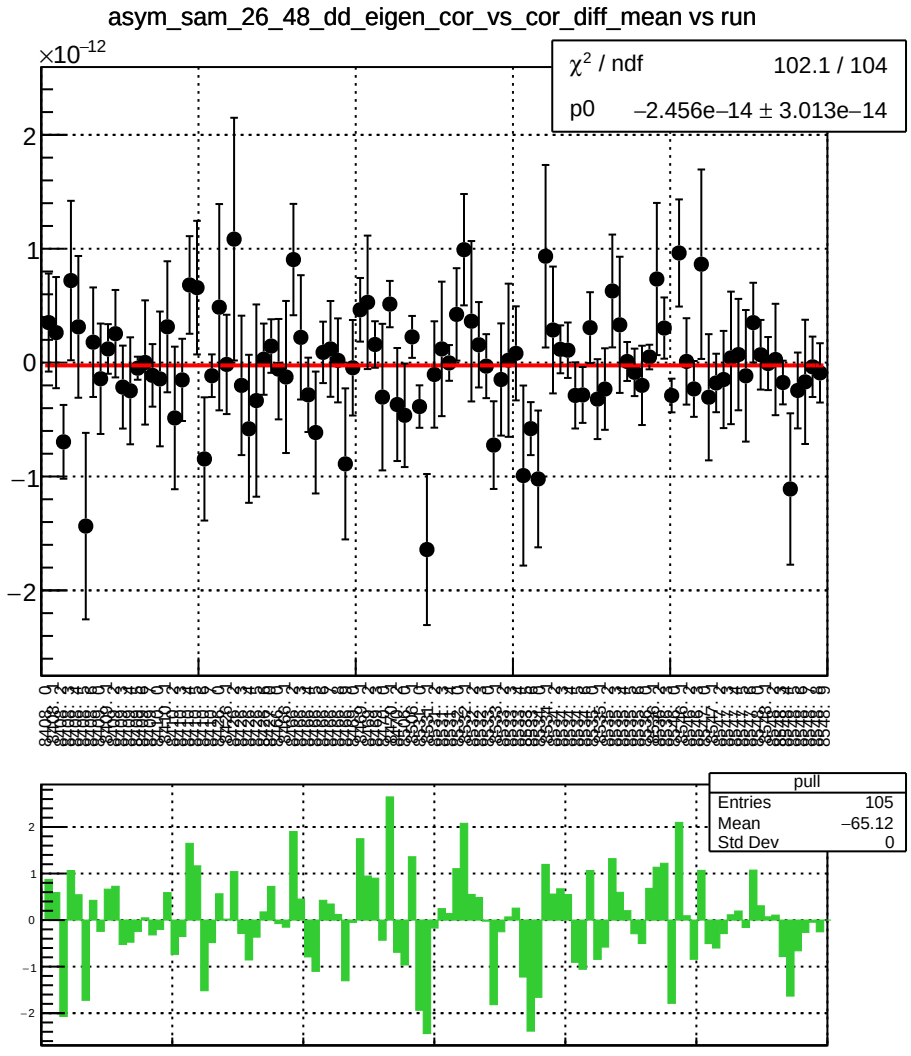

asym_sam_26_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.859e+05 / 104
p0 0.001759 ± 1.365e−06
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001

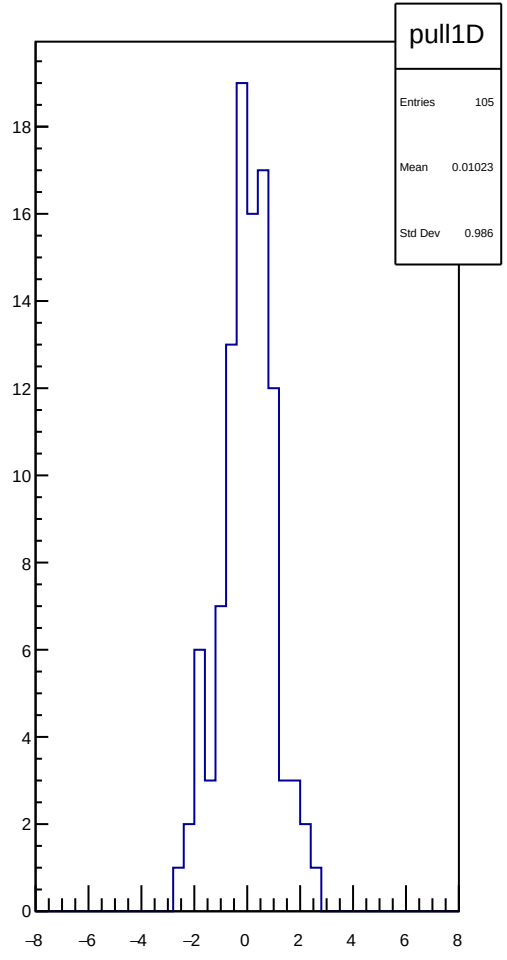

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 103.2 / 104
p0 0.04928 ± 0.04386
pull
Entries 105
Mean −150.4
Std Dev 0
pull1D
Entries 105
Mean 0.0136
Std Dev 0.9915

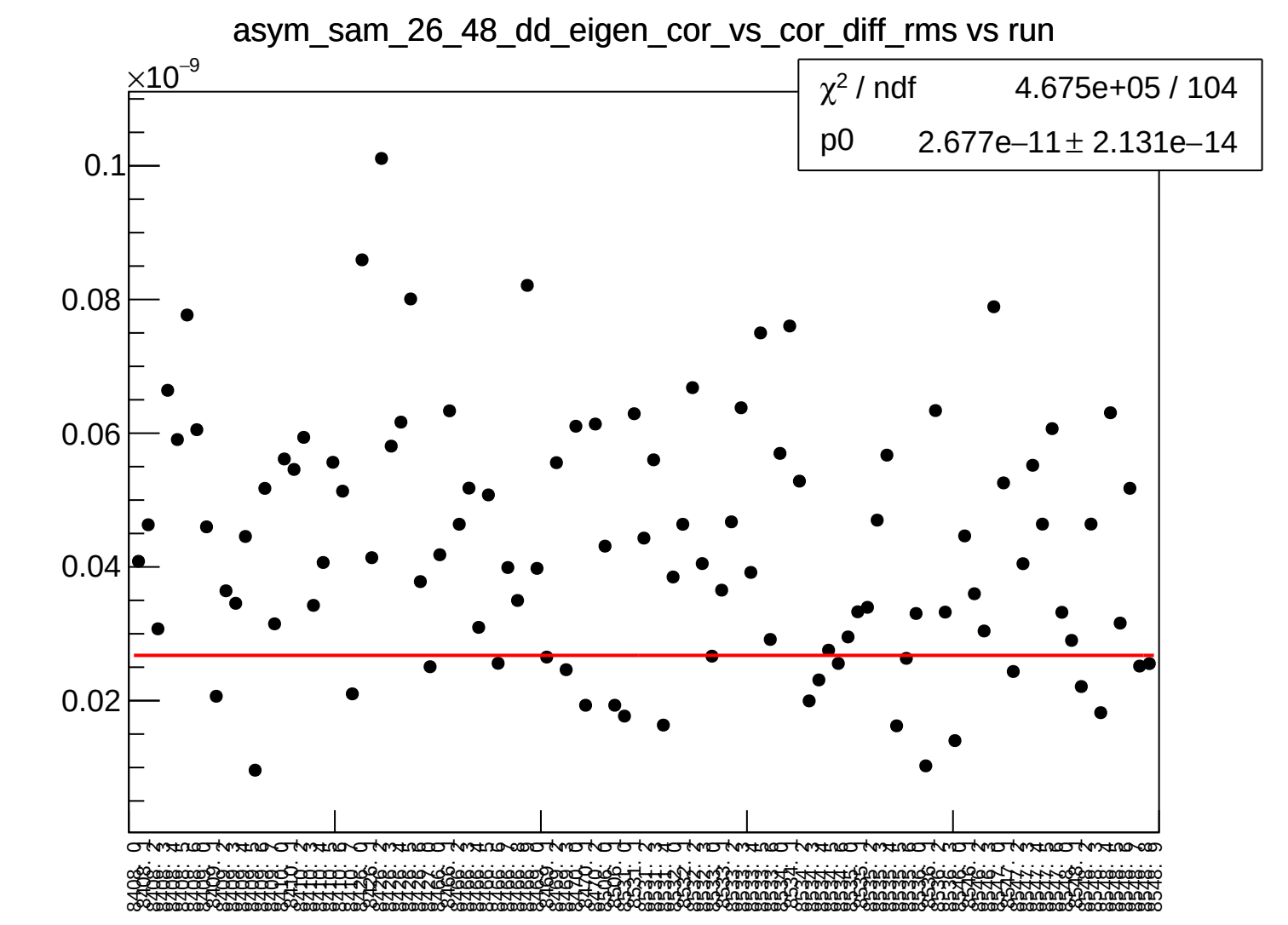

asym_sam_26_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 5.626e+04 / 104
p0 43.75 ± 0.03101
70
65
60
55
50
45
40
35

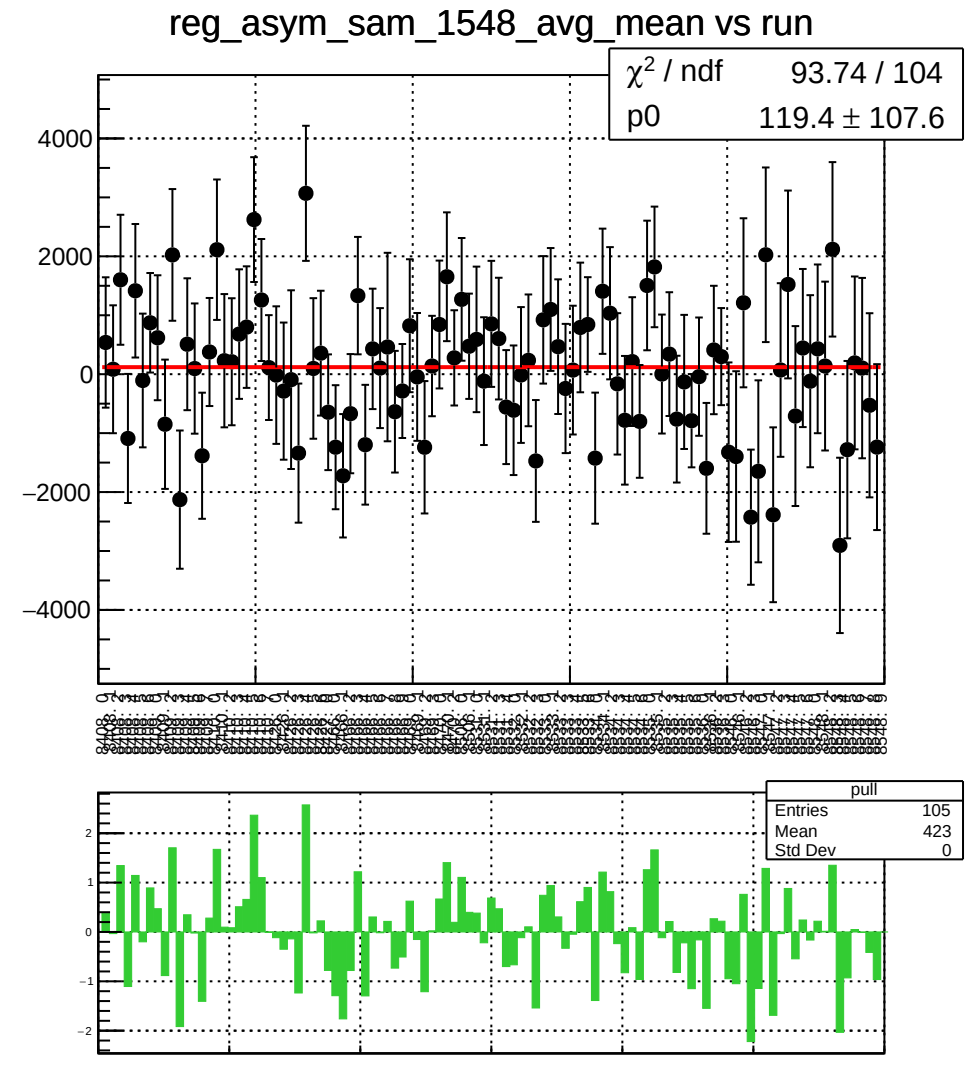

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.2 / 104
p0 0.04928 ± 0.04386
pull
Entries 105
Mean −150.4
Std Dev 0
pull1D
Entries 105
Mean 0.0136
Std Dev 0.9915

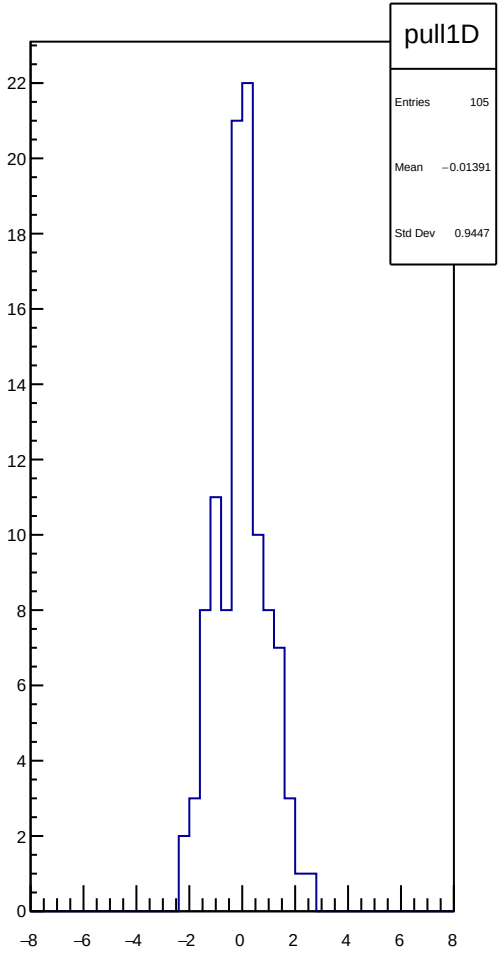

asym_sam_26_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 5.626e+04 / 104
p0 43.75 ± 0.03101
70
65
60
55
50
45
40
35

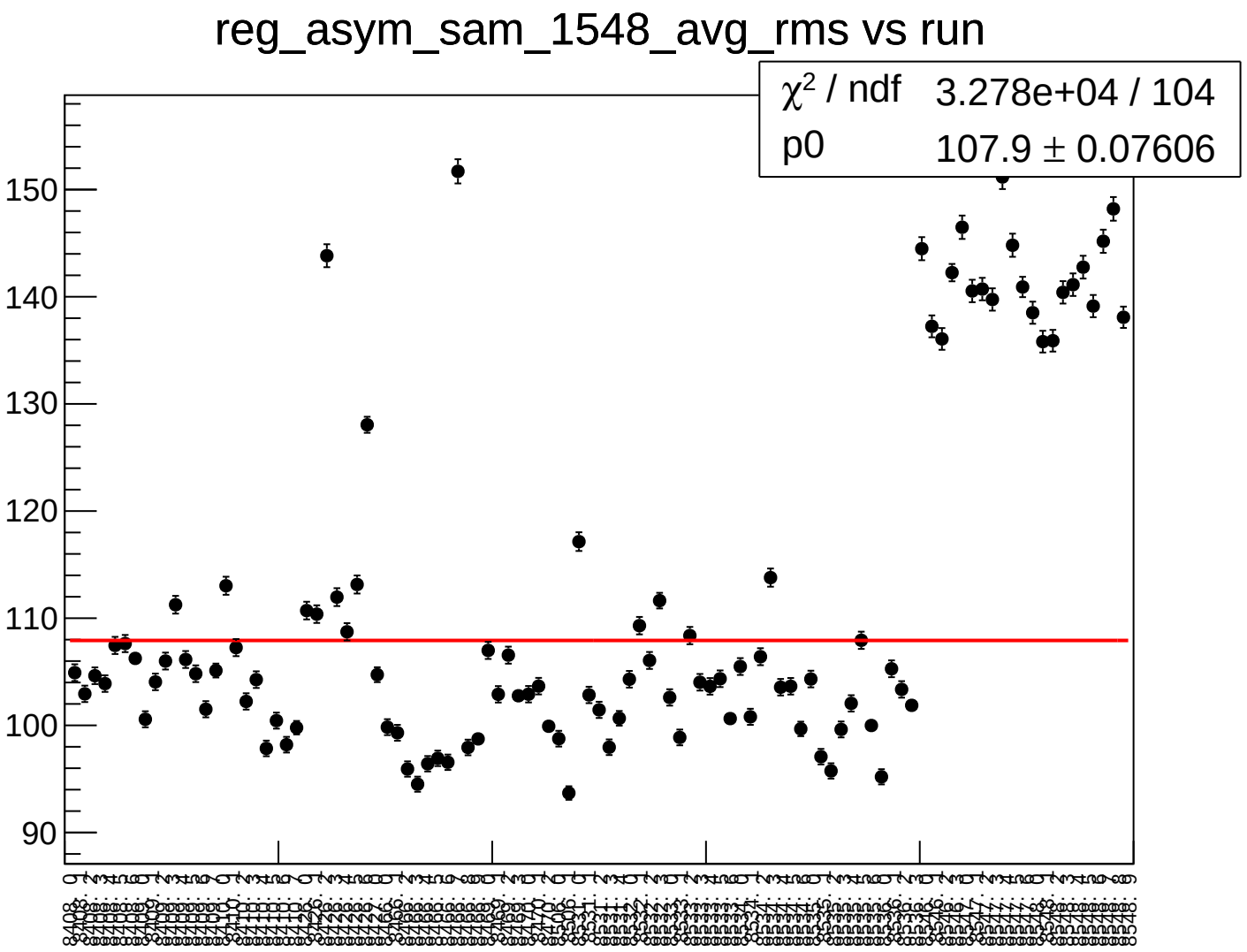

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 102.1 / 104
p0 −2.456e−14 ± 3.013e−14
pull
Entries 105
Mean −65.12
Std Dev 0

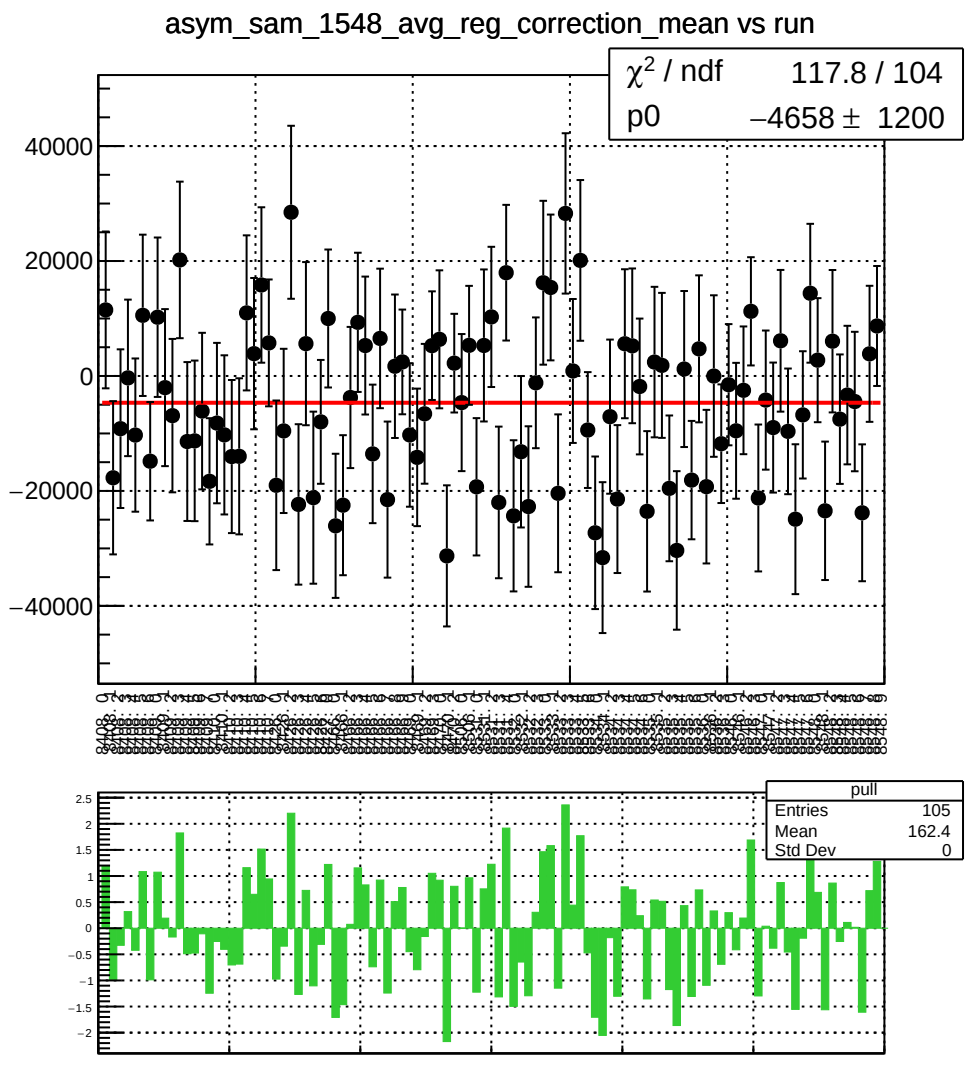

pull1D
Entries 105
Mean 0.01023
Std Dev 0.986

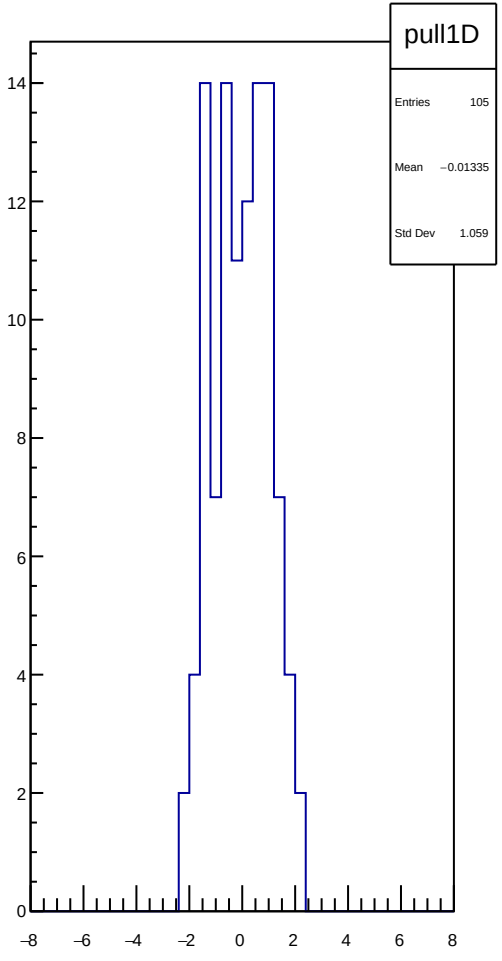

asym_sam_26_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 4.675e+05 / 104
p0 2.677e−11 ± 2.131e−14
0.1
0.08
0.06
0.04
0.02

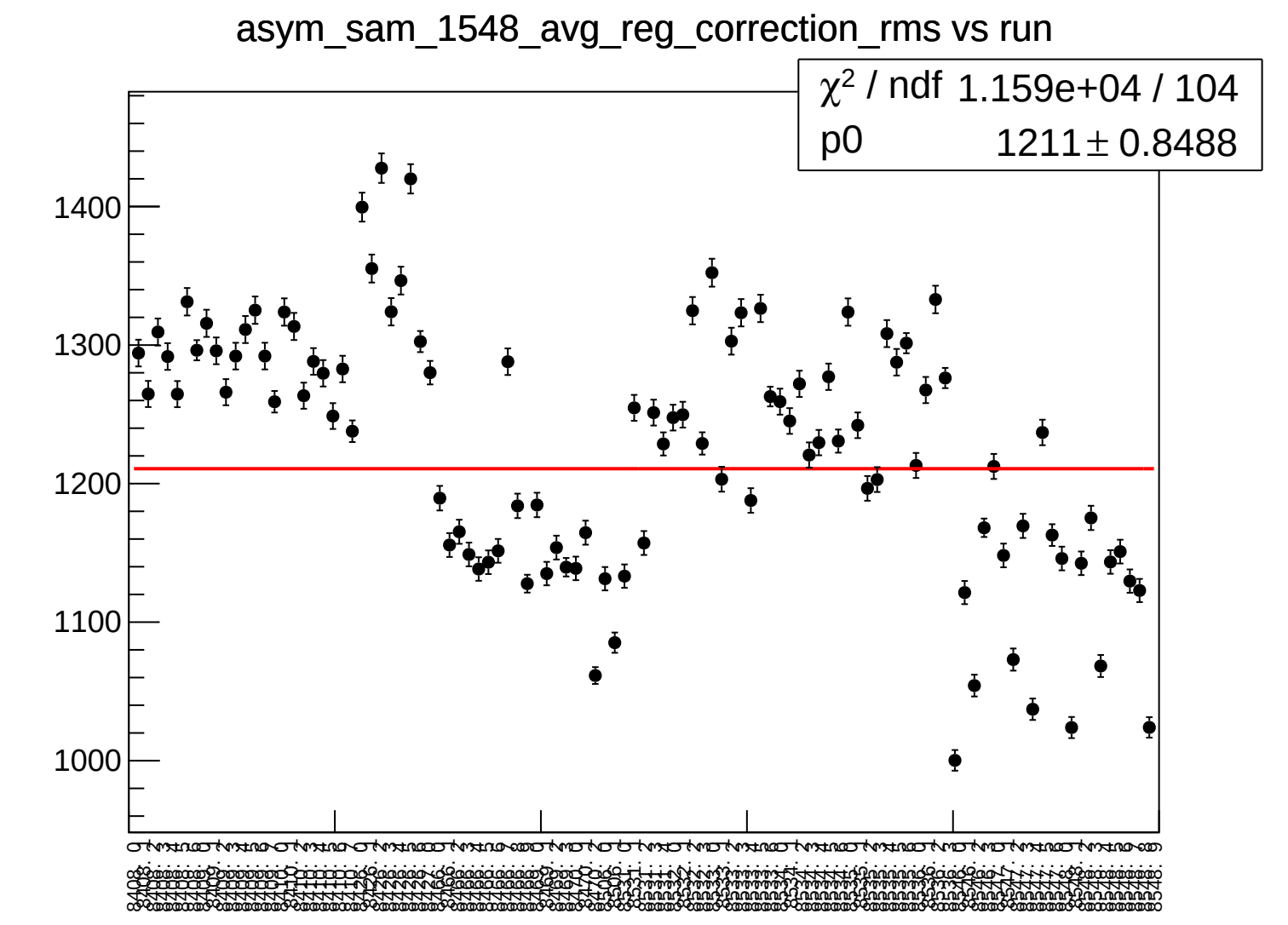

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 93.74 / 104
p0 119.4 ± 107.6
4000
2000
0
−2000
−4000
pull
Entries 105
Mean 423
Std Dev 0
2
1
0
−1
−2

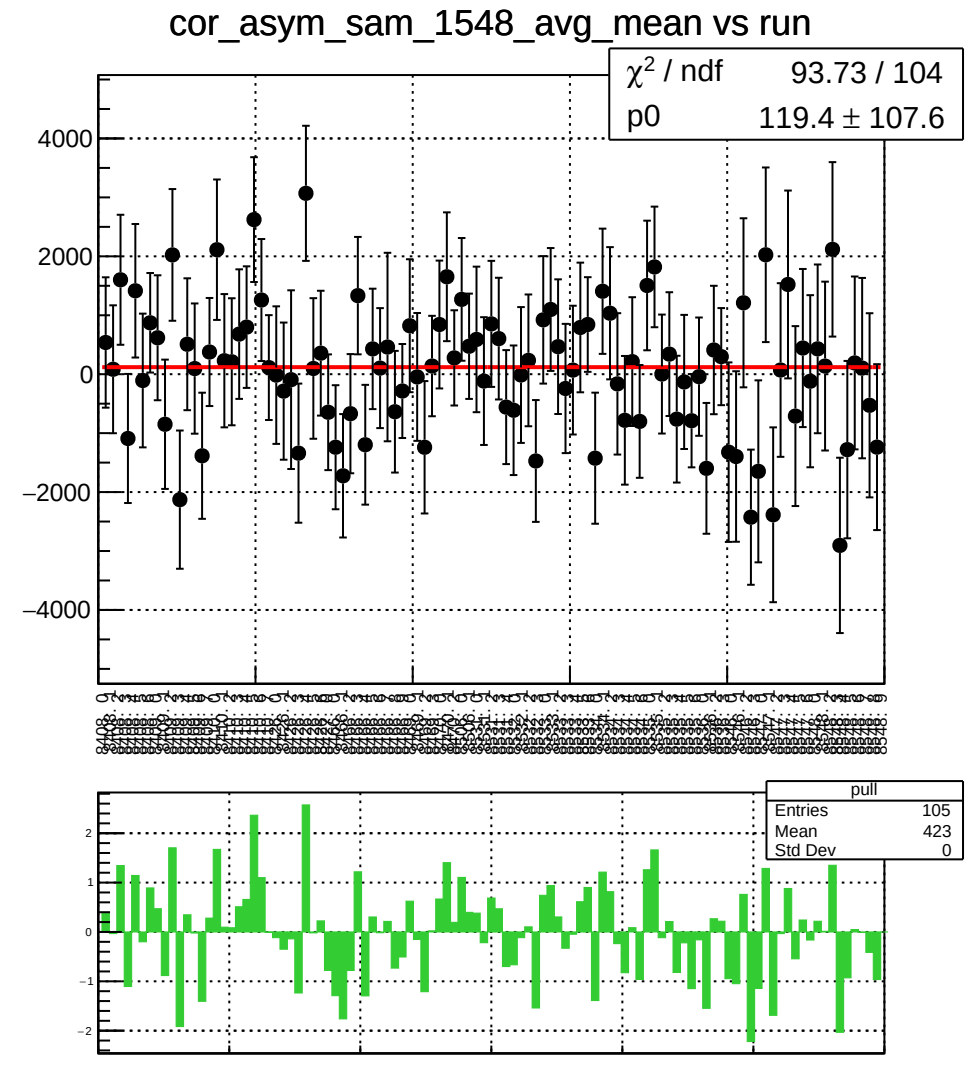

pull1D
Entries 105
Mean −0.01391
Std Dev 0.9447
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

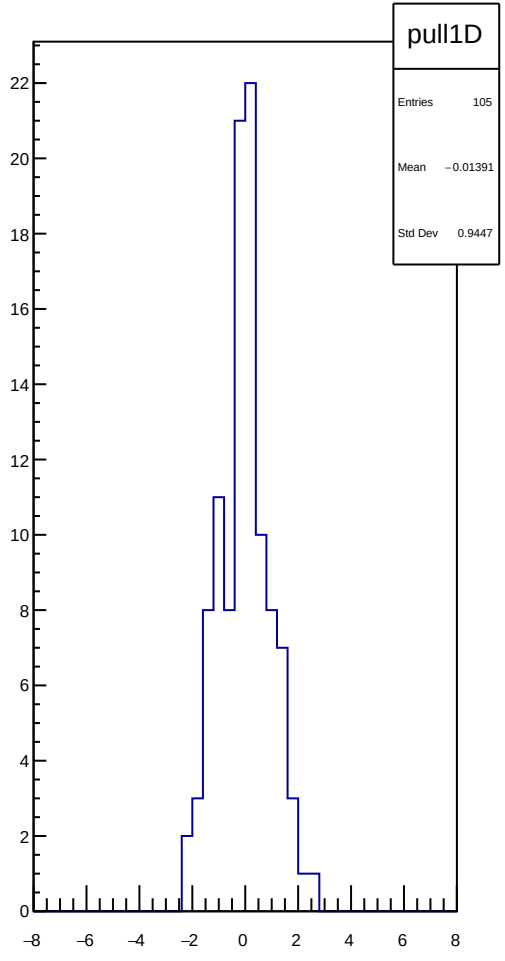

reg_asym_sam_1548_avg_rms vs run
χ² / ndf 3.278e+04 / 104
p0 107.9 ± 0.07606
150
140
130
120
110
100
90

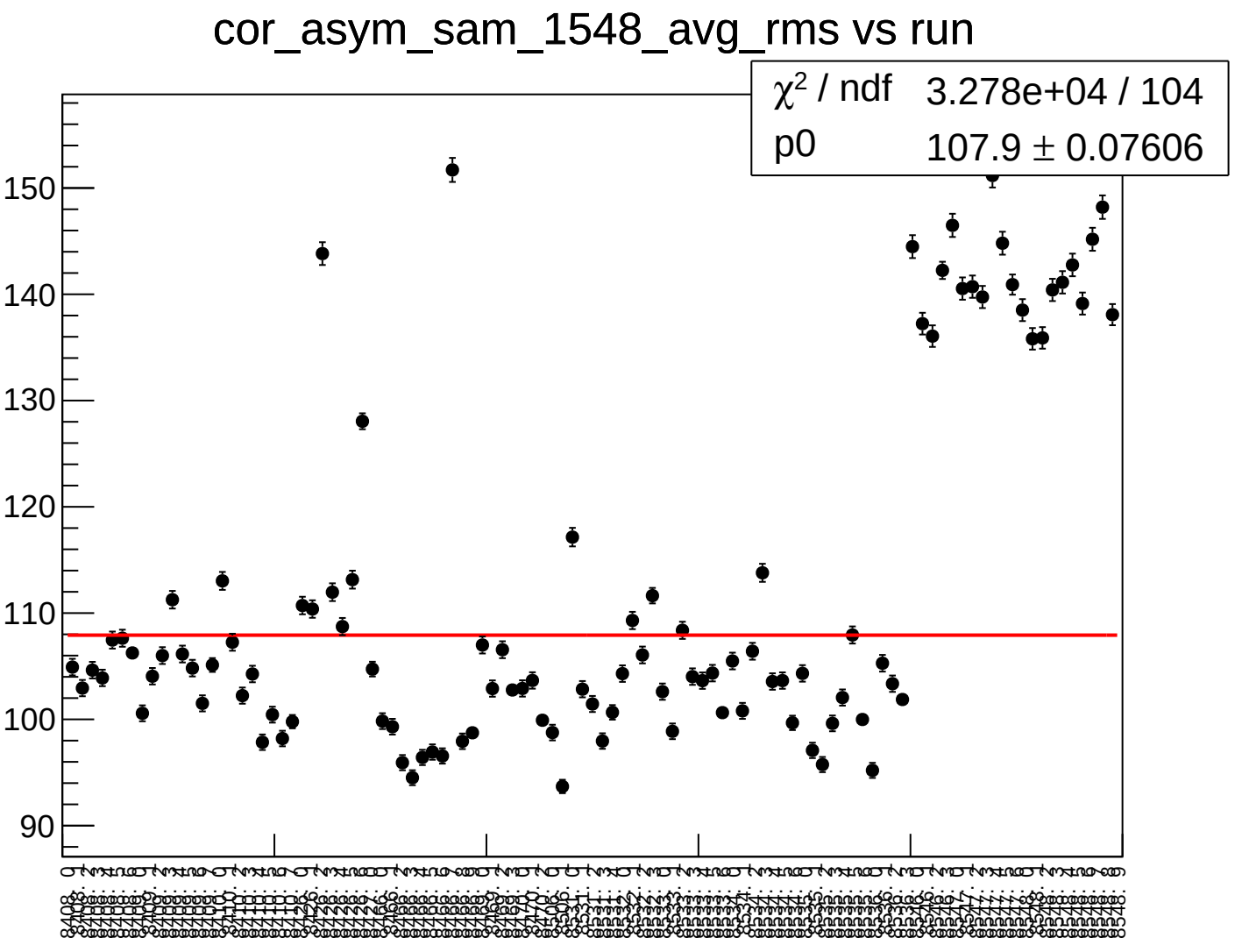

asym_sam_1548_avg_reg_correction_mean vs run
χ² / ndf 117.8 / 104
p0 −4658 ± 1200
40000
20000
0
−20000
−40000
pull
Entries 105
Mean 162.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

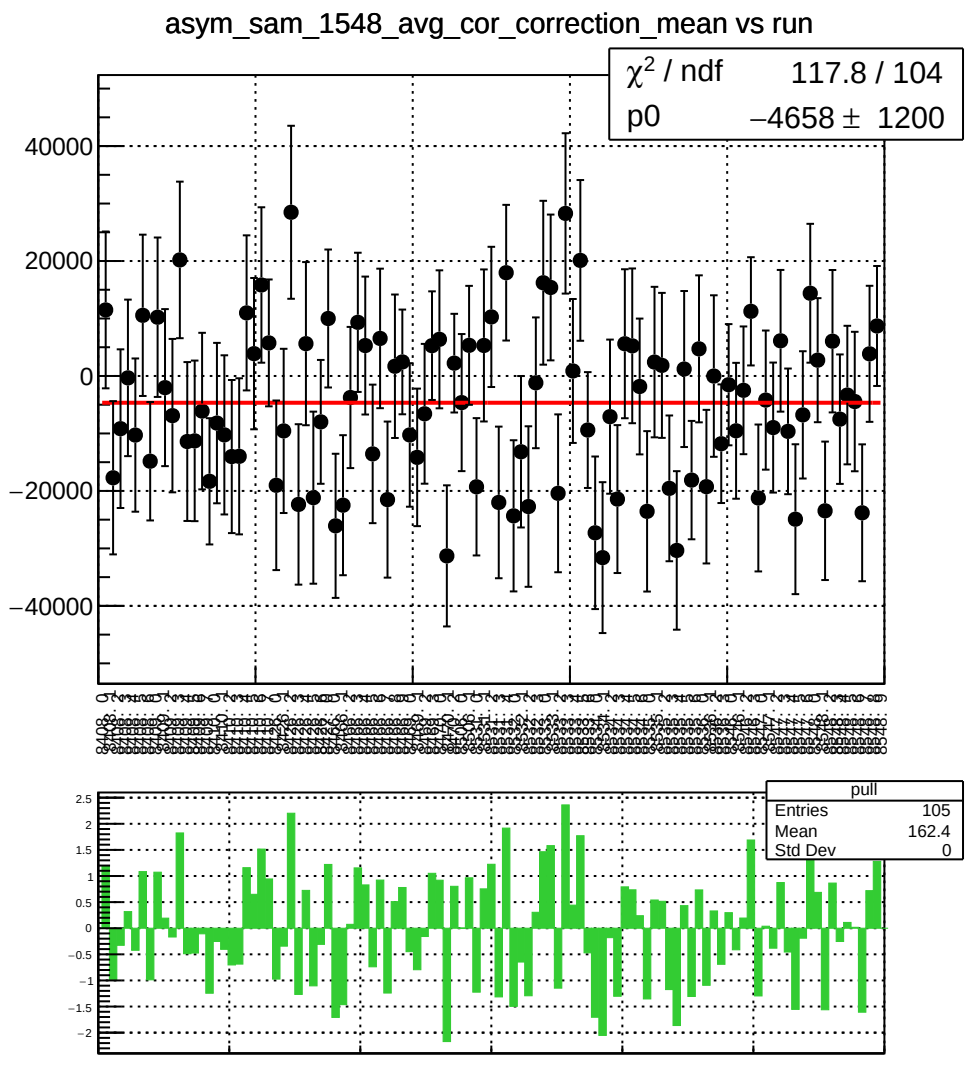

pull1D
Entries 105
Mean −0.01335
Std Dev 1.059
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

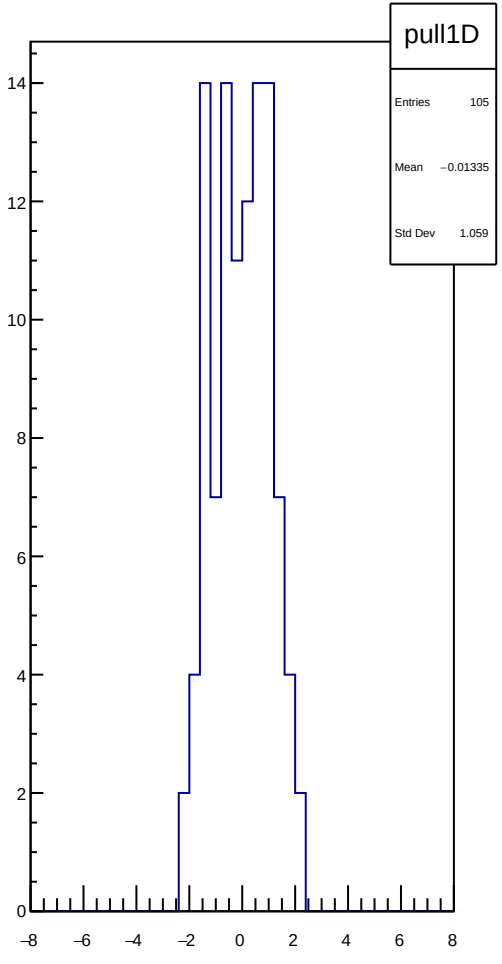

asym_sam_1548_avg_reg_correction_rms vs run
χ² / ndf 1.159e+04 / 104
p0 1211 ± 0.8488
1400
1300
1200
1100
1000

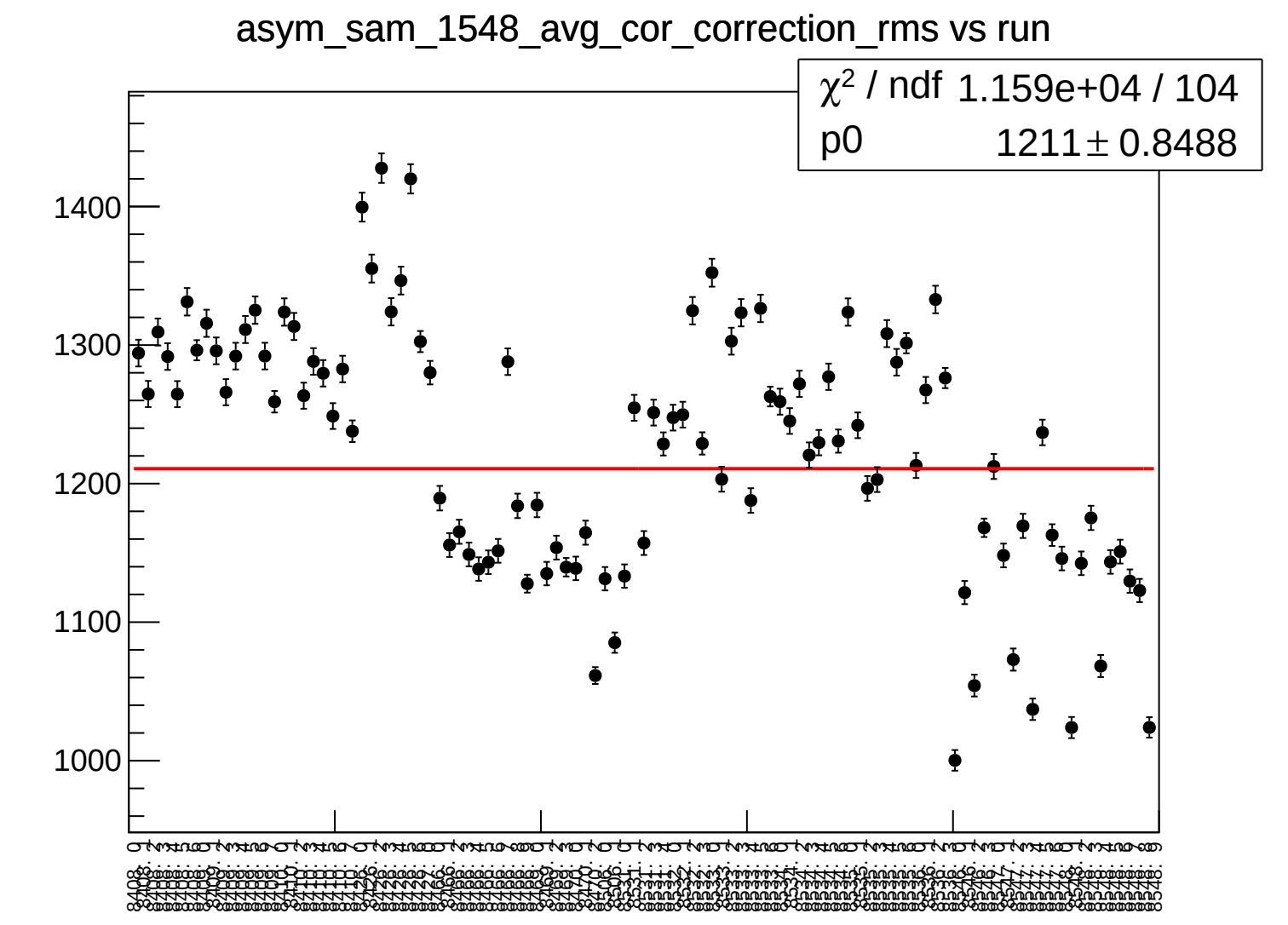

cor_asym_sam_1548_avg_mean vs run
χ² / ndf 93.73 / 104
p0 119.4 ± 107.6
4000
2000
0
−2000
−4000
pull
Entries 105
Mean 423
Std Dev 0
2
1
0
−1
−2

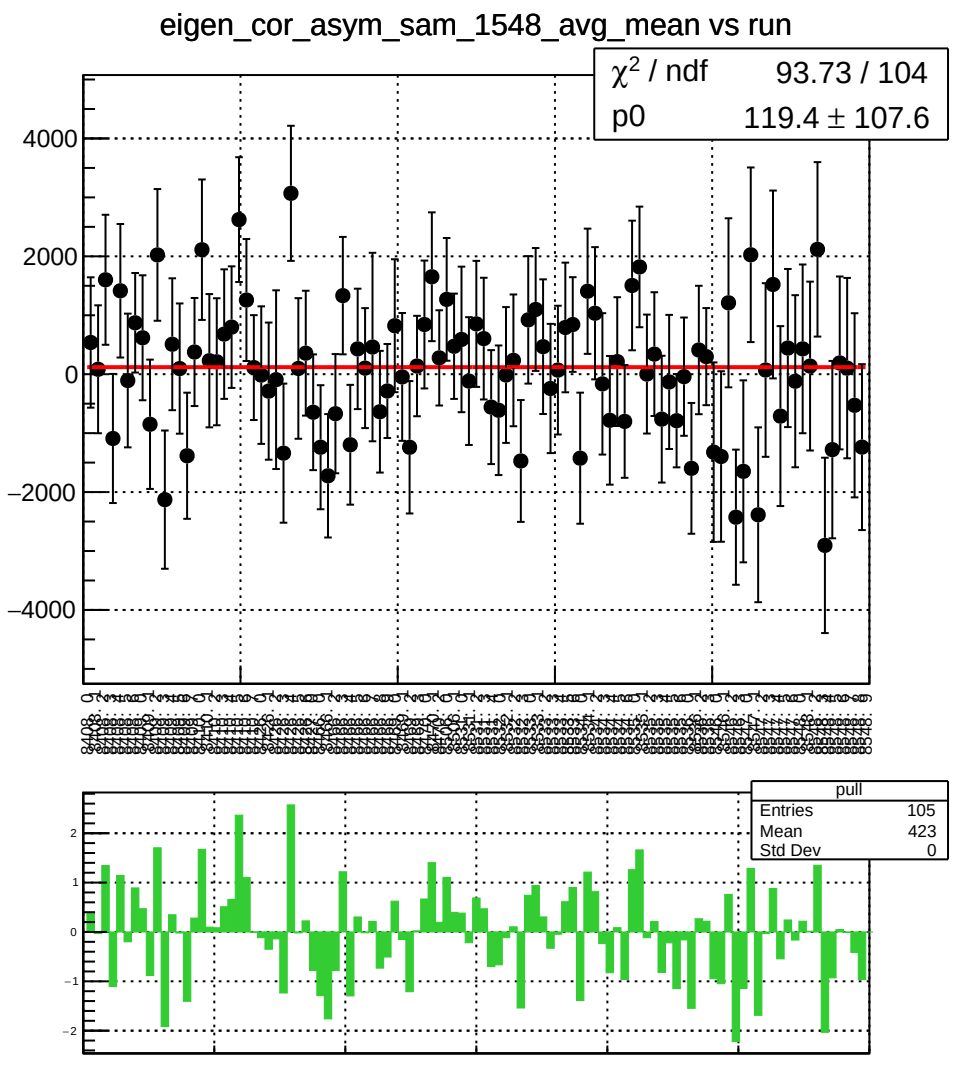

pull1D
Entries 105
Mean −0.01391
Std Dev 0.9447
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

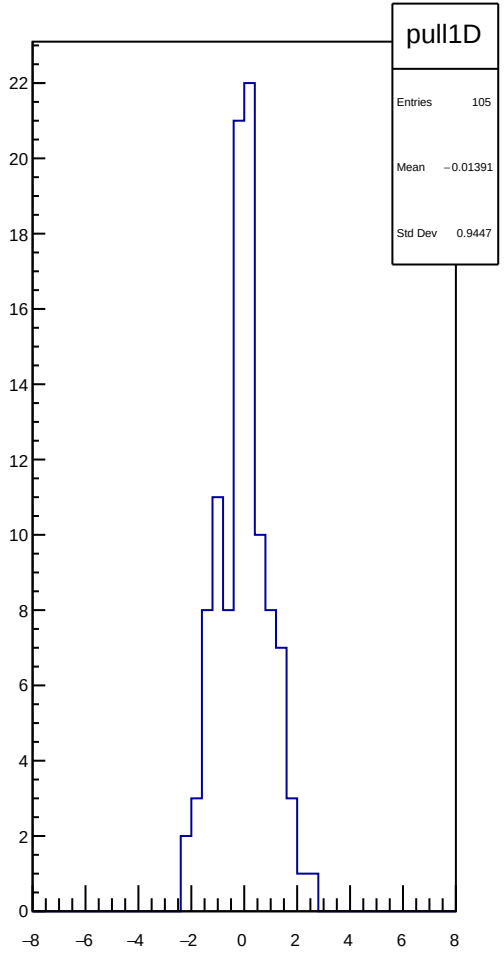

cor_asym_sam_1548_avg_rms vs run
χ² / ndf 3.278e+04 / 104
p0 107.9 ± 0.07606
150
140
130
120
110
100
90


asym_sam_1548_avg_cor_correction_mean vs run
χ² / ndf 117.8 / 104
p0 −4658 ± 1200
40000
20000
0
−20000
−40000
pull
Entries 105
Mean 162.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 105
Mean −0.01335
Std Dev 1.059
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1548_avg_cor_correction_rms vs run
χ² / ndf 1.159e+04 / 104
p0 1211 ± 0.8488
1400
1300
1200
1100
1000


eigen_cor_asym_sam_1548_avg_mean vs run
χ² / ndf 93.73 / 104
p0 119.4 ± 107.6
4000
2000
0
−2000
−4000
pull
Entries 105
Mean 423
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 105
Mean −0.01391
Std Dev 0.9447
22
20
18
16
14
12
10
8
6
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2
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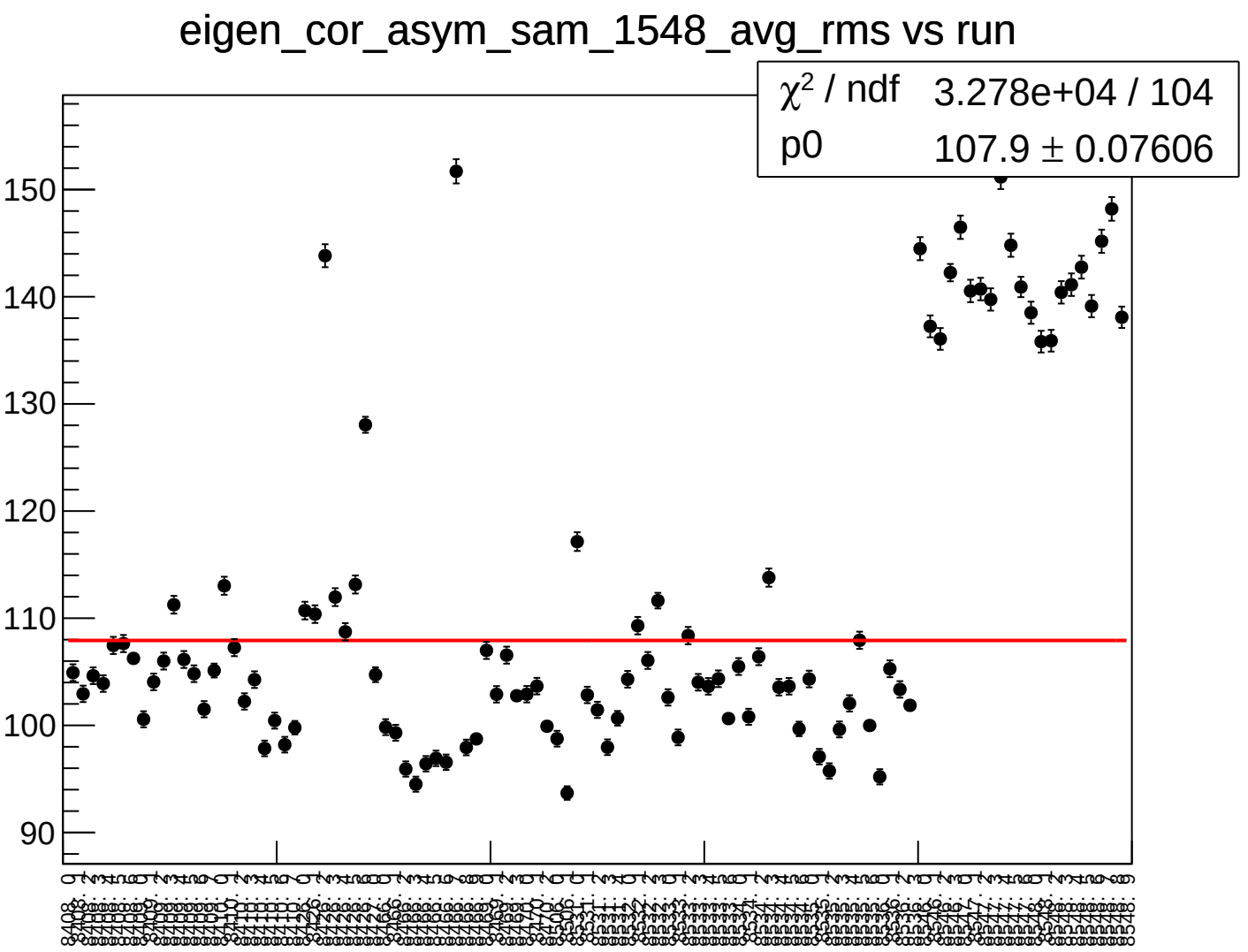
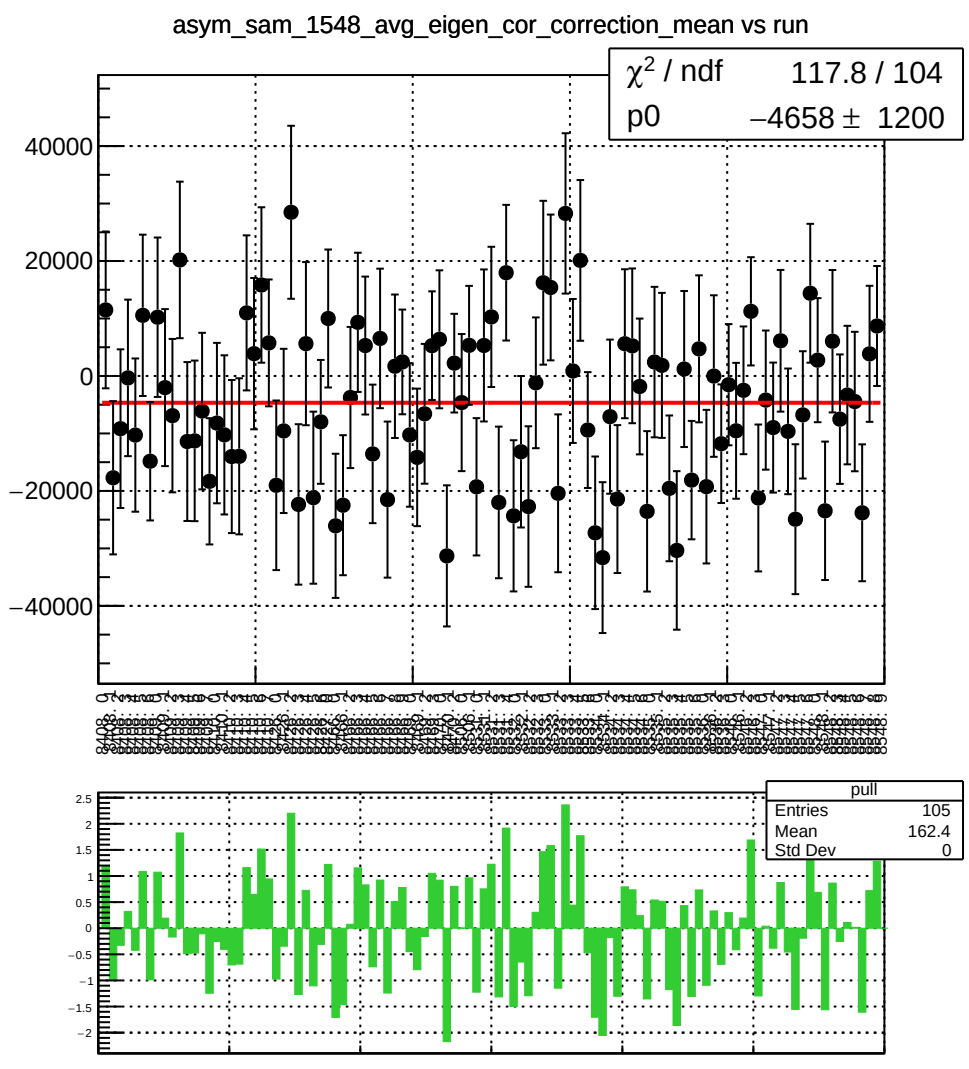
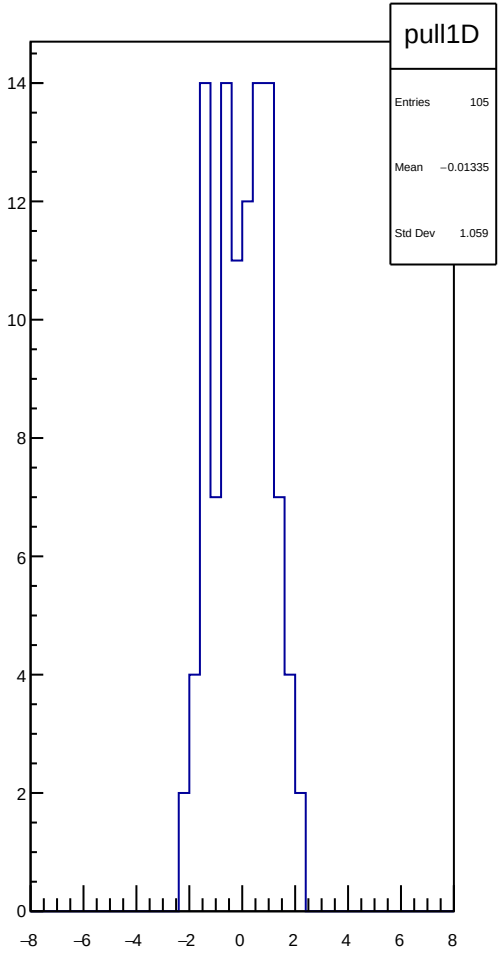
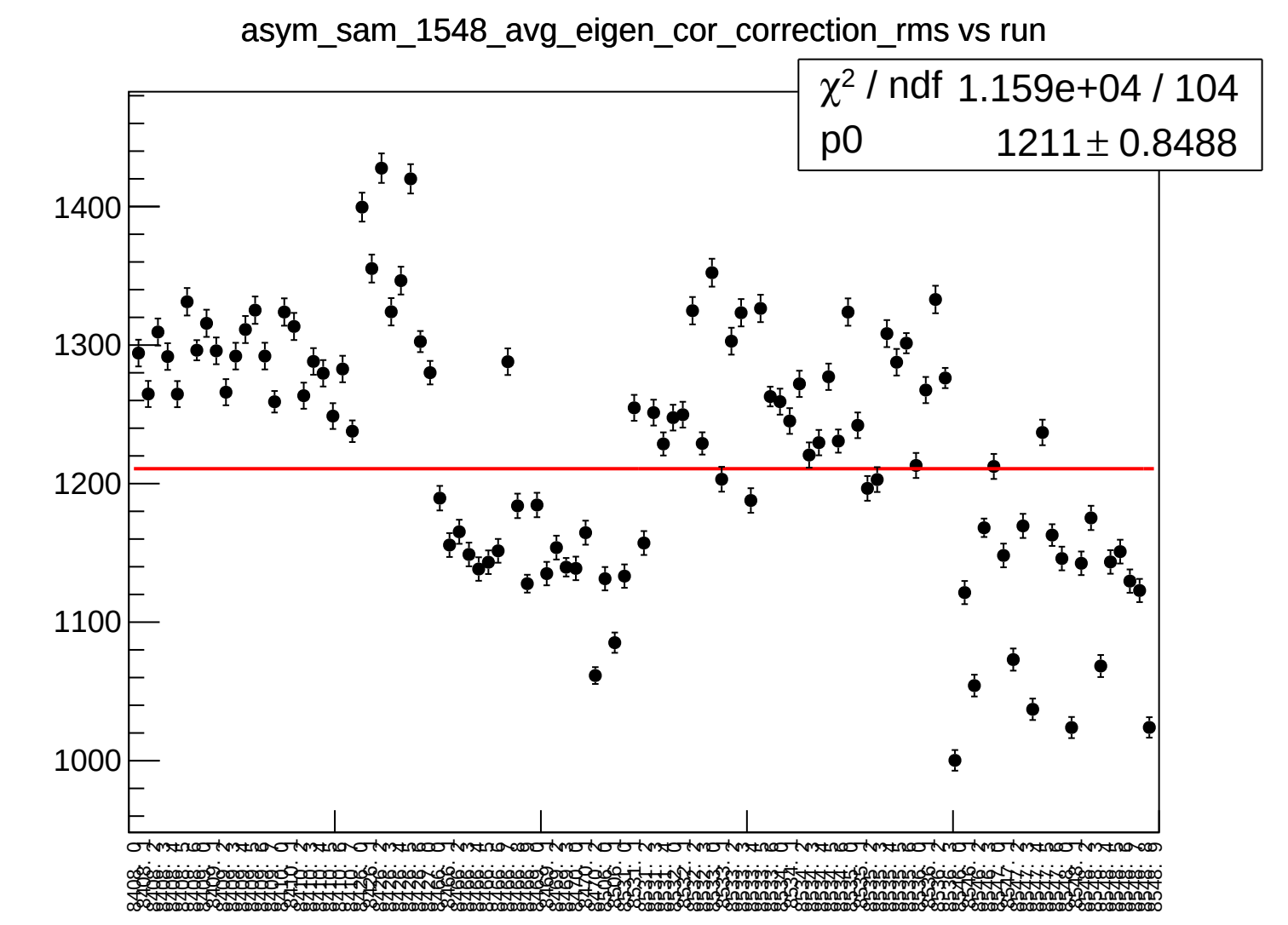
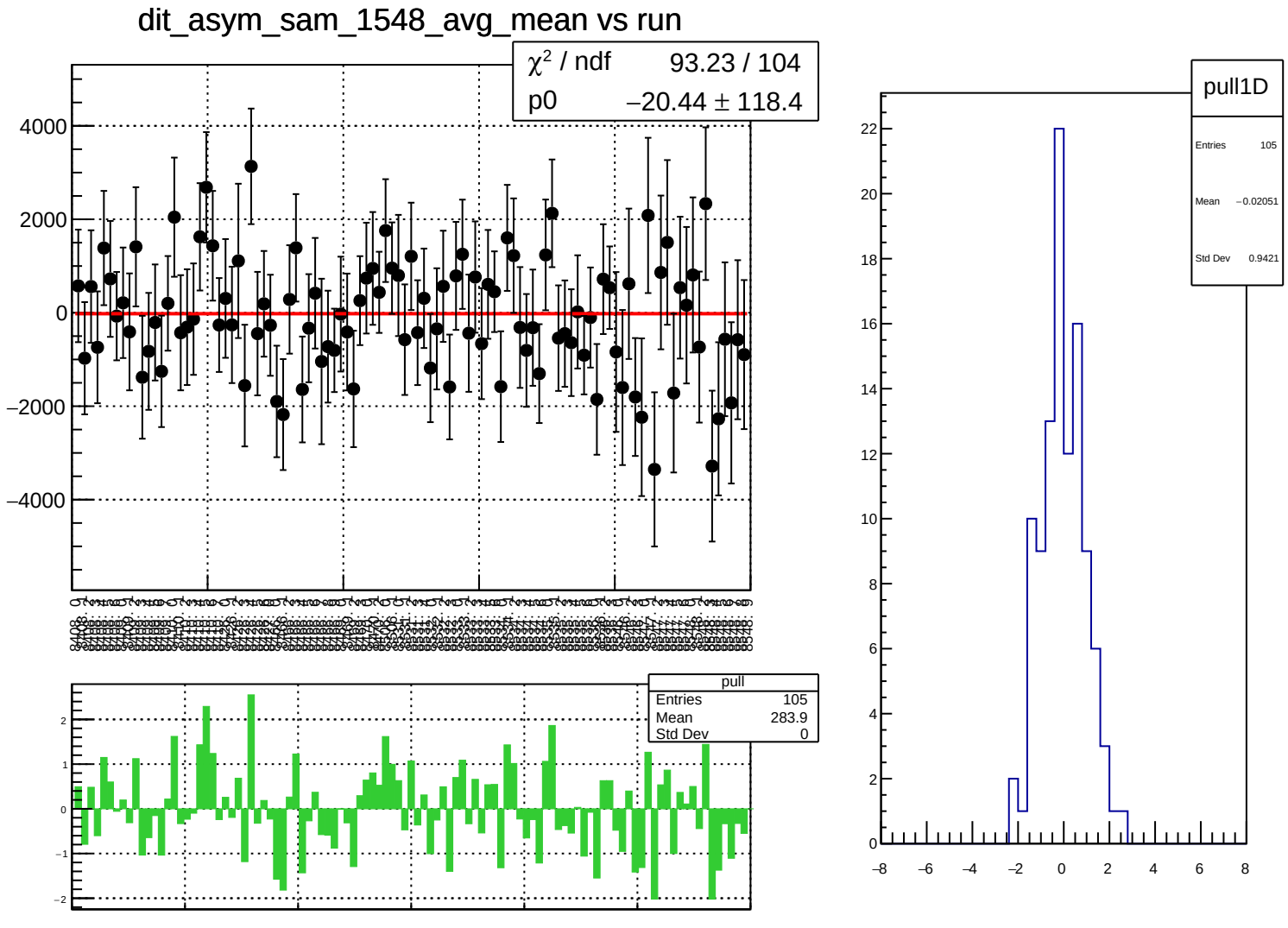
−6
−4
−2
0
2
4
6
8

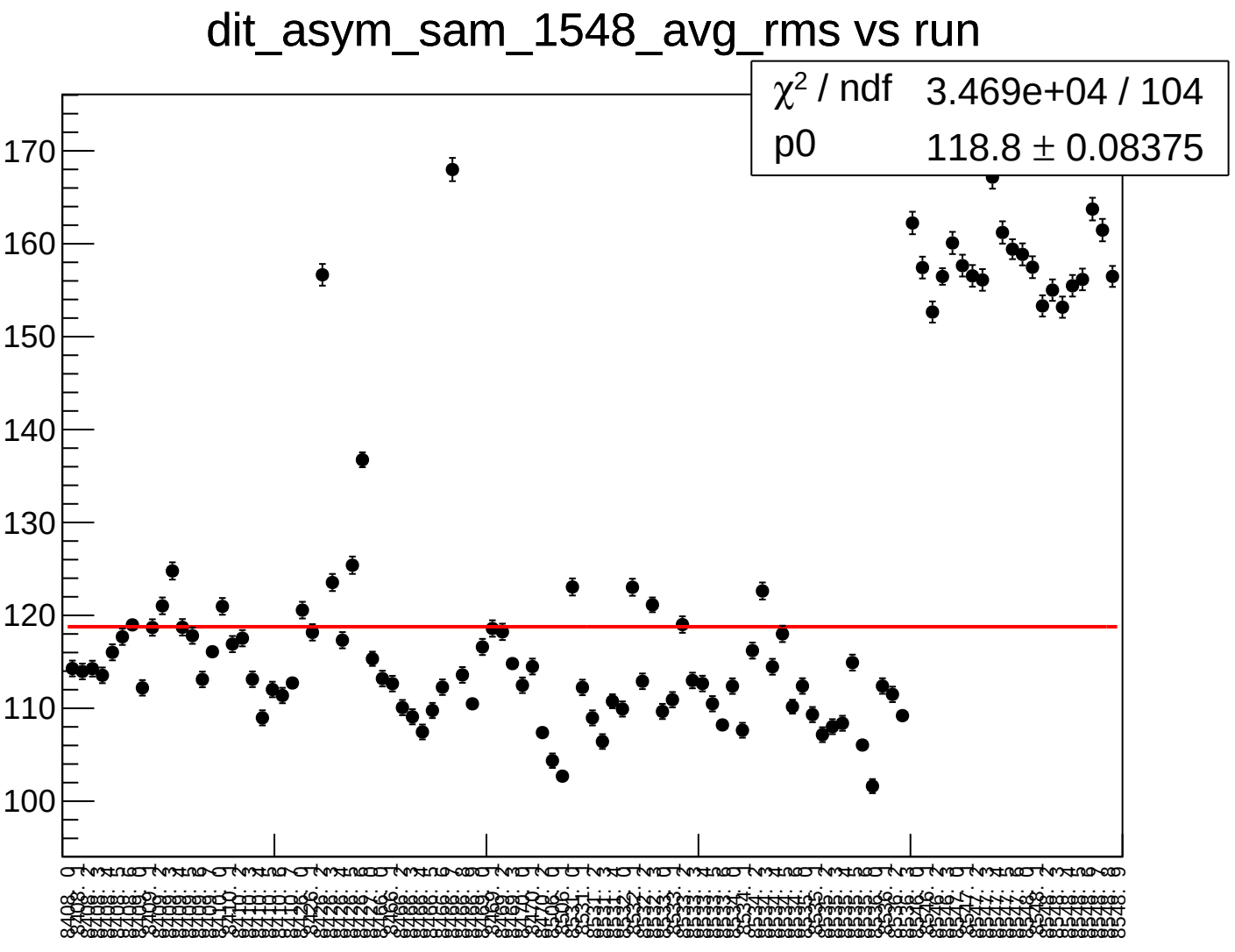

eigen_cor_asym_sam_1548_avg_rms vs run
χ^2 / ndf 3.278e+04 / 104
p0 107.9 ± 0.07606
150
140
130
120
110
100
90

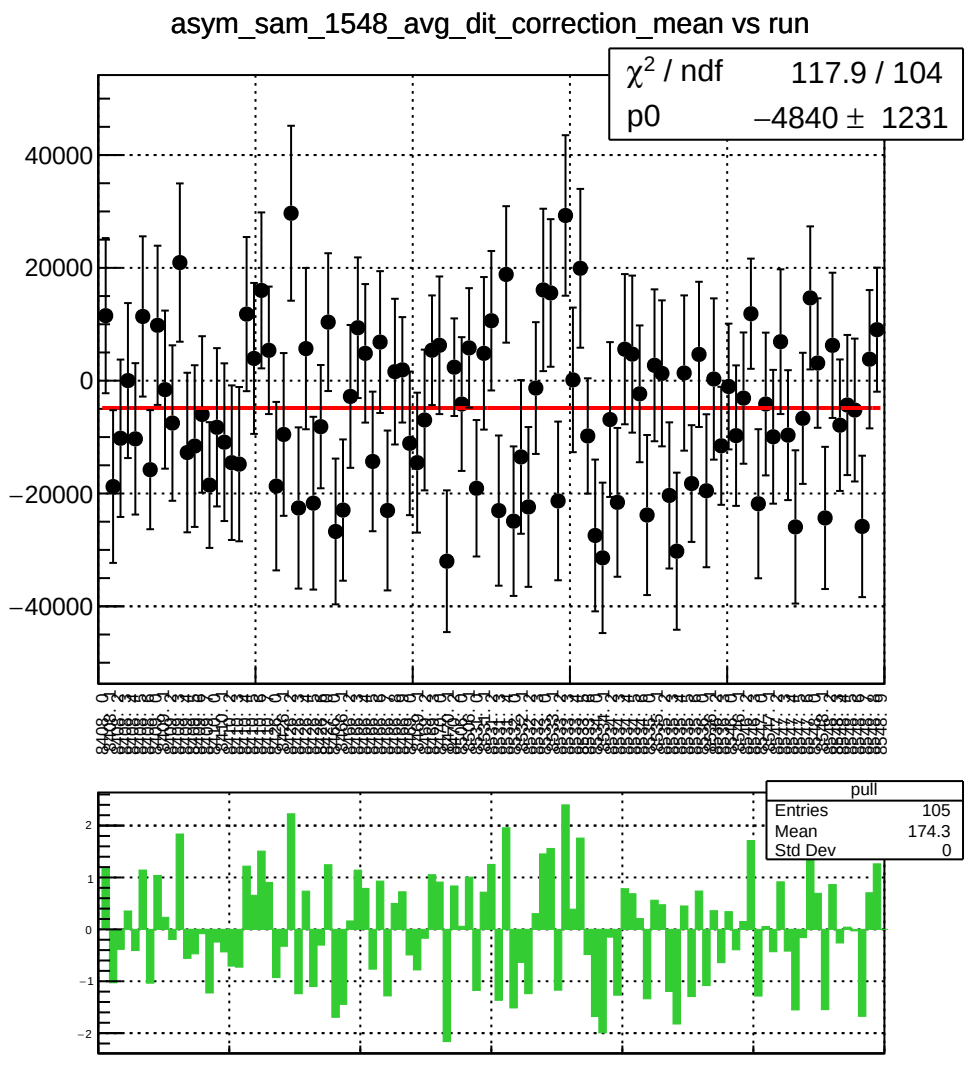

asym_sam_1548_avg_eigen_cor_correction_mean vs run
χ² / ndf 117.8 / 104
p0 −4658 ± 1200
40000
20000
0
−20000
−40000
pull
Entries 105
Mean 162.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

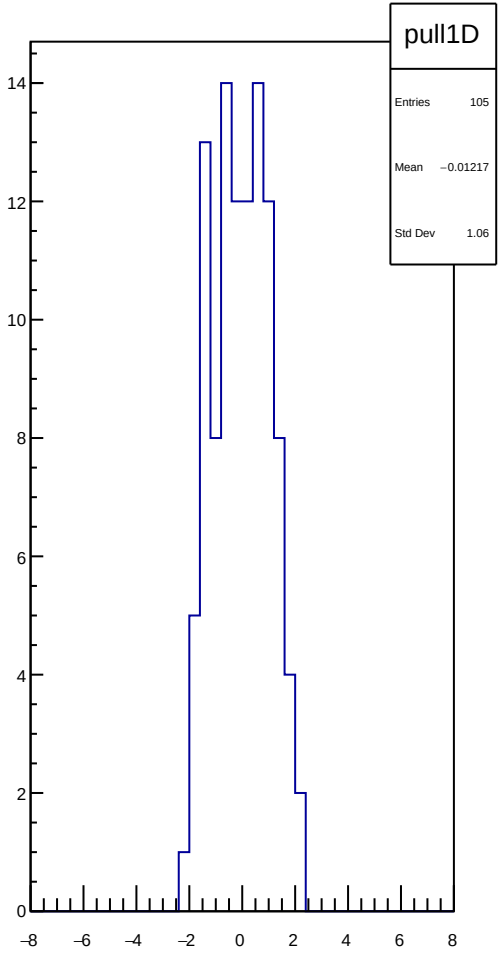

pull1D
Entries 105
Mean −0.01335
Std Dev 1.059
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

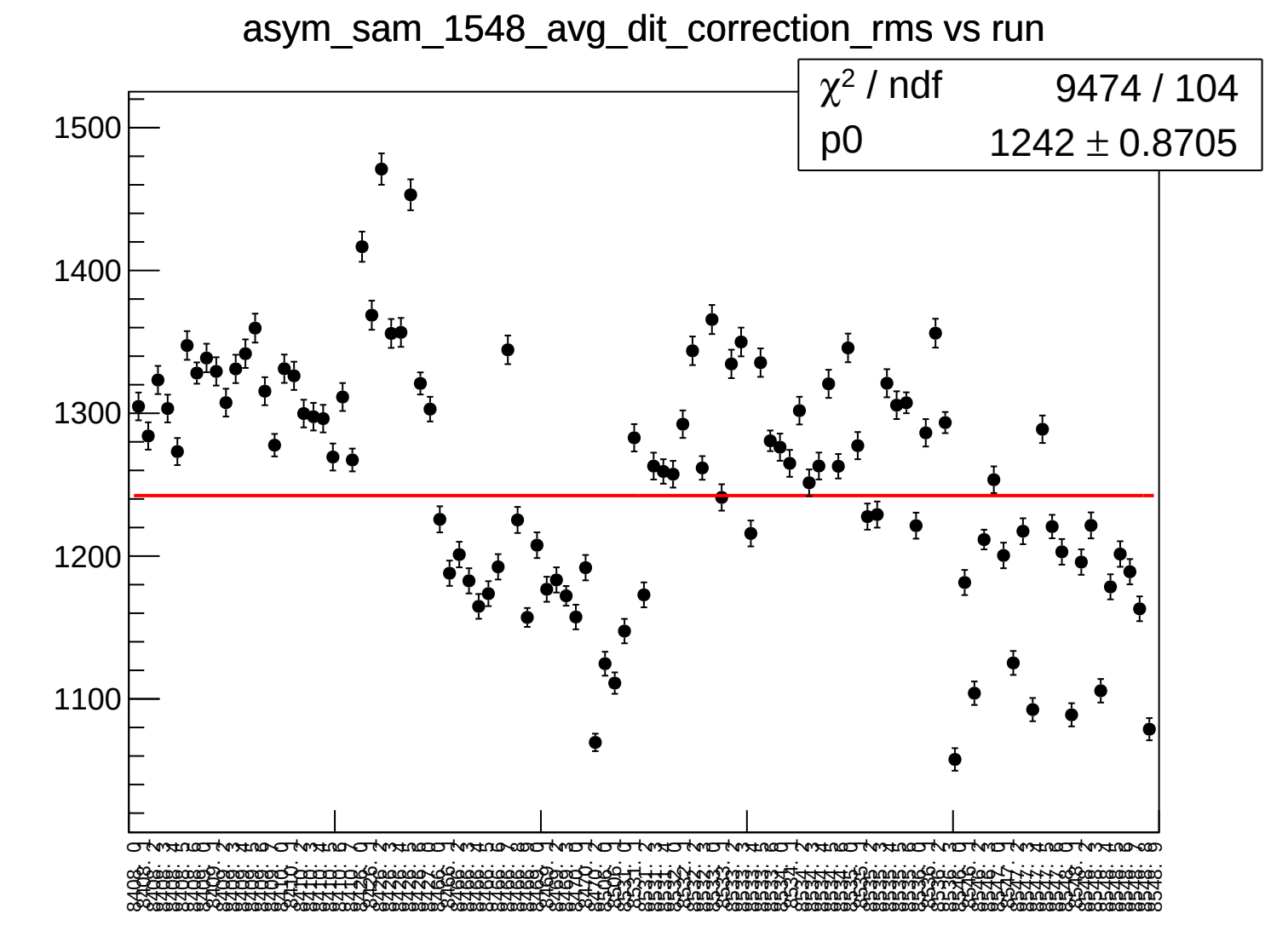

asym_sam_1548_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.159e+04 / 104
p0 1211 ± 0.8488
1400
1300
1200
1100
1000

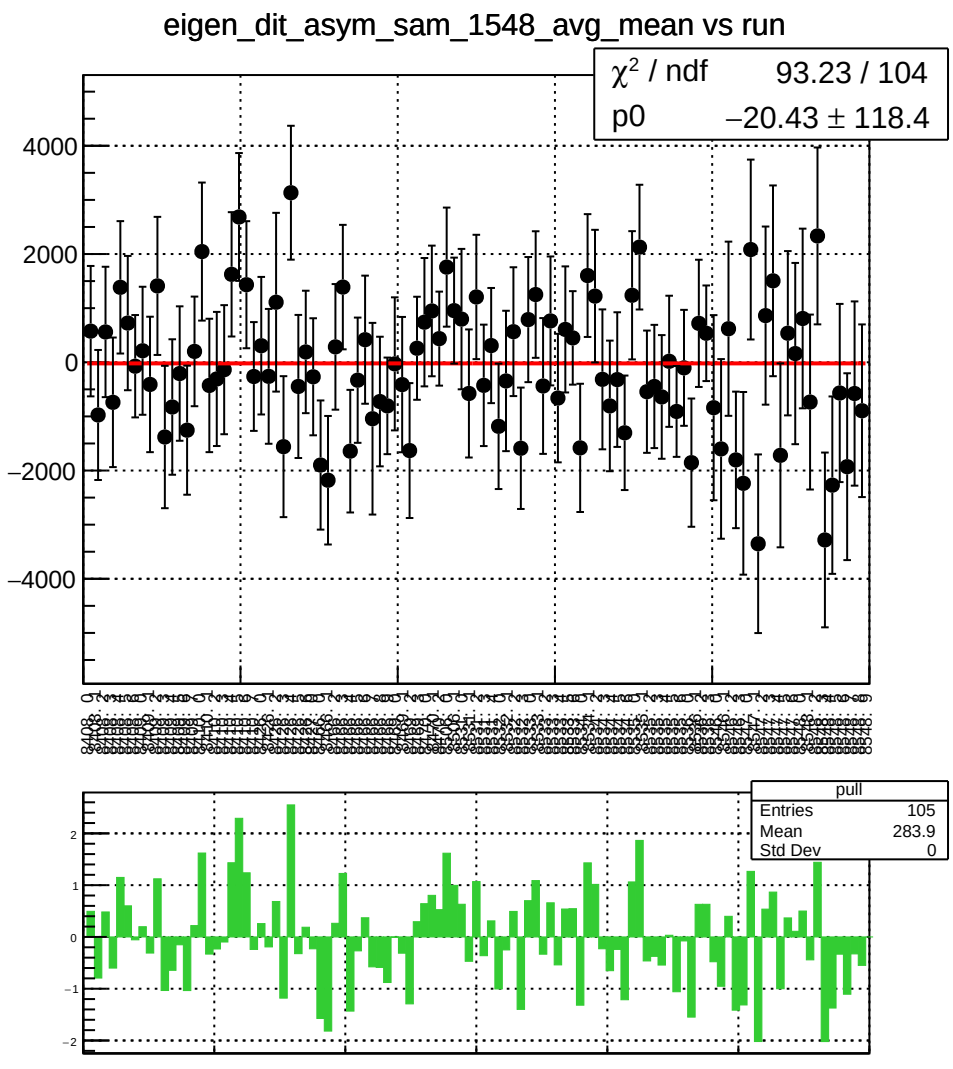

dit_asym_sam_1548_avg_mean vs run
χ² / ndf 93.23 / 104
p0 −20.44 ± 118.4
4000
2000
0
−2000
−4000
pull
Entries 105
Mean 283.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.02051
Std Dev 0.9421
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

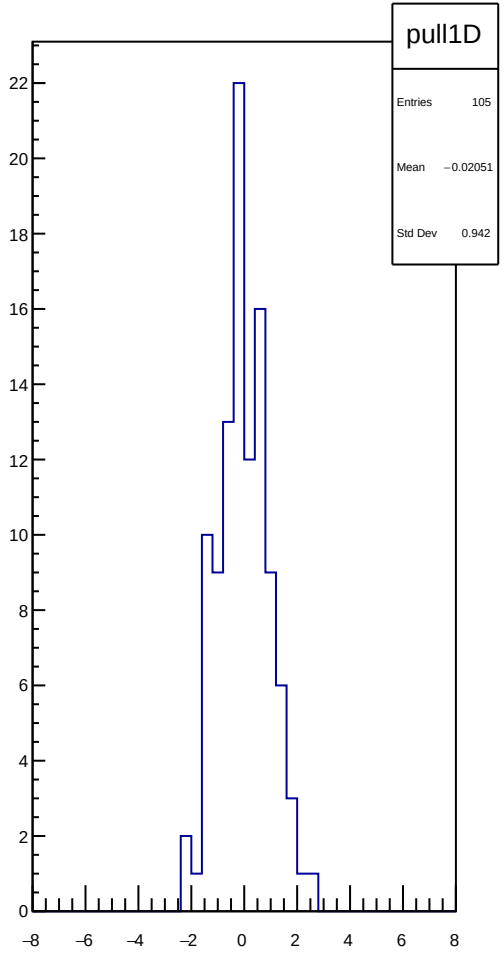

dit_asym_sam_1548_avg_rms vs run
χ^2 / ndf 3.469e+04 / 104
p0 118.8 ± 0.08375
170
160
150
140
130
120
110
100

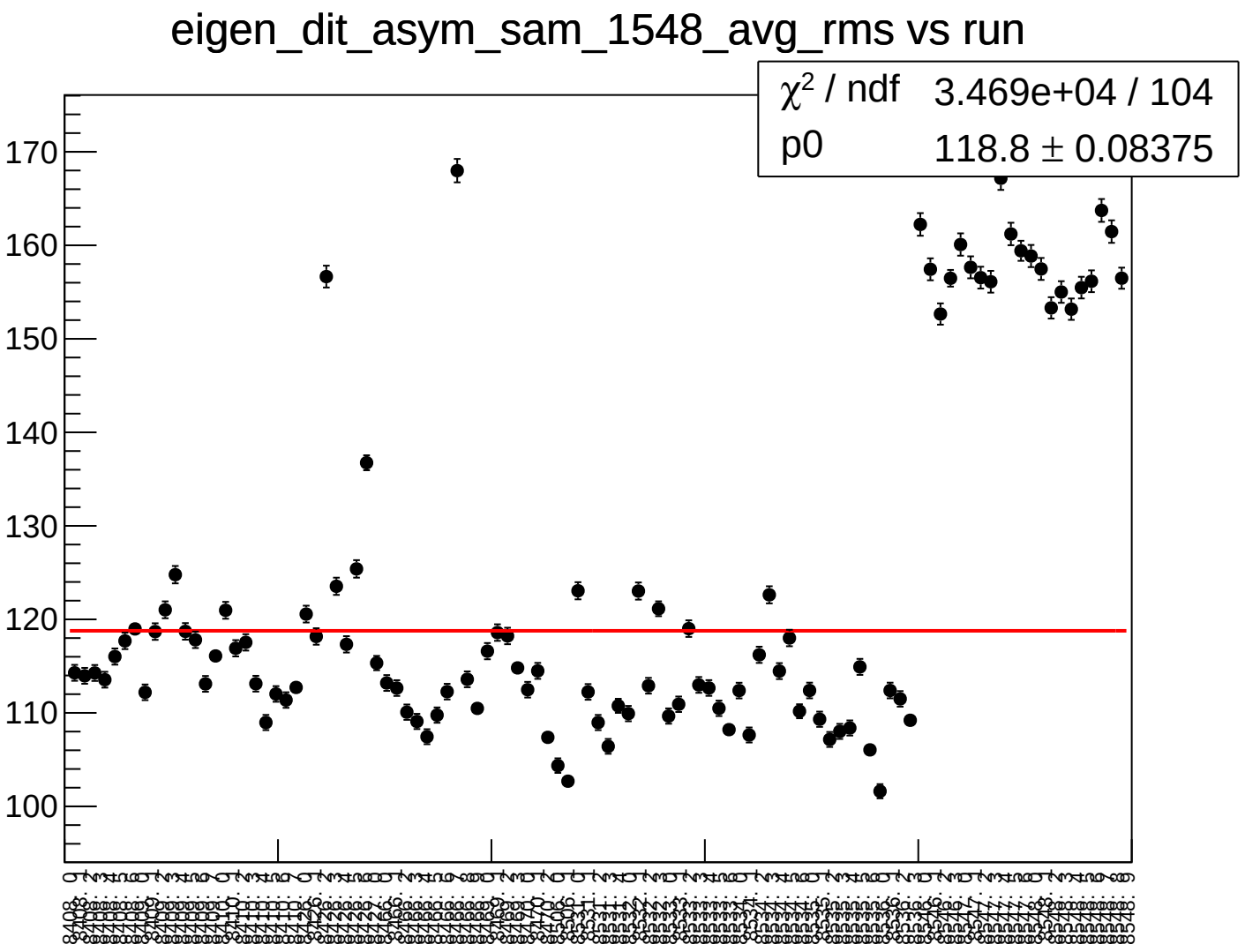

asym_sam_1548_avg_dit_correction_mean vs run
χ² / ndf 117.9 / 104
p0 −4840 ± 1231
40000
20000
0
−20000
−40000
pull
Entries 105
Mean 174.3
Std Dev 0
2
1
0
−1
−2

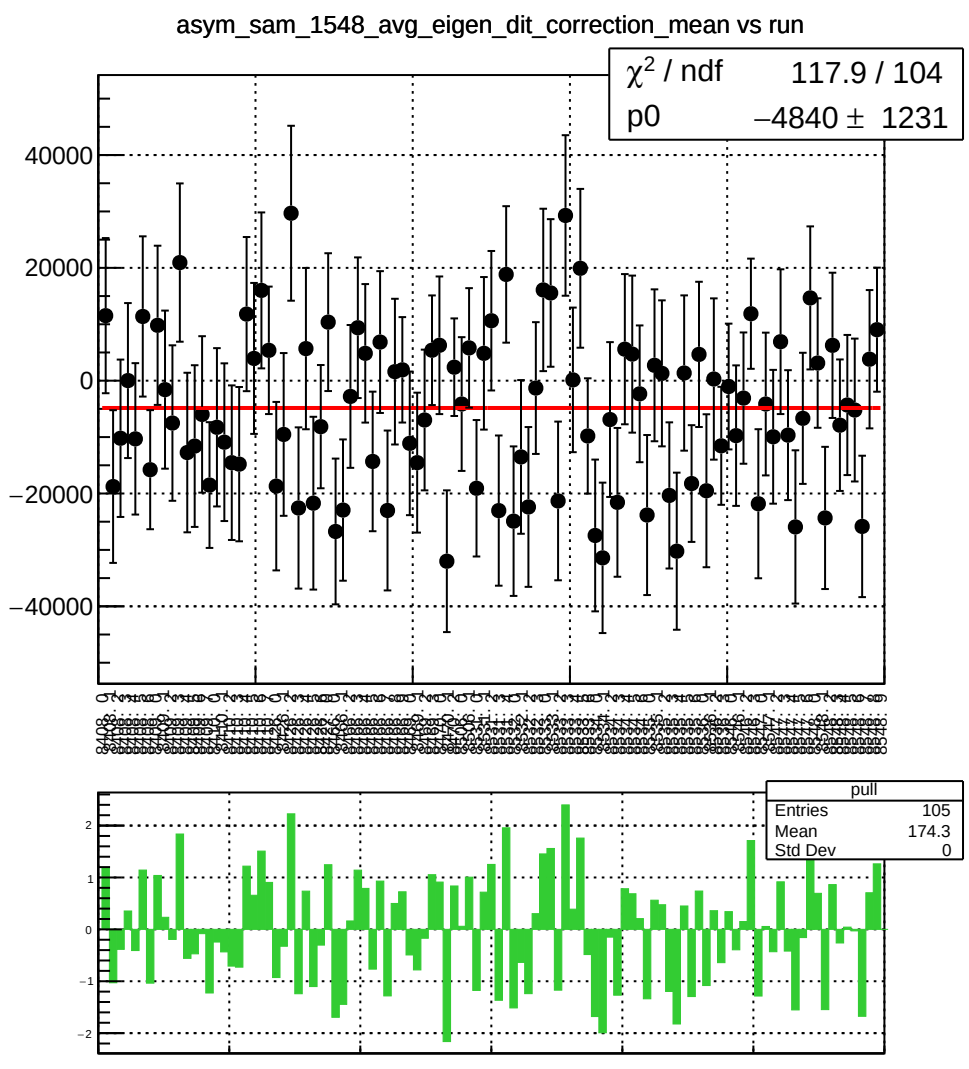

pull1D
Entries 105
Mean −0.01217
Std Dev 1.06
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

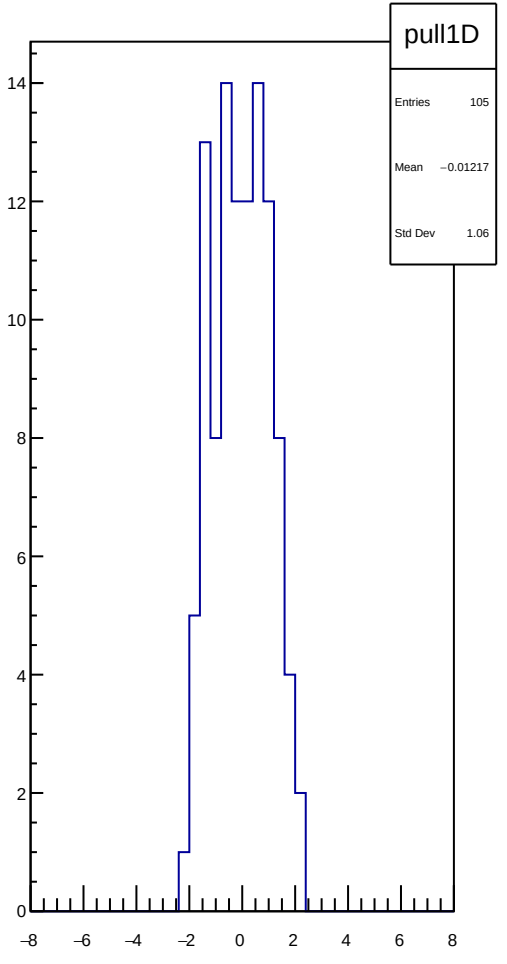

asym_sam_1548_avg_dit_correction_rms vs run
χ² / ndf 9474 / 104
p0 1242 ± 0.8705
1500
1400
1300
1200
1100

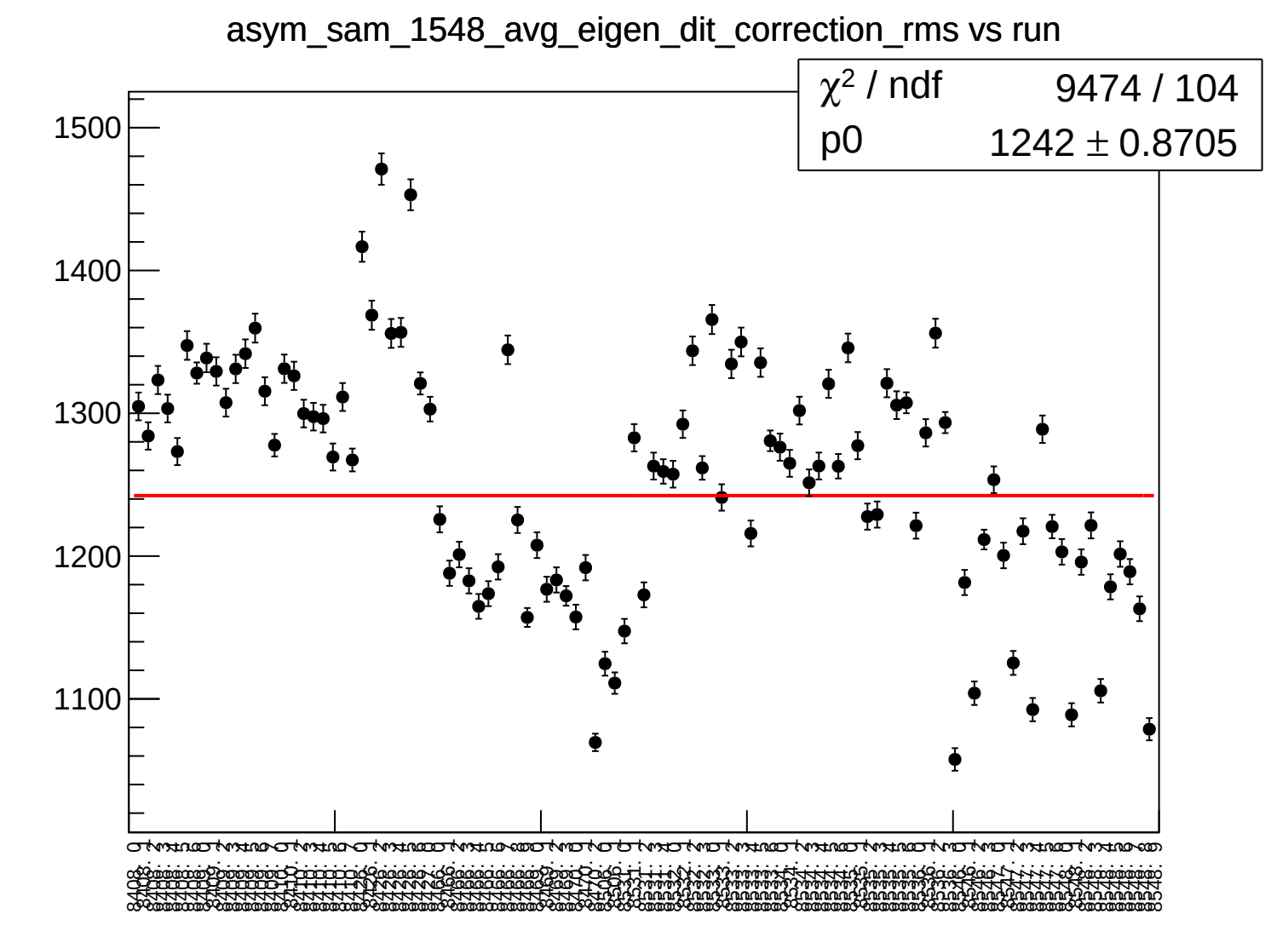

eigen_dit_asym_sam_1548_avg_mean vs run
χ² / ndf 93.23 / 104
p0 −20.43 ± 118.4
4000
2000
0
−2000
−4000
pull
Entries 105
Mean 283.9
Std Dev 0
2
1
0
−1
−2

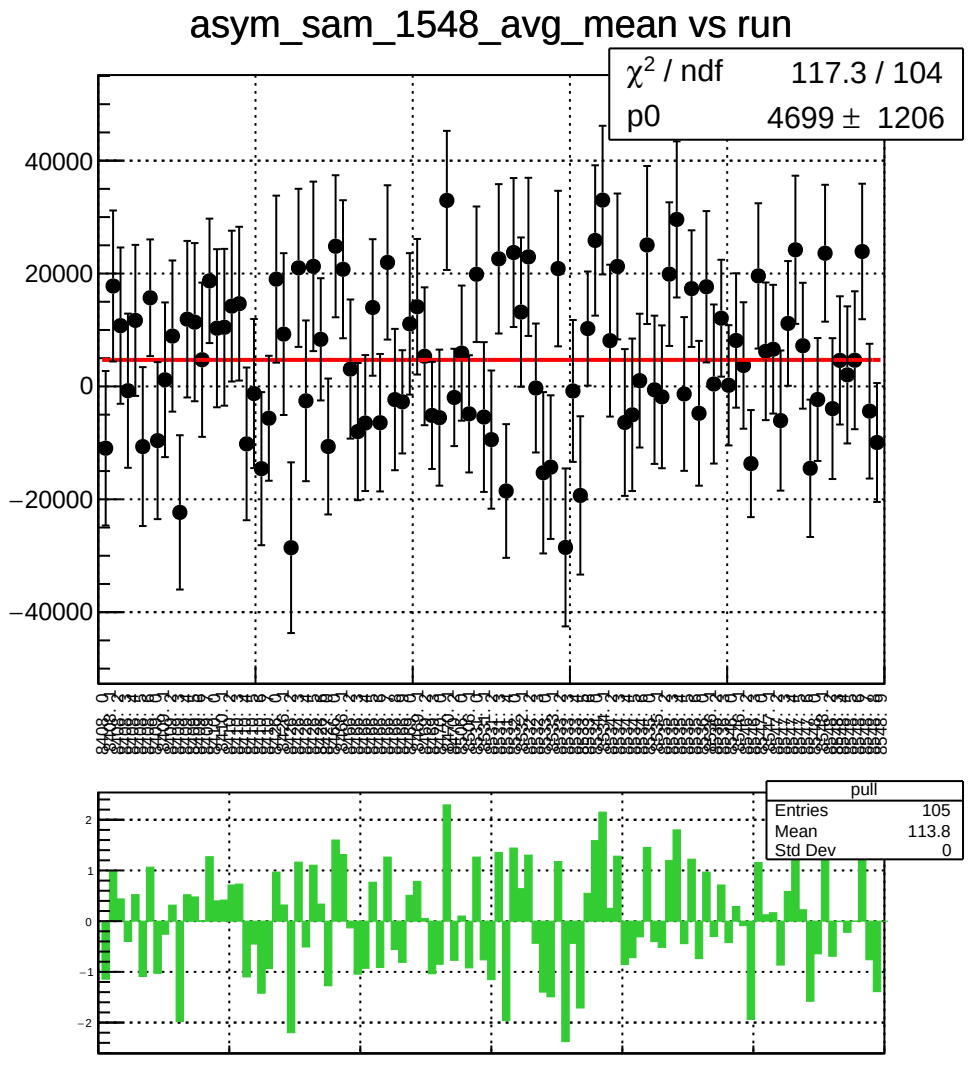

pull1D
Entries 105
Mean −0.02051
Std Dev 0.942
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

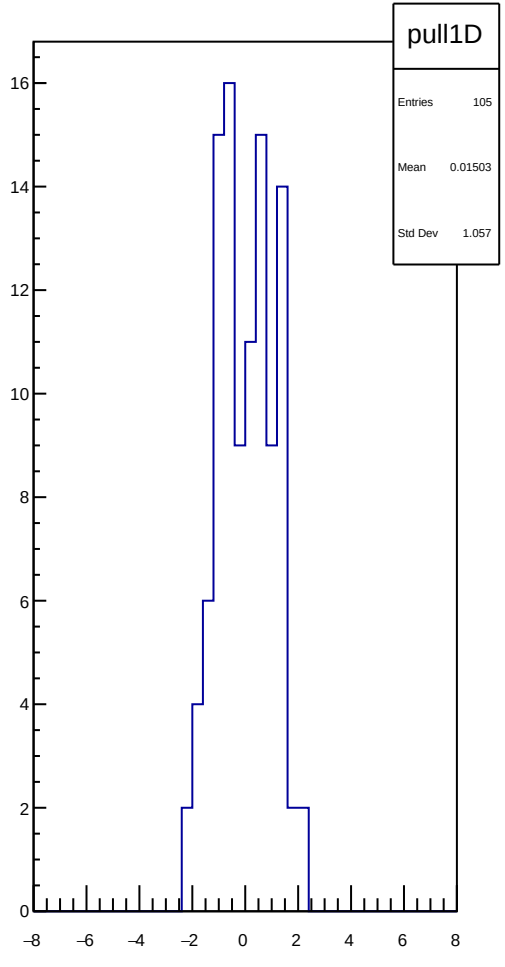

eigen_dit_asym_sam_1548_avg_rms vs run
χ^2 / ndf 3.469e+04 / 104
p0 118.8 ± 0.08375
170
160
150
140
130
120
110
100

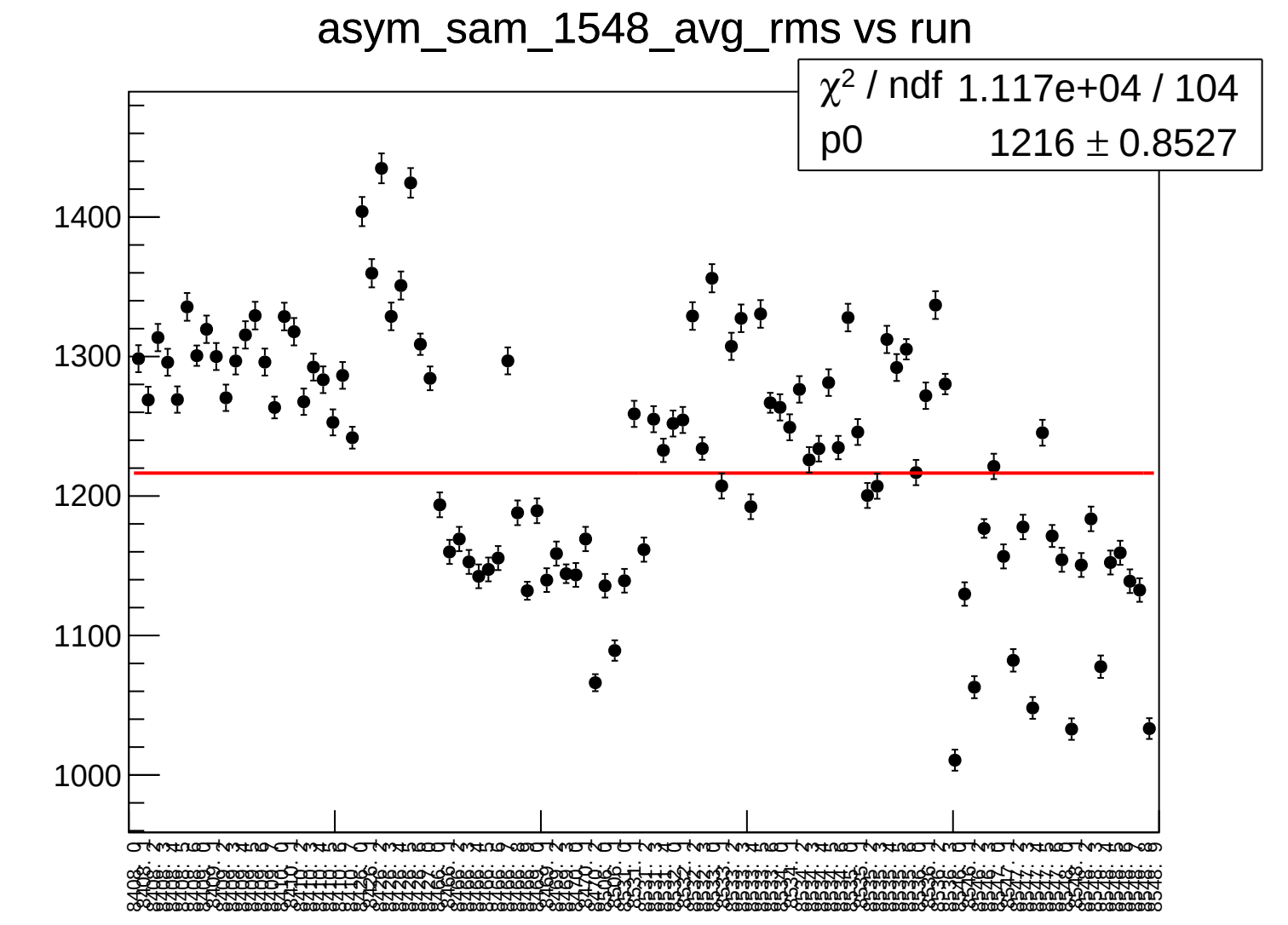

asym_sam_1548_avg_eigen_dit_correction_mean vs run
χ² / ndf 117.9 / 104
p0 −4840 ± 1231
40000
20000
0
−20000
−40000
pull
Entries 105
Mean 174.3
Std Dev 0
2
1
0
−1
−2

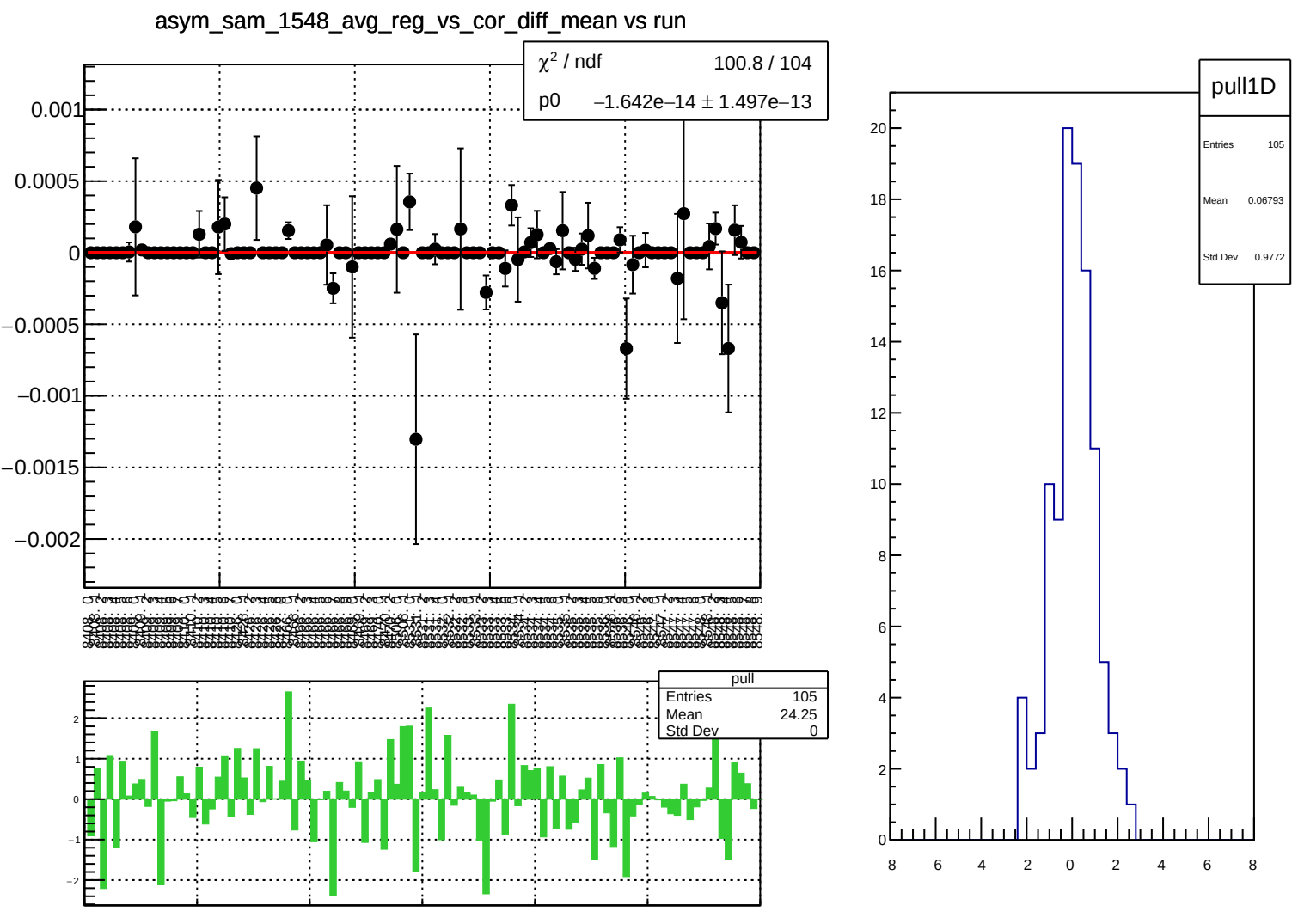

pull1D
Entries 105
Mean −0.01217
Std Dev 1.06
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

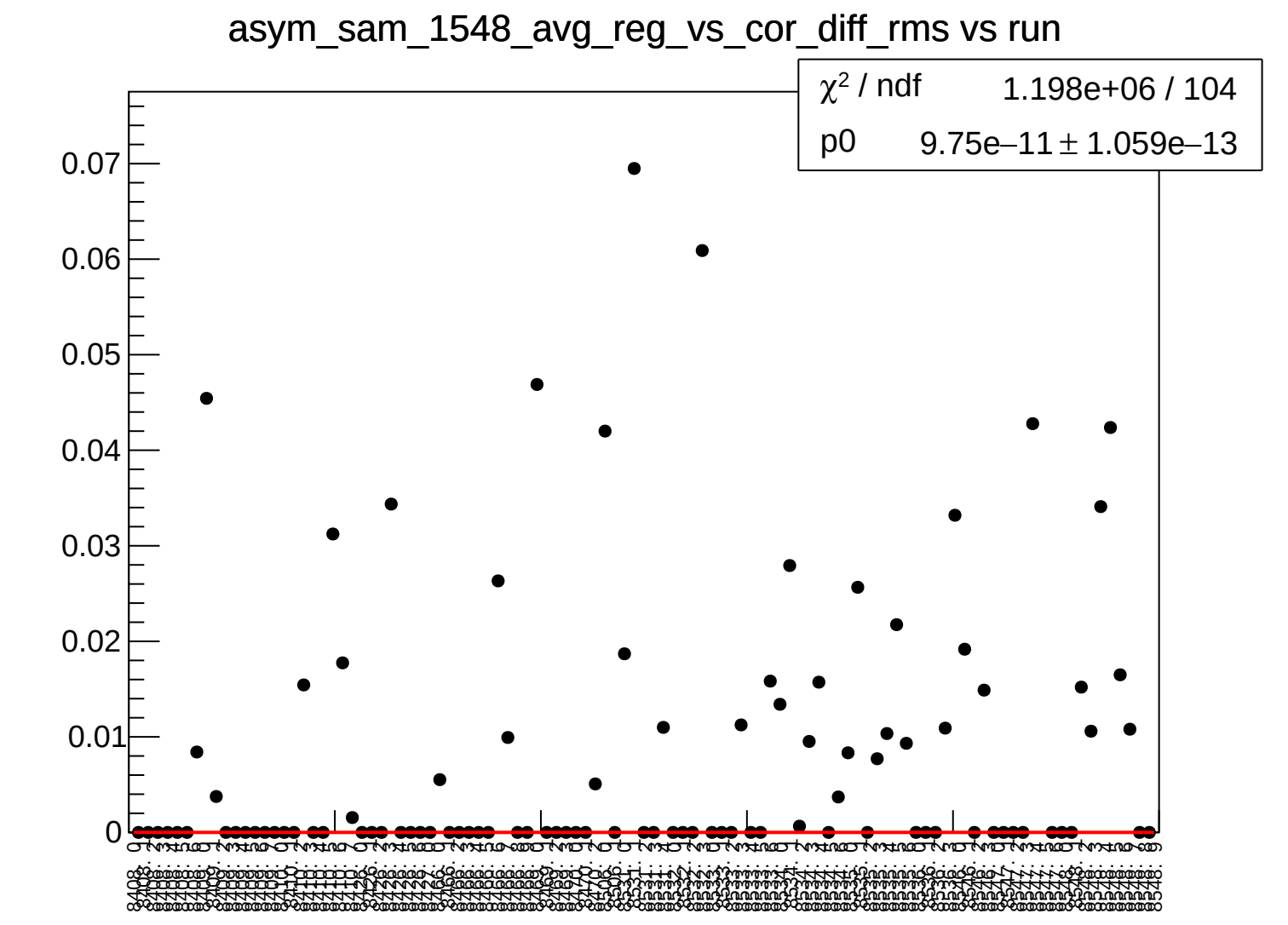

asym_sam_1548_avg_eigen_dit_correction_rms vs run
χ² / ndf 9474 / 104
p0 1242 ± 0.8705
1500
1400
1300
1200
1100

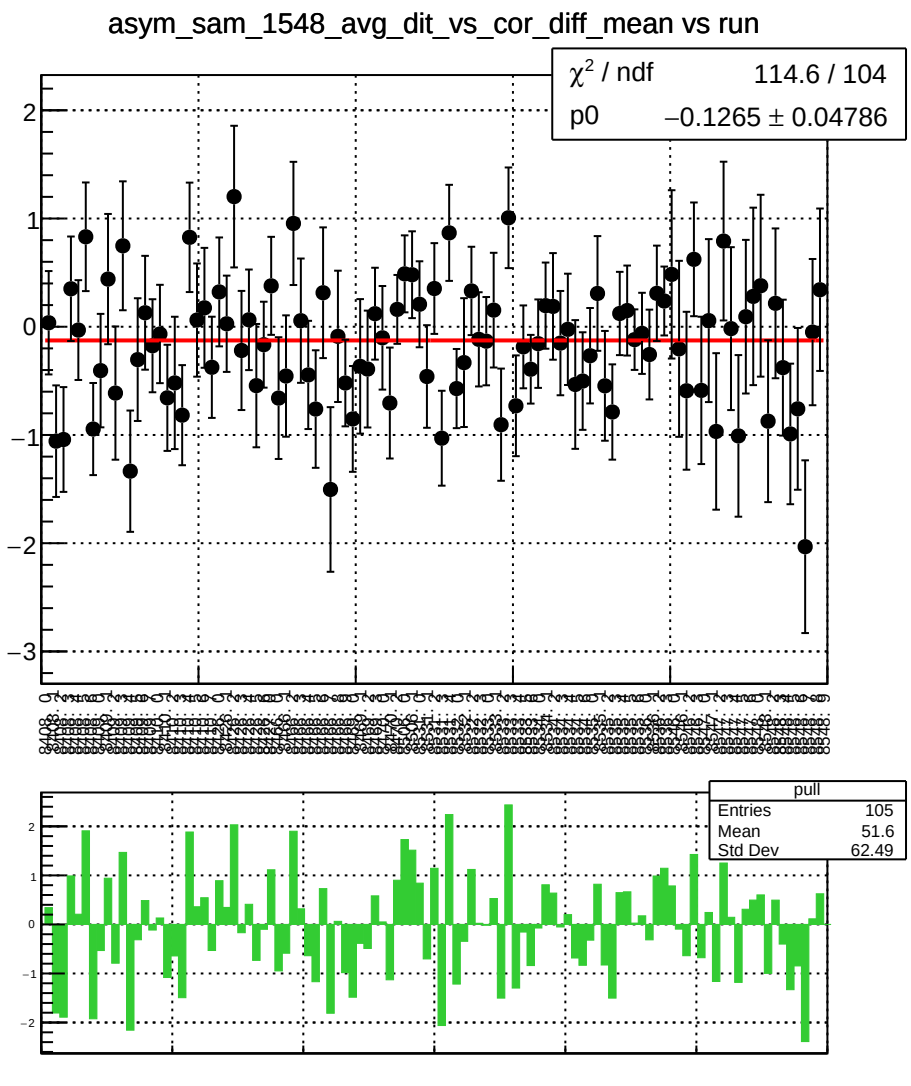

asym_sam_1548_avg_mean vs run
χ² / ndf 117.3 / 104
p0 4699 ± 1206
40000
20000
0
−20000
−40000
pull
Entries 105
Mean 113.8
Std Dev 0
2
1
0
−1
−2

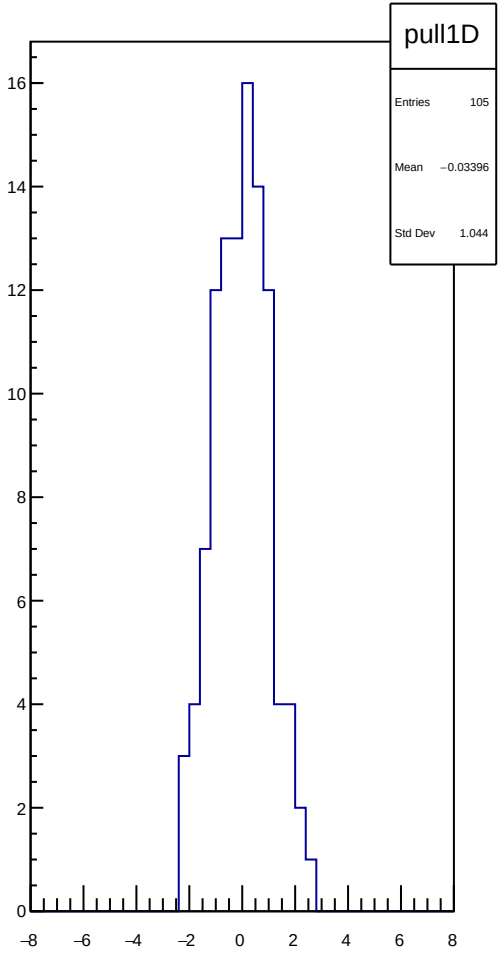

pull1D
Entries 105
Mean 0.01503
Std Dev 1.057
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

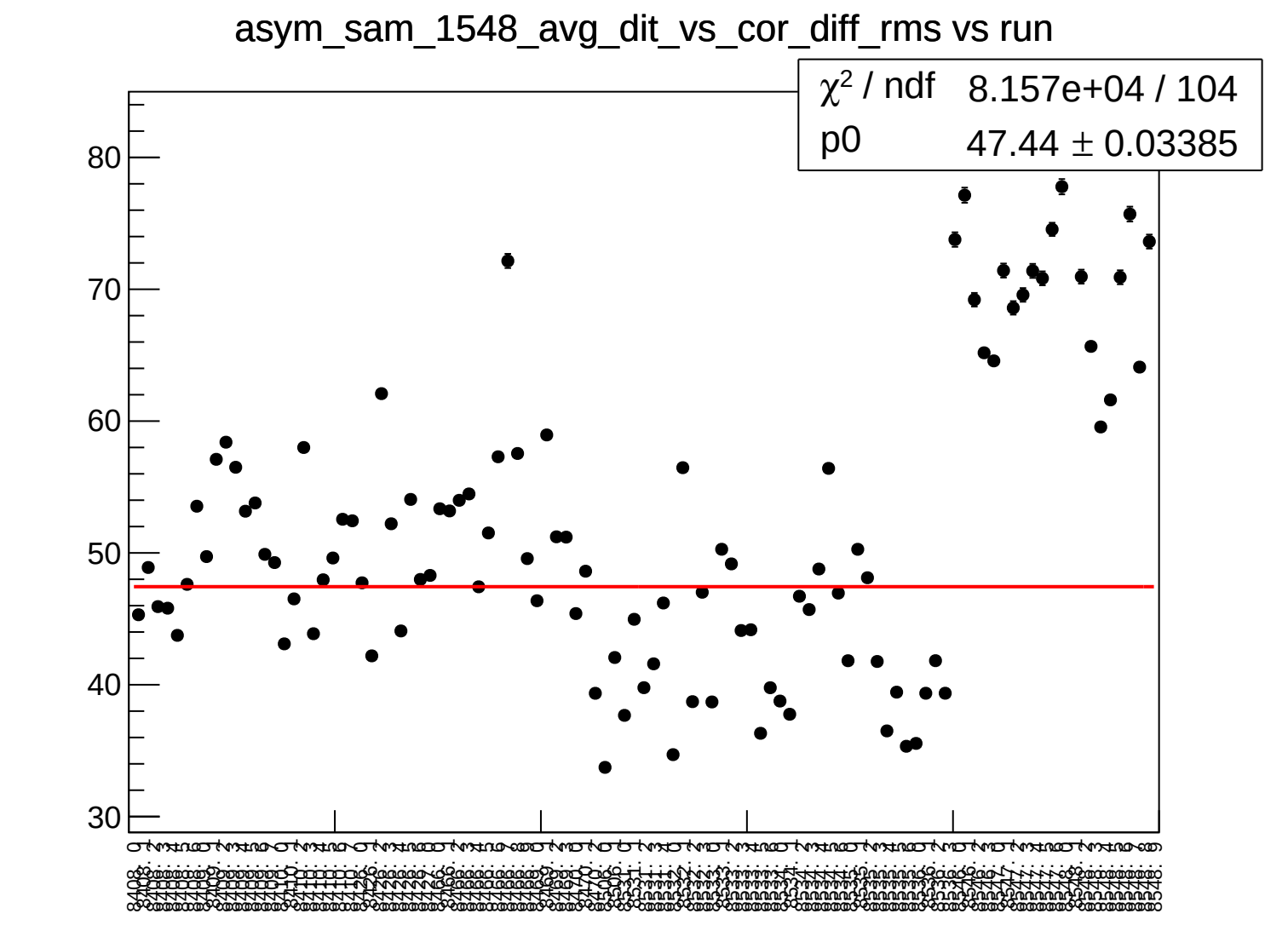

asym_sam_1548_avg_rms vs run
χ² / ndf 1.117e+04 / 104
p0 1216 ± 0.8527
1400
1300
1200
1100
1000


asym_sam_1548_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 100.8 / 104
p0 −1.642e−14 ± 1.497e−13
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 105
Mean 24.25
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.06793
Std Dev 0.9772
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

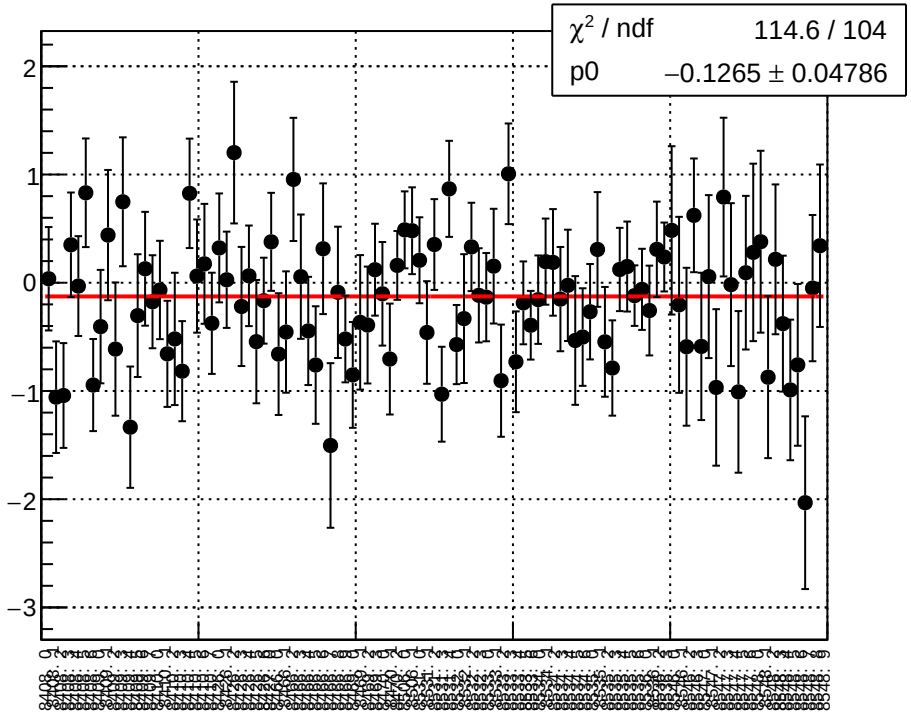

asym_sam_1548_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.198e+06 / 104
p0 9.75e−11 ± 1.059e−13
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

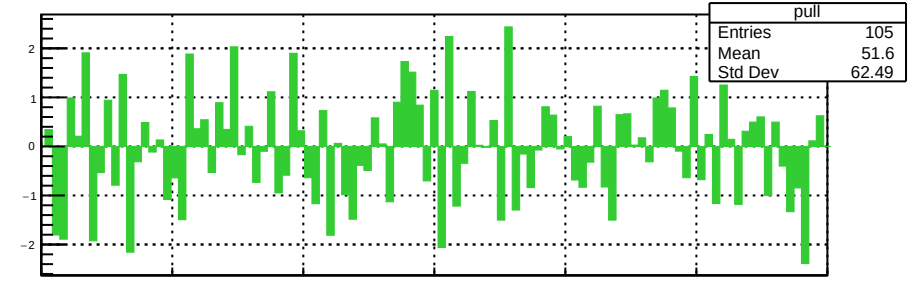

asym_sam_1548_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 114.6 / 104
p0 −0.1265 ± 0.04786
pull
Entries 105
Mean 51.6
Std Dev 62.49

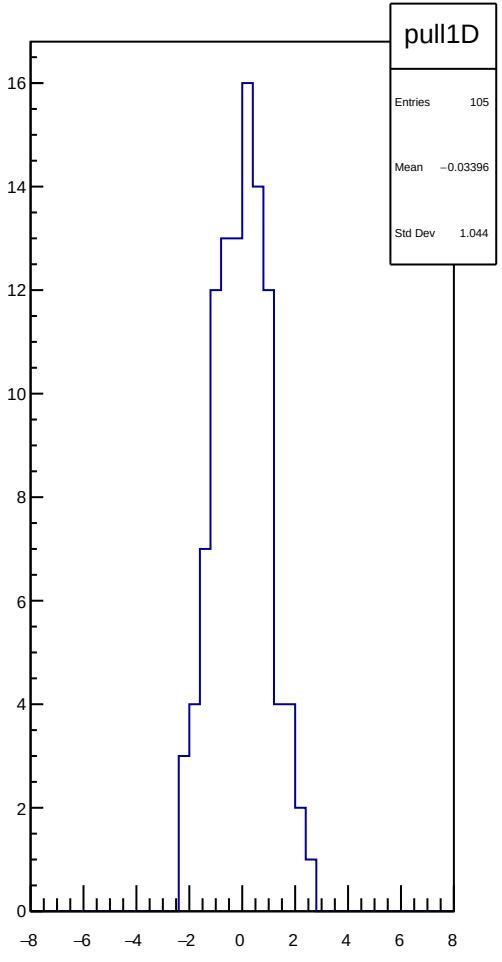

pull1D
Entries 105
Mean −0.03396
Std Dev 1.044

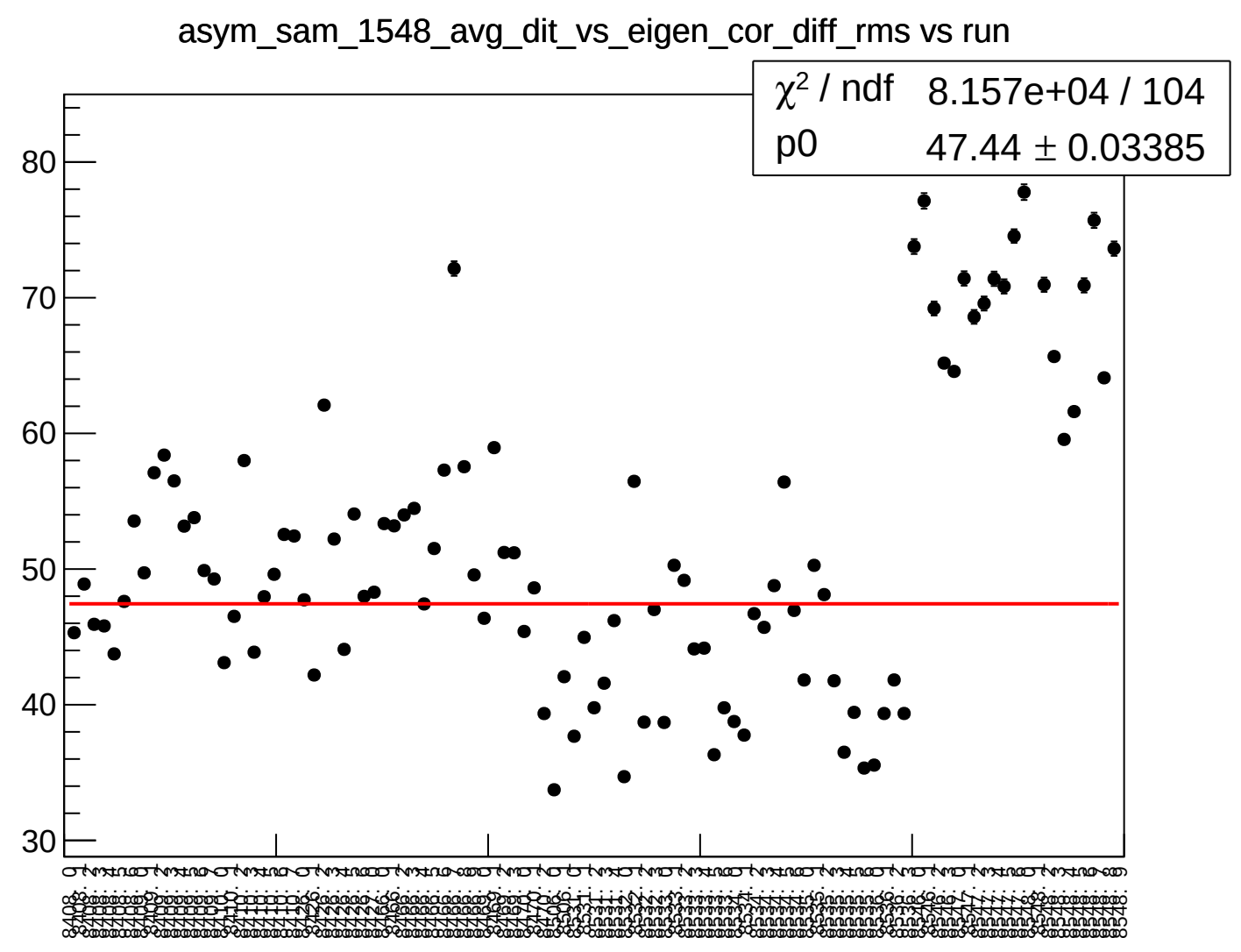

asym_sam_1548_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 8.157e+04 / 104
p0 47.44 ± 0.03385
80
70
60
50
40
30

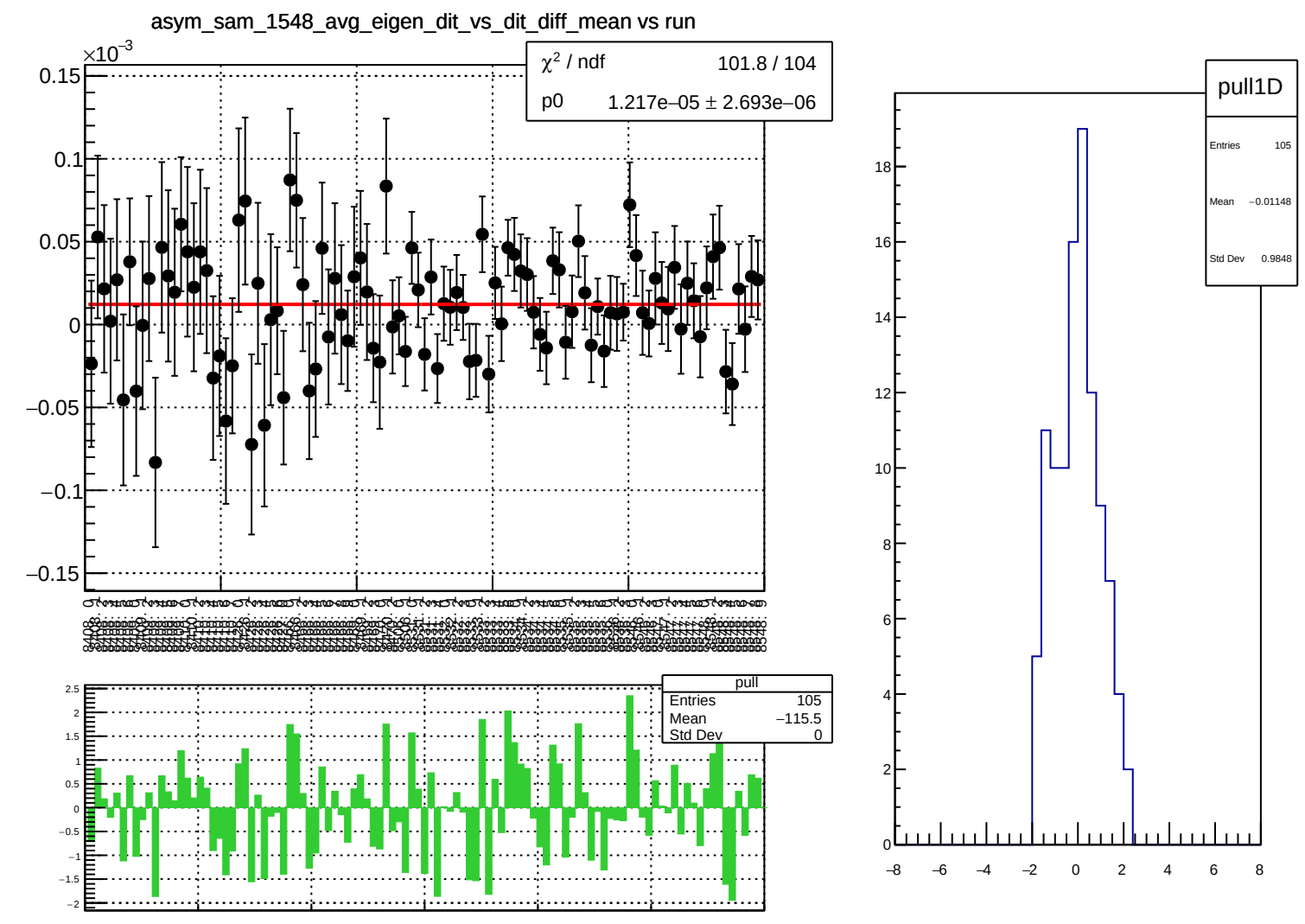
asym_sam_1548_avg_dit_vs_eigen_cor_diff_mean vs run

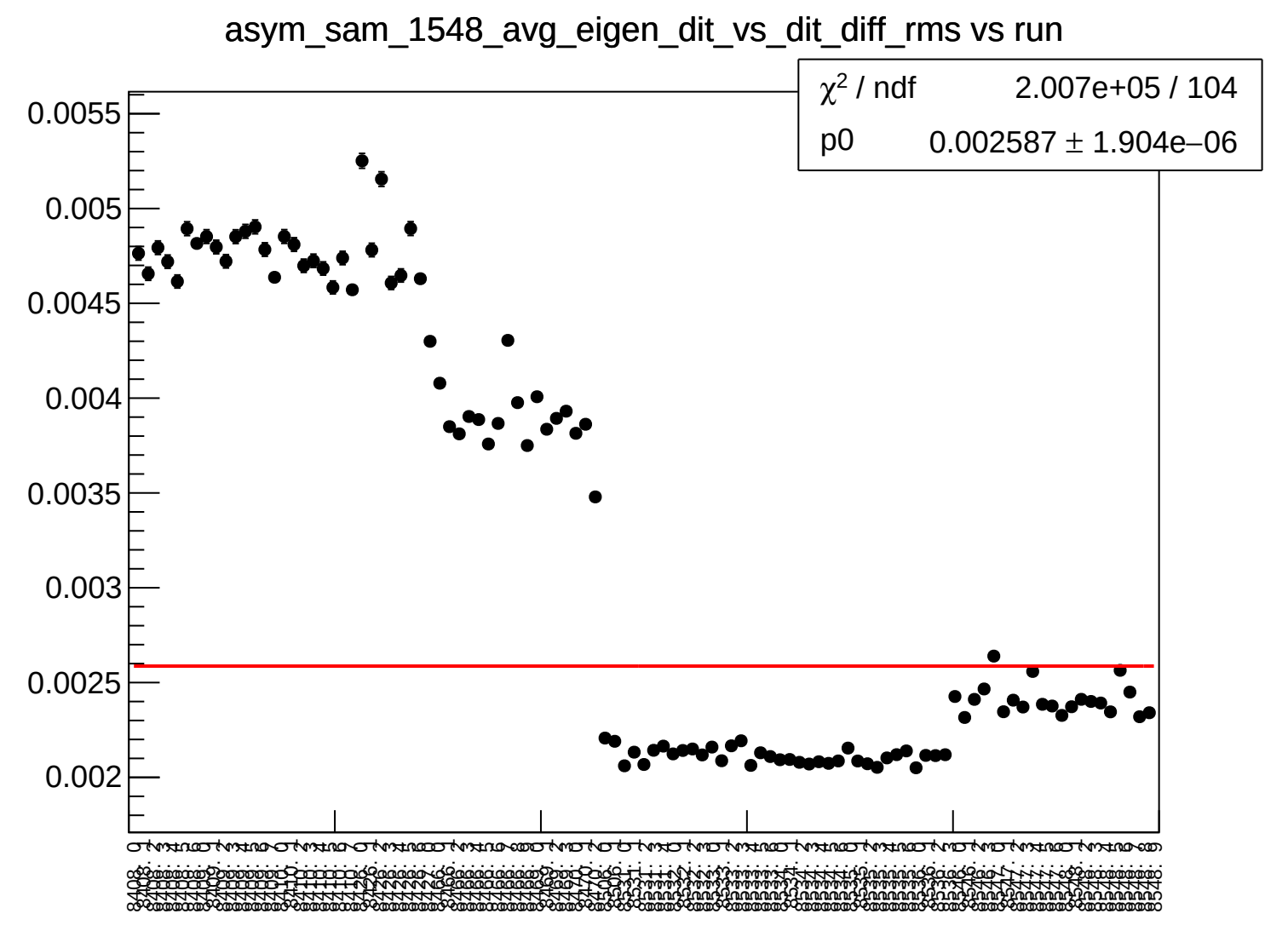


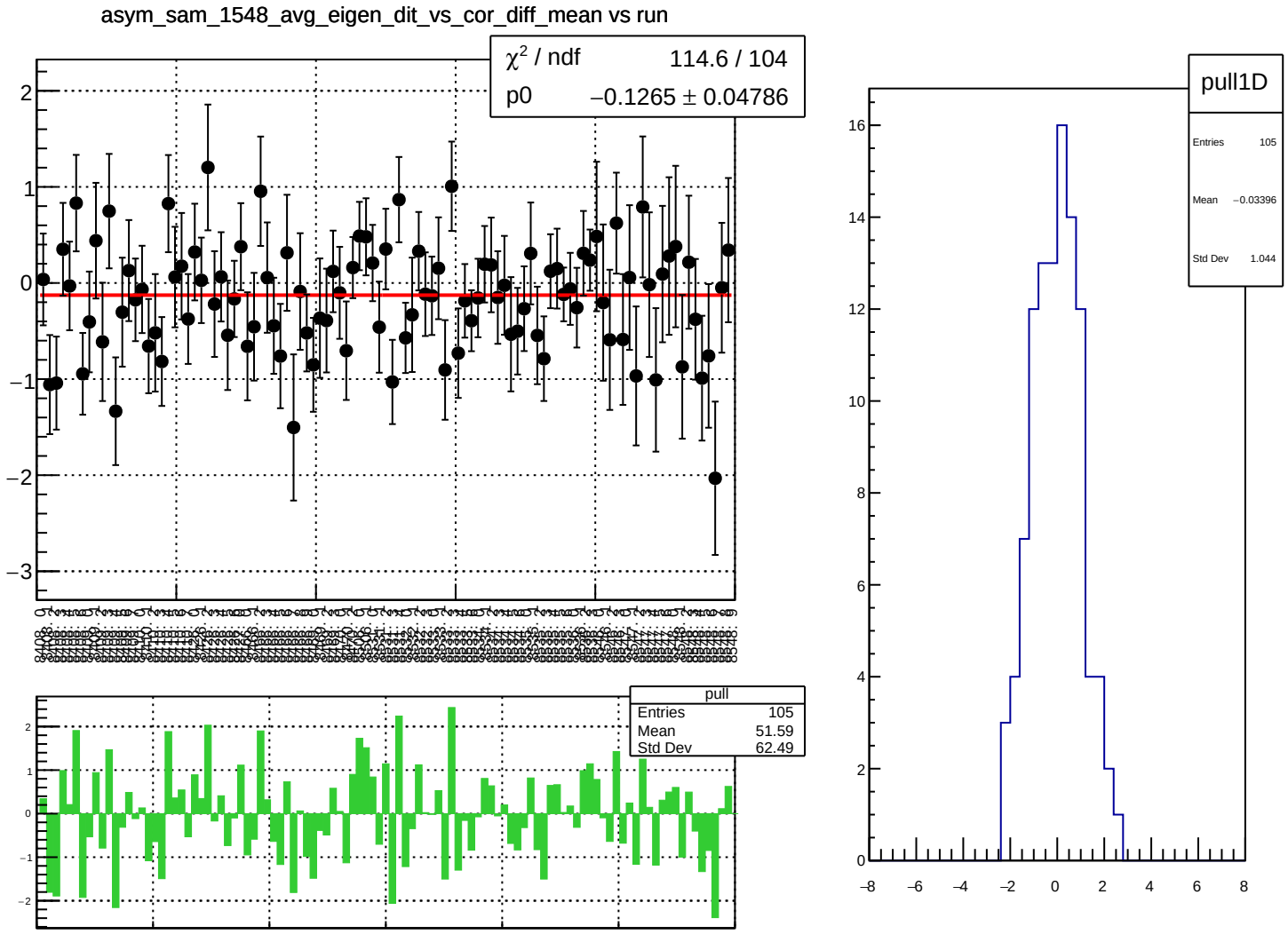


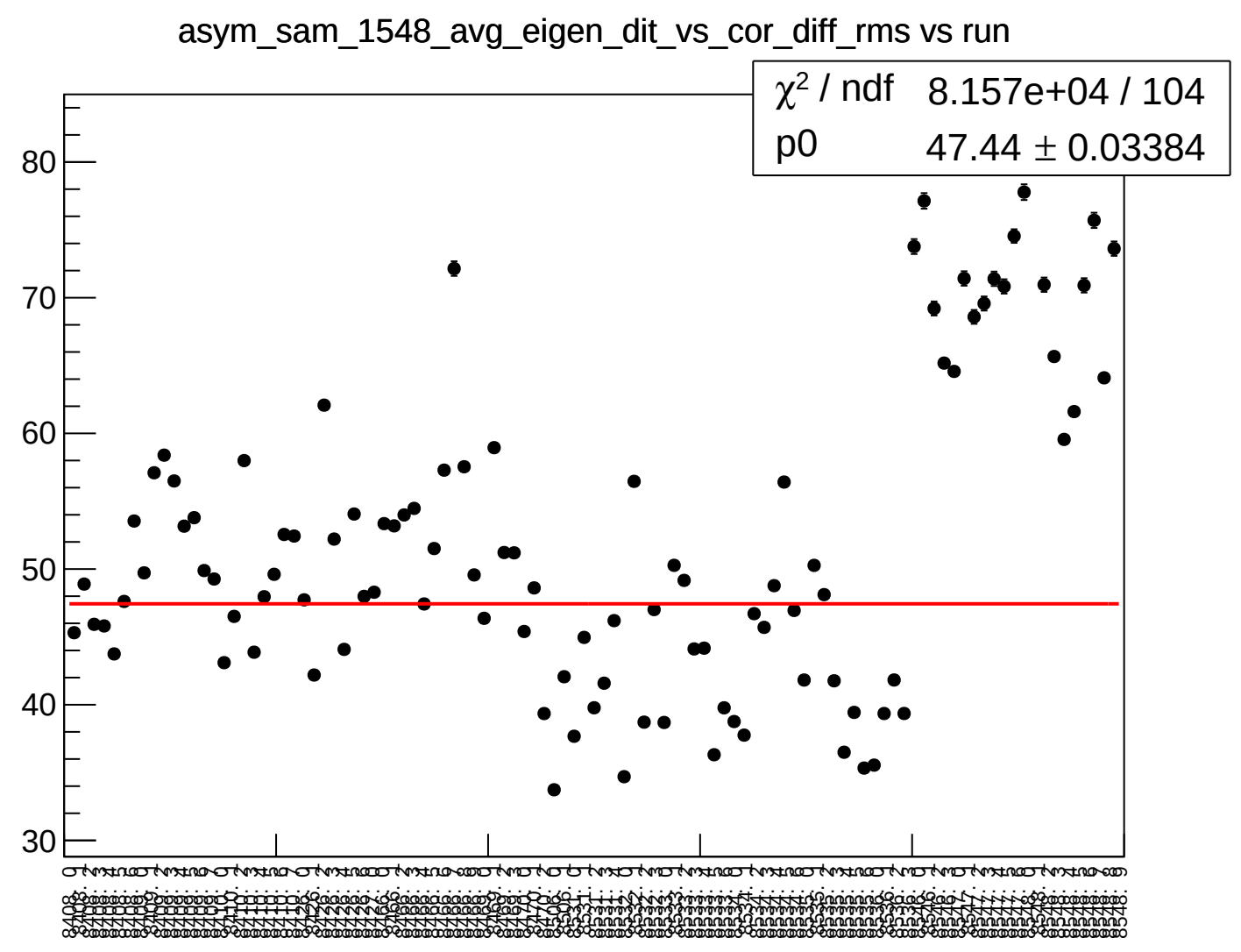


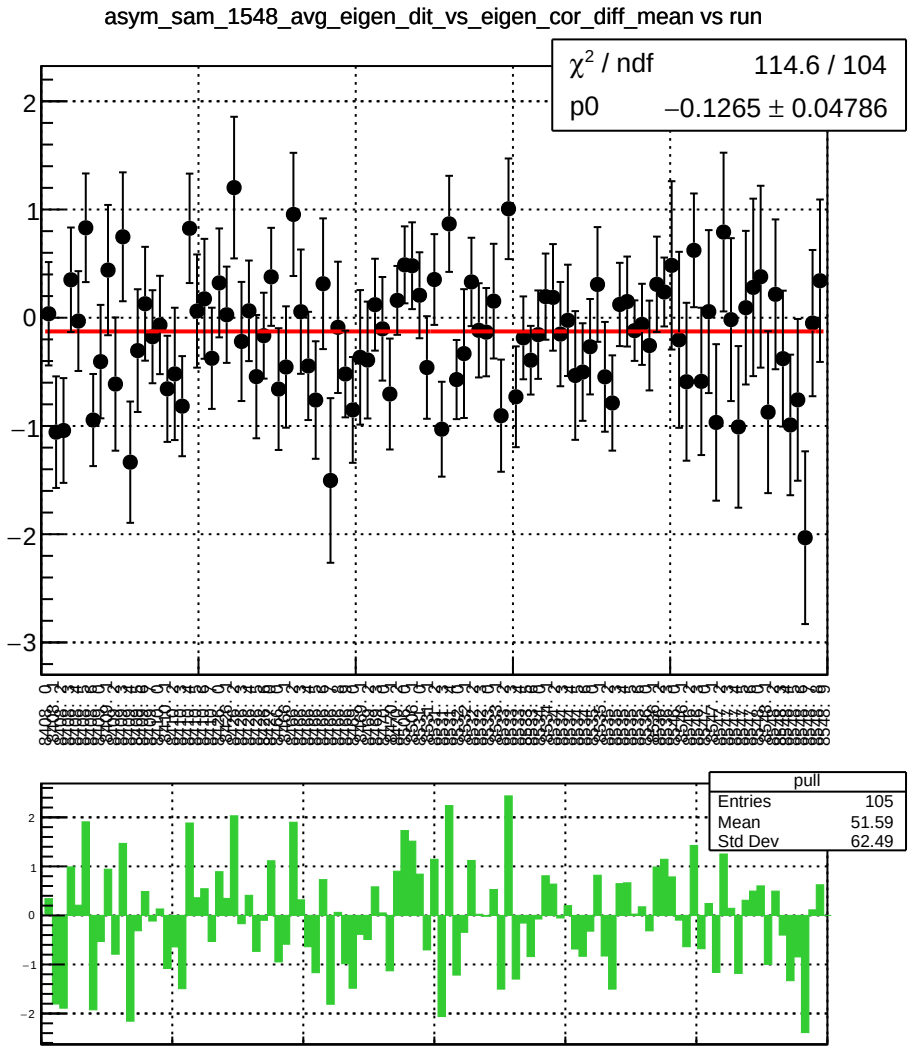

asym_sam_1548_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.157e+04 / 104
p0 47.44 ± 0.03385
80
70
60
50
40
30

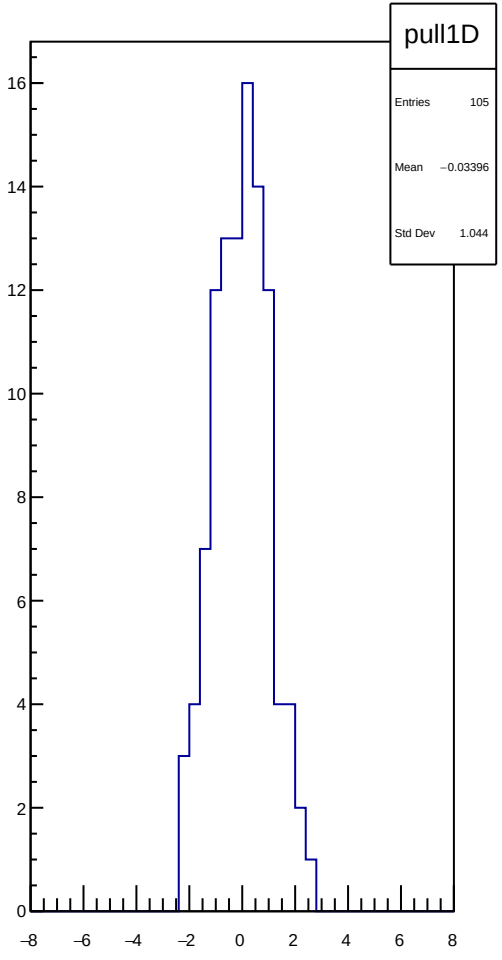

asym_sam_1548_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 101.8 / 104
p0 1.217e−05 ± 2.693e−06
pull
Entries 105
Mean −115.5
Std Dev 0
pull1D
Entries 105
Mean −0.01148
Std Dev 0.9848

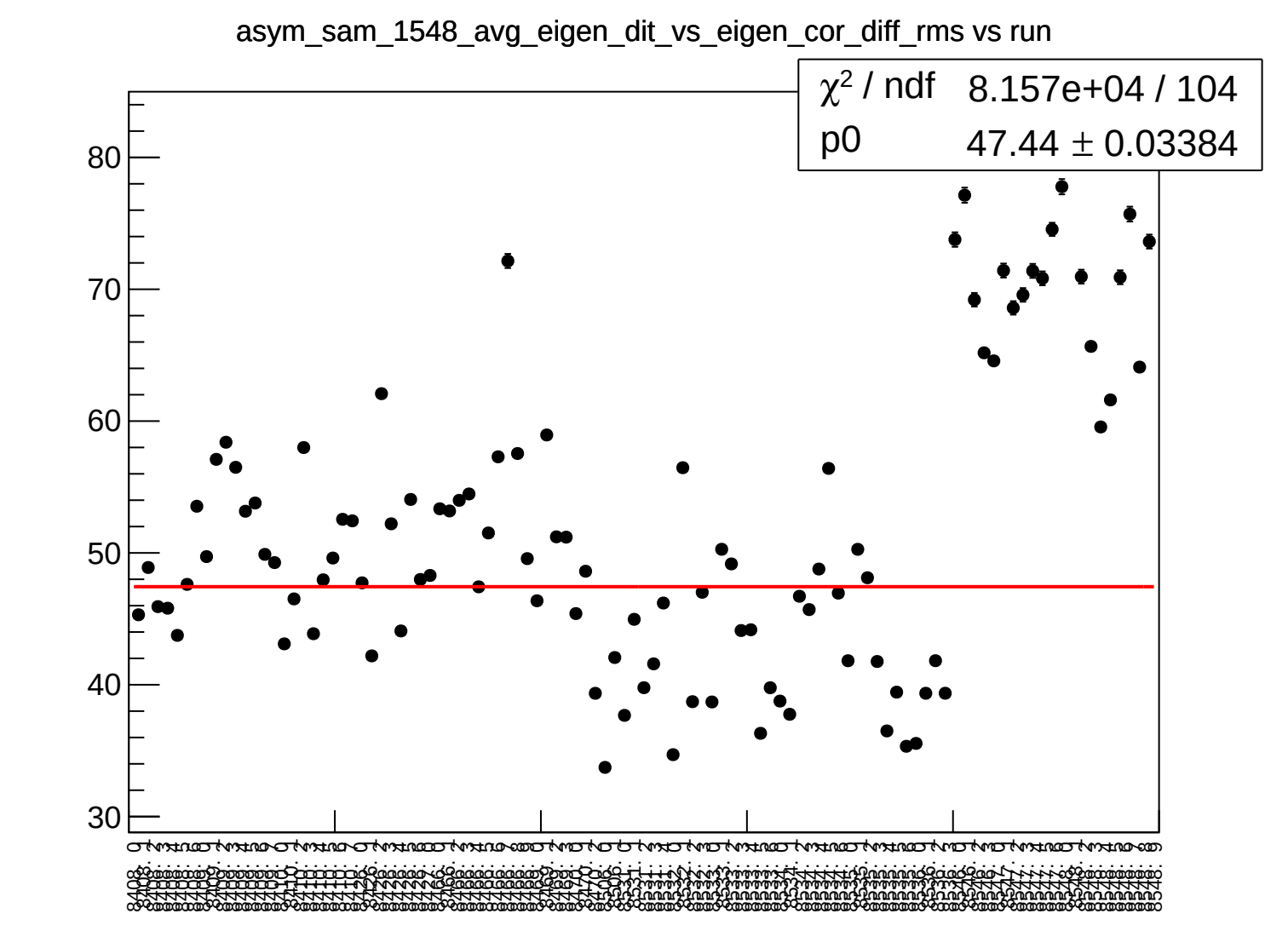

asym_sam_1548_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.007e+05 / 104
p0 0.002587 ± 1.904e−06
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002

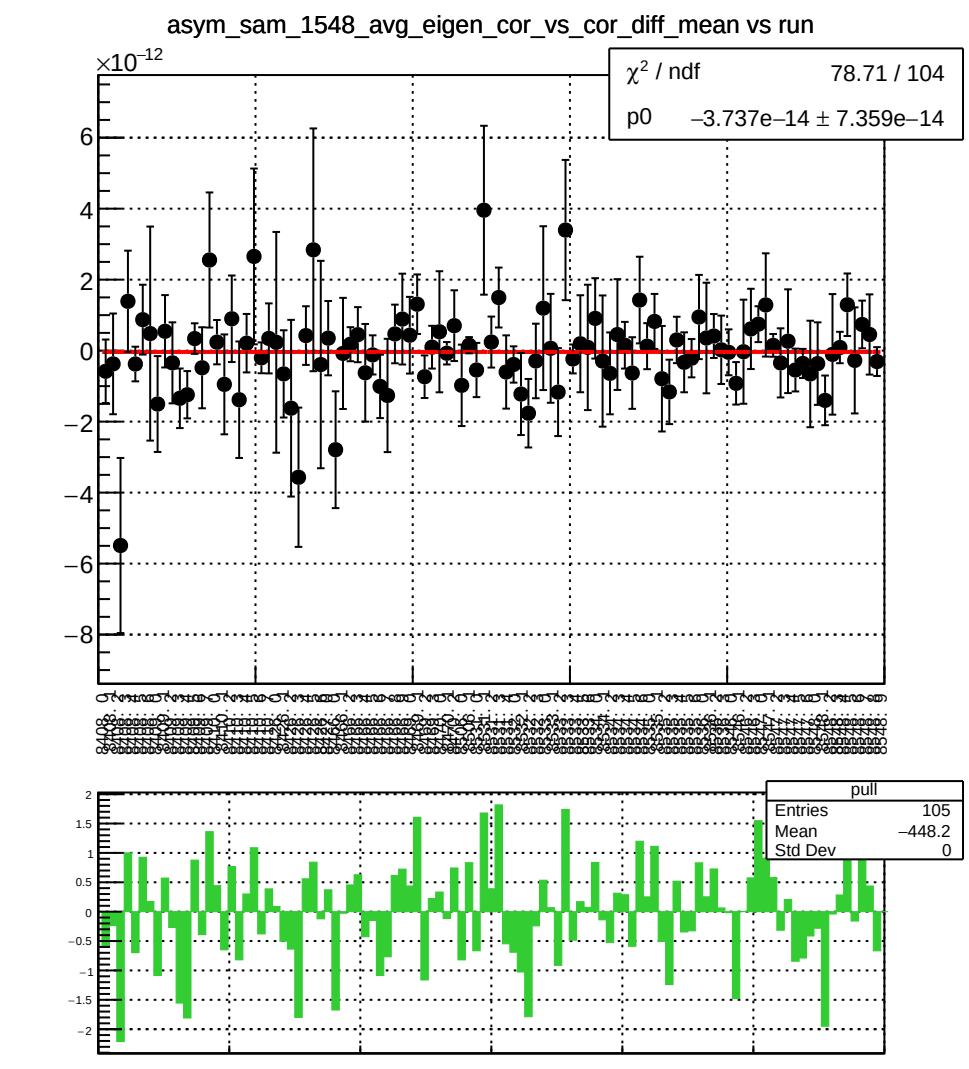

asym_sam_1548_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 114.6 / 104
p0 −0.1265 ± 0.04786
pull
Entries 105
Mean 51.59
Std Dev 62.49
pull1D
Entries 105
Mean −0.03396
Std Dev 1.044

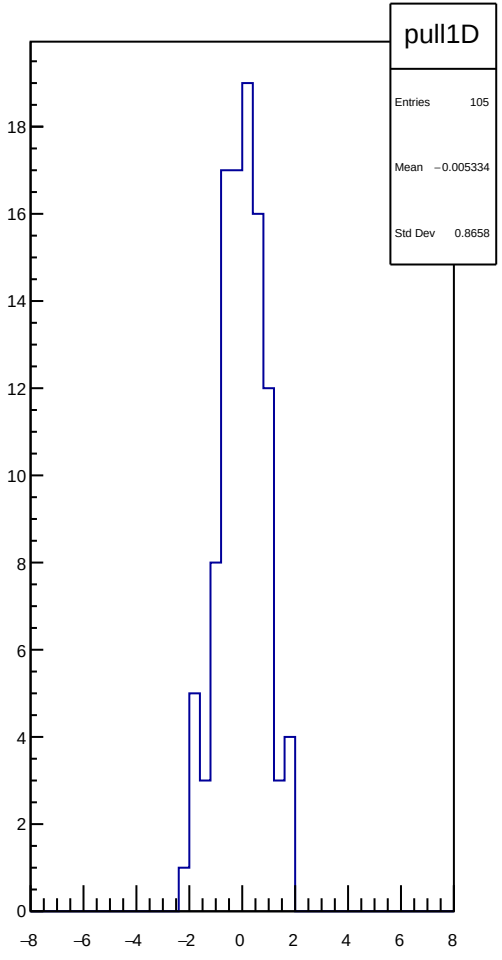

asym_sam_1548_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 8.157e+04 / 104
p0 47.44 ± 0.03384
80
70
60
50
40
30

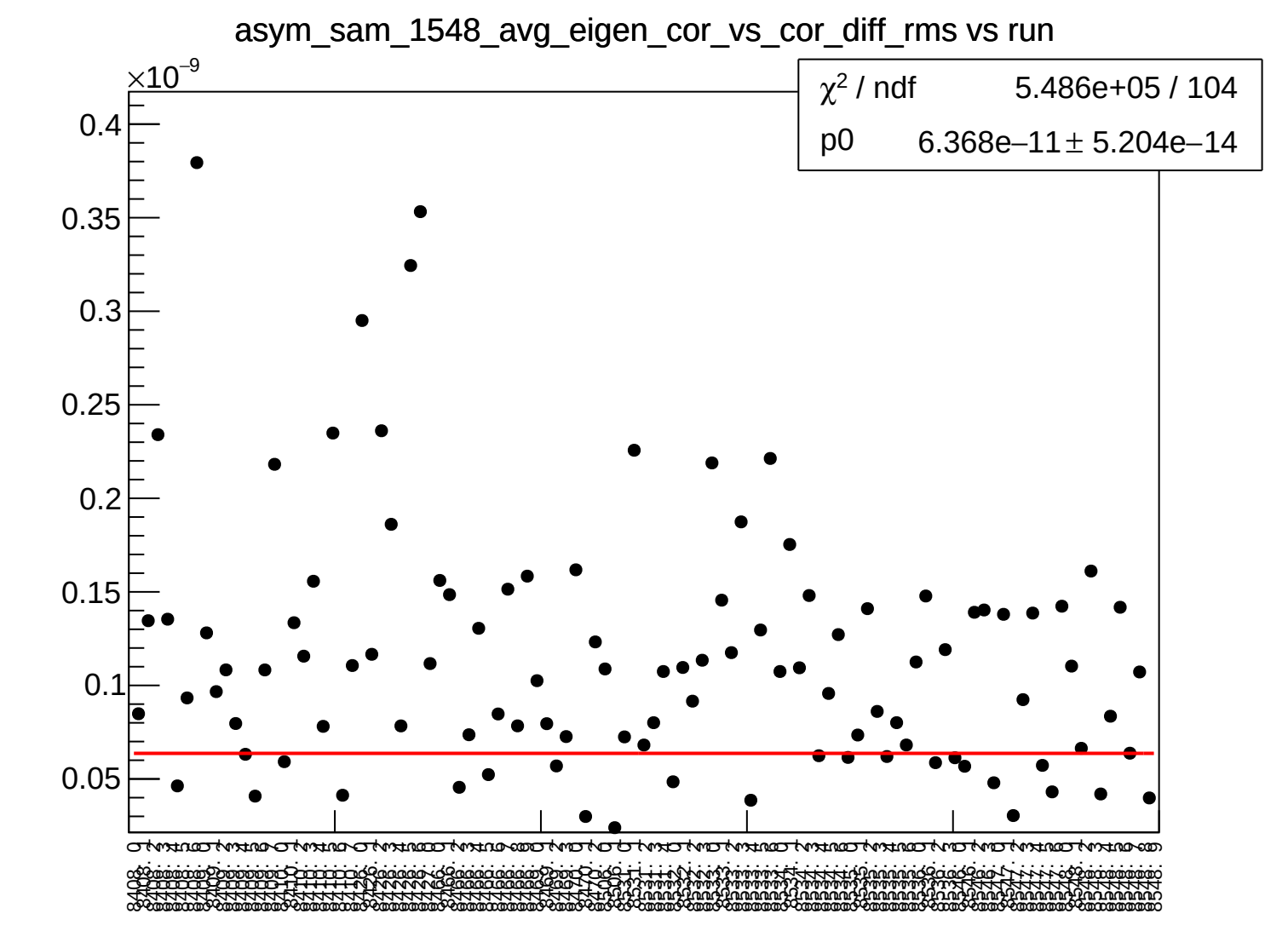

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 114.6 / 104
p0 −0.1265 ± 0.04786
pull
Entries 105
Mean 51.59
Std Dev 62.49

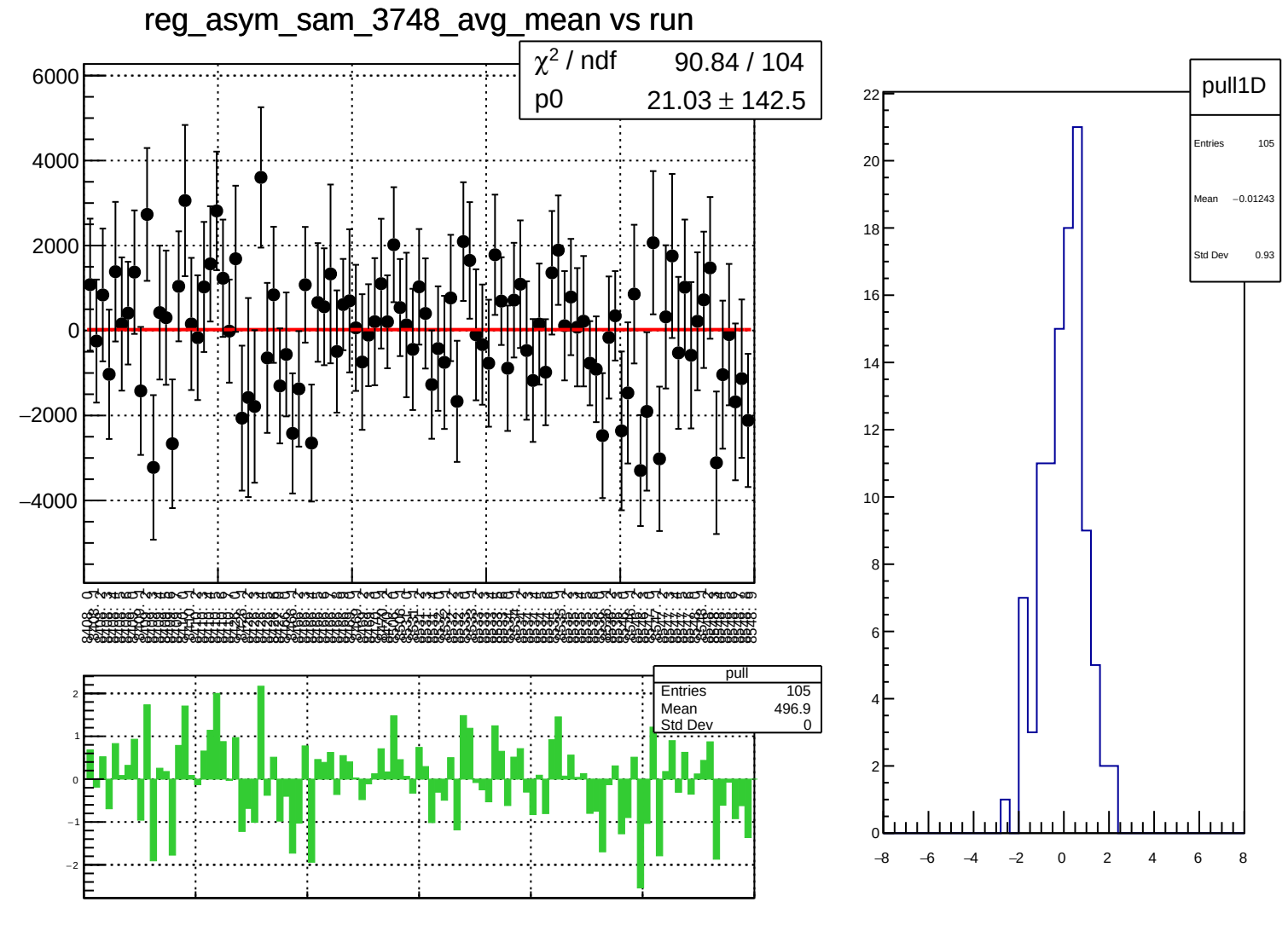

pull1D
Entries 105
Mean −0.03396
Std Dev 1.044

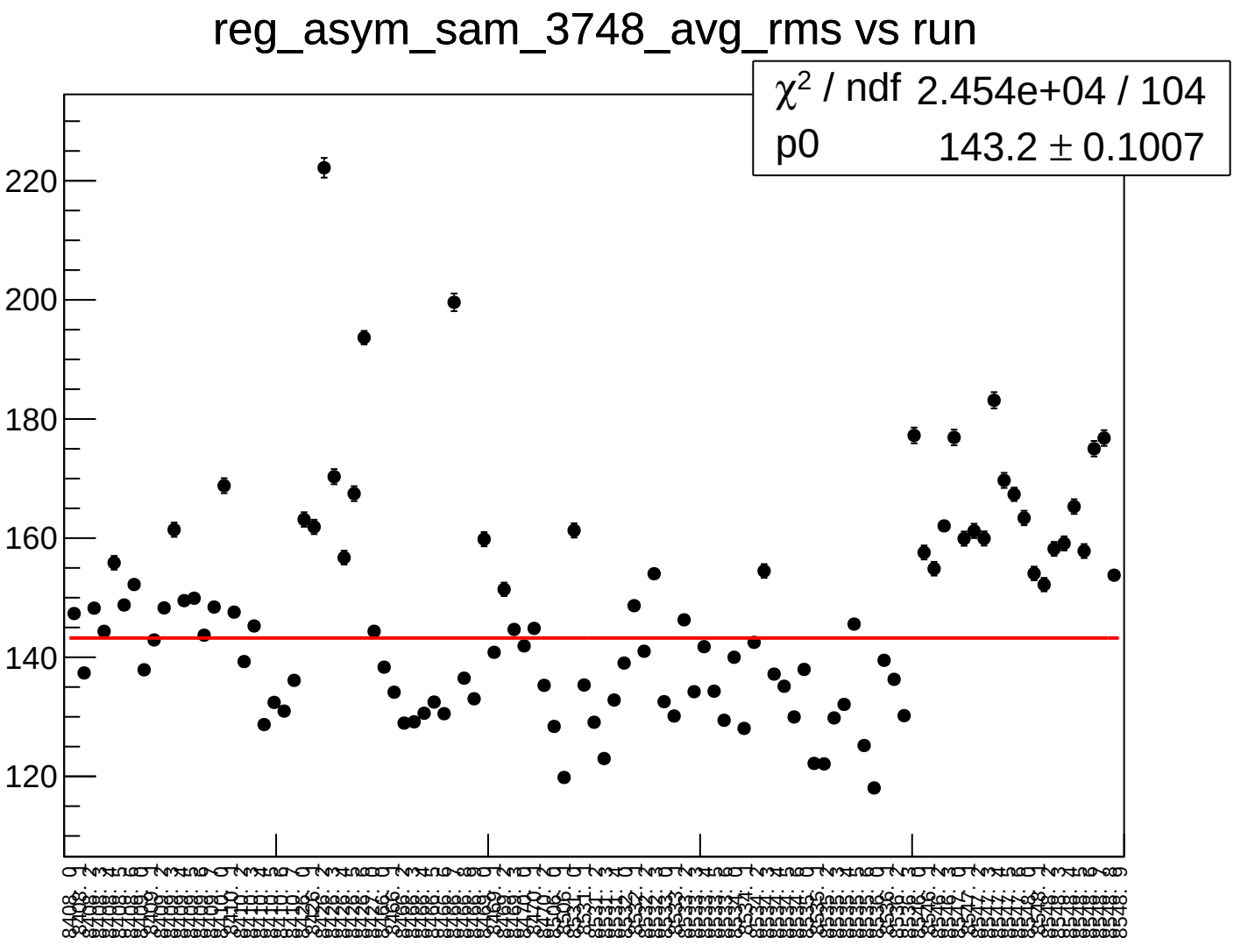

asym_sam_1548_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 8.157e+04 / 104
p0 47.44 ± 0.03384
80
70
60
50
40
30

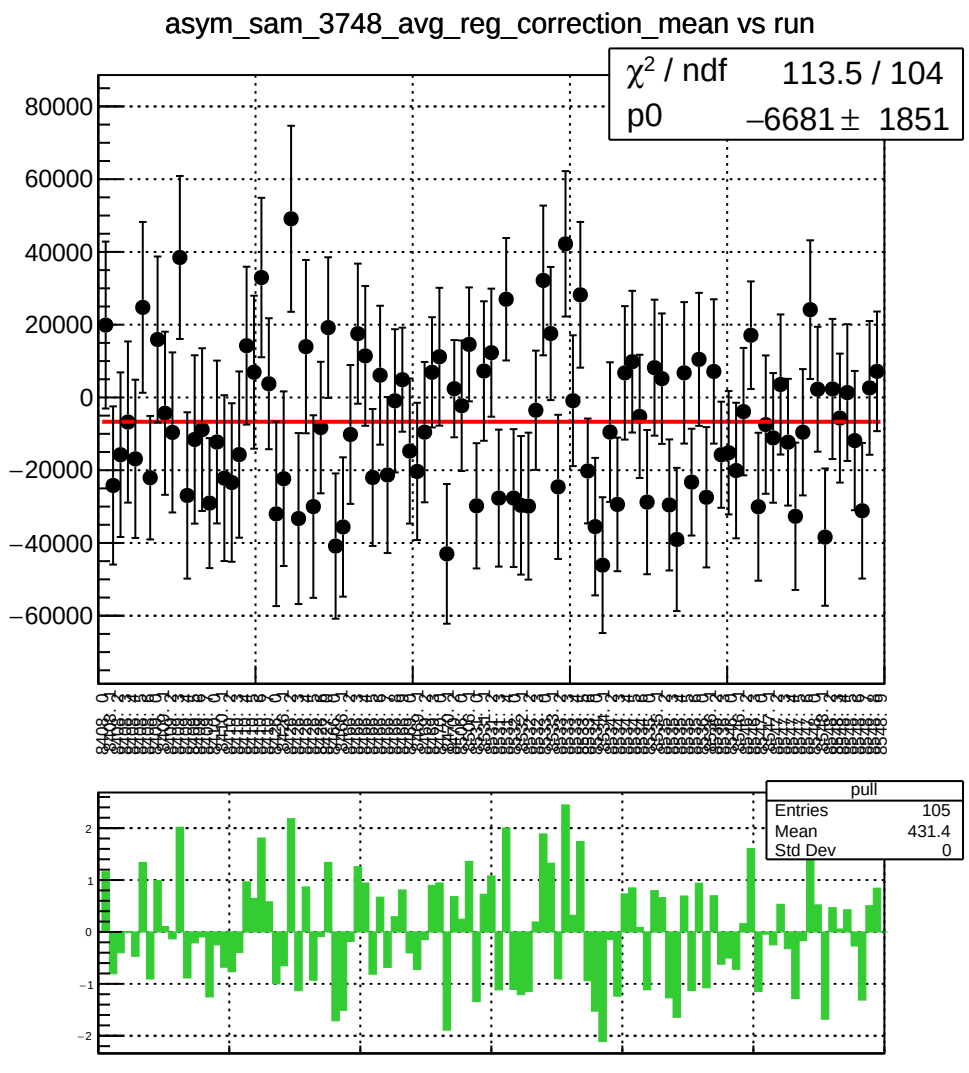

asym_sam_1548_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 78.71 / 104
p0 −3.737e−14 ± 7.359e−14
pull
Entries 105
Mean −448.2
Std Dev 0

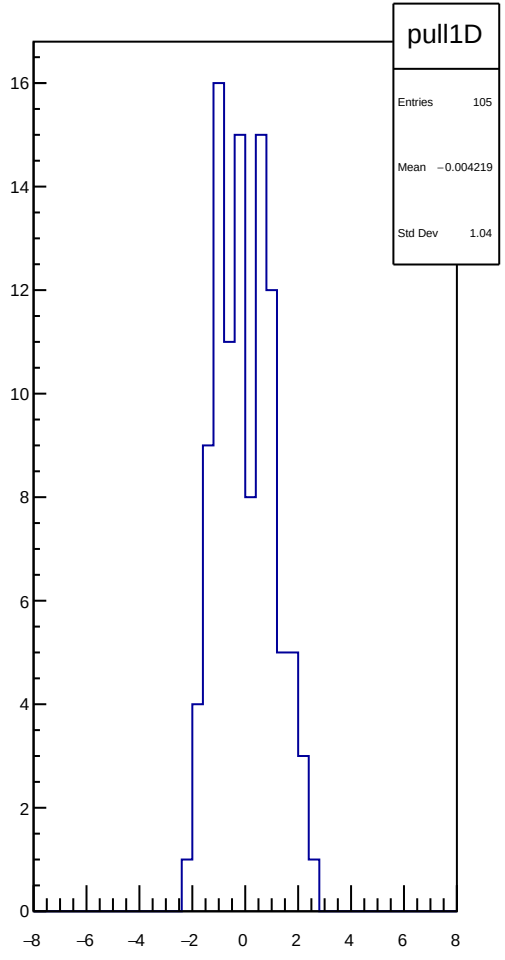

pull1D
Entries 105
Mean −0.005334
Std Dev 0.8658

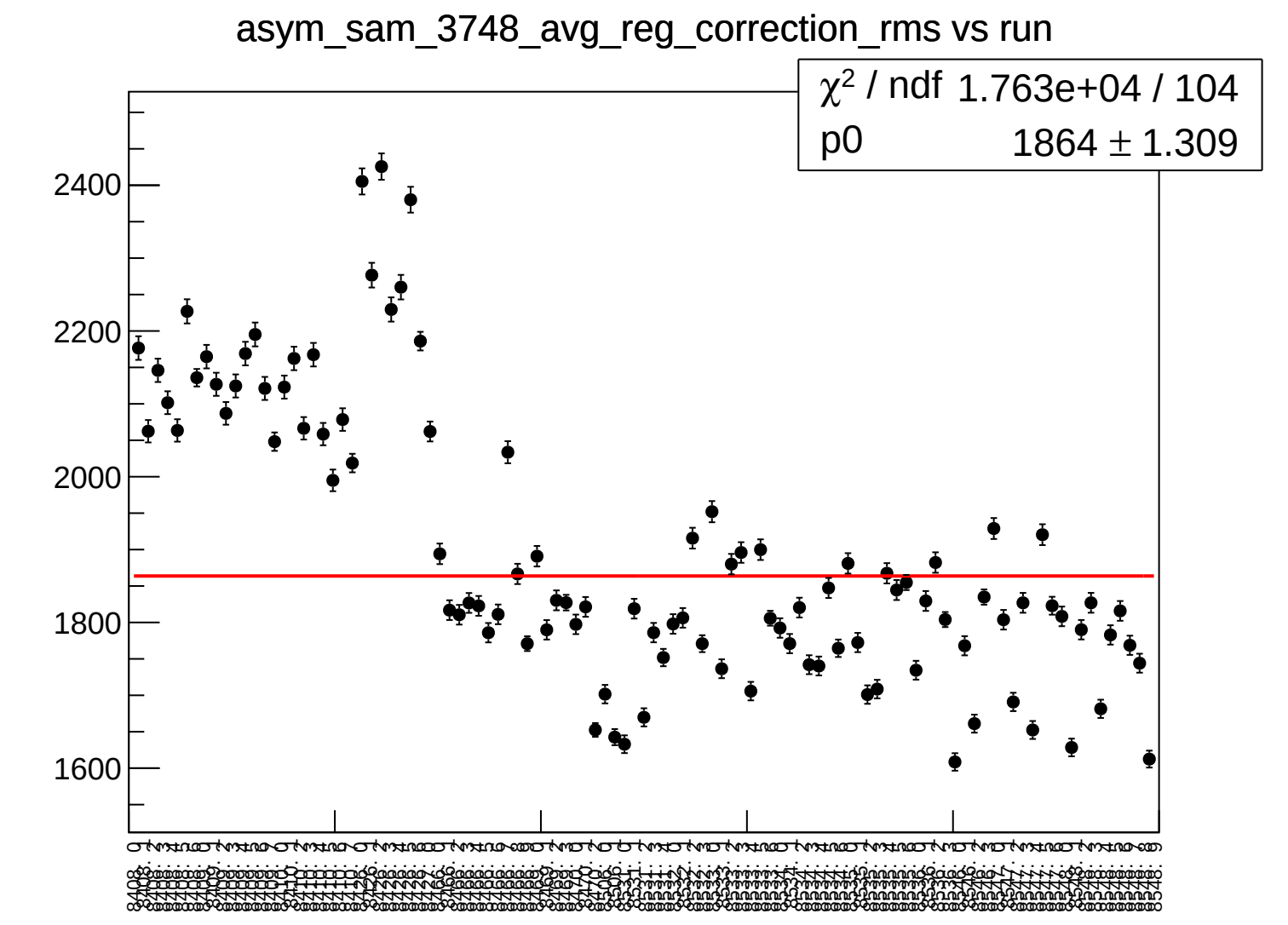

asym_sam_1548_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 5.486e+05 / 104
p0 6.368e−11 ± 5.204e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

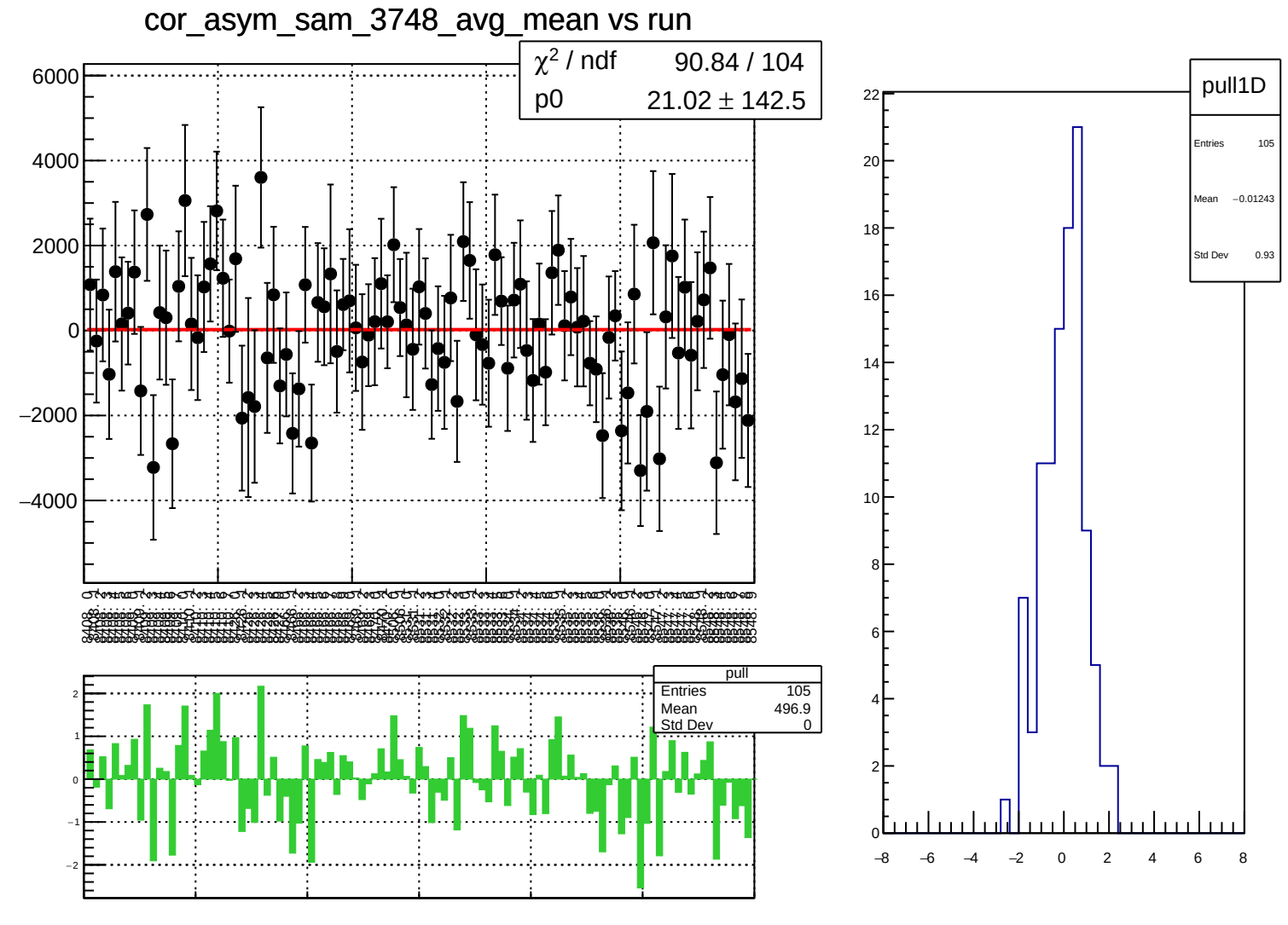

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 90.84 / 104
p0 21.03 ± 142.5
6000
4000
2000
0
−2000
−4000
pull
Entries 105
Mean 496.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.01243
Std Dev 0.93
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

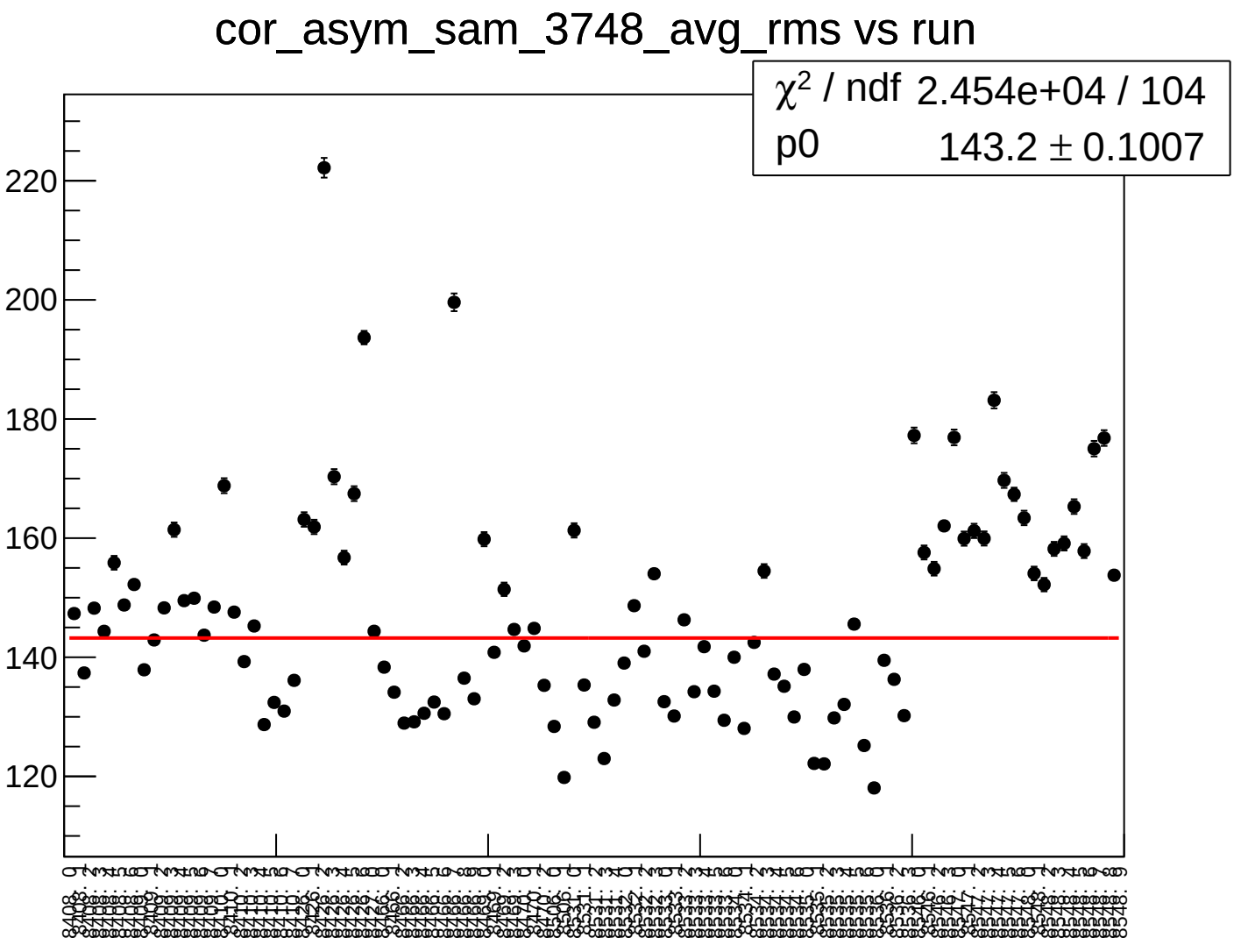

reg_asym_sam_3748_avg_rms vs run
χ^2 / ndf 2.454e+04 / 104
p0 143.2 ± 0.1007
220
200
180
160
140
120

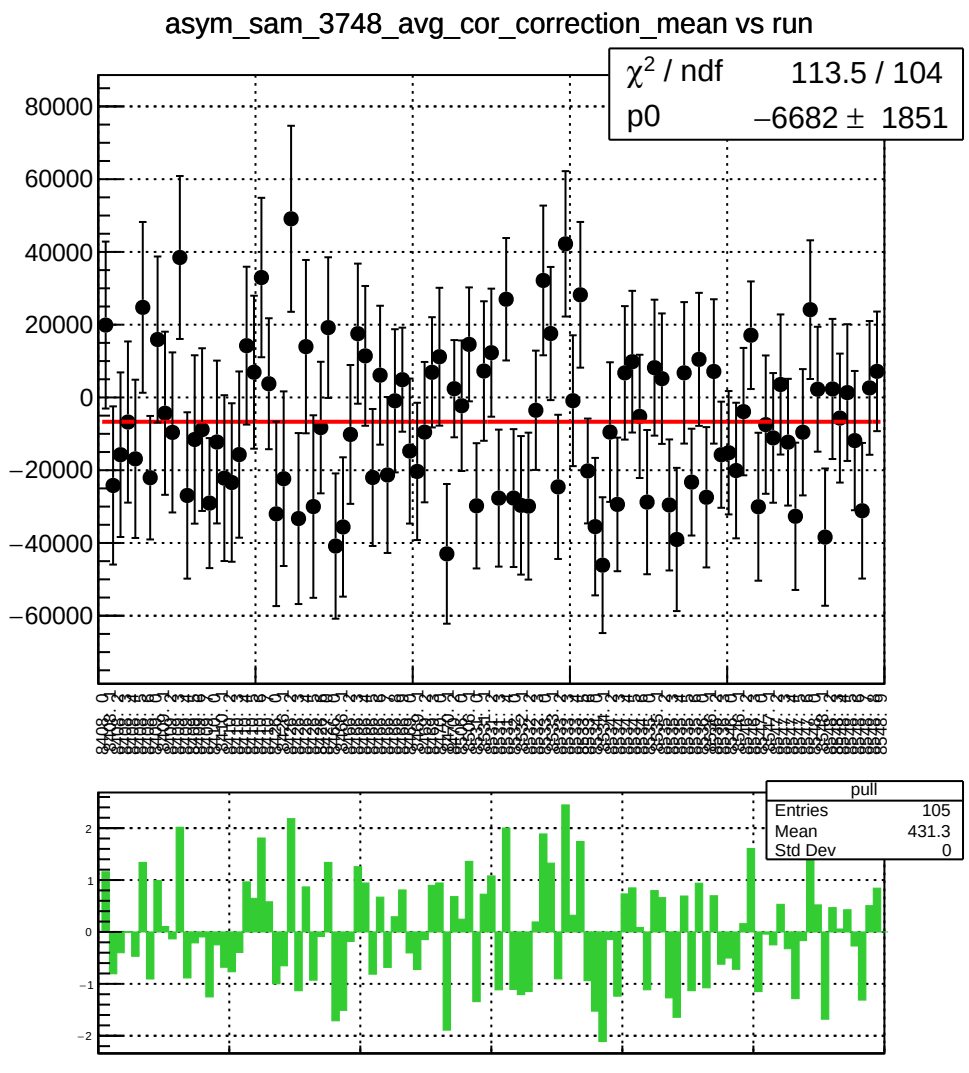

asym_sam_3748_avg_reg_correction_mean vs run
χ² / ndf 113.5 / 104
p0 −6681 ± 1851
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean 431.4
Std Dev 0
2
1
0
−1
−2

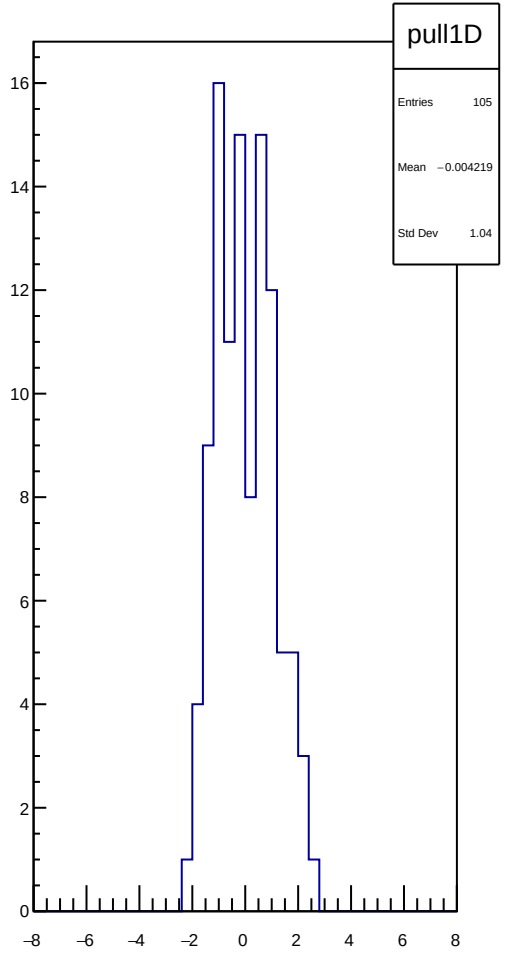

pull1D
Entries 105
Mean −0.004219
Std Dev 1.04
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

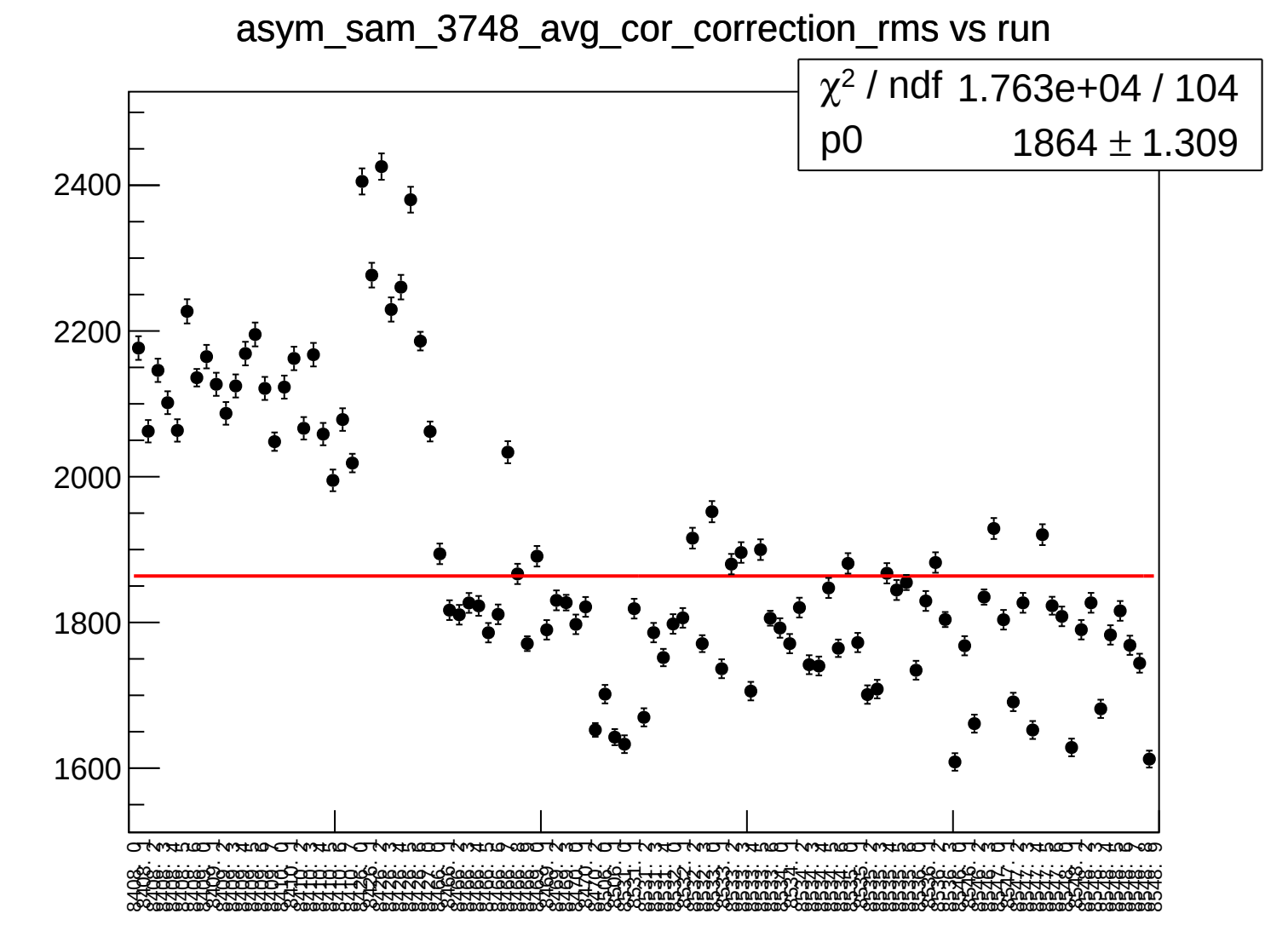

asym_sam_3748_avg_reg_correction_rms vs run
χ² / ndf 1.763e+04 / 104
p0 1864 ± 1.309
2400
2200
2000
1800
1600

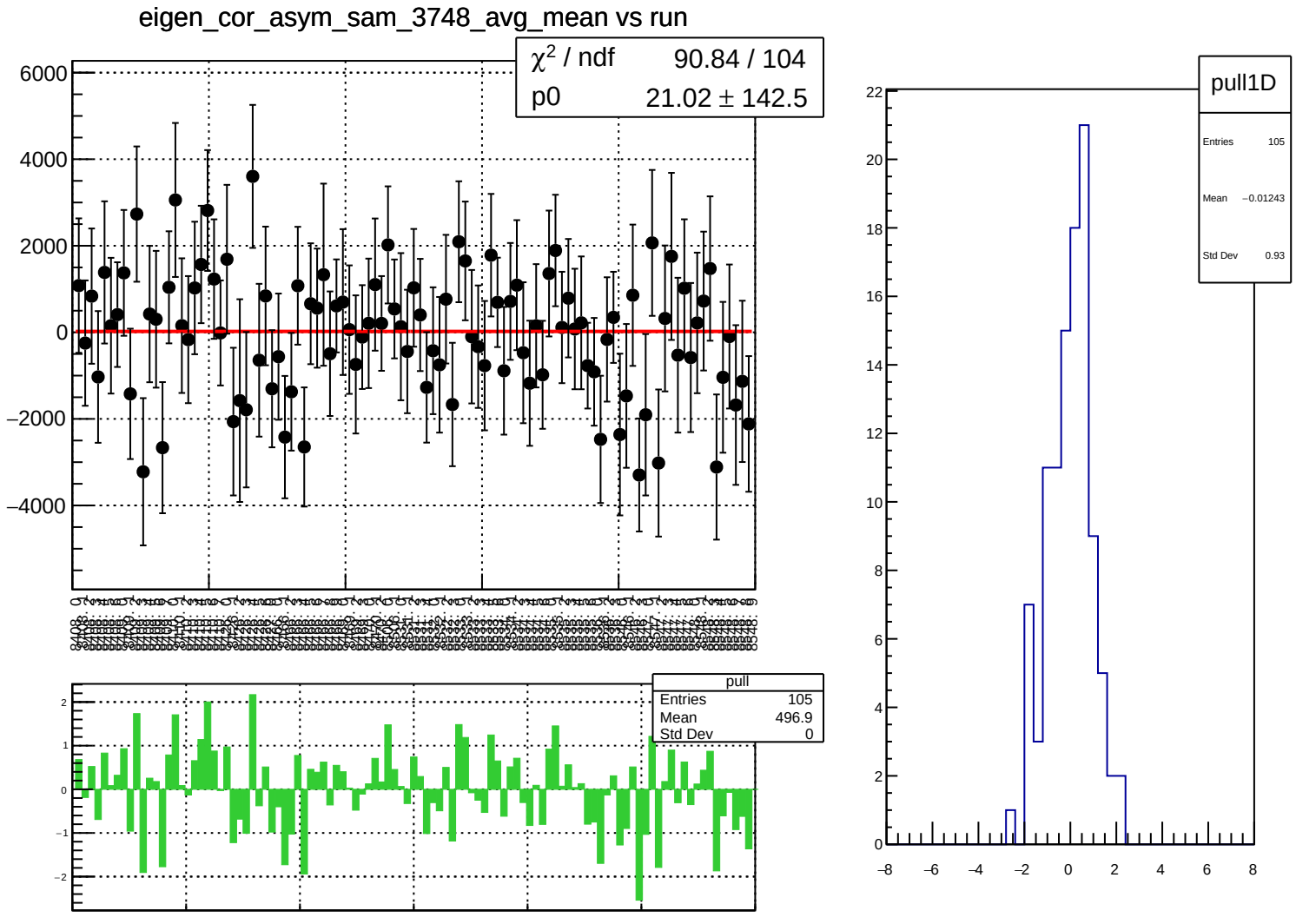

cor_asym_sam_3748_avg_mean vs run
χ² / ndf 90.84 / 104
p0 21.02 ± 142.5
6000
4000
2000
0
−2000
−4000
pull
Entries 105
Mean 496.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.01243
Std Dev 0.93
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

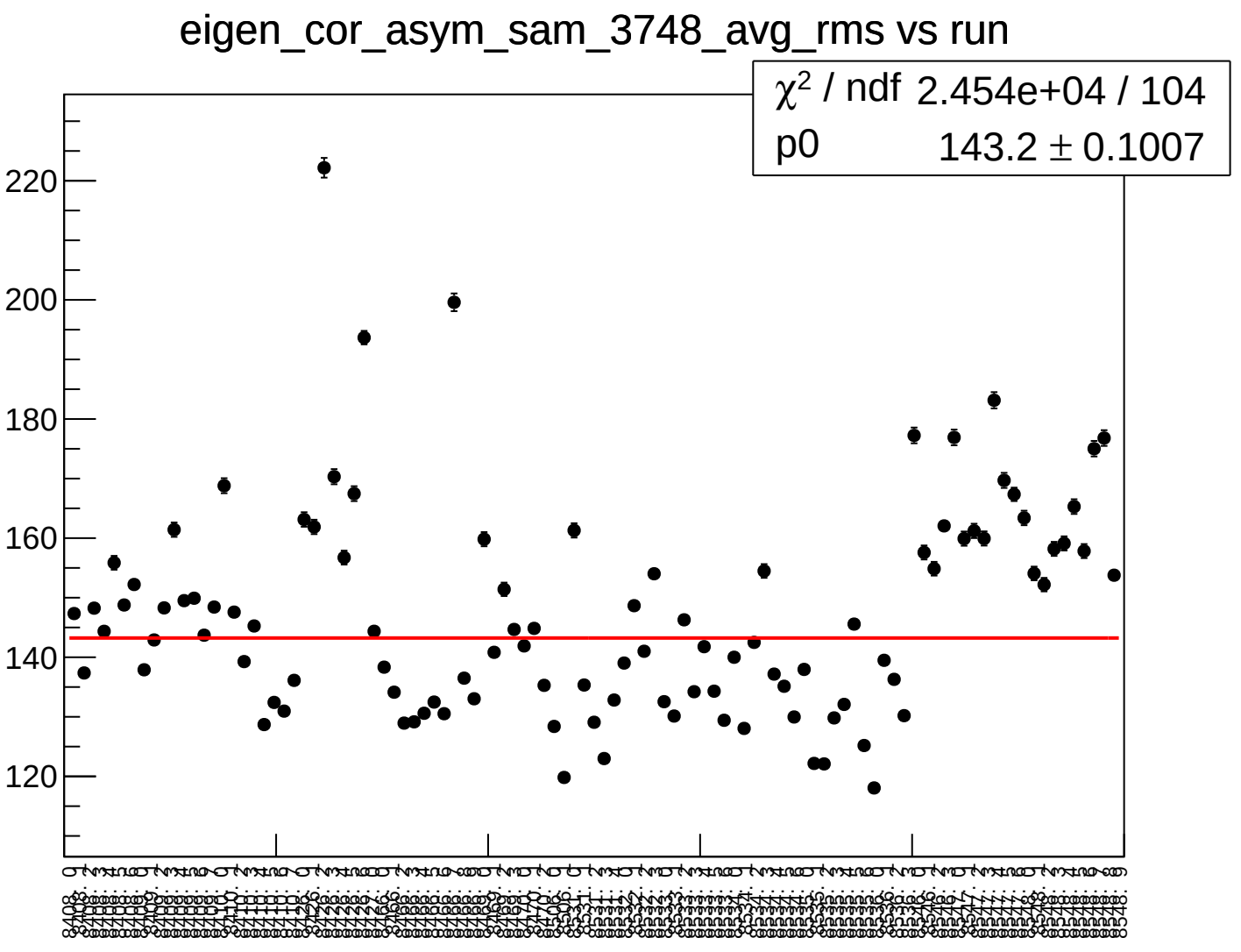

cor_asym_sam_3748_avg_rms vs run
χ² / ndf 2.454e+04 / 104
p0 143.2 ± 0.1007
220
200
180
160
140
120

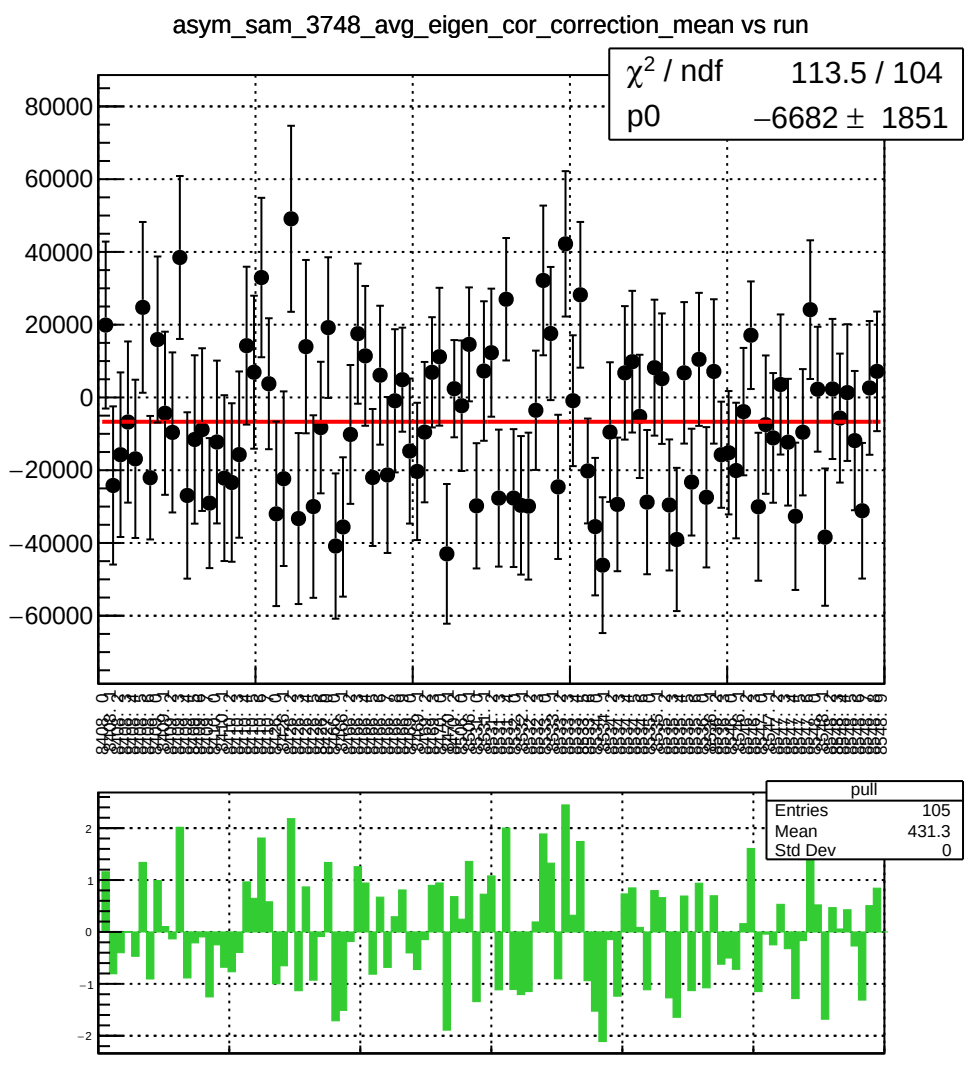

asym_sam_3748_avg_cor_correction_mean vs run
χ² / ndf 113.5 / 104
p0 −6682 ± 1851
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean 431.3
Std Dev 0
2
1
0
−1
−2

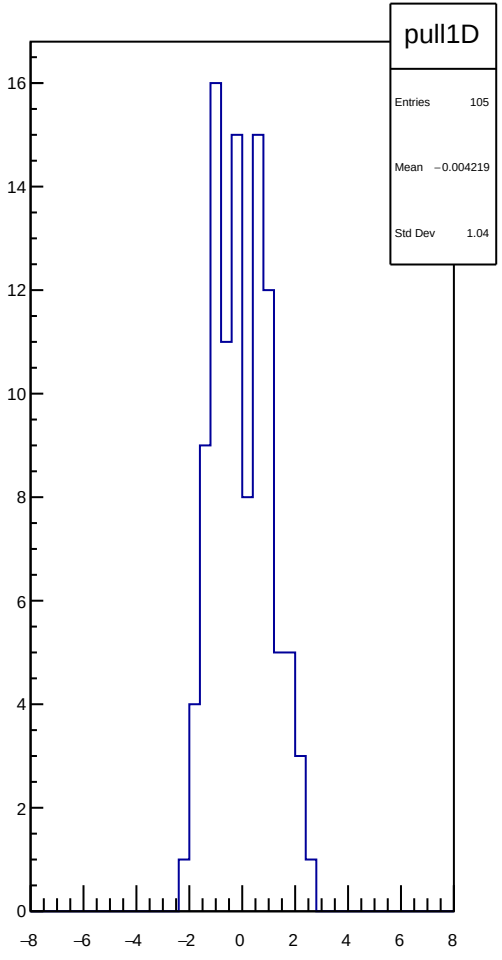

pull1D
Entries 105
Mean −0.004219
Std Dev 1.04
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

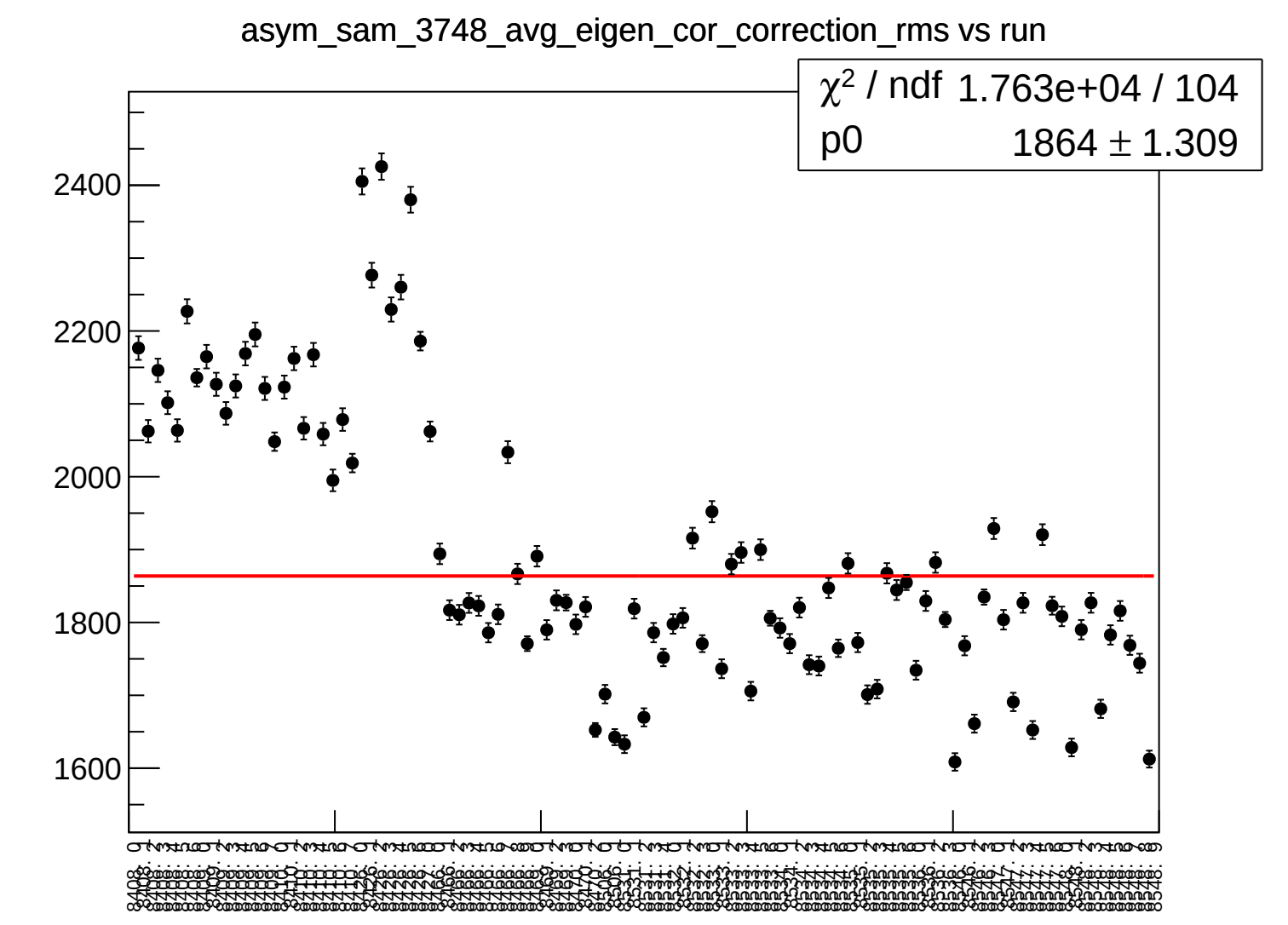

asym_sam_3748_avg_cor_correction_rms vs run
χ² / ndf 1.763e+04 / 104
p0 1864 ± 1.309
2400
2200
2000
1800
1600

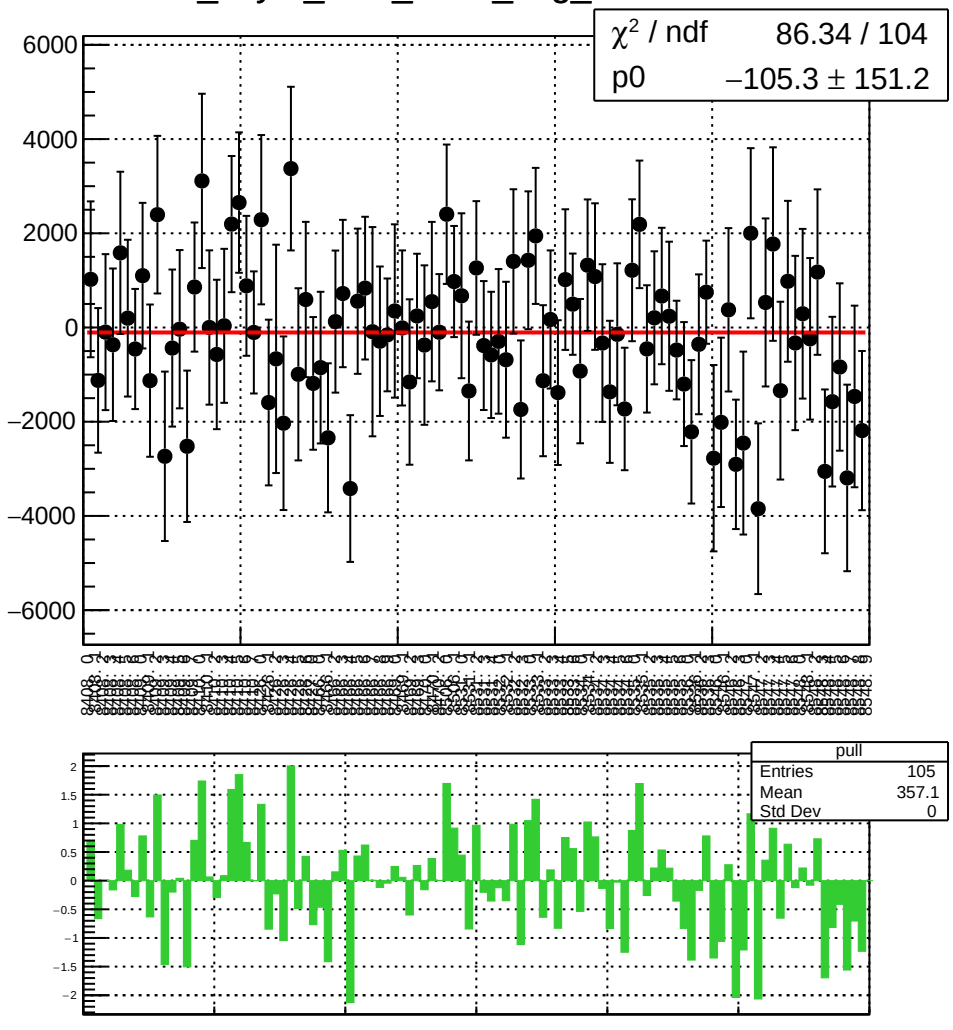

eigen_cor_asym_sam_3748_avg_mean vs run
χ² / ndf 90.84 / 104
p0 21.02 ± 142.5
6000
4000
2000
0
−2000
−4000
pull
Entries 105
Mean 496.9
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.01243
Std Dev 0.93
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

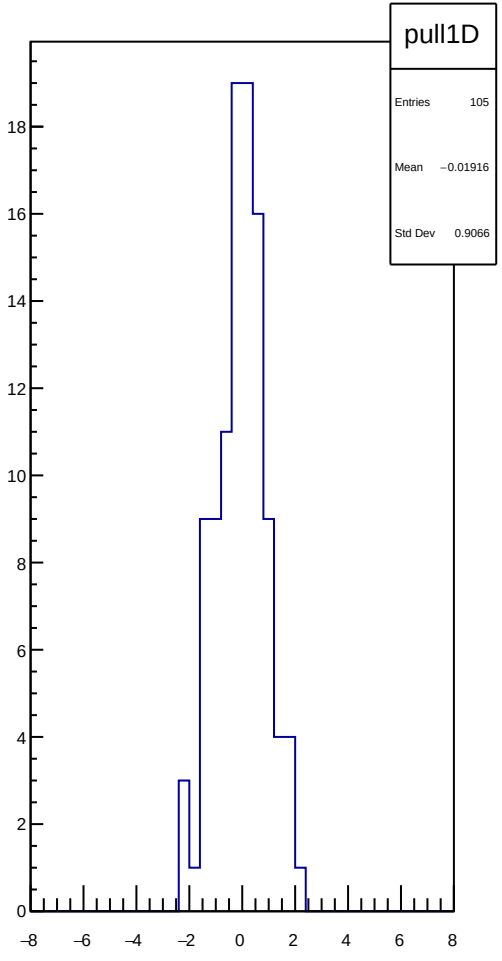

eigen_cor_asym_sam_3748_avg_rms vs run
χ² / ndf 2.454e+04 / 104
p0 143.2 ± 0.1007
220
200
180
160
140
120

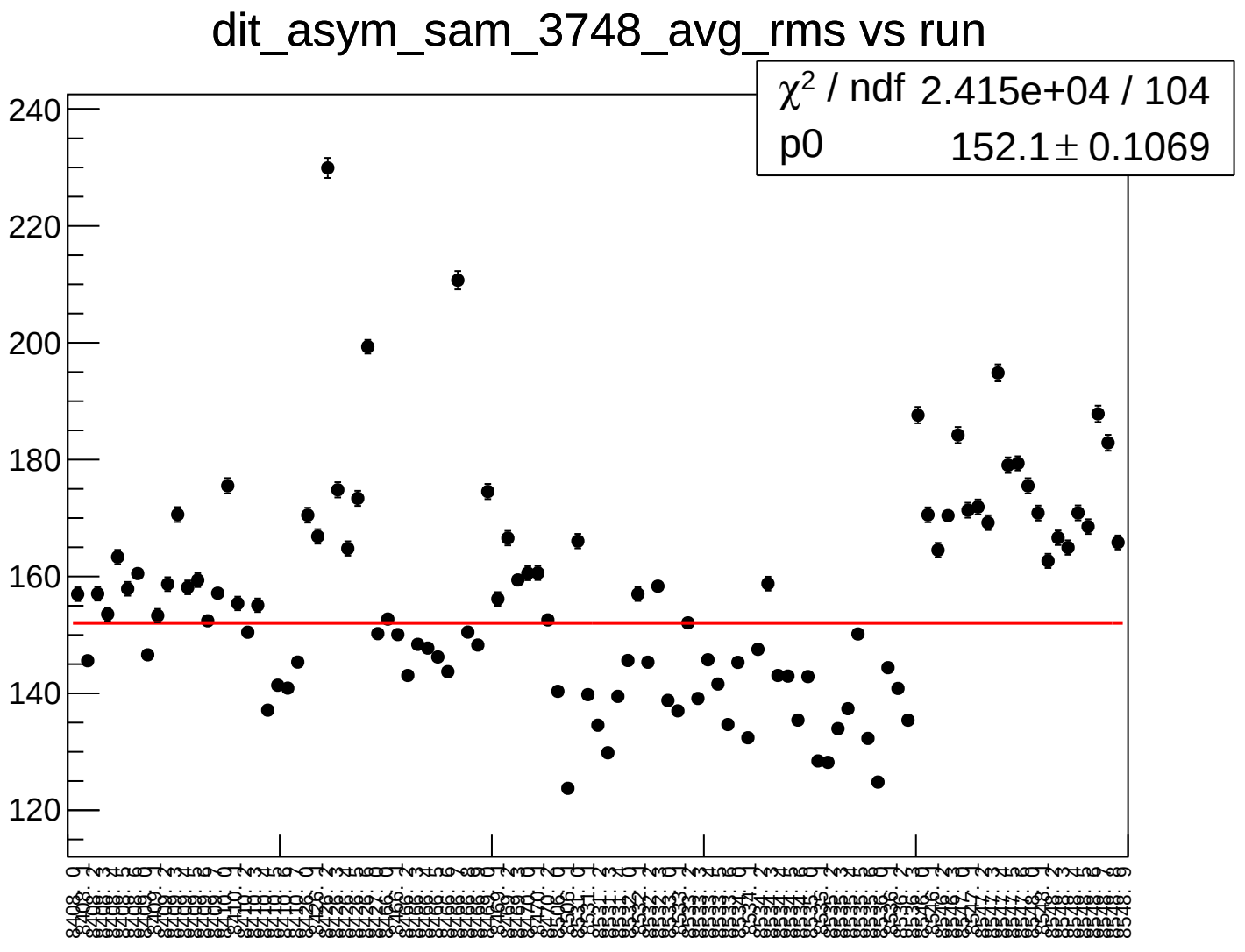

asym_sam_3748_avg_eigen_cor_correction_mean vs run
χ² / ndf 113.5 / 104
p0 −6682 ± 1851
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean 431.3
Std Dev 0
2
1
0
−1
−2

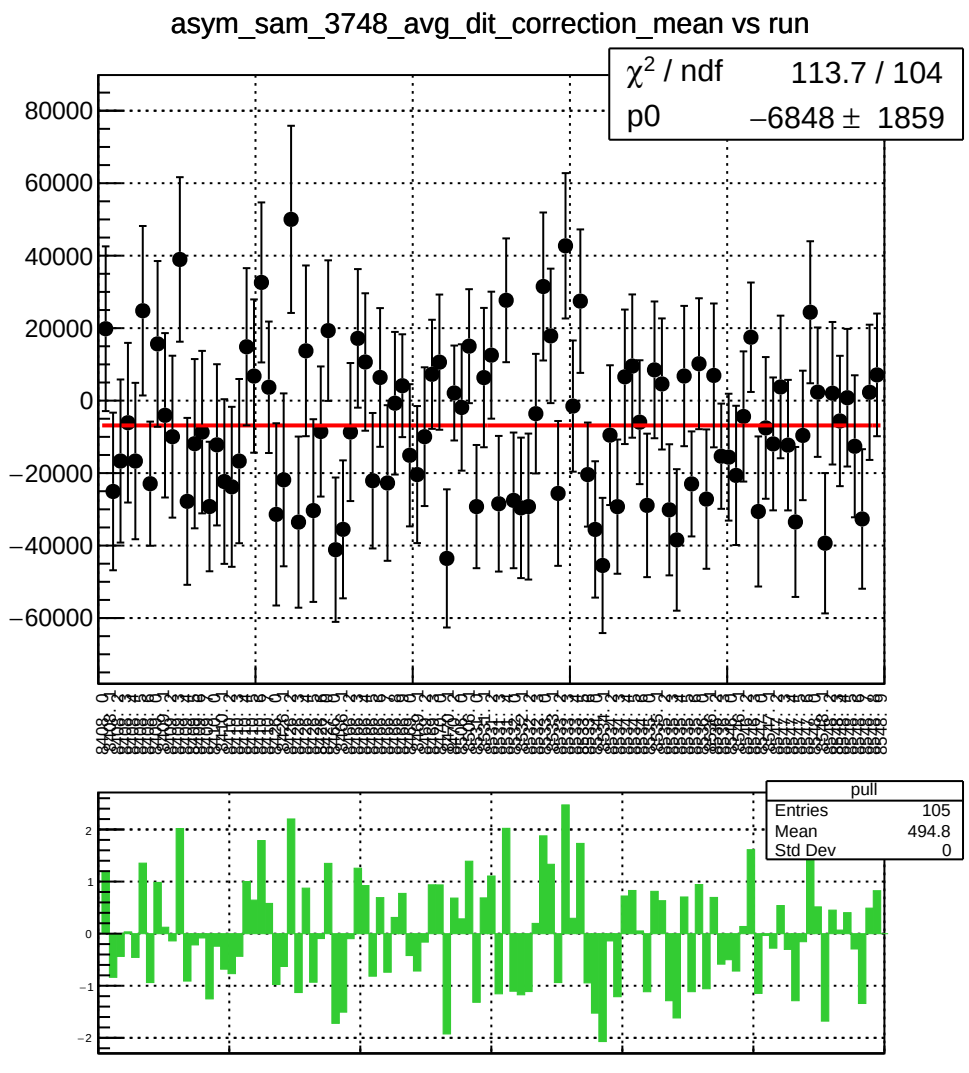

pull1D
Entries 105
Mean −0.004219
Std Dev 1.04
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

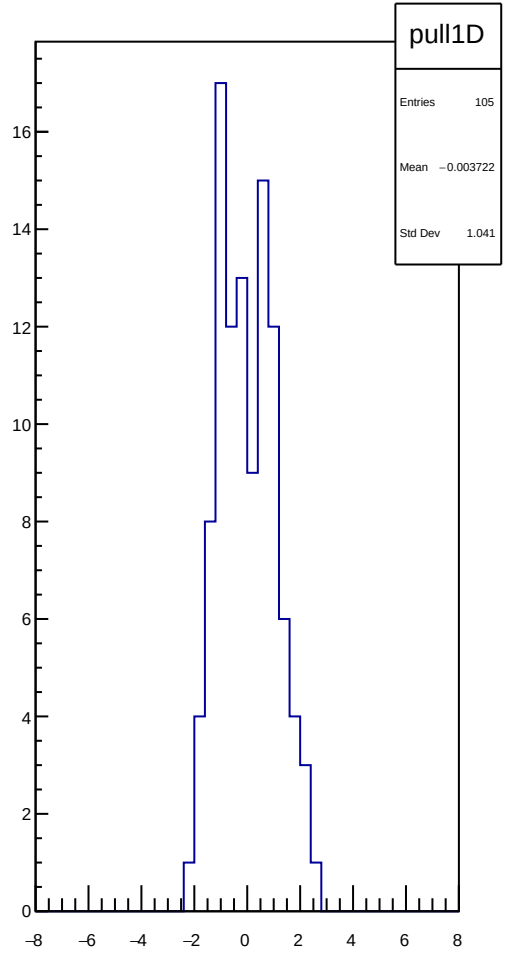

asym_sam_3748_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.763e+04 / 104
p0 1864 ± 1.309
2400
2200
2000
1800
1600

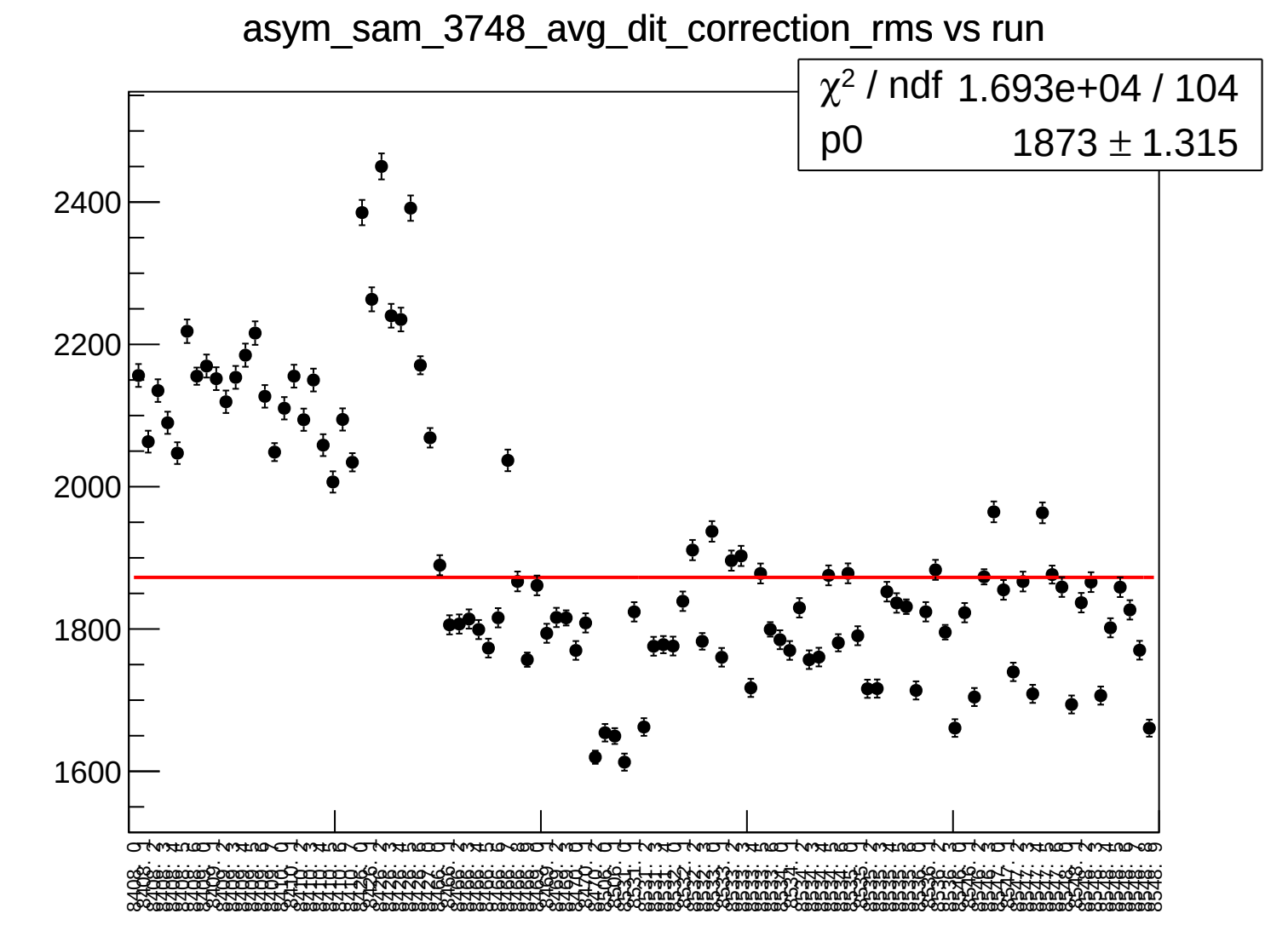

dit_asym_sam_3748_avg_mean vs run
χ² / ndf 86.34 / 104
p0 −105.3 ± 151.2
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 105
Mean 357.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

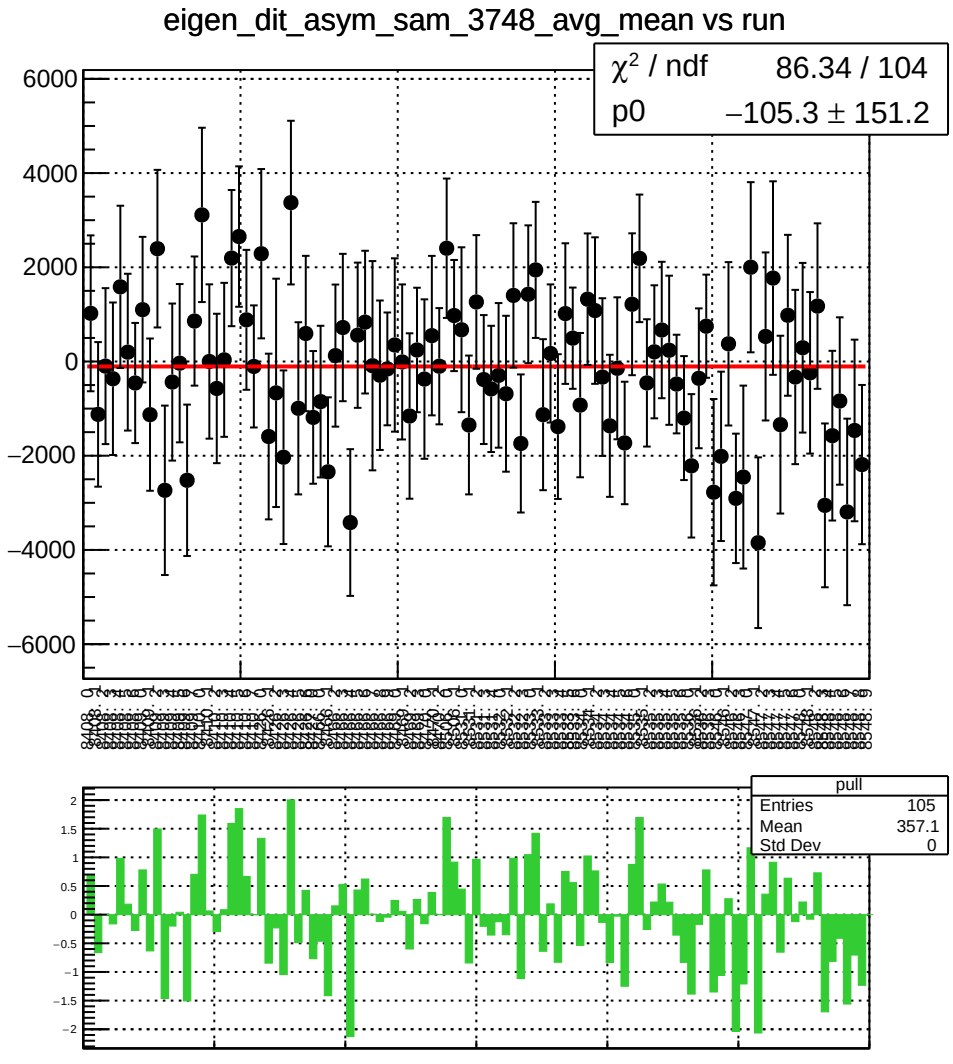

pull1D
Entries 105
Mean −0.01916
Std Dev 0.9066
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

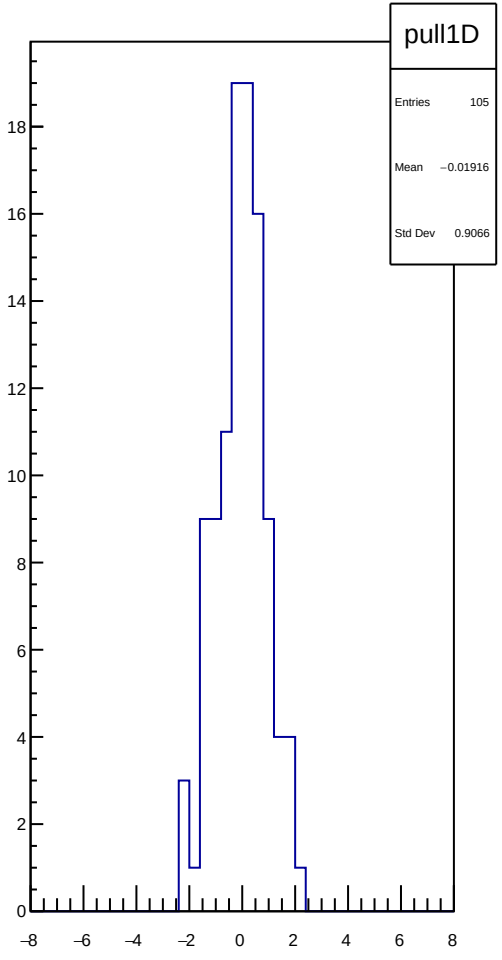

dit_asym_sam_3748_avg_rms vs run
χ² / ndf 2.415e+04 / 104
p0 152.1 ± 0.1069
240
220
200
180
160
140
120

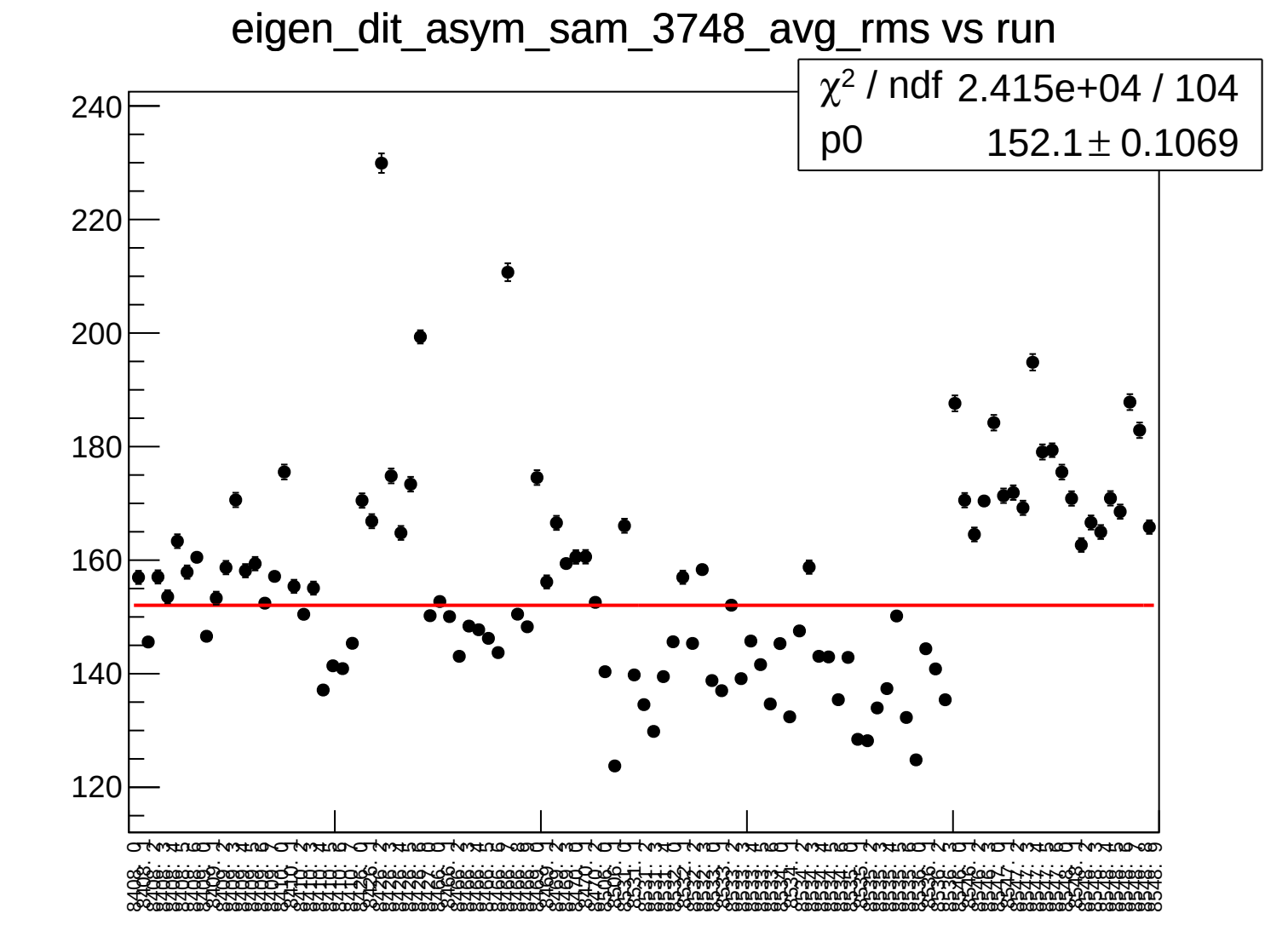

asym_sam_3748_avg_dit_correction_mean vs run
χ² / ndf 113.7 / 104
p0 −6848 ± 1859
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean 494.8
Std Dev 0
2
1
0
−1
−2

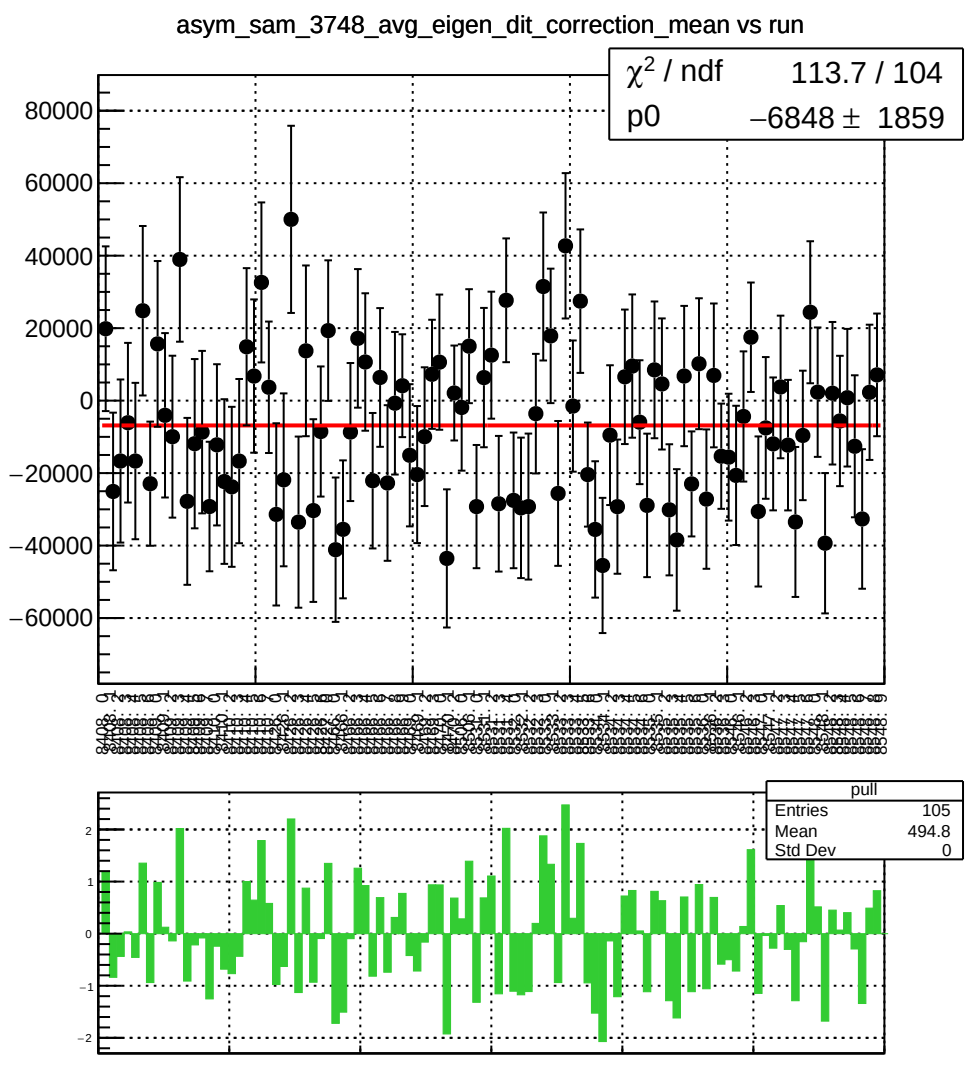

pull1D
Entries 105
Mean −0.003722
Std Dev 1.041
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

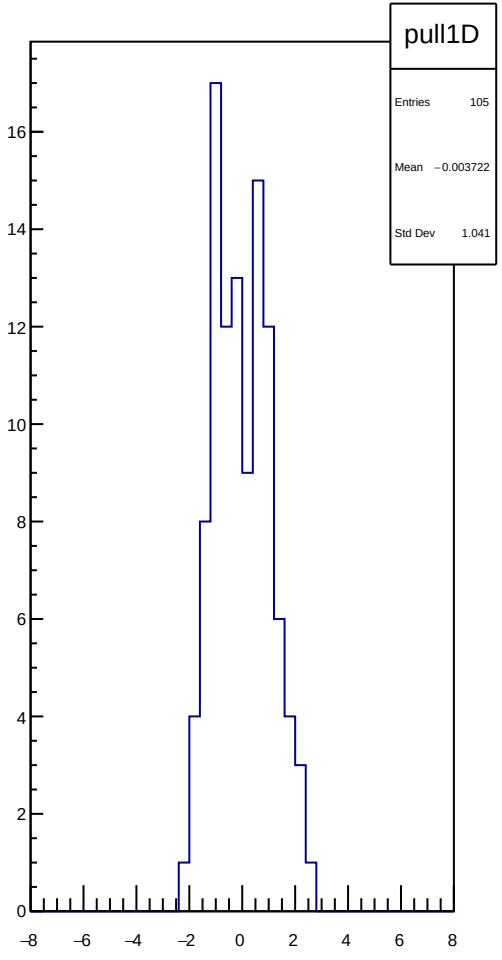

asym_sam_3748_avg_dit_correction_rms vs run
χ² / ndf 1.693e+04 / 104
p0 1873 ± 1.315
2400
2200
2000
1800
1600

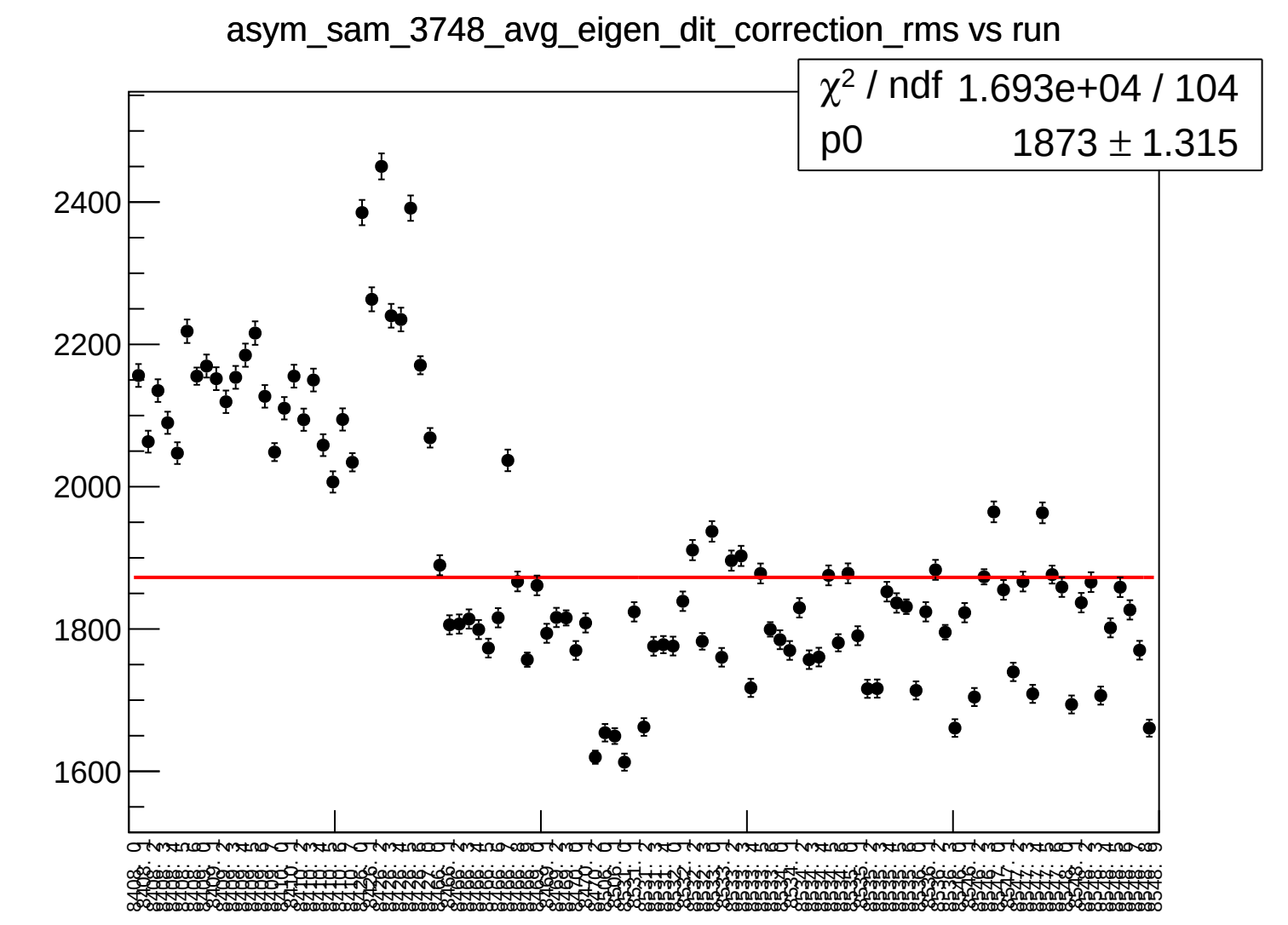

eigen_dit_asym_sam_3748_avg_mean vs run
χ² / ndf 86.34 / 104
p0 −105.3 ± 151.2
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 105
Mean 357.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

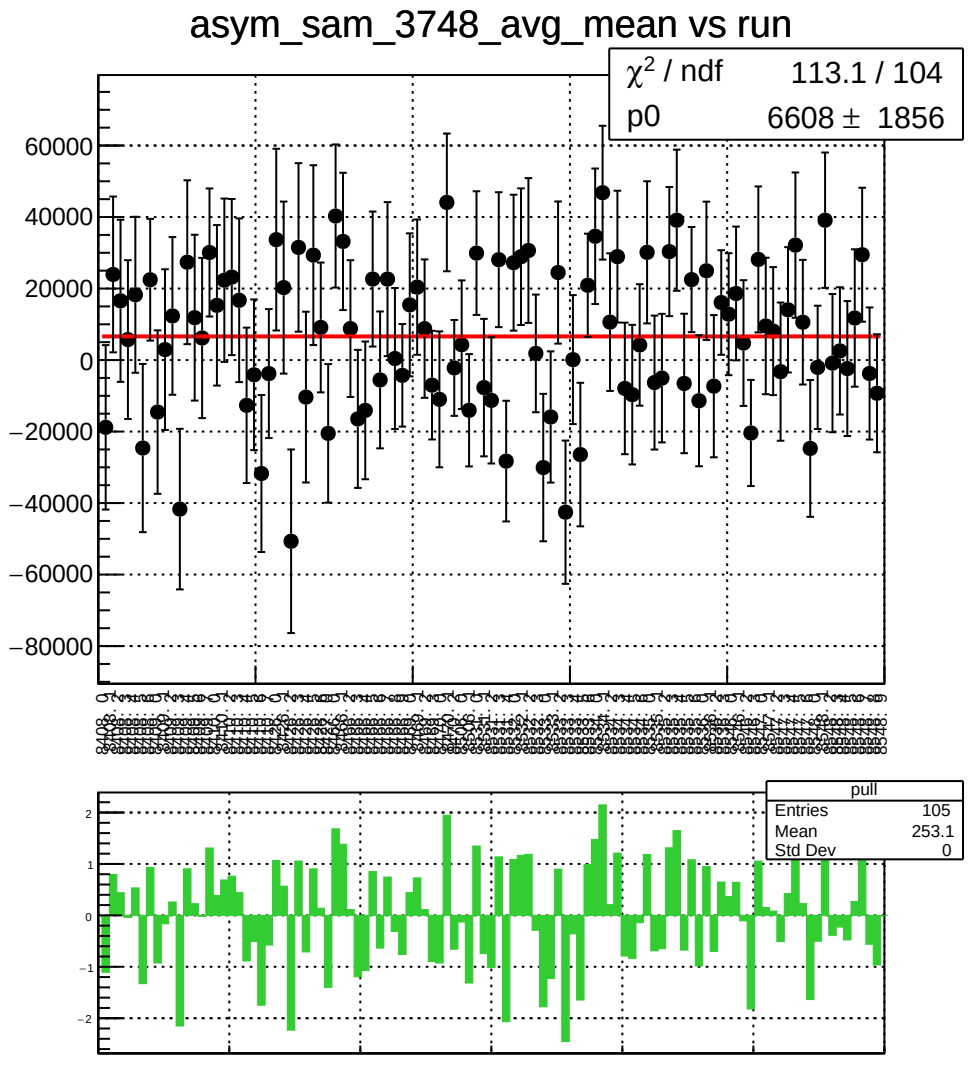

pull1D
Entries 105
Mean −0.01916
Std Dev 0.9066
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

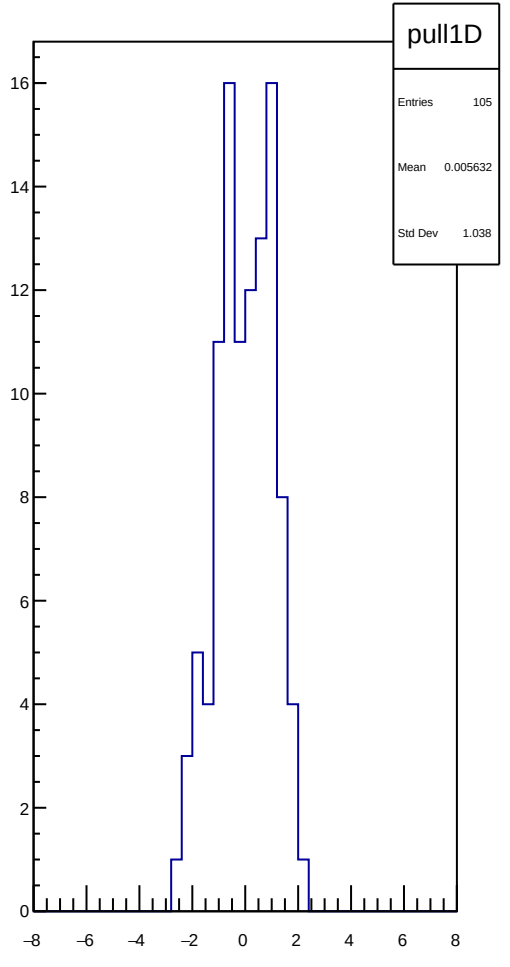

eigen_dit_asym_sam_3748_avg_rms vs run
χ² / ndf 2.415e+04 / 104
p0 152.1 ± 0.1069
240
220
200
180
160
140
120

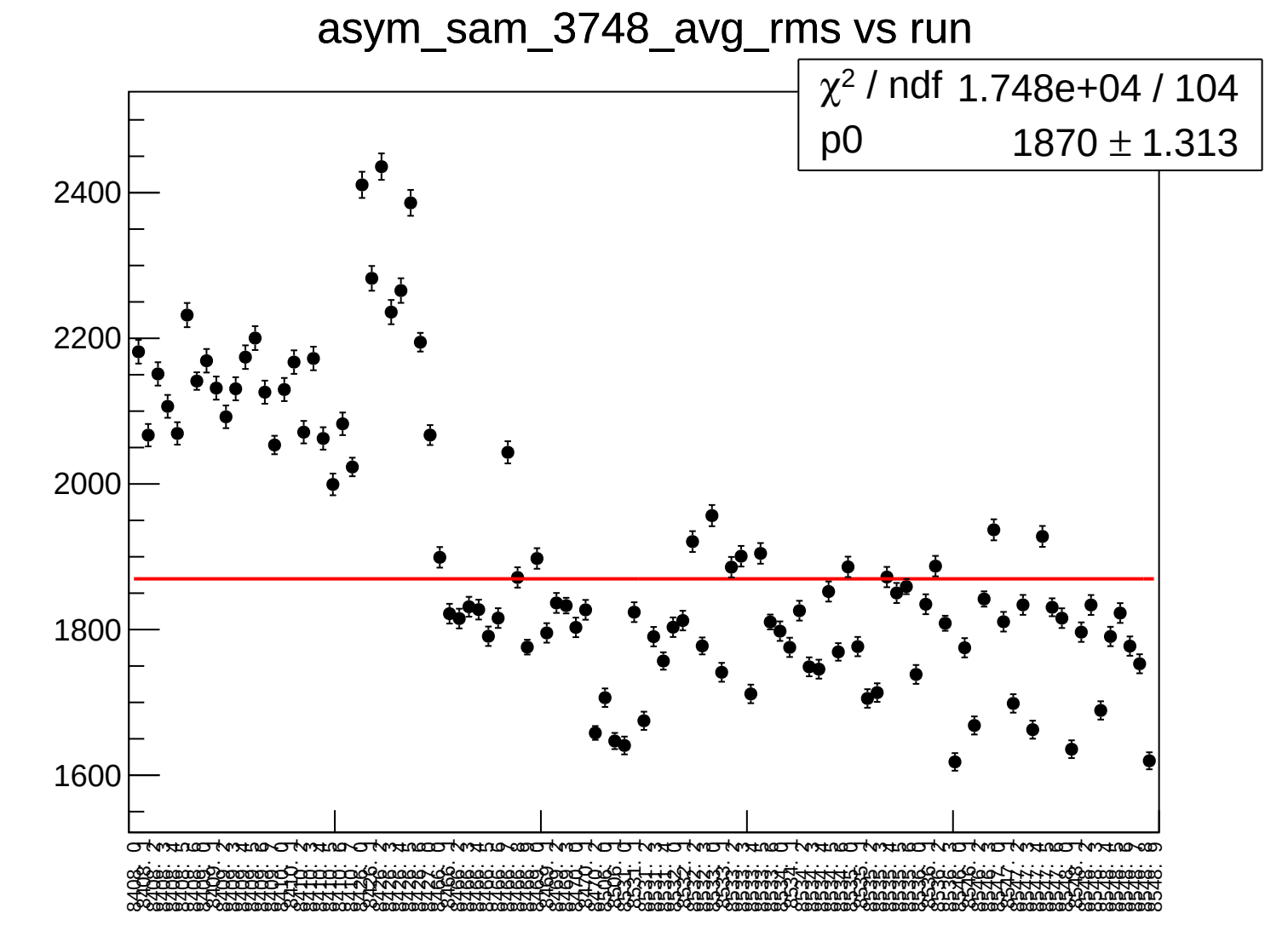

asym_sam_3748_avg_eigen_dit_correction_mean vs run
χ² / ndf 113.7 / 104
p0 −6848 ± 1859
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean 494.8
Std Dev 0
2
1
0
−1
−2

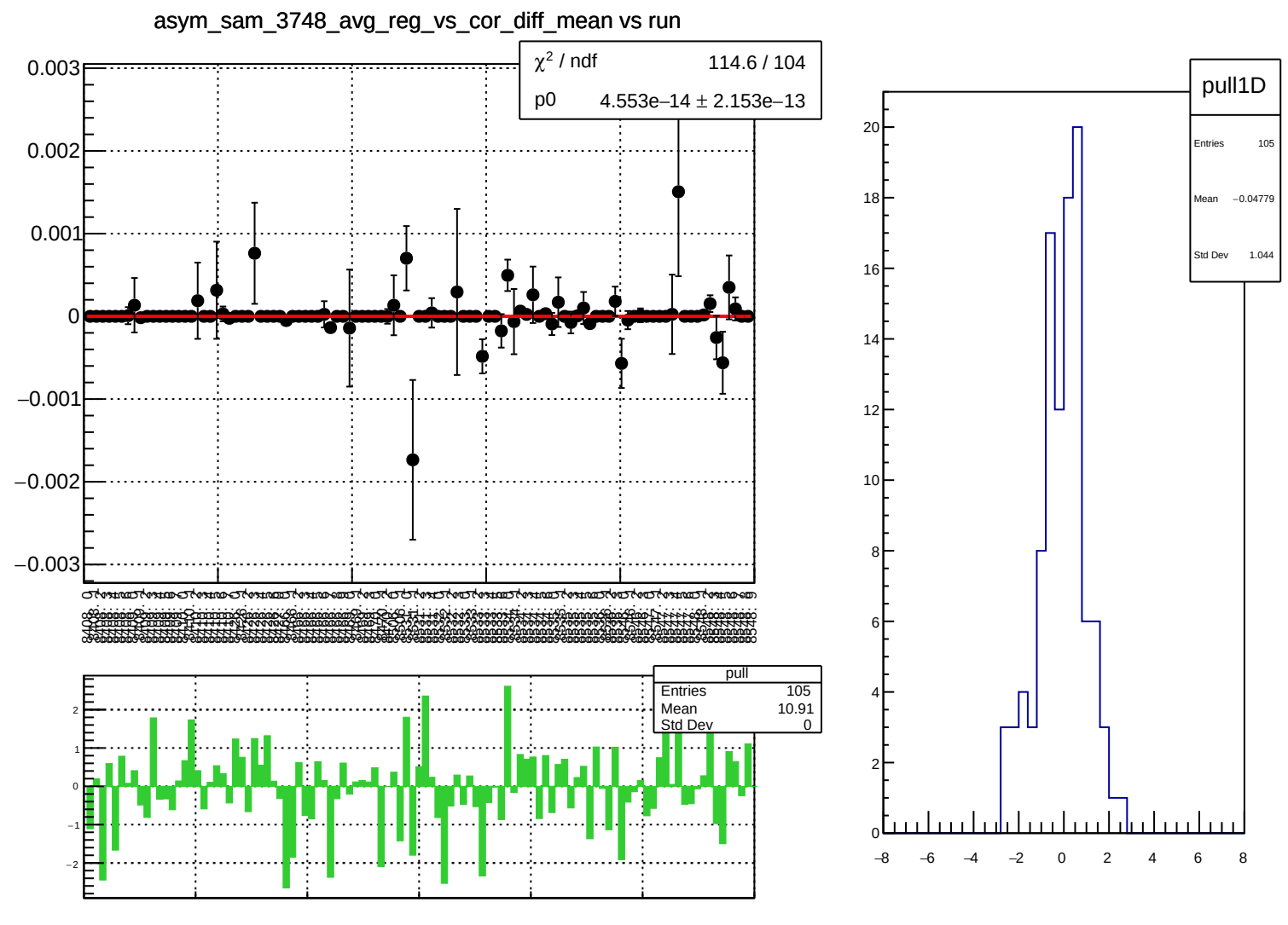

pull1D
Entries 105
Mean −0.003722
Std Dev 1.041
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

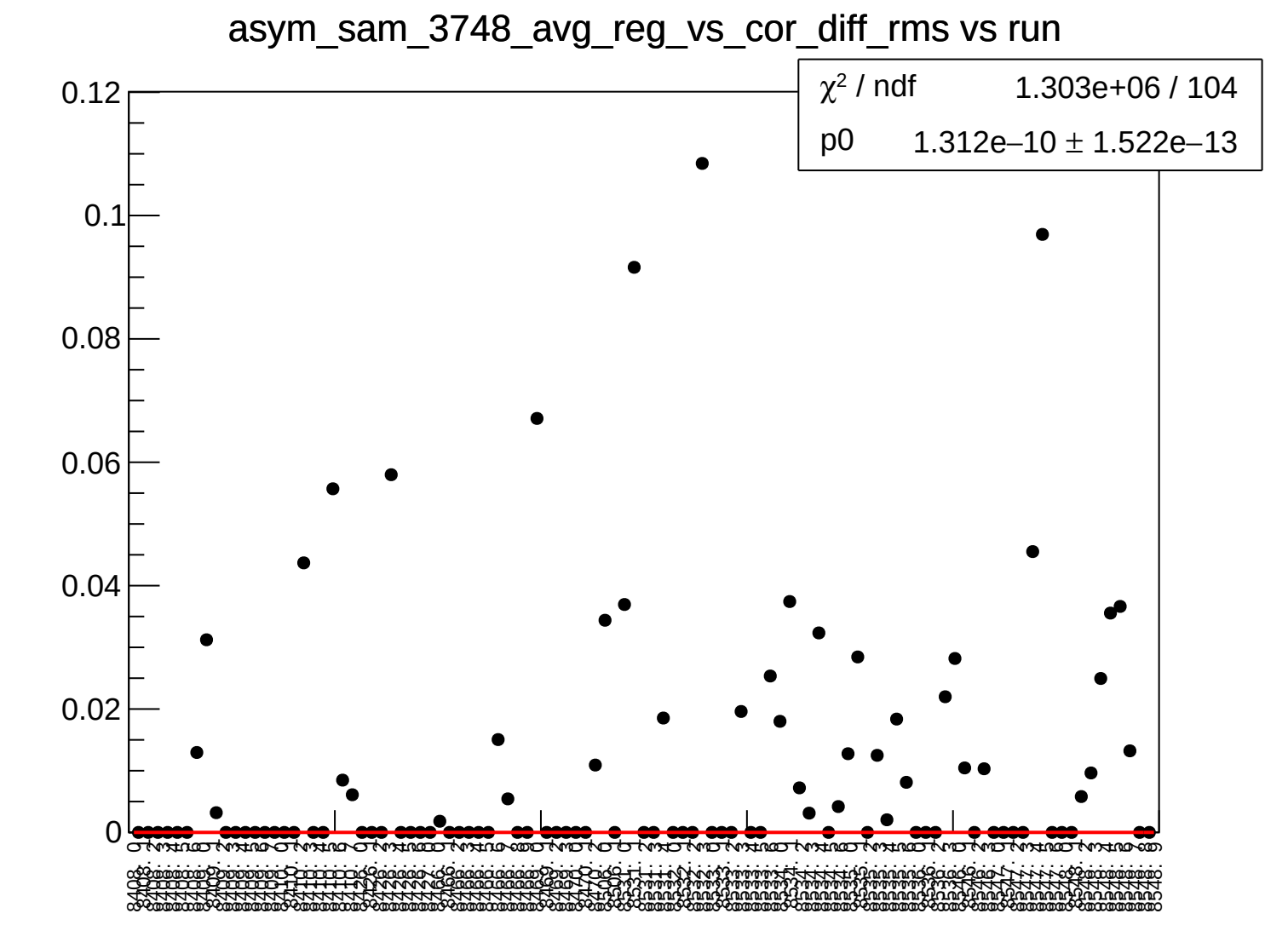

asym_sam_3748_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.693e+04 / 104
p0 1873 ± 1.315
2400
2200
2000
1800
1600

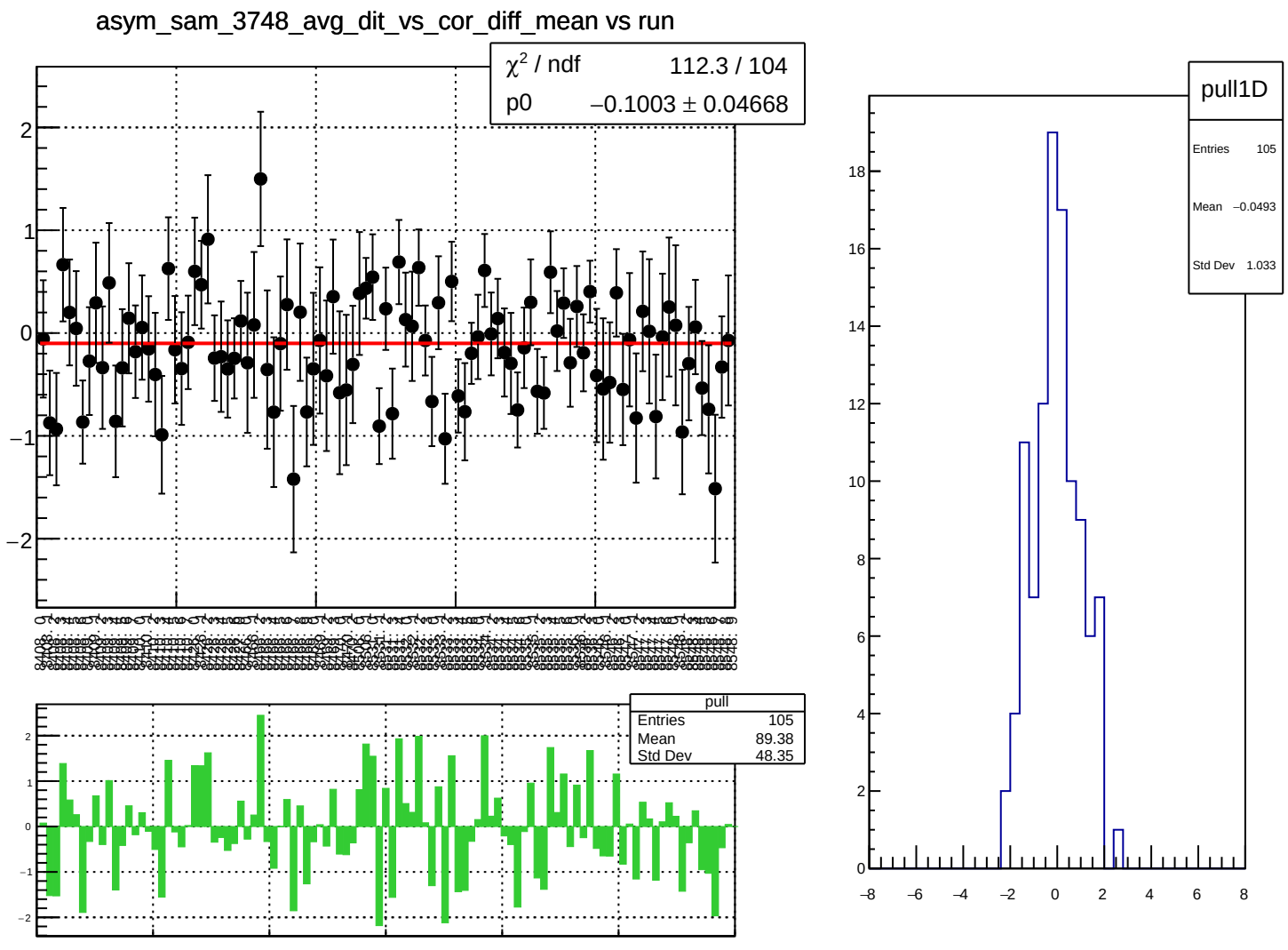

asym_sam_3748_avg_mean vs run
χ^2 / ndf 113.1 / 104
p0 6608 ± 1856
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 105
Mean 253.1
Std Dev 0
2
1
0
−1
−2

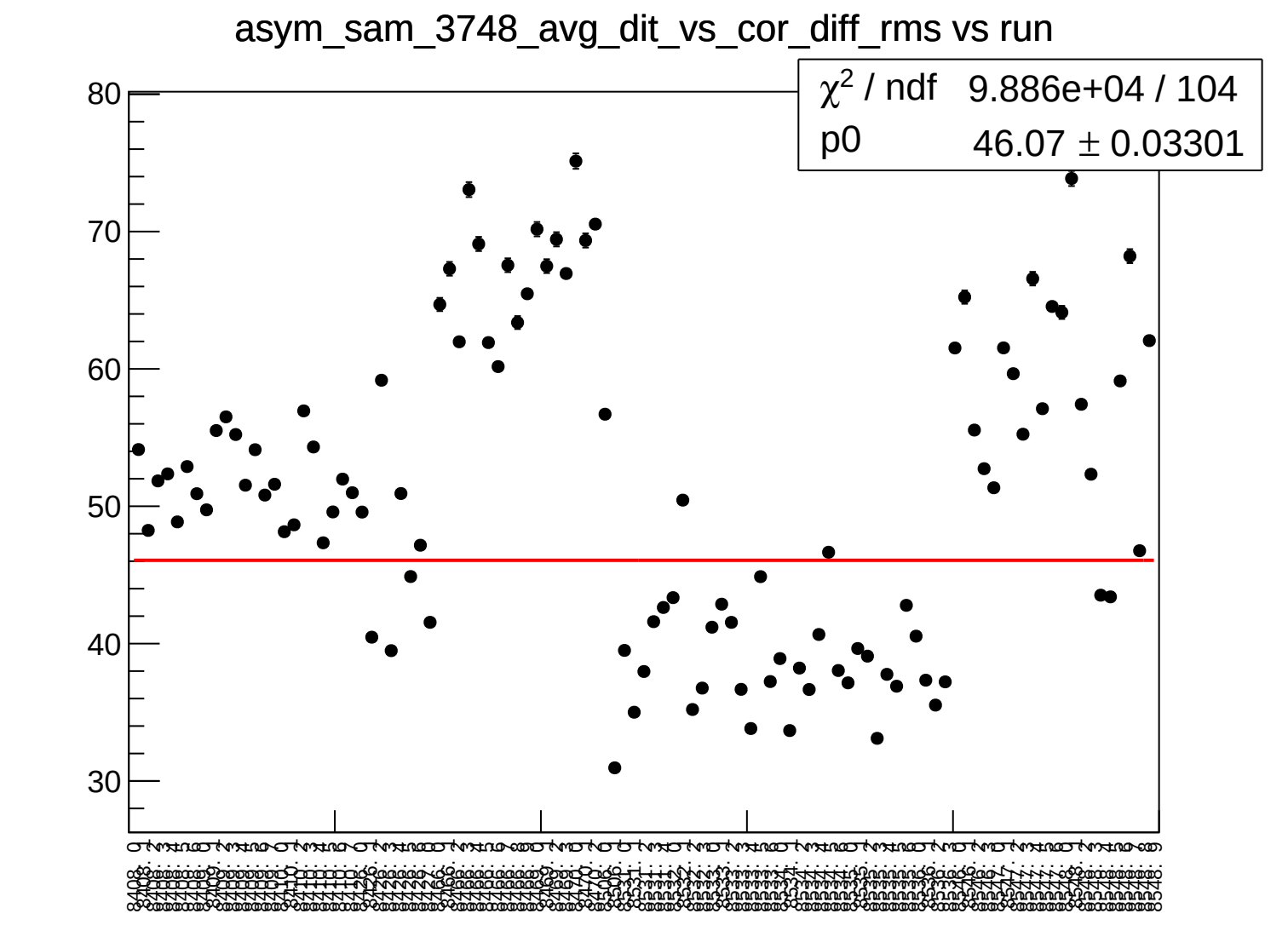

pull1D
Entries 105
Mean 0.005632
Std Dev 1.038
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

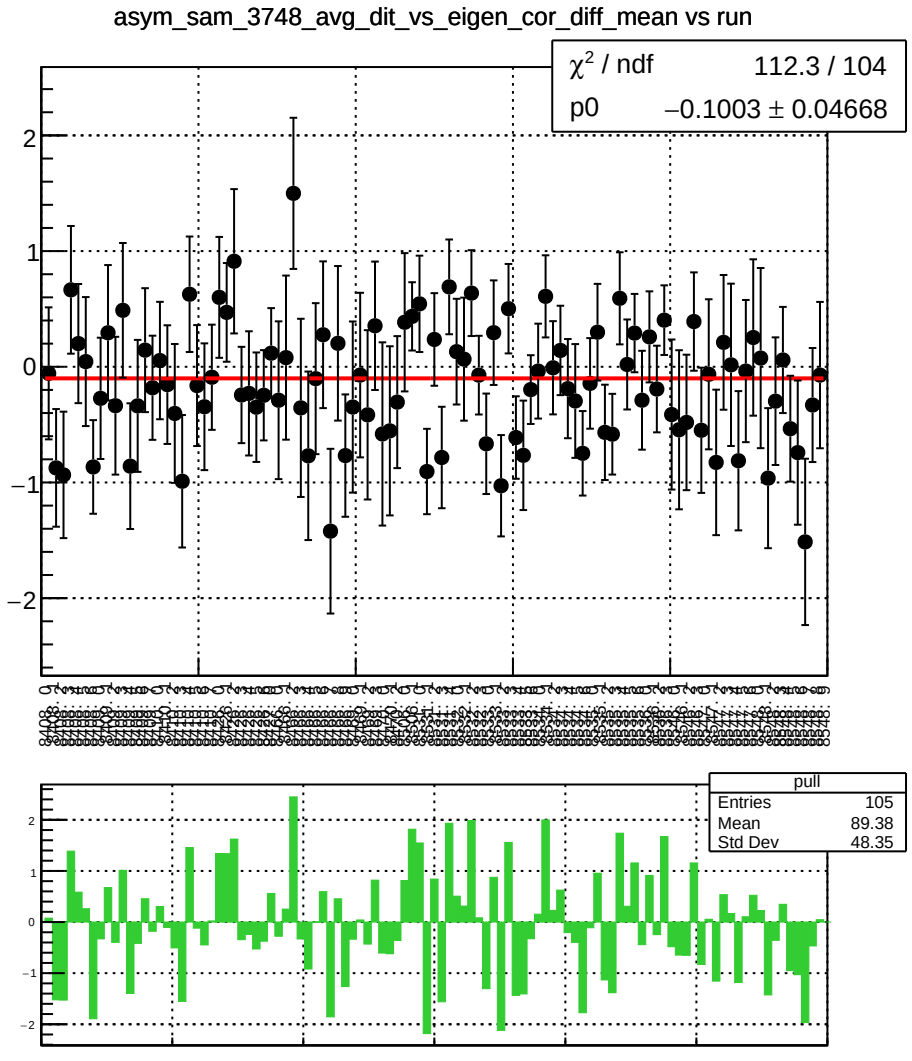

asym_sam_3748_avg_rms vs run
χ² / ndf 1.748e+04 / 104
p0 1870 ± 1.313
2400
2200
2000
1800
1600

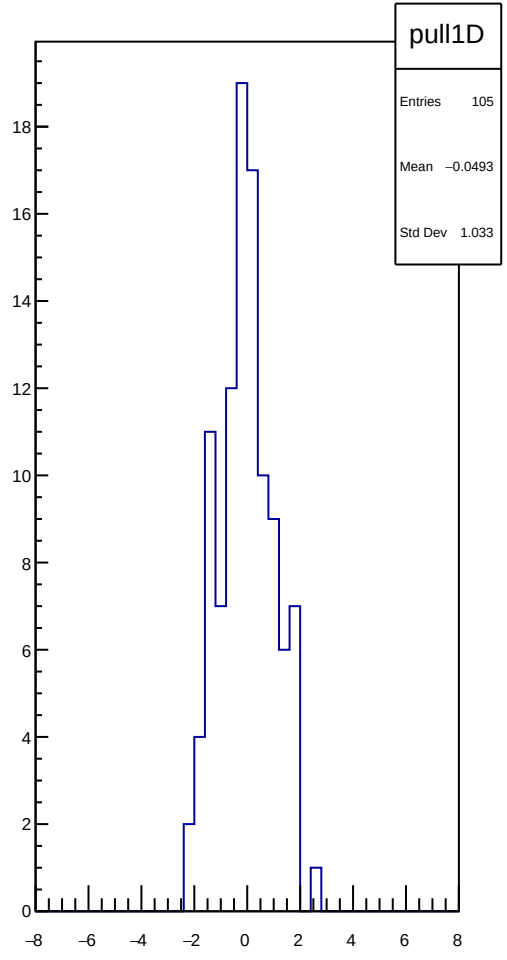

asym_sam_3748_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 114.6 / 104
p0 4.553e−14 ± 2.153e−13
0.003
0.002
0.001
0
−0.001
−0.002
−0.003
pull
Entries 105
Mean 10.91
Std Dev 0
pull1D
Entries 105
Mean −0.04779
Std Dev 1.044
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

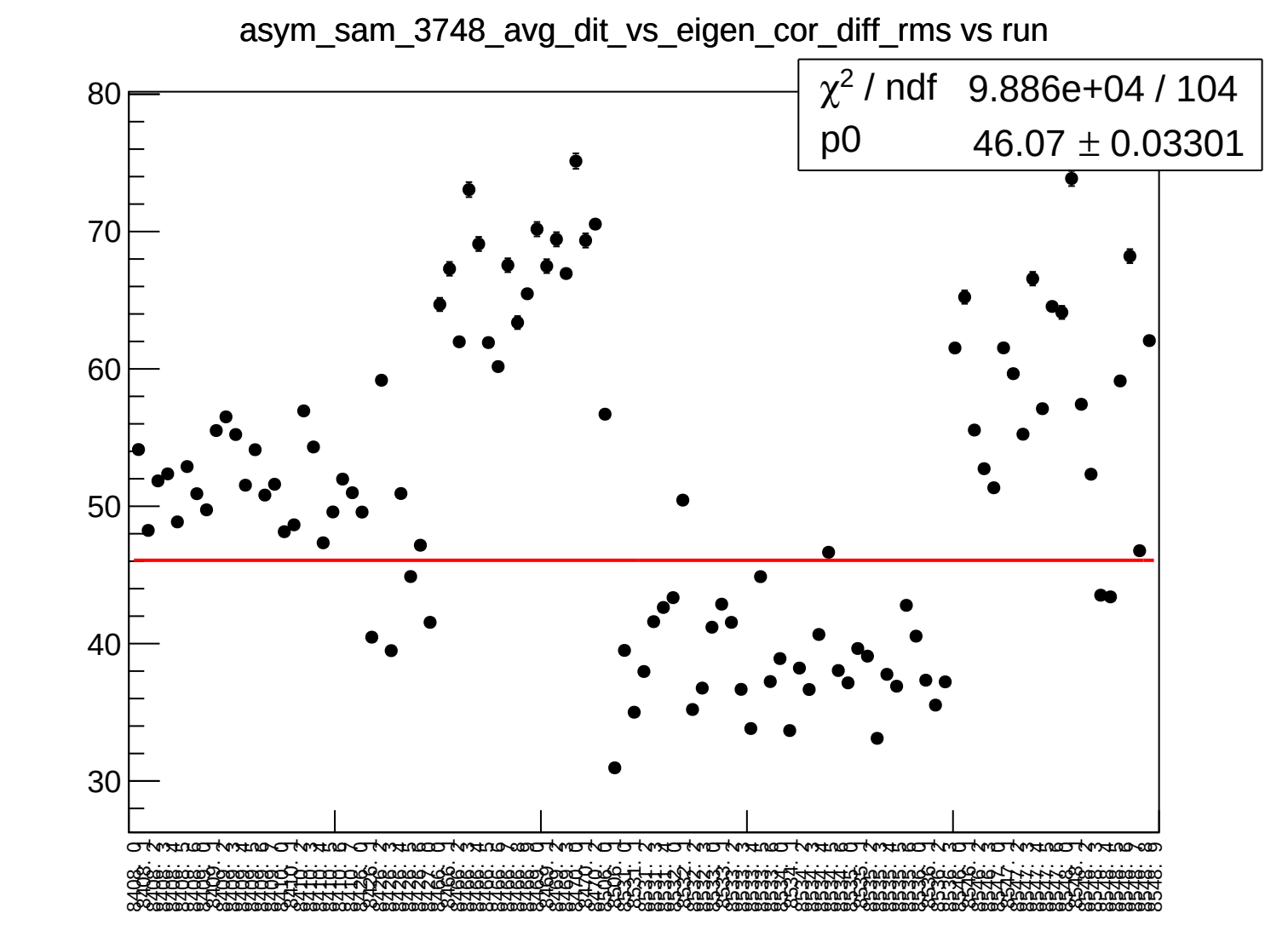

asym_sam_3748_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.303e+06 / 104
p0 1.312e−10 ± 1.522e−13
0.12
0.1
0.08
0.06
0.04
0.02
0

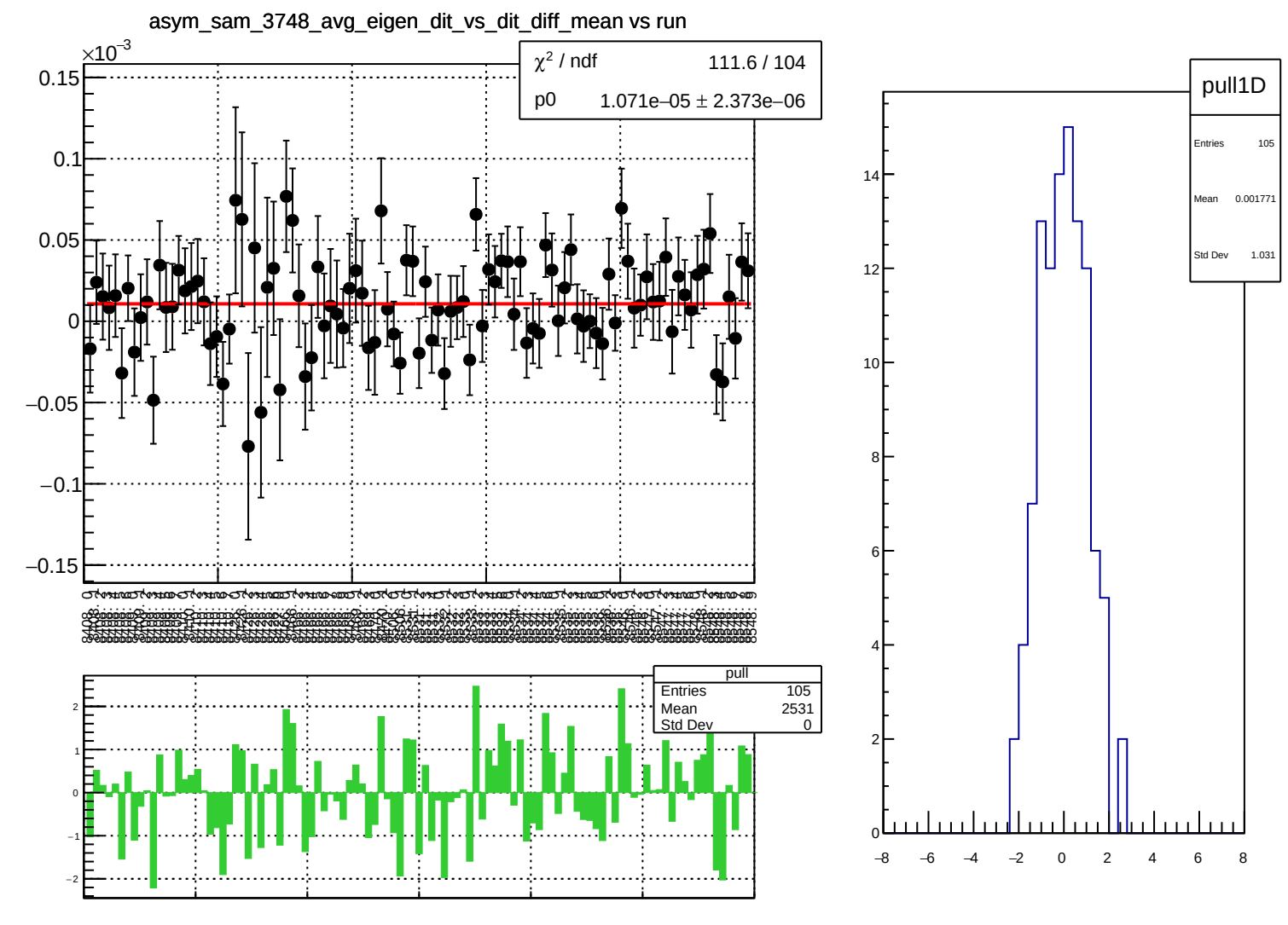

asym_sam_3748_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 112.3 / 104
p0 −0.1003 ± 0.04668
pull
Entries 105
Mean 89.38
Std Dev 48.35
pull1D
Entries 105
Mean −0.0493
Std Dev 1.033

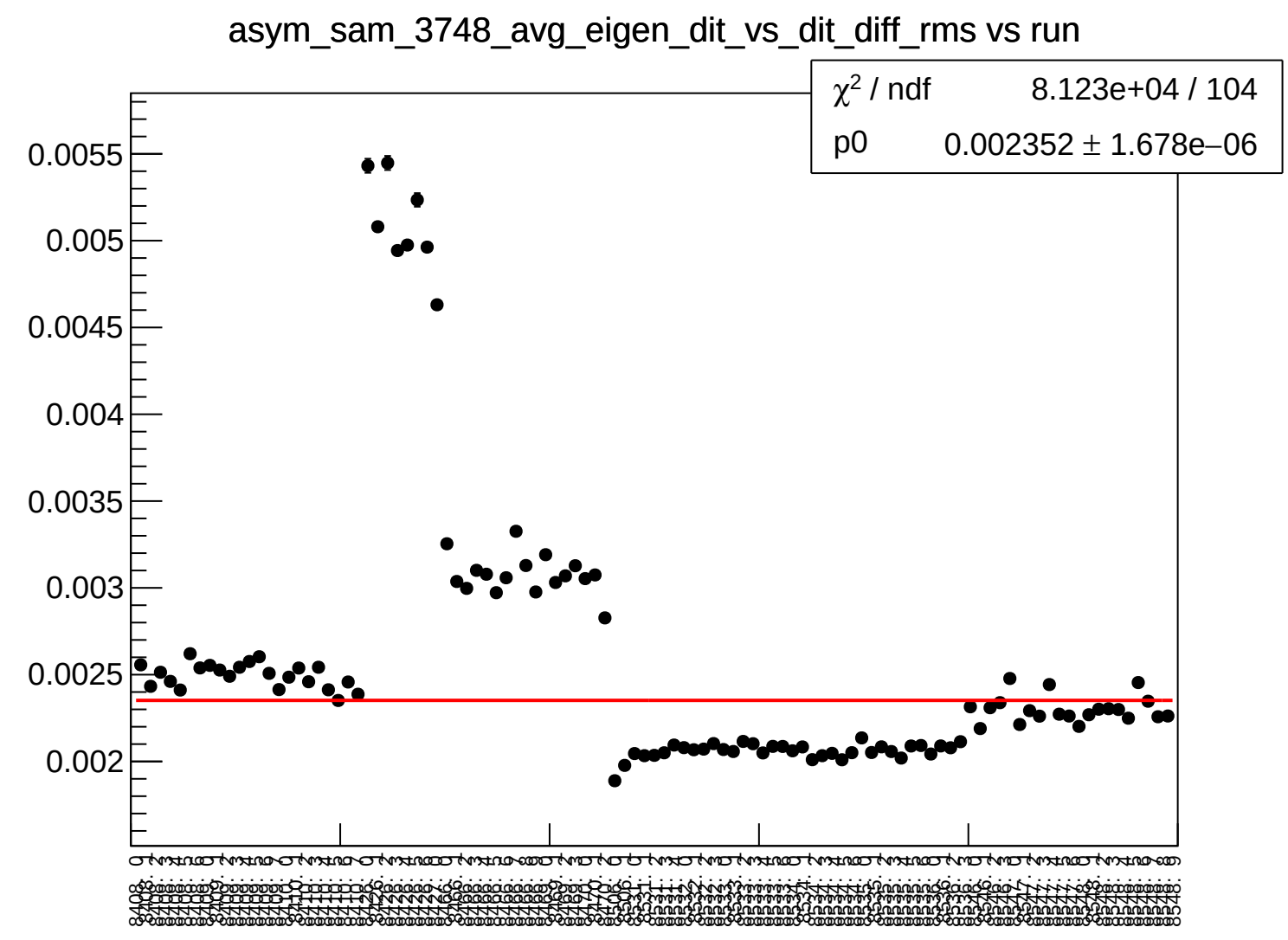

asym_sam_3748_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 9.886e+04 / 104
p0 46.07 ± 0.03301
80
70
60
50
40
30

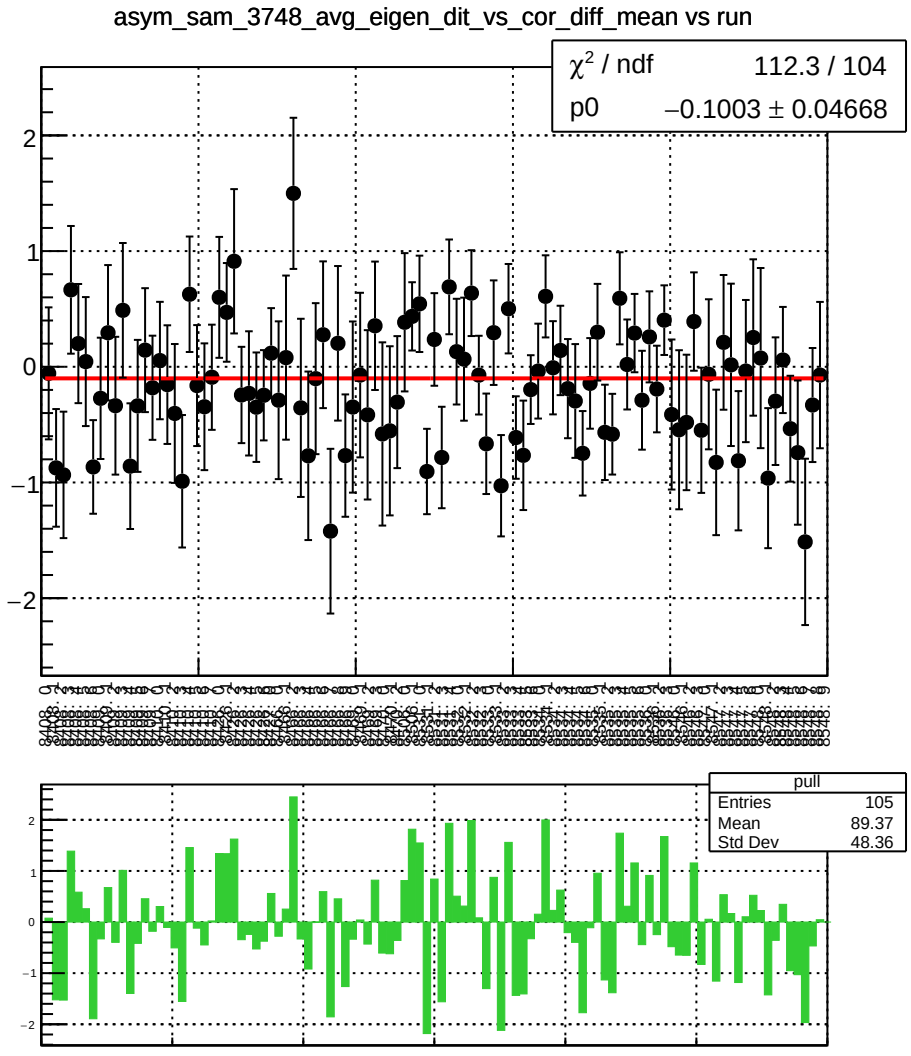

asym_sam_3748_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 112.3 / 104
p0 −0.1003 ± 0.04668
pull
Entries 105
Mean 89.38
Std Dev 48.35

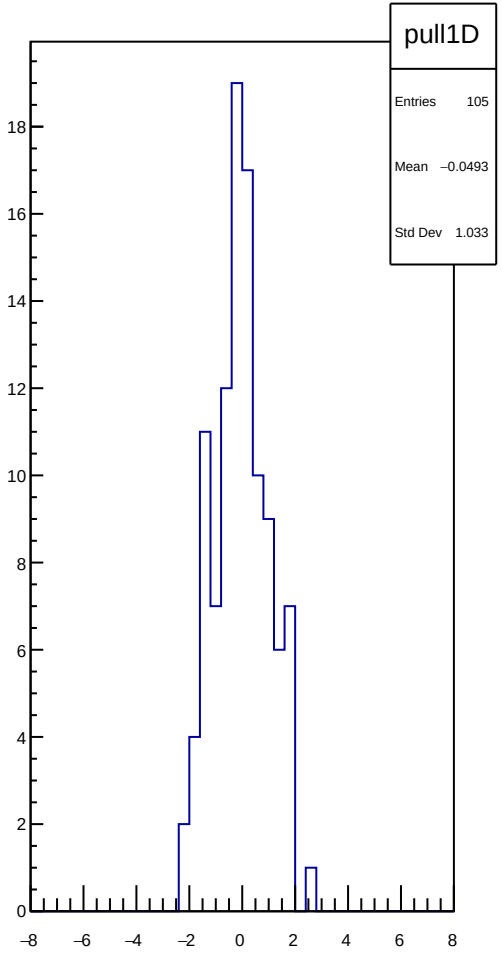

pull1D
Entries 105
Mean −0.0493
Std Dev 1.033

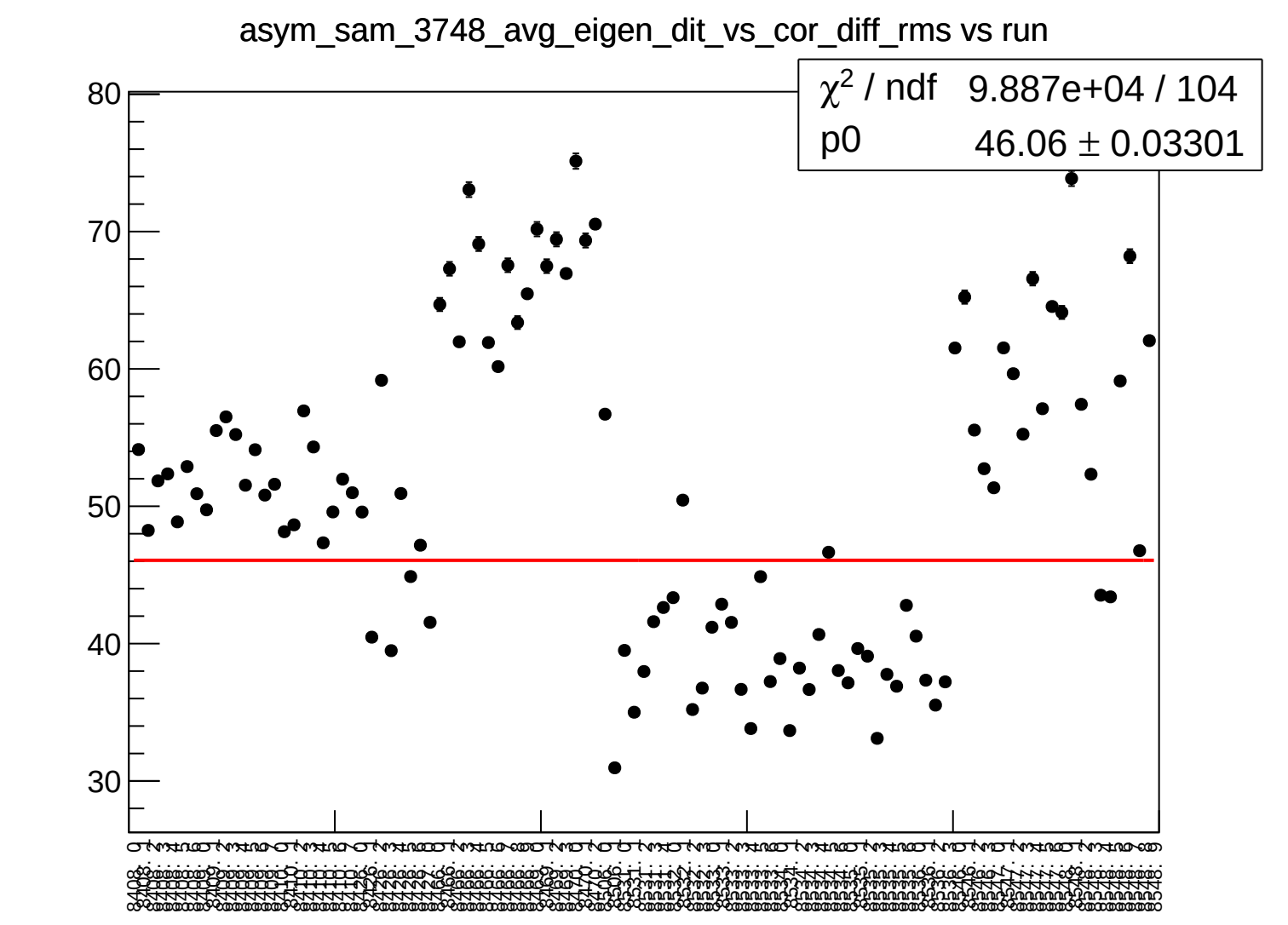

asym_sam_3748_avg_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 9.886e+04 / 104
p0 46.07 ± 0.03301
80
70
60
50
40
30

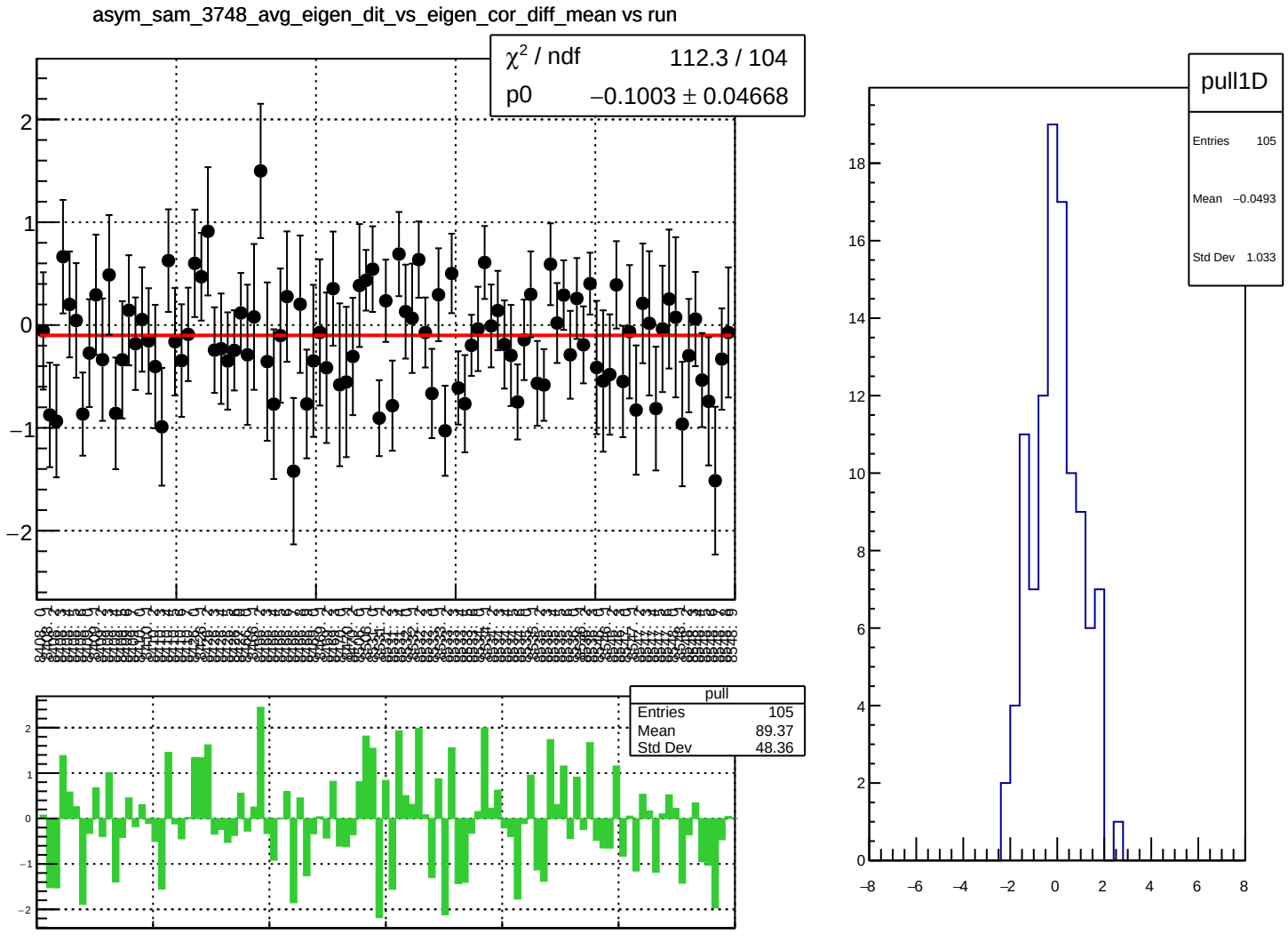

asym_sam_3748_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 111.6 / 104
p0 1.071e−05 ± 2.373e−06
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
pull
Entries 105
Mean 2531
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.001771
Std Dev 1.031
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

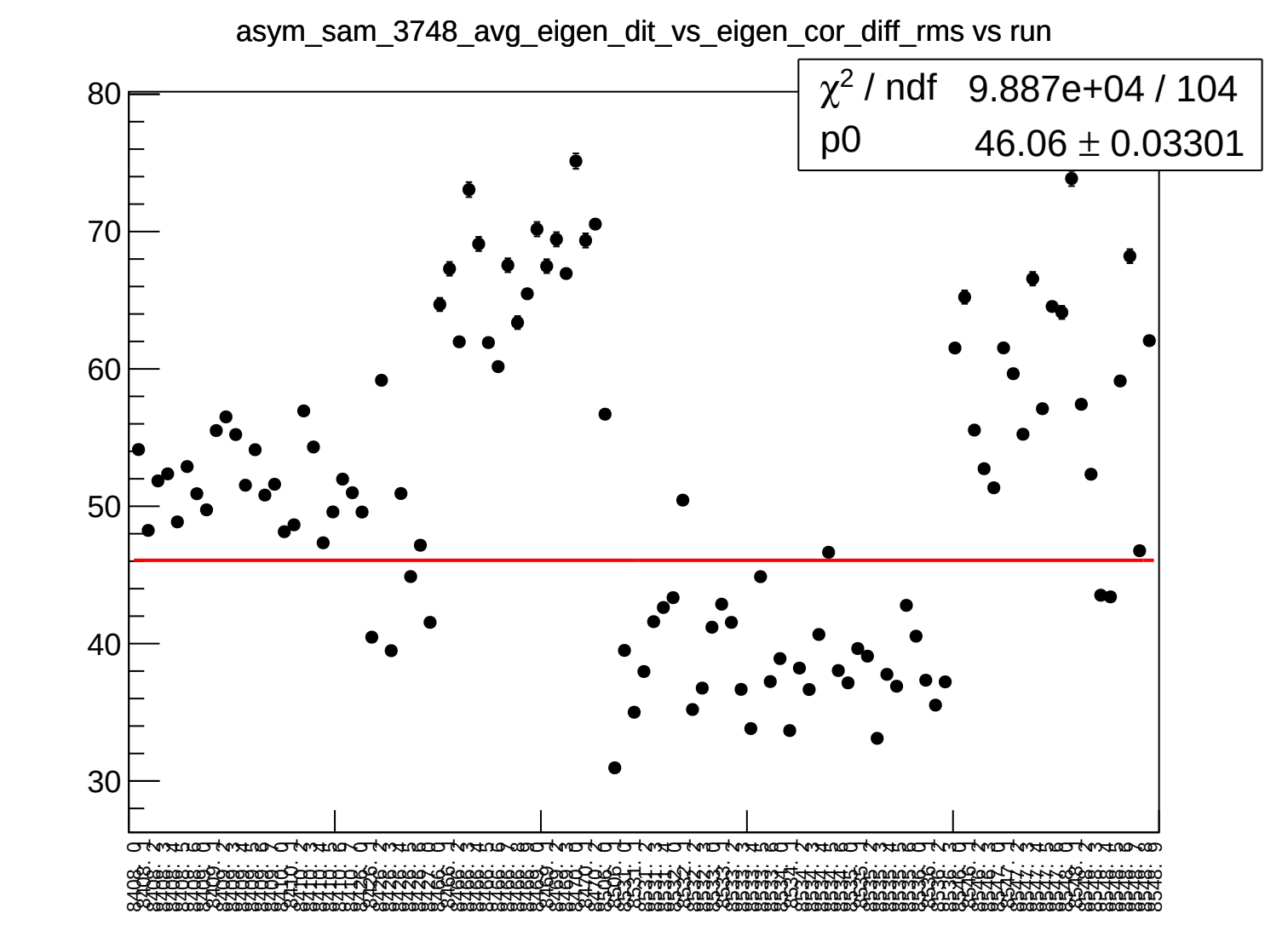

asym_sam_3748_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 8.123e+04 / 104
p0 0.002352 ± 1.678e−06
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002

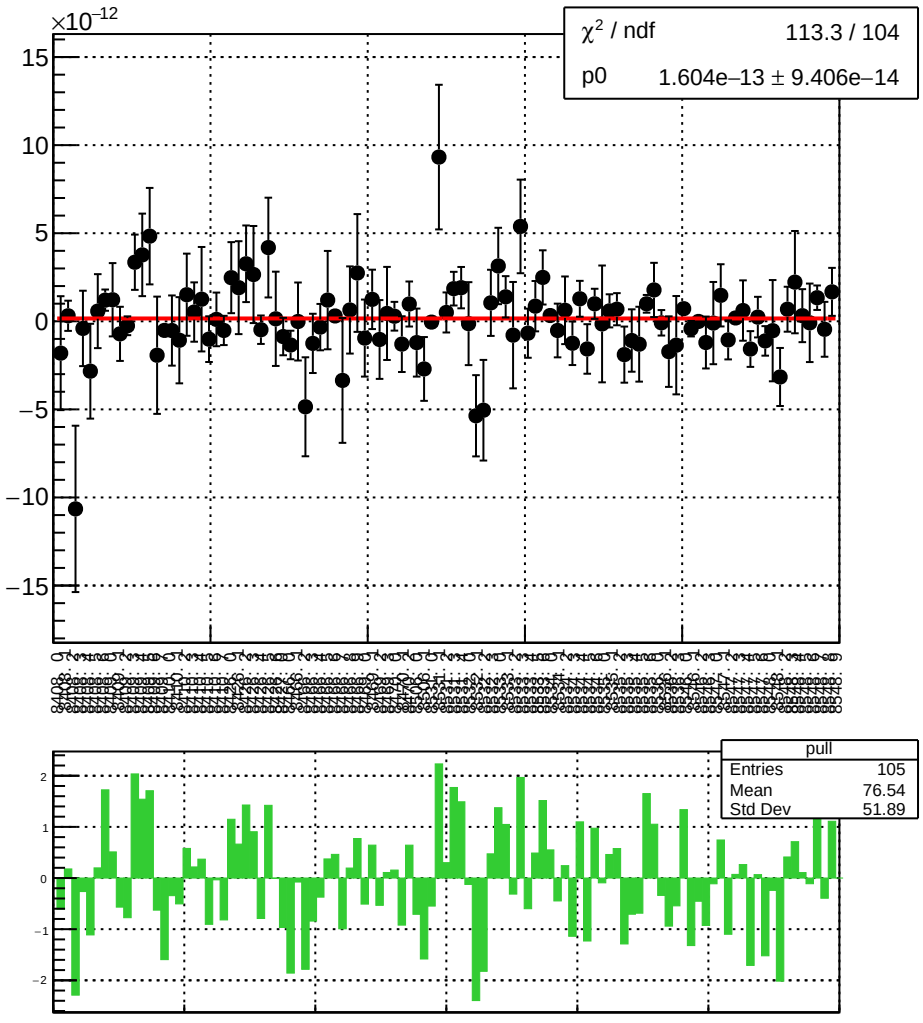

asym_sam_3748_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 112.3 / 104
p0 −0.1003 ± 0.04668
pull
Entries 105
Mean 89.37
Std Dev 48.36

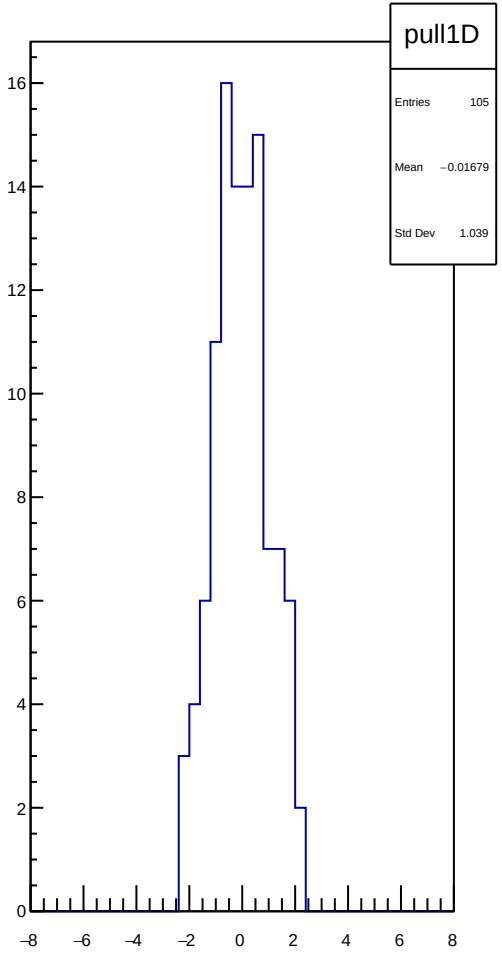

pull1D
Entries 105
Mean −0.0493
Std Dev 1.033

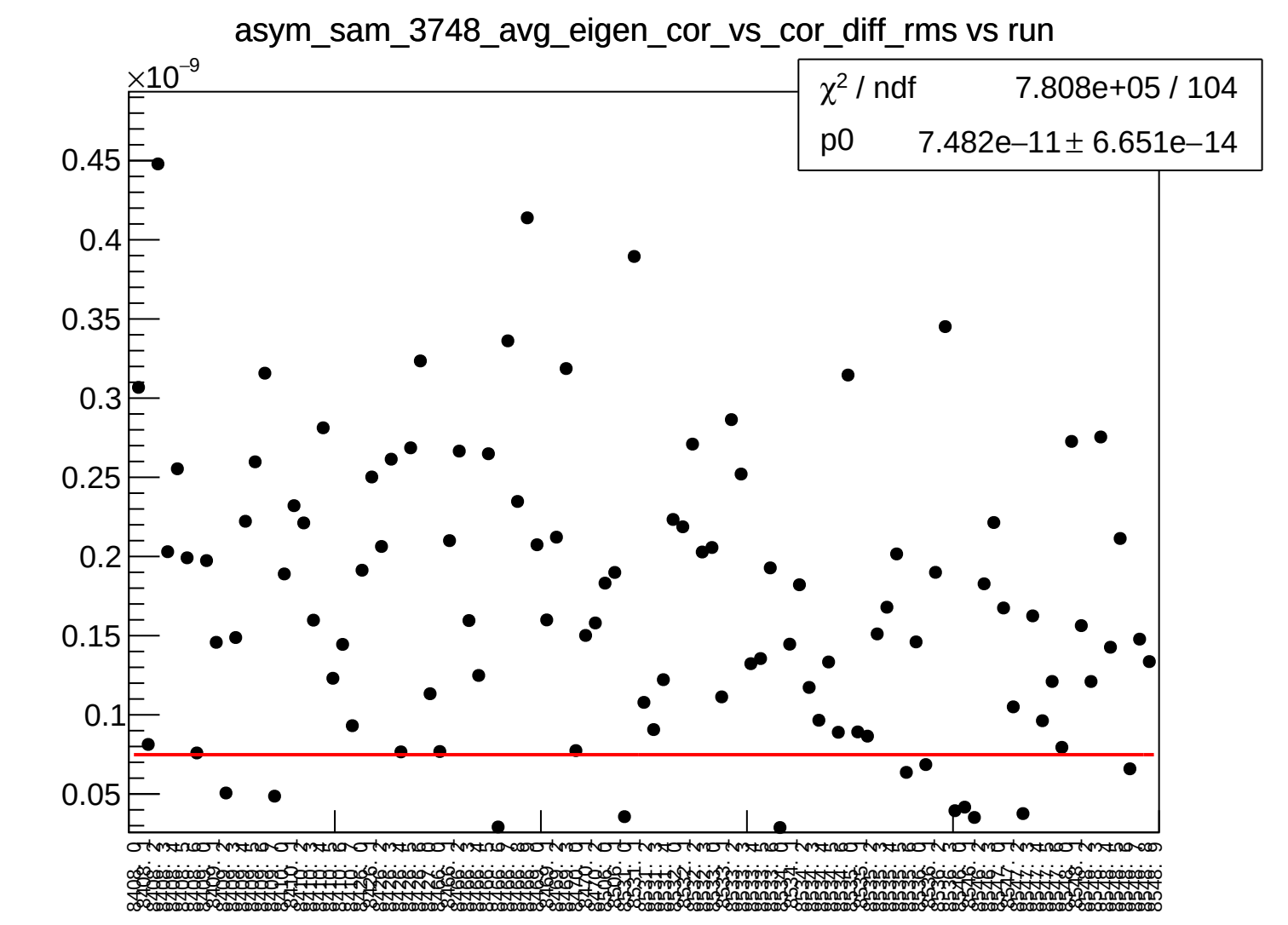

asym_sam_3748_avg_eigen_dit_vs_cor_diff_rms vs run
χ^2 / ndf 9.887e+04 / 104
p0 46.06 ± 0.03301
80
70
60
50
40
30

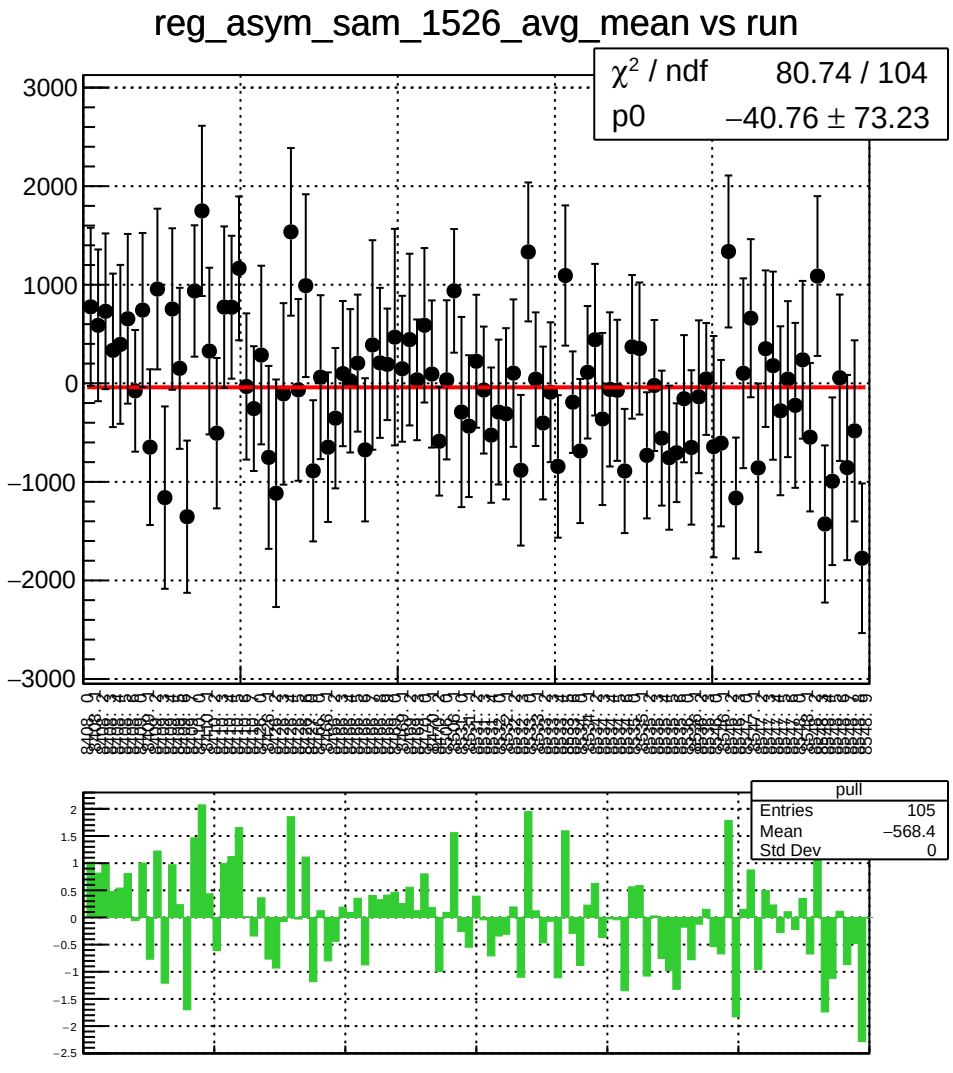

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 112.3 / 104
p0 −0.1003 ± 0.04668
pull
Entries 105
Mean 89.37
Std Dev 48.36
pull1D
Entries 105
Mean −0.0493
Std Dev 1.033

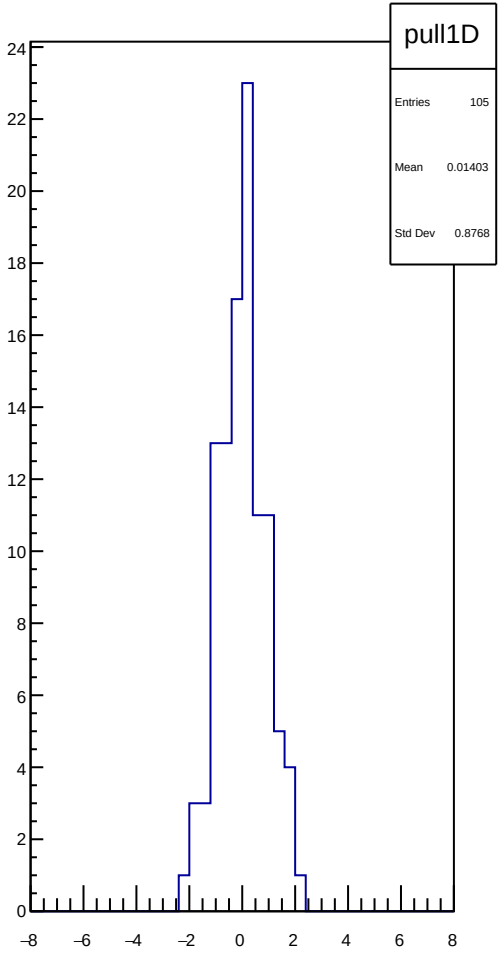

asym_sam_3748_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.887e+04 / 104
p0 46.06 ± 0.03301
80
70
60
50
40
30

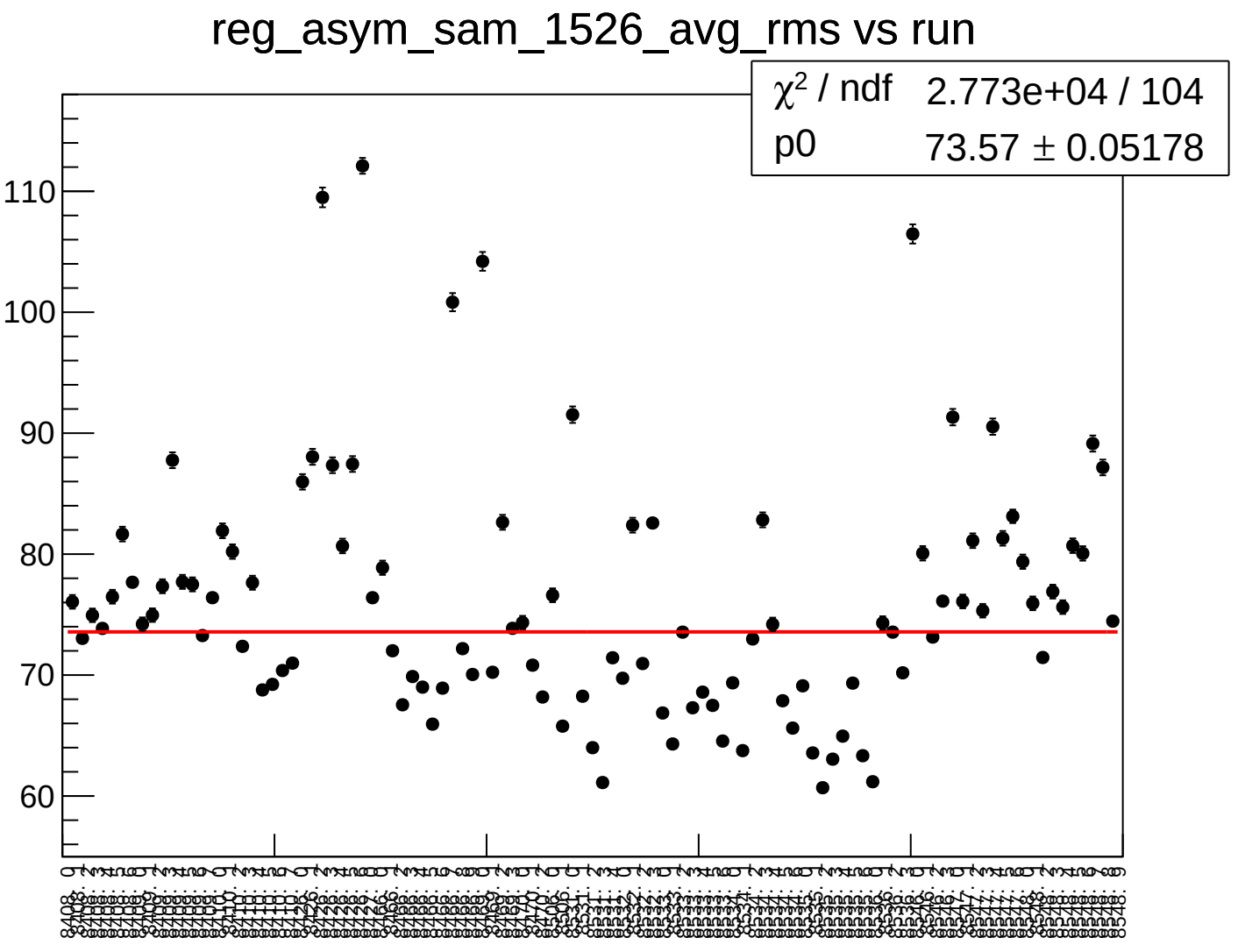

asym_sam_3748_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 113.3 / 104
p0 1.604e−13 ± 9.406e−14
pull
Entries 105
Mean 76.54
Std Dev 51.89

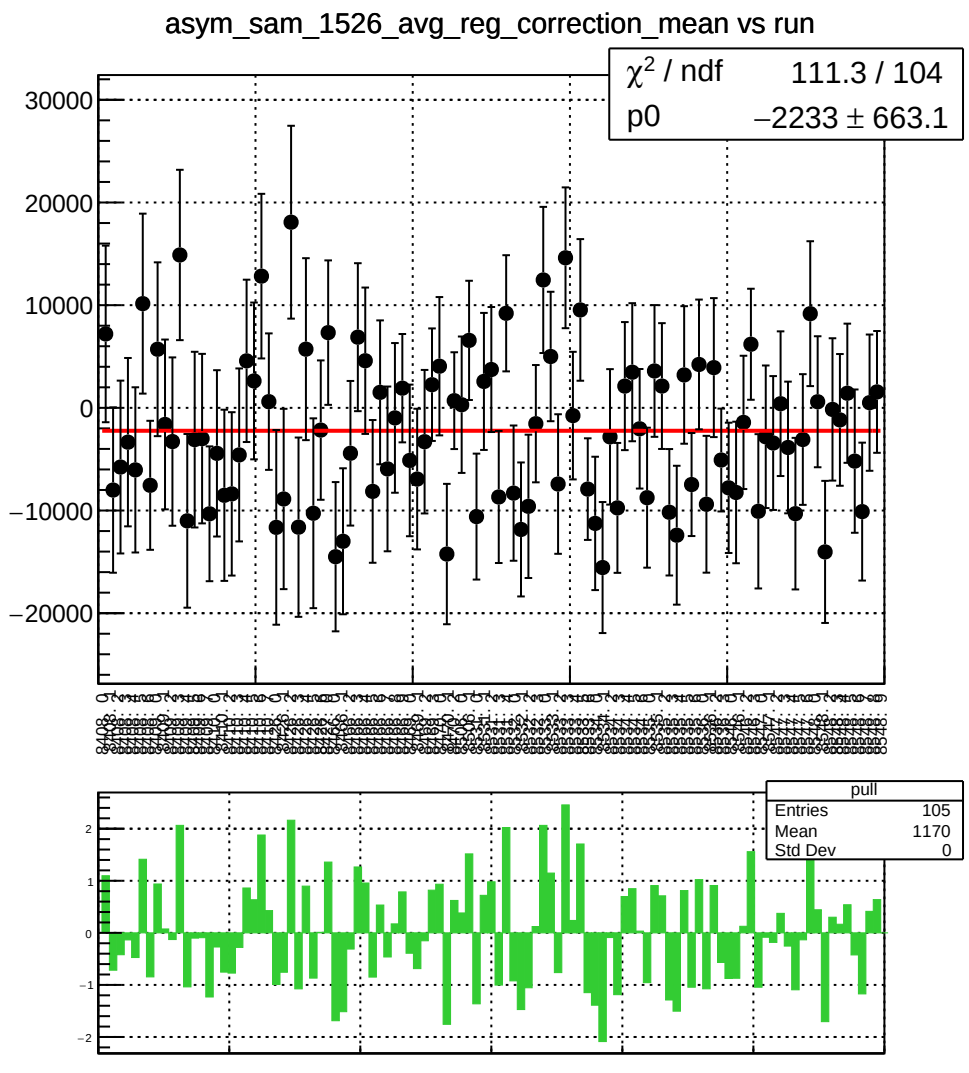

pull1D
Entries 105
Mean −0.01679
Std Dev 1.039

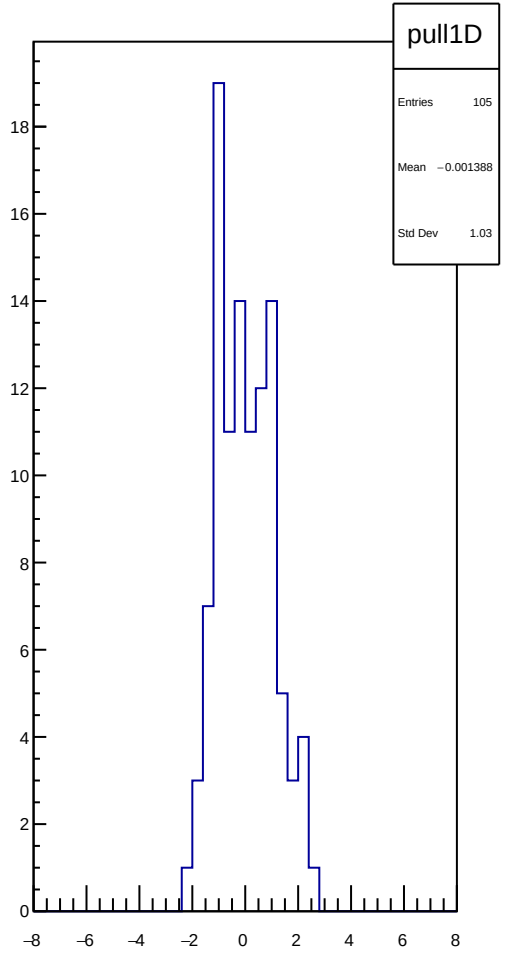

asym_sam_3748_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.808e+05 / 104
p0 7.482e−11 ± 6.651e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

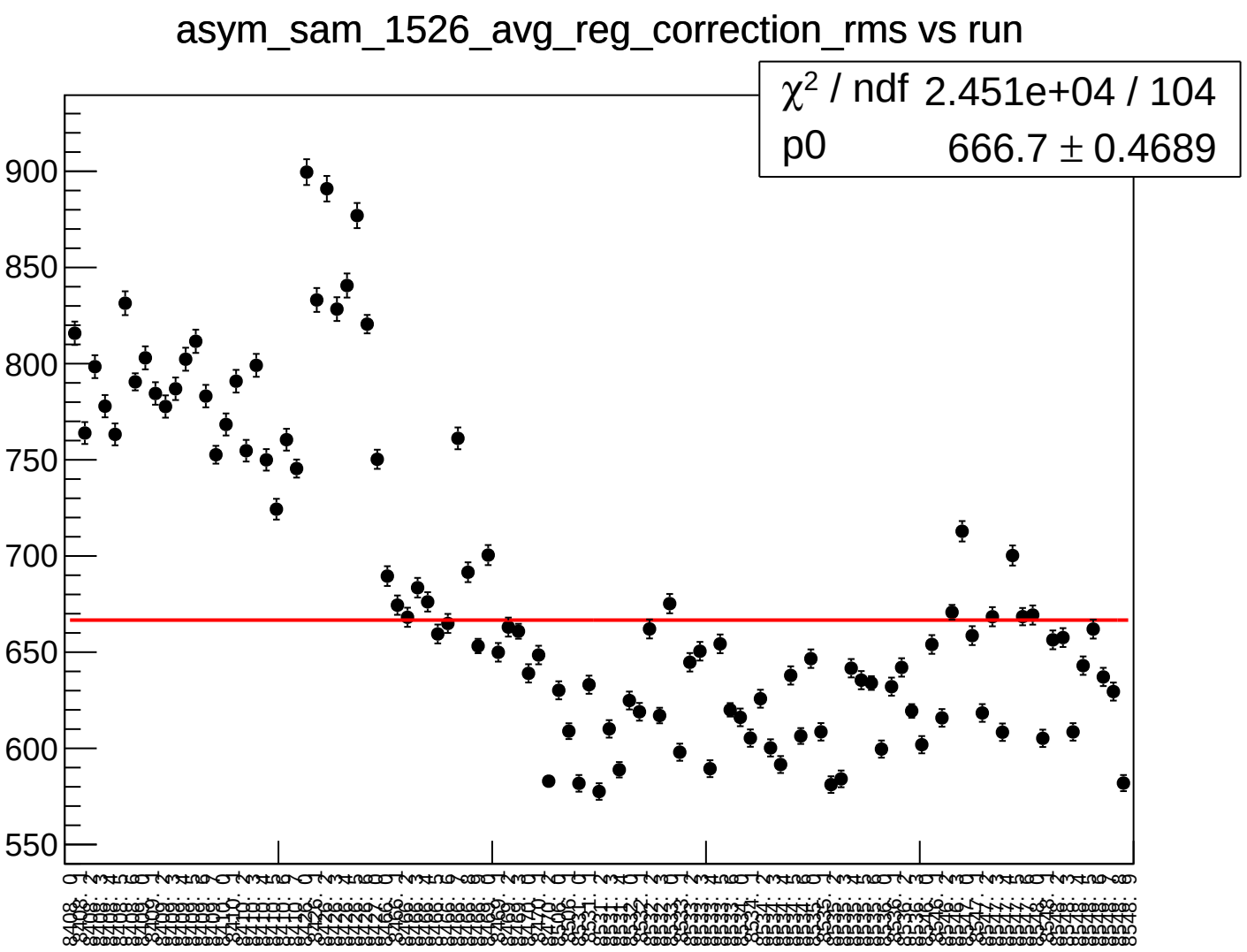

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 80.74 / 104
p0 −40.76 ± 73.23
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 105
Mean −568.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

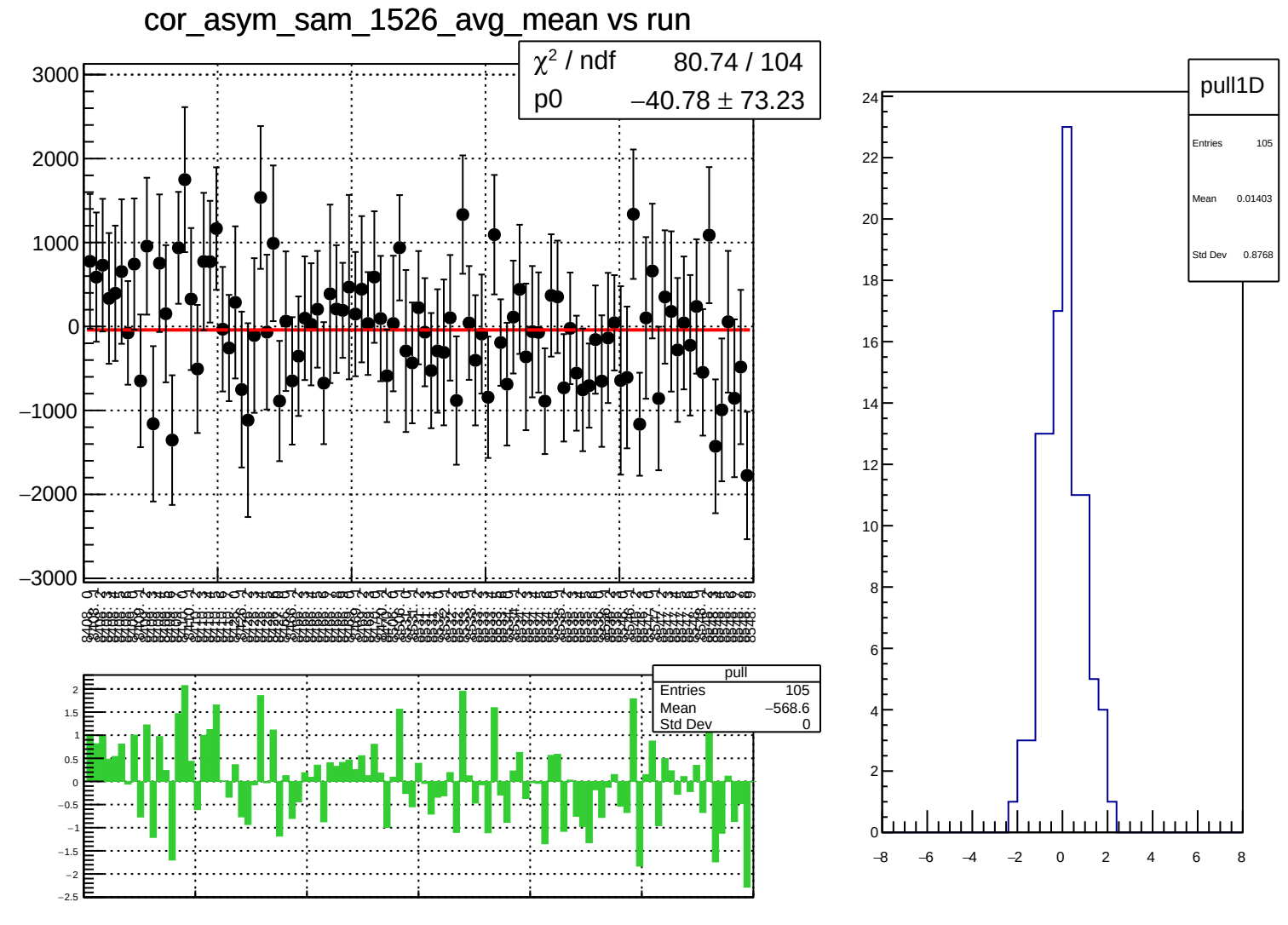

pull1D
Entries 105
Mean 0.01403
Std Dev 0.8768
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

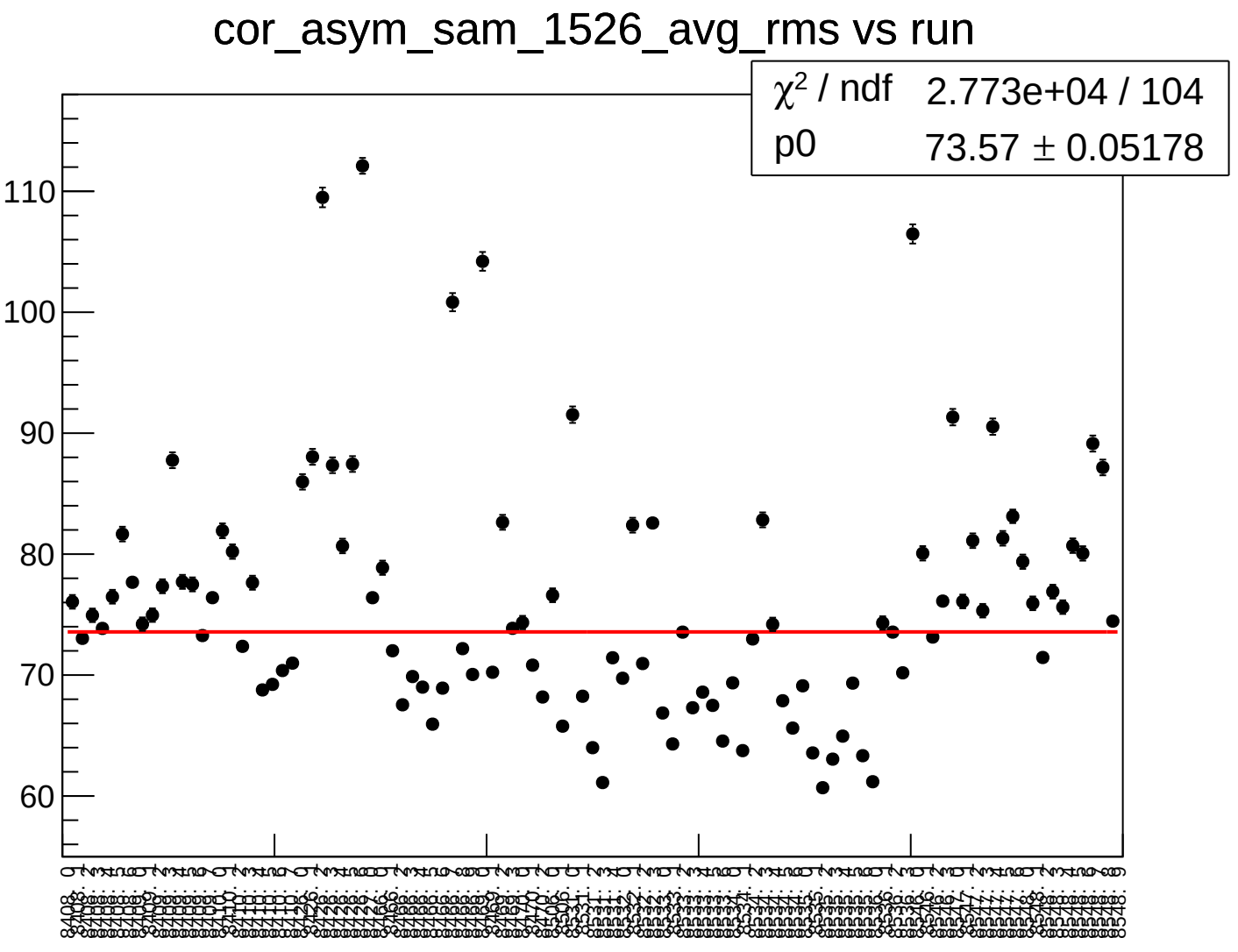

reg_asym_sam_1526_avg_rms vs run
χ^2 / ndf 2.773e+04 / 104
p0 73.57 ± 0.05178
110
100
90
80
70
60

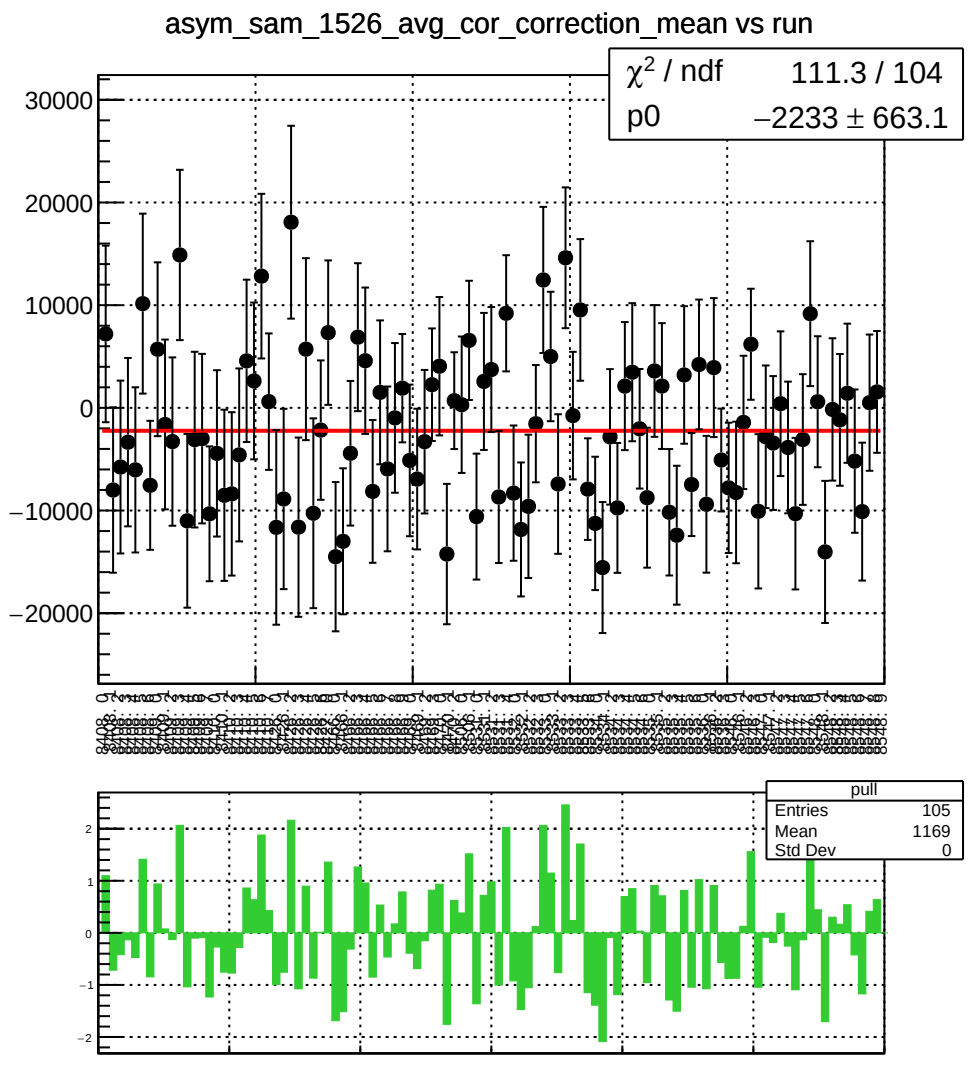

asym_sam_1526_avg_reg_correction_mean vs run
χ² / ndf 111.3 / 104
p0 −2233 ± 663.1
30000
20000
10000
0
−10000
−20000
pull
Entries 105
Mean 1170
Std Dev 0
2
1
0
−1
−2

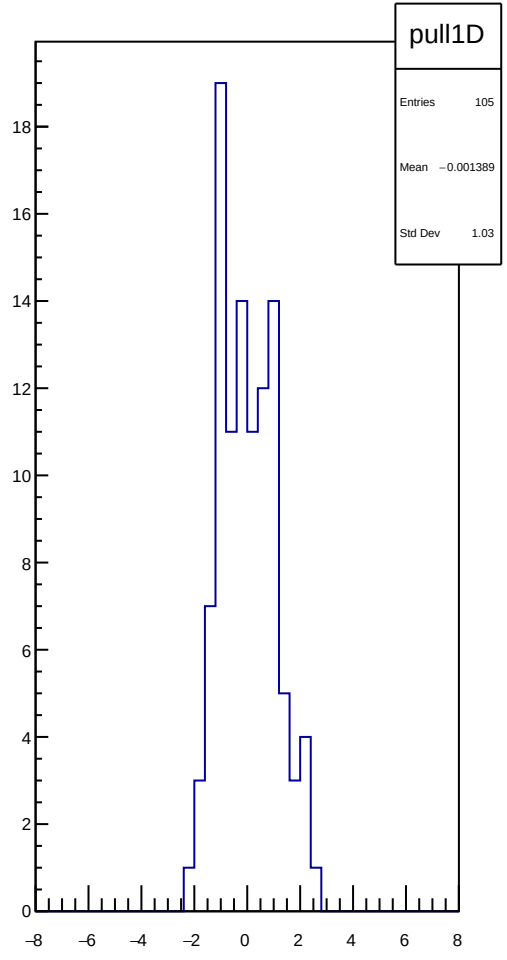

pull1D
Entries 105
Mean −0.001388
Std Dev 1.03
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

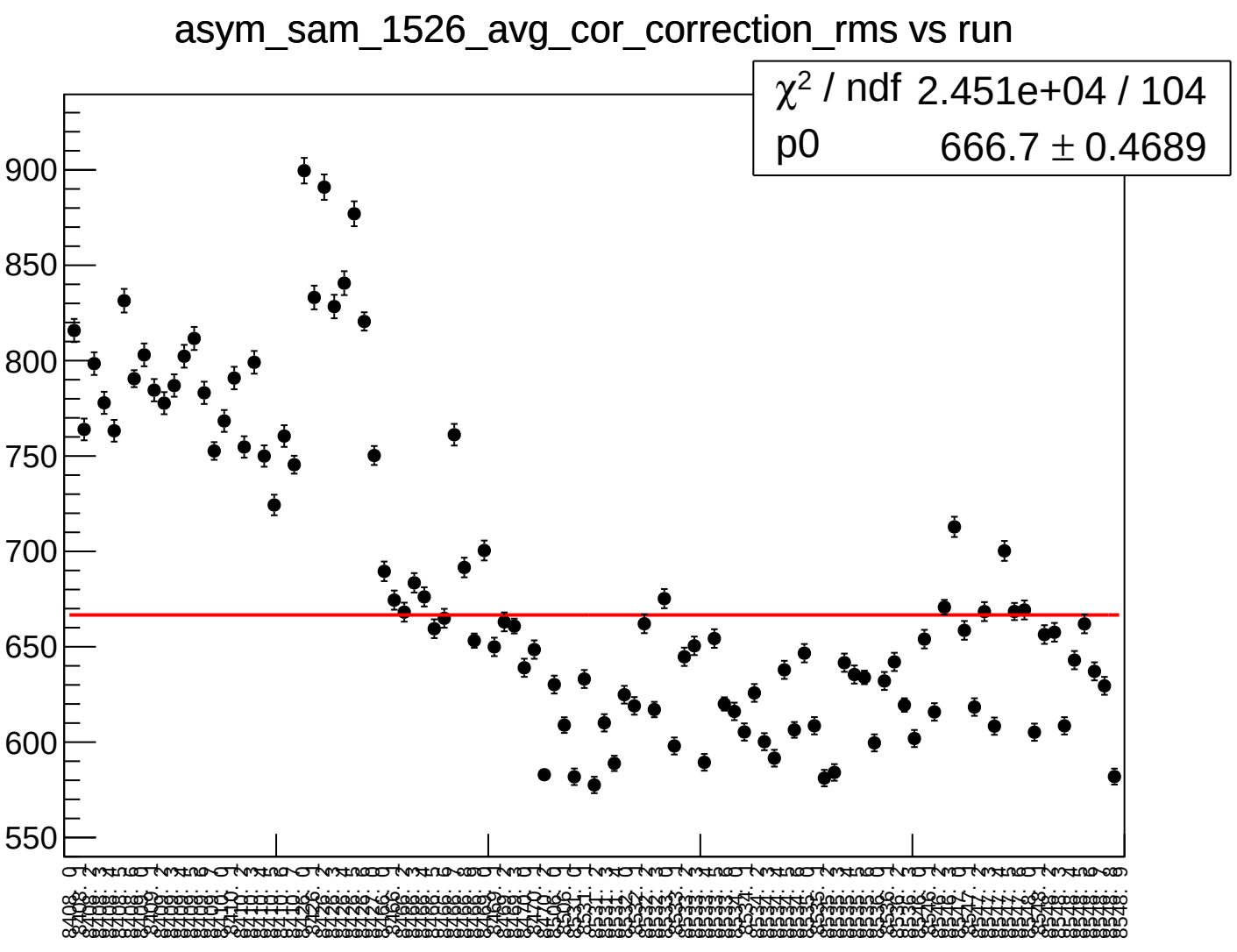

asym_sam_1526_avg_reg_correction_rms vs run
χ² / ndf 2.451e+04 / 104
p0 666.7 ± 0.4689
900
850
800
750
700
650
600
550

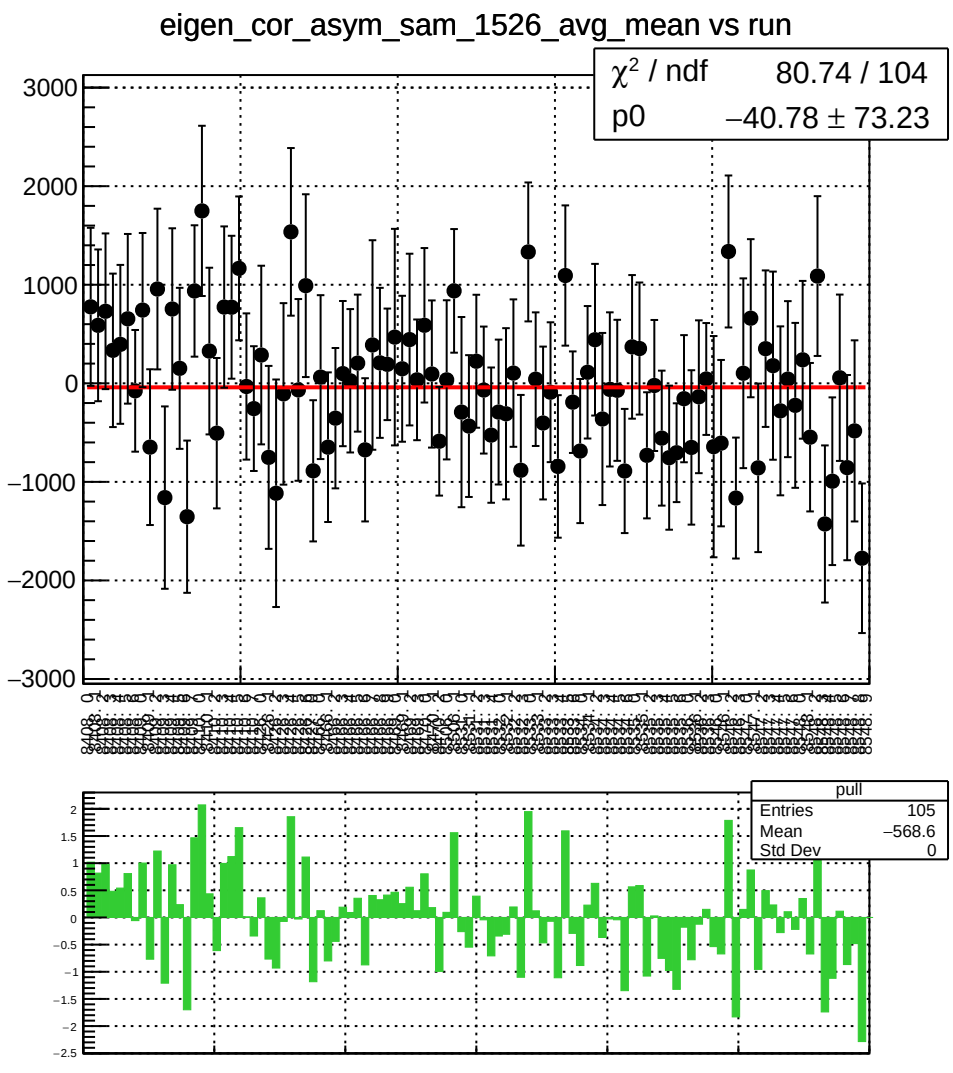

cor_asym_sam_1526_avg_mean vs run
χ² / ndf 80.74 / 104
p0 −40.78 ± 73.23
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 105
Mean −568.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 105
Mean 0.01403
Std Dev 0.8768
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

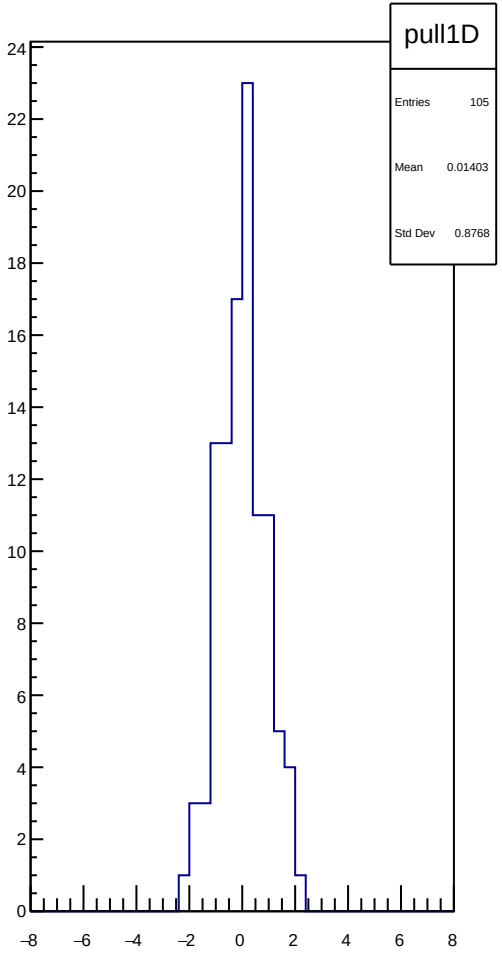

cor_asym_sam_1526_avg_rms vs run
χ^2 / ndf 2.773e+04 / 104
p0 73.57 ± 0.05178
110
100
90
80
70
60

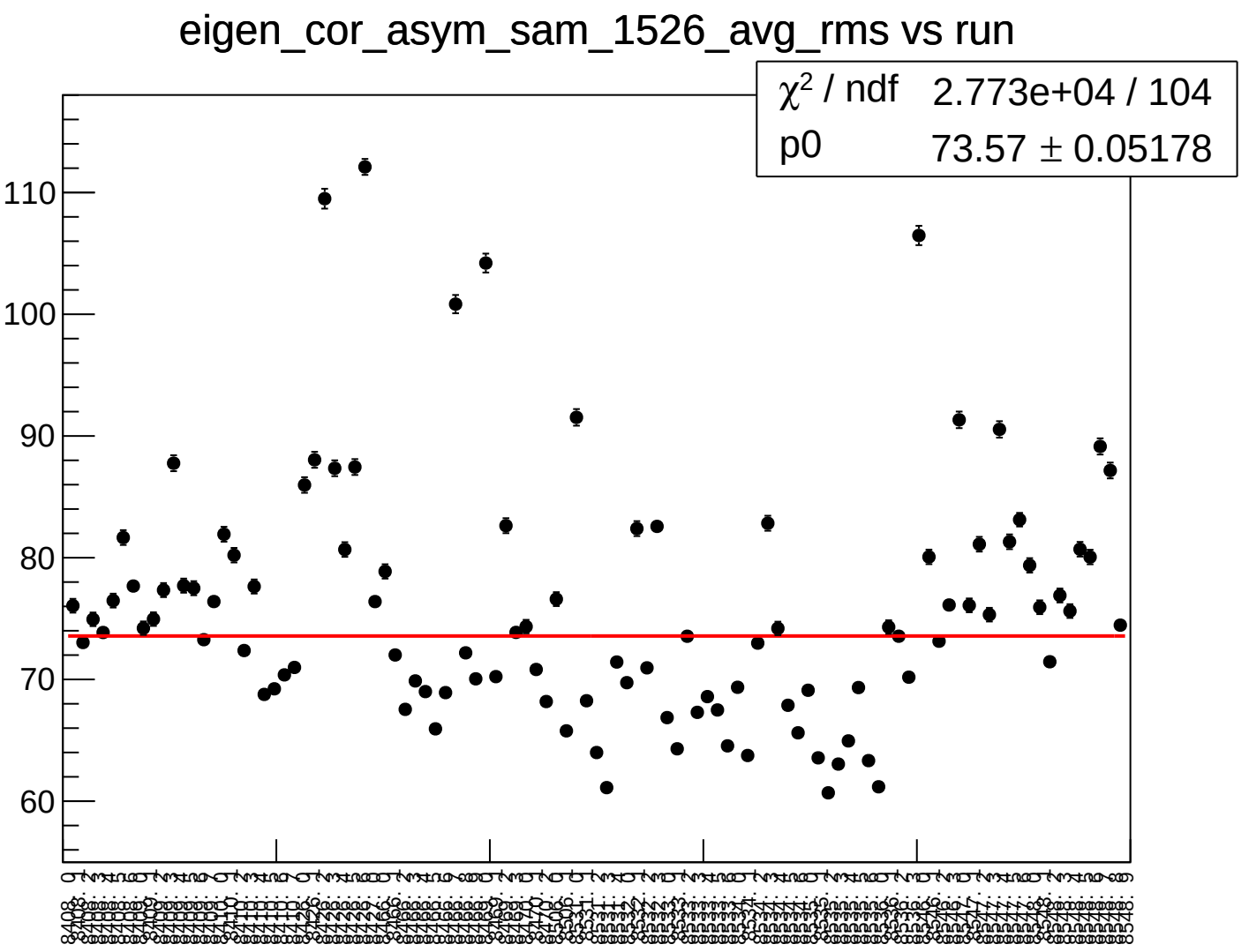

asym_sam_1526_avg_cor_correction_mean vs run
χ² / ndf 111.3 / 104
p0 −2233 ± 663.1
30000
20000
10000
0
−10000
−20000
pull
Entries 105
Mean 1169
Std Dev 0
2
1
0
−1
−2

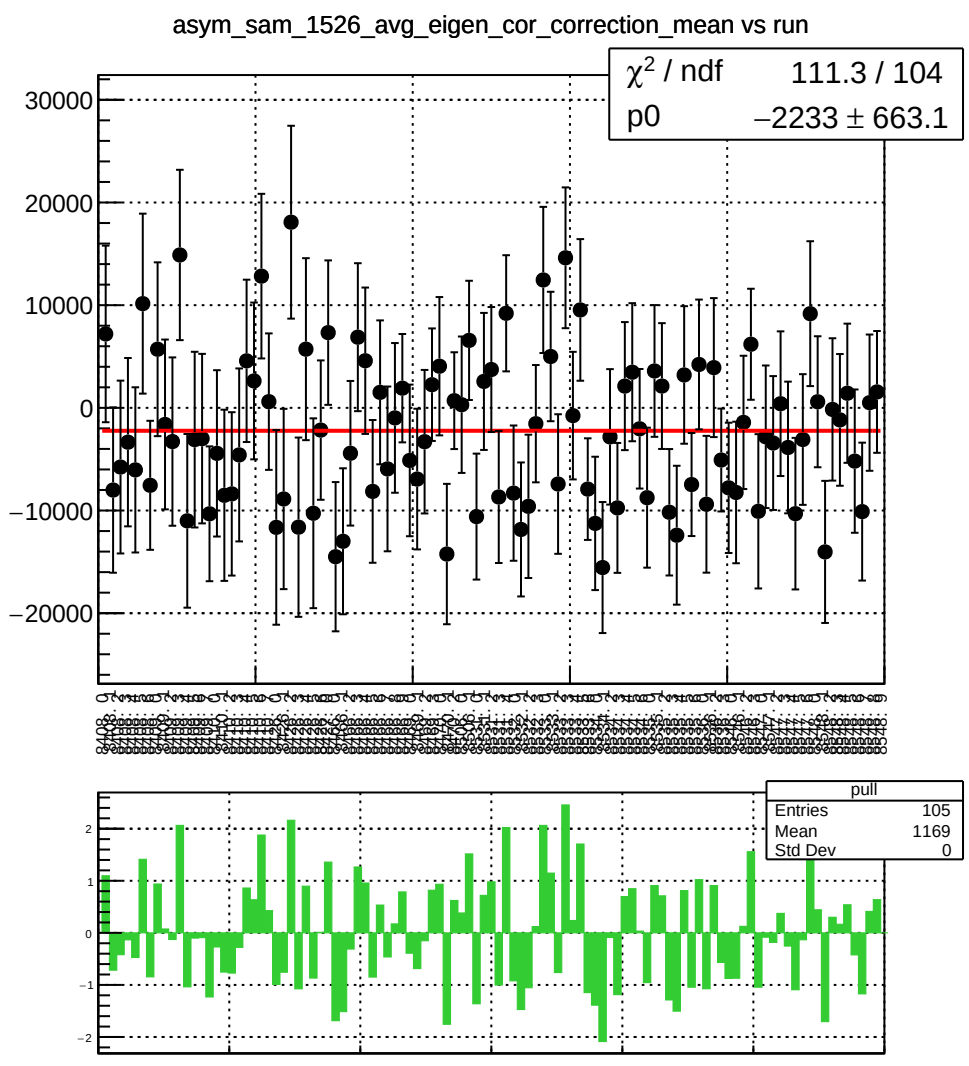

pull1D
Entries 105
Mean −0.001389
Std Dev 1.03
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

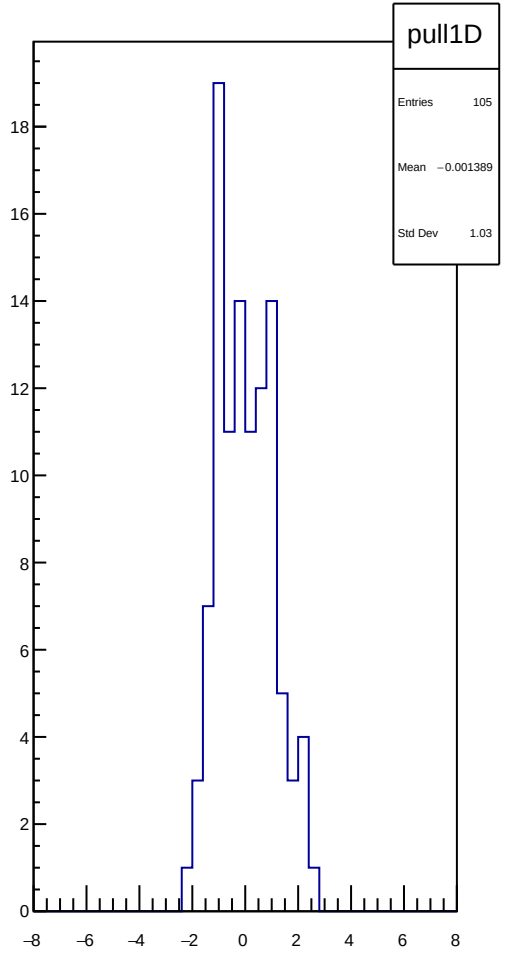

asym_sam_1526_avg_cor_correction_rms vs run
χ² / ndf 2.451e+04 / 104
p0 666.7 ± 0.4689
900
850
800
750
700
650
600
550

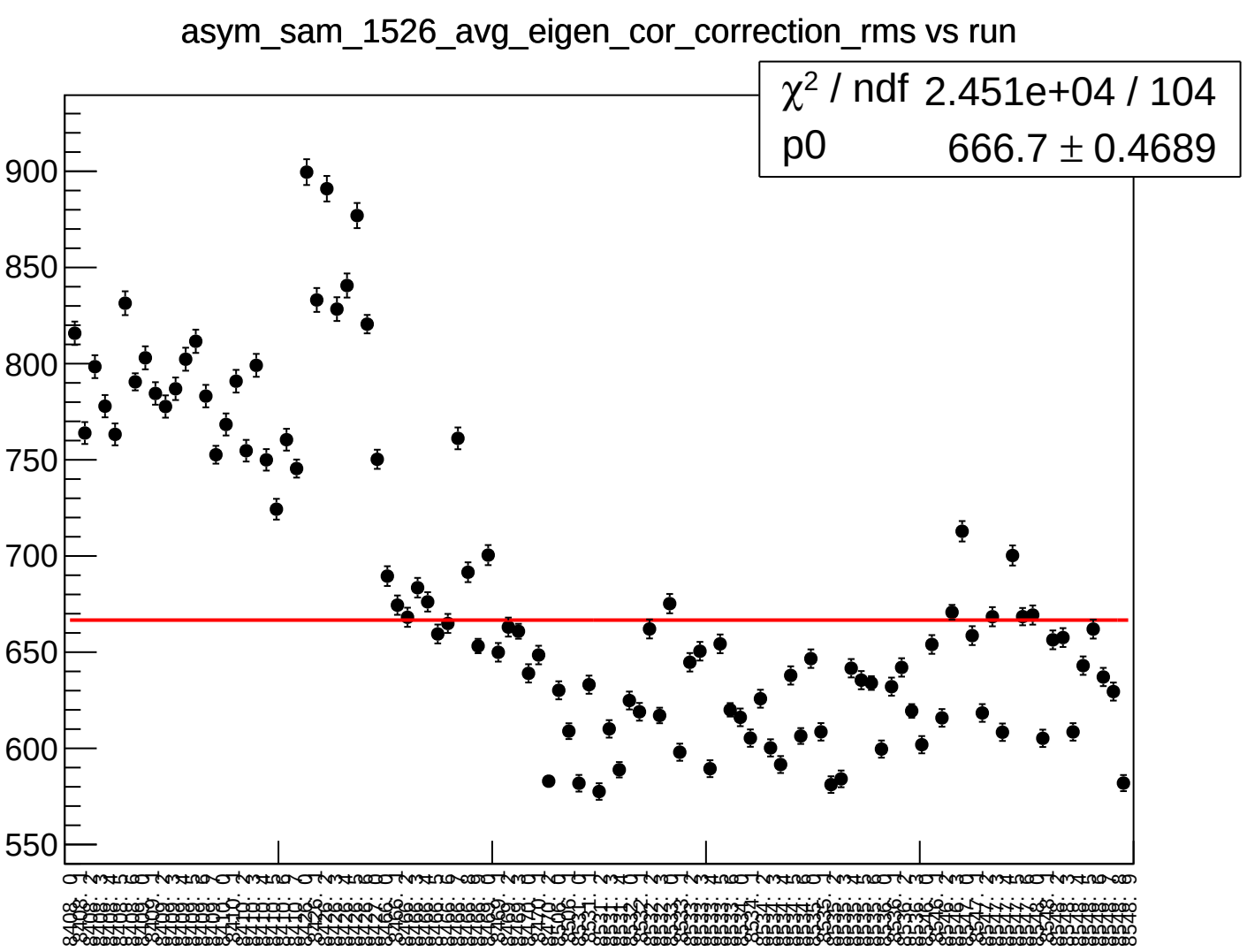

eigen_cor_asym_sam_1526_avg_mean vs run
χ² / ndf 80.74 / 104
p0 −40.78 ± 73.23
pull
Entries 105
Mean −568.6
Std Dev 0

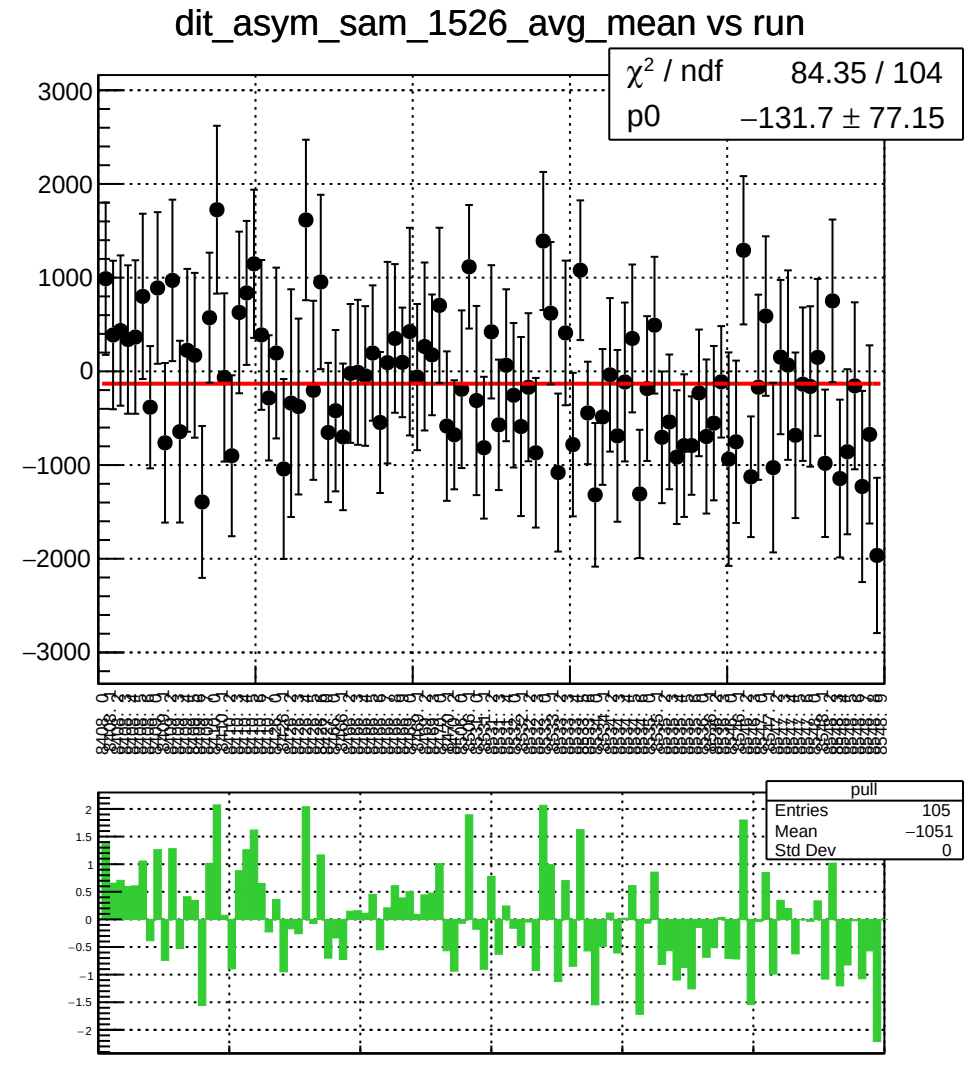

pull1D
Entries 105
Mean 0.01403
Std Dev 0.8768

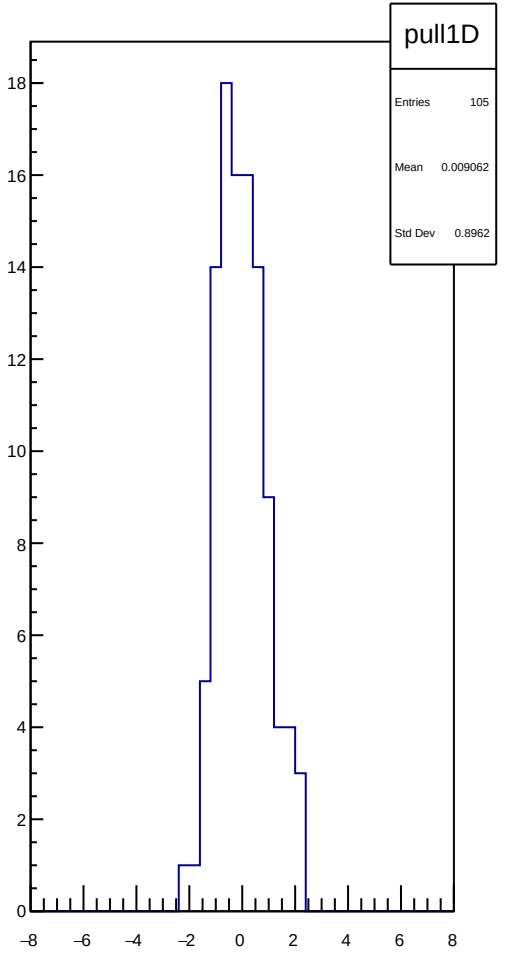

eigen_cor_asym_sam_1526_avg_rms vs run
χ^2 / ndf 2.773e+04 / 104
p0 73.57 ± 0.05178
110
100
90
80
70
60

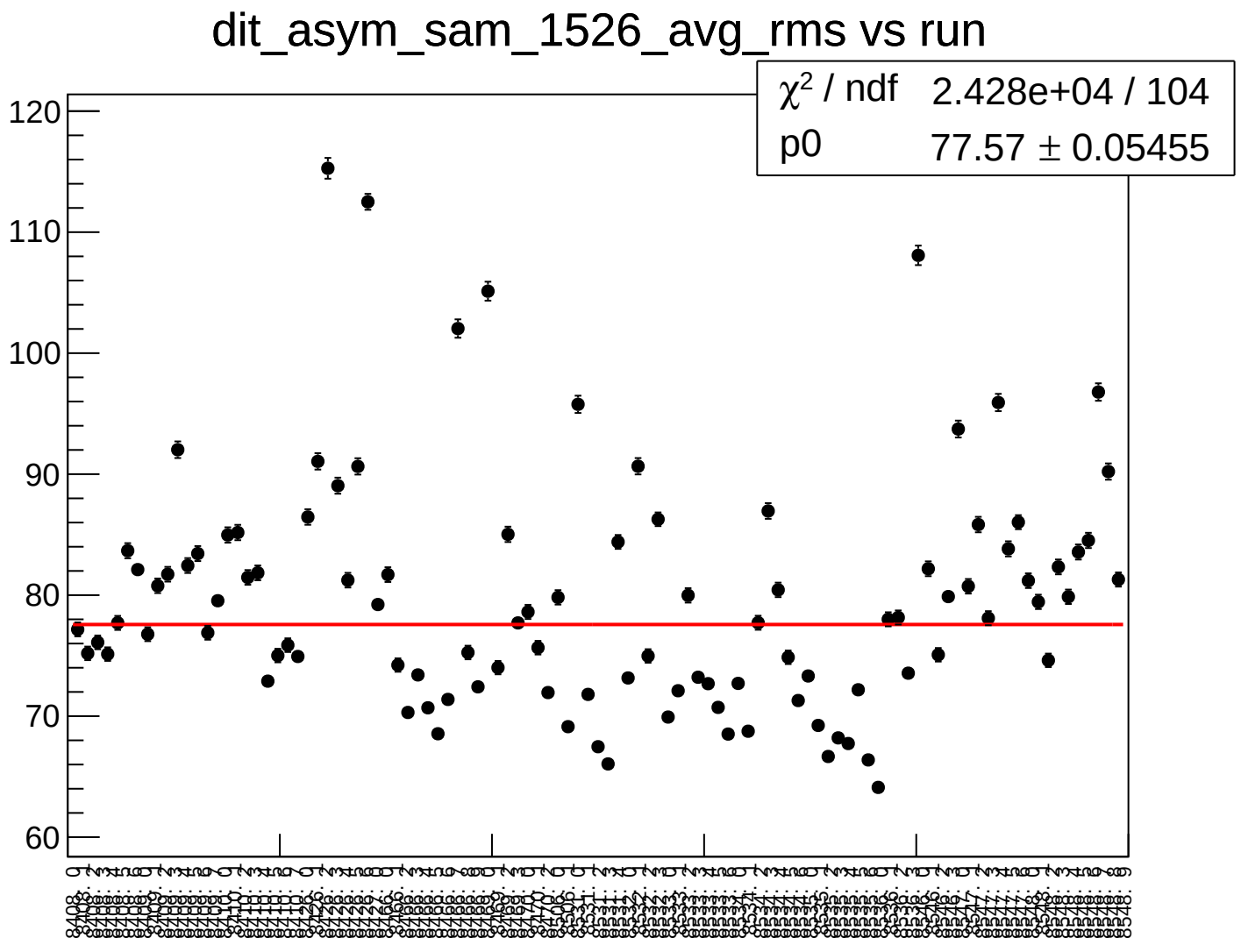

asym_sam_1526_avg_eigen_cor_correction_mean vs run
χ² / ndf 111.3 / 104
p0 −2233 ± 663.1
30000
20000
10000
0
−10000
−20000
pull
Entries 105
Mean 1169
Std Dev 0
2
1
0
−1
−2

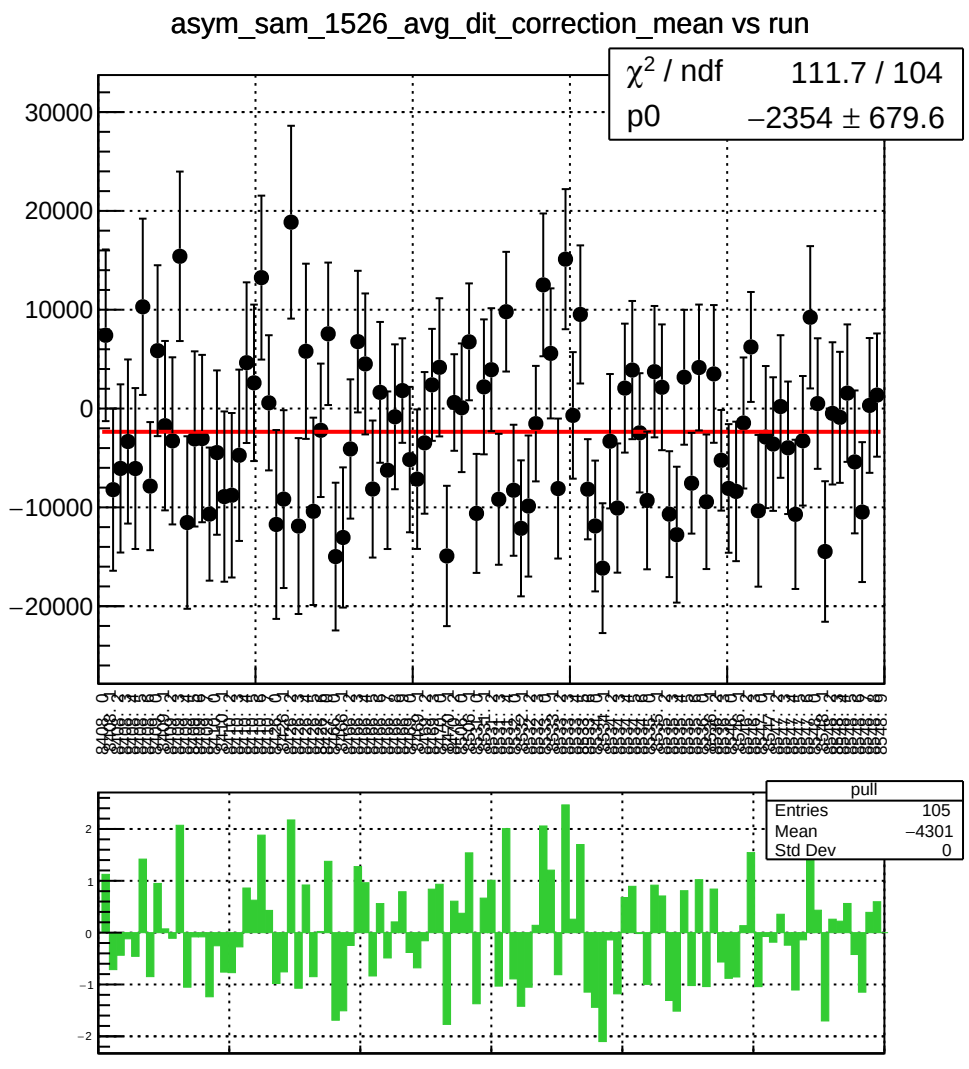

pull1D
Entries 105
Mean −0.001389
Std Dev 1.03
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

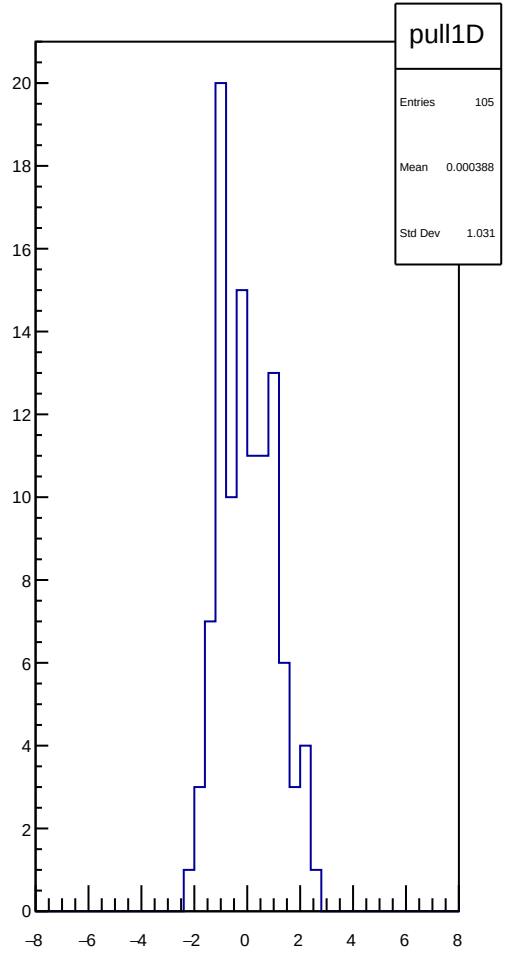

asym_sam_1526_avg_eigen_cor_correction_rms vs run
χ^2 / ndf 2.451e+04 / 104
p0 666.7 ± 0.4689
900
850
800
750
700
650
600
550

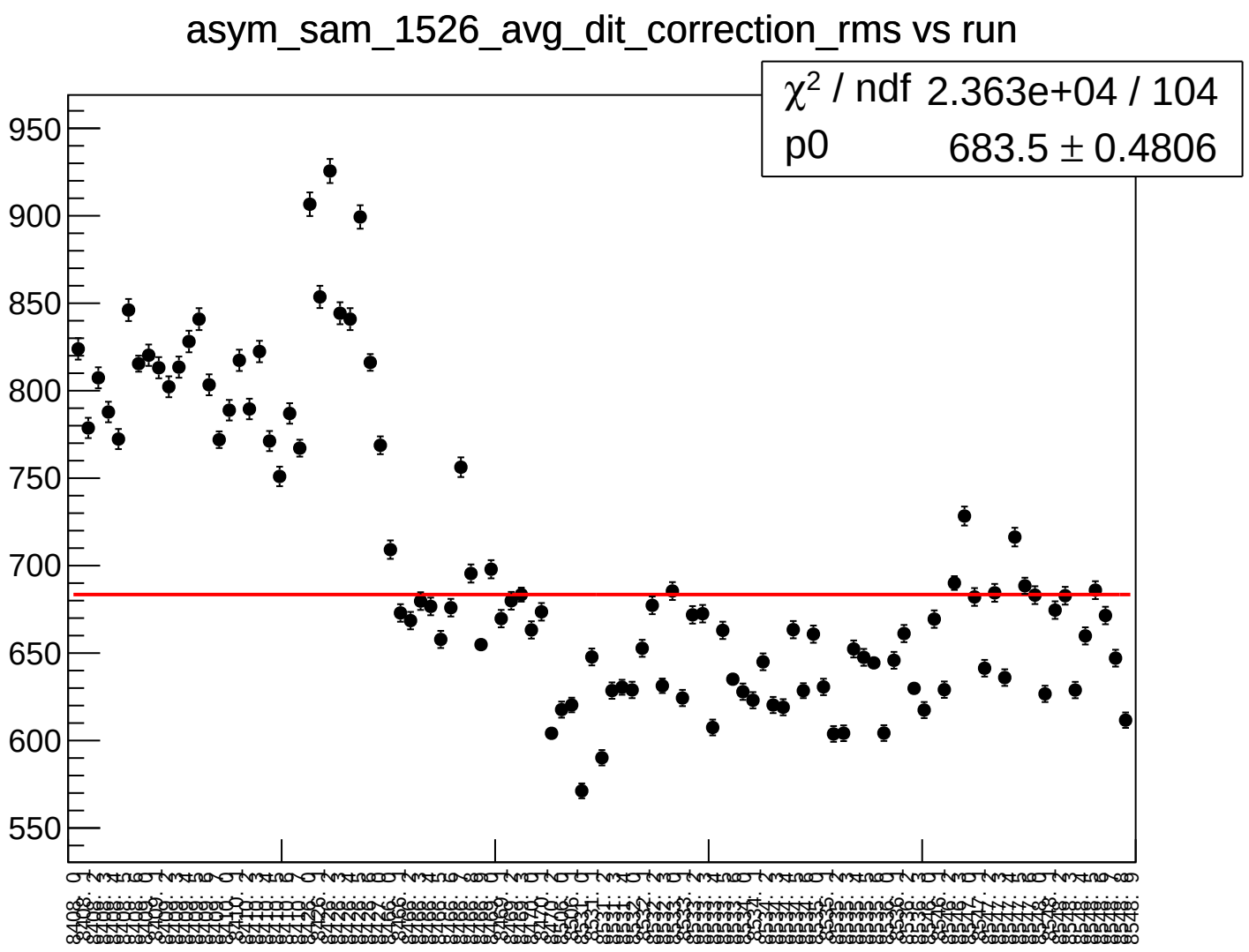

dit_asym_sam_1526_avg_mean vs run
χ² / ndf 84.35 / 104
p0 −131.7 ± 77.15
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 105
Mean −1051
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

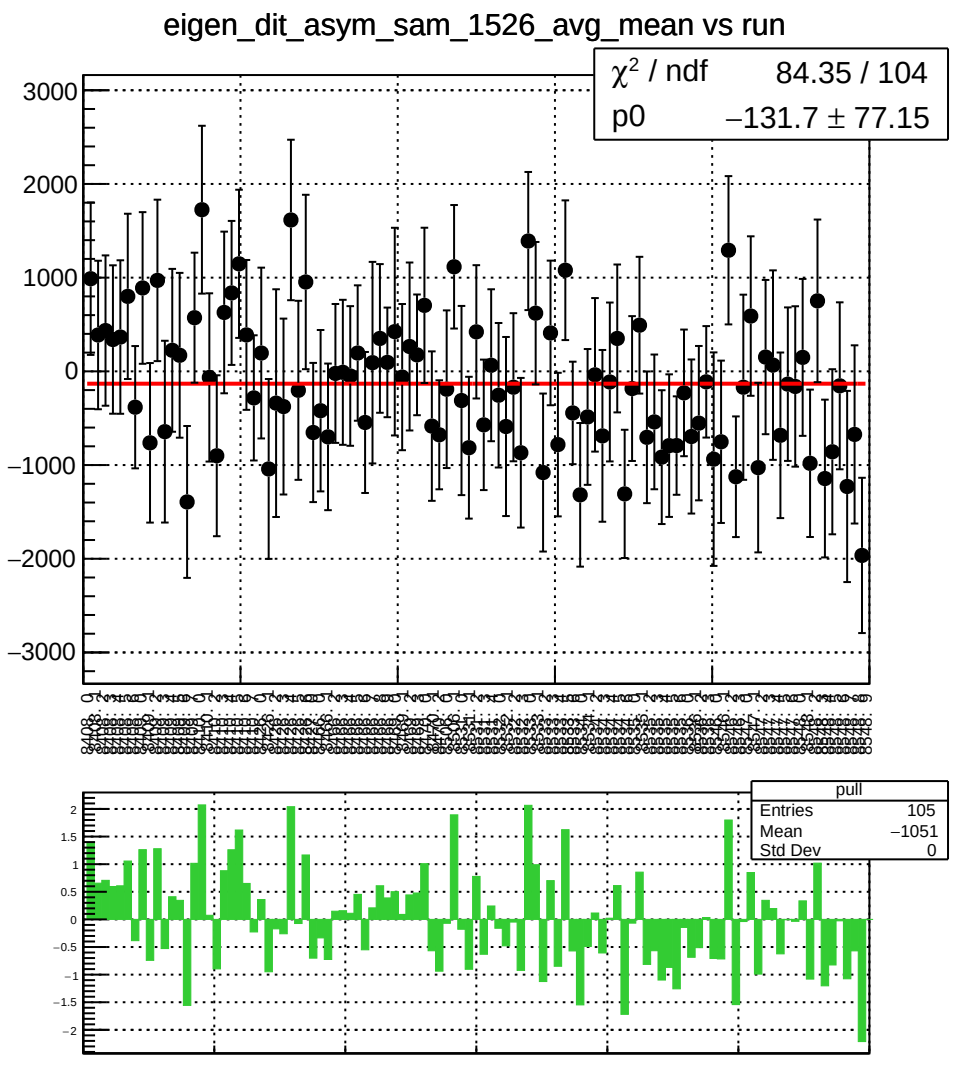

pull1D
Entries 105
Mean 0.009062
Std Dev 0.8962
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

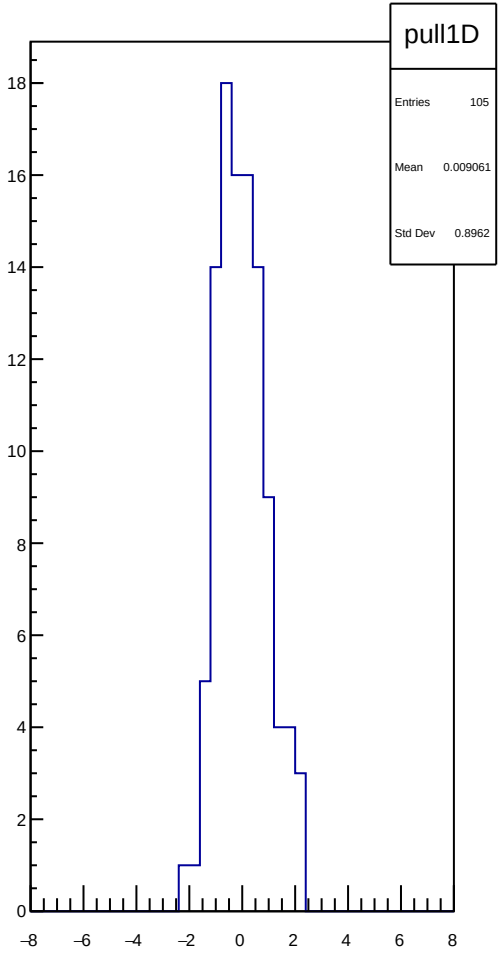

dit_asym_sam_1526_avg_rms vs run
χ^2 / ndf 2.428e+04 / 104
p0 77.57 ± 0.05455
120
110
100
90
80
70
60

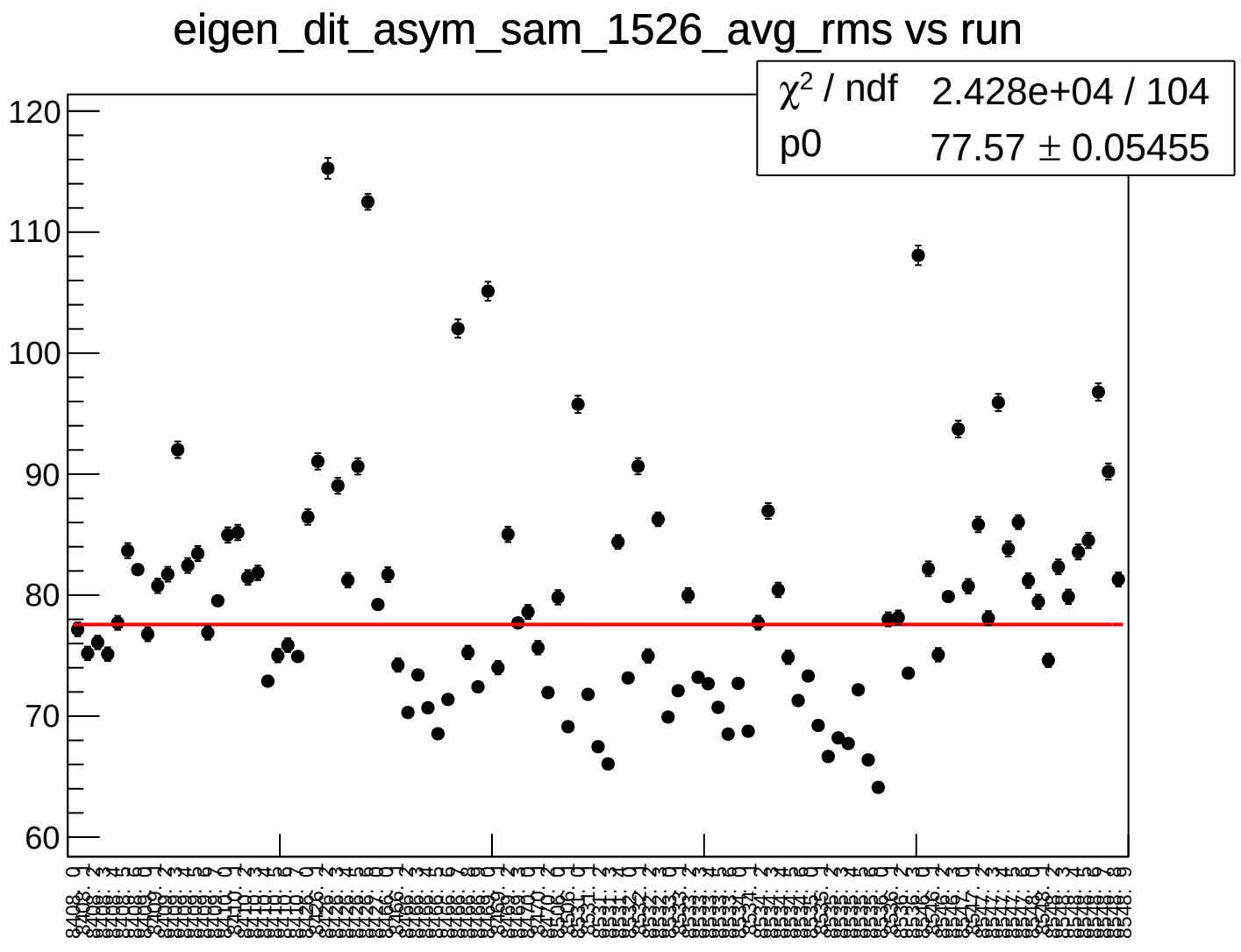

asym_sam_1526_avg_dit_correction_mean vs run
χ² / ndf 111.7 / 104
p0 −2354 ± 679.6
30000
20000
10000
0
−10000
−20000
pull
Entries 105
Mean −4301
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 105
Mean 0.000388
Std Dev 1.031
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

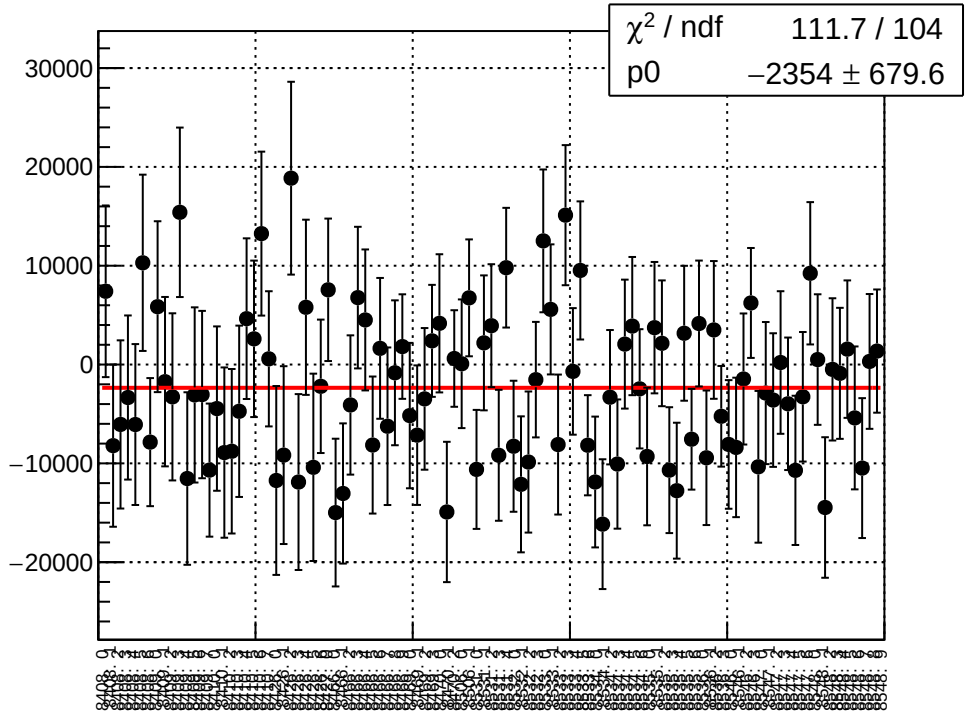

asym_sam_1526_avg_dit_correction_rms vs run
χ² / ndf 2.363e+04 / 104
p0 683.5 ± 0.4806
950
900
850
800
750
700
650
600
550

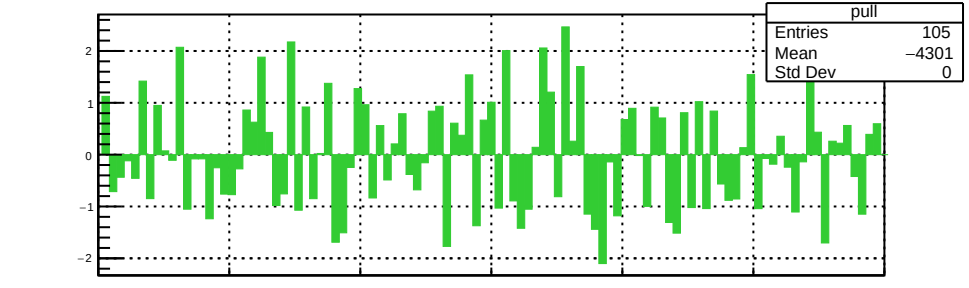

eigen_dit_asym_sam_1526_avg_mean vs run
χ² / ndf 84.35 / 104
p0 −131.7 ± 77.15
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 105
Mean −1051
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

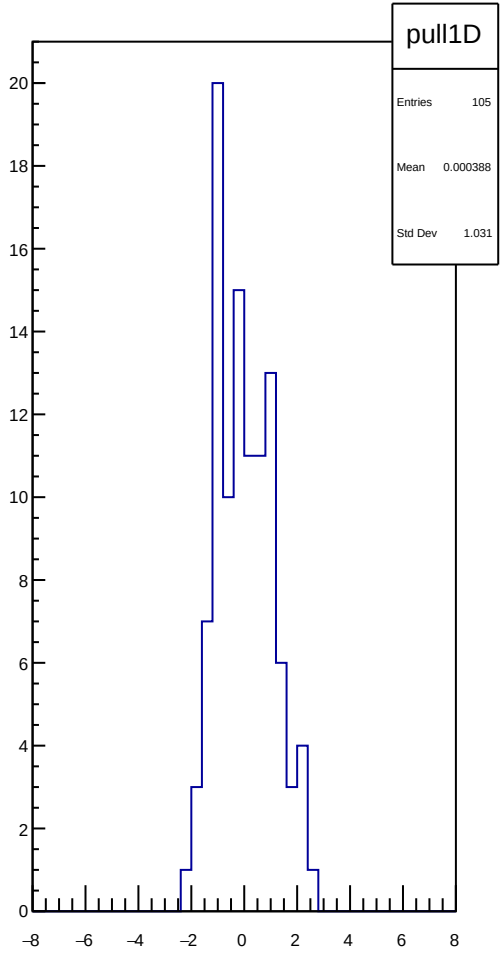

pull1D
Entries 105
Mean 0.009061
Std Dev 0.8962
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

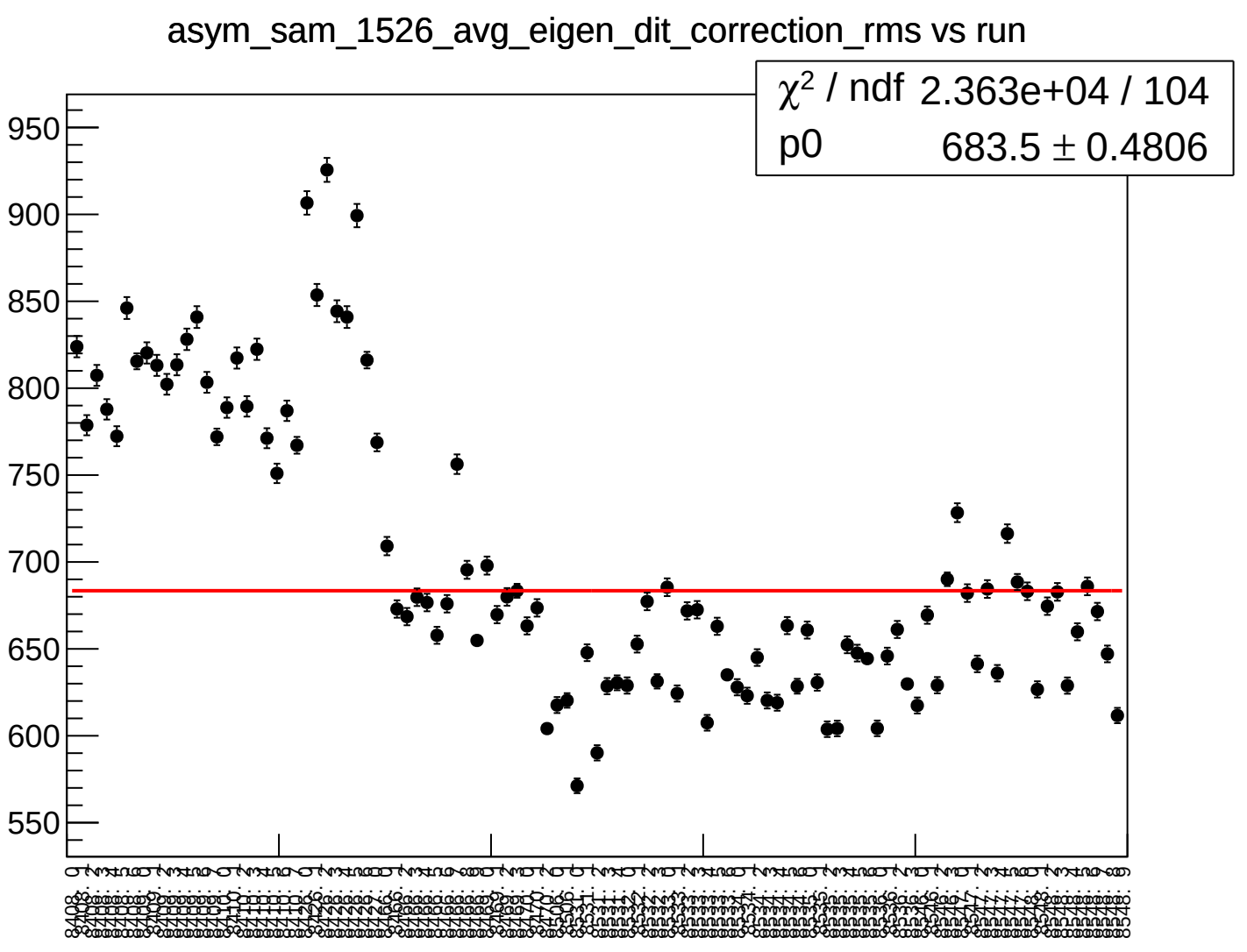

eigen_dit_asym_sam_1526_avg_rms vs run
χ² / ndf 2.428e+04 / 104
p0 77.57 ± 0.05455
120
110
100
90
80
70
60

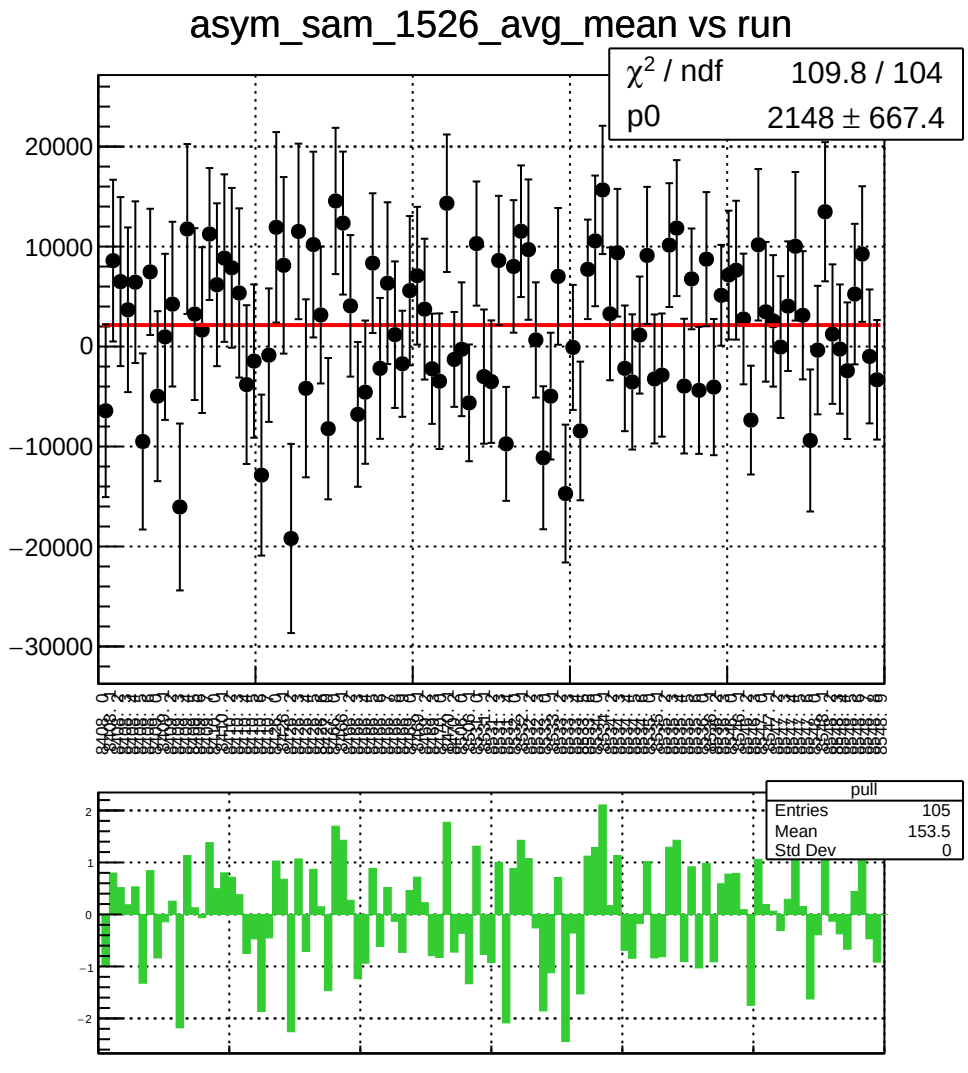
asym_sam_1526_avg_eigen_dit_correction_mean vs run

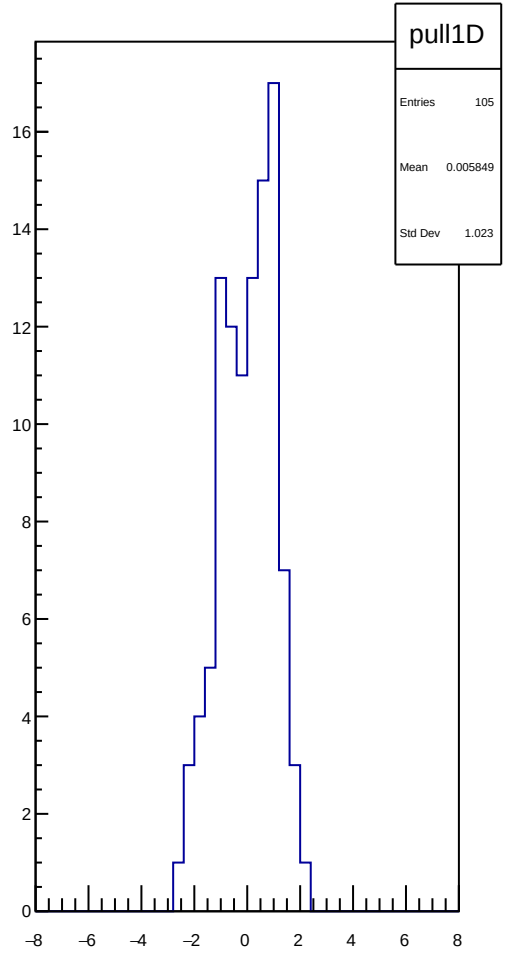


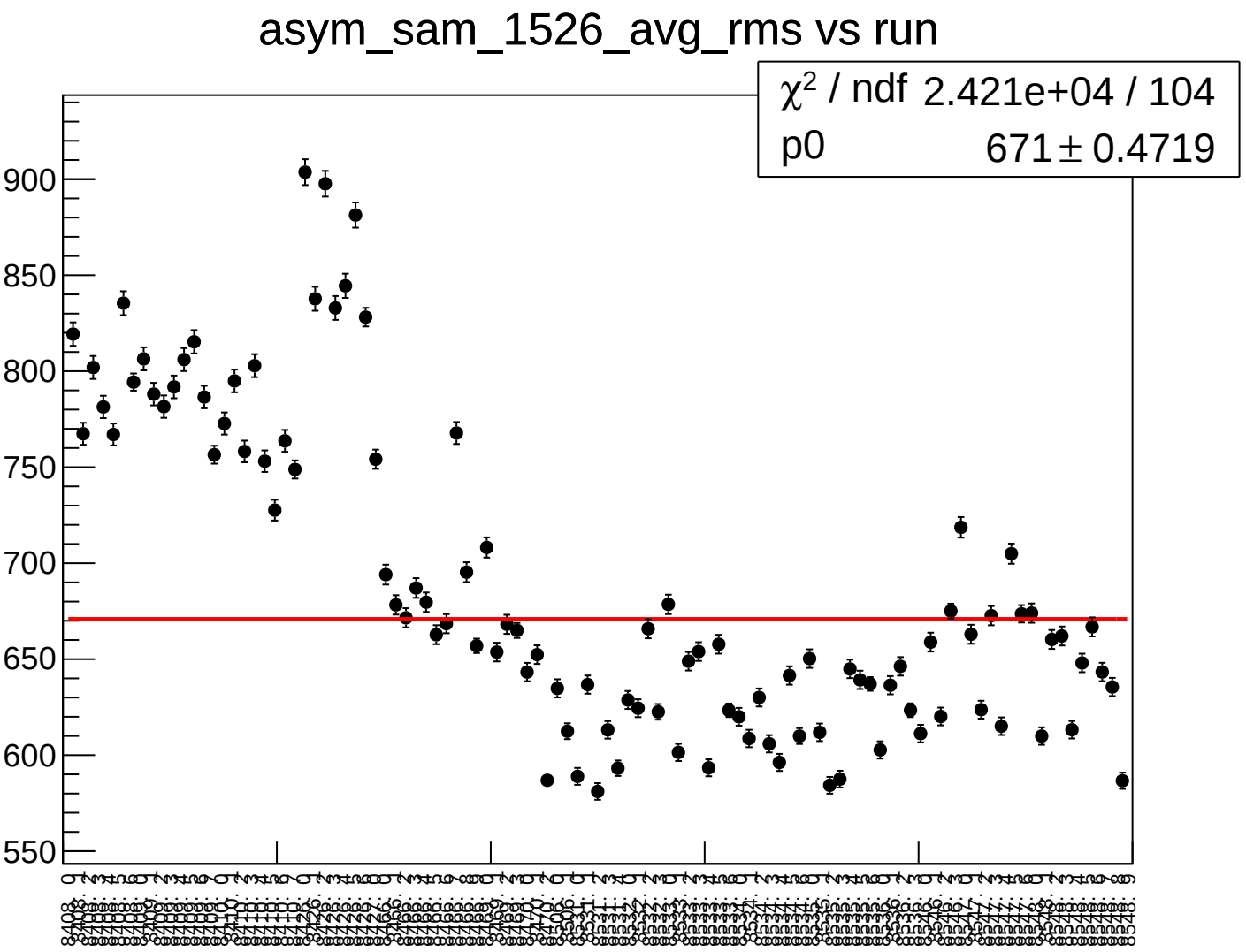


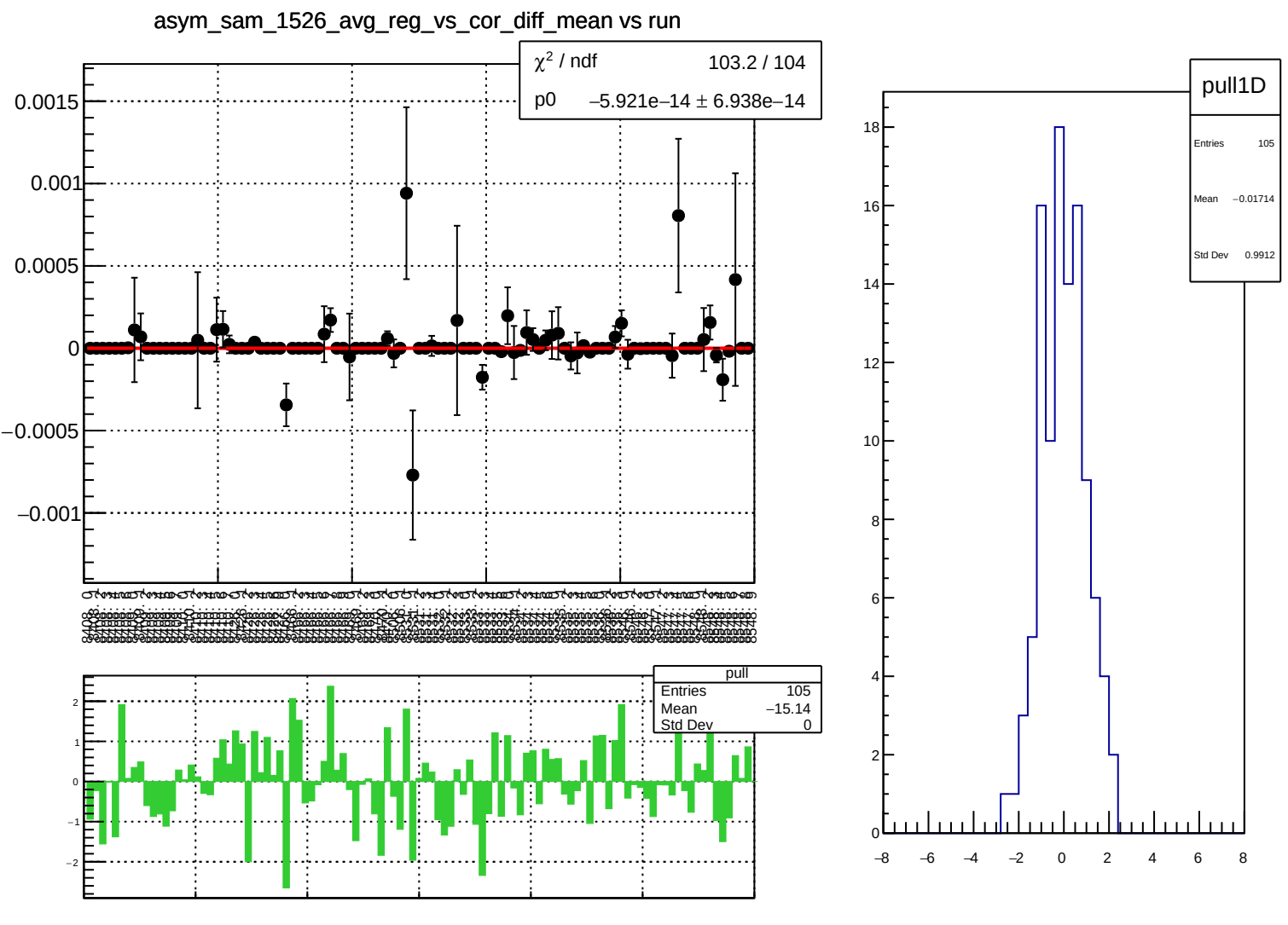


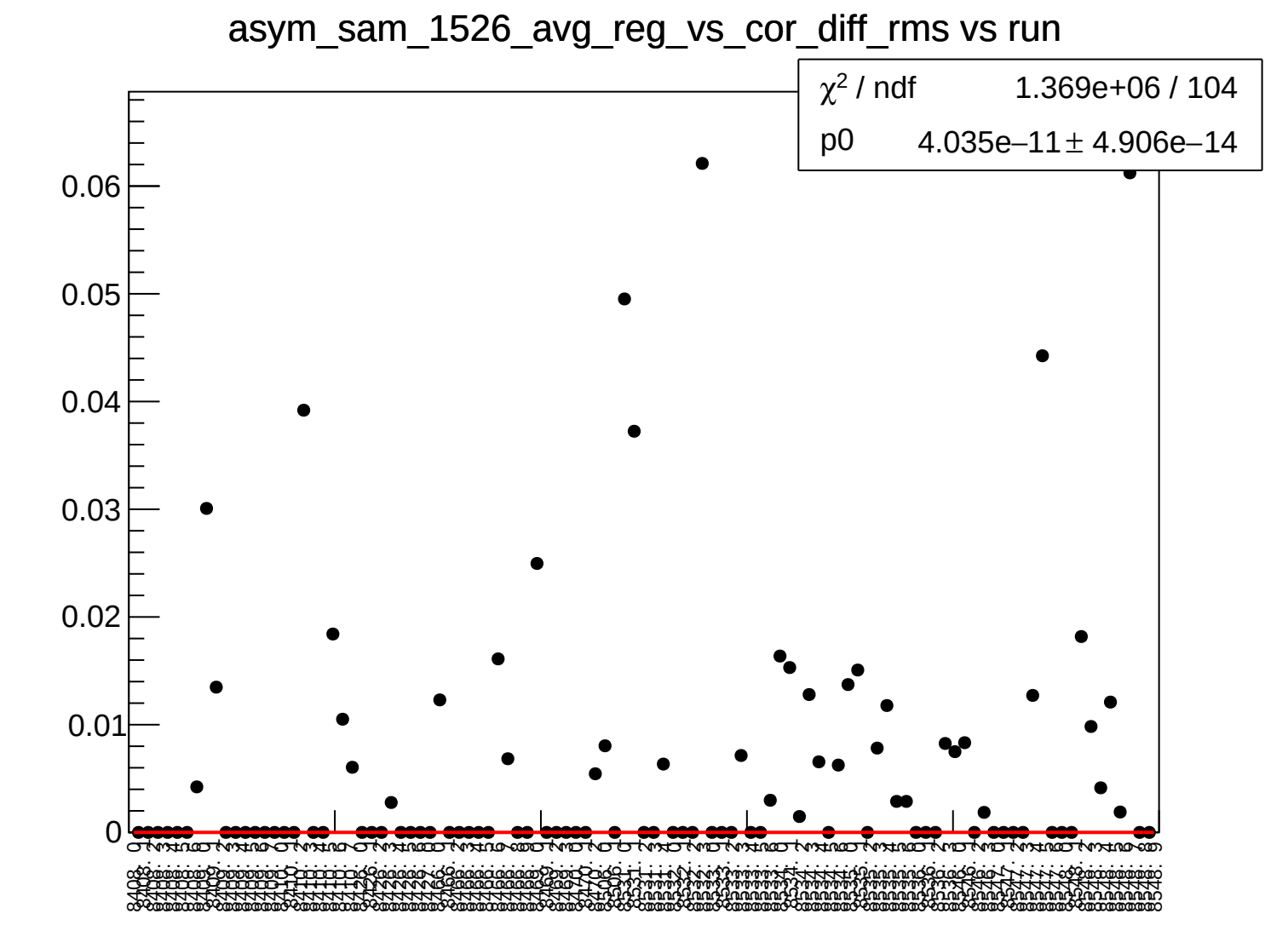

asym_sam_1526_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.363e+04 / 104
p0 683.5 ± 0.4806
950
900
850
800
750
700
650
600
550

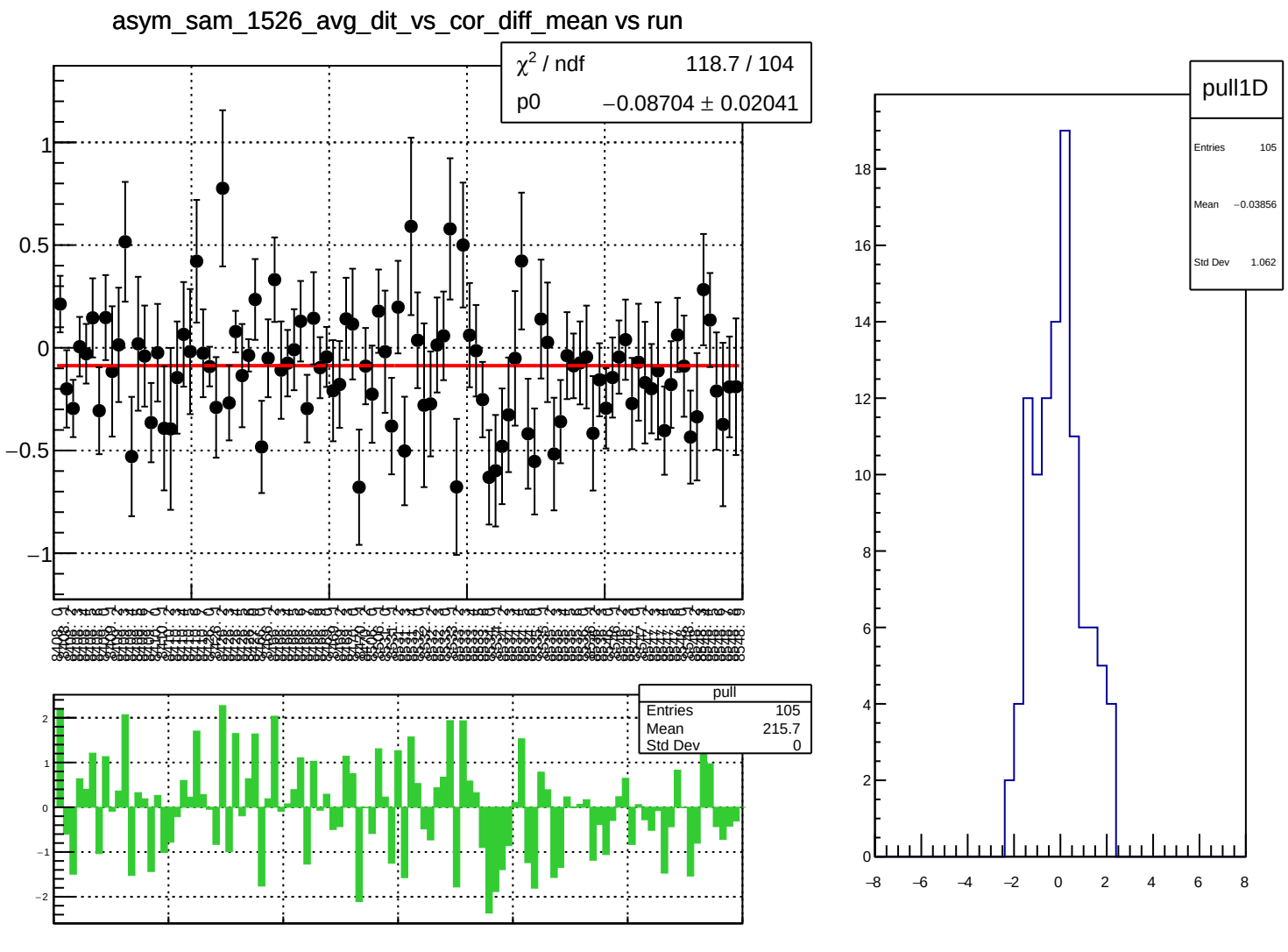

asym_sam_1526_avg_mean vs run
χ² / ndf 109.8 / 104
p0 2148 ± 667.4
20000
10000
0
−10000
−20000
−30000
pull
Entries 105
Mean 153.5
Std Dev 0
2
1
0
−1
−2

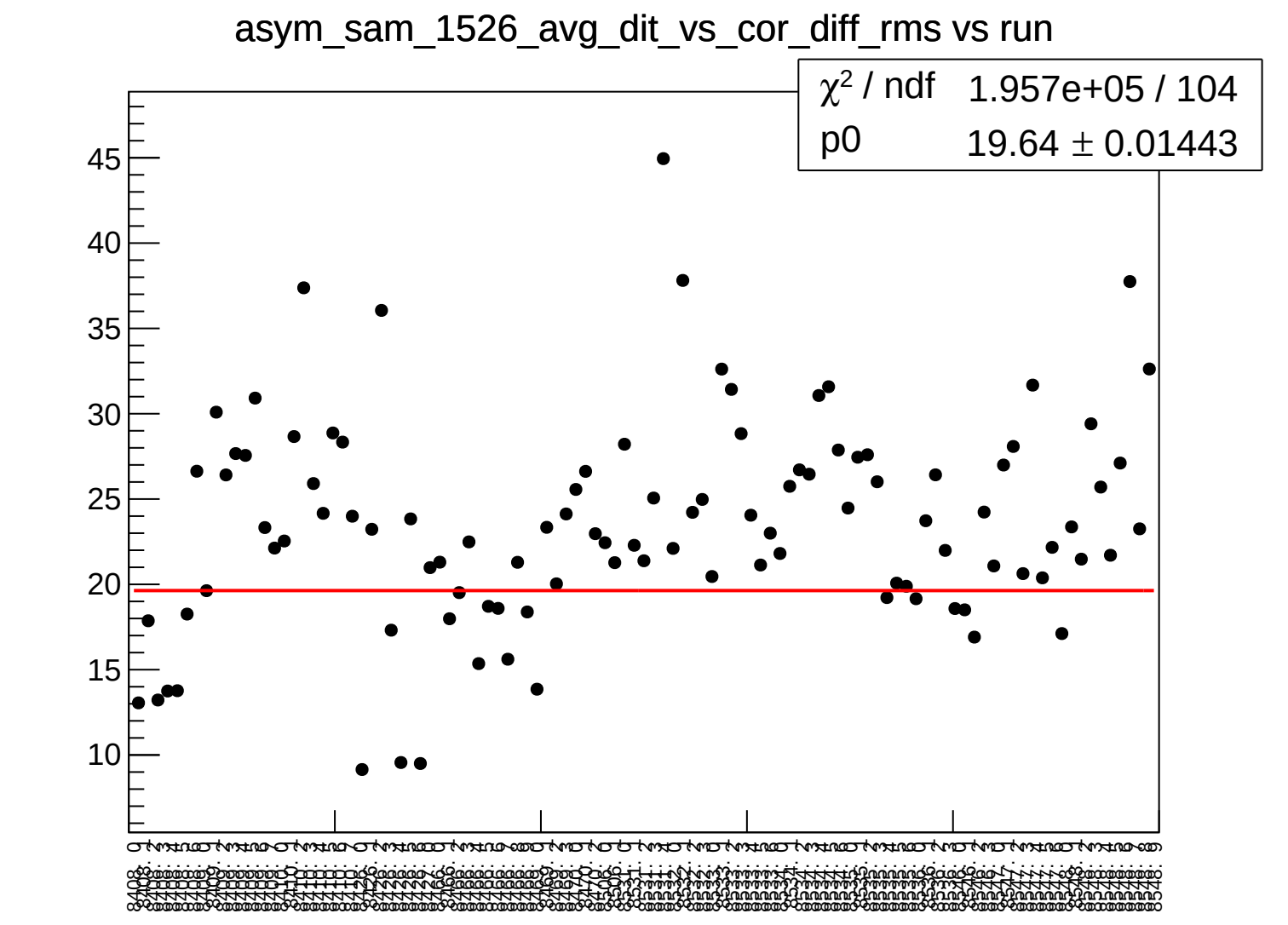

pull1D
Entries 105
Mean 0.005849
Std Dev 1.023
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

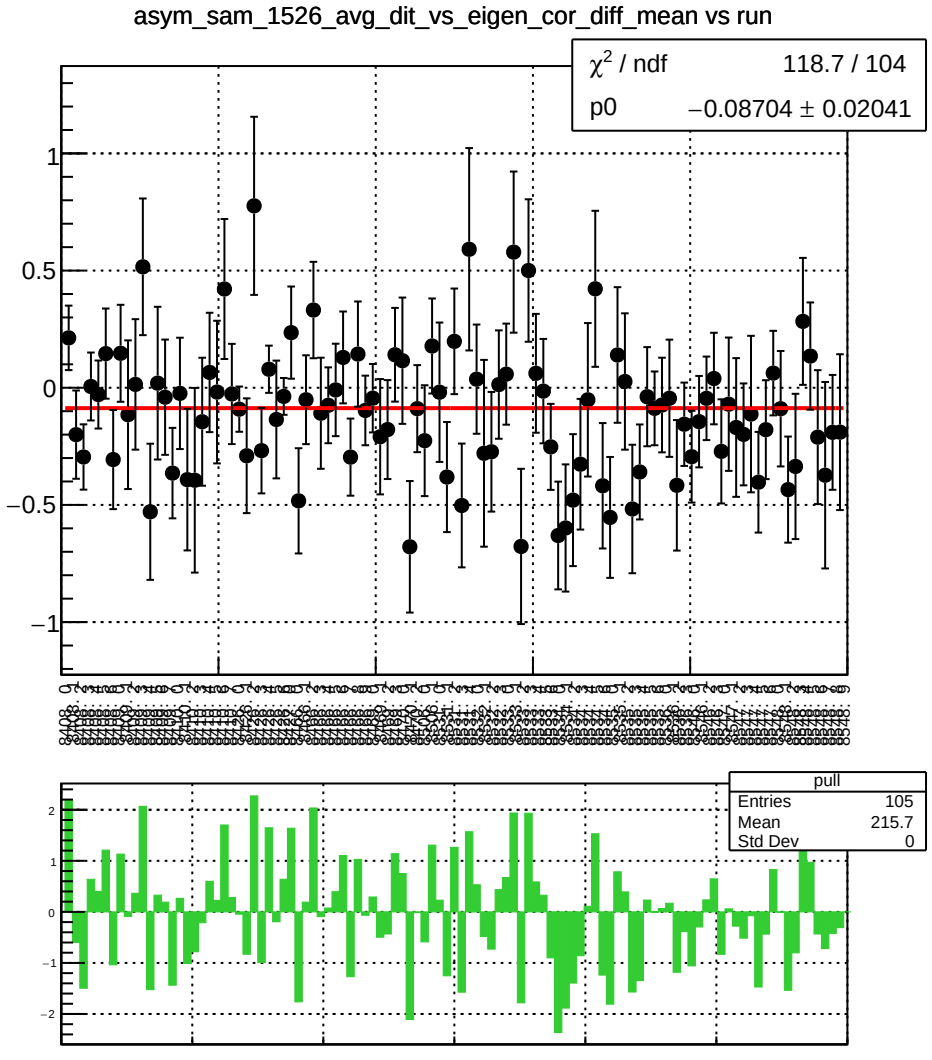

asym_sam_1526_avg_rms vs run
χ^2 / ndf 2.421e+04 / 104
p0 671 ± 0.4719
900
850
800
750
700
650
600
550

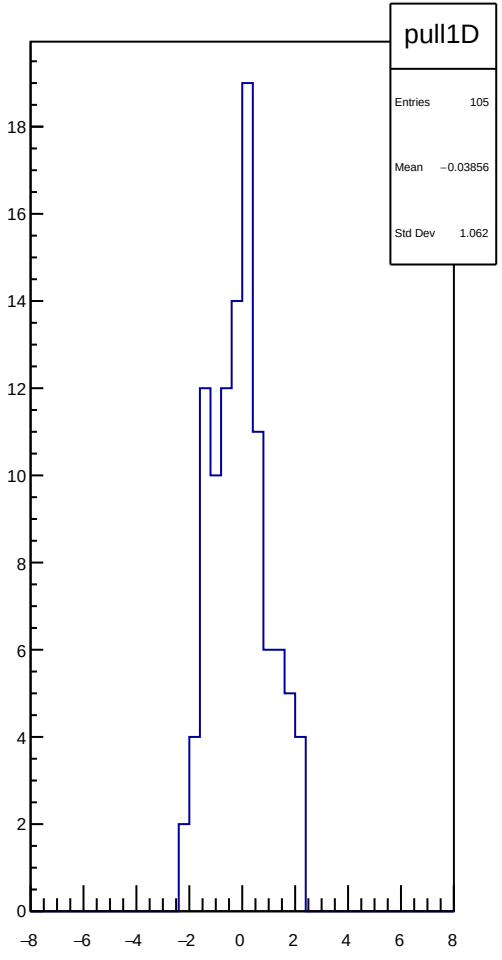

asym_sam_1526_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 103.2 / 104
p0 −5.921e−14 ± 6.938e−14
0.0015
0.001
0.0005
0
−0.0005
−0.001
pull
Entries 105
Mean −15.14
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.01714
Std Dev 0.9912
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

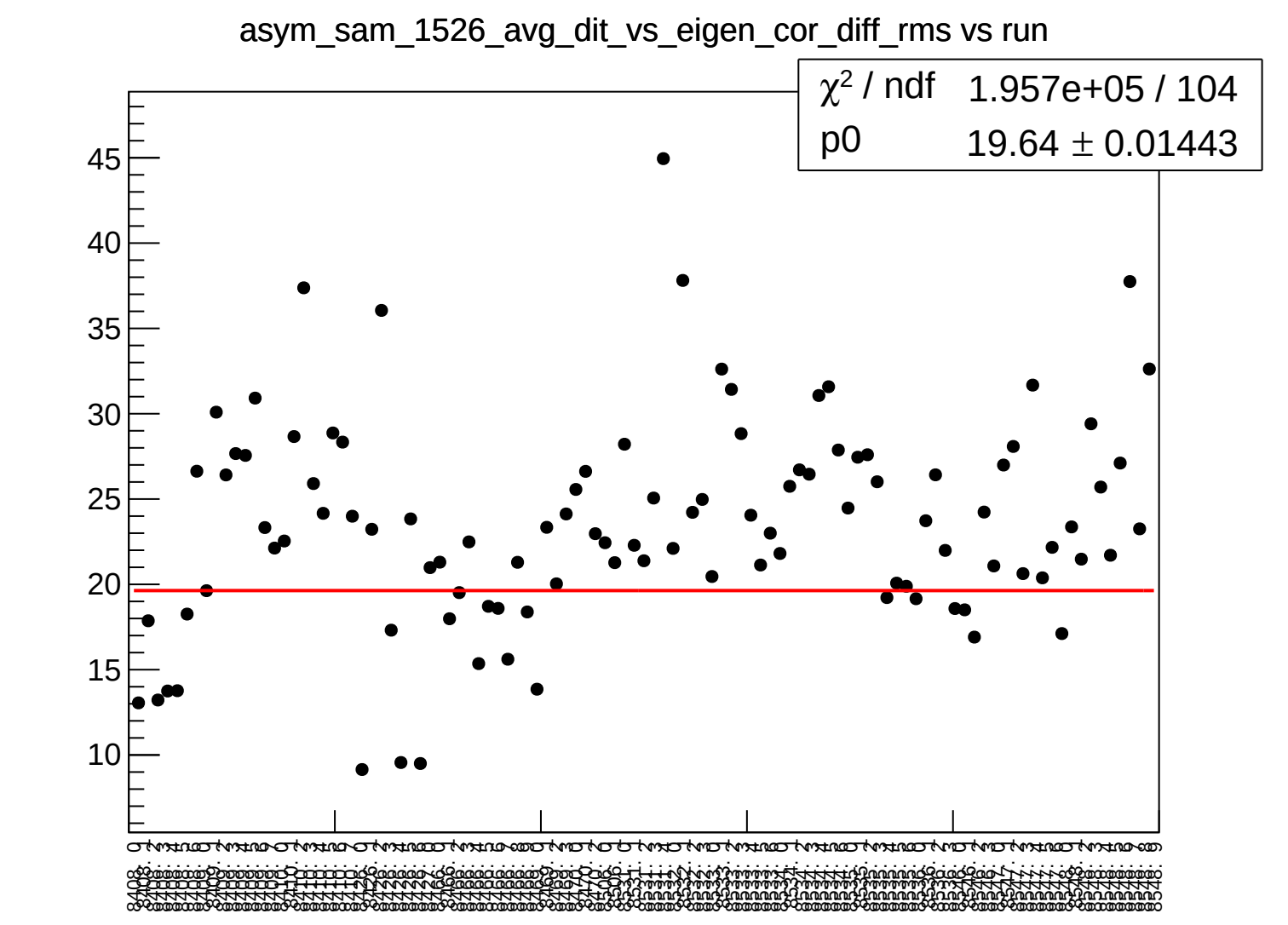

asym_sam_1526_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.369e+06 / 104
p0 4.035e−11 ± 4.906e−14
0.06
0.05
0.04
0.03
0.02
0.01
0

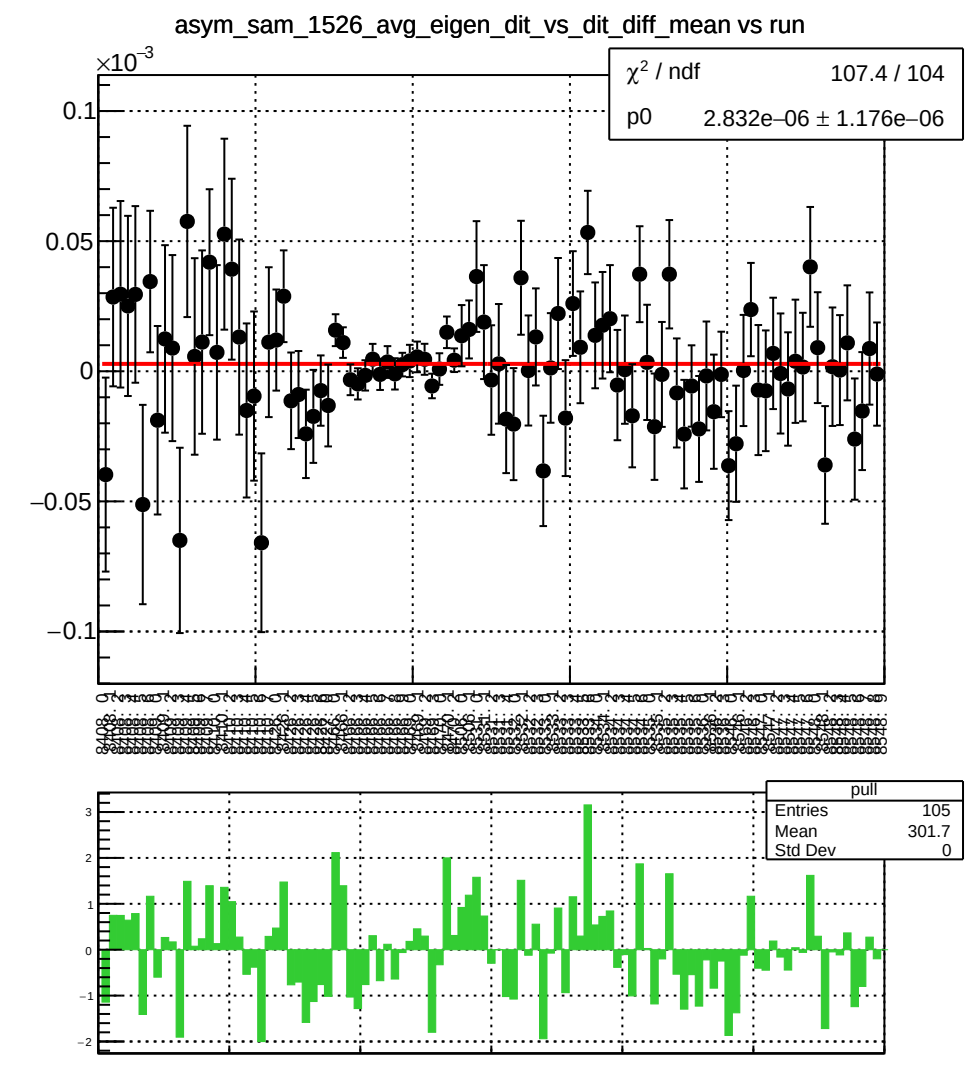

asym_sam_1526_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 118.7 / 104
p0 −0.08704 ± 0.02041
pull
Entries 105
Mean 215.7
Std Dev 0
pull1D
Entries 105
Mean −0.03856
Std Dev 1.062

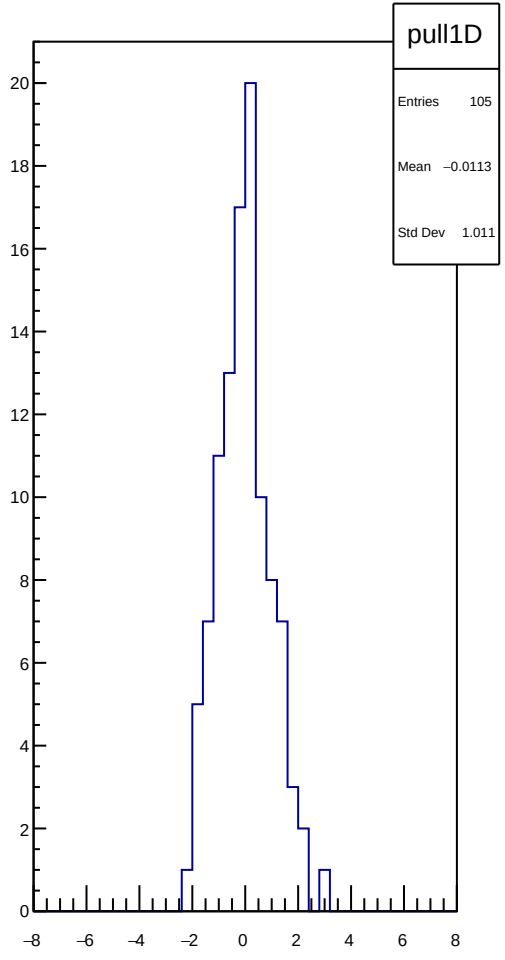

asym_sam_1526_avg_dit_vs_cor_diff_rms vs run
χ^2 / ndf 1.957e+05 / 104
p0 19.64 ± 0.01443
45
40
35
30
25
20
15
10

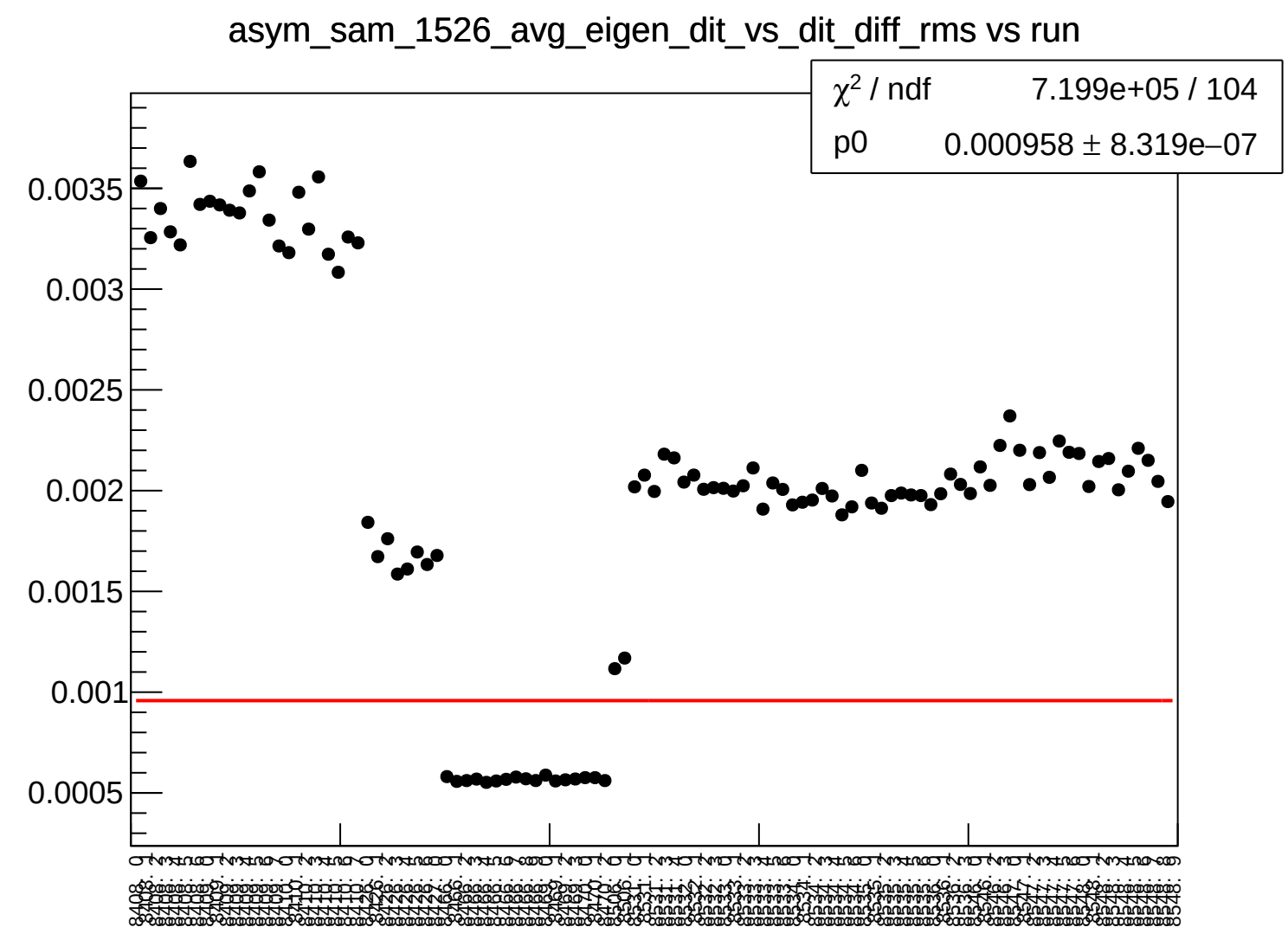

asym_sam_1526_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 118.7 / 104
p0 −0.08704 ± 0.02041
pull
Entries 105
Mean 215.7
Std Dev 0

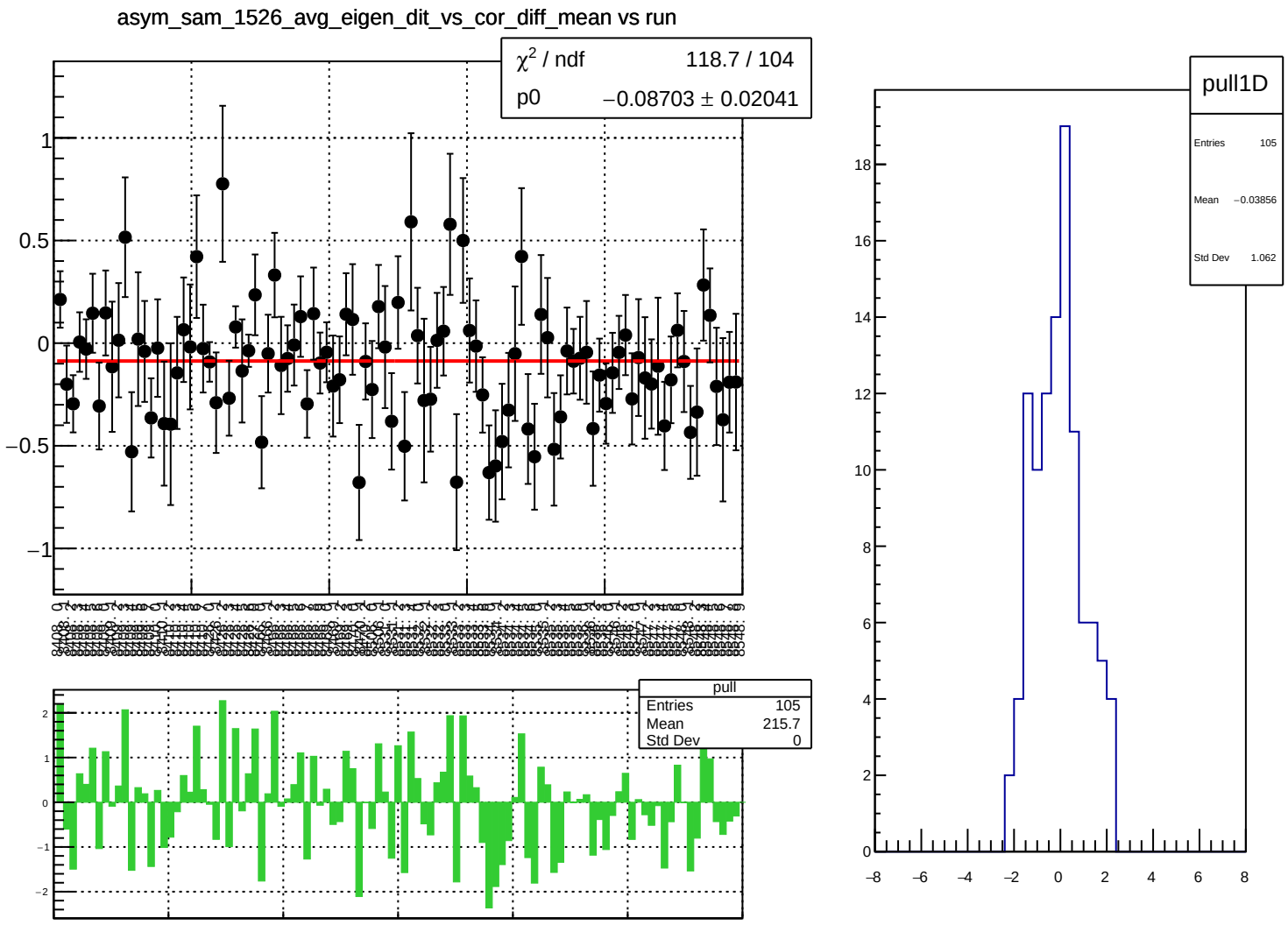

pull1D
Entries 105
Mean −0.03856
Std Dev 1.062

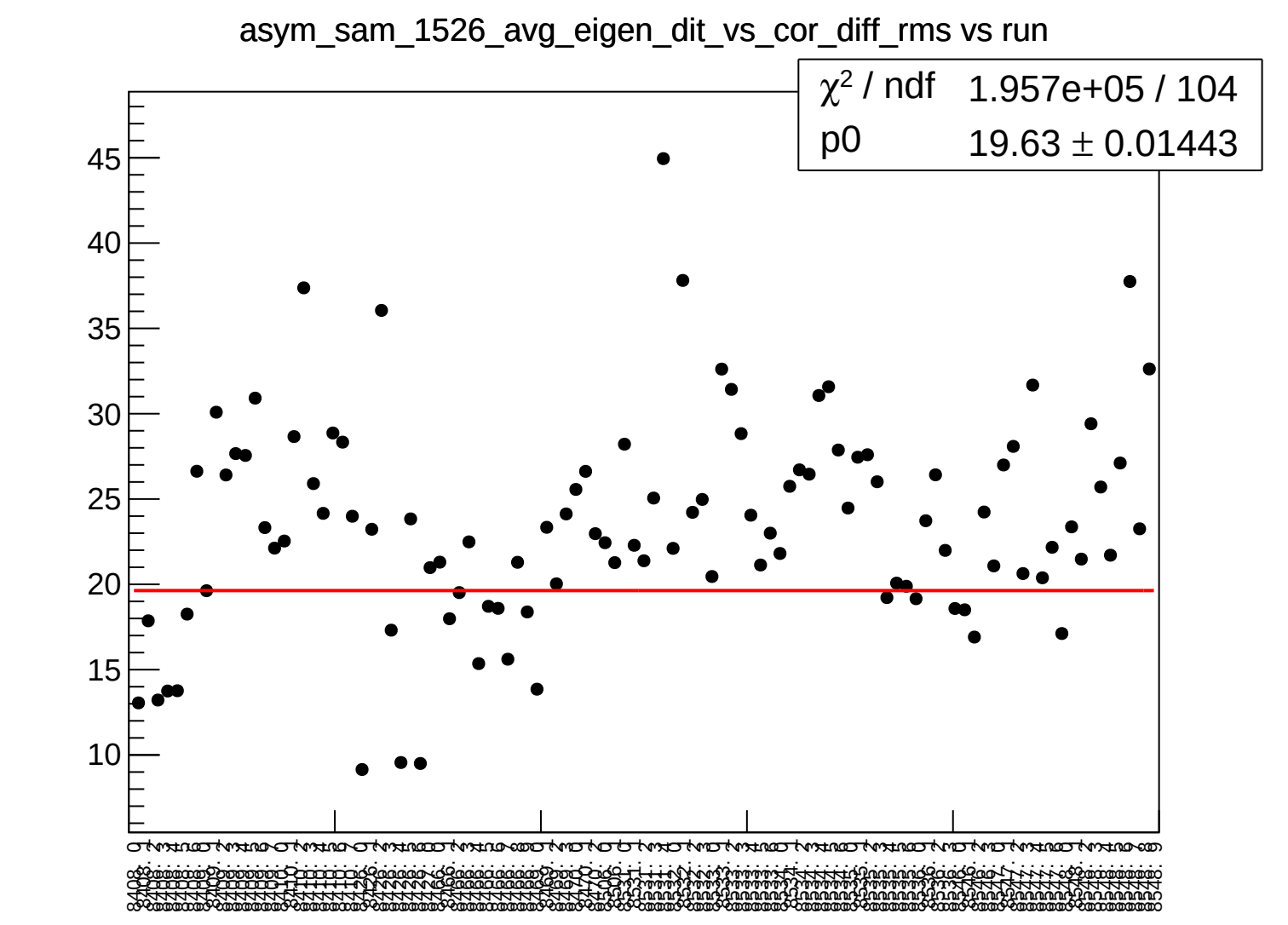

asym_sam_1526_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.957e+05 / 104
p0 19.64 ± 0.01443
45
40
35
30
25
20
15
10

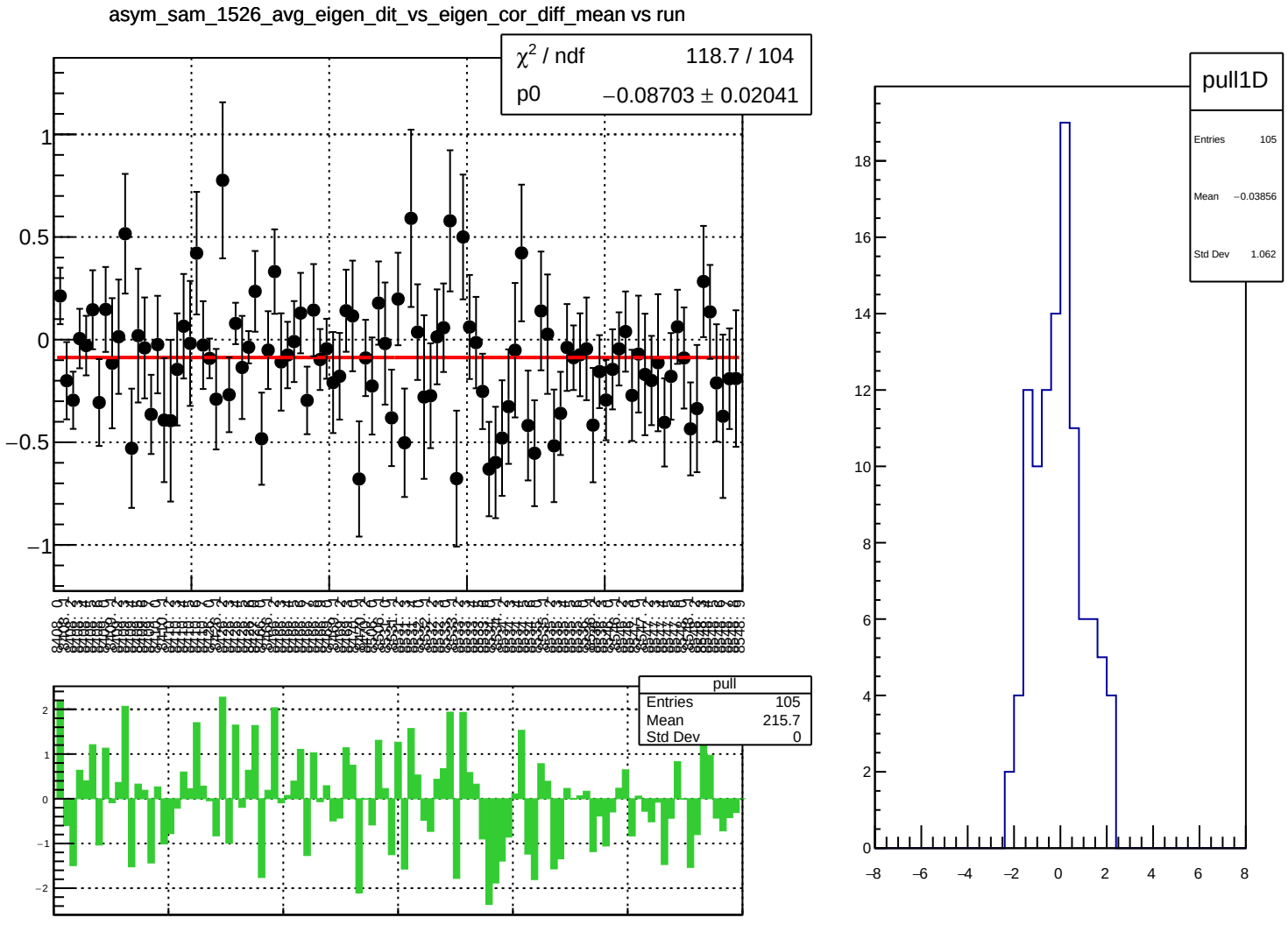

asym_sam_1526_avg_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 107.4 / 104
p0 2.832e−06 ± 1.176e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 105
Mean 301.7
Std Dev 0
3
2
1
0
−1
−2

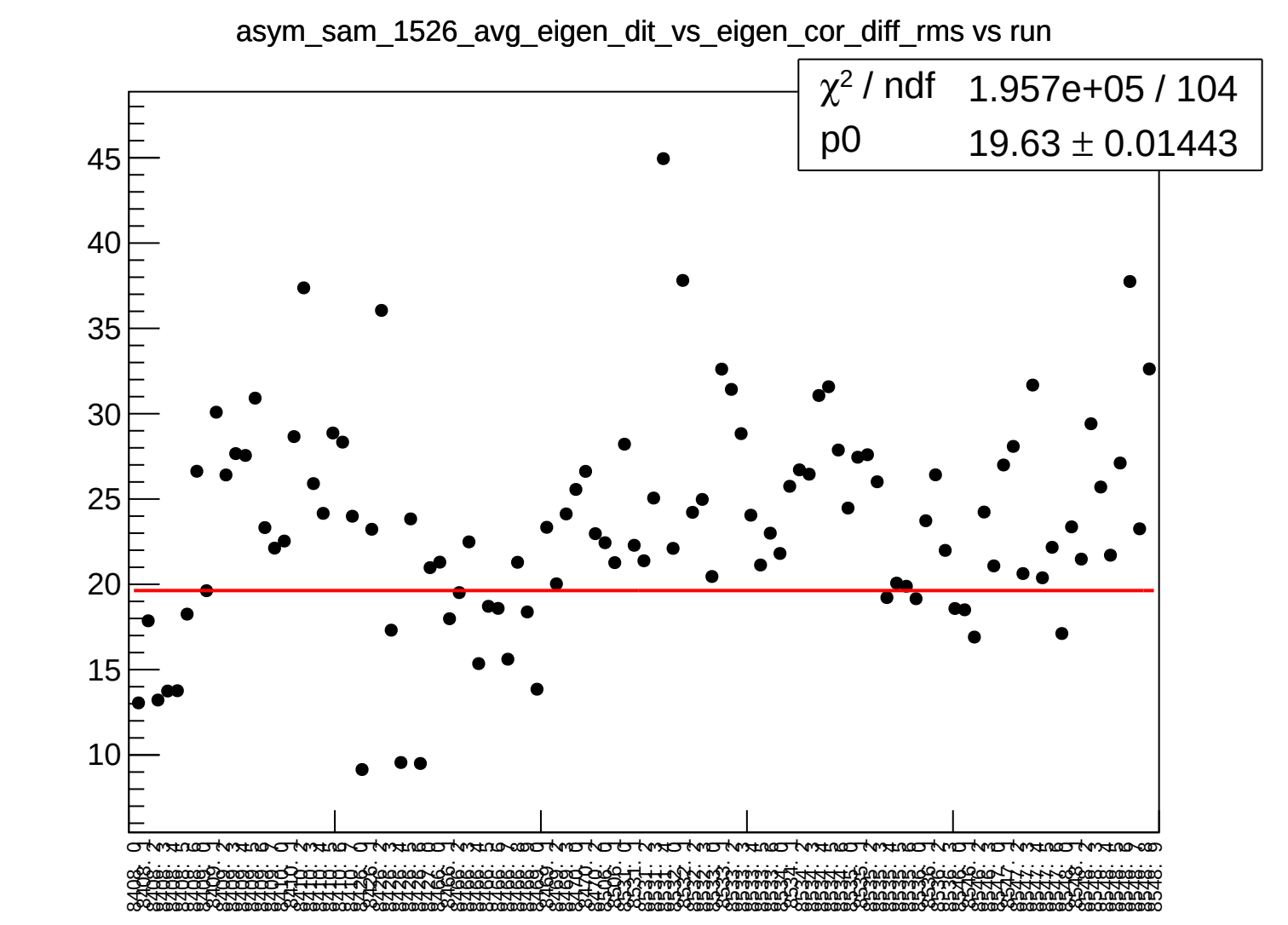

pull1D
Entries 105
Mean −0.0113
Std Dev 1.011
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

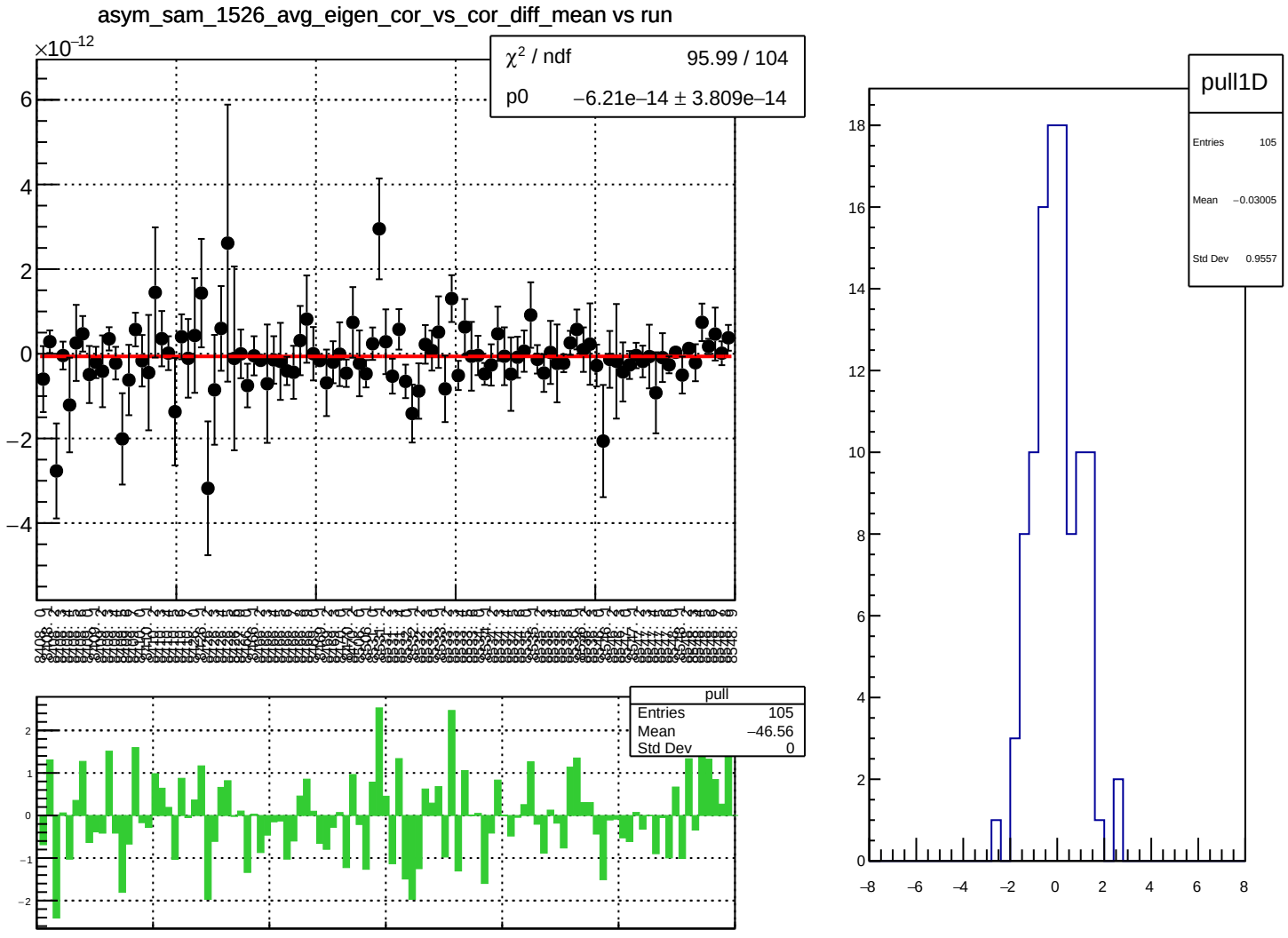

asym_sam_1526_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 7.199e+05 / 104
p0 0.000958 ± 8.319e−07
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005

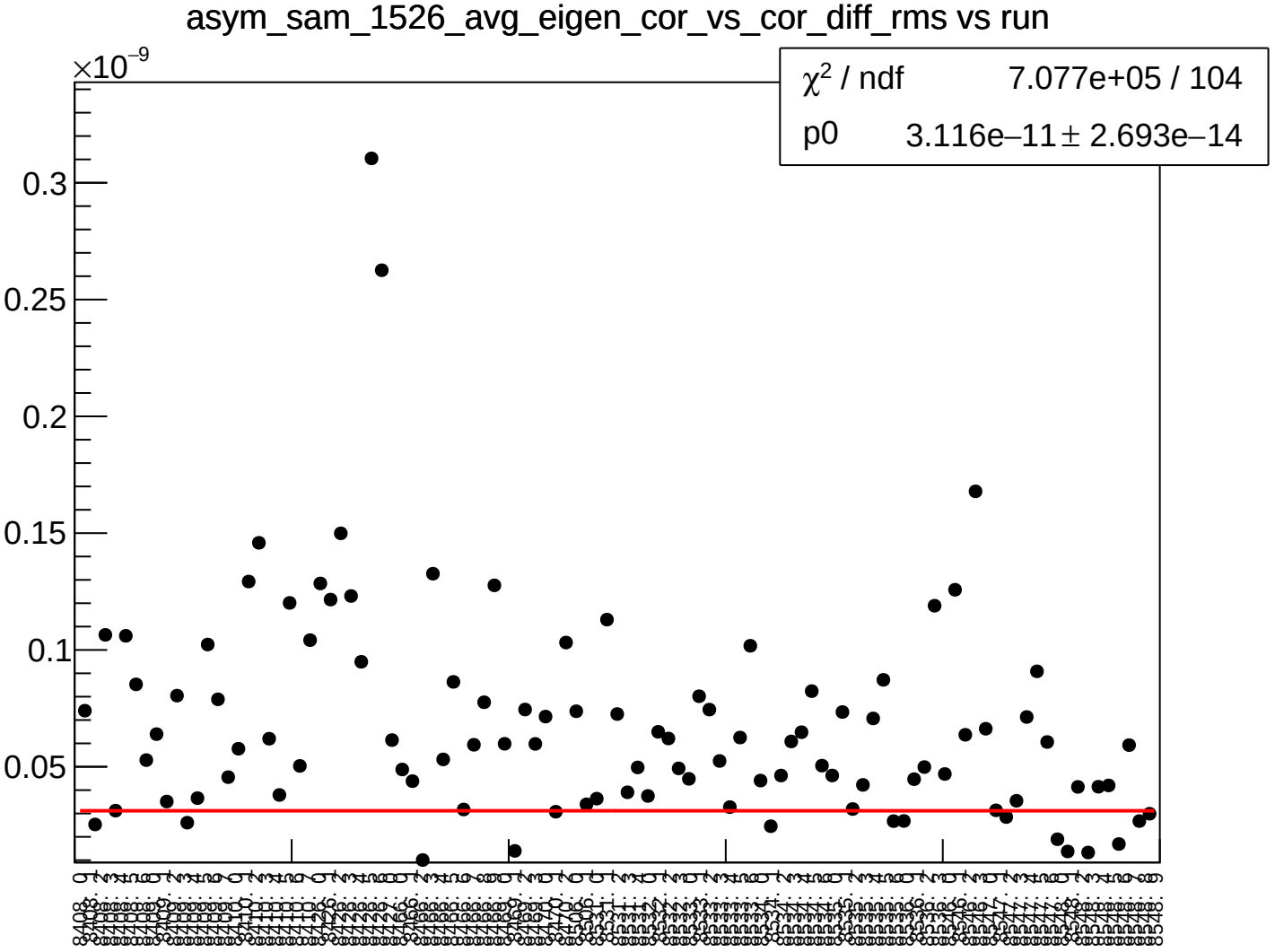

asym_sam_1526_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 118.7 / 104
p0 −0.08703 ± 0.02041
pull
Entries 105
Mean 215.7
Std Dev 0
pull1D
Entries 105
Mean −0.03856
Std Dev 1.062

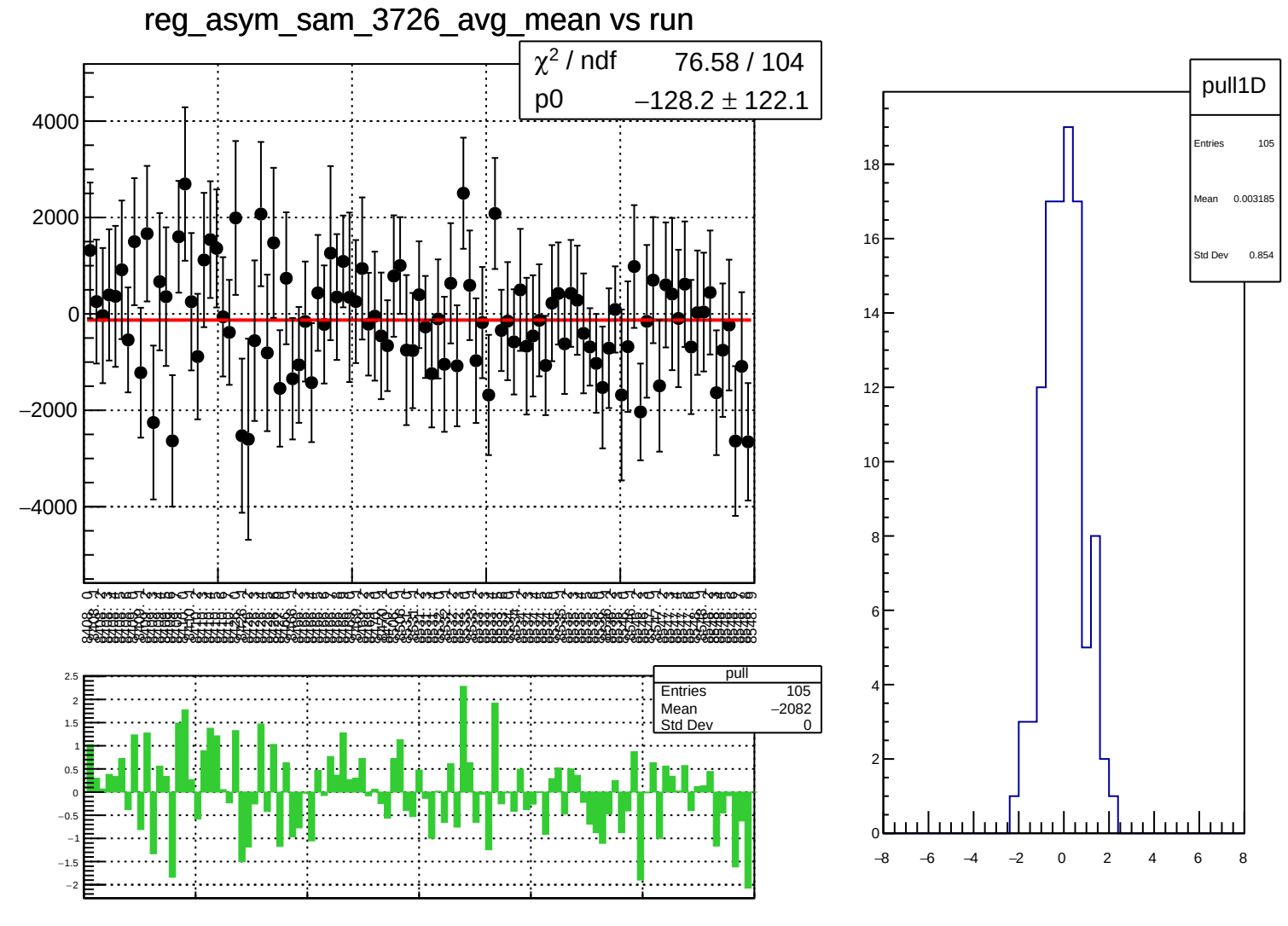

asym_sam_1526_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.957e+05 / 104
p0 19.63 ± 0.01443
45
40
35
30
25
20
15
10

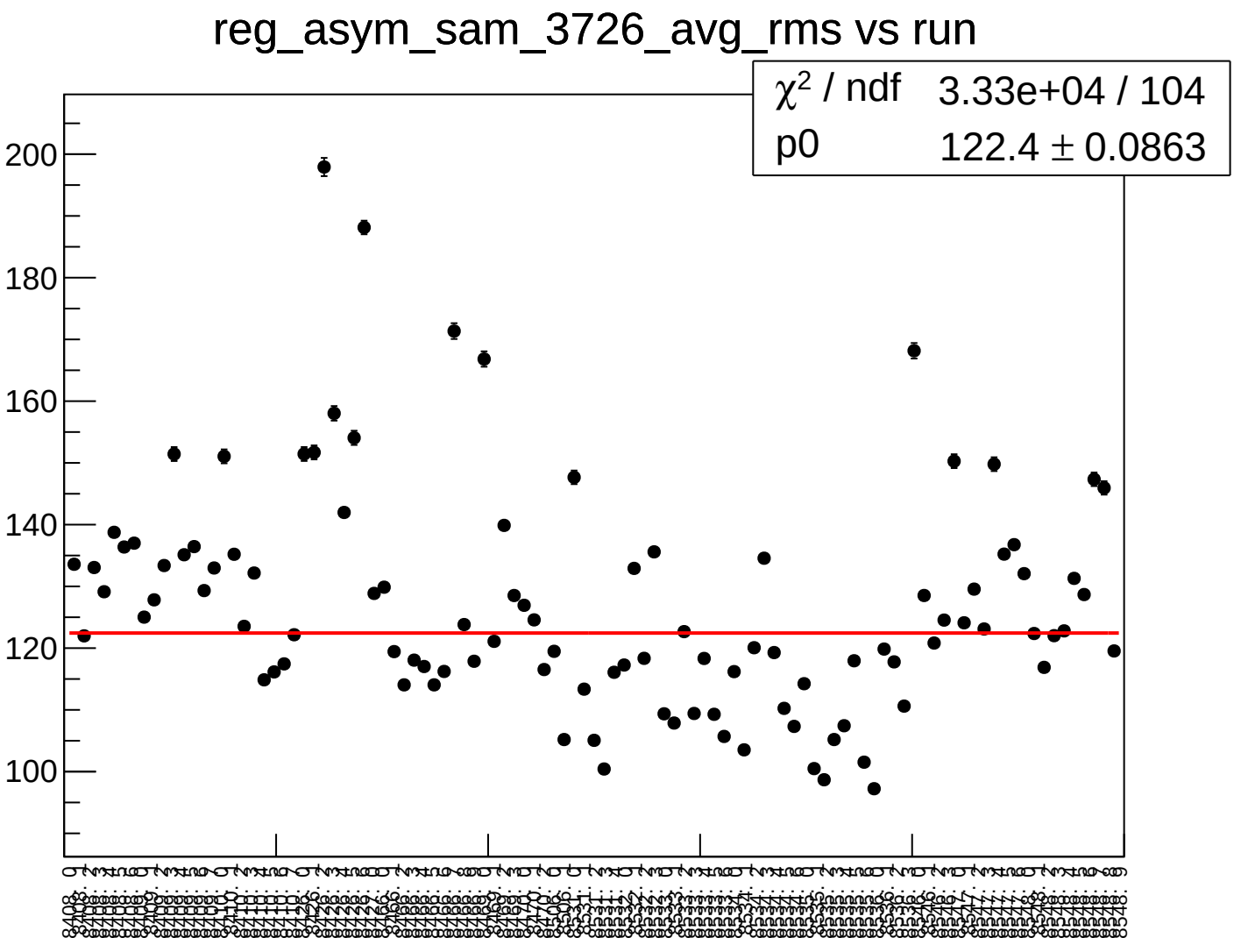

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 118.7 / 104
p0 −0.08703 ± 0.02041
pull
Entries 105
Mean 215.7
Std Dev 0
pull1D
Entries 105
Mean −0.03856
Std Dev 1.062

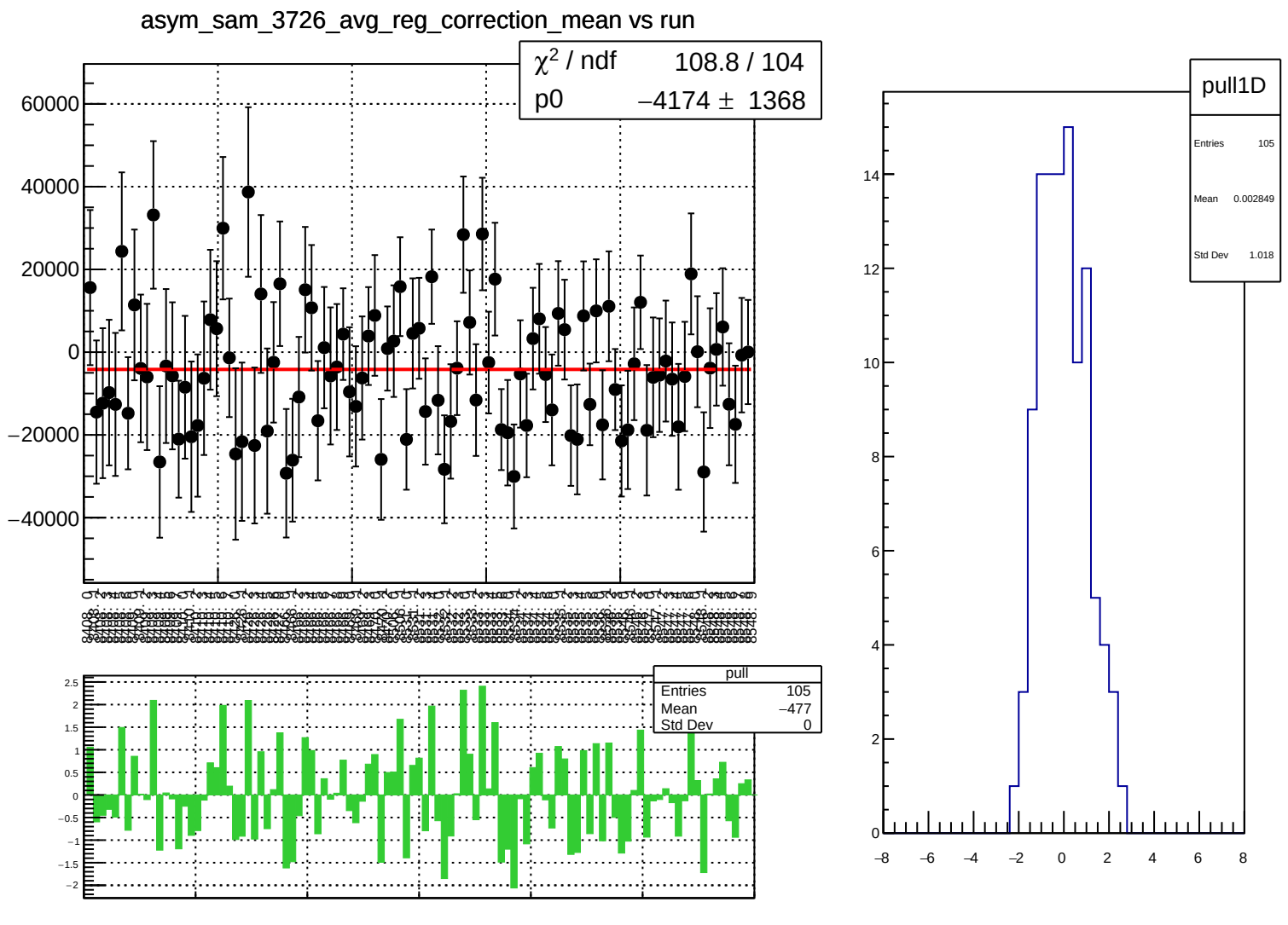

asym_sam_1526_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ^2 / ndf 1.957e+05 / 104
p0 19.63 ± 0.01443
45
40
35
30
25
20
15
10

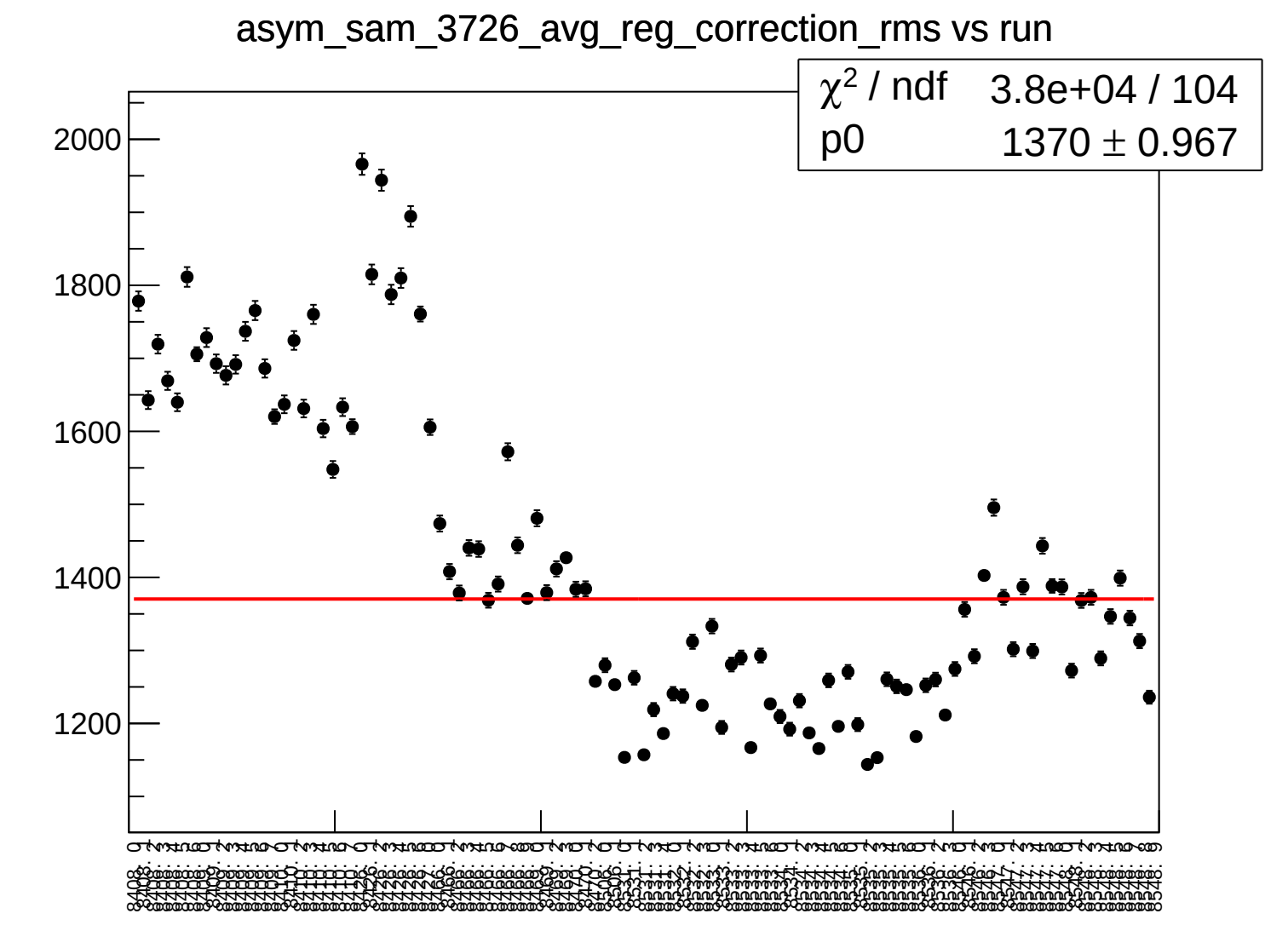

asym_sam_1526_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 95.99 / 104
p0 −6.21e−14 ± 3.809e−14
pull
Entries 105
Mean −46.56
Std Dev 0
pull1D
Entries 105
Mean −0.03005
Std Dev 0.9557

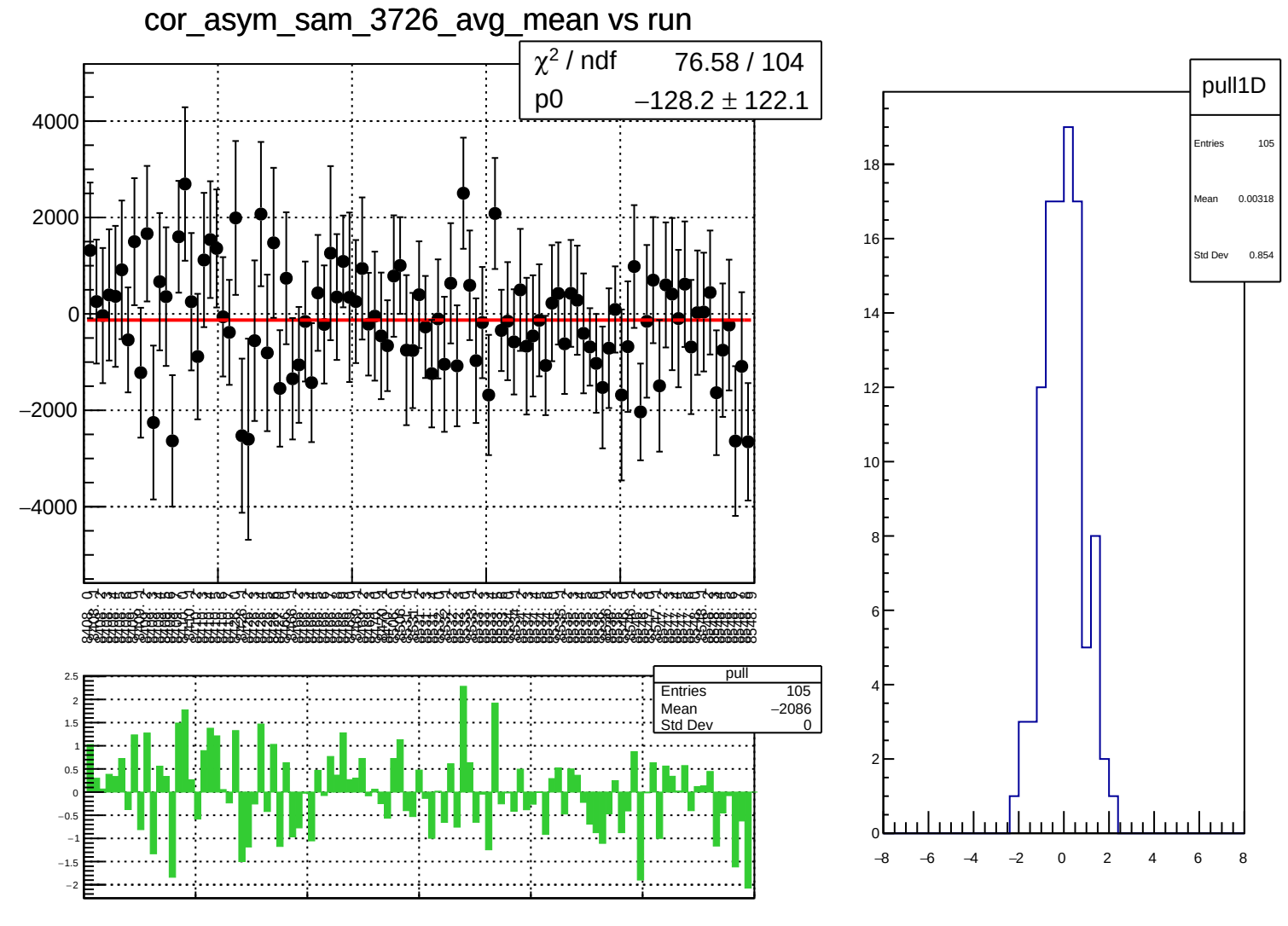

asym_sam_1526_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.077e+05 / 104
p0 3.116e−11 ± 2.693e−14
0.3
0.25
0.2
0.15
0.1
0.05

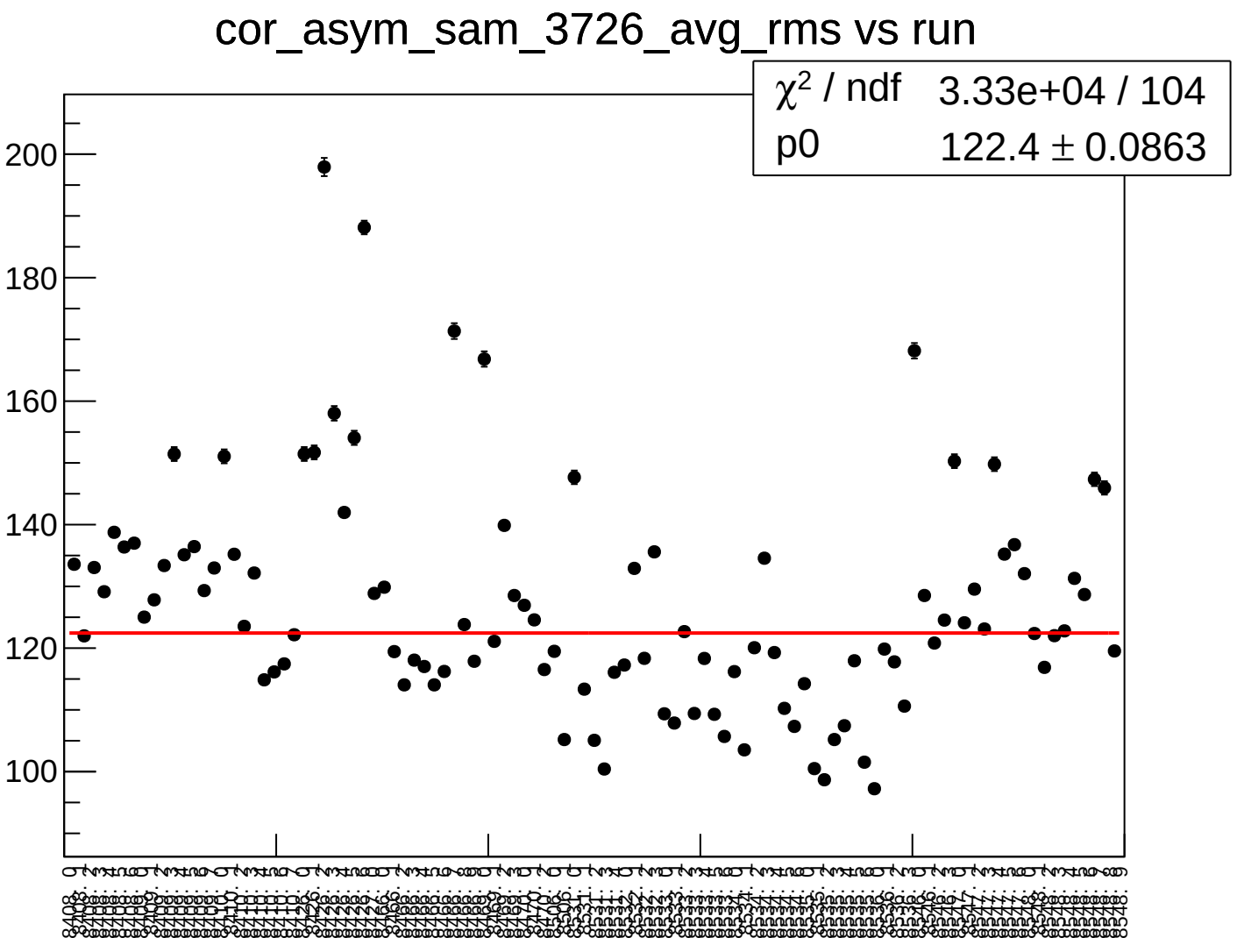

reg_asym_sam_3726_avg_mean vs run
χ² / ndf 76.58 / 104
p0 −128.2 ± 122.1
4000
2000
0
−2000
−4000
pull
Entries 105
Mean −2082
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 105
Mean 0.003185
Std Dev 0.854
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

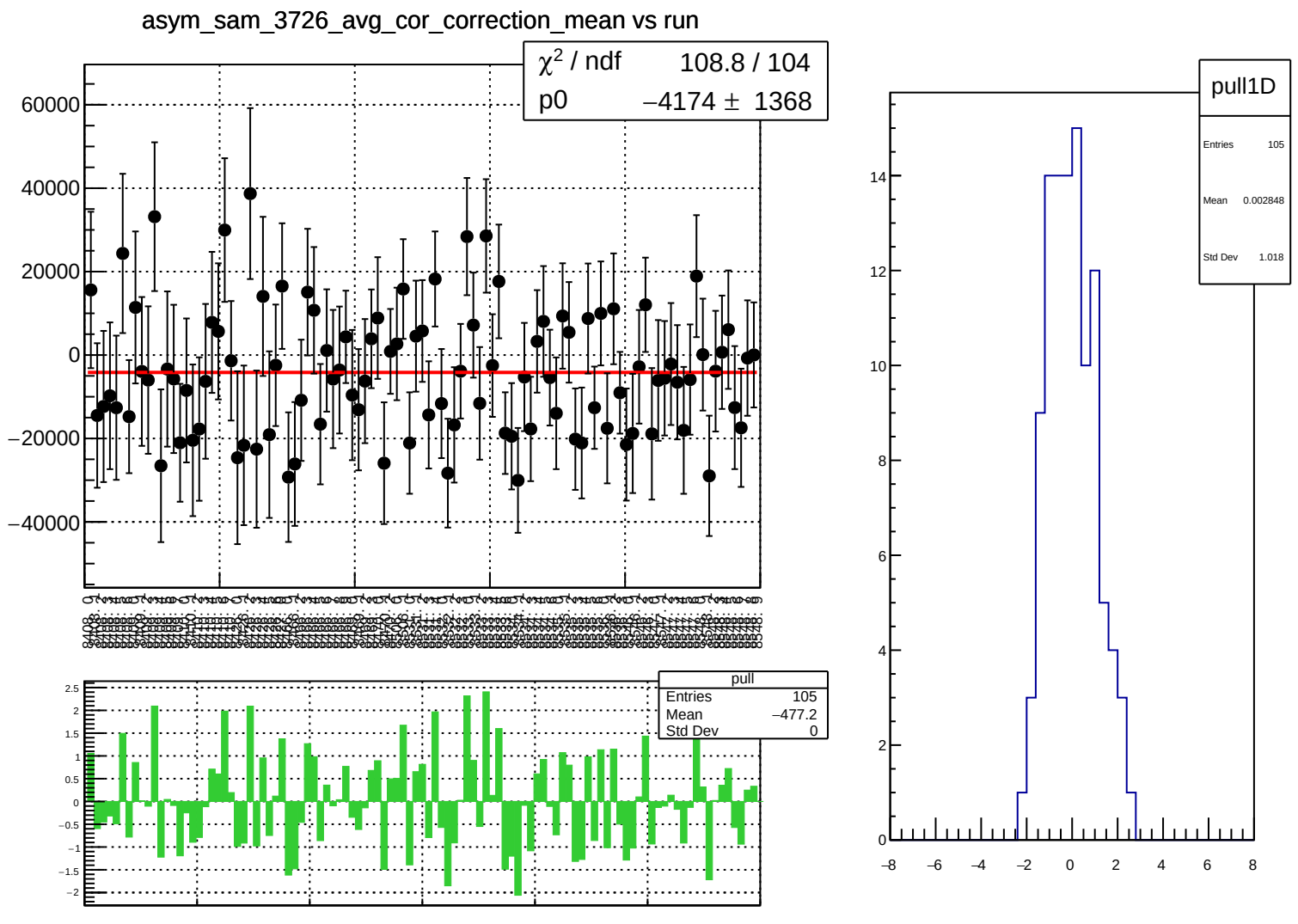

reg_asym_sam_3726_avg_rms vs run
χ² / ndf 3.33e+04 / 104
p0 122.4 ± 0.0863
200
180
160
140
120
100

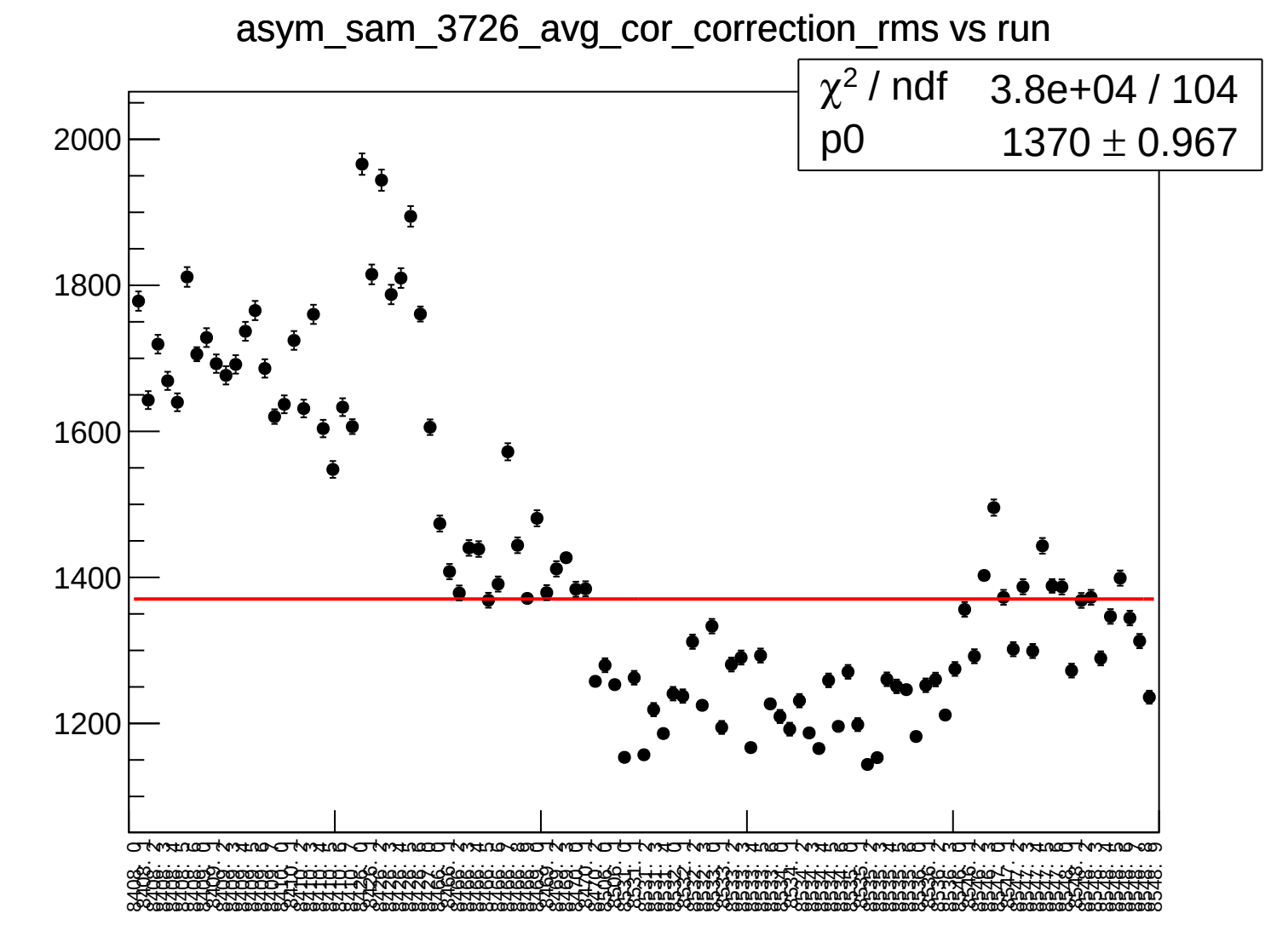

asym_sam_3726_avg_reg_correction_mean vs run
χ² / ndf 108.8 / 104
p0 −4174 ± 1368
60000
40000
20000
0
−20000
−40000
pull
Entries 105
Mean −477
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 105
Mean 0.002849
Std Dev 1.018
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

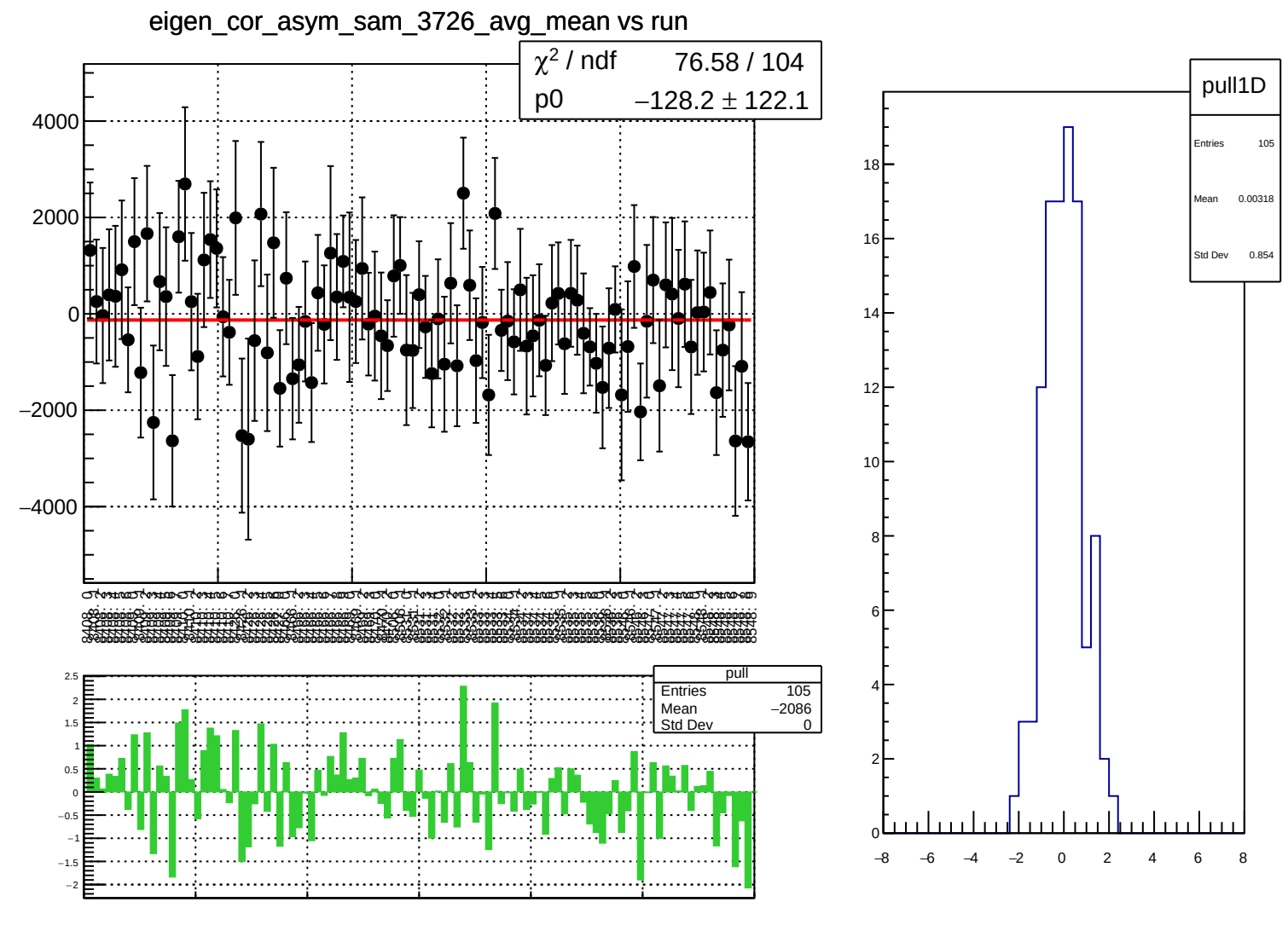

asym_sam_3726_avg_reg_correction_rms vs run
χ² / ndf 3.8e+04 / 104
p0 1370 ± 0.967
2000
1800
1600
1400
1200

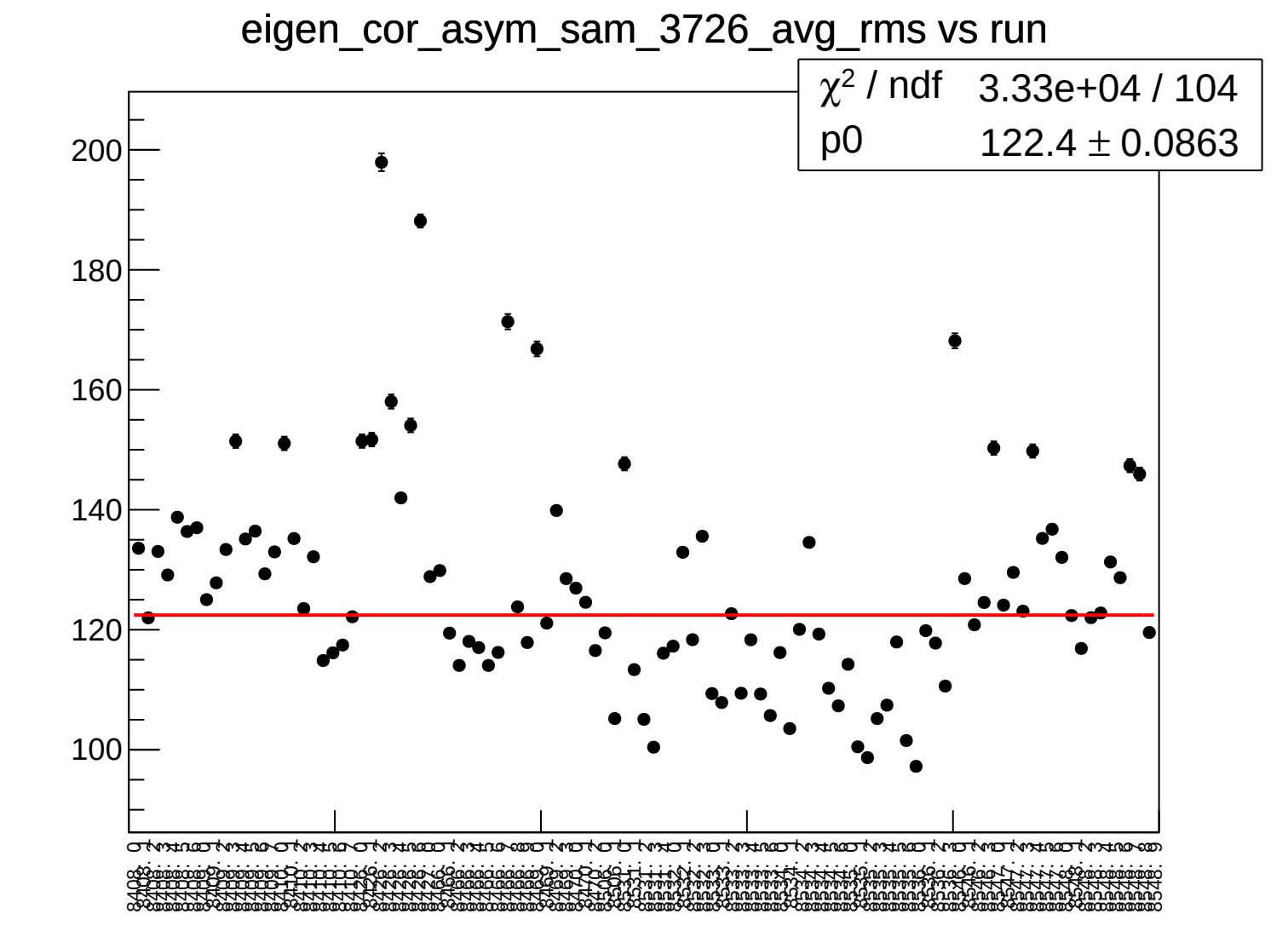

cor_asym_sam_3726_avg_mean vs run
χ² / ndf 76.58 / 104
p0 −128.2 ± 122.1
4000
2000
0
−2000
−4000
pull
Entries 105
Mean −2086
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 105
Mean 0.00318
Std Dev 0.854
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

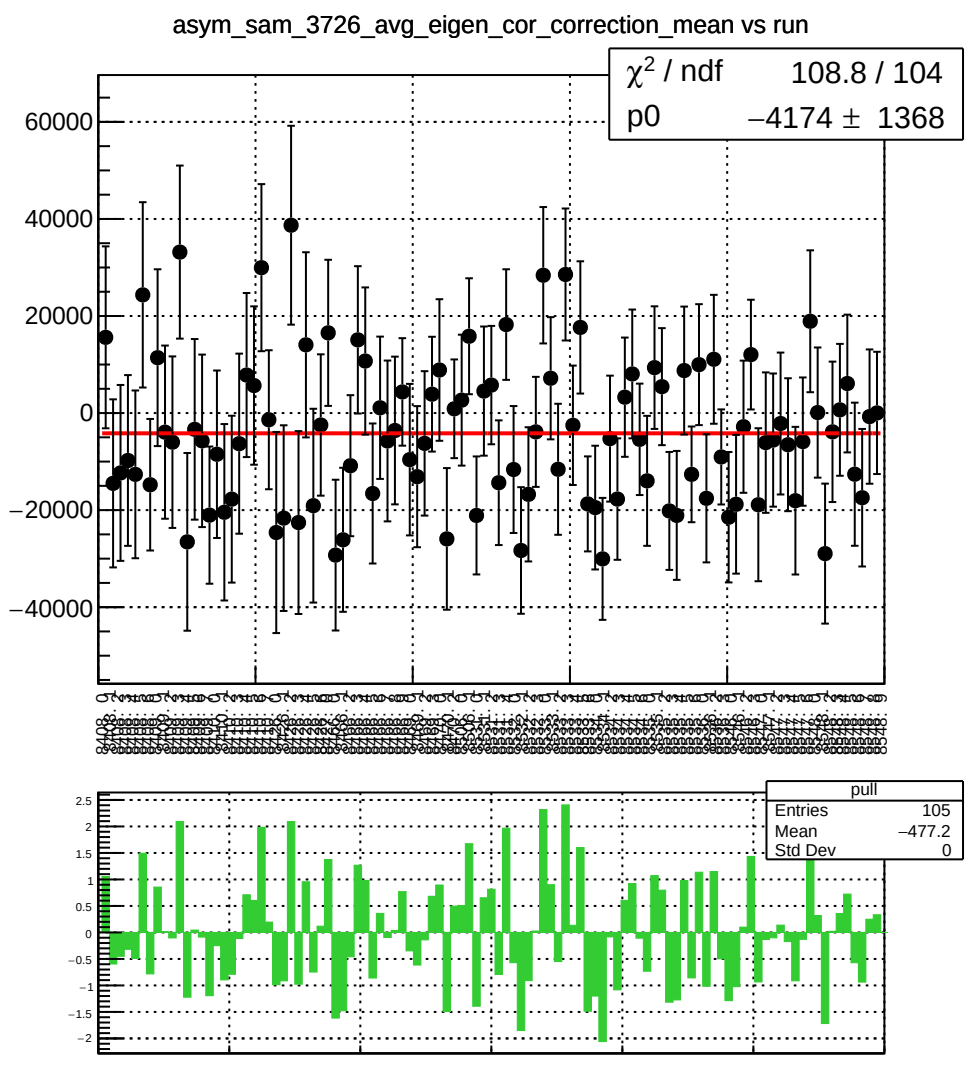

cor_asym_sam_3726_avg_rms vs run
χ² / ndf 3.33e+04 / 104
p0 122.4 ± 0.0863
200
180
160
140
120
100

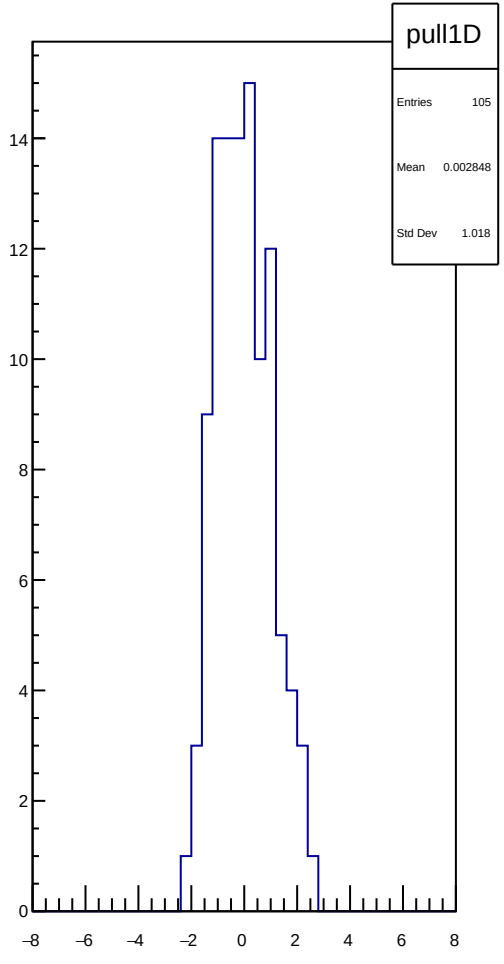

asym_sam_3726_avg_cor_correction_mean vs run
χ² / ndf 108.8 / 104
p0 −4174 ± 1368
60000
40000
20000
0
−20000
−40000
pull
Entries 105
Mean −477.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 105
Mean 0.002848
Std Dev 1.018
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

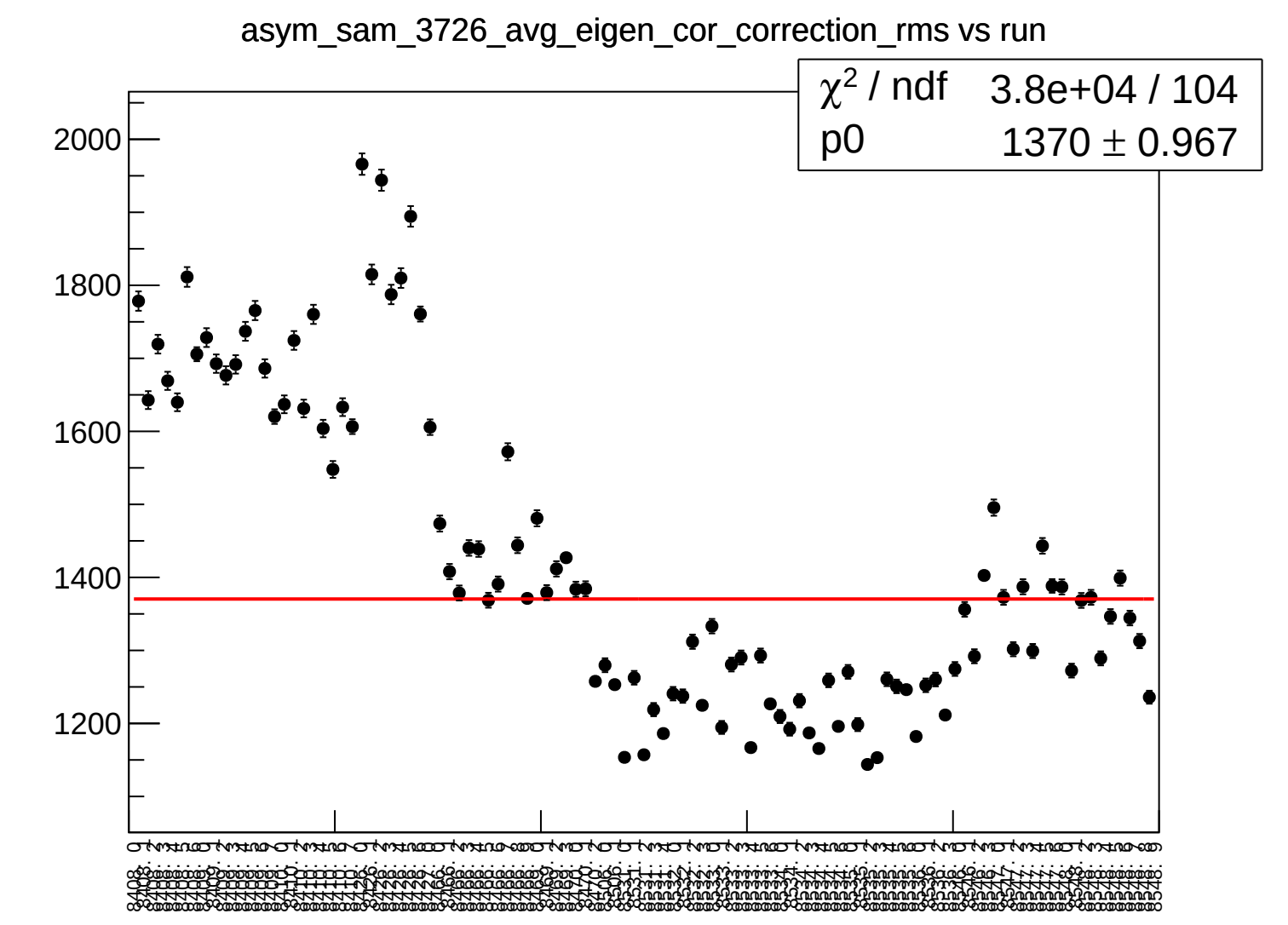

asym_sam_3726_avg_cor_correction_rms vs run
χ² / ndf 3.8e+04 / 104
p0 1370 ± 0.967
2000
1800
1600
1400
1200

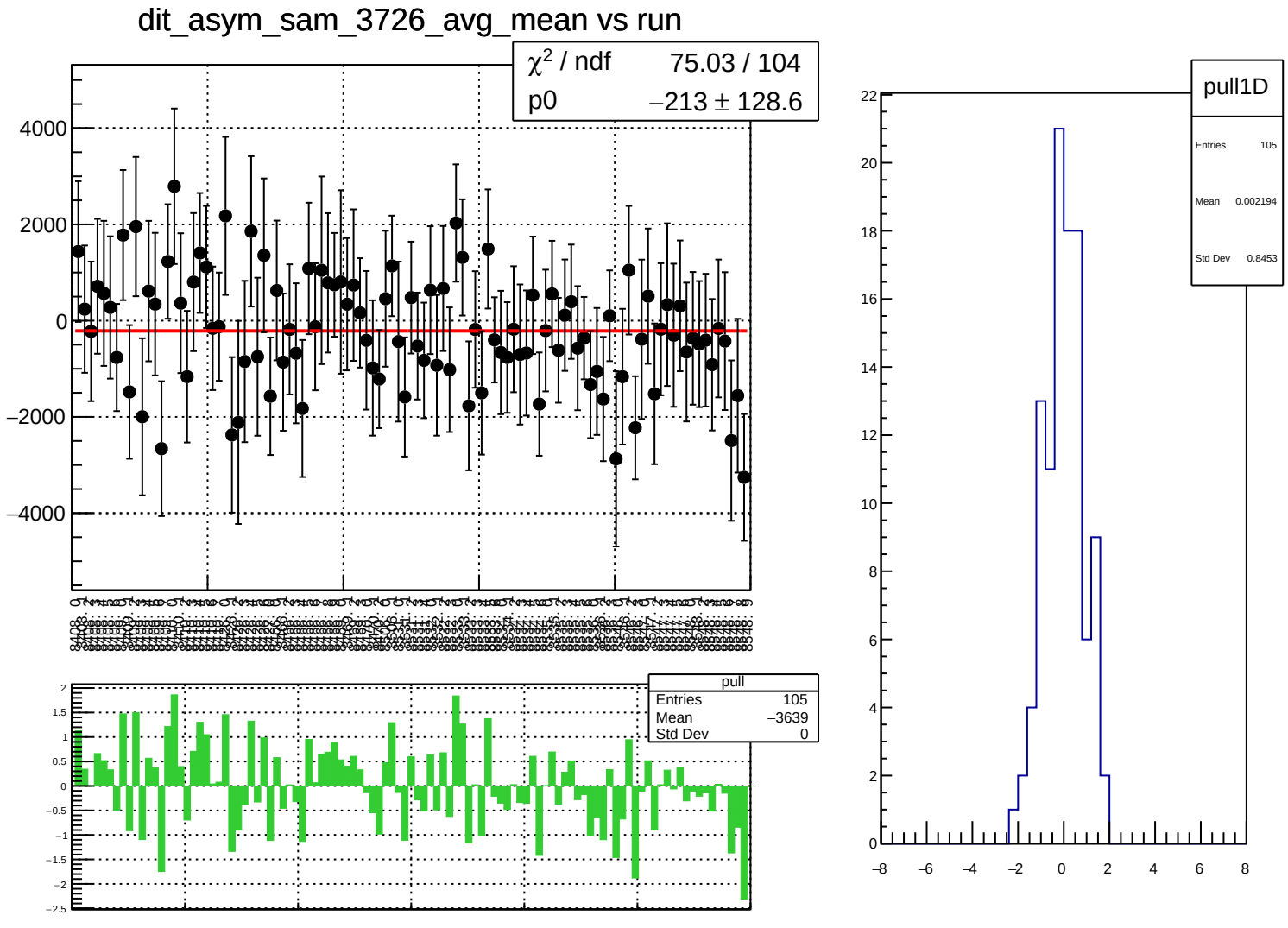

eigen_cor_asym_sam_3726_avg_mean vs run
χ² / ndf 76.58 / 104
p0 −128.2 ± 122.1
4000
2000
0
−2000
−4000
pull
Entries 105
Mean −2086
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 105
Mean 0.00318
Std Dev 0.854
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

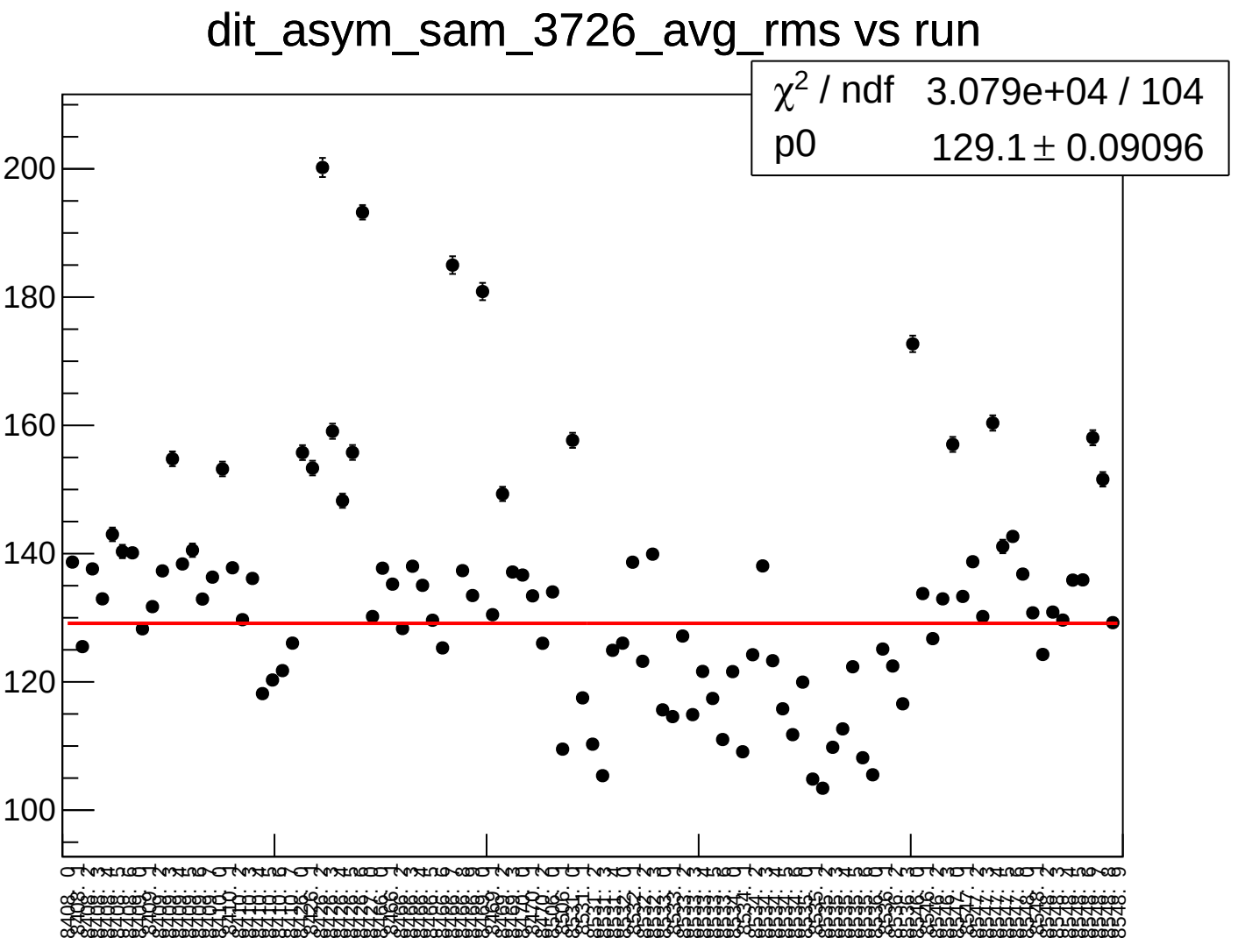

eigen_cor_asym_sam_3726_avg_rms vs run
χ² / ndf 3.33e+04 / 104
p0 122.4 ± 0.0863
200
180
160
140
120
100

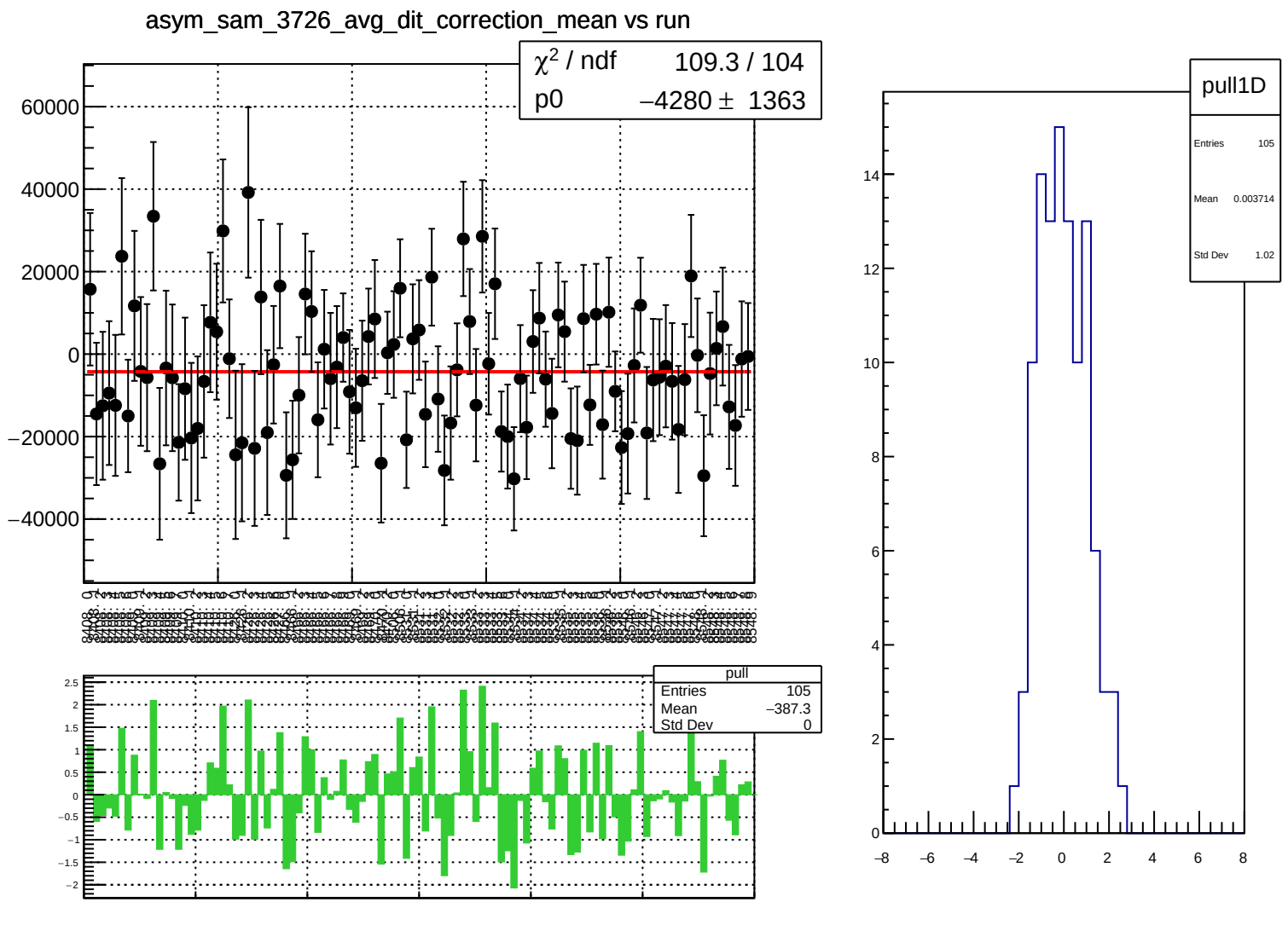

asym_sam_3726_avg_eigen_cor_correction_mean vs run
χ² / ndf 108.8 / 104
p0 −4174 ± 1368
60000
40000
20000
0
−20000
−40000
pull
Entries 105
Mean −477.2
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

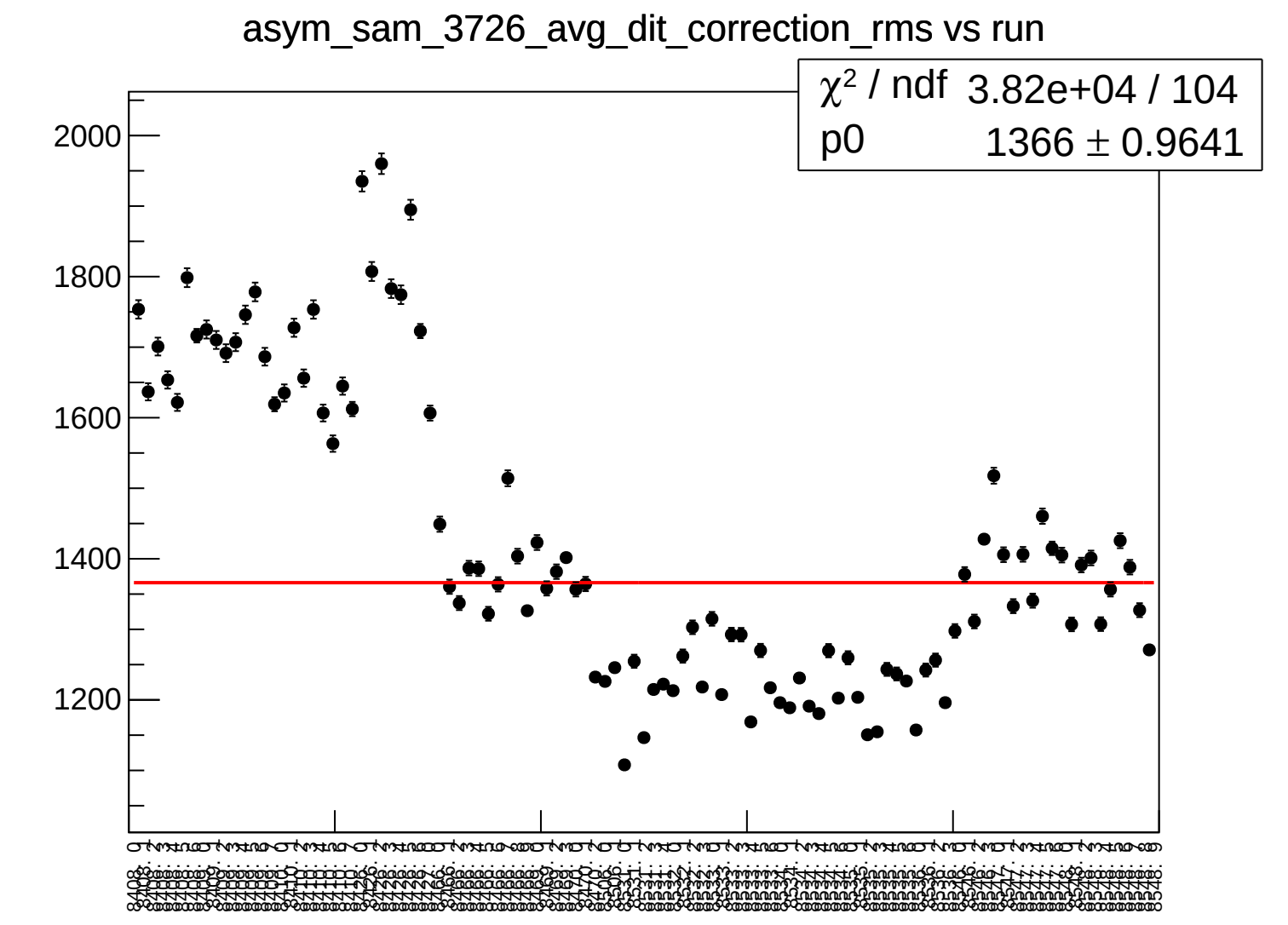

pull1D
Entries 105
Mean 0.002848
Std Dev 1.018
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

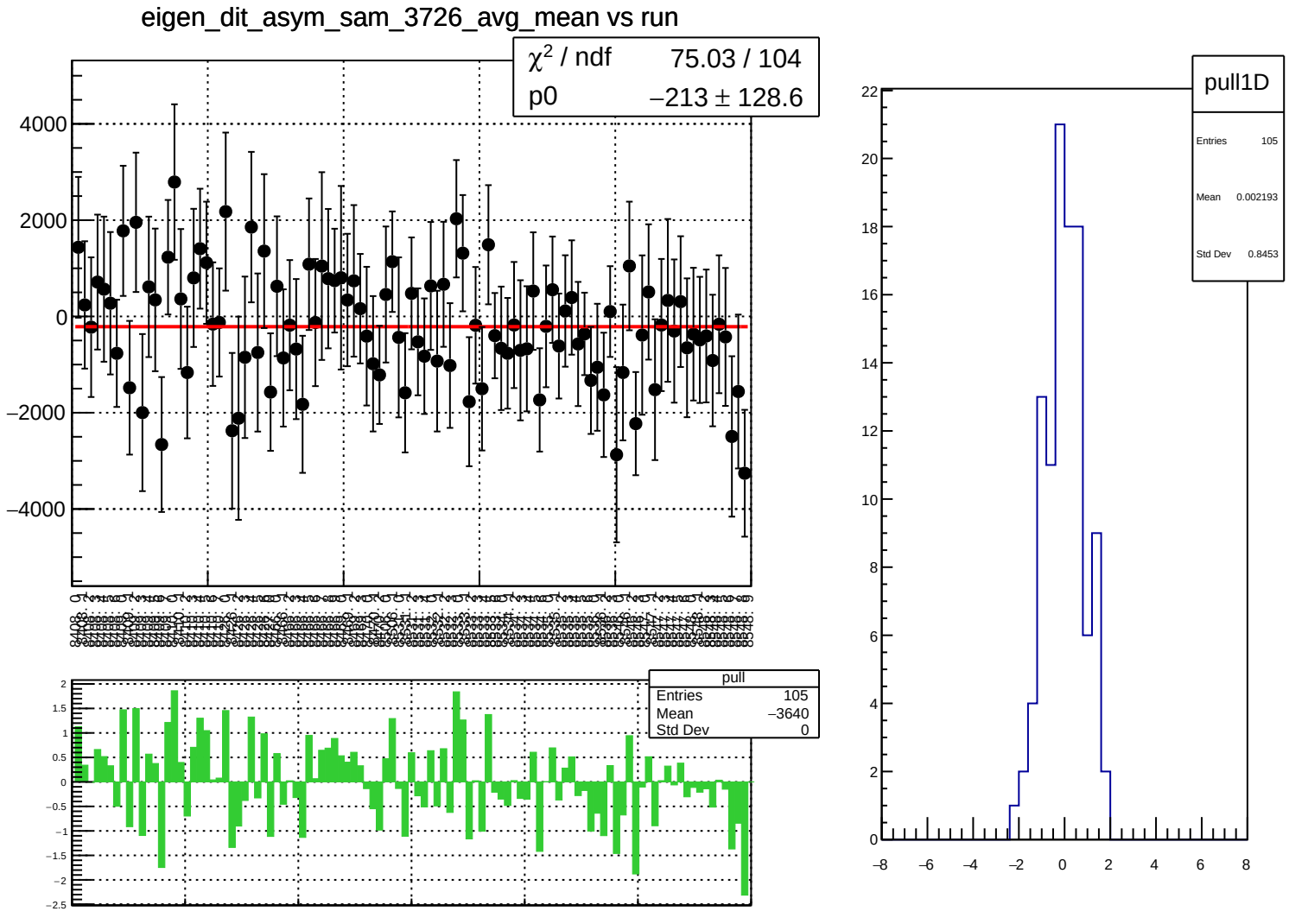

asym_sam_3726_avg_eigen_cor_correction_rms vs run
χ² / ndf 3.8e+04 / 104
p0 1370 ± 0.967
2000
1800
1600
1400
1200

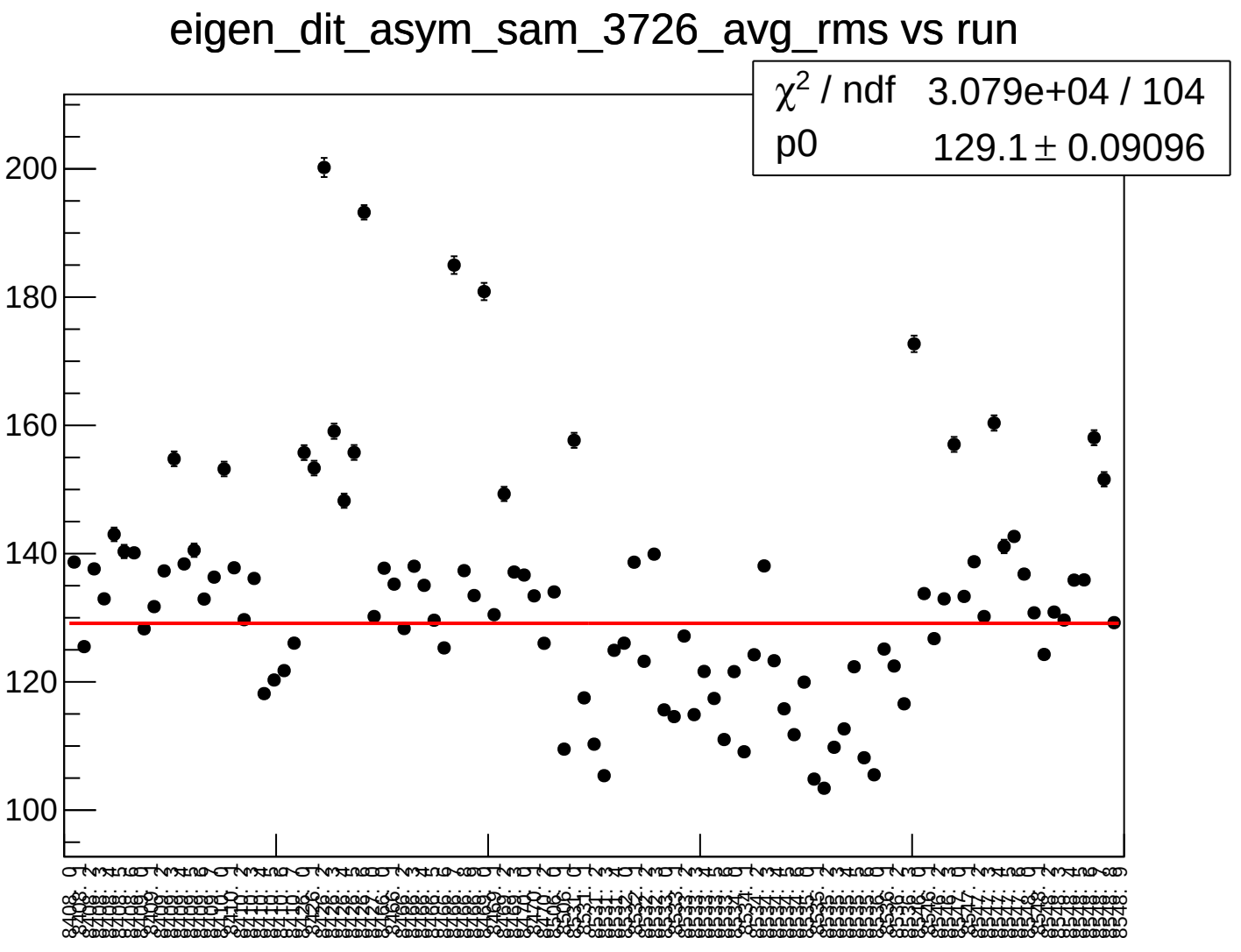

dit_asym_sam_3726_avg_mean vs run
χ² / ndf 75.03 / 104
p0 −213 ± 128.6
4000
2000
0
−2000
−4000
pull
Entries 105
Mean −3639
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 105
Mean 0.002194
Std Dev 0.8453
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

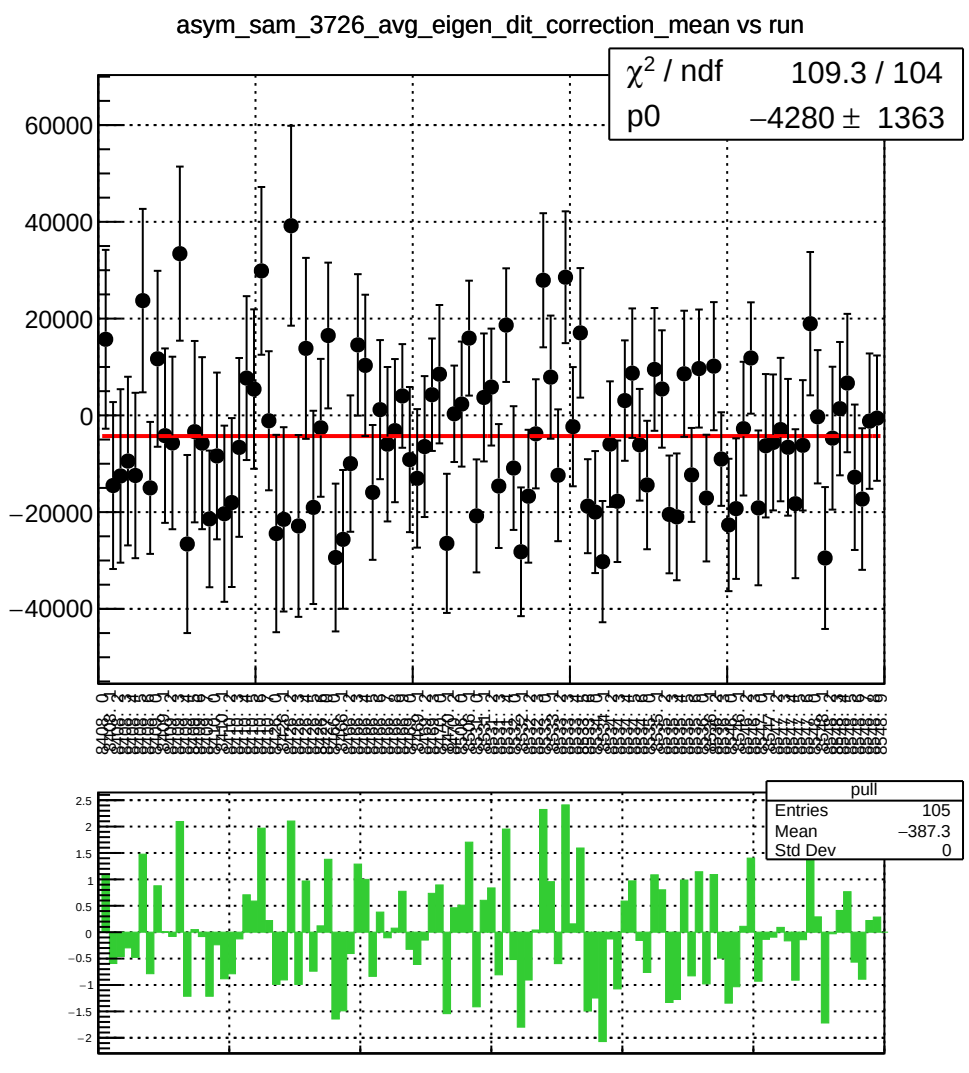

dit_asym_sam_3726_avg_rms vs run
χ^2 / ndf 3.079e+04 / 104
p0 129.1 ± 0.09096
200
180
160
140
120
100

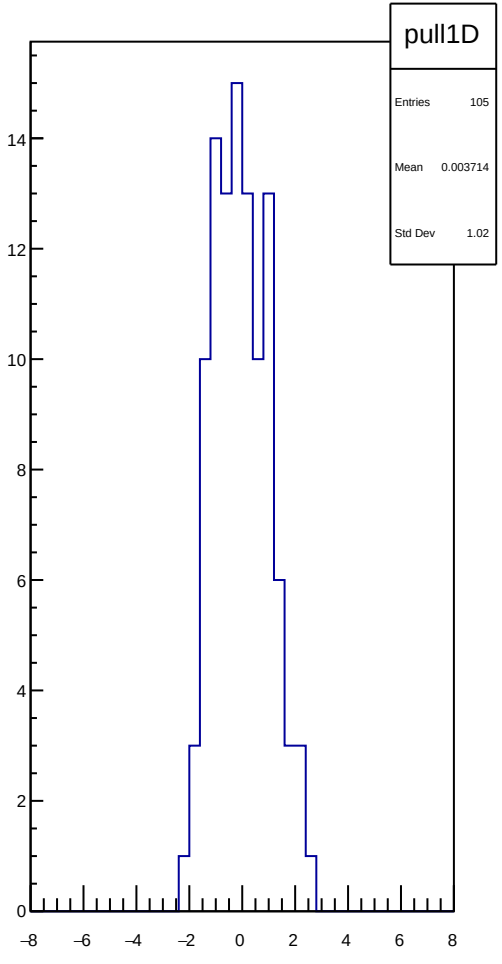

asym_sam_3726_avg_dit_correction_mean vs run
χ² / ndf 109.3 / 104
p0 −4280 ± 1363
60000
40000
20000
0
−20000
−40000
pull
Entries 105
Mean −387.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 105
Mean 0.003714
Std Dev 1.02
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

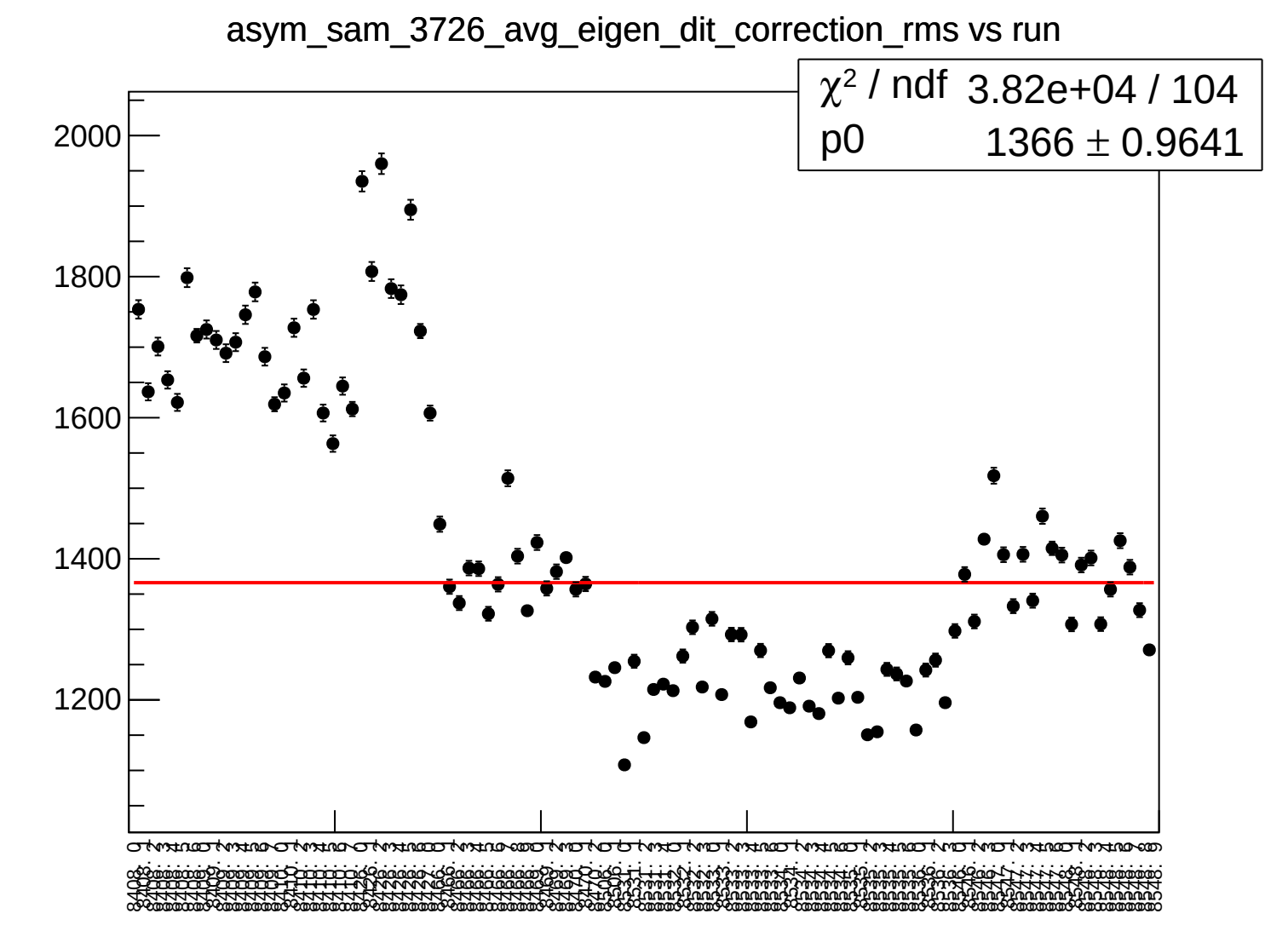

asym_sam_3726_avg_dit_correction_rms vs run
χ² / ndf 3.82e+04 / 104
p0 1366 ± 0.9641
2000
1800
1600
1400
1200

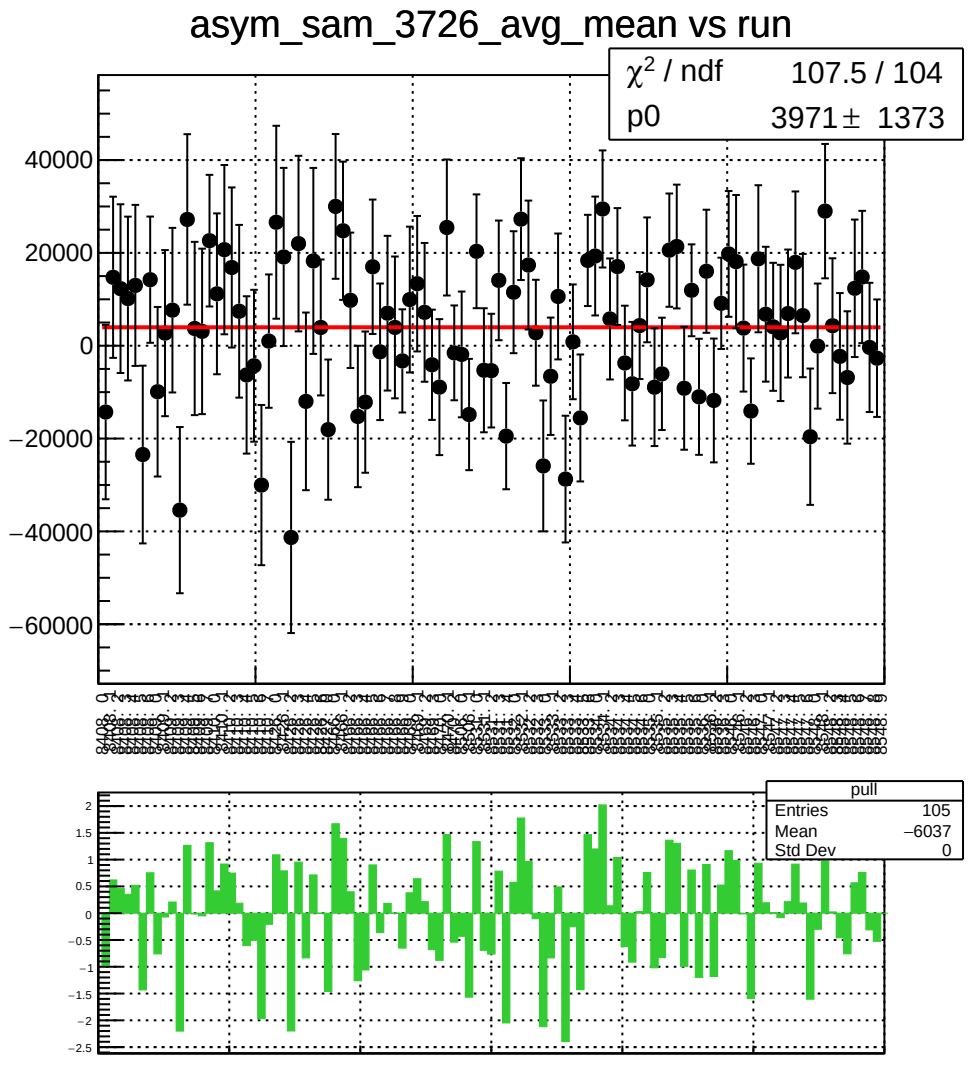

eigen_dit_asym_sam_3726_avg_mean vs run
χ² / ndf 75.03 / 104
p0 −213 ± 128.6
4000
2000
0
−2000
−4000
pull
Entries 105
Mean −3640
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 105
Mean 0.002193
Std Dev 0.8453
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

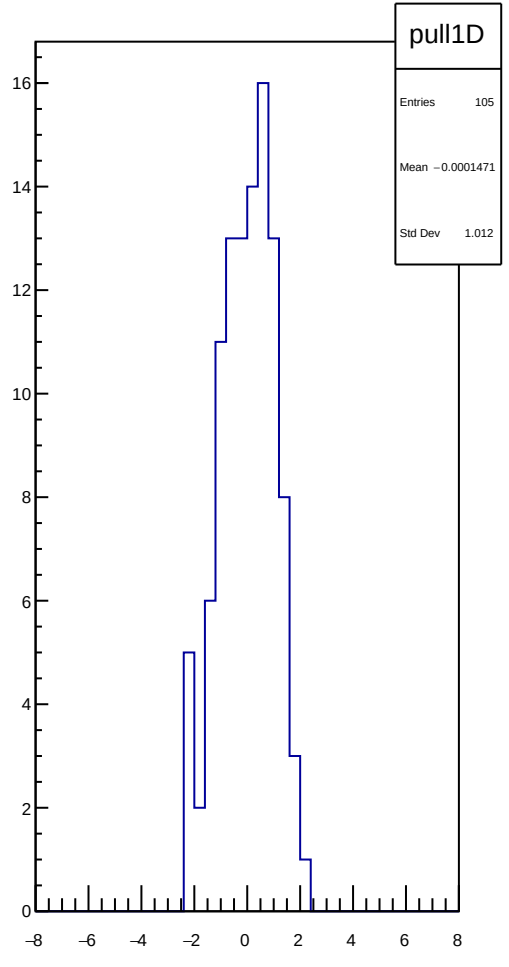

eigen_dit_asym_sam_3726_avg_rms vs run
χ² / ndf 3.079e+04 / 104
p0 129.1 ± 0.09096
200
180
160
140
120
100

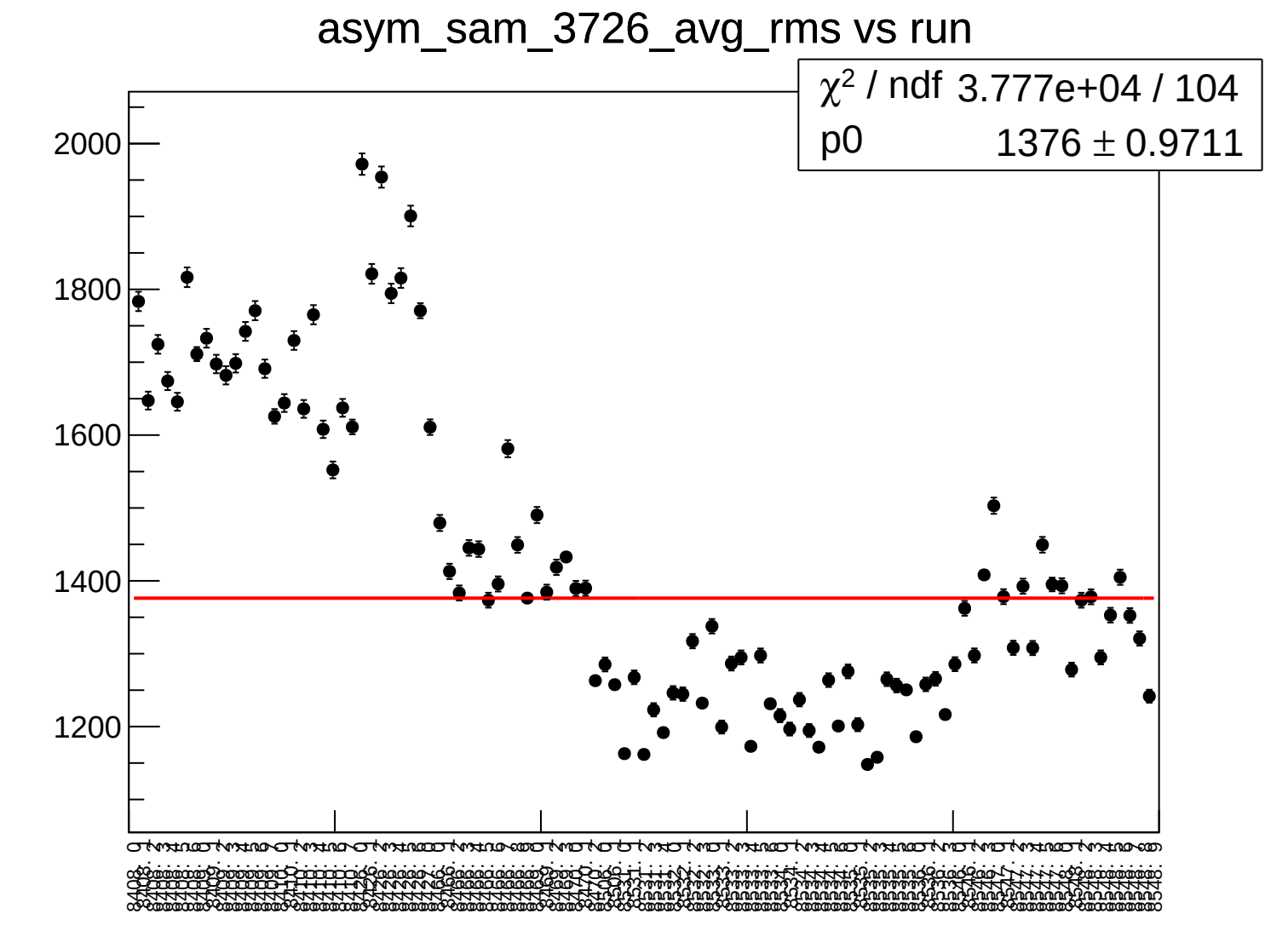

asym_sam_3726_avg_eigen_dit_correction_mean vs run
χ² / ndf 109.3 / 104
p0 −4280 ± 1363
60000
40000
20000
0
−20000
−40000
pull
Entries 105
Mean −387.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

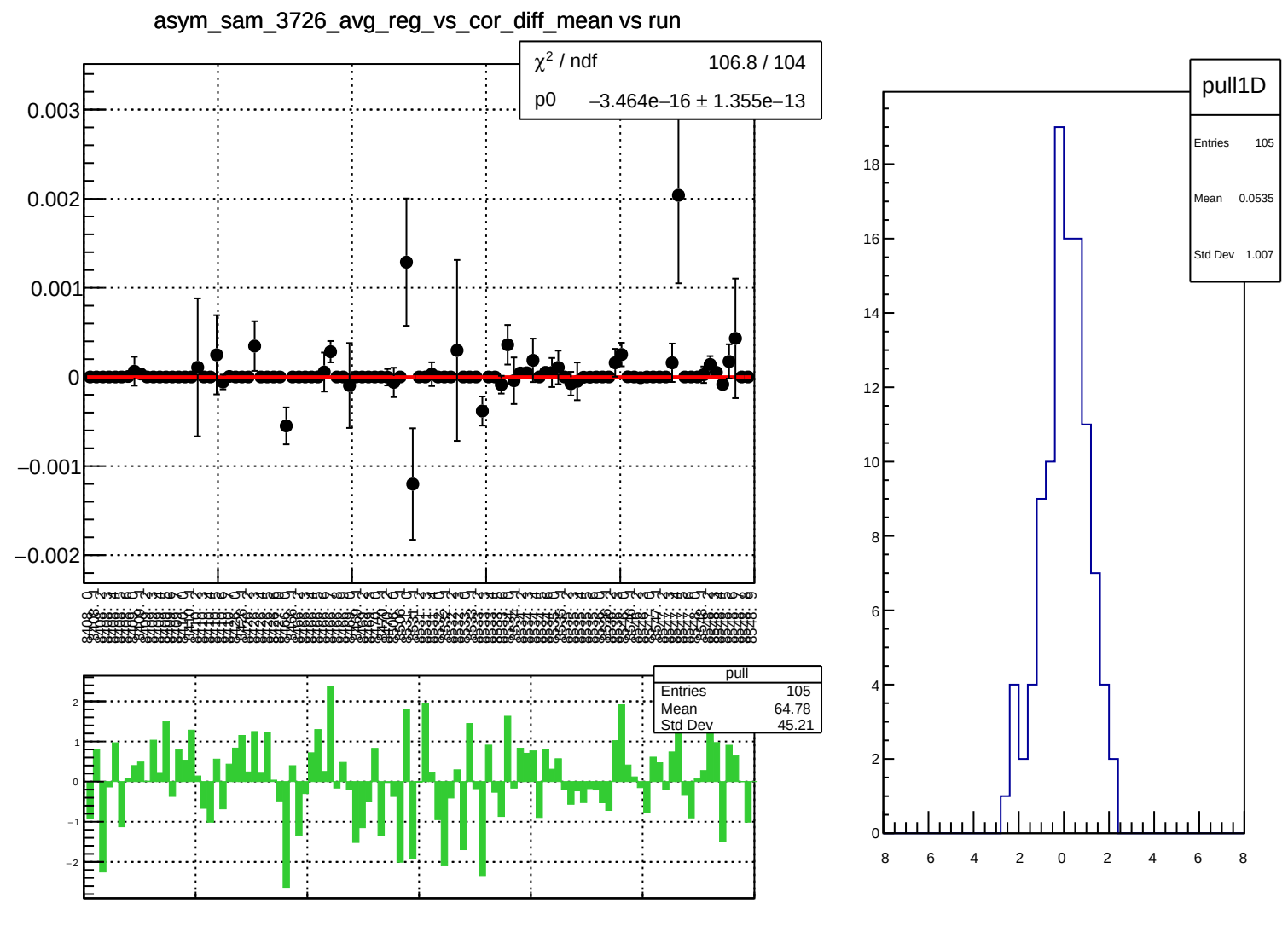

pull1D
Entries 105
Mean 0.003714
Std Dev 1.02
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

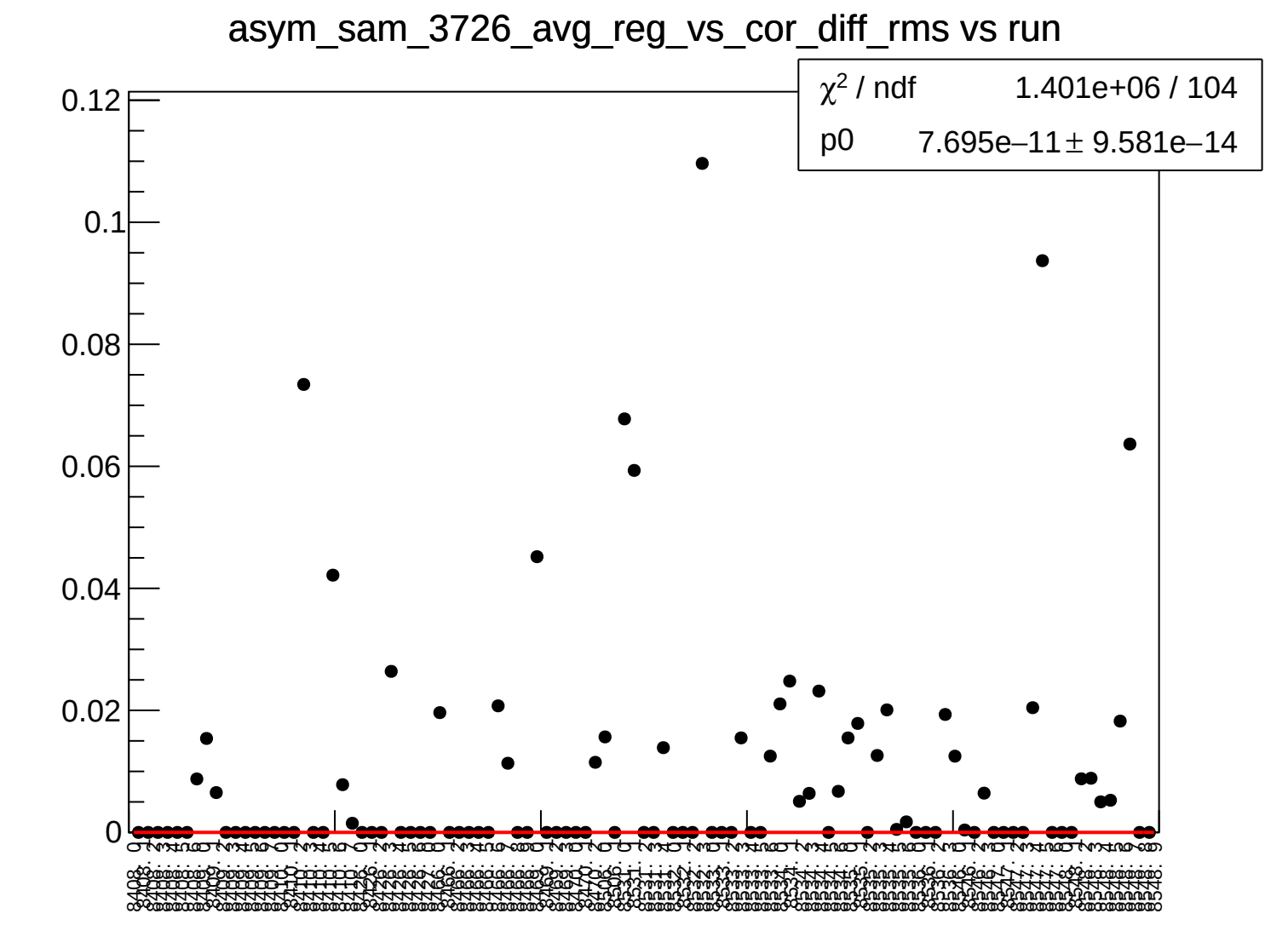

asym_sam_3726_avg_eigen_dit_correction_rms vs run
χ² / ndf 3.82e+04 / 104
p0 1366 ± 0.9641
2000
1800
1600
1400
1200

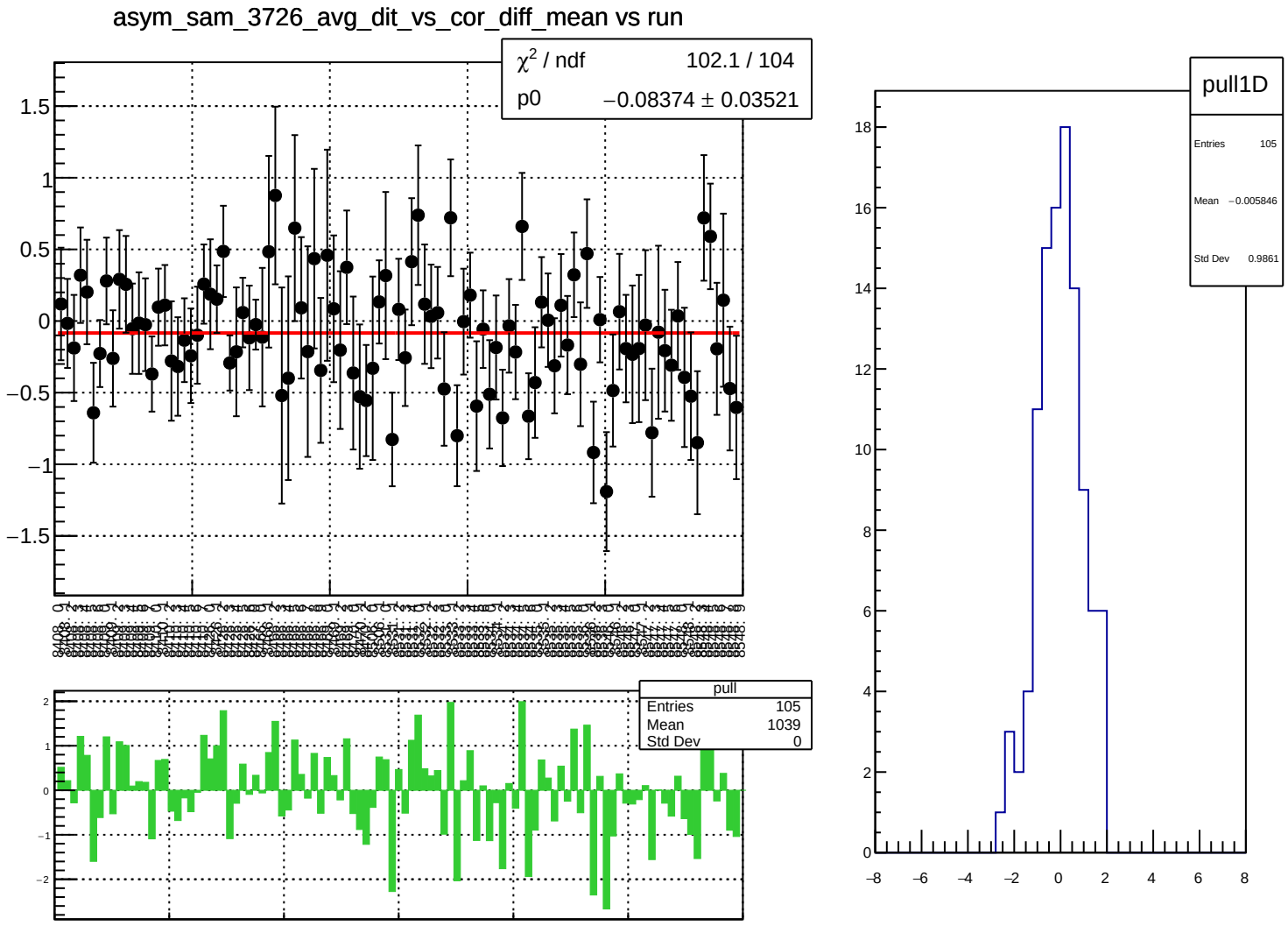

asym_sam_3726_avg_mean vs run
χ² / ndf 107.5 / 104
p0 3971 ± 1373
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean −6037
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

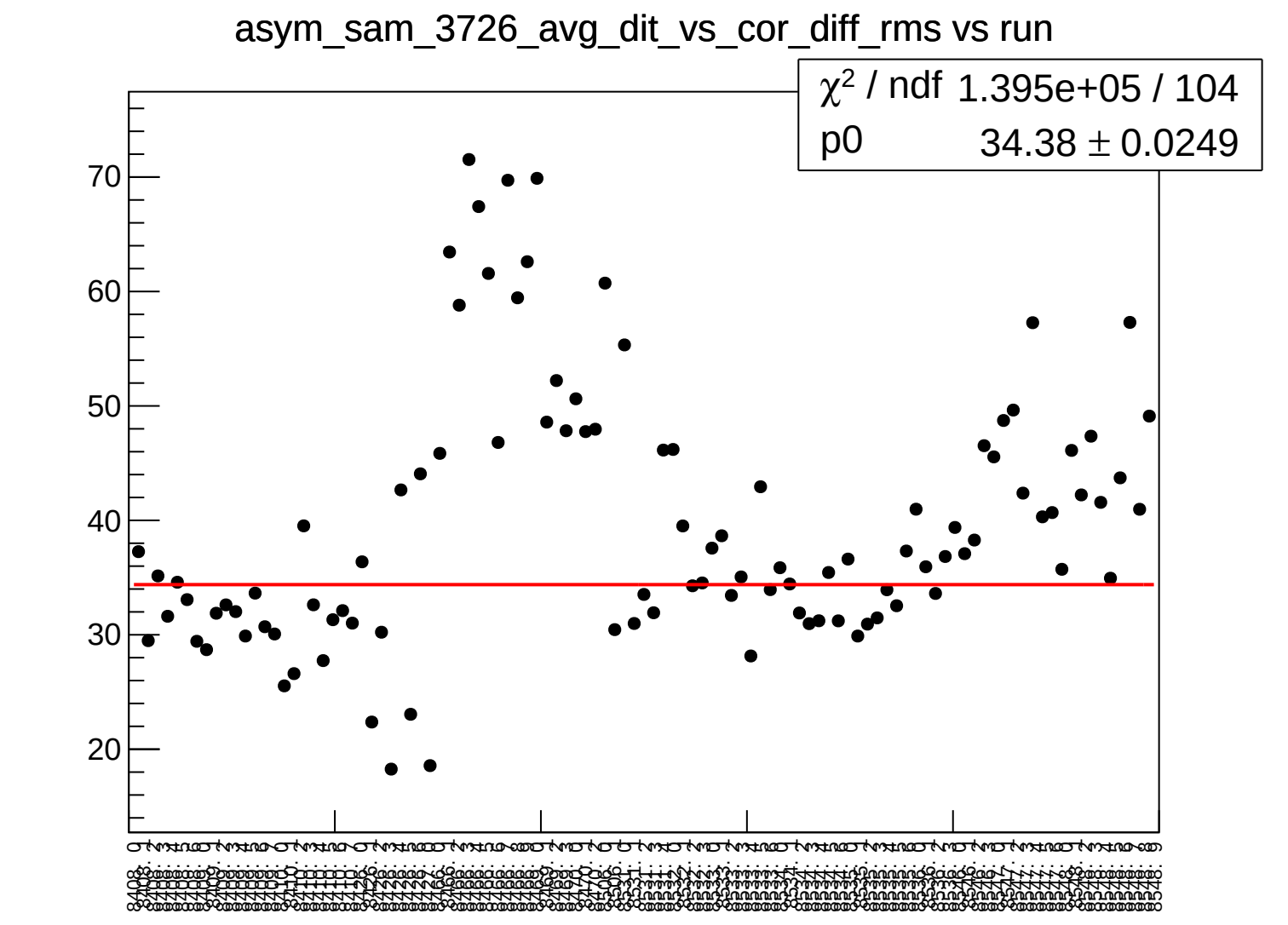

pull1D
Entries 105
Mean −0.0001471
Std Dev 1.012
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

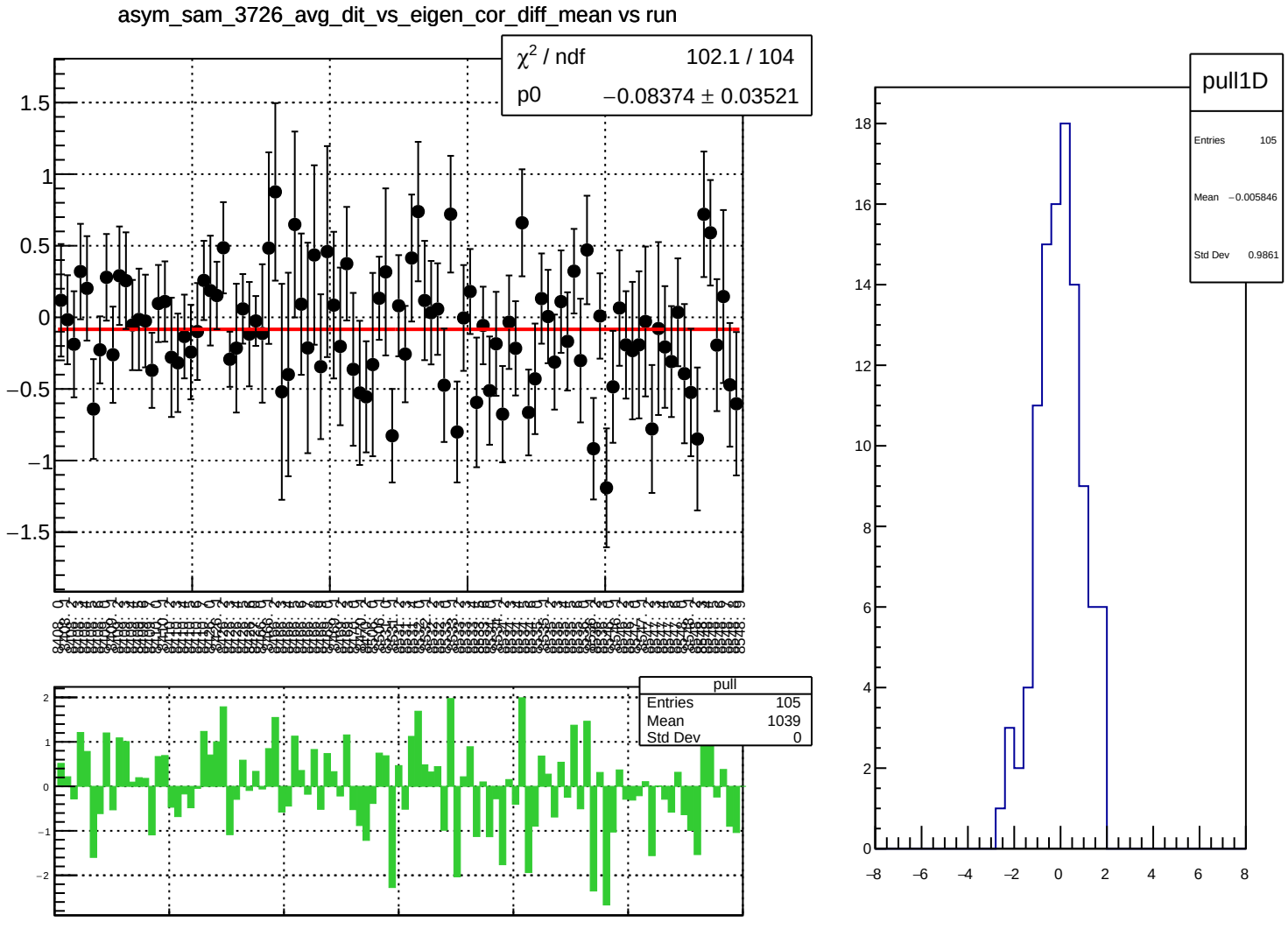

asym_sam_3726_avg_rms vs run
χ² / ndf 3.777e+04 / 104
p0 1376 ± 0.9711
2000
1800
1600
1400
1200

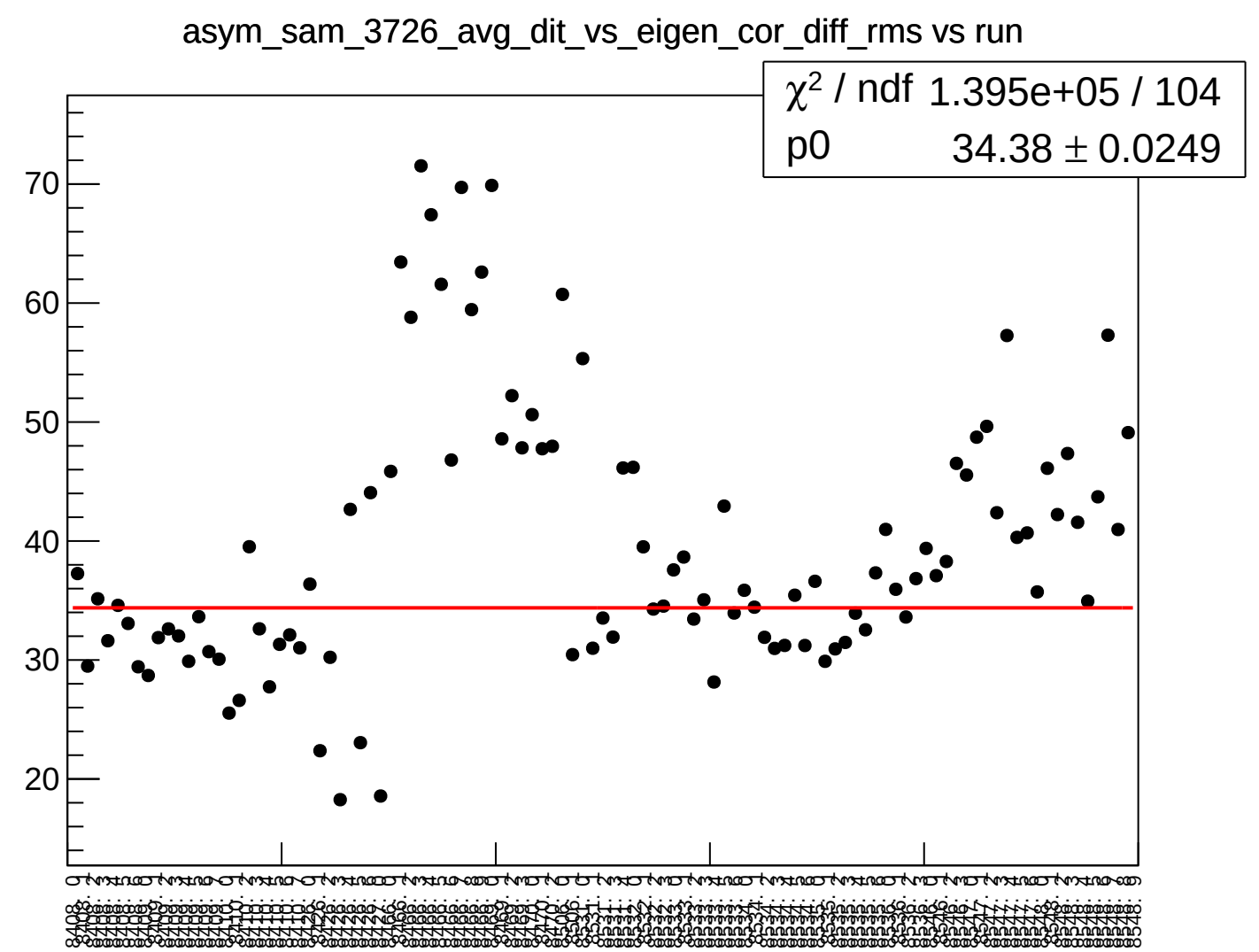

asym_sam_3726_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 106.8 / 104
p0 −3.464e−16 ± 1.355e−13
0.003
0.002
0.001
0
−0.001
−0.002
pull
Entries 105
Mean 64.78
Std Dev 45.21
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.0535
Std Dev 1.007
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

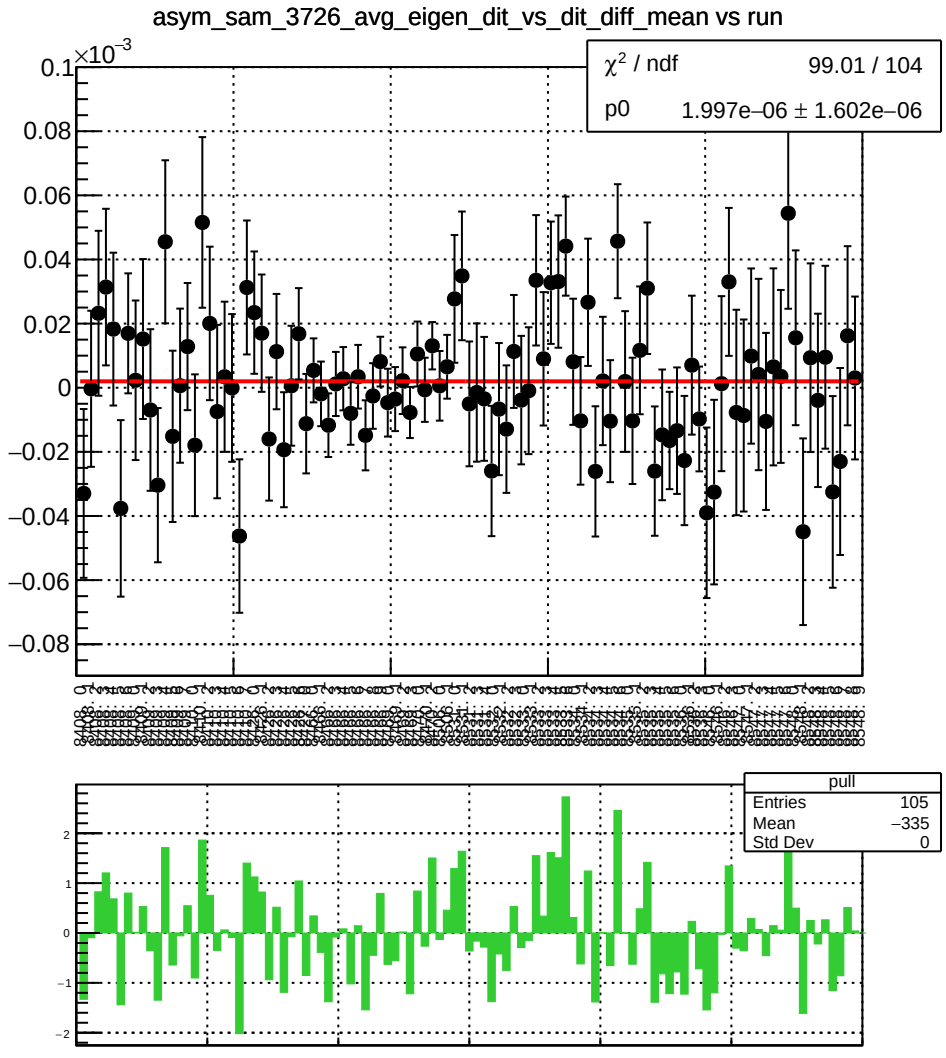

asym_sam_3726_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.401e+06 / 104
p0 7.695e−11 ± 9.581e−14
0.12
0.1
0.08
0.06
0.04
0.02
0

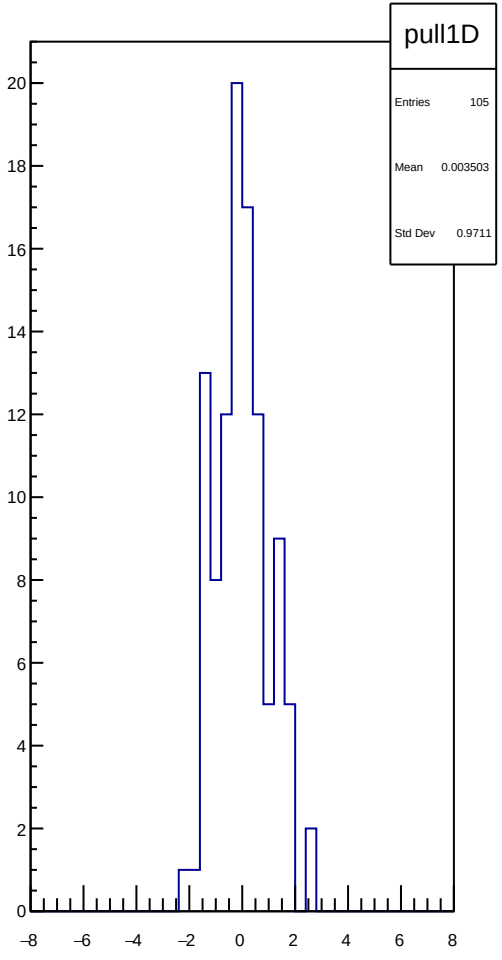

asym_sam_3726_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 102.1 / 104
p0 −0.08374 ± 0.03521
pull
Entries 105
Mean 1039
Std Dev 0
pull1D
Entries 105
Mean −0.005846
Std Dev 0.9861

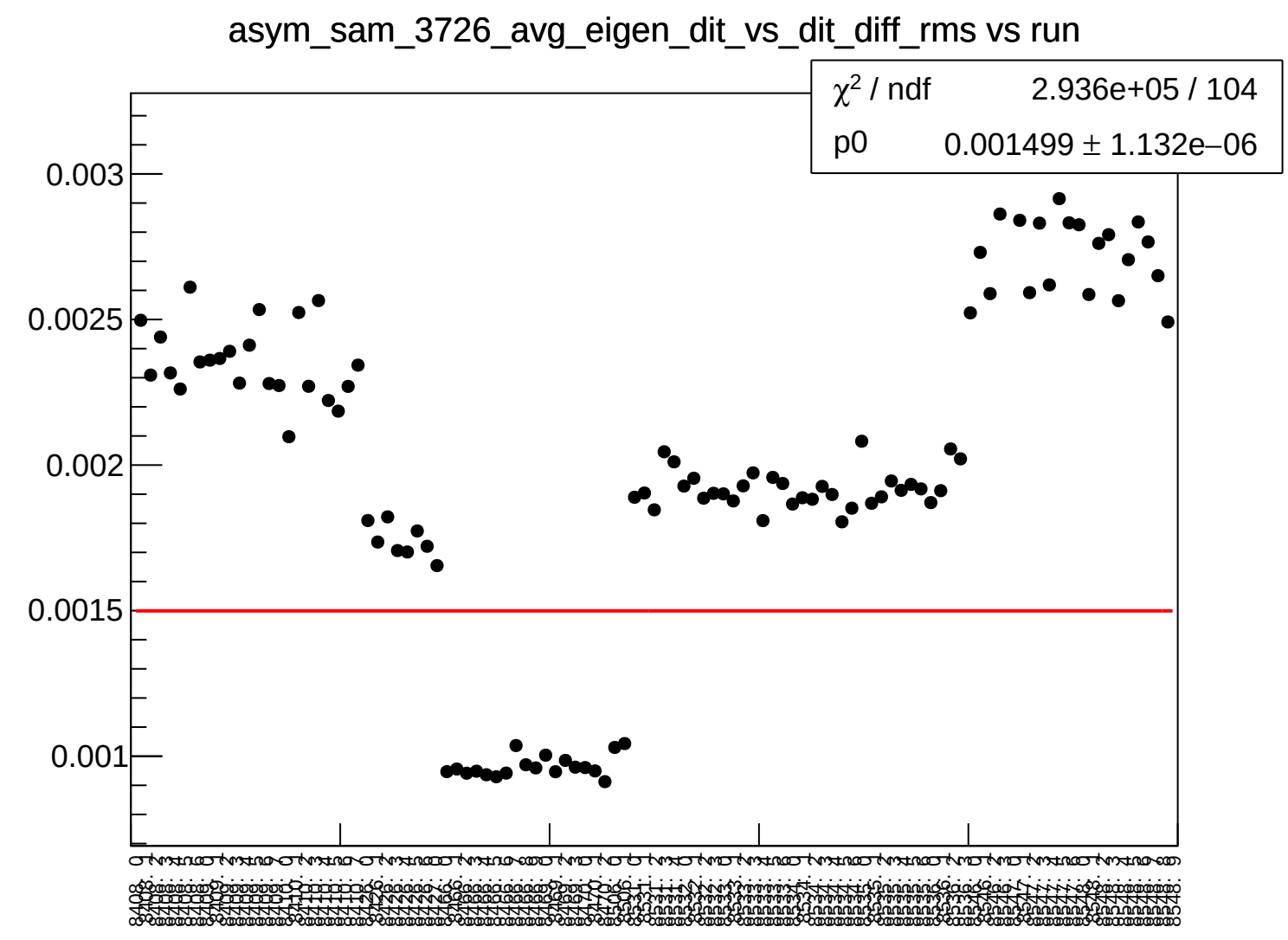

asym_sam_3726_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.395e+05 / 104
p0 34.38 ± 0.0249
70
60
50
40
30
20

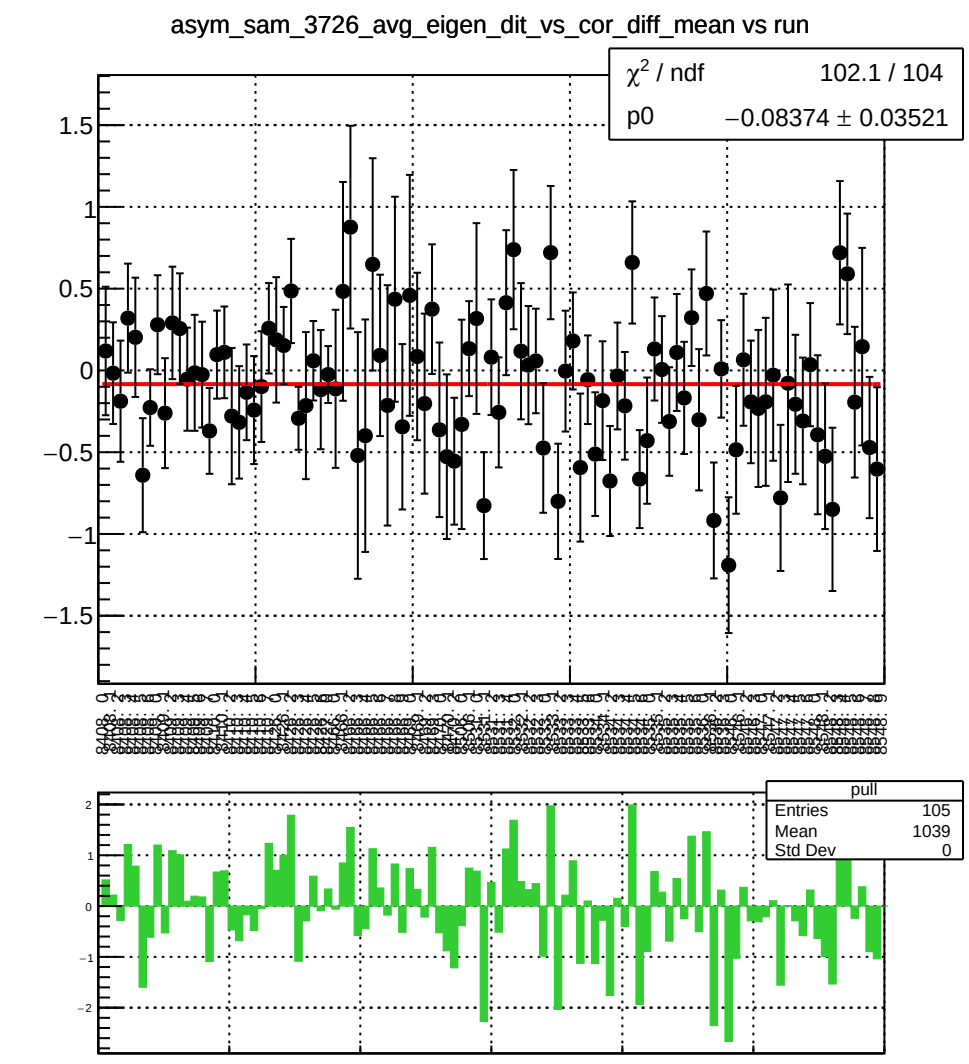

asym_sam_3726_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.1 / 104
p0 −0.08374 ± 0.03521
pull
Entries 105
Mean 1039
Std Dev 0
pull1D
Entries 105
Mean −0.005846
Std Dev 0.9861

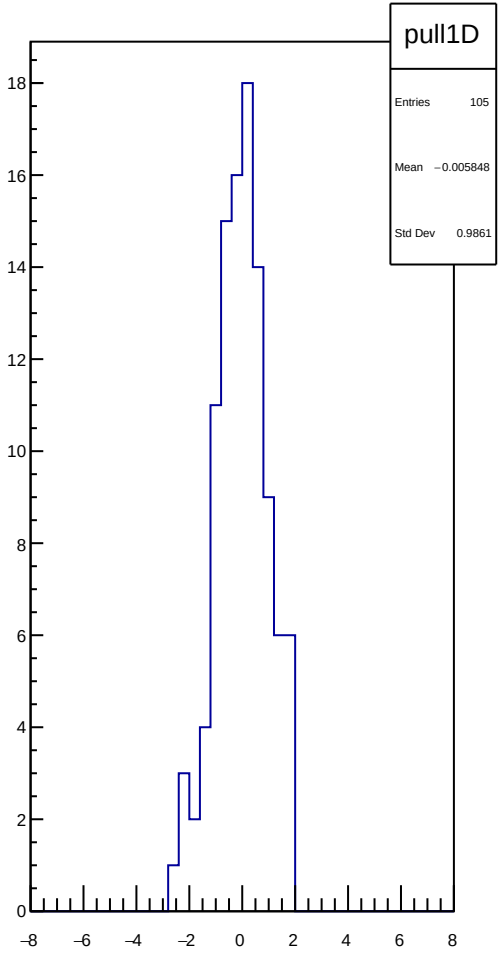

asym_sam_3726_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.395e+05 / 104
p0 34.38 ± 0.0249
70
60
50
40
30
20

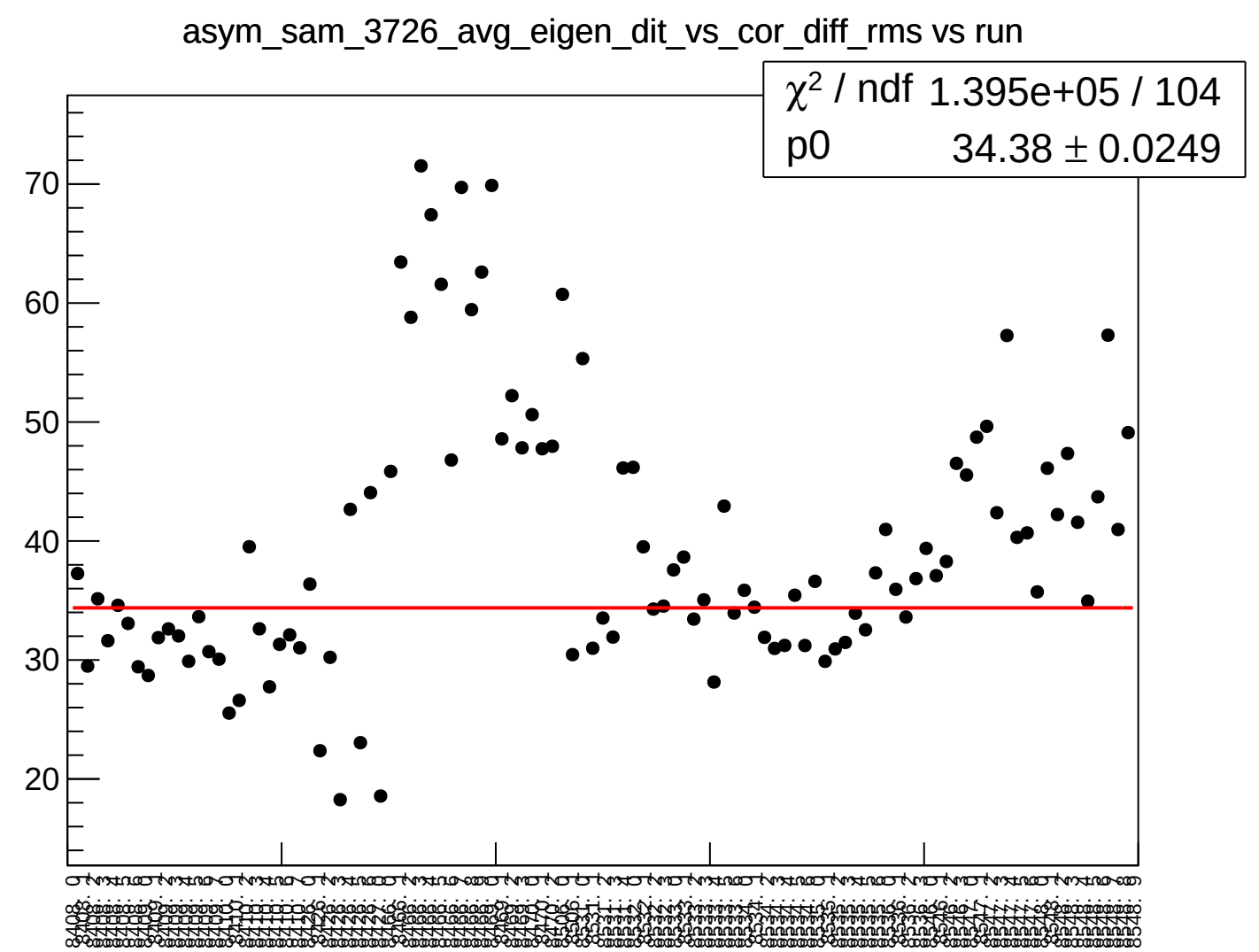

asym_sam_3726_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 99.01 / 104
p0 1.997e−06 ± 1.602e−06
pull
Entries 105
Mean −335
Std Dev 0

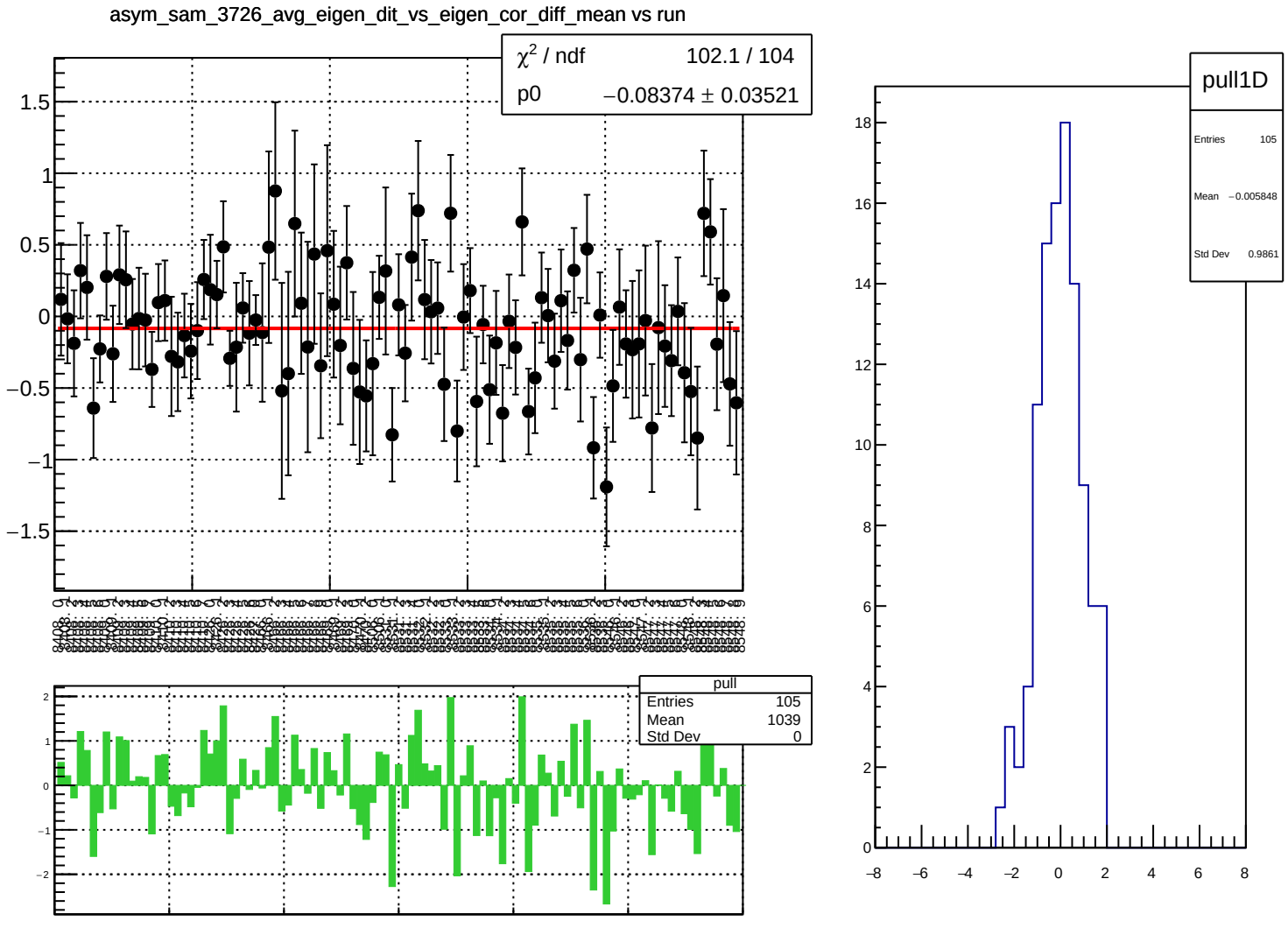

pull1D
Entries 105
Mean 0.003503
Std Dev 0.9711

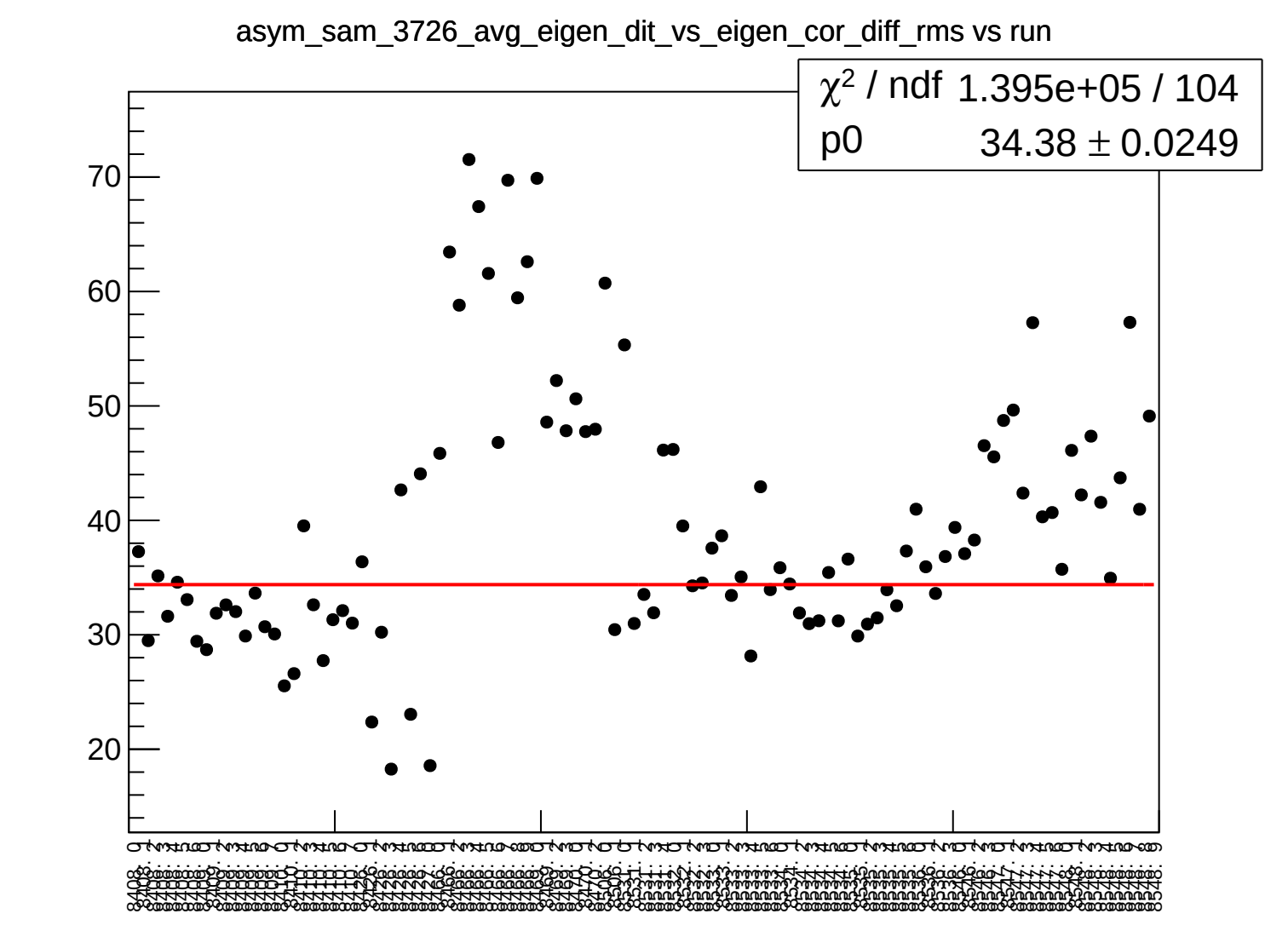

asym_sam_3726_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.936e+05 / 104
p0 0.001499 ± 1.132e−06
0.003
0.0025
0.002
0.0015
0.001

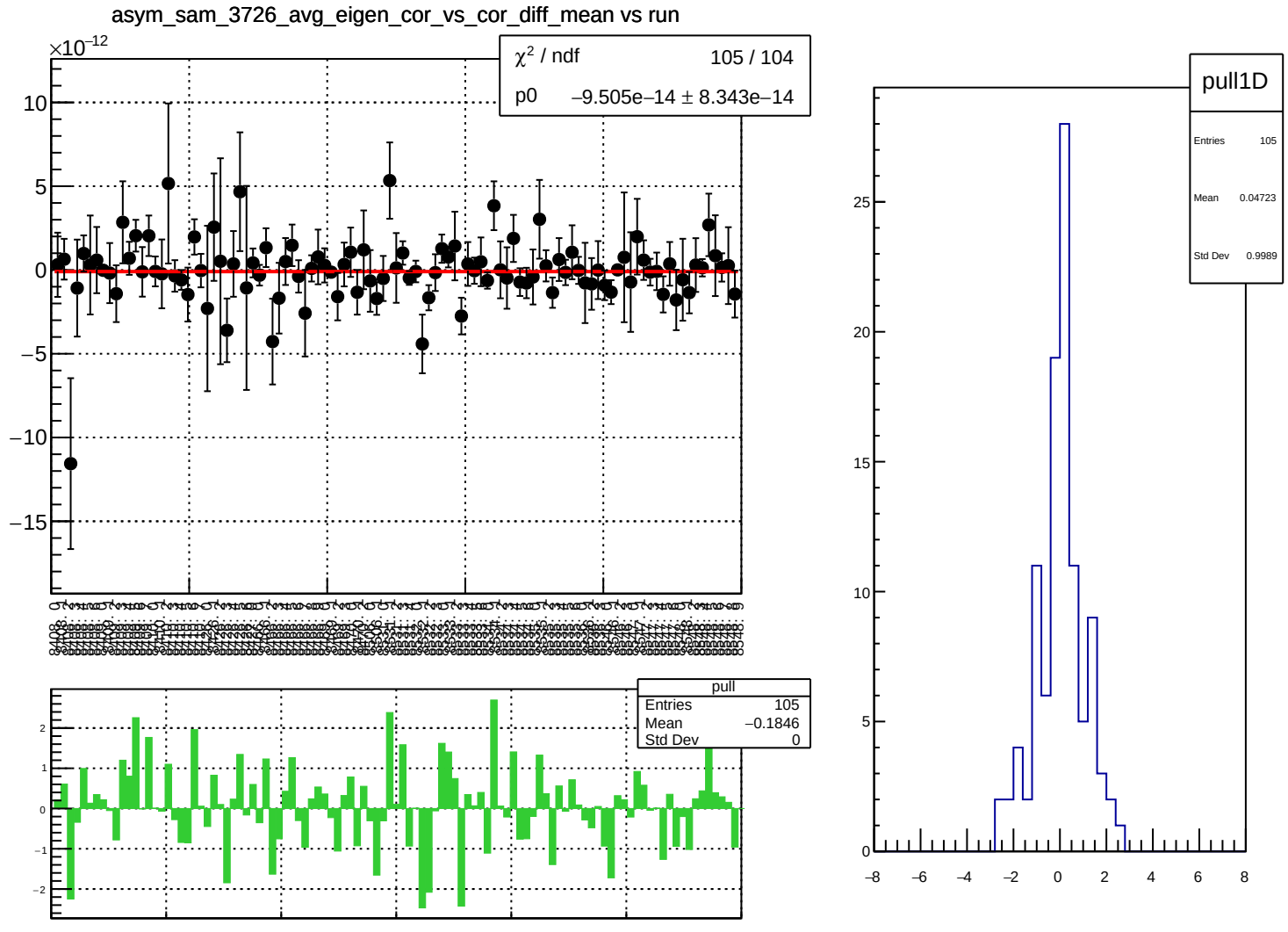

asym_sam_3726_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 102.1 / 104
p0 −0.08374 ± 0.03521
pull
Entries 105
Mean 1039
Std Dev 0

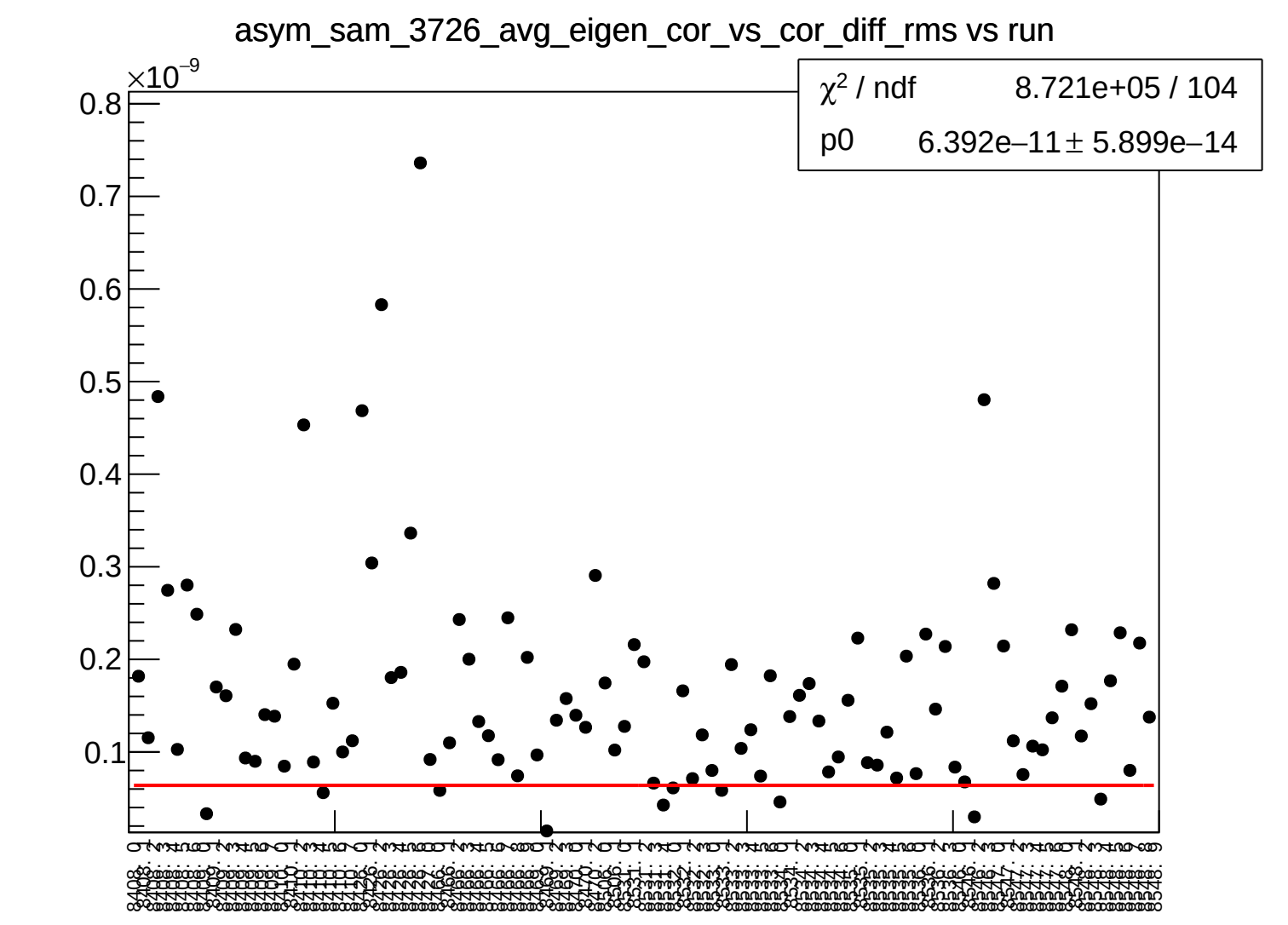

pull1D
Entries 105
Mean −0.005848
Std Dev 0.9861

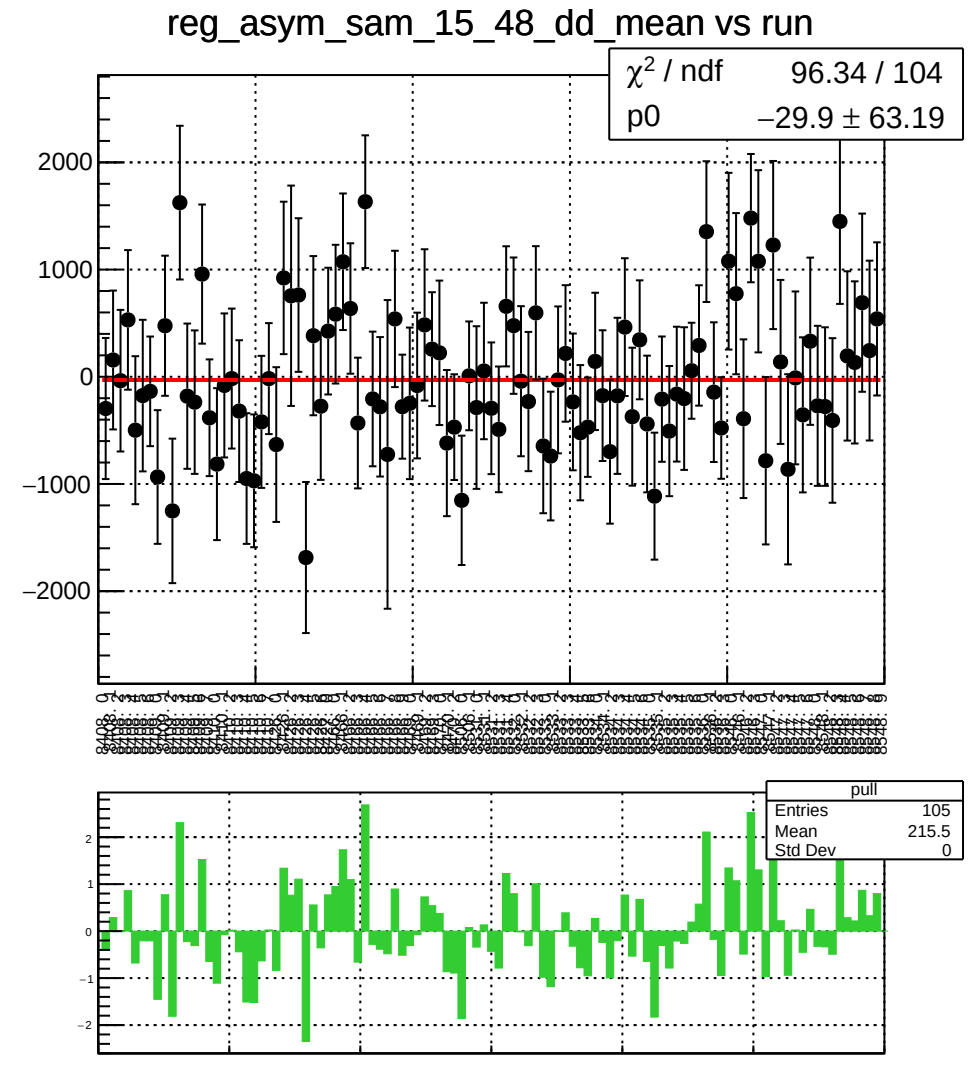

asym_sam_3726_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.395e+05 / 104
p0 34.38 ± 0.0249
70
60
50
40
30
20

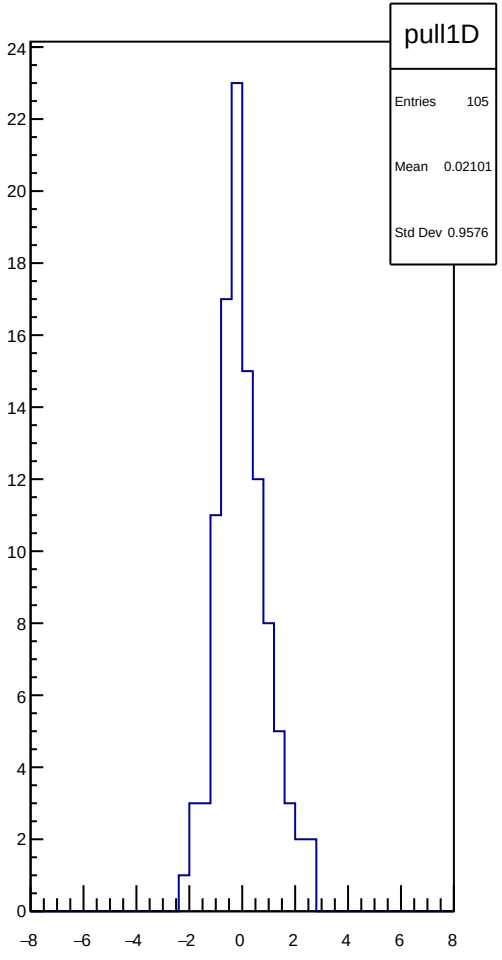

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 102.1 / 104
p0 −0.08374 ± 0.03521
pull
Entries 105
Mean 1039
Std Dev 0
pull1D
Entries 105
Mean −0.005848
Std Dev 0.9861

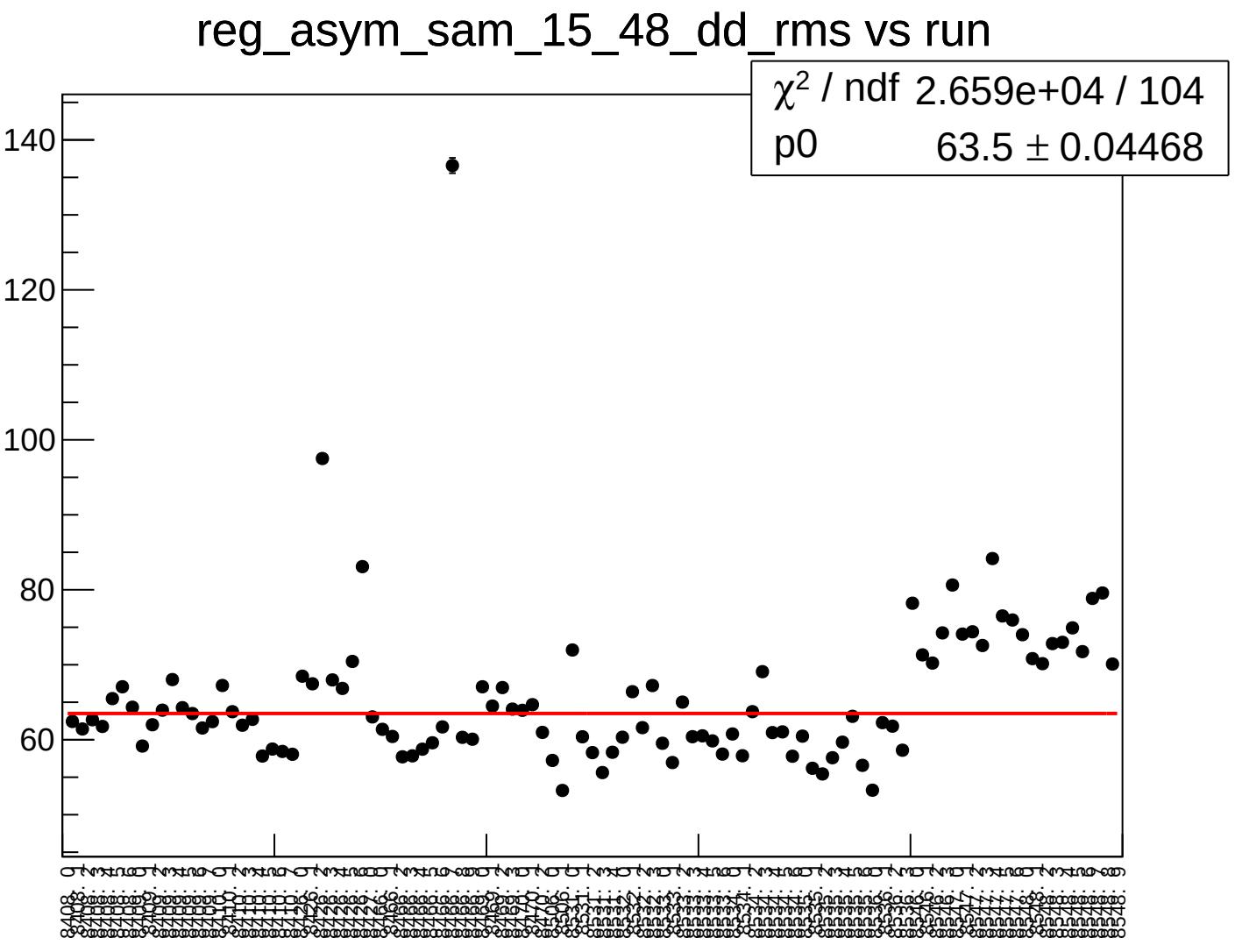

asym_sam_3726_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.395e+05 / 104
p0 34.38 ± 0.0249
70
60
50
40
30
20

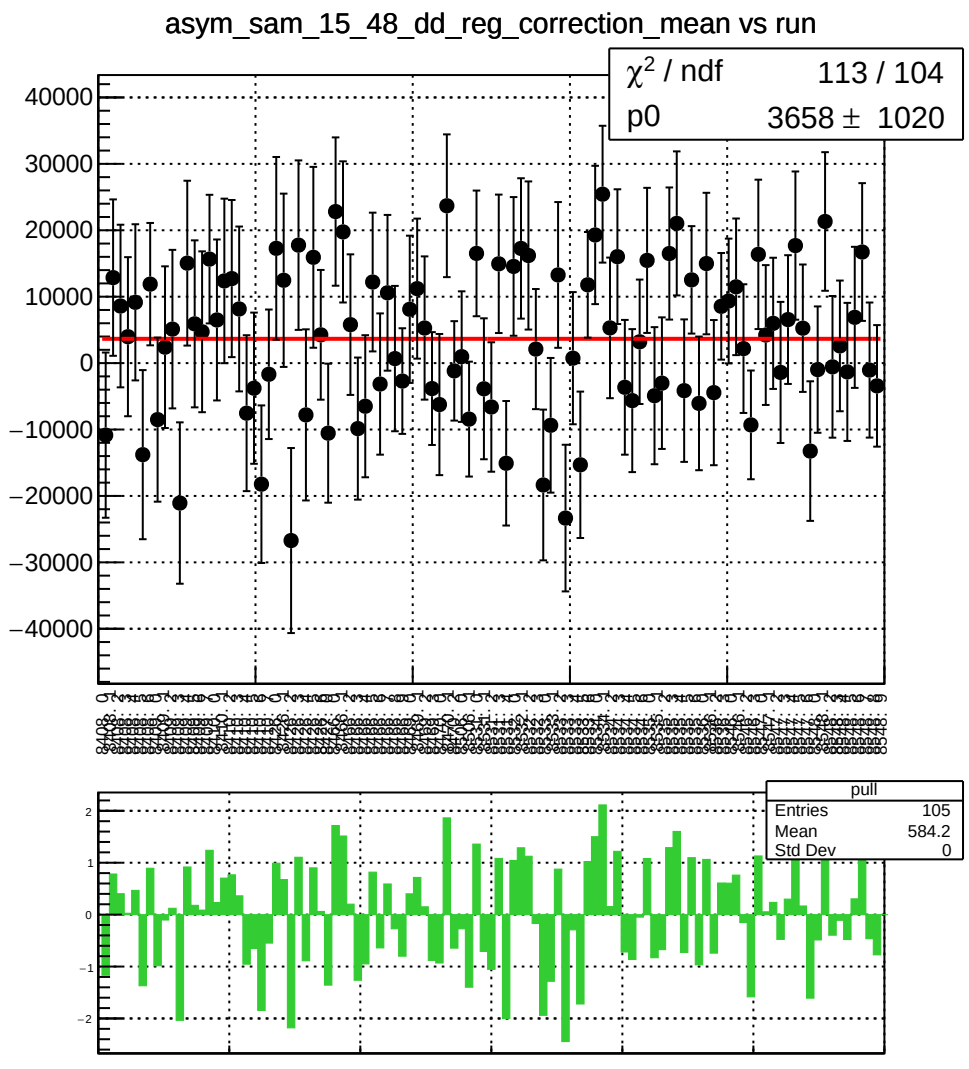

asym_sam_3726_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 105 / 104
p0 −9.505e−14 ± 8.343e−14
pull
Entries 105
Mean −0.1846
Std Dev 0
pull1D
Entries 105
Mean 0.04723
Std Dev 0.9989

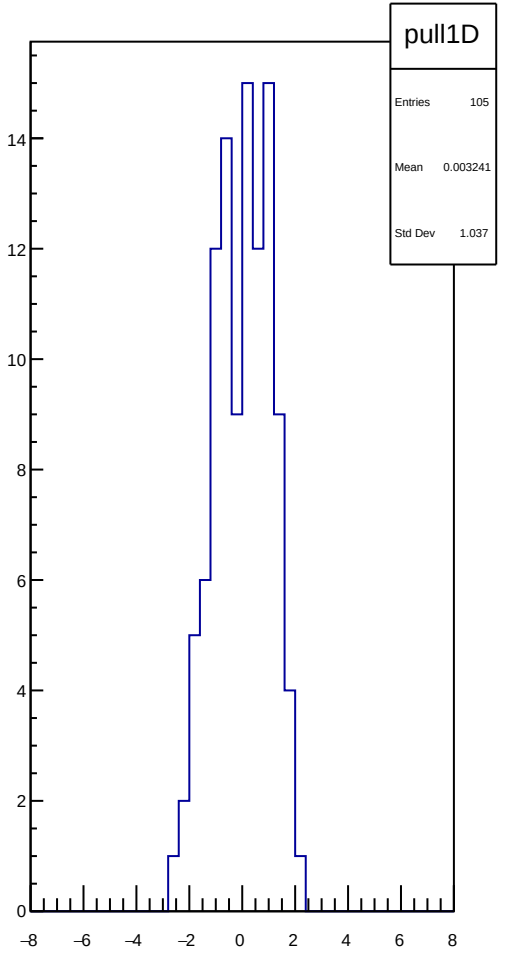

asym_sam_3726_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
χ² / ndf 8.721e+05 / 104
p0 6.392e−11 ± 5.899e−14

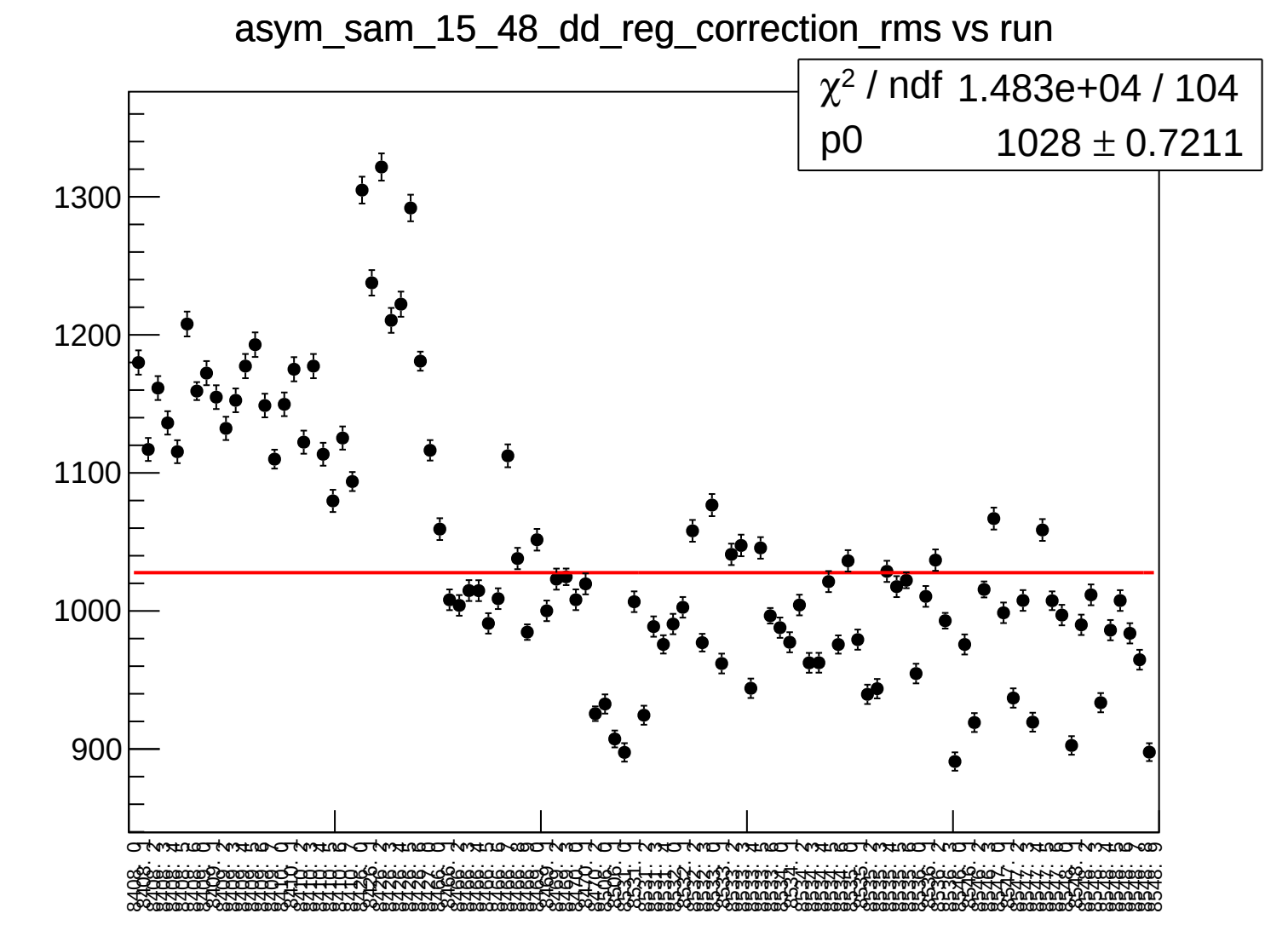

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 96.34 / 104
p0 −29.9 ± 63.19
2000
1000
0
−1000
−2000
pull
Entries 105
Mean 215.5
Std Dev 0
2
1
0
−1
−2

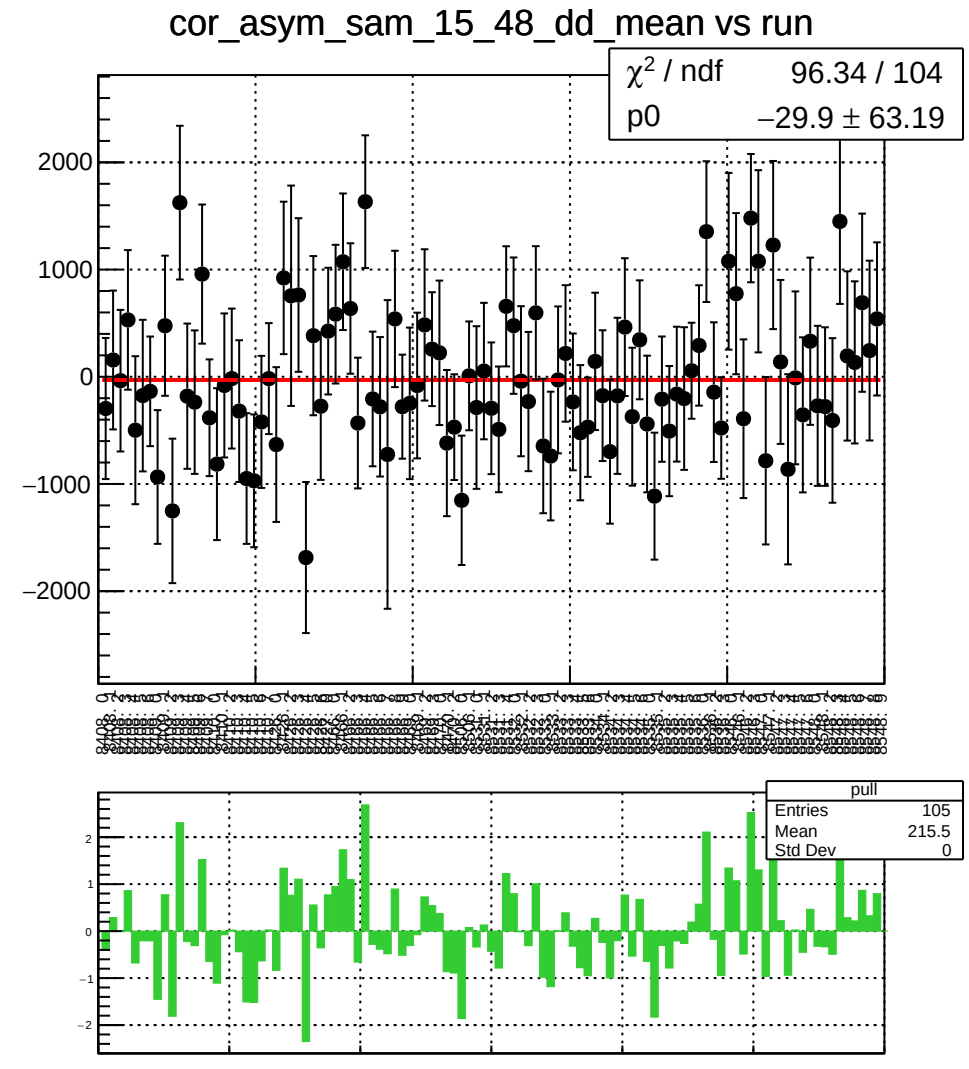

pull1D
Entries 105
Mean 0.02101
Std Dev 0.9576
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

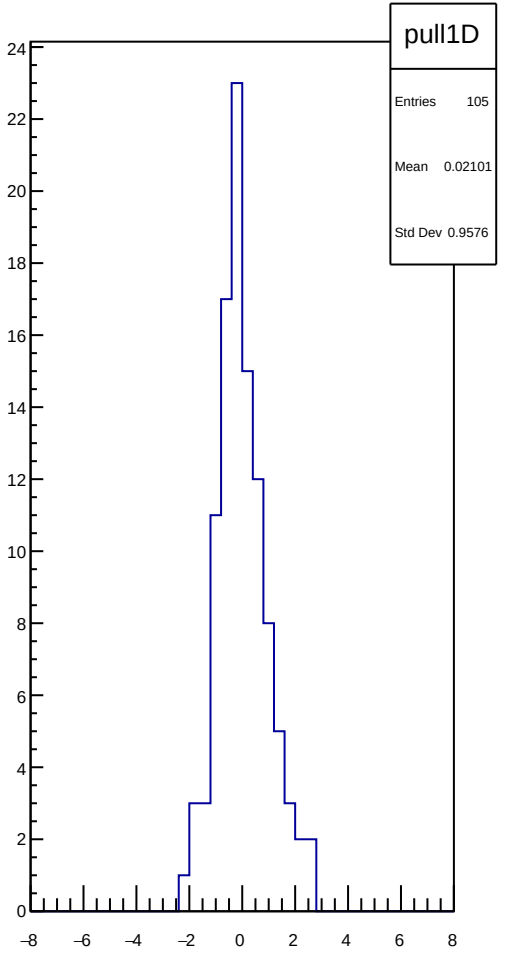

reg_asym_sam_15_48_dd_rms vs run
χ² / ndf 2.659e+04 / 104
p0 63.5 ± 0.04468
140
120
100
80
60

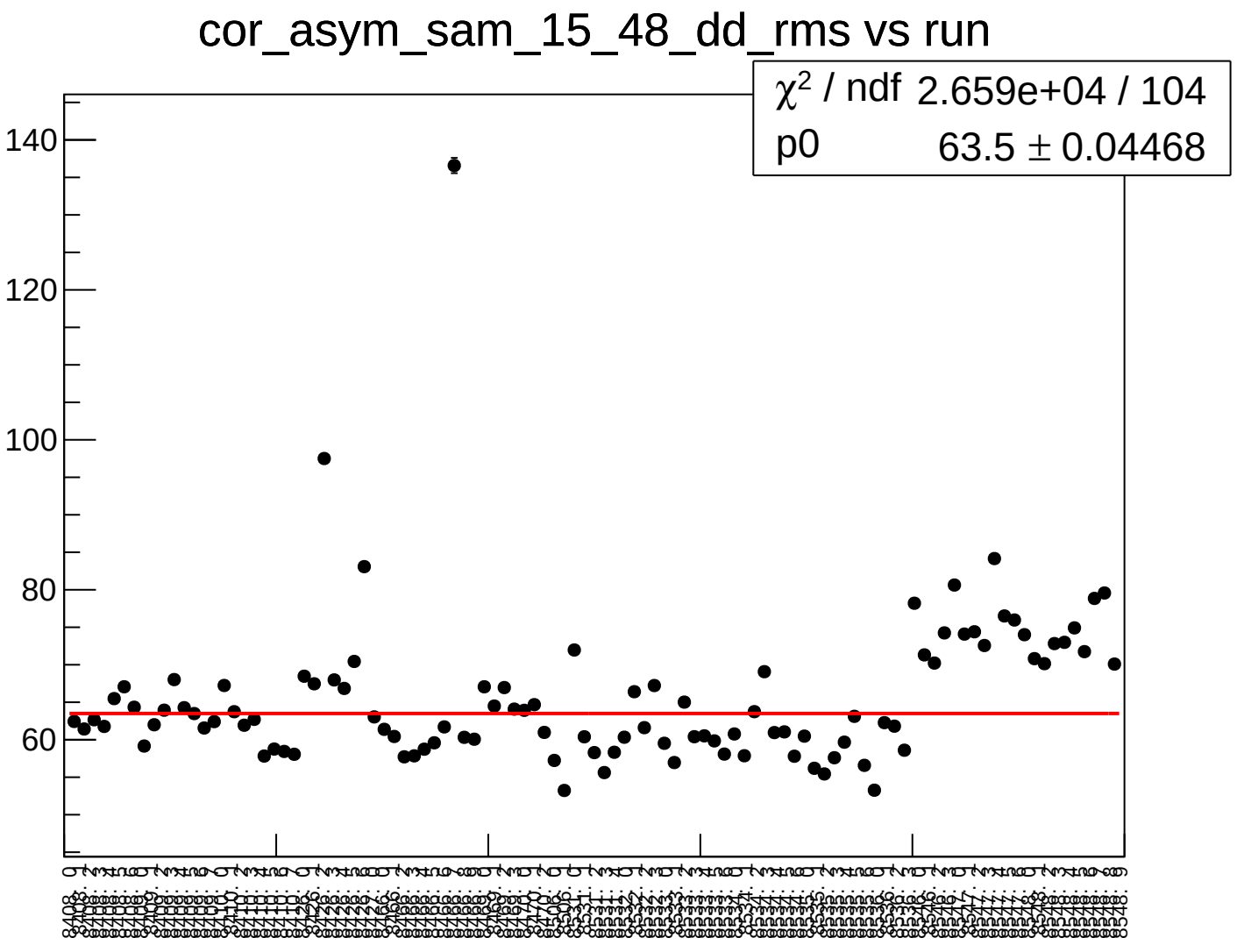

asym_sam_15_48_dd_reg_correction_mean vs run
χ² / ndf 113 / 104
p0 3658 ± 1020
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 105
Mean 584.2
Std Dev 0
2
1
0
−1
−2

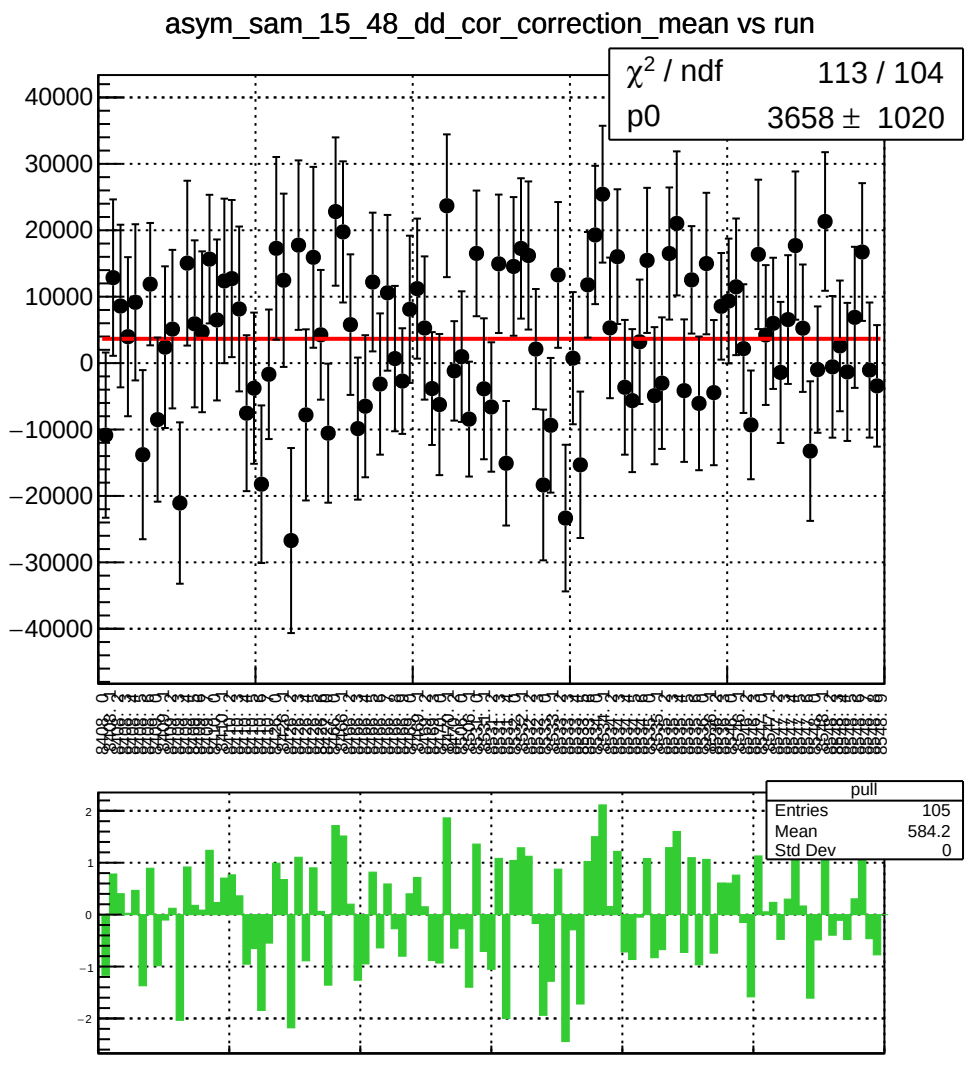

pull1D
Entries 105
Mean 0.003241
Std Dev 1.037
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

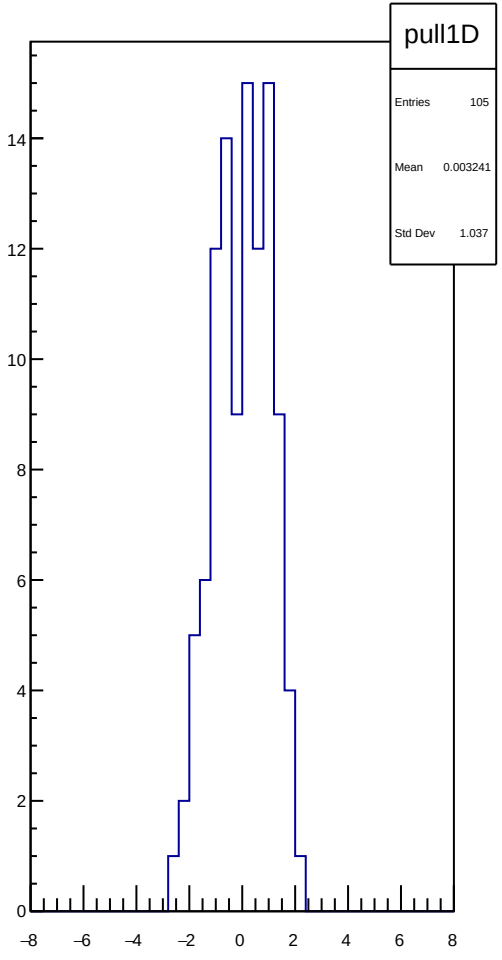

asym_sam_15_48_dd_reg_correction_rms vs run
χ² / ndf 1.483e+04 / 104
p0 1028 ± 0.7211
1300
1200
1100
1000
900

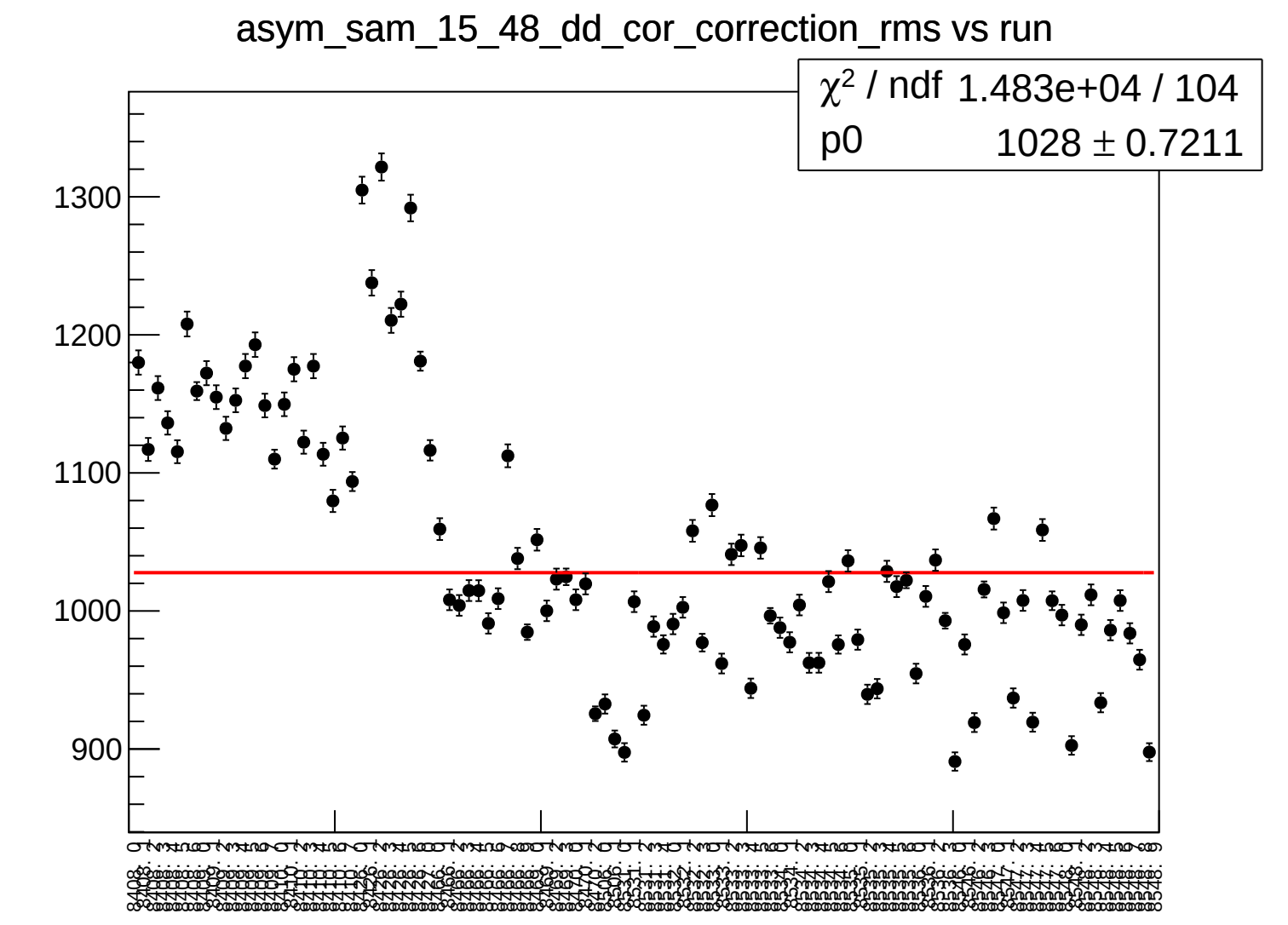

cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 96.34 / 104
p0 −29.9 ± 63.19
2000
1000
0
−1000
−2000
pull
Entries 105
Mean 215.5
Std Dev 0
2
1
0
−1
−2

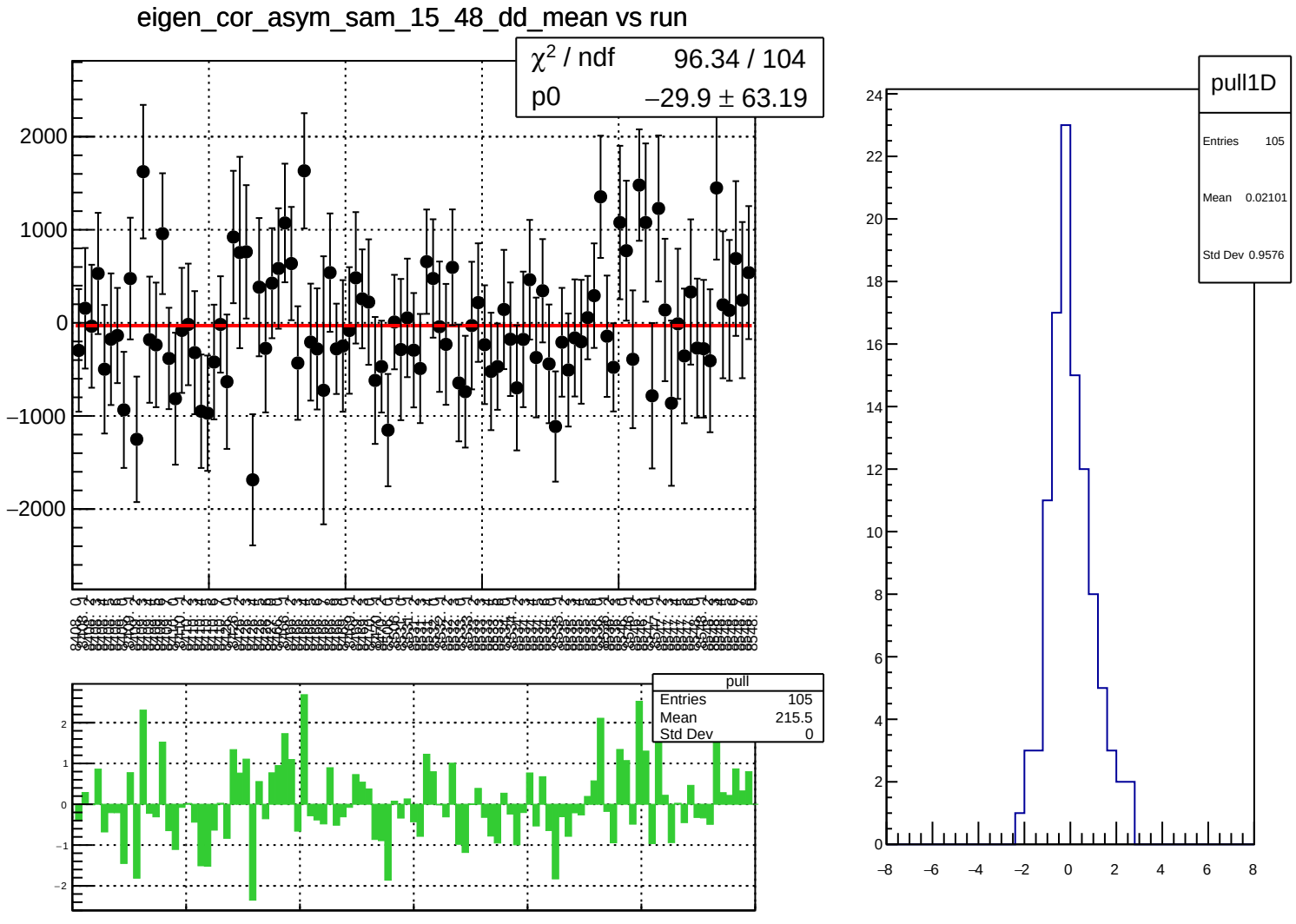

pull1D
Entries 105
Mean 0.02101
Std Dev 0.9576
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

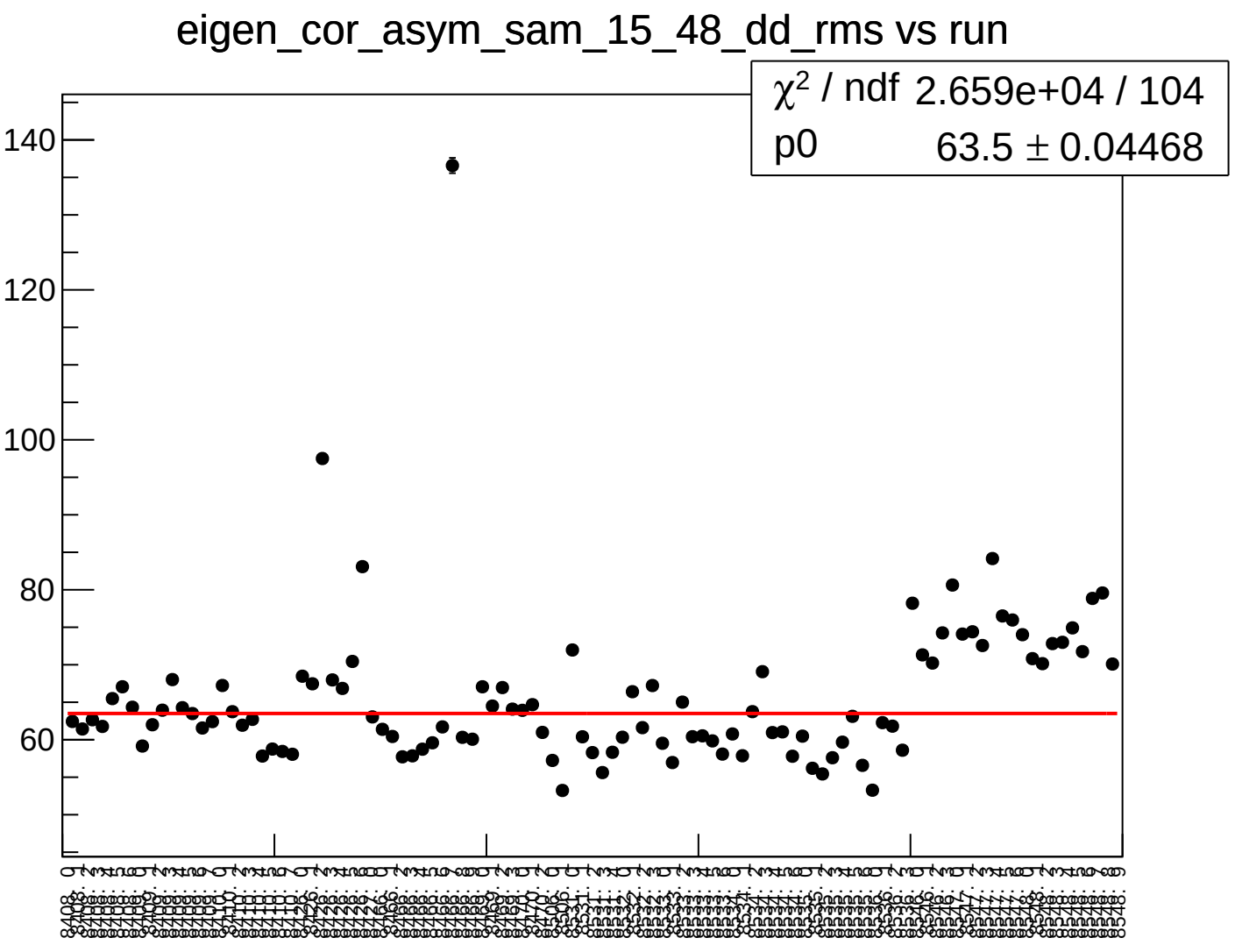

cor_asym_sam_15_48_dd_rms vs run
χ² / ndf 2.659e+04 / 104
p0 63.5 ± 0.04468
140
120
100
80
60

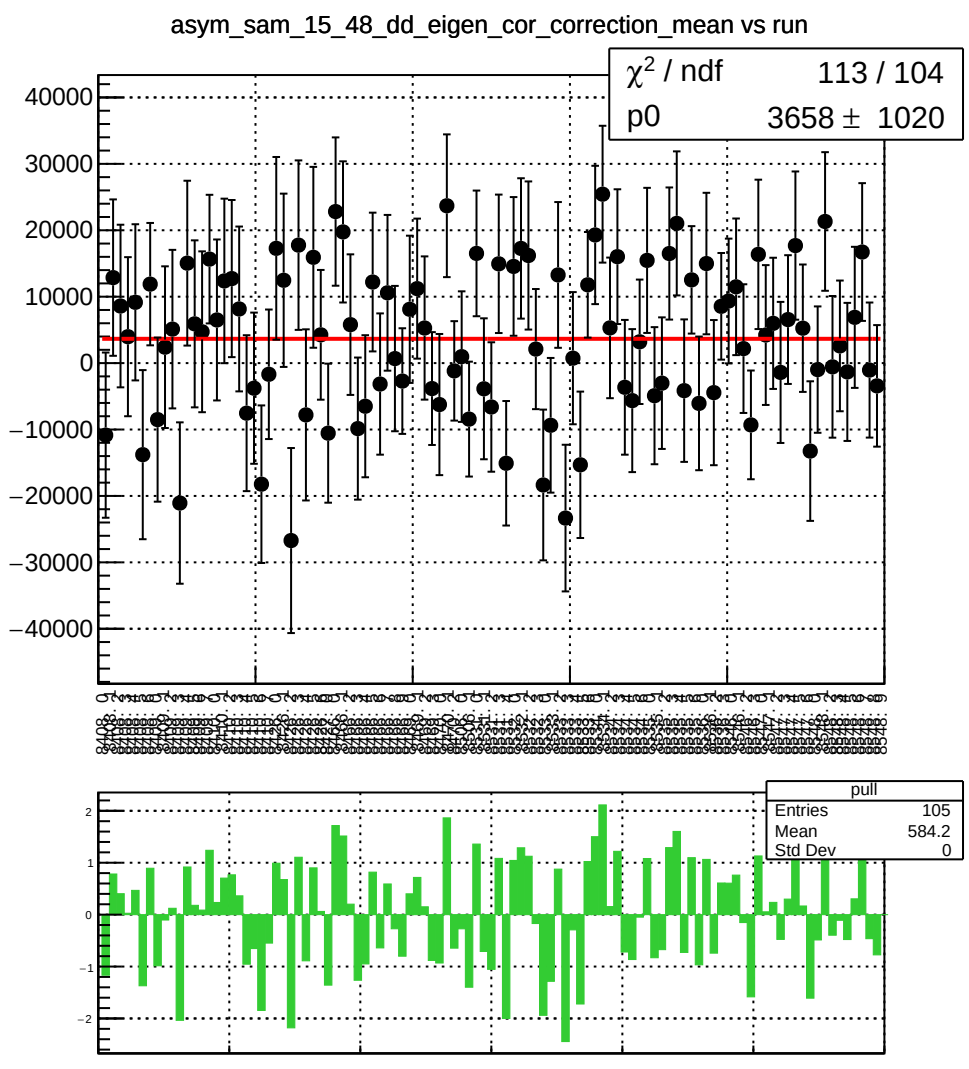

asym_sam_15_48_dd_cor_correction_mean vs run
χ² / ndf 113 / 104
p0 3658 ± 1020
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 105
Mean 584.2
Std Dev 0
2
1
0
−1
−2

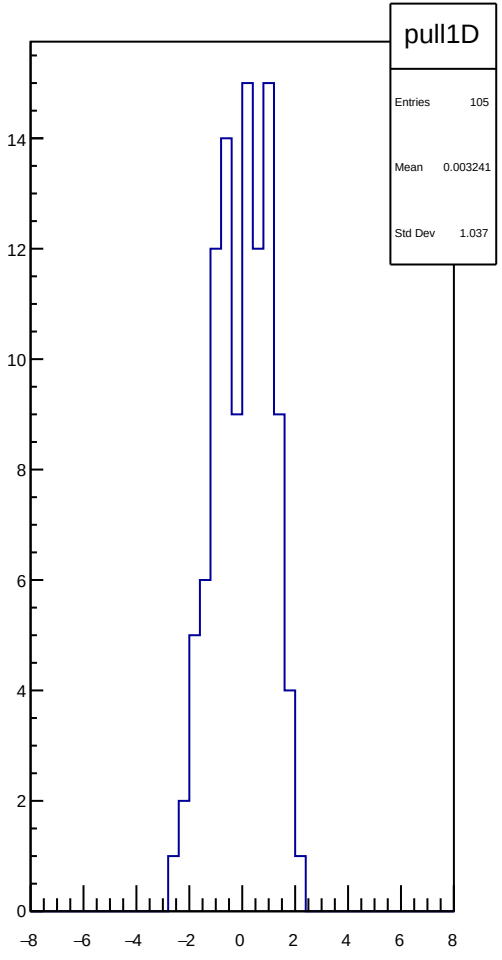

pull1D
Entries 105
Mean 0.003241
Std Dev 1.037
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

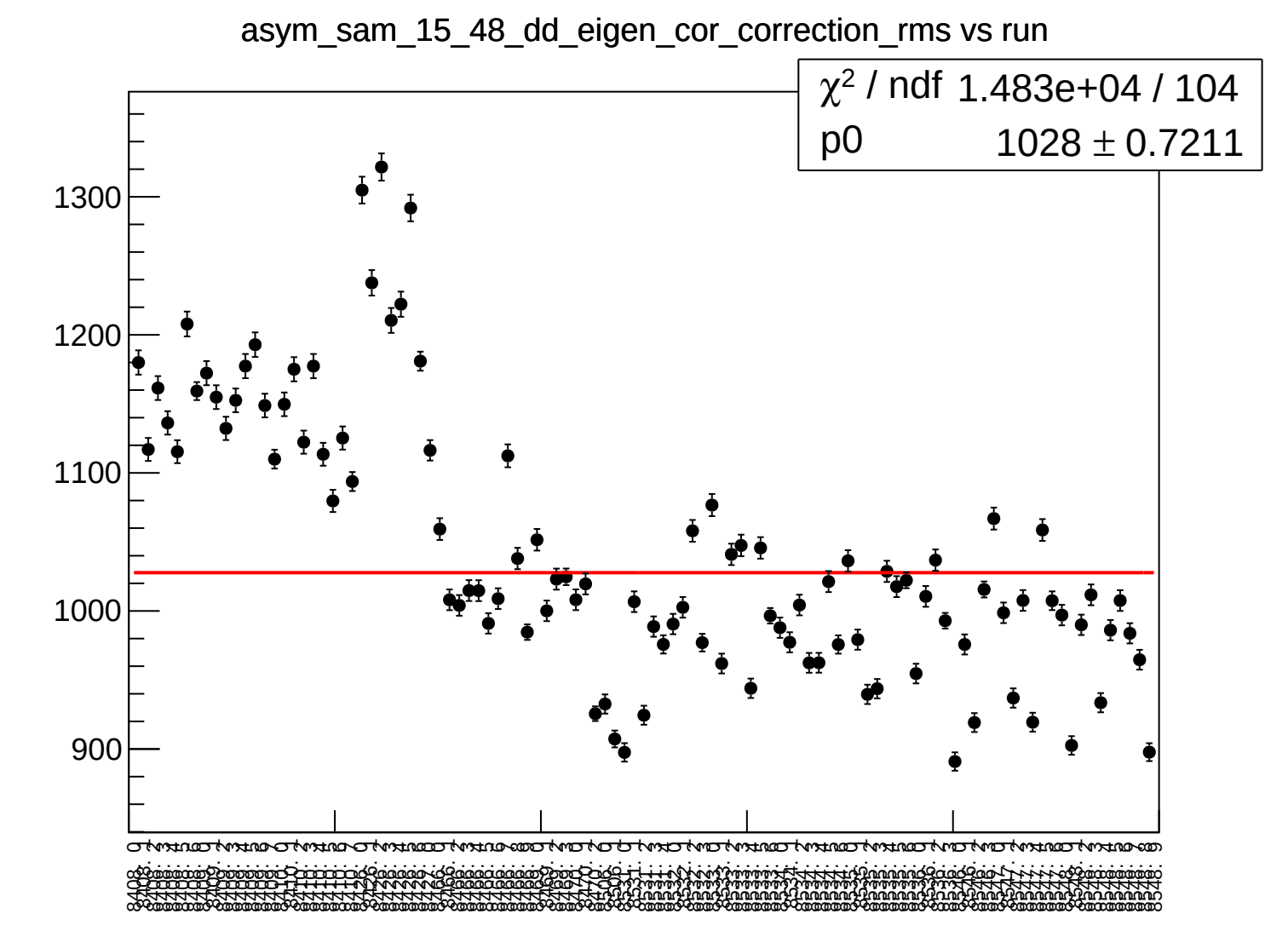

asym_sam_15_48_dd_cor_correction_rms vs run
χ² / ndf 1.483e+04 / 104
p0 1028 ± 0.7211
1300
1200
1100
1000
900

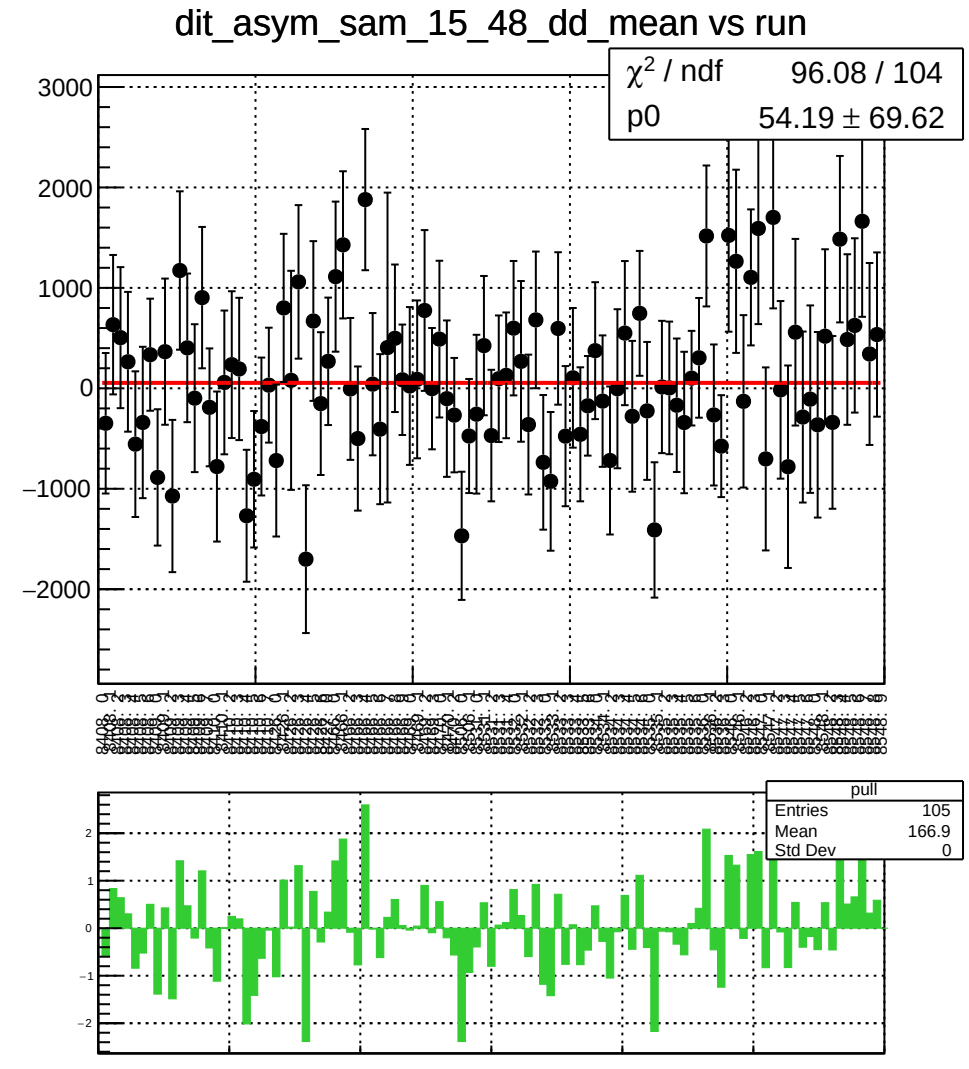

eigen_cor_asym_sam_15_48_dd_mean vs run
χ² / ndf 96.34 / 104
p0 −29.9 ± 63.19
2000
1000
0
−1000
−2000
pull
Entries 105
Mean 215.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.02101
Std Dev 0.9576
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

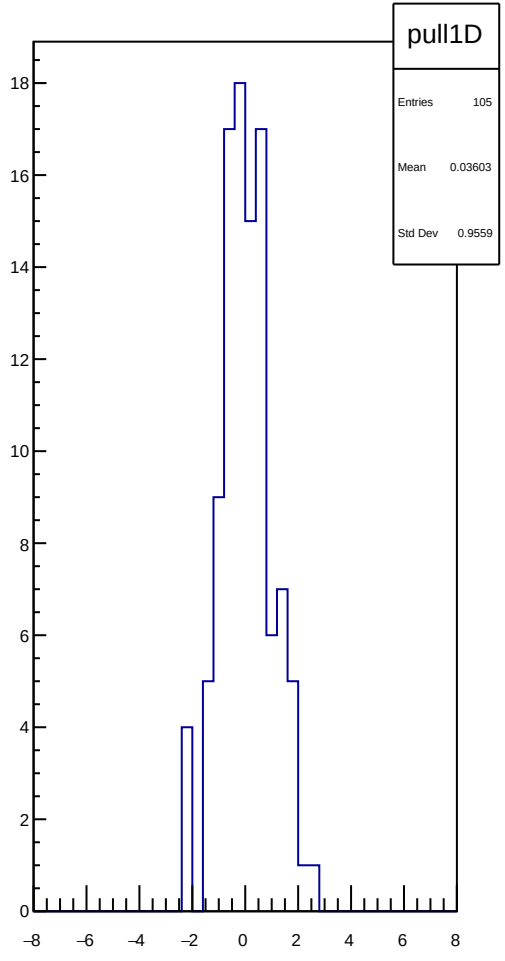

eigen_cor_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 2.659e+04 / 104
p0 63.5 ± 0.04468
140
120
100
80
60

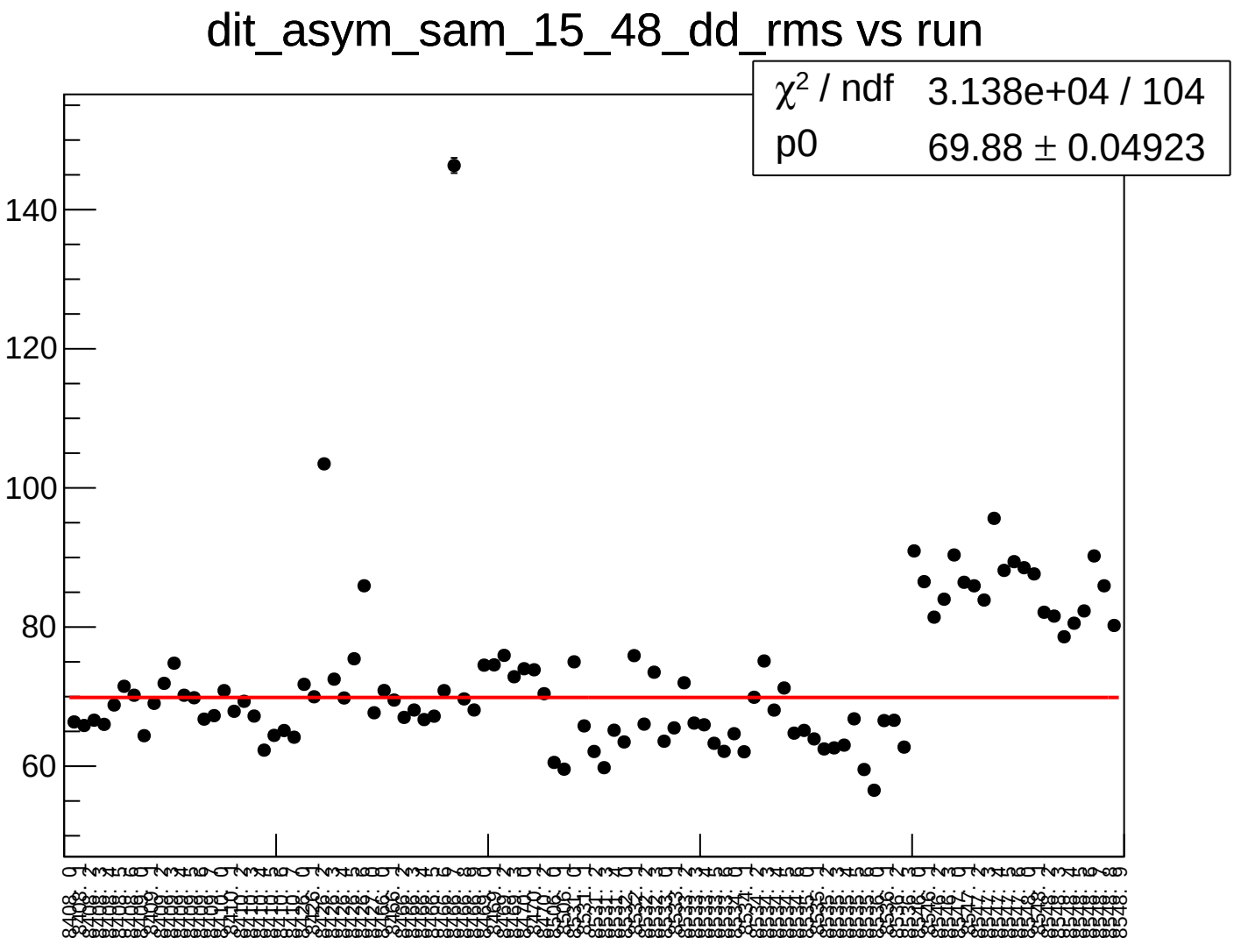

asym_sam_15_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 113 / 104
p0 3658 ± 1020
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 105
Mean 584.2
Std Dev 0
2
1
0
−1
−2

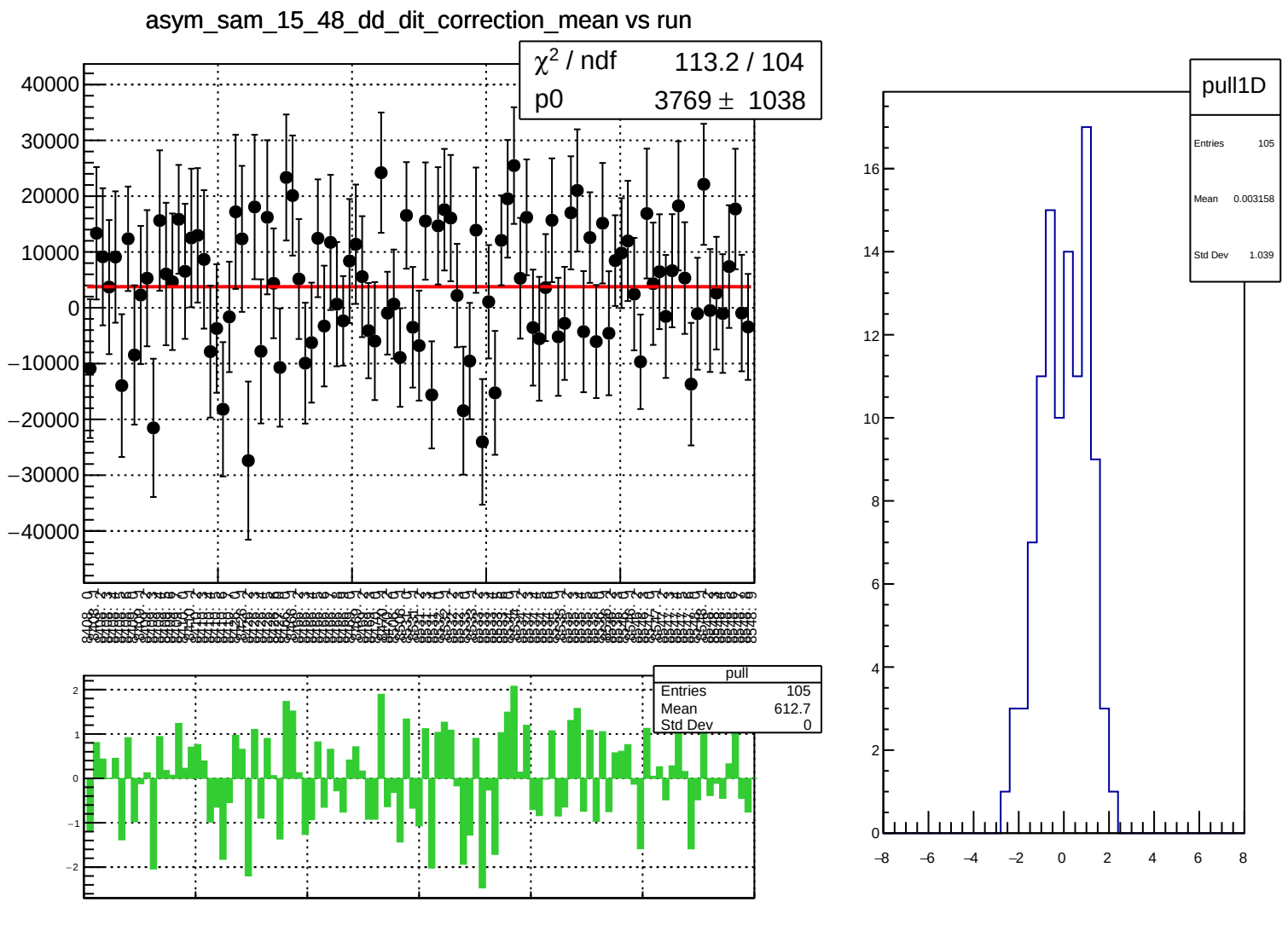

pull1D
Entries 105
Mean 0.003241
Std Dev 1.037
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

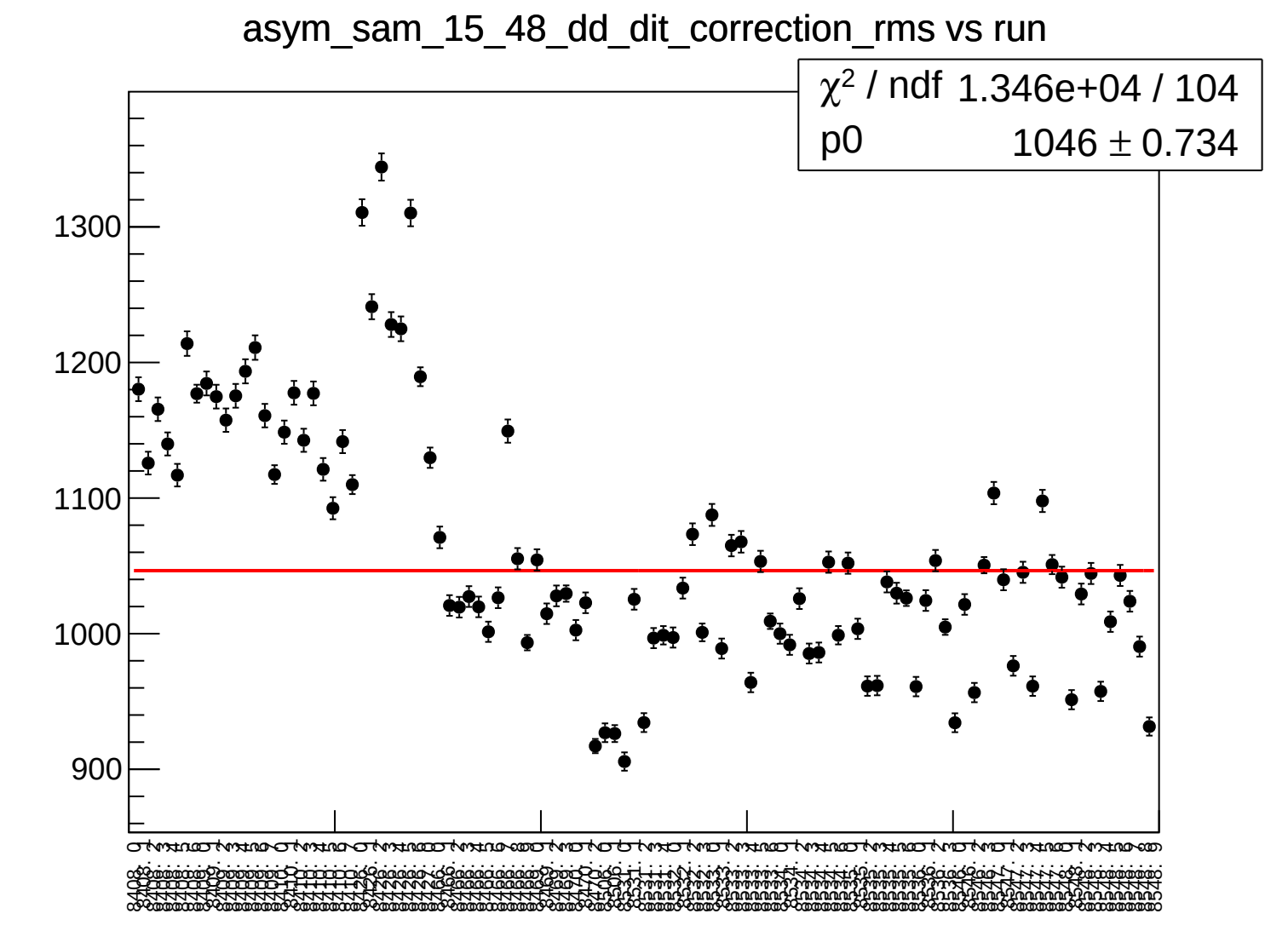

asym_sam_15_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.483e+04 / 104
p0 1028 ± 0.7211
1300
1200
1100
1000
900

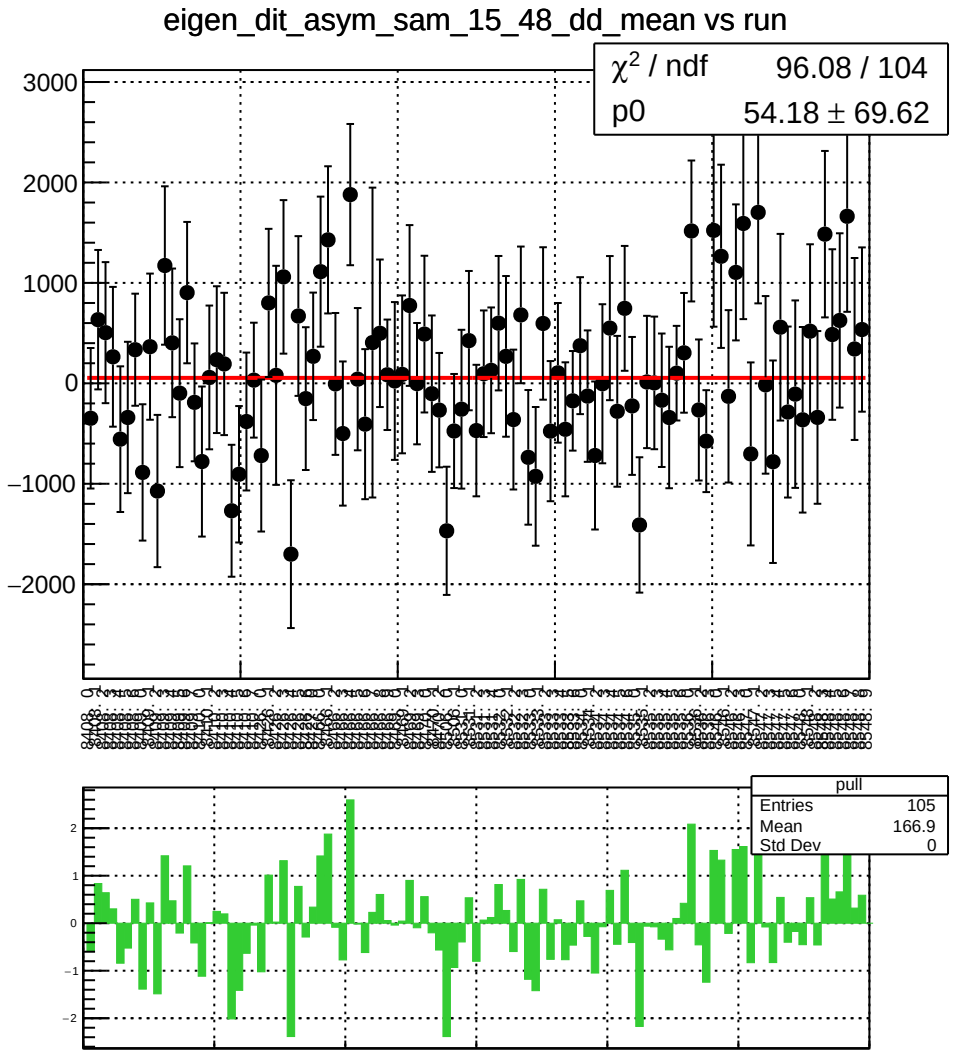

dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 96.08 / 104
p0 54.19 ± 69.62
3000
2000
1000
0
−1000
−2000
pull
Entries 105
Mean 166.9
Std Dev 0
2
1
0
−1
−2

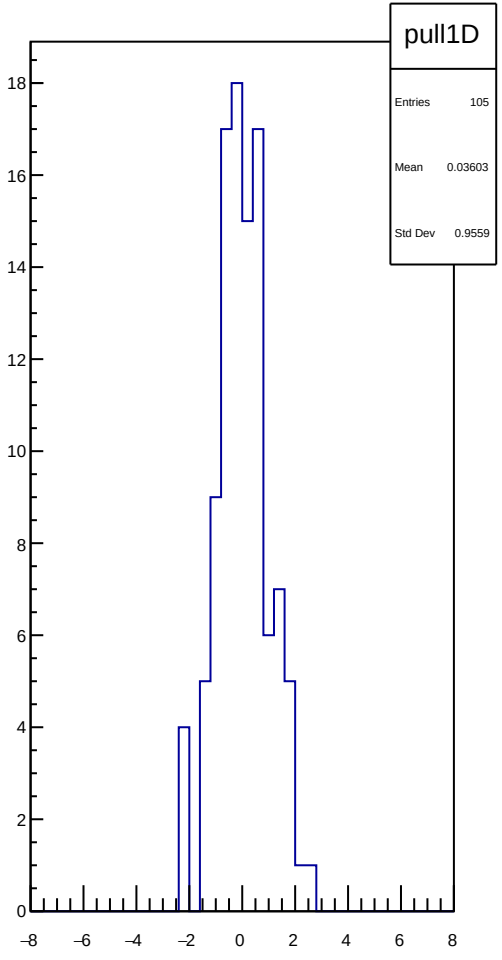

pull1D
Entries 105
Mean 0.03603
Std Dev 0.9559
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

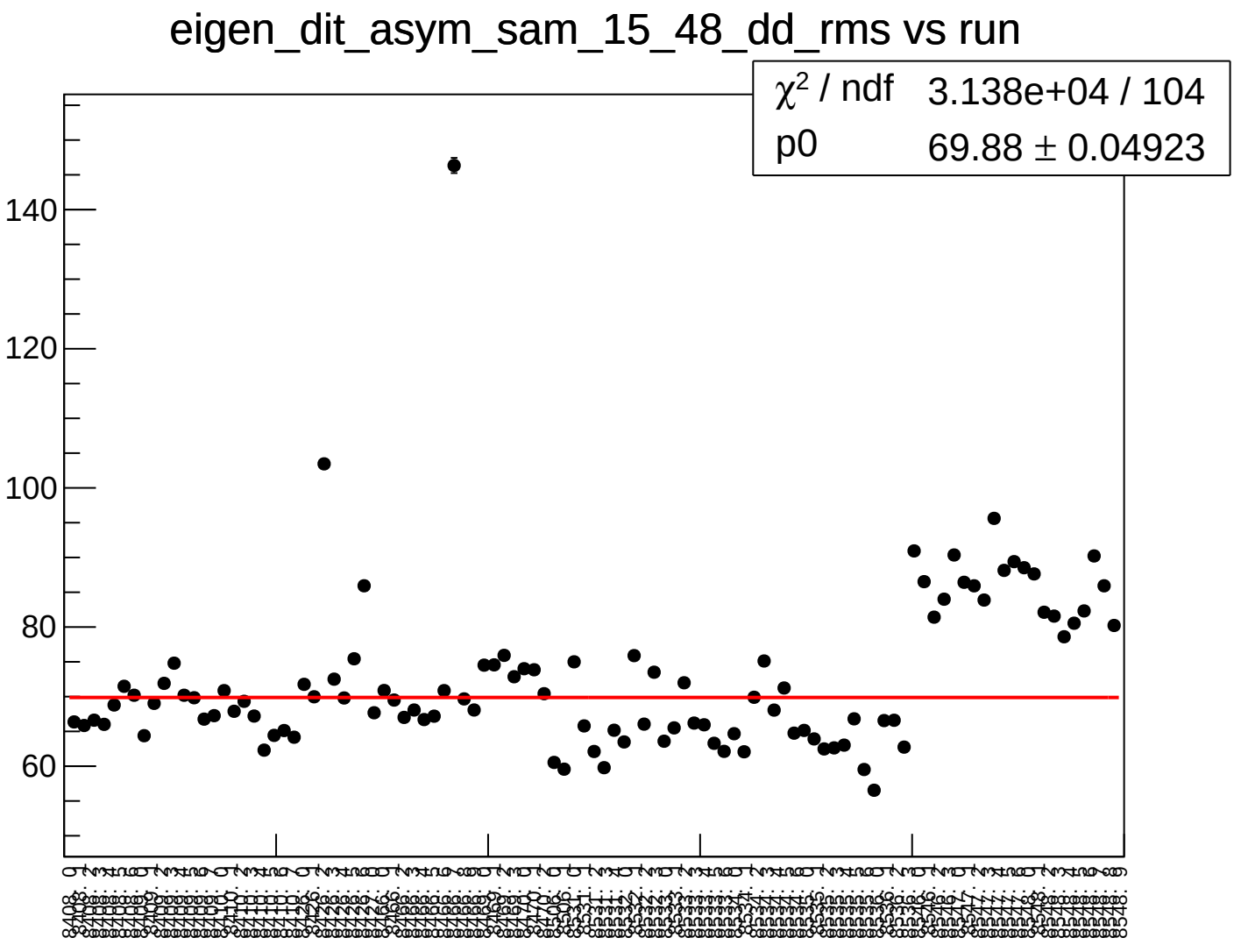

dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 3.138e+04 / 104
p0 69.88 ± 0.04923
140
120
100
80
60

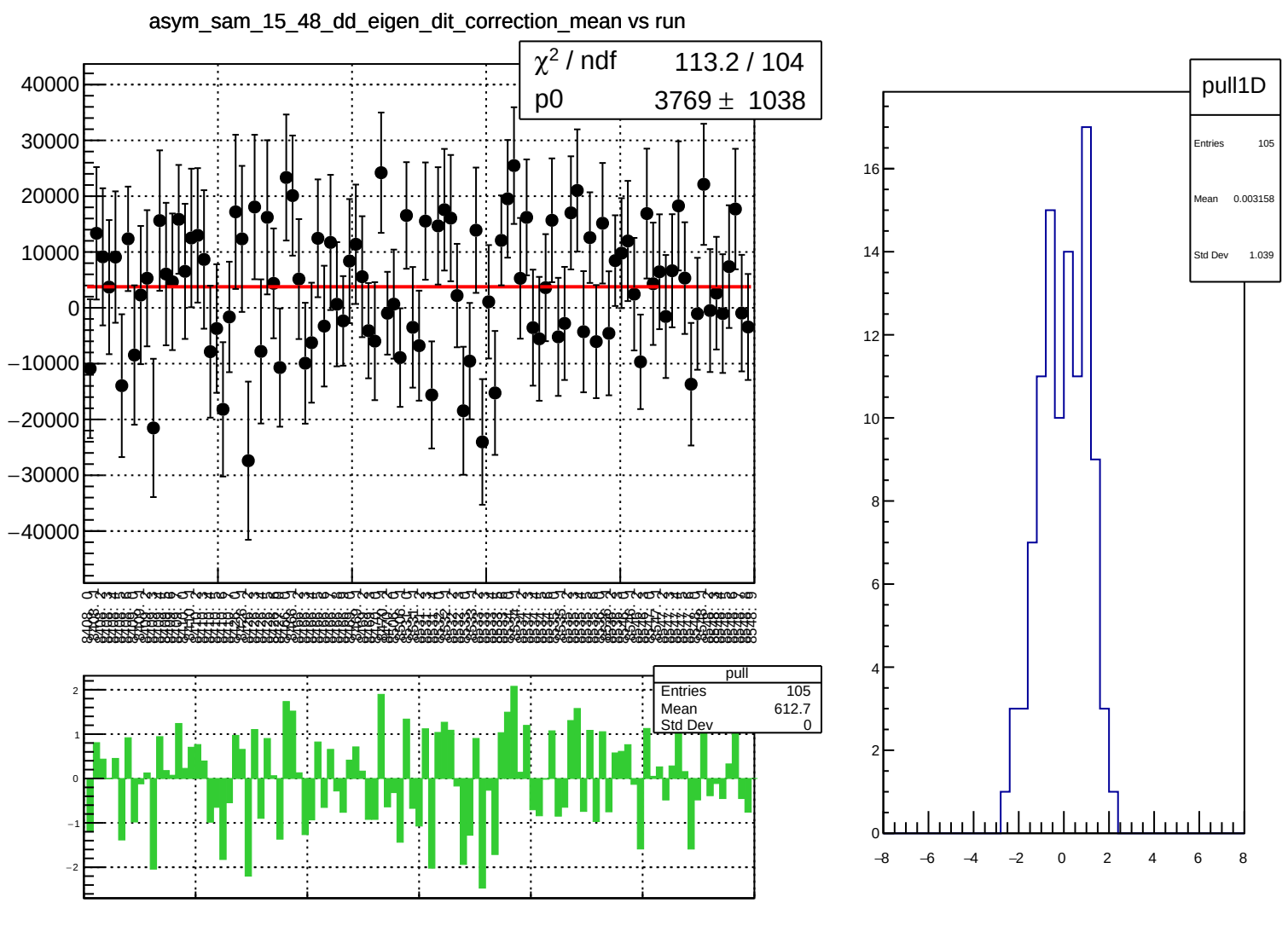

asym_sam_15_48_dd_dit_correction_mean vs run
χ² / ndf 113.2 / 104
p0 3769 ± 1038
pull
Entries 105
Mean 612.7
Std Dev 0
pull1D
Entries 105
Mean 0.003158
Std Dev 1.039

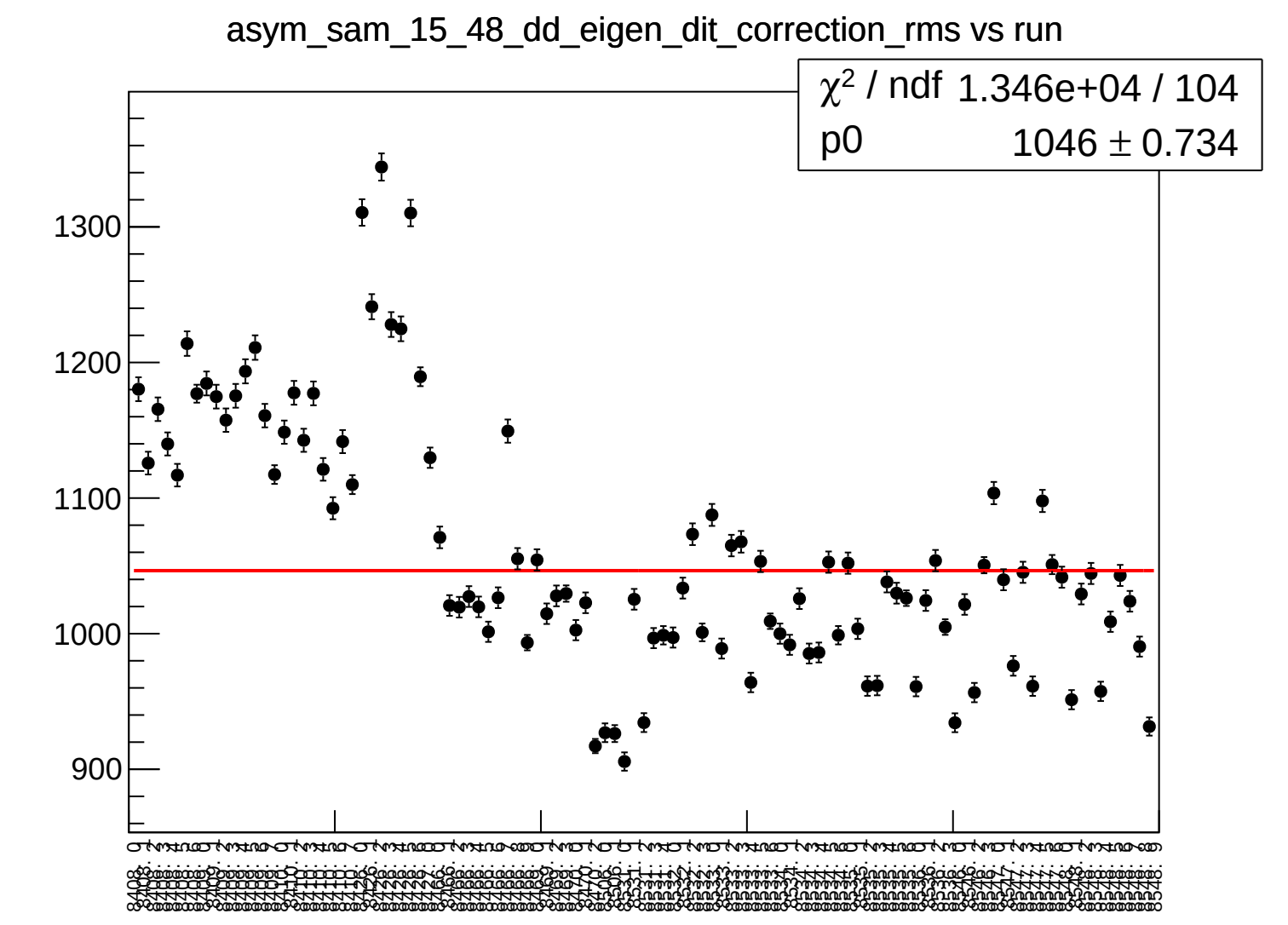

asym_sam_15_48_dd_dit_correction_rms vs run
χ² / ndf 1.346e+04 / 104
p0 1046 ± 0.734
1300
1200
1100
1000
900

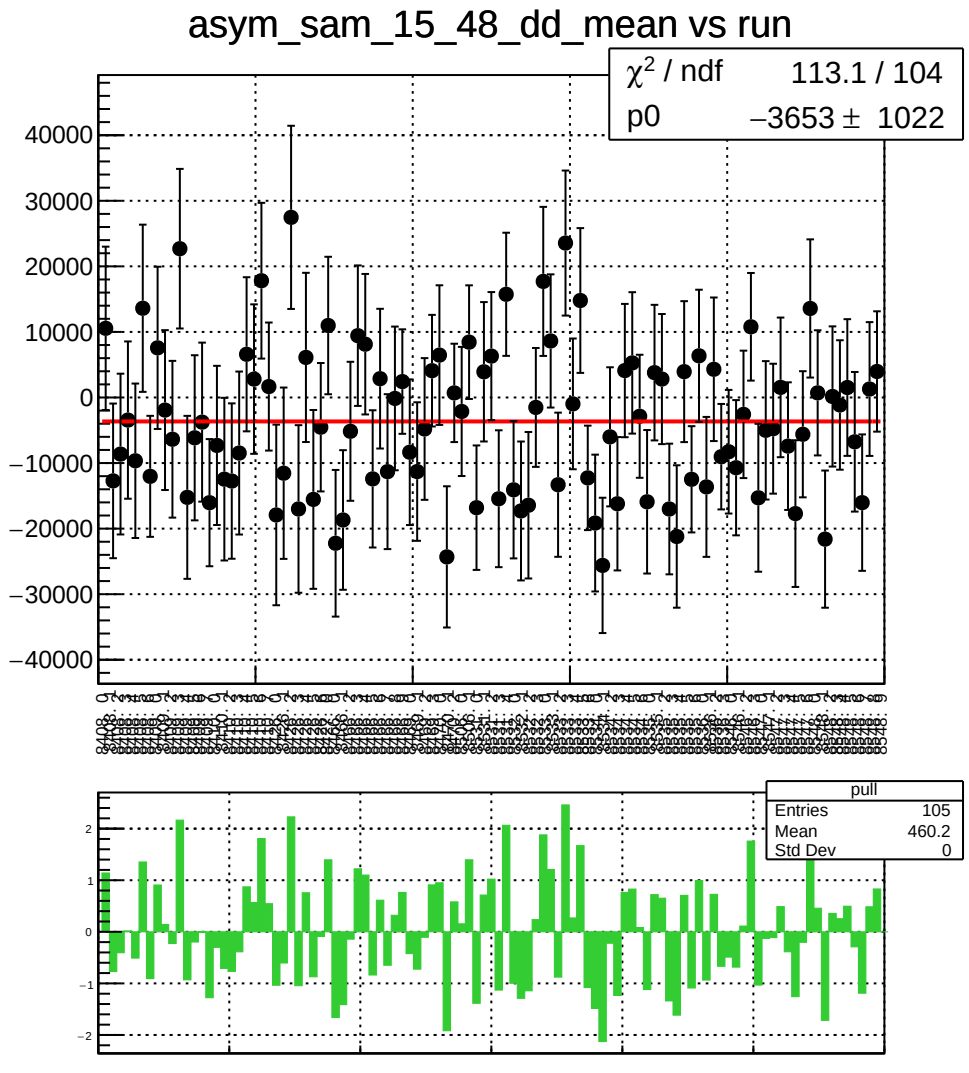

eigen_dit_asym_sam_15_48_dd_mean vs run
χ² / ndf 96.08 / 104
p0 54.18 ± 69.62
3000
2000
1000
0
−1000
−2000
pull
Entries 105
Mean 166.9
Std Dev 0
2
1
0
−1
−2

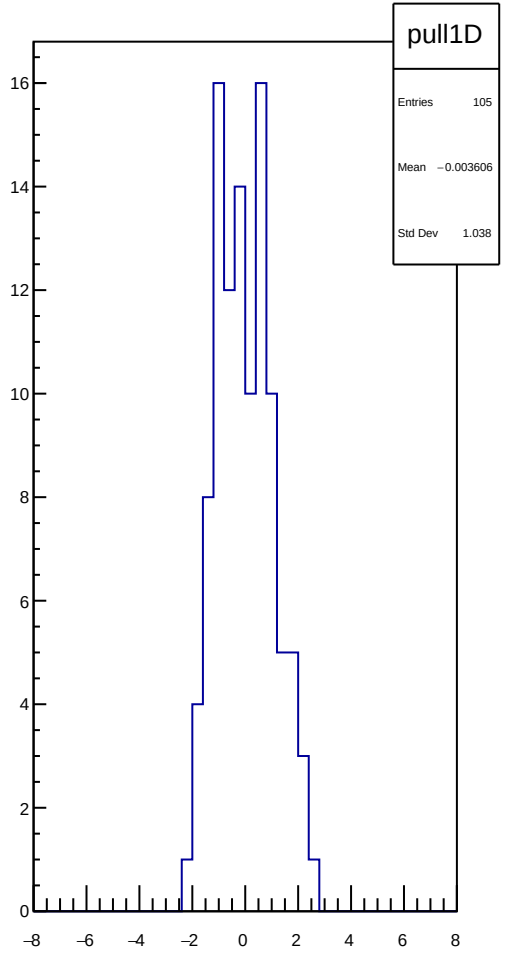

pull1D
Entries 105
Mean 0.03603
Std Dev 0.9559
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

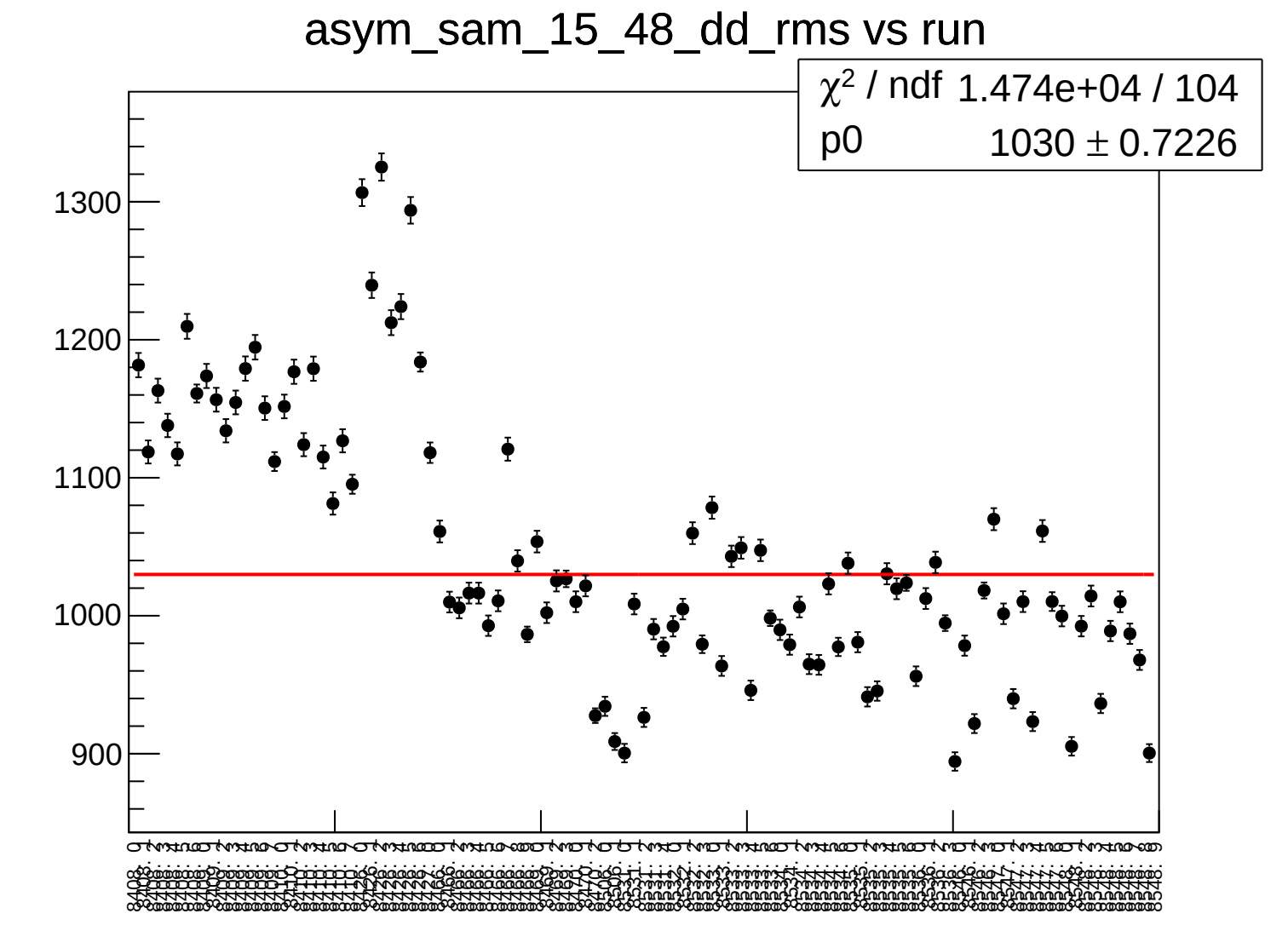

eigen_dit_asym_sam_15_48_dd_rms vs run
χ² / ndf 3.138e+04 / 104
p0 69.88 ± 0.04923
140
120
100
80
60

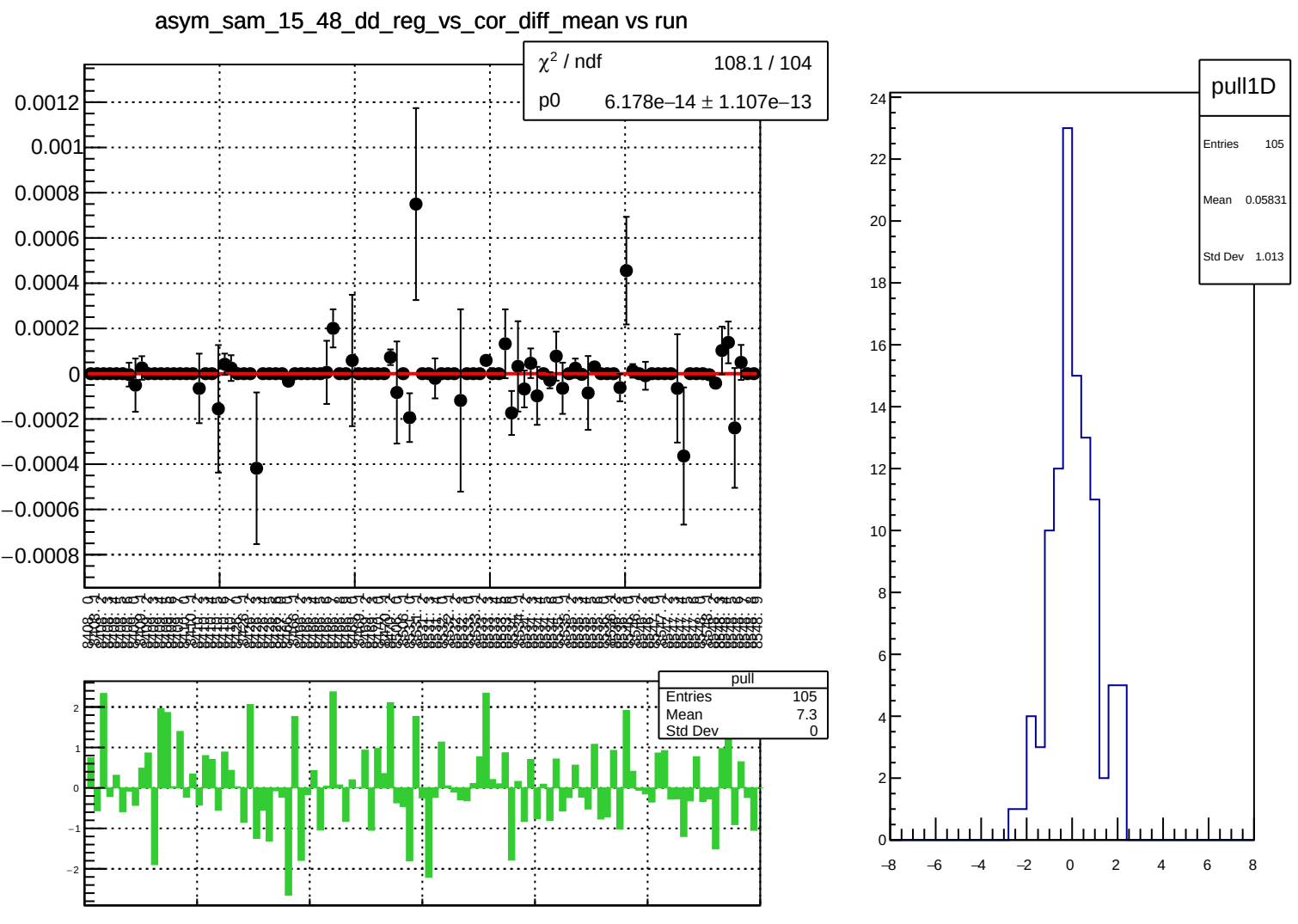

asym_sam_15_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 113.2 / 104
p0 3769 ± 1038
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 105
Mean 612.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.003158
Std Dev 1.039
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

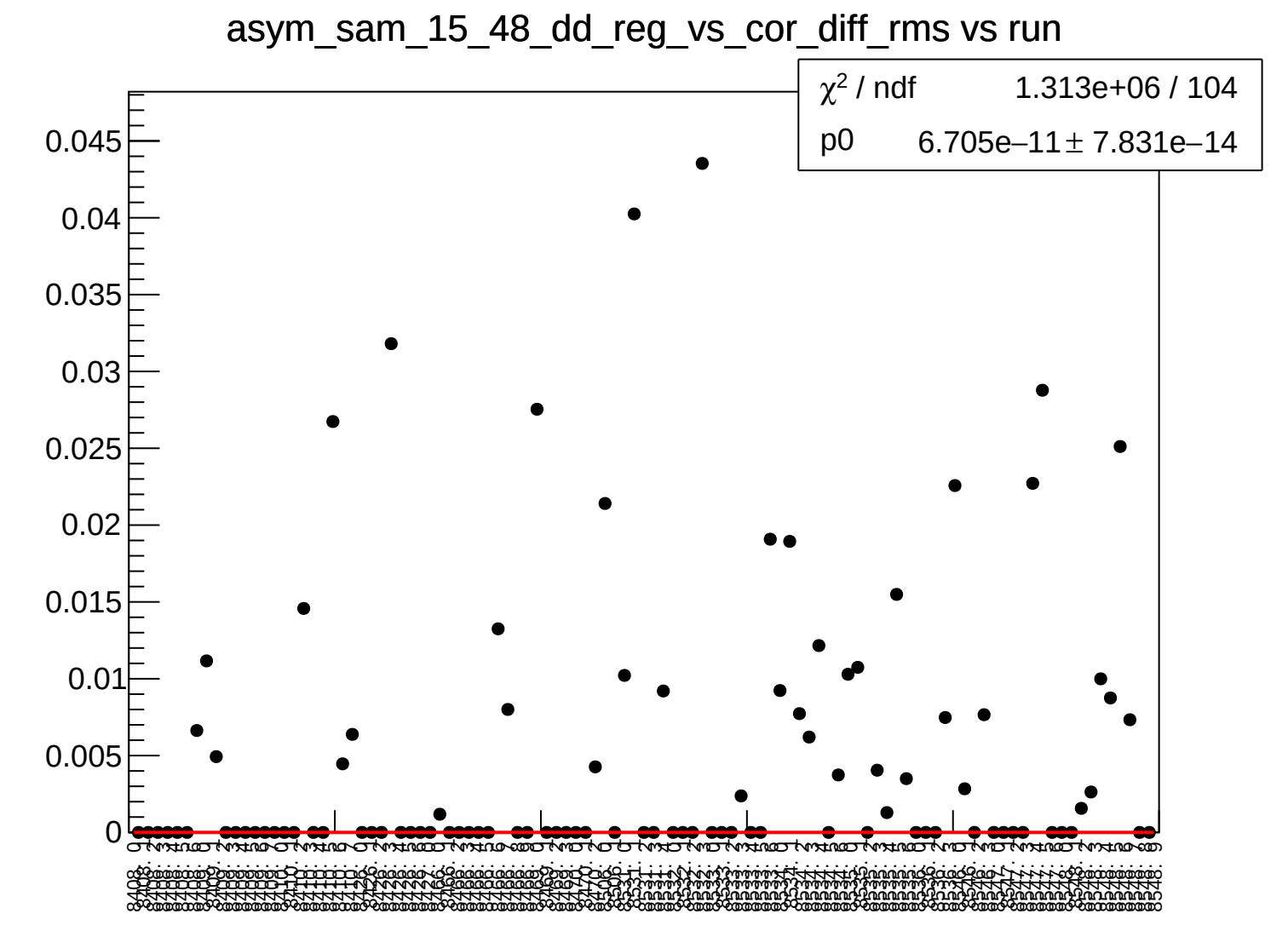

asym_sam_15_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.346e+04 / 104
p0 1046 ± 0.734
1300
1200
1100
1000
900

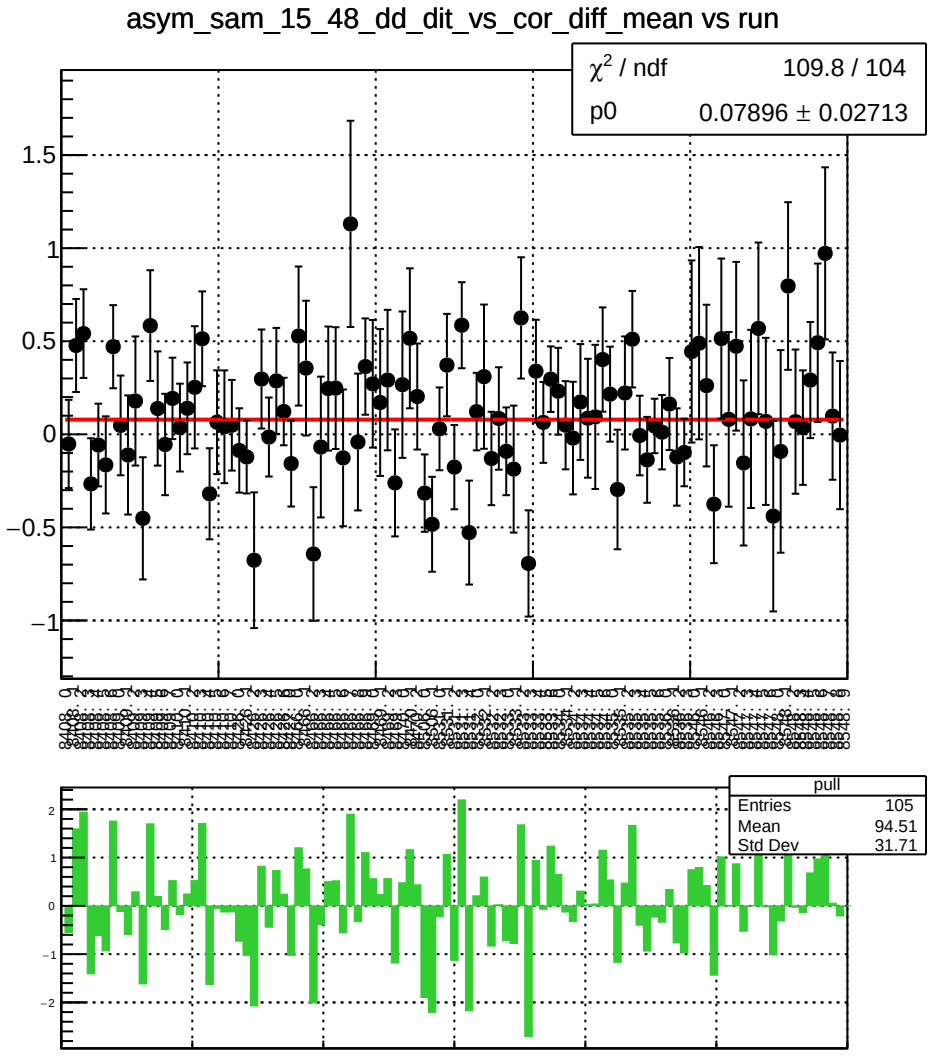

asym_sam_15_48_dd_mean vs run
χ² / ndf 113.1 / 104
p0 −3653 ± 1022
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 105
Mean 460.2
Std Dev 0
2
1
0
−1
−2

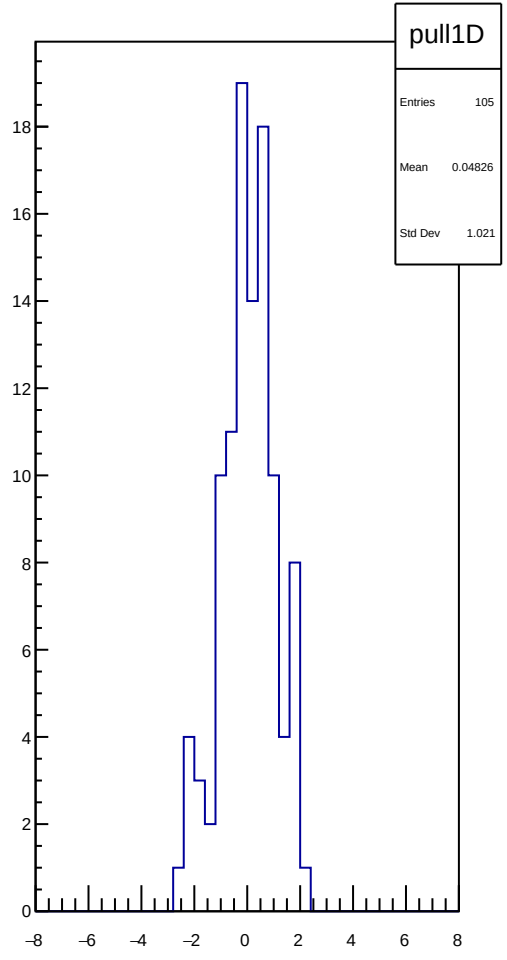

pull1D
Entries 105
Mean −0.003606
Std Dev 1.038
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

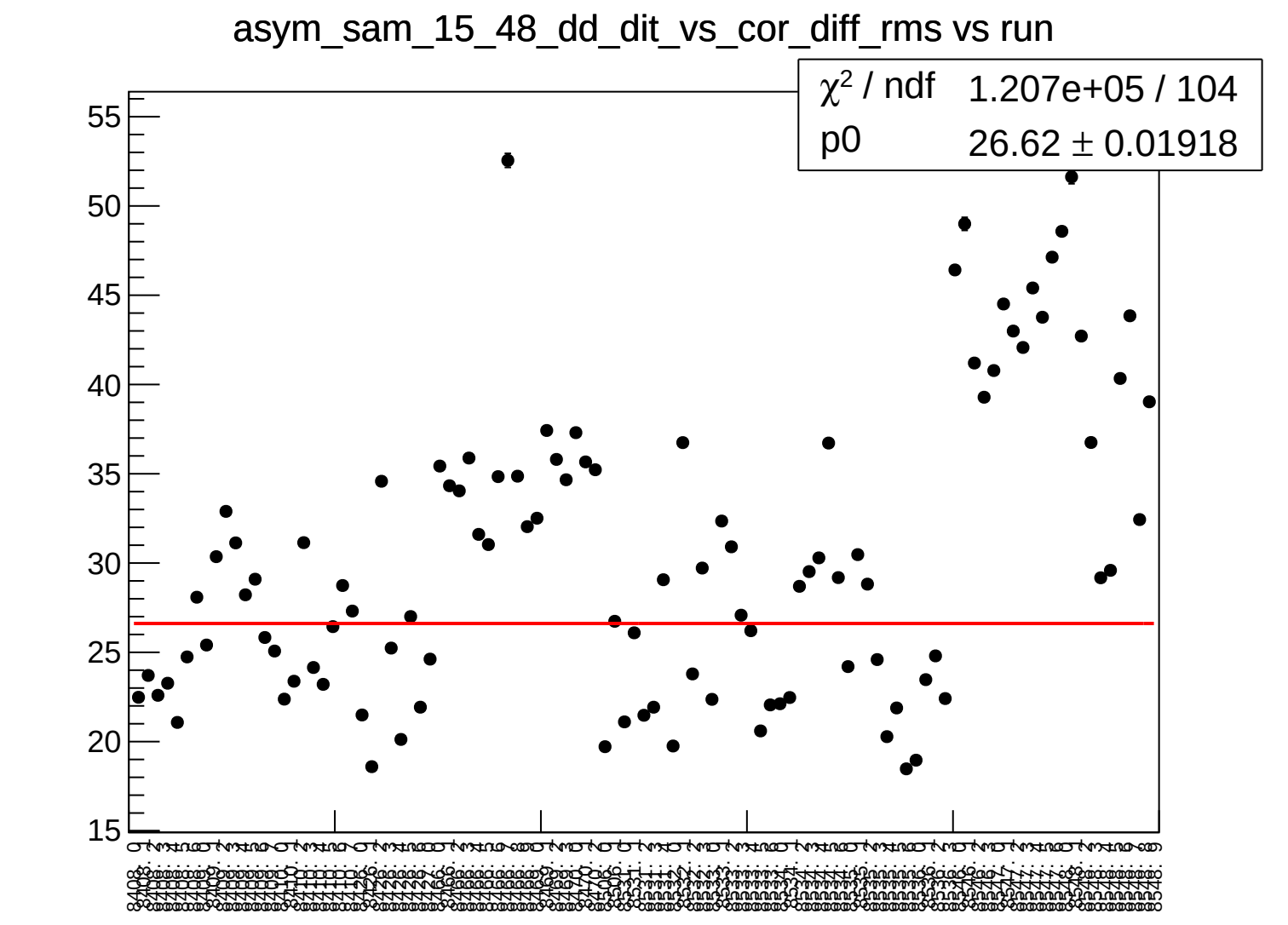

asym_sam_15_48_dd_rms vs run
χ² / ndf 1.474e+04 / 104
p0 1030 ± 0.7226
1300
1200
1100
1000
900

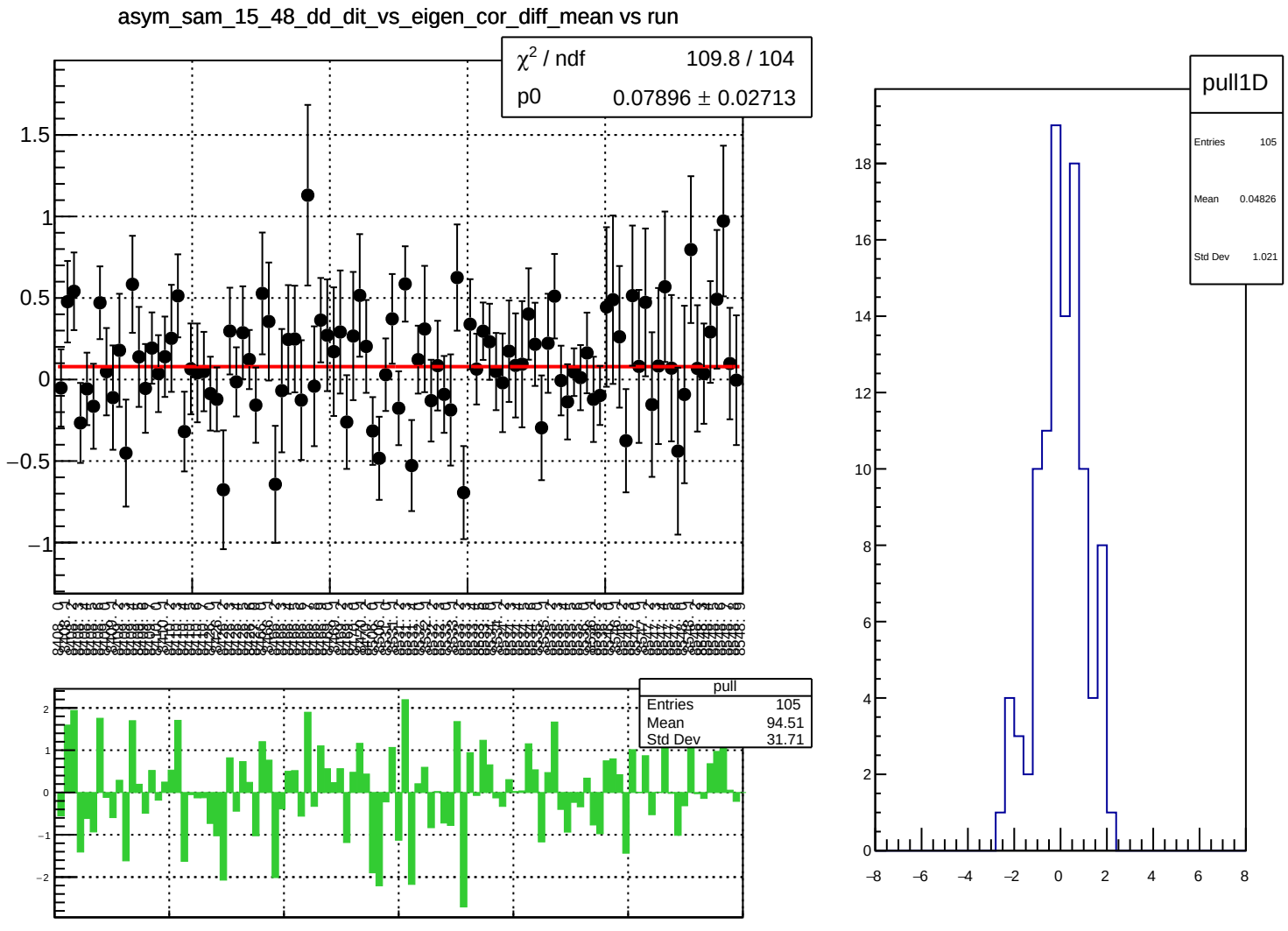

asym_sam_15_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 108.1 / 104
p0 6.178e−14 ± 1.107e−13
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
−0.0006
−0.0008
pull
Entries 105
Mean 7.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.05831
Std Dev 1.013
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

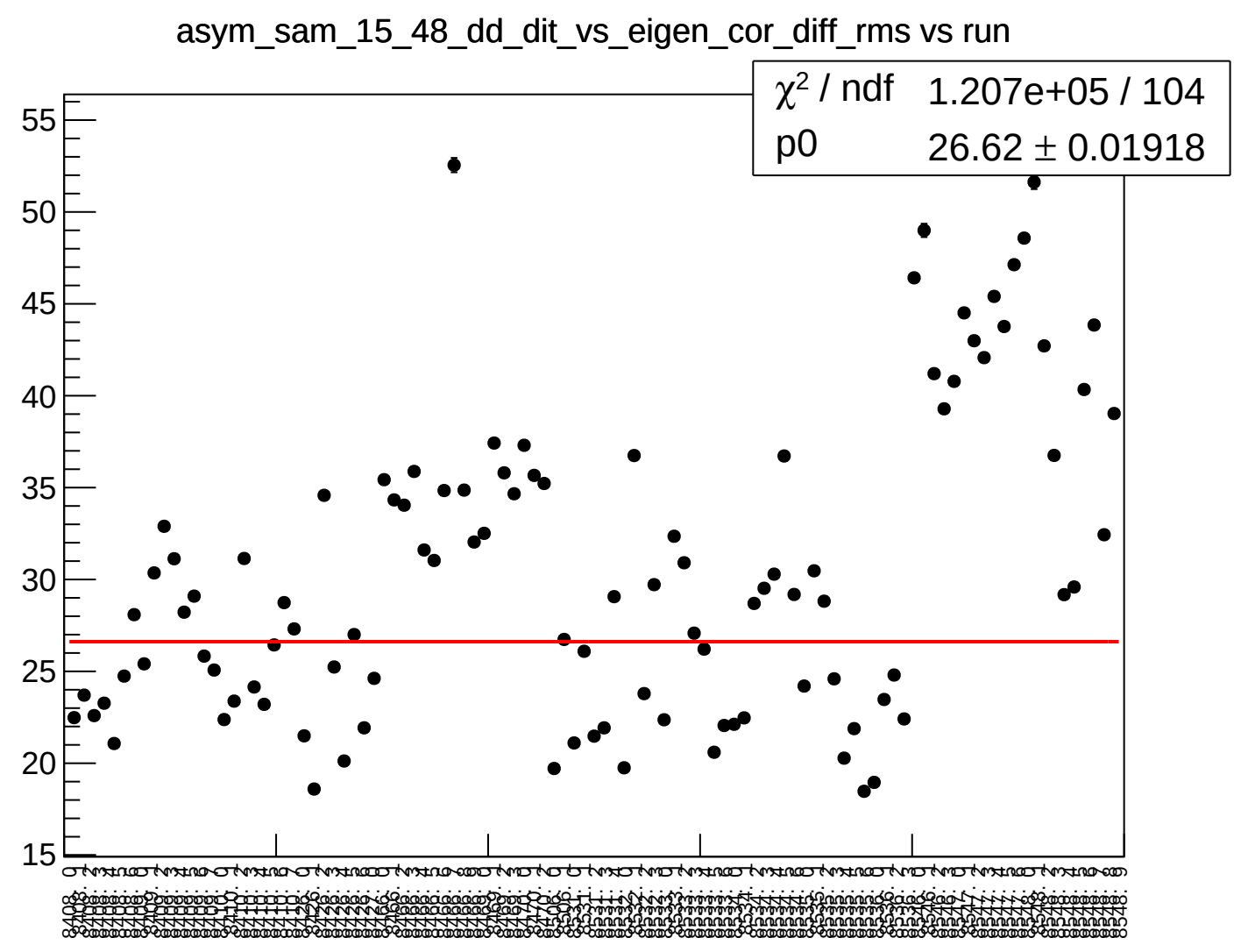

asym_sam_15_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.313e+06 / 104
p0 6.705e−11 ± 7.831e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

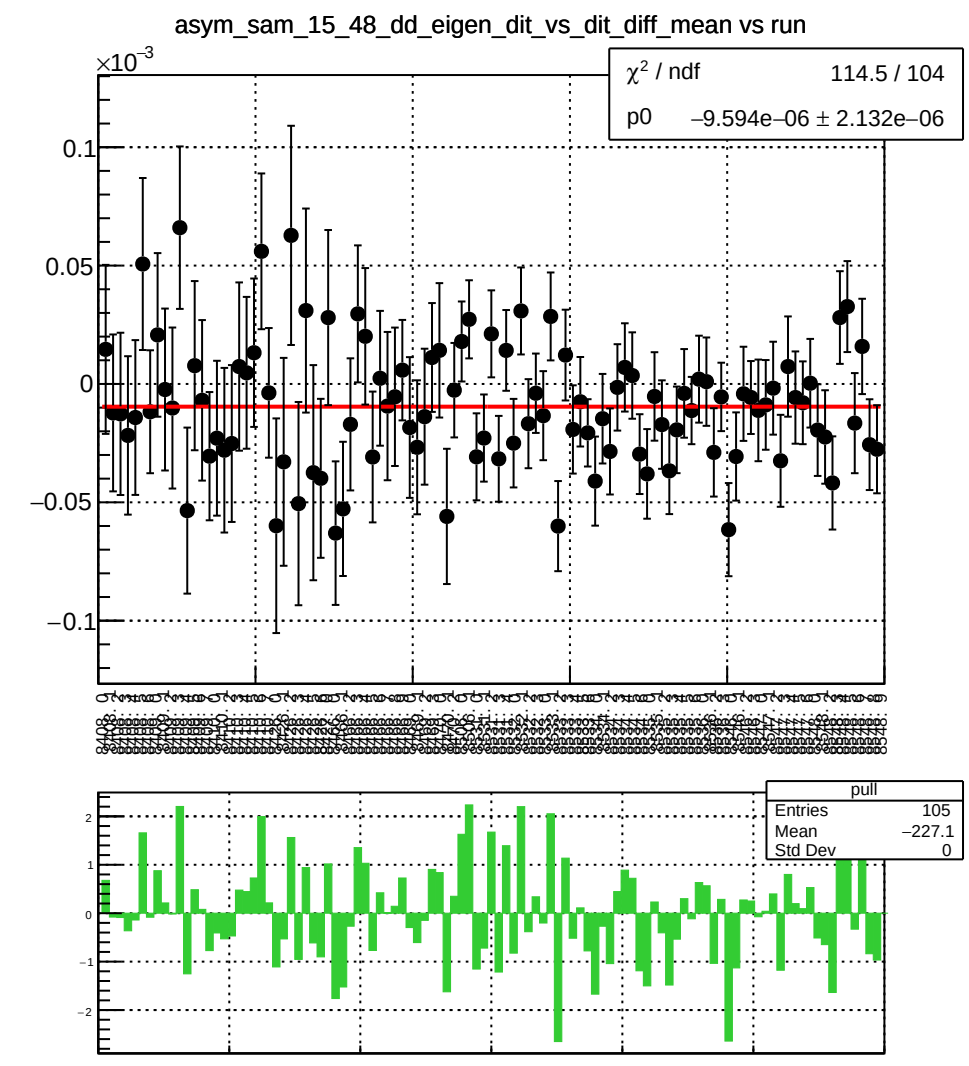

asym_sam_15_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 109.8 / 104
p0 0.07896 ± 0.02713
pull
Entries 105
Mean 94.51
Std Dev 31.71

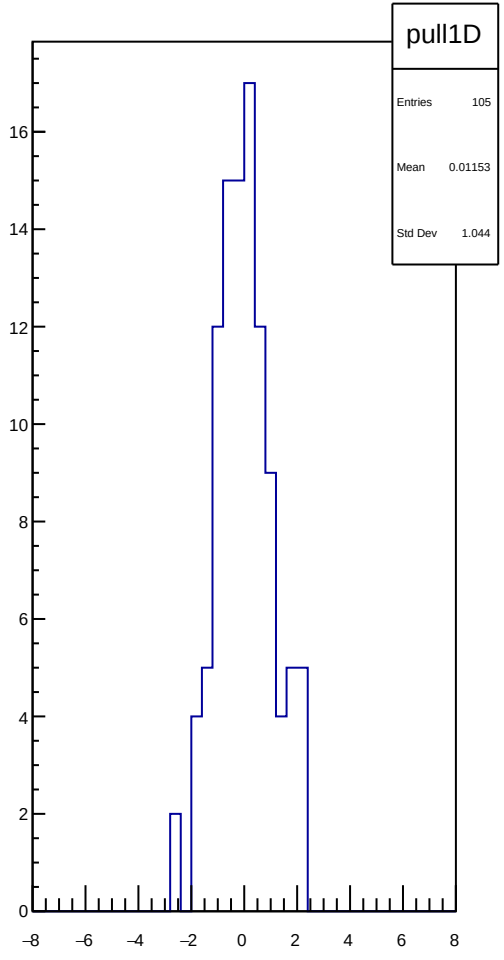

pull1D
Entries 105
Mean 0.04826
Std Dev 1.021

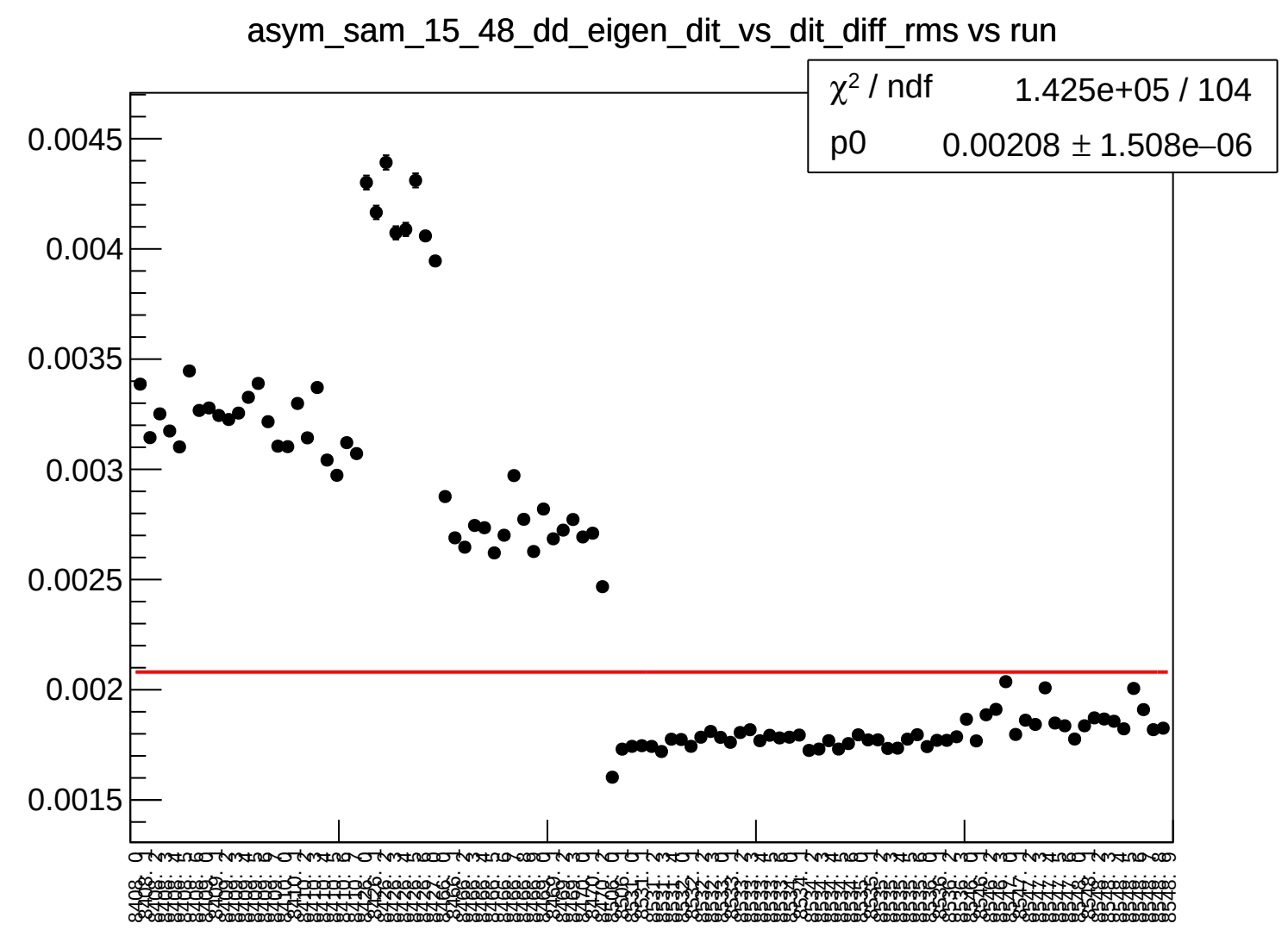

asym_sam_15_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 1.207e+05 / 104
p0 26.62 ± 0.01918
55
50
45
40
35
30
25
20
15

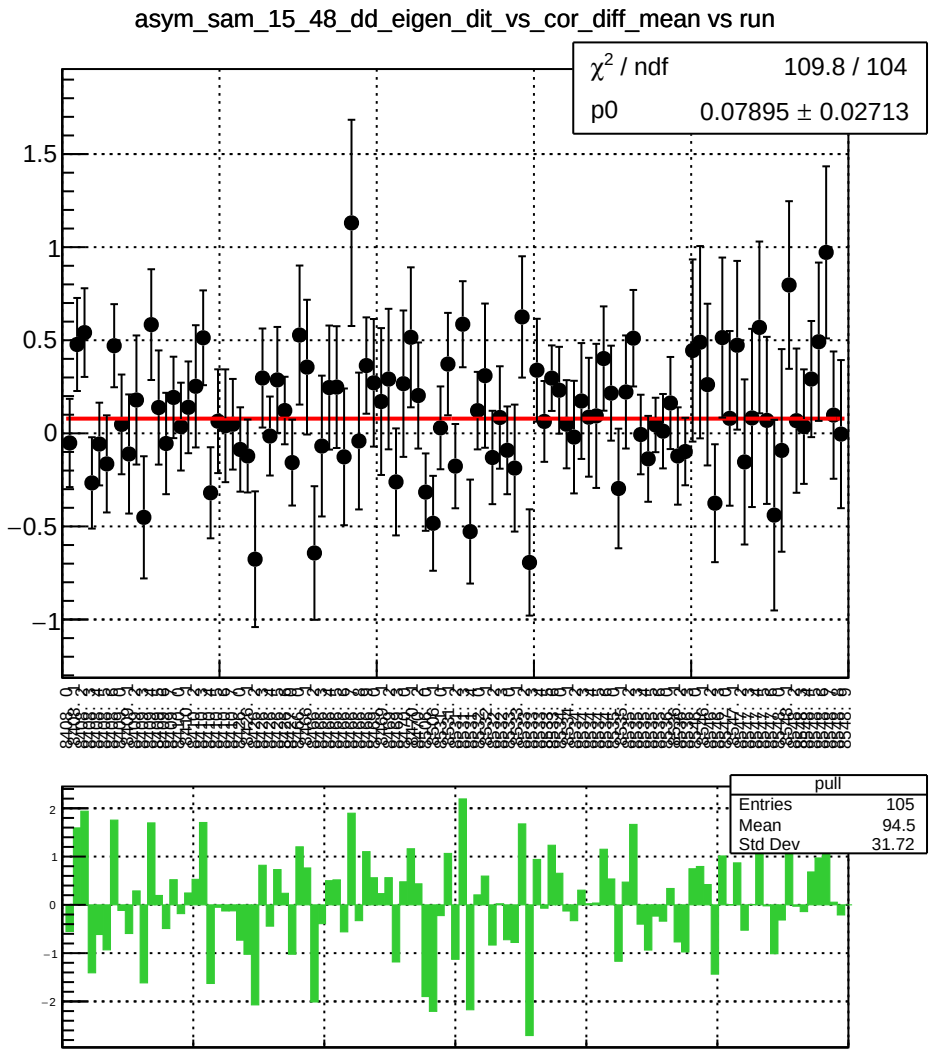

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.8 / 104
p0 0.07896 ± 0.02713
pull
Entries 105
Mean 94.51
Std Dev 31.71
pull1D
Entries 105
Mean 0.04826
Std Dev 1.021

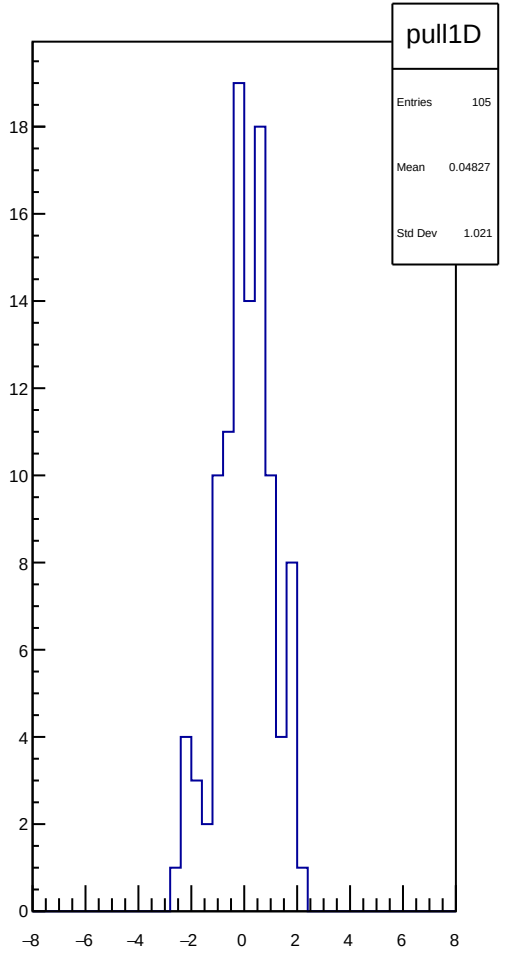

asym_sam_15_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.207e+05 / 104
p0 26.62 ± 0.01918
55
50
45
40
35
30
25
20
15

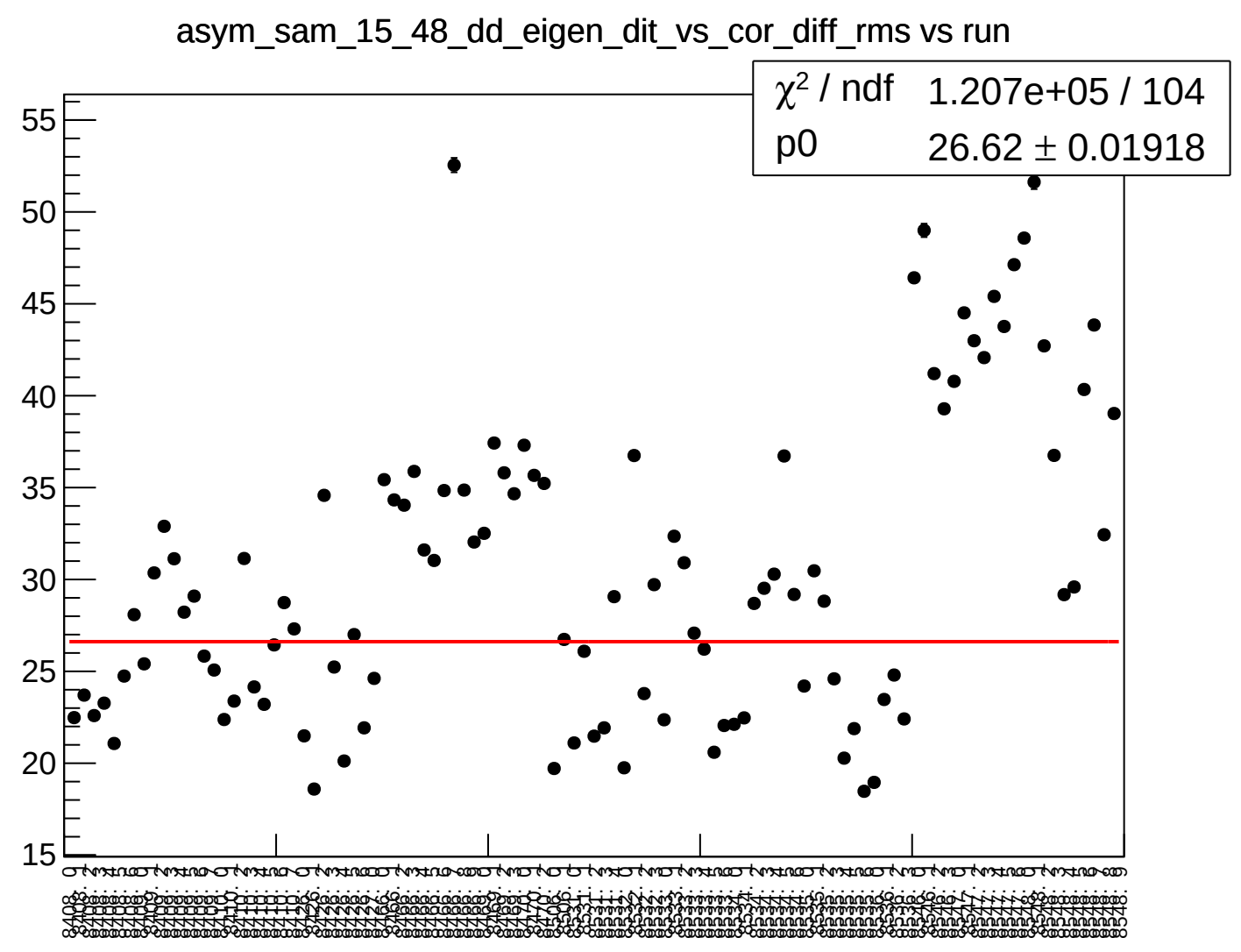

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 114.5 / 104
p0 −9.594e−06 ± 2.132e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 105
Mean −227.1
Std Dev 0
2
1
0
−1
−2

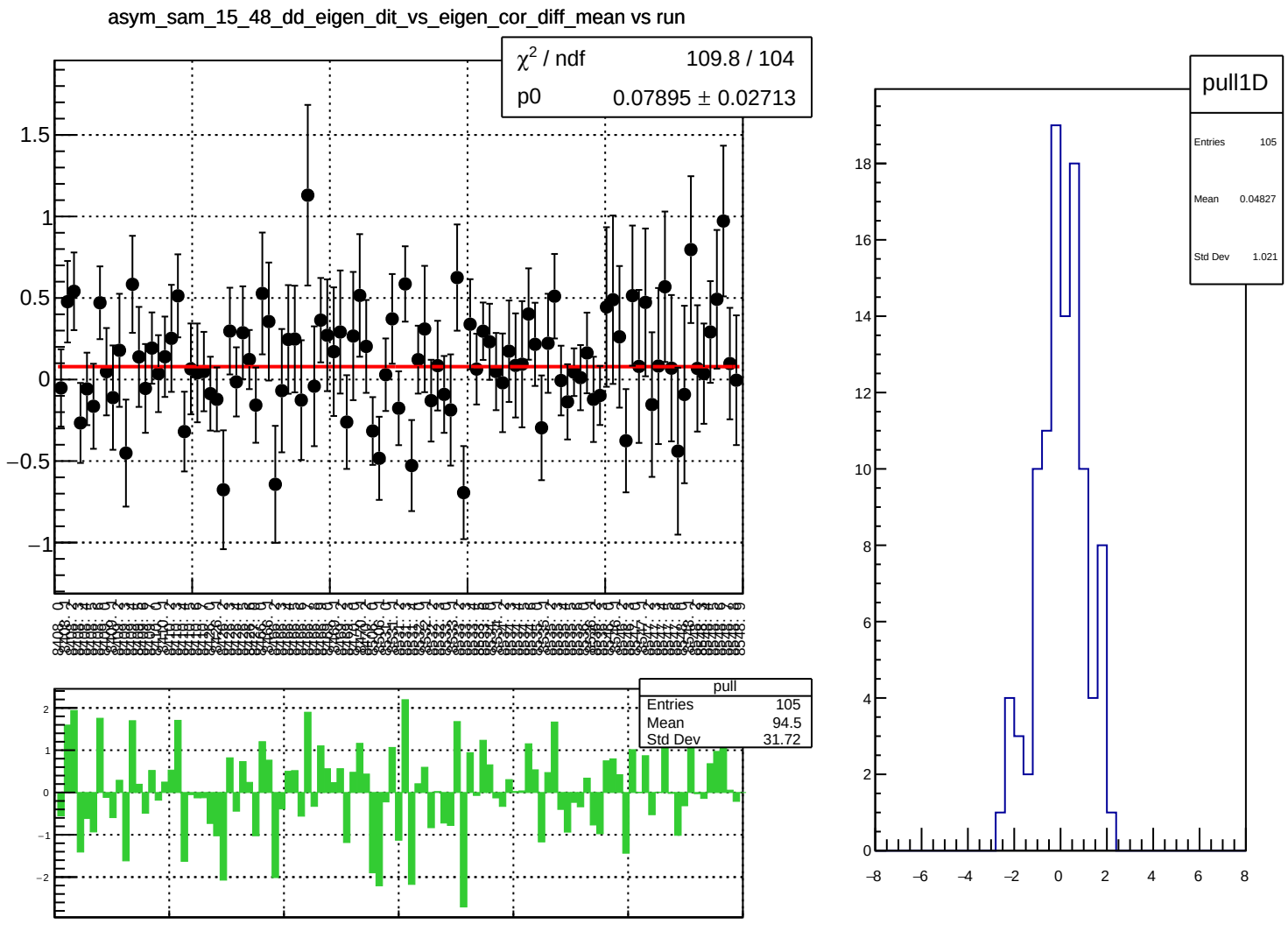

pull1D
Entries 105
Mean 0.01153
Std Dev 1.044
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

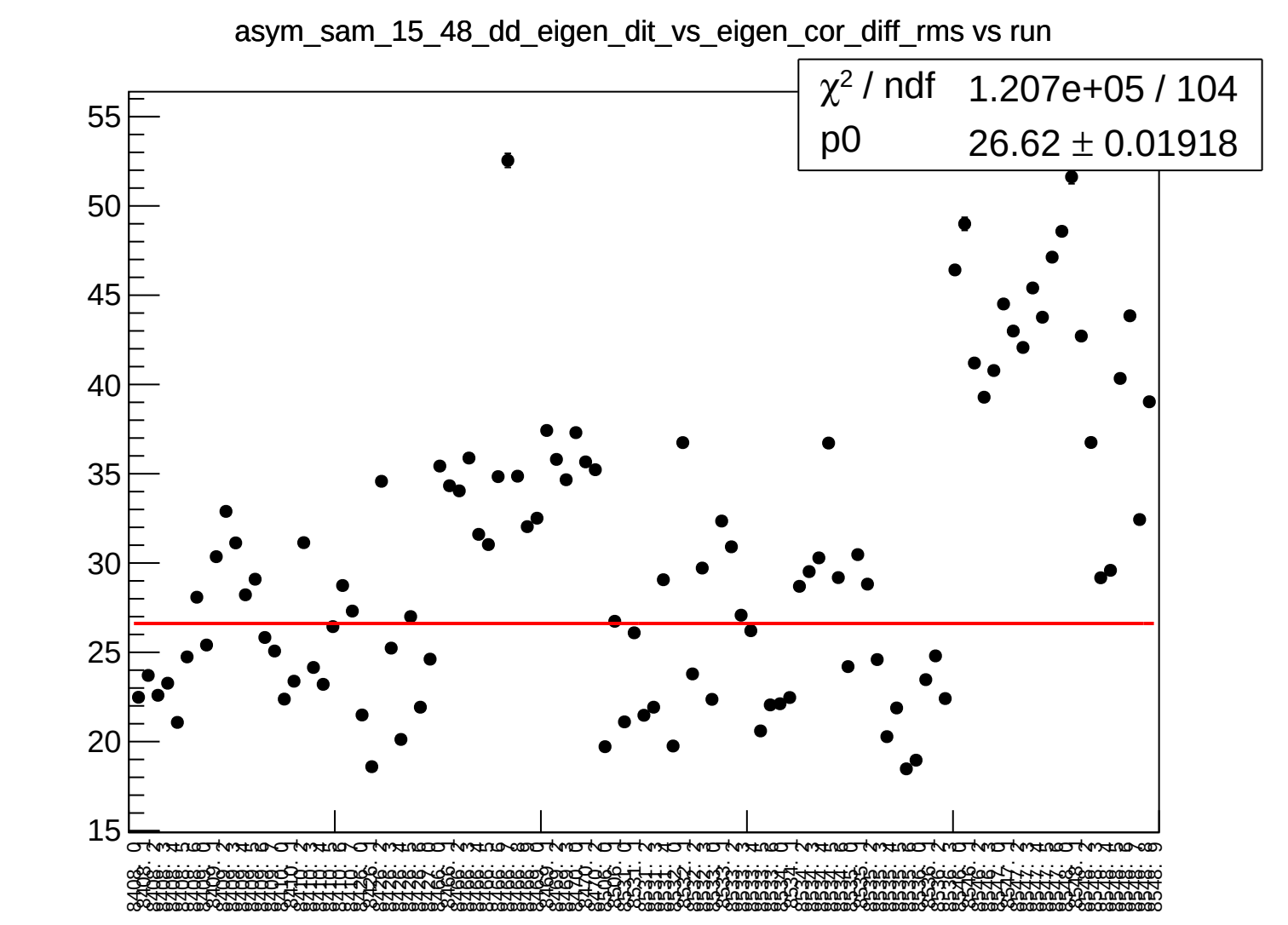

asym_sam_15_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.425e+05 / 104
p0 0.00208 ± 1.508e–06
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015

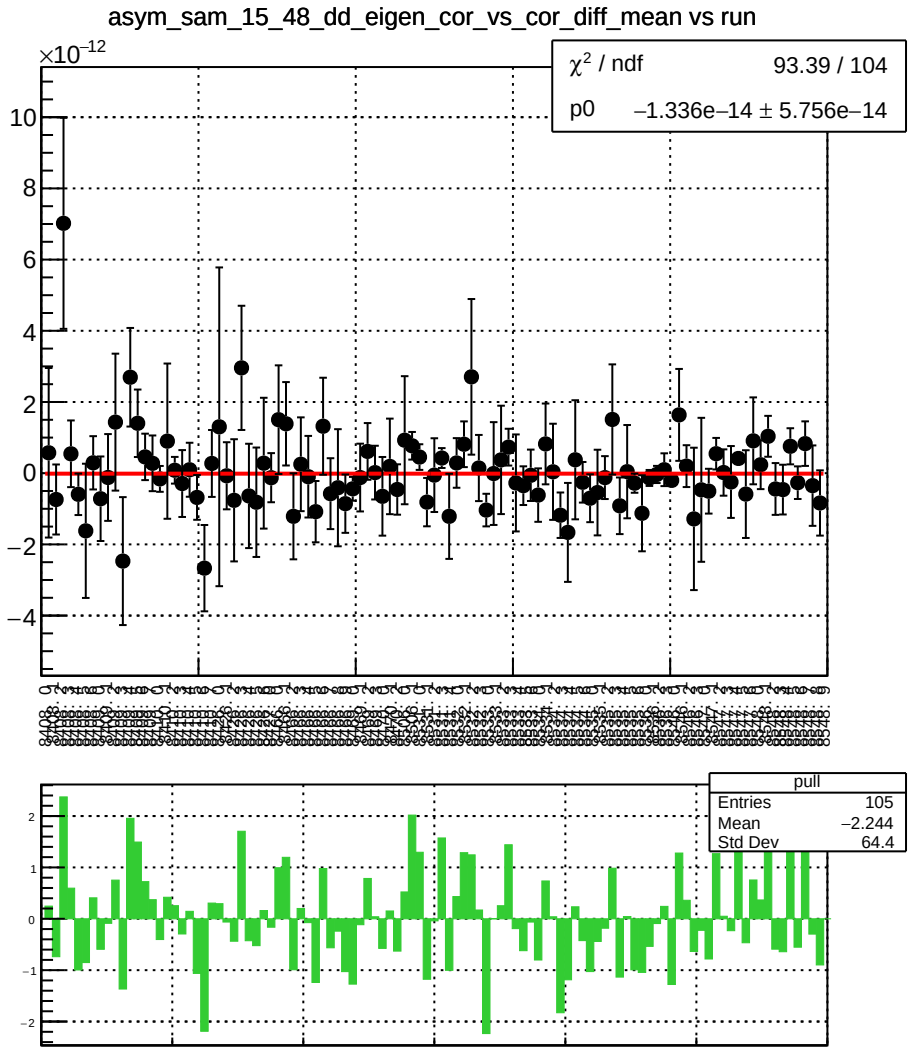

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 109.8 / 104
p0 0.07895 ± 0.02713
pull
Entries 105
Mean 94.5
Std Dev 31.72

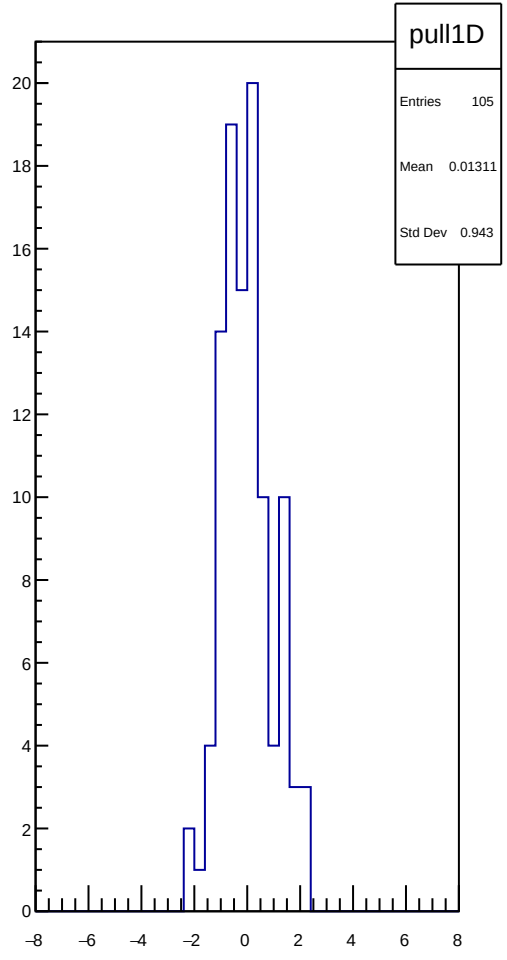

pull1D
Entries 105
Mean 0.04827
Std Dev 1.021

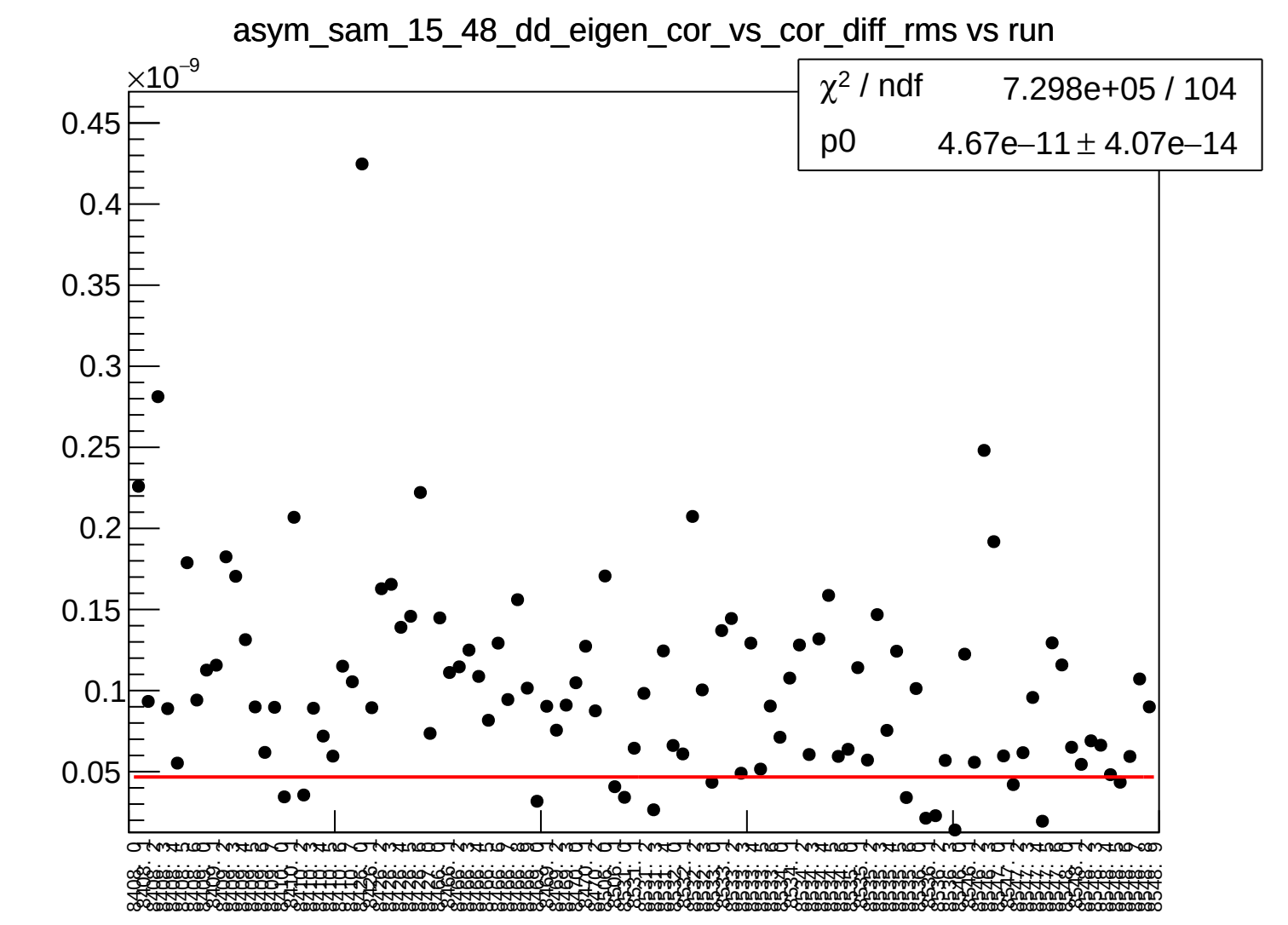

asym_sam_15_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.207e+05 / 104
p0 26.62 ± 0.01918
55
50
45
40
35
30
25
20
15

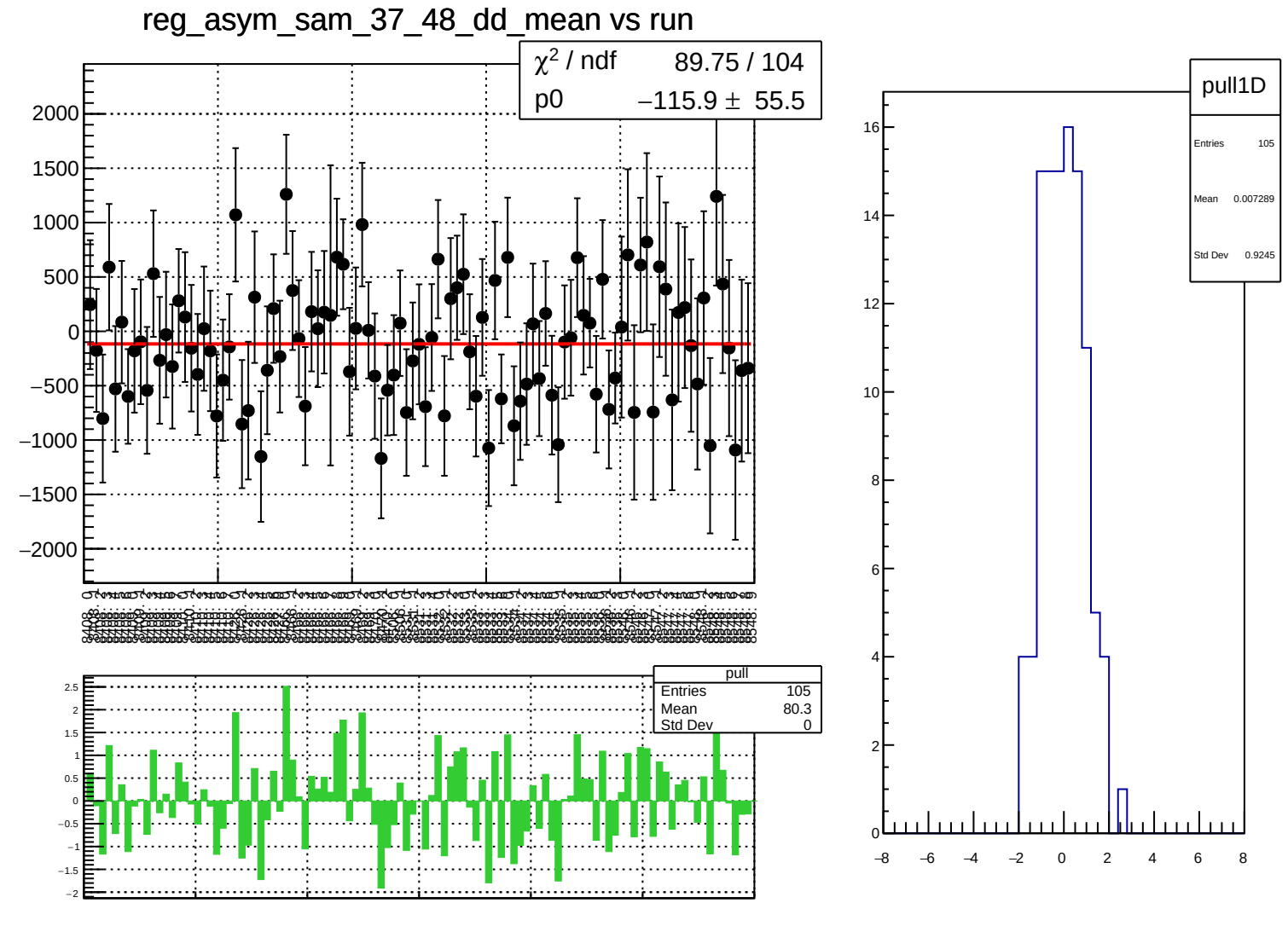

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.8 / 104
p0 0.07895 ± 0.02713
pull
Entries 105
Mean 94.5
Std Dev 31.72
pull1D
Entries 105
Mean 0.04827
Std Dev 1.021

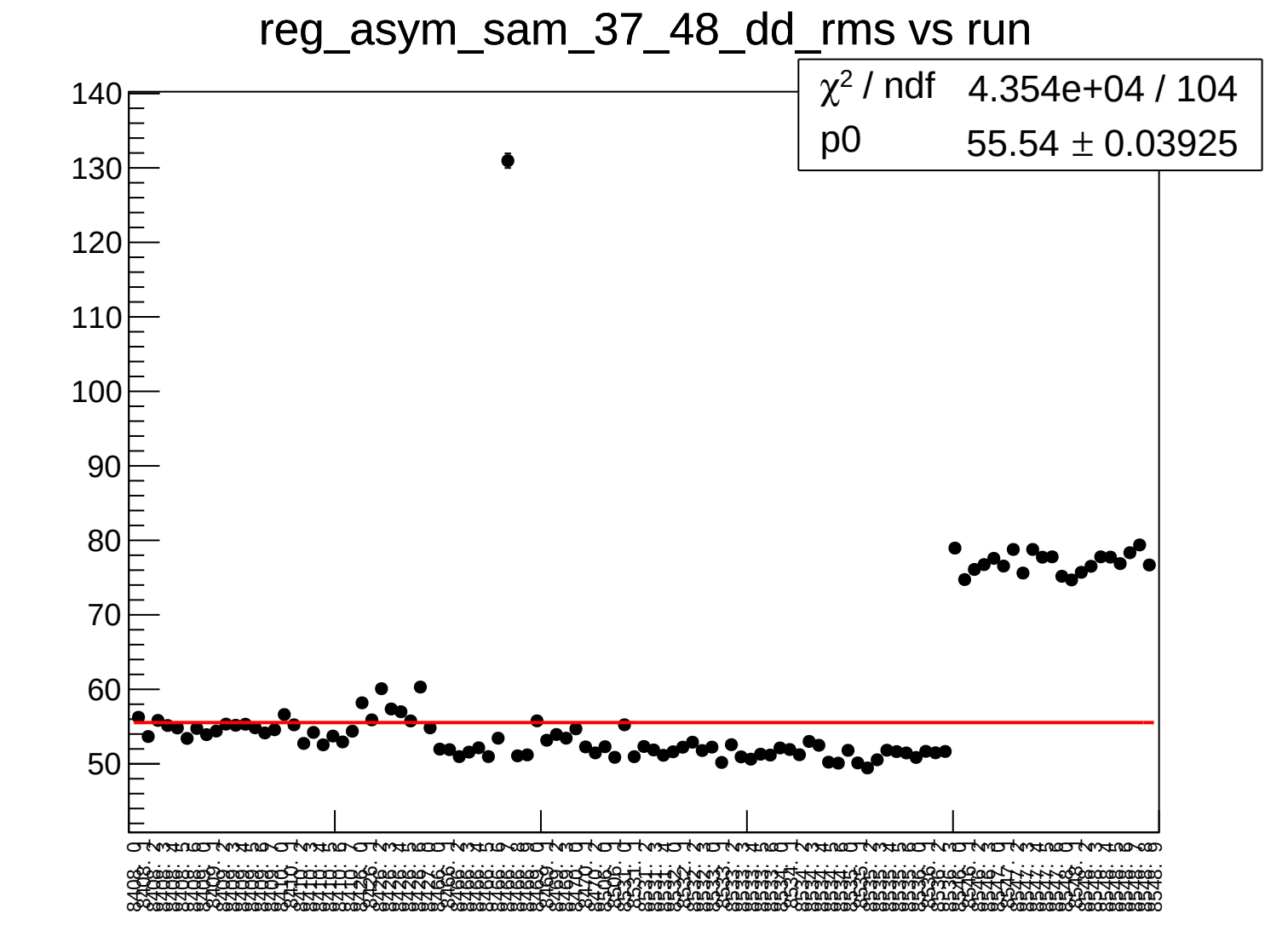

asym_sam_15_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.207e+05 / 104
p0 26.62 ± 0.01918
55
50
45
40
35
30
25
20
15

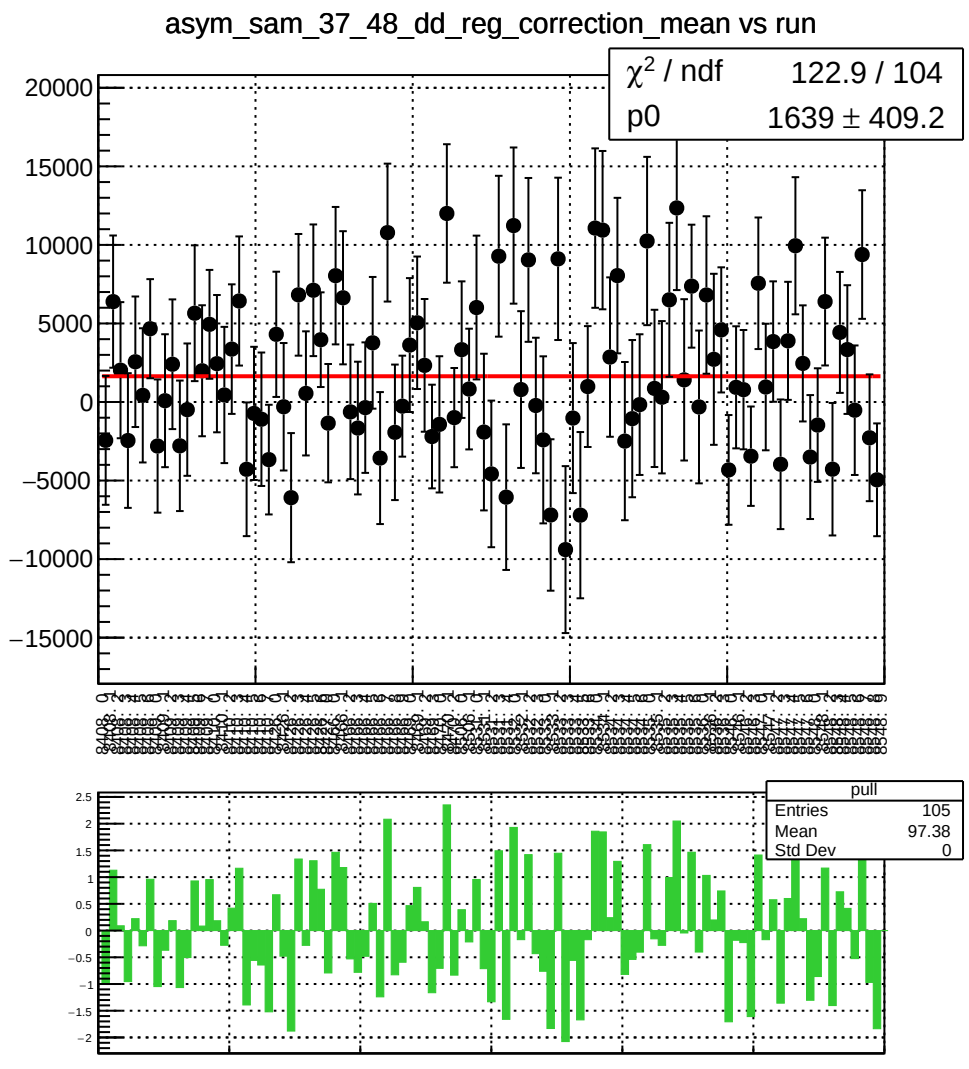

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 93.39 / 104
p0 −1.336e−14 ± 5.756e−14
pull
Entries 105
Mean −2.244
Std Dev 64.4

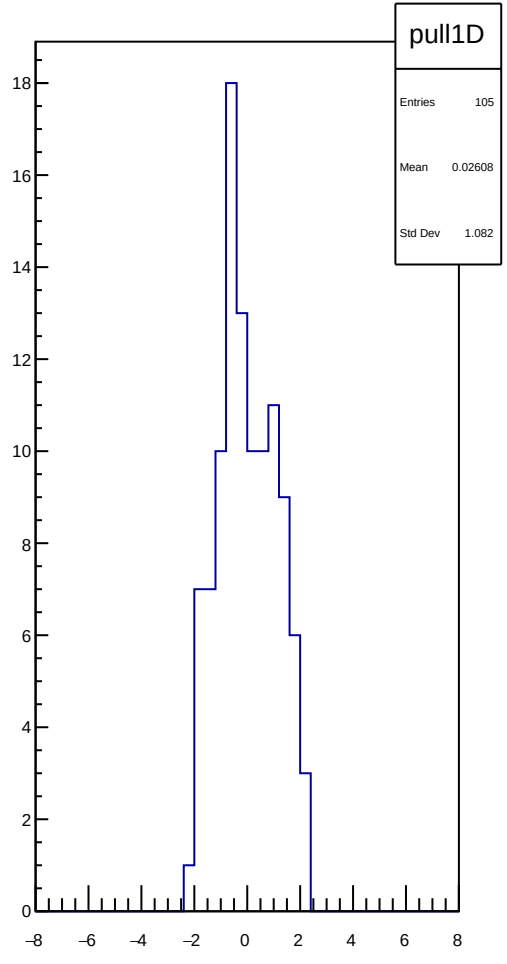

pull1D
Entries 105
Mean 0.01311
Std Dev 0.943

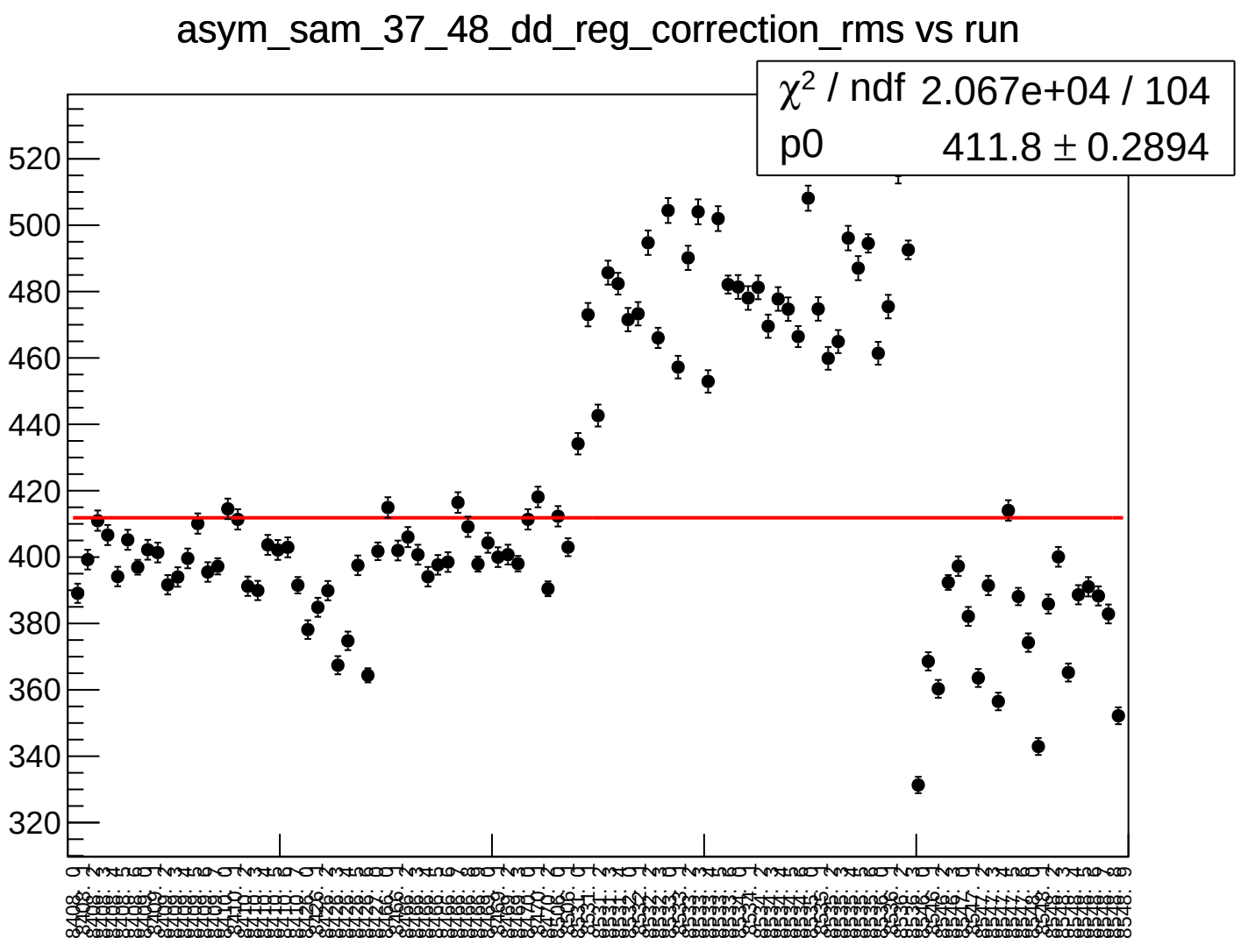

asym_sam_15_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.298e+05 / 104
p0 4.67e−11 ± 4.07e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

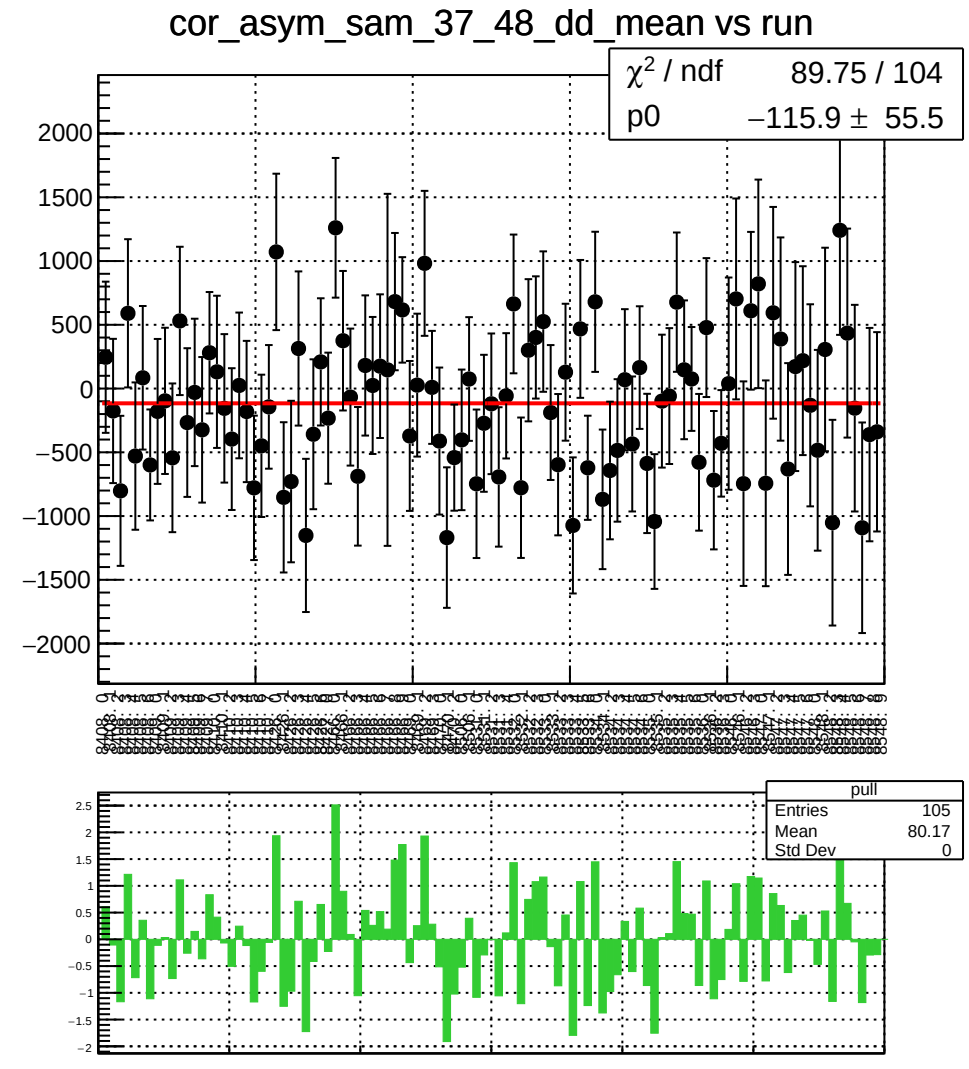

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 89.75 / 104
p0 −115.9 ± 55.5
pull
Entries 105
Mean 80.3
Std Dev 0
pull1D
Entries 105
Mean 0.007289
Std Dev 0.9245

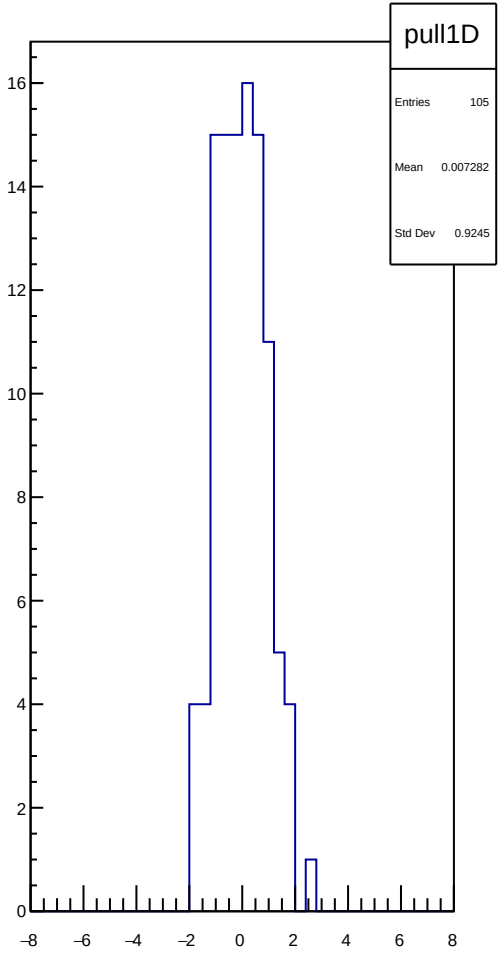

reg_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 4.354e+04 / 104
p0 55.54 ± 0.03925
140
130
120
110
100
90
80
70
60
50

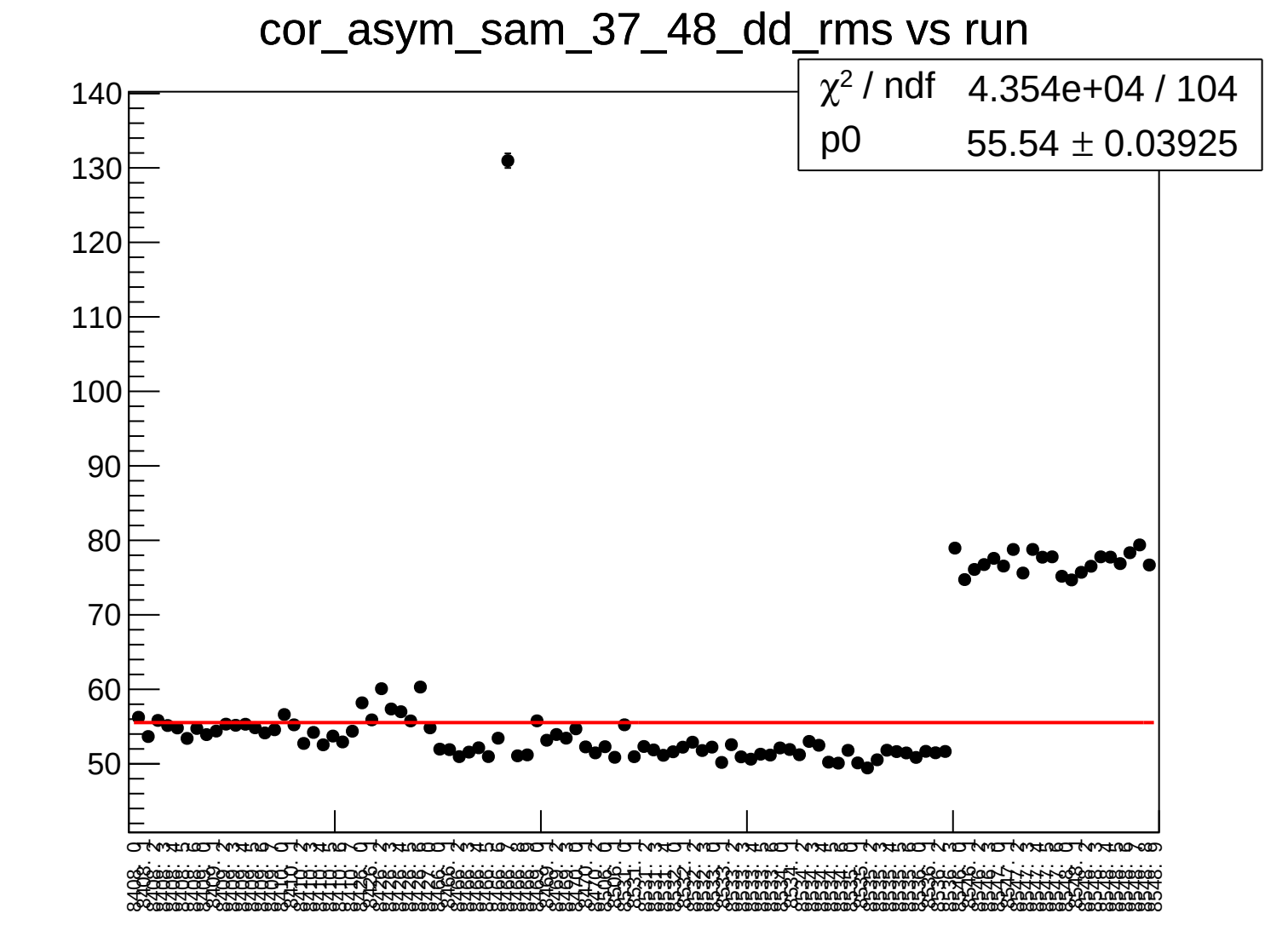

asym_sam_37_48_dd_reg_correction_mean vs run
χ² / ndf 122.9 / 104
p0 1639 ± 409.2
pull
Entries 105
Mean 97.38
Std Dev 0

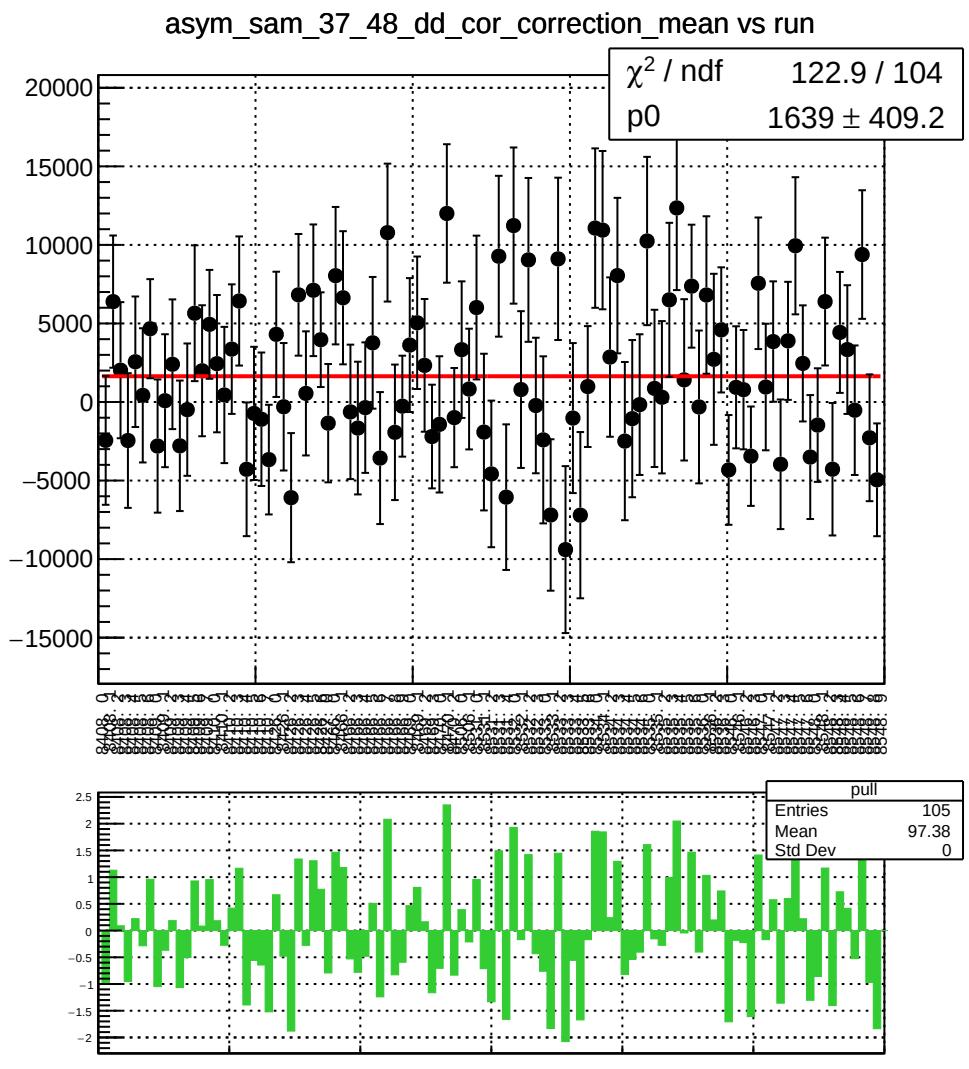

pull1D
Entries 105
Mean 0.02608
Std Dev 1.082

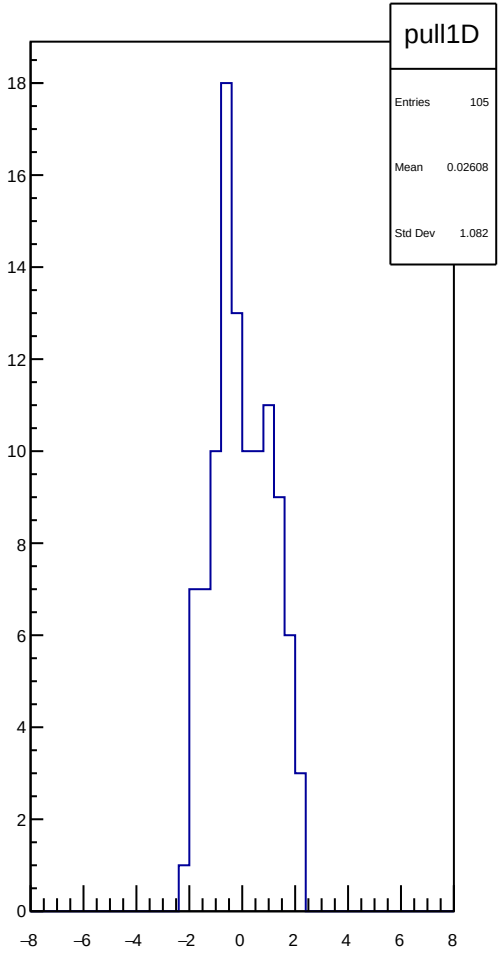

asym_sam_37_48_dd_reg_correction_rms vs run
χ² / ndf 2.067e+04 / 104
p0 411.8 ± 0.2894
520
500
480
460
440
420
400
380
360
340
320

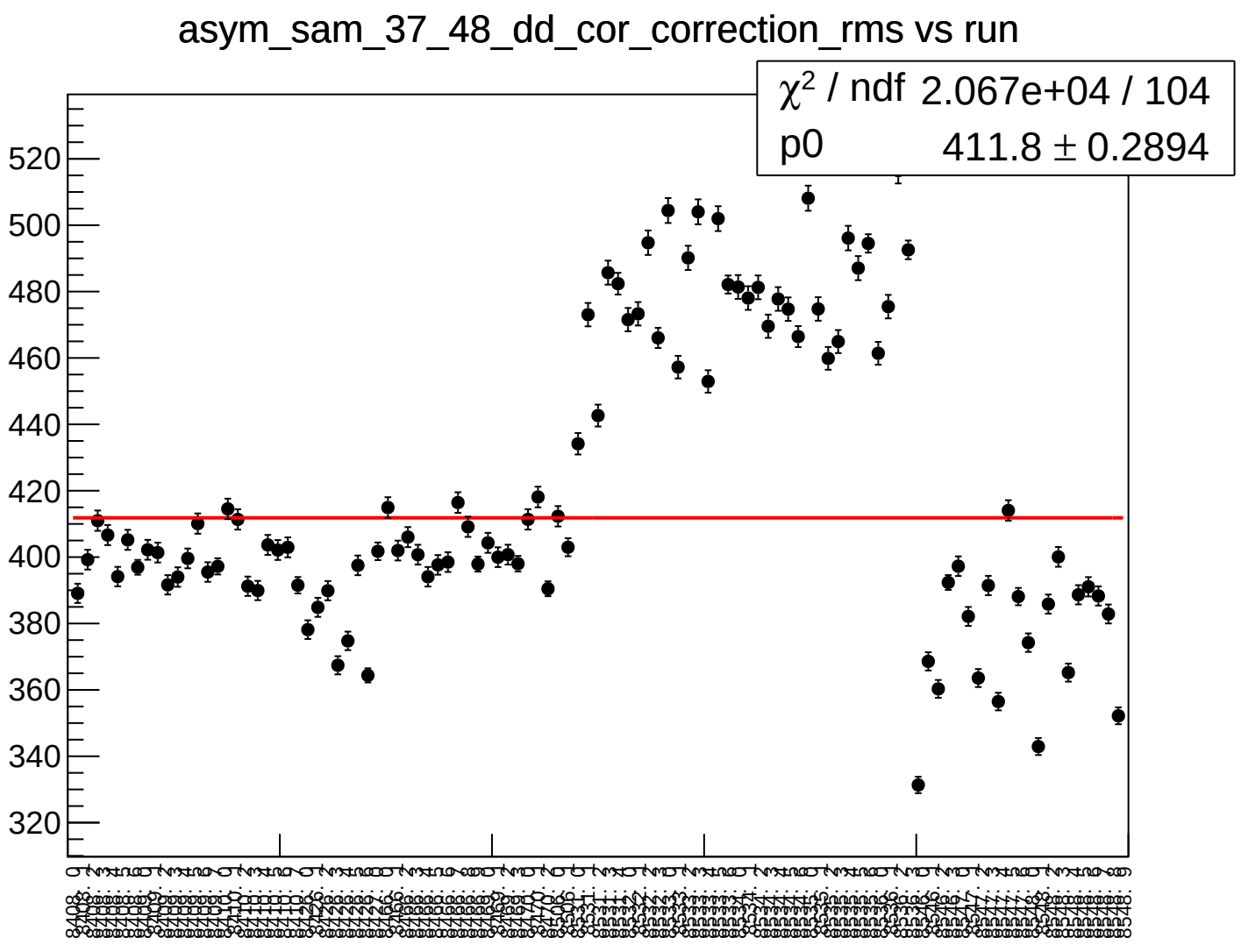

cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 89.75 / 104
p0 −115.9 ± 55.5
pull
Entries 105
Mean 80.17
Std Dev 0

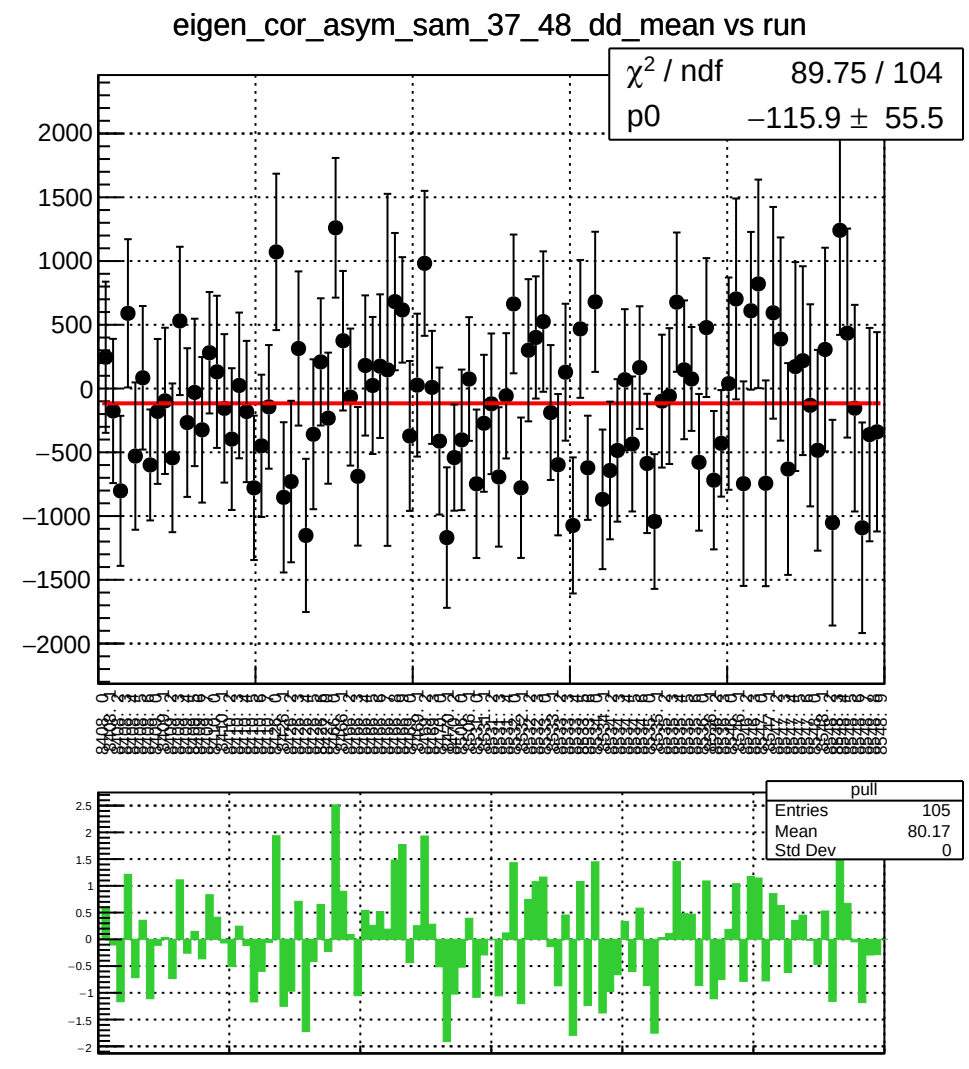

pull1D
Entries 105
Mean 0.007282
Std Dev 0.9245

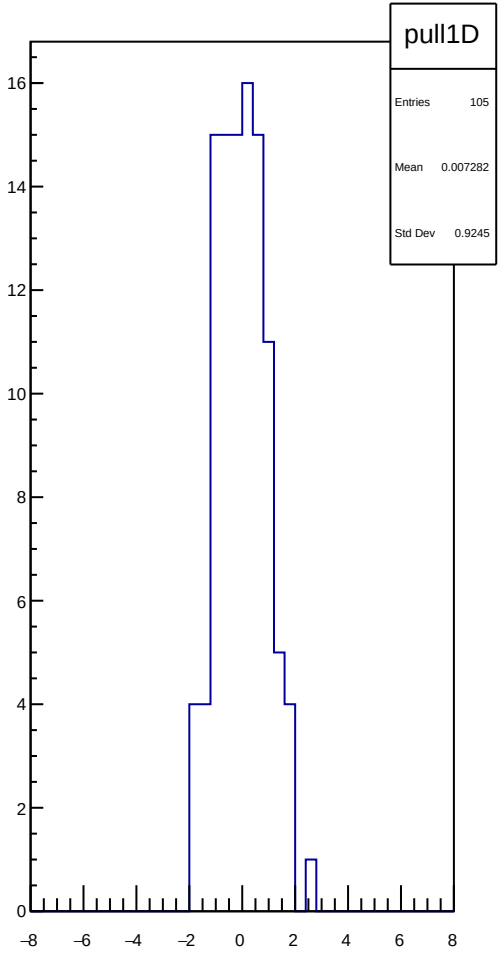

cor_asym_sam_37_48_dd_rms vs run
χ² / ndf 4.354e+04 / 104
p0 55.54 ± 0.03925
140
130
120
110
100
90
80
70
60
50

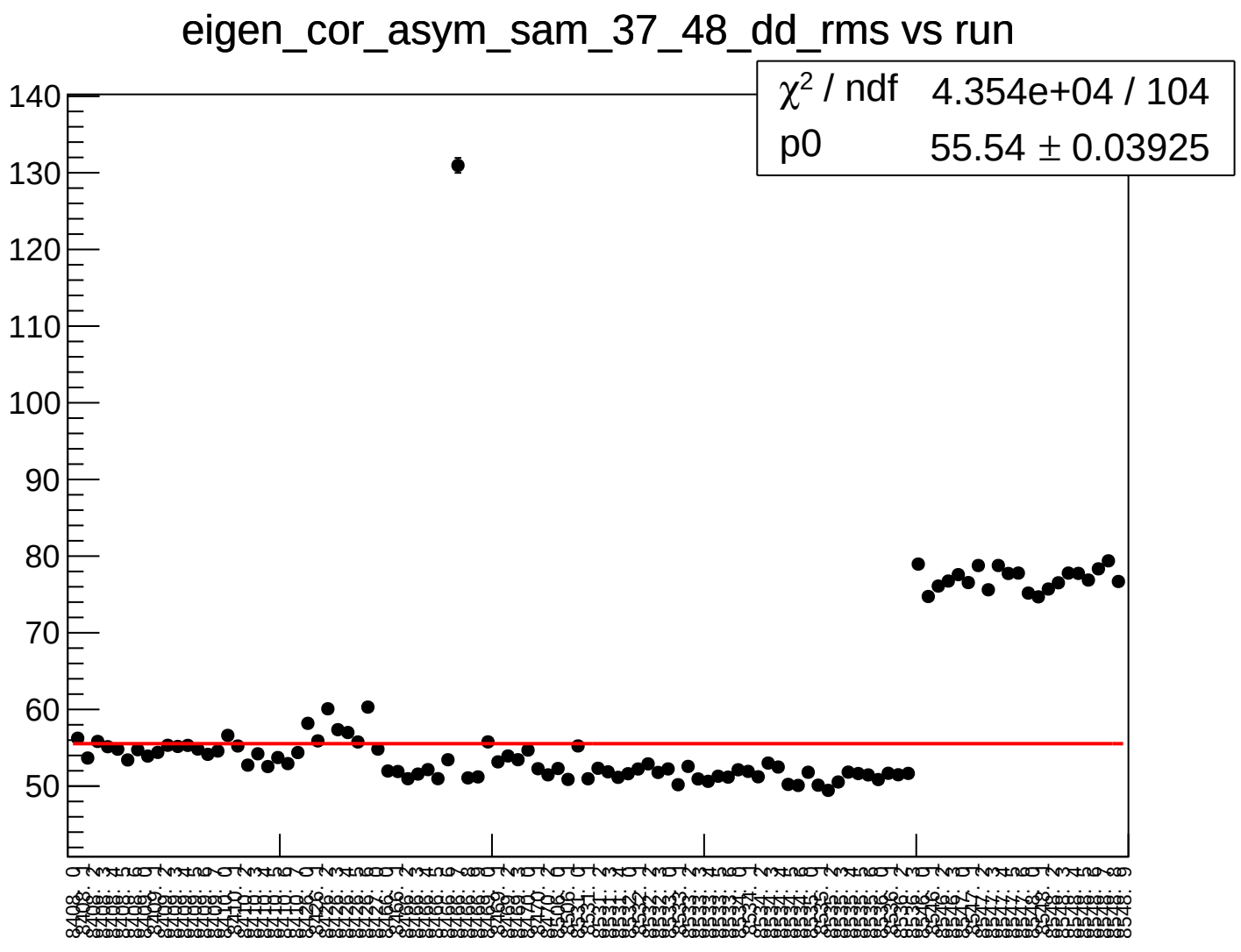

asym_sam_37_48_dd_cor_correction_mean vs run
χ² / ndf 122.9 / 104
p0 1639 ± 409.2
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 105
Mean 97.38
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

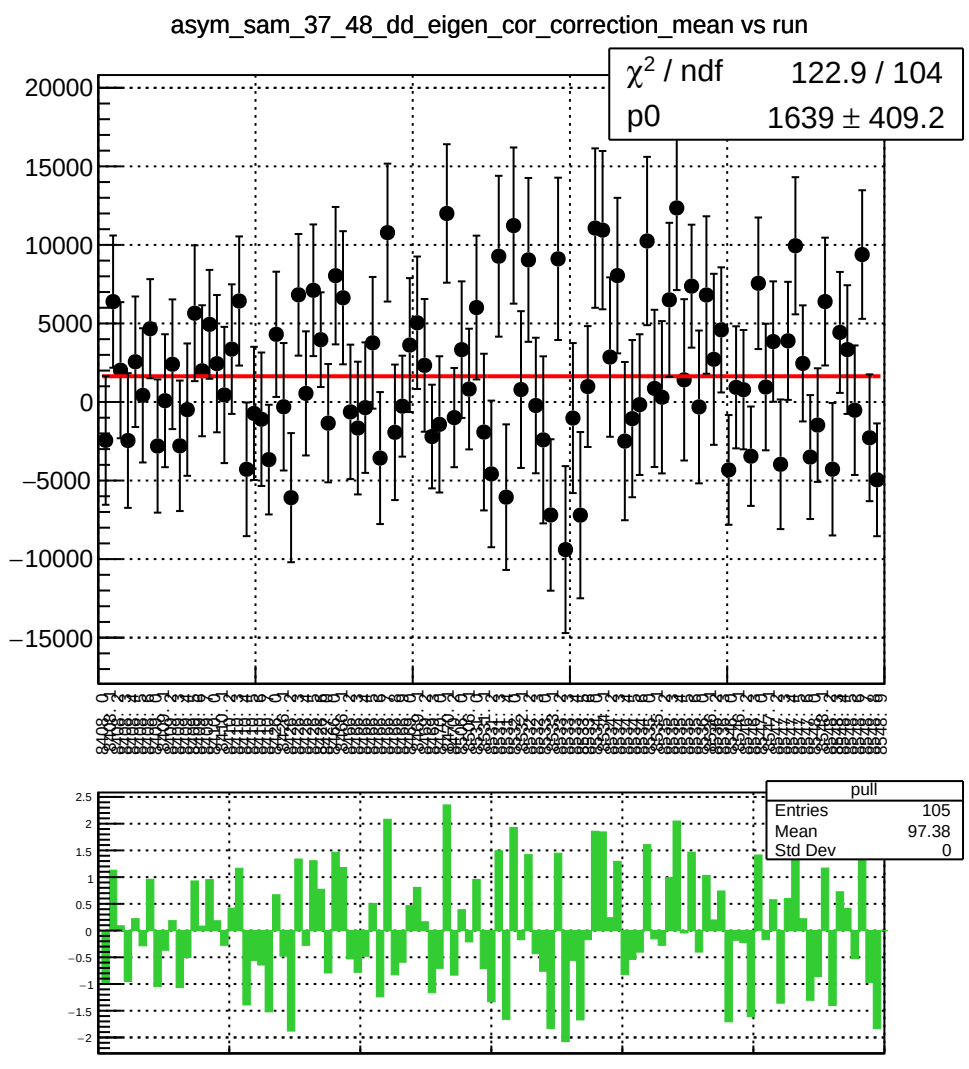

pull1D
Entries 105
Mean 0.02608
Std Dev 1.082
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

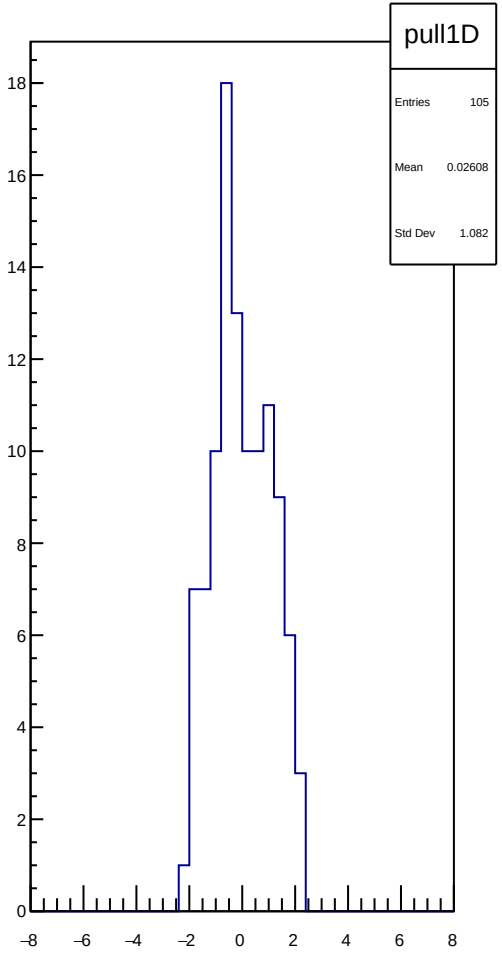

asym_sam_37_48_dd_cor_correction_rms vs run
χ² / ndf 2.067e+04 / 104
p0 411.8 ± 0.2894
520
500
480
460
440
420
400
380
360
340
320

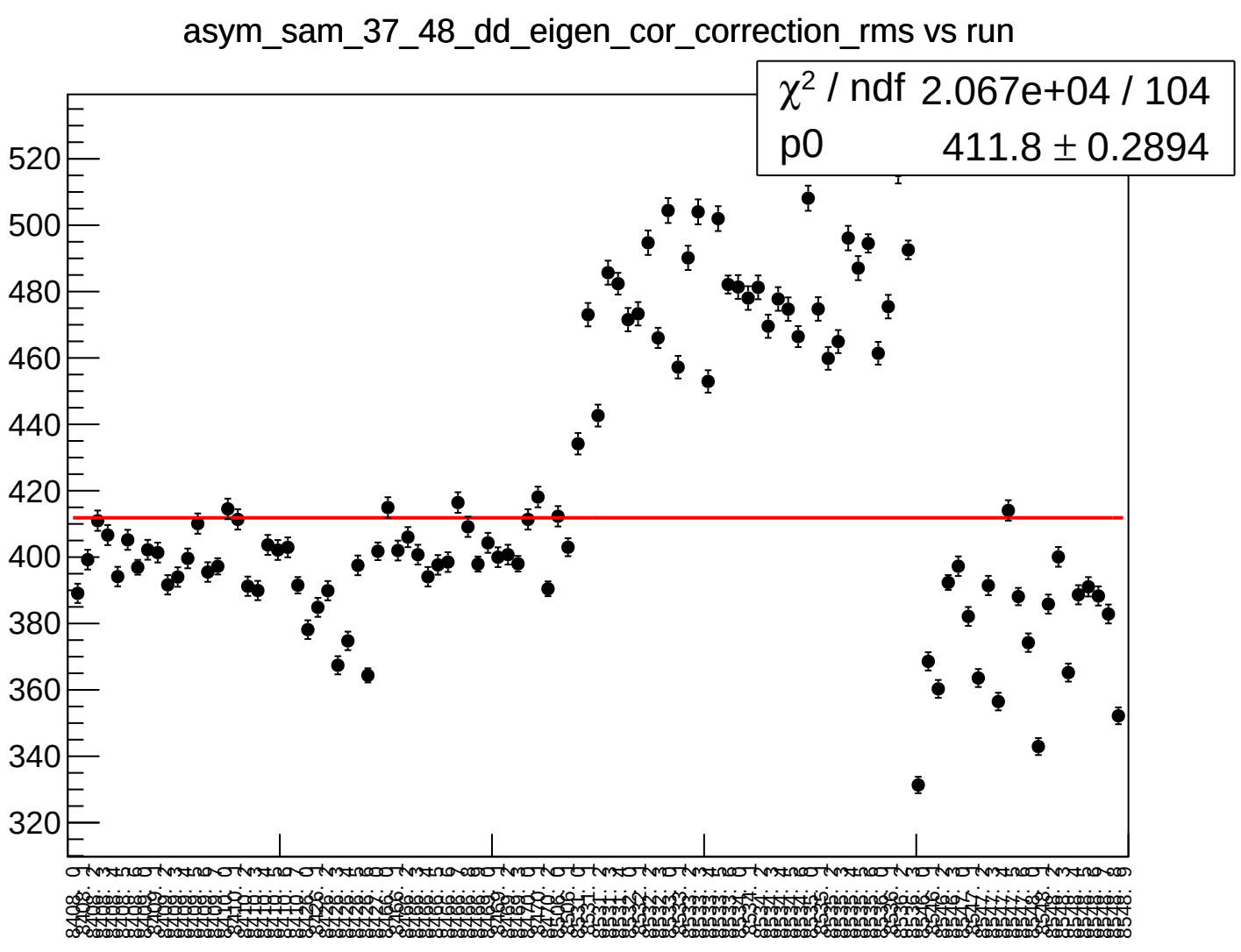

eigen_cor_asym_sam_37_48_dd_mean vs run
χ² / ndf 89.75 / 104
p0 −115.9 ± 55.5
2000
1500
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 105
Mean 80.17
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

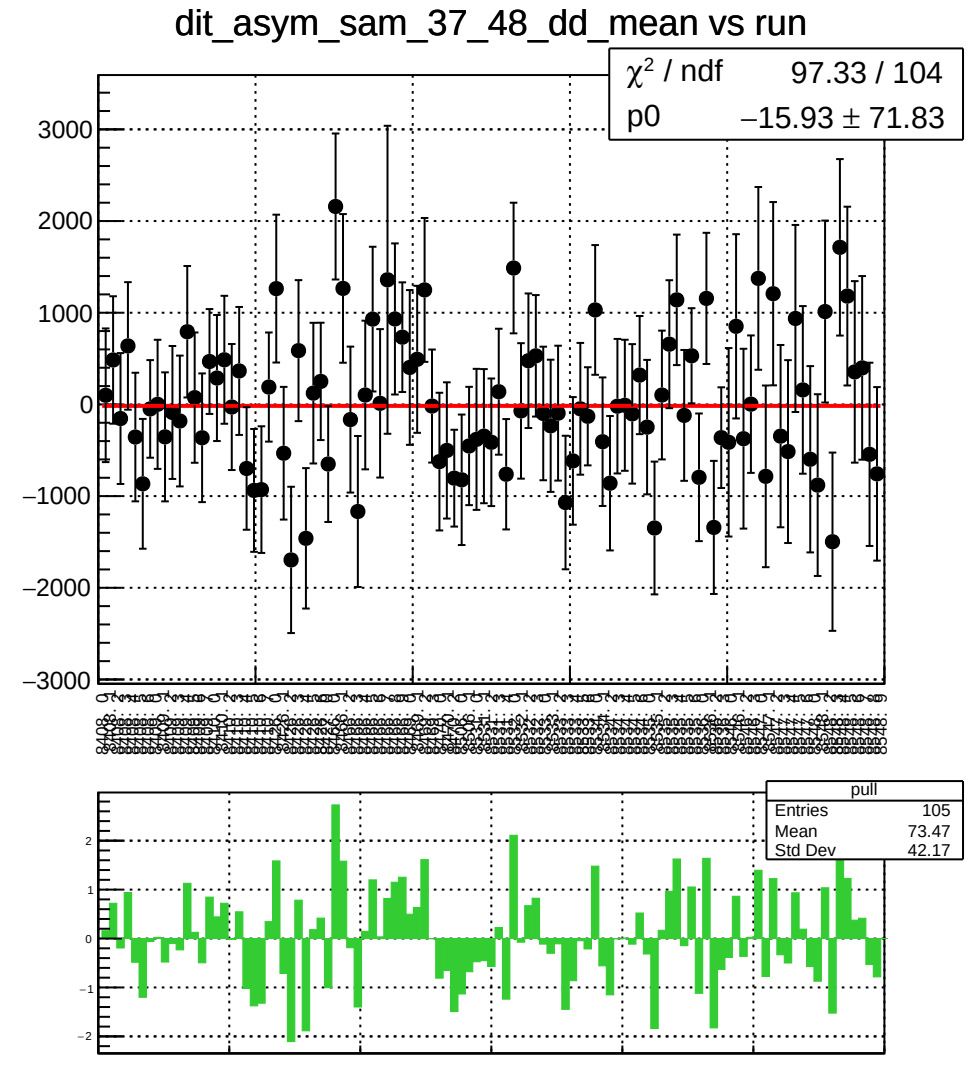

pull1D
Entries 105
Mean 0.007282
Std Dev 0.9245
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

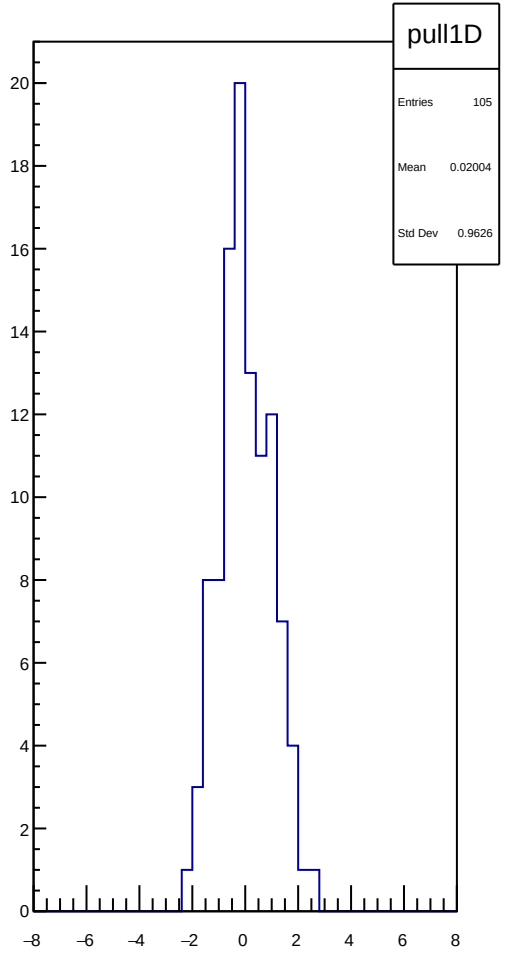

eigen_cor_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 4.354e+04 / 104
p0 55.54 ± 0.03925
140
130
120
110
100
90
80
70
60
50

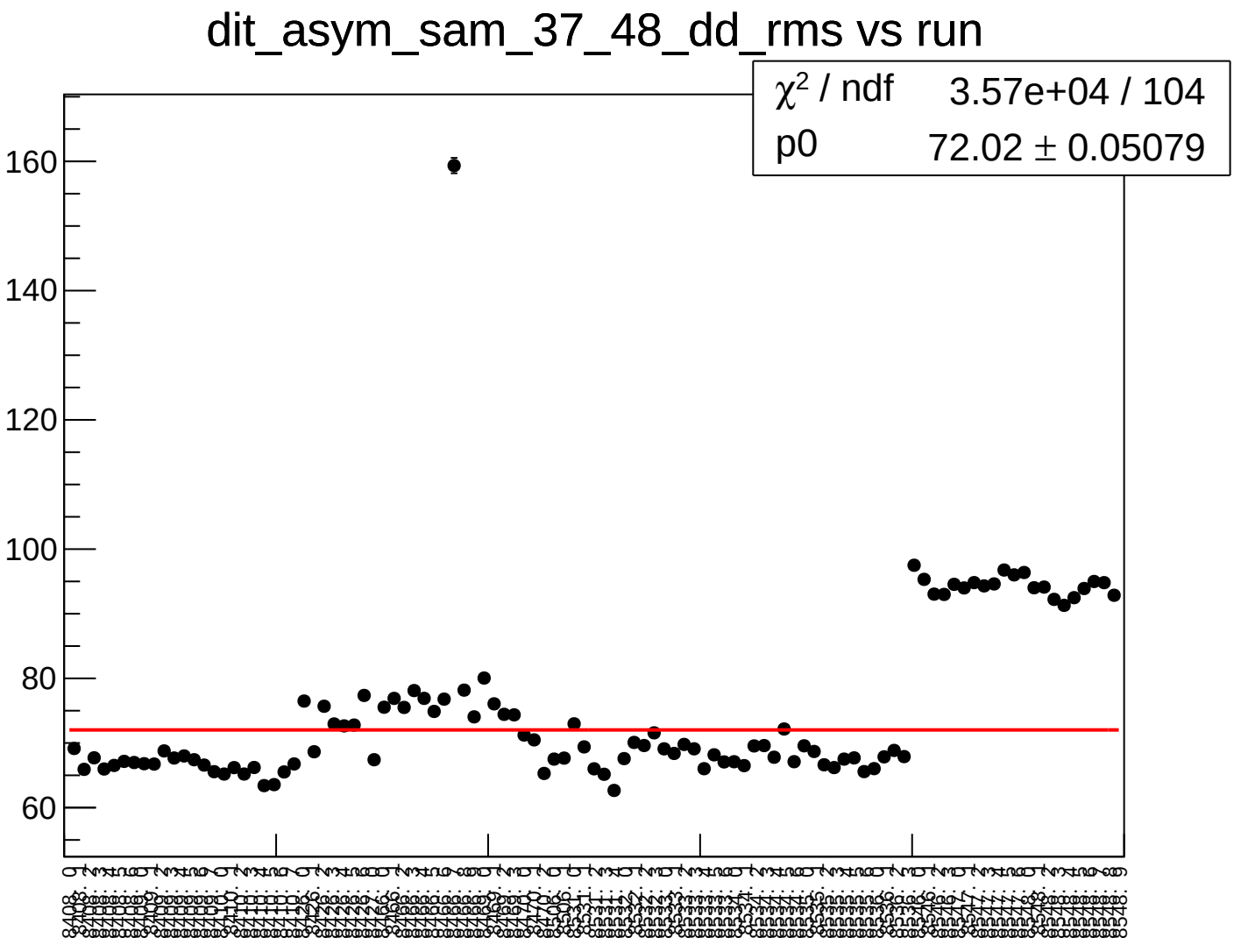

asym_sam_37_48_dd_eigen_cor_correction_mean vs run
χ² / ndf 122.9 / 104
p0 1639 ± 409.2
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 105
Mean 97.38
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

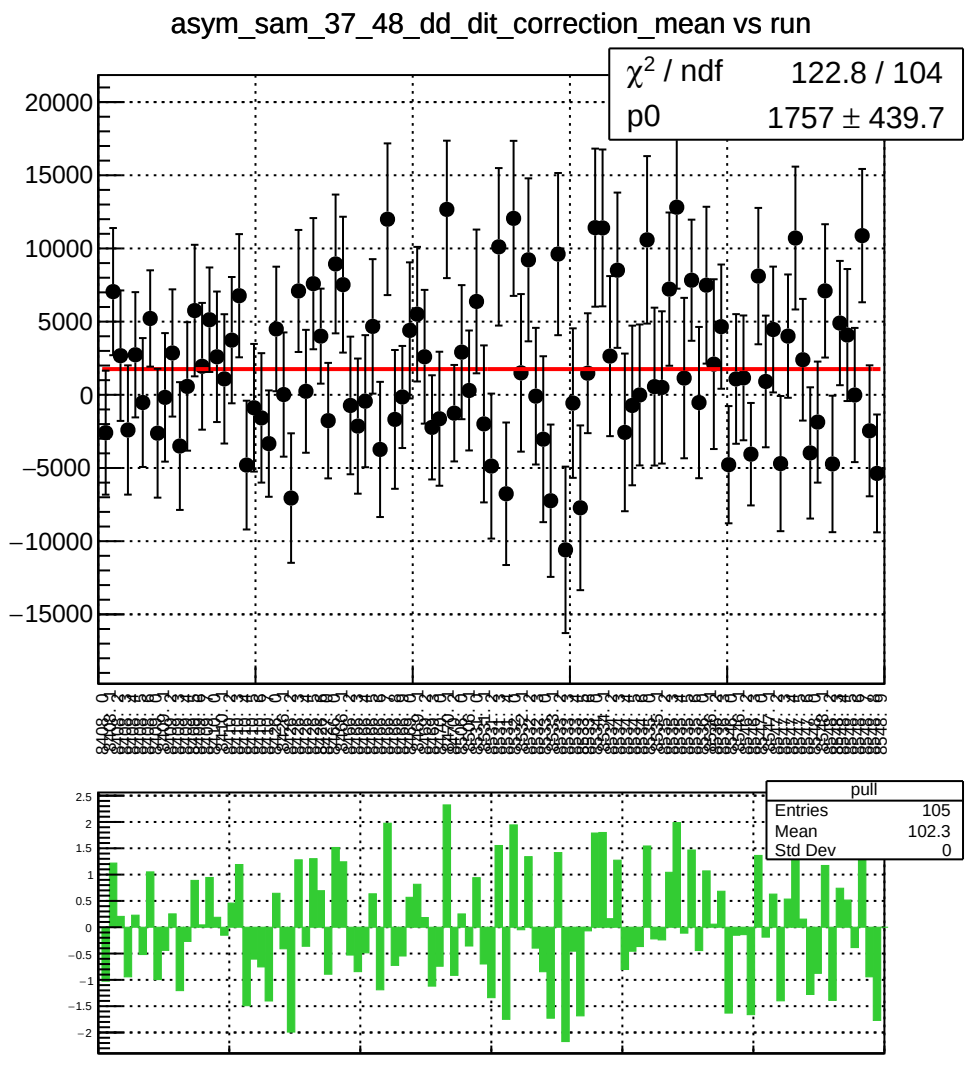

pull1D
Entries 105
Mean 0.02608
Std Dev 1.082
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

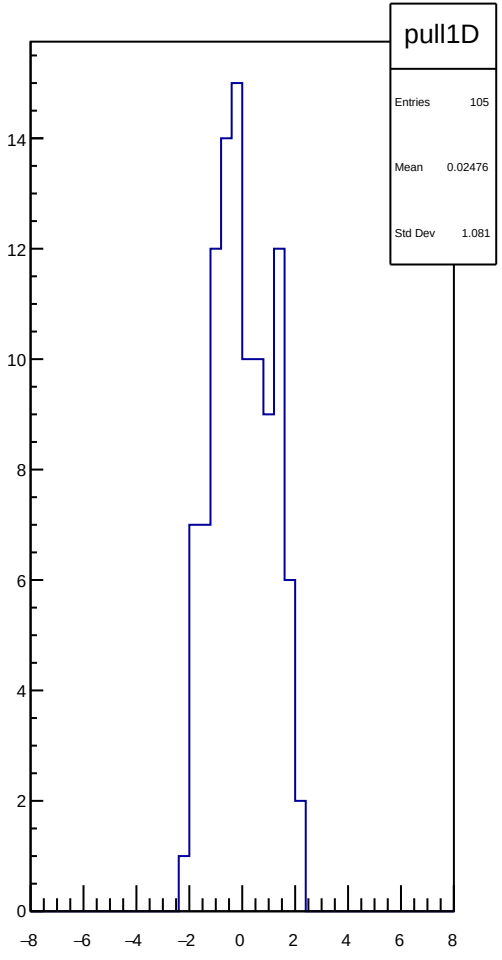

asym_sam_37_48_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.067e+04 / 104
p0 411.8 ± 0.2894
520
500
480
460
440
420
400
380
360
340
320

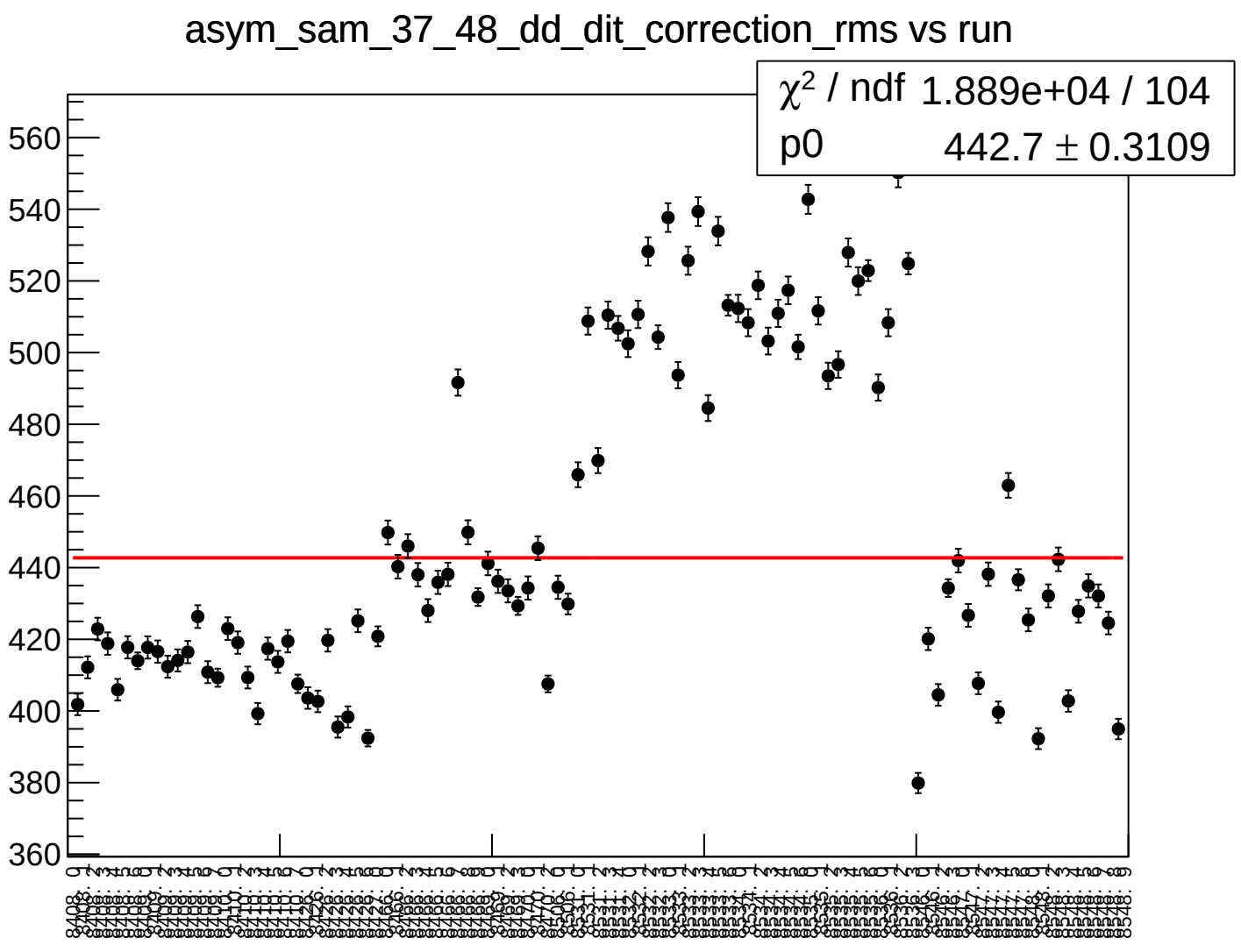

dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 97.33 / 104
p0 −15.93 ± 71.83
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 105
Mean 73.47
Std Dev 42.17
2
1
0
−1
−2

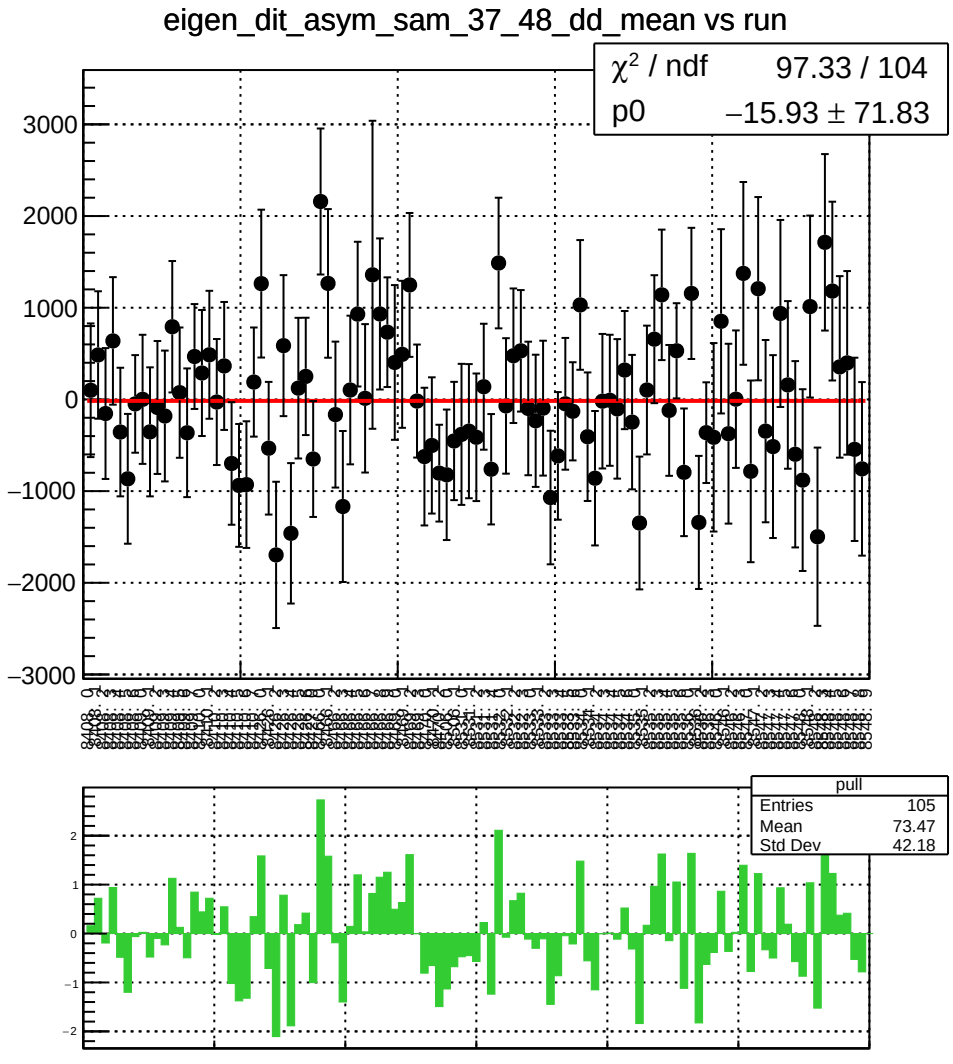

pull1D
Entries 105
Mean 0.02004
Std Dev 0.9626
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

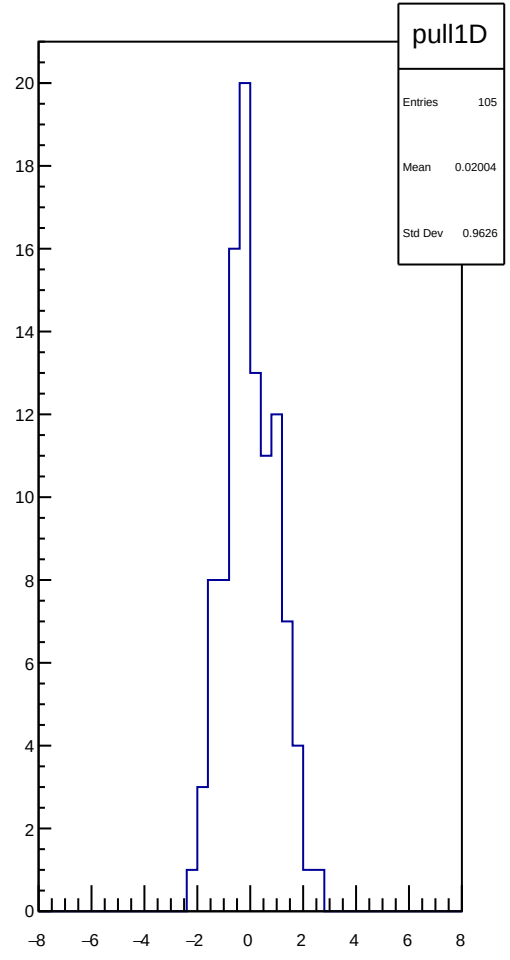

dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 3.57e+04 / 104
p0 72.02 ± 0.05079
160
140
120
100
80
60

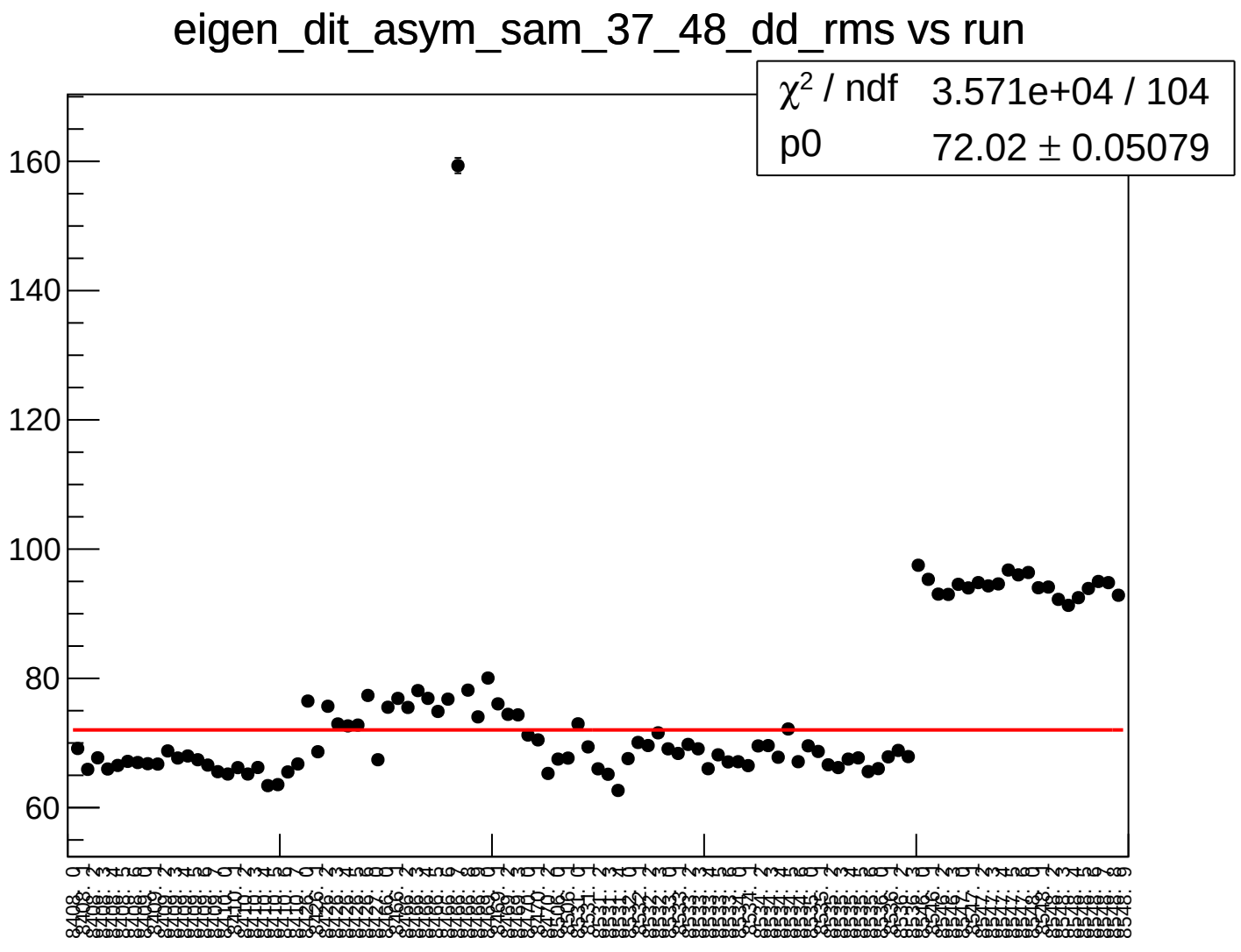

asym_sam_37_48_dd_dit_correction_mean vs run
χ² / ndf 122.8 / 104
p0 1757 ± 439.7
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 105
Mean 102.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

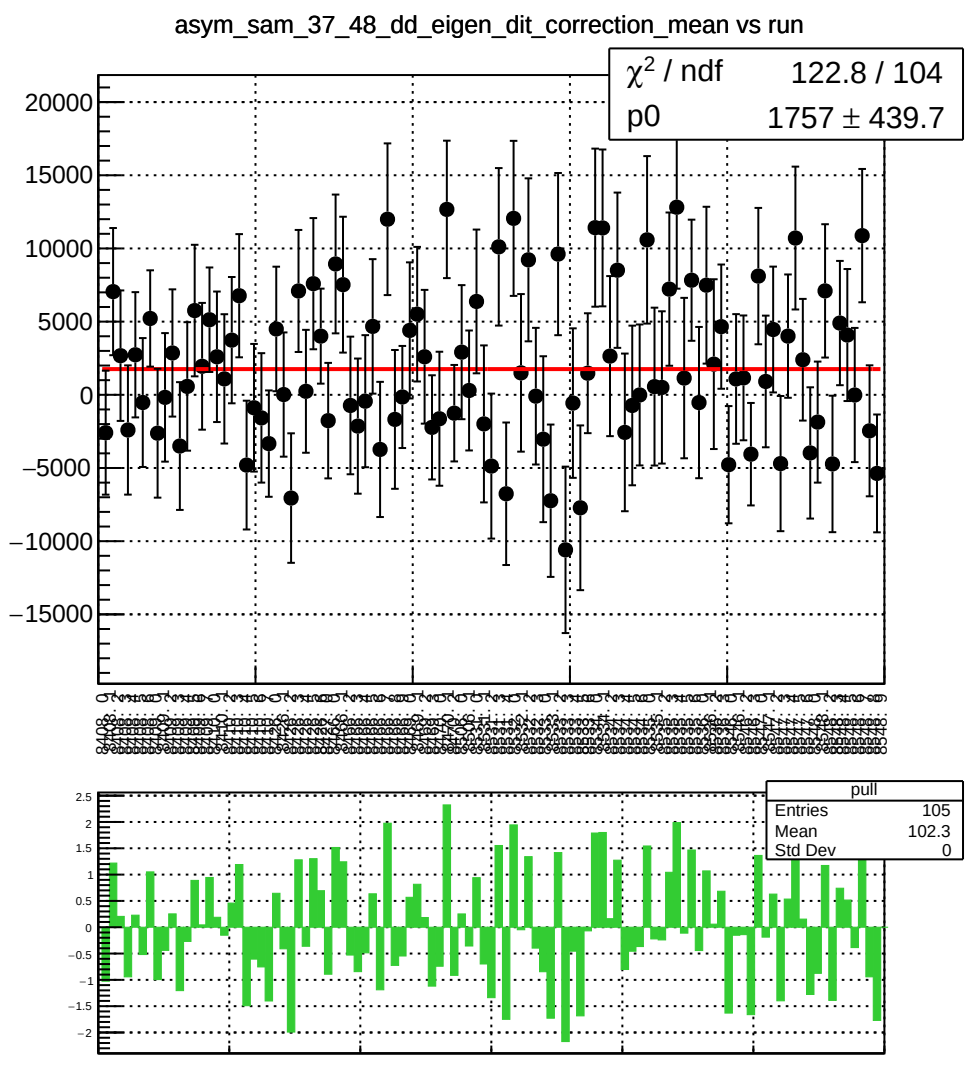

pull1D
Entries 105
Mean 0.02476
Std Dev 1.081
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

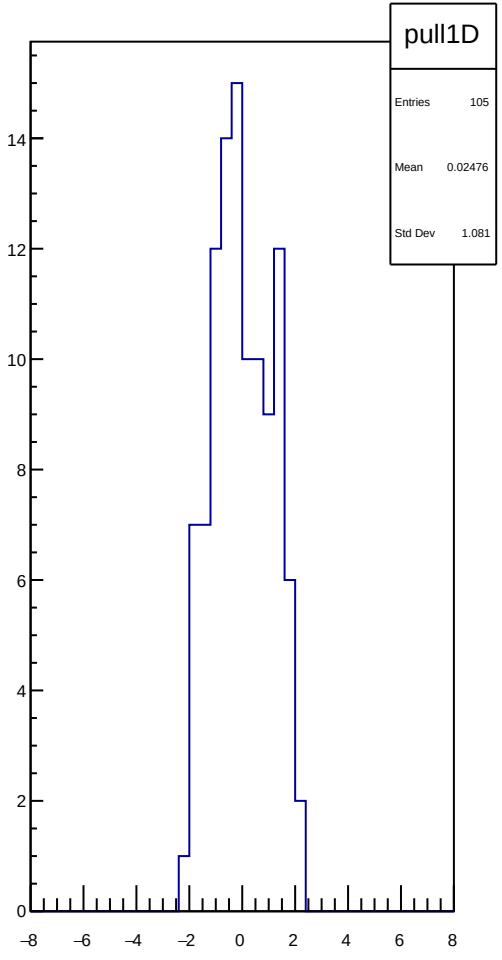

asym_sam_37_48_dd_dit_correction_rms vs run
χ² / ndf 1.889e+04 / 104
p0 442.7 ± 0.3109
560
540
520
500
480
460
440
420
400
380
360

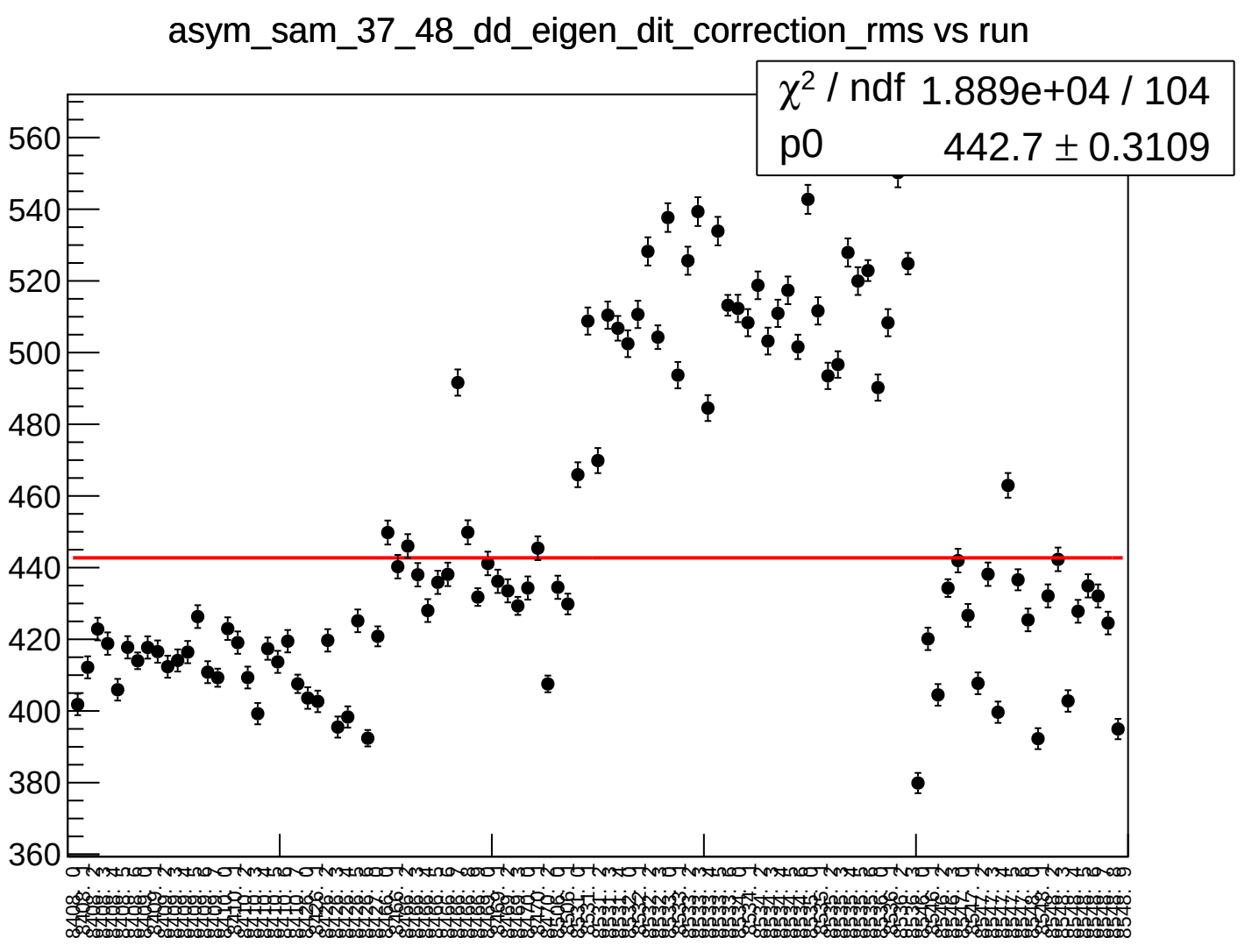

eigen_dit_asym_sam_37_48_dd_mean vs run
χ² / ndf 97.33 / 104
p0 −15.93 ± 71.83
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 105
Mean 73.47
Std Dev 42.18
2
1
0
−1
−2

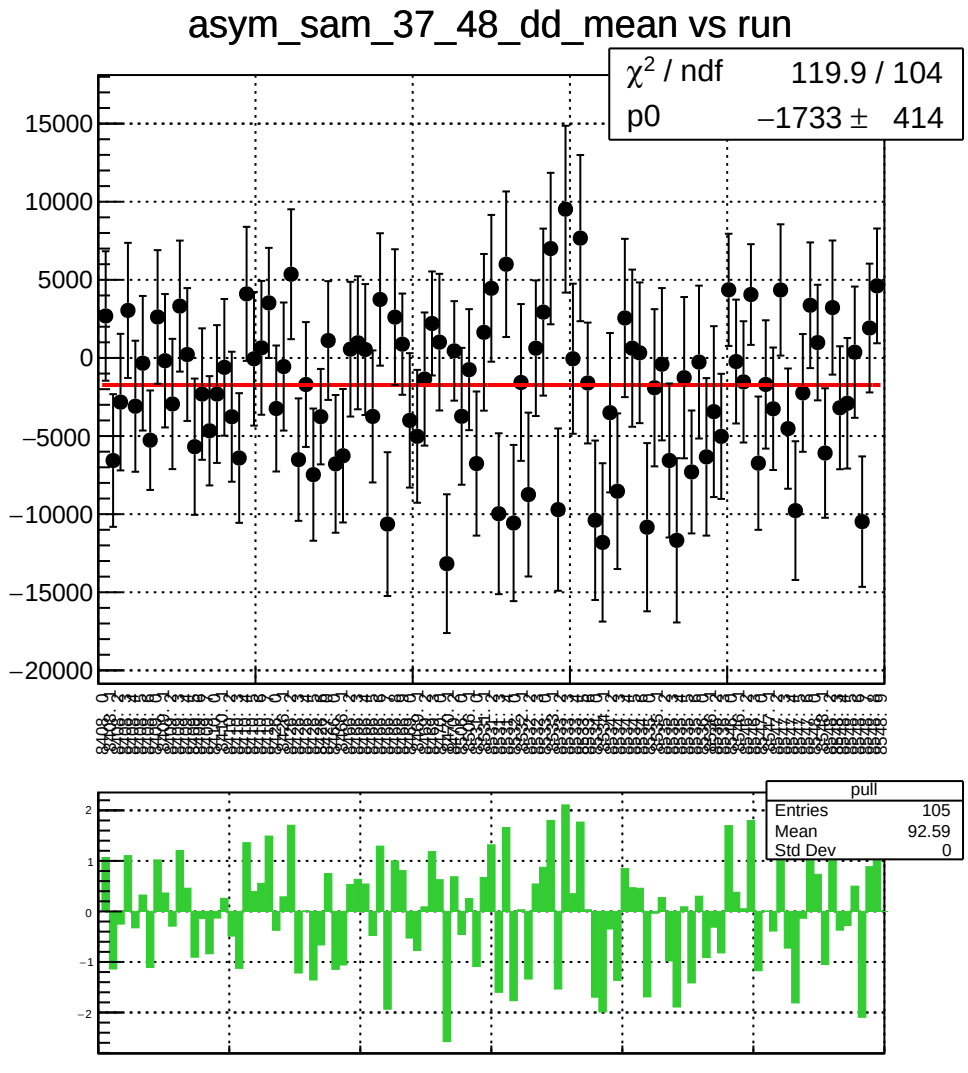

pull1D
Entries 105
Mean 0.02004
Std Dev 0.9626
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

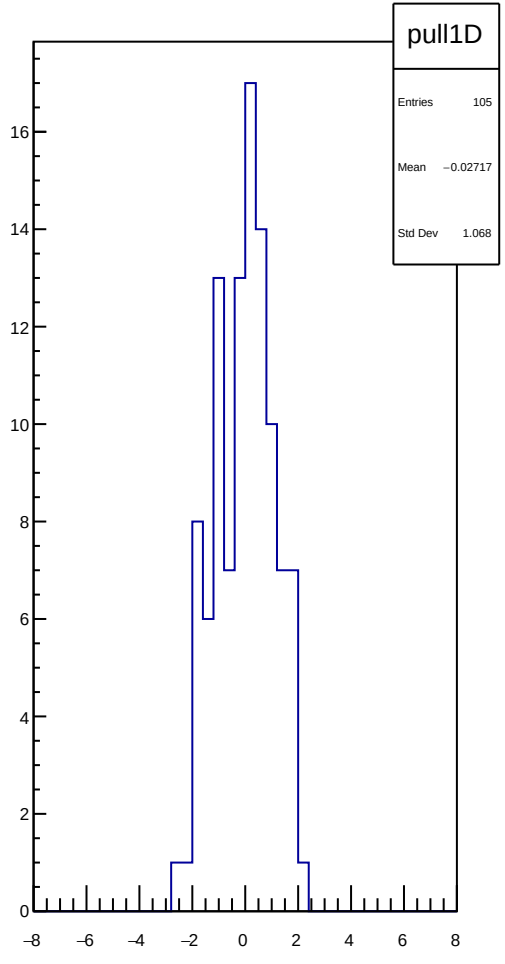

eigen_dit_asym_sam_37_48_dd_rms vs run
χ² / ndf 3.571e+04 / 104
p0 72.02 ± 0.05079
160
140
120
100
80
60

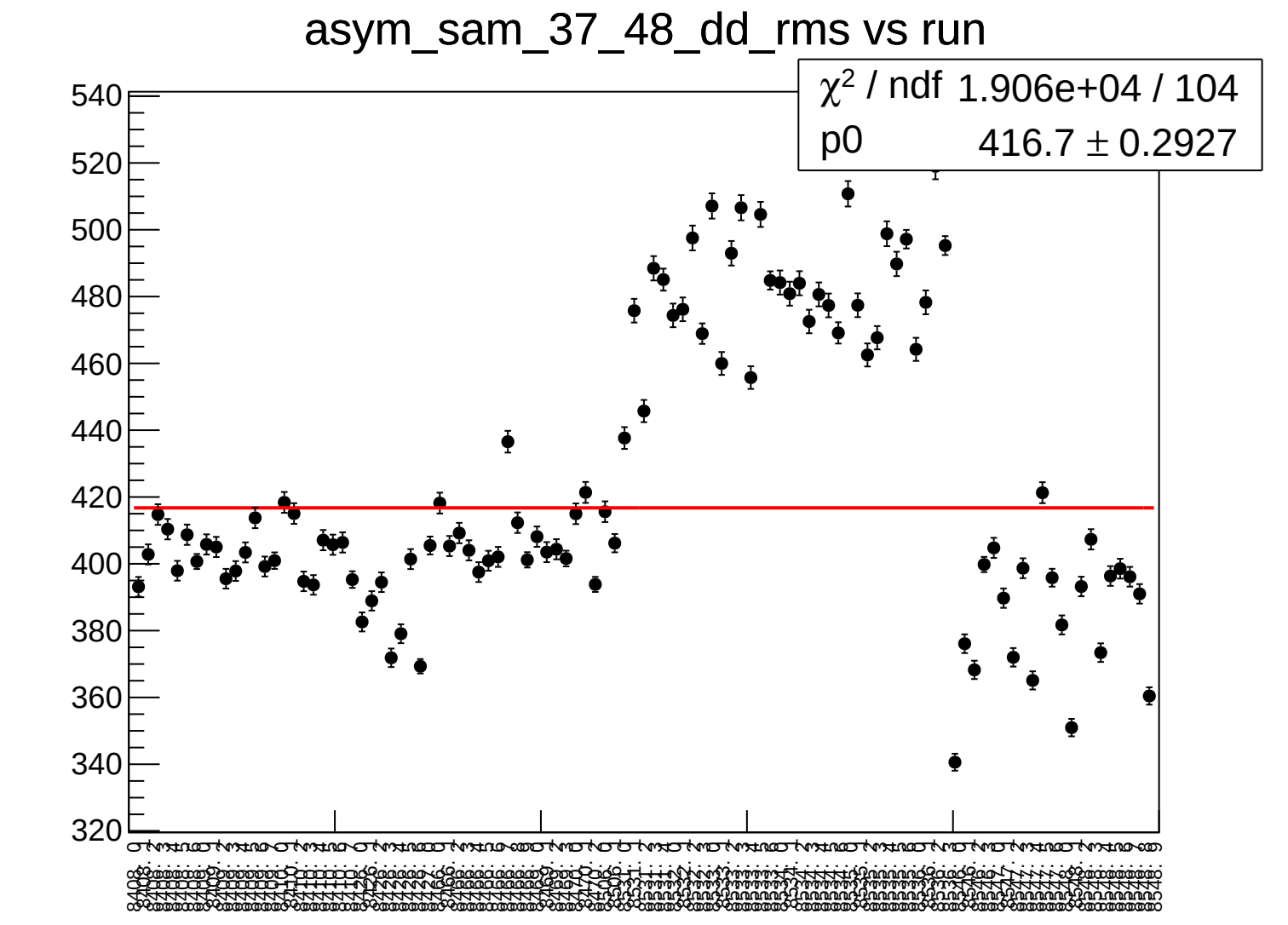

asym_sam_37_48_dd_eigen_dit_correction_mean vs run
χ² / ndf 122.8 / 104
p0 1757 ± 439.7
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 105
Mean 102.3
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

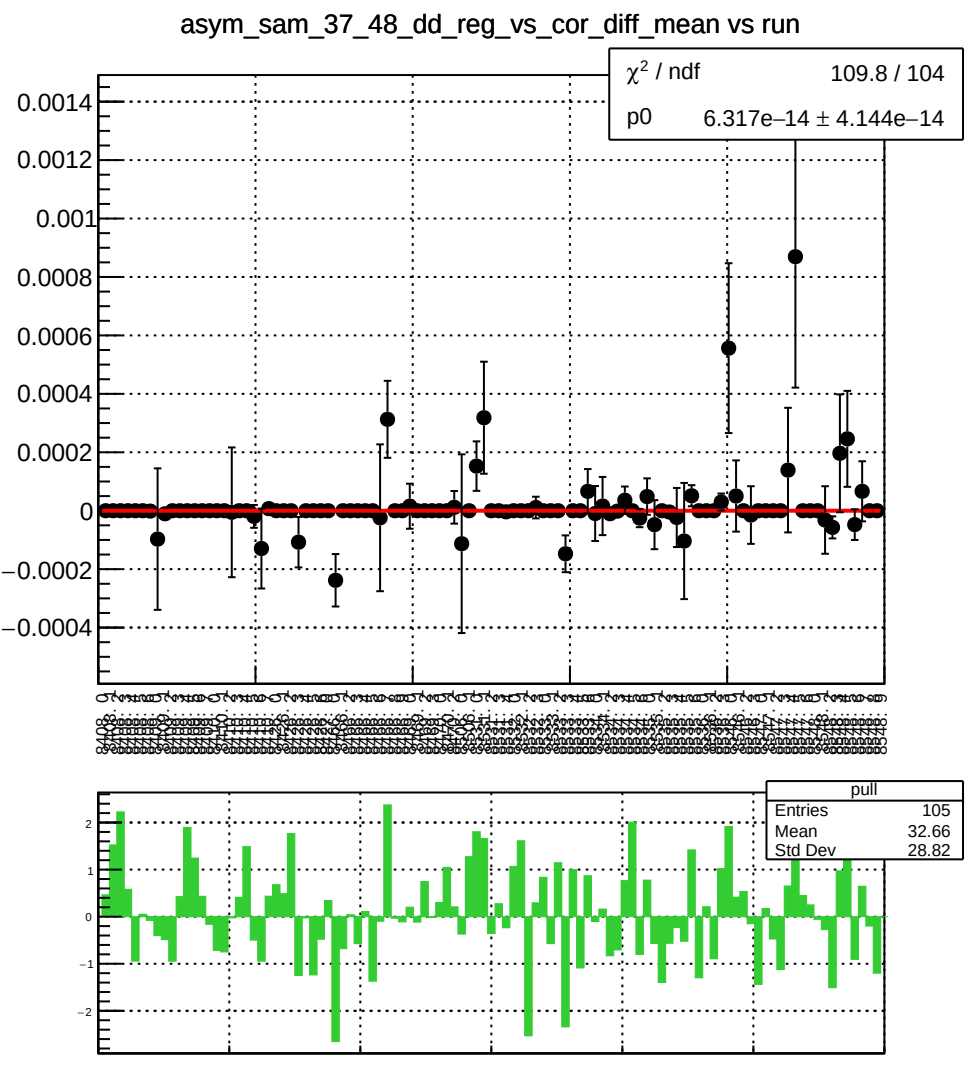

pull1D
Entries 105
Mean 0.02476
Std Dev 1.081
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

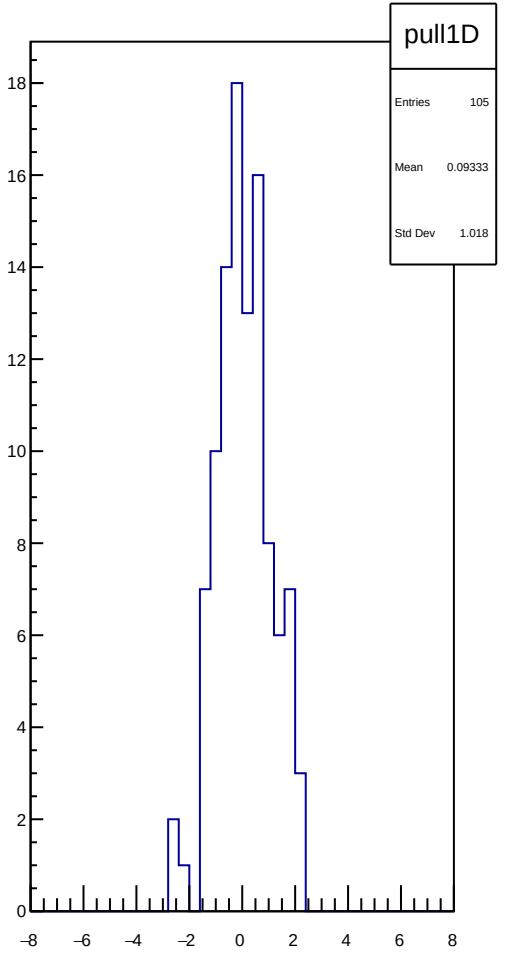

asym_sam_37_48_dd_eigen_dit_correction_rms vs run
χ² / ndf 1.889e+04 / 104
p0 442.7 ± 0.3109
560
540
520
500
480
460
440
420
400
380
360

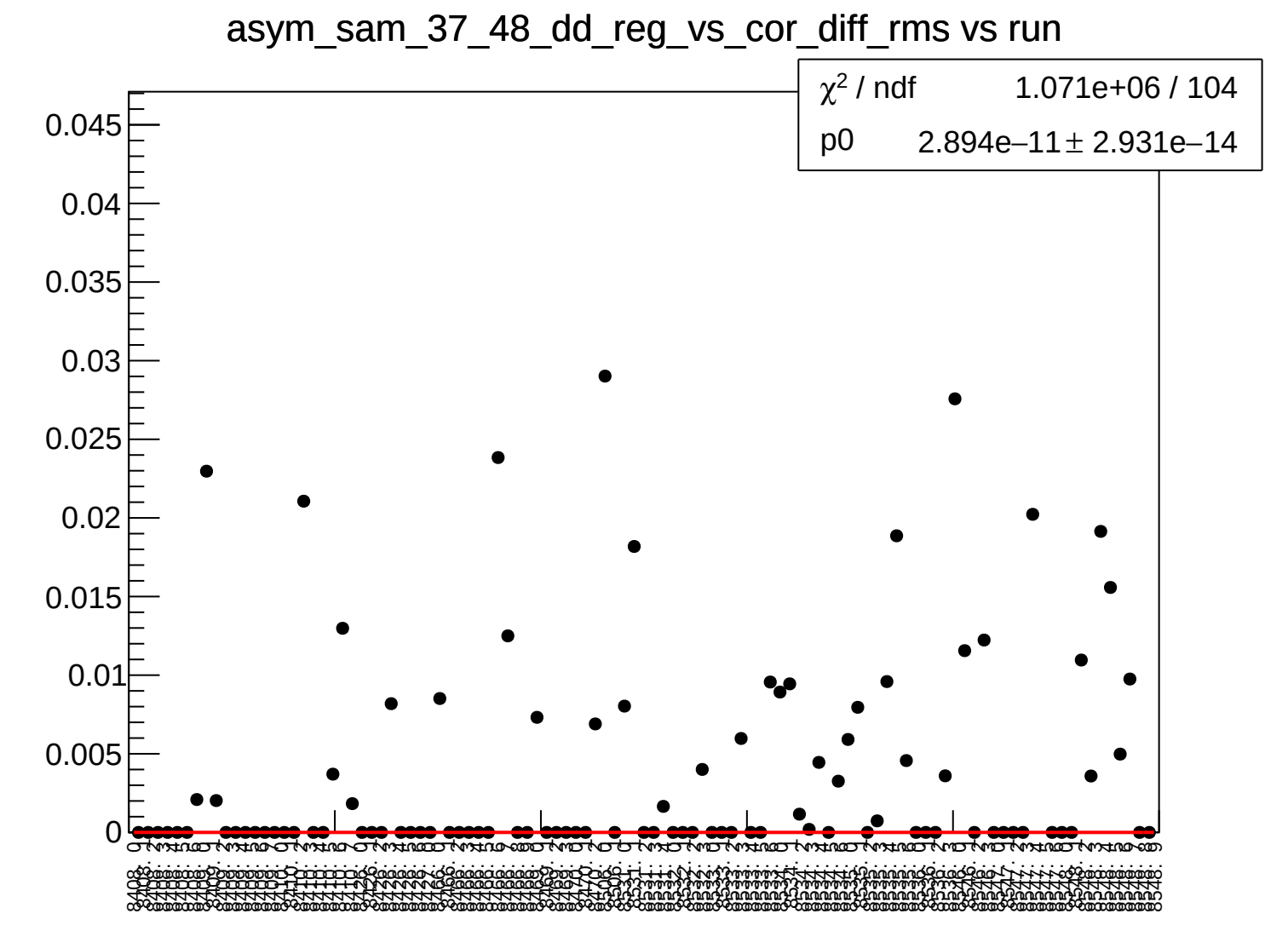

asym_sam_37_48_dd_mean vs run
χ² / ndf 119.9 / 104
p0 −1733 ± 414
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 105
Mean 92.59
Std Dev 0
2
1
0
−1
−2

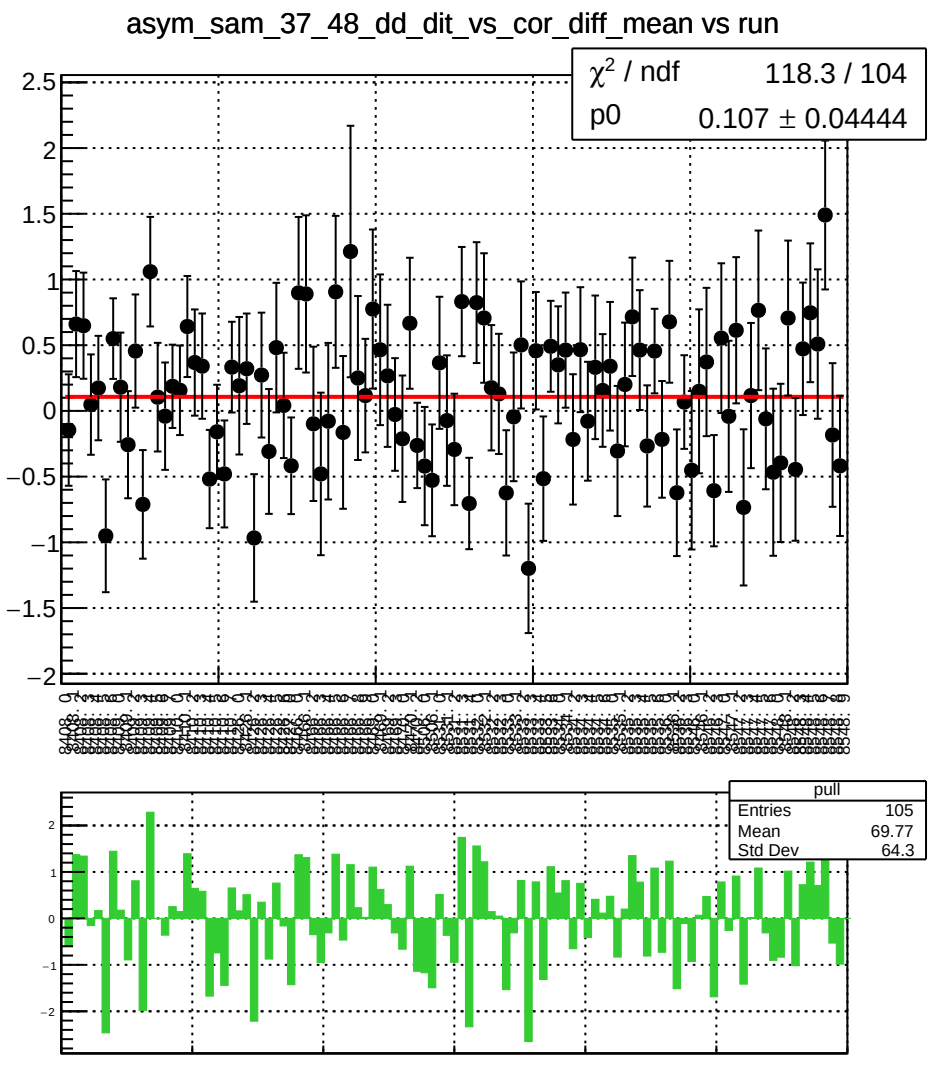

pull1D
Entries 105
Mean −0.02717
Std Dev 1.068
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

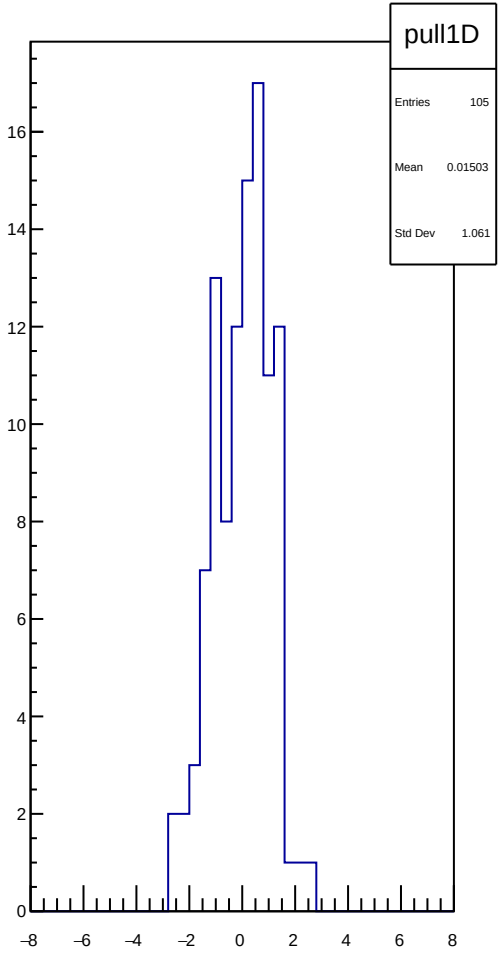

asym_sam_37_48_dd_rms vs run
χ^2 / ndf 1.906e+04 / 104
p0 416.7 ± 0.2927
540
520
500
480
460
440
420
400
380
360
340
320

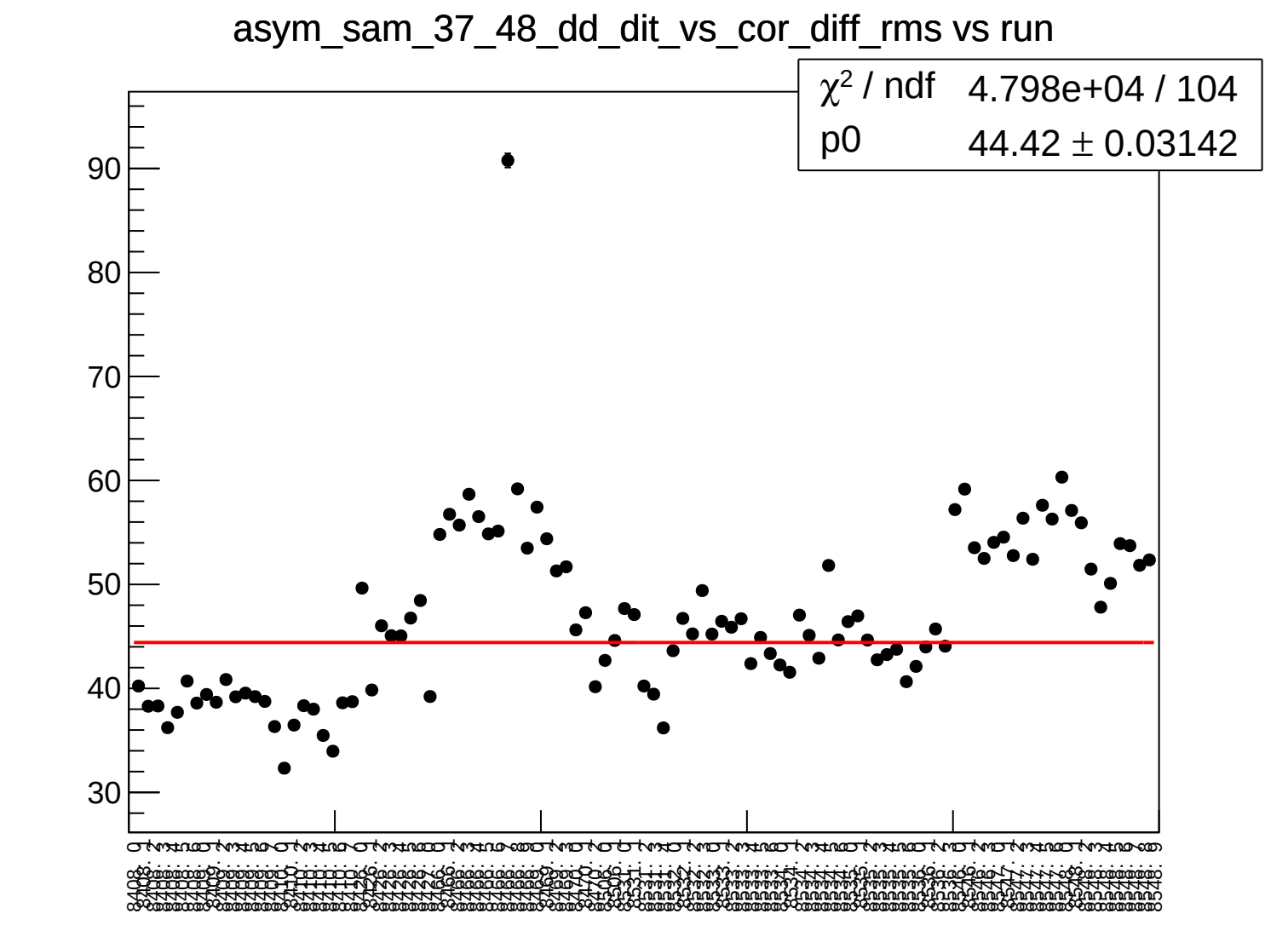

asym_sam_37_48_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 109.8 / 104
p0 6.317e−14 ± 4.144e−14
0.0014
0.0012
0.001
0.0008
0.0006
0.0004
0.0002
0
−0.0002
−0.0004
pull
Entries 105
Mean 32.66
Std Dev 28.82
2
1
0
−1
−2

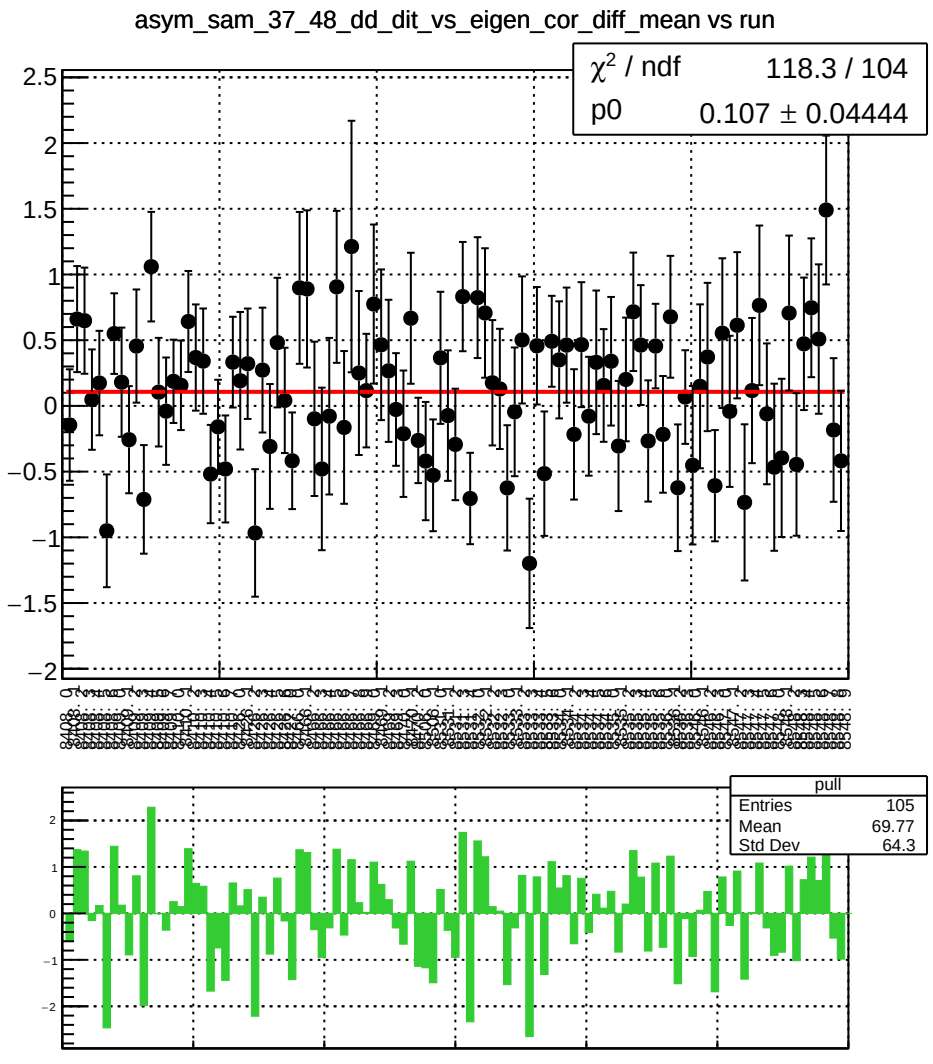

pull1D
Entries 105
Mean 0.09333
Std Dev 1.018
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

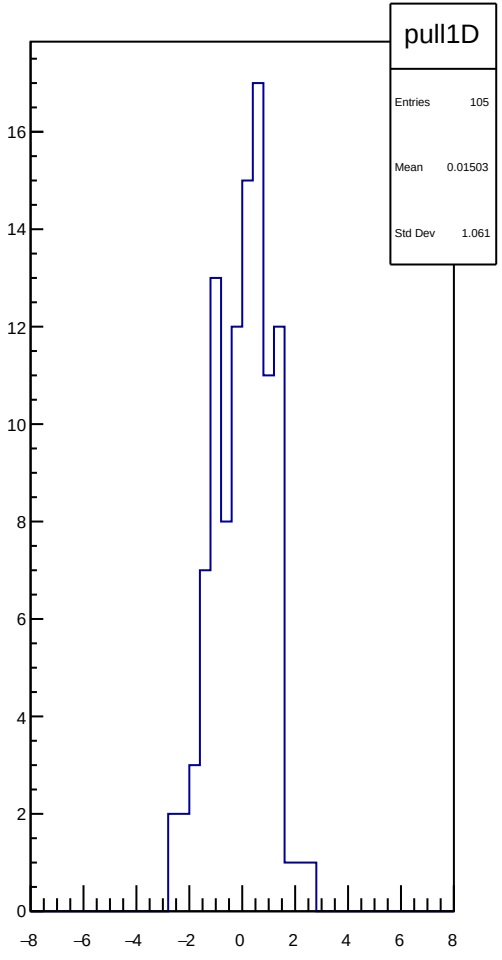

asym_sam_37_48_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.071e+06 / 104
p0 2.894e−11 ± 2.931e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

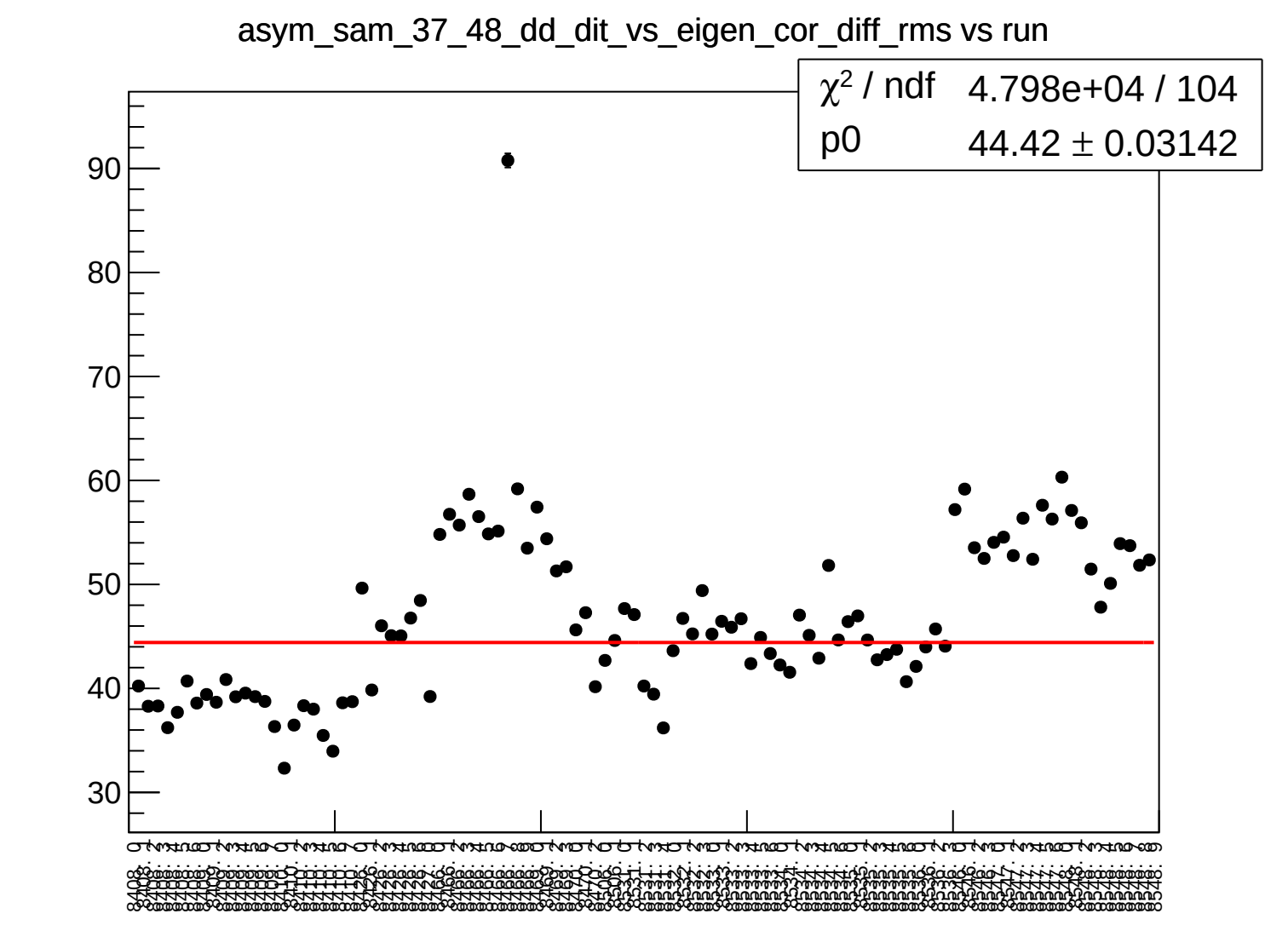

asym_sam_37_48_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 118.3 / 104
p0 0.107 ± 0.04444
pull
Entries 105
Mean 69.77
Std Dev 64.3

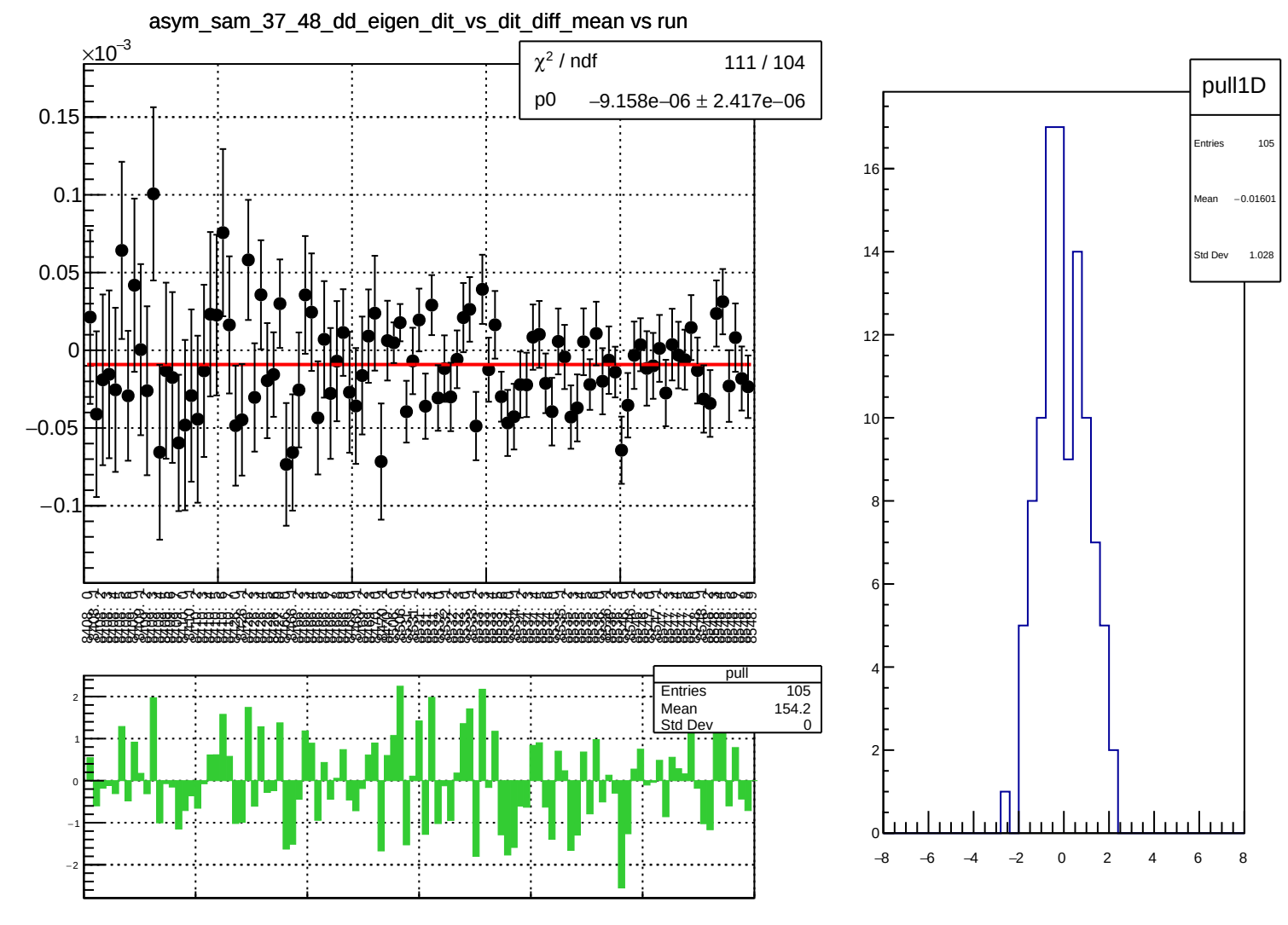

pull1D
Entries 105
Mean 0.01503
Std Dev 1.061

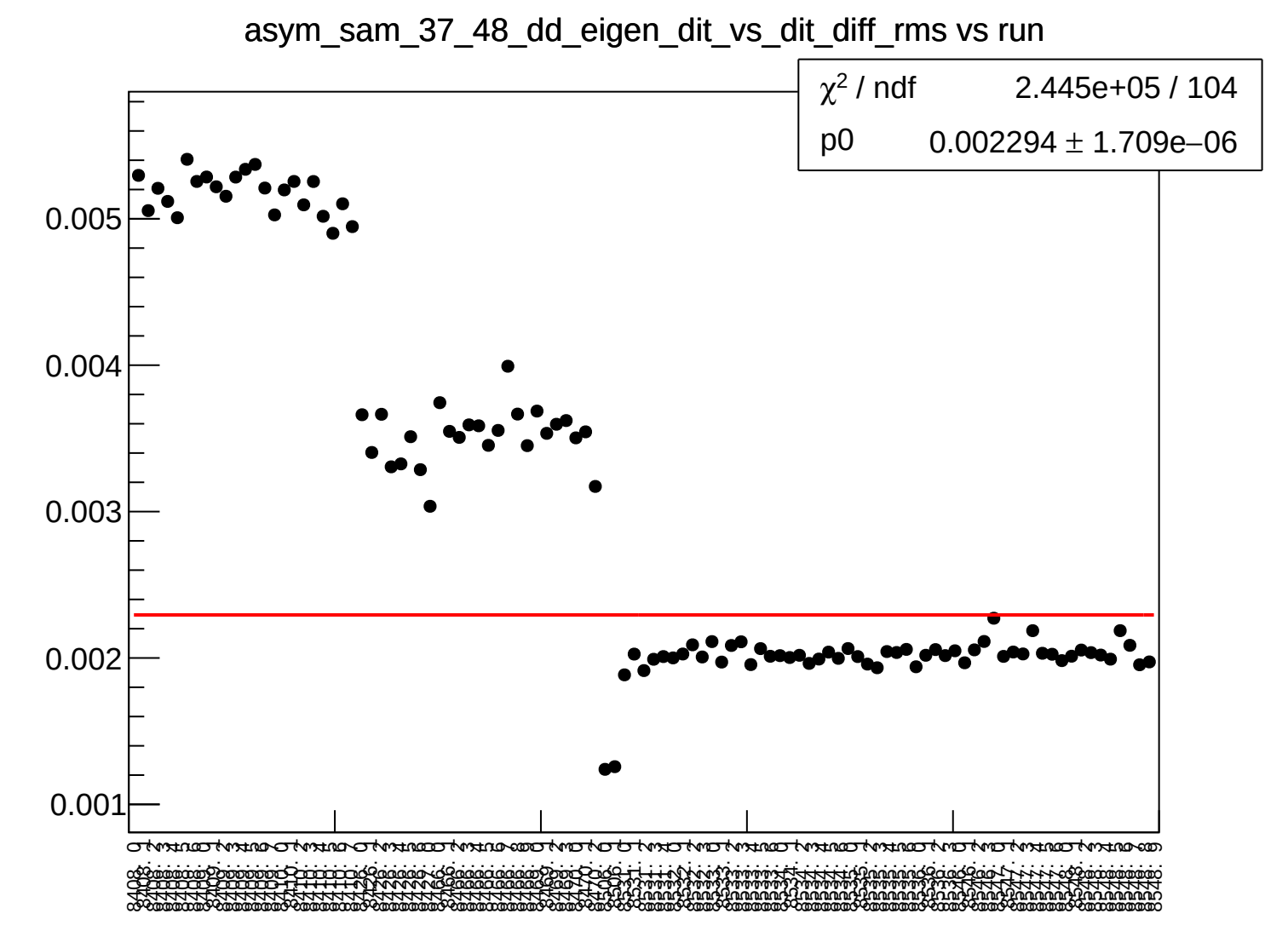

asym_sam_37_48_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 4.798e+04 / 104
p0 44.42 ± 0.03142
90
80
70
60
50
40
30

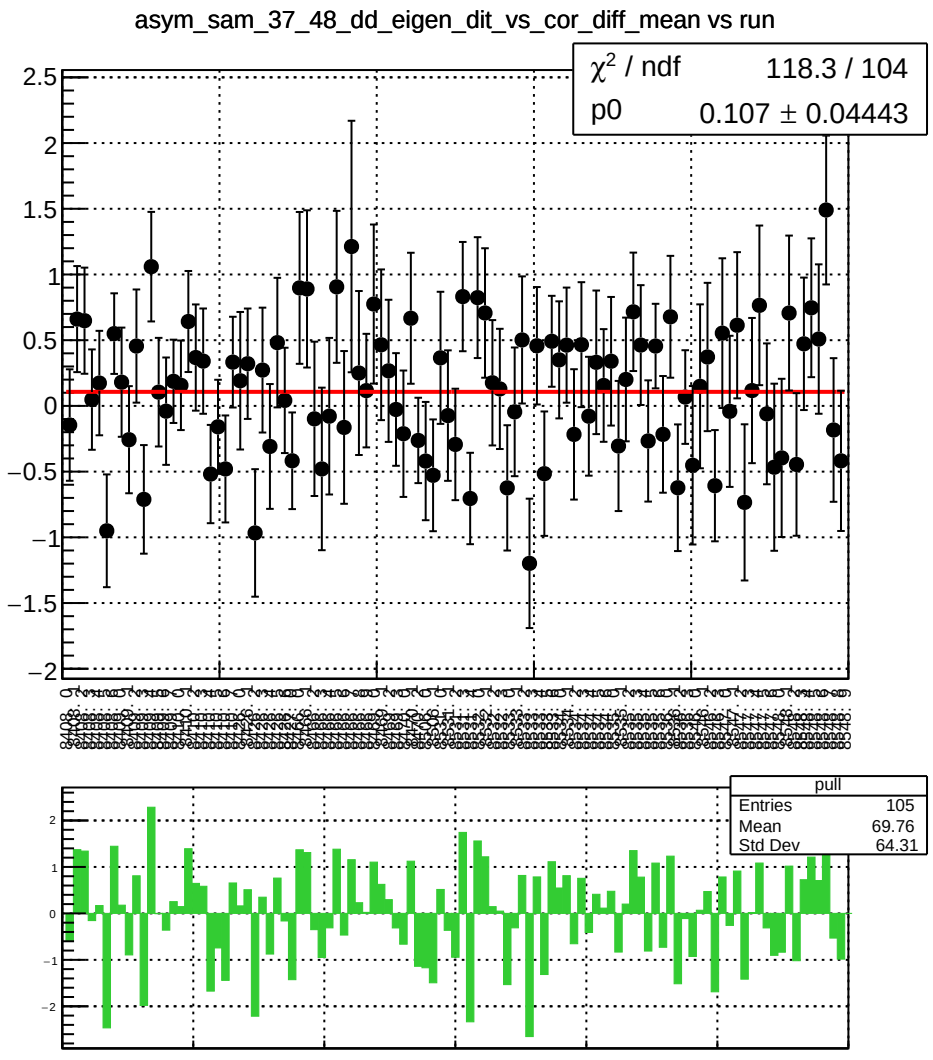

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 118.3 / 104
p0 0.107 ± 0.04444
pull
Entries 105
Mean 69.77
Std Dev 64.3

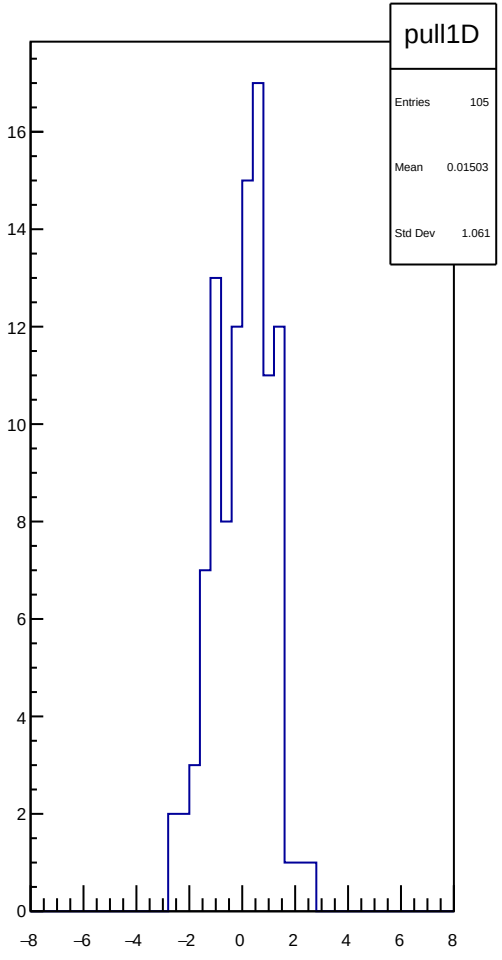

pull1D
Entries 105
Mean 0.01503
Std Dev 1.061

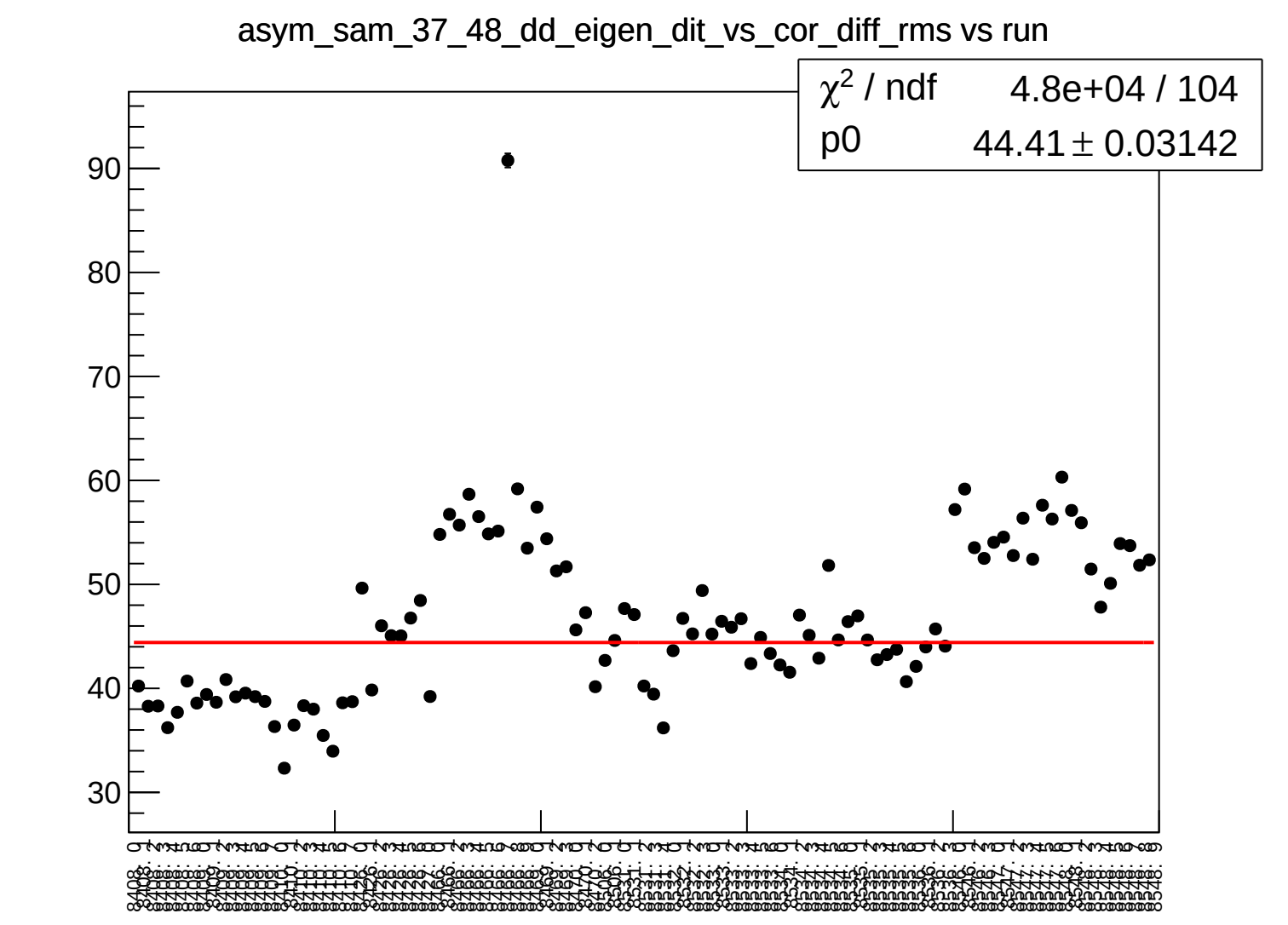

asym_sam_37_48_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.798e+04 / 104
p0 44.42 ± 0.03142
90
80
70
60
50
40
30

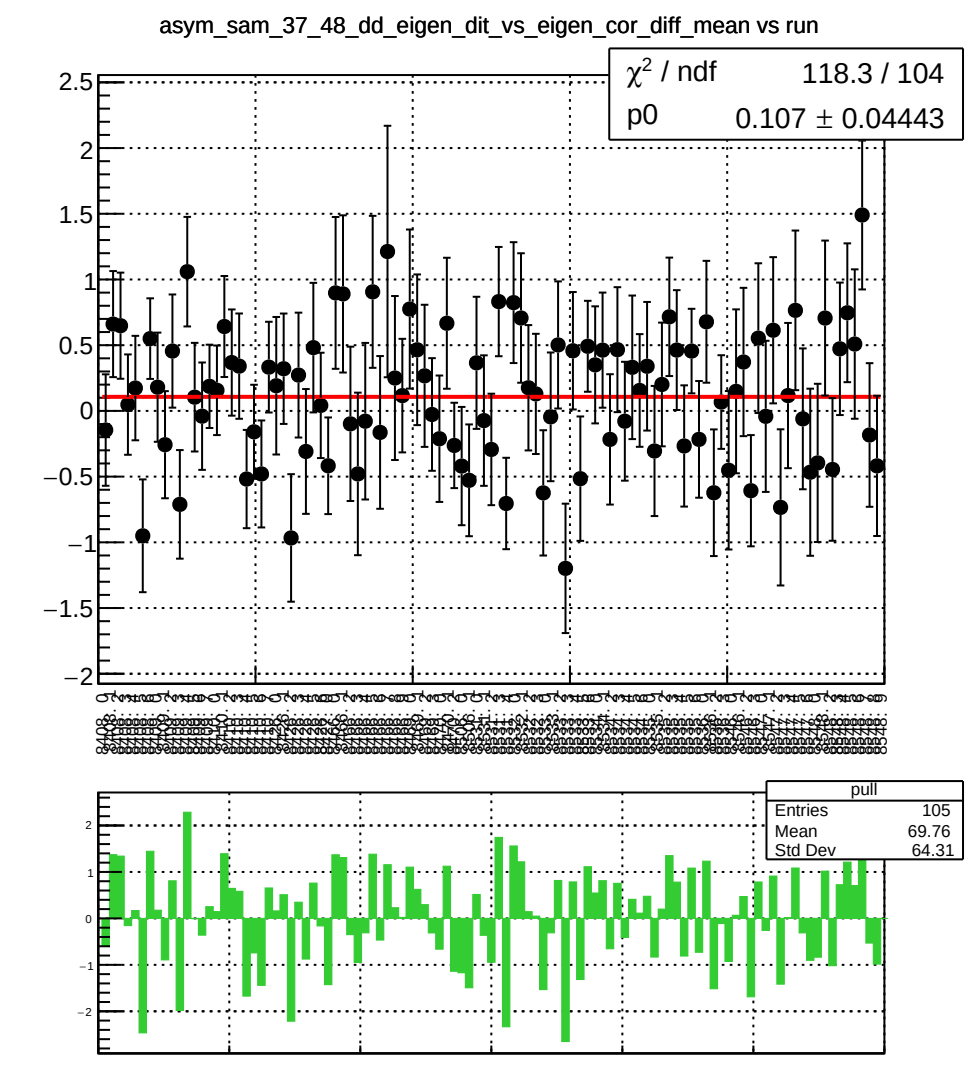

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 111 / 104
p0 −9.158e−06 ± 2.417e−06
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 105
Mean 154.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.01601
Std Dev 1.028
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

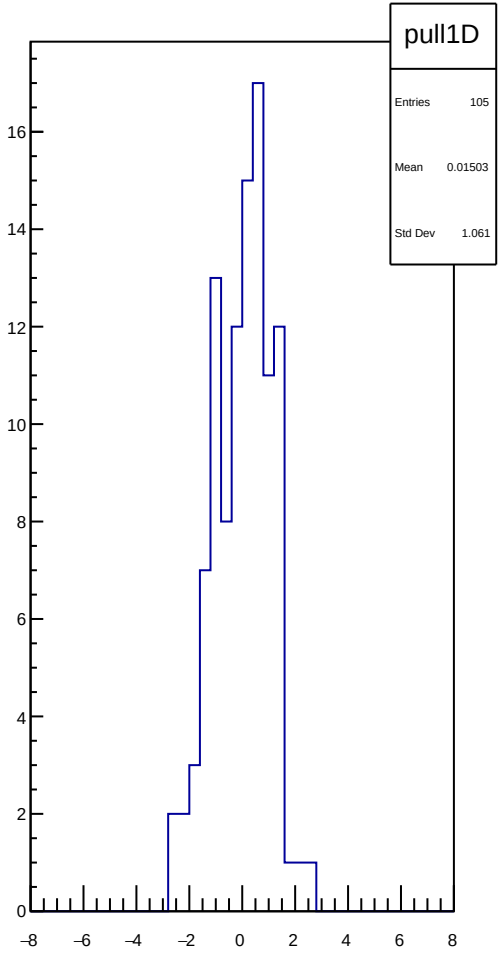

asym_sam_37_48_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.445e+05 / 104
p0 0.002294 ± 1.709e−06
0.005
0.004
0.003
0.002
0.001

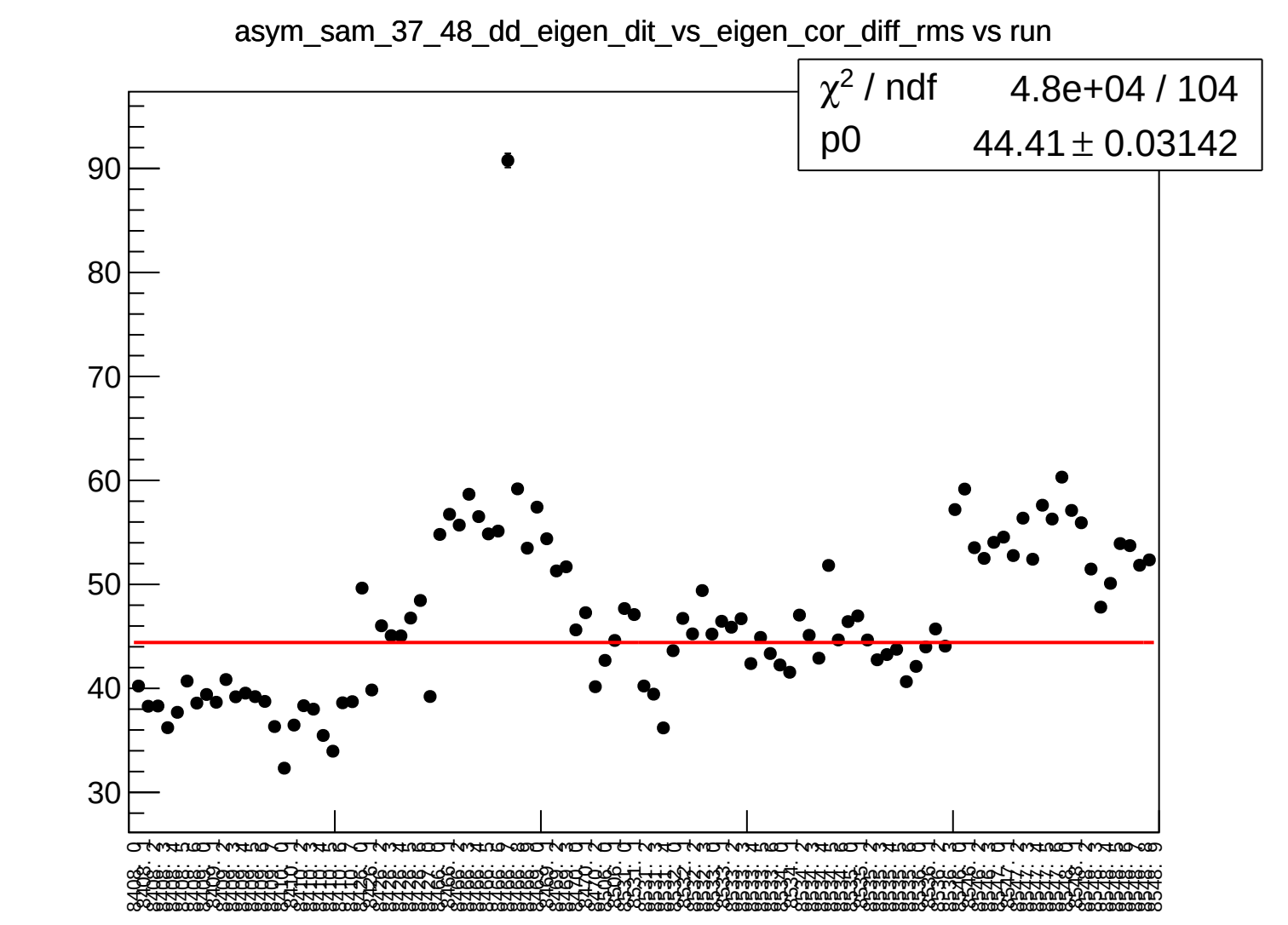

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 118.3 / 104
p0 0.107 ± 0.04443
pull
Entries 105
Mean 69.76
Std Dev 64.31

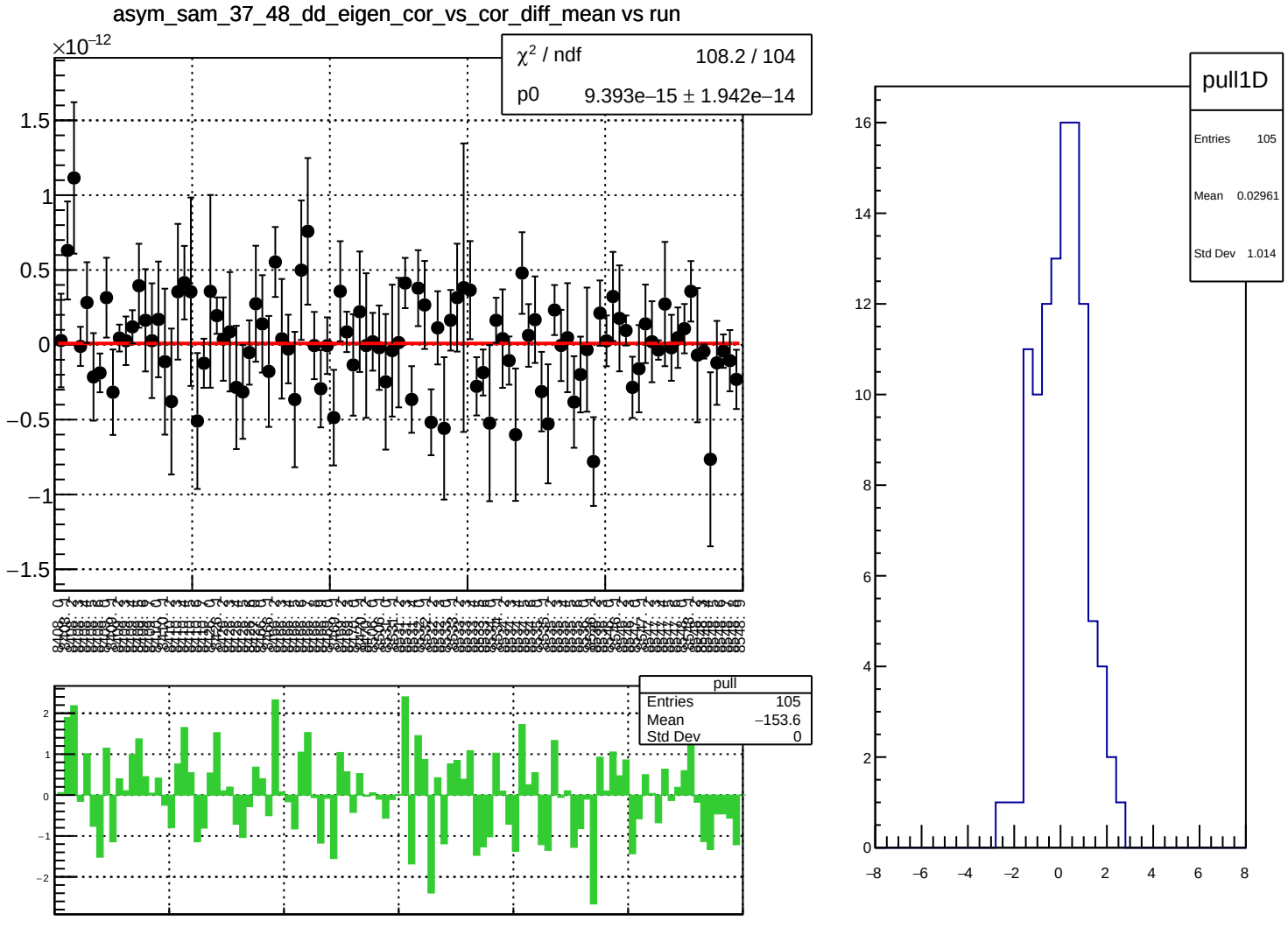

pull1D
Entries 105
Mean 0.01503
Std Dev 1.061

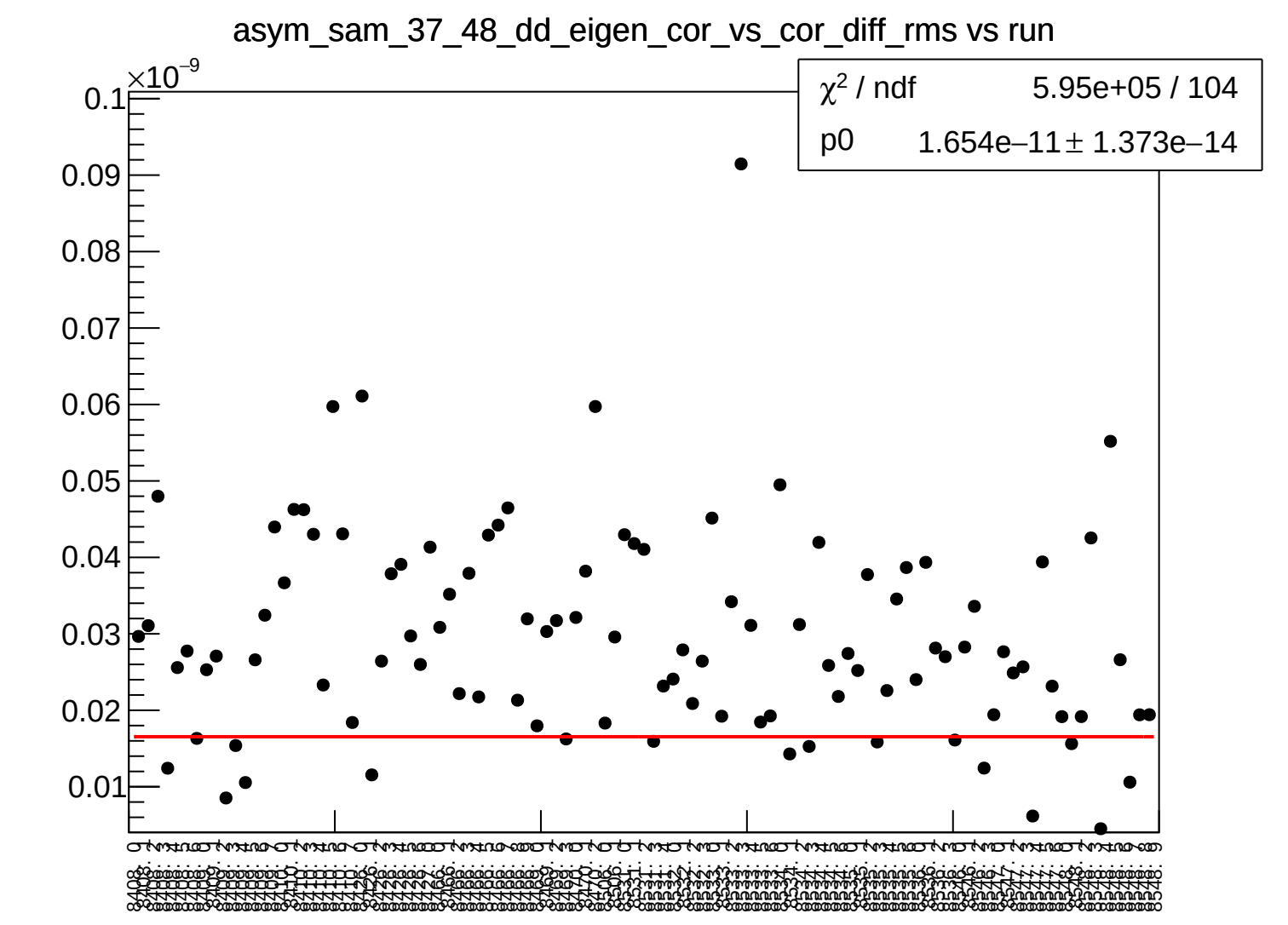

asym_sam_37_48_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 4.8e+04 / 104
p0 44.41 ± 0.03142
90
80
70
60
50
40
30

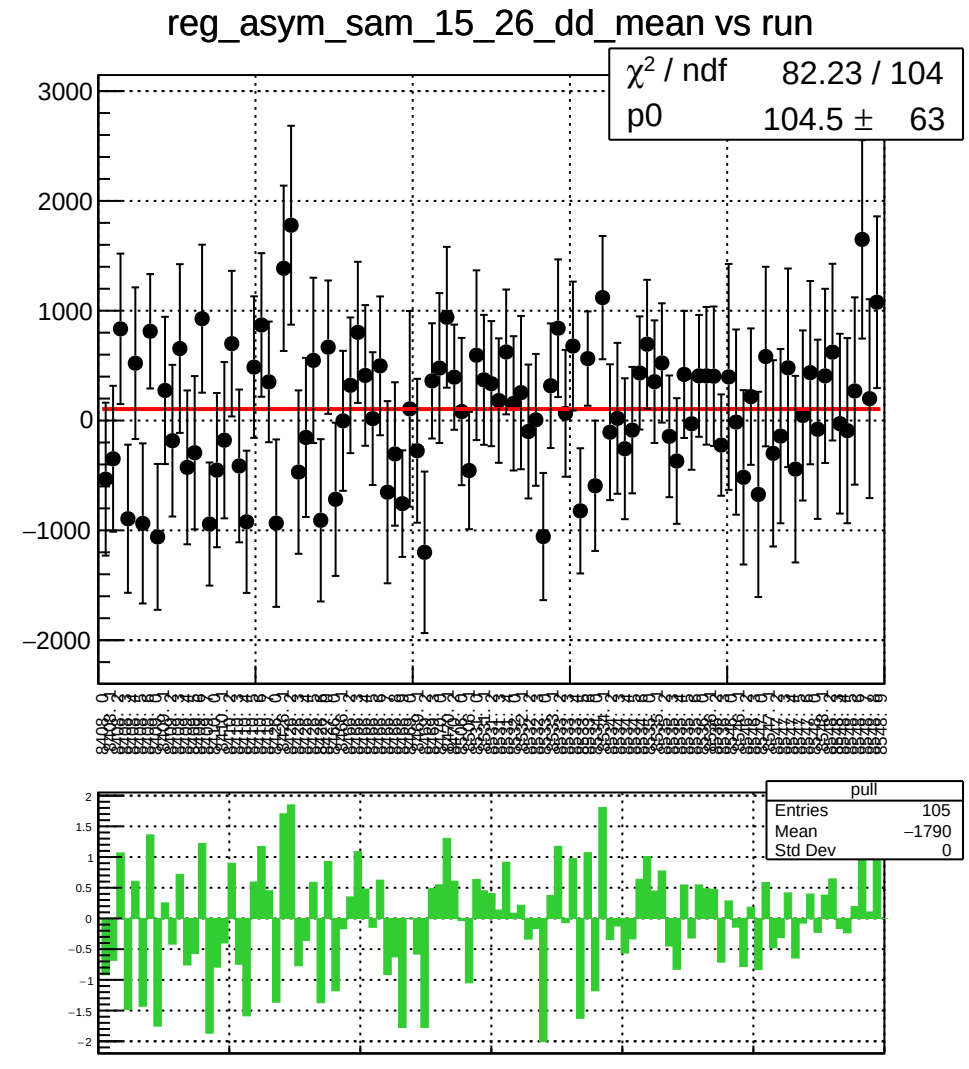

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 118.3 / 104
p0 0.107 ± 0.04443
pull
Entries 105
Mean 69.76
Std Dev 64.31

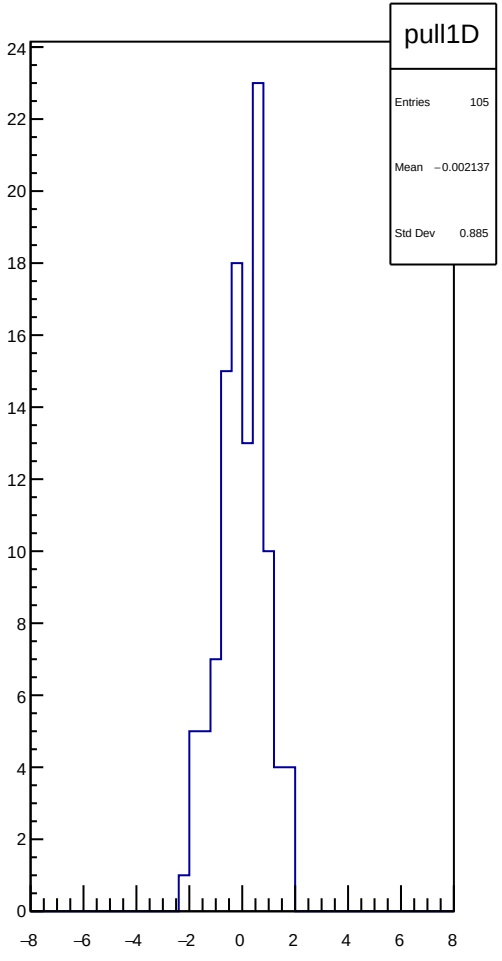

pull1D
Entries 105
Mean 0.01503
Std Dev 1.061

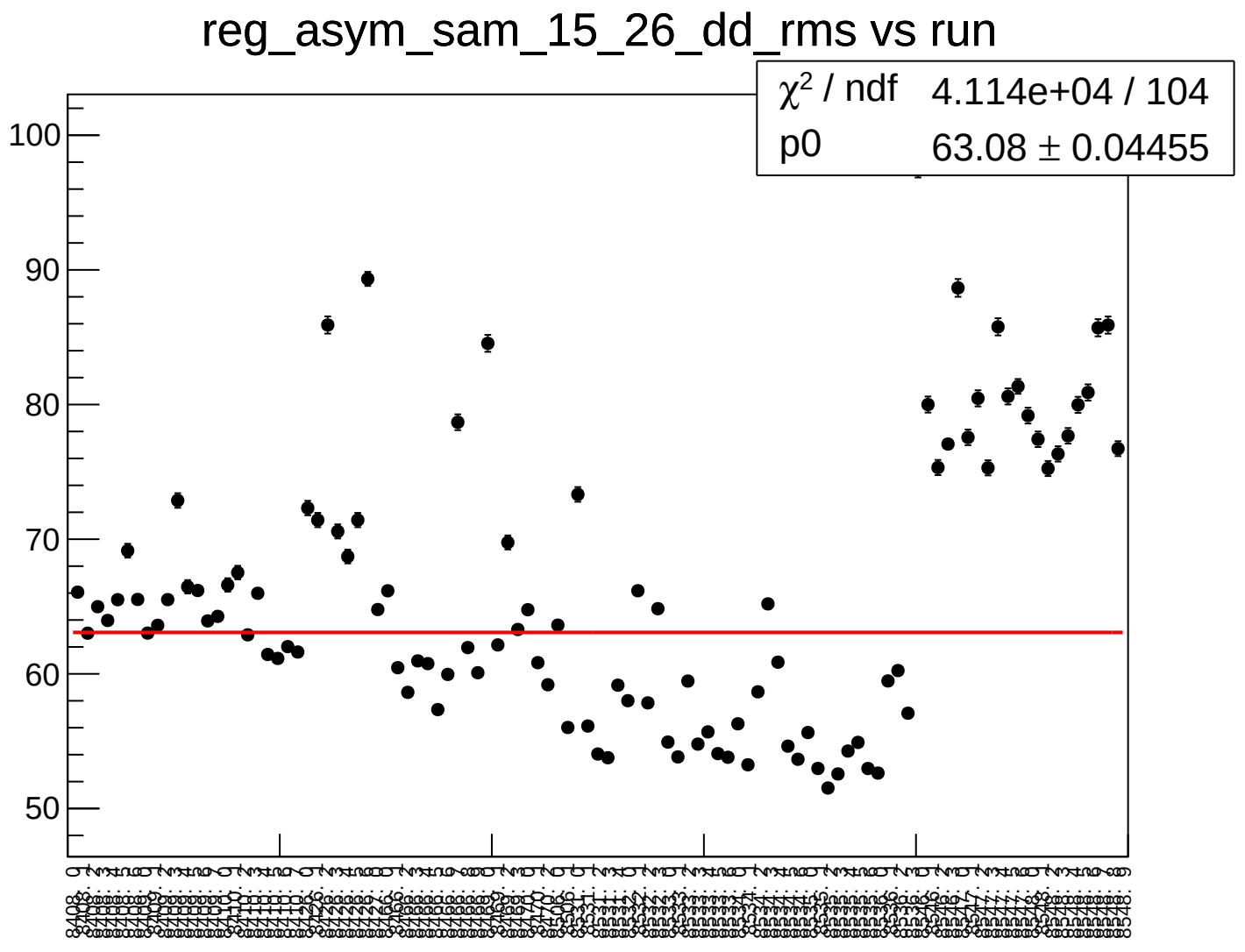

asym_sam_37_48_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 4.8e+04 / 104
p0 44.41 ± 0.03142
90
80
70
60
50
40
30

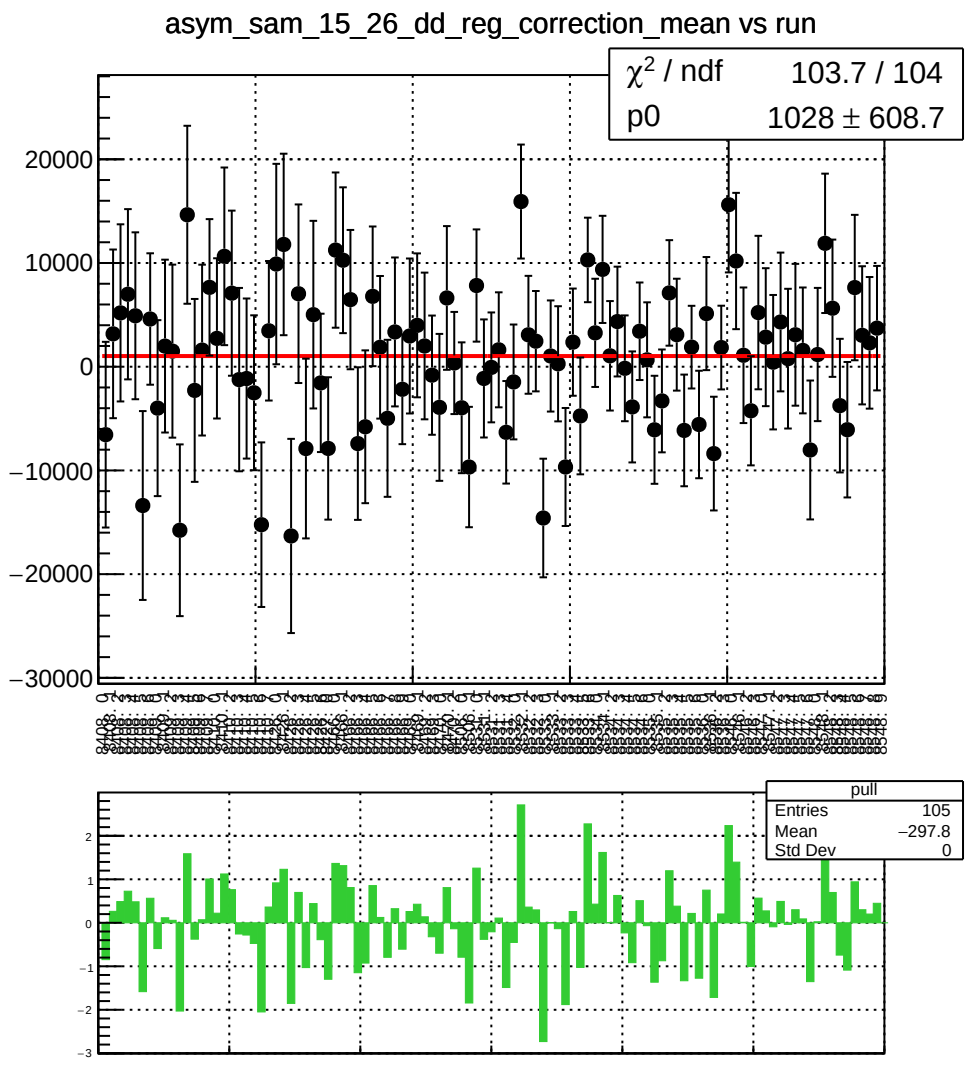

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 108.2 / 104
p0 9.393e−15 ± 1.942e−14
1.5
1
0.5
0
−0.5
−1
−1.5
pull
Entries 105
Mean −153.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.02961
Std Dev 1.014
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

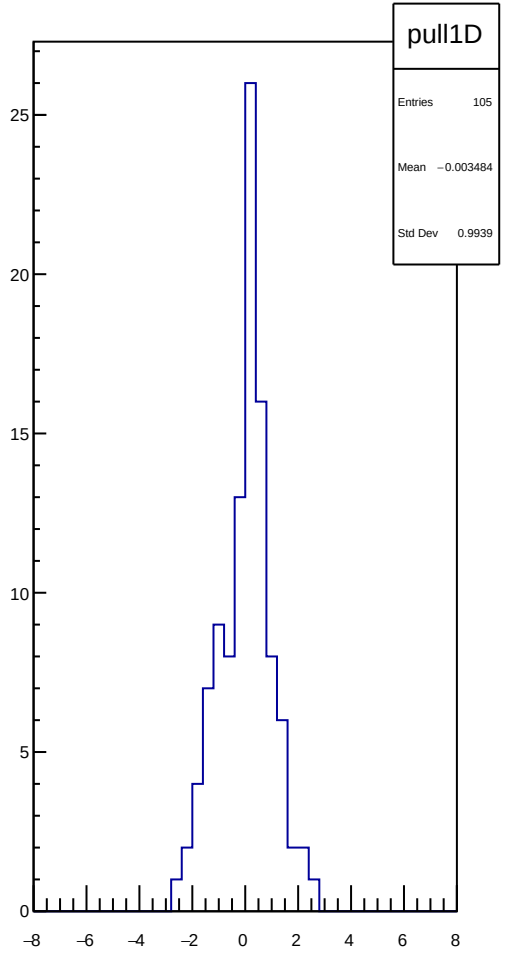

asym_sam_37_48_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
χ² / ndf 5.95e+05 / 104
p0 1.654e−11 ± 1.373e−14

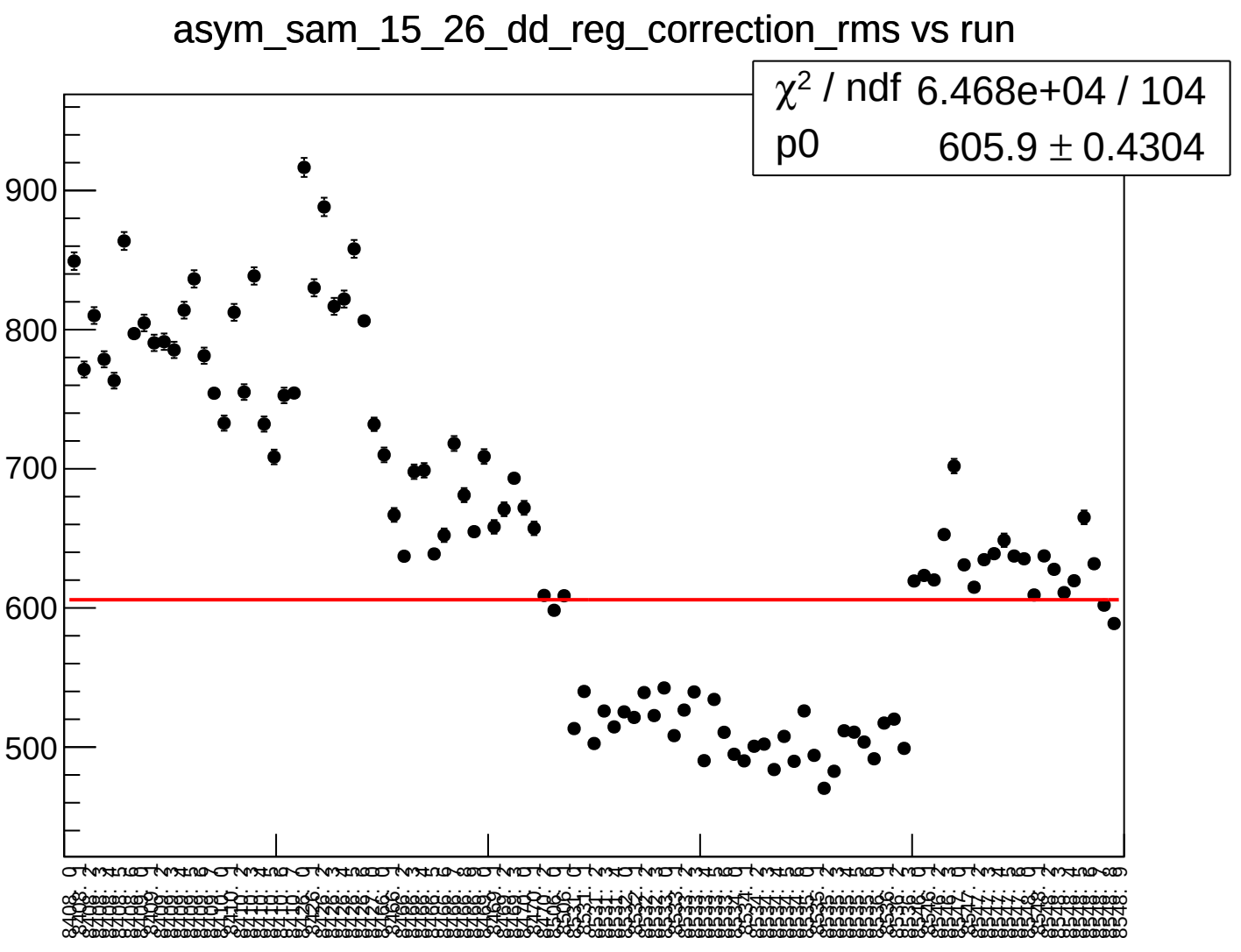

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 82.23 / 104
p0 104.5 ± 63
3000
2000
1000
0
−1000
−2000
pull
Entries 105
Mean −1790
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

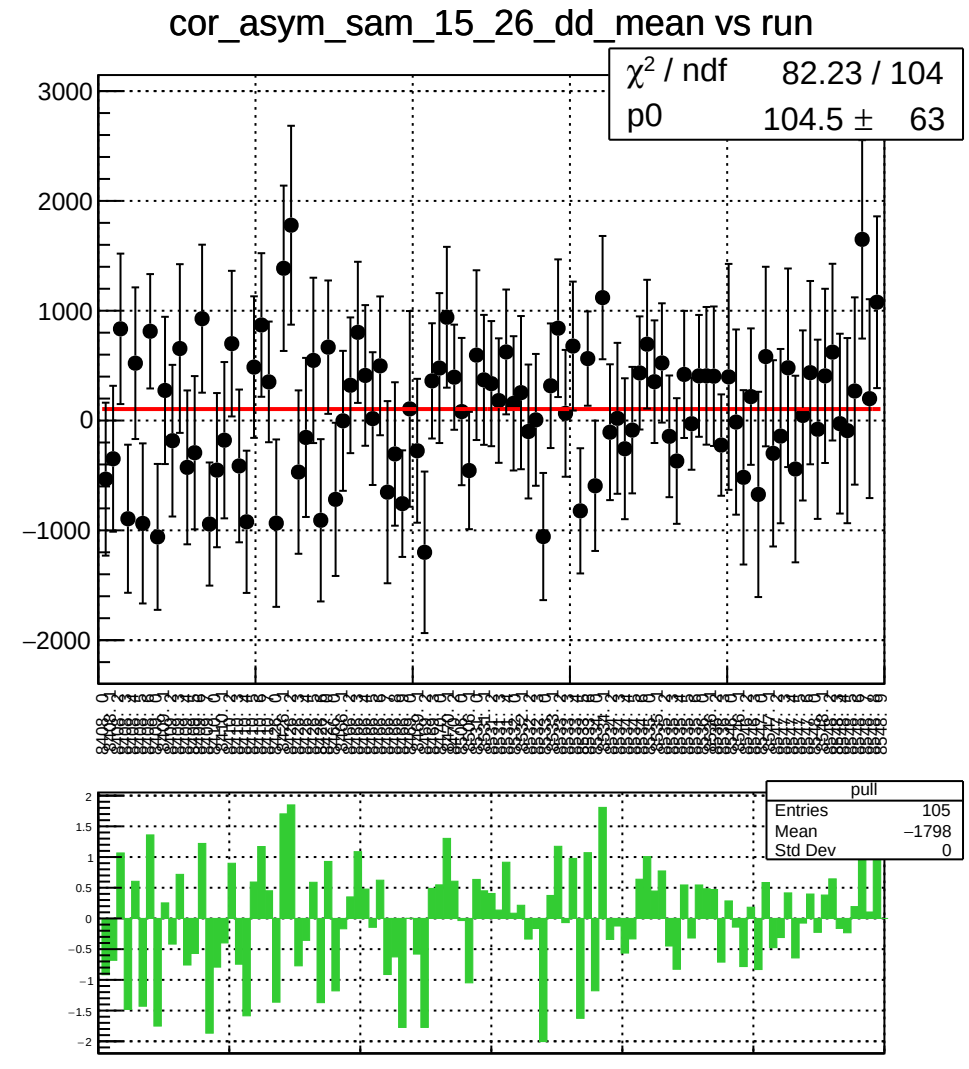

pull1D
Entries 105
Mean −0.002137
Std Dev 0.885
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

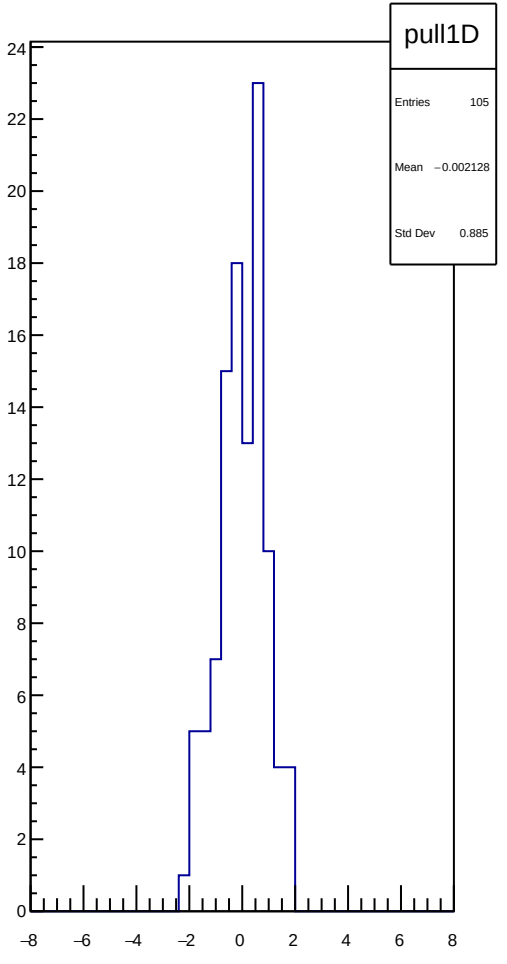

reg_asym_sam_15_26_dd_rms vs run
χ² / ndf 4.114e+04 / 104
p0 63.08 ± 0.04455
100
90
80
70
60
50

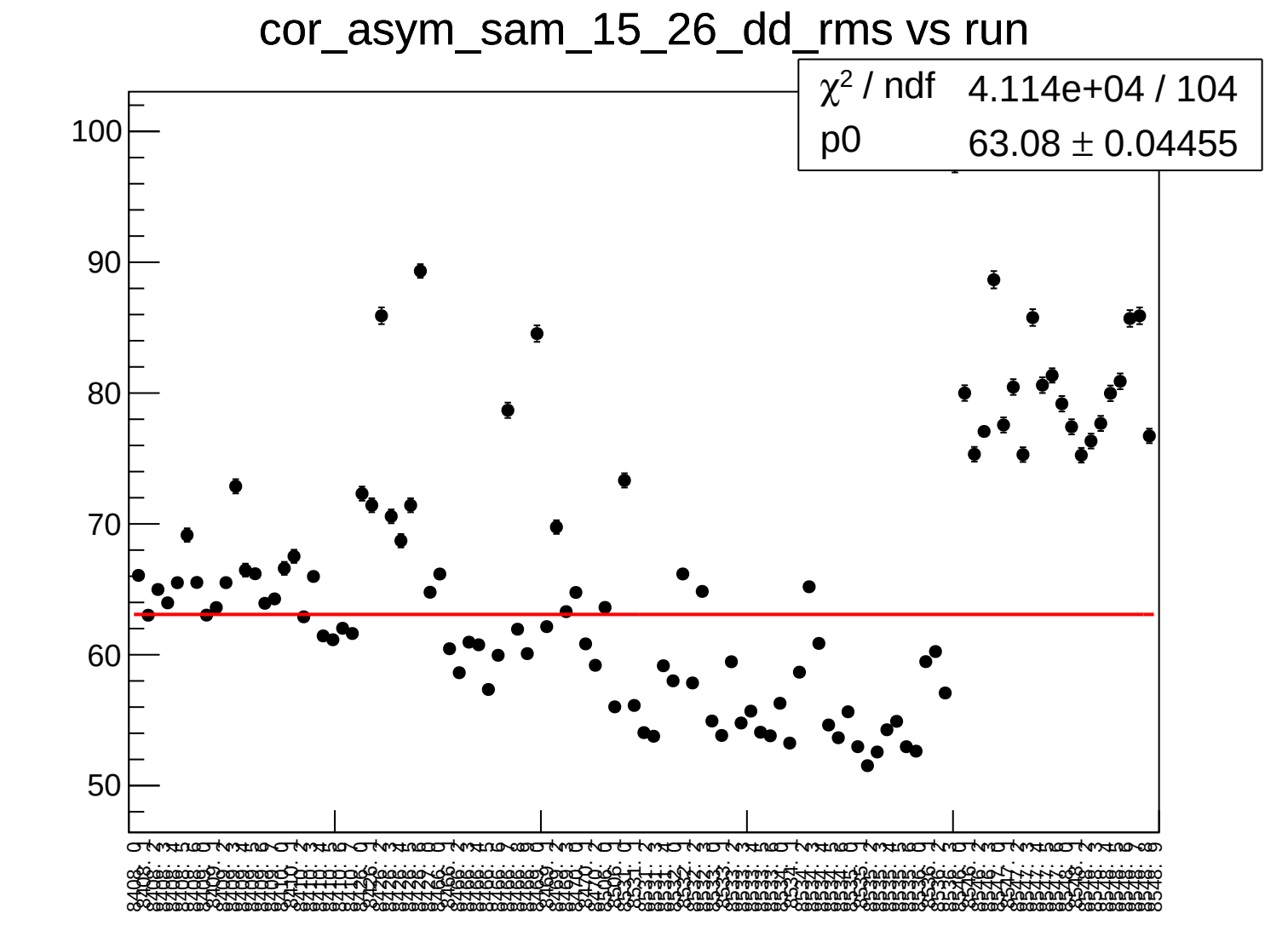

asym_sam_15_26_dd_reg_correction_mean vs run
χ² / ndf 103.7 / 104
p0 1028 ± 608.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 105
Mean −297.8
Std Dev 0
2
1
0
−1
−2
−3

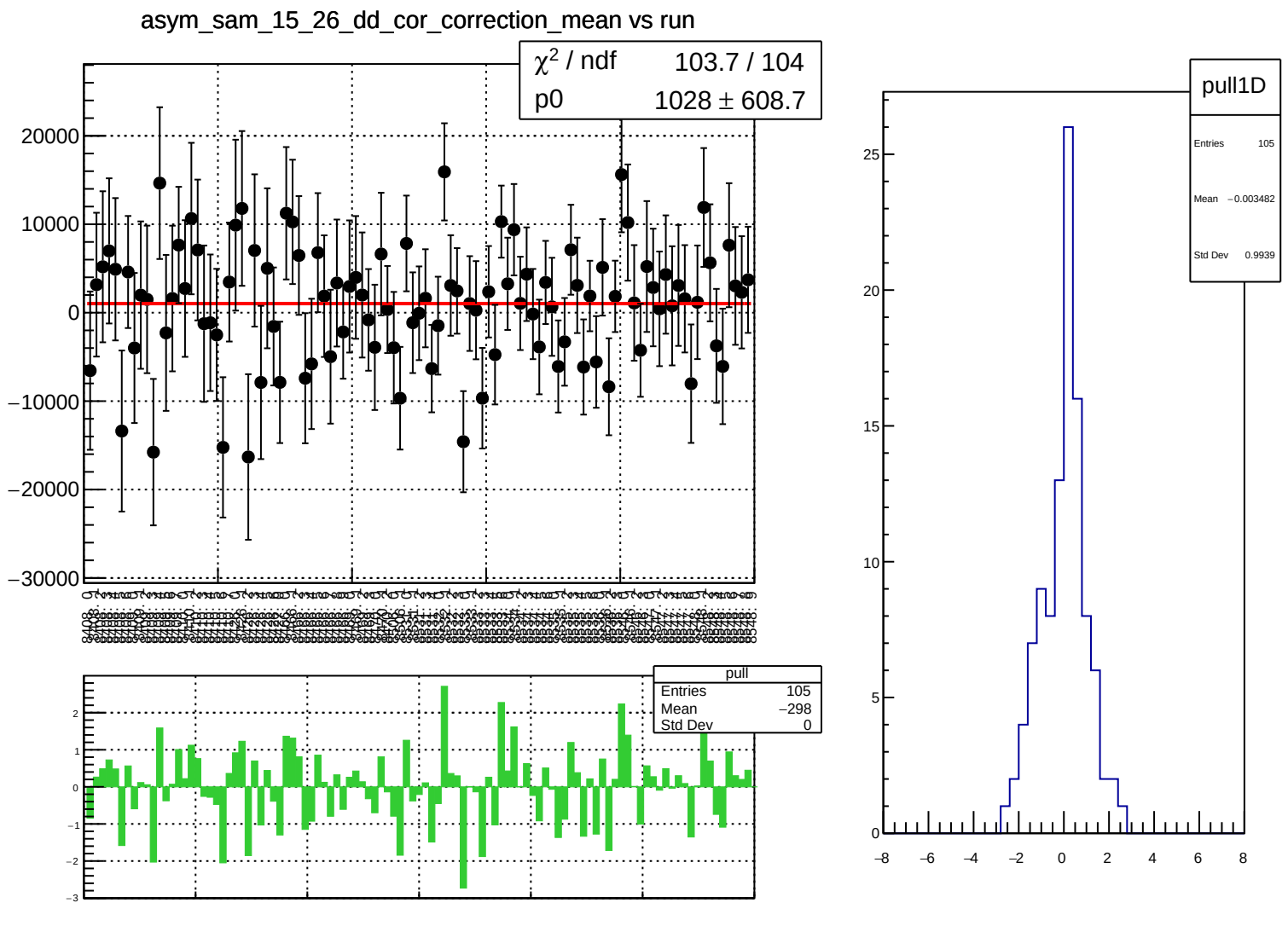

pull1D
Entries 105
Mean −0.003484
Std Dev 0.9939
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

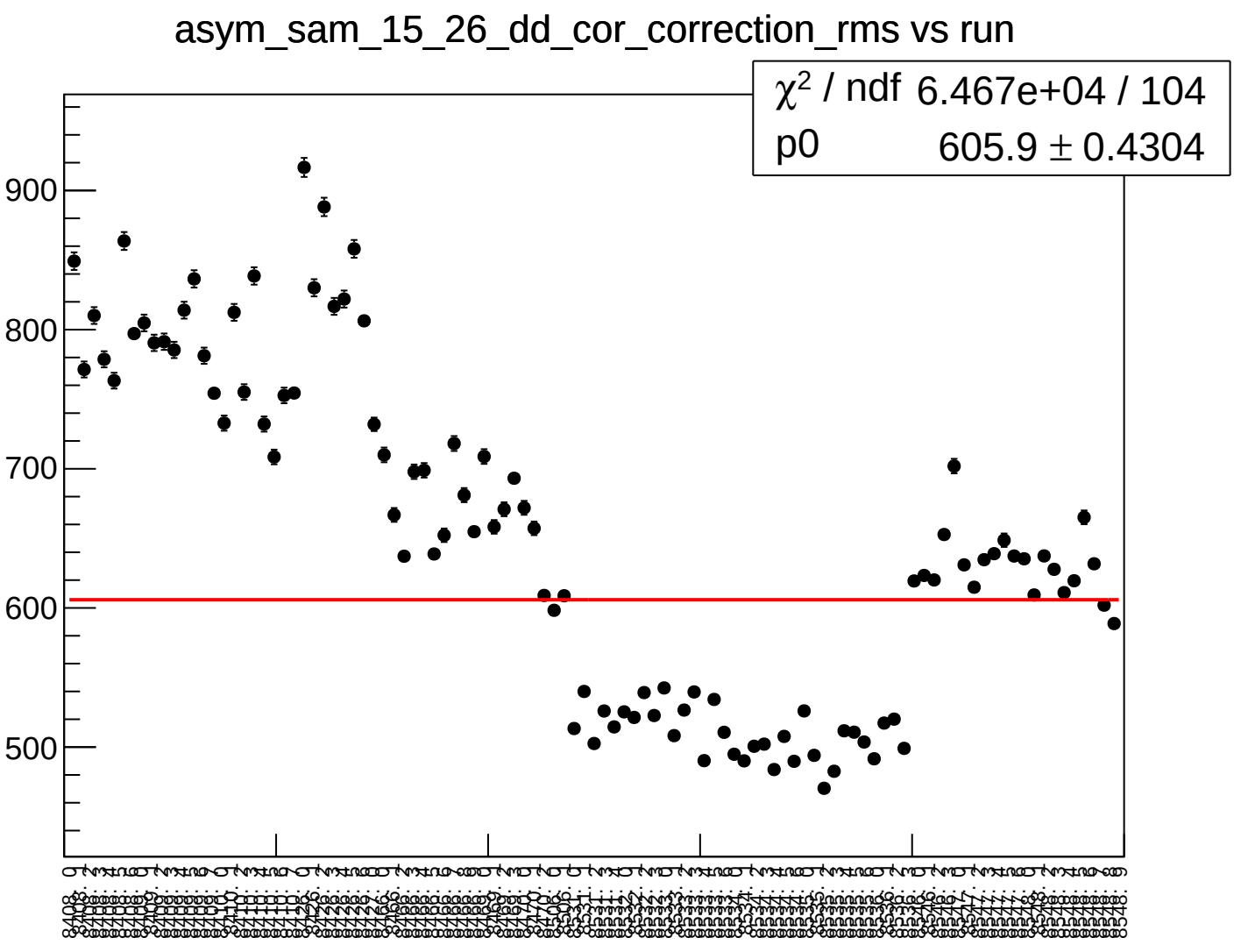

asym_sam_15_26_dd_reg_correction_rms vs run
χ² / ndf 6.468e+04 / 104
p0 605.9 ± 0.4304
900
800
700
600
500

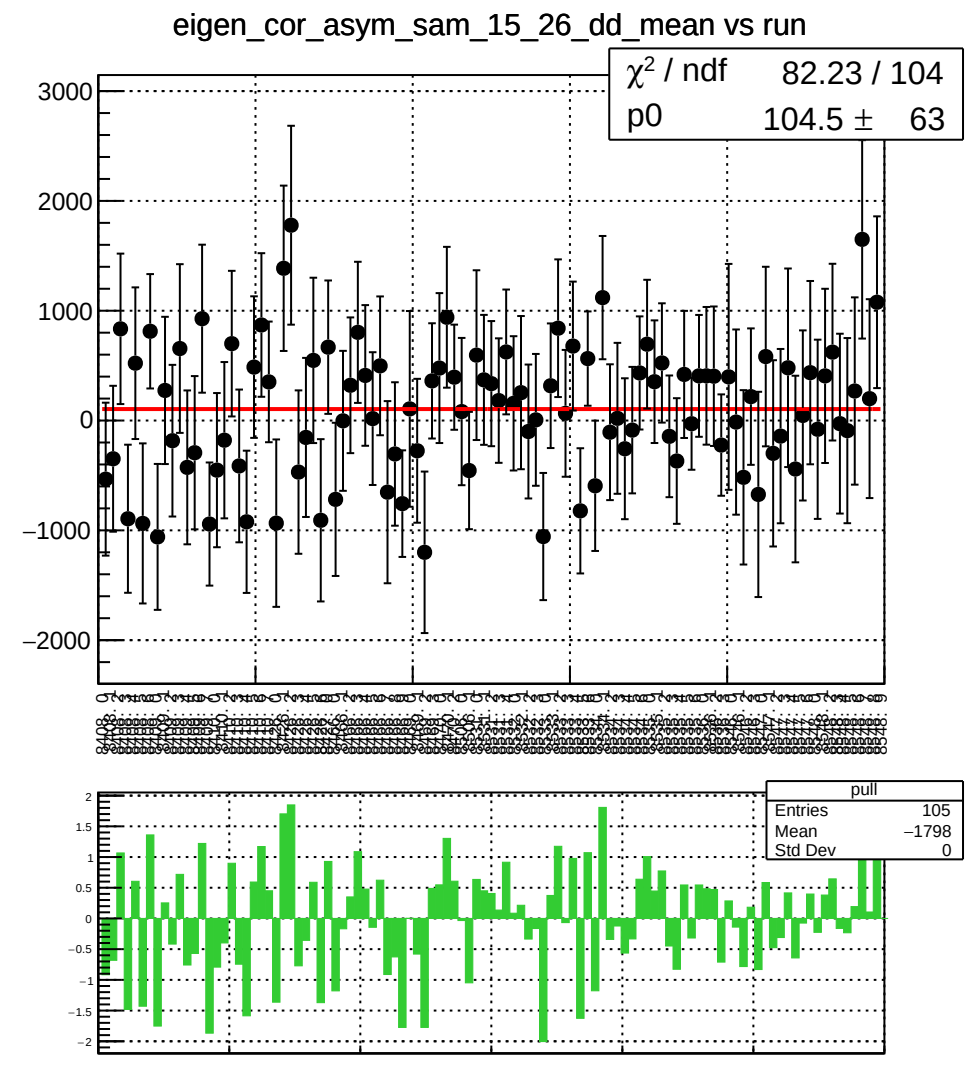

cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 82.23 / 104
p0 104.5 ± 63
3000
2000
1000
0
−1000
−2000
pull
Entries 105
Mean −1798
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

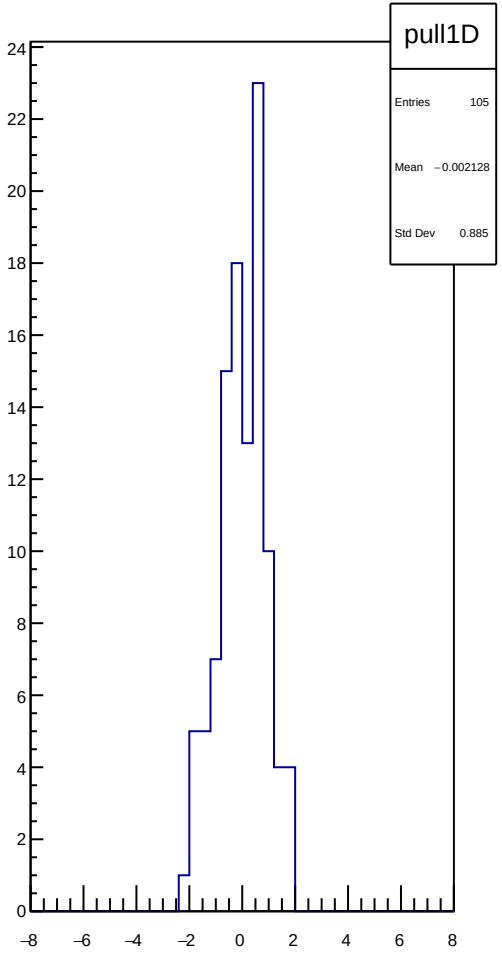

pull1D
Entries 105
Mean −0.002128
Std Dev 0.885
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

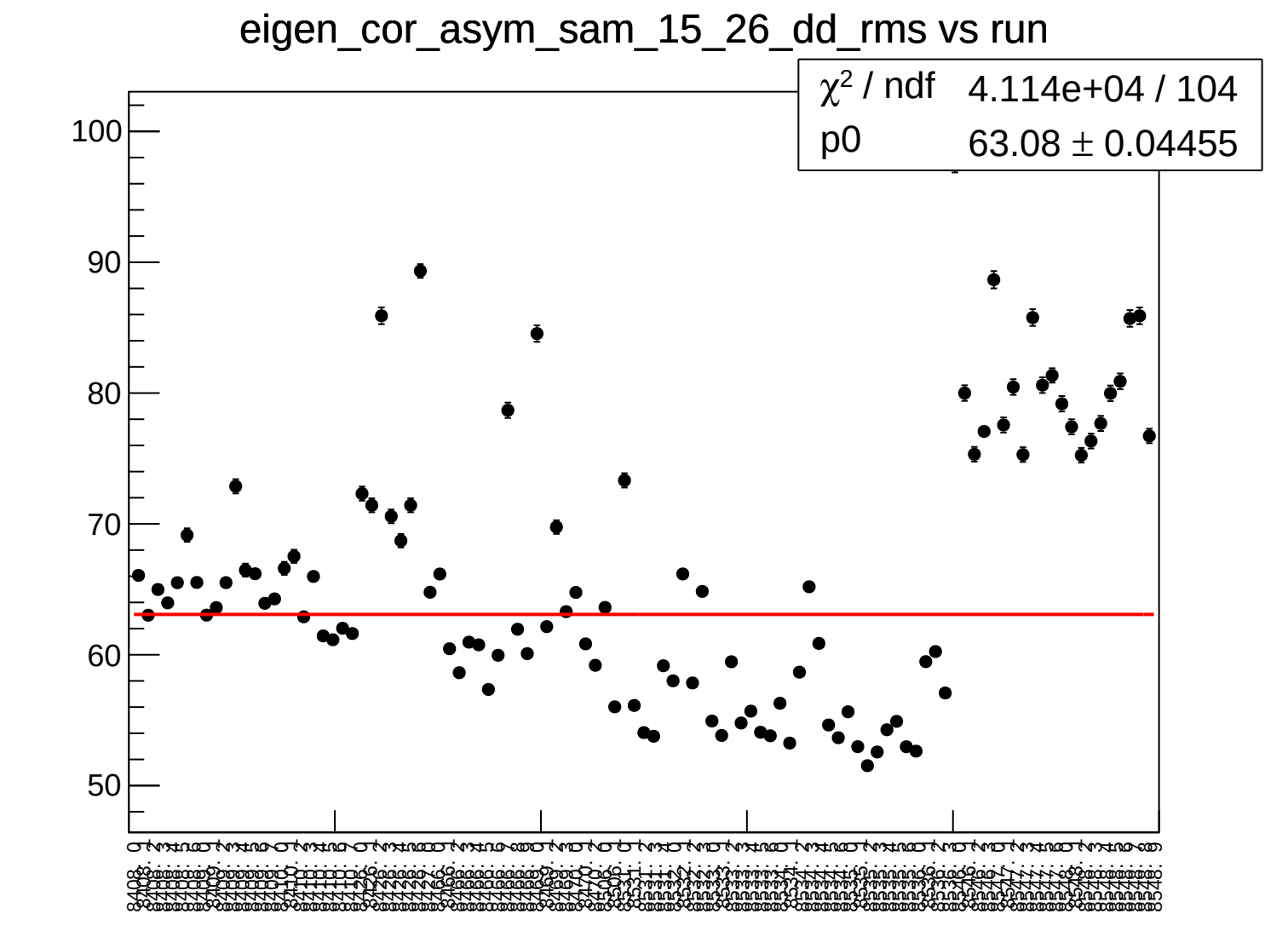

cor_asym_sam_15_26_dd_rms vs run
χ^2 / ndf 4.114e+04 / 104
p0 63.08 ± 0.04455
100
90
80
70
60
50

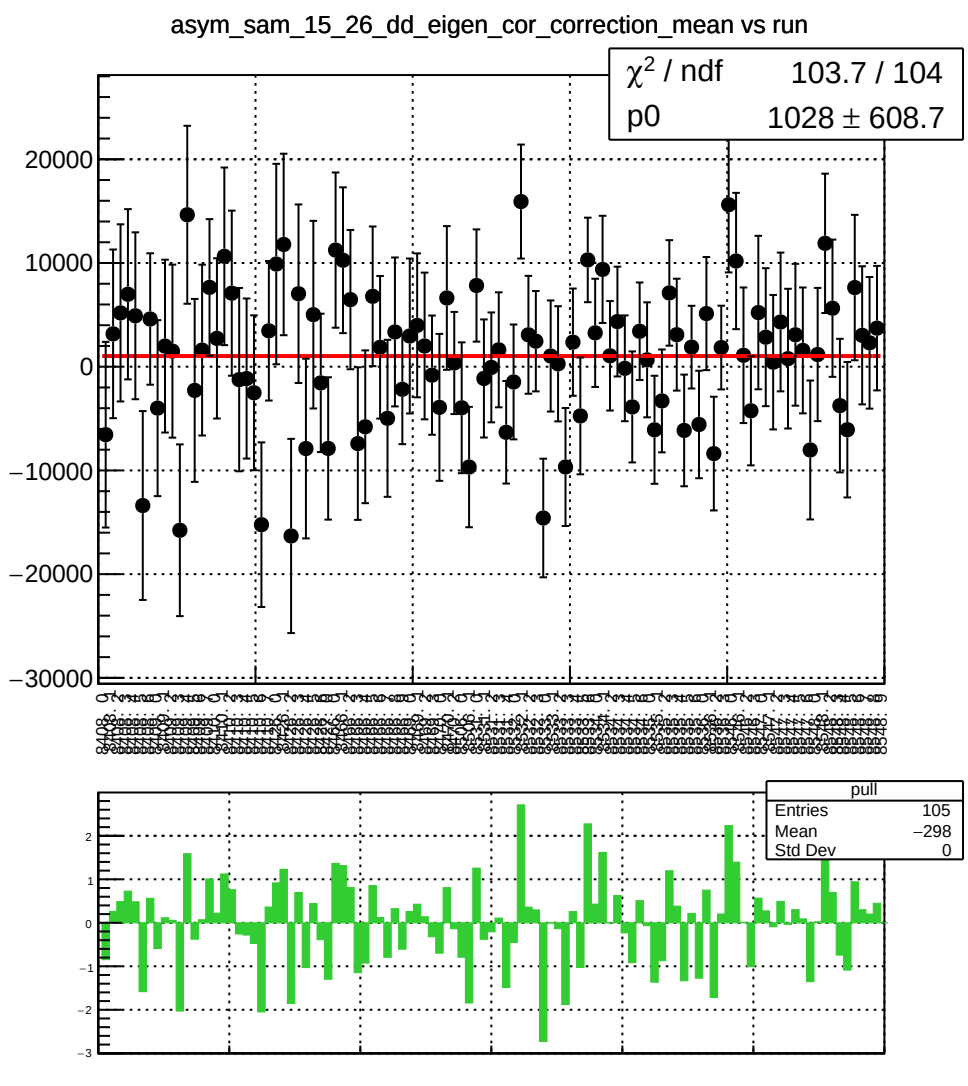

asym_sam_15_26_dd_cor_correction_mean vs run
χ² / ndf 103.7 / 104
p0 1028 ± 608.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 105
Mean −298
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 105
Mean −0.003482
Std Dev 0.9939
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

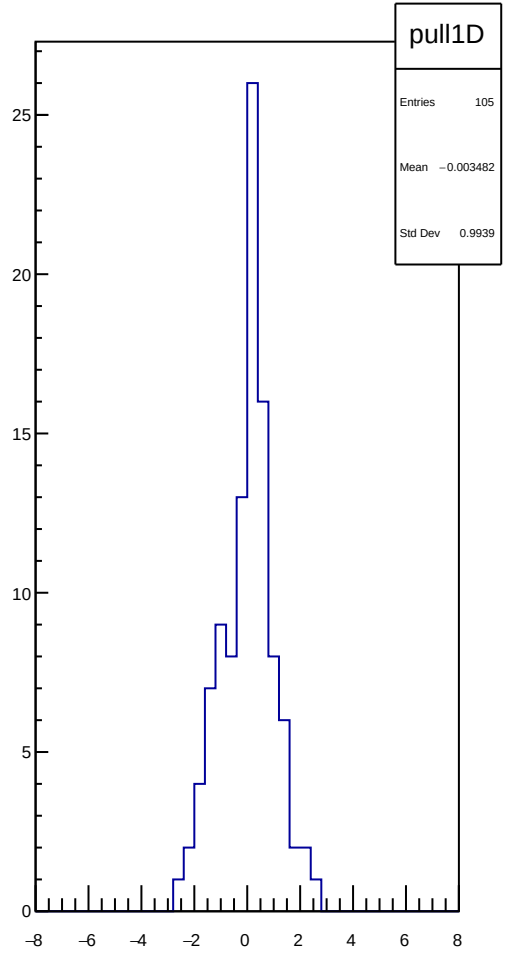

asym_sam_15_26_dd_cor_correction_rms vs run
χ² / ndf 6.467e+04 / 104
p0 605.9 ± 0.4304
900
800
700
600
500

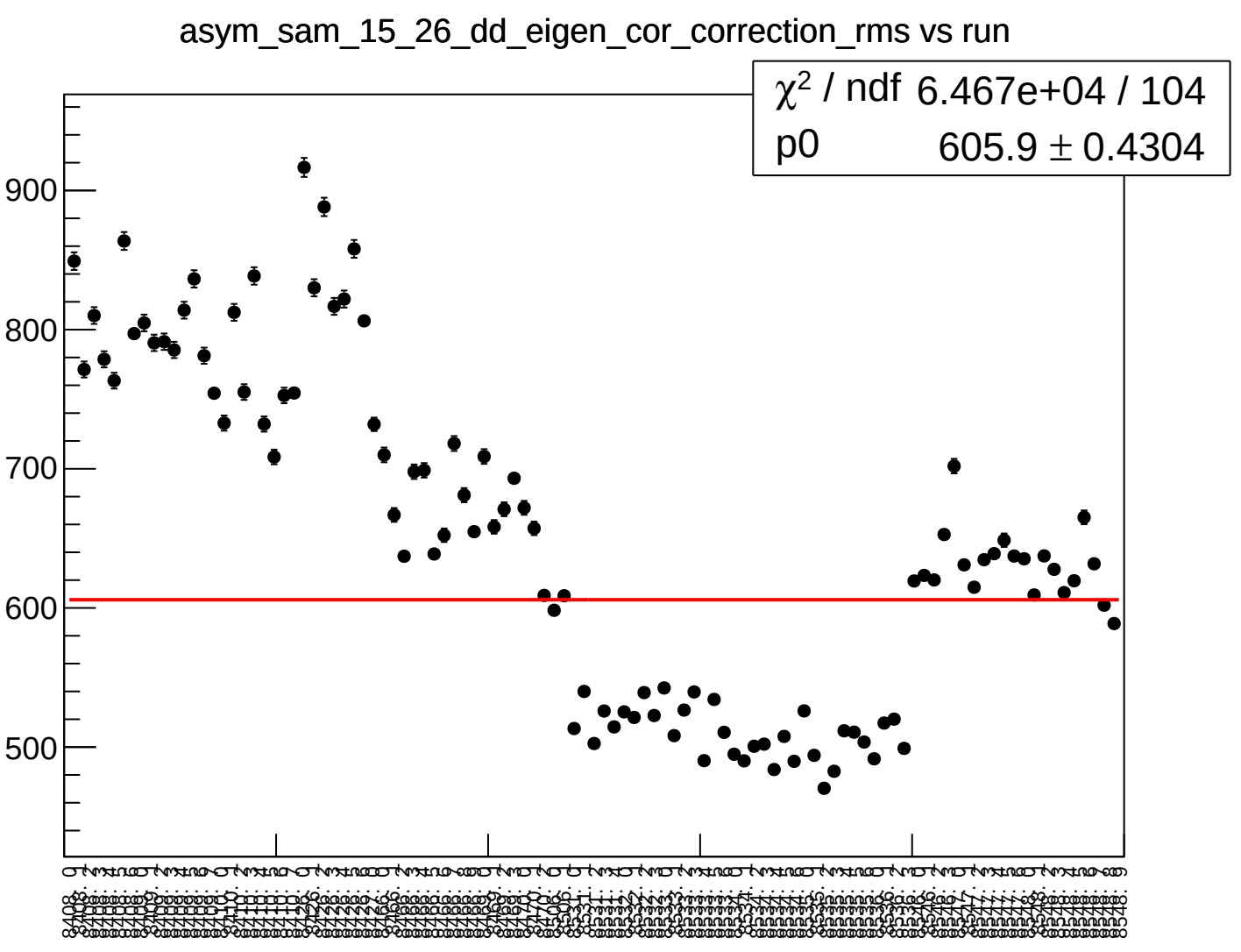

eigen_cor_asym_sam_15_26_dd_mean vs run
χ² / ndf 82.23 / 104
p0 104.5 ± 63
3000
2000
1000
0
−1000
−2000
pull
Entries 105
Mean −1798
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

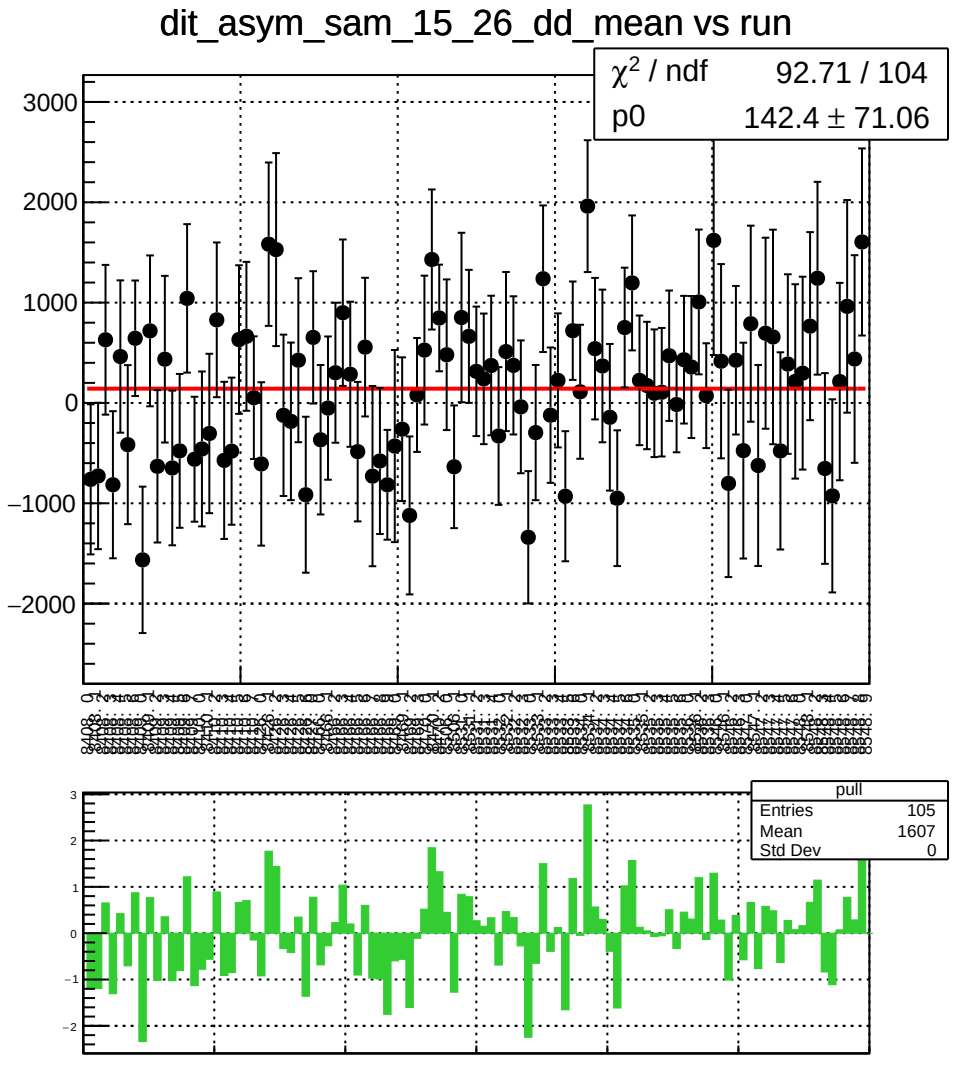

pull1D
Entries 105
Mean −0.002128
Std Dev 0.885
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

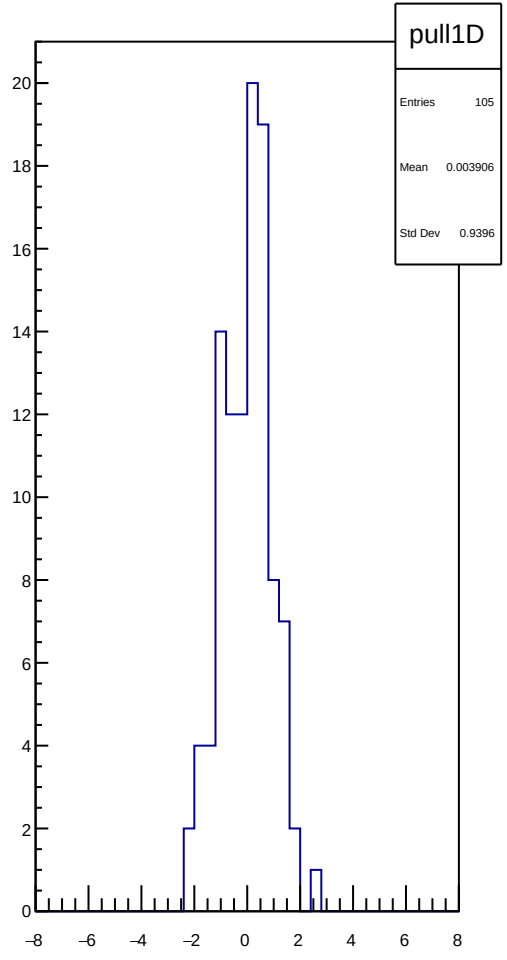

eigen_cor_asym_sam_15_26_dd_rms vs run
χ^2 / ndf 4.114e+04 / 104
p0 63.08 ± 0.04455
100
90
80
70
60
50

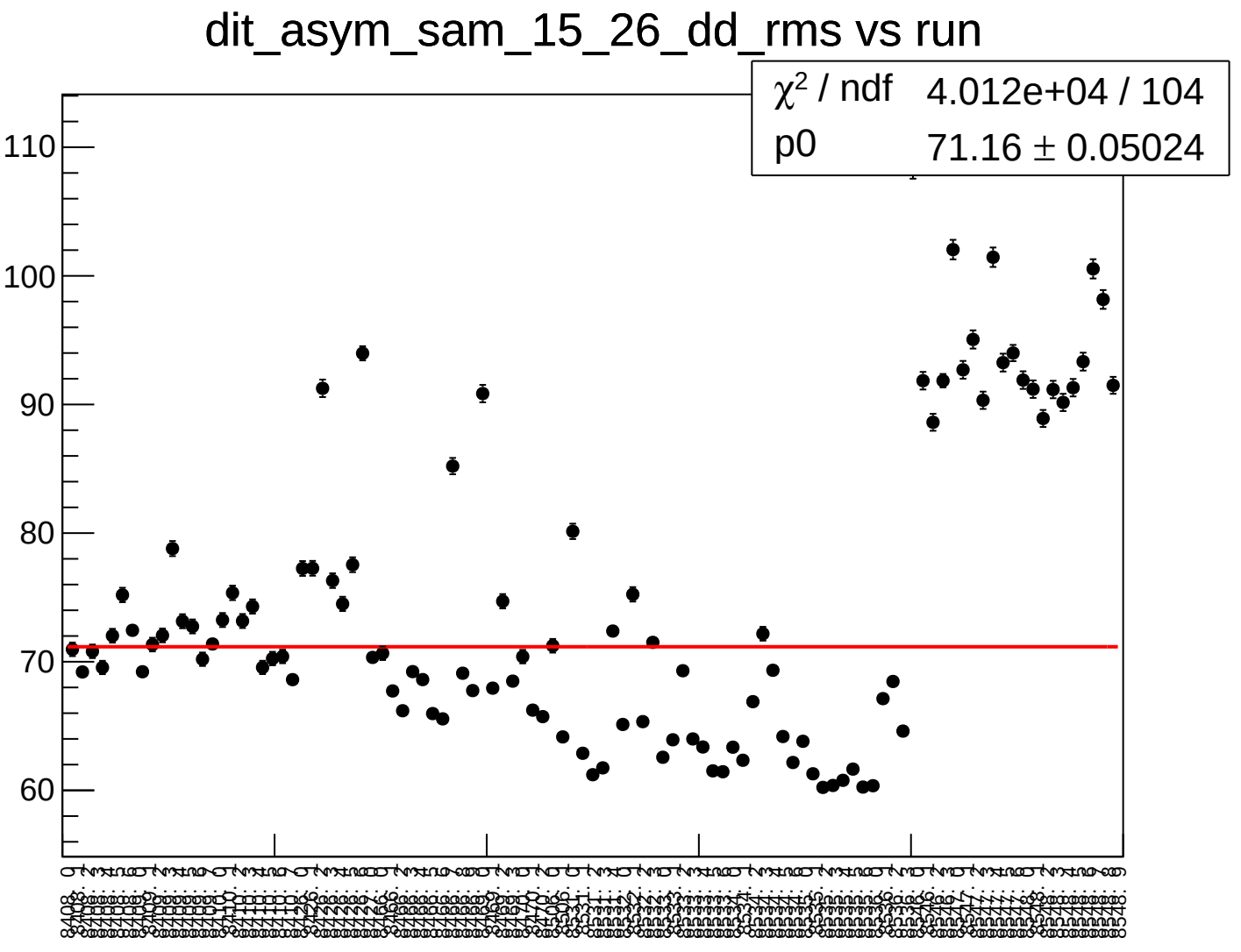

asym_sam_15_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 103.7 / 104
p0 1028 ± 608.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 105
Mean −298
Std Dev 0
2
1
0
−1
−2
−3

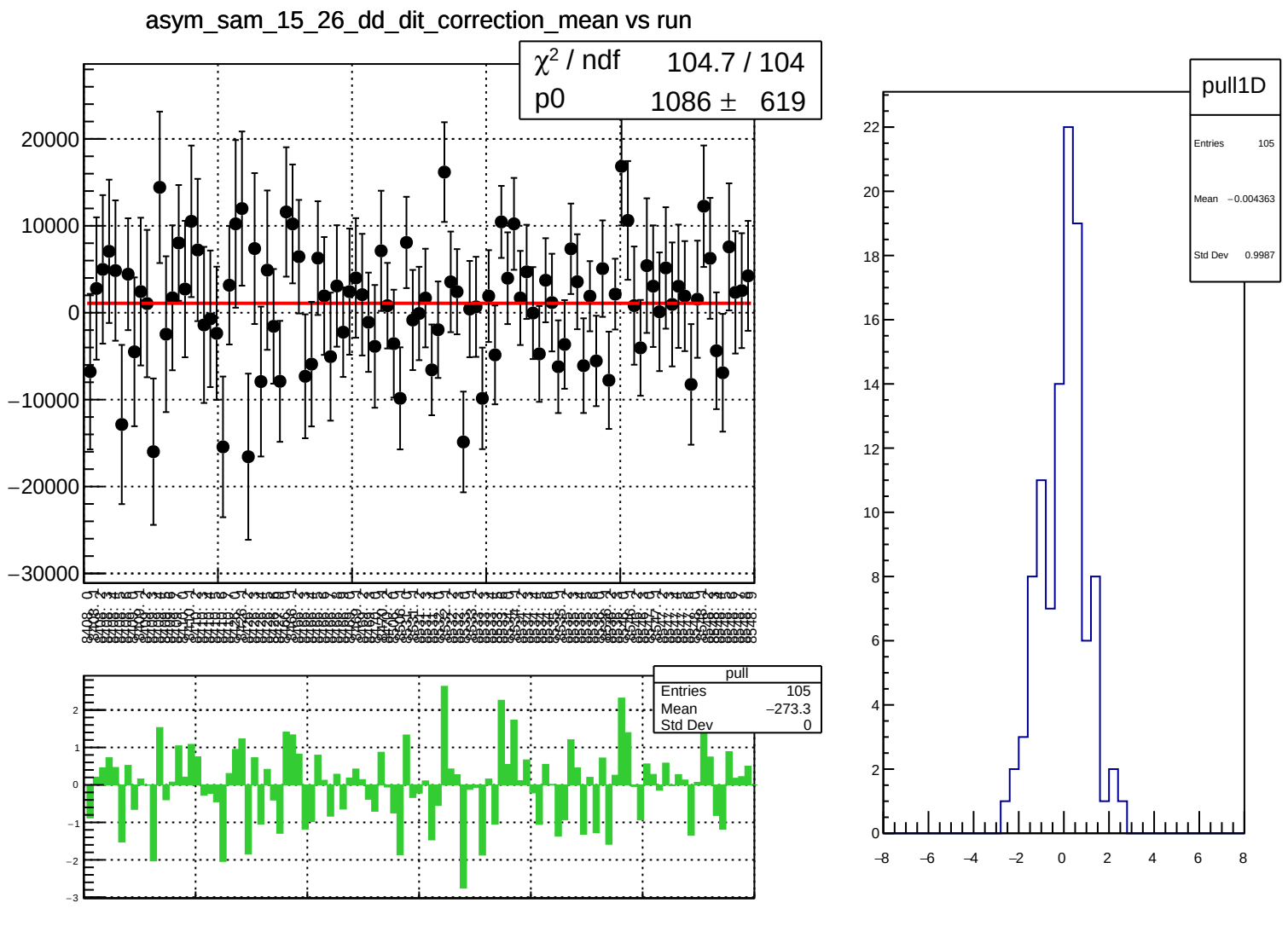

pull1D
Entries 105
Mean −0.003482
Std Dev 0.9939
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

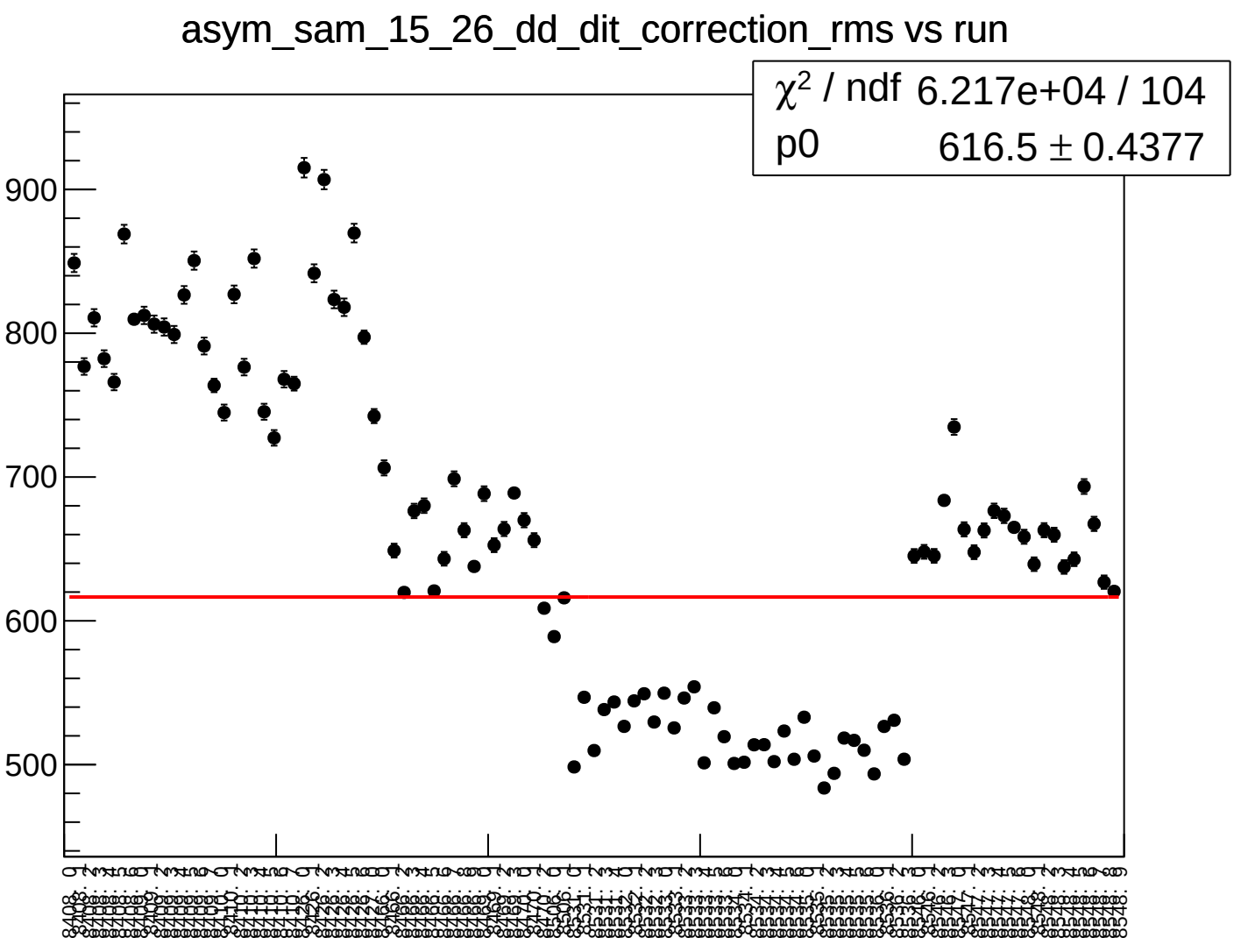

asym_sam_15_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 6.467e+04 / 104
p0 605.9 ± 0.4304
900
800
700
600
500

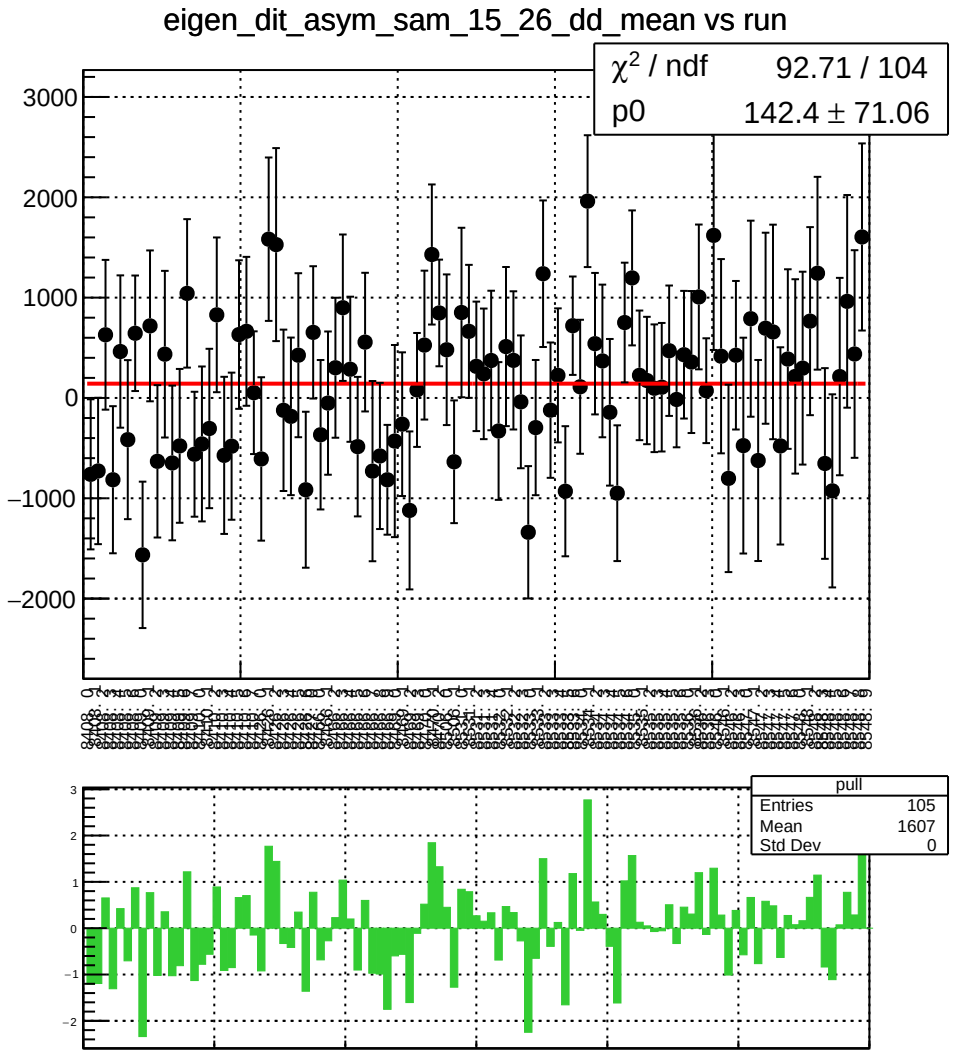

dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 92.71 / 104
p0 142.4 ± 71.06
3000
2000
1000
0
−1000
−2000
pull
Entries 105
Mean 1607
Std Dev 0
3
2
1
0
−1
−2

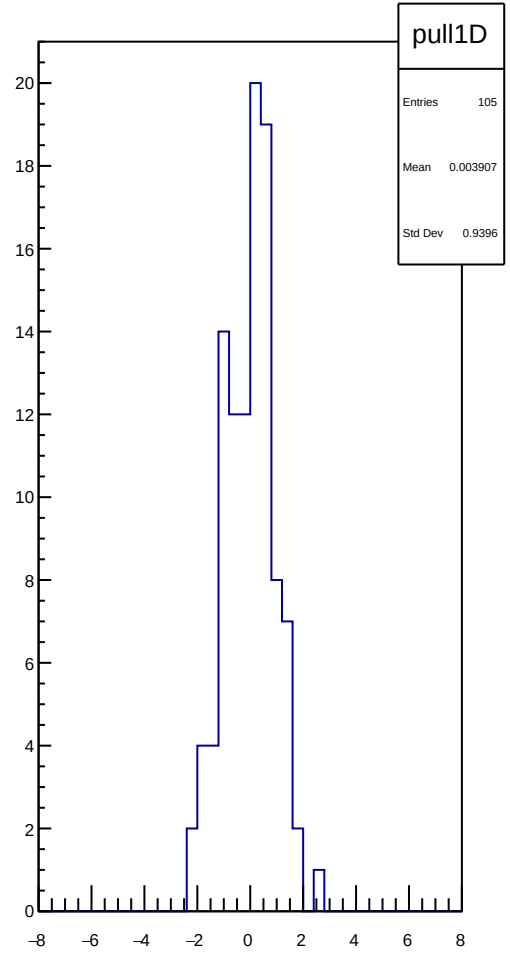

pull1D
Entries 105
Mean 0.003906
Std Dev 0.9396
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

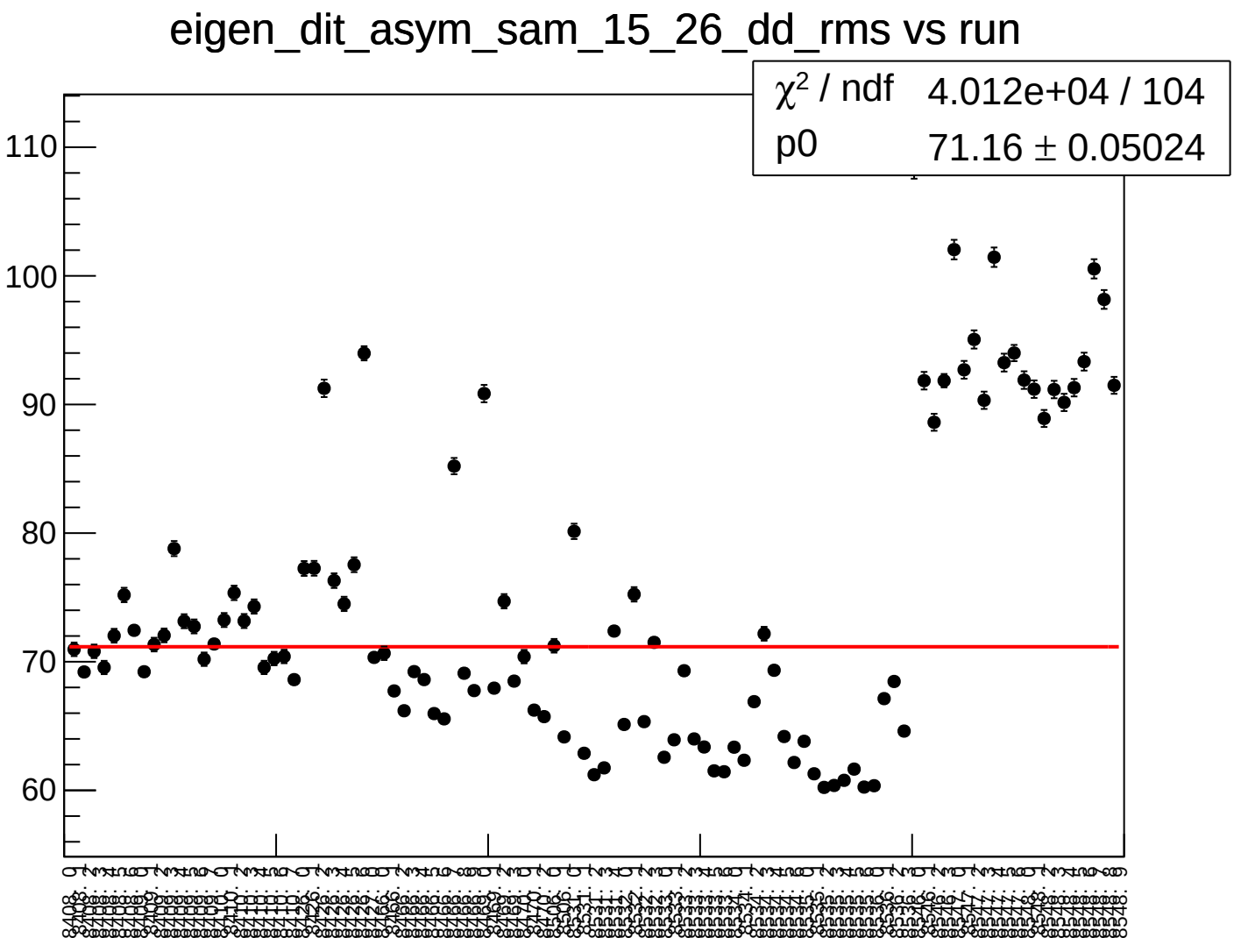

dit_asym_sam_15_26_dd_rms vs run
χ² / ndf 4.012e+04 / 104
p0 71.16 ± 0.05024
110
100
90
80
70
60

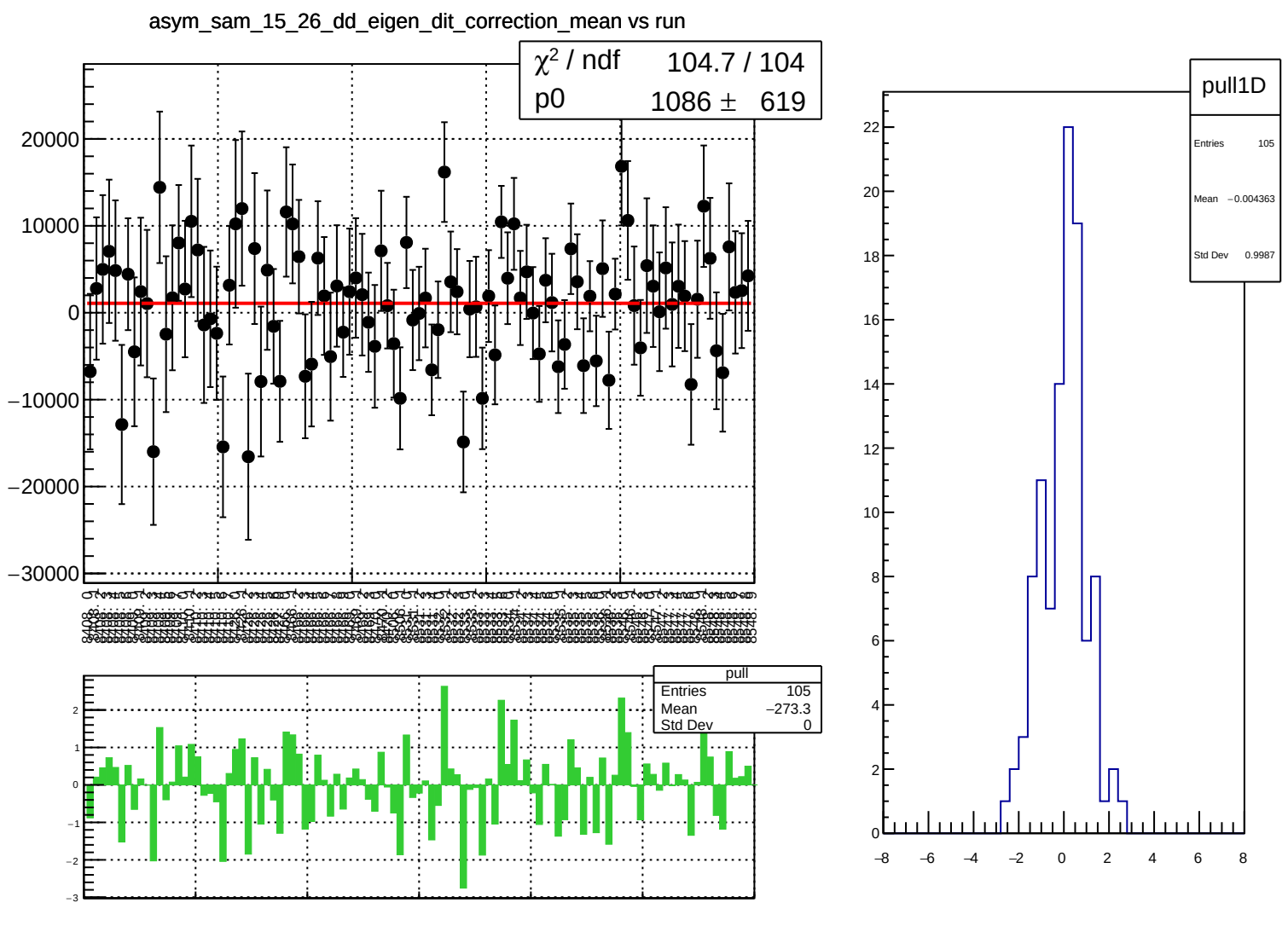

asym_sam_15_26_dd_dit_correction_mean vs run
χ² / ndf 104.7 / 104
p0 1086 ± 619
20000
10000
0
−10000
−20000
−30000
pull
Entries 105
Mean −273.3
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 105
Mean −0.004363
Std Dev 0.9987
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

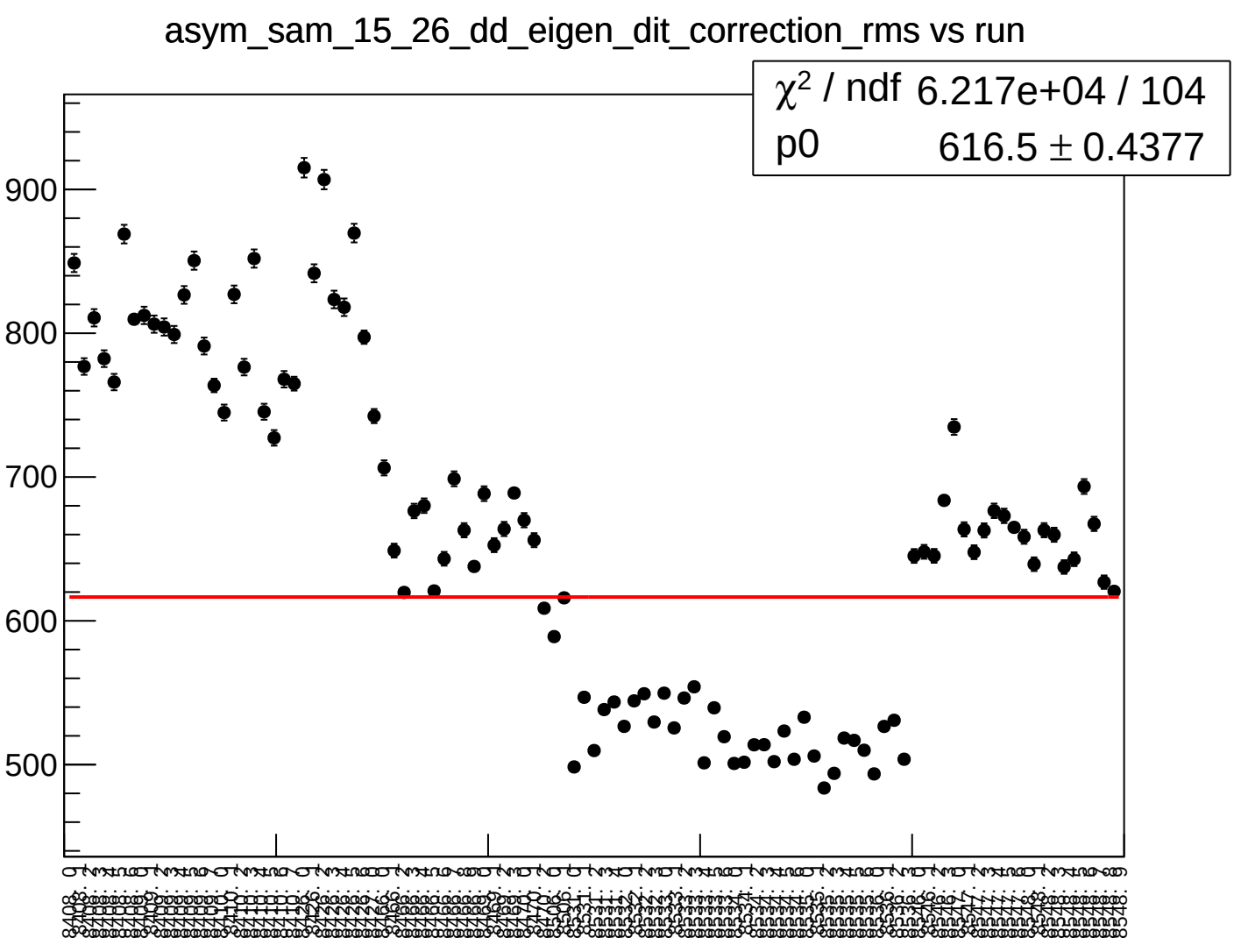

asym_sam_15_26_dd_dit_correction_rms vs run
χ² / ndf 6.217e+04 / 104
p0 616.5 ± 0.4377
900
800
700
600
500

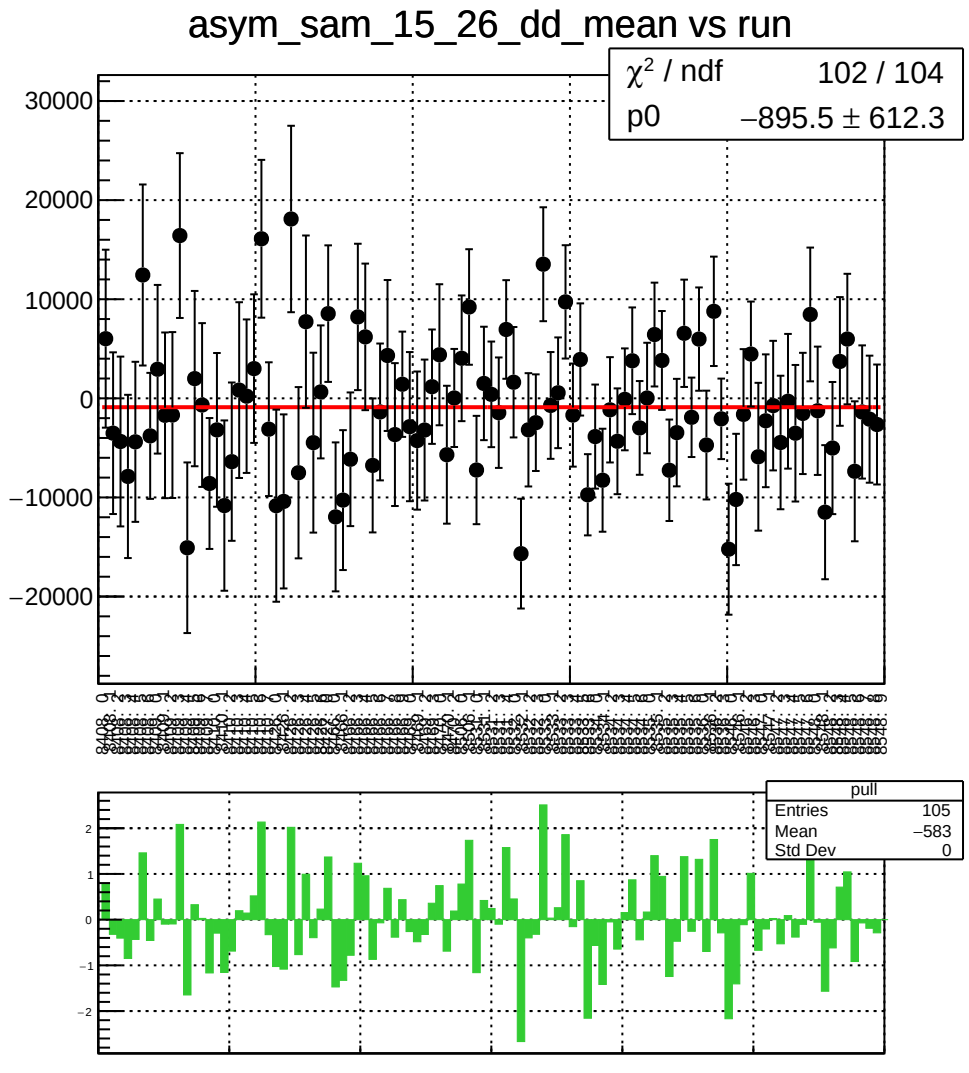

eigen_dit_asym_sam_15_26_dd_mean vs run
χ² / ndf 92.71 / 104
p0 142.4 ± 71.06
3000
2000
1000
0
−1000
−2000
pull
Entries 105
Mean 1607
Std Dev 0
3
2
1
0
−1
−2

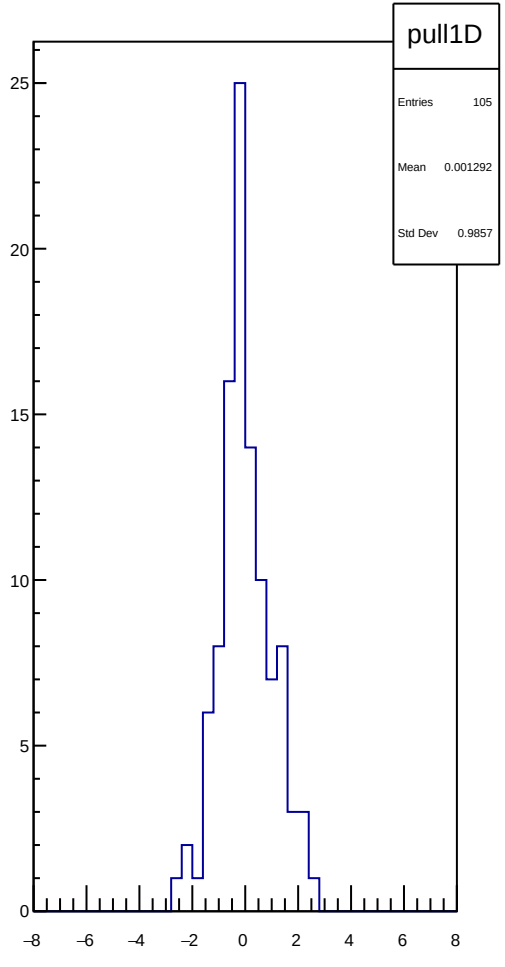

pull1D
Entries 105
Mean 0.003907
Std Dev 0.9396
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

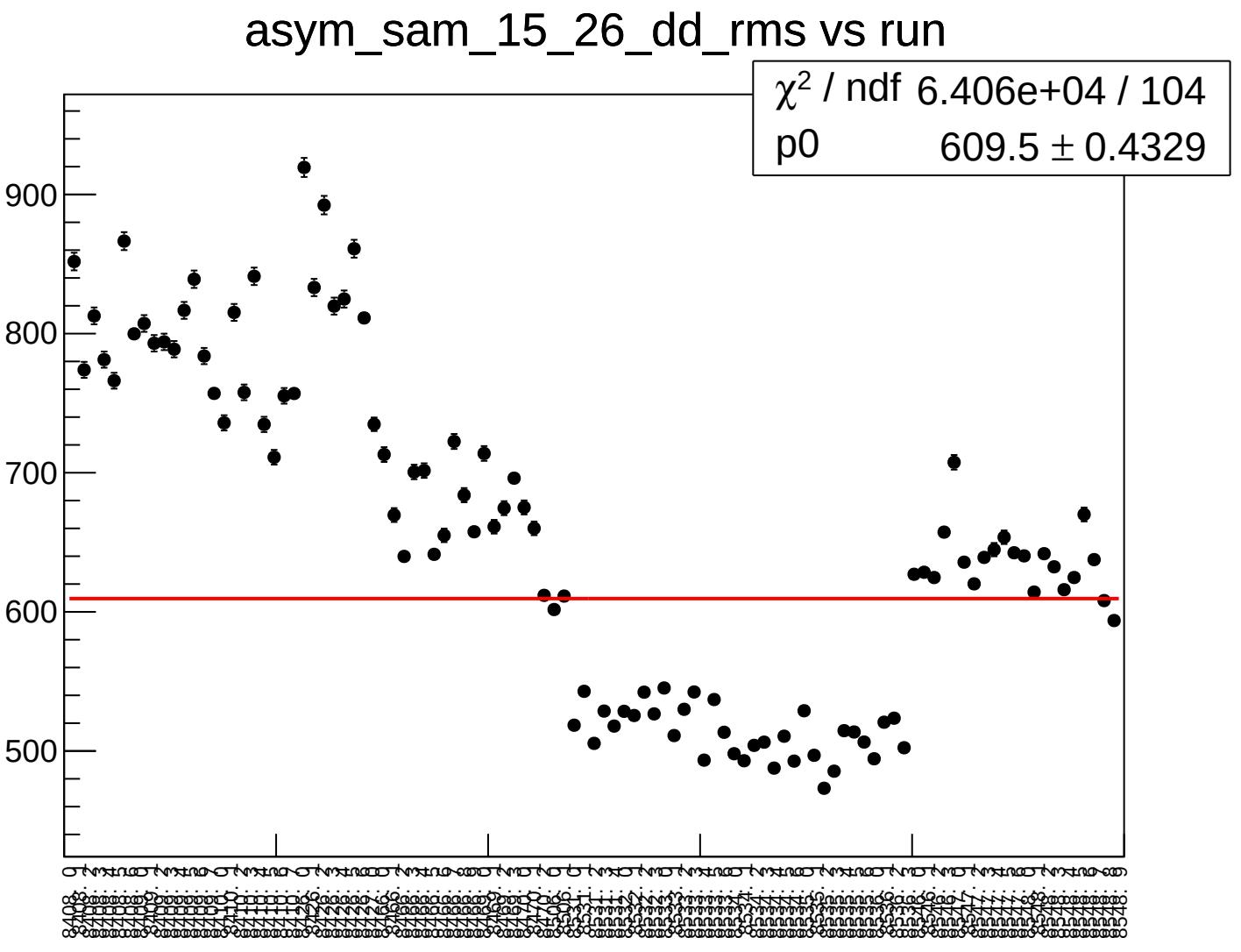

eigen_dit_asym_sam_15_26_dd_rms vs run
χ^2 / ndf 4.012e+04 / 104
p0 71.16 ± 0.05024
110
100
90
80
70
60

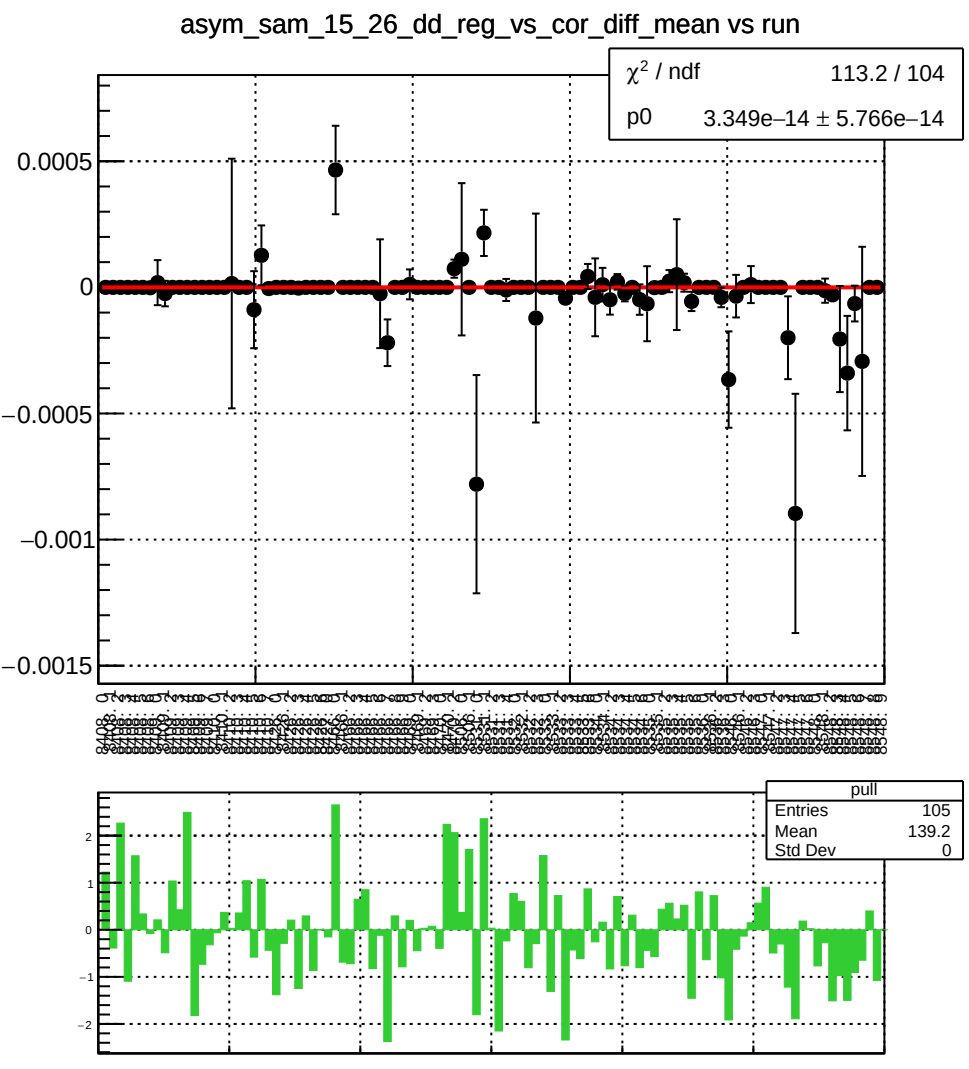

asym_sam_15_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 104.7 / 104
p0 1086 ± 619
20000
10000
0
−10000
−20000
−30000
pull
Entries 105
Mean −273.3
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 105
Mean −0.004363
Std Dev 0.9987
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

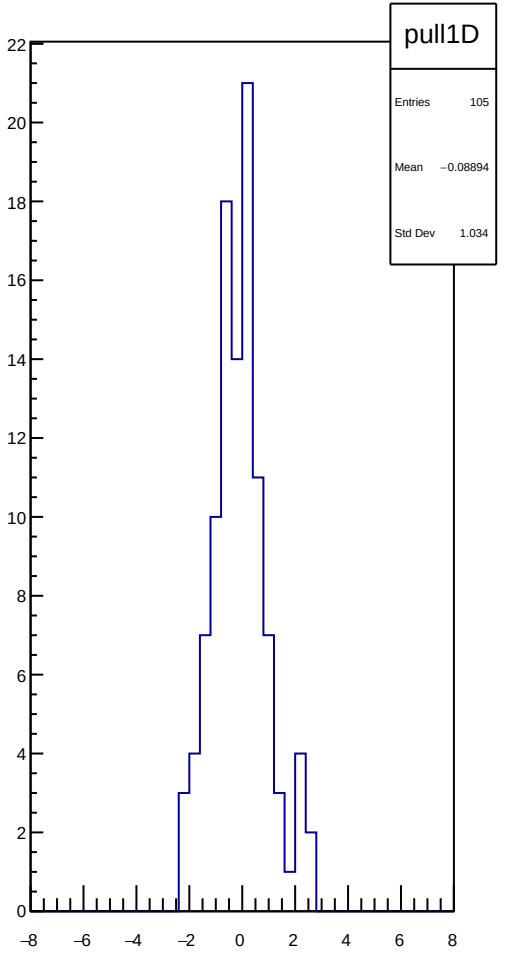

asym_sam_15_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 6.217e+04 / 104
p0 616.5 ± 0.4377
900
800
700
600
500

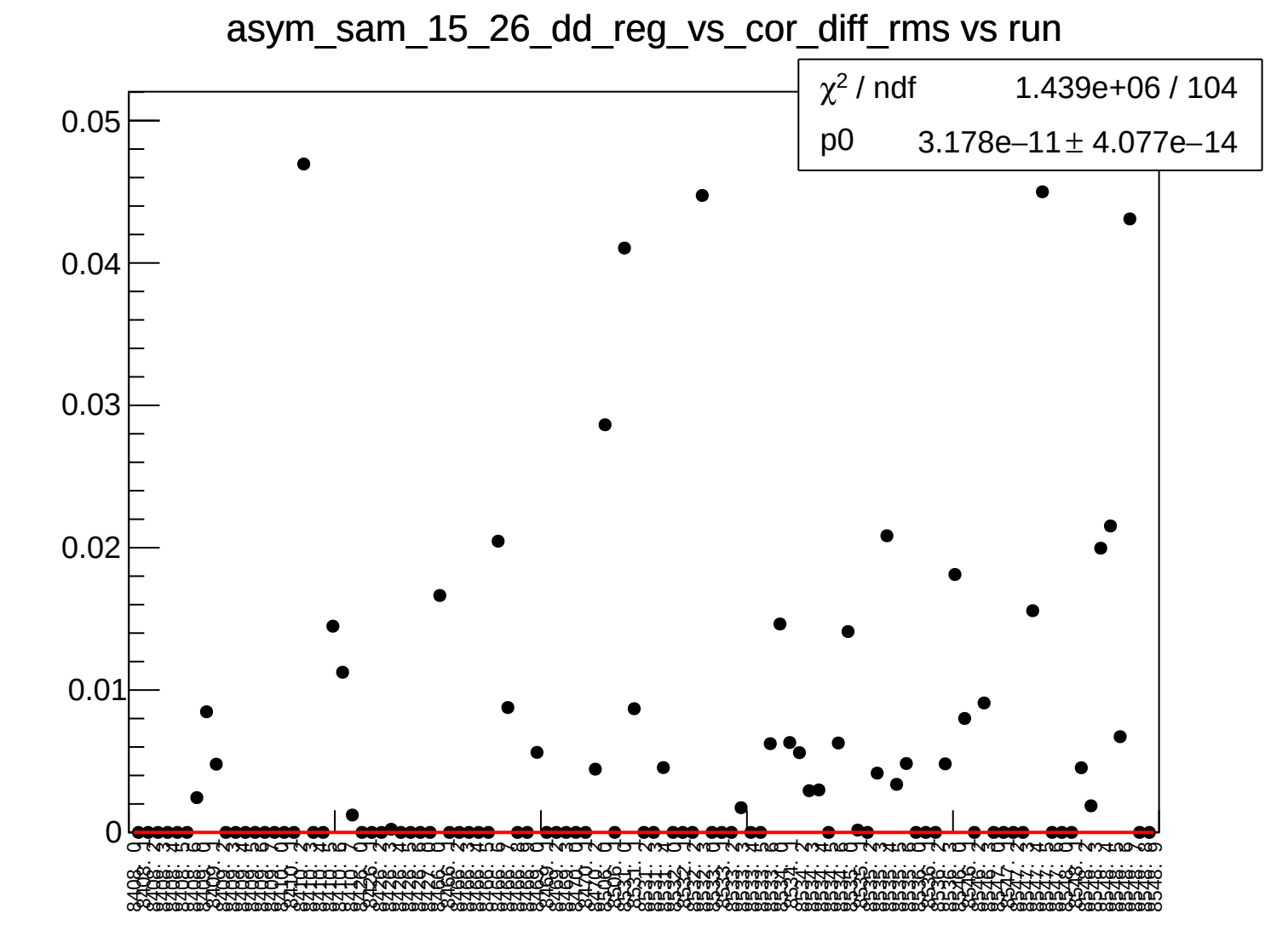

asym_sam_15_26_dd_mean vs run
χ² / ndf 102 / 104
p0 −895.5 ± 612.3
30000
20000
10000
0
−10000
−20000
pull
Entries 105
Mean −583
Std Dev 0
2
1
0
−1
−2

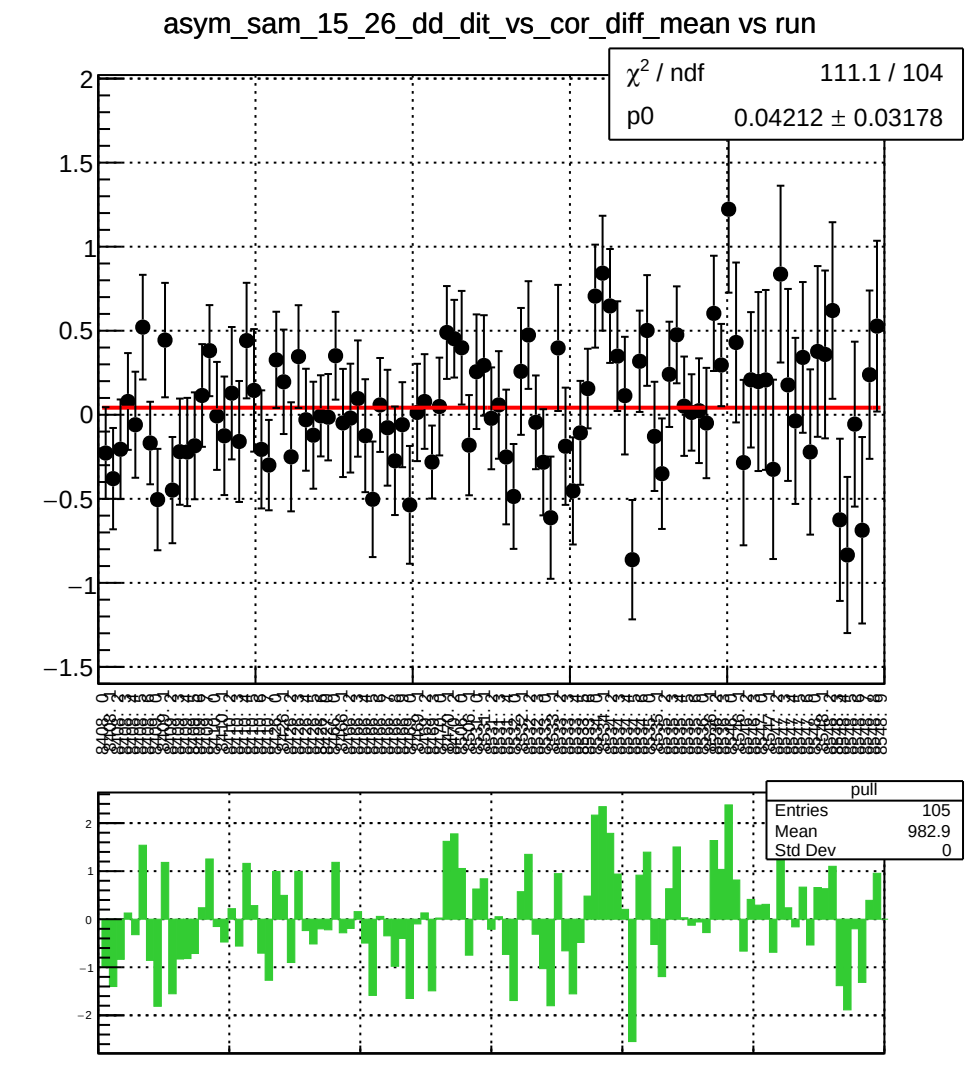

pull1D
Entries 105
Mean 0.001292
Std Dev 0.9857
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

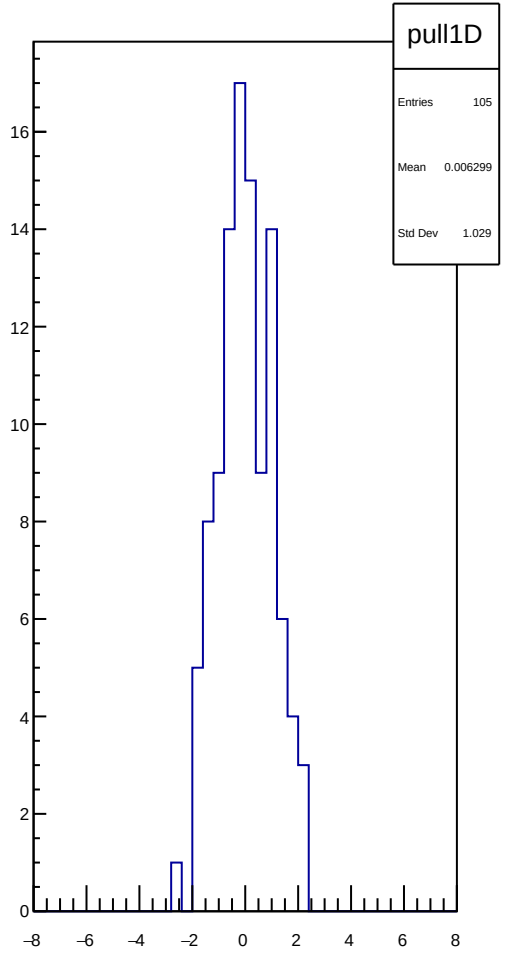

asym_sam_15_26_dd_rms vs run
χ^2 / ndf 6.406e+04 / 104
p0 609.5 ± 0.4329
900
800
700
600
500

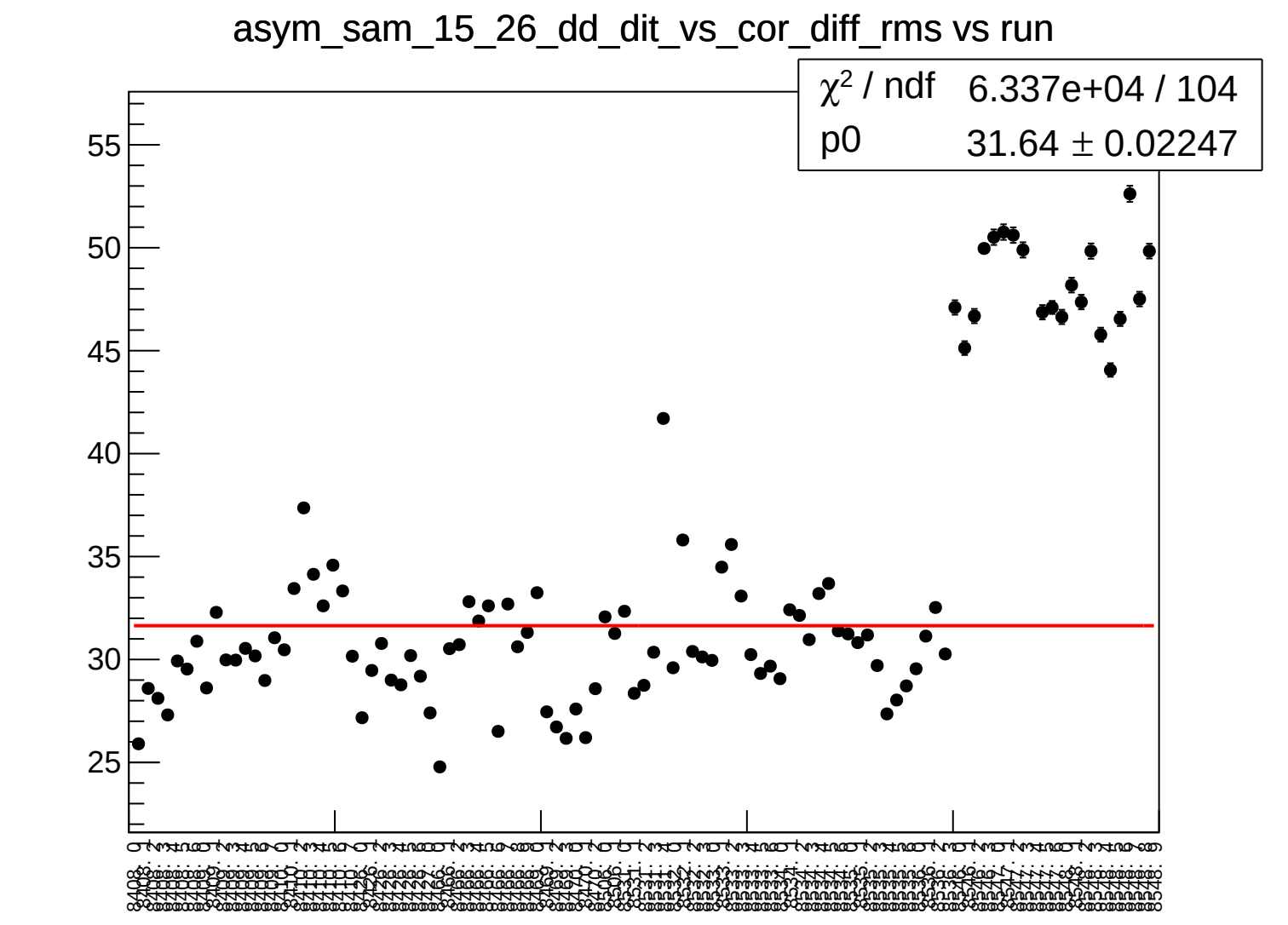

asym_sam_15_26_dd_reg_vs_cor_diff_mean vs run
χ² / ndf 113.2 / 104
p0 3.349e−14 ± 5.766e−14
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 105
Mean 139.2
Std Dev 0
2
1
0
−1
−2

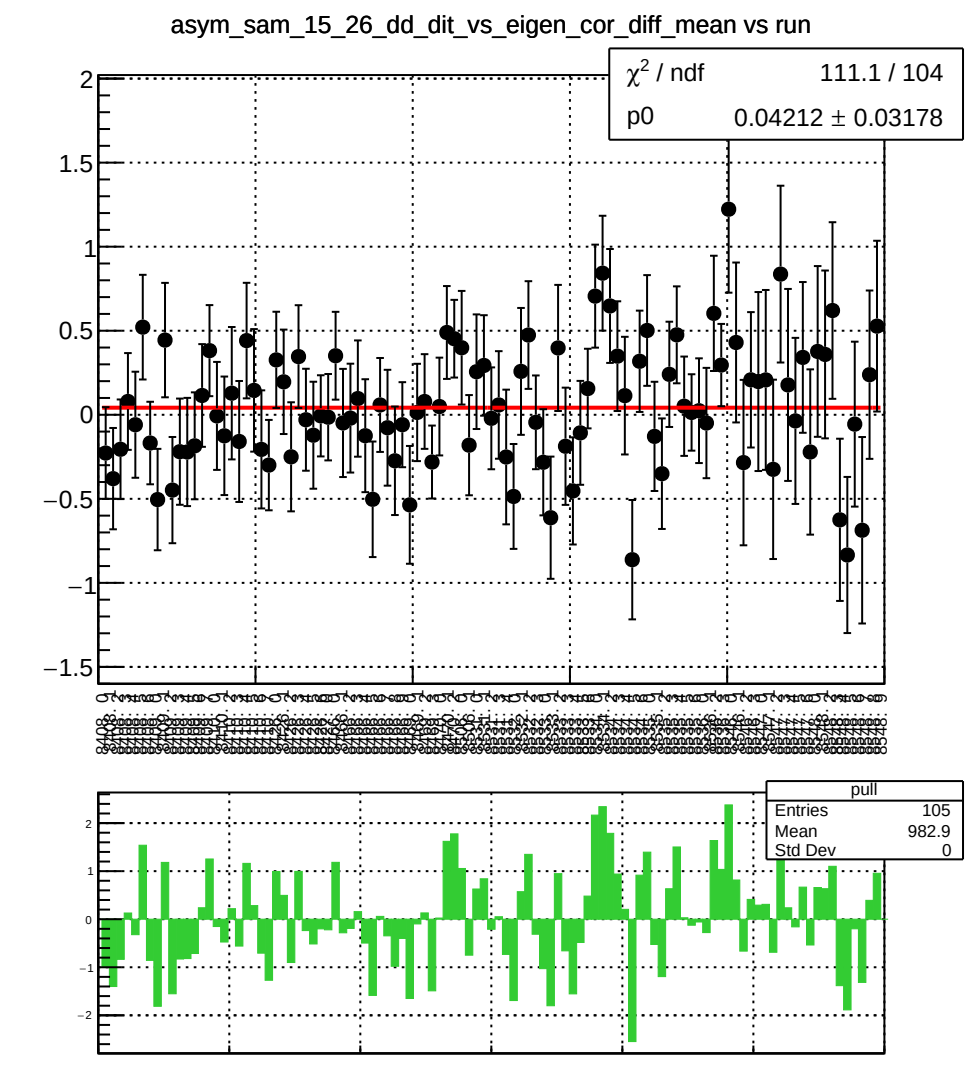

pull1D
Entries 105
Mean −0.08894
Std Dev 1.034
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

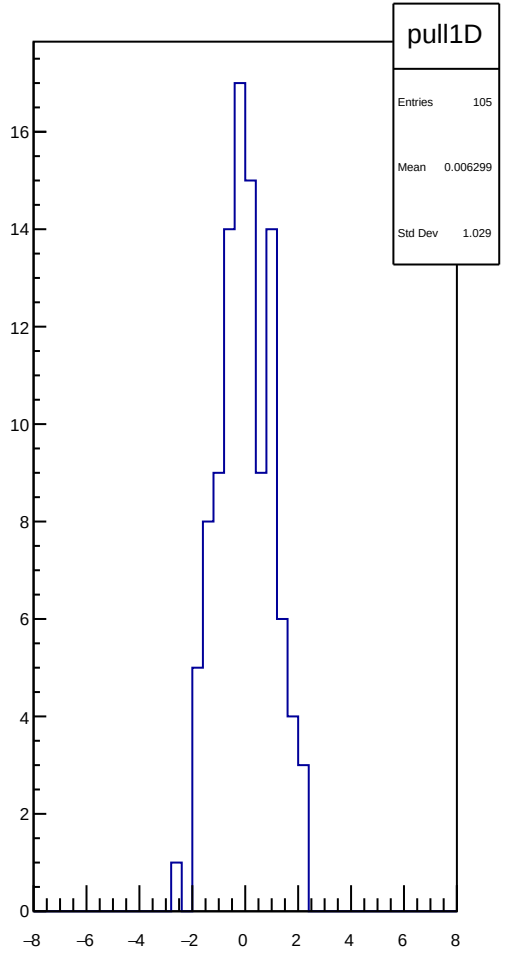

asym_sam_15_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.439e+06 / 104
p0 3.178e−11 ± 4.077e−14
0.05
0.04
0.03
0.02
0.01
0

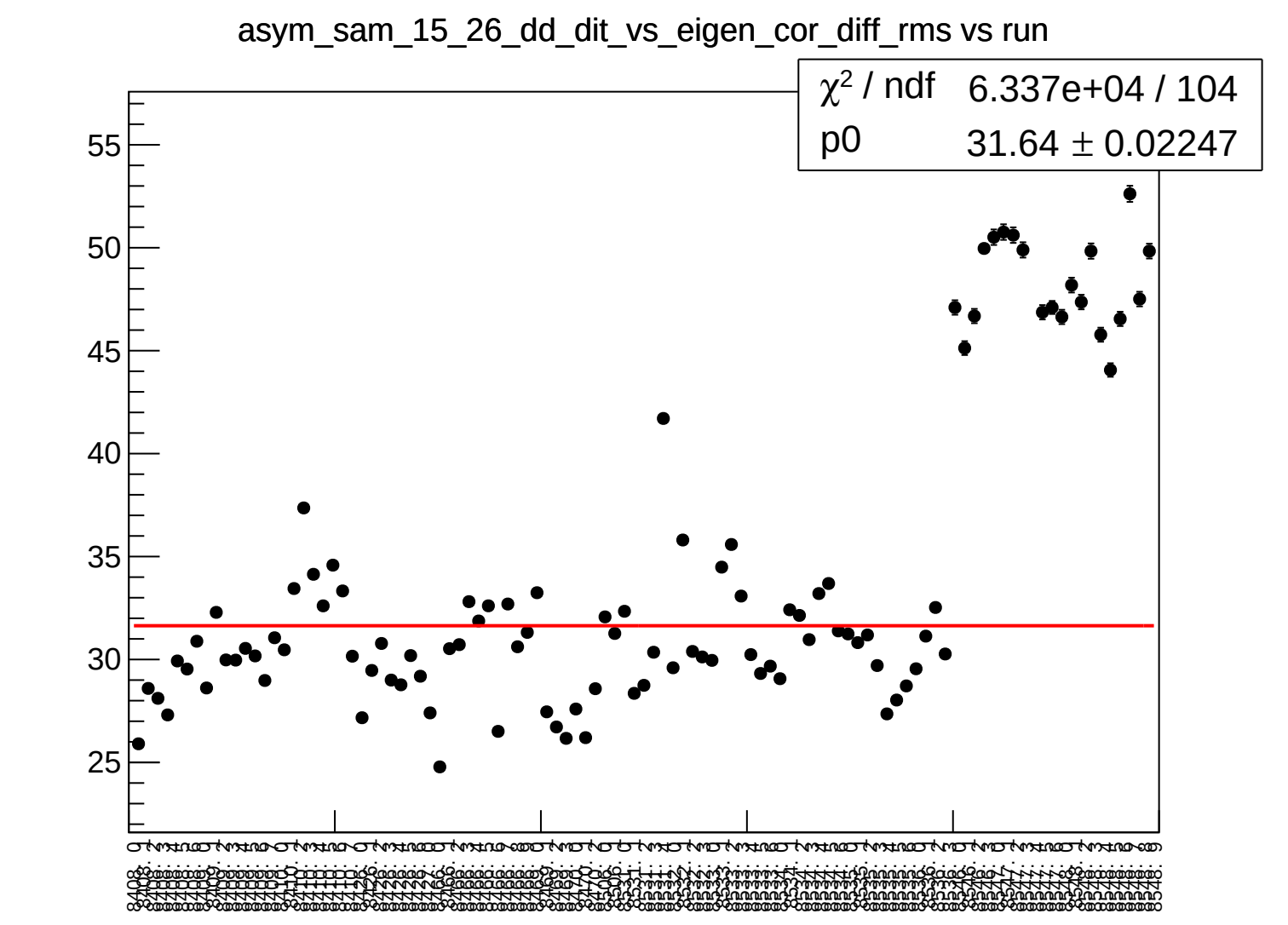

asym_sam_15_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 111.1 / 104
p0 0.04212 ± 0.03178
pull
Entries 105
Mean 982.9
Std Dev 0

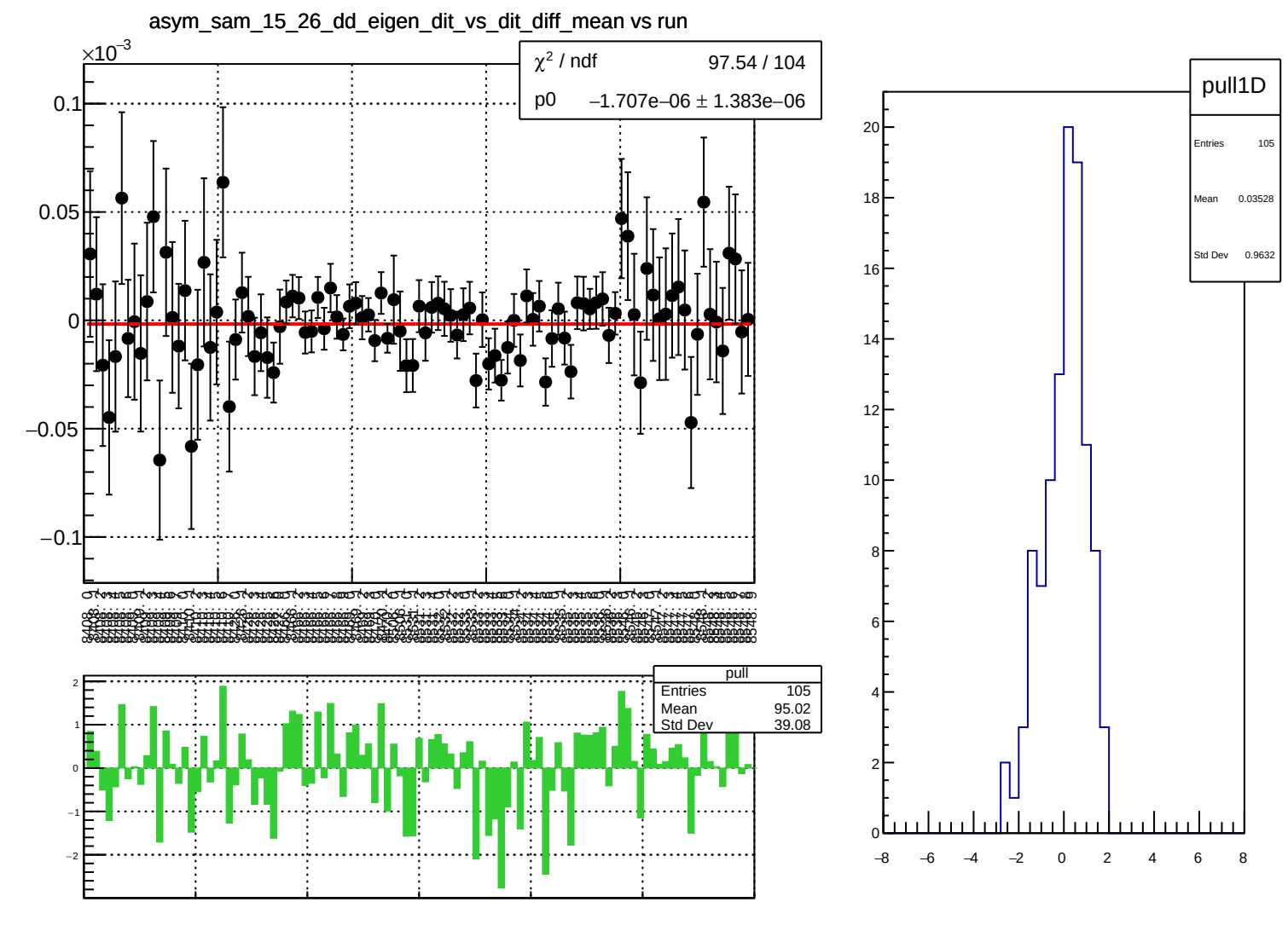

pull1D
Entries 105
Mean 0.006299
Std Dev 1.029

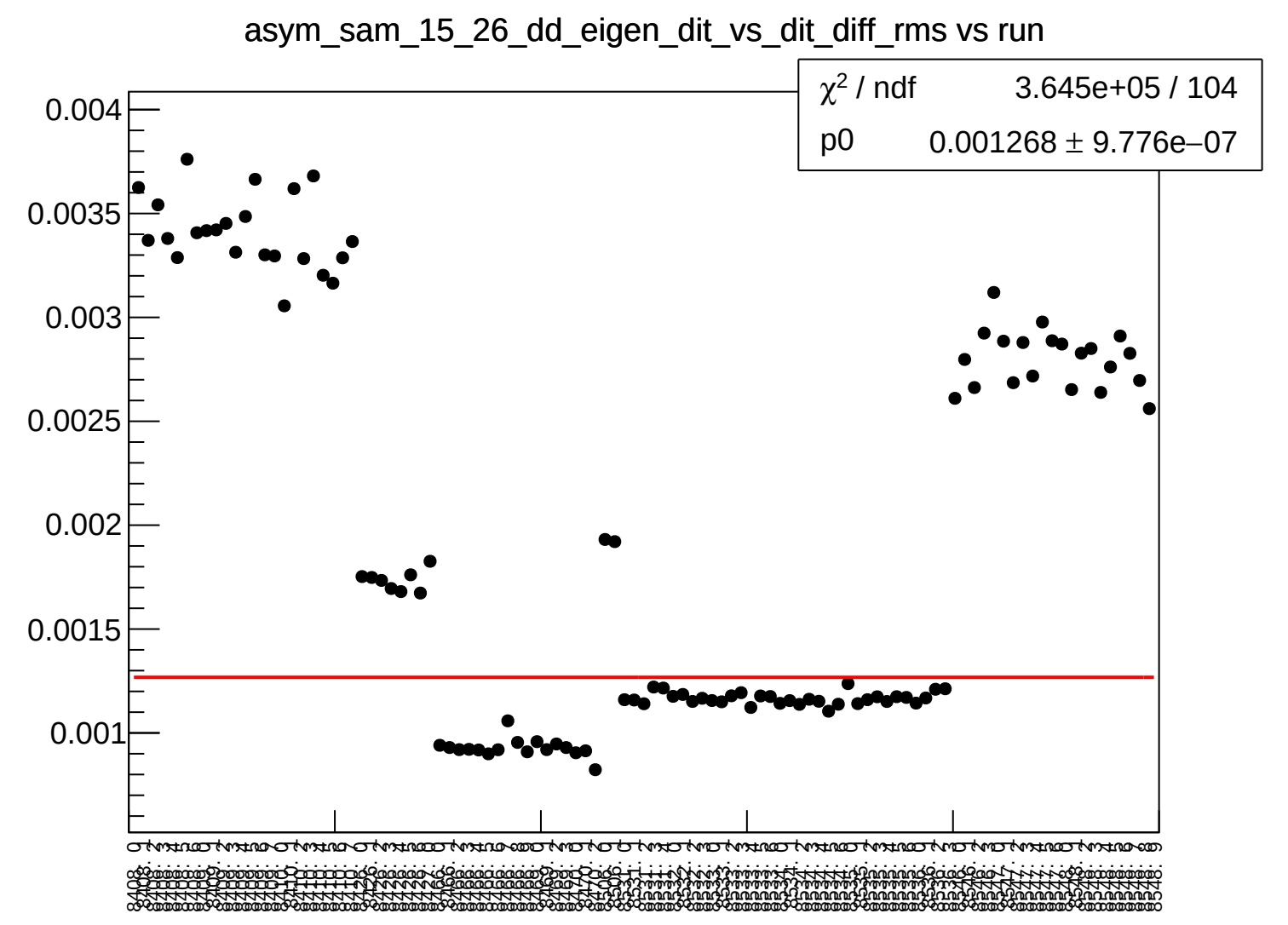

asym_sam_15_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.337e+04 / 104
p0 31.64 ± 0.02247
55
50
45
40
35
30
25

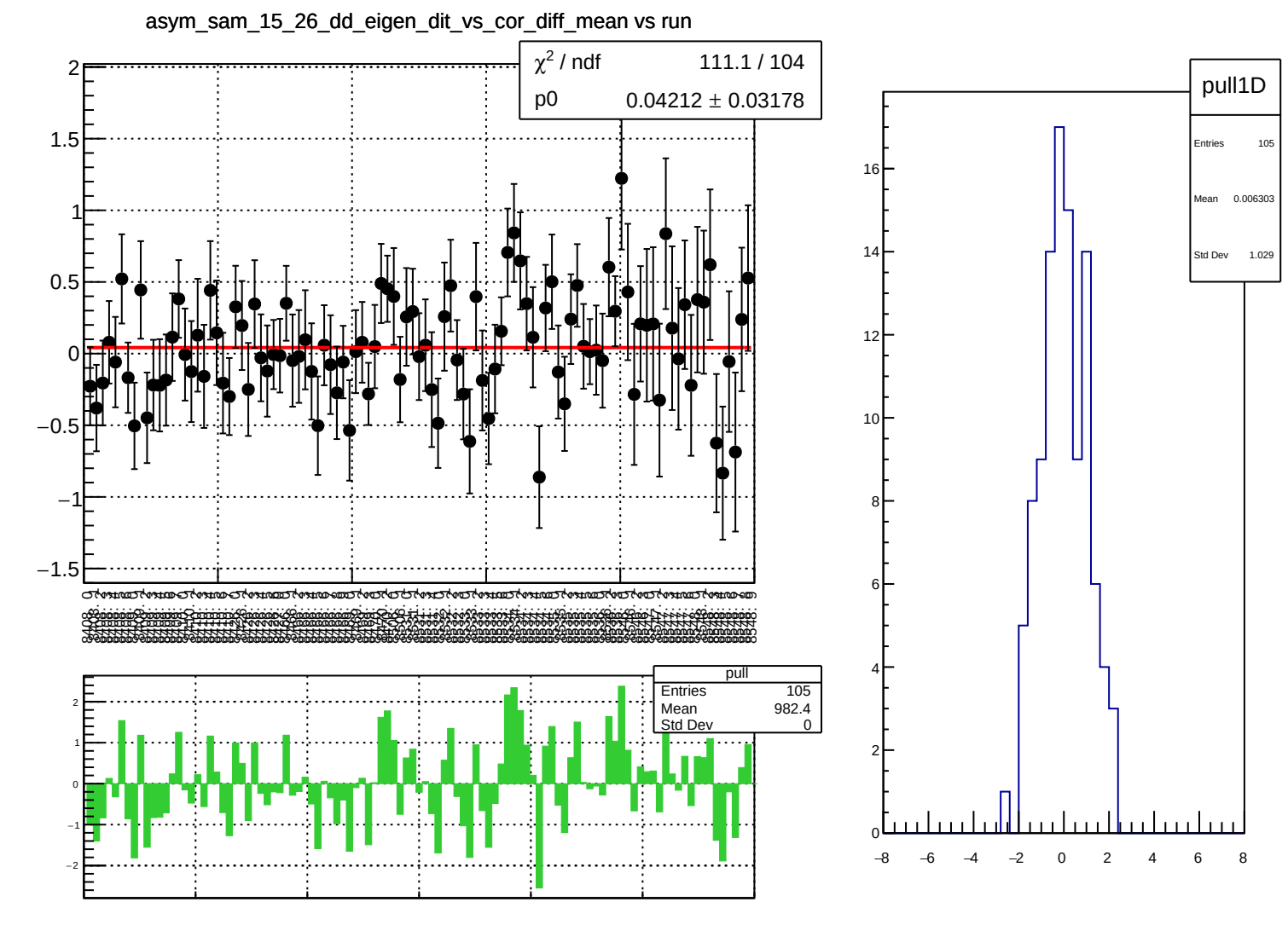

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 111.1 / 104
p0 0.04212 ± 0.03178
pull
Entries 105
Mean 982.9
Std Dev 0

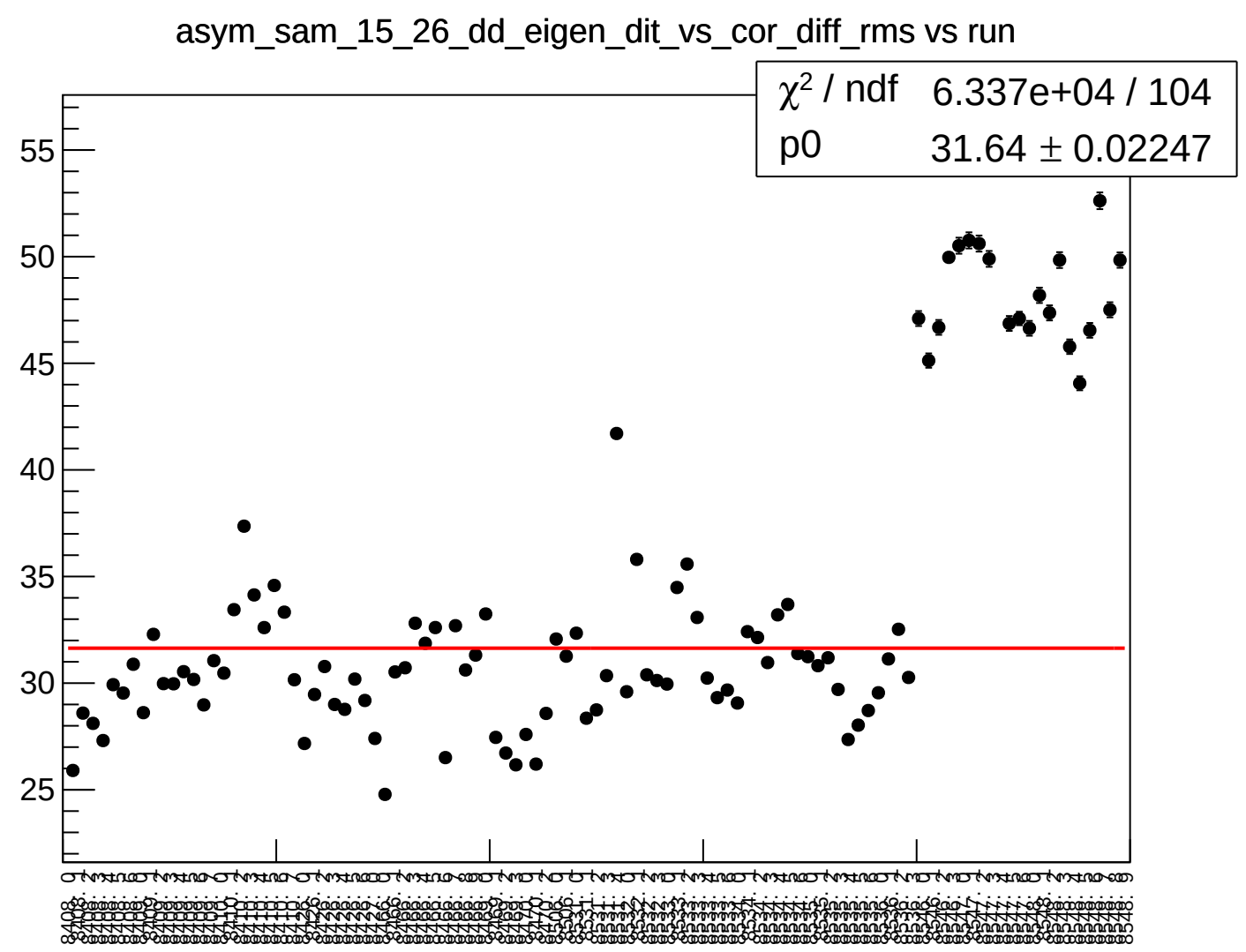

pull1D
Entries 105
Mean 0.006299
Std Dev 1.029

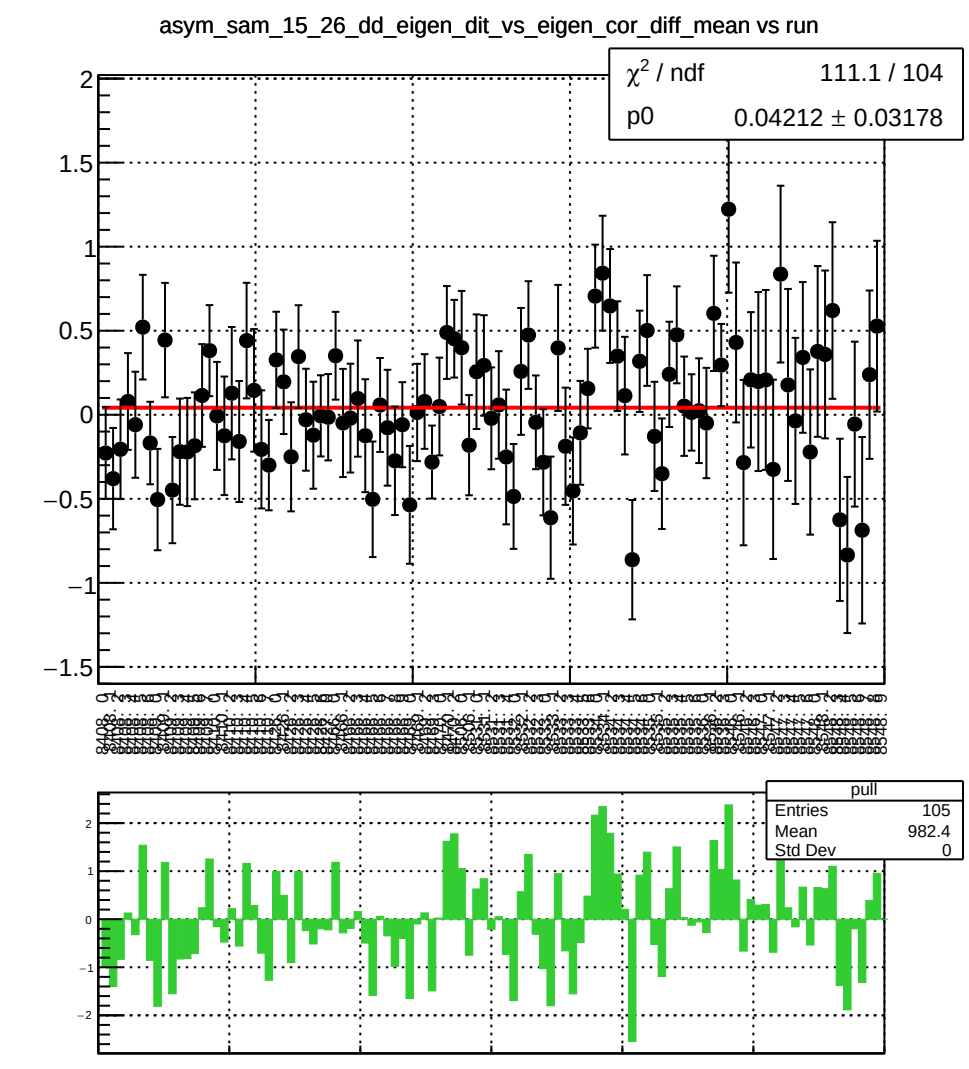

asym_sam_15_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.337e+04 / 104
p0 31.64 ± 0.02247
55
50
45
40
35
30
25

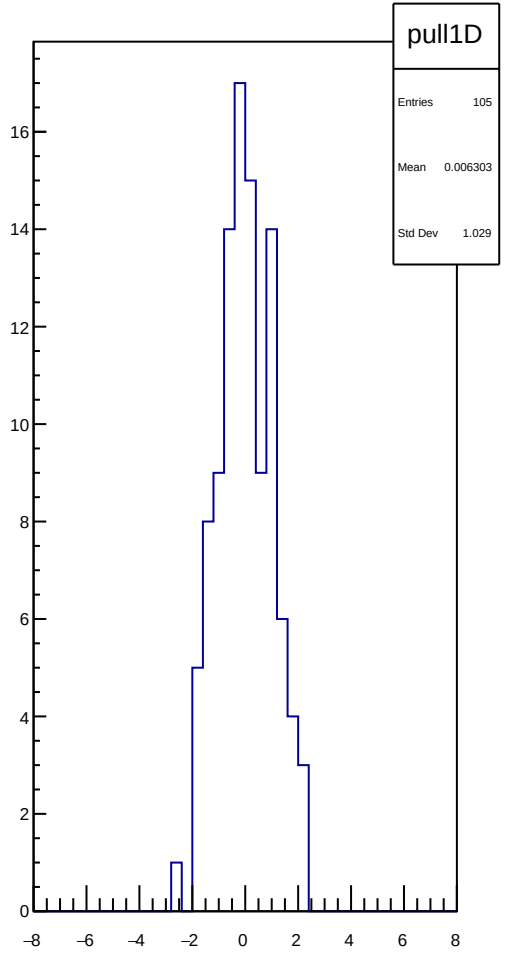

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10^−3
χ² / ndf 97.54 / 104
p0 −1.707e−06 ± 1.383e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 105
Mean 95.02
Std Dev 39.08
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.03528
Std Dev 0.9632
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

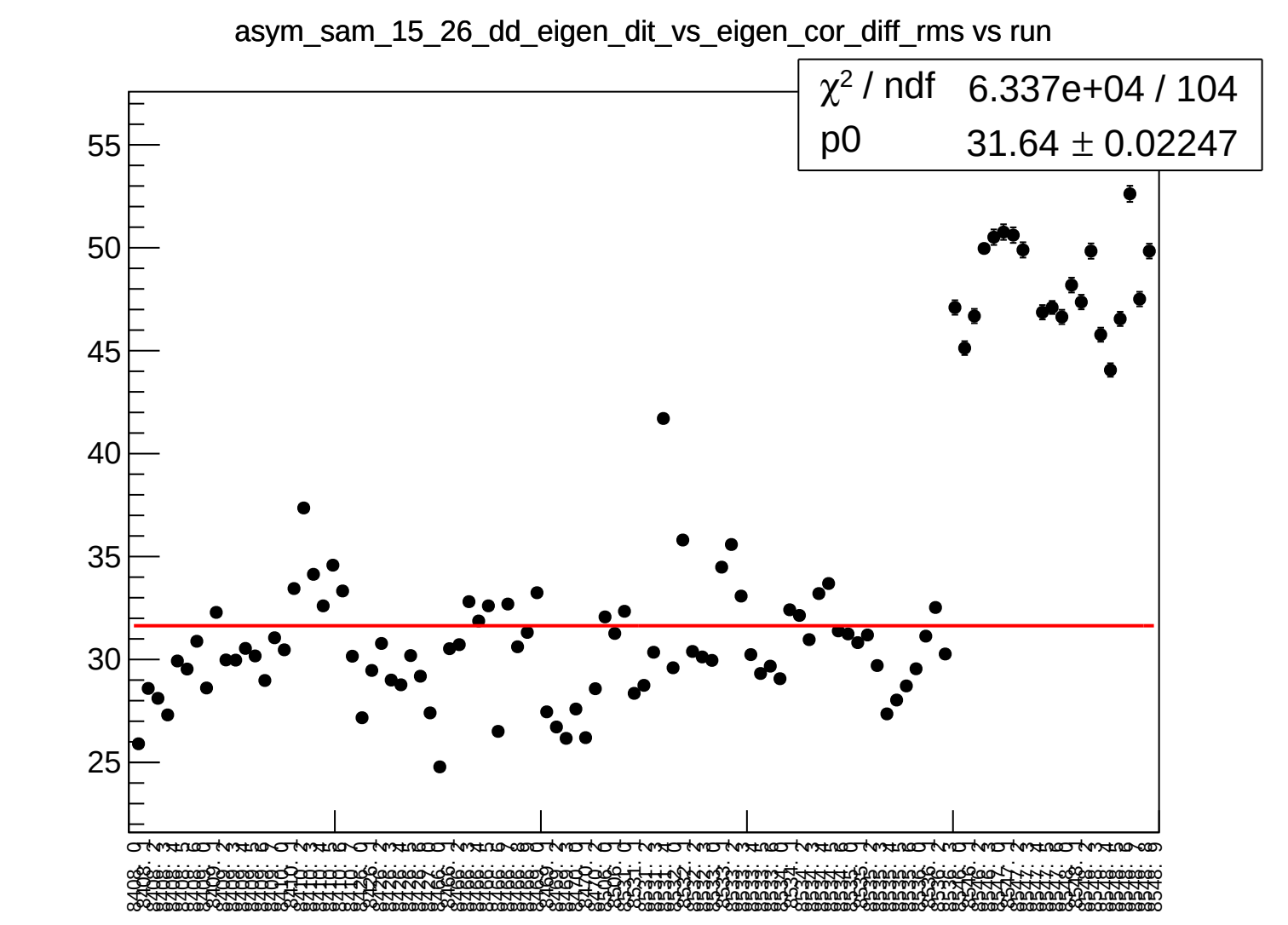

asym_sam_15_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.645e+05 / 104
p0 0.001268 ± 9.776e−07
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001

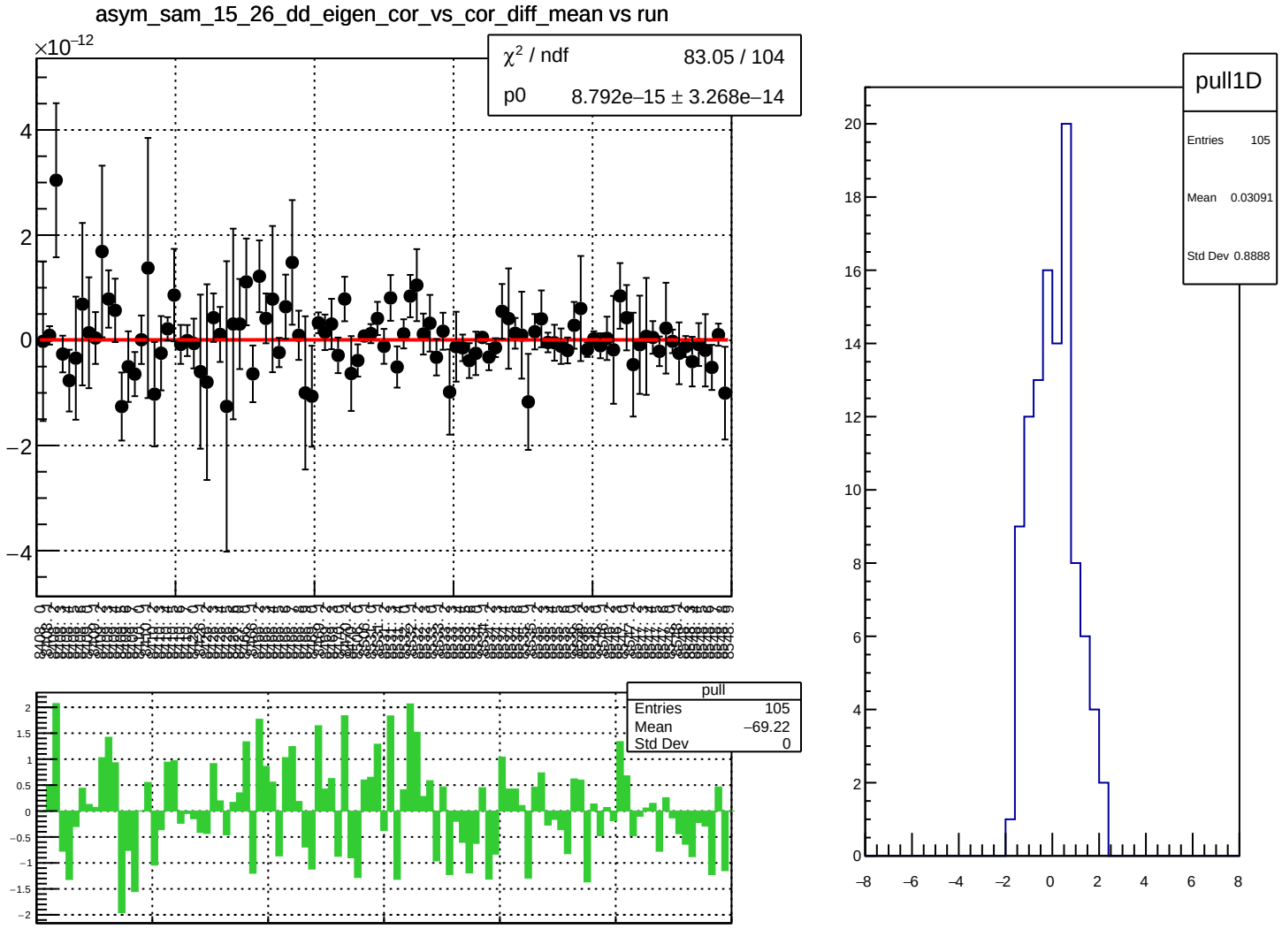

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 111.1 / 104
p0 0.04212 ± 0.03178
pull
Entries 105
Mean 982.4
Std Dev 0
pull1D
Entries 105
Mean 0.006303
Std Dev 1.029

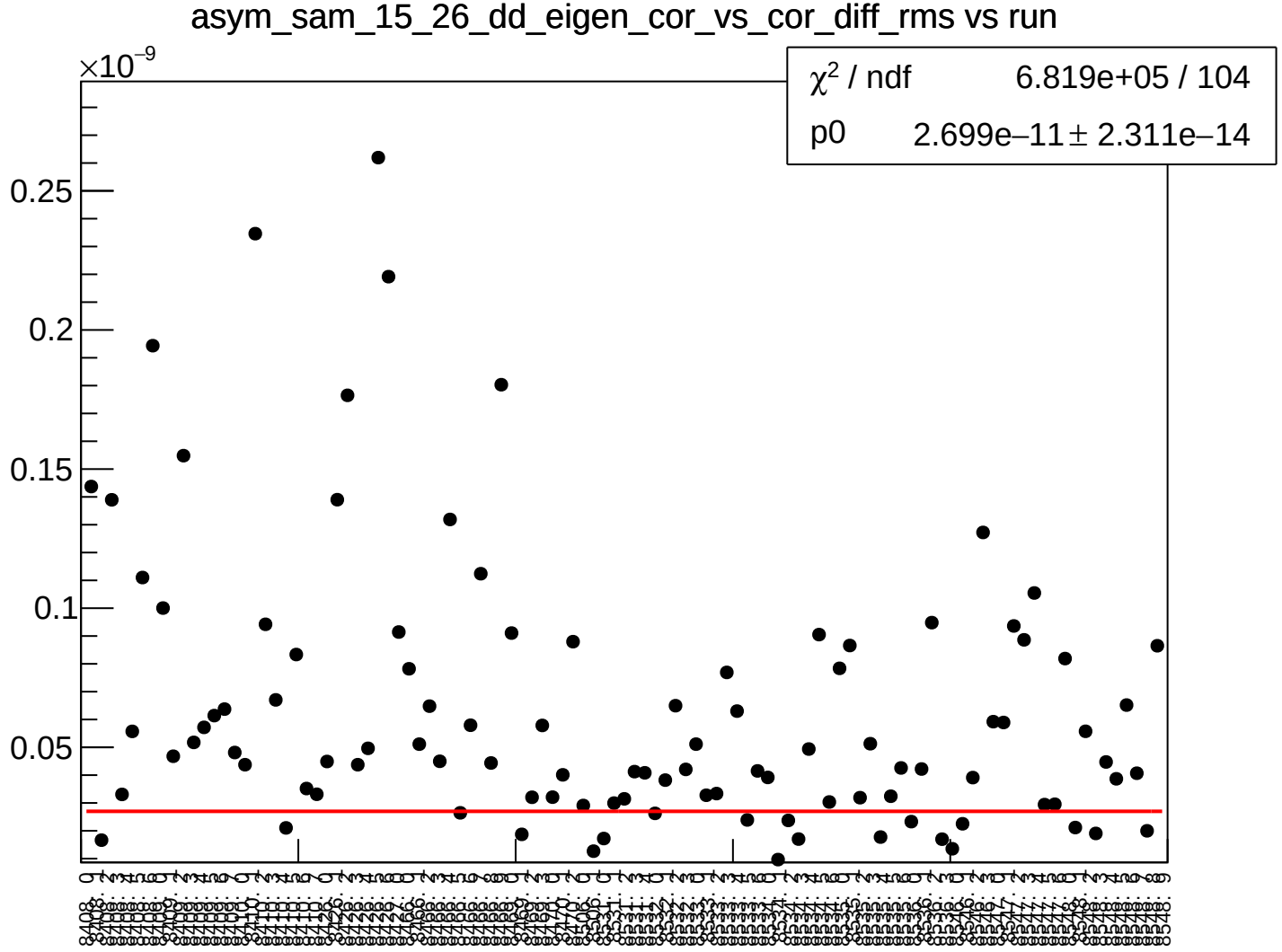

asym_sam_15_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.337e+04 / 104
p0 31.64 ± 0.02247
55
50
45
40
35
30
25

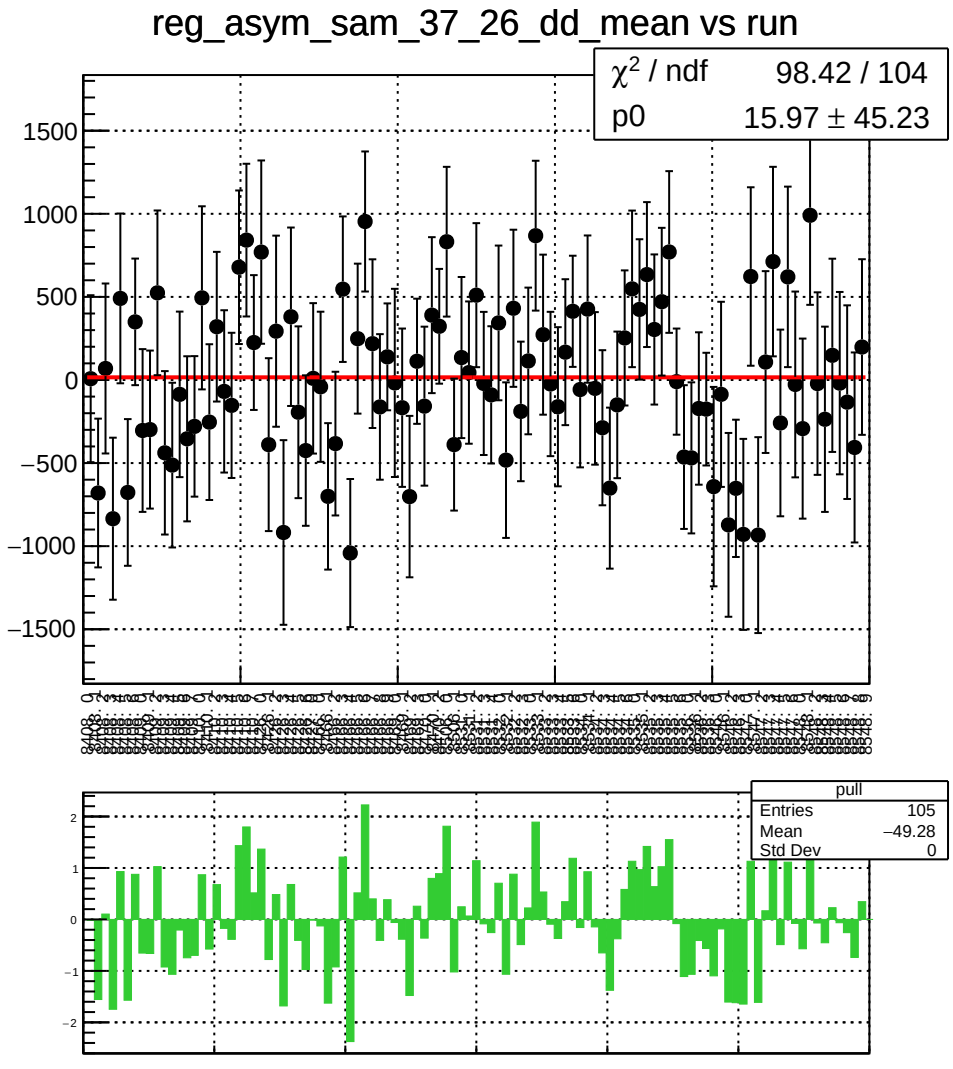

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 111.1 / 104
p0 0.04212 ± 0.03178
pull
Entries 105
Mean 982.4
Std Dev 0

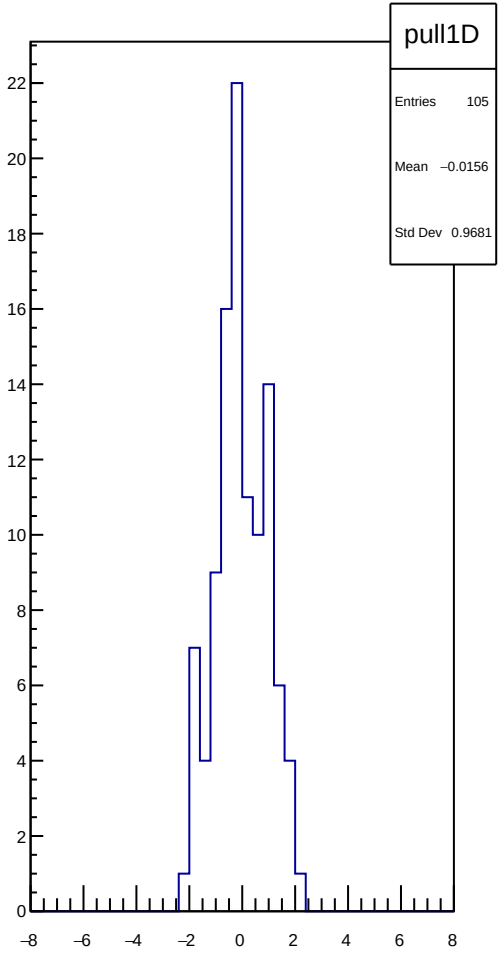

pull1D
Entries 105
Mean 0.006303
Std Dev 1.029

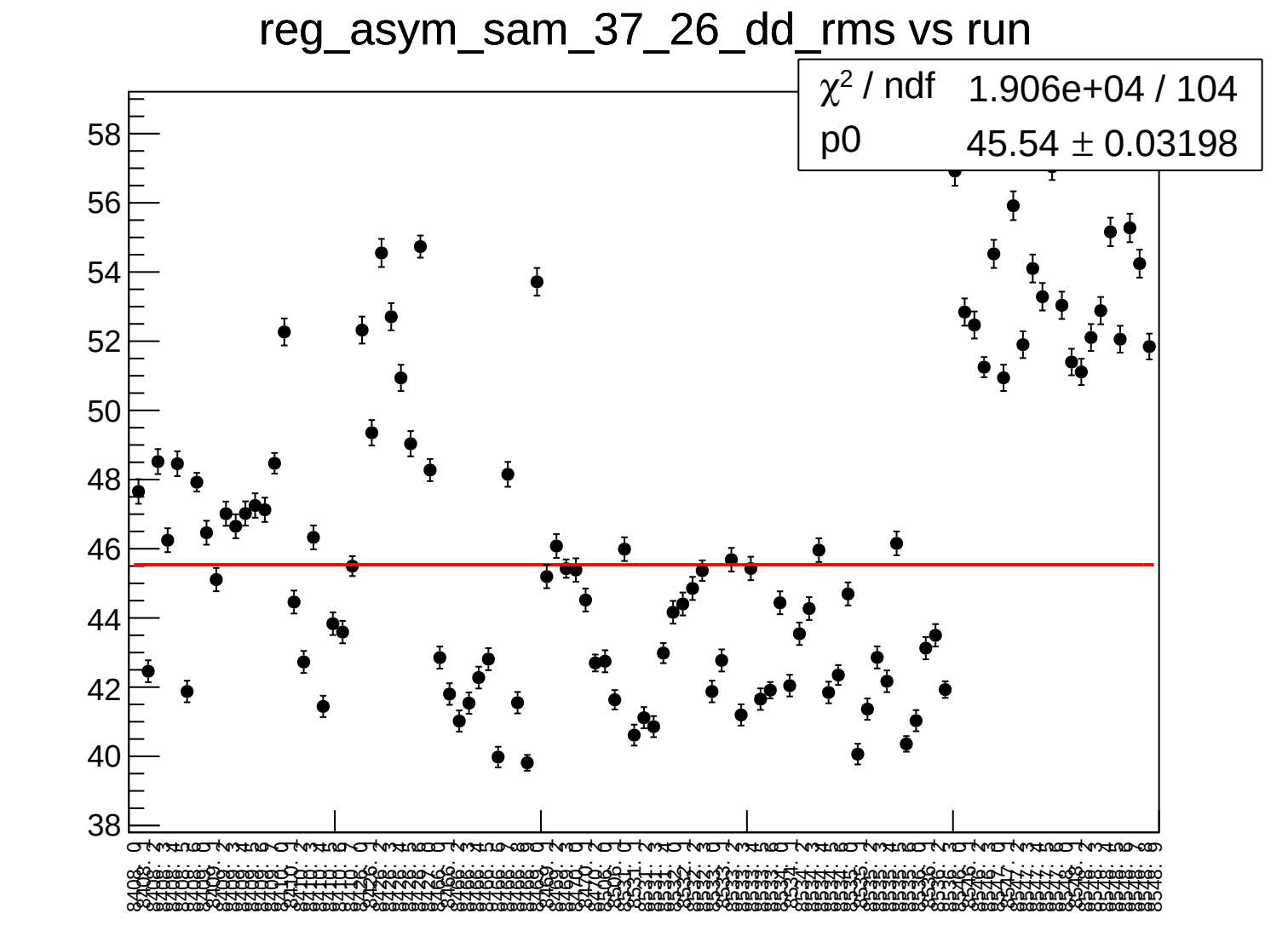

asym_sam_15_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.337e+04 / 104
p0 31.64 ± 0.02247
55
50
45
40
35
30
25

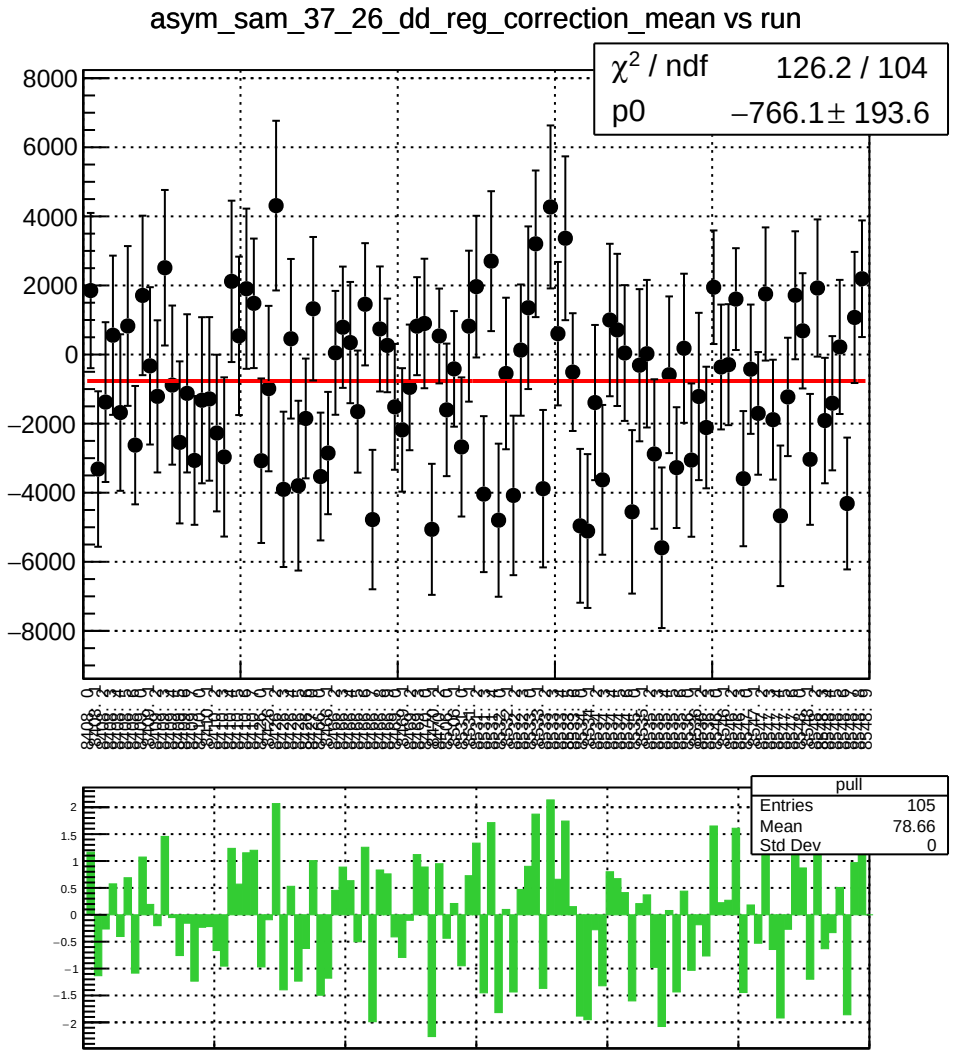

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 83.05 / 104
p0 8.792e−15 ± 3.268e−14
pull
Entries 105
Mean −69.22
Std Dev 0
pull1D
Entries 105
Mean 0.03091
Std Dev 0.8888

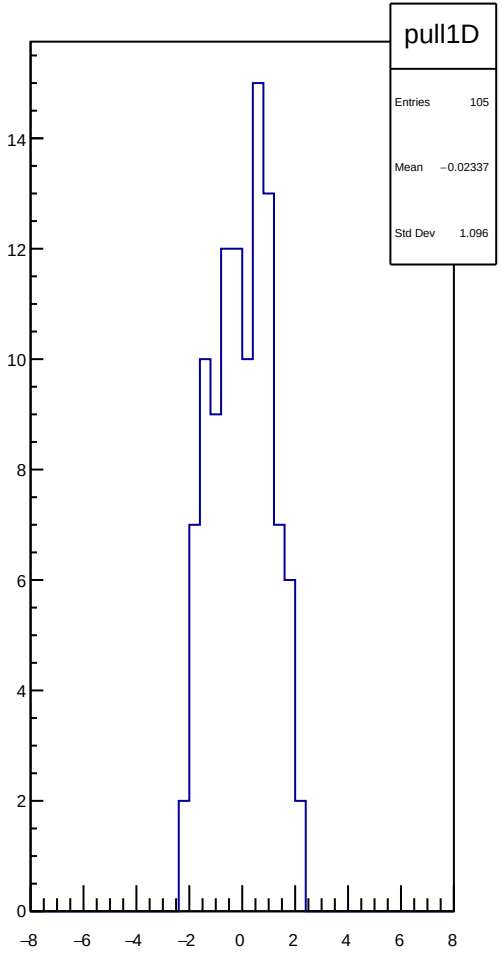

asym_sam_15_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.819e+05 / 104
p0 2.699e−11 ± 2.311e−14
0.25
0.2
0.15
0.1
0.05

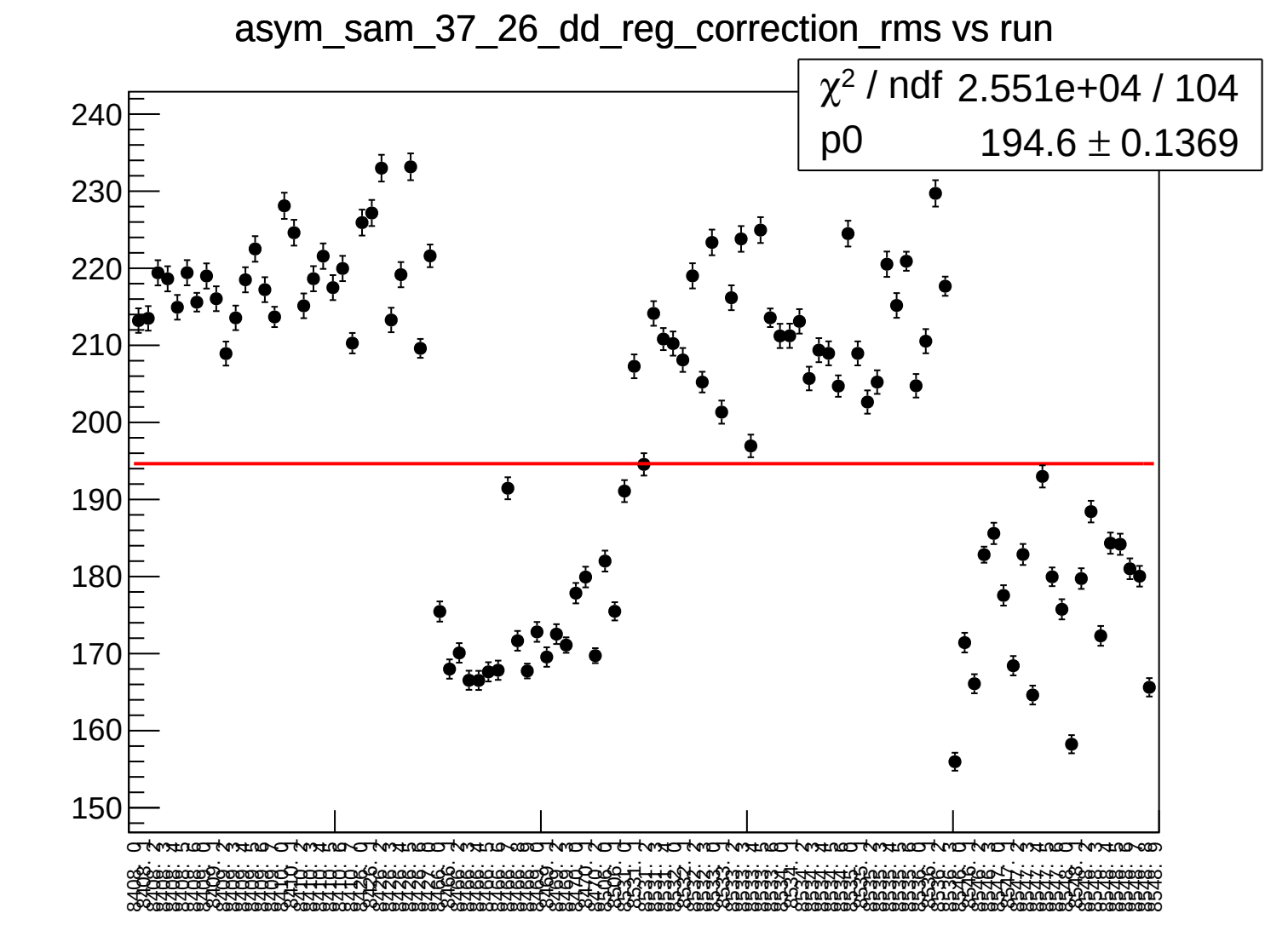

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 98.42 / 104
p0 15.97 ± 45.23
1500
1000
500
0
−500
−1000
−1500
pull
Entries 105
Mean −49.28
Std Dev 0
2
1
0
−1
−2

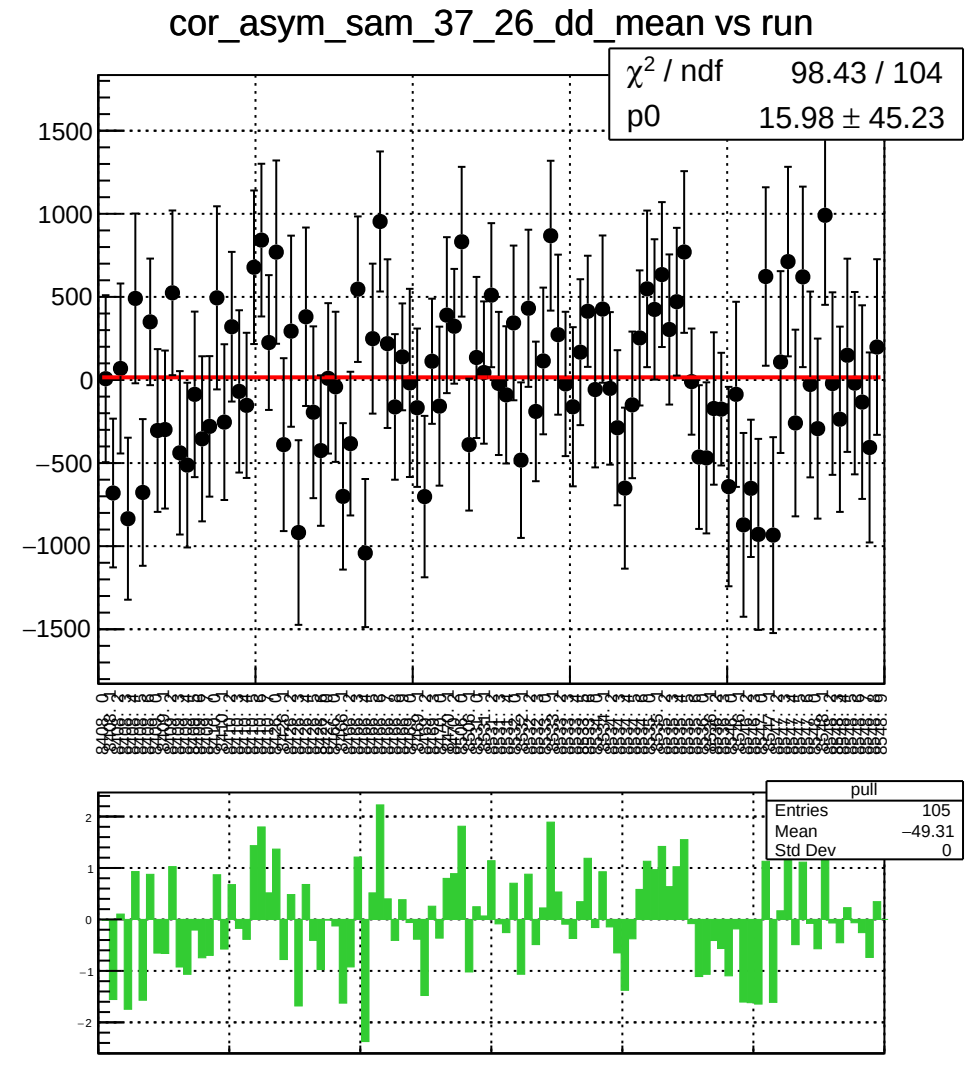

pull1D
Entries 105
Mean −0.0156
Std Dev 0.9681
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

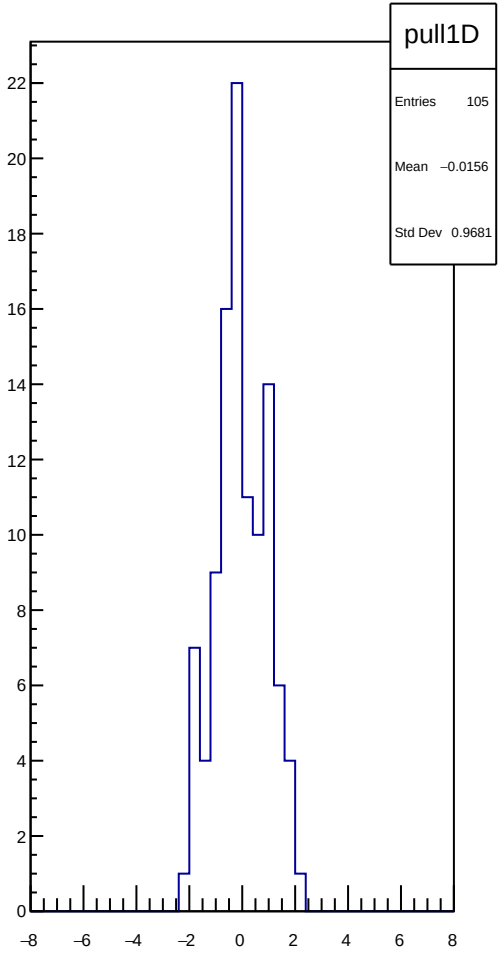

reg_asym_sam_37_26_dd_rms vs run
χ² / ndf 1.906e+04 / 104
p0 45.54 ± 0.03198
58
56
54
52
50
48
46
44
42
40
38

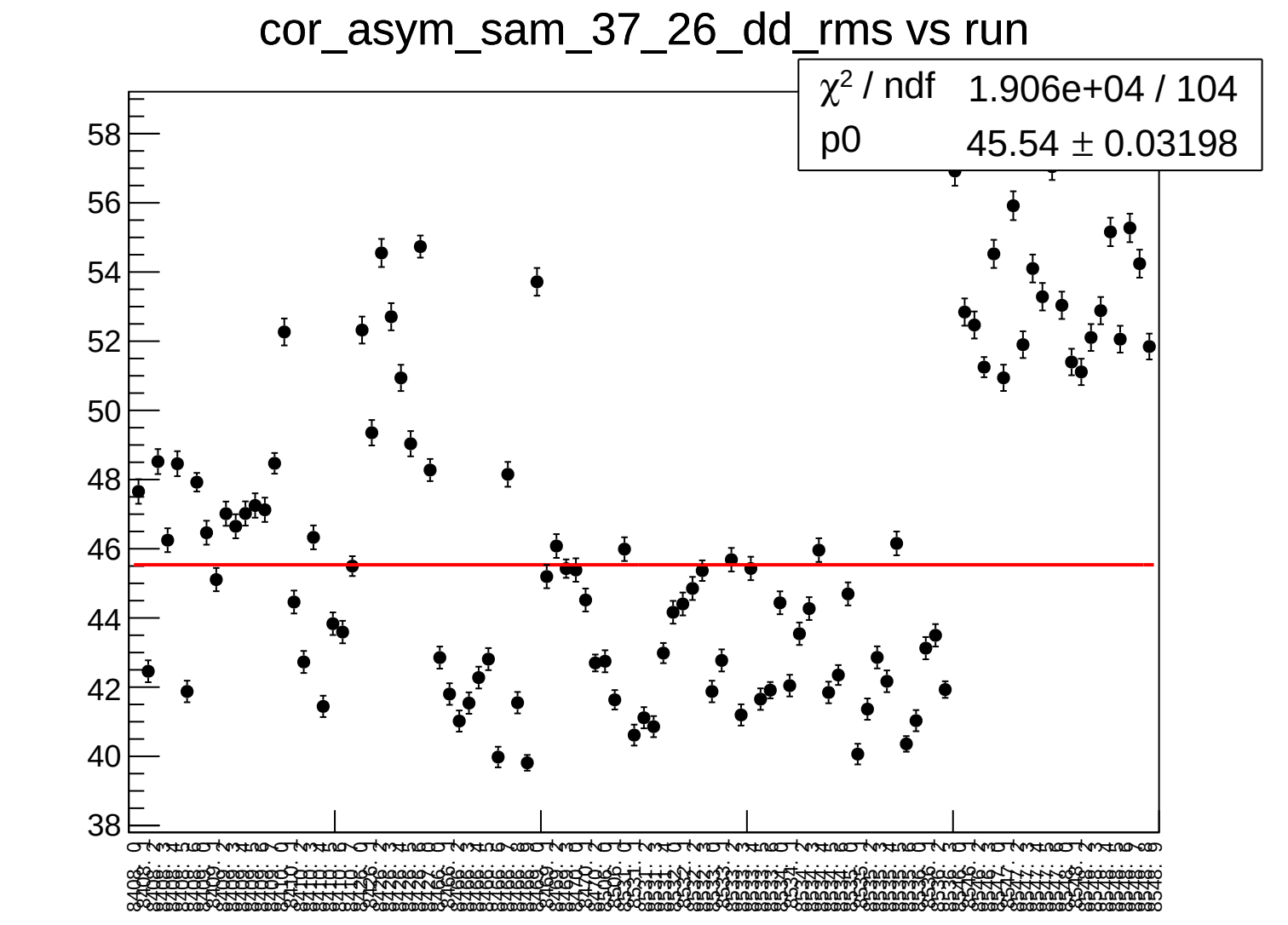

asym_sam_37_26_dd_reg_correction_mean vs run
χ² / ndf 126.2 / 104
p0 −766.1± 193.6
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 105
Mean 78.66
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

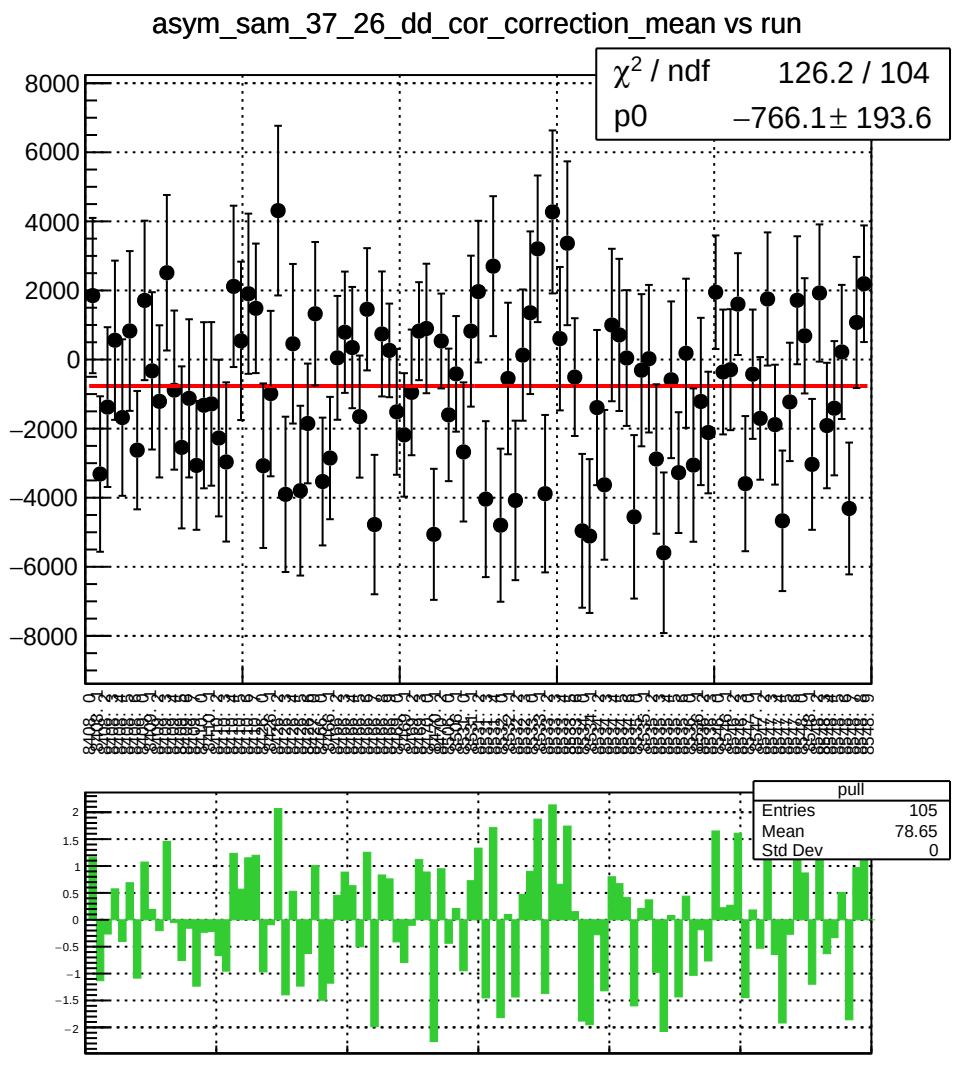

pull1D
Entries 105
Mean −0.02337
Std Dev 1.096
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

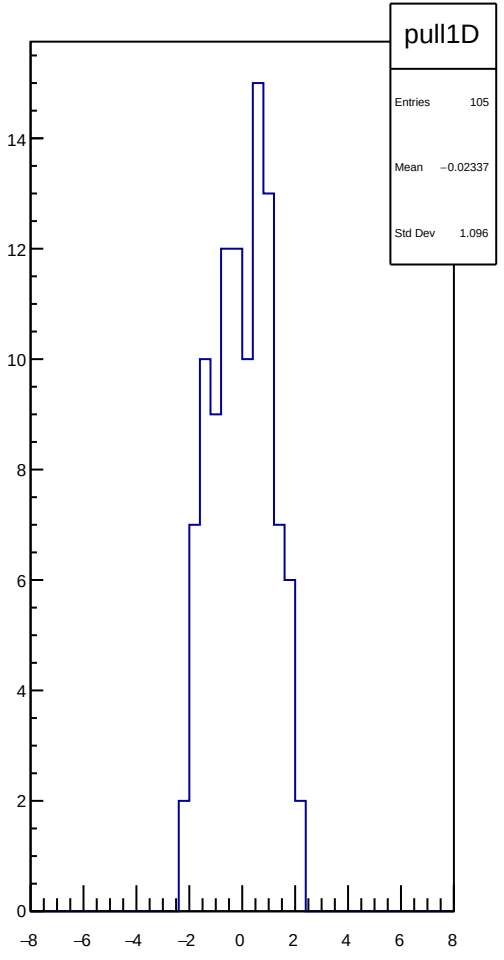

asym_sam_37_26_dd_reg_correction_rms vs run
χ² / ndf 2.551e+04 / 104
p0 194.6 ± 0.1369
240
230
220
210
200
190
180
170
160
150

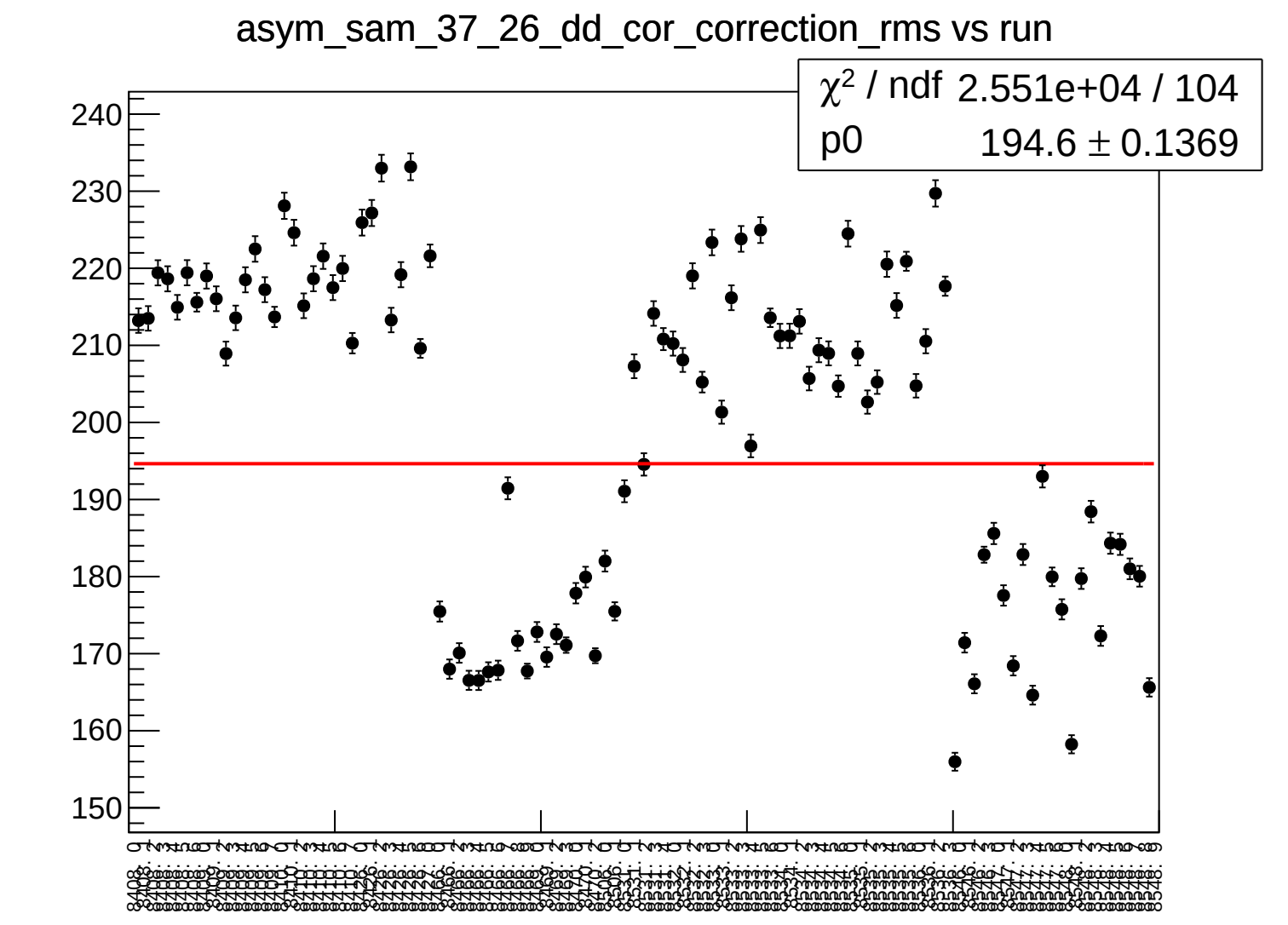

cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 98.43 / 104
p0 15.98 ± 45.23
1500
1000
500
0
−500
−1000
−1500
pull
Entries 105
Mean −49.31
Std Dev 0
2
1
0
−1
−2

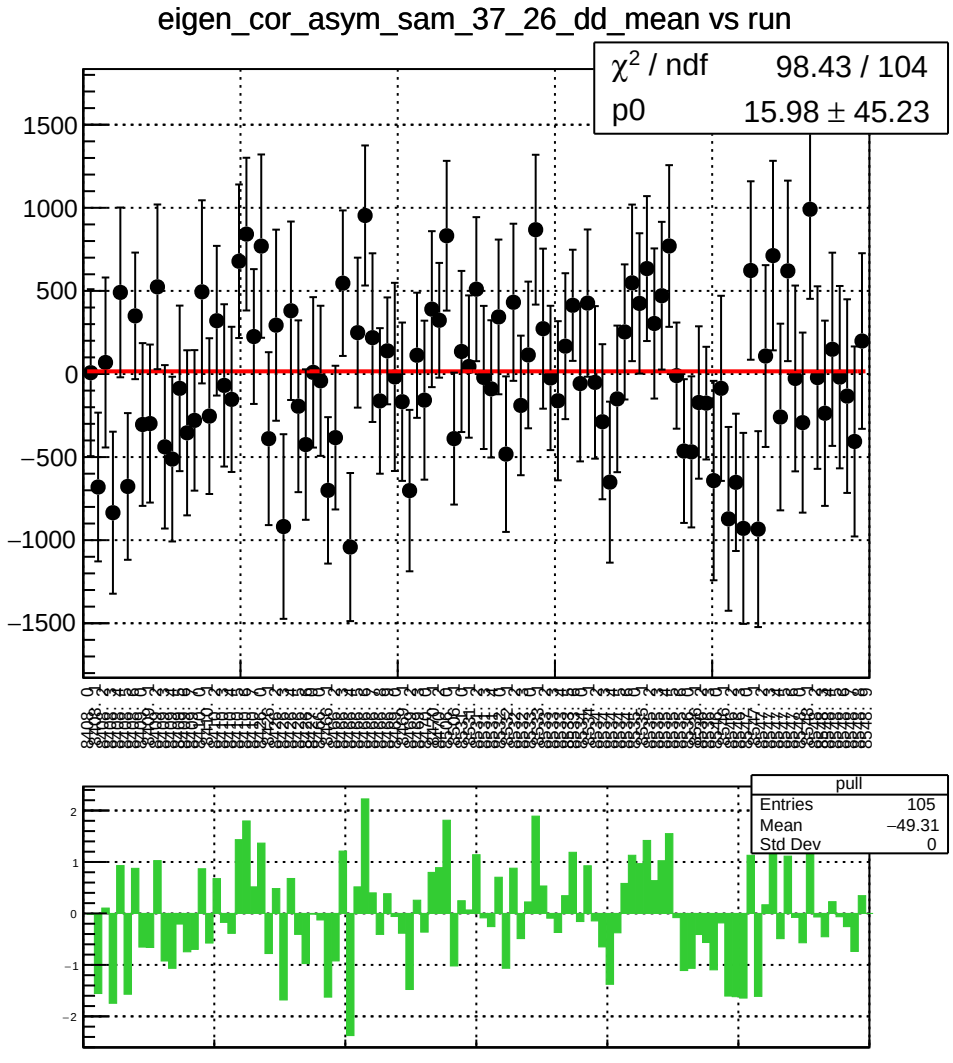

pull1D
Entries 105
Mean −0.0156
Std Dev 0.9681
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

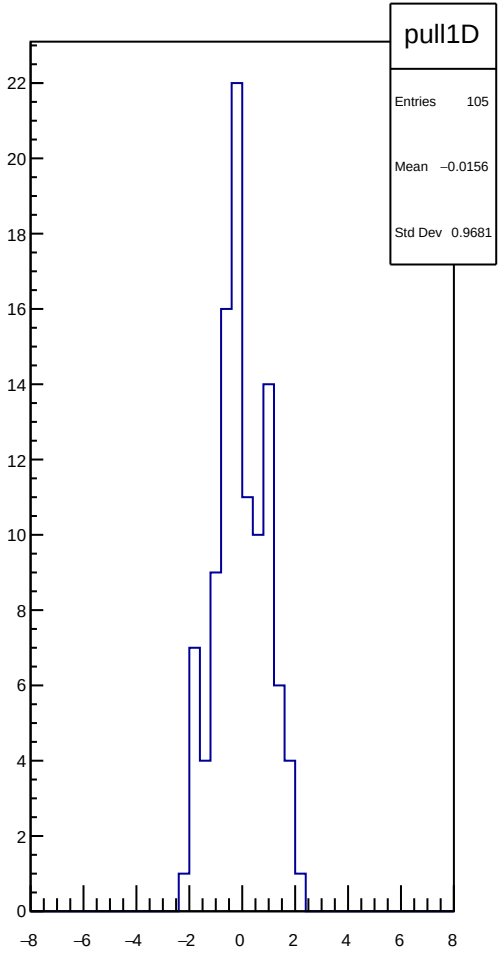

cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 1.906e+04 / 104
p0 45.54 ± 0.03198
58
56
54
52
50
48
46
44
42
40
38

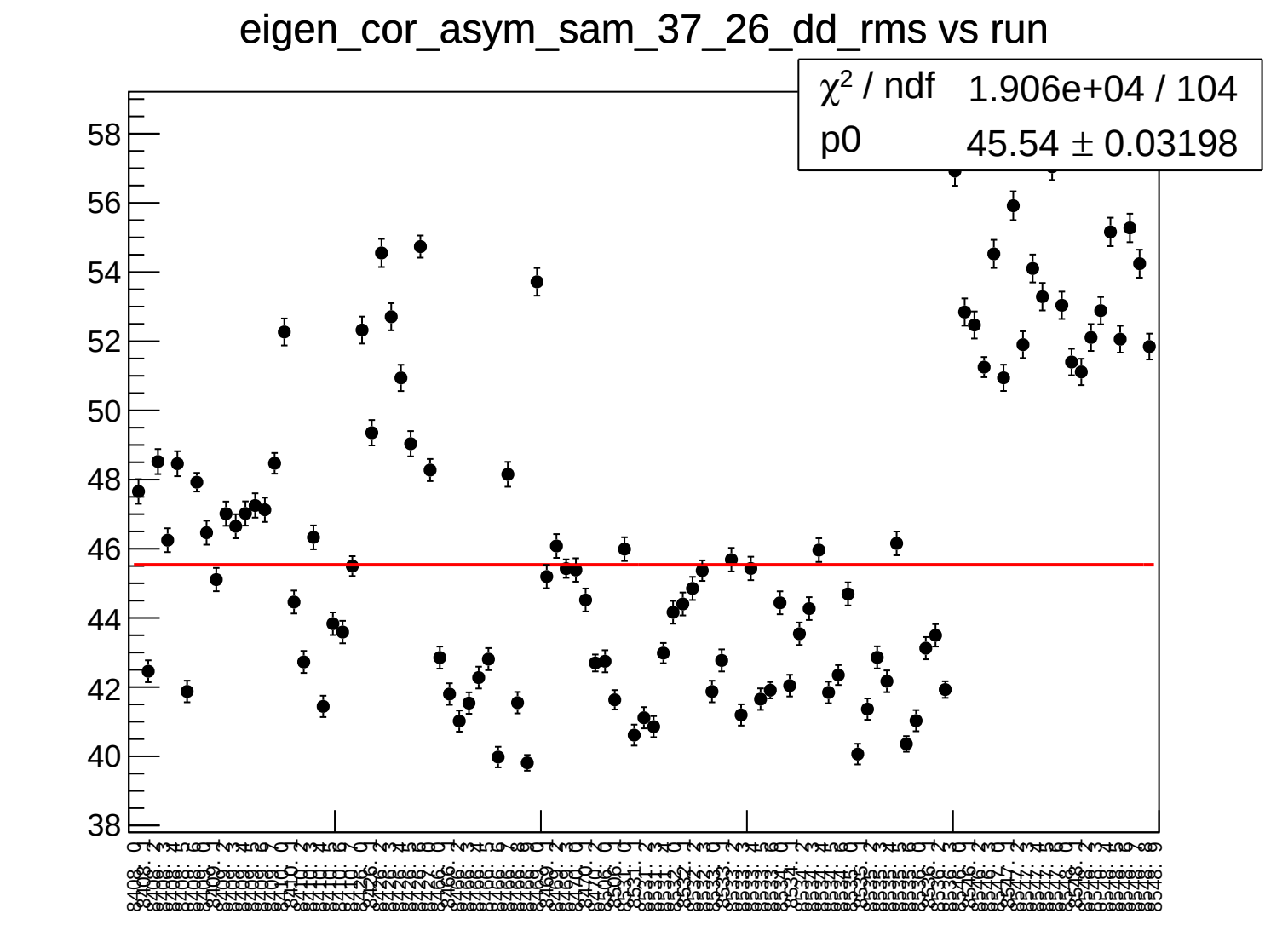

asym_sam_37_26_dd_cor_correction_mean vs run
χ² / ndf 126.2 / 104
p0 −766.1± 193.6
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 105
Mean 78.65
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

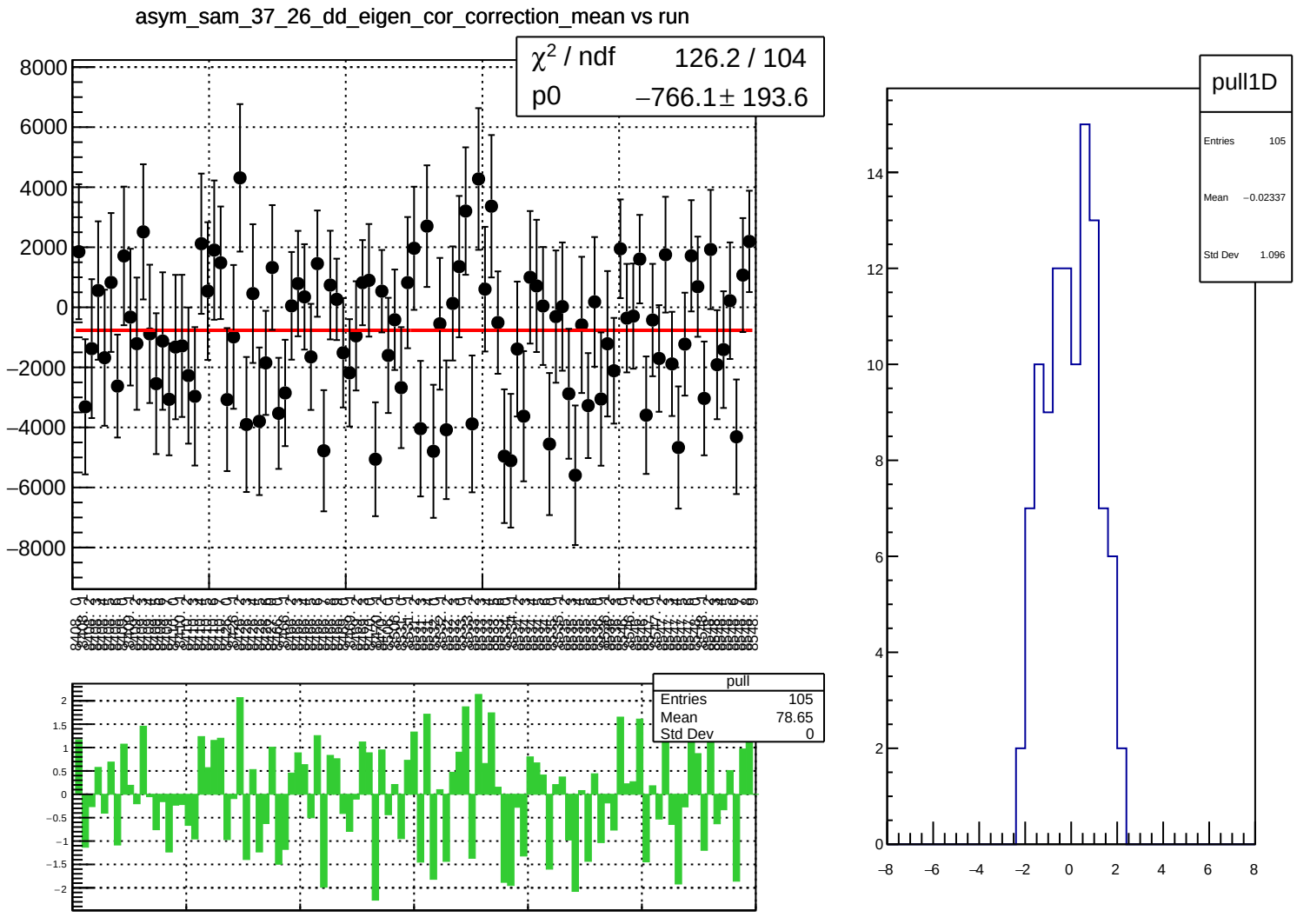

pull1D
Entries 105
Mean −0.02337
Std Dev 1.096
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

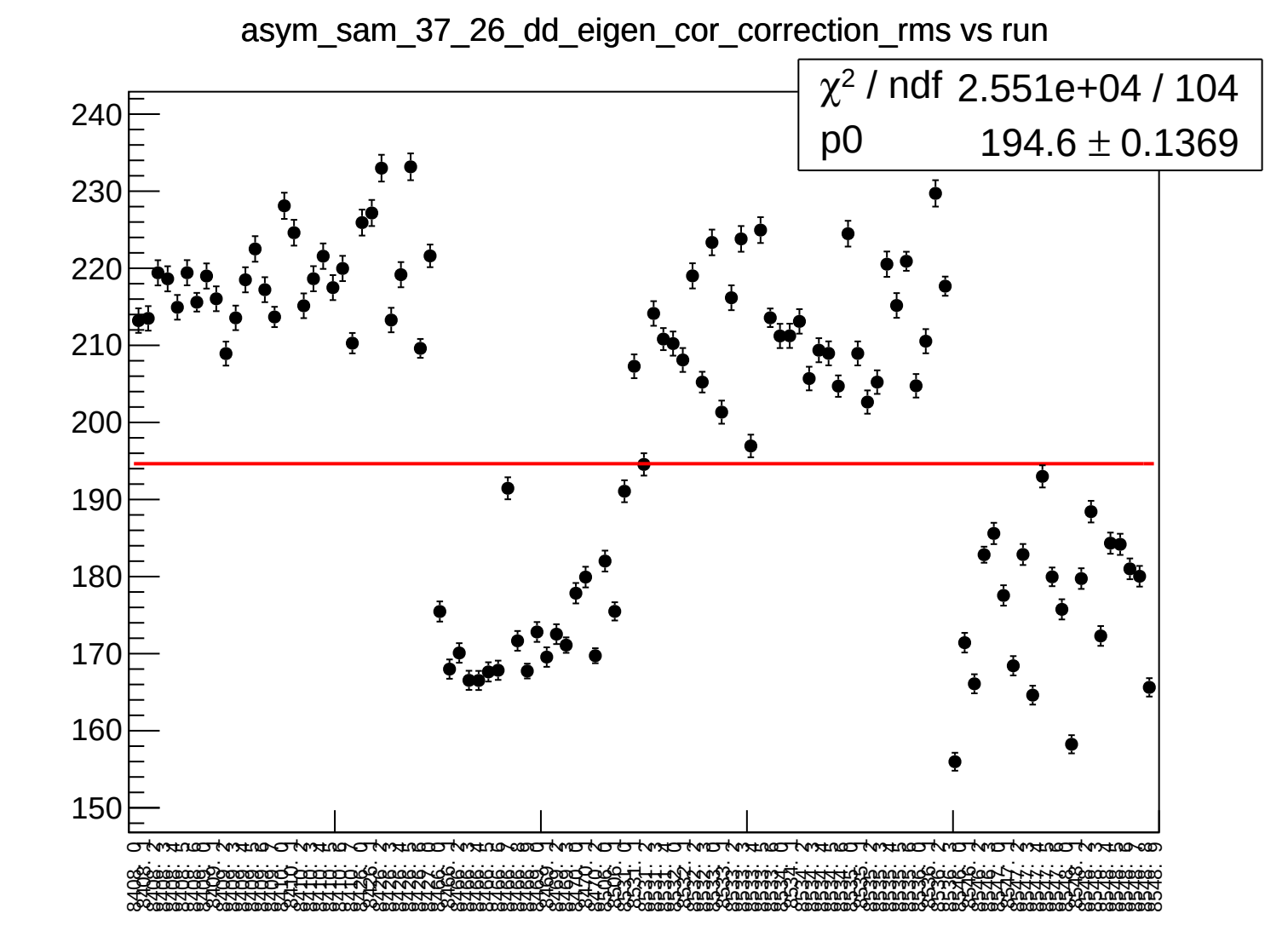

asym_sam_37_26_dd_cor_correction_rms vs run
χ² / ndf 2.551e+04 / 104
p0 194.6 ± 0.1369
240
230
220
210
200
190
180
170
160
150

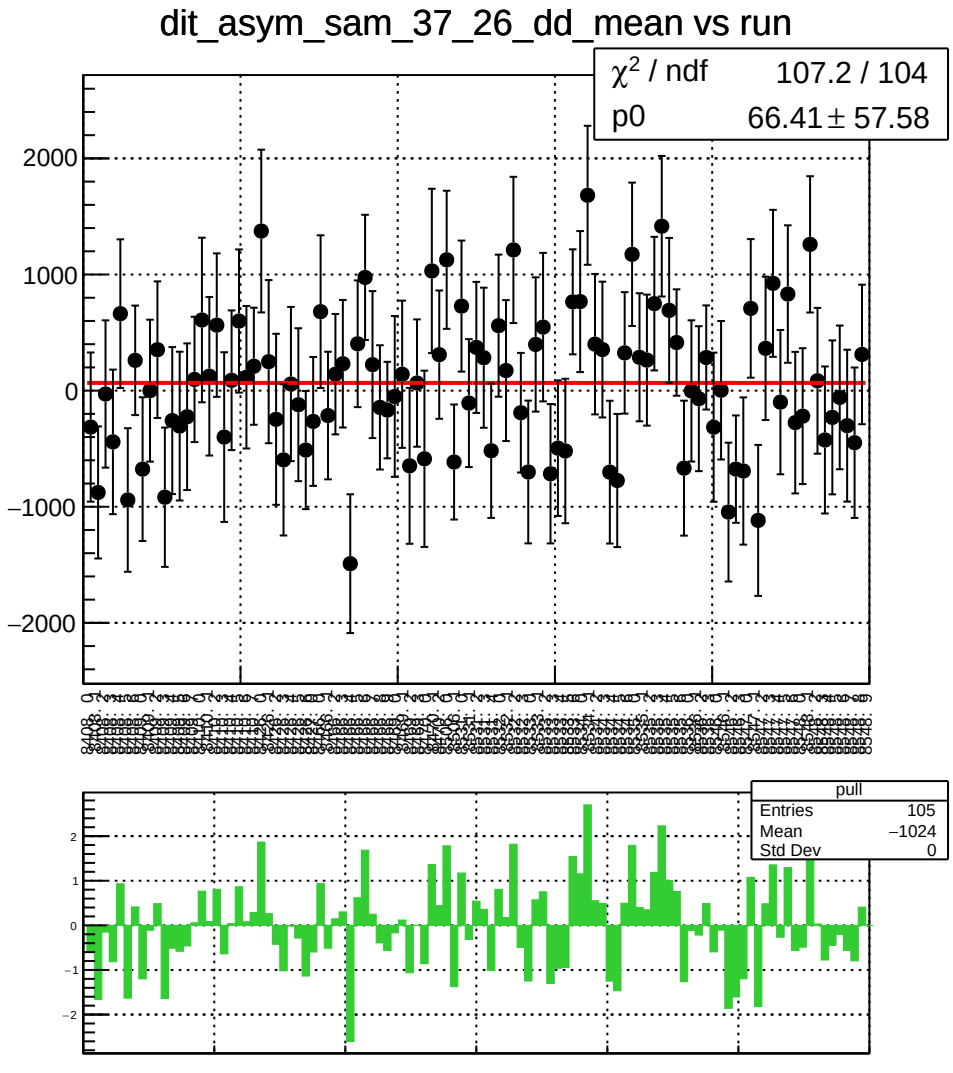

eigen_cor_asym_sam_37_26_dd_mean vs run
χ² / ndf 98.43 / 104
p0 15.98 ± 45.23
1500
1000
500
0
−500
−1000
−1500
pull
Entries 105
Mean −49.31
Std Dev 0
2
1
0
−1
−2

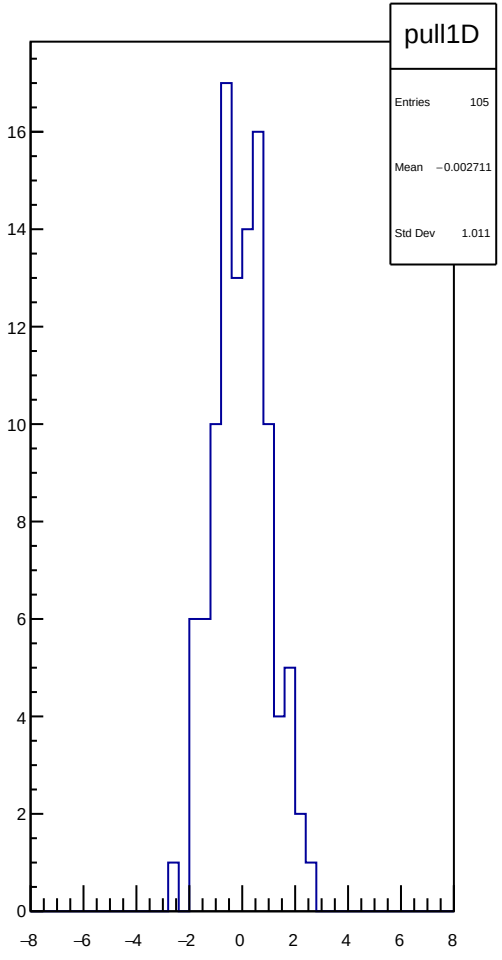

pull1D
Entries 105
Mean −0.0156
Std Dev 0.9681
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

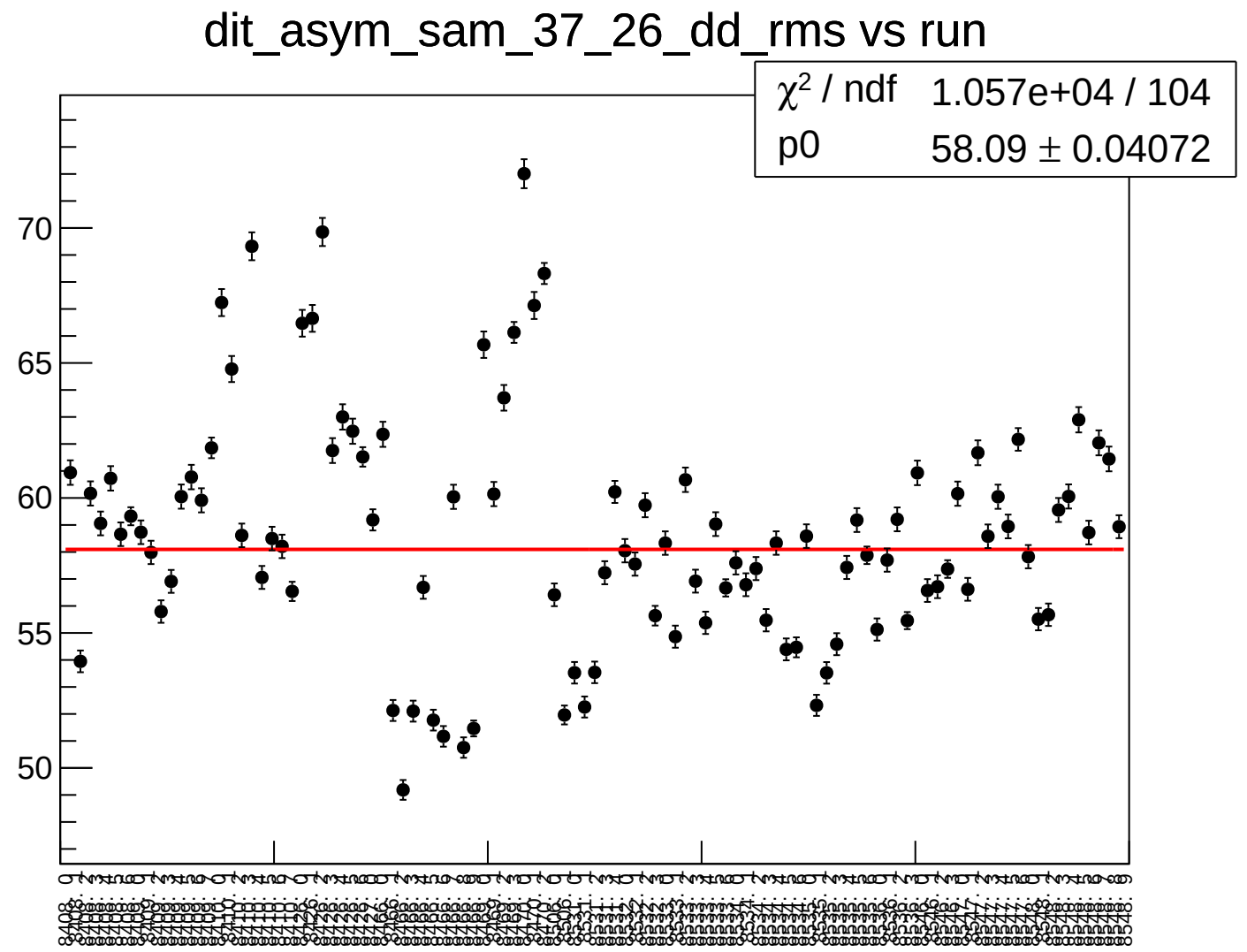

eigen_cor_asym_sam_37_26_dd_rms vs run
χ² / ndf 1.906e+04 / 104
p0 45.54 ± 0.03198
58
56
54
52
50
48
46
44
42
40
38

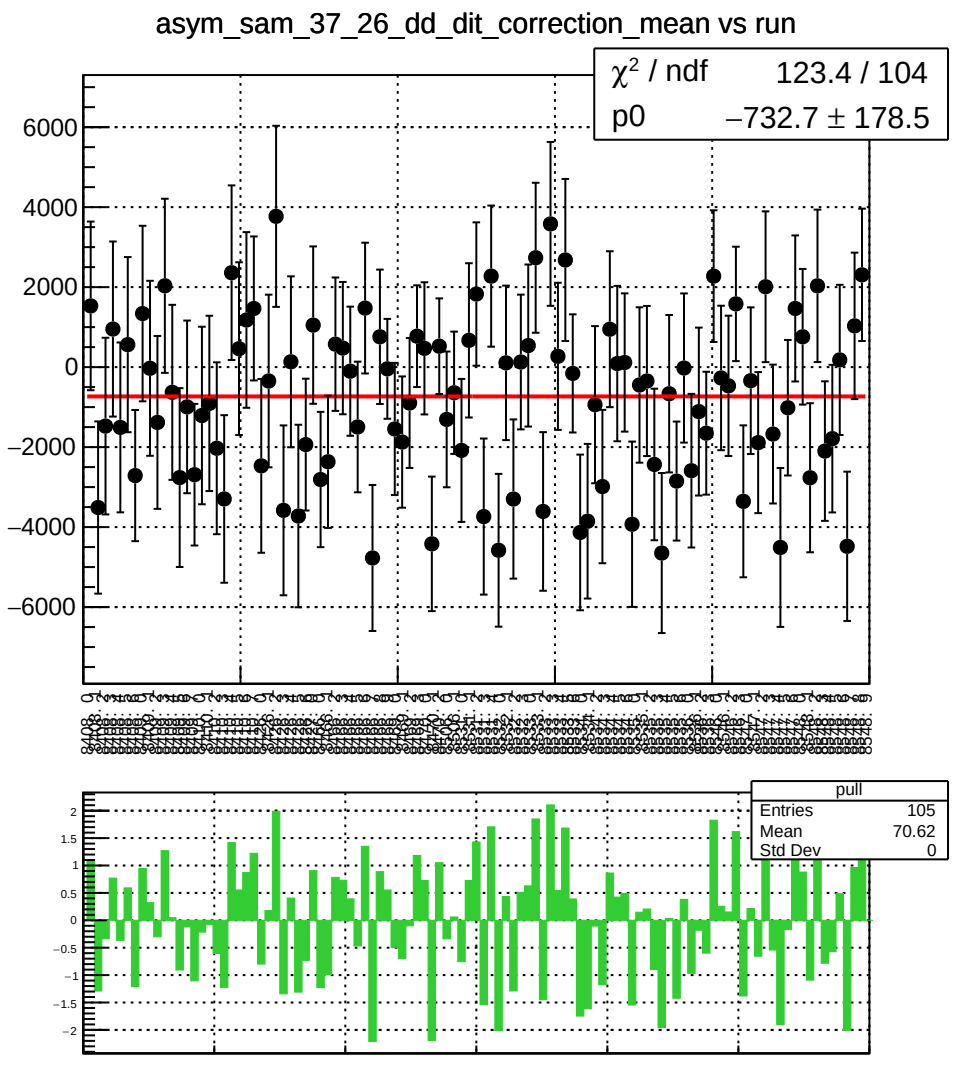

asym_sam_37_26_dd_eigen_cor_correction_mean vs run
χ² / ndf 126.2 / 104
p0 −766.1± 193.6
pull
Entries 105
Mean 78.65
Std Dev 0
pull1D
Entries 105
Mean −0.02337
Std Dev 1.096

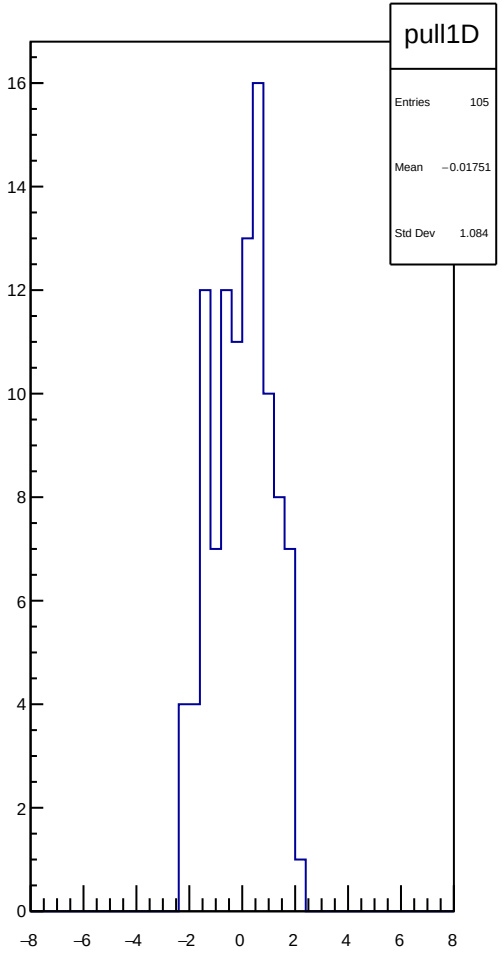

asym_sam_37_26_dd_eigen_cor_correction_rms vs run
χ² / ndf 2.551e+04 / 104
p0 194.6 ± 0.1369
240
230
220
210
200
190
180
170
160
150

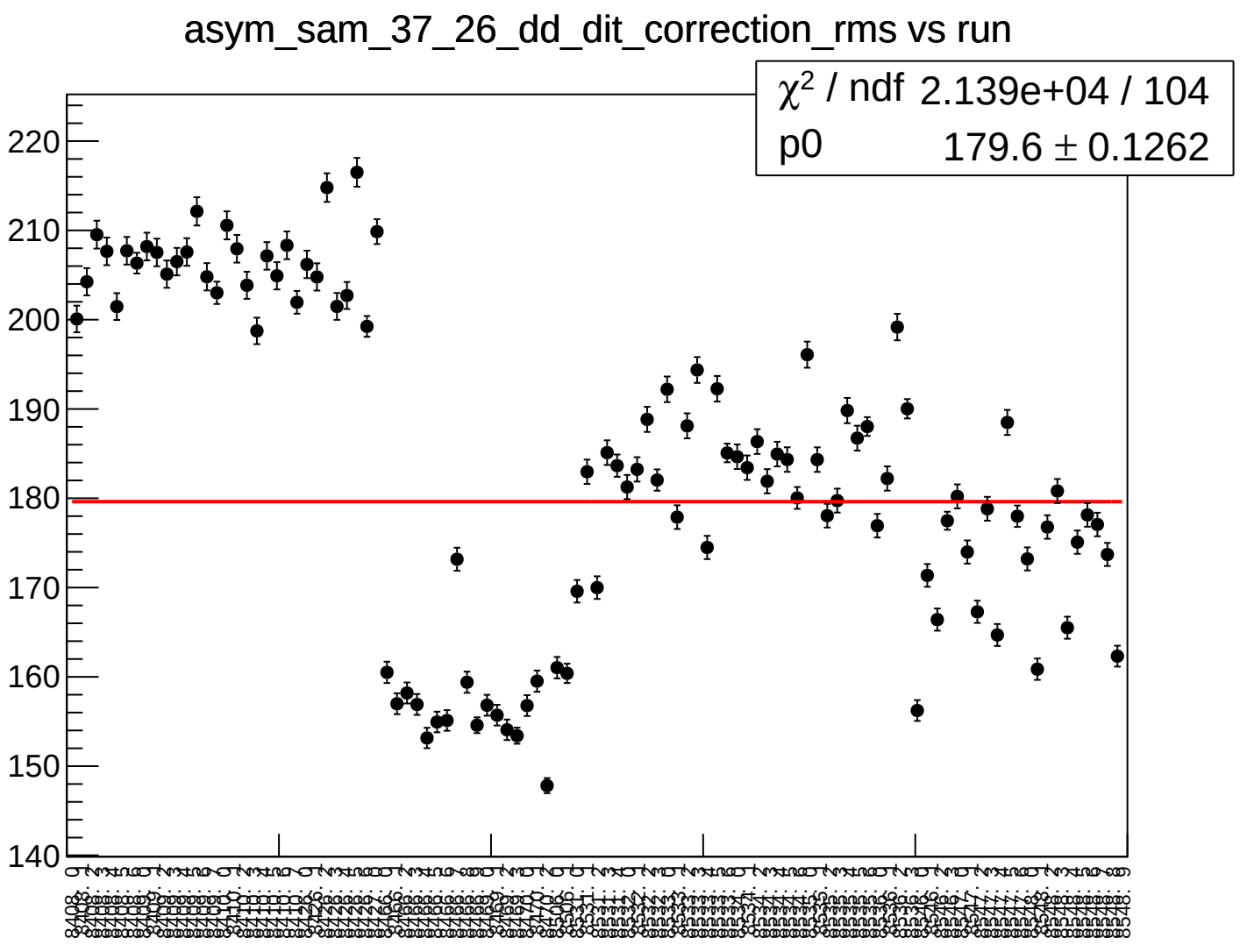

dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 107.2 / 104
p0 66.41 ± 57.58
2000
1000
0
−1000
−2000
pull
Entries 105
Mean −1024
Std Dev 0
2
1
0
−1
−2

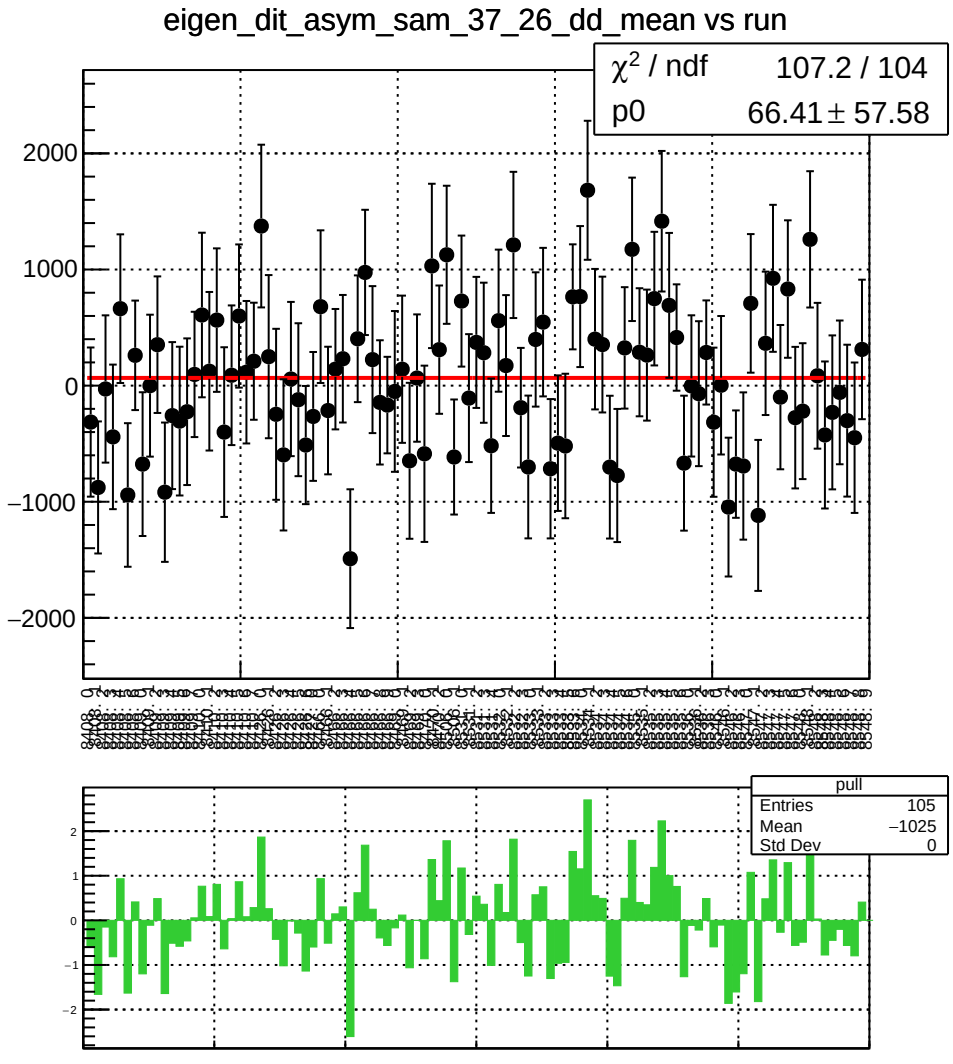

pull1D
Entries 105
Mean −0.002711
Std Dev 1.011
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

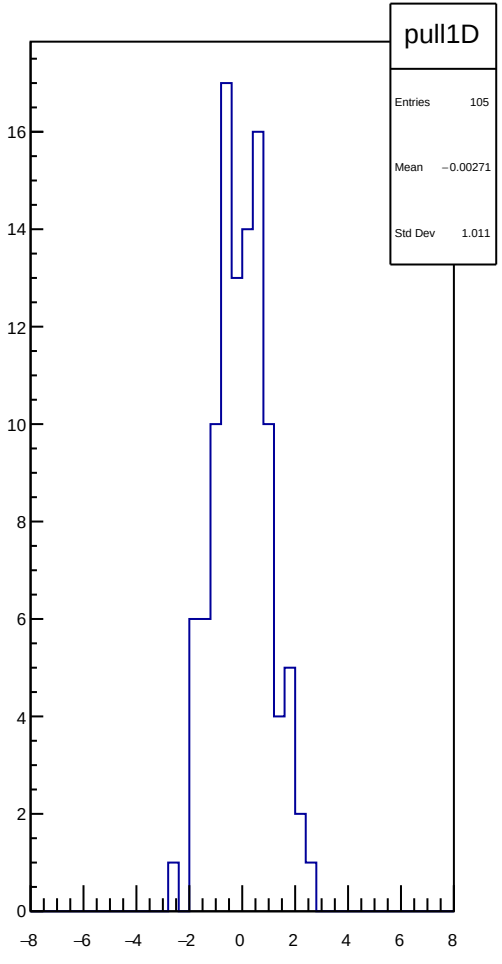

dit_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 1.057e+04 / 104
p0 58.09 ± 0.04072
70
65
60
55
50

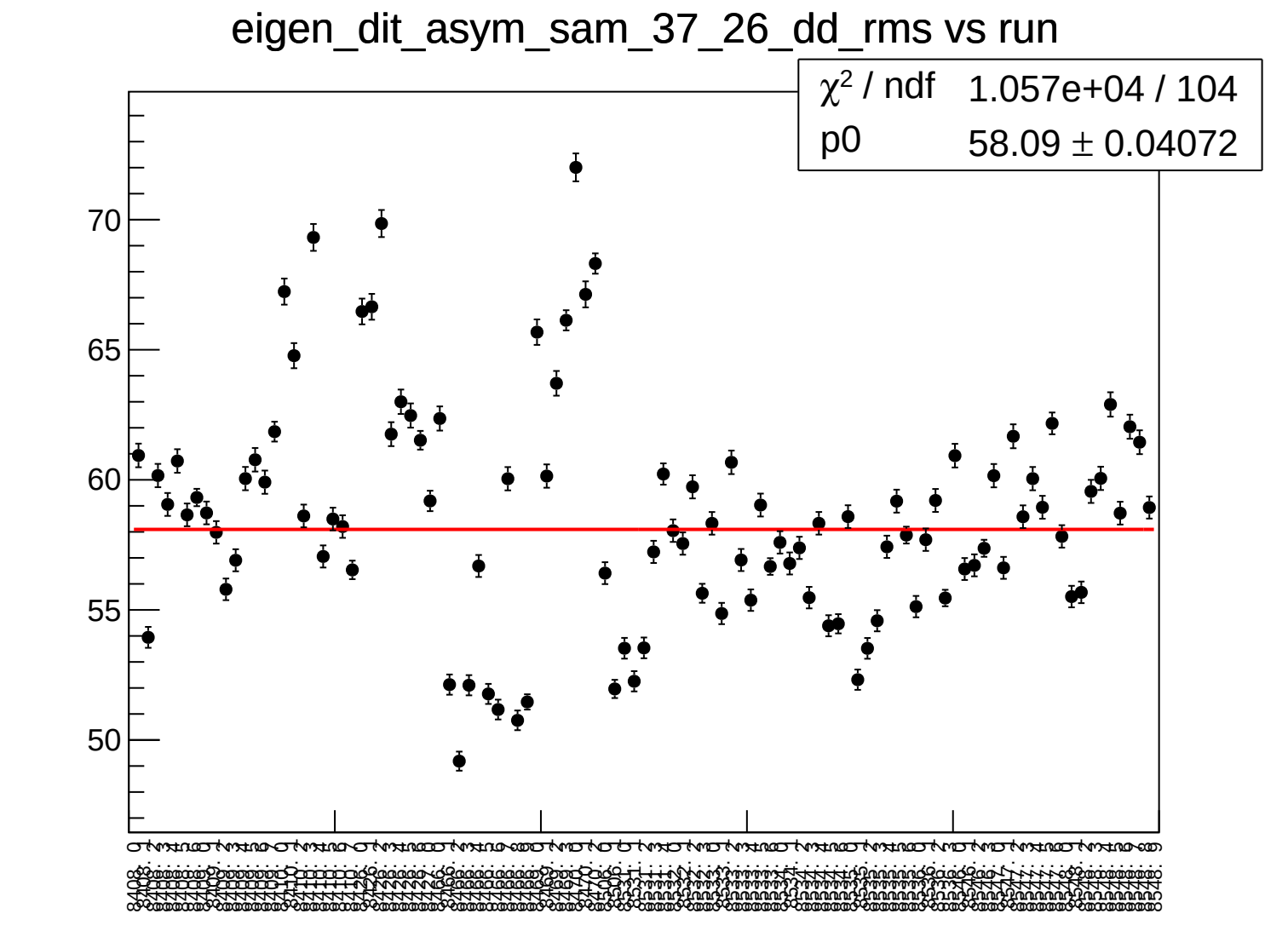

asym_sam_37_26_dd_dit_correction_mean vs run
χ² / ndf 123.4 / 104
p0 −732.7 ± 178.5
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 105
Mean 70.62
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

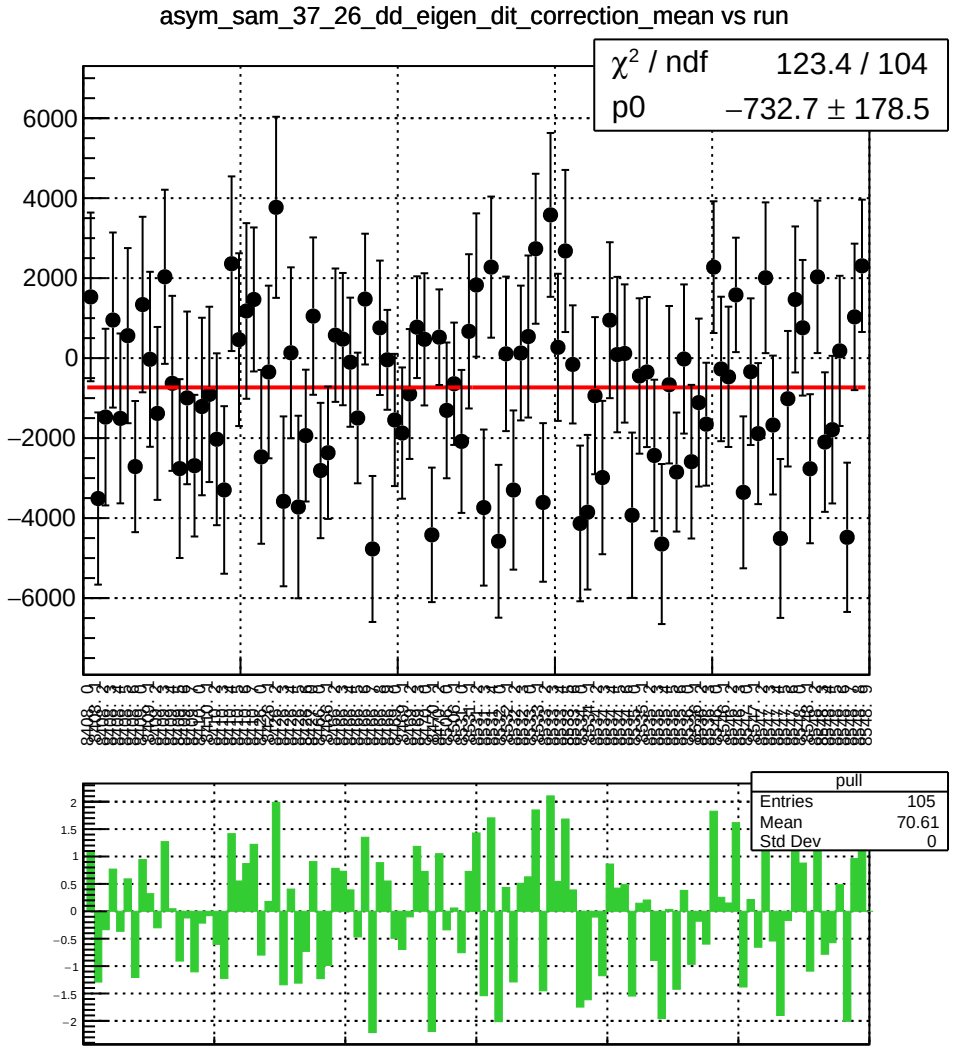

pull1D
Entries 105
Mean −0.01751
Std Dev 1.084
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

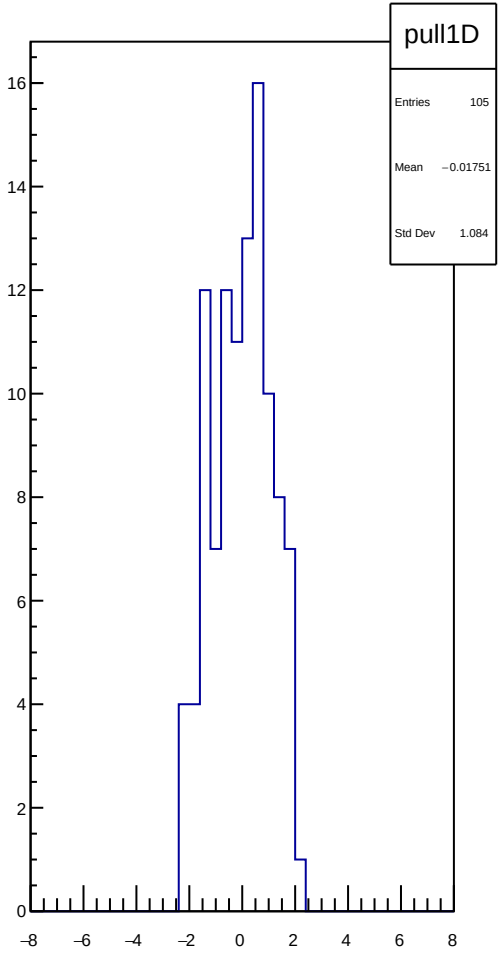

asym_sam_37_26_dd_dit_correction_rms vs run
χ² / ndf 2.139e+04 / 104
p0 179.6 ± 0.1262
220
210
200
190
180
170
160
150
140

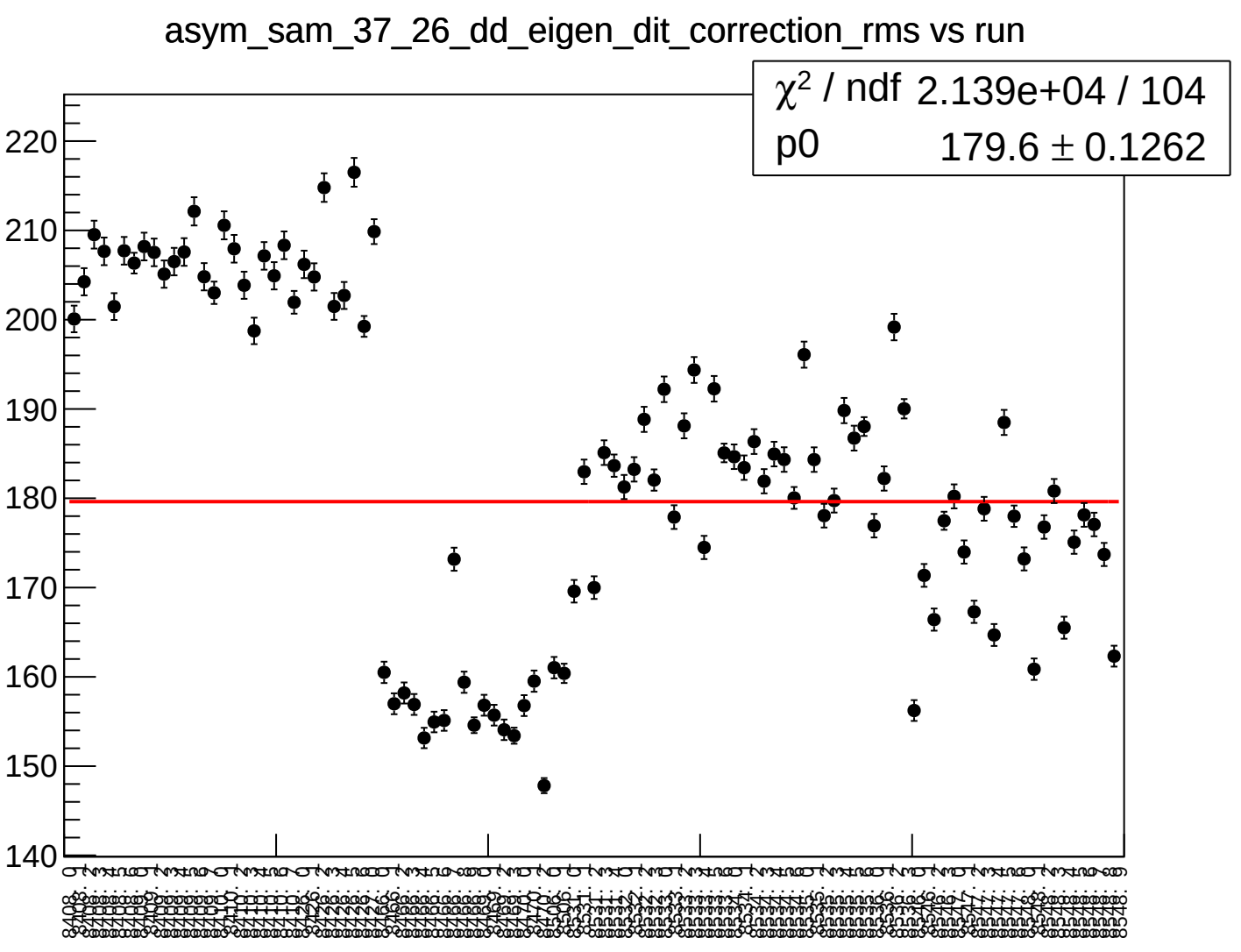

eigen_dit_asym_sam_37_26_dd_mean vs run
χ² / ndf 107.2 / 104
p0 66.41 ± 57.58
2000
1000
0
−1000
−2000
pull
Entries 105
Mean −1025
Std Dev 0
2
1
0
−1
−2

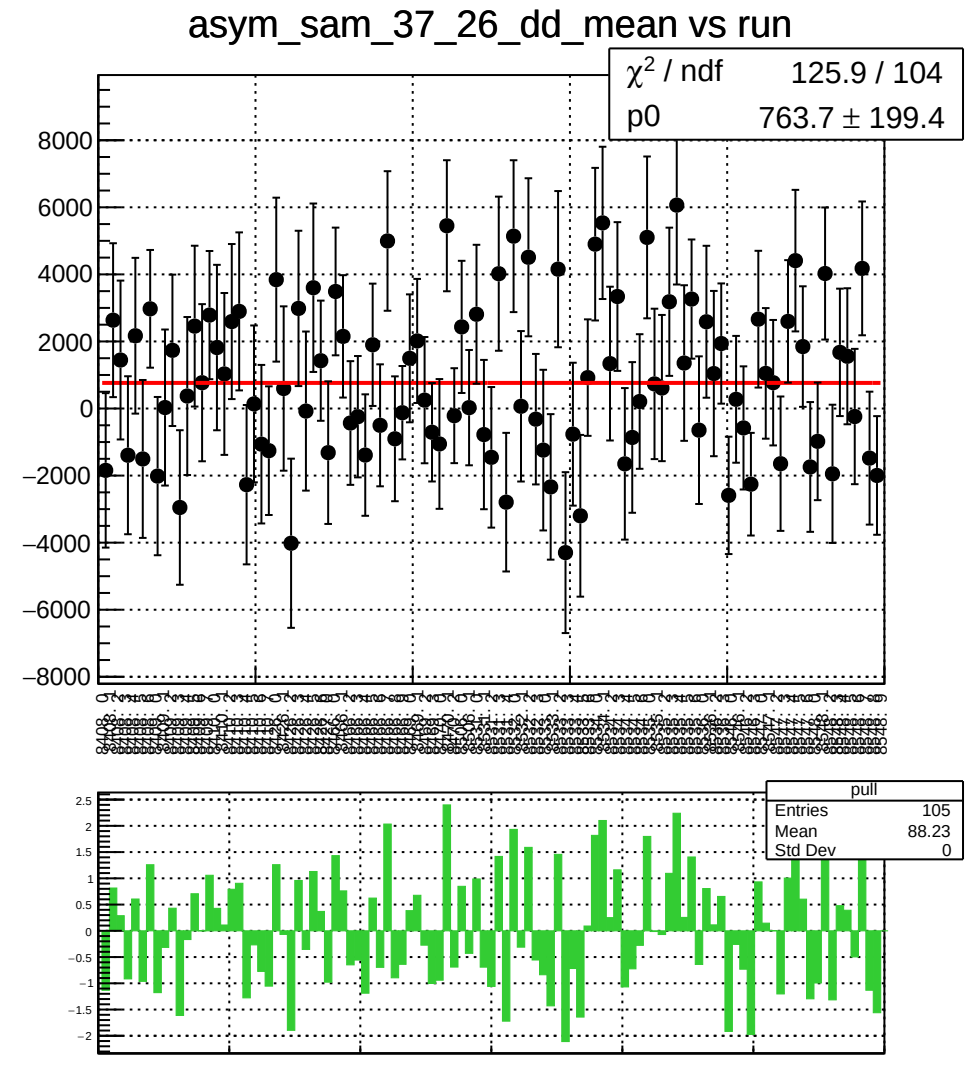

pull1D
Entries 105
Mean −0.00271
Std Dev 1.011
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

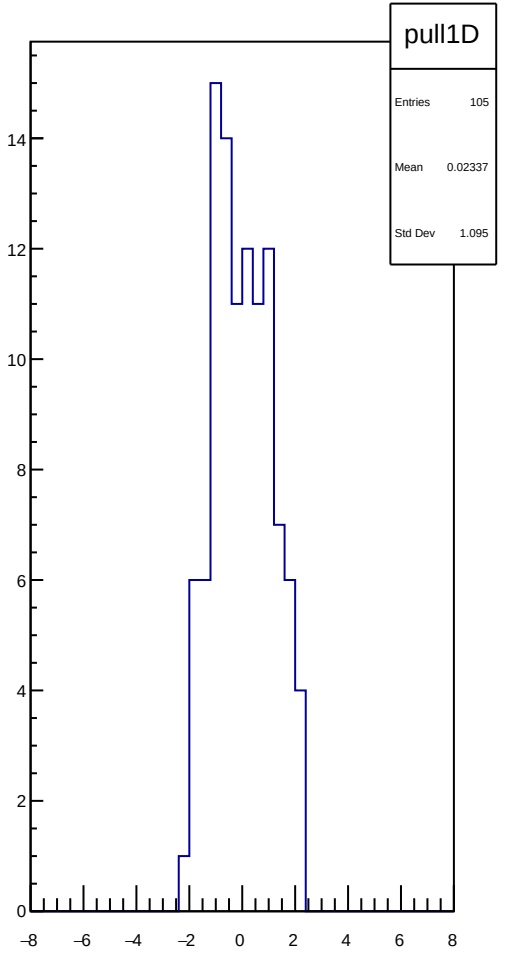

eigen_dit_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 1.057e+04 / 104
p0 58.09 ± 0.04072
70
65
60
55
50

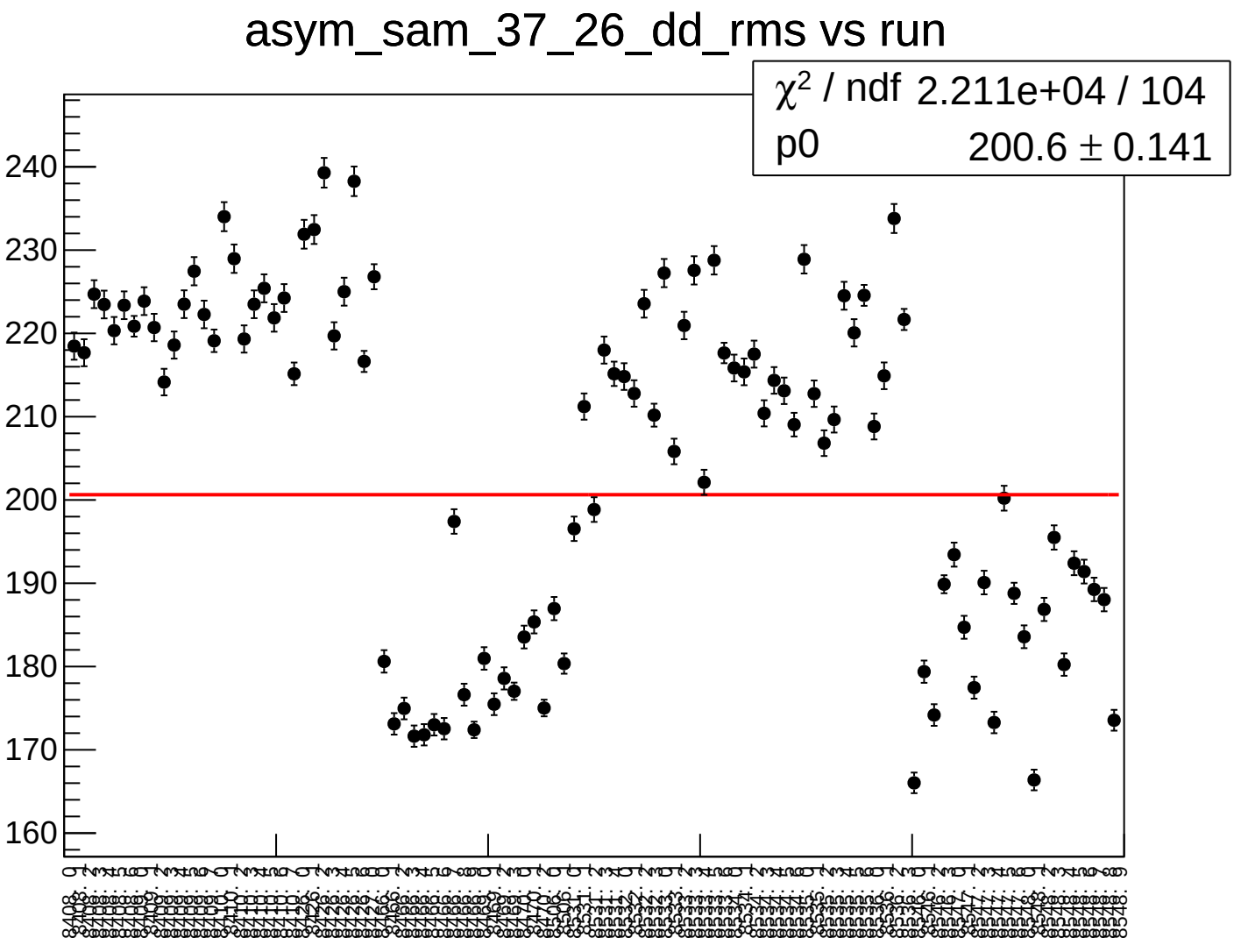

asym_sam_37_26_dd_eigen_dit_correction_mean vs run
χ² / ndf 123.4 / 104
p0 −732.7 ± 178.5
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 105
Mean 70.61
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

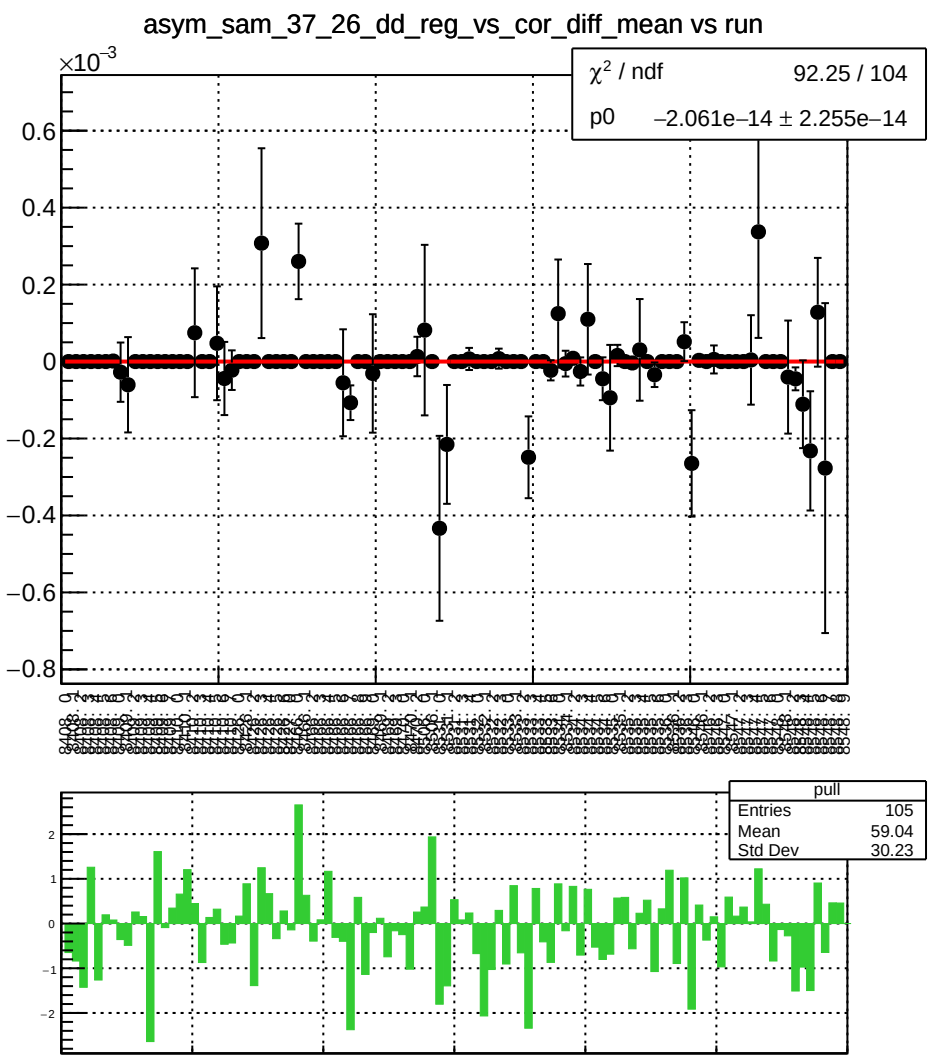

pull1D
Entries 105
Mean −0.01751
Std Dev 1.084
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

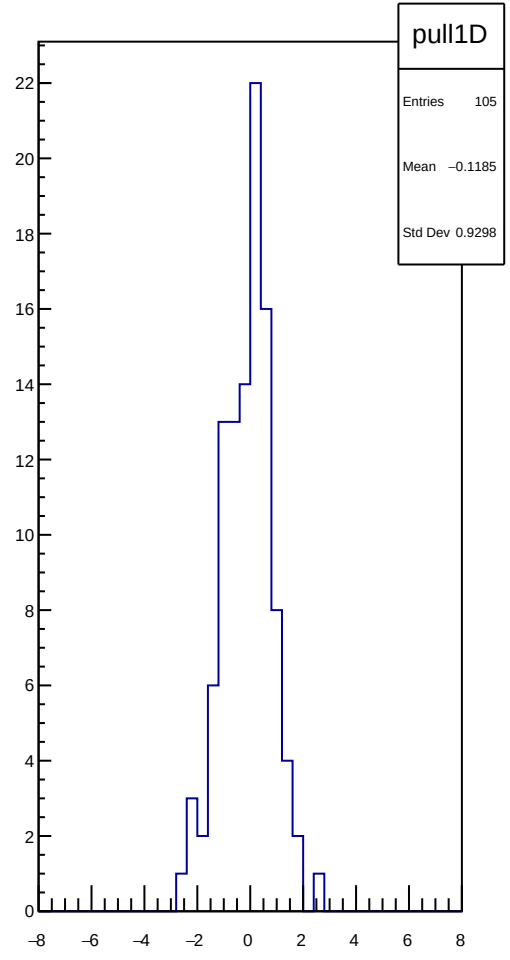

asym_sam_37_26_dd_eigen_dit_correction_rms vs run
χ² / ndf 2.139e+04 / 104
p0 179.6 ± 0.1262
220
210
200
190
180
170
160
150
140

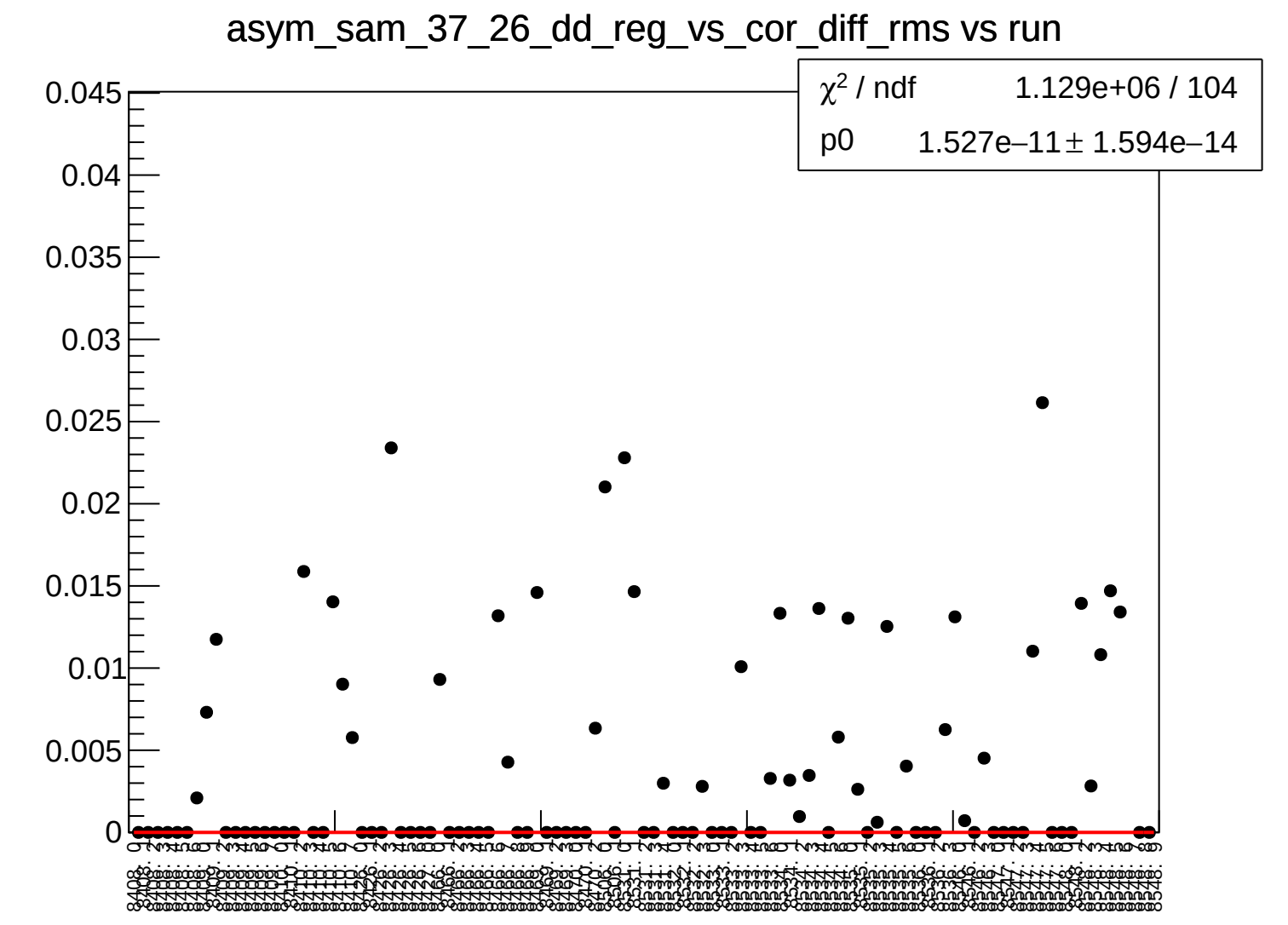

asym_sam_37_26_dd_mean vs run
χ² / ndf 125.9 / 104
p0 763.7 ± 199.4
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 105
Mean 88.23
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

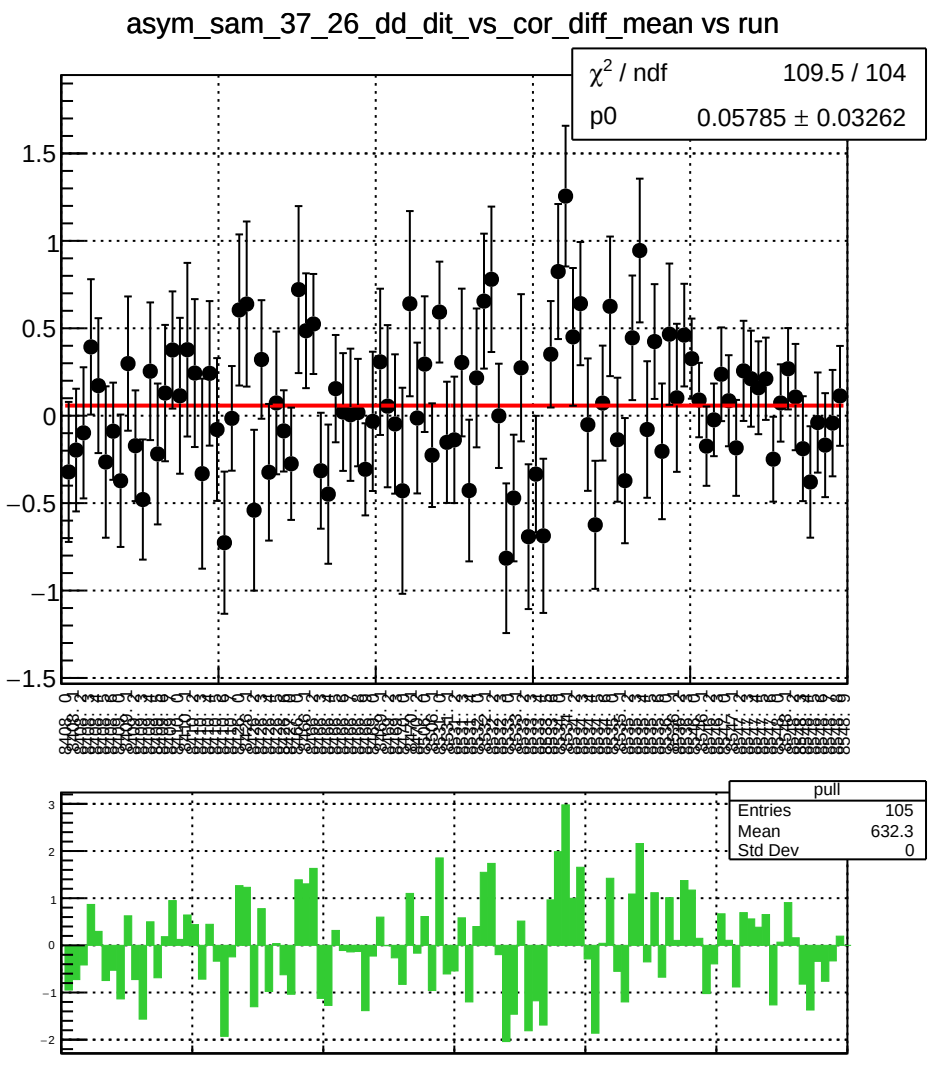

pull1D
Entries 105
Mean 0.02337
Std Dev 1.095
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

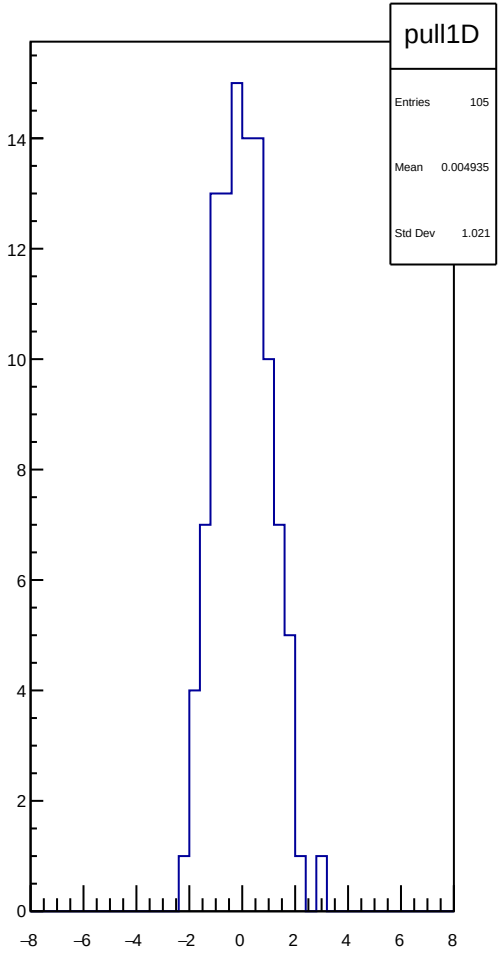

asym_sam_37_26_dd_rms vs run
χ^2 / ndf 2.211e+04 / 104
p0 200.6 ± 0.141
240
230
220
210
200
190
180
170
160

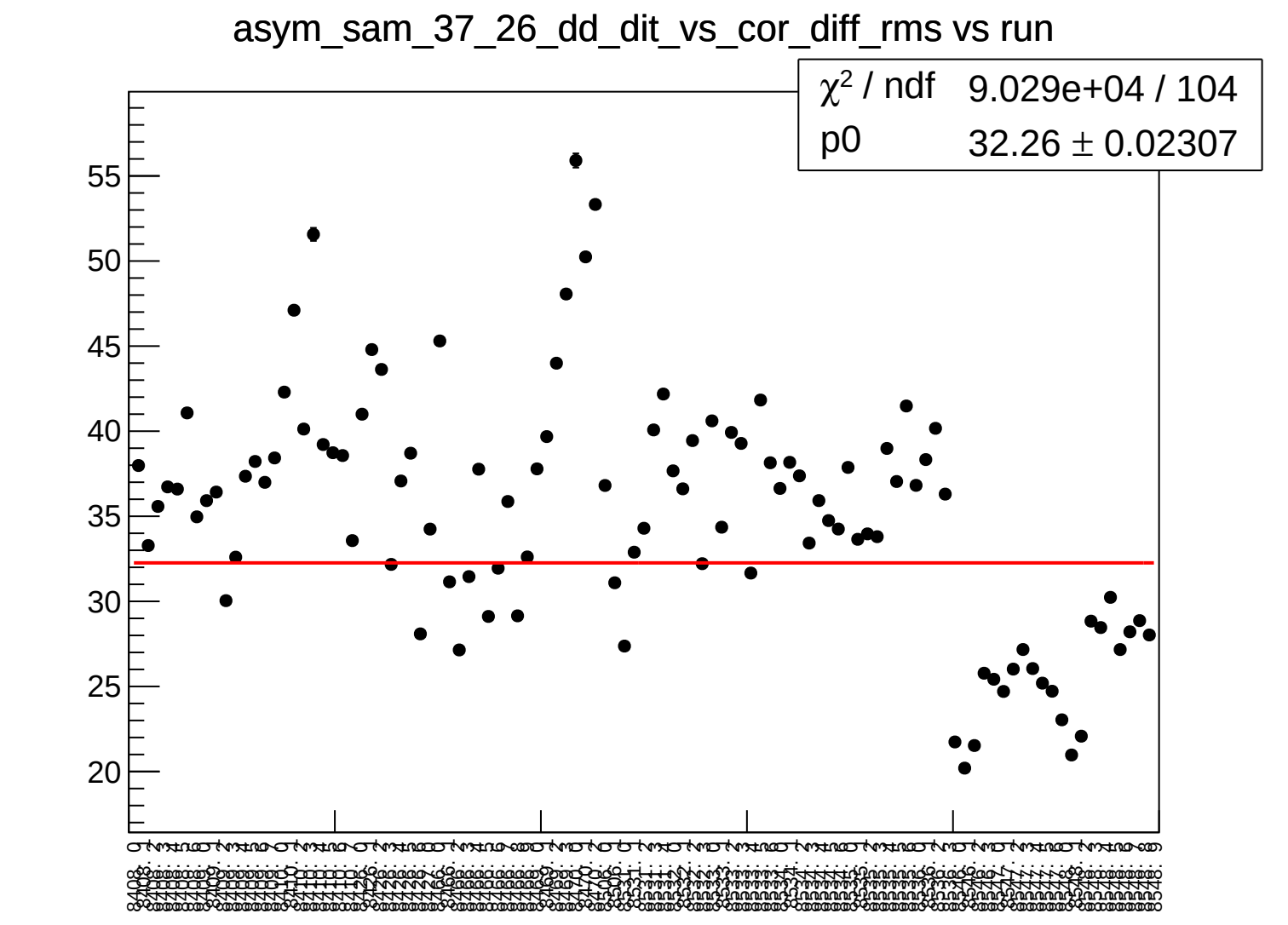

asym_sam_37_26_dd_reg_vs_cor_diff_mean vs run
×10⁻³
χ² / ndf 92.25 / 104
p0 −2.061e−14 ± 2.255e−14
pull
Entries 105
Mean 59.04
Std Dev 30.23

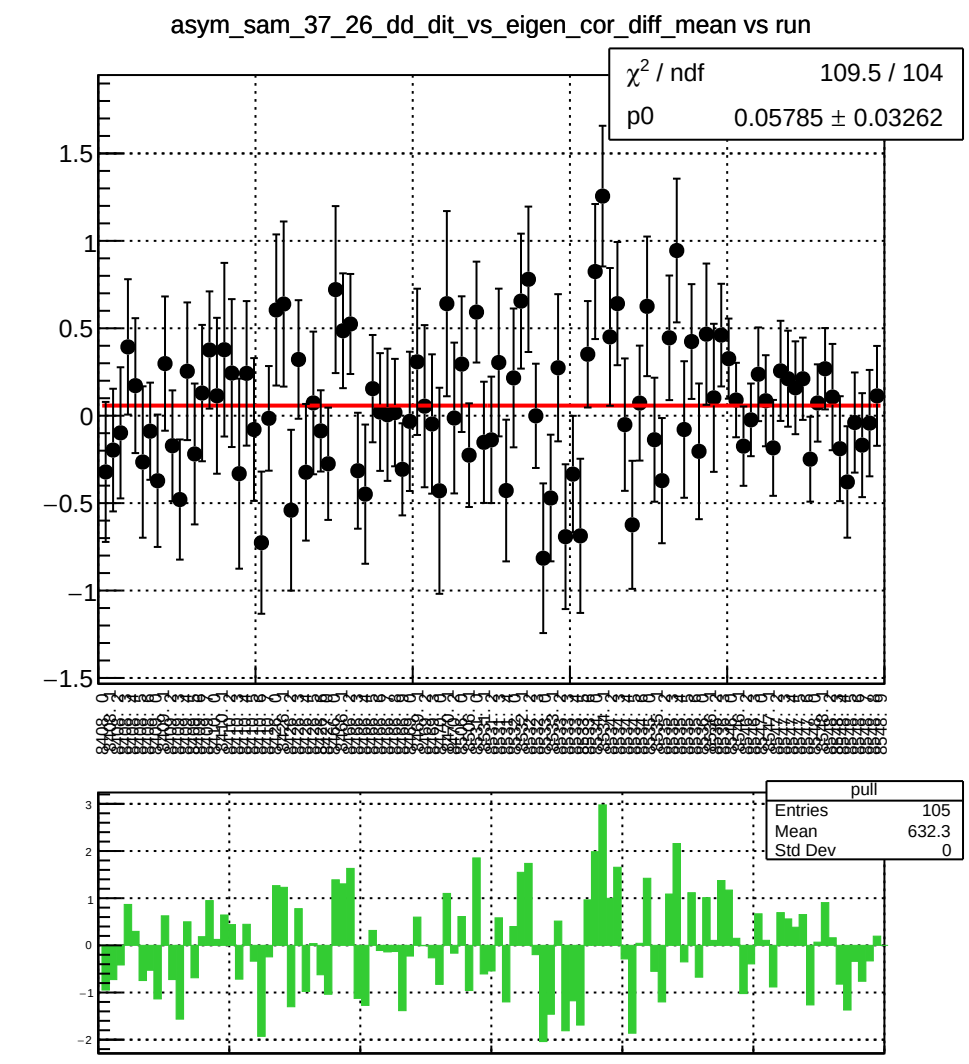

pull1D
Entries 105
Mean −0.1185
Std Dev 0.9298

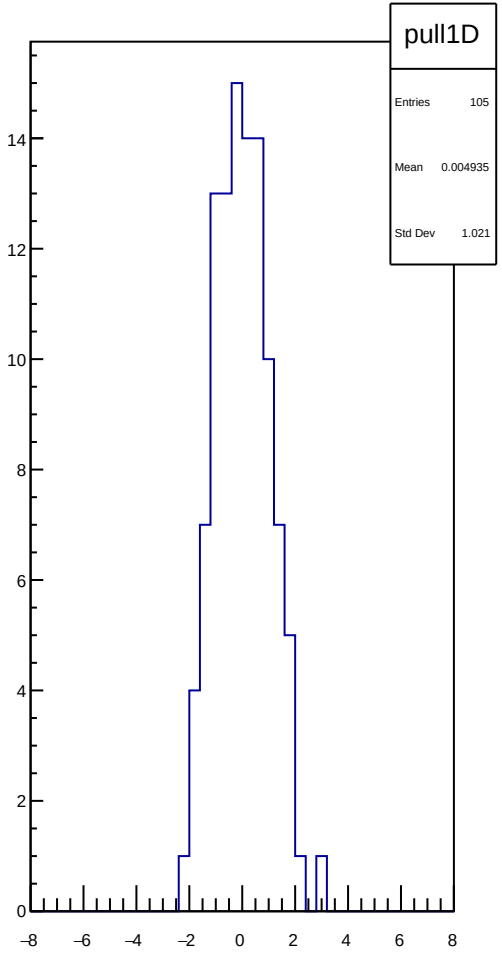

asym_sam_37_26_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.129e+06 / 104
p0 1.527e−11 ± 1.594e−14
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0

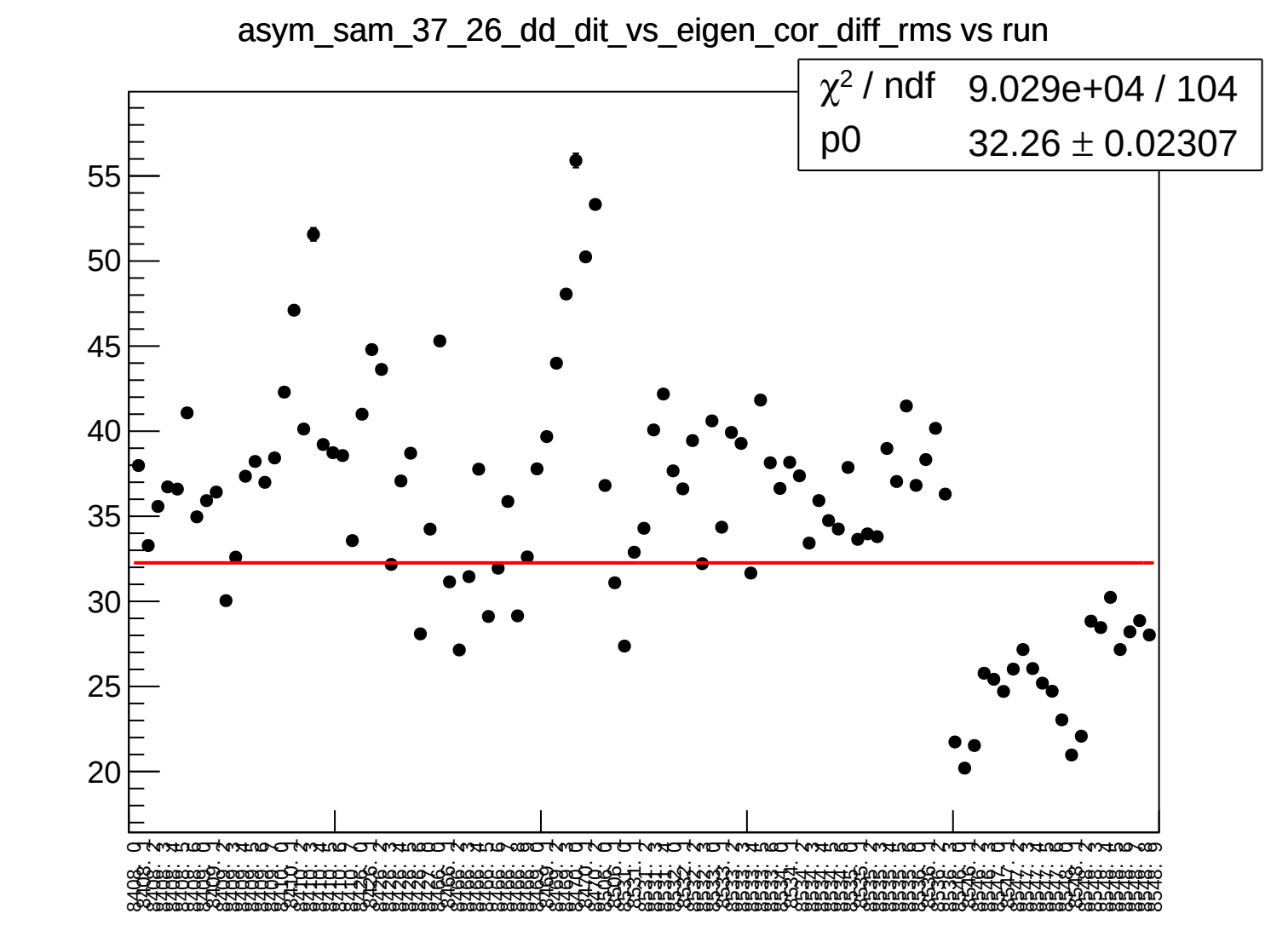

asym_sam_37_26_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 109.5 / 104
p0 0.05785 ± 0.03262
pull
Entries 105
Mean 632.3
Std Dev 0

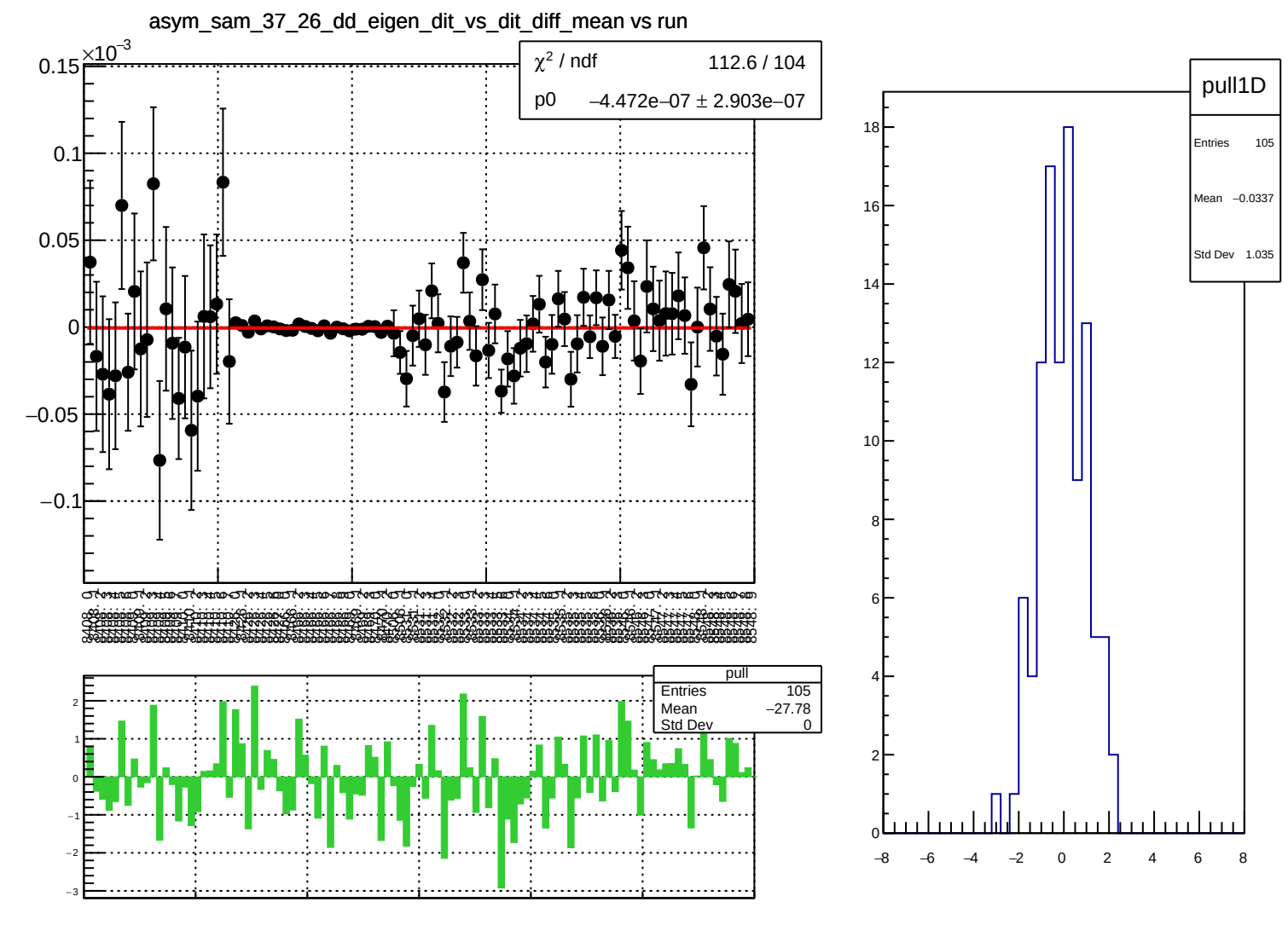

pull1D
Entries 105
Mean 0.004935
Std Dev 1.021

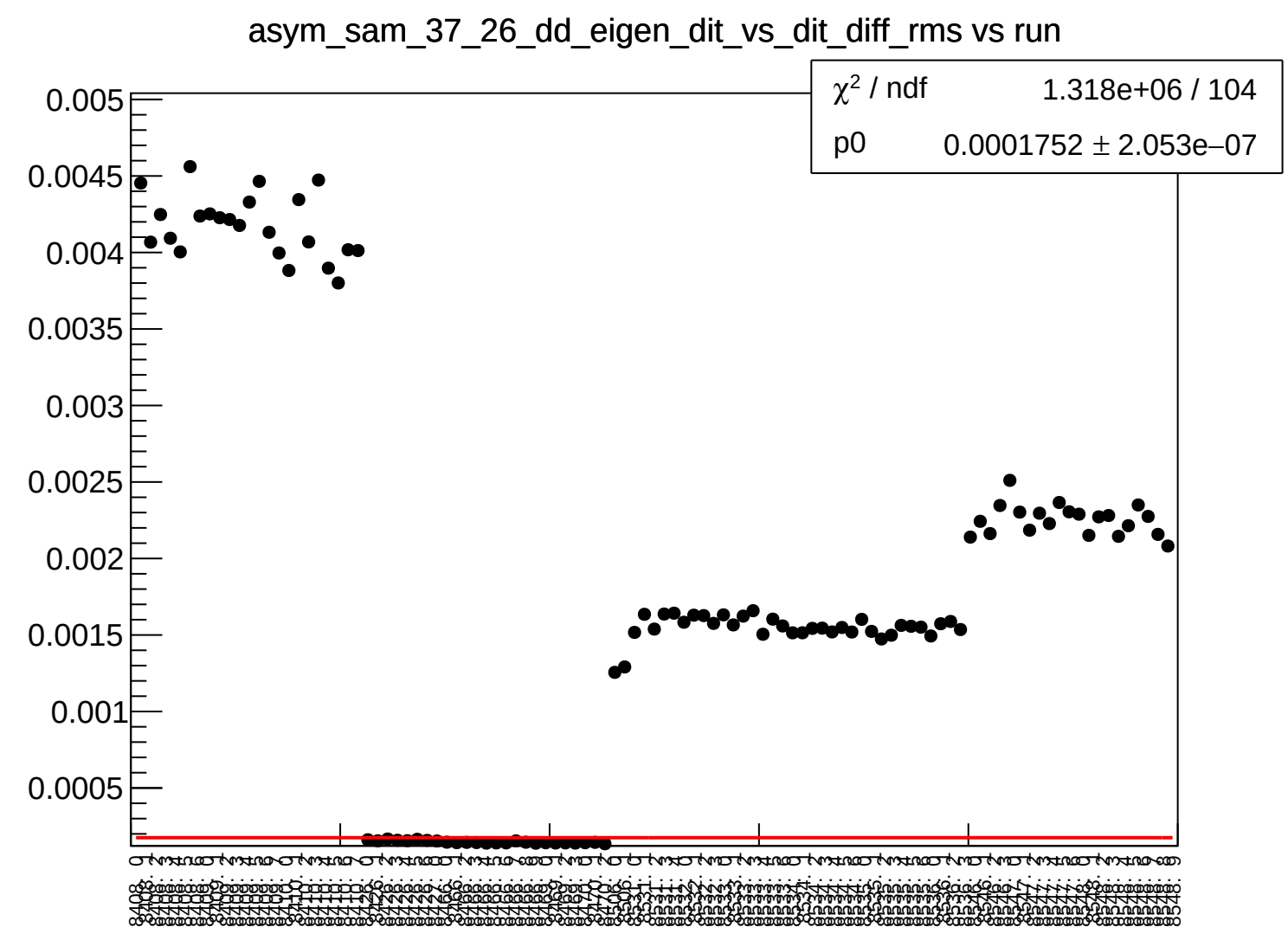

asym_sam_37_26_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 9.029e+04 / 104
p0 32.26 ± 0.02307
55
50
45
40
35
30
25
20

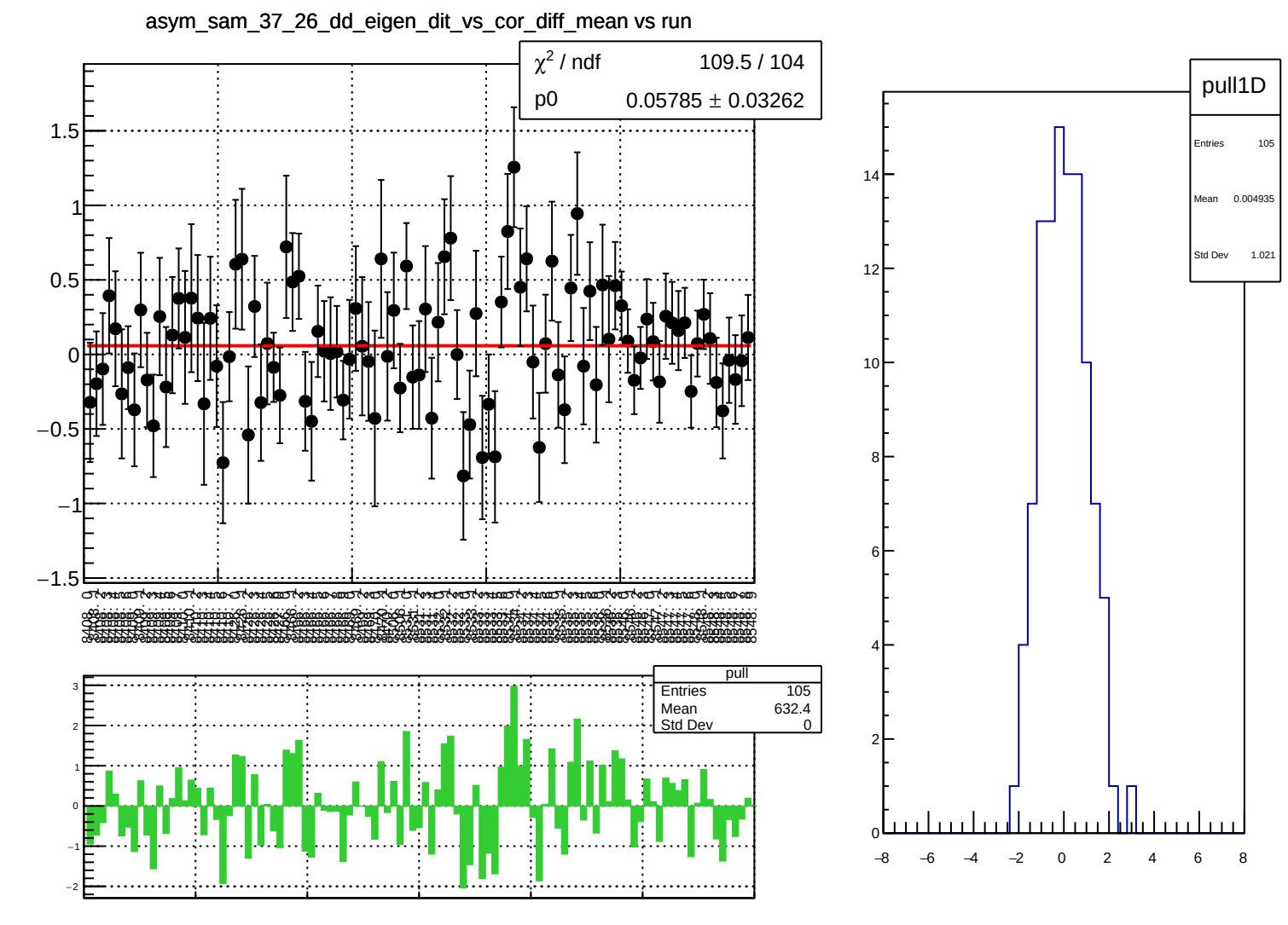

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.5 / 104
p0 0.05785 ± 0.03262
pull
Entries 105
Mean 632.3
Std Dev 0

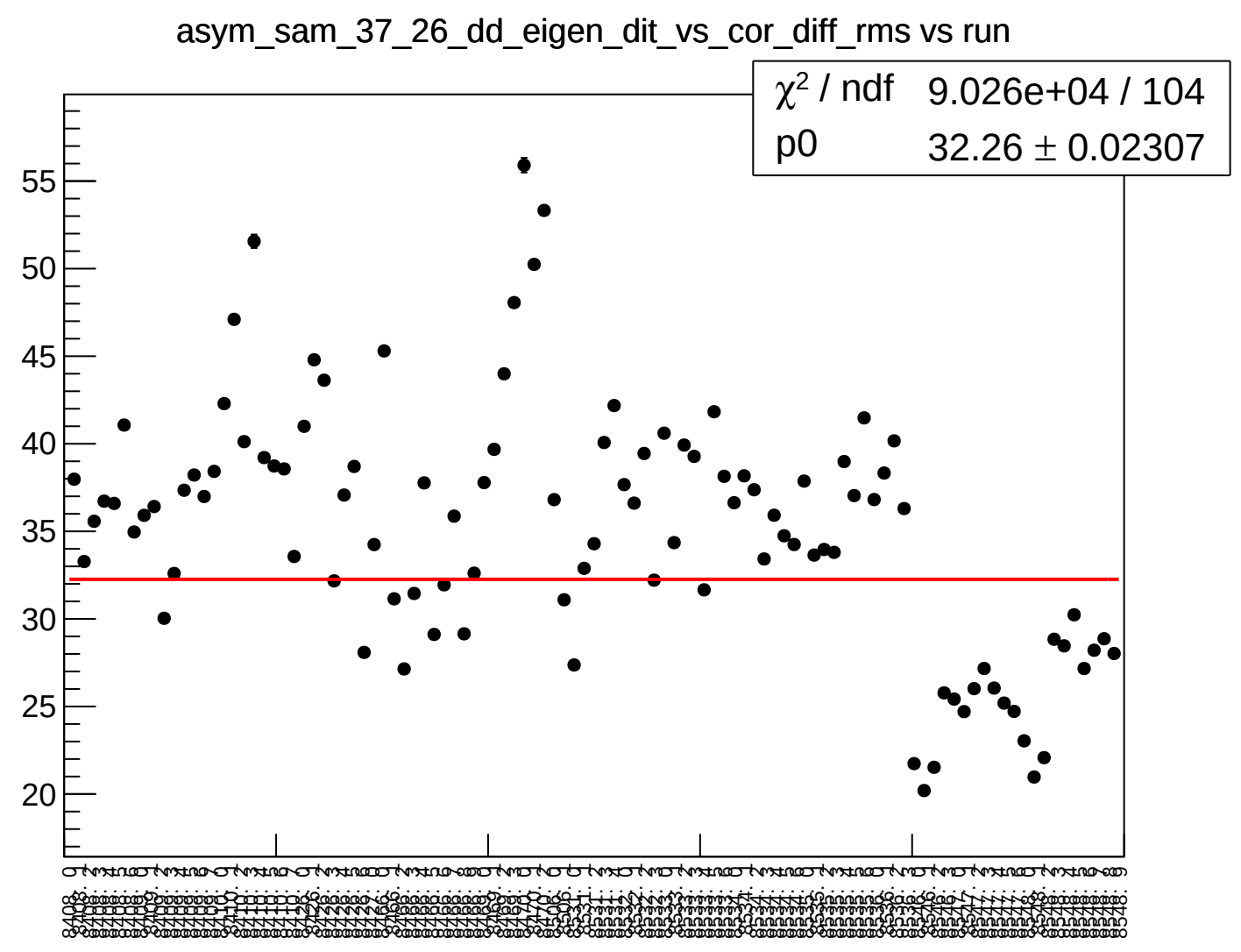

pull1D
Entries 105
Mean 0.004935
Std Dev 1.021

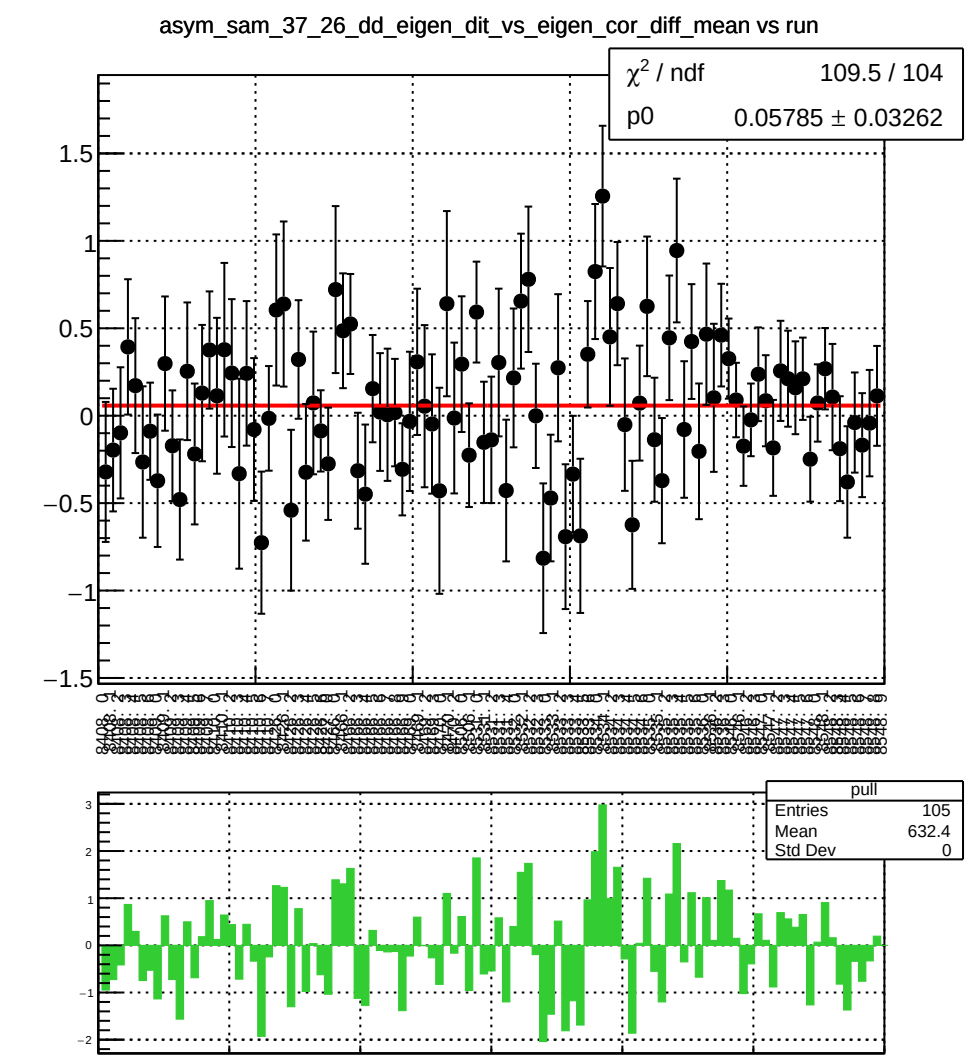

asym_sam_37_26_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.029e+04 / 104
p0 32.26 ± 0.02307
55
50
45
40
35
30
25
20

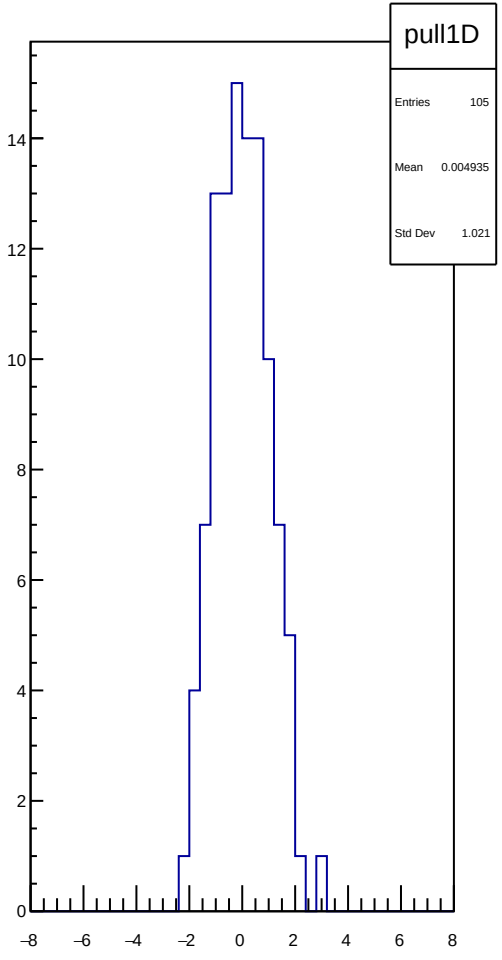

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 112.6 / 104
p0 −4.472e−07 ± 2.903e−07
pull
Entries 105
Mean −27.78
Std Dev 0
pull1D
Entries 105
Mean −0.0337
Std Dev 1.035

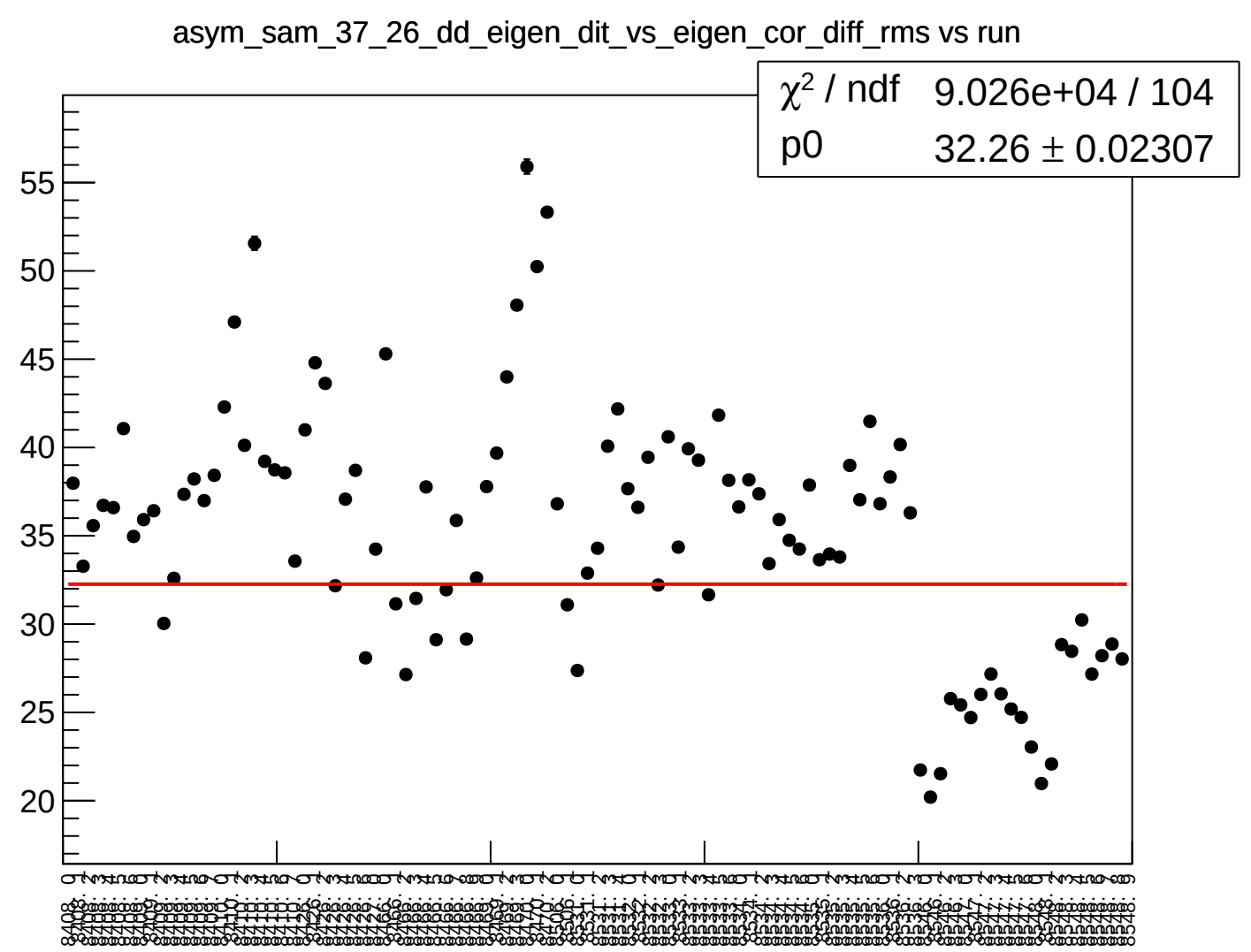

asym_sam_37_26_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 1.318e+06 / 104
p0 0.0001752 ± 2.053e−07
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005

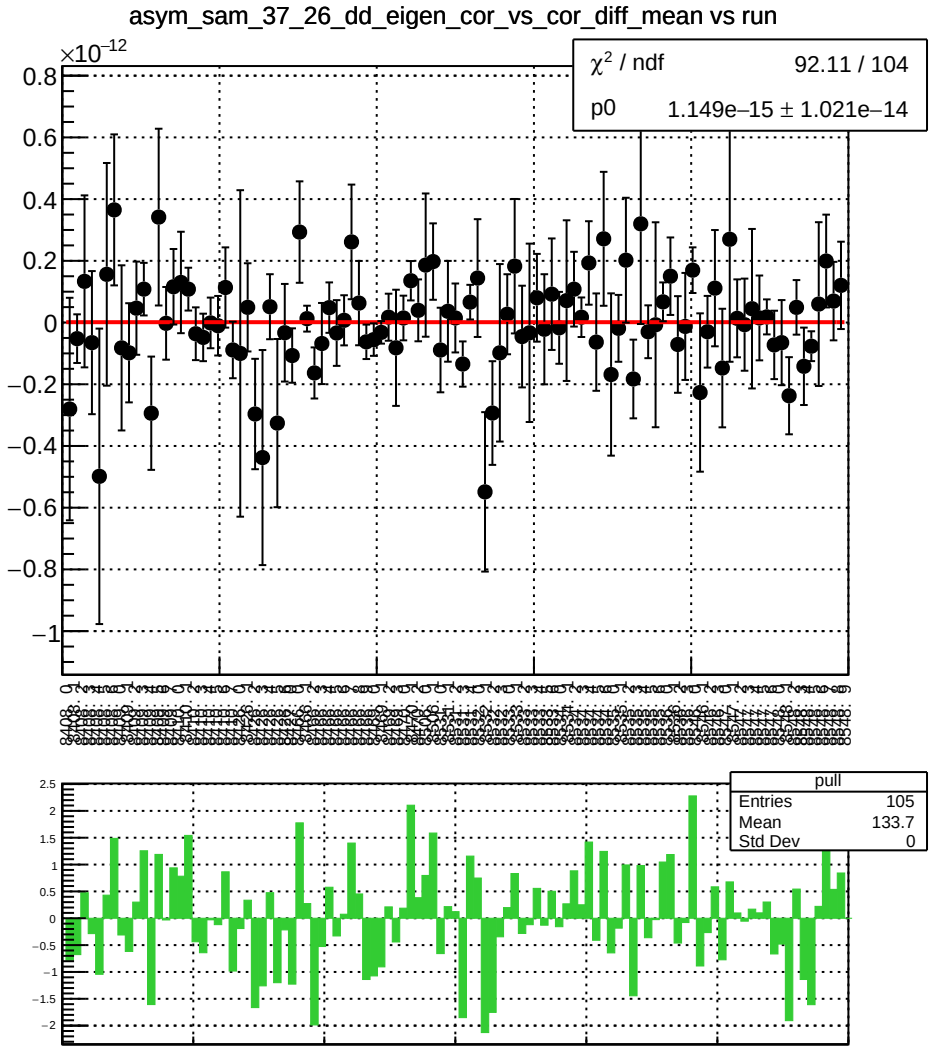

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 109.5 / 104
p0 0.05785 ± 0.03262
pull
Entries 105
Mean 632.4
Std Dev 0
pull1D
Entries 105
Mean 0.004935
Std Dev 1.021

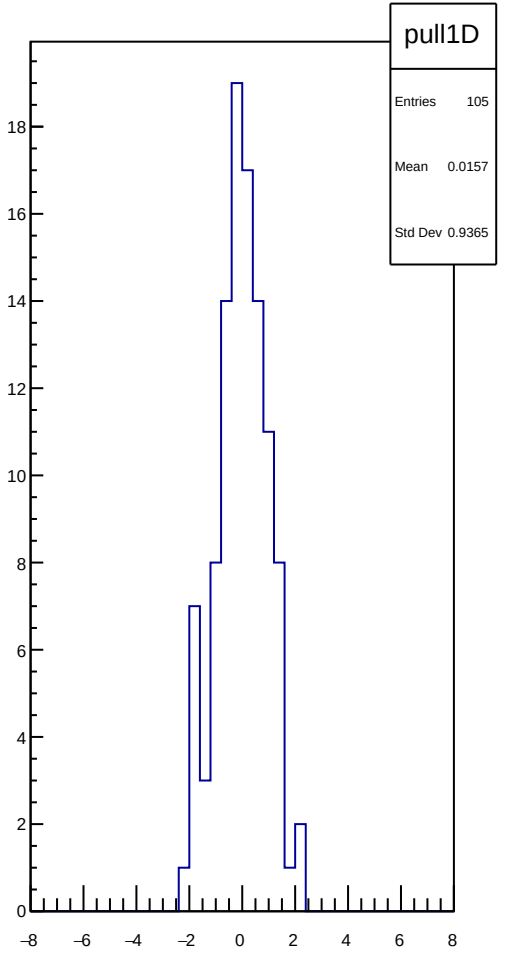

asym_sam_37_26_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.026e+04 / 104
p0 32.26 ± 0.02307
55
50
45
40
35
30
25
20

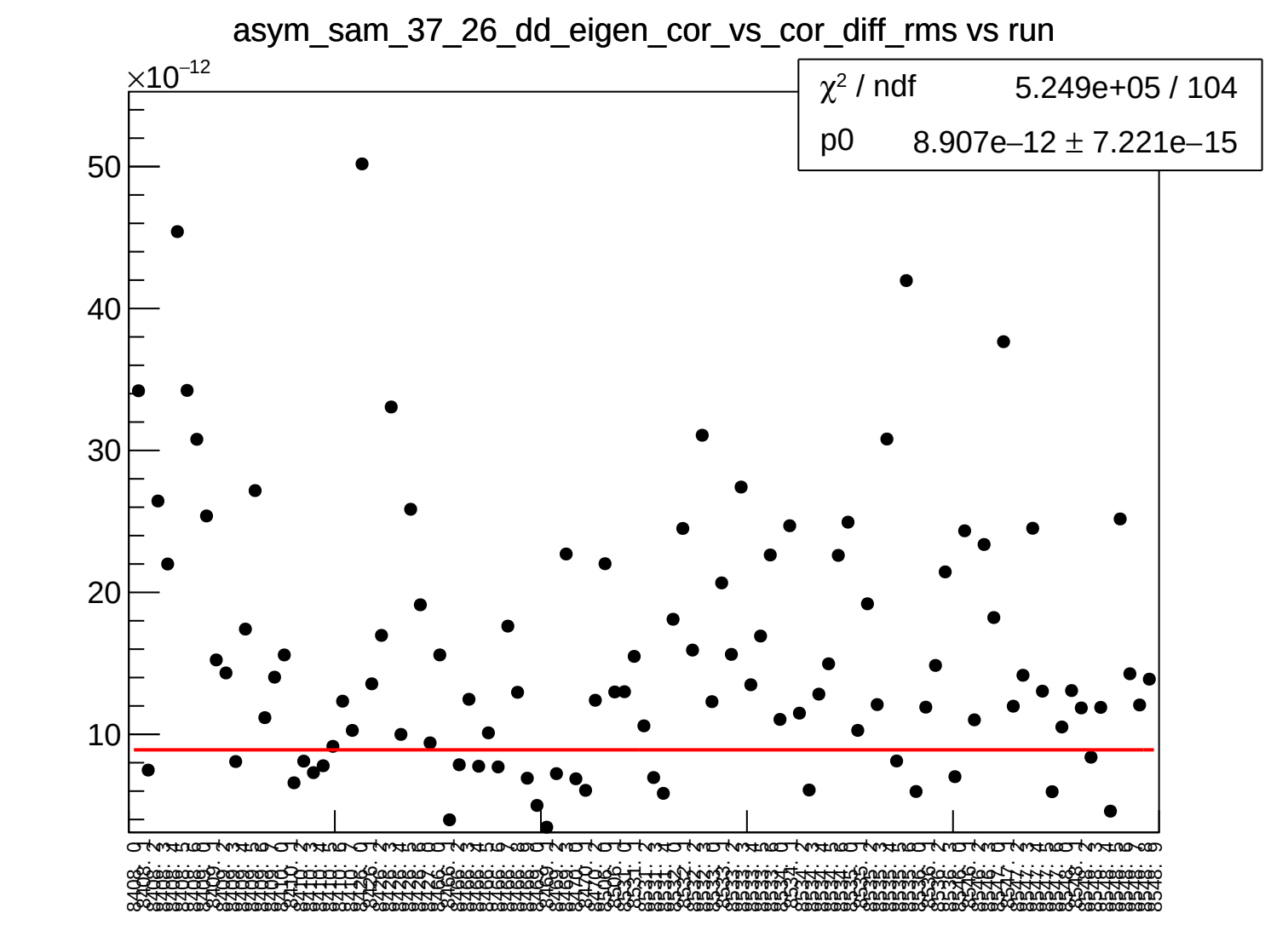

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 109.5 / 104
p0 0.05785 ± 0.03262
pull
Entries 105
Mean 632.4
Std Dev 0

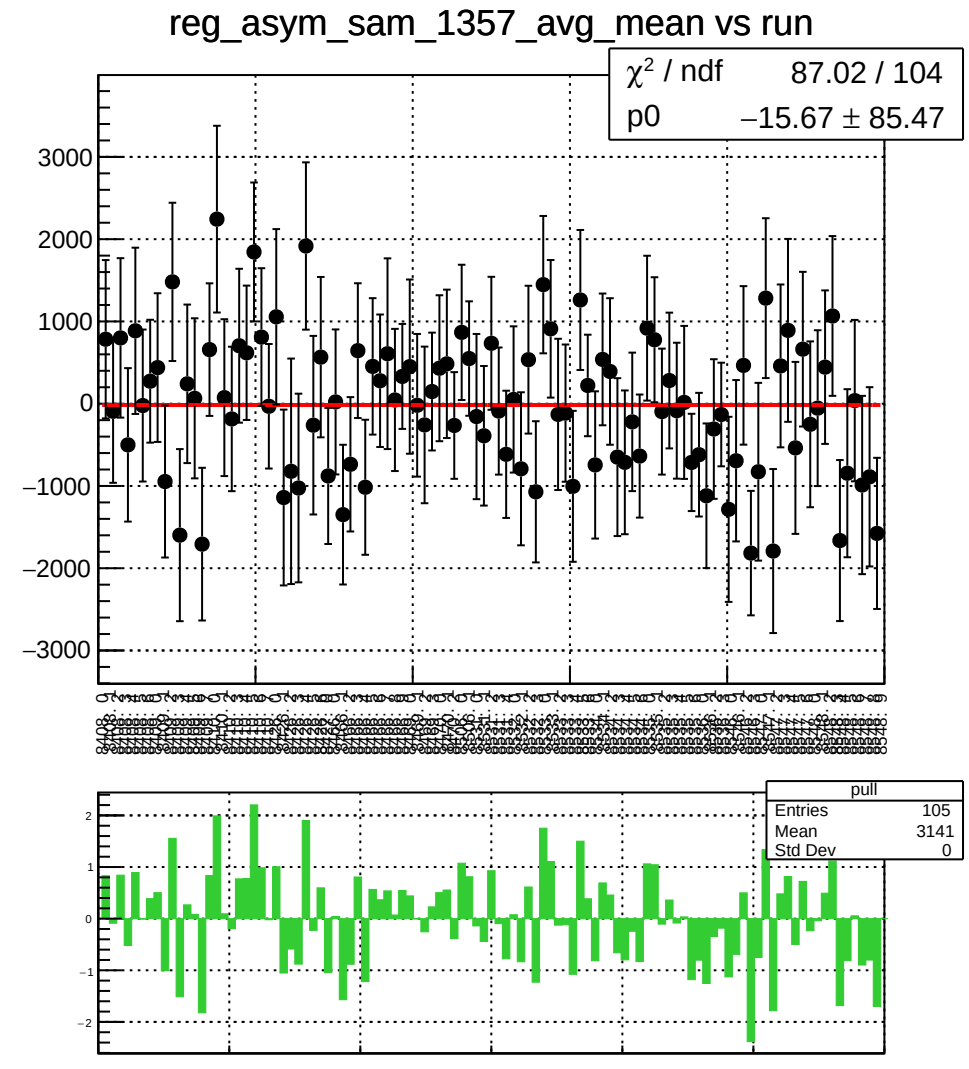

pull1D
Entries 105
Mean 0.004935
Std Dev 1.021

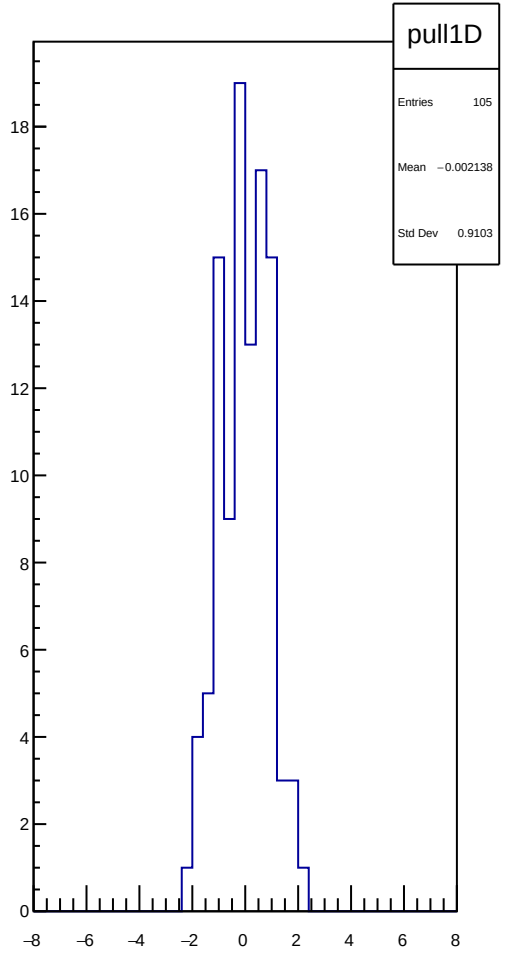

asym_sam_37_26_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.026e+04 / 104
p0 32.26 ± 0.02307
55
50
45
40
35
30
25
20

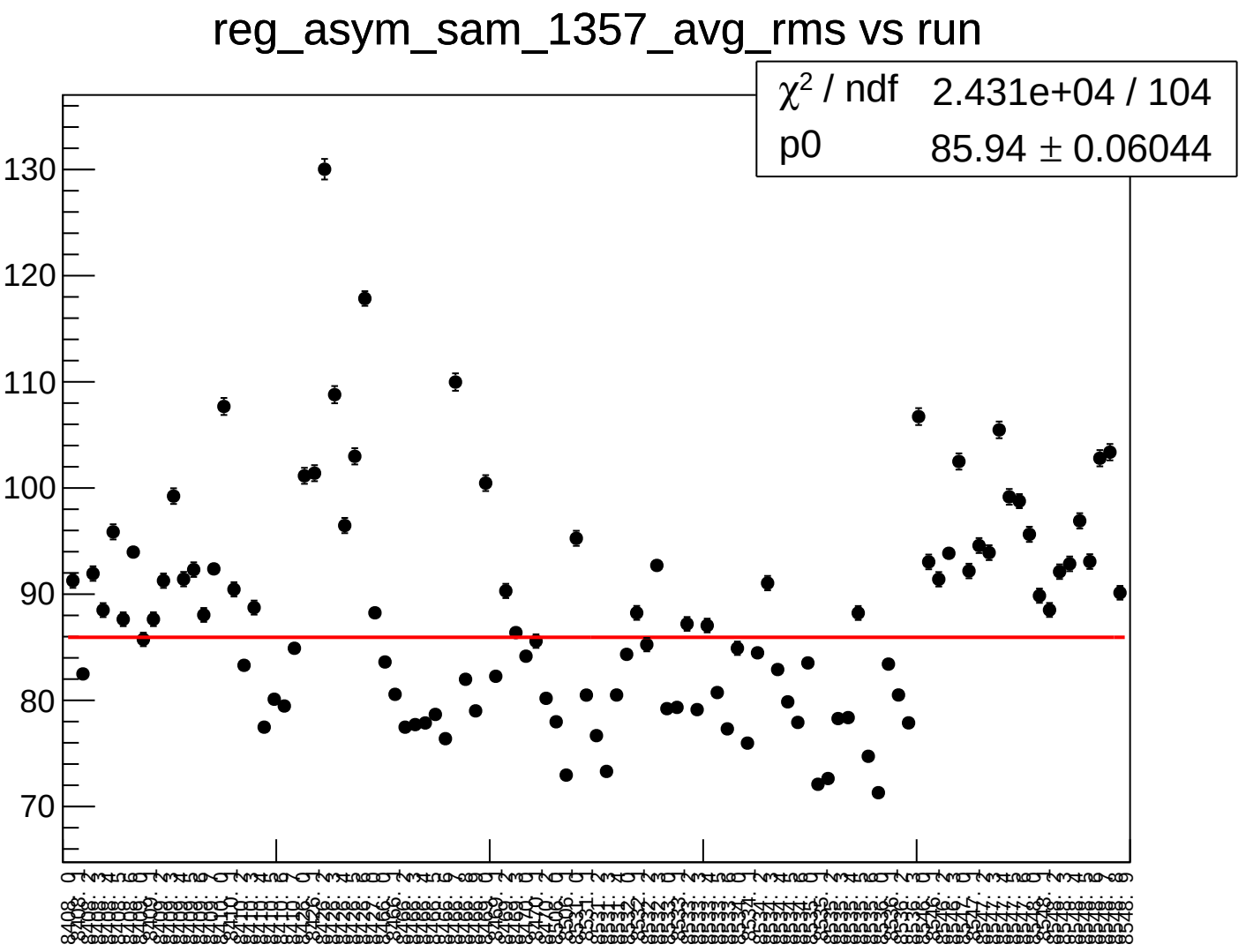

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.11 / 104
p0 1.149e−15 ± 1.021e−14
pull
Entries 105
Mean 133.7
Std Dev 0

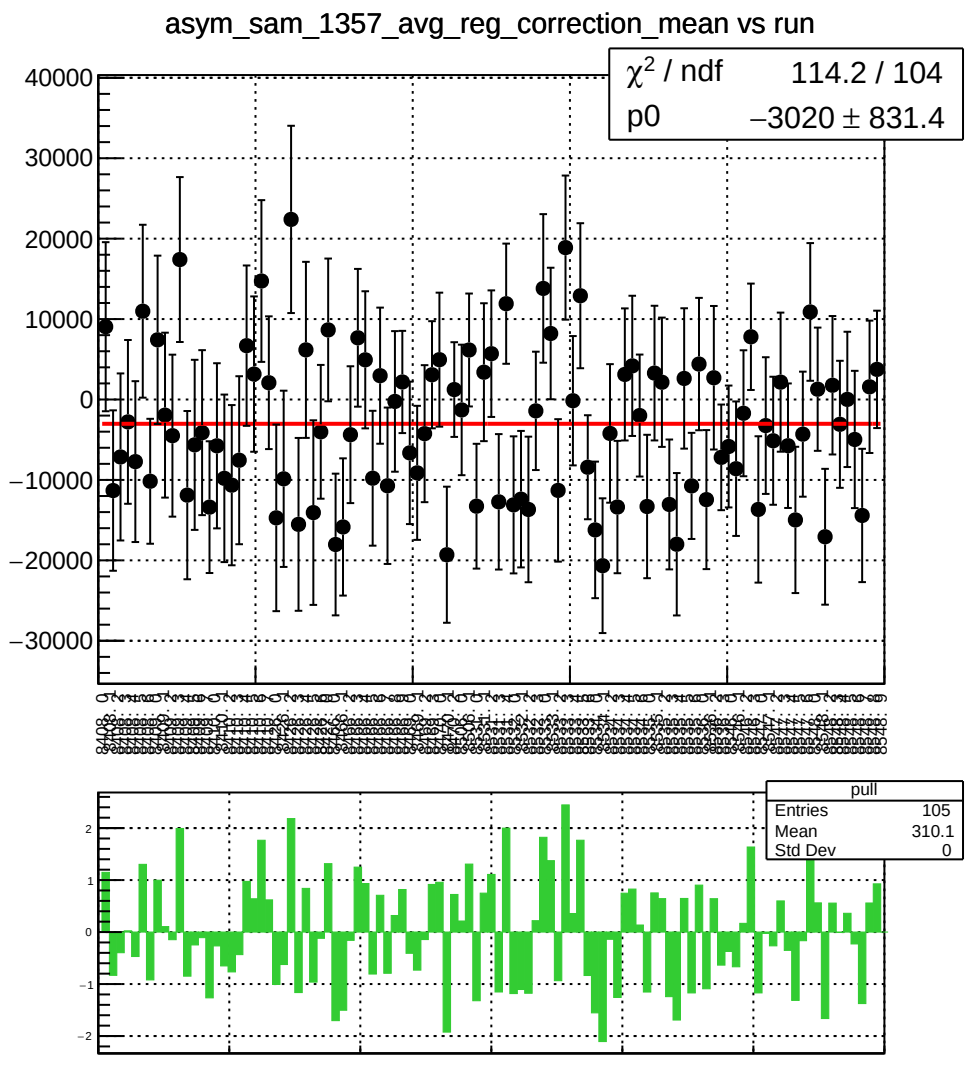

pull1D
Entries 105
Mean 0.0157
Std Dev 0.9365

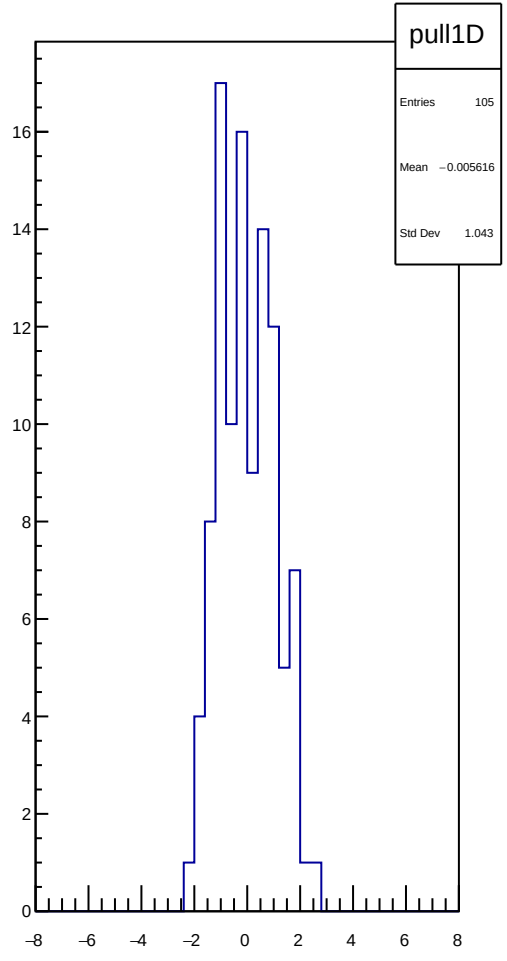

asym_sam_37_26_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻¹²
χ² / ndf 5.249e+05 / 104
p0 8.907e−12 ± 7.221e−15
50
40
30
20
10

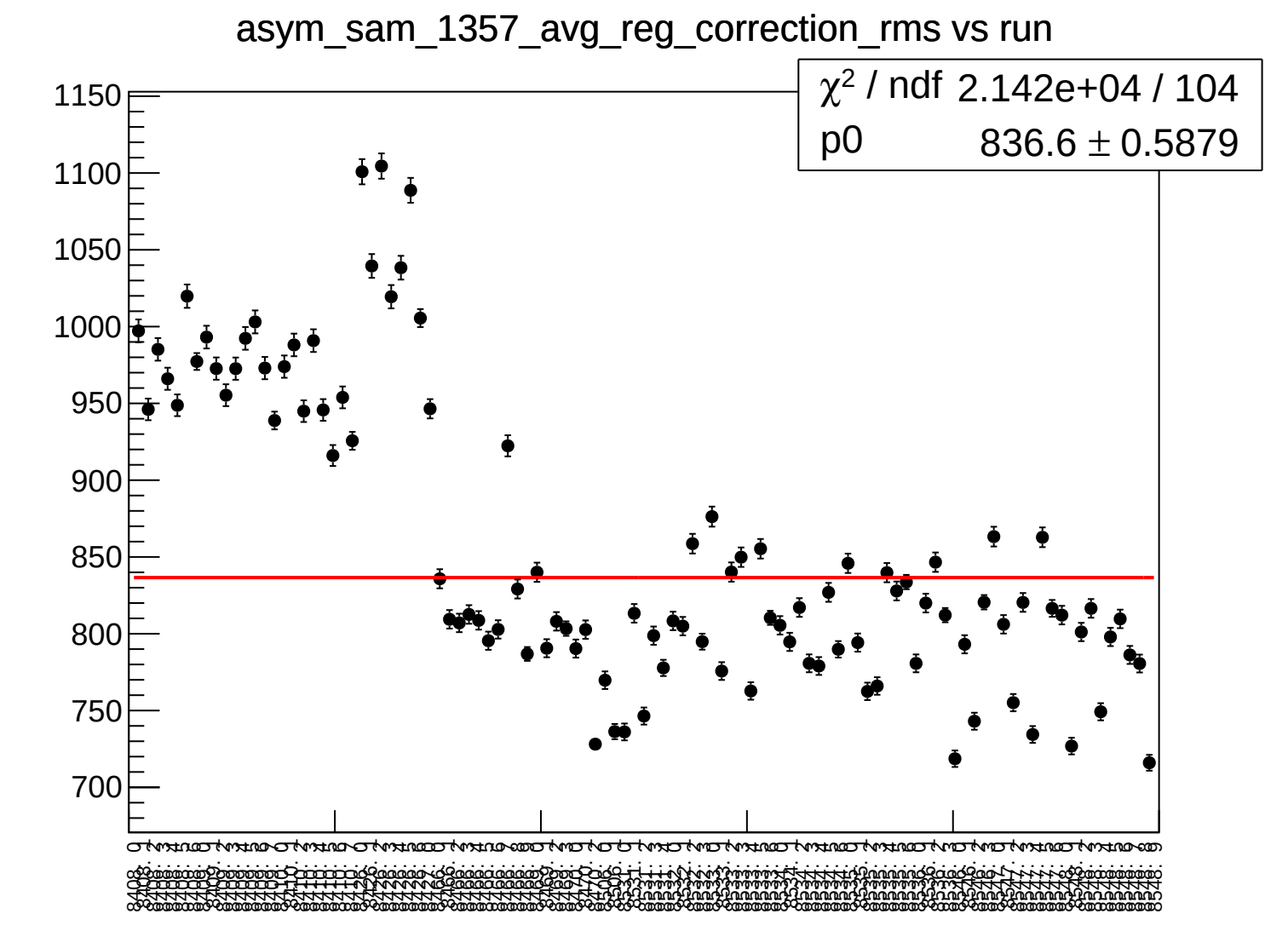

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 87.02 / 104
p0 −15.67 ± 85.47
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 105
Mean 3141
Std Dev 0
2
1
0
−1
−2

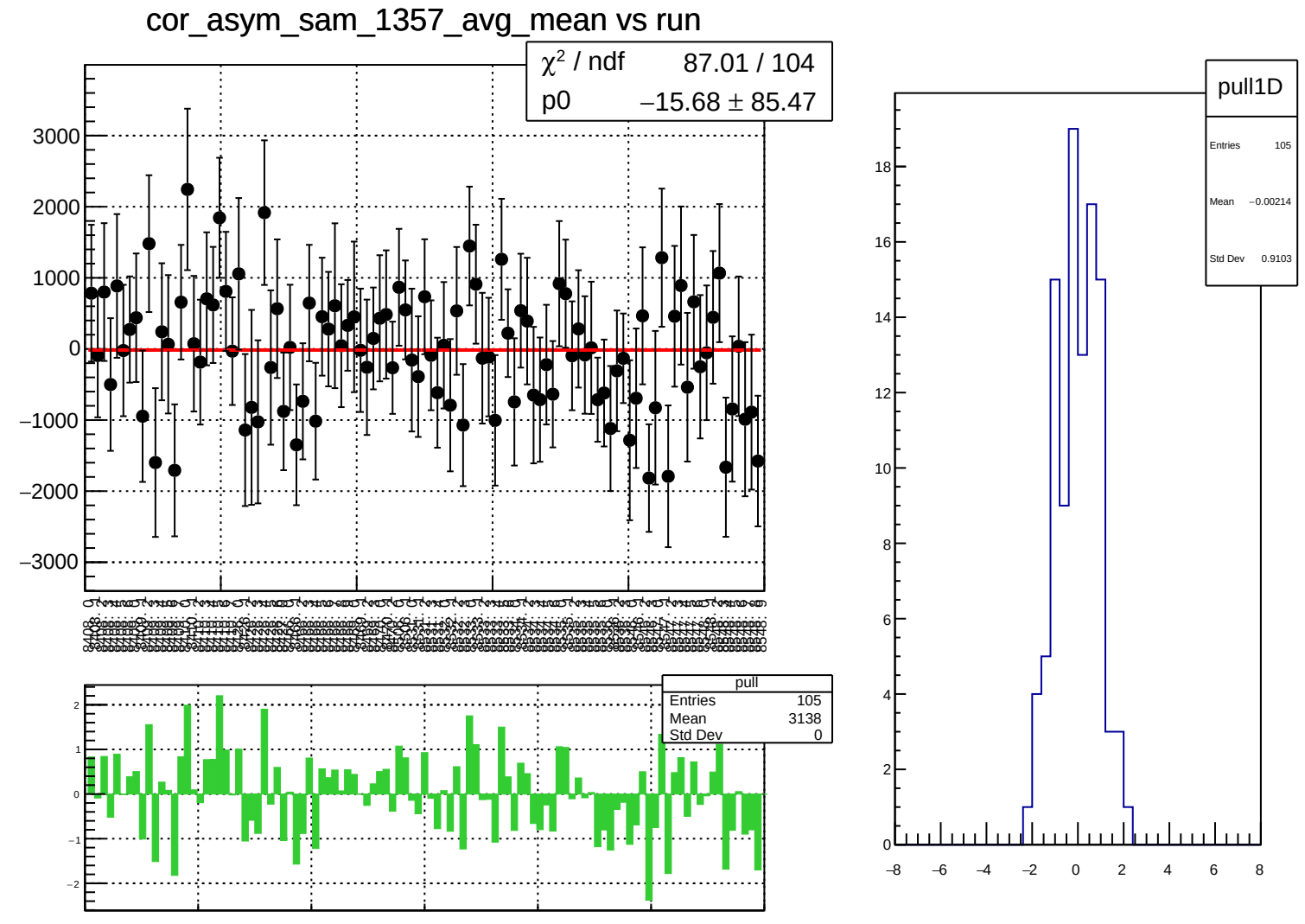

pull1D
Entries 105
Mean −0.002138
Std Dev 0.9103
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

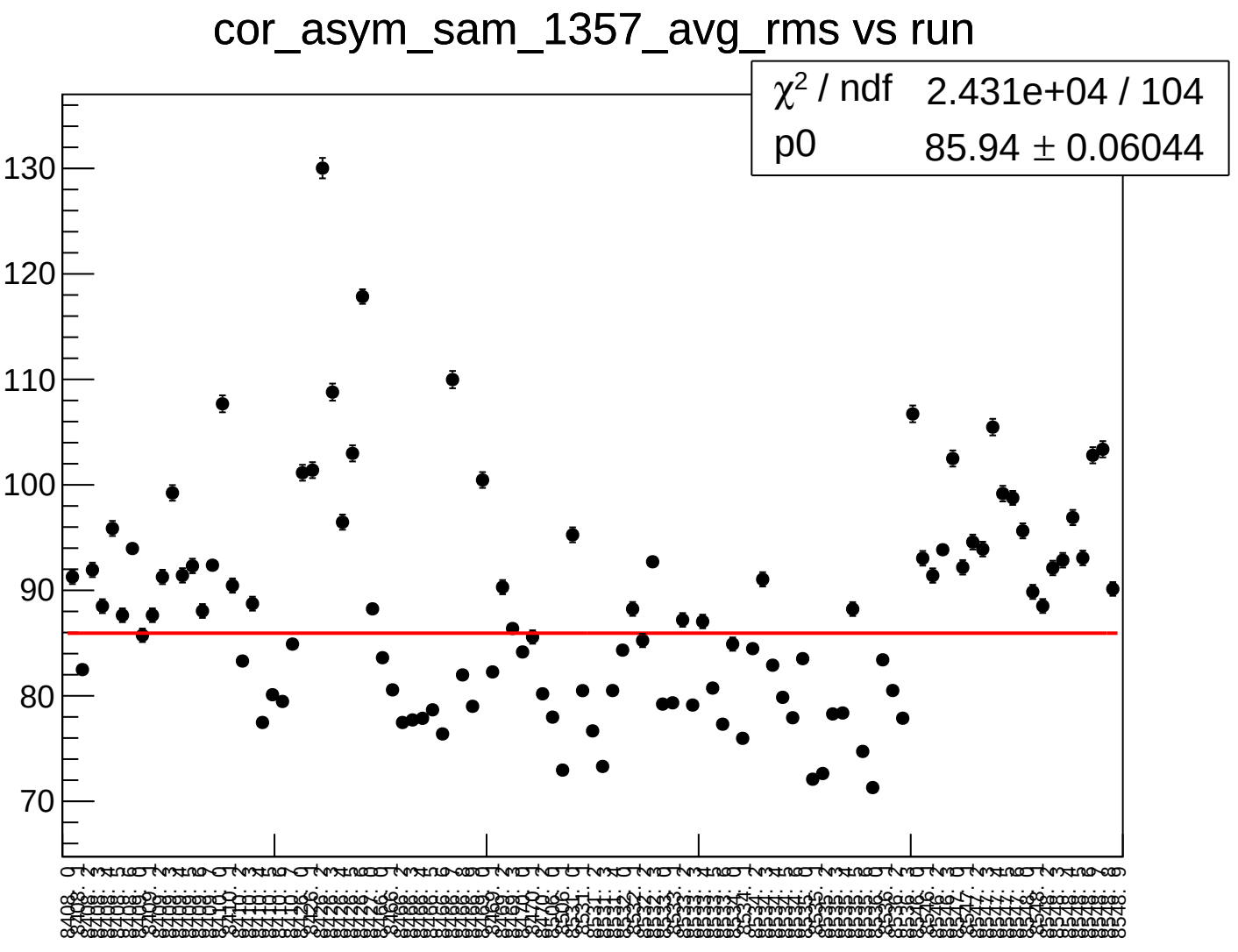

reg_asym_sam_1357_avg_rms vs run
χ^2 / ndf 2.431e+04 / 104
p0 85.94 ± 0.06044
130
120
110
100
90
80
70

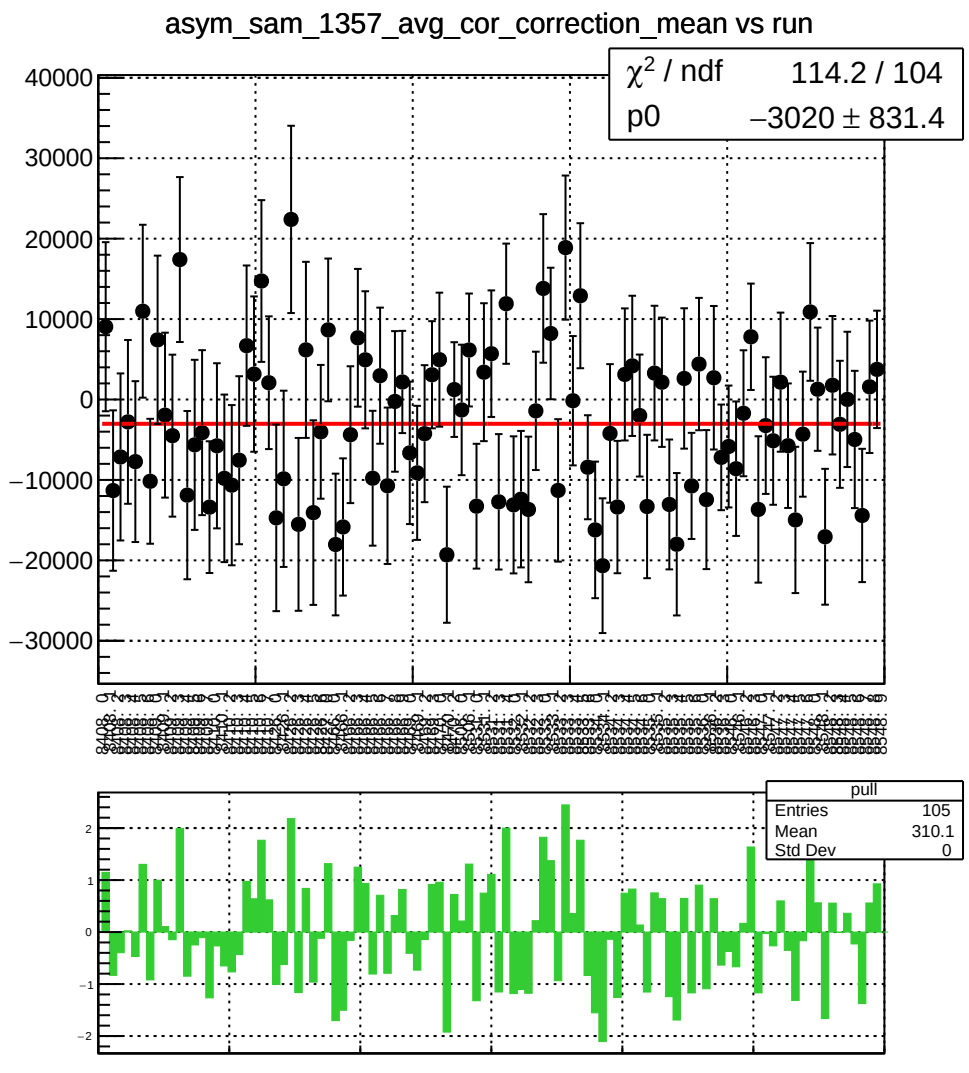

asym_sam_1357_avg_reg_correction_mean vs run
χ² / ndf 114.2 / 104
p0 −3020 ± 831.4
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 105
Mean 310.1
Std Dev 0
2
1
0
−1
−2

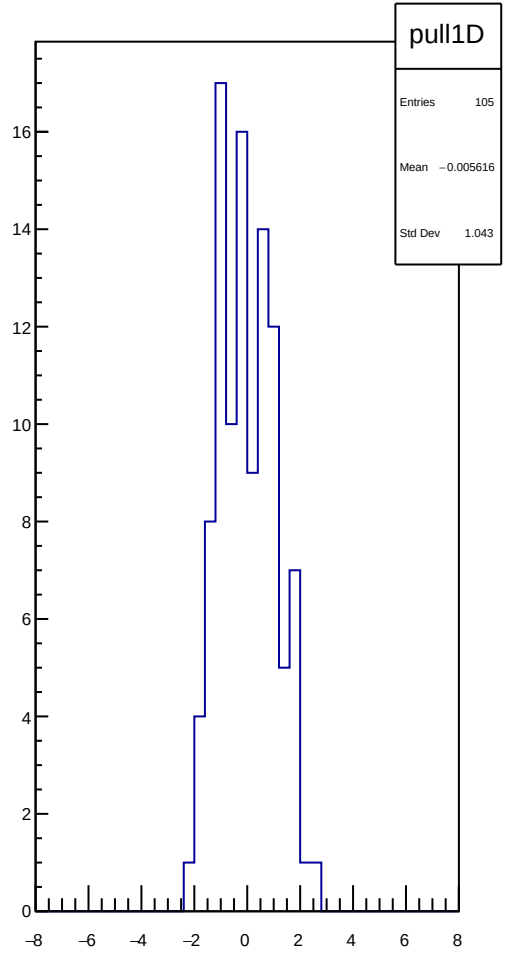

pull1D
Entries 105
Mean −0.005616
Std Dev 1.043
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

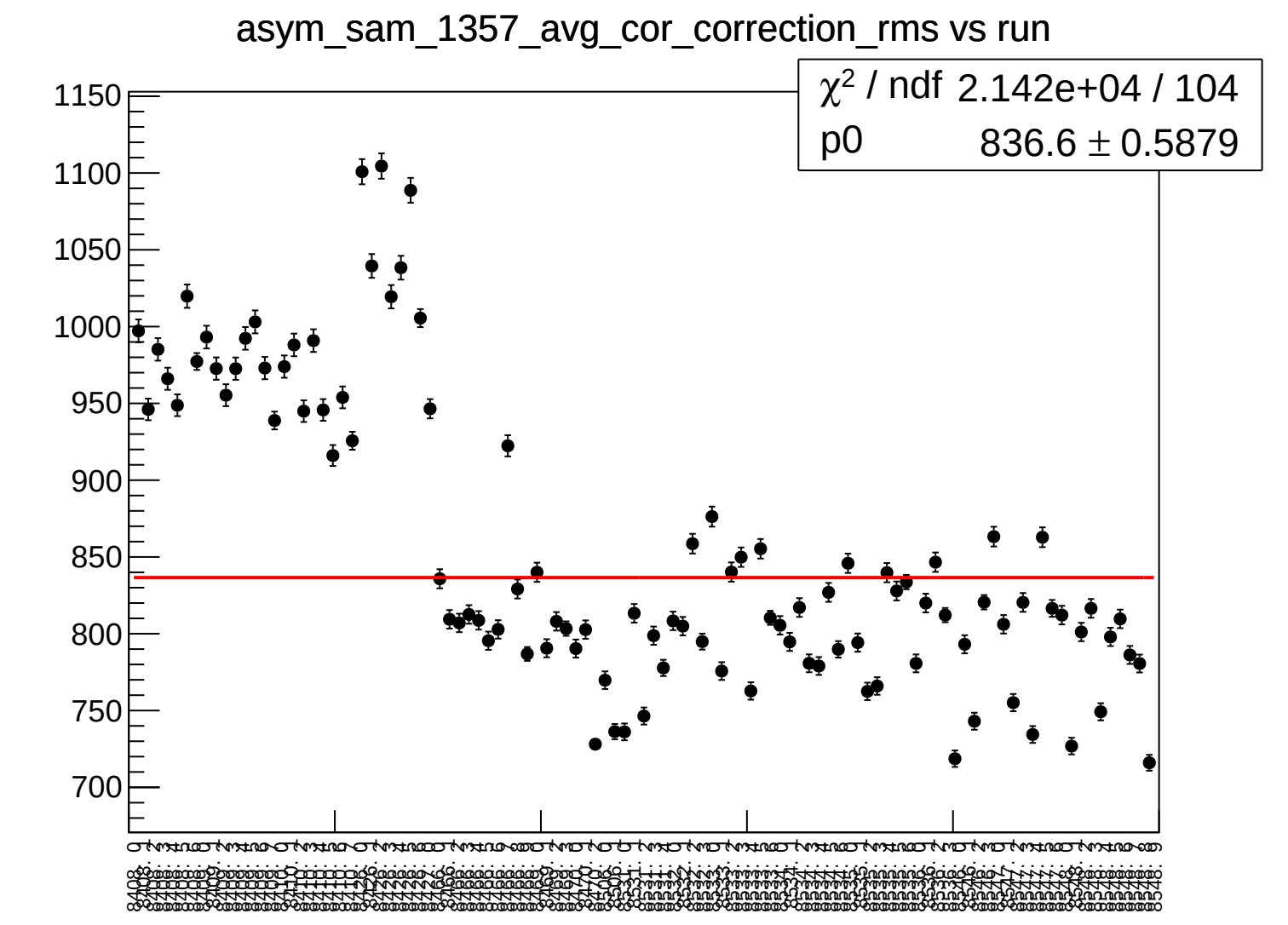

asym_sam_1357_avg_reg_correction_rms vs run
χ² / ndf 2.142e+04 / 104
p0 836.6 ± 0.5879
1150
1100
1050
1000
950
900
850
800
750
700

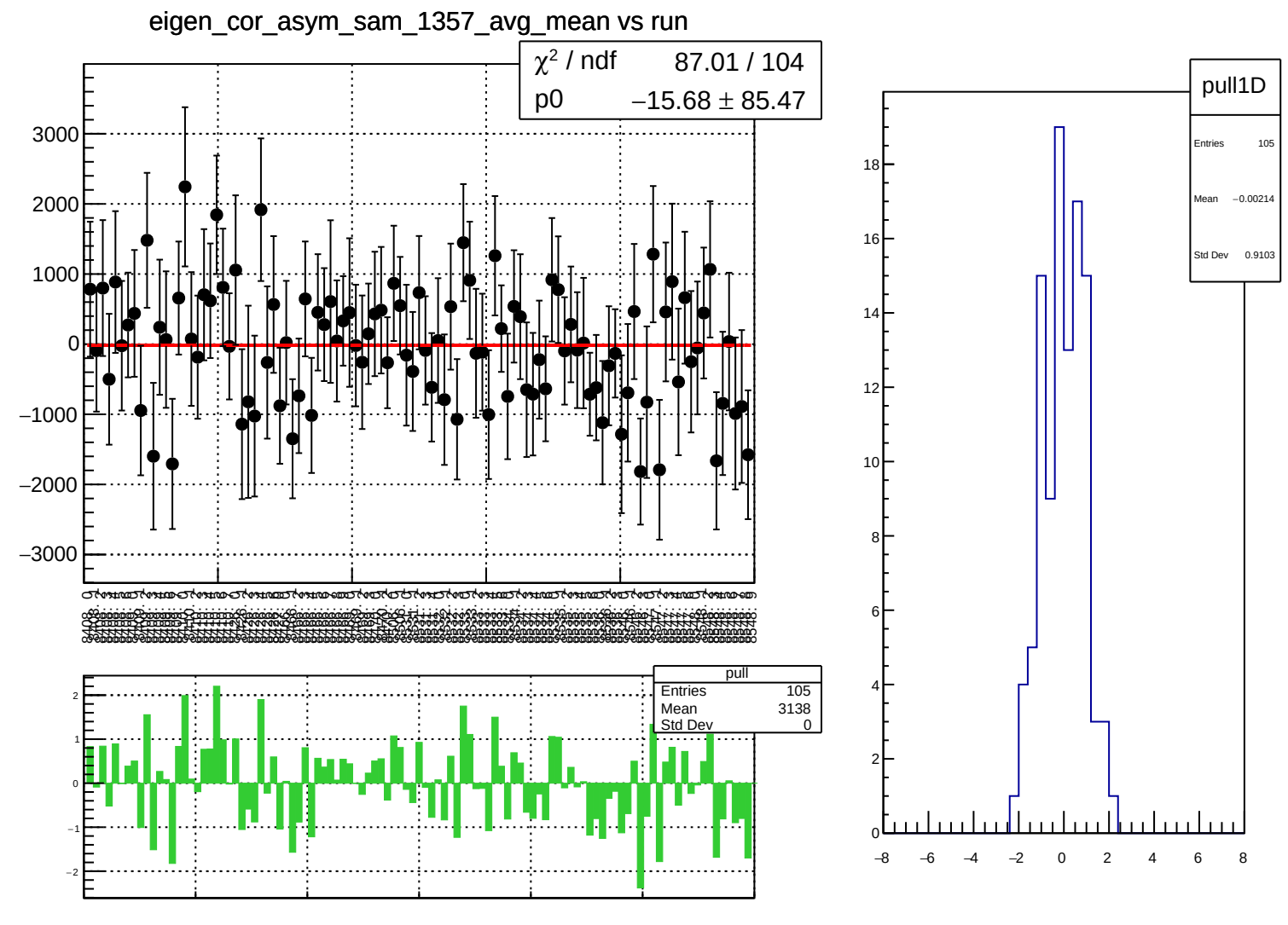

cor_asym_sam_1357_avg_mean vs run
χ² / ndf 87.01 / 104
p0 −15.68 ± 85.47
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 105
Mean 3138
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.00214
Std Dev 0.9103
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

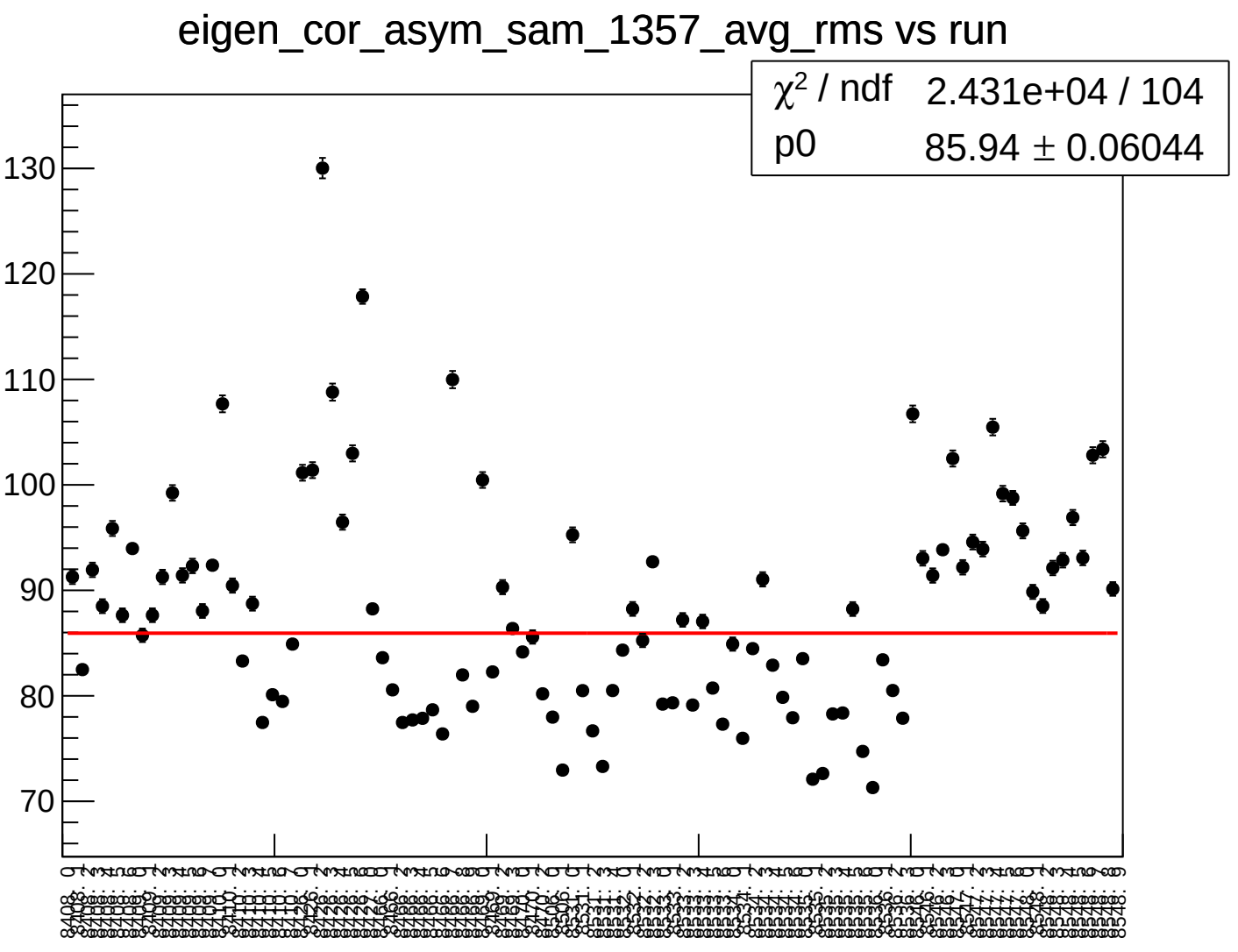

cor_asym_sam_1357_avg_rms vs run
χ^2 / ndf 2.431e+04 / 104
p0 85.94 ± 0.06044
130
120
110
100
90
80
70

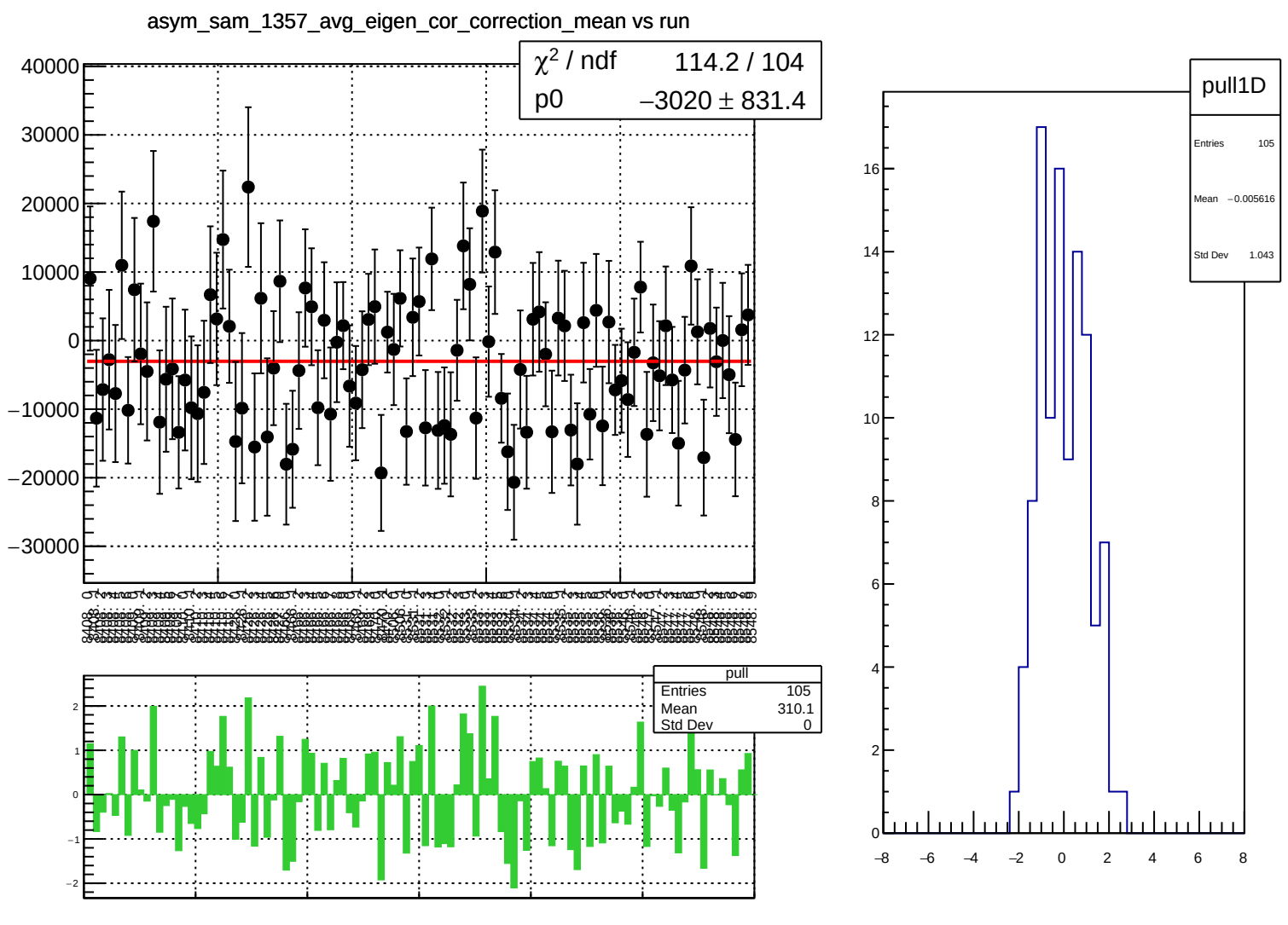

asym_sam_1357_avg_cor_correction_mean vs run
χ² / ndf 114.2 / 104
p0 −3020 ± 831.4
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 105
Mean 310.1
Std Dev 0
2
1
0
−1
−2

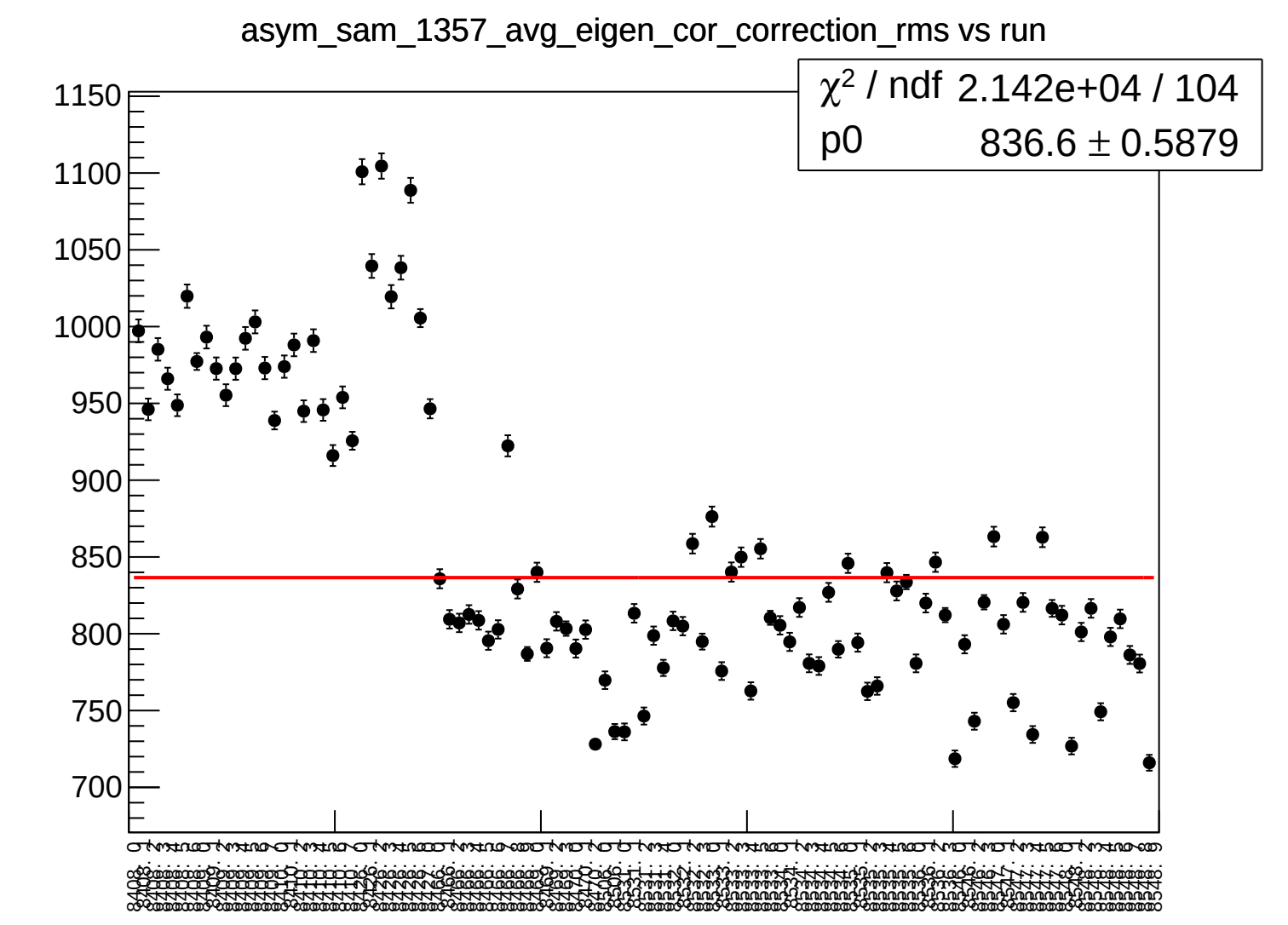

pull1D
Entries 105
Mean −0.005616
Std Dev 1.043
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

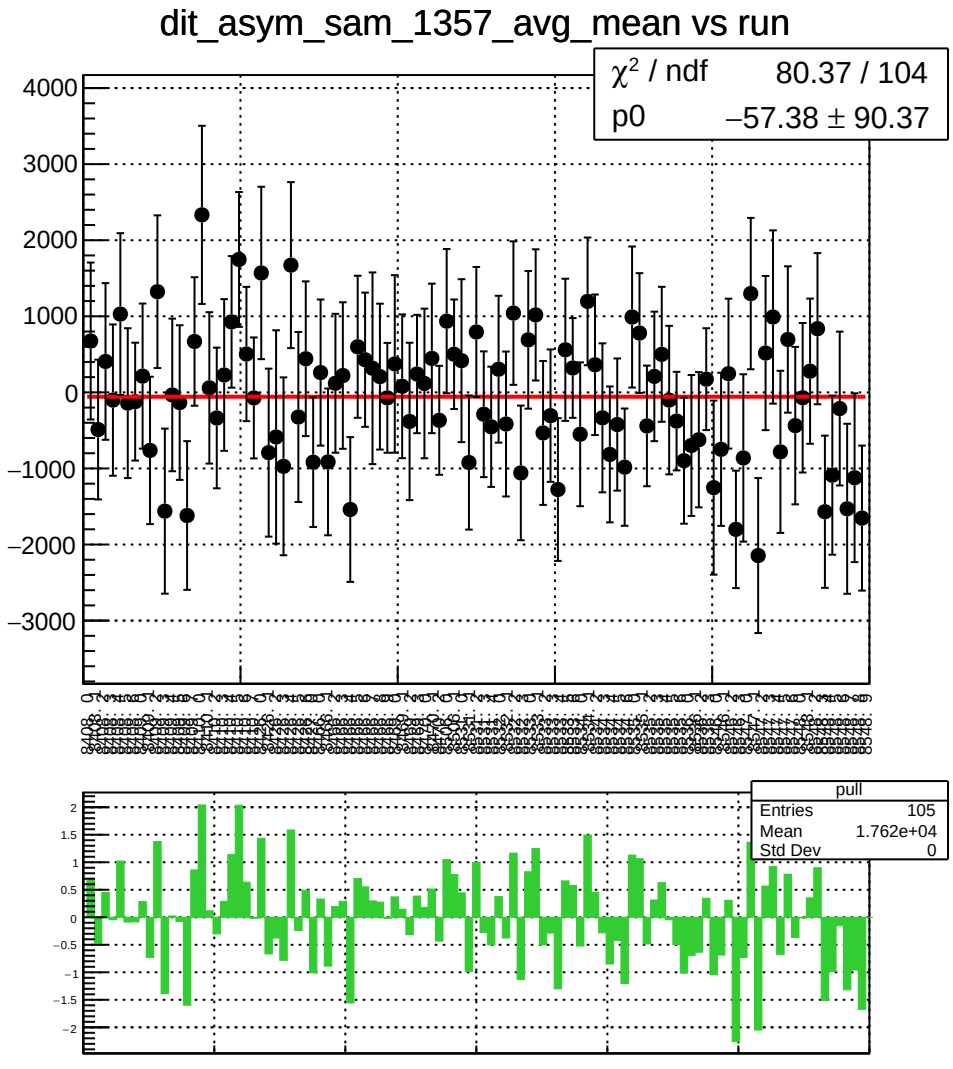

asym_sam_1357_avg_cor_correction_rms vs run
χ² / ndf 2.142e+04 / 104
p0 836.6 ± 0.5879
1150
1100
1050
1000
950
900
850
800
750
700

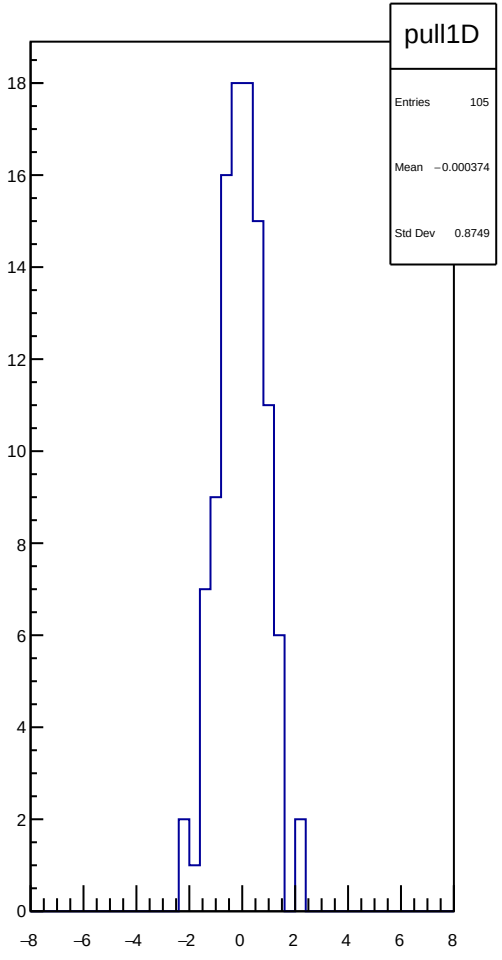

eigen_cor_asym_sam_1357_avg_mean vs run
χ² / ndf 87.01 / 104
p0 −15.68 ± 85.47
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 105
Mean 3138
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.00214
Std Dev 0.9103
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

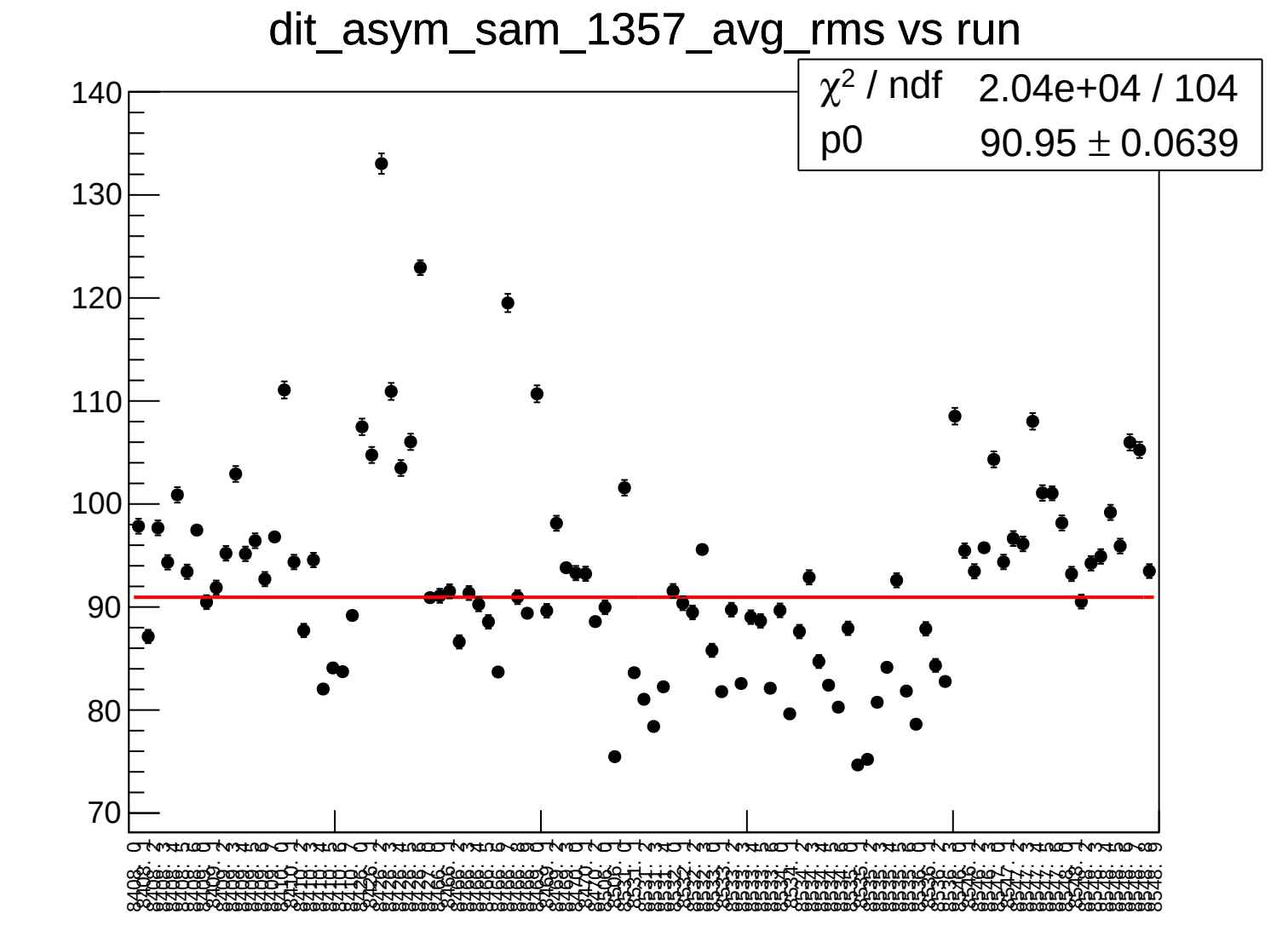

eigen_cor_asym_sam_1357_avg_rms vs run
χ^2 / ndf 2.431e+04 / 104
p0 85.94 ± 0.06044
130
120
110
100
90
80
70

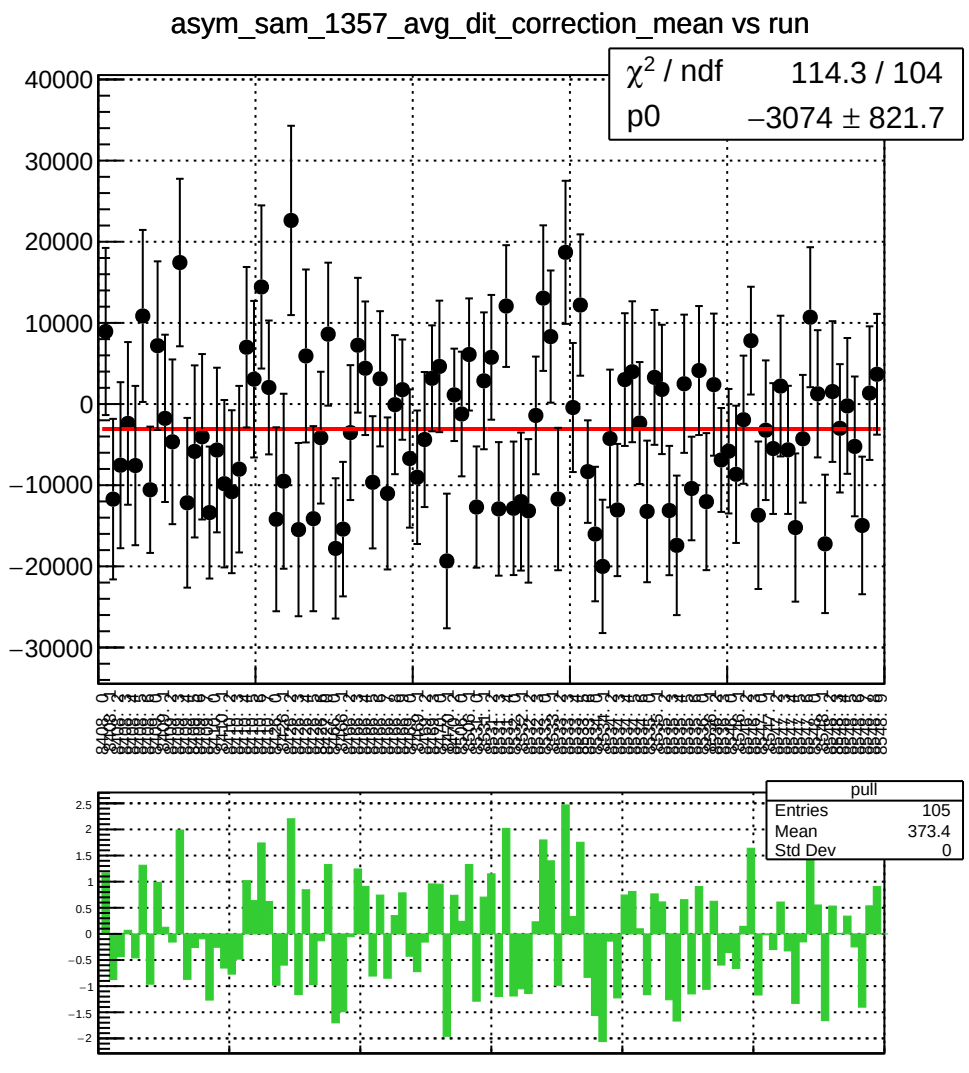

asym_sam_1357_avg_eigen_cor_correction_mean vs run
χ² / ndf 114.2 / 104
p0 −3020 ± 831.4
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 105
Mean 310.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.005616
Std Dev 1.043
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

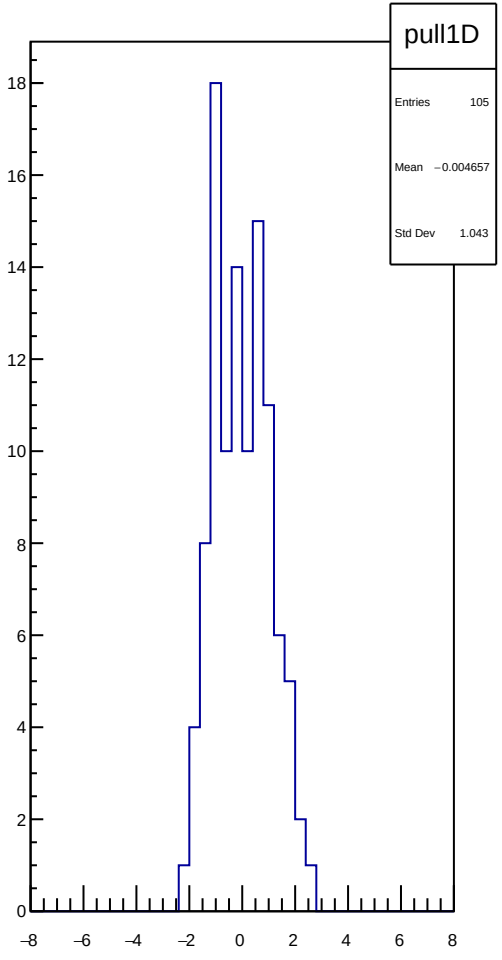

asym_sam_1357_avg_eigen_cor_correction_rms vs run
χ² / ndf 2.142e+04 / 104
p0 836.6 ± 0.5879
1150
1100
1050
1000
950
900
850
800
750
700

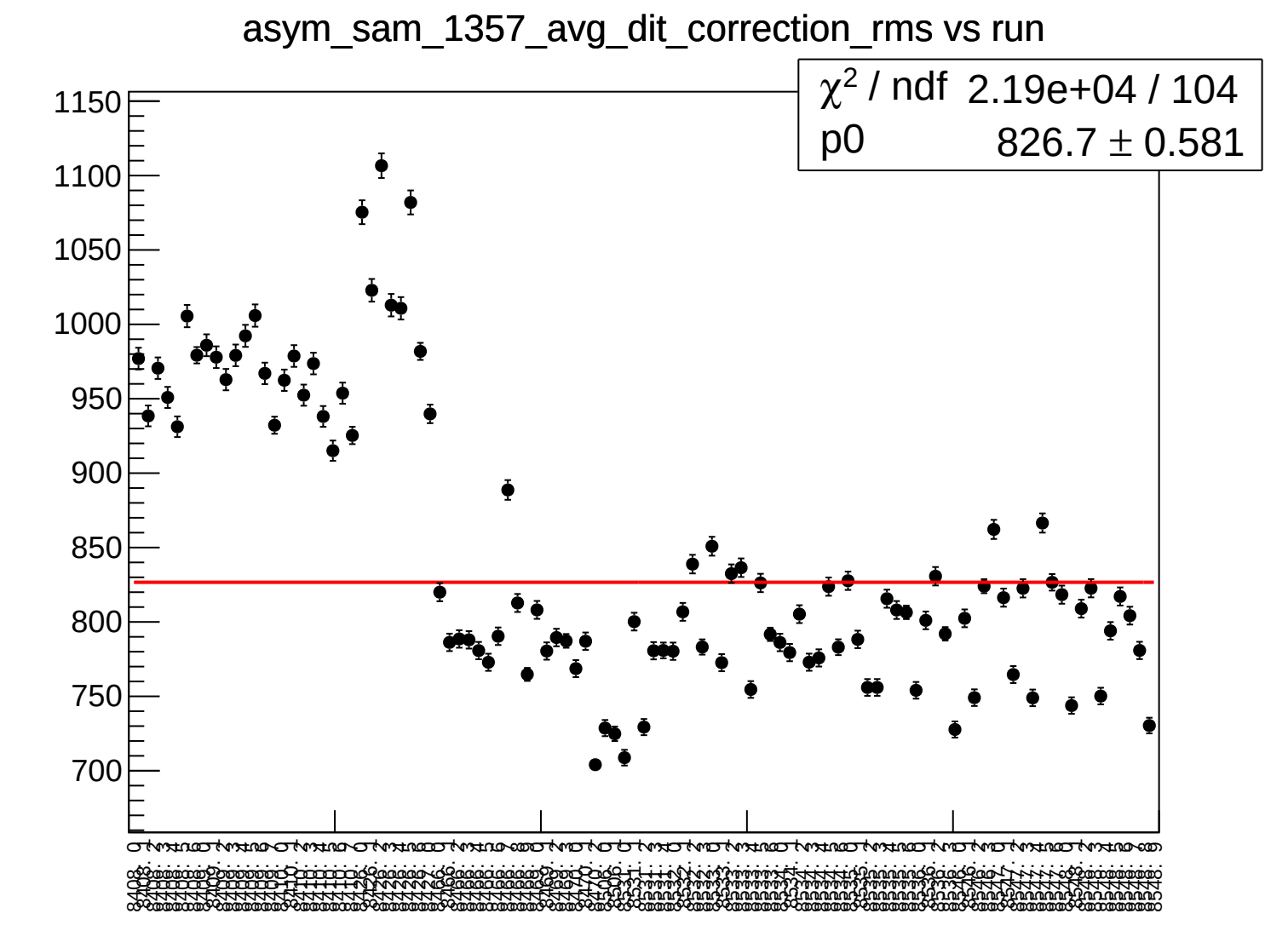

dit_asym_sam_1357_avg_mean vs run
χ² / ndf 80.37 / 104
p0 −57.38 ± 90.37
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 105
Mean 1.762e+04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

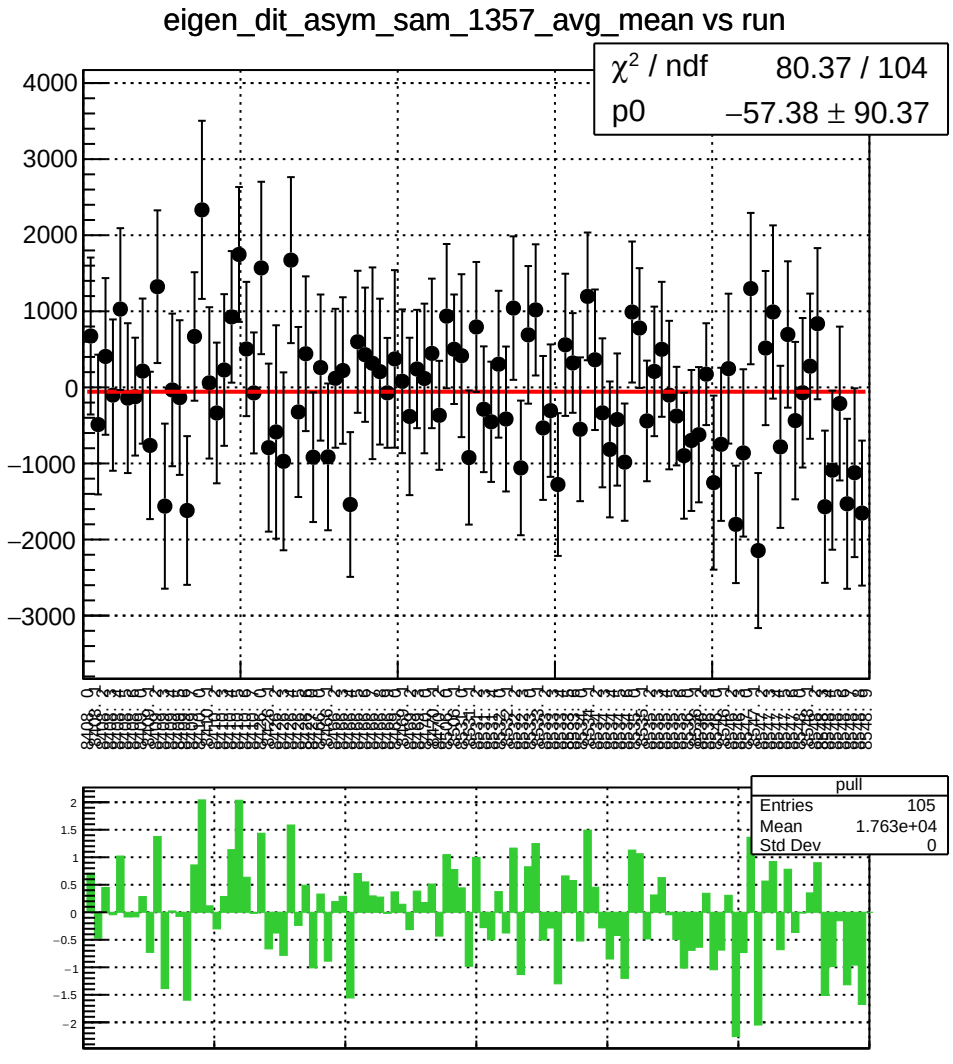

pull1D
Entries 105
Mean −0.000374
Std Dev 0.8749
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

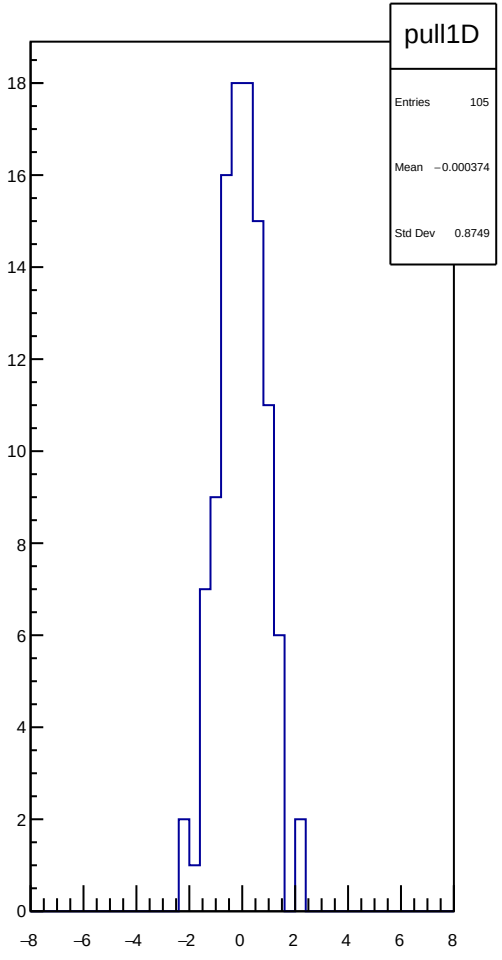

dit_asym_sam_1357_avg_rms vs run
χ² / ndf 2.04e+04 / 104
p0 90.95 ± 0.0639
140
130
120
110
100
90
80
70

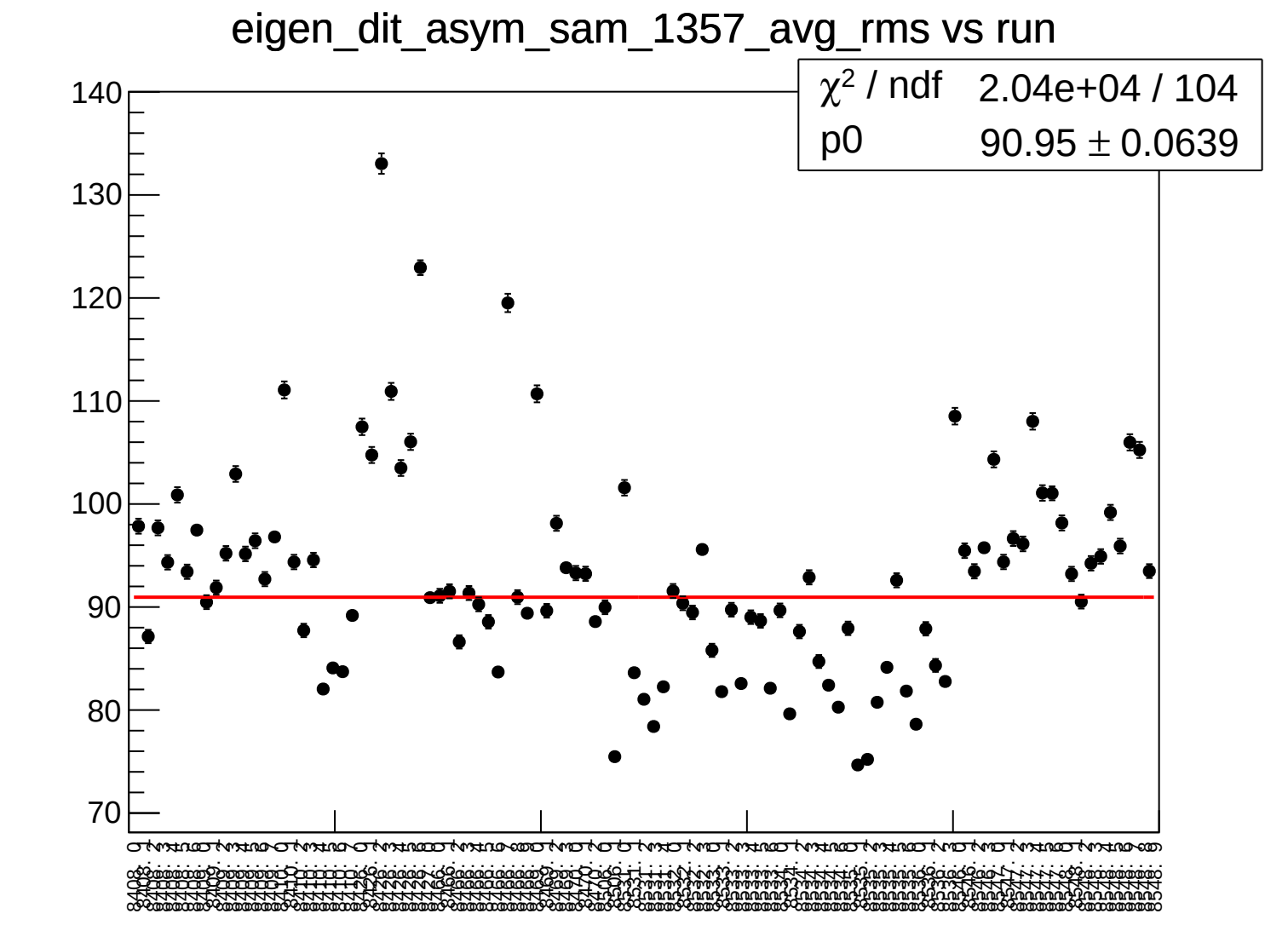

asym_sam_1357_avg_dit_correction_mean vs run
χ² / ndf 114.3 / 104
p0 −3074 ± 821.7
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 105
Mean 373.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

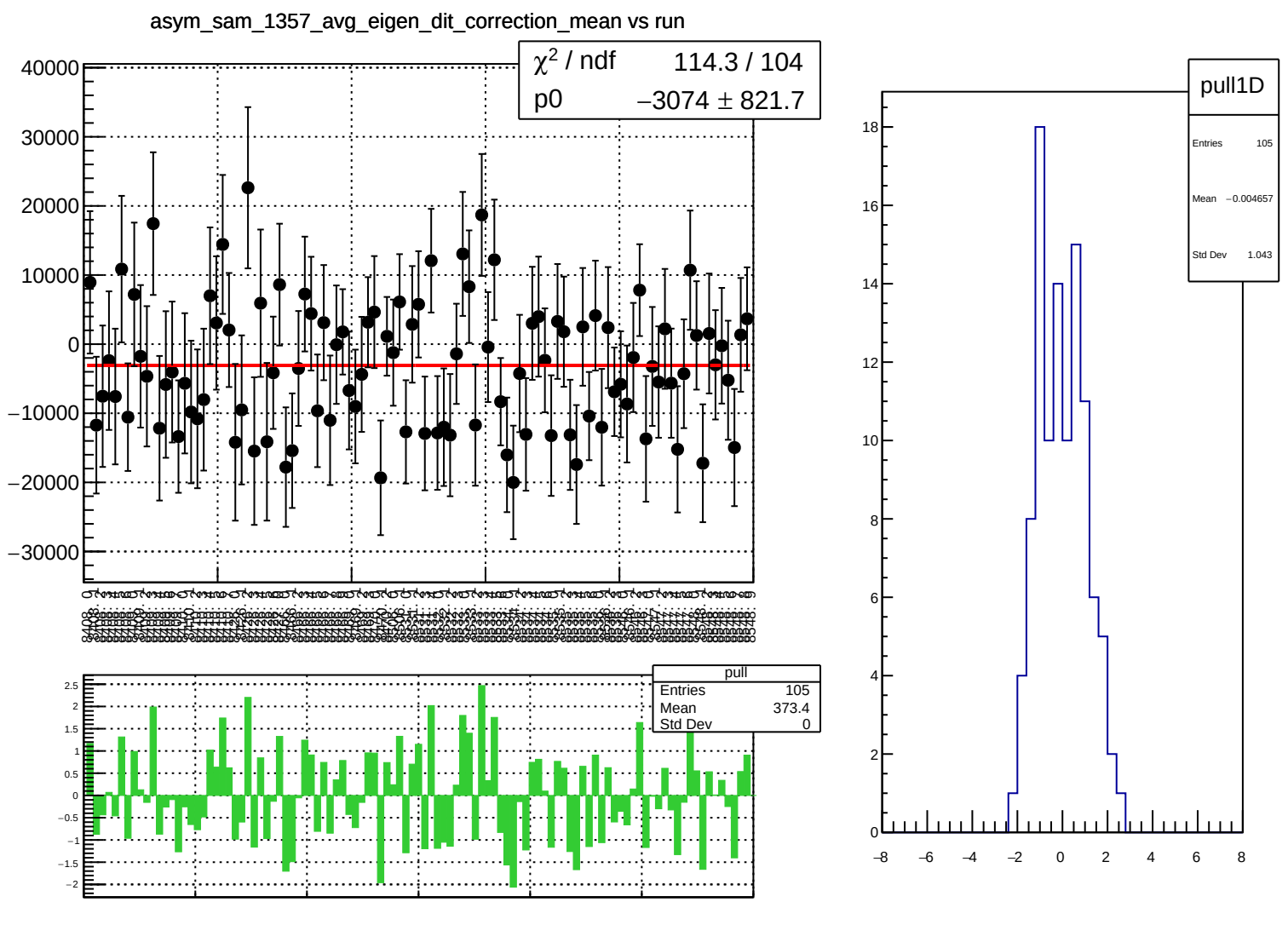

pull1D
Entries 105
Mean −0.004657
Std Dev 1.043
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

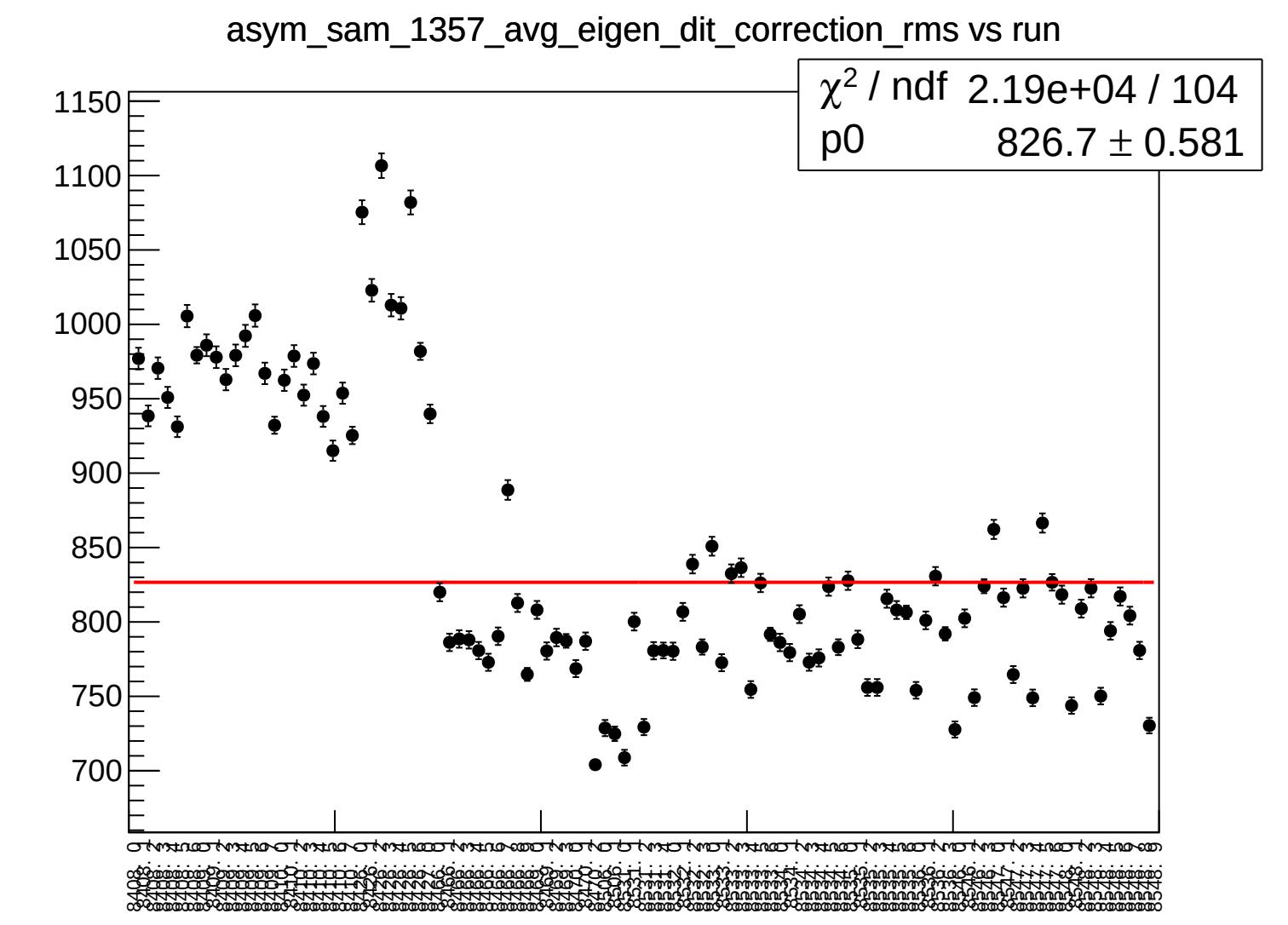

asym_sam_1357_avg_dit_correction_rms vs run
χ² / ndf 2.19e+04 / 104
p0 826.7 ± 0.581
1150
1100
1050
1000
950
900
850
800
750
700

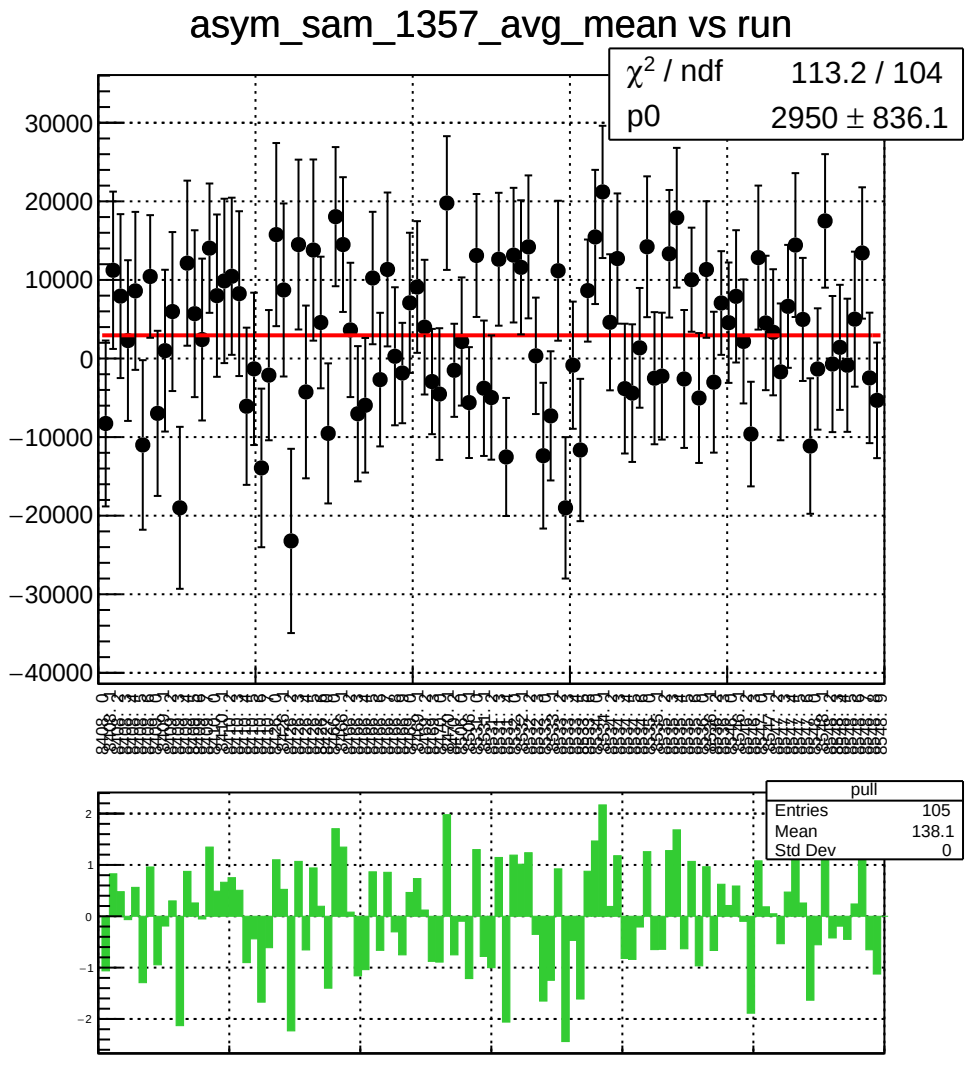

eigen_dit_asym_sam_1357_avg_mean vs run
χ² / ndf 80.37 / 104
p0 −57.38 ± 90.37
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 105
Mean 1.763e+04
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

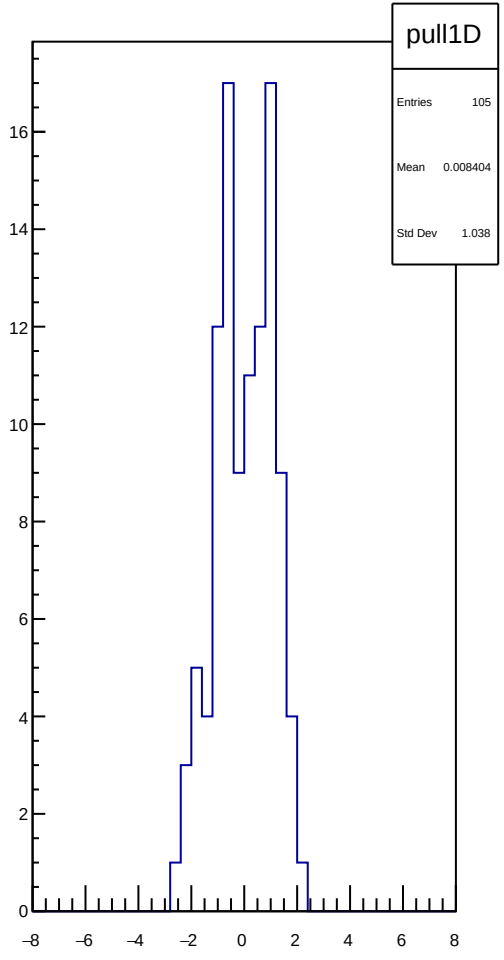

pull1D
Entries 105
Mean −0.000374
Std Dev 0.8749
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

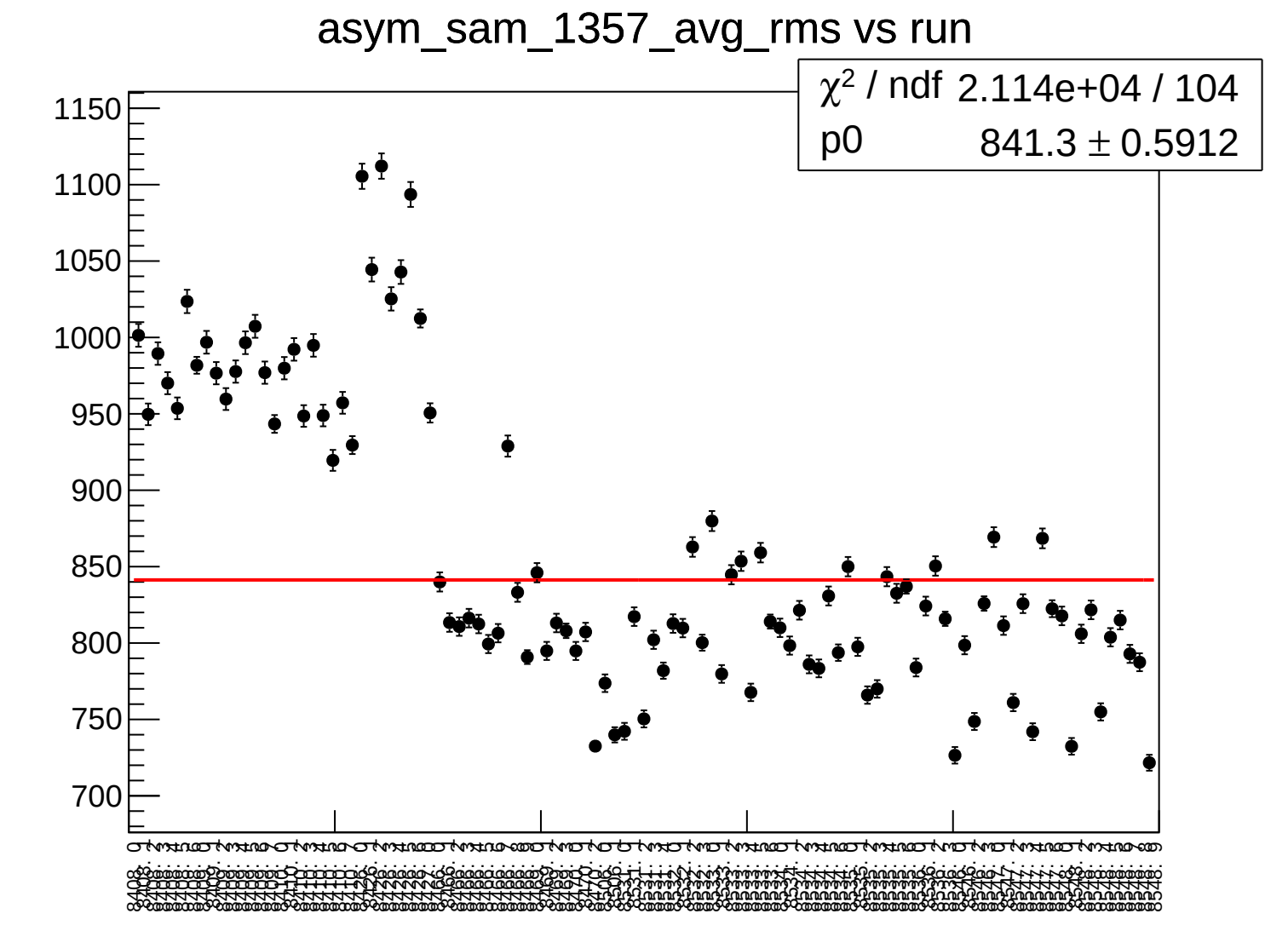

eigen_dit_asym_sam_1357_avg_rms vs run
χ² / ndf 2.04e+04 / 104
p0 90.95 ± 0.0639
140
130
120
110
100
90
80
70

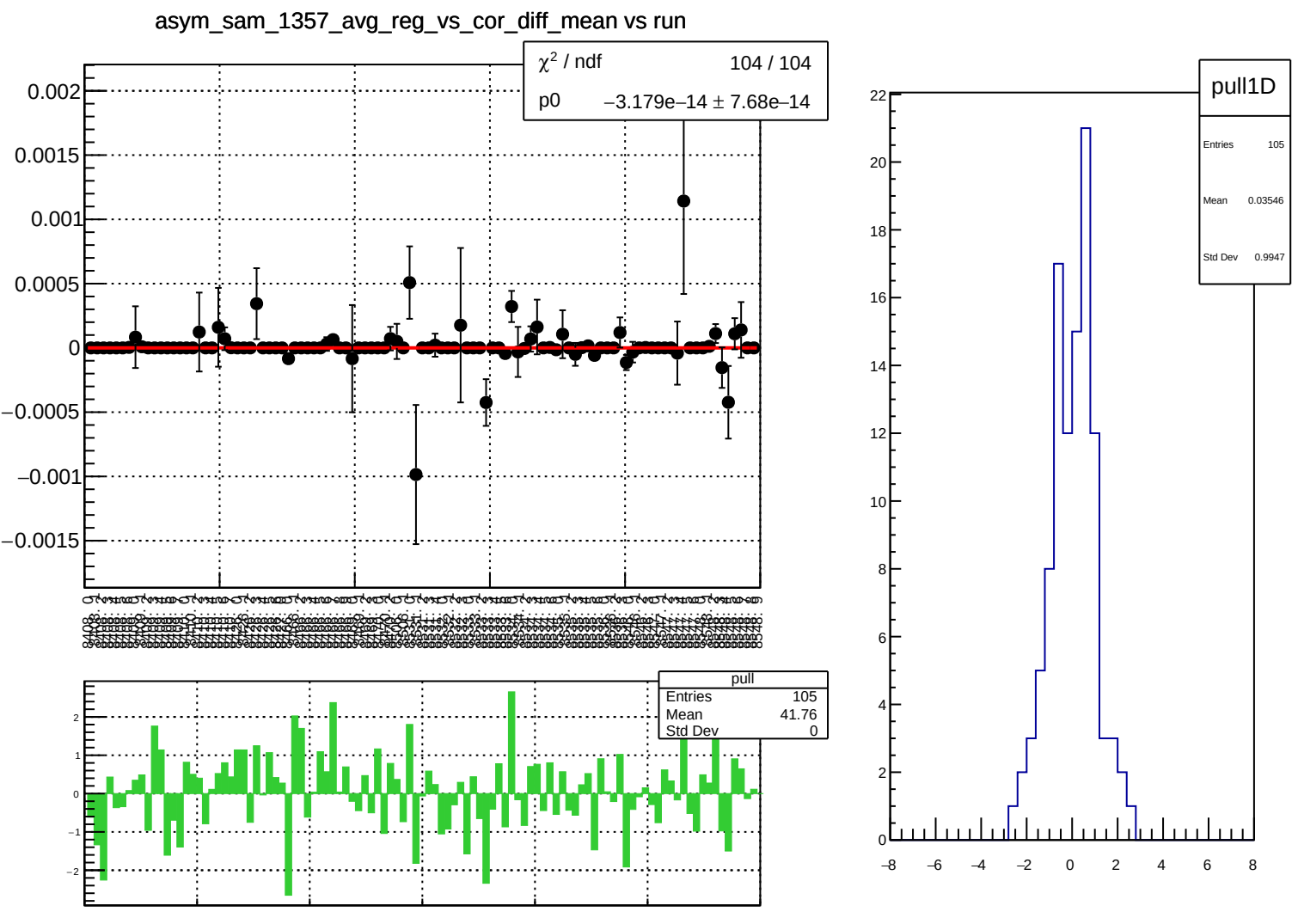

asym_sam_1357_avg_eigen_dit_correction_mean vs run
χ² / ndf 114.3 / 104
p0 −3074 ± 821.7
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 105
Mean 373.4
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 105
Mean −0.004657
Std Dev 1.043
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

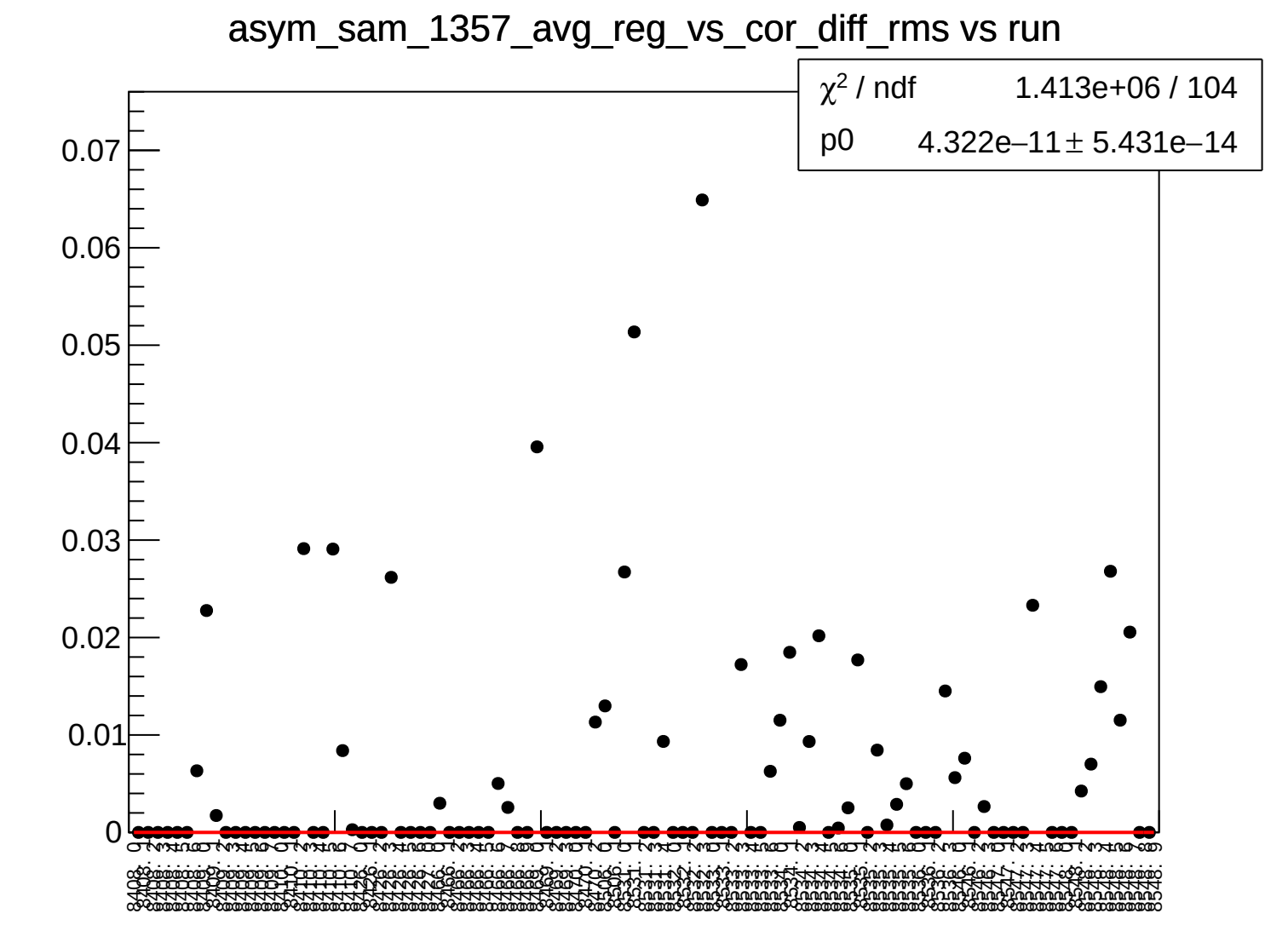

asym_sam_1357_avg_eigen_dit_correction_rms vs run
χ² / ndf 2.19e+04 / 104
p0 826.7 ± 0.581
1150
1100
1050
1000
950
900
850
800
750
700

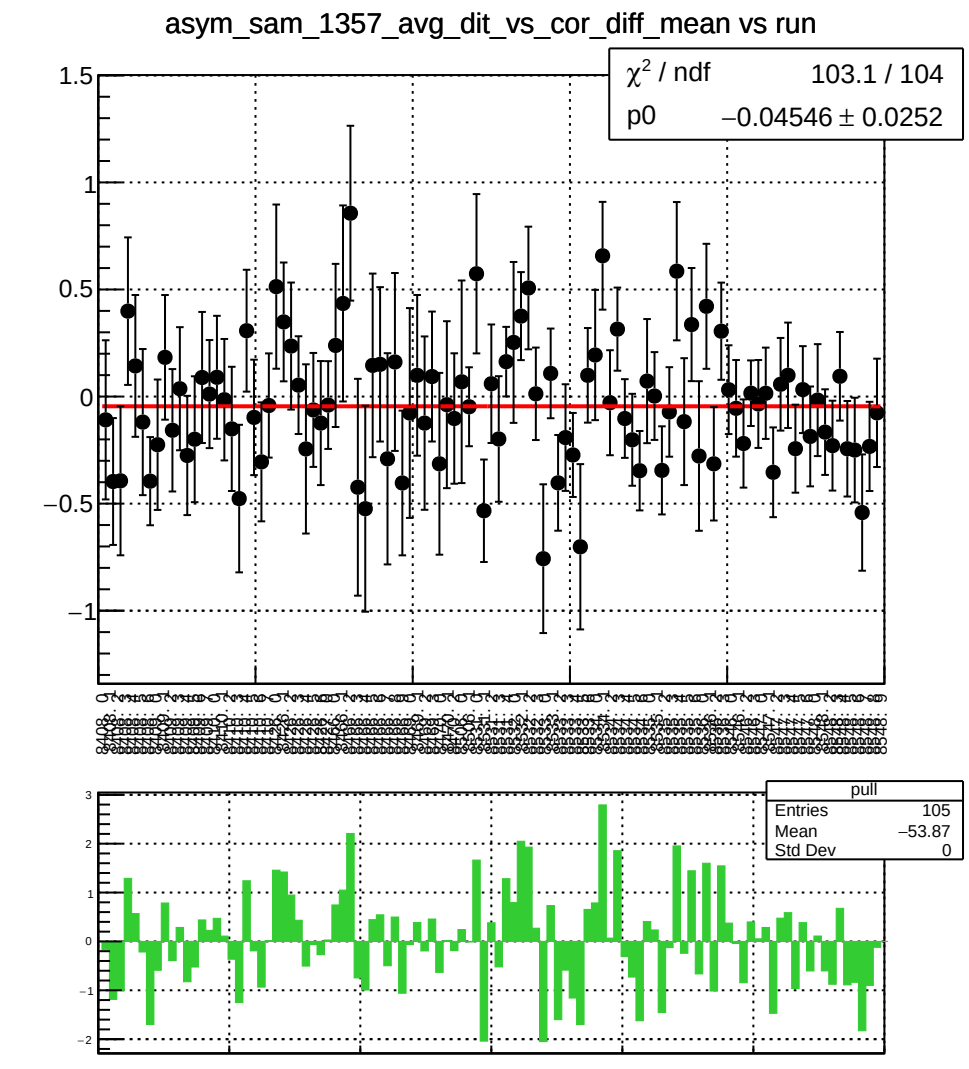

asym_sam_1357_avg_mean vs run
χ² / ndf 113.2 / 104
p0 2950 ± 836.1
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 105
Mean 138.1
Std Dev 0
2
1
0
−1
−2

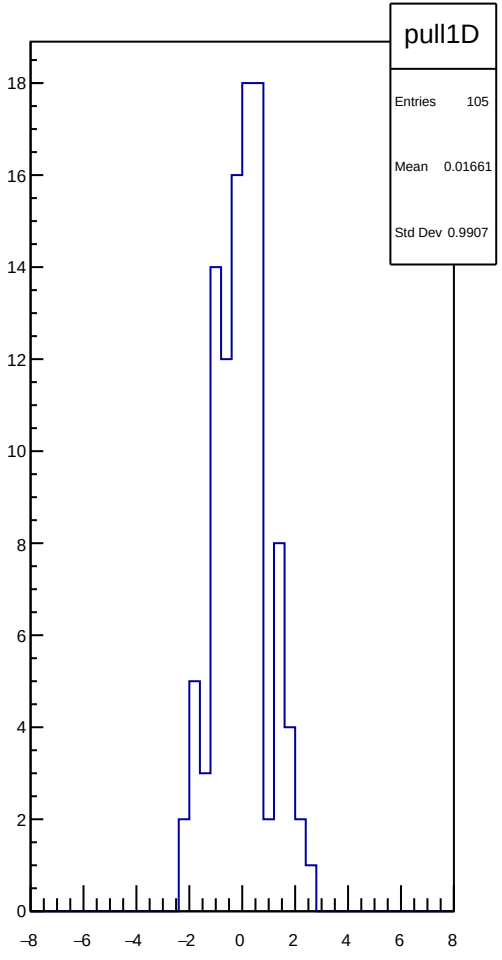

pull1D
Entries 105
Mean 0.008404
Std Dev 1.038
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

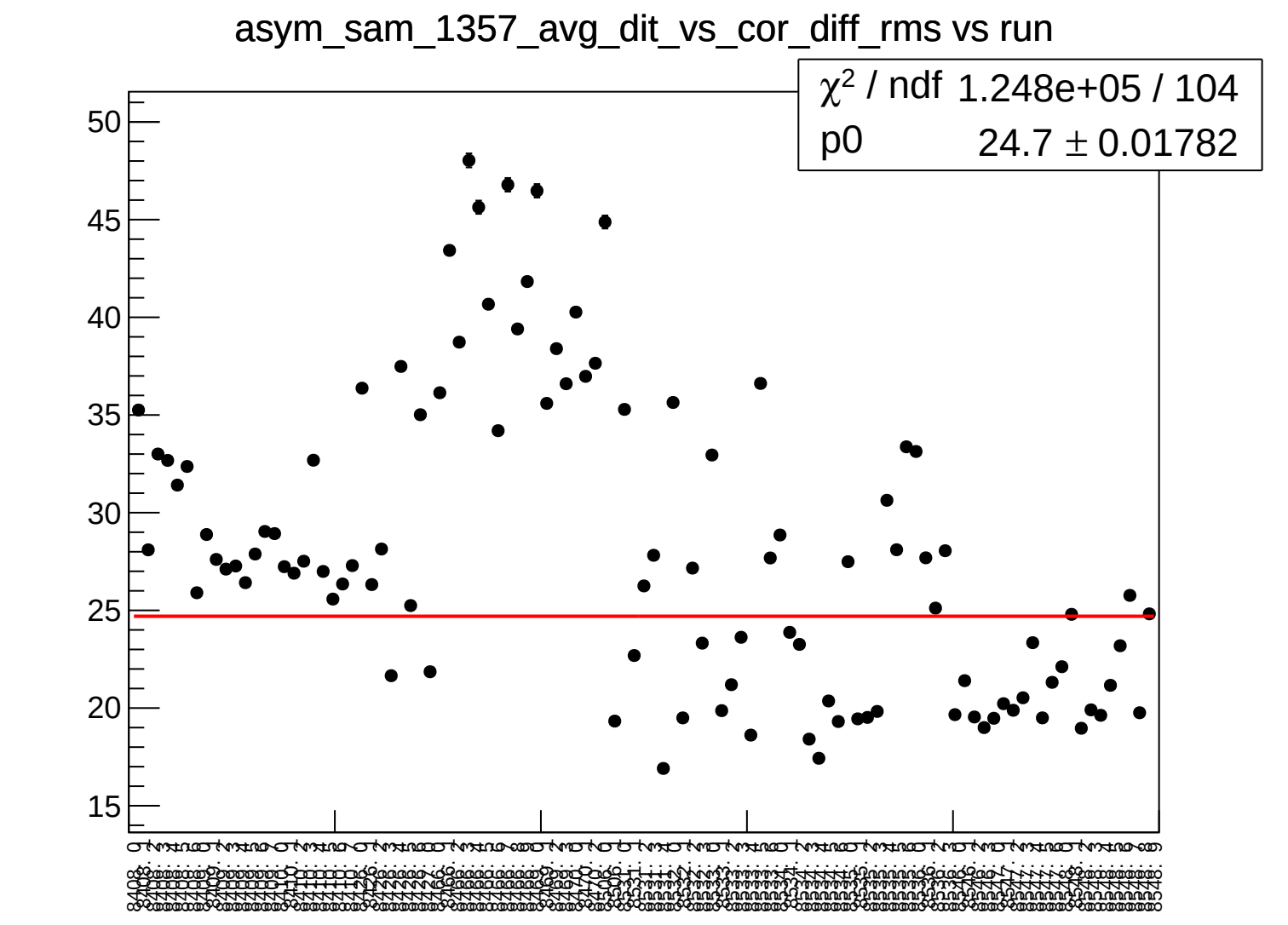

asym_sam_1357_avg_rms vs run
χ² / ndf 2.114e+04 / 104
p0 841.3 ± 0.5912
1150
1100
1050
1000
950
900
850
800
750
700

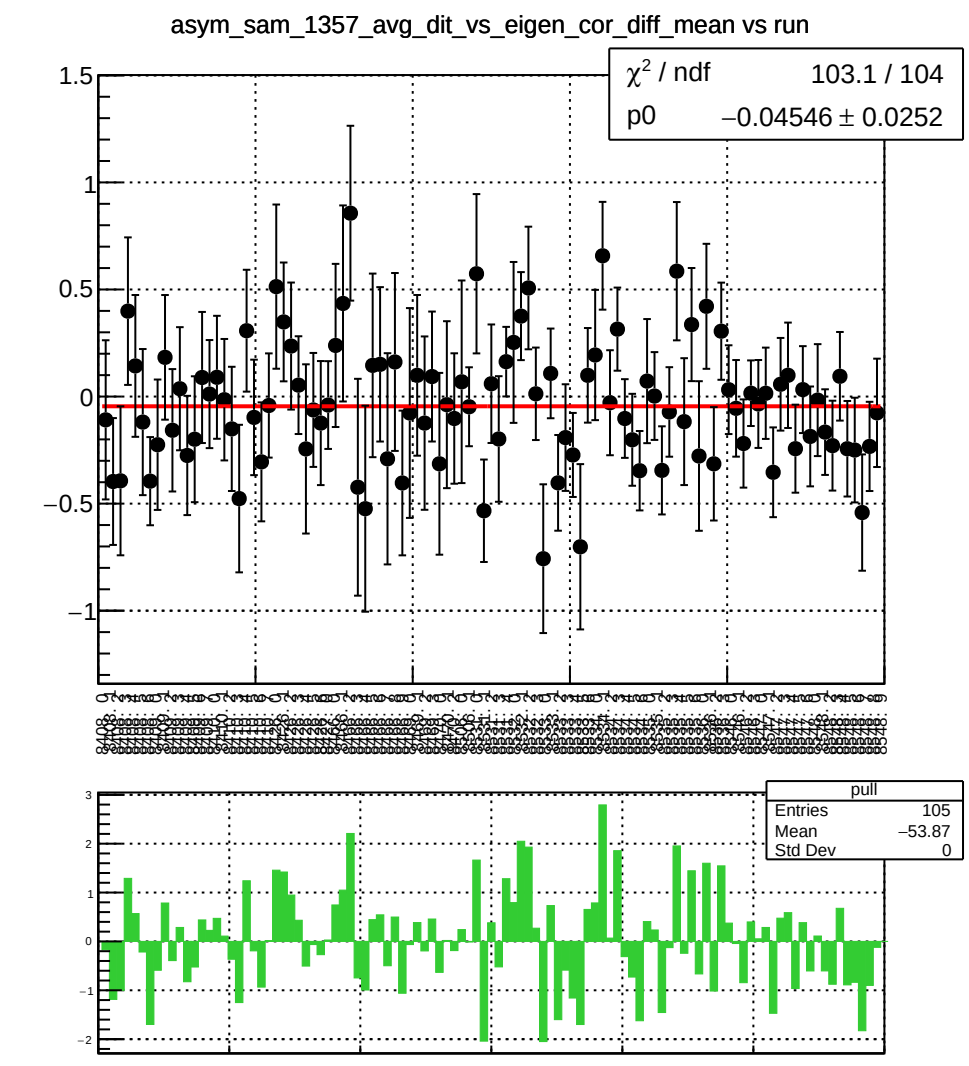

asym_sam_1357_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 104 / 104
p0 −3.179e−14 ± 7.68e−14
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
pull
Entries 105
Mean 41.76
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.03546
Std Dev 0.9947
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

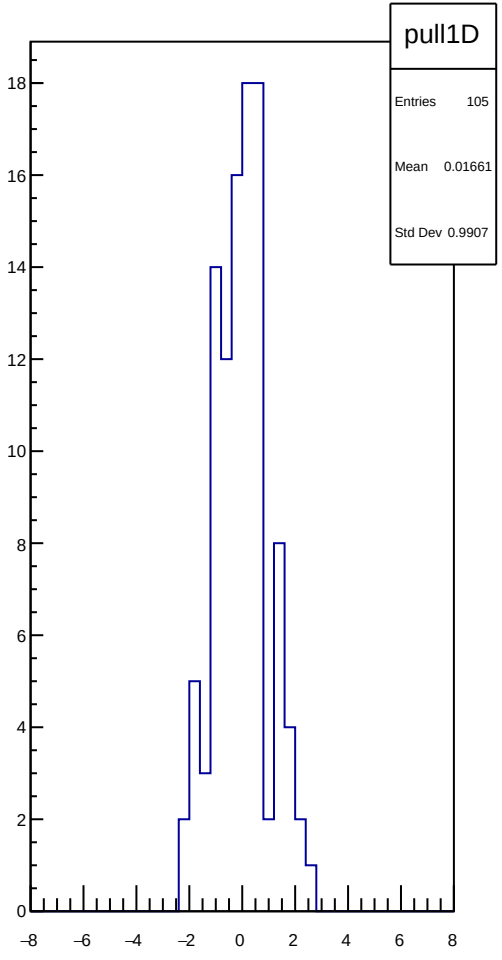

asym_sam_1357_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.413e+06 / 104
p0 4.322e−11 ± 5.431e−14
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

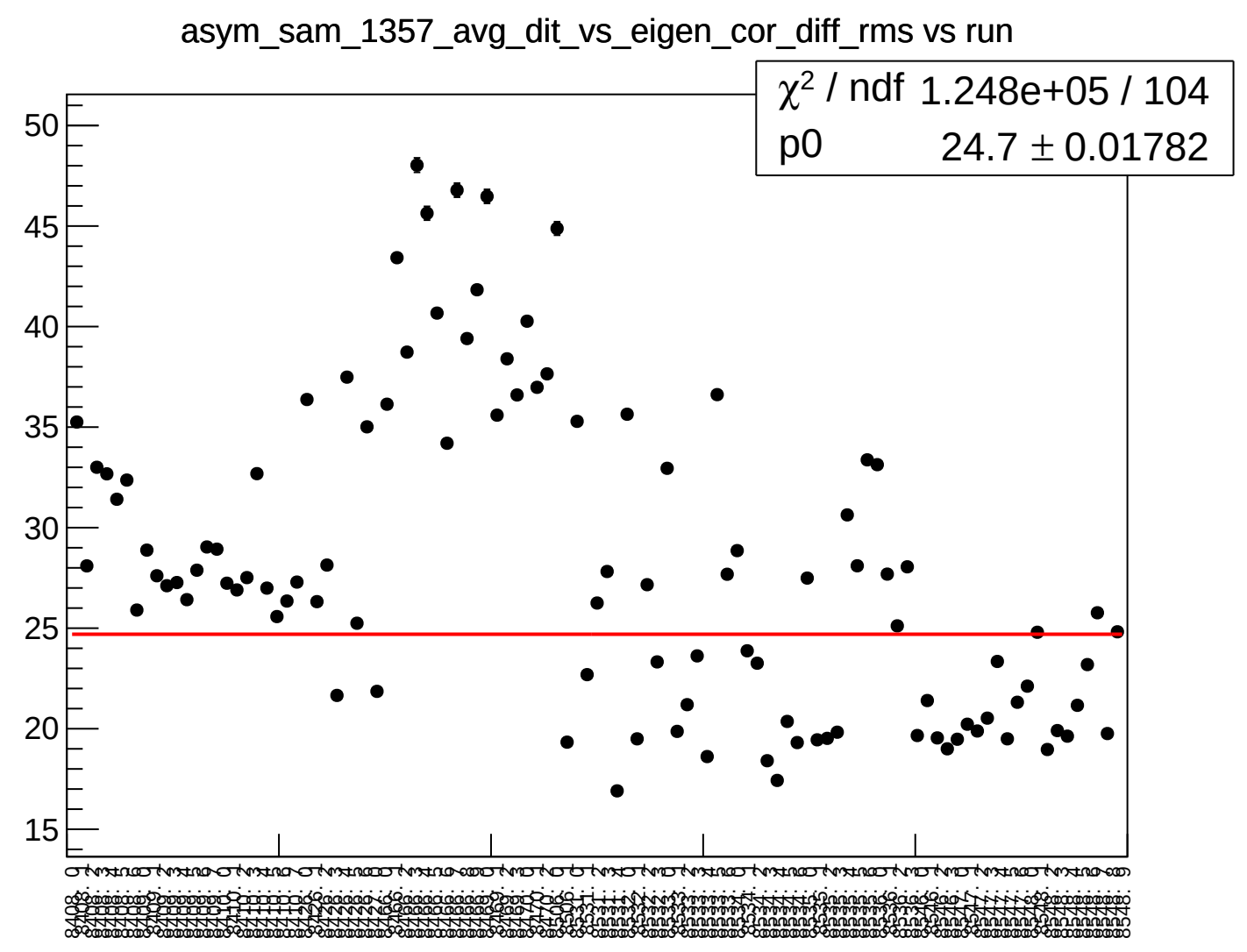

asym_sam_1357_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 103.1 / 104
p0 −0.04546 ± 0.0252
pull
Entries 105
Mean −53.87
Std Dev 0

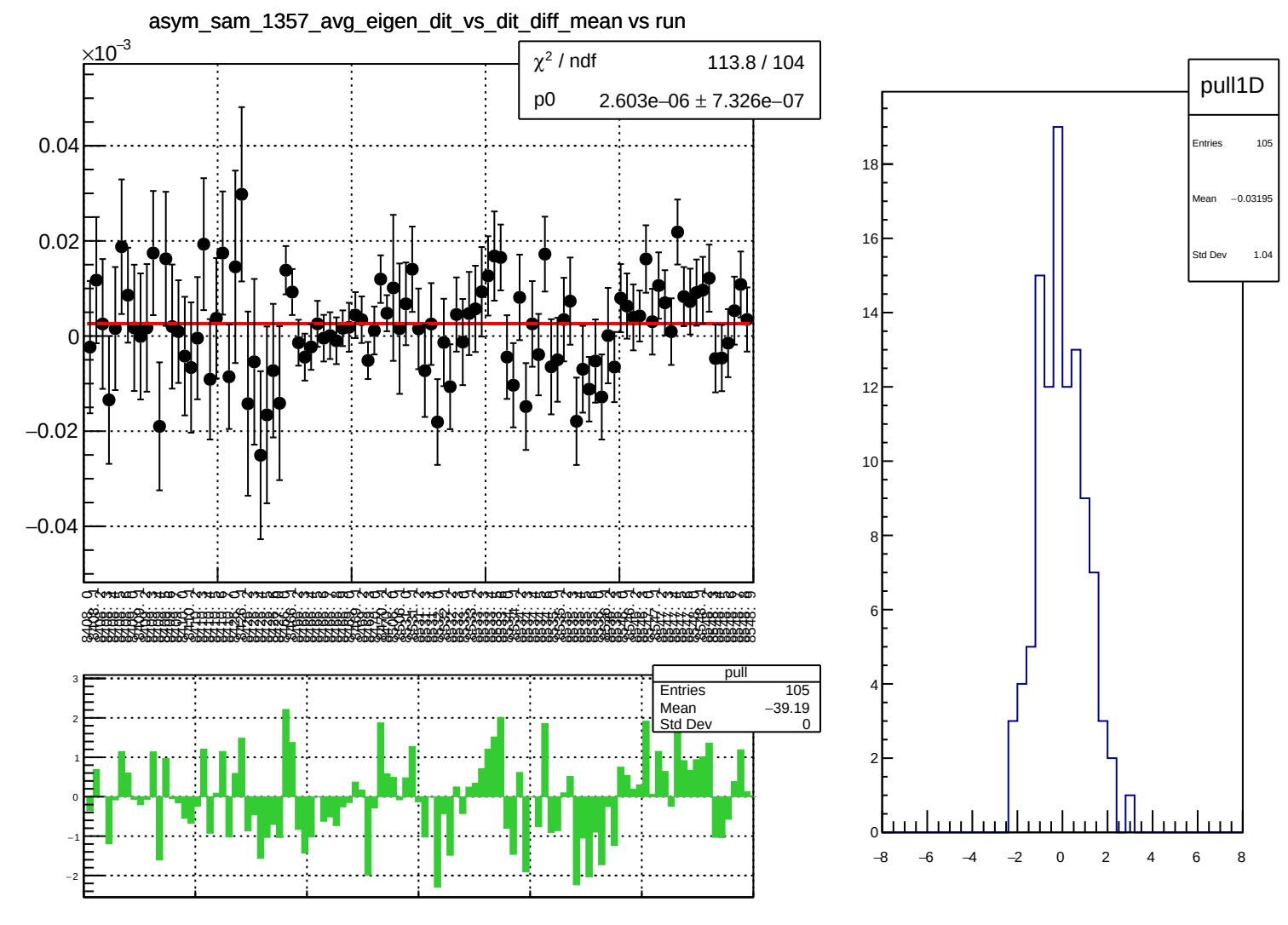

pull1D
Entries 105
Mean 0.01661
Std Dev 0.9907

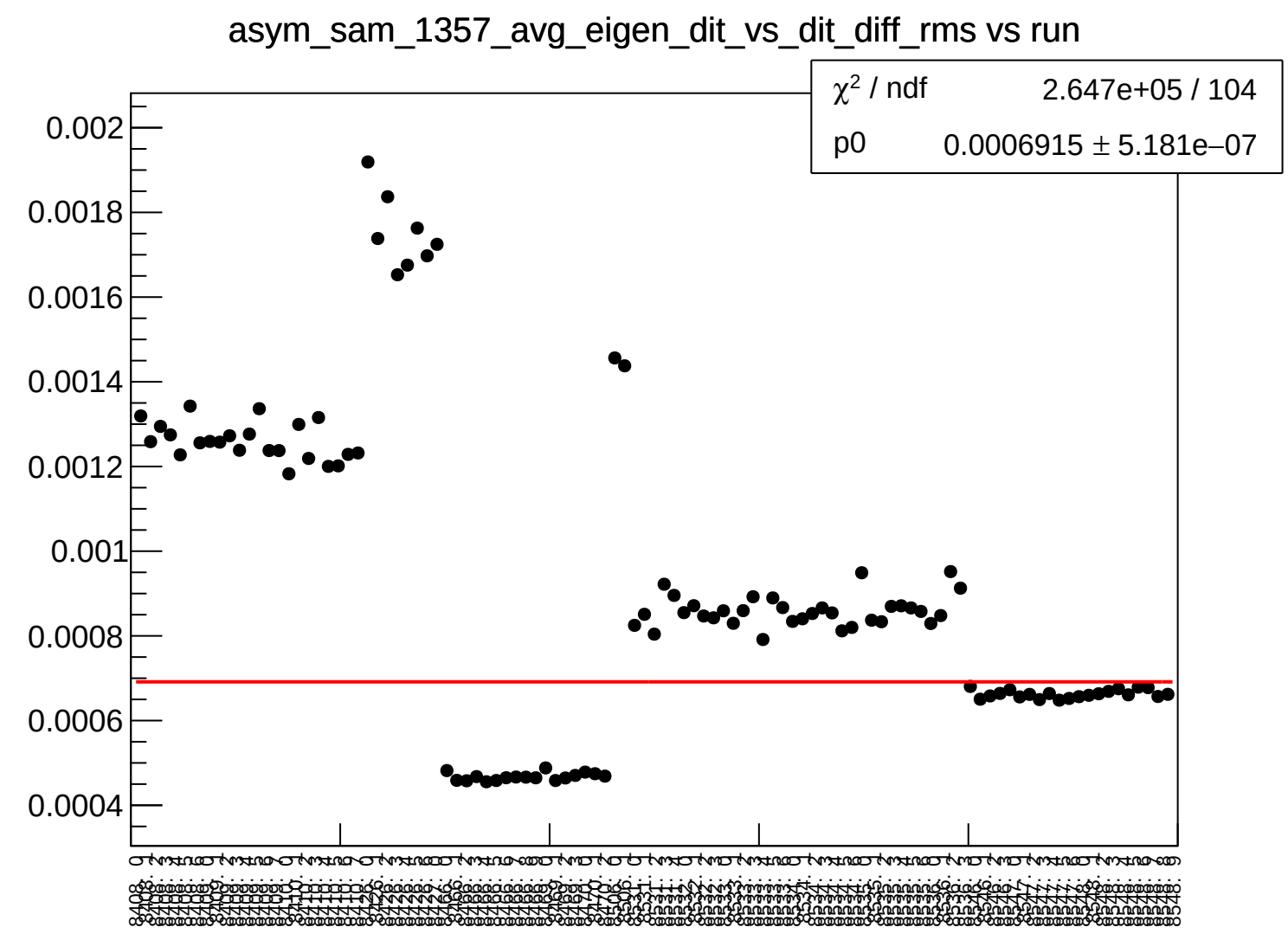

asym_sam_1357_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.248e+05 / 104
p0 24.7 ± 0.01782
50
45
40
35
30
25
20
15

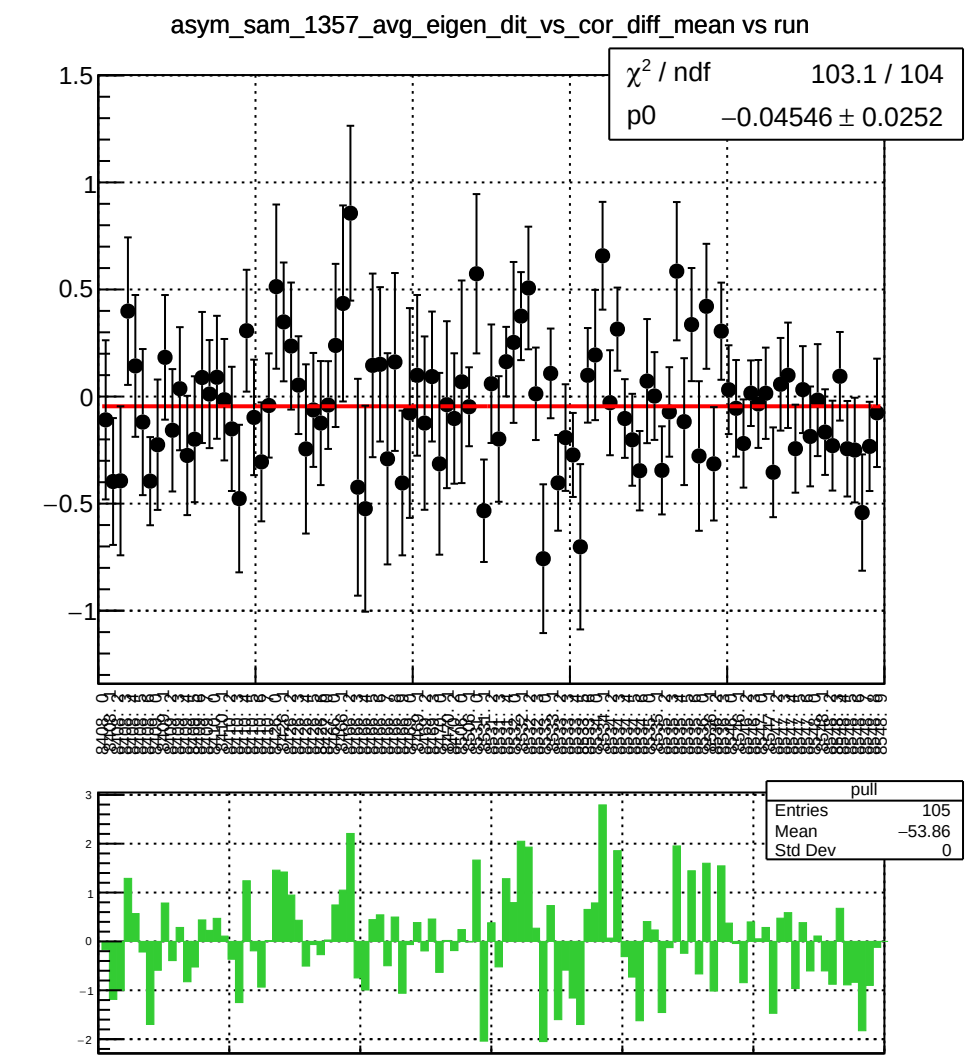

asym_sam_1357_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.1 / 104
p0 −0.04546 ± 0.0252
pull
Entries 105
Mean −53.87
Std Dev 0

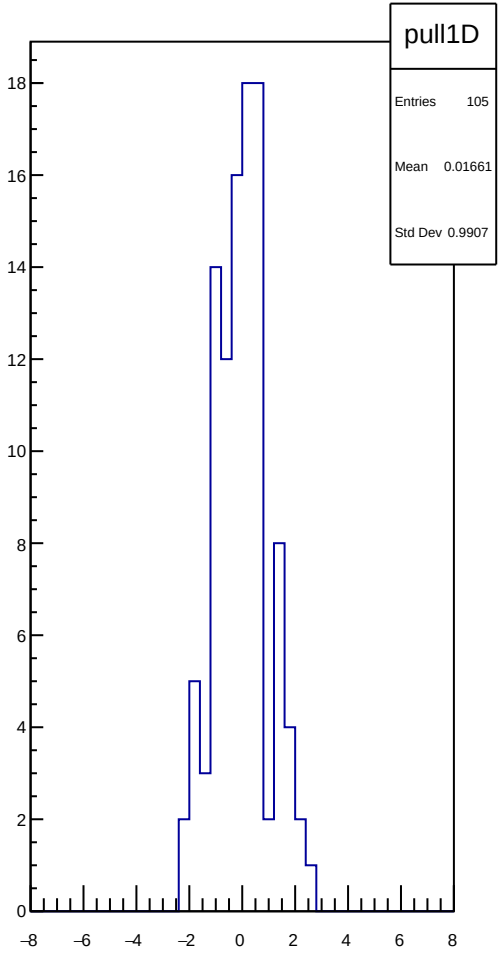

pull1D
Entries 105
Mean 0.01661
Std Dev 0.9907

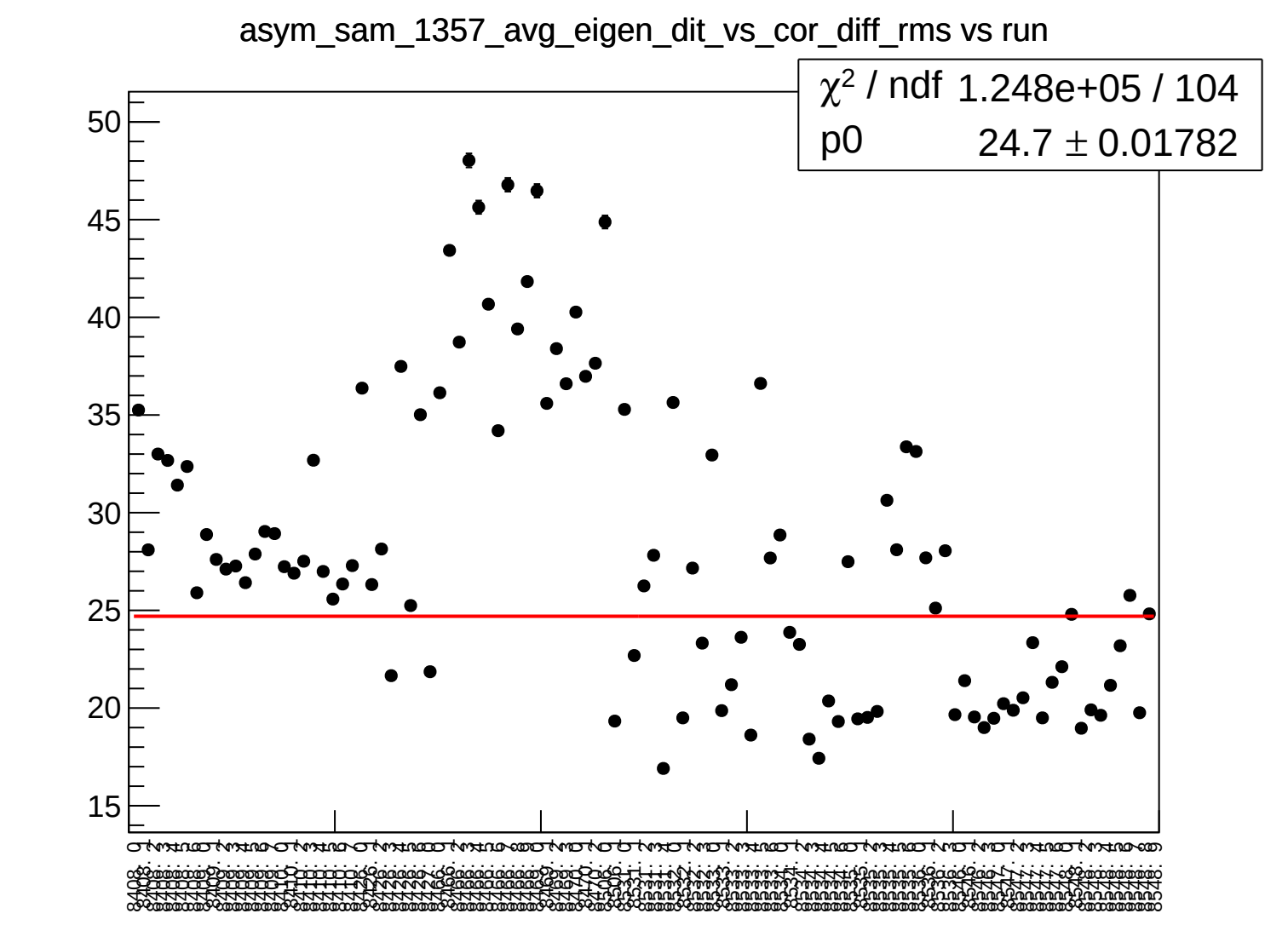

asym_sam_1357_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.248e+05 / 104
p0 24.7 ± 0.01782
50
45
40
35
30
25
20
15

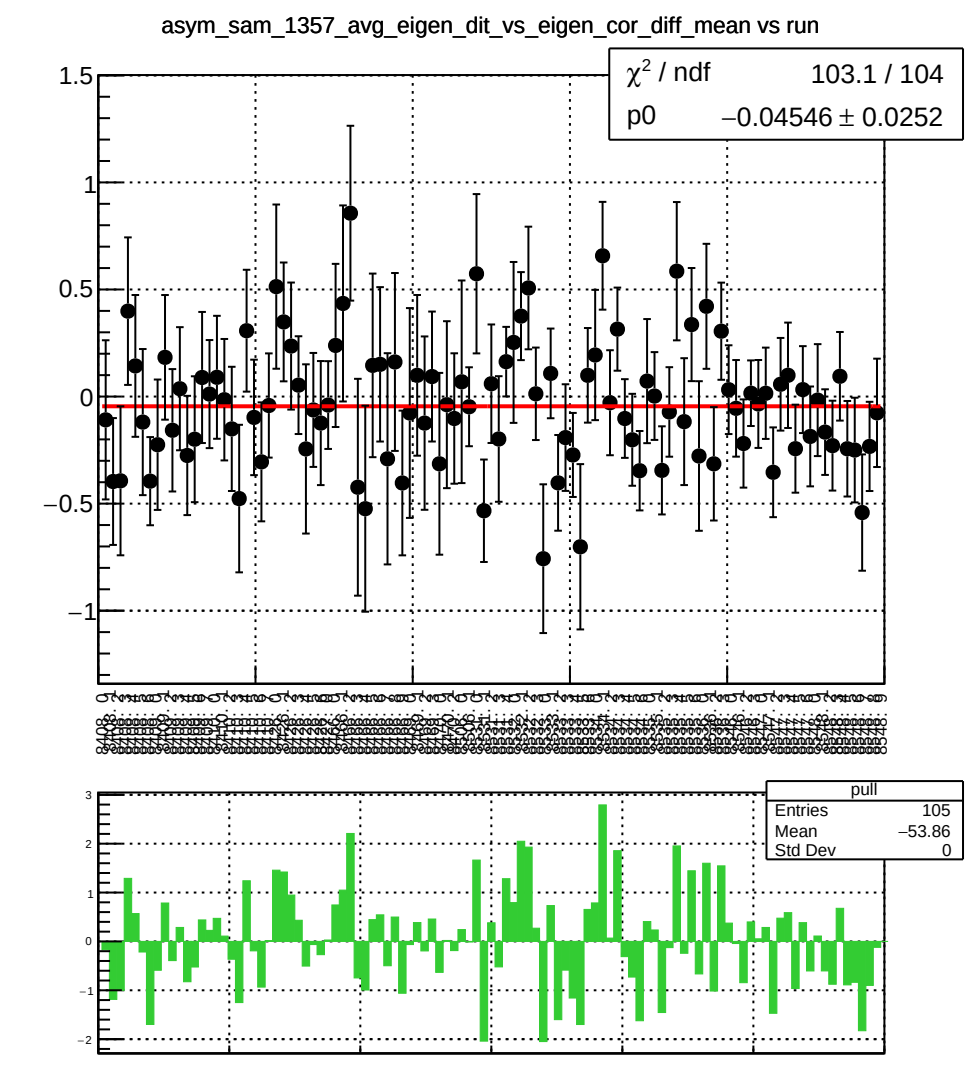

asym_sam_1357_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 113.8 / 104
p0 2.603e−06 ± 7.326e−07
0.04
0.02
0
−0.02
−0.04
pull
Entries 105
Mean −39.19
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.03195
Std Dev 1.04
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

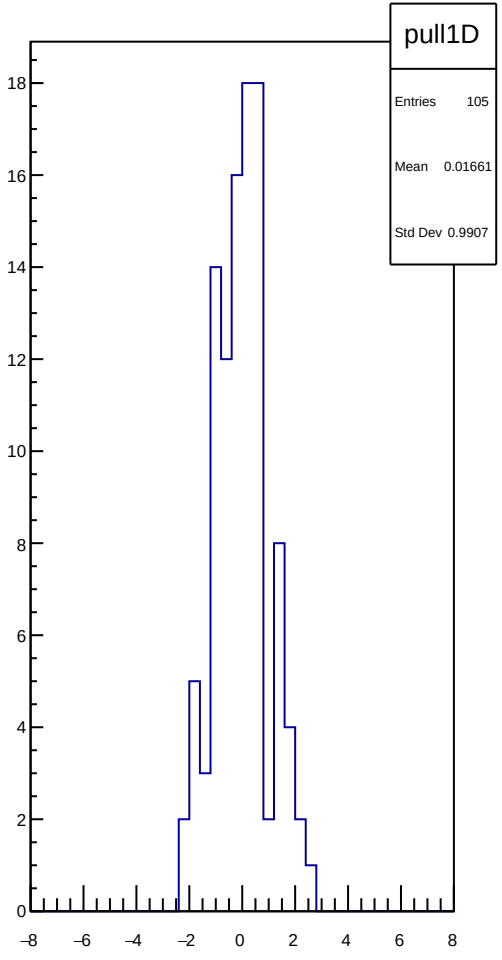

asym_sam_1357_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.647e+05 / 104
p0 0.0006915 ± 5.181e−07
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004

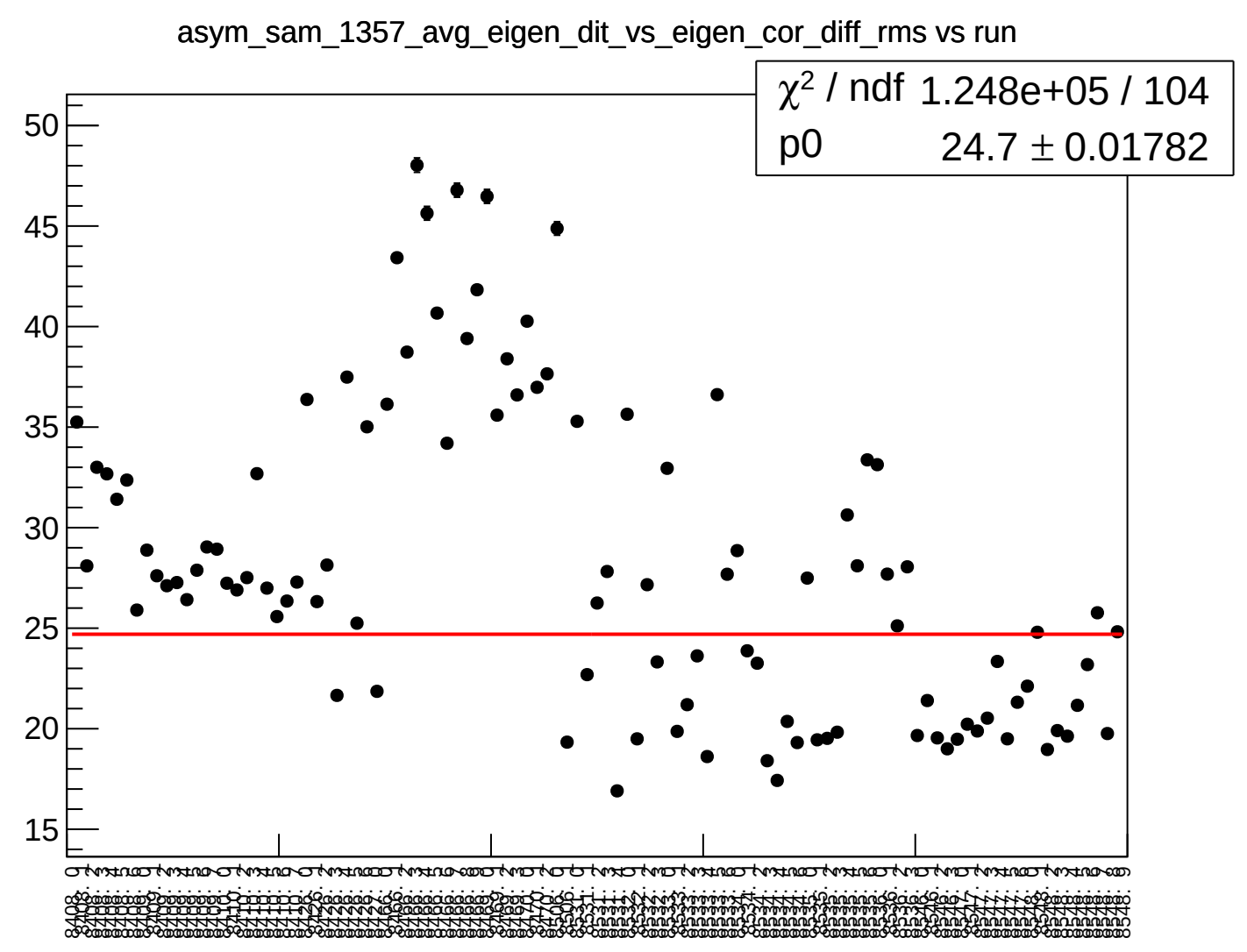

asym_sam_1357_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 103.1 / 104
p0 −0.04546 ± 0.0252
pull
Entries 105
Mean −53.86
Std Dev 0

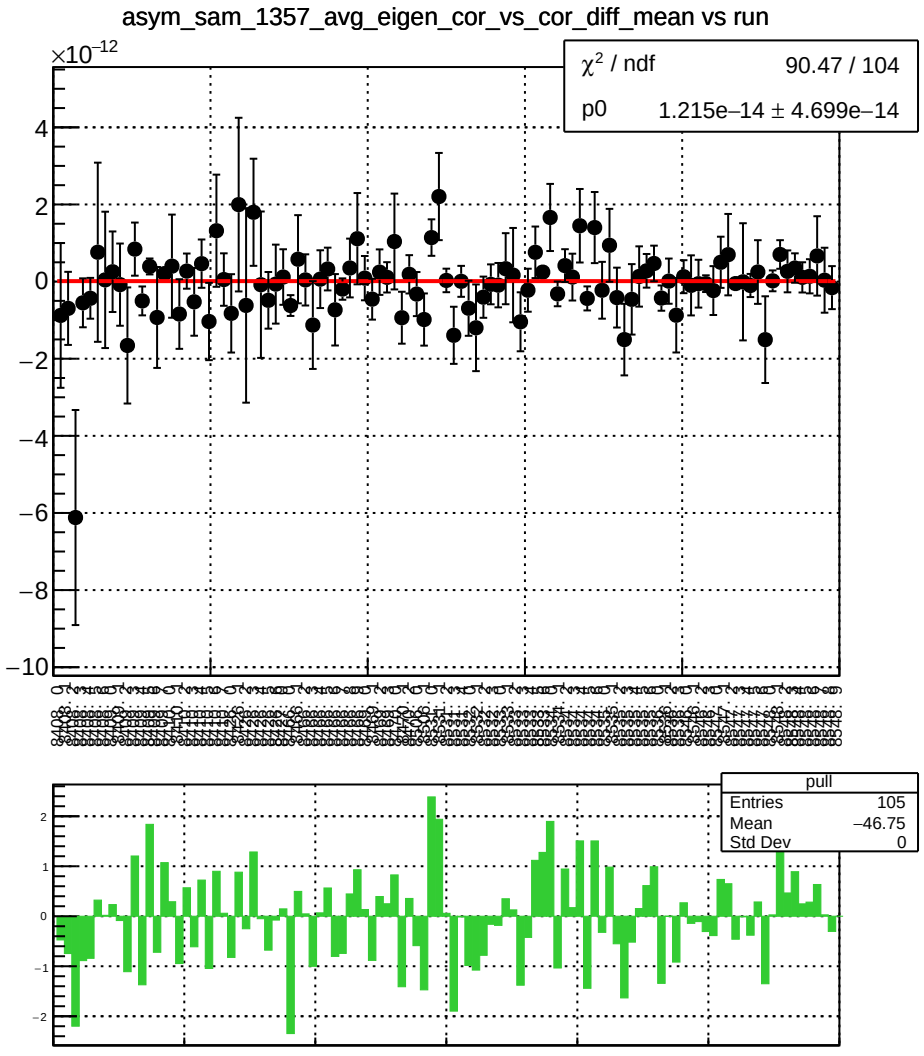

pull1D
Entries 105
Mean 0.01661
Std Dev 0.9907

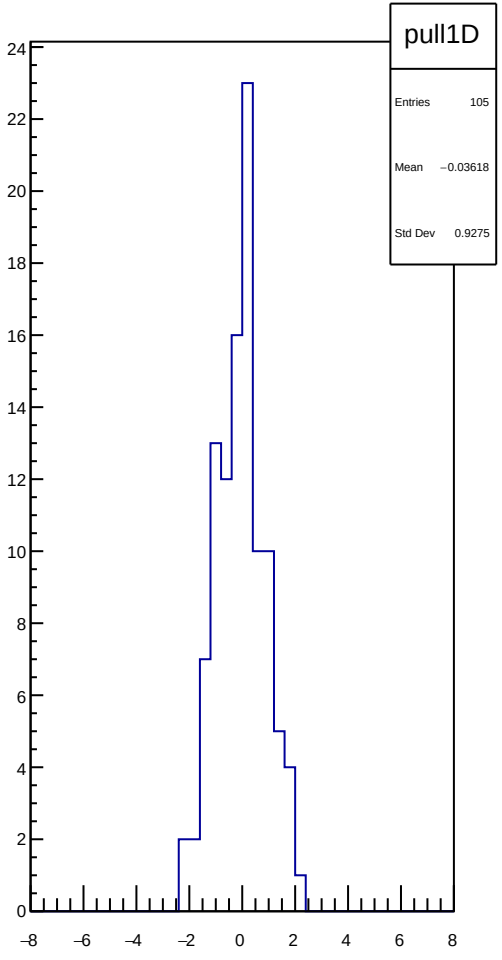

asym_sam_1357_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.248e+05 / 104
p0 24.7 ± 0.01782
50
45
40
35
30
25
20
15

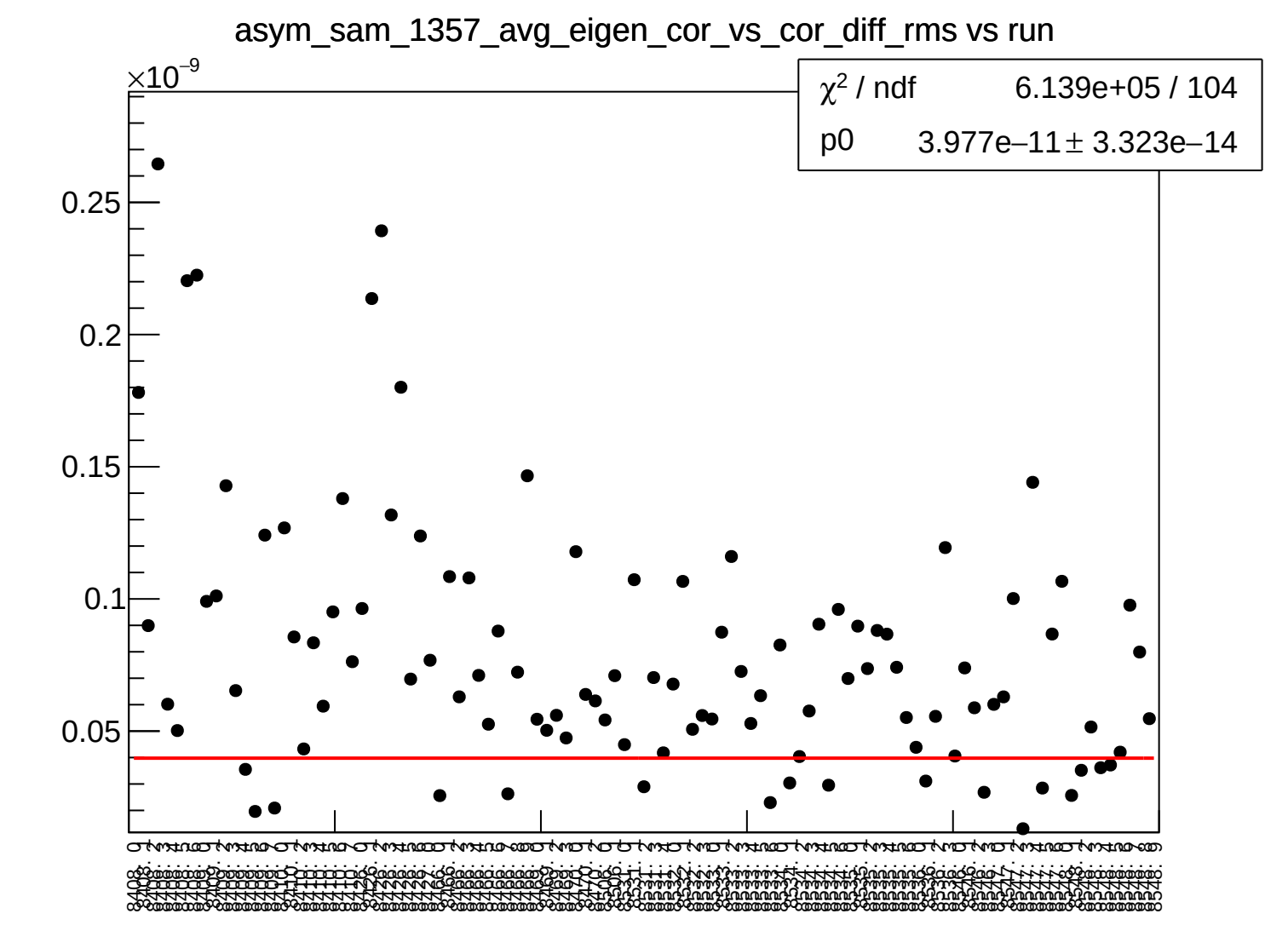

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 103.1 / 104
p0 −0.04546 ± 0.0252
pull
Entries 105
Mean −53.86
Std Dev 0

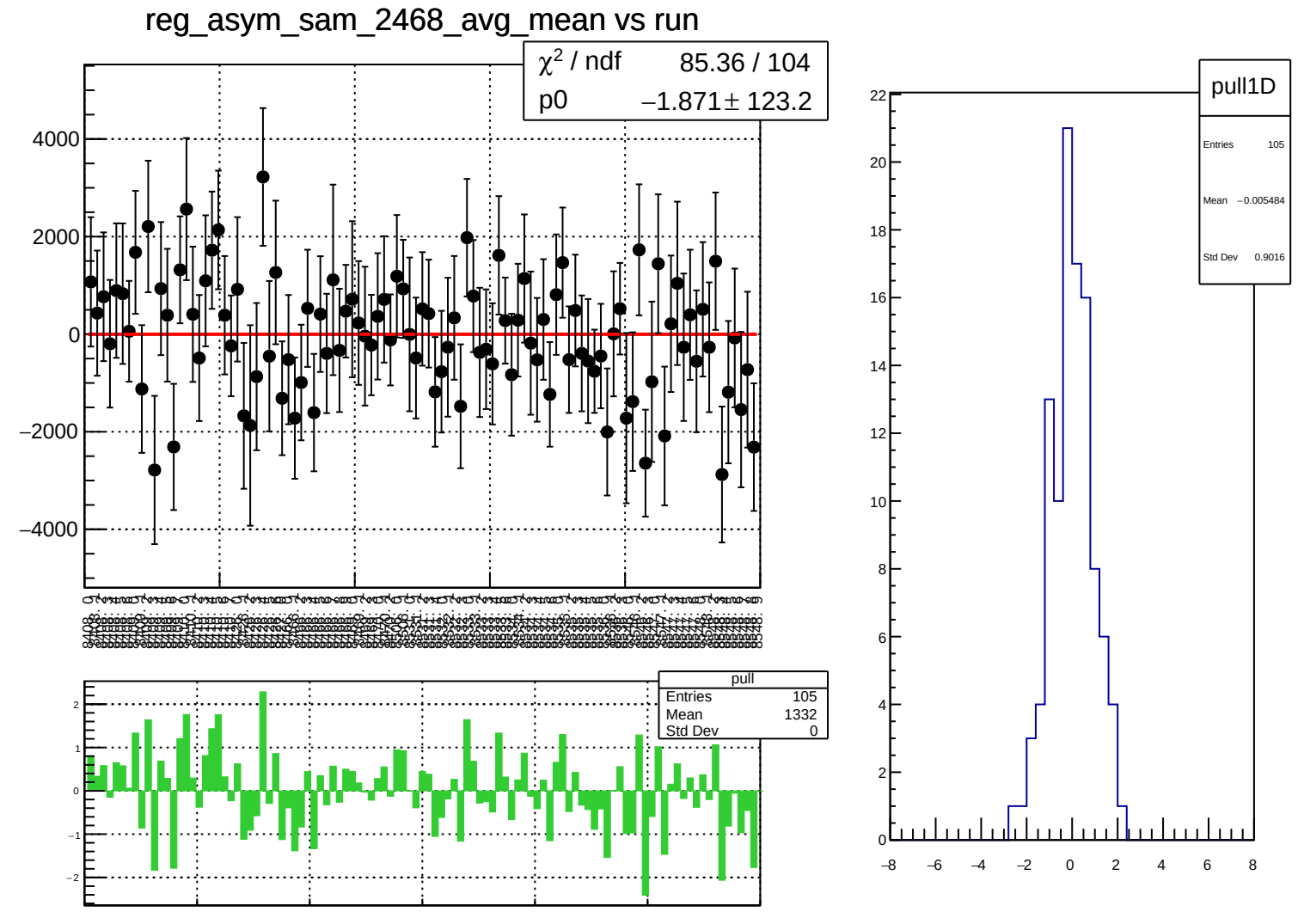

pull1D
Entries 105
Mean 0.01661
Std Dev 0.9907

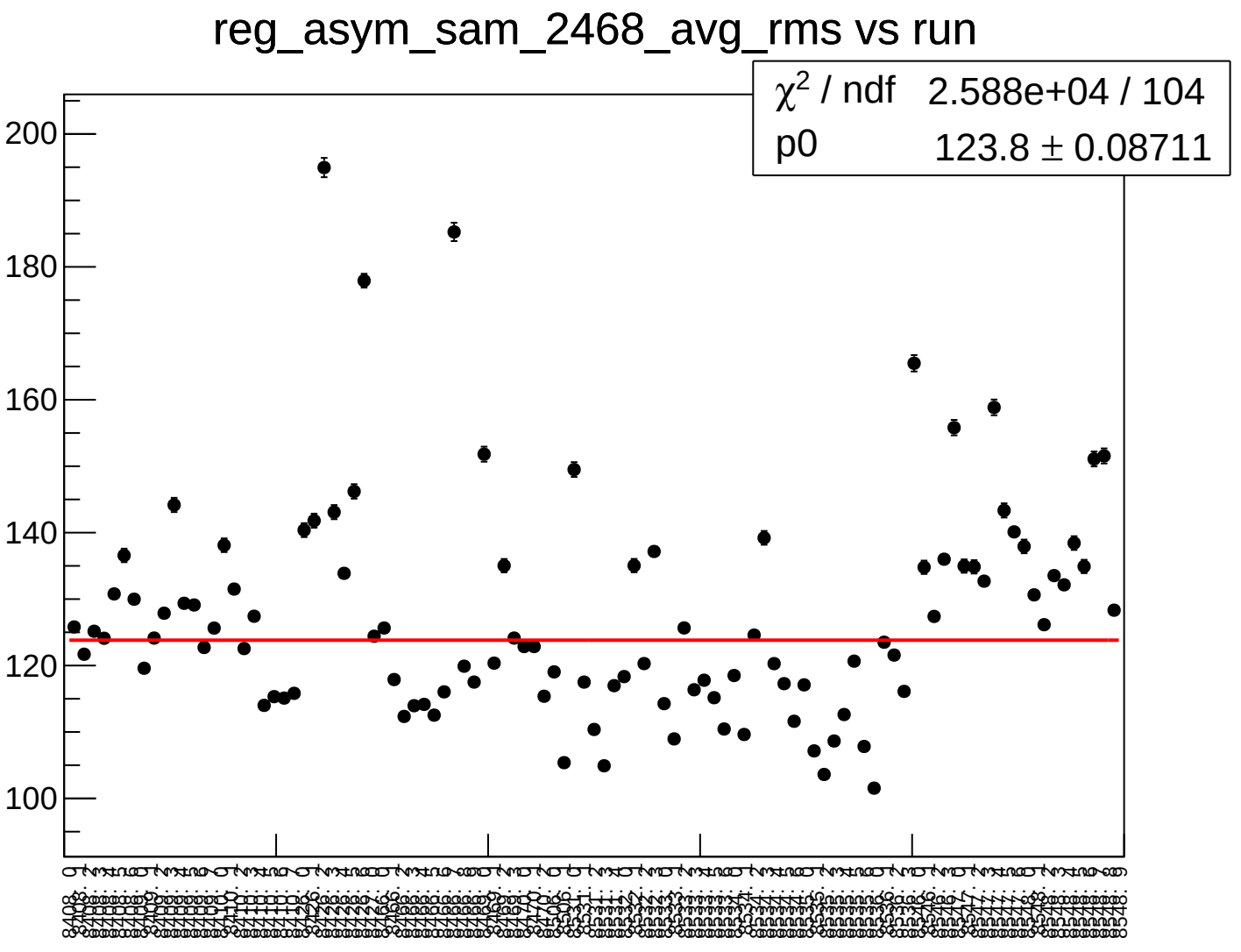

asym_sam_1357_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.248e+05 / 104
p0 24.7 ± 0.01782
50
45
40
35
30
25
20
15

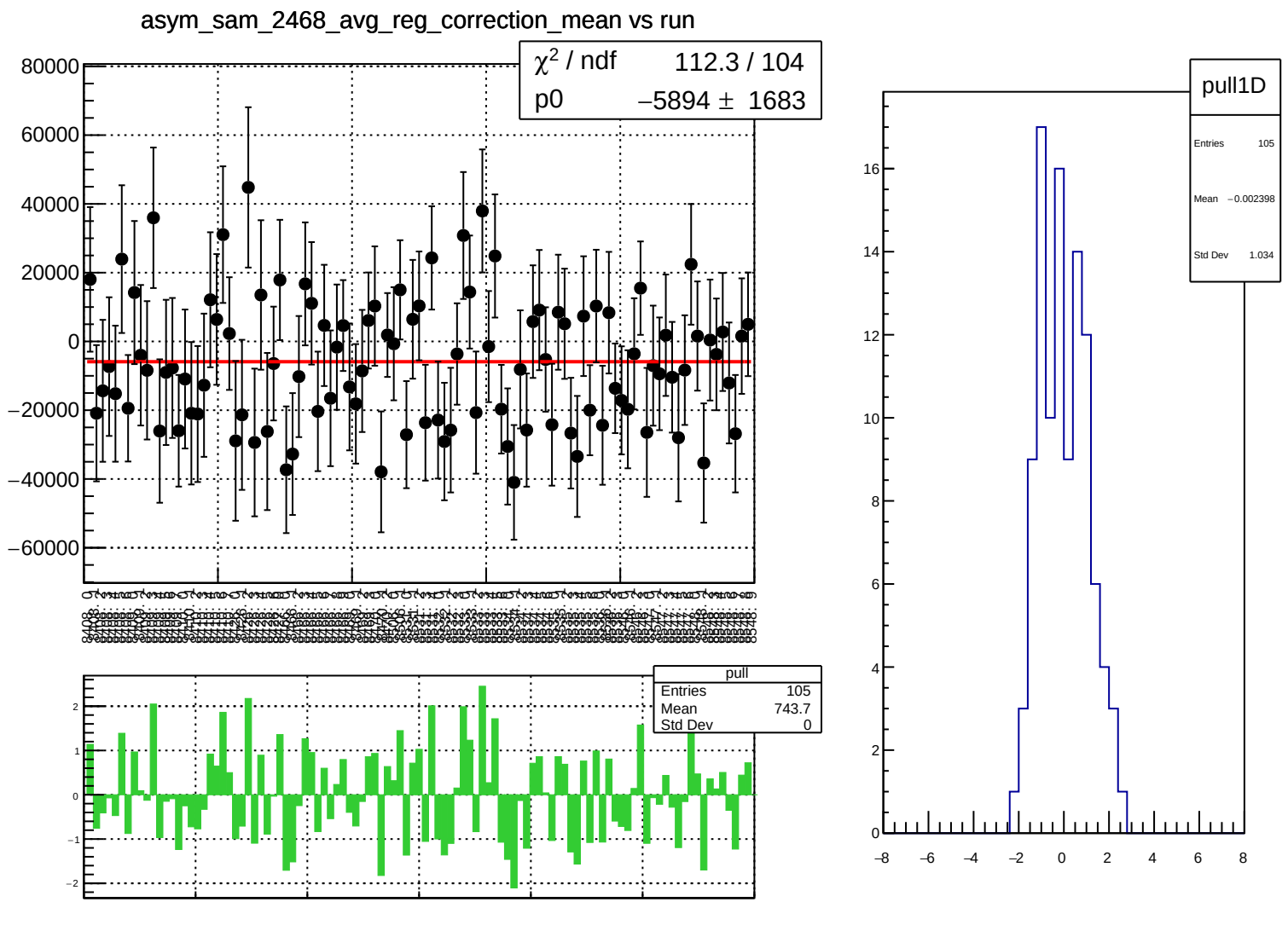

asym_sam_1357_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 90.47 / 104
p0 1.215e−14 ± 4.699e−14
pull
Entries 105
Mean −46.75
Std Dev 0

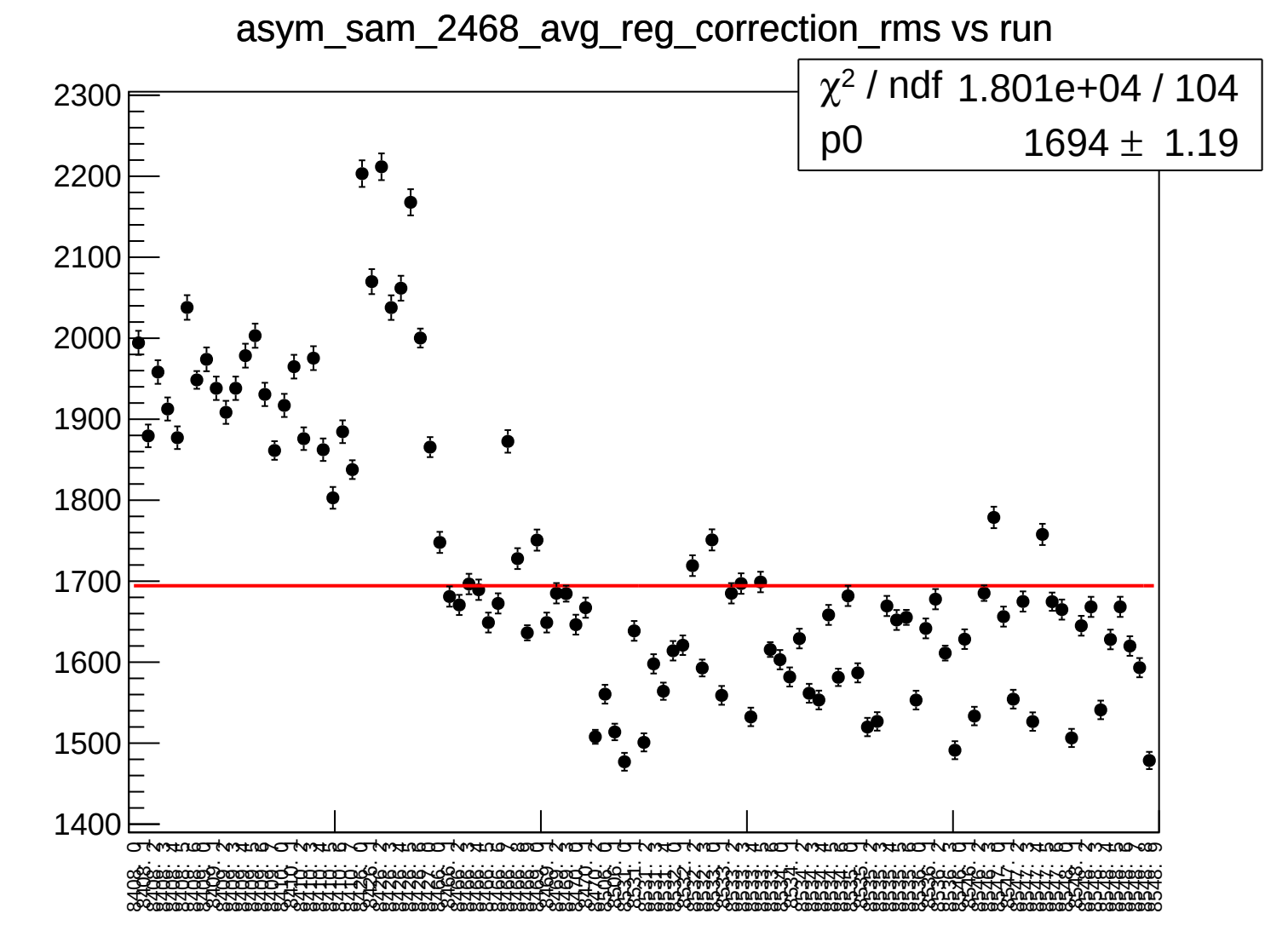

pull1D
Entries 105
Mean −0.03618
Std Dev 0.9275

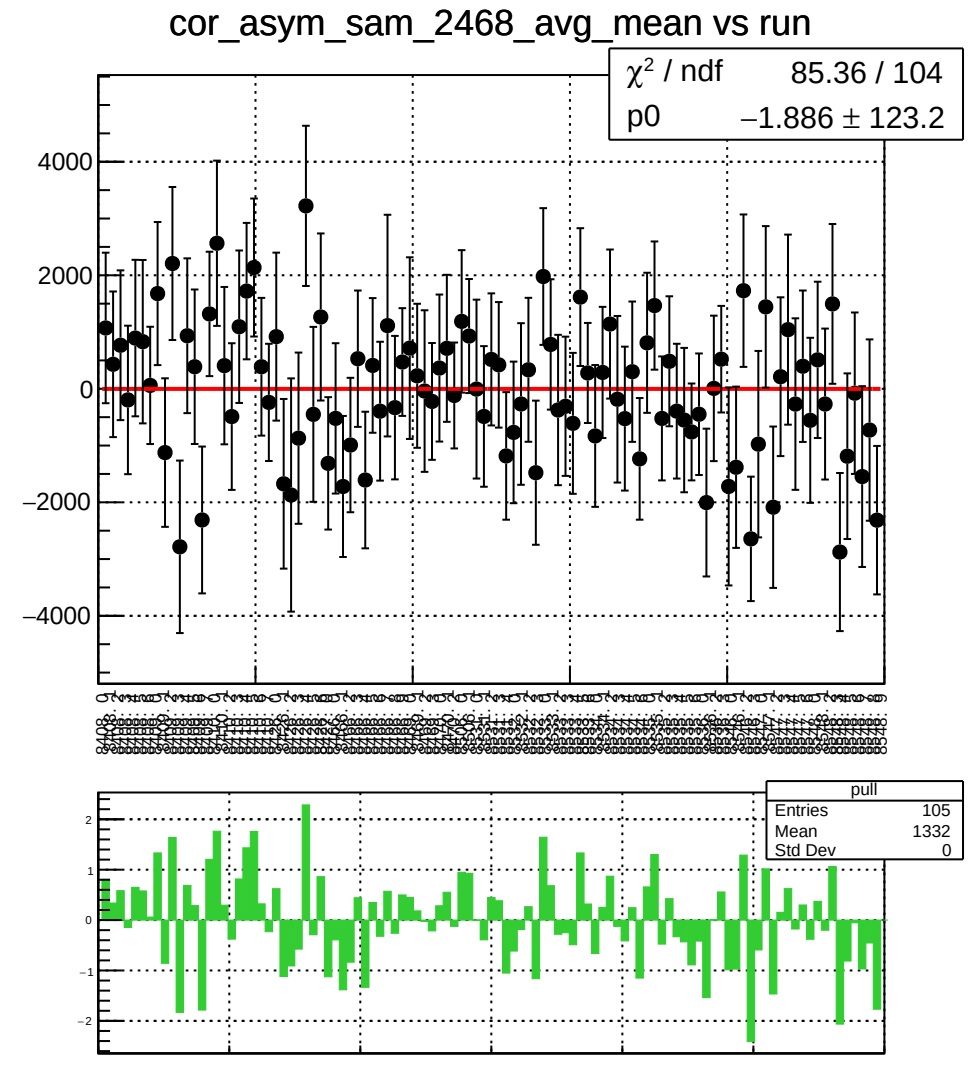

asym_sam_1357_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.139e+05 / 104
p0 3.977e−11 ± 3.323e−14
0.25
0.2
0.15
0.1
0.05

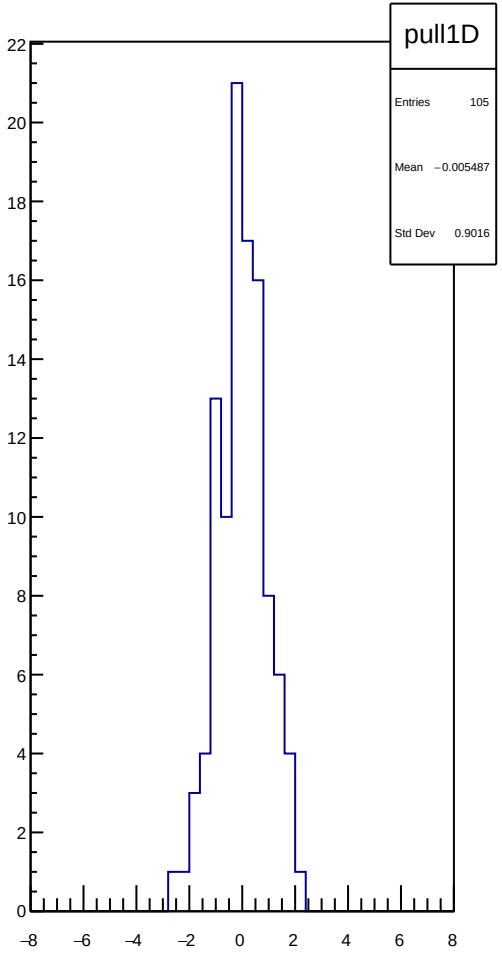

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 85.36 / 104
p0 −1.871± 123.2
4000
2000
0
−2000
−4000
pull
Entries 105
Mean 1332
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.005484
Std Dev 0.9016
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

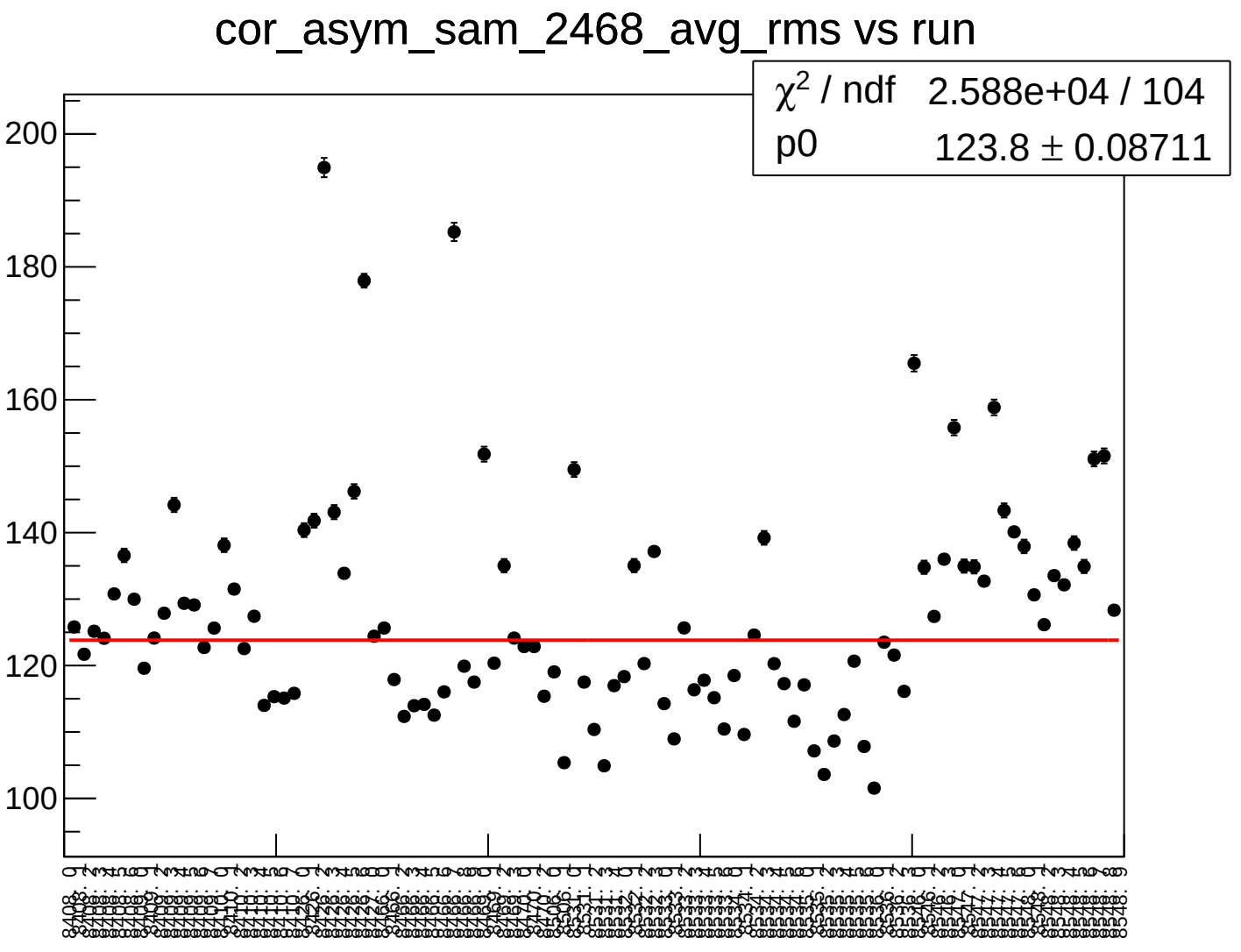

reg_asym_sam_2468_avg_rms vs run
χ^2 / ndf 2.588e+04 / 104
p0 123.8 ± 0.08711
200
180
160
140
120
100

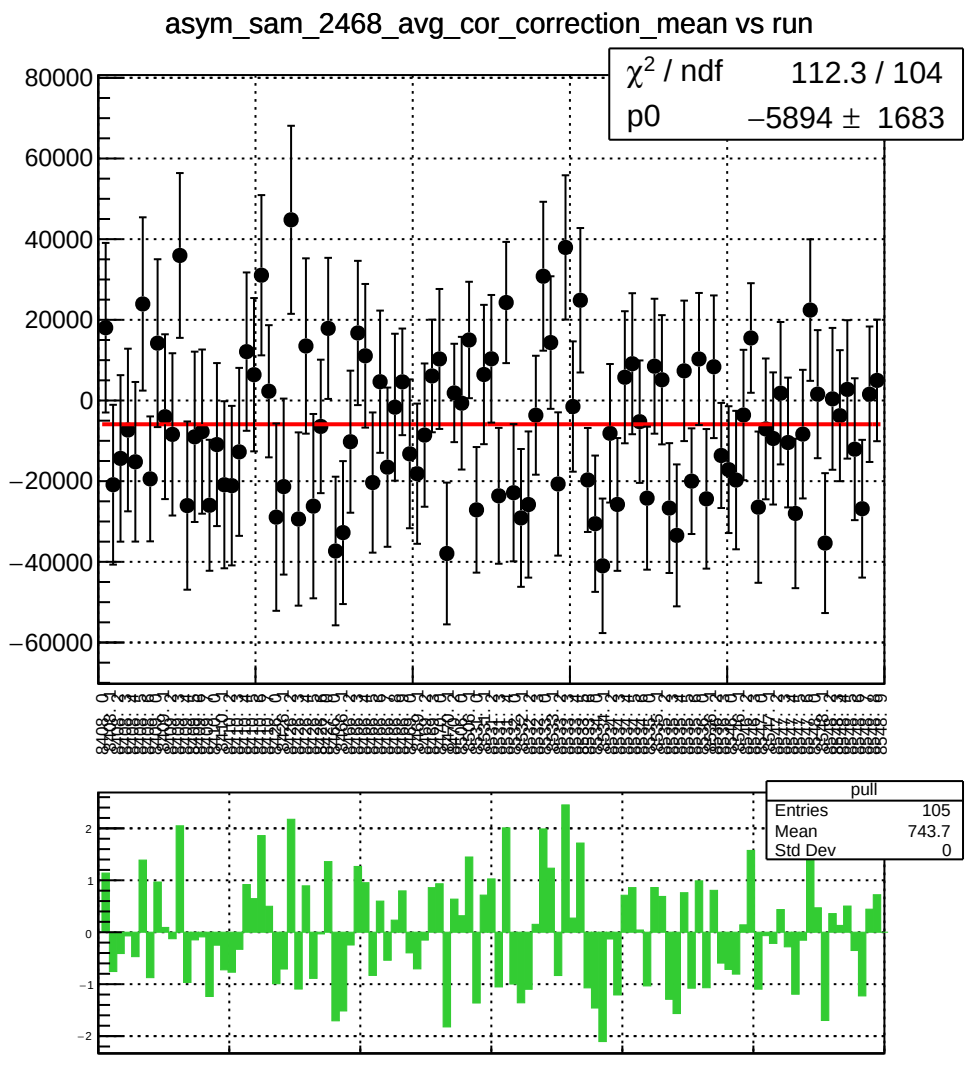

asym_sam_2468_avg_reg_correction_mean vs run
χ² / ndf 112.3 / 104
p0 −5894 ± 1683
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean 743.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.002398
Std Dev 1.034
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

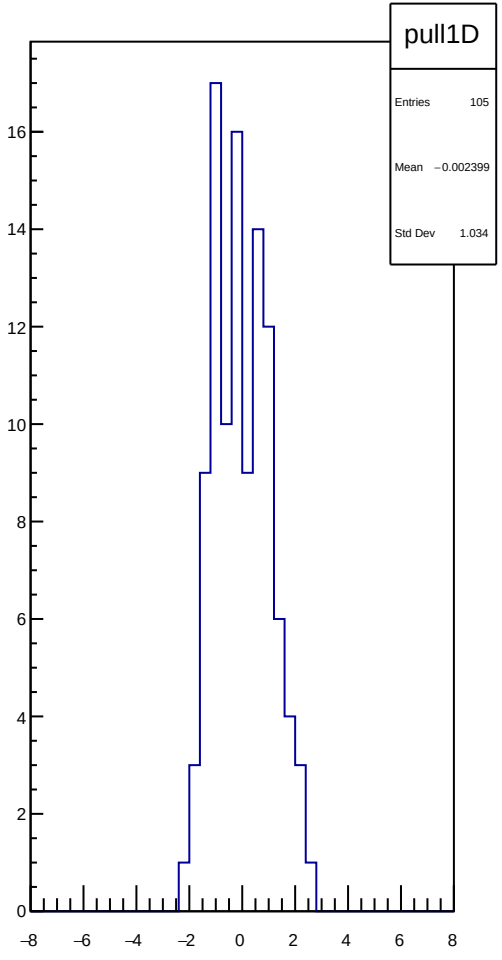

asym_sam_2468_avg_reg_correction_rms vs run
χ² / ndf 1.801e+04 / 104
p0 1694 ± 1.19
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400

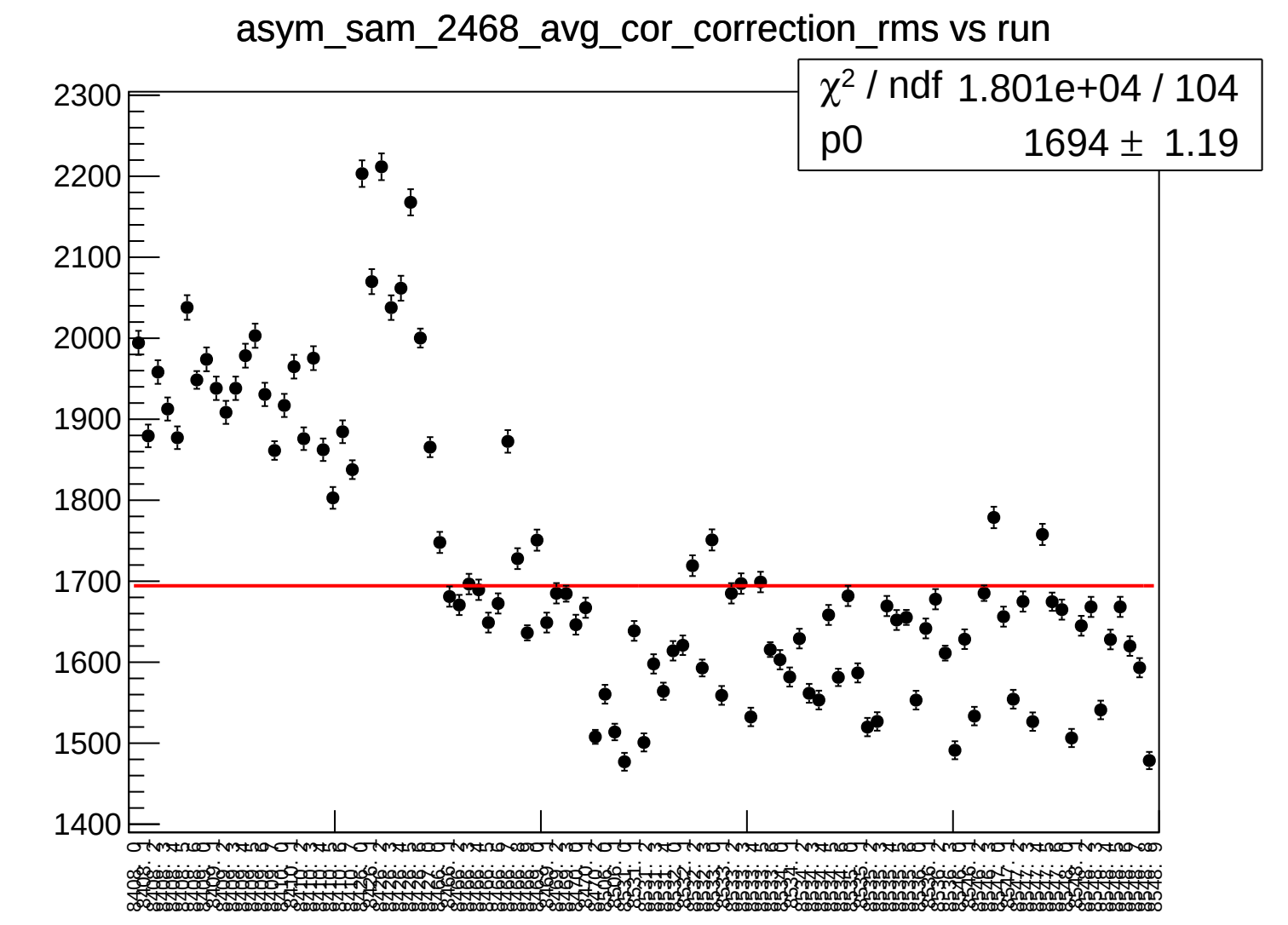

cor_asym_sam_2468_avg_mean vs run
χ² / ndf 85.36 / 104
p0 −1.886 ± 123.2
4000
2000
0
−2000
−4000
pull
Entries 105
Mean 1332
Std Dev 0
2
1
0
−1
−2

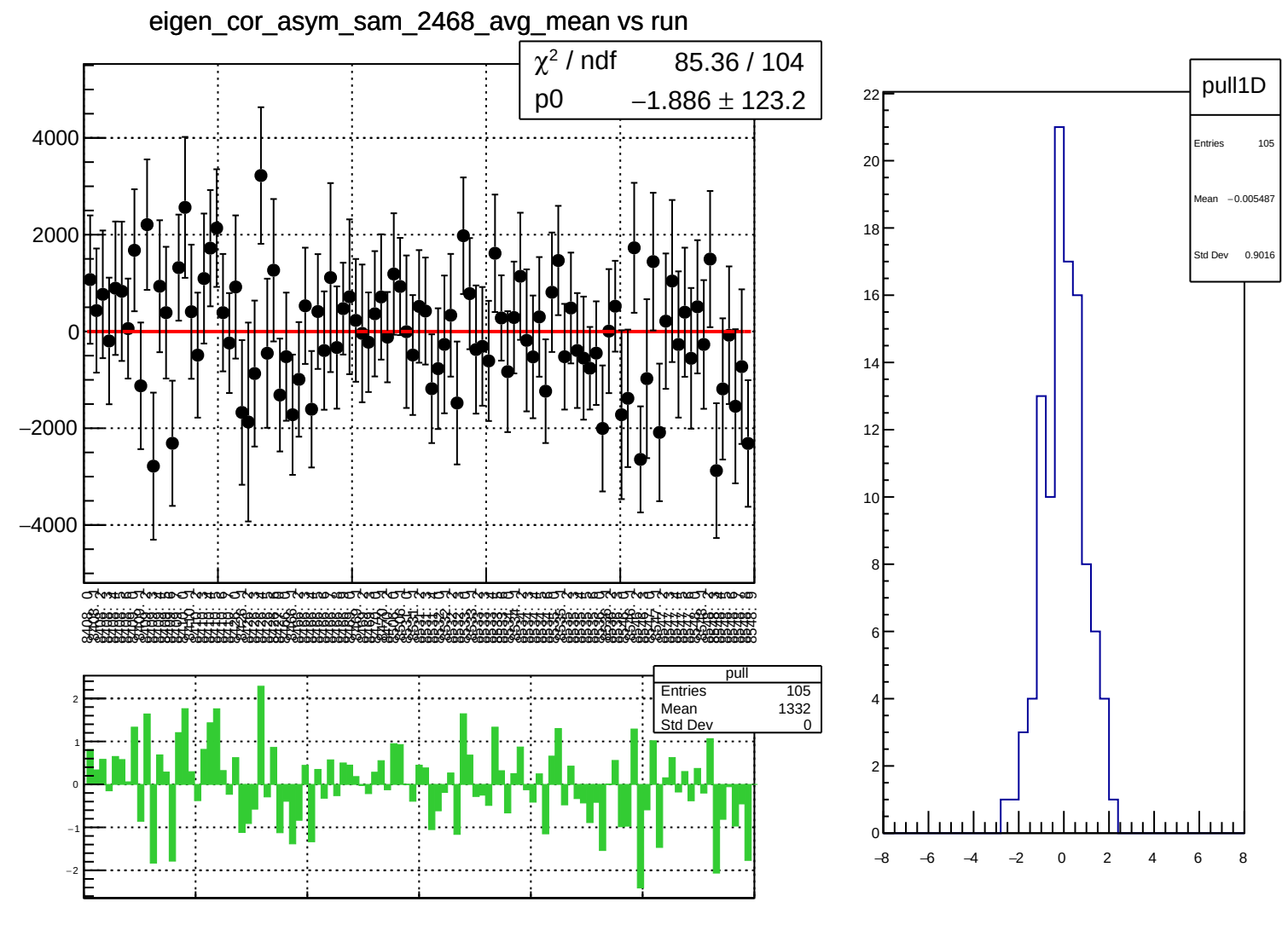

pull1D
Entries 105
Mean −0.005487
Std Dev 0.9016
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

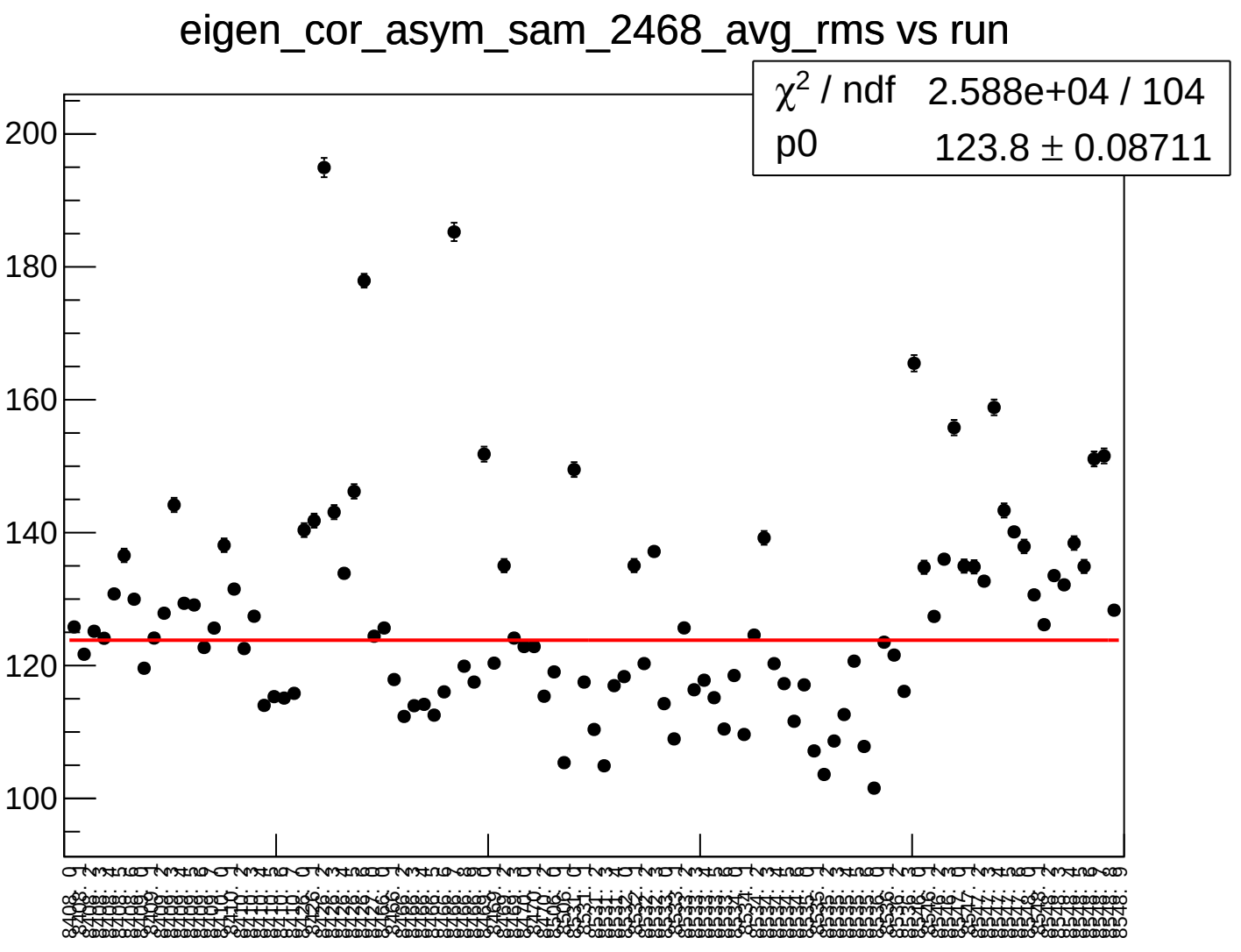

cor_asym_sam_2468_avg_rms vs run
χ^2 / ndf 2.588e+04 / 104
p0 123.8 ± 0.08711
200
180
160
140
120
100

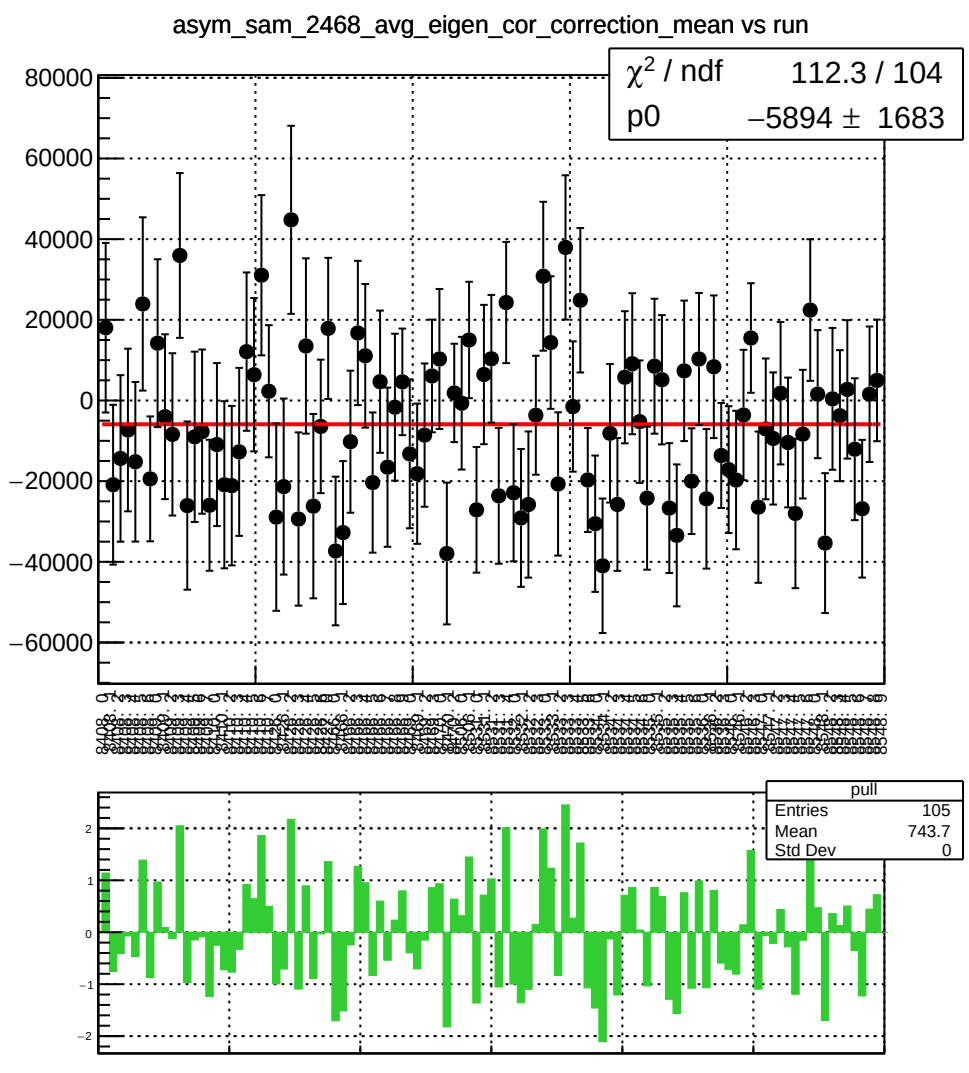

asym_sam_2468_avg_cor_correction_mean vs run
χ² / ndf 112.3 / 104
p0 −5894 ± 1683
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean 743.7
Std Dev 0
2
1
0
−1
−2

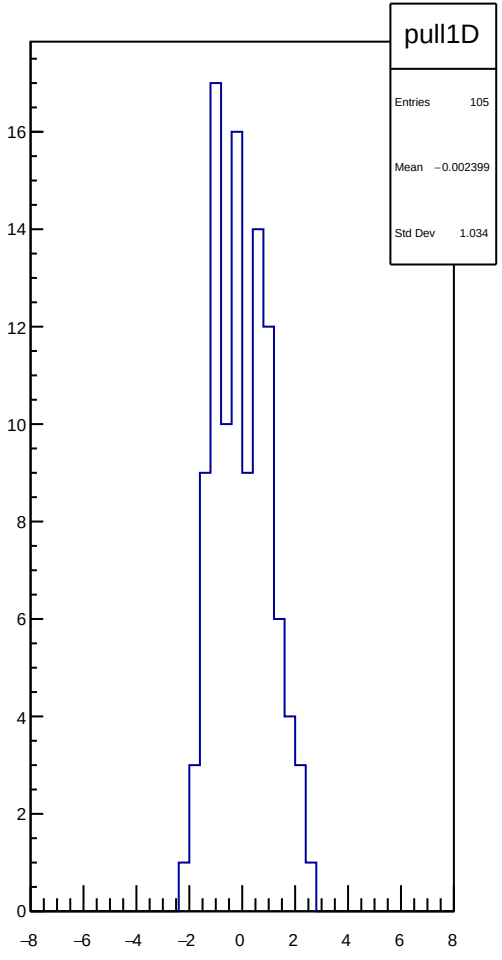

pull1D
Entries 105
Mean −0.002399
Std Dev 1.034
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

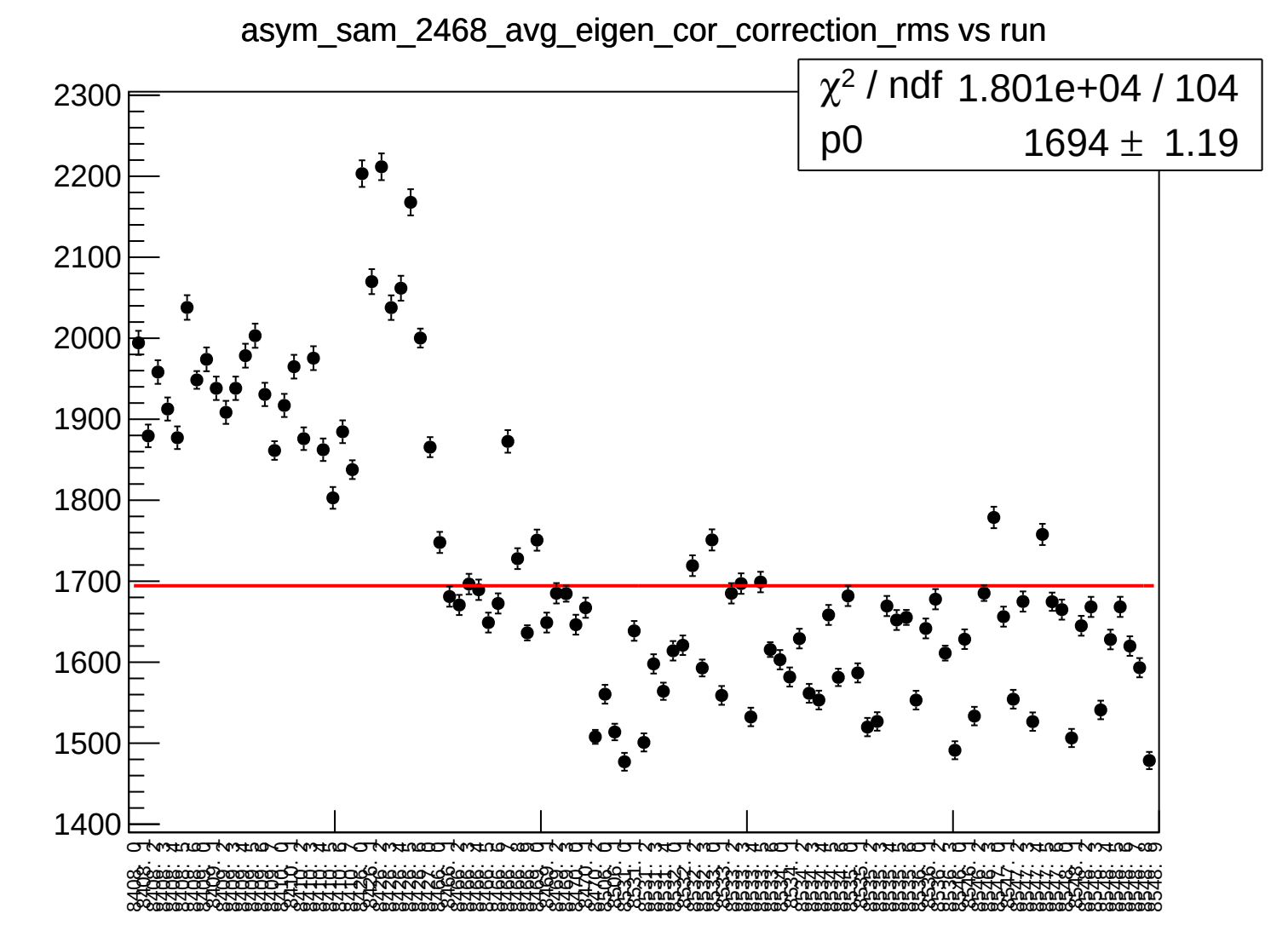

asym_sam_2468_avg_cor_correction_rms vs run
χ² / ndf 1.801e+04 / 104
p0 1694 ± 1.19
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400

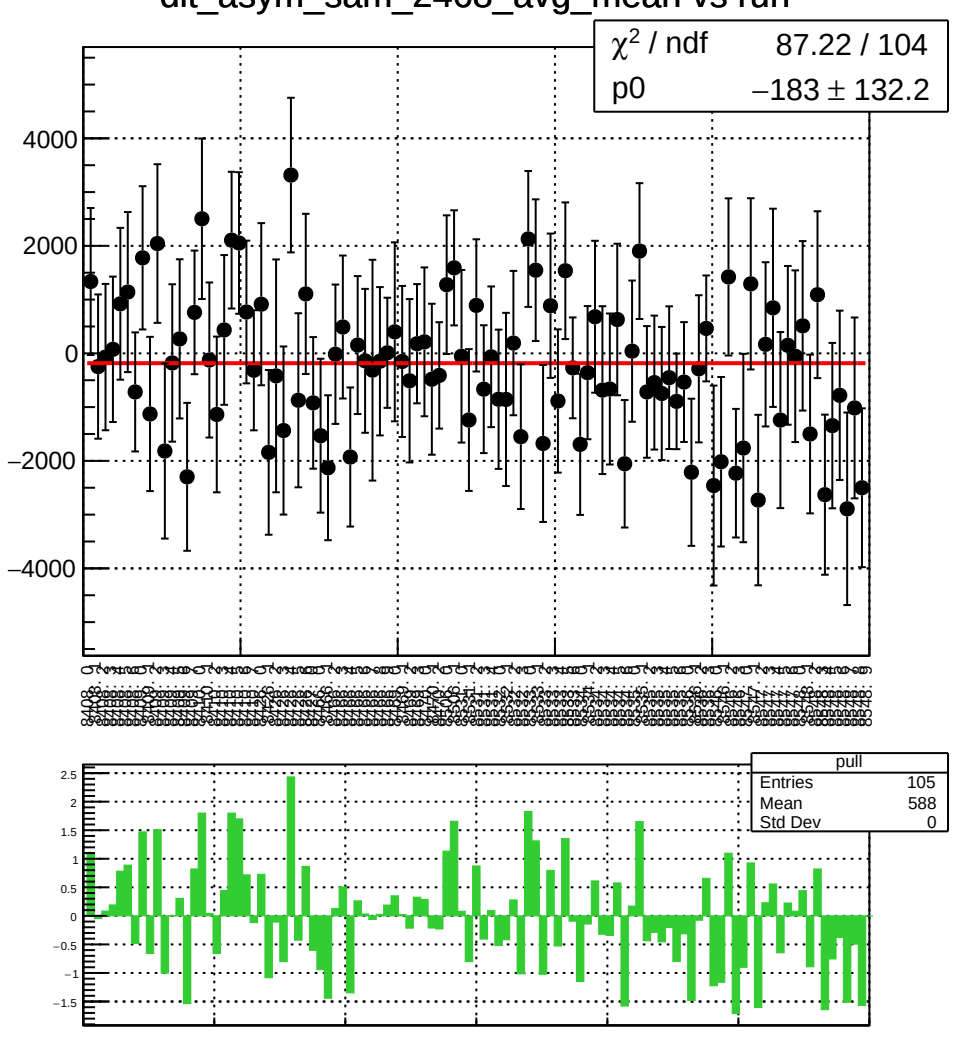

eigen_cor_asym_sam_2468_avg_mean vs run
χ² / ndf 85.36 / 104
p0 −1.886 ± 123.2
4000
2000
0
−2000
−4000
pull
Entries 105
Mean 1332
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.005487
Std Dev 0.9016
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

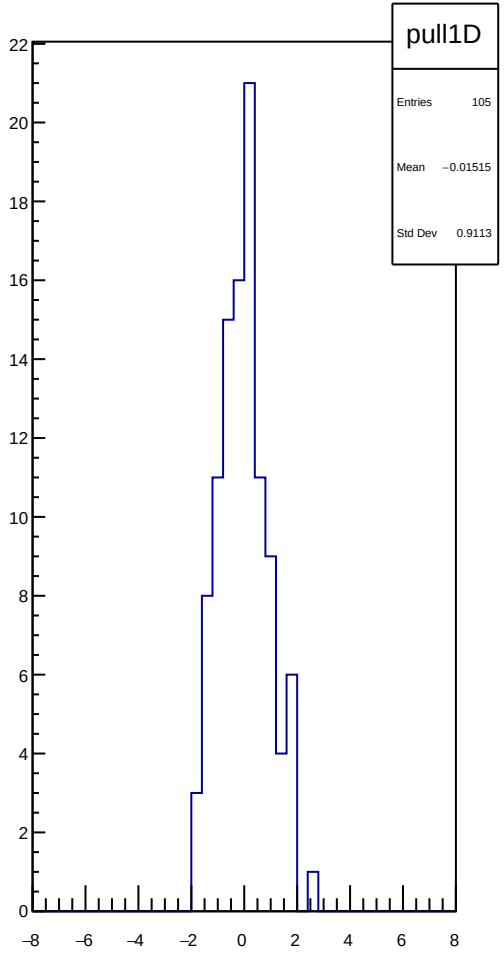

eigen_cor_asym_sam_2468_avg_rms vs run
χ^2 / ndf 2.588e+04 / 104
p0 123.8 ± 0.08711
200
180
160
140
120
100

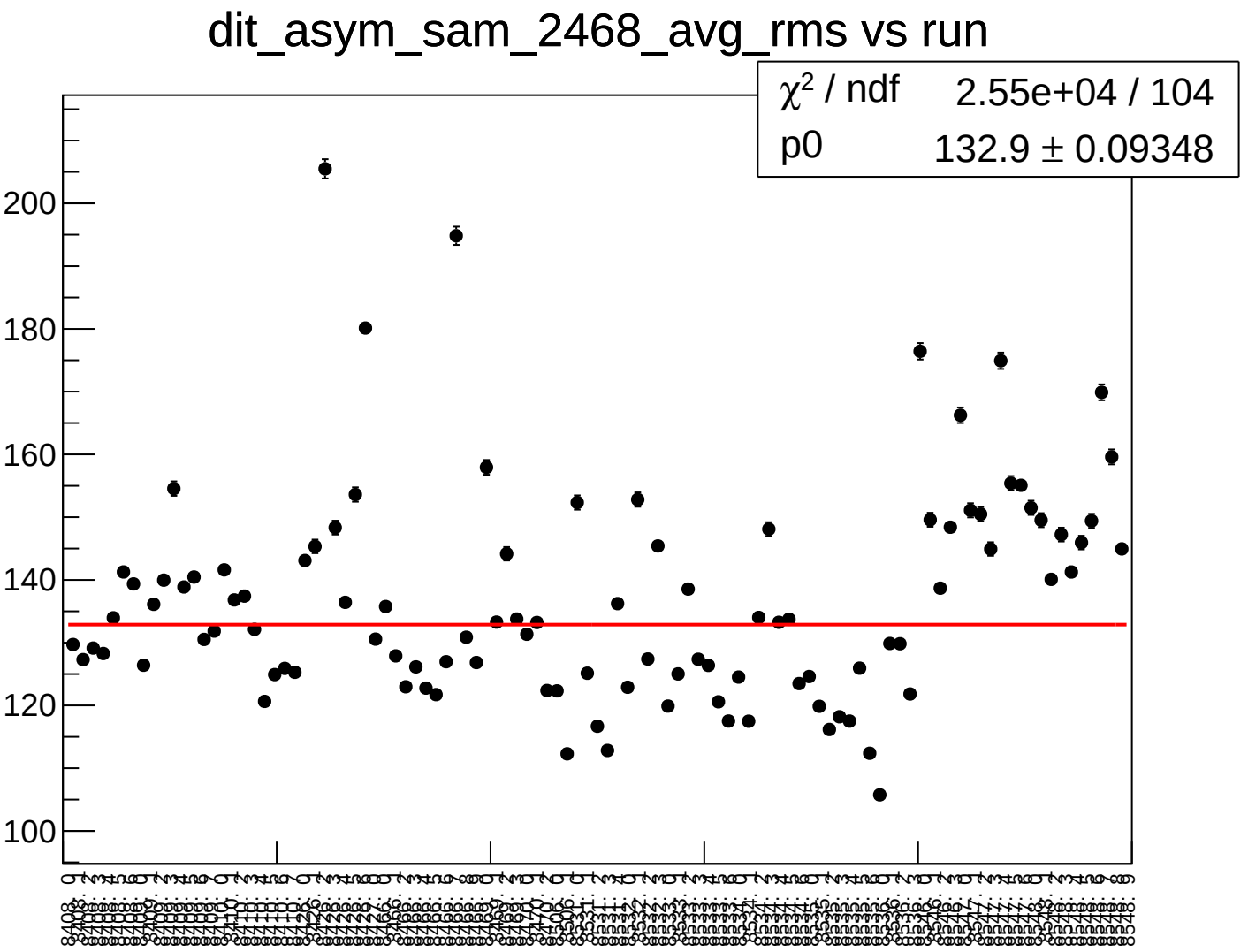

asym_sam_2468_avg_eigen_cor_correction_mean vs run
χ² / ndf 112.3 / 104
p0 −5894 ± 1683
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean 743.7
Std Dev 0
2
1
0
−1
−2

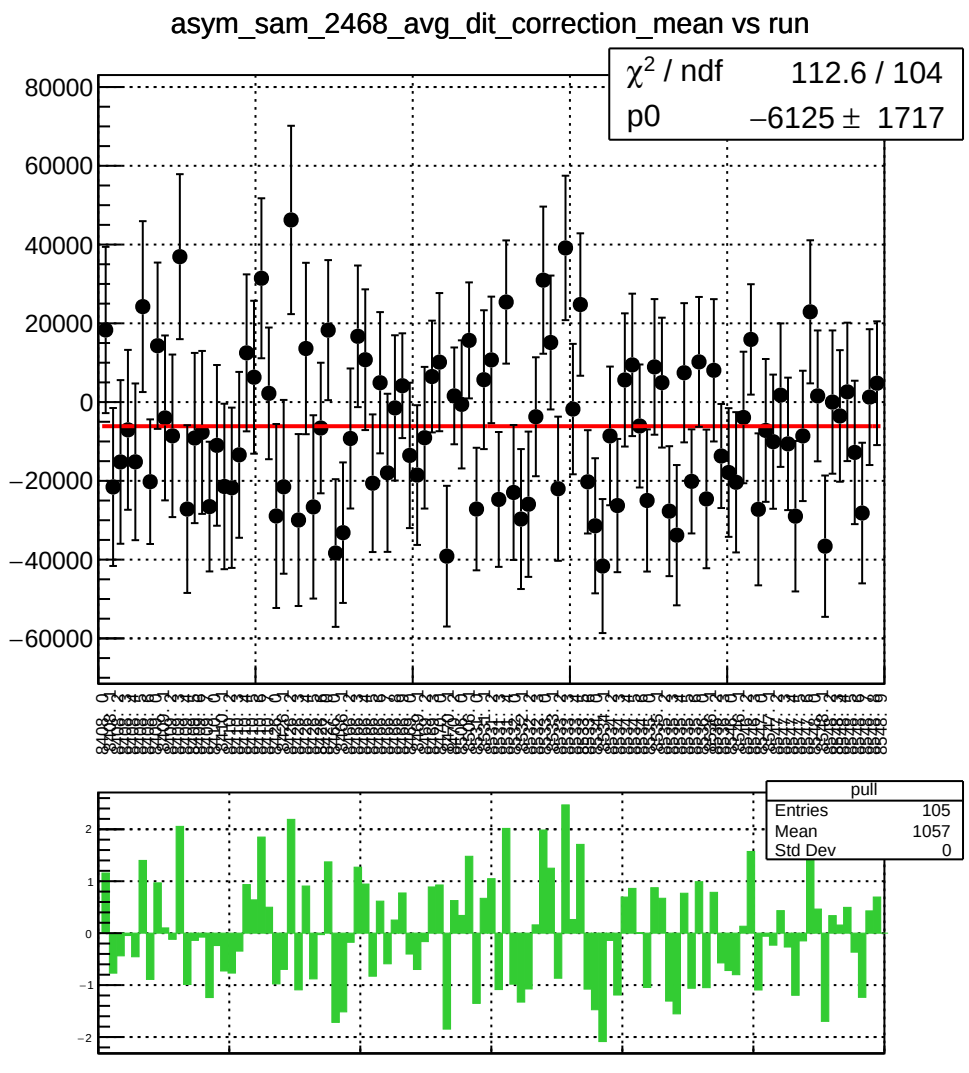

pull1D
Entries 105
Mean −0.002399
Std Dev 1.034
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

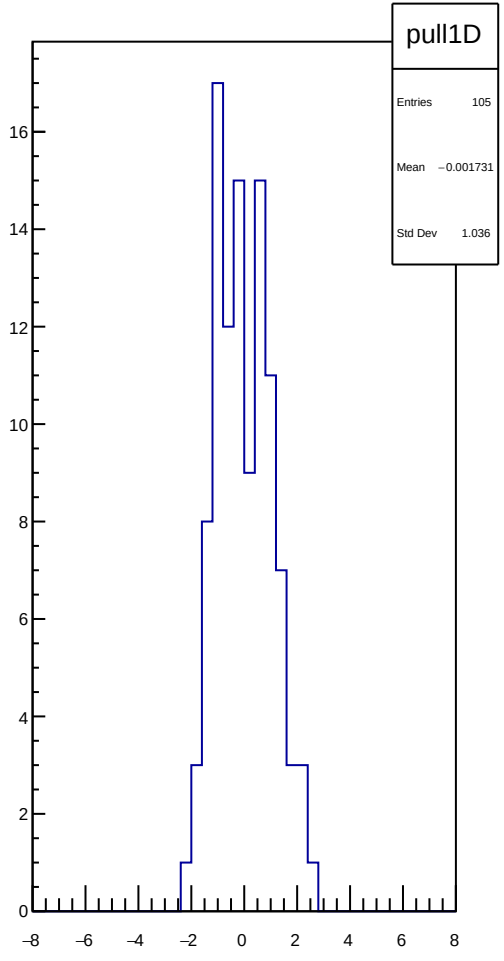

asym_sam_2468_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.801e+04 / 104
p0 1694 ± 1.19
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400

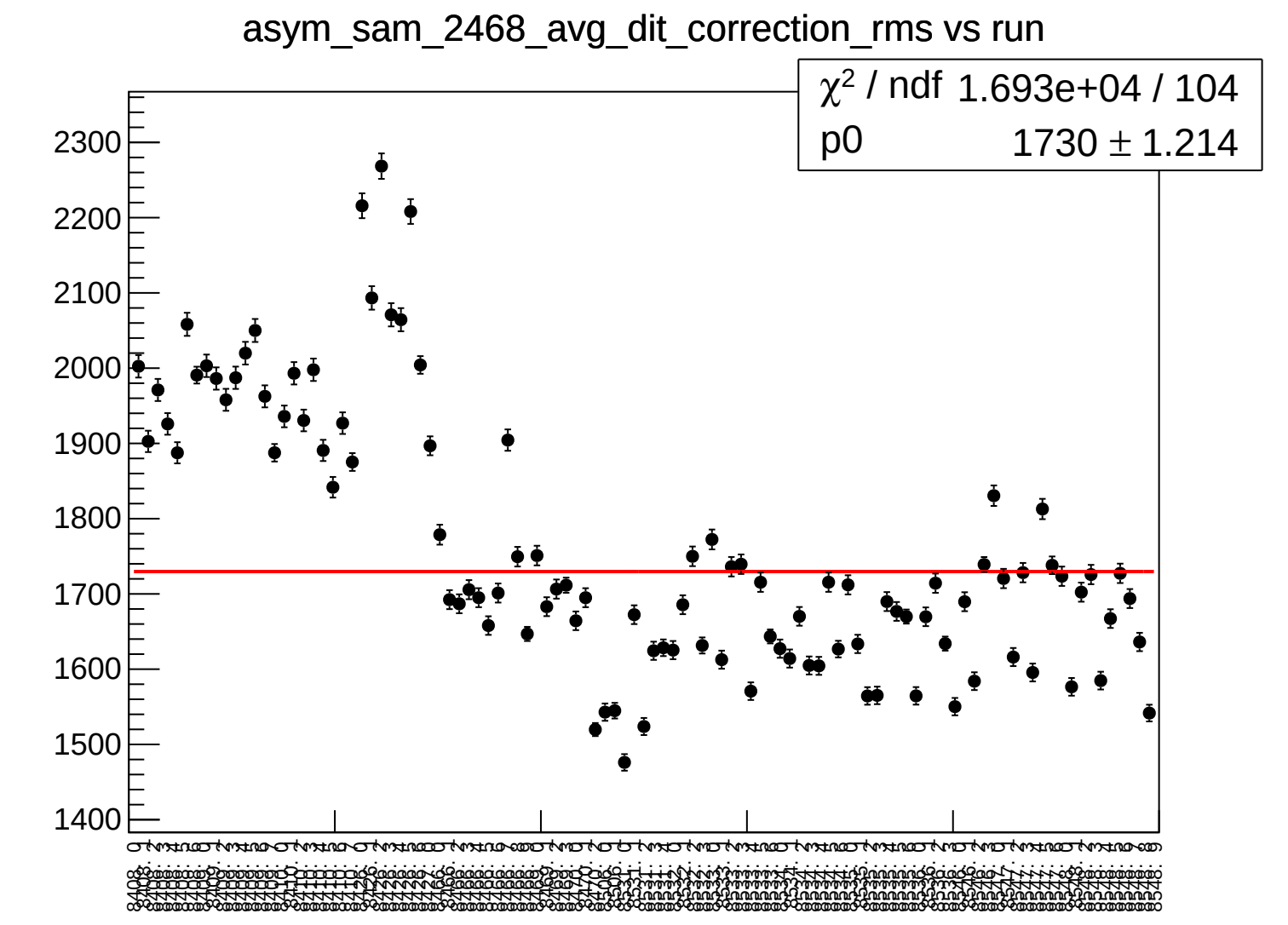

dit_asym_sam_2468_avg_mean vs run
χ² / ndf 87.22 / 104
p0 −183 ± 132.2
4000
2000
0
−2000
−4000
pull
Entries 105
Mean 588
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

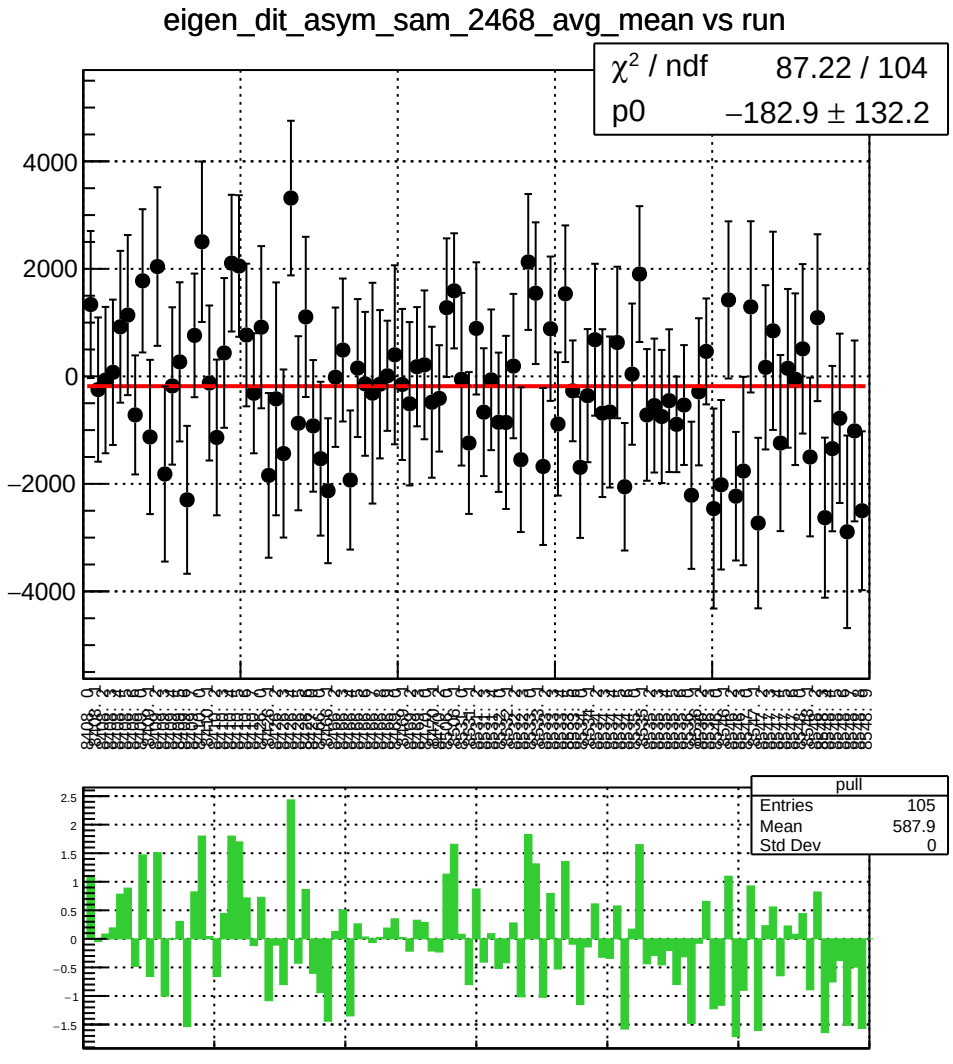

pull1D
Entries 105
Mean −0.01515
Std Dev 0.9113
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

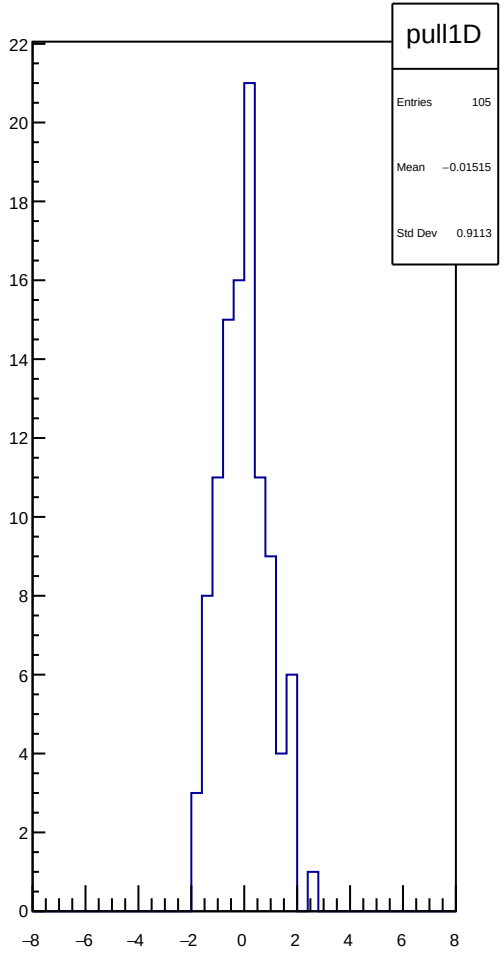

dit_asym_sam_2468_avg_rms vs run
χ² / ndf 2.55e+04 / 104
p0 132.9 ± 0.09348
200
180
160
140
120
100

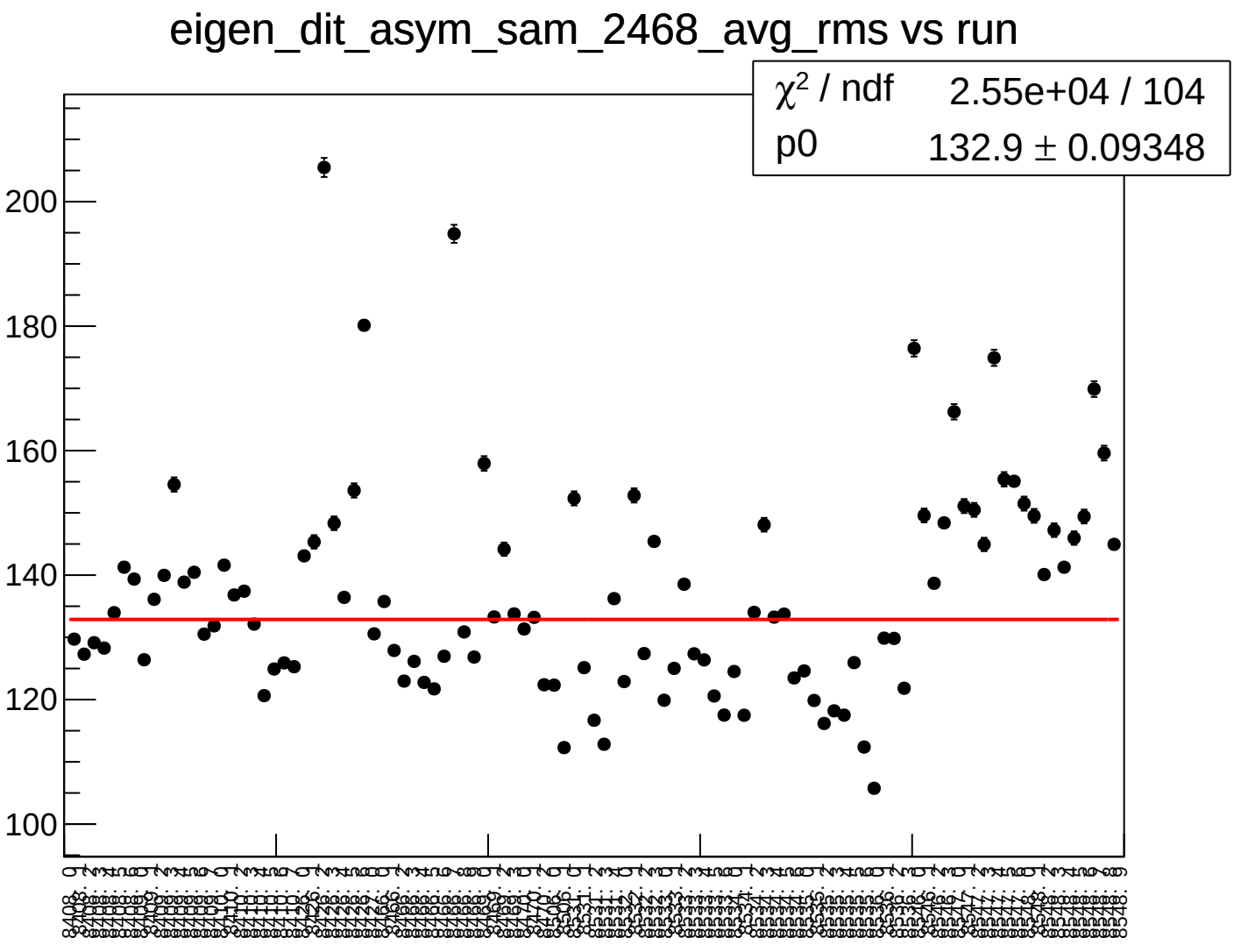

asym_sam_2468_avg_dit_correction_mean vs run
χ² / ndf 112.6 / 104
p0 −6125 ± 1717
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean 1057
Std Dev 0
2
1
0
−1
−2

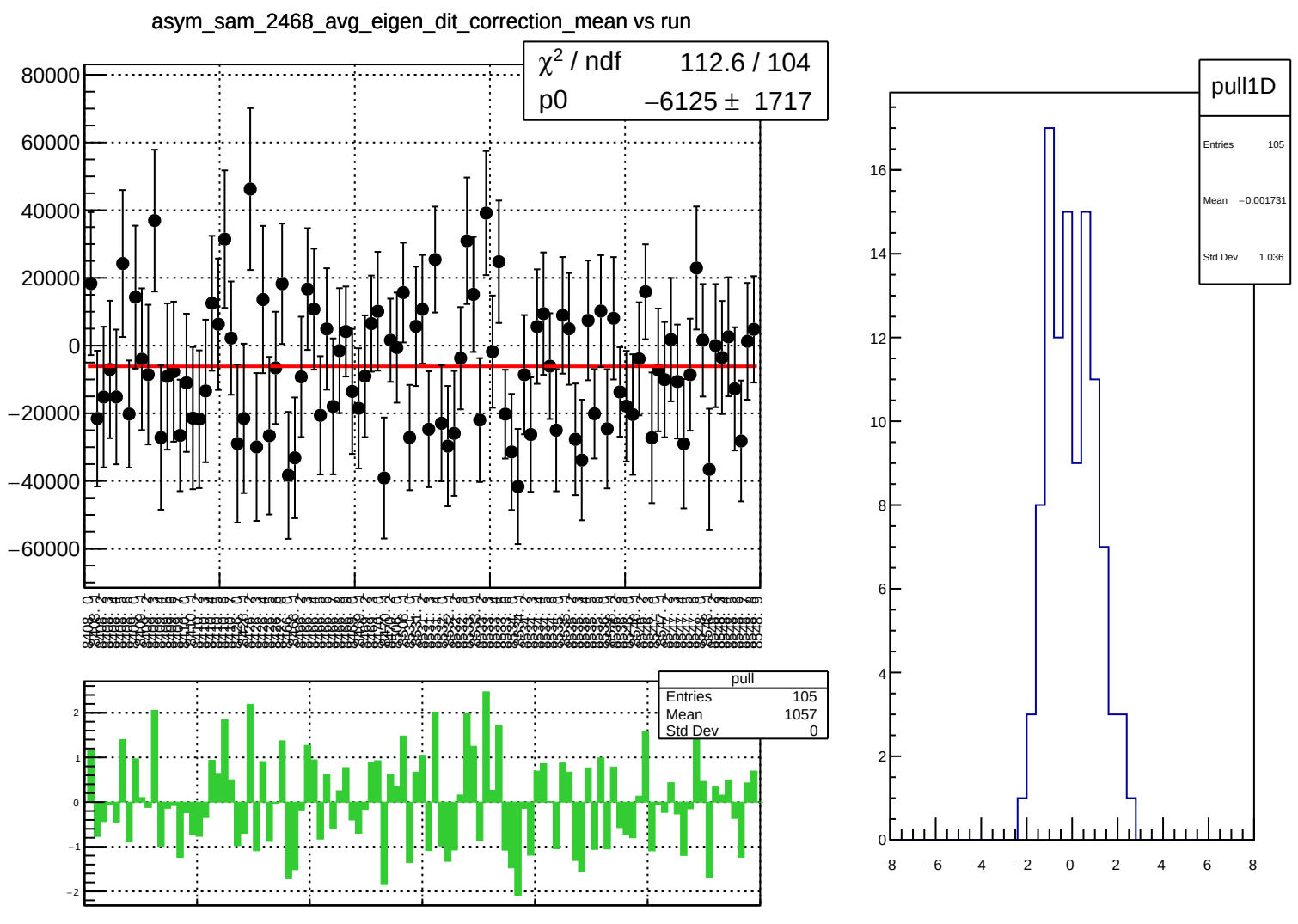

pull1D
Entries 105
Mean −0.001731
Std Dev 1.036
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

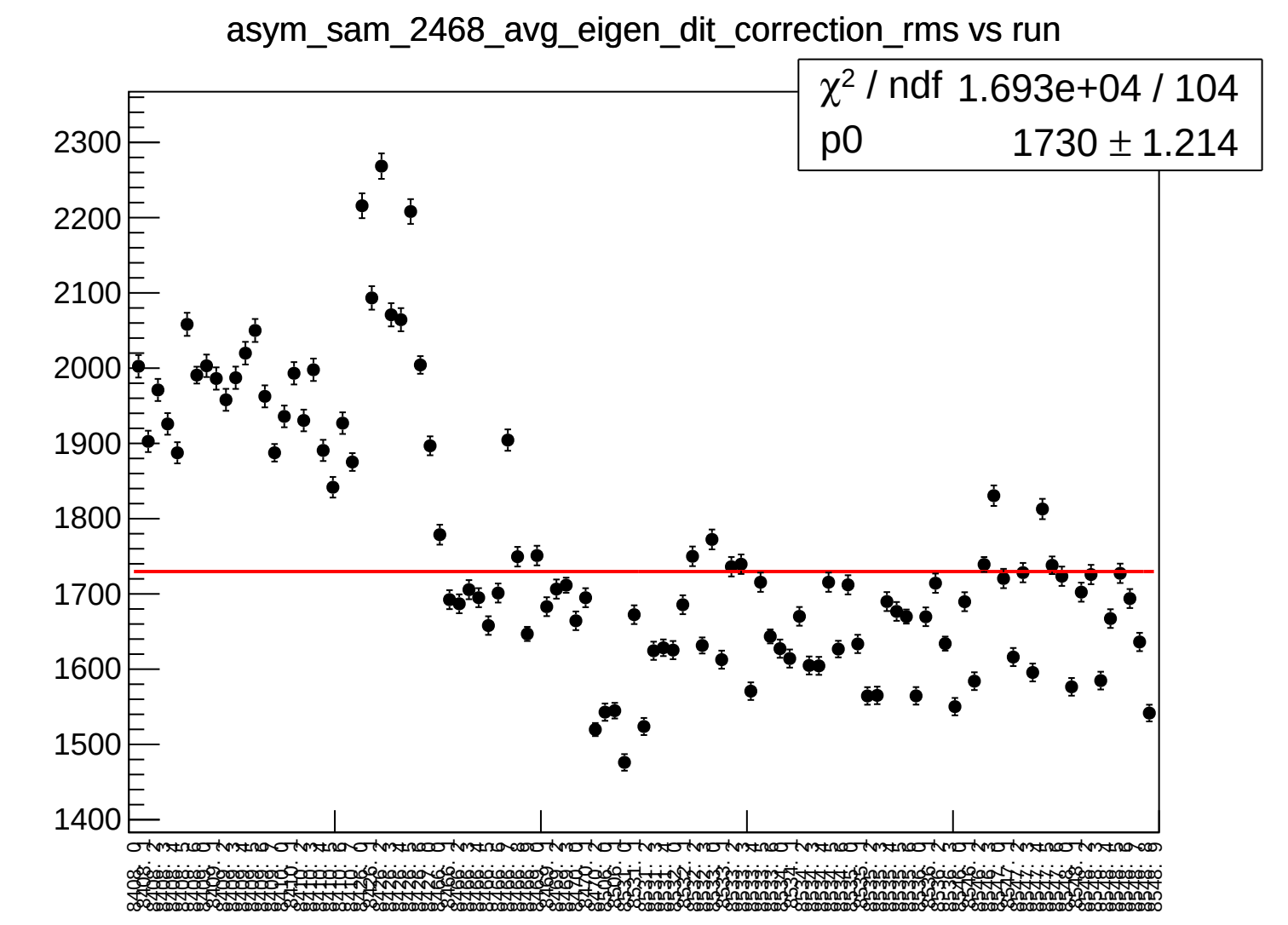

asym_sam_2468_avg_dit_correction_rms vs run
χ² / ndf 1.693e+04 / 104
p0 1730 ± 1.214
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400

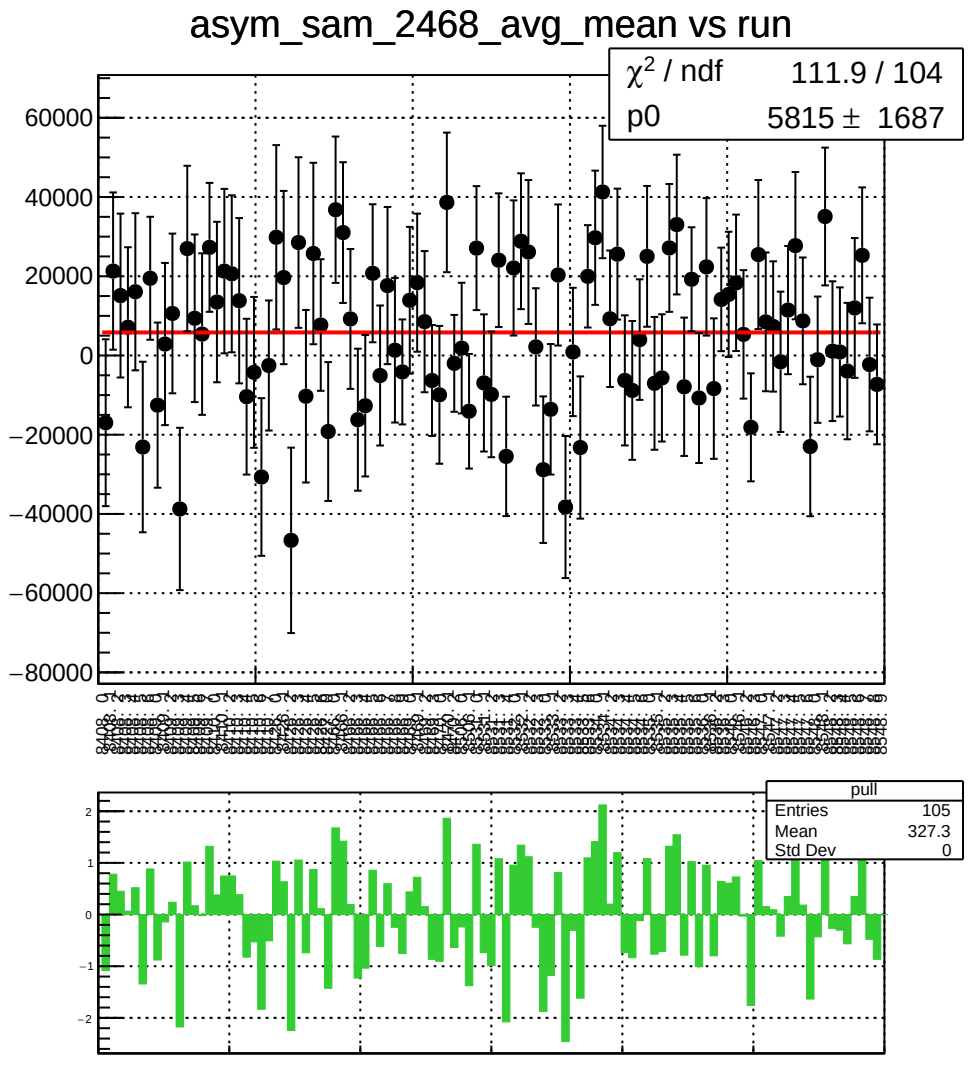

eigen_dit_asym_sam_2468_avg_mean vs run
χ² / ndf 87.22 / 104
p0 −182.9 ± 132.2
4000
2000
0
−2000
−4000
pull
Entries 105
Mean 587.9
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

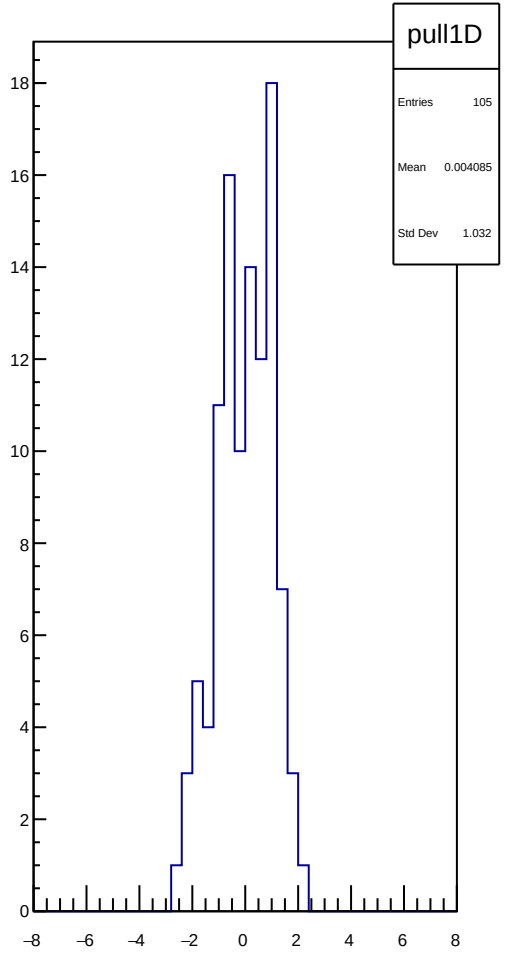

pull1D
Entries 105
Mean −0.01515
Std Dev 0.9113
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


eigen_dit_asym_sam_2468_avg_rms vs run
χ² / ndf 2.55e+04 / 104
p0 132.9 ± 0.09348
200
180
160
140
120
100


asym_sam_2468_avg_eigen_dit_correction_mean vs run
χ² / ndf 112.6 / 104
p0 −6125 ± 1717
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean 1057
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.001731
Std Dev 1.036
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 1.693e+04 / 104
p0 1730 ± 1.214
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400


asym_sam_2468_avg_mean vs run
χ² / ndf 111.9 / 104
p0 5815 ± 1687
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 105
Mean 327.3
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 105
Mean 0.004085
Std Dev 1.032
18
16
14
12
10
8
6
4
2
0
−8
−6
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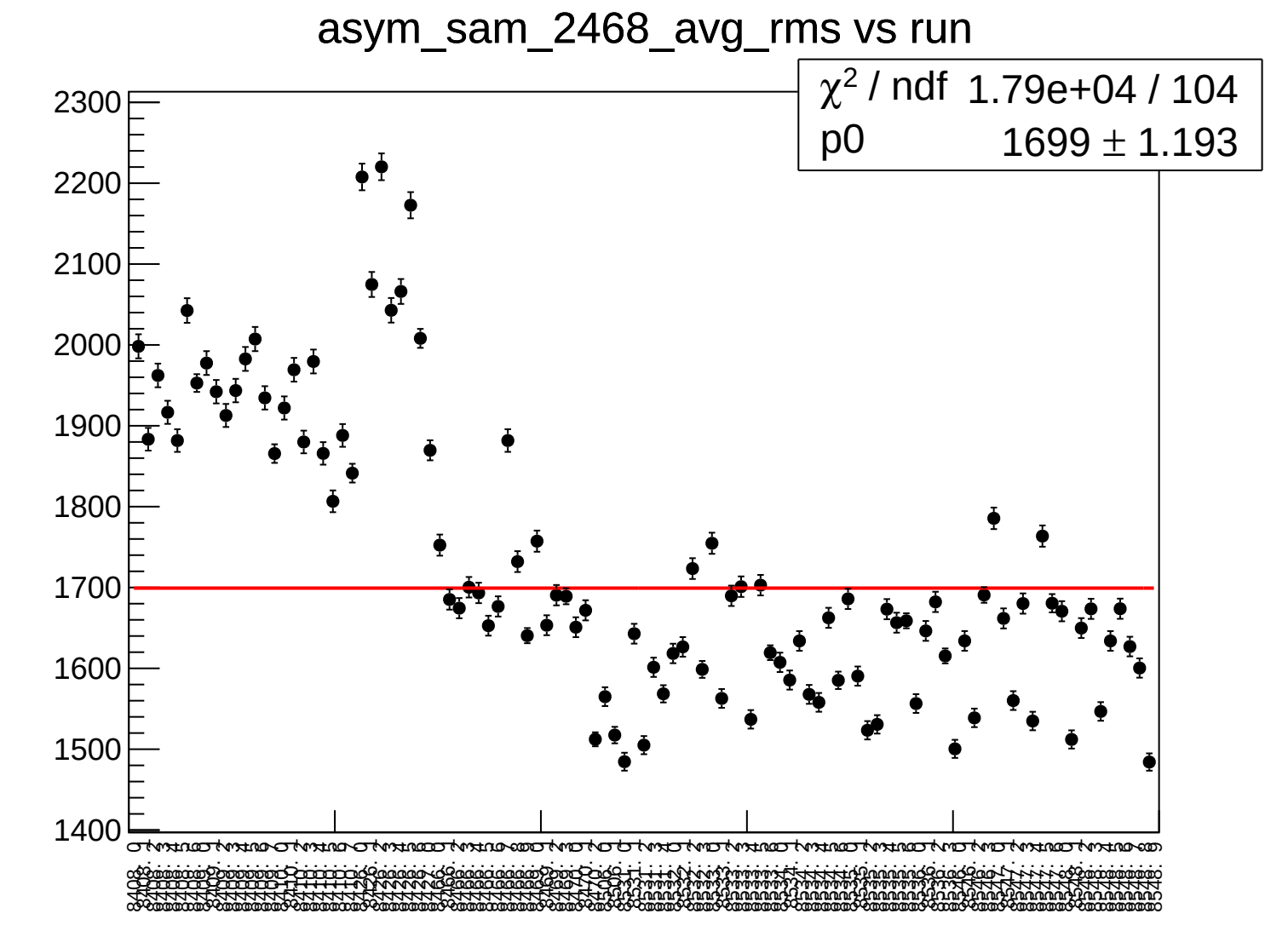
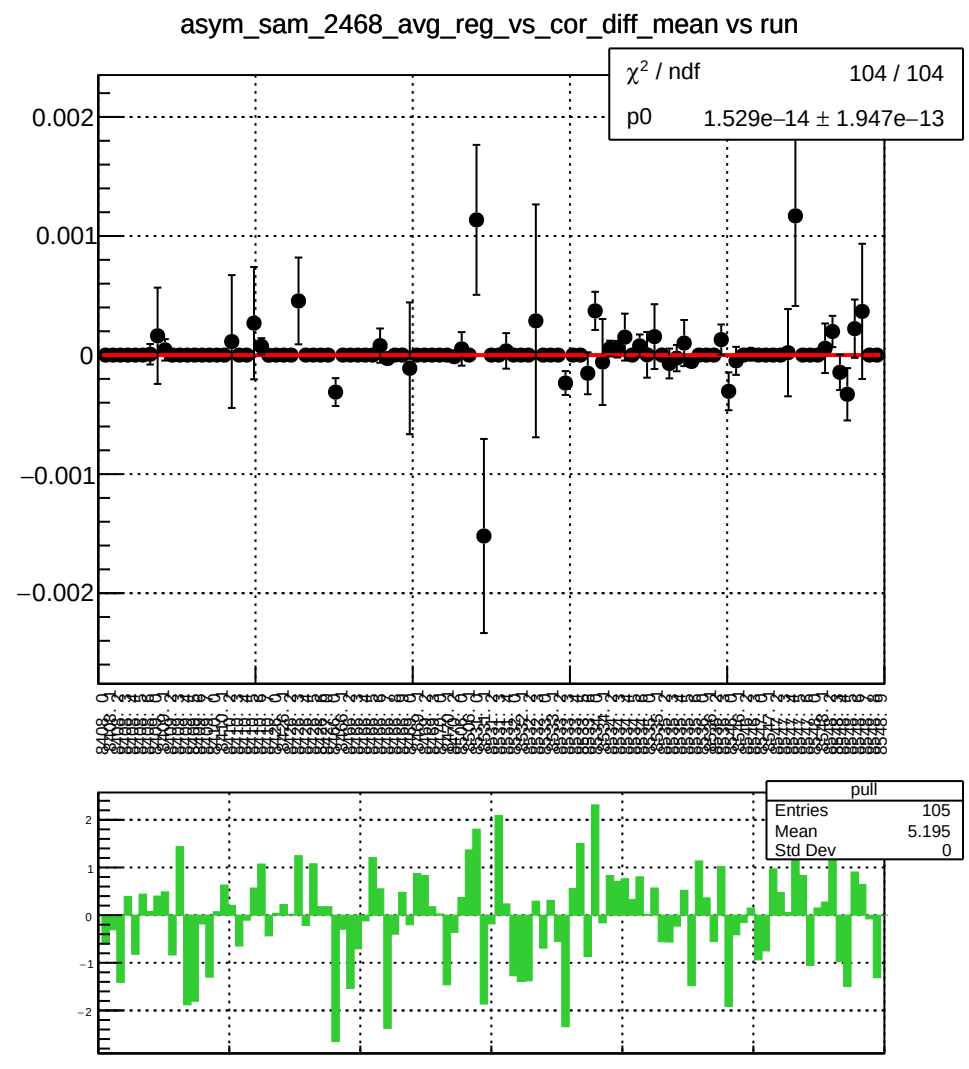
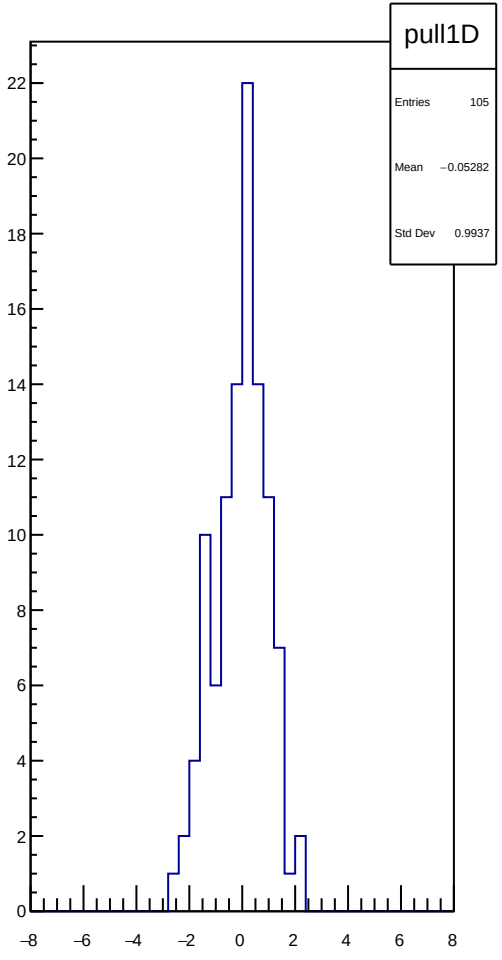
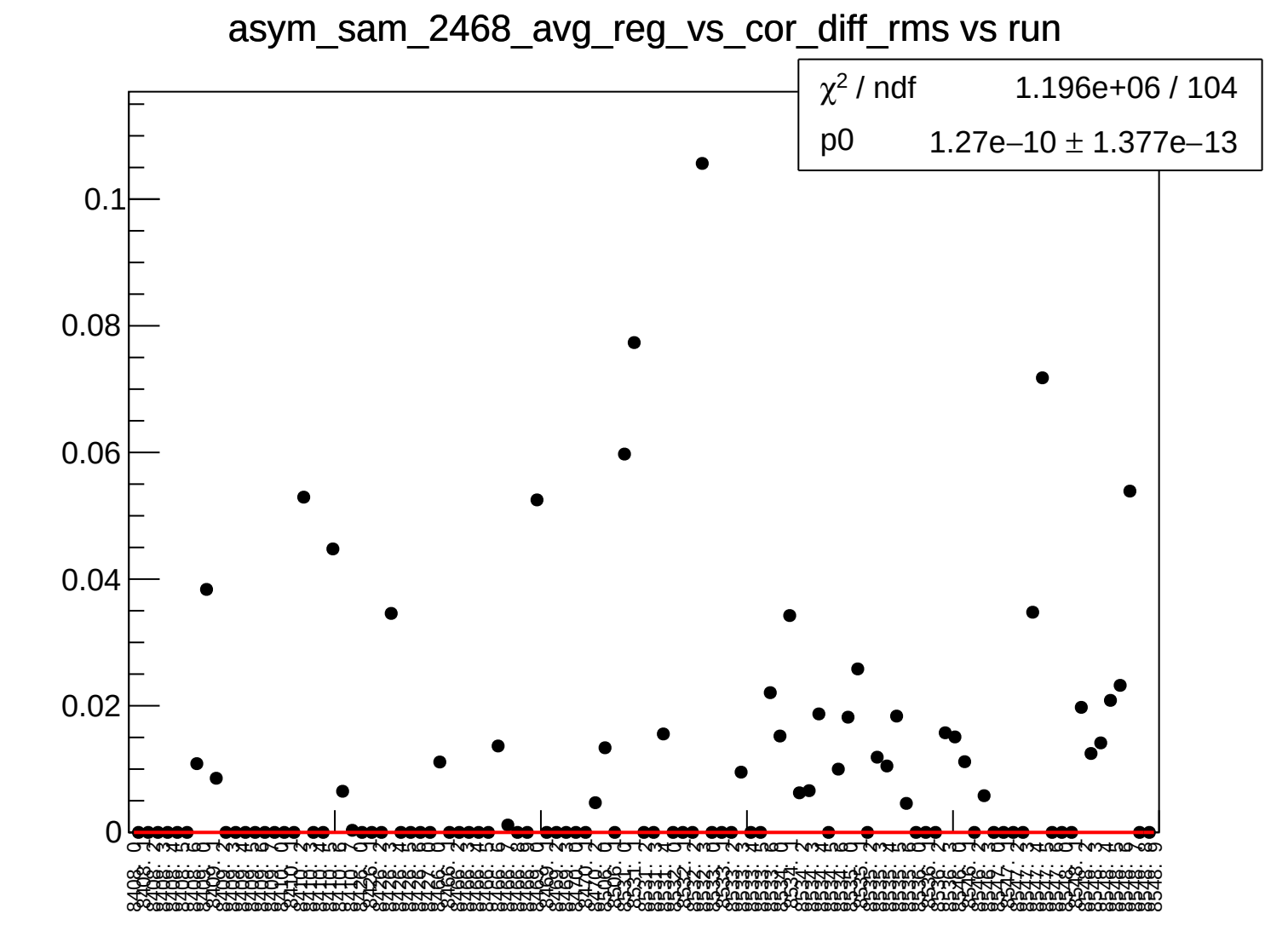
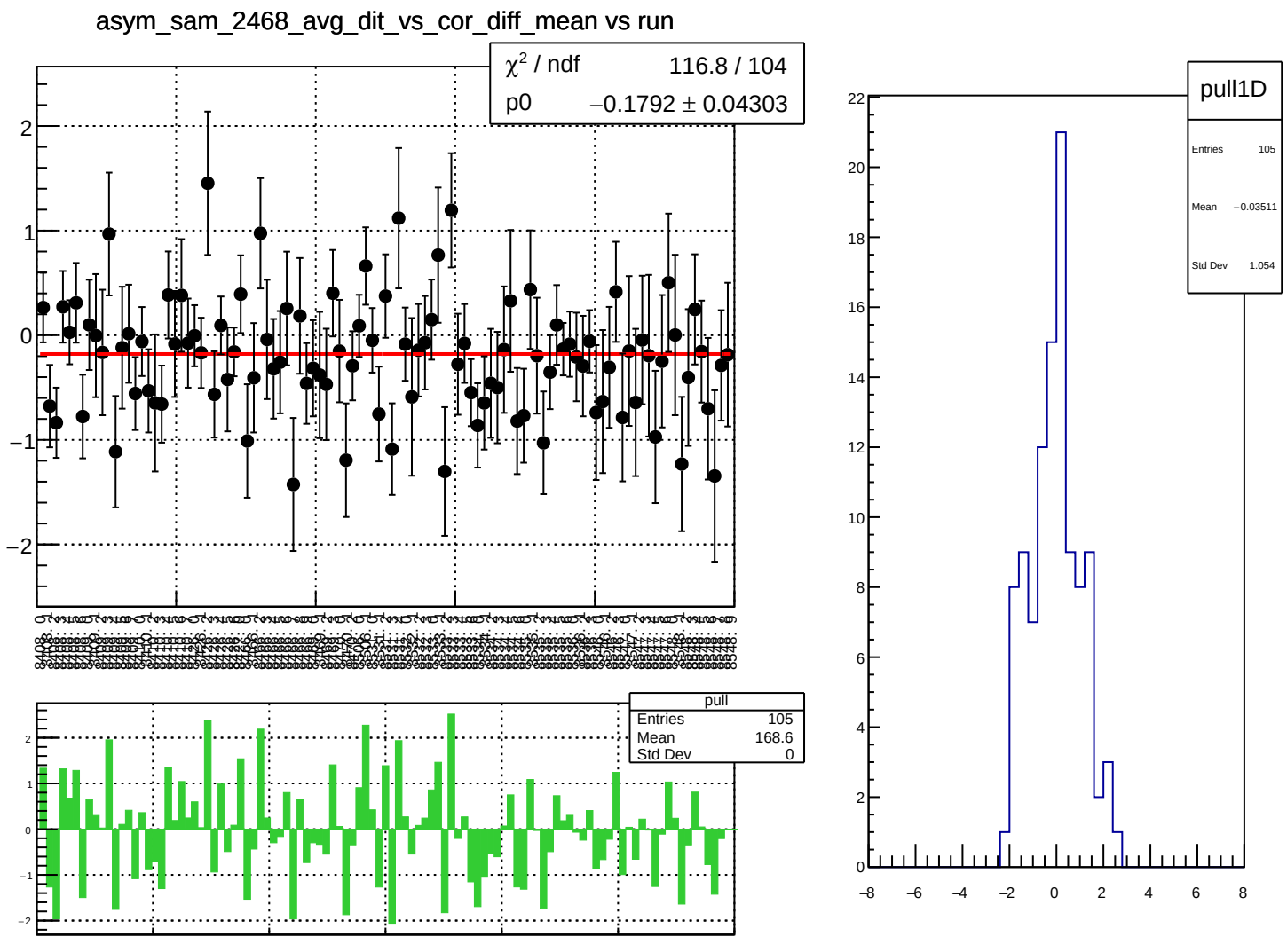
0
2
4
6
8

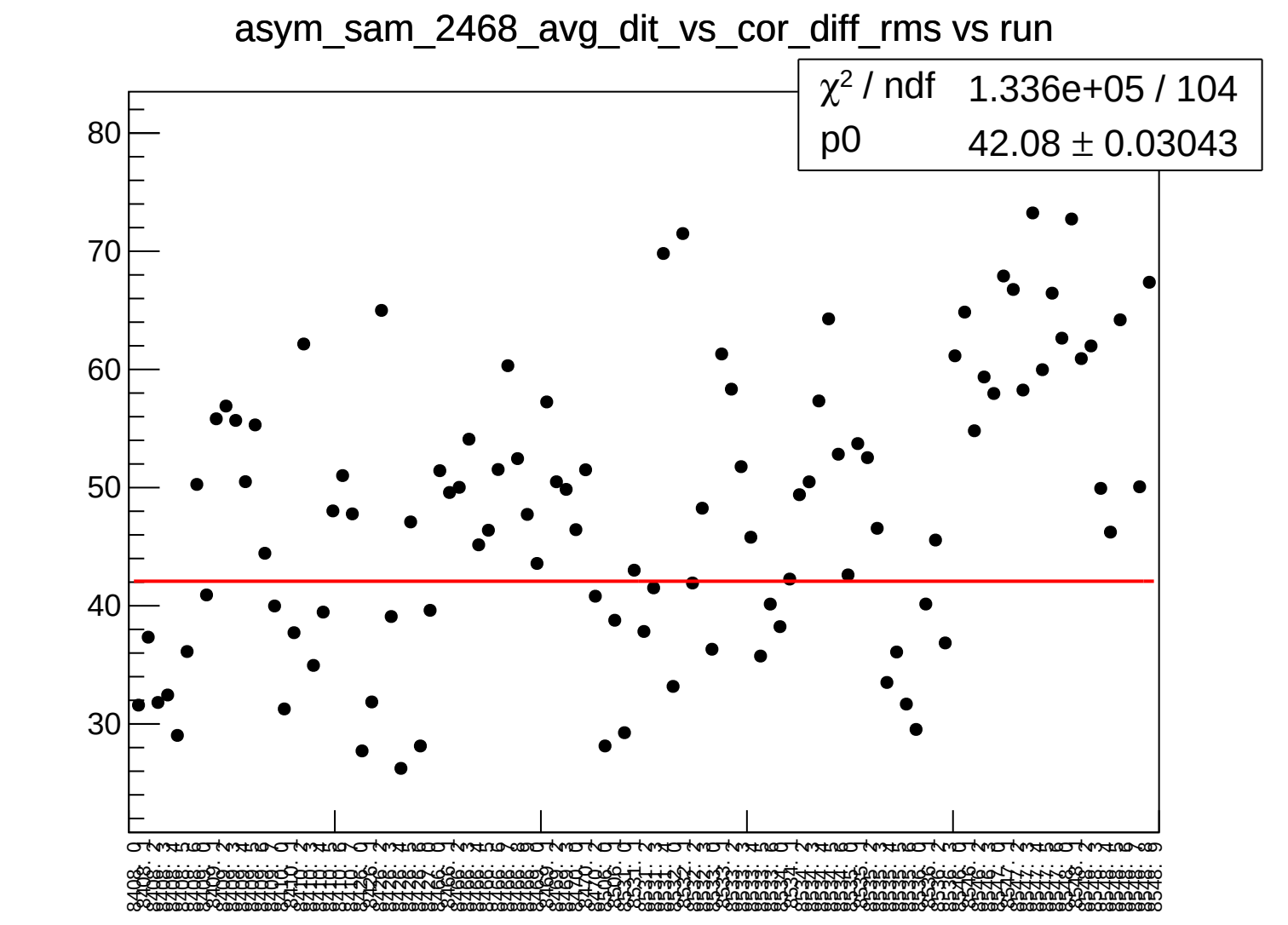

asym_sam_2468_avg_rms vs run
χ² / ndf 1.79e+04 / 104
p0 1699 ± 1.193
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400

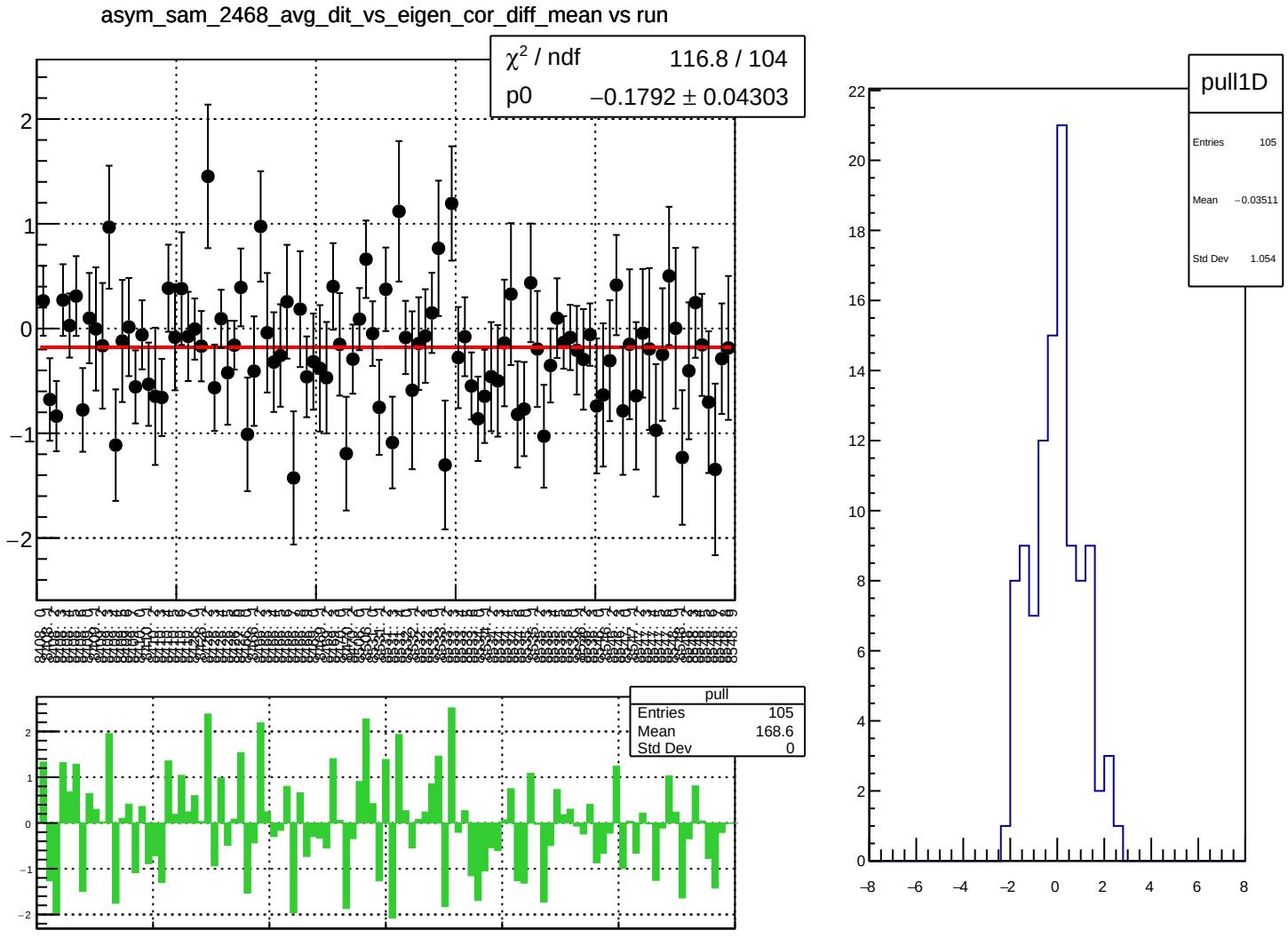

asym_sam_2468_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 104 / 104
p0 1.529e−14 ± 1.947e−13
0.002
0.001
0
−0.001
−0.002
pull
Entries 105
Mean 5.195
Std Dev 0
2
1
0
−1
−2

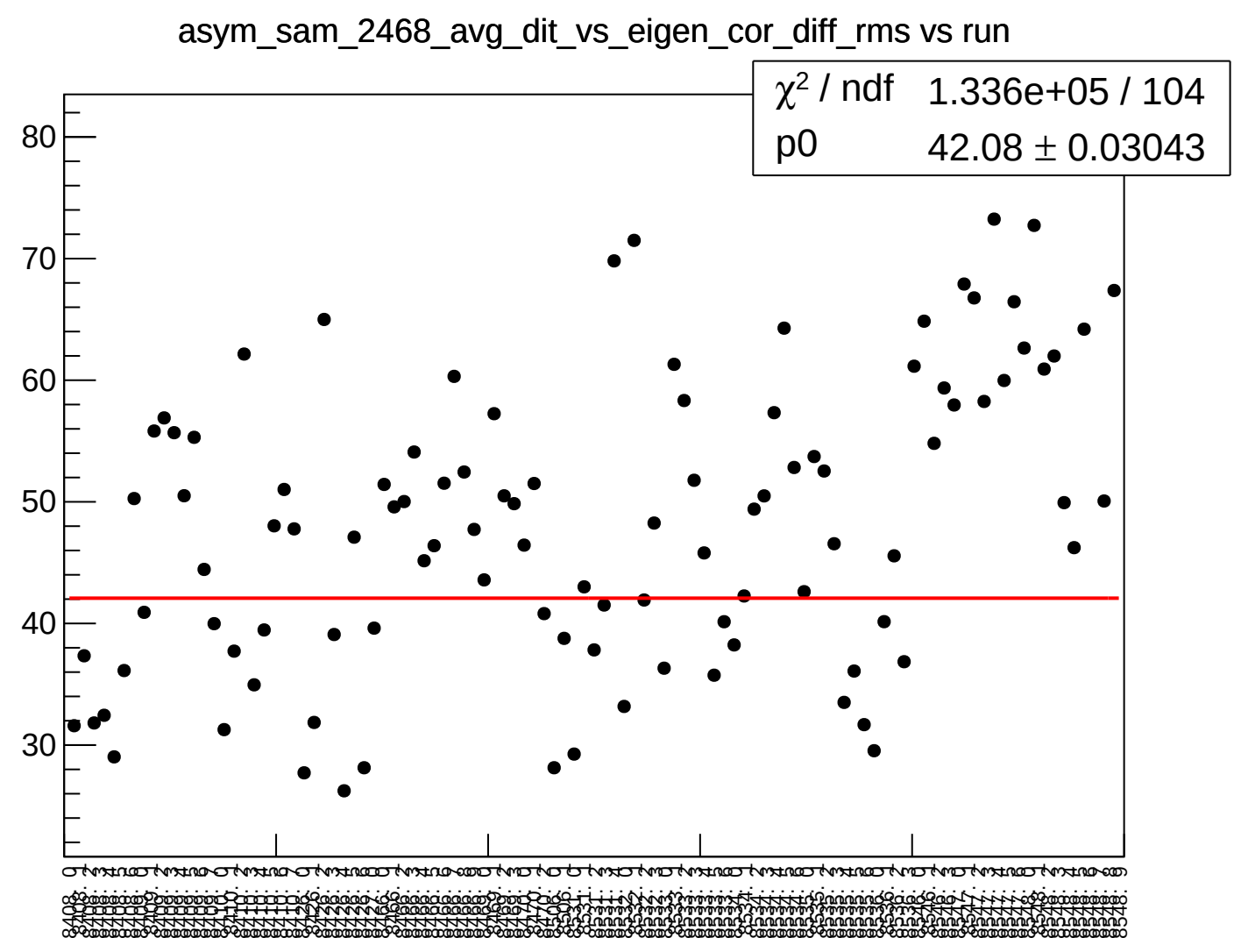

pull1D
Entries 105
Mean −0.05282
Std Dev 0.9937
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

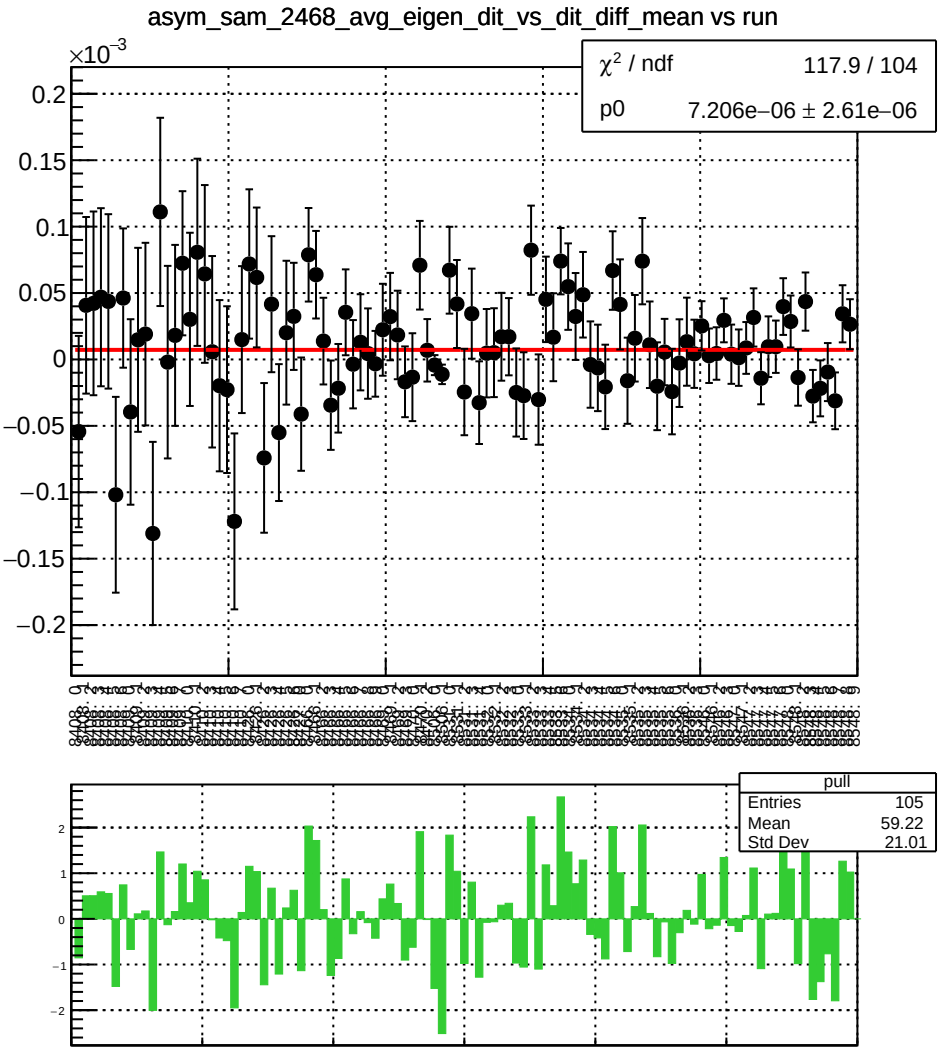

asym_sam_2468_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.196e+06 / 104
p0 1.27e−10 ± 1.377e−13
0.1
0.08
0.06
0.04
0.02
0

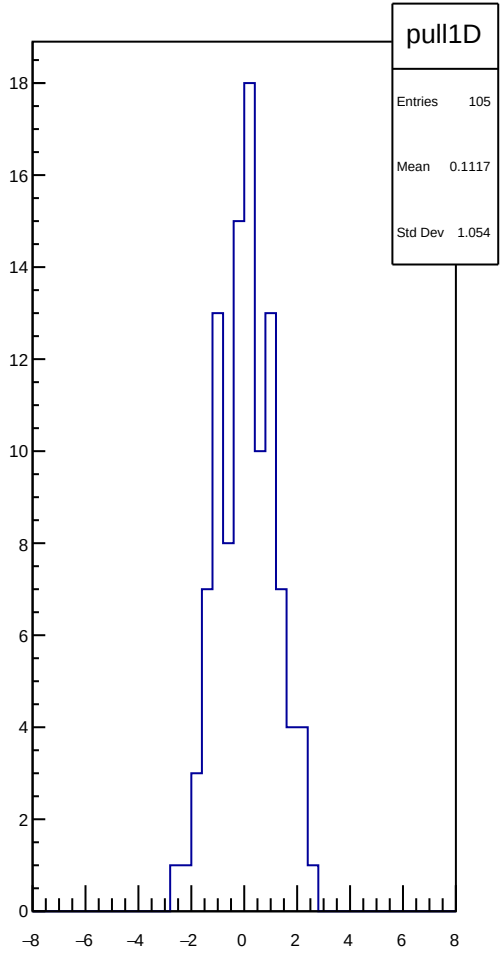

asym_sam_2468_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 116.8 / 104
p0 −0.1792 ± 0.04303
pull
Entries 105
Mean 168.6
Std Dev 0
pull1D
Entries 105
Mean −0.03511
Std Dev 1.054

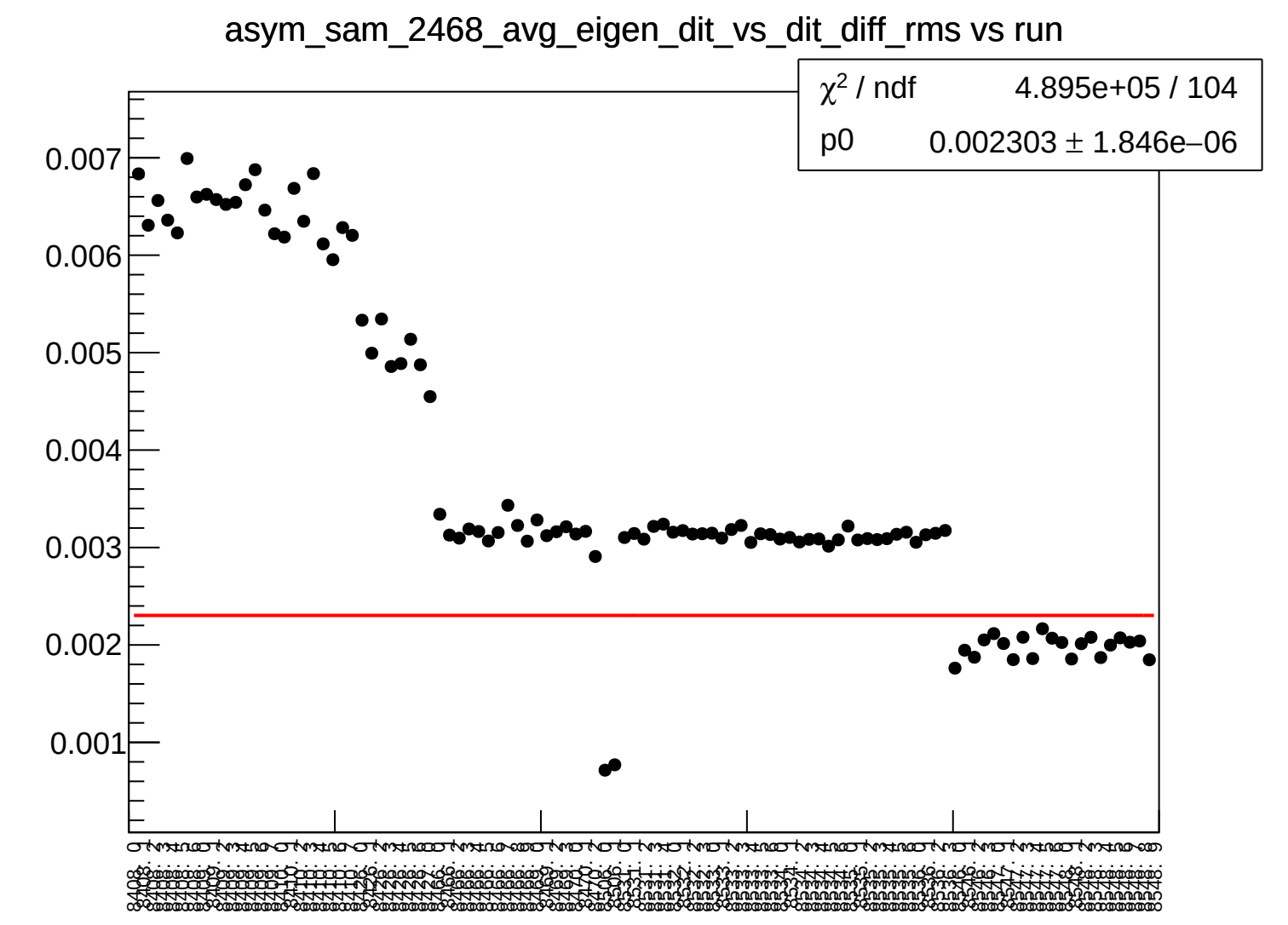

asym_sam_2468_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 1.336e+05 / 104
p0 42.08 ± 0.03043
80
70
60
50
40
30

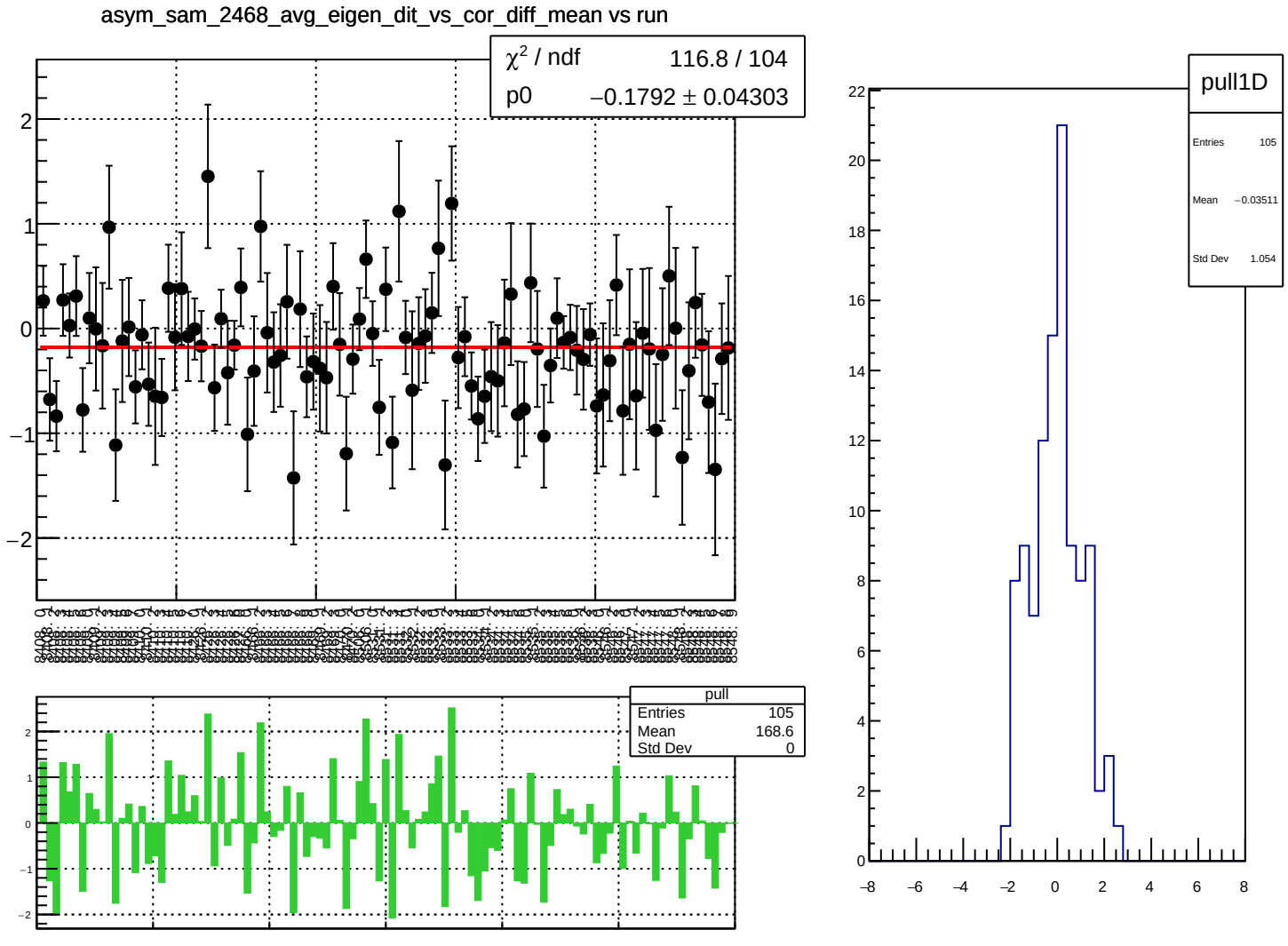

asym_sam_2468_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 116.8 / 104
p0 −0.1792 ± 0.04303
pull
Entries 105
Mean 168.6
Std Dev 0
pull1D
Entries 105
Mean −0.03511
Std Dev 1.054

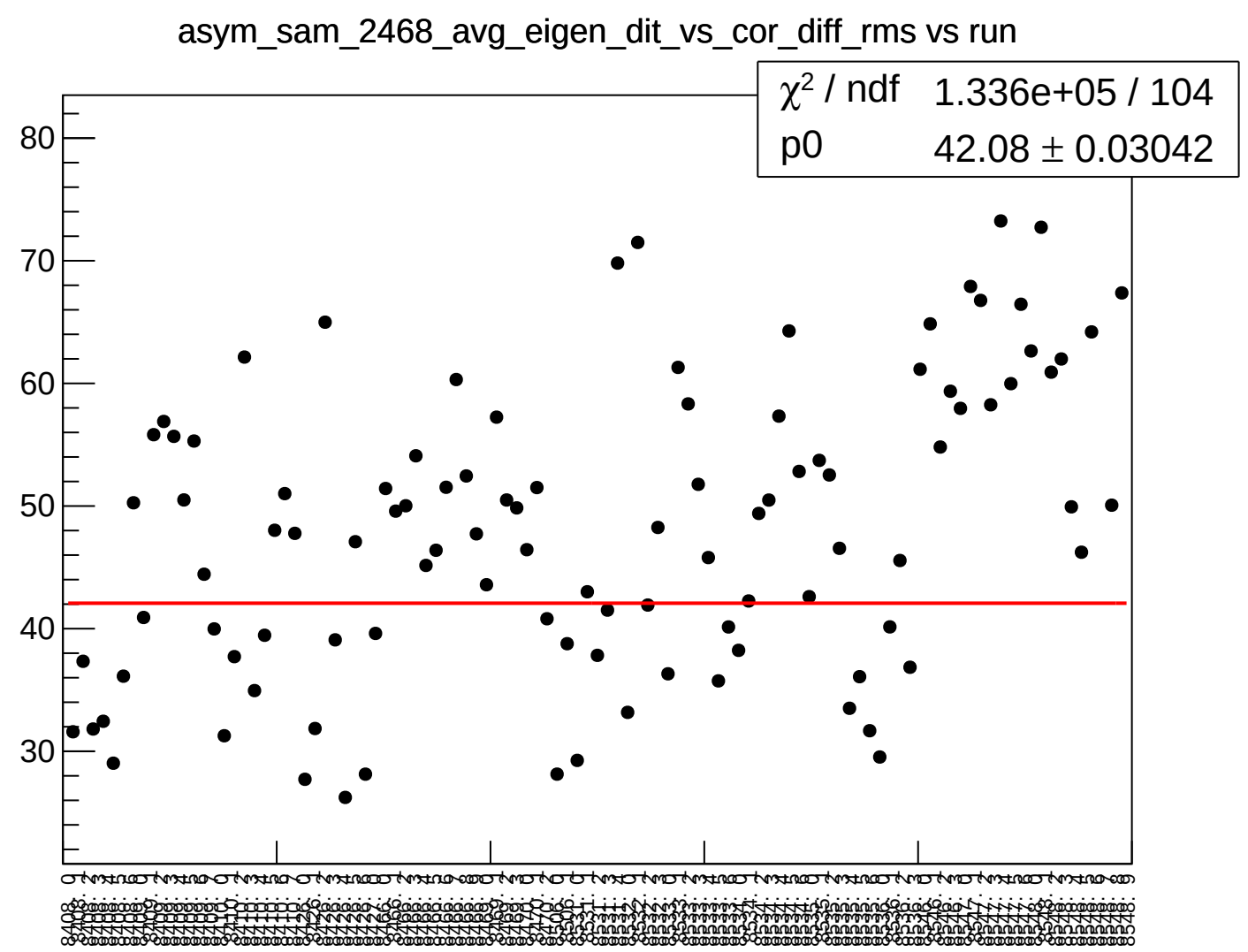

asym_sam_2468_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.336e+05 / 104
p0 42.08 ± 0.03043
80
70
60
50
40
30

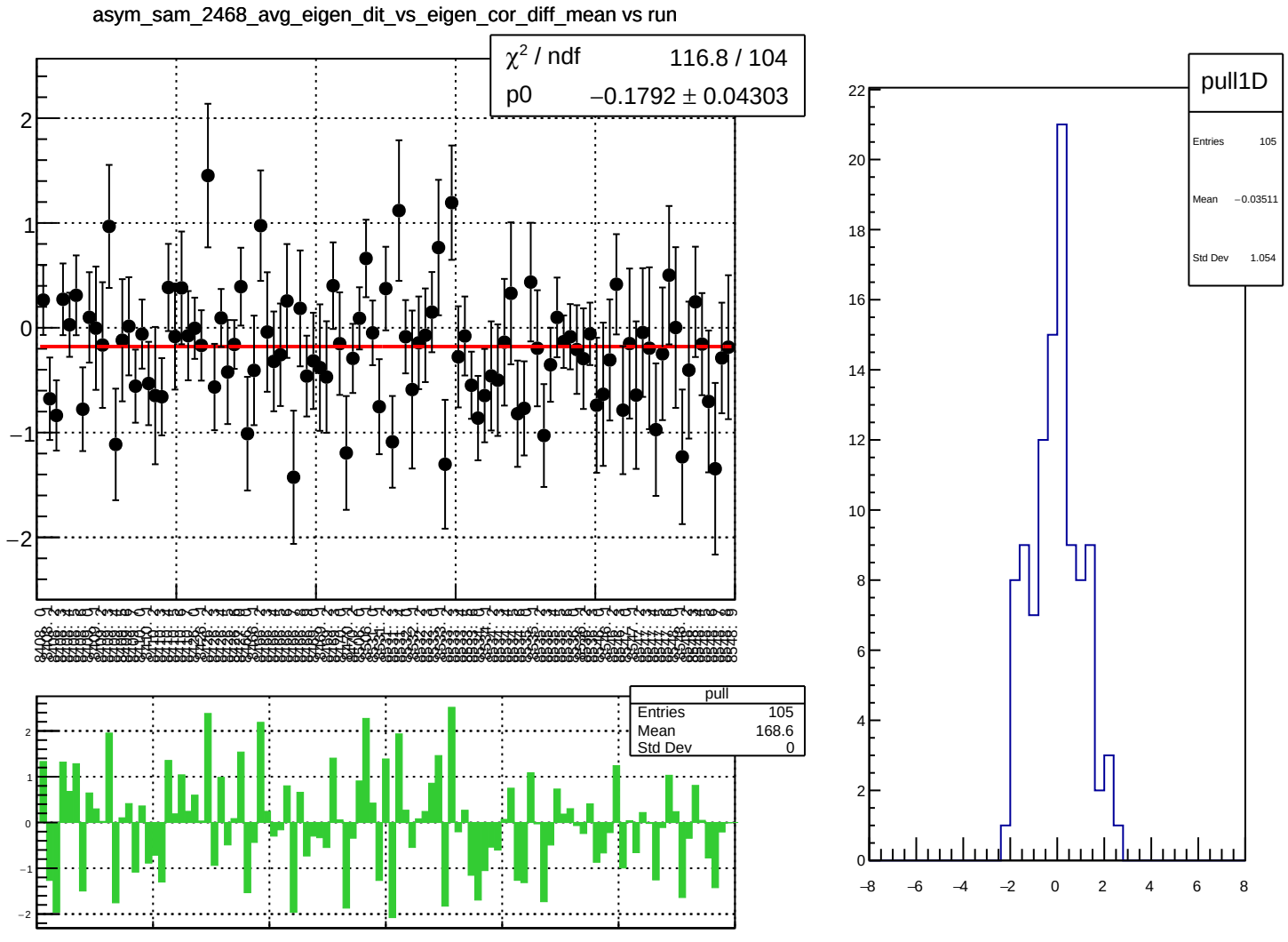

asym_sam_2468_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 117.9 / 104
p0 7.206e−06 ± 2.61e−06
0.2
0.15
0.1
0.05
0
−0.05
−0.1
−0.15
−0.2
pull
Entries 105
Mean 59.22
Std Dev 21.01
2
1
0
−1
−2

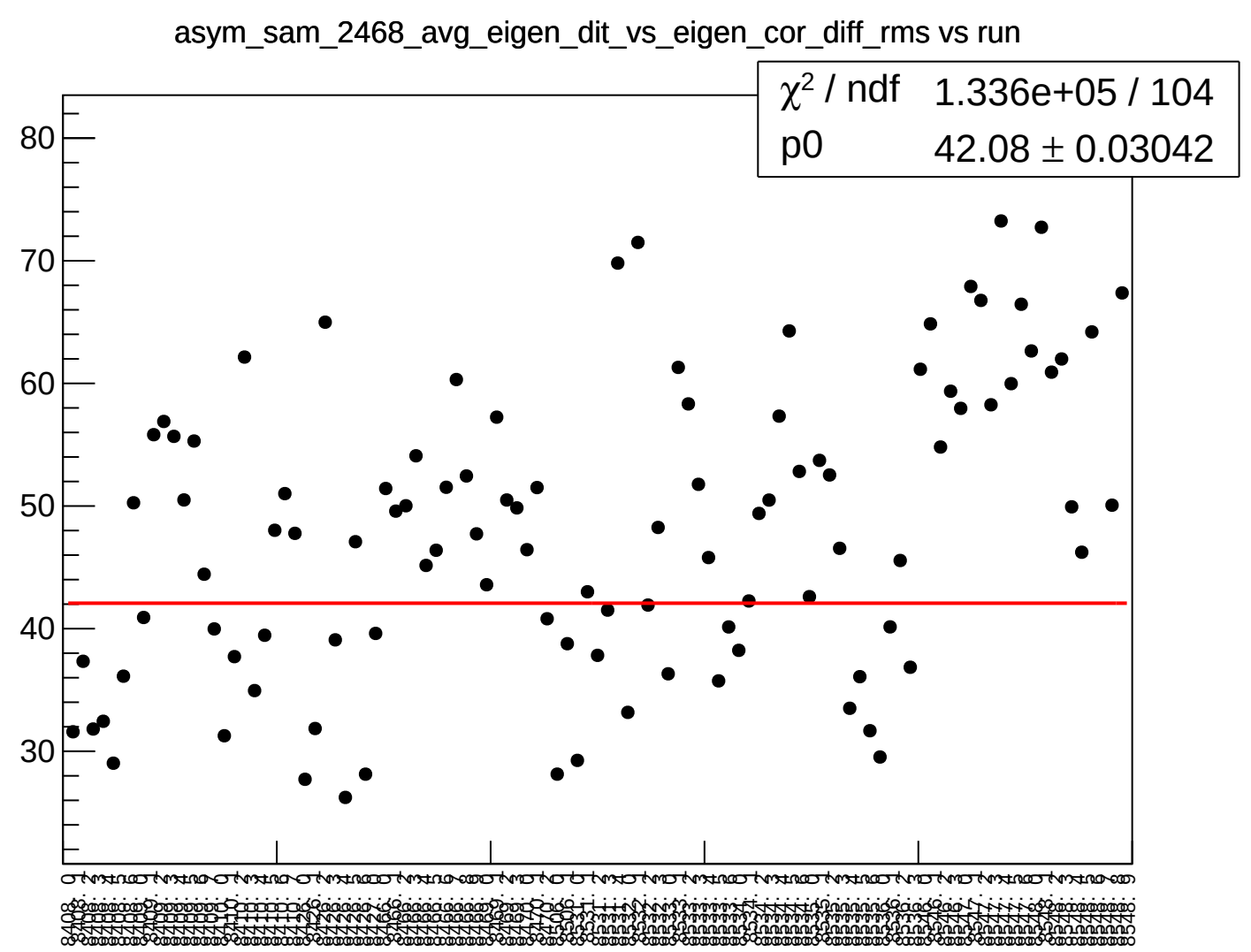

pull1D
Entries 105
Mean 0.1117
Std Dev 1.054
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

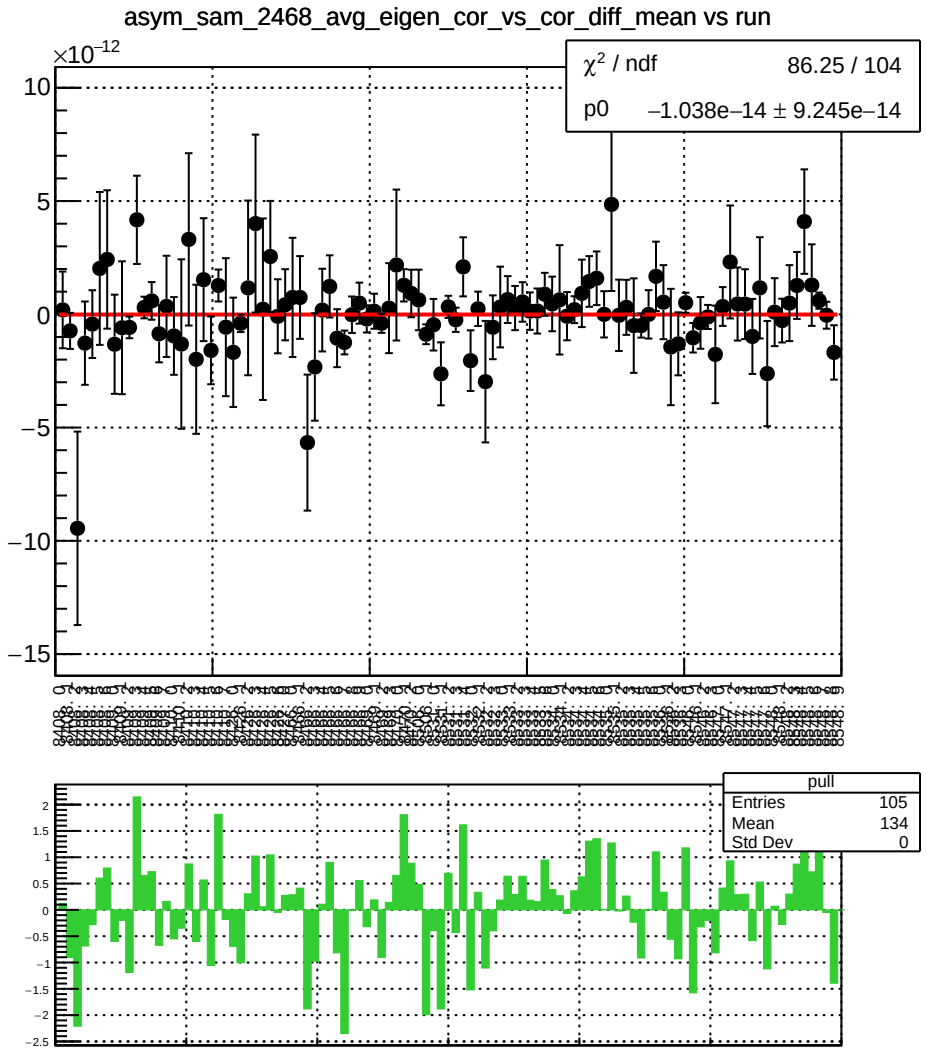

asym_sam_2468_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 4.895e+05 / 104
p0 0.002303 ± 1.846e−06
0.007
0.006
0.005
0.004
0.003
0.002
0.001

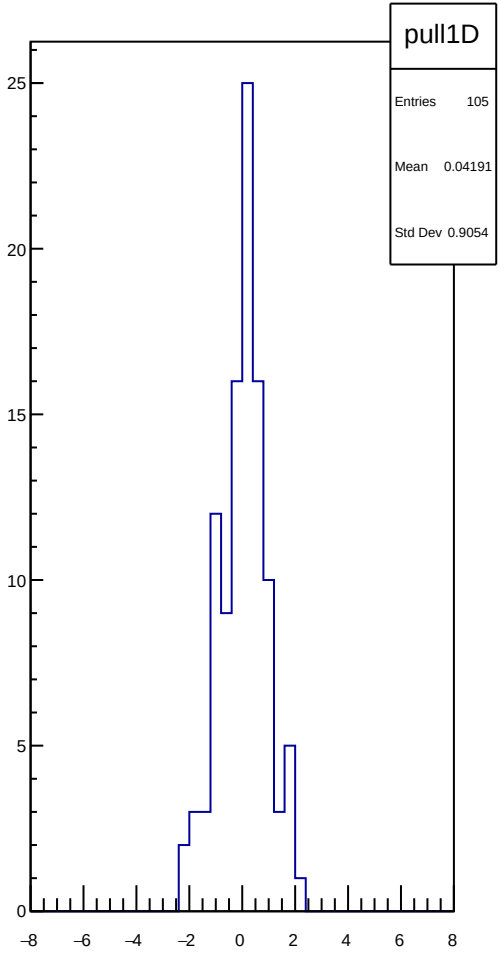

asym_sam_2468_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 116.8 / 104
p0 −0.1792 ± 0.04303
pull
Entries 105
Mean 168.6
Std Dev 0
pull1D
Entries 105
Mean −0.03511
Std Dev 1.054

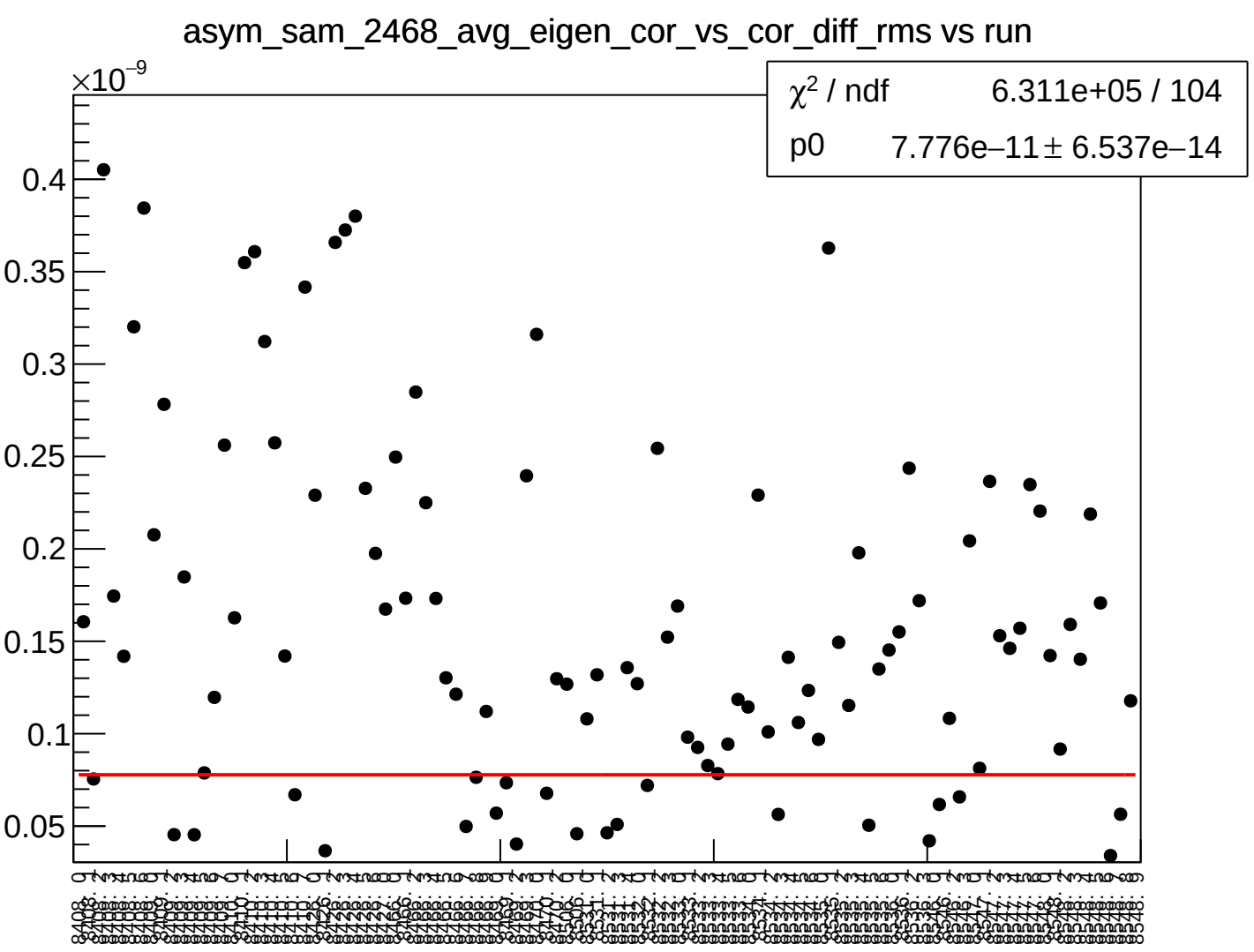

asym_sam_2468_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 1.336e+05 / 104
p0 42.08 ± 0.03042
80
70
60
50
40
30

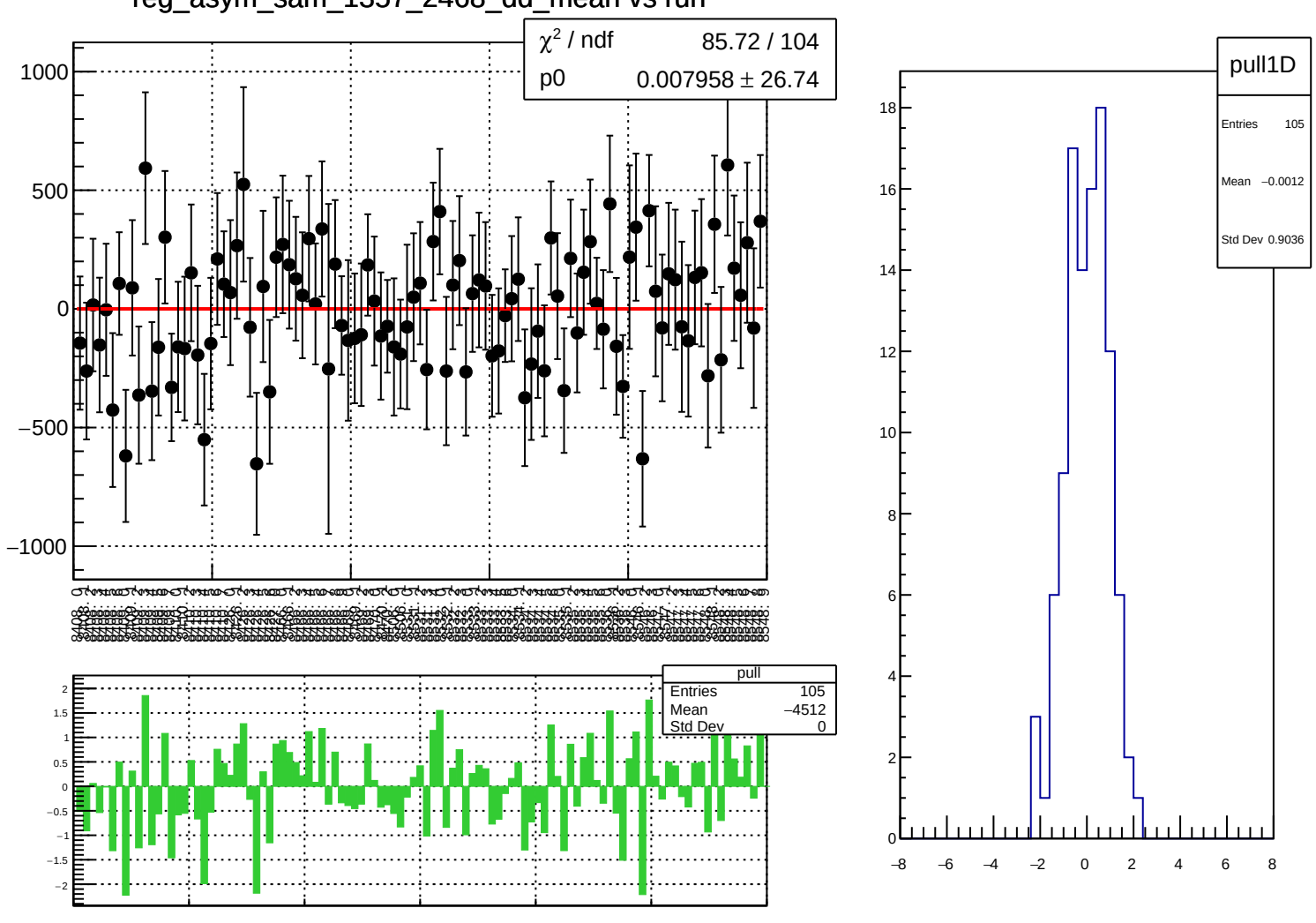

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 116.8 / 104
p0 −0.1792 ± 0.04303
pull
Entries 105
Mean 168.6
Std Dev 0
pull1D
Entries 105
Mean −0.03511
Std Dev 1.054

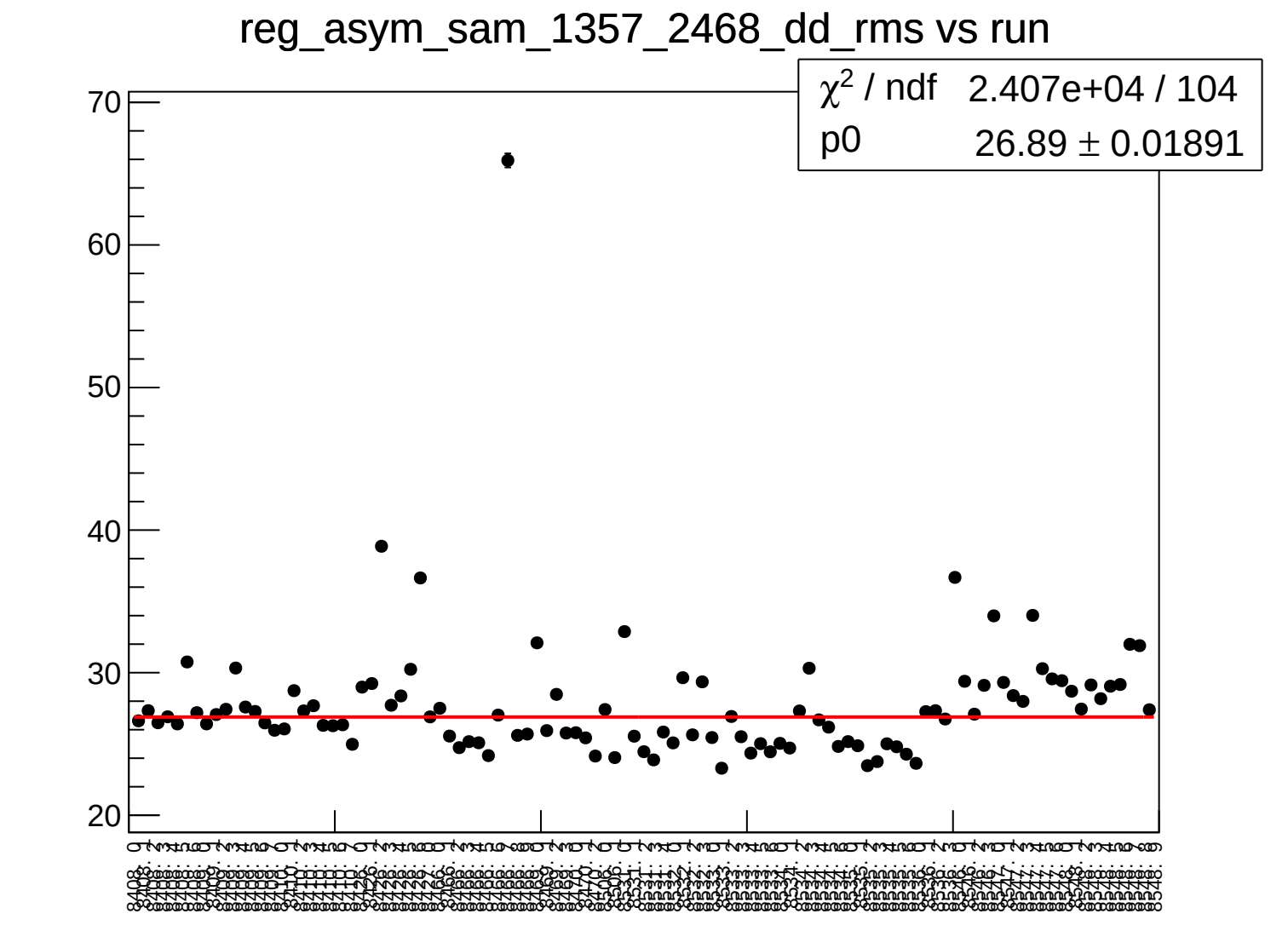

asym_sam_2468_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 1.336e+05 / 104
p0 42.08 ± 0.03042
80
70
60
50
40
30

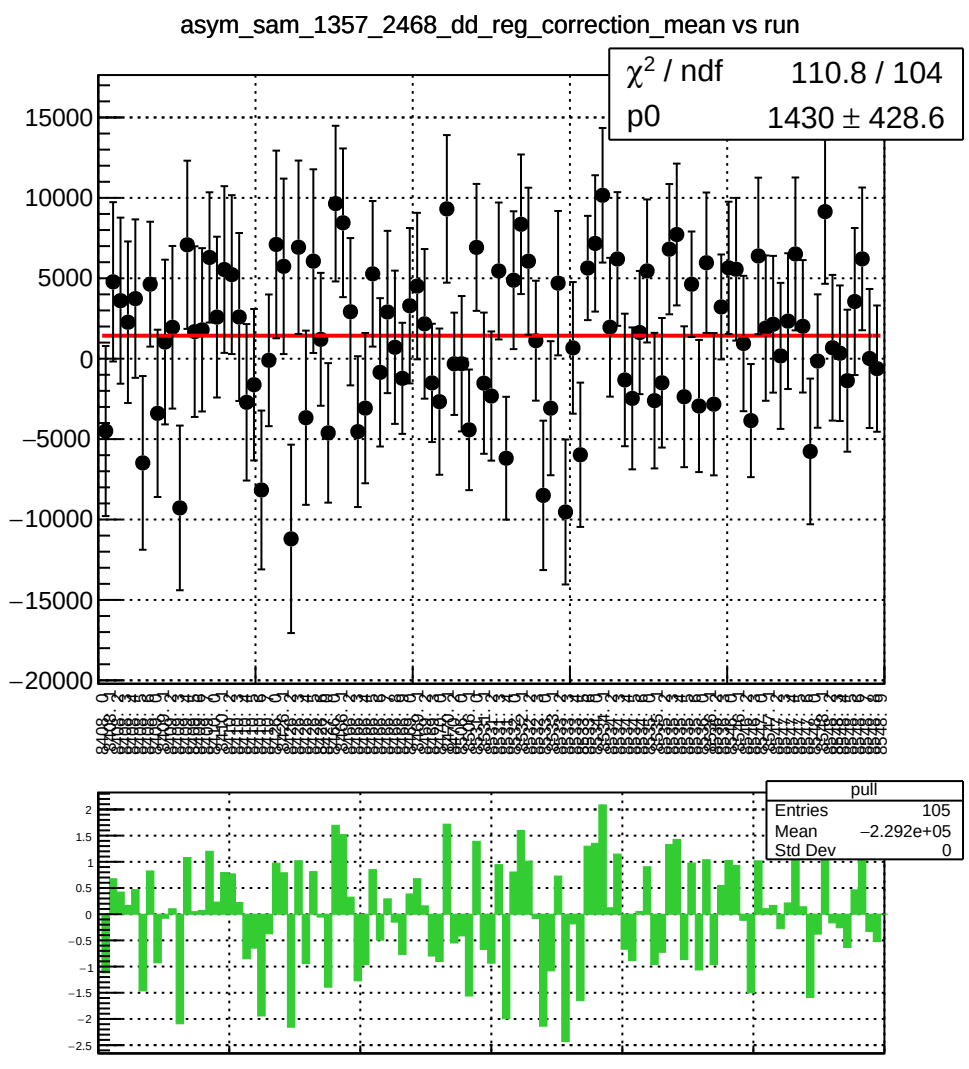

asym_sam_2468_avg_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 86.25 / 104
p0 −1.038e−14 ± 9.245e−14
pull
Entries 105
Mean 134
Std Dev 0

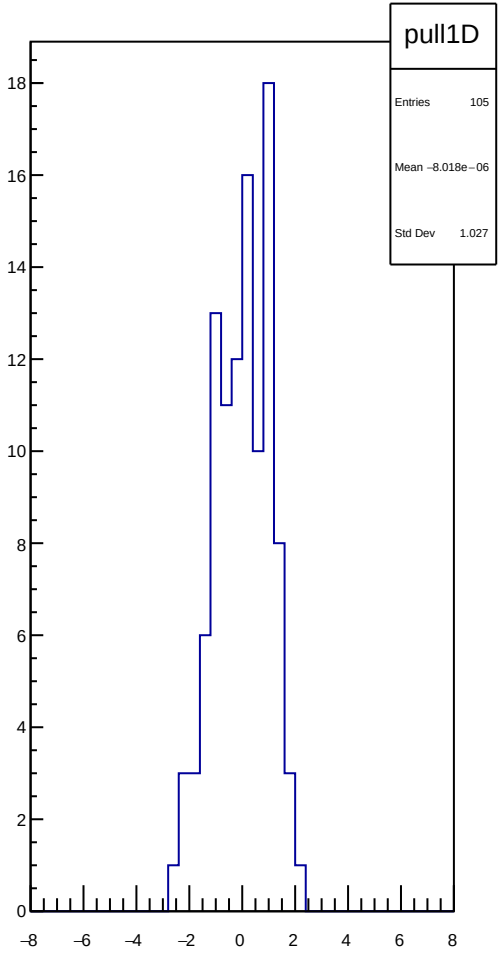

pull1D
Entries 105
Mean 0.04191
Std Dev 0.9054

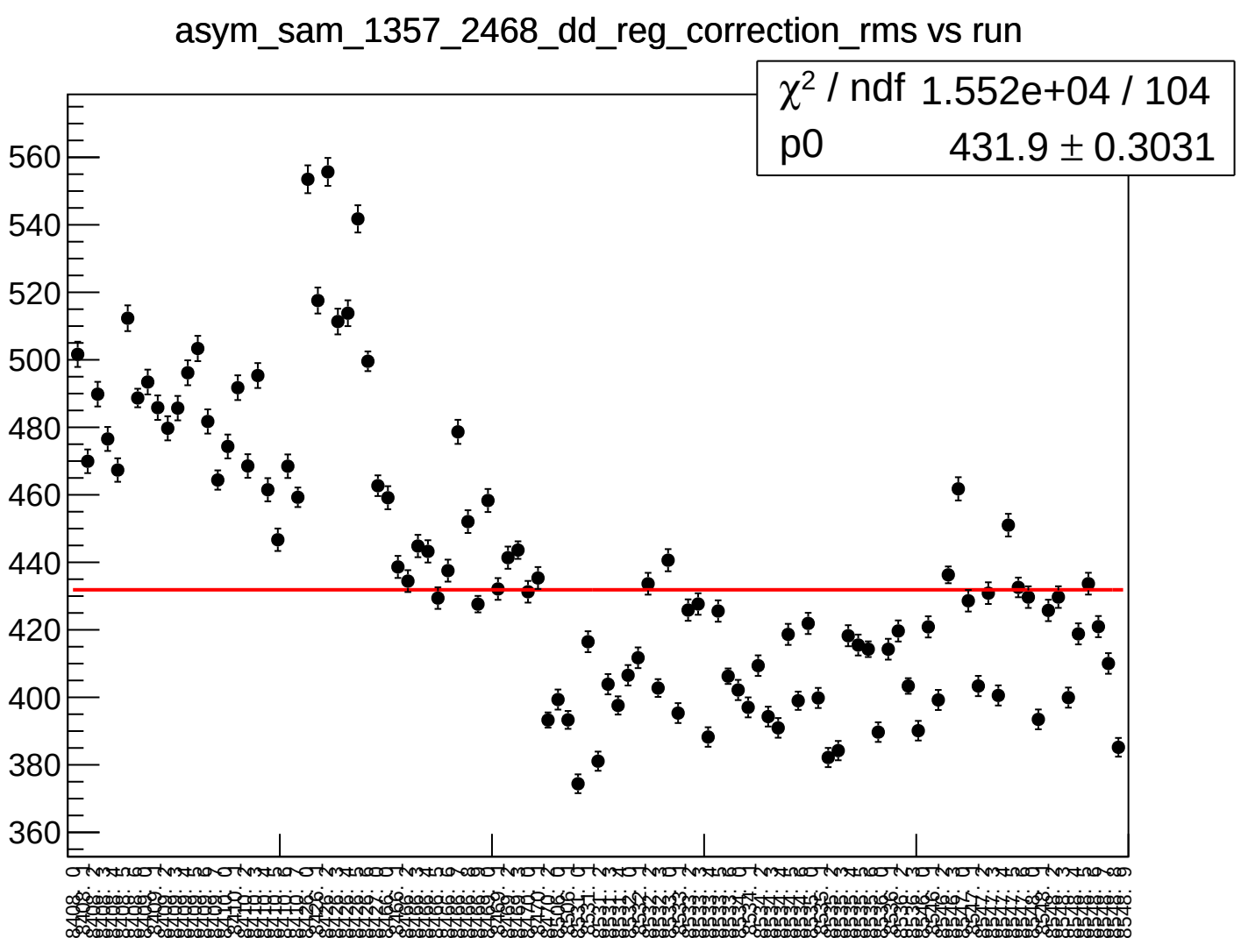

asym_sam_2468_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 6.311e+05 / 104
p0 7.776e−11 ± 6.537e−14
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

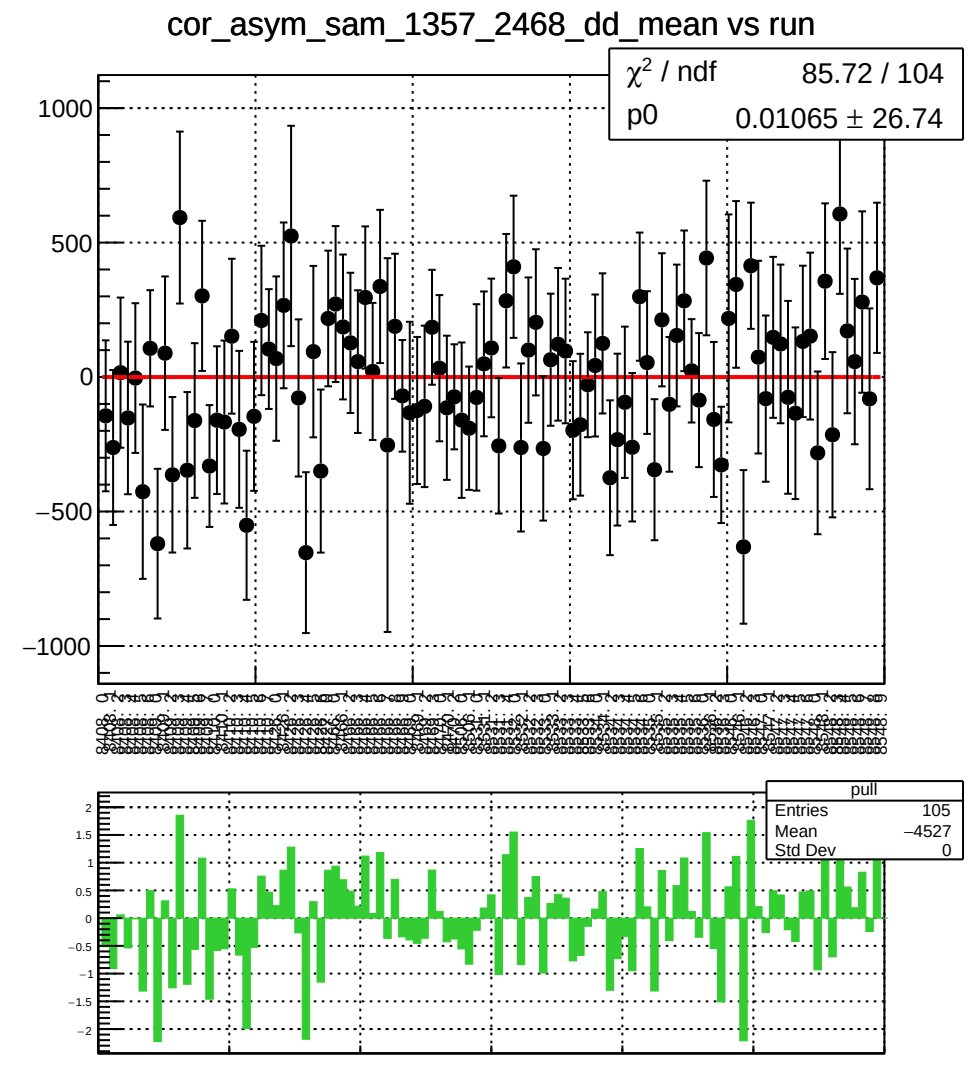

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 85.72 / 104
p0 0.007958 ± 26.74
1000
500
0
−500
−1000
pull
Entries 105
Mean −4512
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 105
Mean −0.0012
Std Dev 0.9036
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

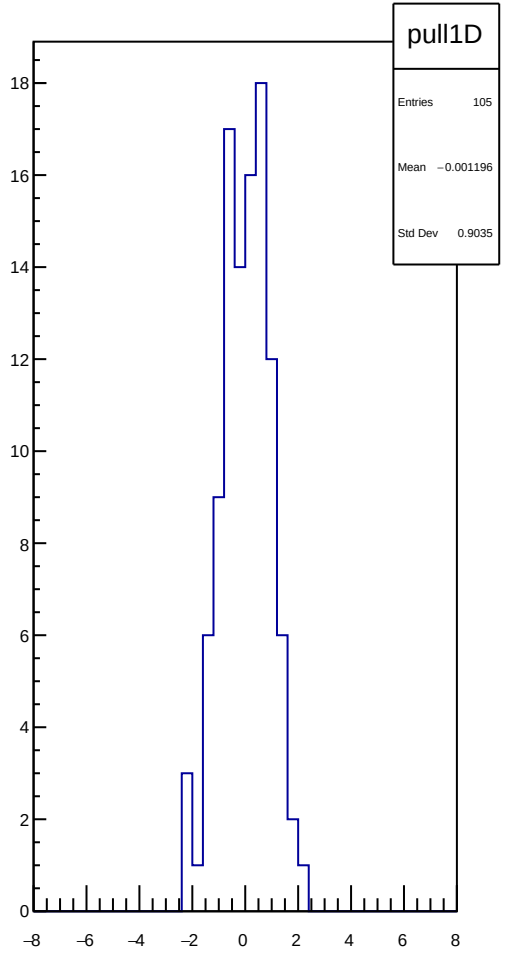

reg_asym_sam_1357_2468_dd_rms vs run
χ^2 / ndf 2.407e+04 / 104
p0 26.89 ± 0.01891
70
60
50
40
30
20

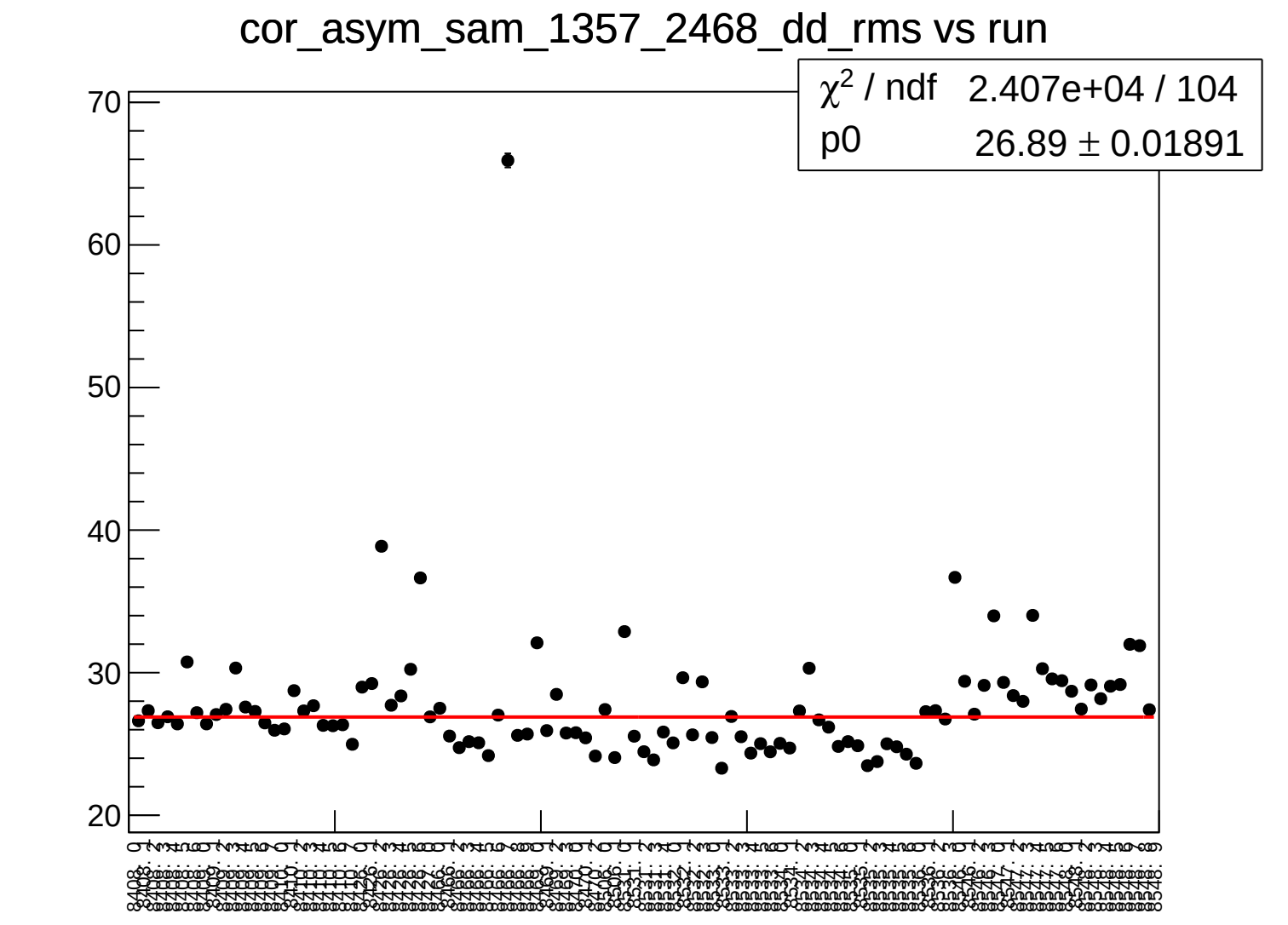

asym_sam_1357_2468_dd_reg_correction_mean vs run
χ² / ndf 110.8 / 104
p0 1430 ± 428.6
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 105
Mean −2.292e+05
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

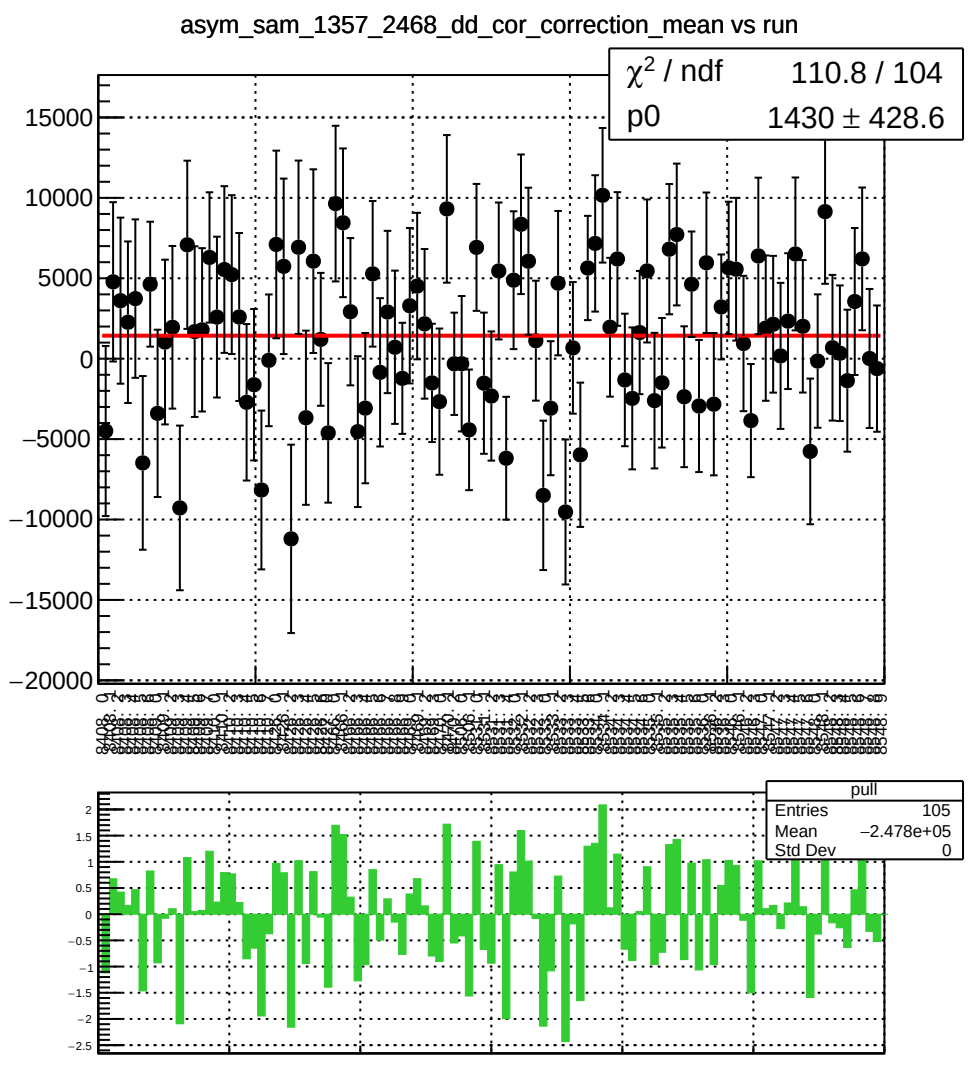

pull1D
Entries 105
Mean −8.018e−06
Std Dev 1.027
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

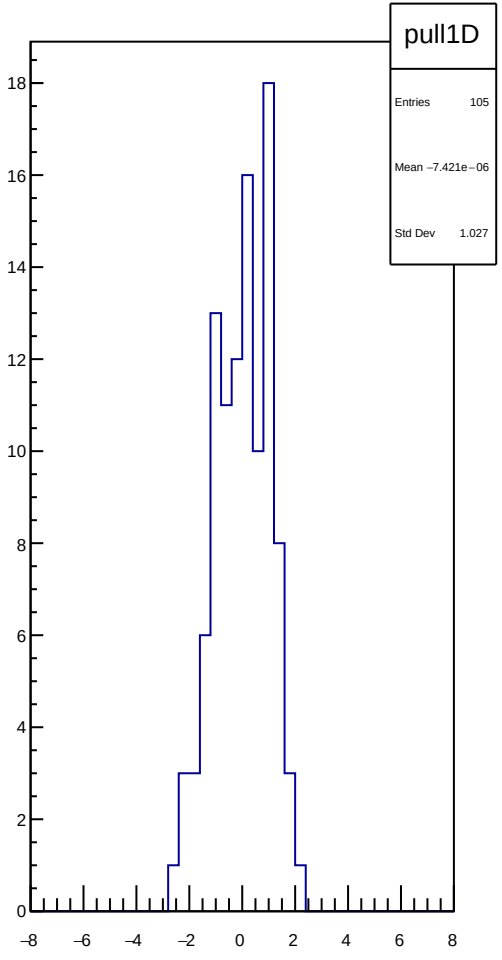

asym_sam_1357_2468_dd_reg_correction_rms vs run
χ² / ndf 1.552e+04 / 104
p0 431.9 ± 0.3031
560
540
520
500
480
460
440
420
400
380
360

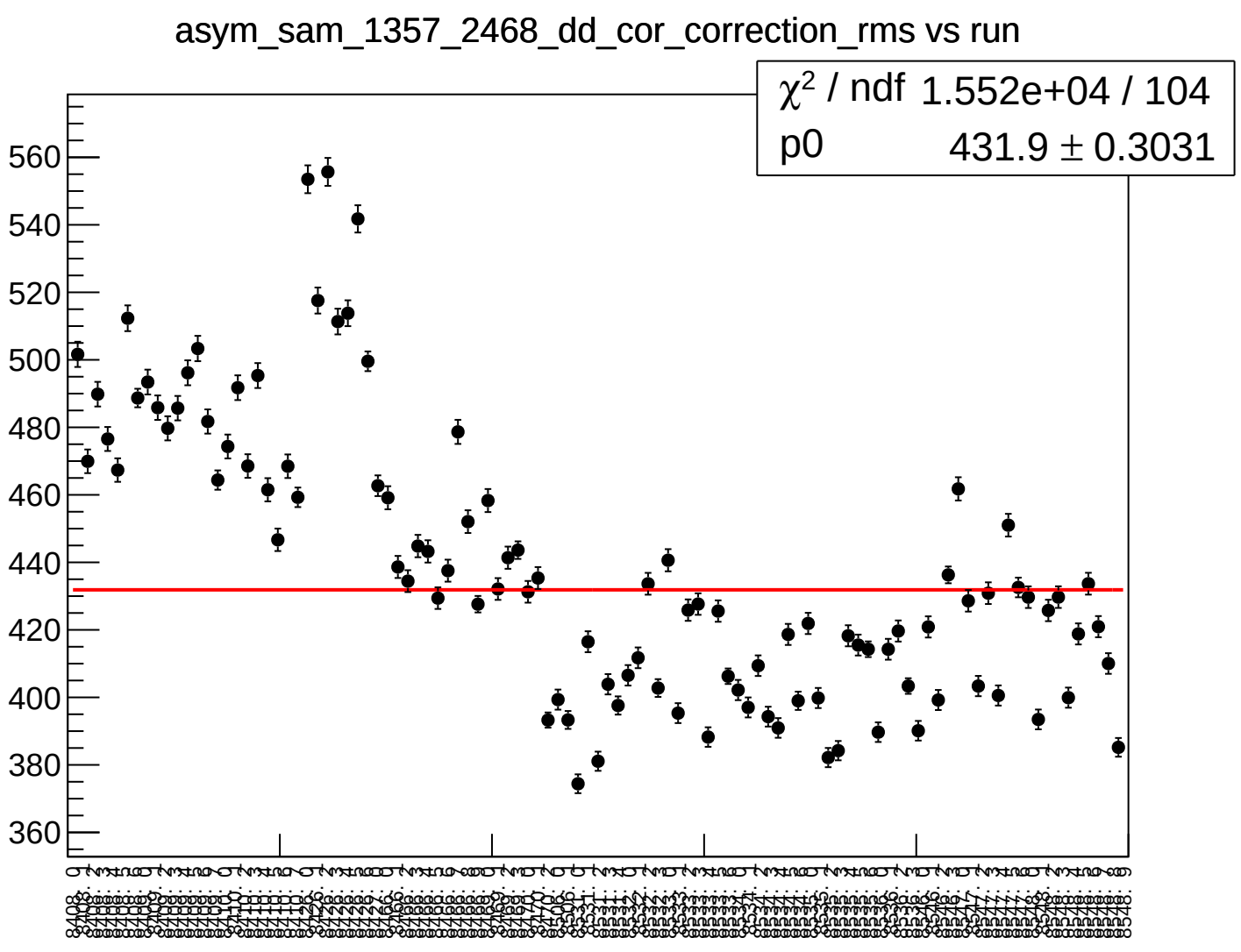

cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 85.72 / 104
p0 0.01065 ± 26.74
1000
500
0
−500
−1000
pull
Entries 105
Mean −4527
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

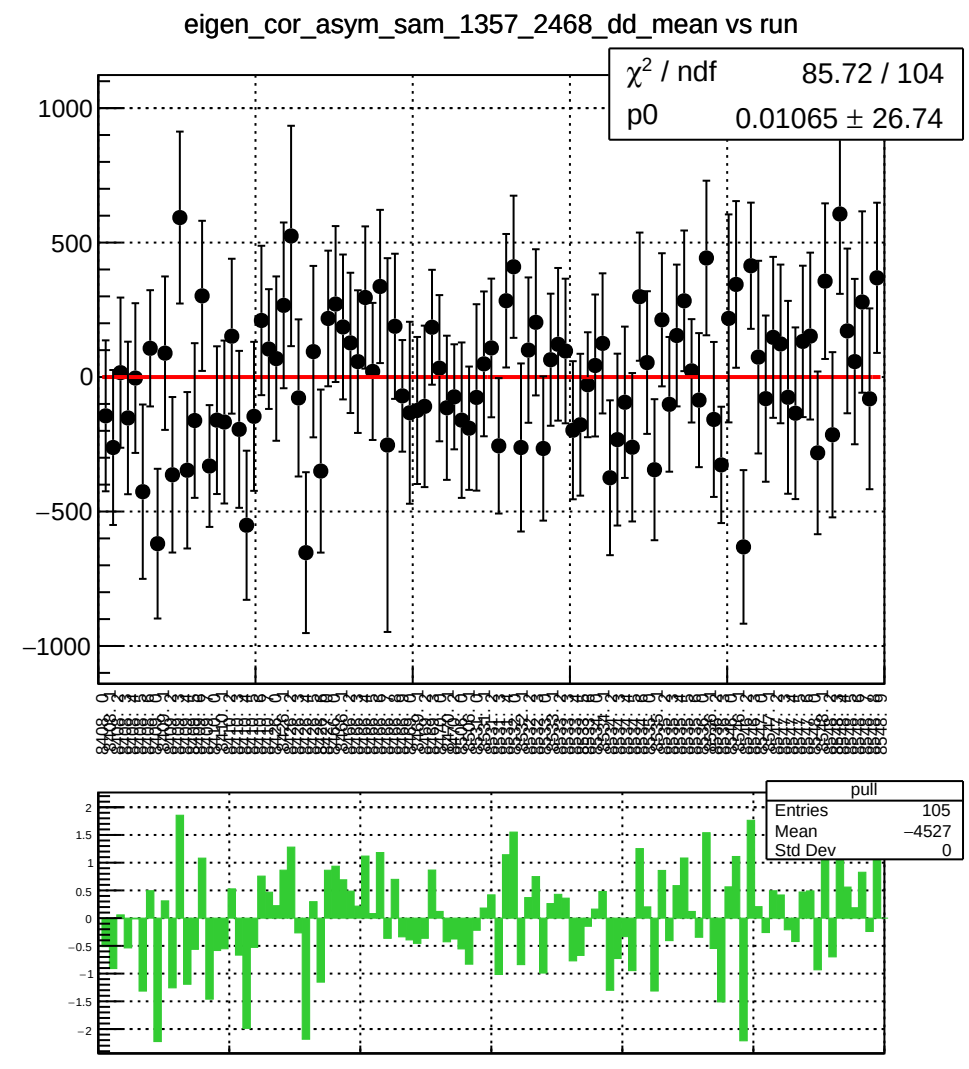

pull1D
Entries 105
Mean −0.001196
Std Dev 0.9035
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

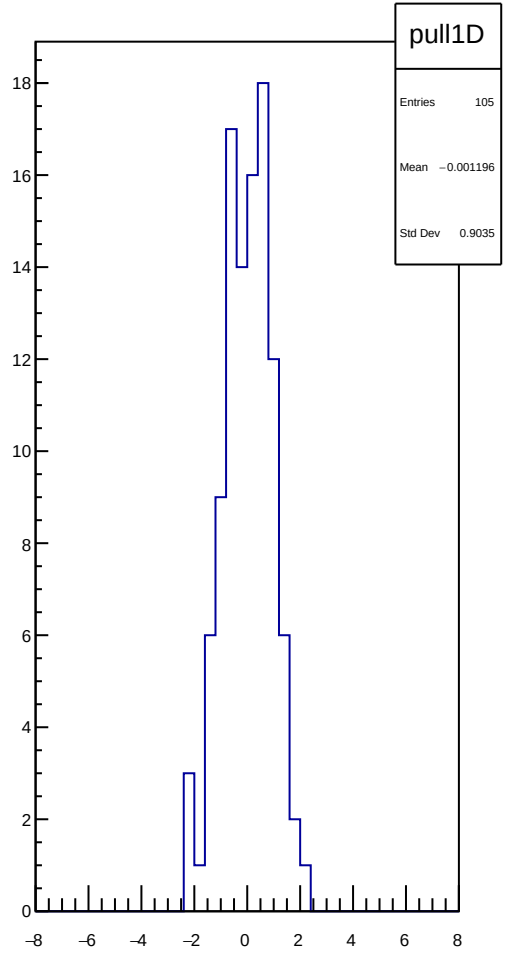

cor_asym_sam_1357_2468_dd_rms vs run
χ^2 / ndf 2.407e+04 / 104
p0 26.89 ± 0.01891
70
60
50
40
30
20

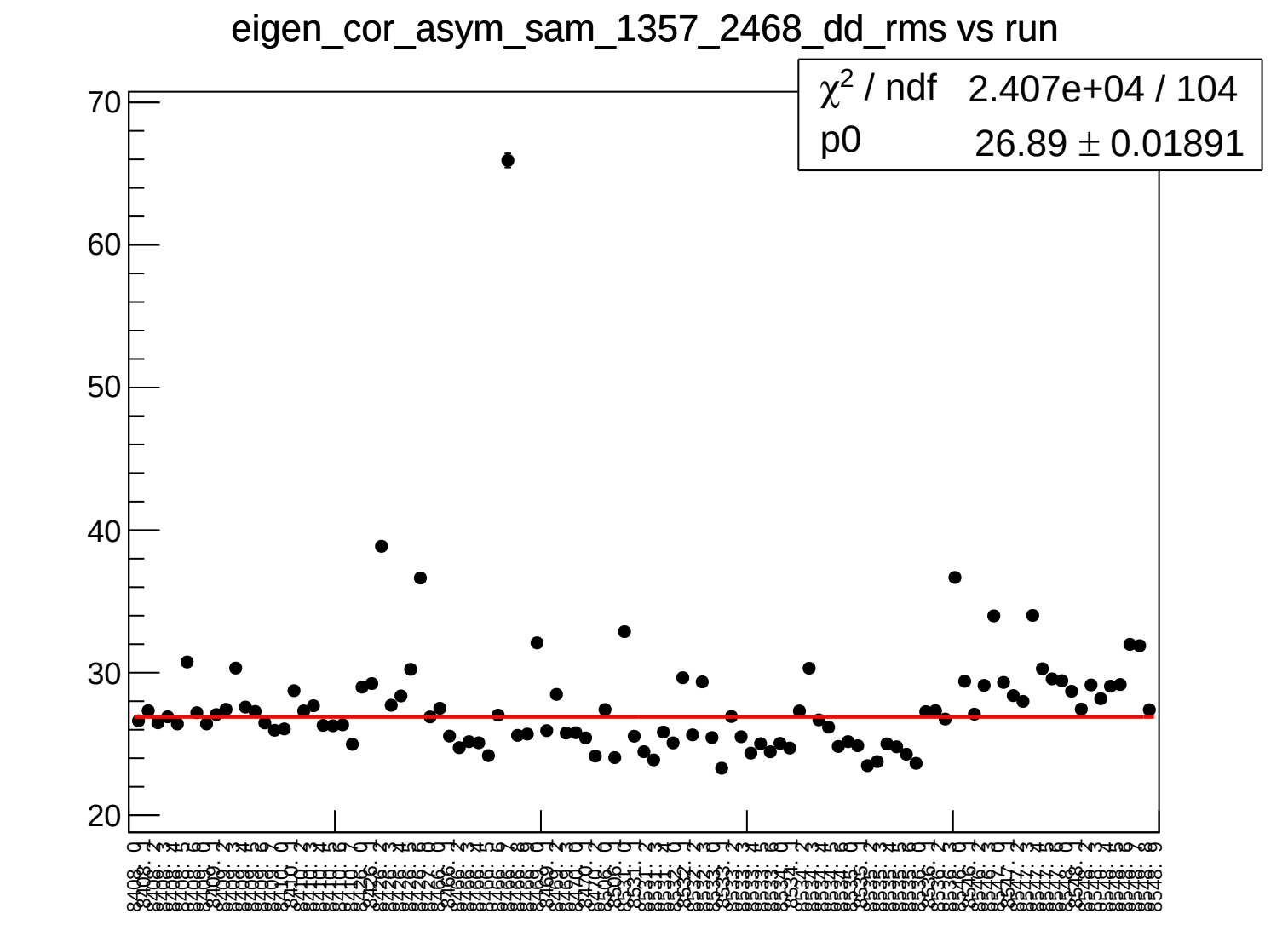

asym_sam_1357_2468_dd_cor_correction_mean vs run
χ² / ndf 110.8 / 104
p0 1430 ± 428.6
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 105
Mean −2.478e+05
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

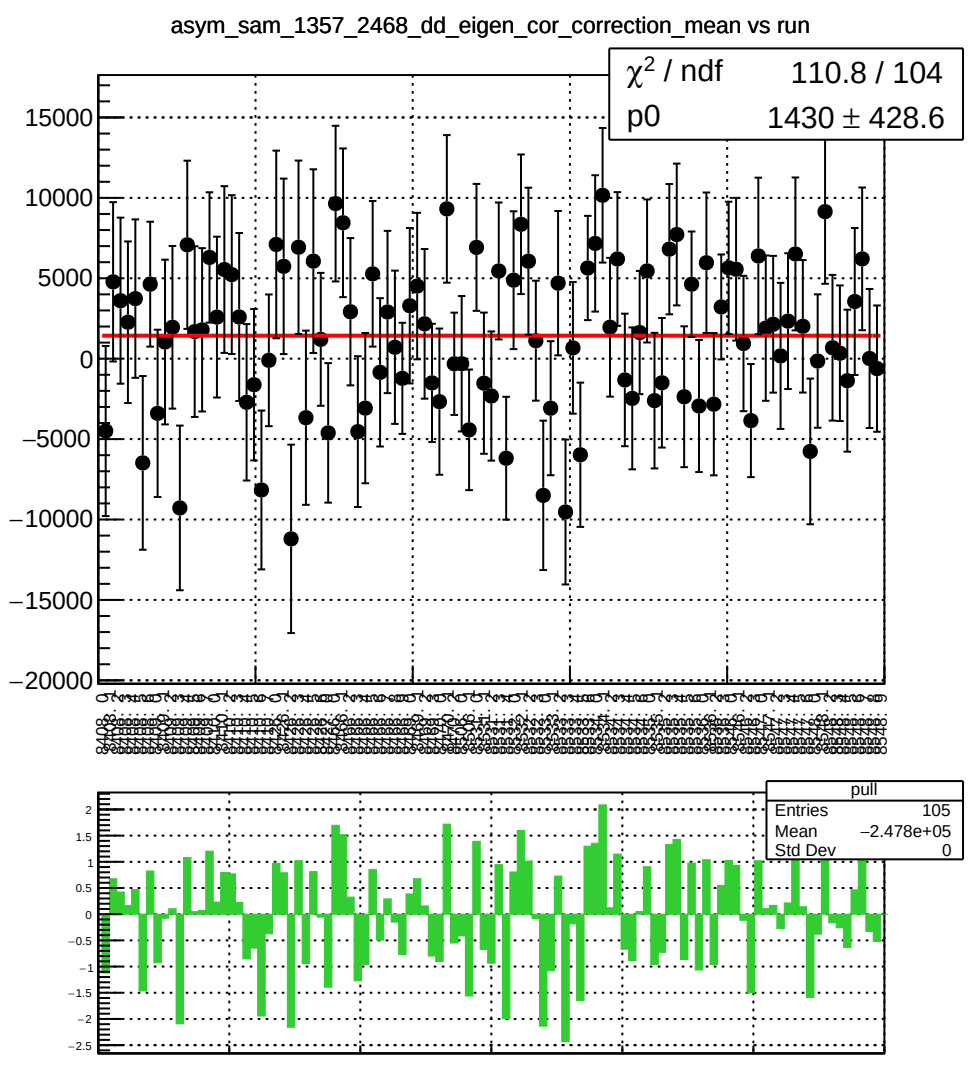

pull1D
Entries 105
Mean −7.421e−06
Std Dev 1.027
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

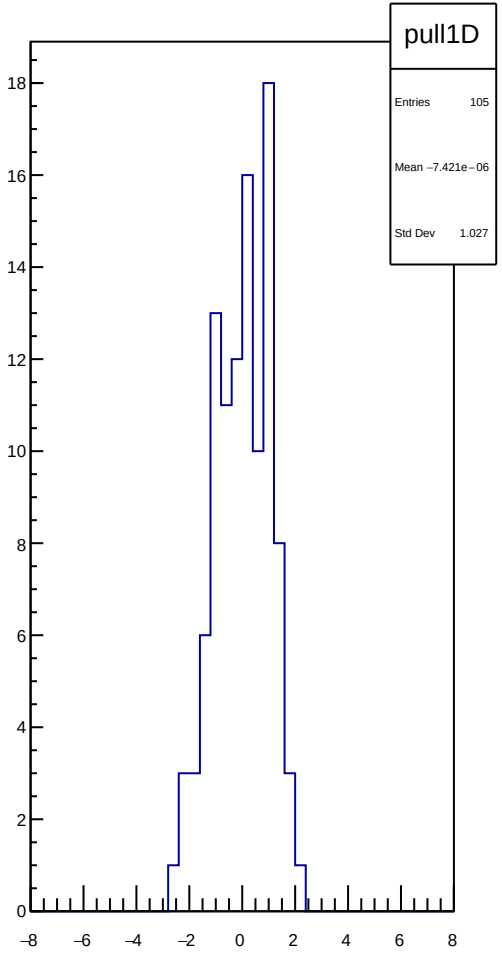

asym_sam_1357_2468_dd_cor_correction_rms vs run
χ² / ndf 1.552e+04 / 104
p0 431.9 ± 0.3031
560
540
520
500
480
460
440
420
400
380
360

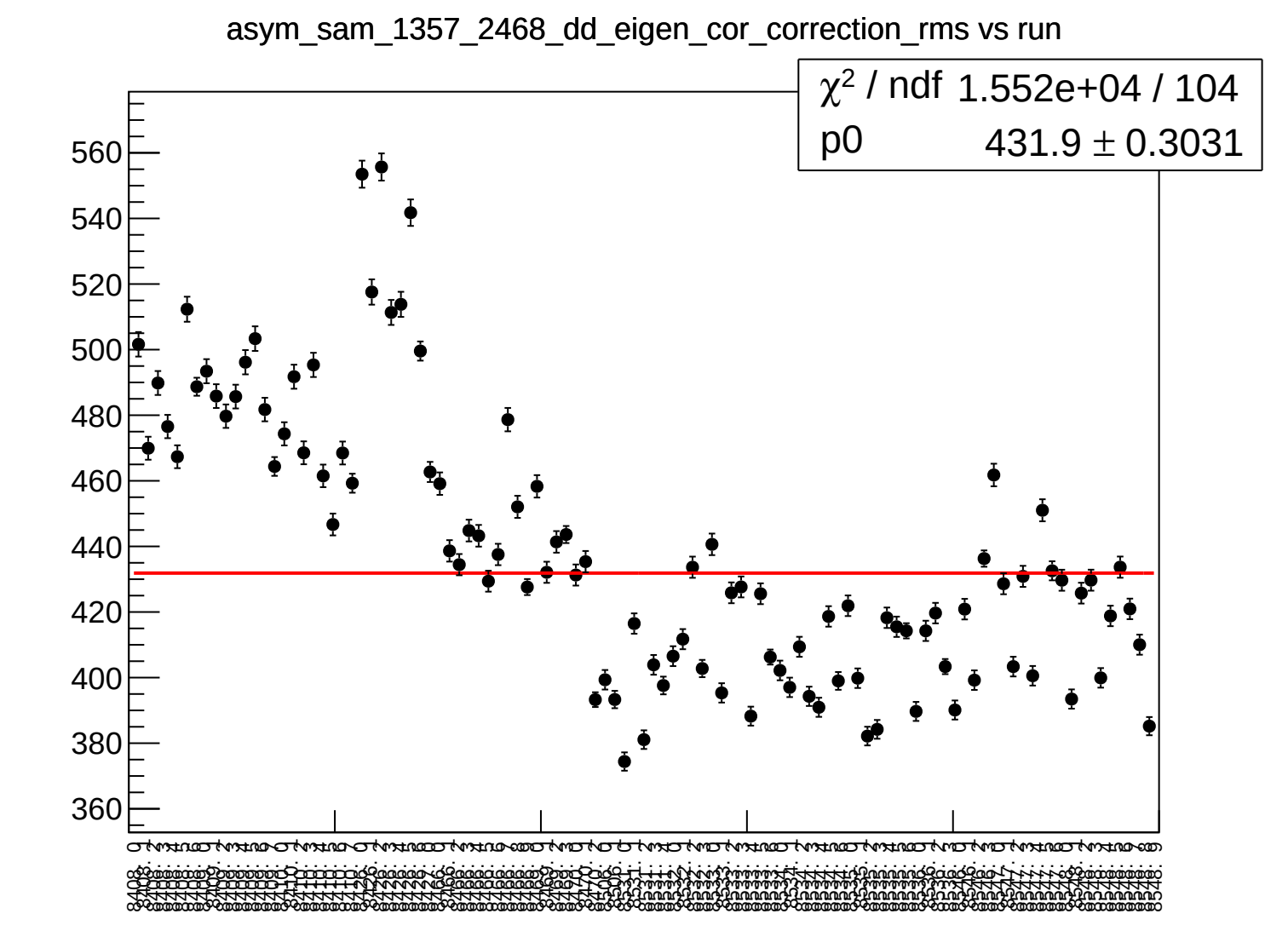

eigen_cor_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 85.72 / 104
p0 0.01065 ± 26.74
1000
500
0
−500
−1000
pull
Entries 105
Mean −4527
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

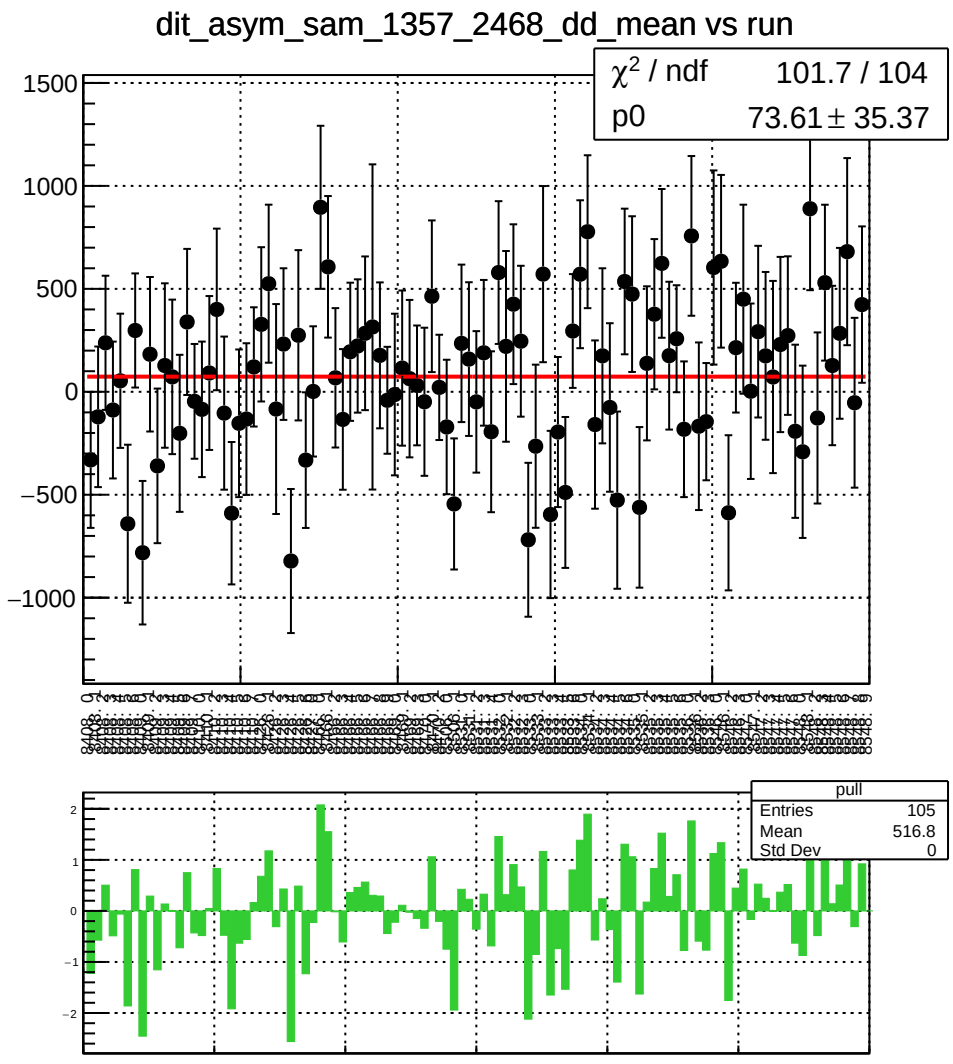

pull1D
Entries 105
Mean −0.001196
Std Dev 0.9035
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

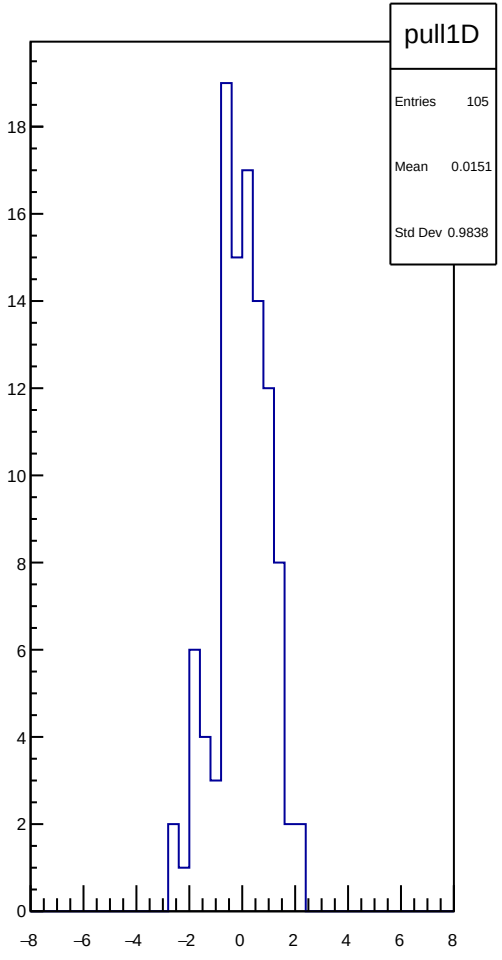

eigen_cor_asym_sam_1357_2468_dd_rms vs run
χ^2 / ndf 2.407e+04 / 104
p0 26.89 ± 0.01891
70
60
50
40
30
20

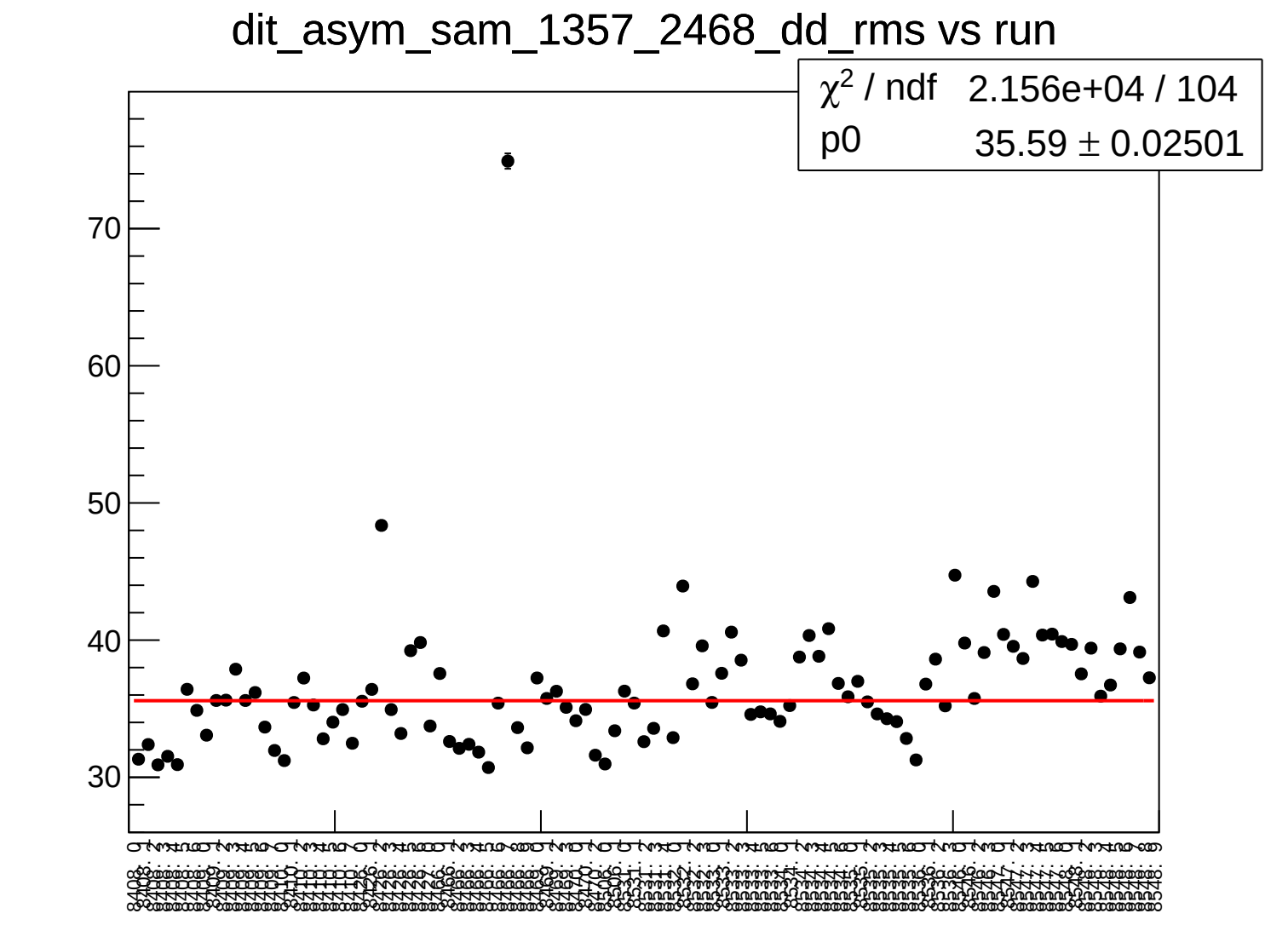

asym_sam_1357_2468_dd_eigen_cor_correction_mean vs run
χ² / ndf 110.8 / 104
p0 1430 ± 428.6
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 105
Mean −2.478e+05
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

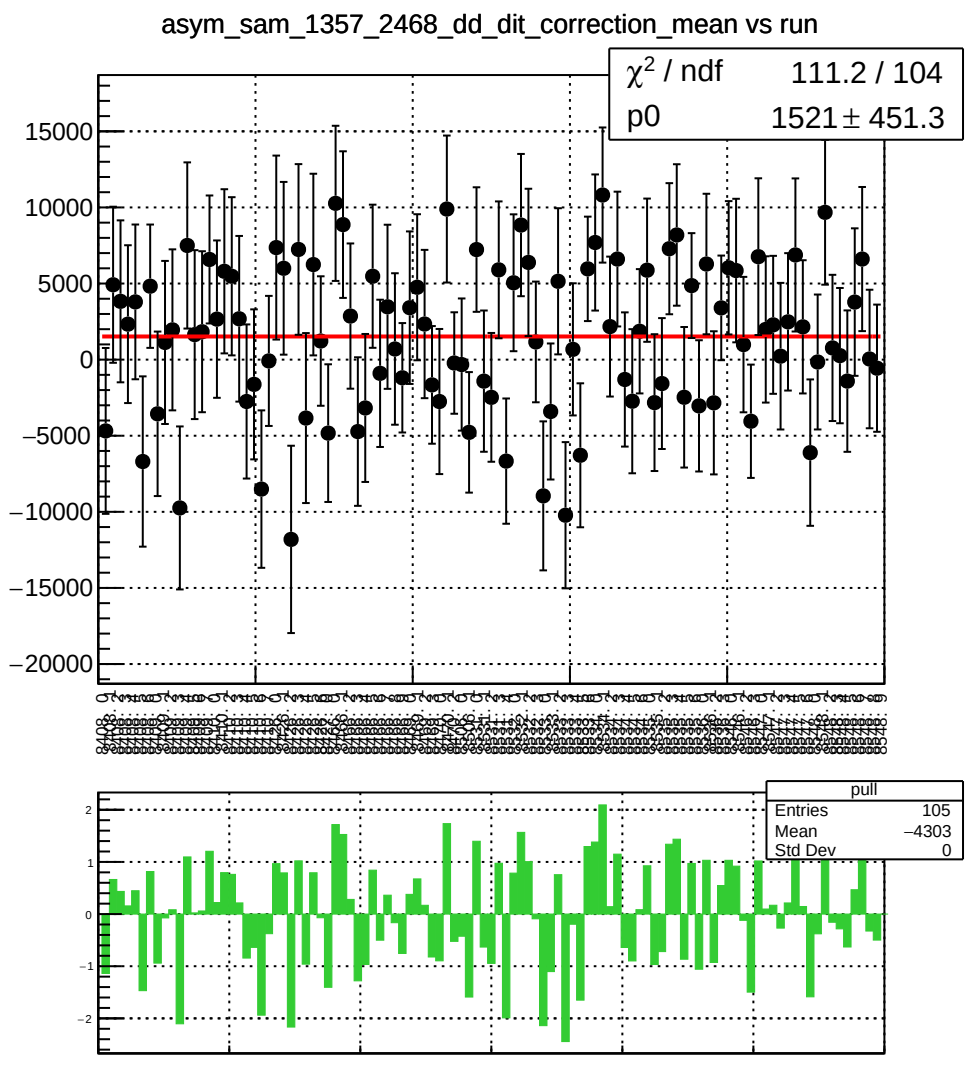

pull1D
Entries 105
Mean −7.421e−06
Std Dev 1.027
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

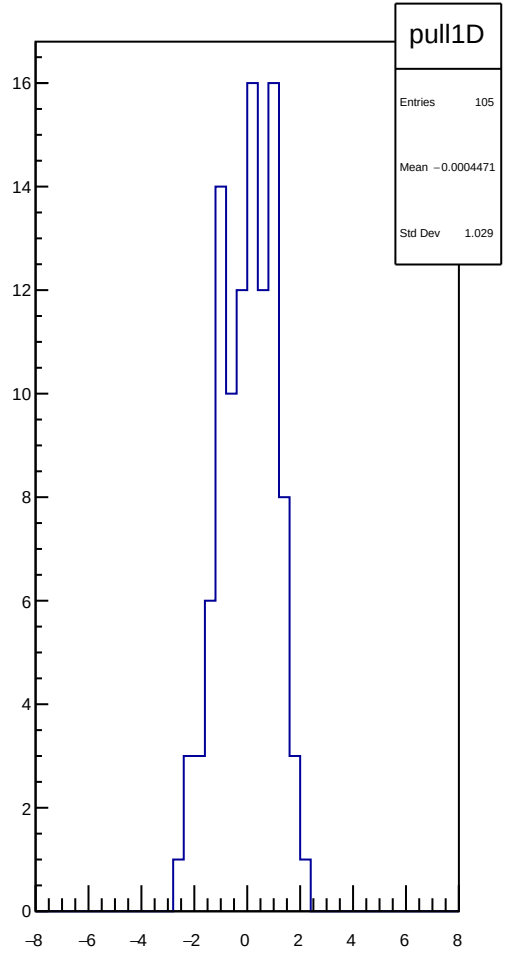

asym_sam_1357_2468_dd_eigen_cor_correction_rms vs run
χ² / ndf 1.552e+04 / 104
p0 431.9 ± 0.3031
560
540
520
500
480
460
440
420
400
380
360

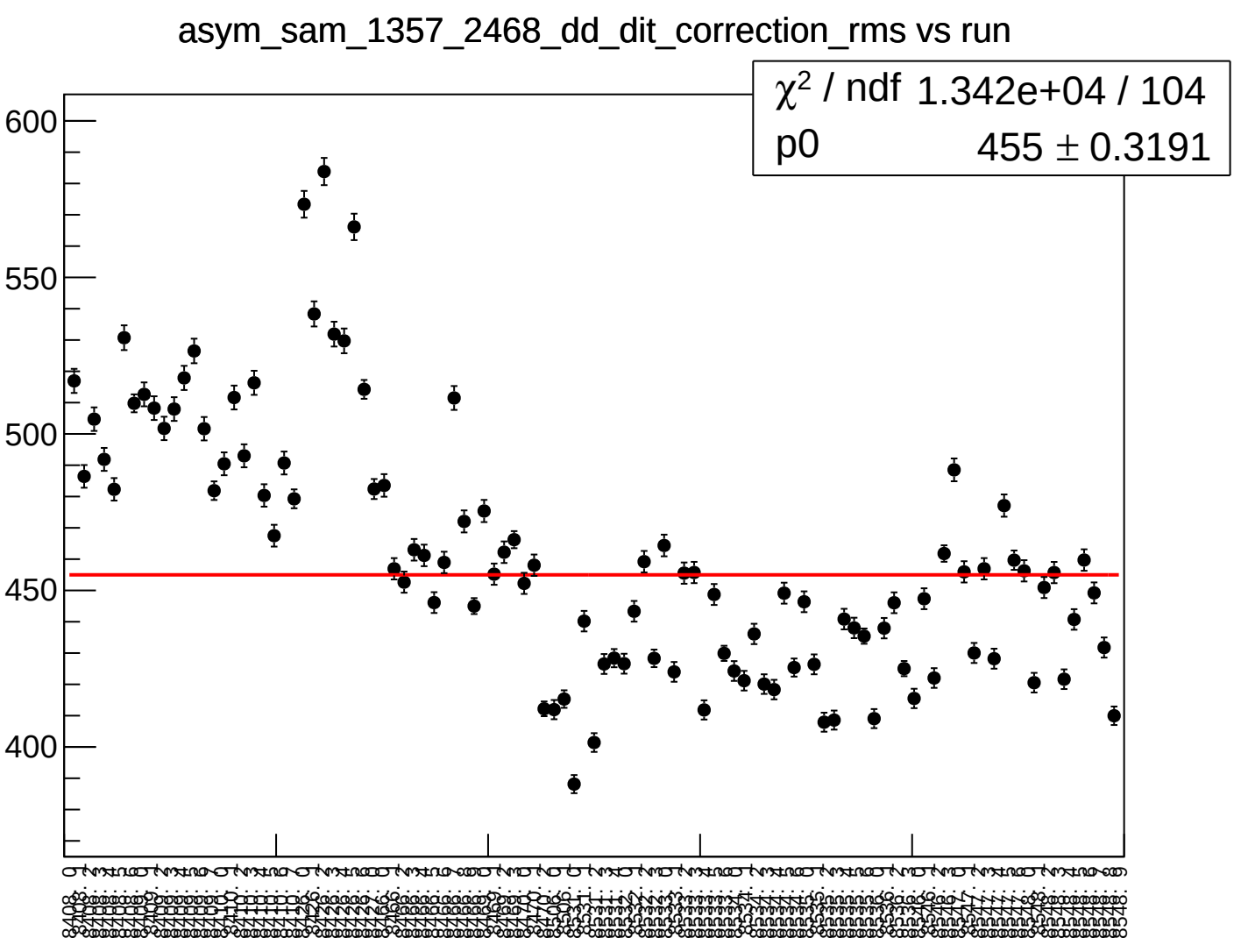

dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 101.7 / 104
p0 73.61 ± 35.37
1500
1000
500
0
−500
−1000
pull
Entries 105
Mean 516.8
Std Dev 0
2
1
0
−1
−2

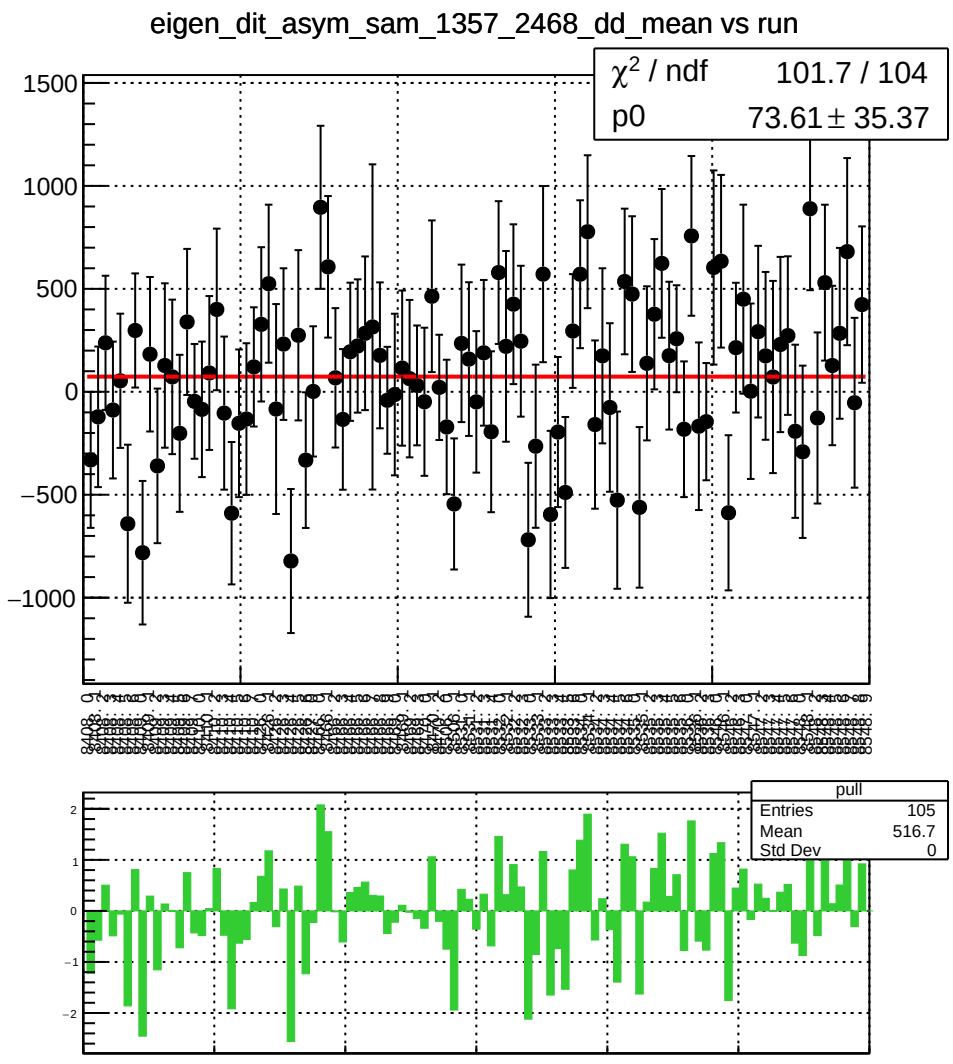

pull1D
Entries 105
Mean 0.0151
Std Dev 0.9838
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

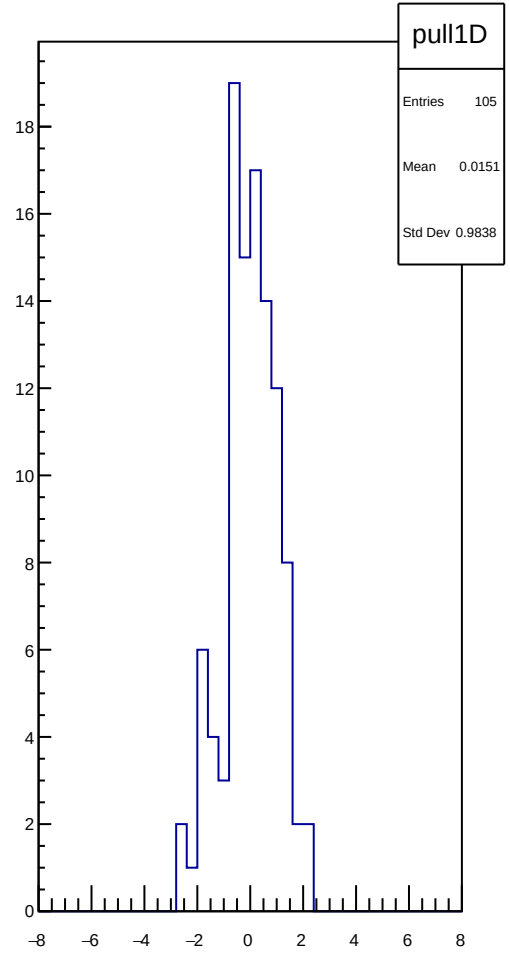

dit_asym_sam_1357_2468_dd_rms vs run
χ^2 / ndf 2.156e+04 / 104
p0 35.59 ± 0.02501
70
60
50
40
30

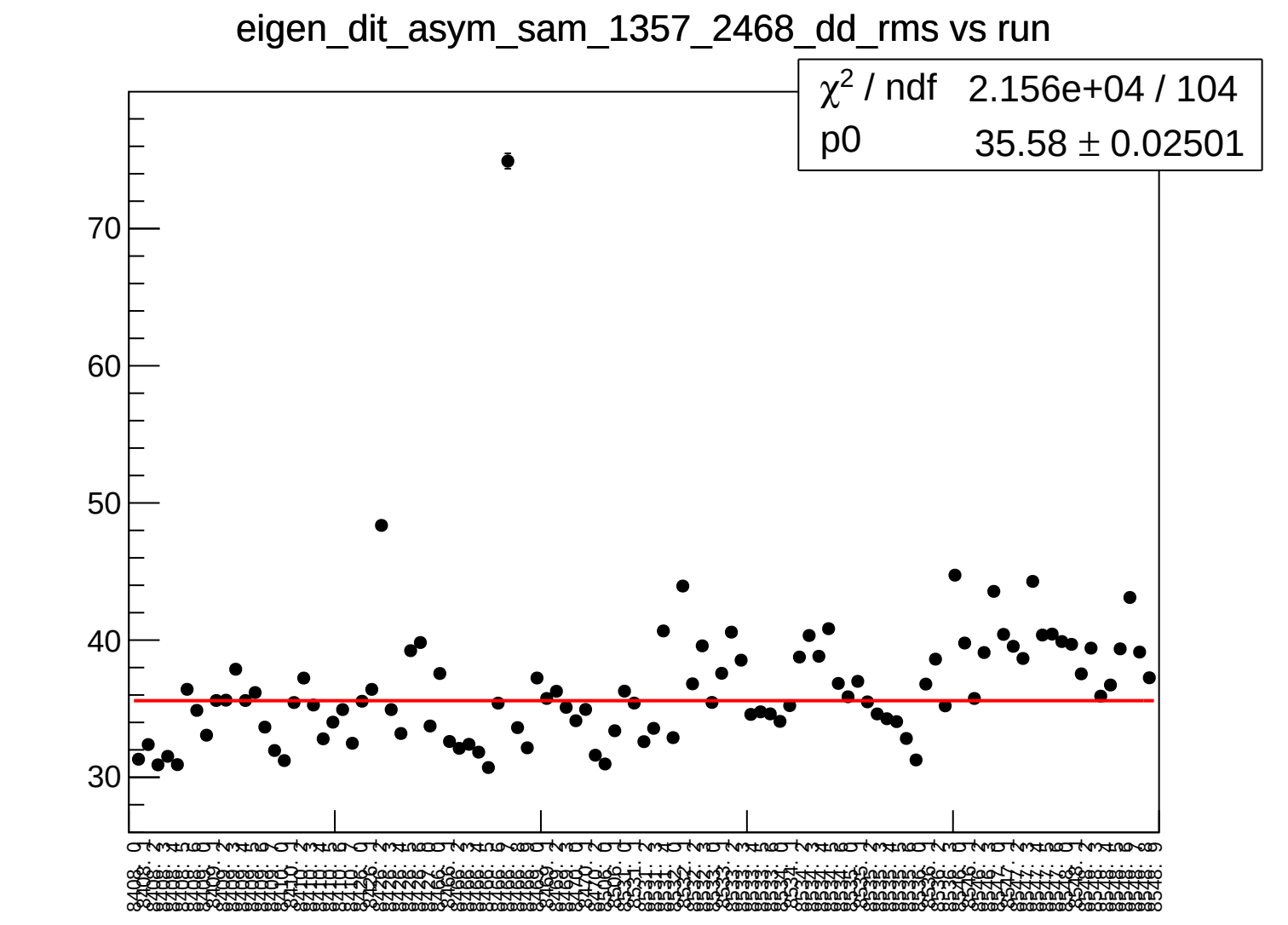

asym_sam_1357_2468_dd_dit_correction_mean vs run
χ² / ndf 111.2 / 104
p0 1521 ± 451.3
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 105
Mean −4303
Std Dev 0
2
1
0
−1
−2

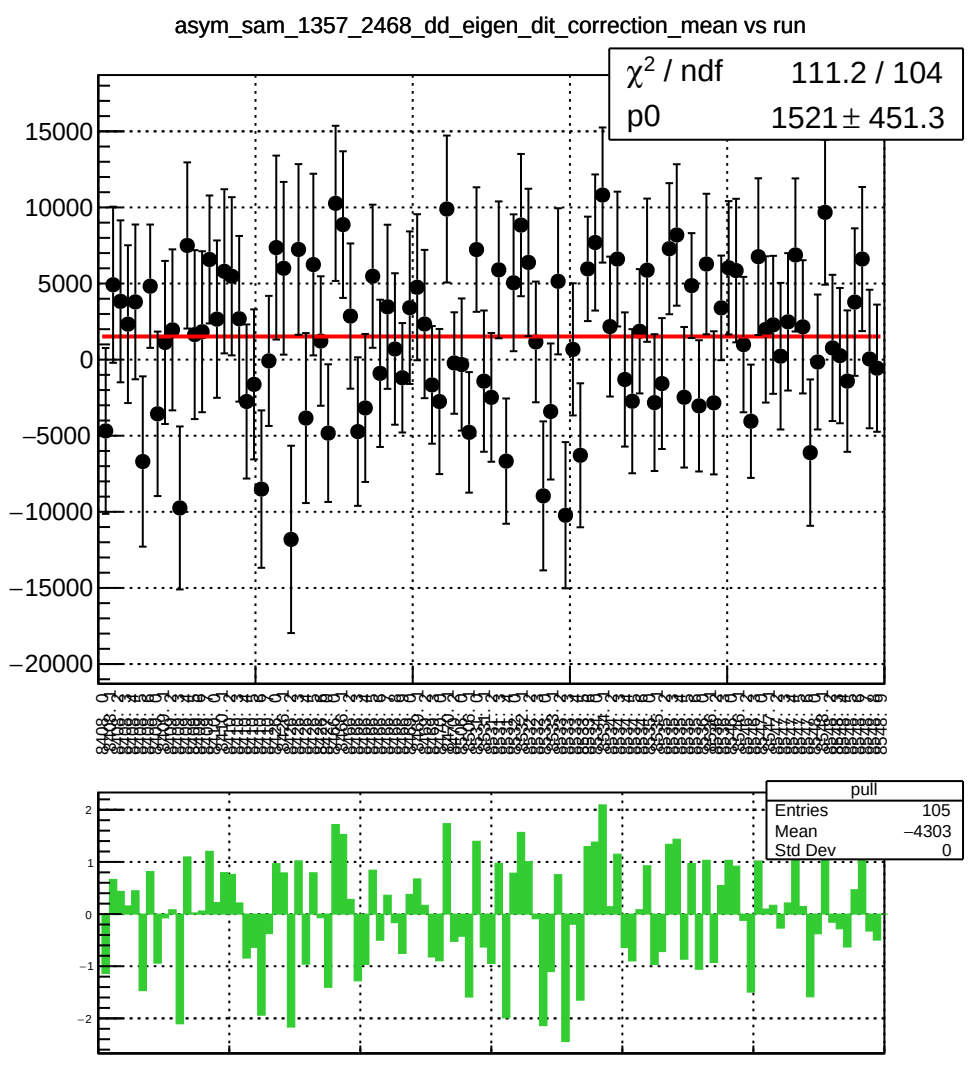

pull1D
Entries 105
Mean −0.0004471
Std Dev 1.029
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

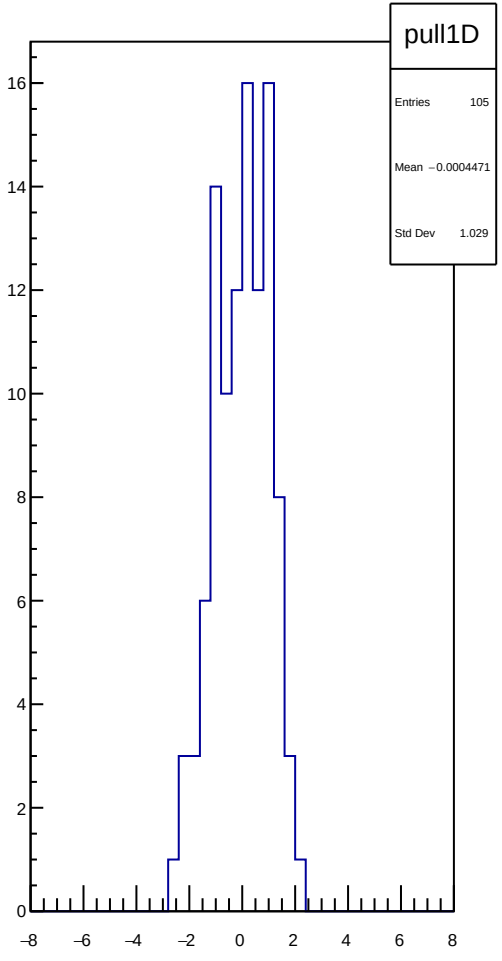

asym_sam_1357_2468_dd_dit_correction_rms vs run
χ^2 / ndf 1.342e+04 / 104
p0 455 ± 0.3191
600
550
500
450
400

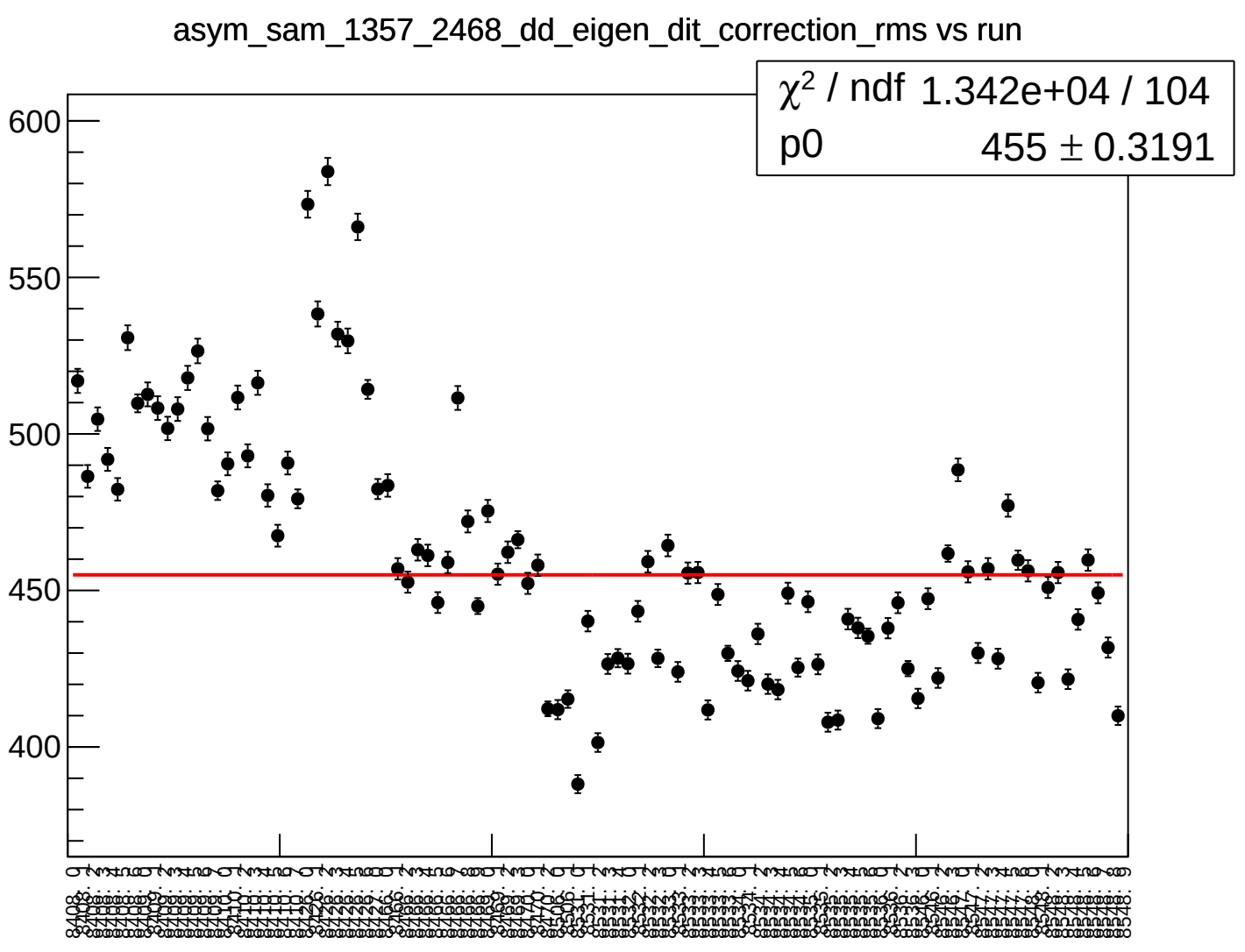

eigen_dit_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 101.7 / 104
p0 73.61 ± 35.37
1500
1000
500
0
−500
−1000
pull
Entries 105
Mean 516.7
Std Dev 0
2
1
0
−1
−2

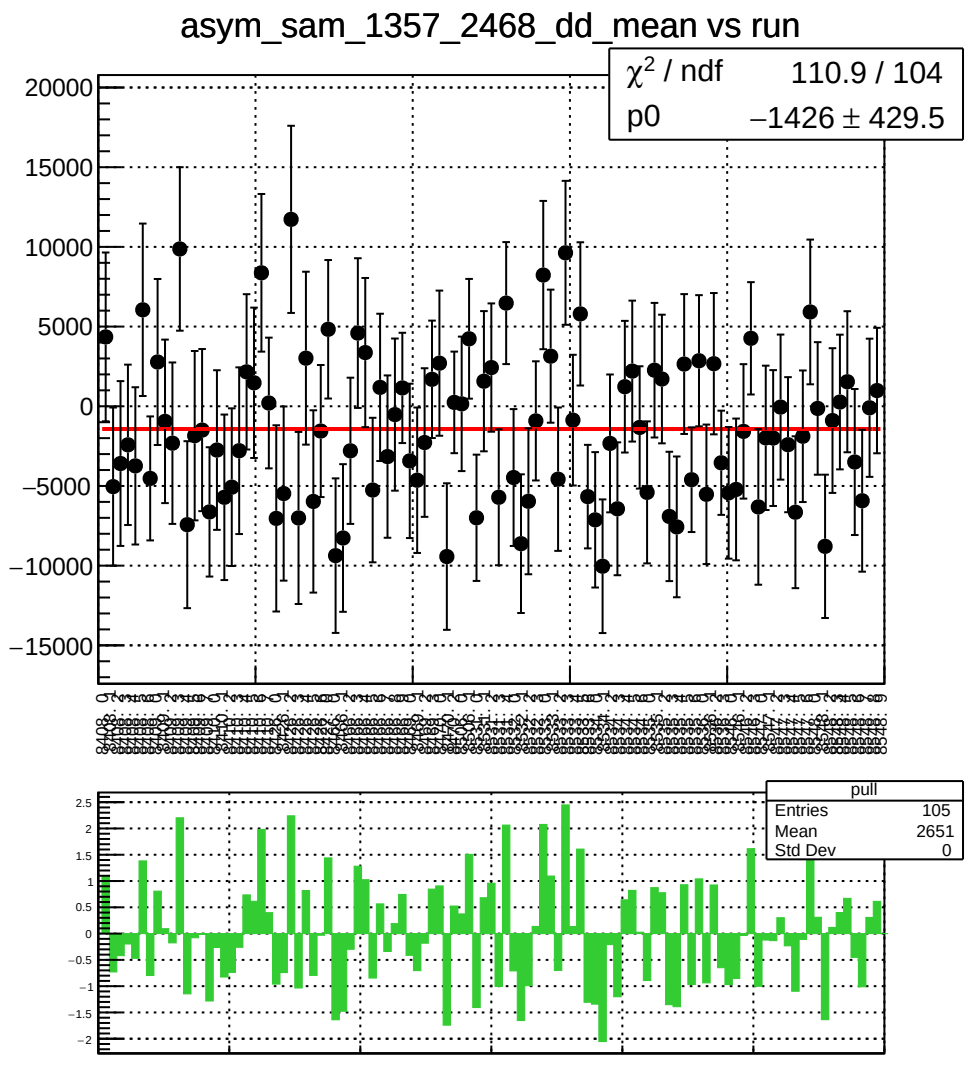

pull1D
Entries 105
Mean 0.0151
Std Dev 0.9838
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

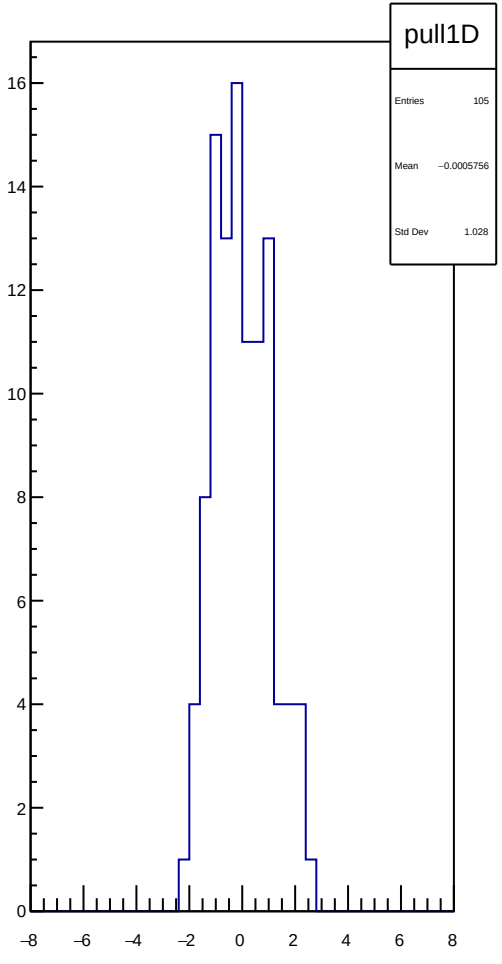

eigen_dit_asym_sam_1357_2468_dd_rms vs run
χ^2 / ndf 2.156e+04 / 104
p0 35.58 ± 0.02501
70
60
50
40
30

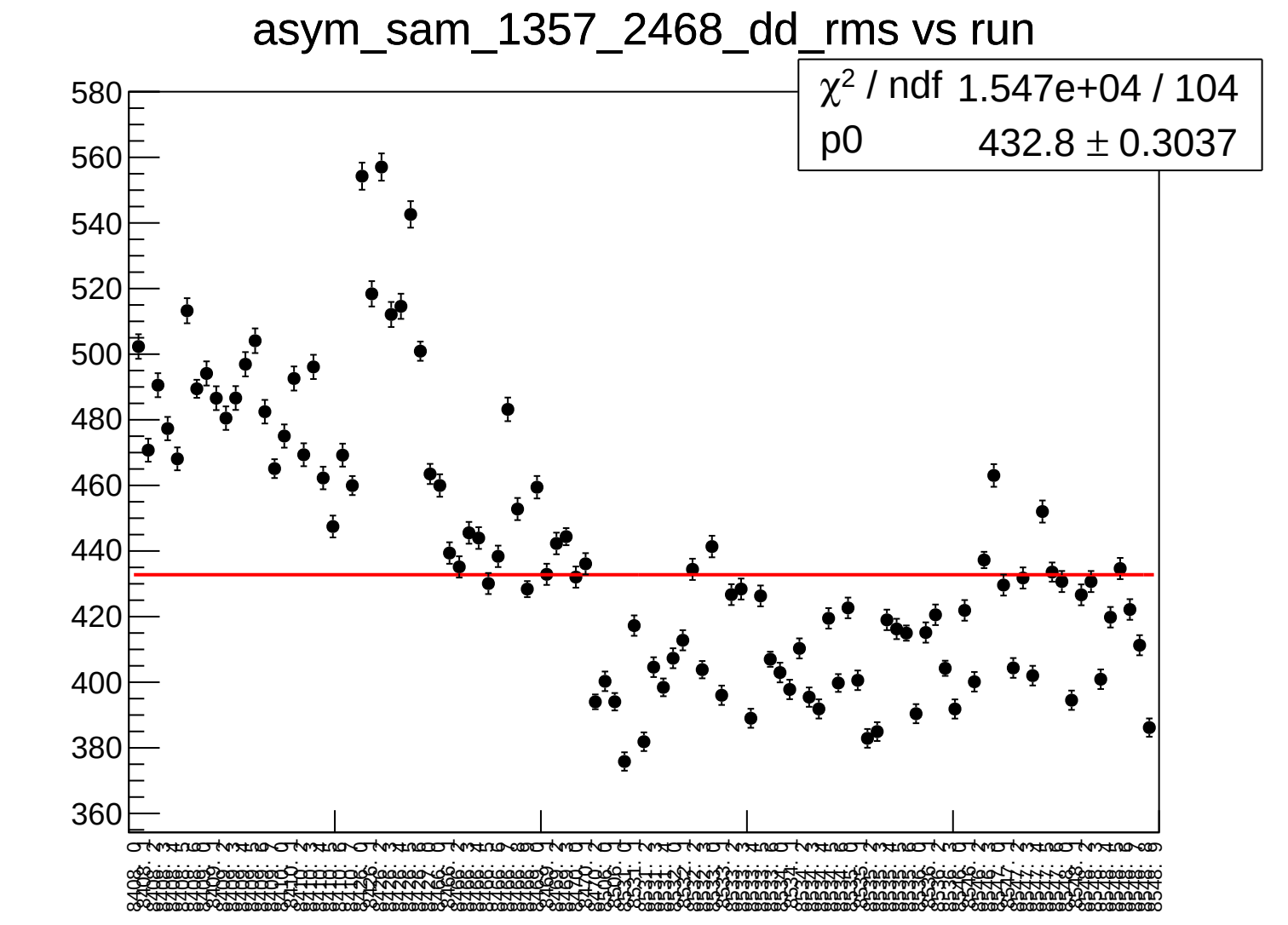

asym_sam_1357_2468_dd_eigen_dit_correction_mean vs run
χ² / ndf 111.2 / 104
p0 1521 ± 451.3
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 105
Mean −4303
Std Dev 0
2
1
0
−1
−2

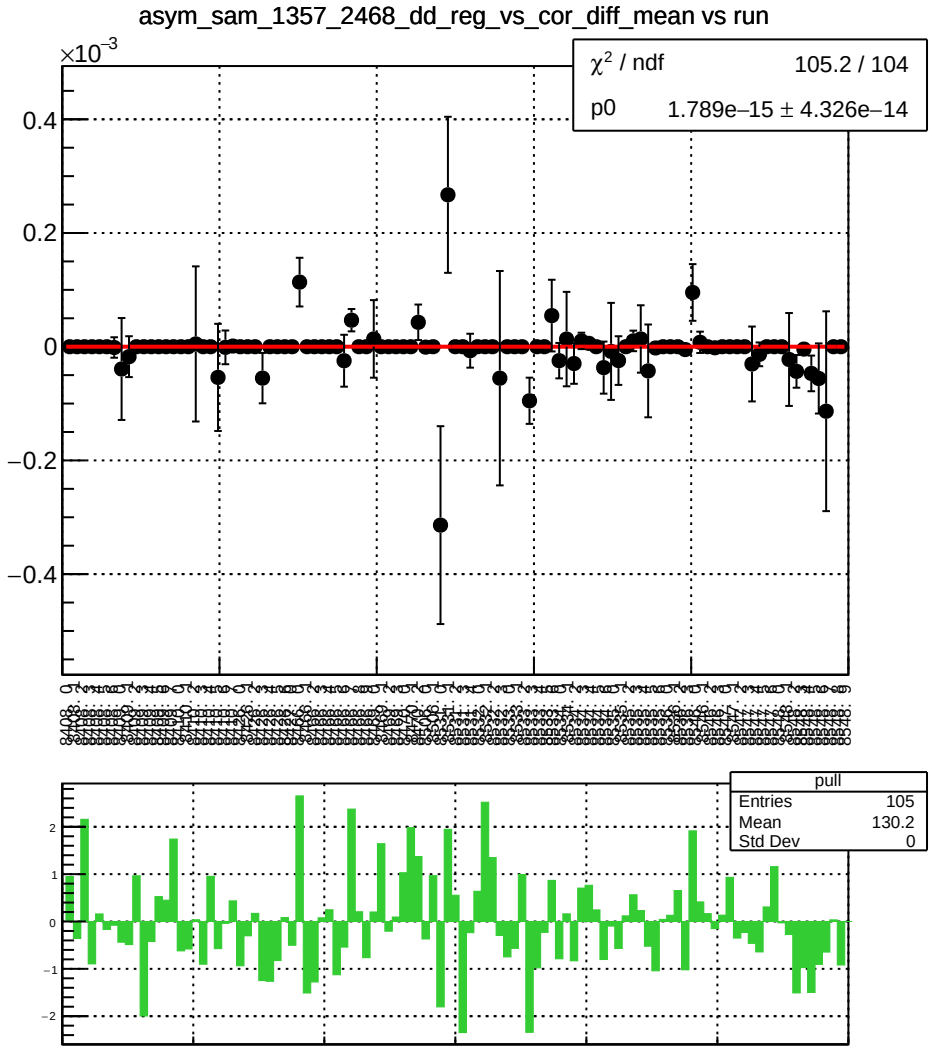

pull1D
Entries 105
Mean −0.0004471
Std Dev 1.029
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

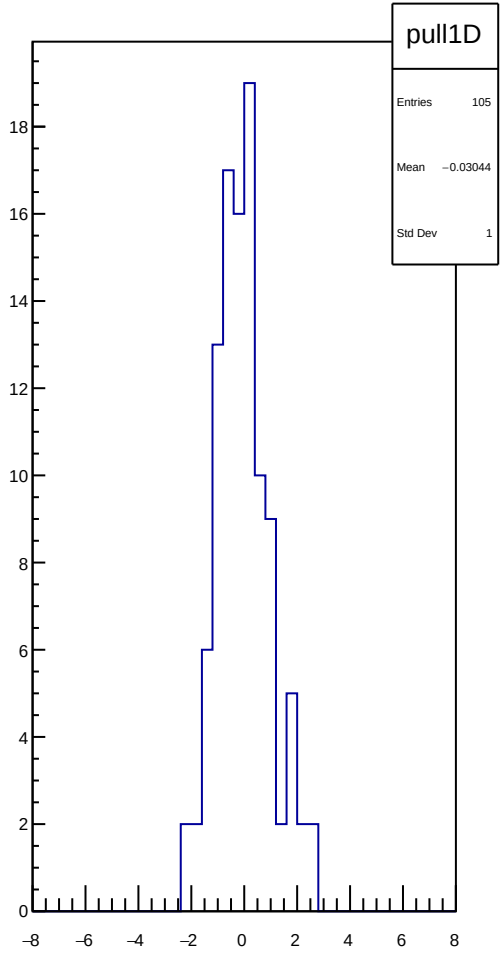

asym_sam_1357_2468_dd_eigen_dit_correction_rms vs run
χ^2 / ndf 1.342e+04 / 104
p0 455 ± 0.3191
600
550
500
450
400

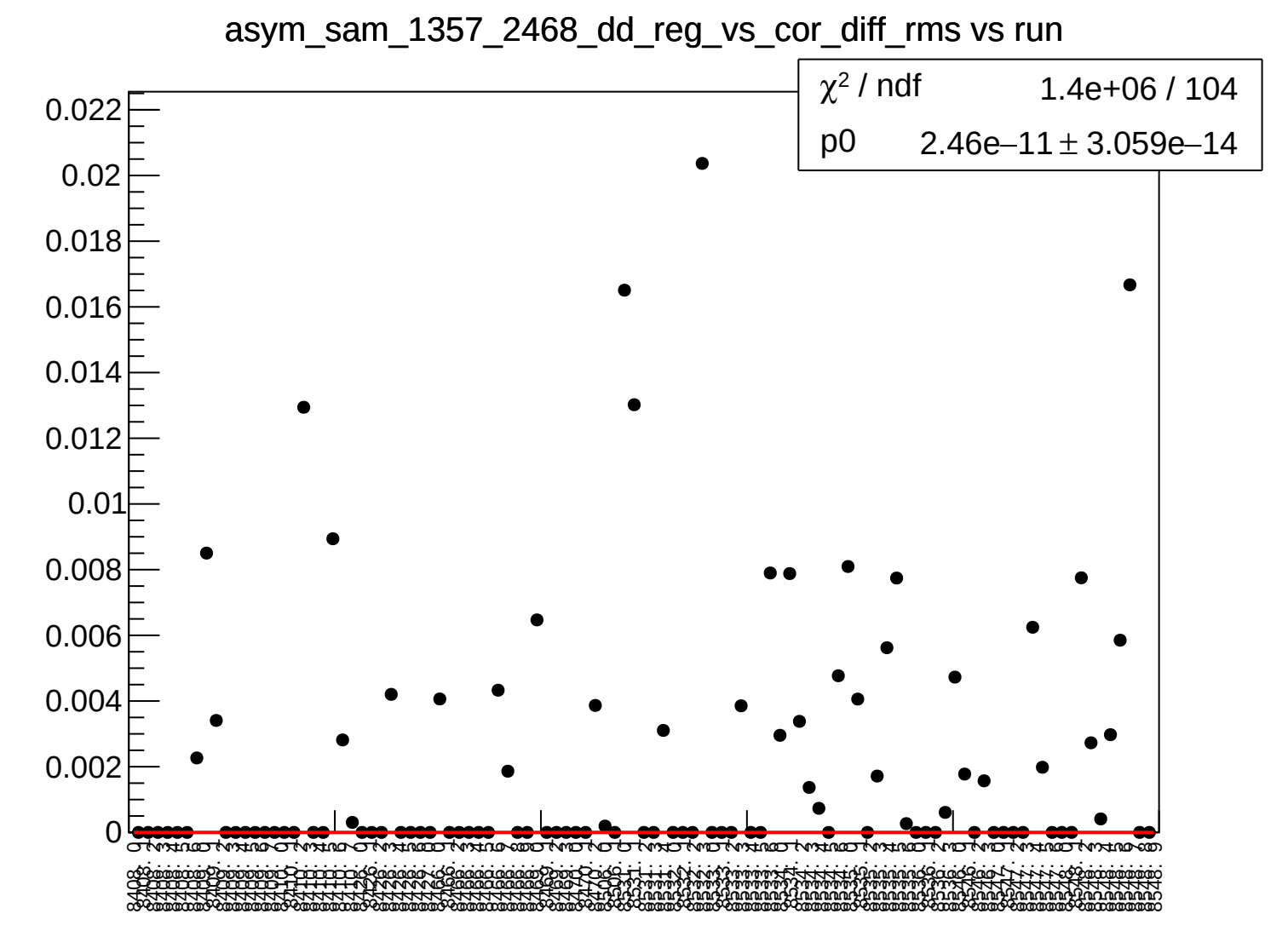

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 110.9 / 104
p0 −1426 ± 429.5
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 105
Mean 2651
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

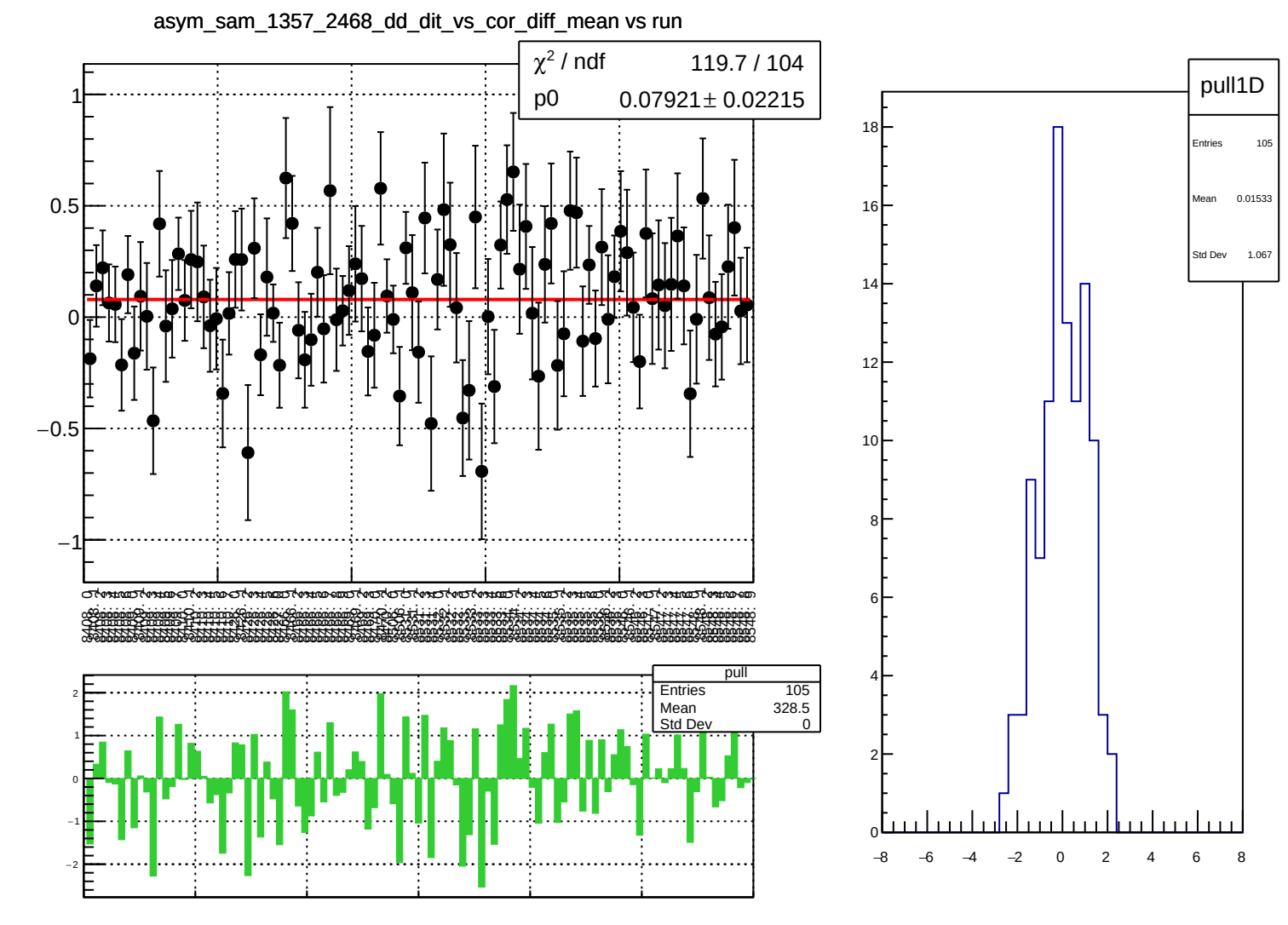

pull1D
Entries 105
Mean −0.0005756
Std Dev 1.028
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

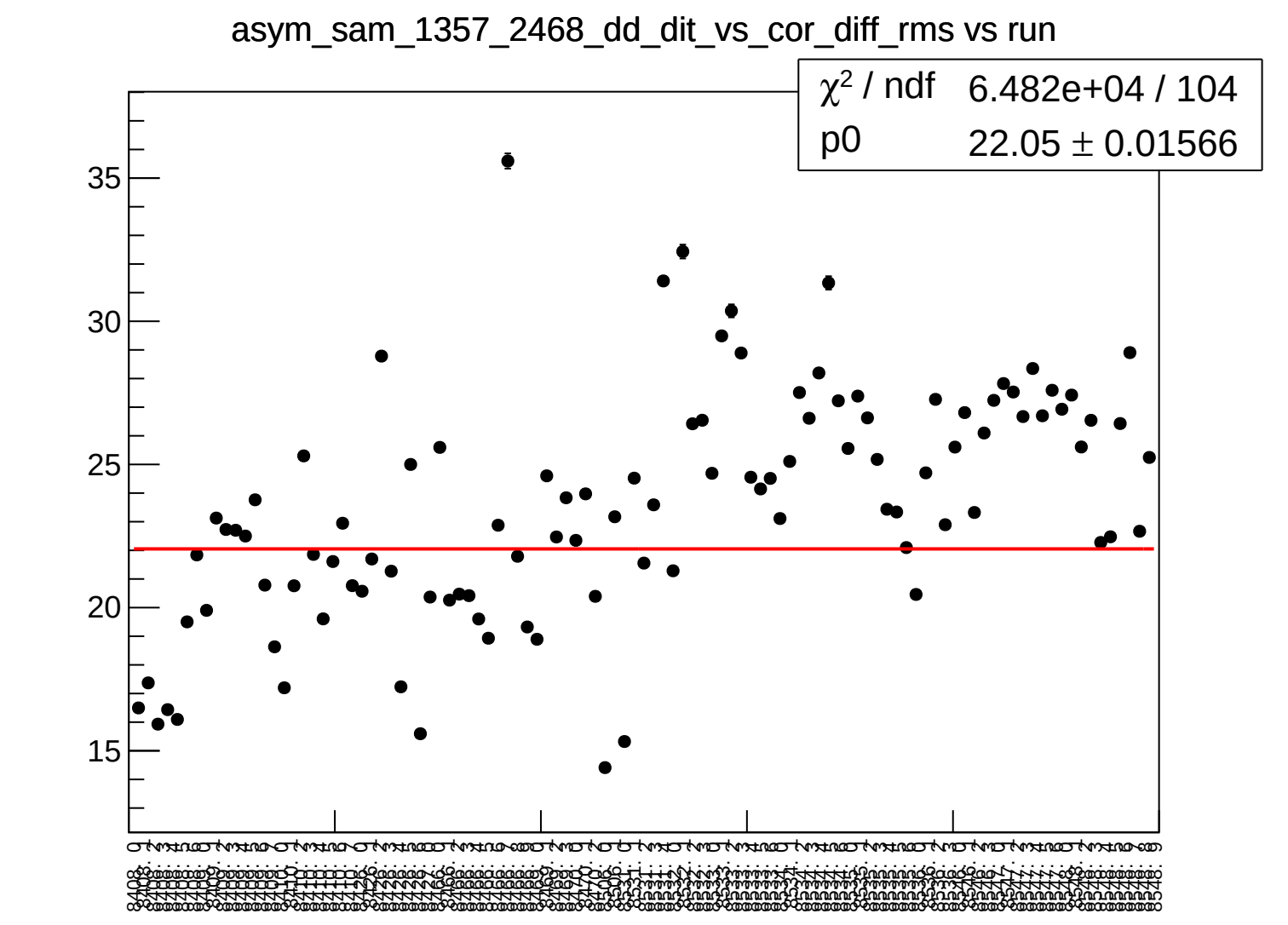

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.547e+04 / 104
p0 432.8 ± 0.3037
580
560
540
520
500
480
460
440
420
400
380
360

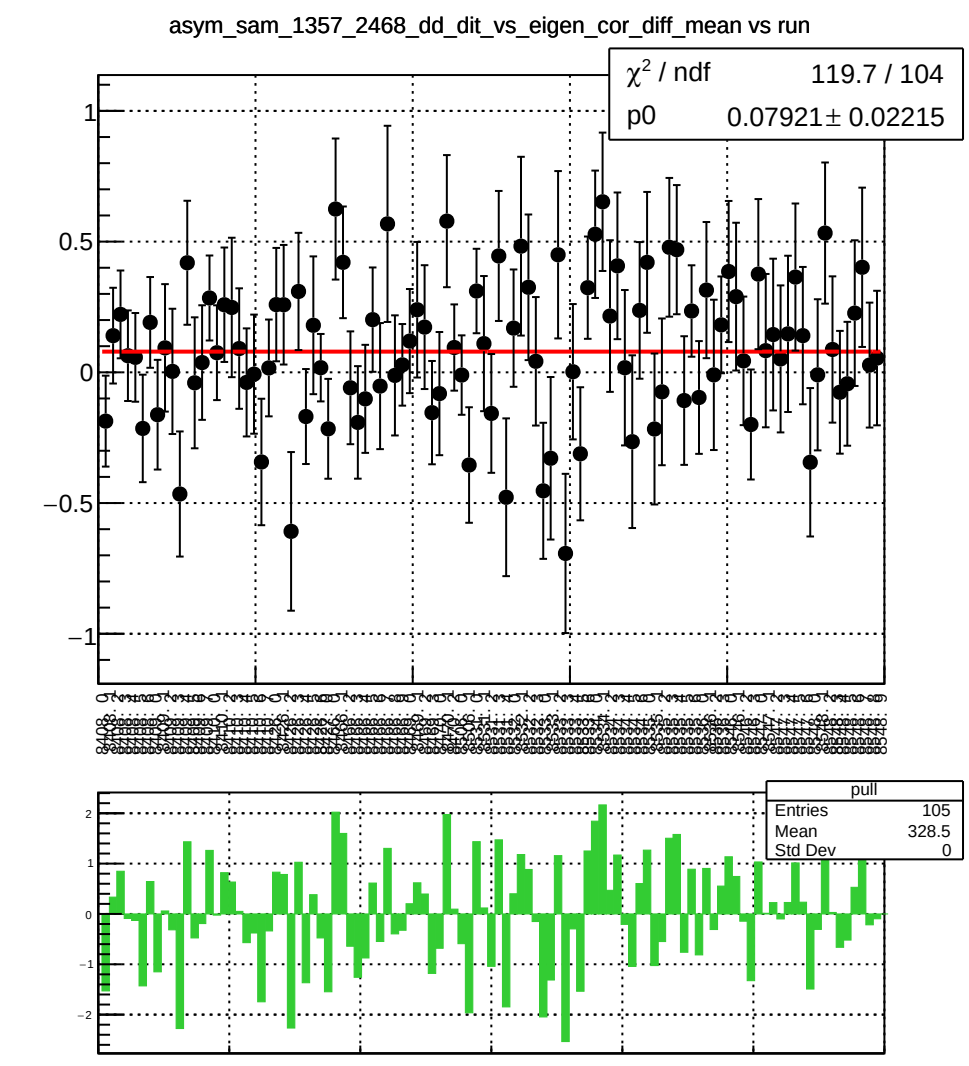

asym_sam_1357_2468_dd_reg_vs_cor_diff_mean vs run
×10^−3
χ² / ndf 105.2 / 104
p0 1.789e−15 ± 4.326e−14
0.4
0.2
0
−0.2
−0.4
pull
Entries 105
Mean 130.2
Std Dev 0
2
1
0
−1
−2

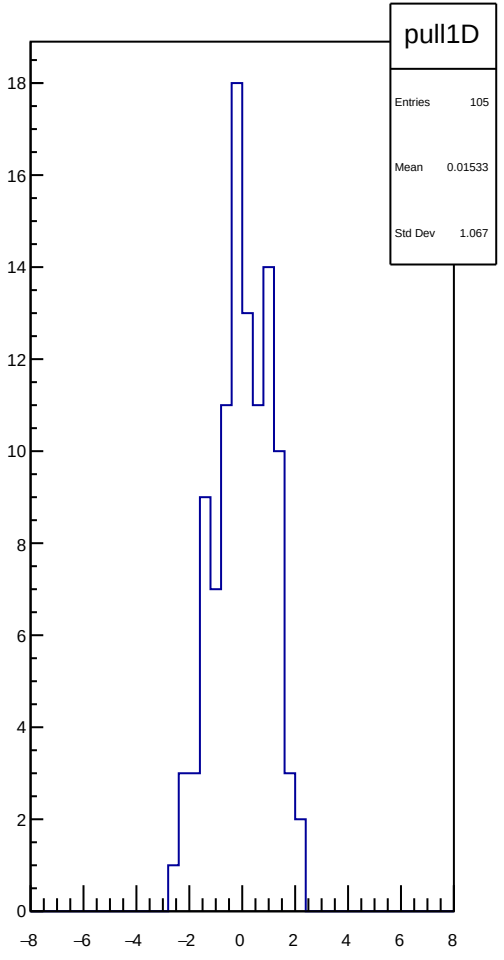

pull1D
Entries 105
Mean −0.03044
Std Dev 1
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

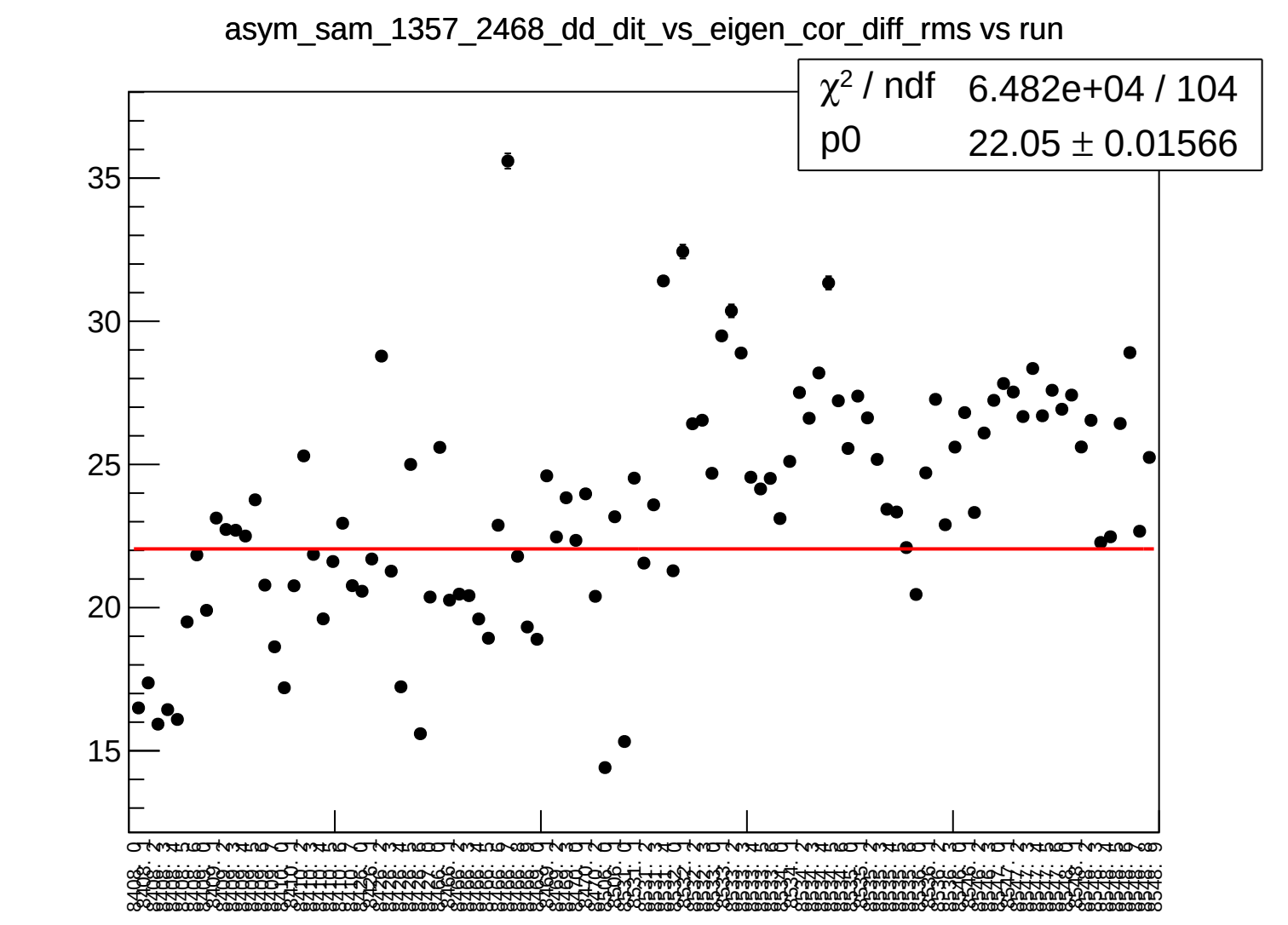

asym_sam_1357_2468_dd_reg_vs_cor_diff_rms vs run
χ² / ndf 1.4e+06 / 104
p0 2.46e−11 ± 3.059e−14
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0

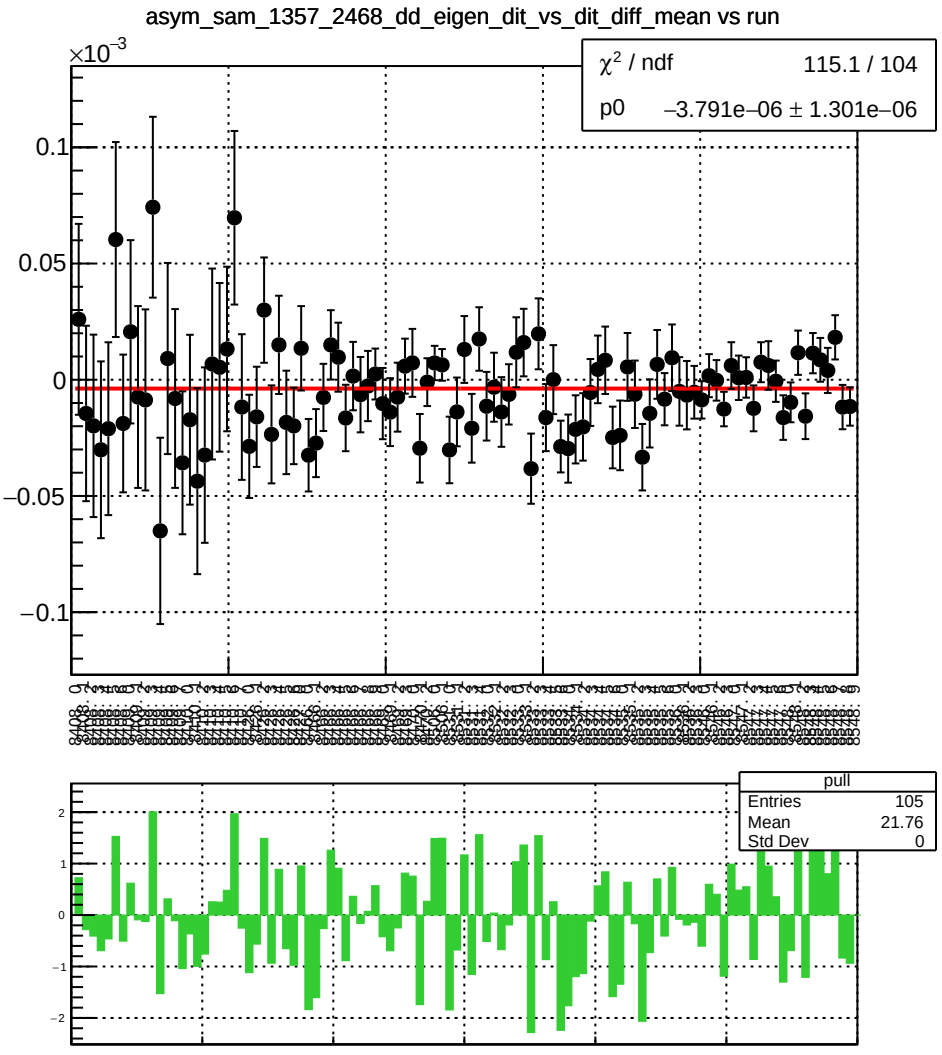

asym_sam_1357_2468_dd_dit_vs_cor_diff_mean vs run
χ² / ndf 119.7 / 104
p0 0.07921 ± 0.02215
pull
Entries 105
Mean 328.5
Std Dev 0
pull1D
Entries 105
Mean 0.01533
Std Dev 1.067

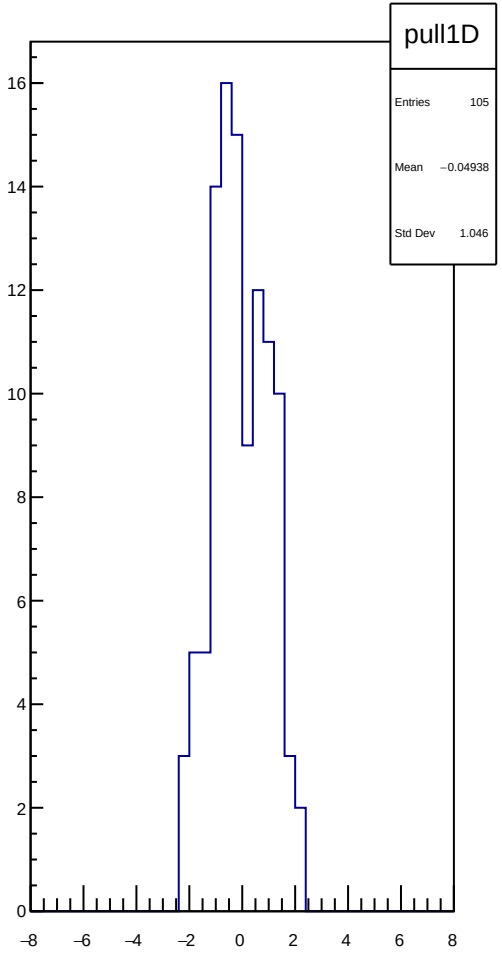

asym_sam_1357_2468_dd_dit_vs_cor_diff_rms vs run
χ² / ndf 6.482e+04 / 104
p0 22.05 ± 0.01566
35
30
25
20
15

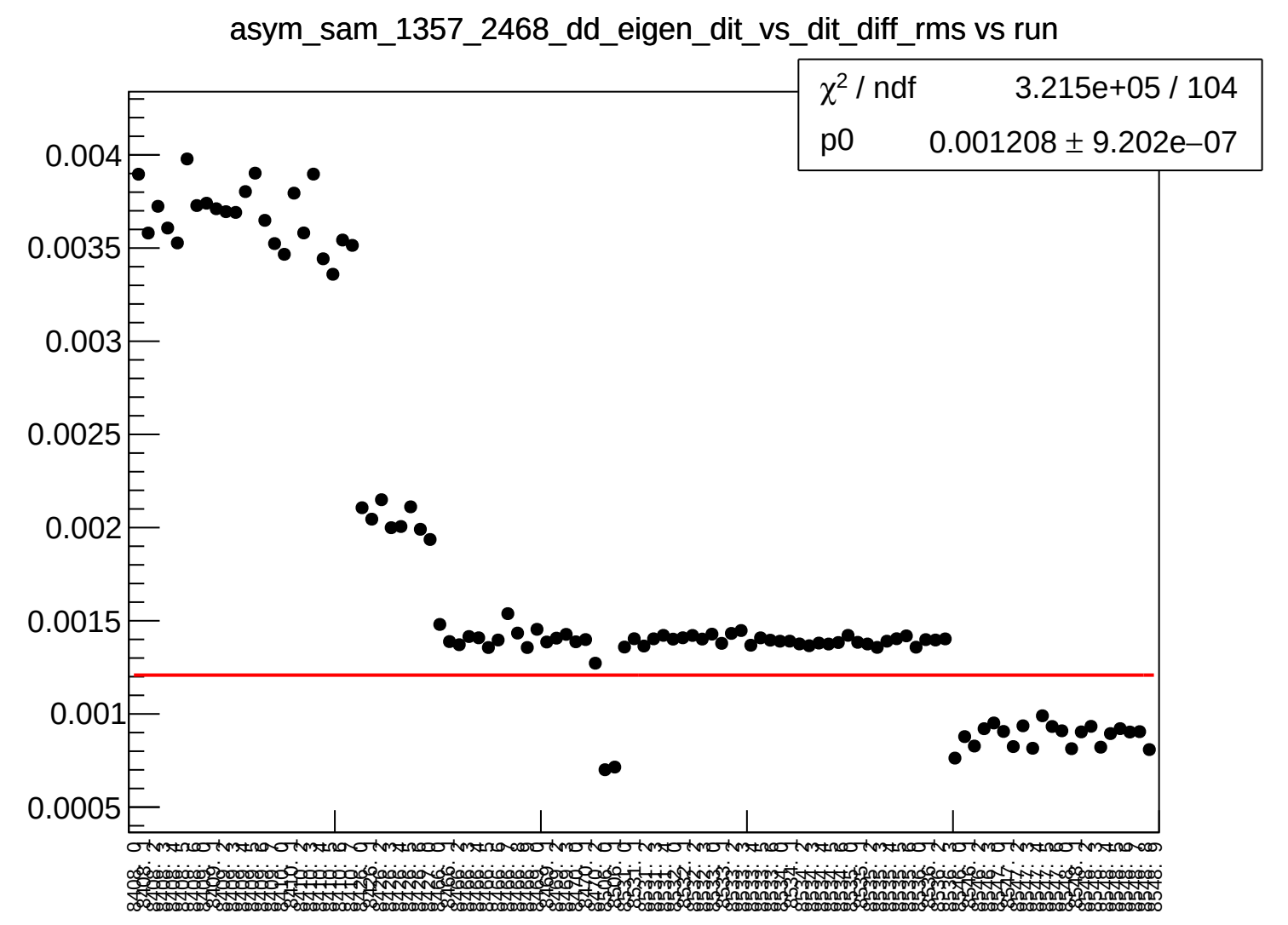

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 119.7 / 104
p0 0.07921 ± 0.02215
pull
Entries 105
Mean 328.5
Std Dev 0

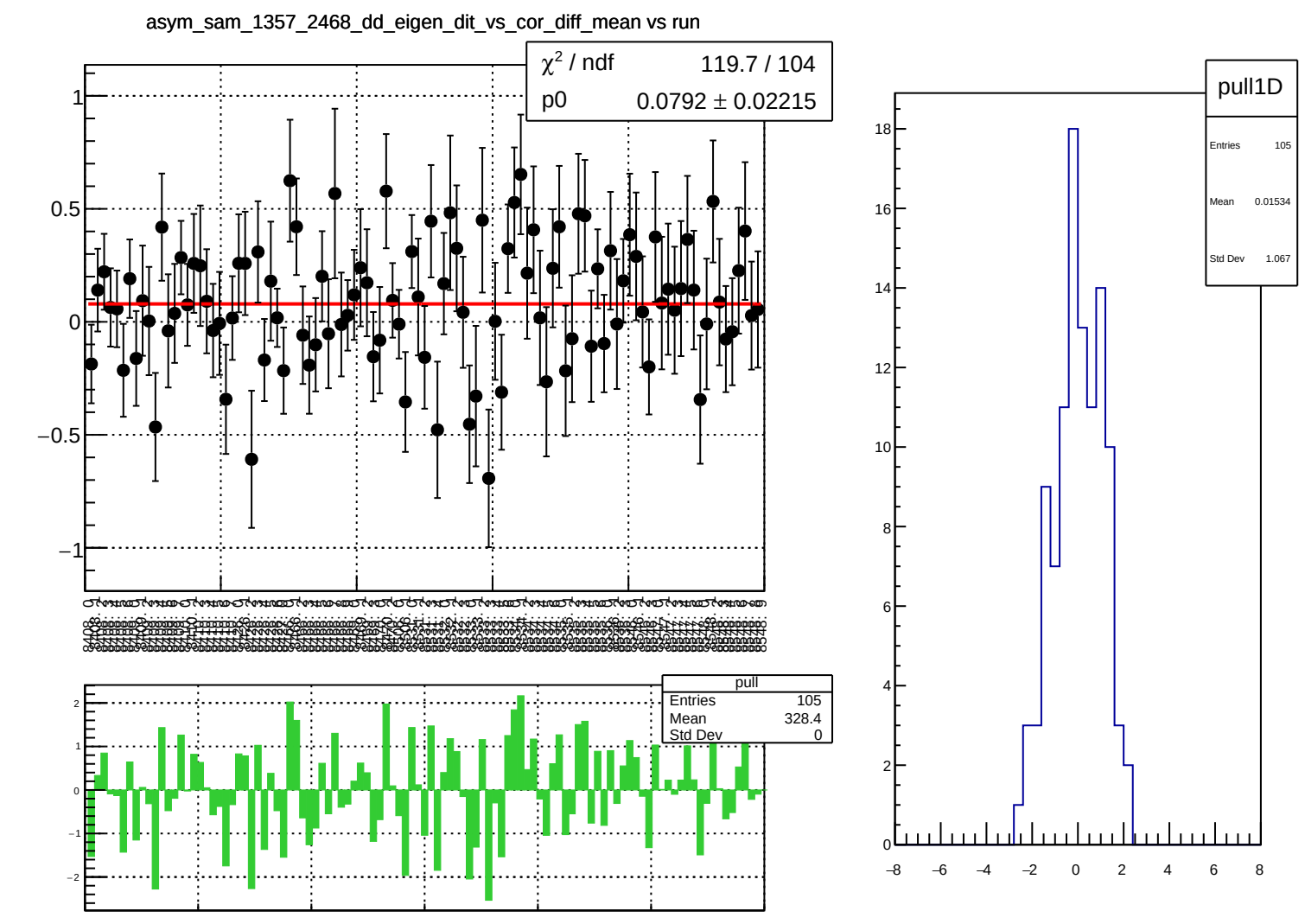

pull1D
Entries 105
Mean 0.01533
Std Dev 1.067

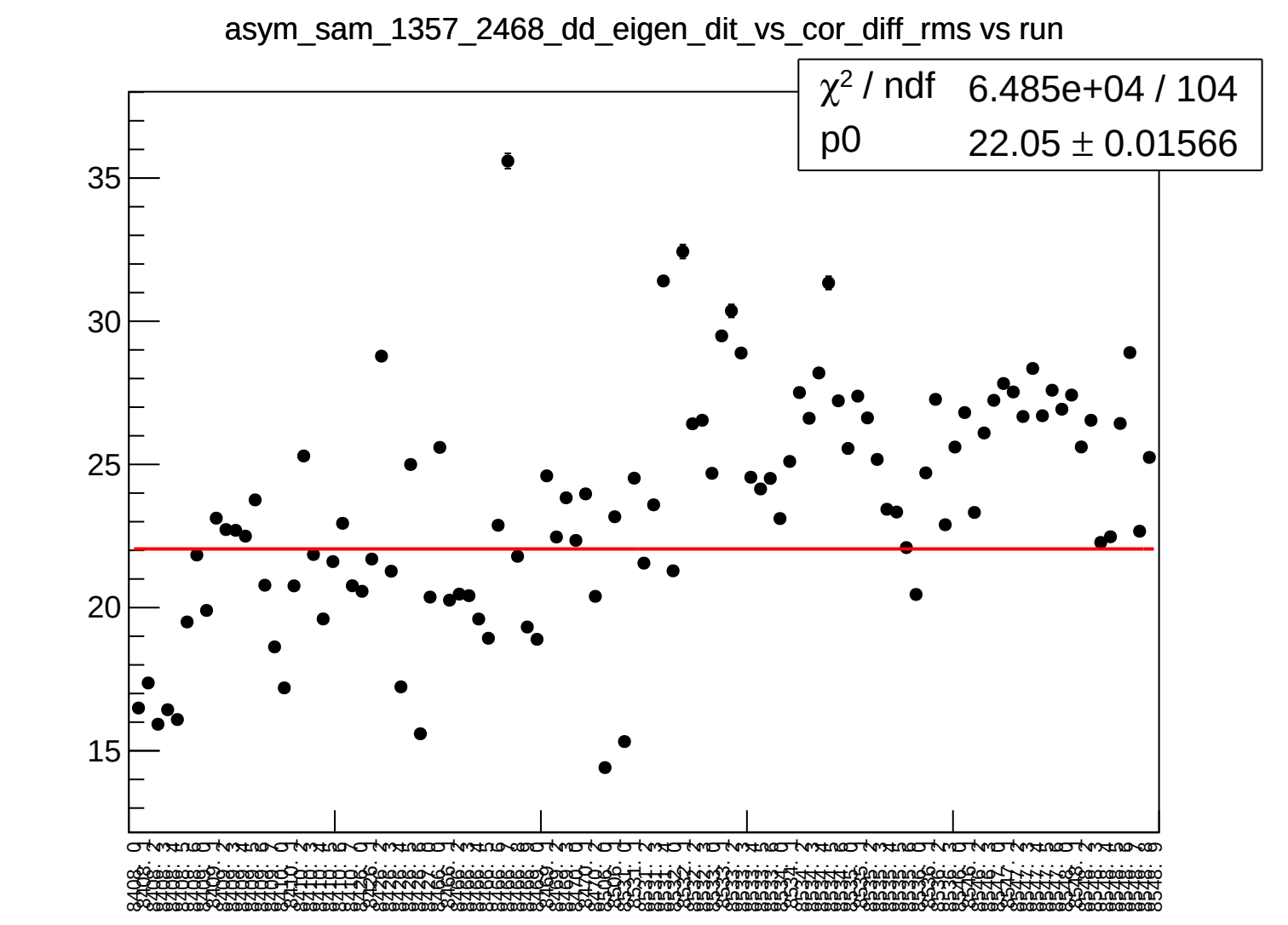

asym_sam_1357_2468_dd_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.482e+04 / 104
p0 22.05 ± 0.01566
35
30
25
20
15

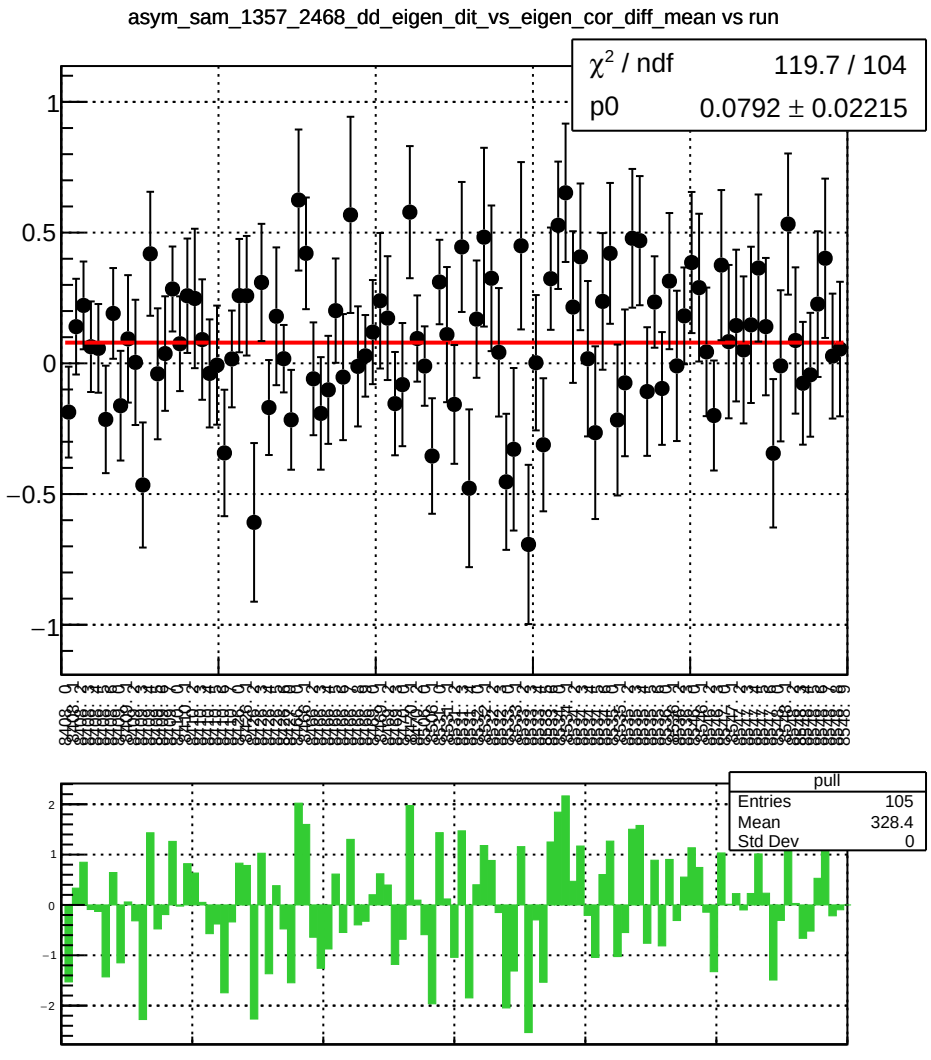

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 115.1 / 104
p0 −3.791e−06 ± 1.301e−06
0.1
0.05
0
−0.05
−0.1
pull
Entries 105
Mean 21.76
Std Dev 0
2
1
0
−1
−2

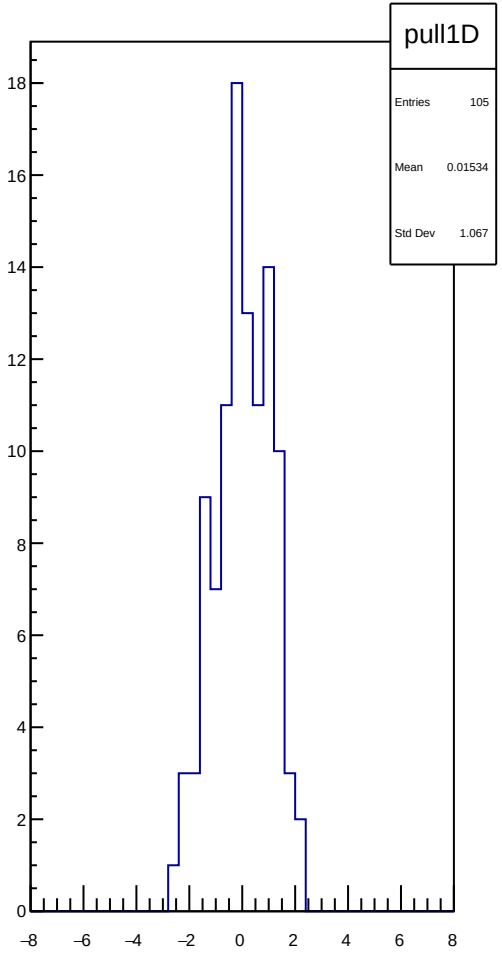

pull1D
Entries 105
Mean −0.04938
Std Dev 1.046
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

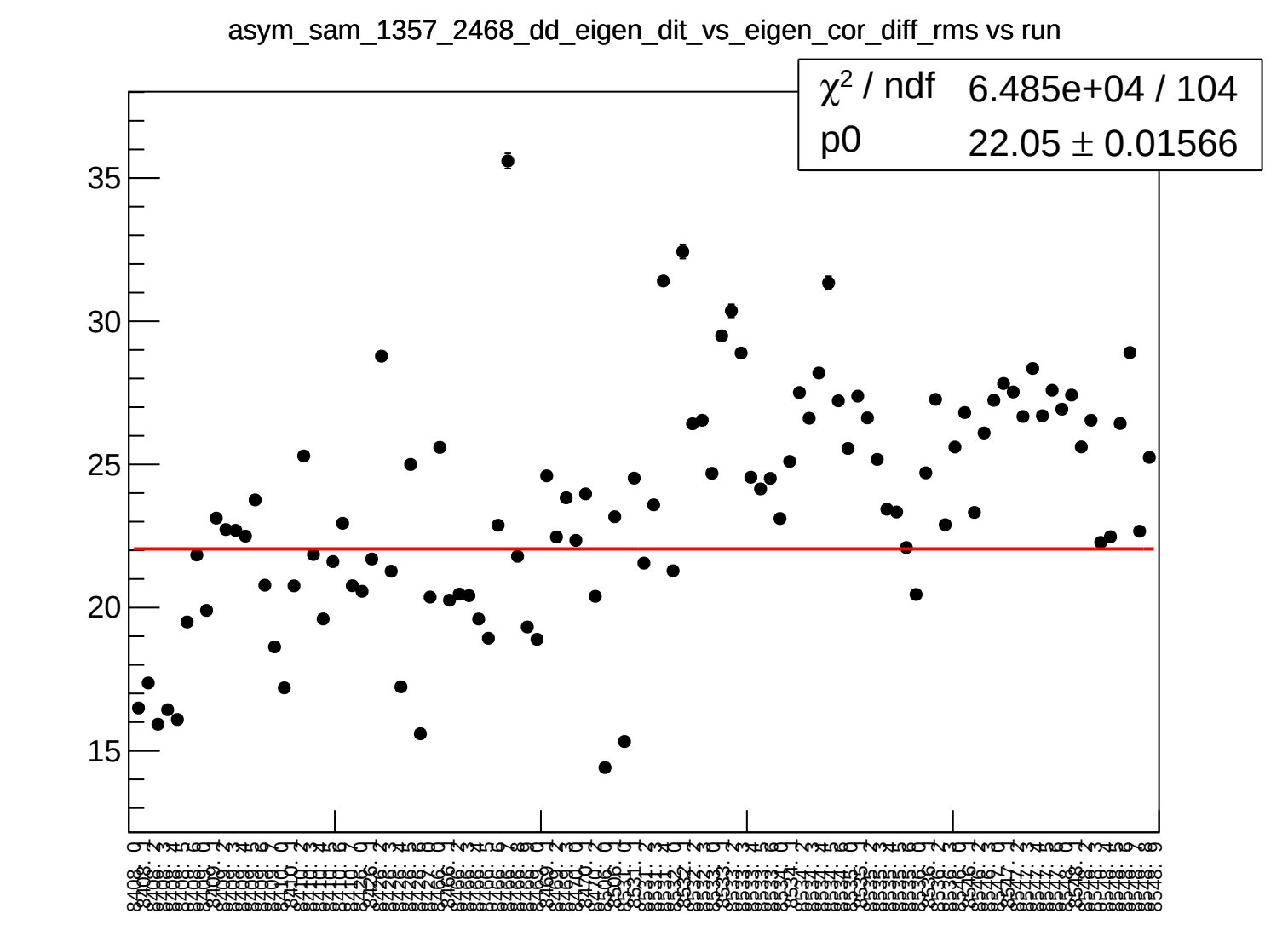

asym_sam_1357_2468_dd_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 3.215e+05 / 104
p0 0.001208 ± 9.202e−07
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005

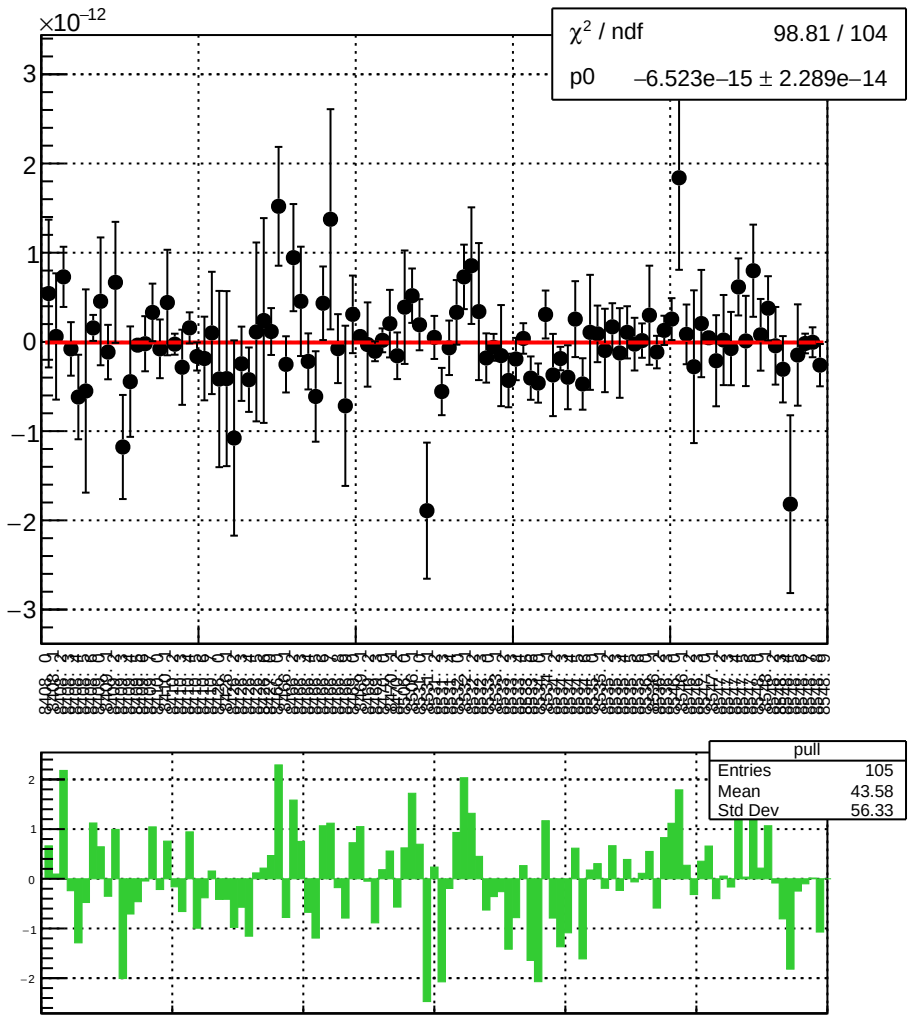

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 119.7 / 104
p0 0.0792 ± 0.02215
pull
Entries 105
Mean 328.4
Std Dev 0
pull1D
Entries 105
Mean 0.01534
Std Dev 1.067

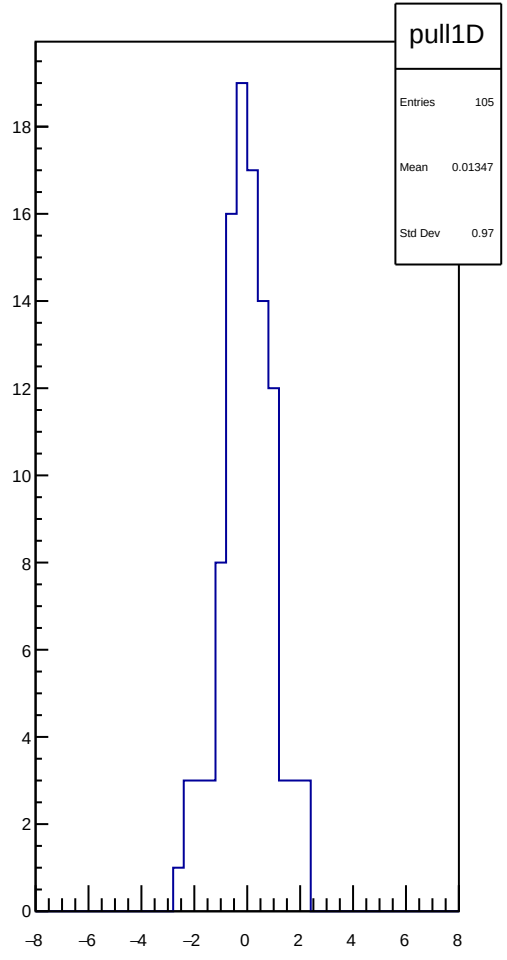

asym_sam_1357_2468_dd_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 6.485e+04 / 104
p0 22.05 ± 0.01566
35
30
25
20
15

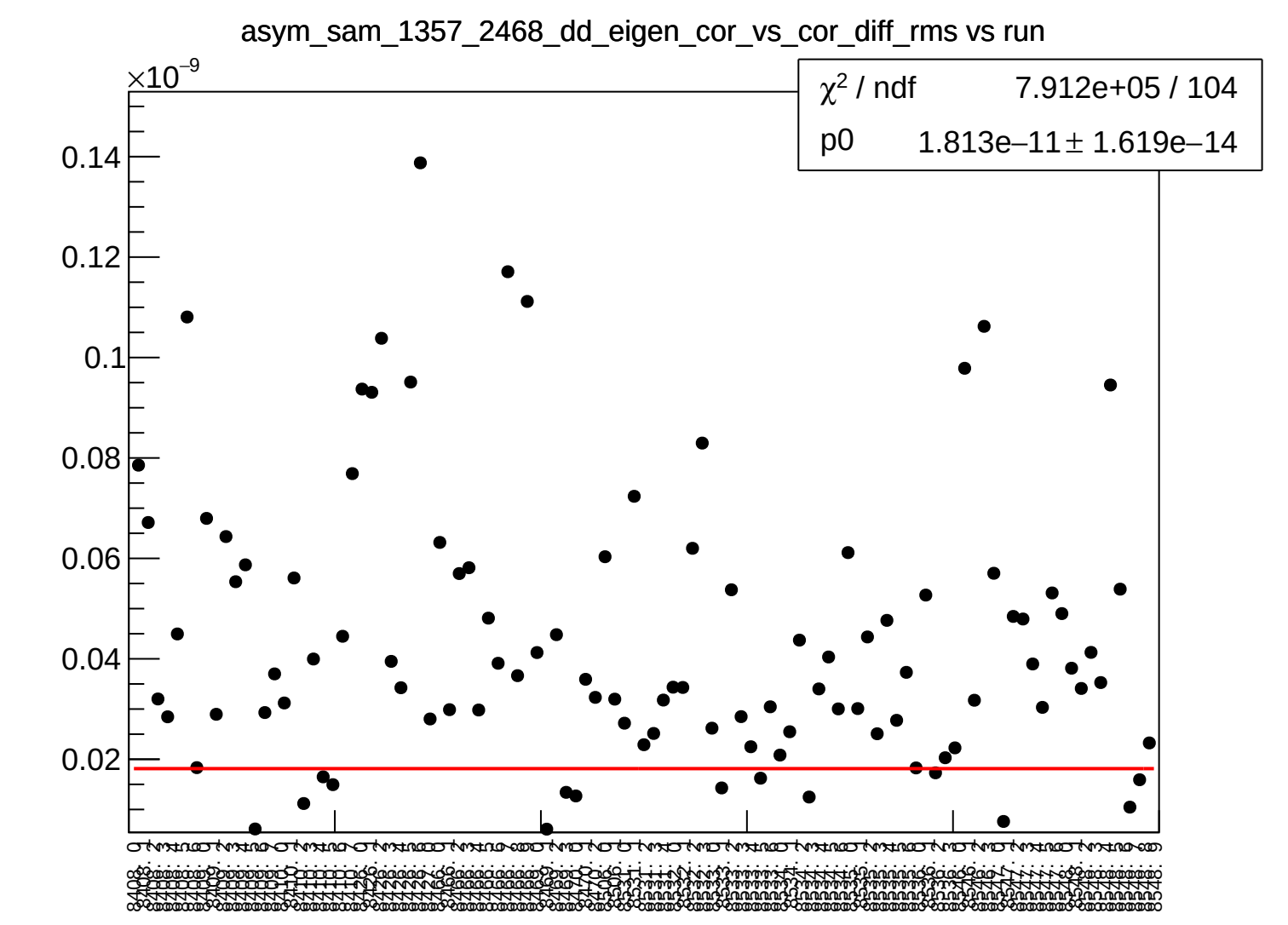

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 119.7 / 104
p0 0.0792 ± 0.02215
pull
Entries 105
Mean 328.4
Std Dev 0

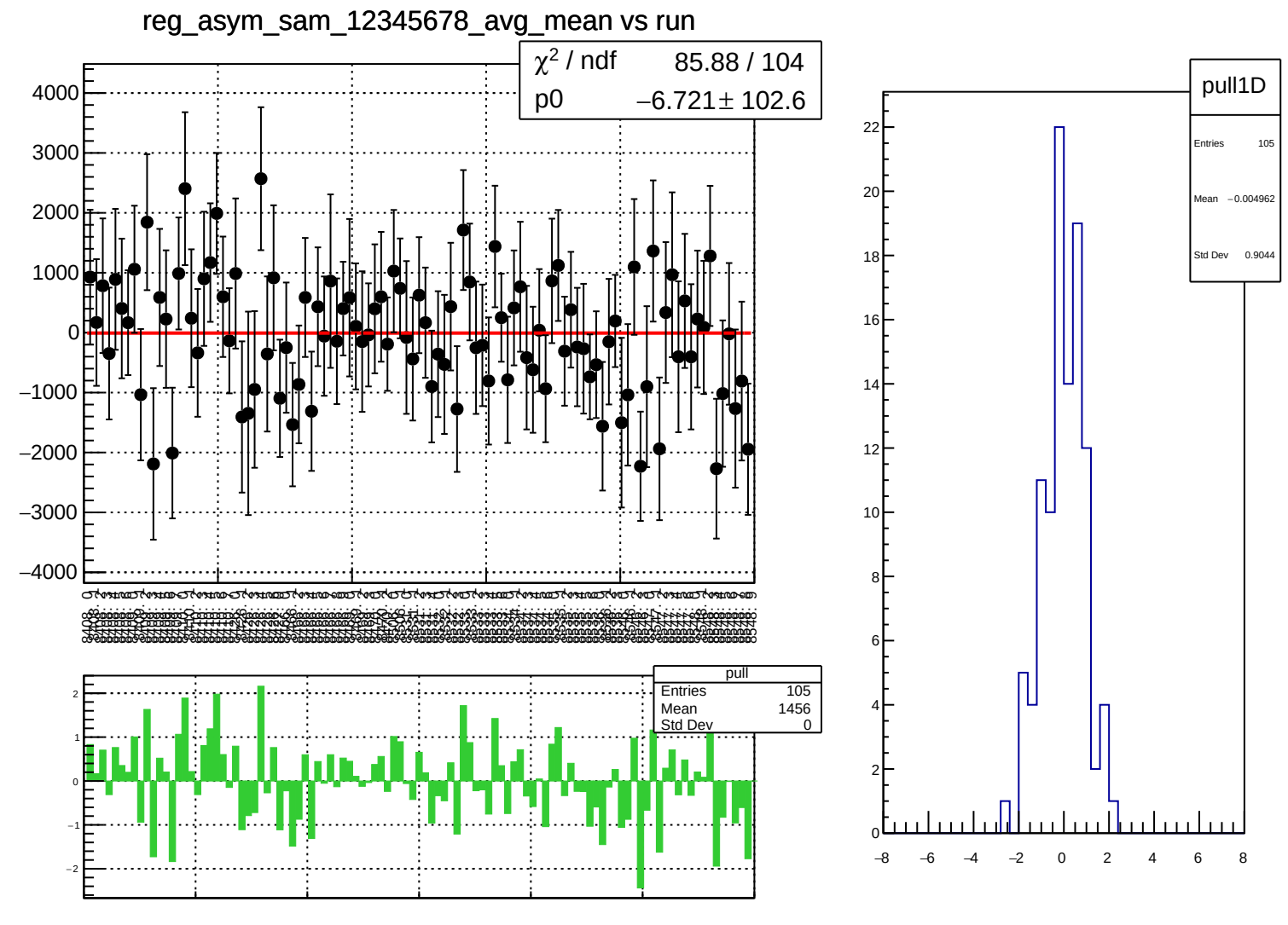

pull1D
Entries 105
Mean 0.01534
Std Dev 1.067

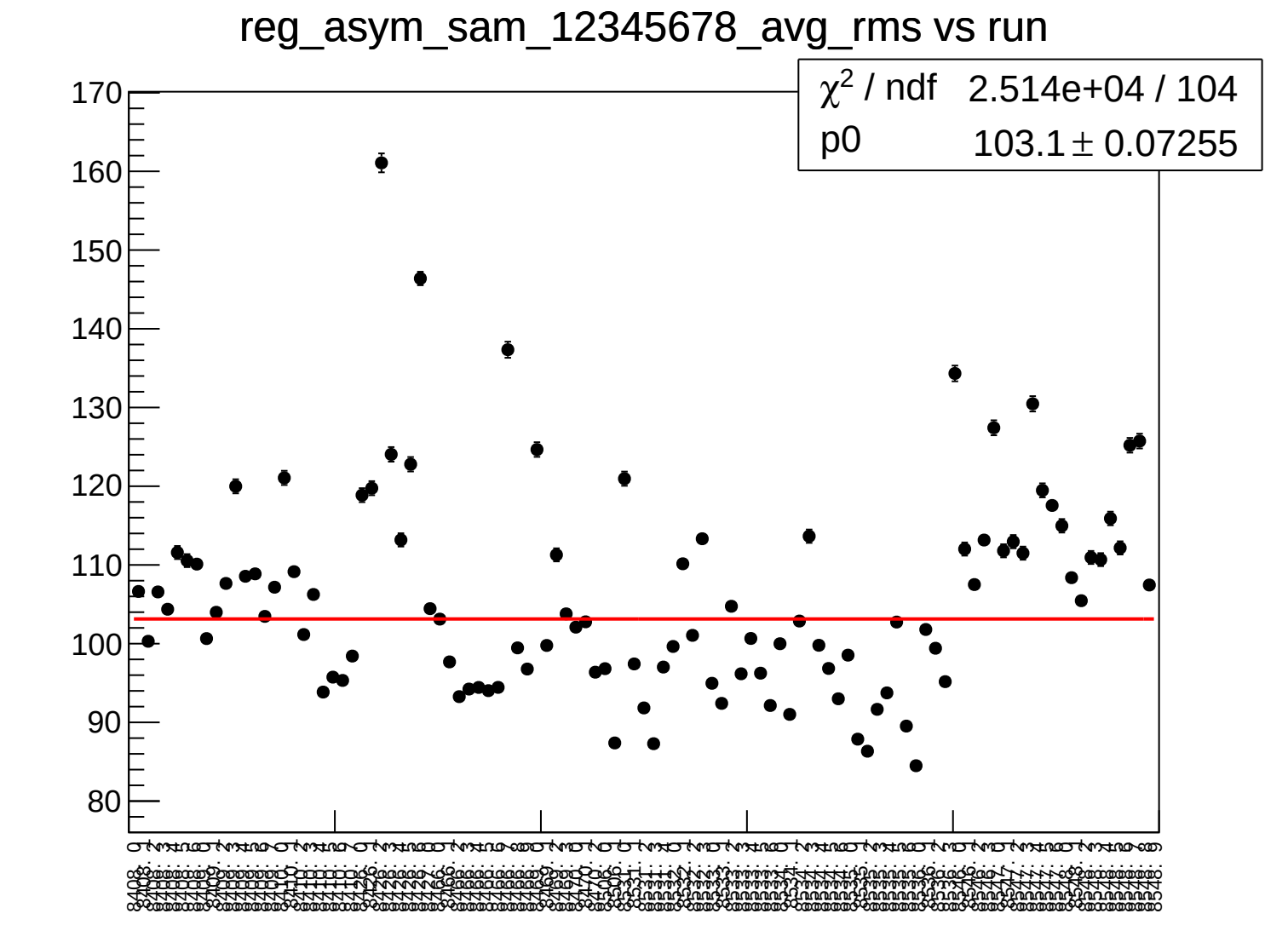

asym_sam_1357_2468_dd_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 6.485e+04 / 104
p0 22.05 ± 0.01566
35
30
25
20
15

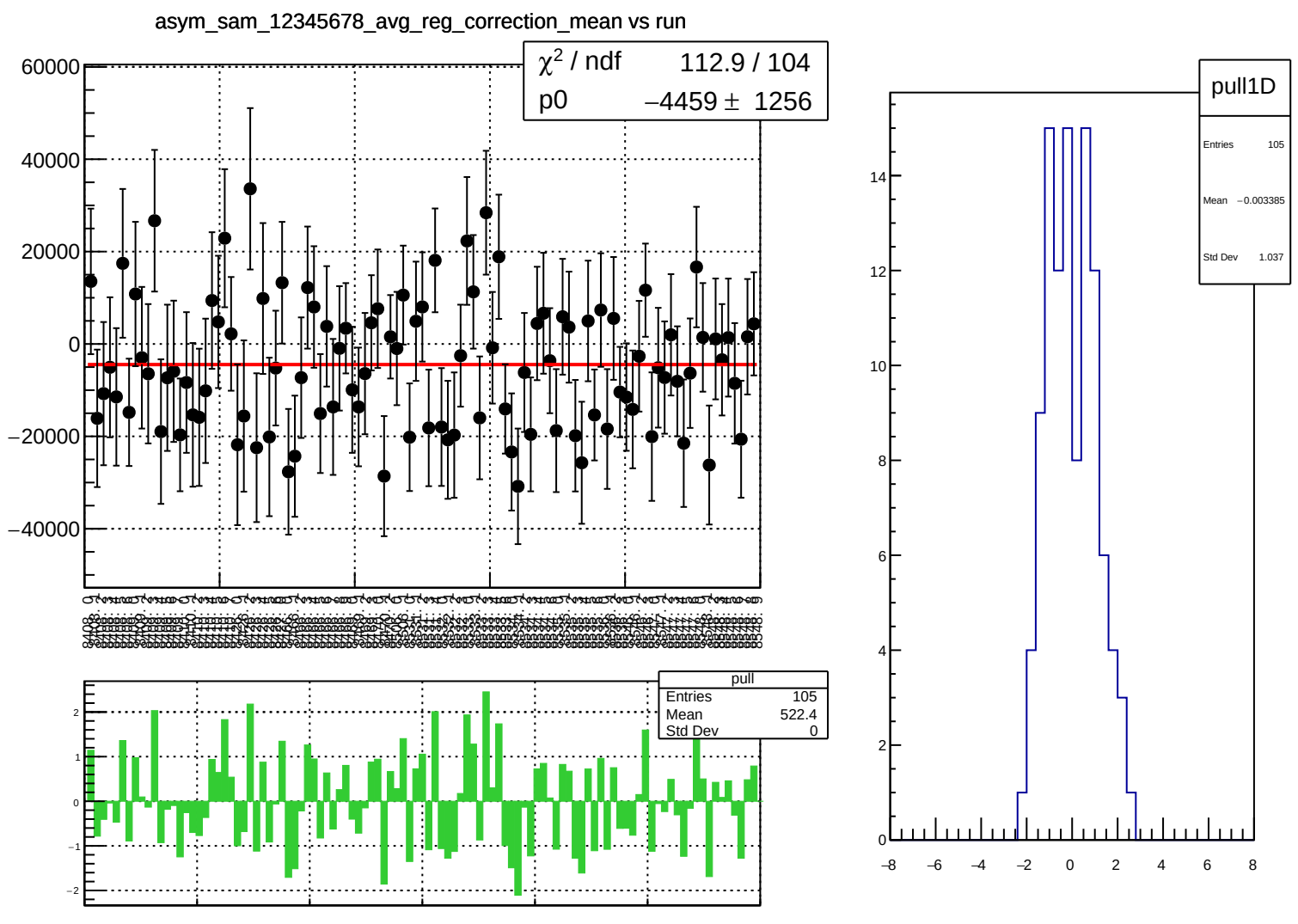

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_mean vs run
×10^−12
χ² / ndf 98.81 / 104
p0 −6.523e−15 ± 2.289e−14
pull
Entries 105
Mean 43.58
Std Dev 56.33

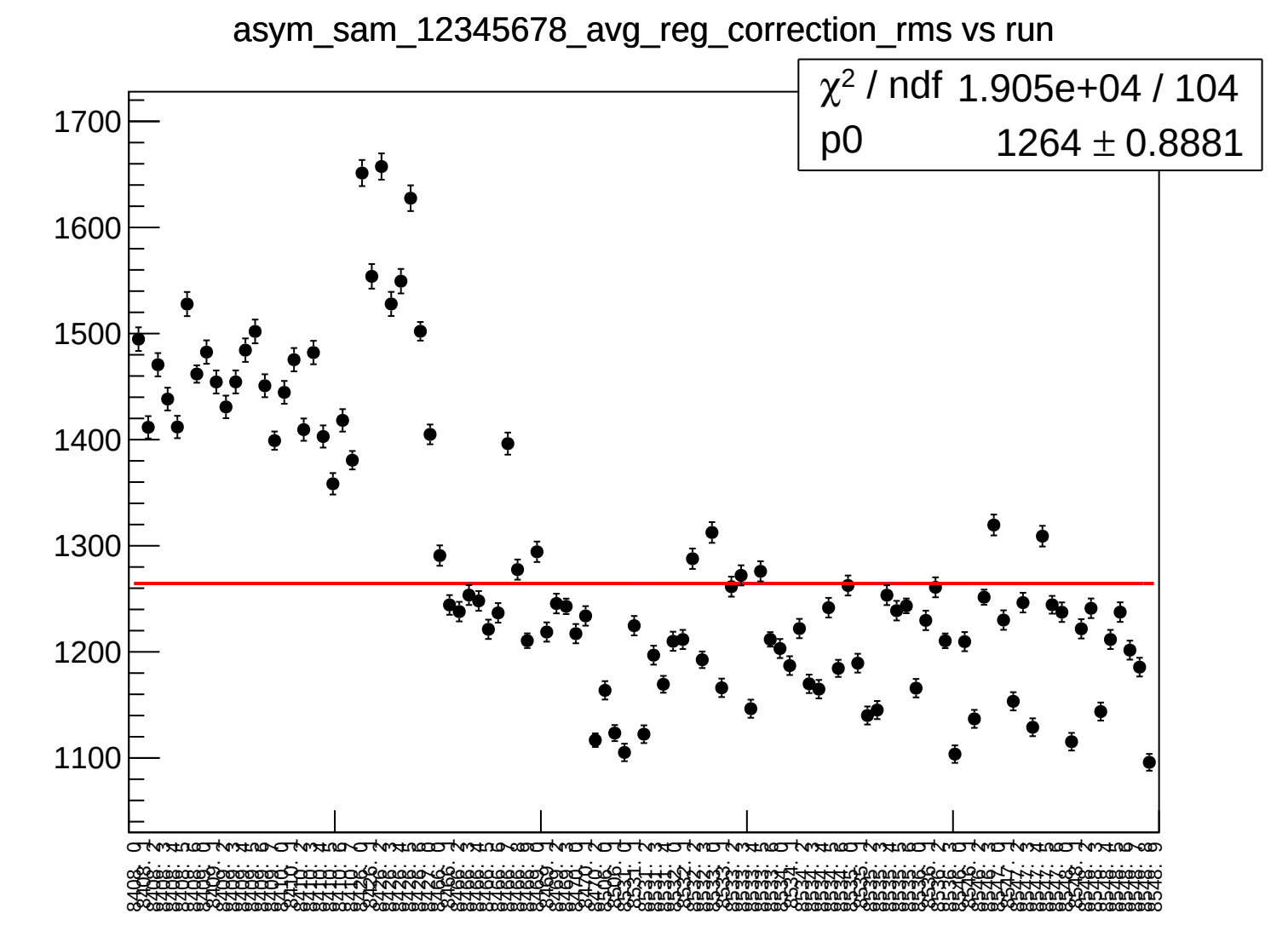

pull1D
Entries 105
Mean 0.01347
Std Dev 0.97

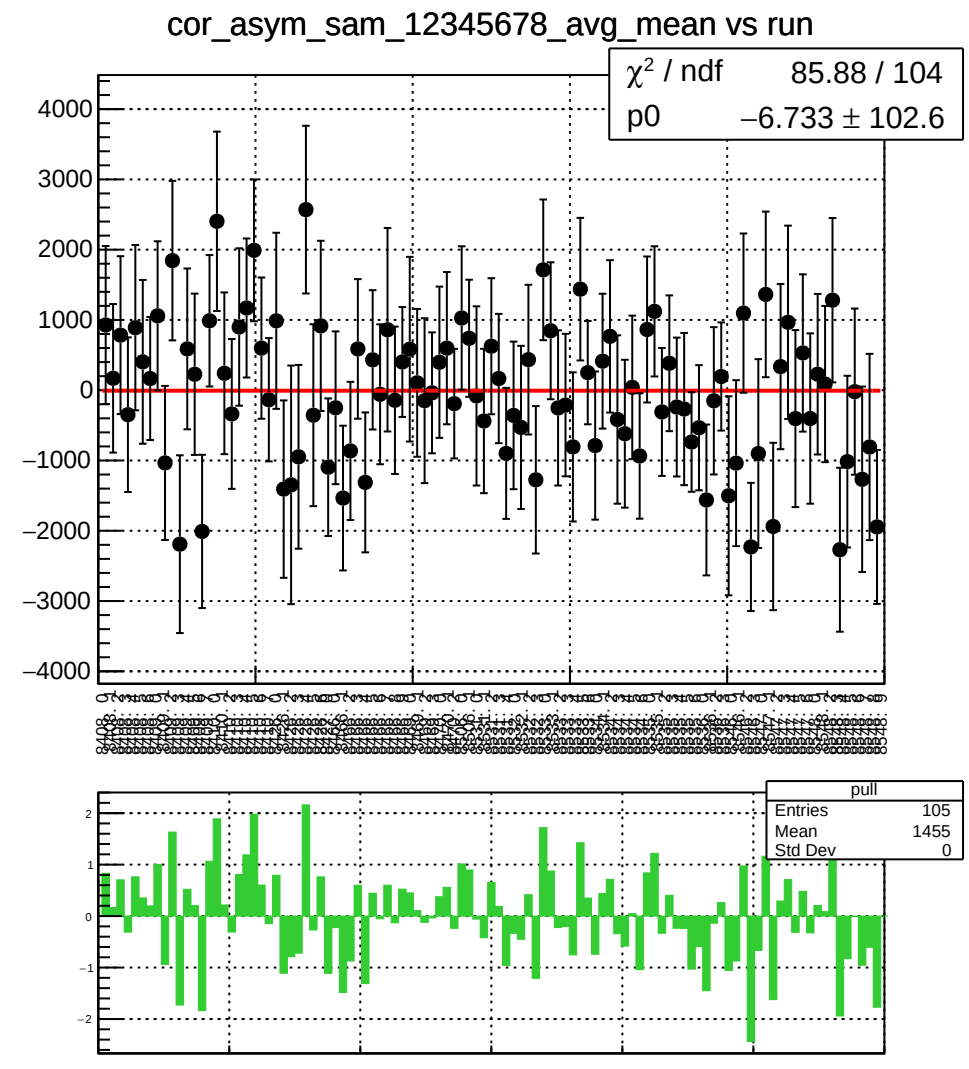

asym_sam_1357_2468_dd_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.912e+05 / 104
p0 1.813e−11 ± 1.619e−14
0.14
0.12
0.1
0.08
0.06
0.04
0.02

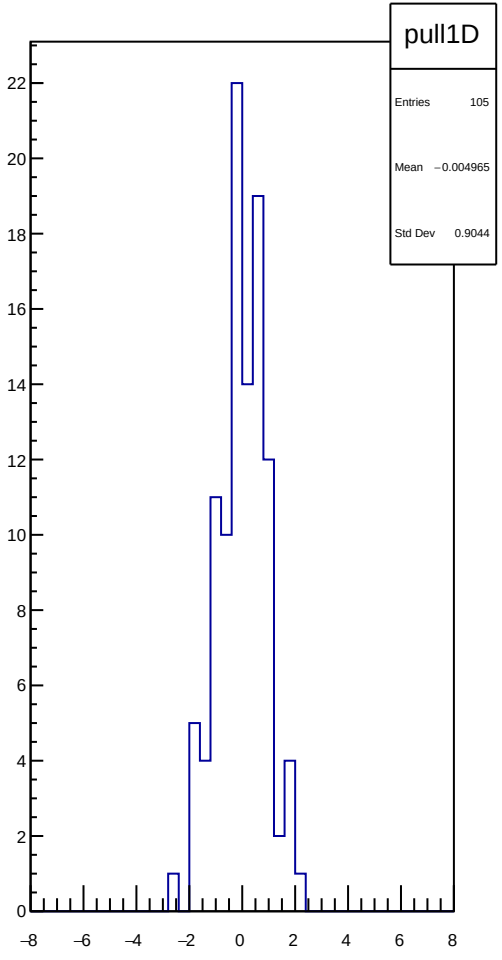

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 85.88 / 104
p0 −6.721 ± 102.6
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 105
Mean 1456
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.004962
Std Dev 0.9044
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

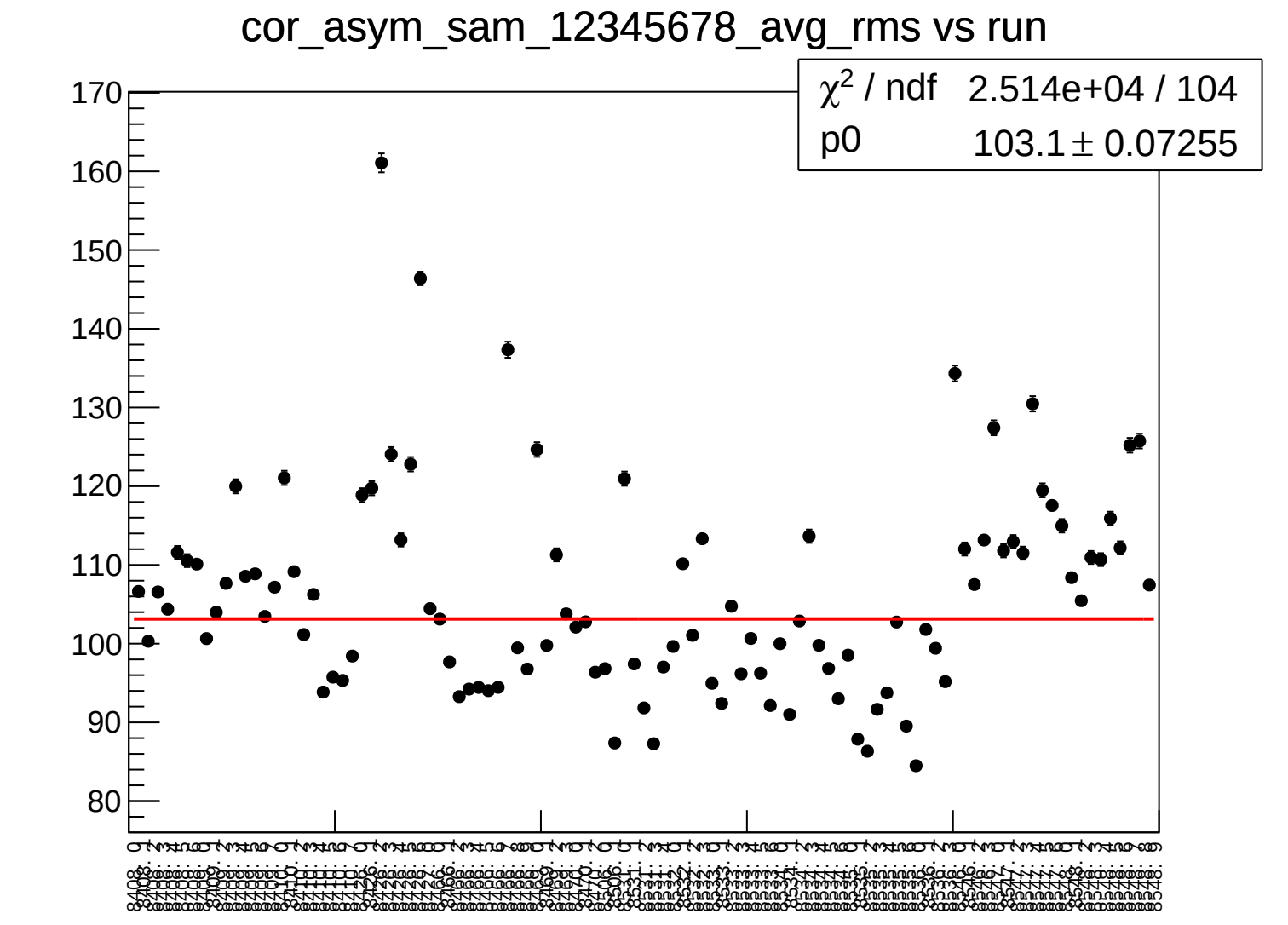

reg_asym_sam_12345678_avg_rms vs run
χ^2 / ndf 2.514e+04 / 104
p0 103.1 ± 0.07255
170
160
150
140
130
120
110
100
90
80

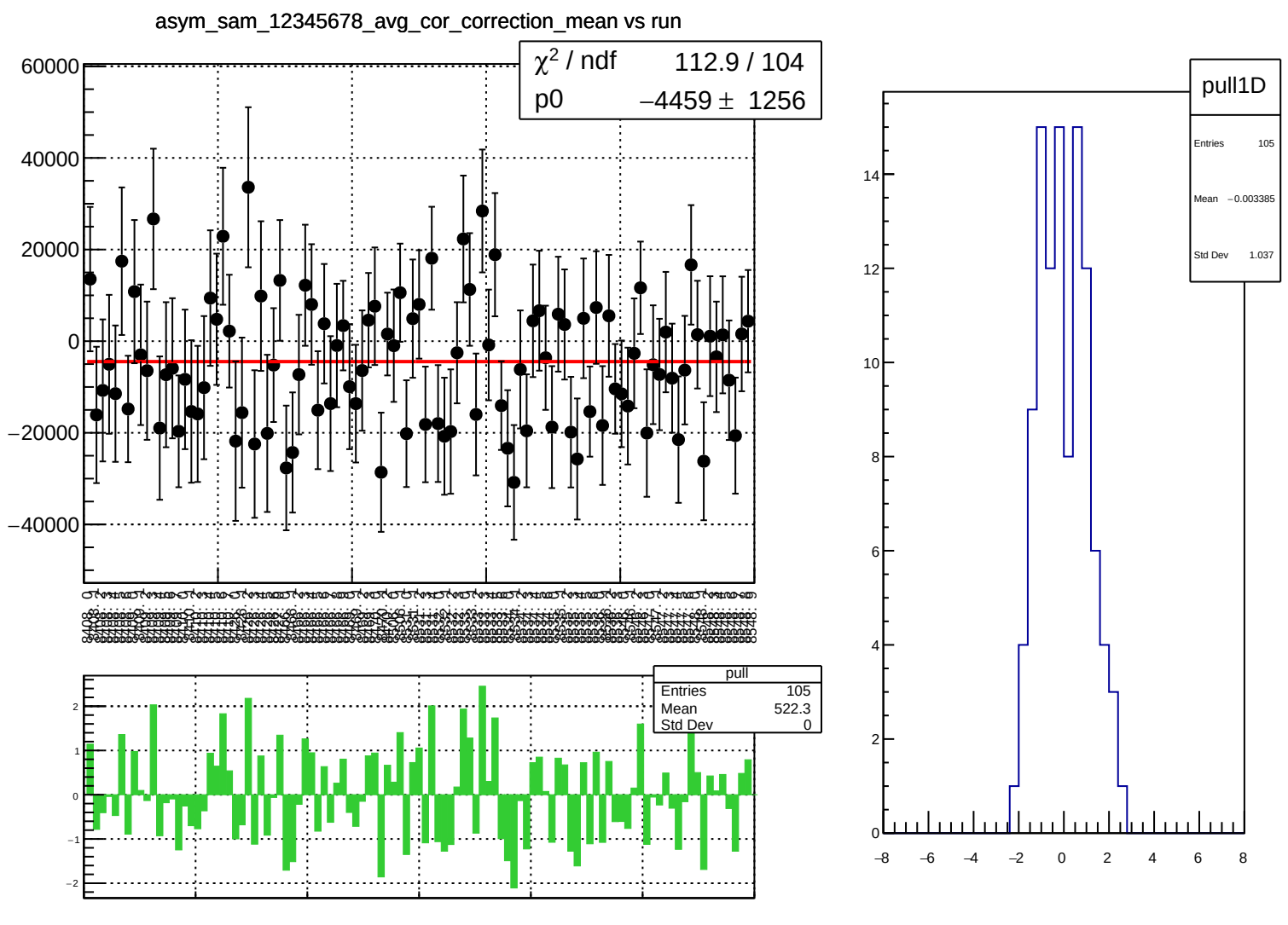

asym_sam_12345678_avg_reg_correction_mean vs run
χ² / ndf 112.9 / 104
p0 −4459 ± 1256
60000
40000
20000
0
−20000
−40000
pull
Entries 105
Mean 522.4
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.003385
Std Dev 1.037
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

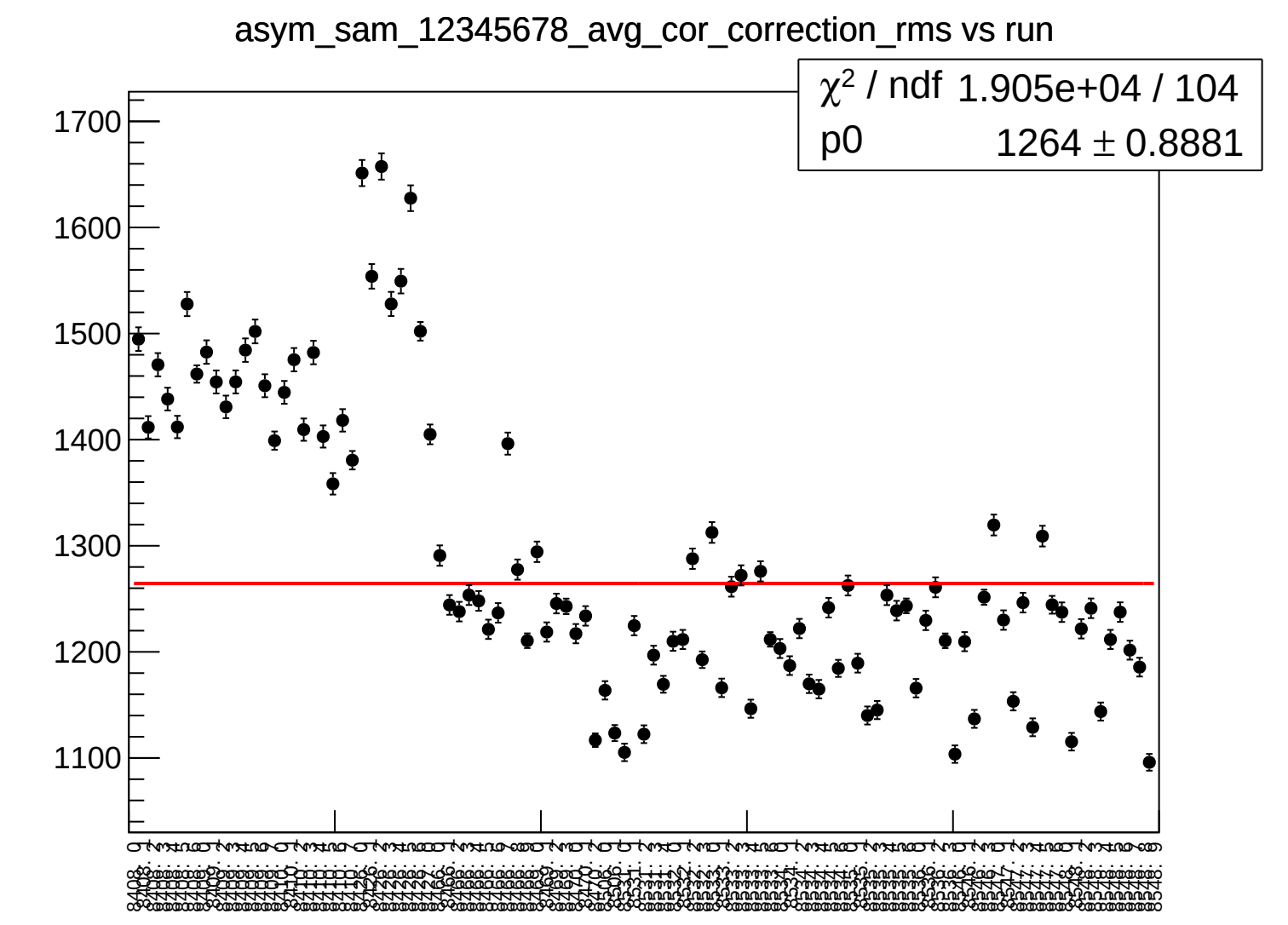

asym_sam_12345678_avg_reg_correction_rms vs run
χ² / ndf 1.905e+04 / 104
p0 1264 ± 0.8881
1700
1600
1500
1400
1300
1200
1100

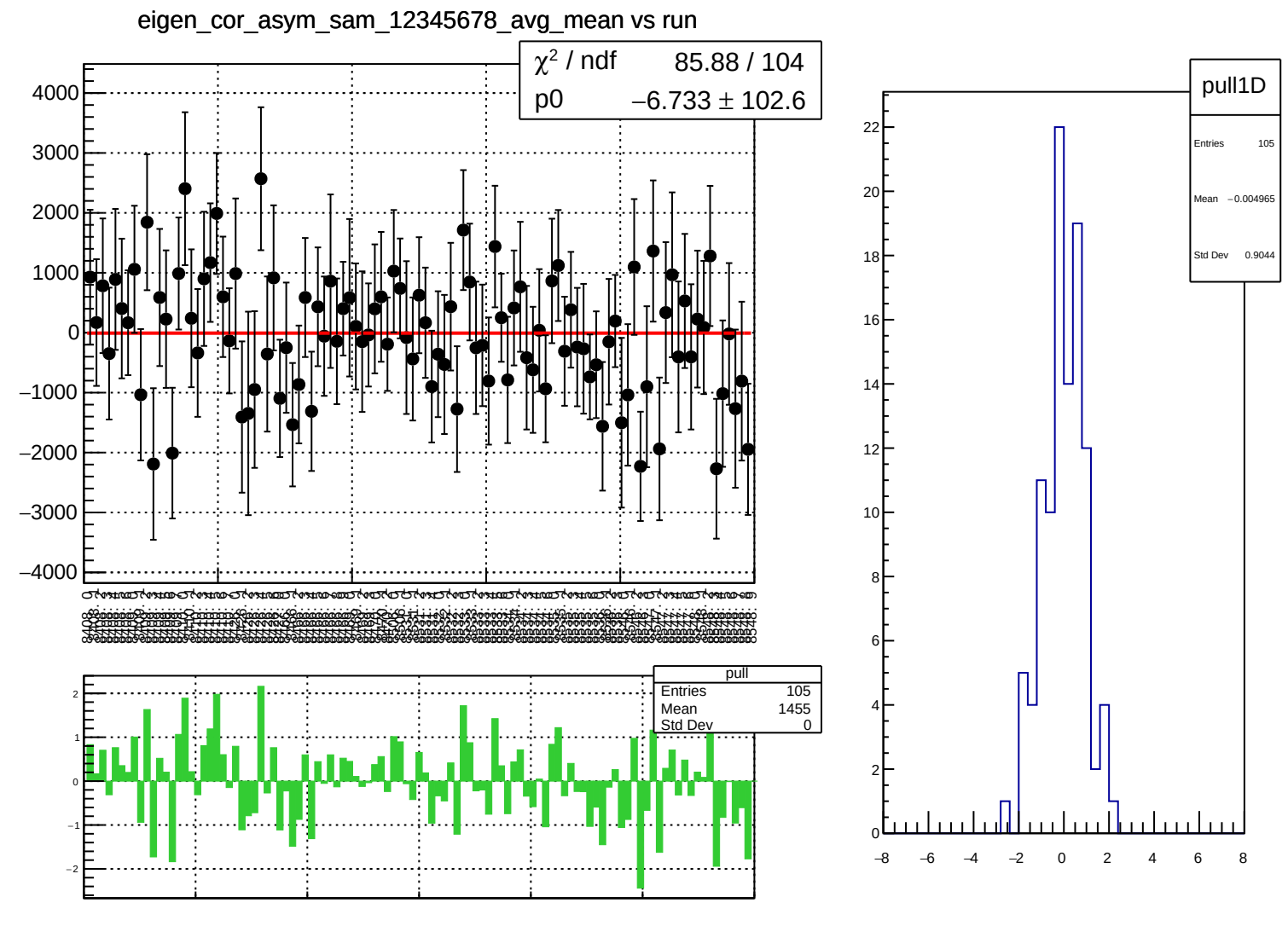

cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 85.88 / 104
p0 −6.733 ± 102.6
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 105
Mean 1455
Std Dev 0
2
1
0
−1
−2

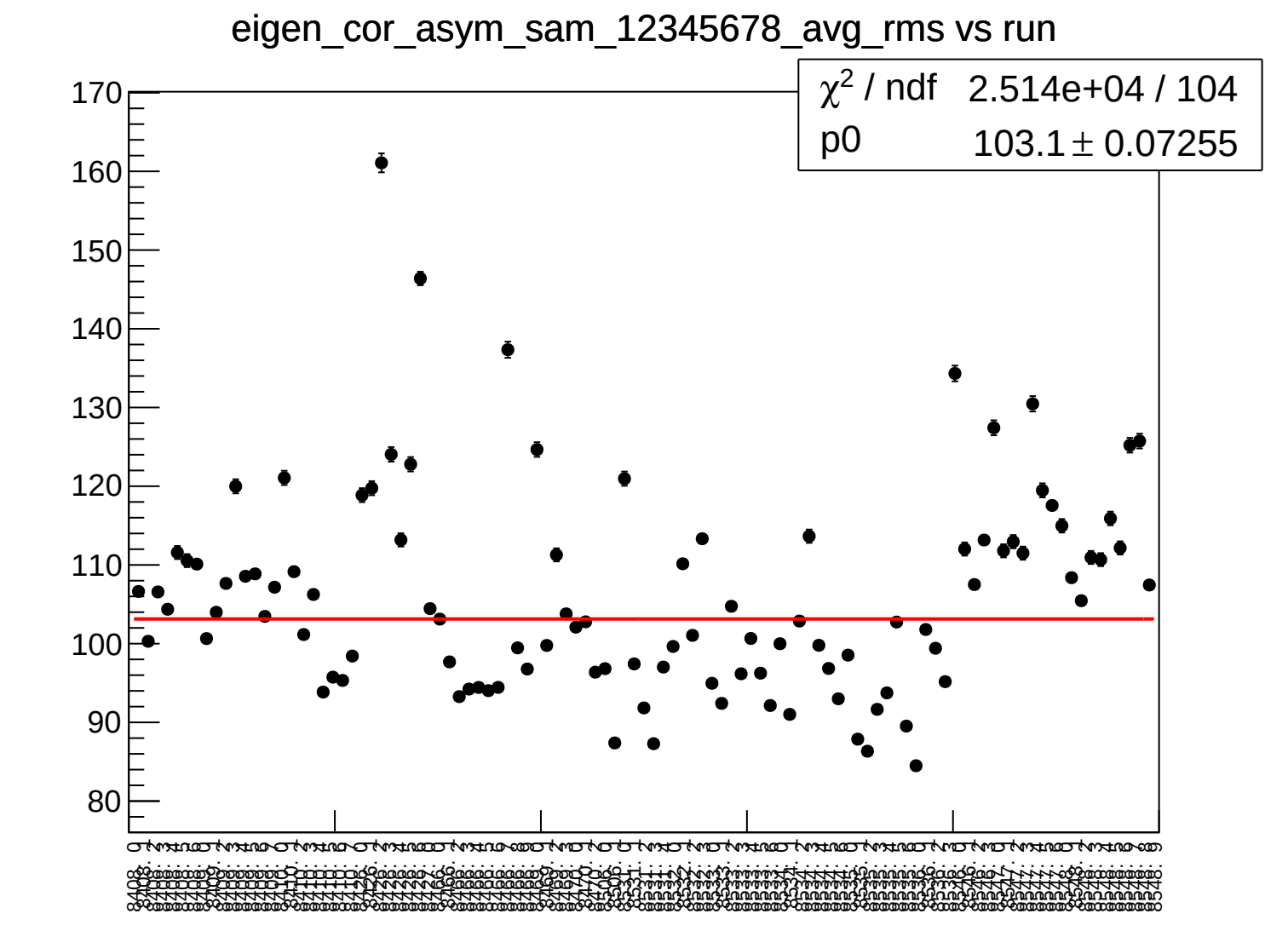

pull1D
Entries 105
Mean −0.004965
Std Dev 0.9044
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

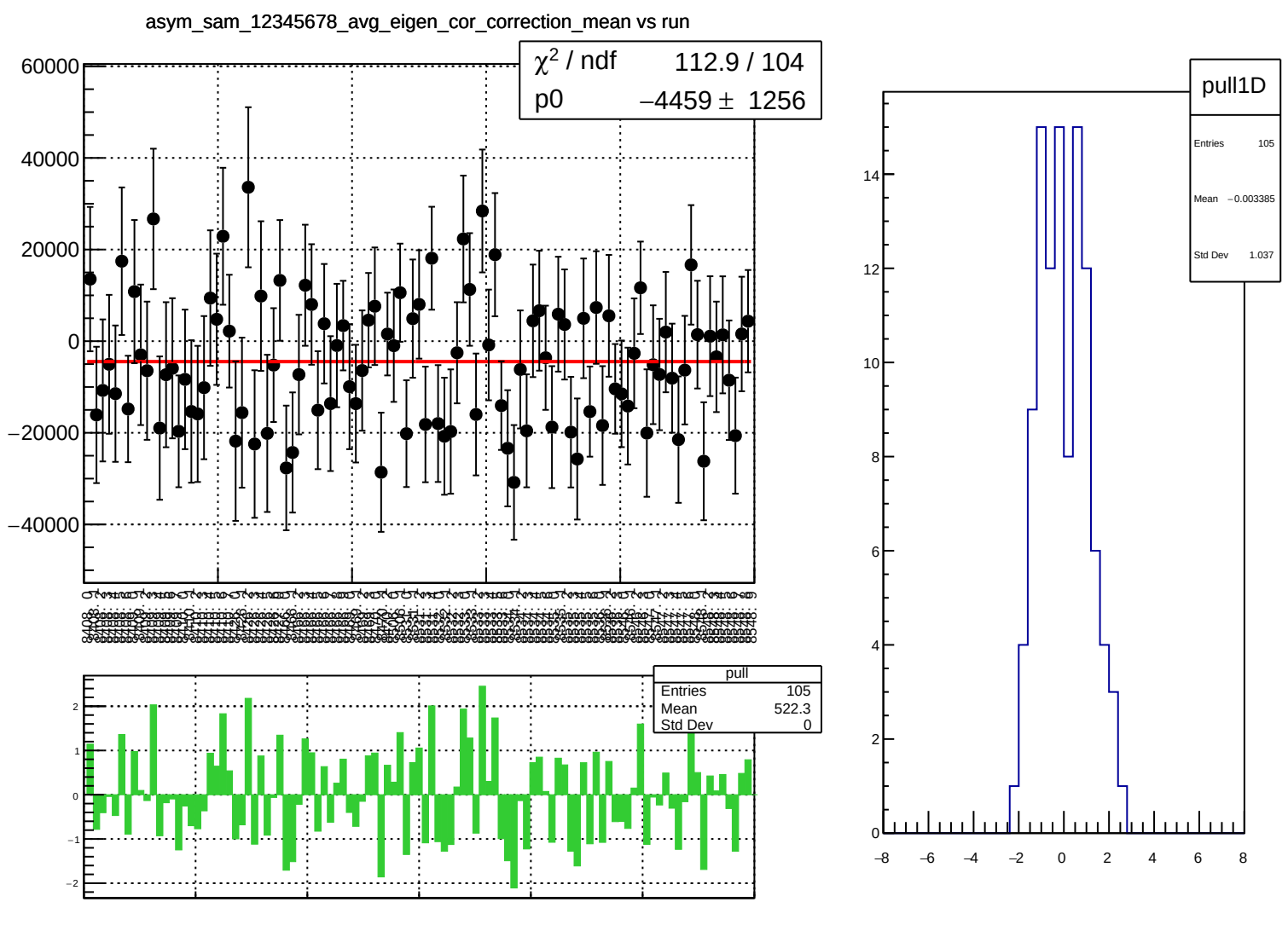

cor_asym_sam_12345678_avg_rms vs run
χ^2 / ndf 2.514e+04 / 104
p0 103.1 ± 0.07255
170
160
150
140
130
120
110
100
90
80

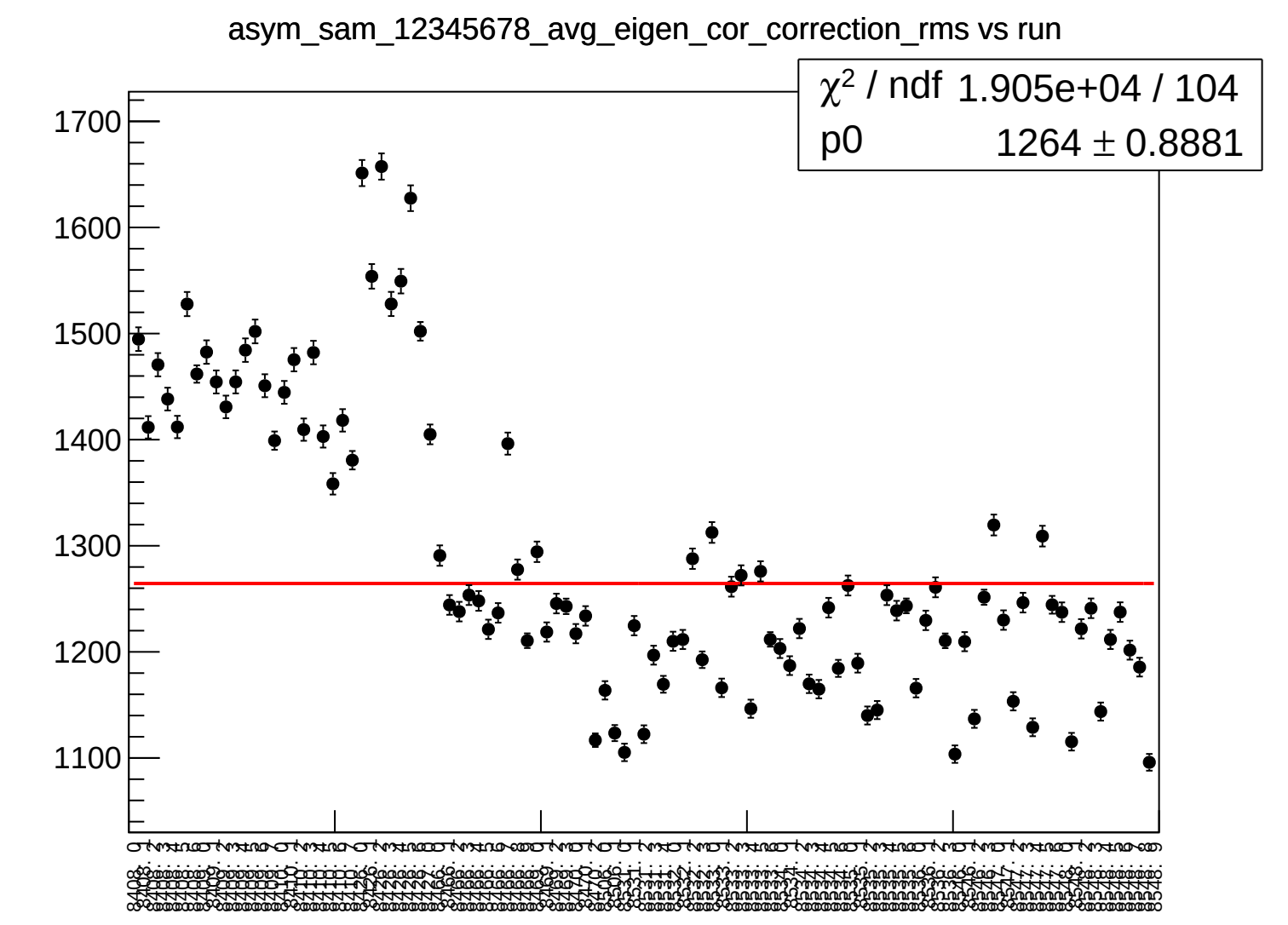

asym_sam_12345678_avg_cor_correction_mean vs run
χ² / ndf 112.9 / 104
p0 −4459 ± 1256
60000
40000
20000
0
−20000
−40000
pull
Entries 105
Mean 522.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.003385
Std Dev 1.037
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

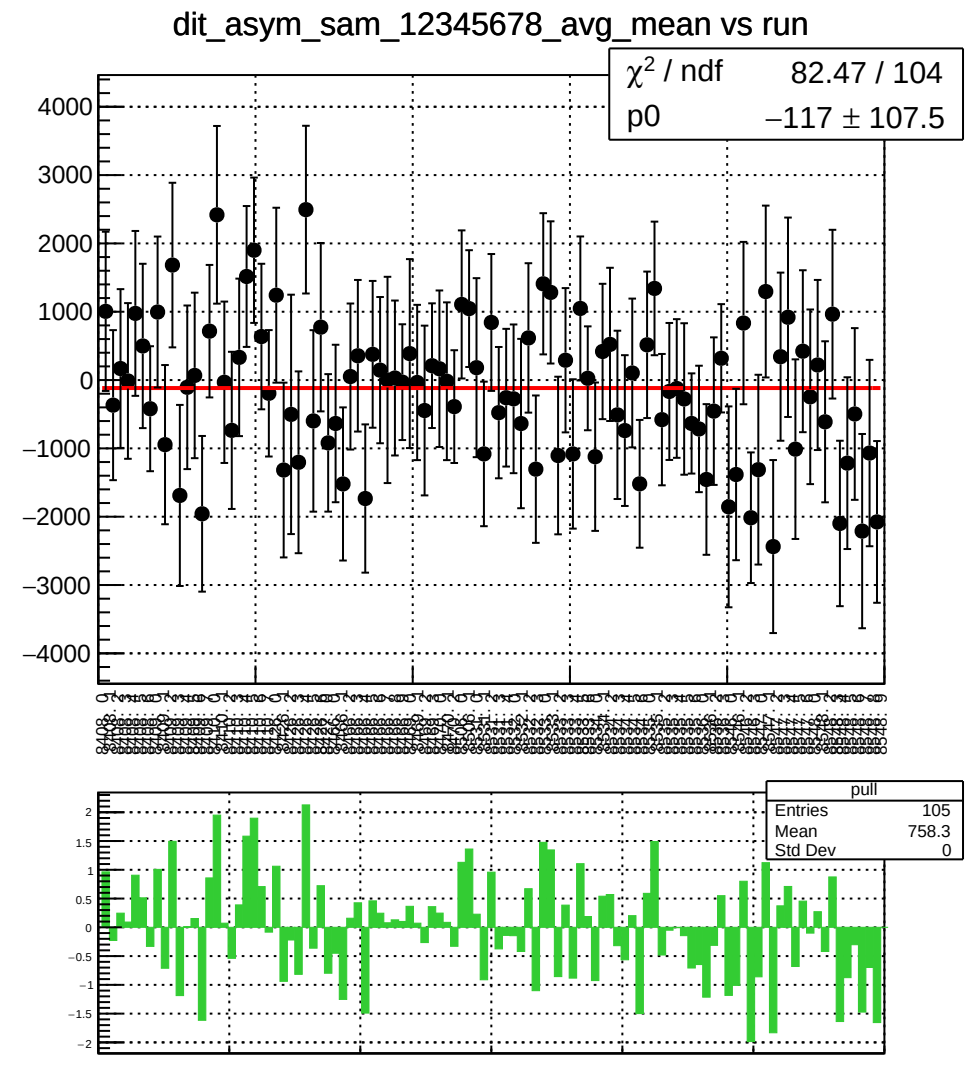

asym_sam_12345678_avg_cor_correction_rms vs run
χ^2 / ndf 1.905e+04 / 104
p0 1264 ± 0.8881
1700
1600
1500
1400
1300
1200
1100

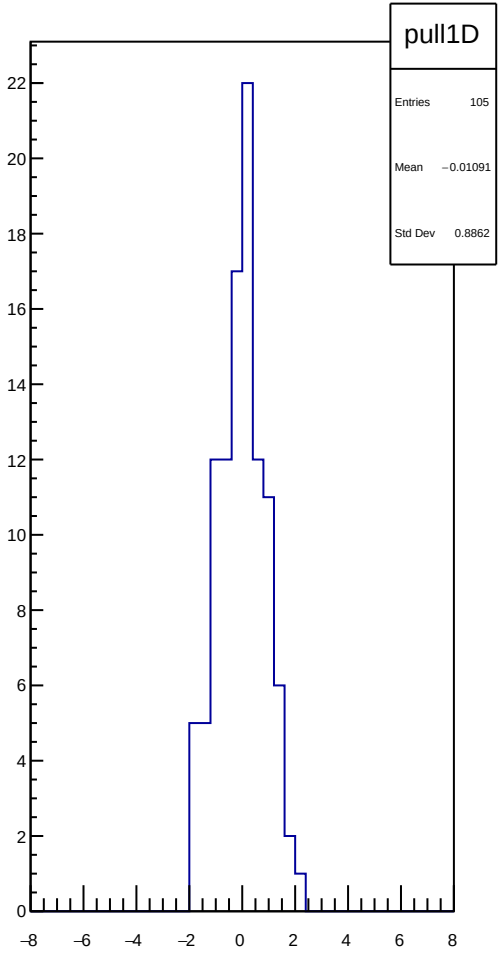

eigen_cor_asym_sam_12345678_avg_mean vs run
χ² / ndf 85.88 / 104
p0 −6.733 ± 102.6
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 105
Mean 1455
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.004965
Std Dev 0.9044
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

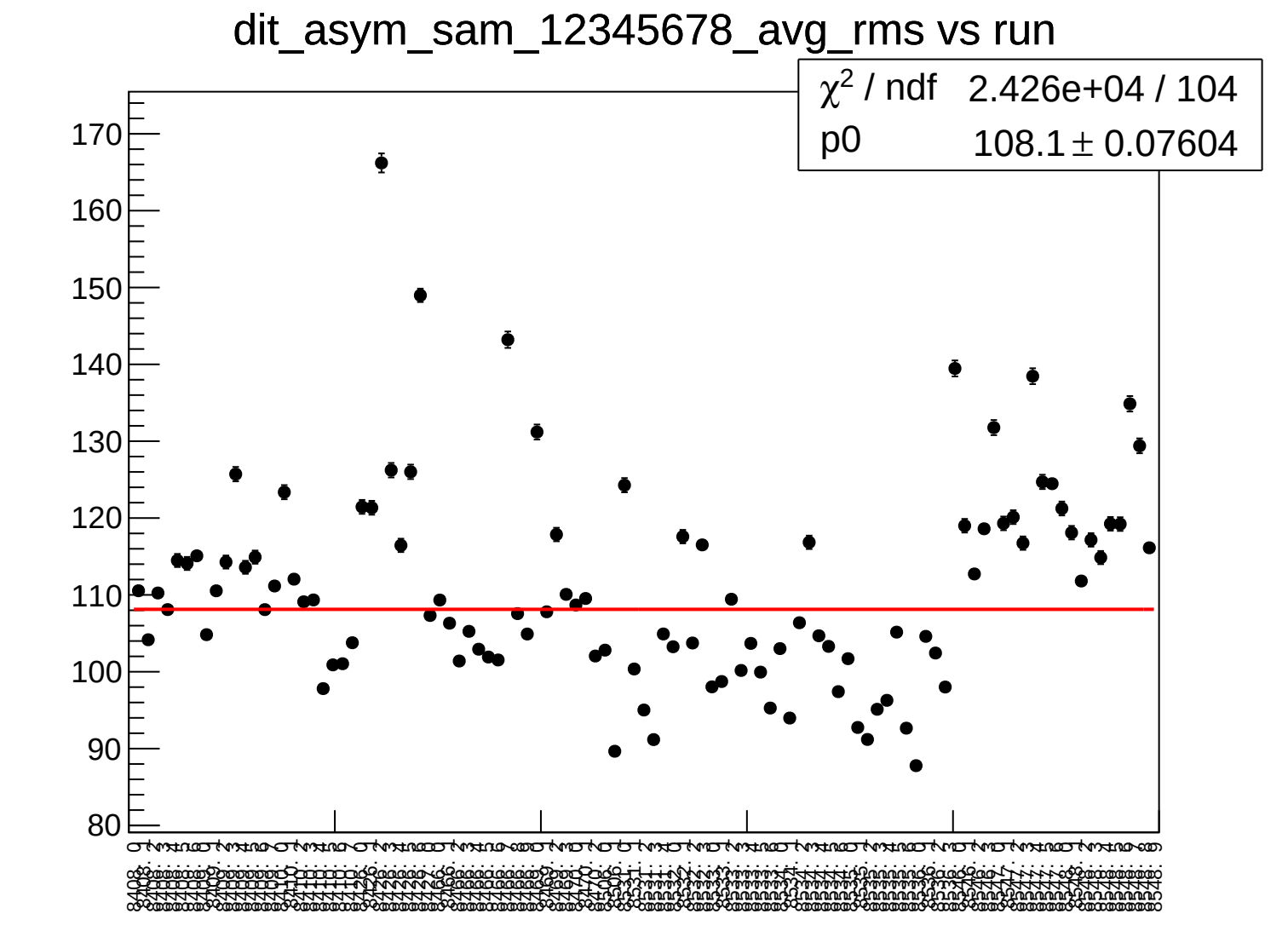

eigen_cor_asym_sam_12345678_avg_rms vs run
χ^2 / ndf 2.514e+04 / 104
p0 103.1 ± 0.07255
170
160
150
140
130
120
110
100
90
80

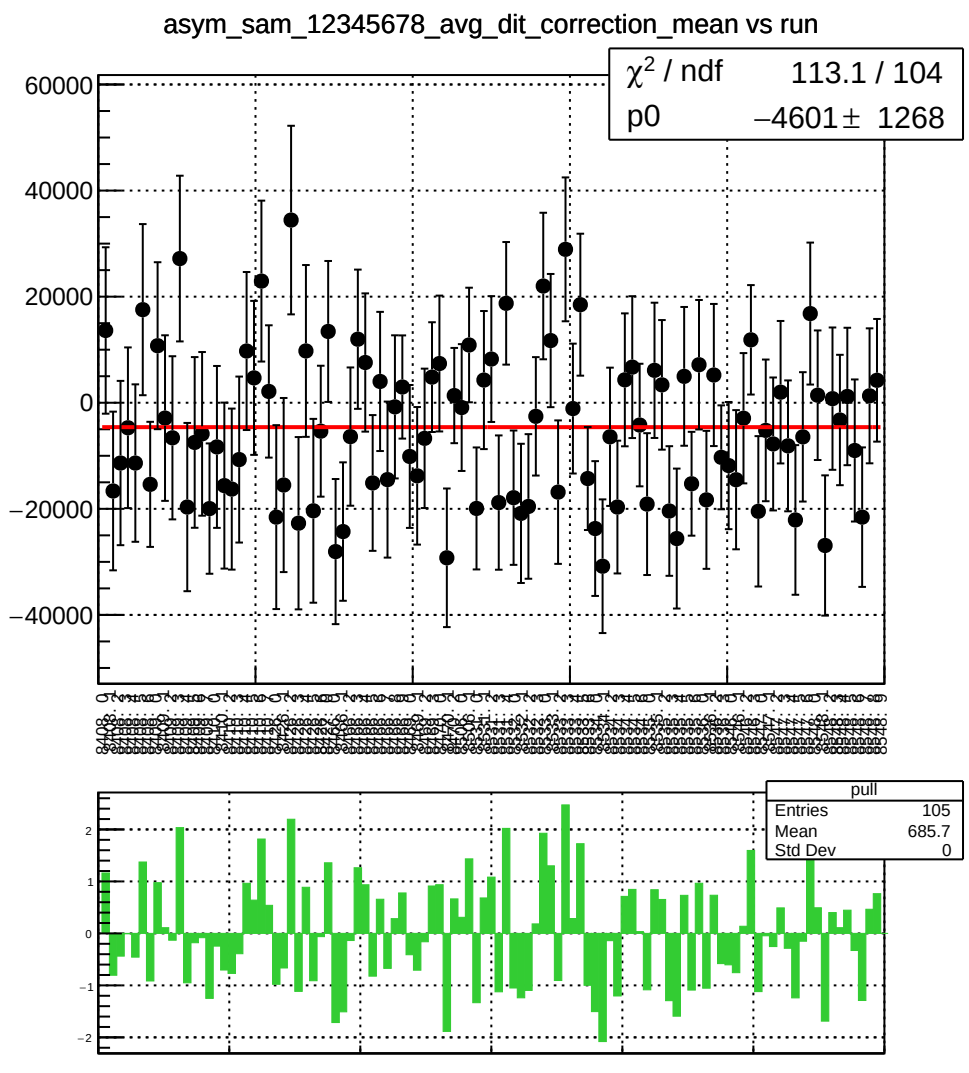

asym_sam_12345678_avg_eigen_cor_correction_mean vs run
χ² / ndf 112.9 / 104
p0 −4459 ± 1256
60000
40000
20000
0
−20000
−40000
pull
Entries 105
Mean 522.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.003385
Std Dev 1.037
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

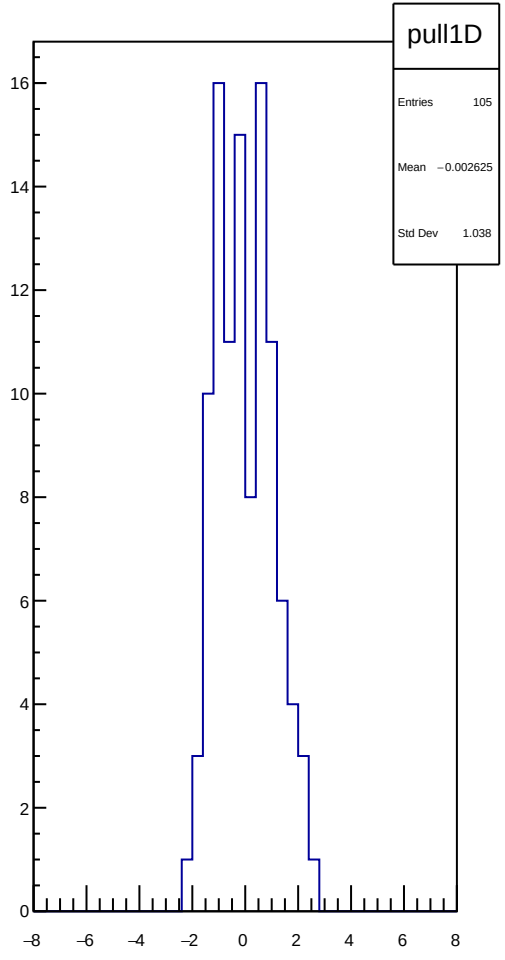

asym_sam_12345678_avg_eigen_cor_correction_rms vs run
χ² / ndf 1.905e+04 / 104
p0 1264 ± 0.8881
1700
1600
1500
1400
1300
1200
1100

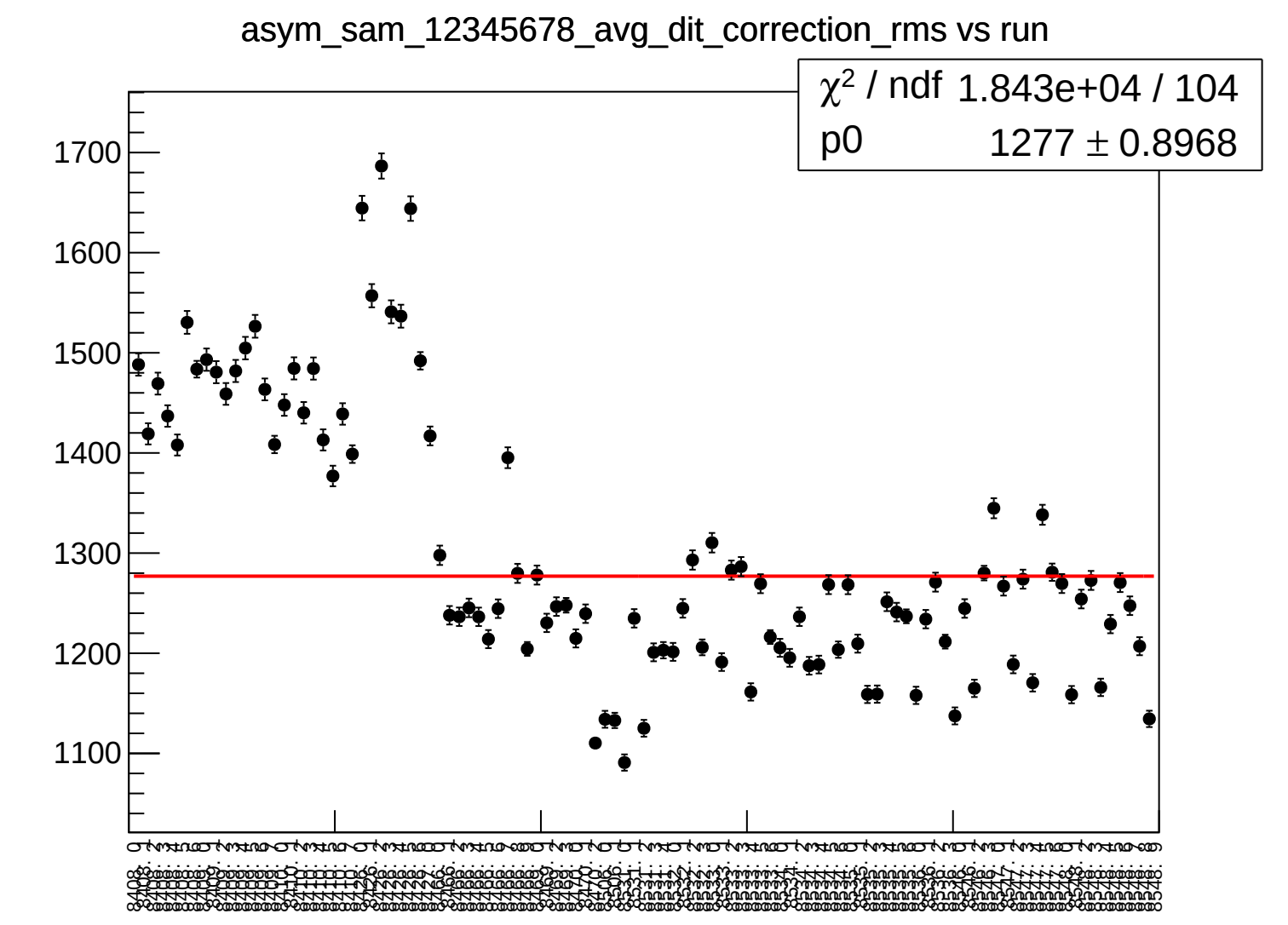

dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 82.47 / 104
p0 −117 ± 107.5
pull
Entries 105
Mean 758.3
Std Dev 0

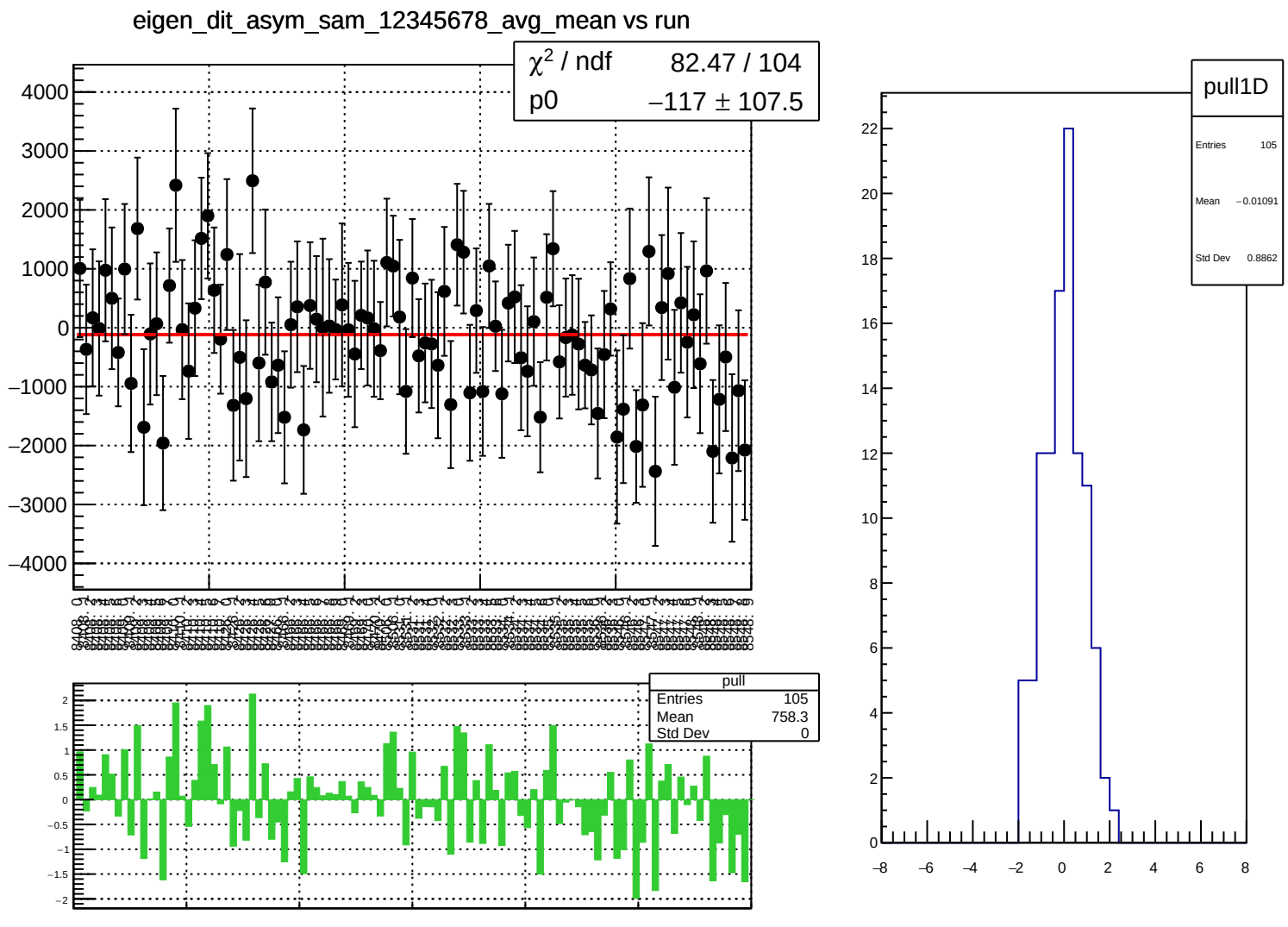

pull1D
Entries 105
Mean −0.01091
Std Dev 0.8862

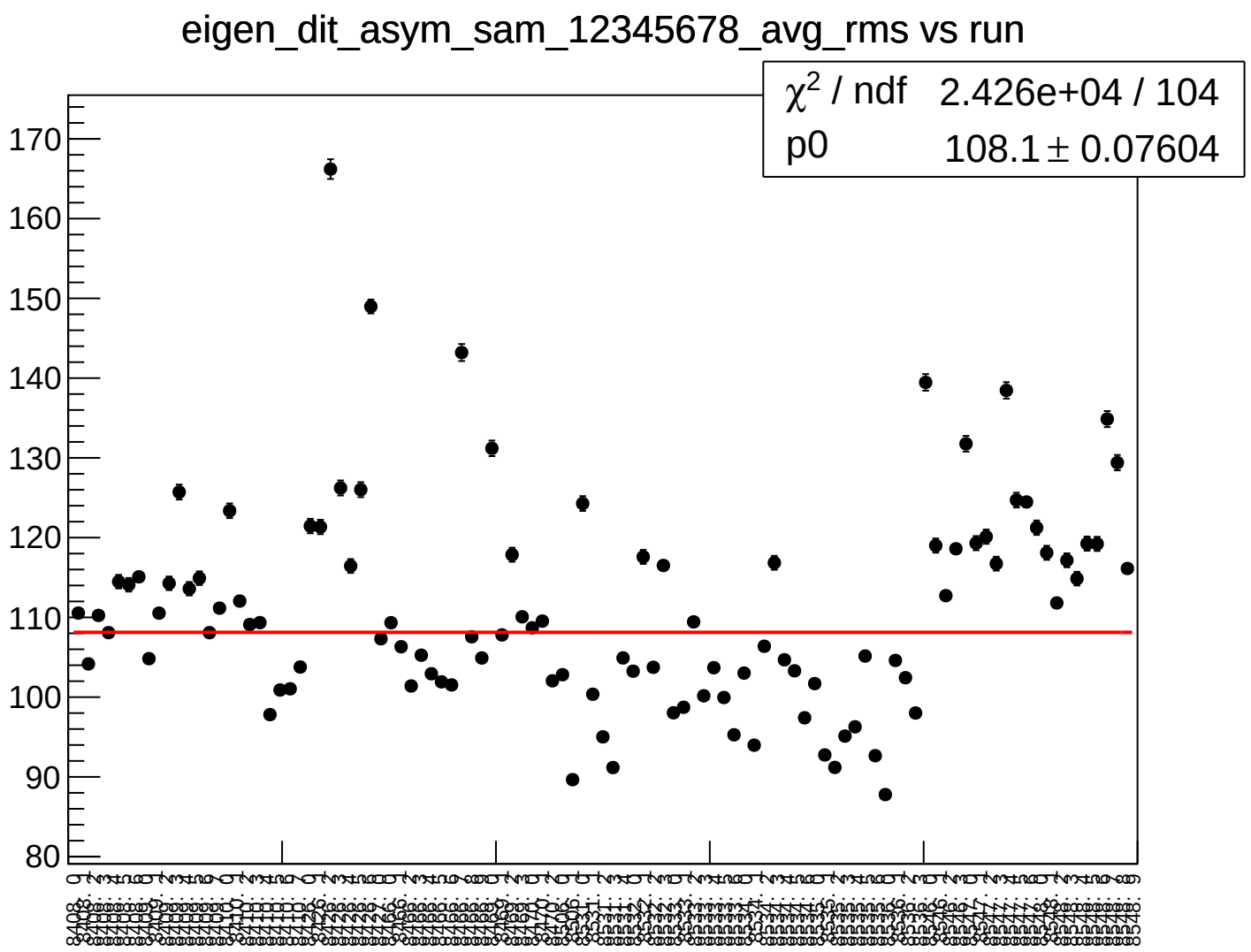

dit_asym_sam_12345678_avg_rms vs run
χ^2 / ndf 2.426e+04 / 104
p0 108.1 ± 0.07604
170
160
150
140
130
120
110
100
90
80

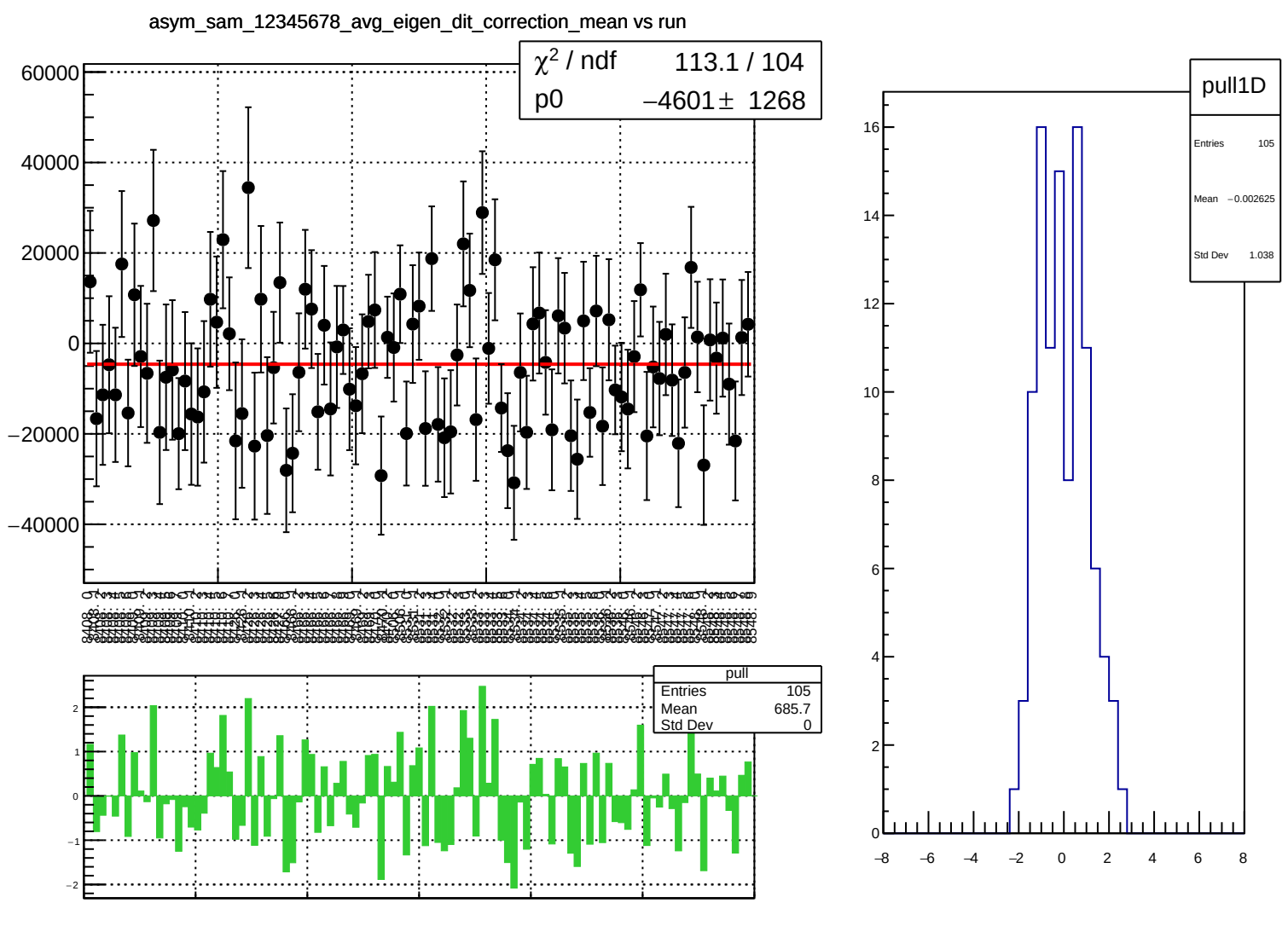

asym_sam_12345678_avg_dit_correction_mean vs run
χ² / ndf 113.1 / 104
p0 −4601 ± 1268
60000
40000
20000
0
−20000
−40000
pull
Entries 105
Mean 685.7
Std Dev 0
2
1
0
−1
−2

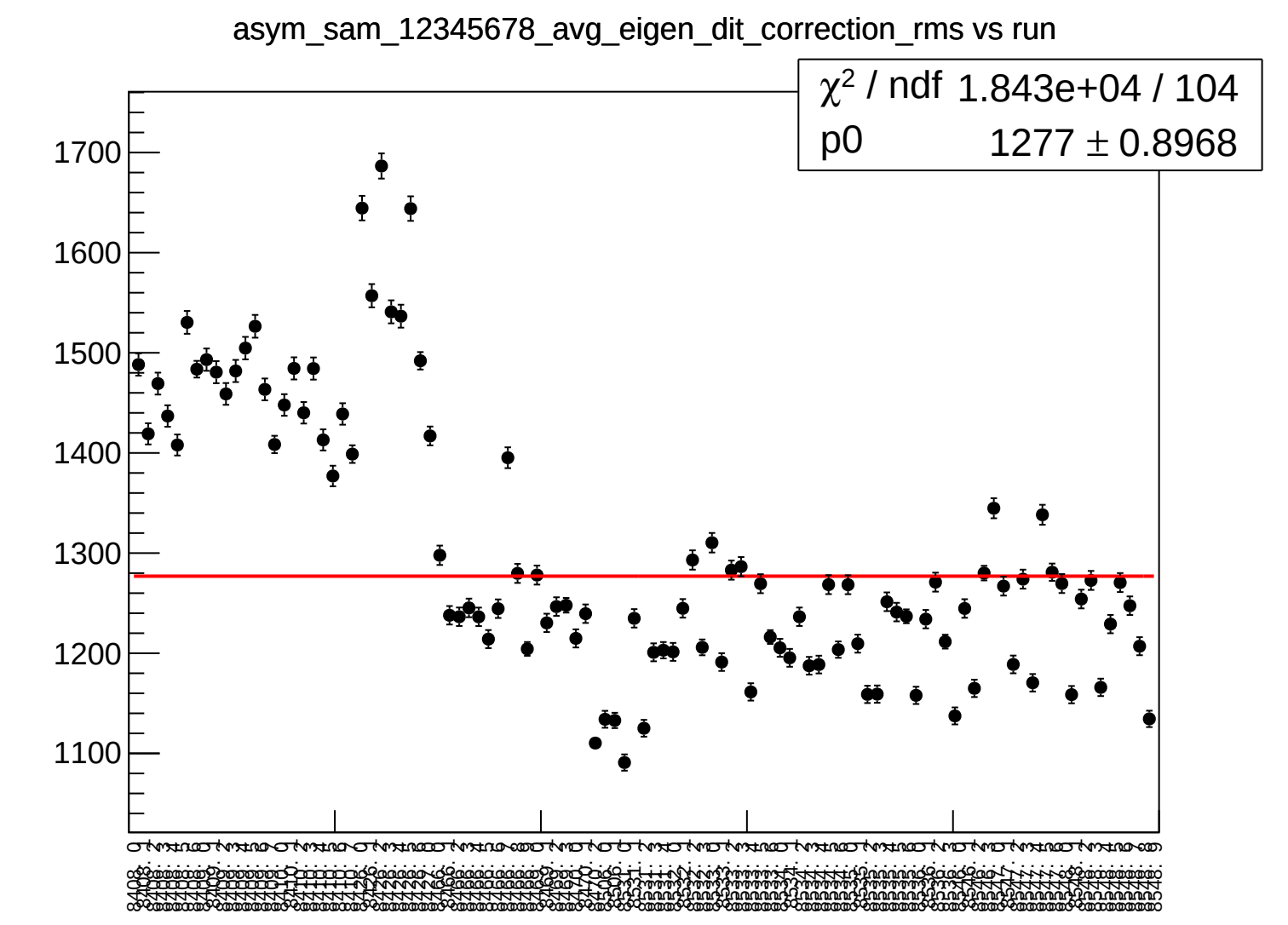

pull1D
Entries 105
Mean −0.002625
Std Dev 1.038
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

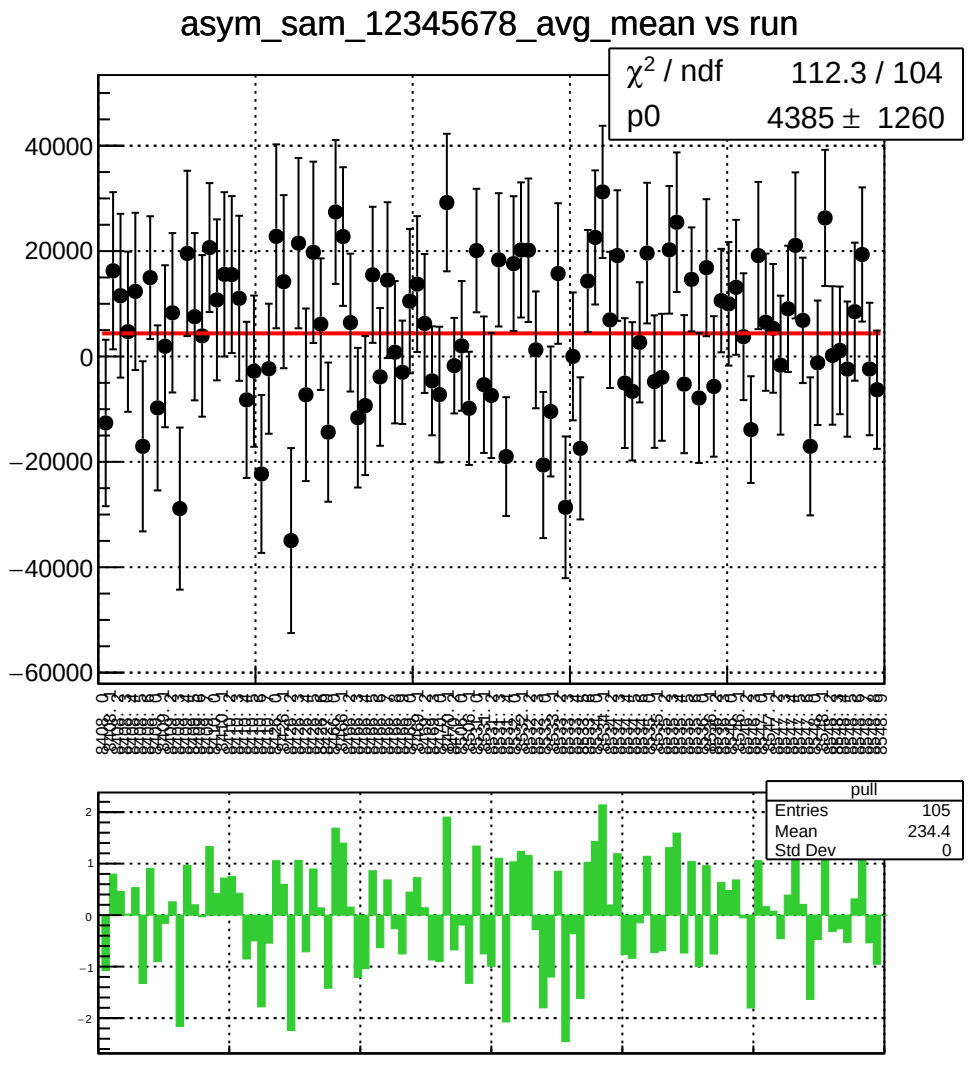

asym_sam_12345678_avg_dit_correction_rms vs run
χ² / ndf 1.843e+04 / 104
p0 1277 ± 0.8968
1700
1600
1500
1400
1300
1200
1100

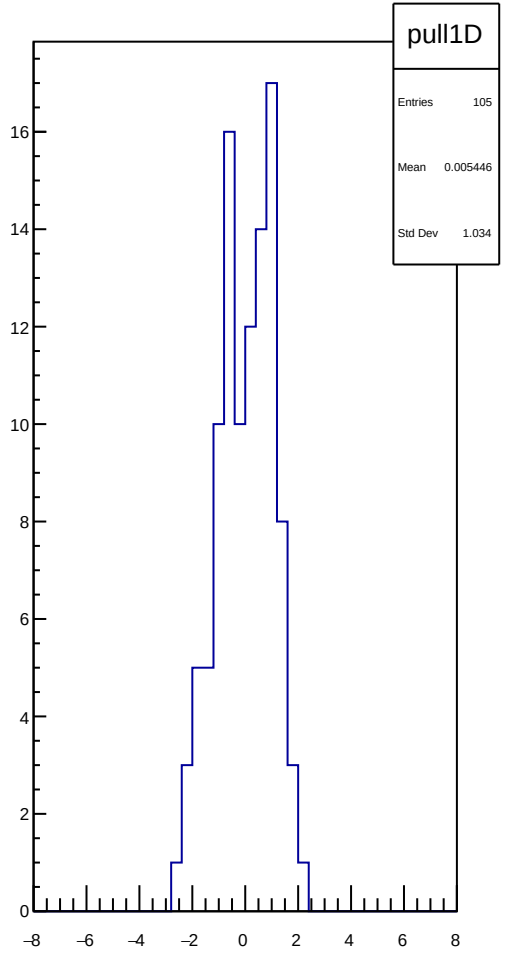

eigen_dit_asym_sam_12345678_avg_mean vs run
χ² / ndf 82.47 / 104
p0 −117 ± 107.5
pull
Entries 105
Mean 758.3
Std Dev 0
pull1D
Entries 105
Mean −0.01091
Std Dev 0.8862

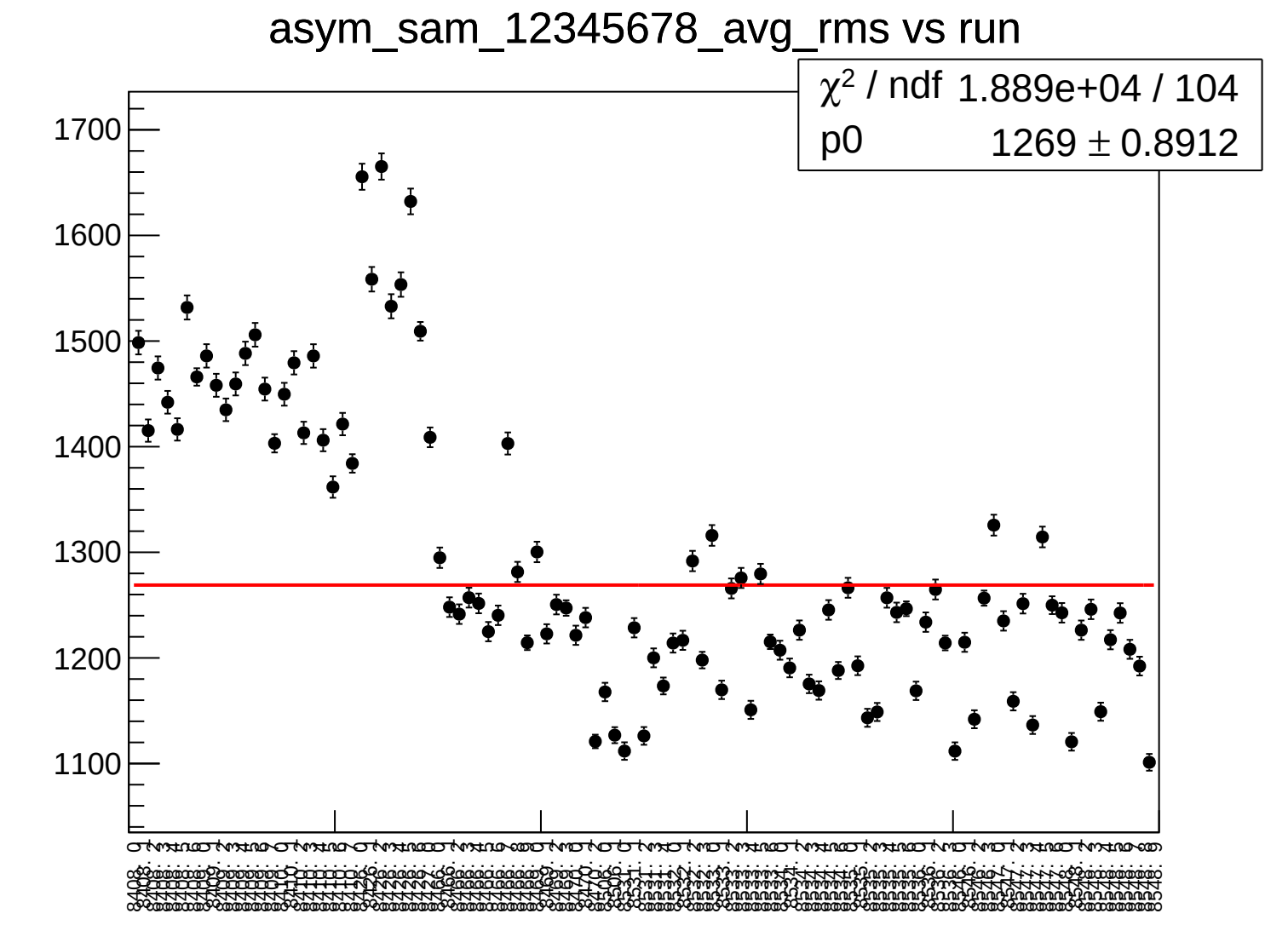

eigen_dit_asym_sam_12345678_avg_rms vs run
χ^2 / ndf 2.426e+04 / 104
p0 108.1 ± 0.07604
170
160
150
140
130
120
110
100
90
80

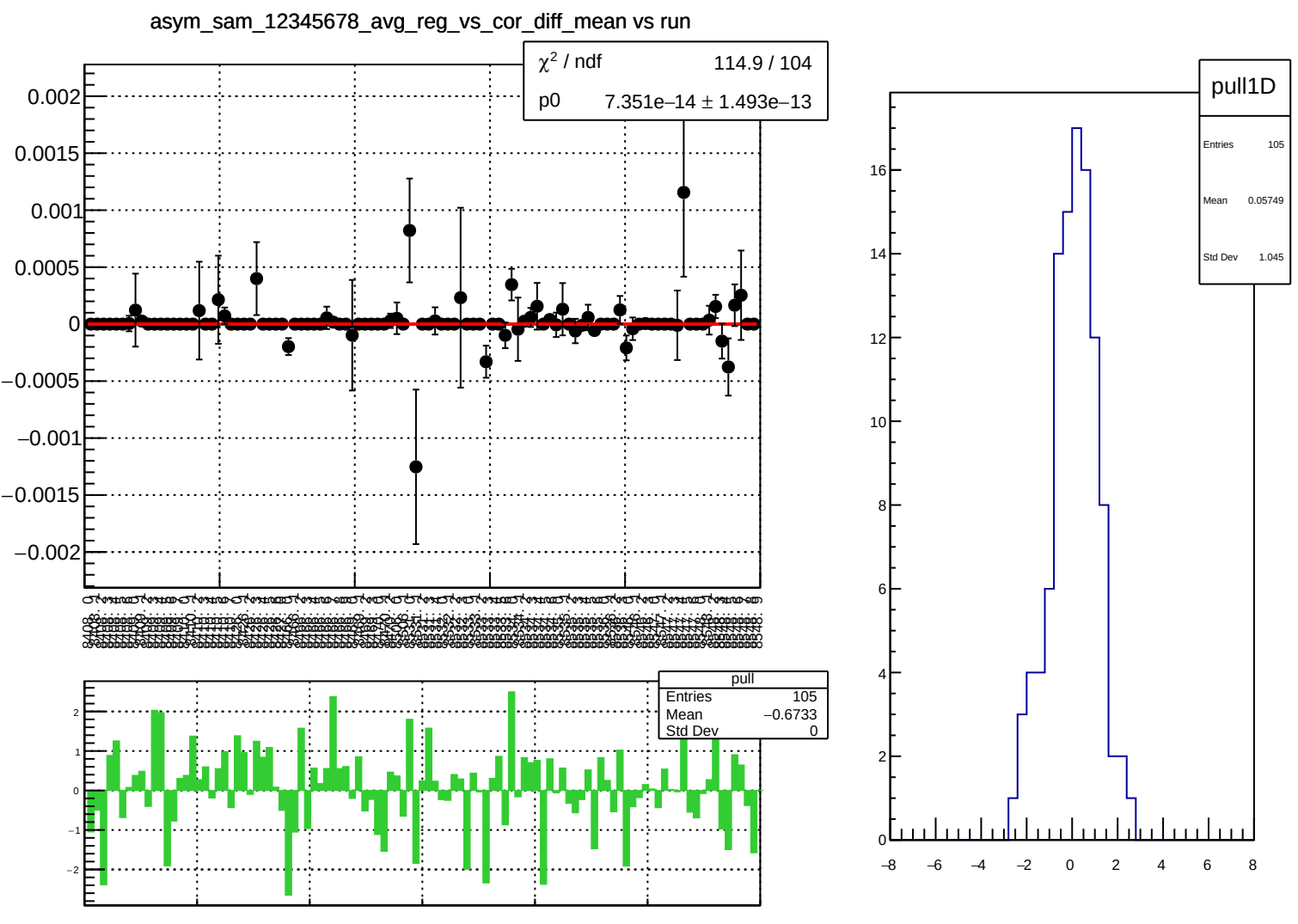

asym_sam_12345678_avg_eigen_dit_correction_mean vs run
χ² / ndf 113.1 / 104
p0 −4601 ± 1268
60000
40000
20000
0
−20000
−40000
pull
Entries 105
Mean 685.7
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.002625
Std Dev 1.038
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

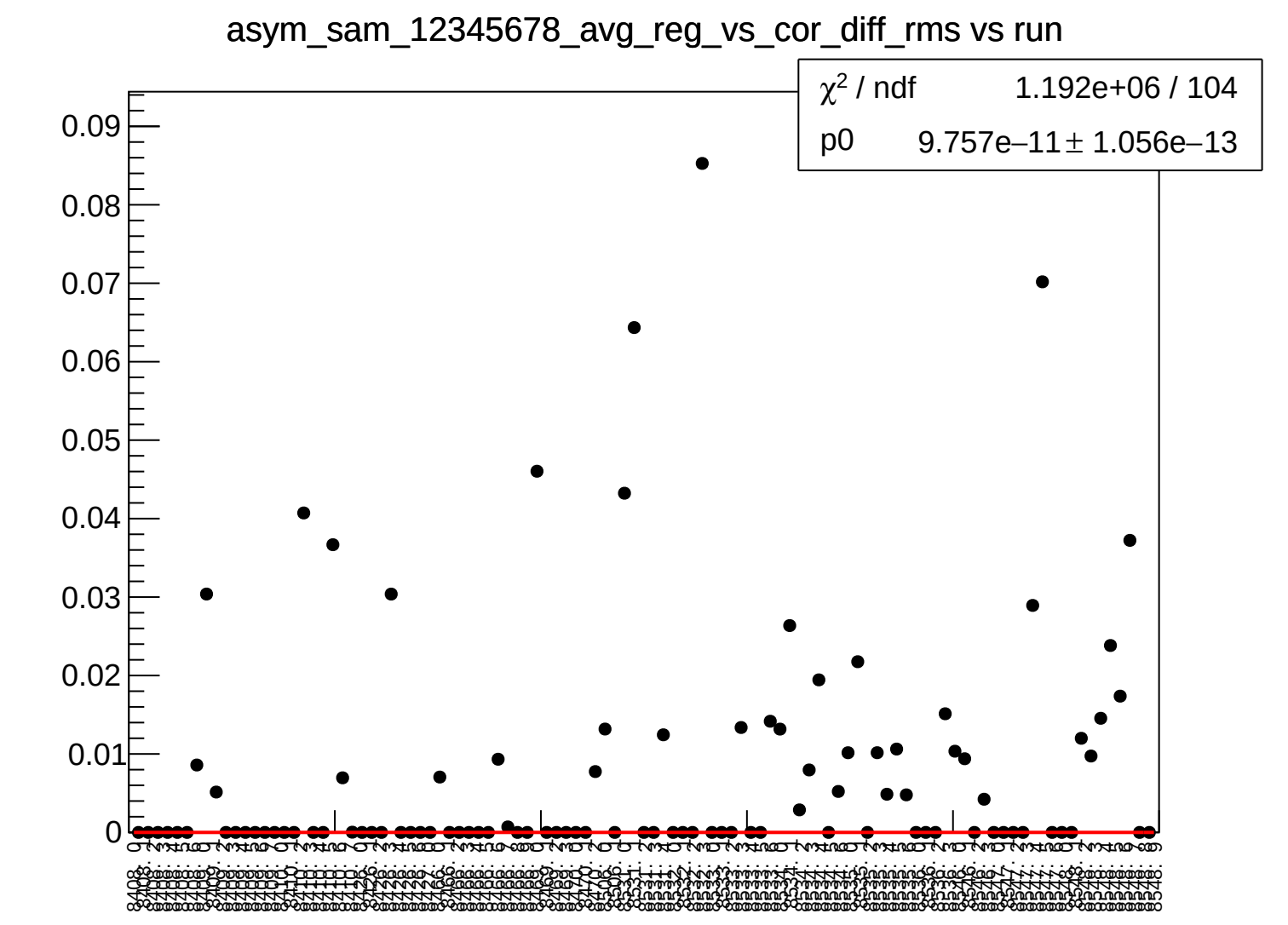

asym_sam_12345678_avg_eigen_dit_correction_rms vs run
χ² / ndf 1.843e+04 / 104
p0 1277 ± 0.8968
1700
1600
1500
1400
1300
1200
1100

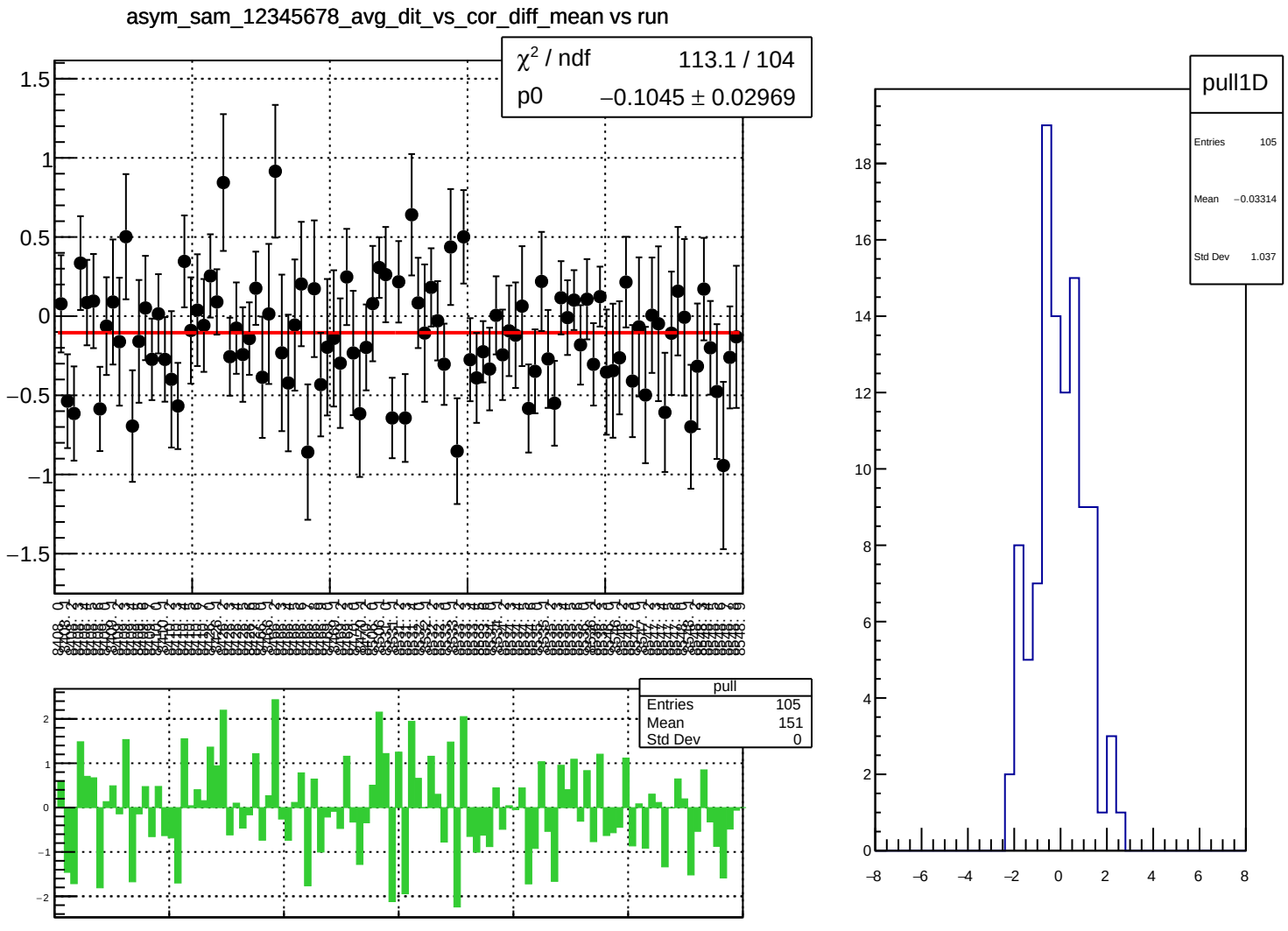

asym_sam_12345678_avg_mean vs run
χ² / ndf 112.3 / 104
p0 4385 ± 1260
40000
20000
0
−20000
−40000
−60000
pull
Entries 105
Mean 234.4
Std Dev 0
2
1
0
−1
−2

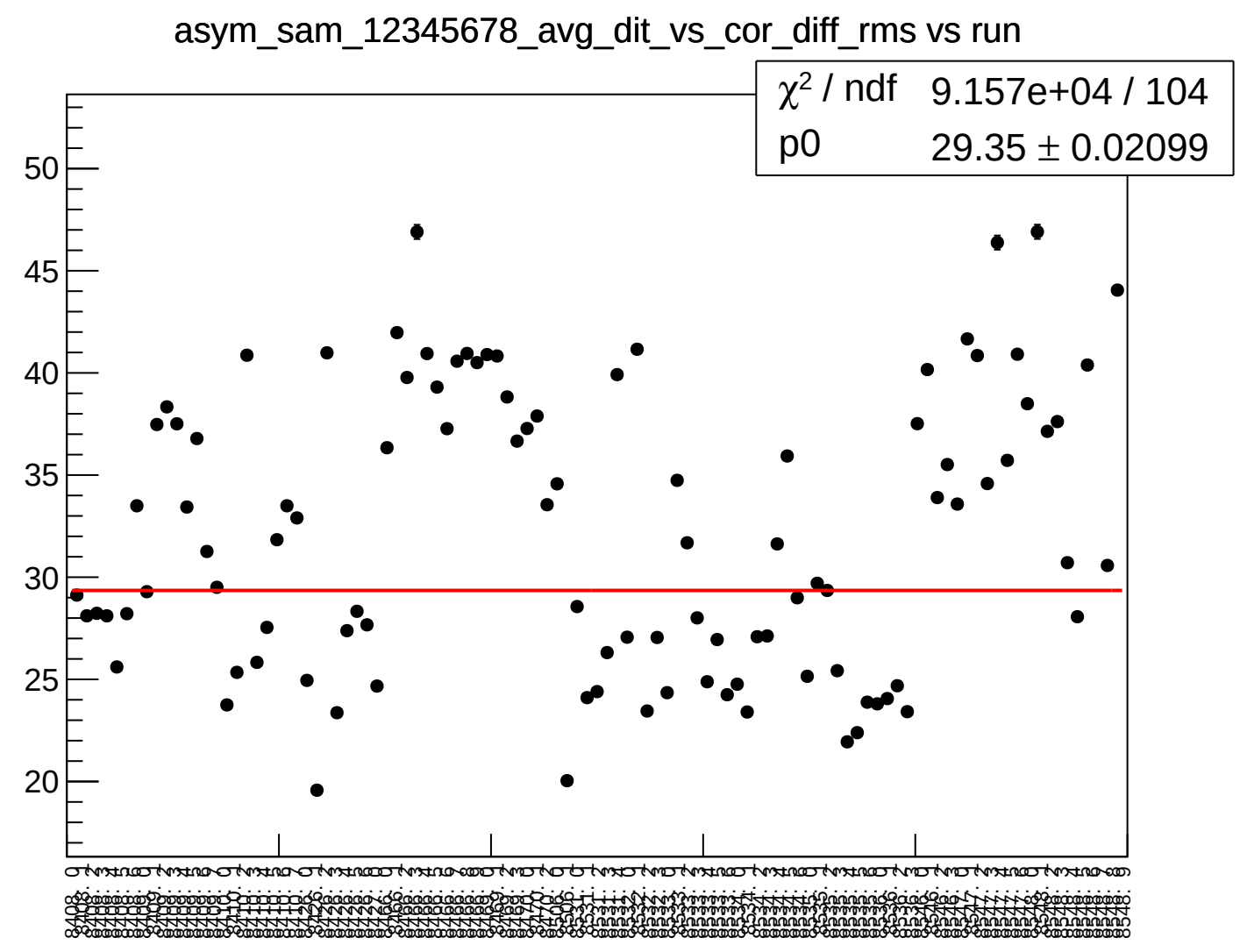

pull1D
Entries 105
Mean 0.005446
Std Dev 1.034
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

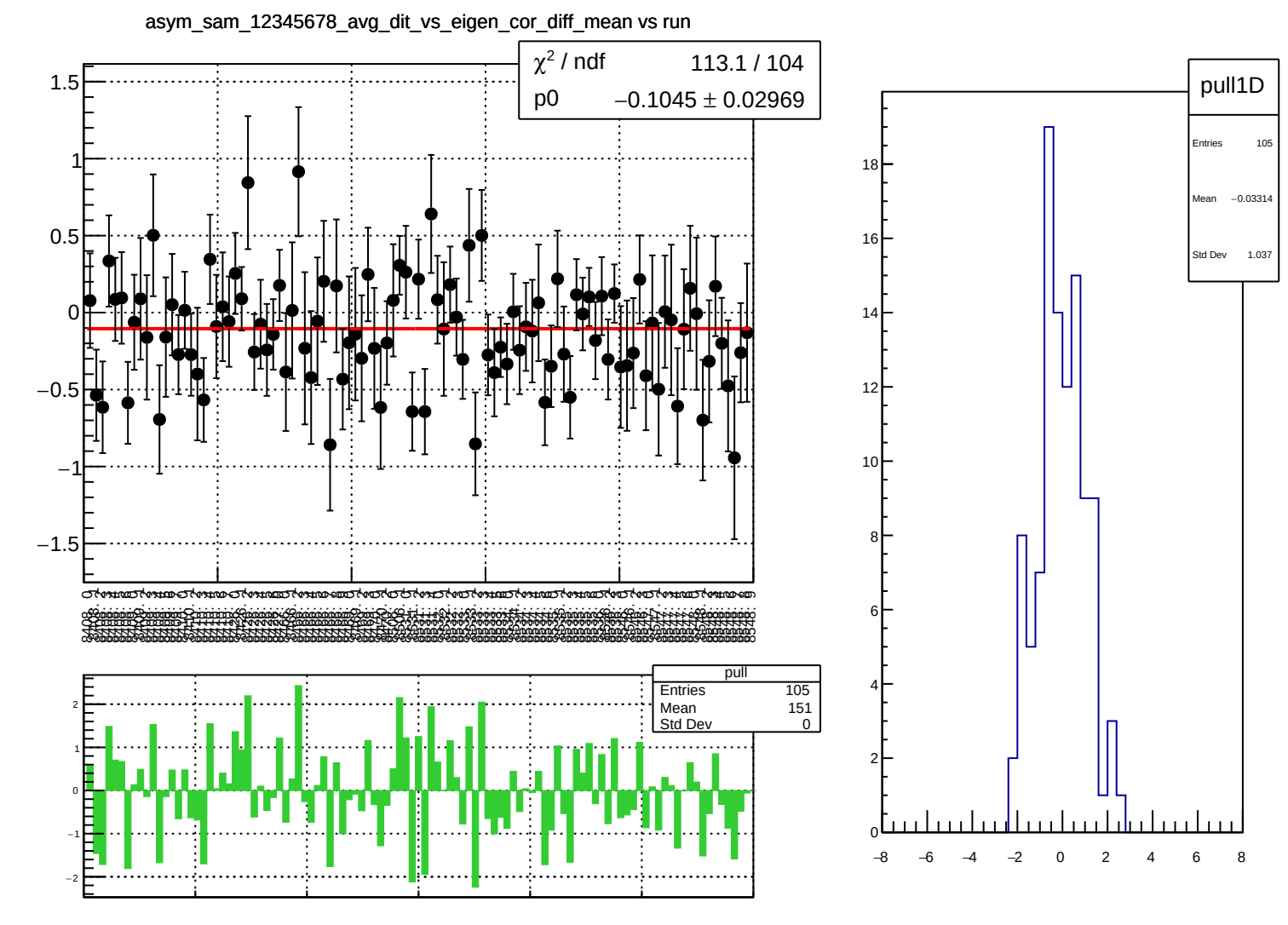

asym_sam_12345678_avg_rms vs run
χ² / ndf 1.889e+04 / 104
p0 1269 ± 0.8912
1700
1600
1500
1400
1300
1200
1100

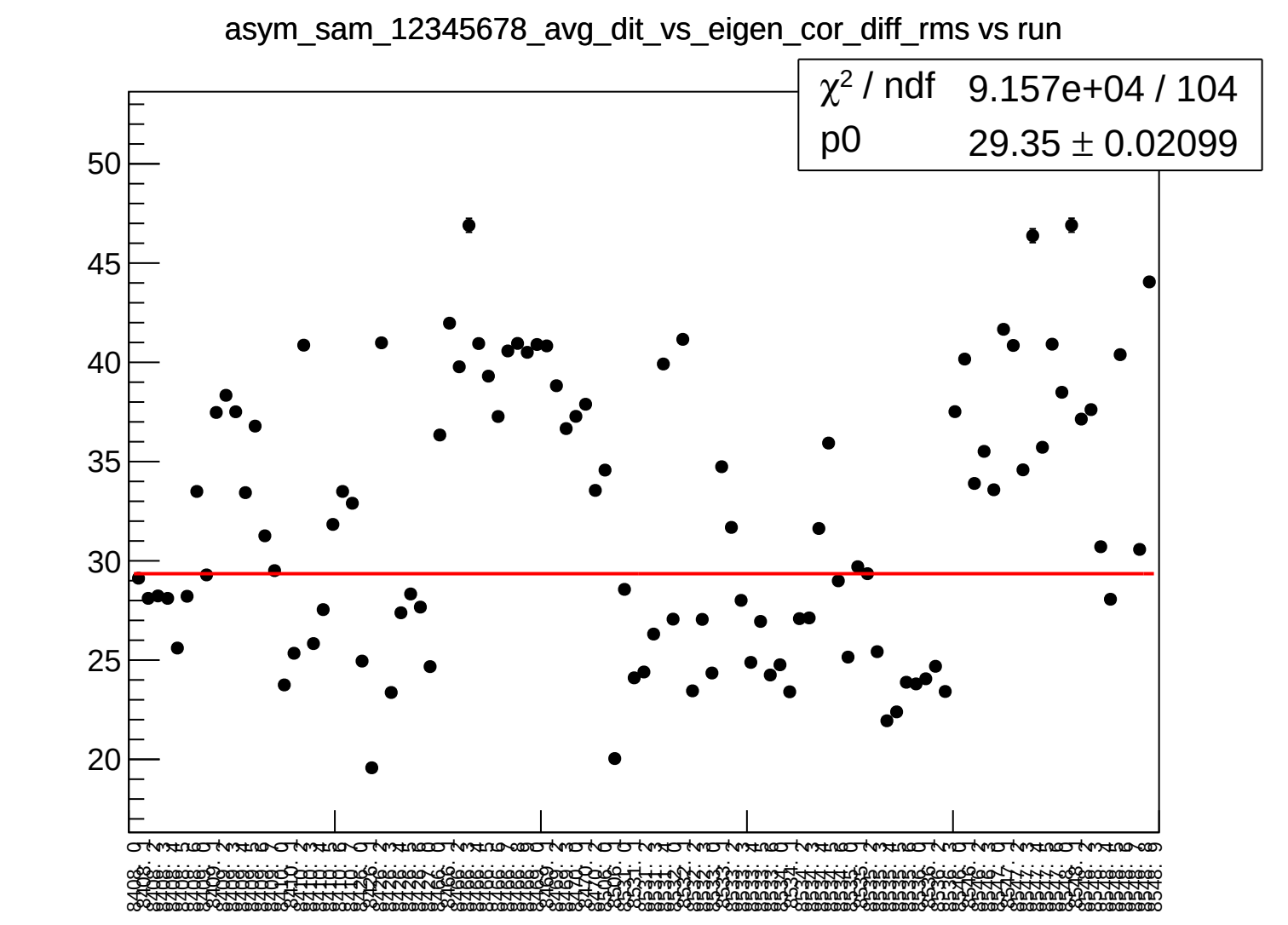

asym_sam_12345678_avg_reg_vs_cor_diff_mean vs run
χ² / ndf 114.9 / 104
p0 7.351e−14 ± 1.493e−13
0.002
0.0015
0.001
0.0005
0
−0.0005
−0.001
−0.0015
−0.002
pull
Entries 105
Mean −0.6733
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.05749
Std Dev 1.045
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

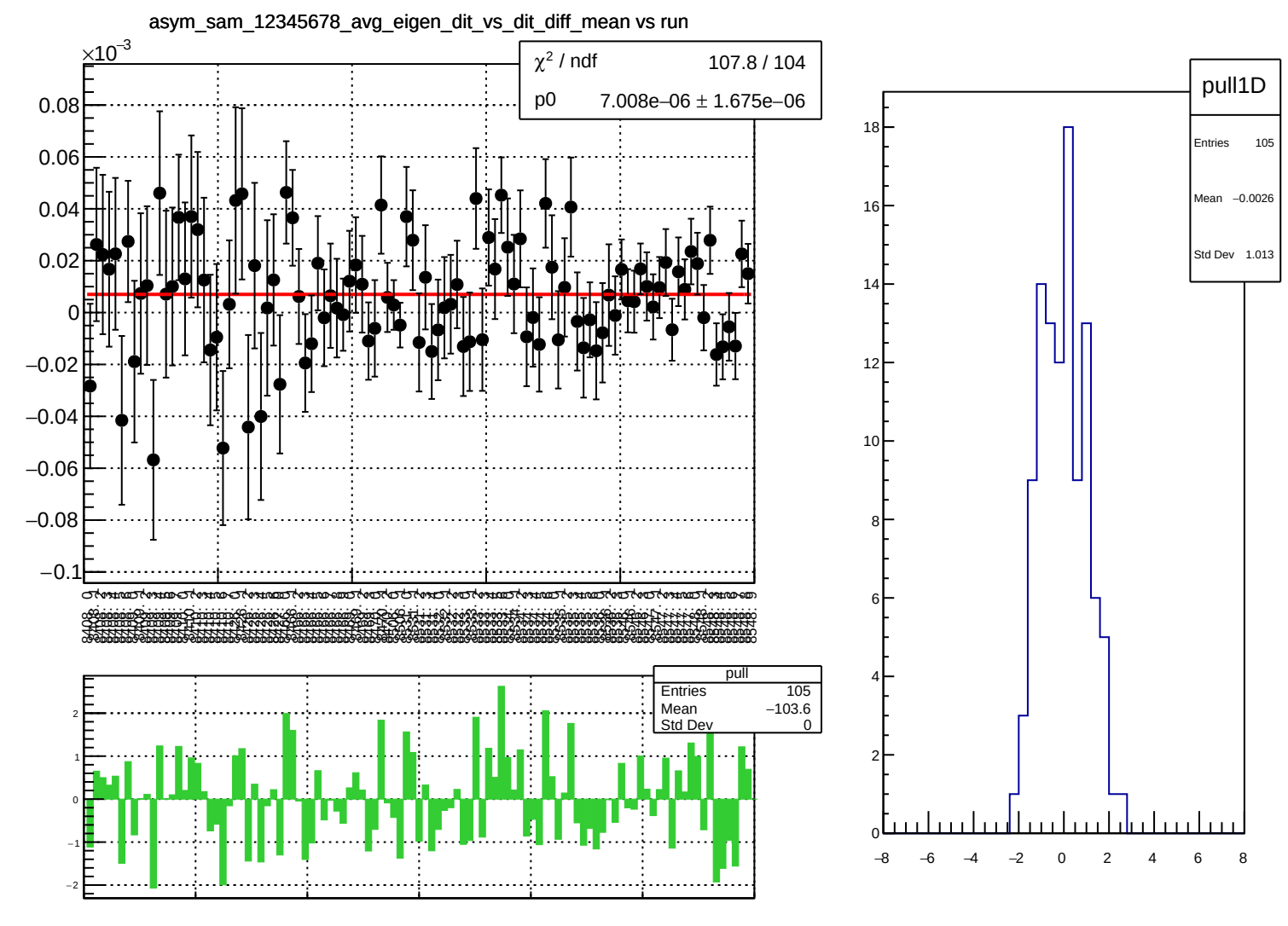

asym_sam_12345678_avg_reg_vs_cor_diff_rms vs run
χ² / ndf 1.192e+06 / 104
p0 9.757e−11 ± 1.056e−13
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0

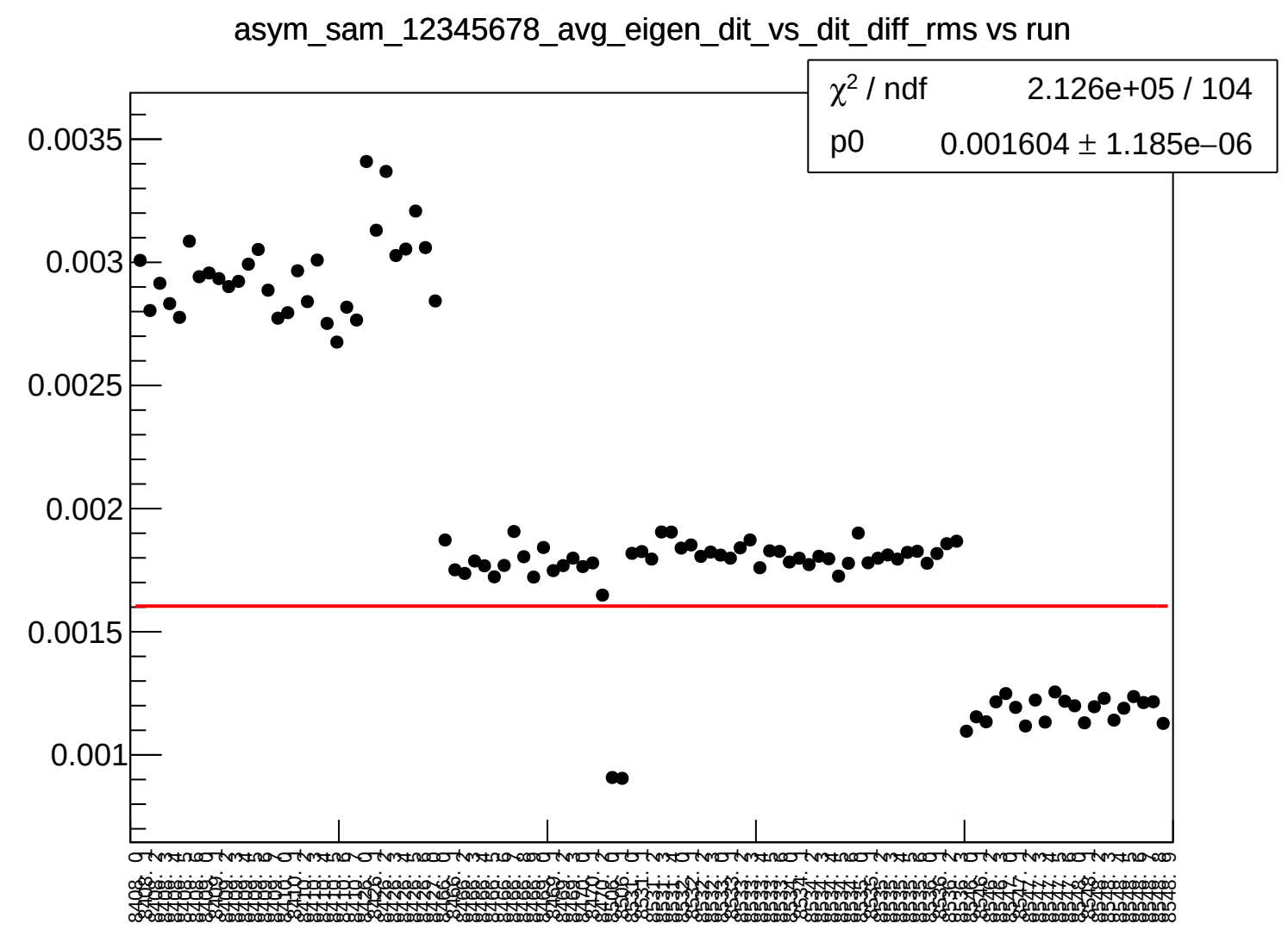

asym_sam_12345678_avg_dit_vs_cor_diff_mean vs run
χ² / ndf 113.1 / 104
p0 −0.1045 ± 0.02969
pull
Entries 105
Mean 151
Std Dev 0
pull1D
Entries 105
Mean −0.03314
Std Dev 1.037

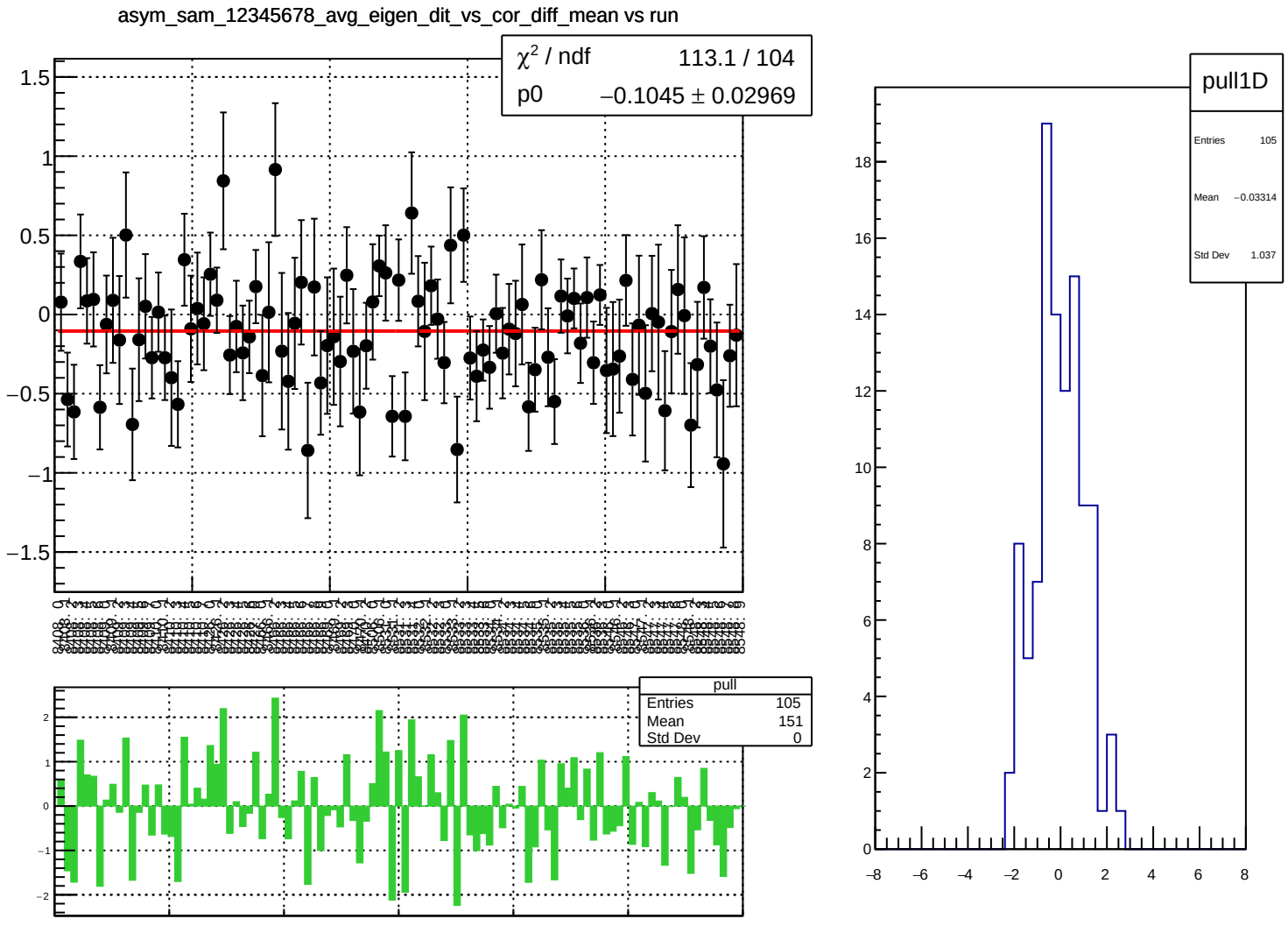

asym_sam_12345678_avg_dit_vs_cor_diff_rms vs run
χ² / ndf 9.157e+04 / 104
p0 29.35 ± 0.02099
50
45
40
35
30
25
20

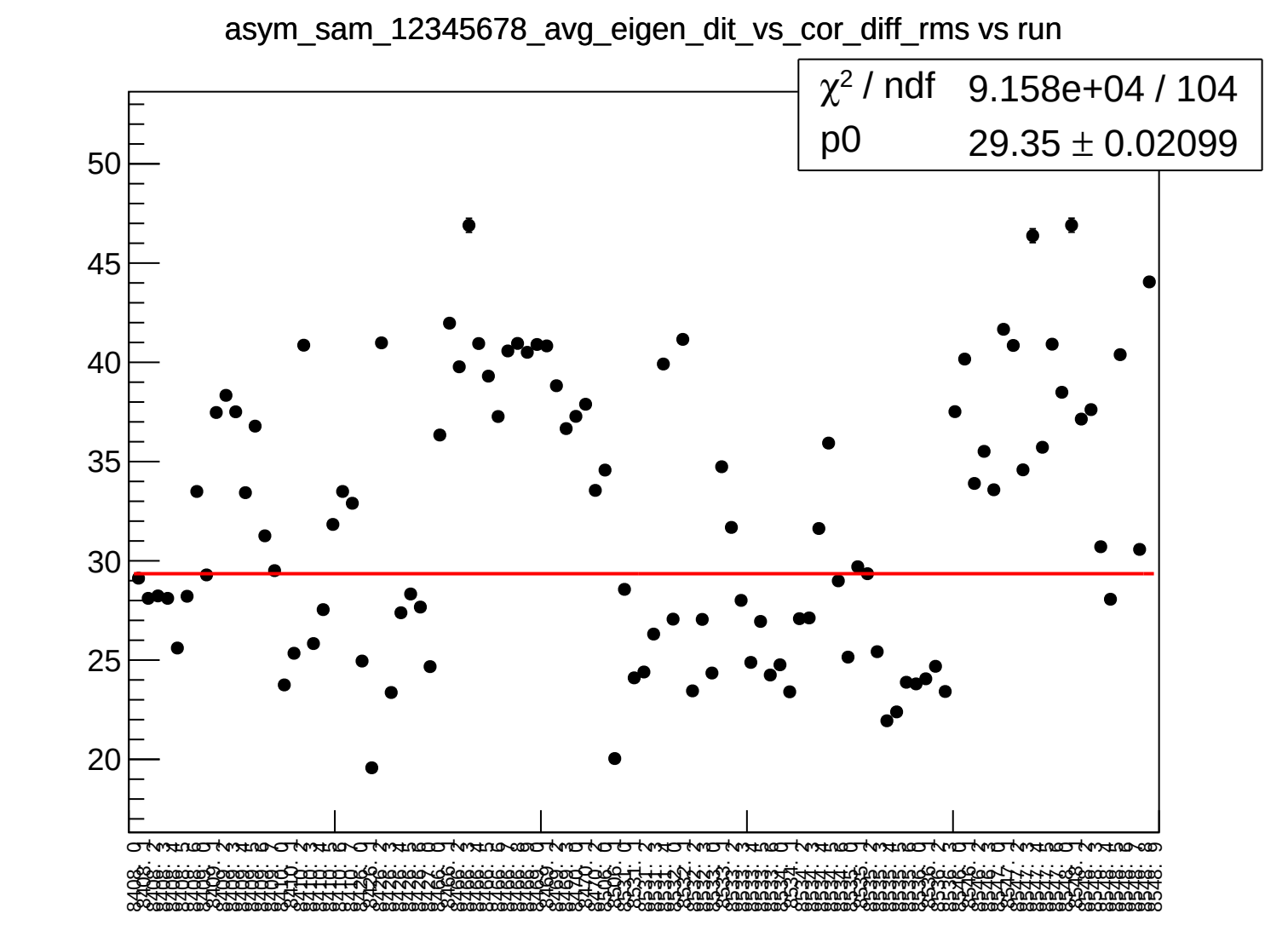

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 113.1 / 104
p0 −0.1045 ± 0.02969
pull
Entries 105
Mean 151
Std Dev 0
pull1D
Entries 105
Mean −0.03314
Std Dev 1.037

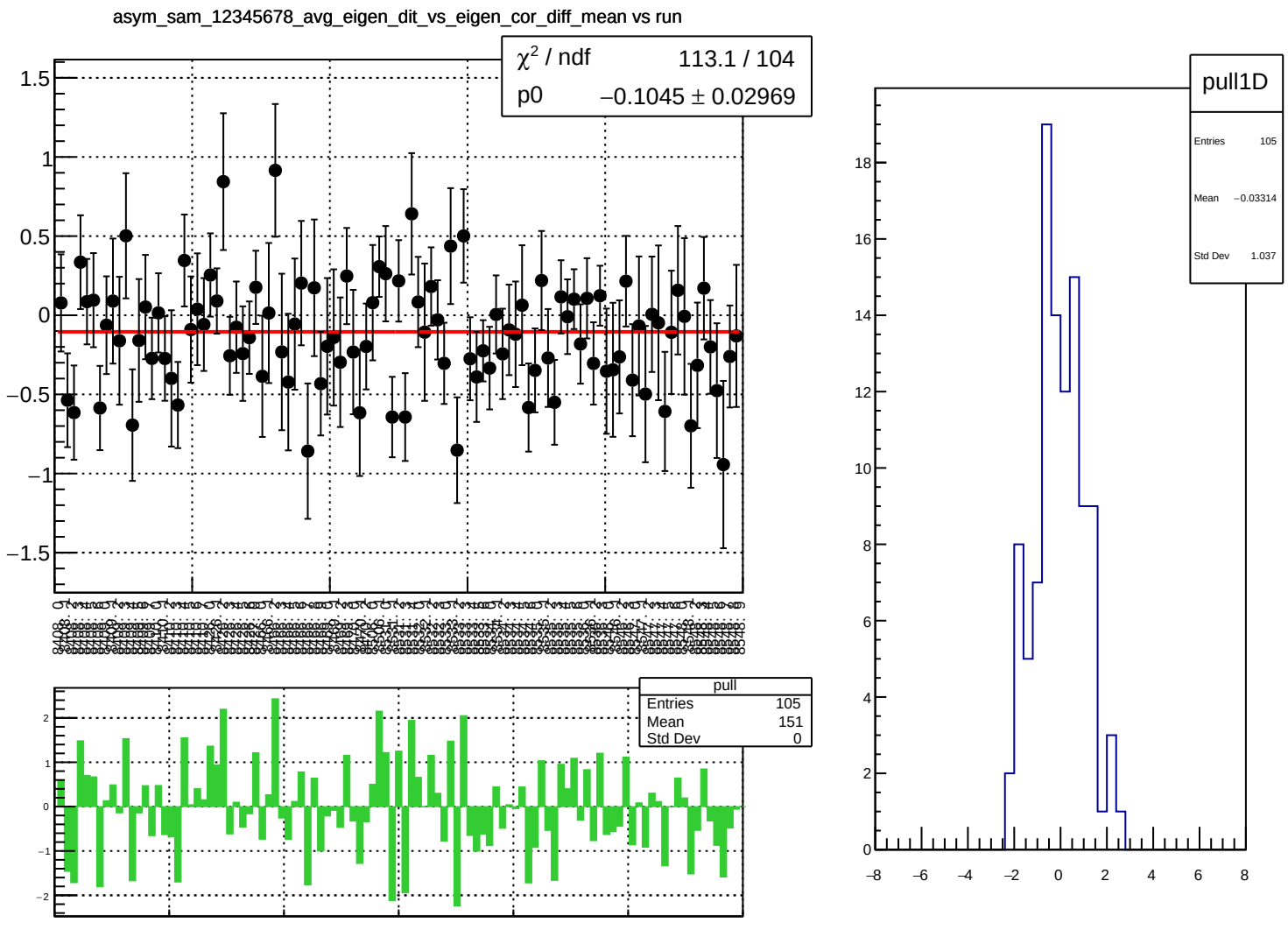

asym_sam_12345678_avg_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.157e+04 / 104
p0 29.35 ± 0.02099
50
45
40
35
30
25
20

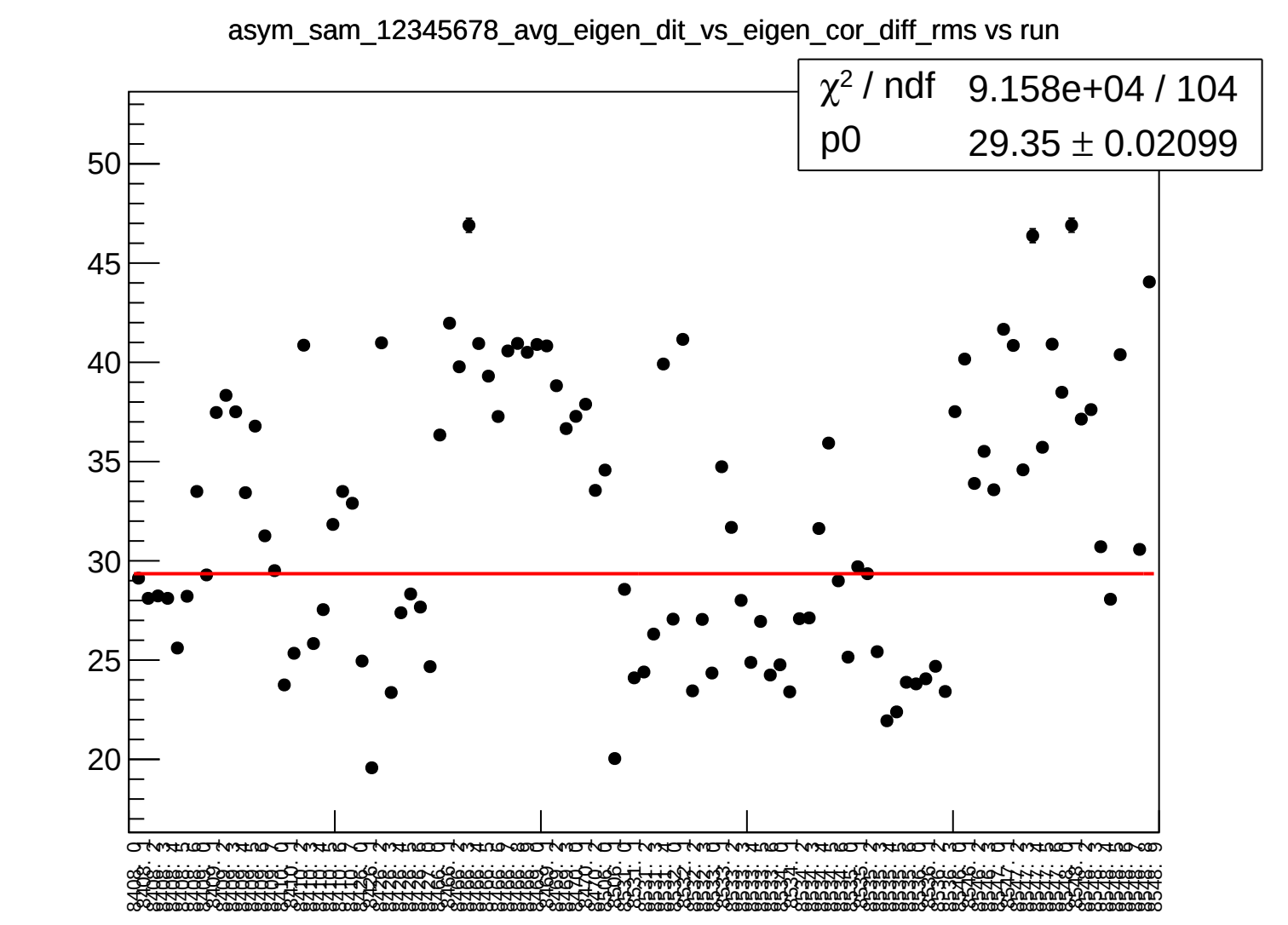

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_mean vs run
×10⁻³
χ² / ndf 107.8 / 104
p0 7.008e−06 ± 1.675e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
−0.06
−0.08
−0.1
pull
Entries 105
Mean −103.6
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.0026
Std Dev 1.013
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

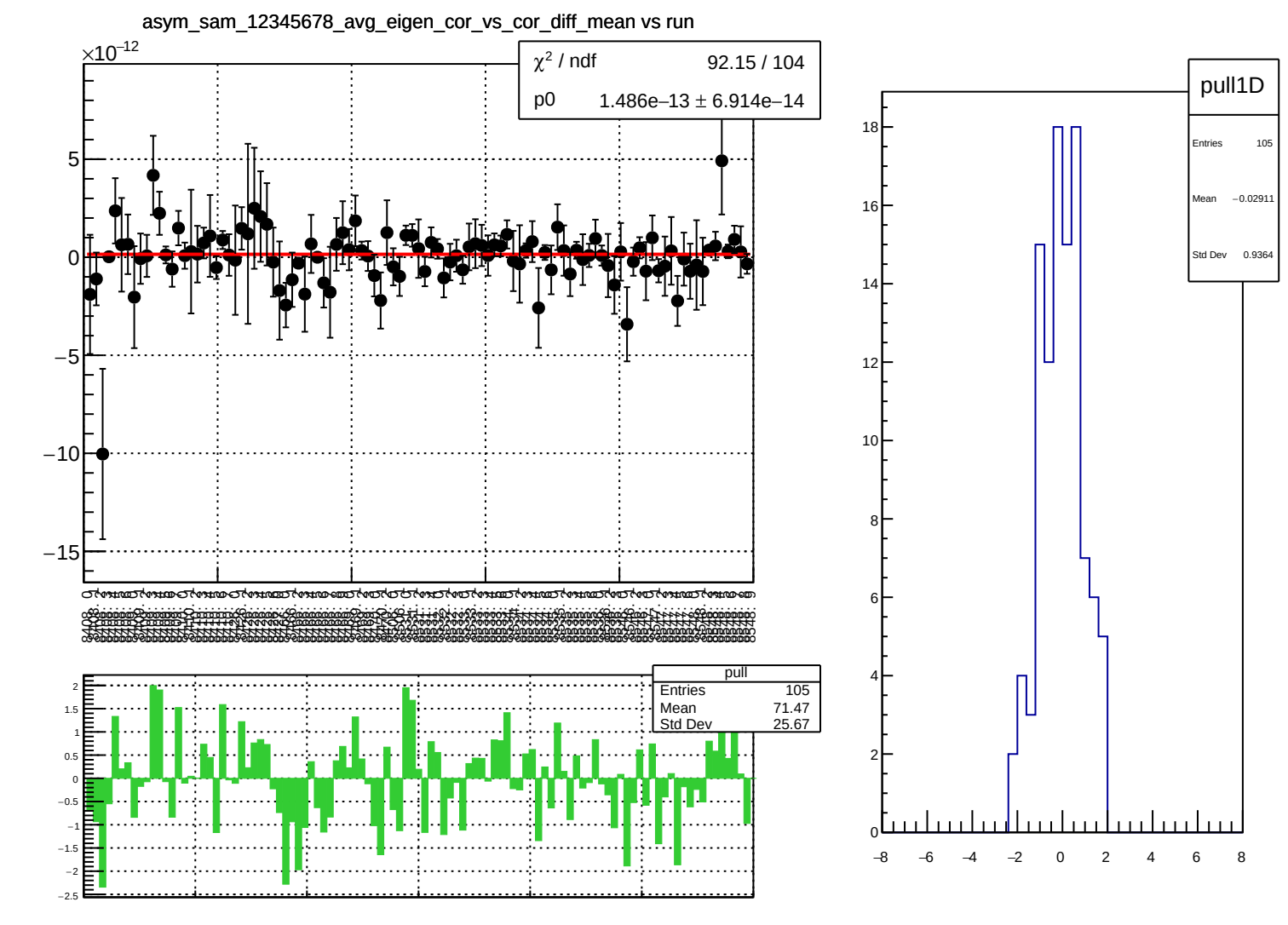

asym_sam_12345678_avg_eigen_dit_vs_dit_diff_rms vs run
χ² / ndf 2.126e+05 / 104
p0 0.001604 ± 1.185e−06
0.0035
0.003
0.0025
0.002
0.0015
0.001

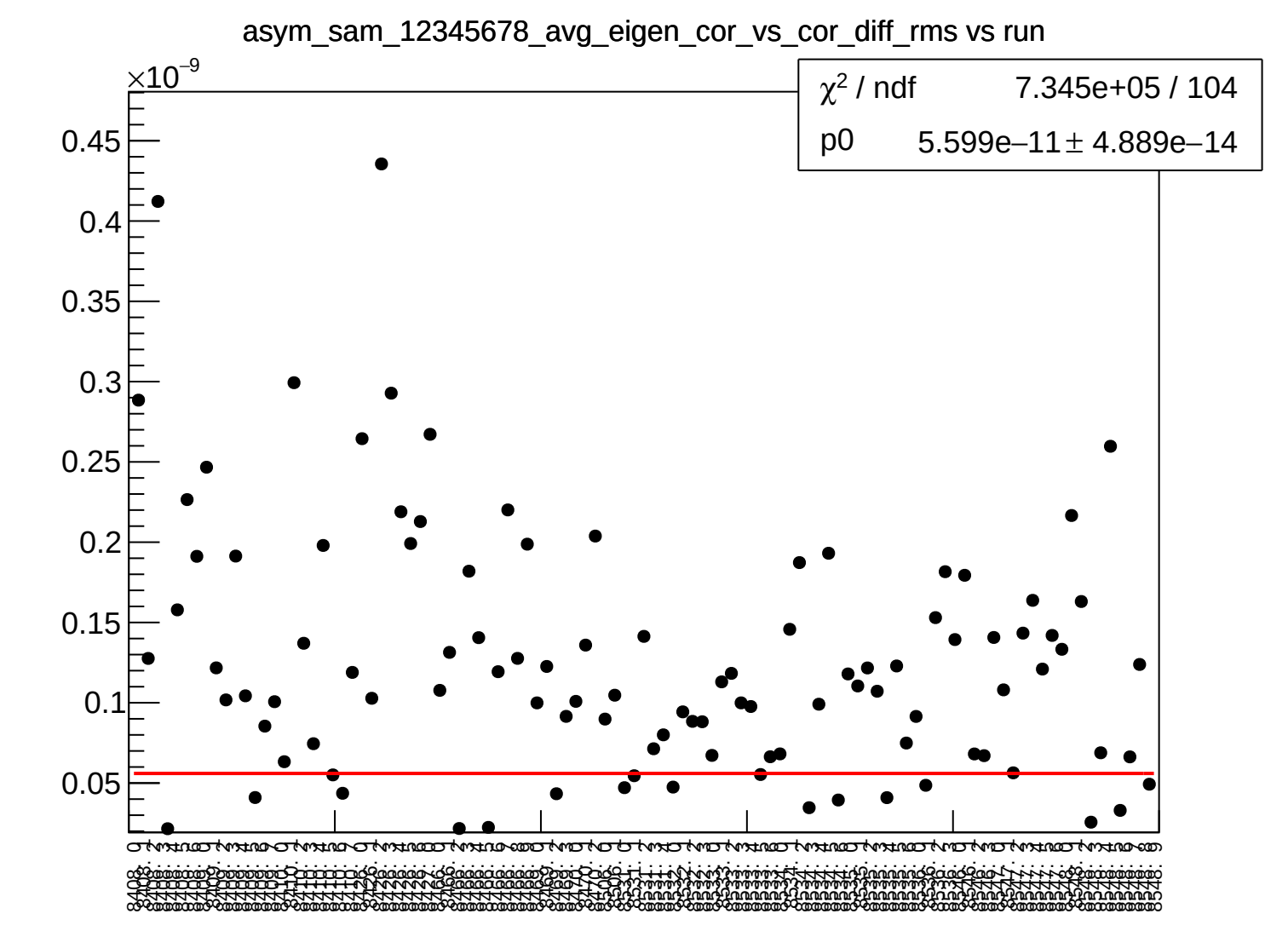

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_mean vs run
χ² / ndf 113.1 / 104
p0 −0.1045 ± 0.02969
pull
Entries 105
Mean 151
Std Dev 0
pull1D
Entries 105
Mean −0.03314
Std Dev 1.037

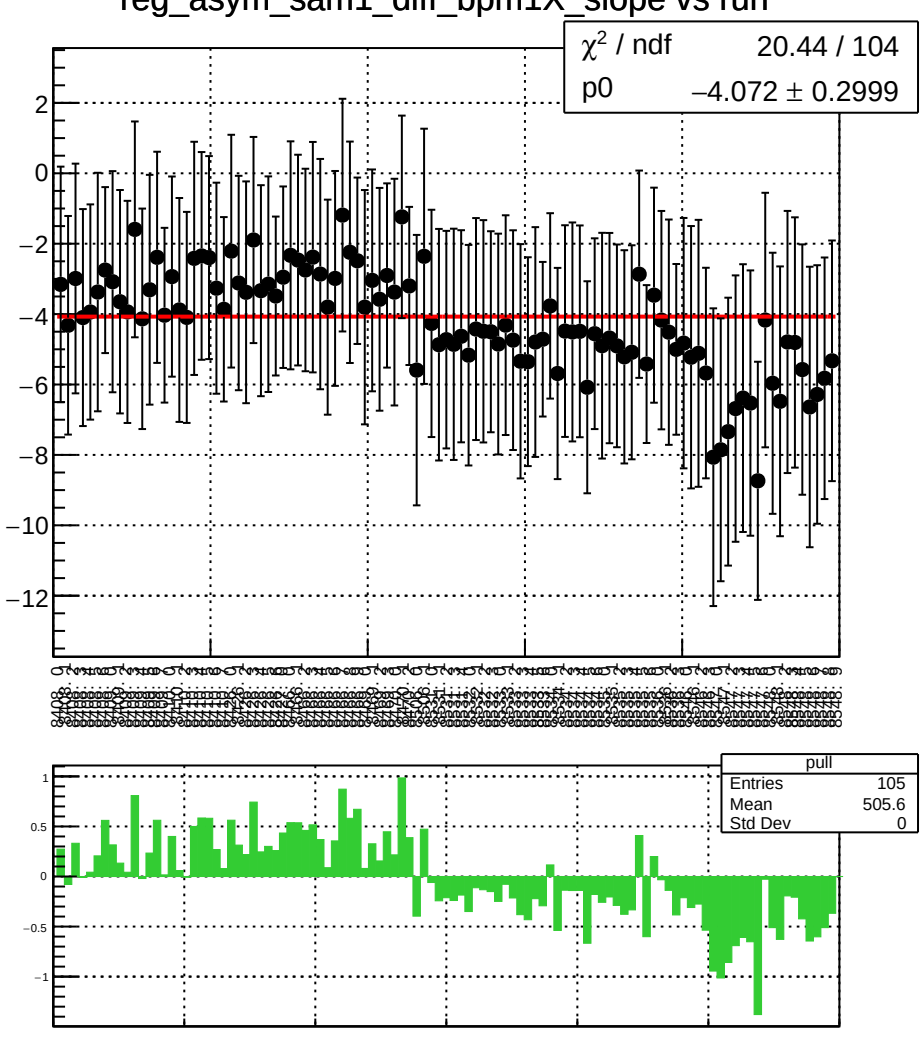

asym_sam_12345678_avg_eigen_dit_vs_cor_diff_rms vs run
χ² / ndf 9.158e+04 / 104
p0 29.35 ± 0.02099
50
45
40
35
30
25
20

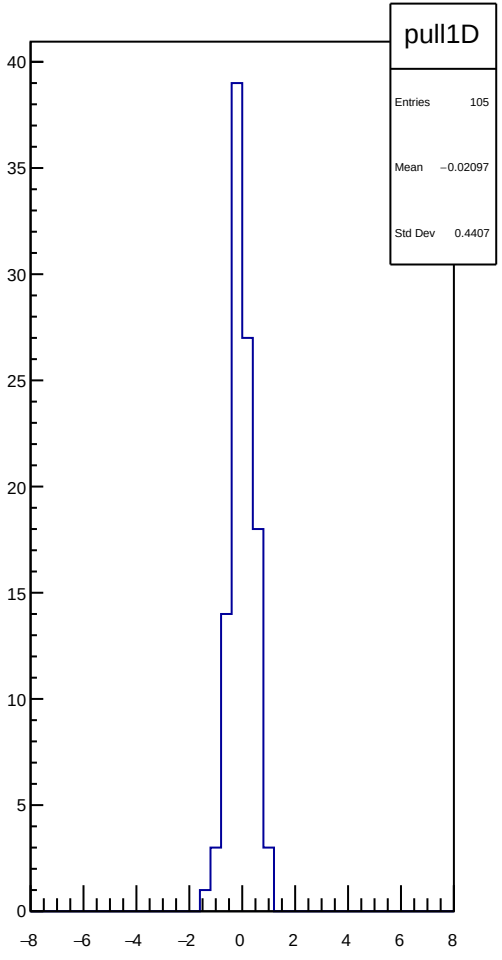

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_mean vs run
χ² / ndf 113.1 / 104
p0 −0.1045 ± 0.02969
pull
Entries 105
Mean 151
Std Dev 0
pull1D
Entries 105
Mean −0.03314
Std Dev 1.037

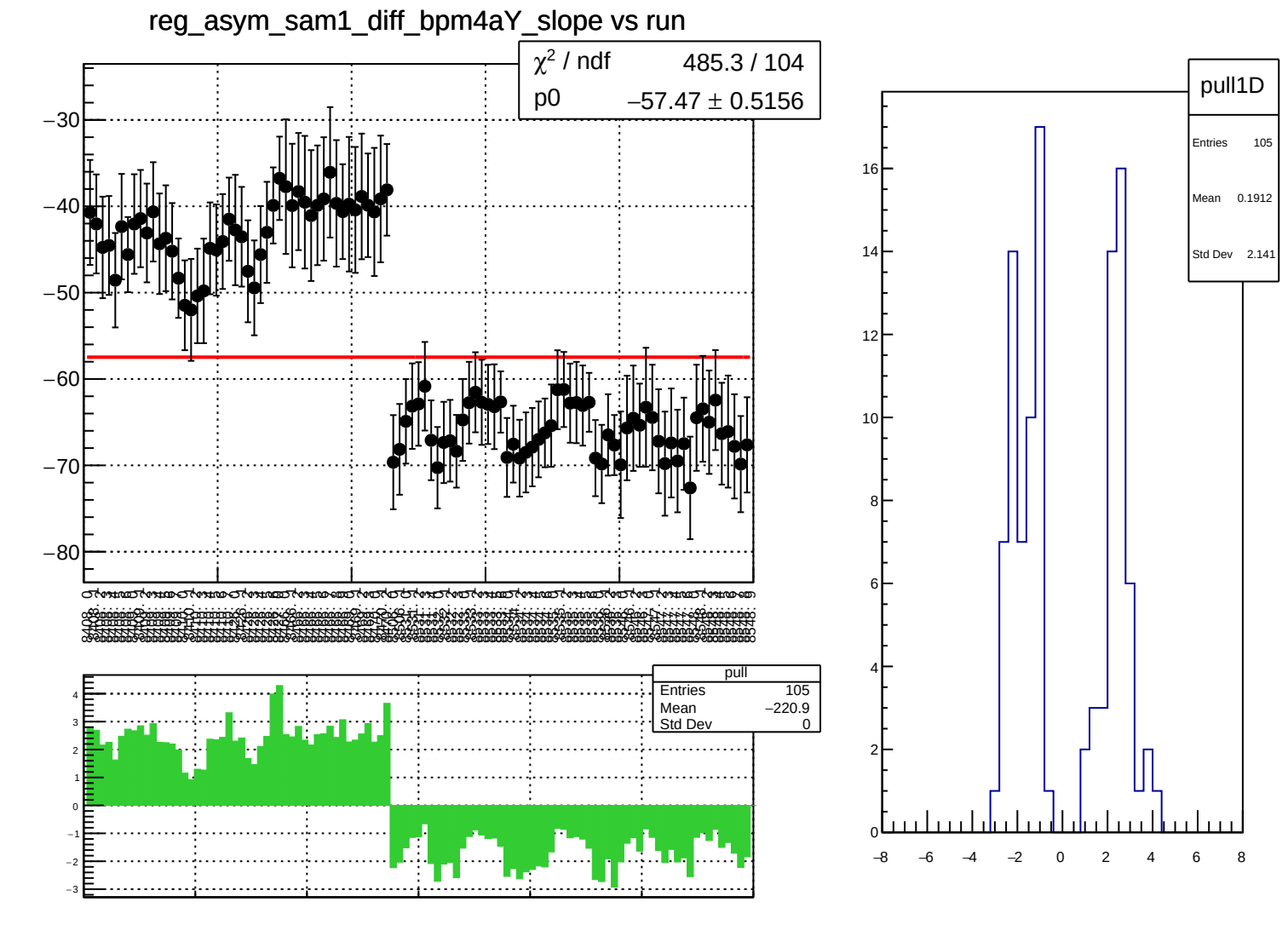

asym_sam_12345678_avg_eigen_dit_vs_eigen_cor_diff_rms vs run
χ² / ndf 9.158e+04 / 104
p0 29.35 ± 0.02099
50
45
40
35
30
25
20

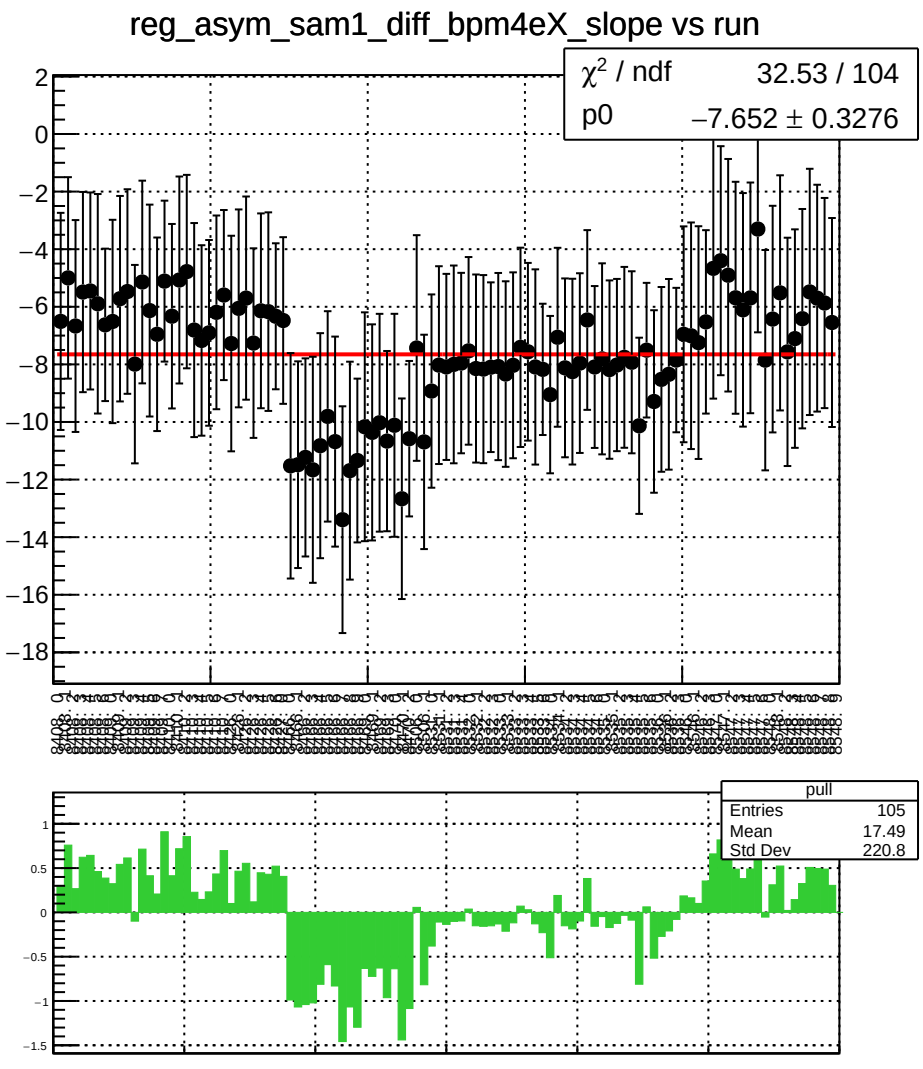

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_mean vs run
×10⁻¹²
χ² / ndf 92.15 / 104
p0 1.486e−13 ± 6.914e−14
pull
Entries 105
Mean 71.47
Std Dev 25.67
pull1D
Entries 105
Mean −0.02911
Std Dev 0.9364

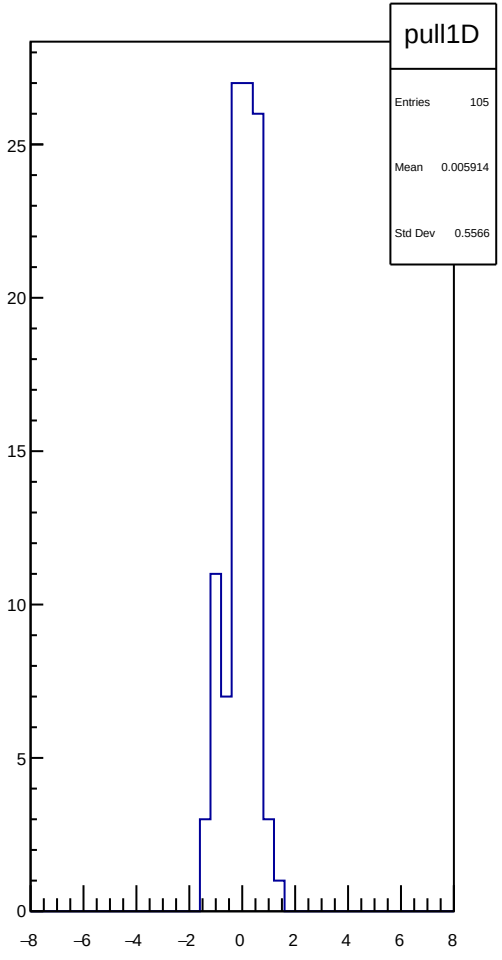

asym_sam_12345678_avg_eigen_cor_vs_cor_diff_rms vs run
×10⁻⁹
χ² / ndf 7.345e+05 / 104
p0 5.599e−11 ± 4.889e−14
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

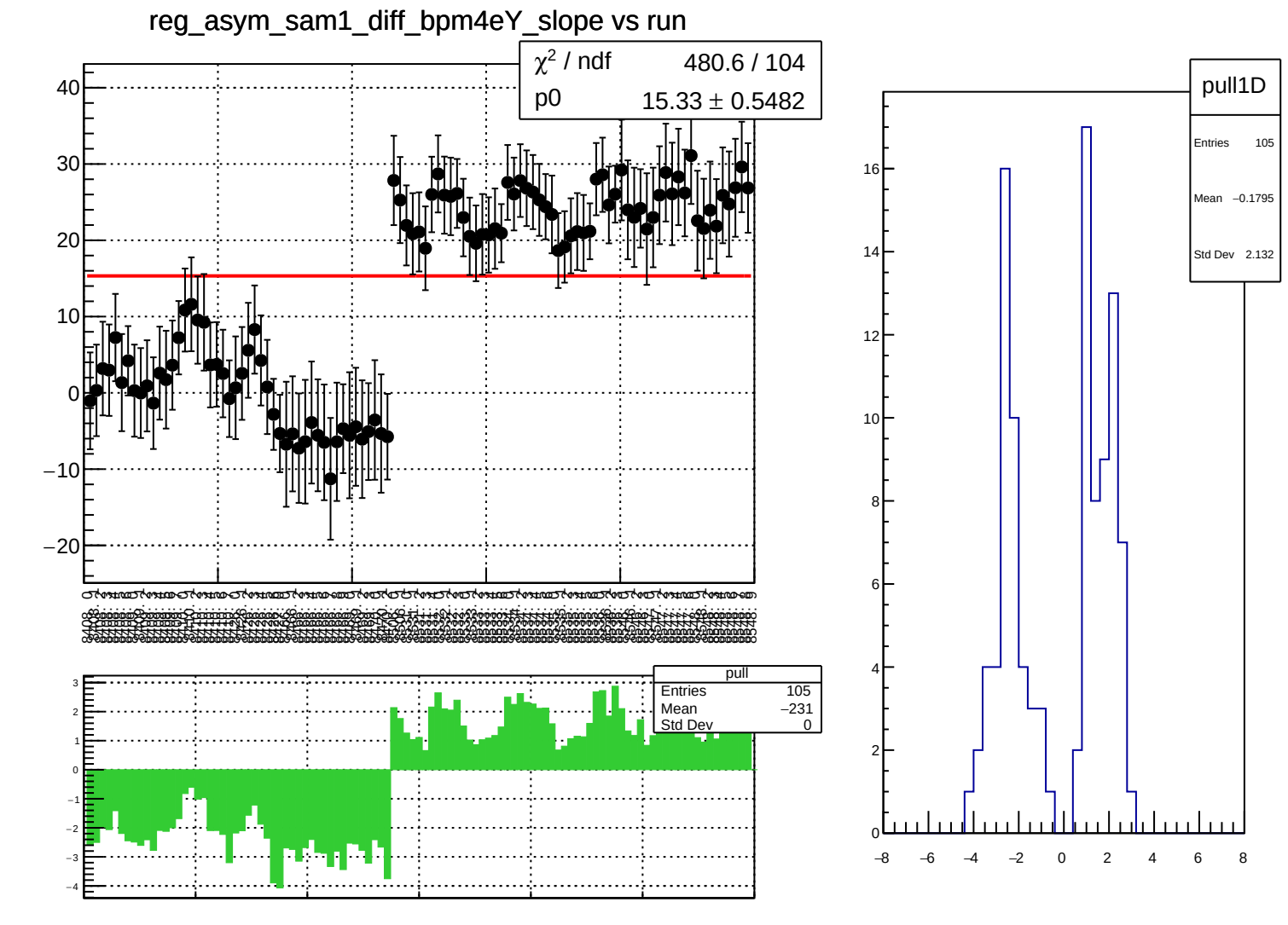

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 20.44 / 104
p0 −4.072 ± 0.2999
pull
Entries 105
Mean 505.6
Std Dev 0

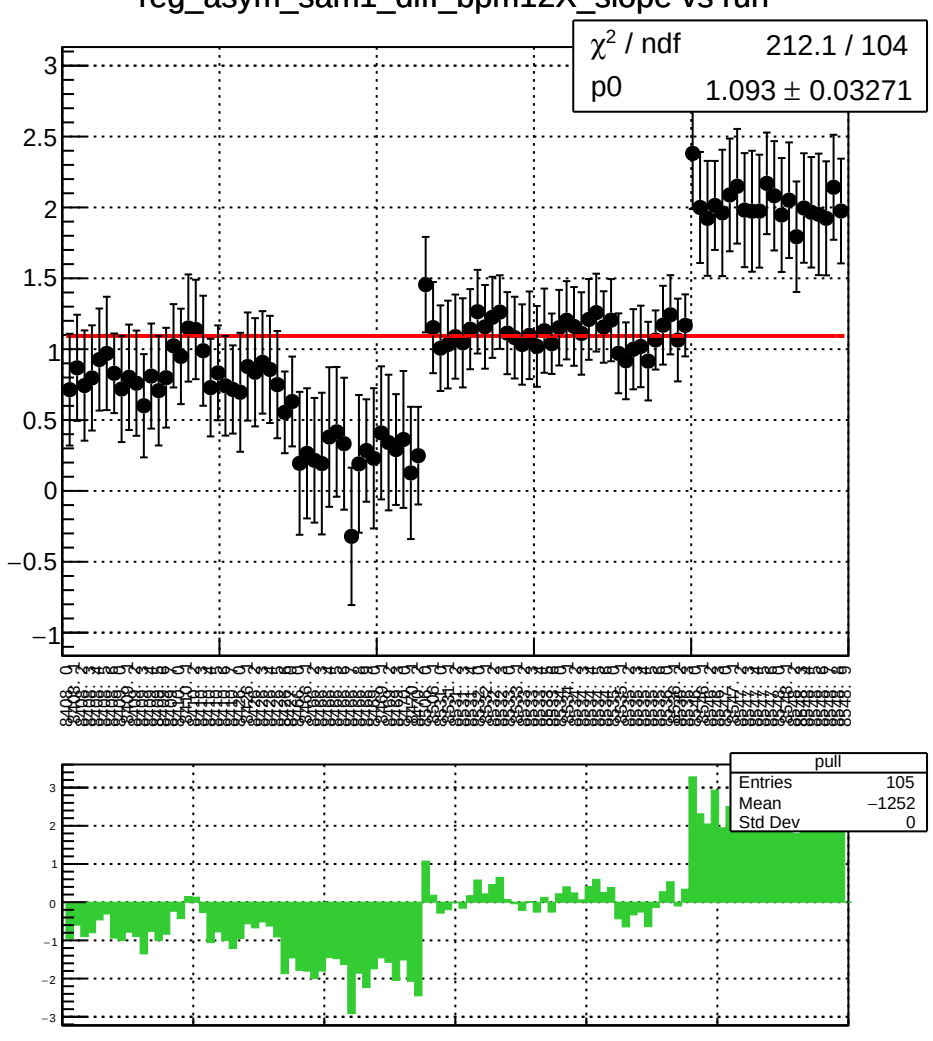

pull1D
Entries 105
Mean −0.02097
Std Dev 0.4407

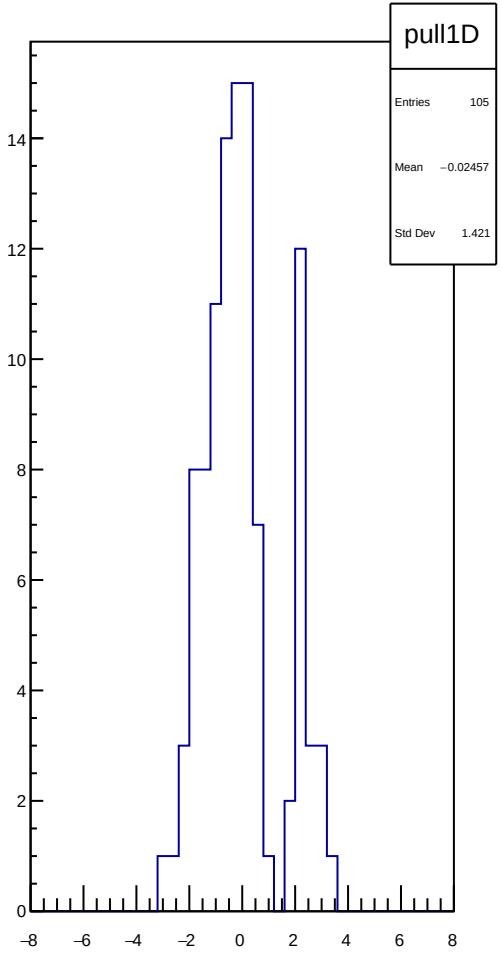

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 485.3 / 104
p0 −57.47 ± 0.5156
−30
−40
−50
−60
−70
−80
pull
Entries 105
Mean −220.9
Std Dev 0
4
3
2
1
0
−1
−2
−3
pull1D
Entries 105
Mean 0.1912
Std Dev 2.141
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

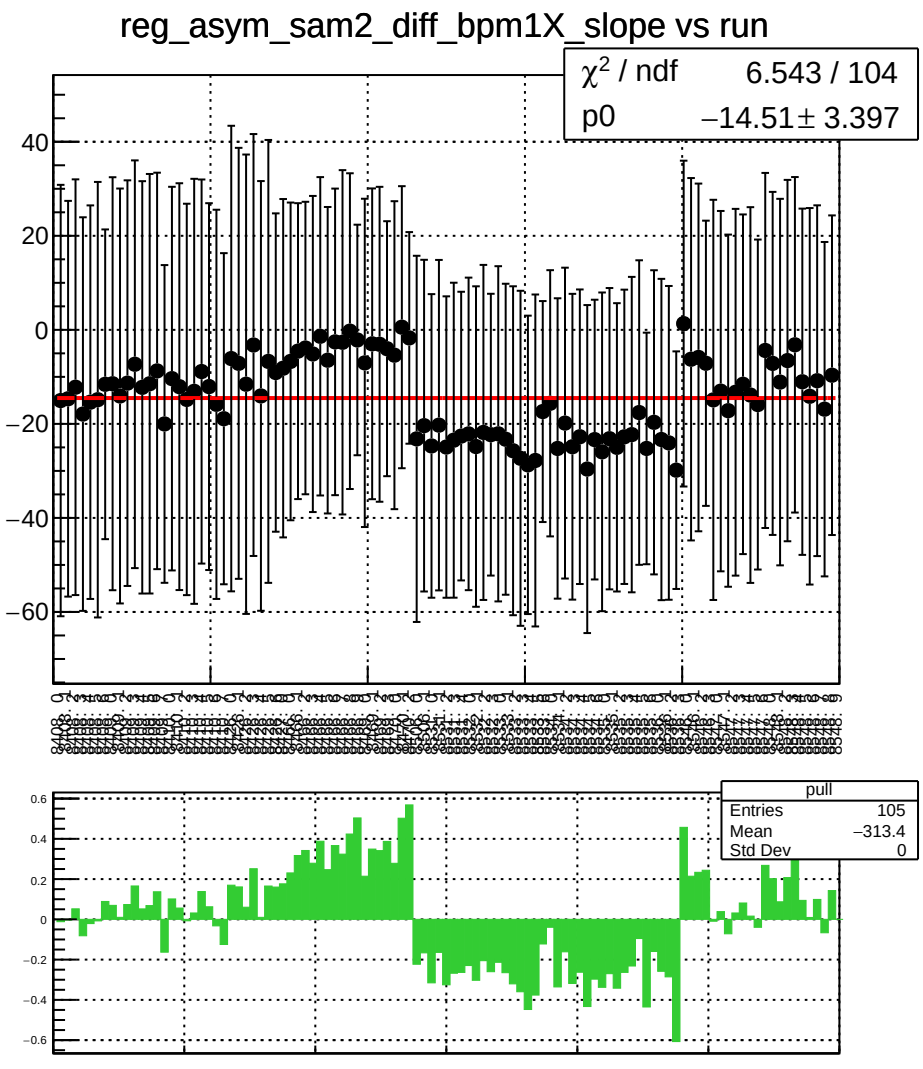

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 32.53 / 104
p0 −7.652 ± 0.3276
pull
Entries 105
Mean 17.49
Std Dev 220.8

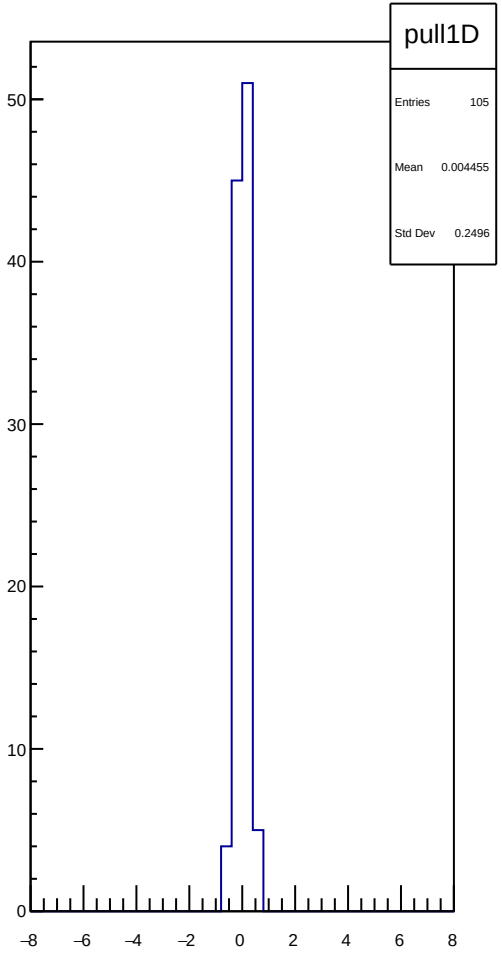

pull1D
Entries 105
Mean 0.005914
Std Dev 0.5566

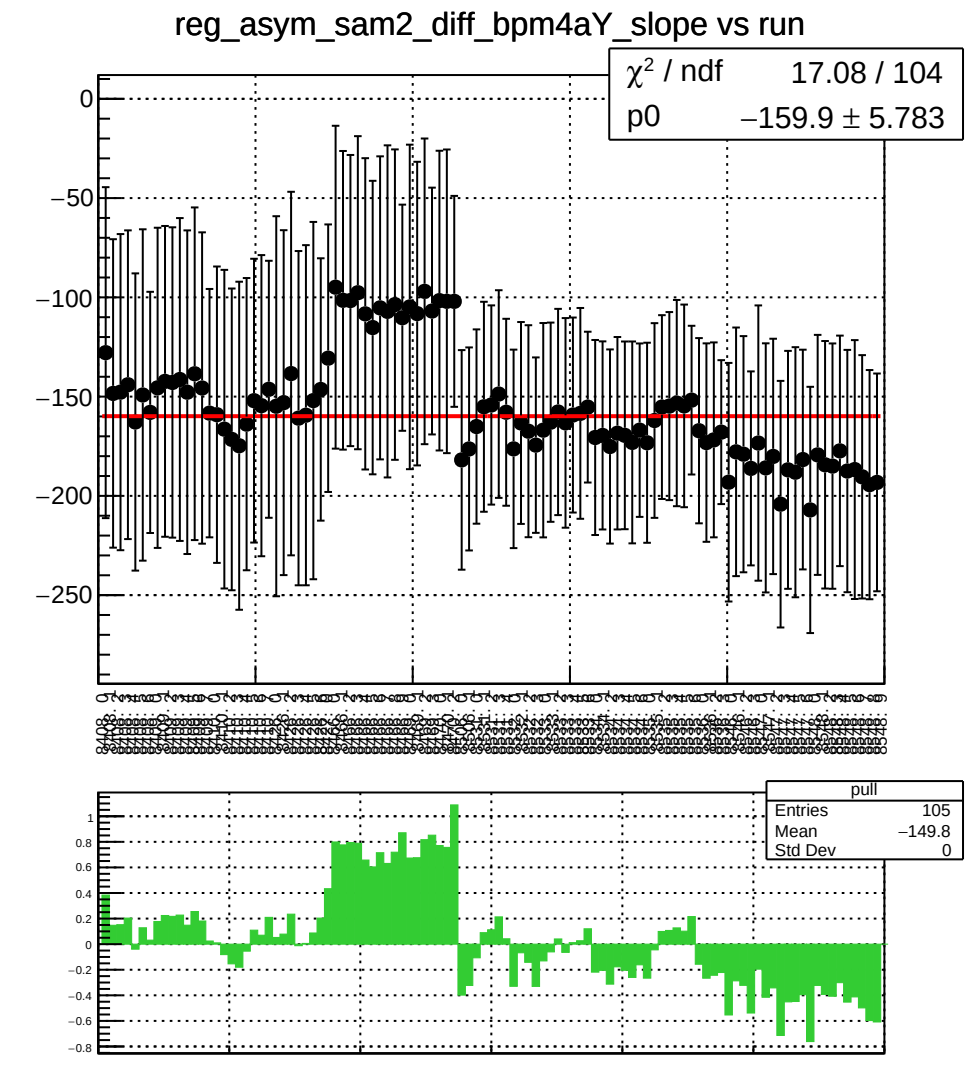

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 480.6 / 104
p0 15.33 ± 0.5482
pull
Entries 105
Mean −231
Std Dev 0
pull1D
Entries 105
Mean −0.1795
Std Dev 2.132

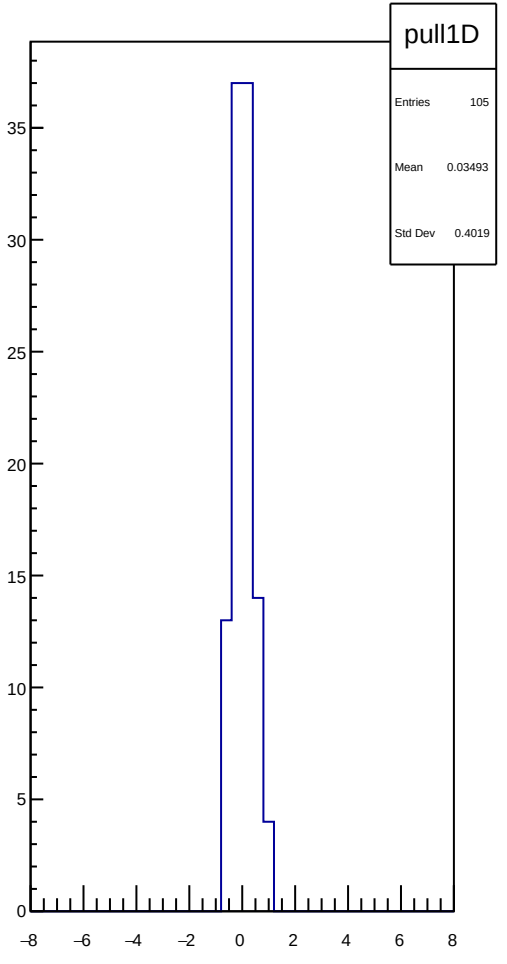

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 212.1 / 104
p0 1.093 ± 0.03271
pull
Entries 105
Mean −1252
Std Dev 0

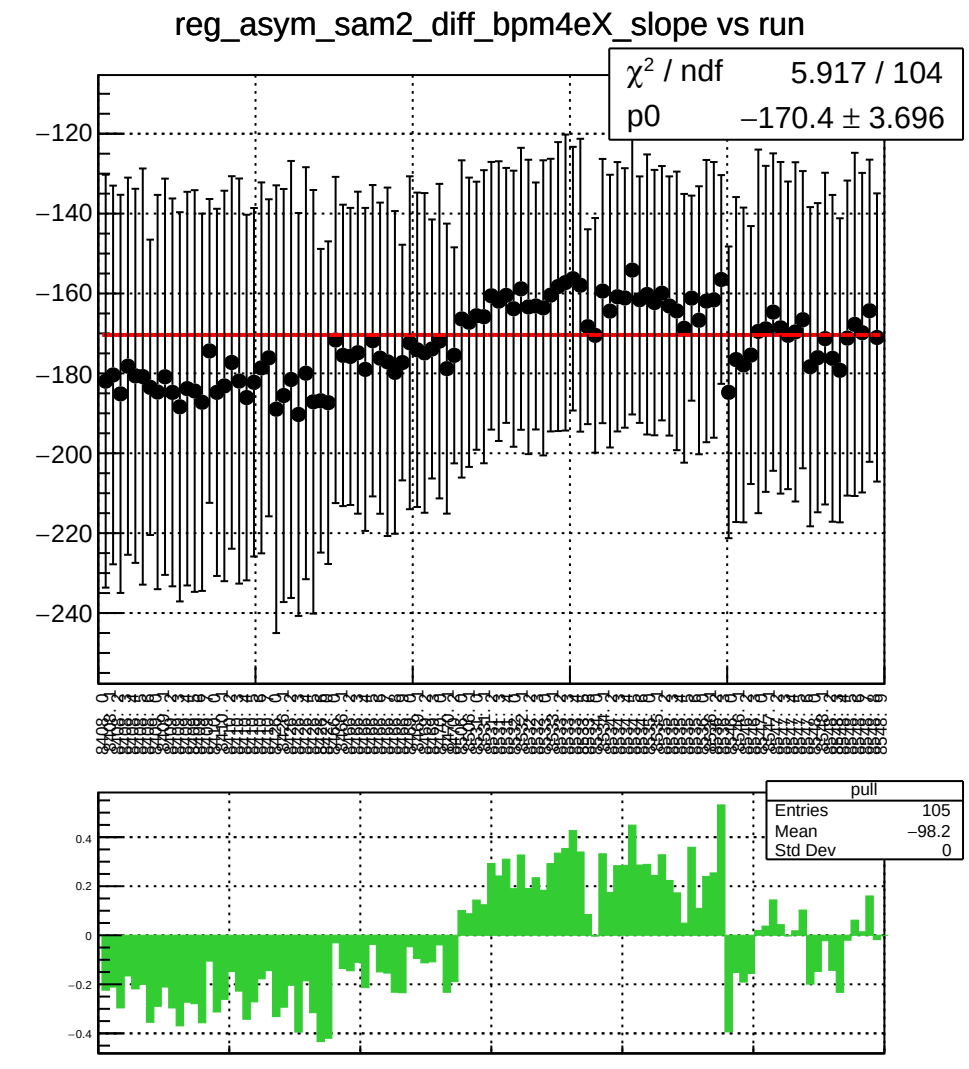

pull1D
Entries 105
Mean −0.02457
Std Dev 1.421

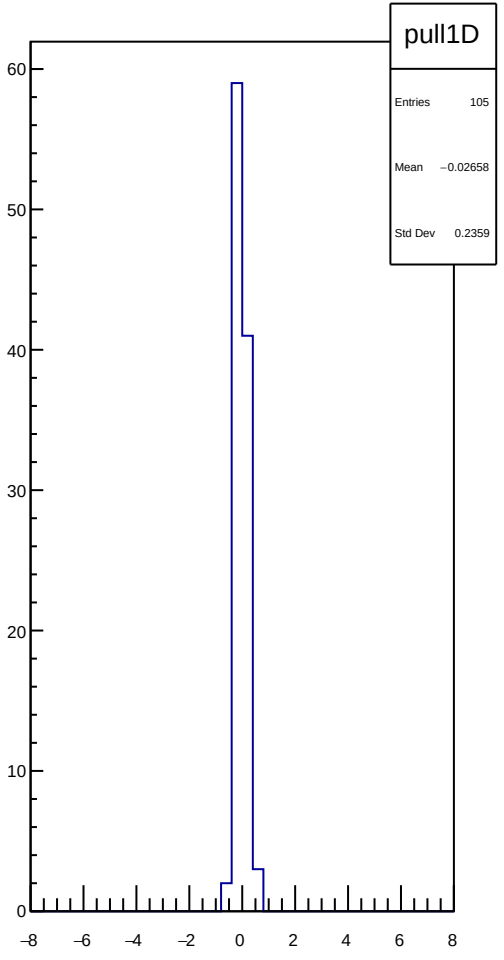

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 6.543 / 104
p0 −14.51 ± 3.397
40
20
0
−20
−40
−60
pull
Entries 105
Mean −313.4
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

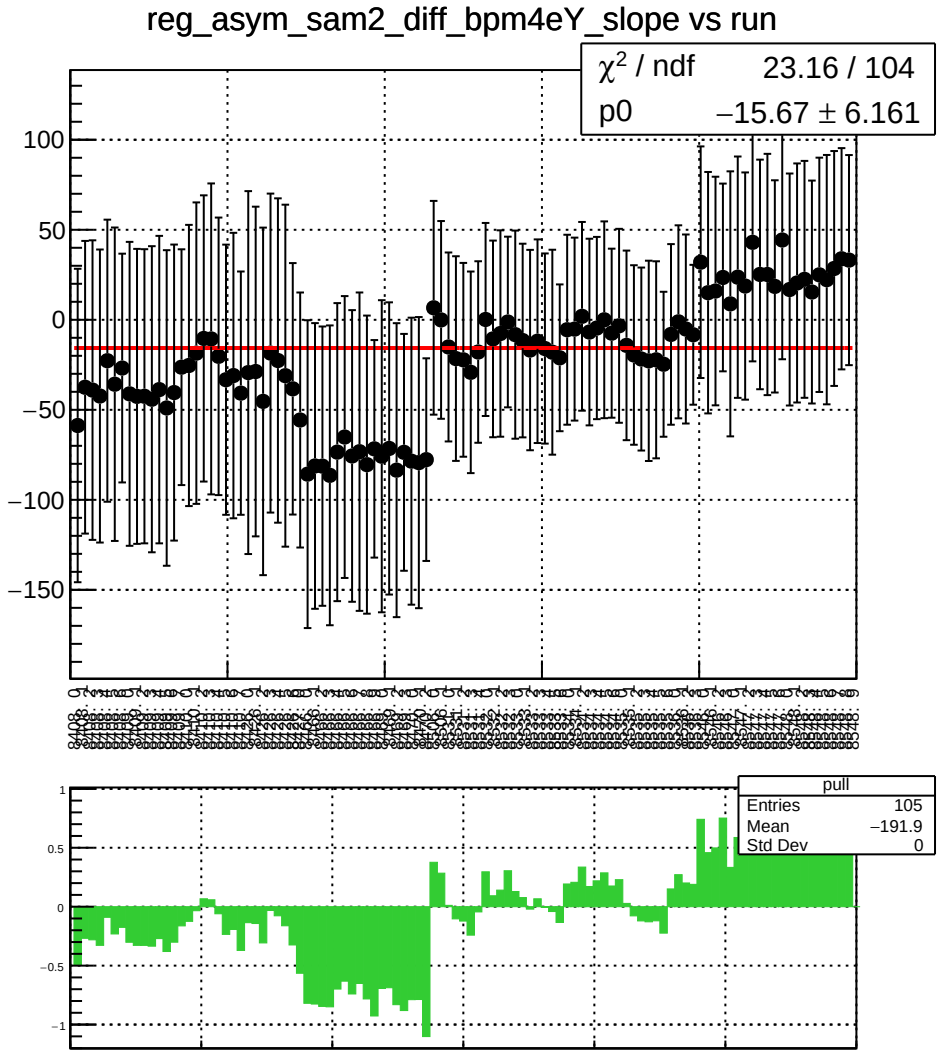

pull1D
Entries 105
Mean 0.004455
Std Dev 0.2496
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

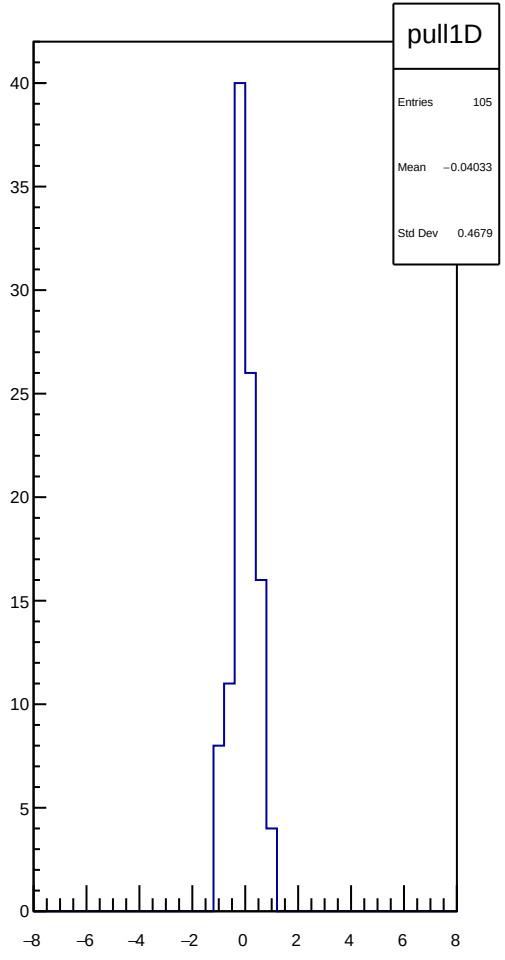

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 17.08 / 104
p0 −159.9 ± 5.783
0
−50
−100
−150
−200
−250
pull
Entries 105
Mean −149.8
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

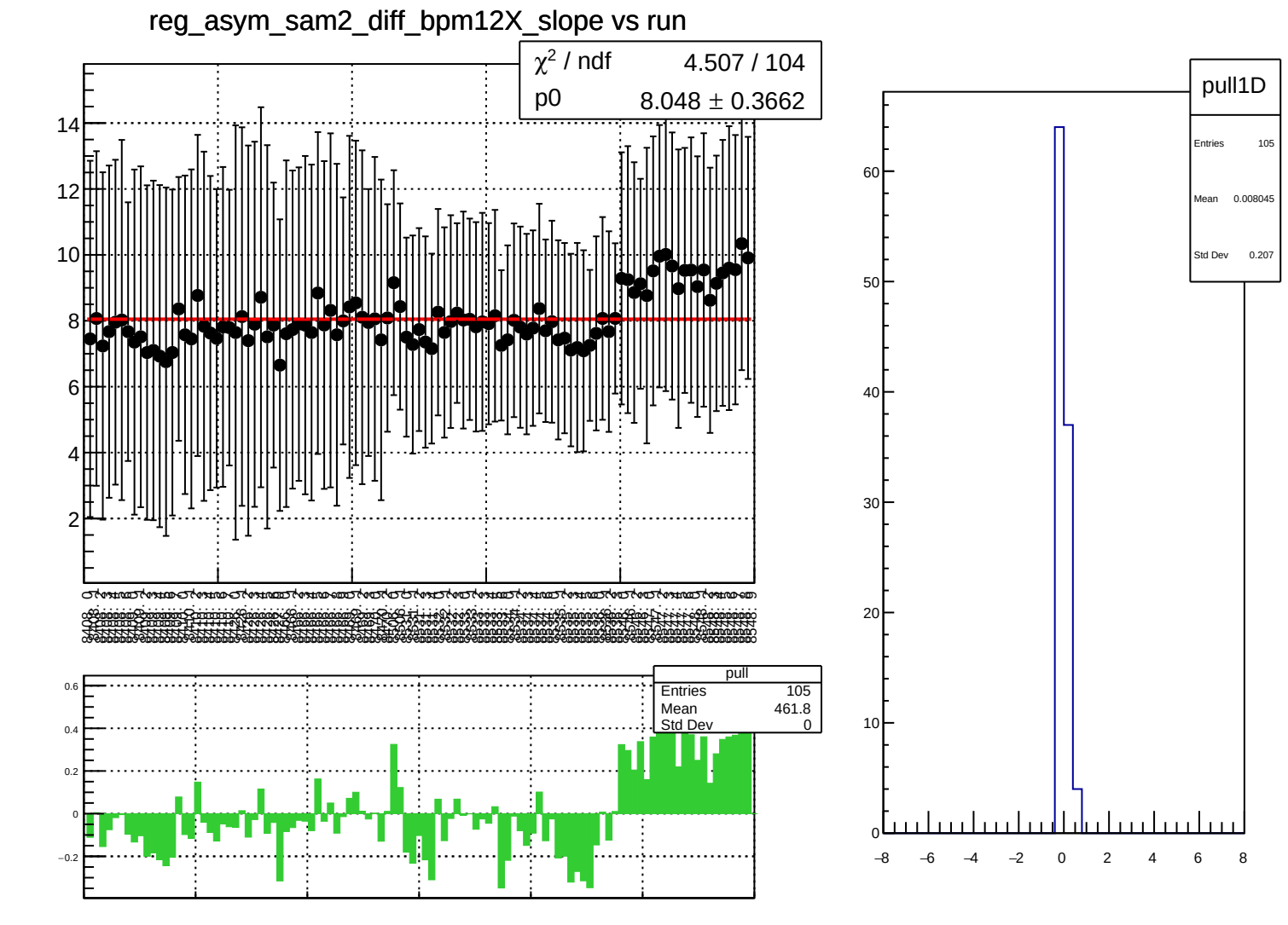

pull1D
Entries 105
Mean 0.03493
Std Dev 0.4019
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

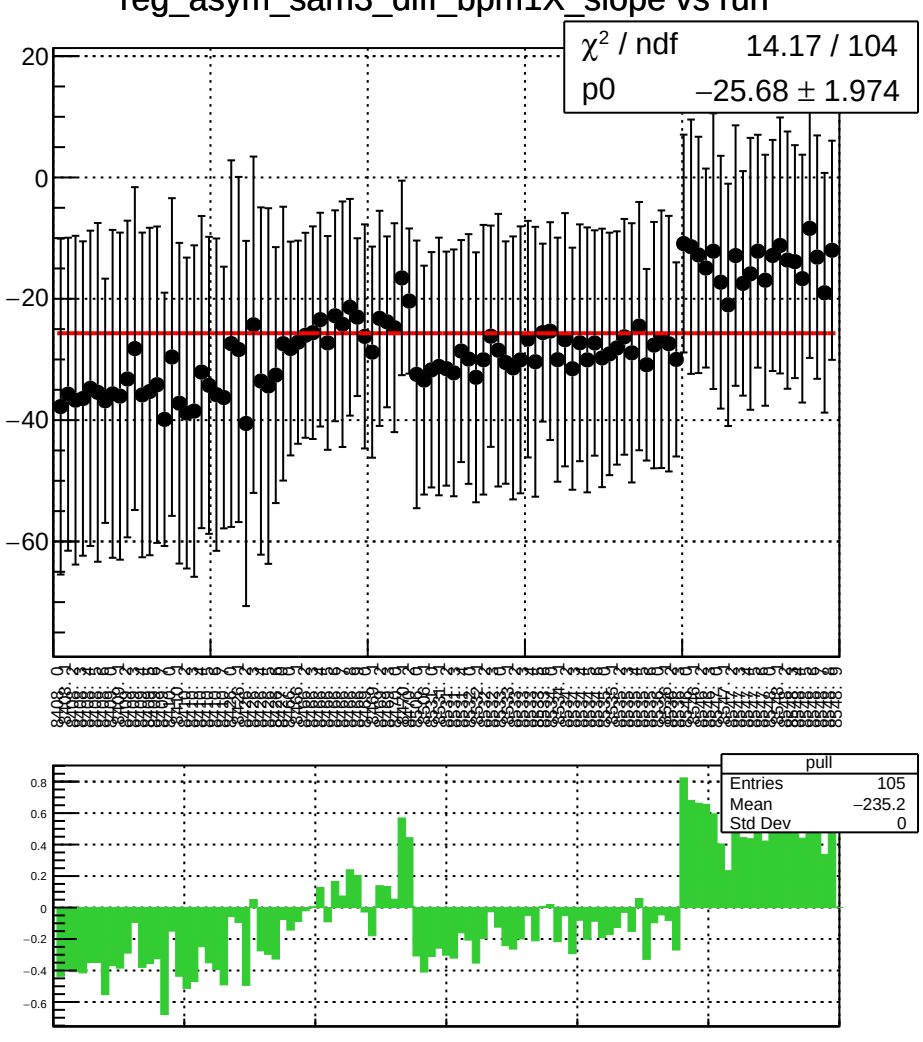

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 5.917 / 104
p0 −170.4 ± 3.696
−120
−140
−160
−180
−200
−220
−240
pull
Entries 105
Mean −98.2
Std Dev 0
0.4
0.2
0
−0.2
−0.4

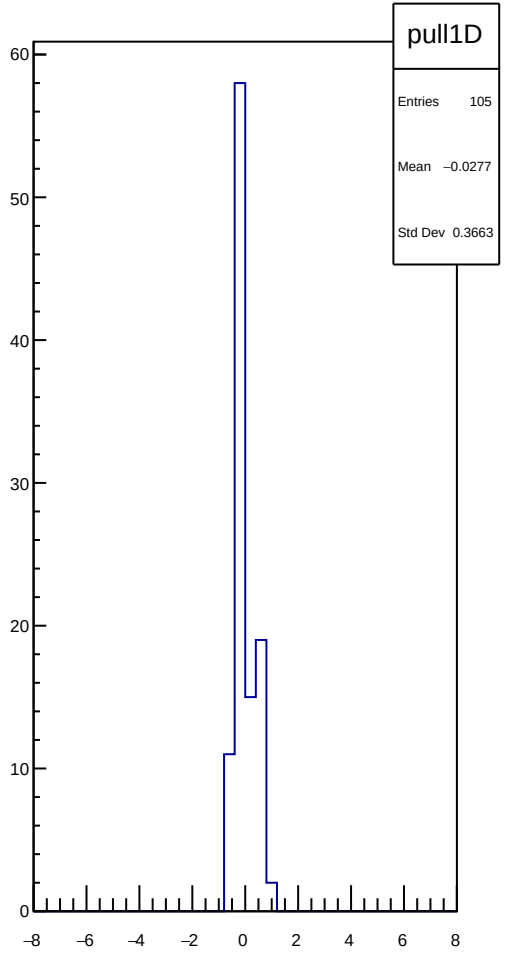

pull1D
Entries 105
Mean −0.02658
Std Dev 0.2359
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

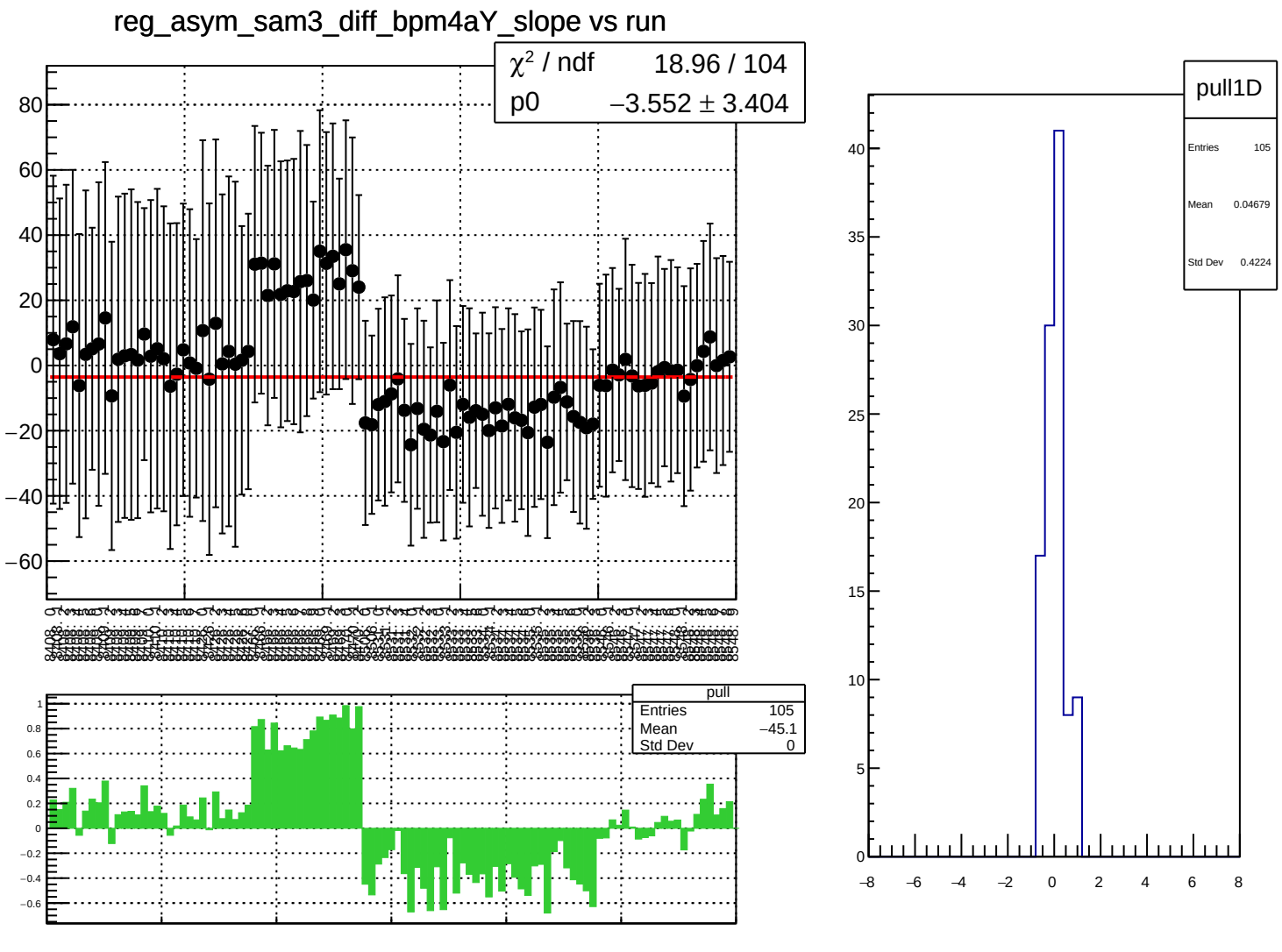

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 23.16 / 104
p0 −15.67 ± 6.161
100
50
0
−50
−100
−150
pull
Entries 105
Mean −191.9
Std Dev 0
1
0.5
0
−0.5
−1

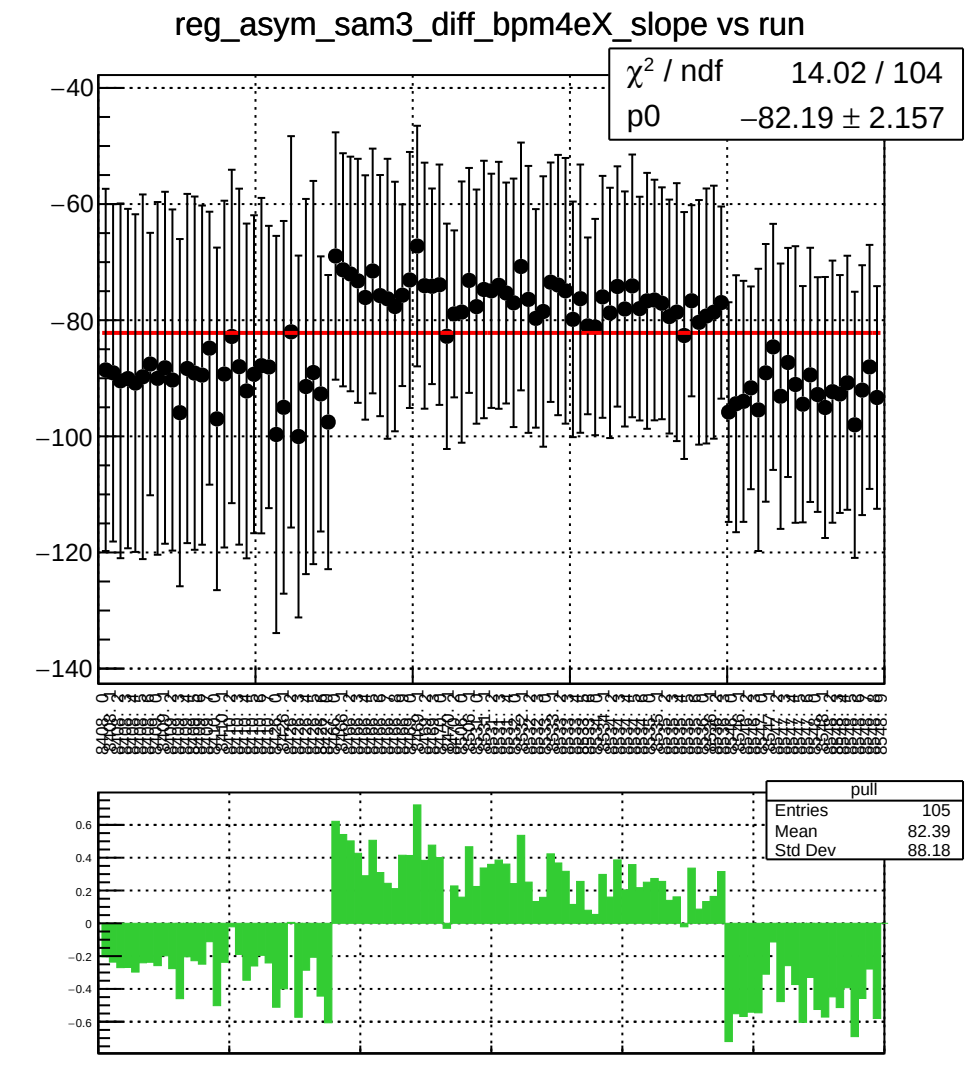

pull1D
Entries 105
Mean −0.04033
Std Dev 0.4679
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

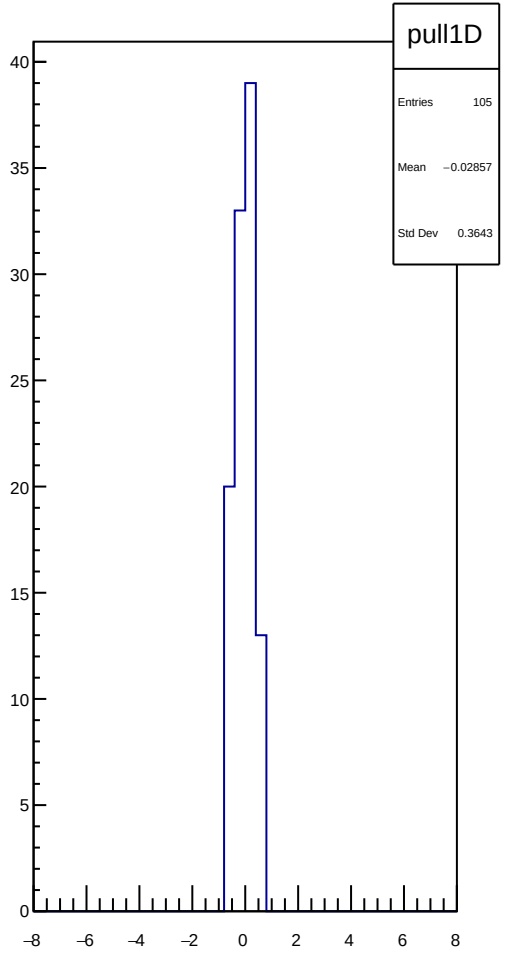

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 4.507 / 104
p0 8.048 ± 0.3662
pull
Entries 105
Mean 461.8
Std Dev 0
pull1D
Entries 105
Mean 0.008045
Std Dev 0.207

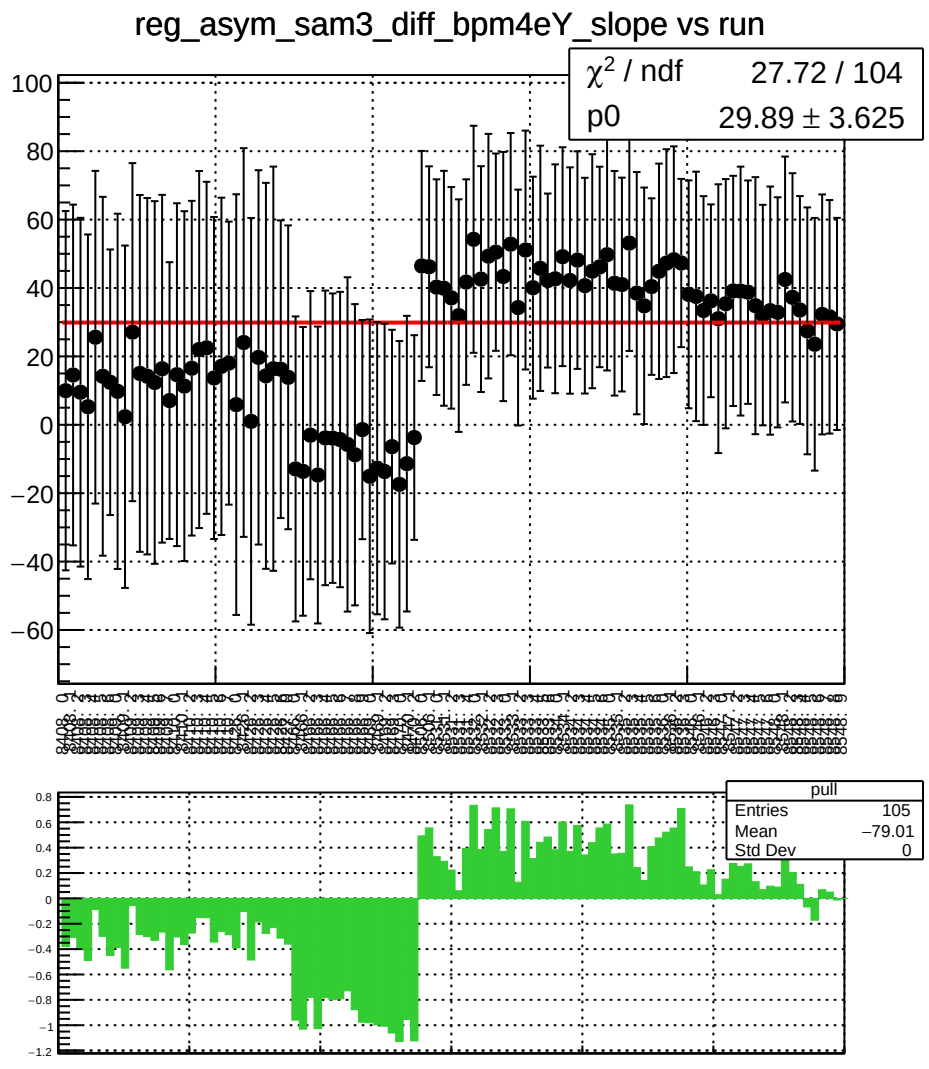

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 14.17 / 104
p0 −25.68 ± 1.974
20
0
−20
−40
−60
pull
Entries 105
Mean −235.2
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

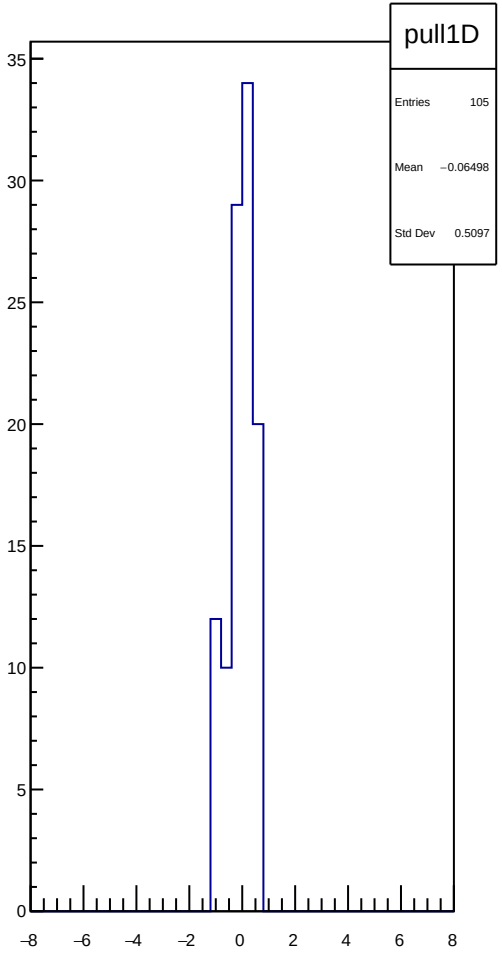

pull1D
Entries 105
Mean −0.0277
Std Dev 0.3663
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

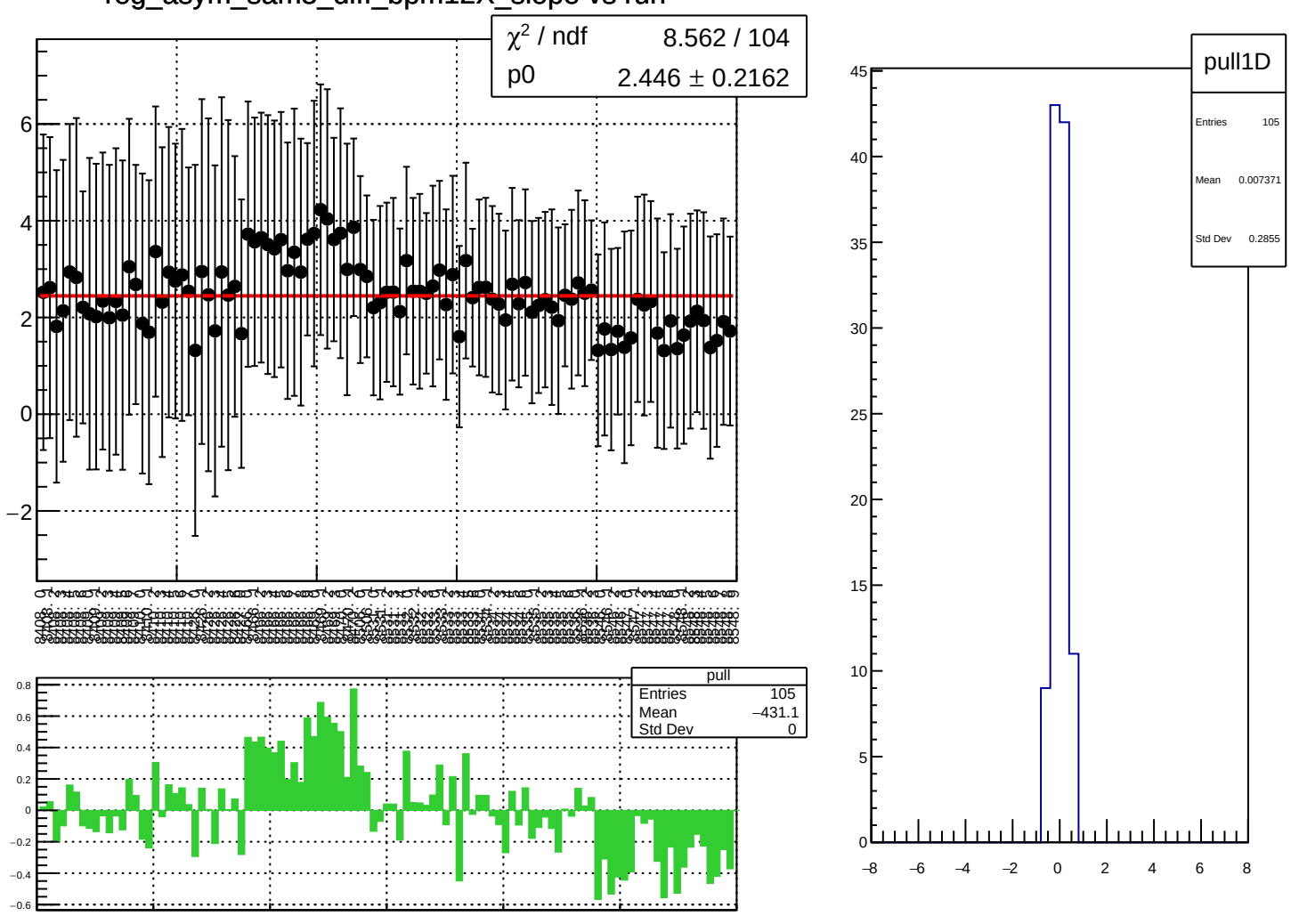

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 18.96 / 104
p0 −3.552 ± 3.404
pull
Entries 105
Mean −45.1
Std Dev 0
pull1D
Entries 105
Mean 0.04679
Std Dev 0.4224

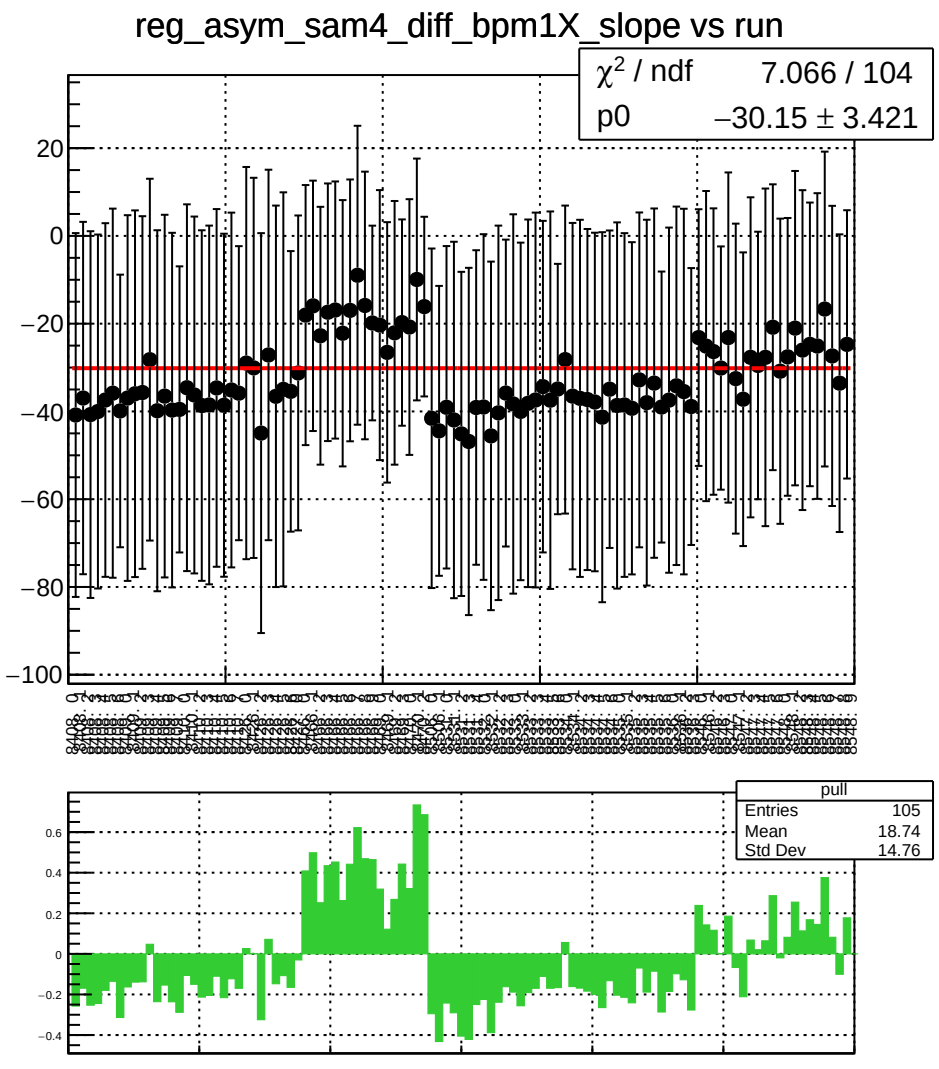

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 14.02 / 104
p0 −82.19 ± 2.157
−40
−60
−80
−100
−120
−140
pull
Entries 105
Mean 82.39
Std Dev 88.18
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

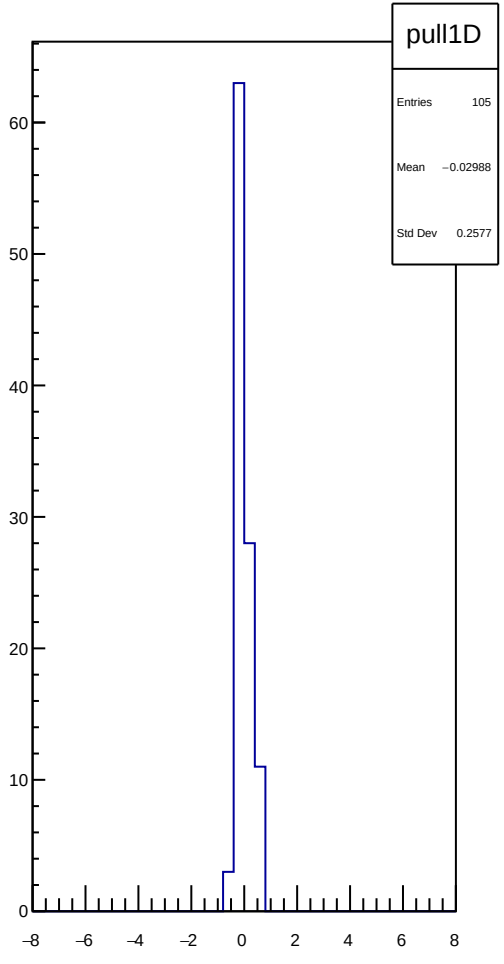

pull1D
Entries 105
Mean −0.02857
Std Dev 0.3643
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

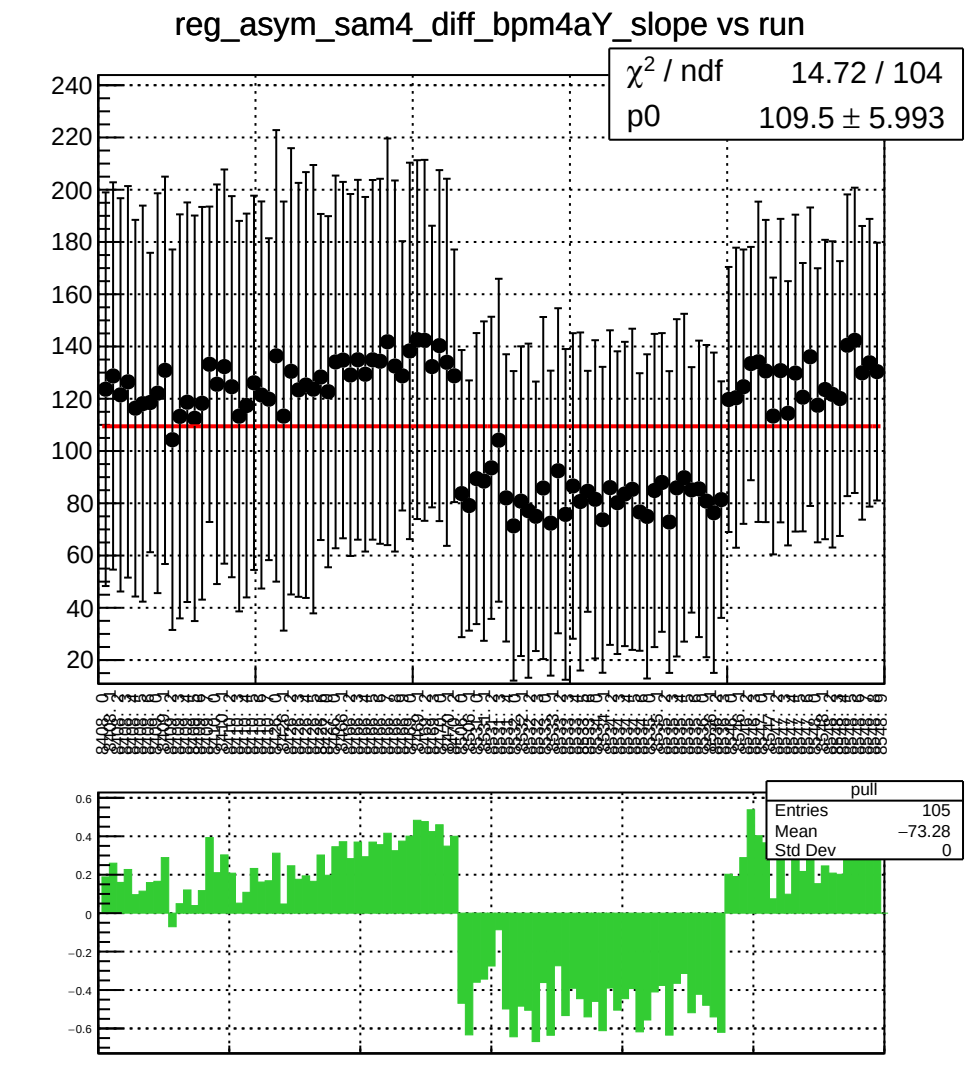

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 27.72 / 104
p0 29.89 ± 3.625
pull
Entries 105
Mean −79.01
Std Dev 0

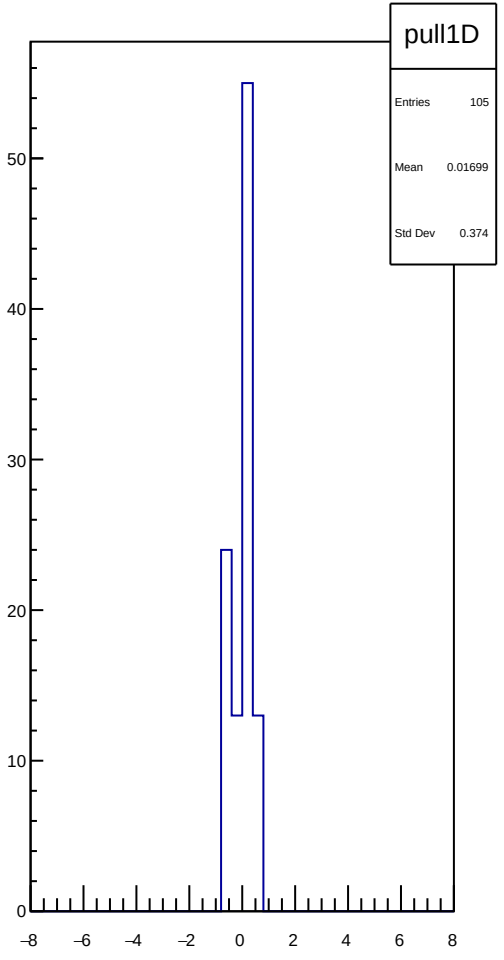

pull1D
Entries 105
Mean −0.06498
Std Dev 0.5097

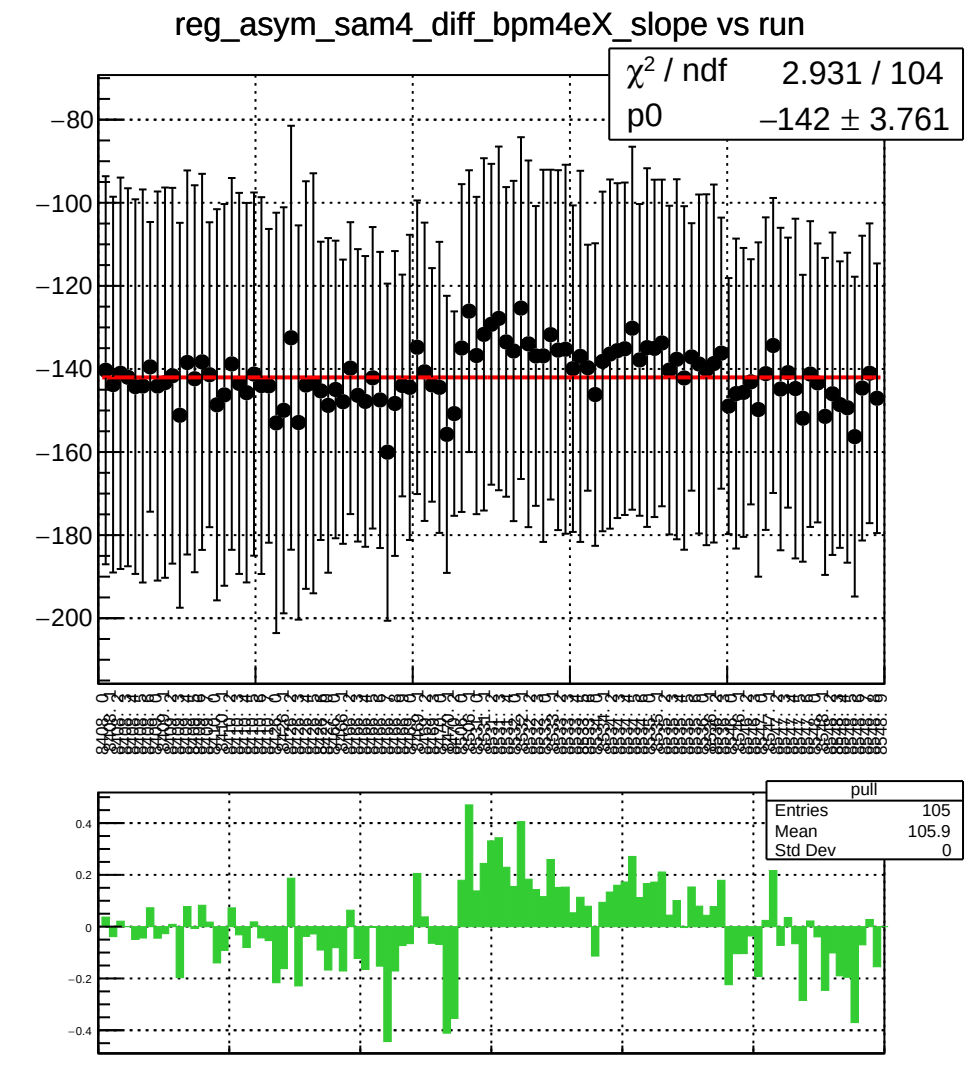

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 8.562 / 104
p0 2.446 ± 0.2162
pull
Entries 105
Mean −431.1
Std Dev 0
pull1D
Entries 105
Mean 0.007371
Std Dev 0.2855

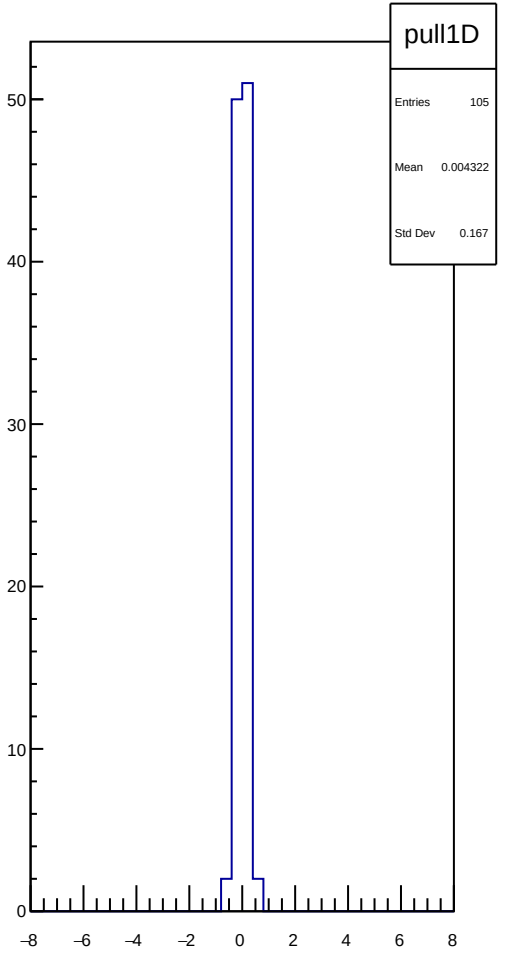

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 7.066 / 104
p0 −30.15 ± 3.421
20
0
−20
−40
−60
−80
−100
pull
Entries 105
Mean 18.74
Std Dev 14.76
0.6
0.4
0.2
0
−0.2
−0.4

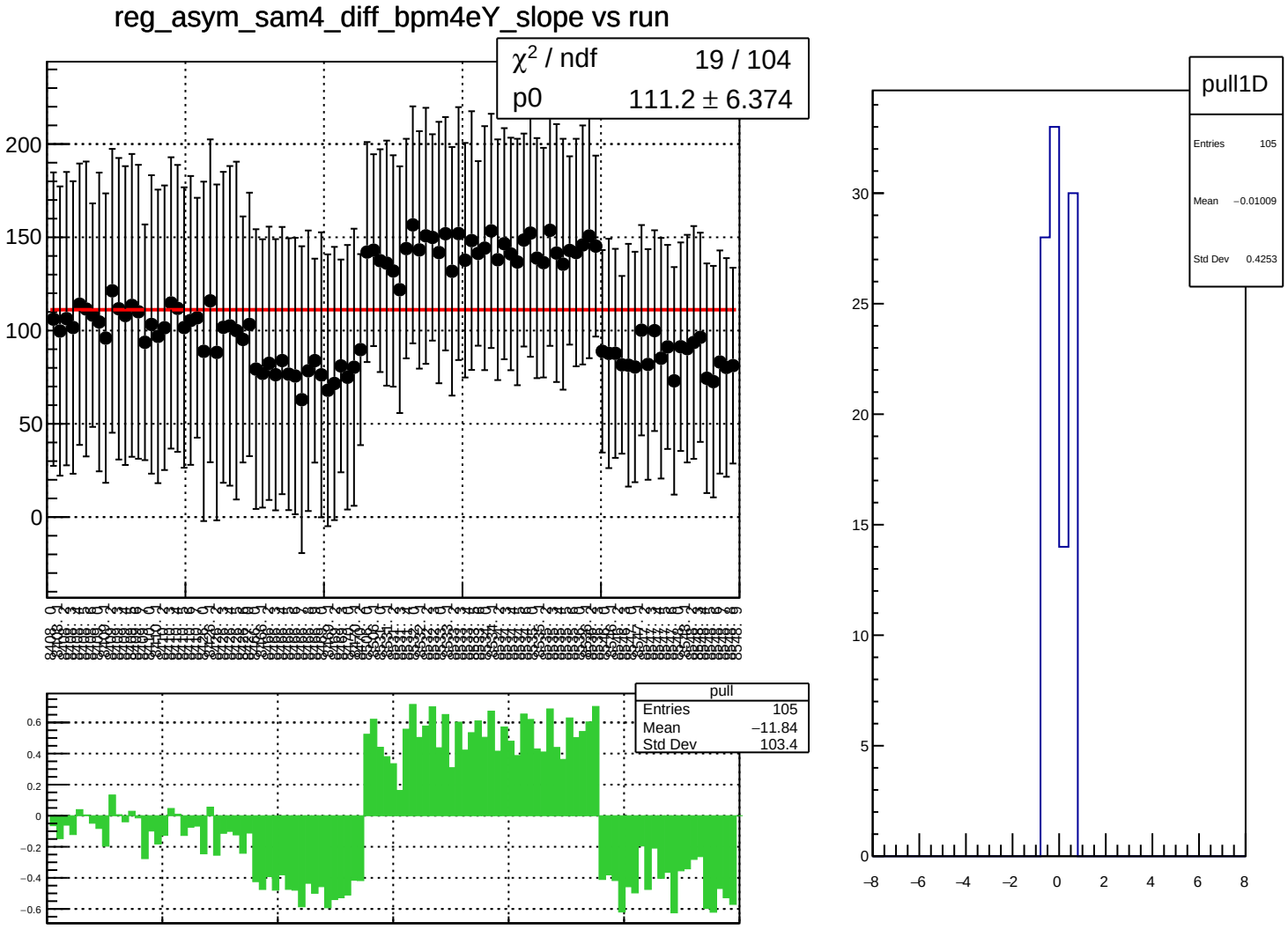

pull1D
Entries 105
Mean −0.02988
Std Dev 0.2577
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

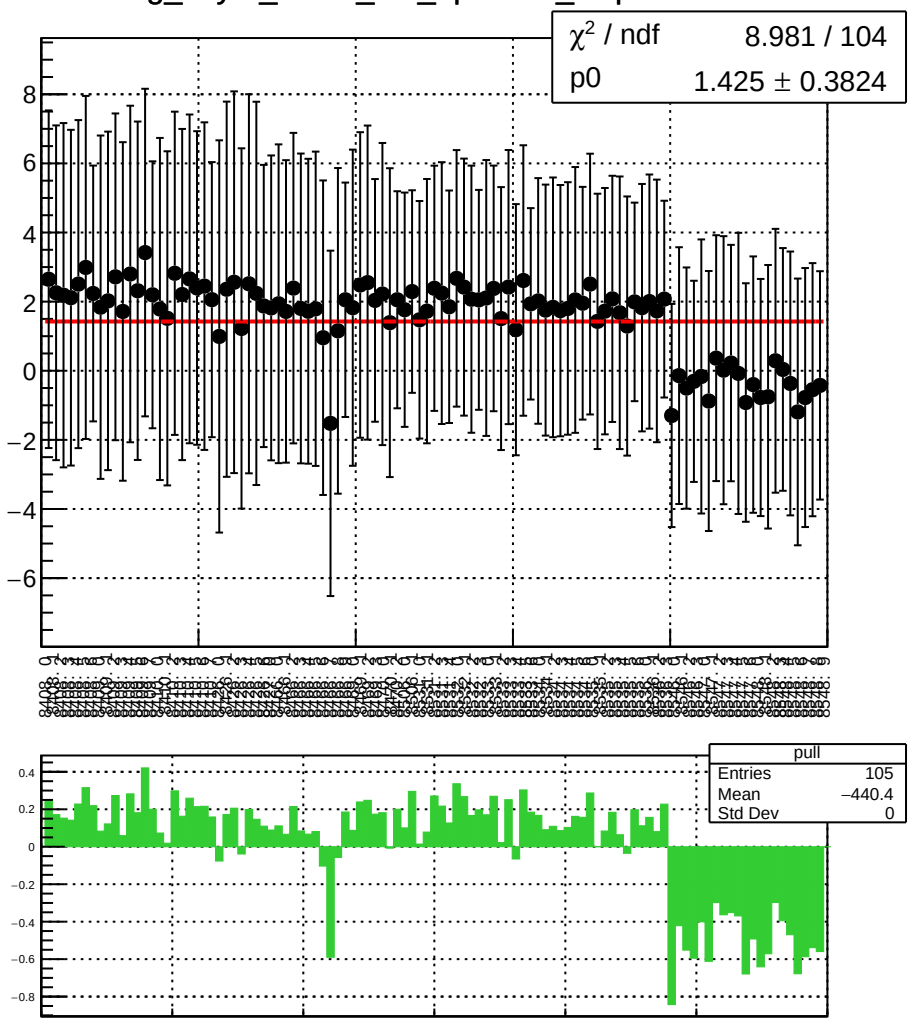

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 14.72 / 104
p0 109.5 ± 5.993
240
220
200
180
160
140
120
100
80
60
40
20
pull
Entries 105
Mean −73.28
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

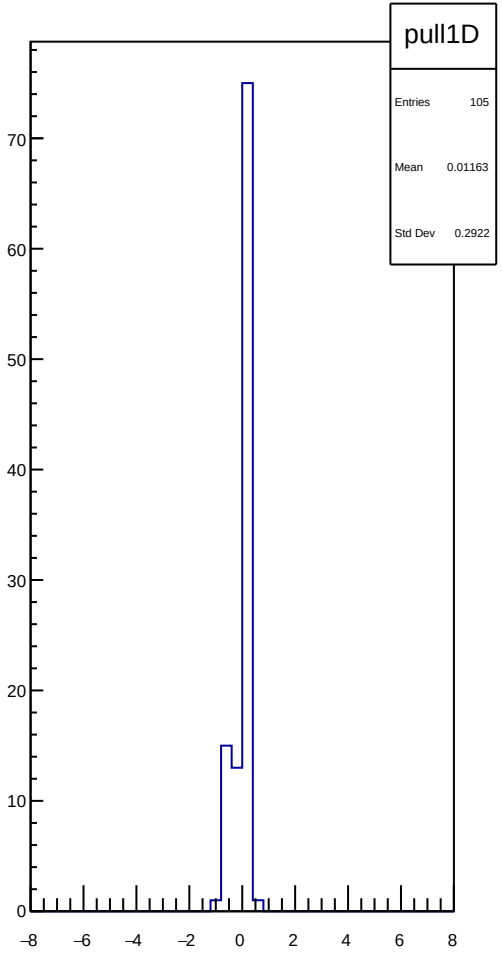

pull1D
Entries 105
Mean 0.01699
Std Dev 0.374
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

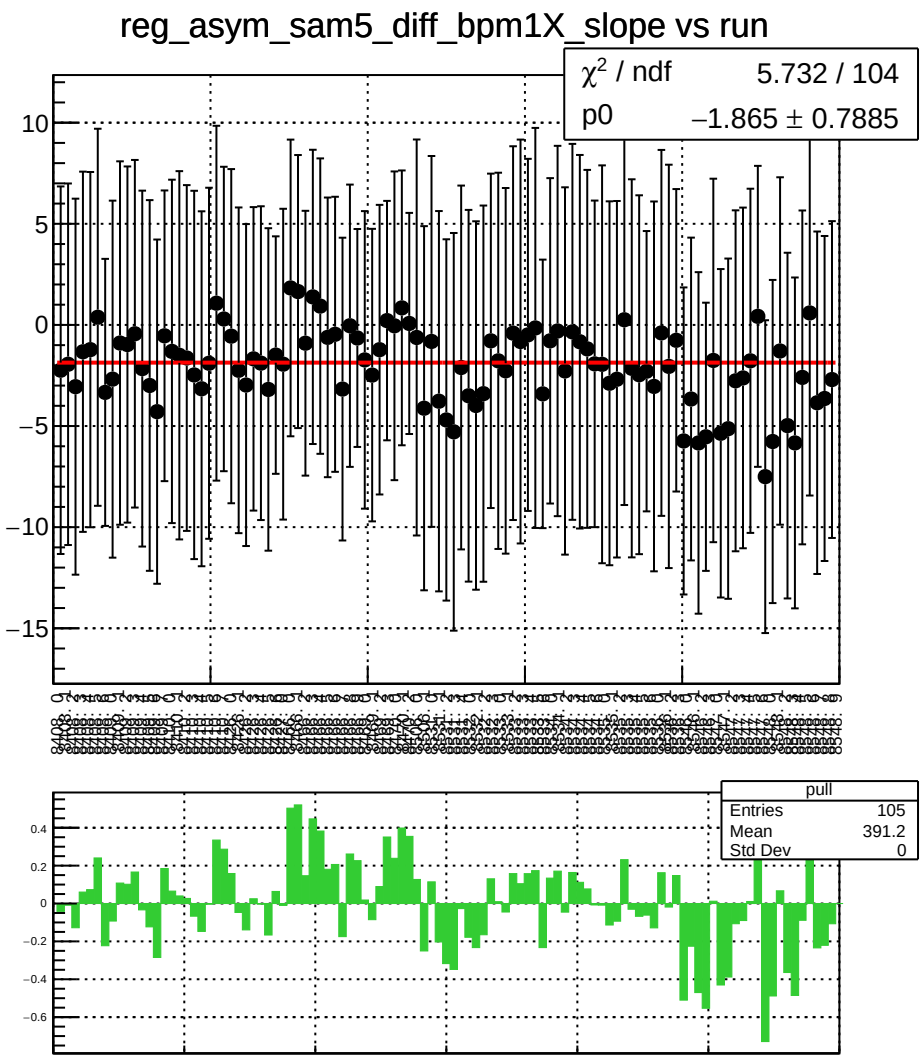

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 2.931 / 104
p0 −142 ± 3.761
−80
−100
−120
−140
−160
−180
−200
pull
Entries 105
Mean 105.9
Std Dev 0
0.4
0.2
0
−0.2
−0.4

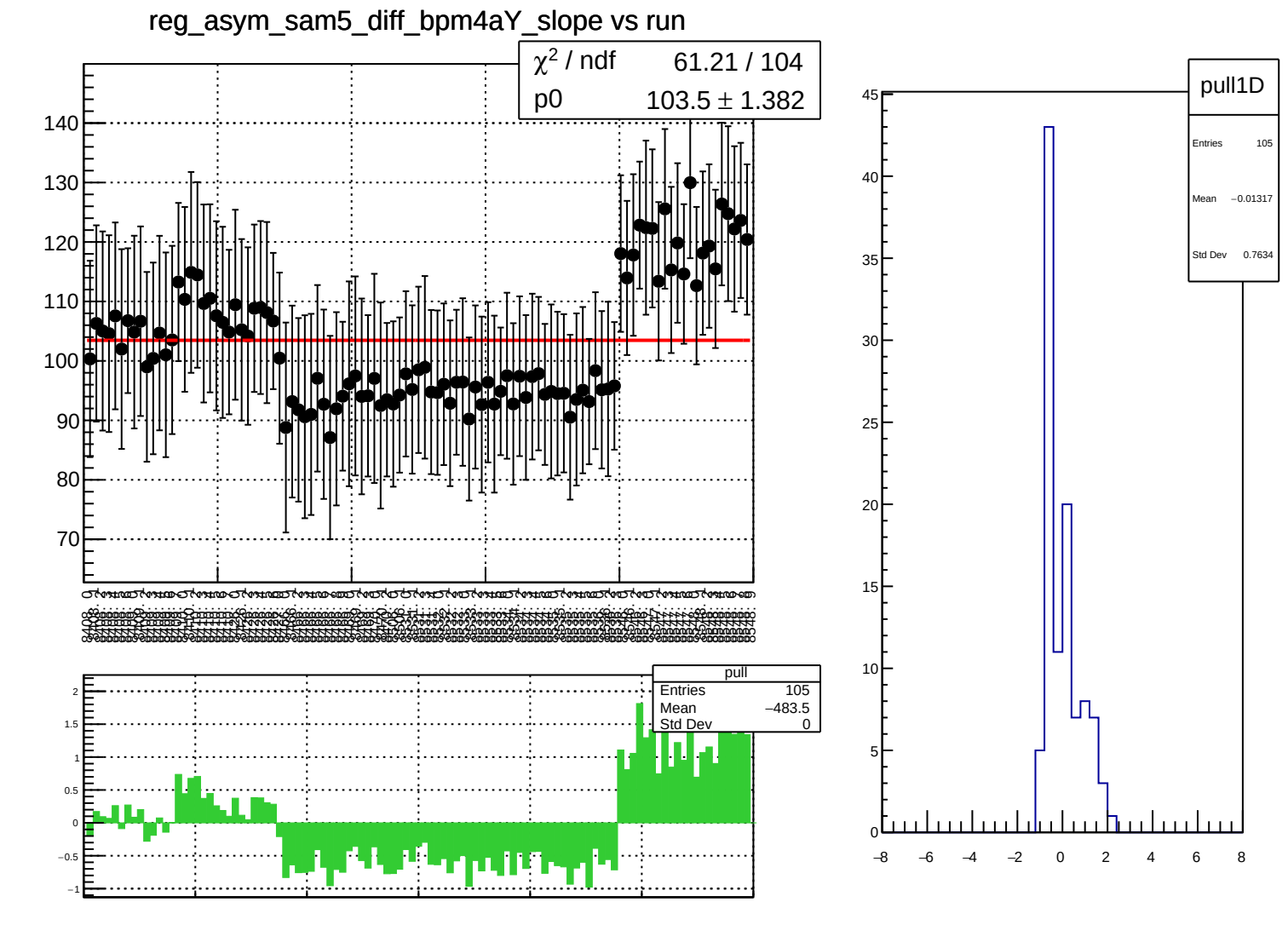

pull1D
Entries 105
Mean 0.004322
Std Dev 0.167
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

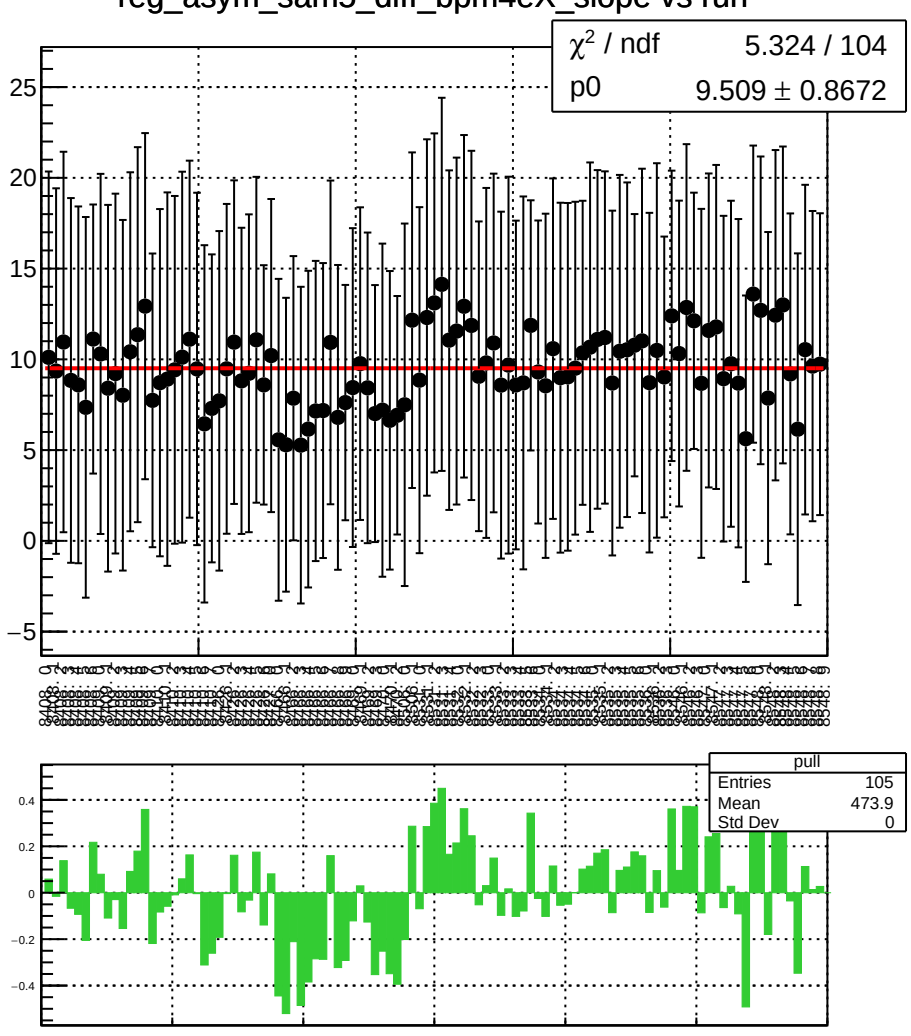

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 19 / 104
p0 111.2 ± 6.374
200
150
100
50
0
pull
Entries 105
Mean −11.84
Std Dev 103.4
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 105
Mean −0.01009
Std Dev 0.4253
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

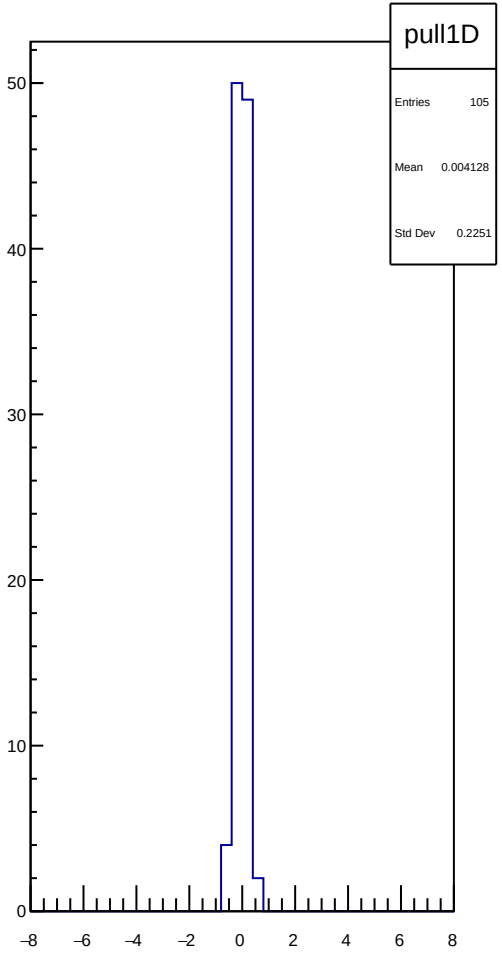

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 8.981 / 104
p0 1.425 ± 0.3824
pull
Entries 105
Mean −440.4
Std Dev 0

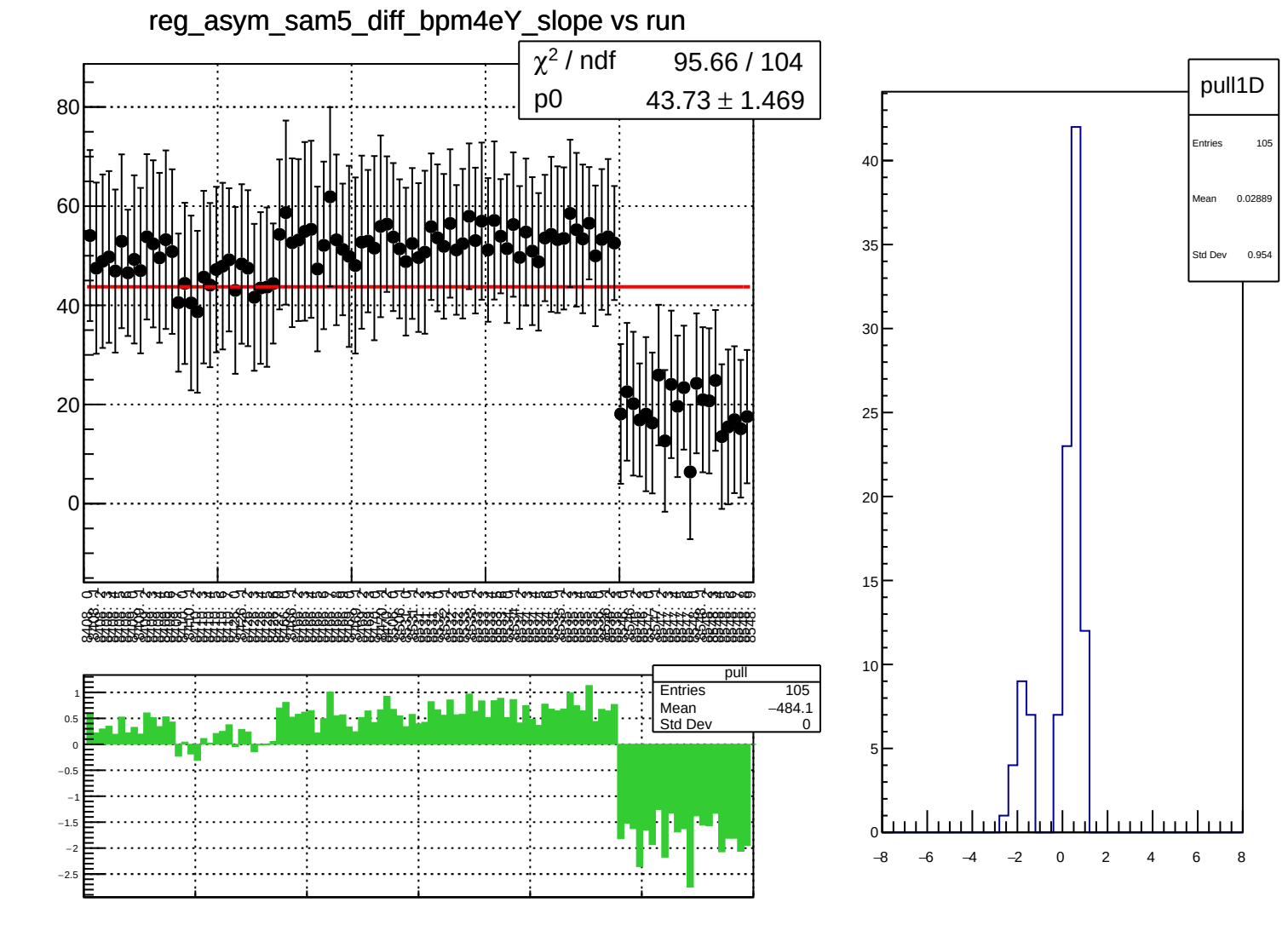

pull1D
Entries 105
Mean 0.01163
Std Dev 0.2922

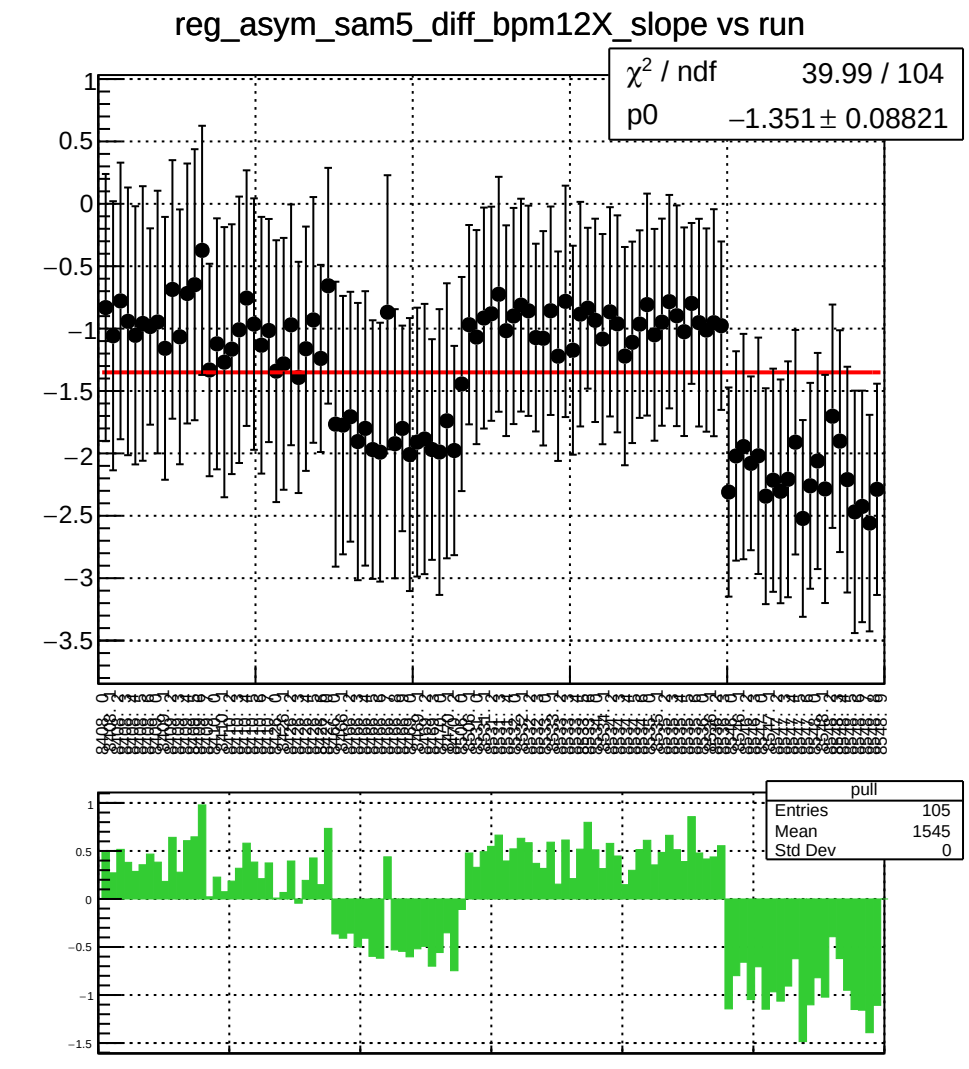

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 5.732 / 104
p0 −1.865 ± 0.7885
pull
Entries 105
Mean 391.2
Std Dev 0
pull1D
Entries 105
Mean −0.007043
Std Dev 0.2335

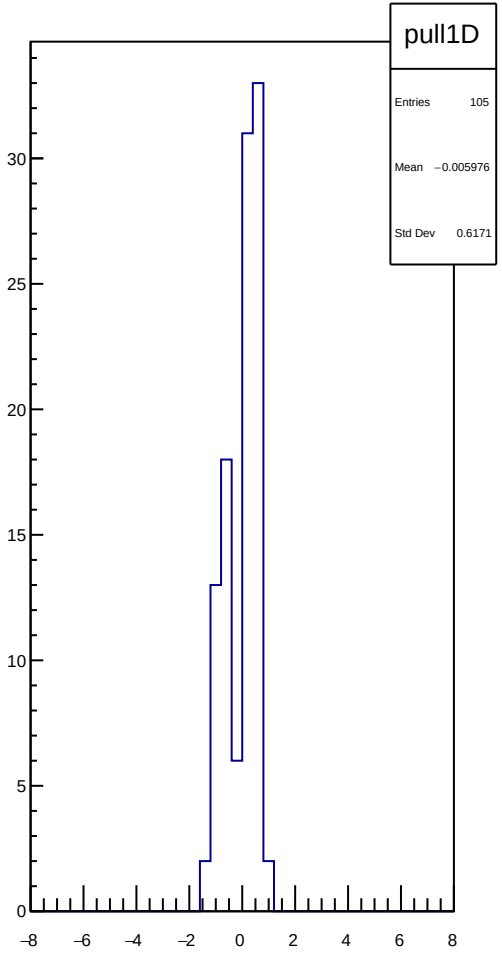

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 61.21 / 104
p0 103.5 ± 1.382
pull
Entries 105
Mean −483.5
Std Dev 0
pull1D
Entries 105
Mean −0.01317
Std Dev 0.7634

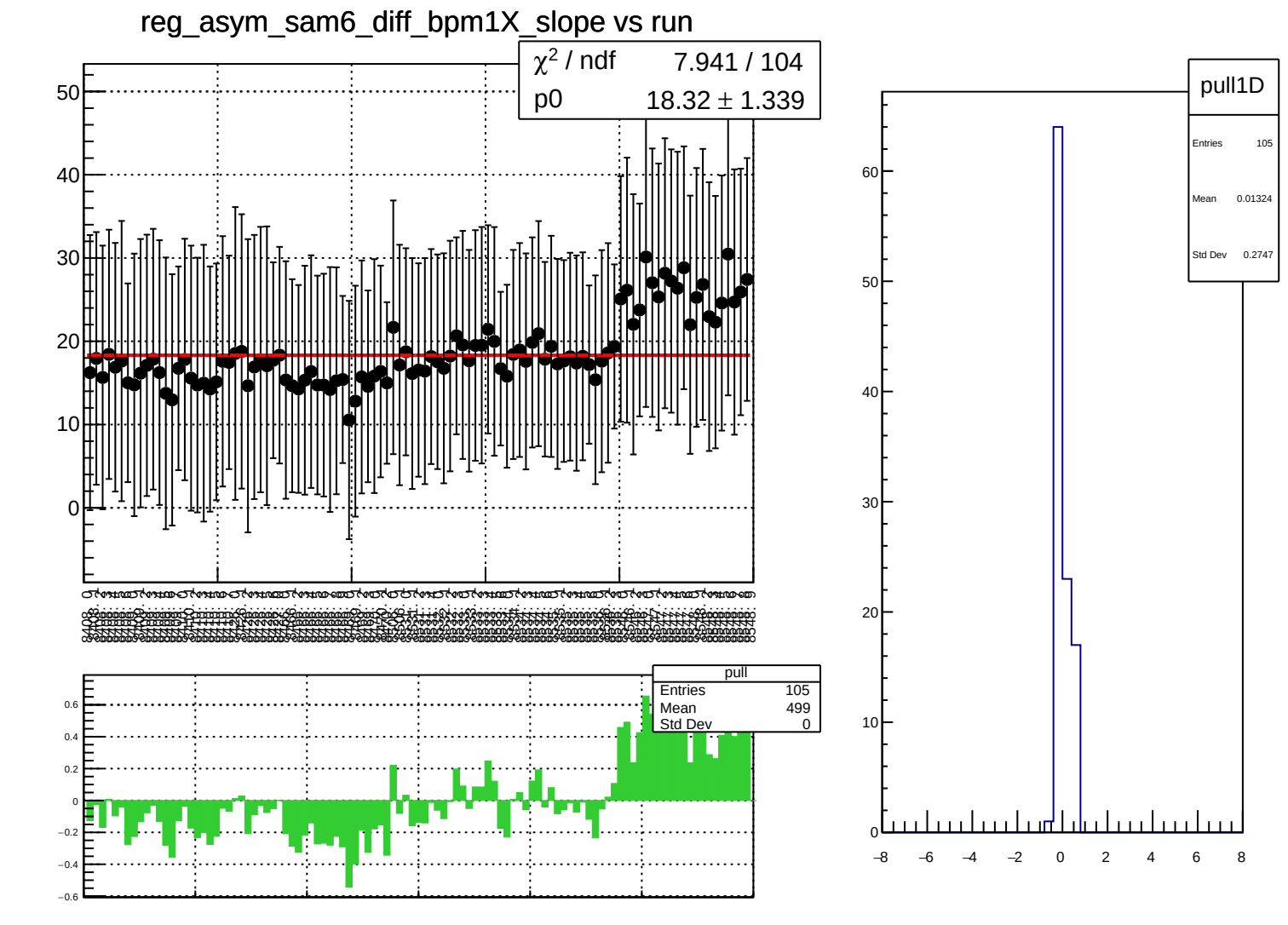

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 5.324 / 104
p0 9.509 ± 0.8672
pull
Entries 105
Mean 473.9
Std Dev 0

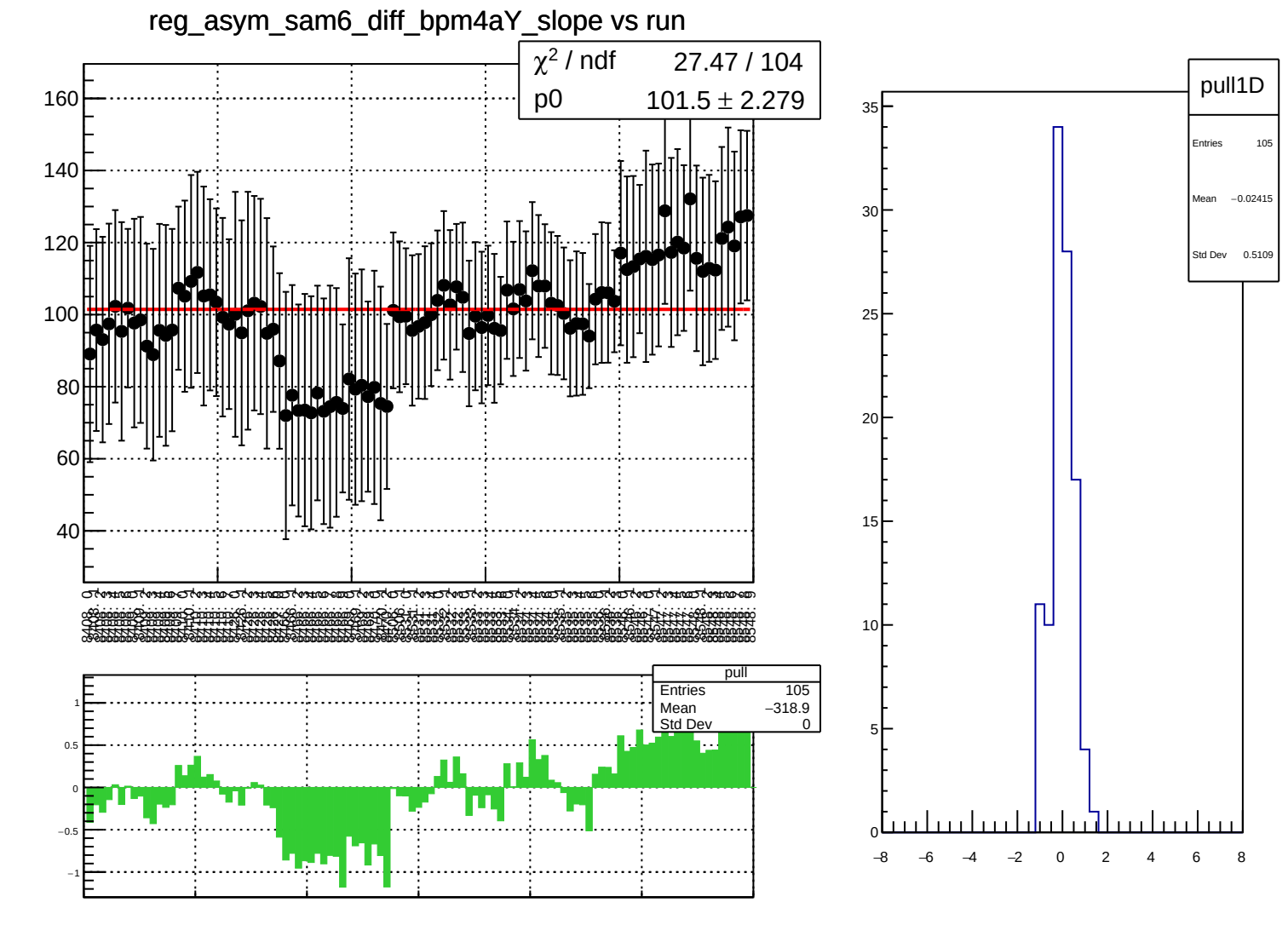

pull1D
Entries 105
Mean 0.004128
Std Dev 0.2251

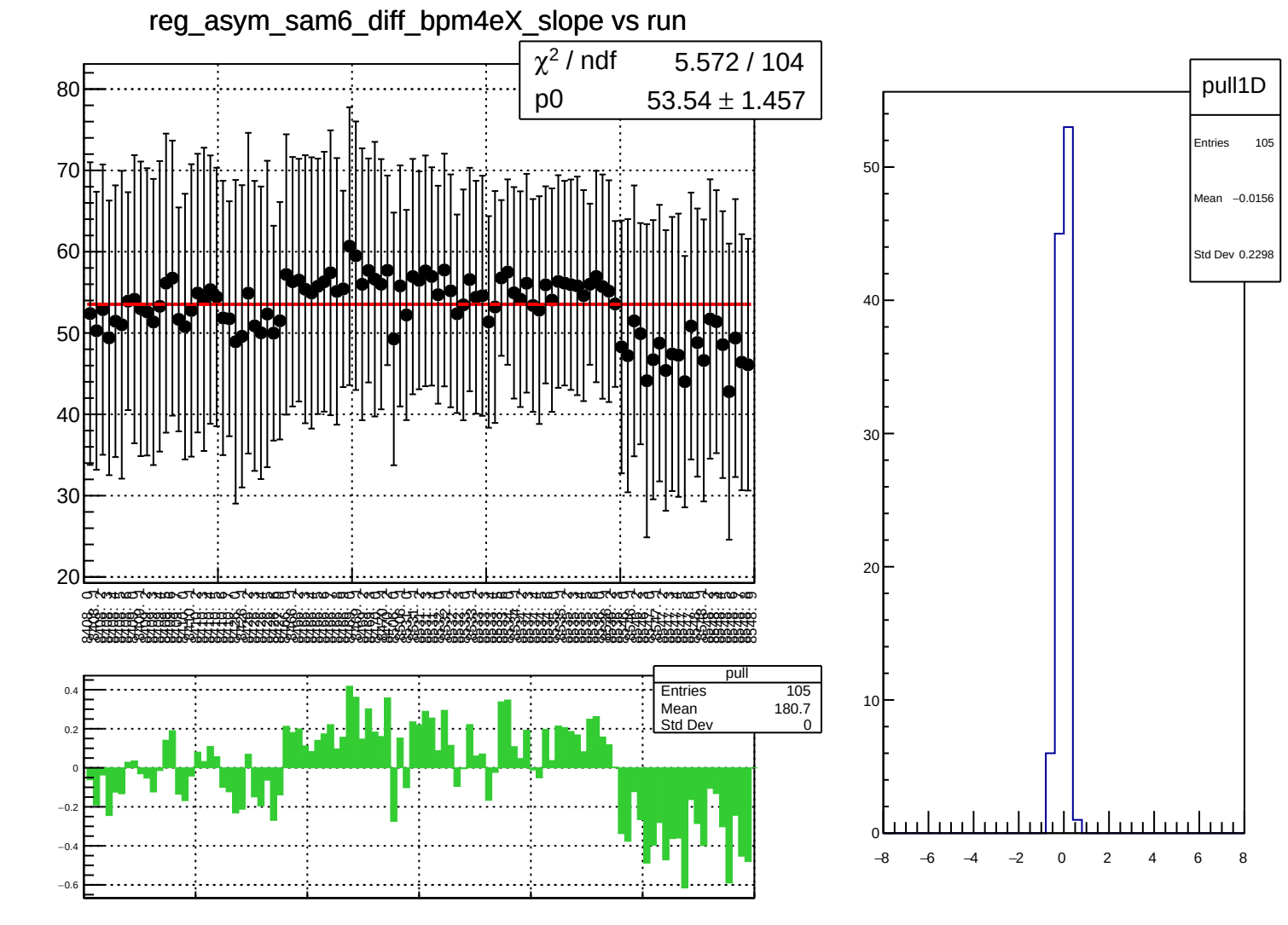

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 95.66 / 104
p0 43.73 ± 1.469
80
60
40
20
0
pull
Entries 105
Mean −484.1
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 105
Mean 0.02889
Std Dev 0.954
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

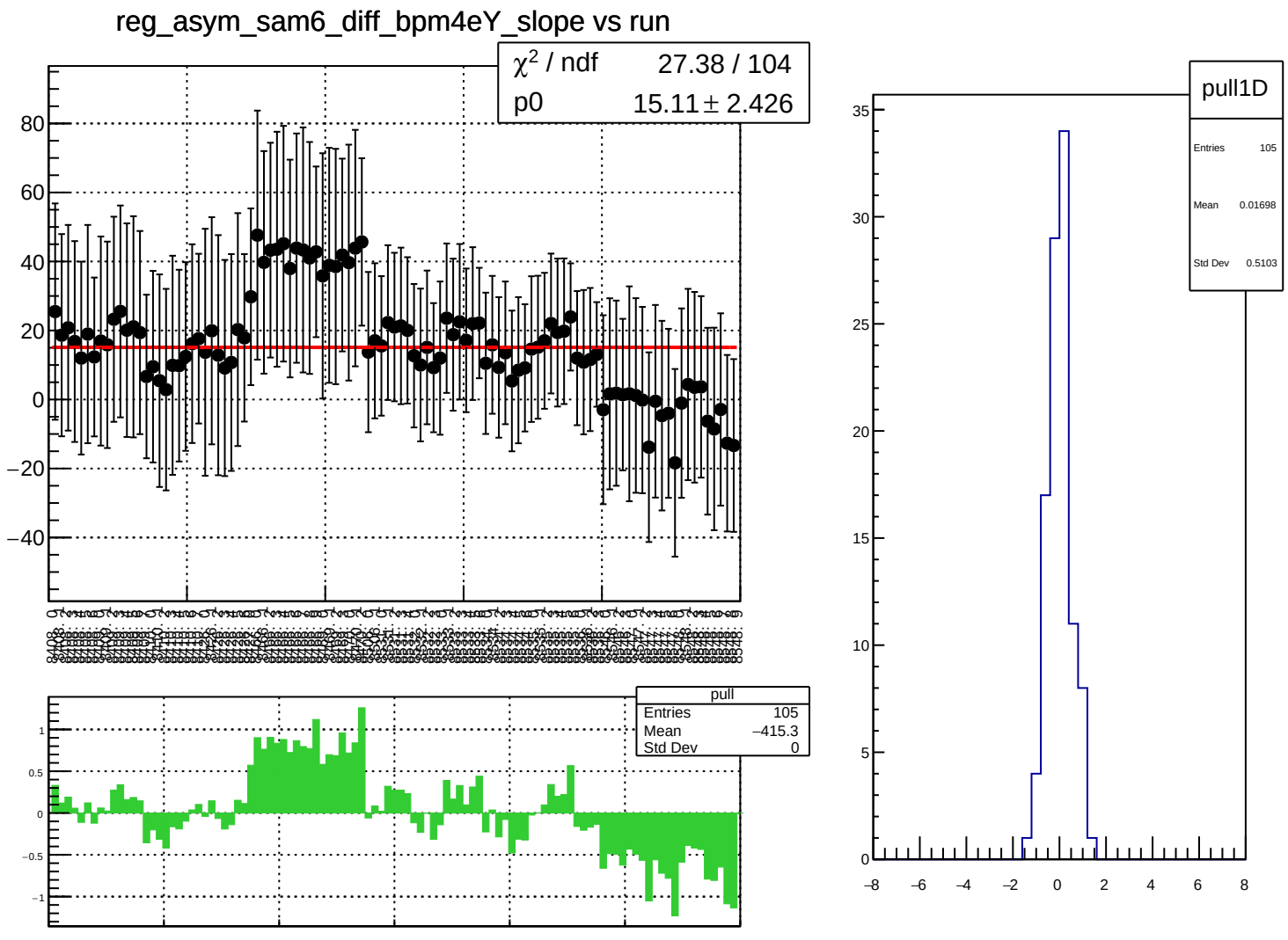

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 39.99 / 104
p0 −1.351 ± 0.08821
pull
Entries 105
Mean 1545
Std Dev 0

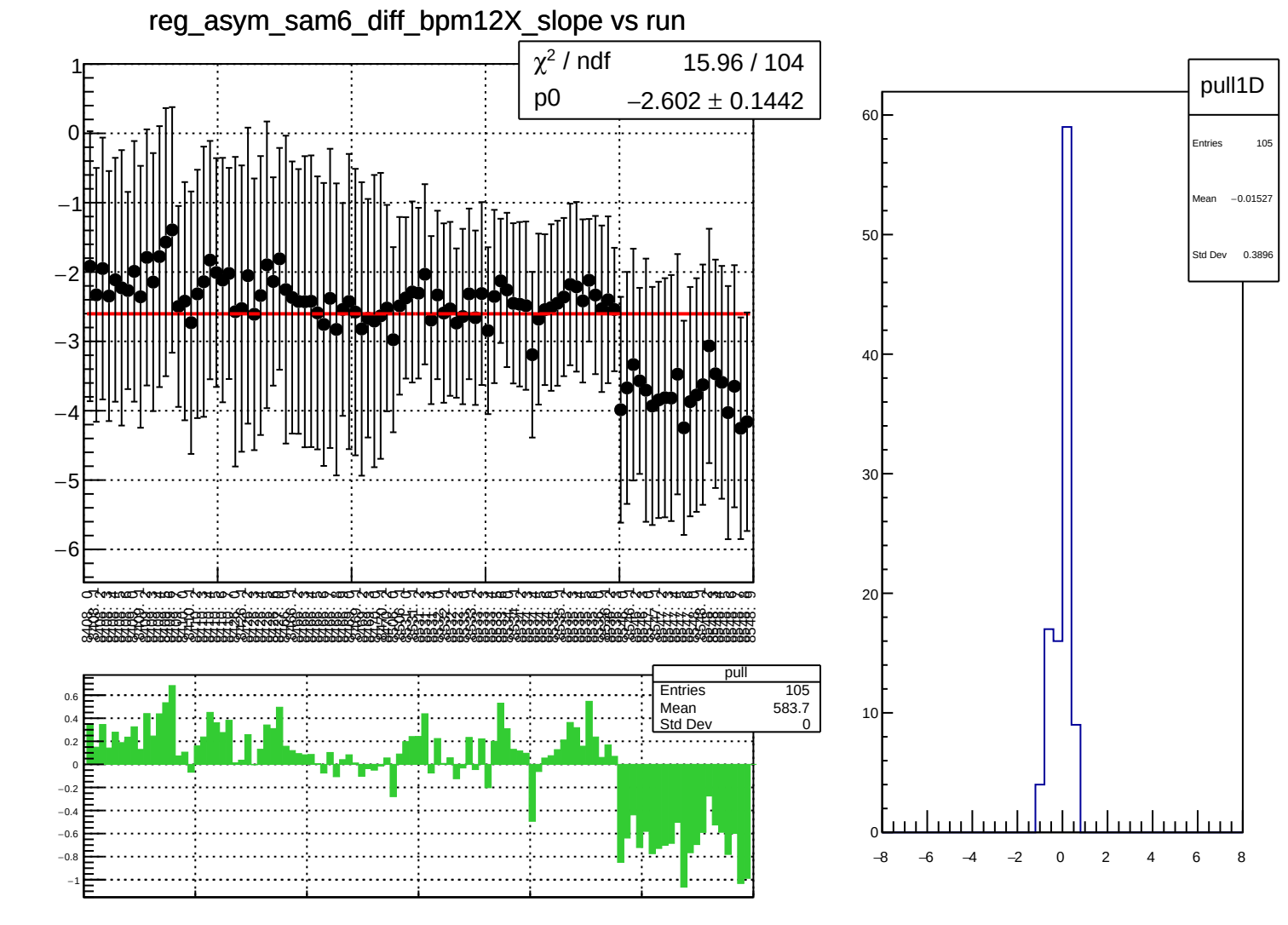

pull1D
Entries 105
Mean −0.005976
Std Dev 0.6171

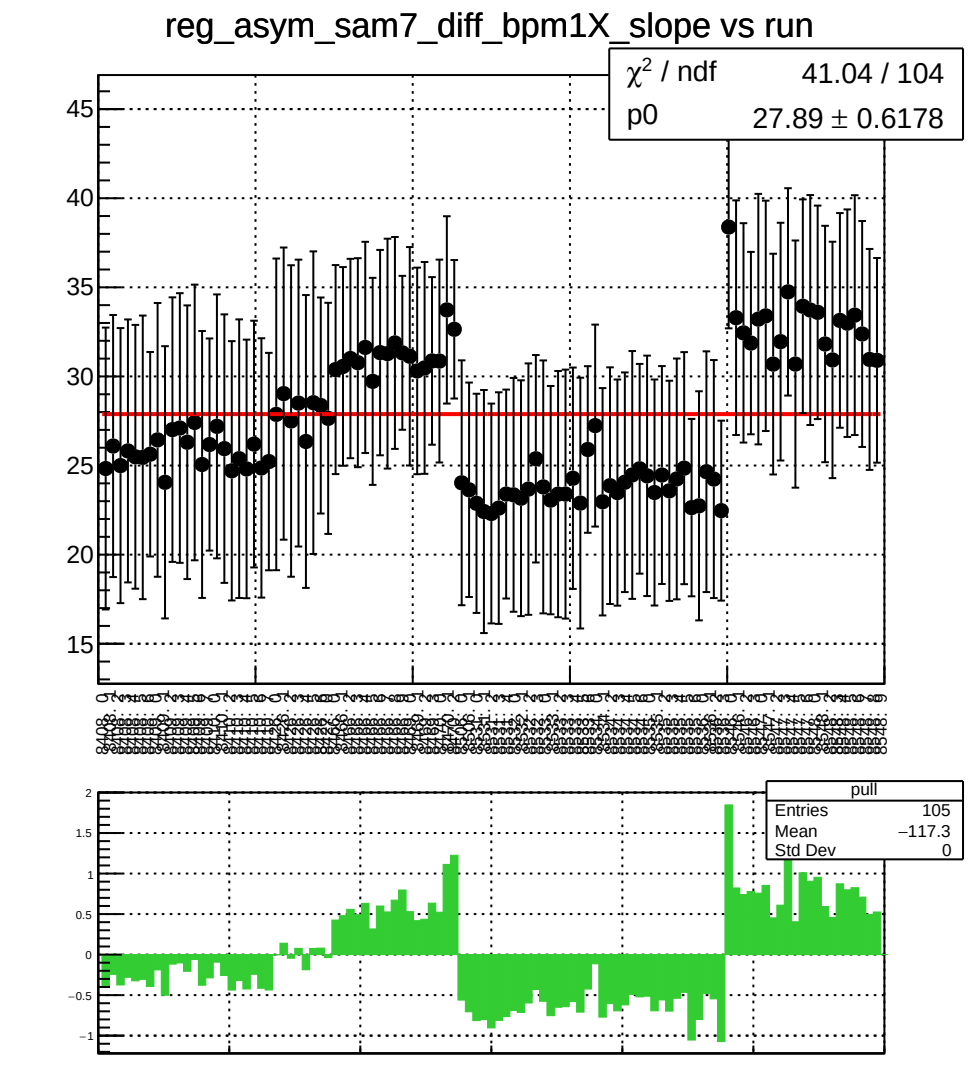

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 7.941 / 104
p0 18.32 ± 1.339
pull
Entries 105
Mean 499
Std Dev 0
pull1D
Entries 105
Mean 0.01324
Std Dev 0.2747

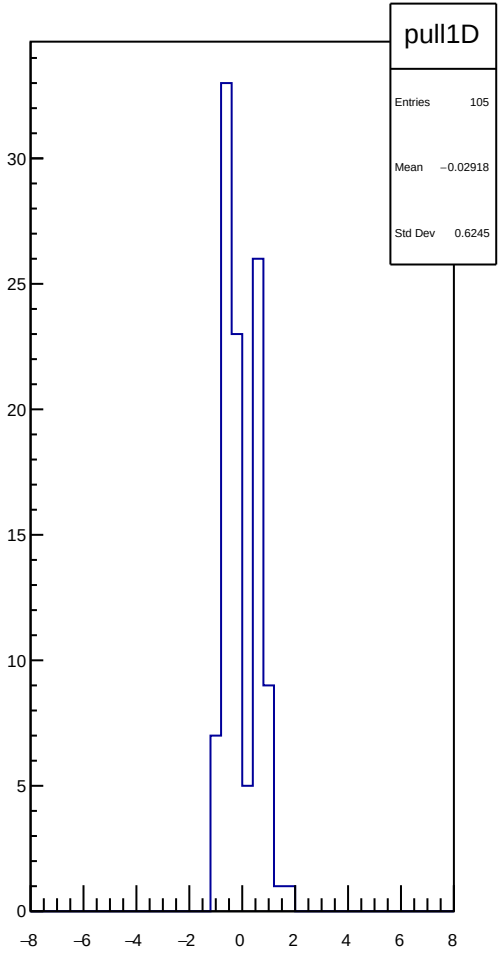

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 27.47 / 104
p0 101.5 ± 2.279
160
140
120
100
80
60
40
pull
Entries 105
Mean −318.9
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 105
Mean −0.02415
Std Dev 0.5109
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

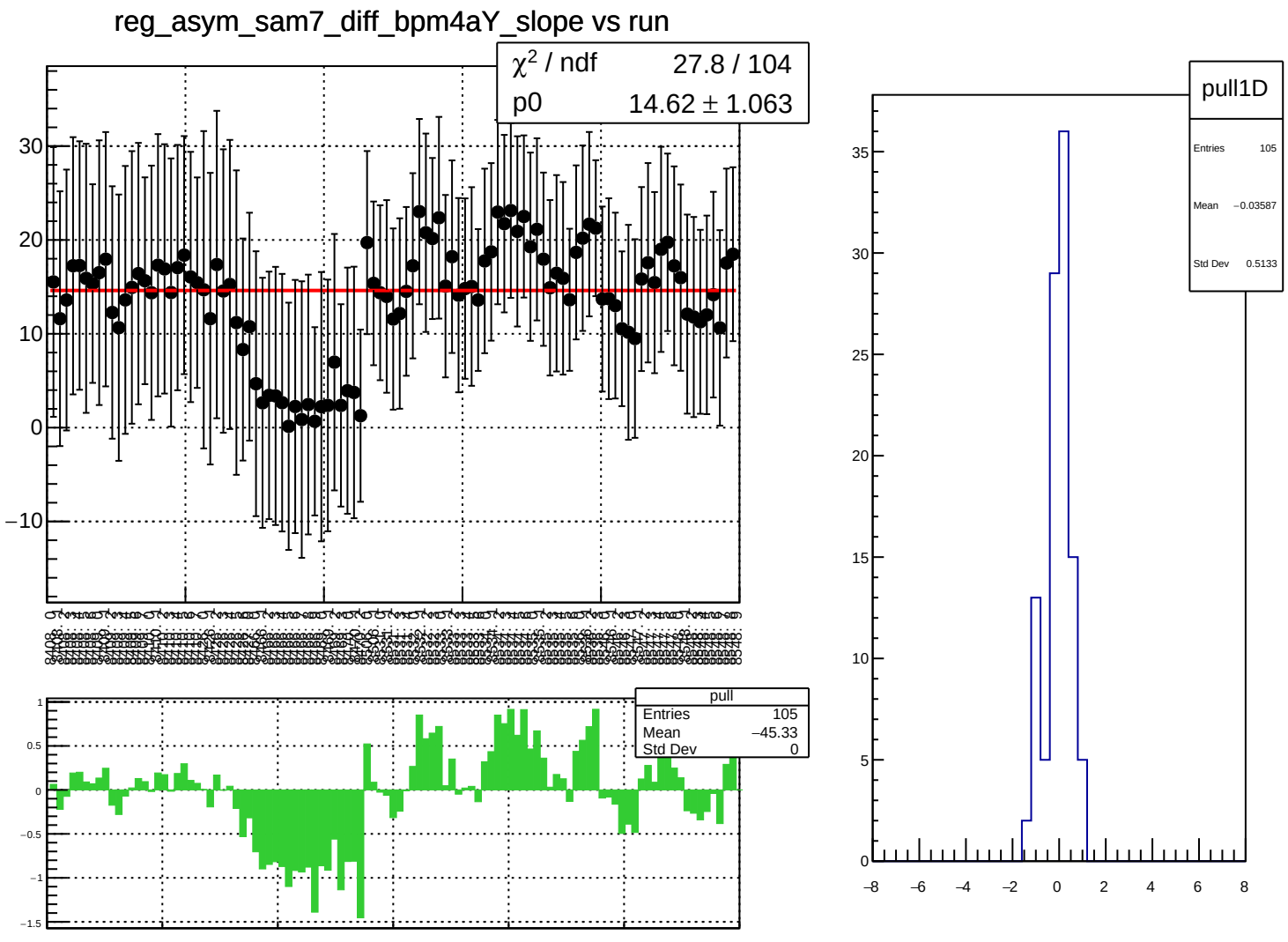

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 5.572 / 104
p0 53.54 ± 1.457
80
70
60
50
40
30
20
pull
Entries 105
Mean 180.7
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 105
Mean −0.0156
Std Dev 0.2298
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

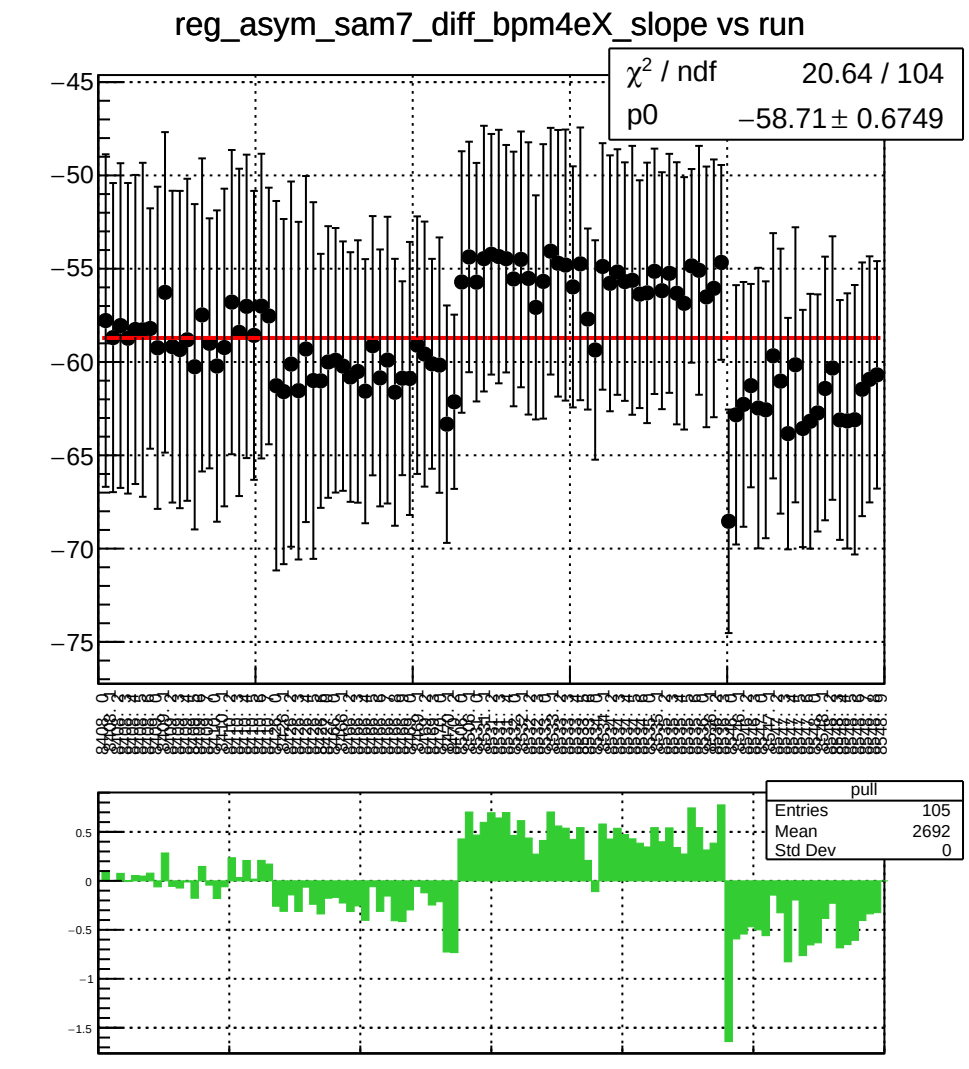

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 27.38 / 104
p0 15.11 ± 2.426
80
60
40
20
0
−20
−40
pull
Entries 105
Mean −415.3
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 105
Mean 0.01698
Std Dev 0.5103
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

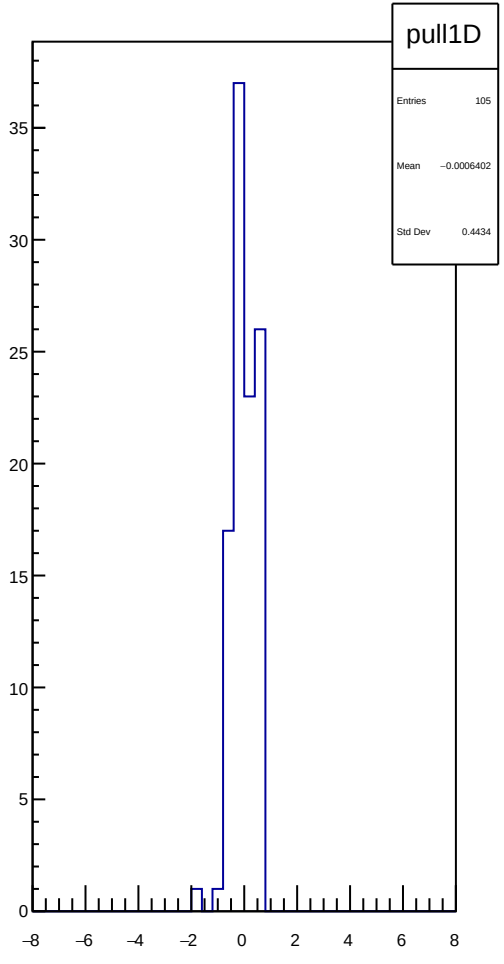

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 15.96 / 104
p0 −2.602 ± 0.1442
pull
Entries 105
Mean 583.7
Std Dev 0
pull1D
Entries 105
Mean −0.01527
Std Dev 0.3896

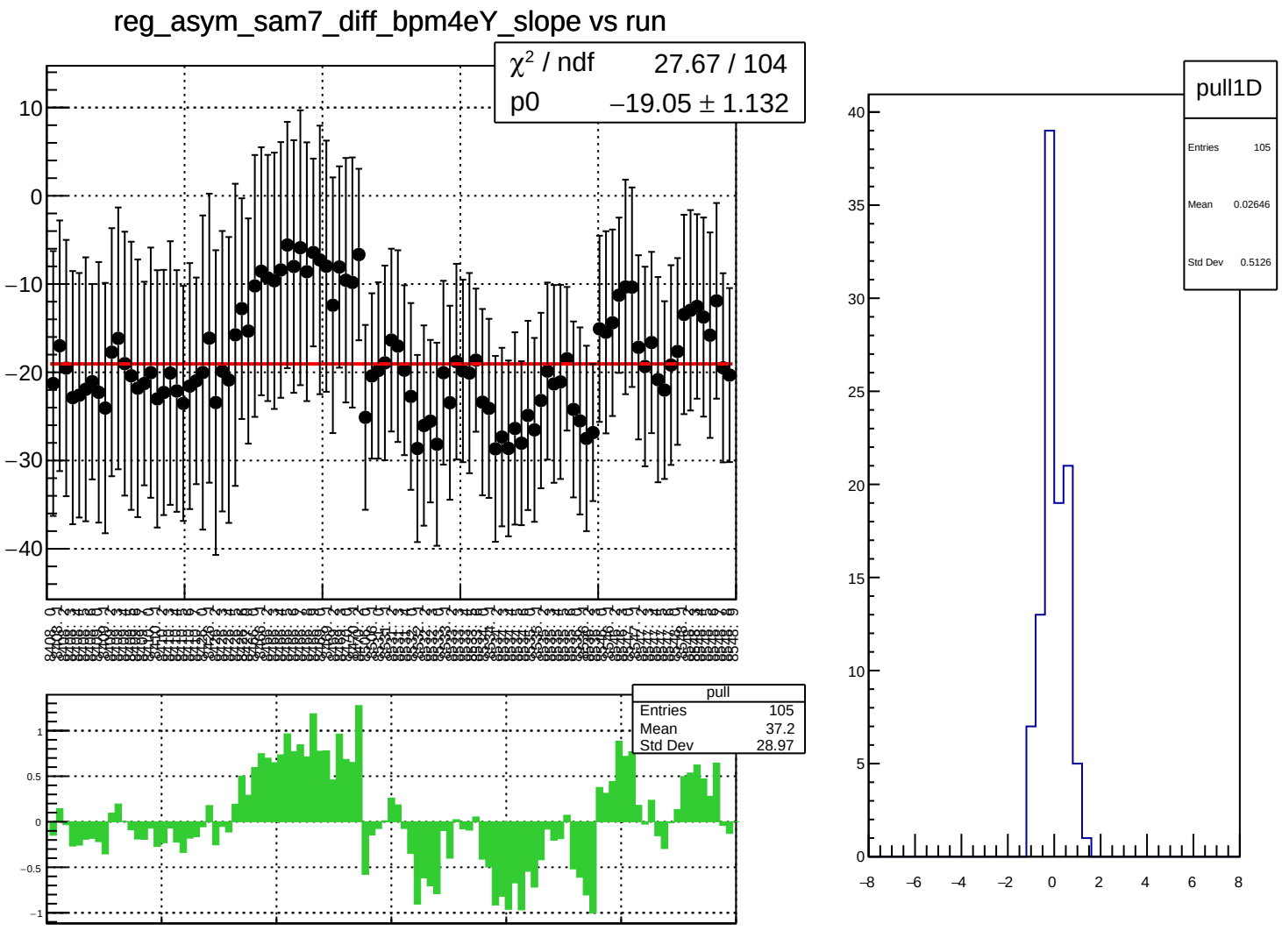

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 41.04 / 104
p0 27.89 ± 0.6178
pull
Entries 105
Mean −117.3
Std Dev 0

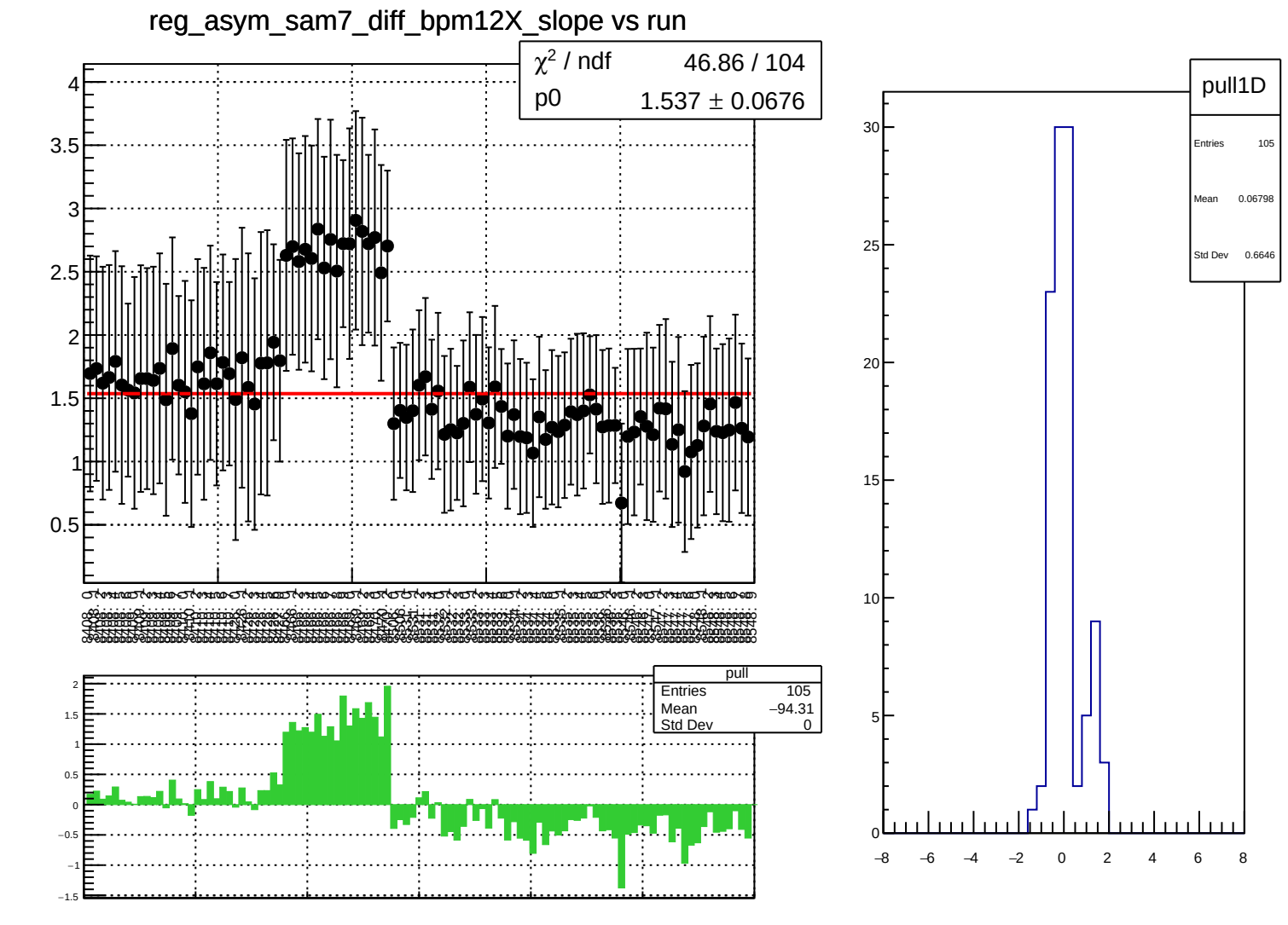

pull1D
Entries 105
Mean −0.02918
Std Dev 0.6245

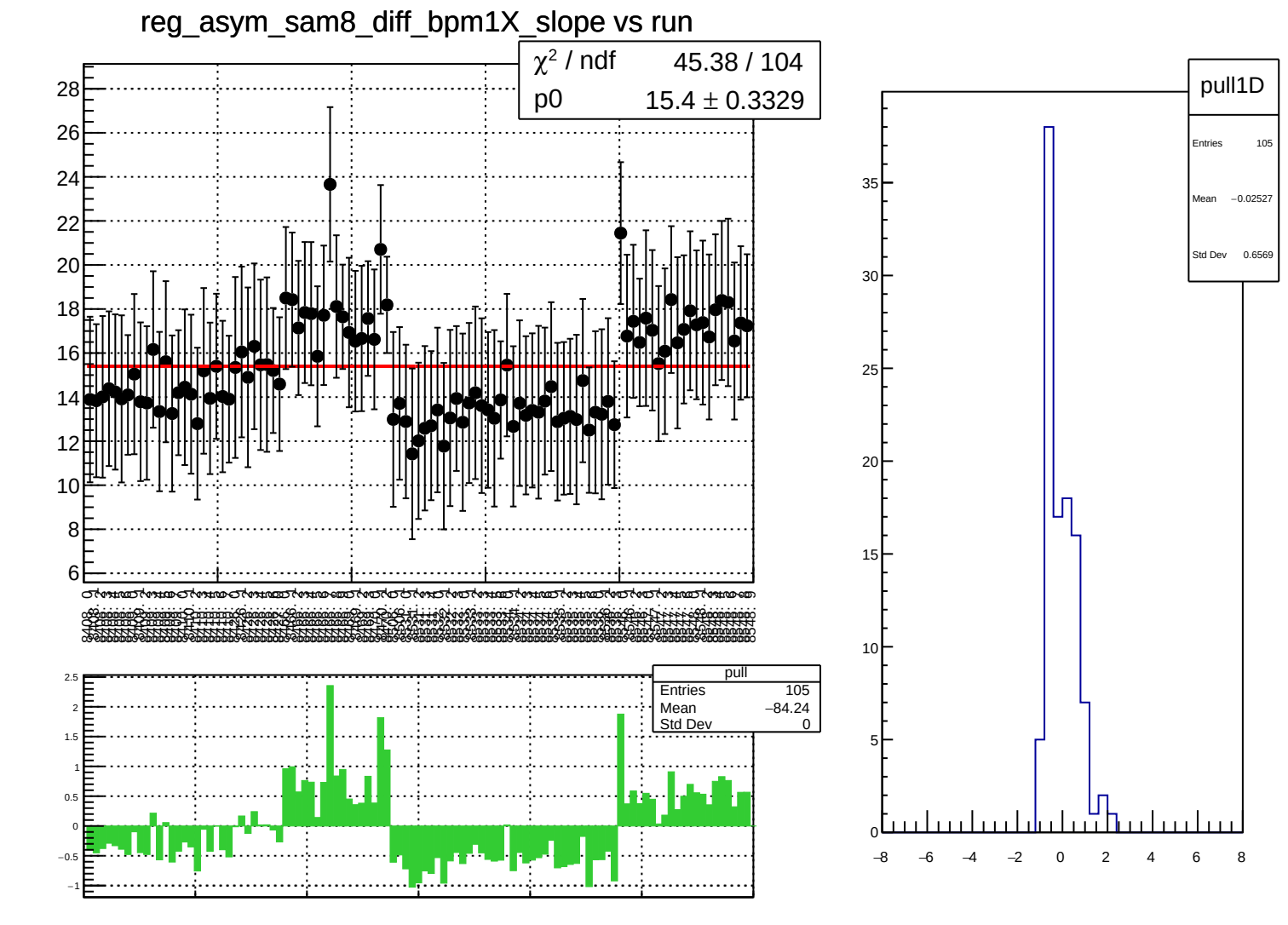

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 27.8 / 104
p0 14.62 ± 1.063
30
20
10
0
−10
pull
Entries 105
Mean −45.33
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 105
Mean −0.03587
Std Dev 0.5133
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

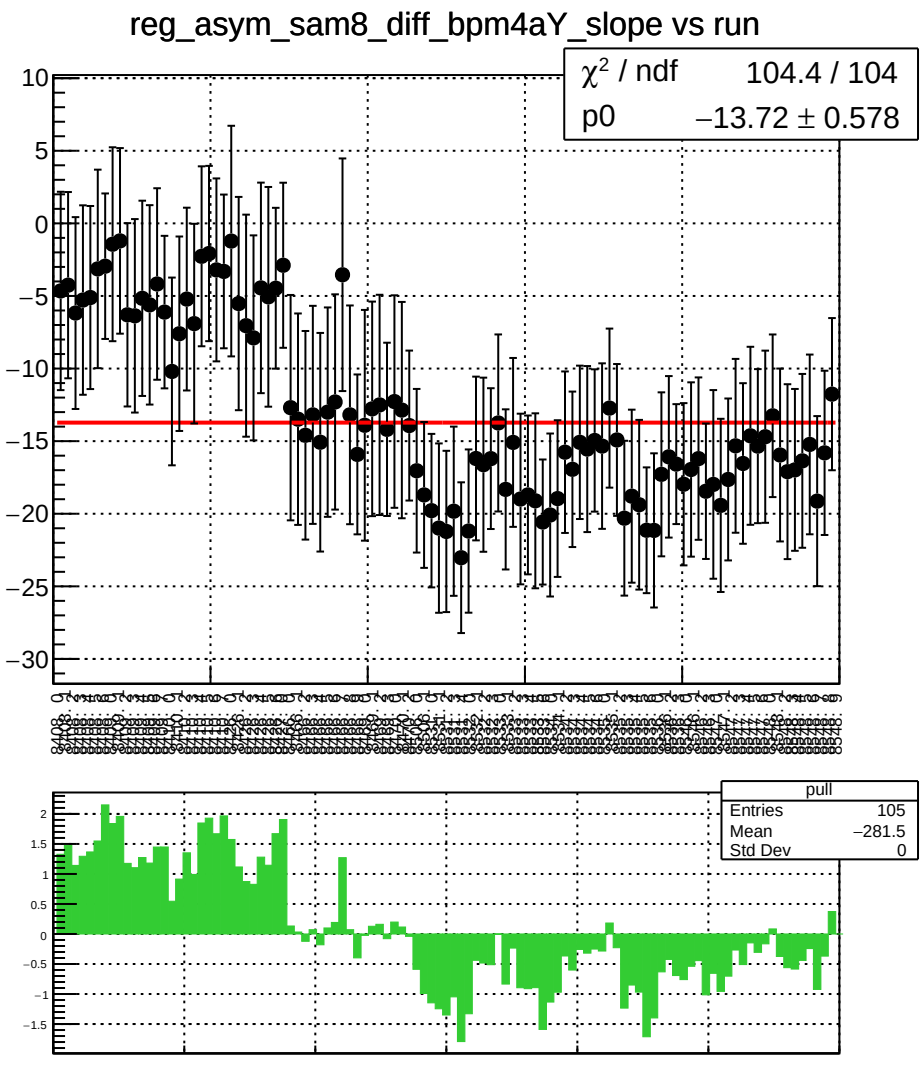

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 20.64 / 104
p0 −58.71 ± 0.6749
−45
−50
−55
−60
−65
−70
−75
pull
Entries 105
Mean 2692
Std Dev 0
0.5
0
−0.5
−1
−1.5

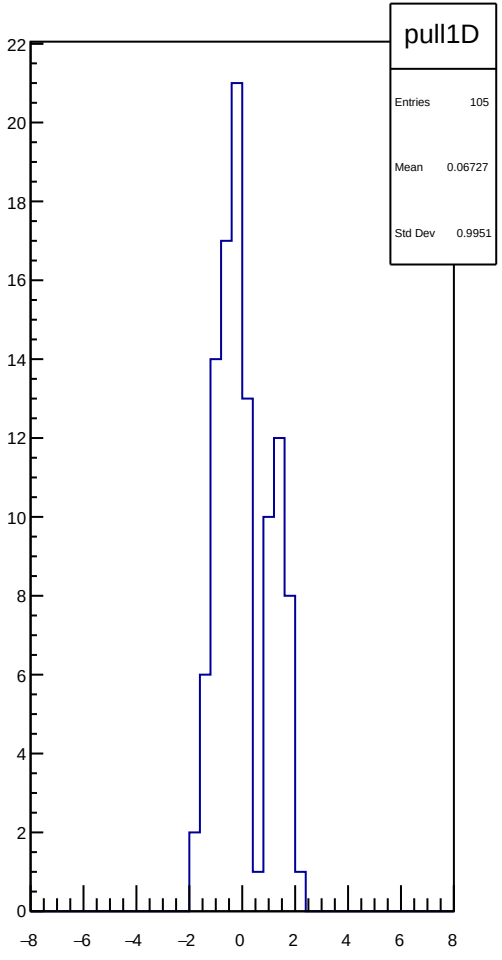

pull1D
Entries 105
Mean −0.0006402
Std Dev 0.4434
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

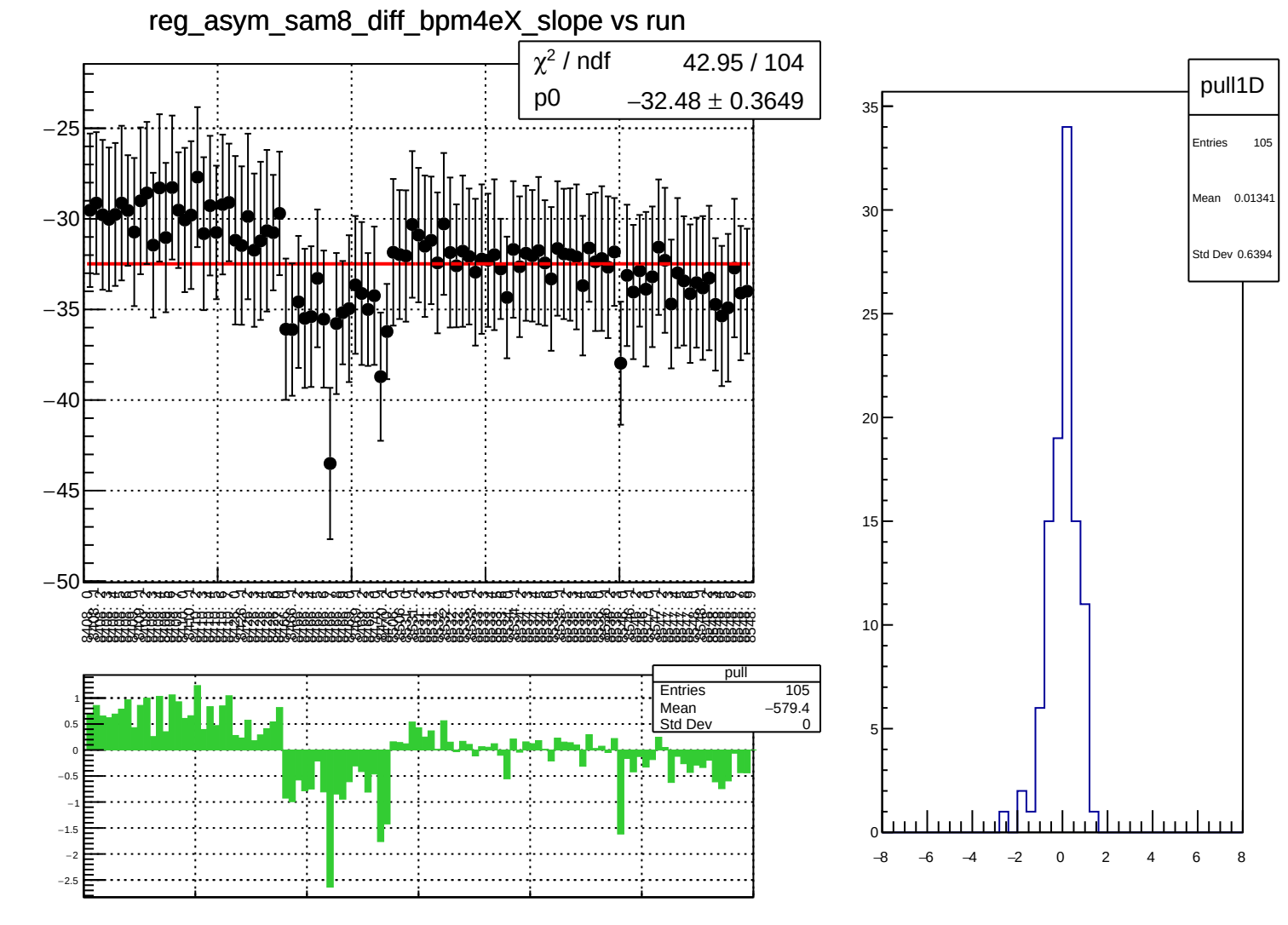

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 27.67 / 104
p0 −19.05 ± 1.132
pull
Entries 105
Mean 37.2
Std Dev 28.97
pull1D
Entries 105
Mean 0.02646
Std Dev 0.5126

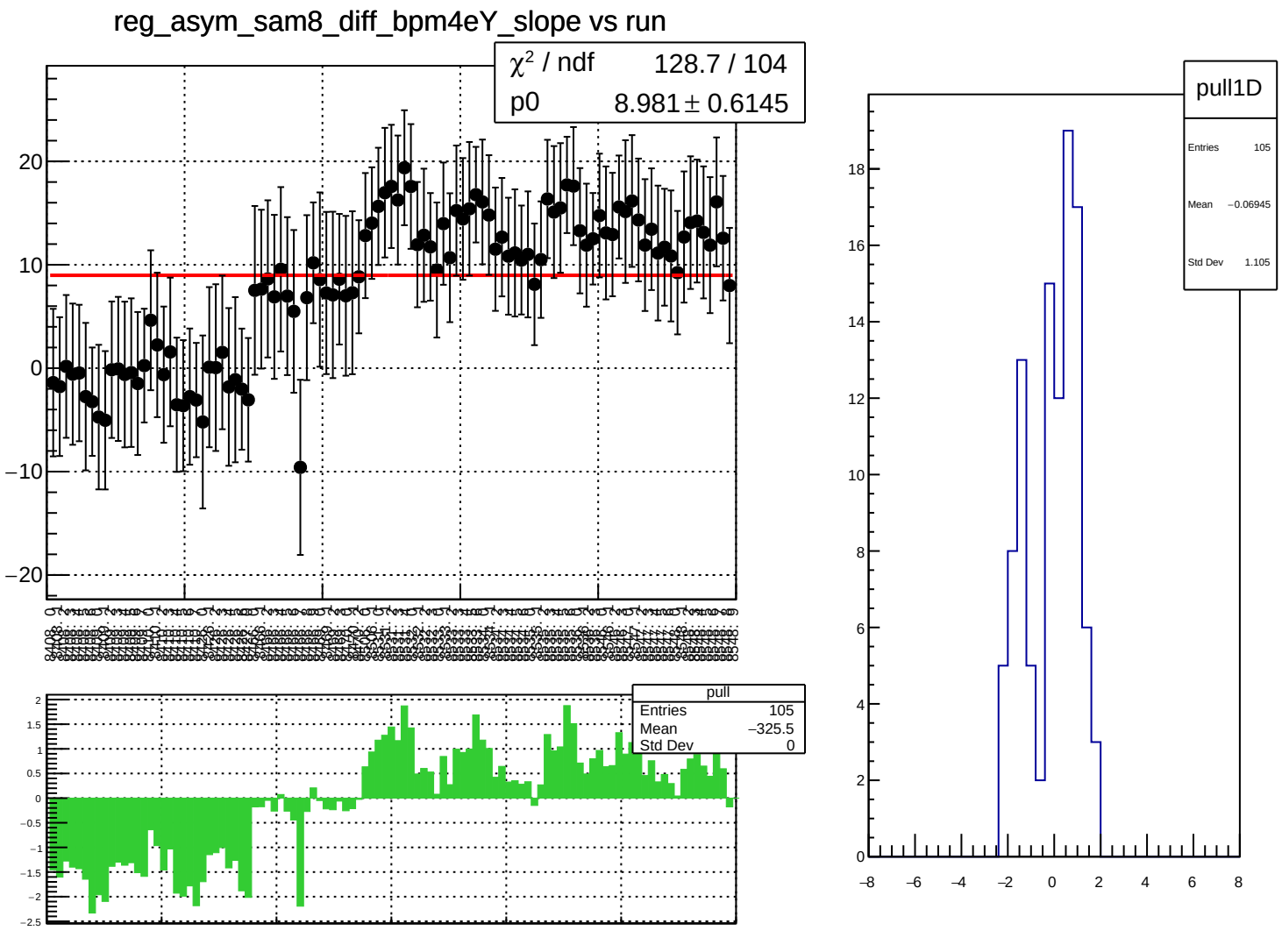

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 46.86 / 104
p0 1.537 ± 0.0676
pull
Entries 105
Mean −94.31
Std Dev 0
pull1D
Entries 105
Mean 0.06798
Std Dev 0.6646

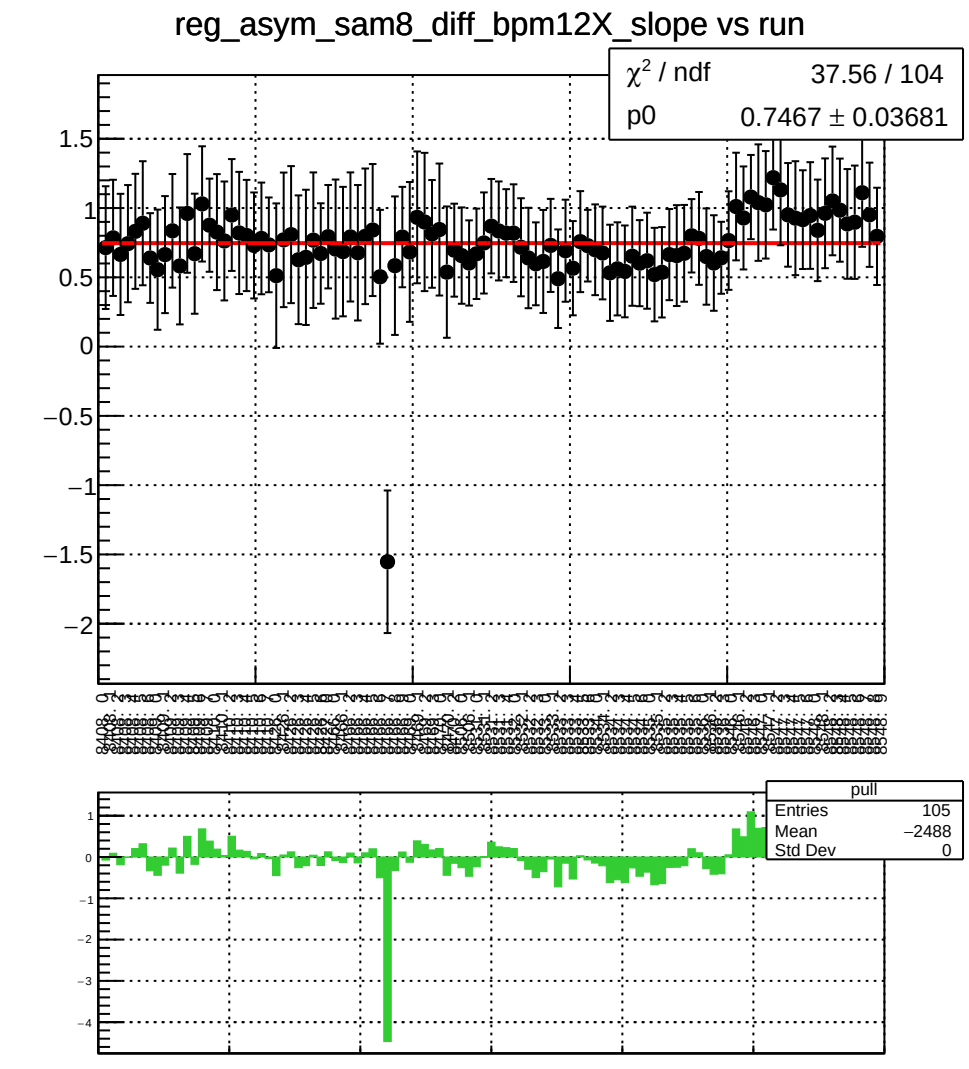

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 45.38 / 104
p0 15.4 ± 0.3329
pull
Entries 105
Mean −84.24
Std Dev 0
pull1D
Entries 105
Mean −0.02527
Std Dev 0.6569

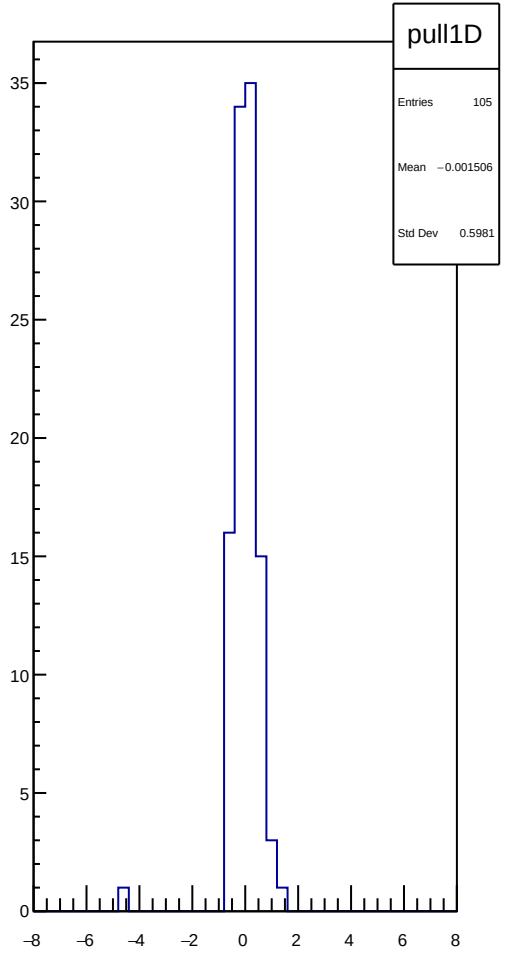

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 104.4 / 104
p0 −13.72 ± 0.578
pull
Entries 105
Mean −281.5
Std Dev 0

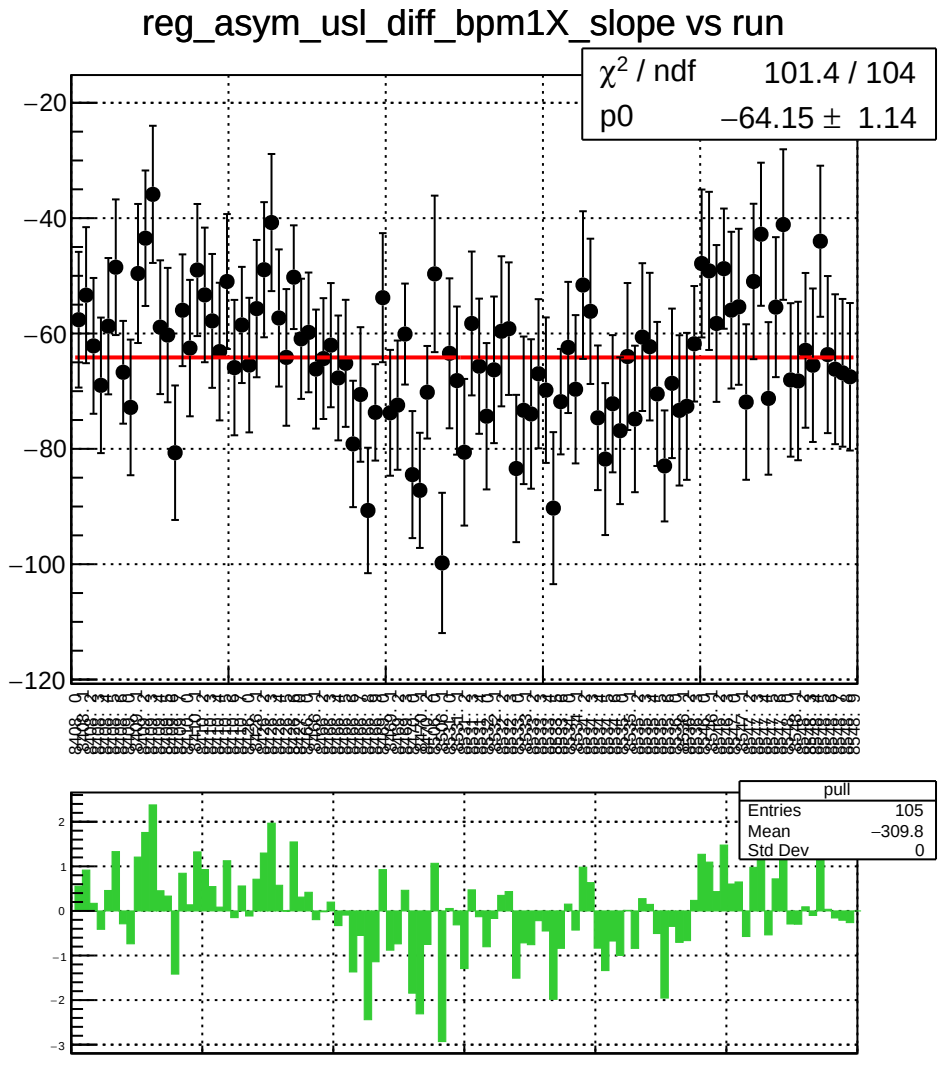

pull1D
Entries 105
Mean 0.06727
Std Dev 0.9951

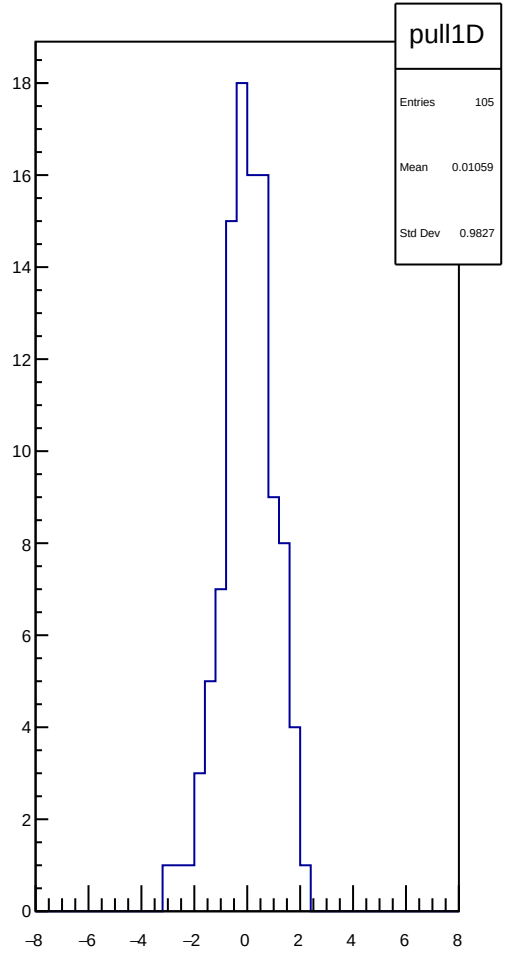

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 42.95 / 104
p0 −32.48 ± 0.3649
pull
Entries 105
Mean −579.4
Std Dev 0
pull1D
Entries 105
Mean 0.01341
Std Dev 0.6394

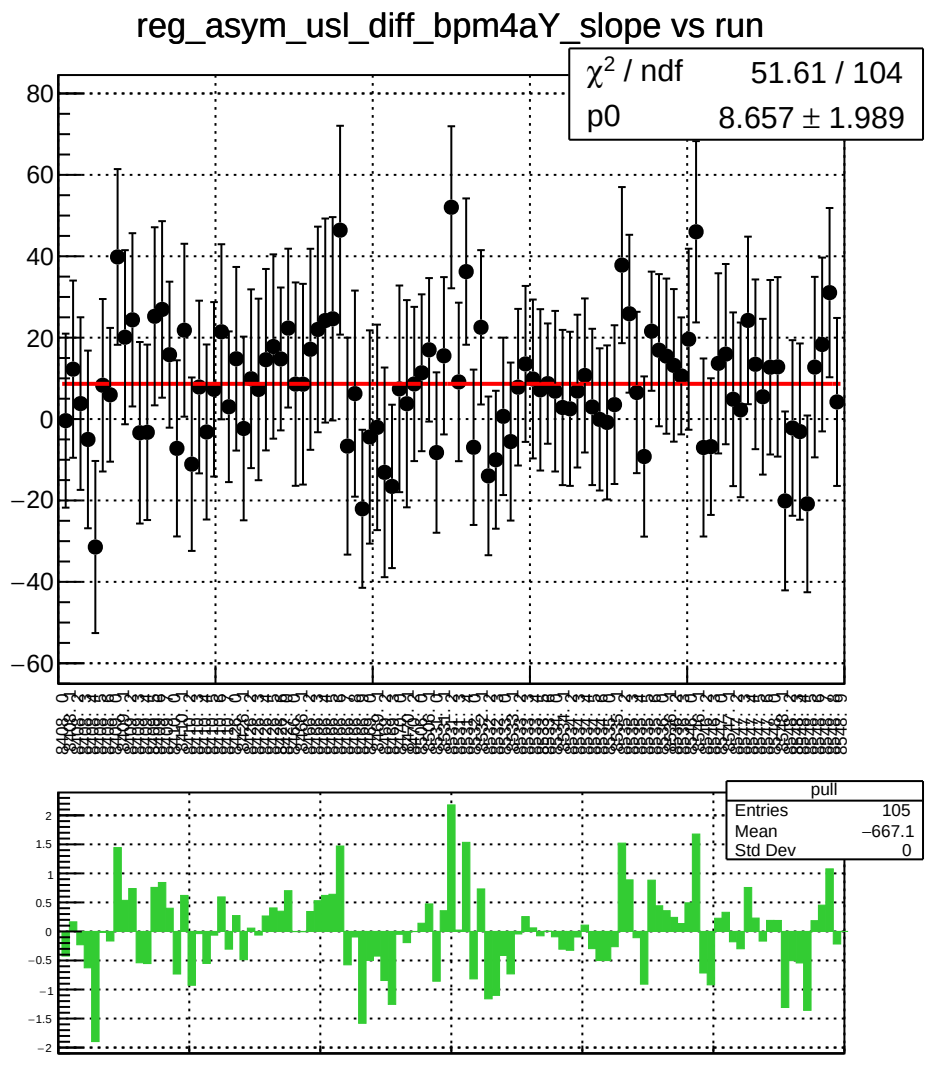

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 128.7 / 104
p0 8.981 ± 0.6145
pull
Entries 105
Mean −325.5
Std Dev 0
pull1D
Entries 105
Mean −0.06945
Std Dev 1.105

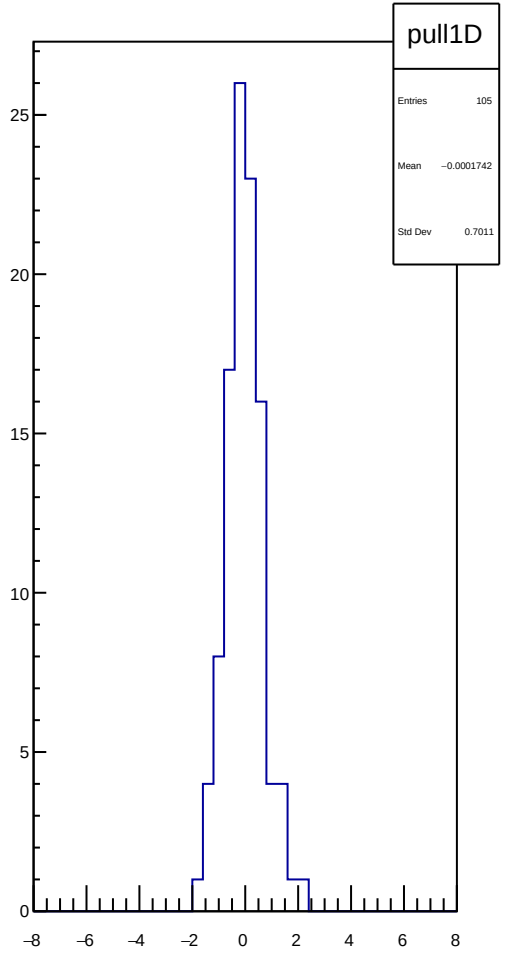

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 37.56 / 104
p0 0.7467 ± 0.03681
pull
Entries 105
Mean −2488
Std Dev 0

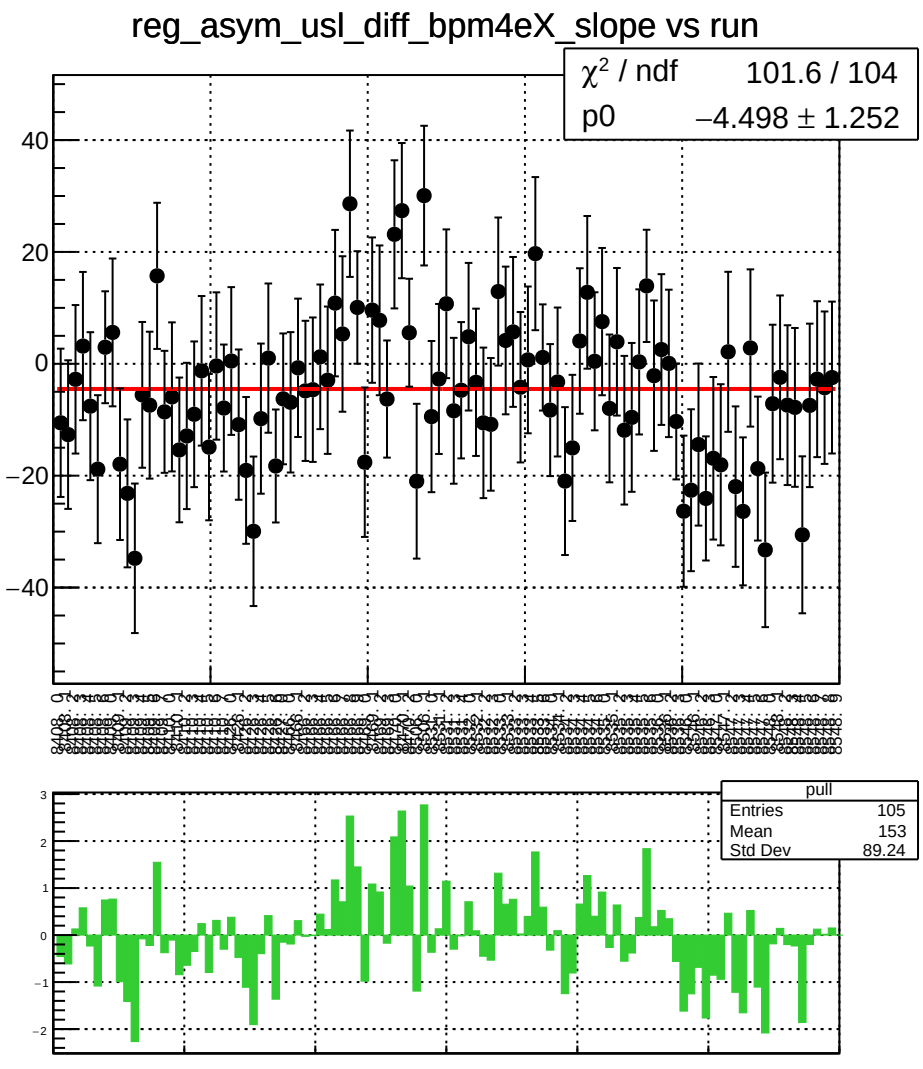

pull1D
Entries 105
Mean −0.001506
Std Dev 0.5981

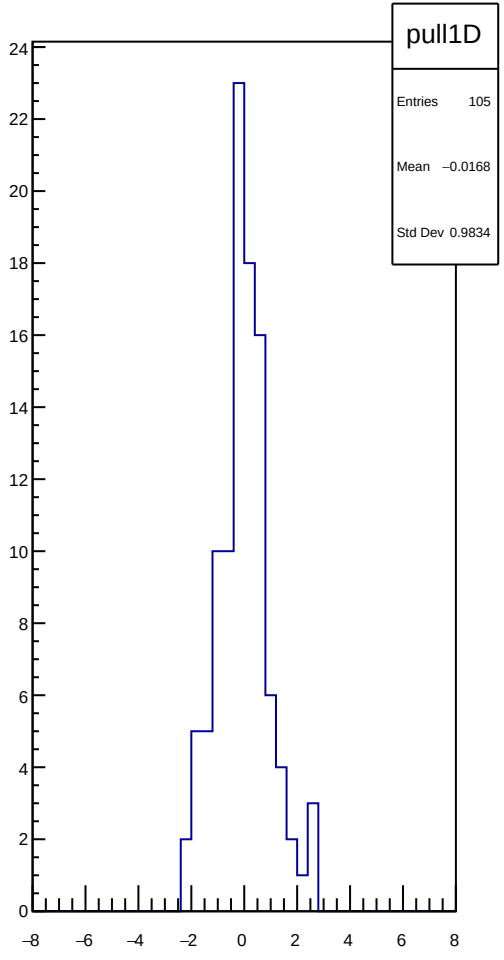

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 101.4 / 104
p0 −64.15 ± 1.14
−20
−40
−60
−80
−100
−120
pull
Entries 105
Mean −309.8
Std Dev 0
2
1
0
−1
−2
−3

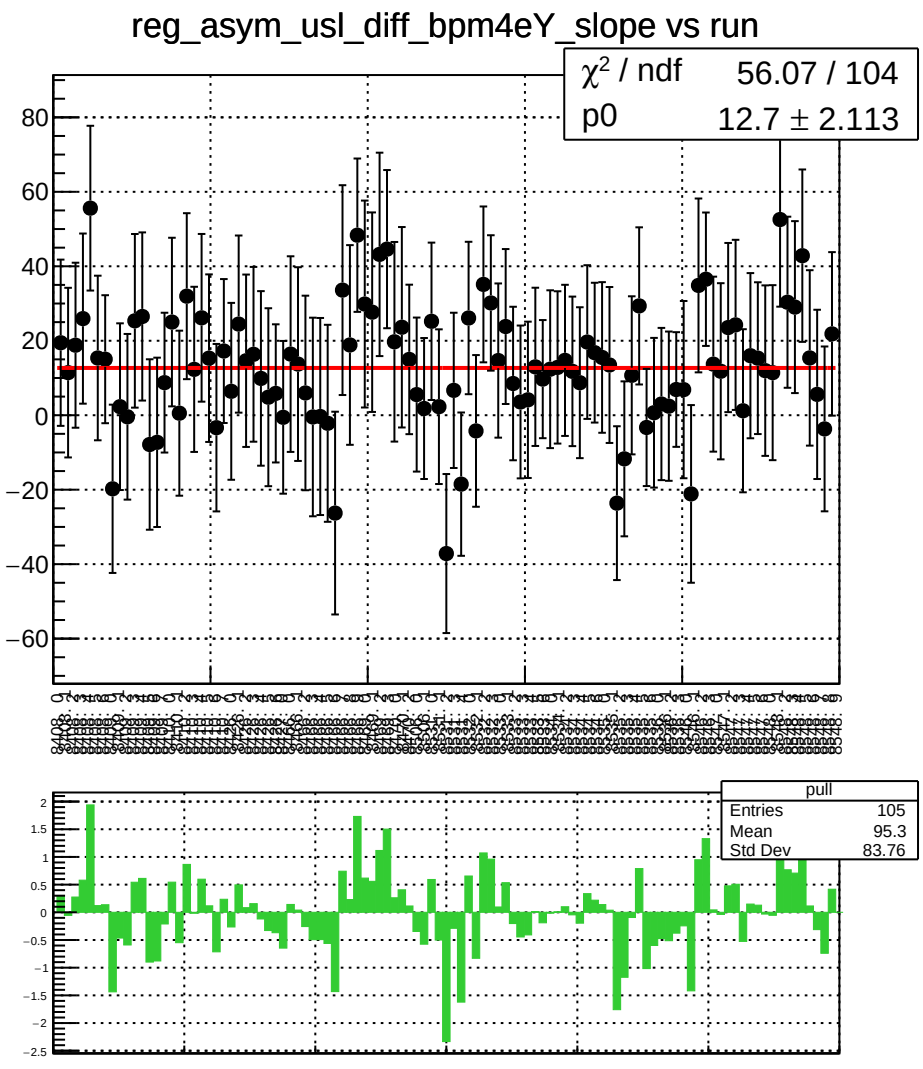

pull1D
Entries 105
Mean 0.01059
Std Dev 0.9827
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

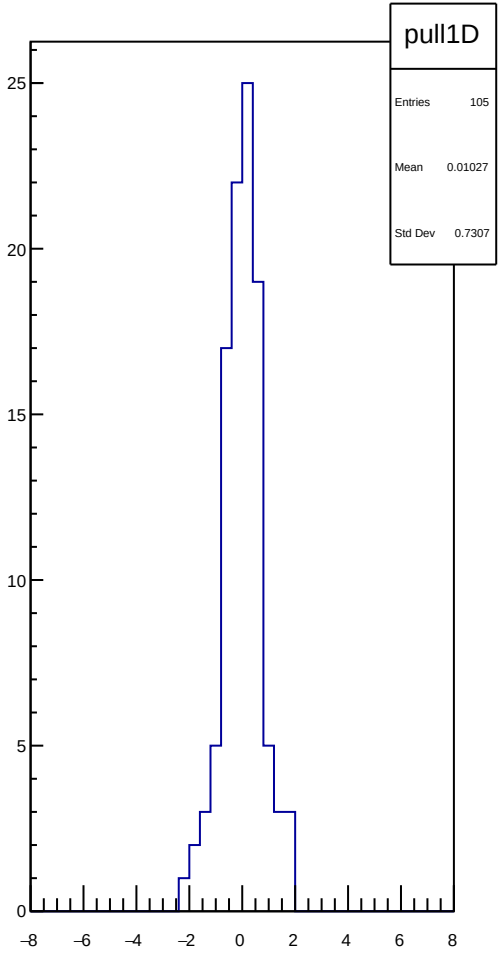

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 51.61 / 104
p0 8.657 ± 1.989
pull
Entries 105
Mean −667.1
Std Dev 0

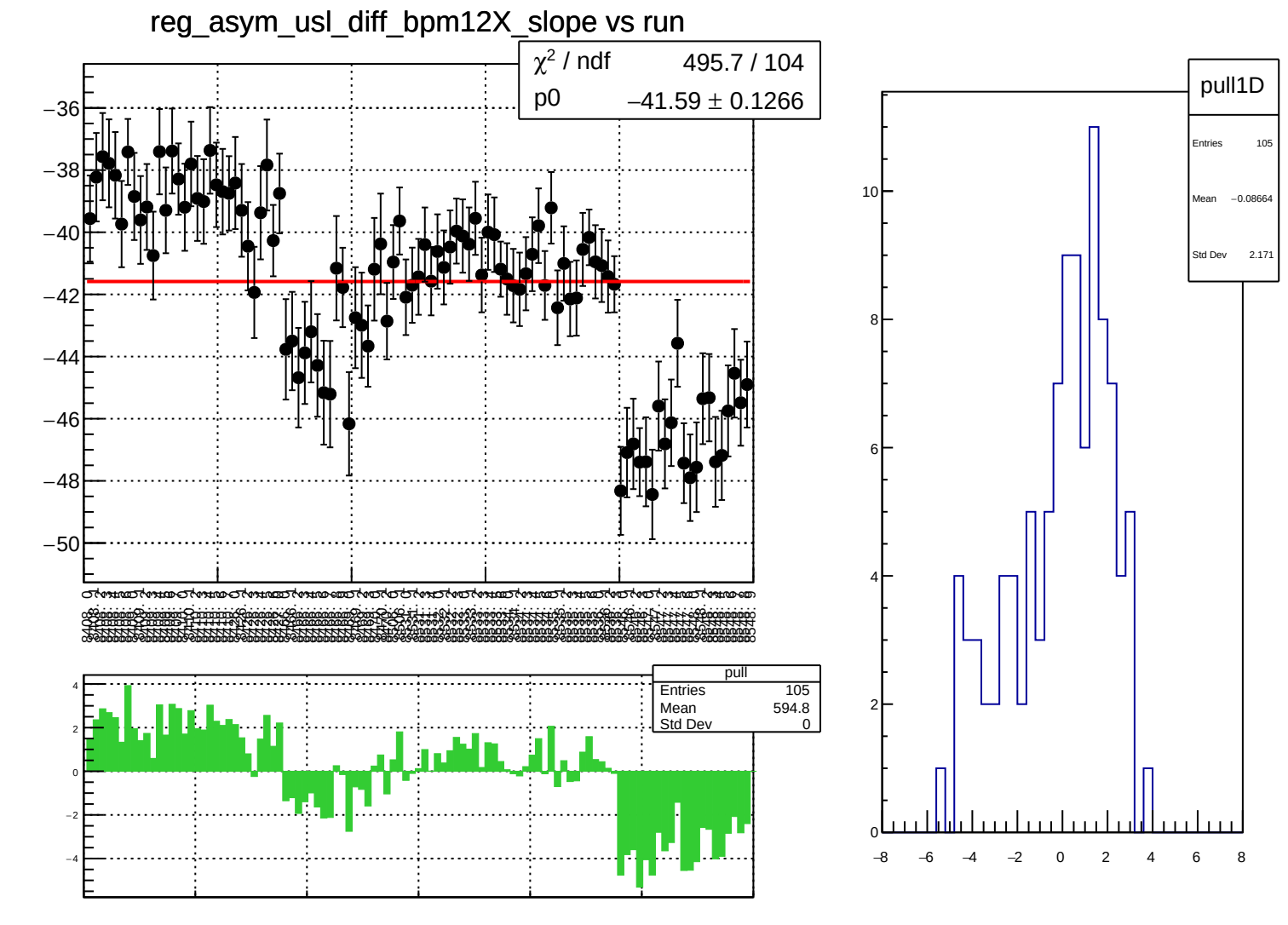

pull1D
Entries 105
Mean −0.0001742
Std Dev 0.7011

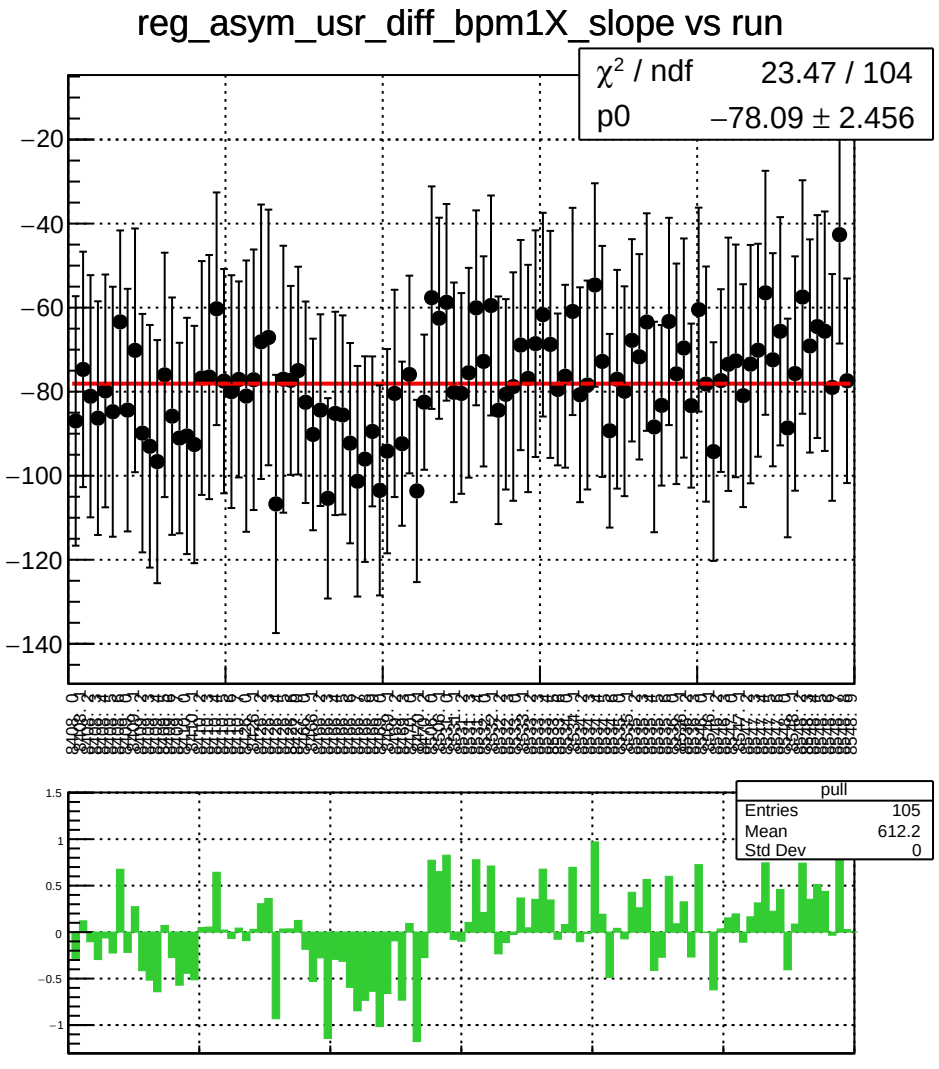

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 101.6 / 104
p0 −4.498 ± 1.252
40
20
0
−20
−40
pull
Entries 105
Mean 153
Std Dev 89.24
3
2
1
0
−1
−2

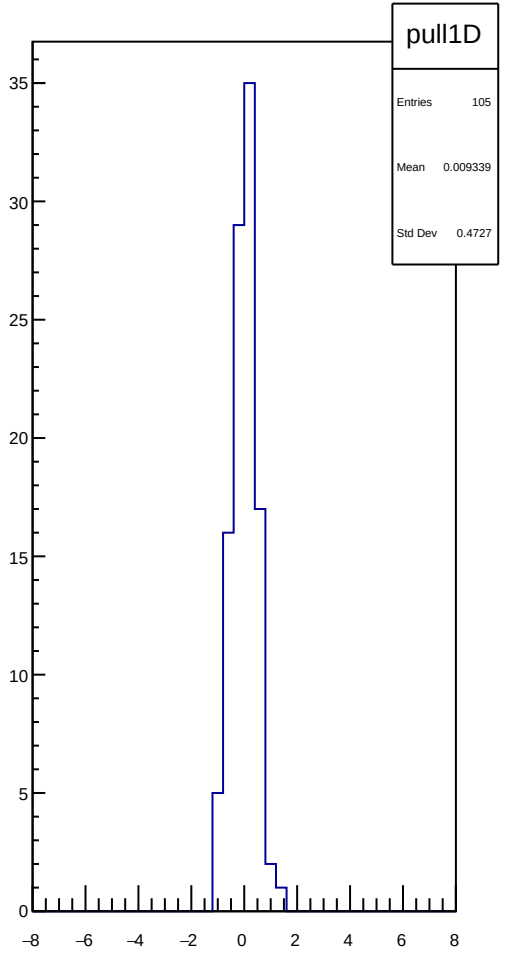

pull1D
Entries 105
Mean −0.0168
Std Dev 0.9834
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

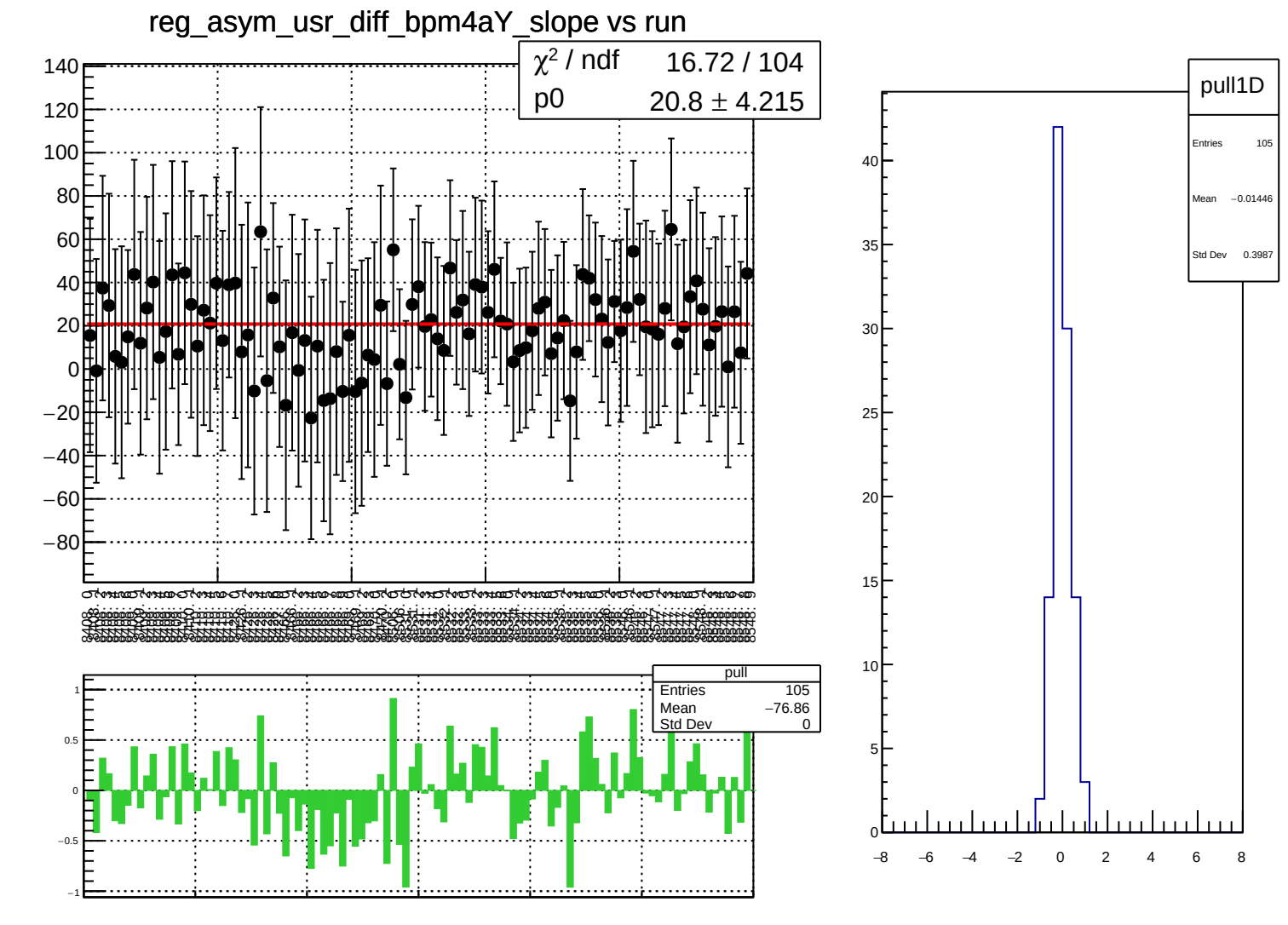

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 56.07 / 104
p0 12.7 ± 2.113
pull
Entries 105
Mean 95.3
Std Dev 83.76

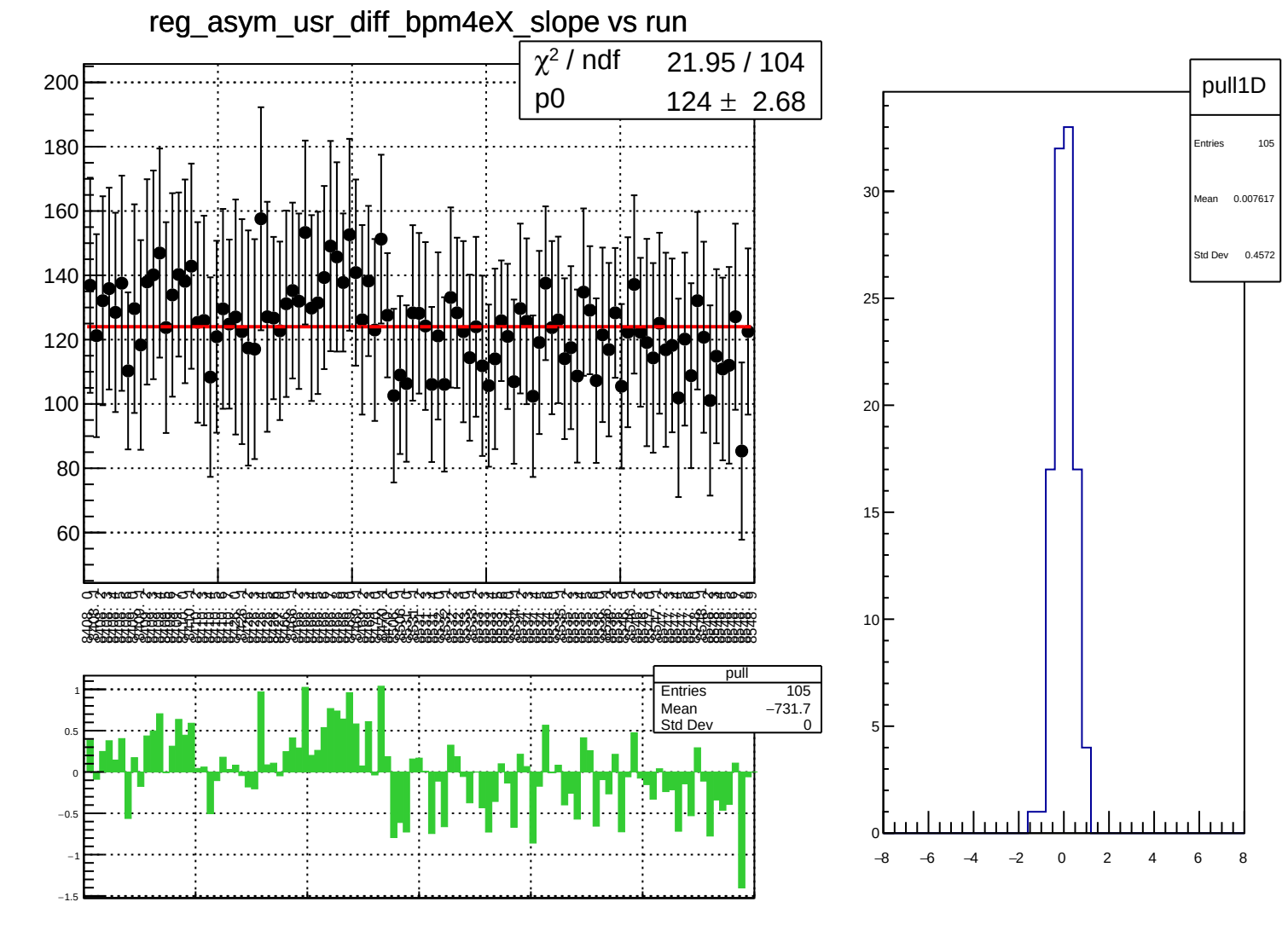

pull1D
Entries 105
Mean 0.01027
Std Dev 0.7307

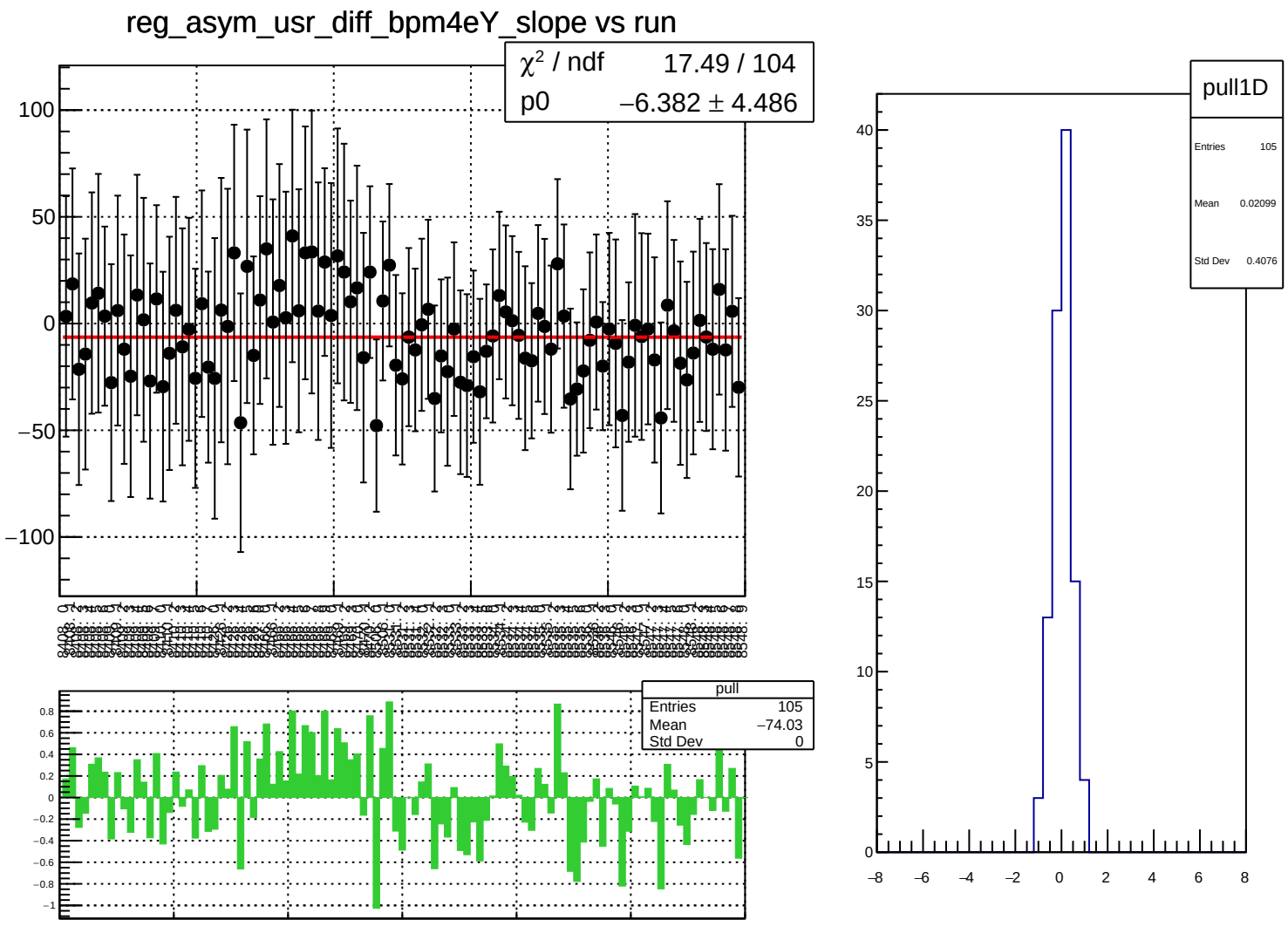

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 495.7 / 104
p0 −41.59 ± 0.1266
−36
−38
−40
−42
−44
−46
−48
−50
pull
Entries 105
Mean 594.8
Std Dev 0
4
2
0
−2
−4
pull1D
Entries 105
Mean −0.08664
Std Dev 2.171
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

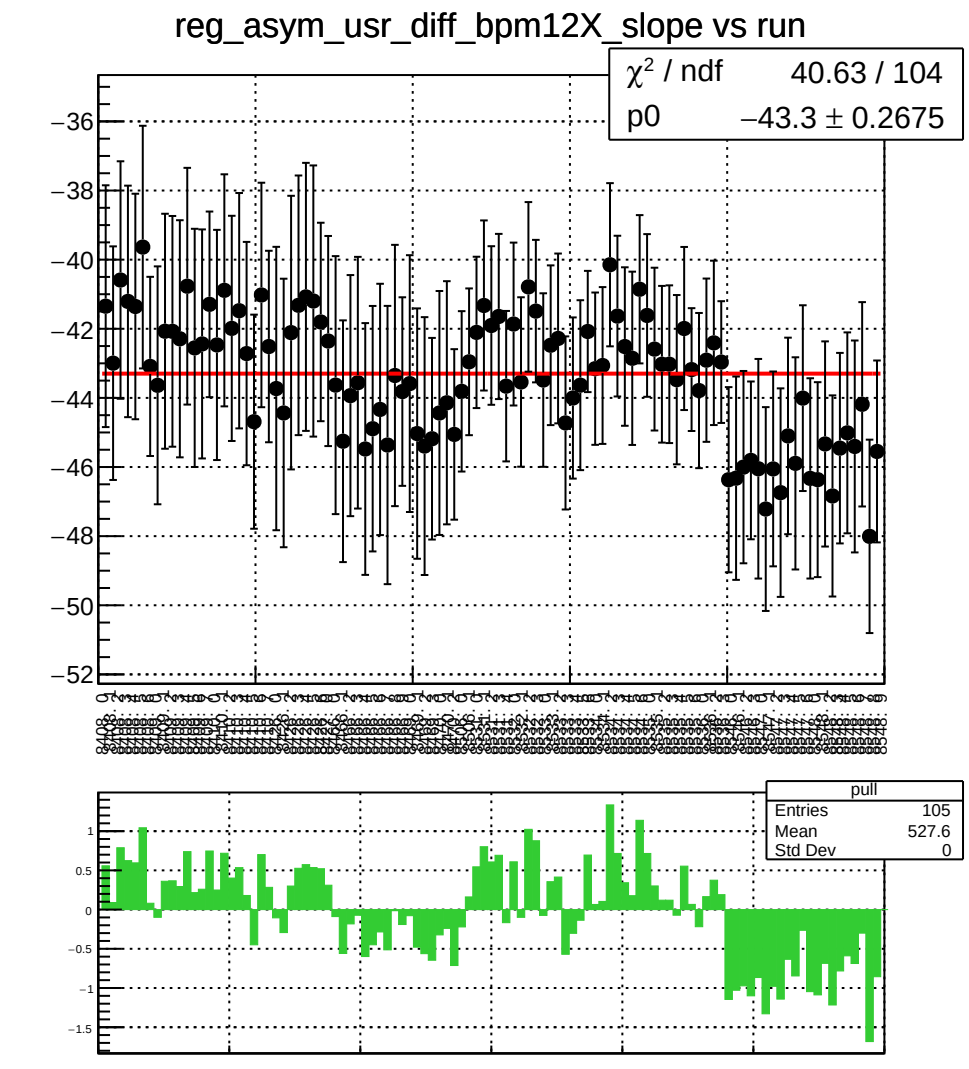

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 23.47 / 104
p0 −78.09 ± 2.456
−20
−40
−60
−80
−100
−120
−140
pull
Entries 105
Mean 612.2
Std Dev 0
1.5
1
0.5
0
−0.5
−1

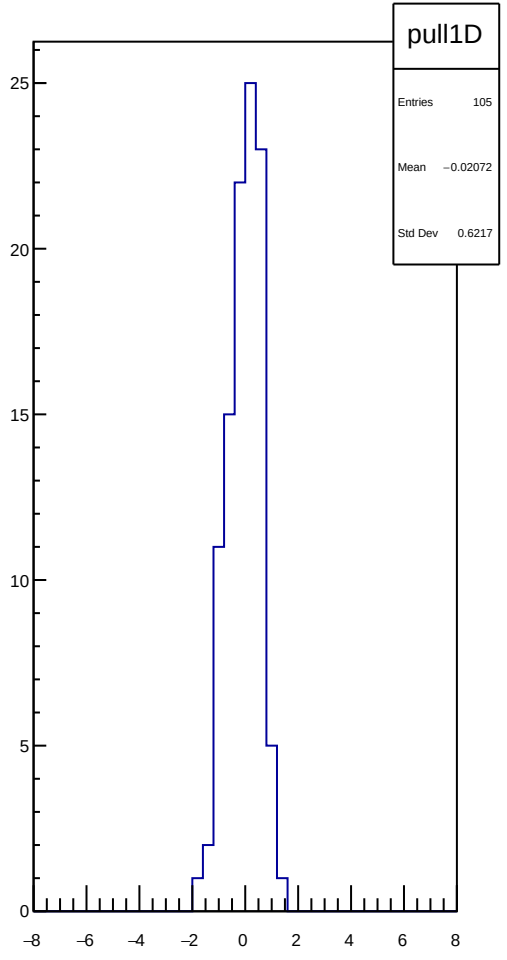

pull1D
Entries 105
Mean 0.009339
Std Dev 0.4727
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

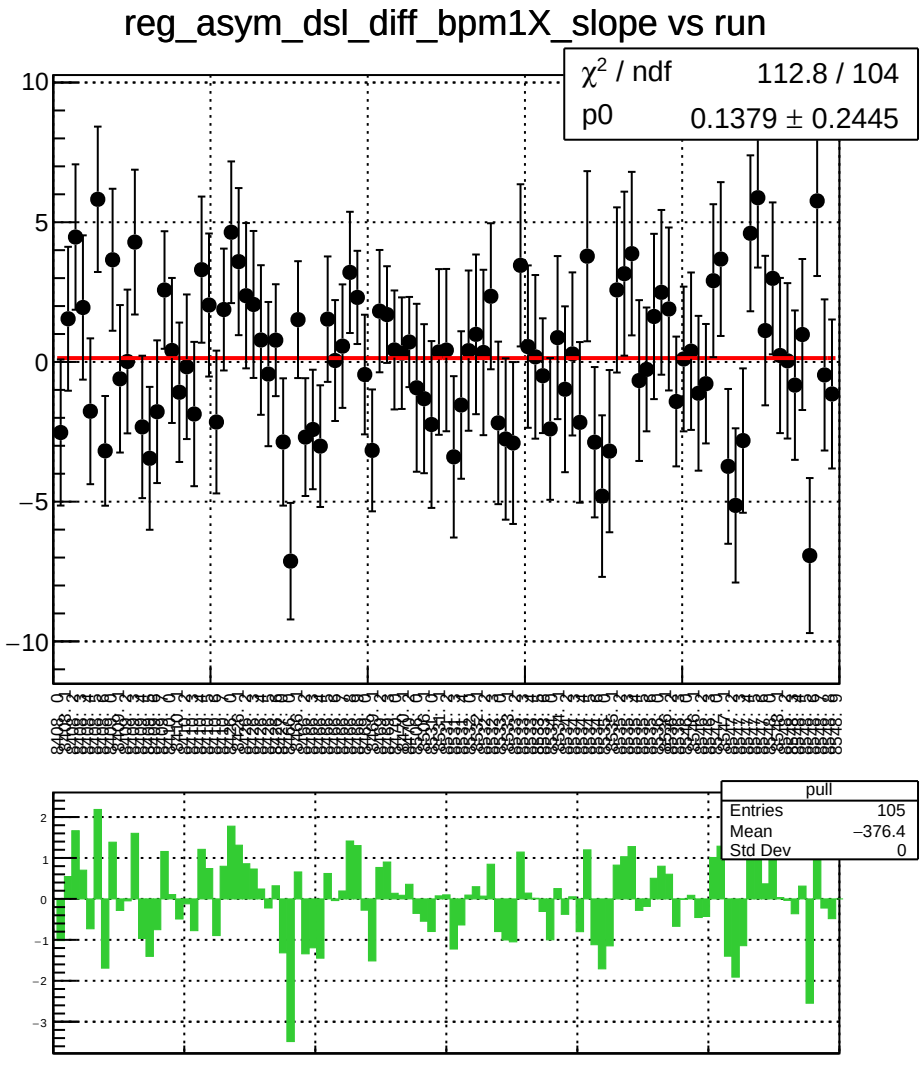

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 16.72 / 104
p0 20.8 ± 4.215
pull
Entries 105
Mean −76.86
Std Dev 0
pull1D
Entries 105
Mean −0.01446
Std Dev 0.3987

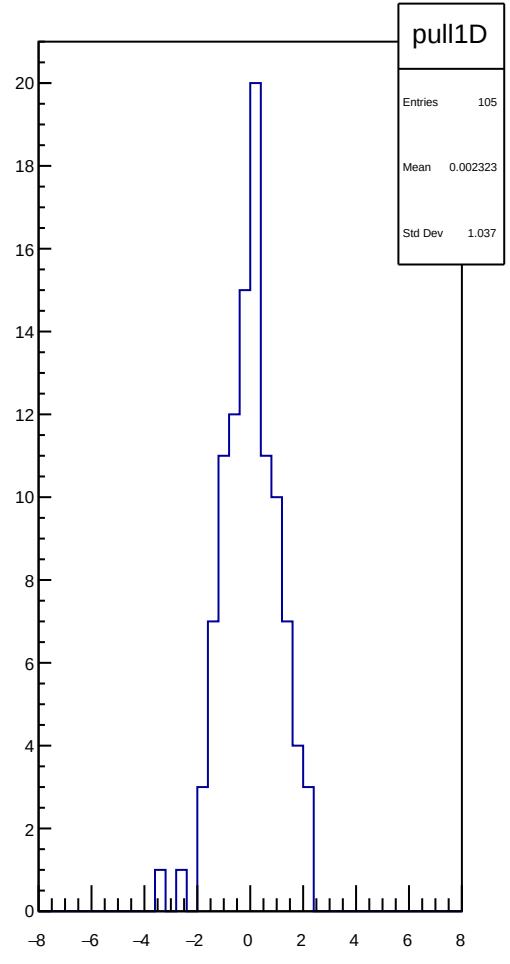

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 21.95 / 104
p0 124 ± 2.68
200
180
160
140
120
100
80
60
pull
Entries 105
Mean −731.7
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 105
Mean 0.007617
Std Dev 0.4572
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

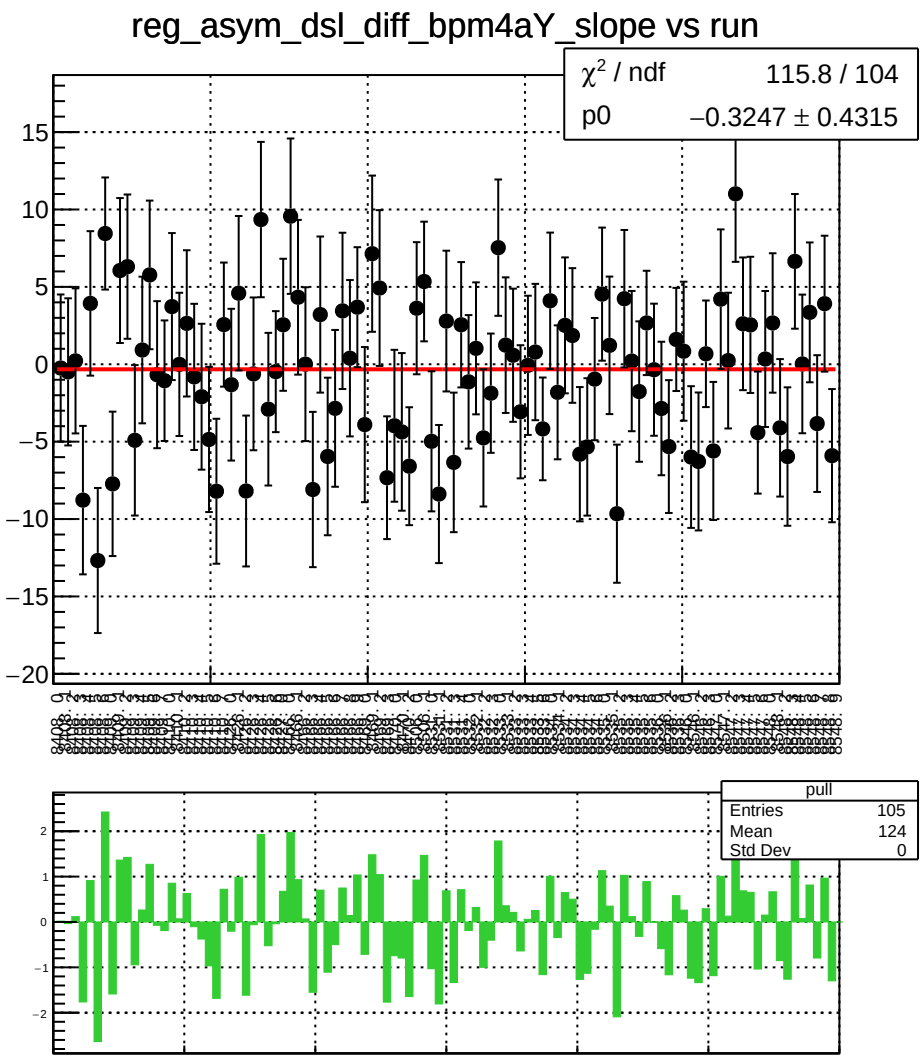

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 17.49 / 104
p0 −6.382 ± 4.486
100
50
0
−50
−100
pull
Entries 105
Mean −74.03
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 105
Mean 0.02099
Std Dev 0.4076
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

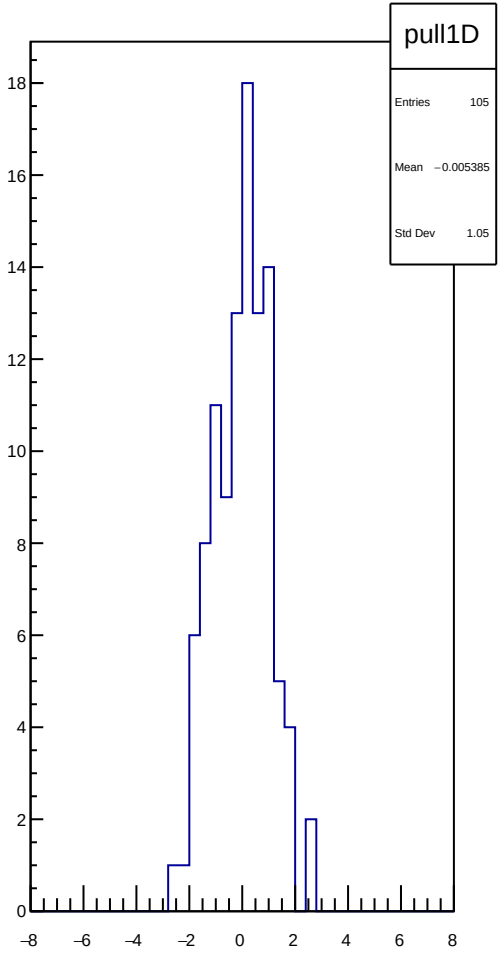

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 40.63 / 104
p0 −43.3 ± 0.2675
−36
−38
−40
−42
−44
−46
−48
−50
−52
pull
Entries 105
Mean 527.6
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

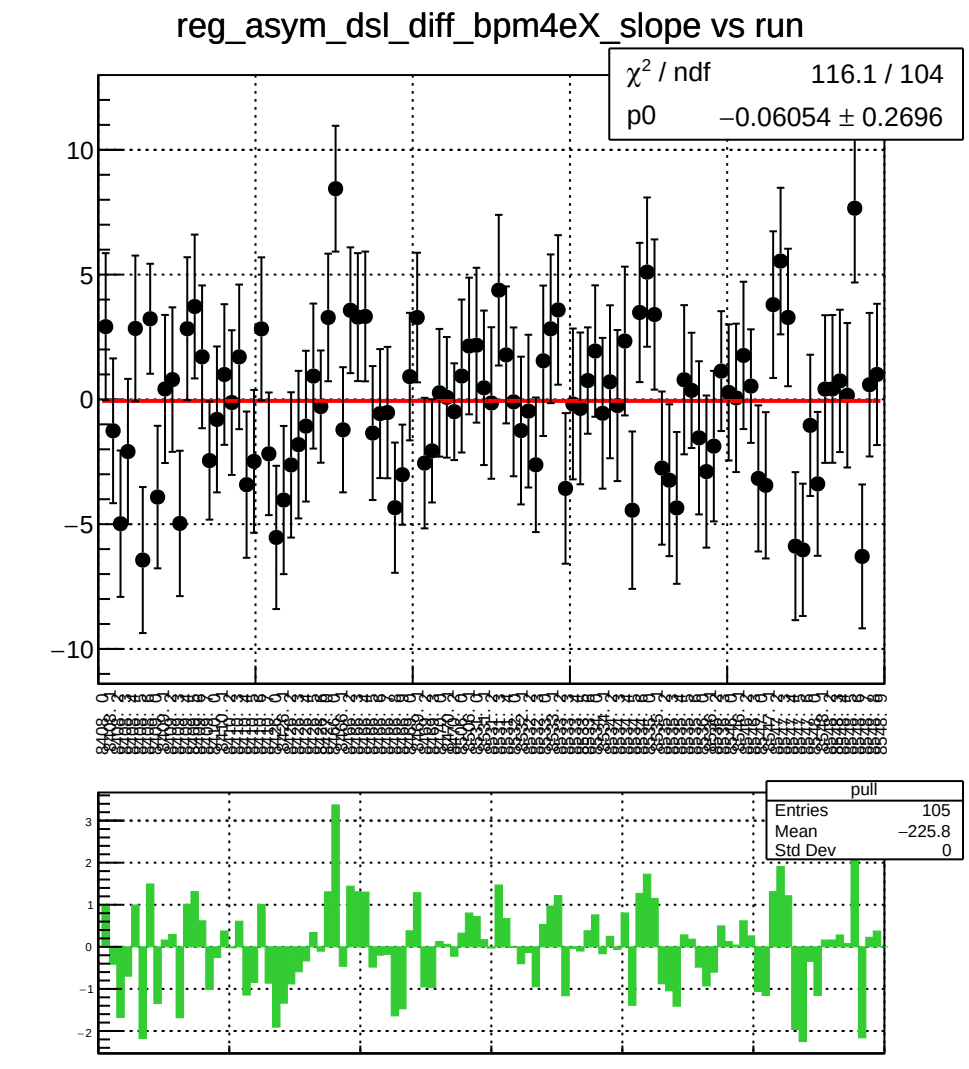

pull1D
Entries 105
Mean −0.02072
Std Dev 0.6217
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

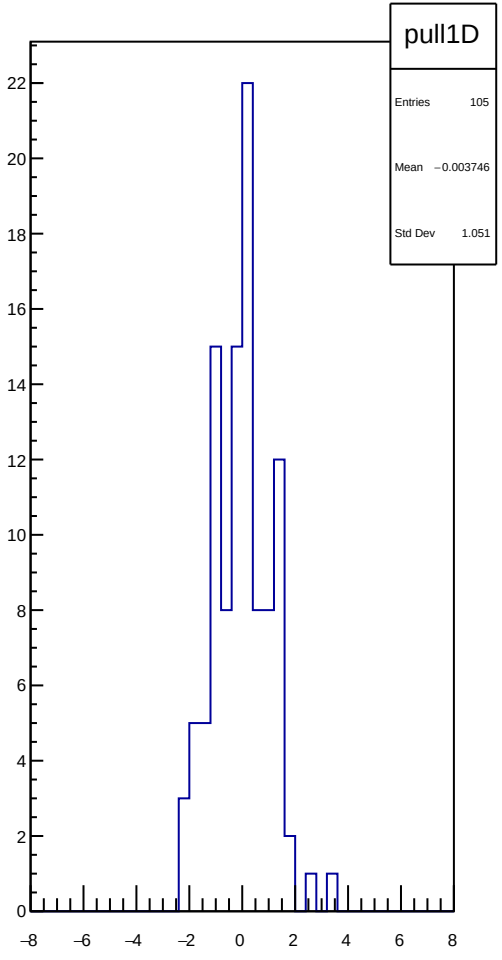

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 112.8 / 104
p0 0.1379 ± 0.2445
pull
Entries 105
Mean −376.4
Std Dev 0

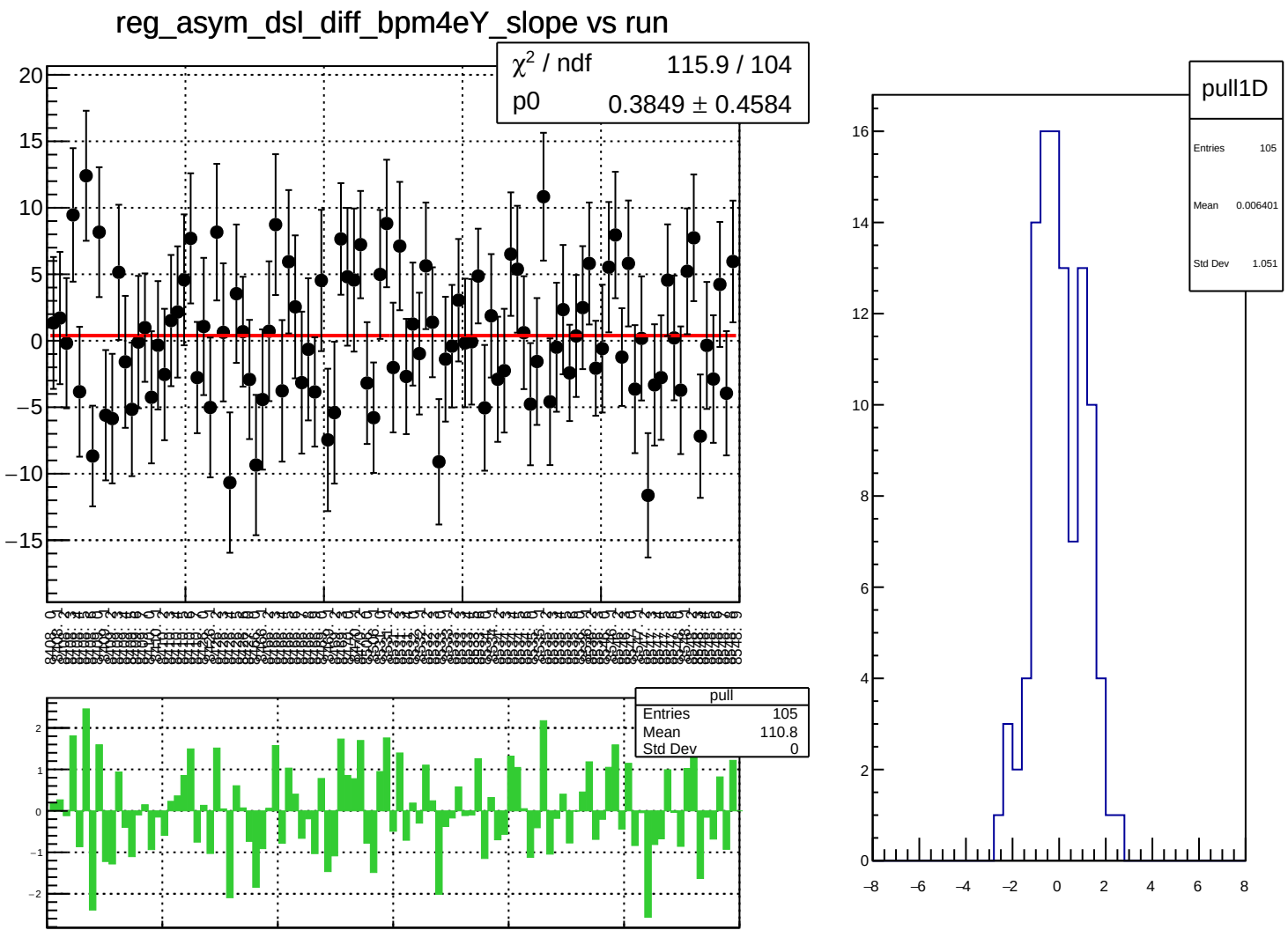

pull1D
Entries 105
Mean 0.002323
Std Dev 1.037

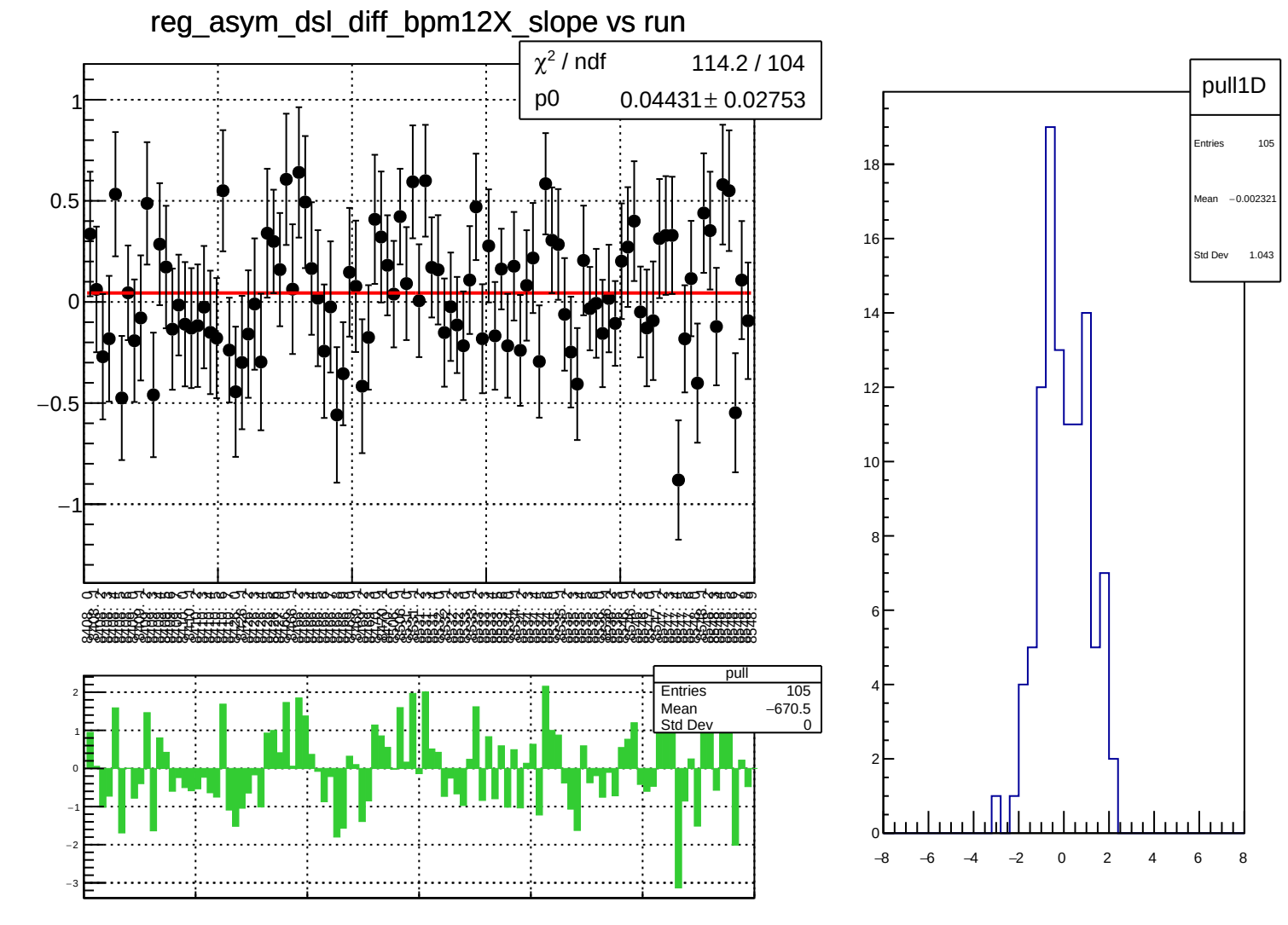

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 115.8 / 104
p0 −0.3247 ± 0.4315
pull
Entries 105
Mean 124
Std Dev 0

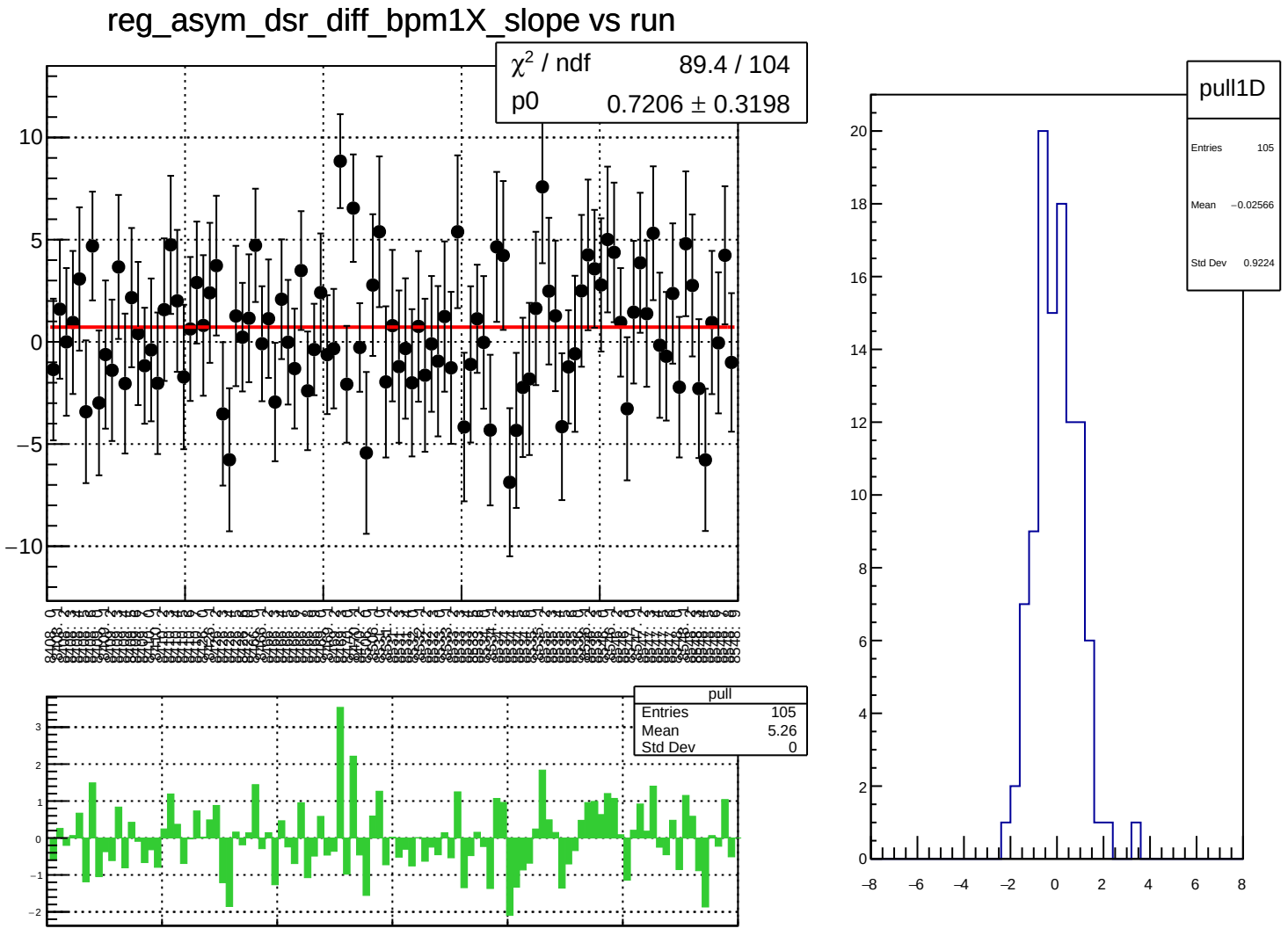

pull1D
Entries 105
Mean −0.005385
Std Dev 1.05

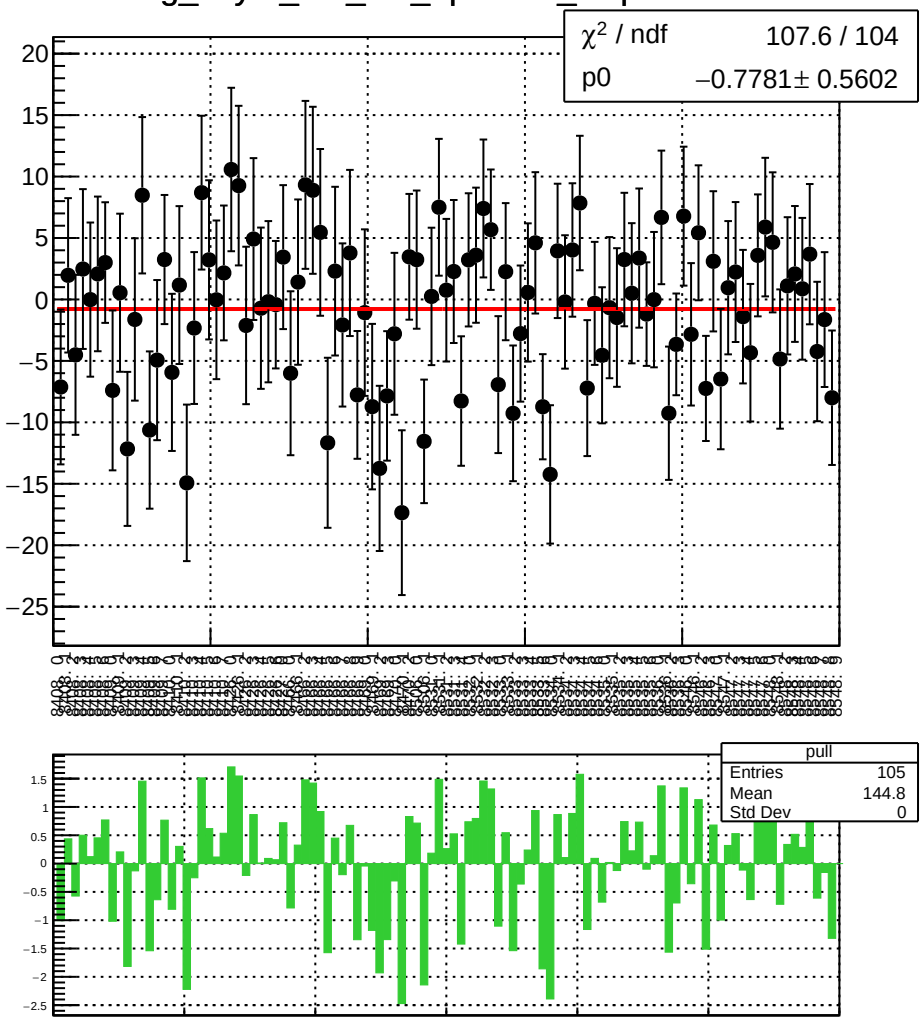

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 116.1 / 104
p0 −0.06054 ± 0.2696
pull
Entries 105
Mean −225.8
Std Dev 0

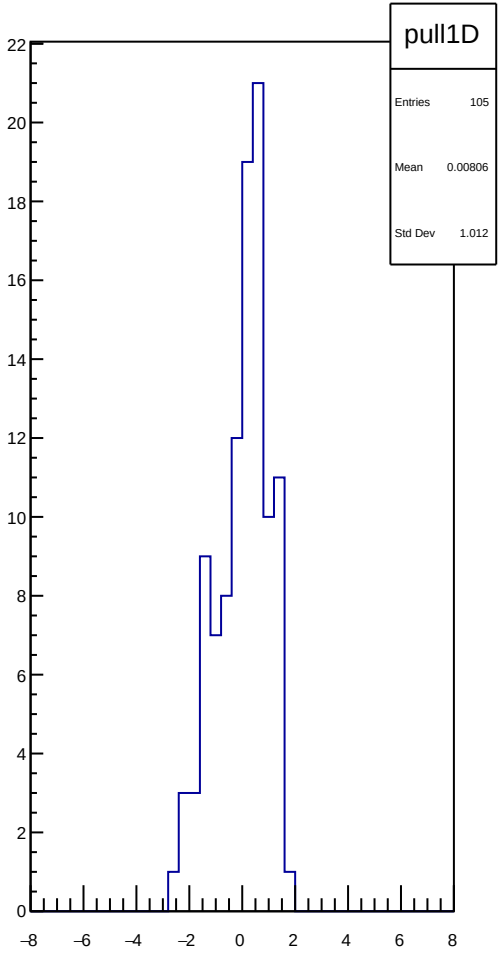

pull1D
Entries 105
Mean −0.003746
Std Dev 1.051

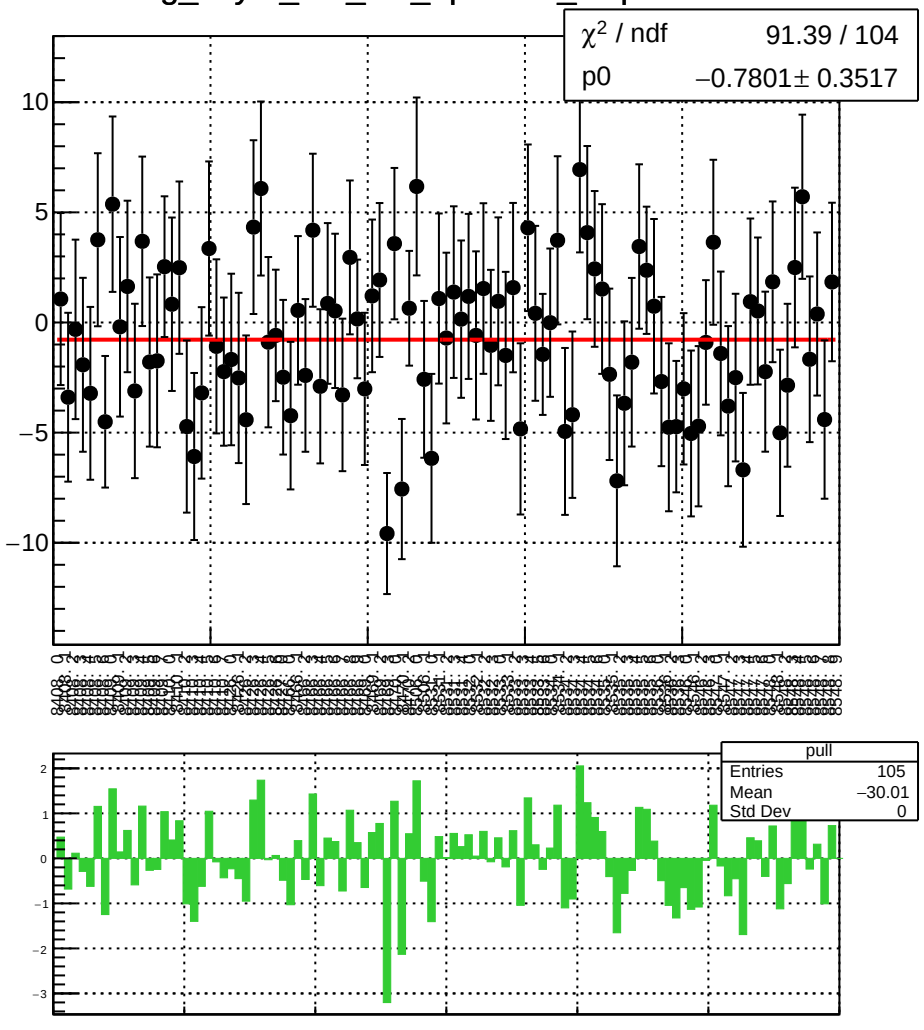

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 115.9 / 104
p0 0.3849 ± 0.4584
pull
Entries 105
Mean 110.8
Std Dev 0
pull1D
Entries 105
Mean 0.006401
Std Dev 1.051

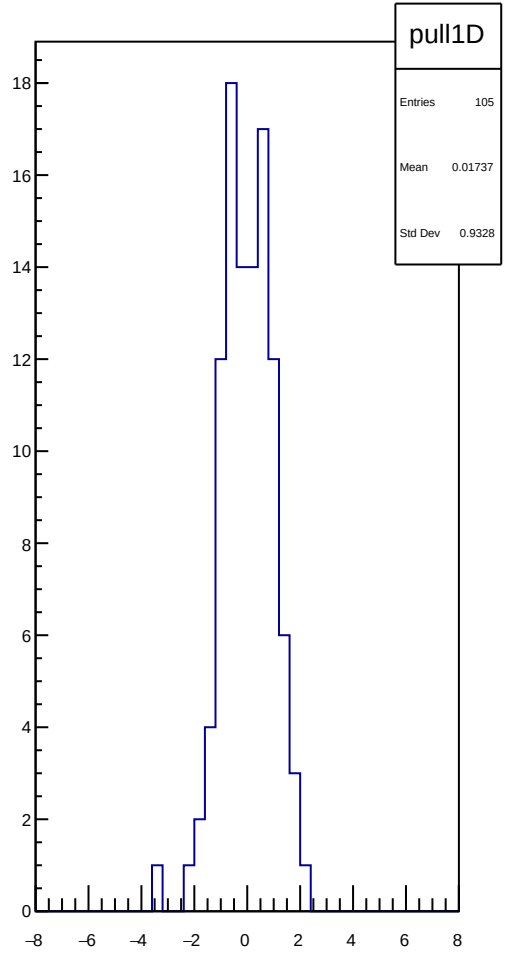

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 114.2 / 104
p0 0.04431 ± 0.02753
pull
Entries 105
Mean −670.5
Std Dev 0
pull1D
Entries 105
Mean −0.002321
Std Dev 1.043

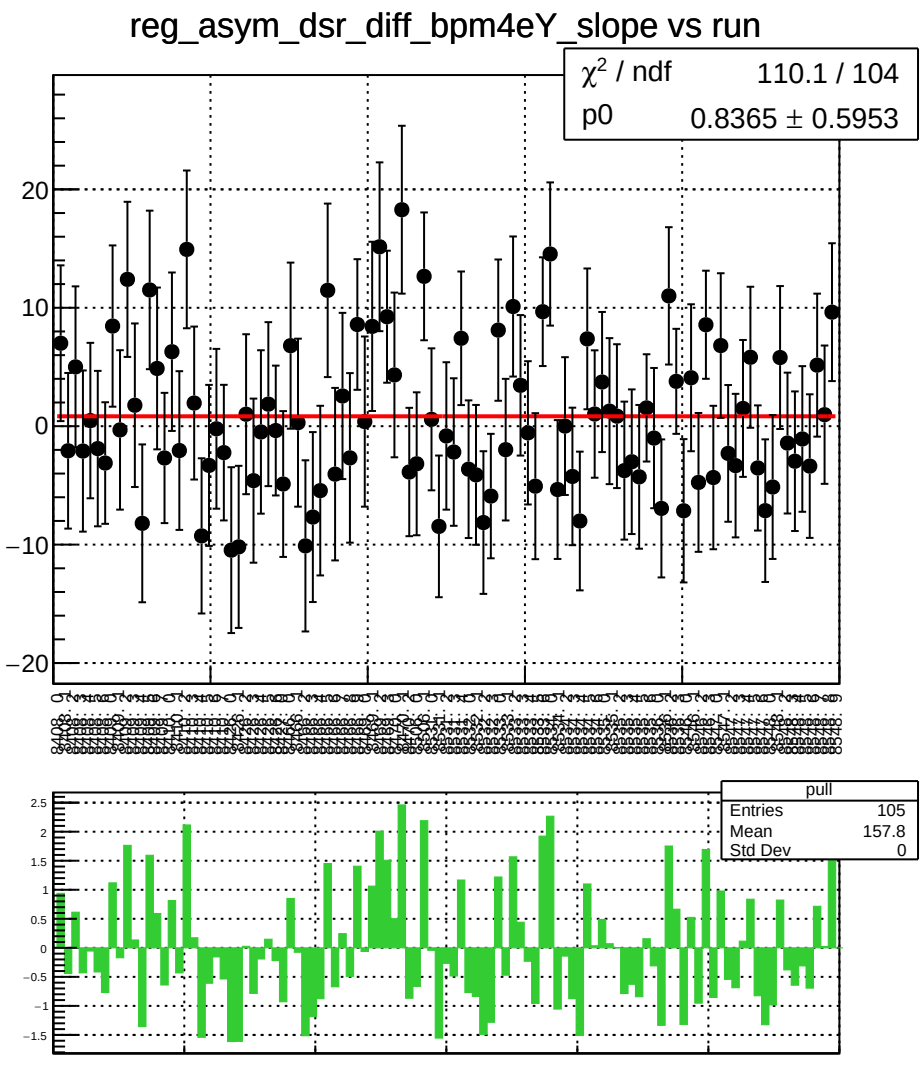

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 89.4 / 104
p0 0.7206 ± 0.3198
10
5
0
−5
−10
pull
Entries 105
Mean 5.26
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.02566
Std Dev 0.9224
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

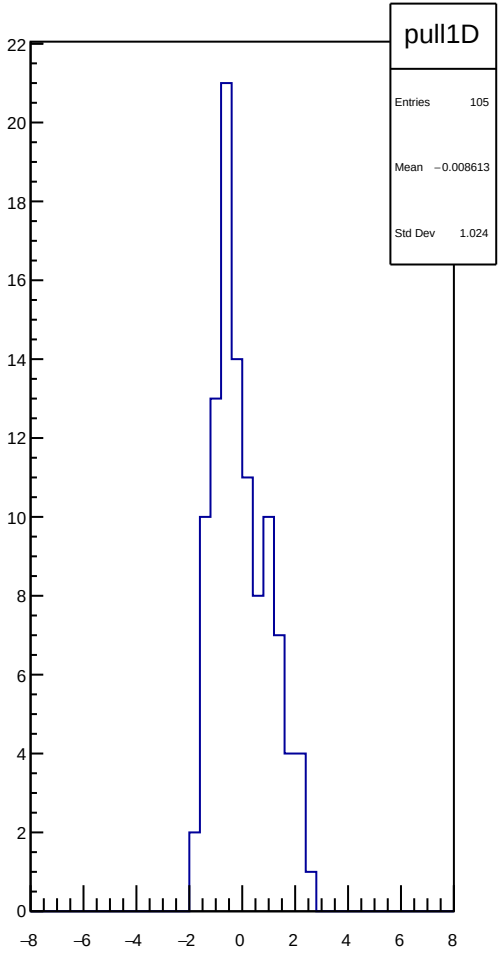

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 107.6 / 104
p0 −0.7781 ± 0.5602
pull
Entries 105
Mean 144.8
Std Dev 0

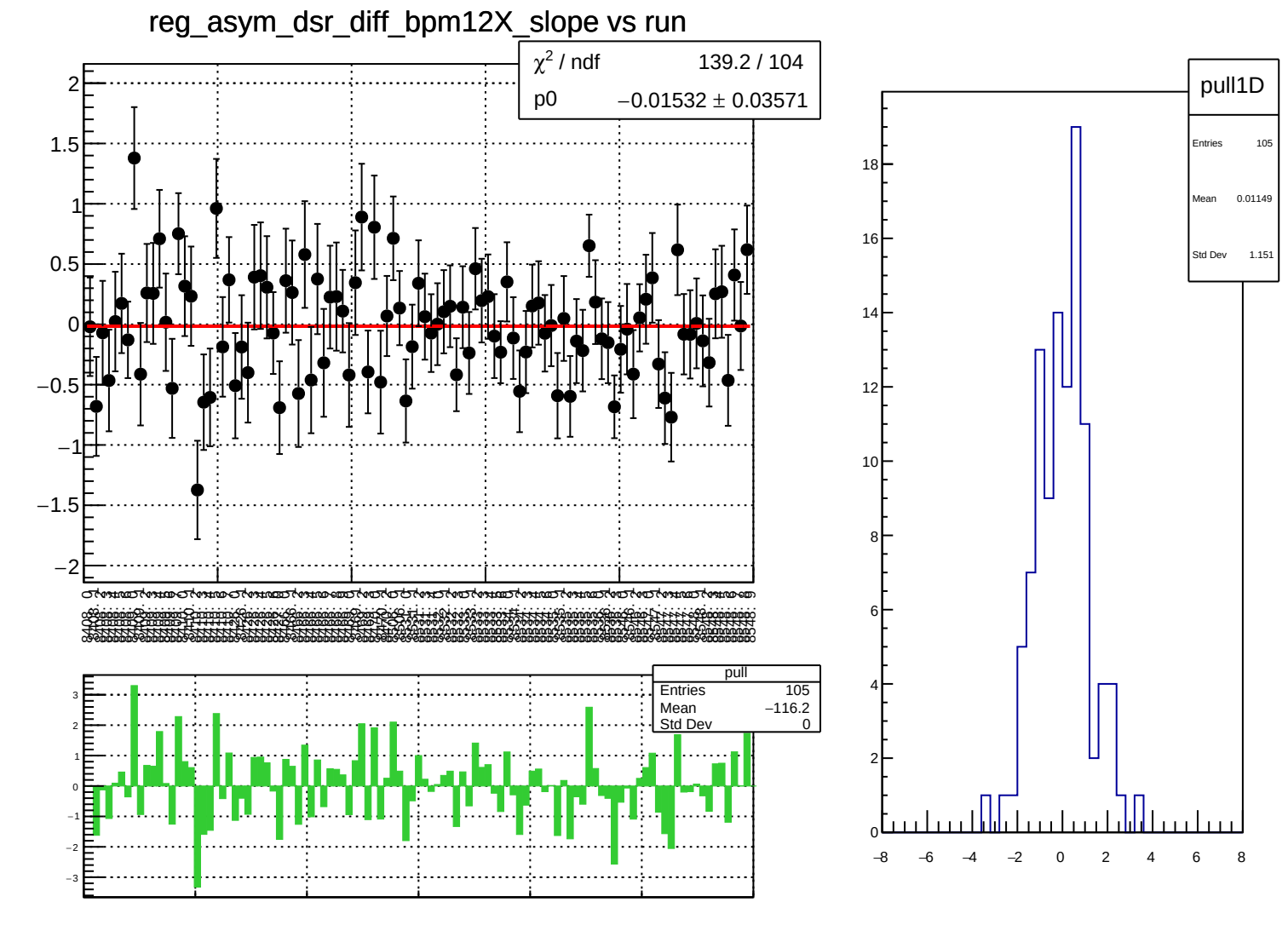

pull1D
Entries 105
Mean 0.00806
Std Dev 1.012

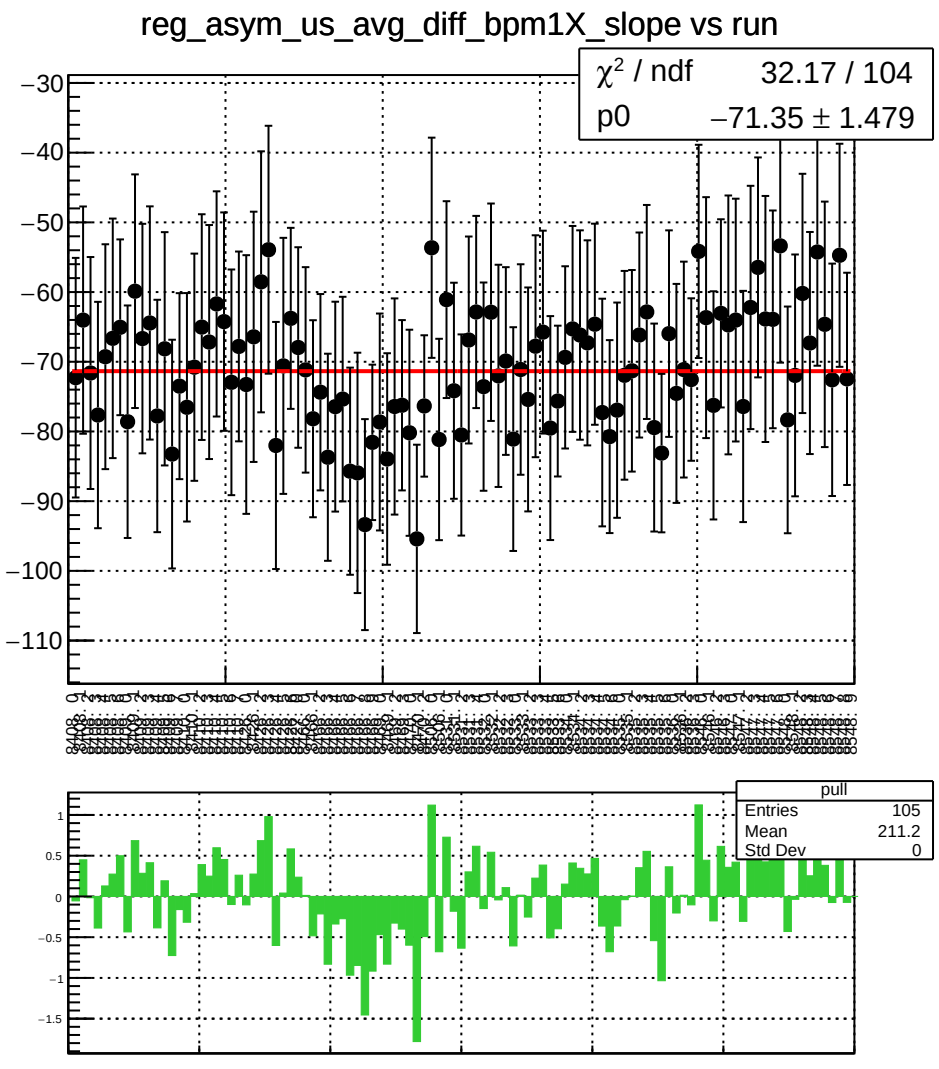

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 91.39 / 104
p0 −0.7801± 0.3517
10
5
0
−5
−10
pull
Entries 105
Mean −30.01
Std Dev 0
2
1
0
−1
−2
−3

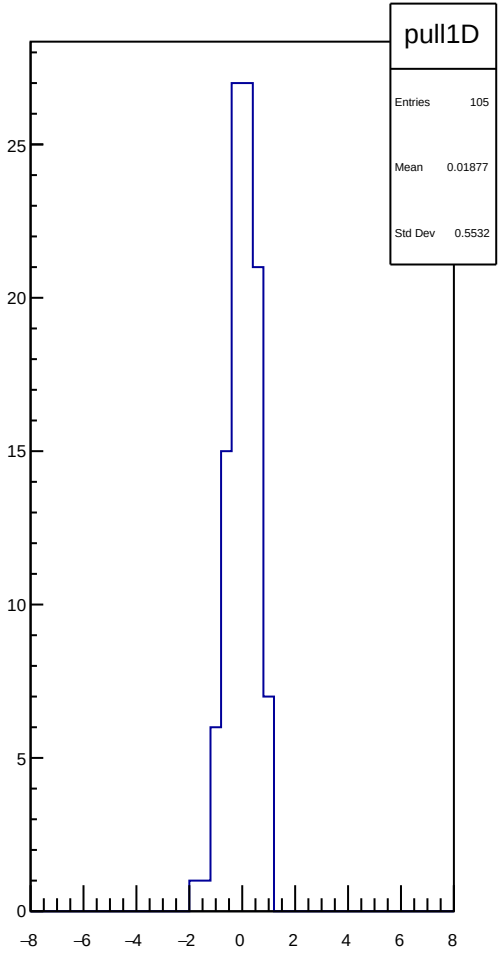

pull1D
Entries 105
Mean 0.01737
Std Dev 0.9328
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

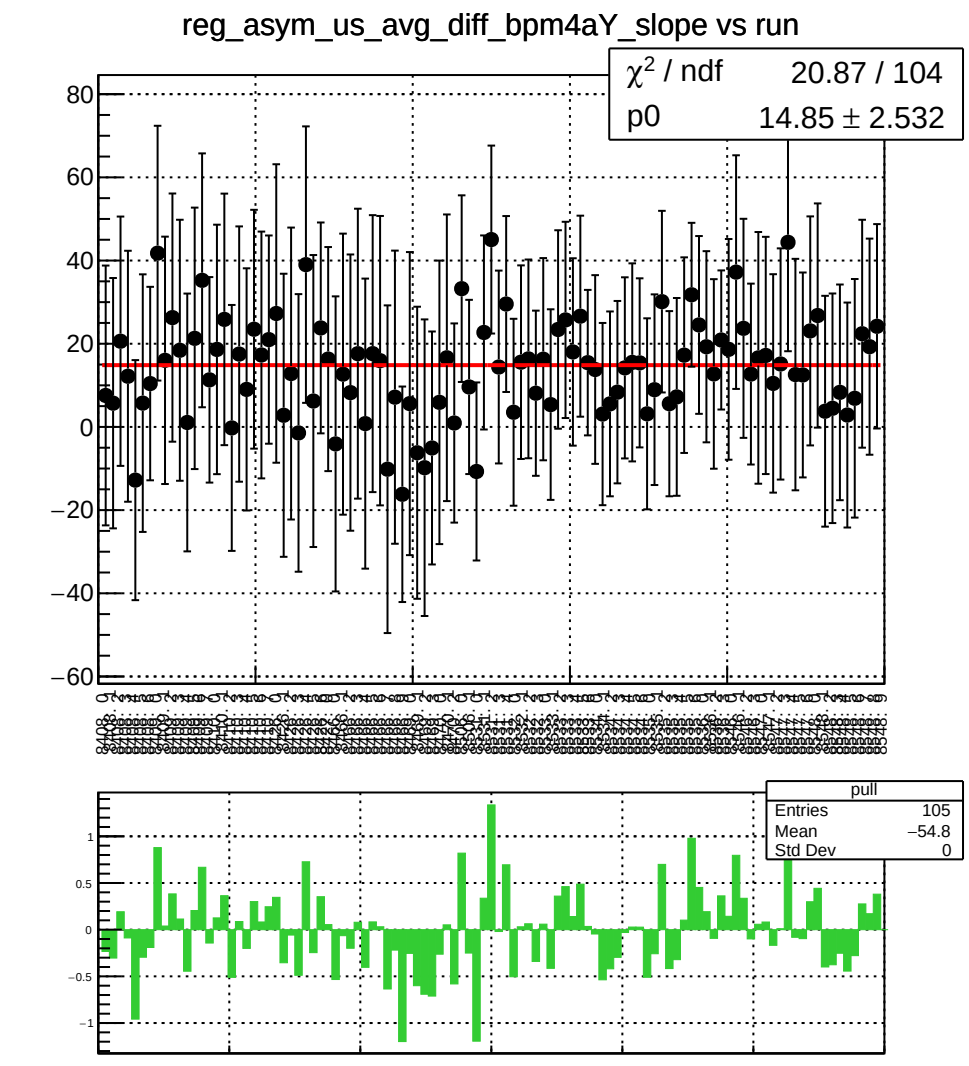

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 110.1 / 104
p0 0.8365 ± 0.5953
pull
Entries 105
Mean 157.8
Std Dev 0

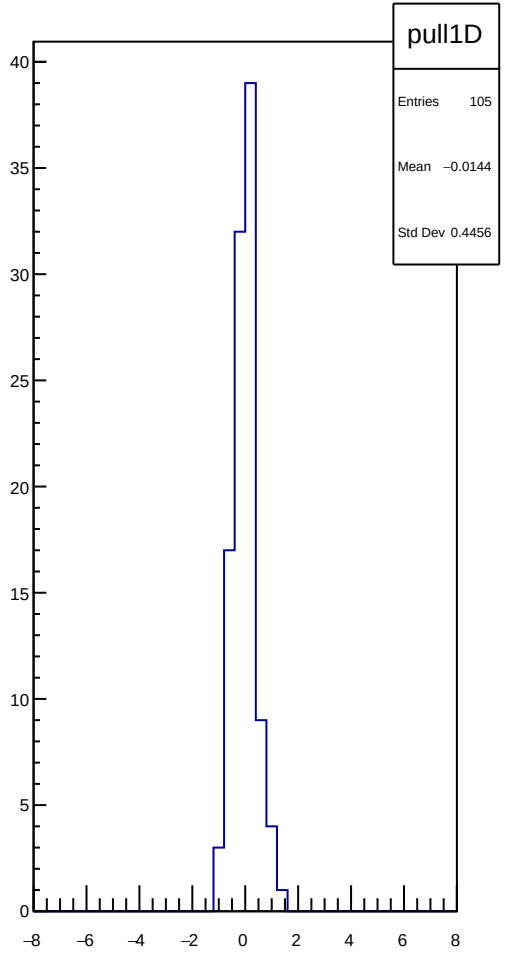

pull1D
Entries 105
Mean −0.008613
Std Dev 1.024

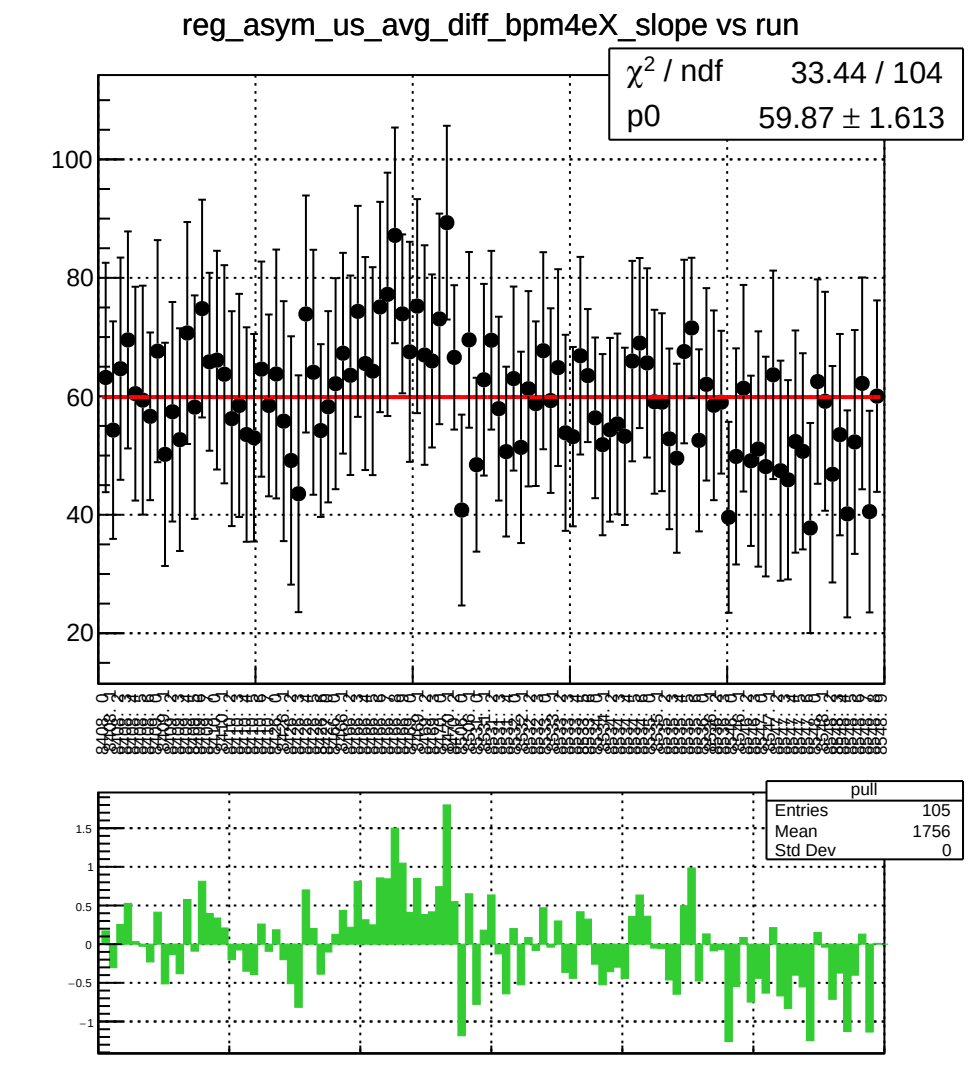

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 139.2 / 104
p0 −0.01532 ± 0.03571
pull
Entries 105
Mean −116.2
Std Dev 0
pull1D
Entries 105
Mean 0.01149
Std Dev 1.151

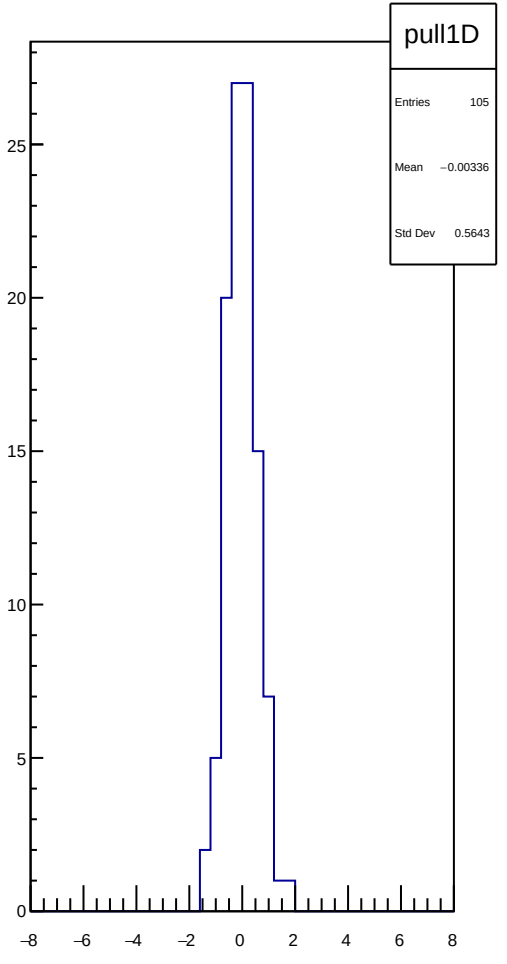

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 32.17 / 104
p0 −71.35 ± 1.479
pull
Entries 105
Mean 211.2
Std Dev 0

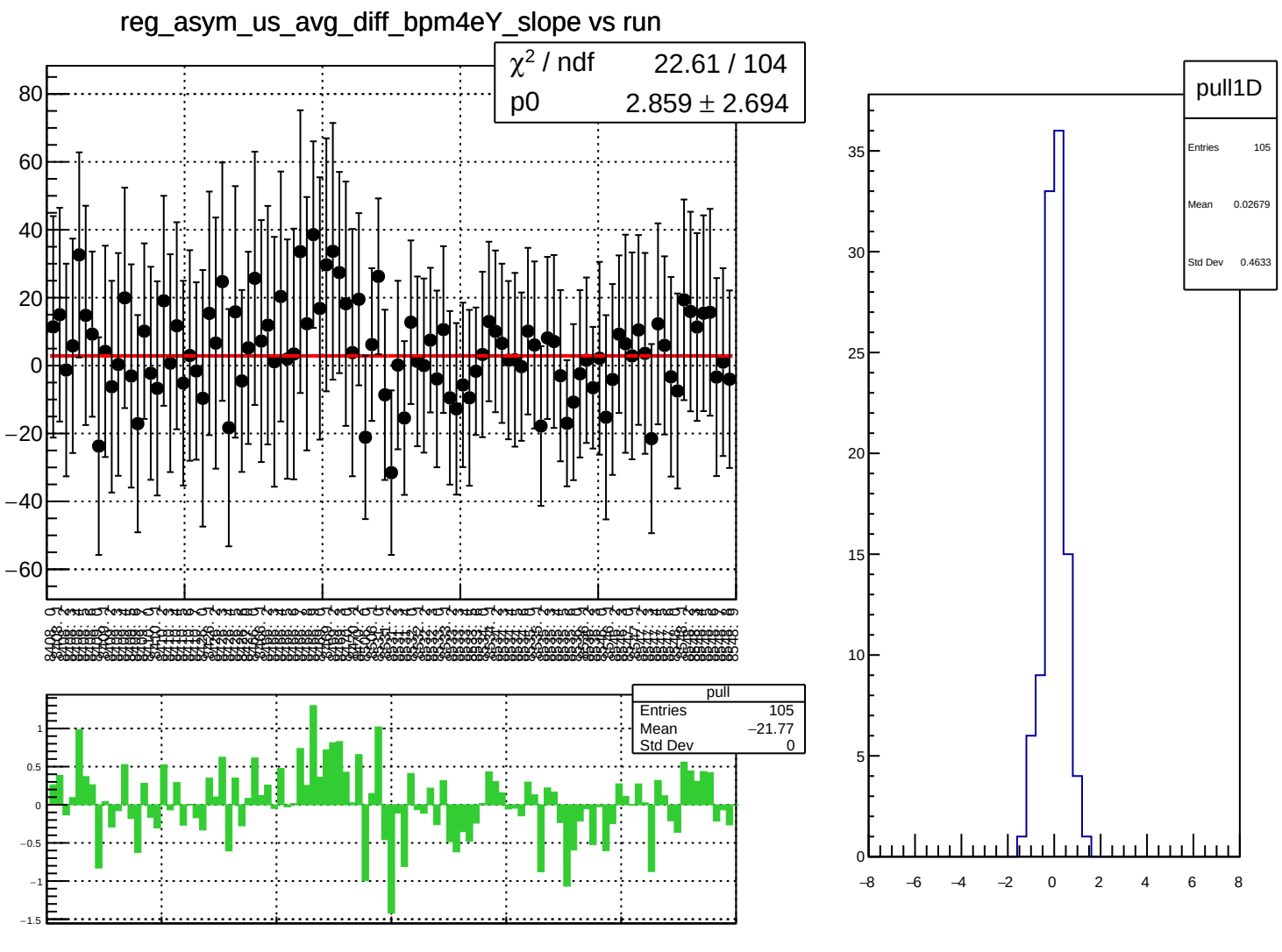

pull1D
Entries 105
Mean 0.01877
Std Dev 0.5532

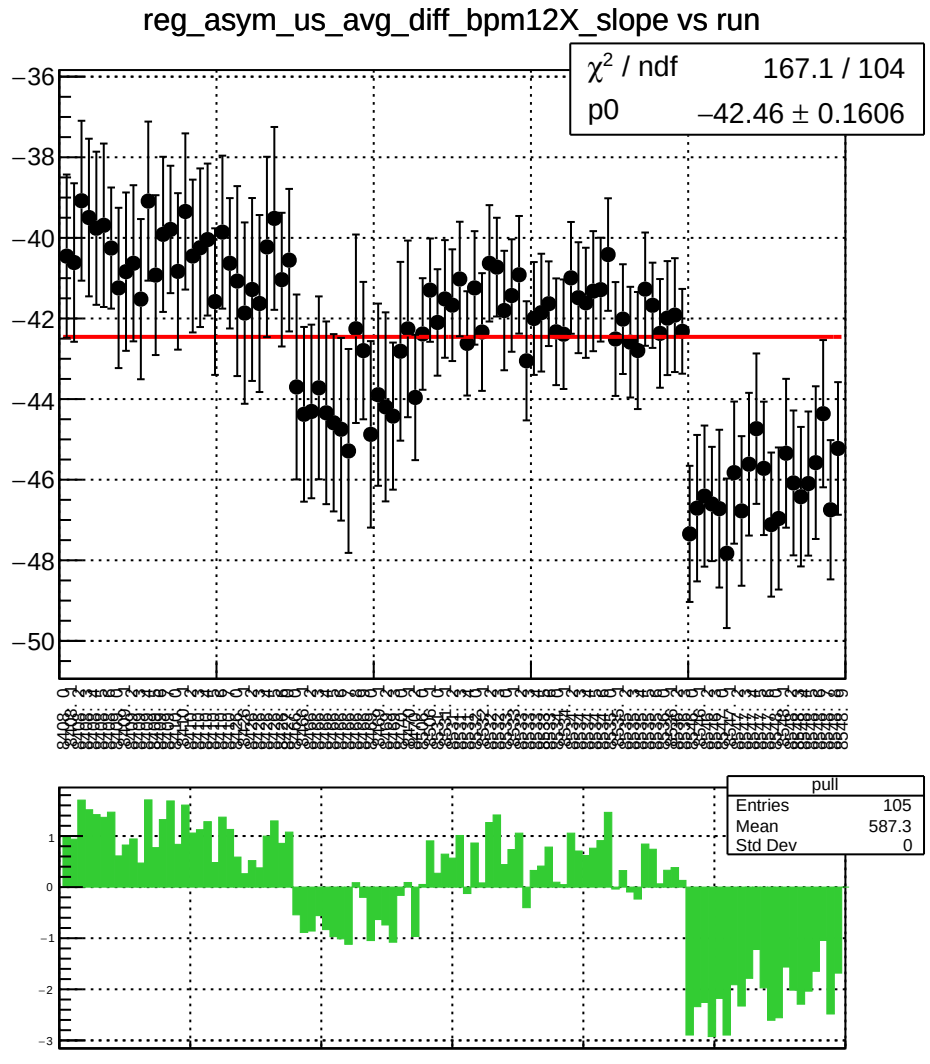

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 20.87 / 104
p0 14.85 ± 2.532
80
60
40
20
0
−20
−40
−60
pull
Entries 105
Mean −54.8
Std Dev 0
1
0.5
0
−0.5
−1

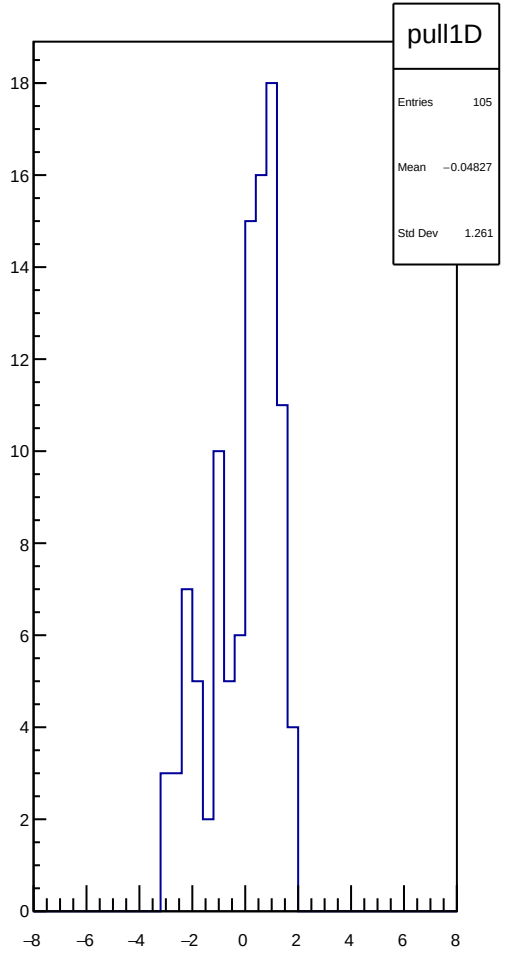

pull1D
Entries 105
Mean −0.0144
Std Dev 0.4456
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

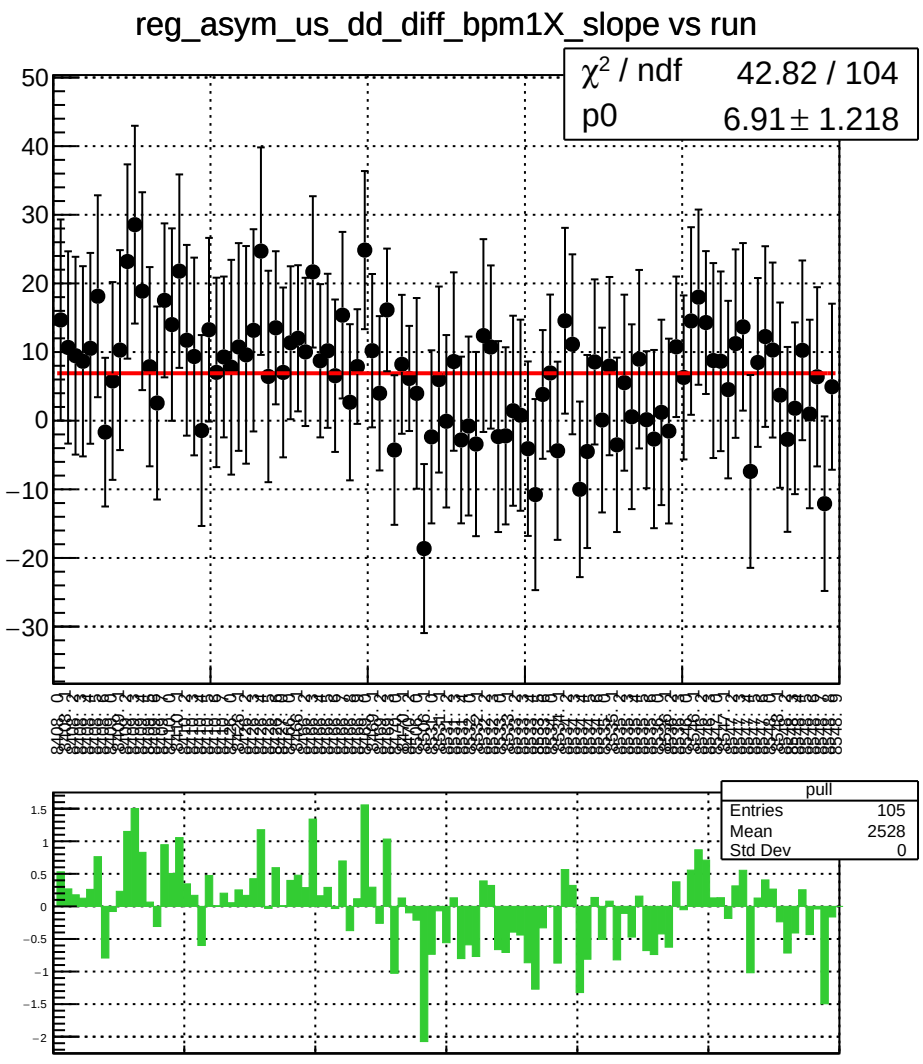

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 33.44 / 104
p0 59.87 ± 1.613
100
80
60
40
20
pull
Entries 105
Mean 1756
Std Dev 0
1.5
1
0.5
0
−0.5
−1

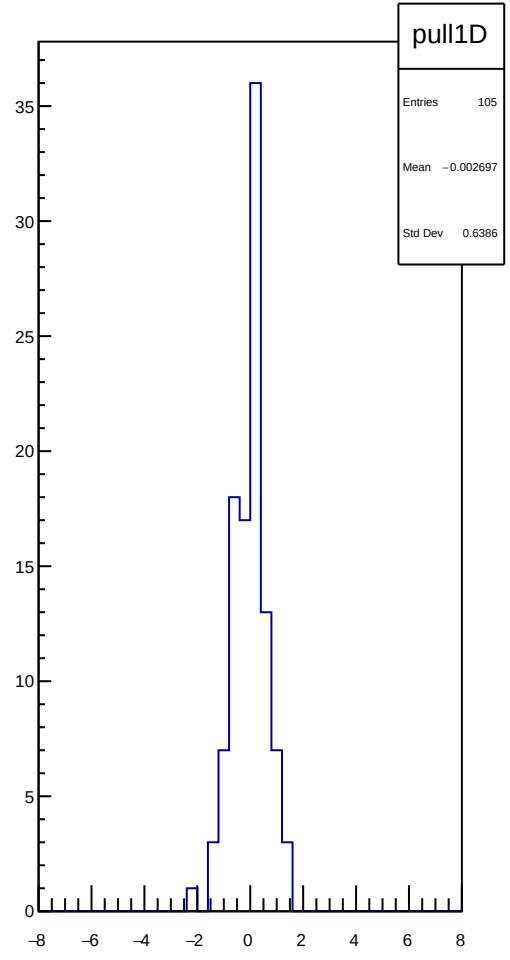

pull1D
Entries 105
Mean −0.00336
Std Dev 0.5643
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

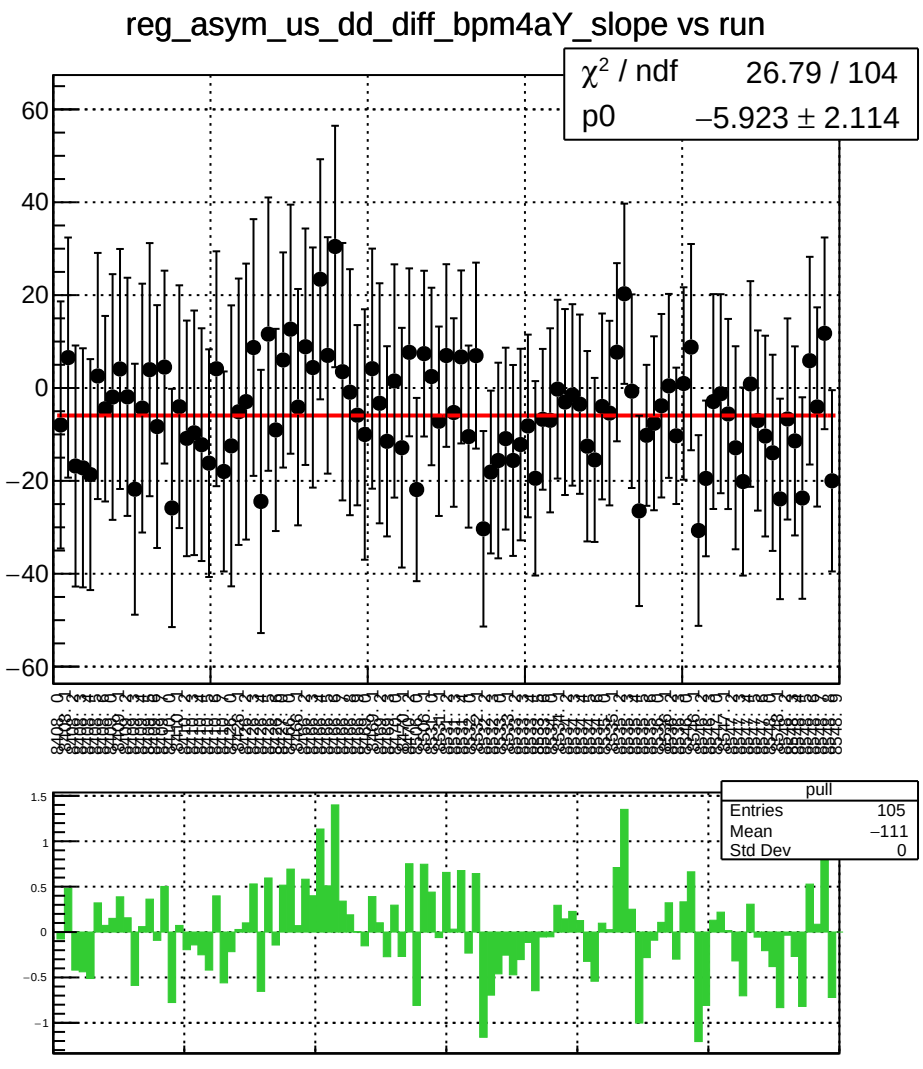

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 22.61 / 104
p0 2.859 ± 2.694
80
60
40
20
0
−20
−40
−60
pull
Entries 105
Mean −21.77
Std Dev 0
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 105
Mean 0.02679
Std Dev 0.4633
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

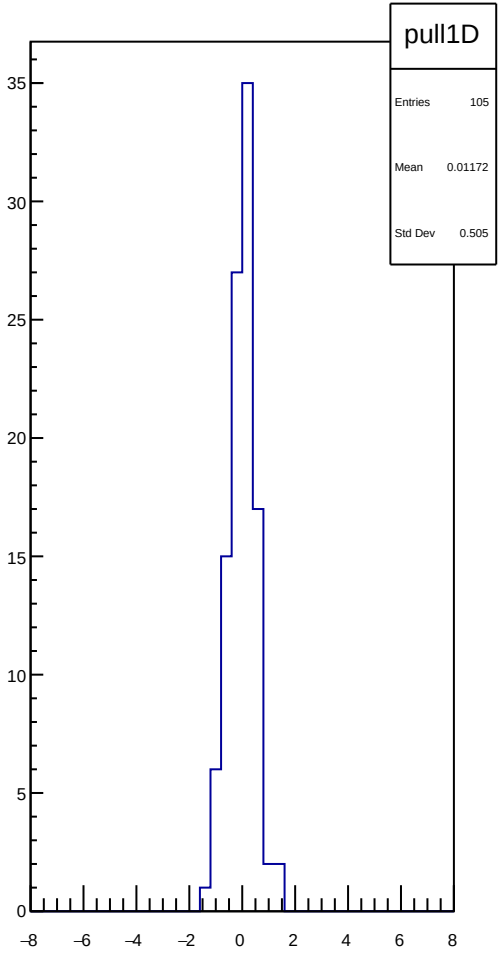

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 167.1 / 104
p0 −42.46 ± 0.1606
−36
−38
−40
−42
−44
−46
−48
−50
pull
Entries 105
Mean 587.3
Std Dev 0
1
0
−1
−2
−3

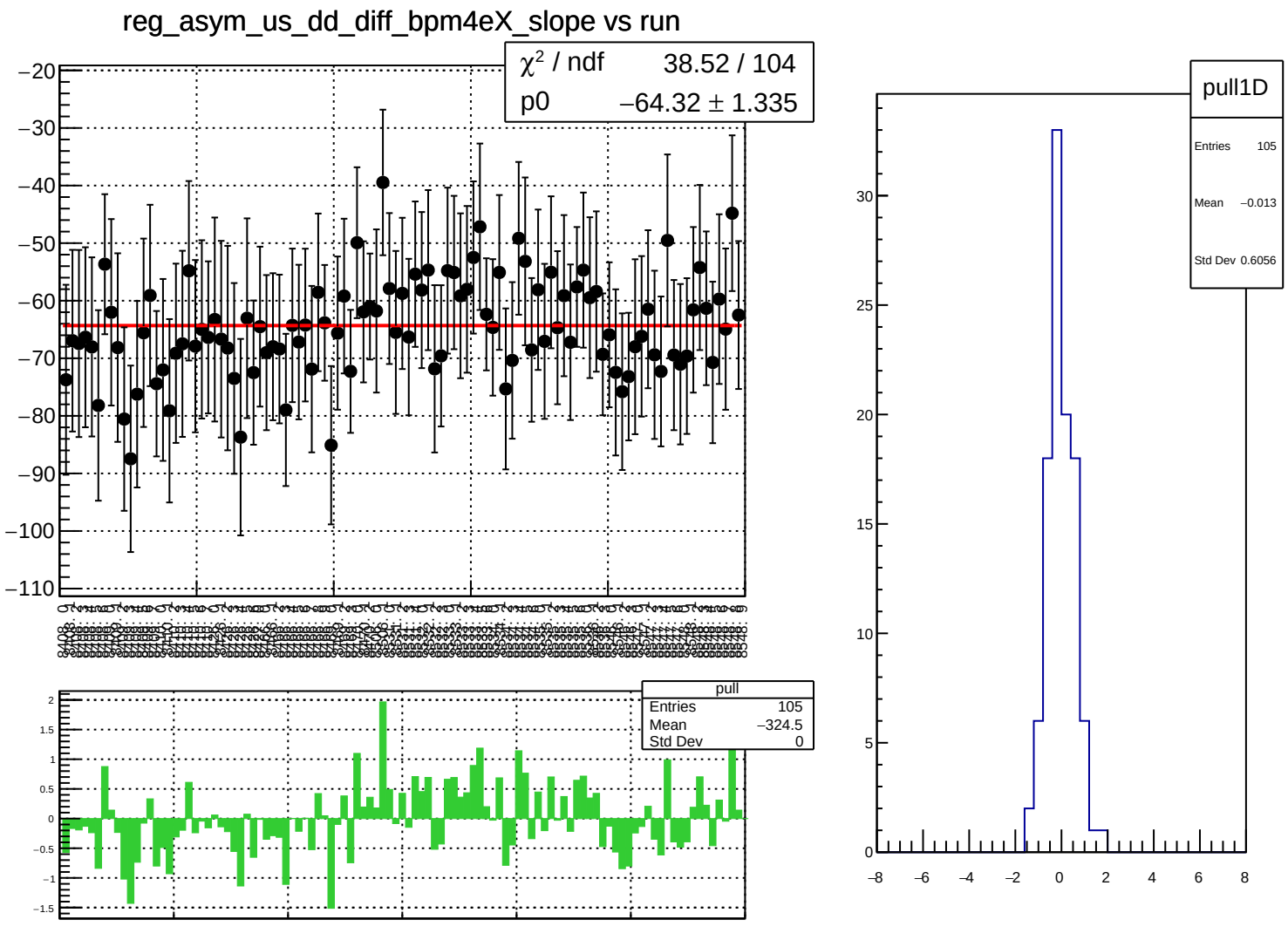

pull1D
Entries 105
Mean −0.04827
Std Dev 1.261
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

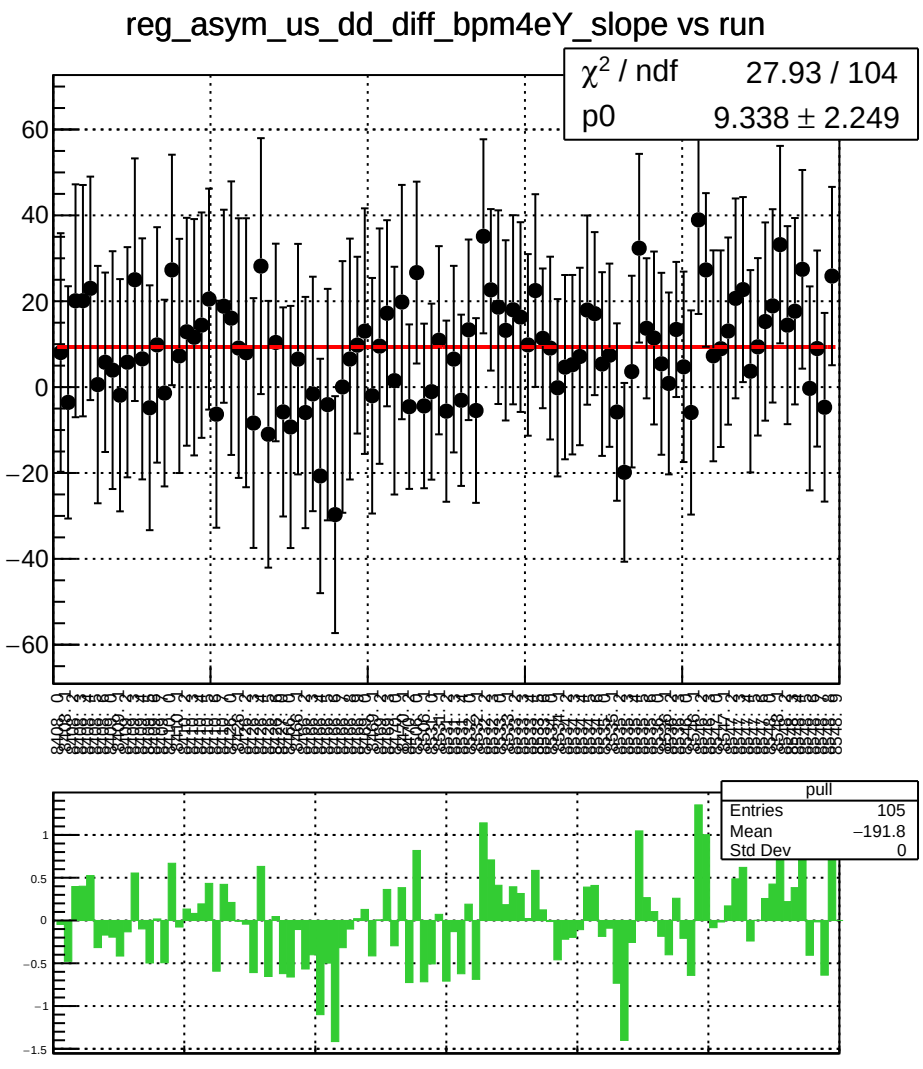

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 42.82 / 104
p0 6.91 ± 1.218
pull
Entries 105
Mean 2528
Std Dev 0

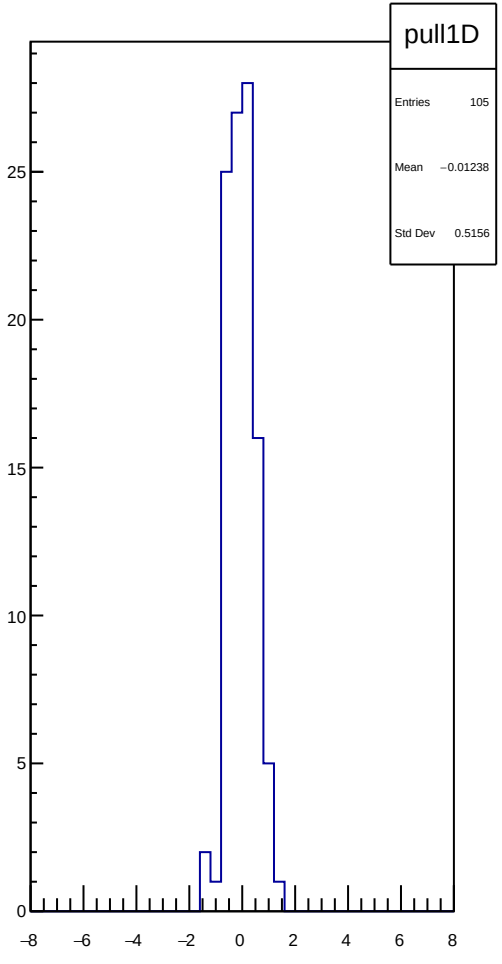

pull1D
Entries 105
Mean −0.002697
Std Dev 0.6386

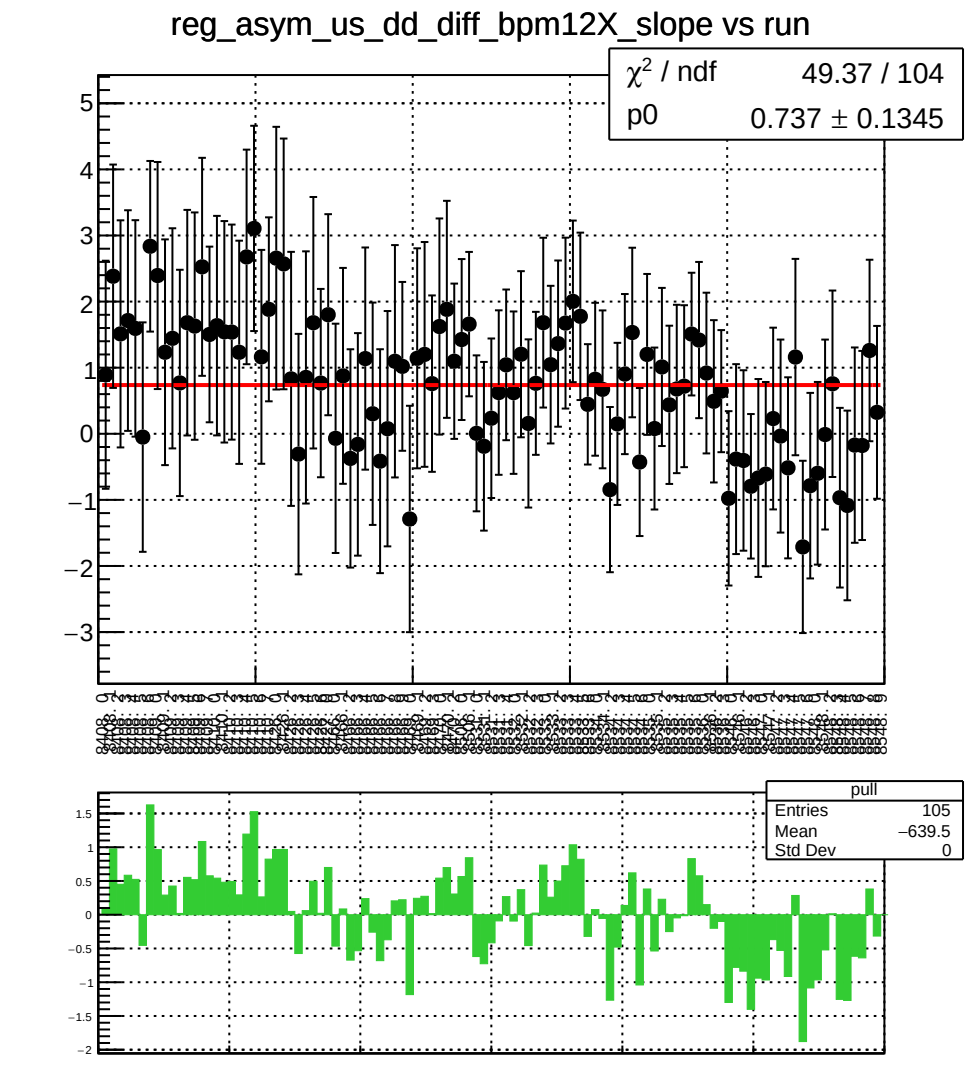

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 26.79 / 104
p0 −5.923 ± 2.114
pull
Entries 105
Mean −111
Std Dev 0

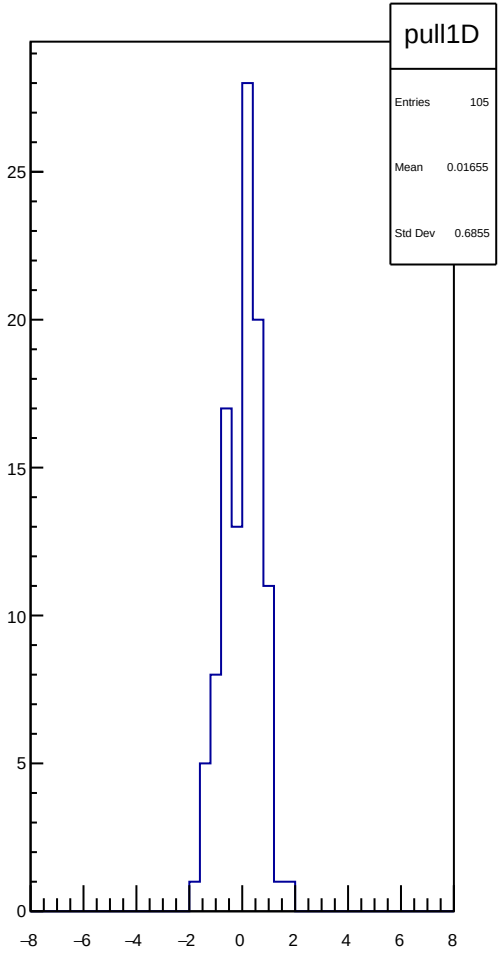

pull1D
Entries 105
Mean 0.01172
Std Dev 0.505

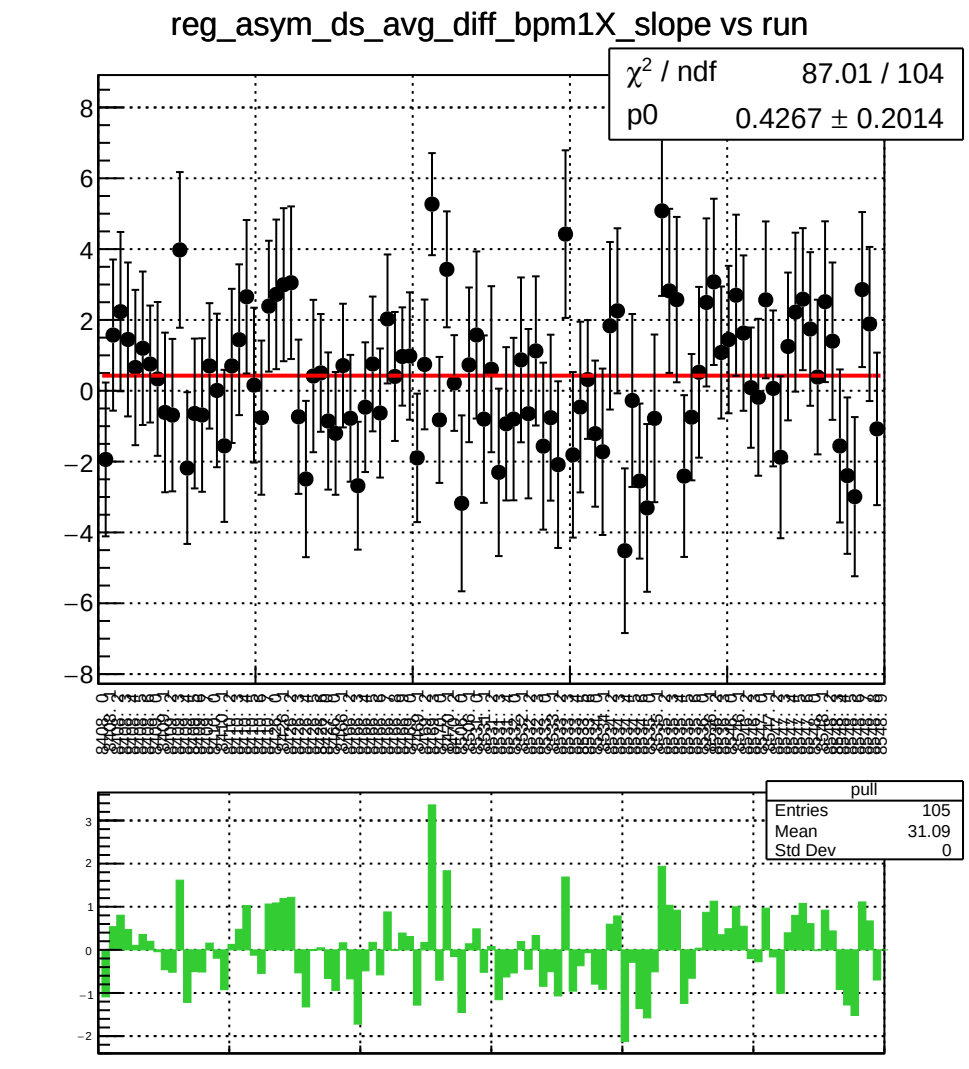

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 38.52 / 104
p0 −64.32 ± 1.335
pull
Entries 105
Mean −324.5
Std Dev 0
pull1D
Entries 105
Mean −0.013
Std Dev 0.6056

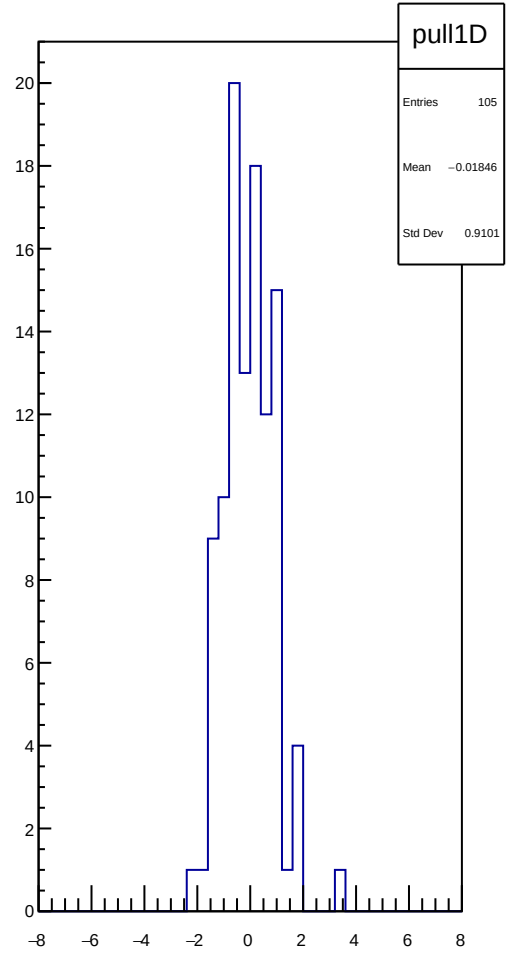

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 27.93 / 104
p0 9.338 ± 2.249
pull
Entries 105
Mean −191.8
Std Dev 0

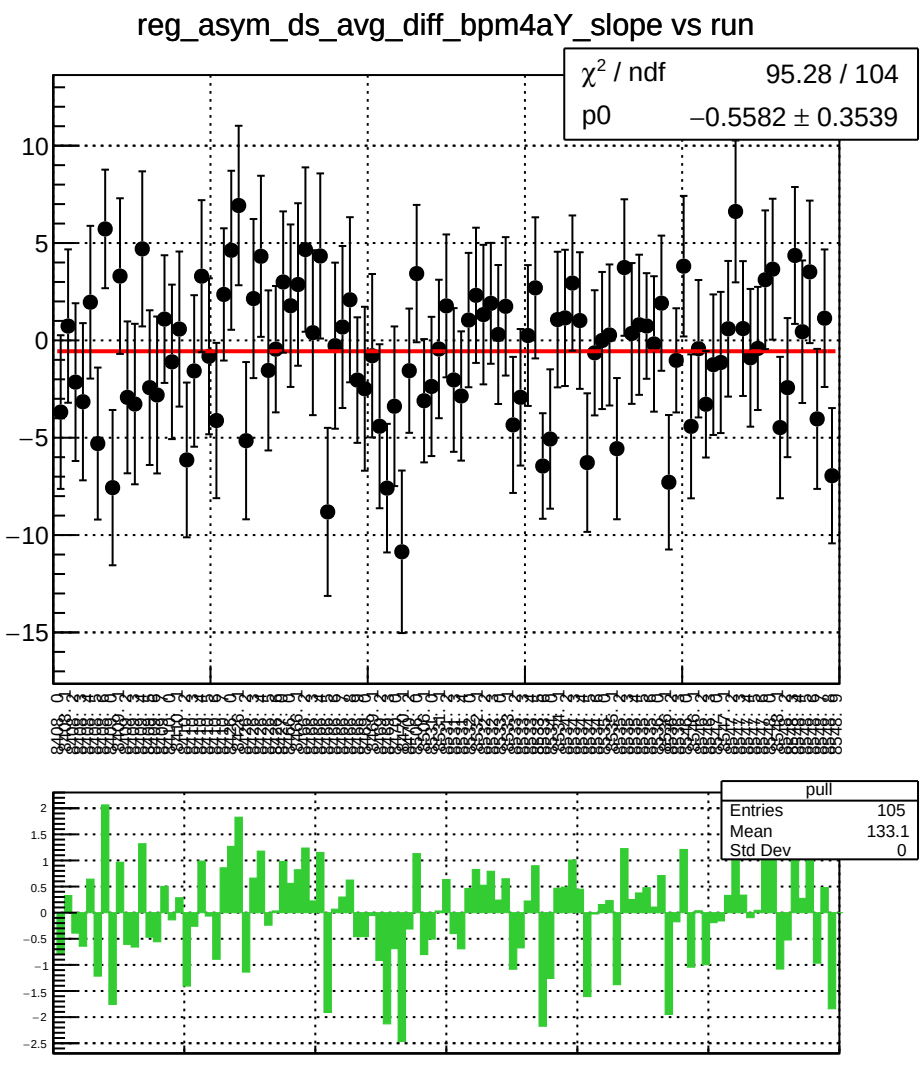

pull1D
Entries 105
Mean −0.01238
Std Dev 0.5156

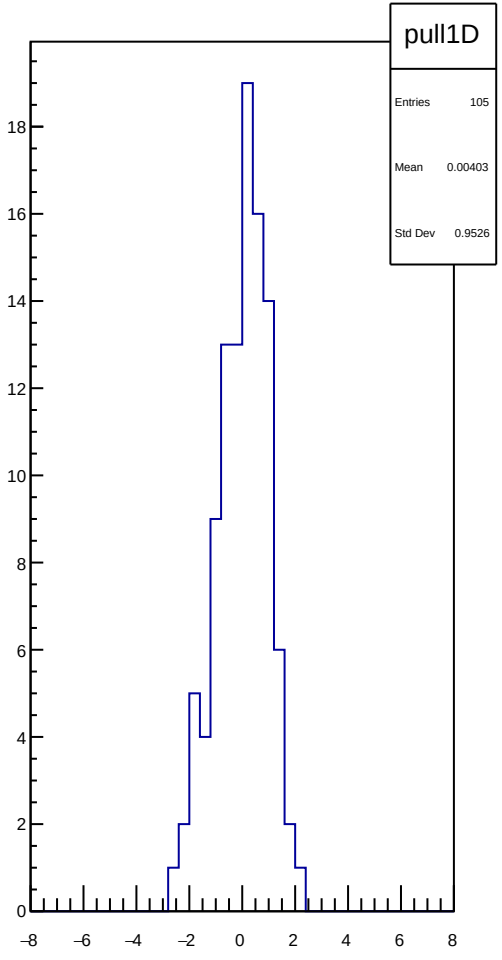

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 49.37 / 104
p0 0.737 ± 0.1345
pull
Entries 105
Mean −639.5
Std Dev 0

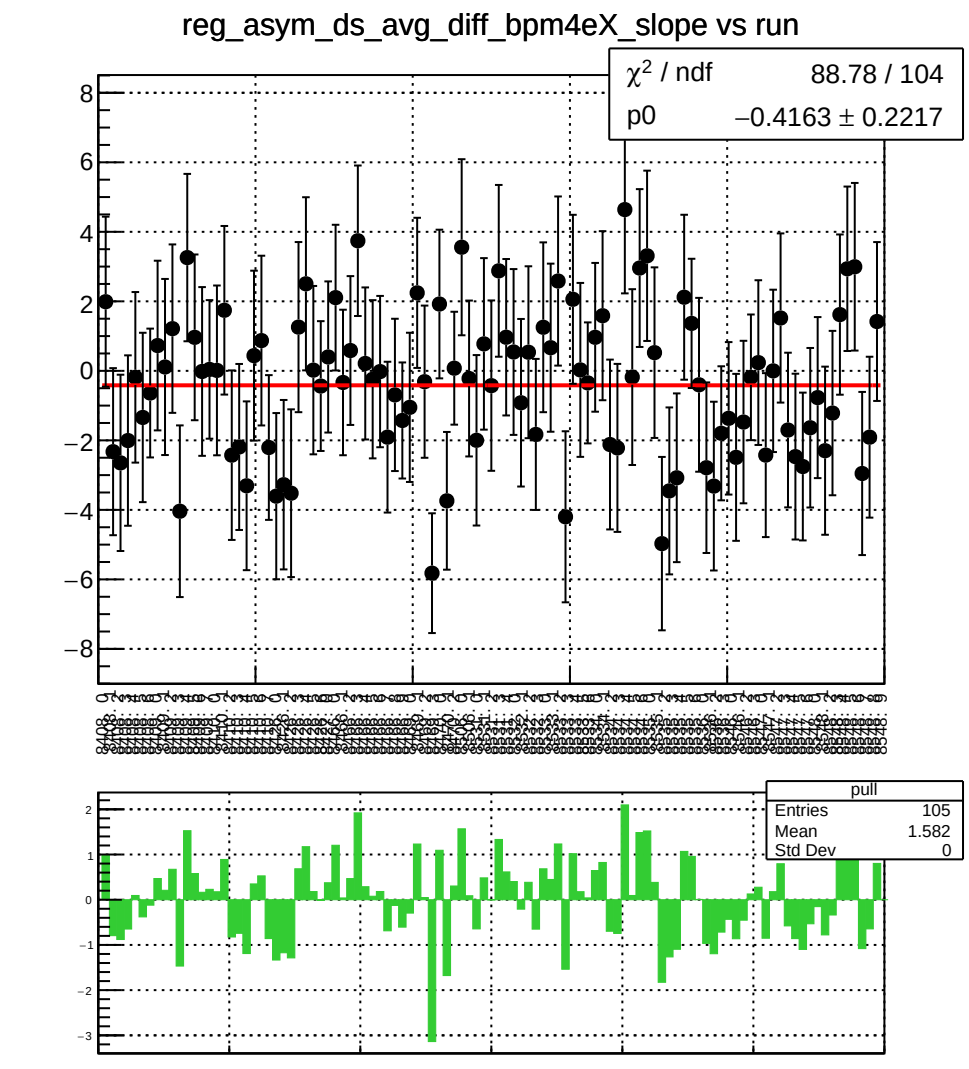

pull1D
Entries 105
Mean 0.01655
Std Dev 0.6855

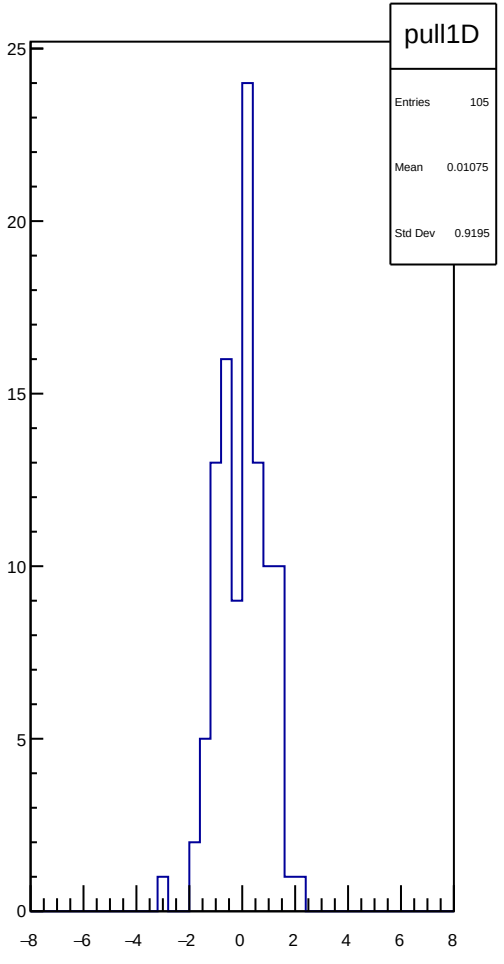

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 87.01 / 104
p0 0.4267 ± 0.2014
pull
Entries 105
Mean 31.09
Std Dev 0

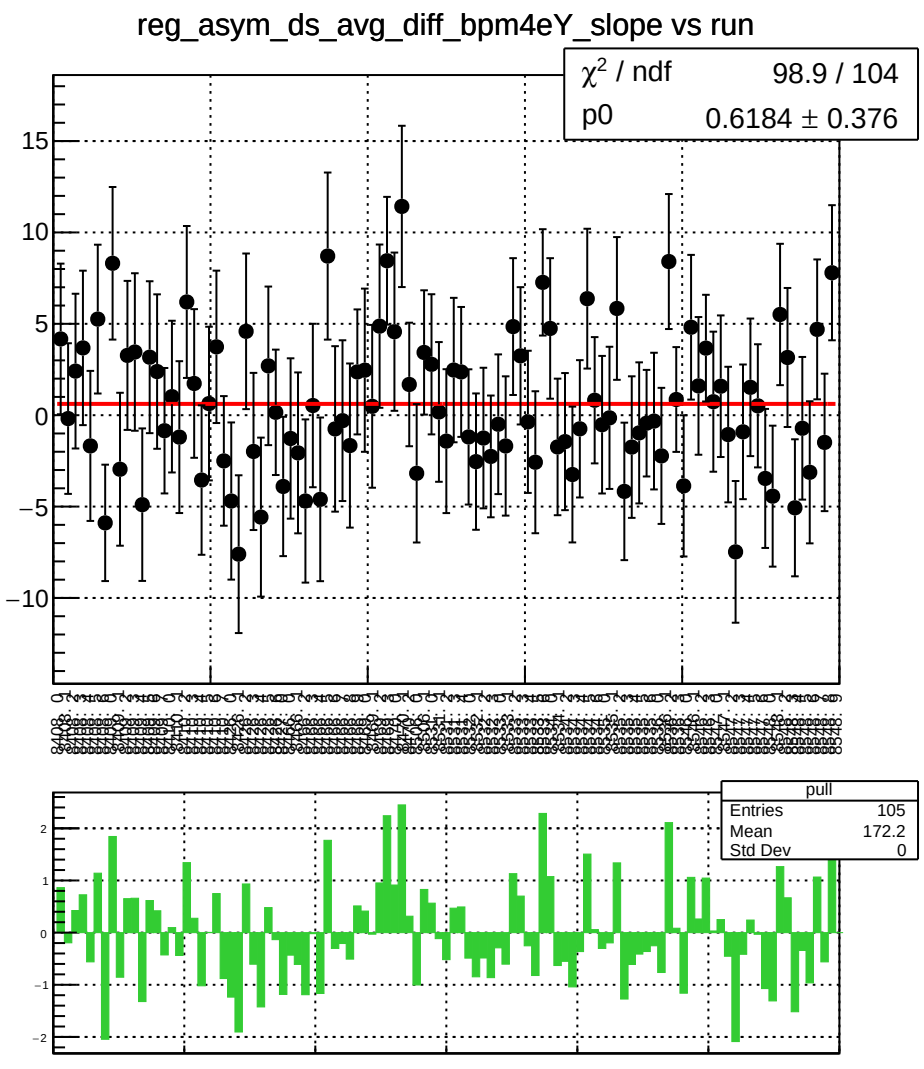

pull1D
Entries 105
Mean −0.01846
Std Dev 0.9101

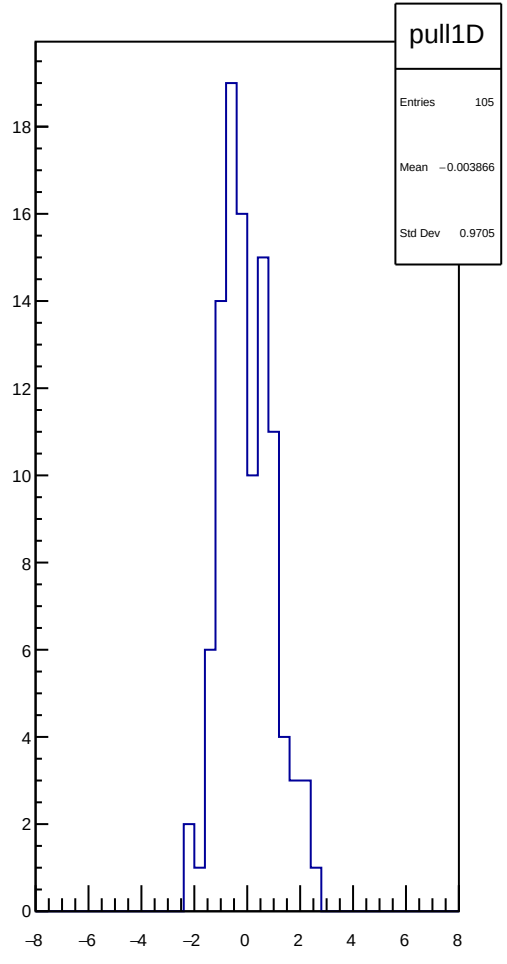

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 95.28 / 104
p0 −0.5582 ± 0.3539
10
5
0
−5
−10
−15
pull
Entries 105
Mean 133.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

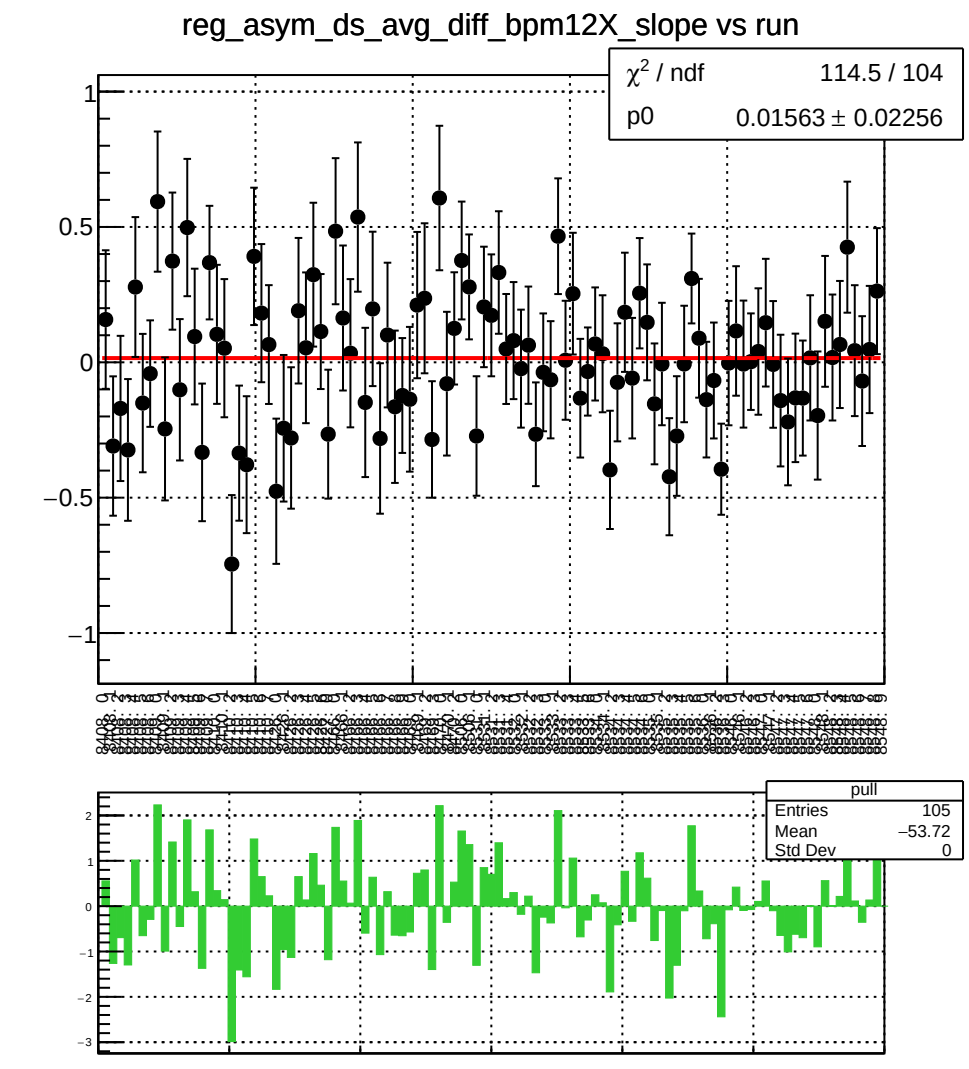

pull1D
Entries 105
Mean 0.00403
Std Dev 0.9526
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

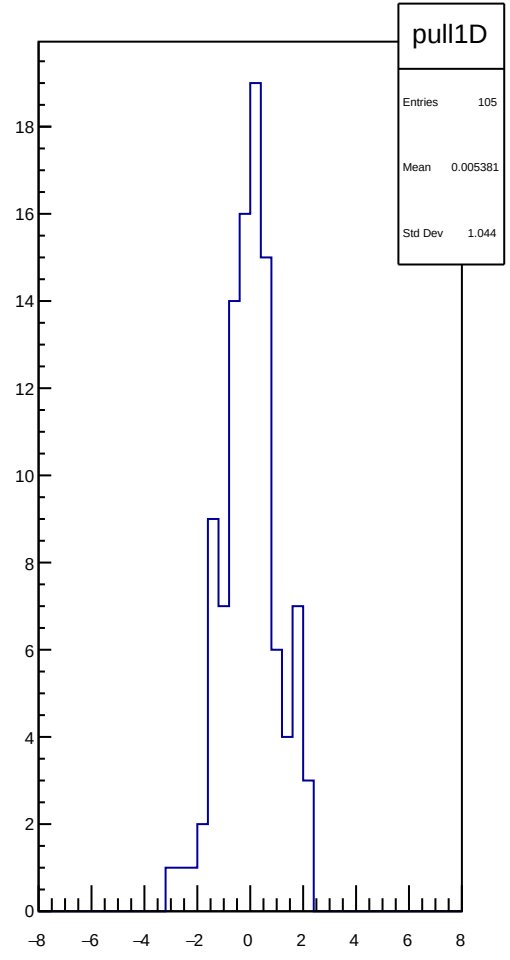

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 88.78 / 104
p0 −0.4163 ± 0.2217
pull
Entries 105
Mean 1.582
Std Dev 0

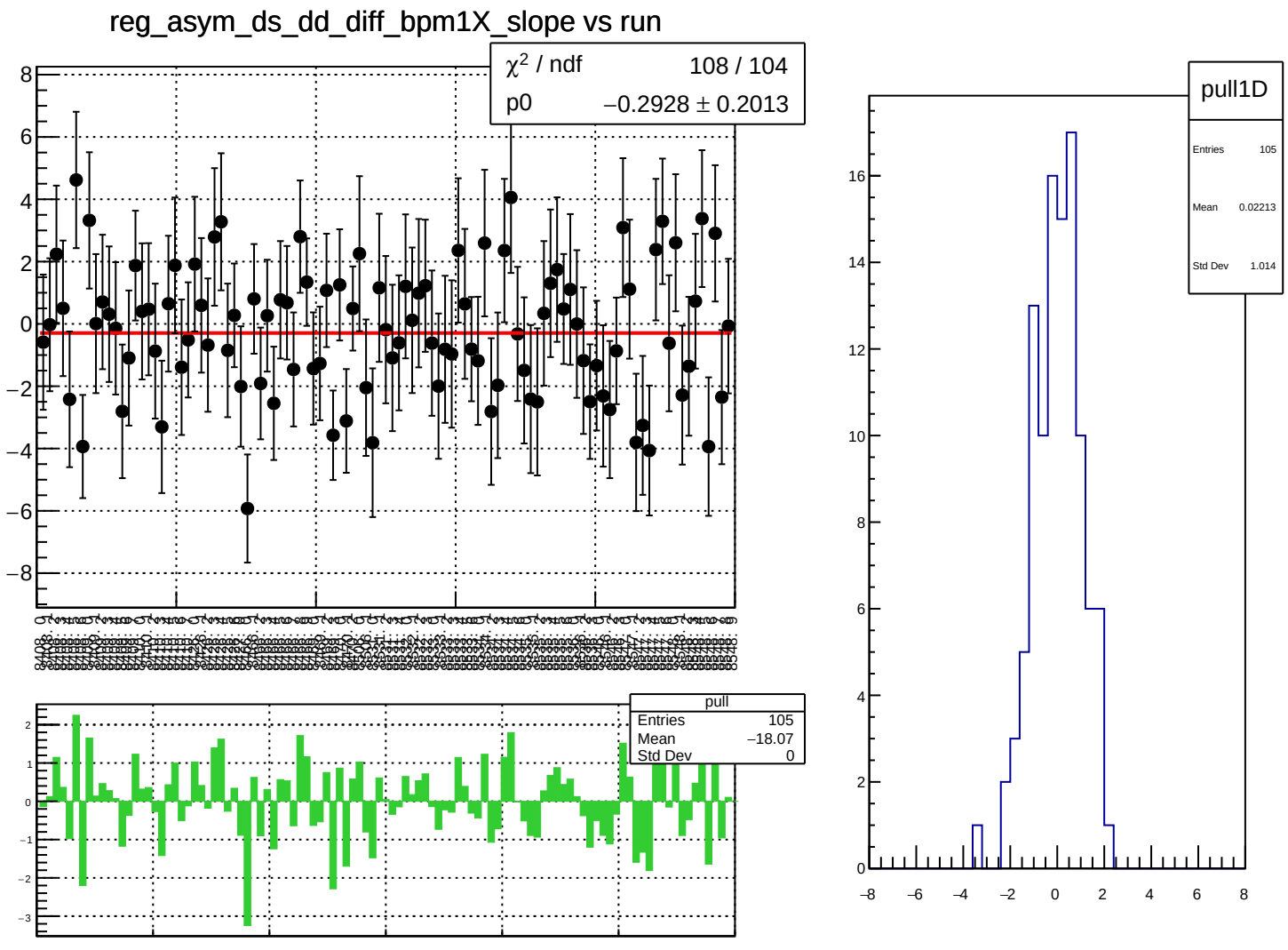

pull1D
Entries 105
Mean 0.01075
Std Dev 0.9195

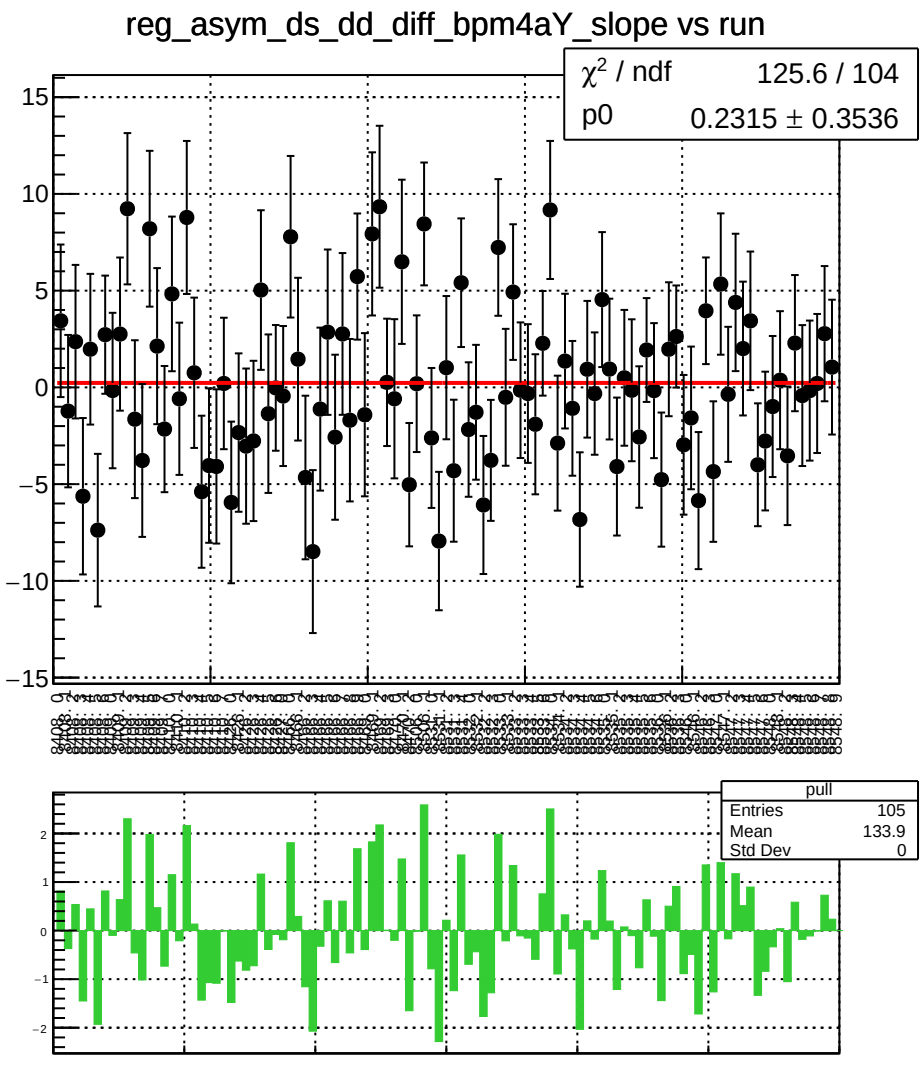

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 98.9 / 104
p0 0.6184 ± 0.376
15
10
5
0
−5
−10
pull
Entries 105
Mean 172.2
Std Dev 0
2
1
0
−1
−2

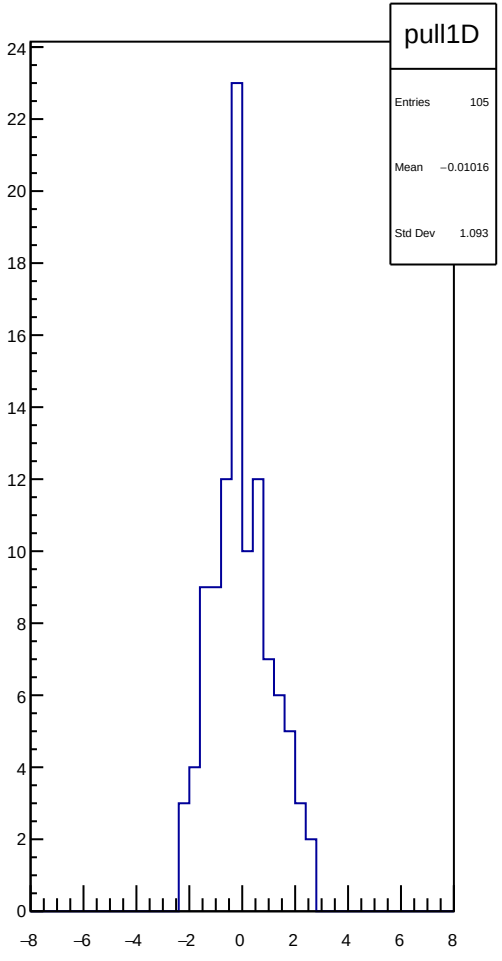

pull1D
Entries 105
Mean −0.003866
Std Dev 0.9705
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

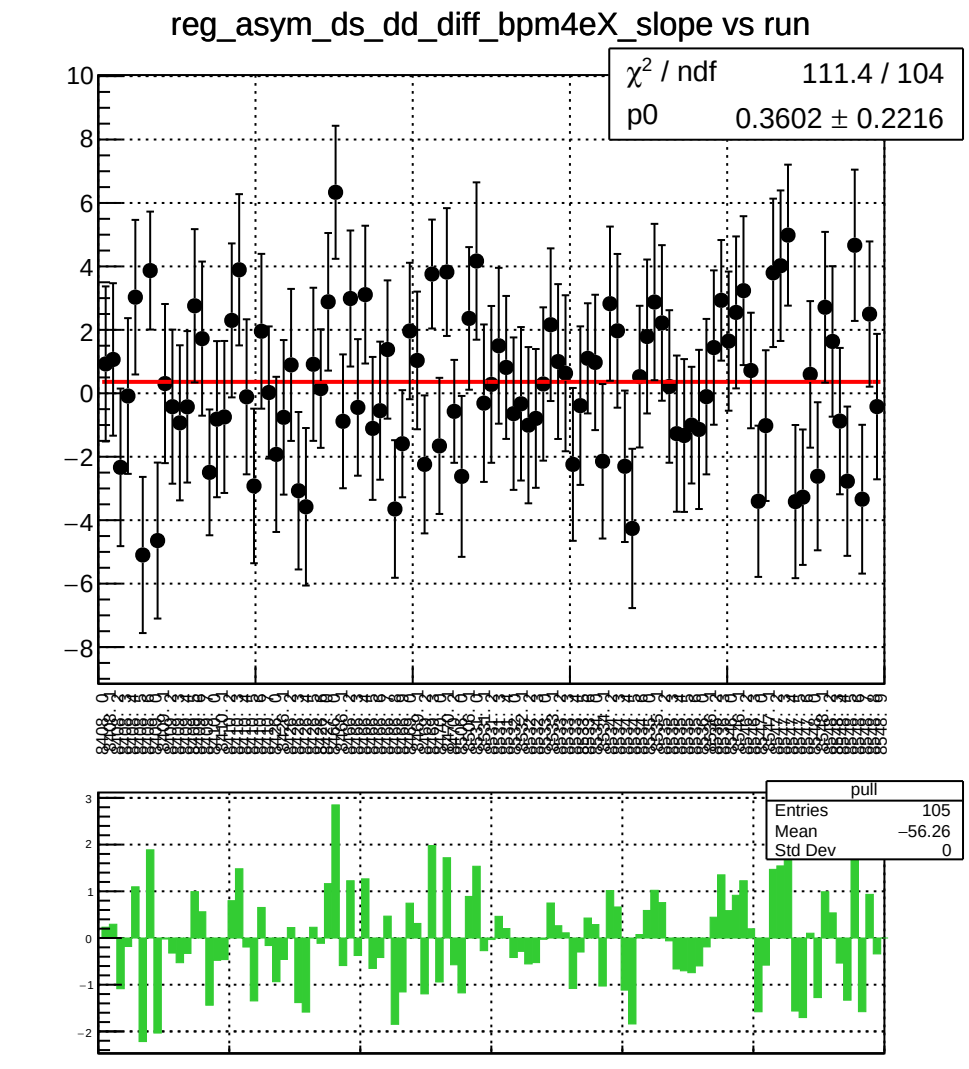

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 114.5 / 104
p0 0.01563 ± 0.02256
pull
Entries 105
Mean −53.72
Std Dev 0

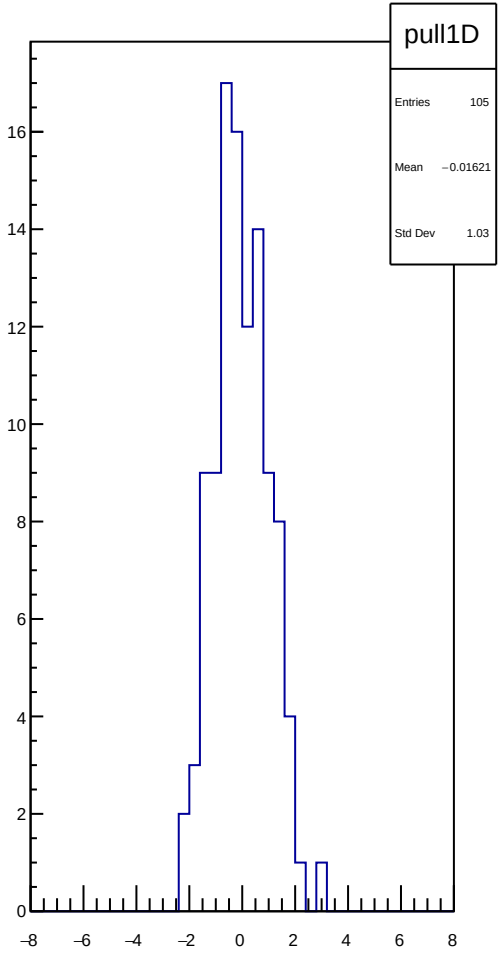

pull1D
Entries 105
Mean 0.005381
Std Dev 1.044

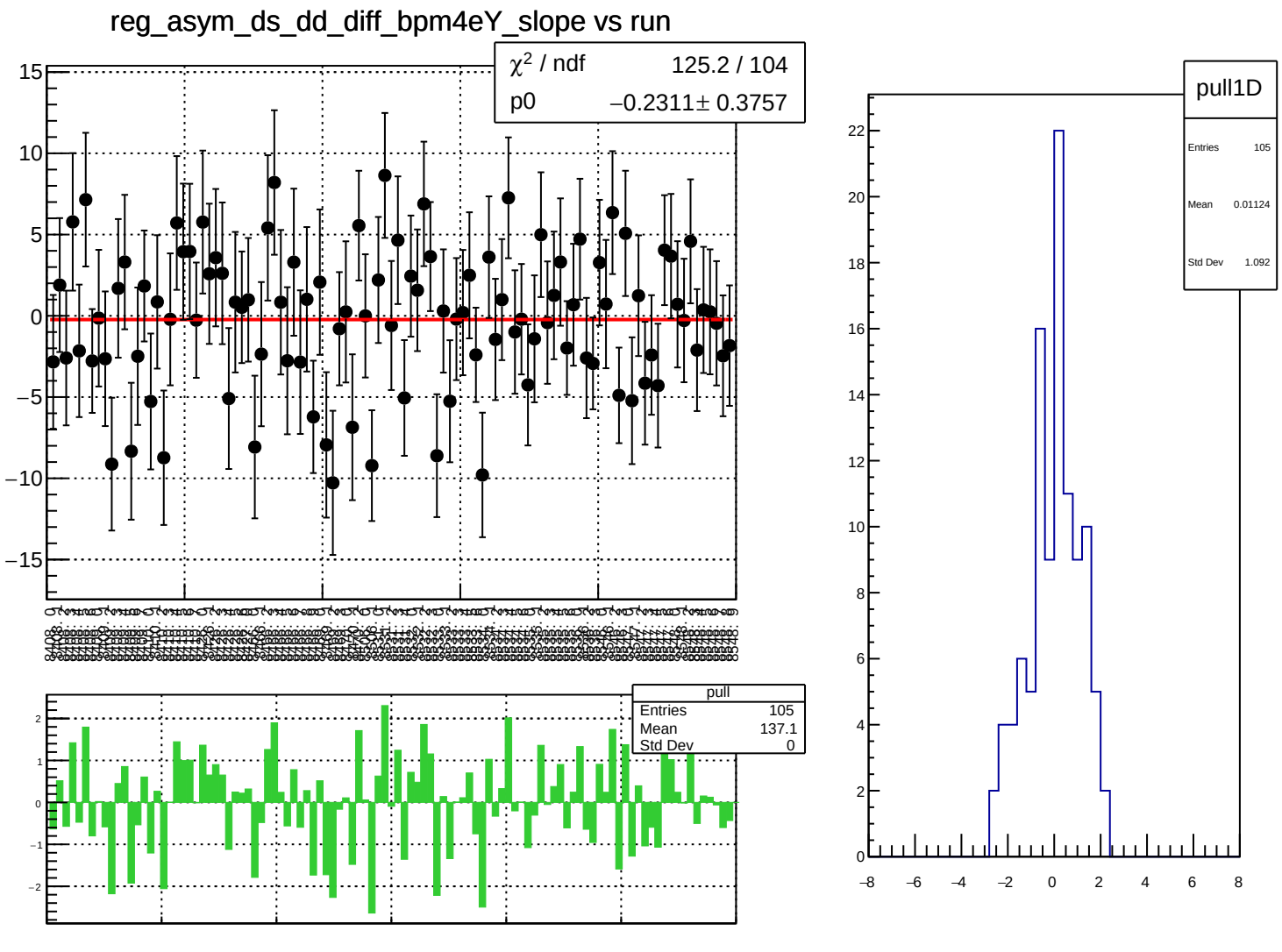

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 108 / 104
p0 −0.2928 ± 0.2013
pull
Entries 105
Mean −18.07
Std Dev 0
pull1D
Entries 105
Mean 0.02213
Std Dev 1.014

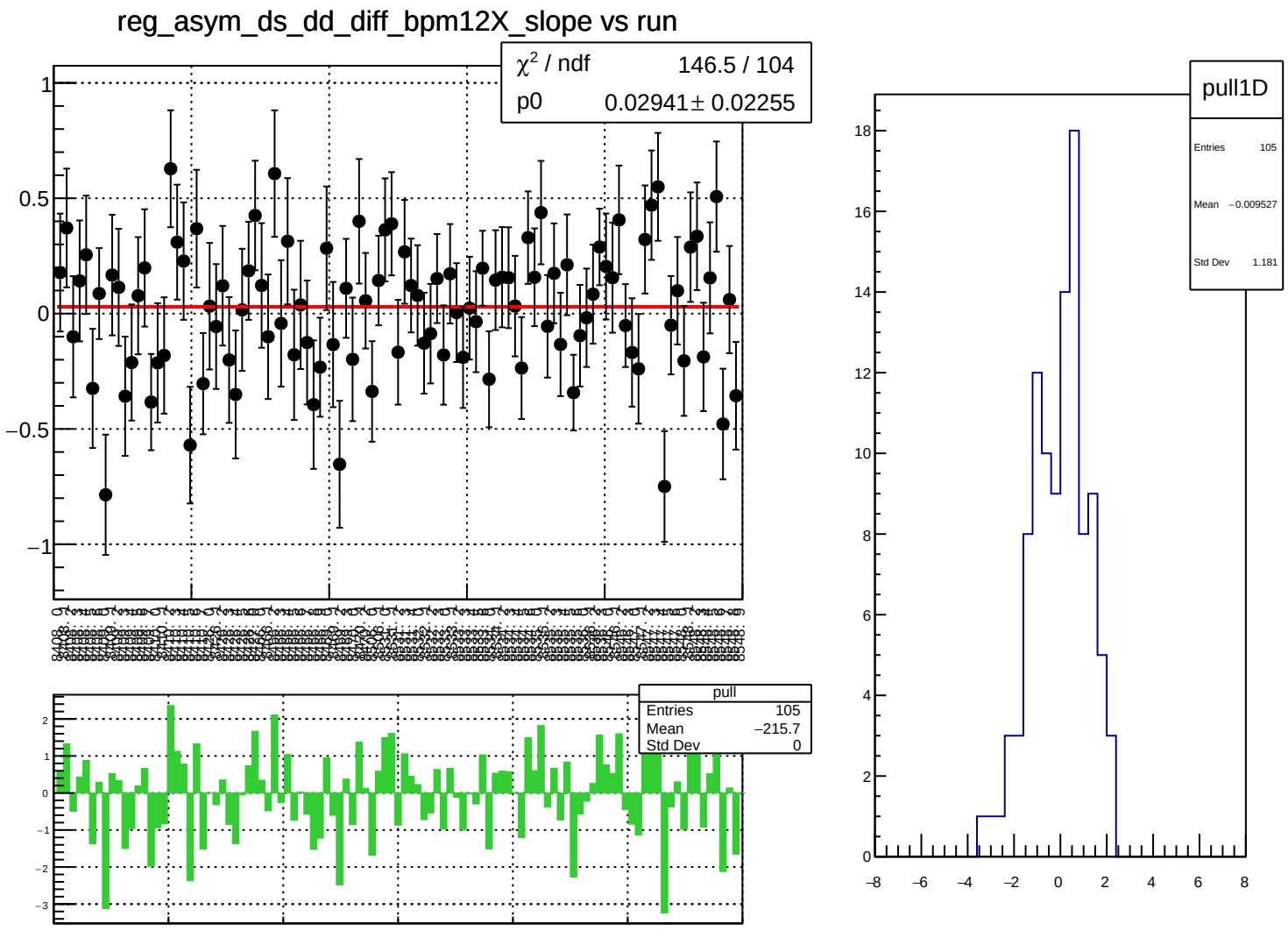

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 125.6 / 104
p0 0.2315 ± 0.3536
pull
Entries 105
Mean 133.9
Std Dev 0

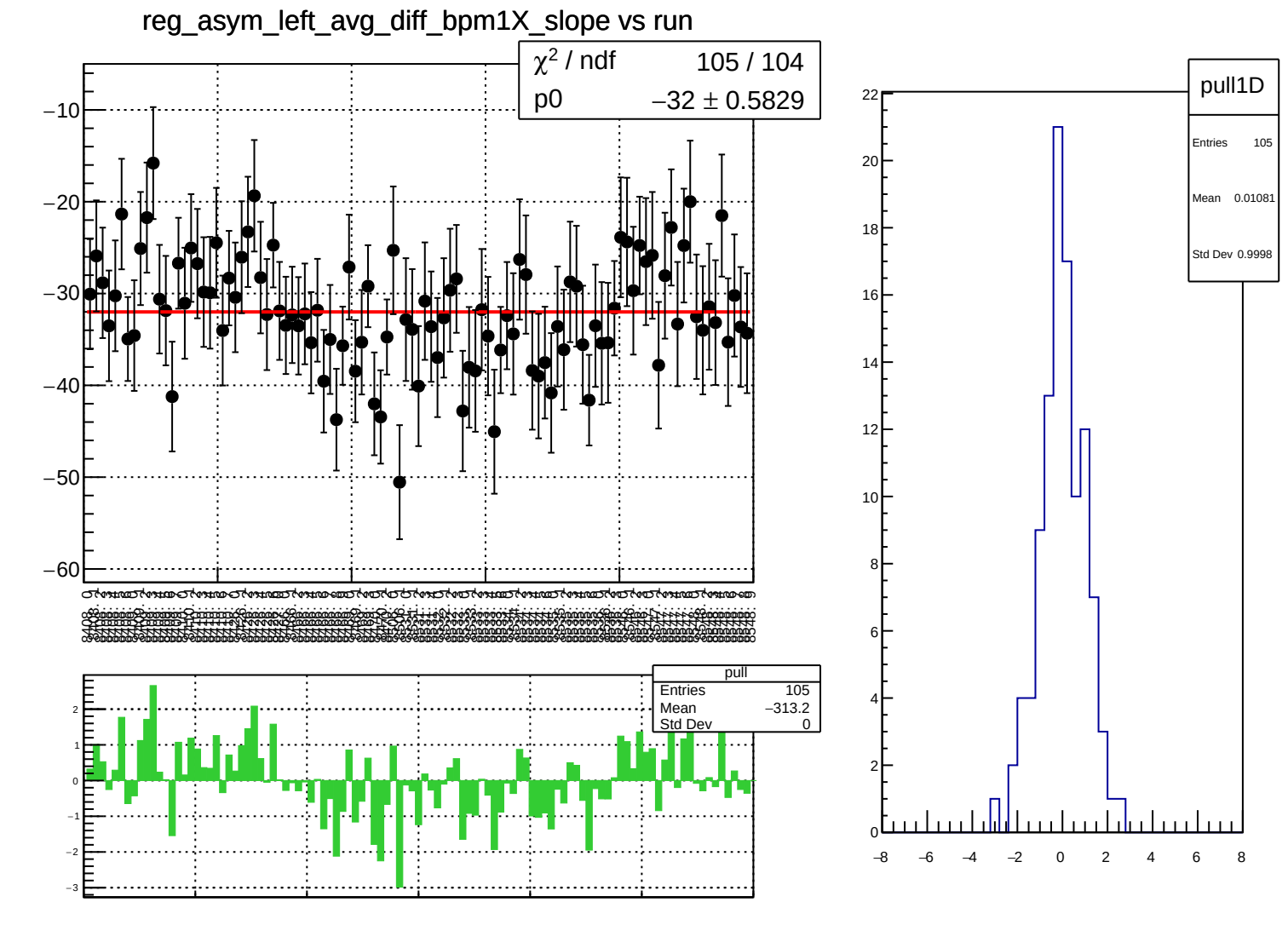

pull1D
Entries 105
Mean −0.01016
Std Dev 1.093

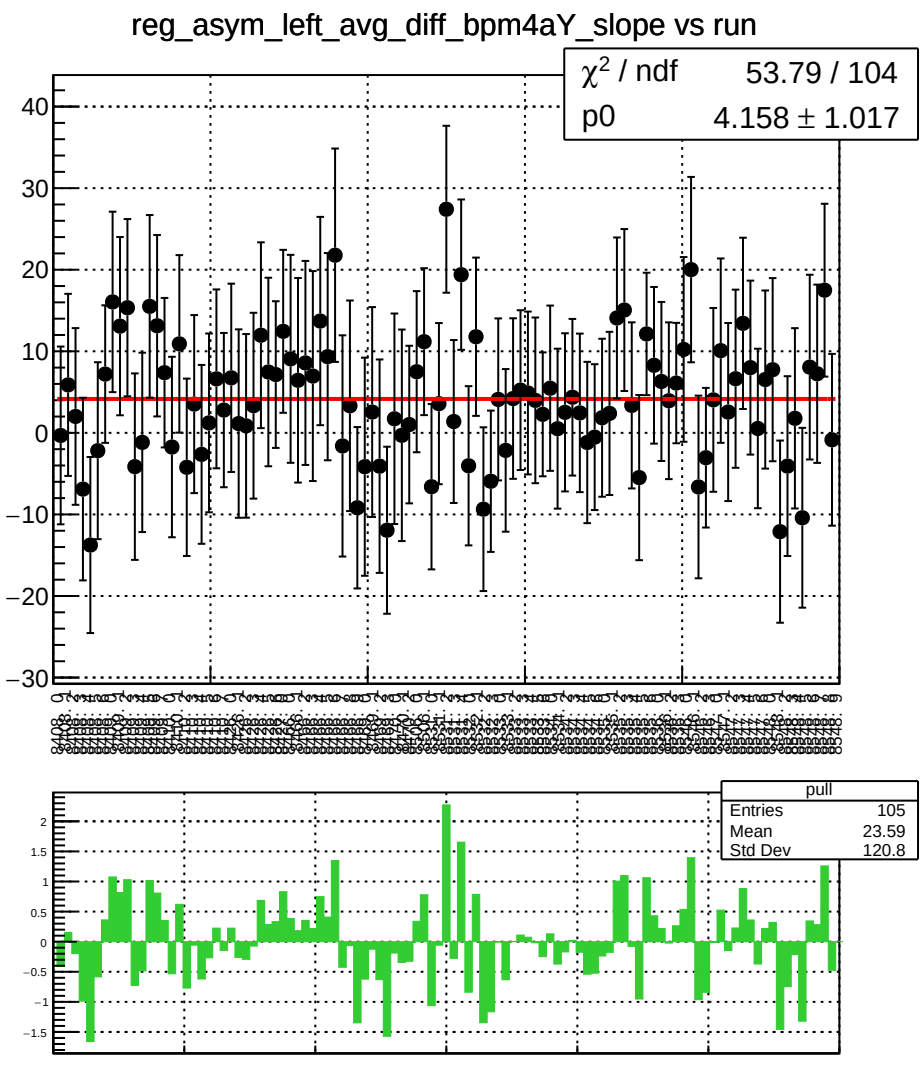

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 111.4 / 104
p0 0.3602 ± 0.2216
pull
Entries 105
Mean −56.26
Std Dev 0

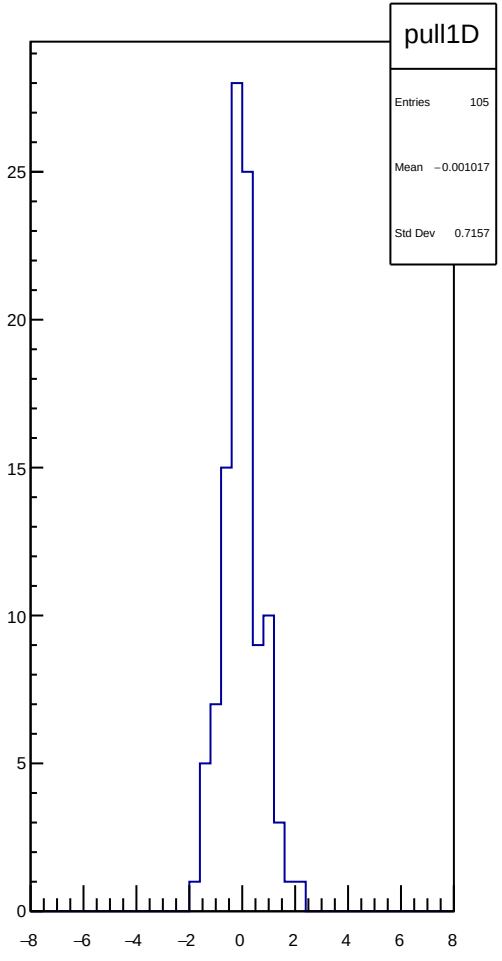

pull1D
Entries 105
Mean −0.01621
Std Dev 1.03

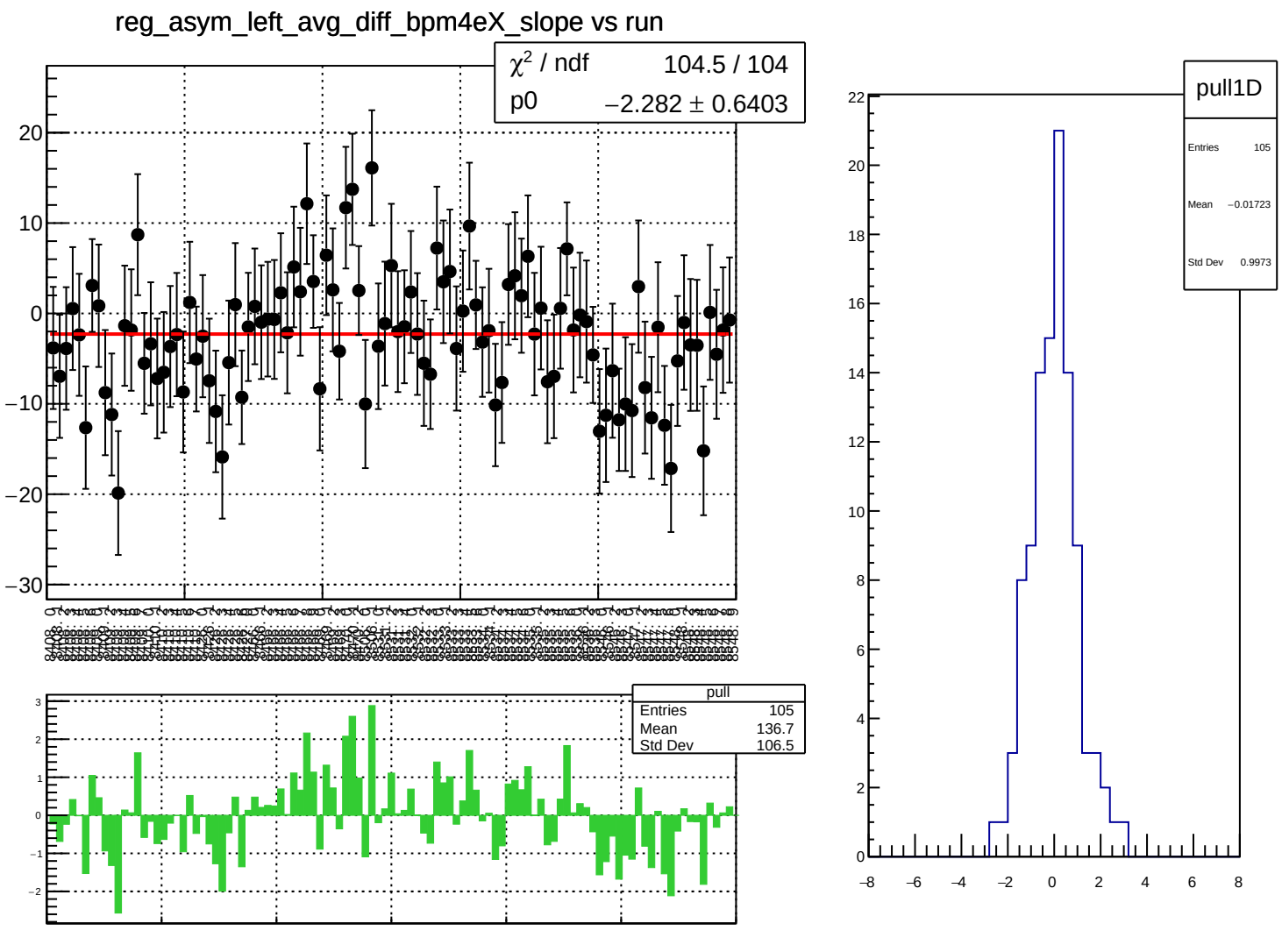

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 125.2 / 104
p0 −0.2311± 0.3757
pull
Entries 105
Mean 137.1
Std Dev 0
pull1D
Entries 105
Mean 0.01124
Std Dev 1.092

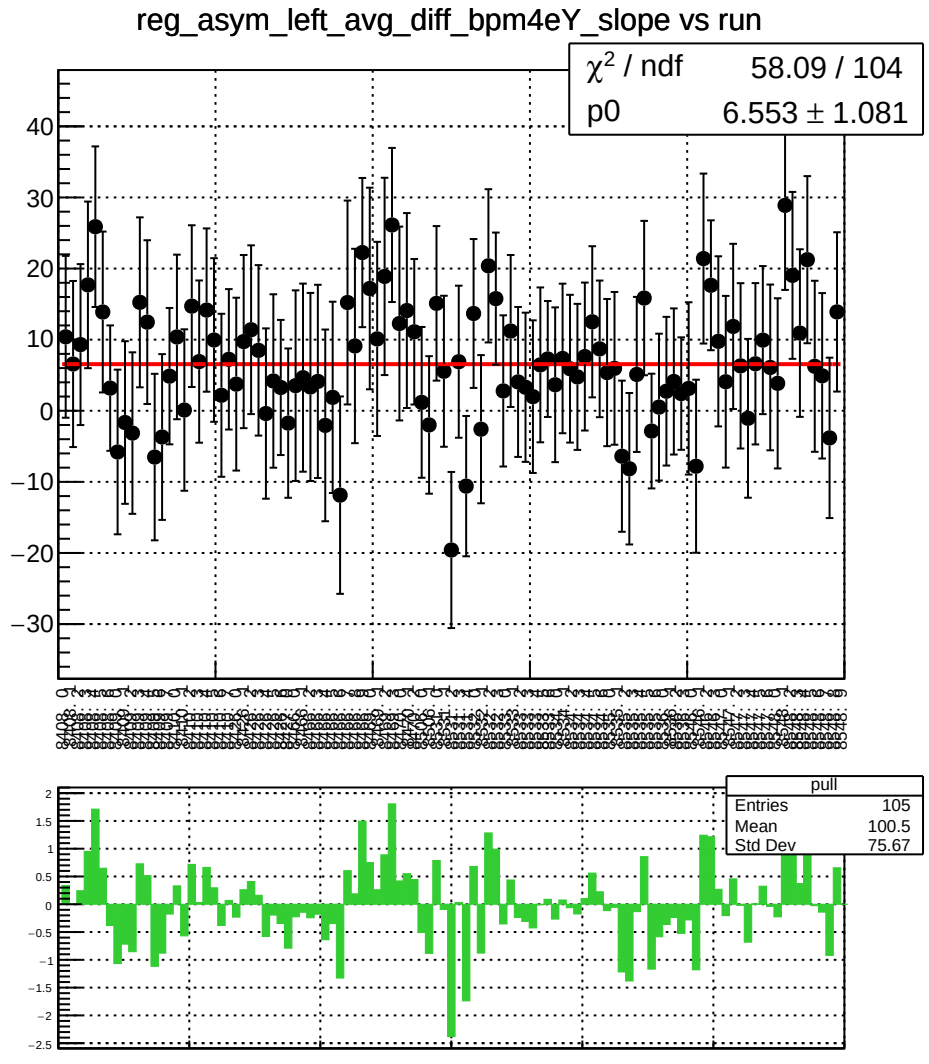

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 146.5 / 104
p0 0.02941 ± 0.02255
pull
Entries 105
Mean −215.7
Std Dev 0
pull1D
Entries 105
Mean −0.009527
Std Dev 1.181

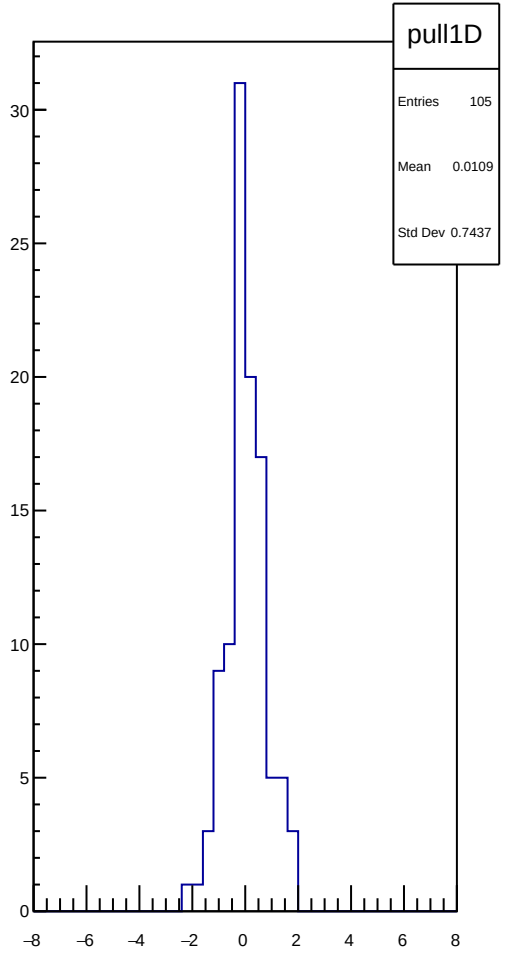

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 105 / 104
p0 −32 ± 0.5829
pull
Entries 105
Mean −313.2
Std Dev 0
pull1D
Entries 105
Mean 0.01081
Std Dev 0.9998

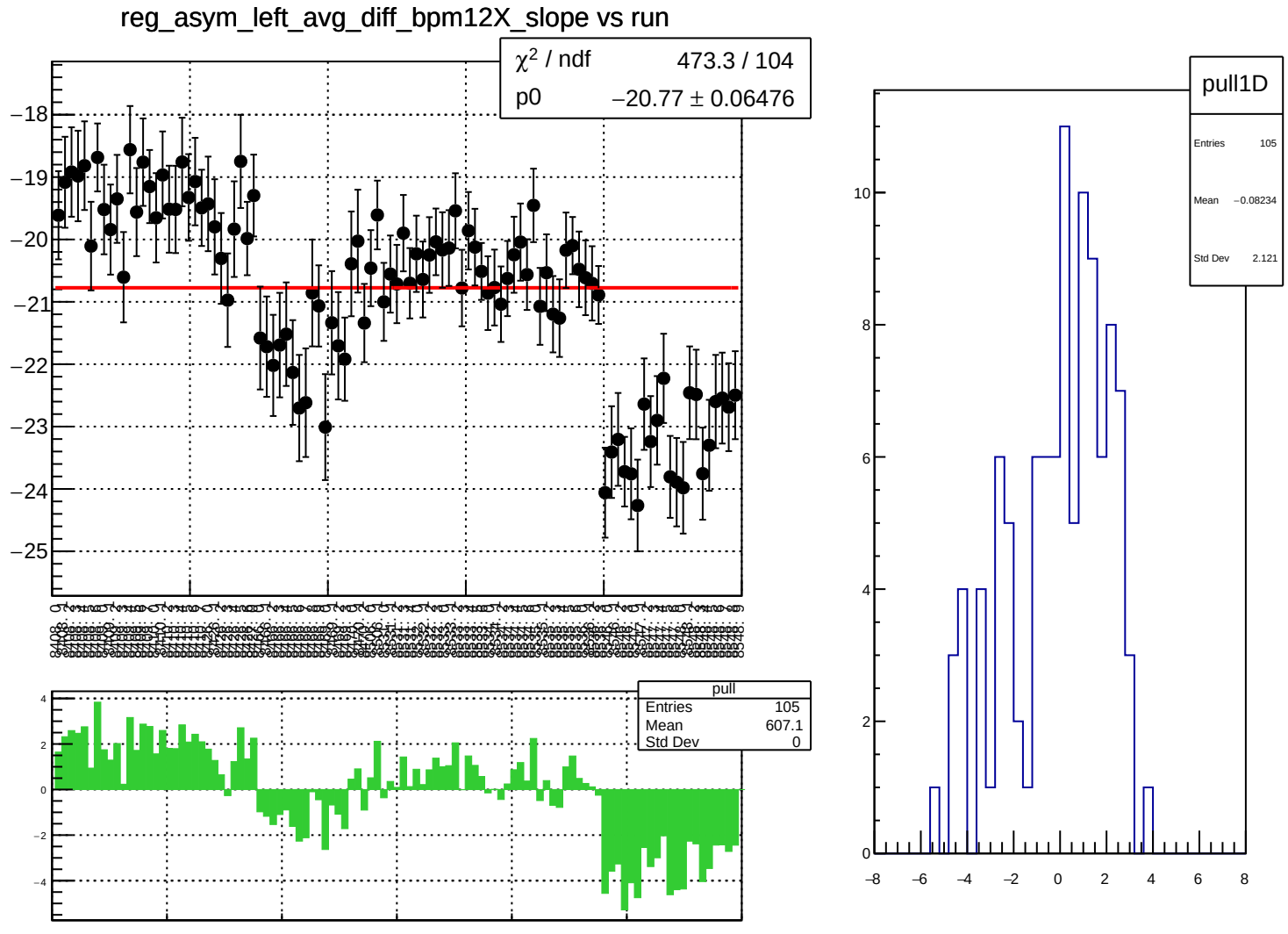

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 53.79 / 104
p0 4.158 ± 1.017
pull
Entries 105
Mean 23.59
Std Dev 120.8

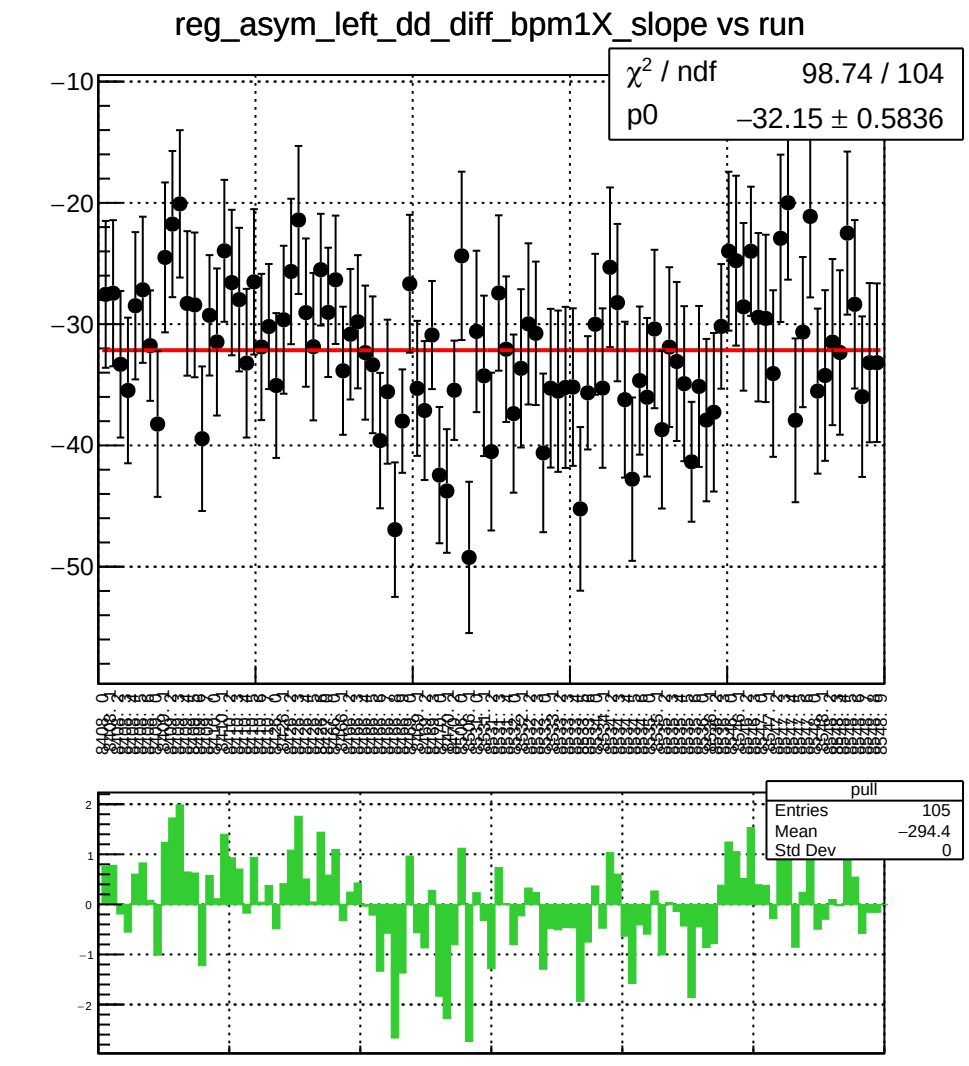

pull1D
Entries 105
Mean −0.001017
Std Dev 0.7157

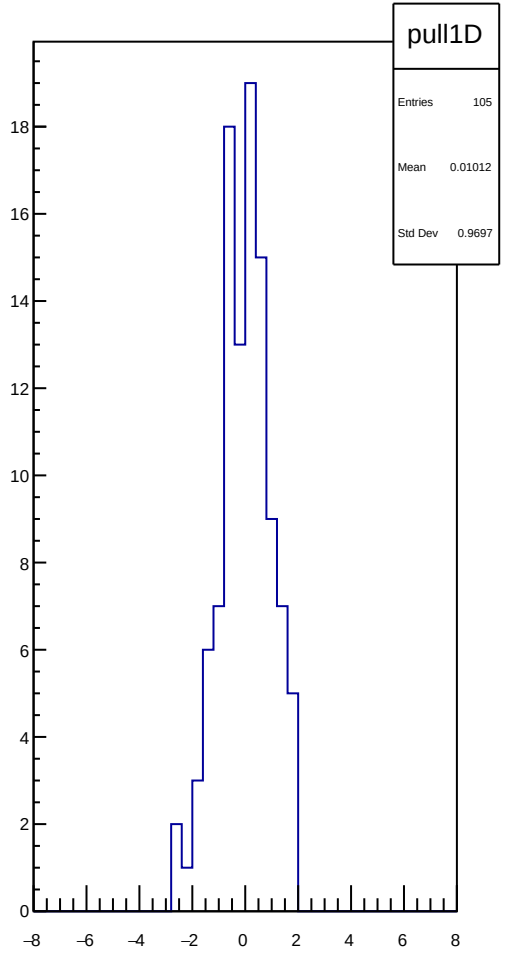

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 104.5 / 104
p0 −2.282 ± 0.6403
pull
Entries 105
Mean 136.7
Std Dev 106.5
pull1D
Entries 105
Mean −0.01723
Std Dev 0.9973

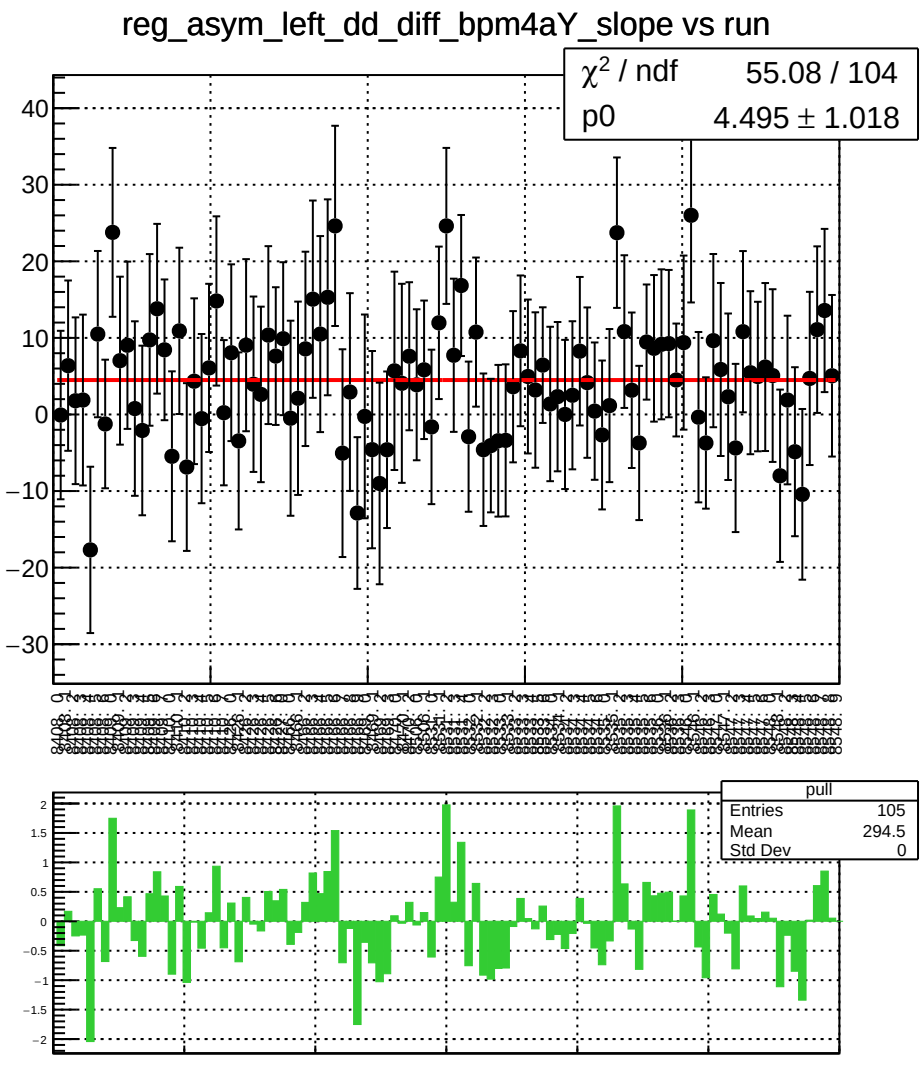

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 58.09 / 104
p0 6.553 ± 1.081
pull
Entries 105
Mean 100.5
Std Dev 75.67

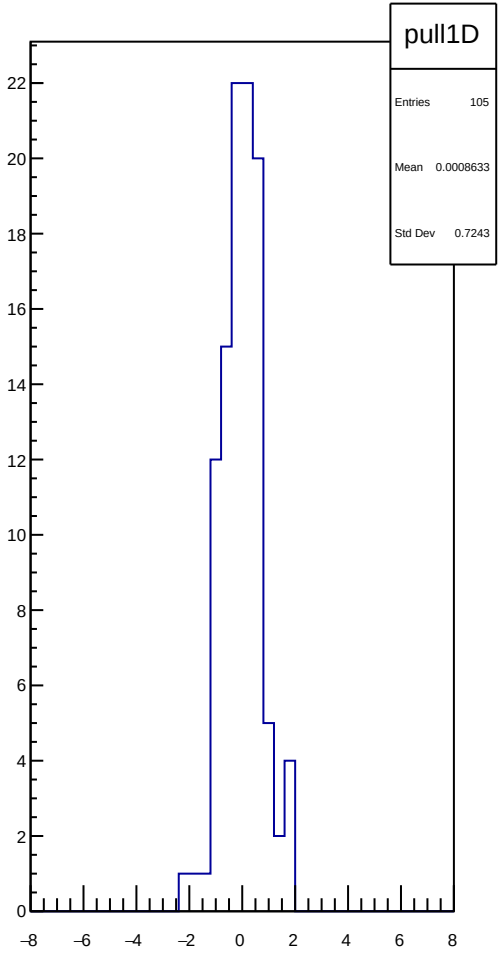

pull1D
Entries 105
Mean 0.0109
Std Dev 0.7437

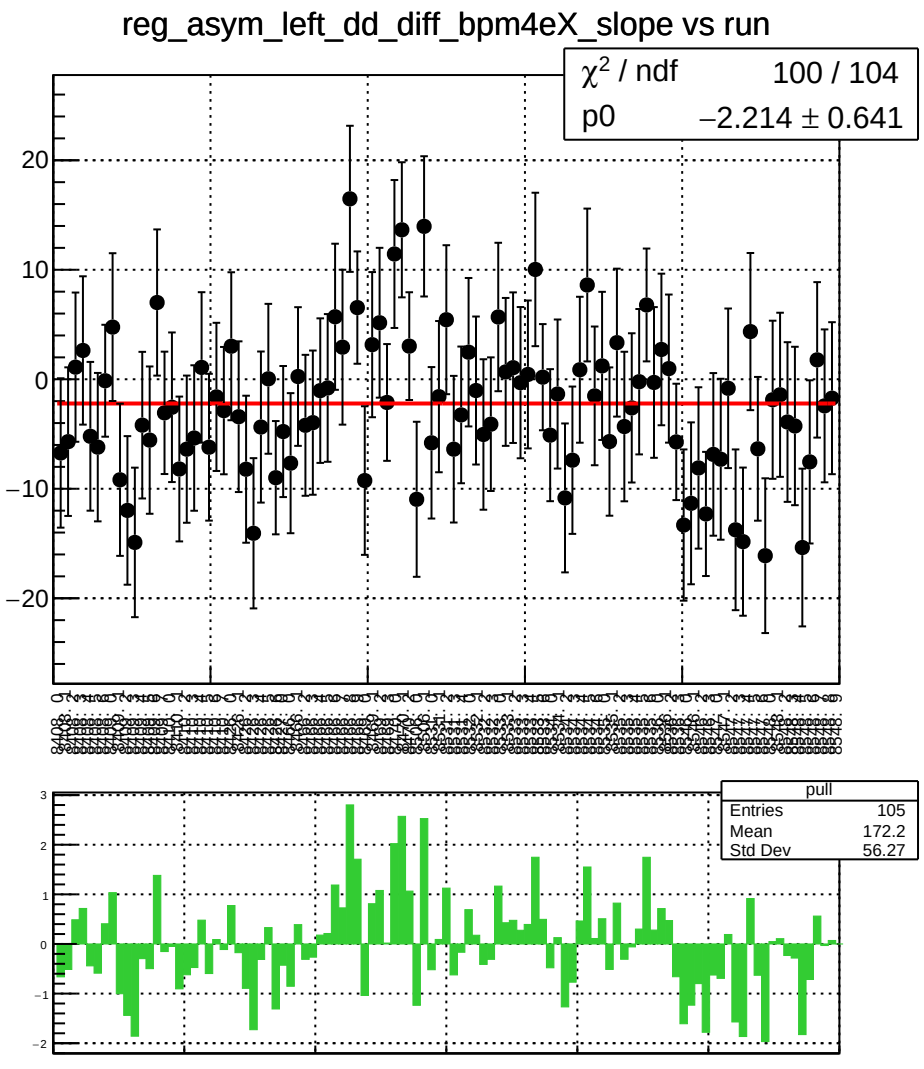

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 473.3 / 104
p0 −20.77 ± 0.06476
−18
−19
−20
−21
−22
−23
−24
−25
pull
Entries 105
Mean 607.1
Std Dev 0
4
2
0
−2
−4
pull1D
Entries 105
Mean −0.08234
Std Dev 2.121
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

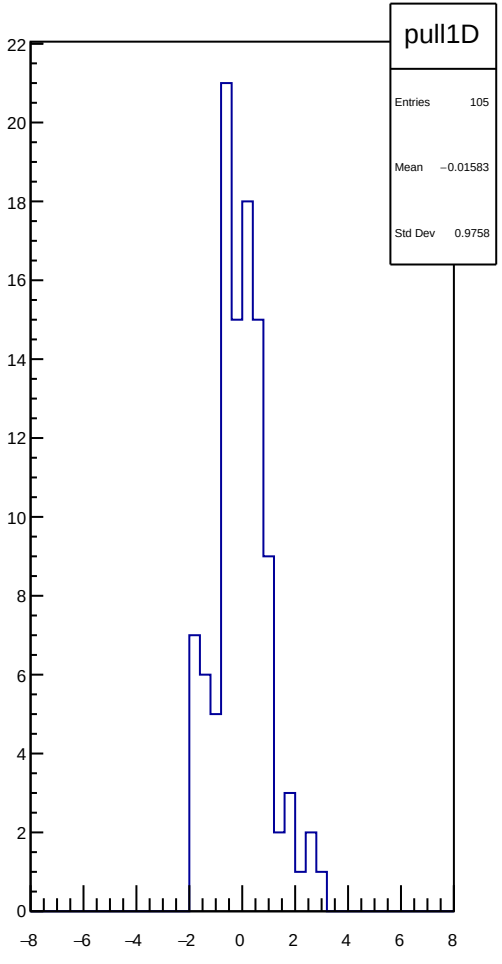

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 98.74 / 104
p0 −32.15 ± 0.5836
−10
−20
−30
−40
−50
pull
Entries 105
Mean −294.4
Std Dev 0
2
1
0
−1
−2

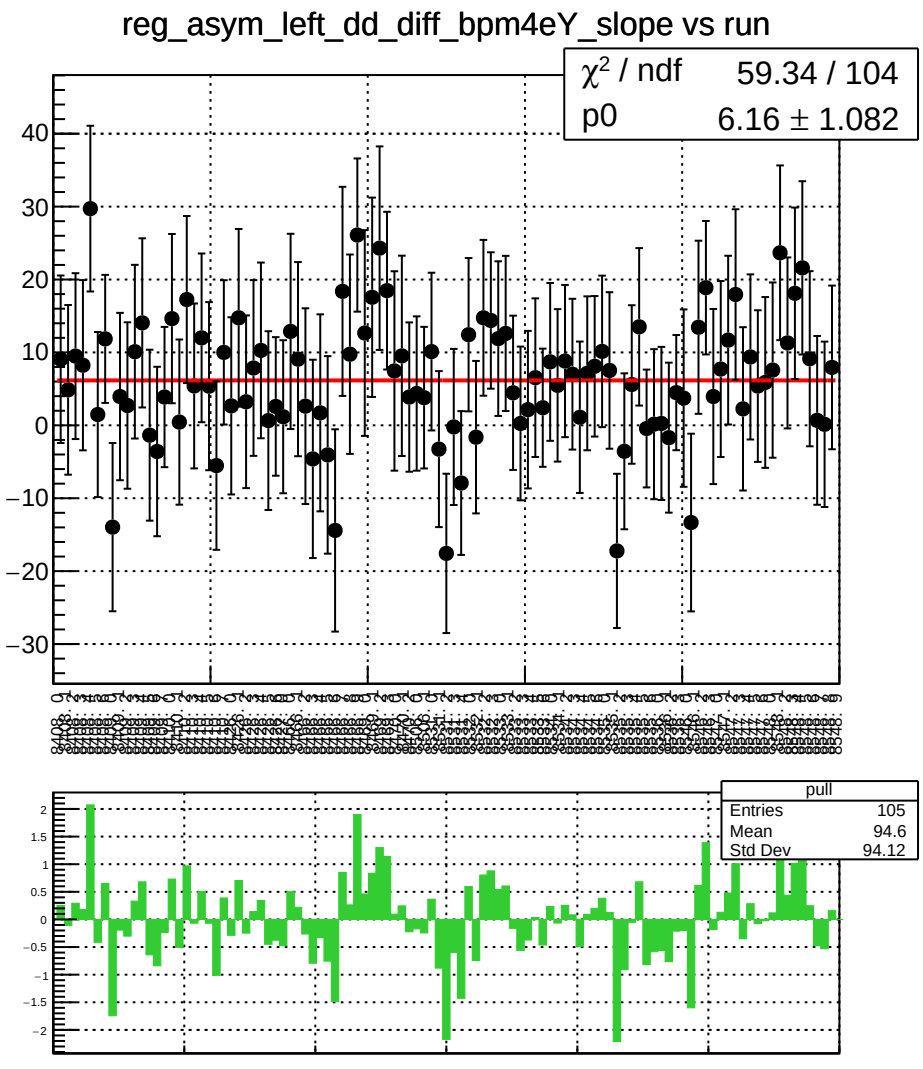

pull1D
Entries 105
Mean 0.01012
Std Dev 0.9697
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

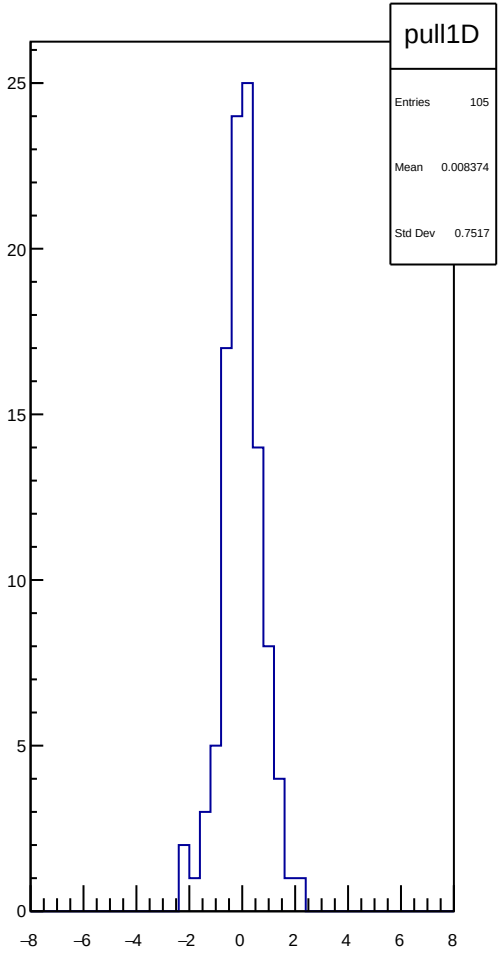

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 55.08 / 104
p0 4.495 ± 1.018
pull
Entries 105
Mean 294.5
Std Dev 0

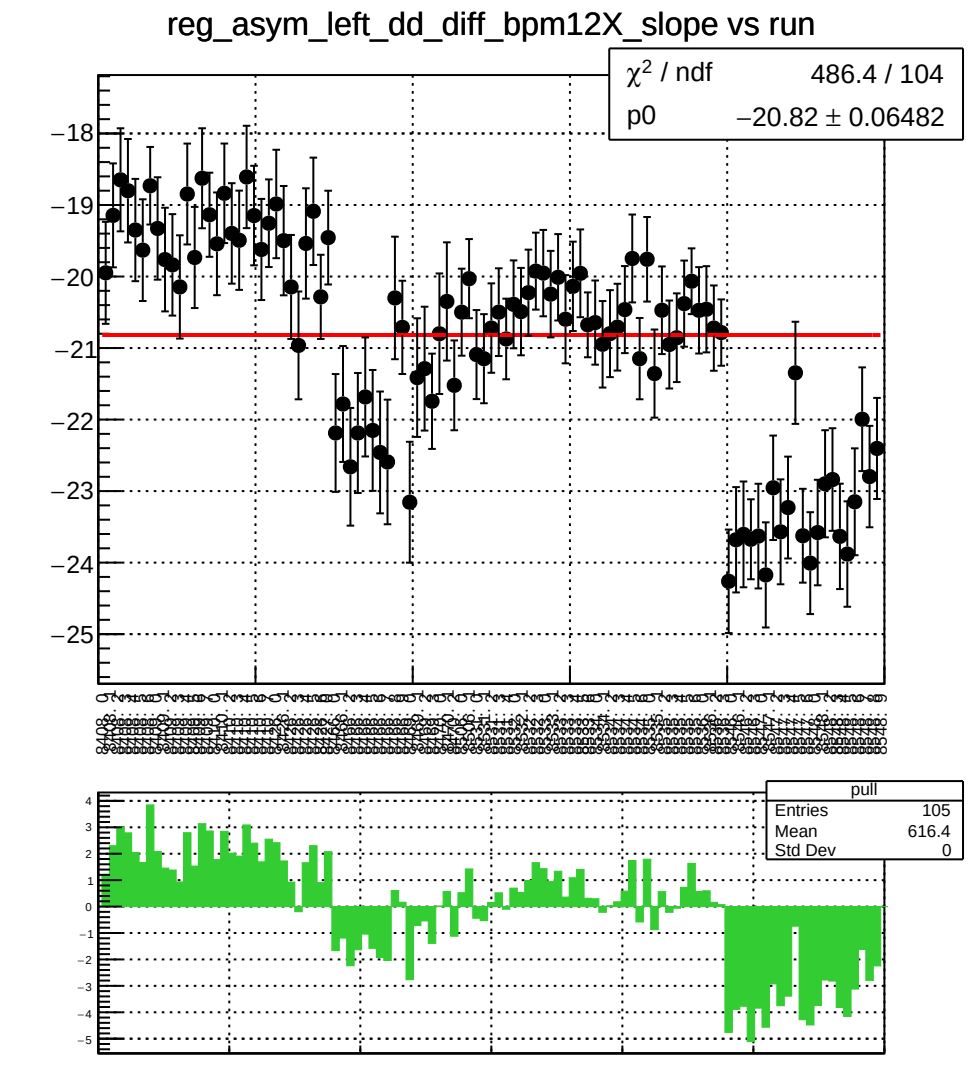

pull1D
Entries 105
Mean 0.0008633
Std Dev 0.7243

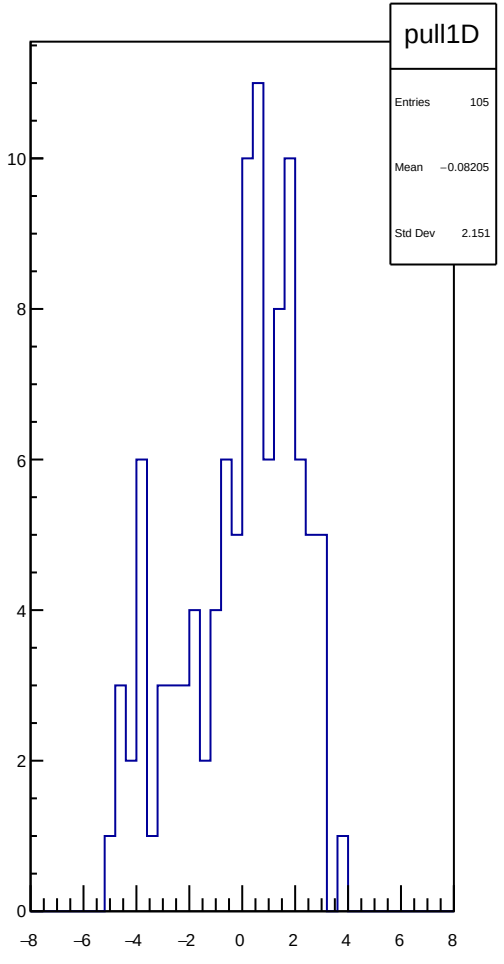

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 100 / 104
p0 −2.214 ± 0.641
pull
Entries 105
Mean 172.2
Std Dev 56.27

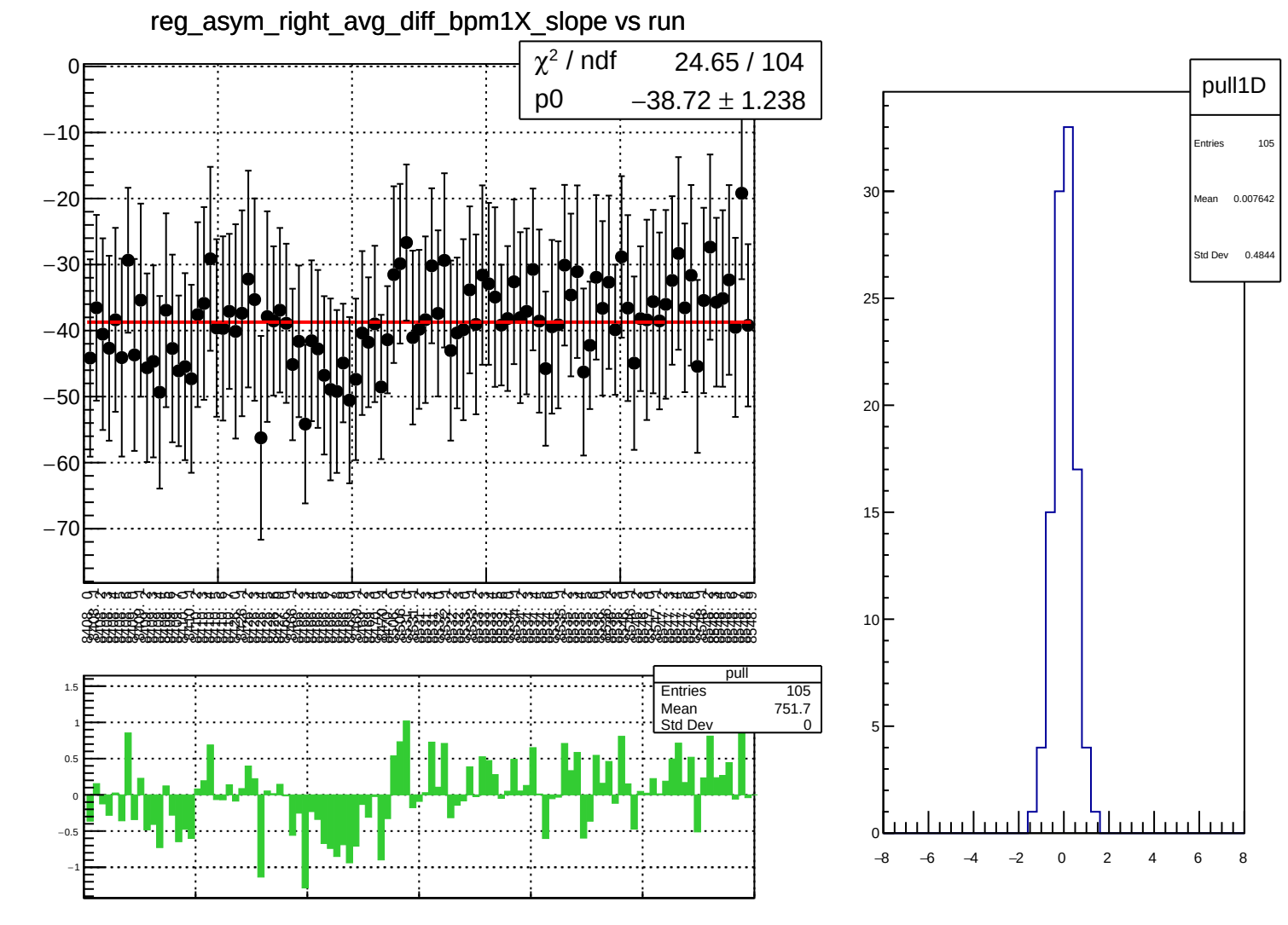

pull1D
Entries 105
Mean −0.01583
Std Dev 0.9758

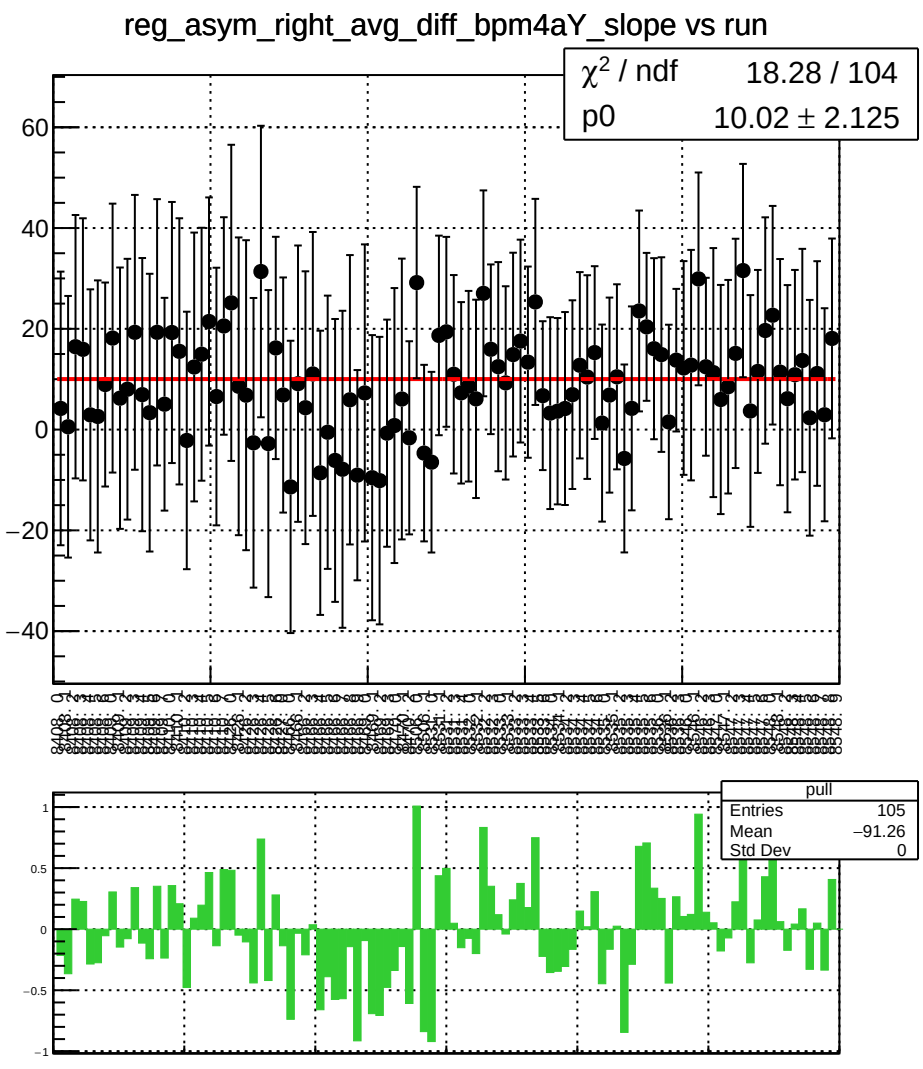

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 59.34 / 104
p0 6.16 ± 1.082
pull
Entries 105
Mean 94.6
Std Dev 94.12

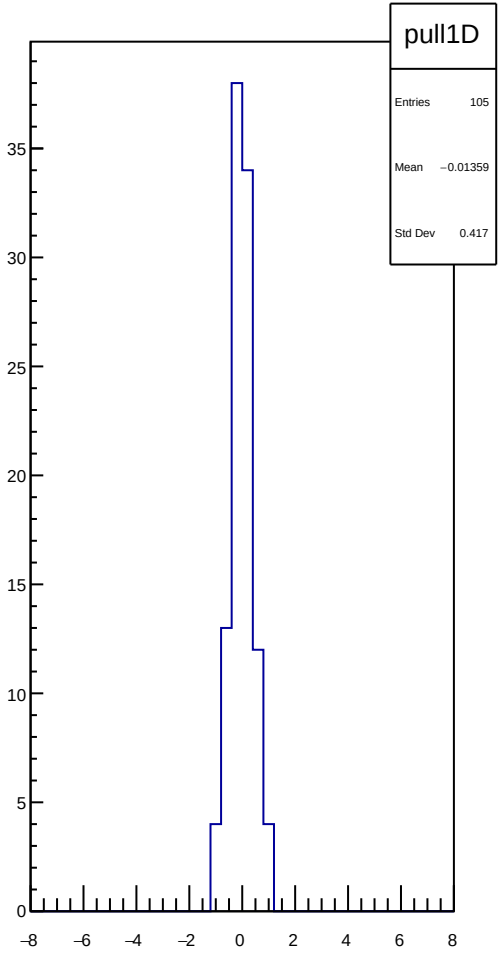

pull1D
Entries 105
Mean 0.008374
Std Dev 0.7517

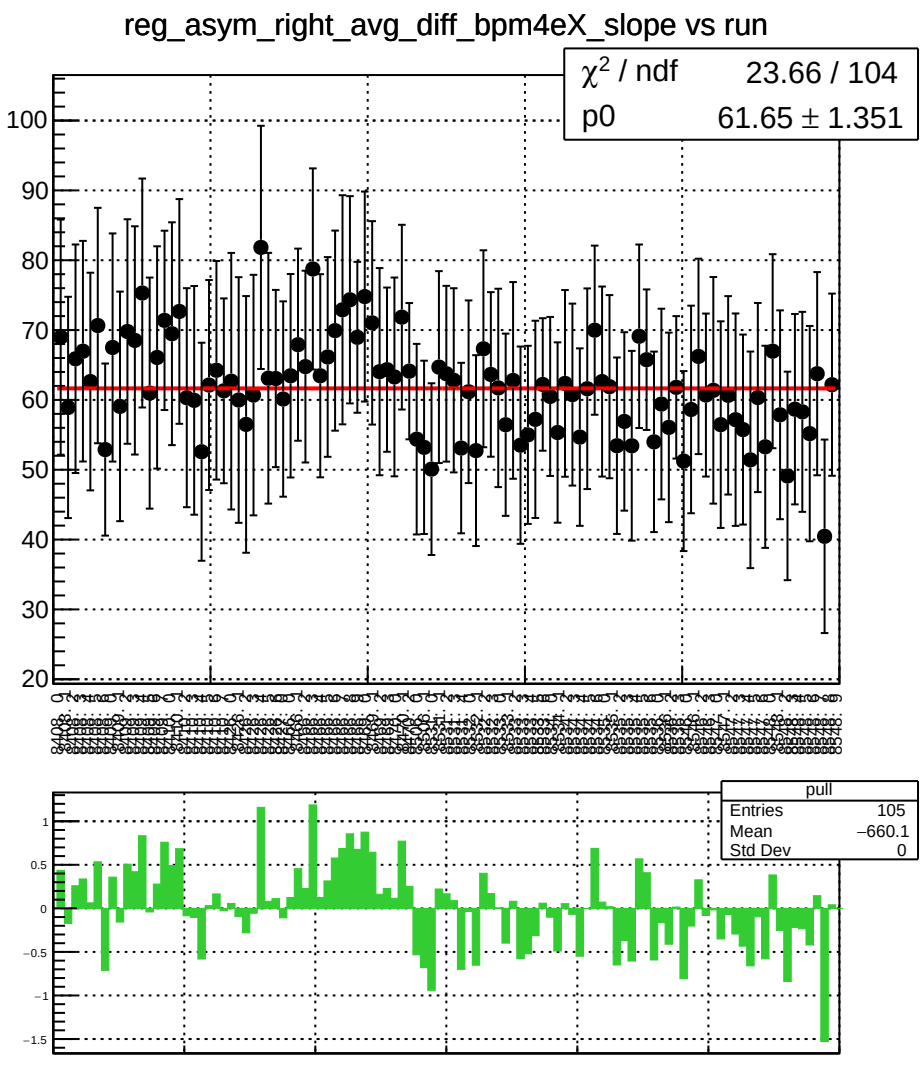

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 486.4 / 104
p0 −20.82 ± 0.06482
pull
Entries 105
Mean 616.4
Std Dev 0

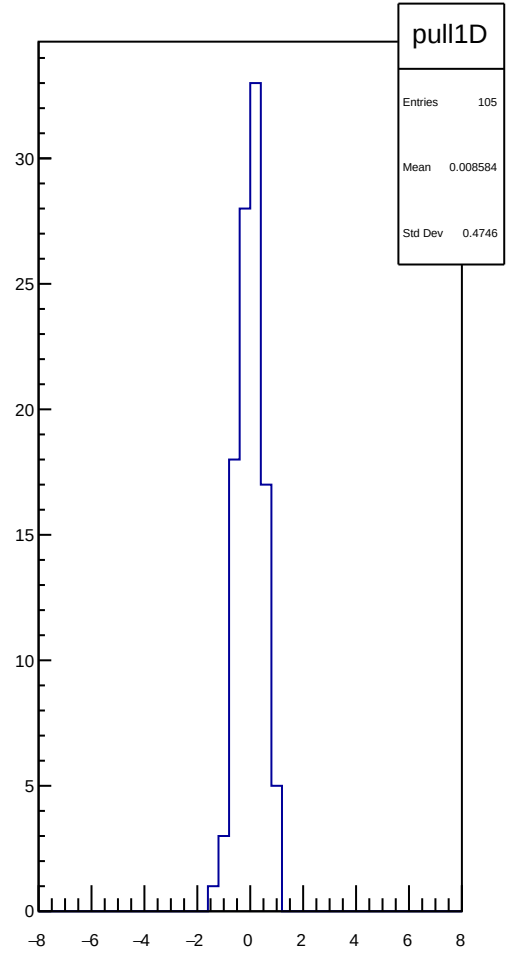

pull1D
Entries 105
Mean −0.08205
Std Dev 2.151

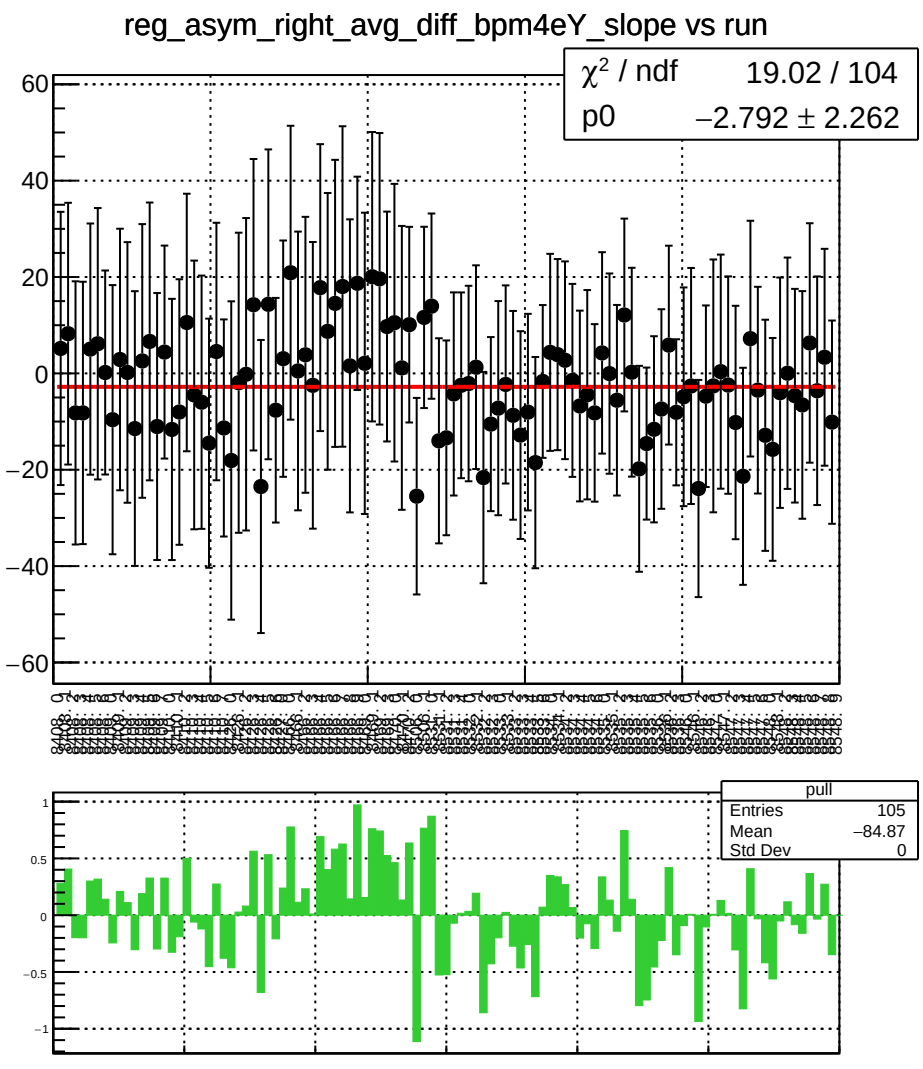

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 24.65 / 104
p0 −38.72 ± 1.238
pull
Entries 105
Mean 751.7
Std Dev 0
pull1D
Entries 105
Mean 0.007642
Std Dev 0.4844

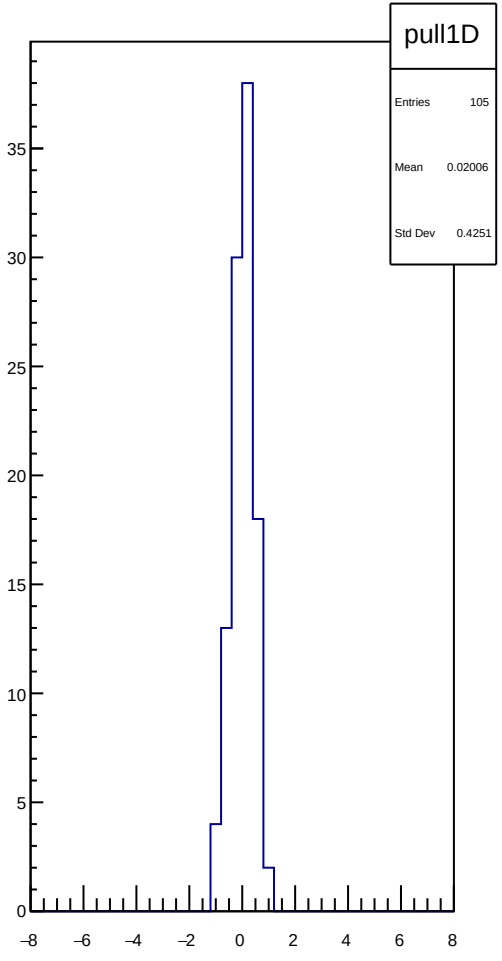

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 18.28 / 104
p0 10.02 ± 2.125
60
40
20
0
−20
−40
pull
Entries 105
Mean −91.26
Std Dev 0
1
0.5
0
−0.5
−1

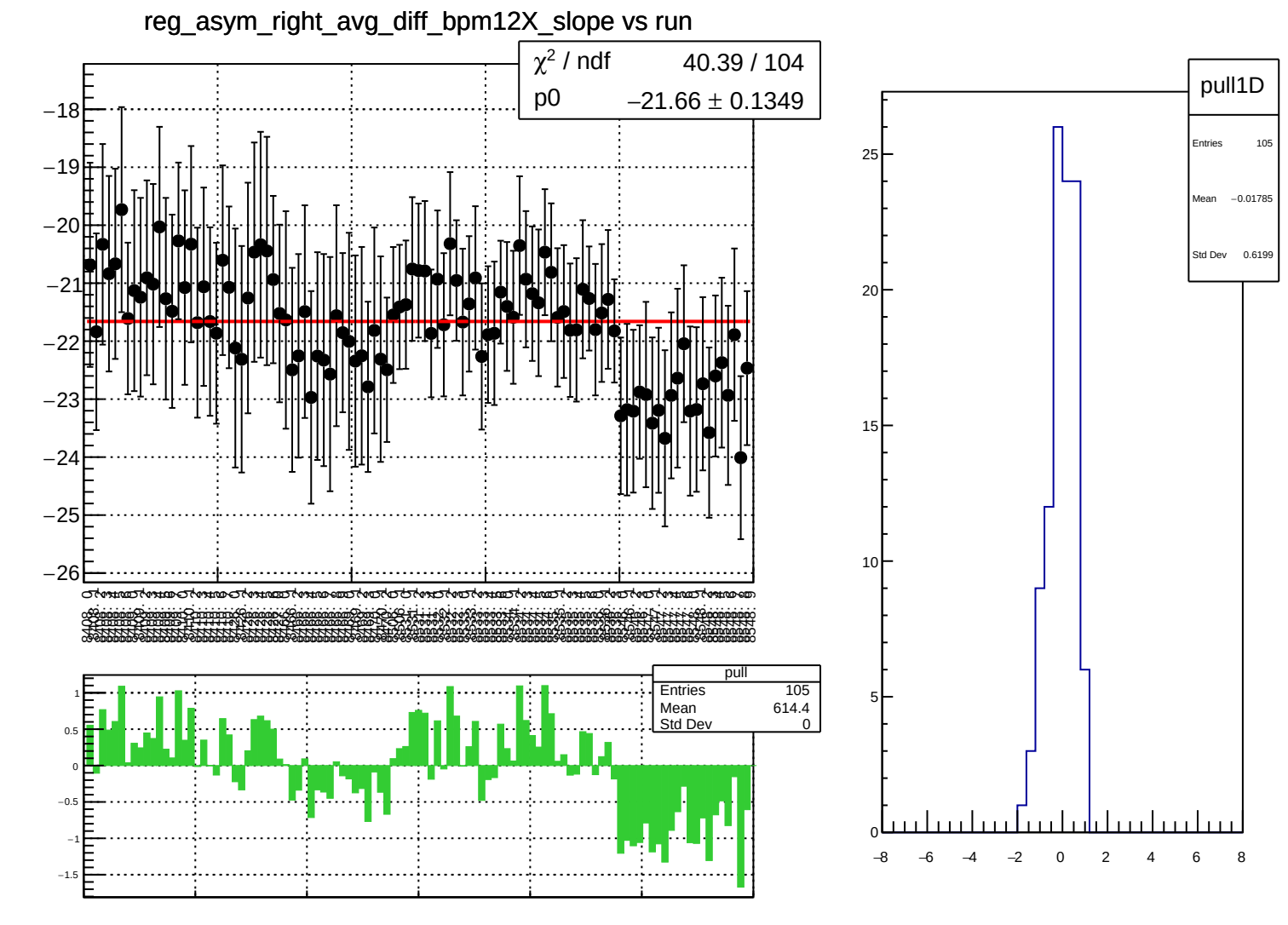

pull1D
Entries 105
Mean −0.01359
Std Dev 0.417
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

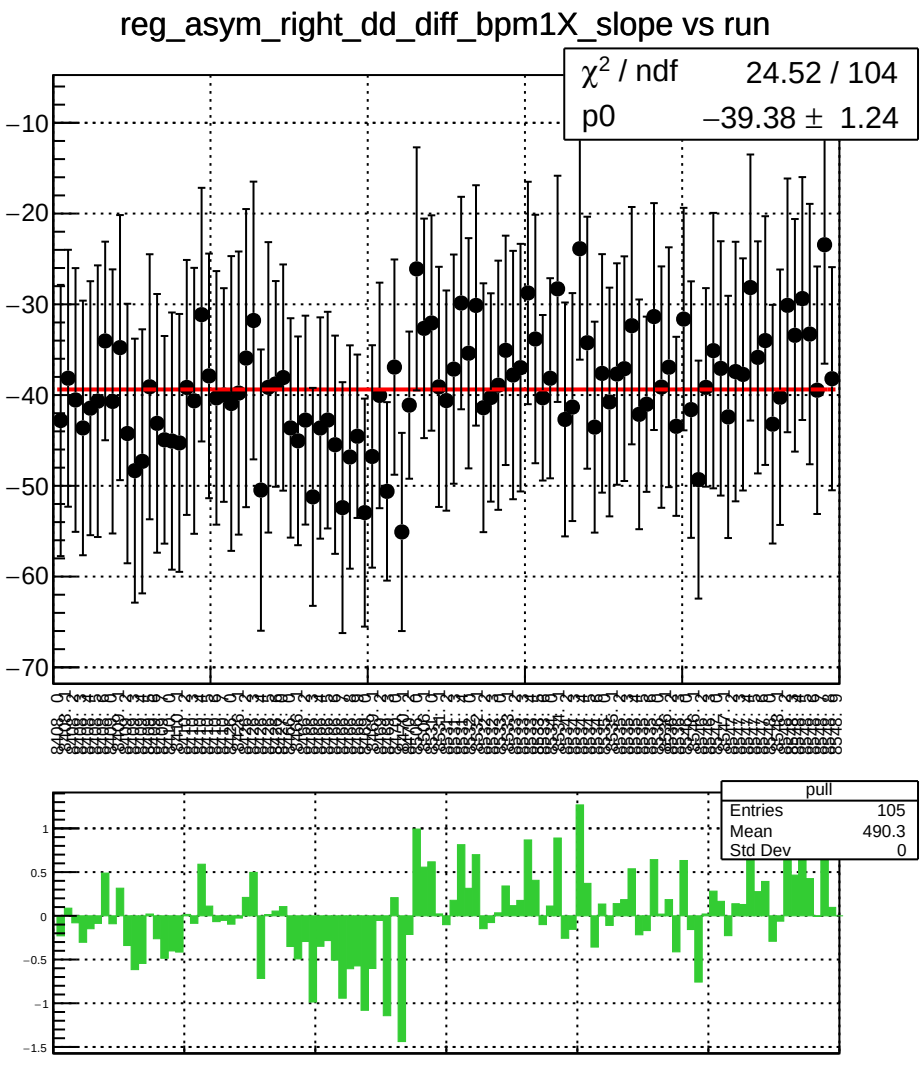

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 23.66 / 104
p0 61.65 ± 1.351
pull
Entries 105
Mean −660.1
Std Dev 0

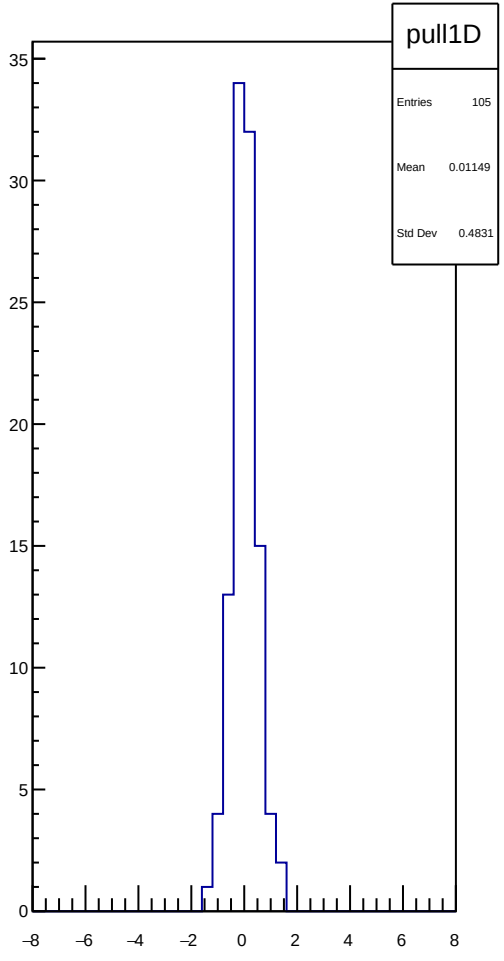

pull1D
Entries 105
Mean 0.008584
Std Dev 0.4746

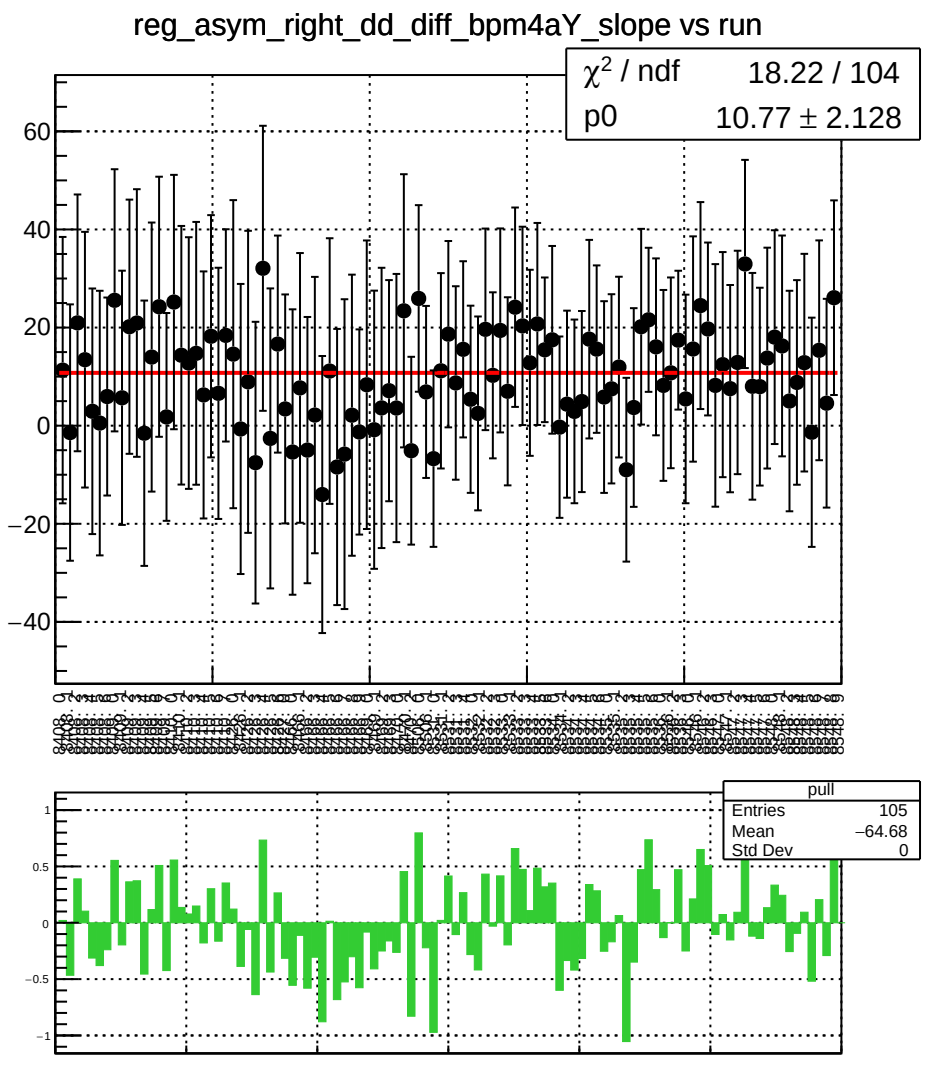

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 19.02 / 104
p0 −2.792 ± 2.262
pull
Entries 105
Mean −84.87
Std Dev 0

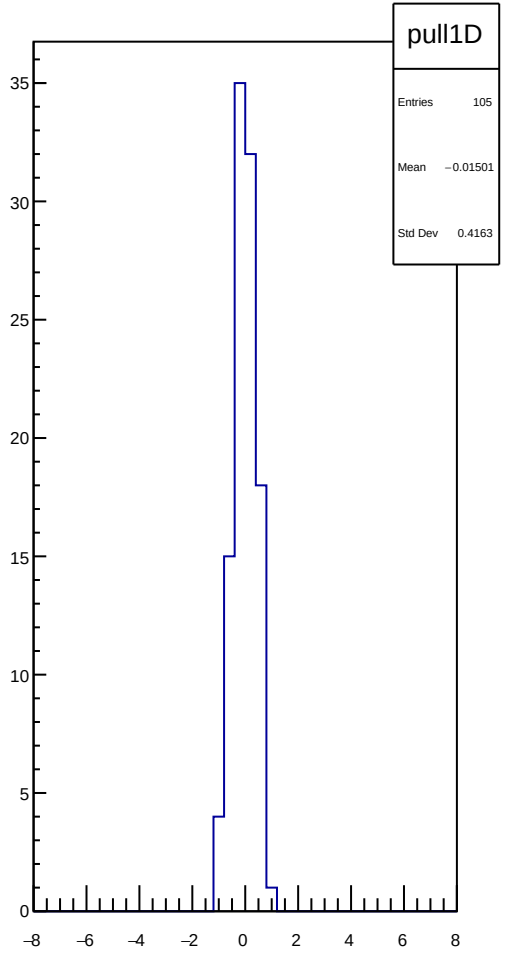

pull1D
Entries 105
Mean 0.02006
Std Dev 0.4251

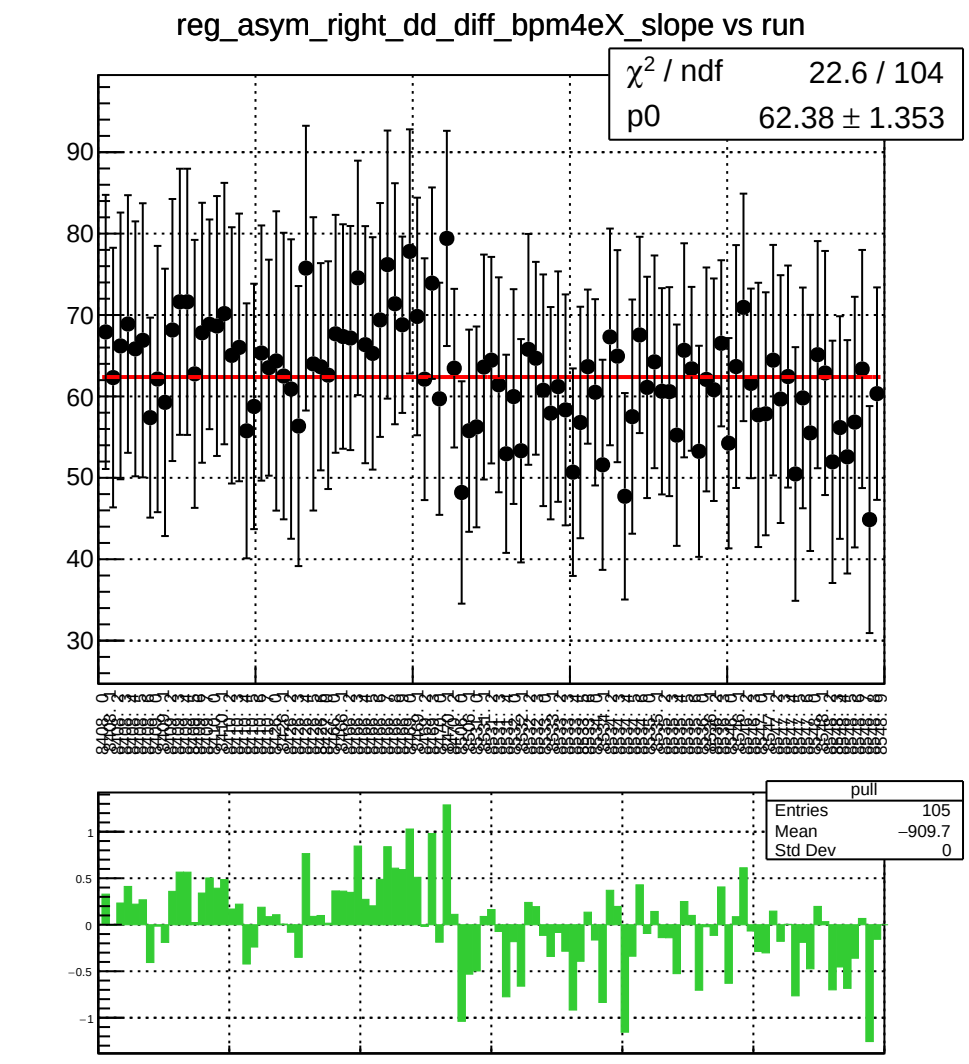

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 40.39 / 104
p0 −21.66 ± 0.1349
pull
Entries 105
Mean 614.4
Std Dev 0
pull1D
Entries 105
Mean −0.01785
Std Dev 0.6199

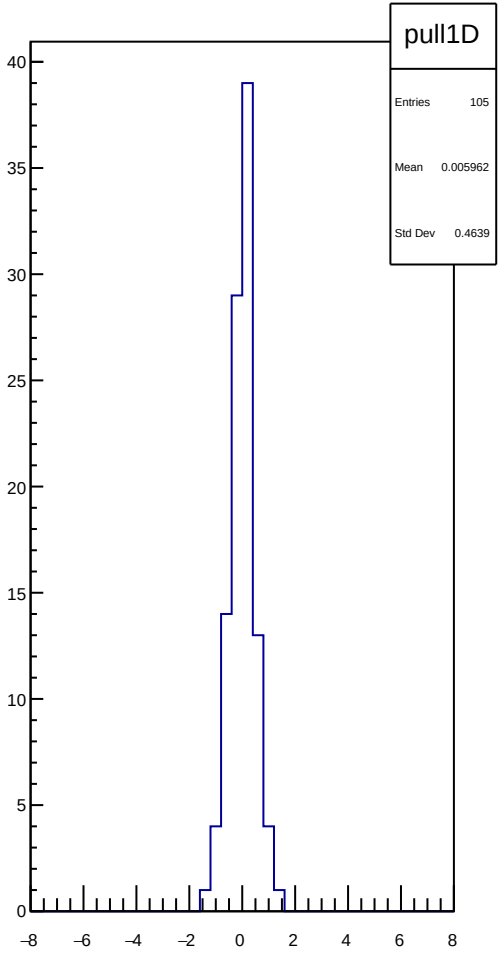

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 24.52 / 104
p0 −39.38 ± 1.24
−10
−20
−30
−40
−50
−60
−70
pull
Entries 105
Mean 490.3
Std Dev 0
1
0.5
0
−0.5
−1
−1.5

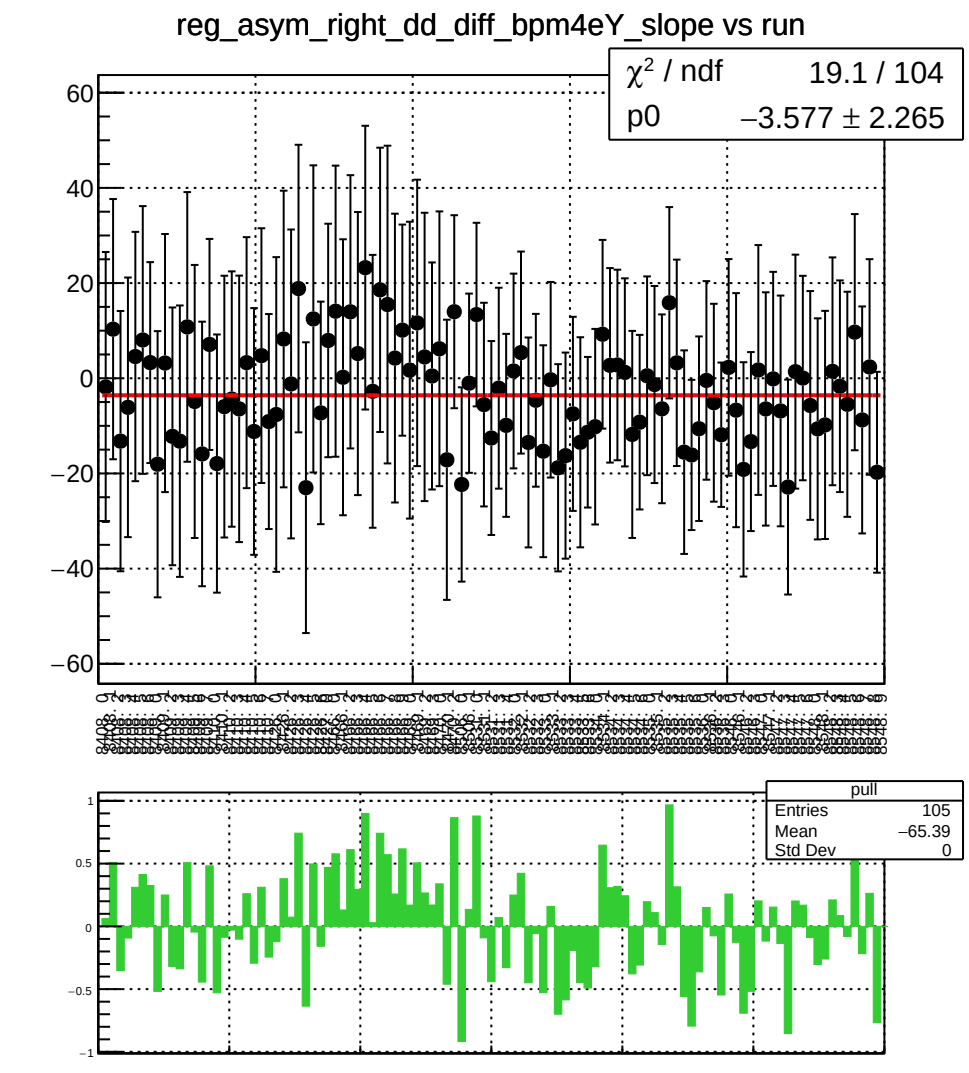

pull1D
Entries 105
Mean 0.01149
Std Dev 0.4831
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

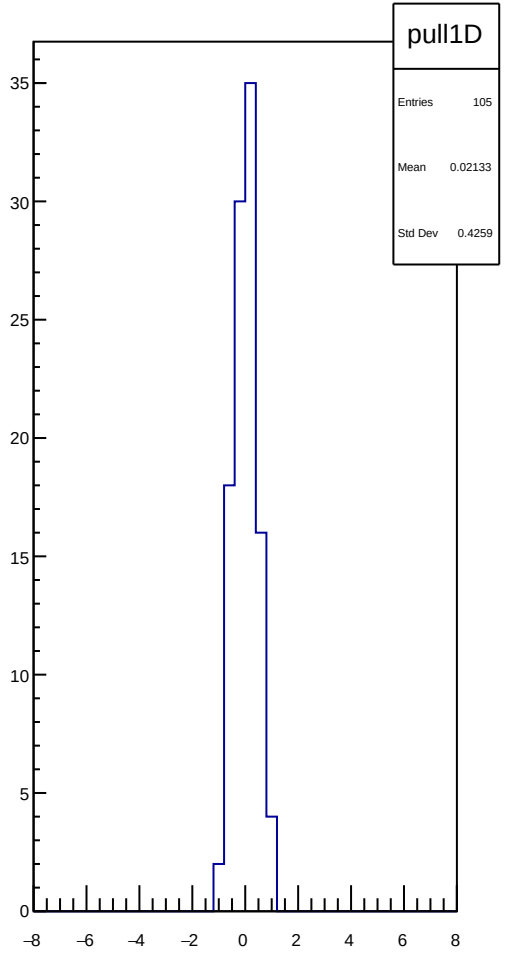

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 18.22 / 104
p0 10.77 ± 2.128
60
40
20
0
−20
−40
pull
Entries 105
Mean −64.68
Std Dev 0
1
0.5
0
−0.5
−1

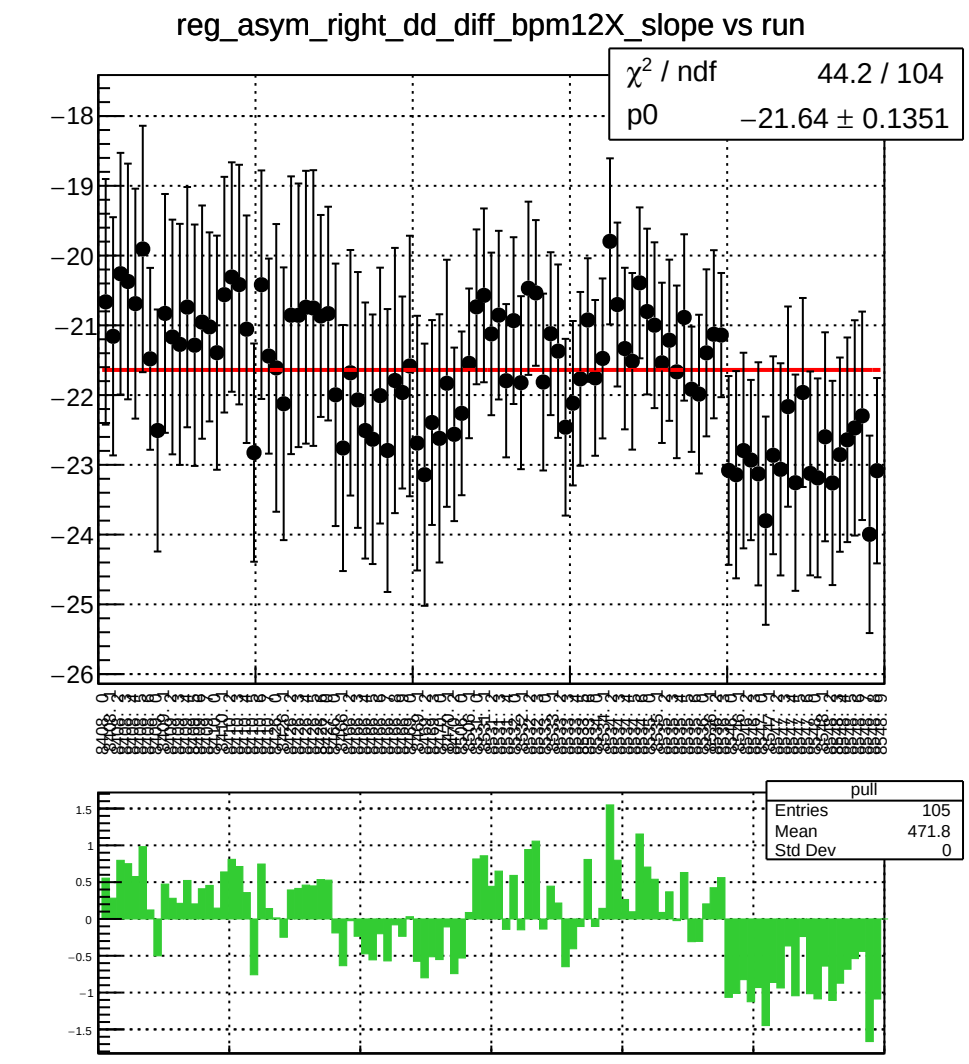

pull1D
Entries 105
Mean −0.01501
Std Dev 0.4163
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

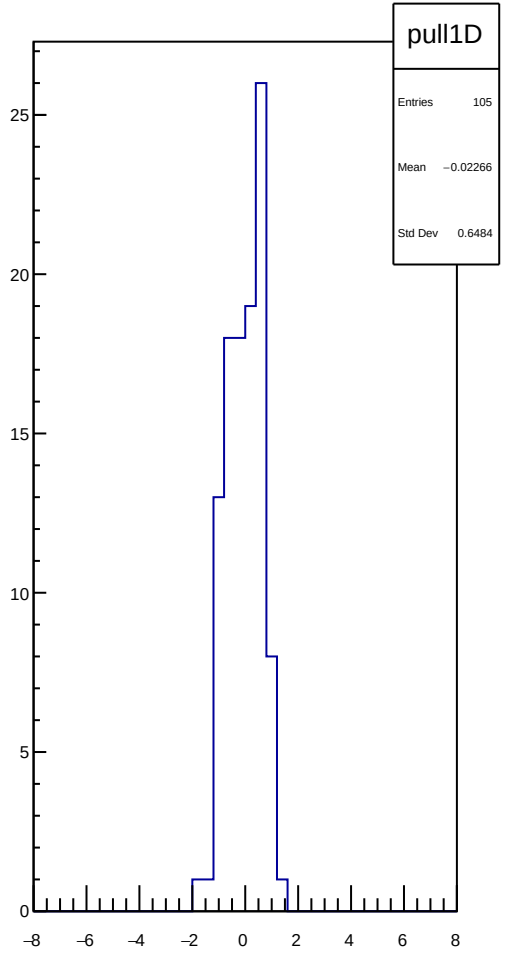

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 22.6 / 104
p0 62.38 ± 1.353
90
80
70
60
50
40
30
pull
Entries 105
Mean –909.7
Std Dev 0
1
0.5
0
–0.5
–1

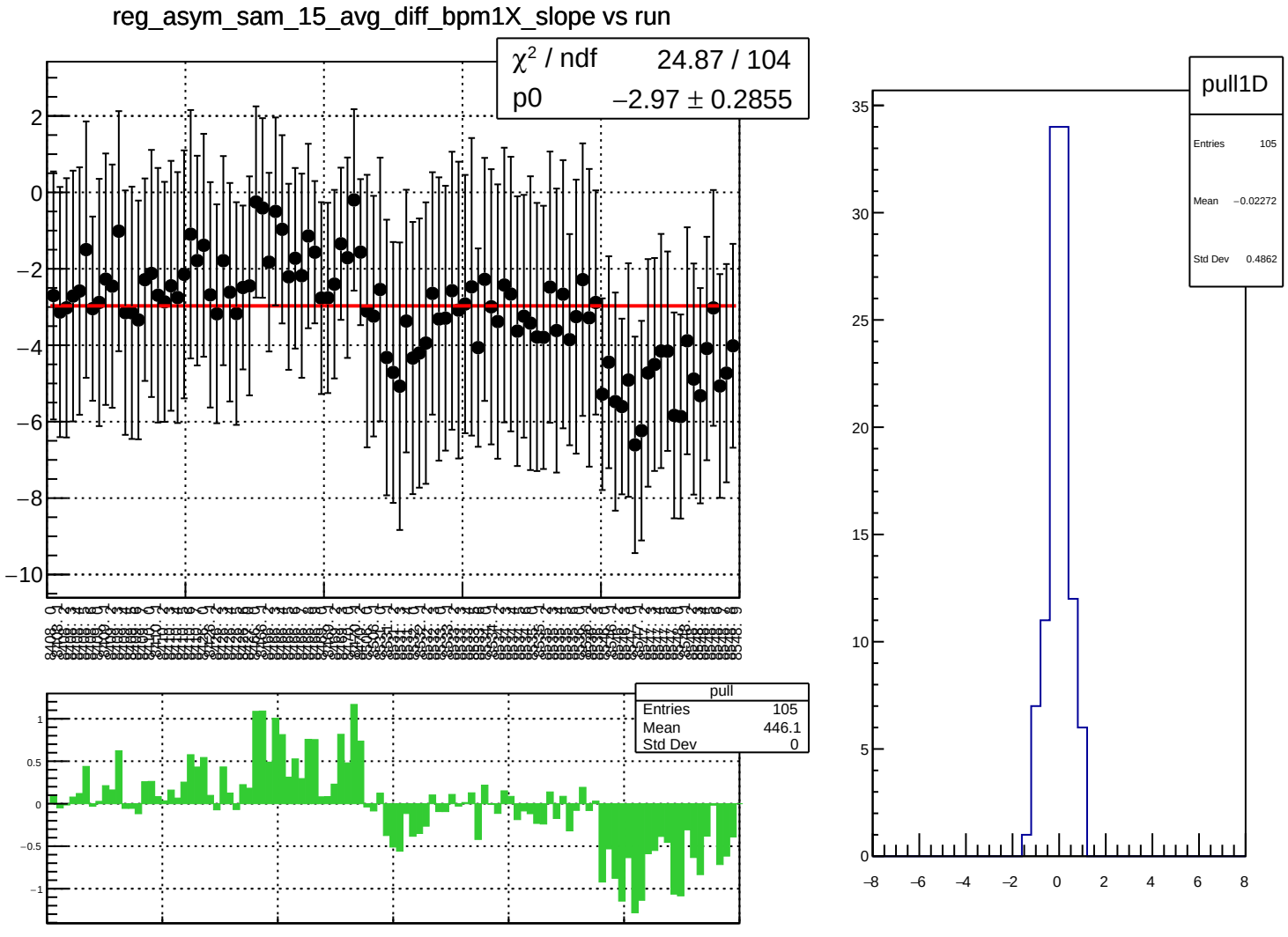

pull1D
Entries 105
Mean 0.005962
Std Dev 0.4639
40
35
30
25
20
15
10
5
0
–8
–6
–4
–2
0
2
4
6
8

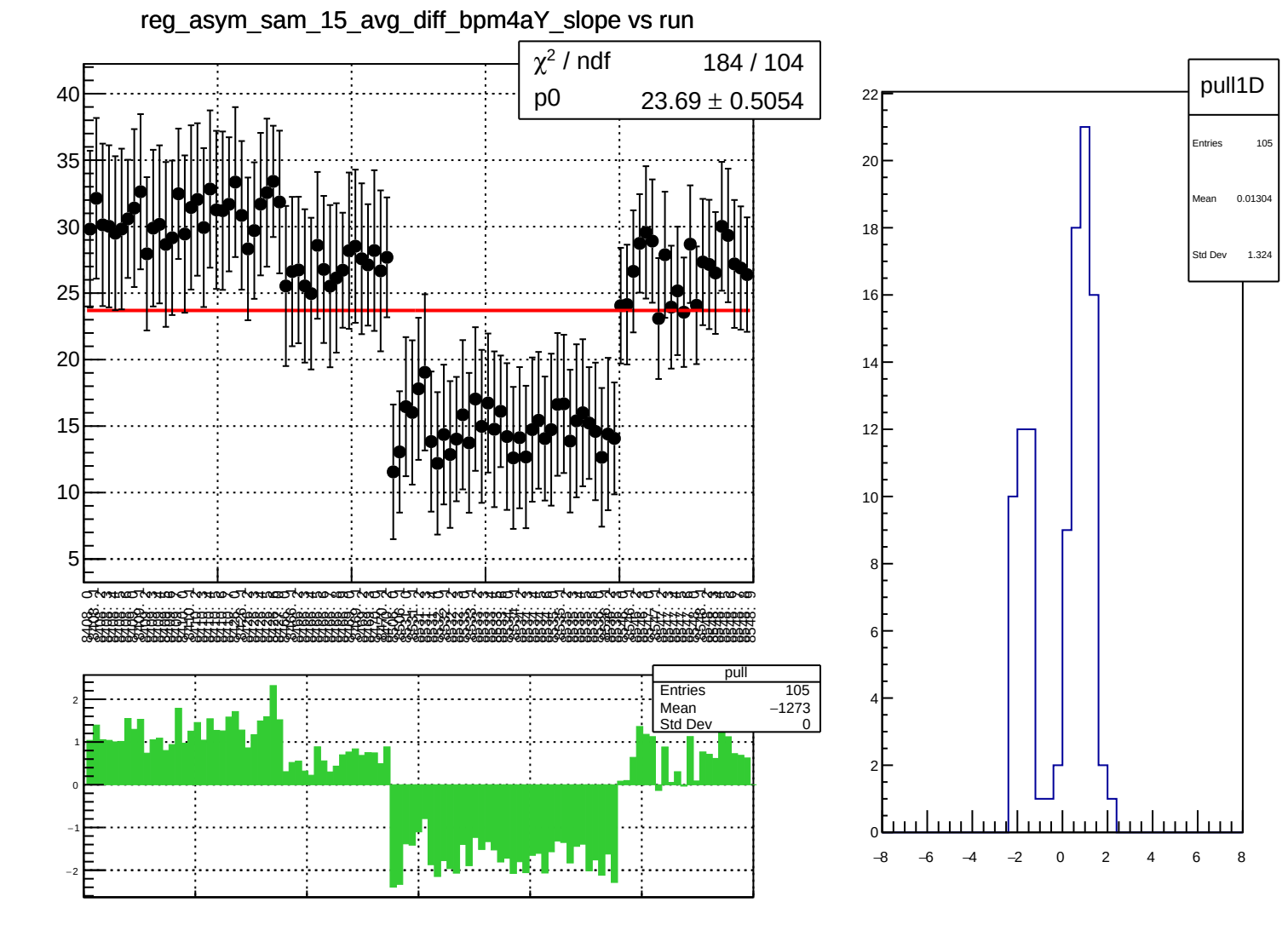

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 19.1 / 104
p0 −3.577 ± 2.265
60
40
20
0
−20
−40
−60
pull
Entries 105
Mean −65.39
Std Dev 0
1
0.5
0
−0.5
−1

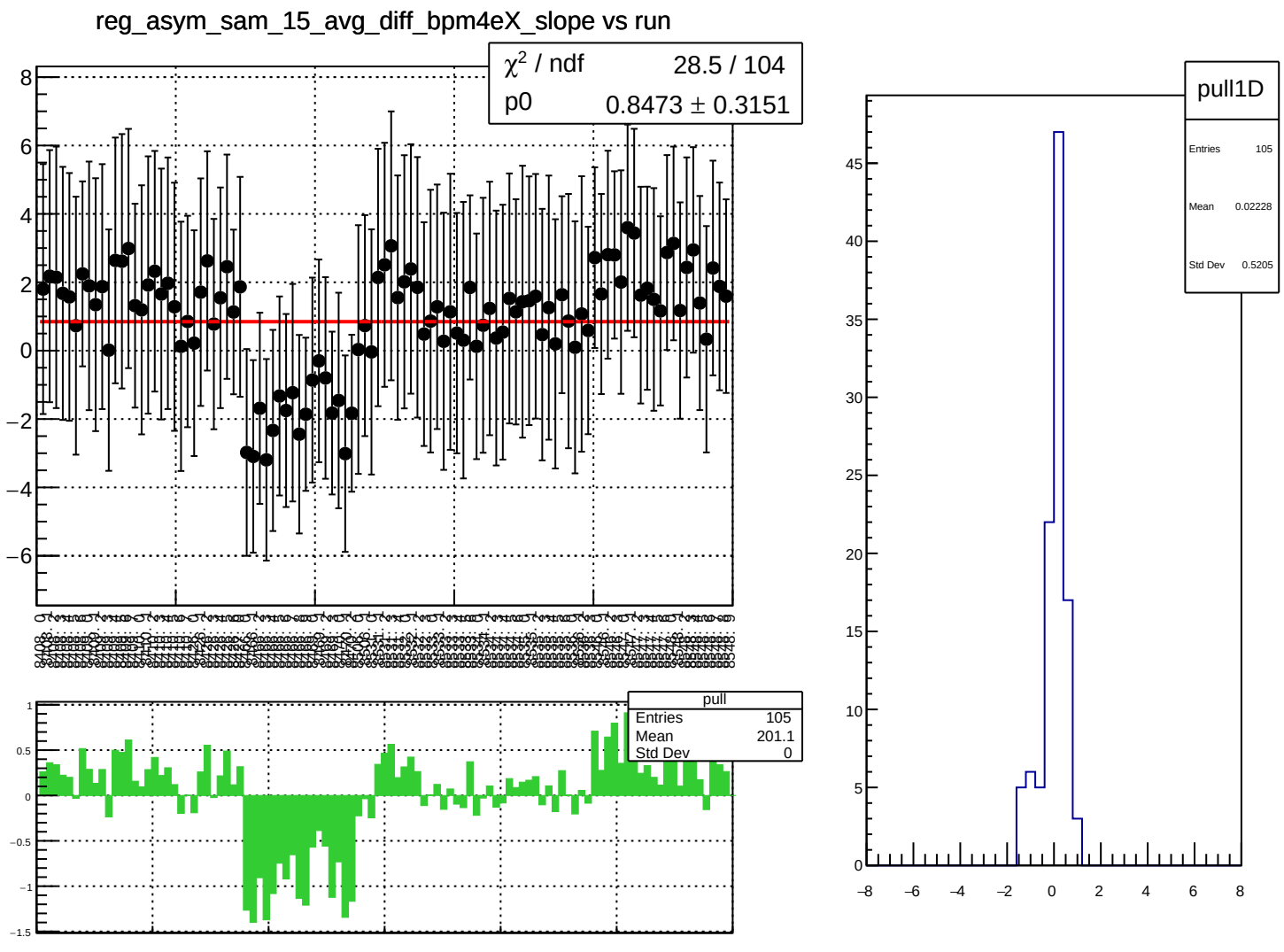

pull1D
Entries 105
Mean 0.02133
Std Dev 0.4259
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

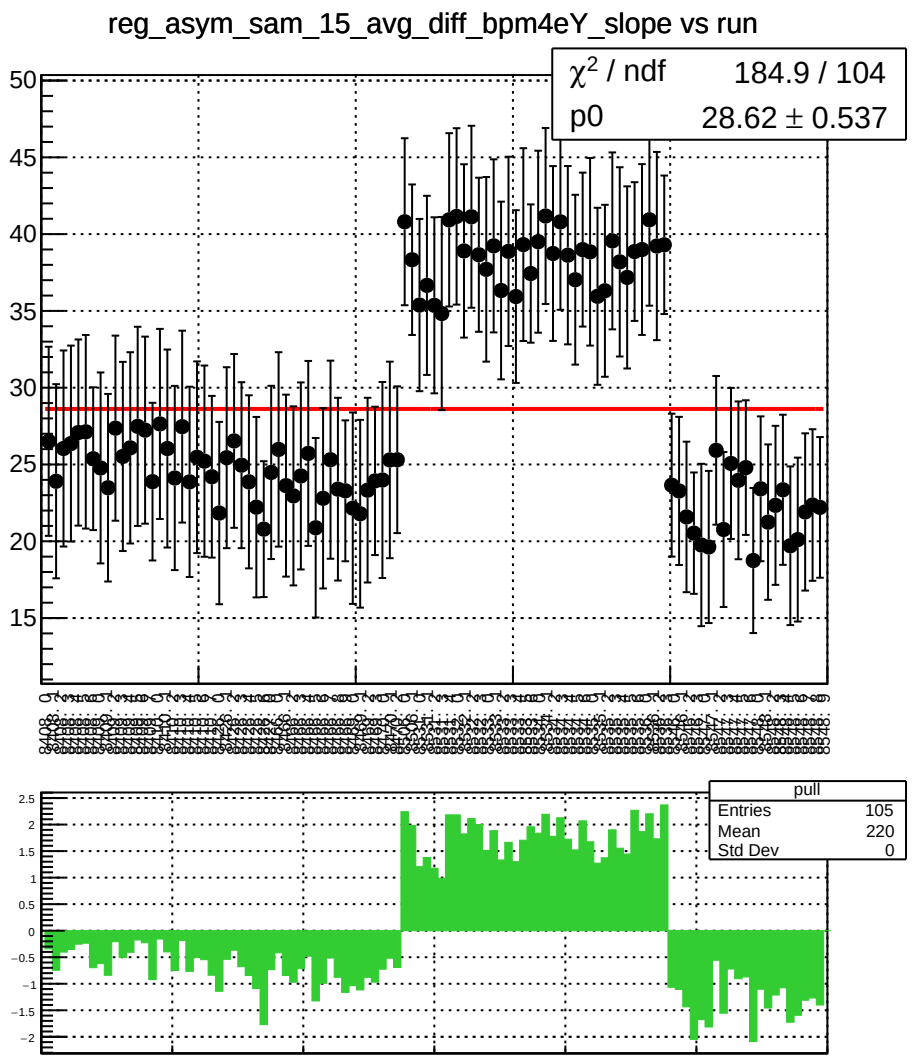

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 44.2 / 104
p0 −21.64 ± 0.1351
−18
−19
−20
−21
−22
−23
−24
−25
−26
pull
Entries 105
Mean 471.8
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

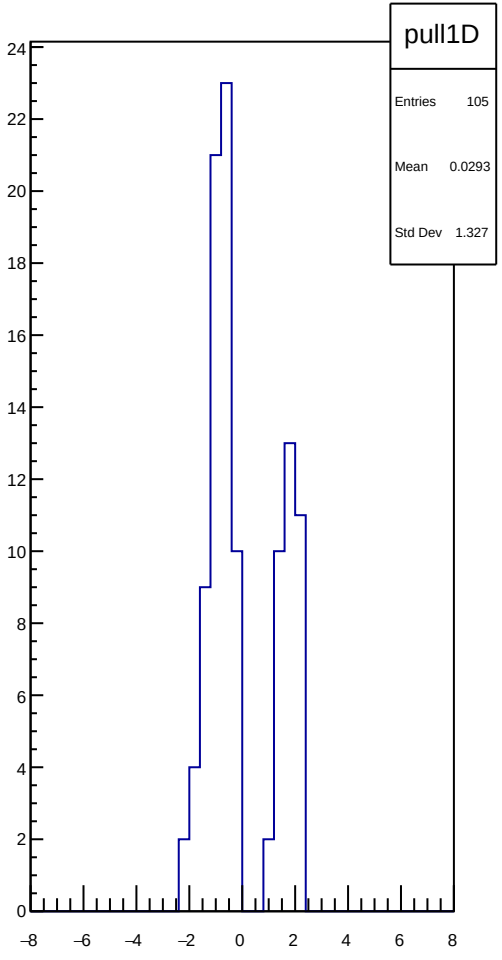

pull1D
Entries 105
Mean −0.02266
Std Dev 0.6484
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

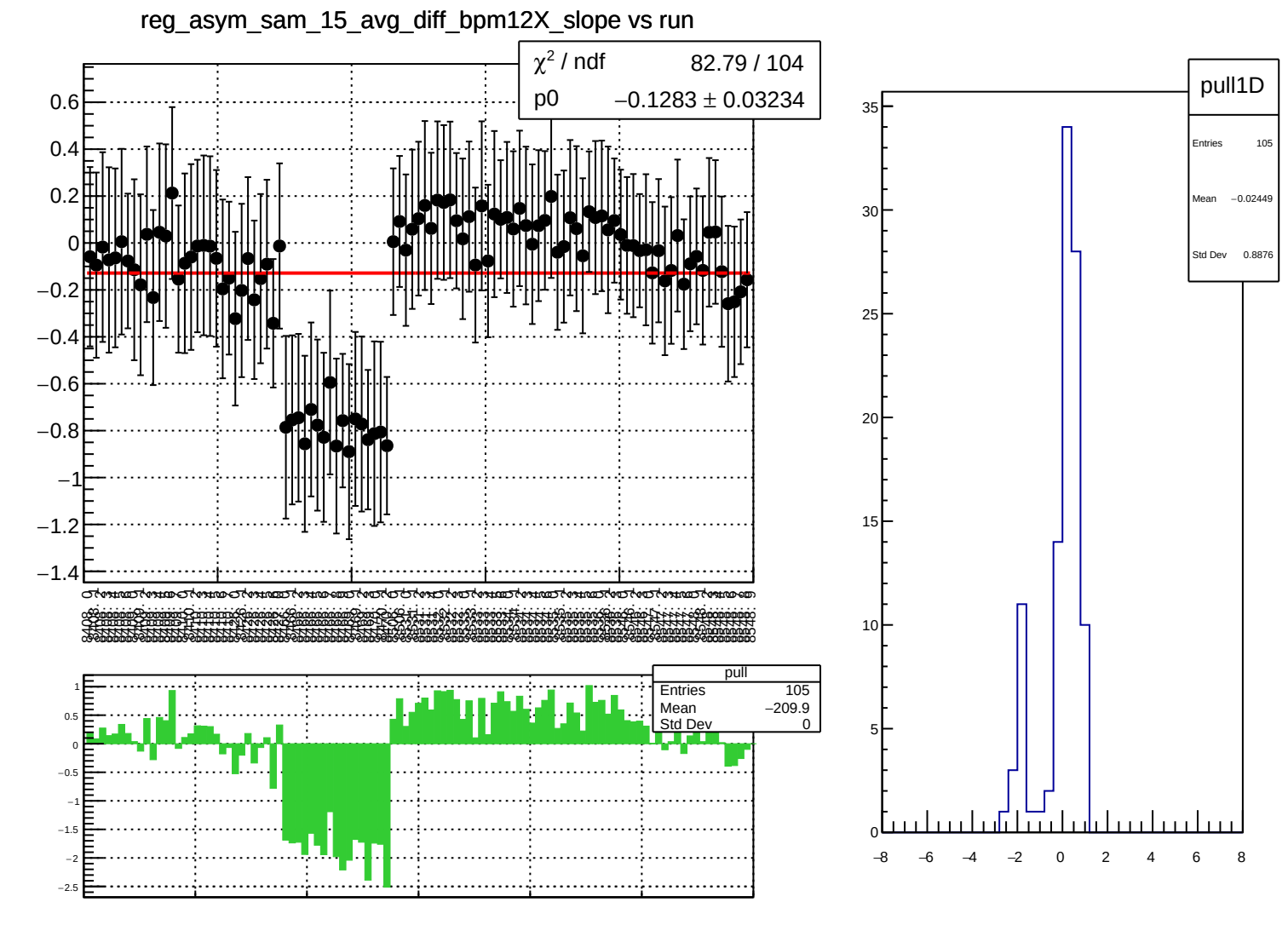

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 24.87 / 104
p0 −2.97 ± 0.2855
pull
Entries 105
Mean 446.1
Std Dev 0
pull1D
Entries 105
Mean −0.02272
Std Dev 0.4862

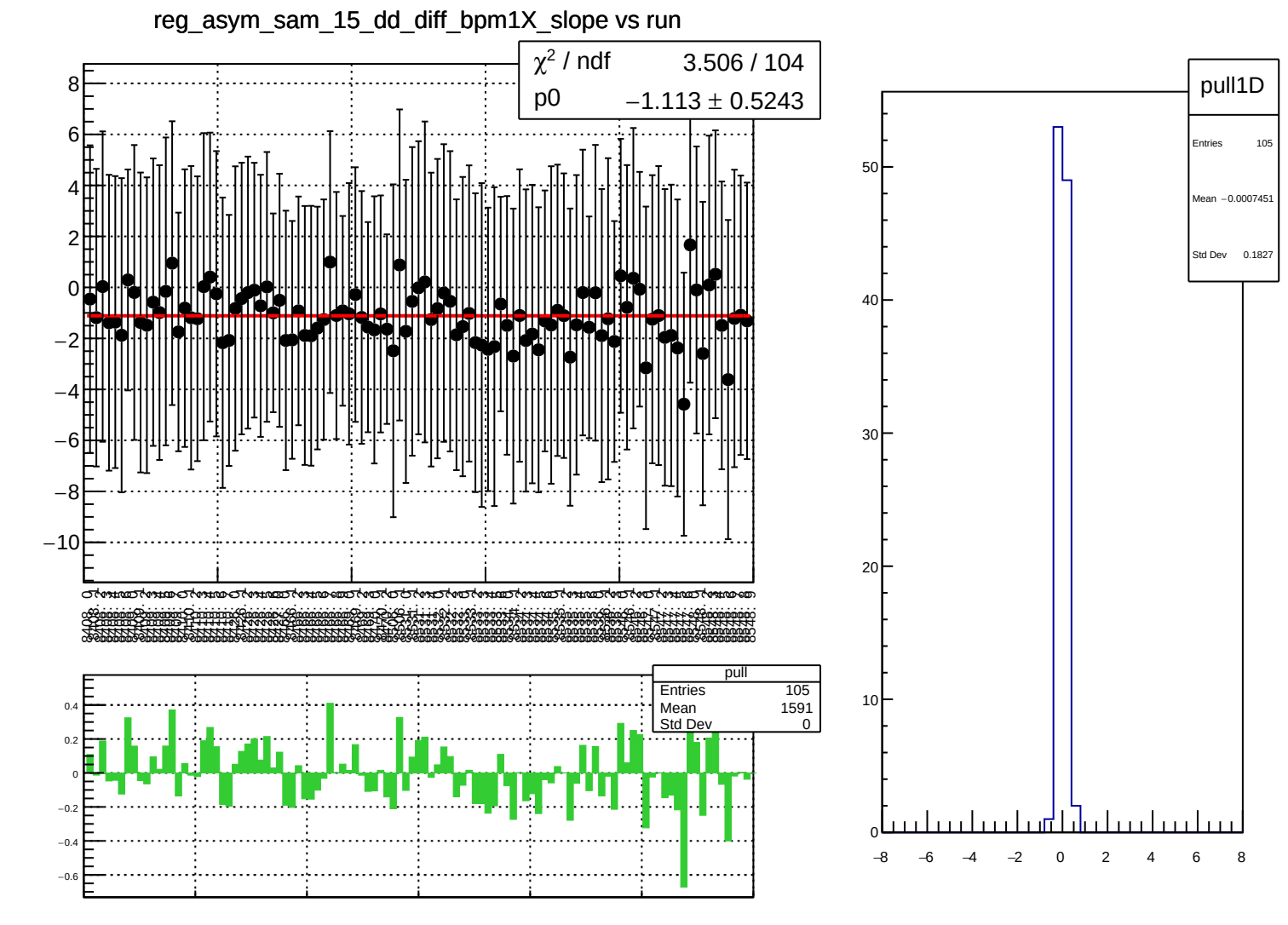

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 184 / 104
p0 23.69 ± 0.5054
pull
Entries 105
Mean −1273
Std Dev 0
pull1D
Entries 105
Mean 0.01304
Std Dev 1.324

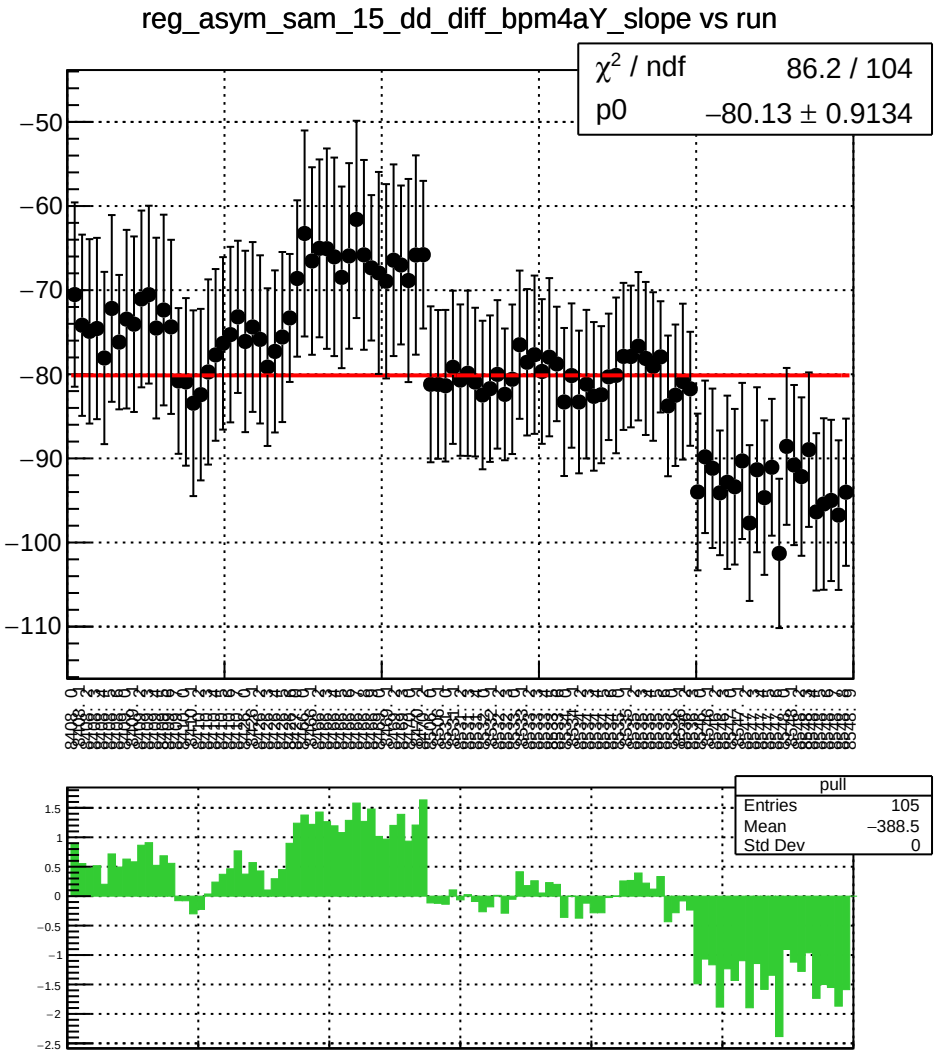

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 28.5 / 104
p0 0.8473 ± 0.3151
pull
Entries 105
Mean 201.1
Std Dev 0
pull1D
Entries 105
Mean 0.02228
Std Dev 0.5205

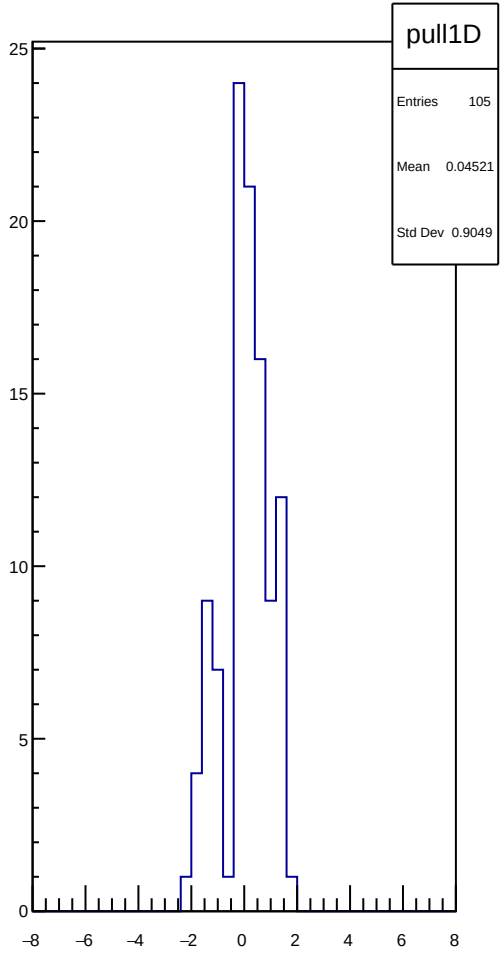

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 184.9 / 104
p0 28.62 ± 0.537
pull
Entries 105
Mean 220
Std Dev 0

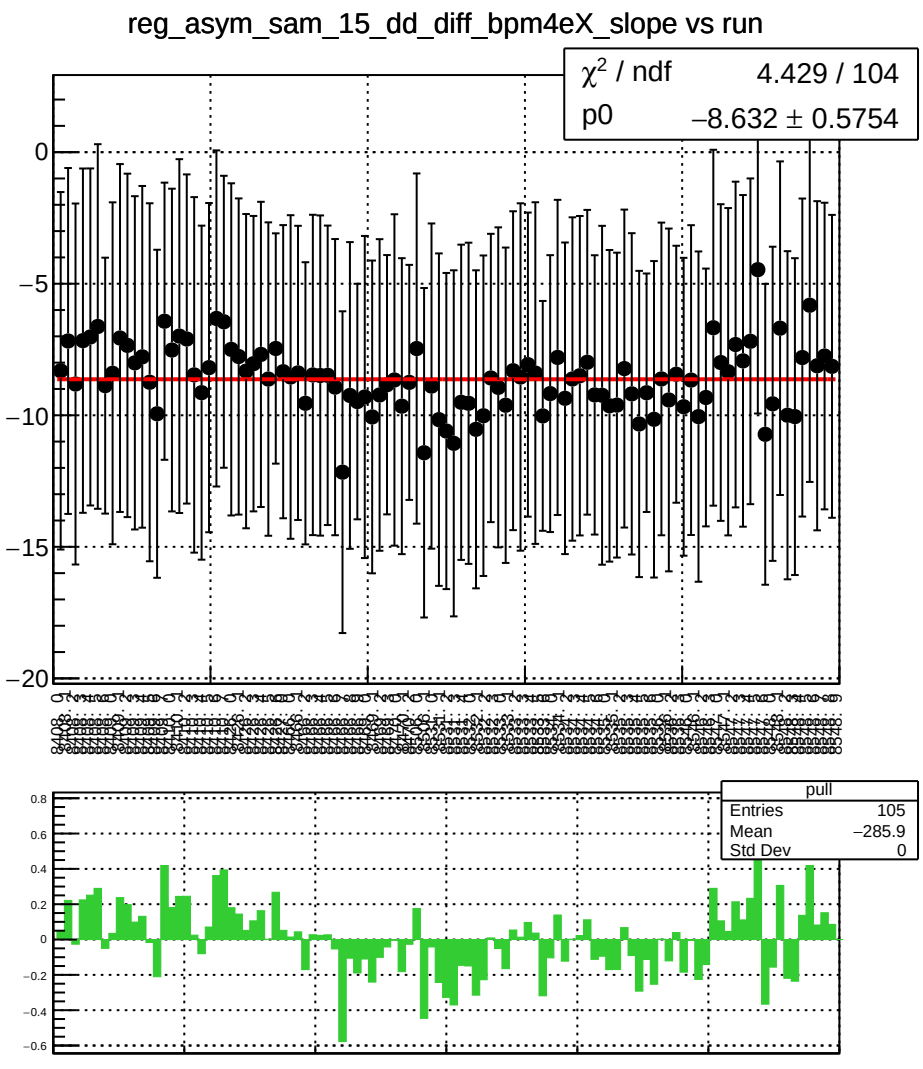

pull1D
Entries 105
Mean 0.0293
Std Dev 1.327

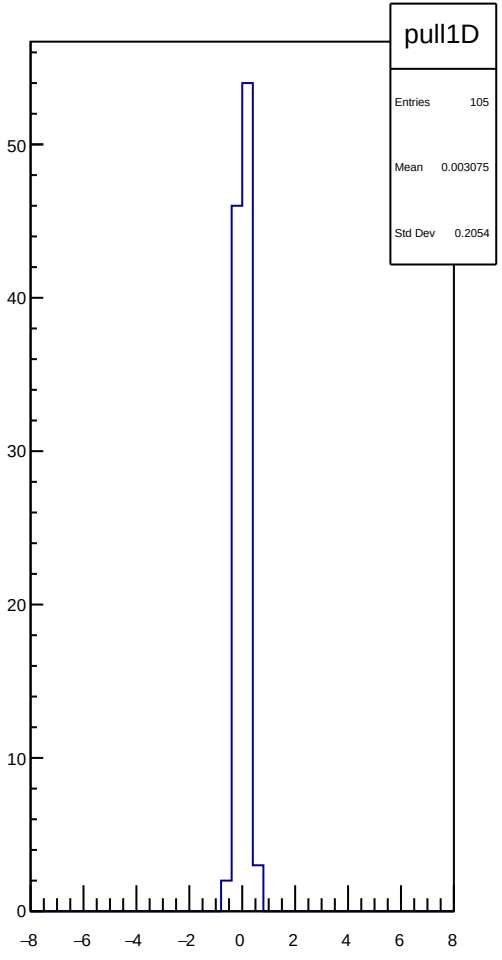

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 82.79 / 104
p0 −0.1283 ± 0.03234
pull
Entries 105
Mean −209.9
Std Dev 0
pull1D
Entries 105
Mean −0.02449
Std Dev 0.8876

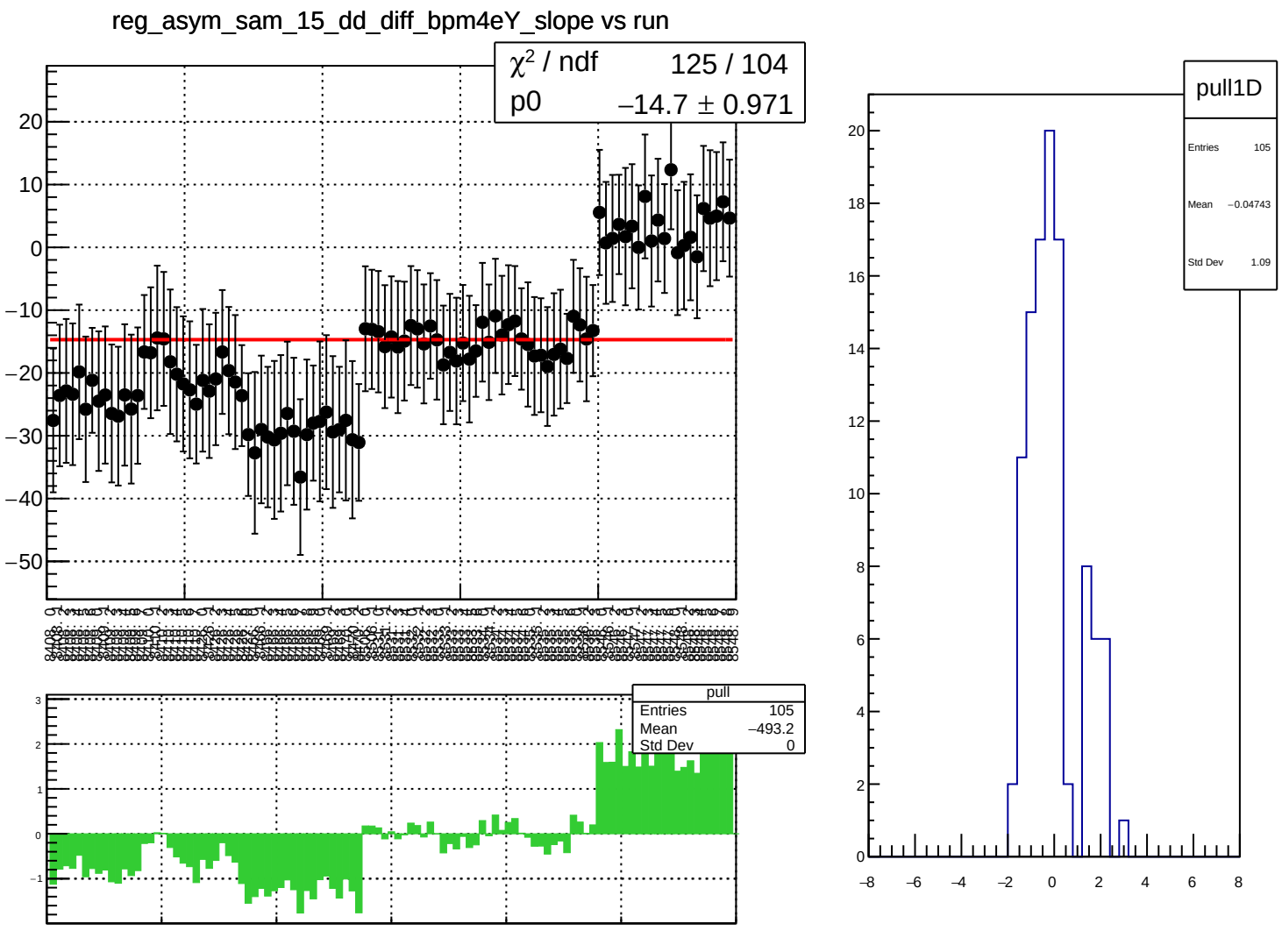

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 3.506 / 104
p0 −1.113 ± 0.5243
pull
Entries 105
Mean 1591
Std Dev 0
pull1D
Entries 105
Mean −0.0007451
Std Dev 0.1827

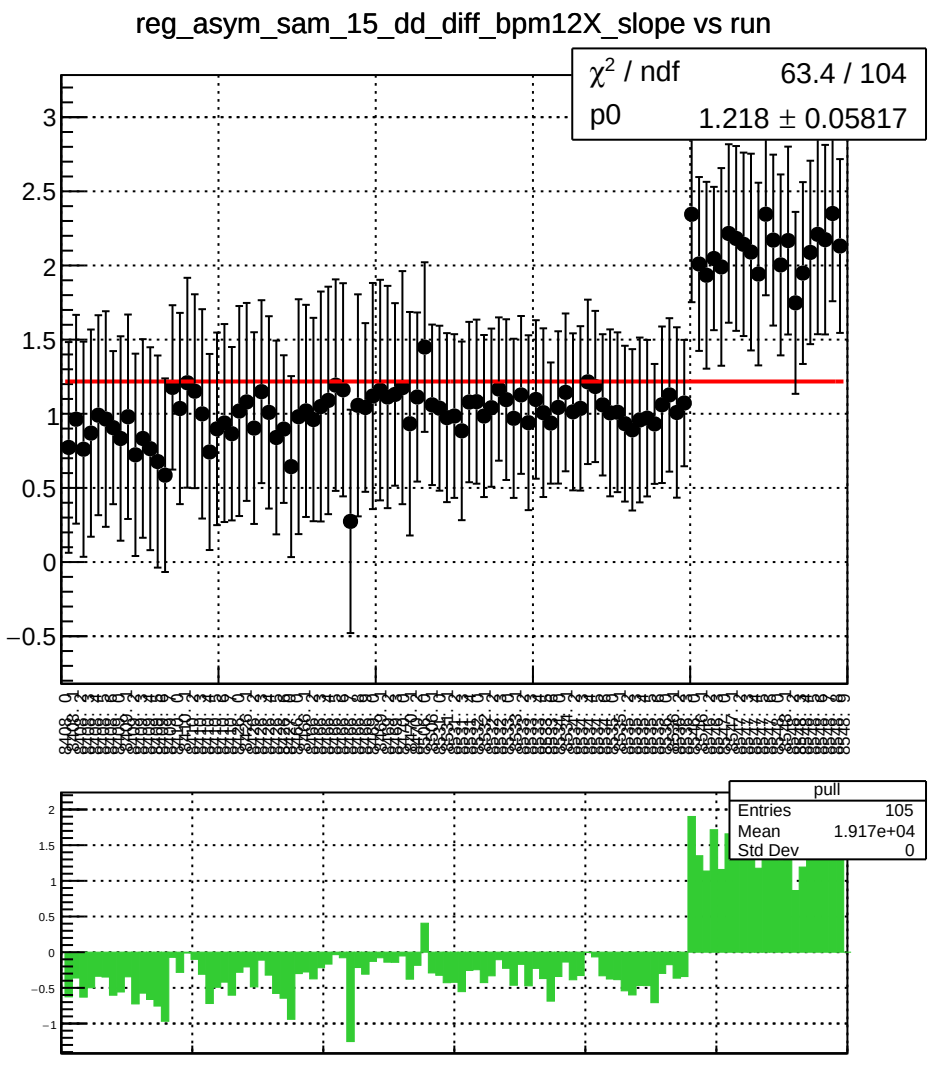

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 86.2 / 104
p0 −80.13 ± 0.9134
−50
−60
−70
−80
−90
−100
−110
pull
Entries 105
Mean −388.5
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

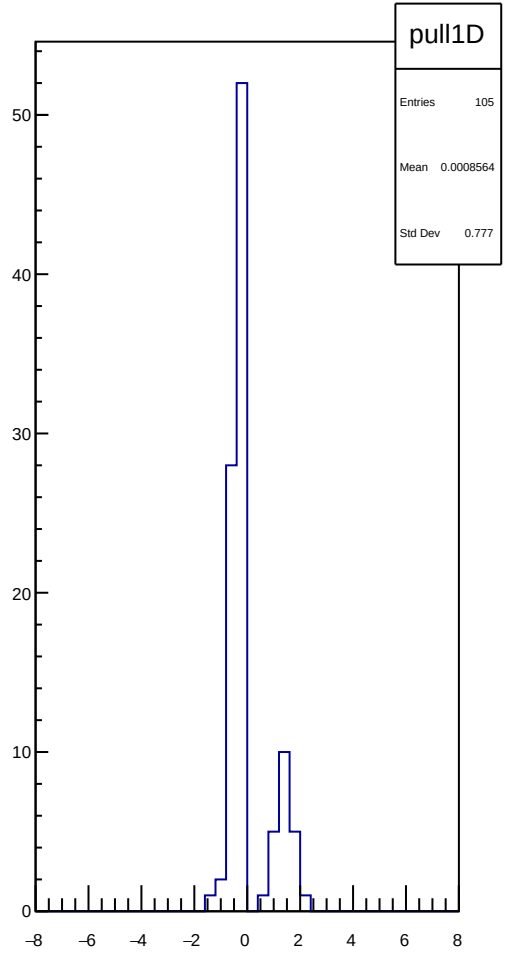

pull1D
Entries 105
Mean 0.04521
Std Dev 0.9049
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

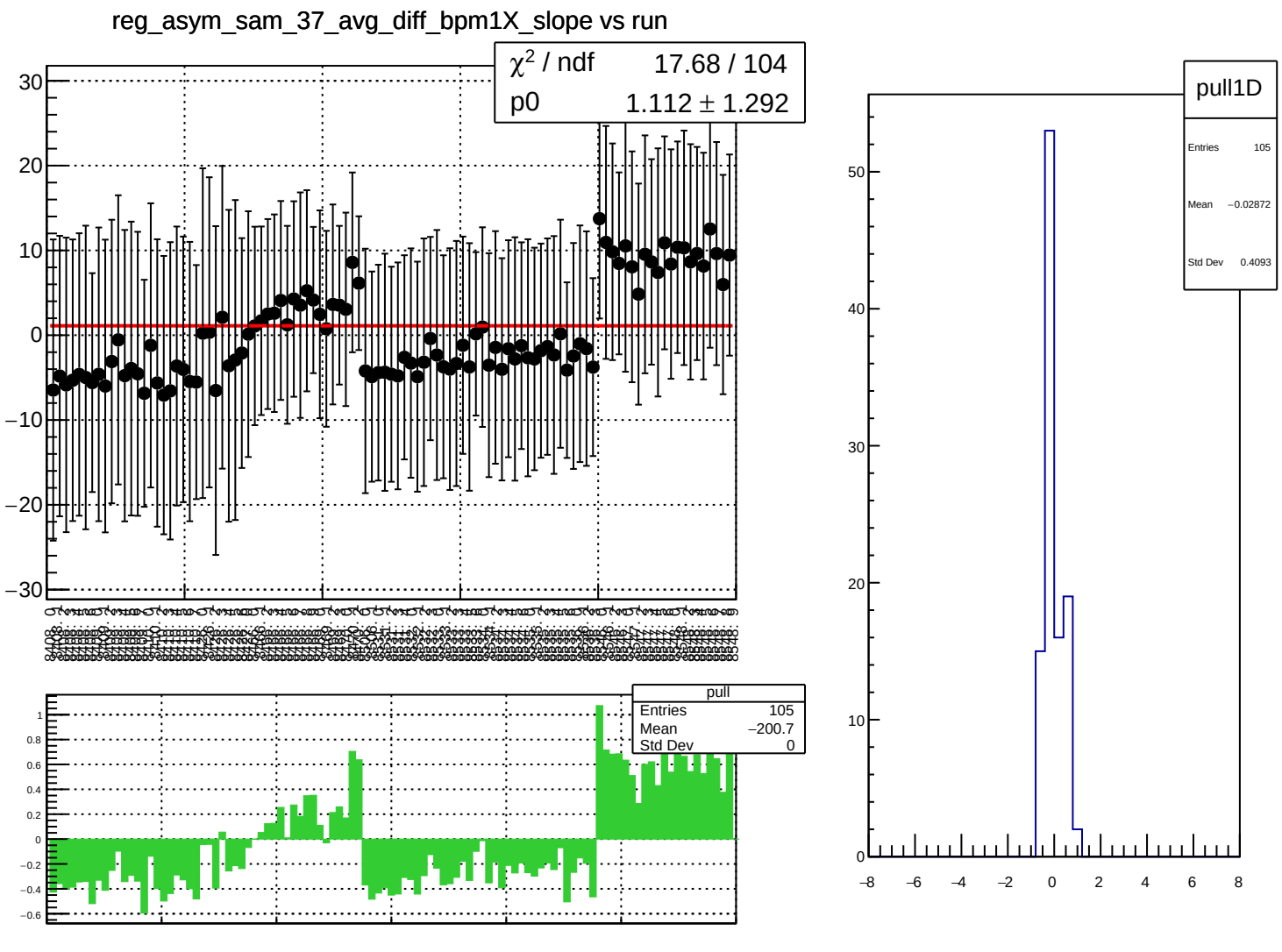

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 4.429 / 104
p0 −8.632 ± 0.5754
0
−5
−10
−15
−20
pull
Entries 105
Mean −285.9
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

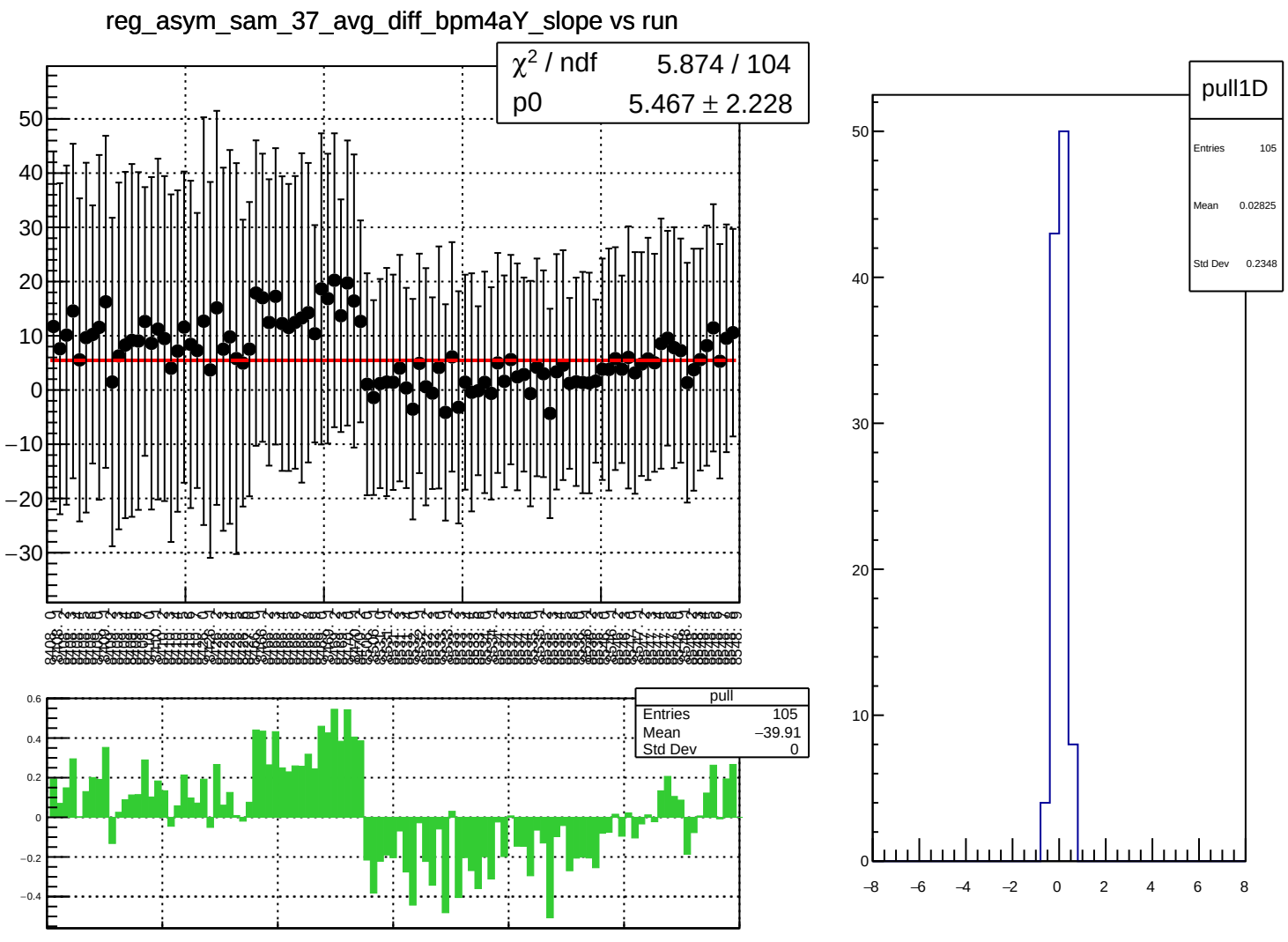

pull1D
Entries 105
Mean 0.003075
Std Dev 0.2054
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

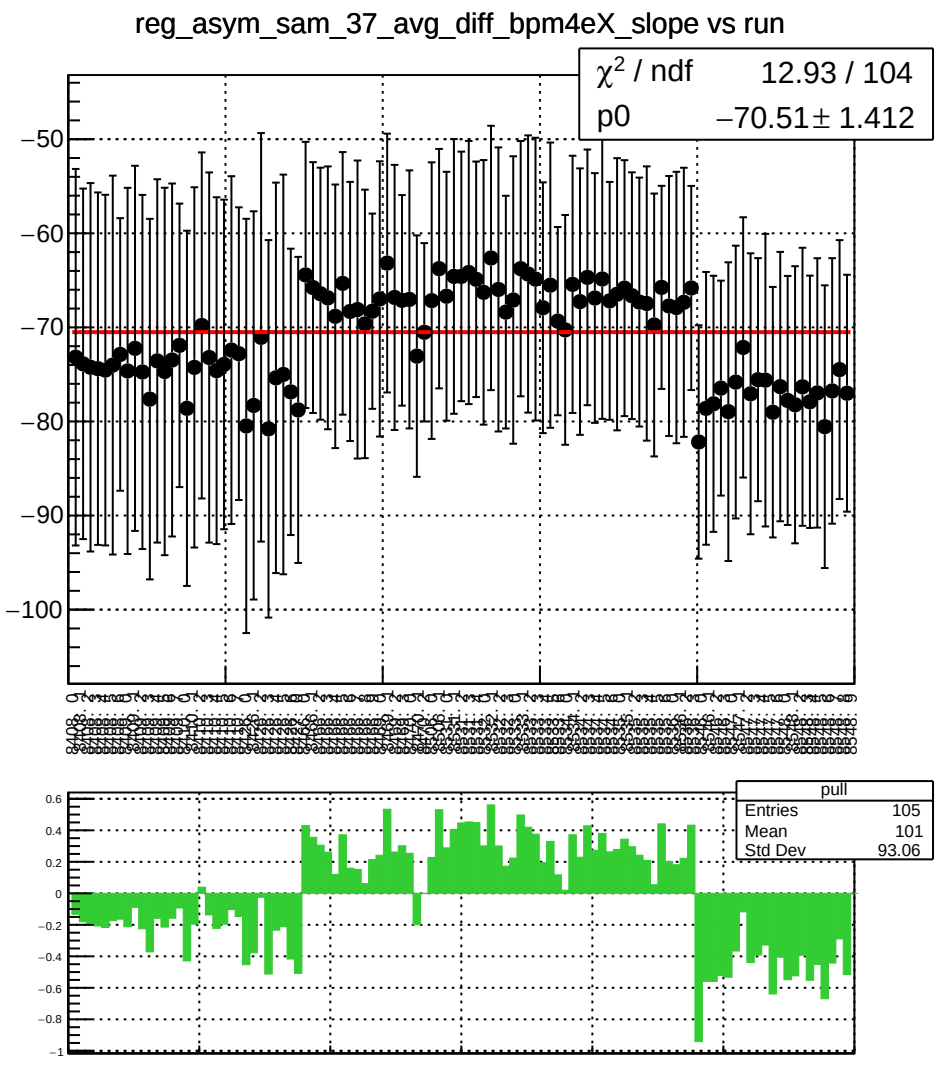

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 125 / 104
p0 −14.7 ± 0.971
pull
Entries 105
Mean −493.2
Std Dev 0
pull1D
Entries 105
Mean −0.04743
Std Dev 1.09

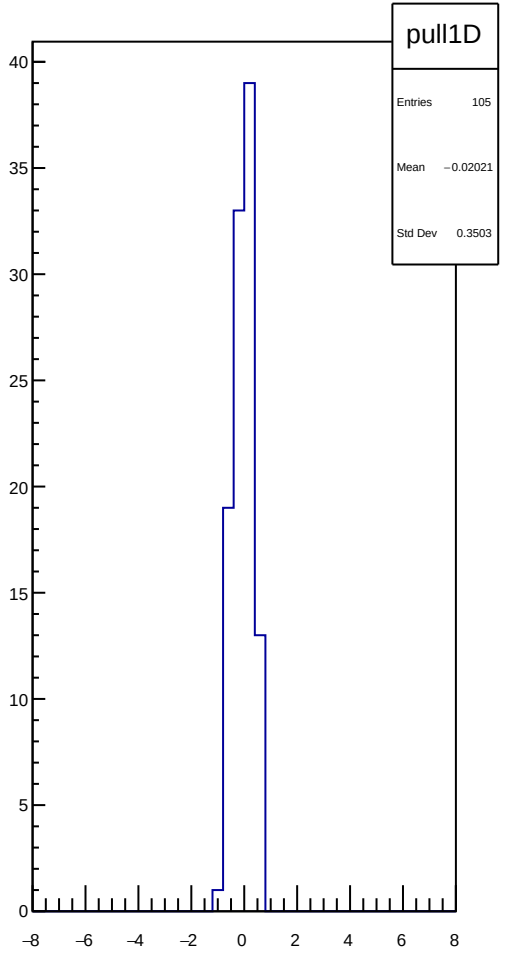

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 63.4 / 104
p0 1.218 ± 0.05817
pull
Entries 105
Mean 1.917e+04
Std Dev 0

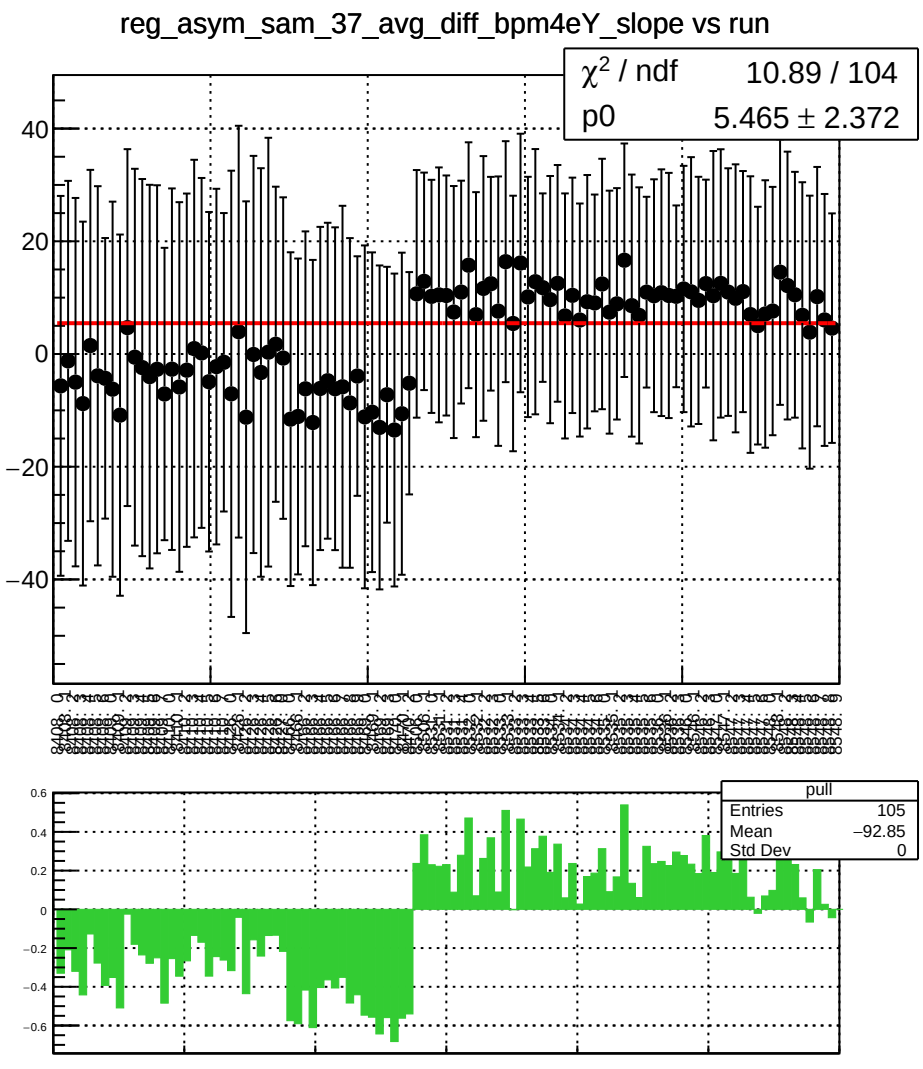

pull1D
Entries 105
Mean 0.0008564
Std Dev 0.777

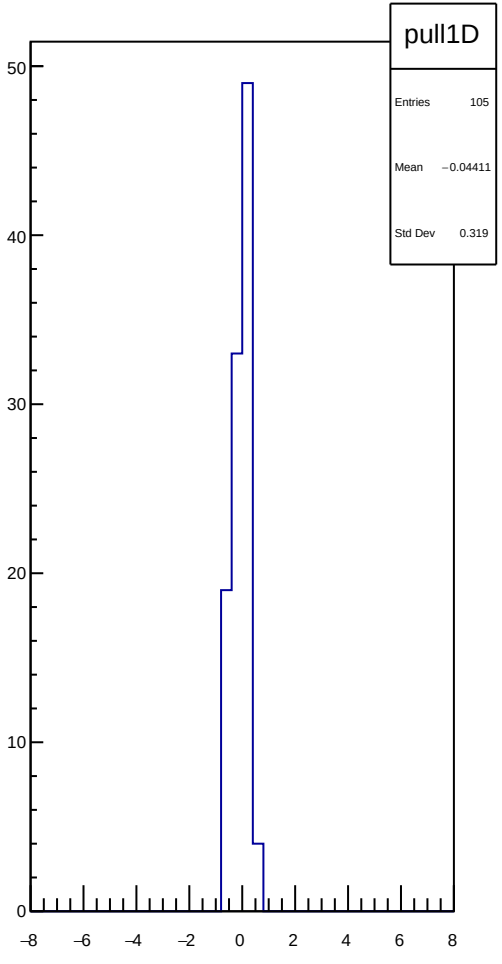

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 17.68 / 104
p0 1.112 ± 1.292
pull
Entries 105
Mean −200.7
Std Dev 0
pull1D
Entries 105
Mean −0.02872
Std Dev 0.4093

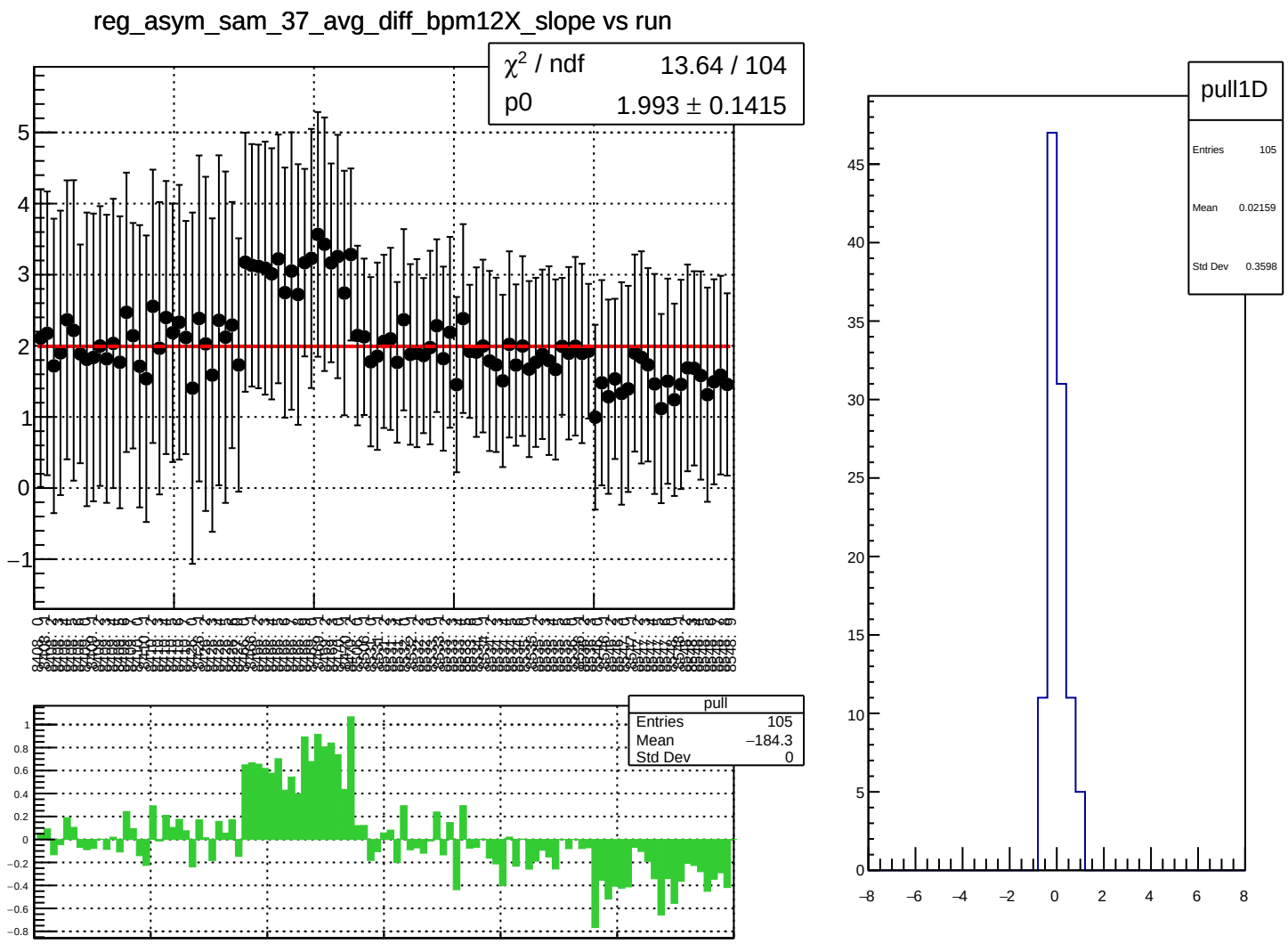

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 5.874 / 104
p0 5.467 ± 2.228
50
40
30
20
10
0
−10
−20
−30
pull
Entries 105
Mean −39.91
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 105
Mean 0.02825
Std Dev 0.2348
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

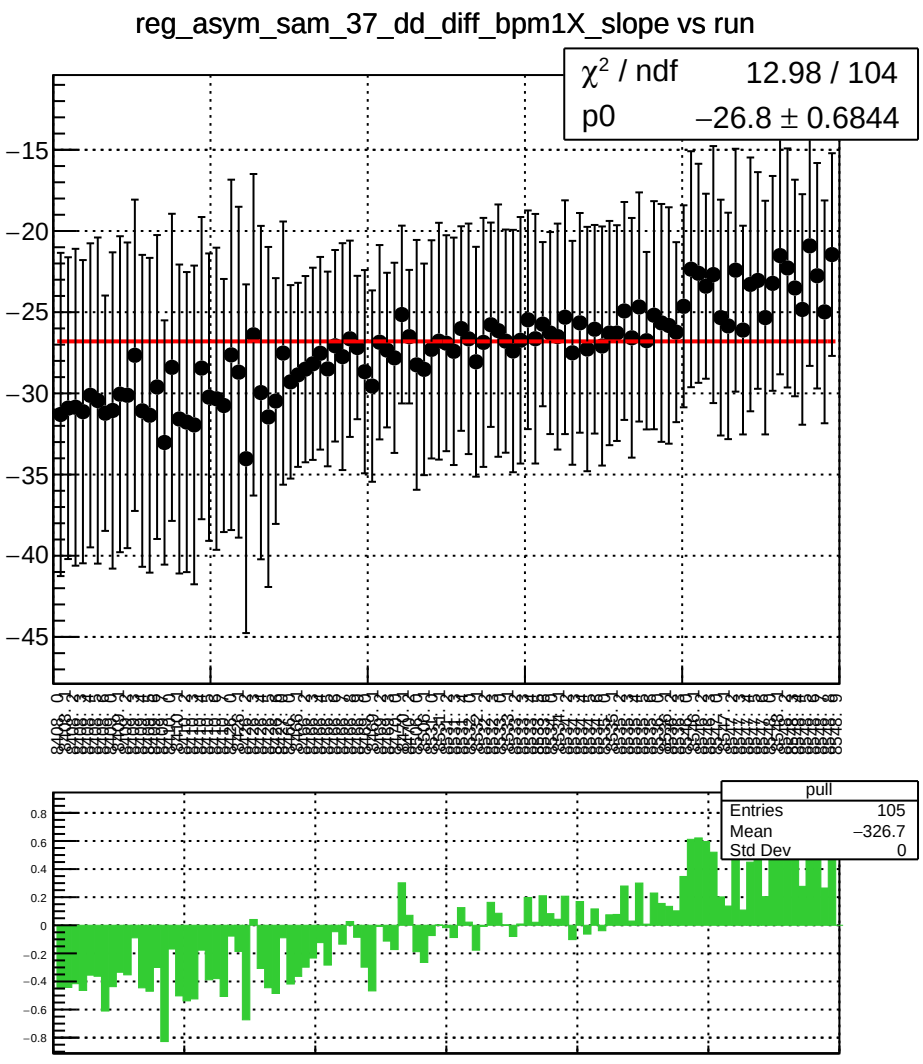

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 12.93 / 104
p0 −70.51 ± 1.412
−50
−60
−70
−80
−90
−100
pull
Entries 105
Mean 101
Std Dev 93.06
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

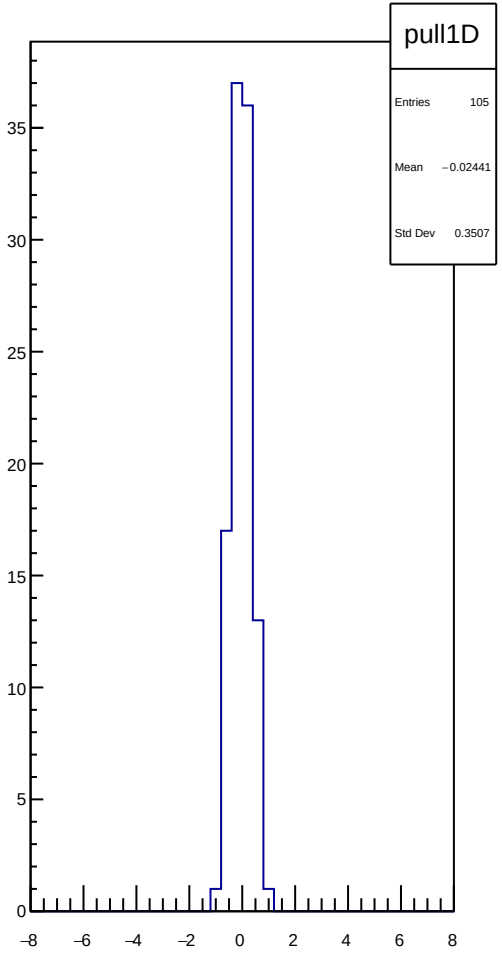

pull1D
Entries 105
Mean −0.02021
Std Dev 0.3503
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

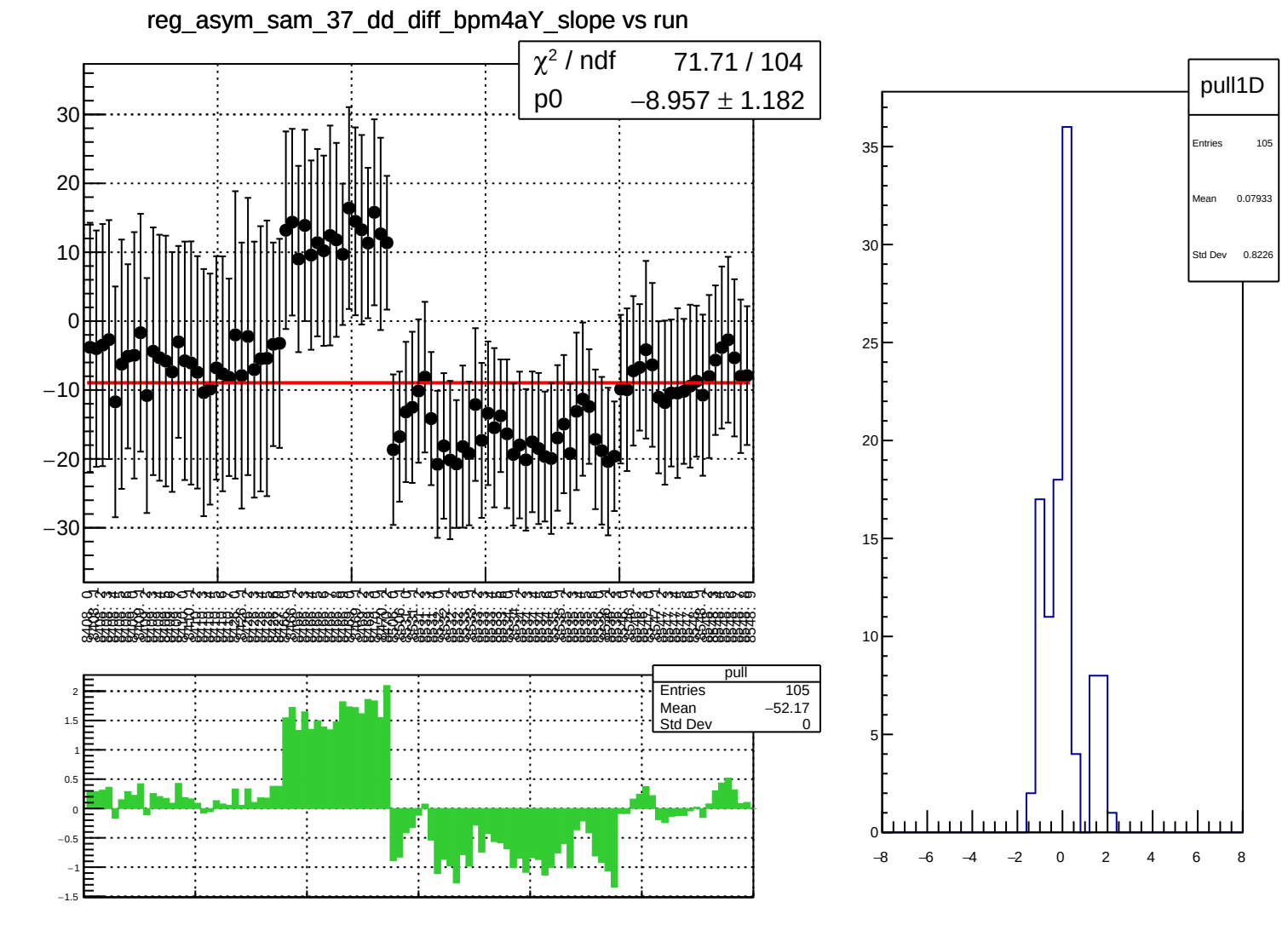

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 10.89 / 104
p0 5.465 ± 2.372
40
20
0
−20
−40
pull
Entries 105
Mean −92.85
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

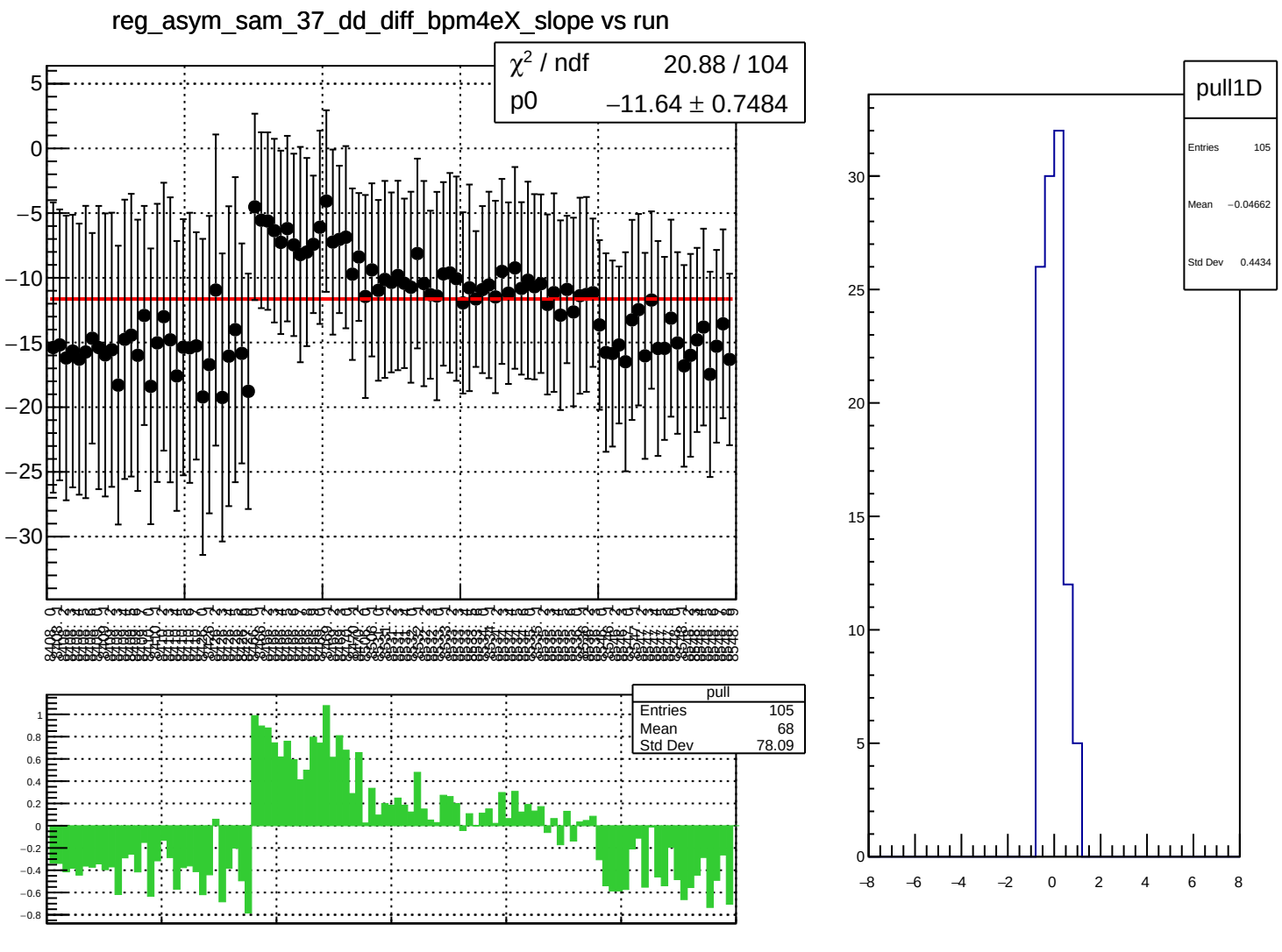

pull1D
Entries 105
Mean −0.04411
Std Dev 0.319
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

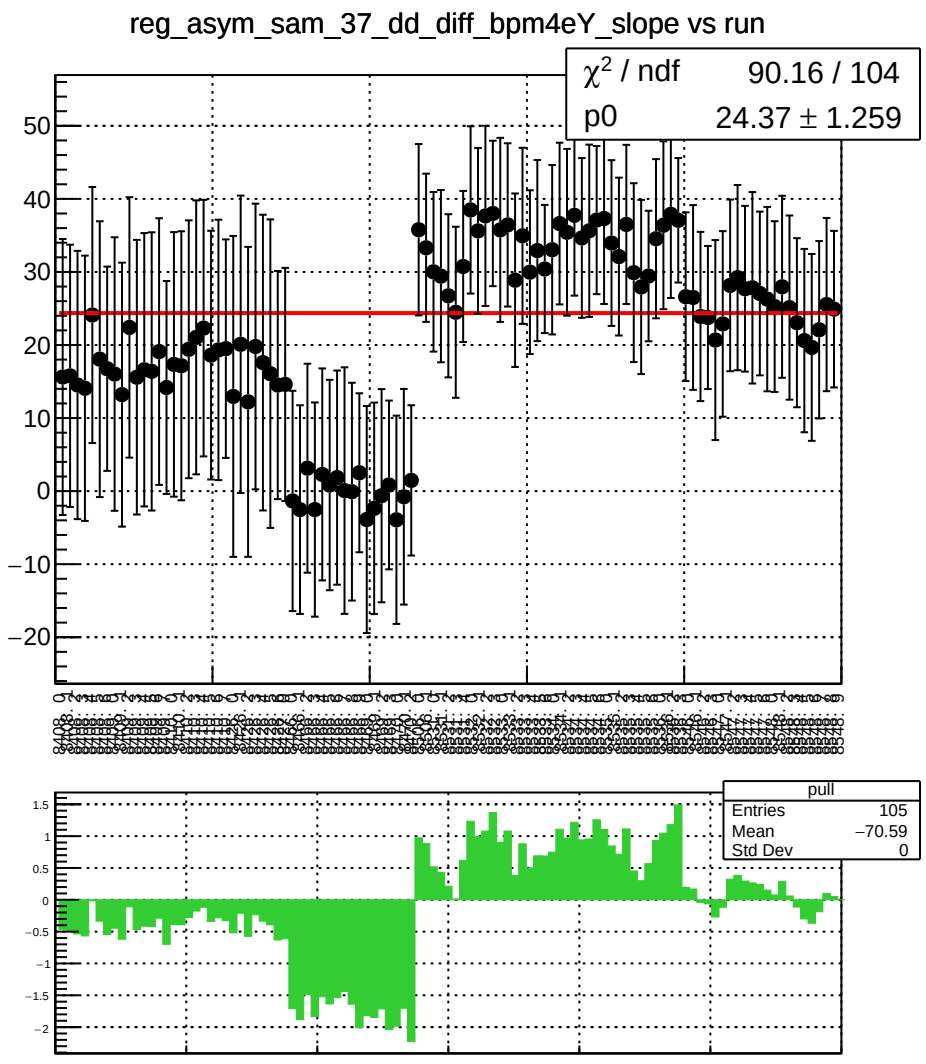

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 13.64 / 104
p0 1.993 ± 0.1415
pull
Entries 105
Mean −184.3
Std Dev 0
pull1D
Entries 105
Mean 0.02159
Std Dev 0.3598

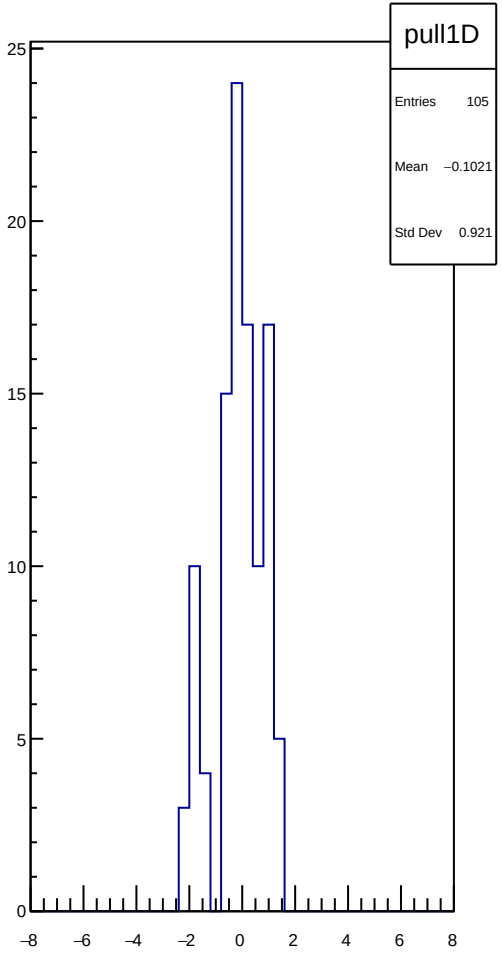

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 12.98 / 104
p0 −26.8 ± 0.6844
−15
−20
−25
−30
−35
−40
−45
pull
Entries 105
Mean −326.7
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

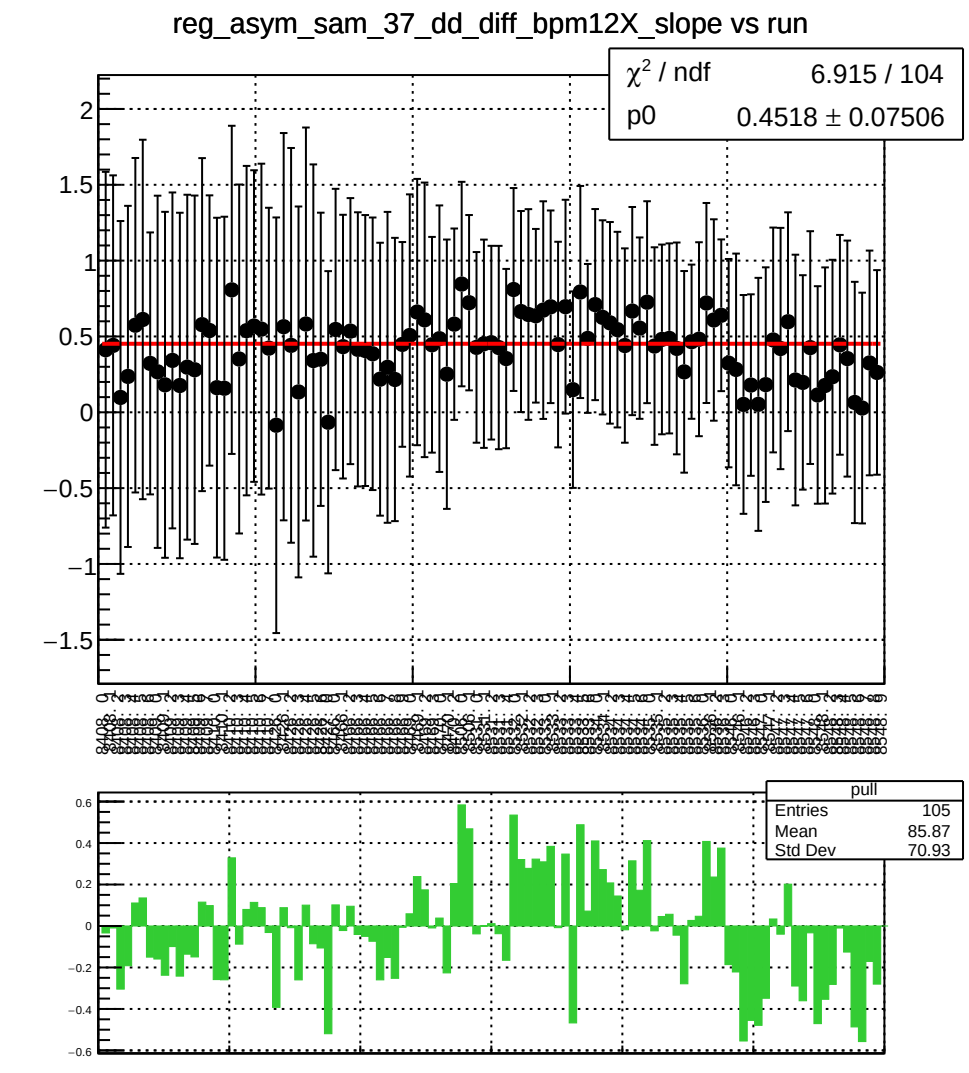

pull1D
Entries 105
Mean −0.02441
Std Dev 0.3507
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

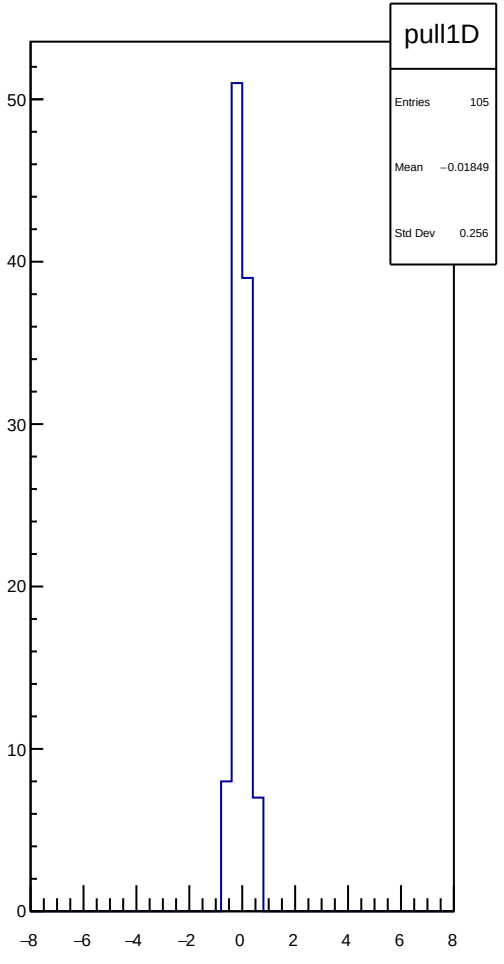

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 71.71 / 104
p0 −8.957 ± 1.182
pull
Entries 105
Mean −52.17
Std Dev 0
pull1D
Entries 105
Mean 0.07933
Std Dev 0.8226

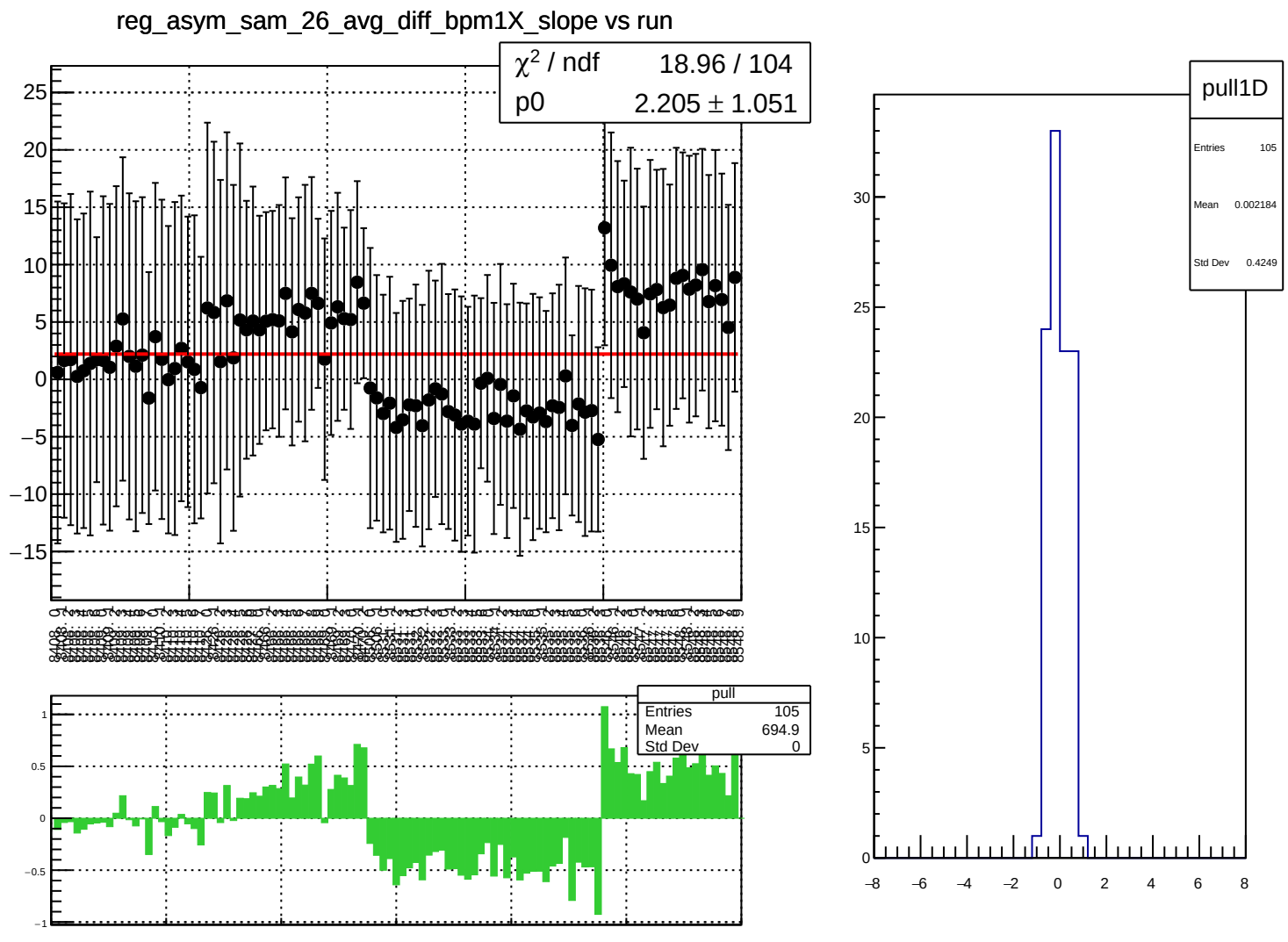

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 20.88 / 104
p0 −11.64 ± 0.7484
pull
Entries 105
Mean 68
Std Dev 78.09
pull1D
Entries 105
Mean −0.04662
Std Dev 0.4434

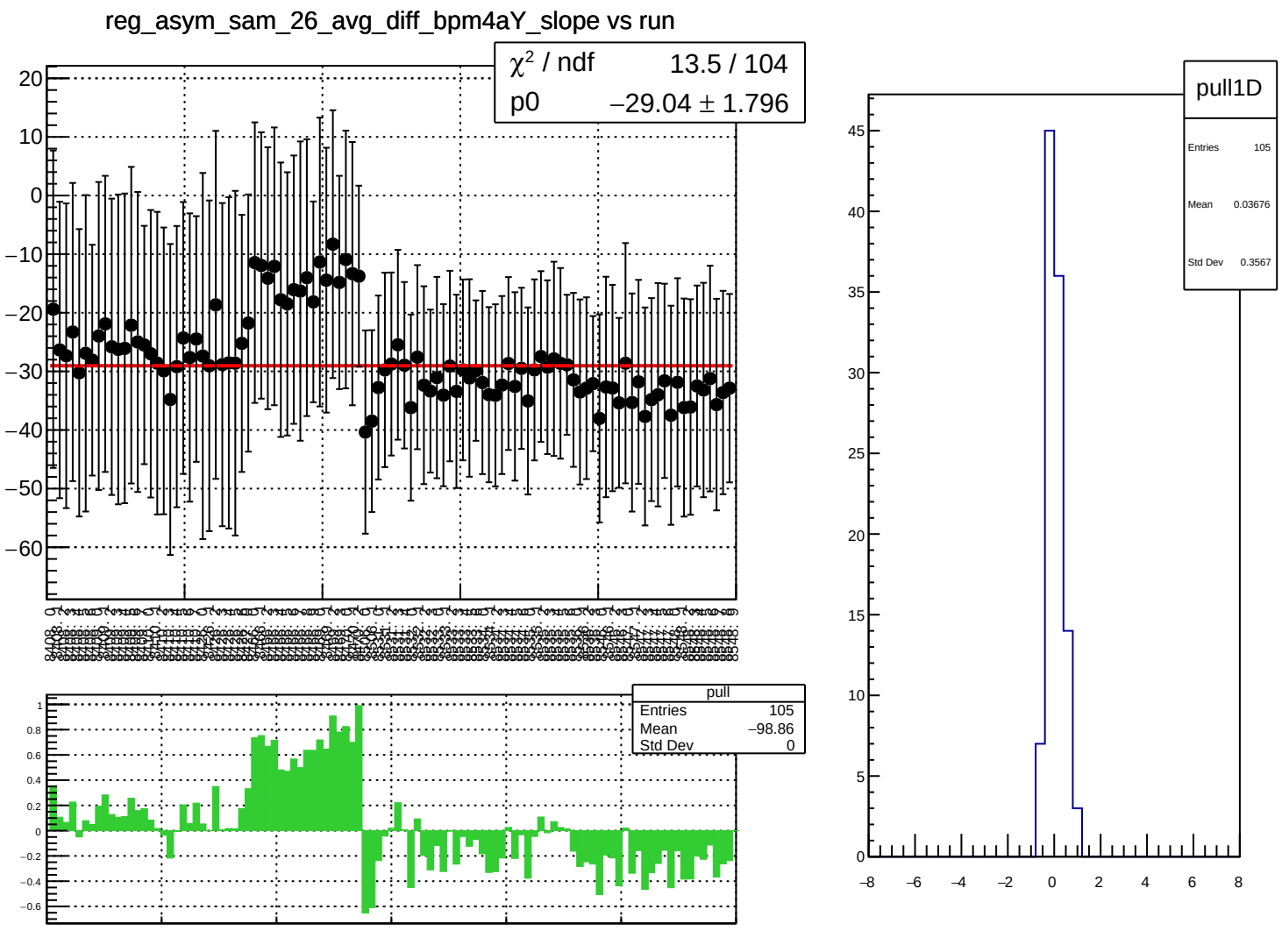

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 90.16 / 104
p0 24.37 ± 1.259
pull
Entries 105
Mean −70.59
Std Dev 0

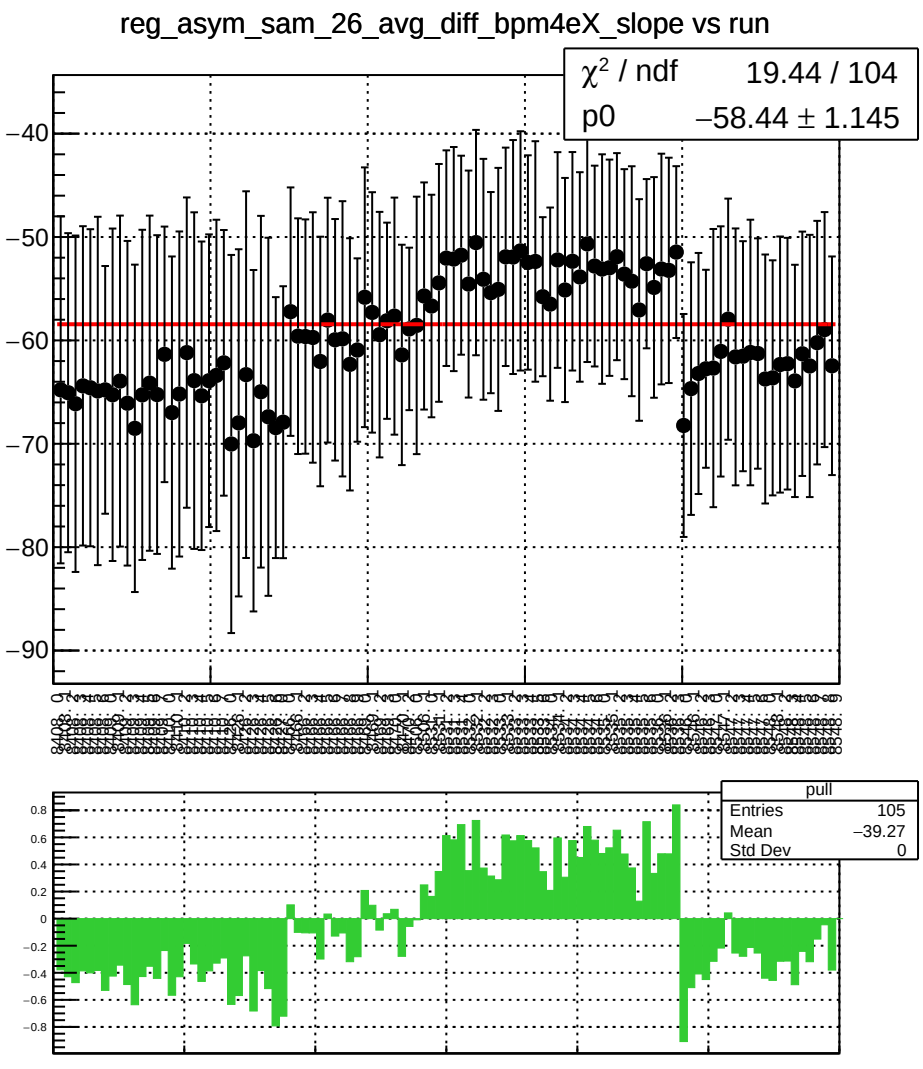

pull1D
Entries 105
Mean −0.1021
Std Dev 0.921

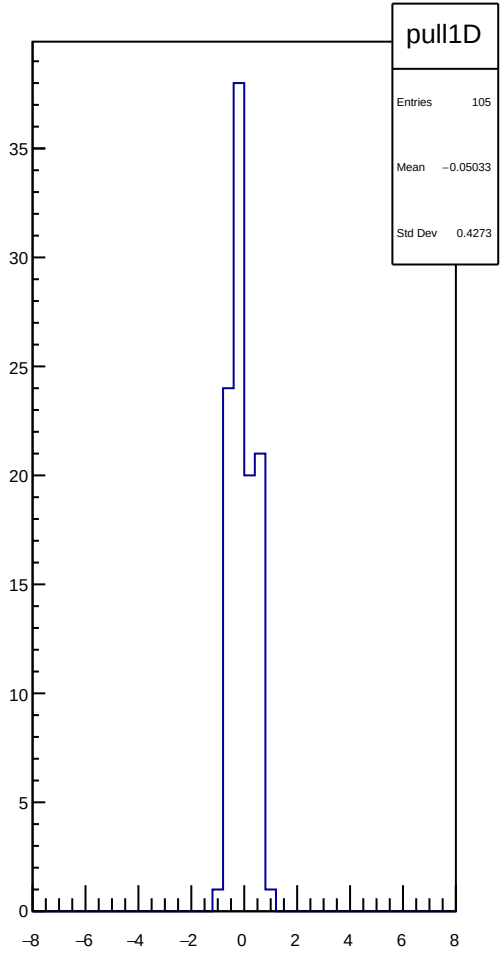

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 6.915 / 104
p0 0.4518 ± 0.07506
pull
Entries 105
Mean 85.87
Std Dev 70.93

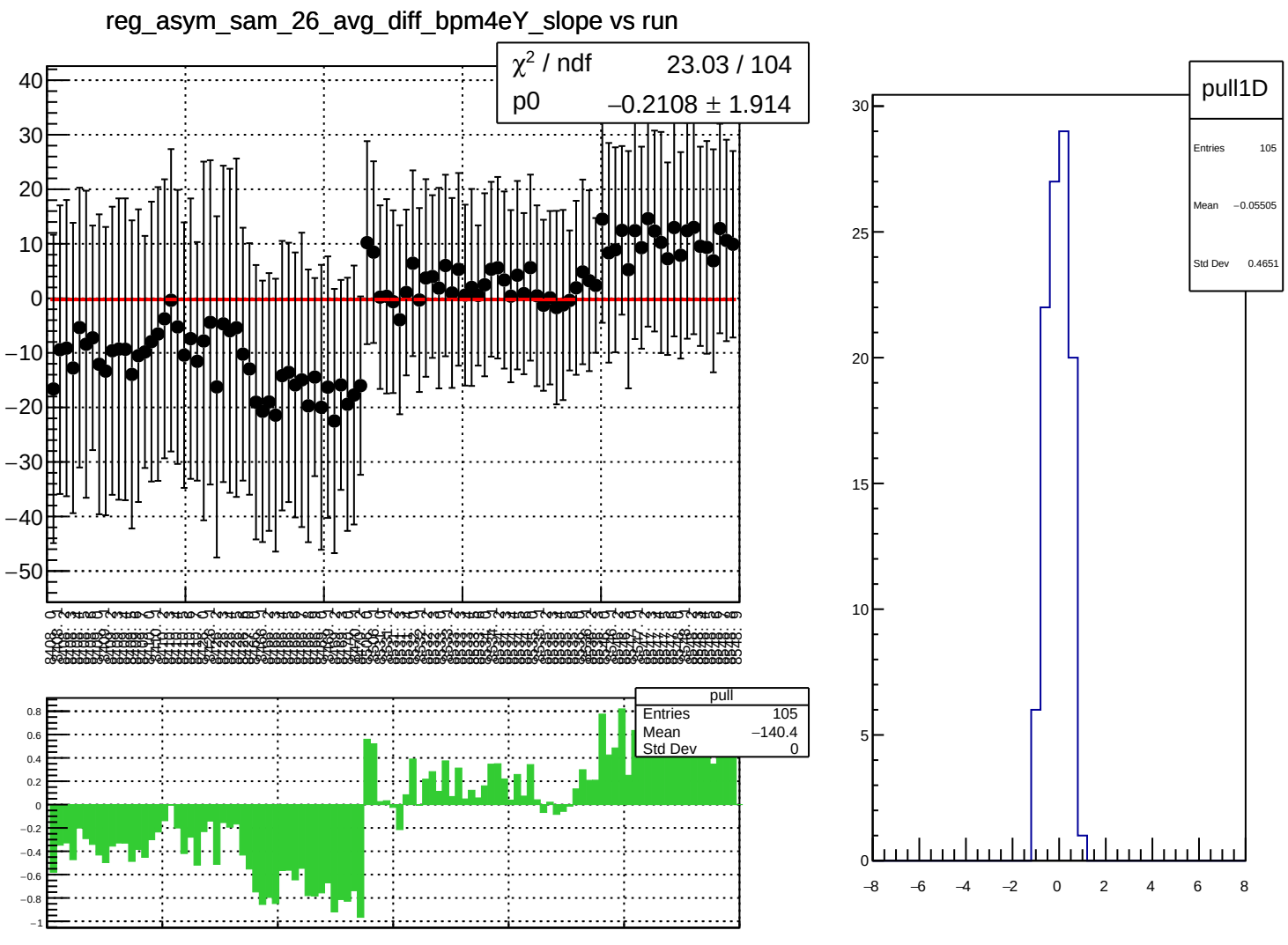

pull1D
Entries 105
Mean −0.01849
Std Dev 0.256

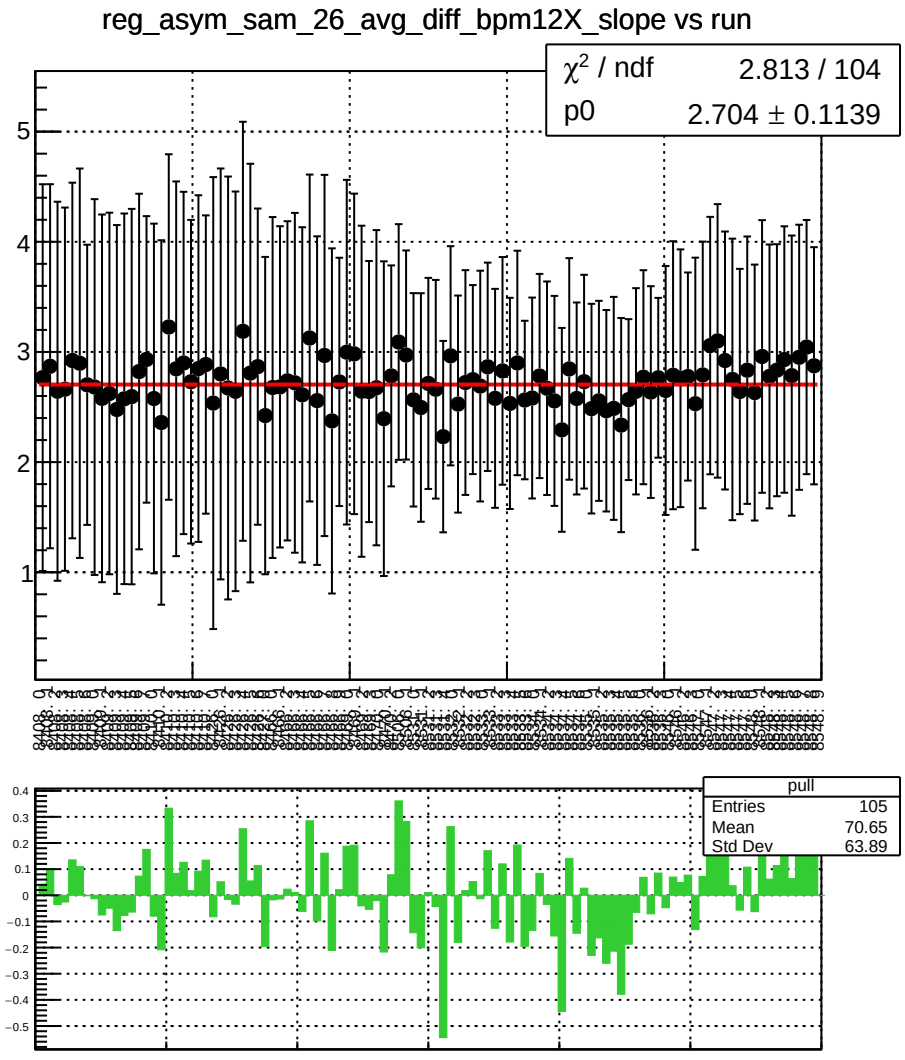

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 18.96 / 104
p0 2.205 ± 1.051
pull
Entries 105
Mean 694.9
Std Dev 0
pull1D
Entries 105
Mean 0.002184
Std Dev 0.4249

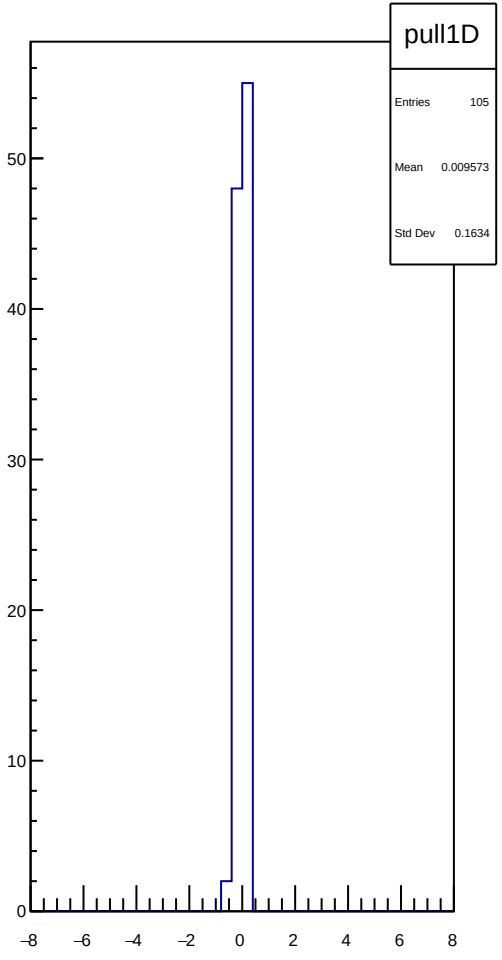

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 13.5 / 104
p0 −29.04 ± 1.796
pull
Entries 105
Mean −98.86
Std Dev 0
pull1D
Entries 105
Mean 0.03676
Std Dev 0.3567

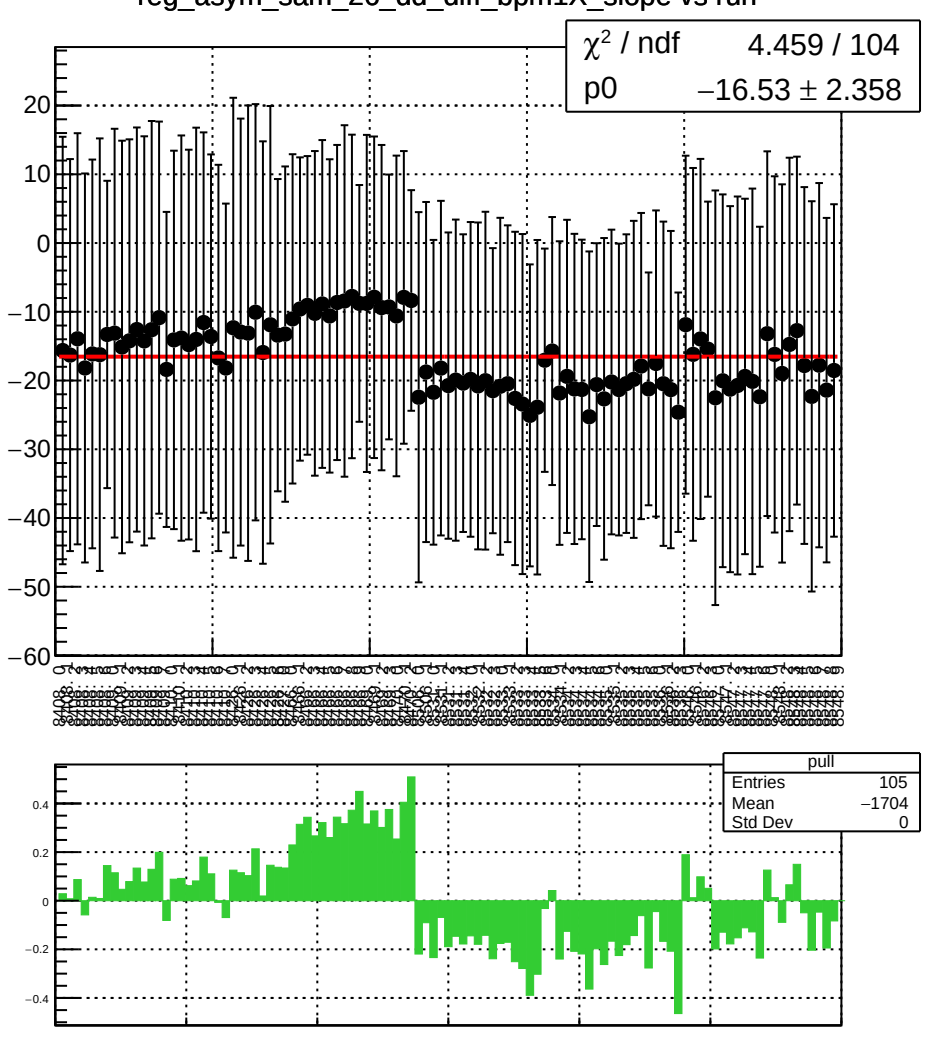

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 19.44 / 104
p0 −58.44 ± 1.145
−40
−50
−60
−70
−80
−90
pull
Entries 105
Mean −39.27
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

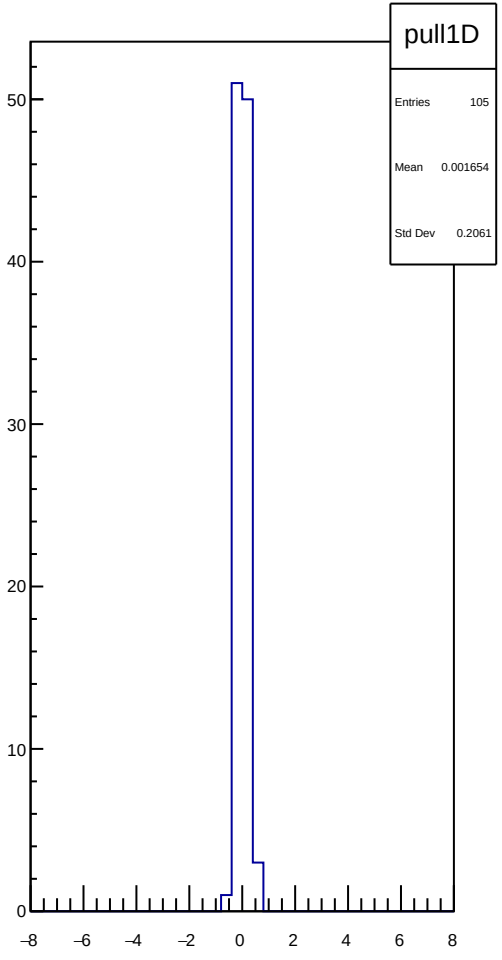

pull1D
Entries 105
Mean −0.05033
Std Dev 0.4273
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

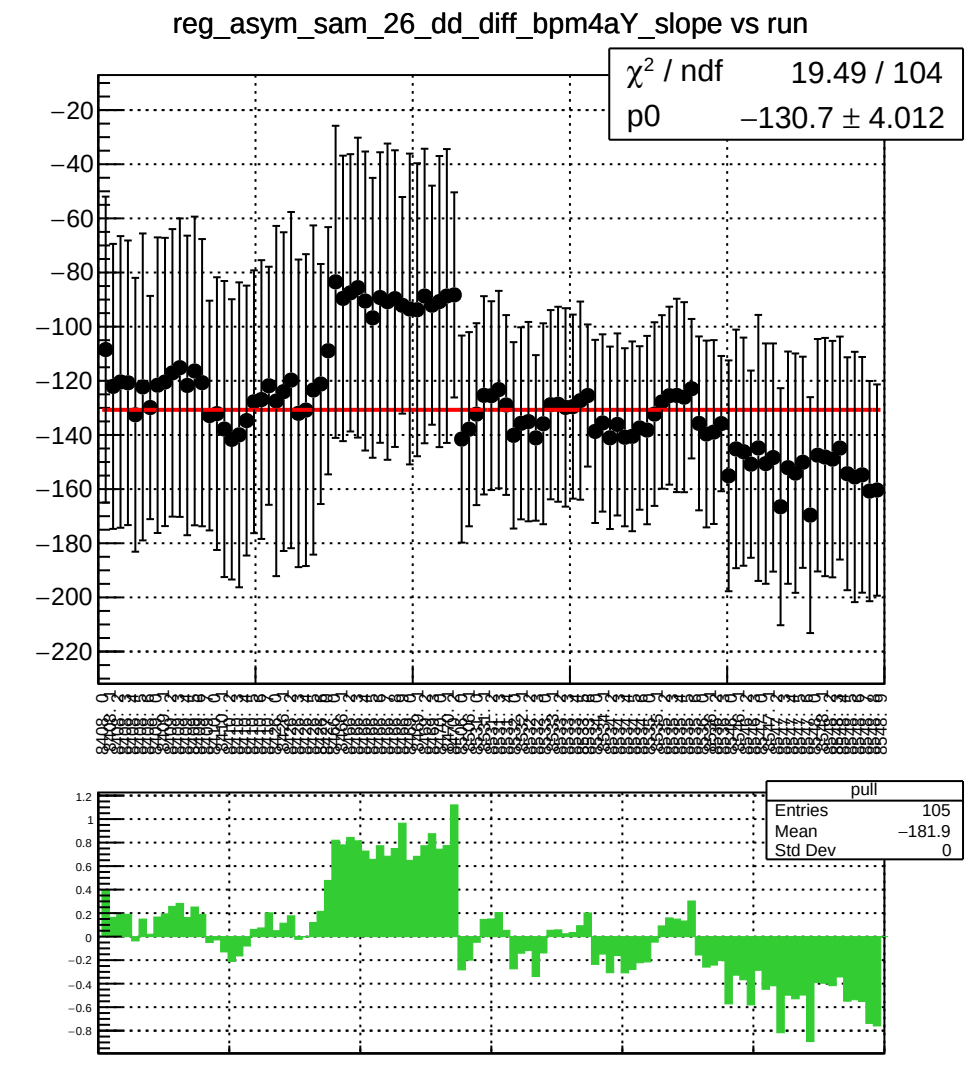

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 23.03 / 104
p0 −0.2108 ± 1.914
pull
Entries 105
Mean −140.4
Std Dev 0
pull1D
Entries 105
Mean −0.05505
Std Dev 0.4651

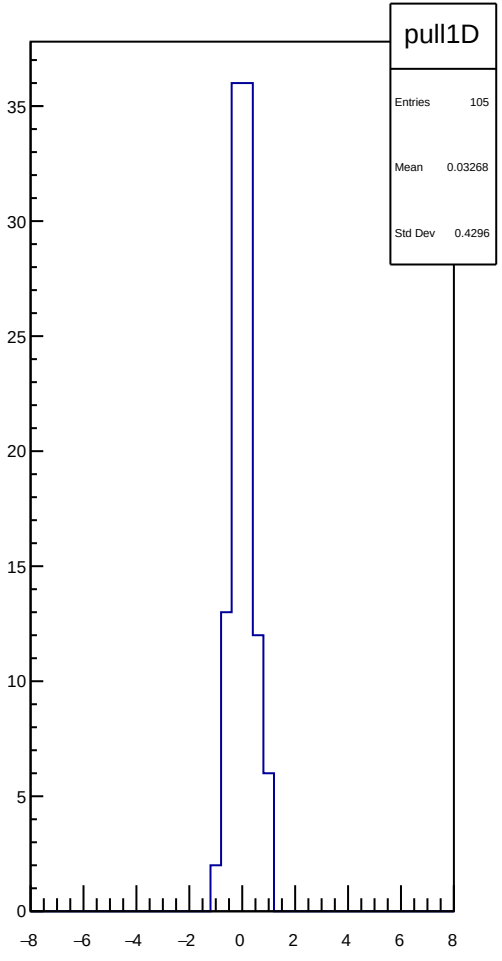

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 2.813 / 104
p0 2.704 ± 0.1139
pull
Entries 105
Mean 70.65
Std Dev 63.89

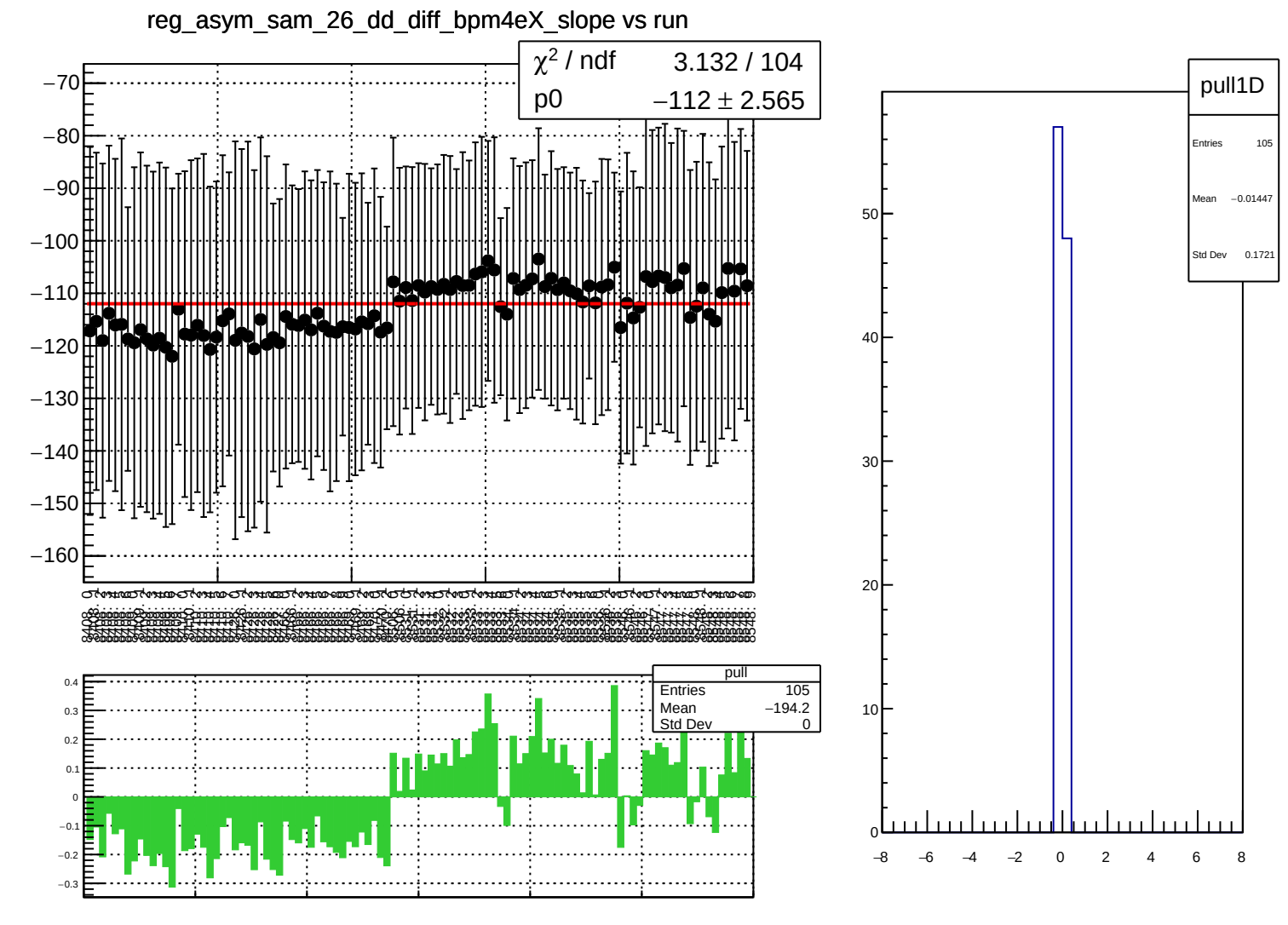

pull1D
Entries 105
Mean 0.009573
Std Dev 0.1634

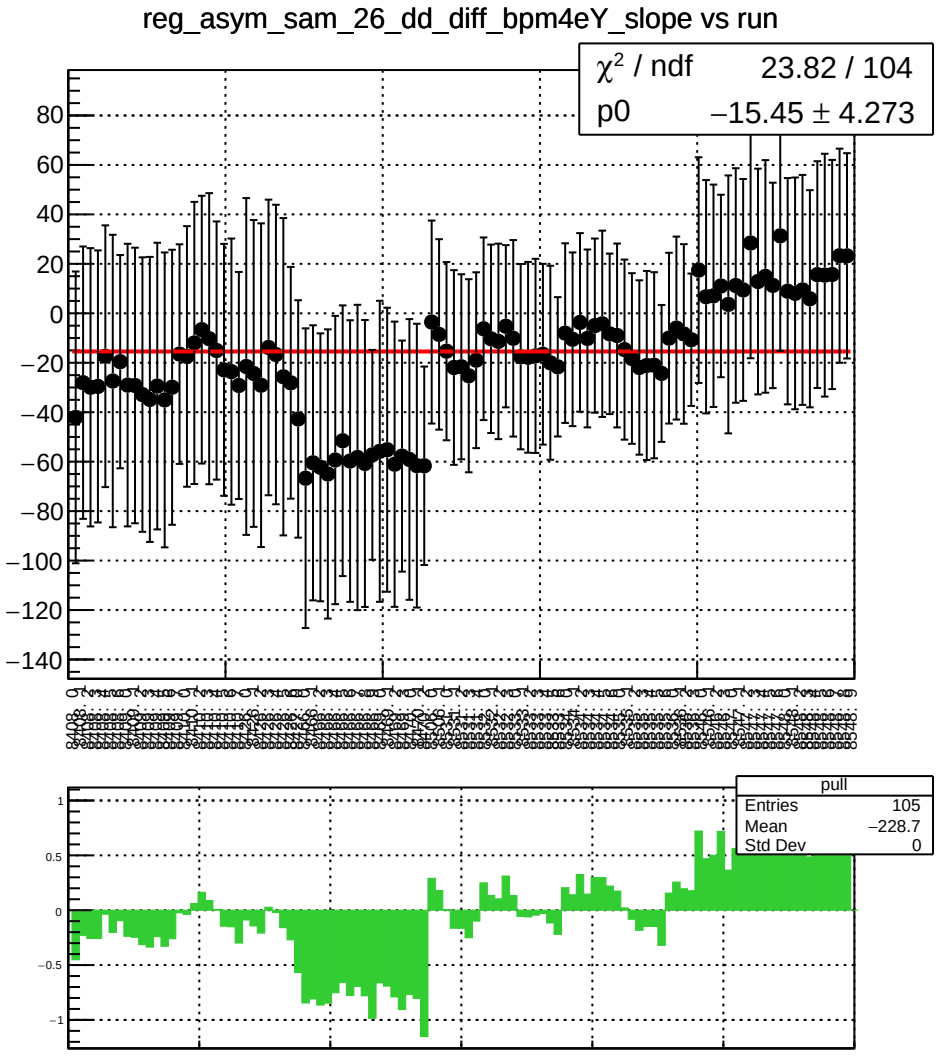

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 4.459 / 104
p0 −16.53 ± 2.358
pull
Entries 105
Mean −1704
Std Dev 0

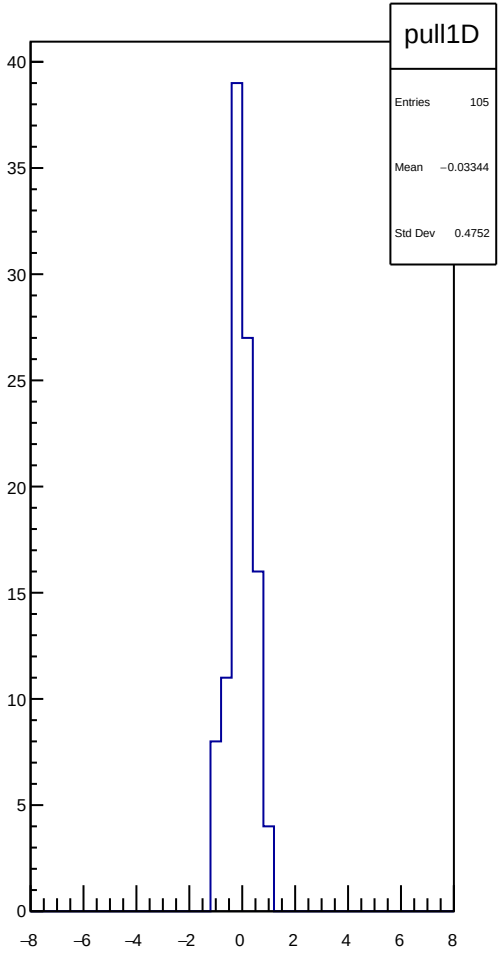

pull1D
Entries 105
Mean 0.001654
Std Dev 0.2061

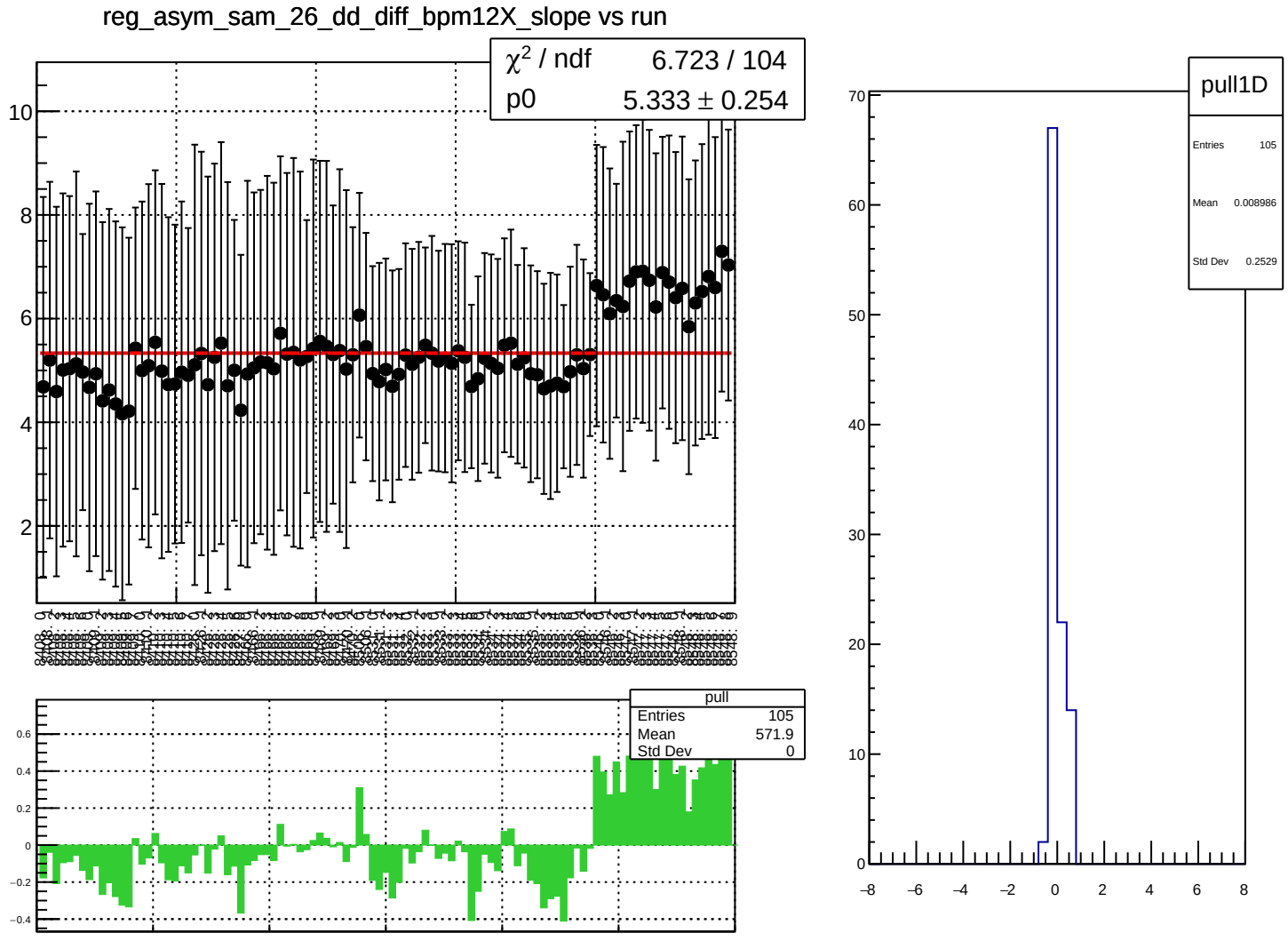

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 19.49 / 104
p0 −130.7 ± 4.012
pull
Entries 105
Mean −181.9
Std Dev 0

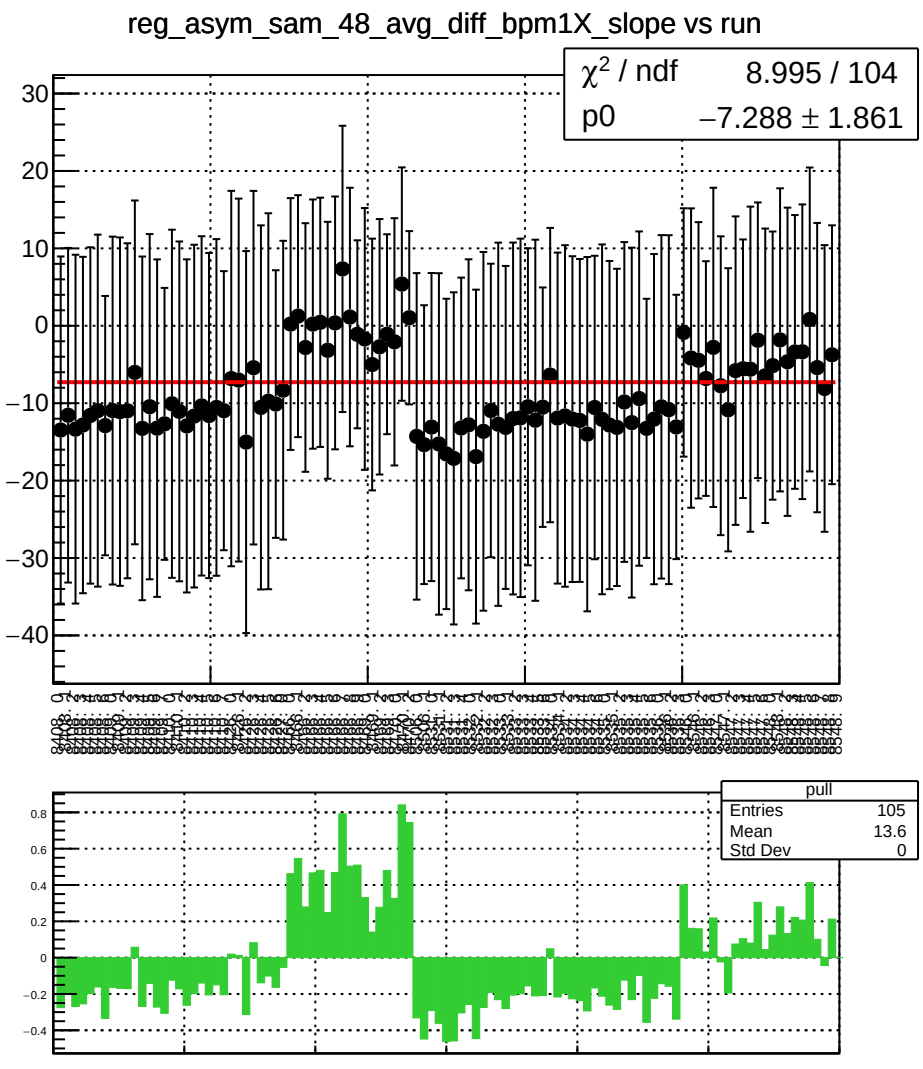

pull1D
Entries 105
Mean 0.03268
Std Dev 0.4296

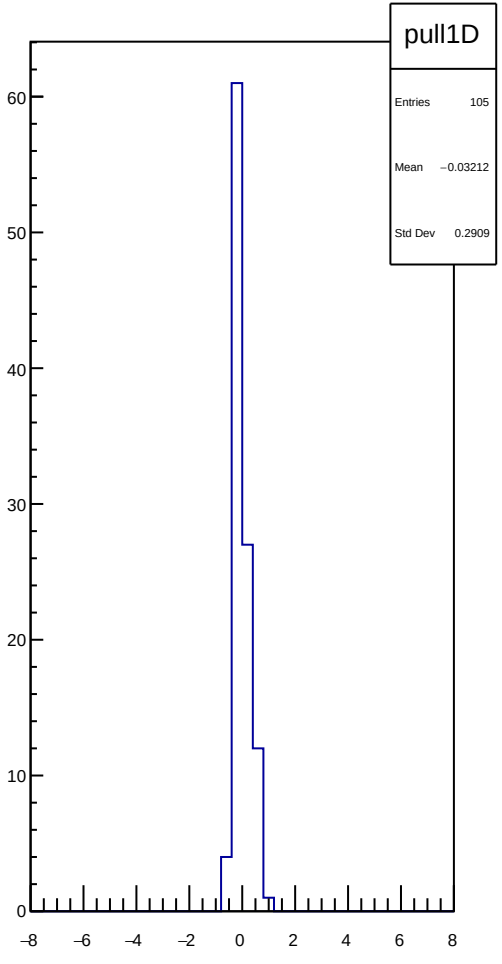

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.132 / 104
p0 −112 ± 2.565
−70
−80
−90
−100
−110
−120
−130
−140
−150
−160
pull
Entries 105
Mean −194.2
Std Dev 0
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 105
Mean −0.01447
Std Dev 0.1721
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

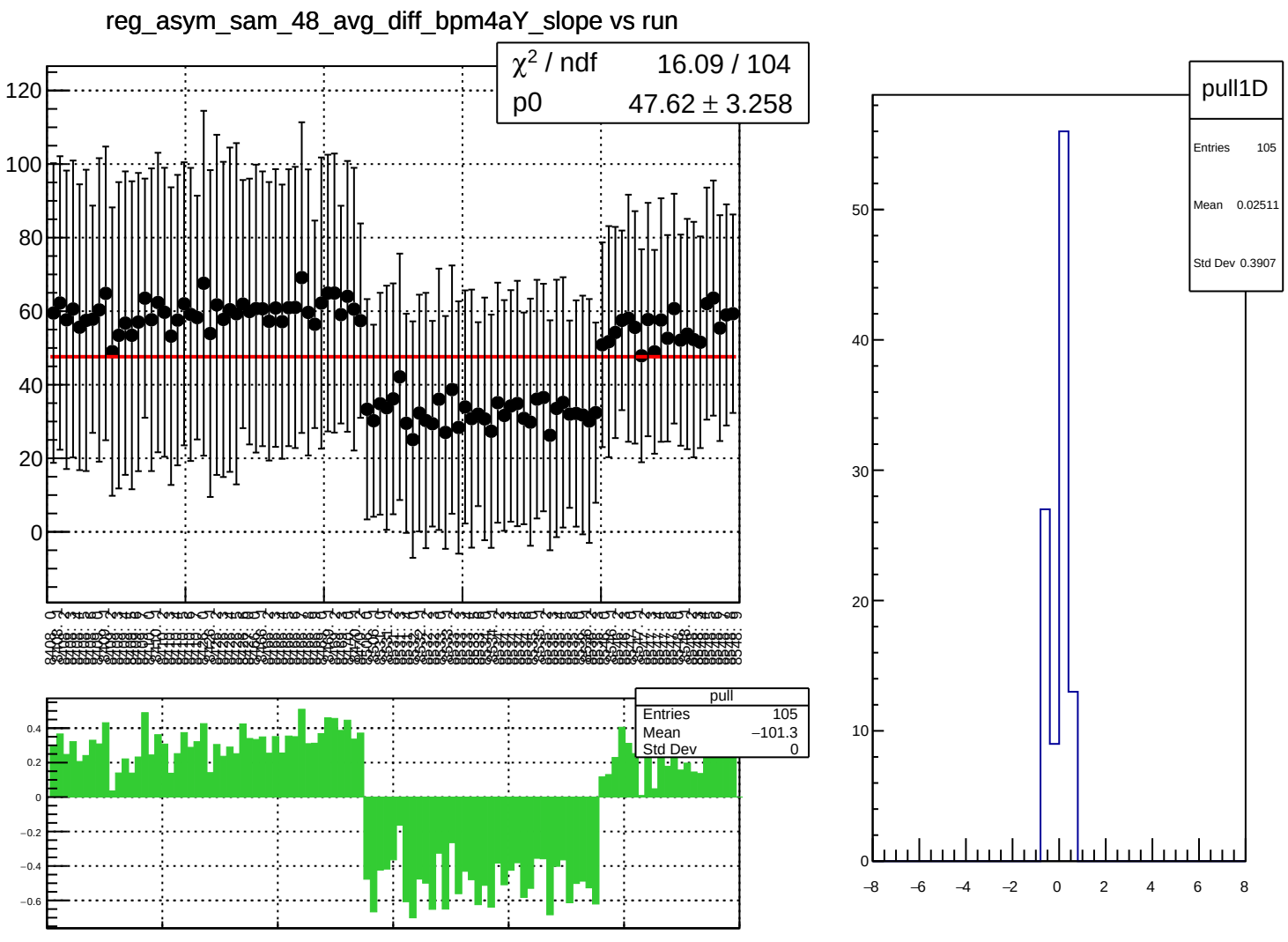

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 23.82 / 104
p0 −15.45 ± 4.273
pull
Entries 105
Mean −228.7
Std Dev 0

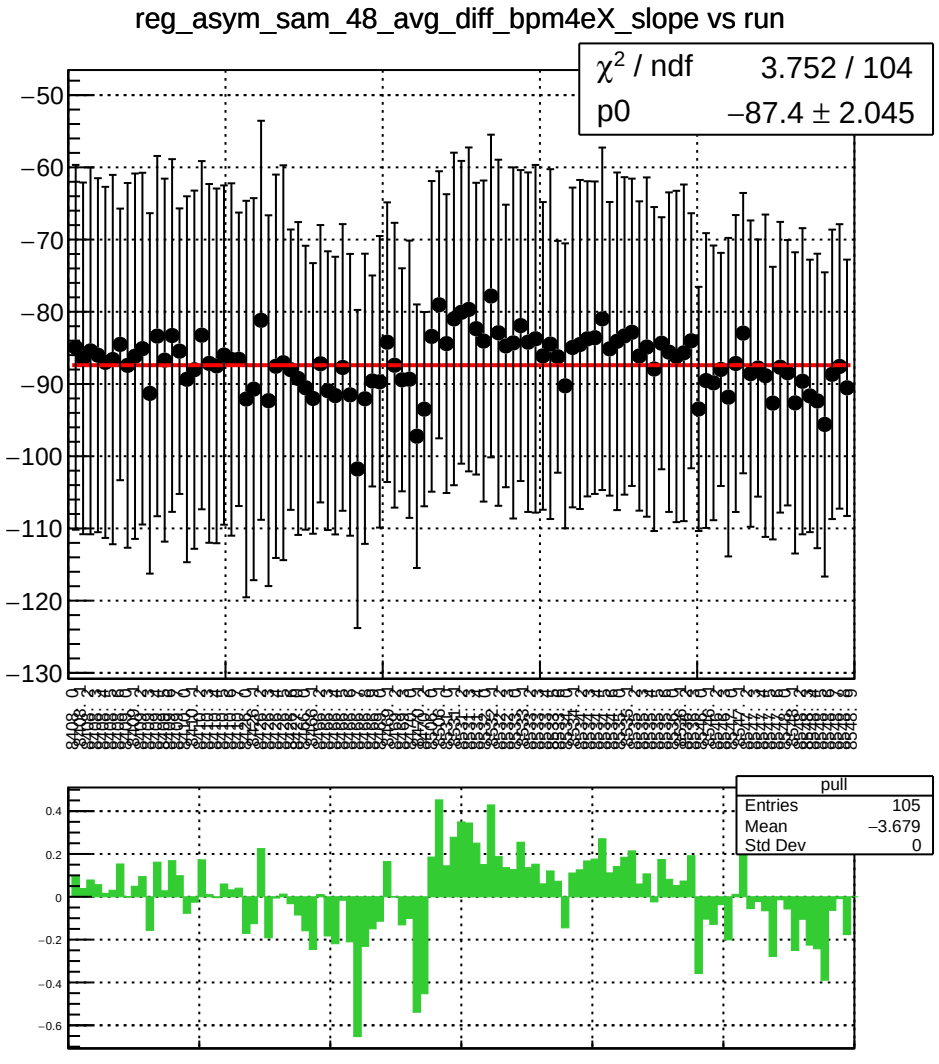

pull1D
Entries 105
Mean −0.03344
Std Dev 0.4752

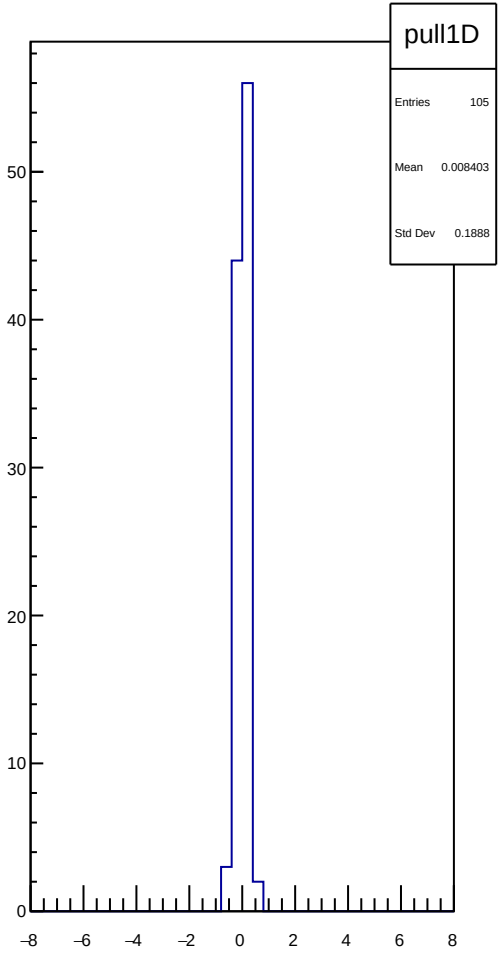

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 6.723 / 104
p0 5.333 ± 0.254
pull
Entries 105
Mean 571.9
Std Dev 0
pull1D
Entries 105
Mean 0.008986
Std Dev 0.2529

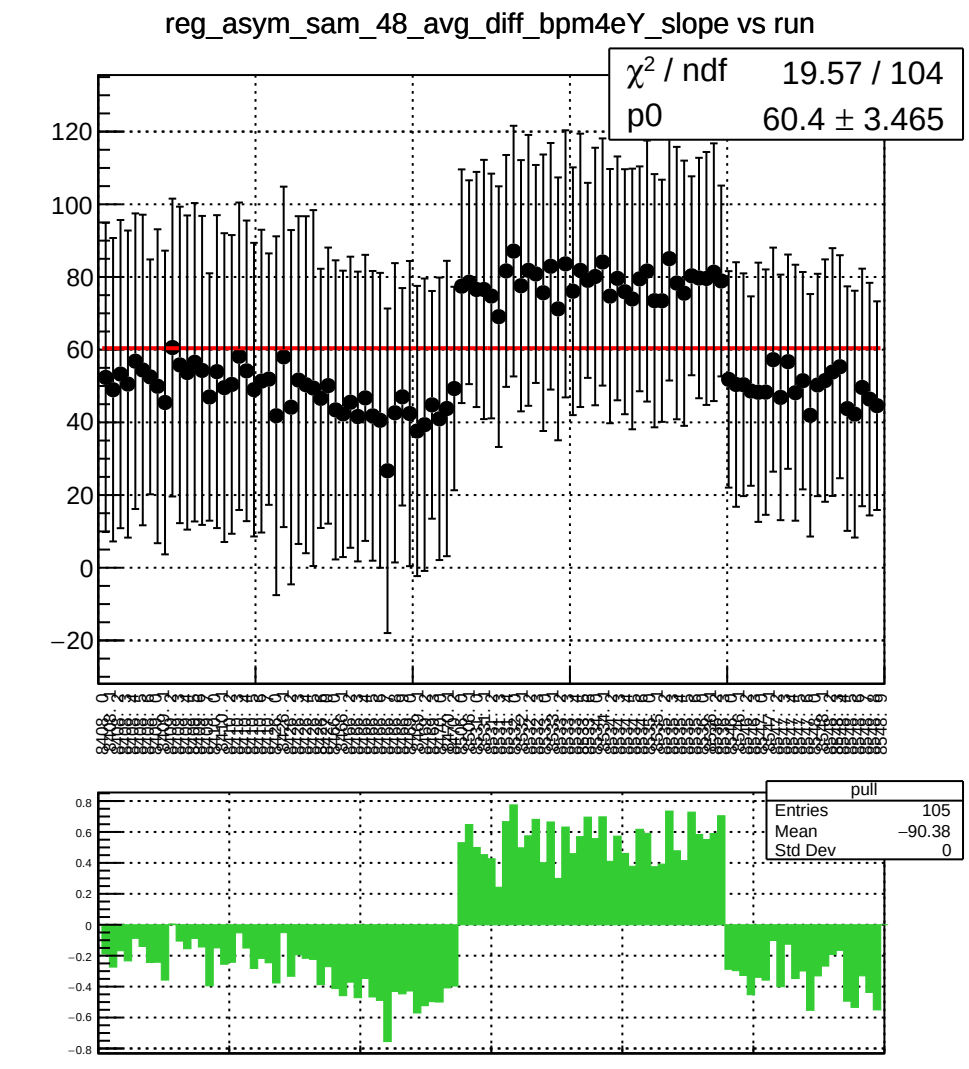

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 8.995 / 104
p0 −7.288 ± 1.861
pull
Entries 105
Mean 13.6
Std Dev 0

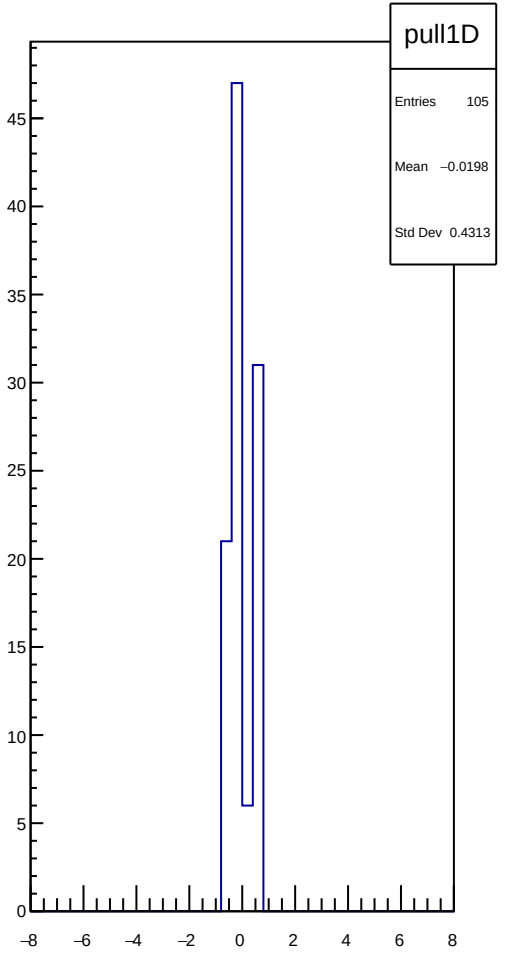

pull1D
Entries 105
Mean −0.03212
Std Dev 0.2909

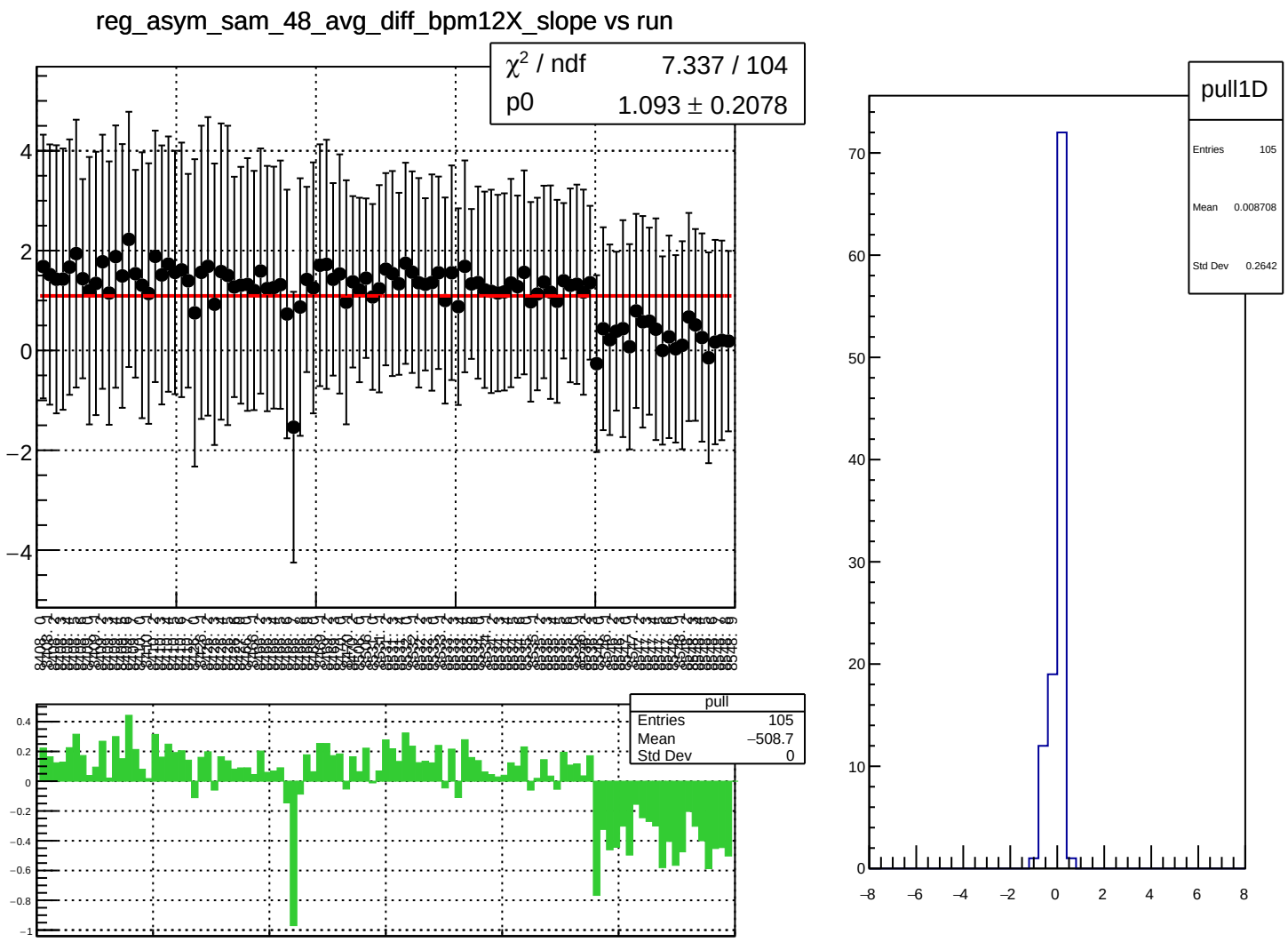

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 16.09 / 104
p0 47.62 ± 3.258
120
100
80
60
40
20
0
pull
Entries 105
Mean −101.3
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 105
Mean 0.02511
Std Dev 0.3907
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

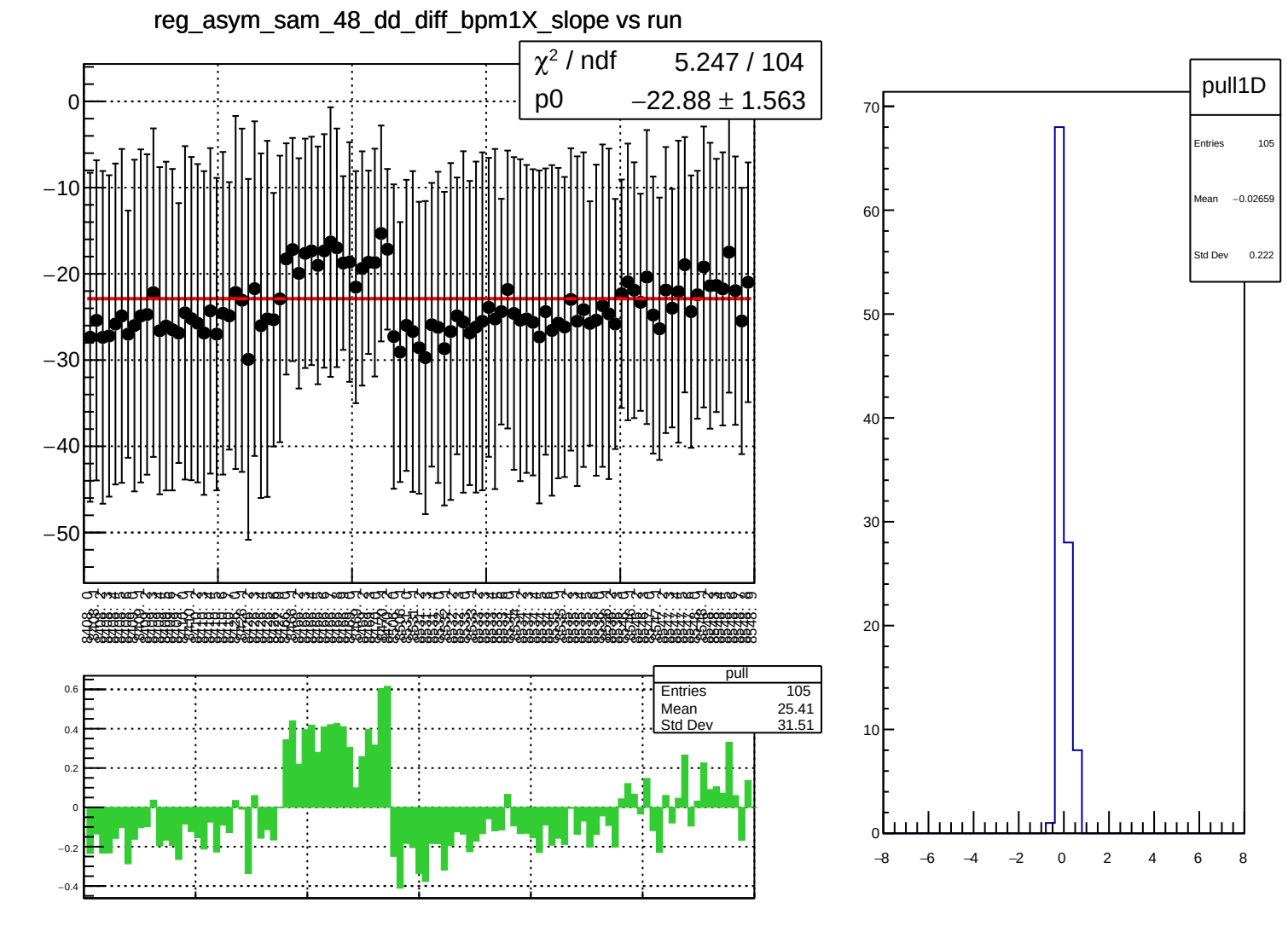

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.752 / 104
p0 −87.4 ± 2.045
−50
−60
−70
−80
−90
−100
−110
−120
−130
pull
Entries 105
Mean −3.679
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6

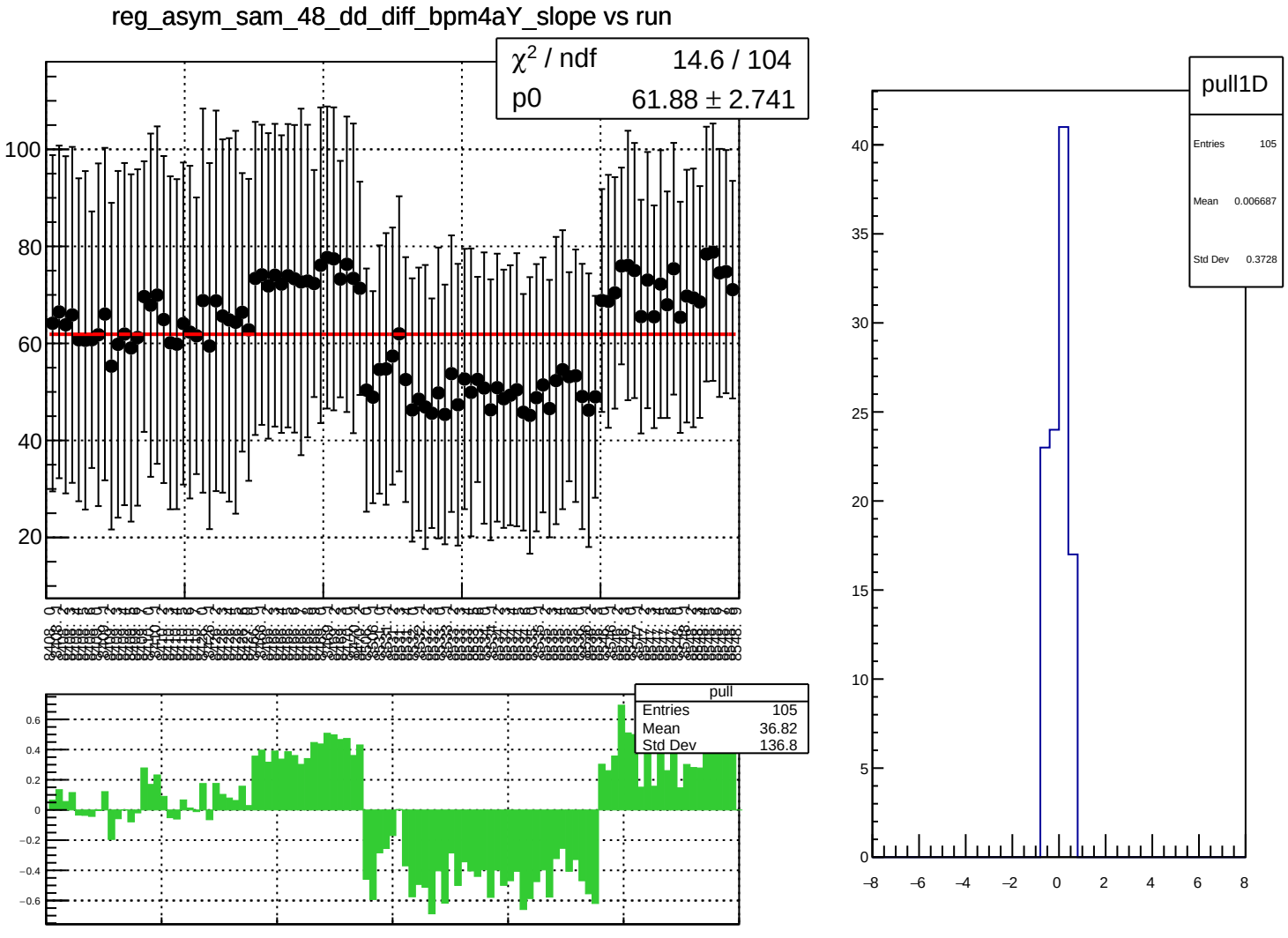

pull1D
Entries 105
Mean 0.008403
Std Dev 0.1888
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

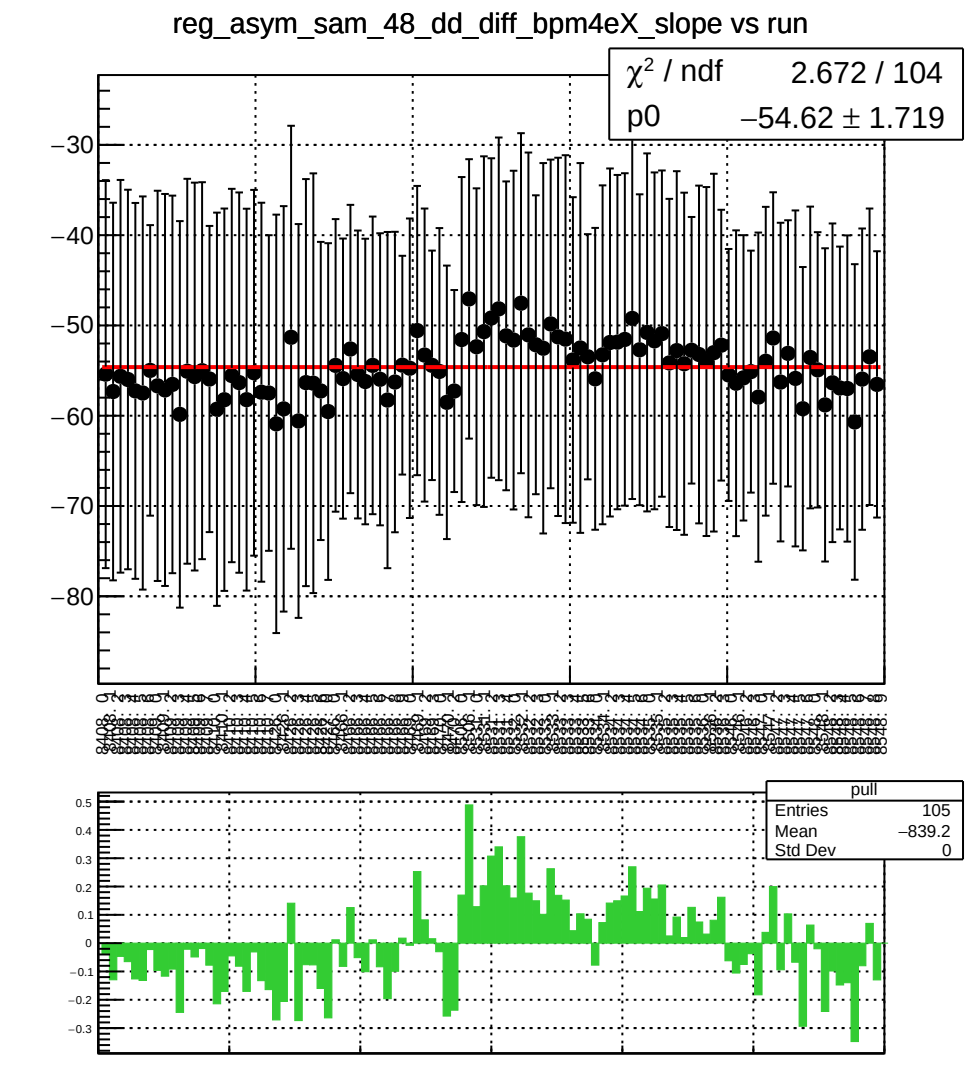

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 19.57 / 104
p0 60.4 ± 3.465
120
100
80
60
40
20
0
−20
pull
Entries 105
Mean −90.38
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

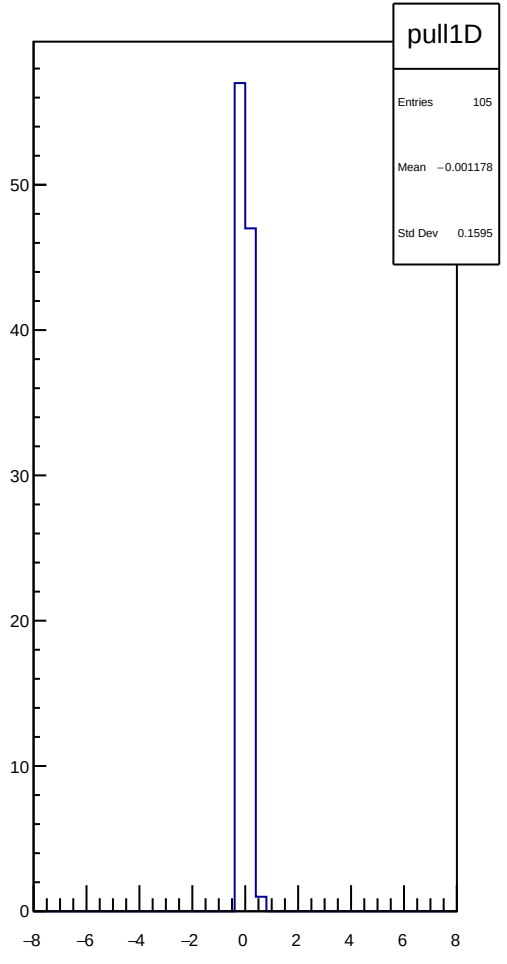

pull1D
Entries 105
Mean −0.0198
Std Dev 0.4313
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

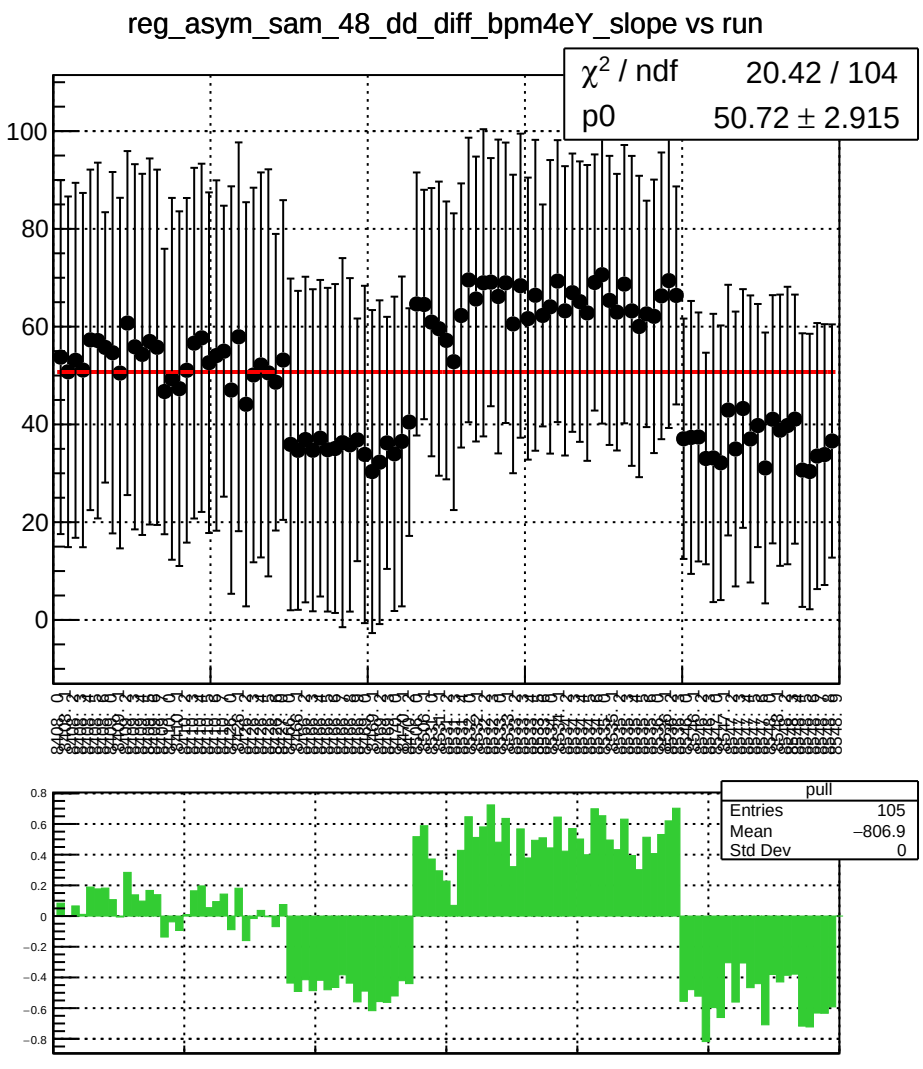

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 7.337 / 104
p0 1.093 ± 0.2078
pull
Entries 105
Mean −508.7
Std Dev 0
pull1D
Entries 105
Mean 0.008708
Std Dev 0.2642

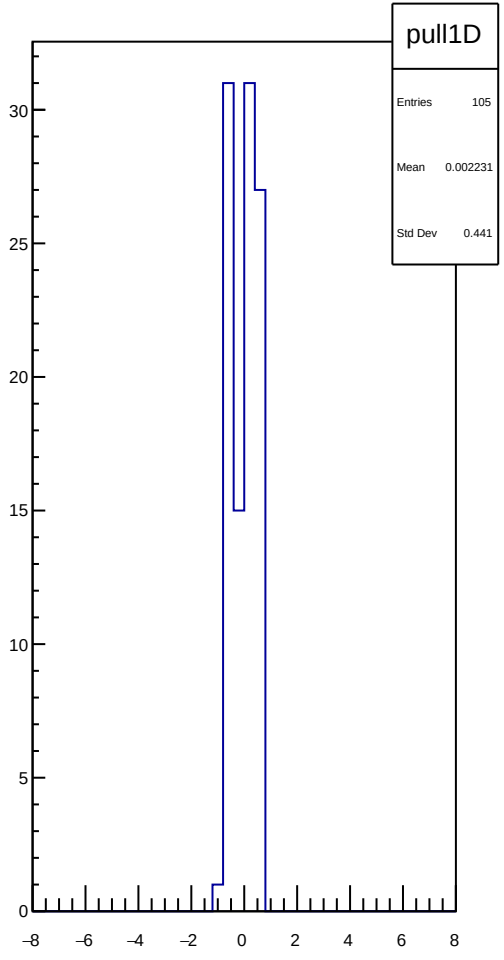

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 5.247 / 104
p0 −22.88 ± 1.563
0
−10
−20
−30
−40
−50
pull
Entries 105
Mean 25.41
Std Dev 31.51
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 105
Mean −0.02659
Std Dev 0.222
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

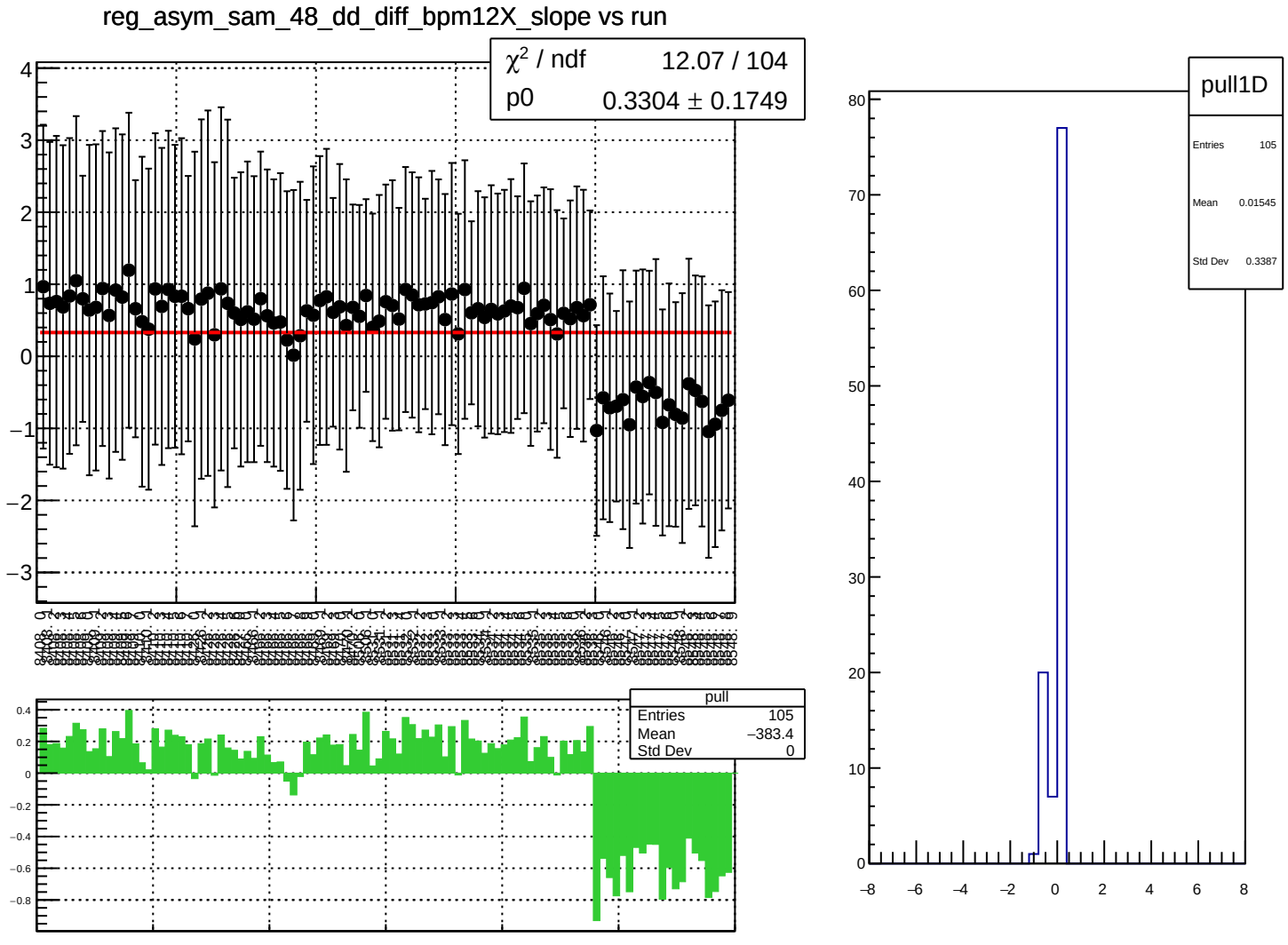

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.6 / 104
p0 61.88 ± 2.741
pull
Entries 105
Mean 36.82
Std Dev 136.8
pull1D
Entries 105
Mean 0.006687
Std Dev 0.3728

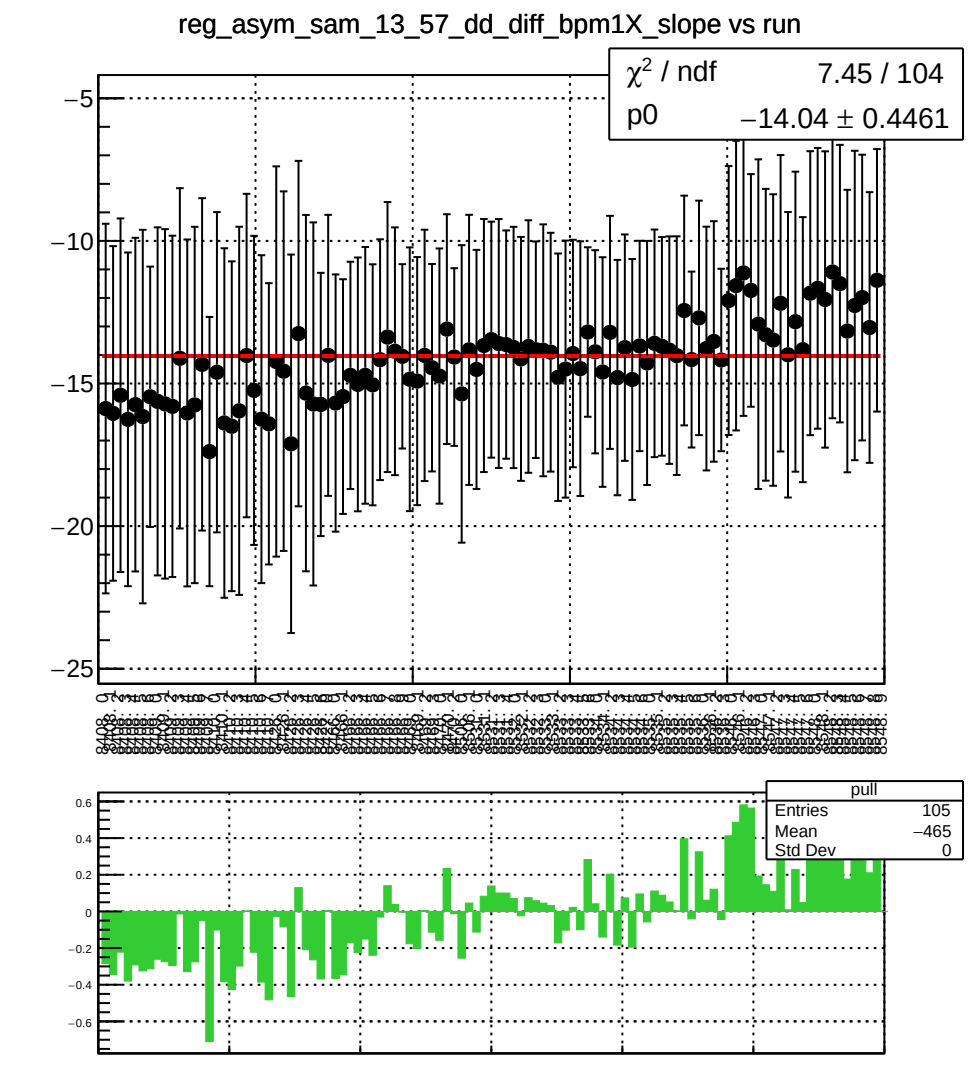

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.672 / 104
p0 −54.62 ± 1.719
−30
−40
−50
−60
−70
−80
pull
Entries 105
Mean −839.2
Std Dev 0
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

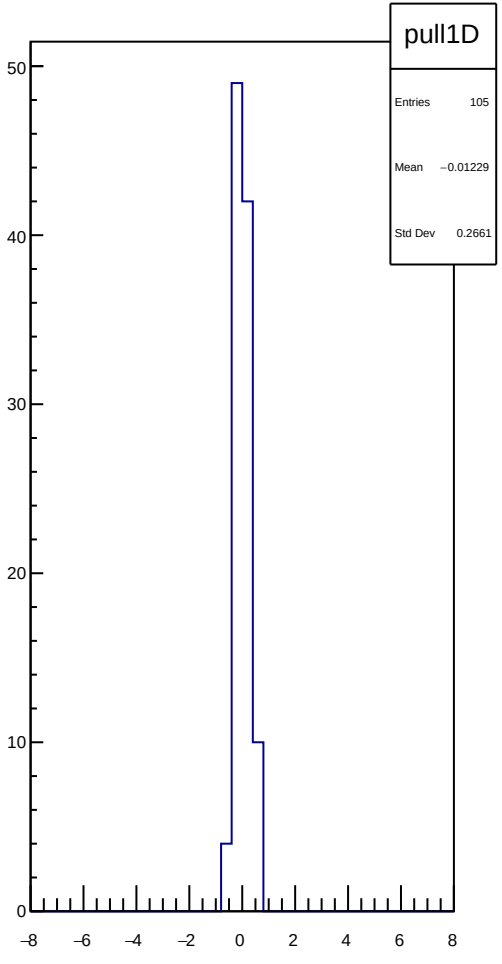

pull1D
Entries 105
Mean −0.001178
Std Dev 0.1595
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

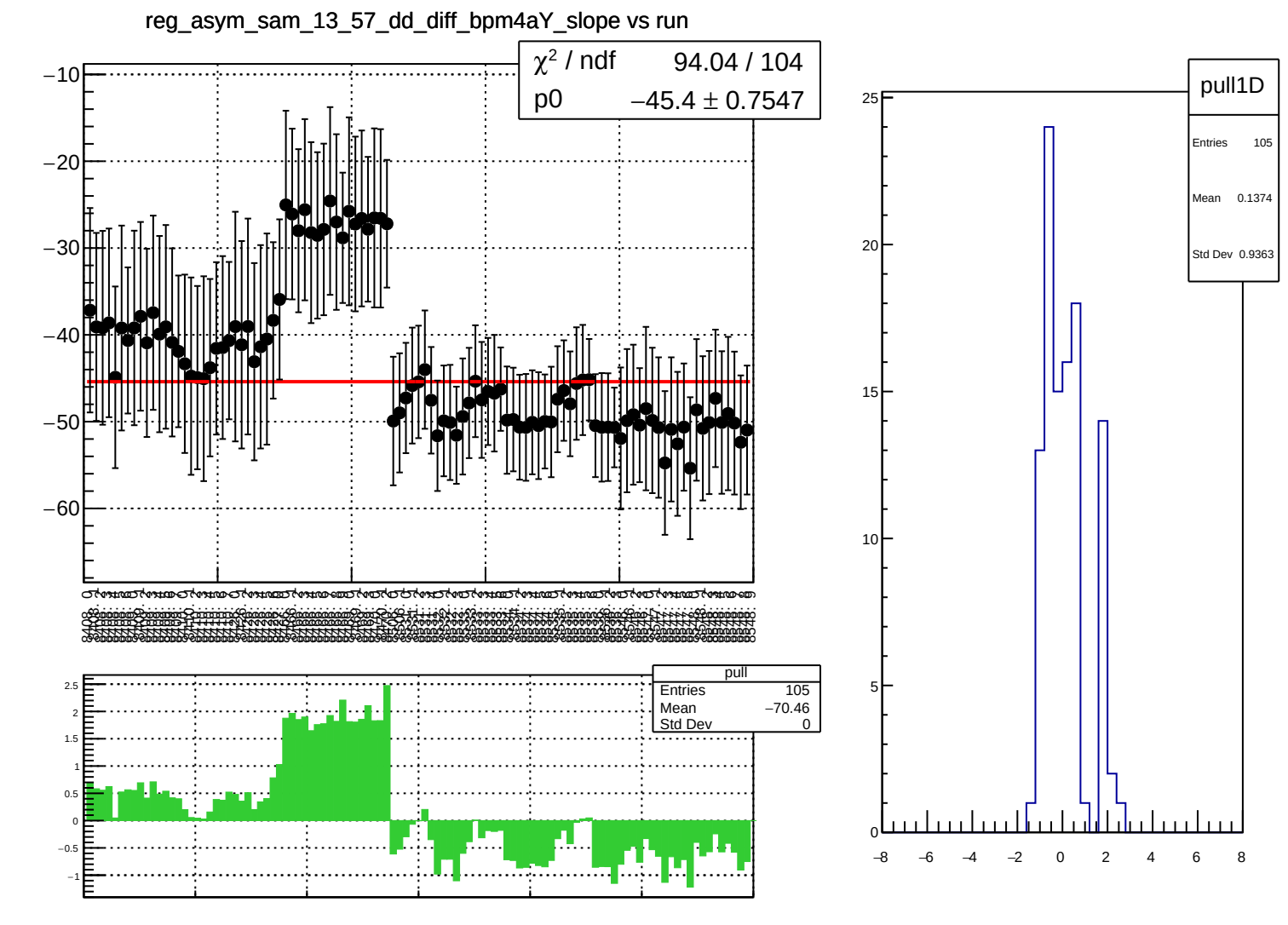

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 20.42 / 104
p0 50.72 ± 2.915
100
80
60
40
20
0
pull
Entries 105
Mean –806.9
Std Dev 0
0.8
0.6
0.4
0.2
0
–0.2
–0.4
–0.6
–0.8

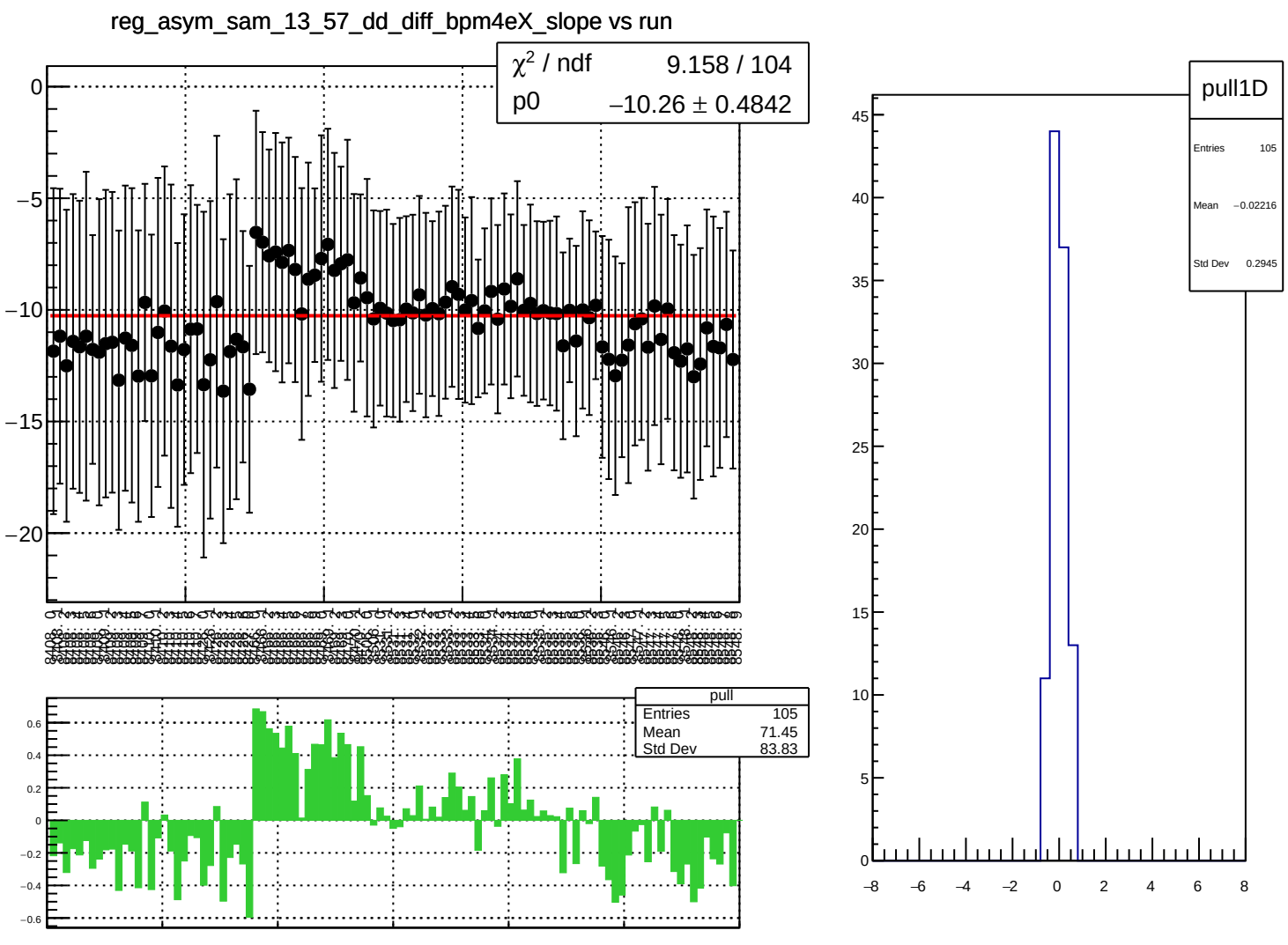

pull1D
Entries 105
Mean 0.002231
Std Dev 0.441
30
25
20
15
10
5
0
–8
–6
–4
–2
0
2
4
6
8

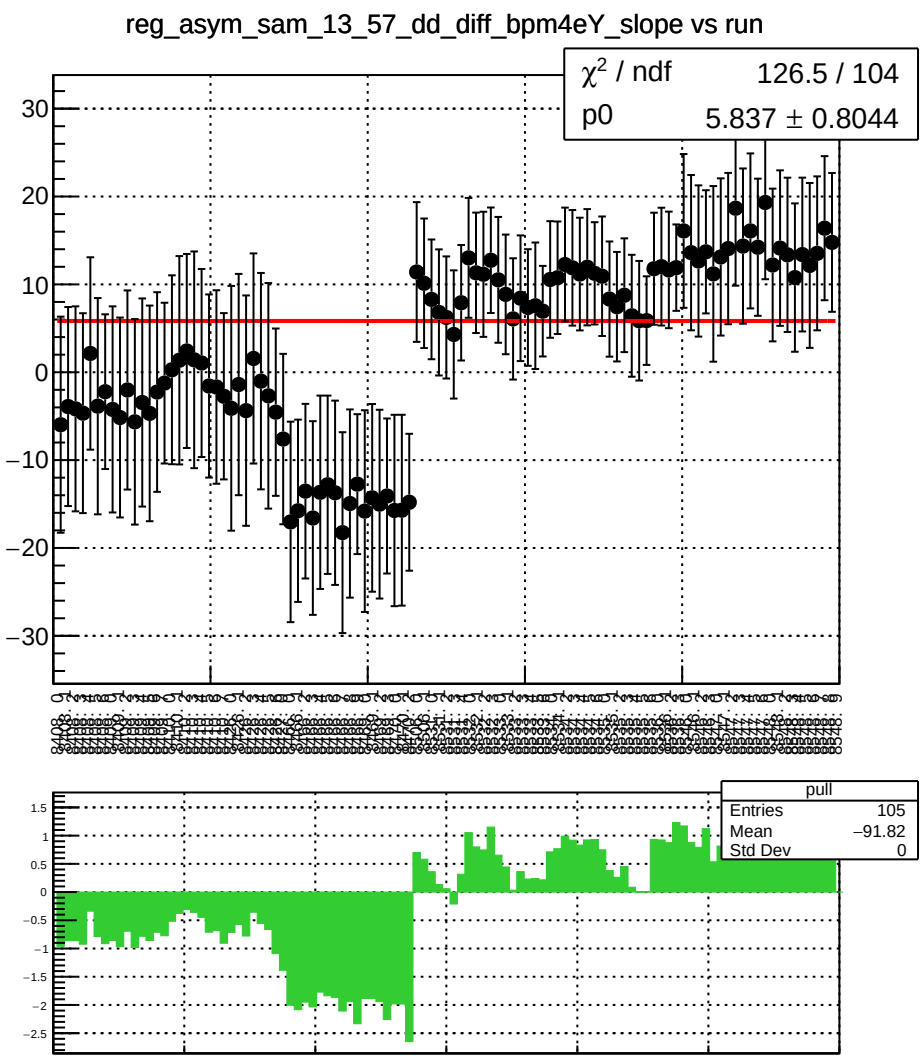

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 12.07 / 104
p0 0.3304 ± 0.1749
pull
Entries 105
Mean −383.4
Std Dev 0
pull1D
Entries 105
Mean 0.01545
Std Dev 0.3387

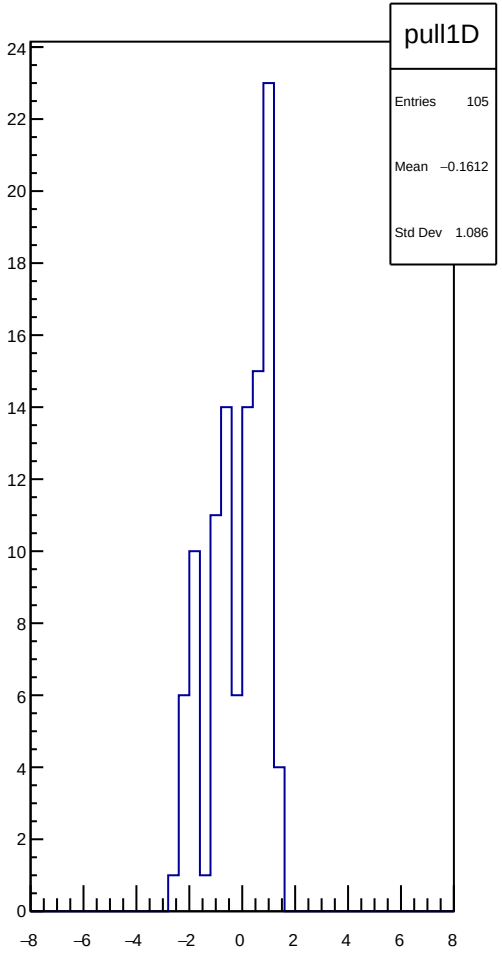

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 7.45 / 104
p0 −14.04 ± 0.4461
−5
−10
−15
−20
−25
pull
Entries 105
Mean −465
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

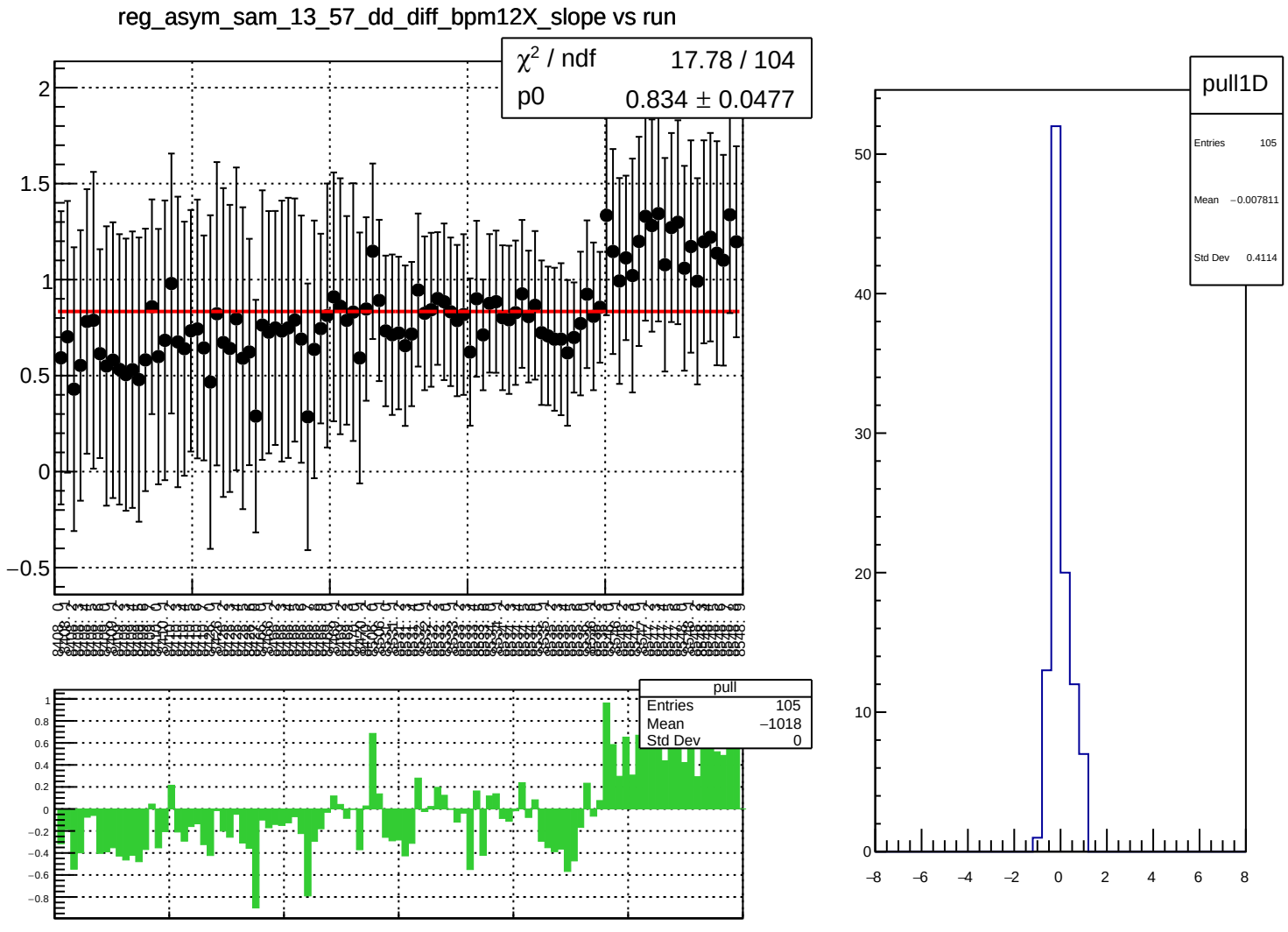

pull1D
Entries 105
Mean −0.01229
Std Dev 0.2661
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

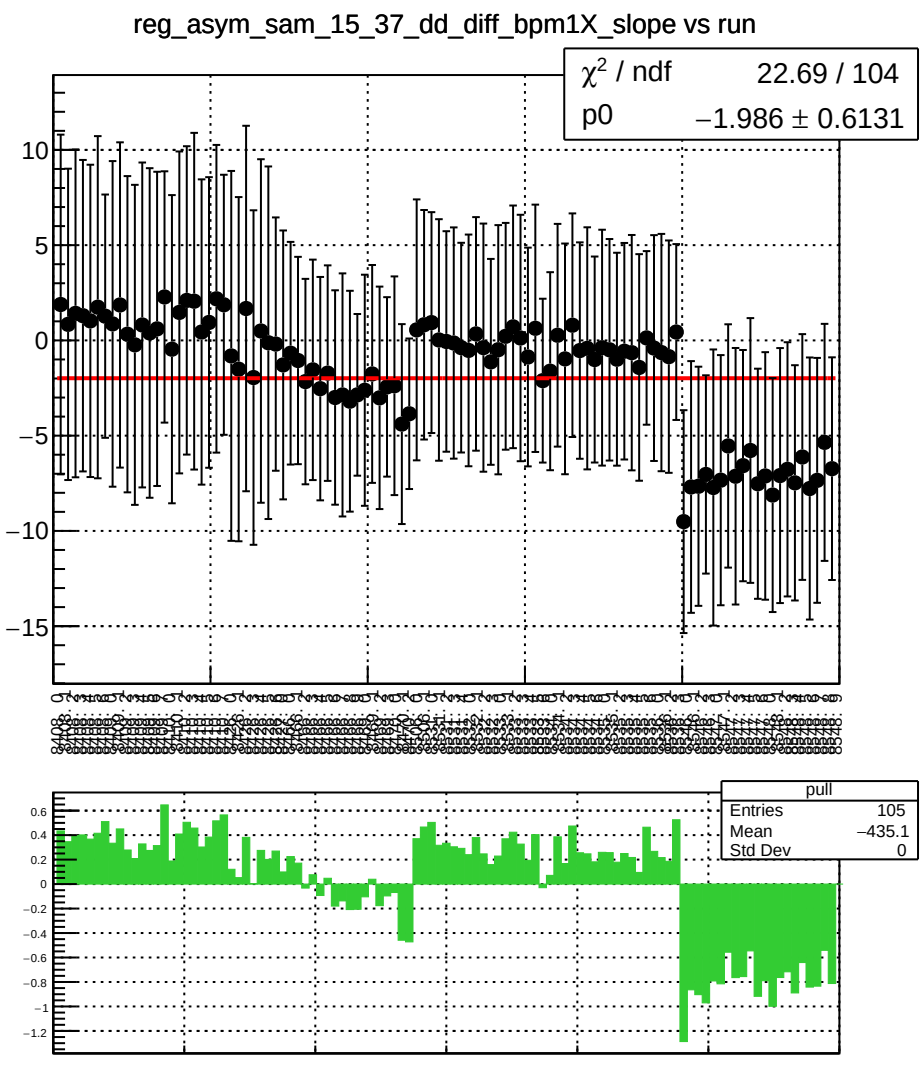

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 94.04 / 104
p0 −45.4 ± 0.7547
−10
−20
−30
−40
−50
−60
pull
Entries 105
Mean −70.46
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 105
Mean 0.1374
Std Dev 0.9363
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

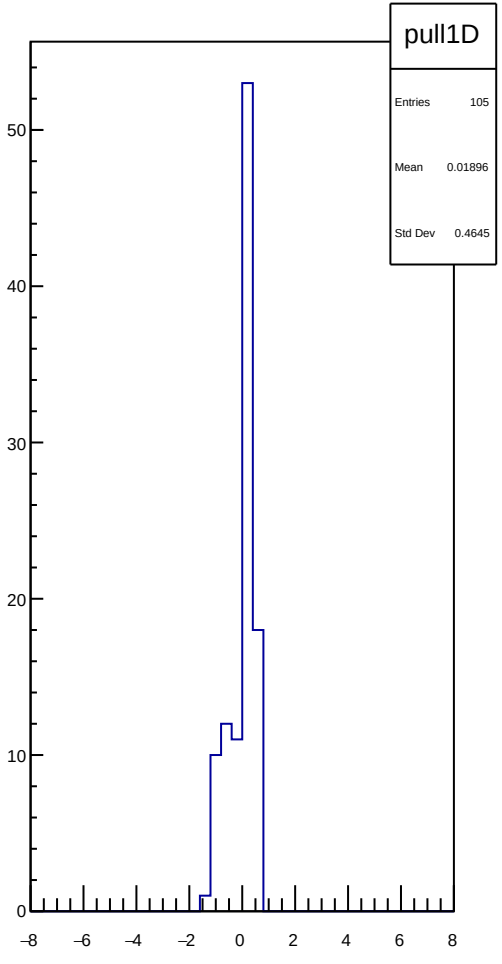

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 9.158 / 104
p0 −10.26 ± 0.4842
pull
Entries 105
Mean 71.45
Std Dev 83.83
pull1D
Entries 105
Mean −0.02216
Std Dev 0.2945

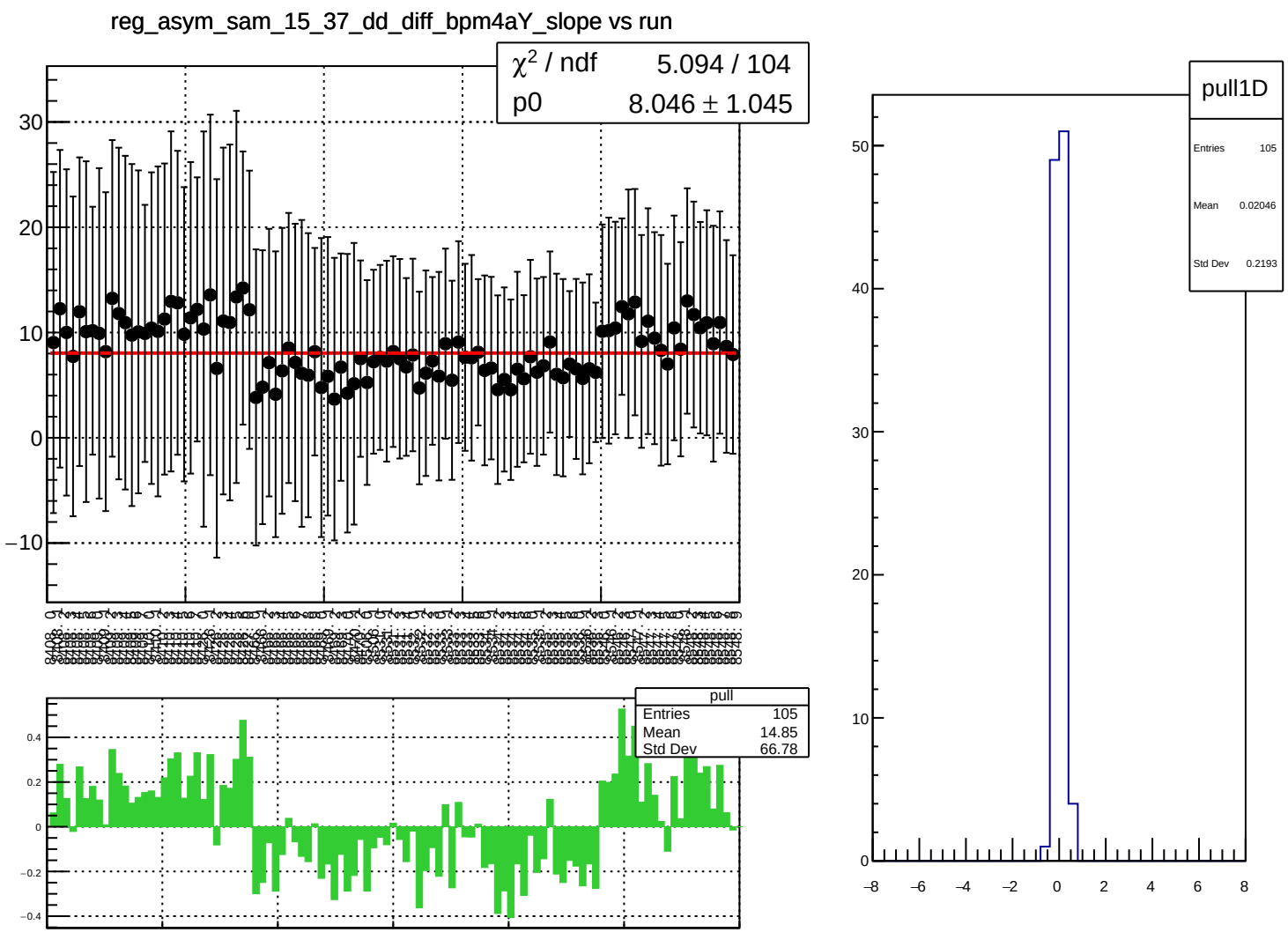

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 126.5 / 104
p0 5.837 ± 0.8044
pull
Entries 105
Mean −91.82
Std Dev 0

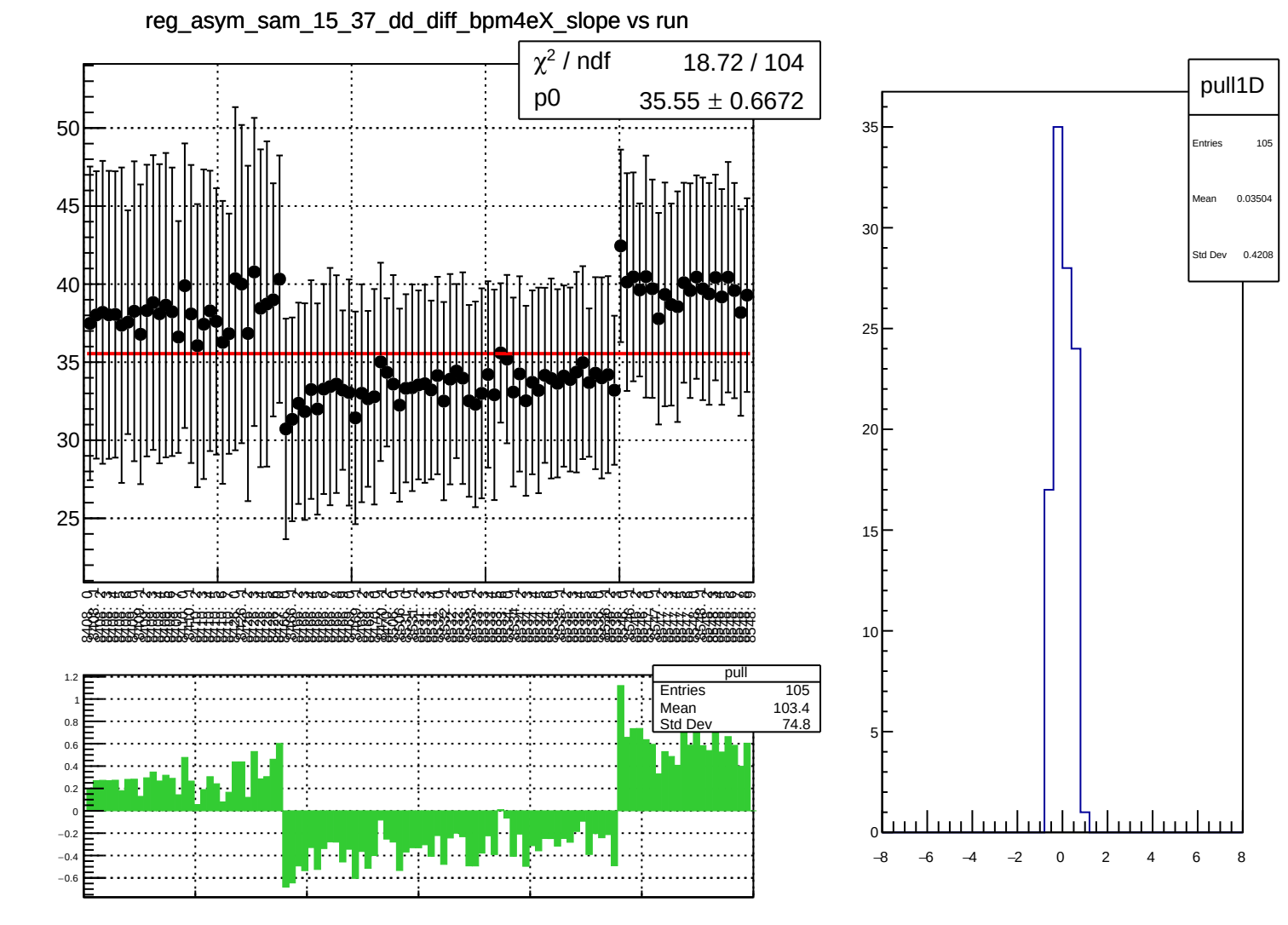

pull1D
Entries 105
Mean −0.1612
Std Dev 1.086

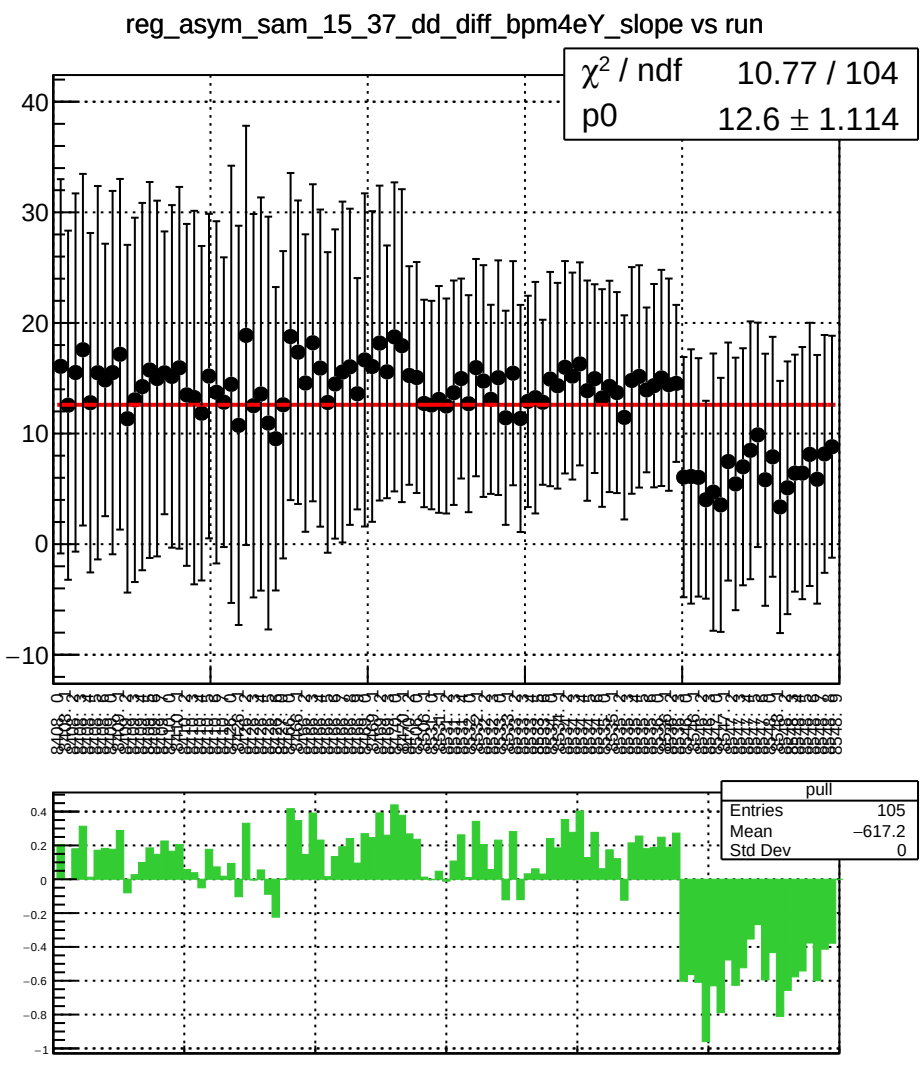

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 17.78 / 104
p0 0.834 ± 0.0477
pull
Entries 105
Mean −1018
Std Dev 0
pull1D
Entries 105
Mean −0.007811
Std Dev 0.4114

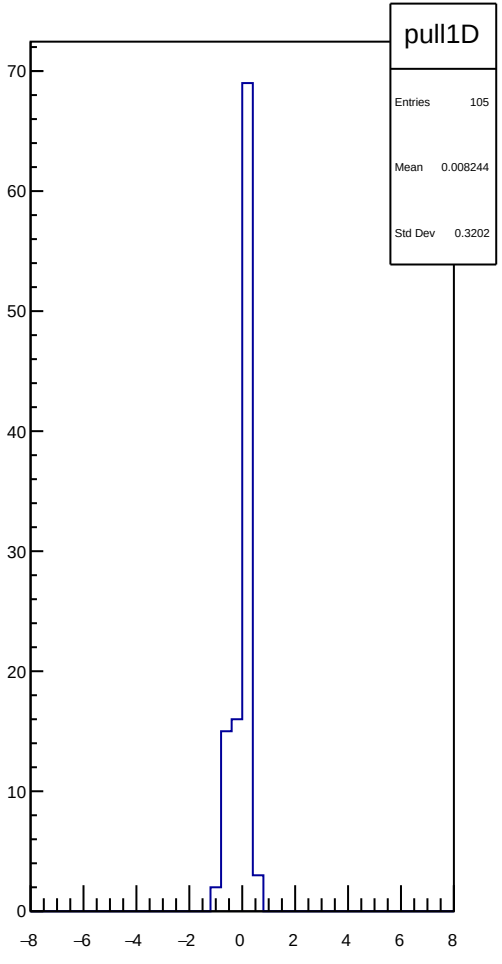

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 22.69 / 104
p0 −1.986 ± 0.6131
pull
Entries 105
Mean −435.1
Std Dev 0

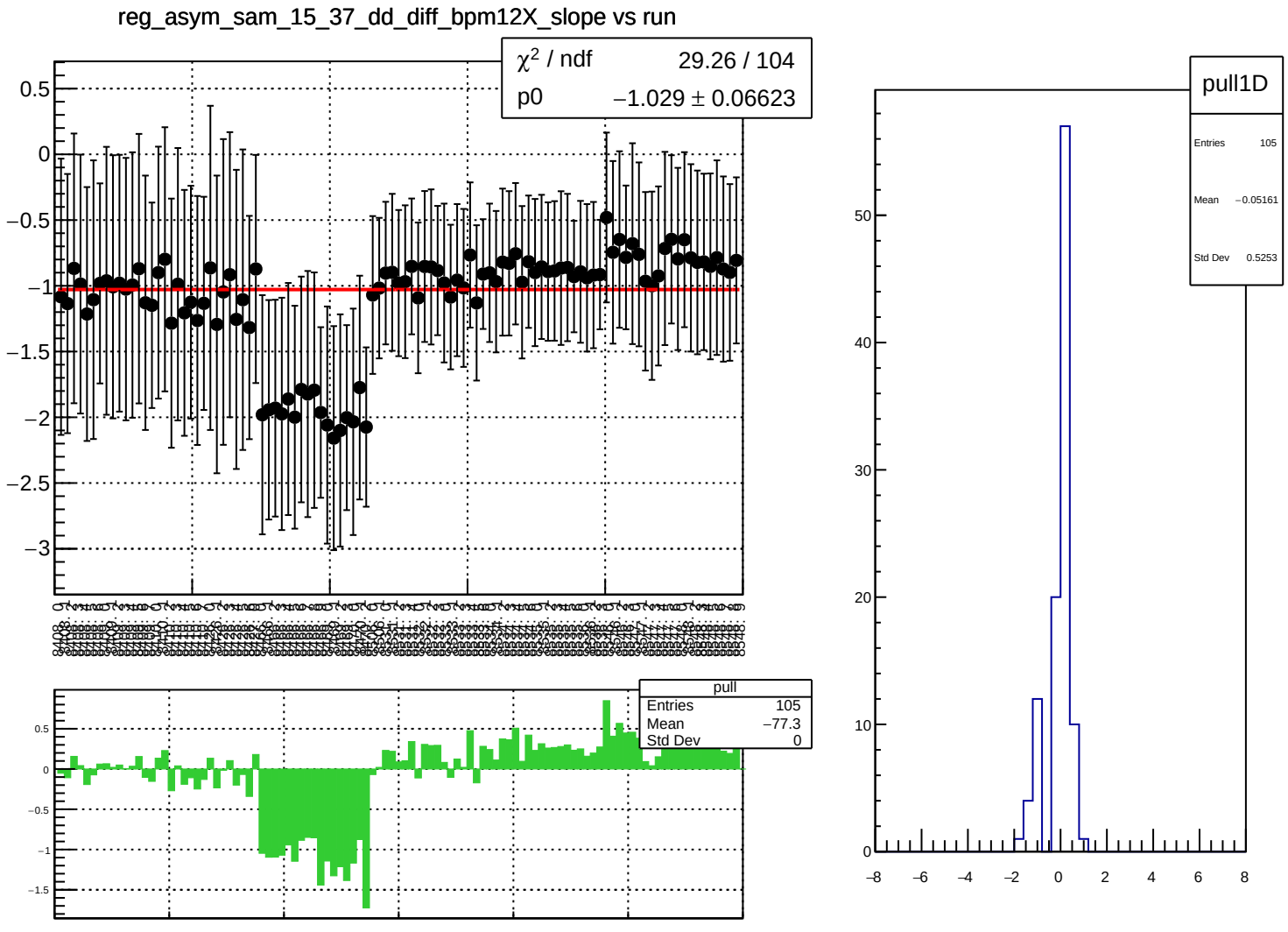

pull1D
Entries 105
Mean 0.01896
Std Dev 0.4645

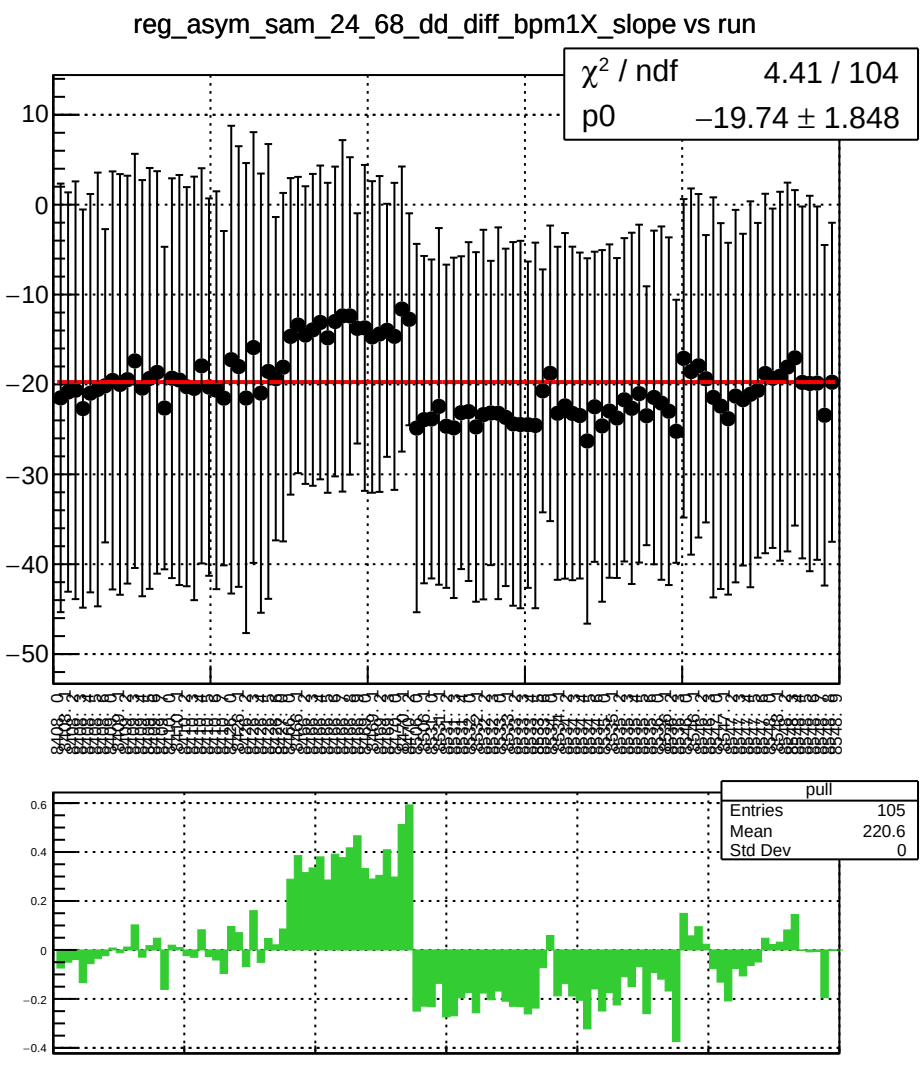

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.094 / 104
p0 8.046 ± 1.045
30
20
10
0
−10
pull
Entries 105
Mean 14.85
Std Dev 66.78
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 105
Mean 0.02046
Std Dev 0.2193
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

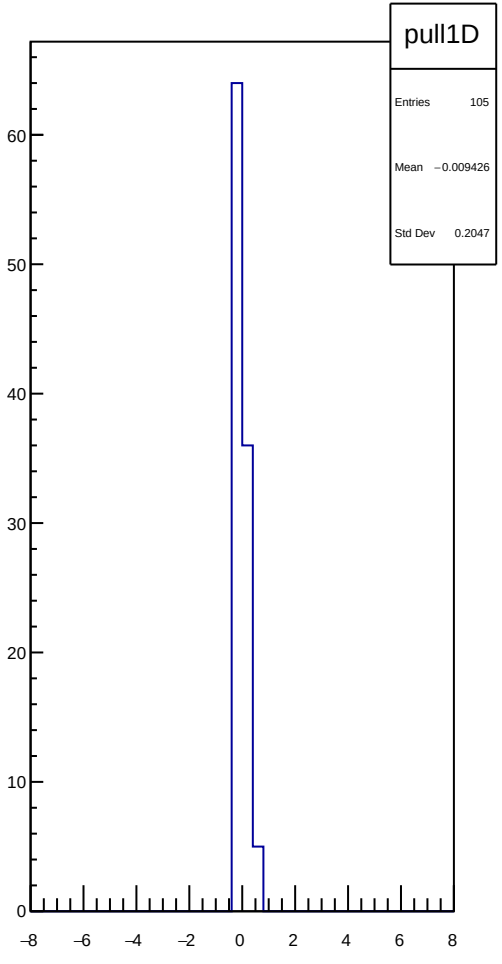

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 18.72 / 104
p0 35.55 ± 0.6672
pull
Entries 105
Mean 103.4
Std Dev 74.8
pull1D
Entries 105
Mean 0.03504
Std Dev 0.4208

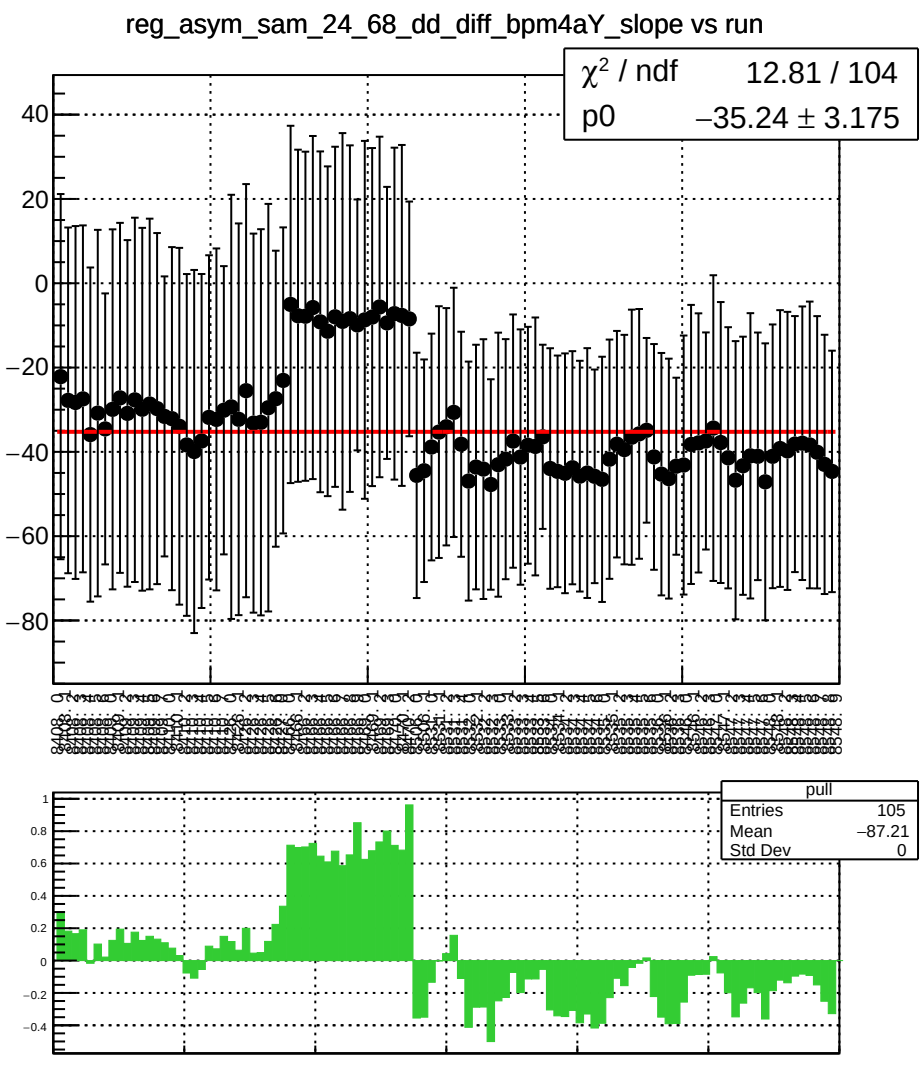

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 10.77 / 104
p0 12.6 ± 1.114
pull
Entries 105
Mean −617.2
Std Dev 0

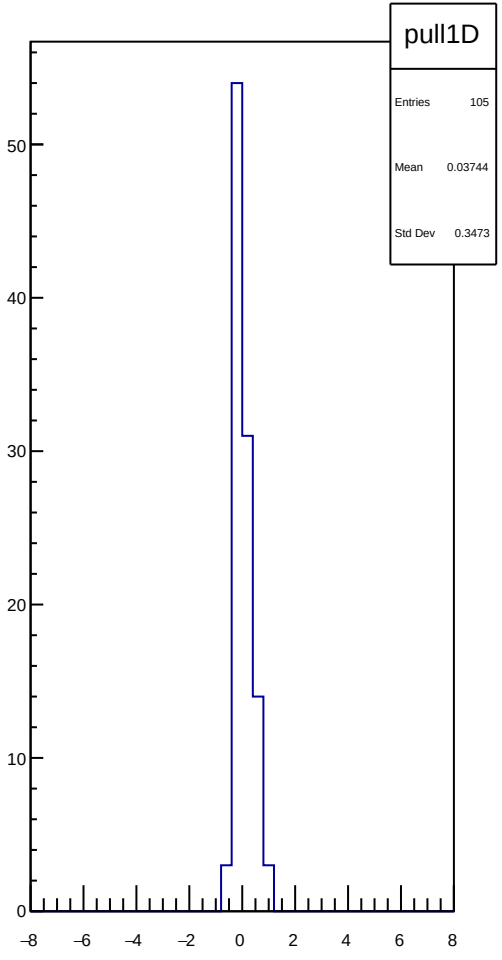

pull1D
Entries 105
Mean 0.008244
Std Dev 0.3202

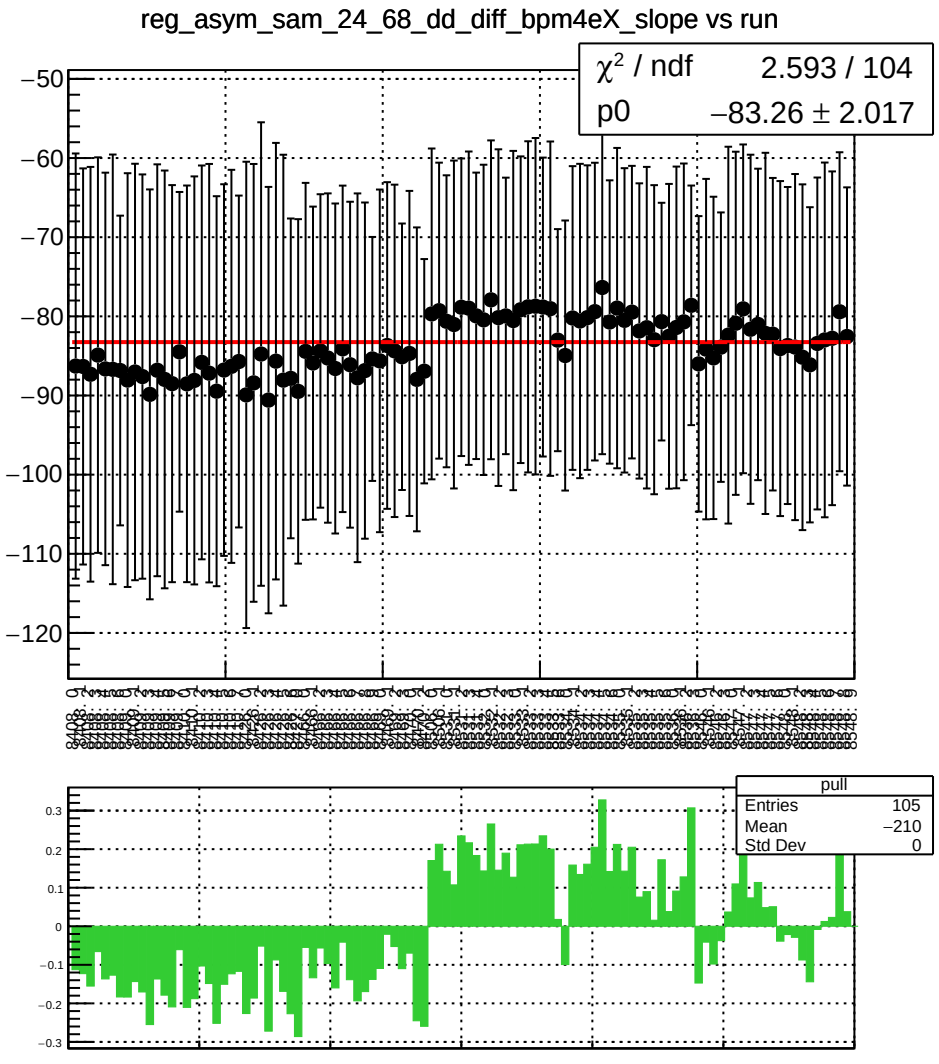

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 29.26 / 104
p0 −1.029 ± 0.06623
pull
Entries 105
Mean −77.3
Std Dev 0
pull1D
Entries 105
Mean −0.05161
Std Dev 0.5253

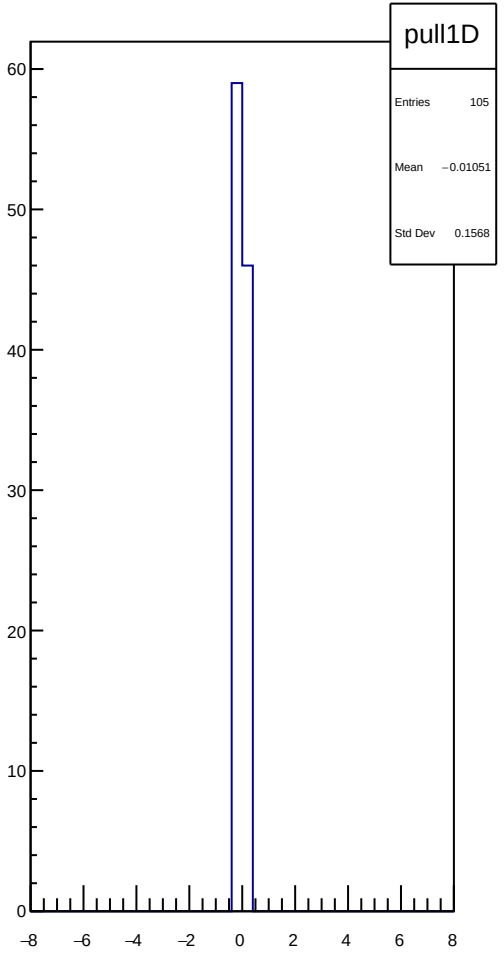

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 4.41 / 104
p0 −19.74 ± 1.848
pull
Entries 105
Mean 220.6
Std Dev 0

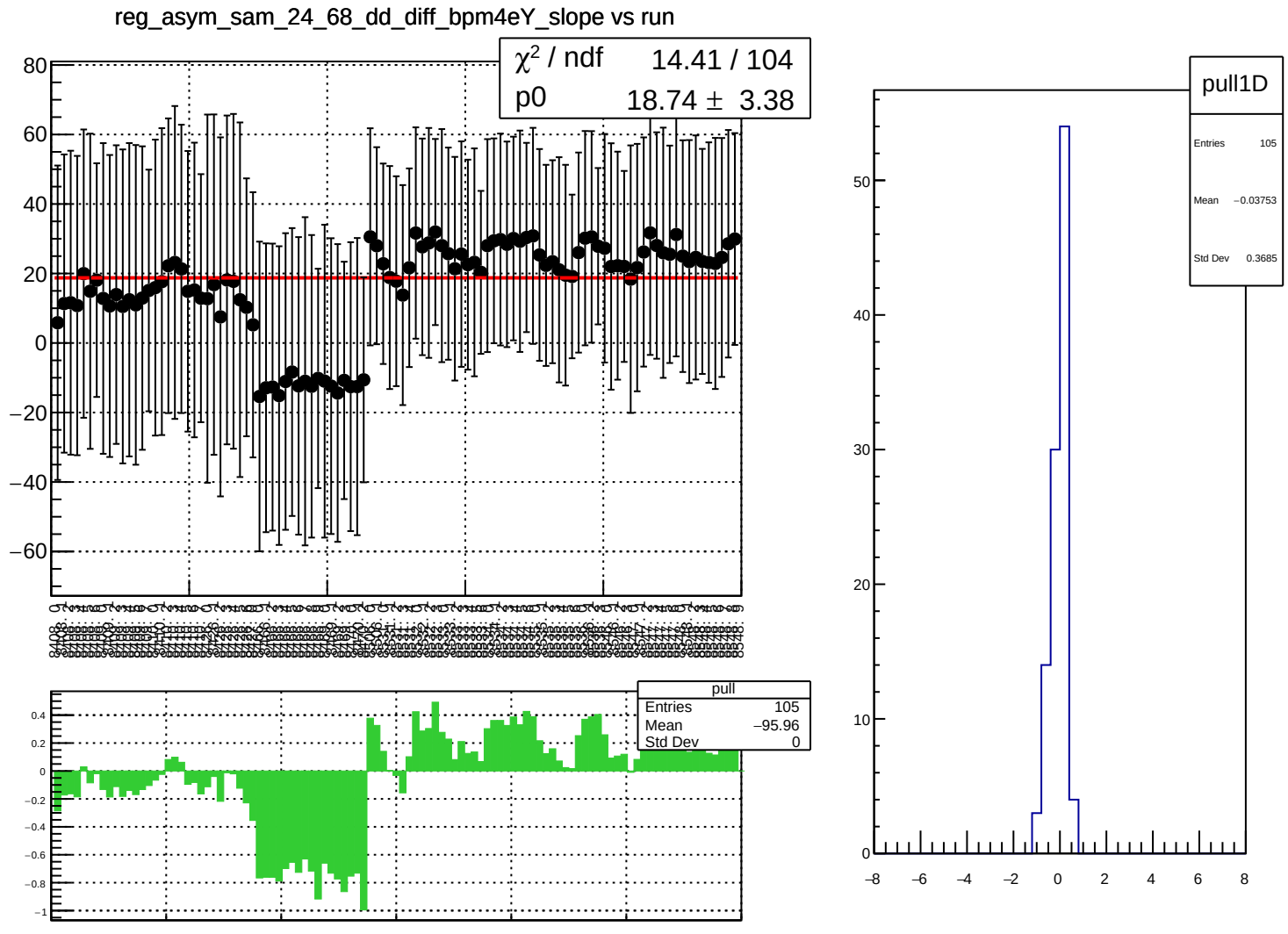

pull1D
Entries 105
Mean −0.009426
Std Dev 0.2047

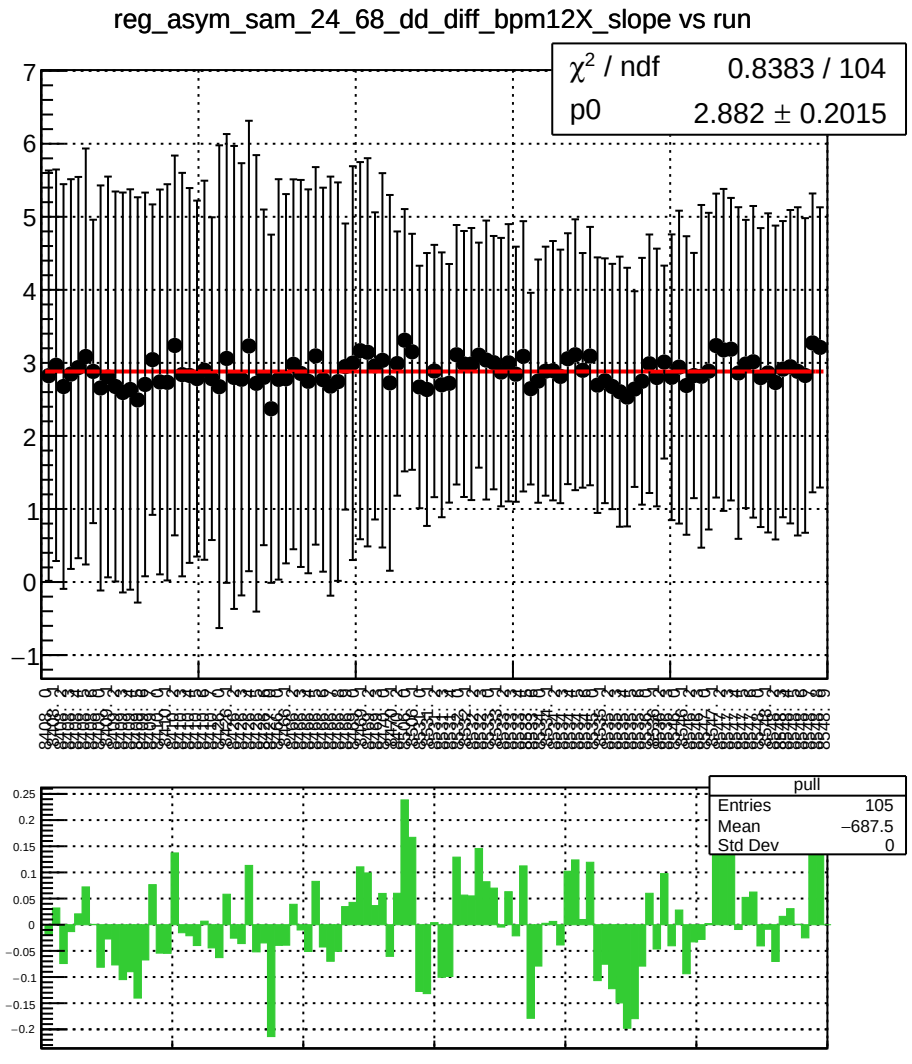

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 12.81 / 104
p0 −35.24 ± 3.175
40
20
0
−20
−40
−60
−80
pull
Entries 105
Mean −87.21
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4

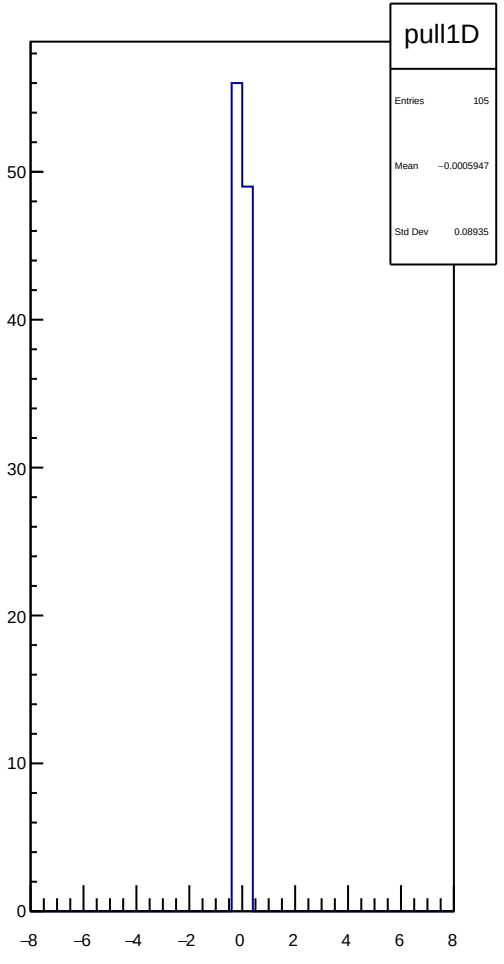

pull1D
Entries 105
Mean 0.03744
Std Dev 0.3473
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

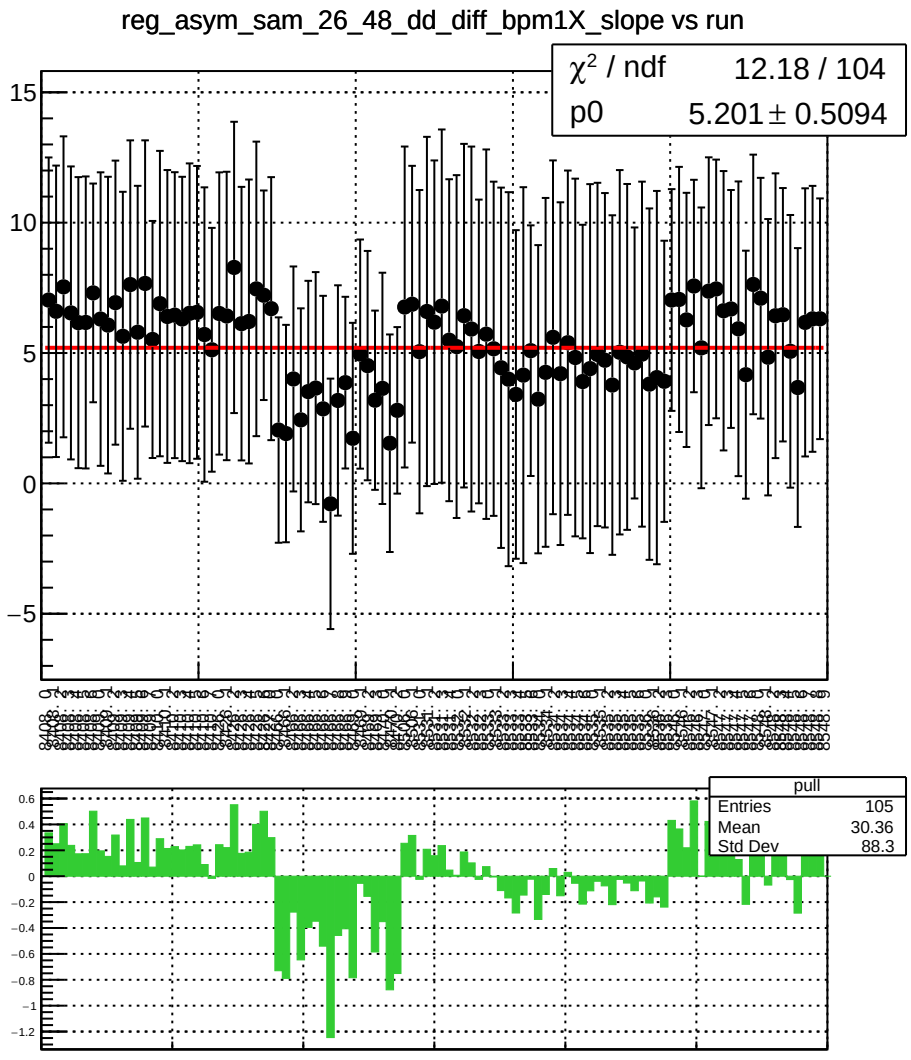

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 2.593 / 104
p0 −83.26 ± 2.017
−50
−60
−70
−80
−90
−100
−110
−120
pull
Entries 105
Mean −210
Std Dev 0
0.3
0.2
0.1
0
−0.1
−0.2
−0.3

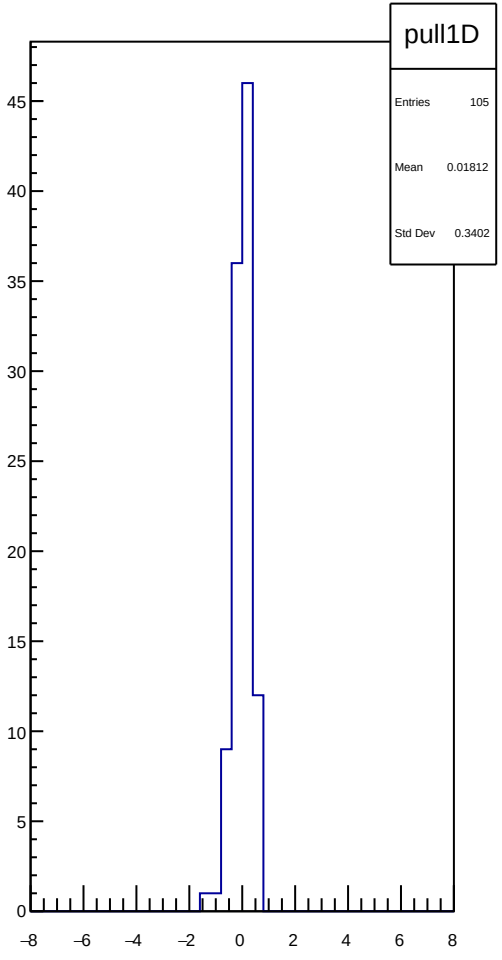

pull1D
Entries 105
Mean −0.01051
Std Dev 0.1568
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

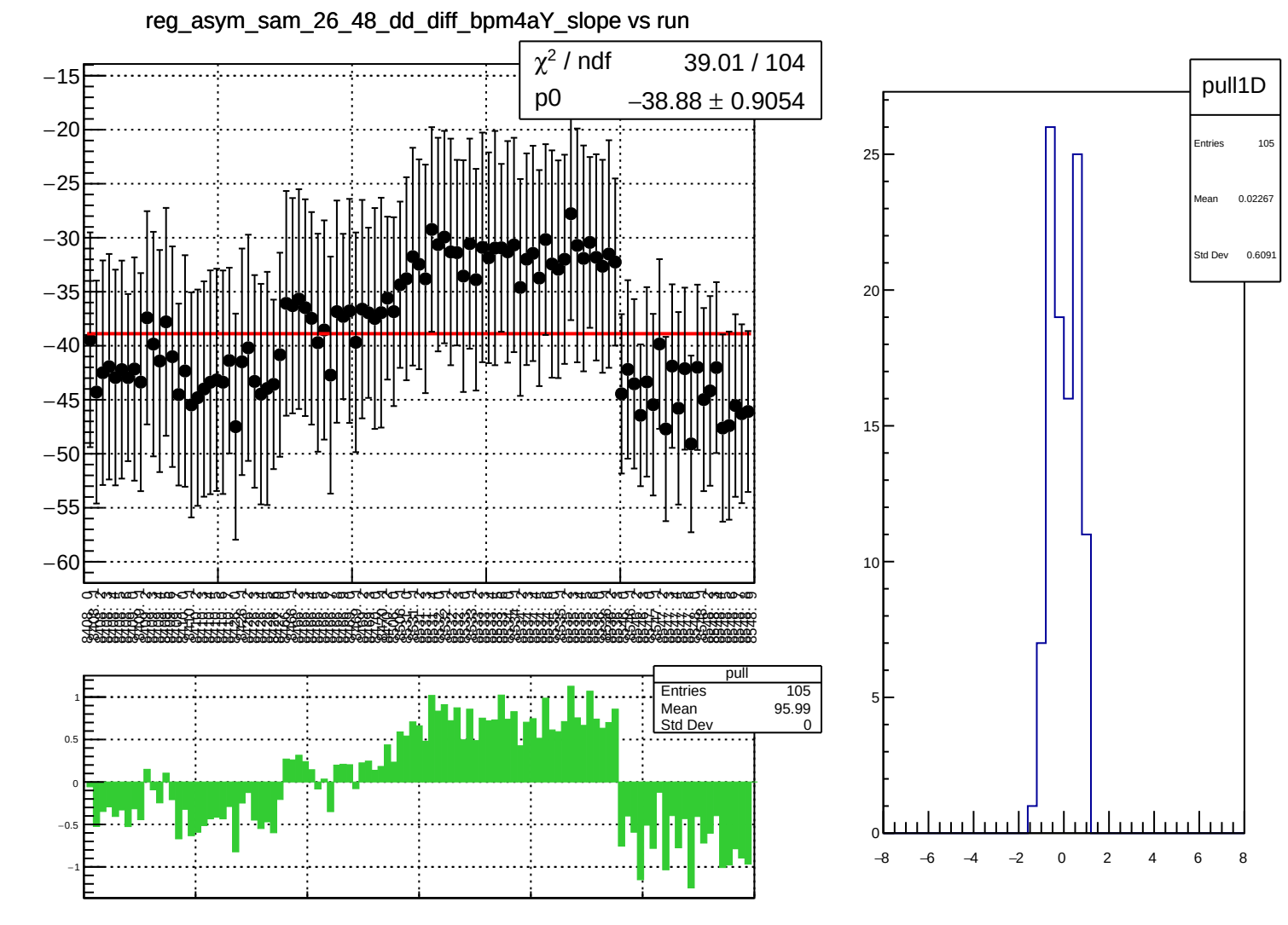

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 14.41 / 104
p0 18.74 ± 3.38
pull
Entries 105
Mean −95.96
Std Dev 0
pull1D
Entries 105
Mean −0.03753
Std Dev 0.3685

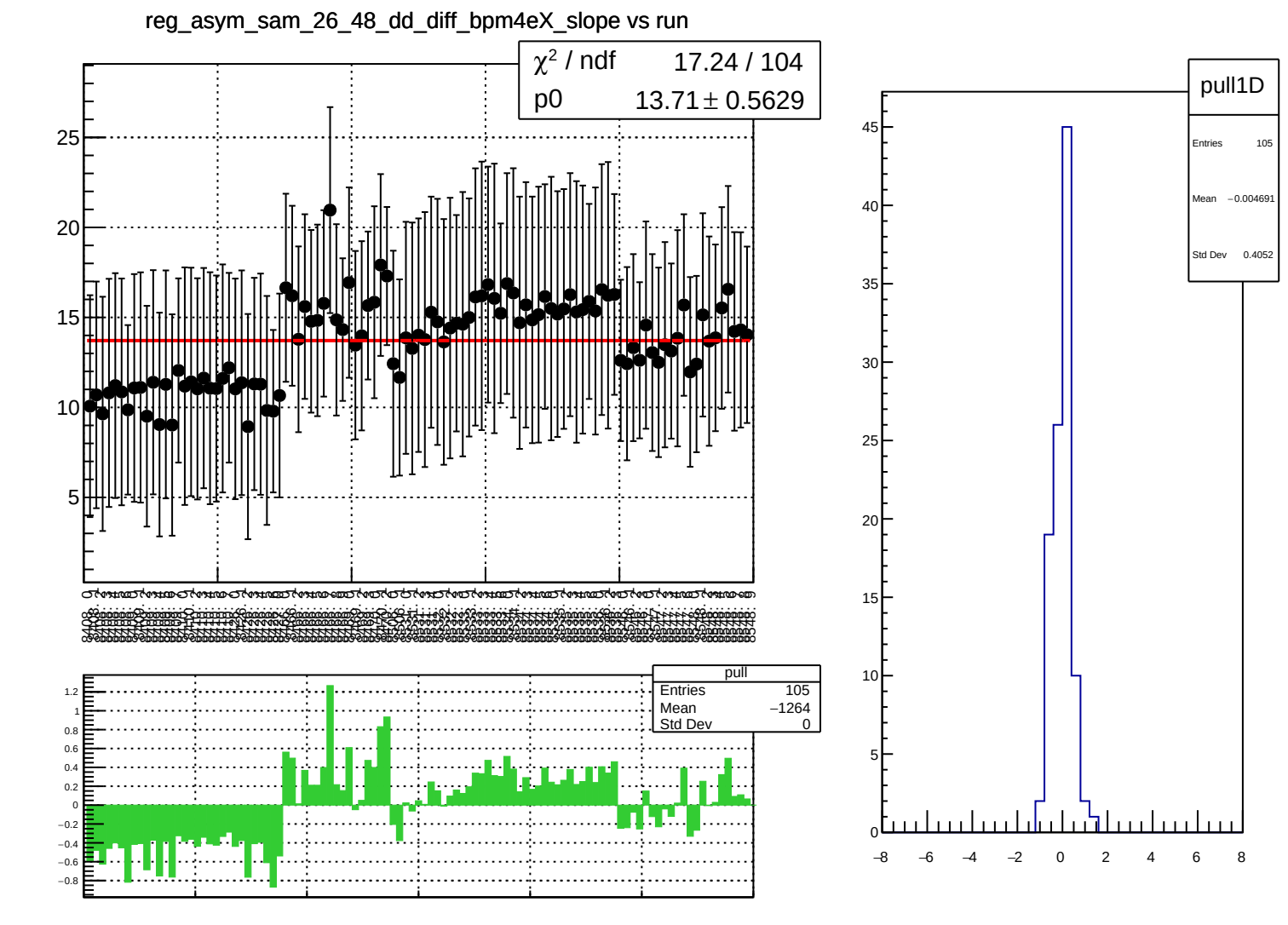

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 0.8383 / 104
p0 2.882 ± 0.2015
pull
Entries 105
Mean −687.5
Std Dev 0

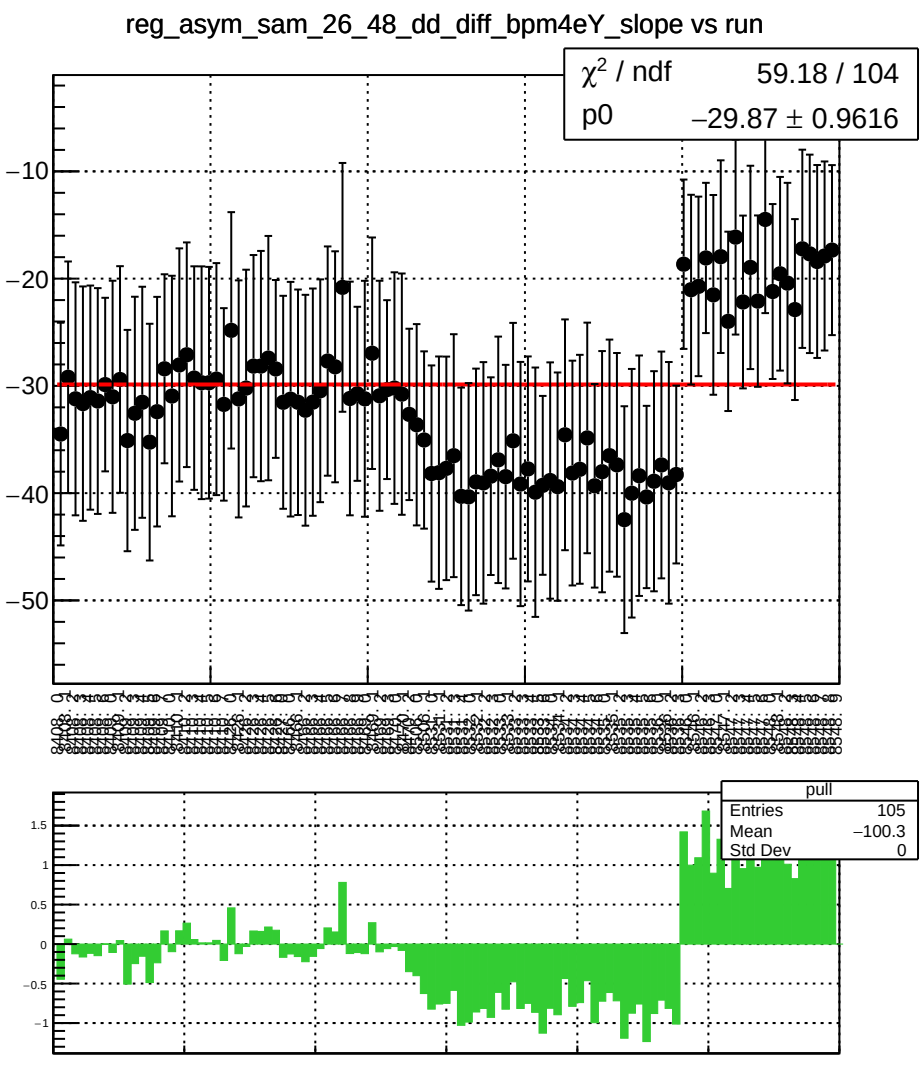

pull1D
Entries 105
Mean −0.0005947
Std Dev 0.08935

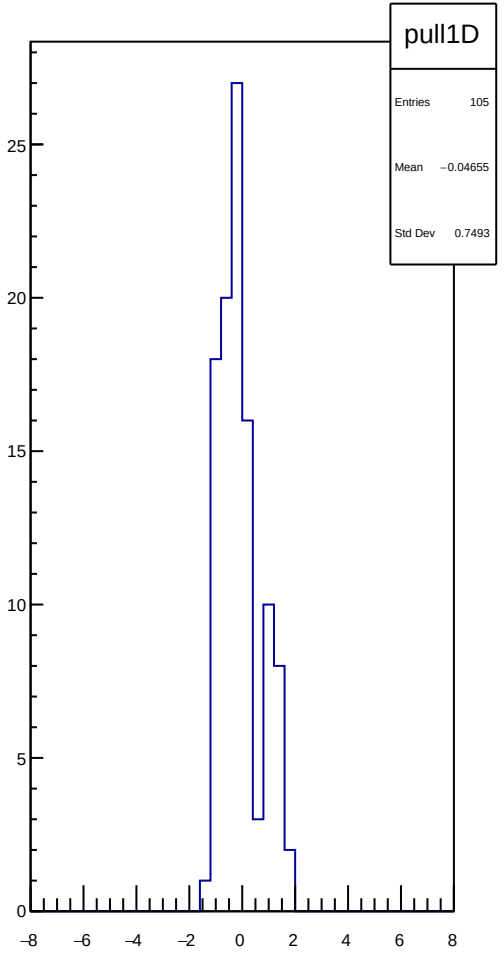

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 12.18 / 104
p0 5.201 ± 0.5094
pull
Entries 105
Mean 30.36
Std Dev 88.3

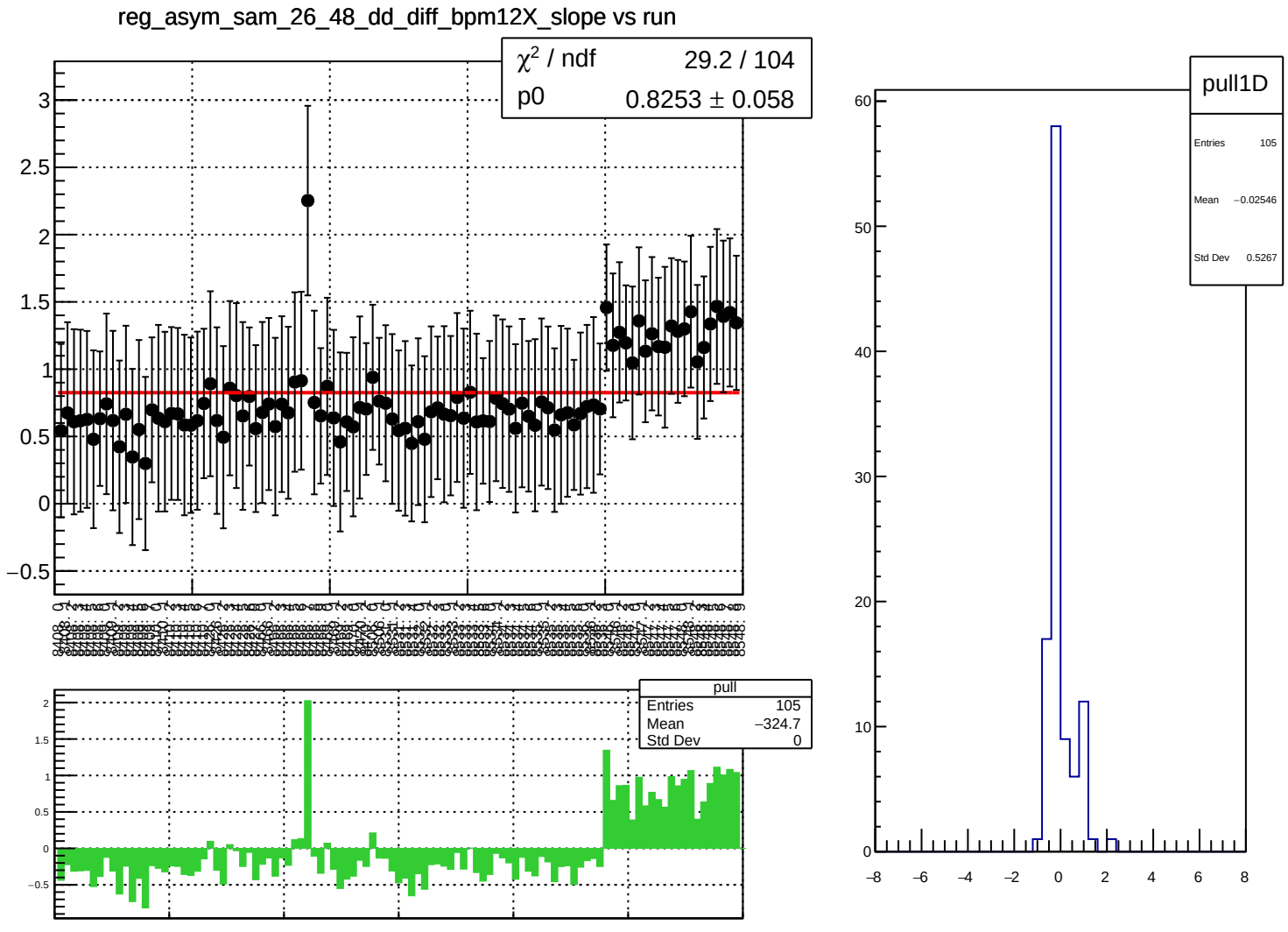

pull1D
Entries 105
Mean 0.01812
Std Dev 0.3402

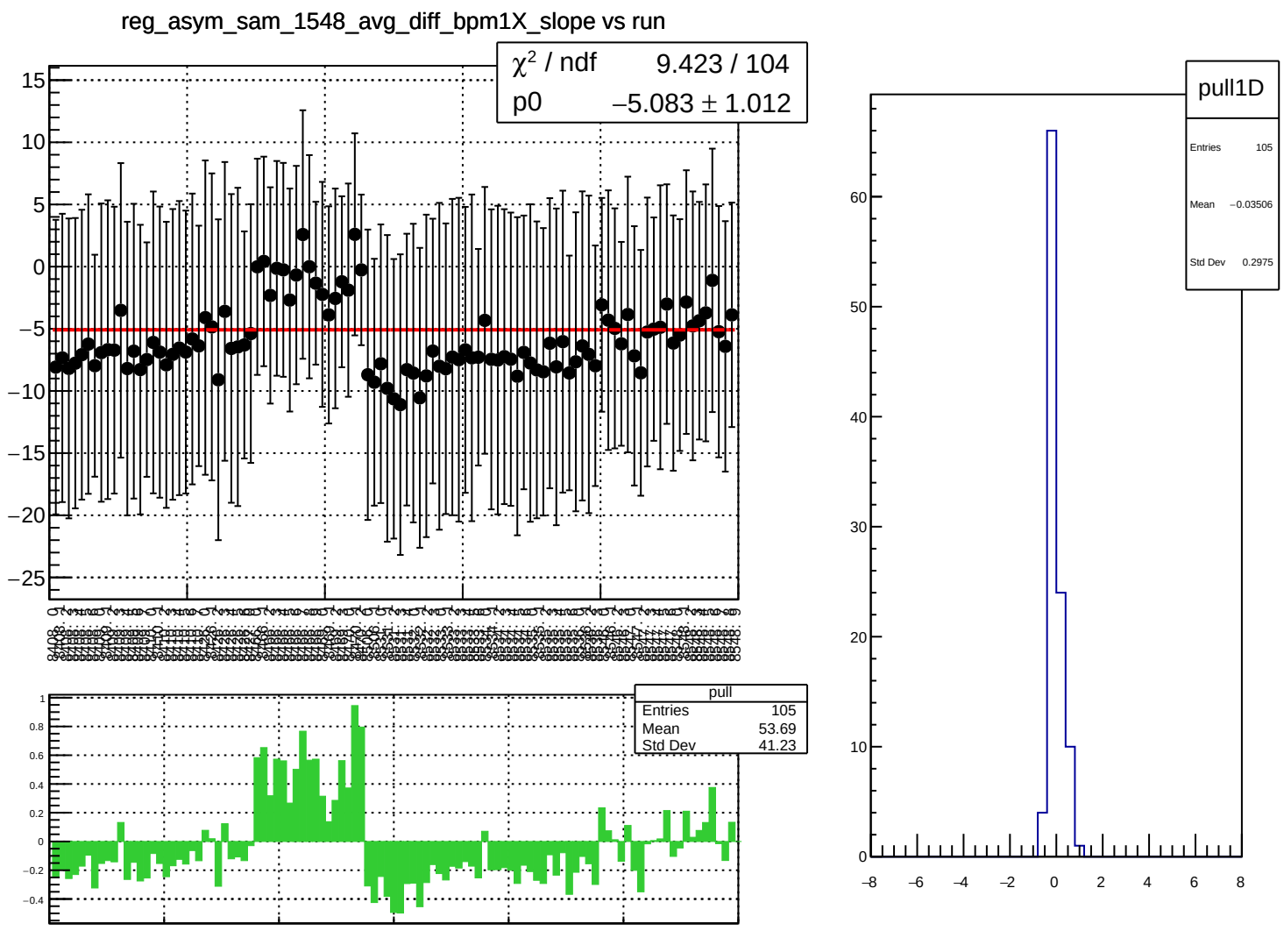

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 39.01 / 104
p0 −38.88 ± 0.9054
pull
Entries 105
Mean 95.99
Std Dev 0
pull1D
Entries 105
Mean 0.02267
Std Dev 0.6091

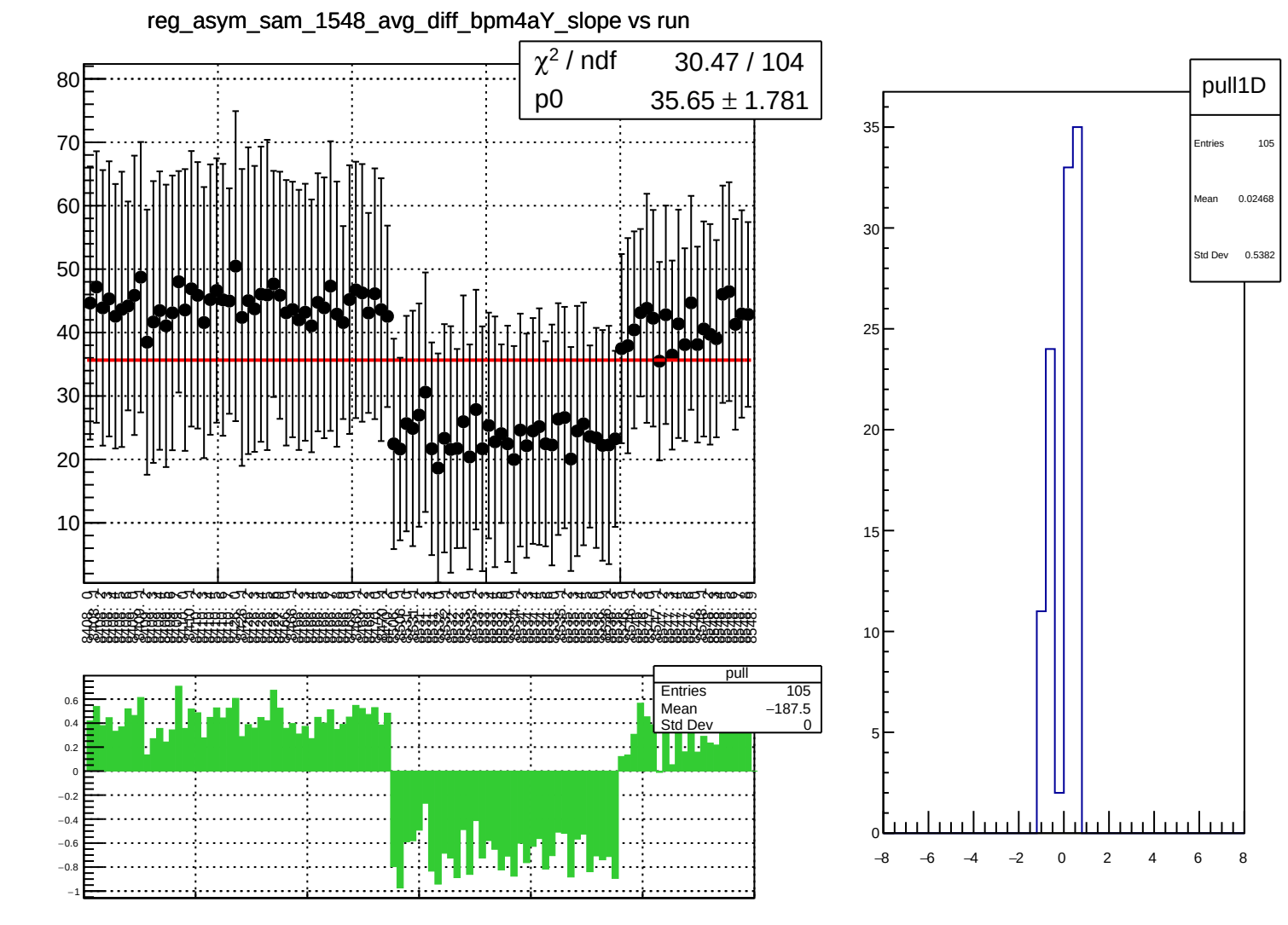

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 17.24 / 104
p0 13.71 ± 0.5629
pull
Entries 105
Mean −1264
Std Dev 0
pull1D
Entries 105
Mean −0.004691
Std Dev 0.4052

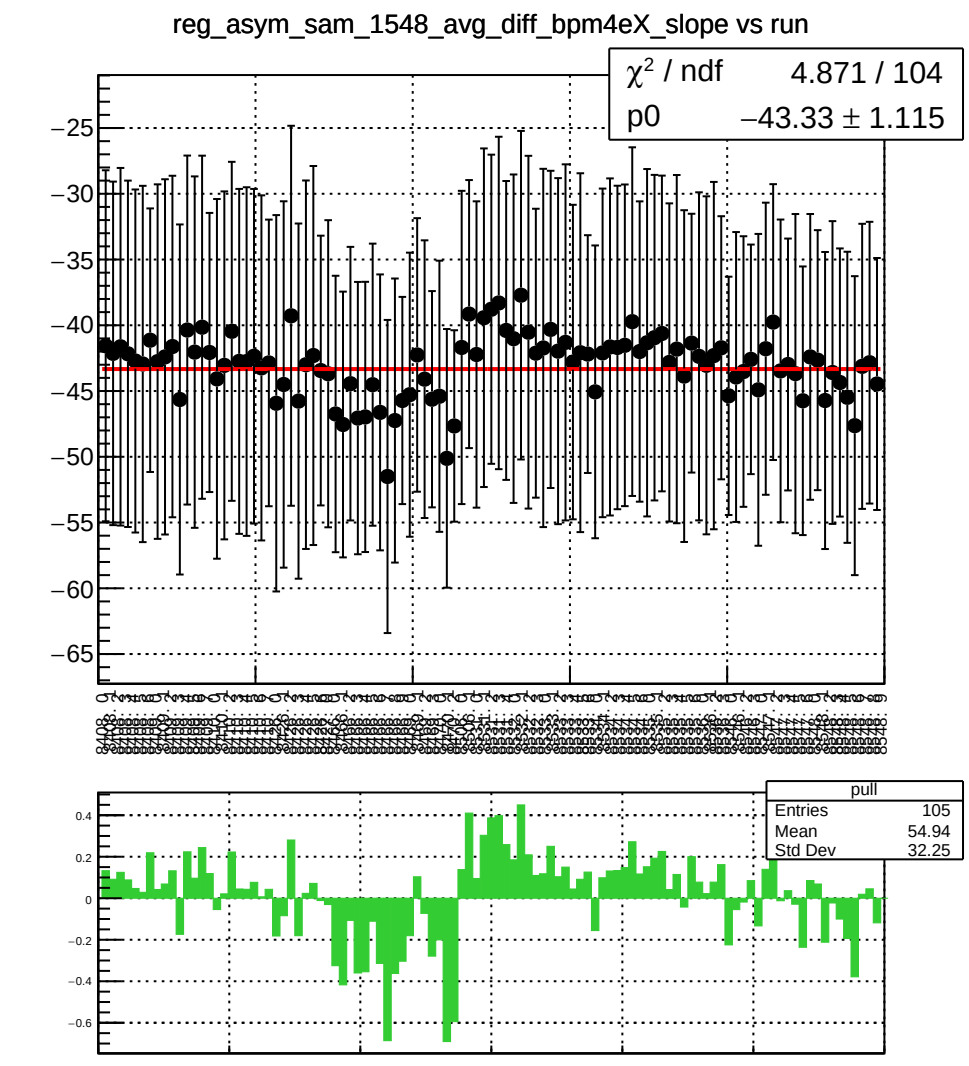

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 59.18 / 104
p0 −29.87 ± 0.9616
−10
−20
−30
−40
−50
pull
Entries 105
Mean −100.3
Std Dev 0
1.5
1
0.5
0
−0.5
−1

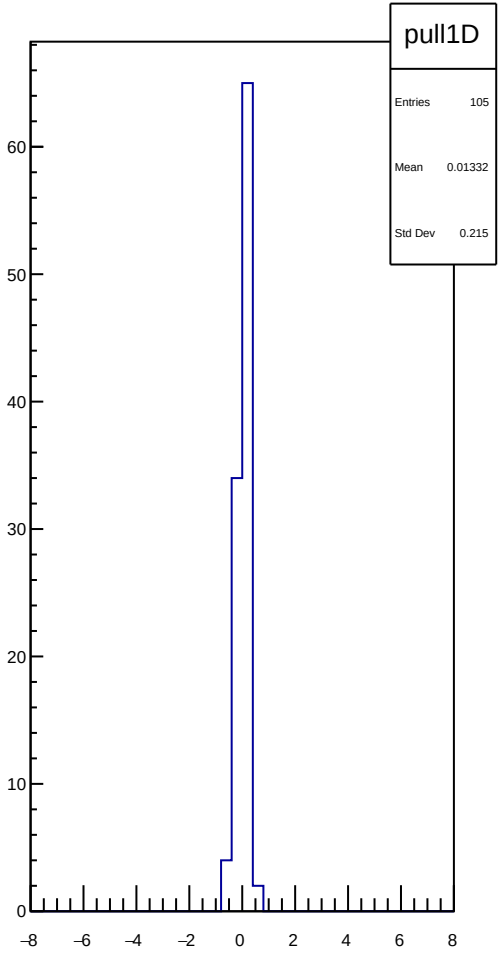

pull1D
Entries 105
Mean −0.04655
Std Dev 0.7493
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

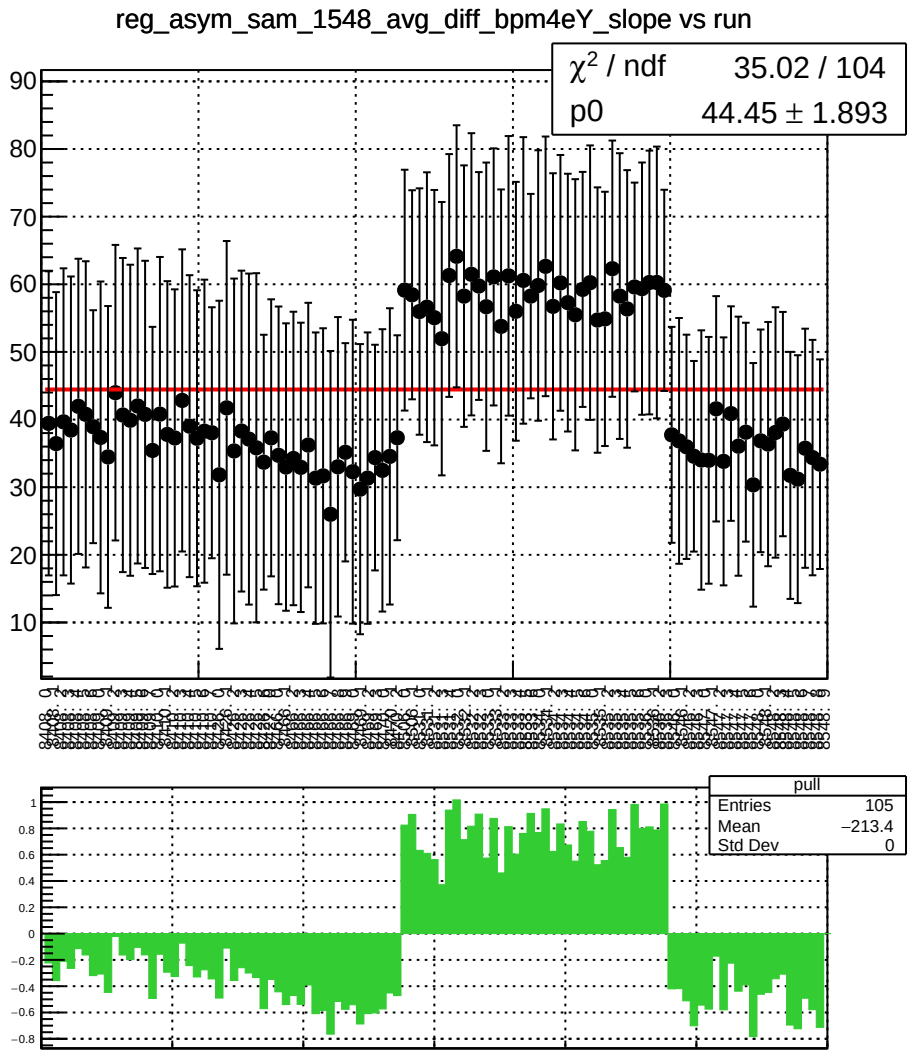

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 29.2 / 104
p0 0.8253 ± 0.058
pull
Entries 105
Mean −324.7
Std Dev 0
pull1D
Entries 105
Mean −0.02546
Std Dev 0.5267

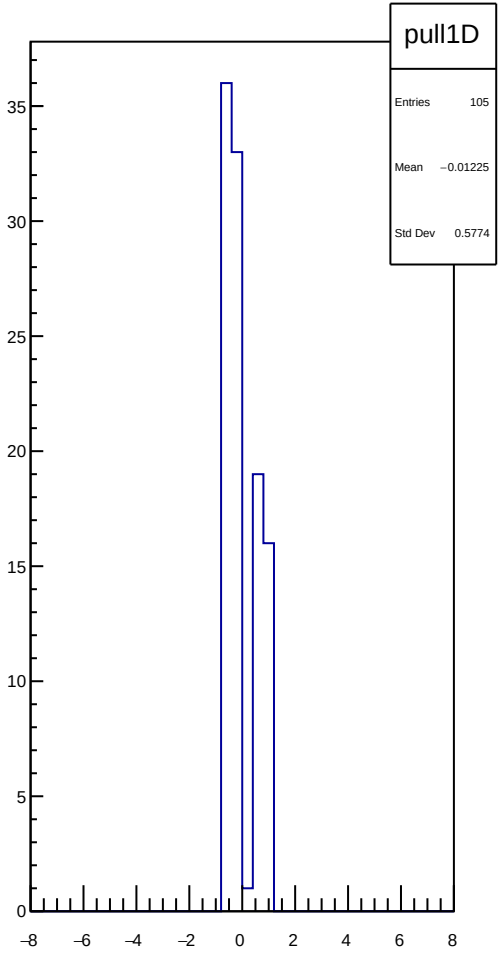

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 9.423 / 104
p0 −5.083 ± 1.012
pull
Entries 105
Mean 53.69
Std Dev 41.23
pull1D
Entries 105
Mean −0.03506
Std Dev 0.2975

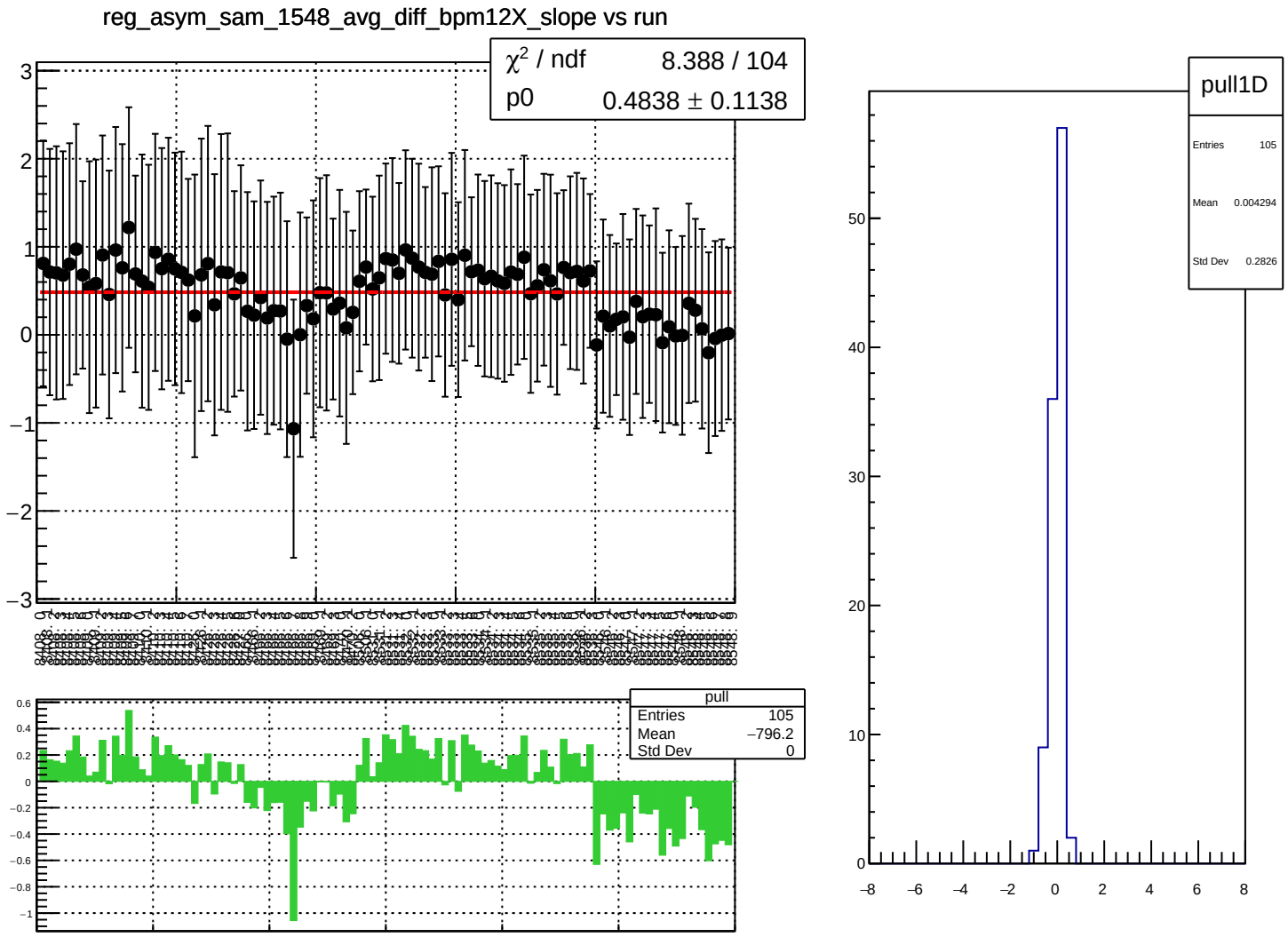

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 30.47 / 104
p0 35.65 ± 1.781
80
70
60
50
40
30
20
10
pull
Entries 105
Mean −187.5
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 105
Mean 0.02468
Std Dev 0.5382
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

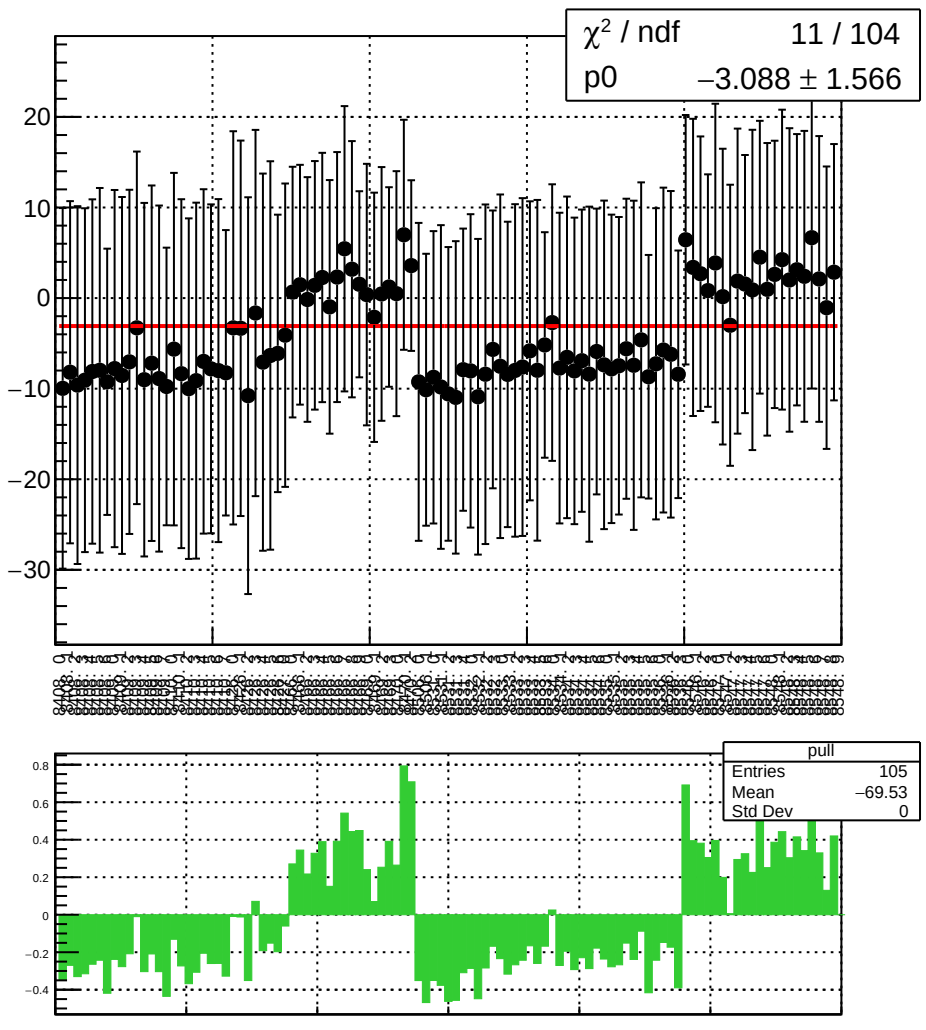

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 4.871 / 104
p0 −43.33 ± 1.115
pull
Entries 105
Mean 54.94
Std Dev 32.25

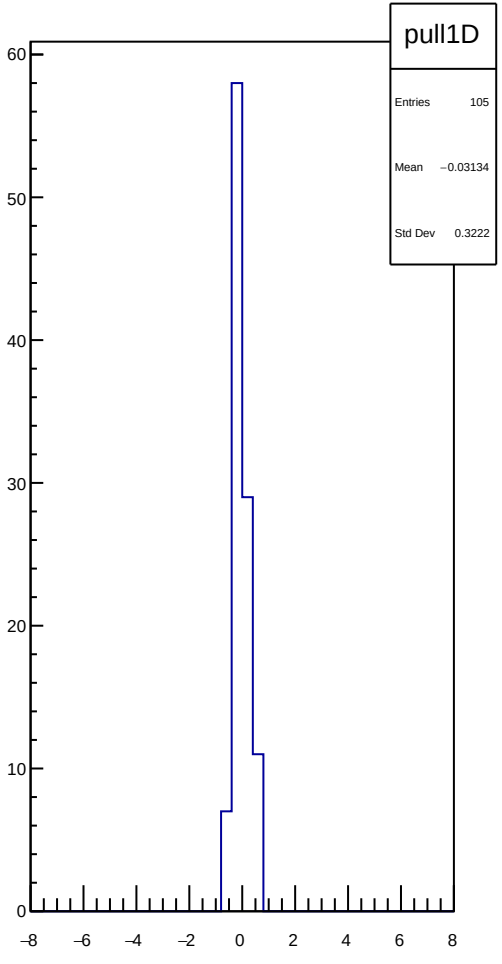

pull1D
Entries 105
Mean 0.01332
Std Dev 0.215

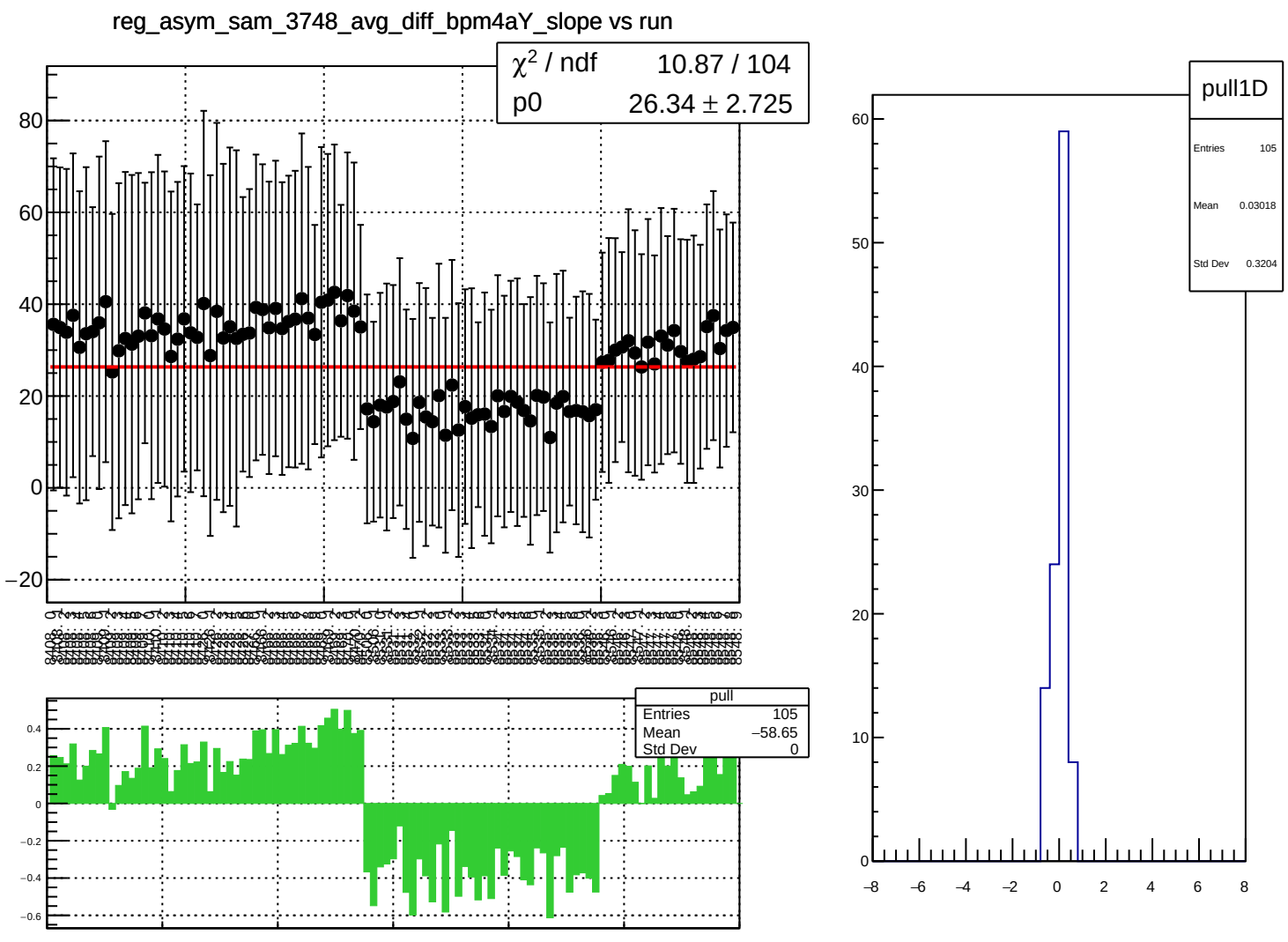

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 35.02 / 104
p0 44.45 ± 1.893
pull
Entries 105
Mean −213.4
Std Dev 0

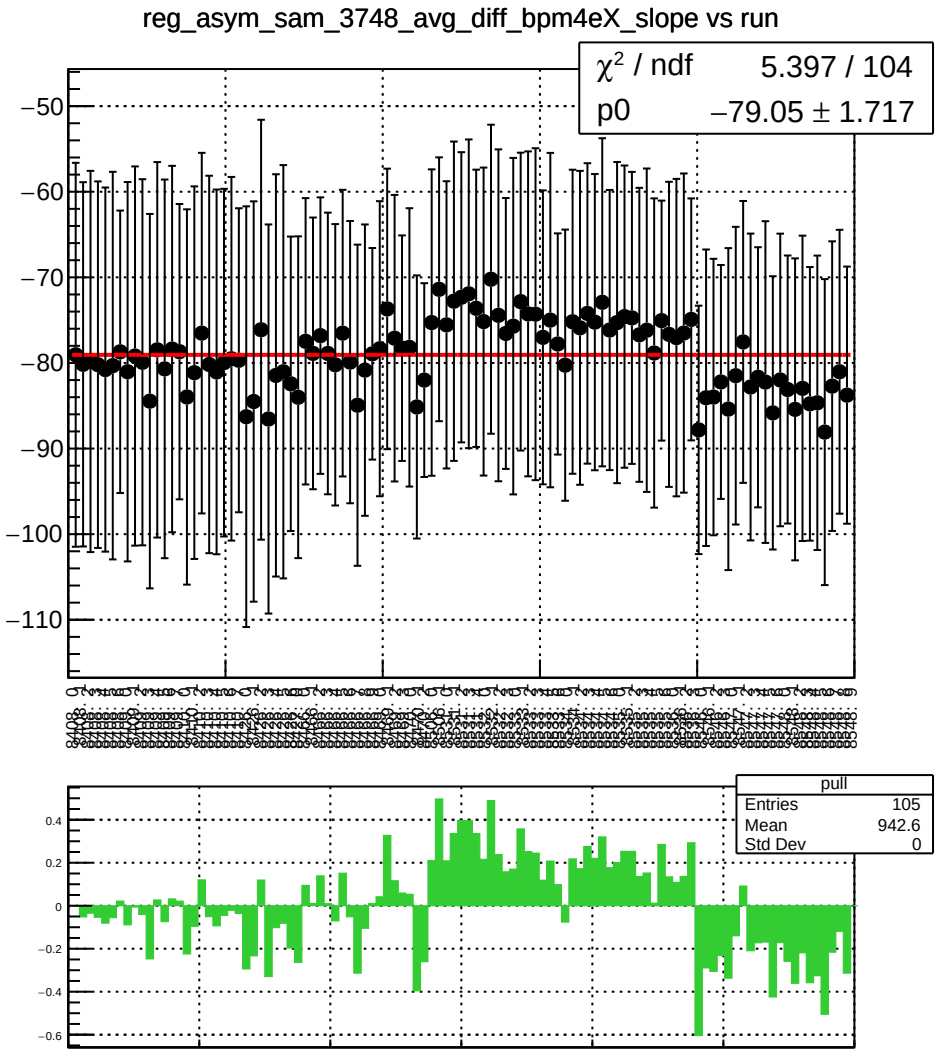

pull1D
Entries 105
Mean −0.01225
Std Dev 0.5774

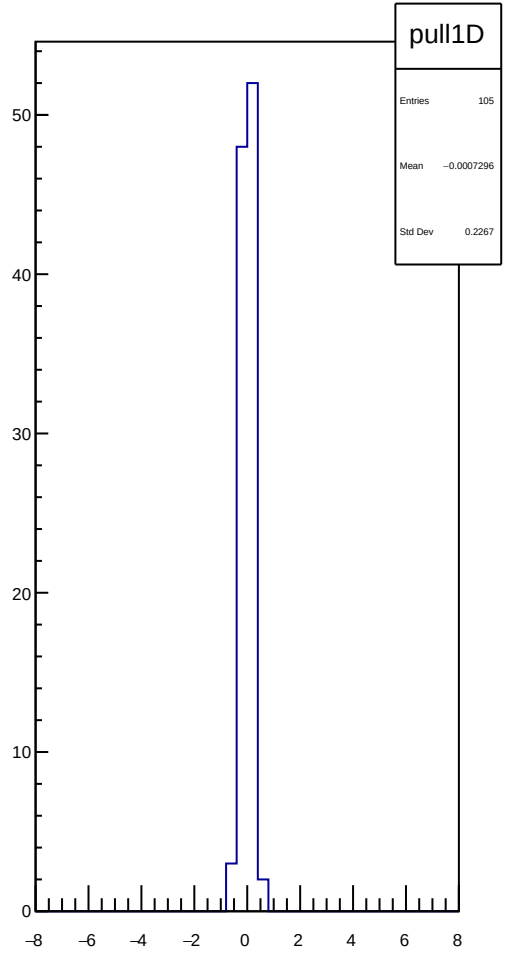

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 8.388 / 104
p0 0.4838 ± 0.1138
pull
Entries 105
Mean −796.2
Std Dev 0
pull1D
Entries 105
Mean 0.004294
Std Dev 0.2826

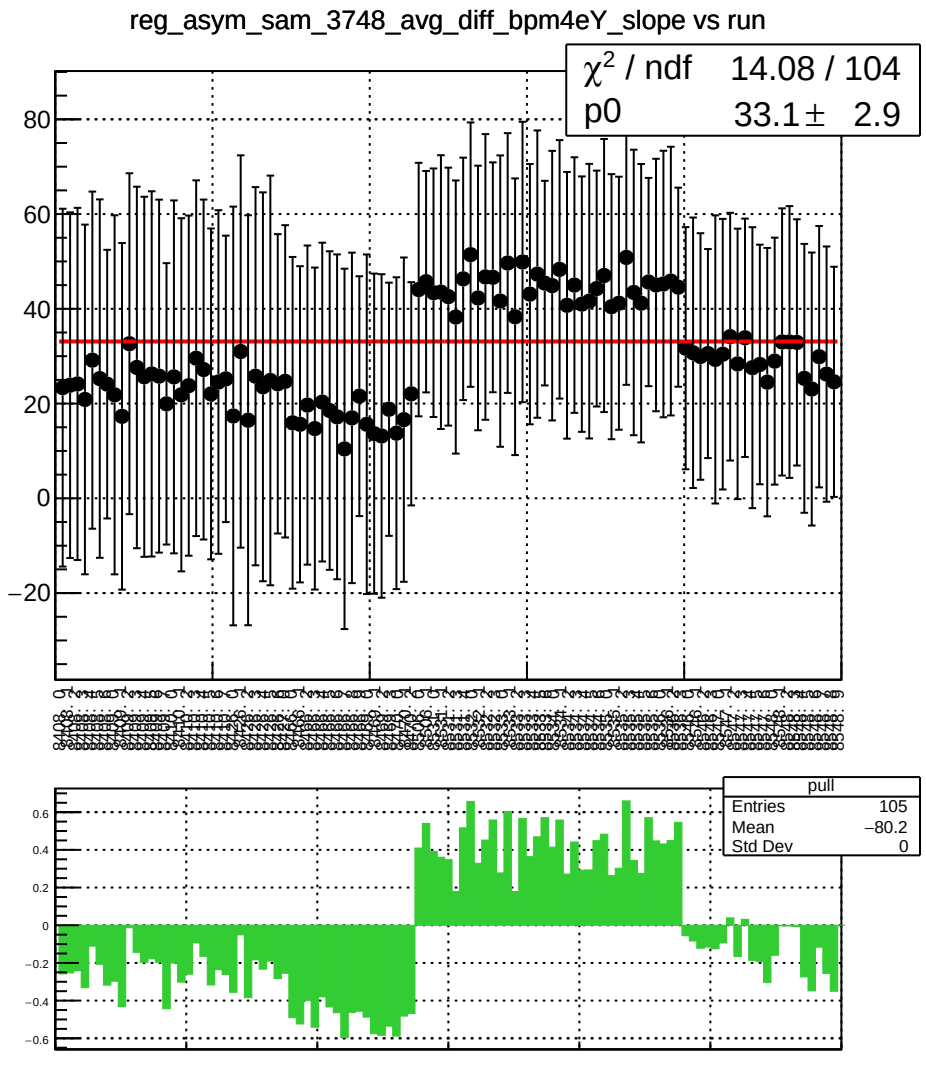

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 11 / 104
p0 −3.088 ± 1.566
pull
Entries 105
Mean −69.53
Std Dev 0

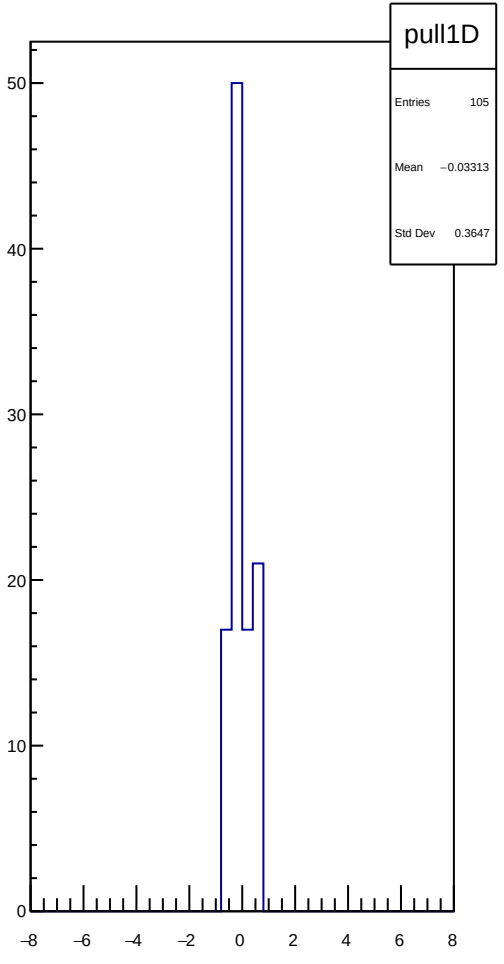

pull1D
Entries 105
Mean −0.03134
Std Dev 0.3222

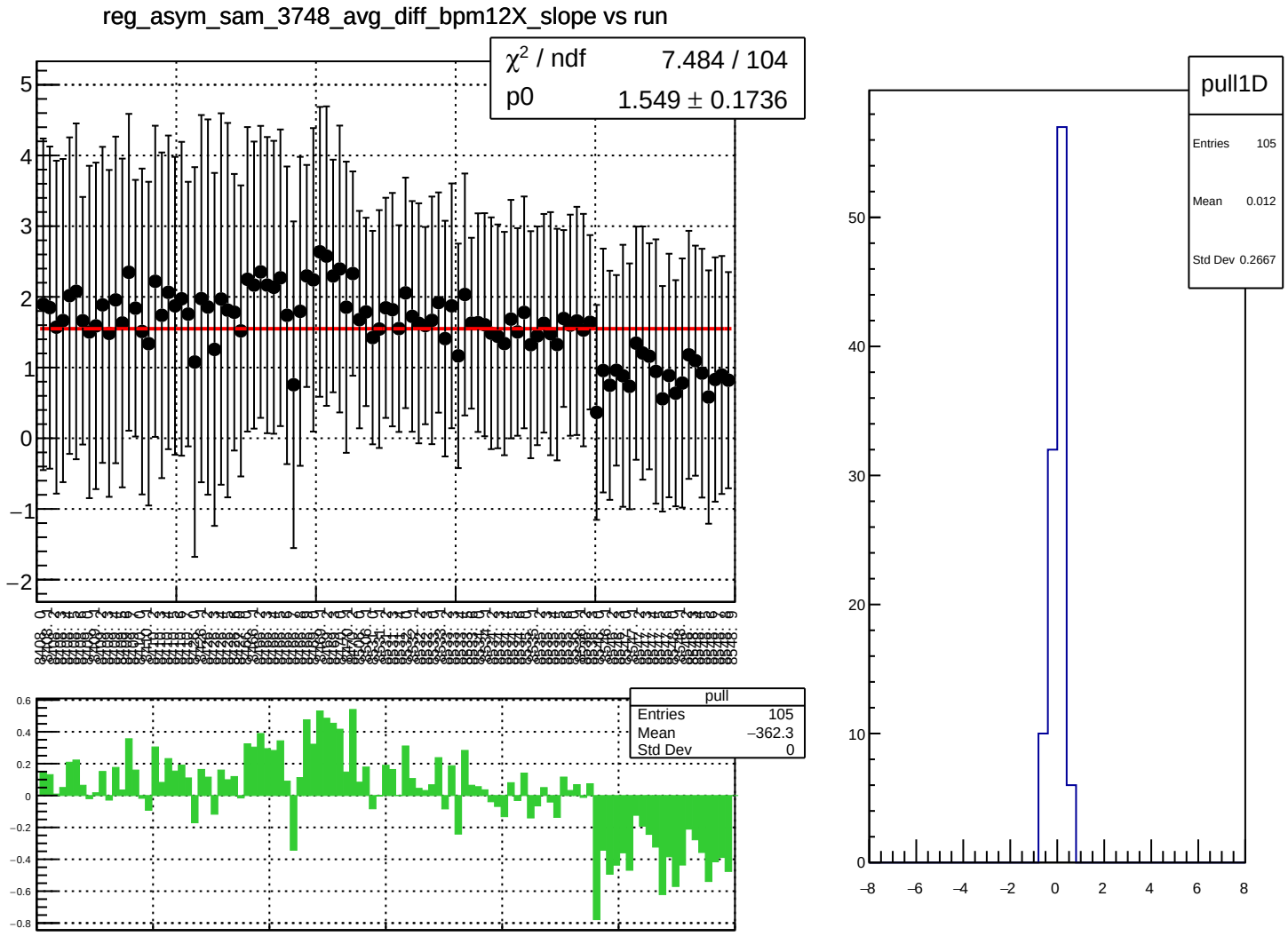

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 10.87 / 104
p0 26.34 ± 2.725
80
60
40
20
0
−20
pull
Entries 105
Mean −58.65
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 105
Mean 0.03018
Std Dev 0.3204
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

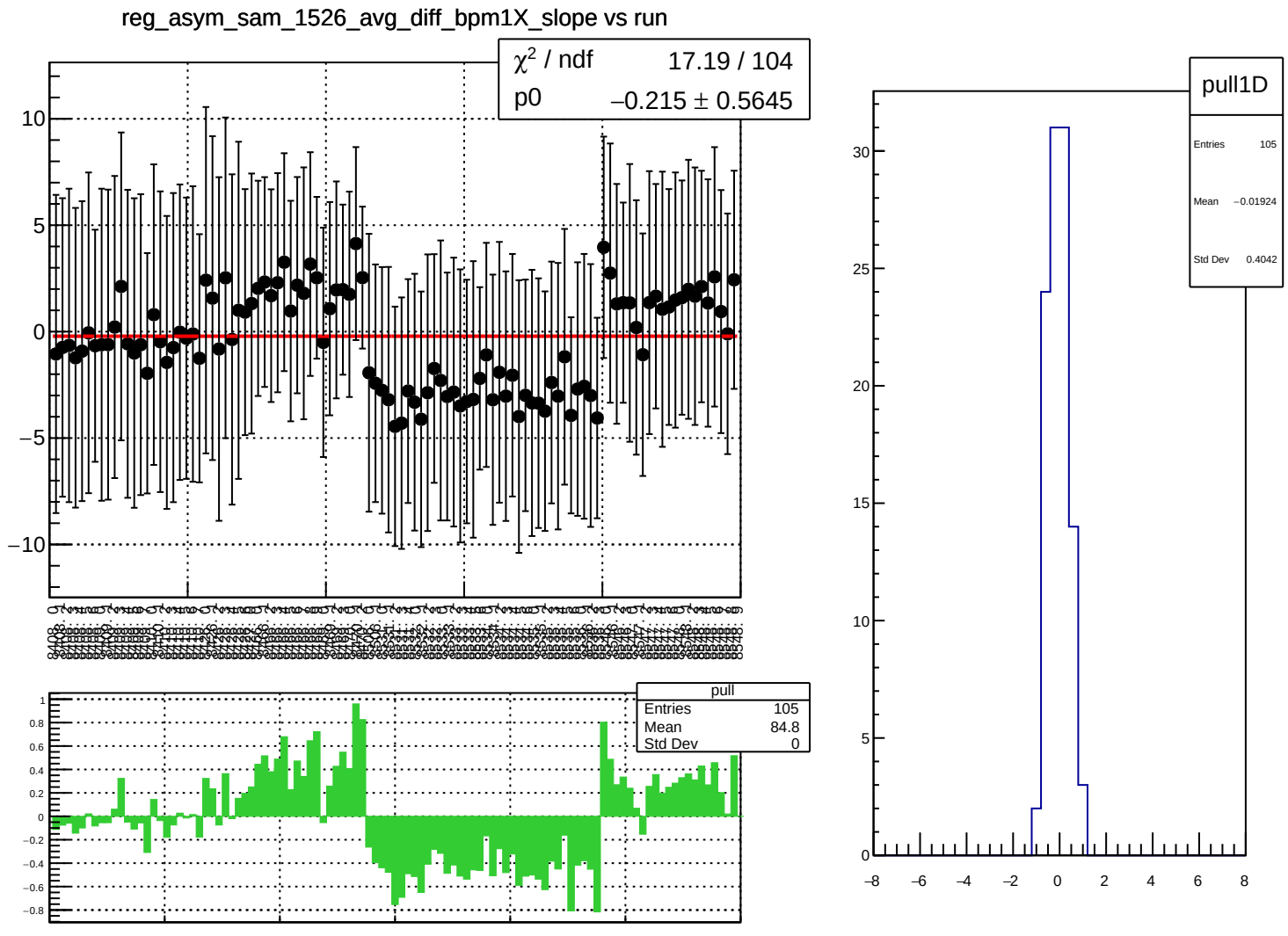

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 5.397 / 104
p0 −79.05 ± 1.717
−50
−60
−70
−80
−90
−100
−110
pull
Entries 105
Mean 942.6
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6

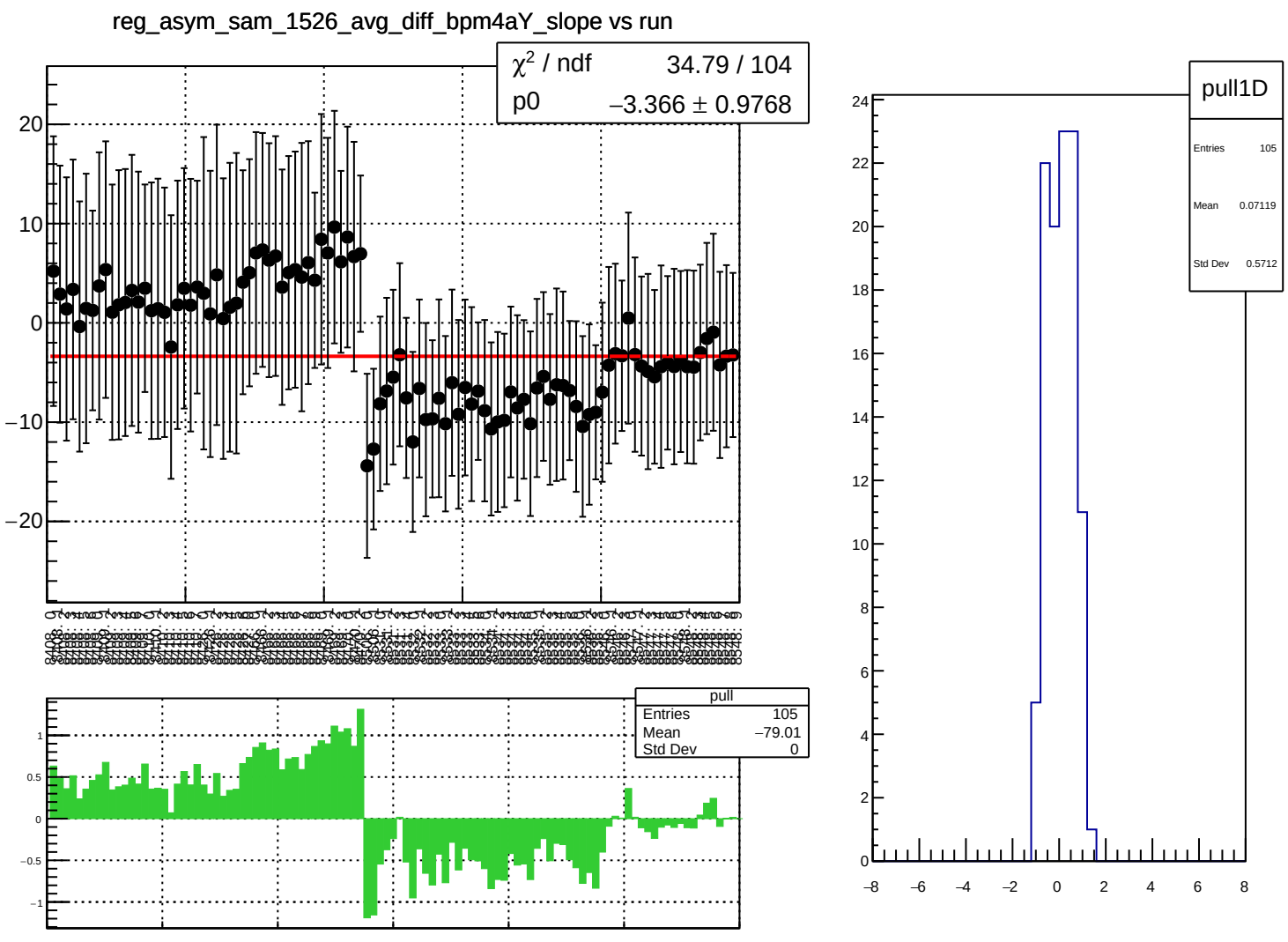

pull1D
Entries 105
Mean −0.0007296
Std Dev 0.2267
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

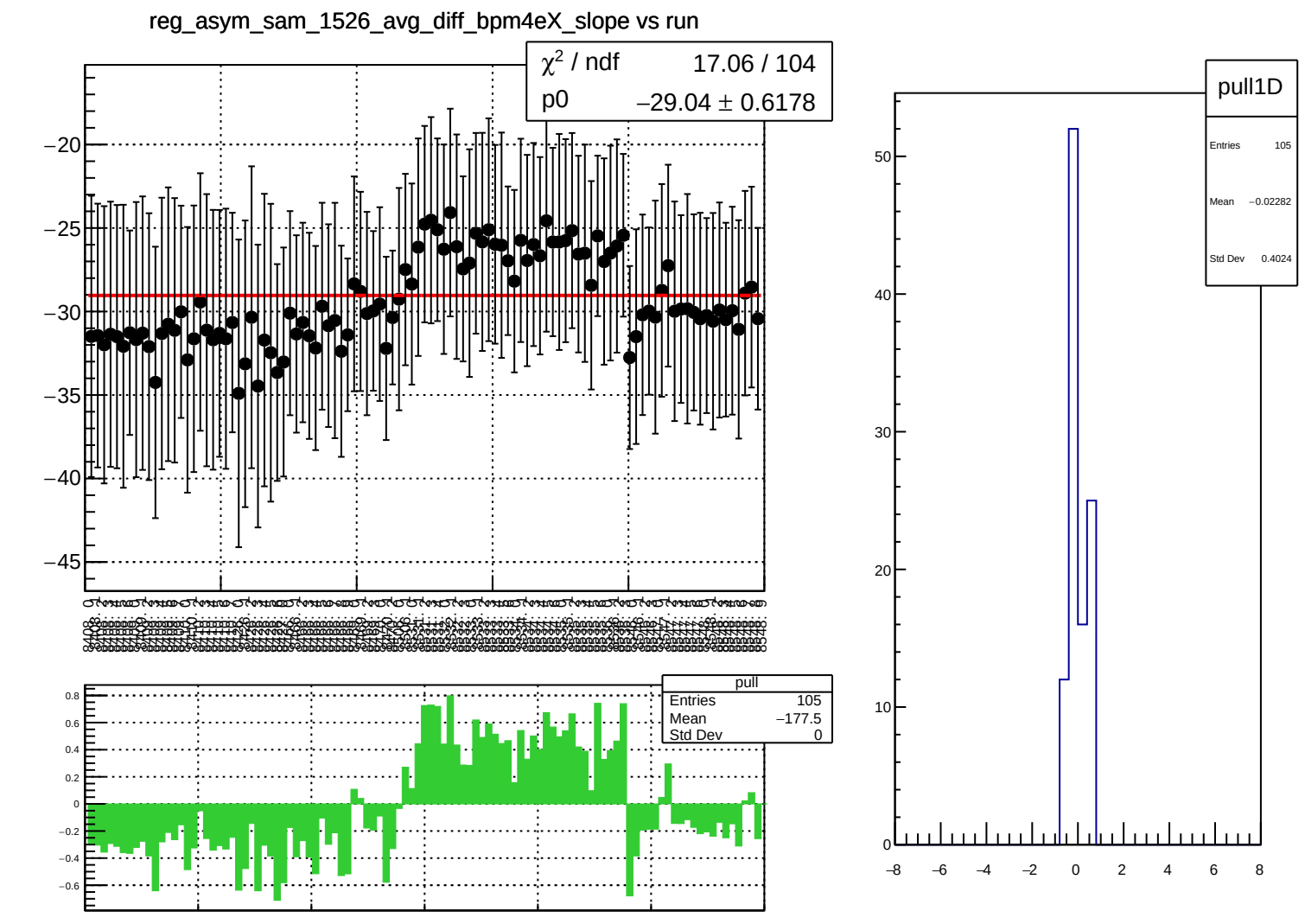

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 14.08 / 104
p0 33.1 ± 2.9
80
60
40
20
0
−20
pull
Entries 105
Mean −80.2
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

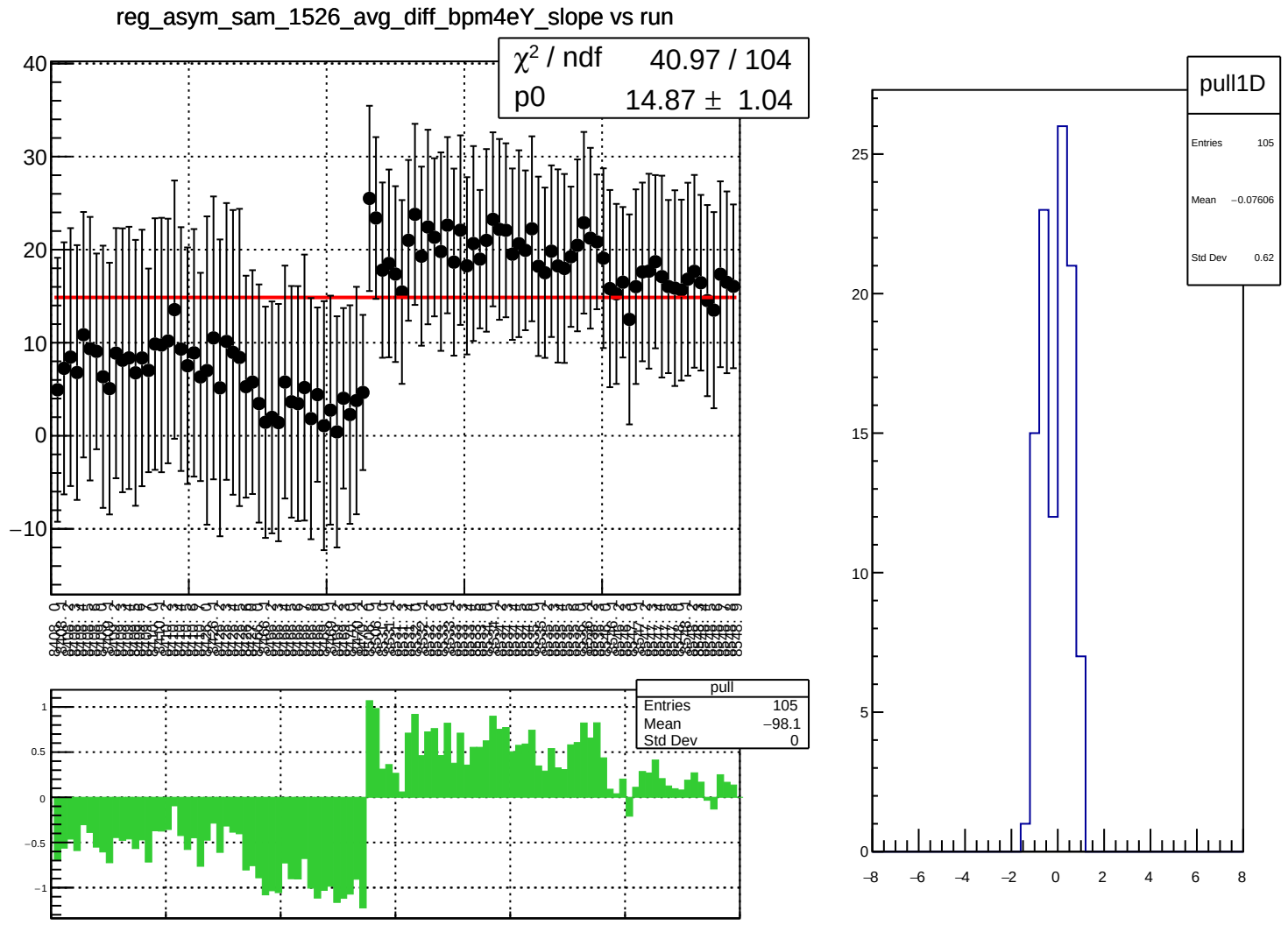

pull1D
Entries 105
Mean −0.03313
Std Dev 0.3647
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

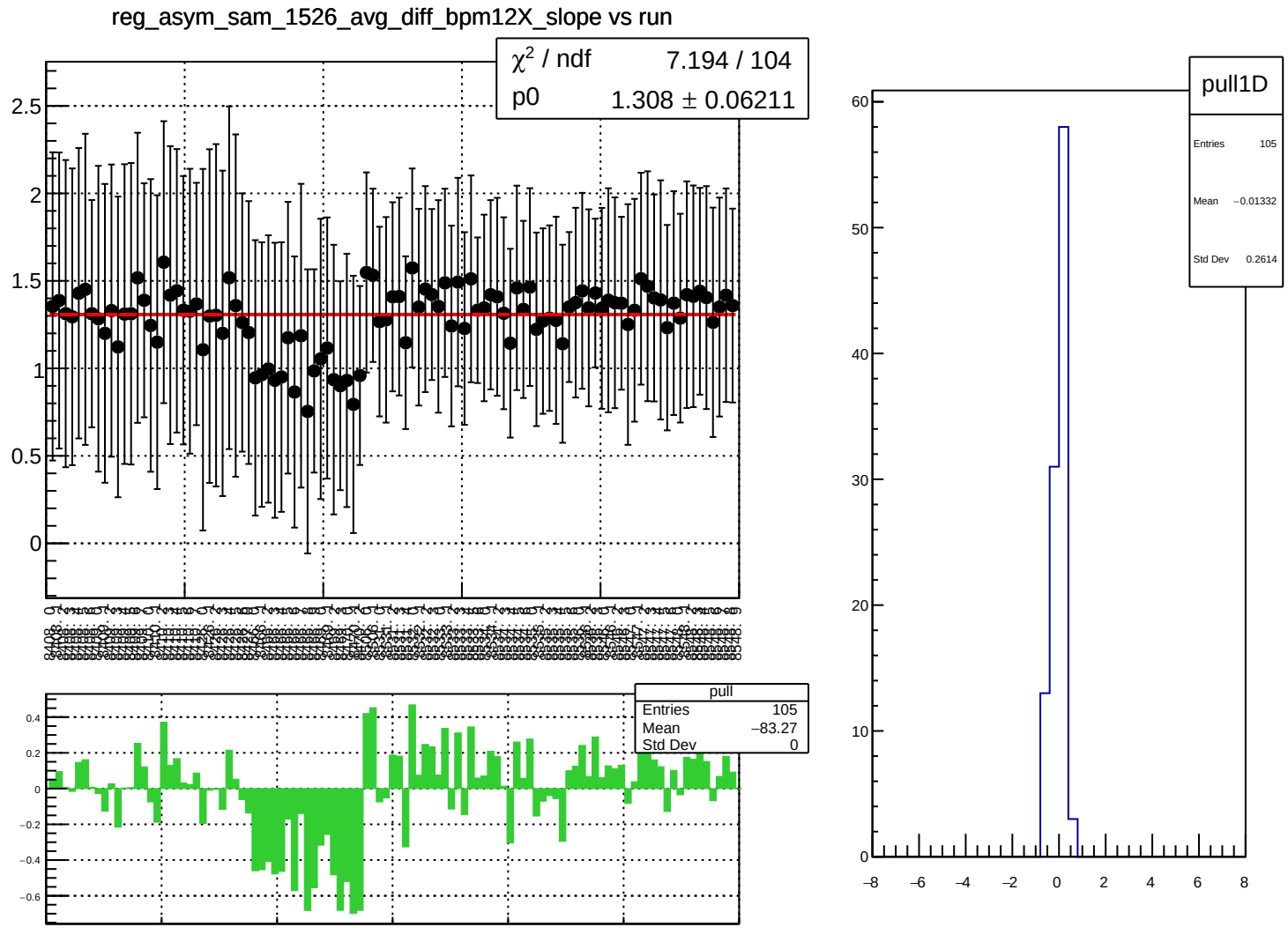

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 7.484 / 104
p0 1.549 ± 0.1736
pull
Entries 105
Mean −362.3
Std Dev 0
pull1D
Entries 105
Mean 0.012
Std Dev 0.2667

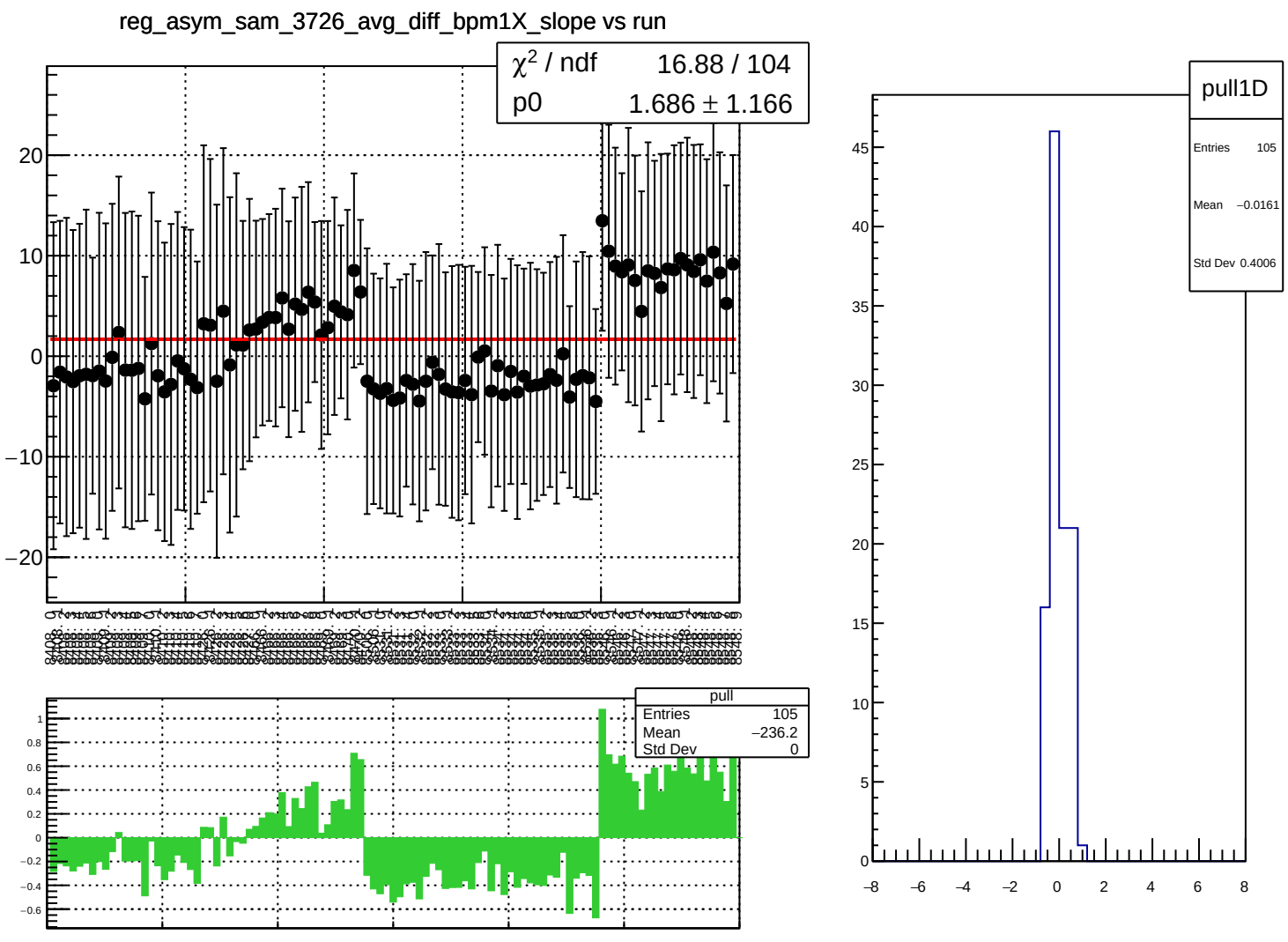

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 17.19 / 104
p0 −0.215 ± 0.5645
10
5
0
−5
−10
pull
Entries 105
Mean 84.8
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 105
Mean −0.01924
Std Dev 0.4042
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

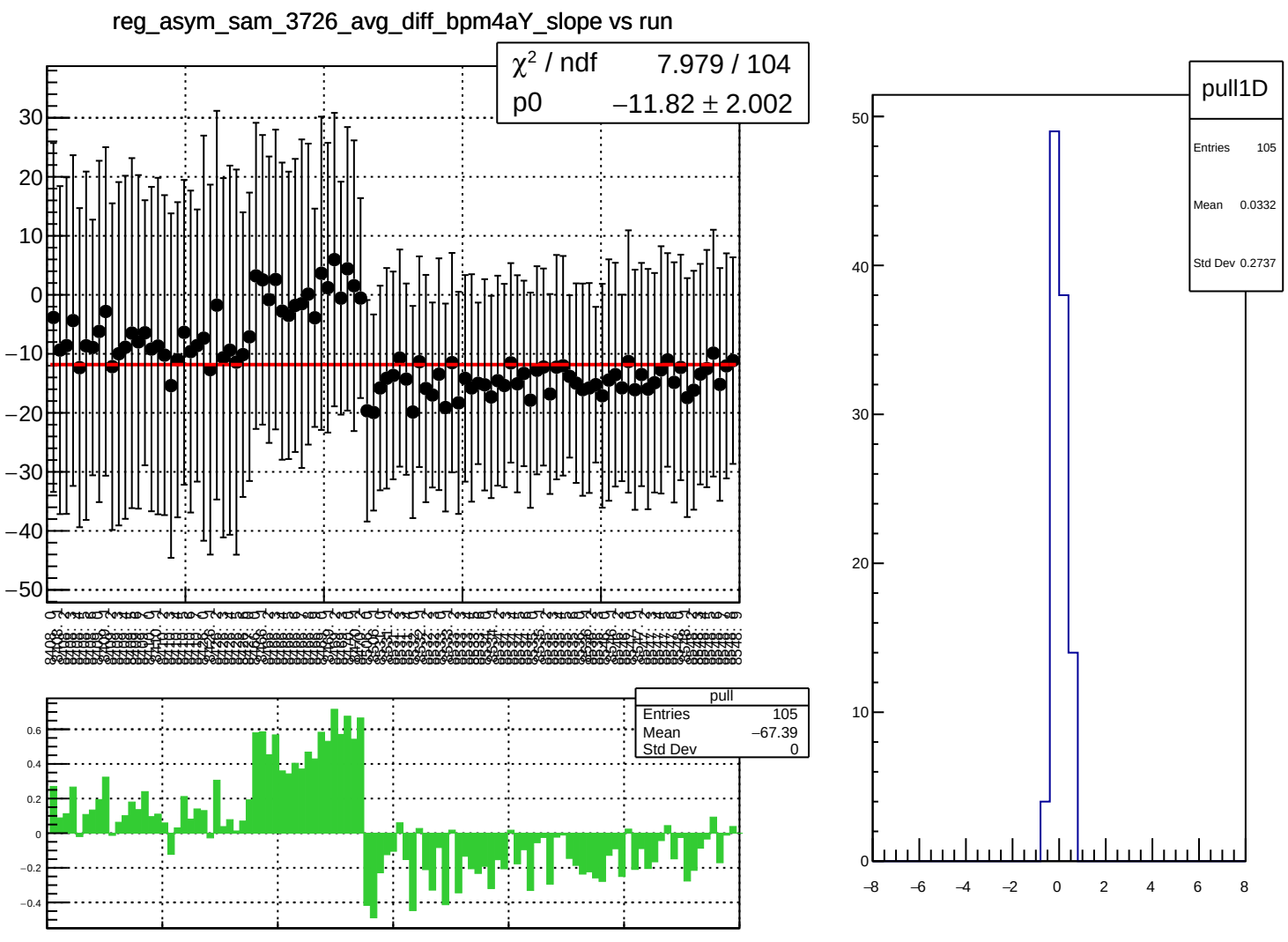

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 34.79 / 104
p0 −3.366 ± 0.9768
20
10
0
−10
−20
pull
Entries 105
Mean −79.01
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 105
Mean 0.07119
Std Dev 0.5712
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

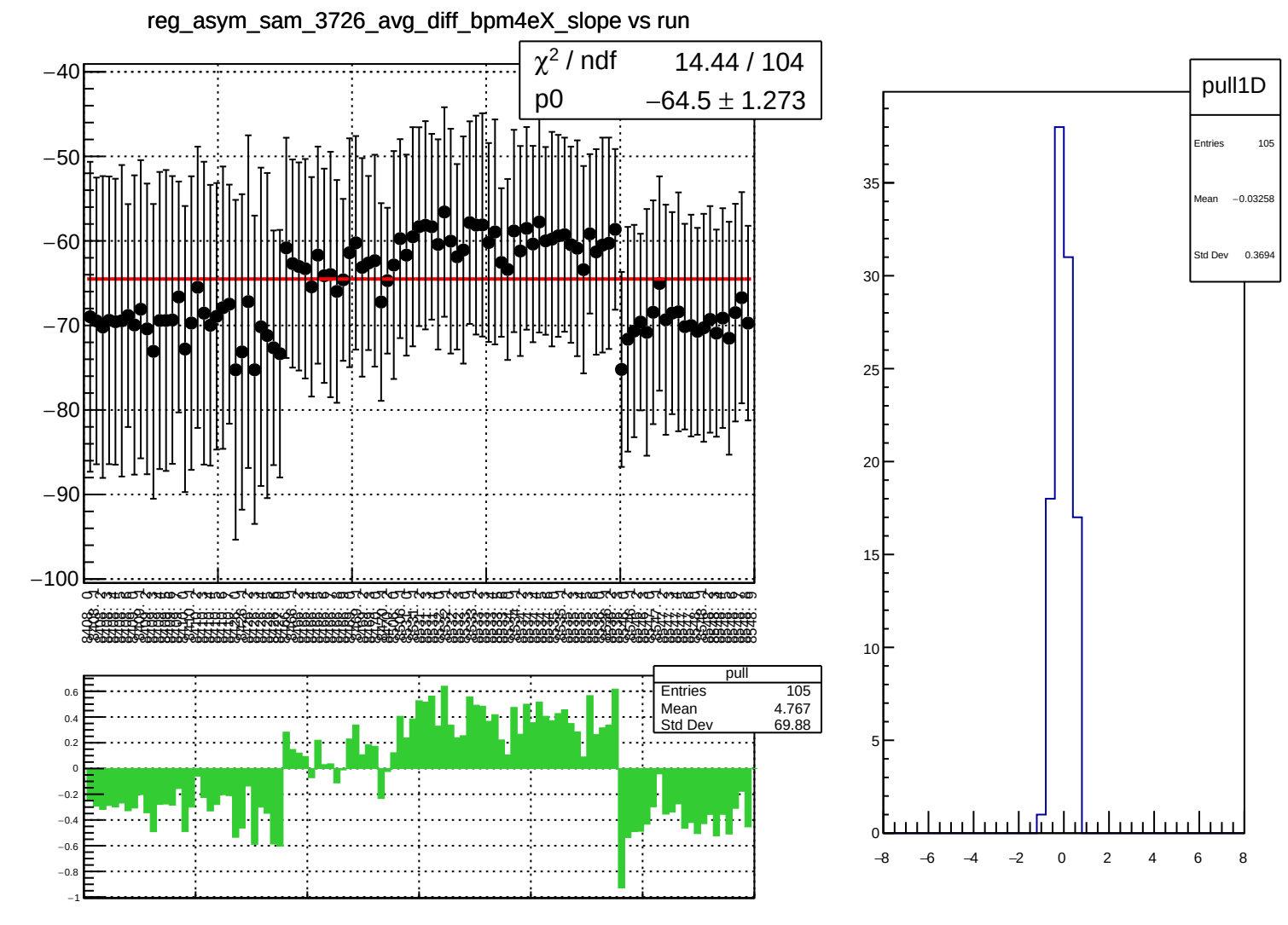

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 17.06 / 104
p0 −29.04 ± 0.6178
−20
−25
−30
−35
−40
−45
pull
Entries 105
Mean −177.5
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 105
Mean −0.02282
Std Dev 0.4024
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

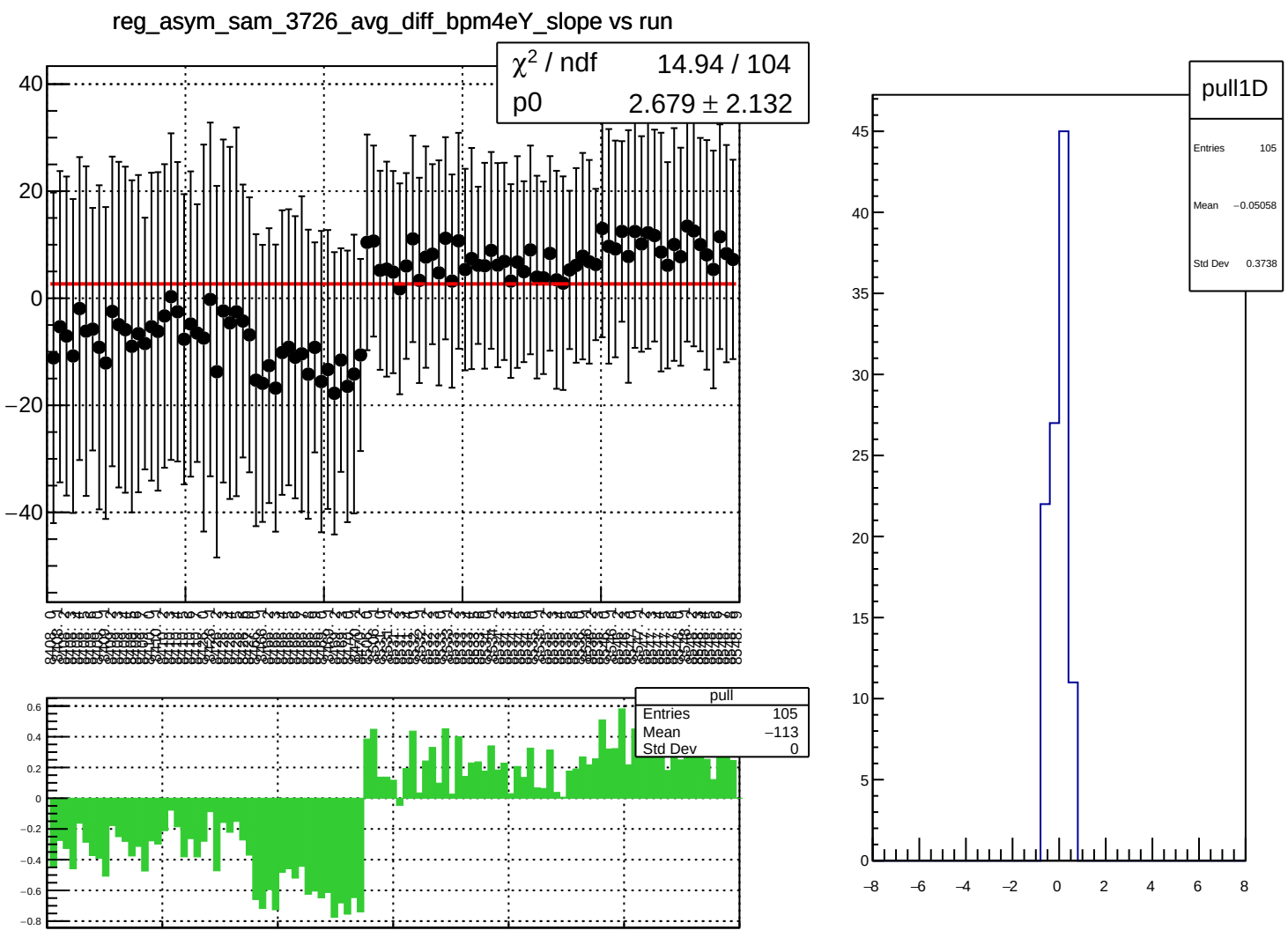

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 40.97 / 104
p0 14.87 ± 1.04
pull
Entries 105
Mean −98.1
Std Dev 0
pull1D
Entries 105
Mean −0.07606
Std Dev 0.62

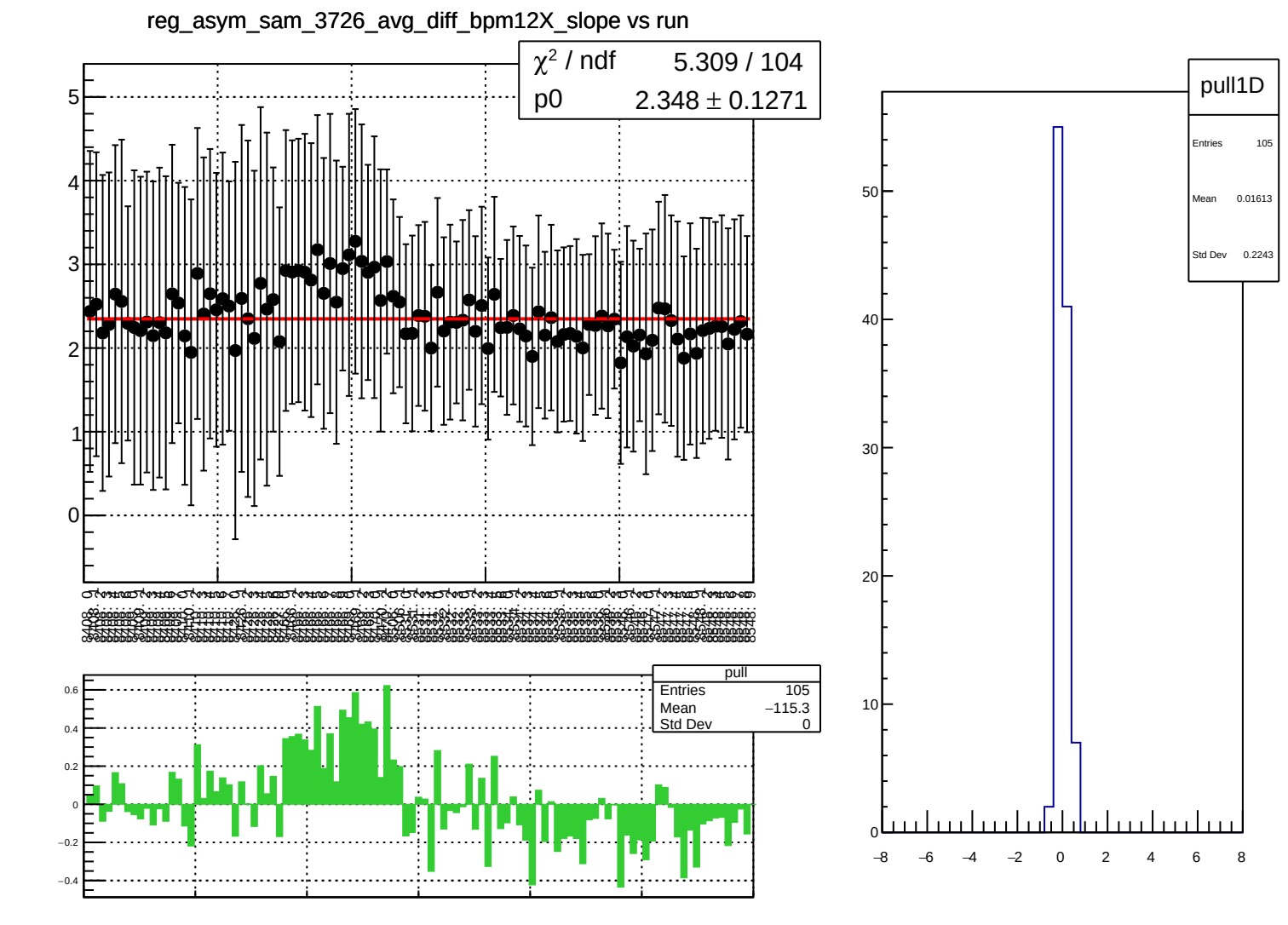

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 7.194 / 104
p0 1.308 ± 0.06211
pull
Entries 105
Mean −83.27
Std Dev 0
pull1D
Entries 105
Mean −0.01332
Std Dev 0.2614

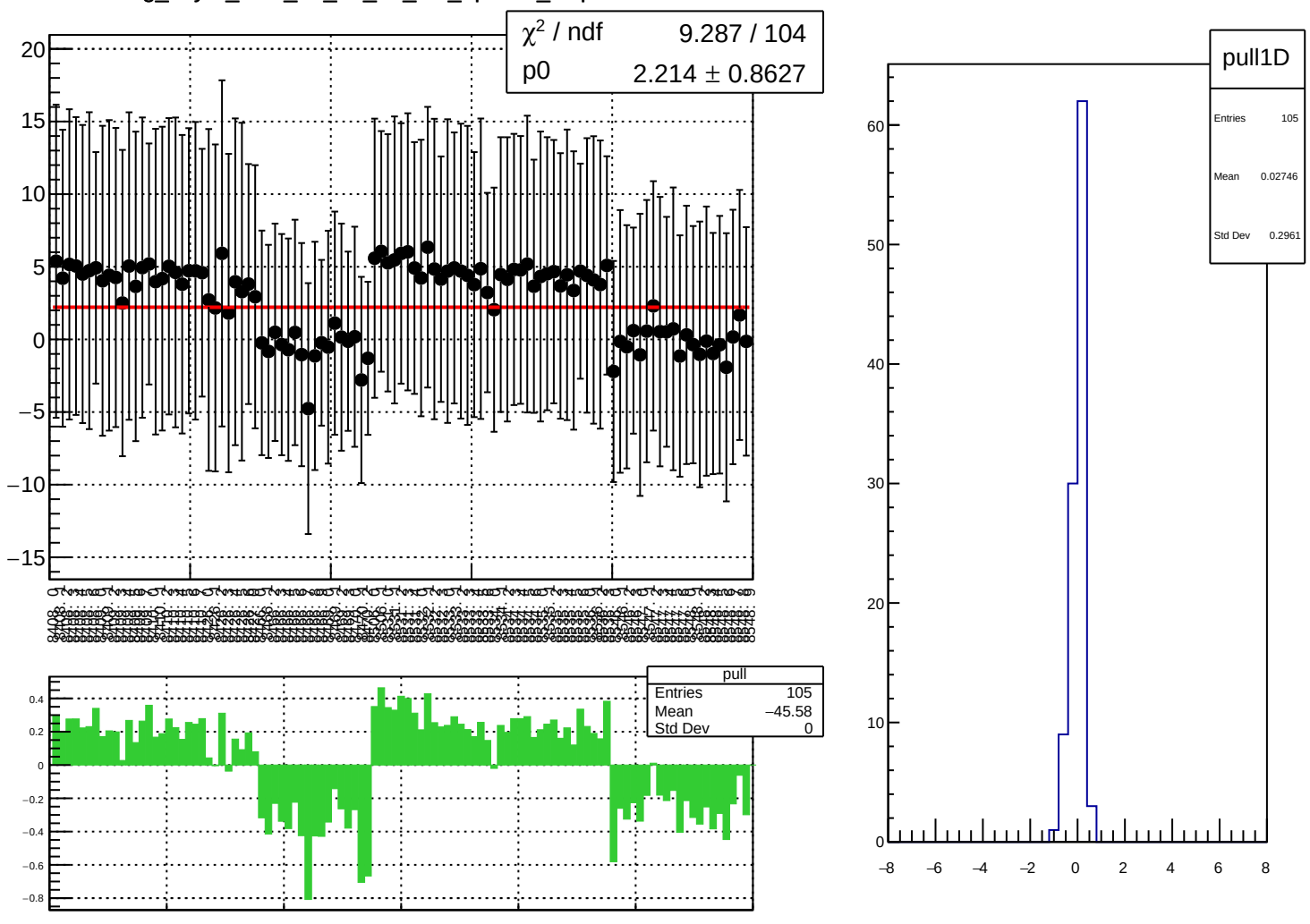

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 16.88 / 104
p0 1.686 ± 1.166
20
10
0
−10
−20
pull
Entries 105
Mean −236.2
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 105
Mean −0.0161
Std Dev 0.4006
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

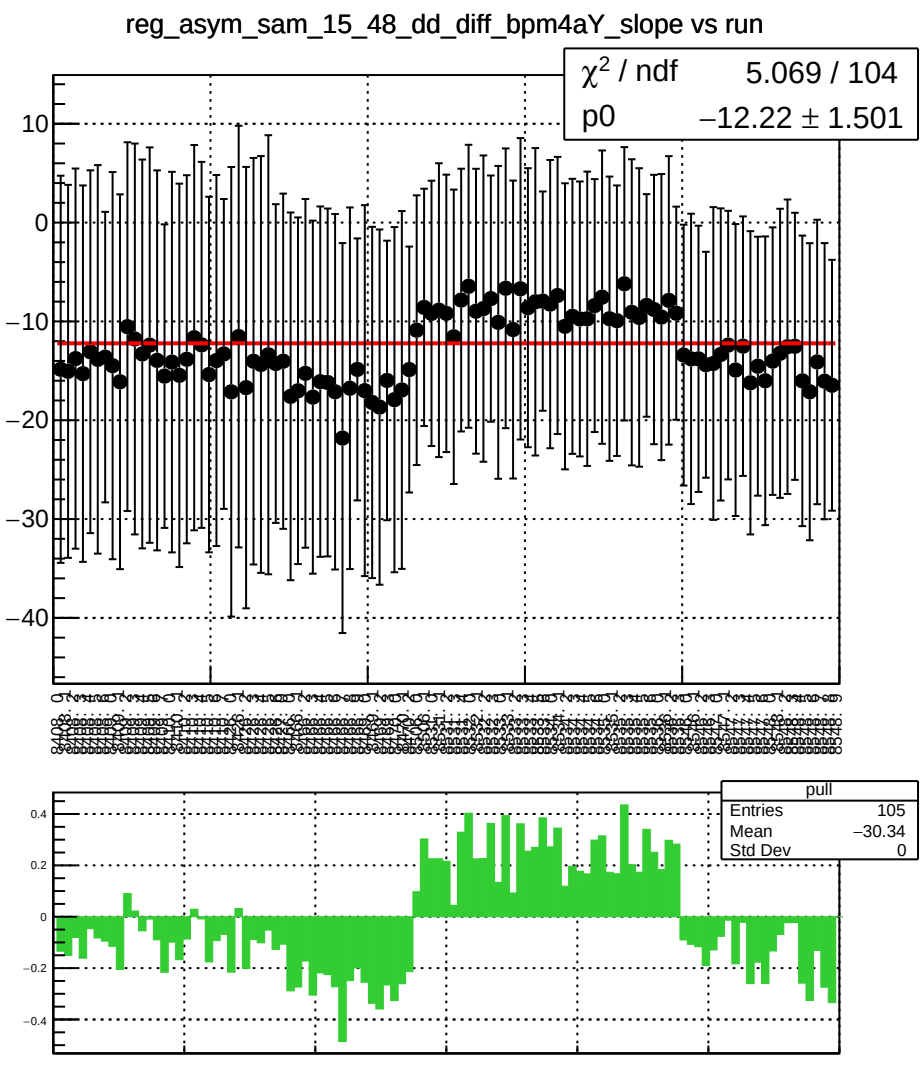

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 7.979 / 104
p0 −11.82 ± 2.002
pull
Entries 105
Mean −67.39
Std Dev 0
pull1D
Entries 105
Mean 0.0332
Std Dev 0.2737

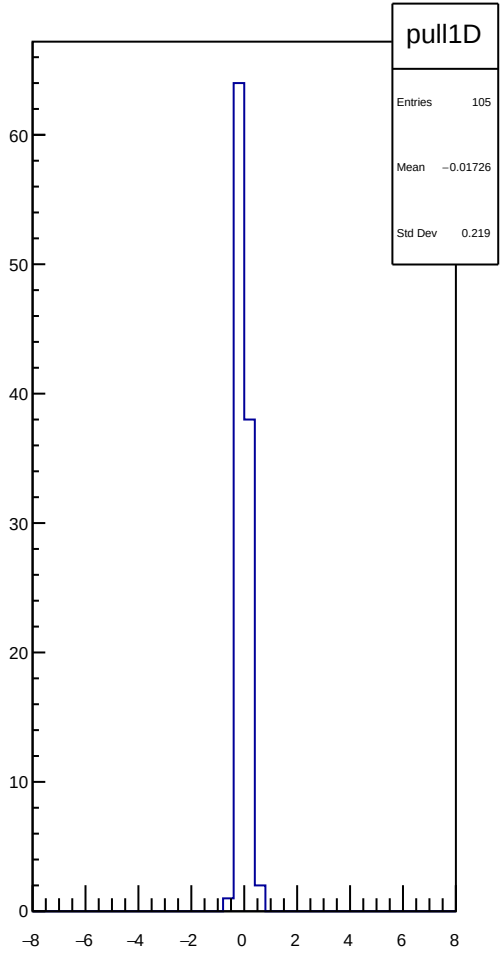

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 14.44 / 104
p0 −64.5 ± 1.273
pull
Entries 105
Mean 4.767
Std Dev 69.88
pull1D
Entries 105
Mean −0.03258
Std Dev 0.3694

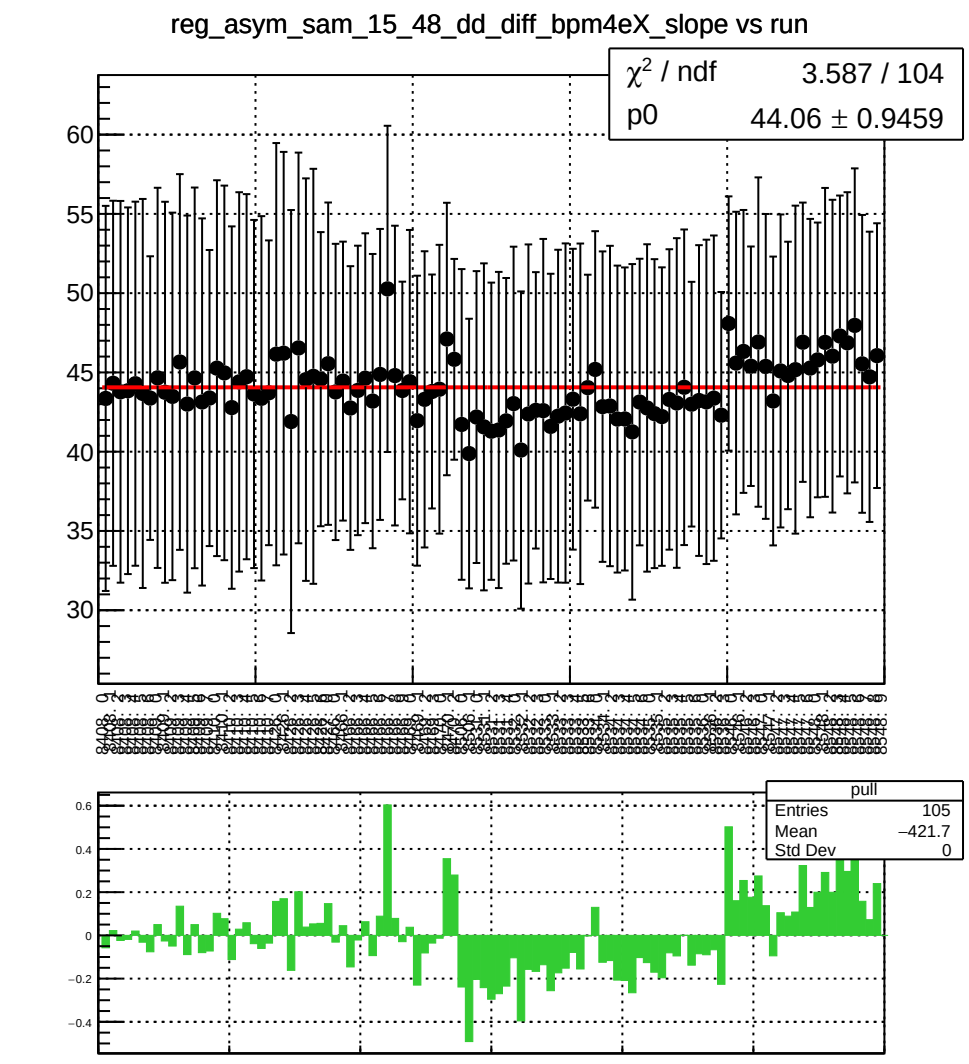

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 14.94 / 104
p0 2.679 ± 2.132
pull
Entries 105
Mean −113
Std Dev 0
pull1D
Entries 105
Mean −0.05058
Std Dev 0.3738

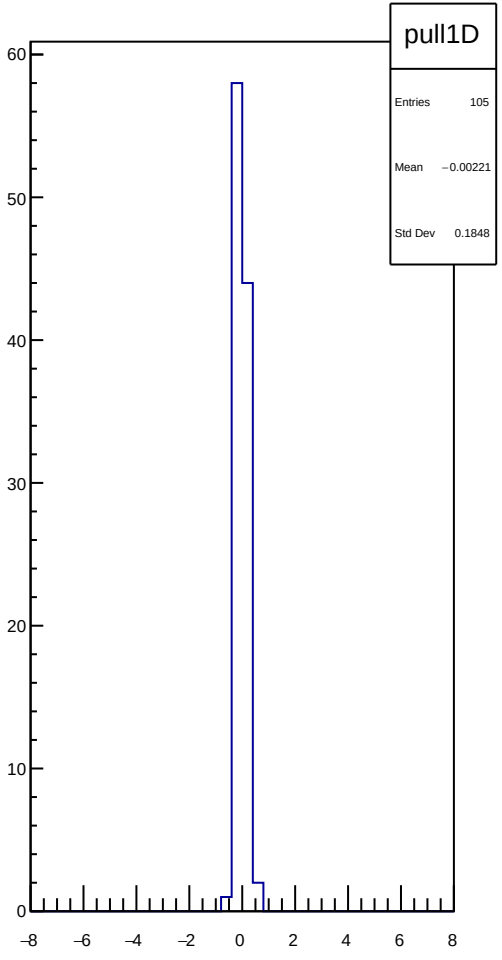

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 5.309 / 104
p0 2.348 ± 0.1271
pull
Entries 105
Mean −115.3
Std Dev 0
pull1D
Entries 105
Mean 0.01613
Std Dev 0.2243

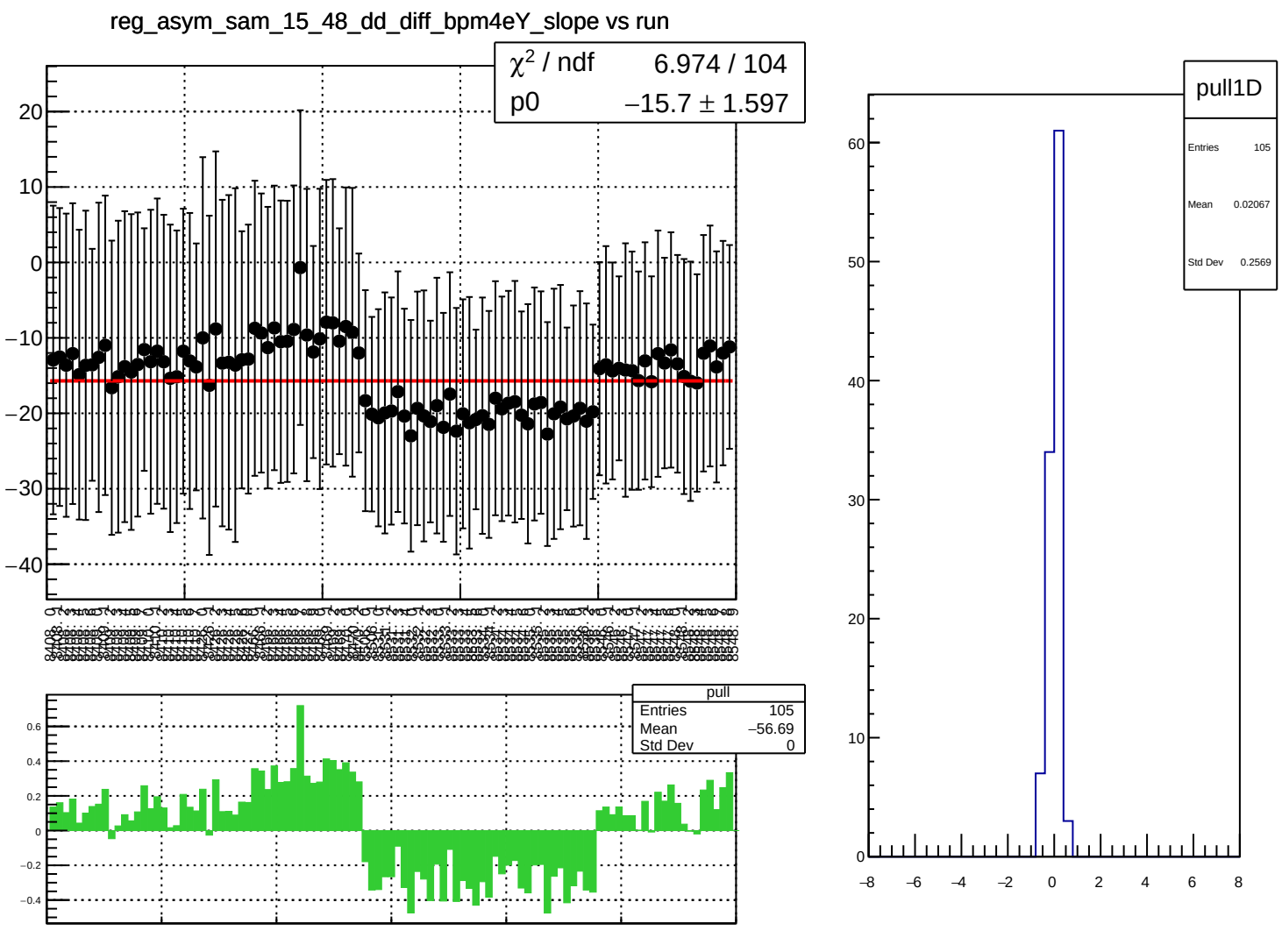

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 9.287 / 104
p0 2.214 ± 0.8627
pull
Entries 105
Mean −45.58
Std Dev 0
pull1D
Entries 105
Mean 0.02746
Std Dev 0.2961

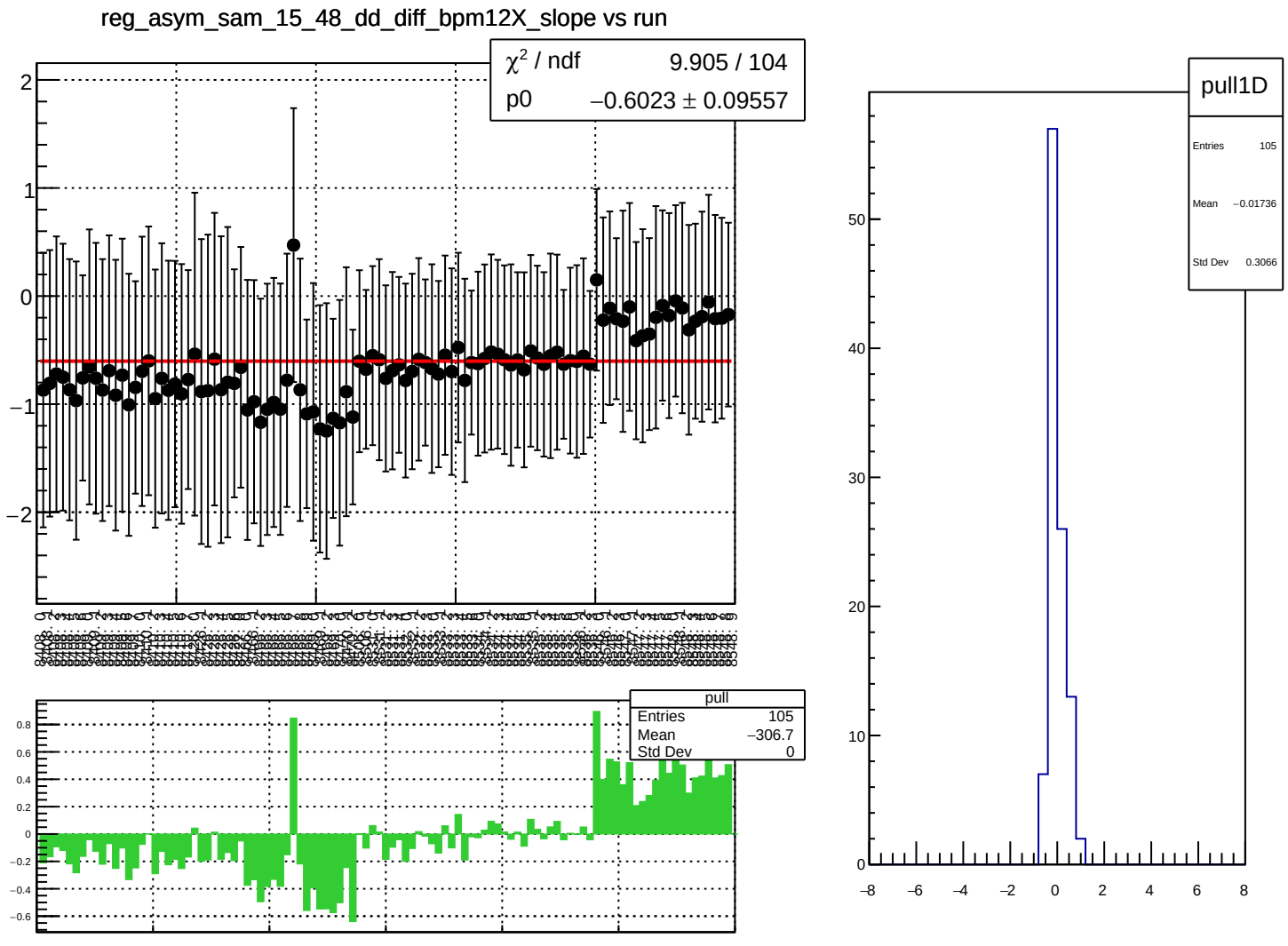

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.069 / 104
p0 −12.22 ± 1.501
10
0
−10
−20
−30
−40
pull
Entries 105
Mean −30.34
Std Dev 0
0.4
0.2
0
−0.2
−0.4

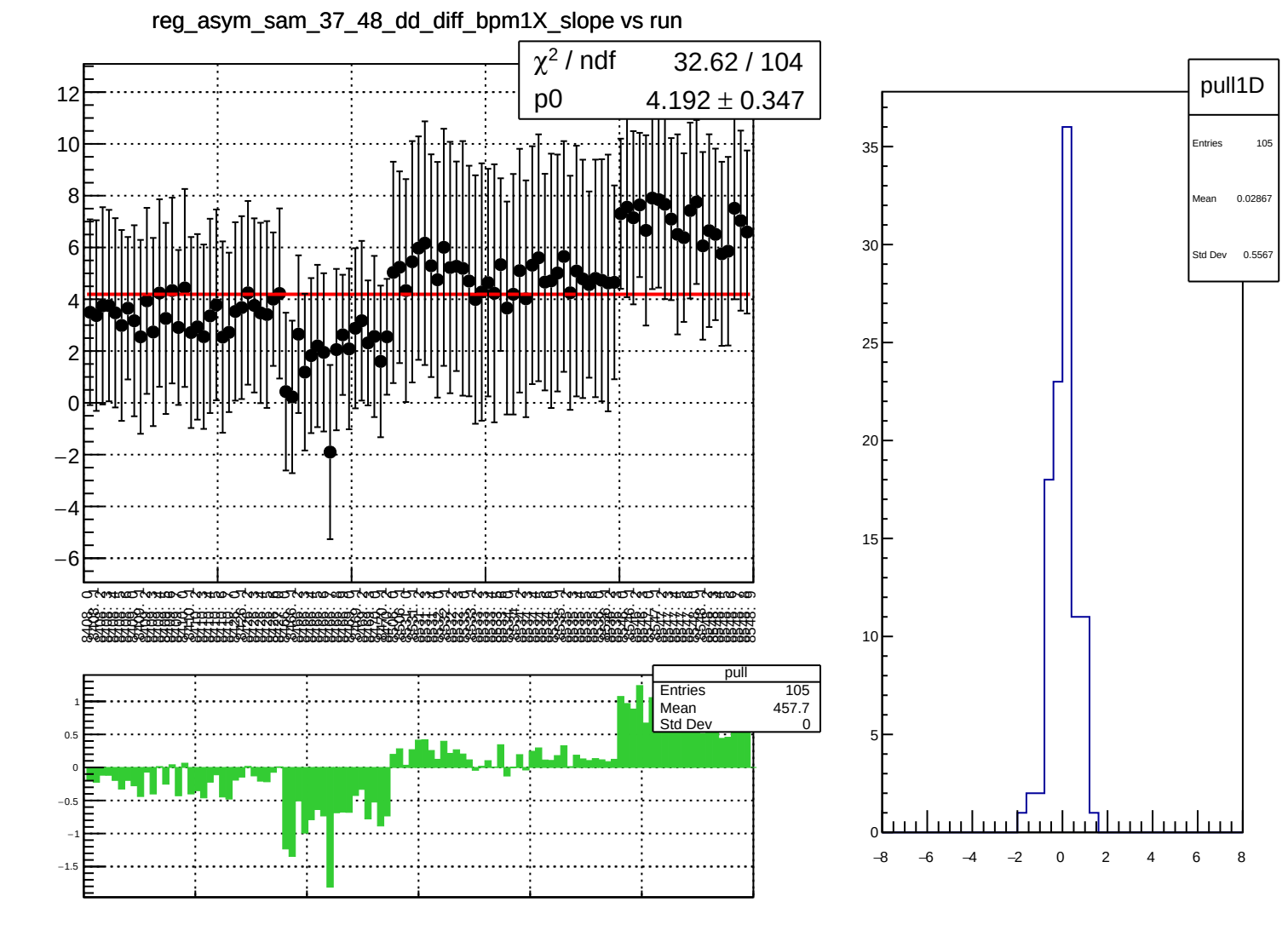

pull1D
Entries 105
Mean −0.01726
Std Dev 0.219
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

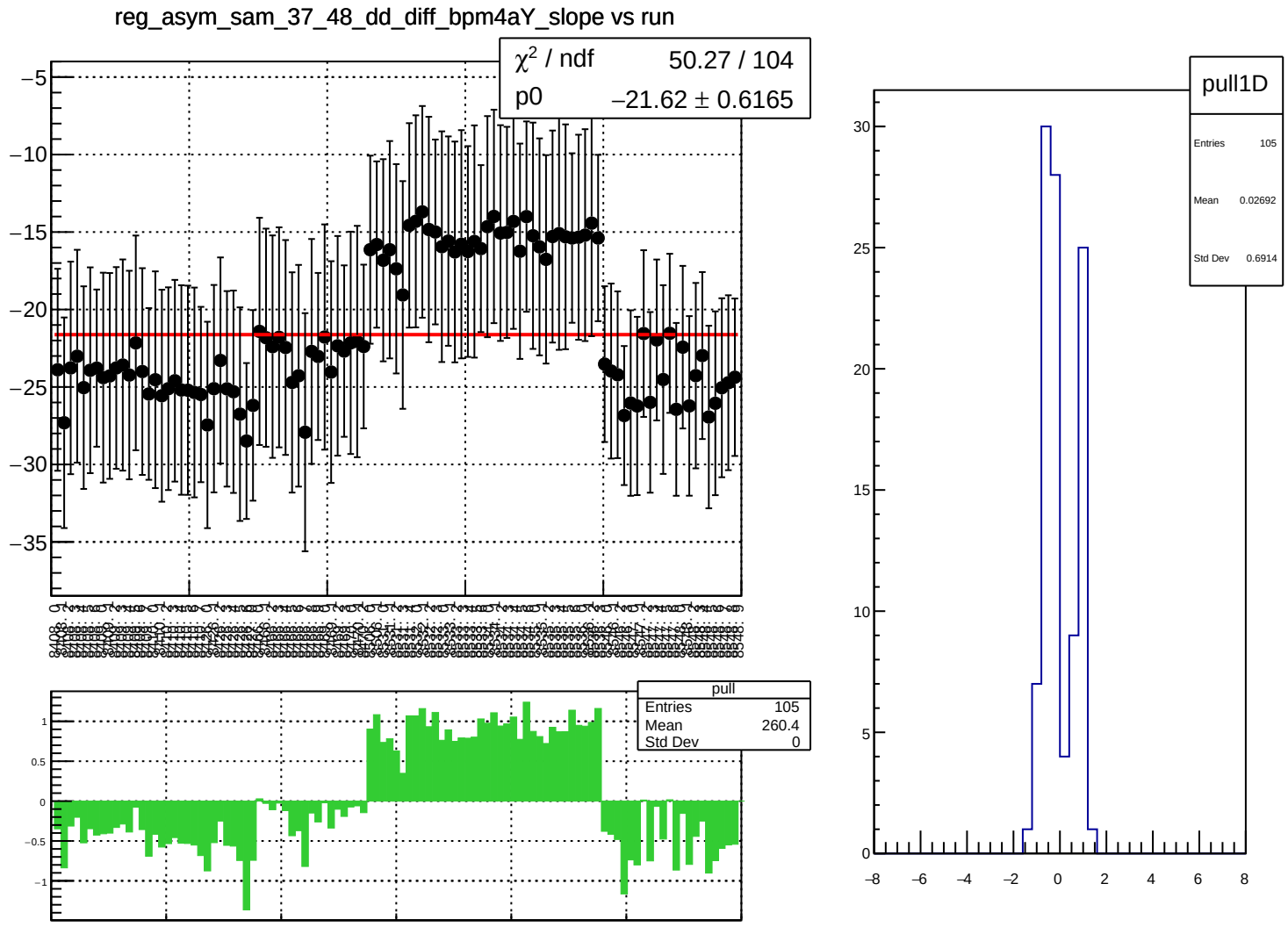

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.587 / 104
p0 44.06 ± 0.9459
pull
Entries 105
Mean −421.7
Std Dev 0

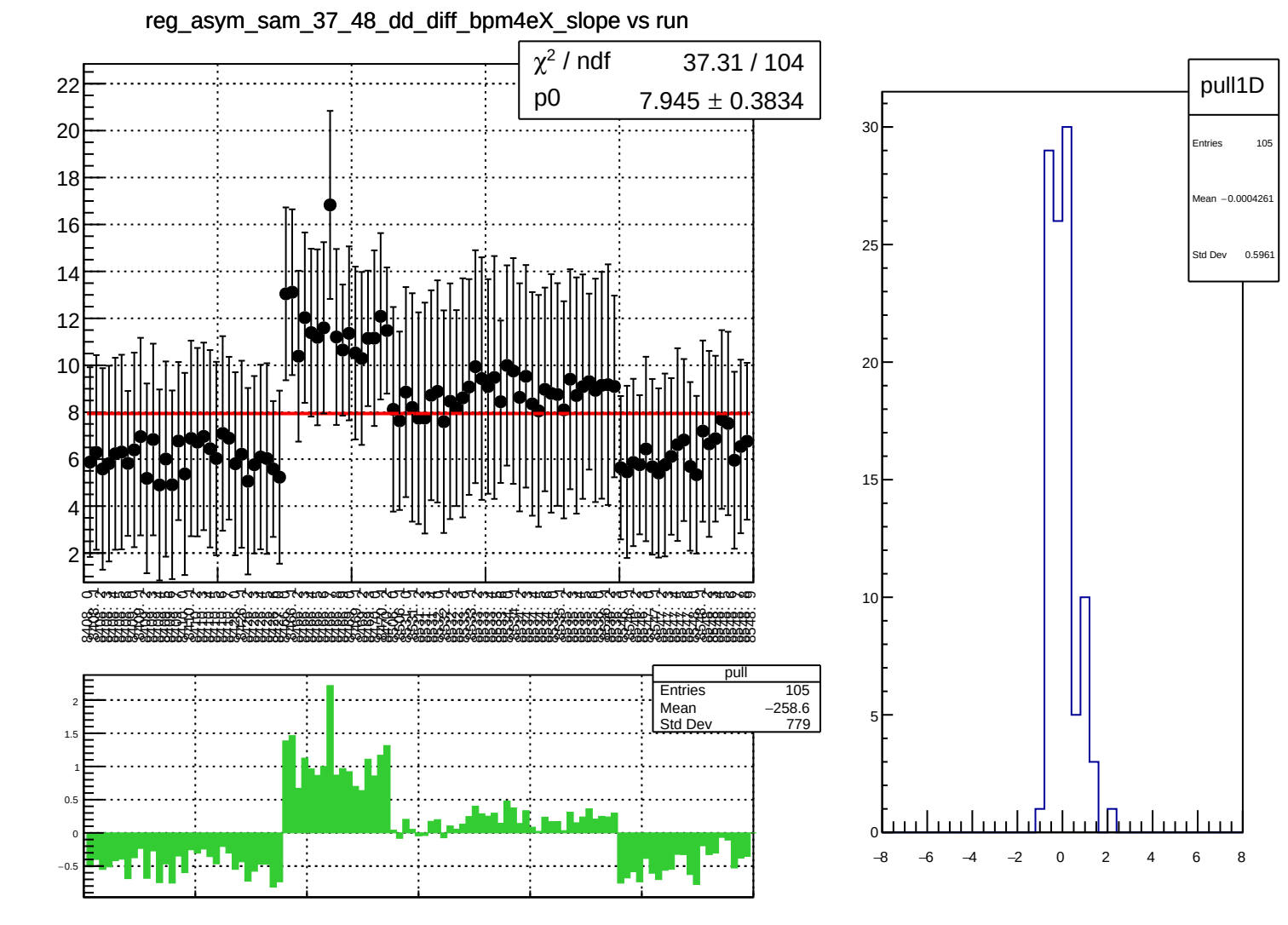

pull1D
Entries 105
Mean −0.00221
Std Dev 0.1848

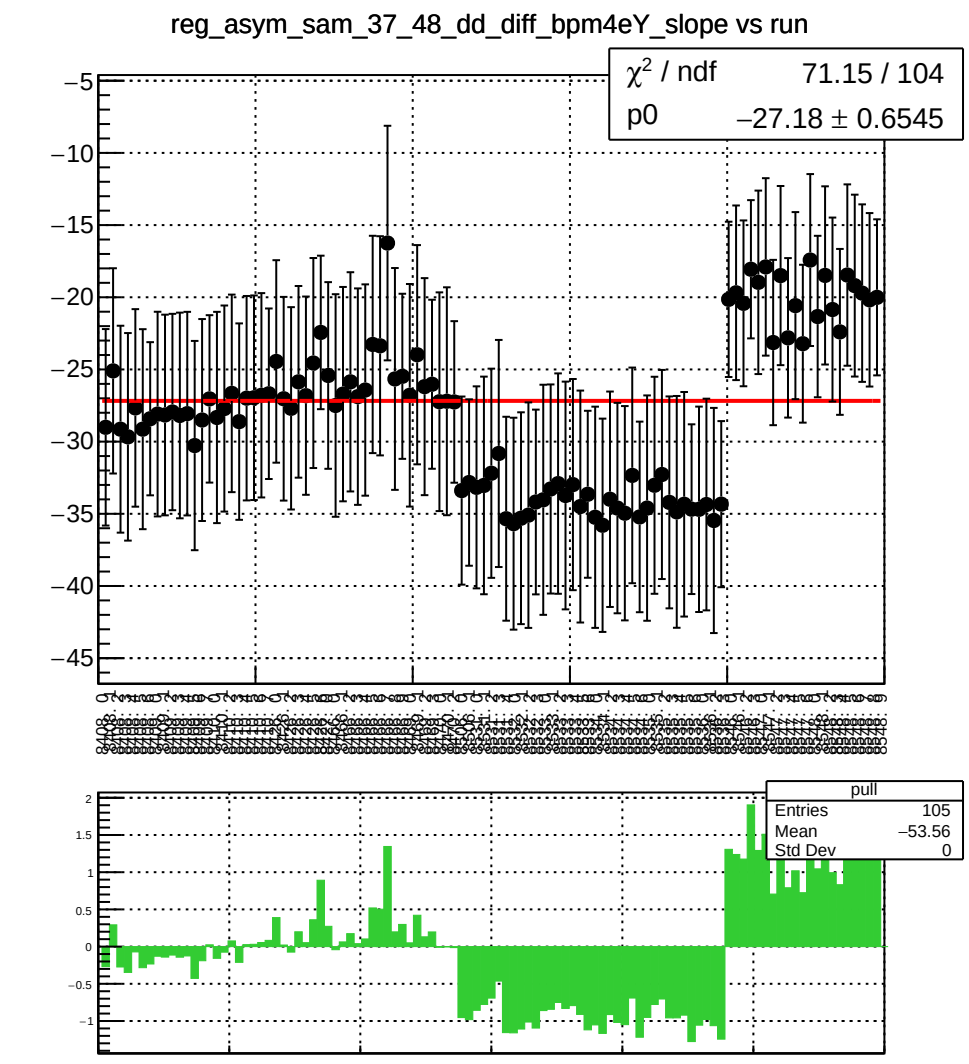

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 6.974 / 104
p0 −15.7 ± 1.597
20
10
0
−10
−20
−30
−40
pull
Entries 105
Mean −56.69
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 105
Mean 0.02067
Std Dev 0.2569
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

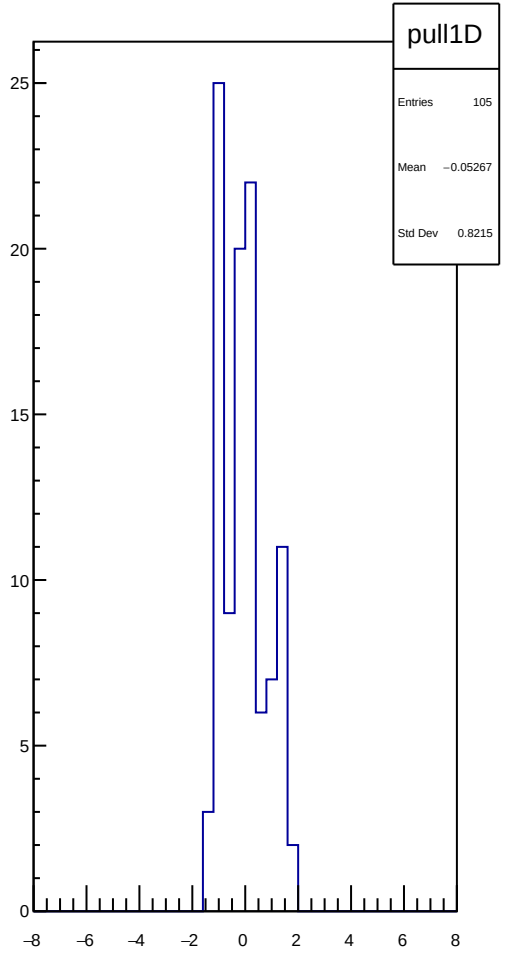

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 9.905 / 104
p0 −0.6023 ± 0.09557
pull
Entries 105
Mean −306.7
Std Dev 0
pull1D
Entries 105
Mean −0.01736
Std Dev 0.3066

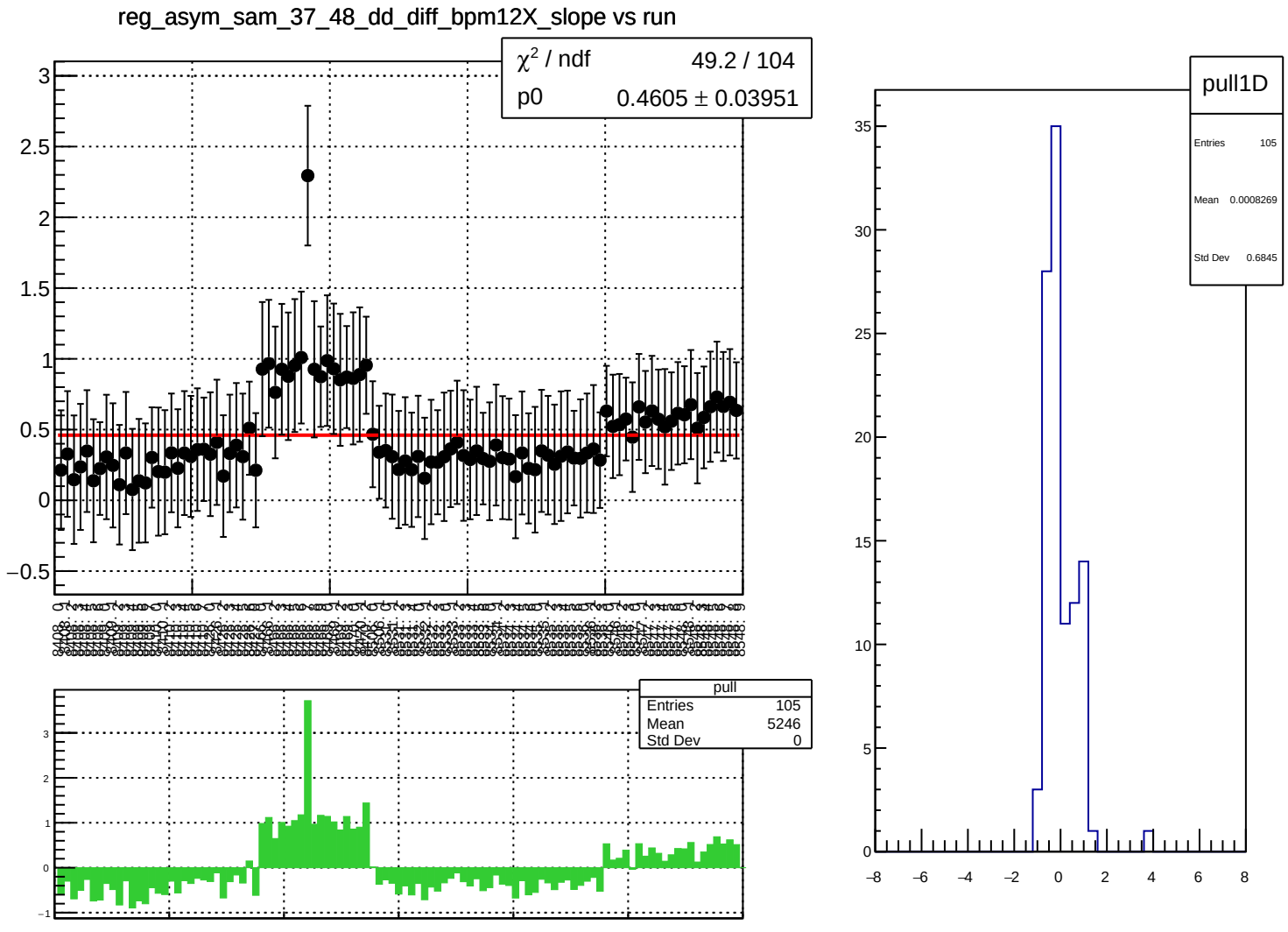

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 32.62 / 104
p0 4.192 ± 0.347
pull
Entries 105
Mean 457.7
Std Dev 0
pull1D
Entries 105
Mean 0.02867
Std Dev 0.5567

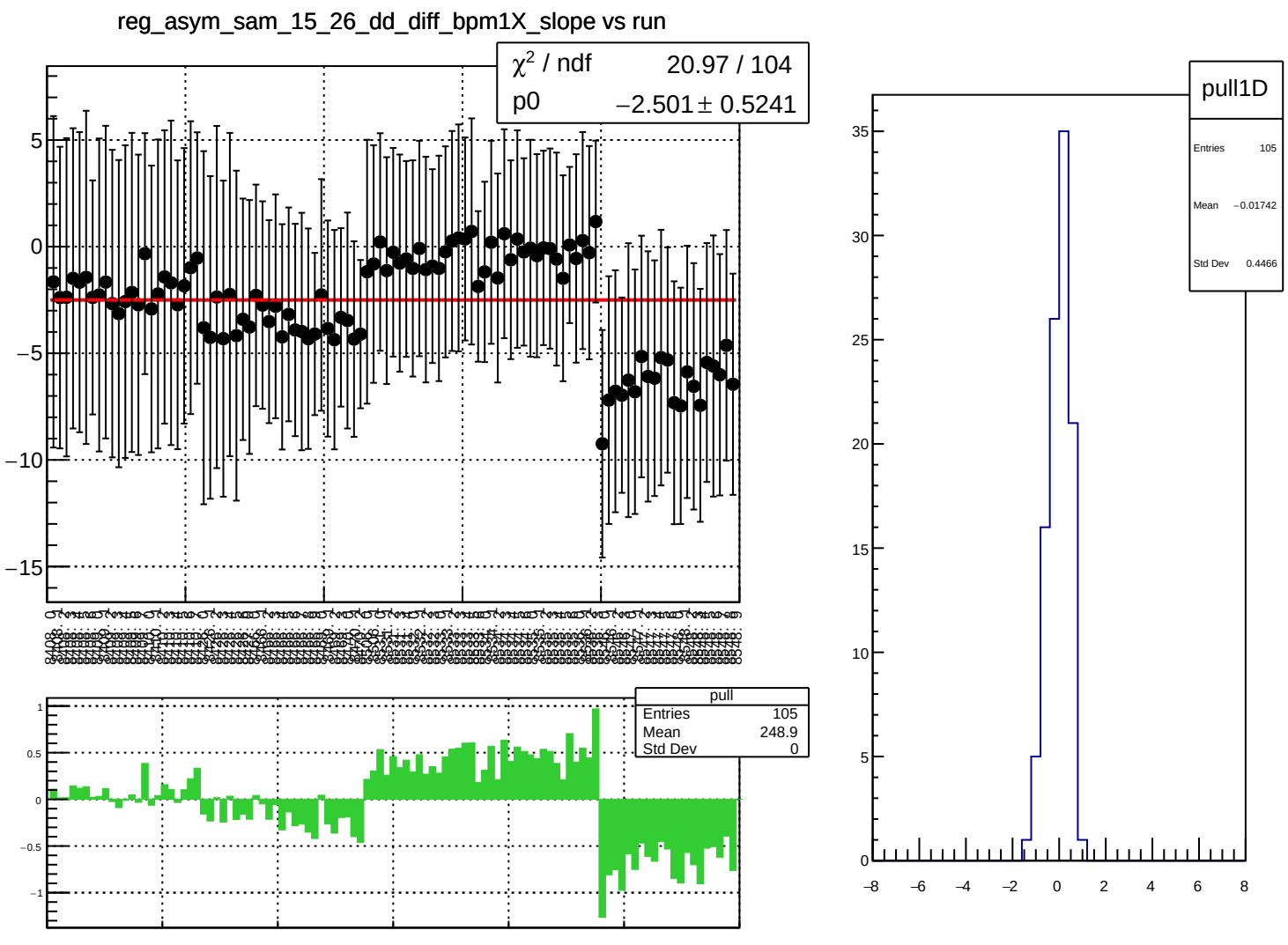

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 50.27 / 104
p0 −21.62 ± 0.6165
−5
−10
−15
−20
−25
−30
−35
pull
Entries 105
Mean 260.4
Std Dev 0
1
0.5
0
−0.5
−1
pull1D
Entries 105
Mean 0.02692
Std Dev 0.6914
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

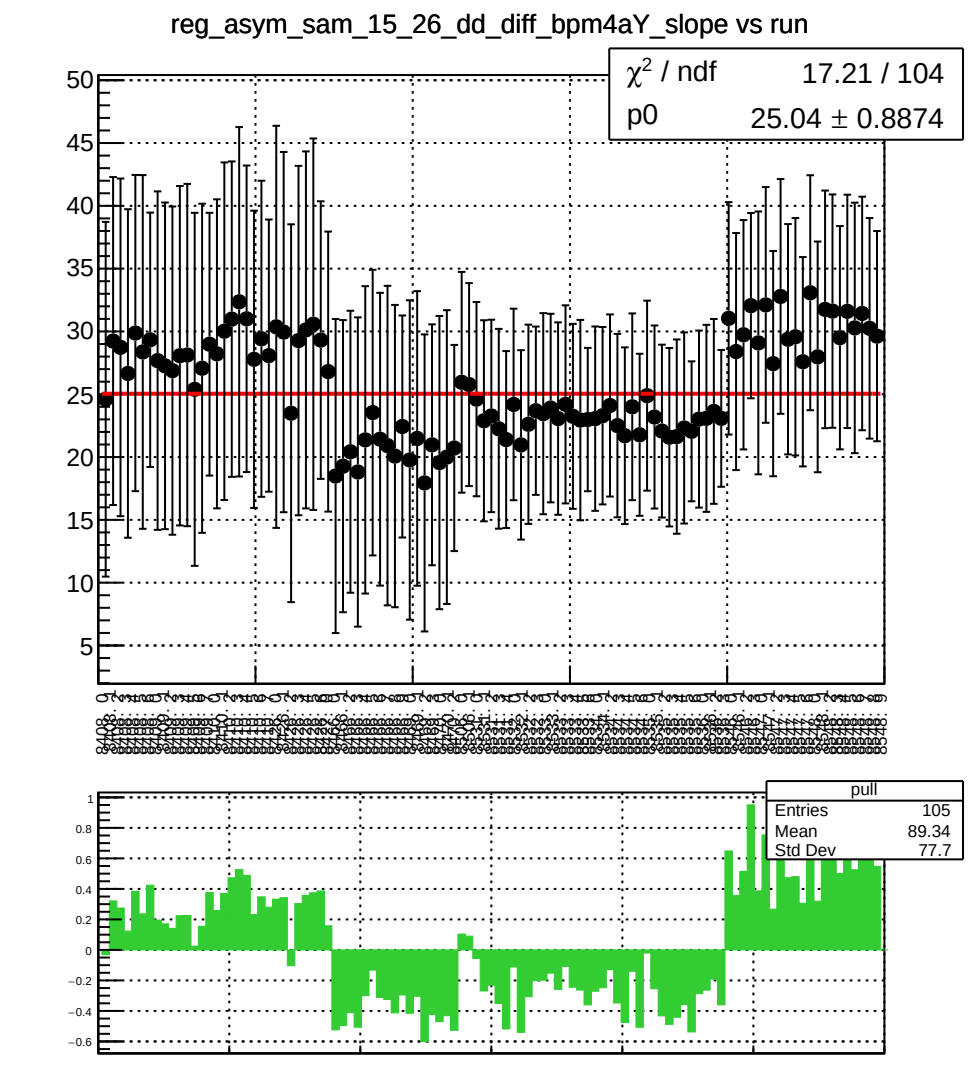

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 37.31 / 104
p0 7.945 ± 0.3834
pull
Entries 105
Mean −258.6
Std Dev 779
pull1D
Entries 105
Mean −0.0004261
Std Dev 0.5961

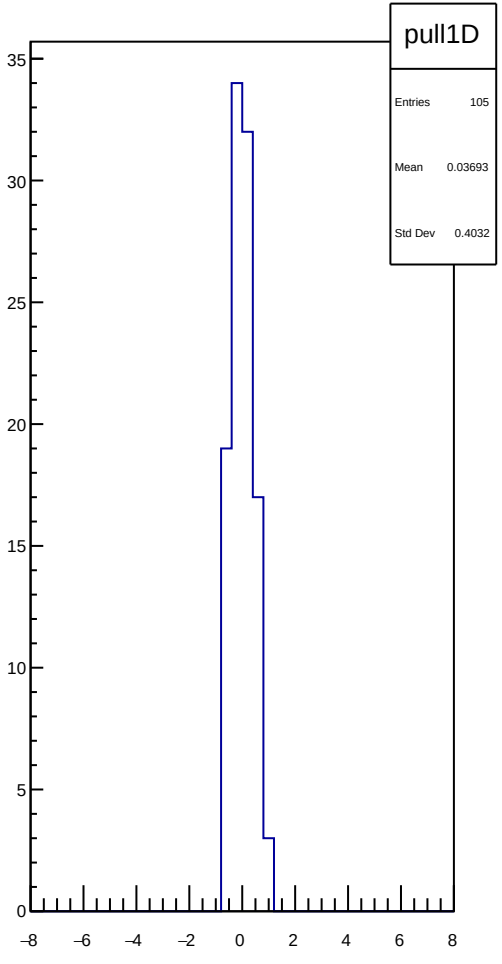

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 71.15 / 104
p0 −27.18 ± 0.6545
pull
Entries 105
Mean −53.56
Std Dev 0

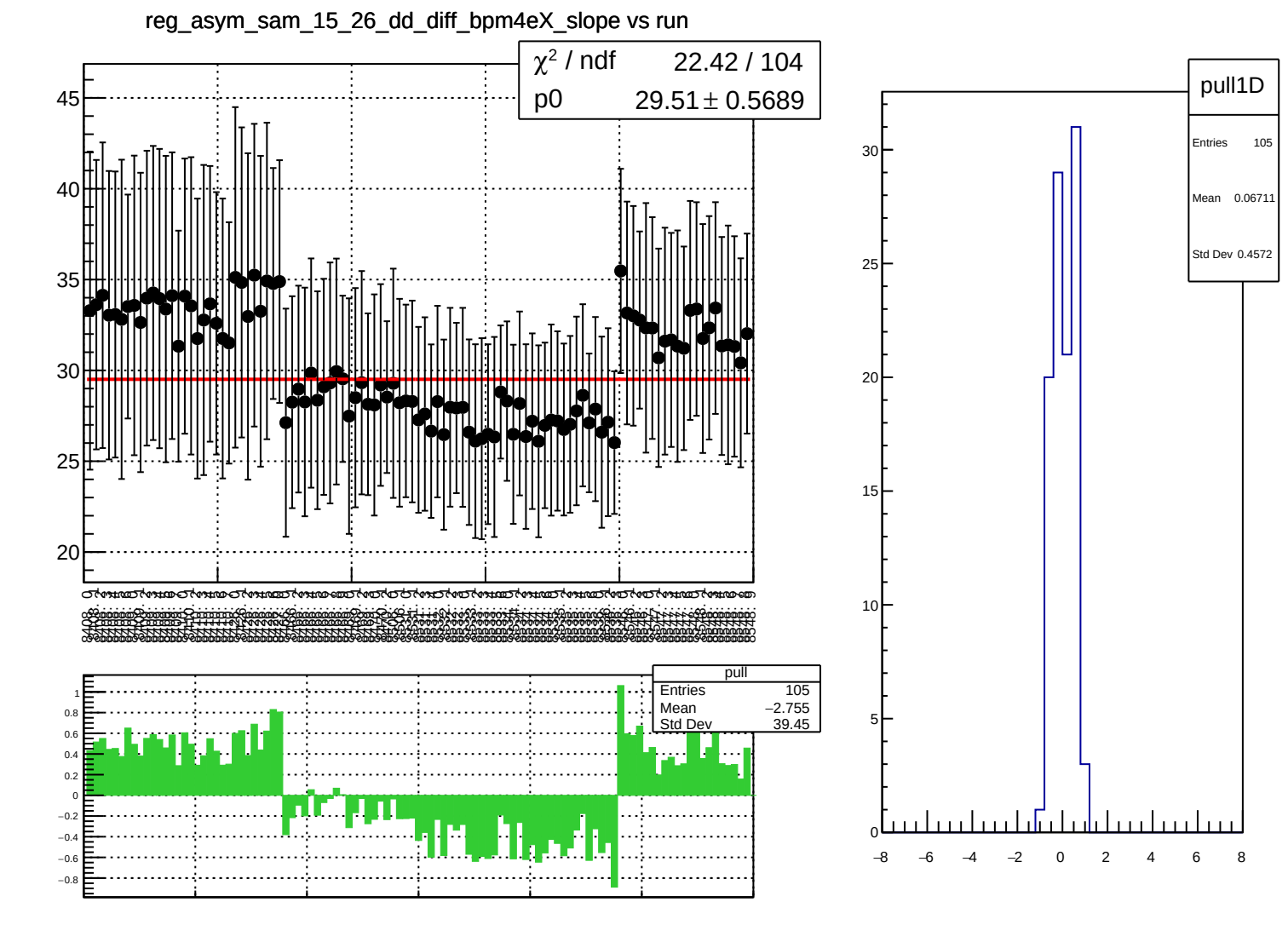

pull1D
Entries 105
Mean −0.05267
Std Dev 0.8215

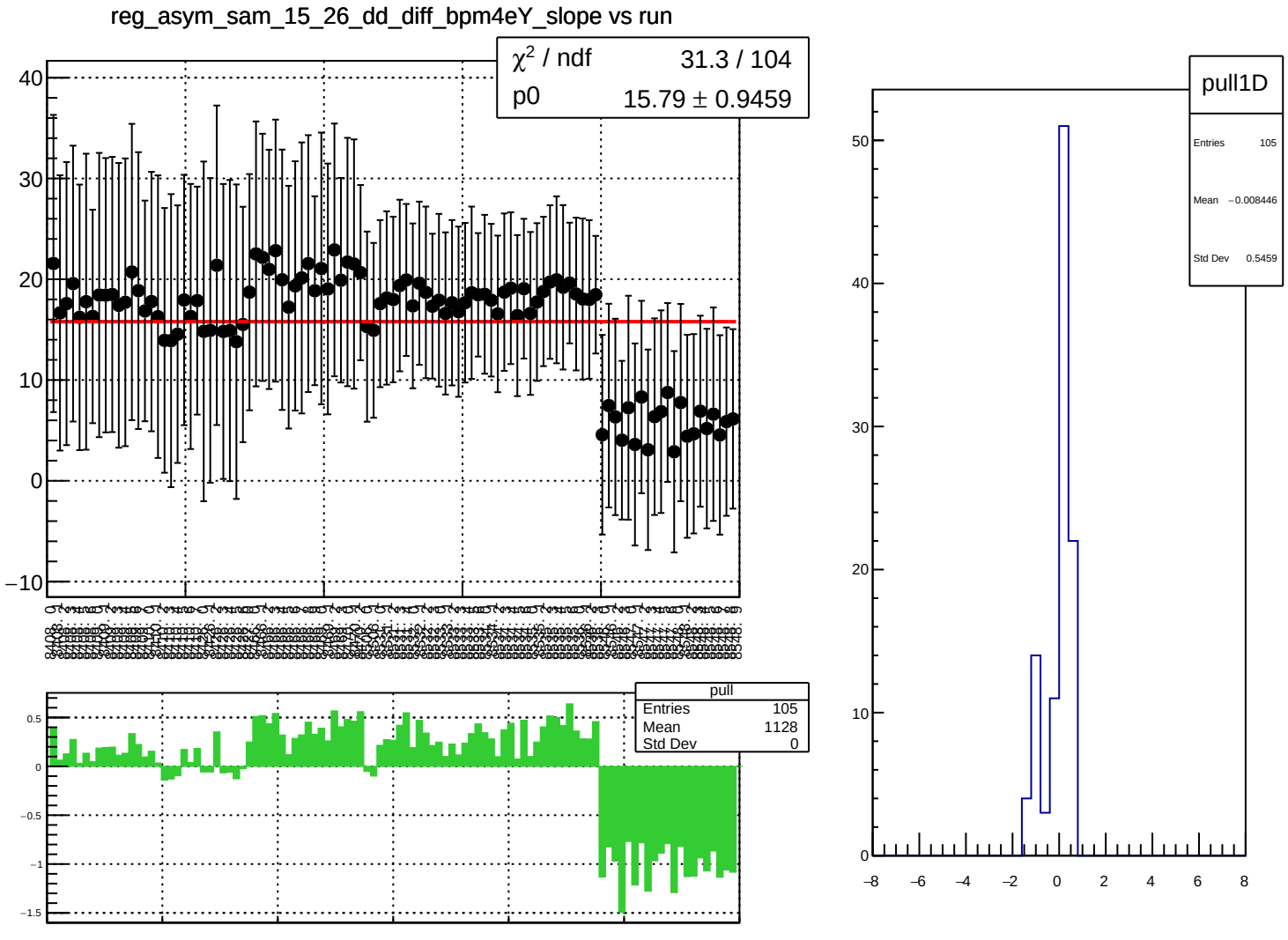

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 49.2 / 104
p0 0.4605 ± 0.03951
pull
Entries 105
Mean 5246
Std Dev 0
pull1D
Entries 105
Mean 0.0008269
Std Dev 0.6845

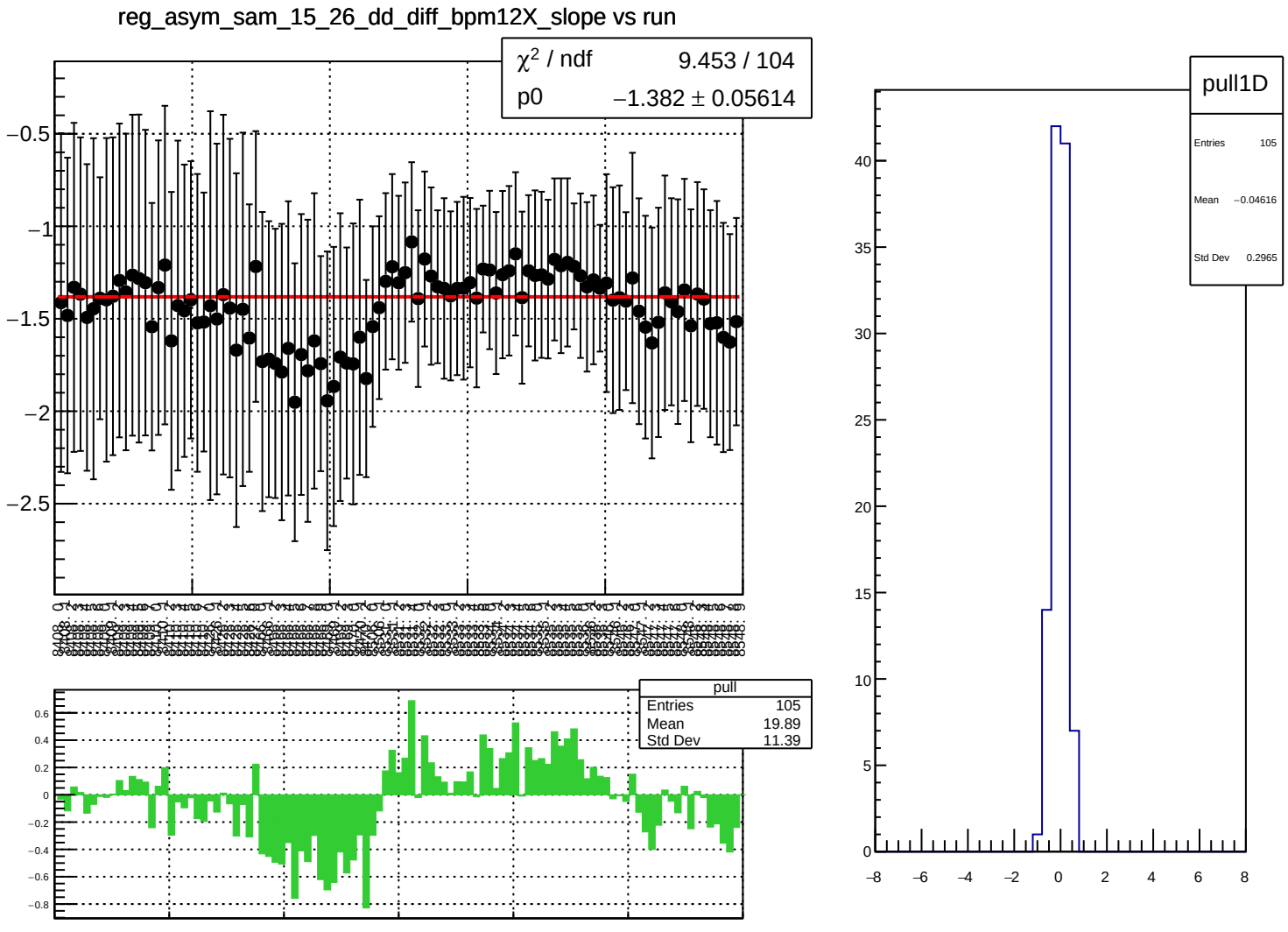

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 20.97 / 104
p0 −2.501 ± 0.5241
pull
Entries 105
Mean 248.9
Std Dev 0
pull1D
Entries 105
Mean −0.01742
Std Dev 0.4466

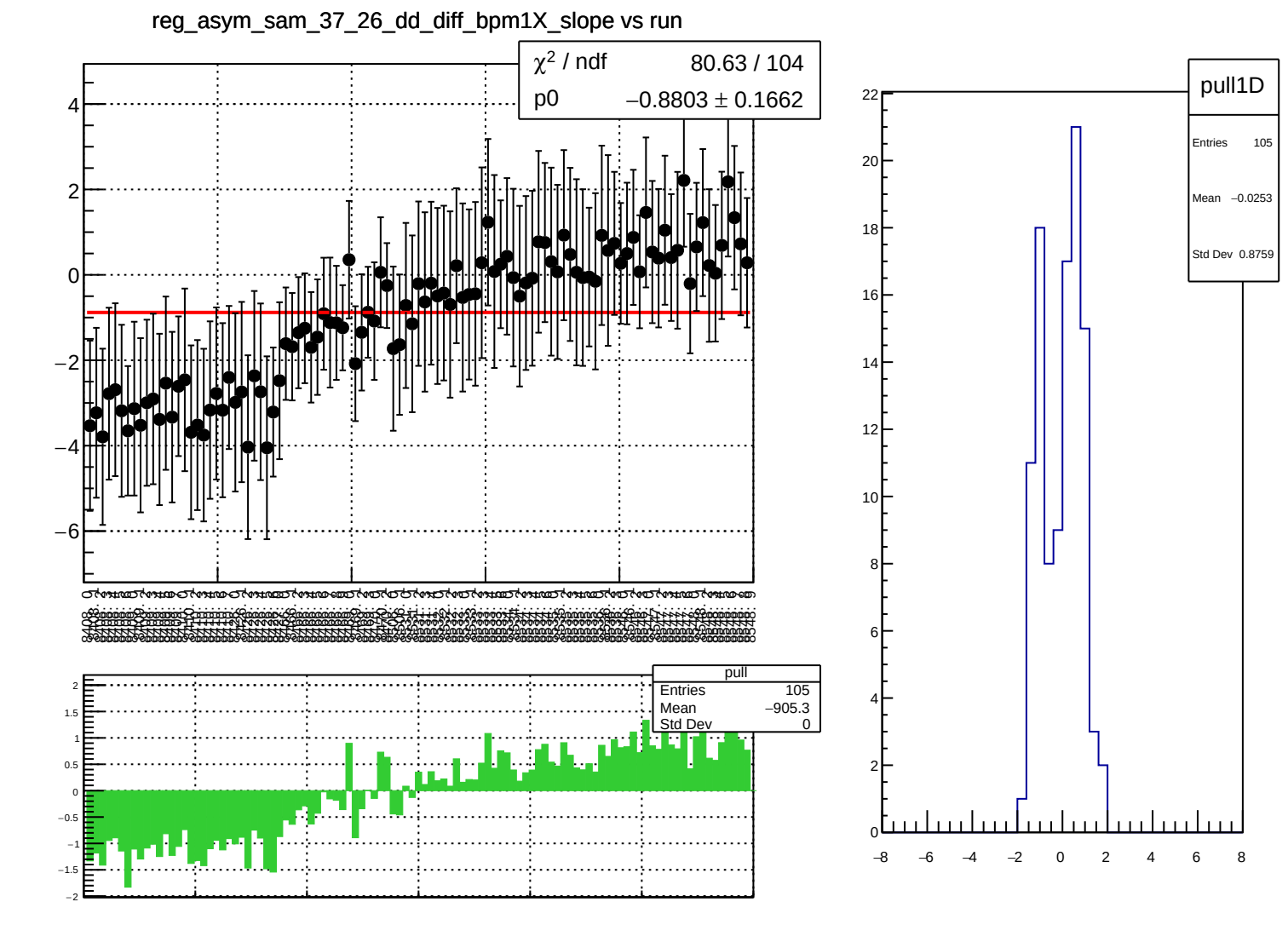

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 17.21 / 104
p0 25.04 ± 0.8874
pull
Entries 105
Mean 89.34
Std Dev 77.7

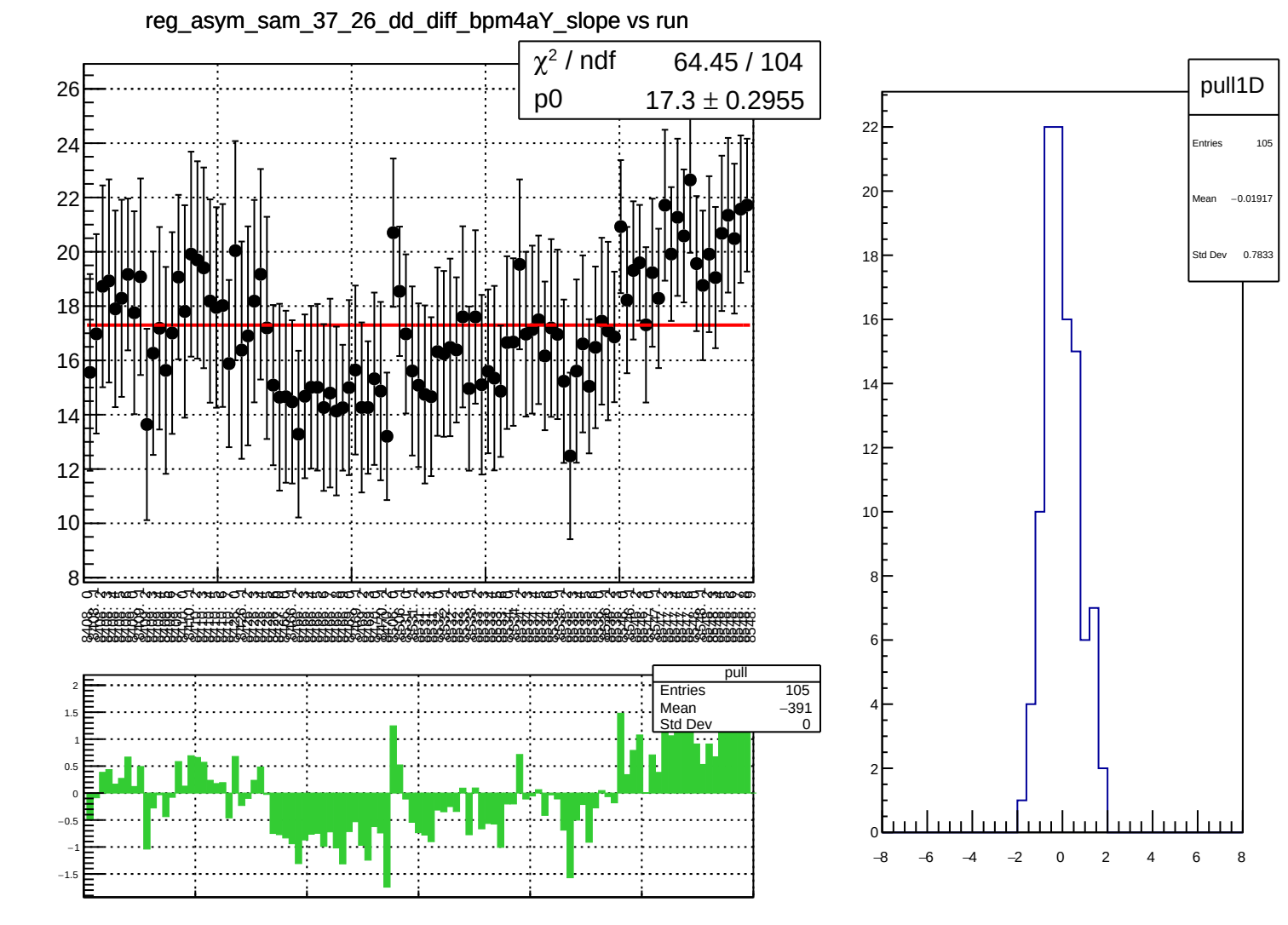

pull1D
Entries 105
Mean 0.03693
Std Dev 0.4032

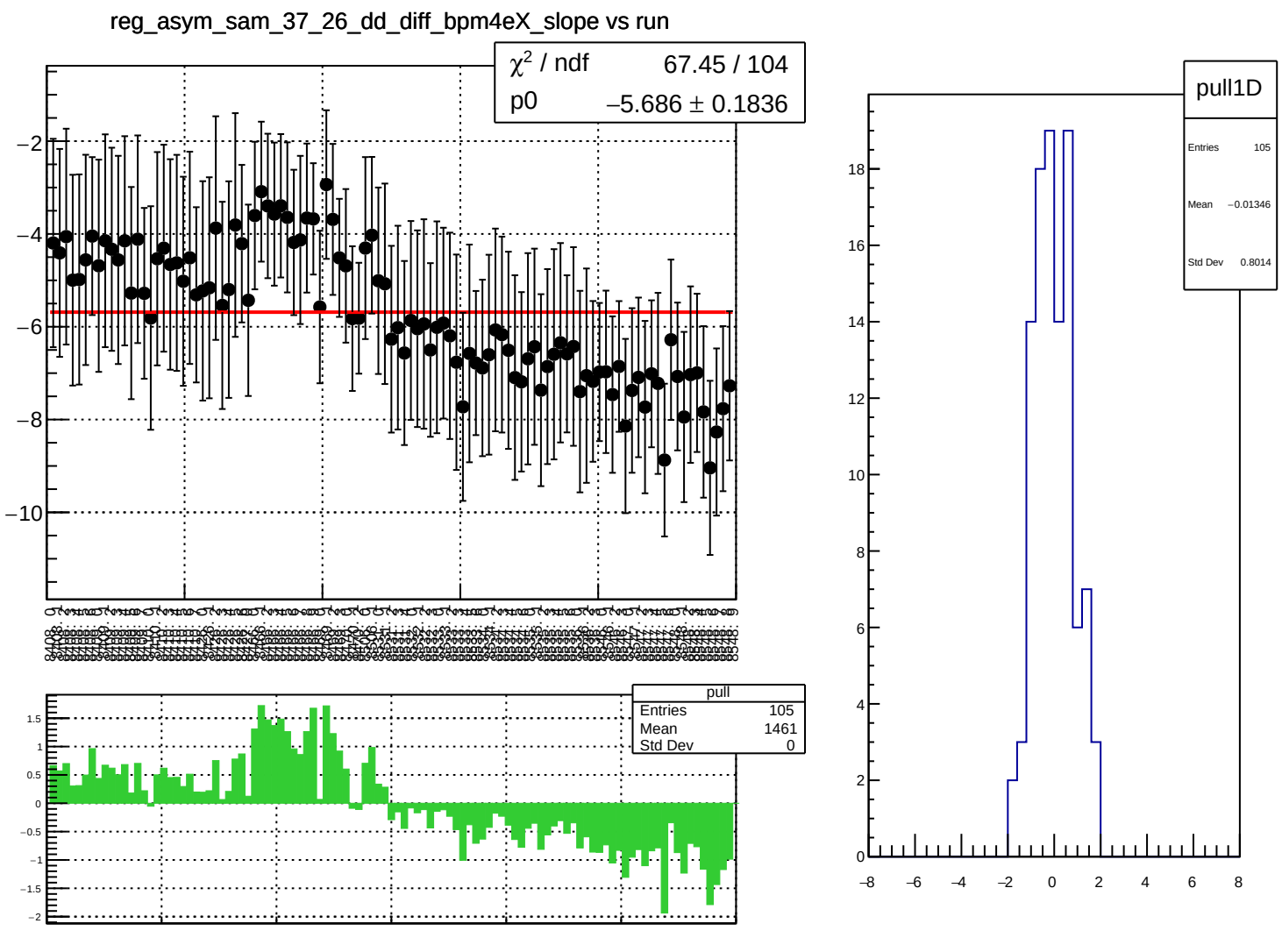

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 22.42 / 104
p0 29.51 ± 0.5689
pull
Entries 105
Mean −2.755
Std Dev 39.45
pull1D
Entries 105
Mean 0.06711
Std Dev 0.4572

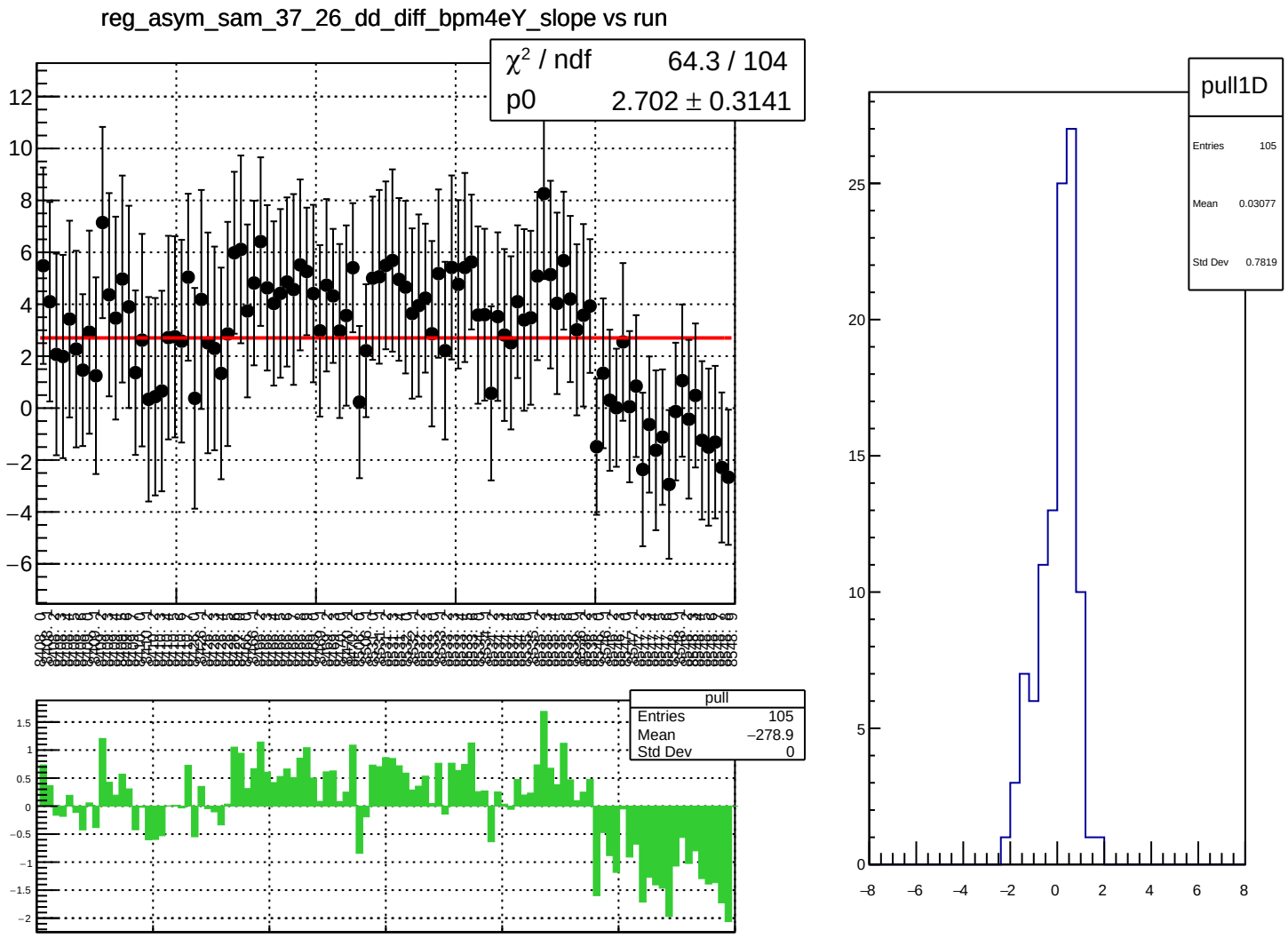

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 31.3 / 104
p0 15.79 ± 0.9459
pull
Entries 105
Mean 1128
Std Dev 0
pull1D
Entries 105
Mean −0.008446
Std Dev 0.5459

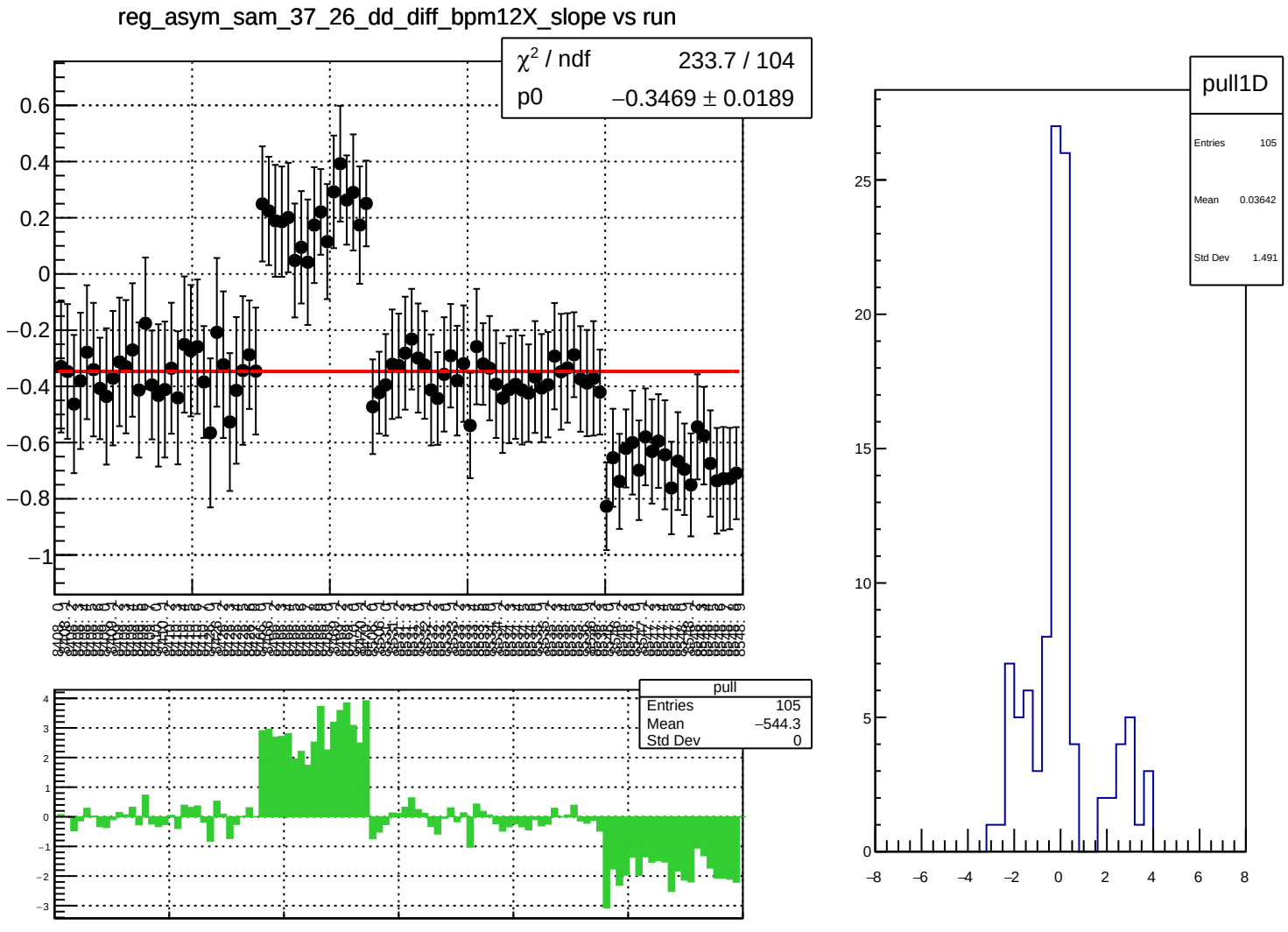

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 9.453 / 104
p0 −1.382 ± 0.05614
−0.5
−1
−1.5
−2
−2.5
pull
Entries 105
Mean 19.89
Std Dev 11.39
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 105
Mean −0.04616
Std Dev 0.2965
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

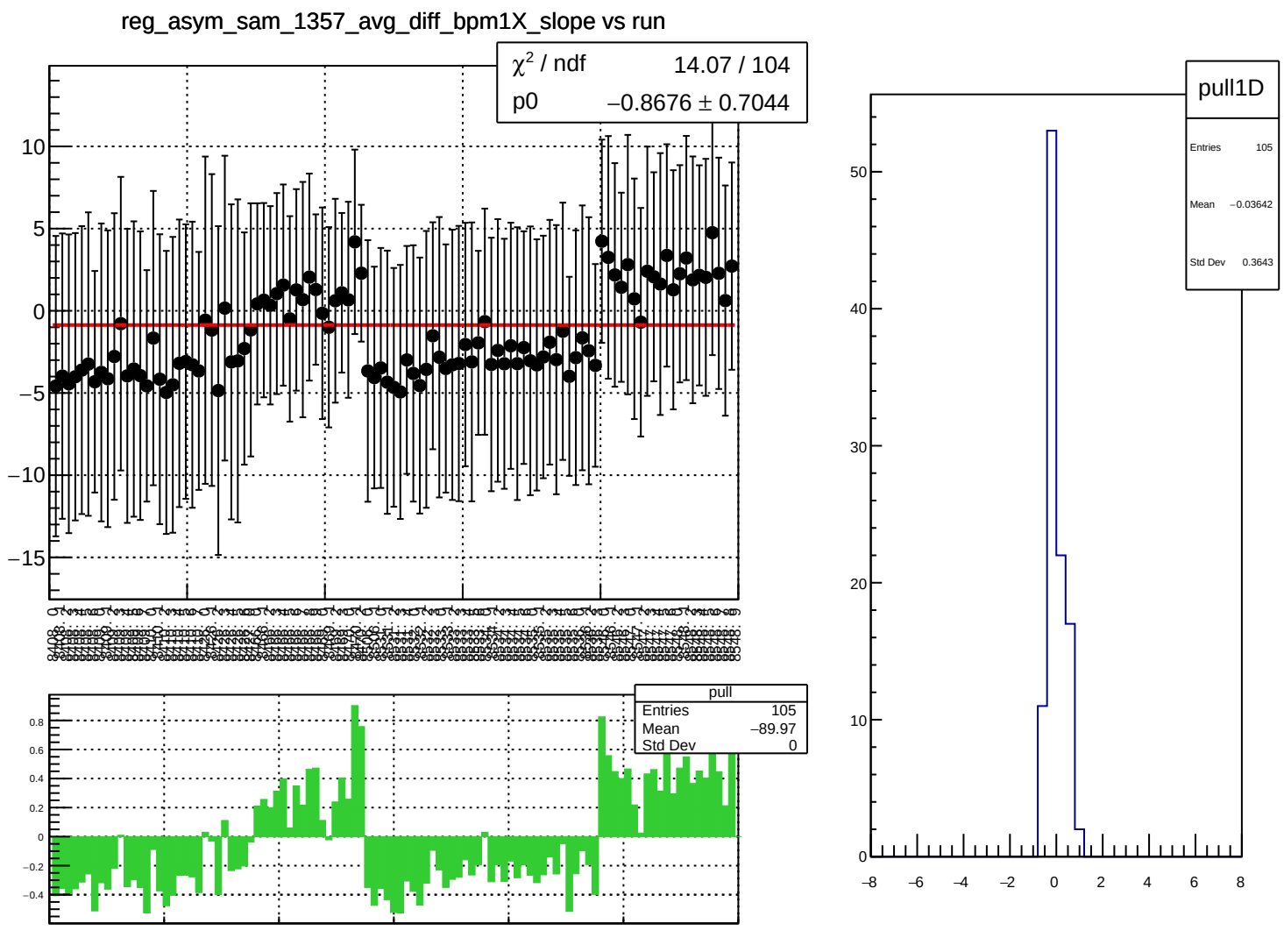

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 80.63 / 104
p0 −0.8803 ± 0.1662
pull
Entries 105
Mean −905.3
Std Dev 0
pull1D
Entries 105
Mean −0.0253
Std Dev 0.8759

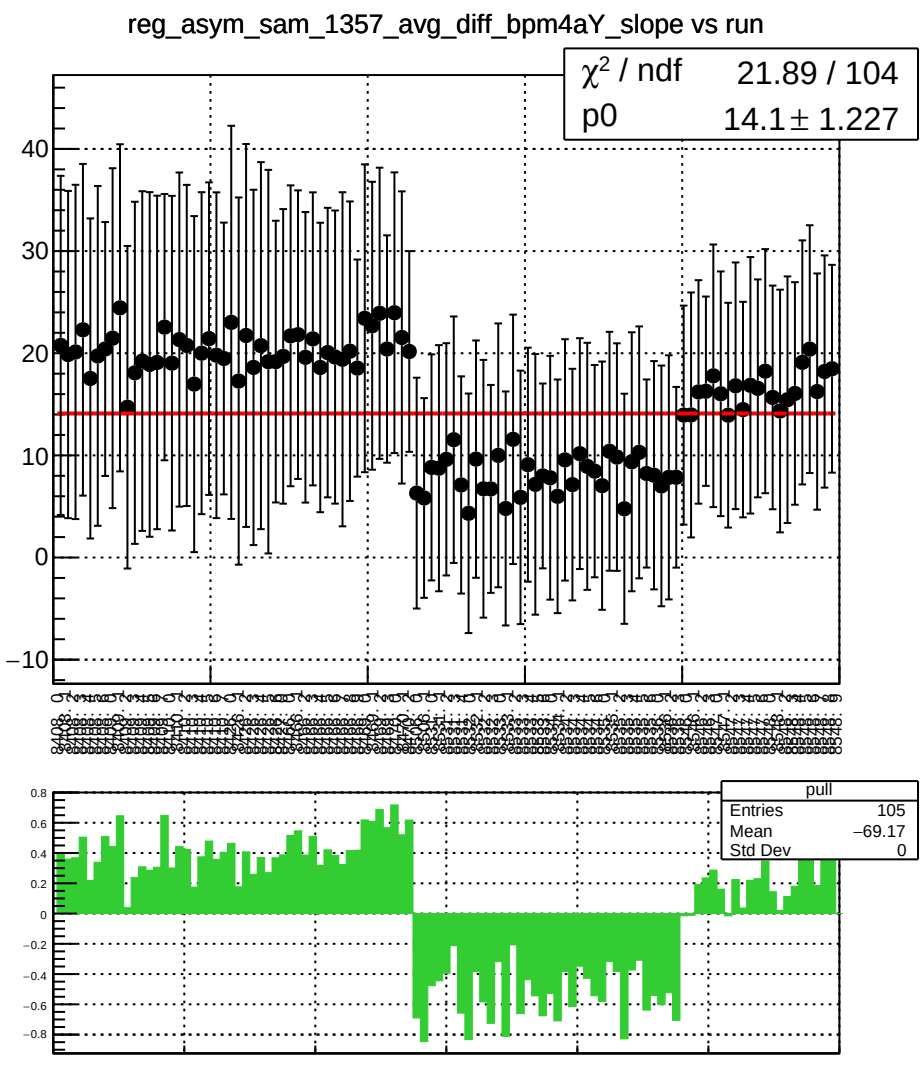

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 64.45 / 104
p0 17.3 ± 0.2955
pull
Entries 105
Mean −391
Std Dev 0
pull1D
Entries 105
Mean −0.01917
Std Dev 0.7833

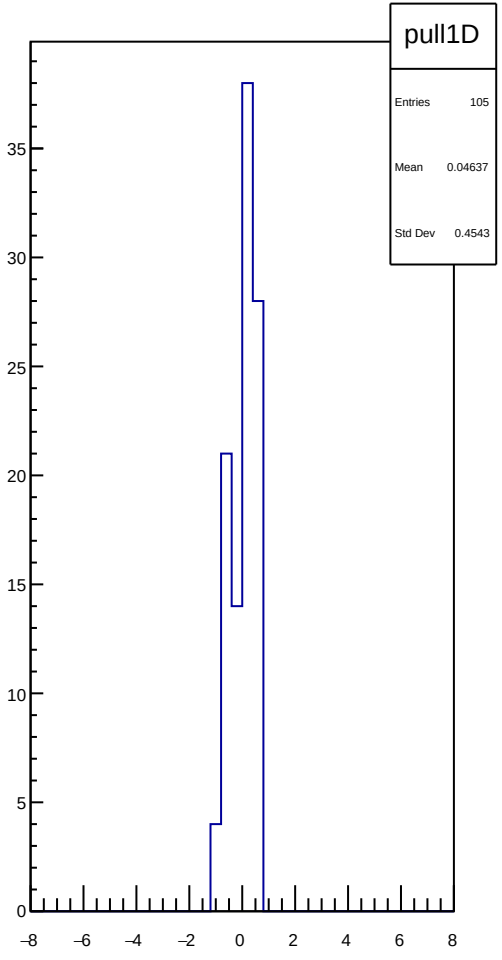

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 67.45 / 104
p0 −5.686 ± 0.1836
pull
Entries 105
Mean 1461
Std Dev 0
pull1D
Entries 105
Mean −0.01346
Std Dev 0.8014

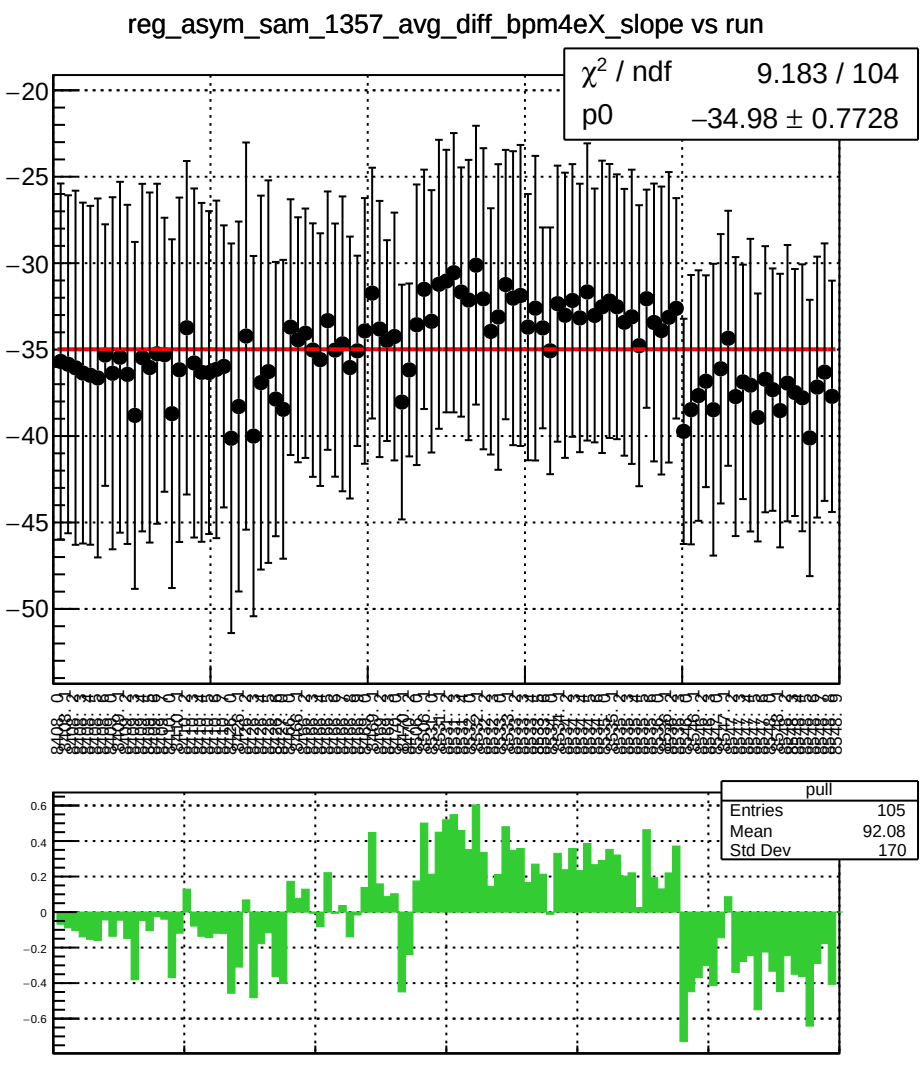

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 64.3 / 104
p0 2.702 ± 0.3141
pull
Entries 105
Mean −278.9
Std Dev 0
pull1D
Entries 105
Mean 0.03077
Std Dev 0.7819

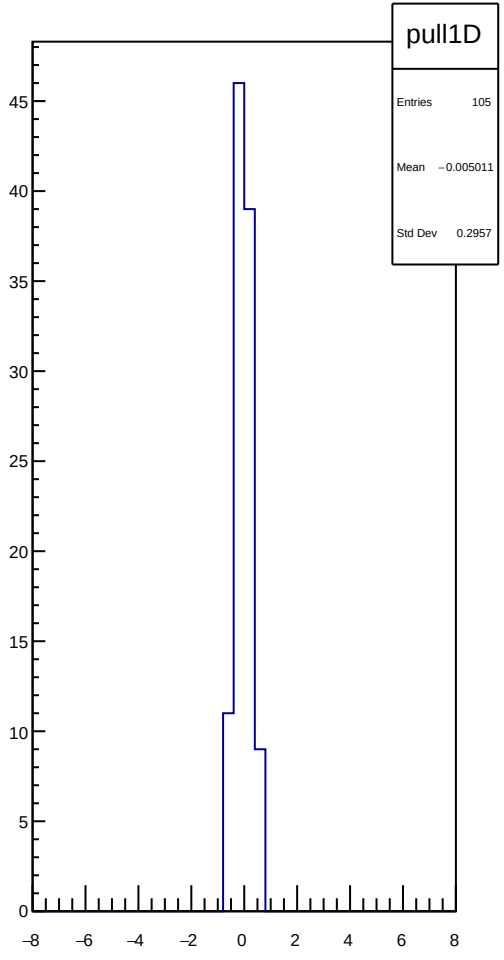

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 233.7 / 104
p0 −0.3469 ± 0.0189
pull
Entries 105
Mean −544.3
Std Dev 0
pull1D
Entries 105
Mean 0.03642
Std Dev 1.491

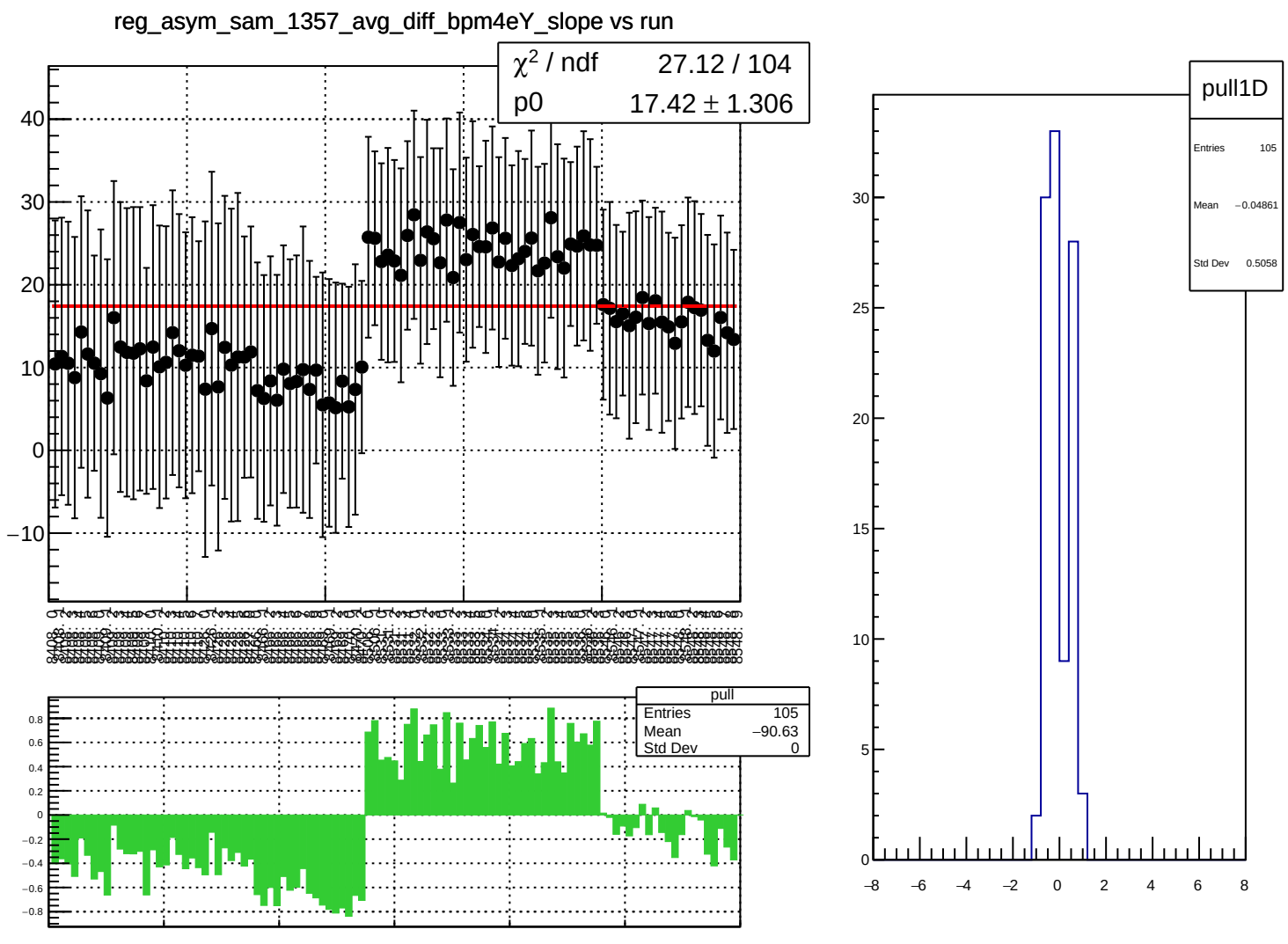

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 14.07 / 104
p0 −0.8676 ± 0.7044
pull
Entries 105
Mean −89.97
Std Dev 0
pull1D
Entries 105
Mean −0.03642
Std Dev 0.3643

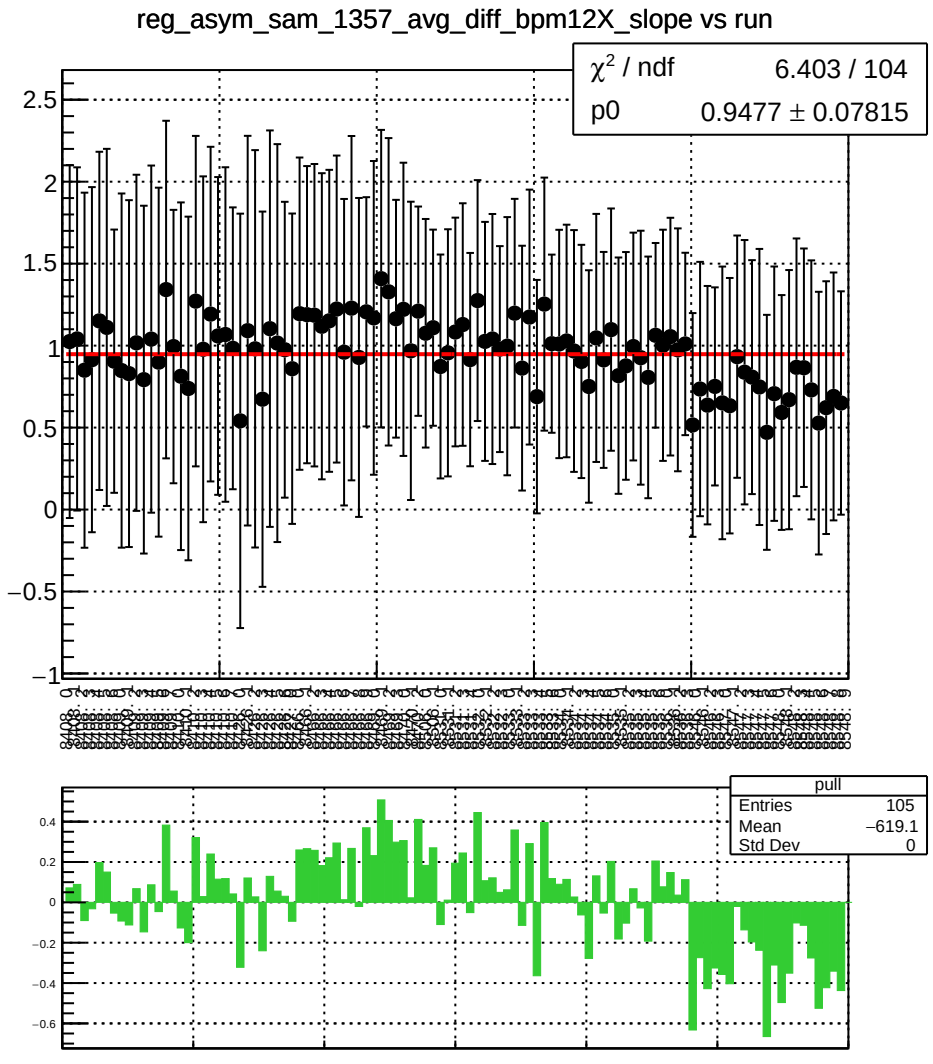

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 21.89 / 104
p0 14.1 ± 1.227
pull
Entries 105
Mean −69.17
Std Dev 0

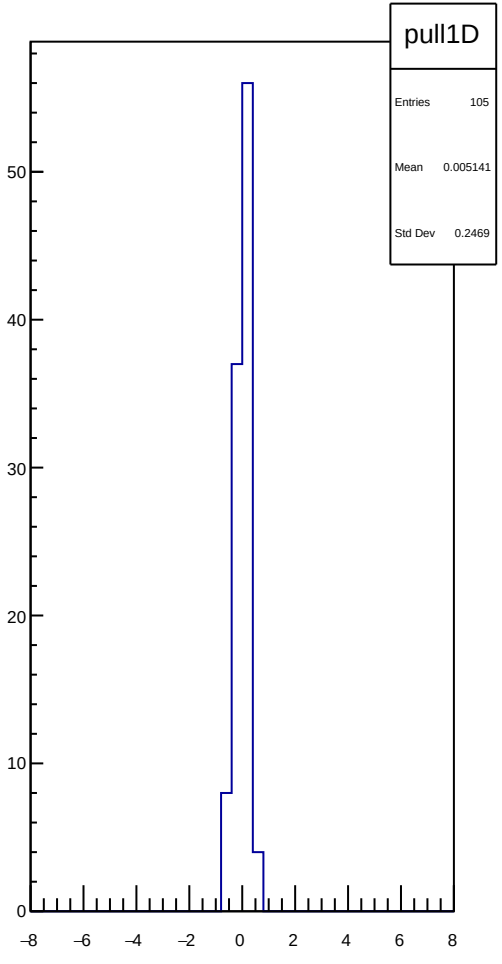

pull1D
Entries 105
Mean 0.04637
Std Dev 0.4543

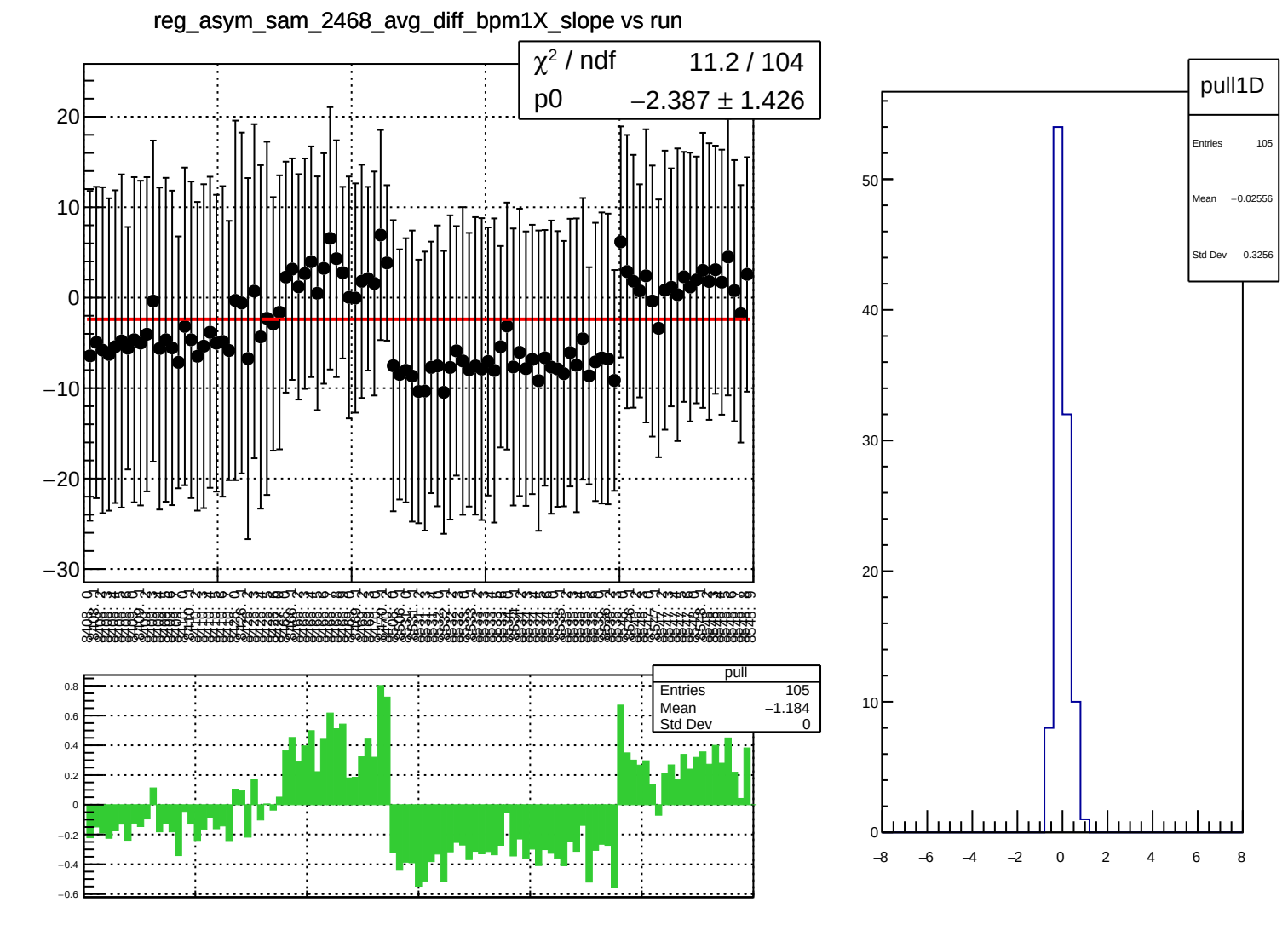

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 9.183 / 104
p0 −34.98 ± 0.7728
−20
−25
−30
−35
−40
−45
−50
pull
Entries 105
Mean 92.08
Std Dev 170
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

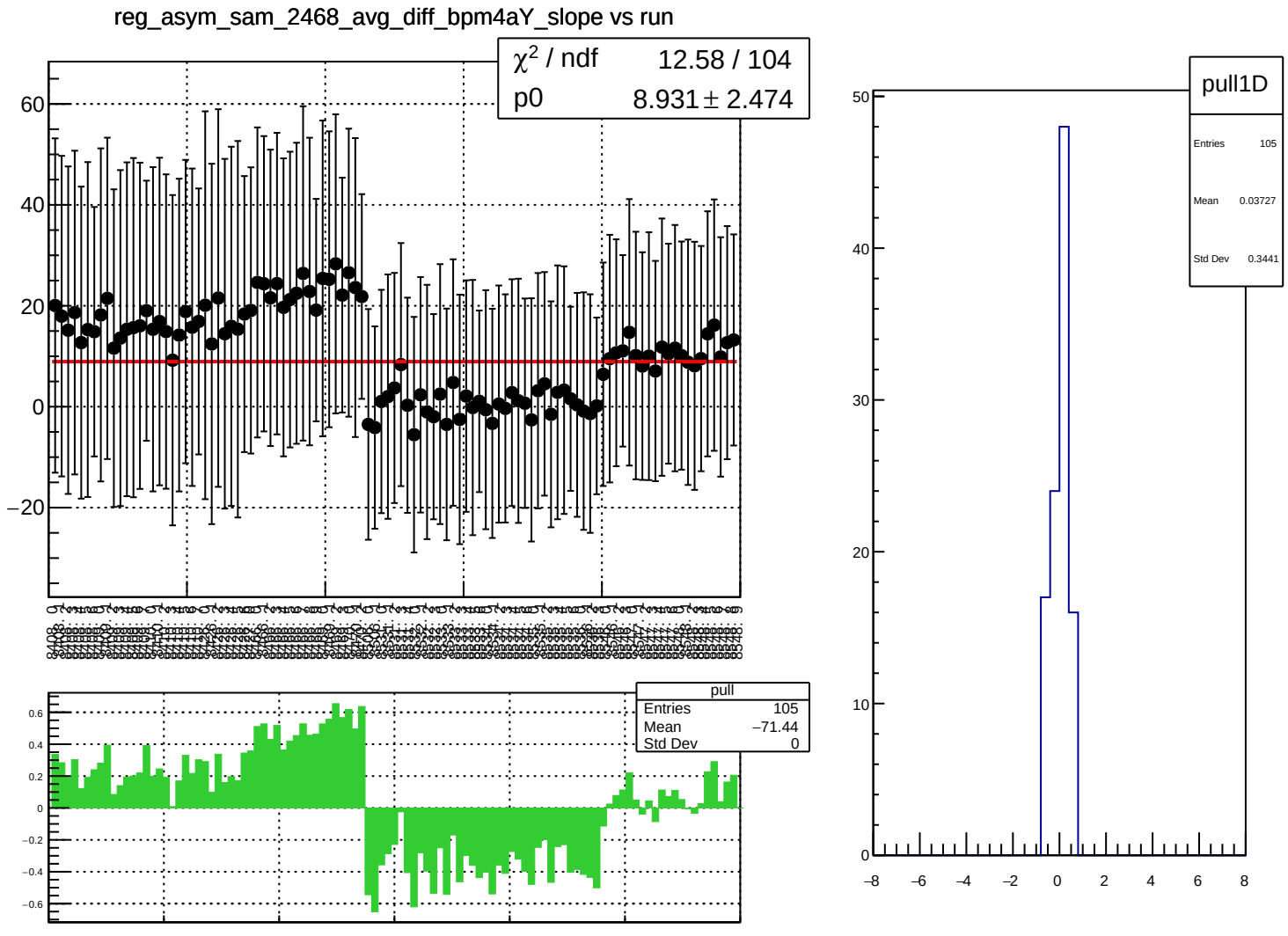

pull1D
Entries 105
Mean −0.005011
Std Dev 0.2957
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

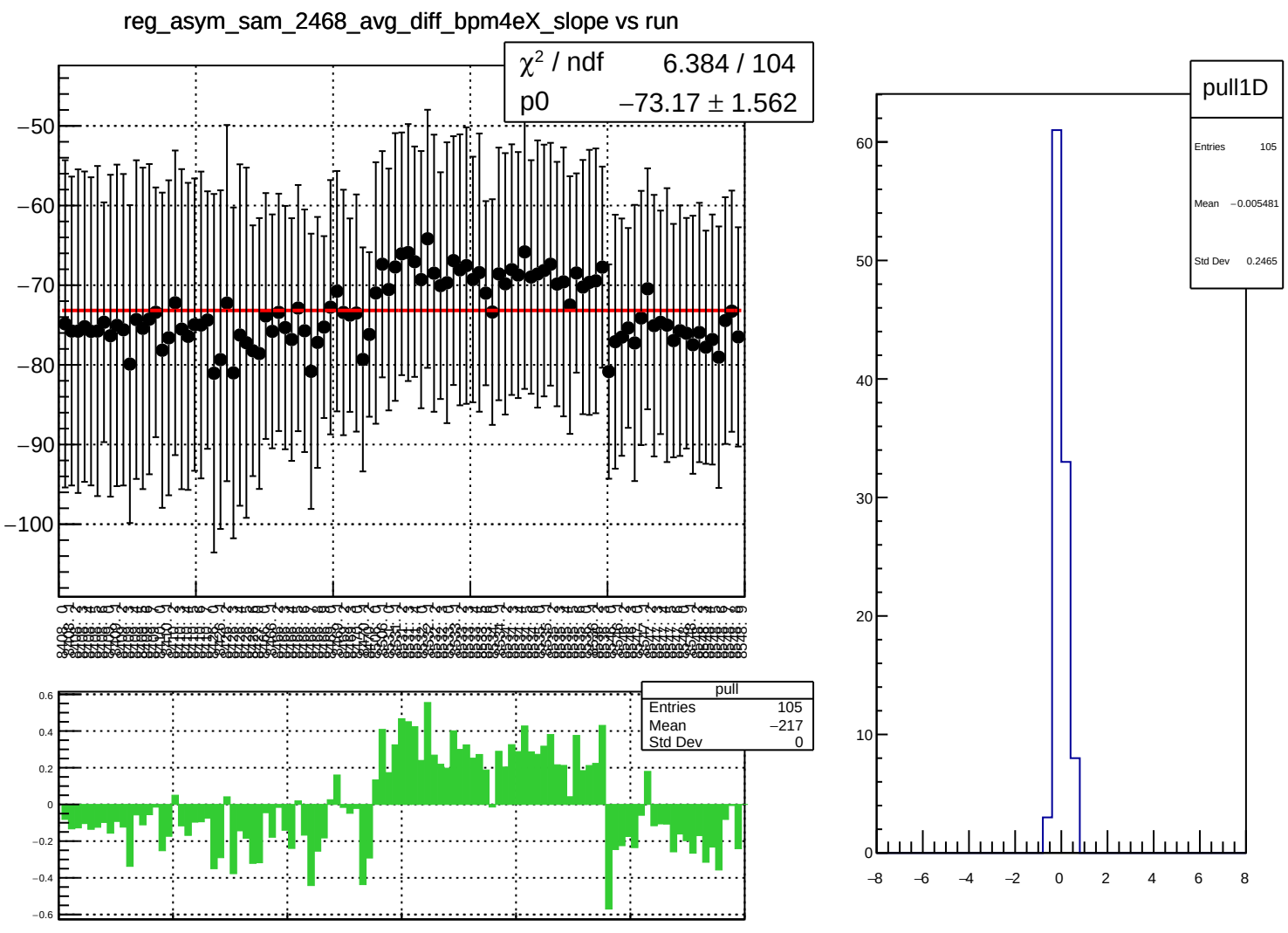

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 27.12 / 104
p0 17.42 ± 1.306
40
30
20
10
0
−10
pull
Entries 105
Mean −90.63
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 105
Mean −0.04861
Std Dev 0.5058
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

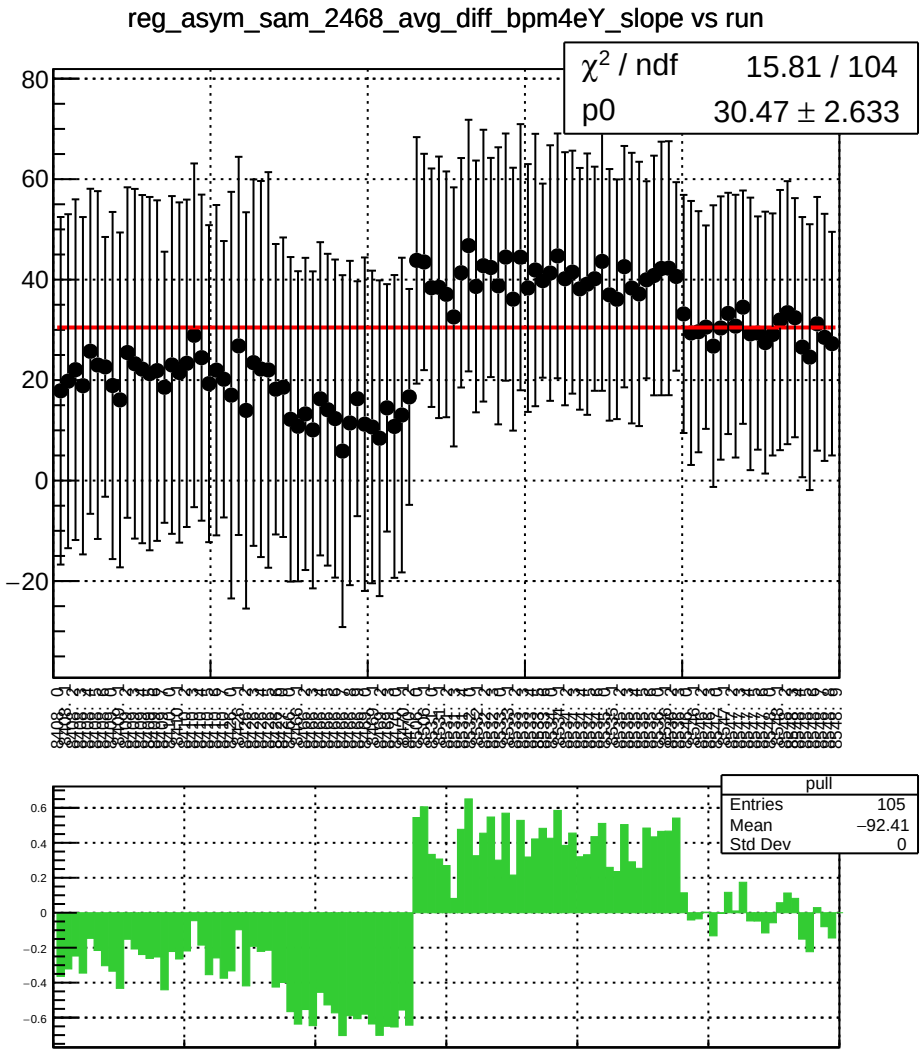

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 6.403 / 104
p0 0.9477 ± 0.07815
pull
Entries 105
Mean −619.1
Std Dev 0

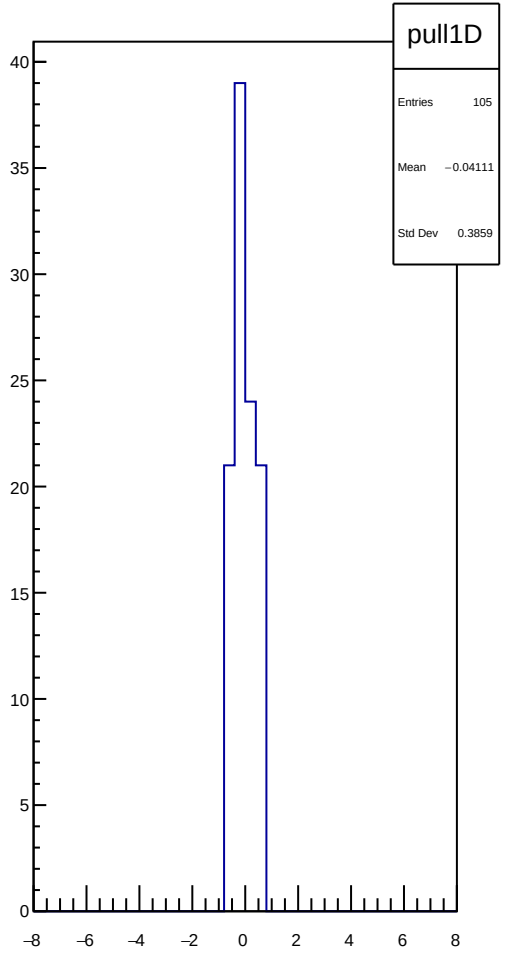

pull1D
Entries 105
Mean 0.005141
Std Dev 0.2469

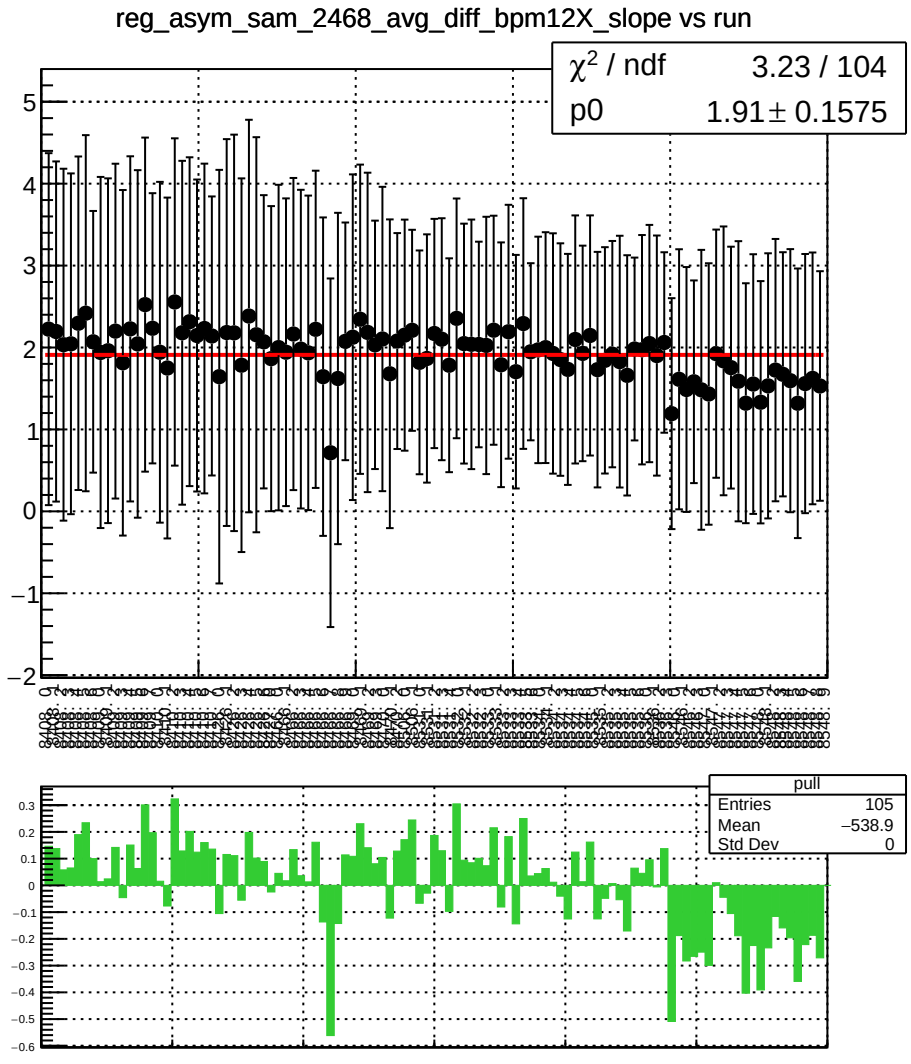

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 11.2 / 104
p0 −2.387 ± 1.426
20
10
0
−10
−20
−30
pull
Entries 105
Mean −1.184
Std Dev 0
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 105
Mean −0.02556
Std Dev 0.3256
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

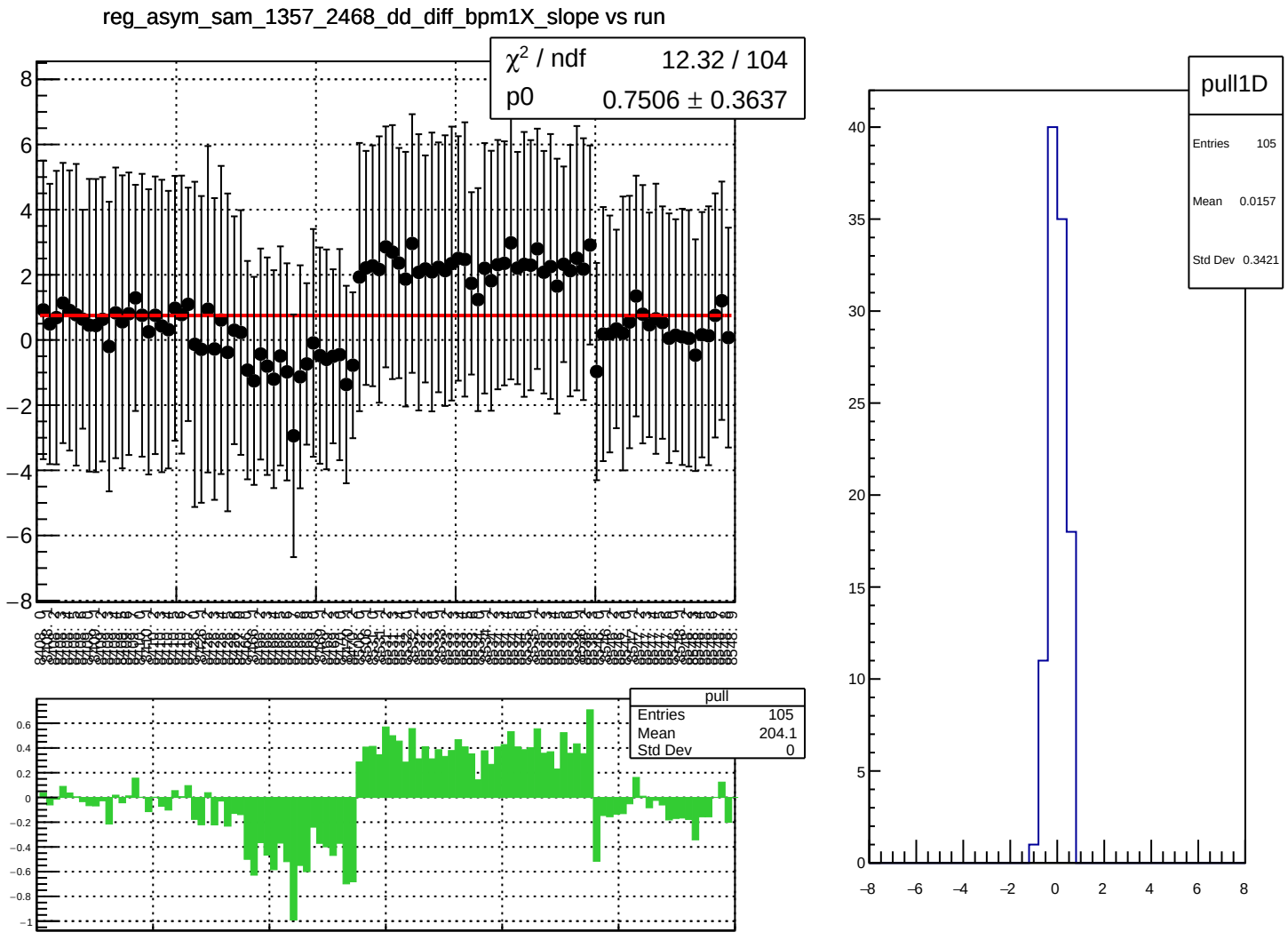

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 12.58 / 104
p0 8.931 ± 2.474
60
40
20
0
−20
pull
Entries 105
Mean −71.44
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 105
Mean 0.03727
Std Dev 0.3441
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

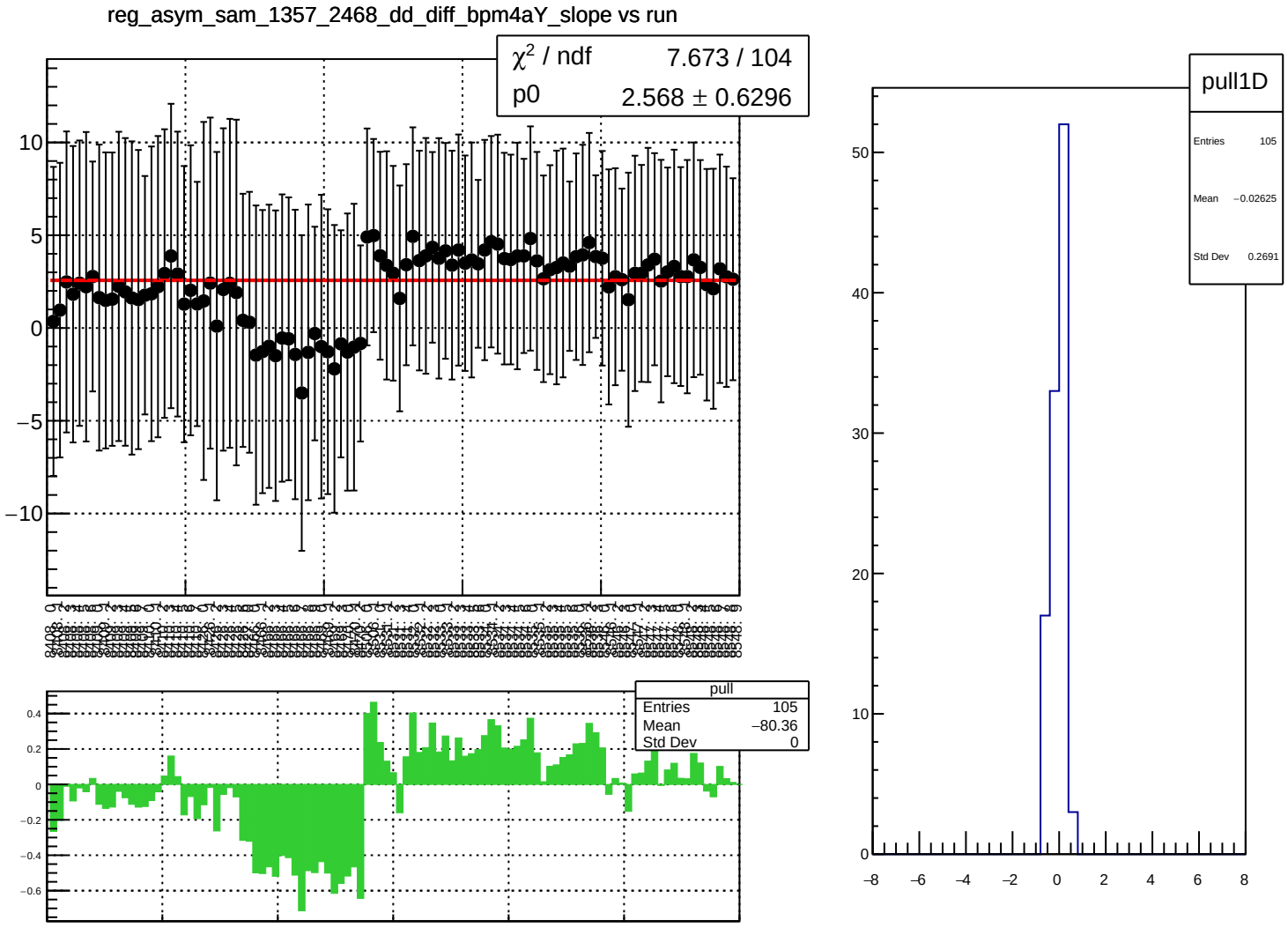

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.384 / 104
p0 −73.17 ± 1.562
−50
−60
−70
−80
−90
−100
pull
Entries 105
Mean −217
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 105
Mean −0.005481
Std Dev 0.2465
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

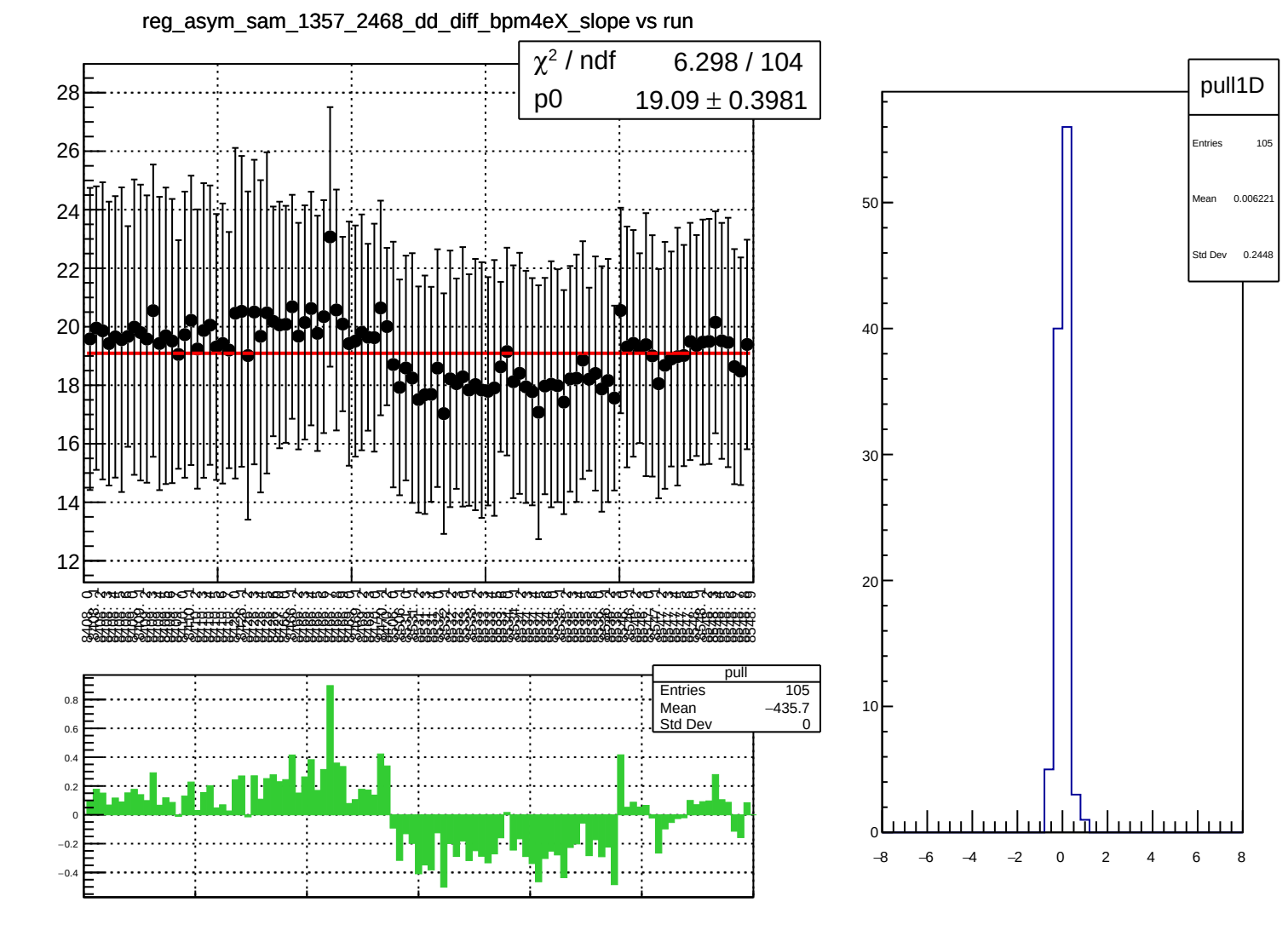

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 15.81 / 104
p0 30.47 ± 2.633
80
60
40
20
0
−20
pull
Entries 105
Mean −92.41
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

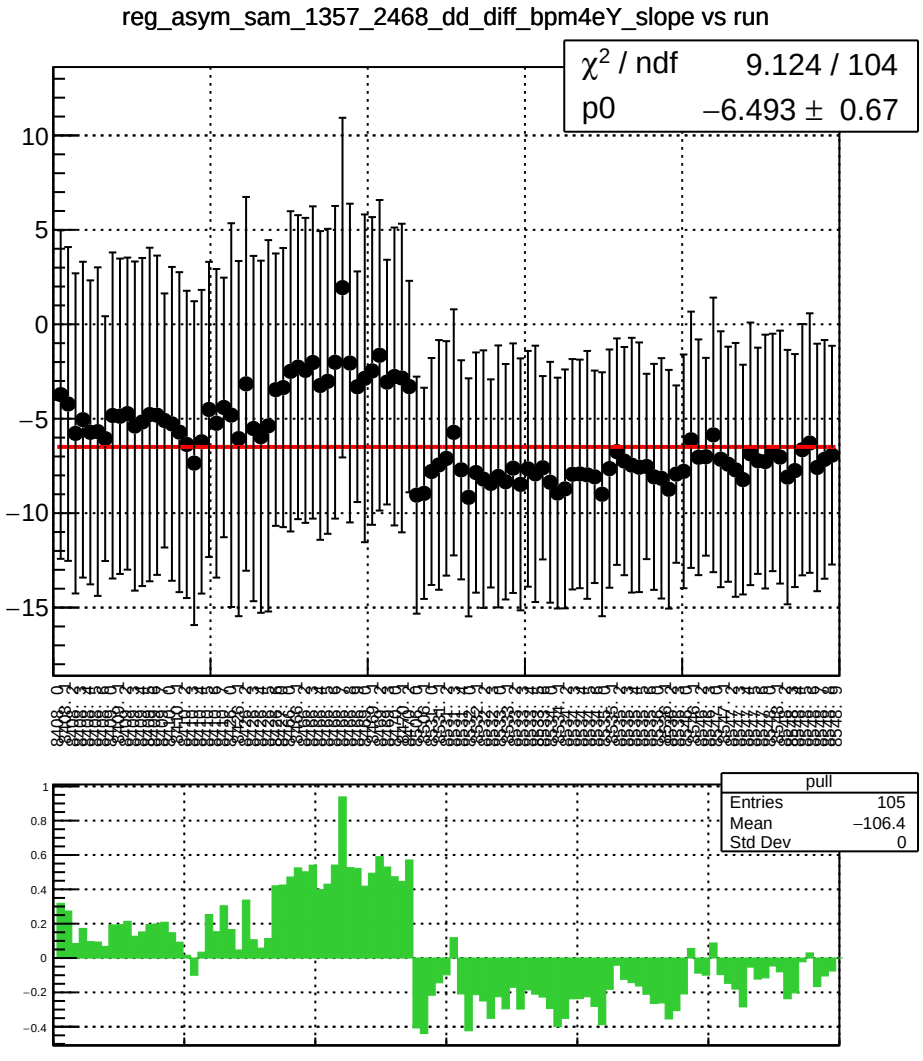

pull1D
Entries 105
Mean −0.04111
Std Dev 0.3859
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

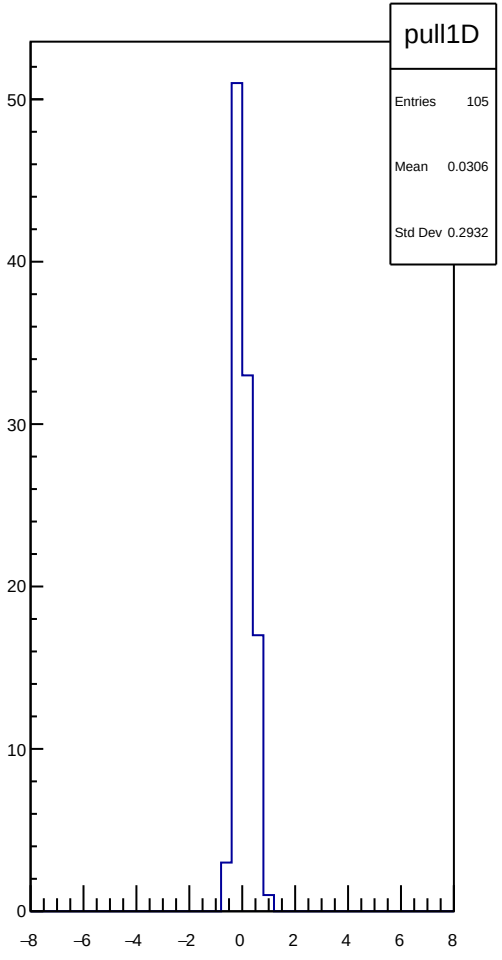

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 3.23 / 104
p0 1.91 ± 0.1575
pull
Entries 105
Mean −538.9
Std Dev 0
pull1D
Entries 105
Mean 0.005122
Std Dev 0.1753

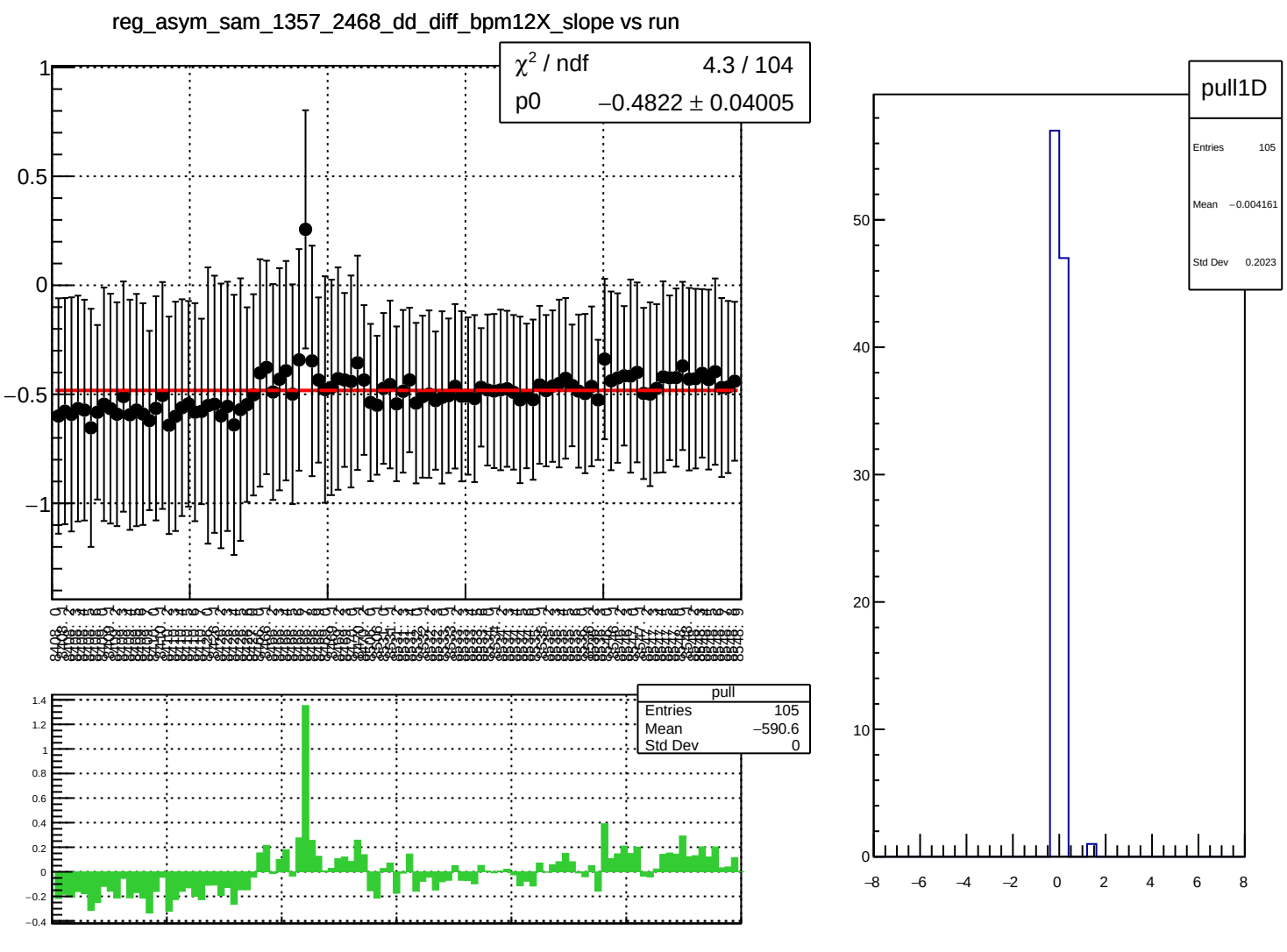

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 12.32 / 104
p0 0.7506 ± 0.3637
pull
Entries 105
Mean 204.1
Std Dev 0
pull1D
Entries 105
Mean 0.0157
Std Dev 0.3421

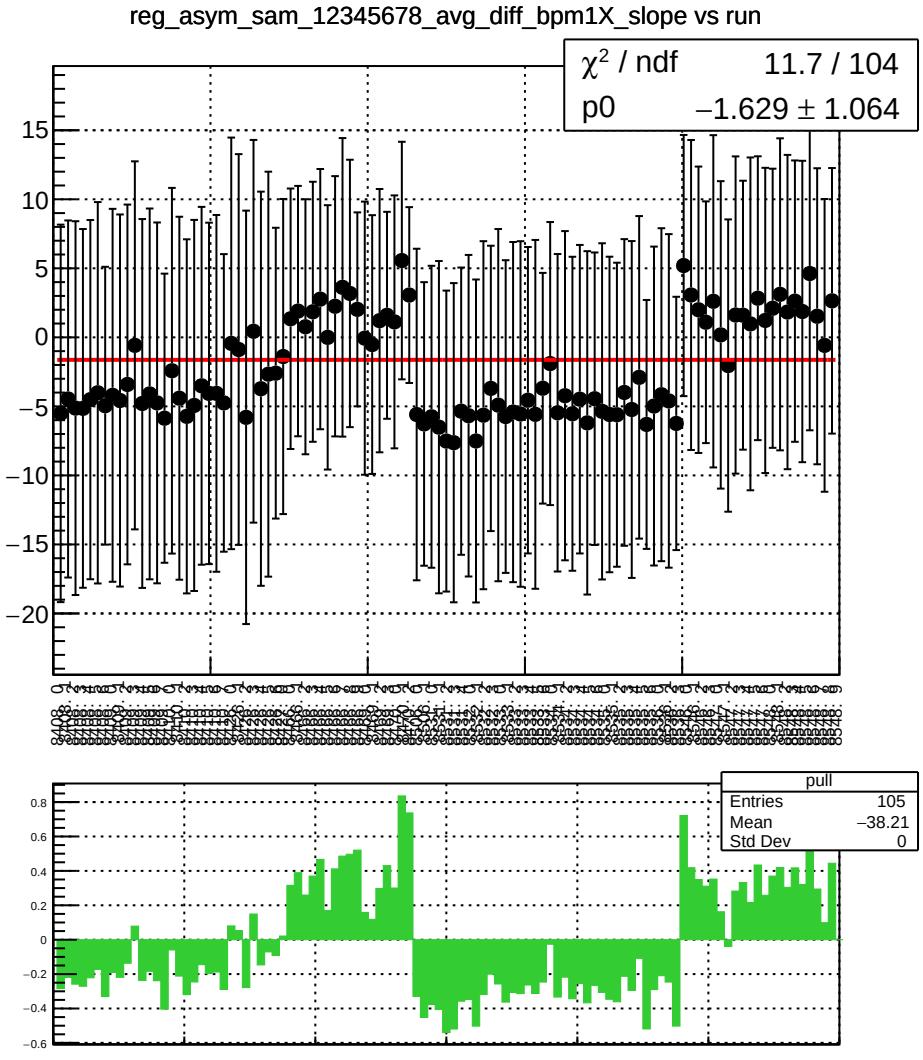

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.673 / 104
p0 2.568 ± 0.6296
10
5
0
−5
−10
pull
Entries 105
Mean −80.36
Std Dev 0
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 105
Mean −0.02625
Std Dev 0.2691
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

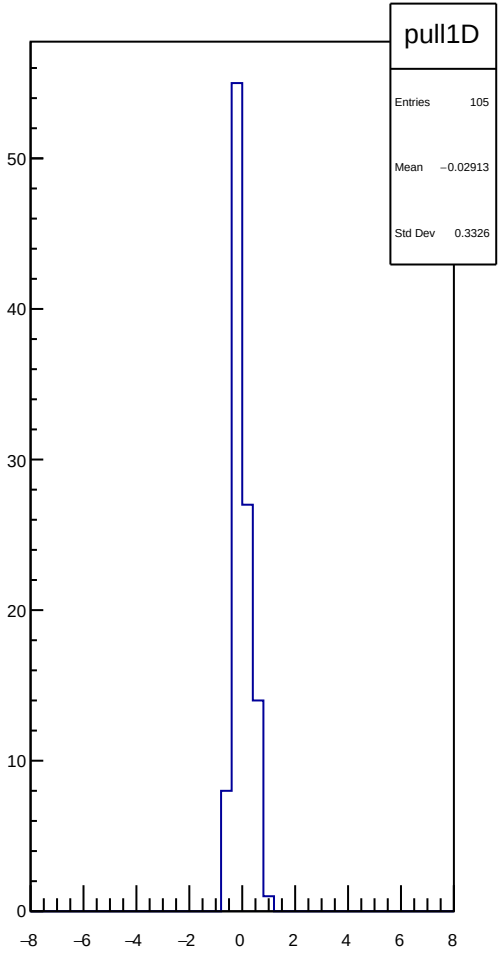

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.298 / 104
p0 19.09 ± 0.3981
pull
Entries 105
Mean −435.7
Std Dev 0
pull1D
Entries 105
Mean 0.006221
Std Dev 0.2448

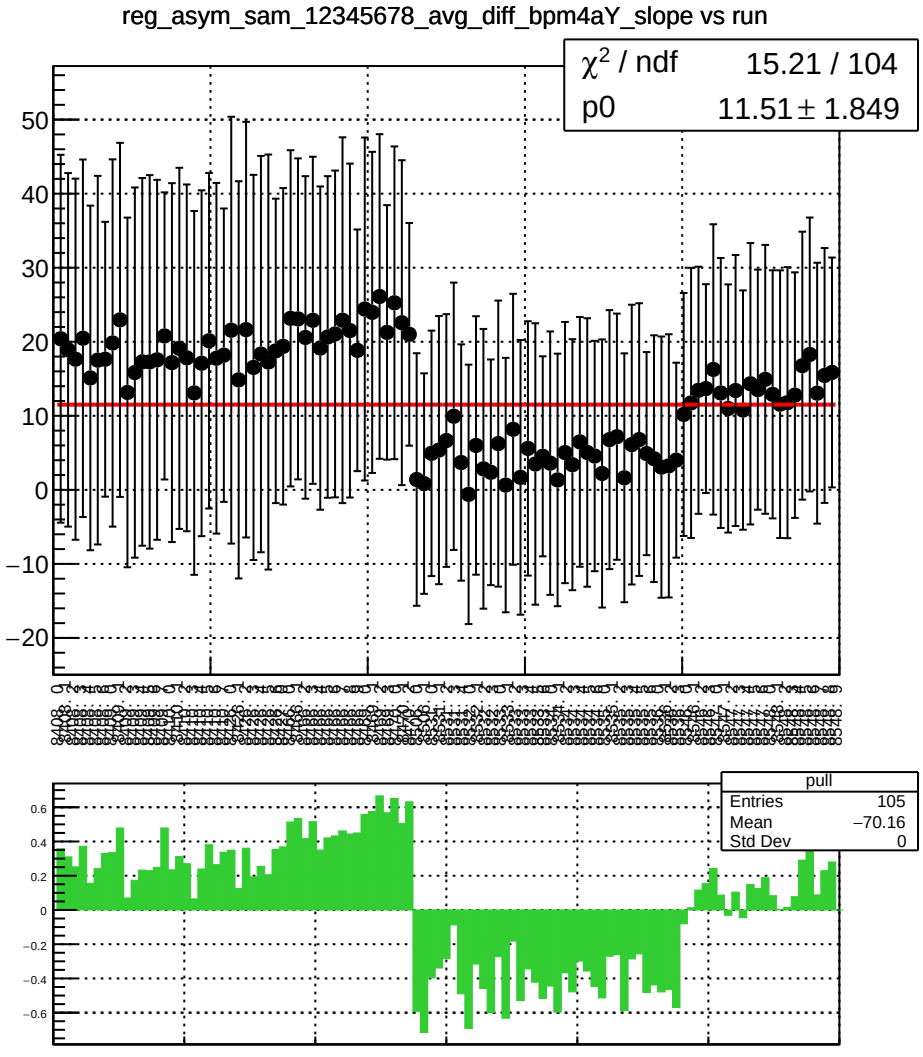

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.124 / 104
p0 −6.493 ± 0.67
10
5
0
−5
−10
−15
pull
Entries 105
Mean −106.4
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4

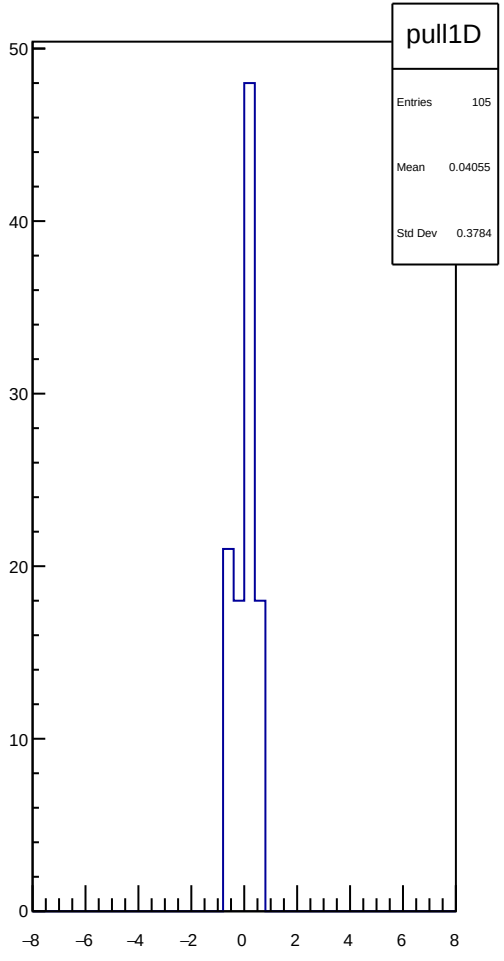

pull1D
Entries 105
Mean 0.0306
Std Dev 0.2932
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

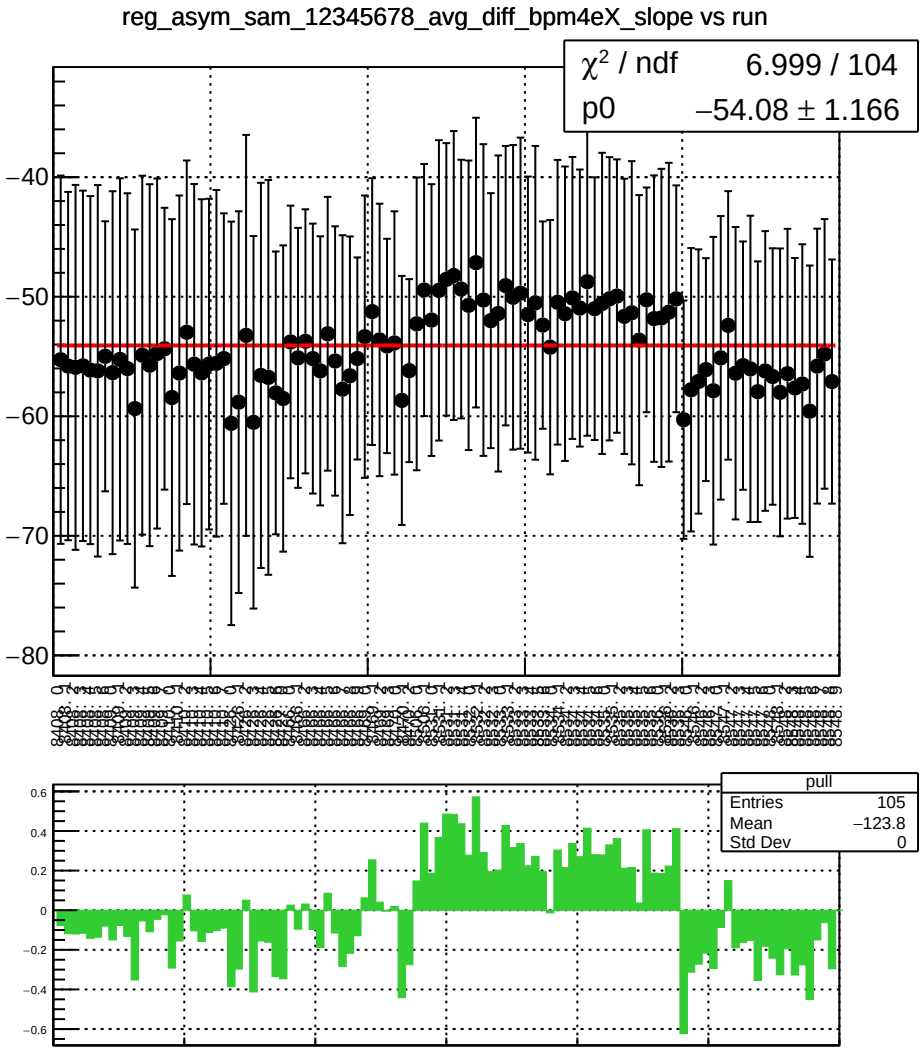

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 4.3 / 104
p0 −0.4822 ± 0.04005
pull
Entries 105
Mean −590.6
Std Dev 0
pull1D
Entries 105
Mean −0.004161
Std Dev 0.2023

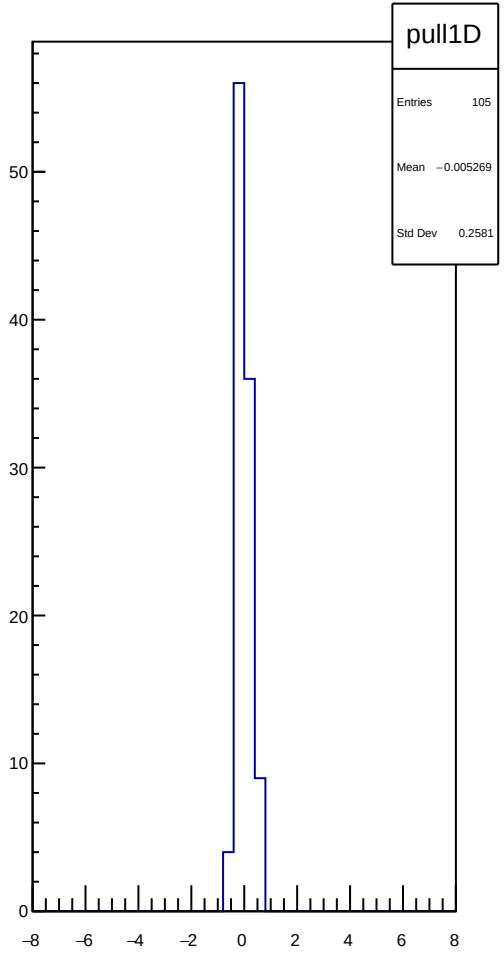

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 11.7 / 104
p0 −1.629 ± 1.064
pull
Entries 105
Mean −38.21
Std Dev 0

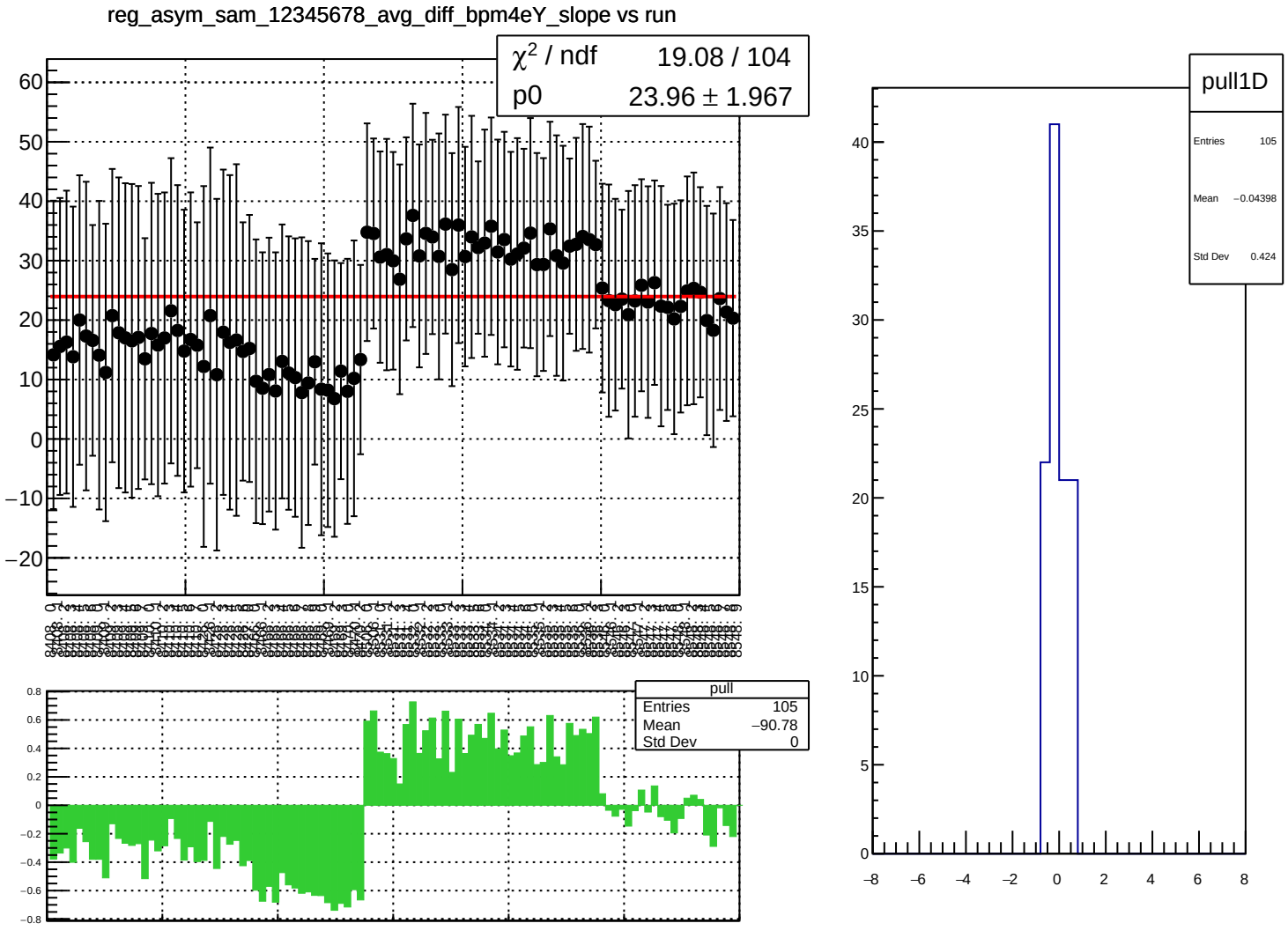

pull1D
Entries 105
Mean −0.02913
Std Dev 0.3326

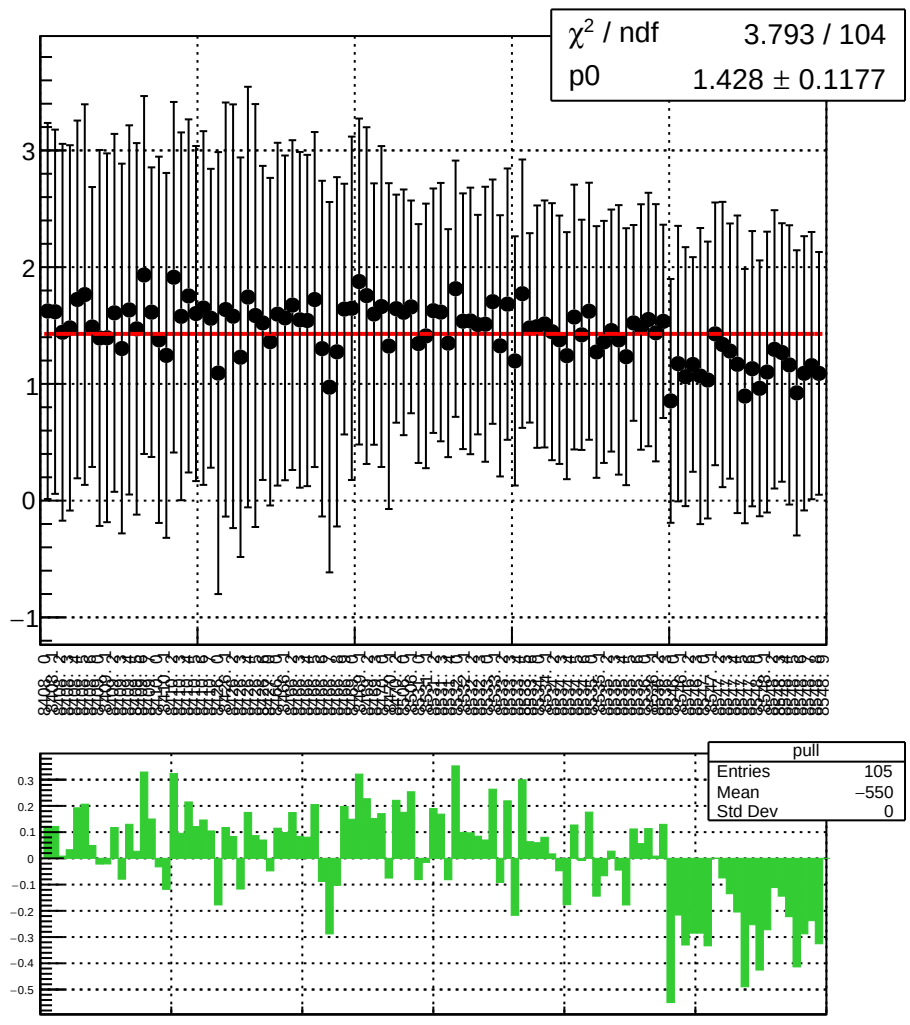

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 15.21 / 104
p0 11.51 ± 1.849
50
40
30
20
10
0
−10
−20
pull
Entries 105
Mean −70.16
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

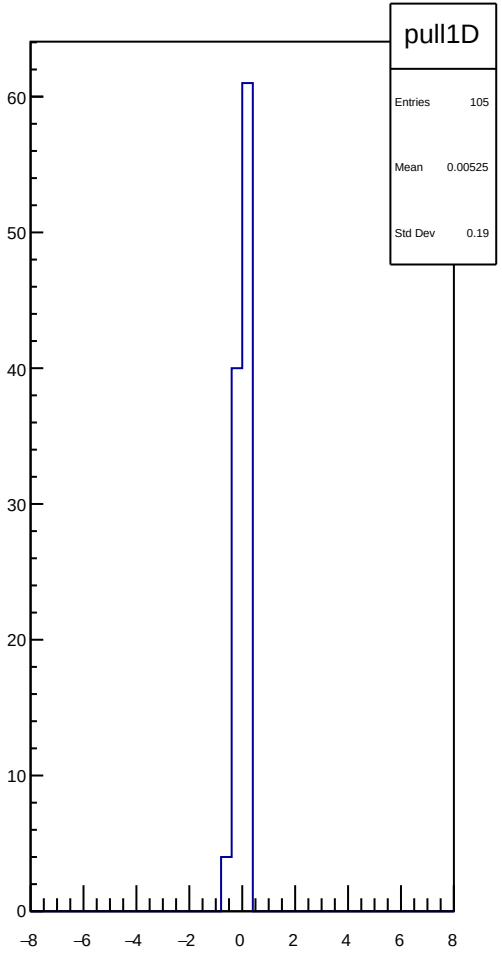

pull1D
Entries 105
Mean 0.04055
Std Dev 0.3784
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

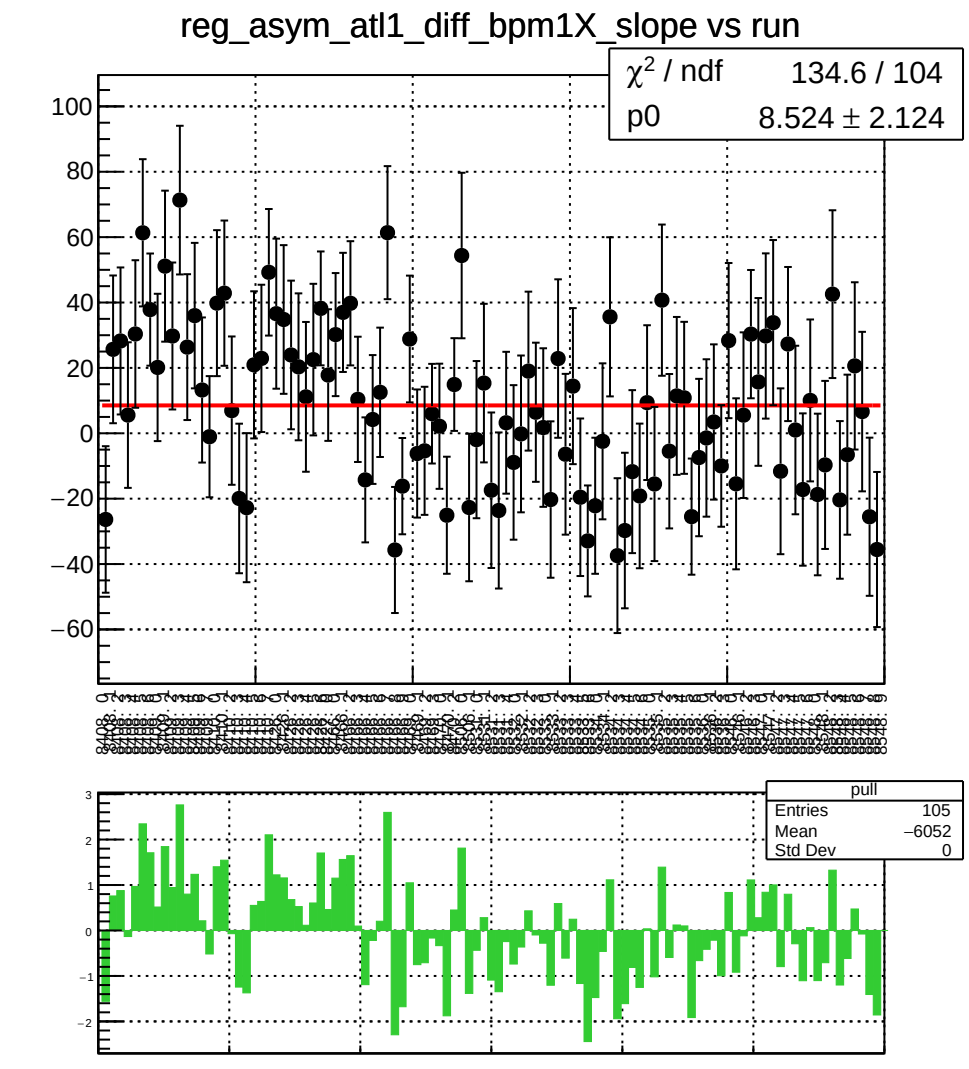

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 6.999 / 104
p0 −54.08 ± 1.166
−40
−50
−60
−70
−80
pull
Entries 105
Mean −123.8
Std Dev 0
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

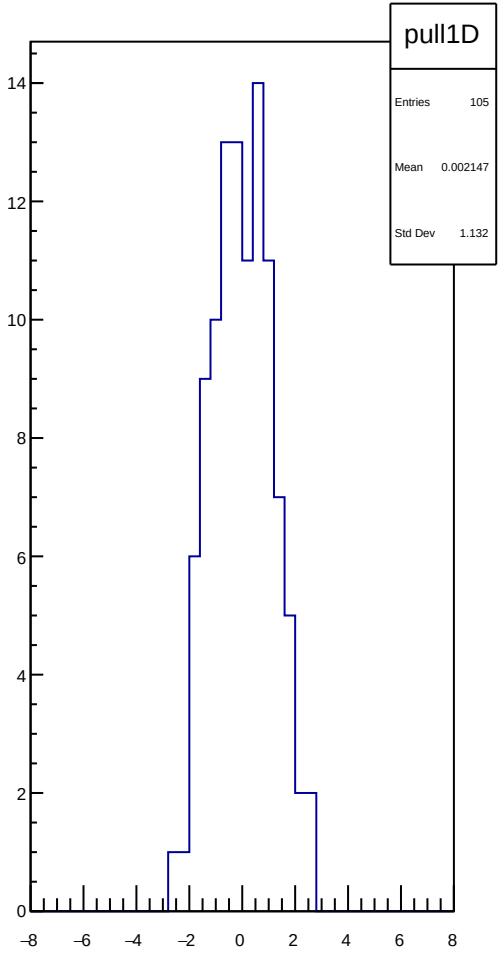

pull1D
Entries 105
Mean −0.005269
Std Dev 0.2581
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

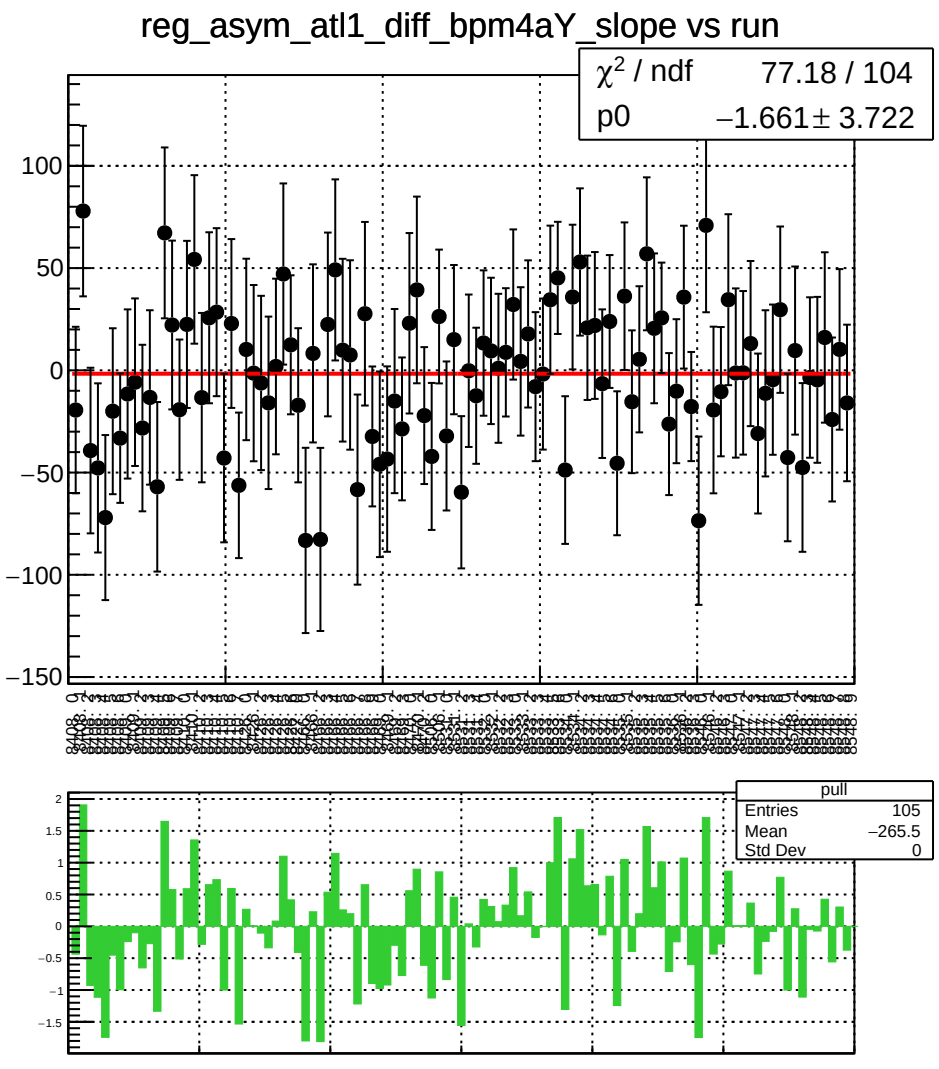

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 19.08 / 104
p0 23.96 ± 1.967
pull
Entries 105
Mean −90.78
Std Dev 0
pull1D
Entries 105
Mean −0.04398
Std Dev 0.424

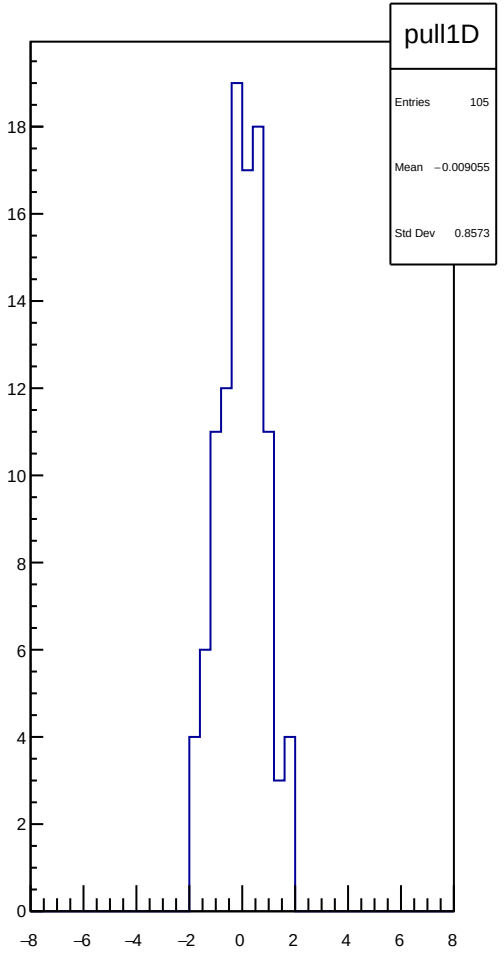

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 3.793 / 104
p0 1.428 ± 0.1177
pull
Entries 105
Mean −550
Std Dev 0

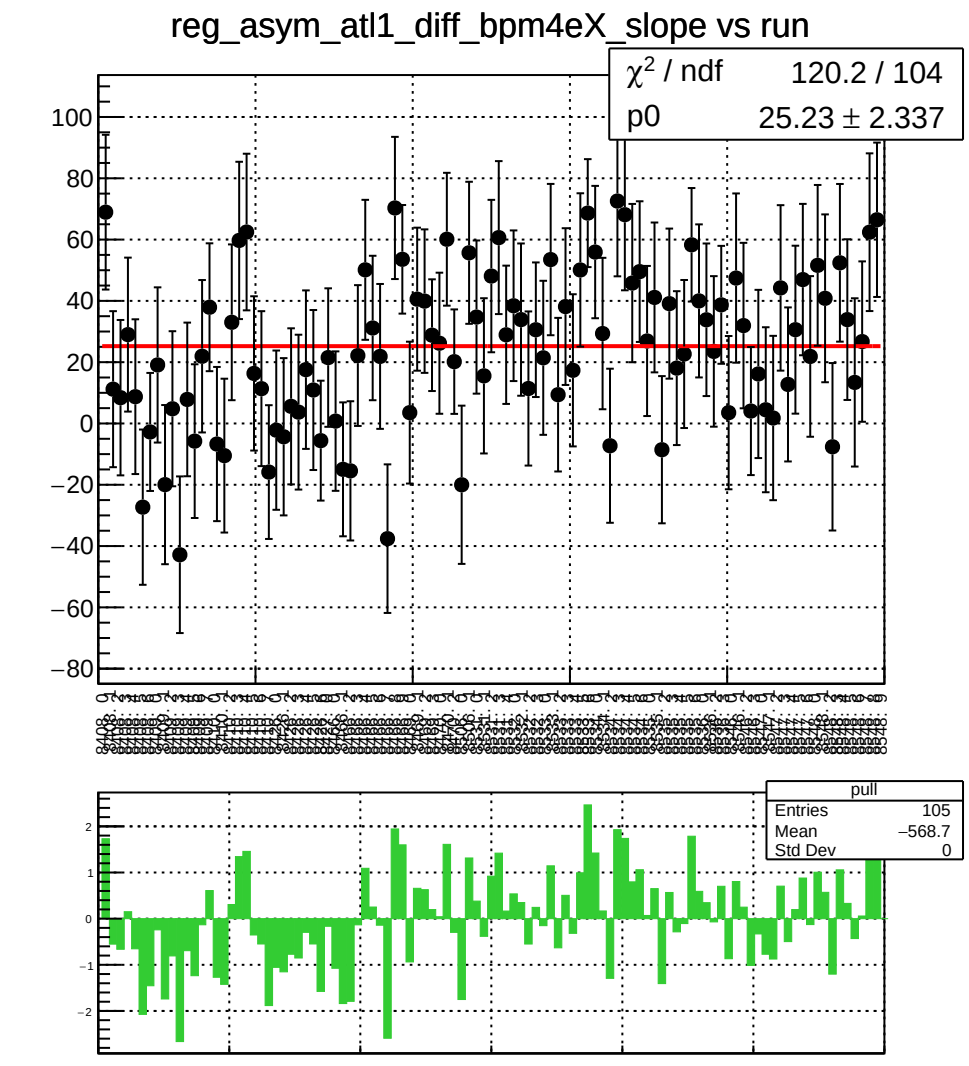

pull1D
Entries 105
Mean 0.00525
Std Dev 0.19

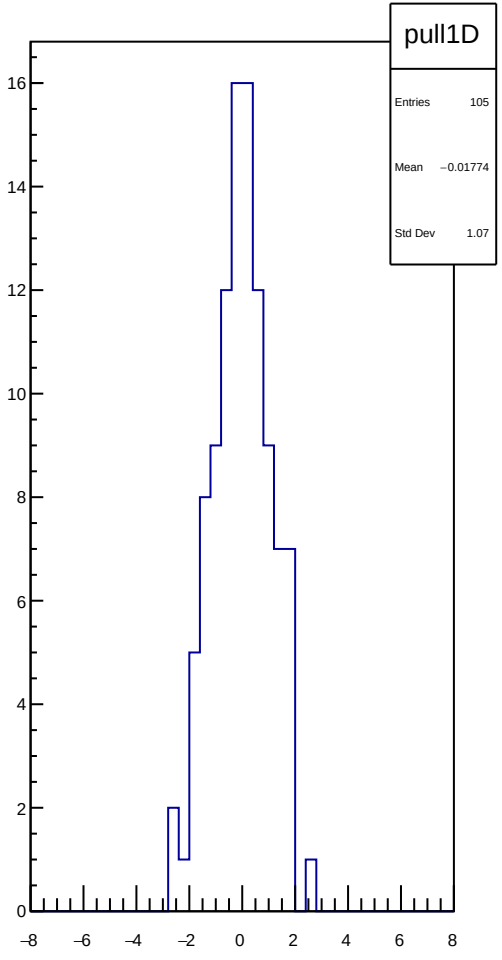

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 134.6 / 104
p0 8.524 ± 2.124
pull
Entries 105
Mean −6052
Std Dev 0

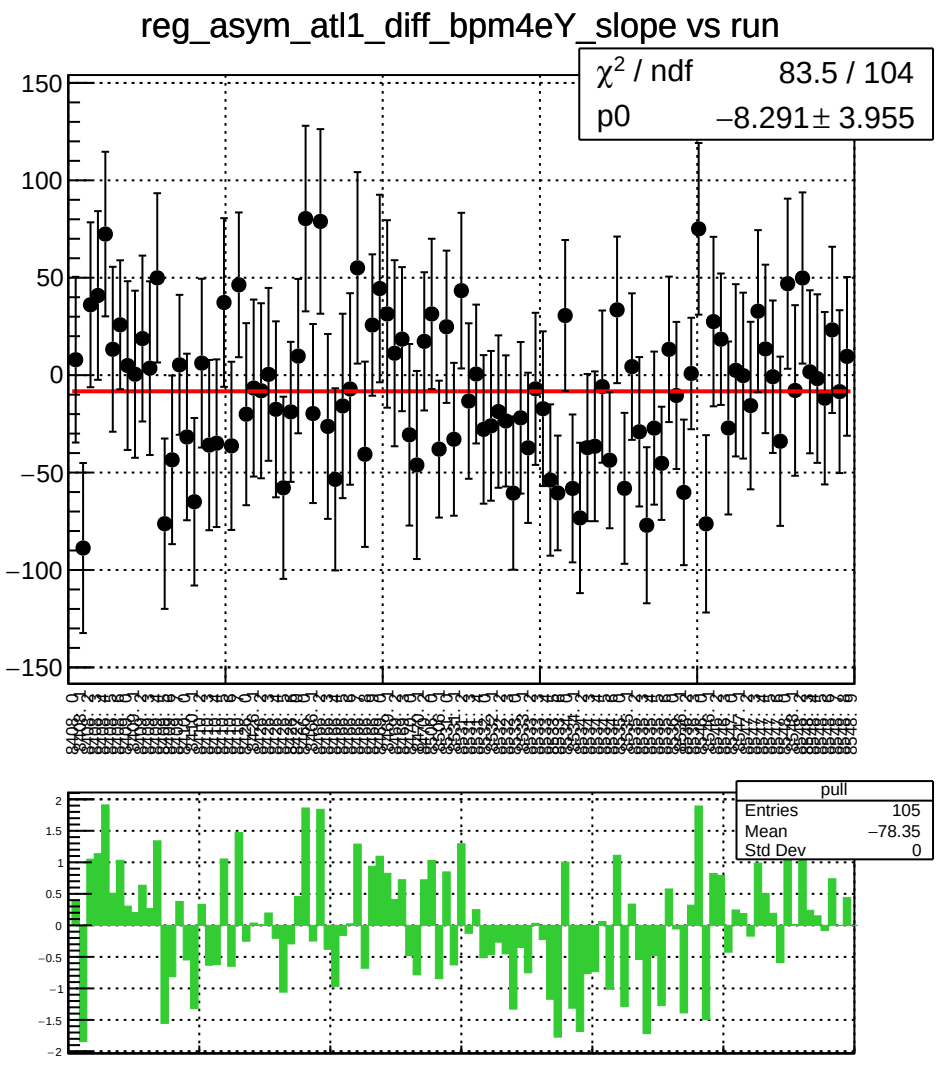

pull1D
Entries 105
Mean 0.002147
Std Dev 1.132

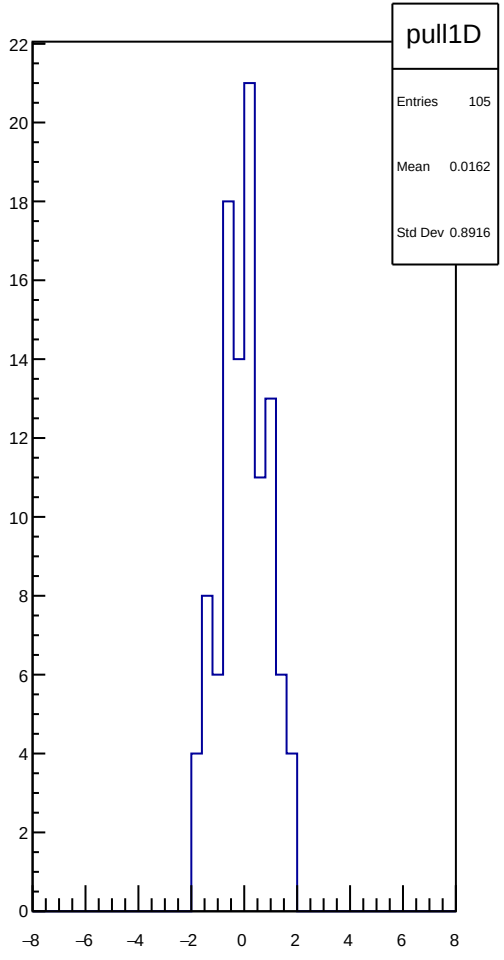

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 77.18 / 104
p0 −1.661 ± 3.722
100
50
0
−50
−100
−150
pull
Entries 105
Mean −265.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

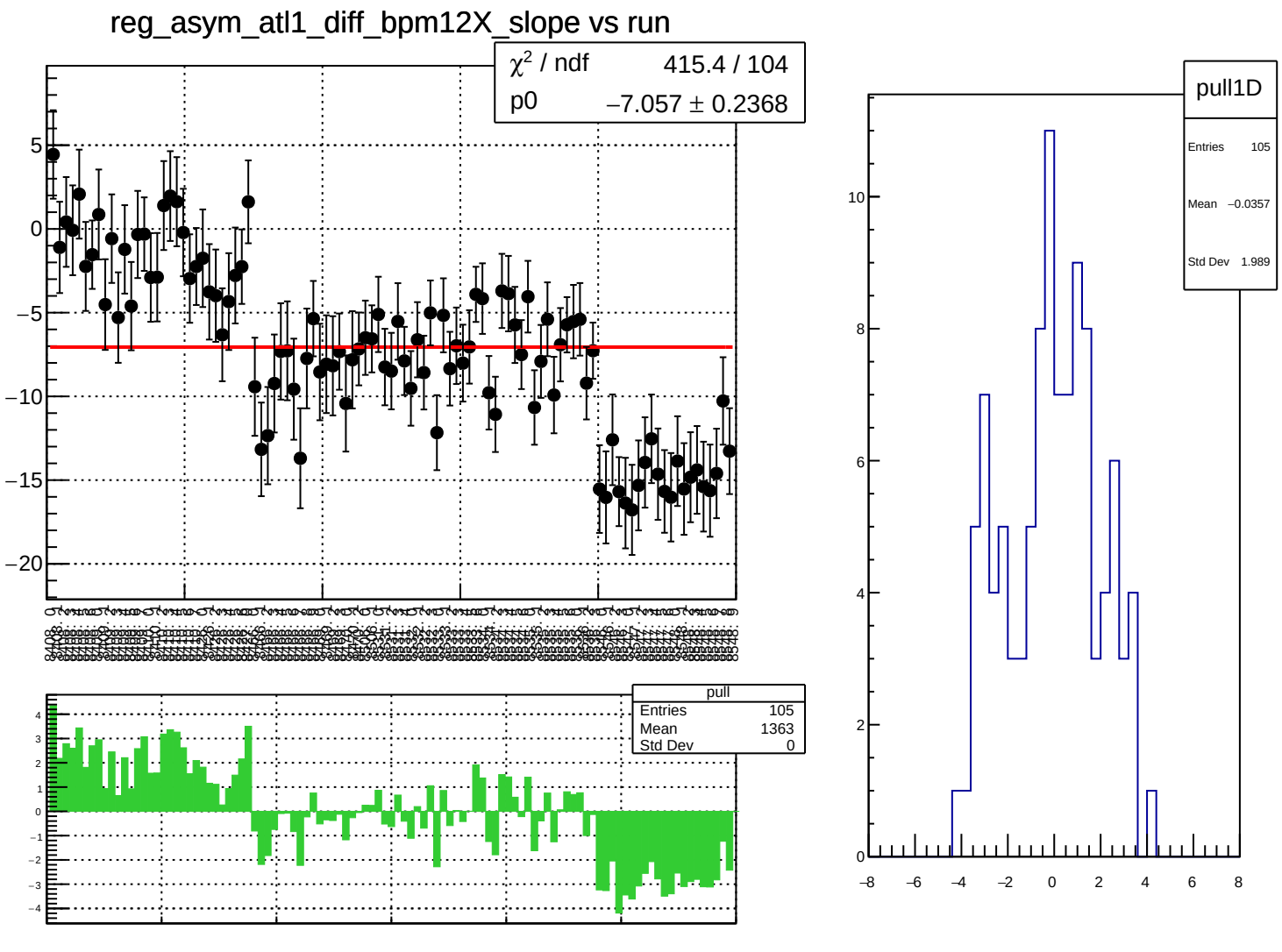

pull1D
Entries 105
Mean −0.009055
Std Dev 0.8573
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

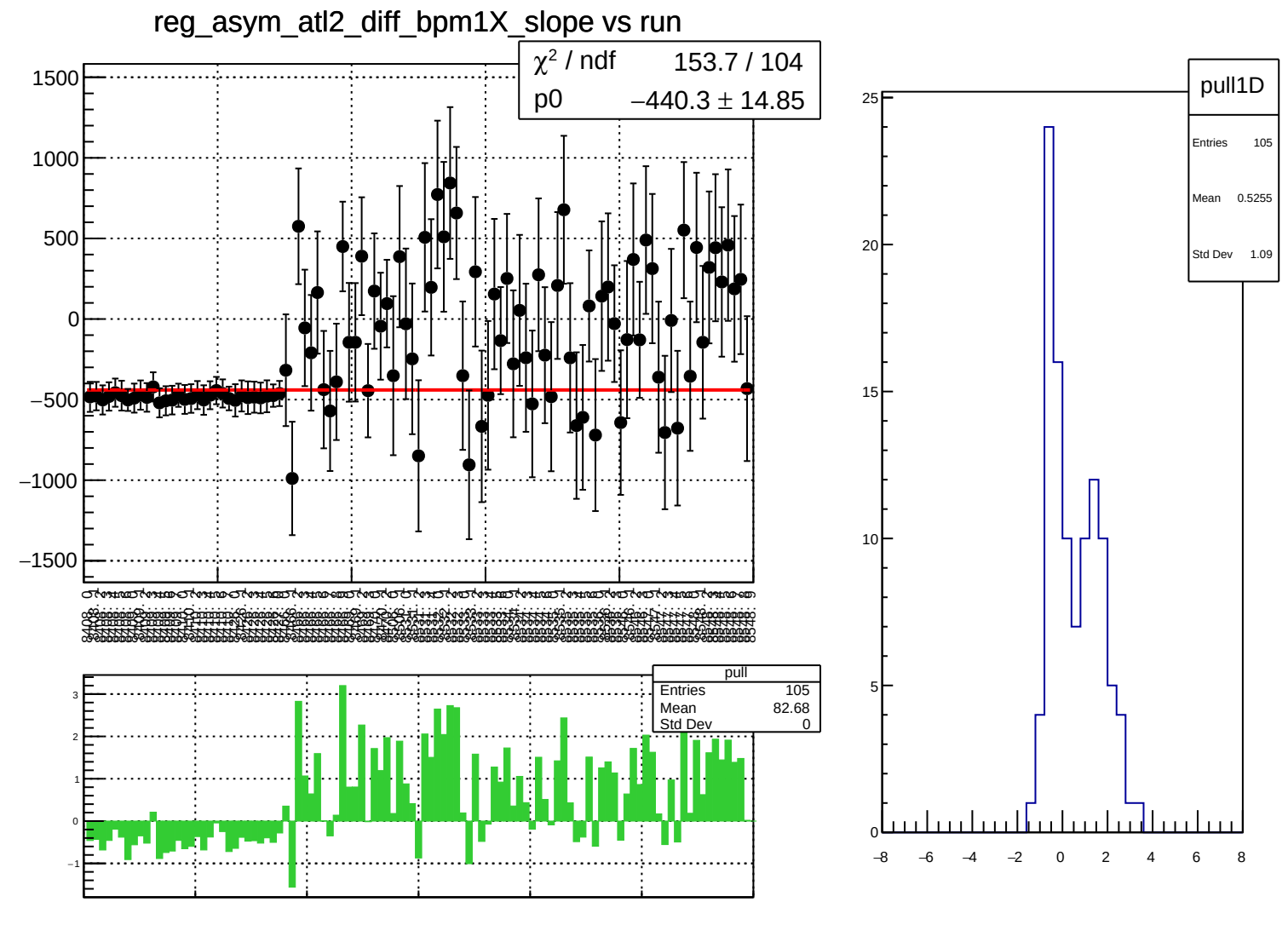

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 120.2 / 104
p0 25.23 ± 2.337
pull
Entries 105
Mean −568.7
Std Dev 0

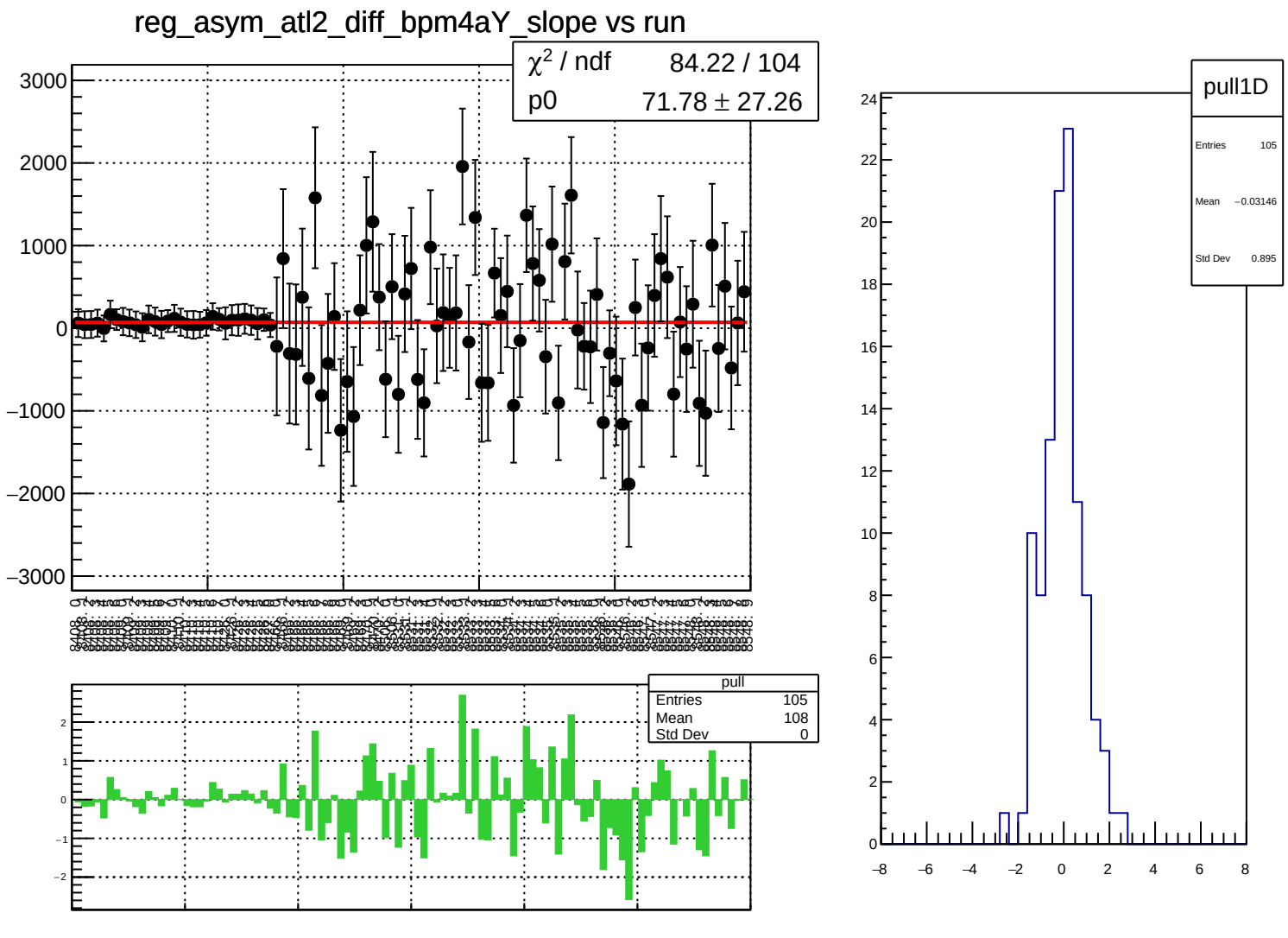

pull1D
Entries 105
Mean −0.01774
Std Dev 1.07

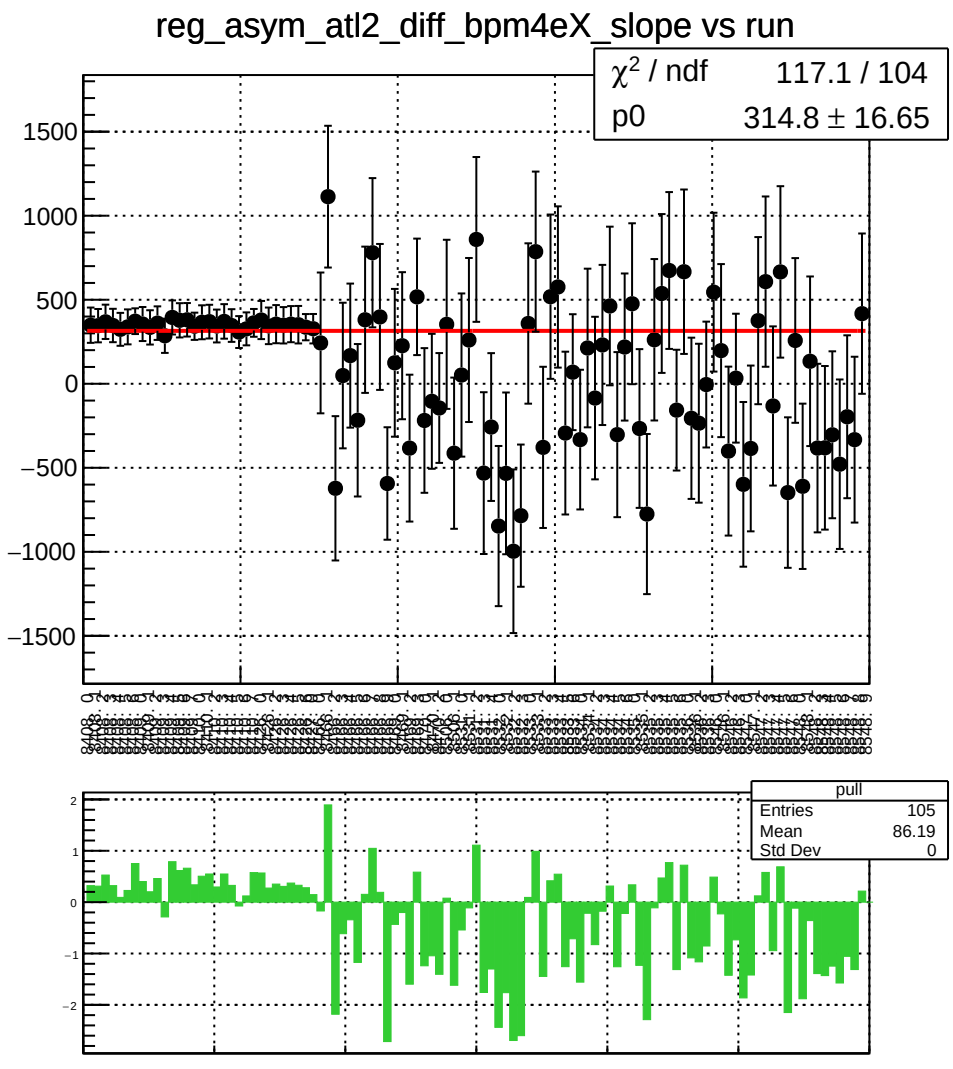

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 83.5 / 104
p0 −8.291 ± 3.955
150
100
50
0
−50
−100
−150
pull
Entries 105
Mean −78.35
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

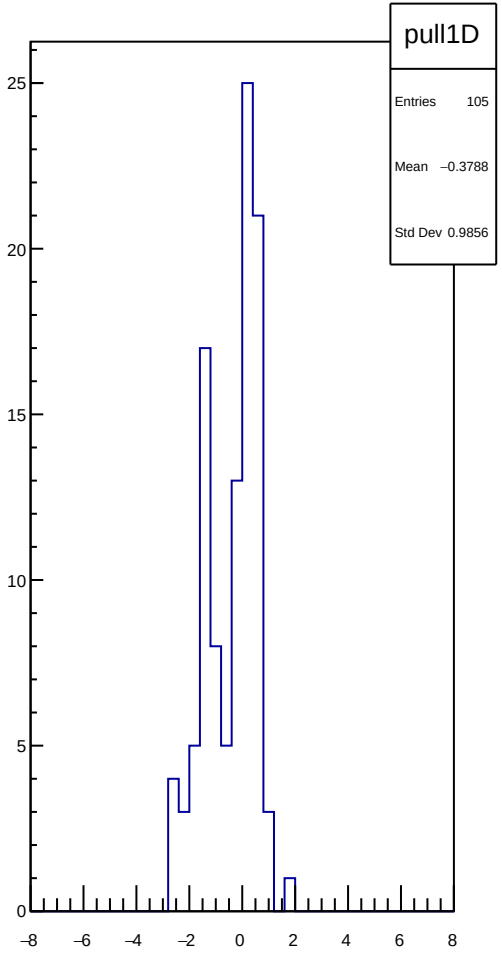

pull1D
Entries 105
Mean 0.0162
Std Dev 0.8916
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

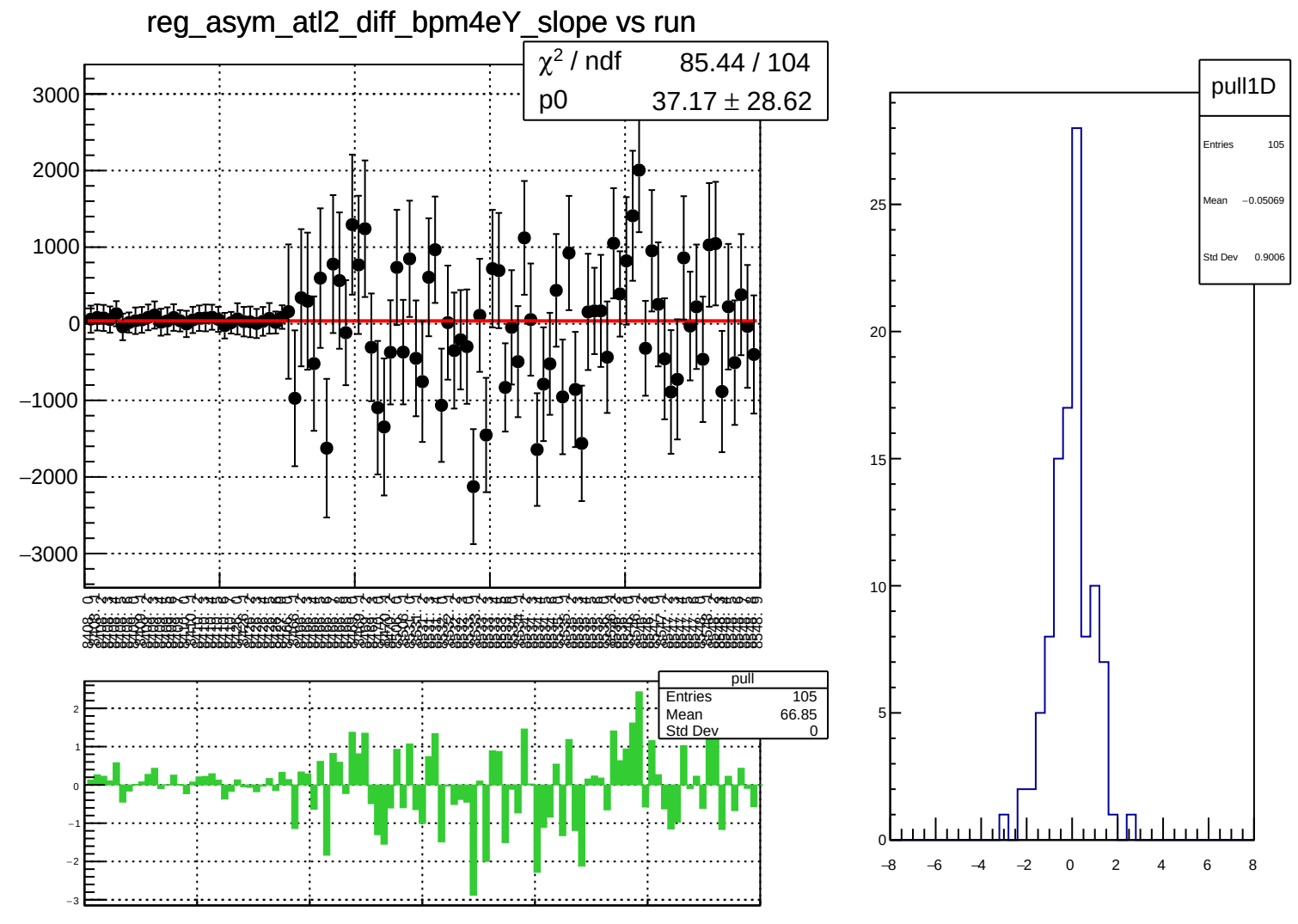

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 415.4 / 104
p0 −7.057 ± 0.2368
pull
Entries 105
Mean 1363
Std Dev 0
pull1D
Entries 105
Mean −0.0357
Std Dev 1.989

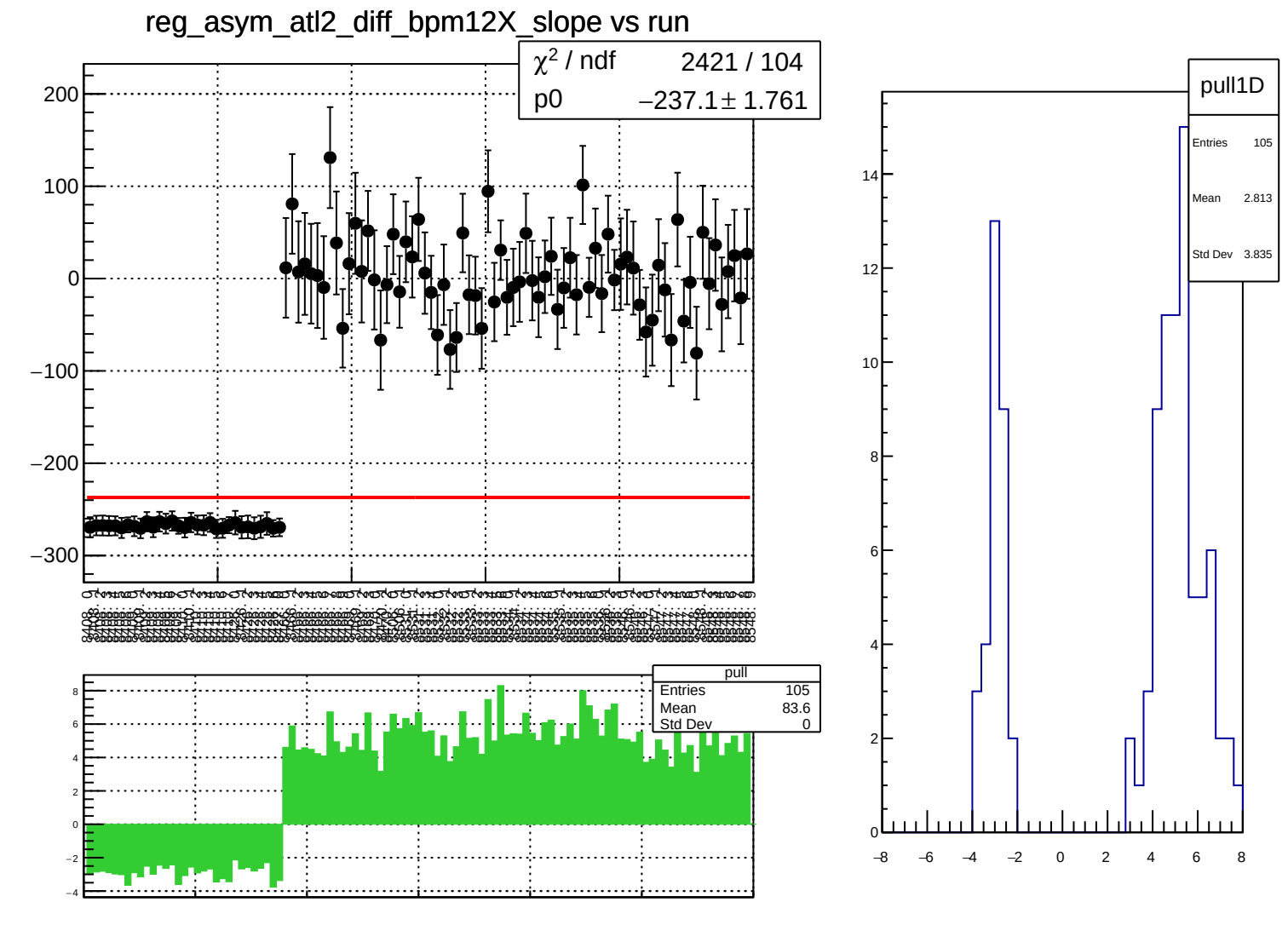

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 153.7 / 104
p0 −440.3 ± 14.85
1500
1000
500
0
−500
−1000
−1500
pull
Entries 105
Mean 82.68
Std Dev 0
3
2
1
0
−1
pull1D
Entries 105
Mean 0.5255
Std Dev 1.09
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

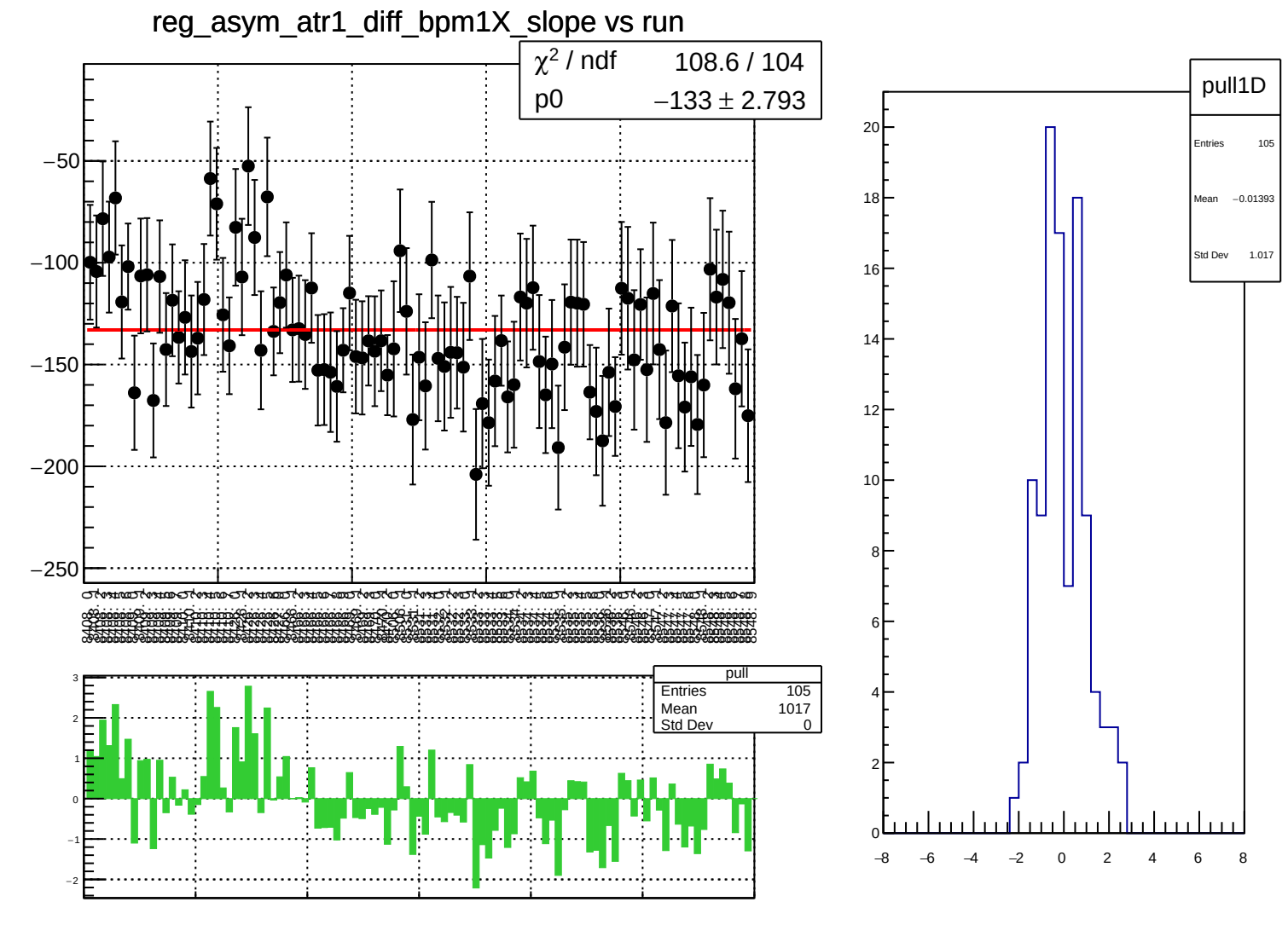

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 84.22 / 104
p0 71.78 ± 27.26
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 105
Mean 108
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.03146
Std Dev 0.895
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

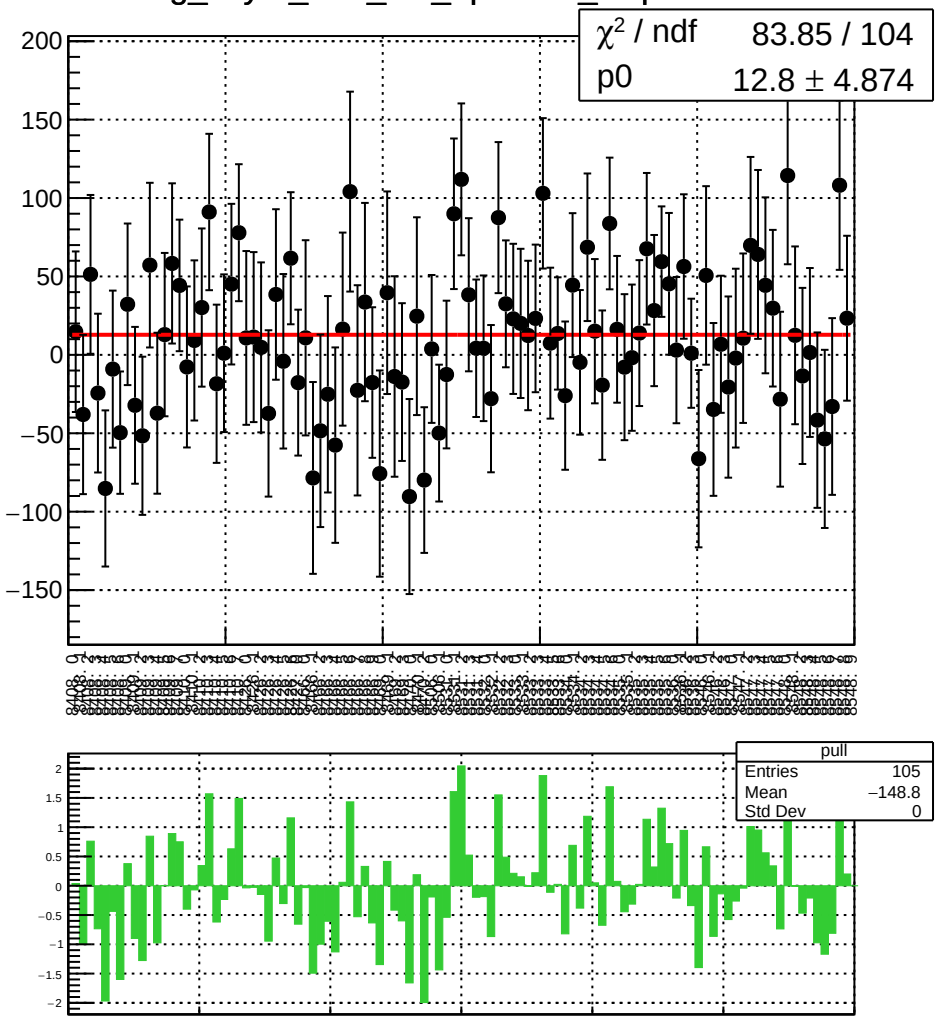

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 117.1 / 104
p0 314.8 ± 16.65
1500
1000
500
0
−500
−1000
−1500
pull
Entries 105
Mean 86.19
Std Dev 0
2
1
0
−1
−2

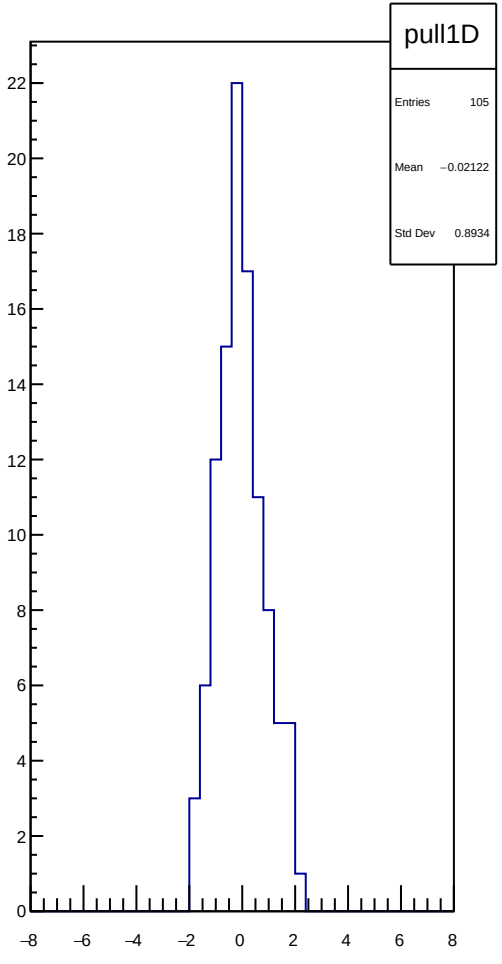

pull1D
Entries 105
Mean −0.3788
Std Dev 0.9856
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

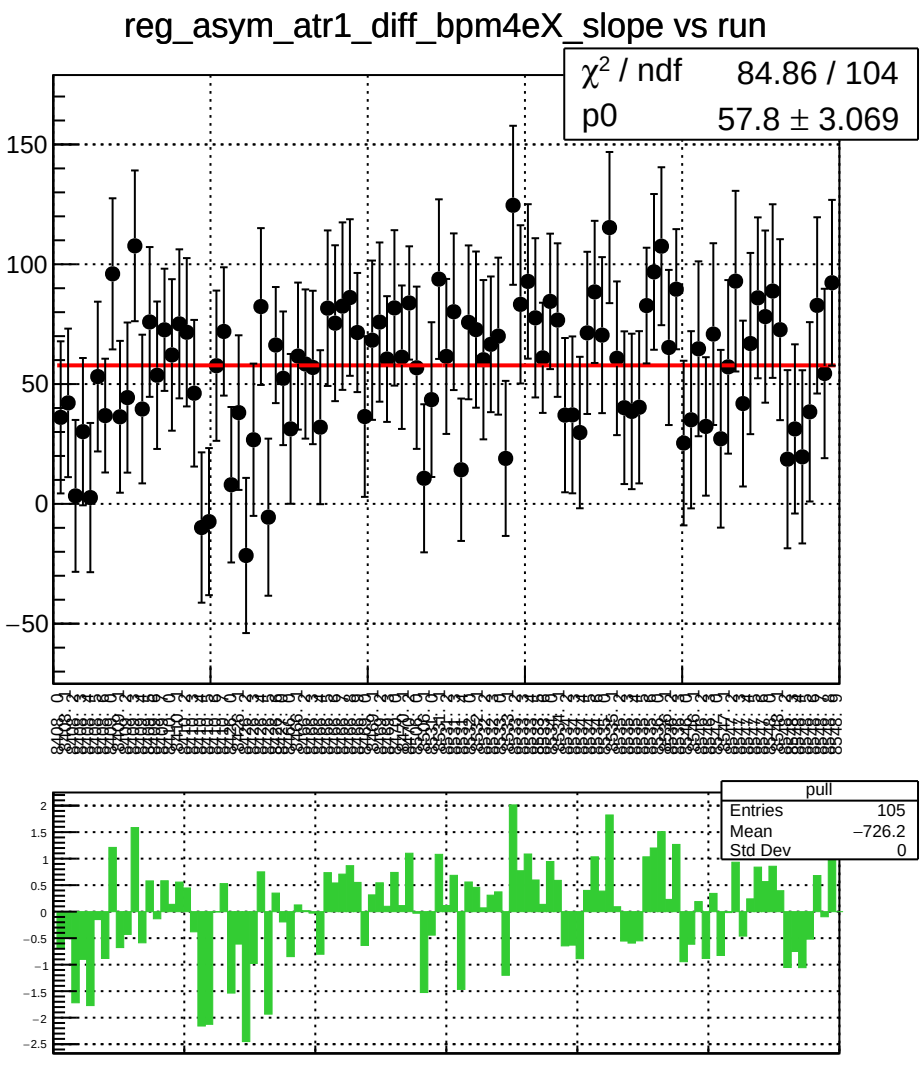

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 85.44 / 104
p0 37.17 ± 28.62
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 105
Mean 66.85
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 105
Mean −0.05069
Std Dev 0.9006
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

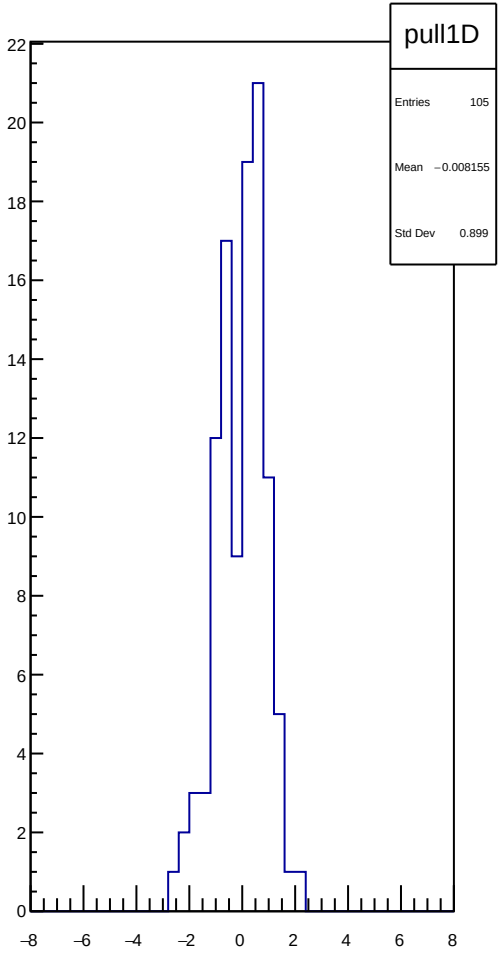

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 2421 / 104
p0 −237.1 ± 1.761
200
100
0
−100
−200
−300
pull
Entries 105
Mean 83.6
Std Dev 0
8
6
4
2
0
−2
−4
pull1D
Entries 105
Mean 2.813
Std Dev 3.835
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

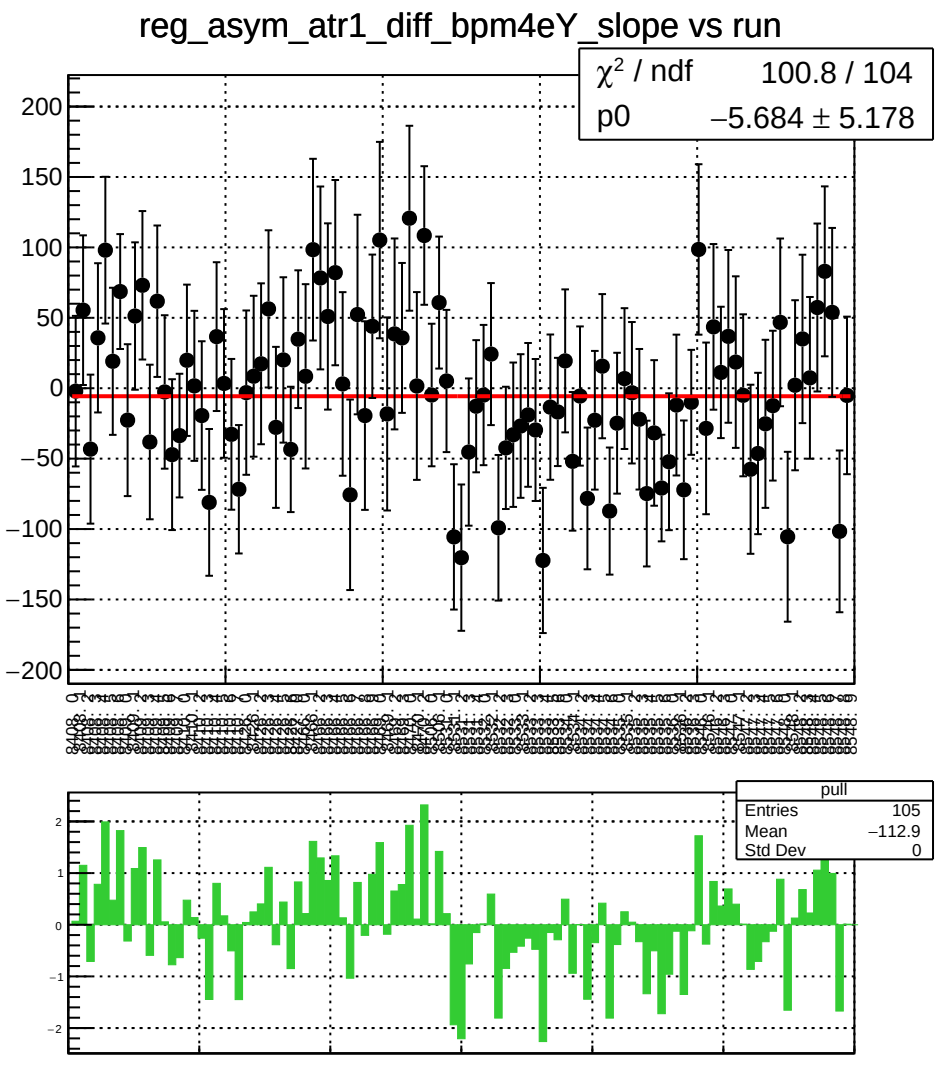

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 108.6 / 104
p0 −133 ± 2.793
−50
−100
−150
−200
−250
pull
Entries 105
Mean 1017
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.01393
Std Dev 1.017
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

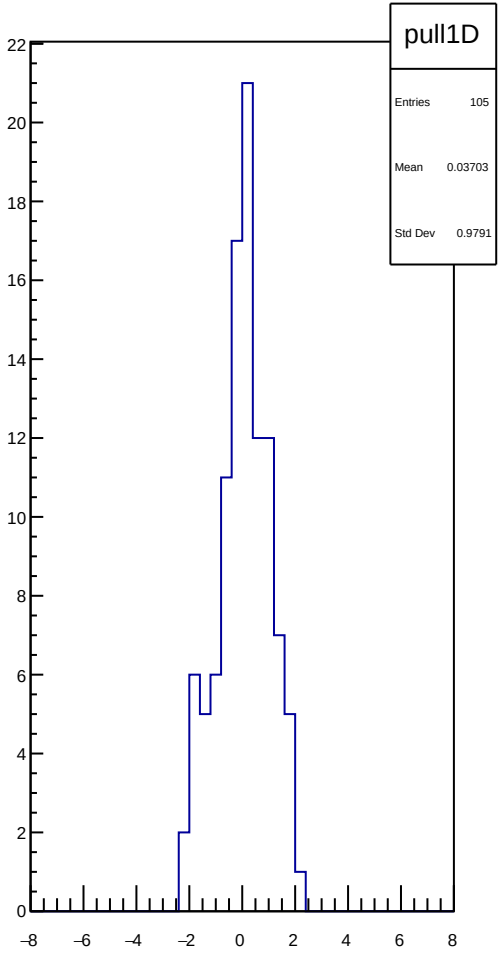

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 83.85 / 104
p0 12.8 ± 4.874
pull
Entries 105
Mean −148.8
Std Dev 0

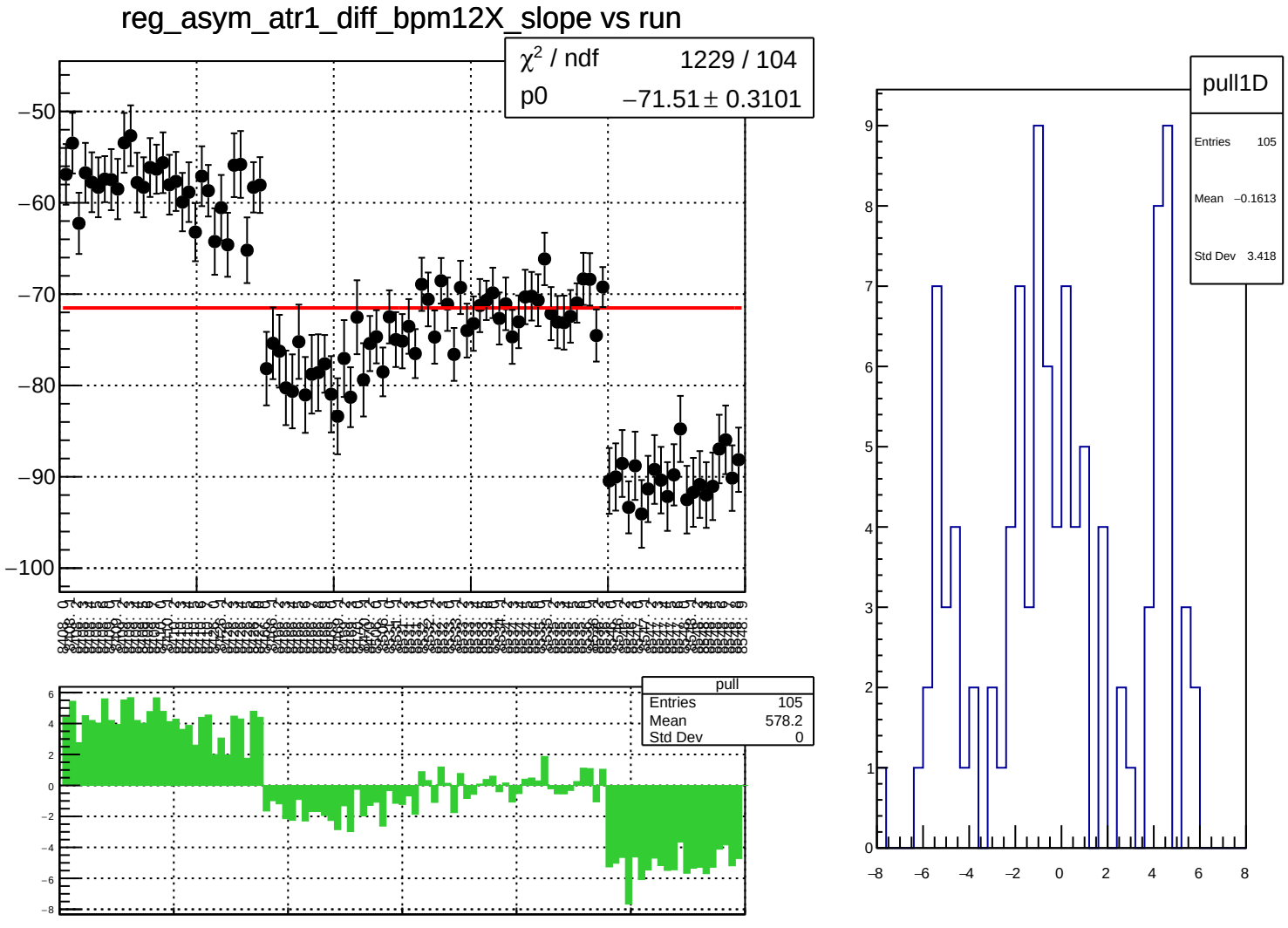

pull1D
Entries 105
Mean −0.02122
Std Dev 0.8934

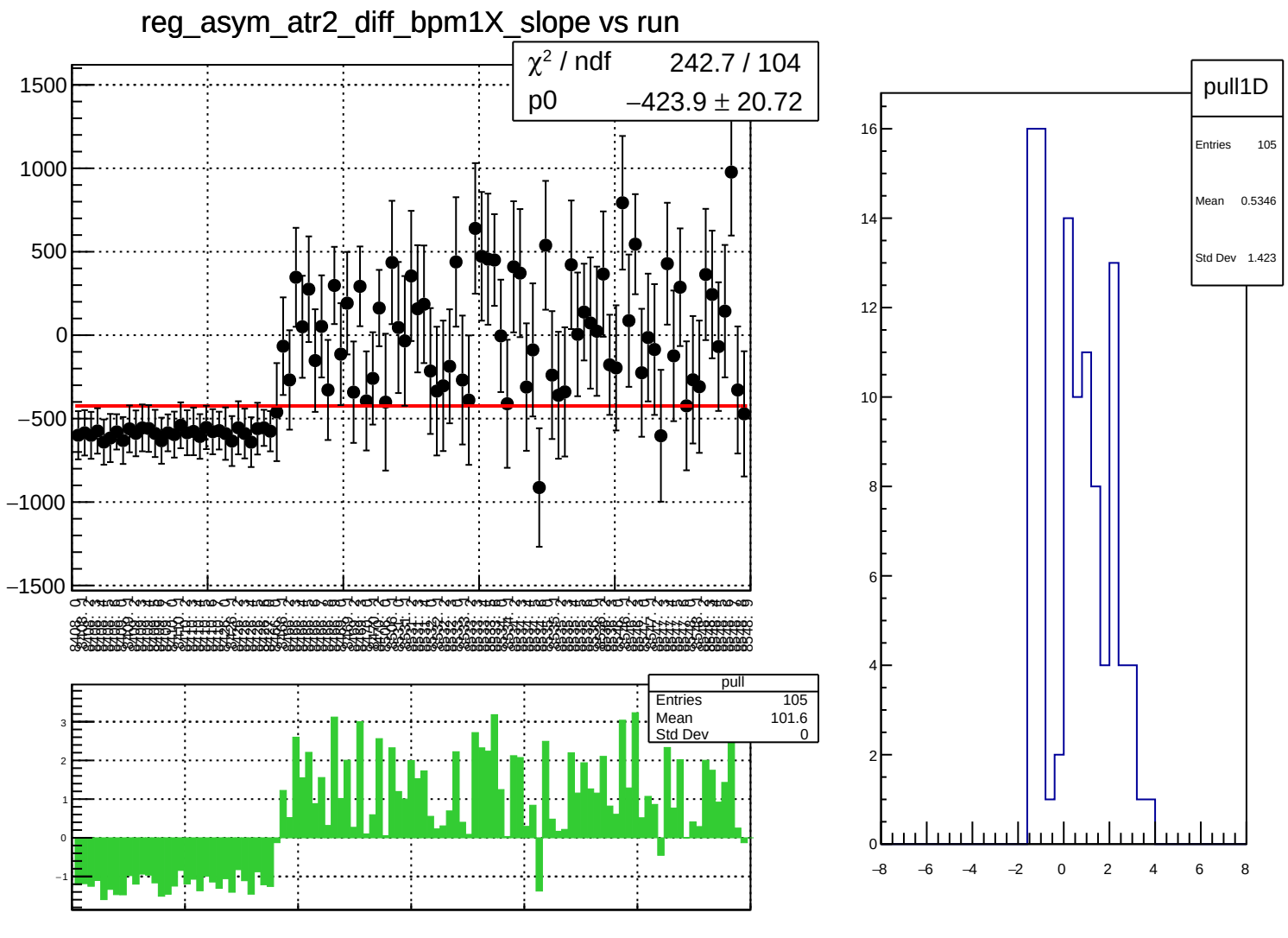

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 84.86 / 104
p0 57.8 ± 3.069
150
100
50
0
−50
pull
Entries 105
Mean −726.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

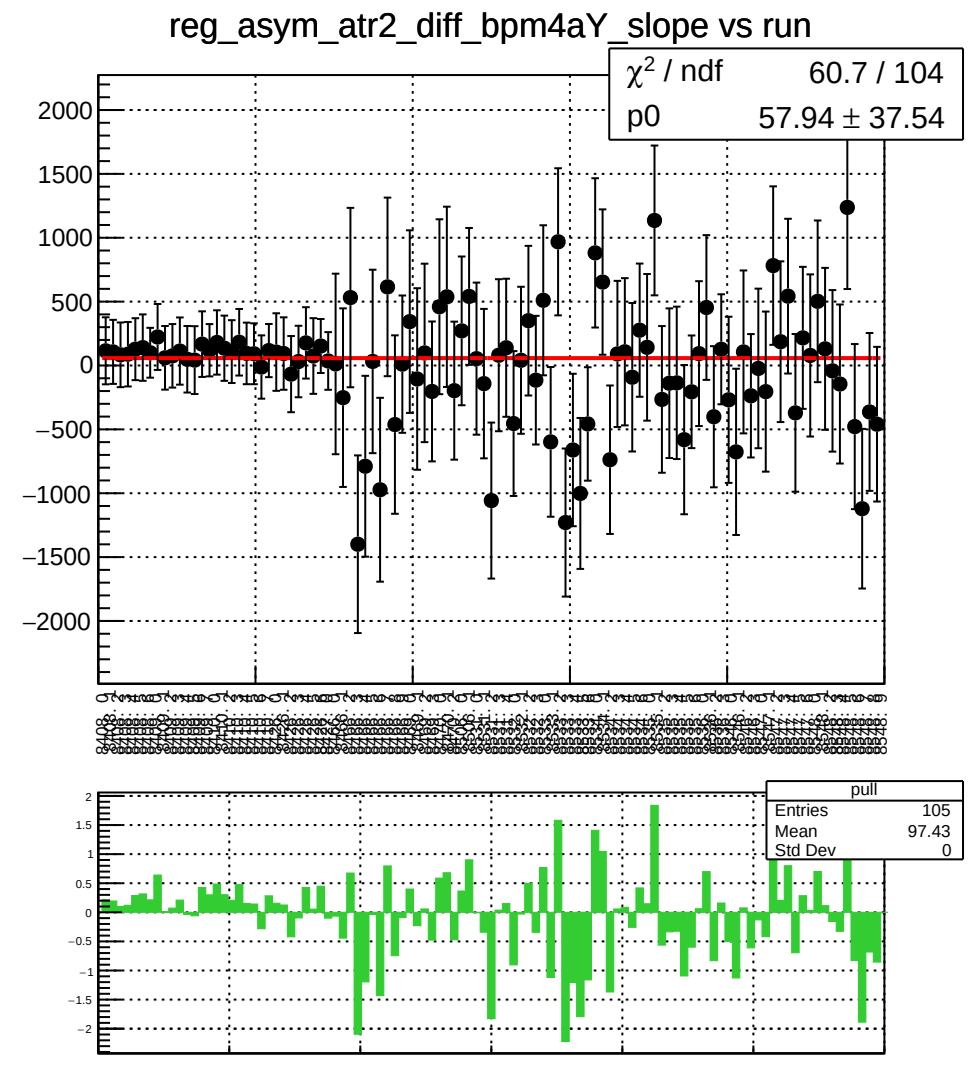

pull1D
Entries 105
Mean −0.008155
Std Dev 0.899
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

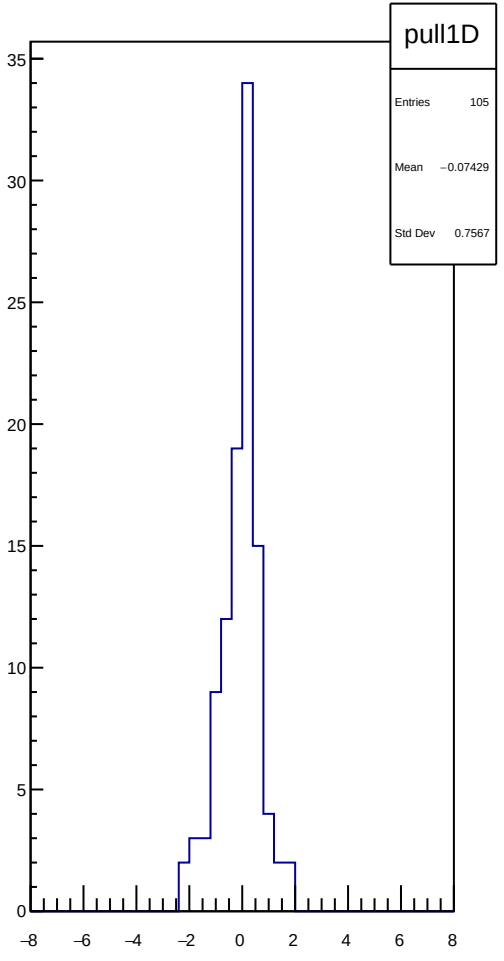

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 100.8 / 104
p0 −5.684 ± 5.178
pull
Entries 105
Mean −112.9
Std Dev 0

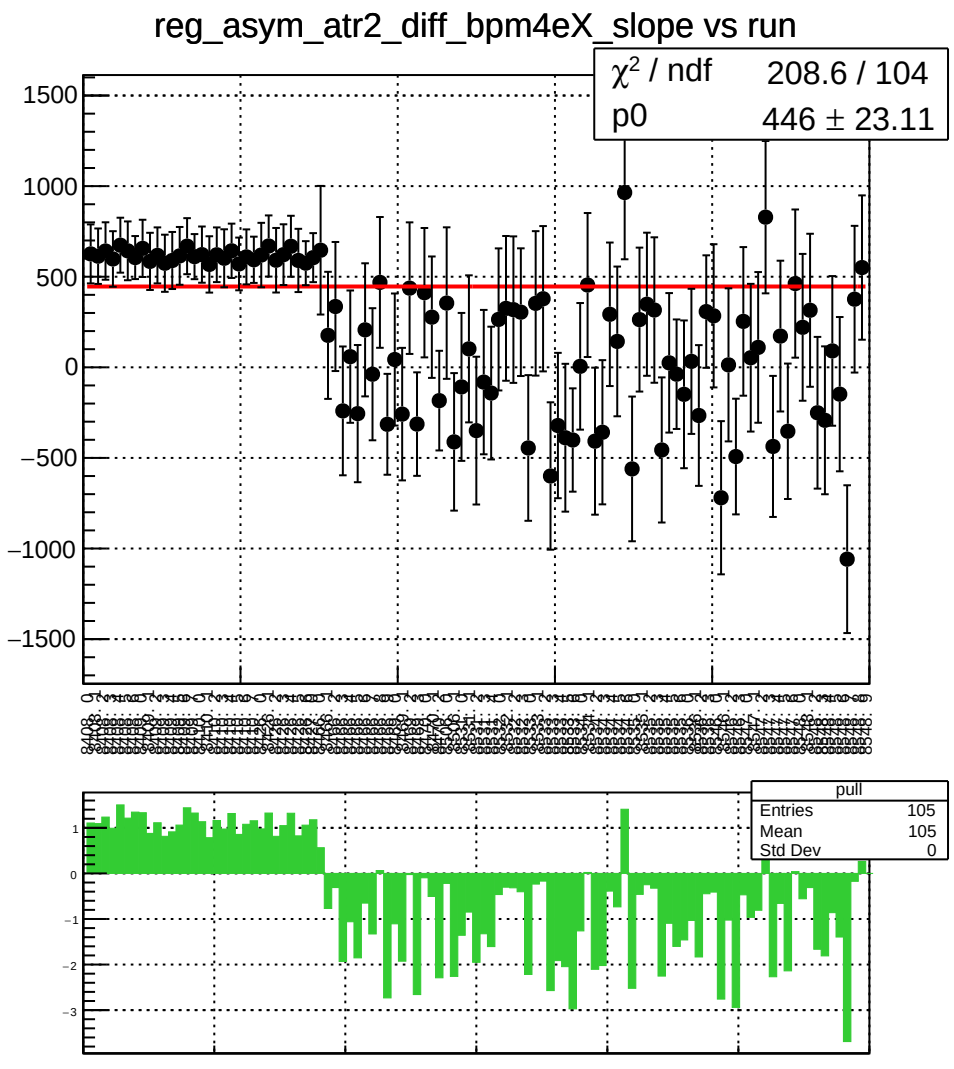

pull1D
Entries 105
Mean 0.03703
Std Dev 0.9791

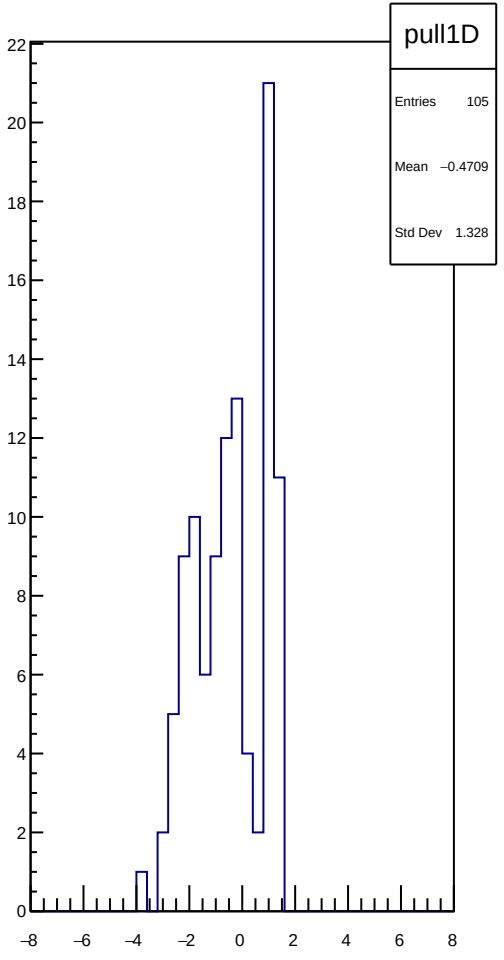

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 1229 / 104
p0 −71.51 ± 0.3101
−50
−60
−70
−80
−90
−100
pull
Entries 105
Mean 578.2
Std Dev 0
6
4
2
0
−2
−4
−6
−8
pull1D
Entries 105
Mean −0.1613
Std Dev 3.418
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

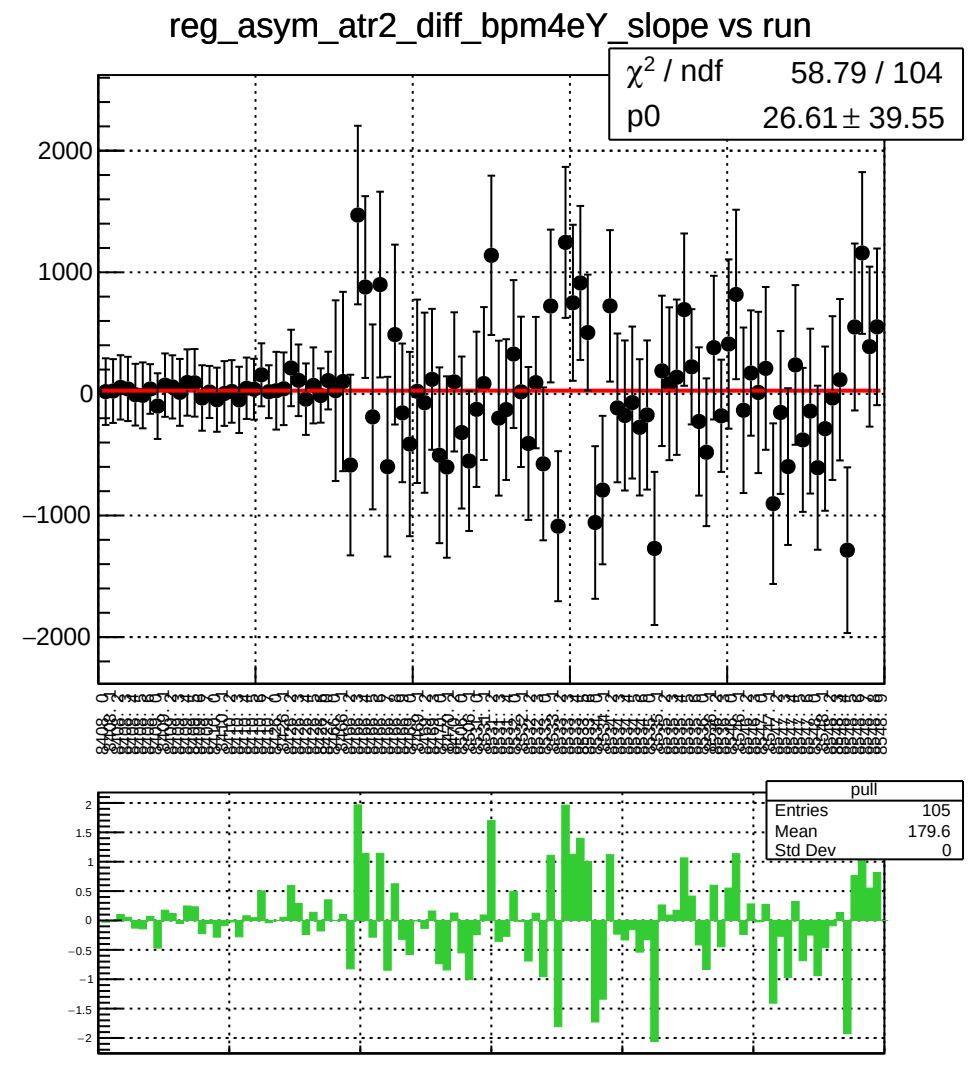

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 242.7 / 104
p0 −423.9 ± 20.72
1500
1000
500
0
−500
−1000
−1500
pull
Entries 105
Mean 101.6
Std Dev 0
3
2
1
0
−1
pull1D
Entries 105
Mean 0.5346
Std Dev 1.423
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

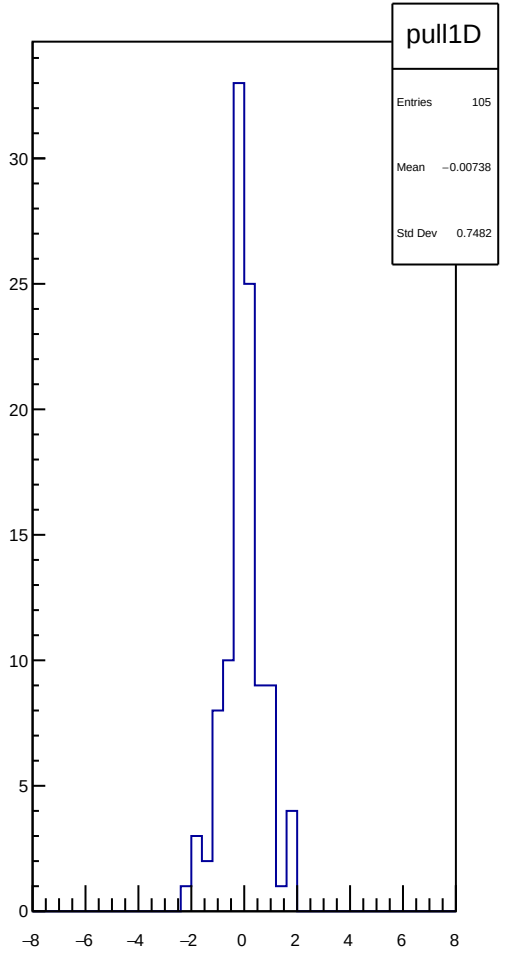

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 60.7 / 104
p0 57.94 ± 37.54
2000
1500
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 105
Mean 97.43
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

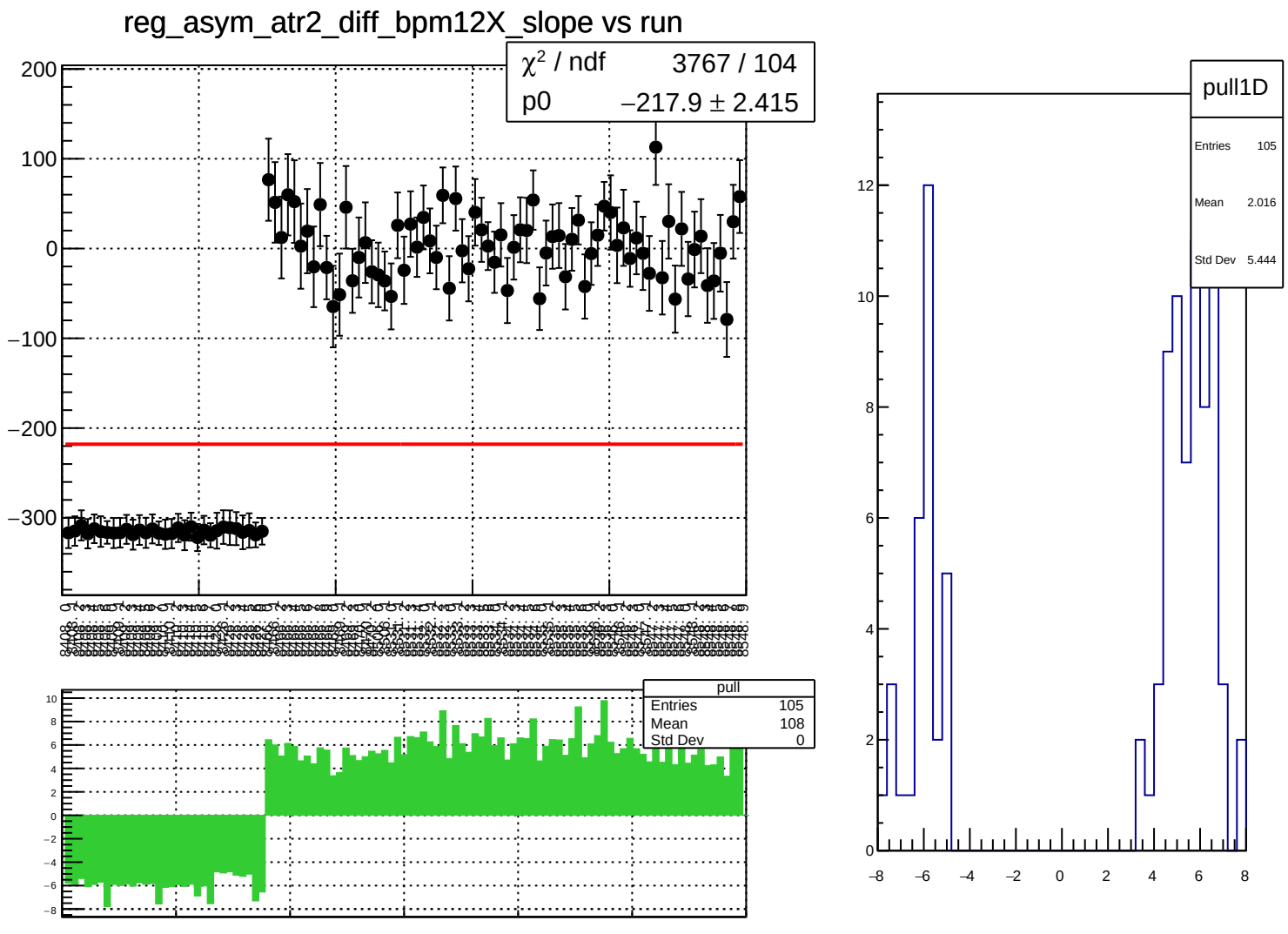

pull1D
Entries 105
Mean −0.07429
Std Dev 0.7567
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

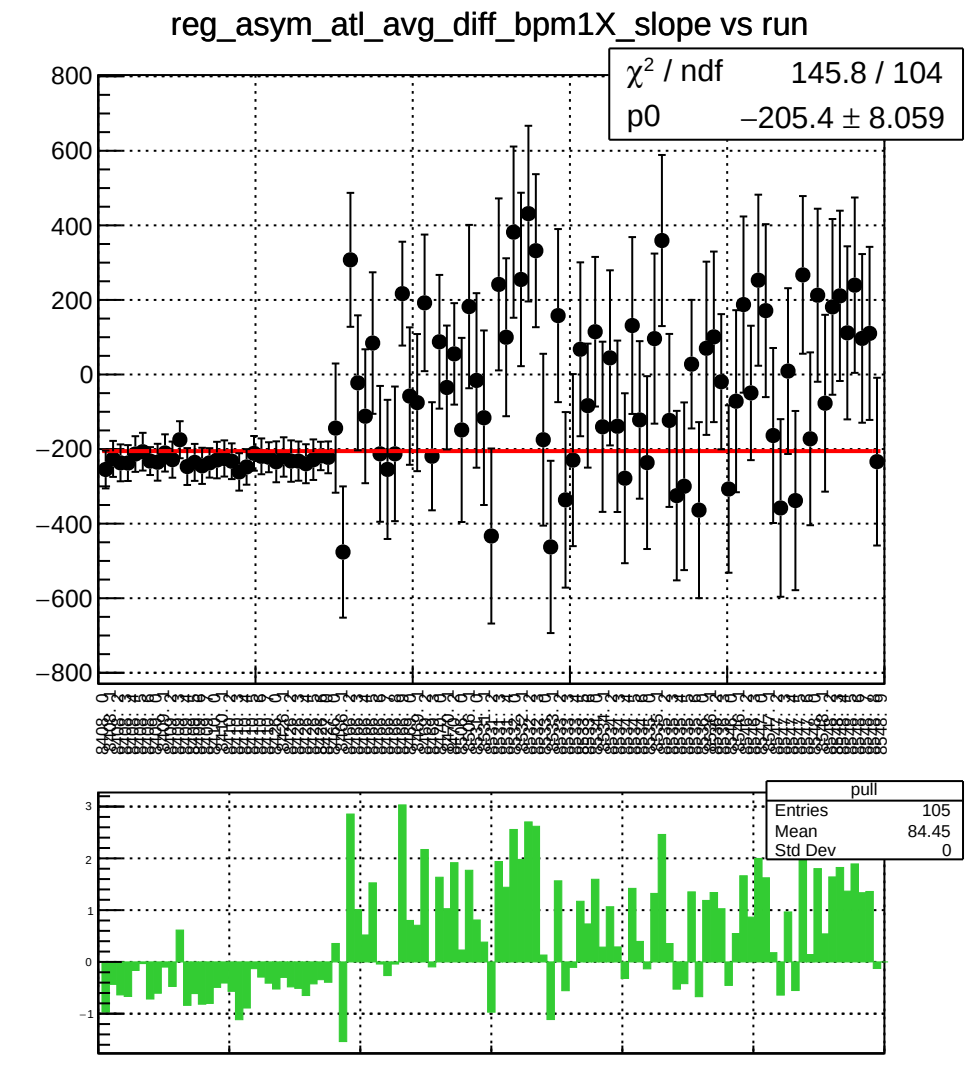

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 208.6 / 104
p0 446 ± 23.11
1500
1000
500
0
−500
−1000
−1500
pull
Entries 105
Mean 105
Std Dev 0
1
0
−1
−2
−3

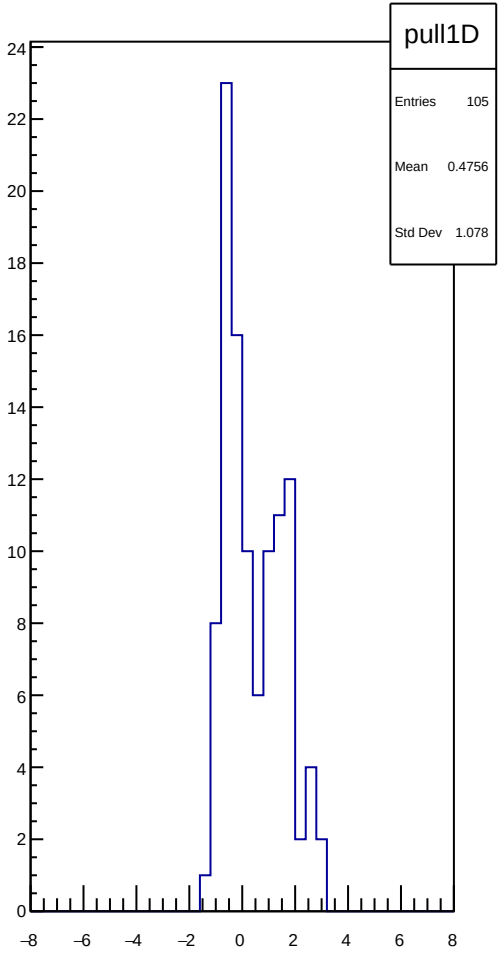

pull1D
Entries 105
Mean −0.4709
Std Dev 1.328
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

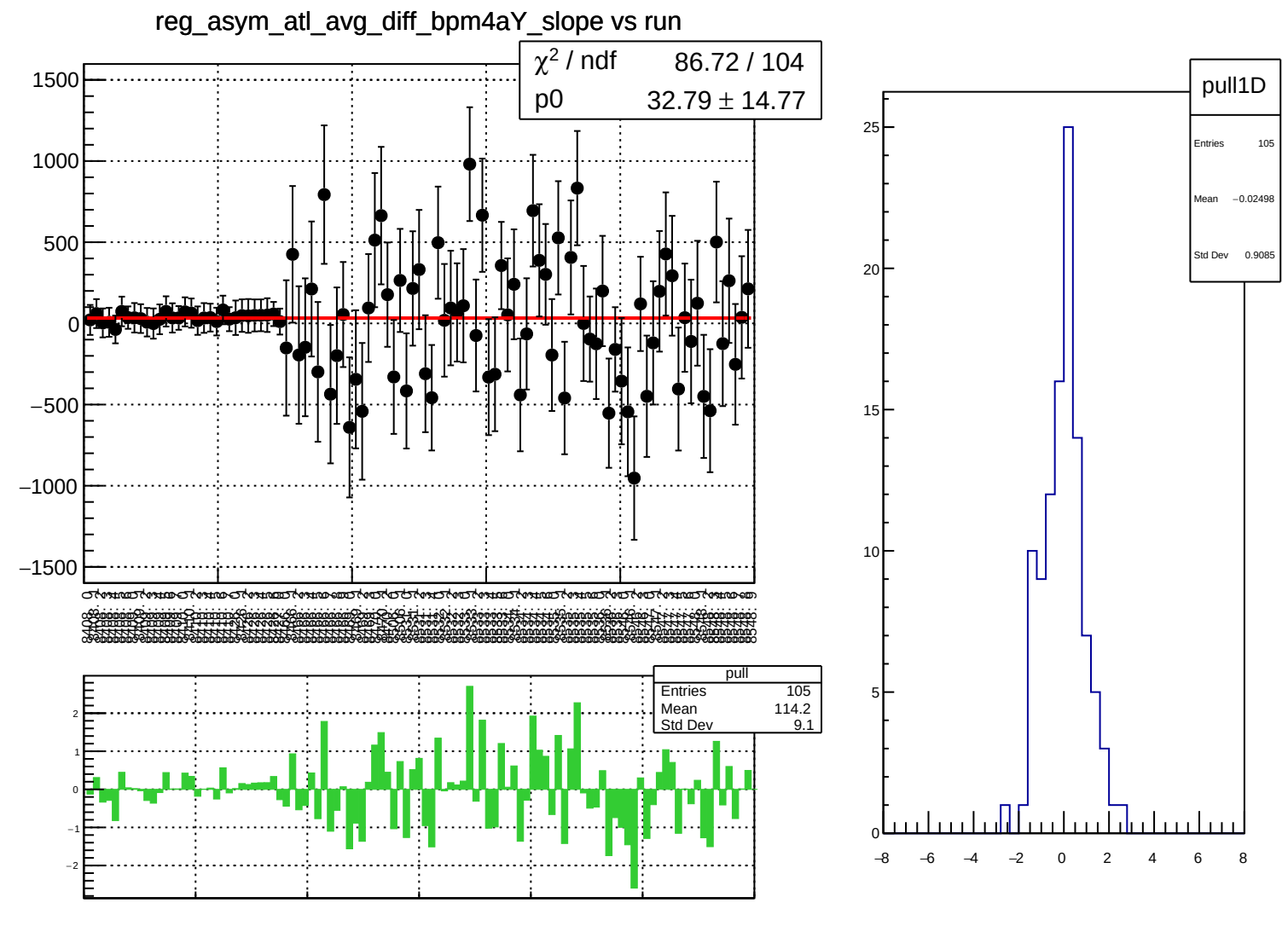

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 58.79 / 104
p0 26.61 ± 39.55
2000
1000
0
−1000
−2000
pull
Entries 105
Mean 179.6
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

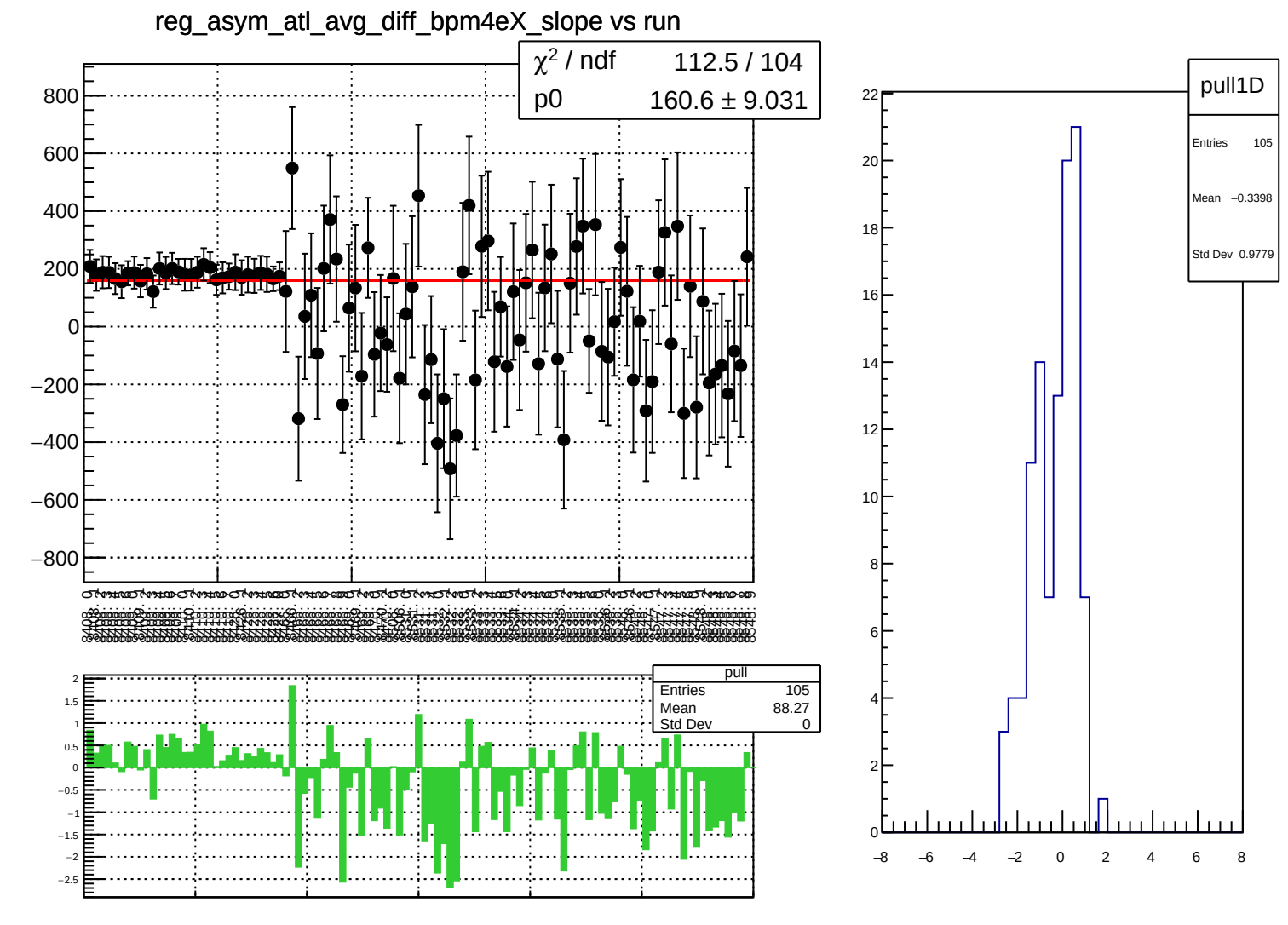

pull1D
Entries 105
Mean −0.00738
Std Dev 0.7482
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

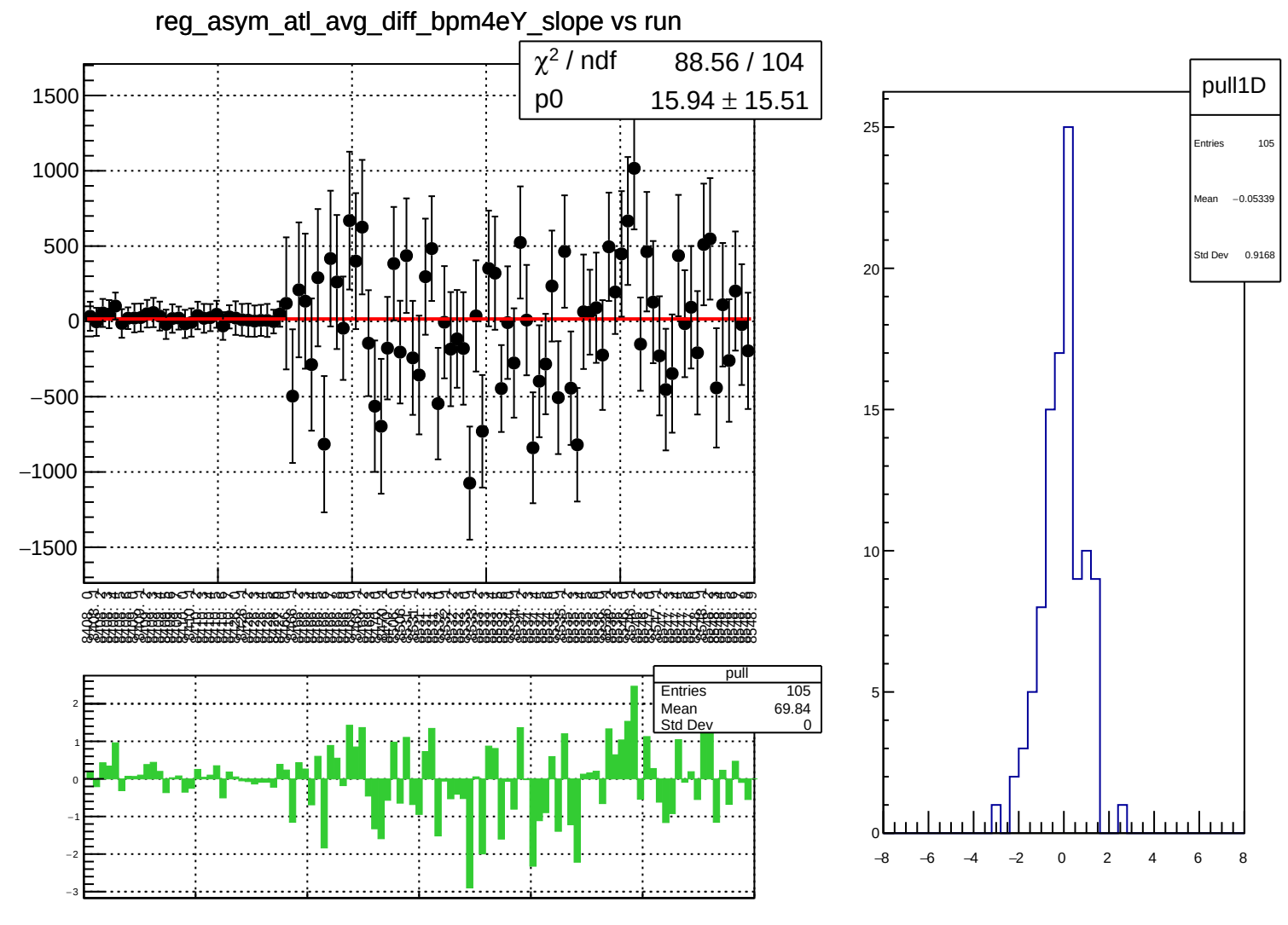

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 3767 / 104
p0 −217.9 ± 2.415
200
100
0
−100
−200
−300
pull
Entries 105
Mean 108
Std Dev 0
10
8
6
4
2
0
−2
−4
−6
−8
pull1D
Entries 105
Mean 2.016
Std Dev 5.444
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

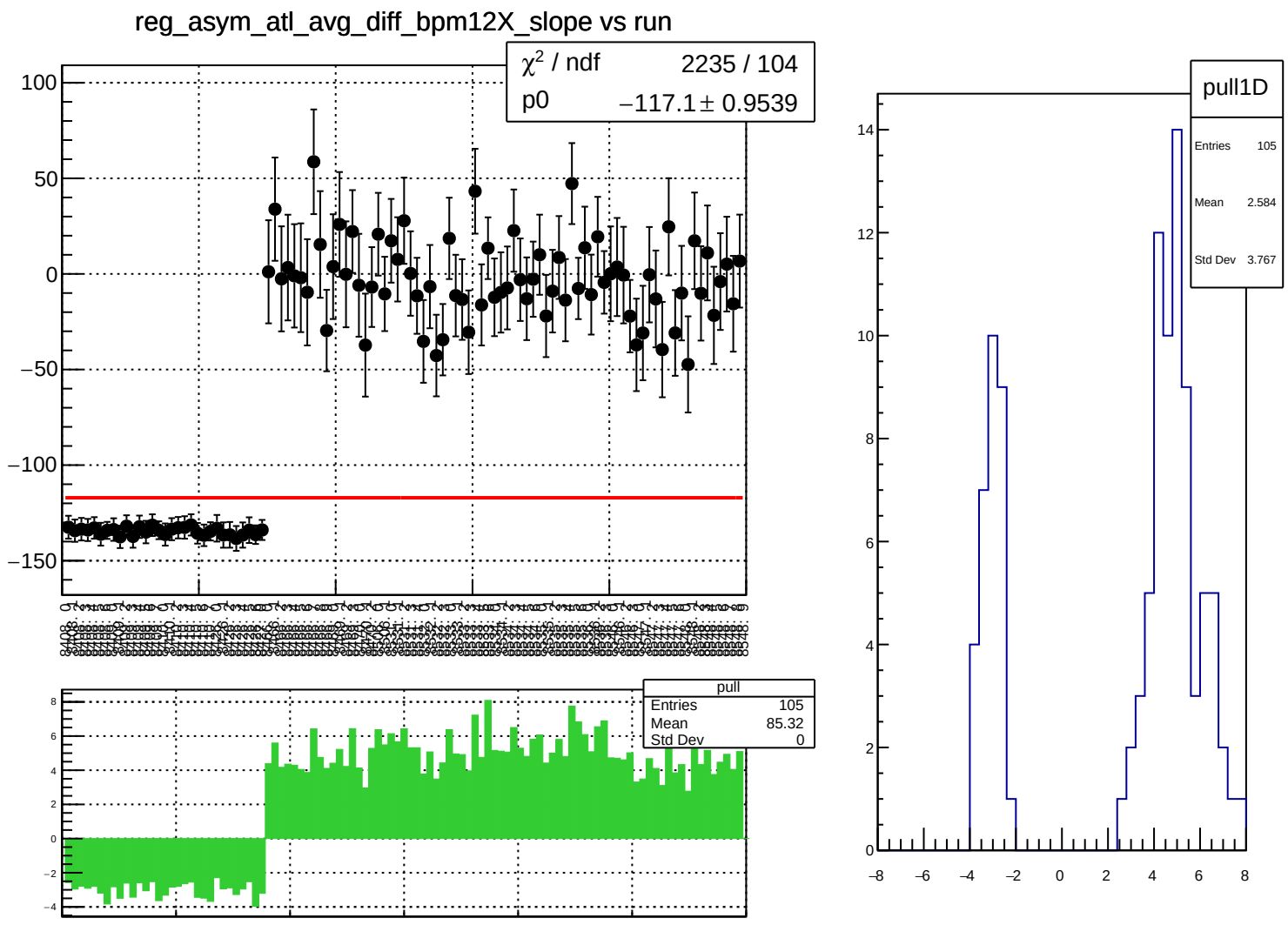

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 145.8 / 104
p0 −205.4 ± 8.059
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 105
Mean 84.45
Std Dev 0
3
2
1
0
−1

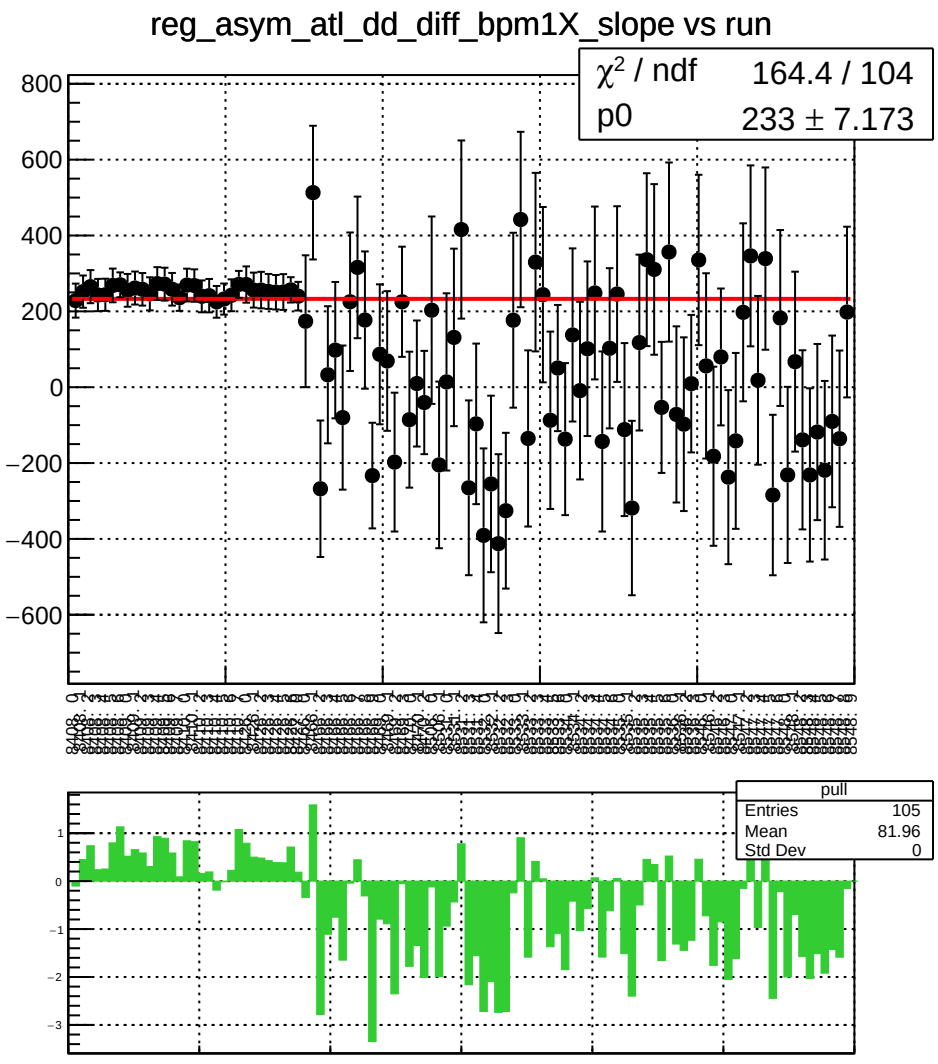

pull1D
Entries 105
Mean 0.4756
Std Dev 1.078
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

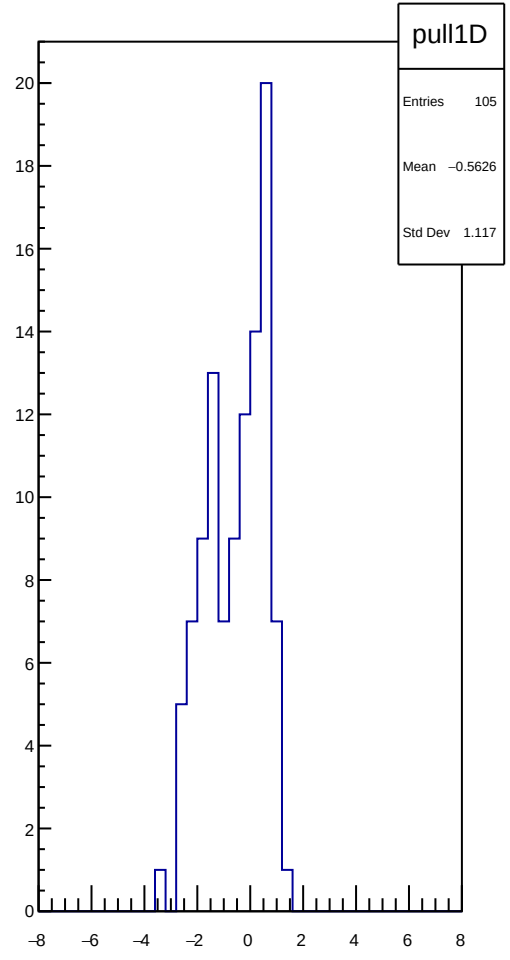

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 86.72 / 104
p0 32.79 ± 14.77
1500
1000
500
0
−500
−1000
−1500
pull
Entries 105
Mean 114.2
Std Dev 9.1
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.02498
Std Dev 0.9085
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

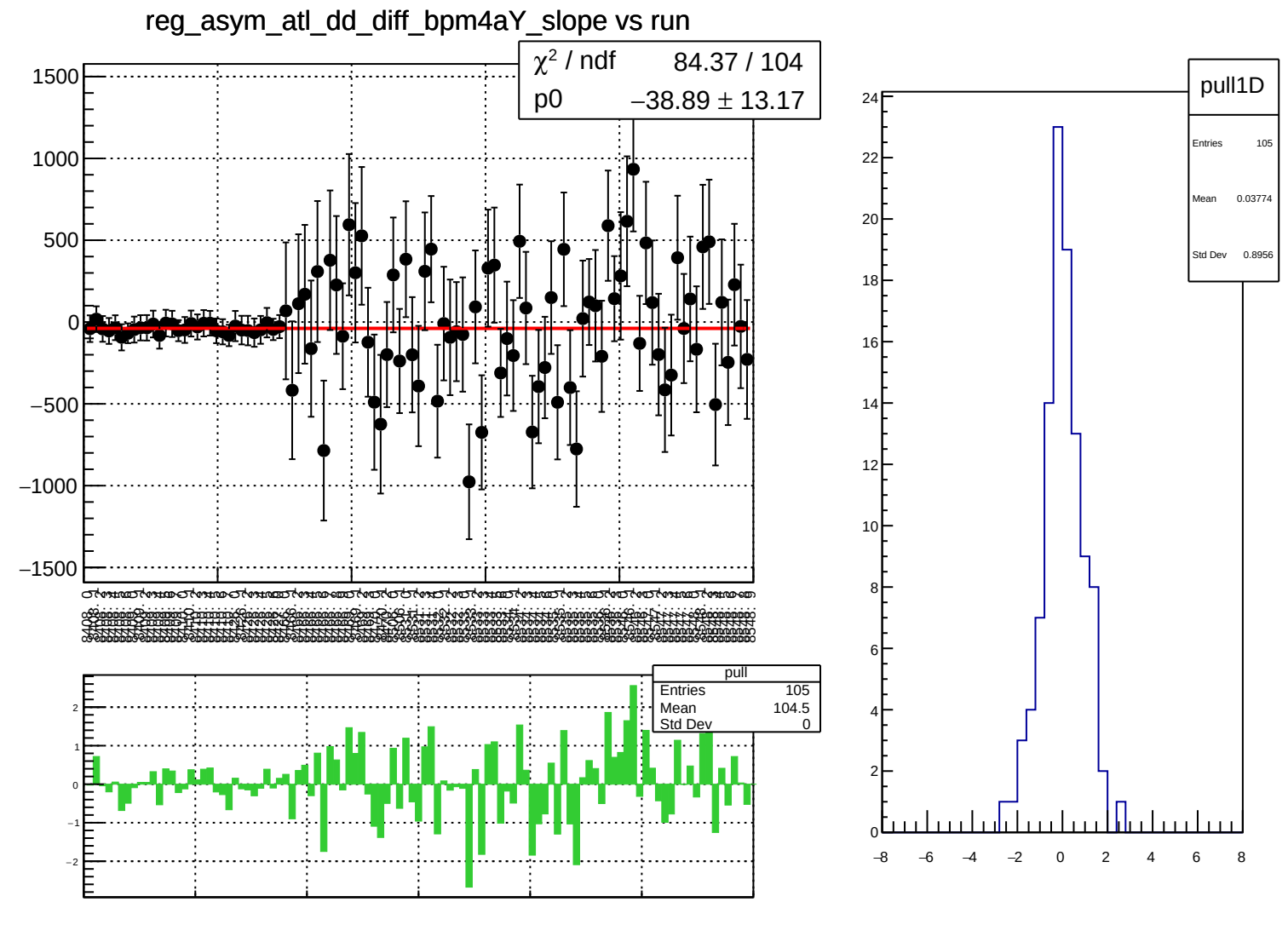

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 112.5 / 104
p0 160.6 ± 9.031
pull
Entries 105
Mean 88.27
Std Dev 0
pull1D
Entries 105
Mean −0.3398
Std Dev 0.9779

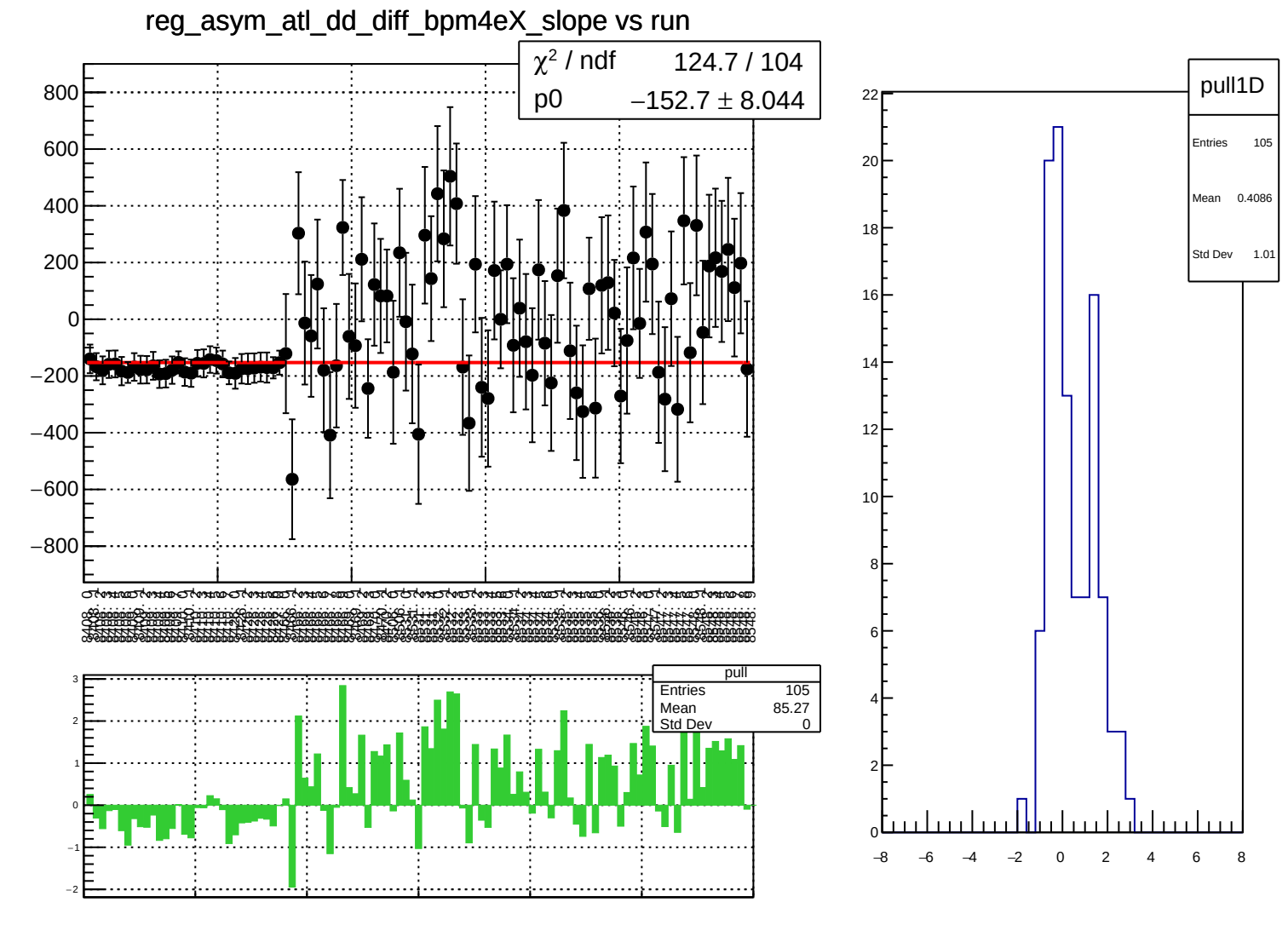

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 88.56 / 104
p0 15.94 ± 15.51
1500
1000
500
0
−500
−1000
−1500
pull
Entries 105
Mean 69.84
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 105
Mean −0.05339
Std Dev 0.9168
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

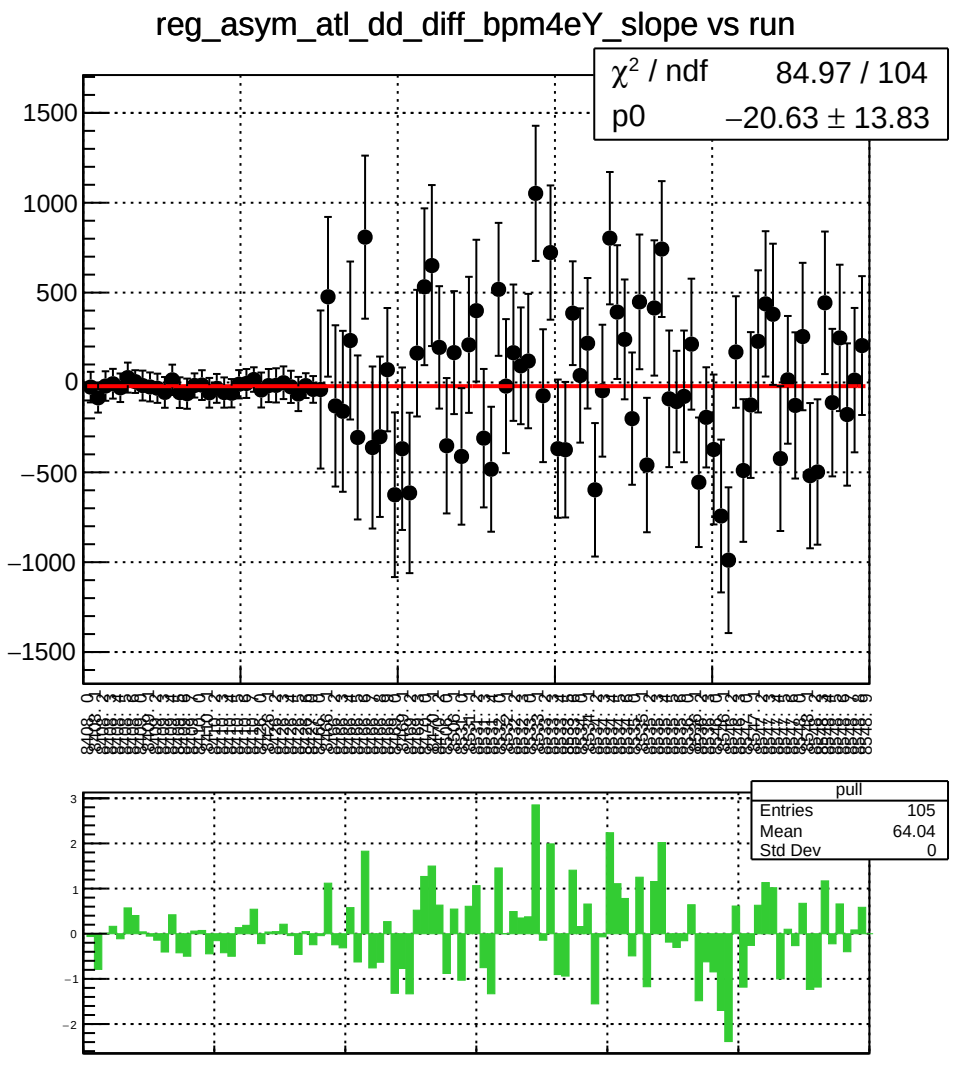

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 2235 / 104
p0 −117.1 ± 0.9539
100
50
0
−50
−100
−150
pull
Entries 105
Mean 85.32
Std Dev 0
8
6
4
2
0
−2
−4
pull1D
Entries 105
Mean 2.584
Std Dev 3.767
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

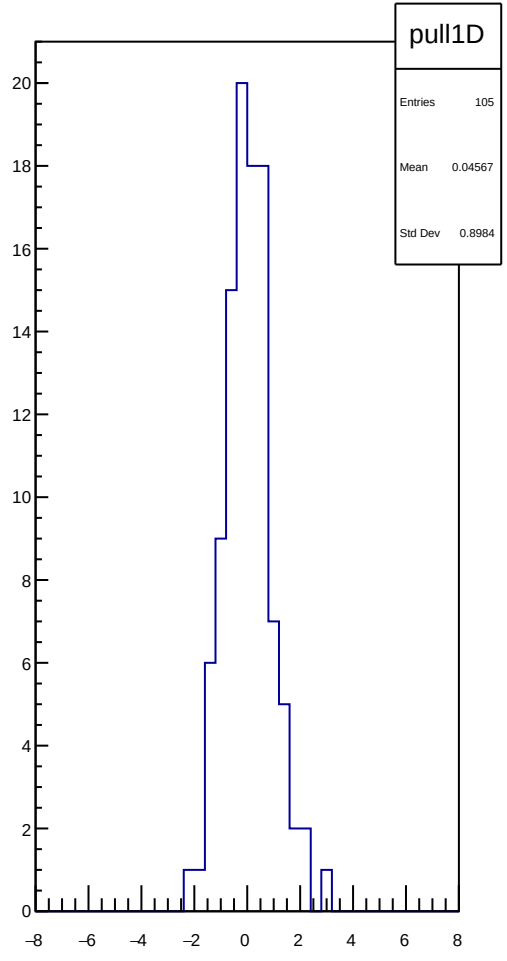

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 164.4 / 104
p0 233 ± 7.173
800
600
400
200
0
−200
−400
−600
pull
Entries 105
Mean 81.96
Std Dev 0
1
0
−1
−2
−3

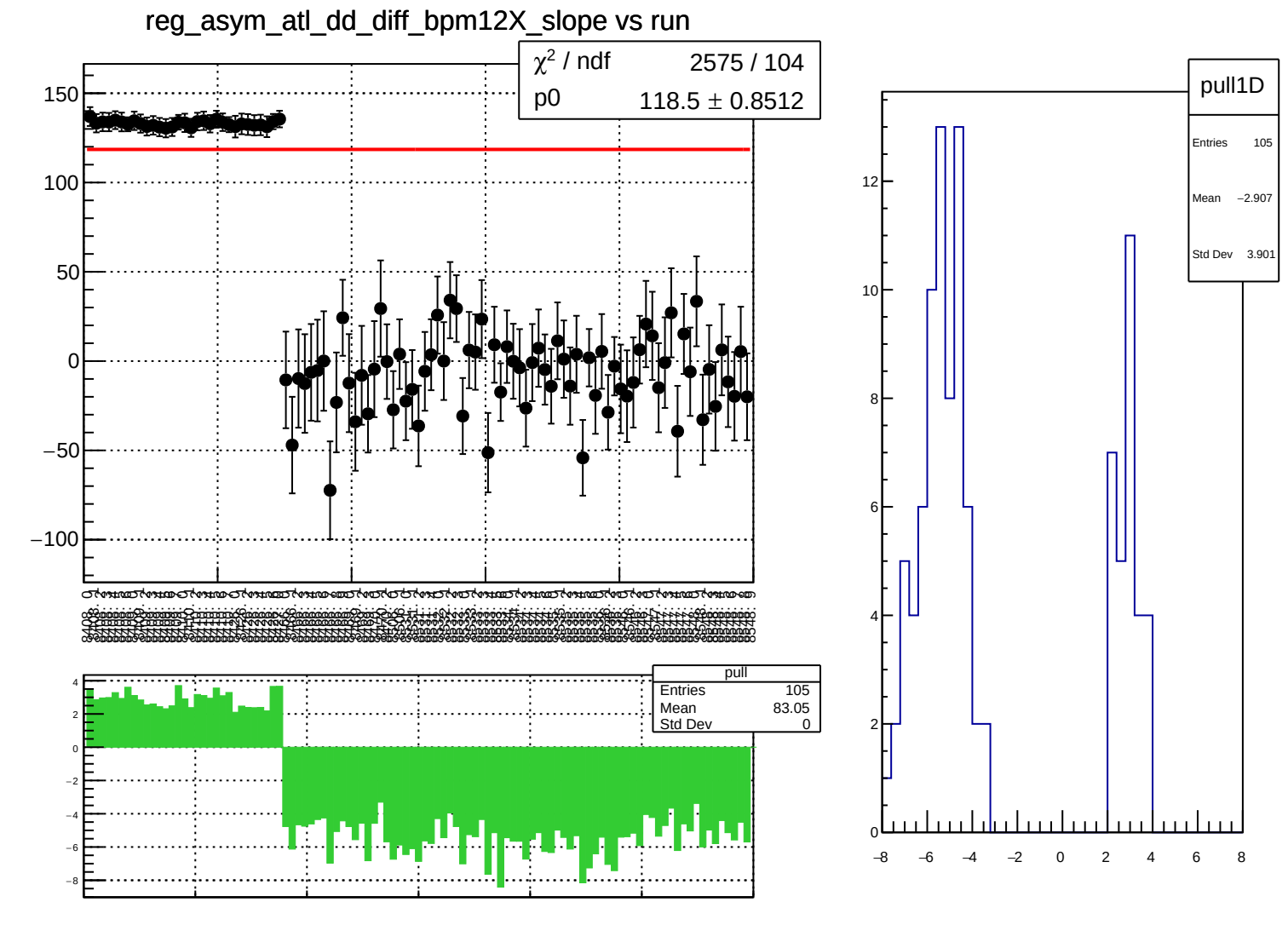

pull1D
Entries 105
Mean −0.5626
Std Dev 1.117
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

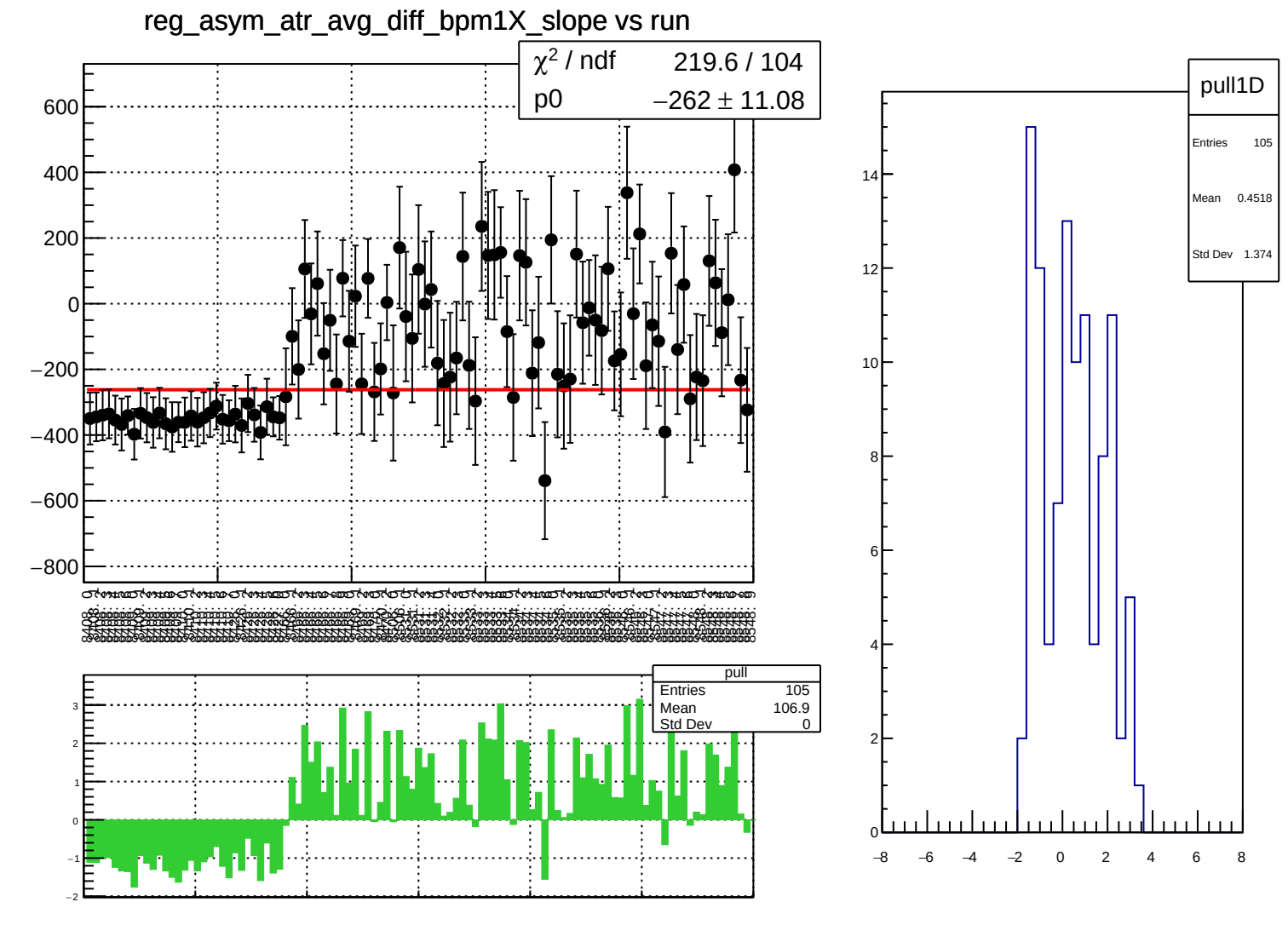

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 84.37 / 104
p0 −38.89 ± 13.17
1500
1000
500
0
−500
−1000
−1500
pull
Entries 105
Mean 104.5
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.03774
Std Dev 0.8956
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

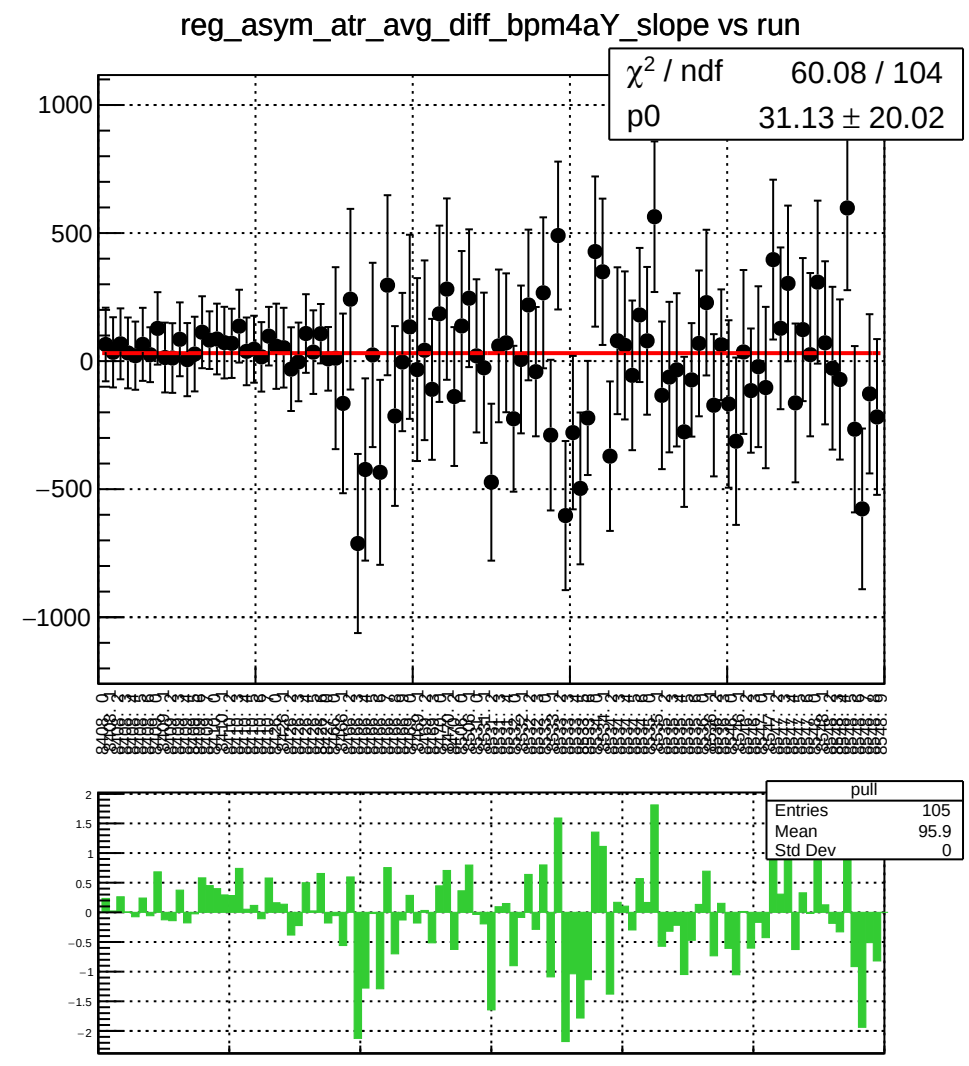

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 124.7 / 104
p0 −152.7 ± 8.044
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 105
Mean 85.27
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.4086
Std Dev 1.01
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

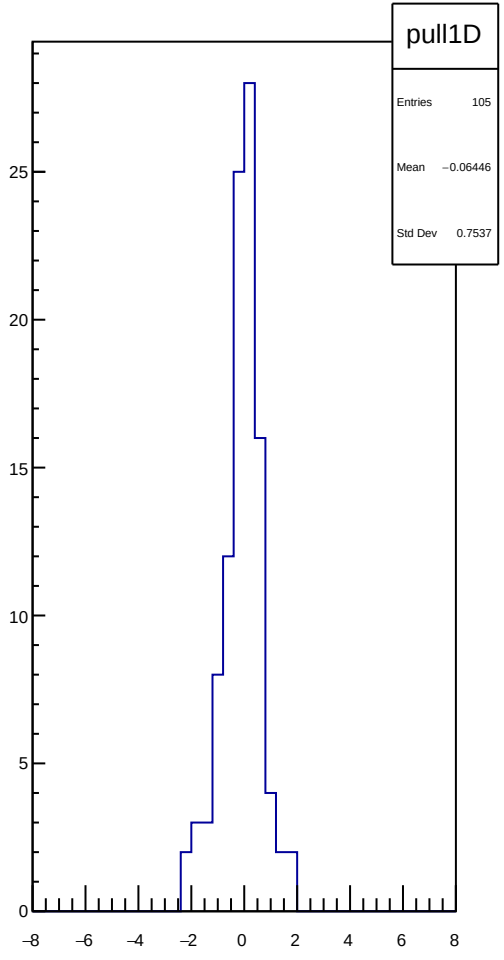

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 84.97 / 104
p0 −20.63 ± 13.83
1500
1000
500
0
−500
−1000
−1500
pull
Entries 105
Mean 64.04
Std Dev 0
3
2
1
0
−1
−2

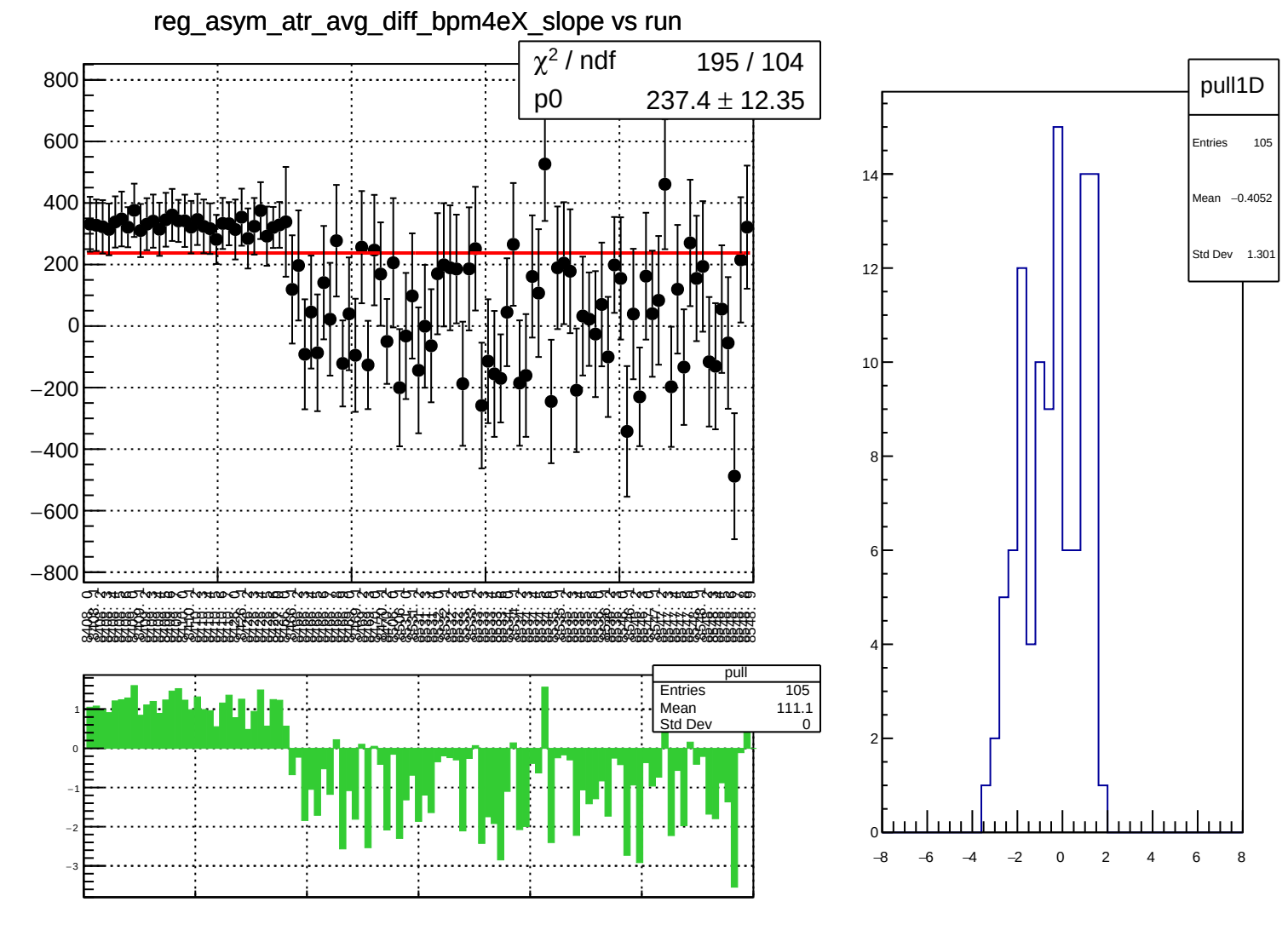

pull1D
Entries 105
Mean 0.04567
Std Dev 0.8984
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

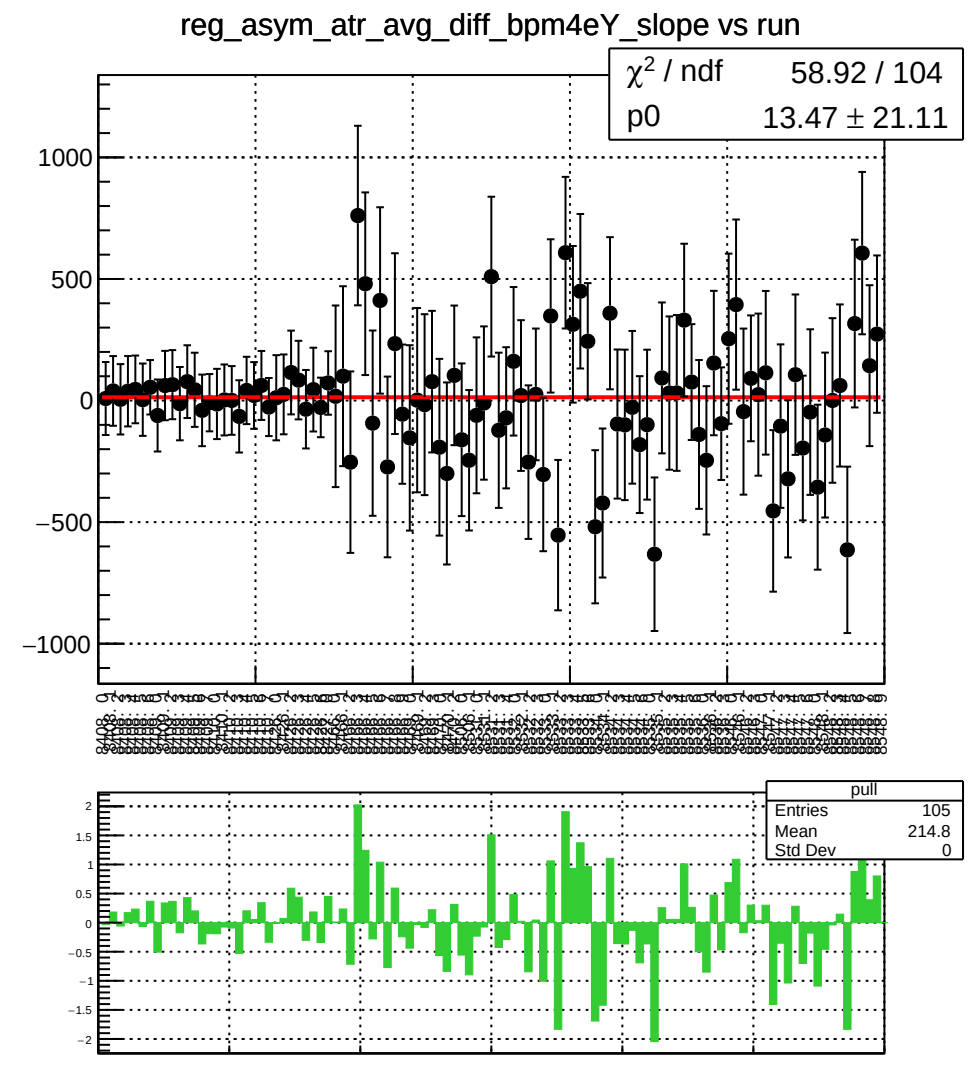

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 2575 / 104
p0 118.5 ± 0.8512
150
100
50
0
−50
−100
pull
Entries 105
Mean 83.05
Std Dev 0
4
2
0
−2
−4
−6
−8
pull1D
Entries 105
Mean −2.907
Std Dev 3.901
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

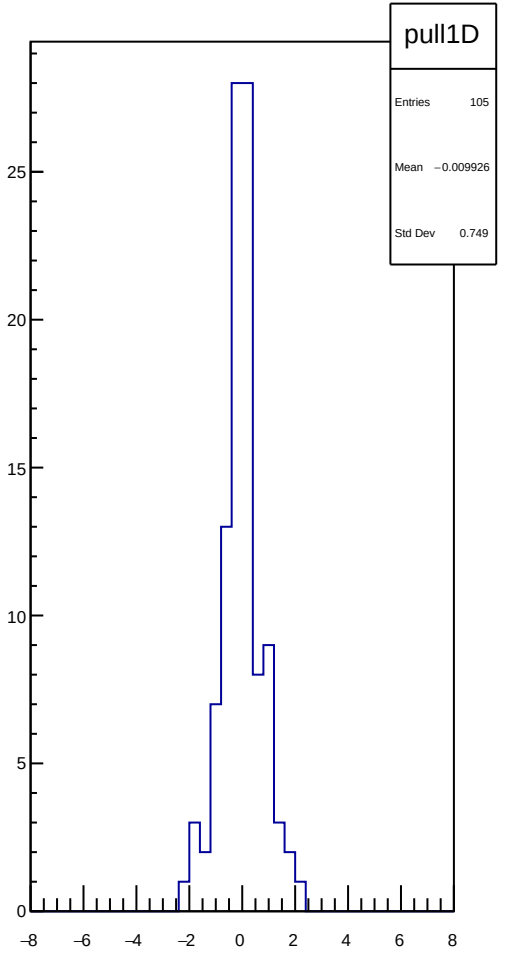

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 219.6 / 104
p0 −262 ± 11.08
600
400
200
0
−200
−400
−600
−800
pull
Entries 105
Mean 106.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.4518
Std Dev 1.374
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

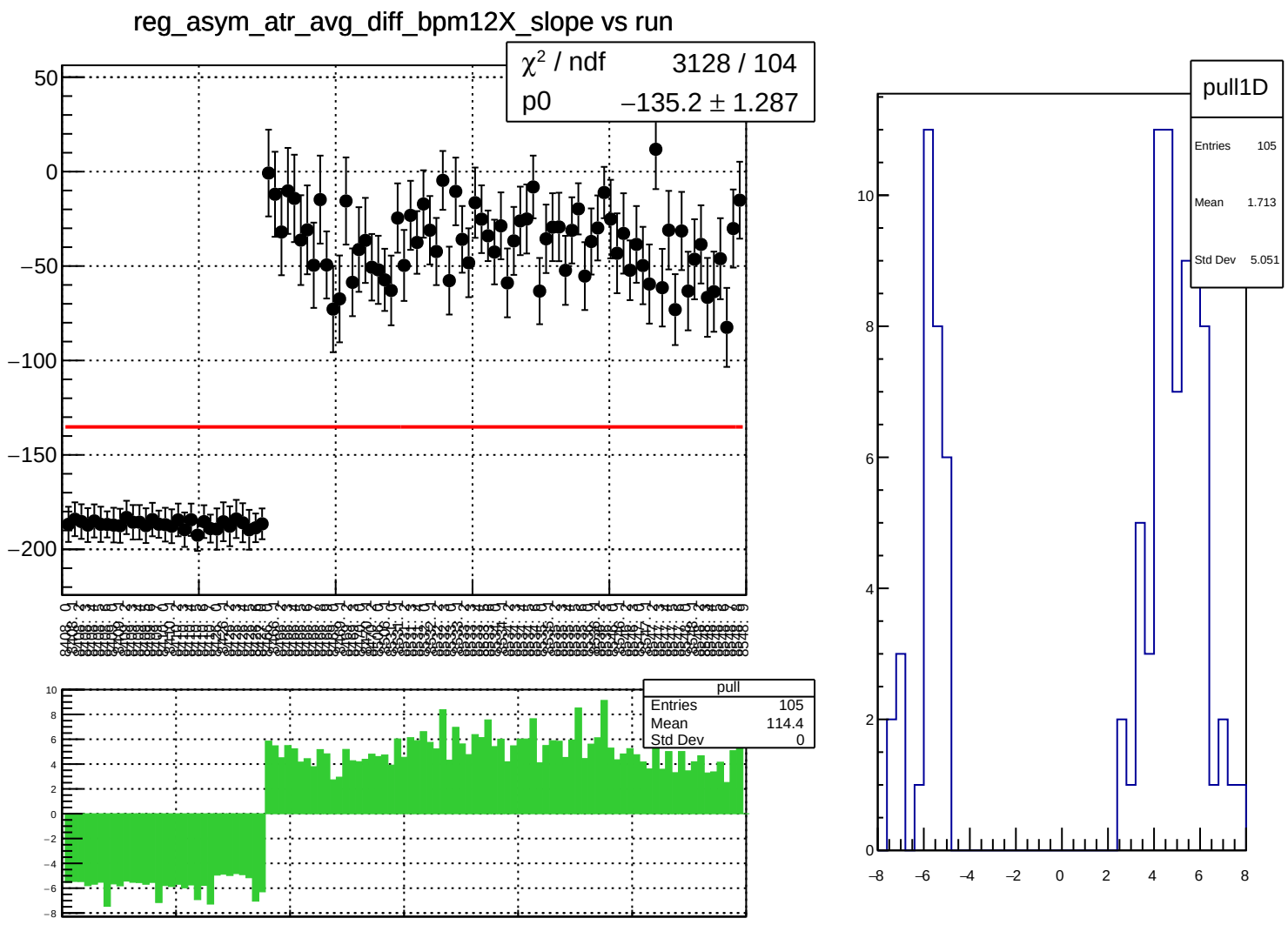

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 60.08 / 104
p0 31.13 ± 20.02
1000
500
0
−500
−1000
pull
Entries 105
Mean 95.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

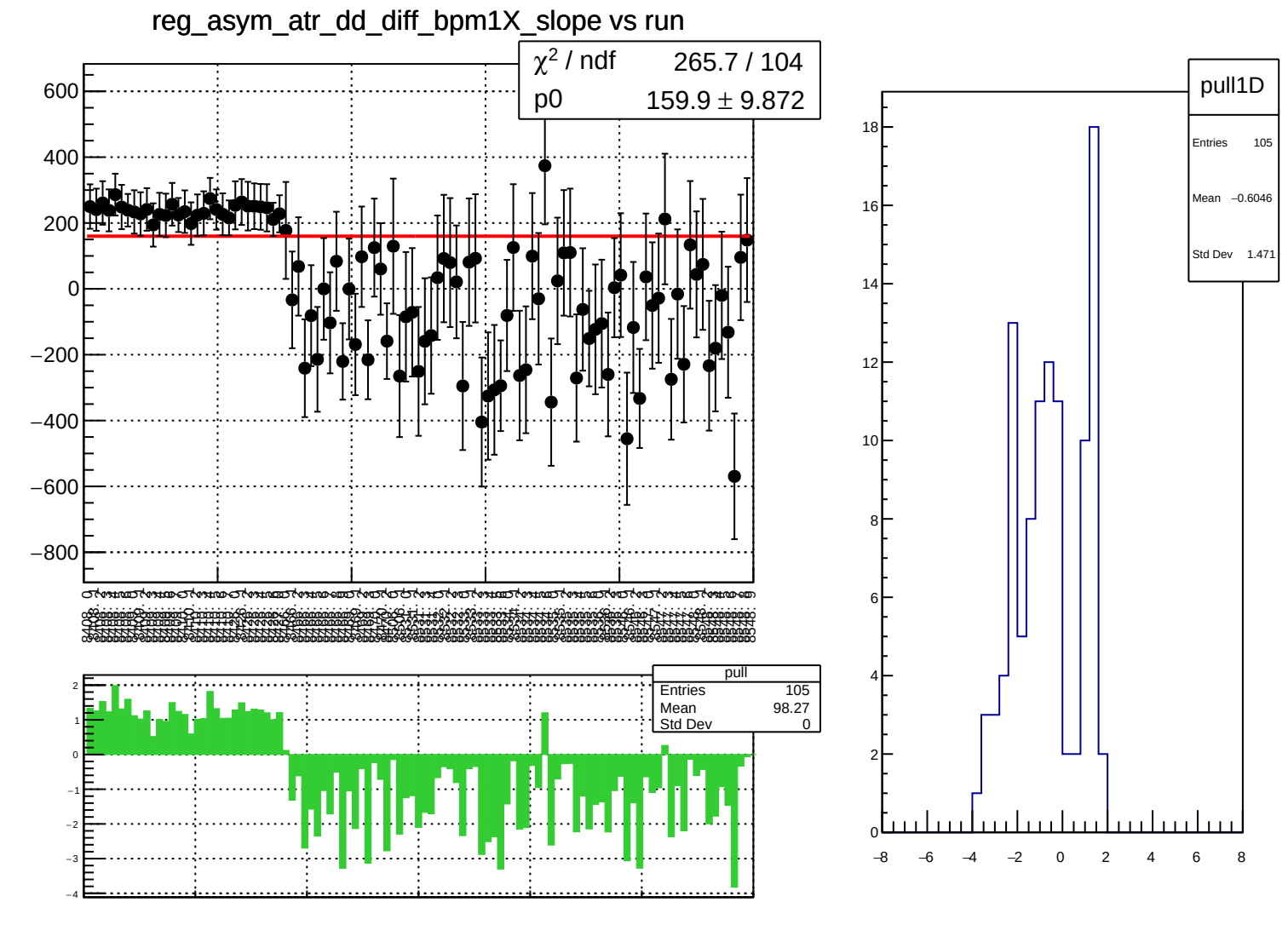

pull1D
Entries 105
Mean −0.06446
Std Dev 0.7537
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

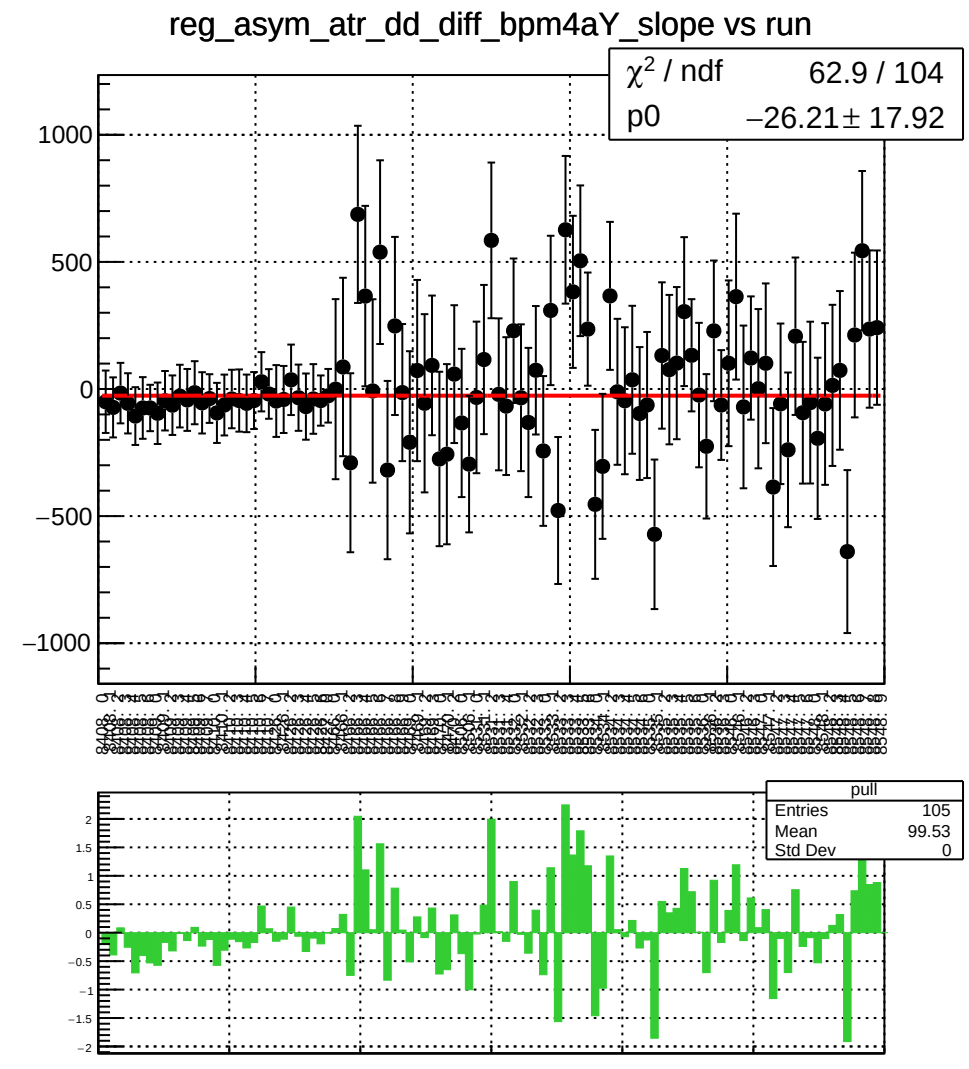

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 195 / 104
p0 237.4 ± 12.35
pull
Entries 105
Mean 111.1
Std Dev 0
pull1D
Entries 105
Mean −0.4052
Std Dev 1.301

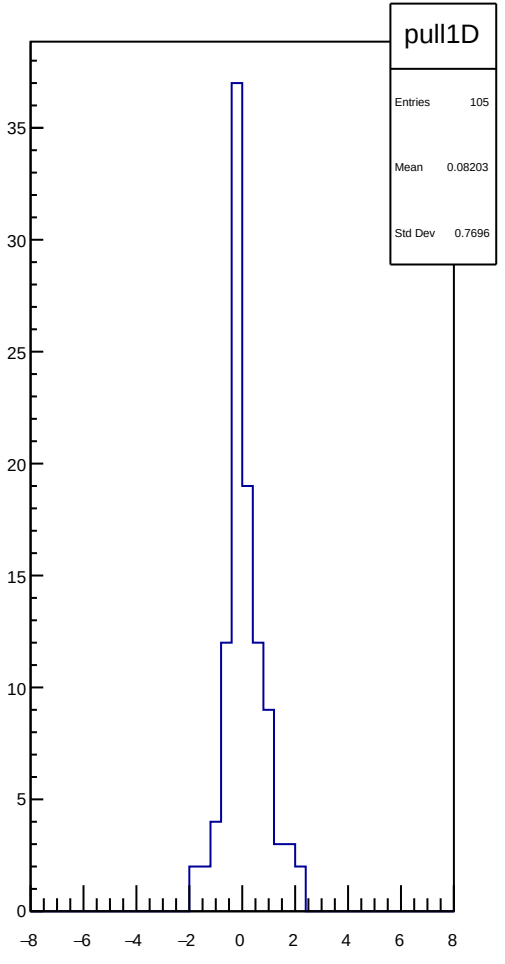

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 58.92 / 104
p0 13.47 ± 21.11
1000
500
0
−500
−1000
pull
Entries 105
Mean 214.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 105
Mean −0.009926
Std Dev 0.749
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 3128 / 104
p0 −135.2 ± 1.287
50
0
−50
−100
−150
−200
pull
Entries 105
Mean 114.4
Std Dev 0
10
8
6
4
2
0
−2
−4
−6
−8
pull1D
Entries 105
Mean 1.713
Std Dev 5.051
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 265.7 / 104
p0 159.9 ± 9.872
pull
Entries 105
Mean 98.27
Std Dev 0
pull1D
Entries 105
Mean −0.6046
Std Dev 1.471


reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 62.9 / 104
p0 −26.21 ± 17.92
1000
500
0
−500
−1000
pull
Entries 105
Mean 99.53
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 105
Mean 0.08203
Std Dev 0.7696
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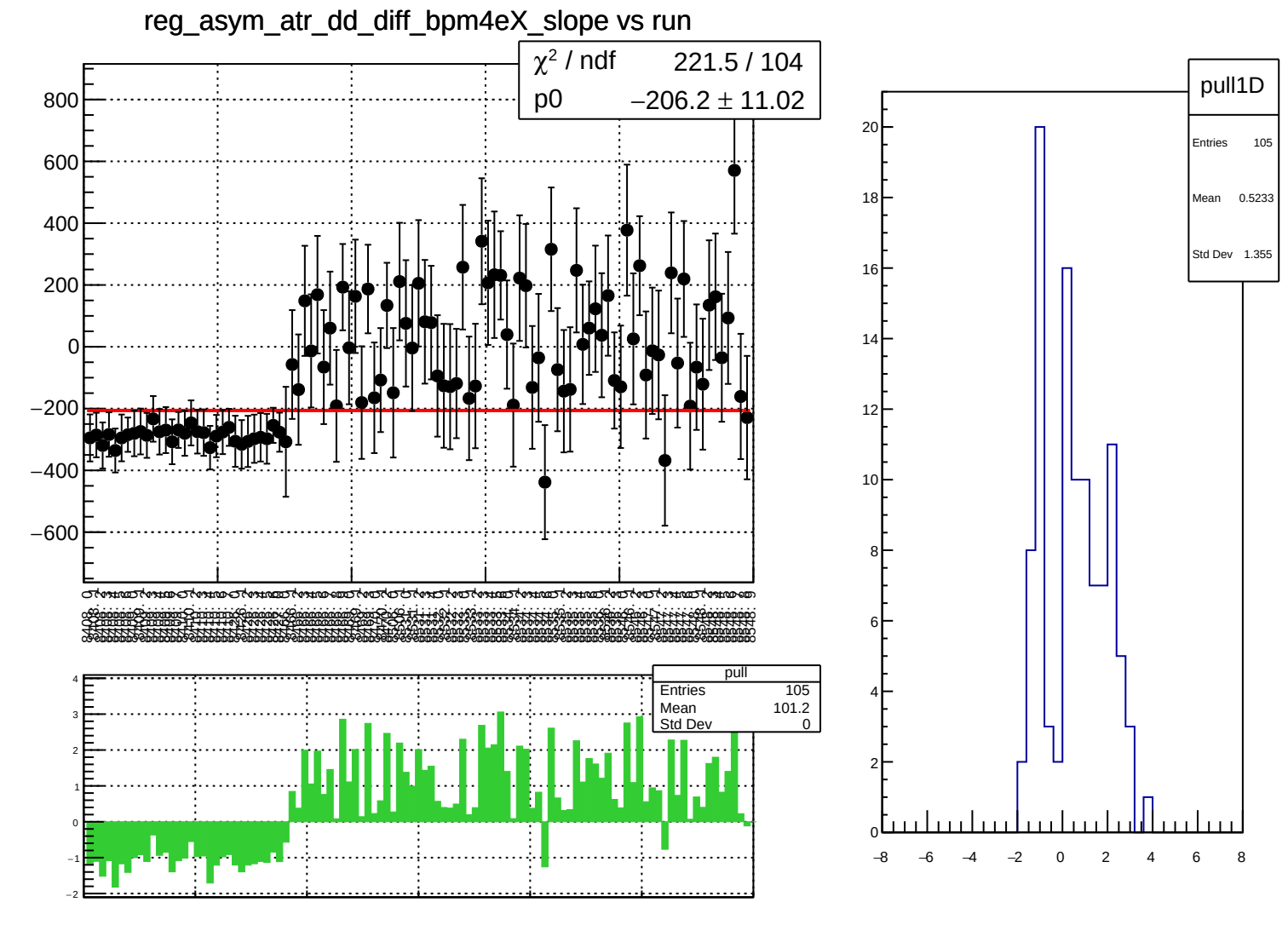
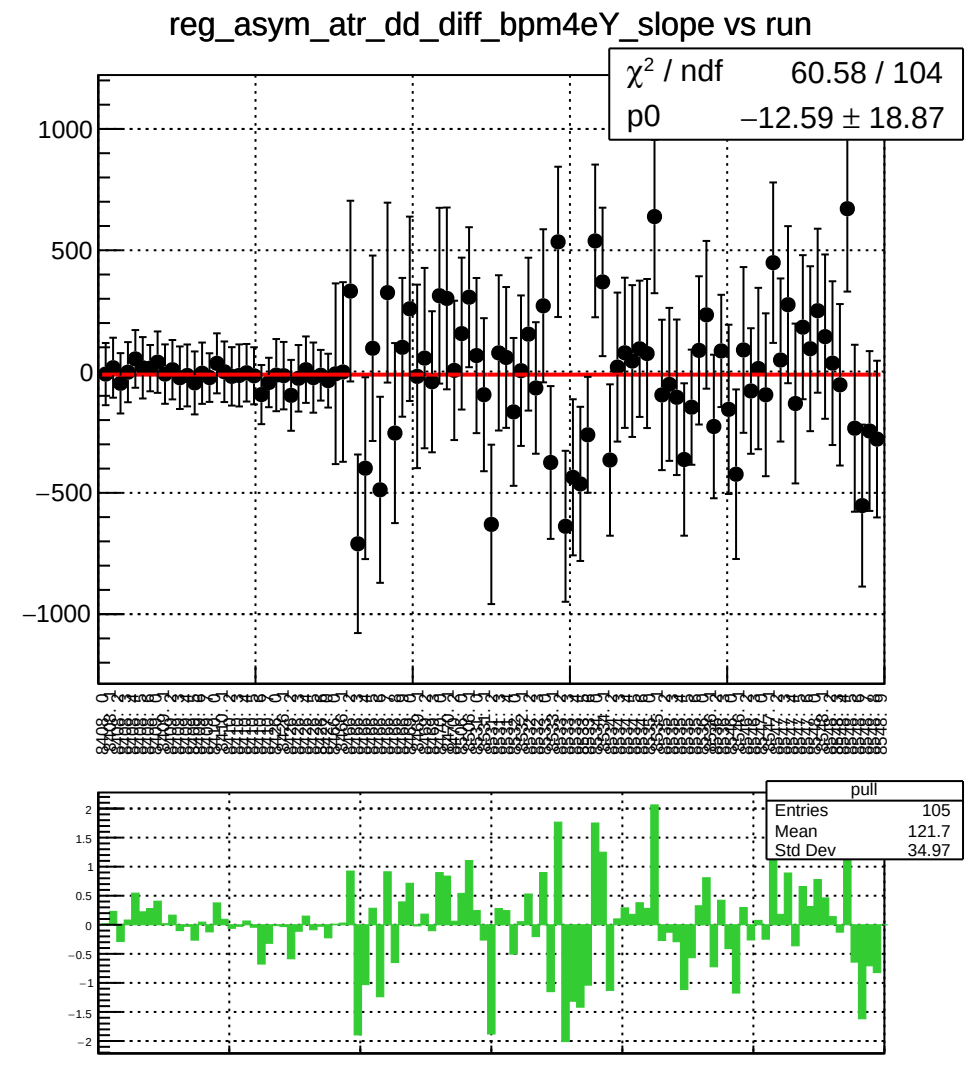
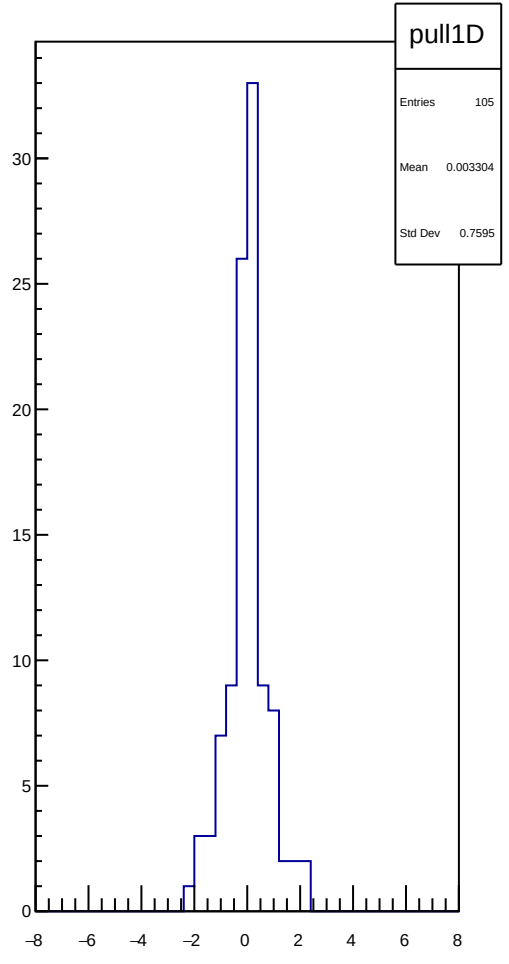
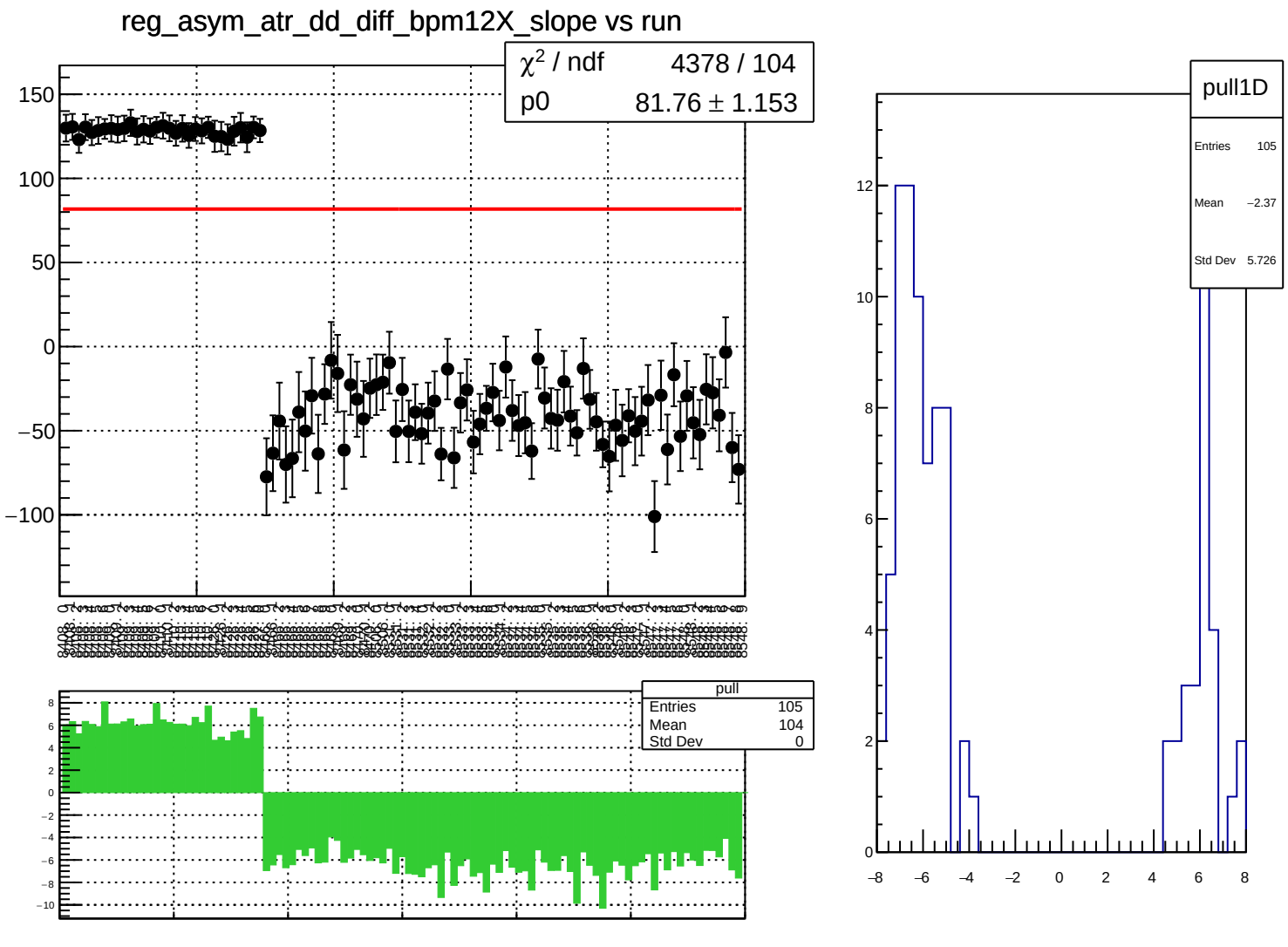
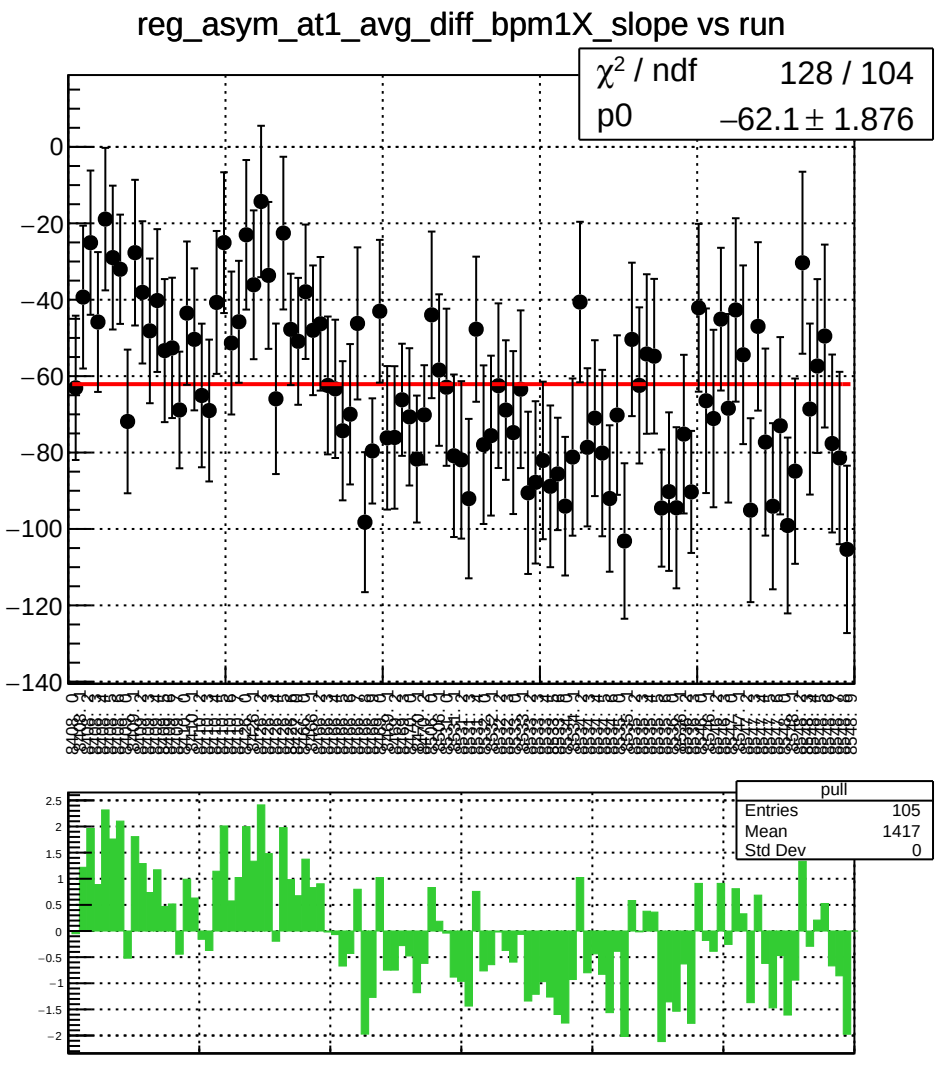
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

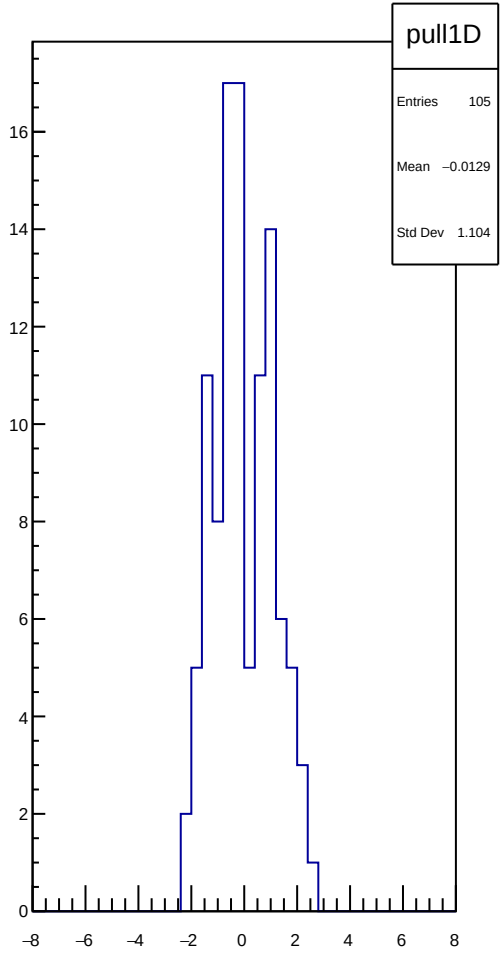

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 221.5 / 104
p0 −206.2 ± 11.02
800
600
400
200
0
−200
−400
−600
pull
Entries 105
Mean 101.2
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.5233
Std Dev 1.355
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

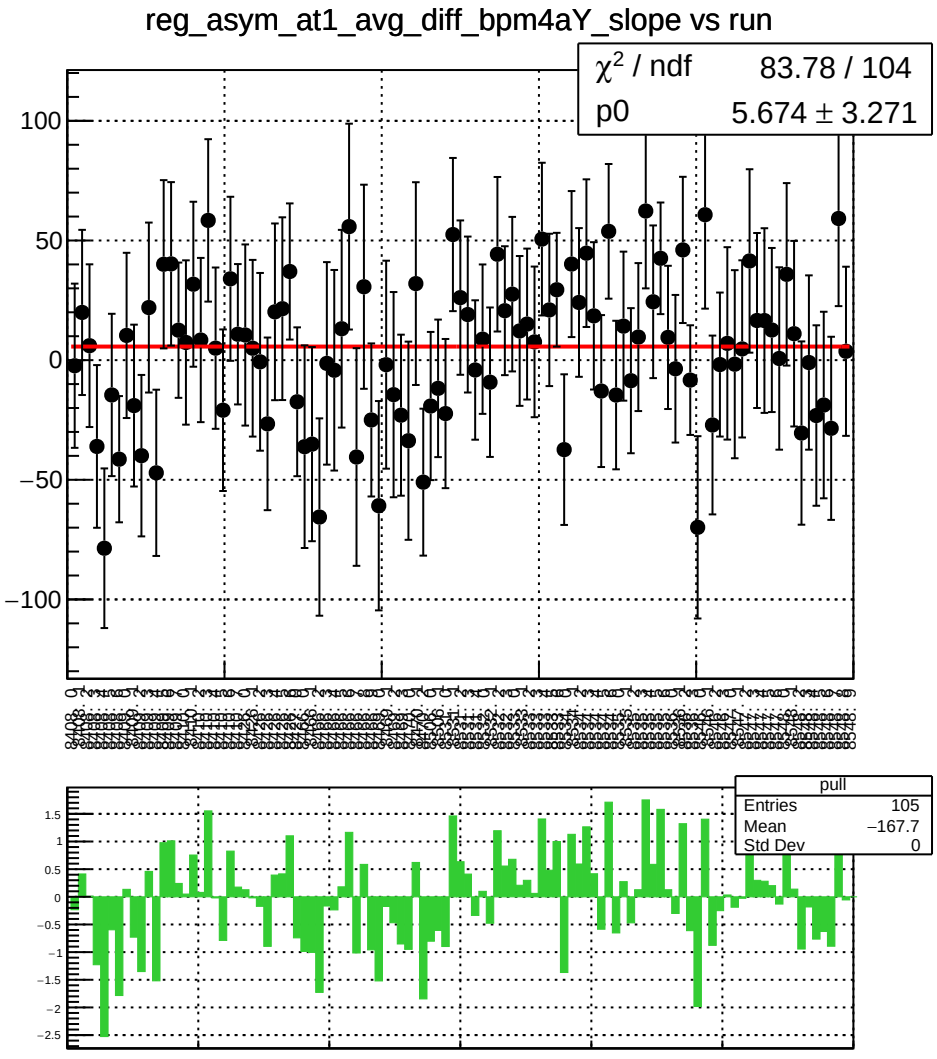

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 60.58 / 104
p0 −12.59 ± 18.87
1000
500
0
−500
−1000
pull
Entries 105
Mean 121.7
Std Dev 34.97
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

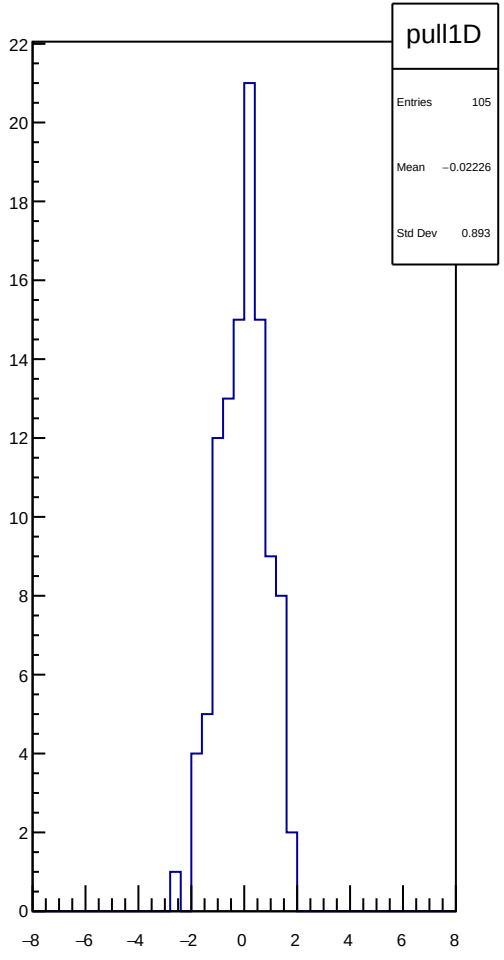

pull1D
Entries 105
Mean 0.003304
Std Dev 0.7595
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

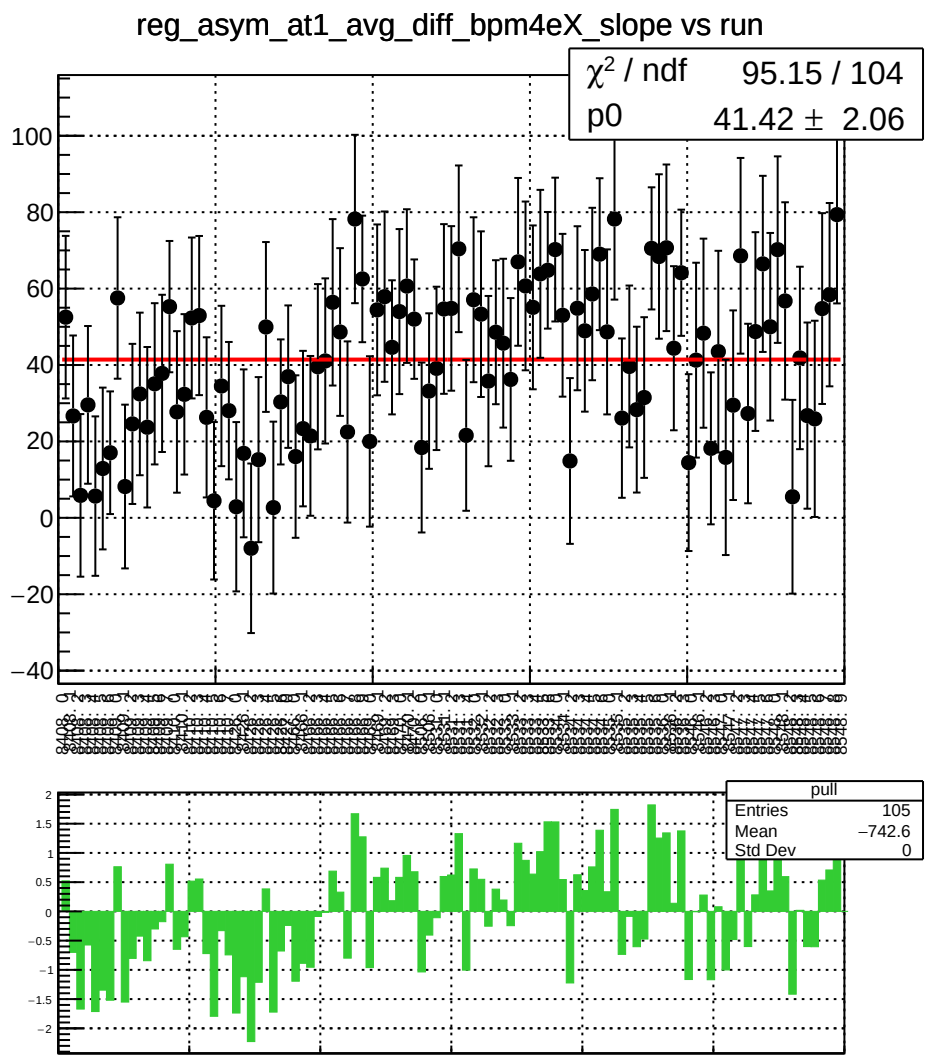

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 4378 / 104
p0 81.76 ± 1.153
150
100
50
0
−50
−100
pull
Entries 105
Mean 104
Std Dev 0
8
6
4
2
0
−2
−4
−6
−8
−10
pull1D
Entries 105
Mean −2.37
Std Dev 5.726
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

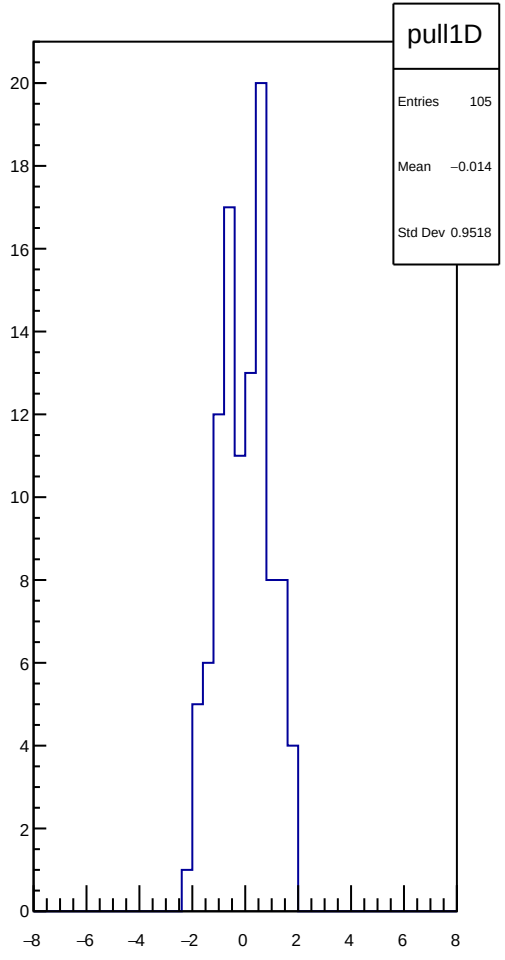

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 128 / 104
p0 −62.1 ± 1.876
0
−20
−40
−60
−80
−100
−120
−140
pull
Entries 105
Mean 1417
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

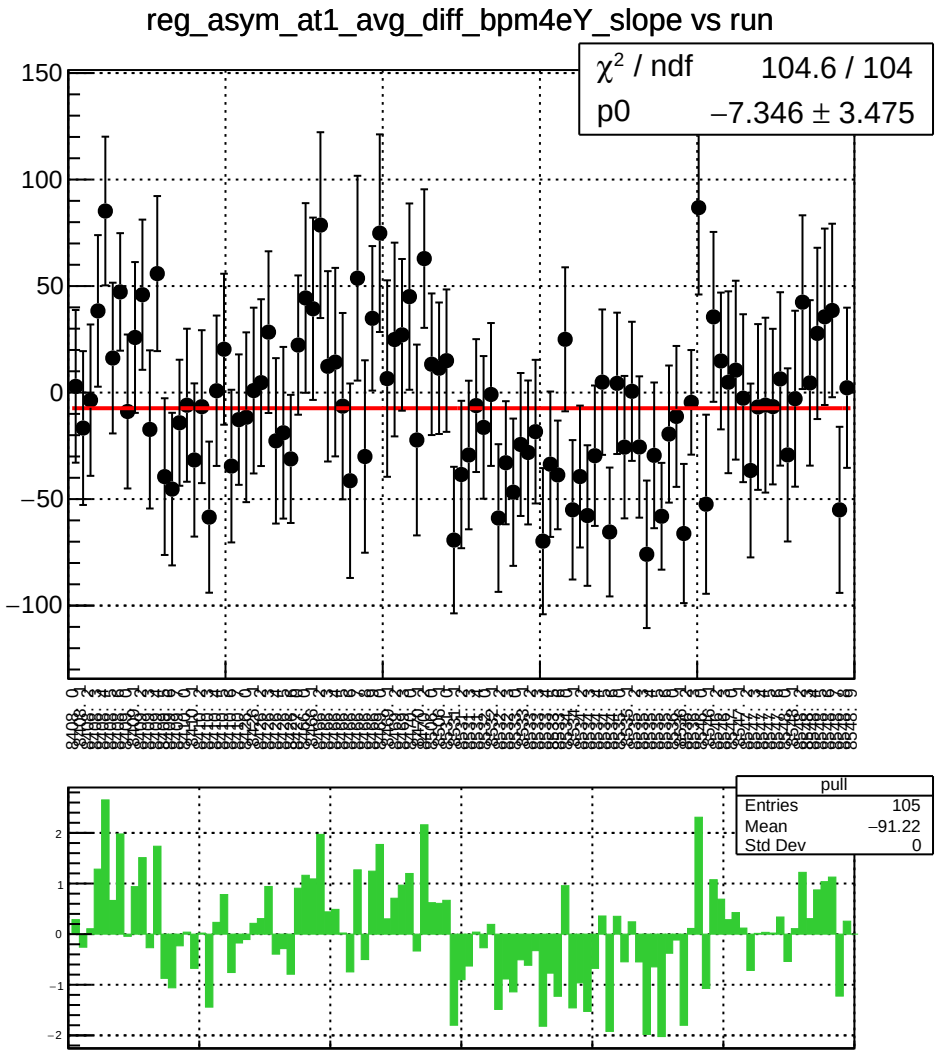

pull1D
Entries 105
Mean −0.0129
Std Dev 1.104
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

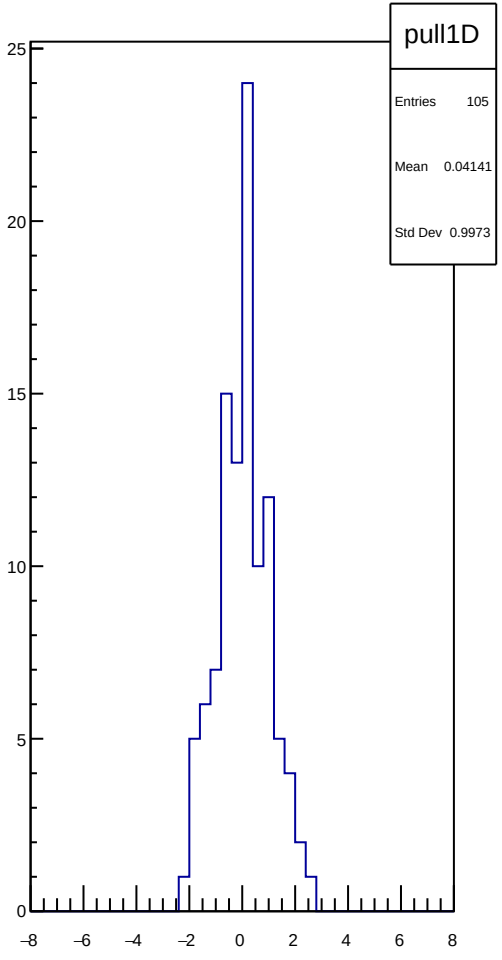

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 83.78 / 104
p0 5.674 ± 3.271
100
50
0
−50
−100
pull
Entries 105
Mean −167.7
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

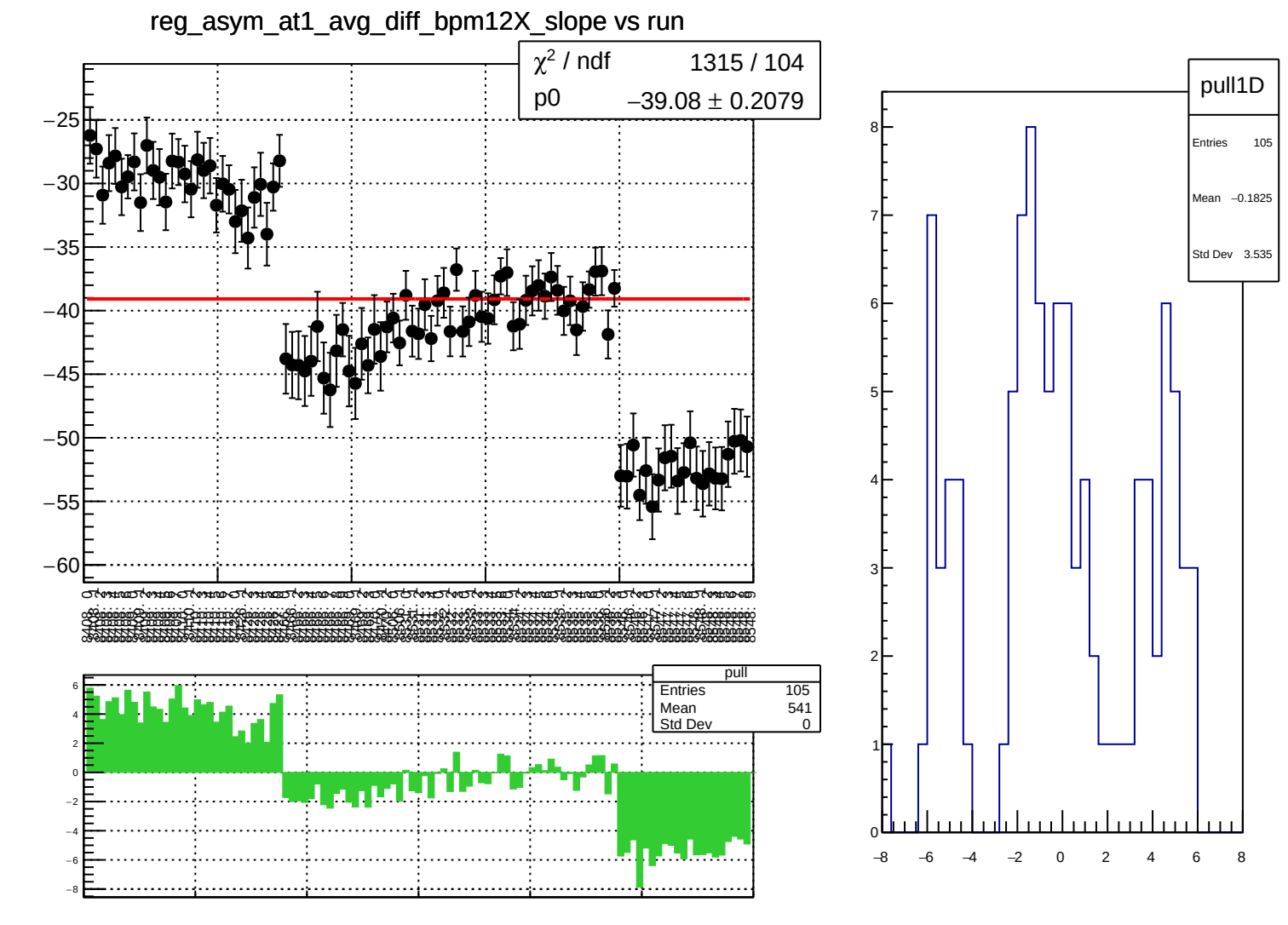

pull1D
Entries 105
Mean −0.02226
Std Dev 0.893
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

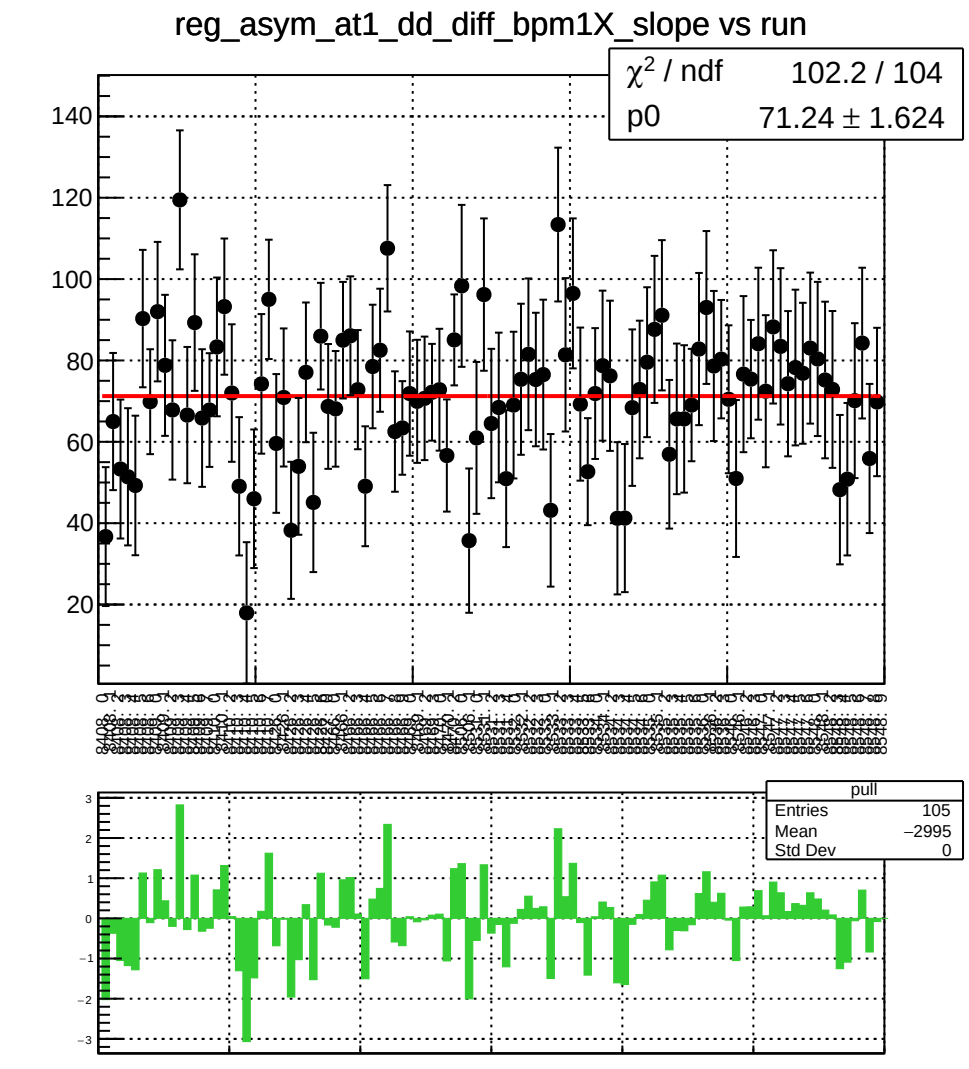

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 95.15 / 104
p0 41.42 ± 2.06
pull
Entries 105
Mean −742.6
Std Dev 0

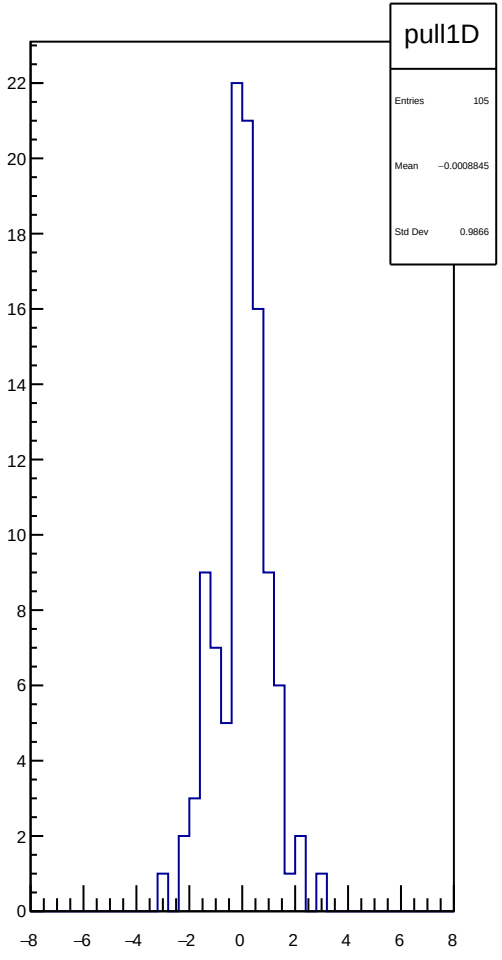

pull1D
Entries 105
Mean −0.014
Std Dev 0.9518

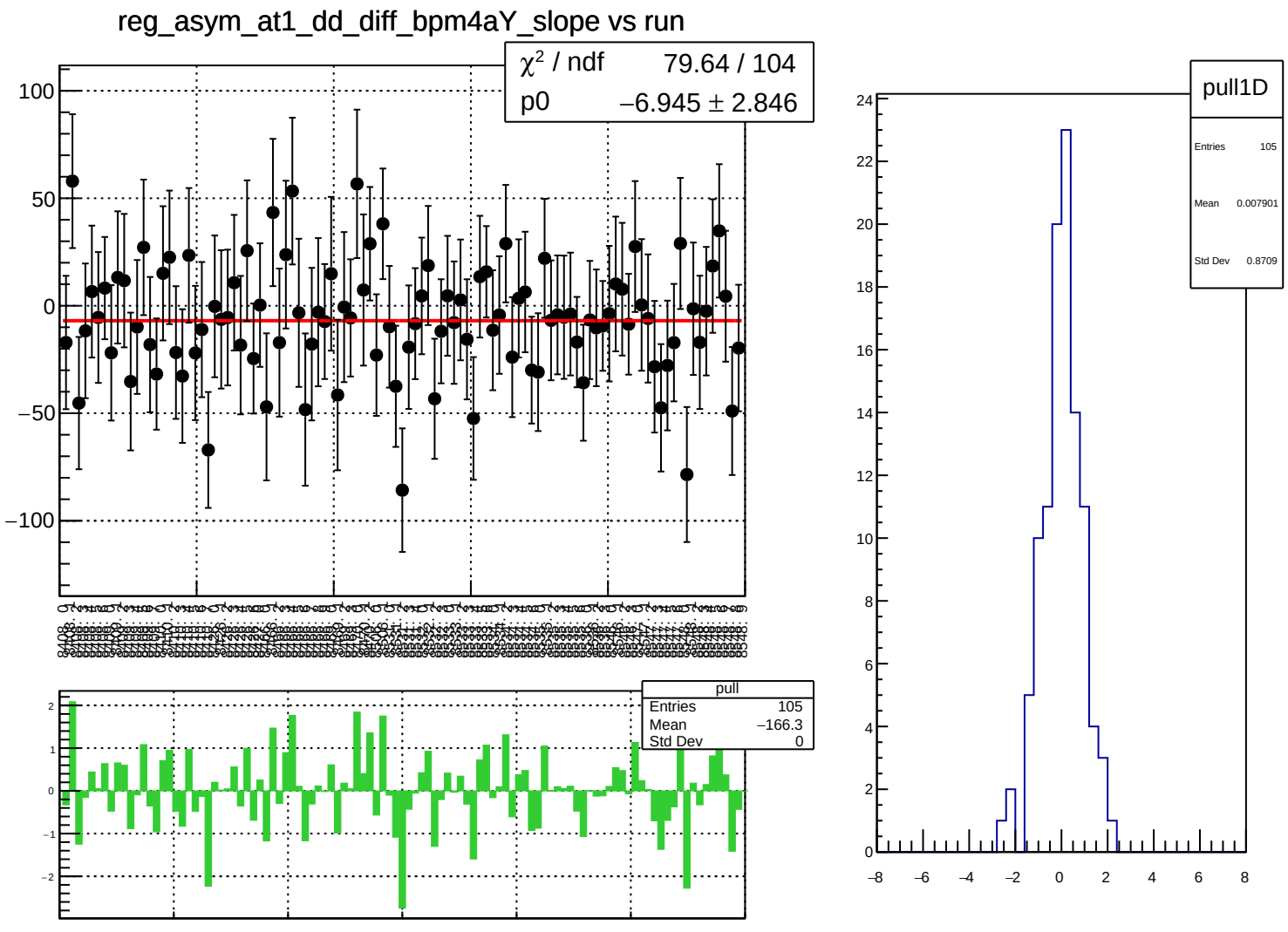

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 104.6 / 104
p0 −7.346 ± 3.475
150
100
50
0
−50
−100
pull
Entries 105
Mean −91.22
Std Dev 0
2
1
0
−1
−2

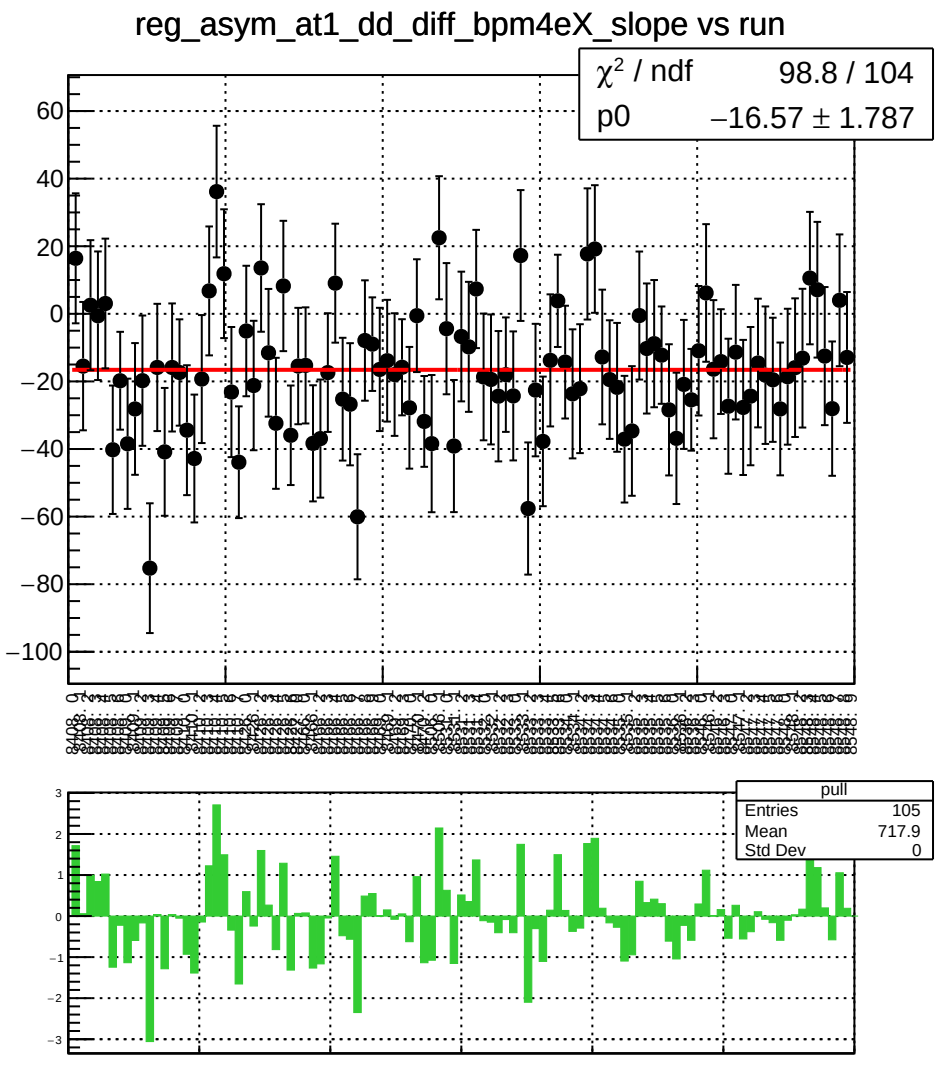

pull1D
Entries 105
Mean 0.04141
Std Dev 0.9973
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

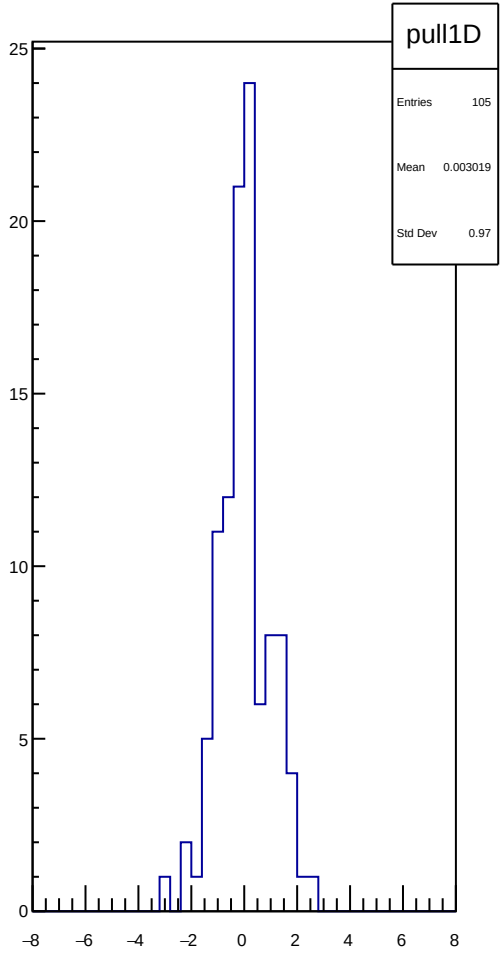

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 1315 / 104
p0 −39.08 ± 0.2079
pull
Entries 105
Mean 541
Std Dev 0
pull1D
Entries 105
Mean −0.1825
Std Dev 3.535

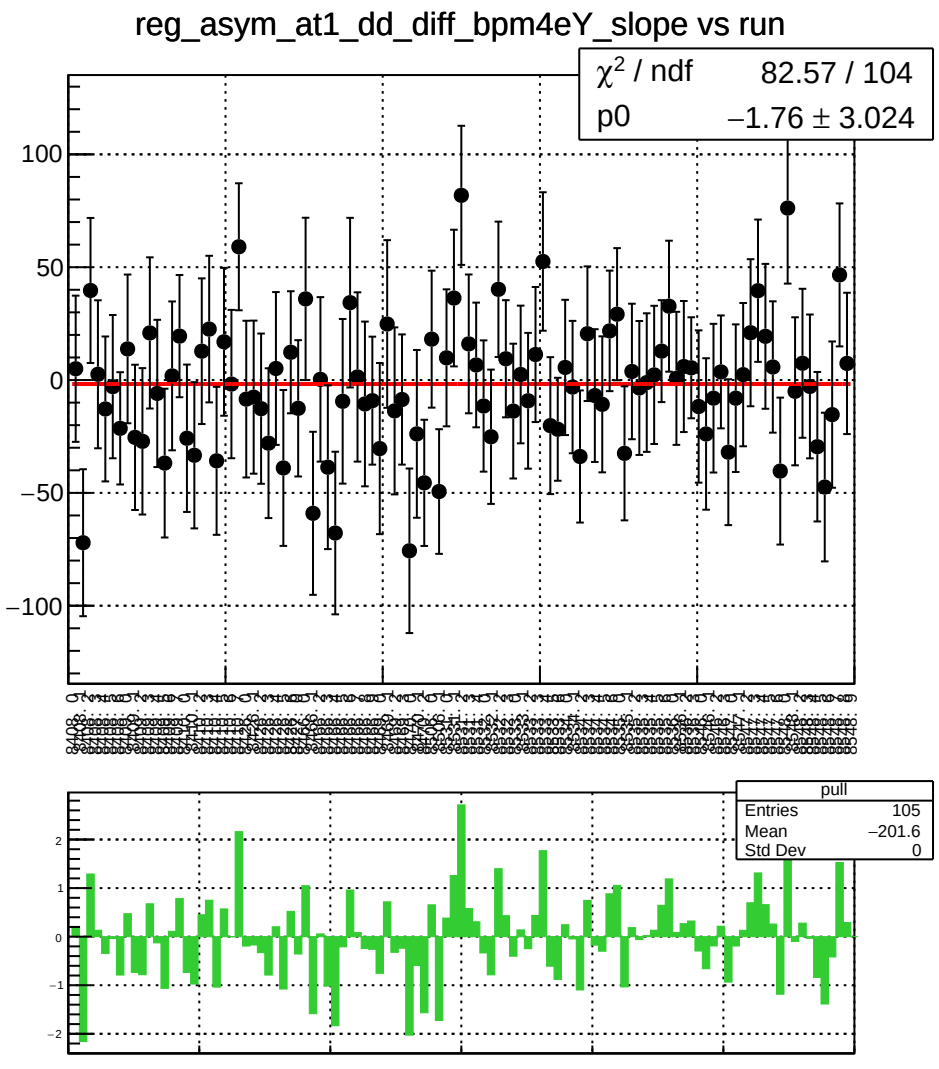

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 102.2 / 104
p0 71.24 ± 1.624
140
120
100
80
60
40
20
pull
Entries 105
Mean −2995
Std Dev 0
3
2
1
0
−1
−2
−3

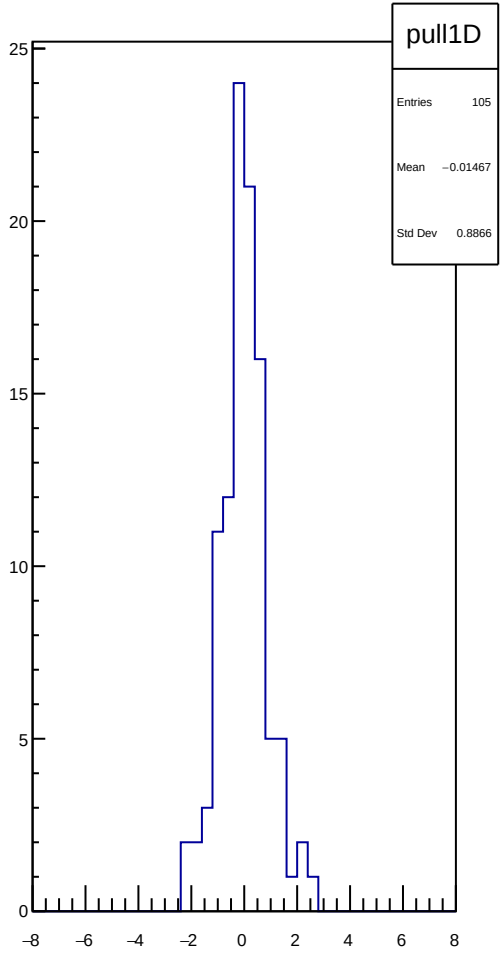

pull1D
Entries 105
Mean −0.0008845
Std Dev 0.9866
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

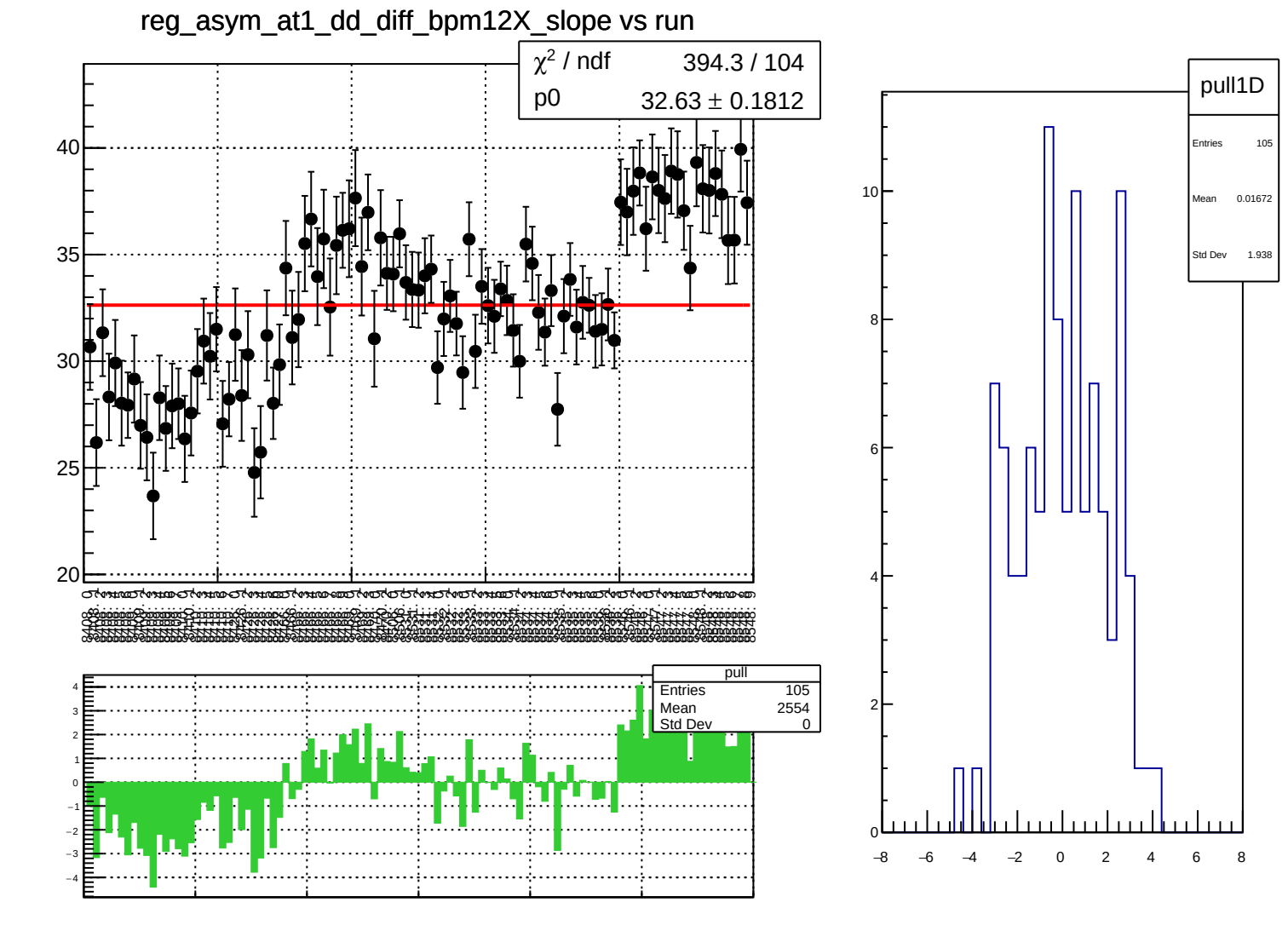

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 79.64 / 104
p0 −6.945 ± 2.846
100
50
0
−50
−100
pull
Entries 105
Mean −166.3
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.007901
Std Dev 0.8709
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

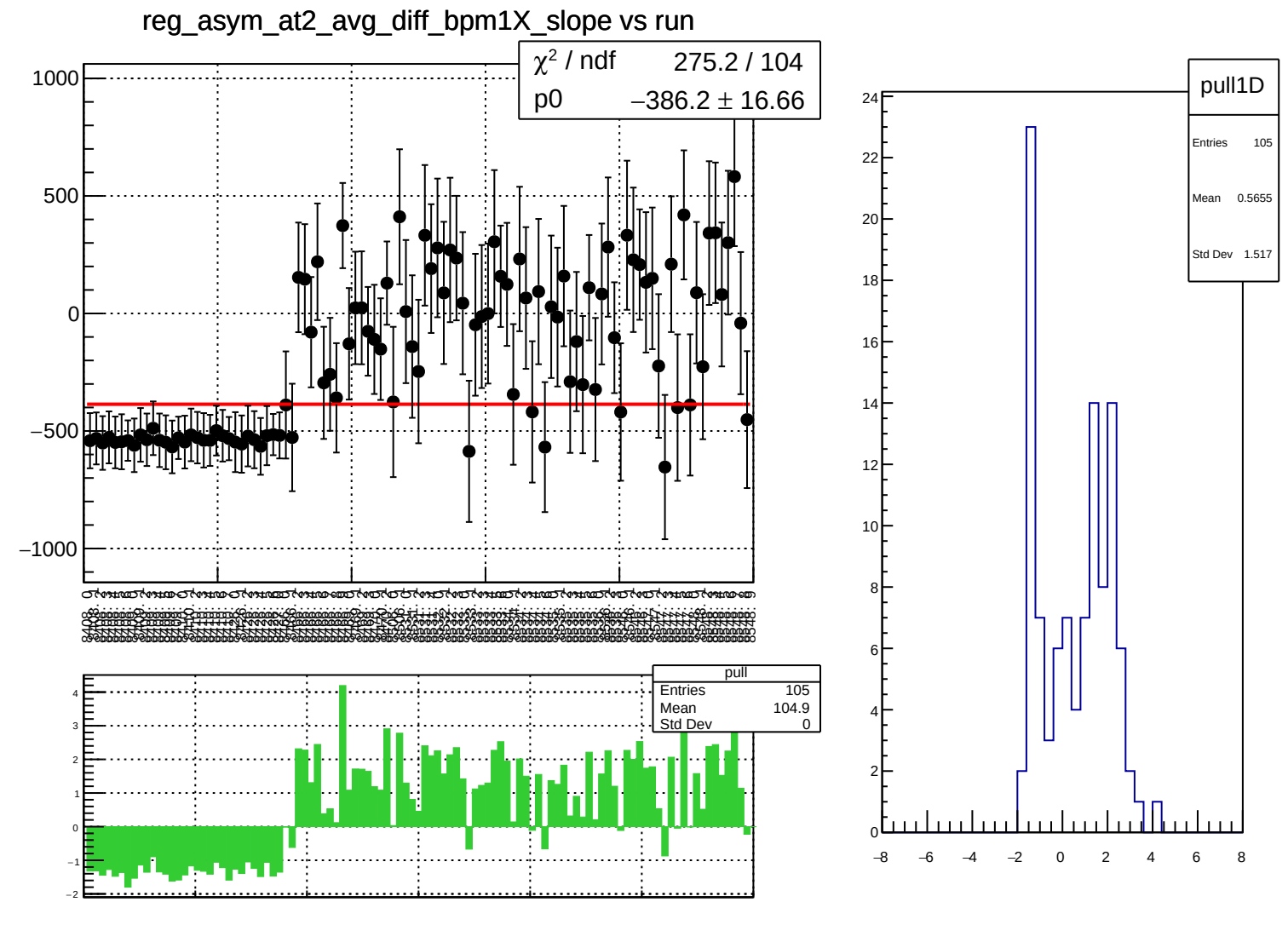

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 98.8 / 104
p0 −16.57 ± 1.787
pull
Entries 105
Mean 717.9
Std Dev 0

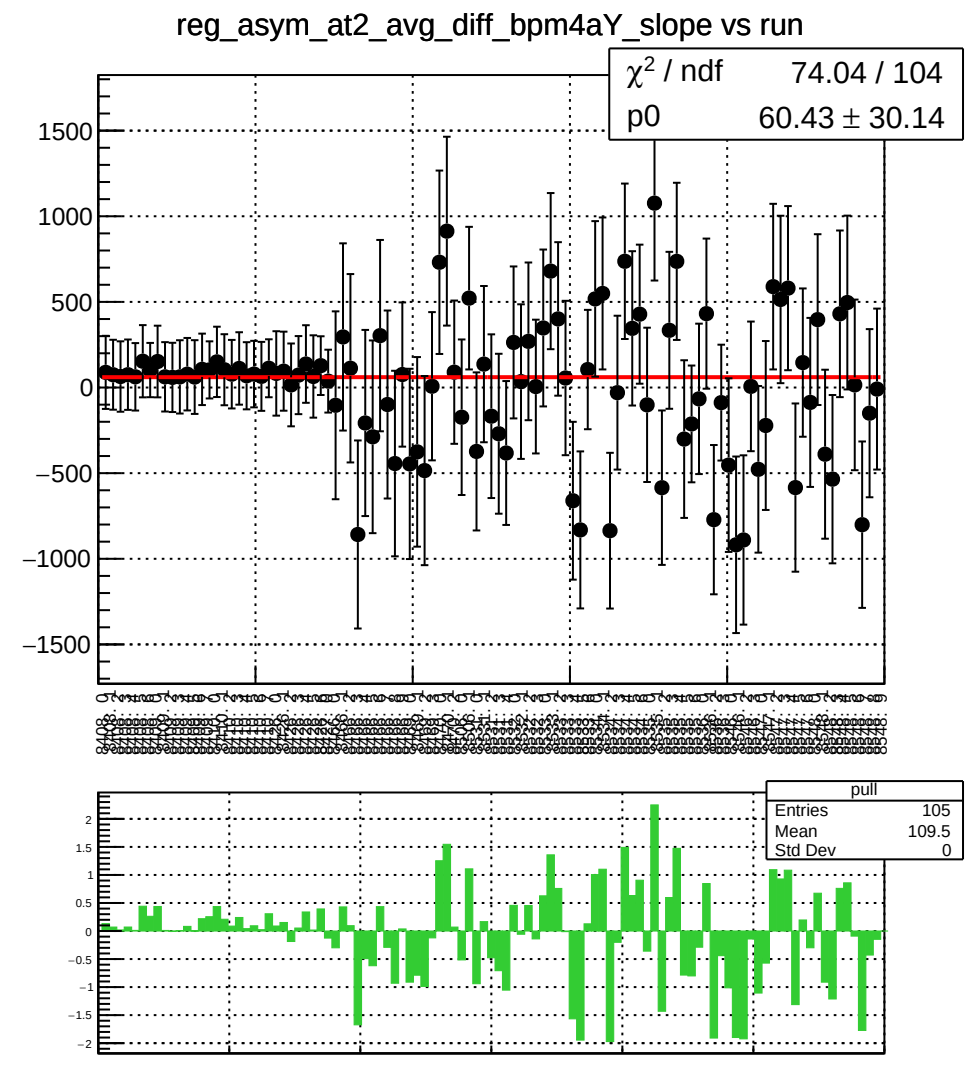

pull1D
Entries 105
Mean 0.003019
Std Dev 0.97

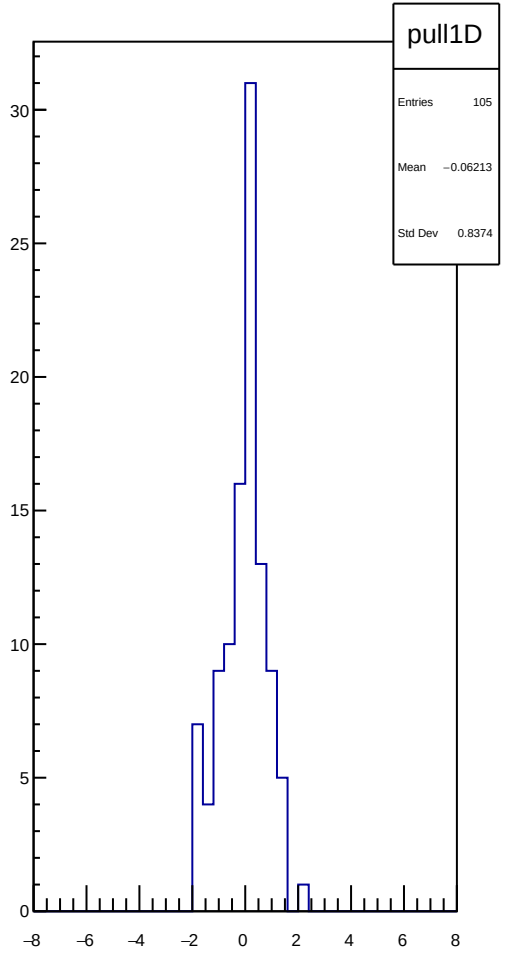

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 82.57 / 104
p0 −1.76 ± 3.024
100
50
0
−50
−100
pull
Entries 105
Mean −201.6
Std Dev 0
2
1
0
−1
−2

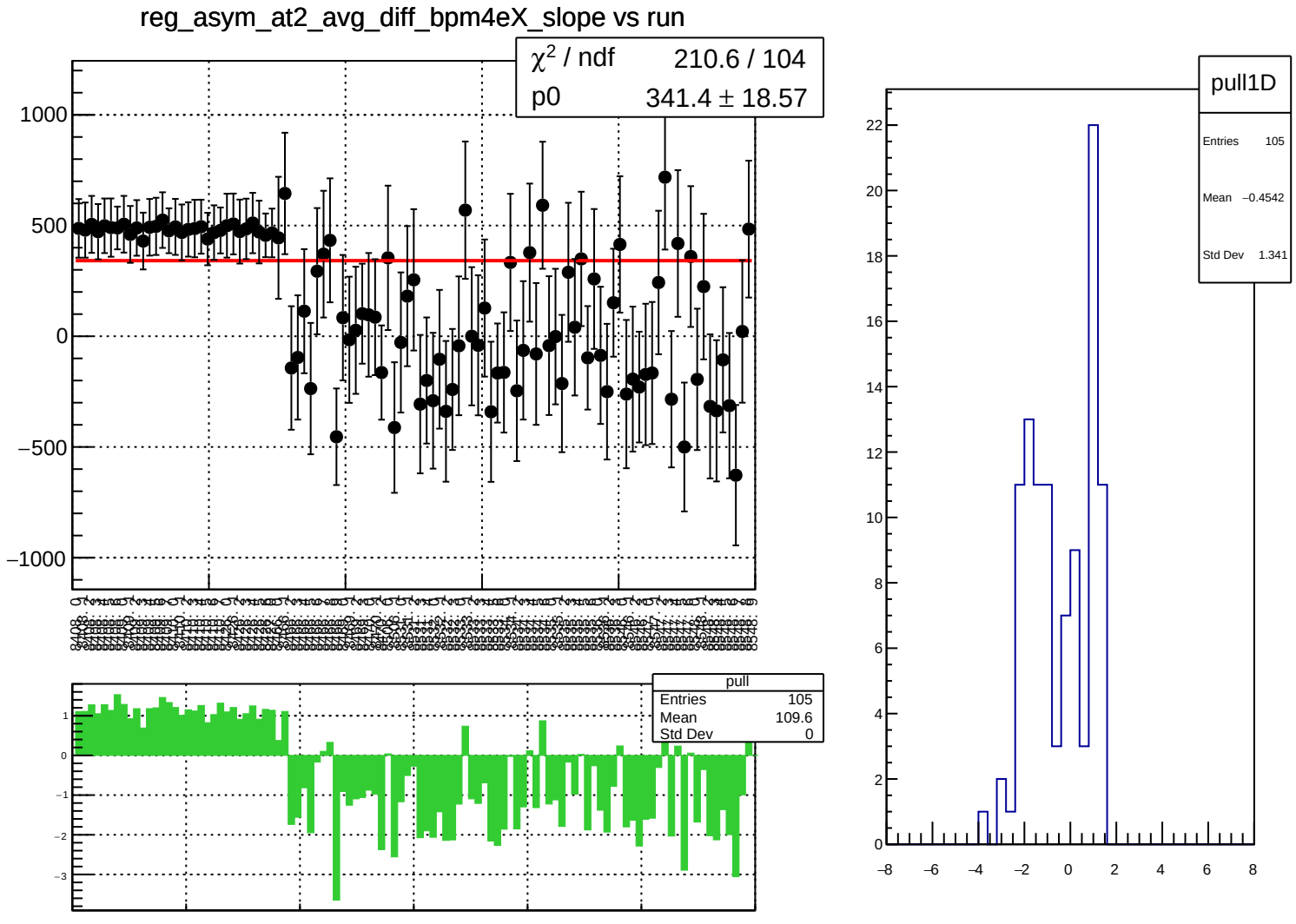

pull1D
Entries 105
Mean −0.01467
Std Dev 0.8866
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

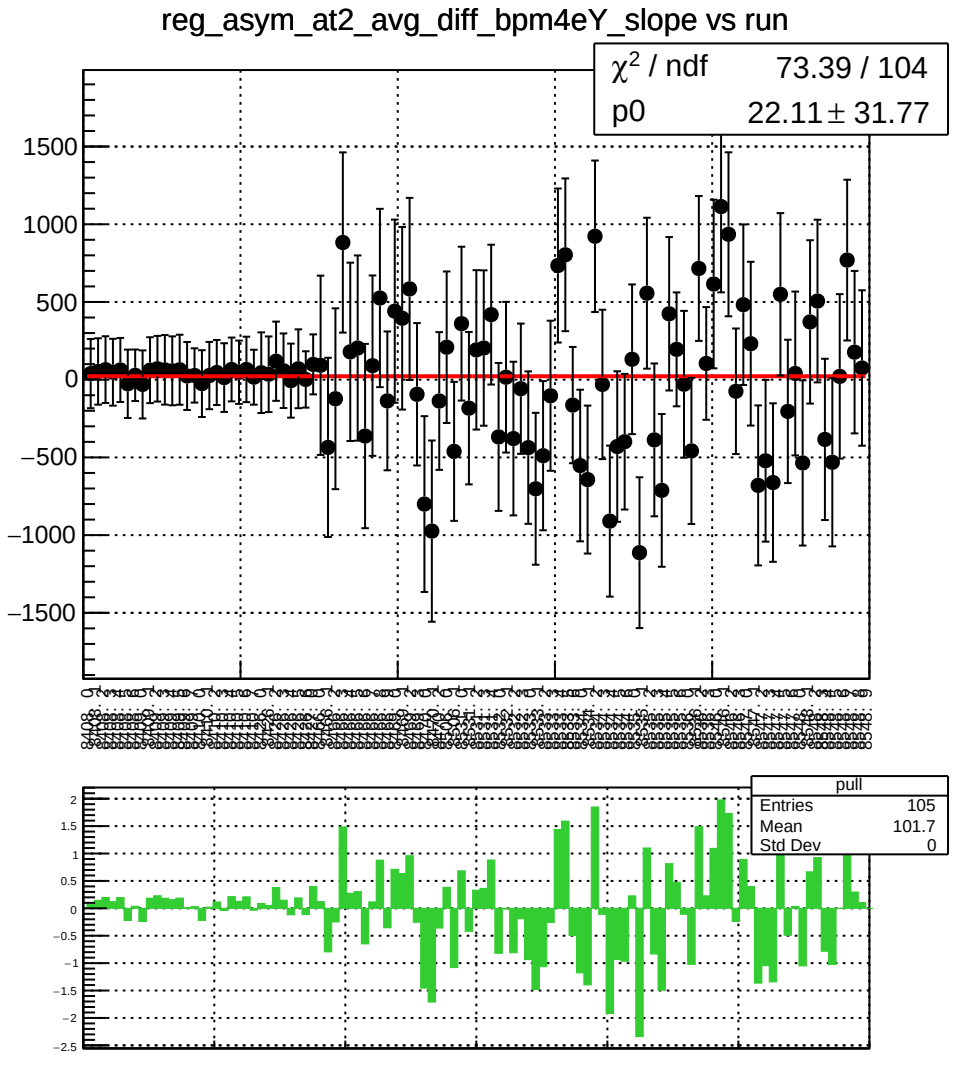

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 394.3 / 104
p0 32.63 ± 0.1812
pull
Entries 105
Mean 2554
Std Dev 0
pull1D
Entries 105
Mean 0.01672
Std Dev 1.938

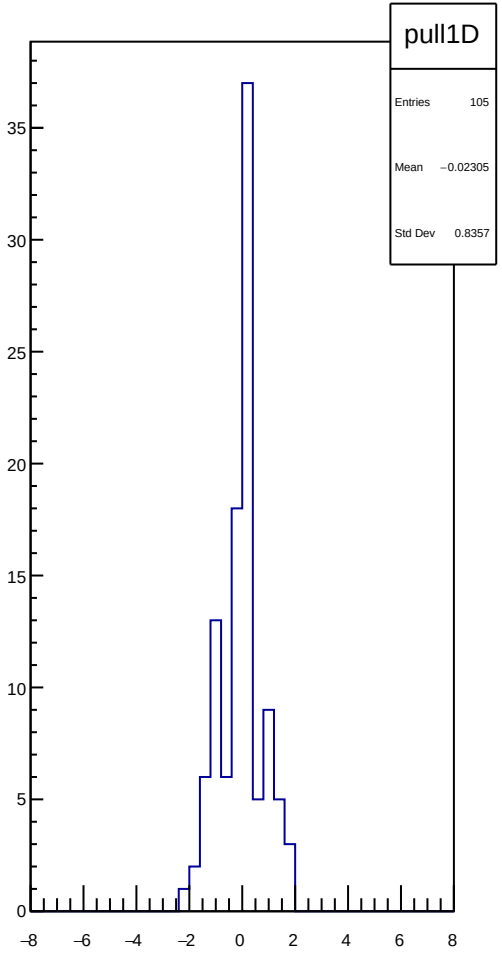

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 275.2 / 104
p0 −386.2 ± 16.66
1000
500
0
−500
−1000
pull
Entries 105
Mean 104.9
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.5655
Std Dev 1.517
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

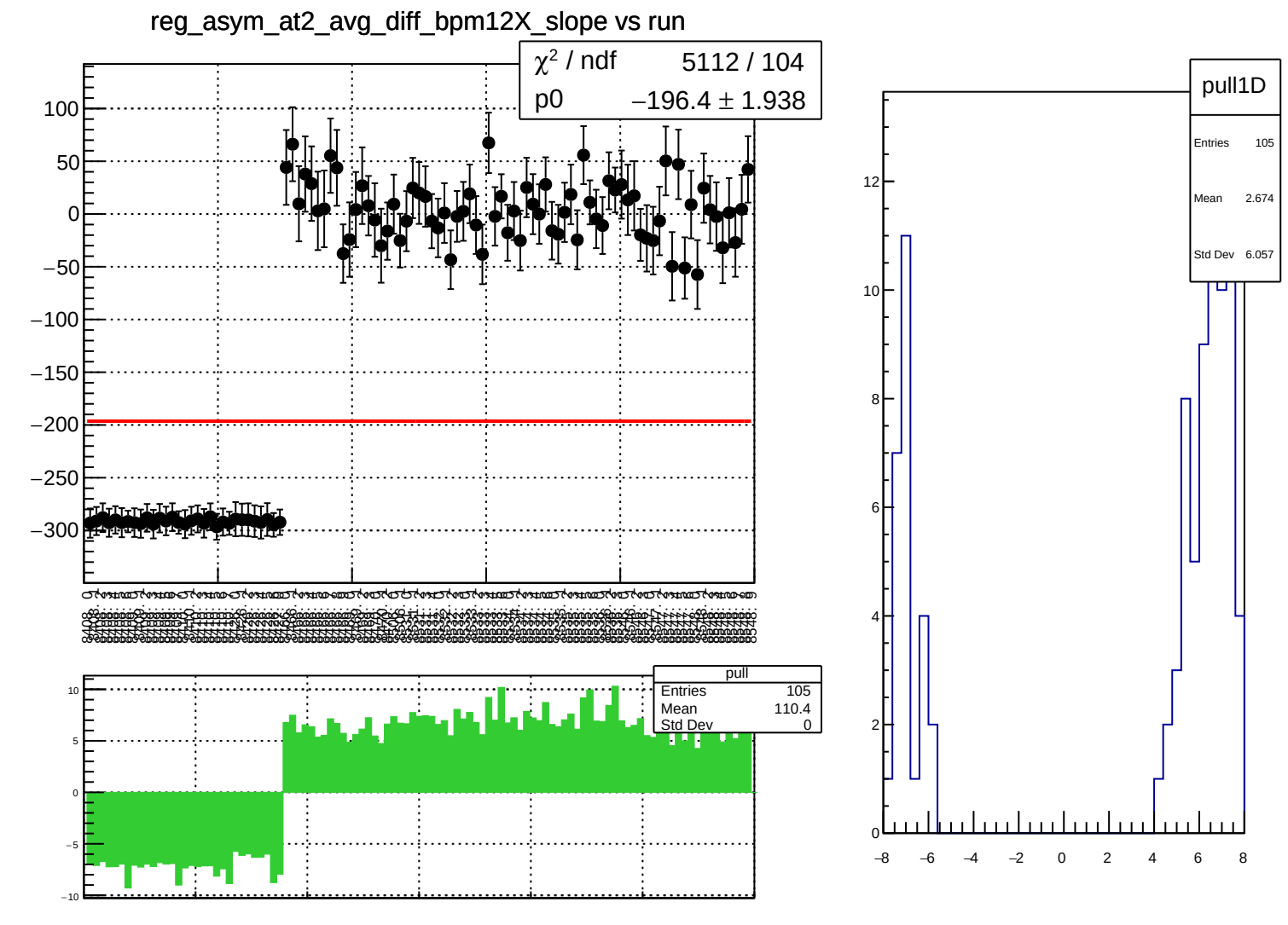

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 74.04 / 104
p0 60.43 ± 30.14
1500
1000
500
0
−500
−1000
−1500
pull
Entries 105
Mean 109.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

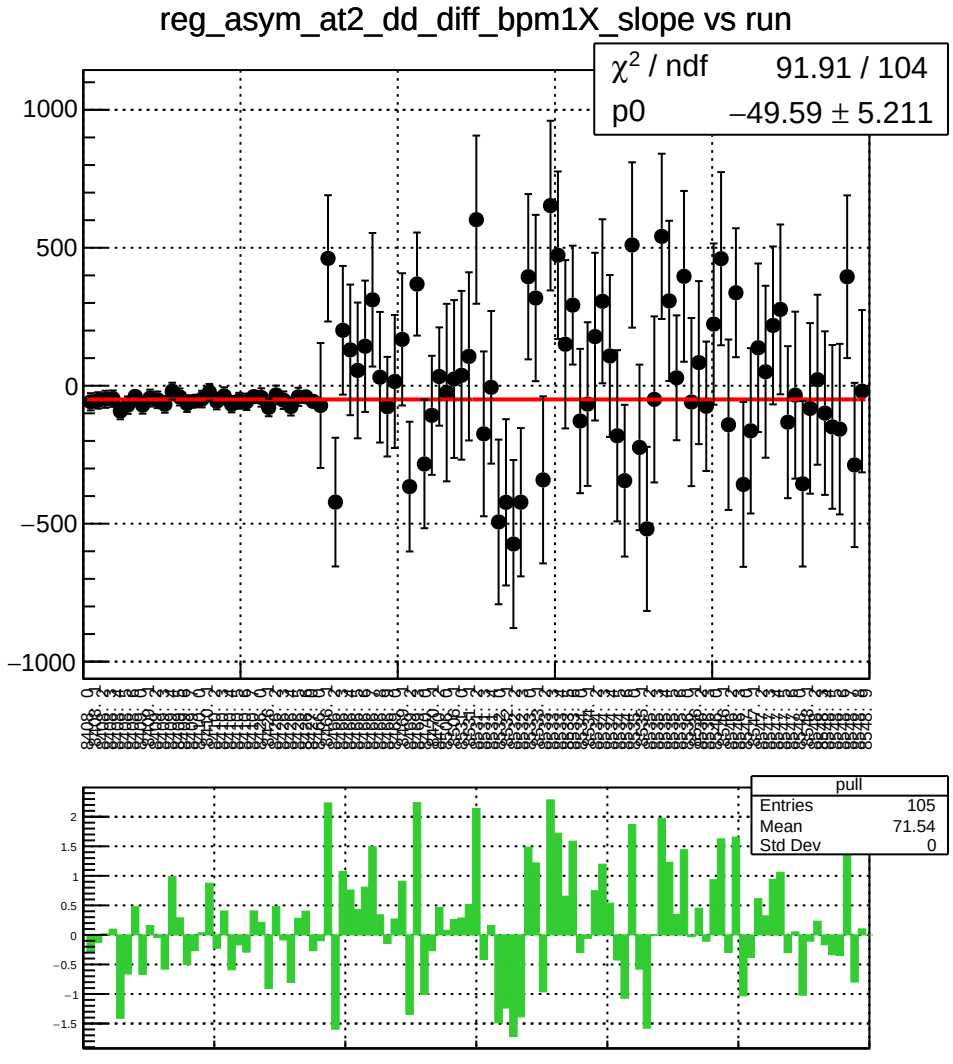

pull1D
Entries 105
Mean −0.06213
Std Dev 0.8374
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

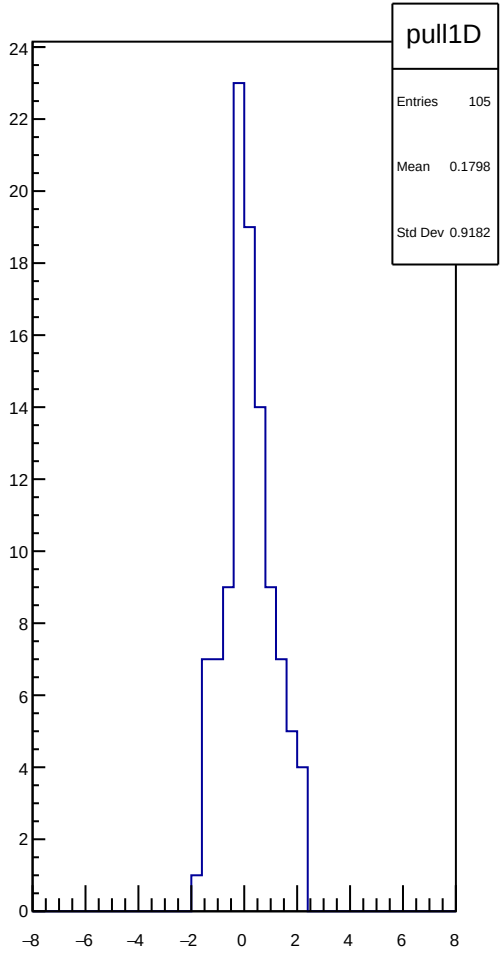

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 210.6 / 104
p0 341.4 ± 18.57
1000
500
0
−500
−1000
pull
Entries 105
Mean 109.6
Std Dev 0
pull1D
Entries 105
Mean −0.4542
Std Dev 1.341
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

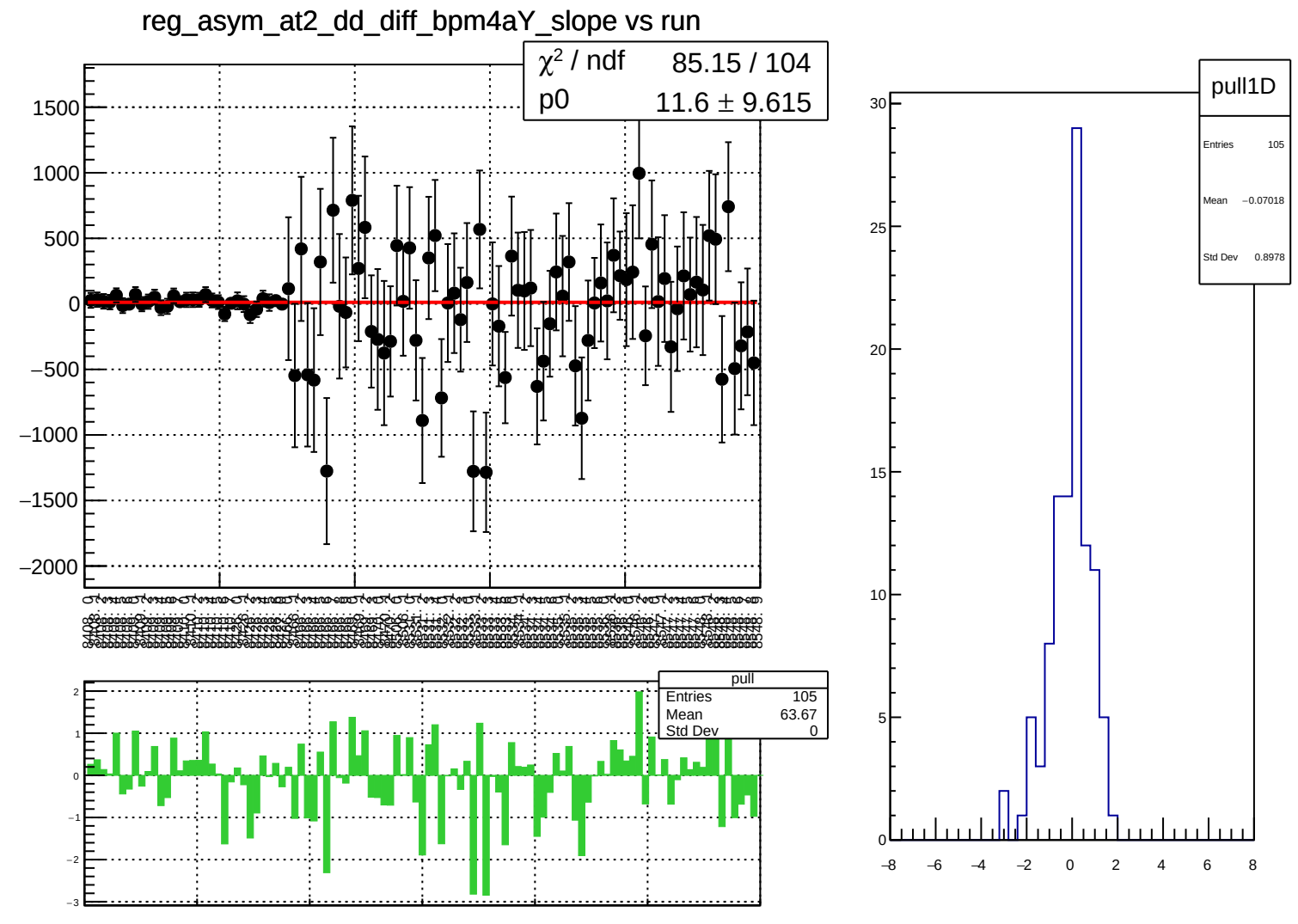

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 73.39 / 104
p0 22.11 ± 31.77
1500
1000
500
0
−500
−1000
−1500
pull
Entries 105
Mean 101.7
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

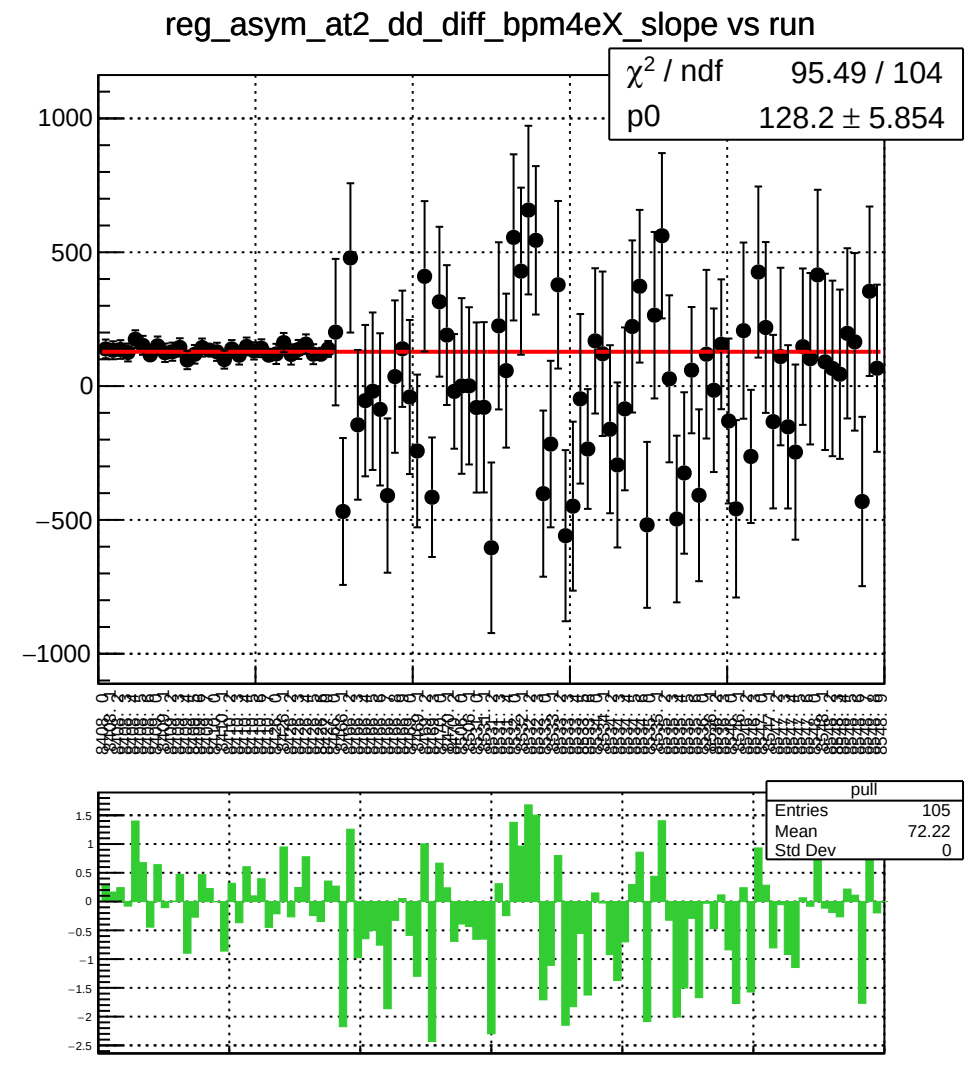

pull1D
Entries 105
Mean −0.02305
Std Dev 0.8357
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

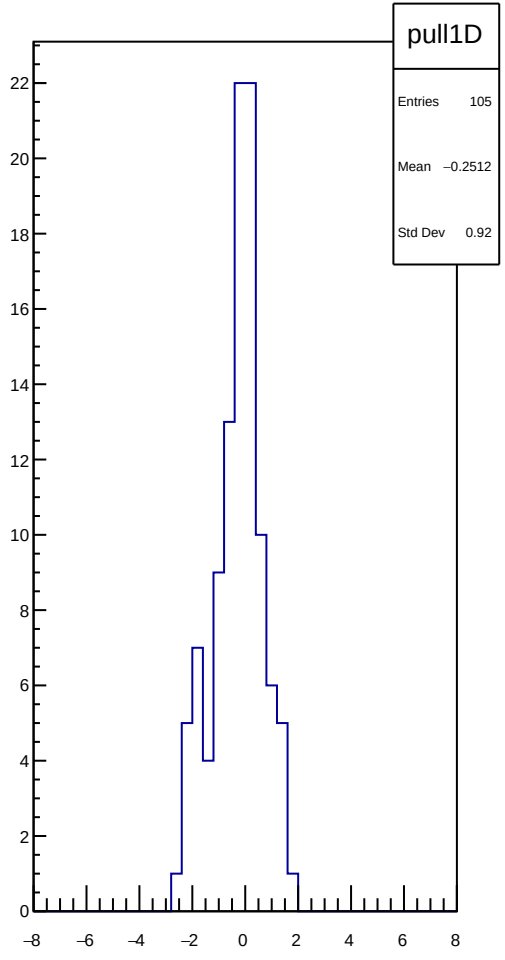

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 5112 / 104
p0 −196.4 ± 1.938
100
50
0
−50
−100
−150
−200
−250
−300
pull
Entries 105
Mean 110.4
Std Dev 0
10
5
0
−5
−10
pull1D
Entries 105
Mean 2.674
Std Dev 6.057
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

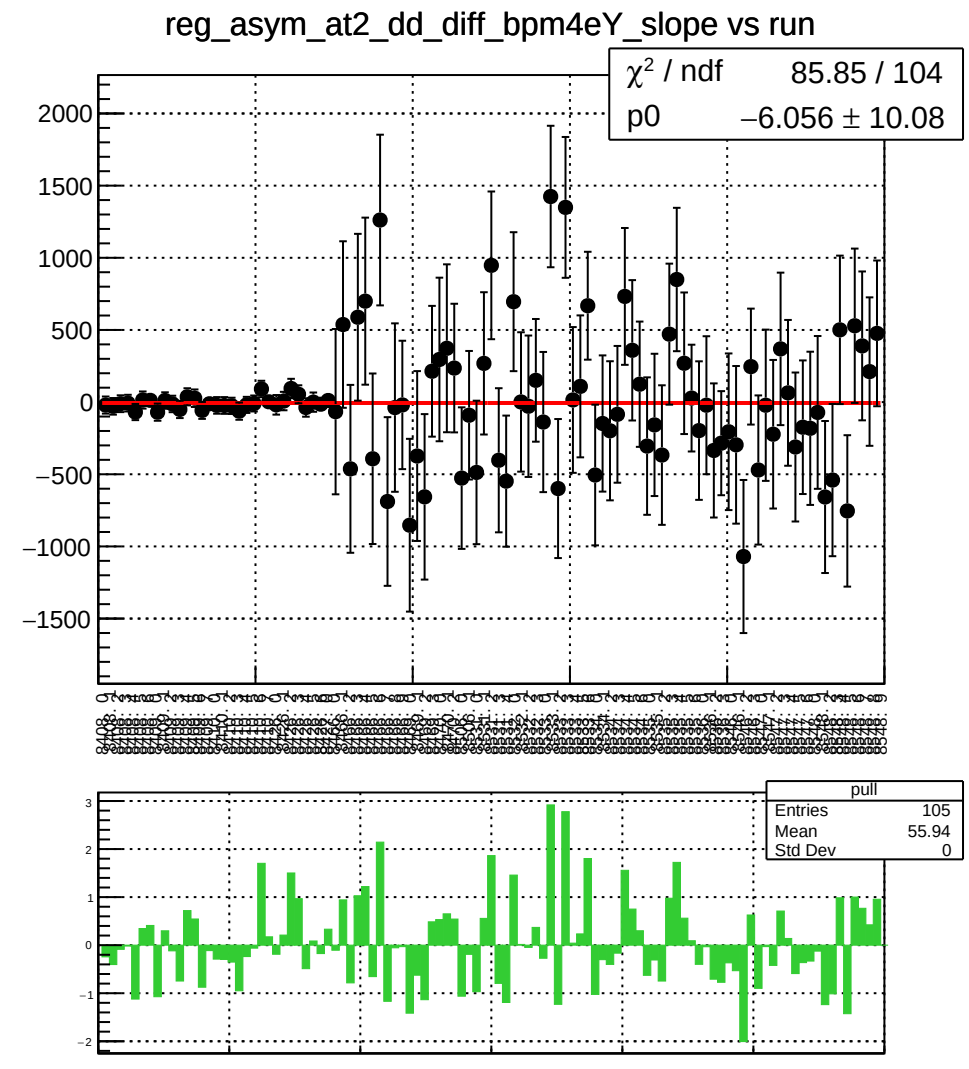

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 91.91 / 104
p0 −49.59 ± 5.211
1000
500
0
−500
−1000
pull
Entries 105
Mean 71.54
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

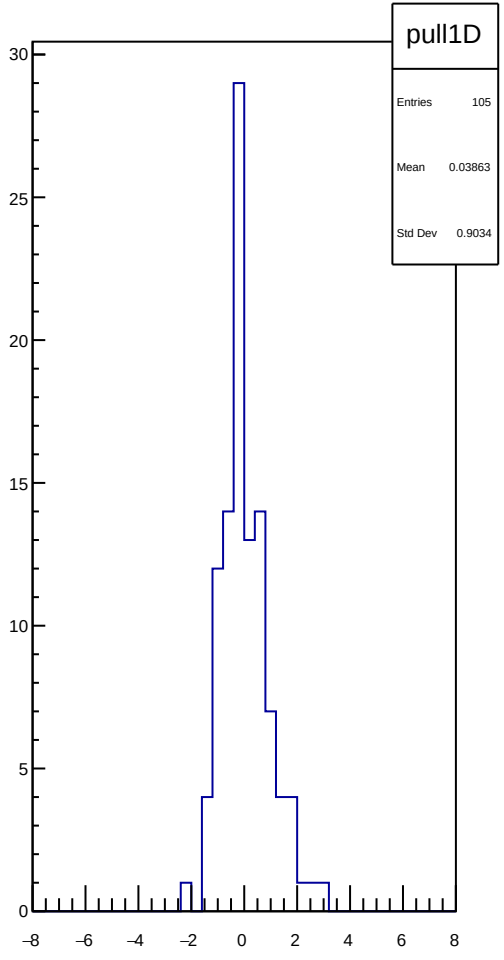

pull1D
Entries 105
Mean 0.1798
Std Dev 0.9182
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 85.15 / 104
p0 11.6 ± 9.615
pull
Entries 105
Mean 63.67
Std Dev 0
pull1D
Entries 105
Mean −0.07018
Std Dev 0.8978


reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 95.49 / 104
p0 128.2 ± 5.854
1000
500
0
−500
−1000
pull
Entries 105
Mean 72.22
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 105
Mean −0.2512
Std Dev 0.92
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 85.85 / 104
p0 −6.056 ± 10.08
2000
1500
1000
500
0
−500
−1000
−1500
pull
Entries 105
Mean 55.94
Std Dev 0
3
2
1
0
−1
−2


pull1D
Entries 105
Mean 0.03863
Std Dev 0.9034
30
25
20
15
10
5
0
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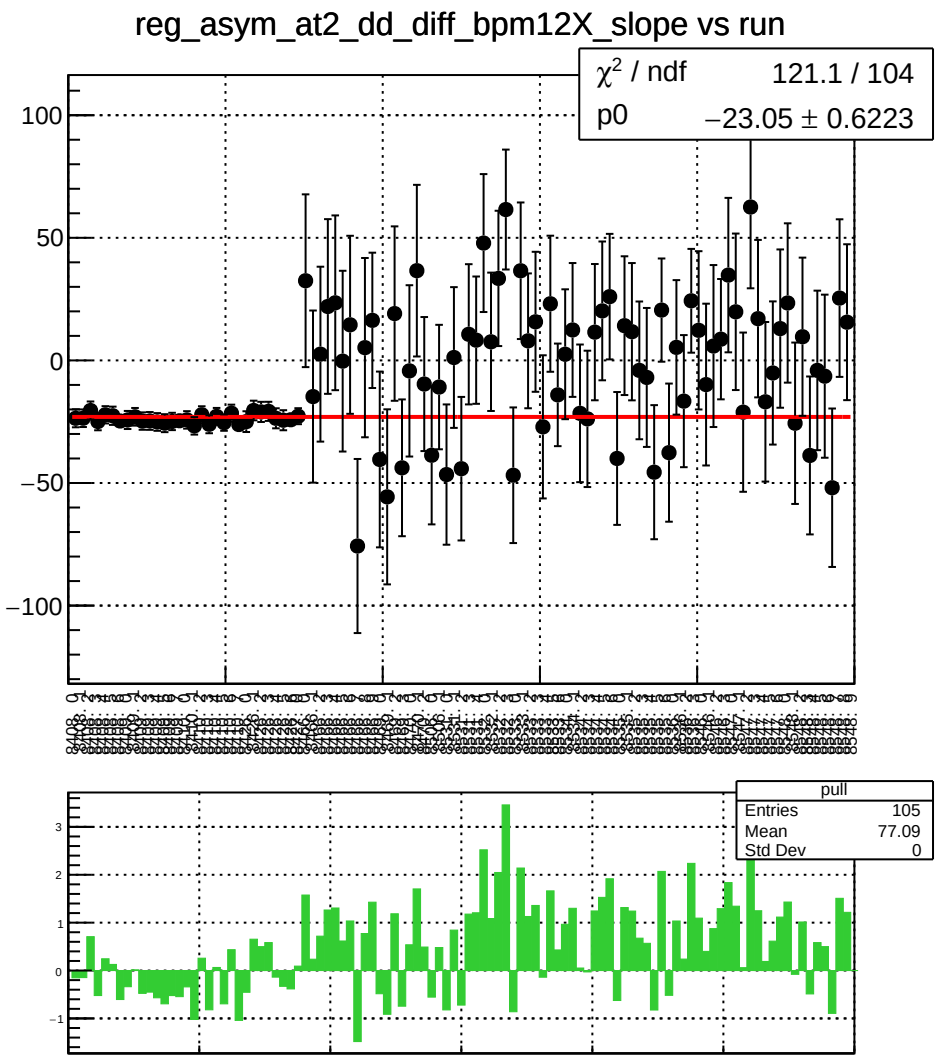
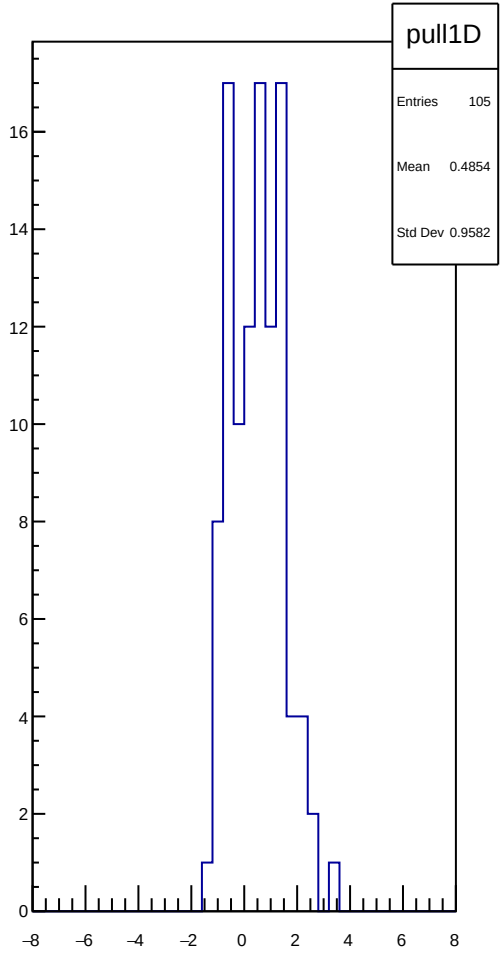
−6
−4
−2
0
2
4
6
8


reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 121.1 / 104
p0 −23.05 ± 0.6223
100
50
0
−50
−100
pull
Entries 105
Mean 77.09
Std Dev 0
3
2
1
0
−1


pull1D
Entries 105
Mean 0.4854
Std Dev 0.9582
16
14
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10
8
6
4
2
0
−8
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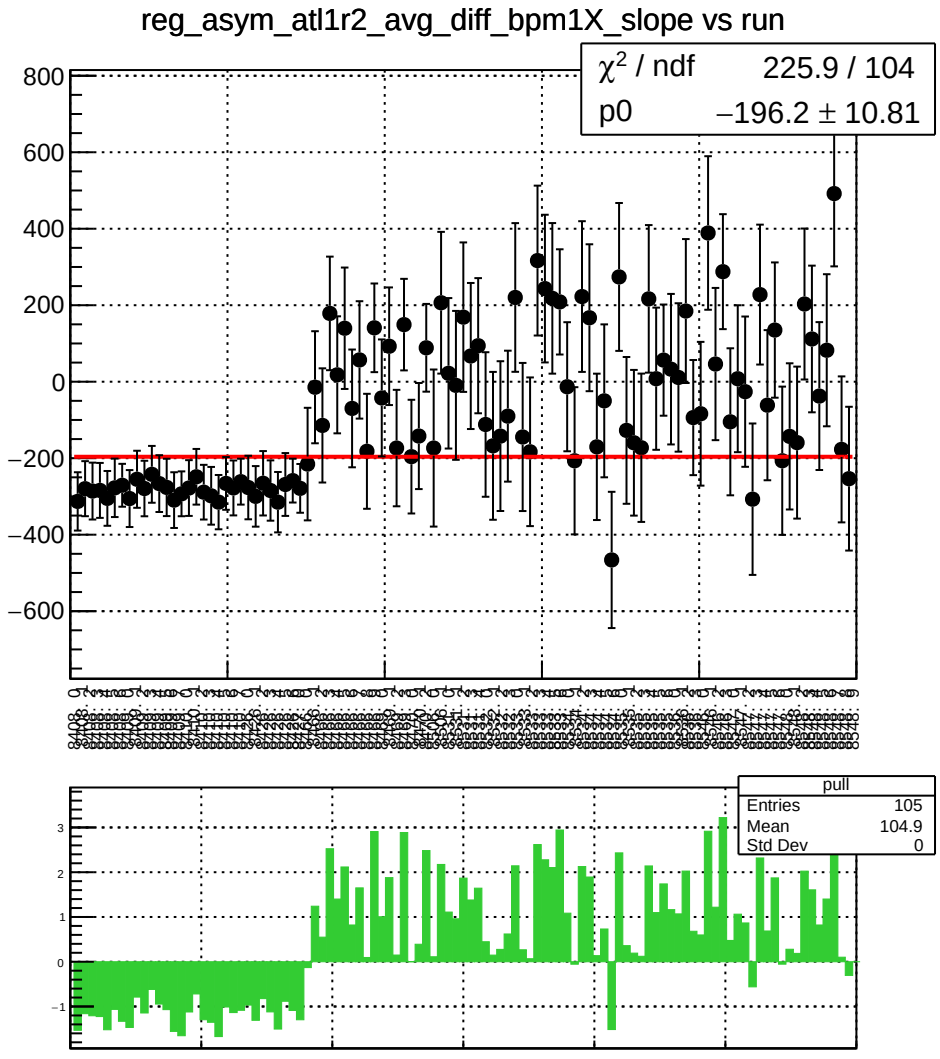
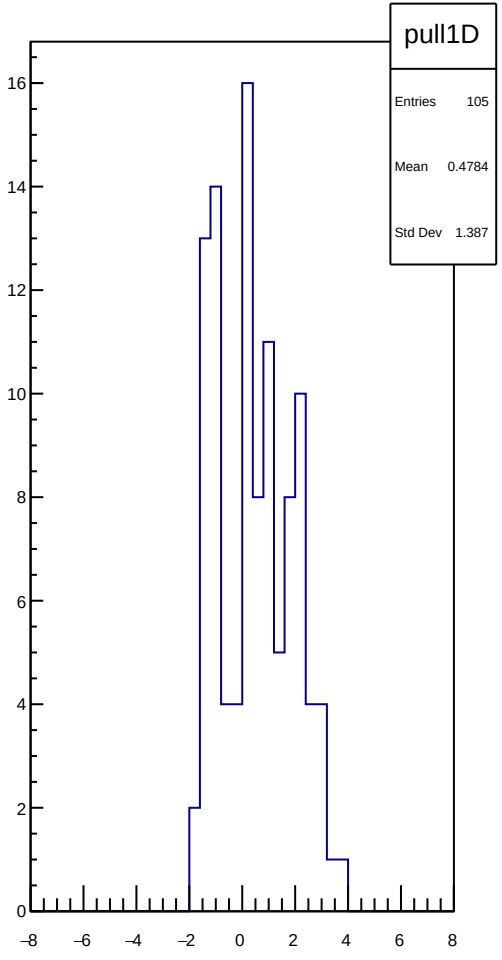
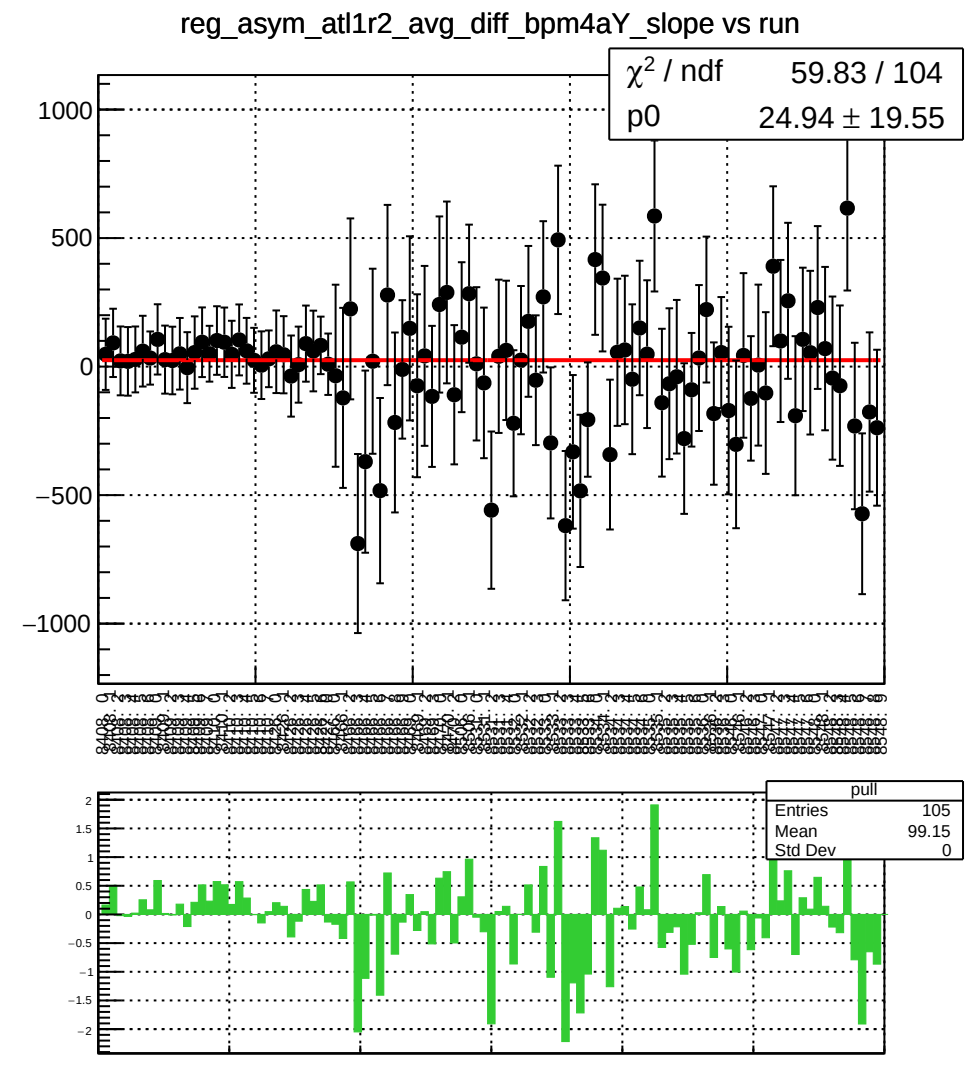
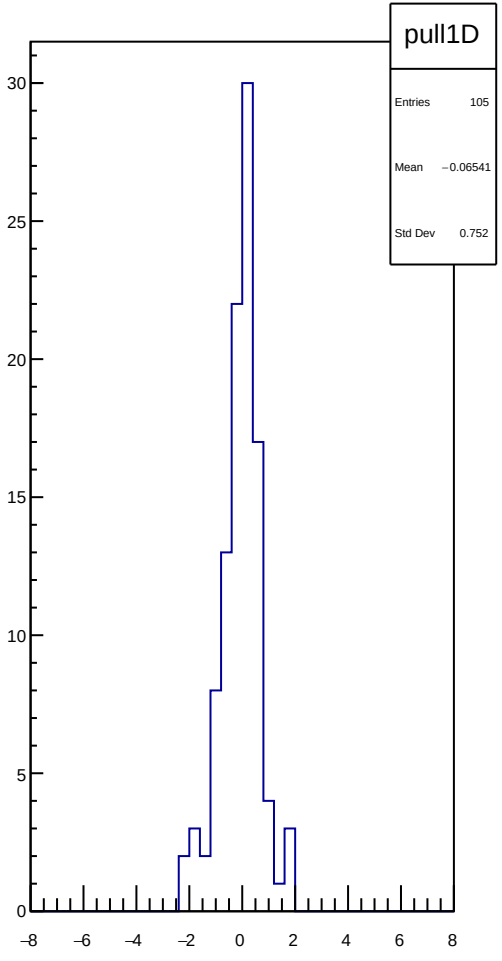
−4
−2
0
2
4
6
8


reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 225.9 / 104
p0 −196.2 ± 10.81
800
600
400
200
0
−200
−400
−600
pull
Entries 105
Mean 104.9
Std Dev 0
3
2
1
0
−1


pull1D
Entries 105
Mean 0.4784
Std Dev 1.387
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 59.83 / 104
p0 24.94 ± 19.55
1000
500
0
−500
−1000
pull
Entries 105
Mean 99.15
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 105
Mean −0.06541
Std Dev 0.752
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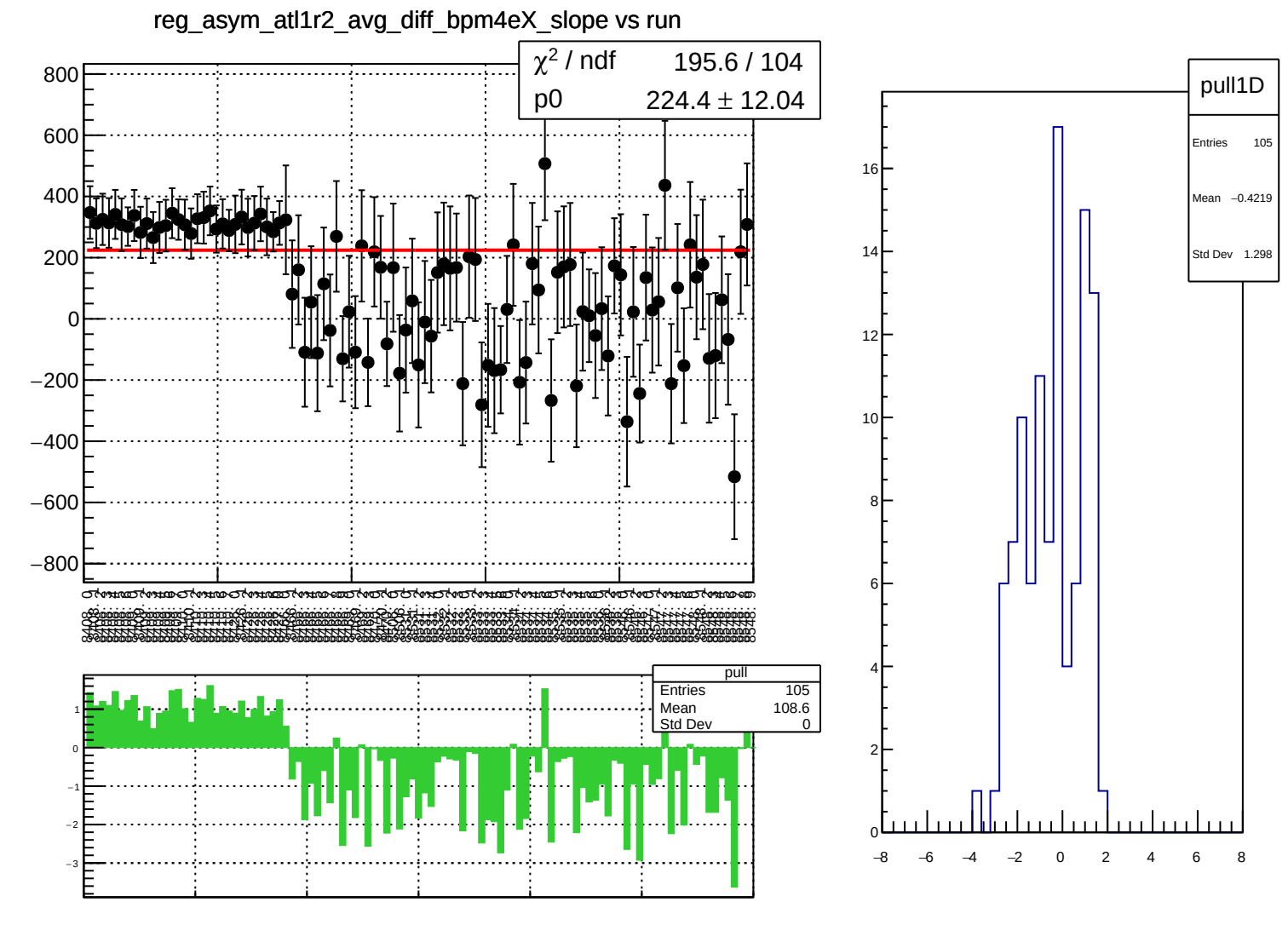
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 195.6 / 104
p0 224.4 ± 12.04
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 105
Mean 108.6
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 105
Mean −0.4219
Std Dev 1.298
16
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12
10
8
6
4
2
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−4
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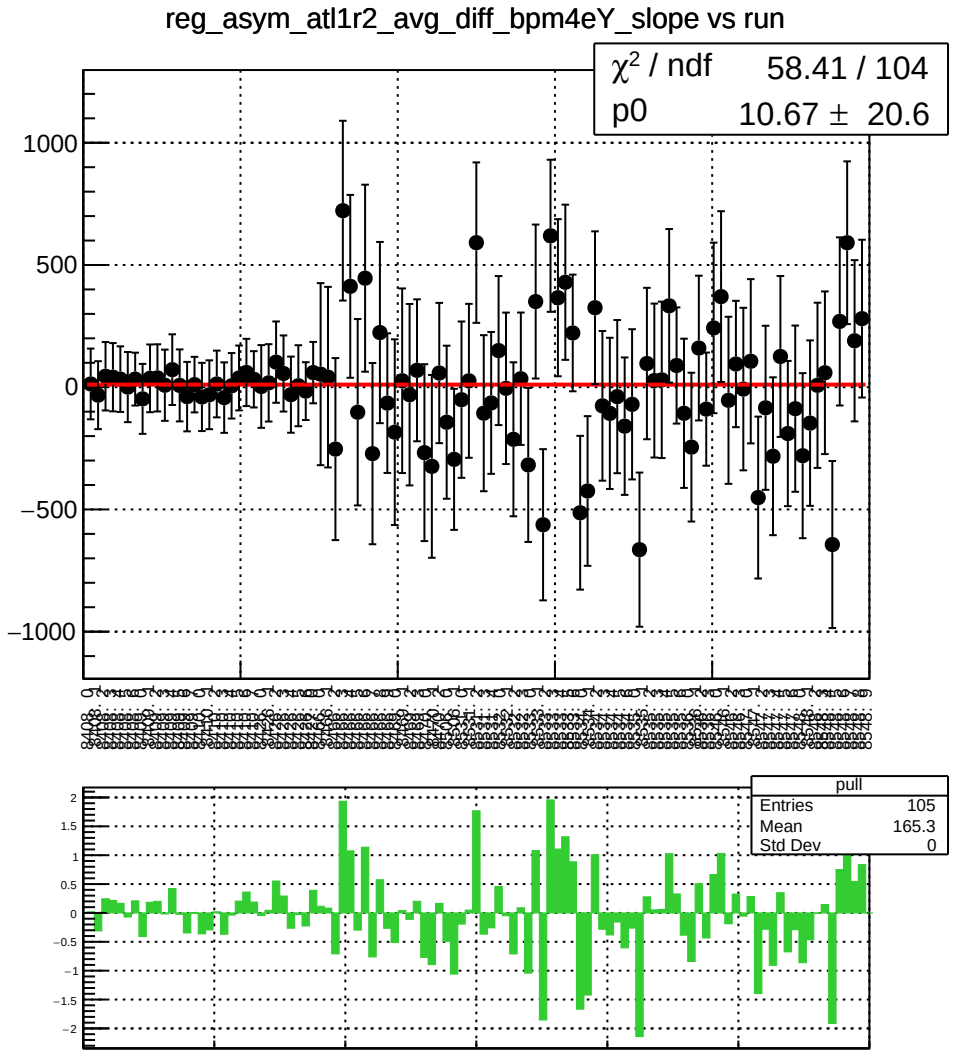
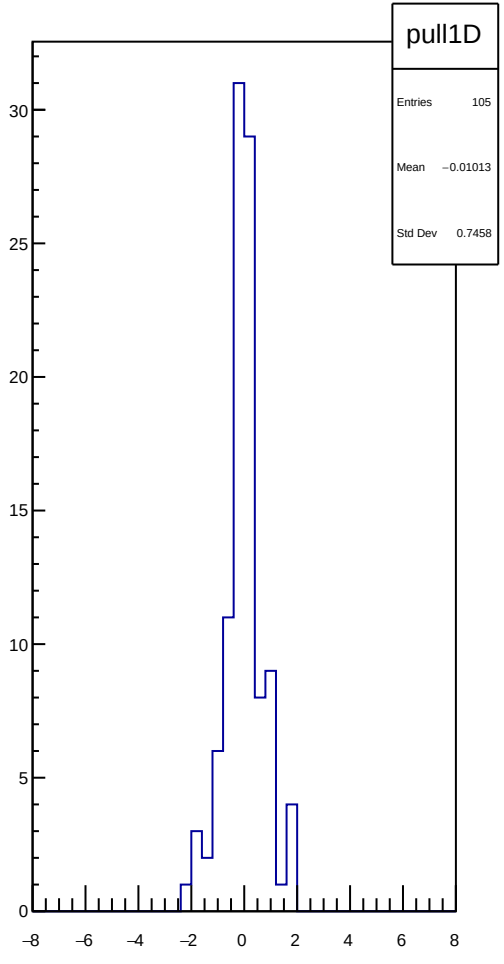
0
2
4
6
8


reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 58.41 / 104
p0 10.67 ± 20.6
1000
500
0
−500
−1000
pull
Entries 105
Mean 165.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 105
Mean −0.01013
Std Dev 0.7458
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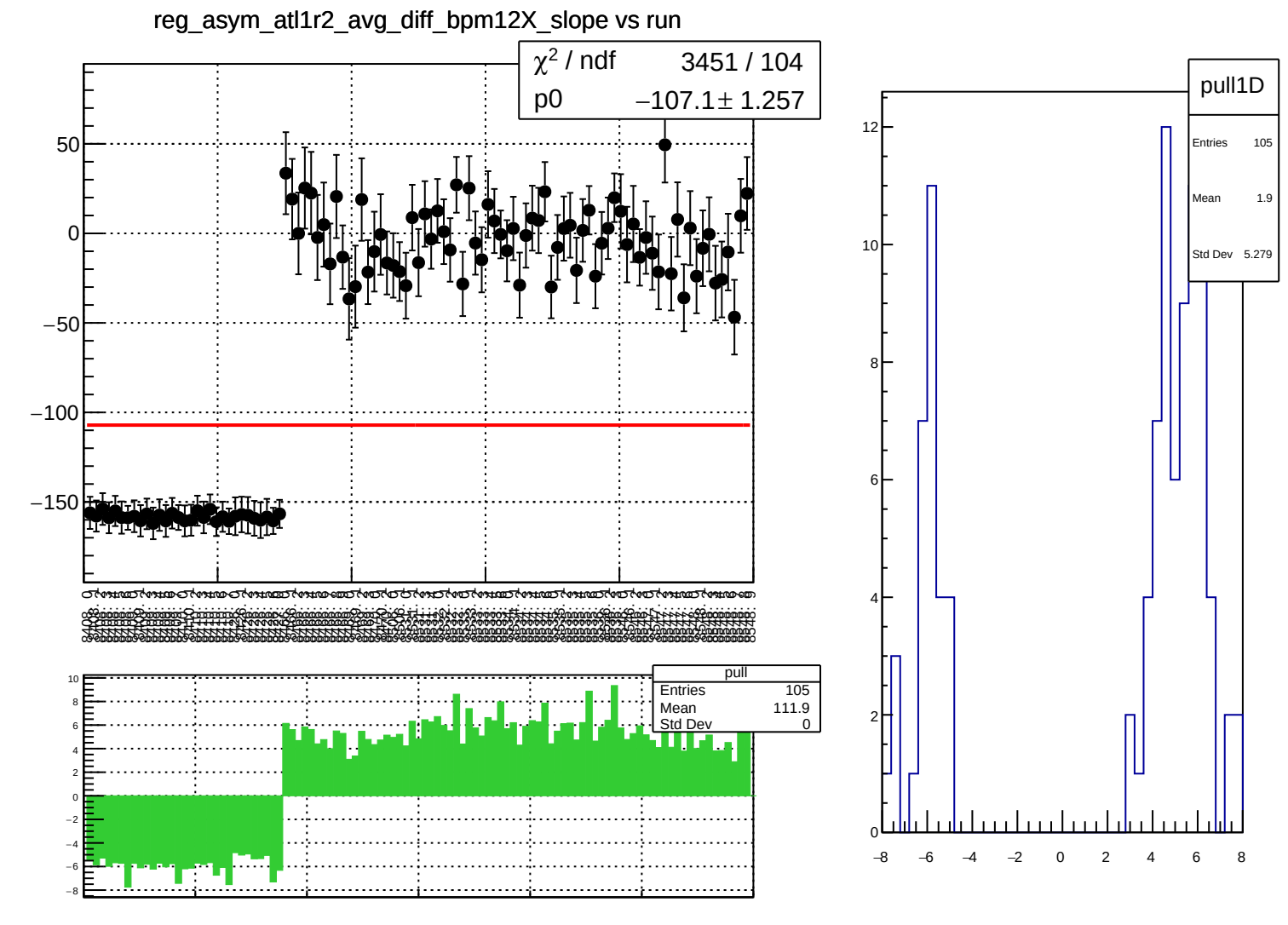
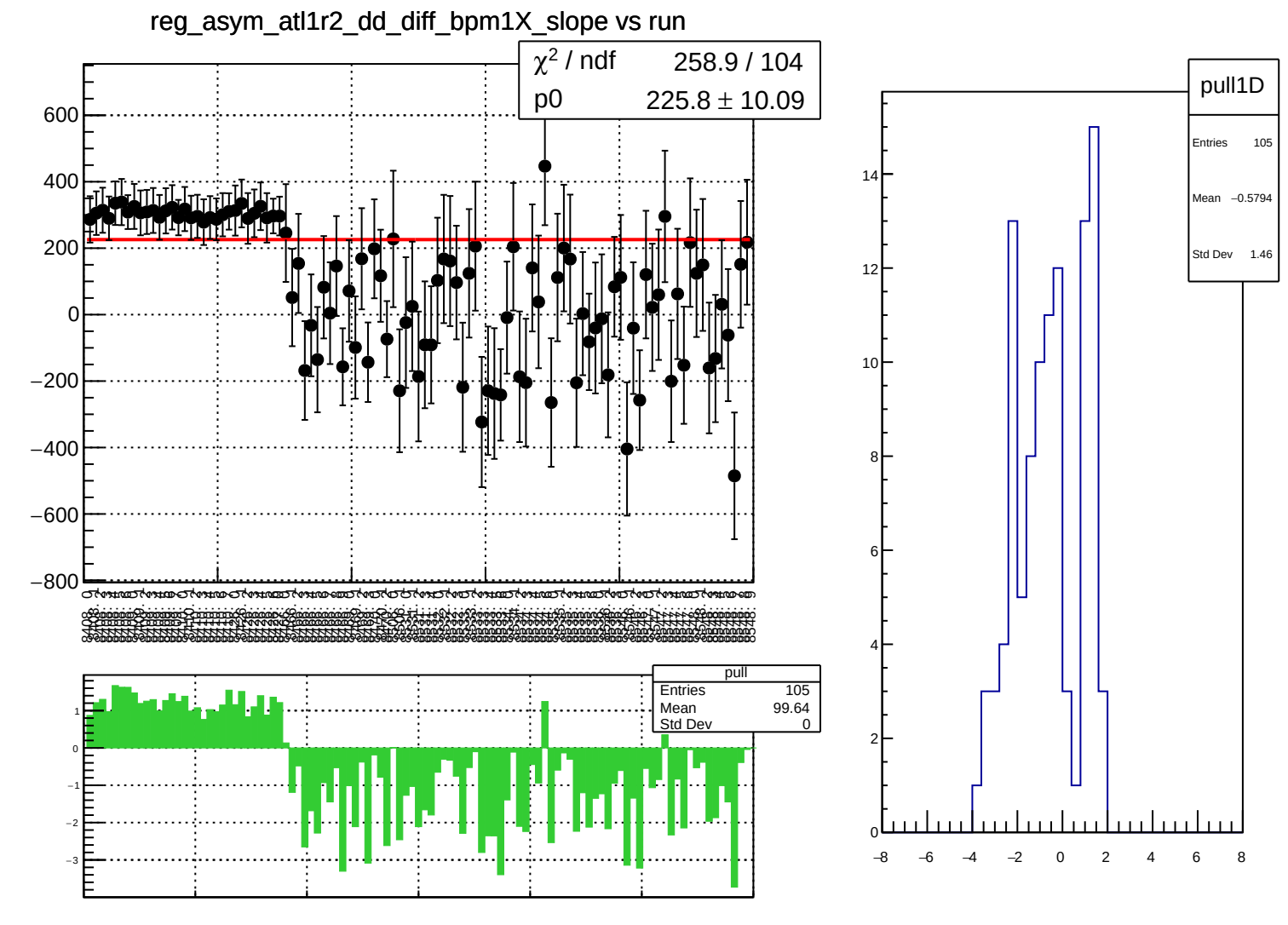
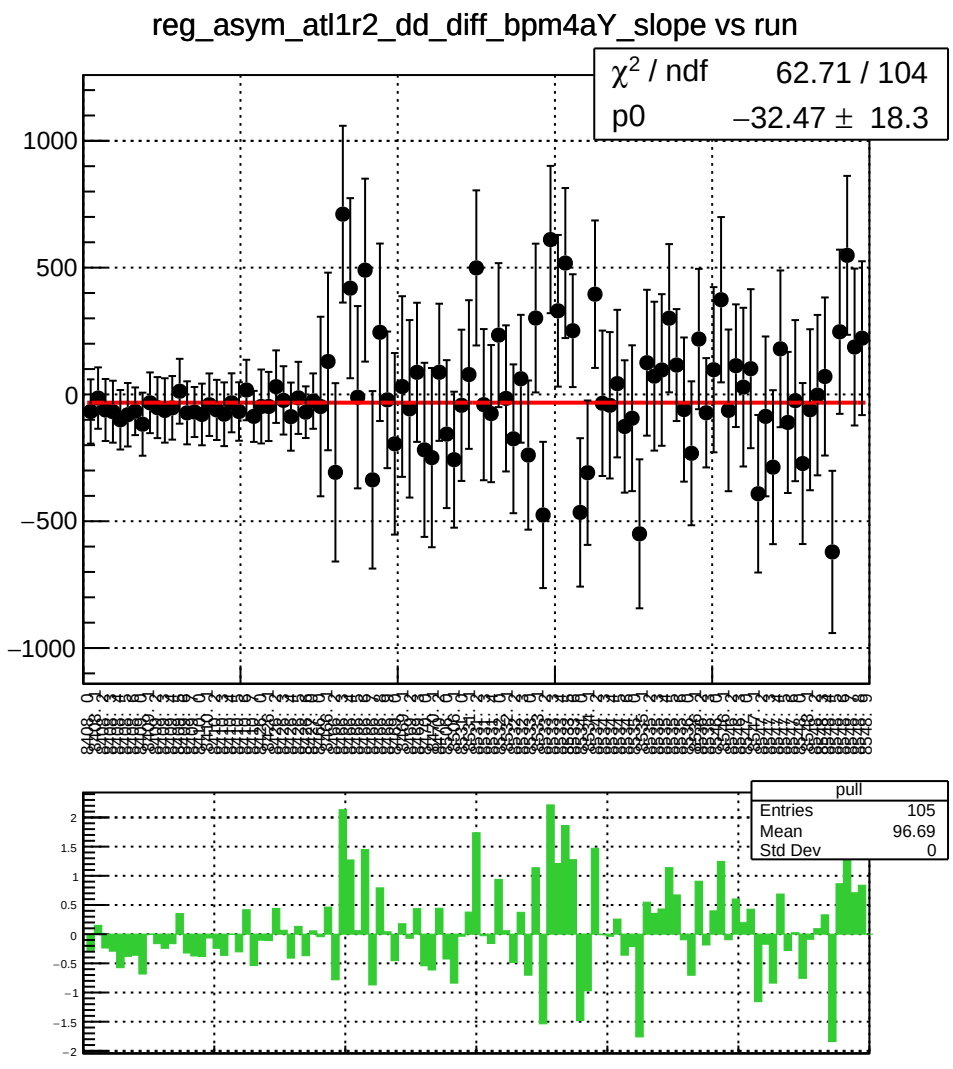
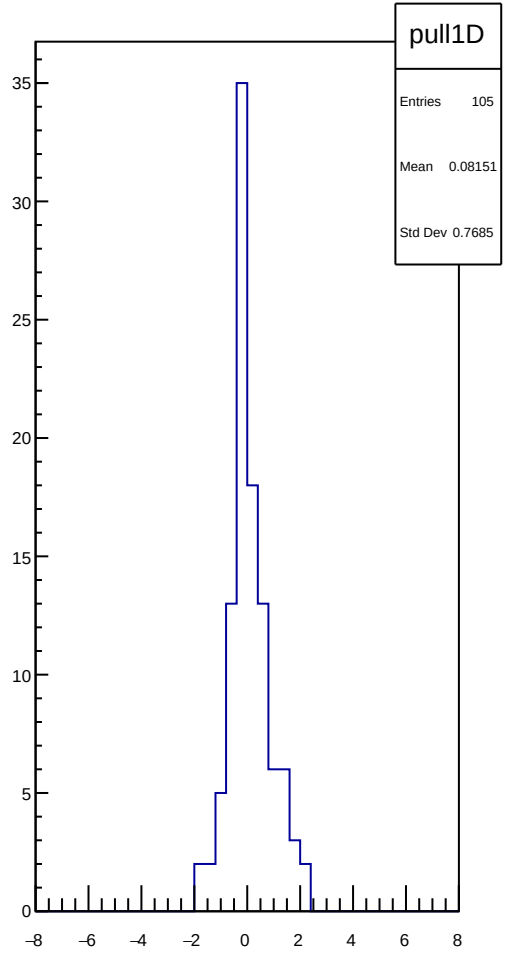
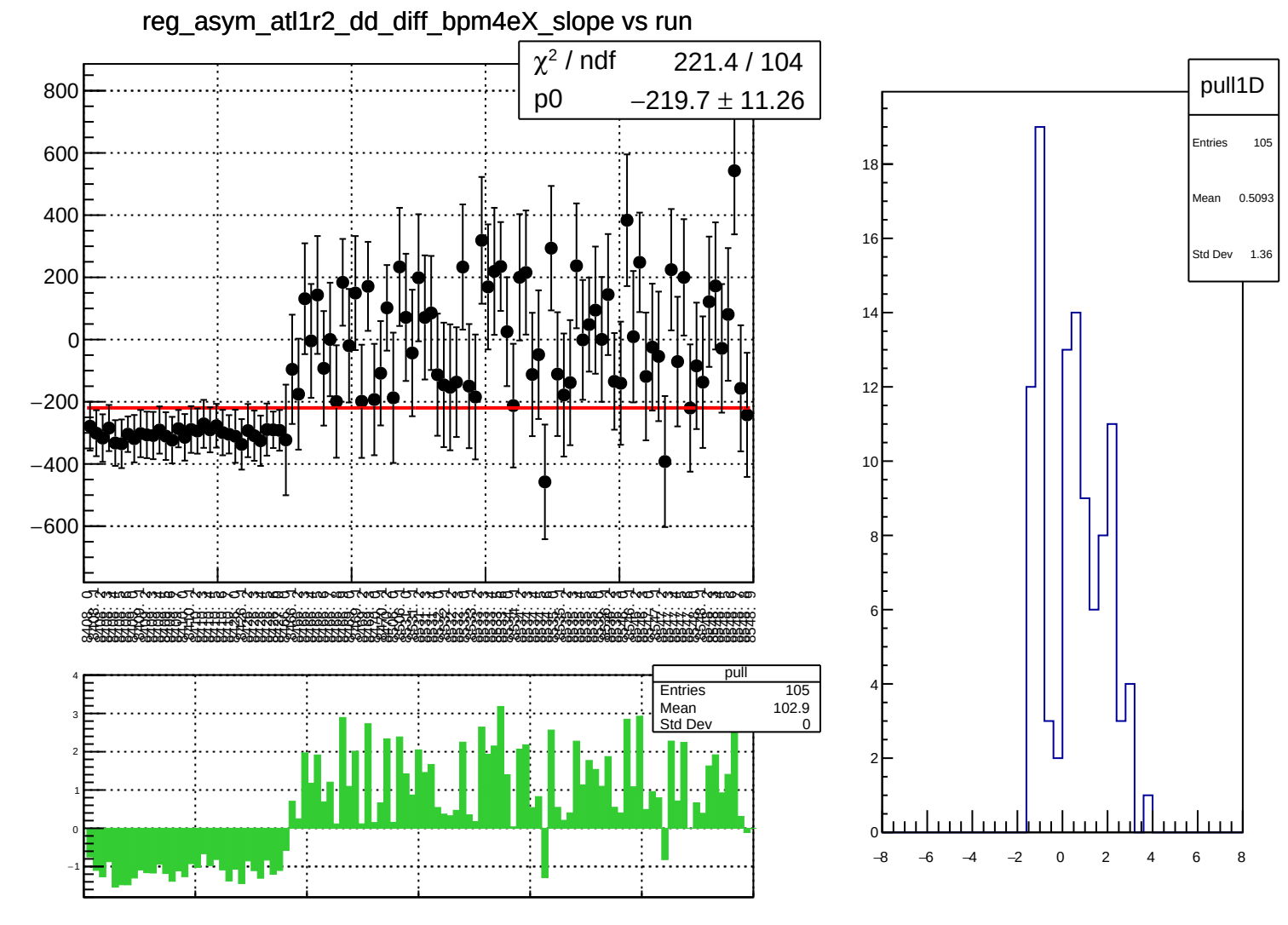
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

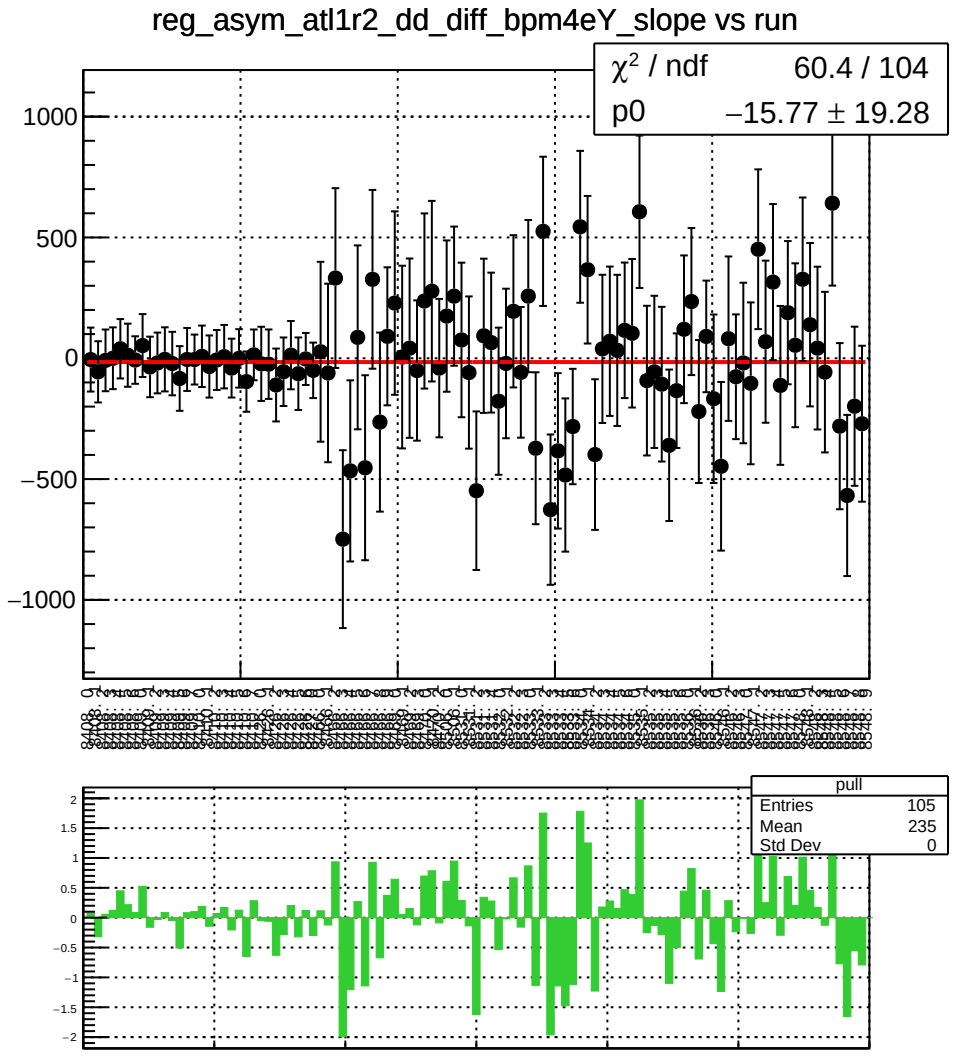

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 3451 / 104
p0 −107.1± 1.257
50
0
−50
−100
−150
pull
Entries 105
Mean 111.9
Std Dev 0
10
8
6
4
2
0
−2
−4
−6
−8
pull1D
Entries 105
Mean 1.9
Std Dev 5.279
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

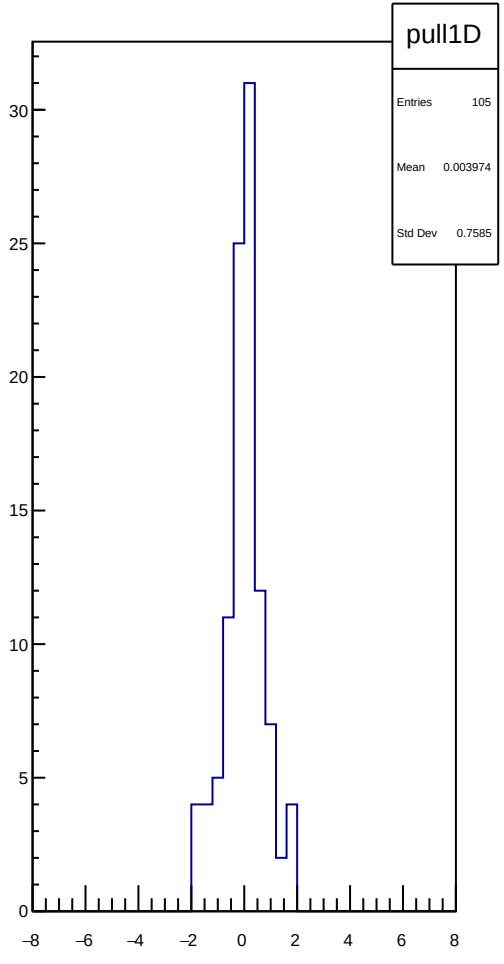

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 258.9 / 104
p0 225.8 ± 10.09
600
400
200
0
−200
−400
−600
−800
pull
Entries 105
Mean 99.64
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 105
Mean −0.5794
Std Dev 1.46
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

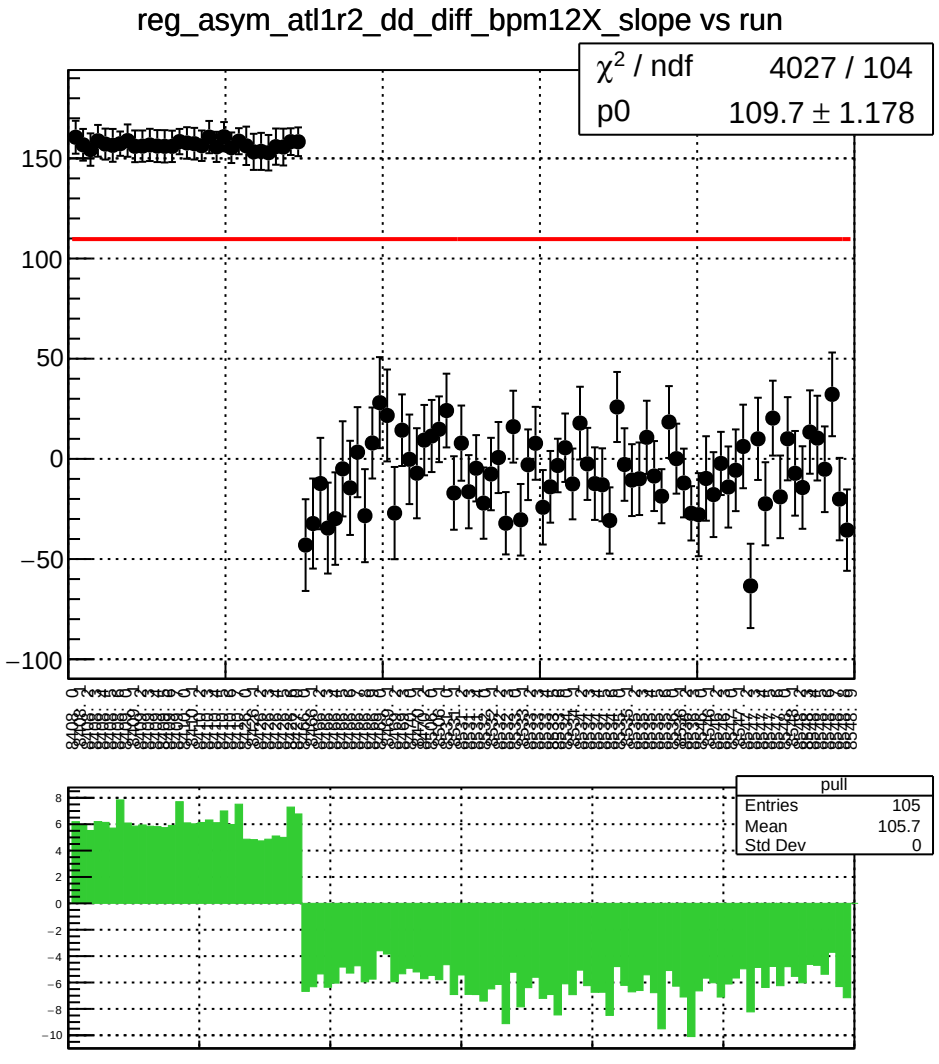

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 62.71 / 104
p0 −32.47 ± 18.3
1000
500
0
−500
−1000
pull
Entries 105
Mean 96.69
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

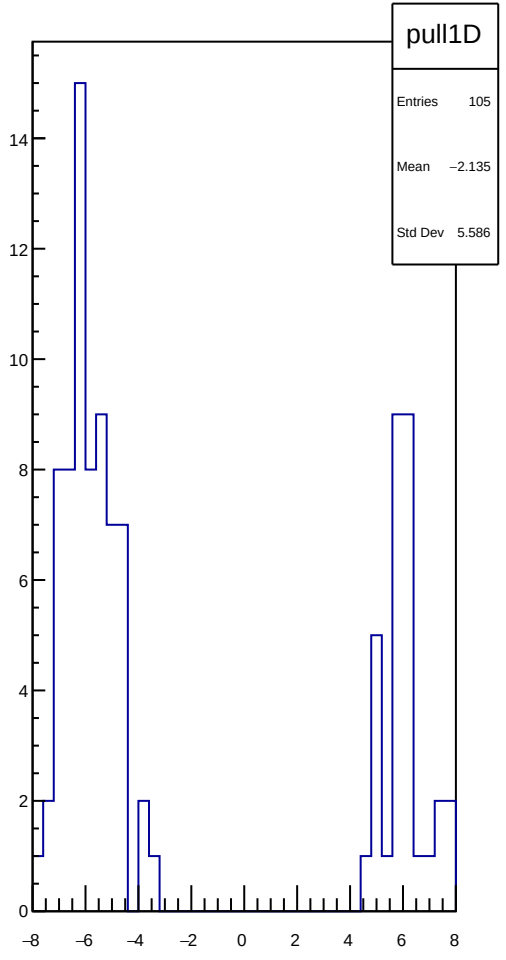

pull1D
Entries 105
Mean 0.08151
Std Dev 0.7685
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

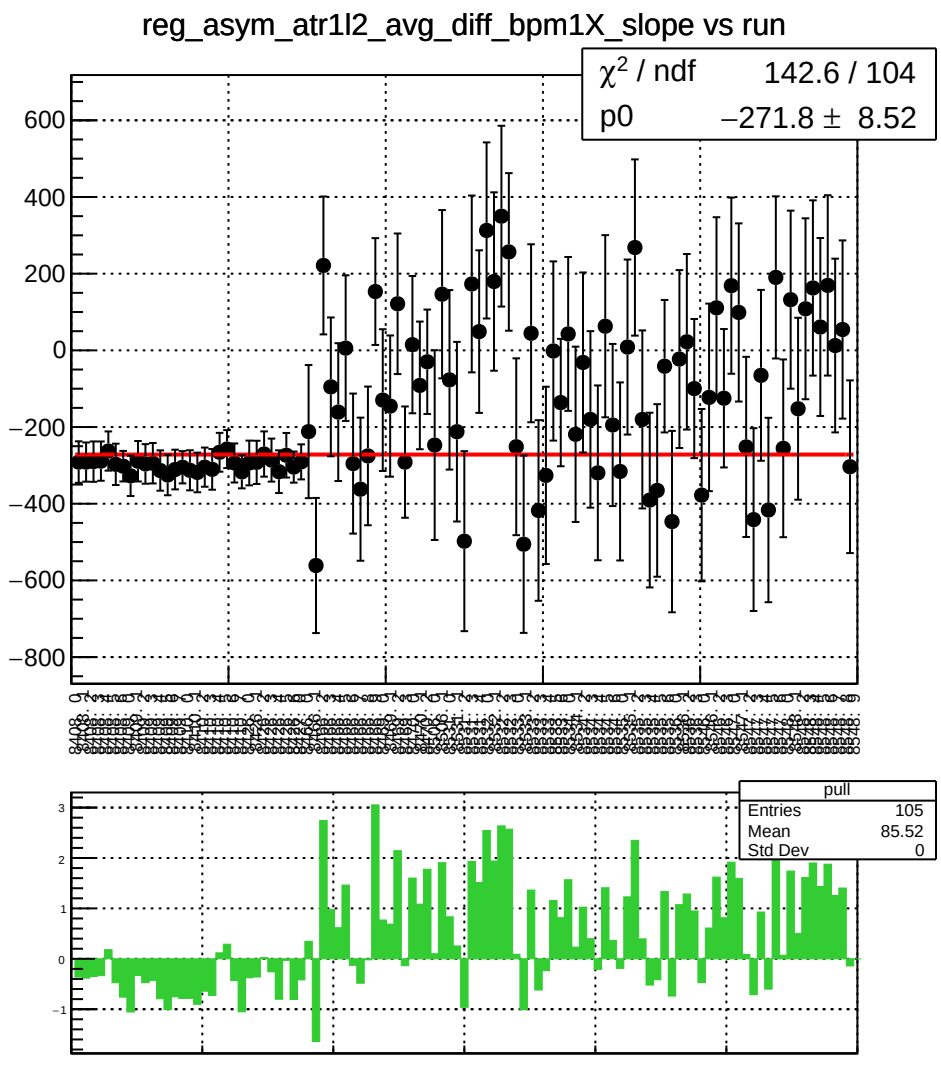

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 221.4 / 104
p0 −219.7 ± 11.26
800
600
400
200
0
−200
−400
−600
pull
Entries 105
Mean 102.9
Std Dev 0
4
3
2
1
0
−1
pull1D
Entries 105
Mean 0.5093
Std Dev 1.36
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

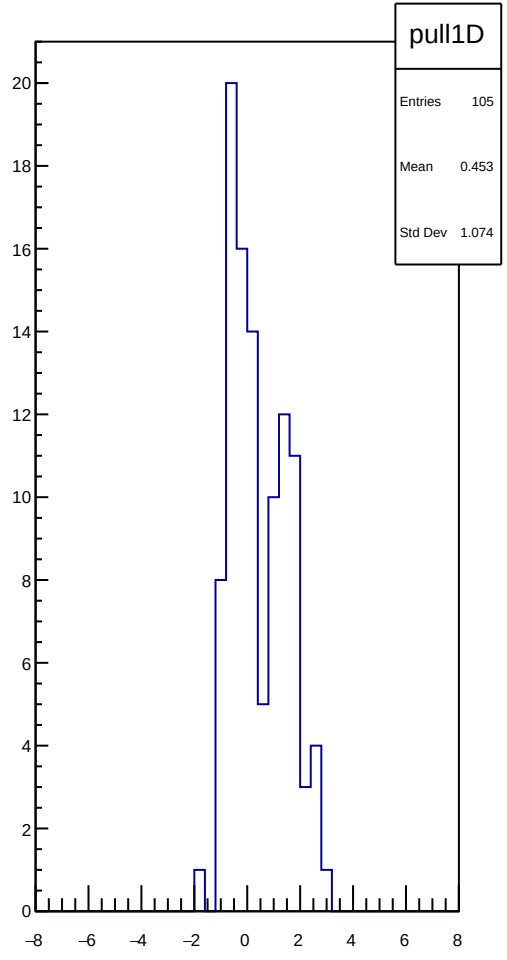

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 60.4 / 104
p0 −15.77 ± 19.28
1000
500
0
−500
−1000
pull
Entries 105
Mean 235
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

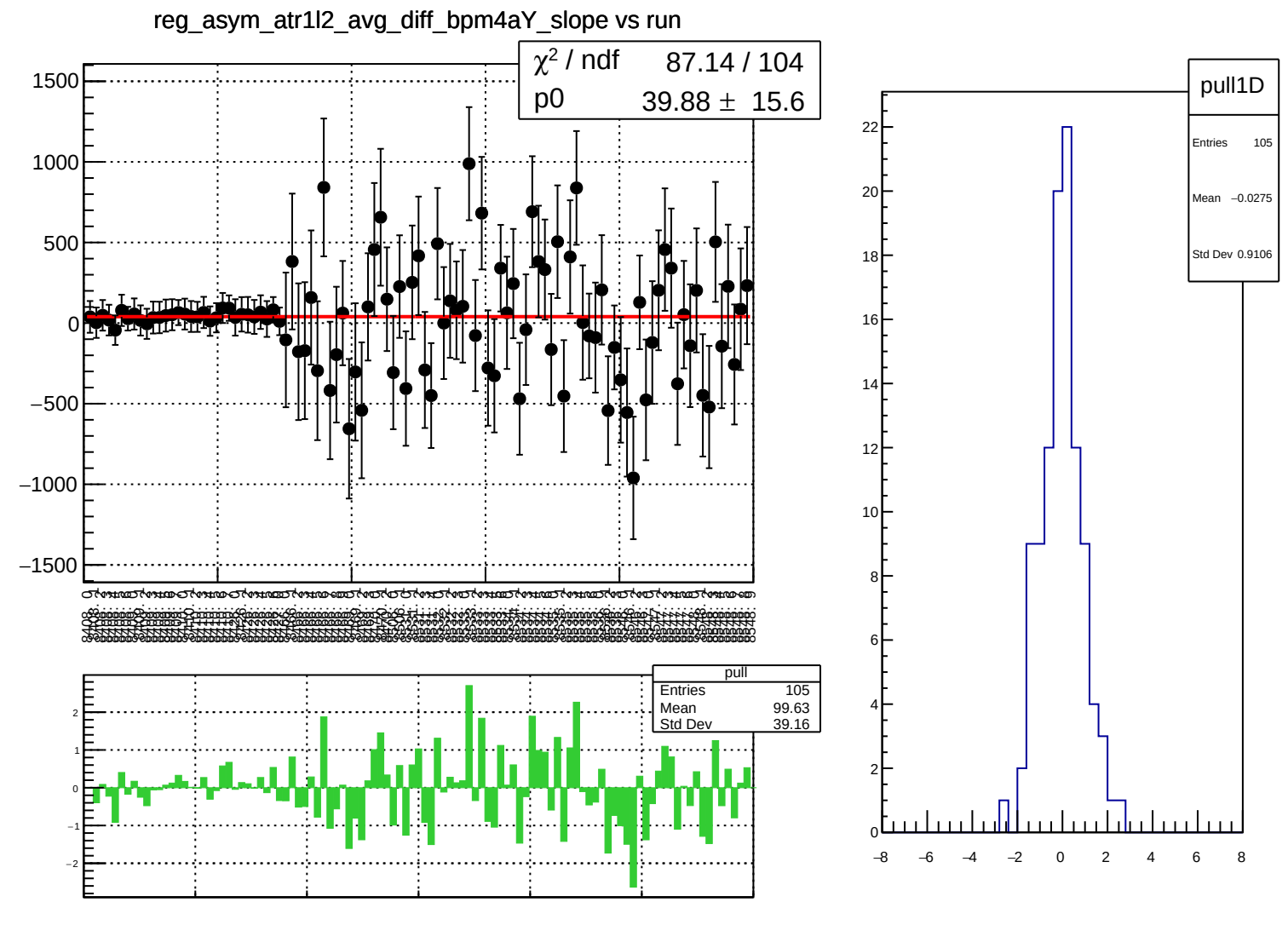

pull1D
Entries 105
Mean 0.003974
Std Dev 0.7585
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

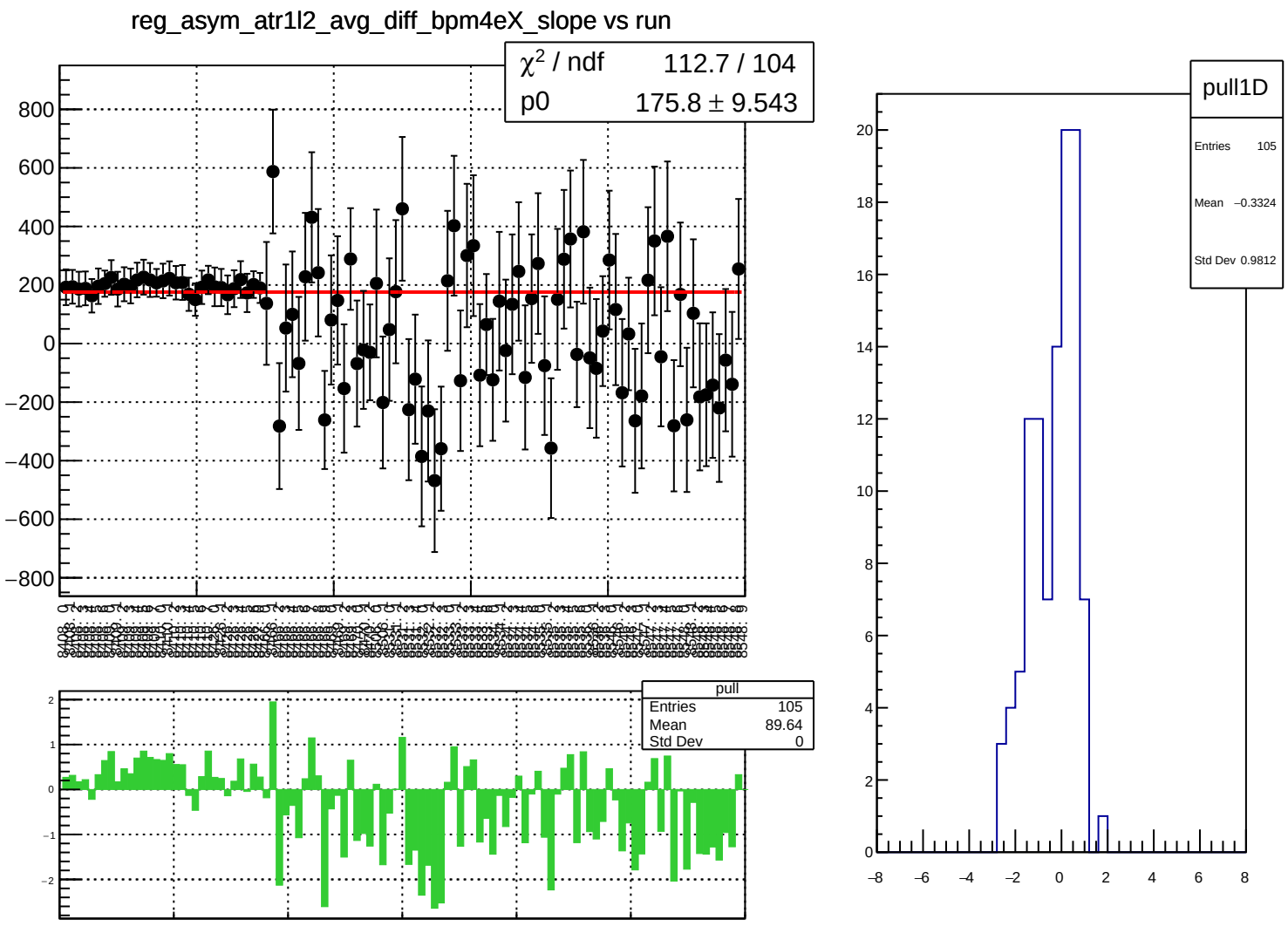

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 4027 / 104
p0 109.7 ± 1.178
150
100
50
0
−50
−100
pull
Entries 105
Mean 105.7
Std Dev 0
8
6
4
2
0
−2
−4
−6
−8
−10

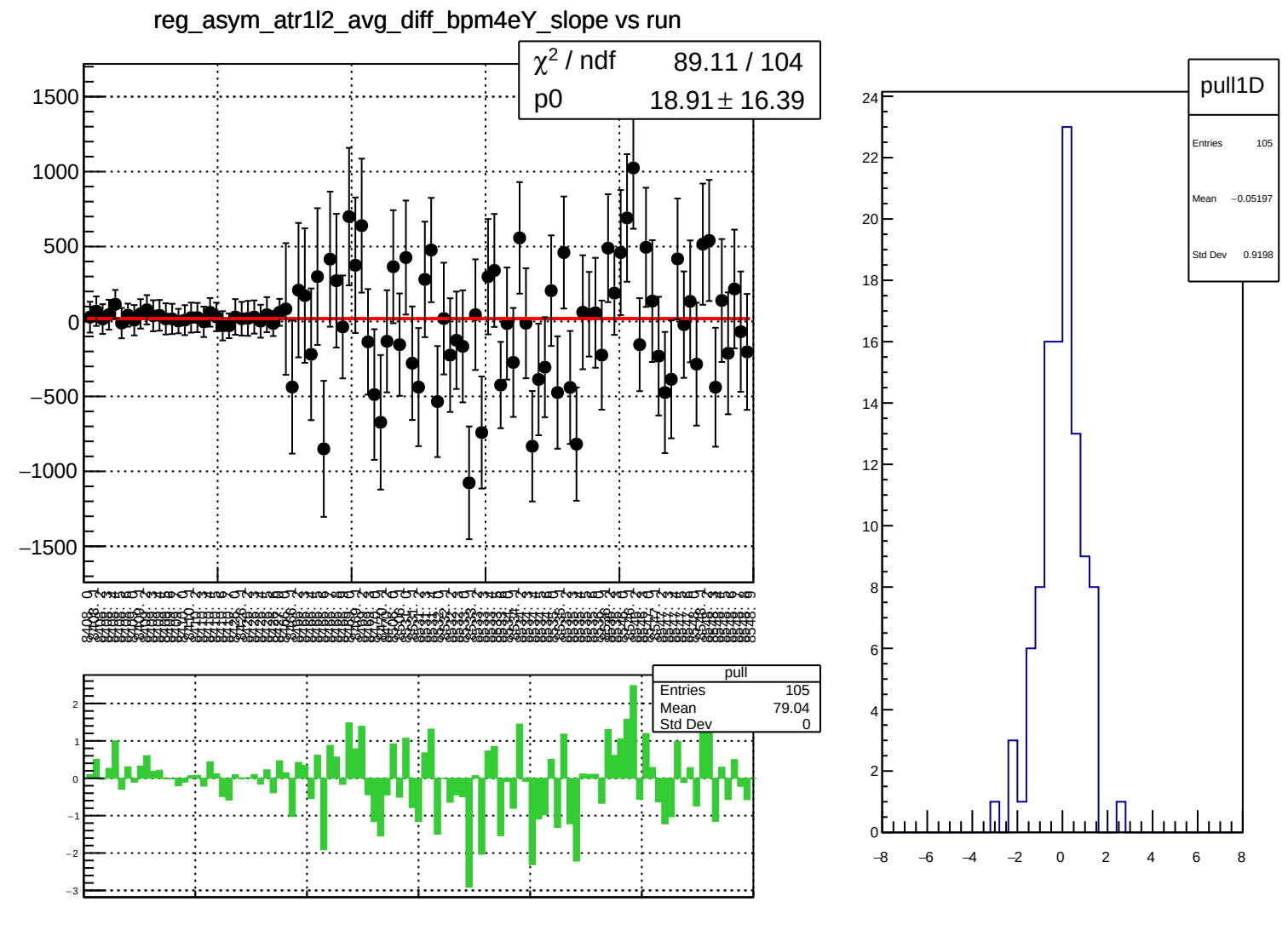

pull1D
Entries 105
Mean −2.135
Std Dev 5.586
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

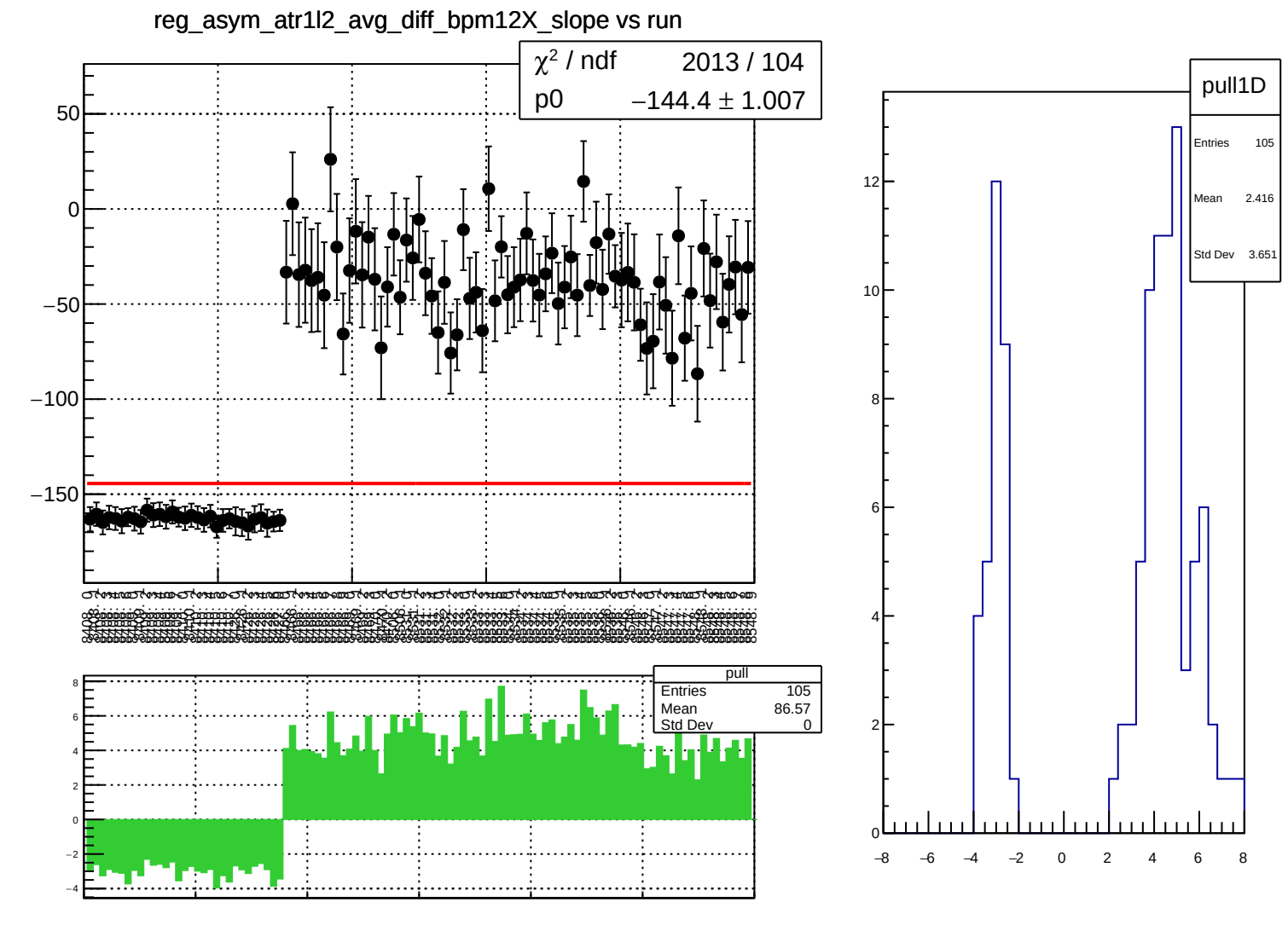

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 142.6 / 104
p0 −271.8 ± 8.52
600
400
200
0
−200
−400
−600
−800
pull
Entries 105
Mean 85.52
Std Dev 0
3
2
1
0
−1

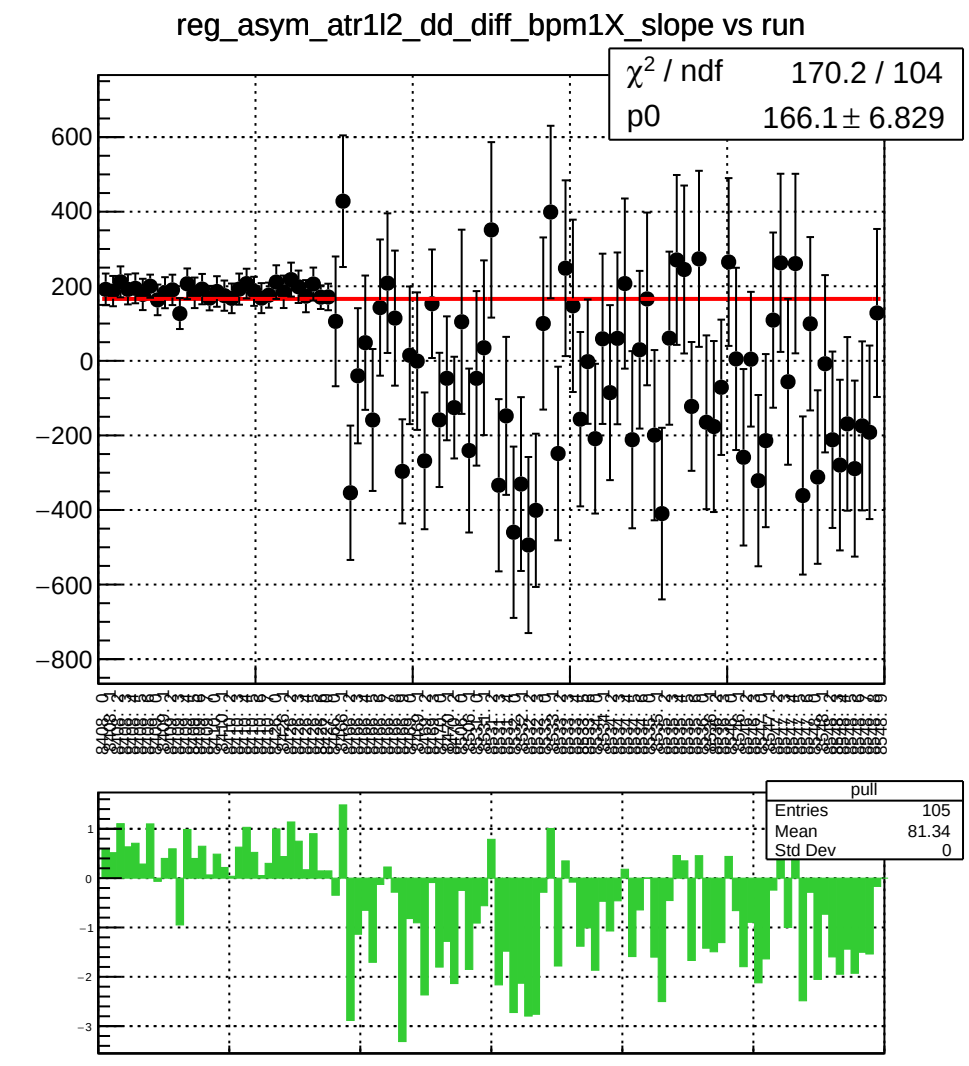

pull1D
Entries 105
Mean 0.453
Std Dev 1.074
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

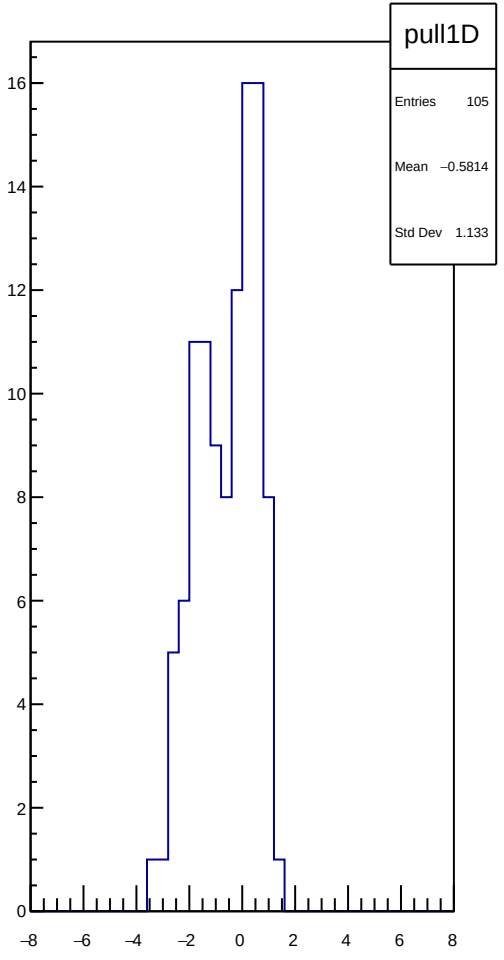

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 87.14 / 104
p0 39.88 ± 15.6
1500
1000
500
0
−500
−1000
−1500
pull
Entries 105
Mean 99.63
Std Dev 39.16
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.0275
Std Dev 0.9106
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

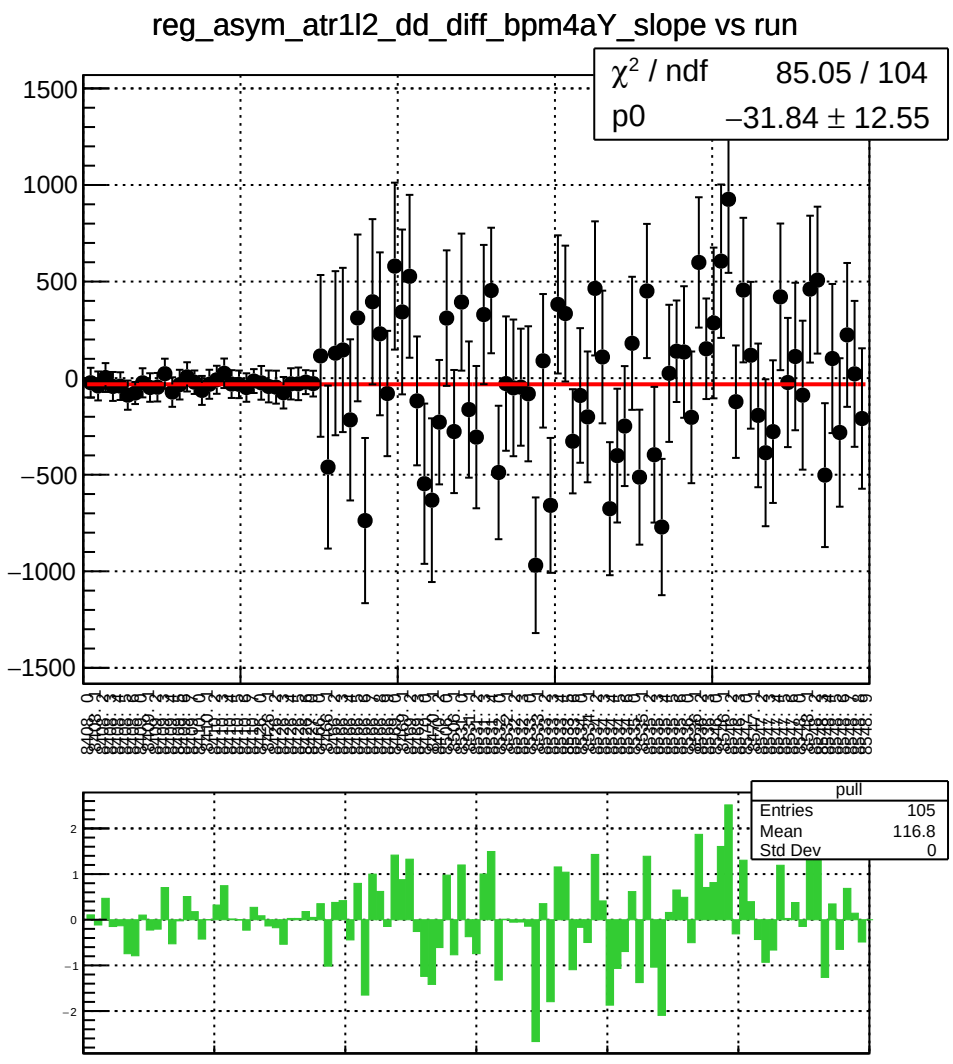

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 112.7 / 104
p0 175.8 ± 9.543
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 105
Mean 89.64
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.3324
Std Dev 0.9812
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

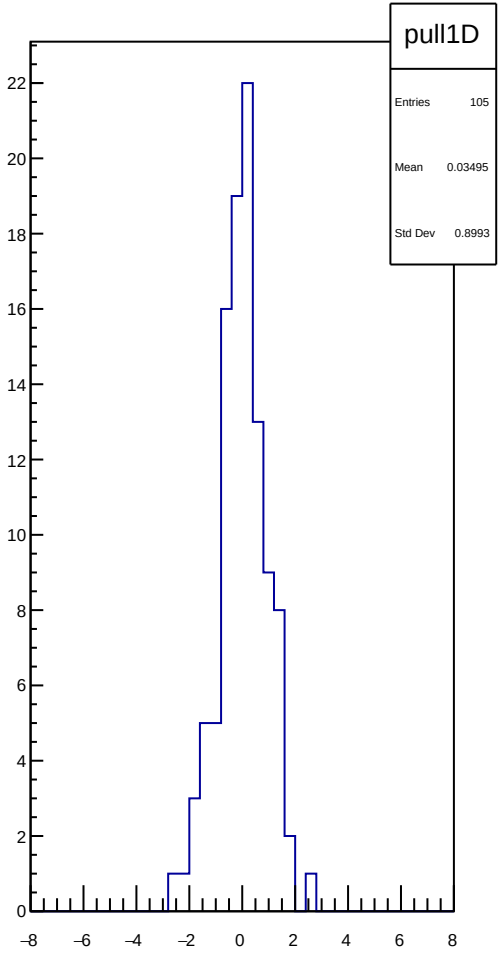

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 89.11 / 104
p0 18.91 ± 16.39
1500
1000
500
0
−500
−1000
−1500
pull
Entries 105
Mean 79.04
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 105
Mean −0.05197
Std Dev 0.9198
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 2013 / 104
p0 −144.4 ± 1.007
50
0
−50
−100
−150
pull
Entries 105
Mean 86.57
Std Dev 0
8
6
4
2
0
−2
−4
pull1D
Entries 105
Mean 2.416
Std Dev 3.651
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 170.2 / 104
p0 166.1 ± 6.829
600
400
200
0
−200
−400
−600
−800
pull
Entries 105
Mean 81.34
Std Dev 0
1
0
−1
−2
−3


pull1D
Entries 105
Mean −0.5814
Std Dev 1.133
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 85.05 / 104
p0 −31.84 ± 12.55
1500
1000
500
0
−500
−1000
−1500
pull
Entries 105
Mean 116.8
Std Dev 0
2
1
0
−1
−2


pull1D
Entries 105
Mean 0.03495
Std Dev 0.8993
22
20
18
16
14
12
10
8
6
4
2
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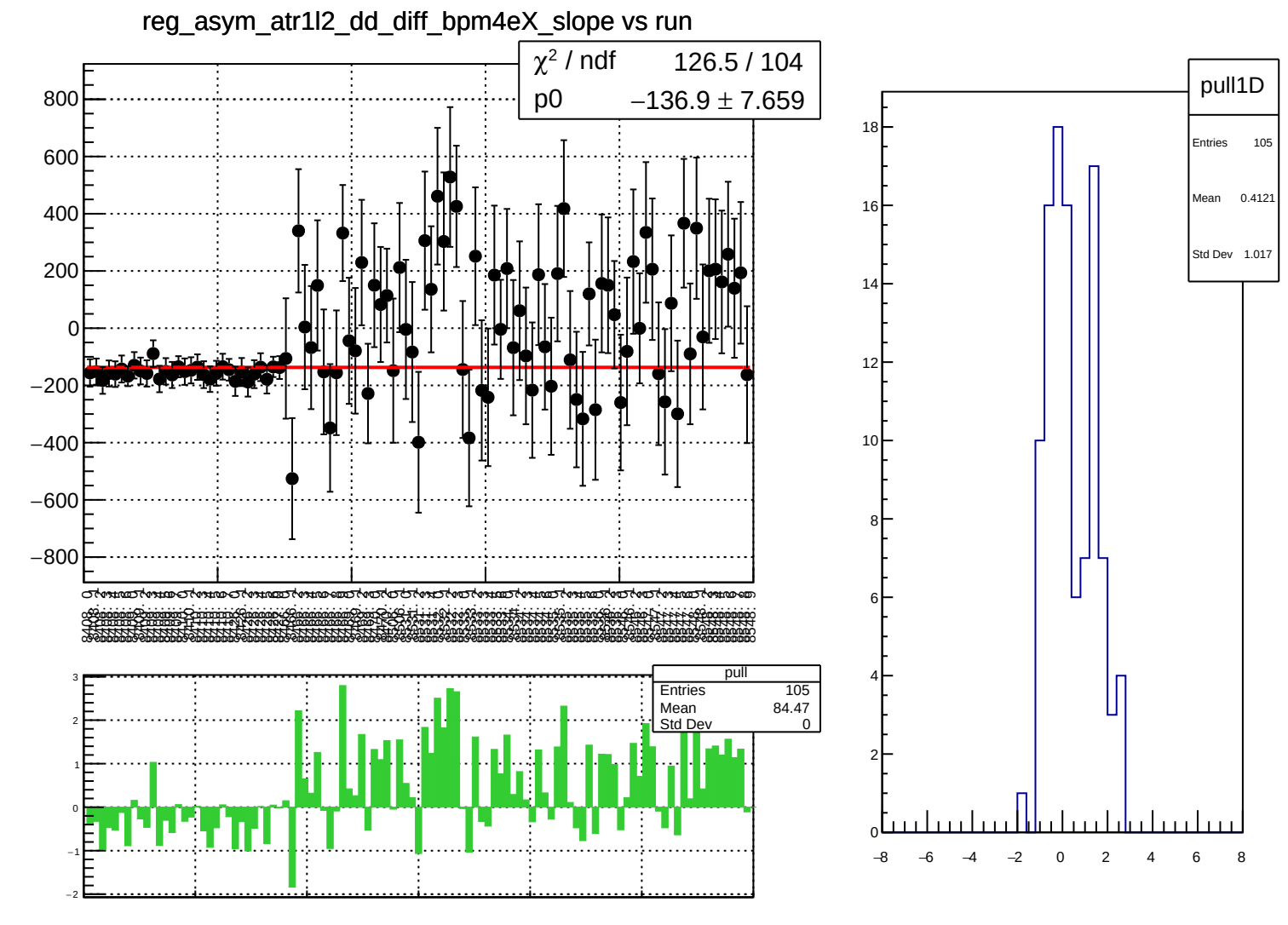
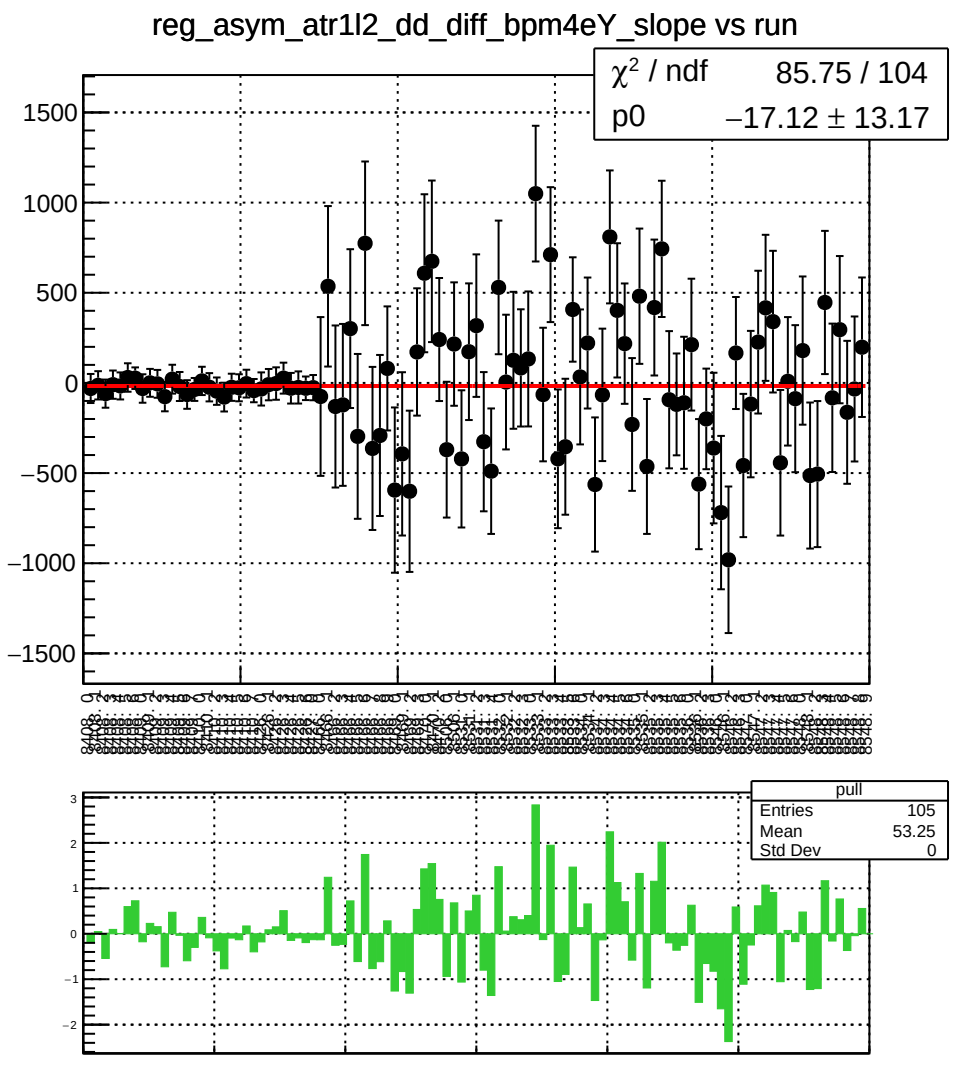
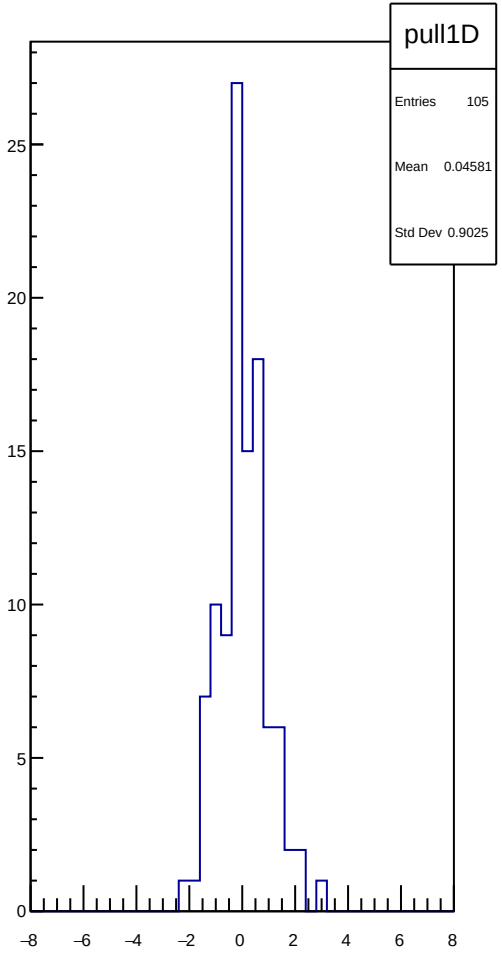
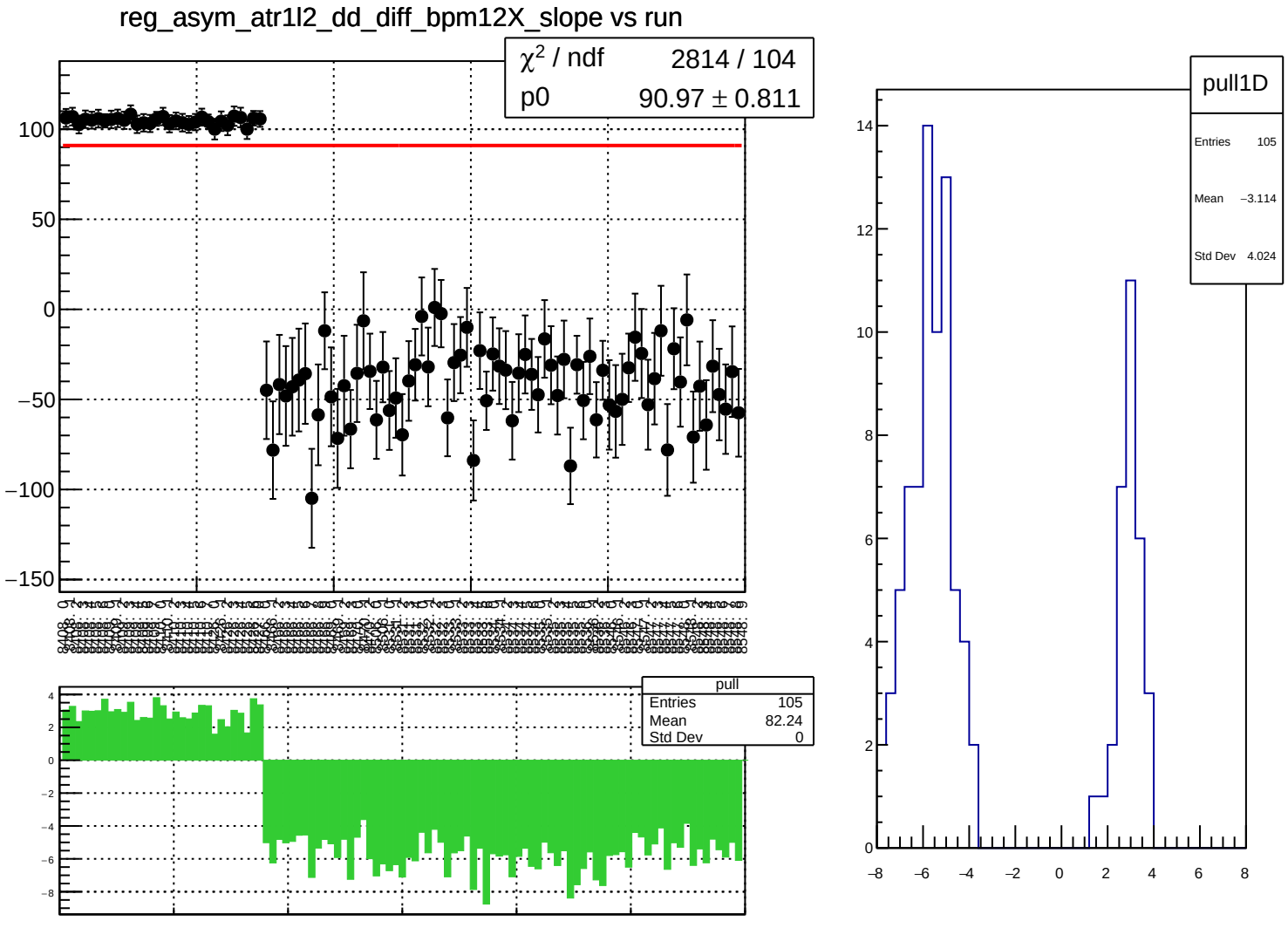
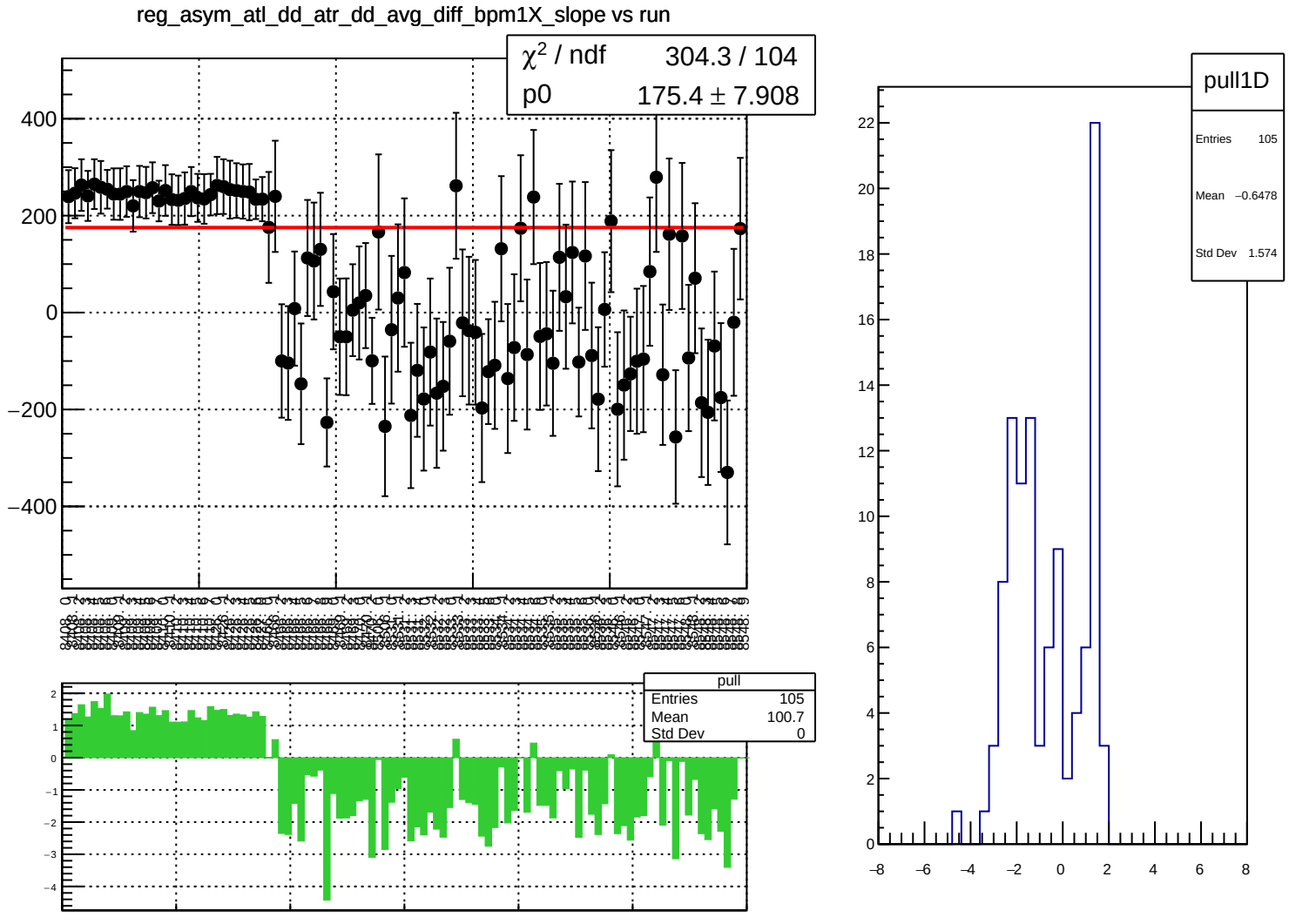
−8
−6
−4
−2
0
2
4
6
8

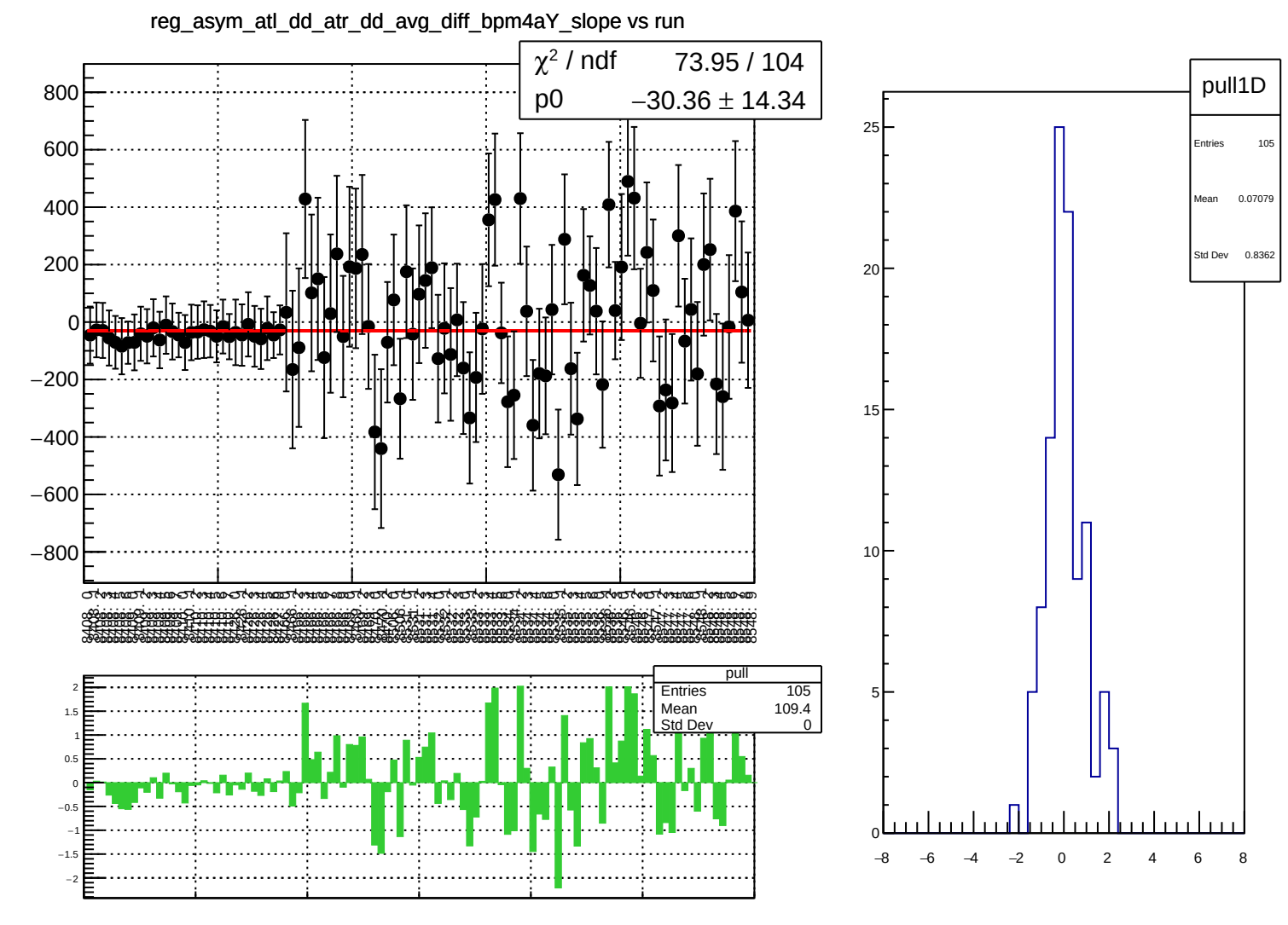

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 126.5 / 104
p0 −136.9 ± 7.659
pull
Entries 105
Mean 84.47
Std Dev 0
pull1D
Entries 105
Mean 0.4121
Std Dev 1.017

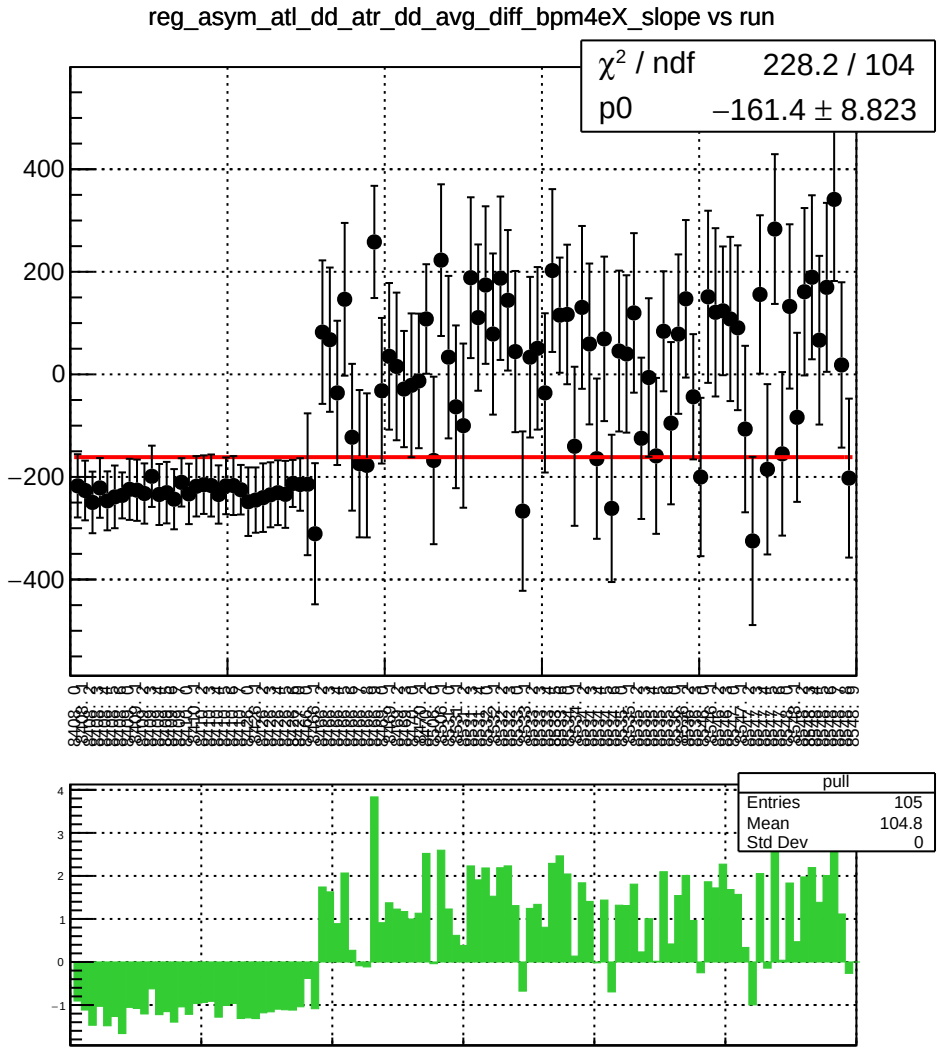

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 85.75 / 104
p0 −17.12 ± 13.17
1500
1000
500
0
−500
−1000
−1500
pull
Entries 105
Mean 53.25
Std Dev 0
3
2
1
0
−1
−2

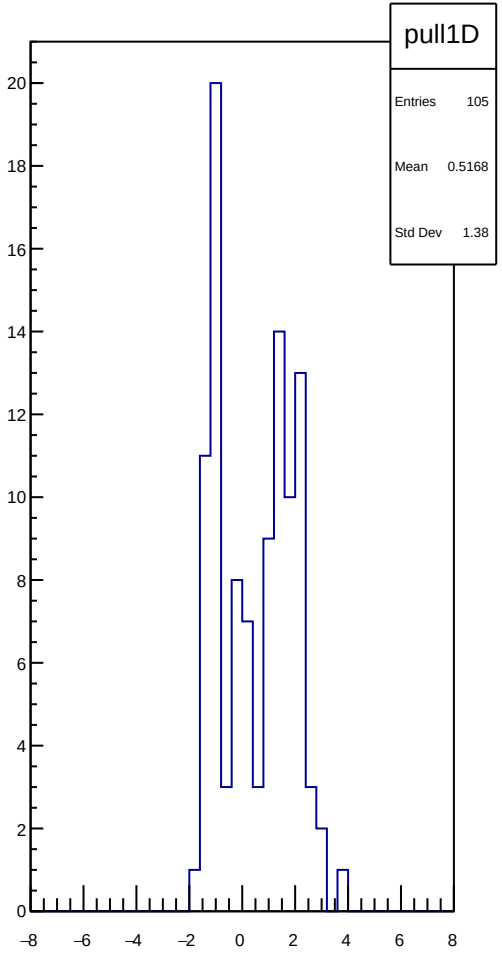

pull1D
Entries 105
Mean 0.04581
Std Dev 0.9025
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

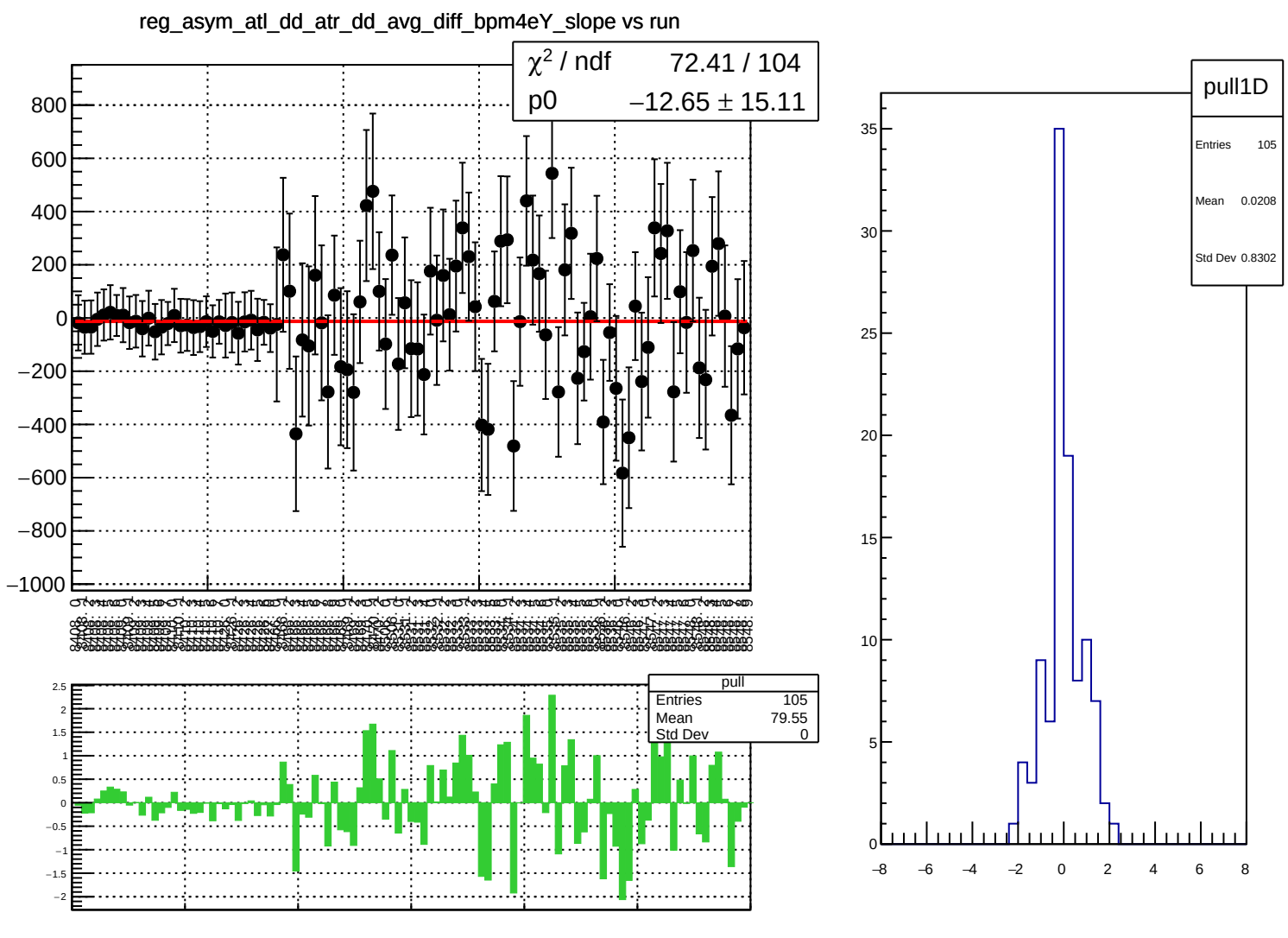

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 2814 / 104
p0 90.97 ± 0.811
100
50
0
−50
−100
−150
pull
Entries 105
Mean 82.24
Std Dev 0
4
2
0
−2
−4
−6
−8
pull1D
Entries 105
Mean −3.114
Std Dev 4.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

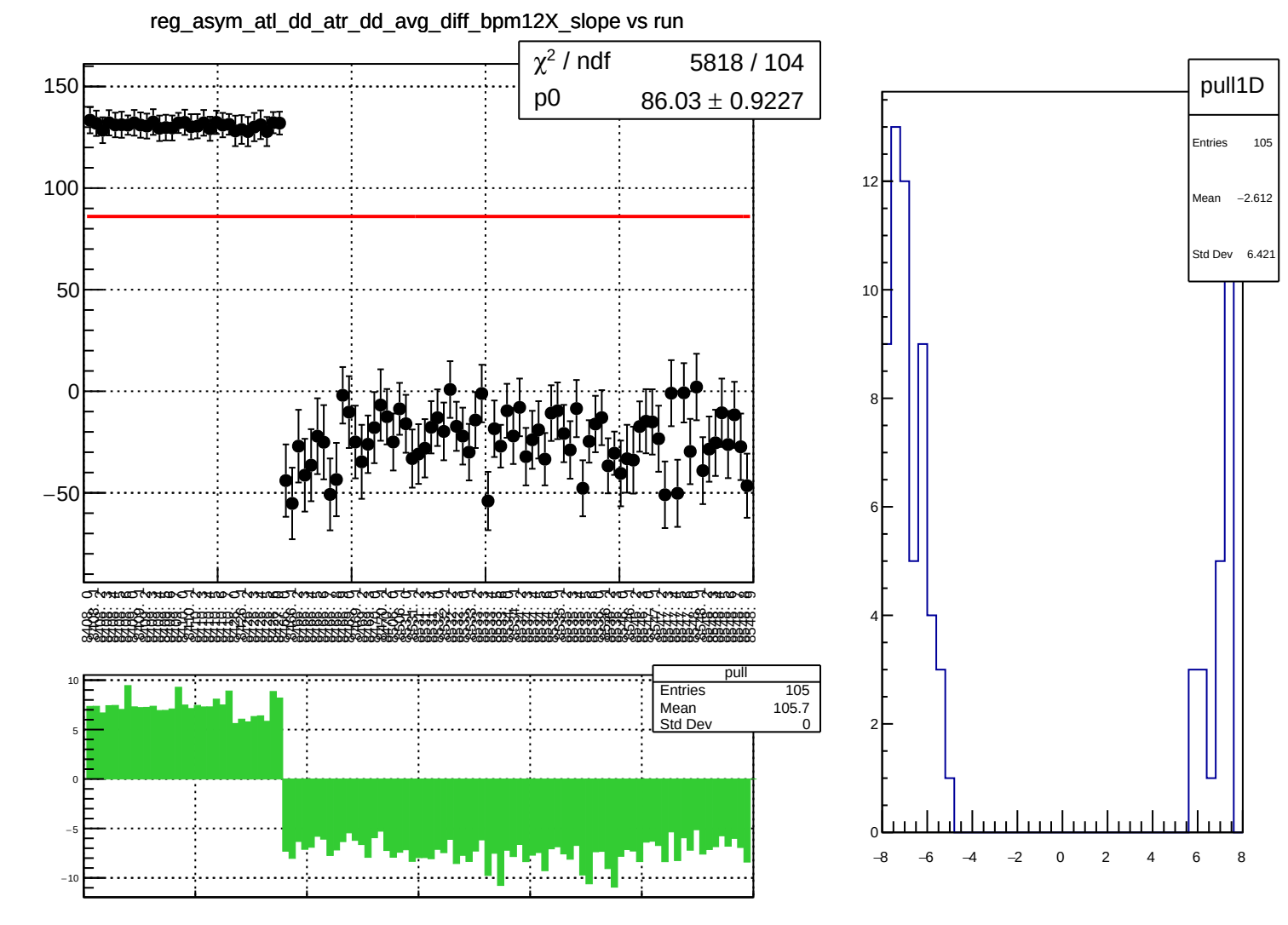

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 304.3 / 104
p0 175.4 ± 7.908
400
200
0
−200
−400
pull
Entries 105
Mean 100.7
Std Dev 0
2
1
0
−1
−2
−3
−4
pull1D
Entries 105
Mean −0.6478
Std Dev 1.574
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

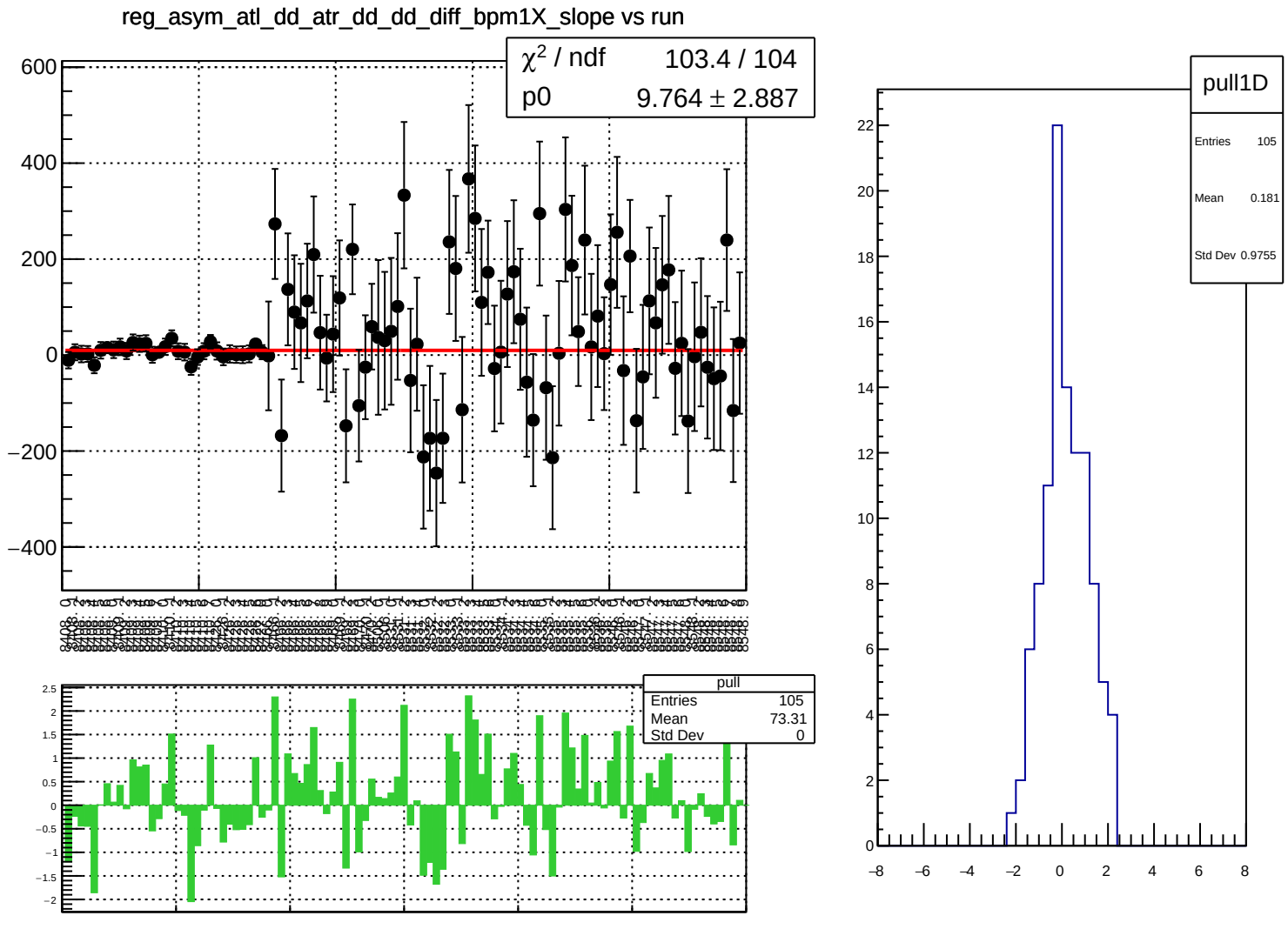

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 73.95 / 104
p0 −30.36 ± 14.34
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 105
Mean 109.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 105
Mean 0.07079
Std Dev 0.8362
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

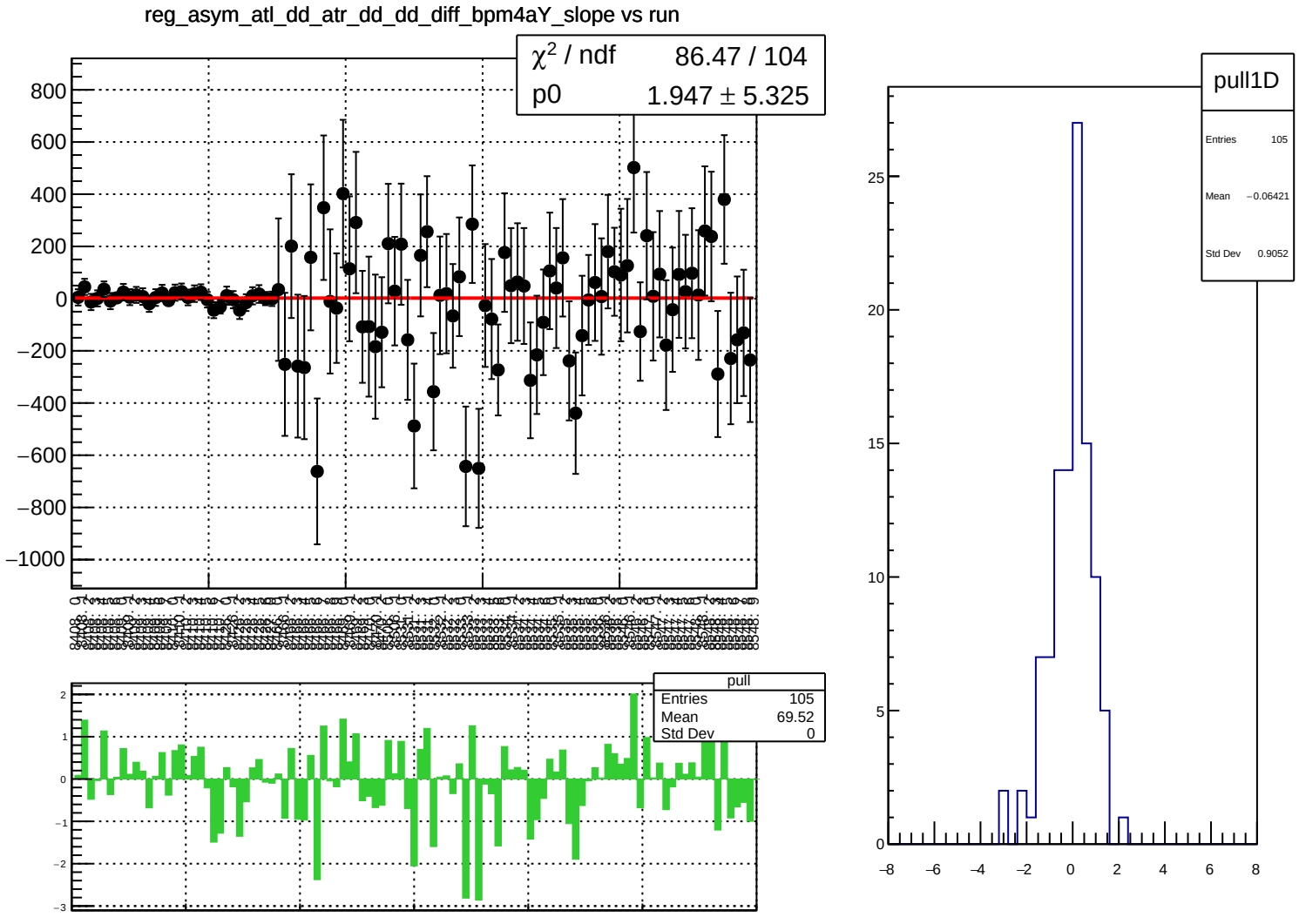

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 228.2 / 104
p0 −161.4 ± 8.823
400
200
0
−200
−400
pull
Entries 105
Mean 104.8
Std Dev 0
4
3
2
1
0
−1

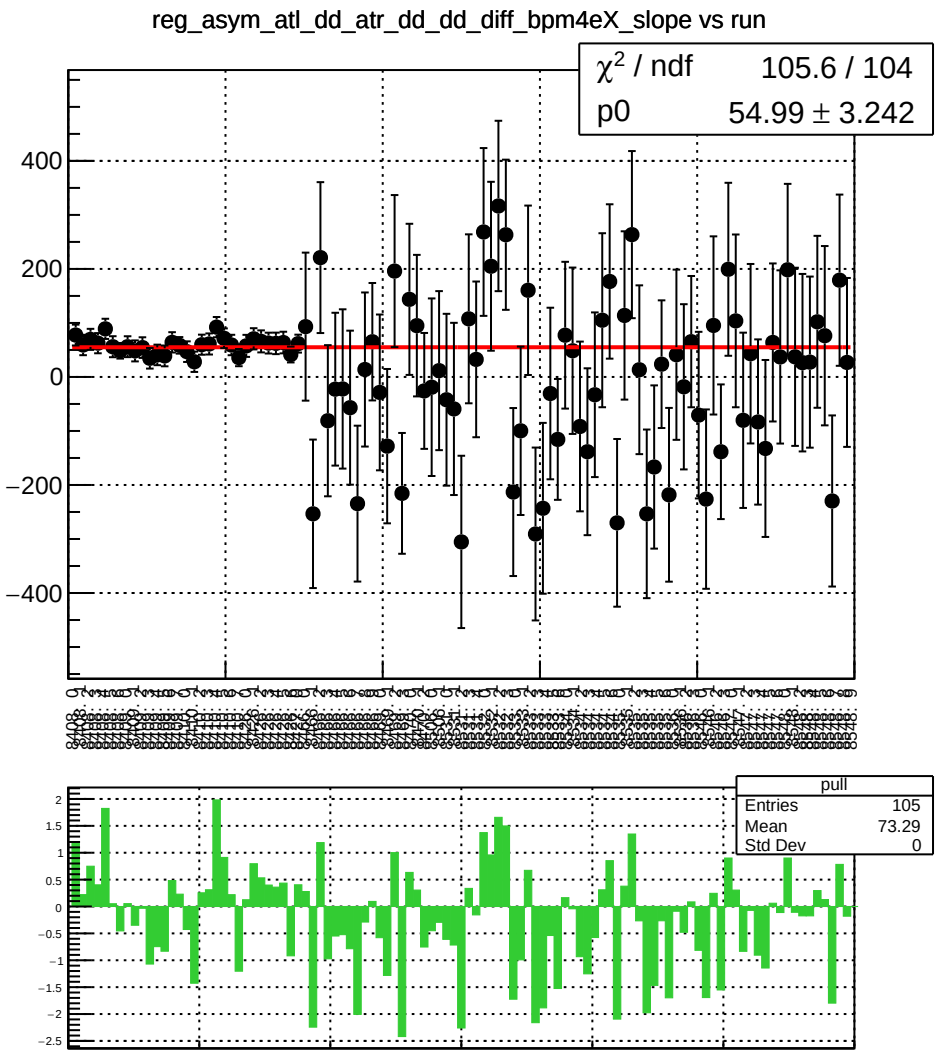

pull1D
Entries 105
Mean 0.5168
Std Dev 1.38
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

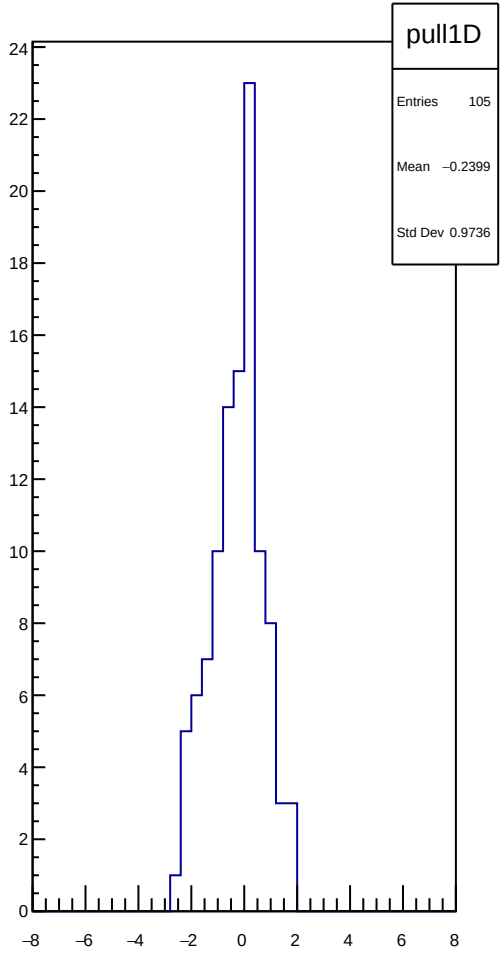

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 72.41 / 104
p0 −12.65 ± 15.11
pull
Entries 105
Mean 79.55
Std Dev 0
pull1D
Entries 105
Mean 0.0208
Std Dev 0.8302

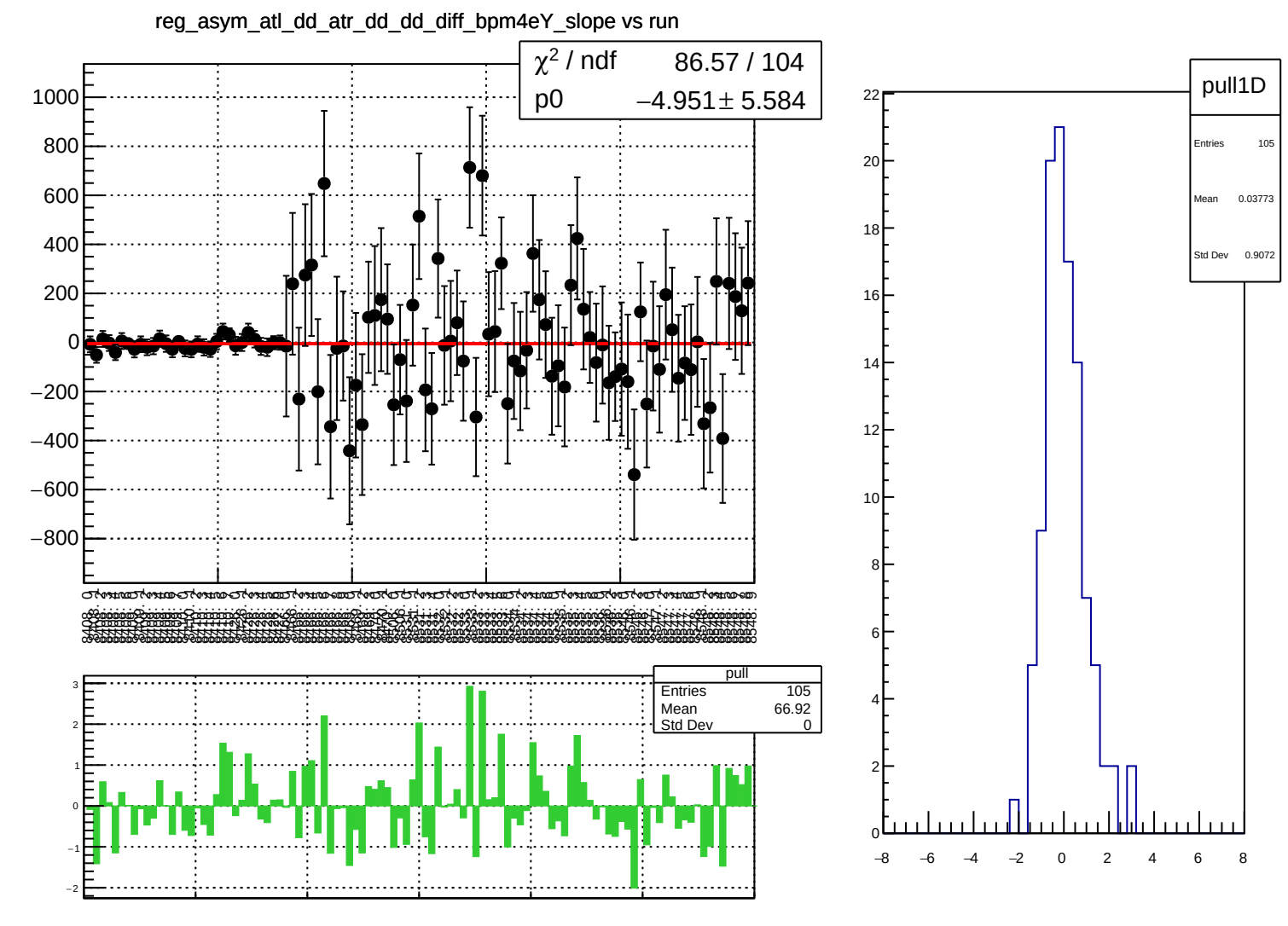

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 5818 / 104
p0 86.03 ± 0.9227
150
100
50
0
−50
pull
Entries 105
Mean 105.7
Std Dev 0
10
5
0
−5
−10
pull1D
Entries 105
Mean −2.612
Std Dev 6.421
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

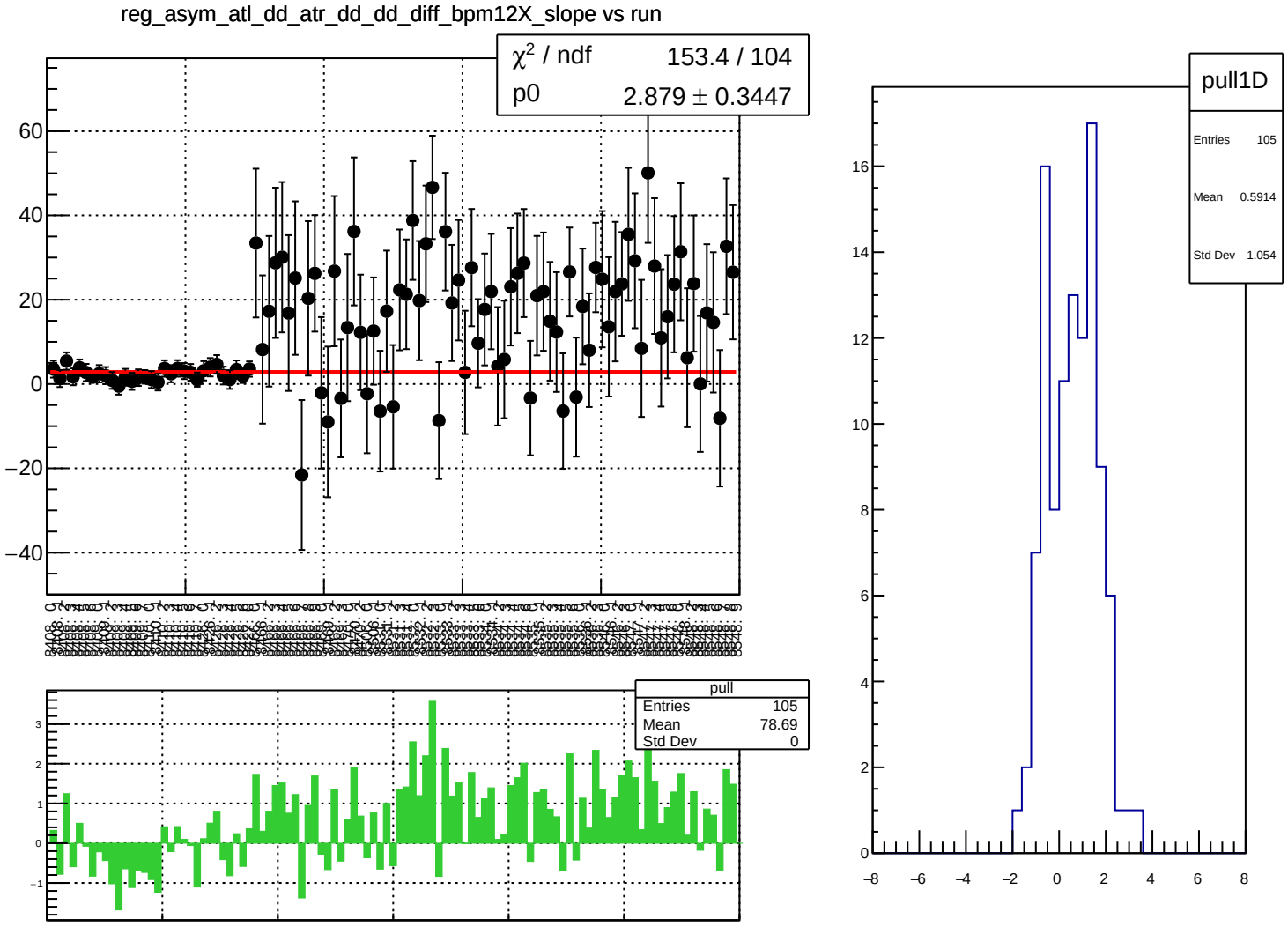

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 103.4 / 104
p0 9.764 ± 2.887
600
400
200
0
−200
−400
pull
Entries 105
Mean 73.31
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 105
Mean 0.181
Std Dev 0.9755
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

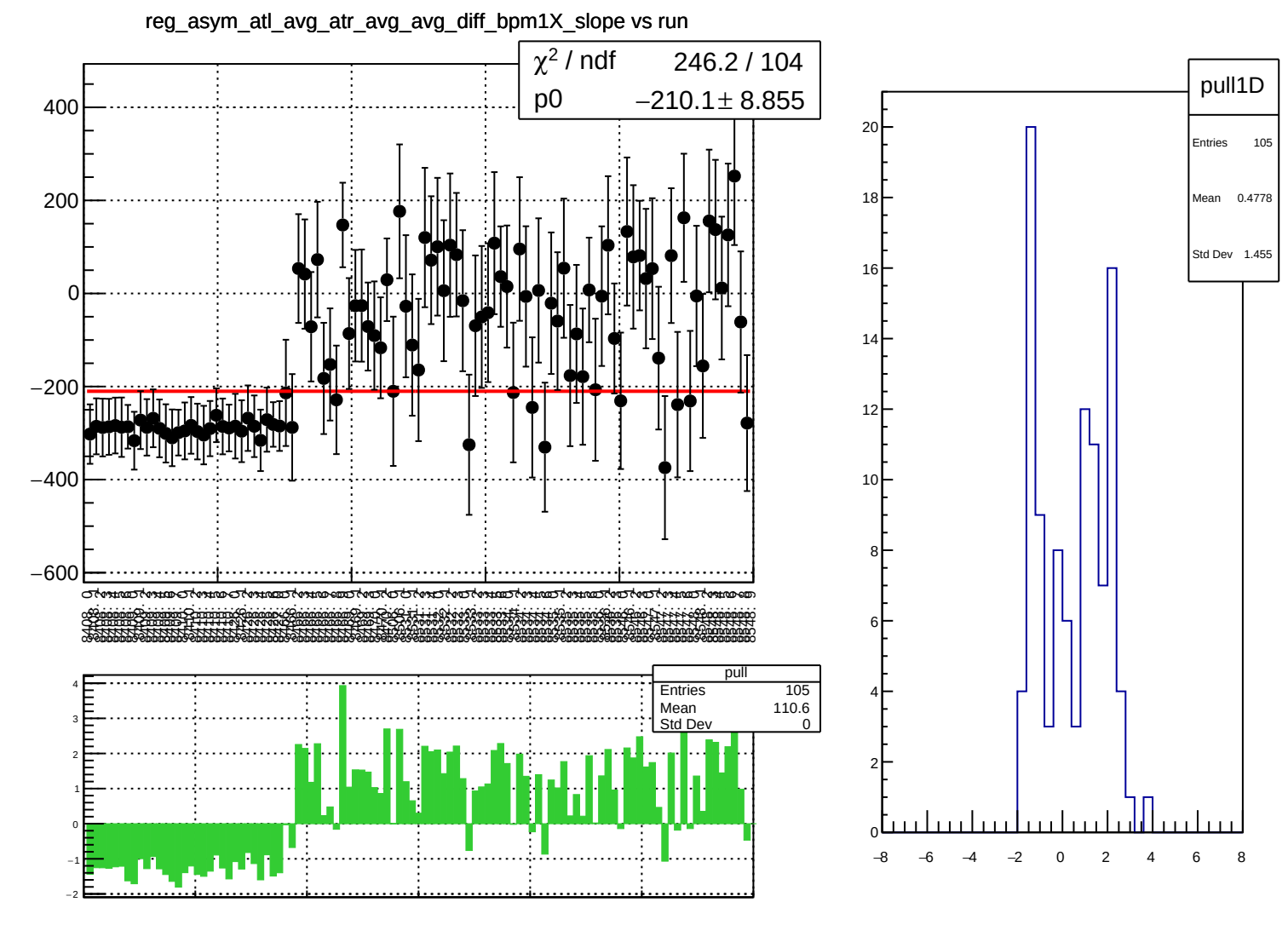

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 86.47 / 104
p0 1.947 ± 5.325
800
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 105
Mean 69.52
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 105
Mean −0.06421
Std Dev 0.9052
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

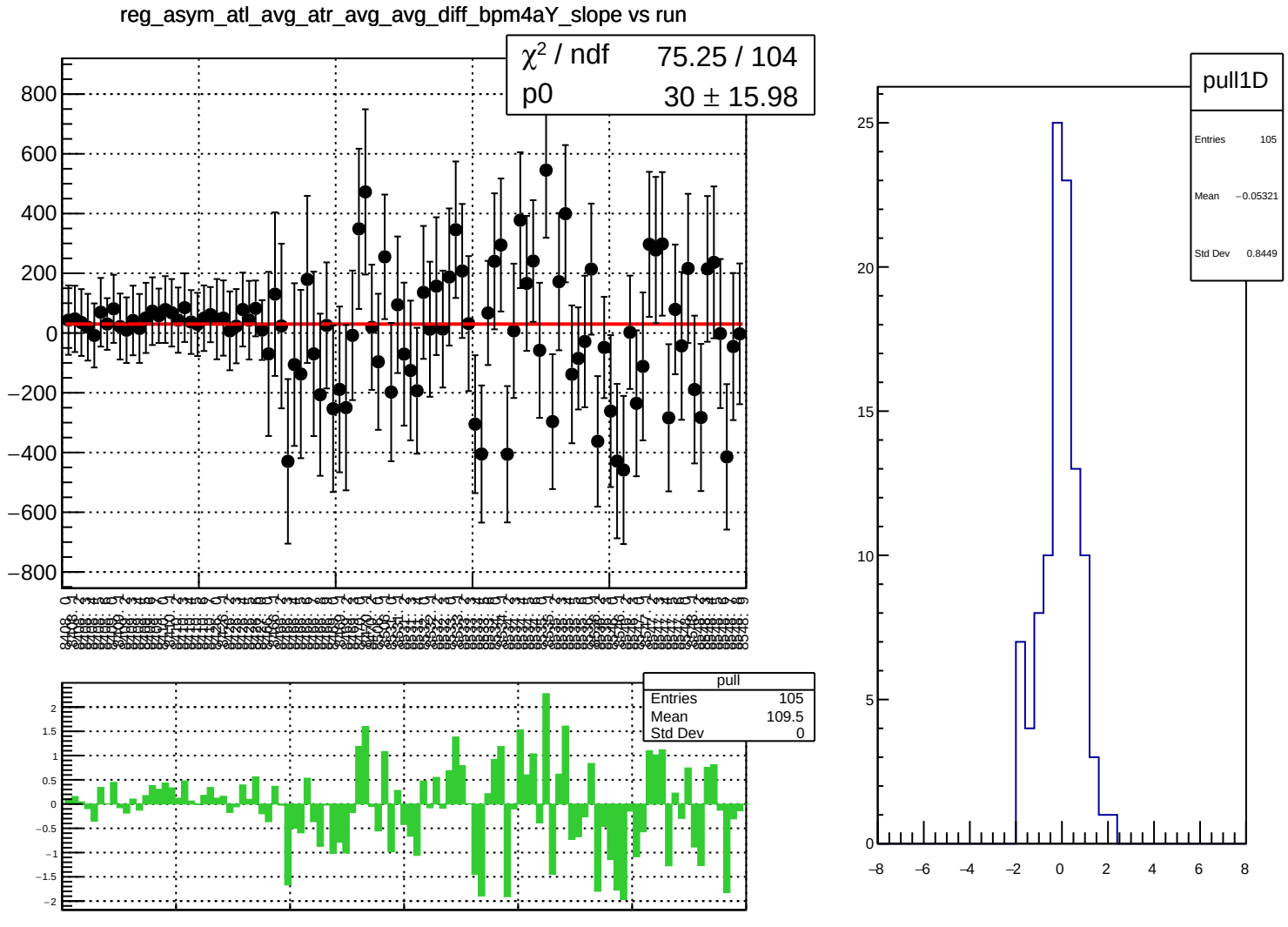

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 105.6 / 104
p0 54.99 ± 3.242
400
200
0
−200
−400
pull
Entries 105
Mean 73.29
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

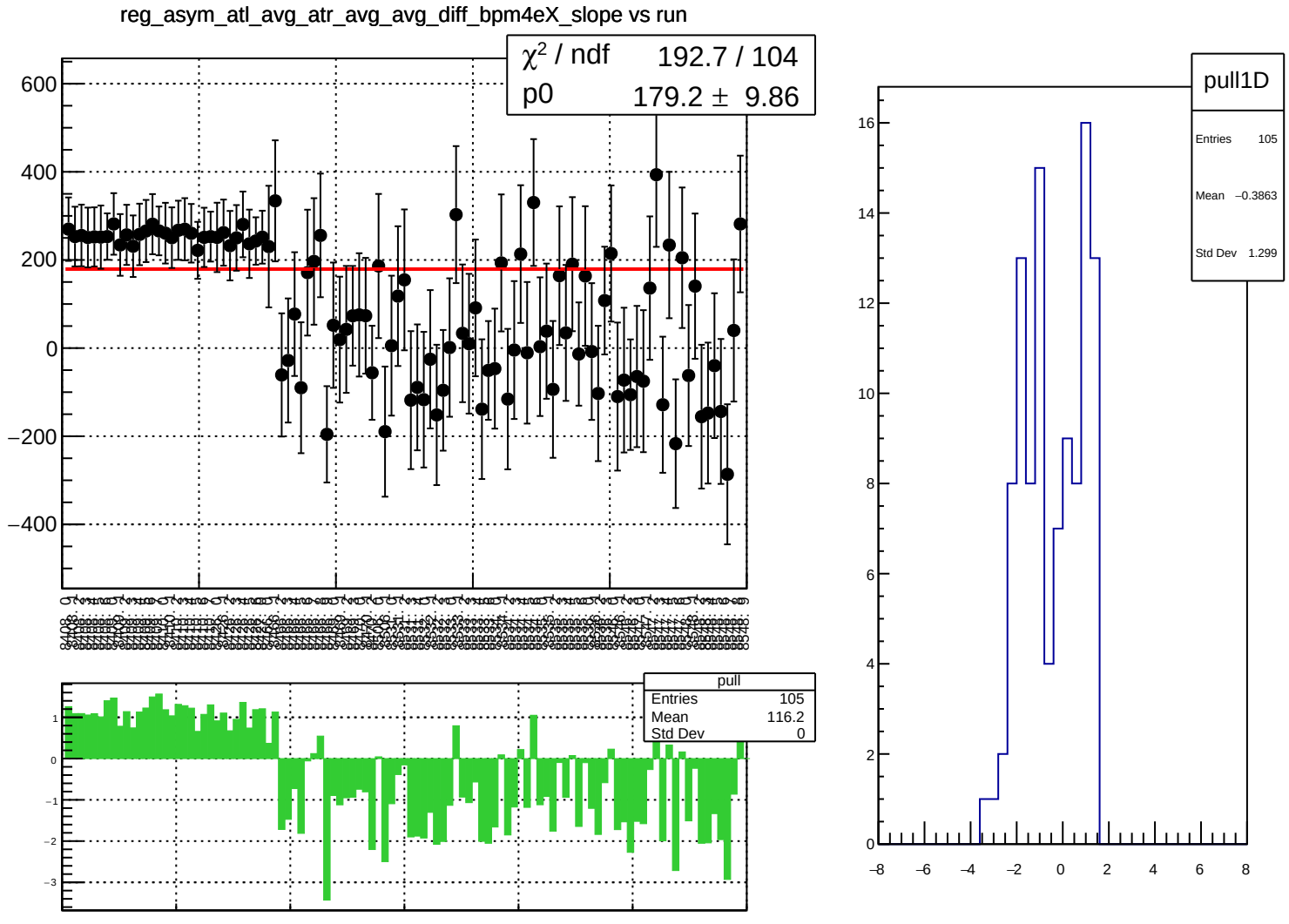

pull1D
Entries 105
Mean −0.2399
Std Dev 0.9736
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

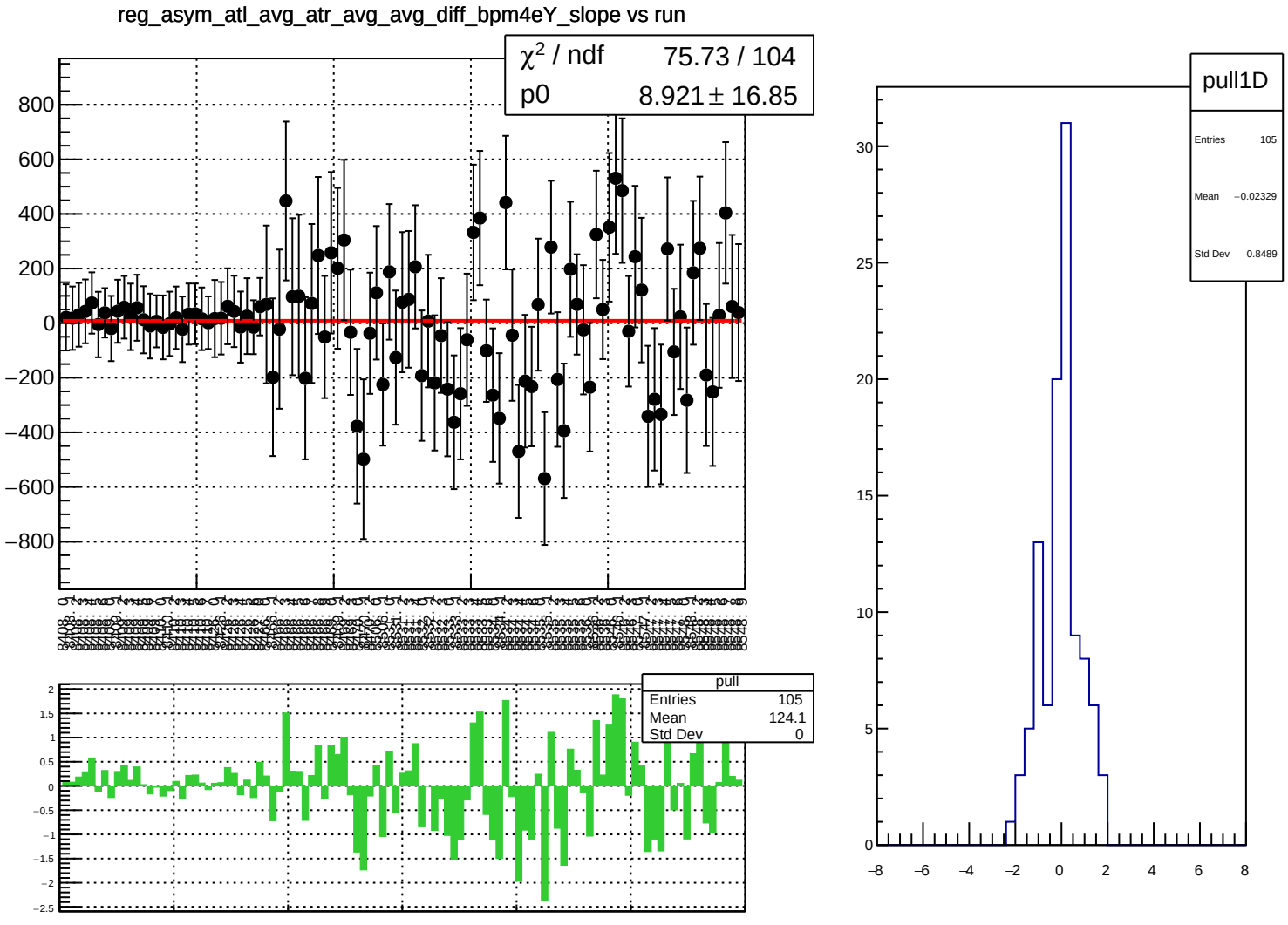

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 86.57 / 104
p0 −4.951 ± 5.584
pull
Entries 105
Mean 66.92
Std Dev 0
pull1D
Entries 105
Mean 0.03773
Std Dev 0.9072

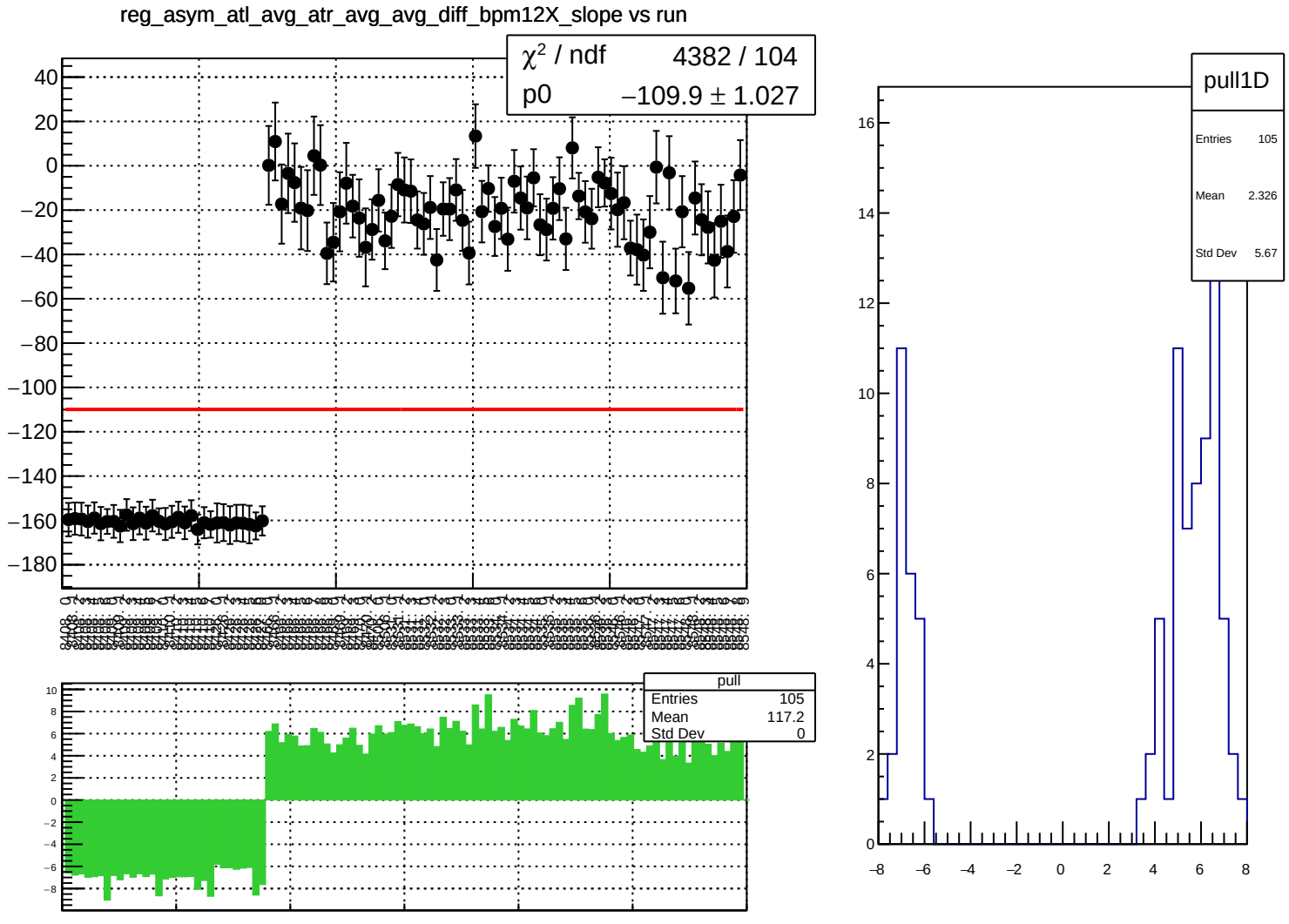

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 153.4 / 104
p0 2.879 ± 0.3447
pull
Entries 105
Mean 78.69
Std Dev 0
pull1D
Entries 105
Mean 0.5914
Std Dev 1.054

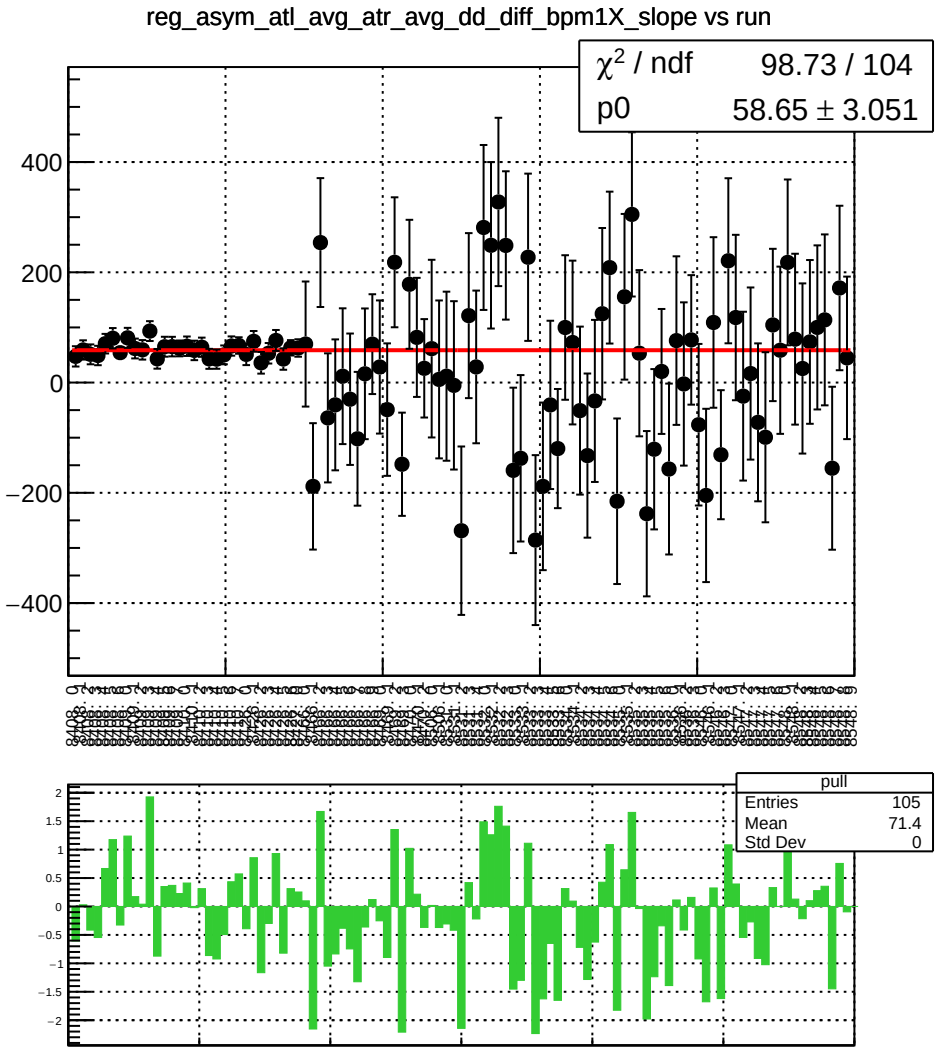

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 246.2 / 104
p0 −210.1± 8.855
400
200
0
−200
−400
−600
pull
Entries 105
Mean 110.6
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.4778
Std Dev 1.455
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

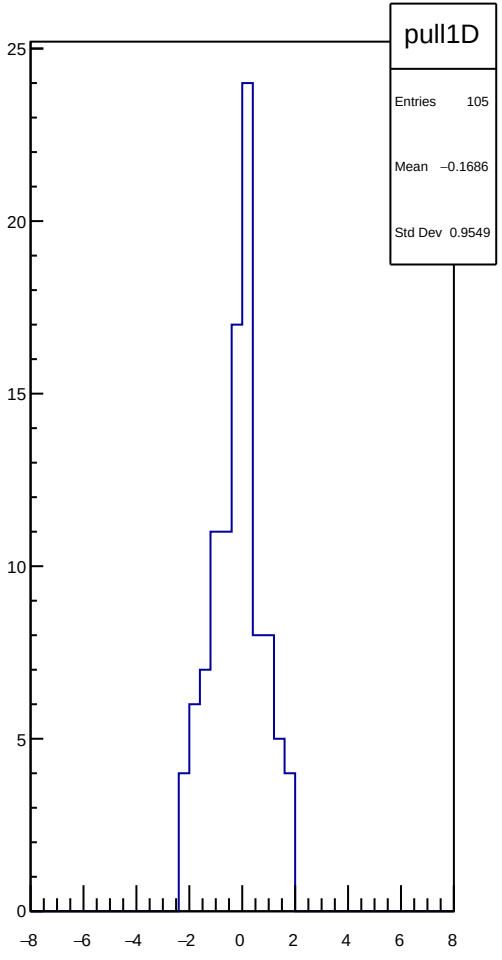

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 75.25 / 104
p0 30 ± 15.98
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 105
Mean 109.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 105
Mean −0.05321
Std Dev 0.8449
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

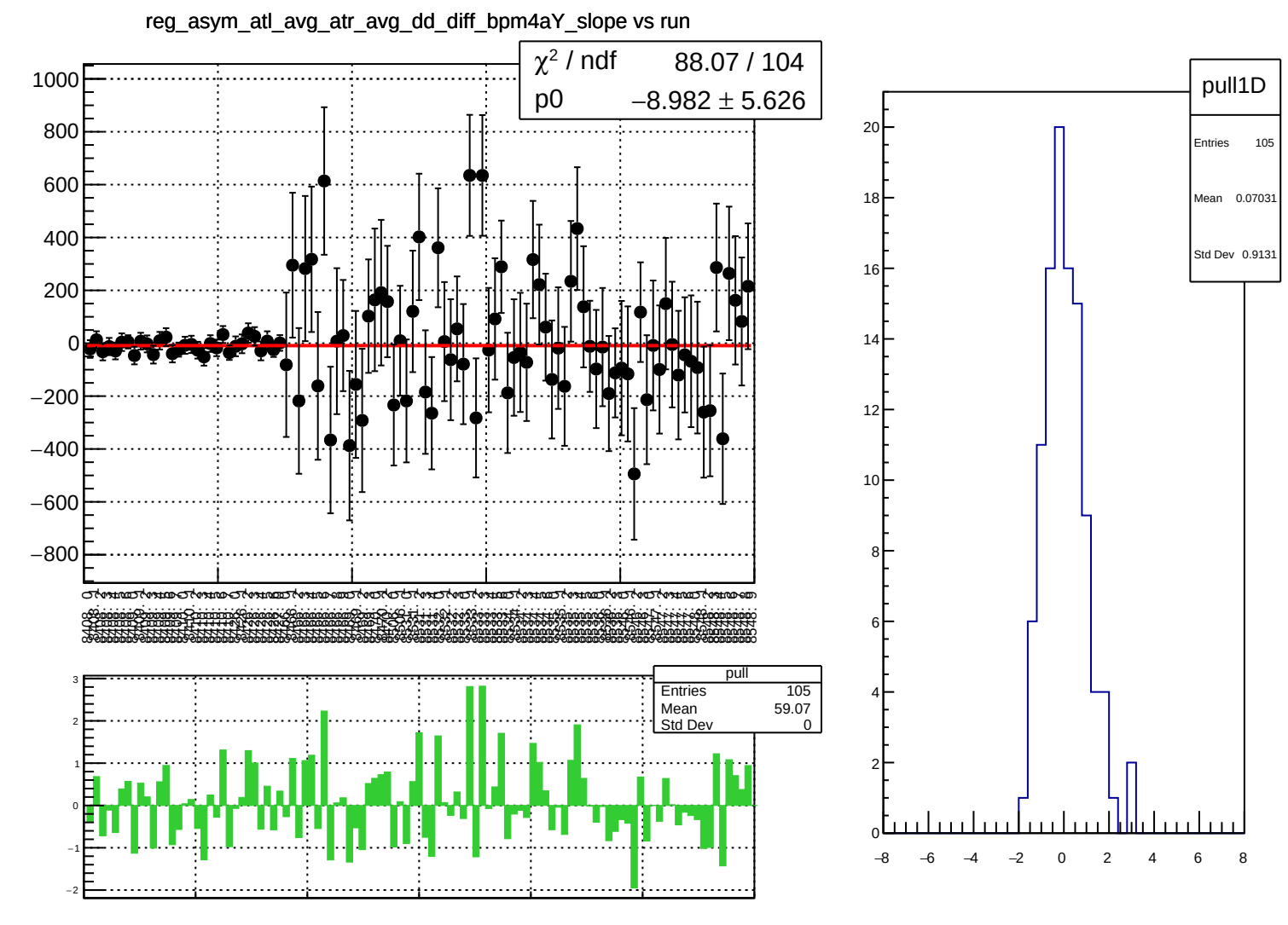

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 192.7 / 104
p0 179.2 ± 9.86
600
400
200
0
−200
−400
pull
Entries 105
Mean 116.2
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 105
Mean −0.3863
Std Dev 1.299
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

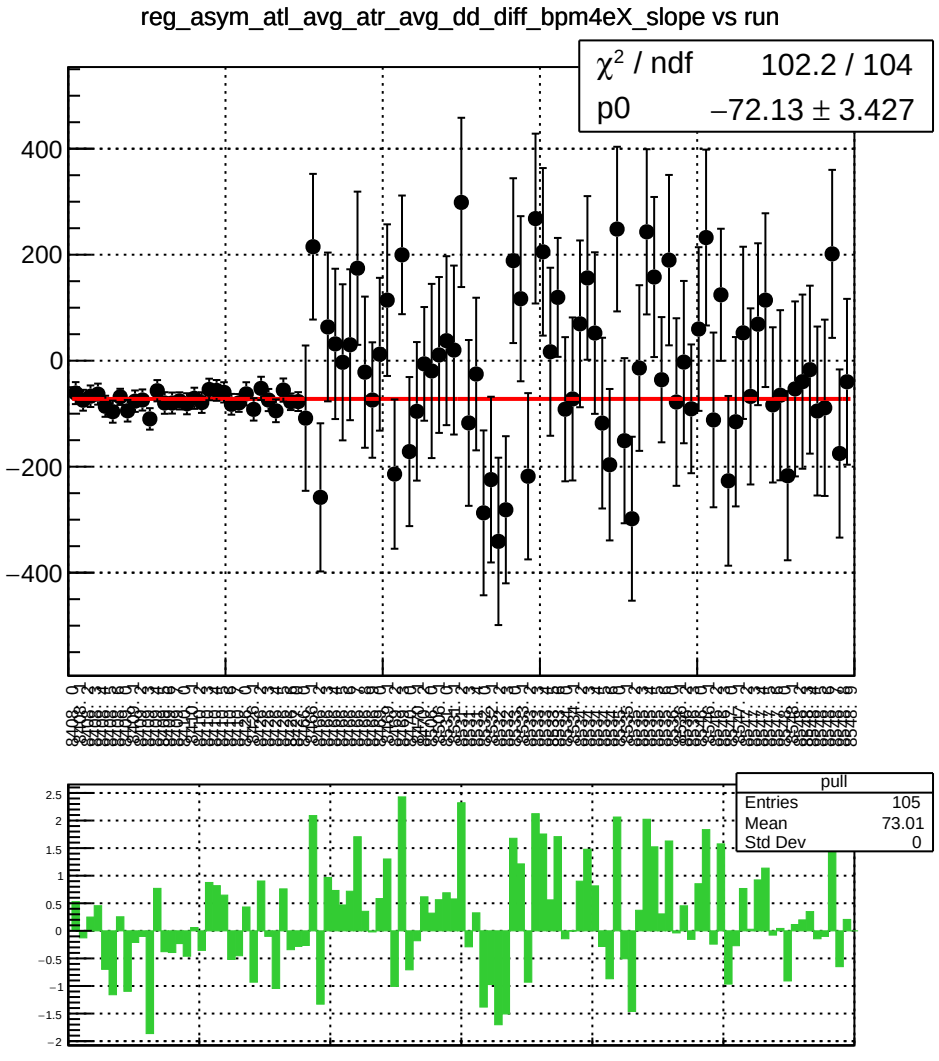

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 75.73 / 104
p0 8.921 ± 16.85
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 105
Mean 124.1
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 105
Mean −0.02329
Std Dev 0.8489
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

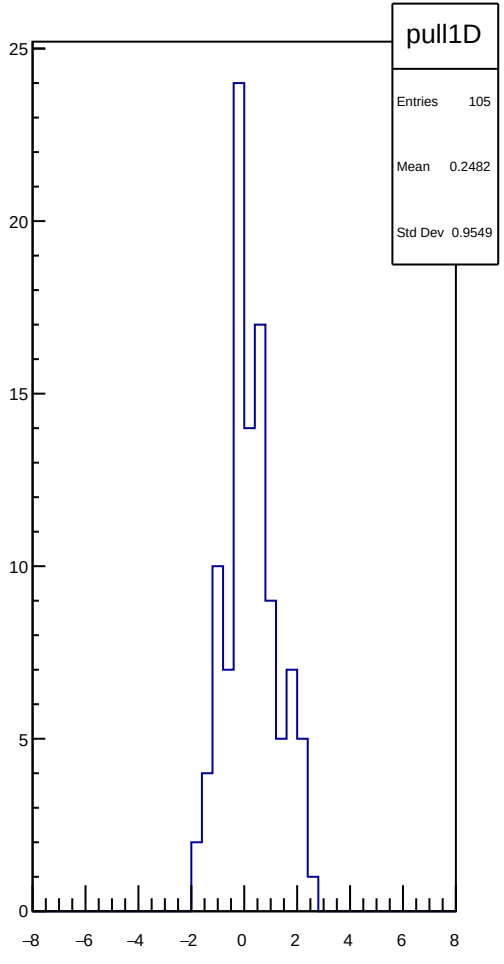

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 4382 / 104
p0 −109.9 ± 1.027
pull
Entries 105
Mean 117.2
Std Dev 0
pull1D
Entries 105
Mean 2.326
Std Dev 5.67

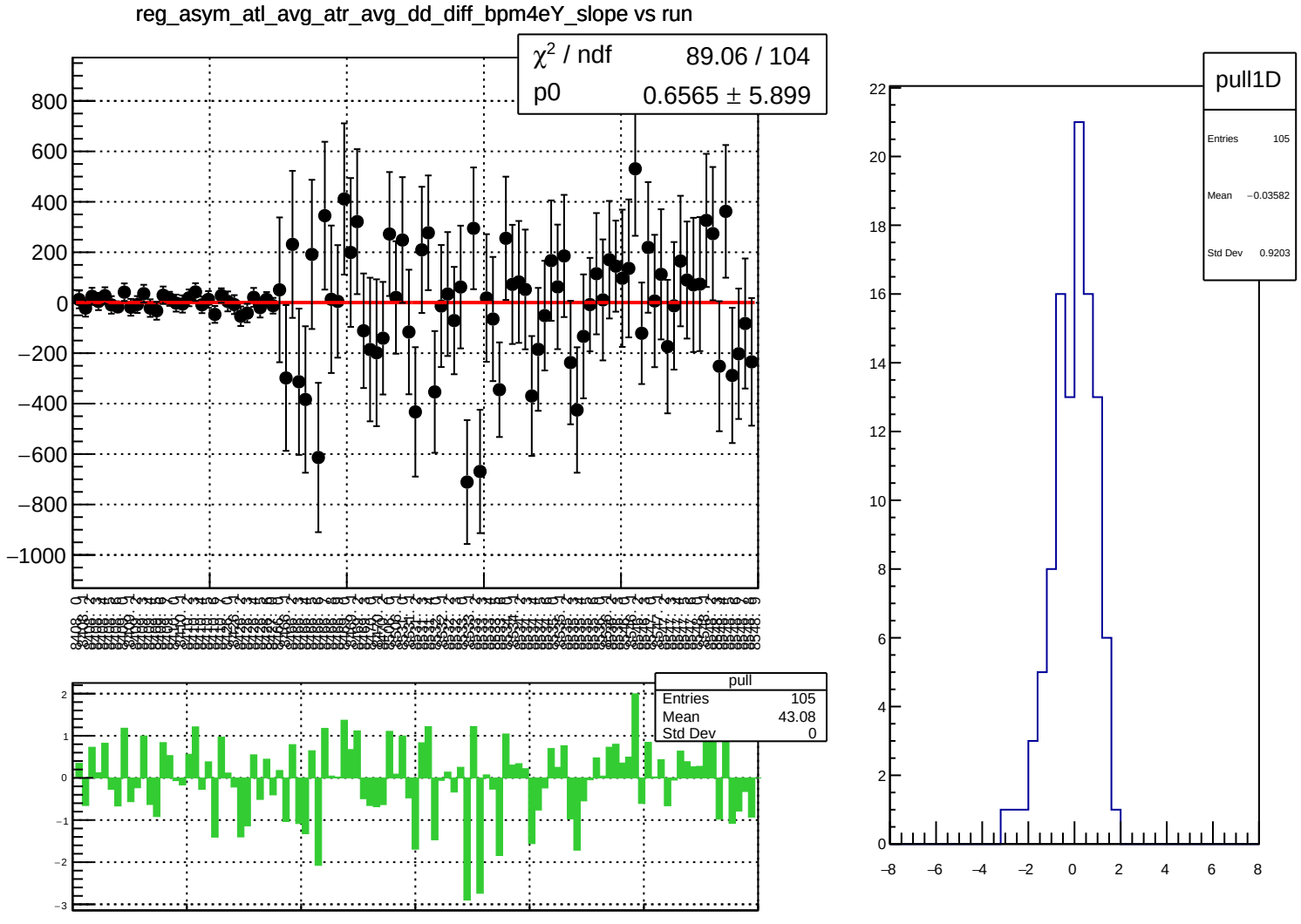

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 98.73 / 104
p0 58.65 ± 3.051
400
200
0
−200
−400
pull
Entries 105
Mean 71.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

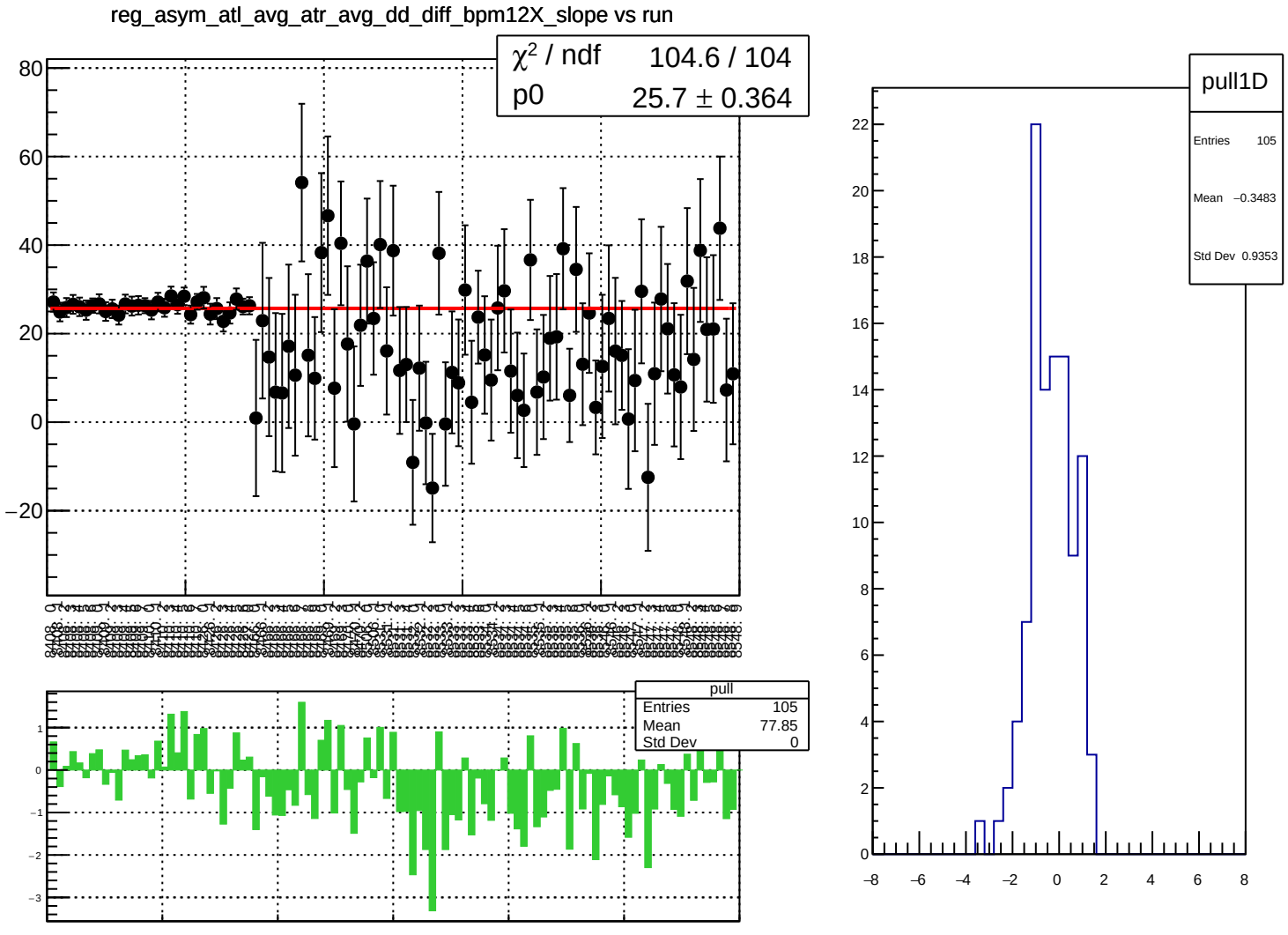

pull1D
Entries 105
Mean −0.1686
Std Dev 0.9549
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

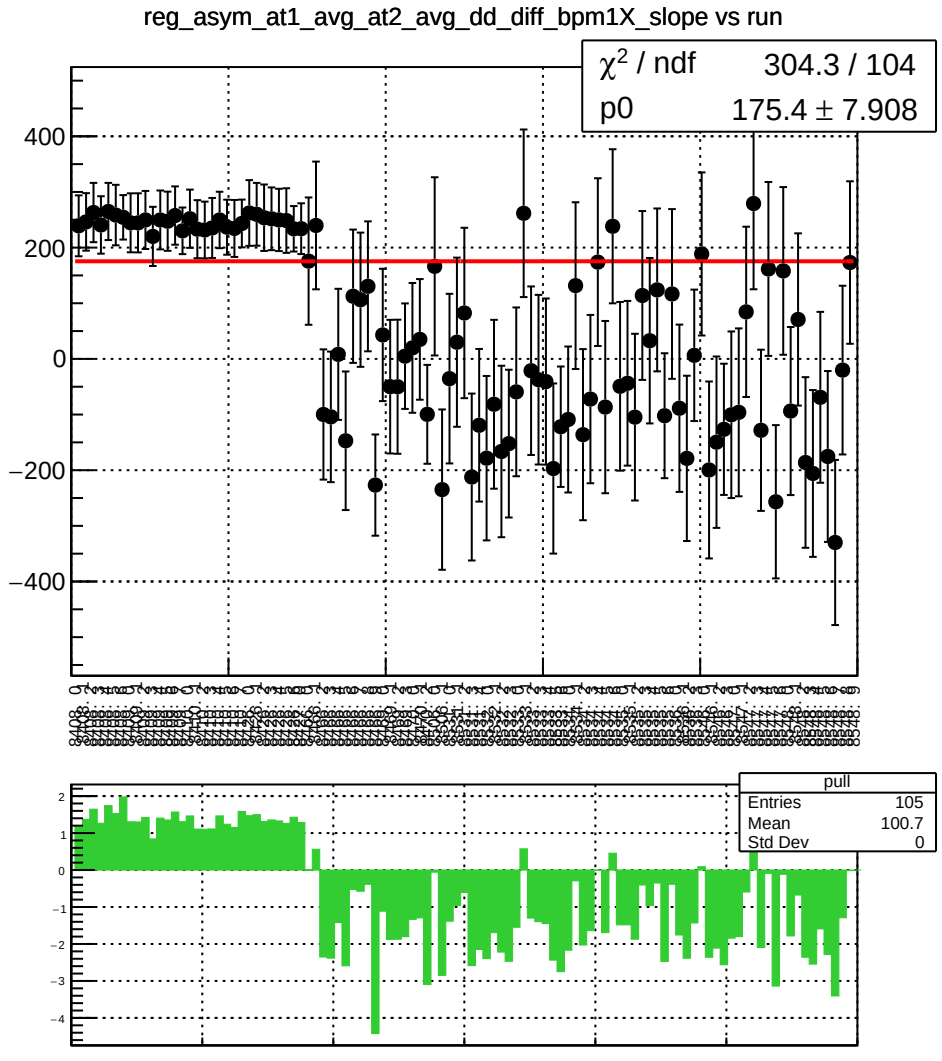

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 88.07 / 104
p0 −8.982 ± 5.626
pull
Entries 105
Mean 59.07
Std Dev 0
pull1D
Entries 105
Mean 0.07031
Std Dev 0.9131

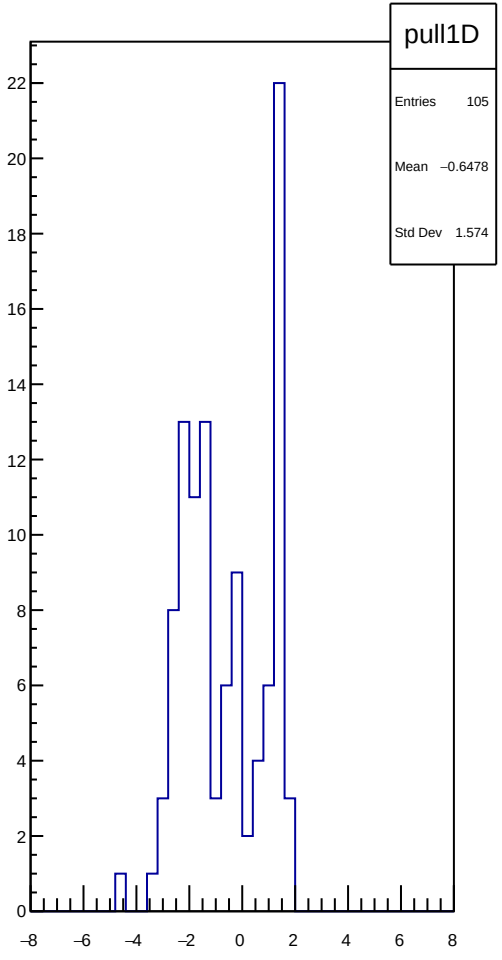

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 102.2 / 104
p0 −72.13 ± 3.427
400
200
0
−200
−400
pull
Entries 105
Mean 73.01
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

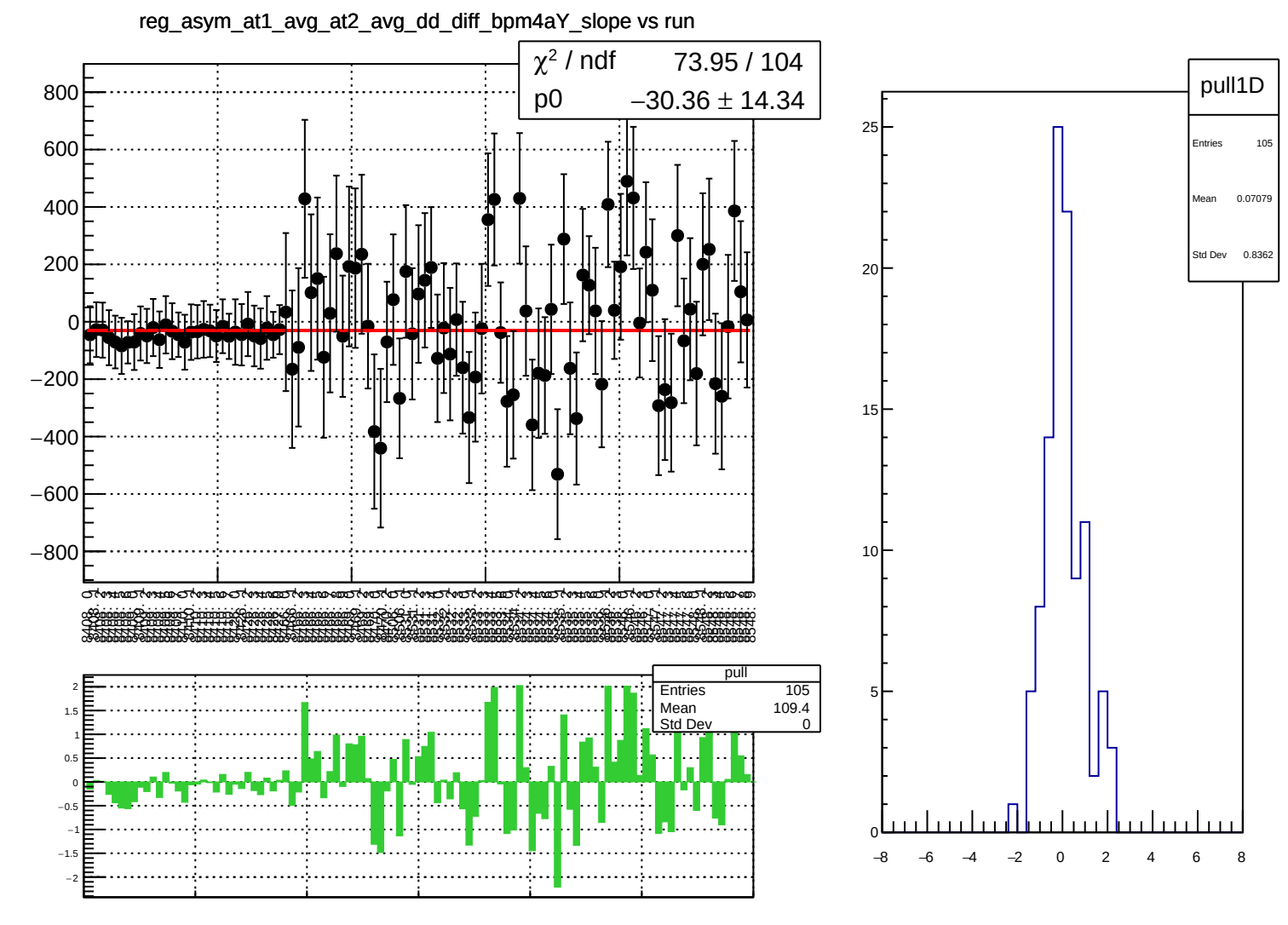

pull1D
Entries 105
Mean 0.2482
Std Dev 0.9549
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

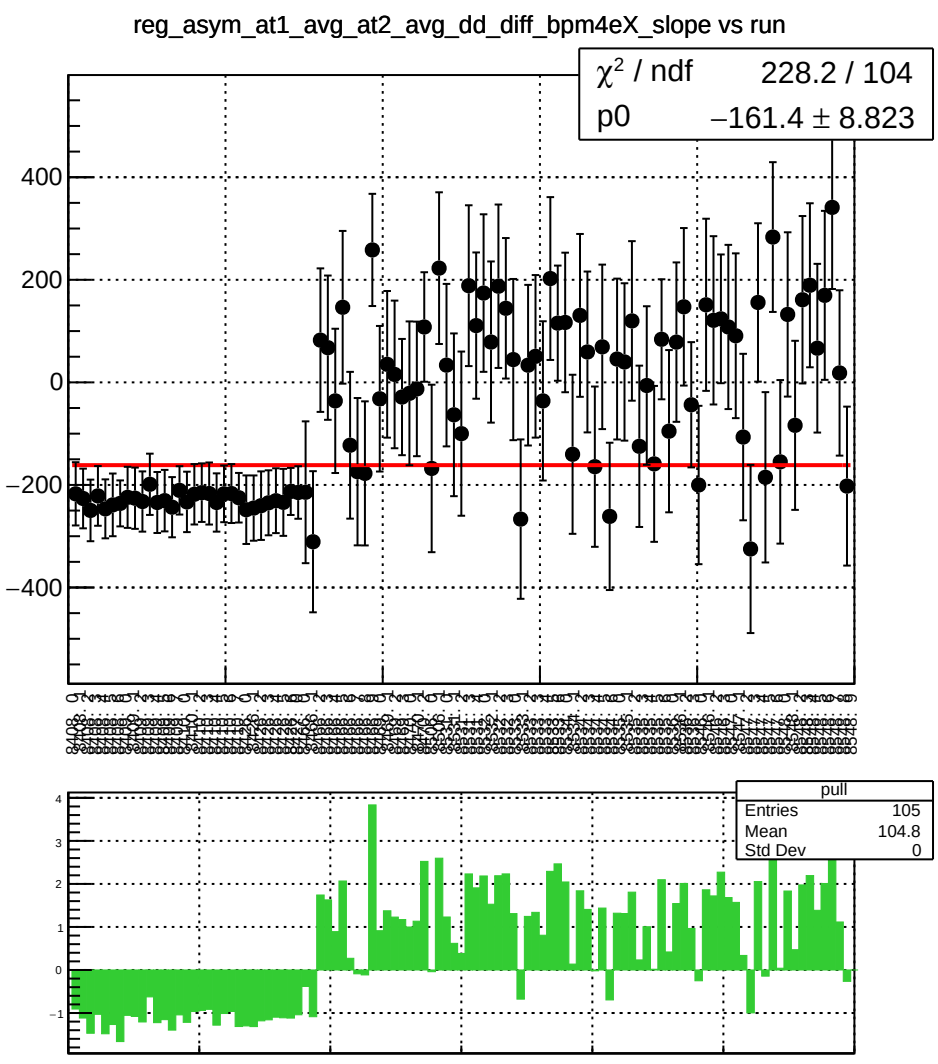

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 89.06 / 104
p0 0.6565 ± 5.899
pull
Entries 105
Mean 43.08
Std Dev 0
pull1D
Entries 105
Mean −0.03582
Std Dev 0.9203

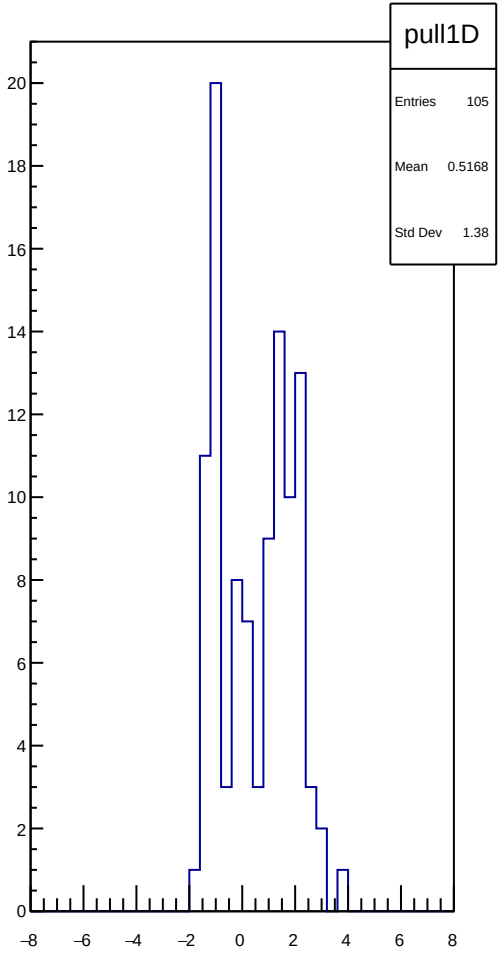

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 104.6 / 104
p0 25.7 ± 0.364
pull
Entries 105
Mean 77.85
Std Dev 0
pull1D
Entries 105
Mean −0.3483
Std Dev 0.9353

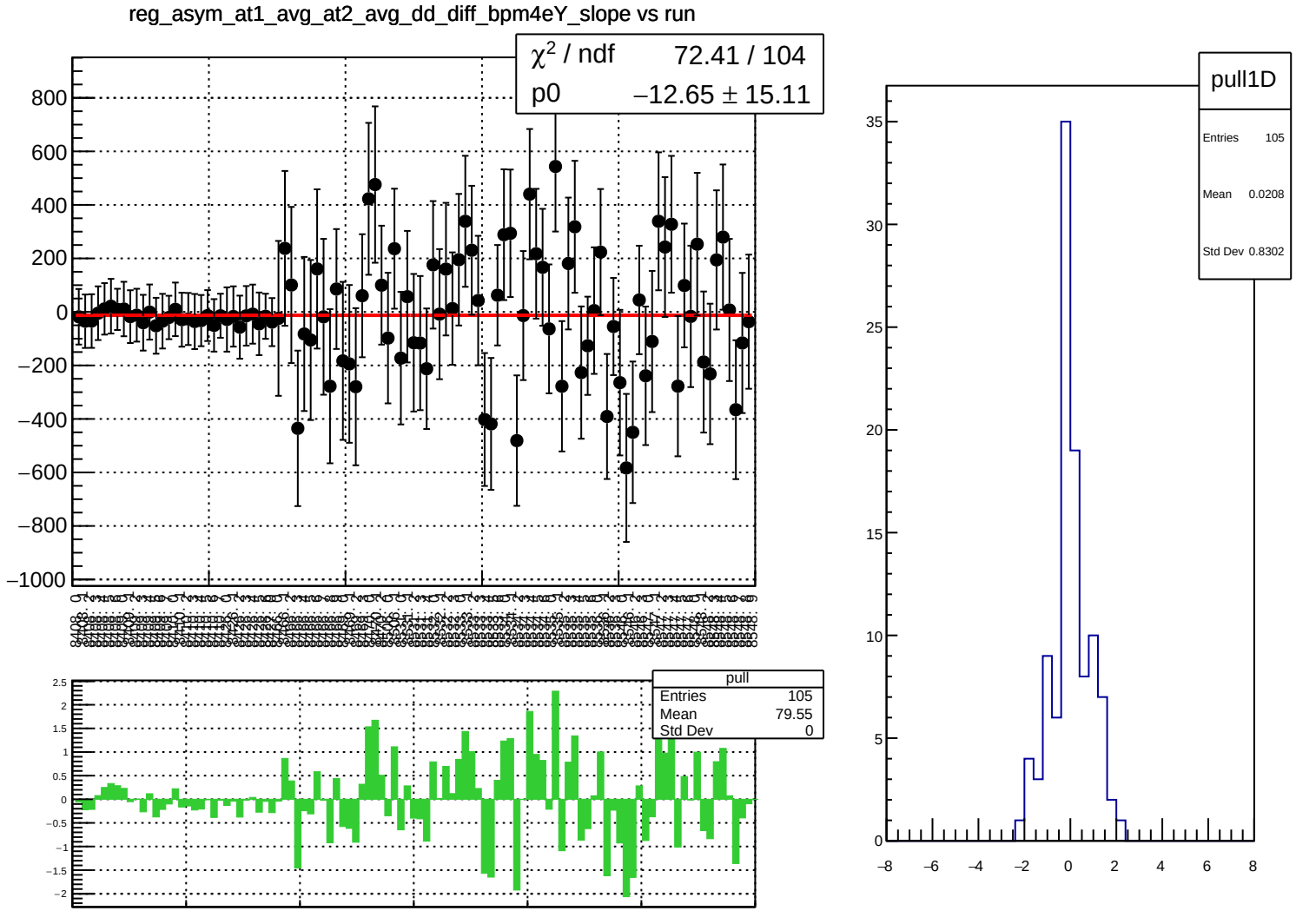

reg_asym_at1_avg_at2_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 304.3 / 104
p0 175.4 ± 7.908
400
200
0
−200
−400
pull
Entries 105
Mean 100.7
Std Dev 0
2
1
0
−1
−2
−3
−4

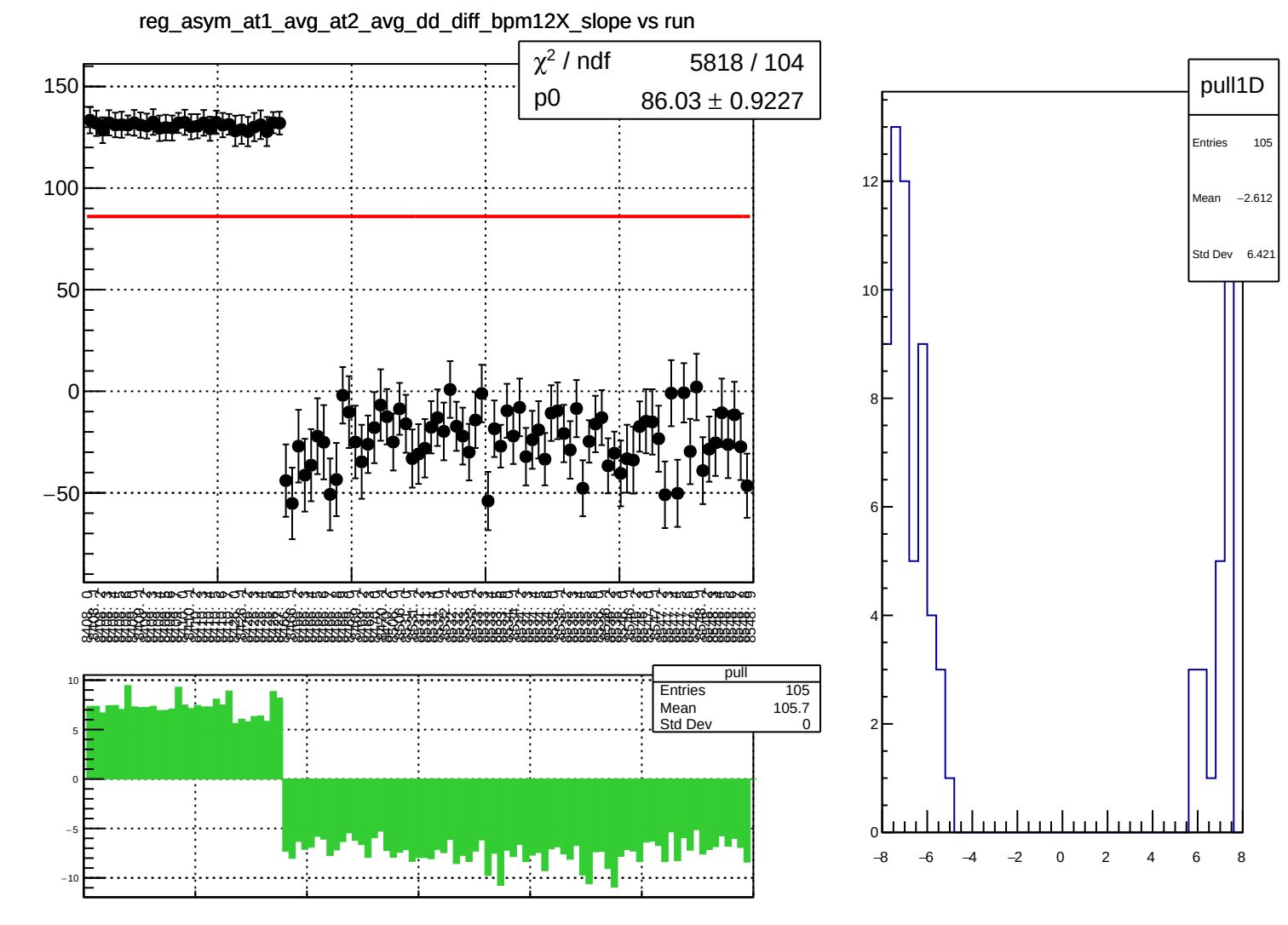

pull1D
Entries 105
Mean −0.6478
Std Dev 1.574
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

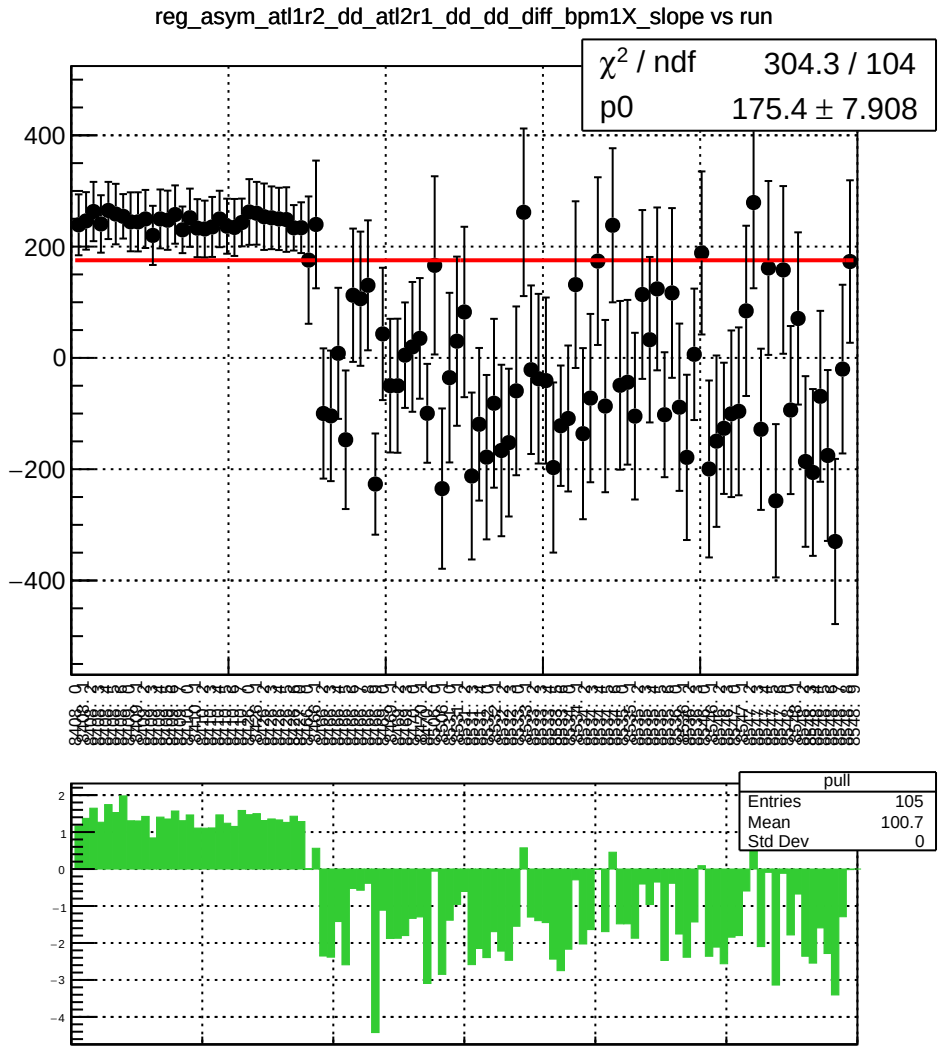

reg_asym_at1_avg_at2_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 73.95 / 104
p0 −30.36 ± 14.34
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 105
Mean 109.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 105
Mean 0.07079
Std Dev 0.8362
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

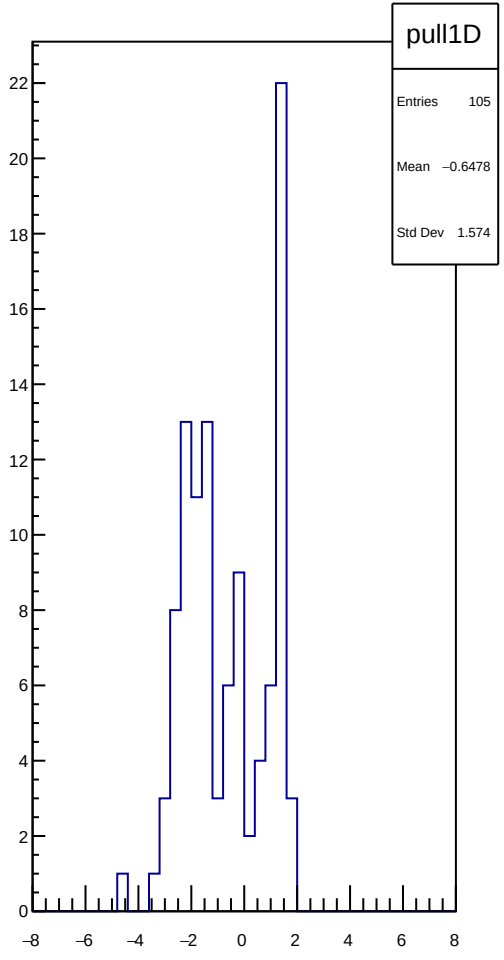

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 228.2 / 104
p0 −161.4 ± 8.823
400
200
0
−200
−400
pull
Entries 105
Mean 104.8
Std Dev 0
4
3
2
1
0
−1

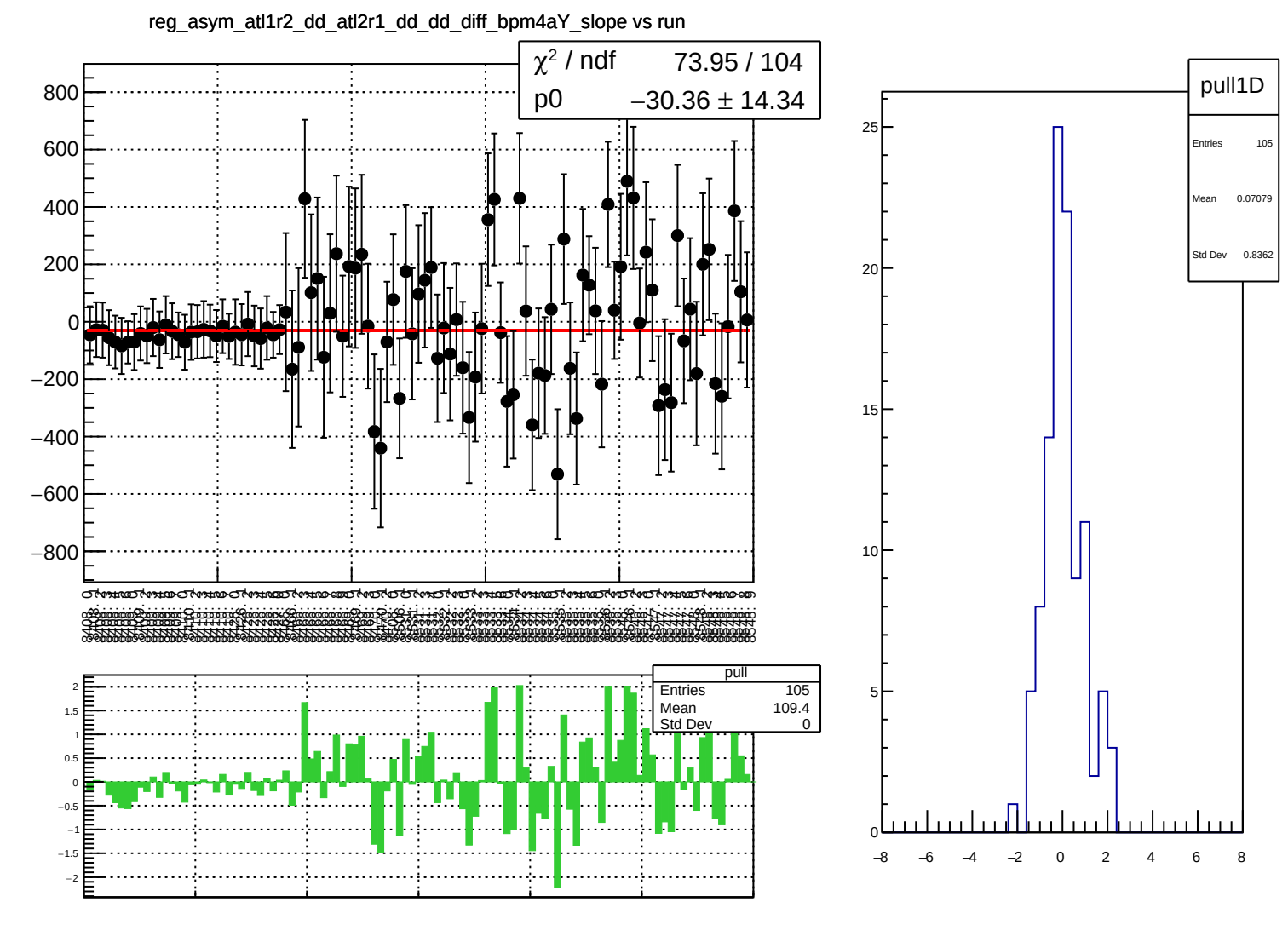

pull1D
Entries 105
Mean 0.5168
Std Dev 1.38
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

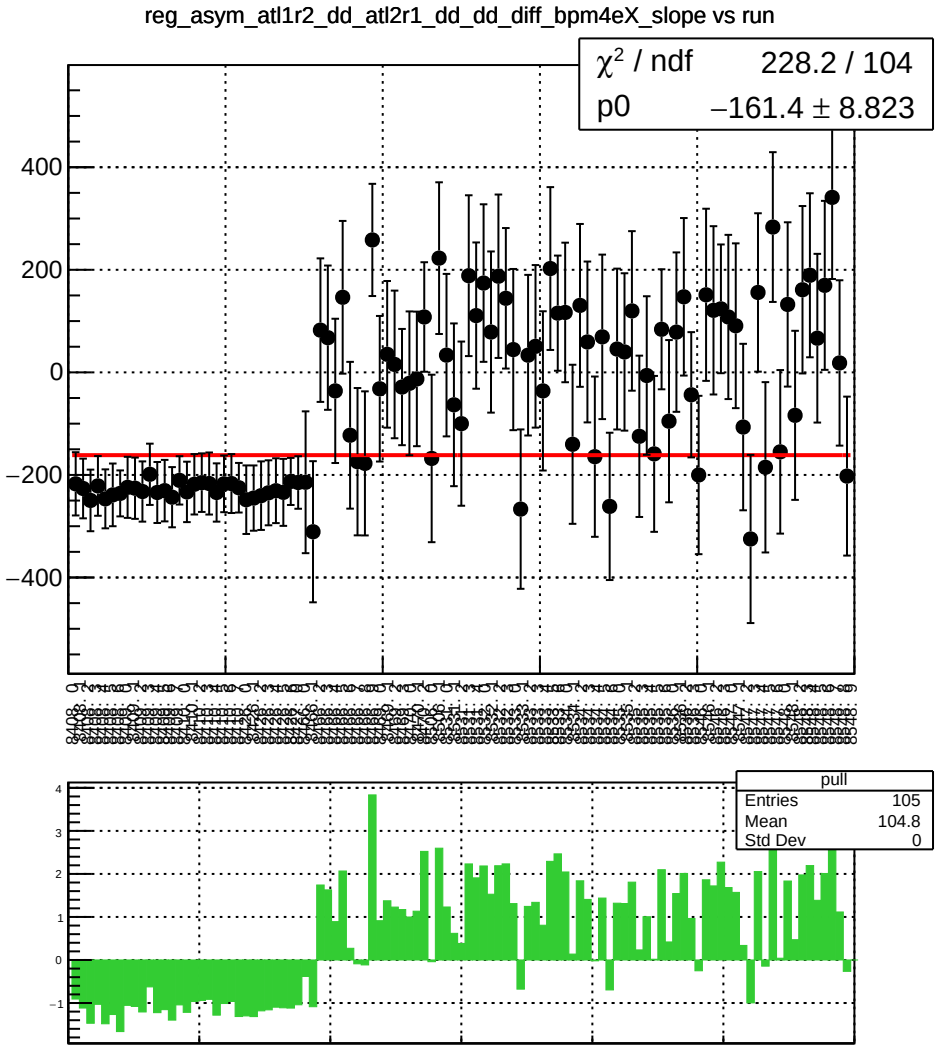

reg_asym_at1_avg_at2_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 72.41 / 104
p0 −12.65 ± 15.11
800
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 105
Mean 79.55
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 105
Mean 0.0208
Std Dev 0.8302
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

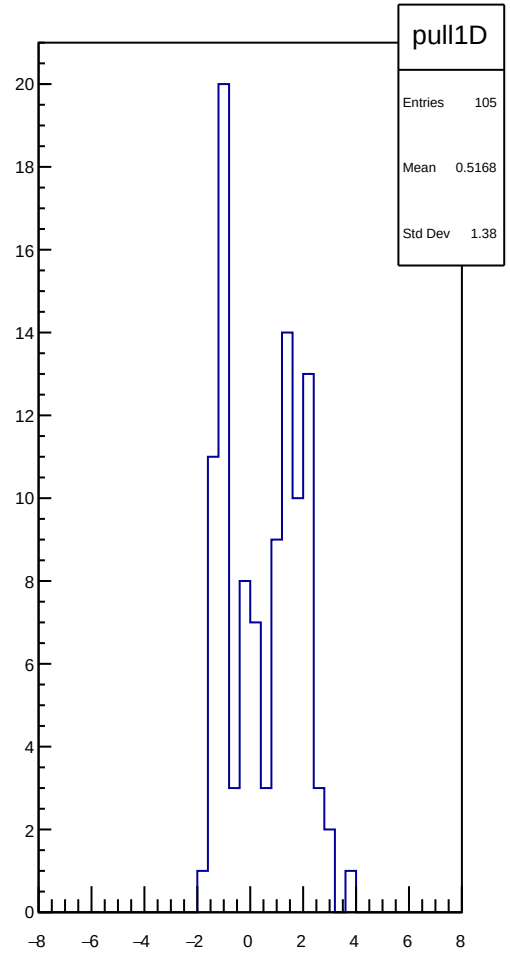

reg_asym_at1_avg_at2_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 5818 / 104
p0 86.03 ± 0.9227
150
100
50
0
−50
pull
Entries 105
Mean 105.7
Std Dev 0
10
5
0
−5
−10
pull1D
Entries 105
Mean −2.612
Std Dev 6.421
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

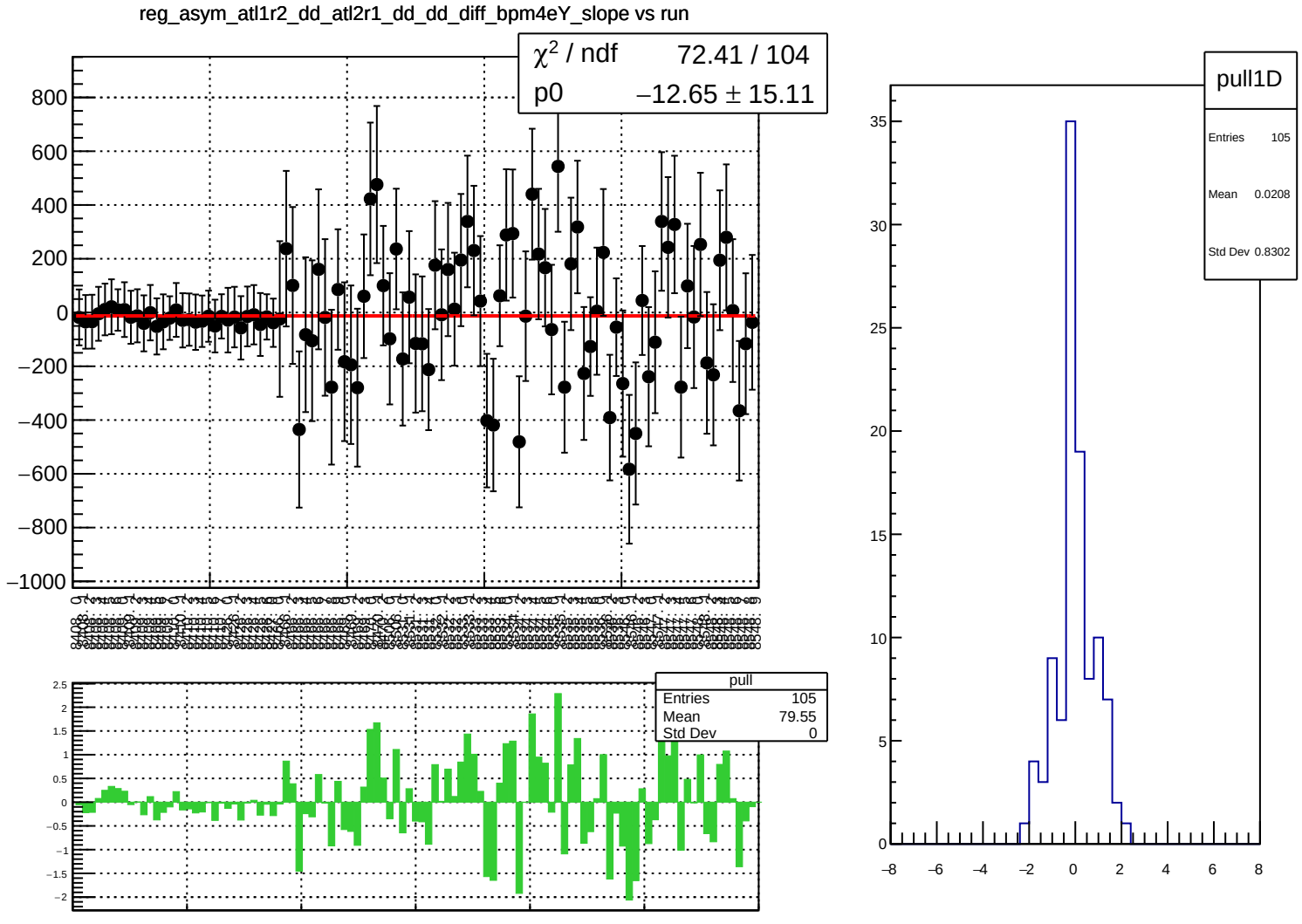

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 304.3 / 104
p0 175.4 ± 7.908
400
200
0
−200
−400
pull
Entries 105
Mean 100.7
Std Dev 0
2
1
0
−1
−2
−3
−4

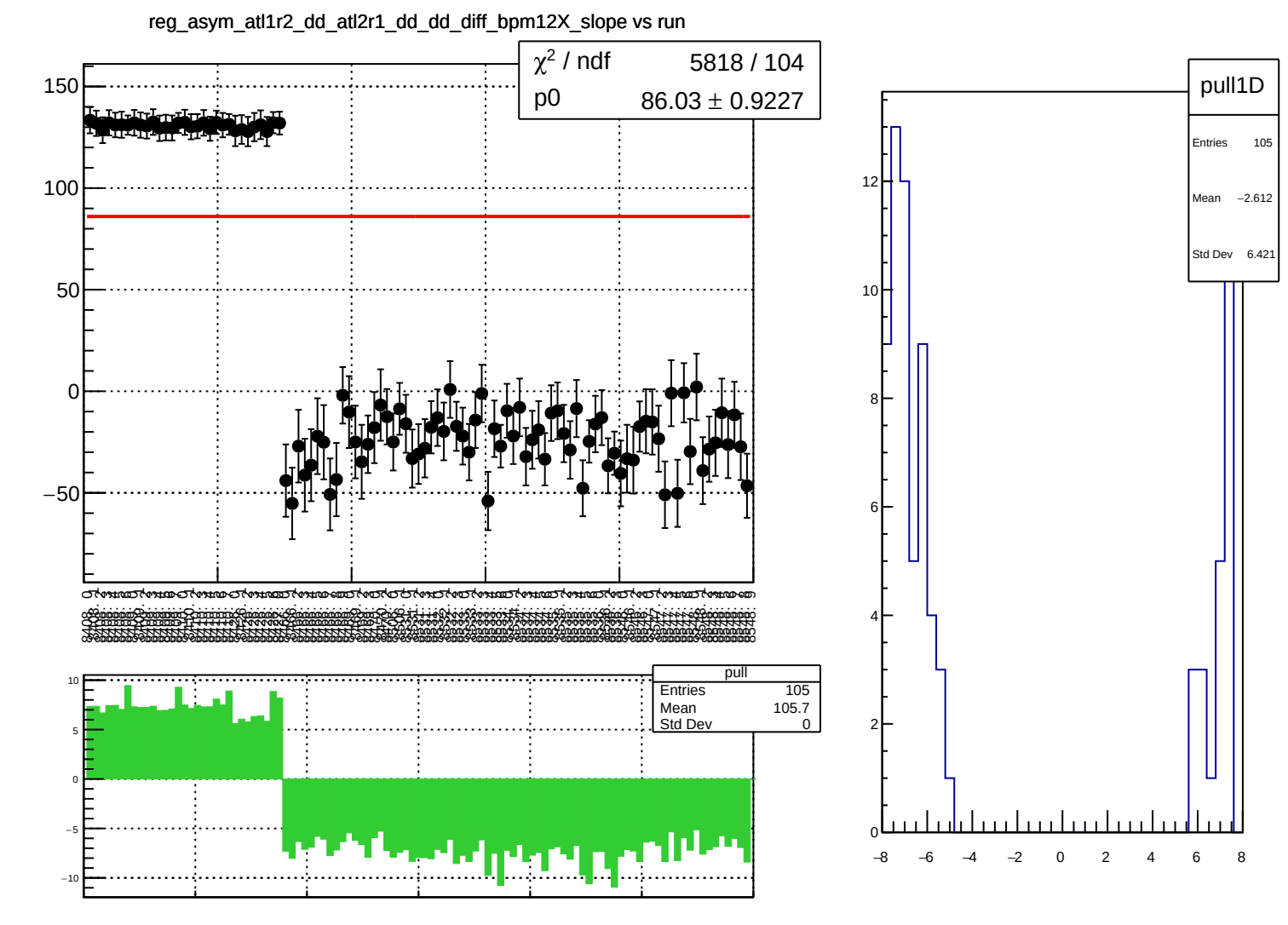

pull1D
Entries 105
Mean −0.6478
Std Dev 1.574
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

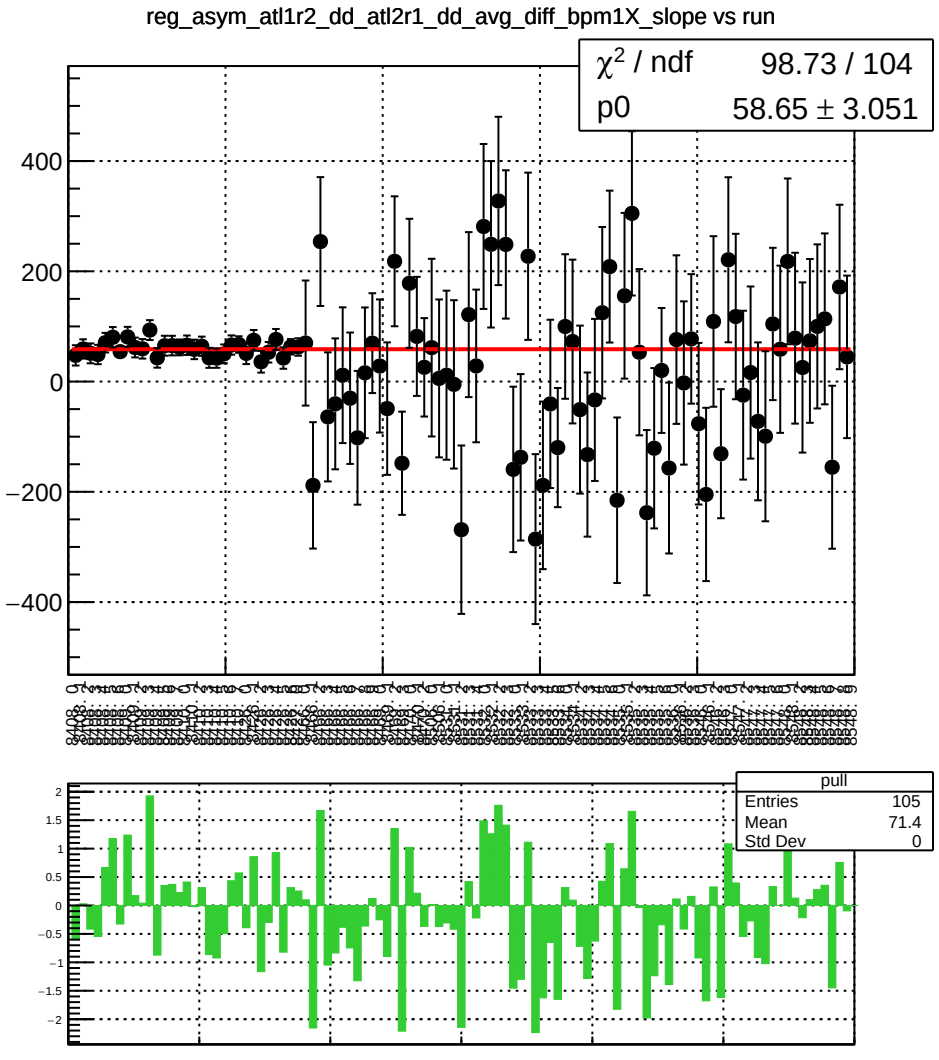

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 73.95 / 104
p0 −30.36 ± 14.34
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 105
Mean 109.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 105
Mean 0.07079
Std Dev 0.8362
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

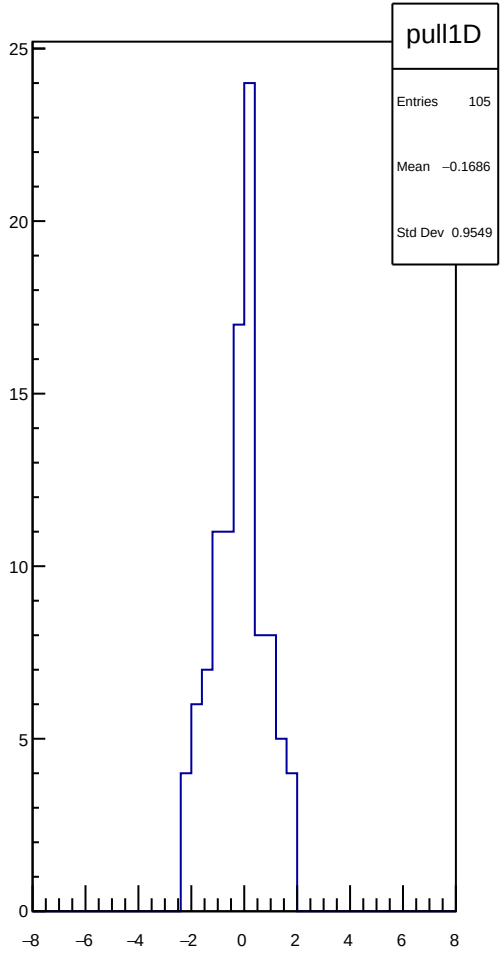

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 228.2 / 104
p0 −161.4 ± 8.823
400
200
0
−200
−400
pull
Entries 105
Mean 104.8
Std Dev 0
4
3
2
1
0
−1

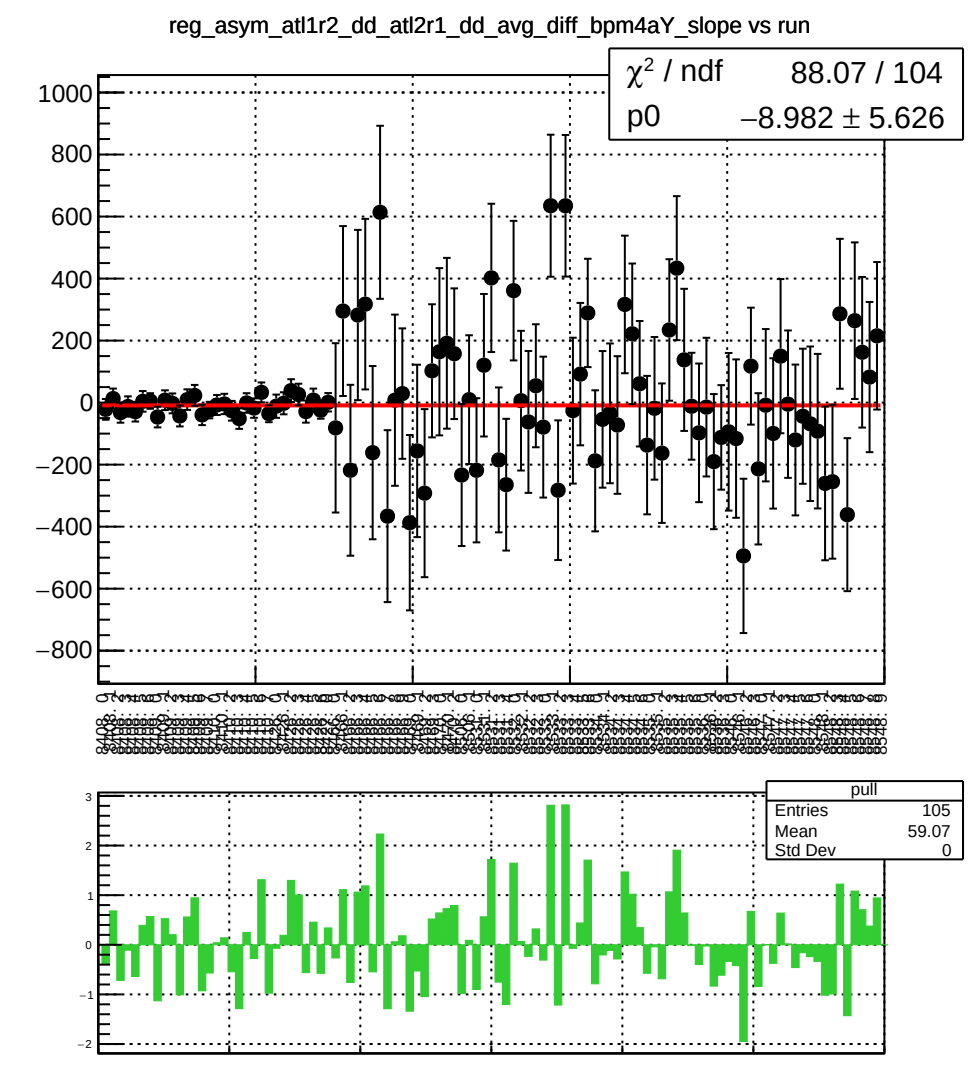

pull1D
Entries 105
Mean 0.5168
Std Dev 1.38
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

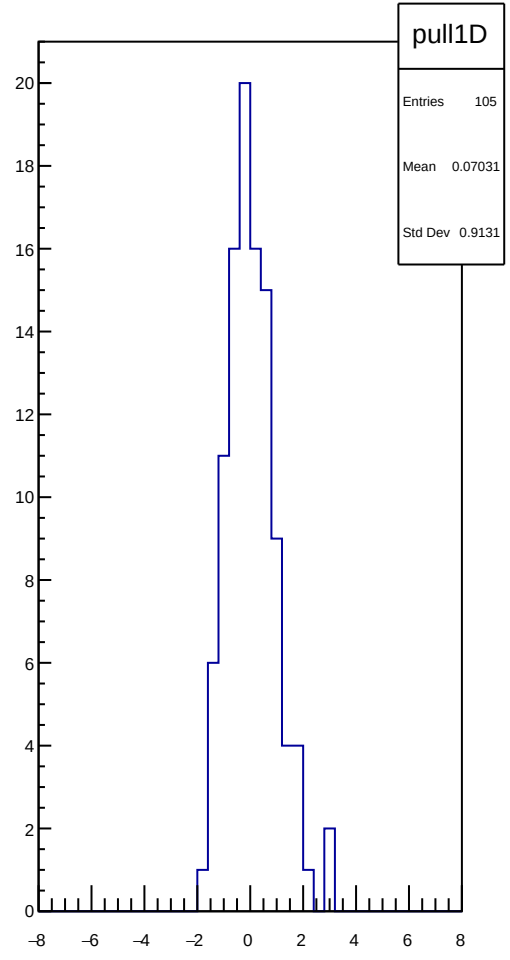

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 72.41 / 104
p0 −12.65 ± 15.11
800
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 105
Mean 79.55
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 105
Mean 0.0208
Std Dev 0.8302
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

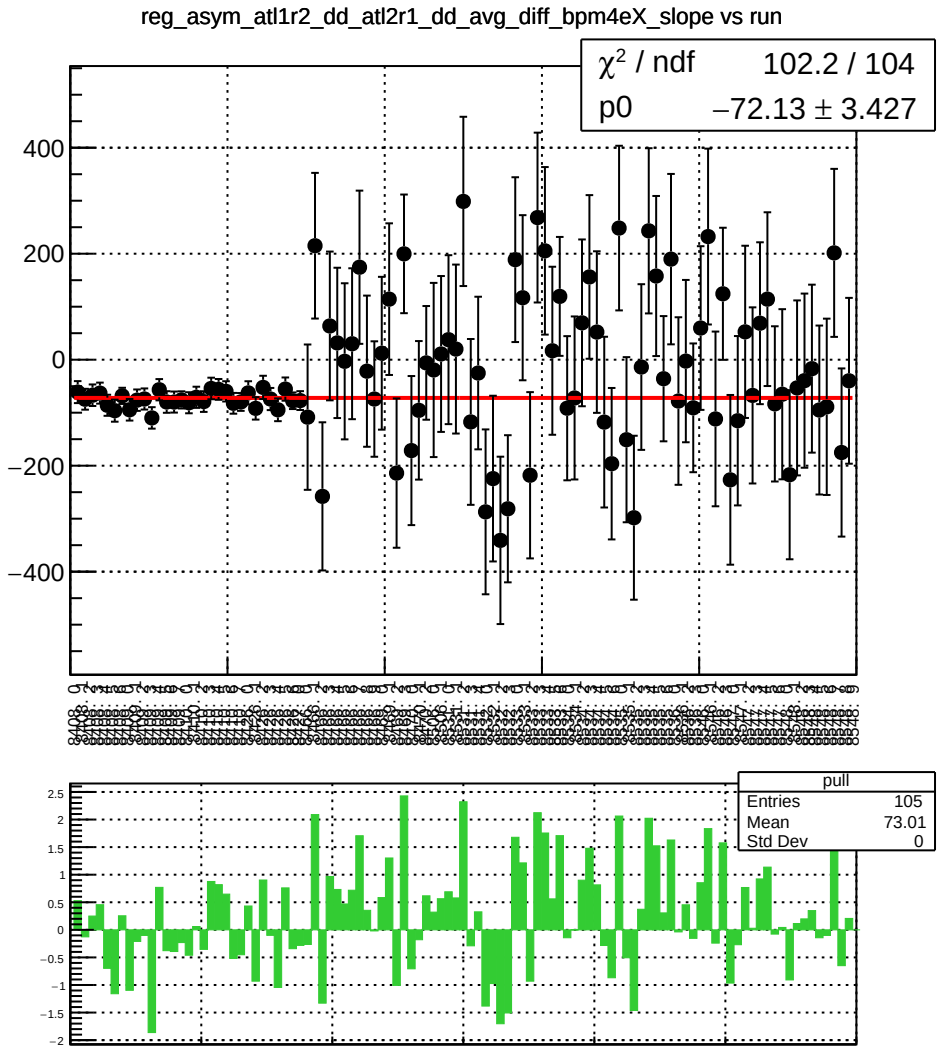

reg_asym_atl1r2_dd_atl2r1_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 5818 / 104
p0 86.03 ± 0.9227
150
100
50
0
−50
pull
Entries 105
Mean 105.7
Std Dev 0
10
5
0
−5
−10
pull1D
Entries 105
Mean −2.612
Std Dev 6.421
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

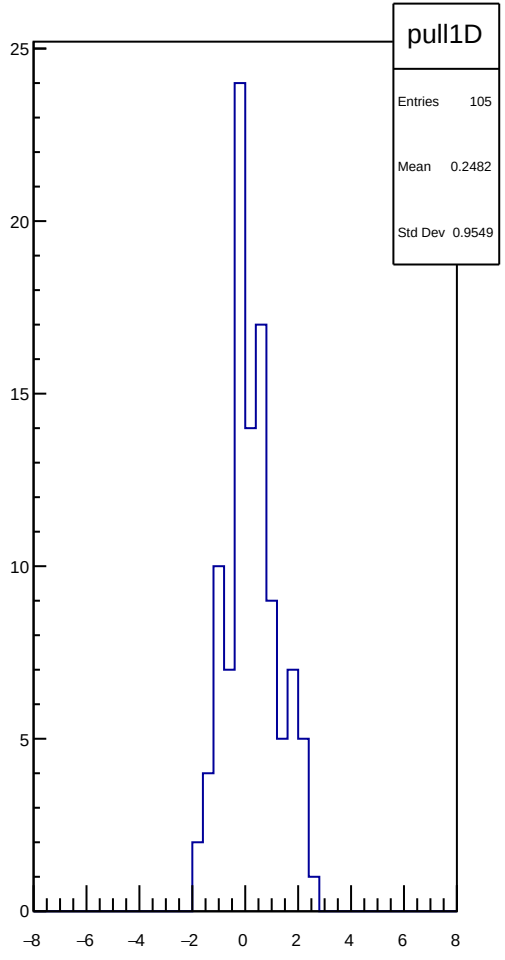

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 98.73 / 104
p0 58.65 ± 3.051
400
200
0
−200
−400
pull
Entries 105
Mean 71.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

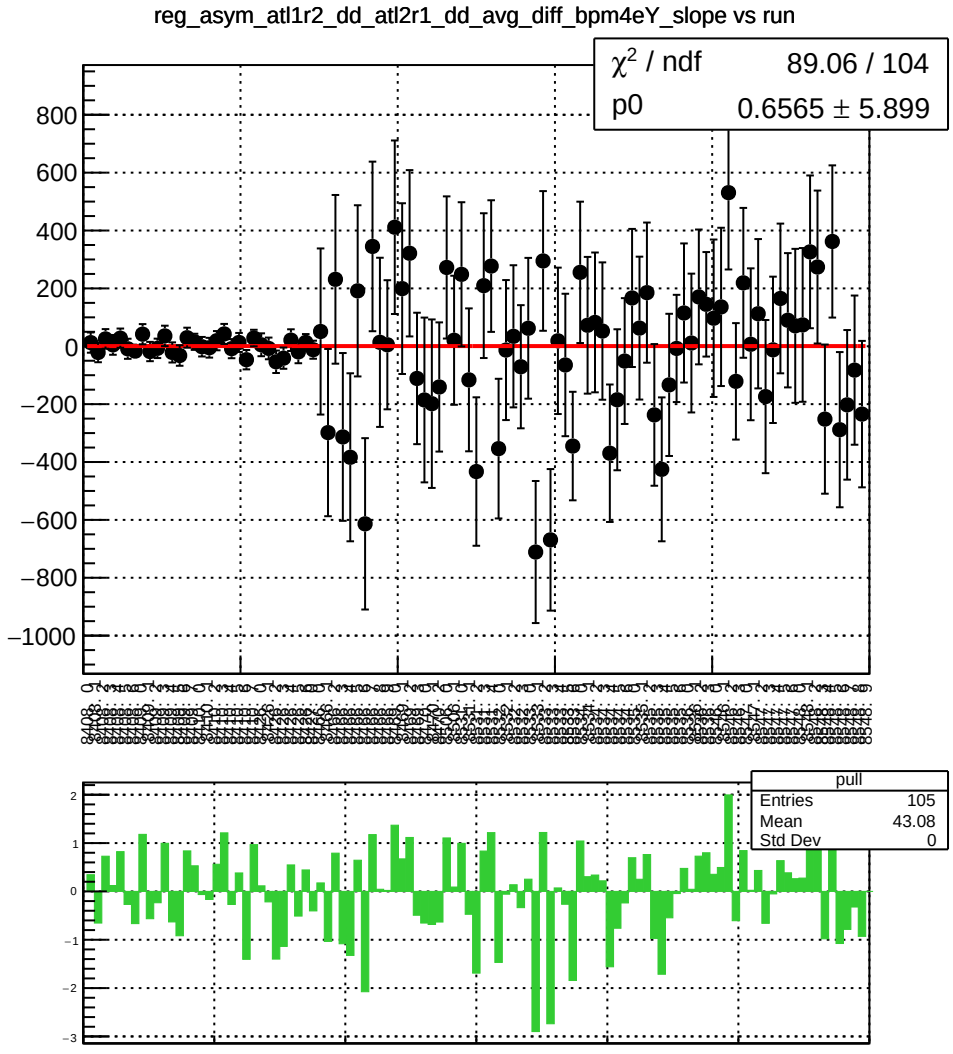

pull1D
Entries 105
Mean −0.1686
Std Dev 0.9549
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

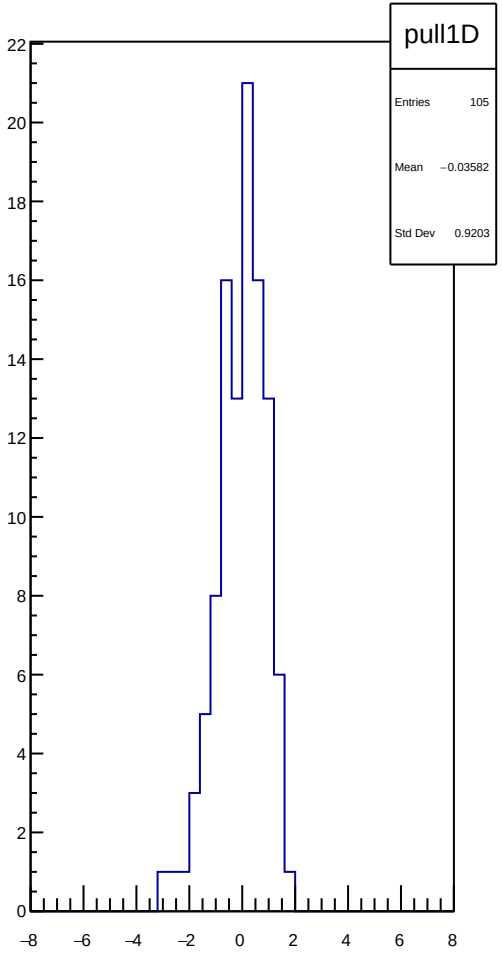

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 88.07 / 104
p0 −8.982 ± 5.626
pull
Entries 105
Mean 59.07
Std Dev 0

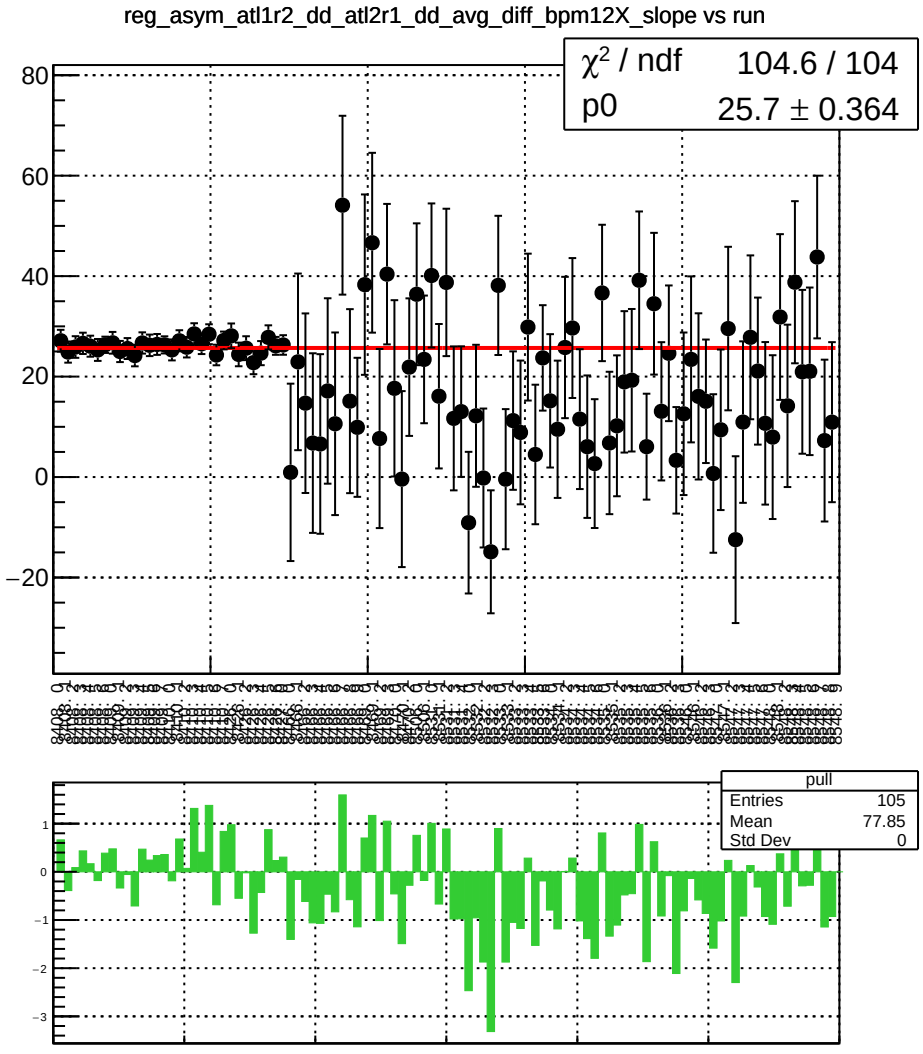

pull1D
Entries 105
Mean 0.07031
Std Dev 0.9131

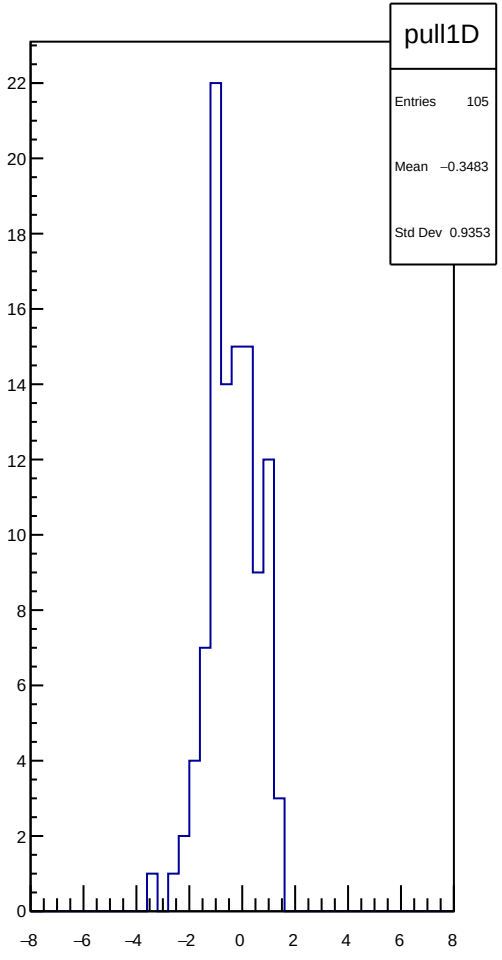

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 102.2 / 104
p0 −72.13 ± 3.427
400
200
0
−200
−400
pull
Entries 105
Mean 73.01
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

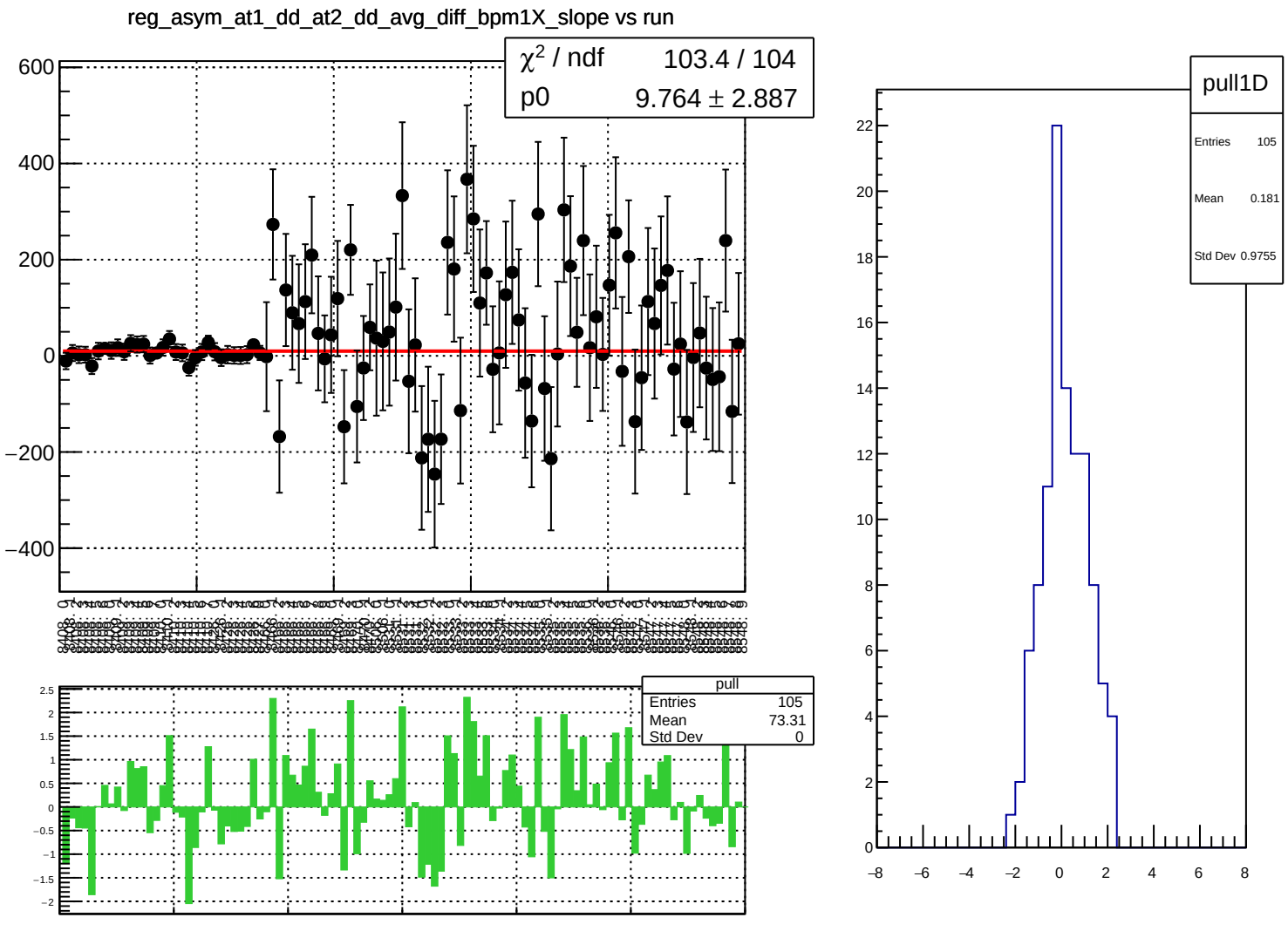

pull1D
Entries 105
Mean 0.2482
Std Dev 0.9549
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

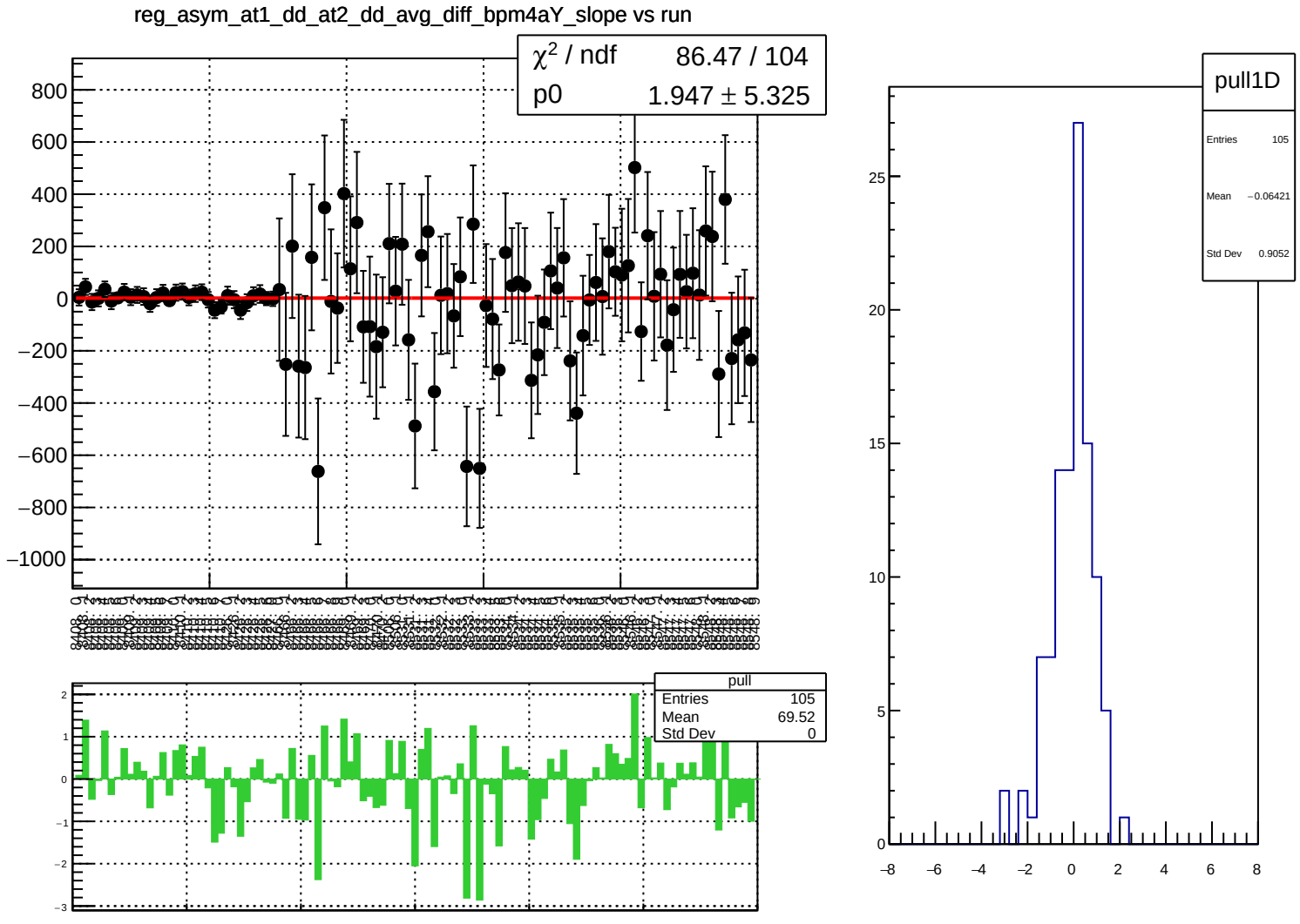

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 89.06 / 104
p0 0.6565 ± 5.899
pull
Entries 105
Mean 43.08
Std Dev 0

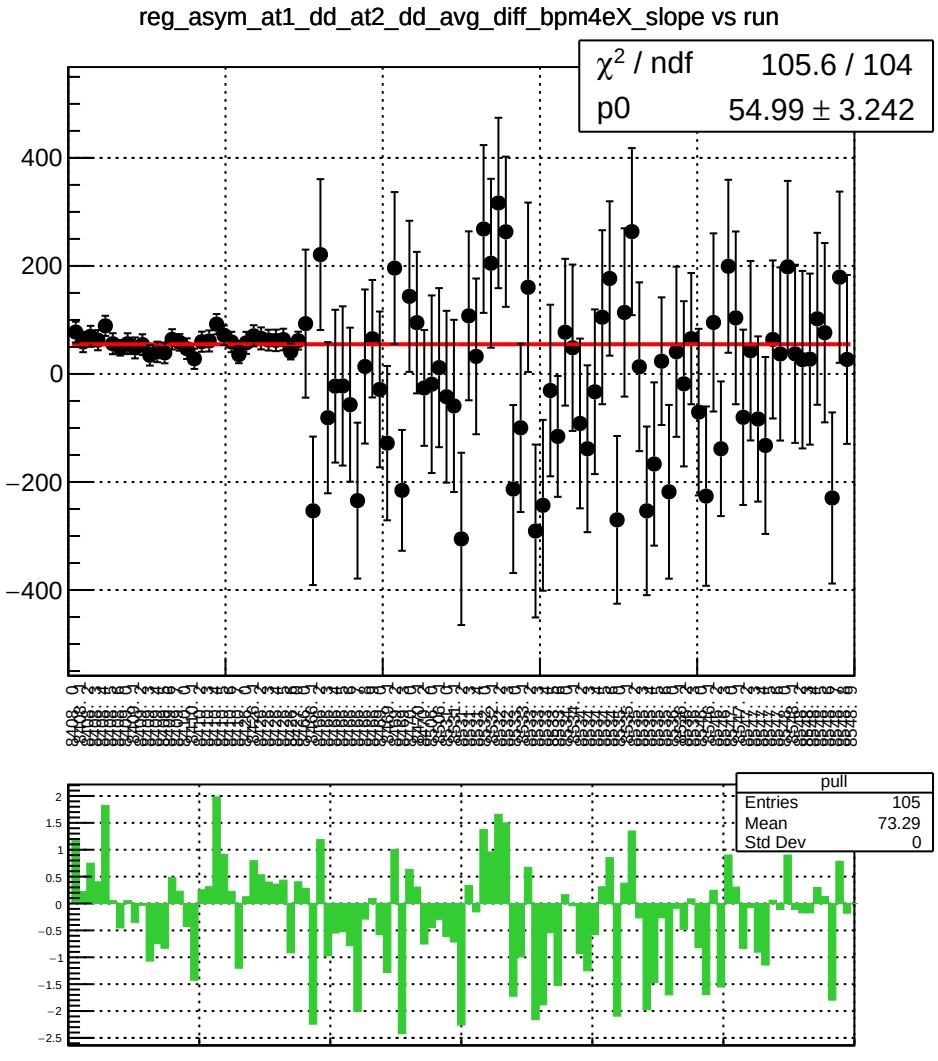

pull1D
Entries 105
Mean −0.03582
Std Dev 0.9203

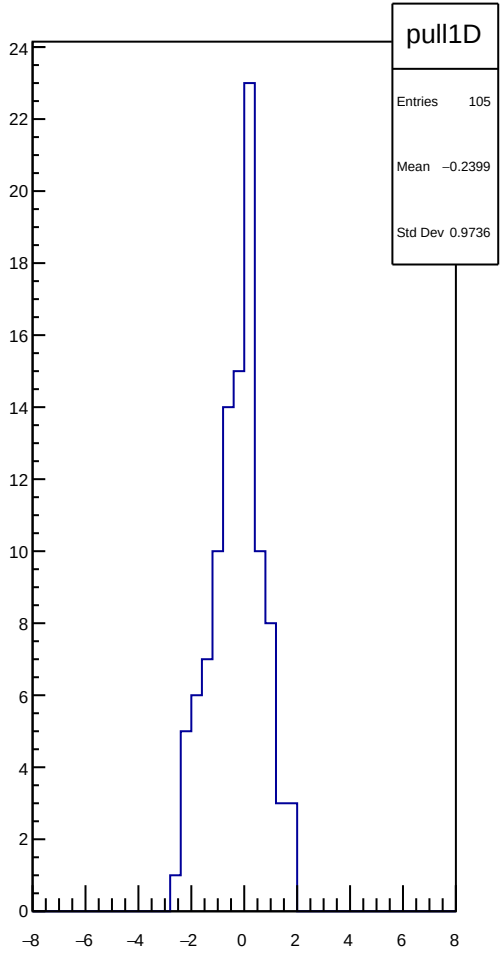

reg_asym_atl1r2_dd_atl2r1_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 104.6 / 104
p0 25.7 ± 0.364
pull
Entries 105
Mean 77.85
Std Dev 0

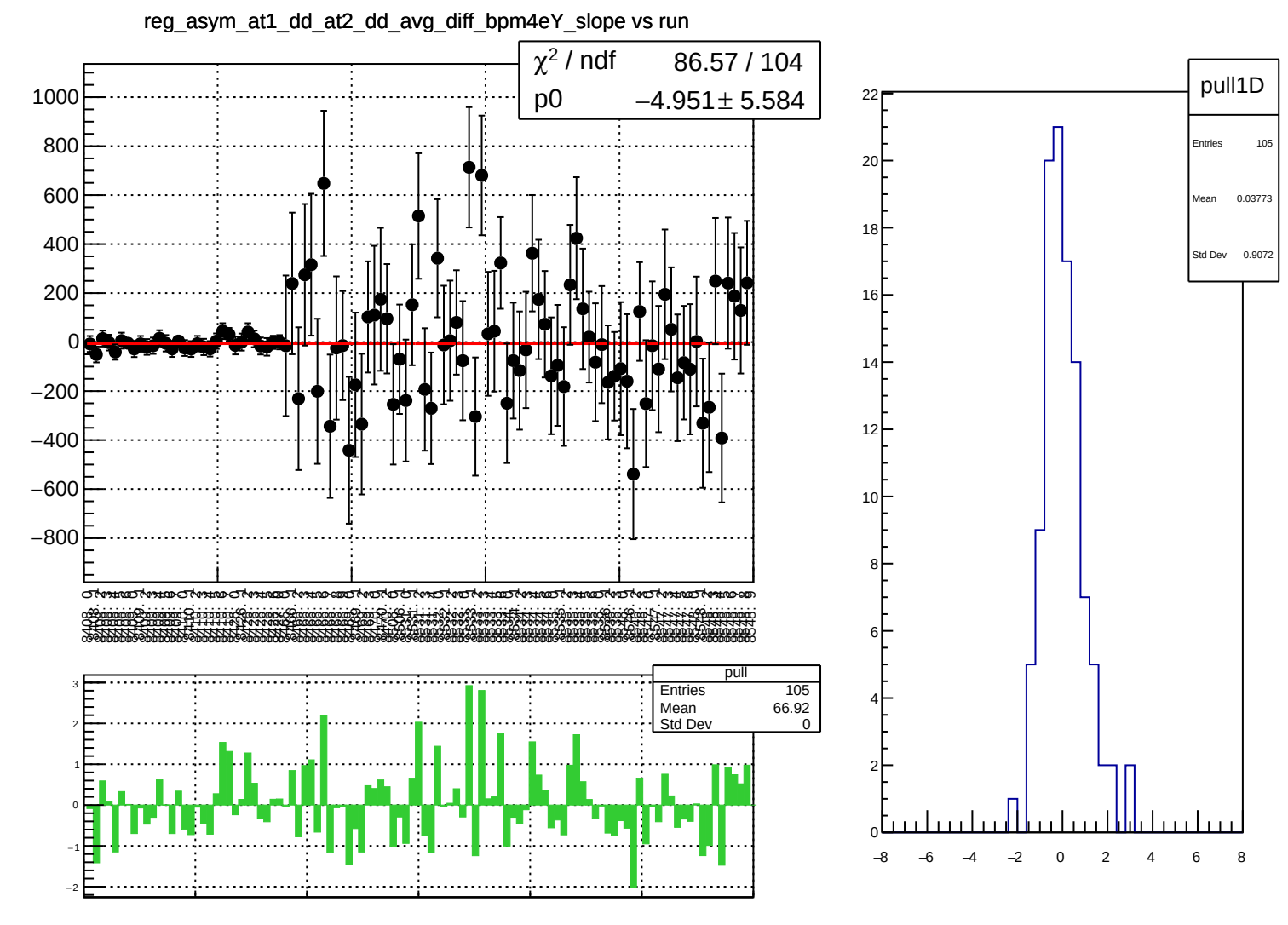

pull1D
Entries 105
Mean −0.3483
Std Dev 0.9353

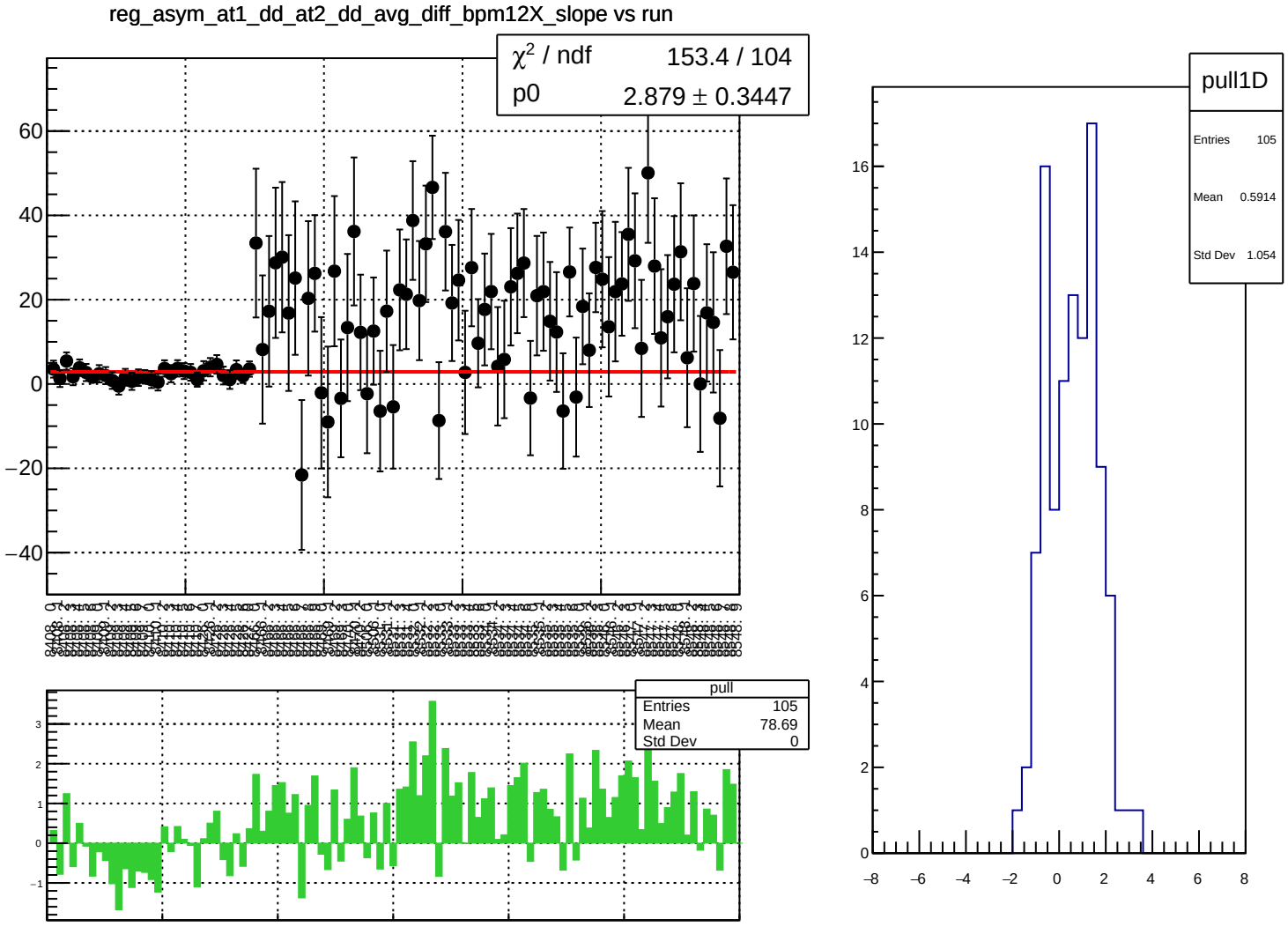

reg_asym_at1_dd_at2_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 103.4 / 104
p0 9.764 ± 2.887
600
400
200
0
−200
−400
pull
Entries 105
Mean 73.31
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 105
Mean 0.181
Std Dev 0.9755
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

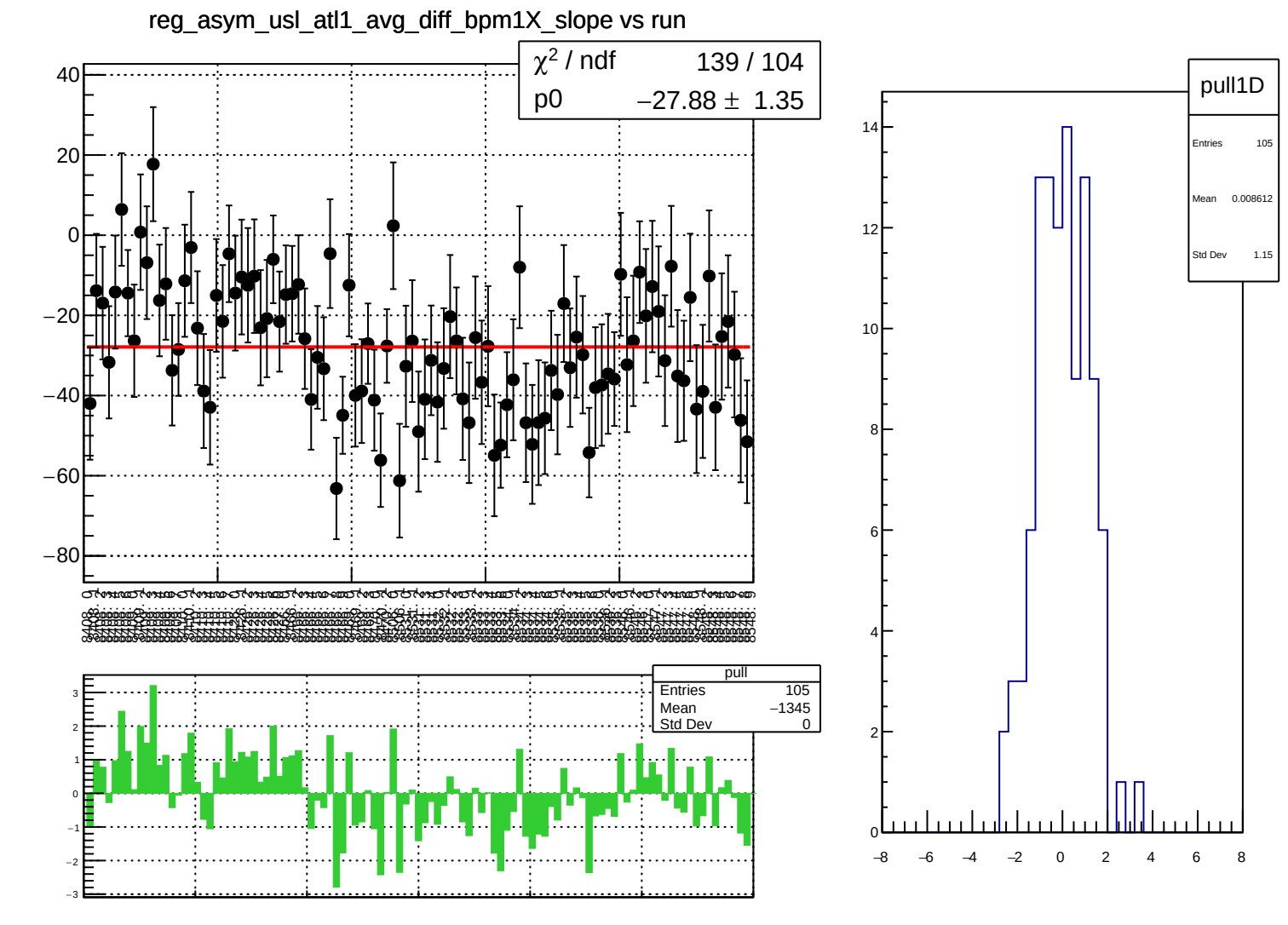

reg_asym_at1_dd_at2_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 86.47 / 104
p0 1.947 ± 5.325
800
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 105
Mean 69.52
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 105
Mean −0.06421
Std Dev 0.9052
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

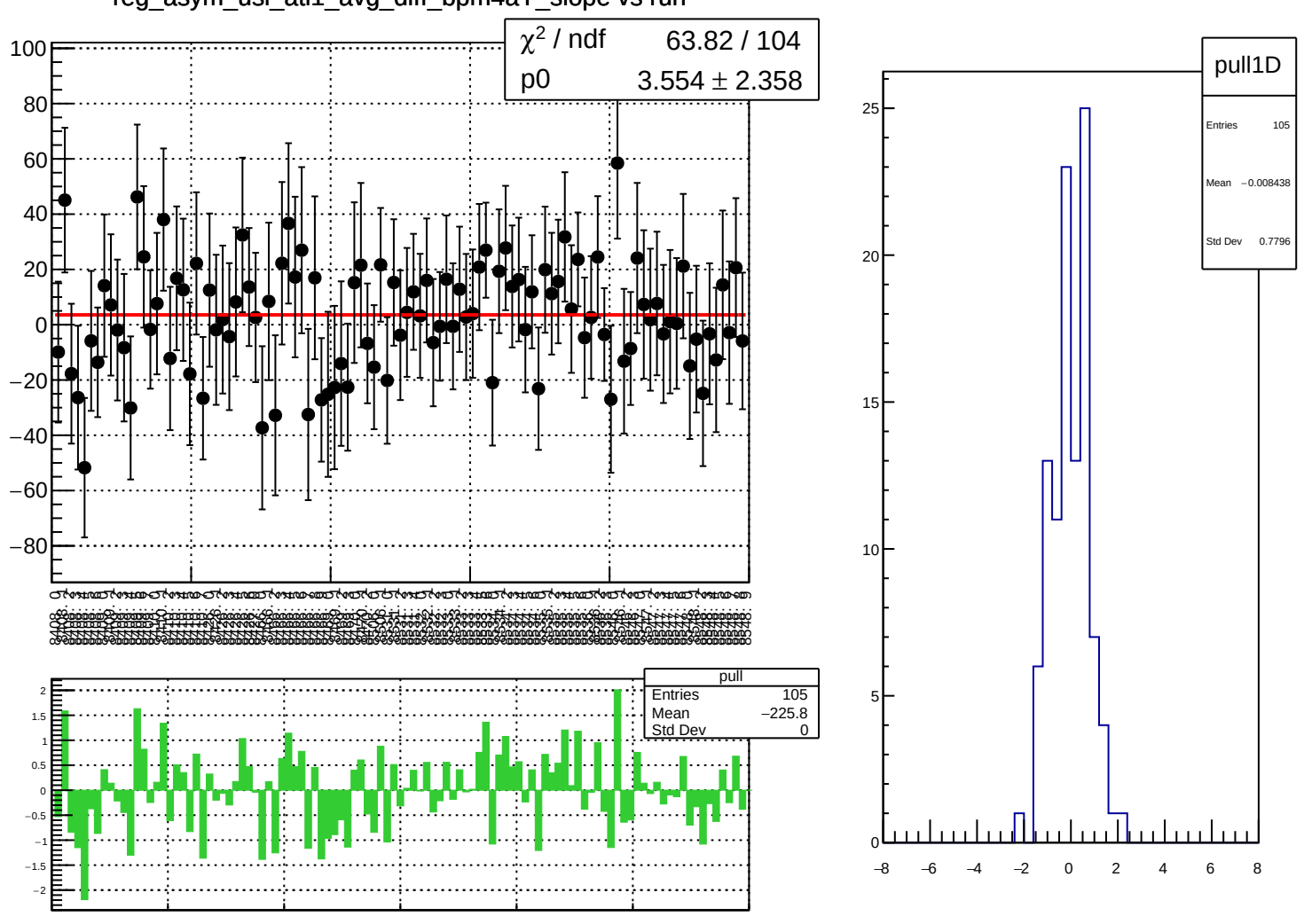

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 105.6 / 104
p0 54.99 ± 3.242
400
200
0
−200
−400
pull
Entries 105
Mean 73.29
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

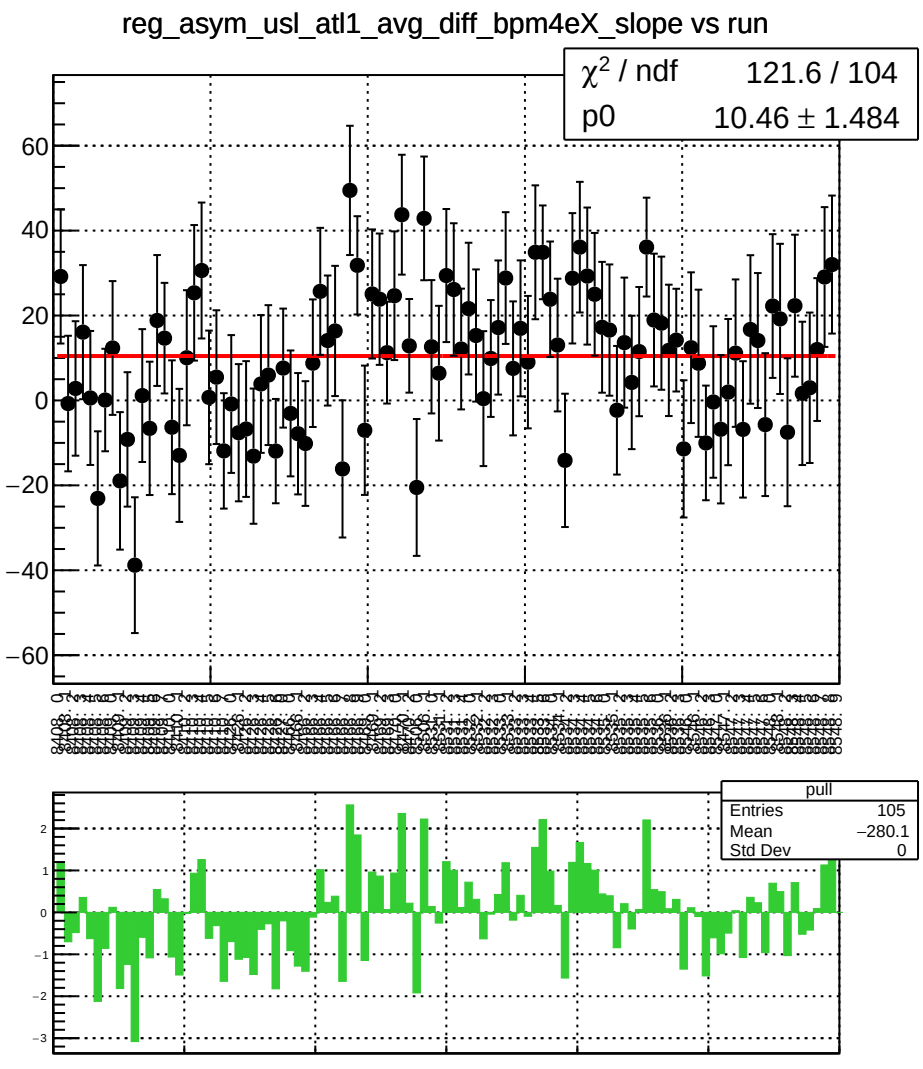

pull1D
Entries 105
Mean −0.2399
Std Dev 0.9736
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

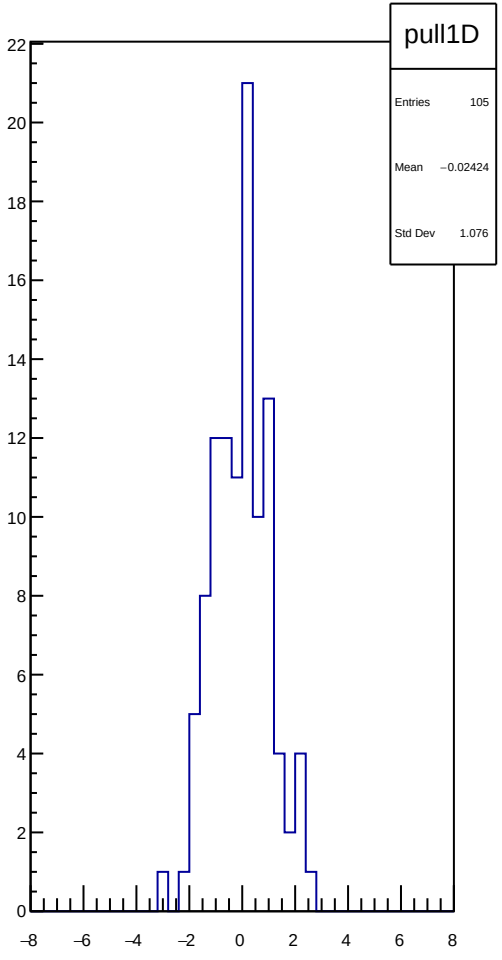

reg_asym_at1_dd_at2_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 86.57 / 104
p0 −4.951 ± 5.584
pull
Entries 105
Mean 66.92
Std Dev 0
pull1D
Entries 105
Mean 0.03773
Std Dev 0.9072

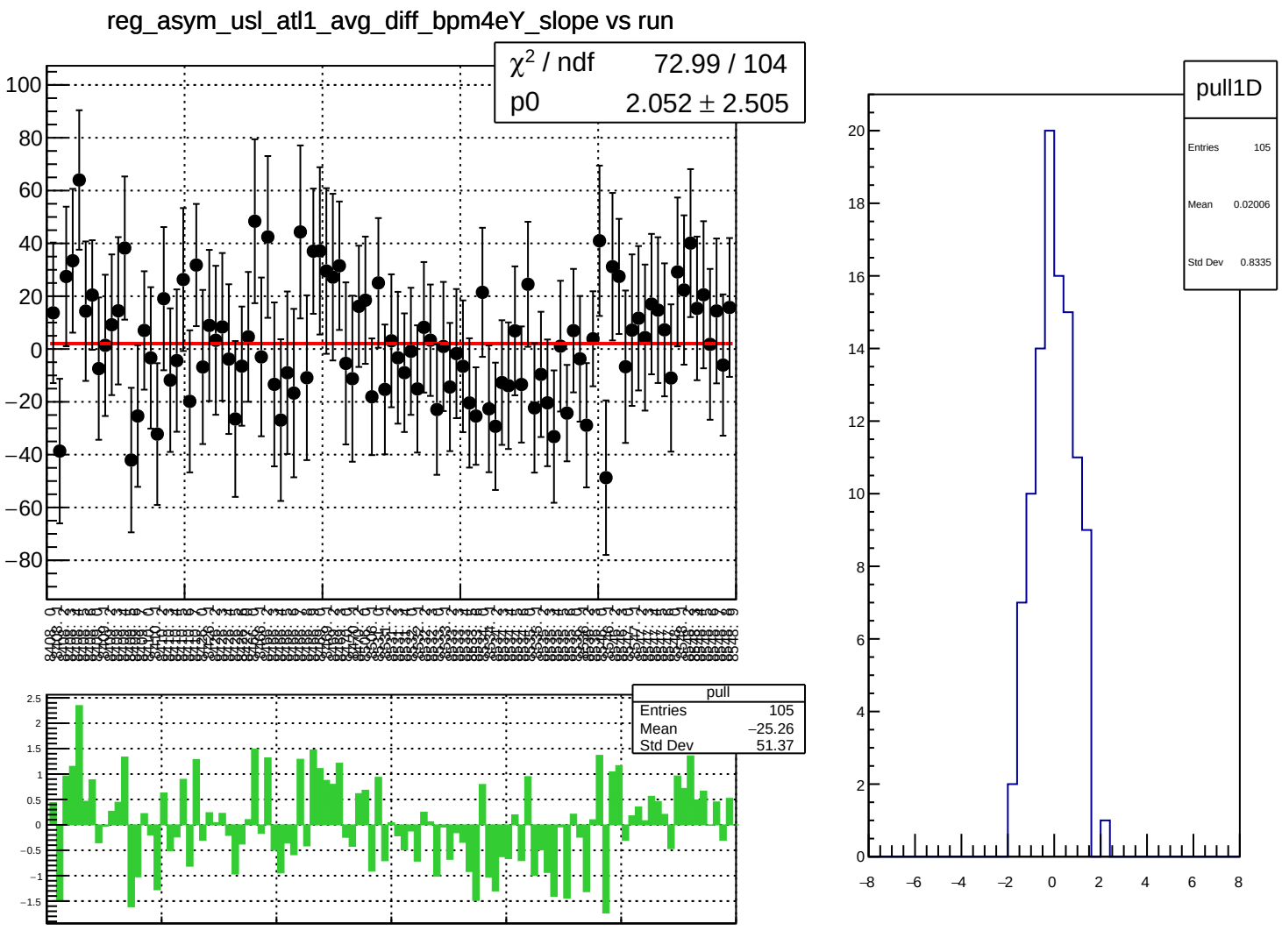

reg_asym_at1_dd_at2_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 153.4 / 104
p0 2.879 ± 0.3447
60
40
20
0
−20
−40
pull
Entries 105
Mean 78.69
Std Dev 0
3
2
1
0
−1
pull1D
Entries 105
Mean 0.5914
Std Dev 1.054
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

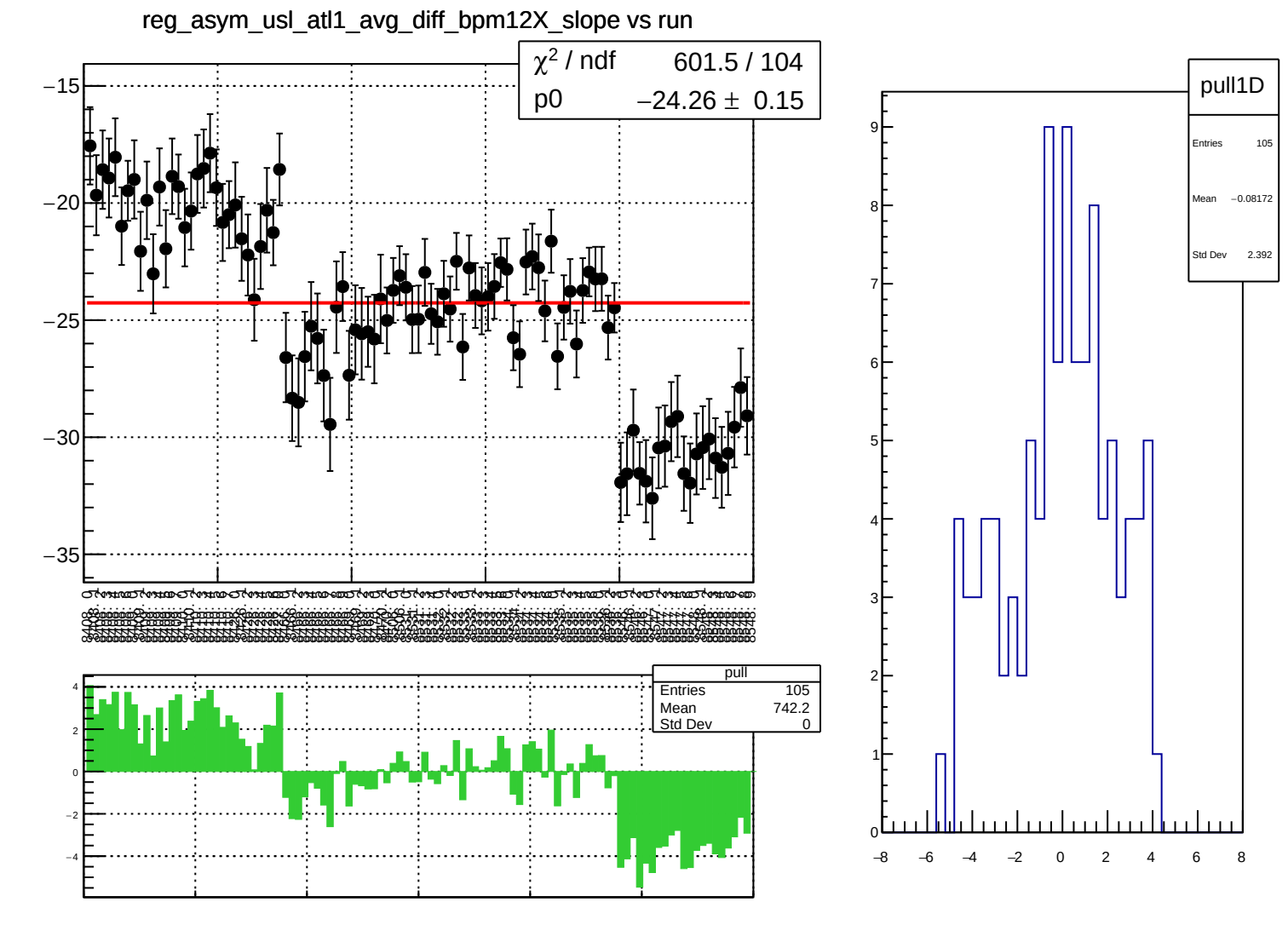

reg_asym_usl_atl1_avg_diff_bpm1X_slope vs run
χ² / ndf 139 / 104
p0 −27.88 ± 1.35
pull
Entries 105
Mean −1345
Std Dev 0
pull1D
Entries 105
Mean 0.008612
Std Dev 1.15

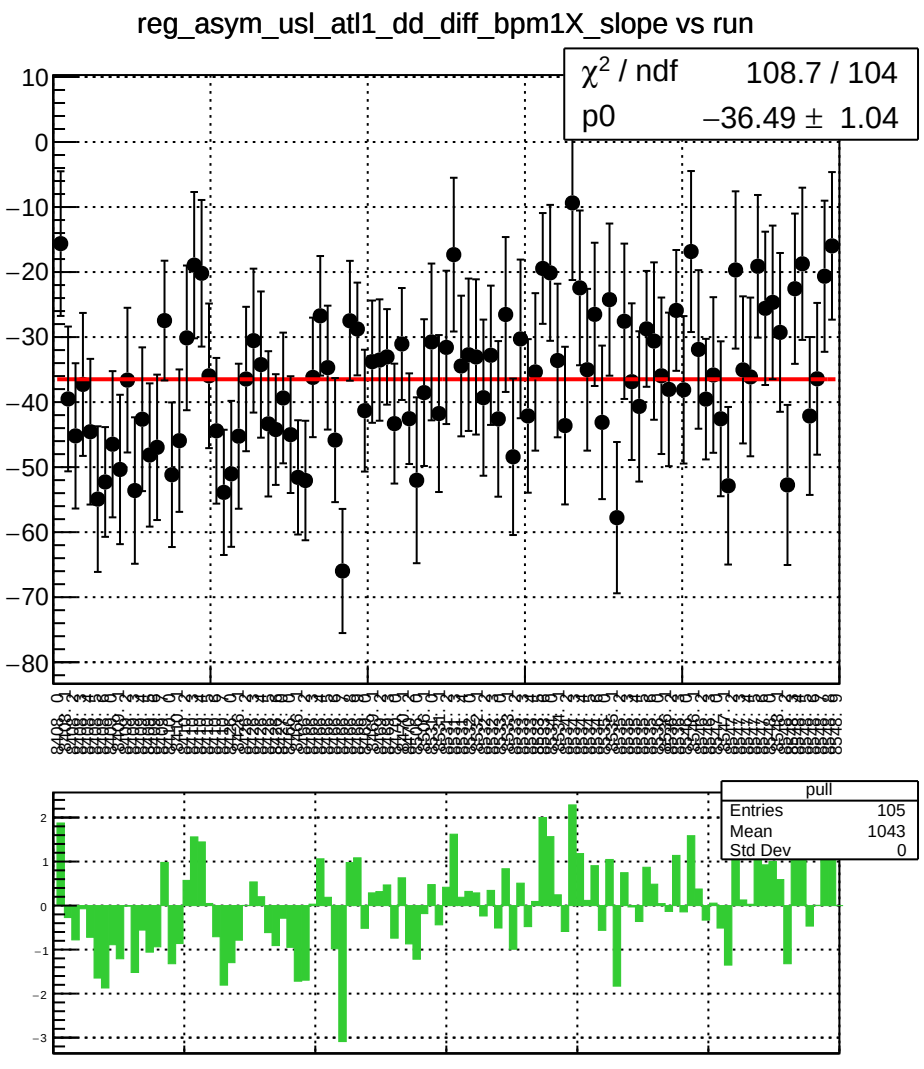

reg_asym_usl_atl1_avg_diff_bpm4aY_slope vs run
χ² / ndf 63.82 / 104
p0 3.554 ± 2.358
pull
Entries 105
Mean −225.8
Std Dev 0
pull1D
Entries 105
Mean −0.008438
Std Dev 0.7796

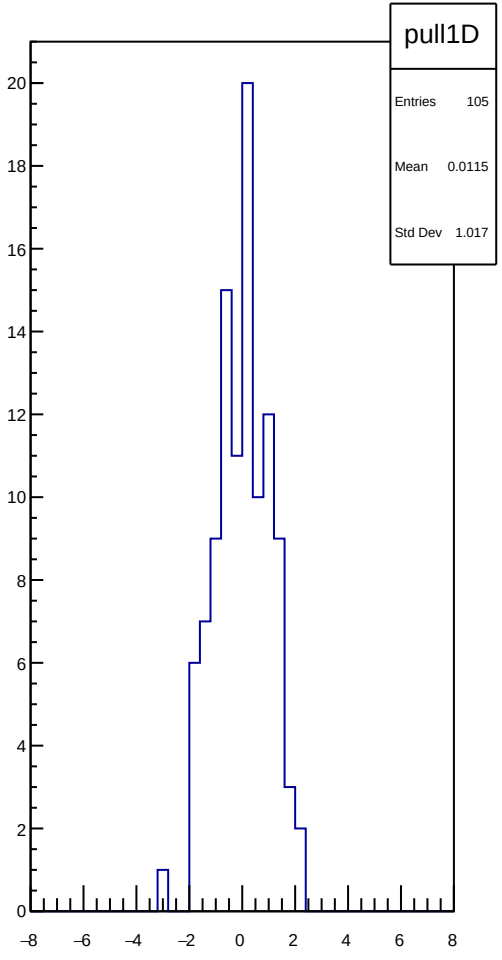

reg_asym_usl_atl1_avg_diff_bpm4eX_slope vs run
χ² / ndf 121.6 / 104
p0 10.46 ± 1.484
pull
Entries 105
Mean −280.1
Std Dev 0

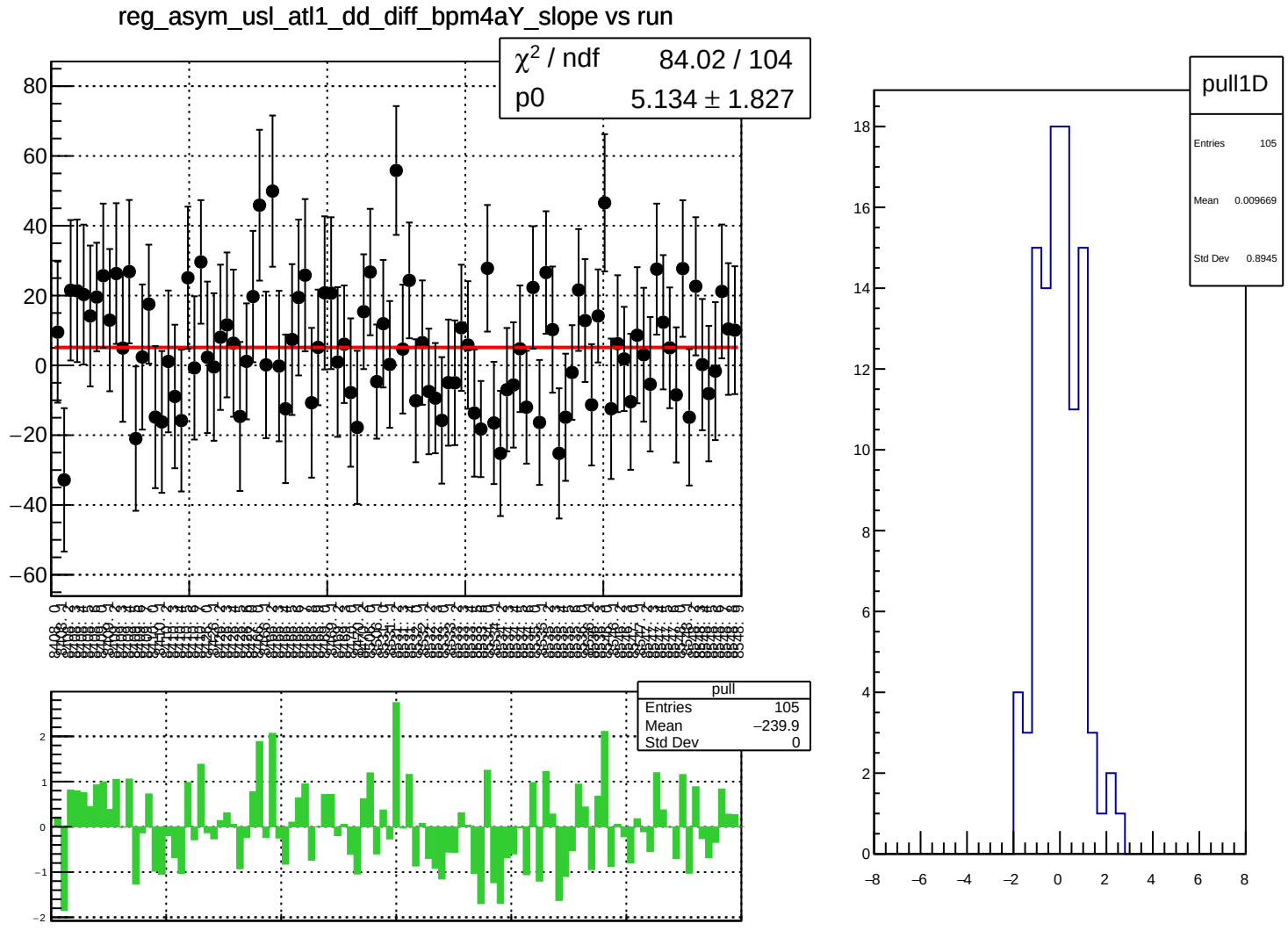

pull1D
Entries 105
Mean −0.02424
Std Dev 1.076

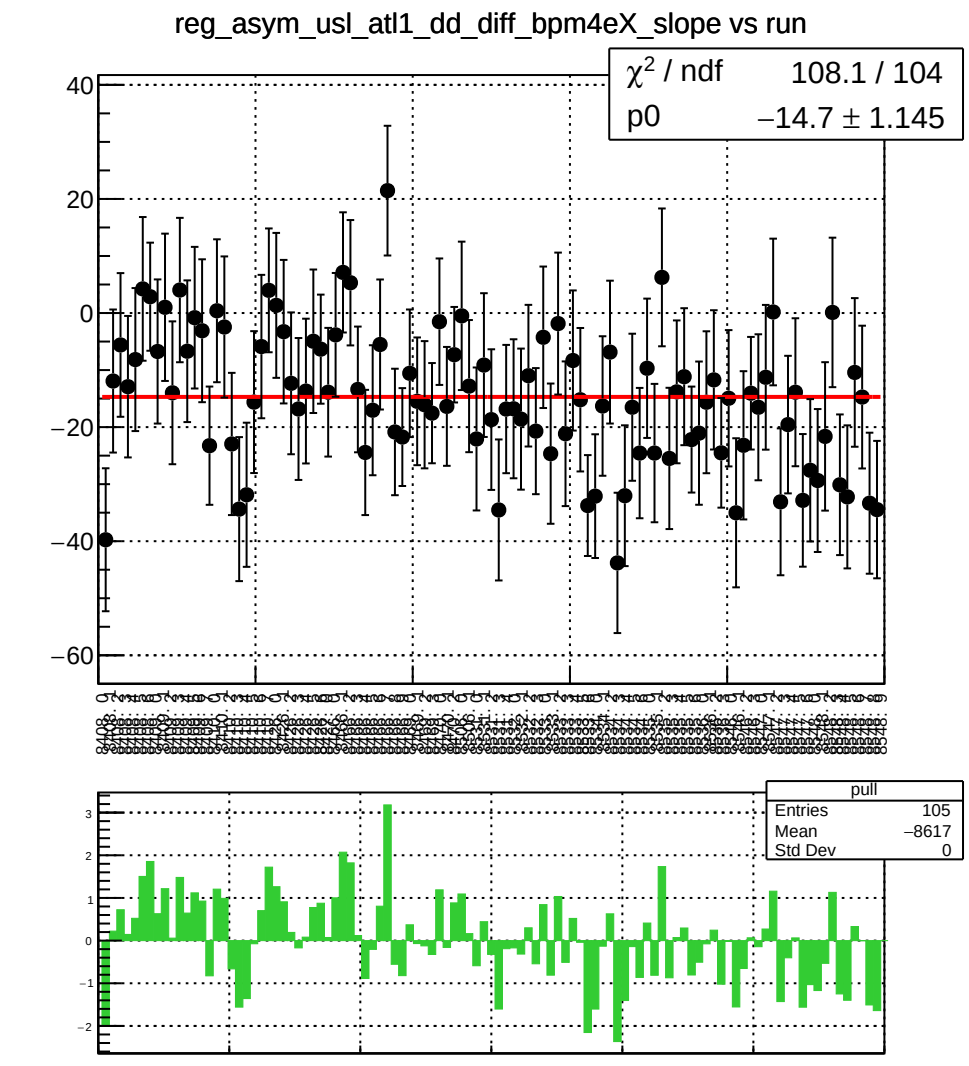

reg_asym_usl_atl1_avg_diff_bpm4eY_slope vs run
χ² / ndf 72.99 / 104
p0 2.052 ± 2.505
pull
Entries 105
Mean −25.26
Std Dev 51.37
pull1D
Entries 105
Mean 0.02006
Std Dev 0.8335

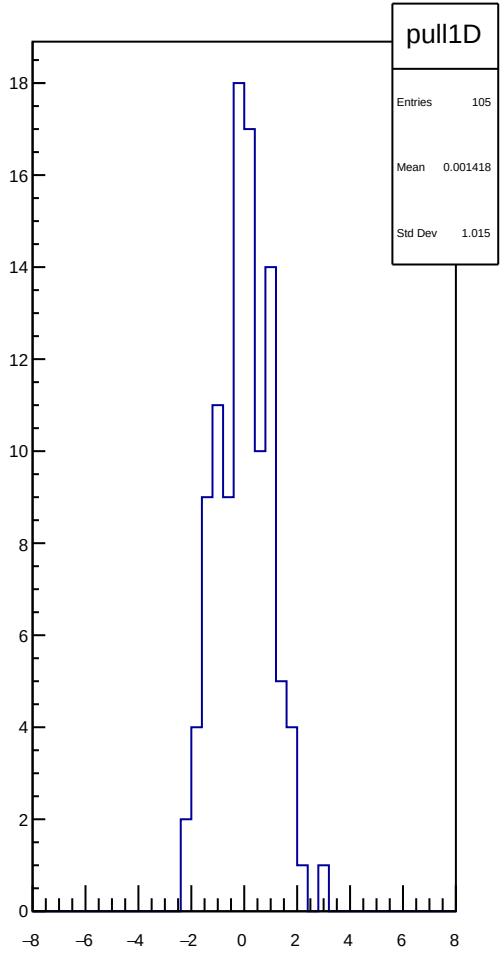

reg_asym_usl_atl1_avg_diff_bpm12X_slope vs run
χ² / ndf 601.5 / 104
p0 −24.26 ± 0.15
−15
−20
−25
−30
−35
pull
Entries 105
Mean 742.2
Std Dev 0
4
2
0
−2
−4
pull1D
Entries 105
Mean −0.08172
Std Dev 2.392
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

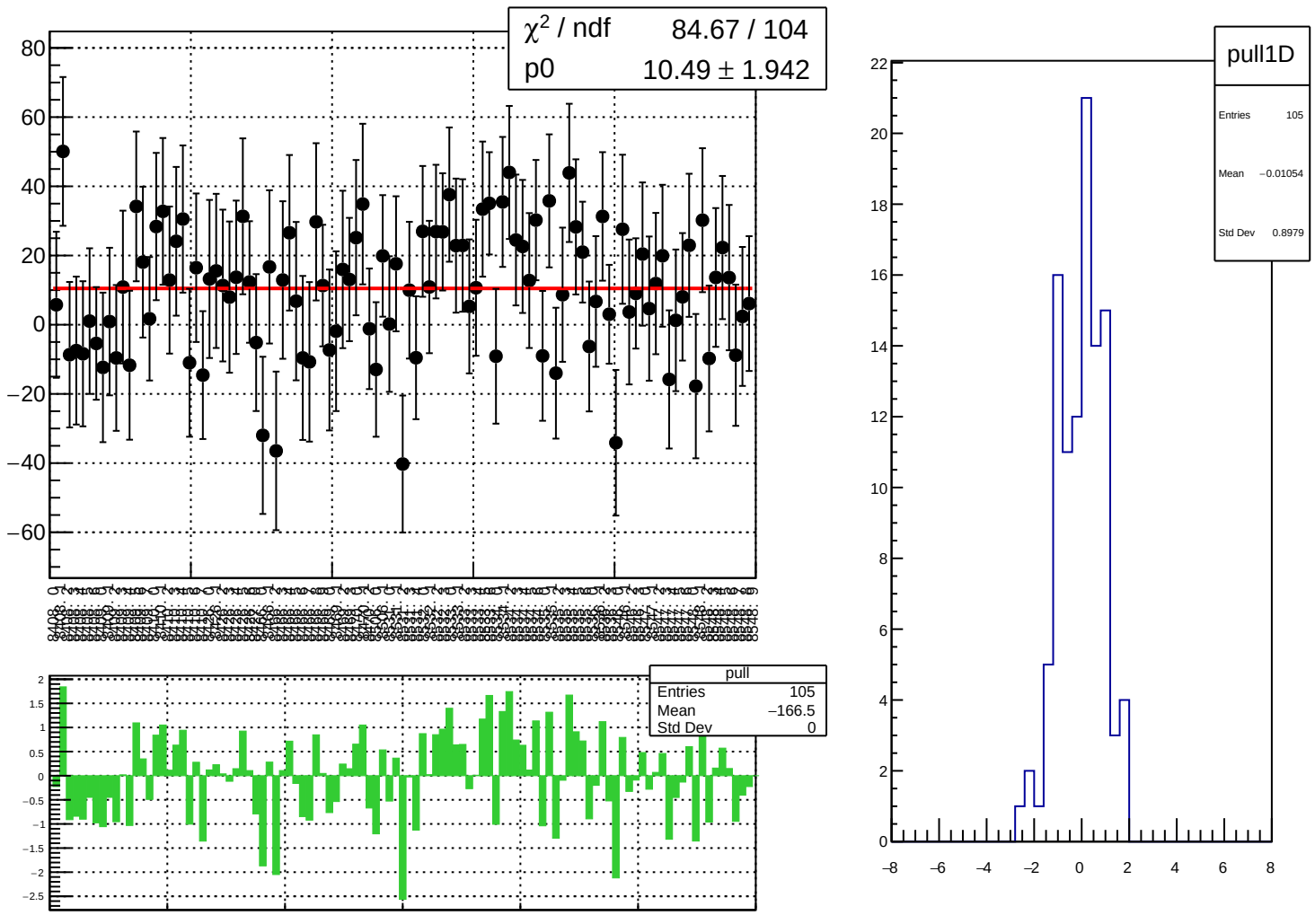

reg_asym_usl_atl1_dd_diff_bpm1X_slope vs run
χ² / ndf 108.7 / 104
p0 −36.49 ± 1.04
pull
Entries 105
Mean 1043
Std Dev 0

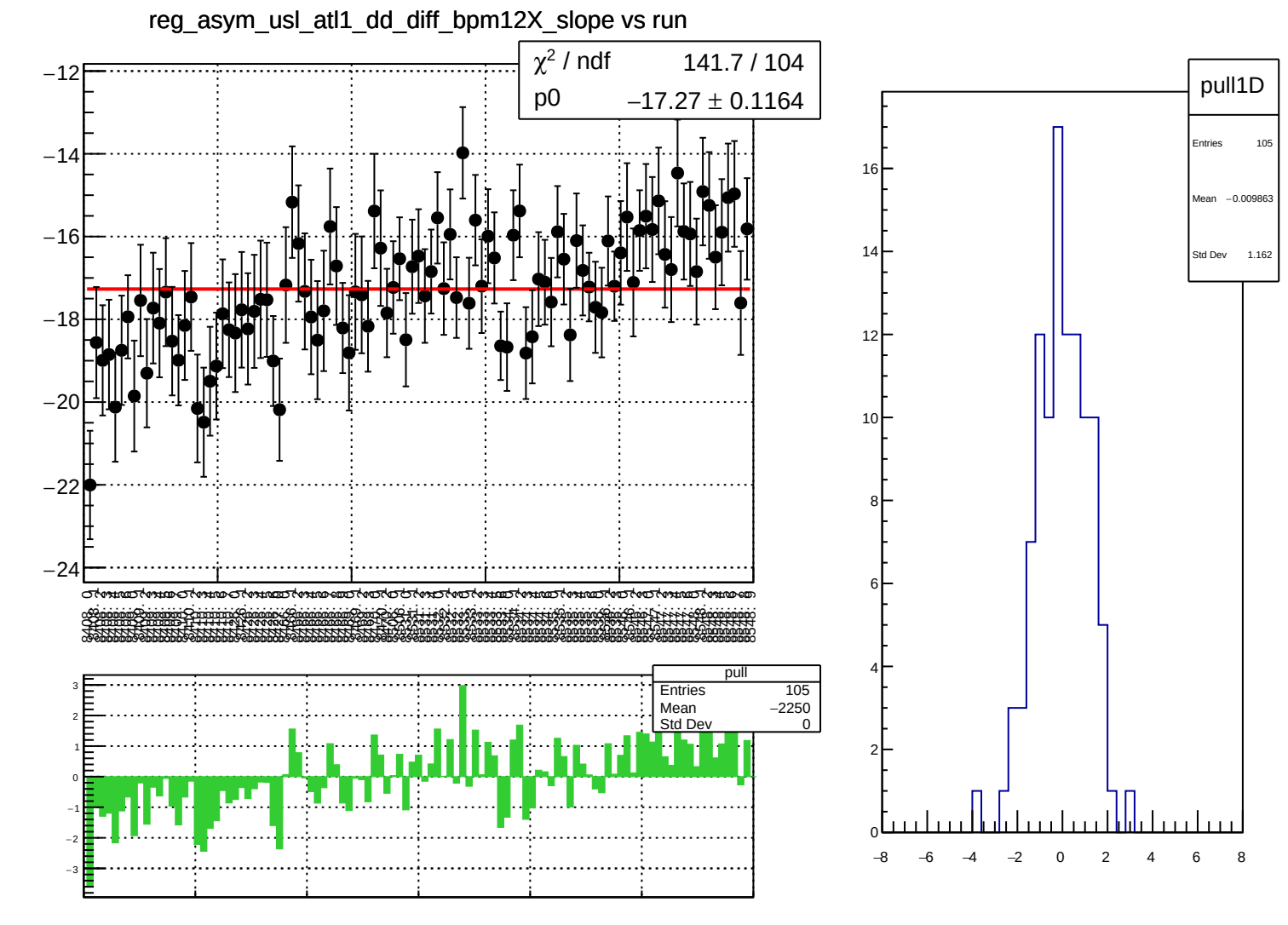

pull1D
Entries 105
Mean 0.0115
Std Dev 1.017

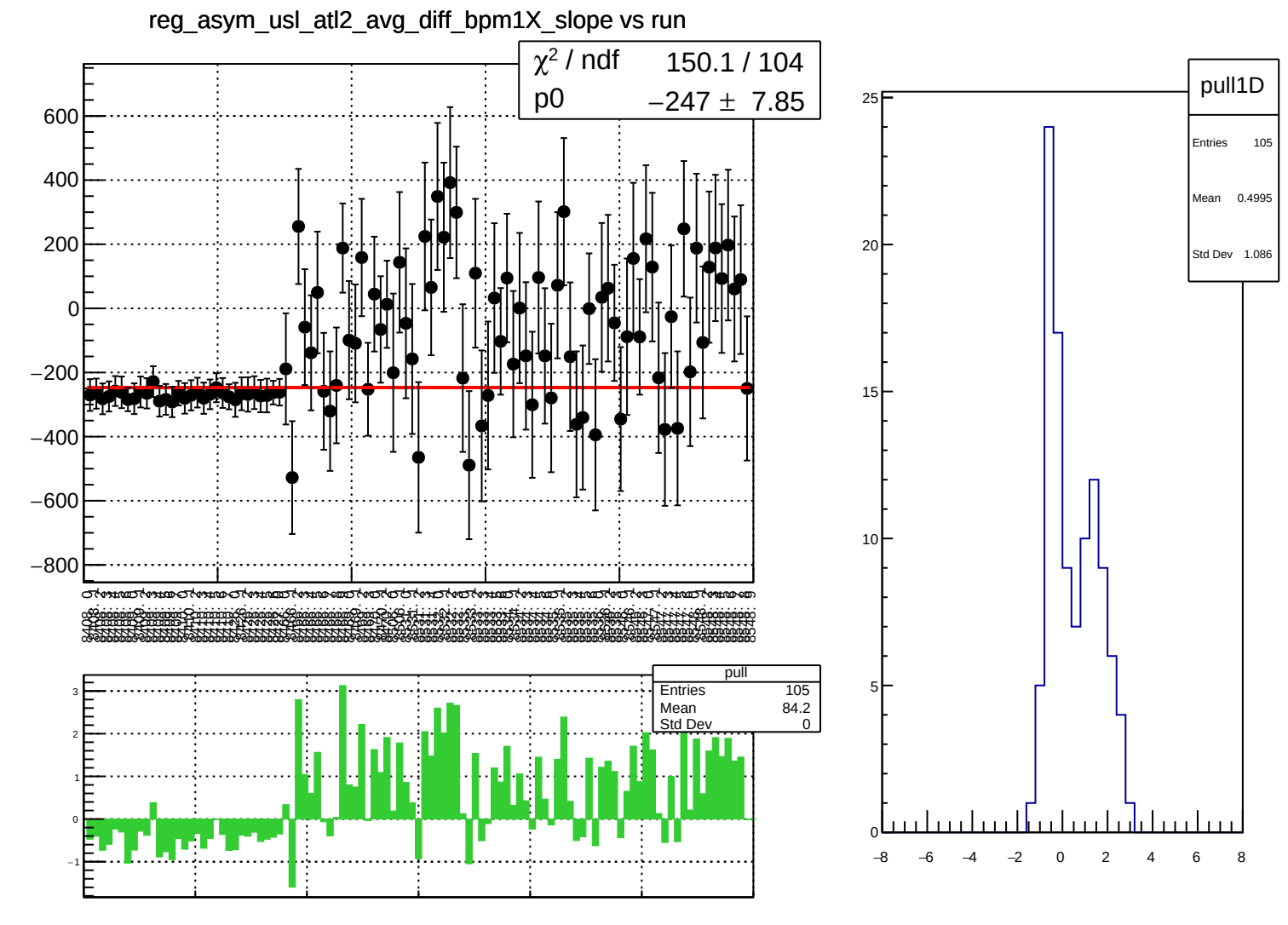

reg_asym_usl_atl1_dd_diff_bpm4aY_slope vs run
χ² / ndf 84.02 / 104
p0 5.134 ± 1.827
pull
Entries 105
Mean −239.9
Std Dev 0
pull1D
Entries 105
Mean 0.009669
Std Dev 0.8945

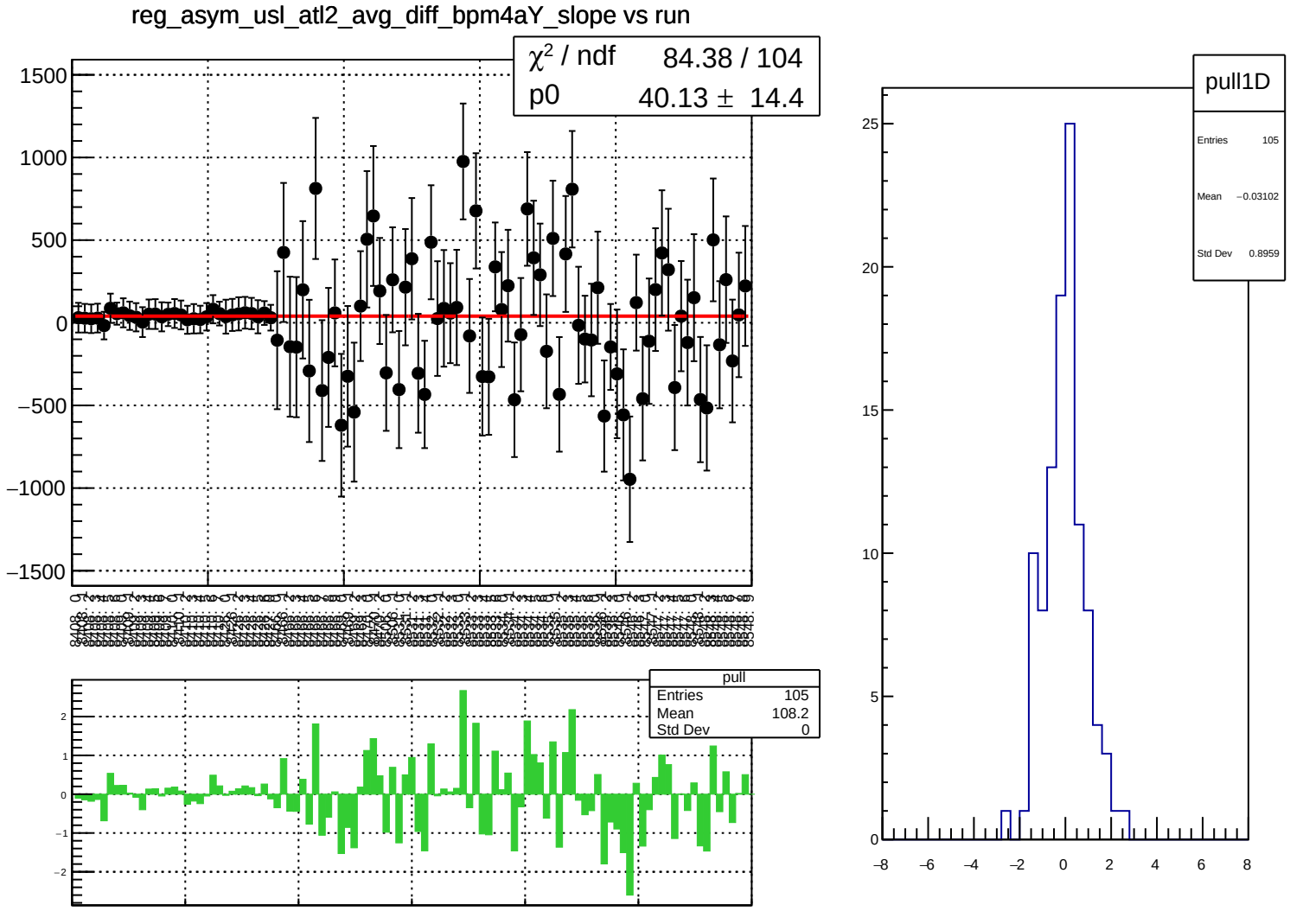

reg_asym_usl_atl1_dd_diff_bpm4eX_slope vs run
χ² / ndf 108.1 / 104
p0 −14.7 ± 1.145
40
20
0
−20
−40
−60
pull
Entries 105
Mean −8617
Std Dev 0
3
2
1
0
−1
−2

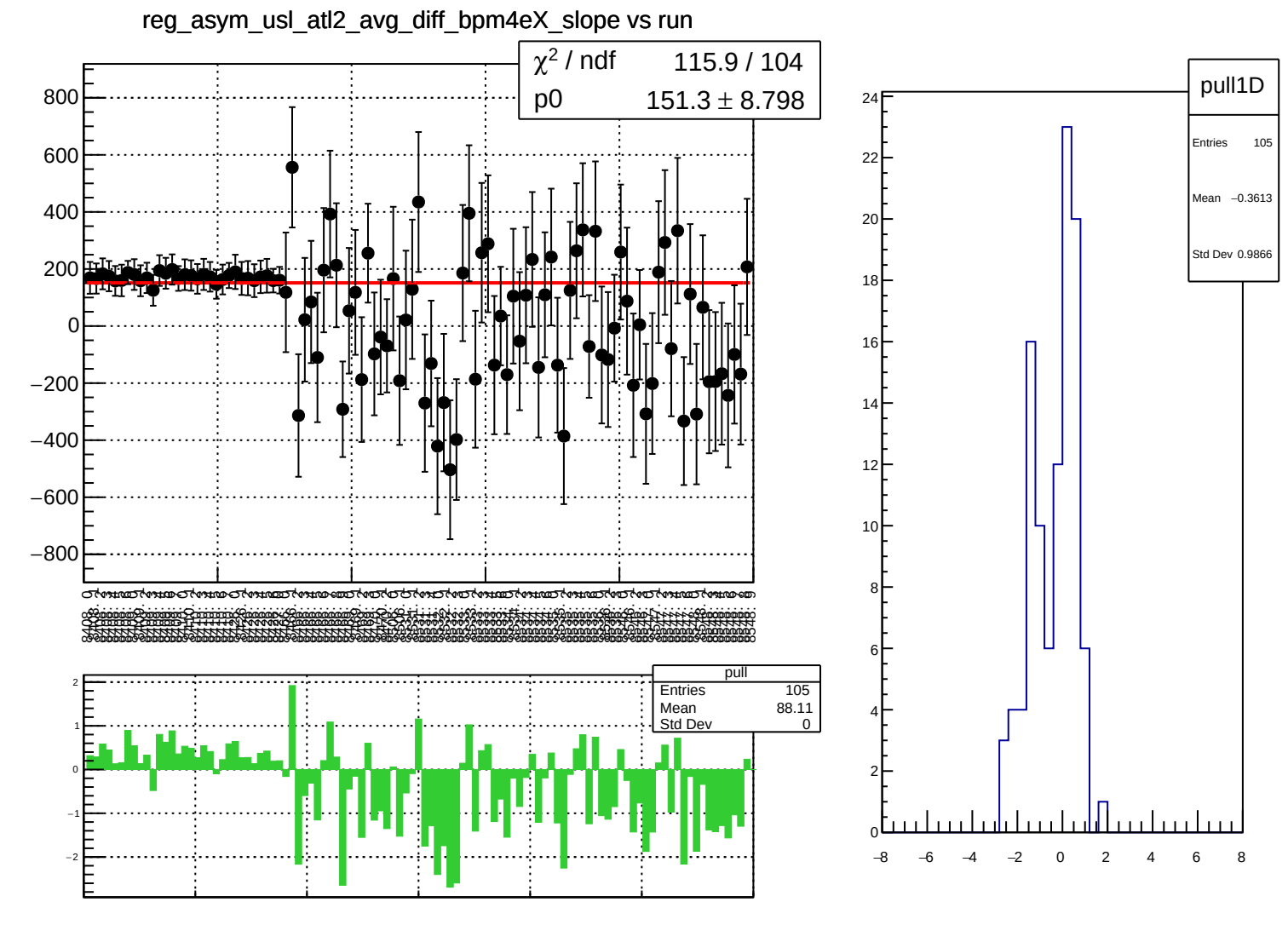

pull1D
Entries 105
Mean 0.001418
Std Dev 1.015
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

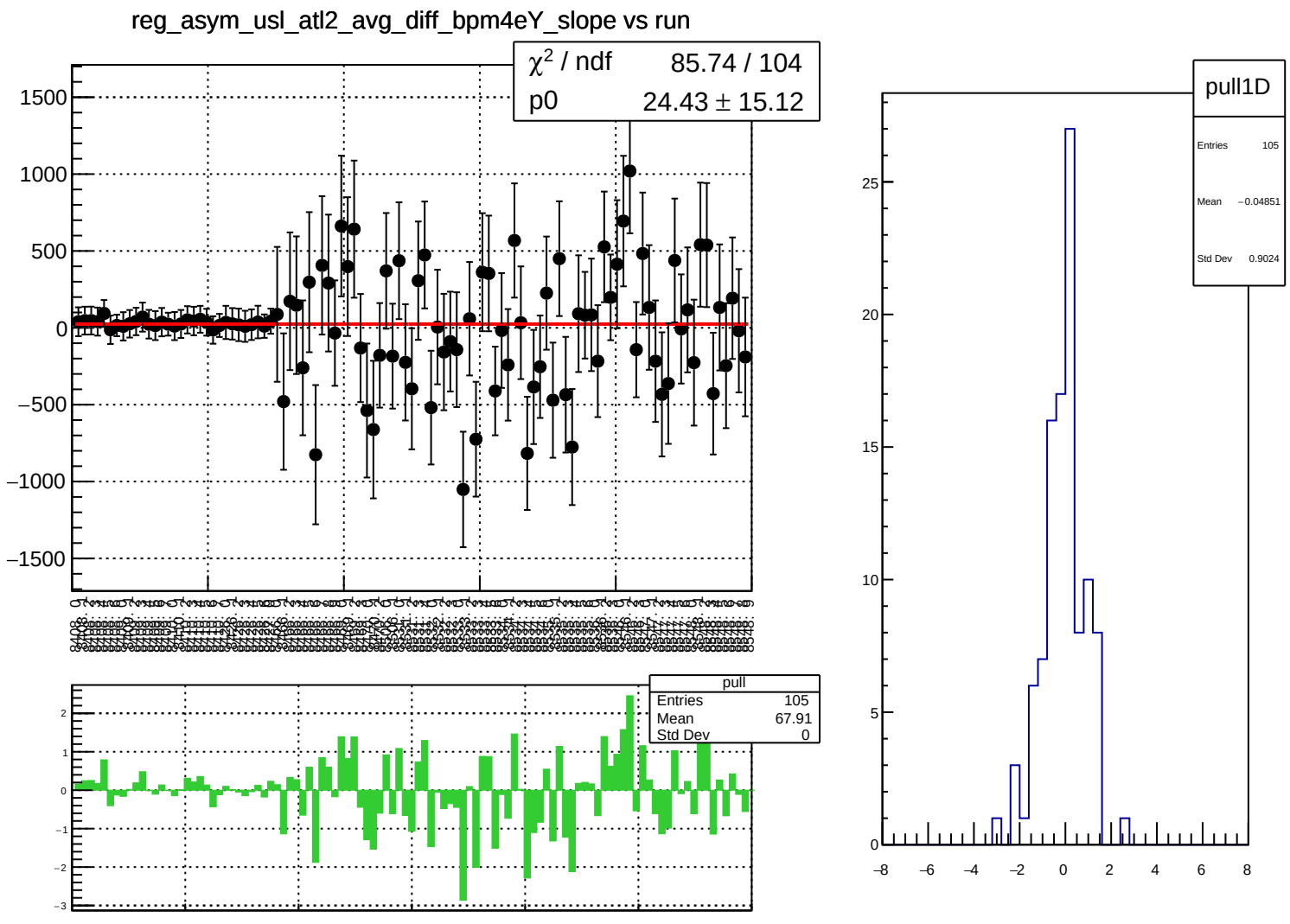

reg_asym_usl_atl1_dd_diff_bpm4eY_slope vs run
χ² / ndf 84.67 / 104
p0 10.49 ± 1.942
pull
Entries 105
Mean −166.5
Std Dev 0
pull1D
Entries 105
Mean −0.01054
Std Dev 0.8979

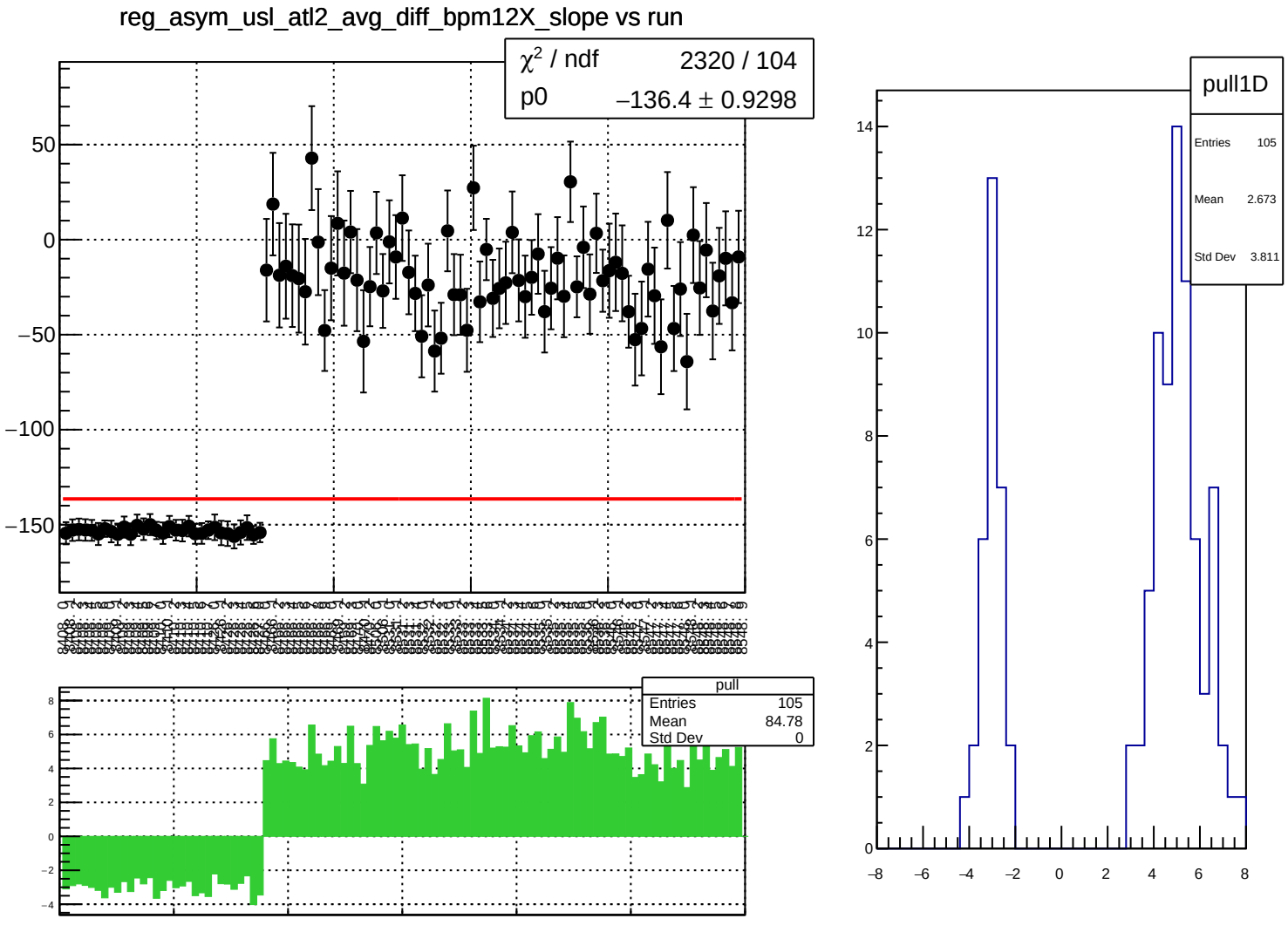

reg_asym_usl_atl1_dd_diff_bpm12X_slope vs run
χ² / ndf 141.7 / 104
p0 −17.27 ± 0.1164
pull
Entries 105
Mean −2250
Std Dev 0
pull1D
Entries 105
Mean −0.009863
Std Dev 1.162

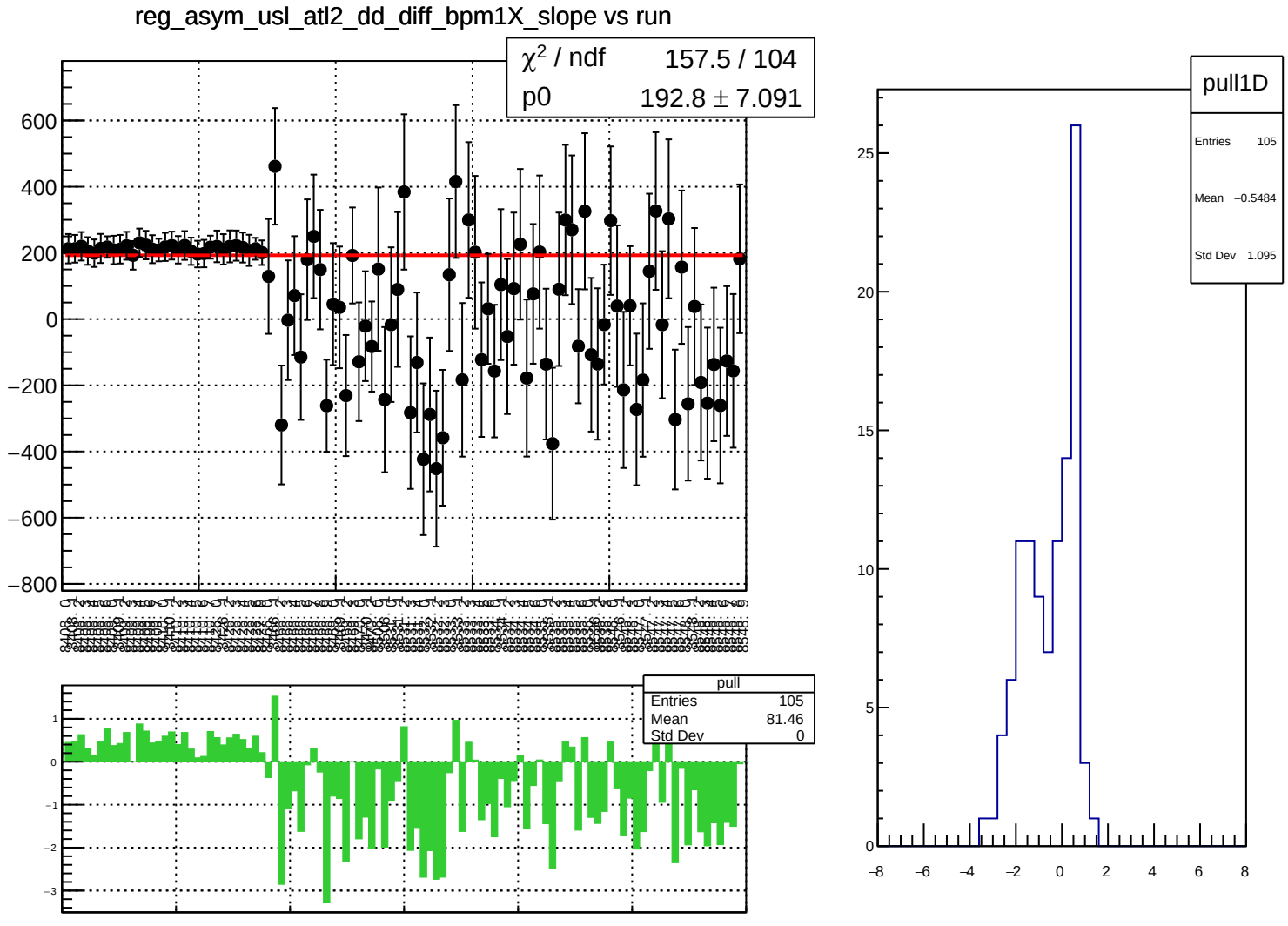

reg_asym_usl_atl2_avg_diff_bpm1X_slope vs run
χ² / ndf 150.1 / 104
p0 −247 ± 7.85
600
400
200
0
−200
−400
−600
−800
pull
Entries 105
Mean 84.2
Std Dev 0
3
2
1
0
−1
pull1D
Entries 105
Mean 0.4995
Std Dev 1.086
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

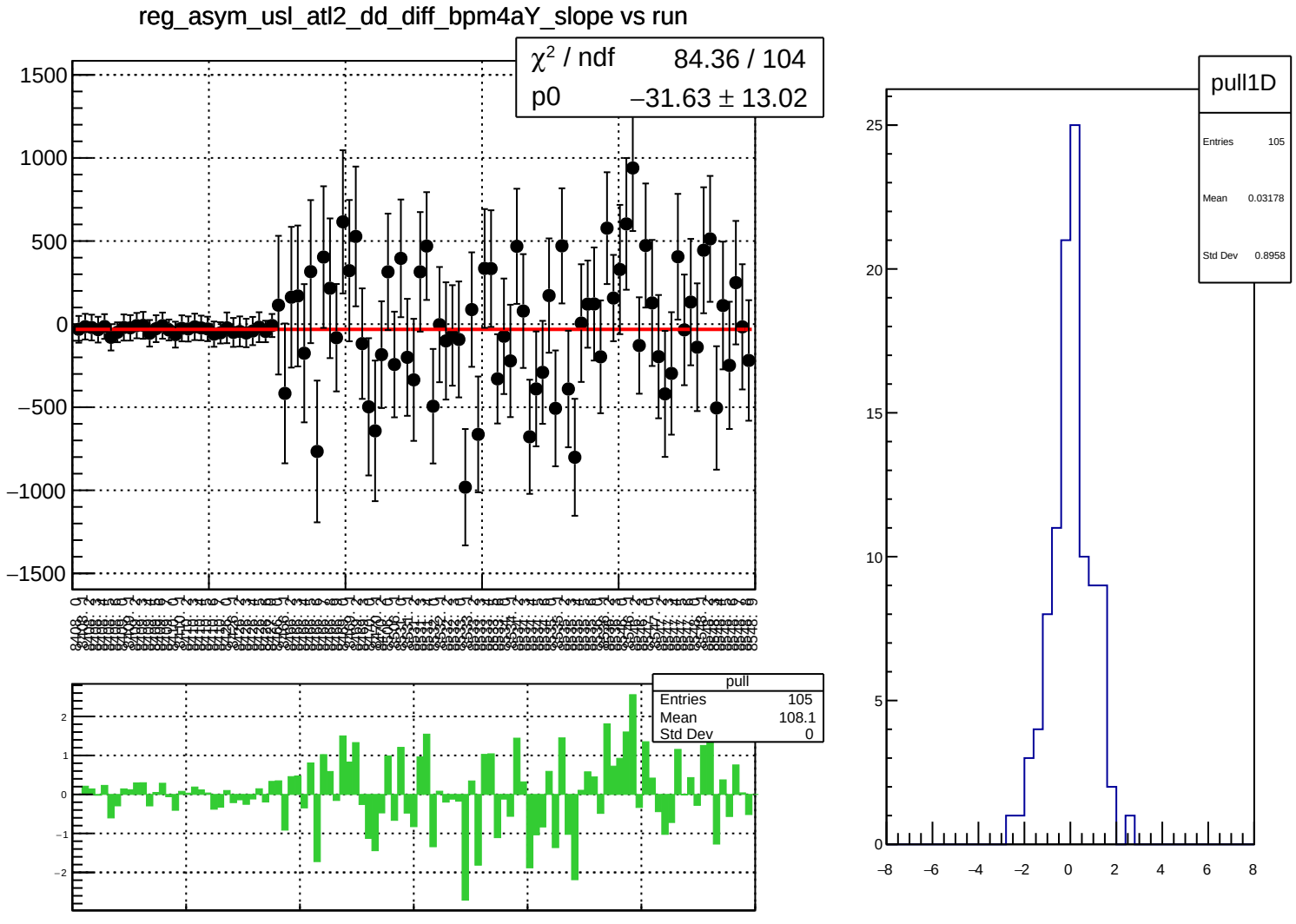

reg_asym_usl_atl2_avg_diff_bpm4aY_slope vs run
χ² / ndf 84.38 / 104
p0 40.13 ± 14.4
1500
1000
500
0
−500
−1000
−1500
pull
Entries 105
Mean 108.2
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.03102
Std Dev 0.8959
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

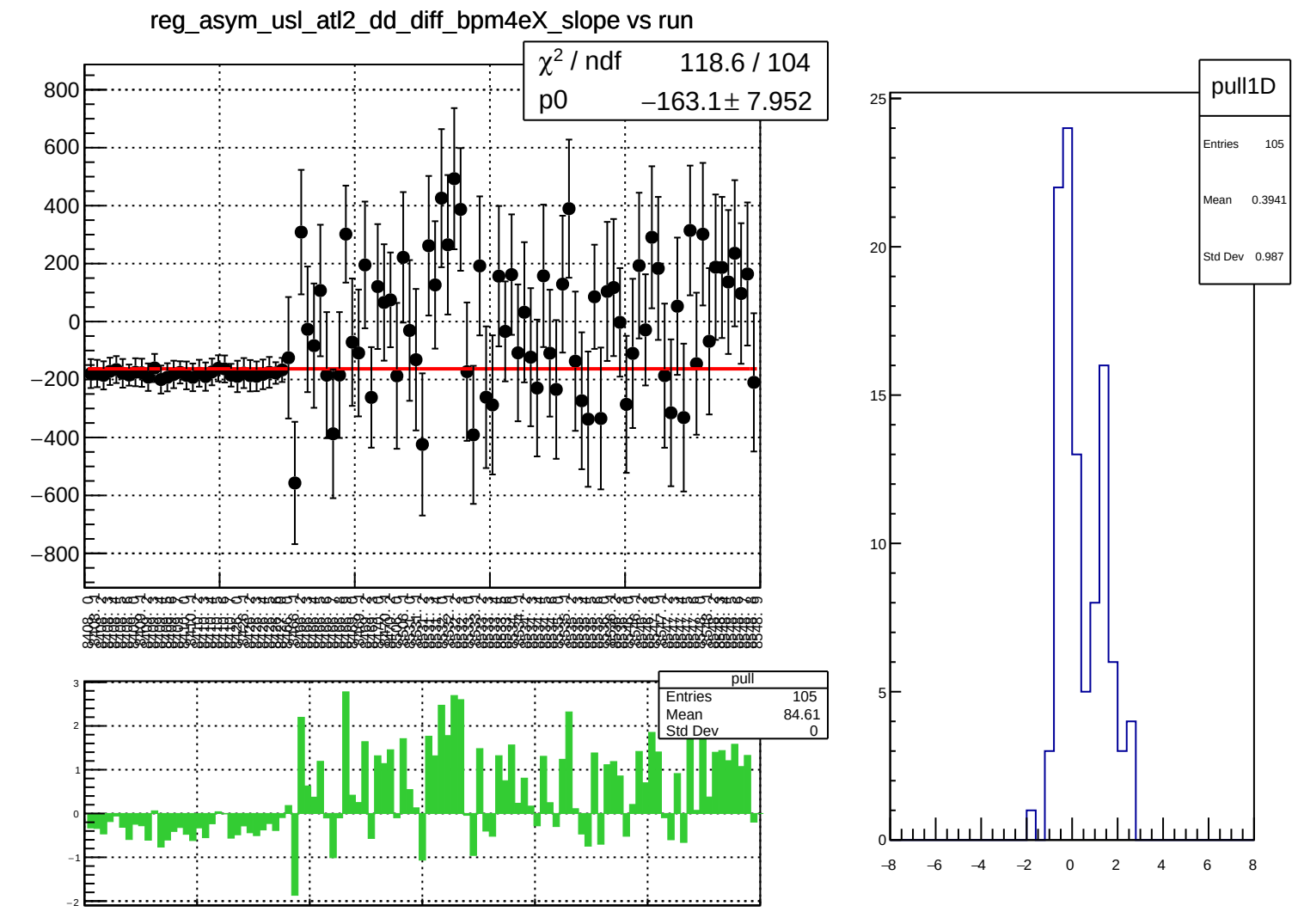

reg_asym_usl_atl2_avg_diff_bpm4eX_slope vs run
χ² / ndf 115.9 / 104
p0 151.3 ± 8.798
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 105
Mean 88.11
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean −0.3613
Std Dev 0.9866
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

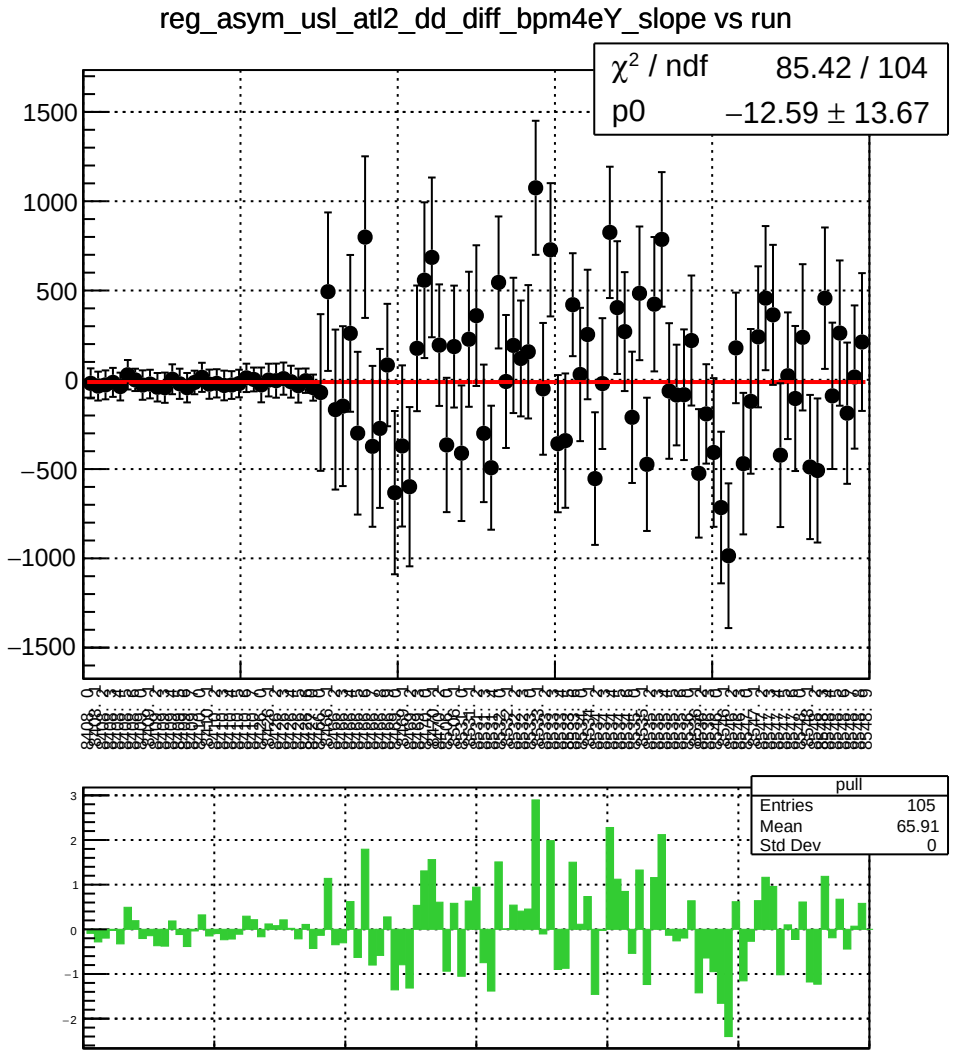

reg_asym_usl_atl2_avg_diff_bpm4eY_slope vs run
χ² / ndf 85.74 / 104
p0 24.43 ± 15.12
1500
1000
500
0
−500
−1000
−1500
pull
Entries 105
Mean 67.91
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 105
Mean −0.04851
Std Dev 0.9024
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

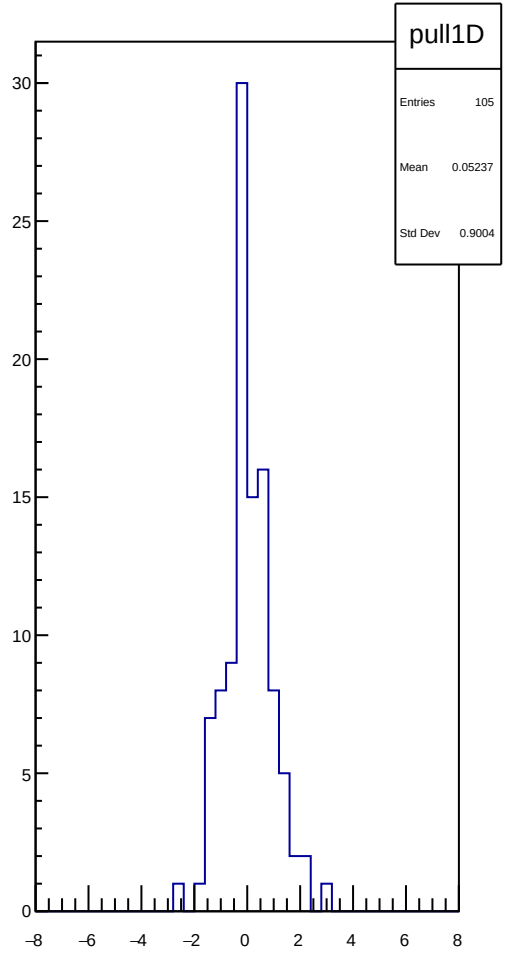

reg_asym_usl_atl2_avg_diff_bpm12X_slope vs run
χ² / ndf 2320 / 104
p0 −136.4 ± 0.9298
50
0
−50
−100
−150
pull
Entries 105
Mean 84.78
Std Dev 0
8
6
4
2
0
−2
−4
pull1D
Entries 105
Mean 2.673
Std Dev 3.811
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

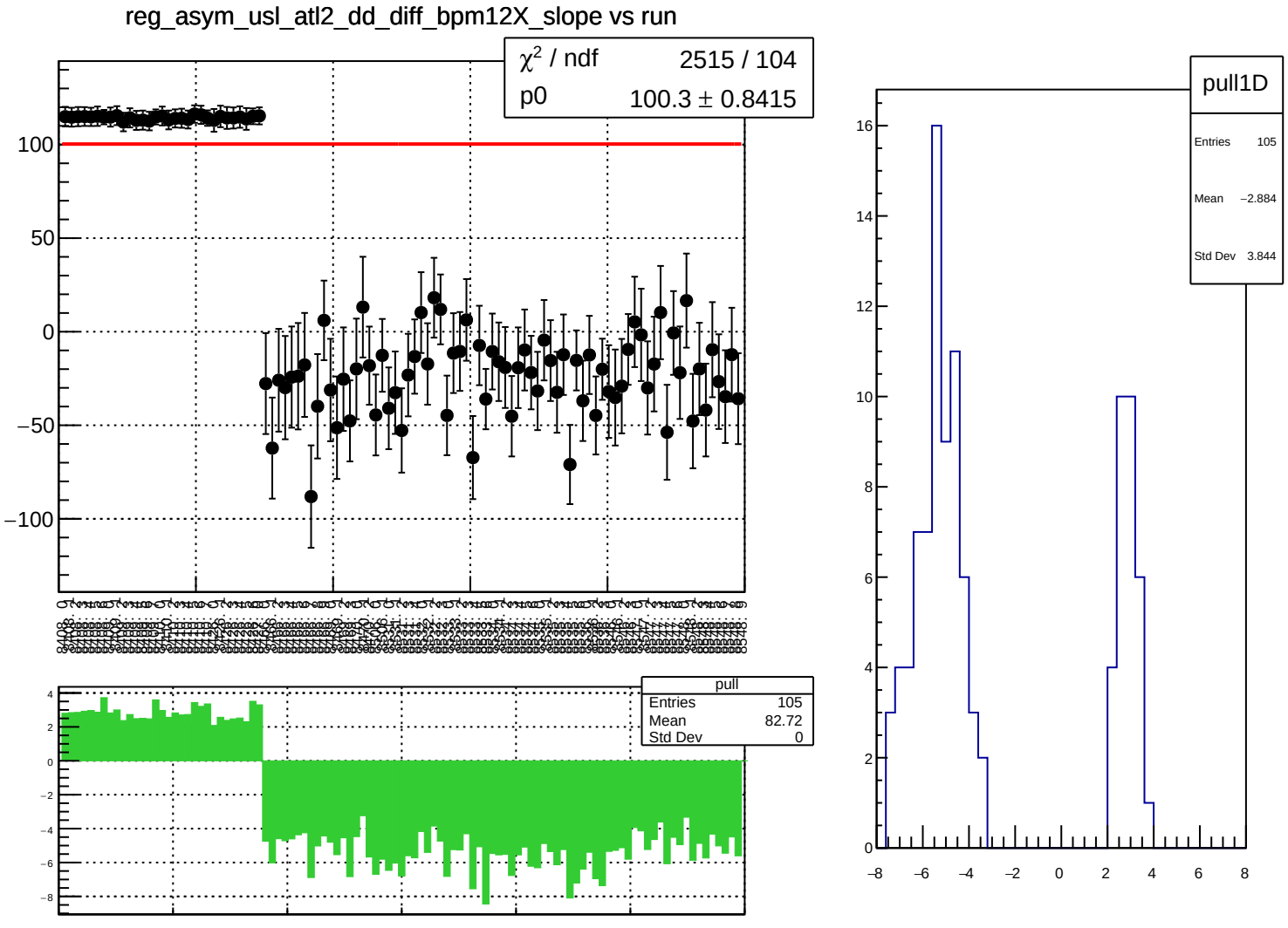

reg_asym_usl_atl2_dd_diff_bpm1X_slope vs run
χ² / ndf 157.5 / 104
p0 192.8 ± 7.091
600
400
200
0
−200
−400
−600
−800
pull
Entries 105
Mean 81.46
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 105
Mean −0.5484
Std Dev 1.095
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

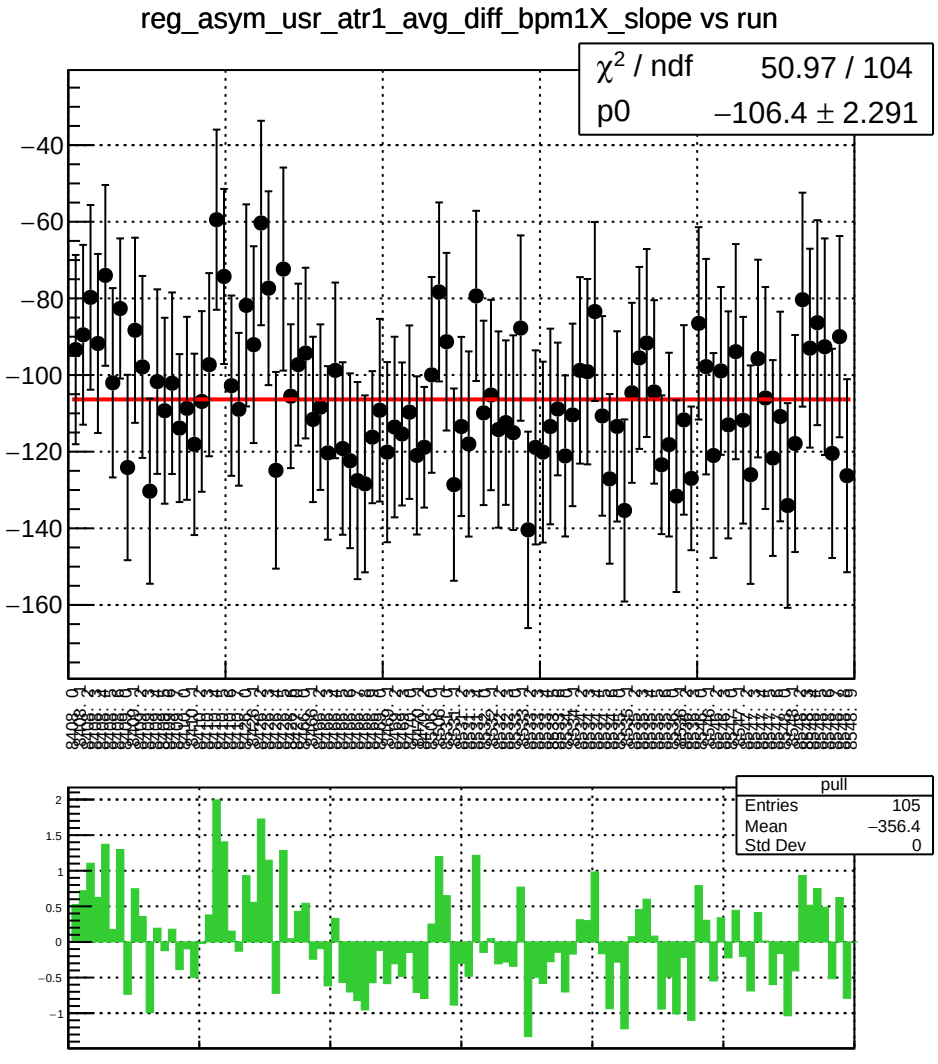

reg_asym_usl_atl2_dd_diff_bpm4aY_slope vs run
χ² / ndf 84.36 / 104
p0 −31.63 ± 13.02
1500
1000
500
0
−500
−1000
−1500
pull
Entries 105
Mean 108.1
Std Dev 0
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.03178
Std Dev 0.8958
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

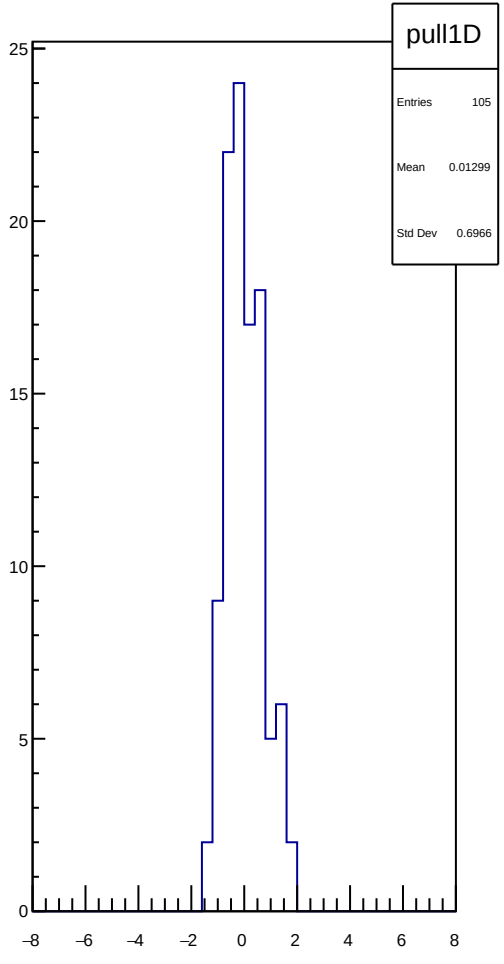

reg_asym_usl_atl2_dd_diff_bpm4eX_slope vs run
χ² / ndf 118.6 / 104
p0 −163.1± 7.952
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 105
Mean 84.61
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.3941
Std Dev 0.987
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

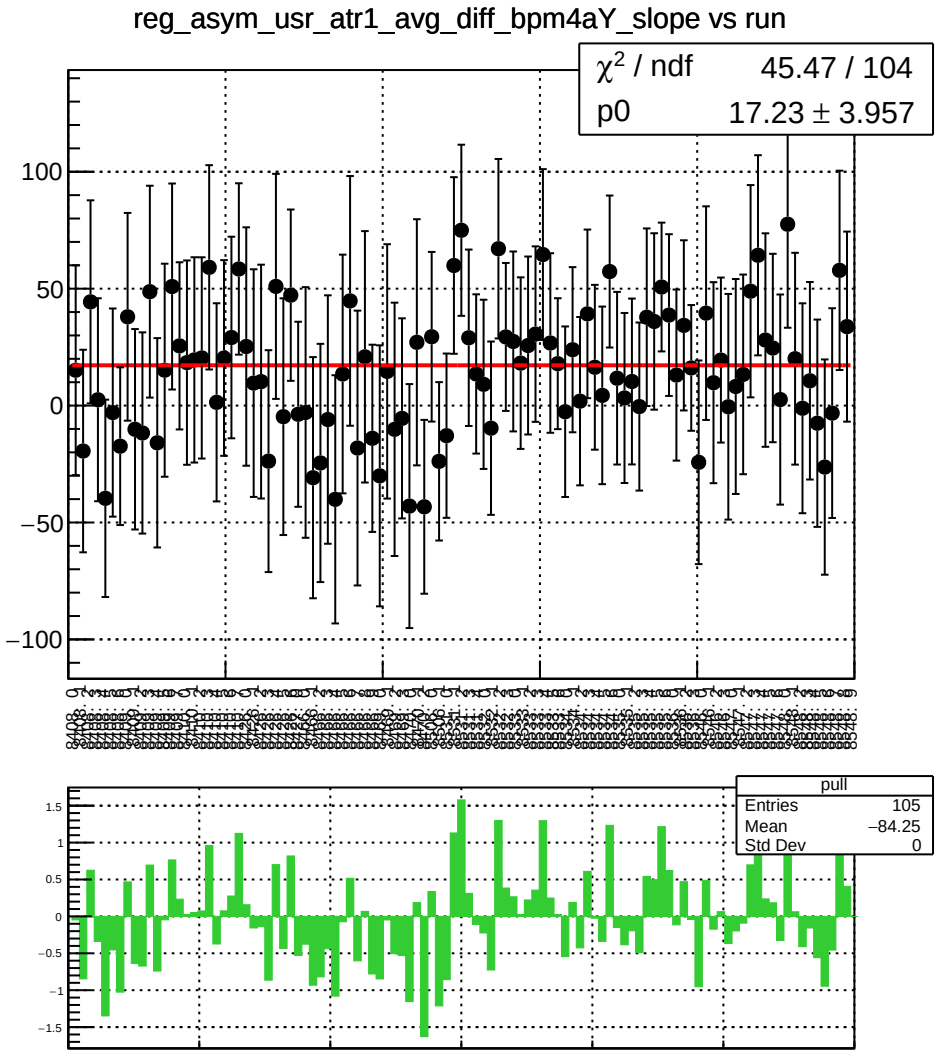

reg_asym_usl_atl2_dd_diff_bpm4eY_slope vs run
χ² / ndf 85.42 / 104
p0 −12.59 ± 13.67
1500
1000
500
0
−500
−1000
−1500
pull
Entries 105
Mean 65.91
Std Dev 0
3
2
1
0
−1
−2

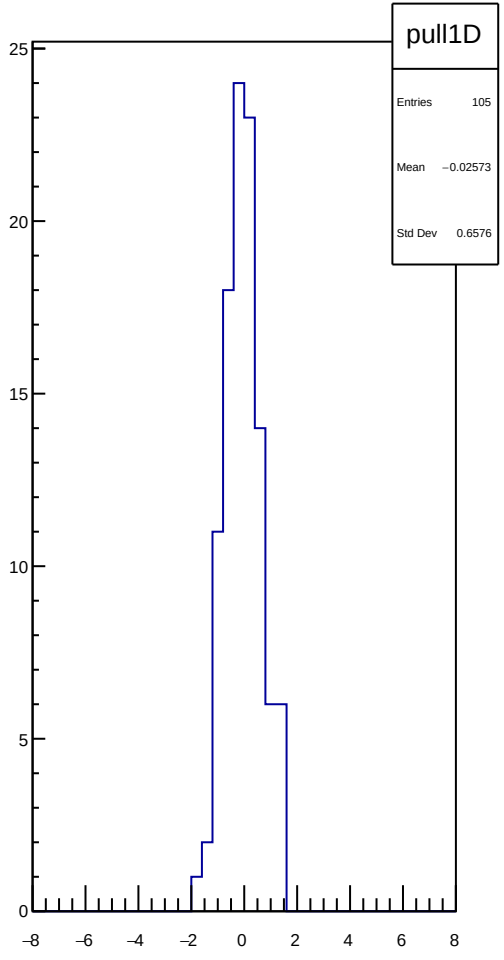

pull1D
Entries 105
Mean 0.05237
Std Dev 0.9004
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

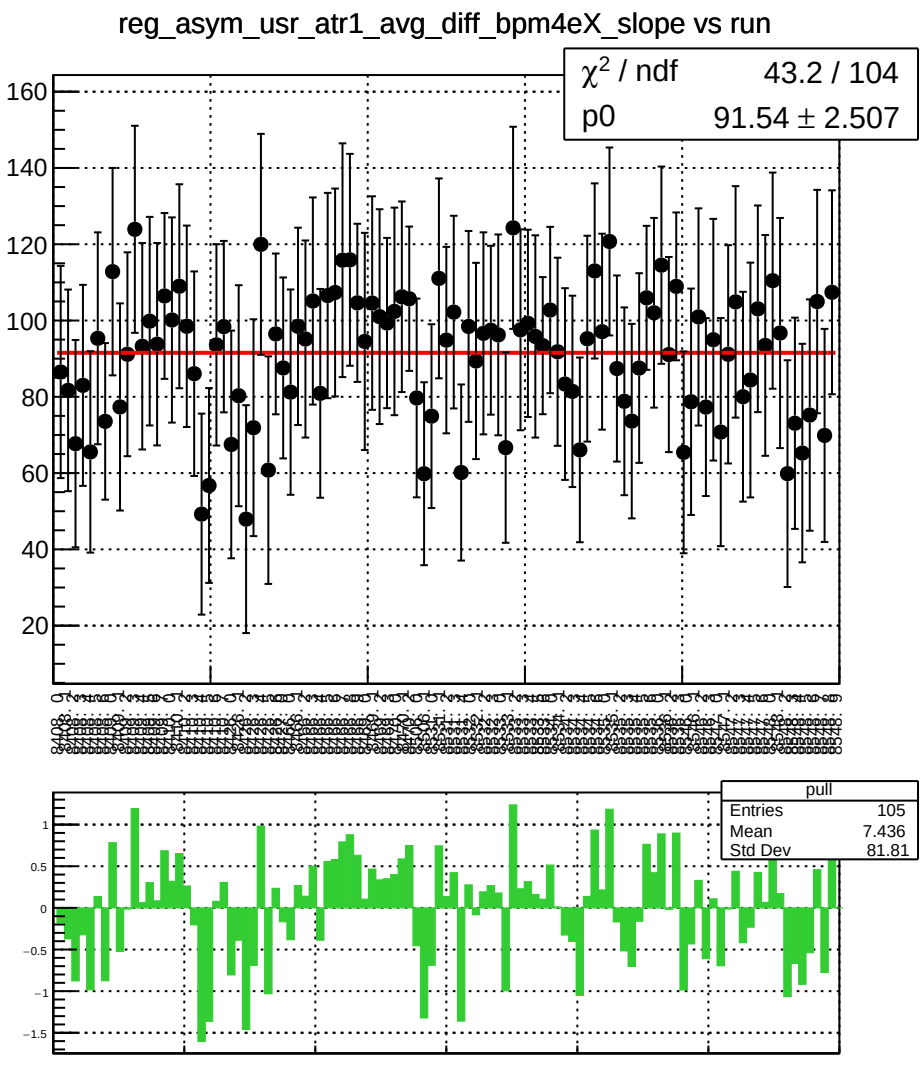

reg_asym_usl_atl2_dd_diff_bpm12X_slope vs run
χ² / ndf 2515 / 104
p0 100.3 ± 0.8415
100
50
0
−50
−100
pull
Entries 105
Mean 82.72
Std Dev 0
4
2
0
−2
−4
−6
−8
pull1D
Entries 105
Mean −2.884
Std Dev 3.844
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

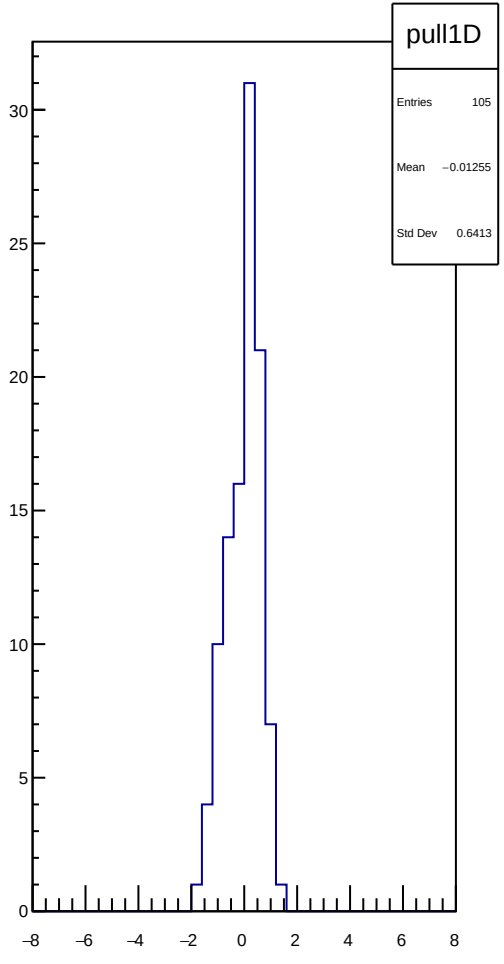

reg_asym_usr_atr1_avg_diff_bpm1X_slope vs run
χ² / ndf 50.97 / 104
p0 −106.4 ± 2.291
−40
−60
−80
−100
−120
−140
−160
pull
Entries 105
Mean −356.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1

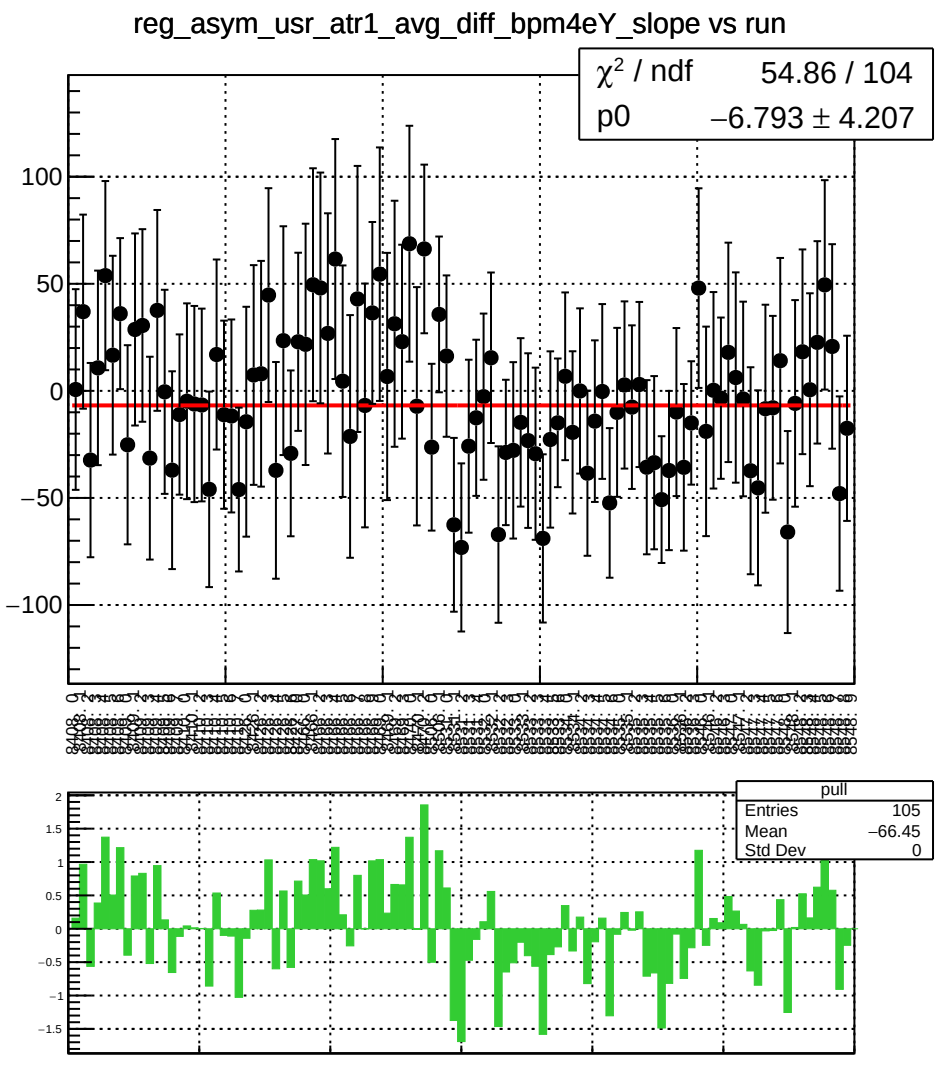

pull1D
Entries 105
Mean 0.01299
Std Dev 0.6966
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

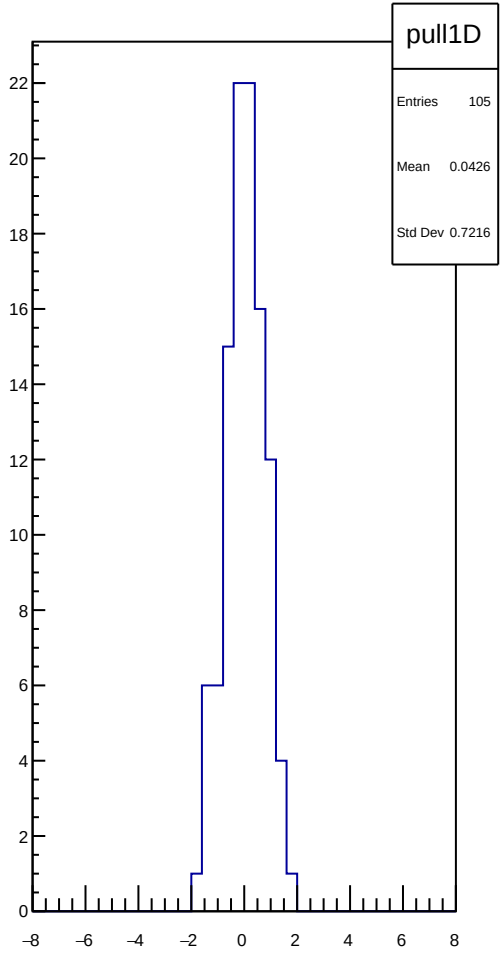

reg_asym_usr_atr1_avg_diff_bpm4aY_slope vs run
χ² / ndf 45.47 / 104
p0 17.23 ± 3.957
100
50
0
−50
−100
pull
Entries 105
Mean −84.25
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5

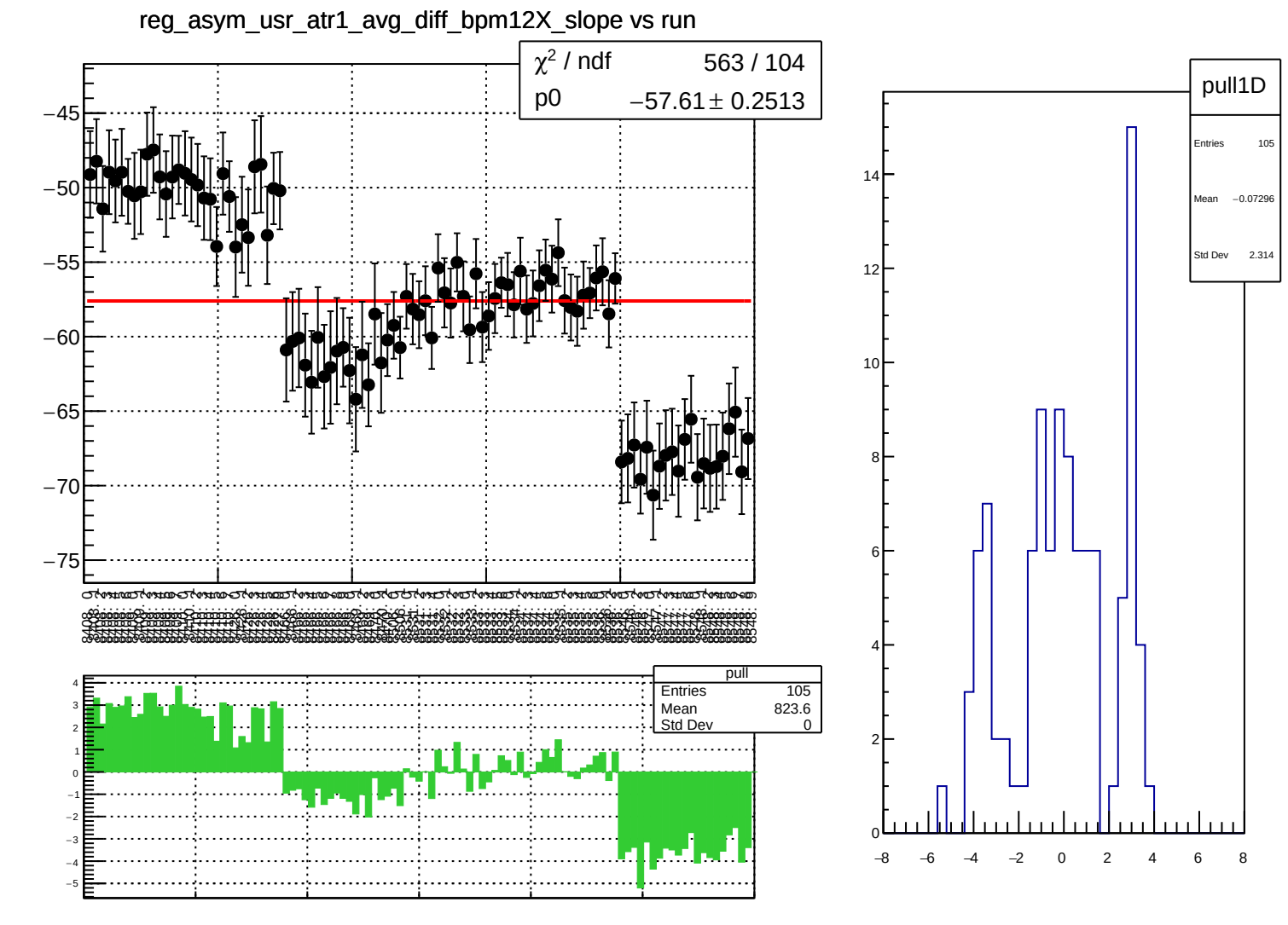

pull1D
Entries 105
Mean −0.02573
Std Dev 0.6576
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

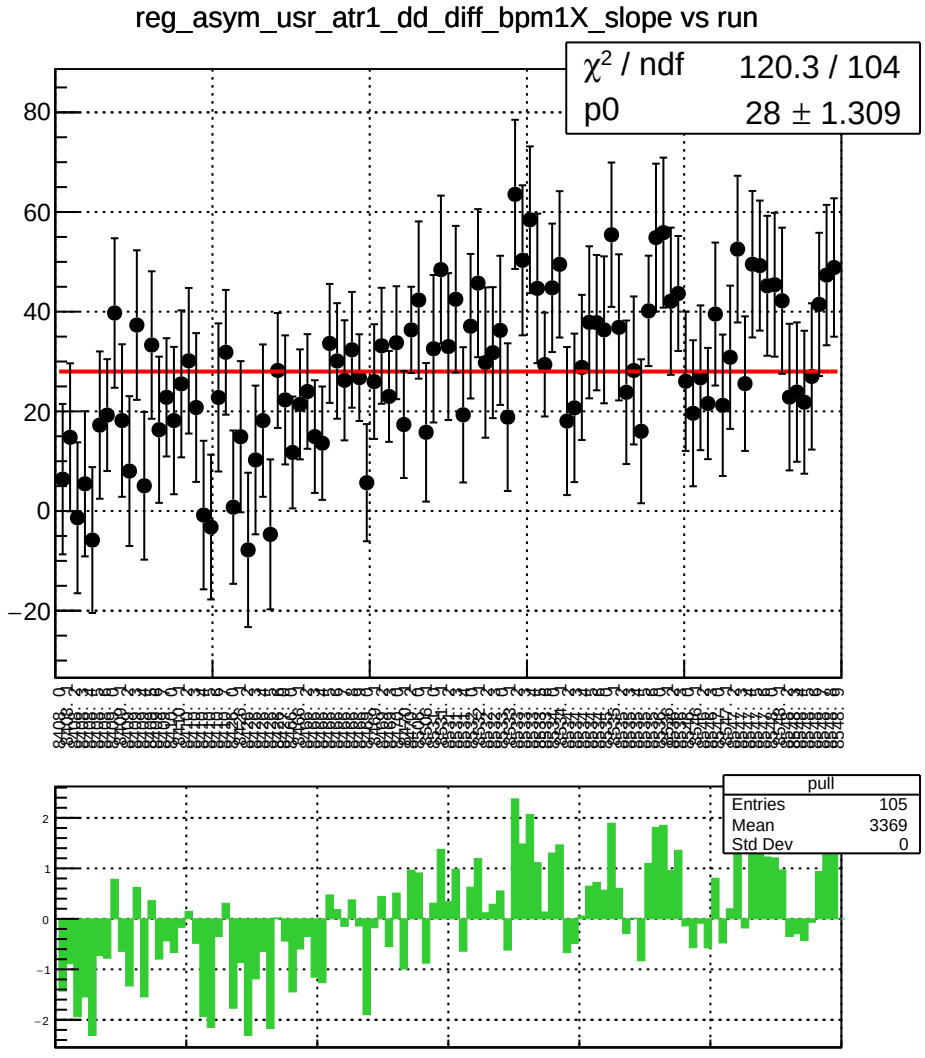

reg_asym_usr_atr1_avg_diff_bpm4eX_slope vs run
χ² / ndf 43.2 / 104
p0 91.54 ± 2.507
160
140
120
100
80
60
40
20
pull
Entries 105
Mean 7.436
Std Dev 81.81
1
0.5
0
−0.5
−1
−1.5

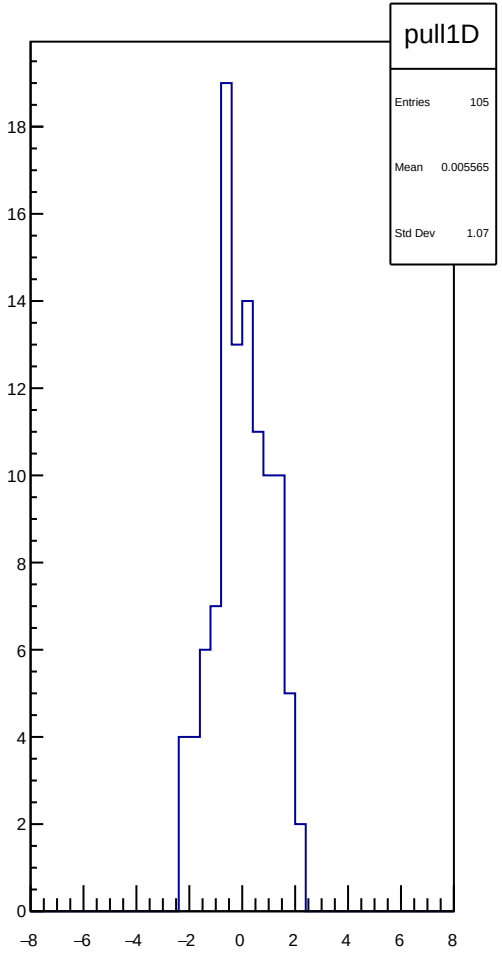

pull1D
Entries 105
Mean −0.01255
Std Dev 0.6413
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

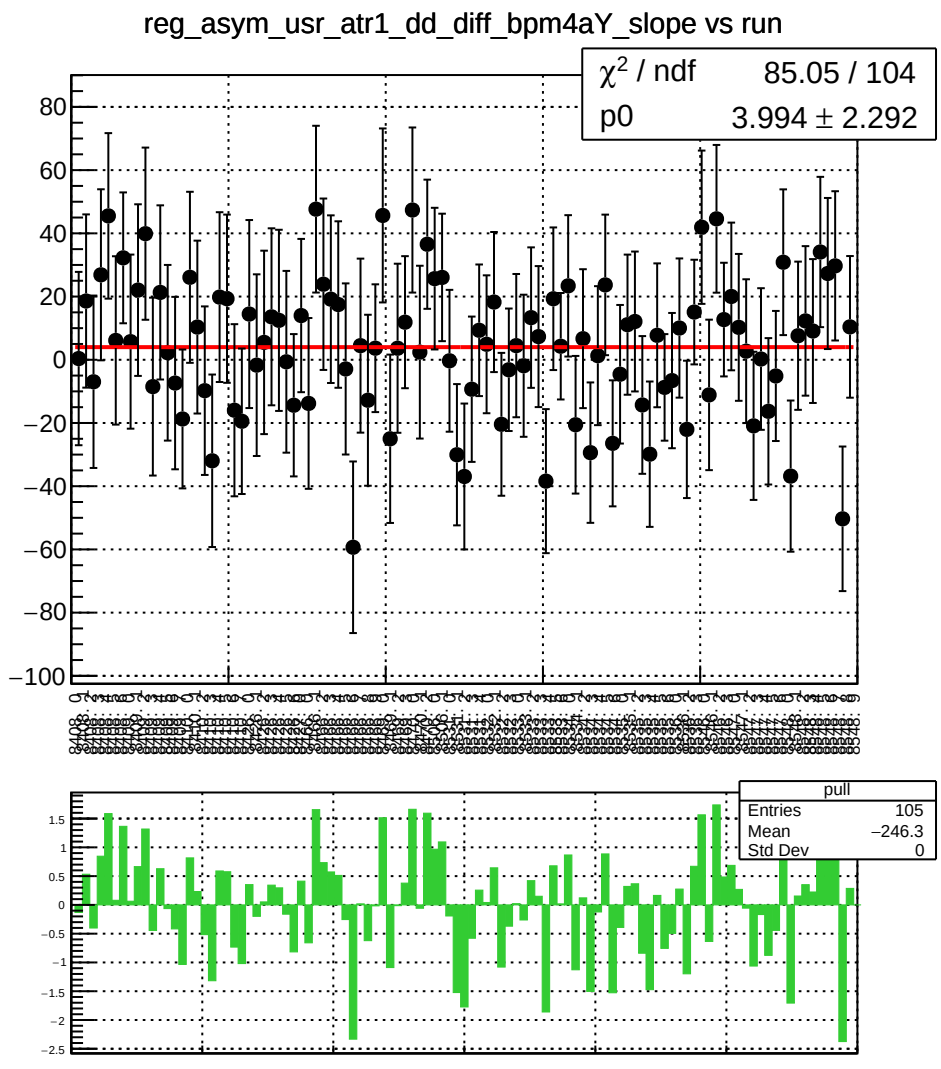

reg_asym_usr_atr1_avg_diff_bpm4eY_slope vs run
χ² / ndf 54.86 / 104
p0 −6.793 ± 4.207
100
50
0
−50
−100
pull
Entries 105
Mean −66.45
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

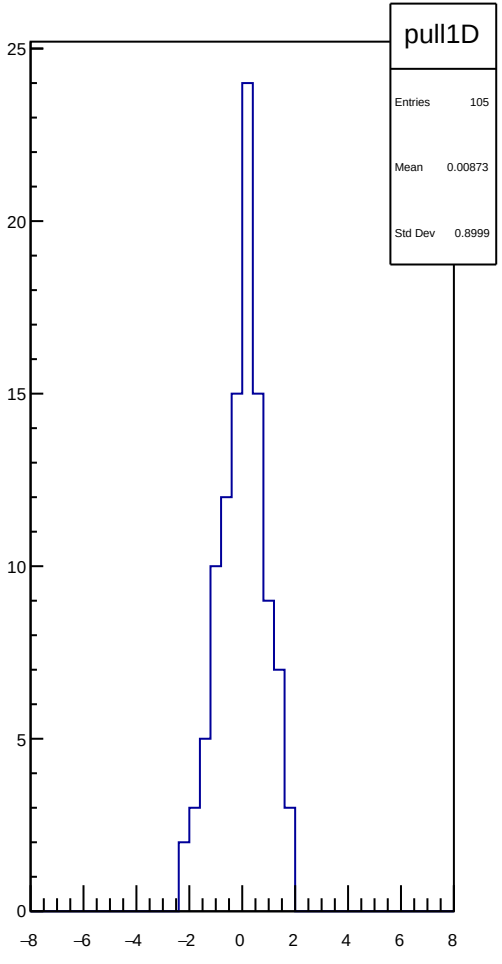

pull1D
Entries 105
Mean 0.0426
Std Dev 0.7216
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

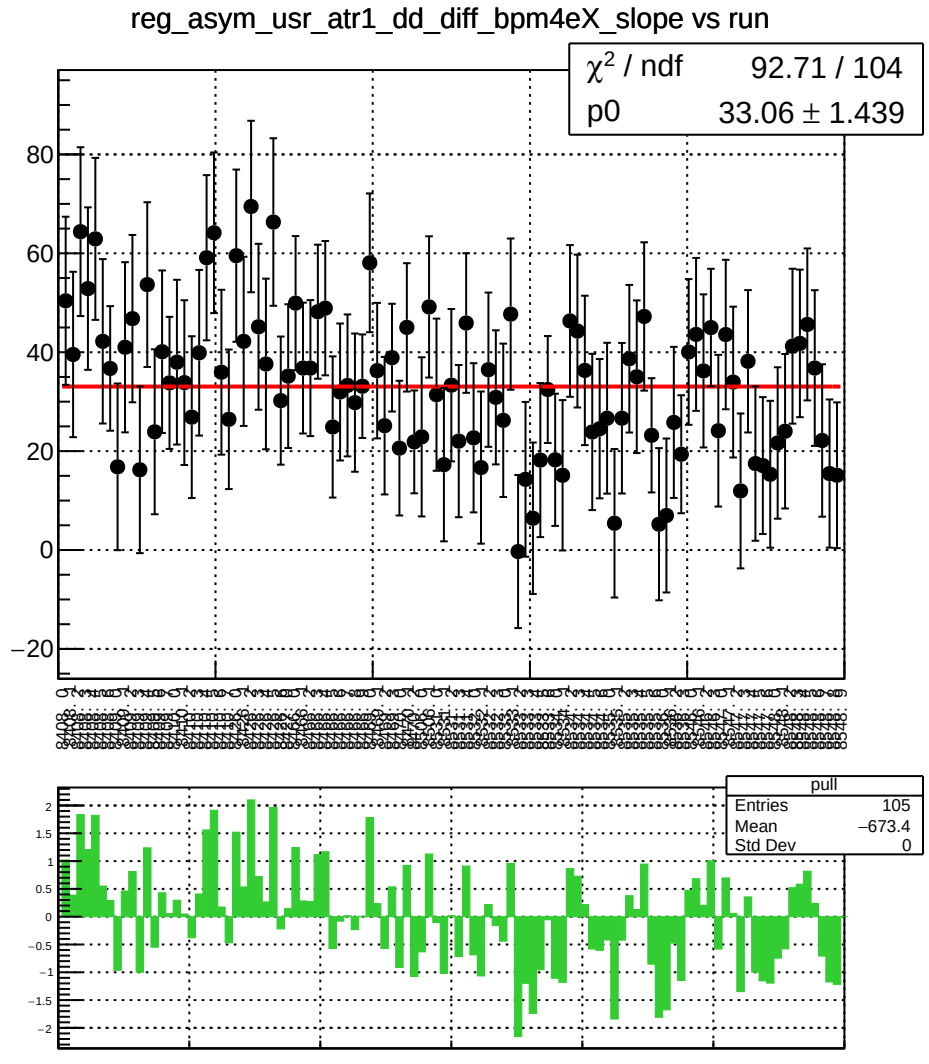

reg_asym_usr_atr1_avg_diff_bpm12X_slope vs run
χ² / ndf 563 / 104
p0 −57.61 ± 0.2513
pull
Entries 105
Mean 823.6
Std Dev 0
pull1D
Entries 105
Mean −0.07296
Std Dev 2.314

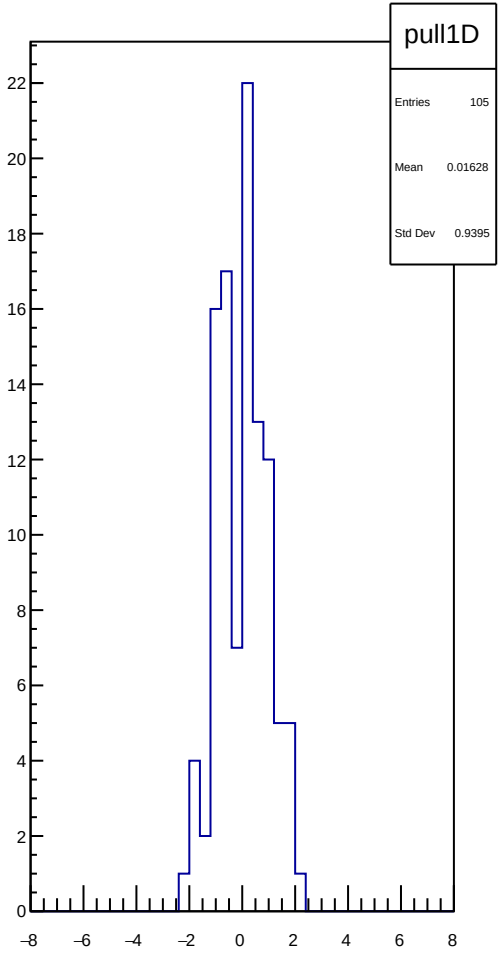

reg_asym_usr_atr1_dd_diff_bpm1X_slope vs run
χ² / ndf 120.3 / 104
p0 28 ± 1.309
pull
Entries 105
Mean 3369
Std Dev 0

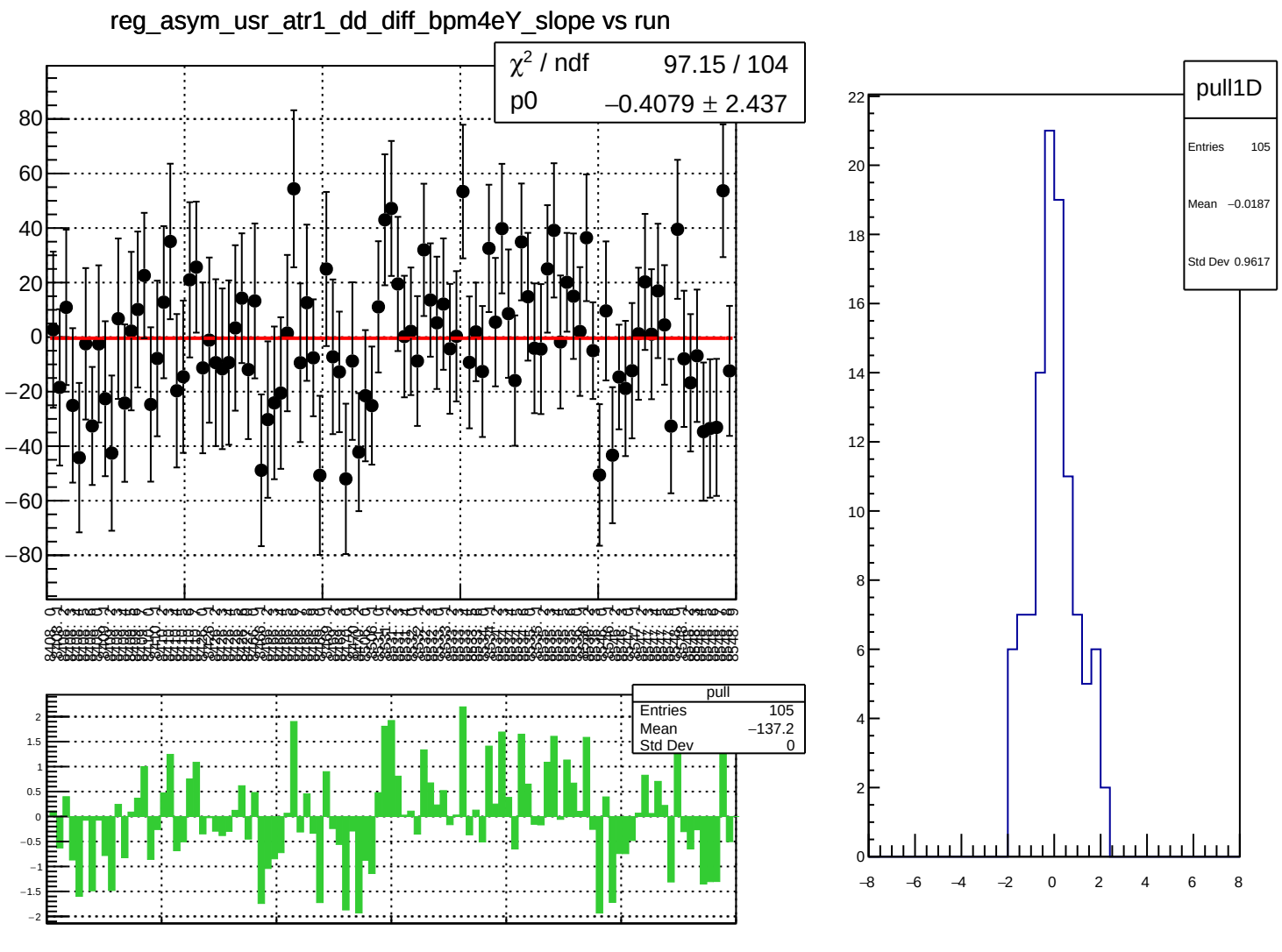

pull1D
Entries 105
Mean 0.005565
Std Dev 1.07

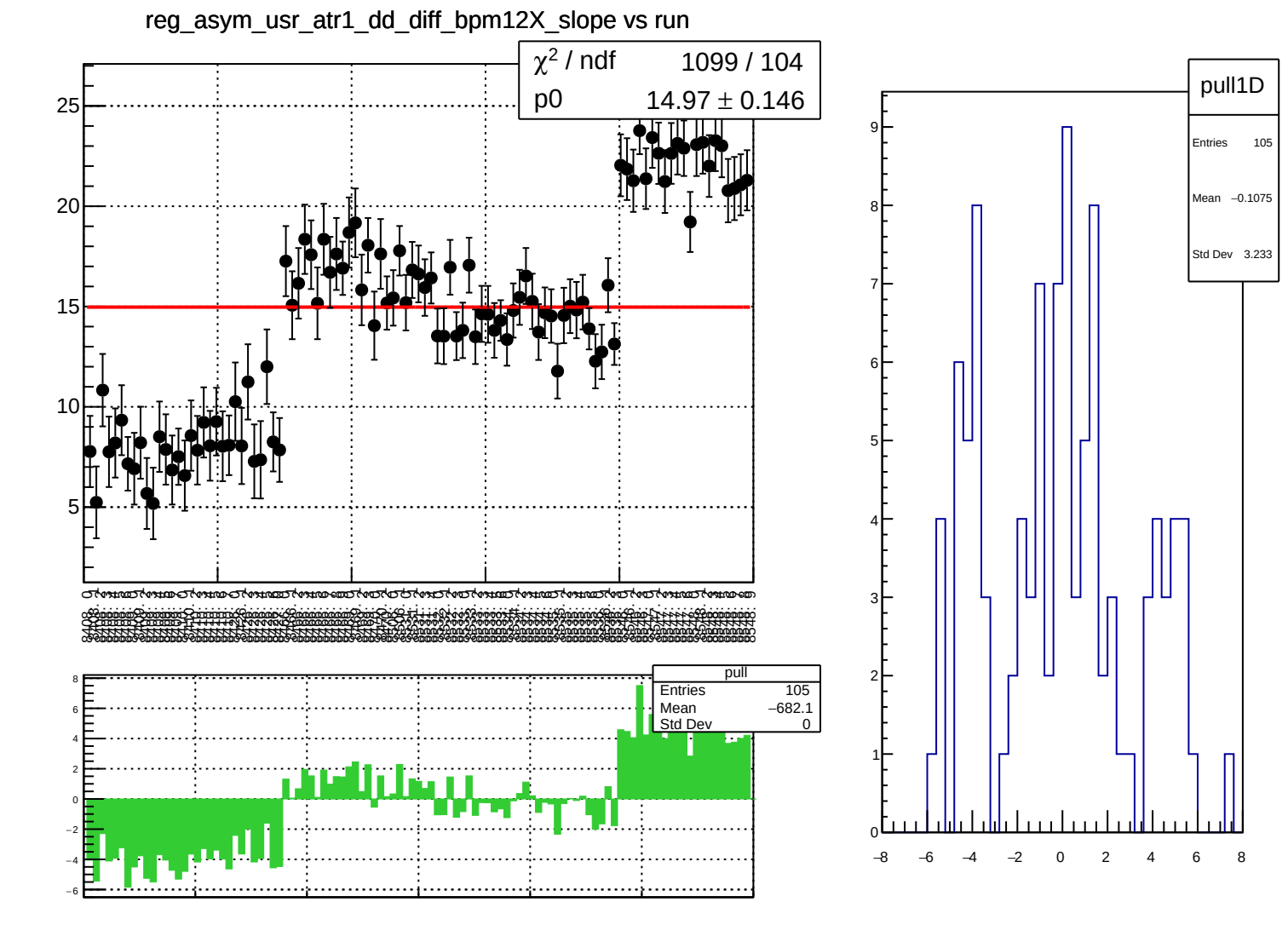

reg_asym_usr_atr1_dd_diff_bpm4aY_slope vs run
χ² / ndf 85.05 / 104
p0 3.994 ± 2.292
pull
Entries 105
Mean −246.3
Std Dev 0

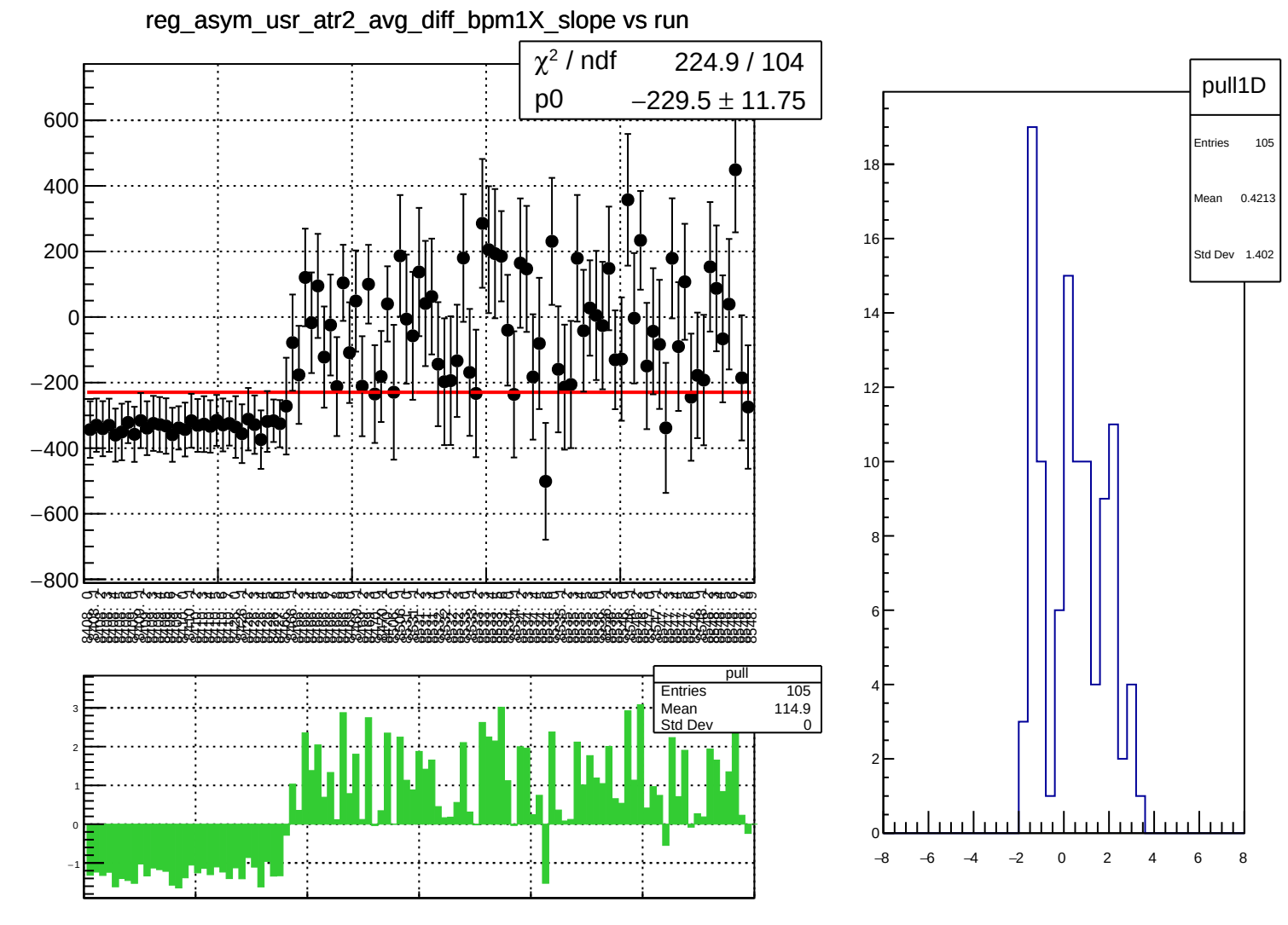

pull1D
Entries 105
Mean 0.00873
Std Dev 0.8999

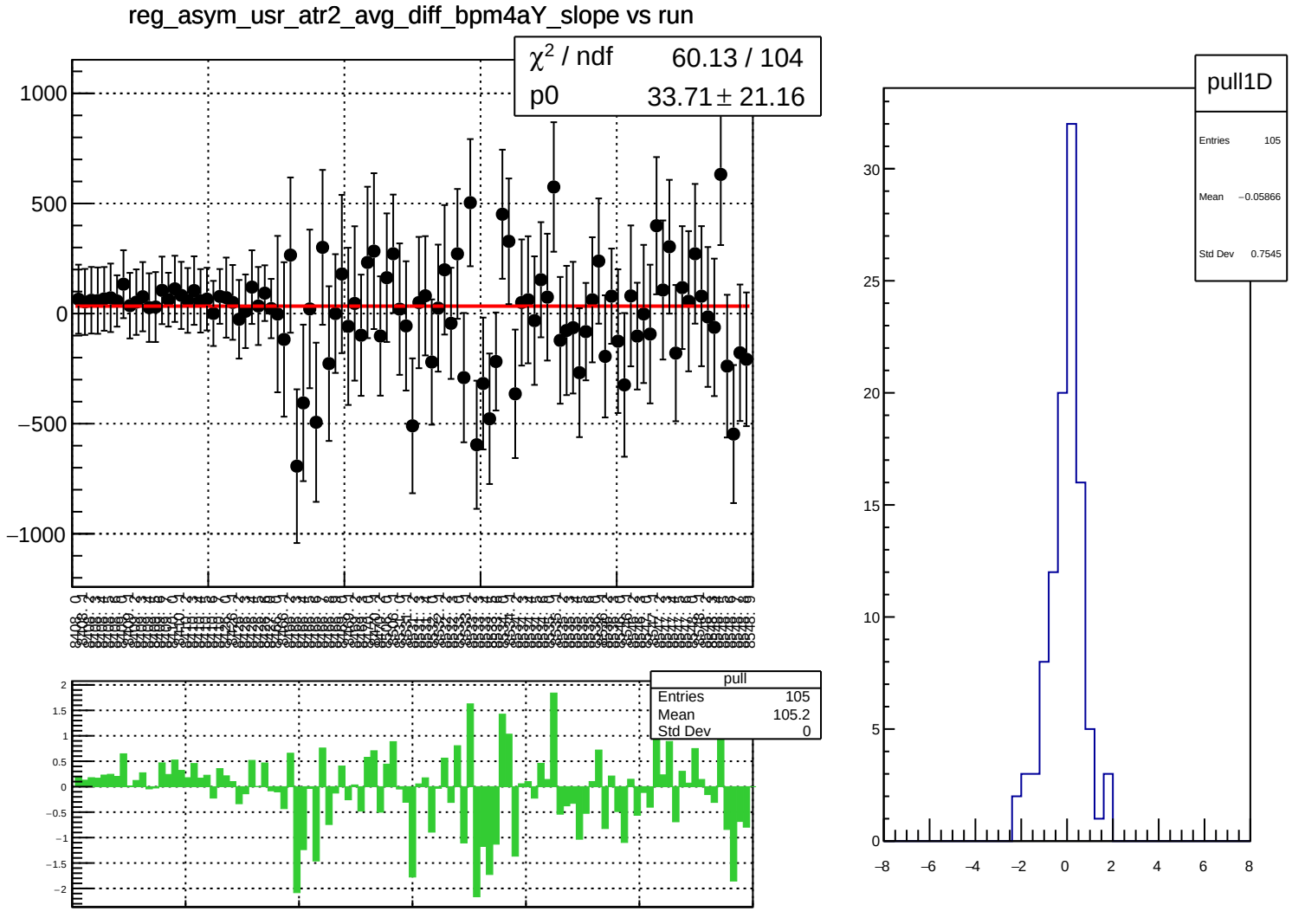

reg_asym_usr_atr1_dd_diff_bpm4eX_slope vs run
χ² / ndf 92.71 / 104
p0 33.06 ± 1.439
80
60
40
20
0
−20
pull
Entries 105
Mean −673.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

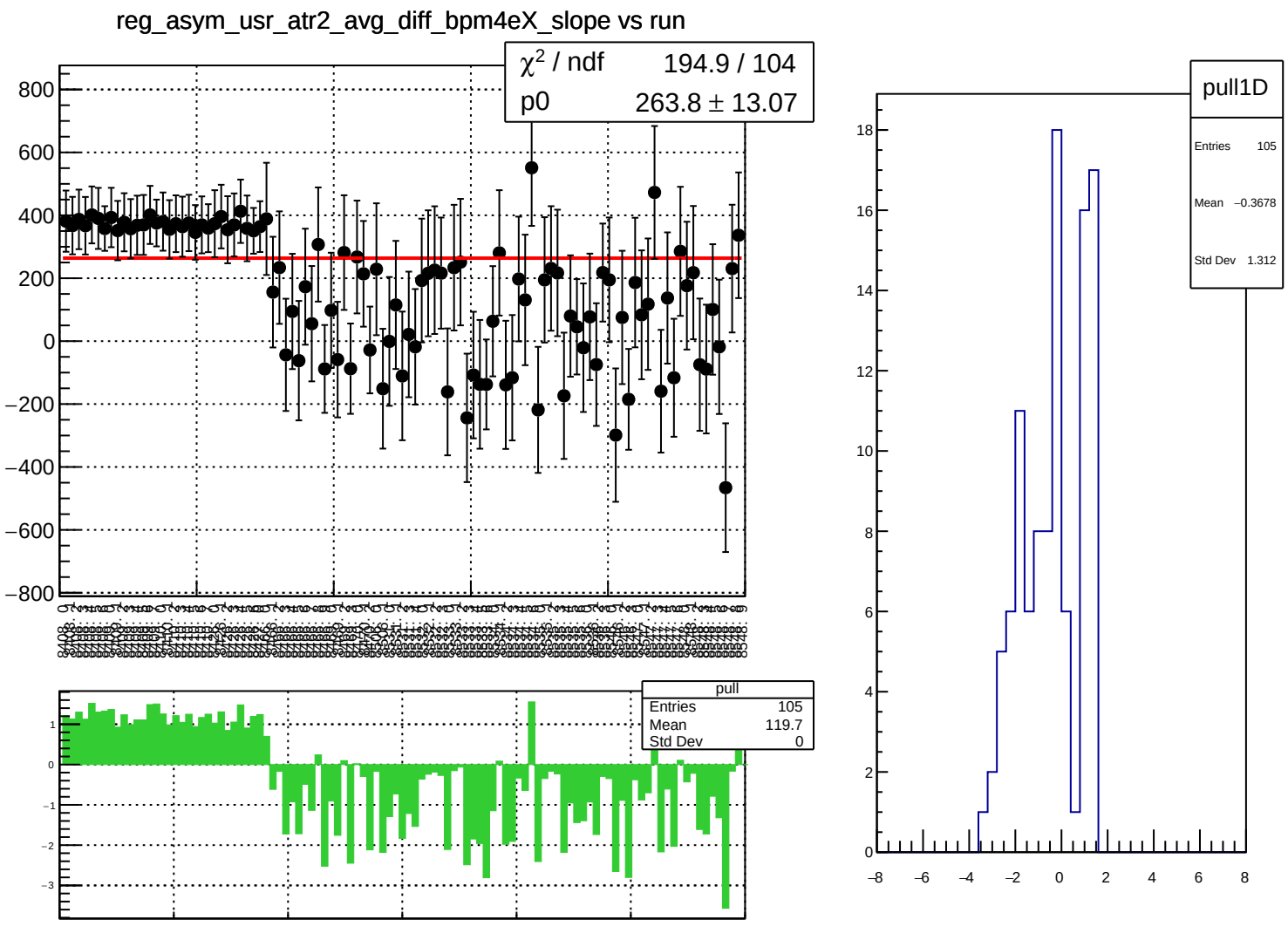

pull1D
Entries 105
Mean 0.01628
Std Dev 0.9395
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

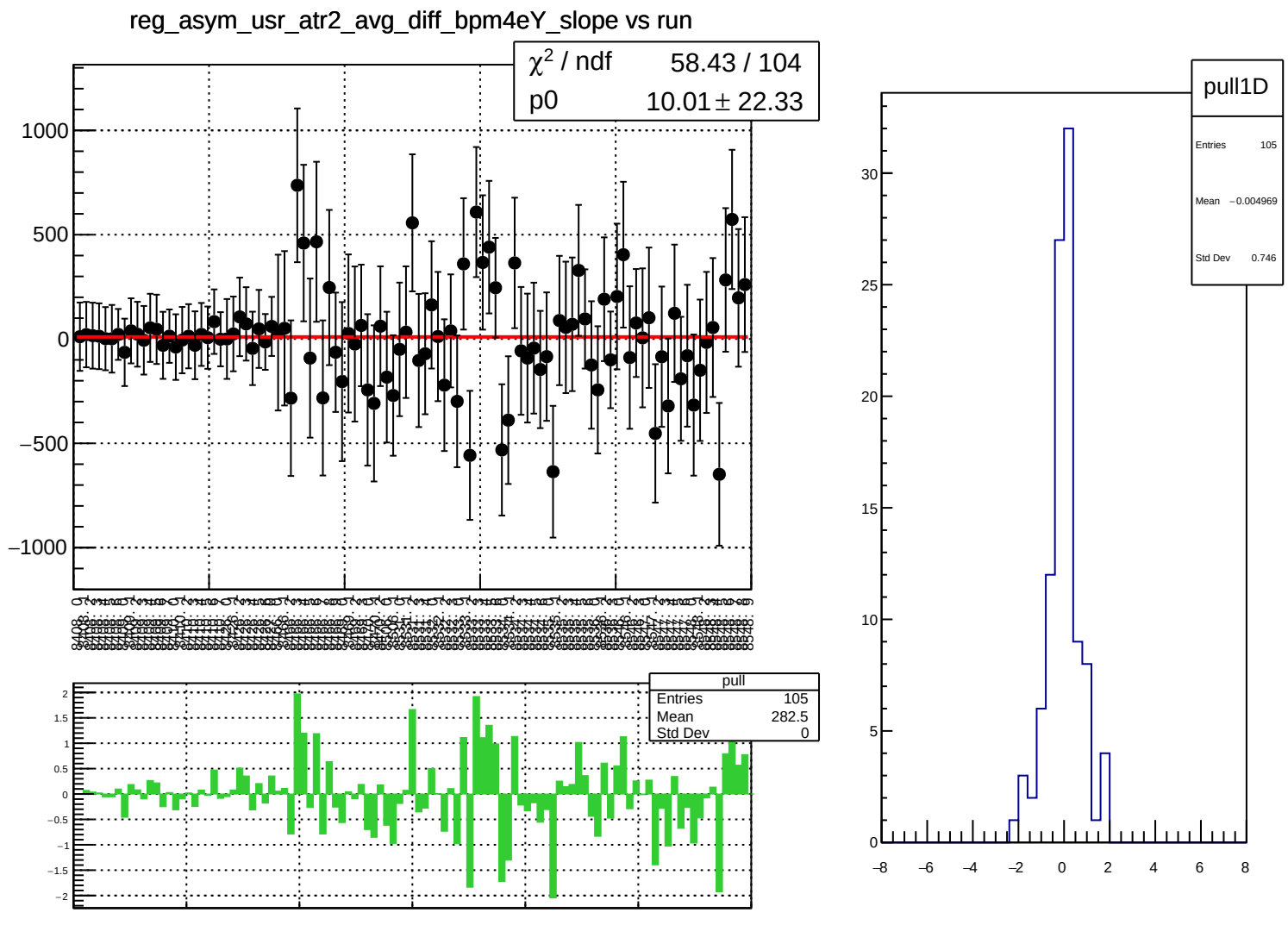

reg_asym_usr_atr1_dd_diff_bpm4eY_slope vs run
χ² / ndf 97.15 / 104
p0 −0.4079 ± 2.437
pull
Entries 105
Mean −137.2
Std Dev 0
pull1D
Entries 105
Mean −0.0187
Std Dev 0.9617

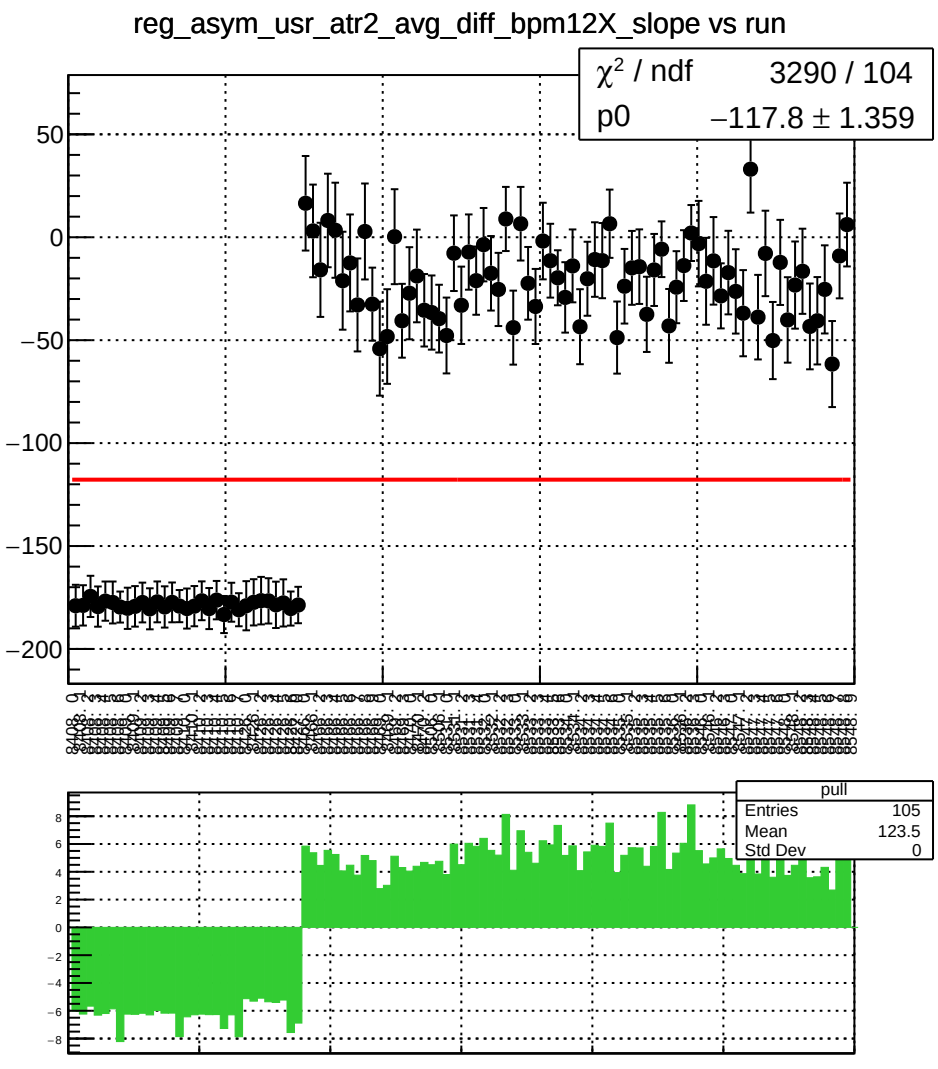

reg_asym_usr_atr1_dd_diff_bpm12X_slope vs run
χ² / ndf 1099 / 104
p0 14.97 ± 0.146
25
20
15
10
5
pull
Entries 105
Mean −682.1
Std Dev 0
8
6
4
2
0
−2
−4
−6
pull1D
Entries 105
Mean −0.1075
Std Dev 3.233
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

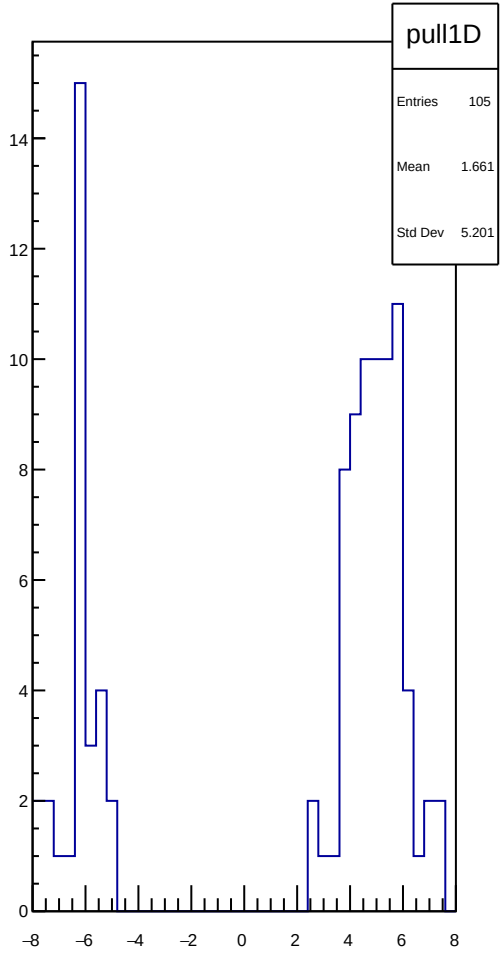

reg_asym_usr_atr2_avg_diff_bpm1X_slope vs run
χ² / ndf 224.9 / 104
p0 −229.5 ± 11.75
600
400
200
0
−200
−400
−600
−800
pull
Entries 105
Mean 114.9
Std Dev 0
3
2
1
0
−1
pull1D
Entries 105
Mean 0.4213
Std Dev 1.402
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

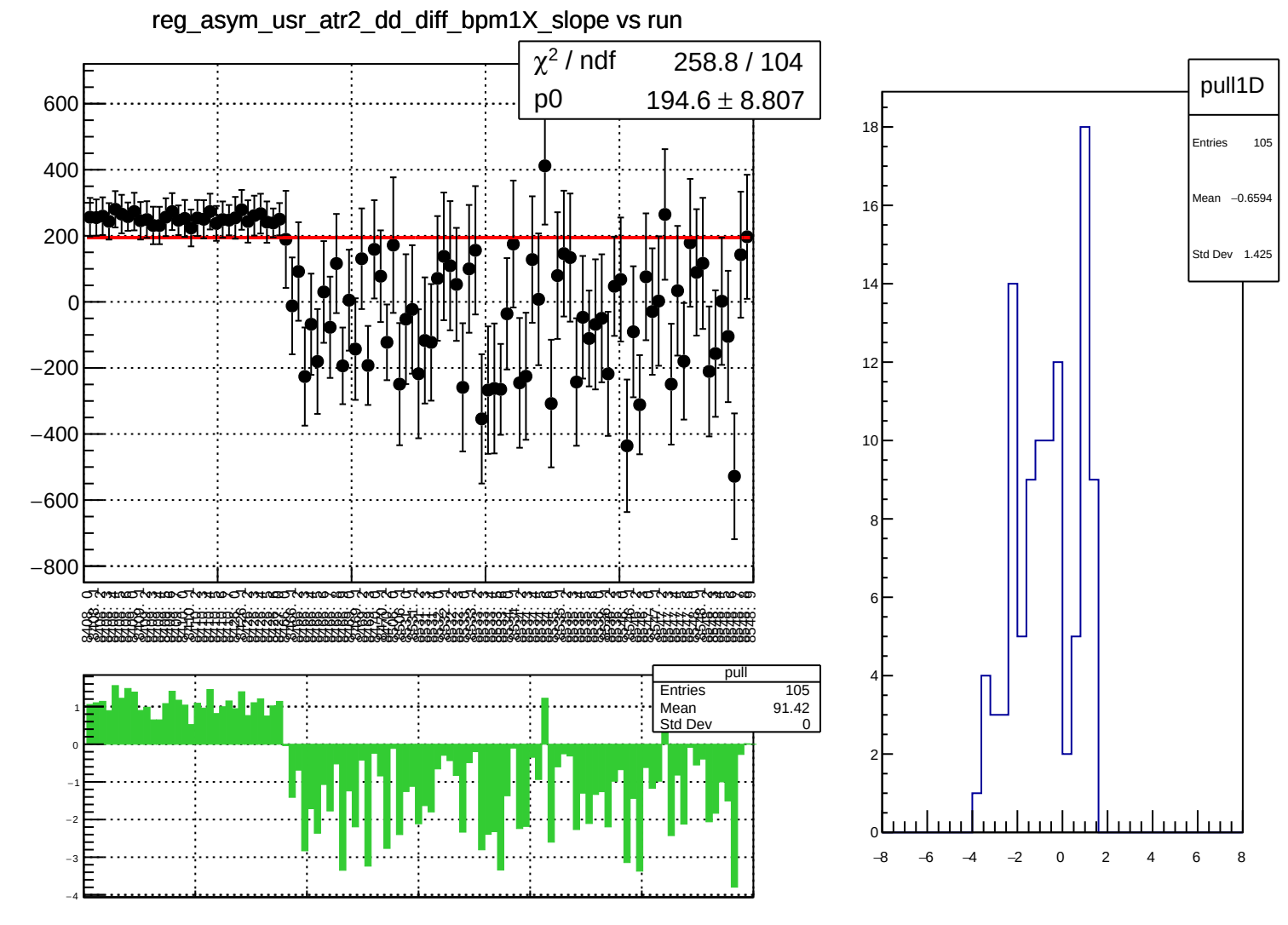

reg_asym_usr_atr2_avg_diff_bpm4aY_slope vs run
χ² / ndf 60.13 / 104
p0 33.71 ± 21.16
1000
500
0
−500
−1000
pull
Entries 105
Mean 105.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 105
Mean −0.05866
Std Dev 0.7545
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

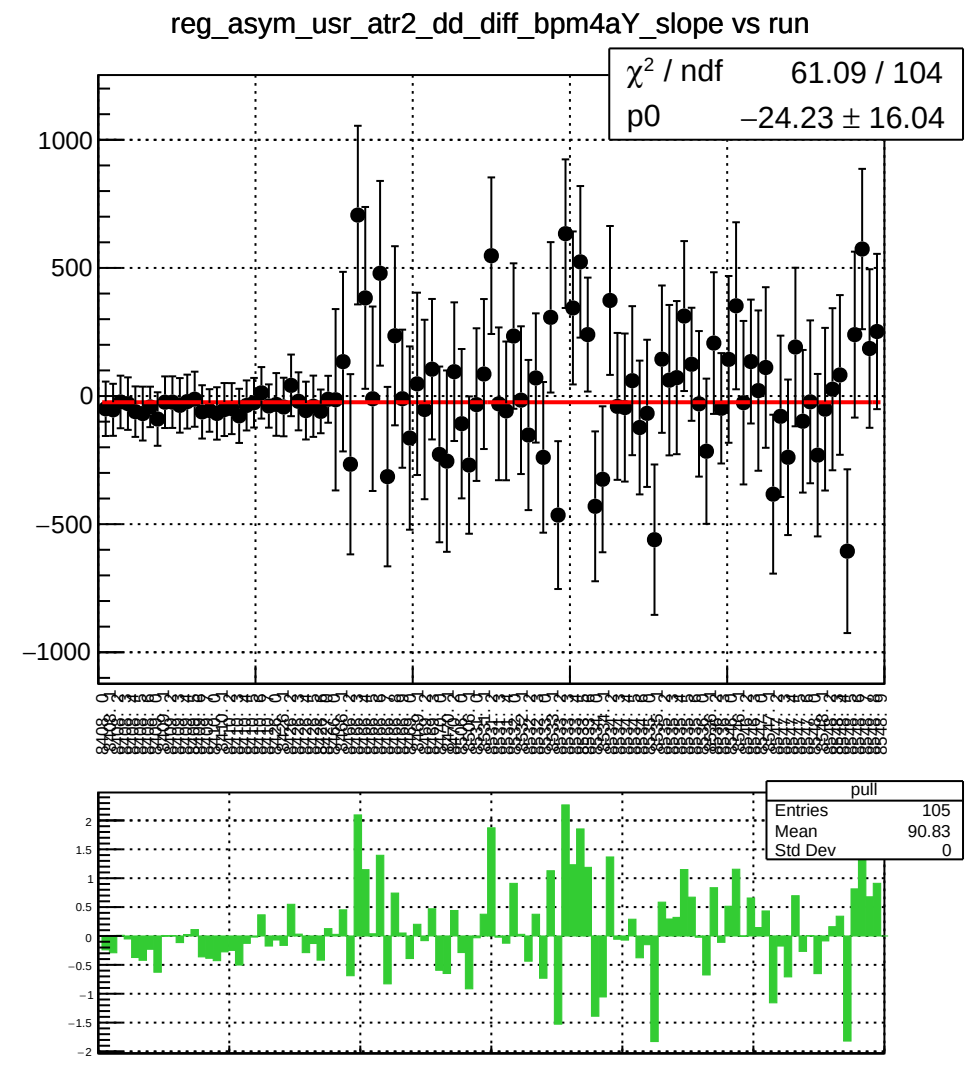

reg_asym_usr_atr2_avg_diff_bpm4eX_slope vs run
χ² / ndf 194.9 / 104
p0 263.8 ± 13.07
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 105
Mean 119.7
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 105
Mean −0.3678
Std Dev 1.312
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

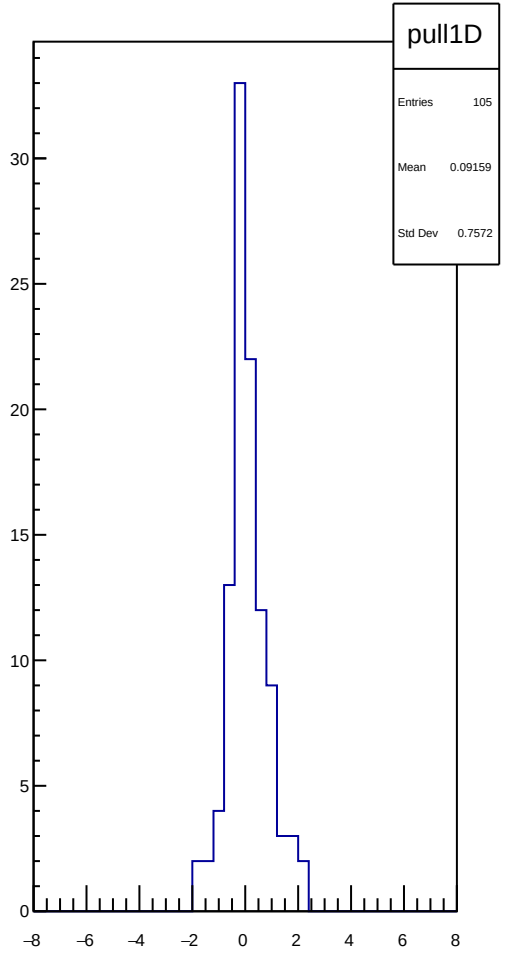

reg_asym_usr_atr2_avg_diff_bpm4eY_slope vs run
χ² / ndf 58.43 / 104
p0 10.01 ± 22.33
1000
500
0
−500
−1000
pull
Entries 105
Mean 282.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 105
Mean −0.004969
Std Dev 0.746
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

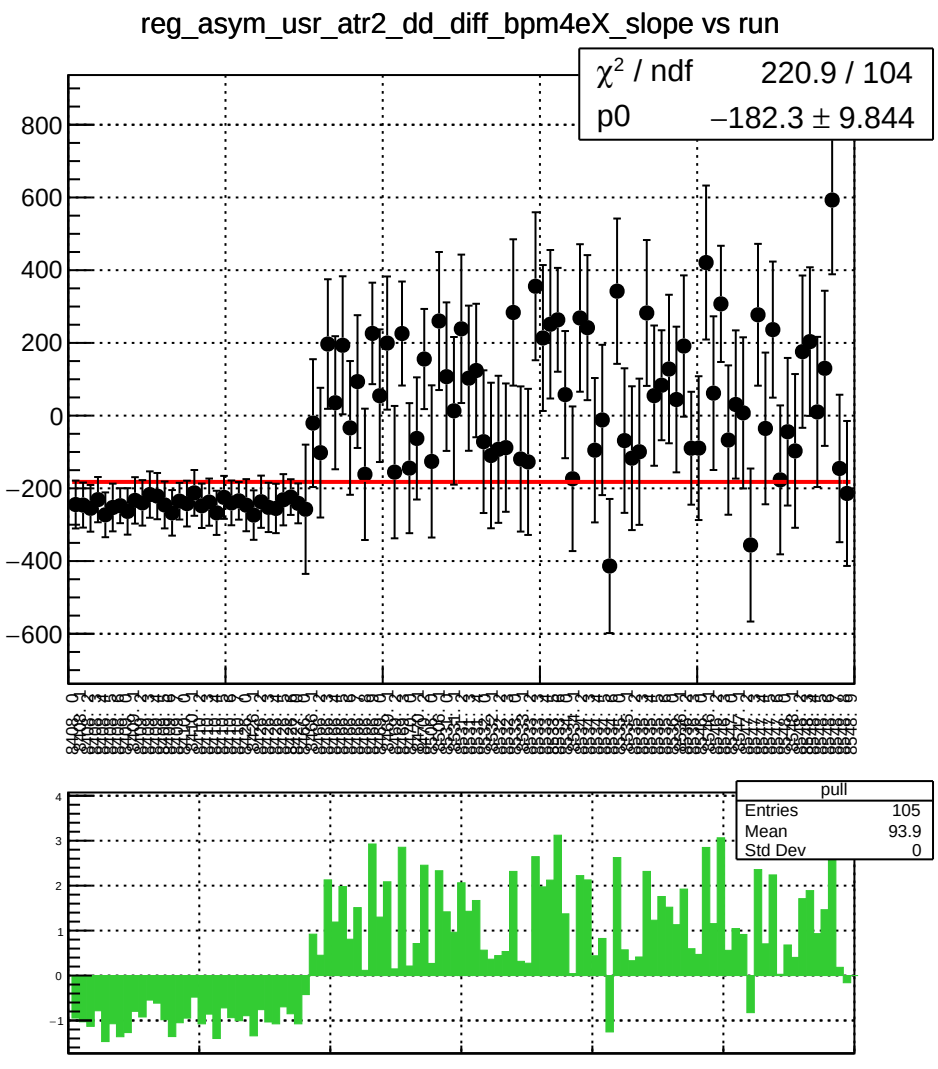

reg_asym_usr_atr2_avg_diff_bpm12X_slope vs run
χ² / ndf 3290 / 104
p0 −117.8 ± 1.359
50
0
−50
−100
−150
−200
pull
Entries 105
Mean 123.5
Std Dev 0
8
6
4
2
0
−2
−4
−6
−8

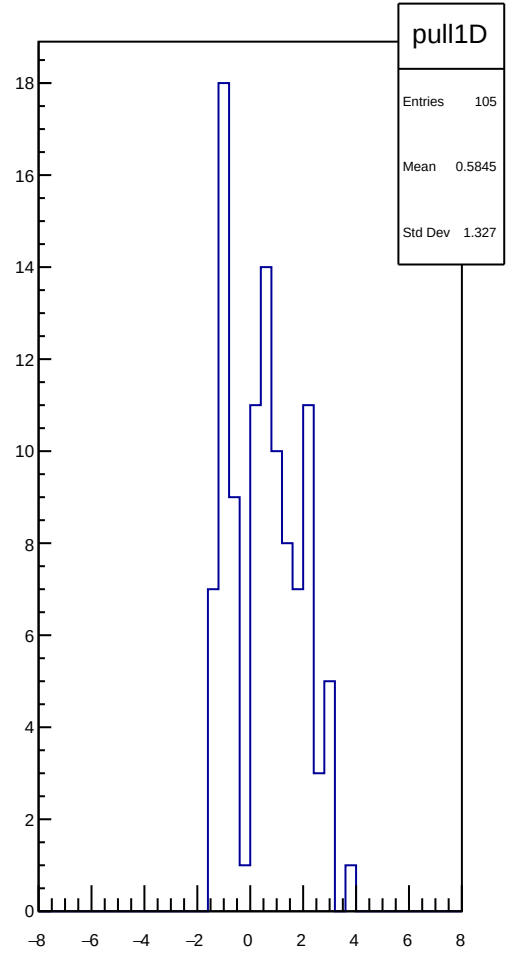

pull1D
Entries 105
Mean 1.661
Std Dev 5.201
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

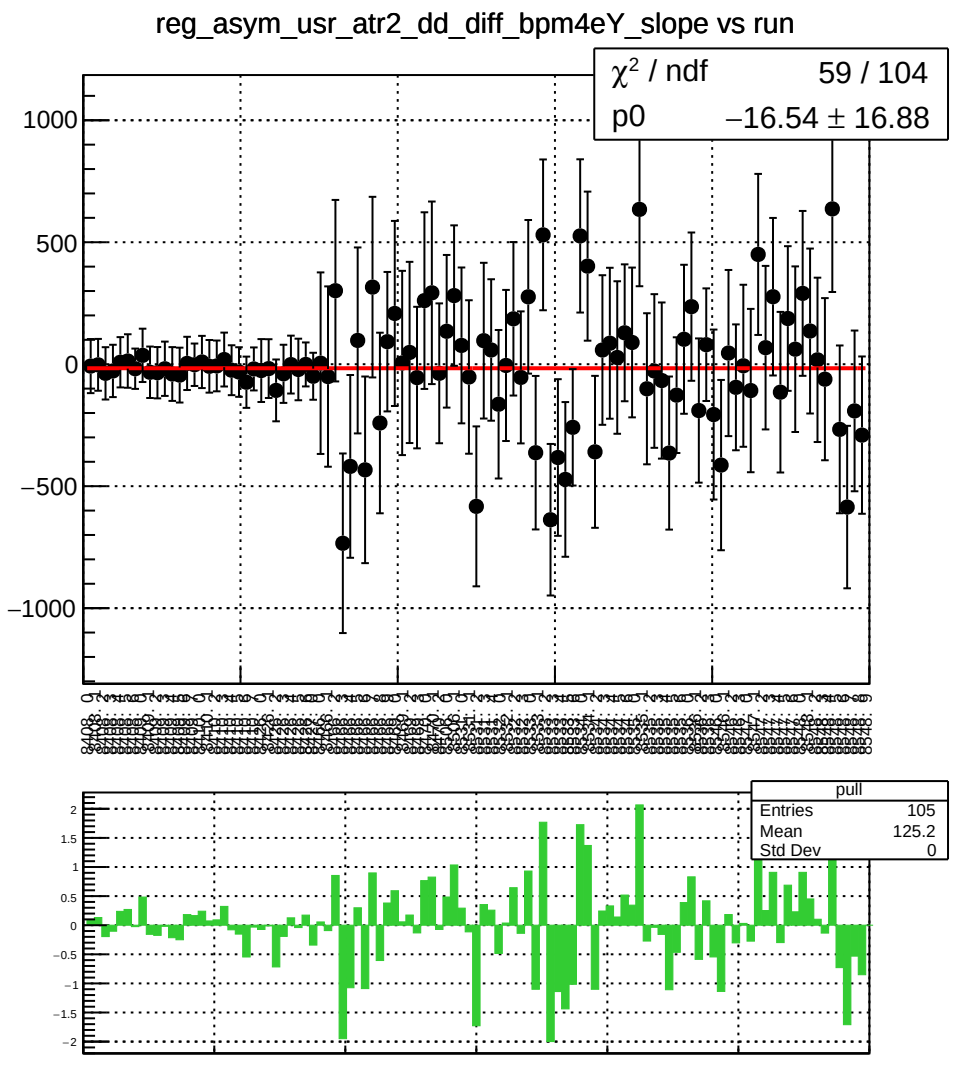

reg_asym_usr_atr2_dd_diff_bpm1X_slope vs run
χ² / ndf 258.8 / 104
p0 194.6 ± 8.807
pull
Entries 105
Mean 91.42
Std Dev 0
pull1D
Entries 105
Mean −0.6594
Std Dev 1.425

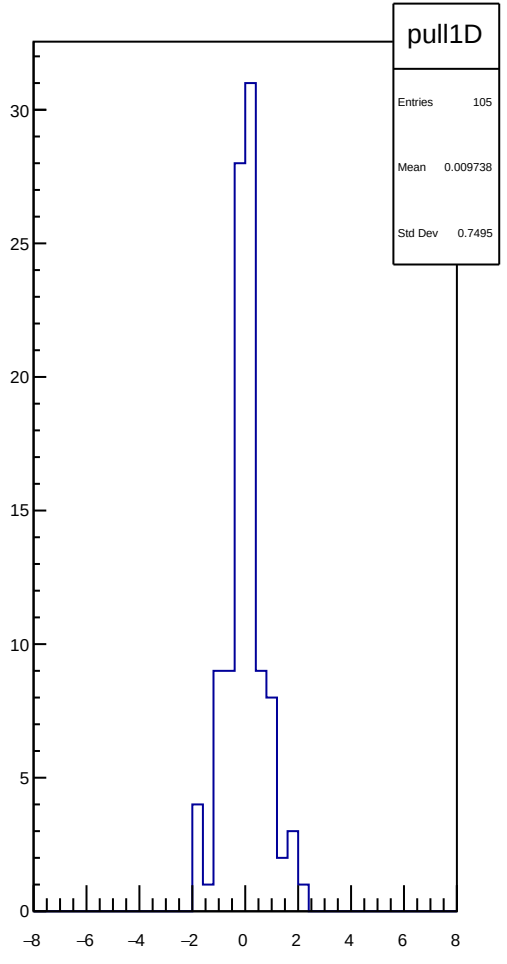

reg_asym_usr_atr2_dd_diff_bpm4aY_slope vs run
χ² / ndf 61.09 / 104
p0 −24.23 ± 16.04
1000
500
0
−500
−1000
pull
Entries 105
Mean 90.83
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

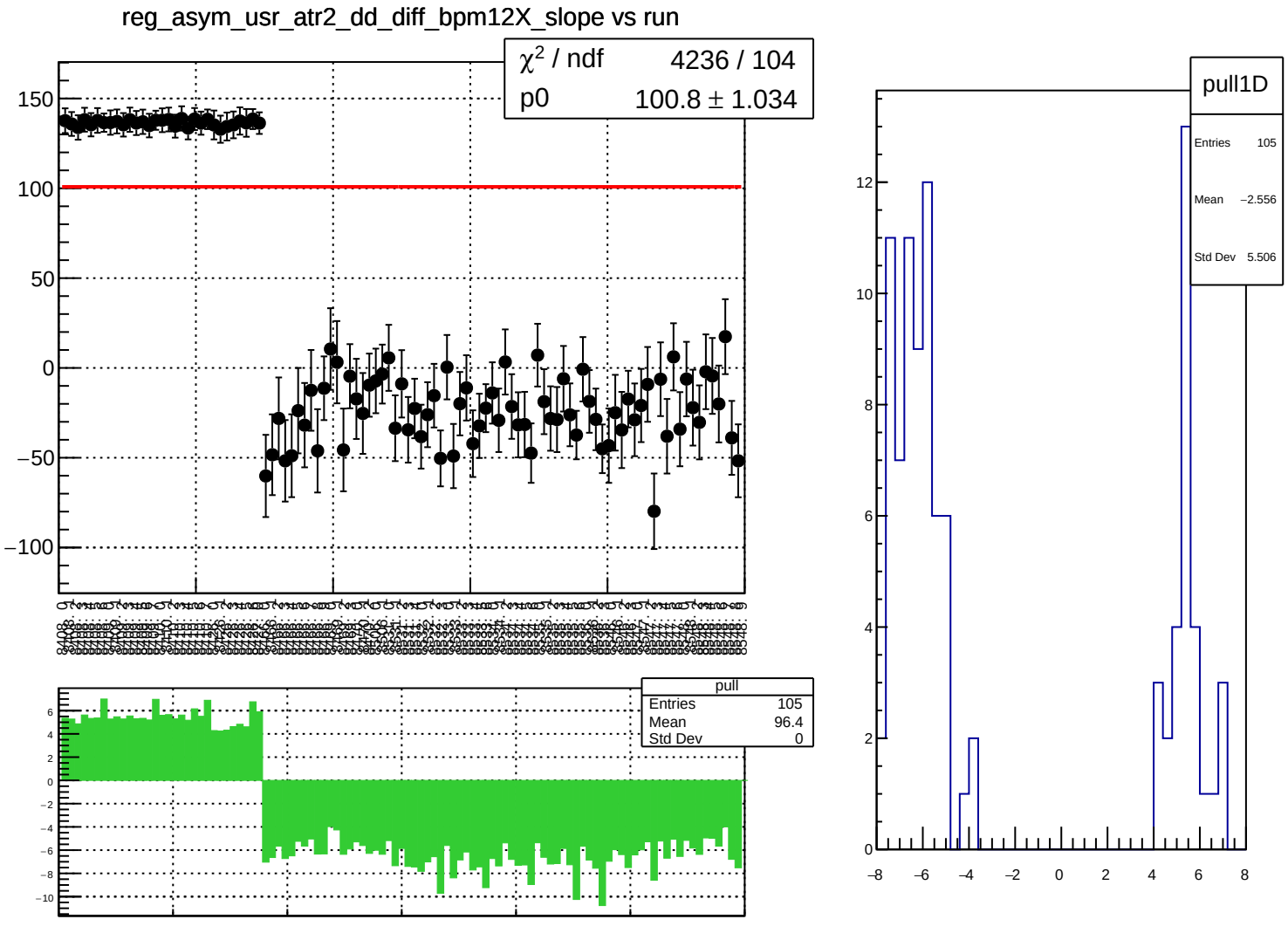

pull1D
Entries 105
Mean 0.09159
Std Dev 0.7572
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

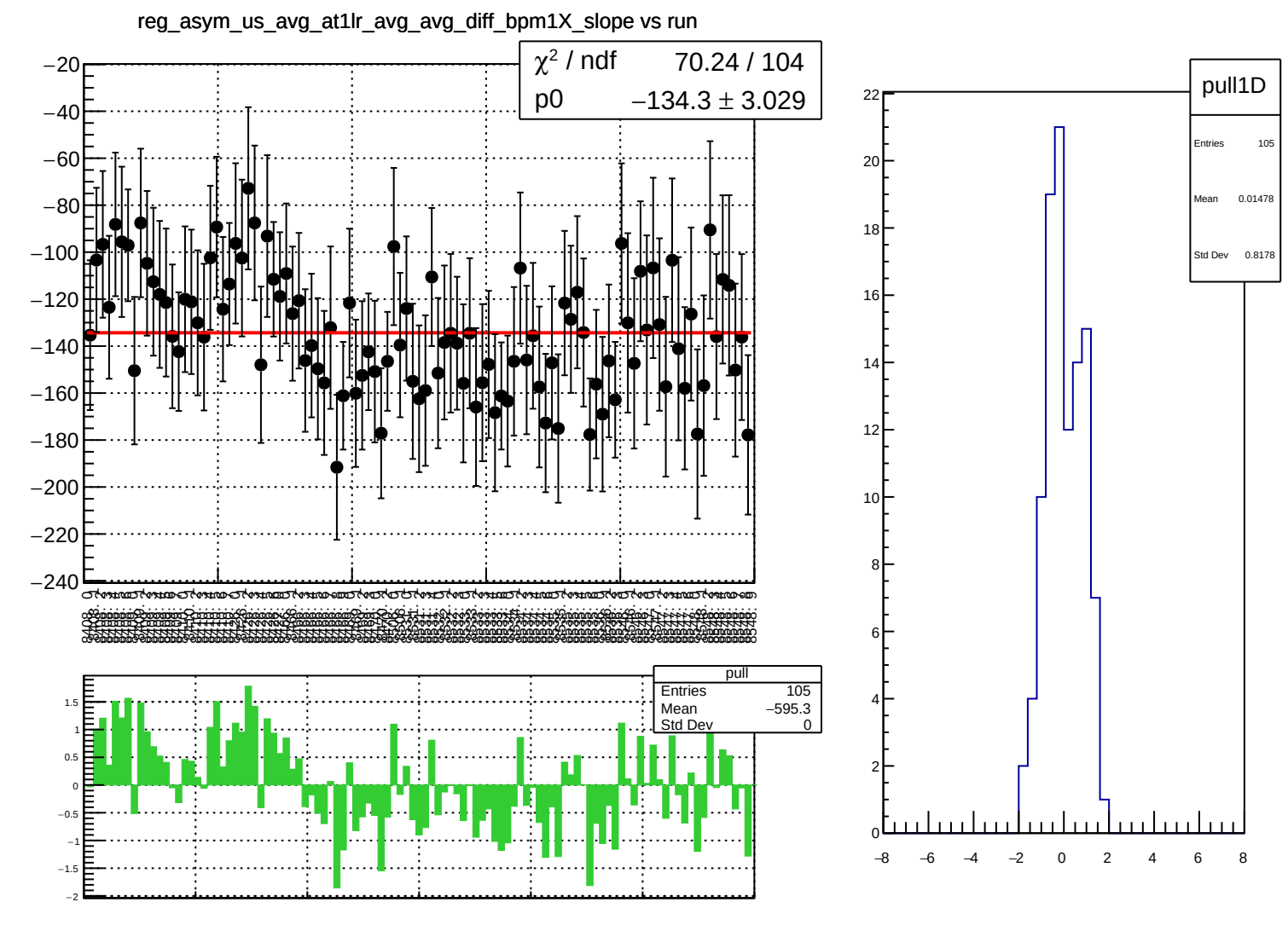

reg_asym_usr_atr2_dd_diff_bpm4eX_slope vs run
χ² / ndf 220.9 / 104
p0 −182.3 ± 9.844
800
600
400
200
0
−200
−400
−600
pull
Entries 105
Mean 93.9
Std Dev 0
4
3
2
1
0
−1

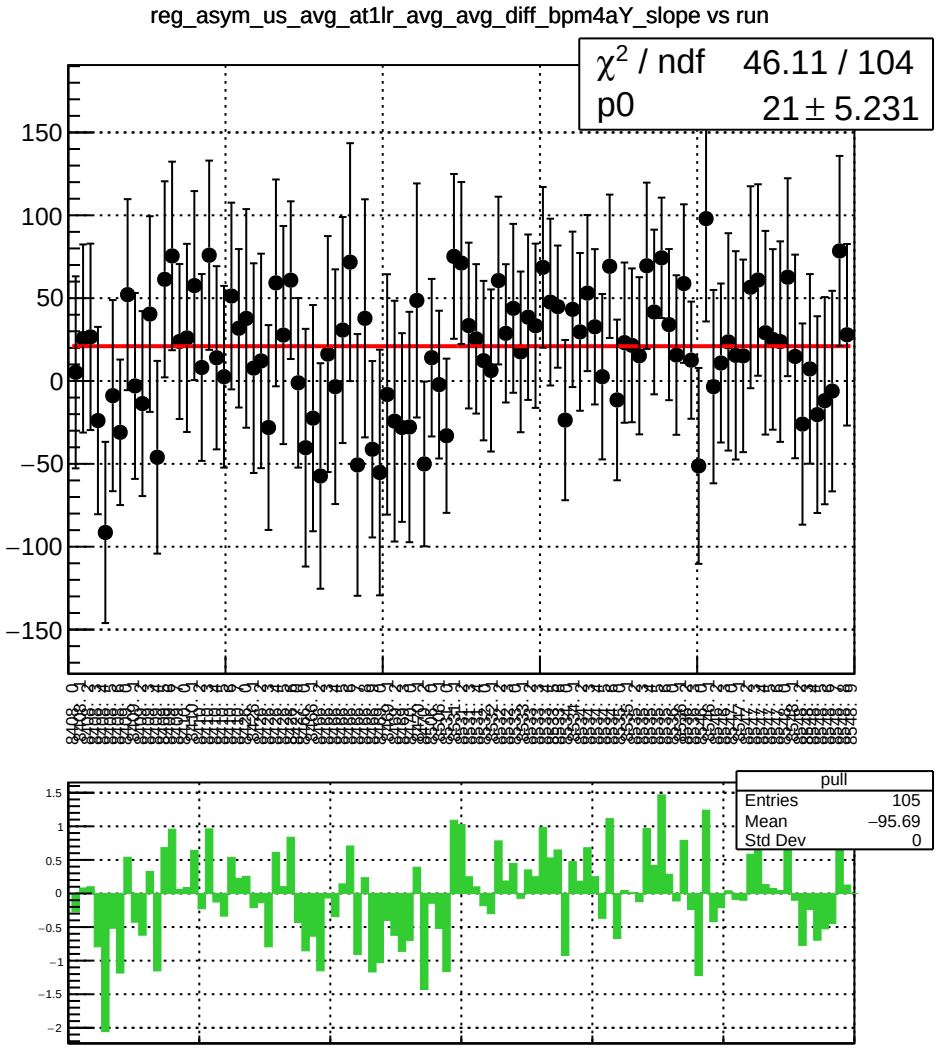

pull1D
Entries 105
Mean 0.5845
Std Dev 1.327
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

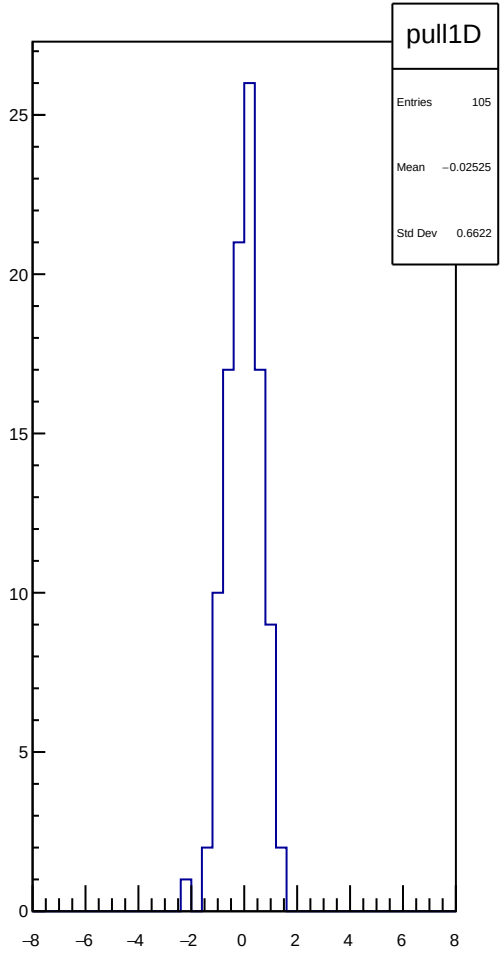

reg_asym_usr_atr2_dd_diff_bpm4eY_slope vs run
χ² / ndf 59 / 104
p0 −16.54 ± 16.88
1000
500
0
−500
−1000
pull
Entries 105
Mean 125.2
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

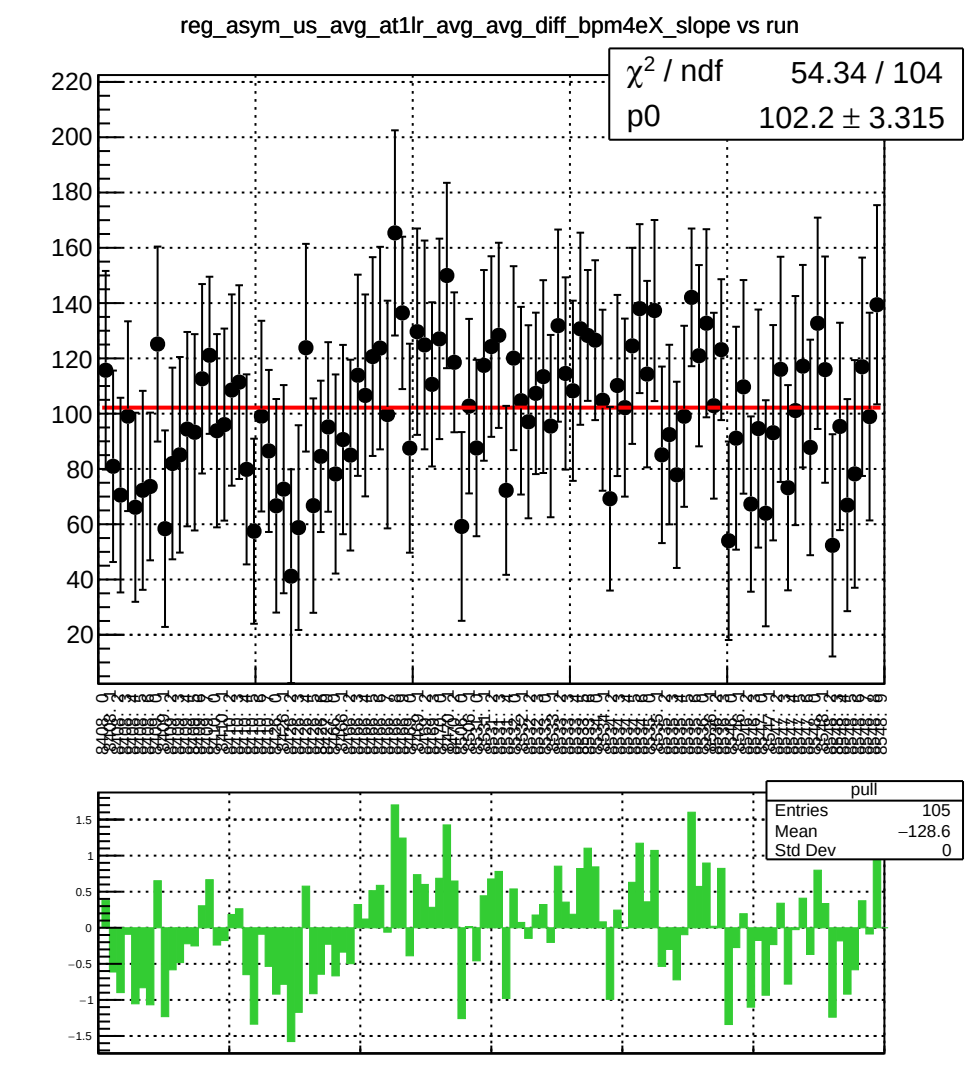

pull1D
Entries 105
Mean 0.009738
Std Dev 0.7495
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

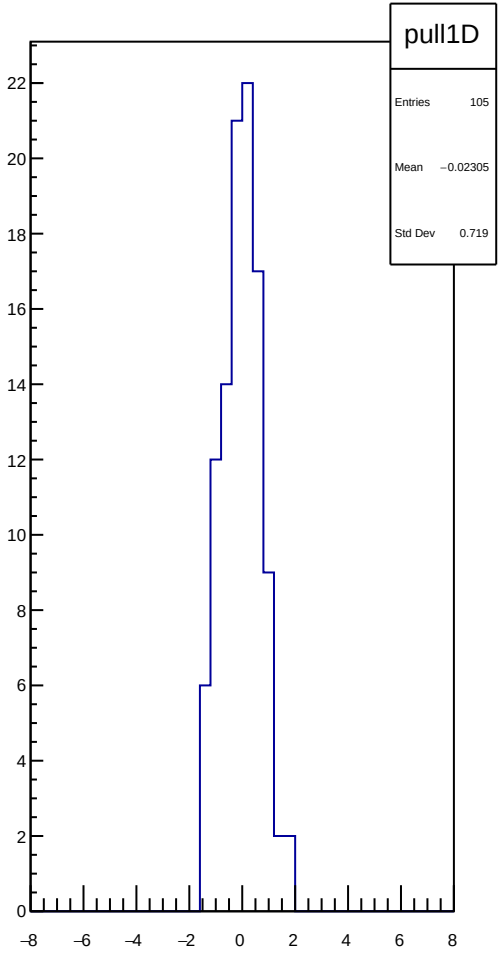

reg_asym_usr_atr2_dd_diff_bpm12X_slope vs run
χ² / ndf 4236 / 104
p0 100.8 ± 1.034
150
100
50
0
−50
−100
pull
Entries 105
Mean 96.4
Std Dev 0
6
4
2
0
−2
−4
−6
−8
−10
pull1D
Entries 105
Mean −2.556
Std Dev 5.506
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

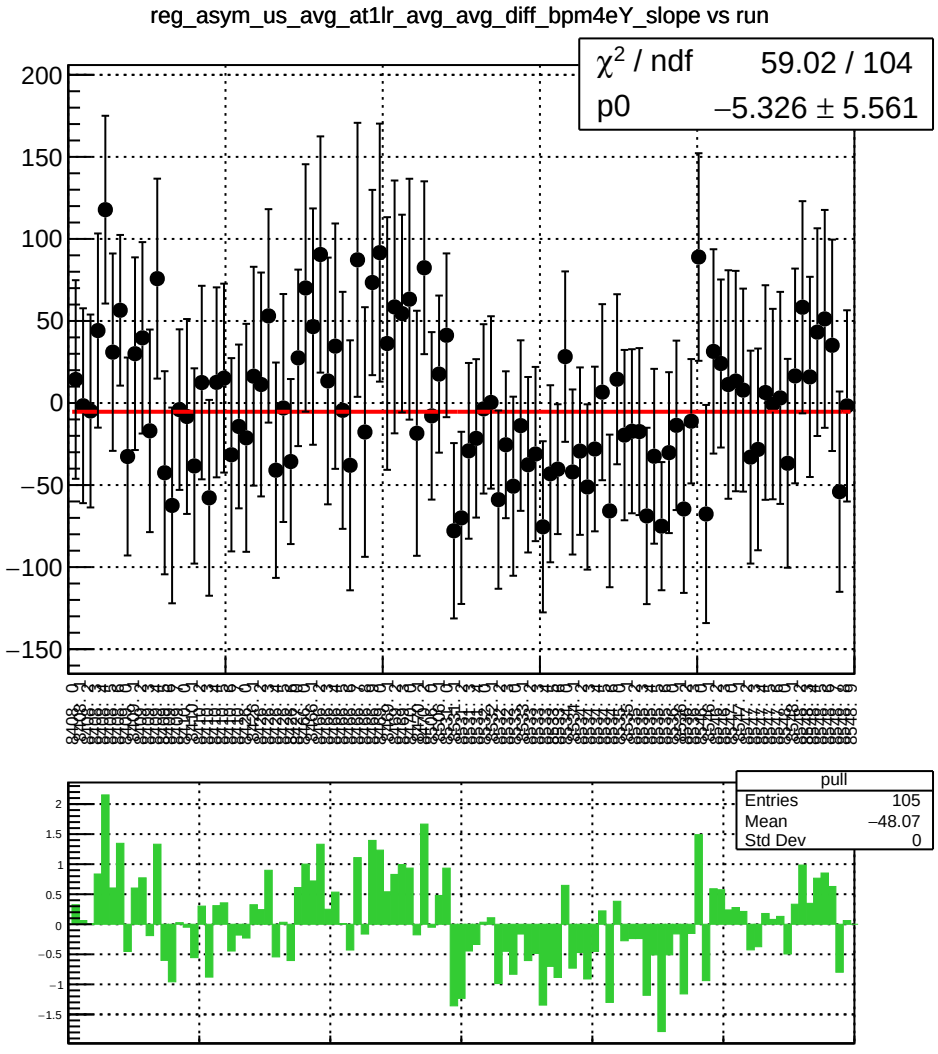

reg_asym_us_avg_at1lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 70.24 / 104
p0 −134.3 ± 3.029
pull
Entries 105
Mean −595.3
Std Dev 0
pull1D
Entries 105
Mean 0.01478
Std Dev 0.8178

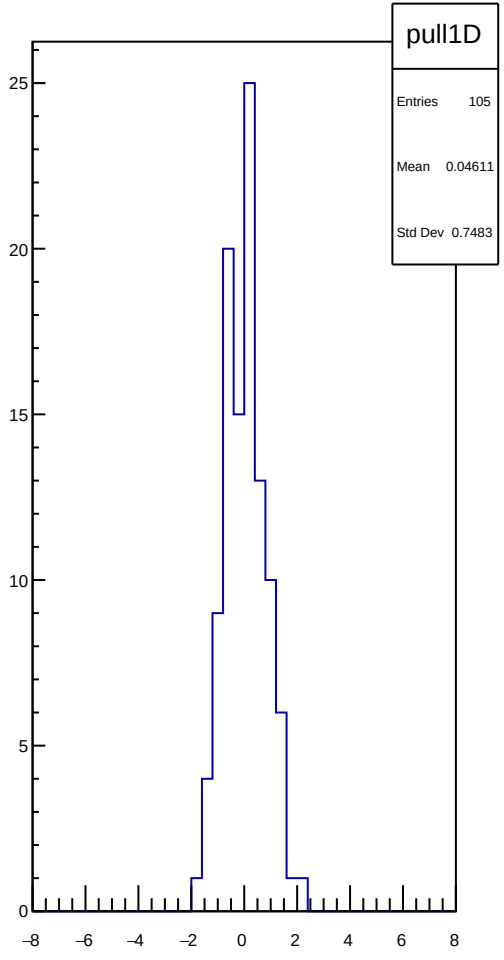

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 46.11 / 104
p0 21 ± 5.231
150
100
50
0
−50
−100
−150
pull
Entries 105
Mean −95.69
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2

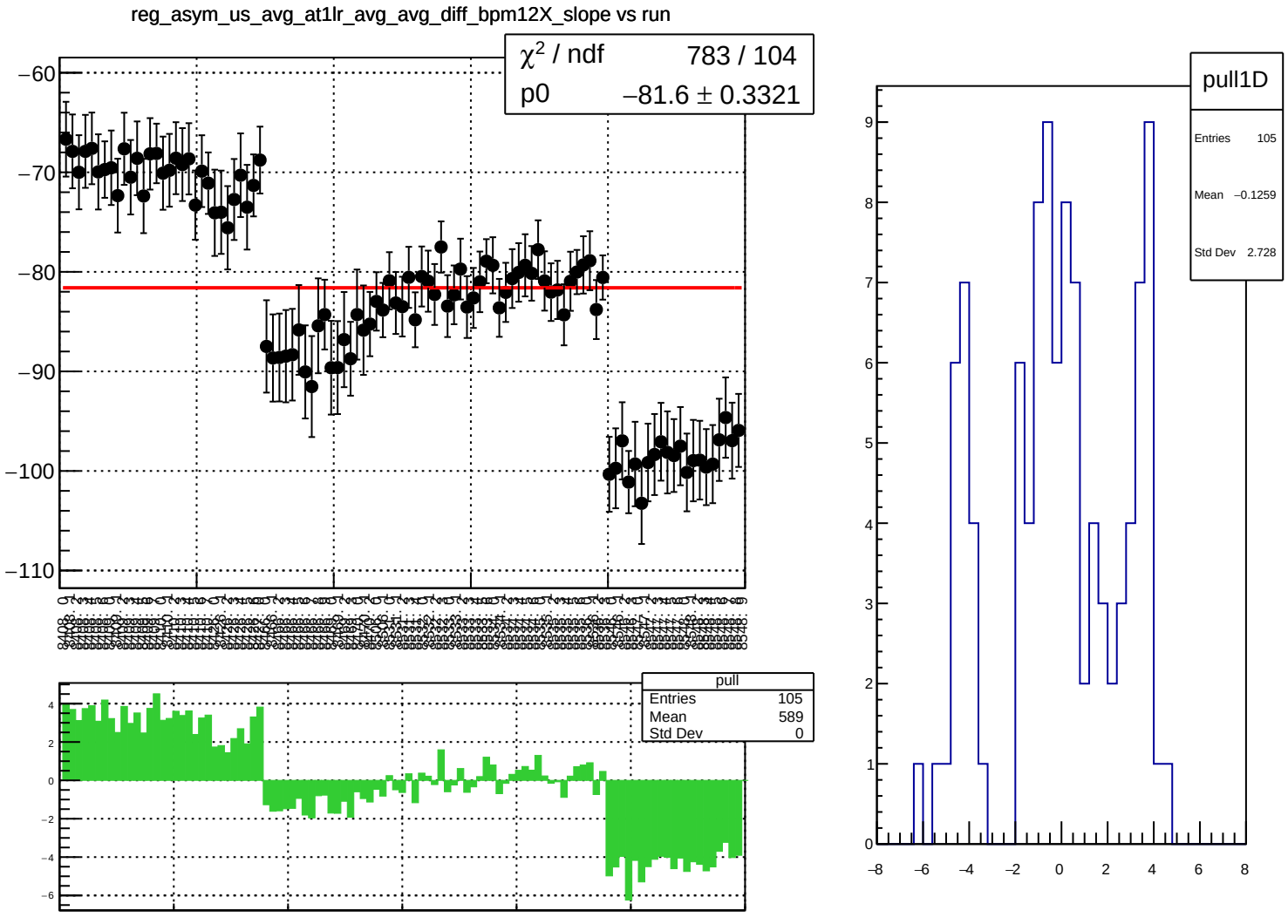

pull1D
Entries 105
Mean −0.02525
Std Dev 0.6622
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

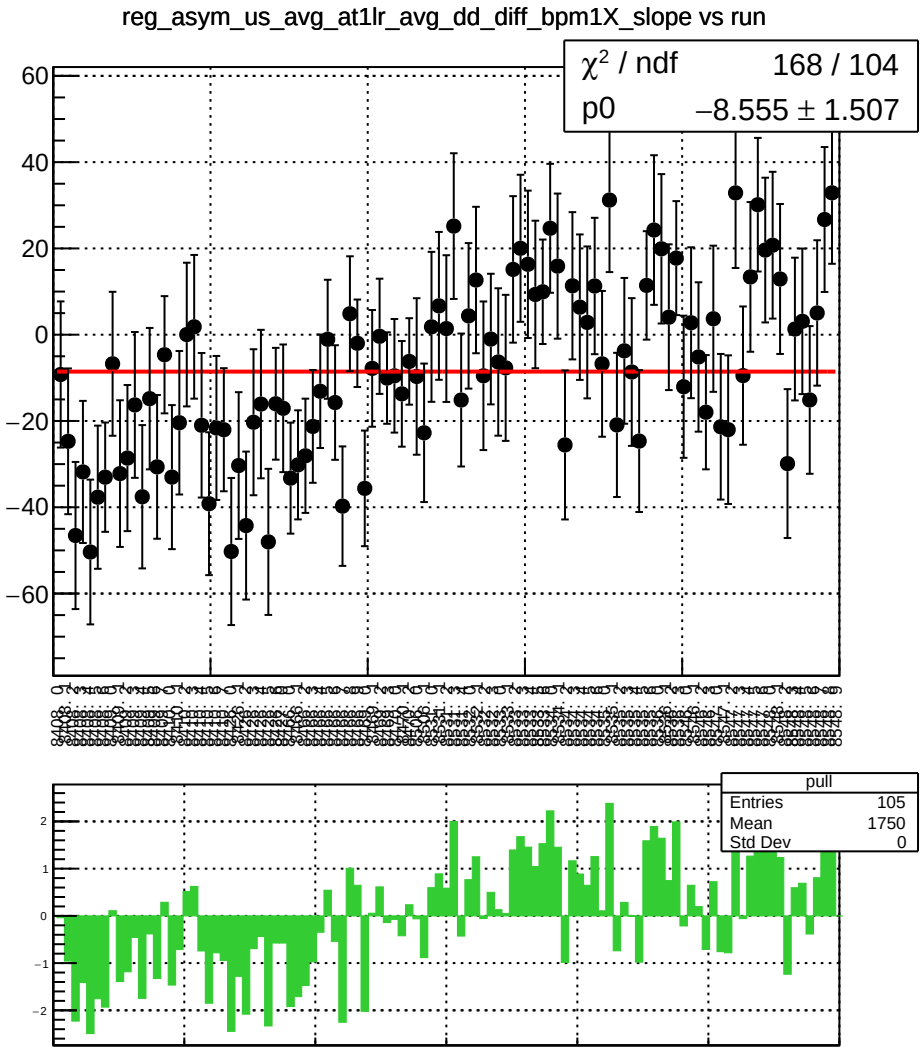

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 54.34 / 104
p0 102.2 ± 3.315
pull
Entries 105
Mean −128.6
Std Dev 0

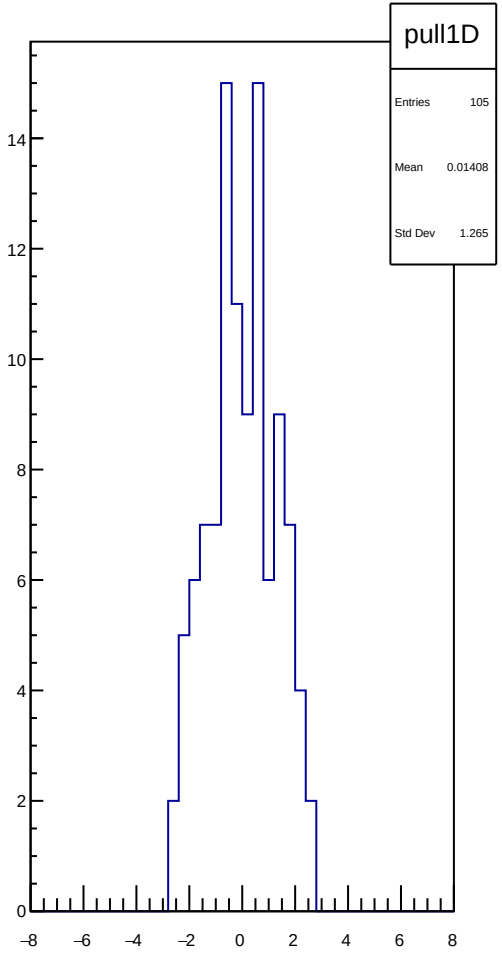

pull1D
Entries 105
Mean −0.02305
Std Dev 0.719

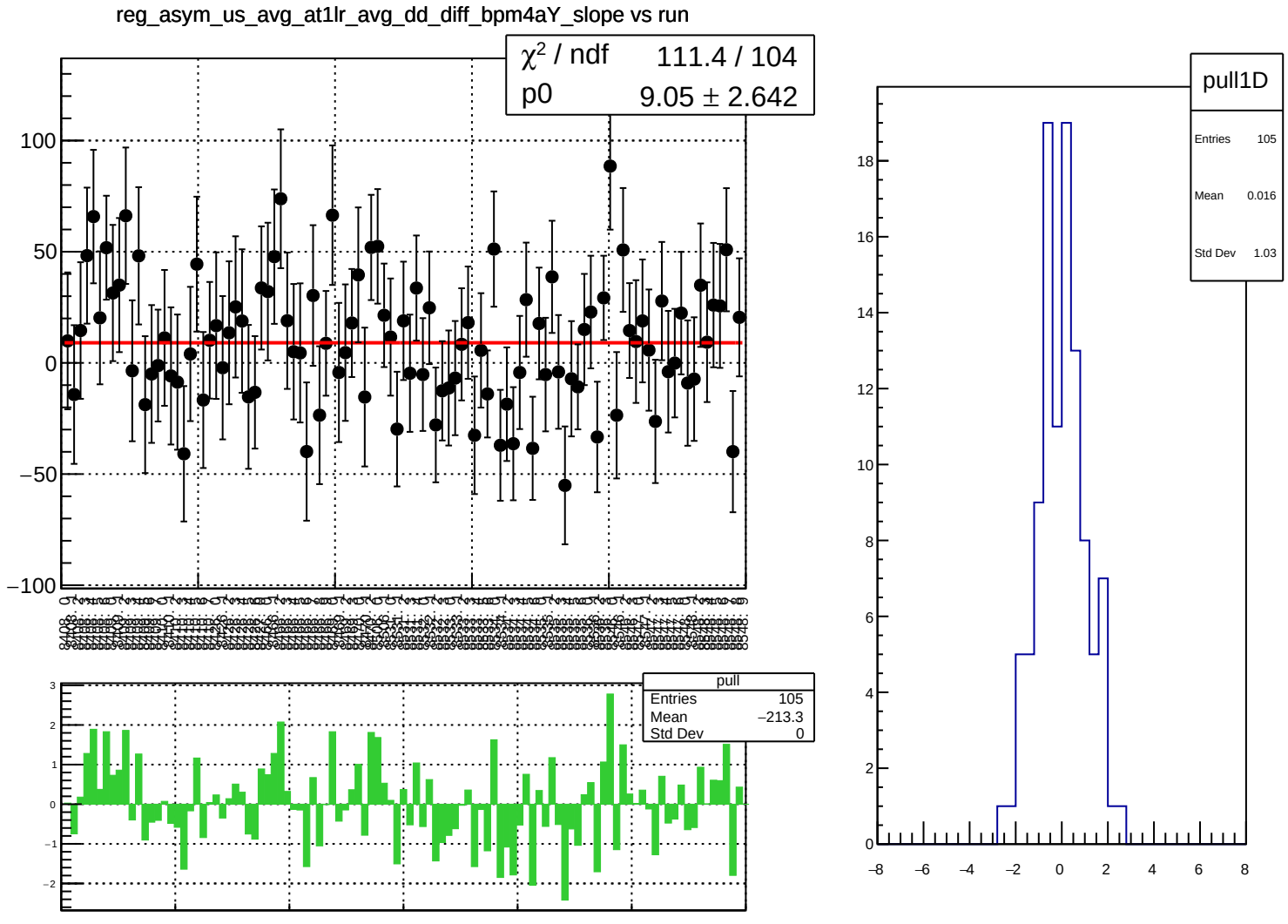

reg_asym_us_avg_at1lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 59.02 / 104
p0 −5.326 ± 5.561
200
150
100
50
0
−50
−100
−150
pull
Entries 105
Mean −48.07
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5

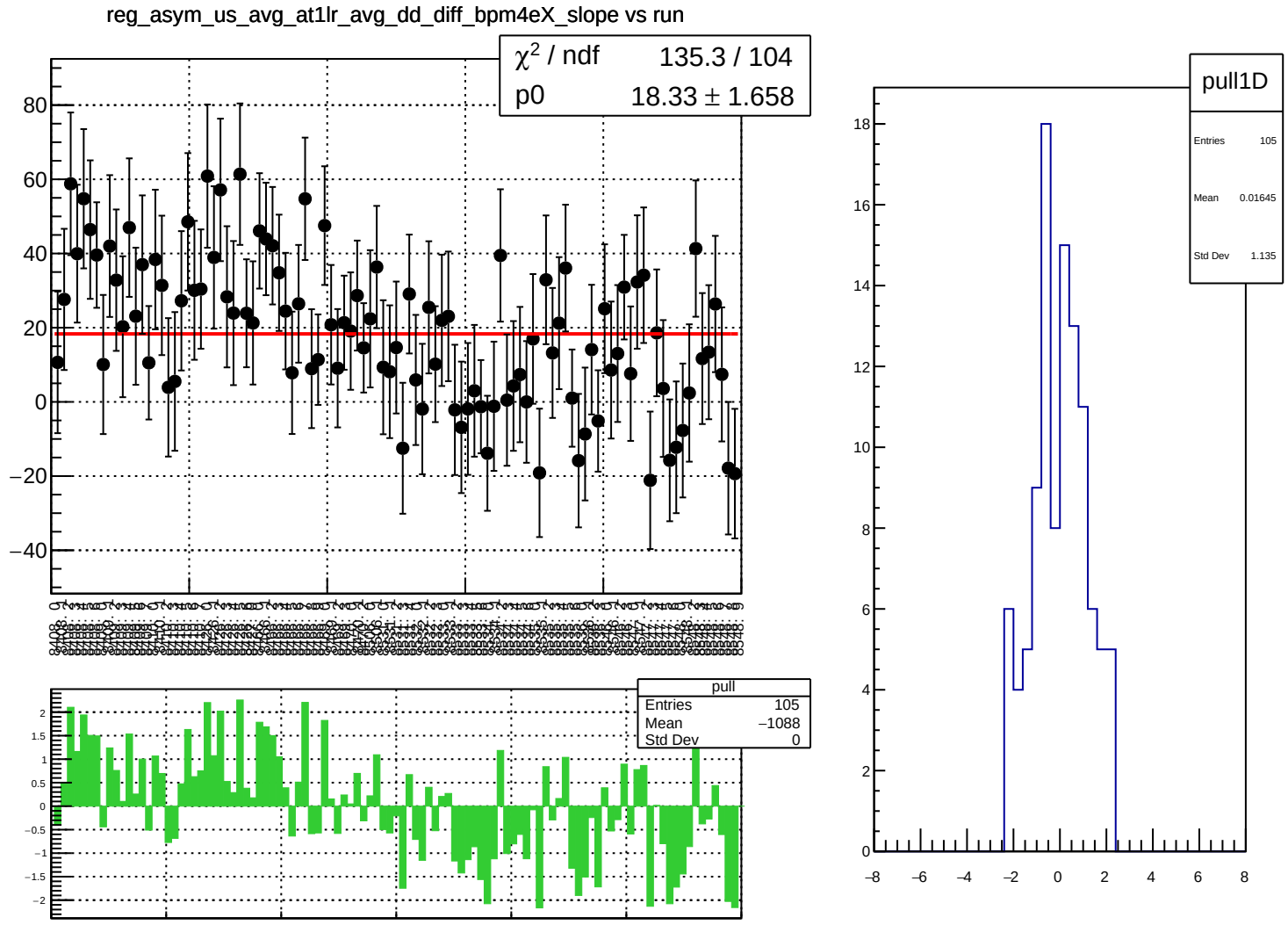

pull1D
Entries 105
Mean 0.04611
Std Dev 0.7483
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

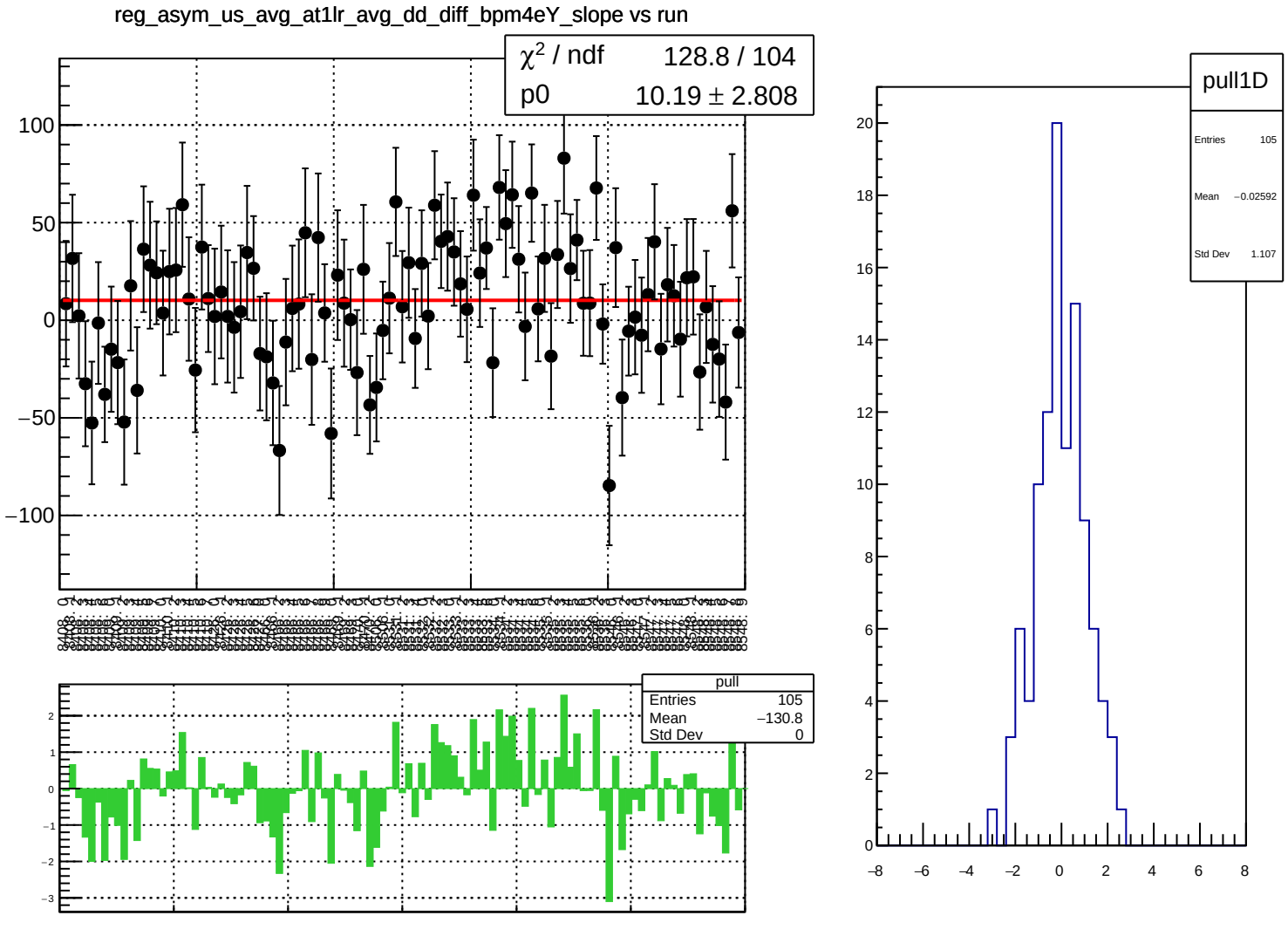

reg_asym_us_avg_at1lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 783 / 104
p0 −81.6 ± 0.3321
−60
−70
−80
−90
−100
−110
pull
Entries 105
Mean 589
Std Dev 0
4
2
0
−2
−4
−6
pull1D
Entries 105
Mean −0.1259
Std Dev 2.728
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

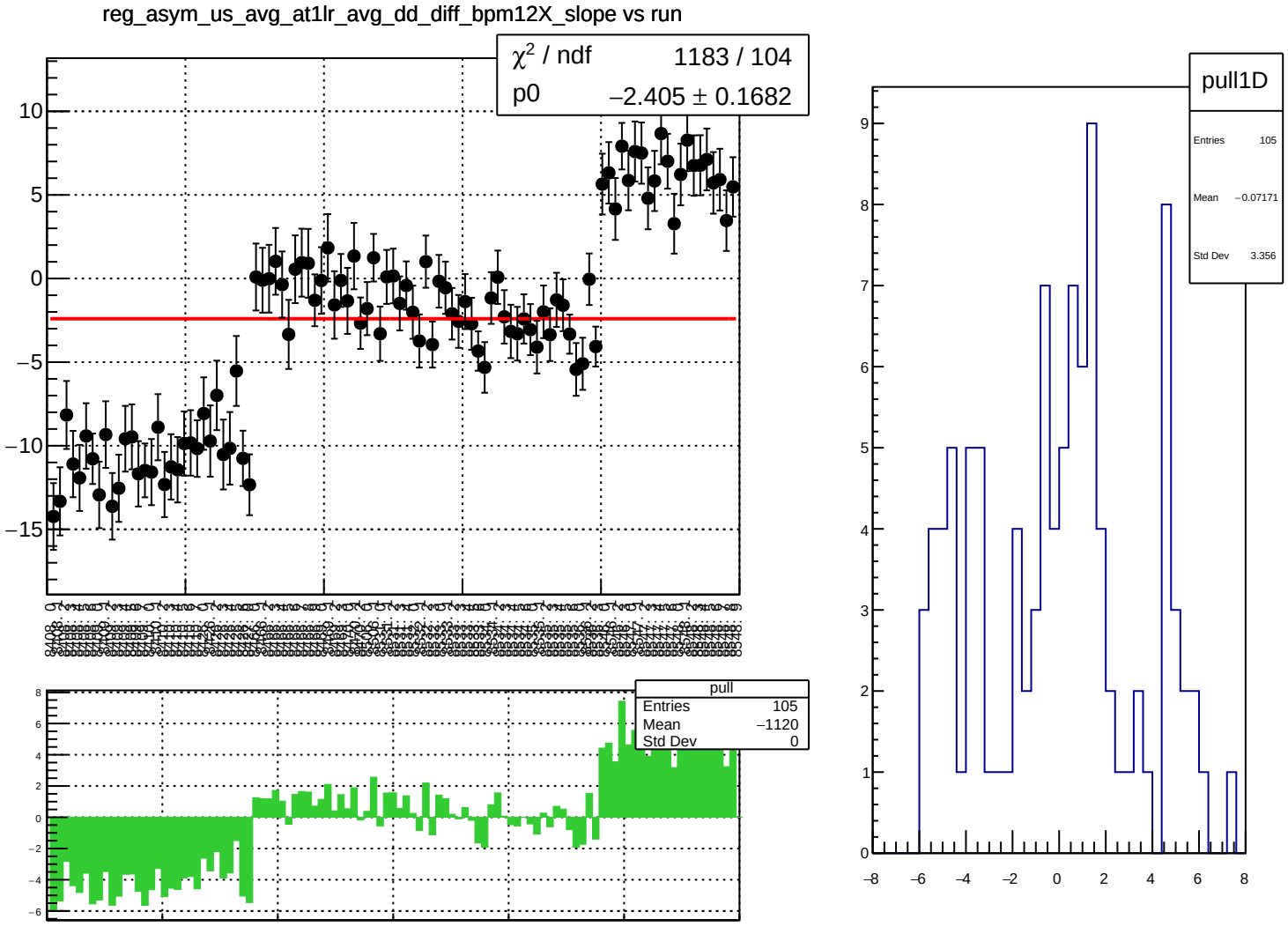

reg_asym_us_avg_at1lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 168 / 104
p0 −8.555 ± 1.507
pull
Entries 105
Mean 1750
Std Dev 0

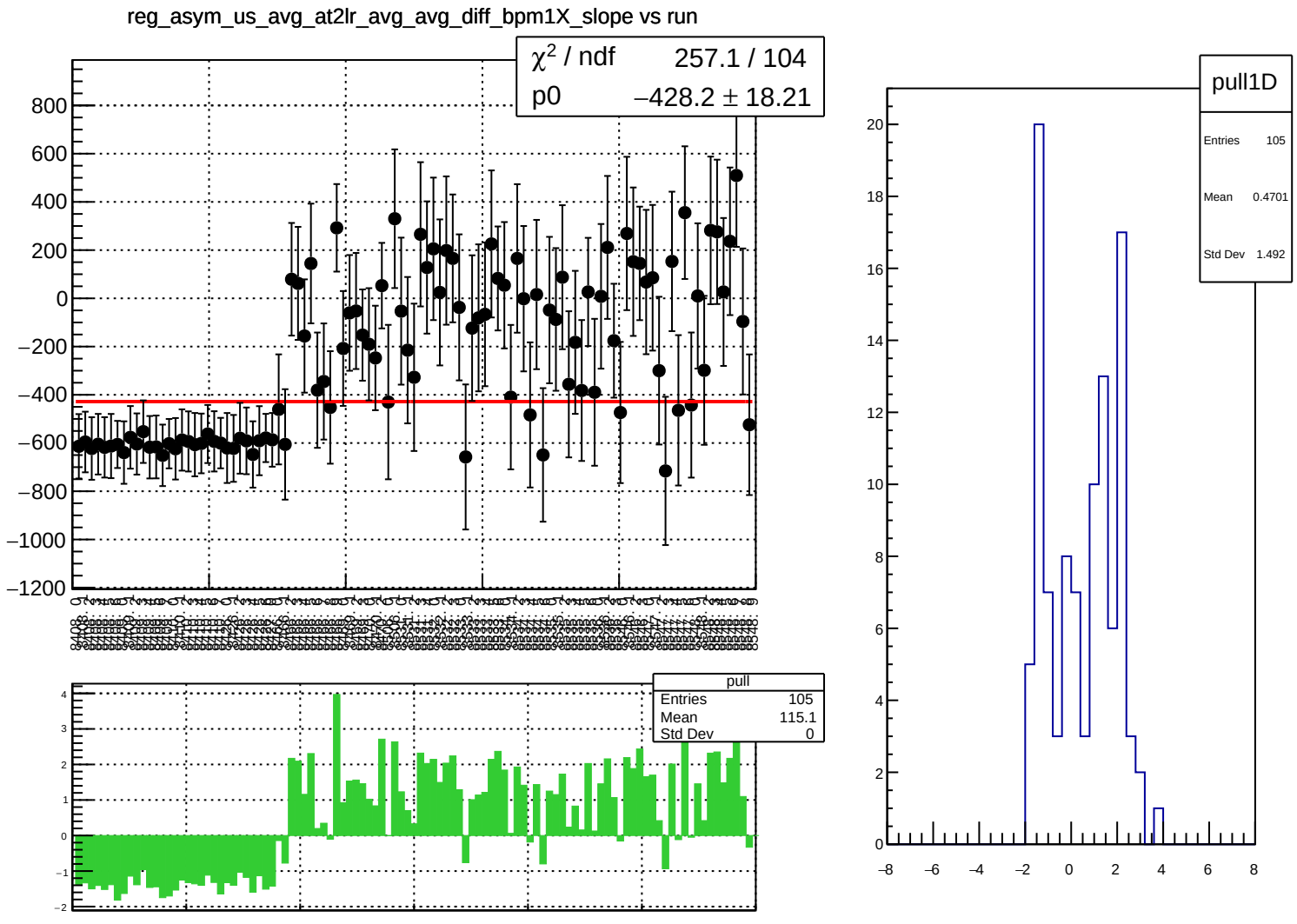

pull1D
Entries 105
Mean 0.01408
Std Dev 1.265


reg_asym_us_avg_at1lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 111.4 / 104
p0 9.05 ± 2.642
100
50
0
−50
−100
pull
Entries 105
Mean −213.3
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.016
Std Dev 1.03
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 135.3 / 104
p0 18.33 ± 1.658
pull
Entries 105
Mean −1088
Std Dev 0
pull1D
Entries 105
Mean 0.01645
Std Dev 1.135


reg_asym_us_avg_at1lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 128.8 / 104
p0 10.19 ± 2.808
100
50
0
−50
−100
pull
Entries 105
Mean −130.8
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 105
Mean −0.02592
Std Dev 1.107
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_us_avg_at1lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 1183 / 104
p0 −2.405 ± 0.1682
pull
Entries 105
Mean −1120
Std Dev 0
pull1D
Entries 105
Mean −0.07171
Std Dev 3.356


reg_asym_us_avg_at2lr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 257.1 / 104
p0 −428.2 ± 18.21
800
600
400
200
0
−200
−400
−600
−800
−1000
−1200
pull
Entries 105
Mean 115.1
Std Dev 0
4
3
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.4701
Std Dev 1.492
20
18
16
14
12
10
8
6
4
2
0
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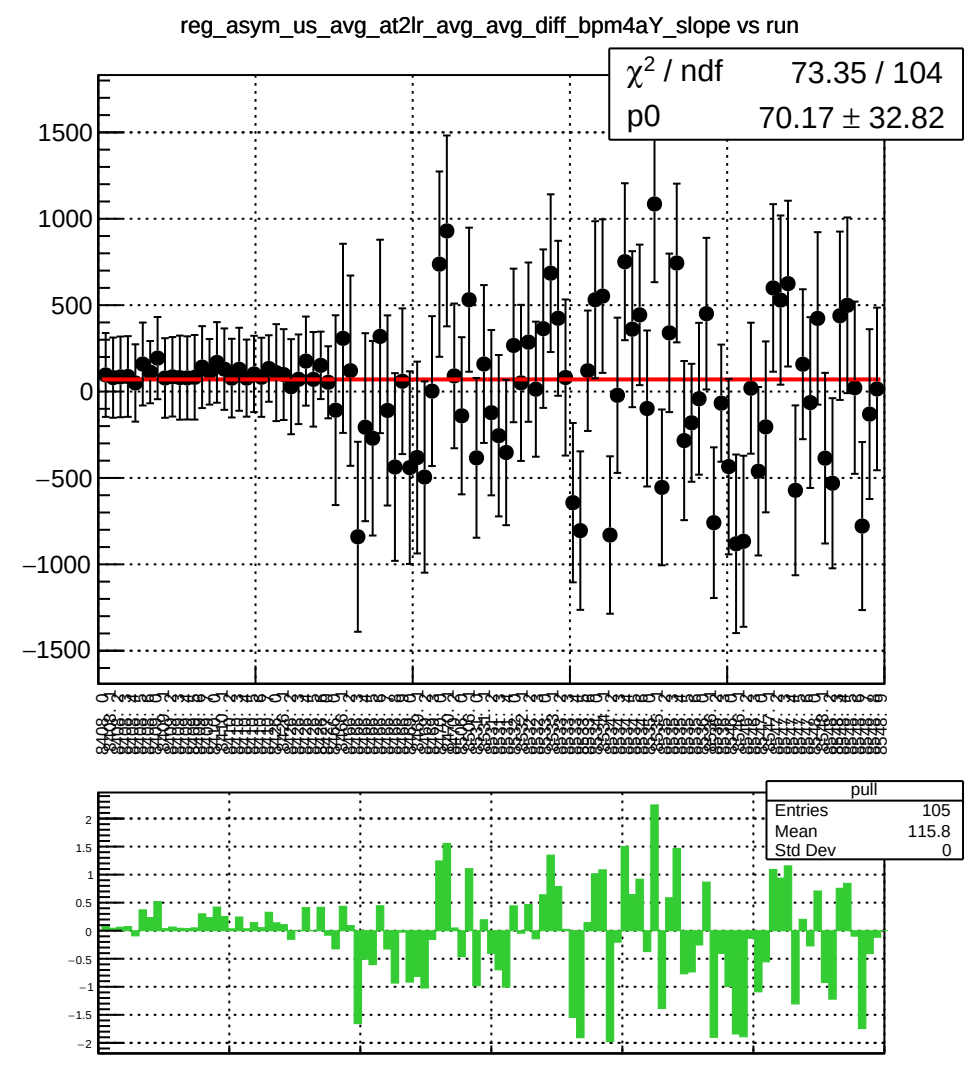
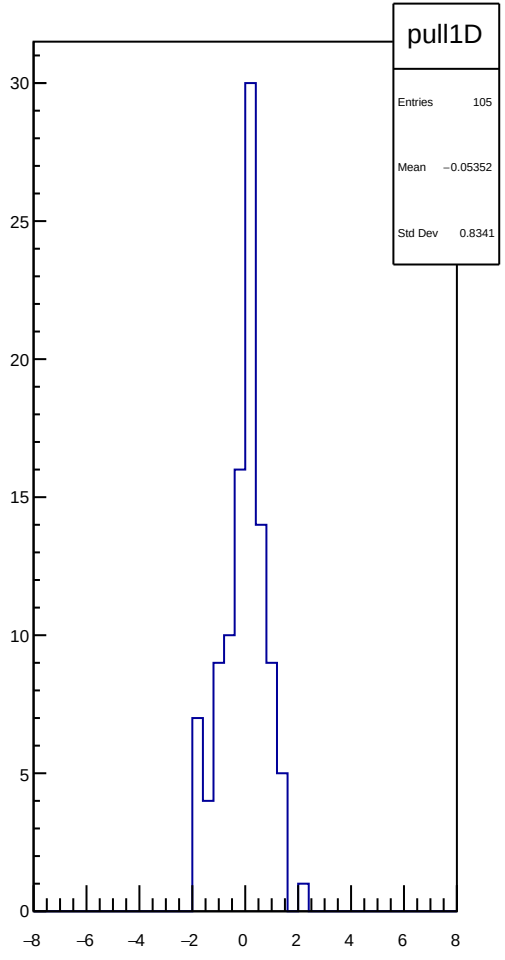
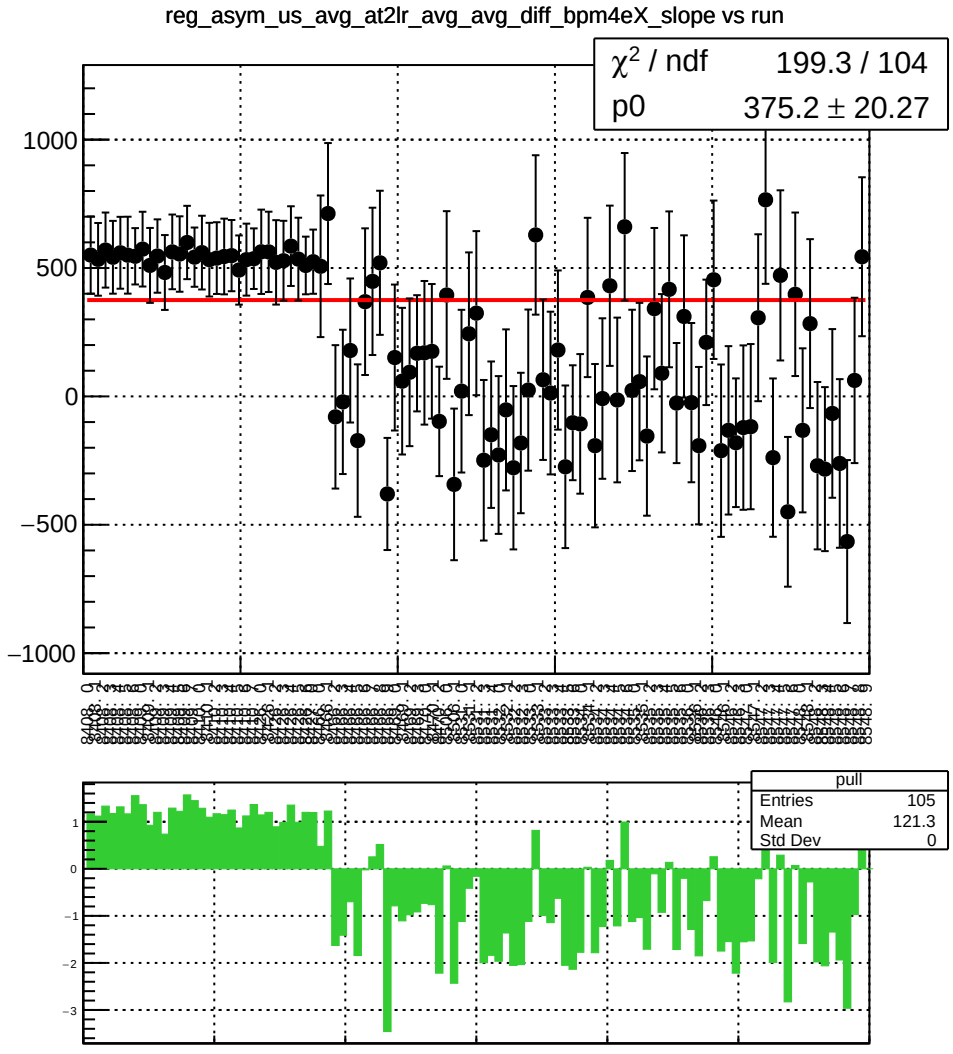
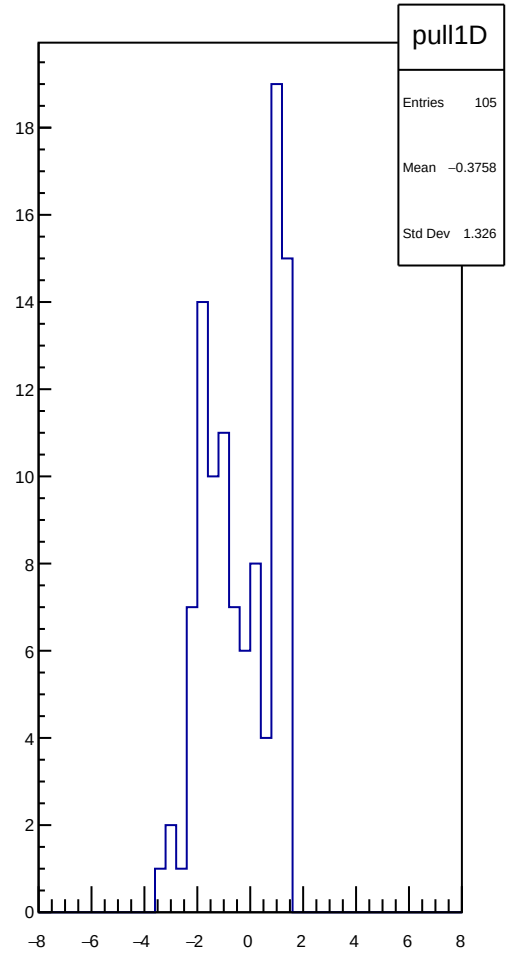
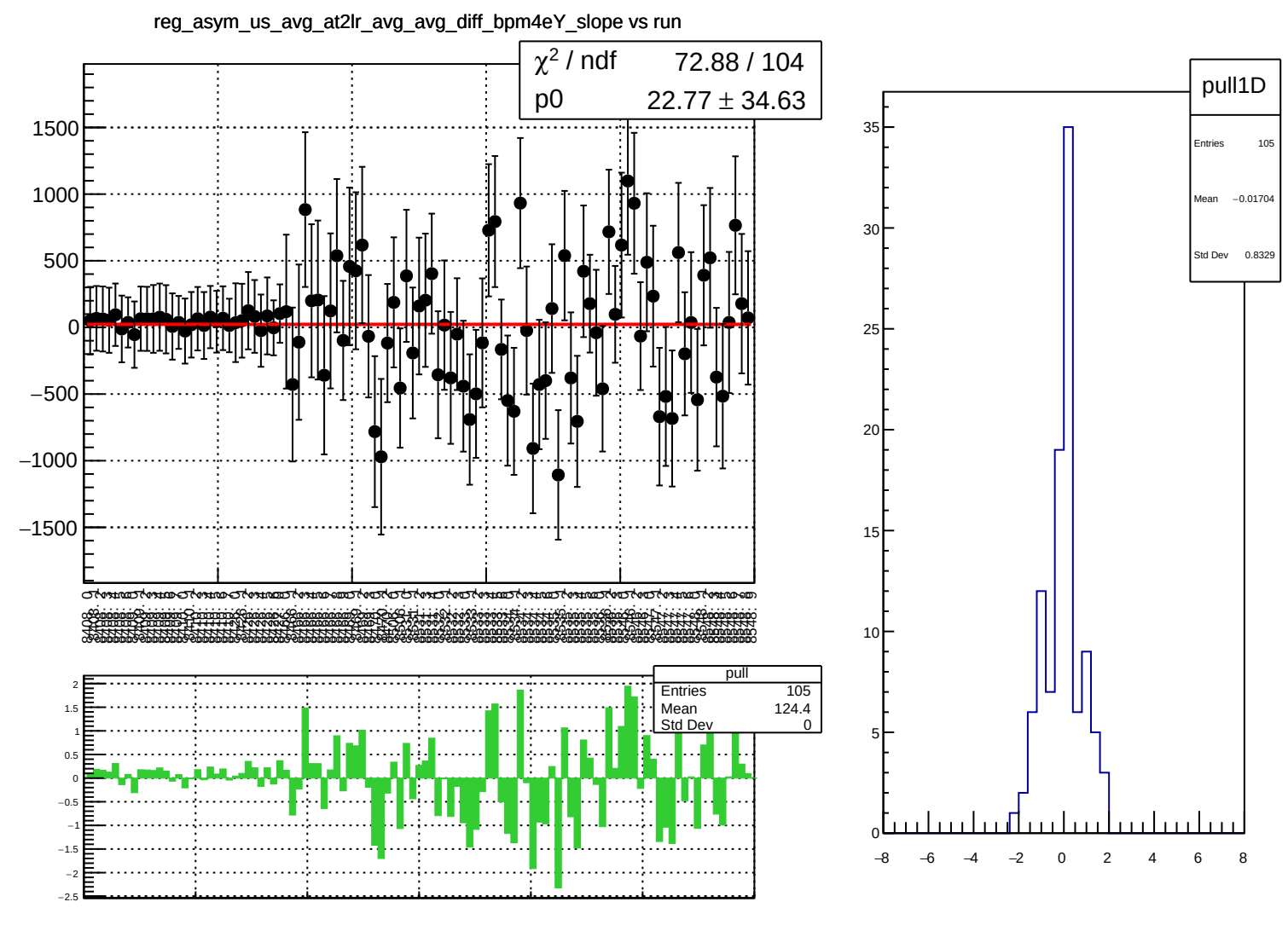
−6
−4
−2
0
2
4
6
8

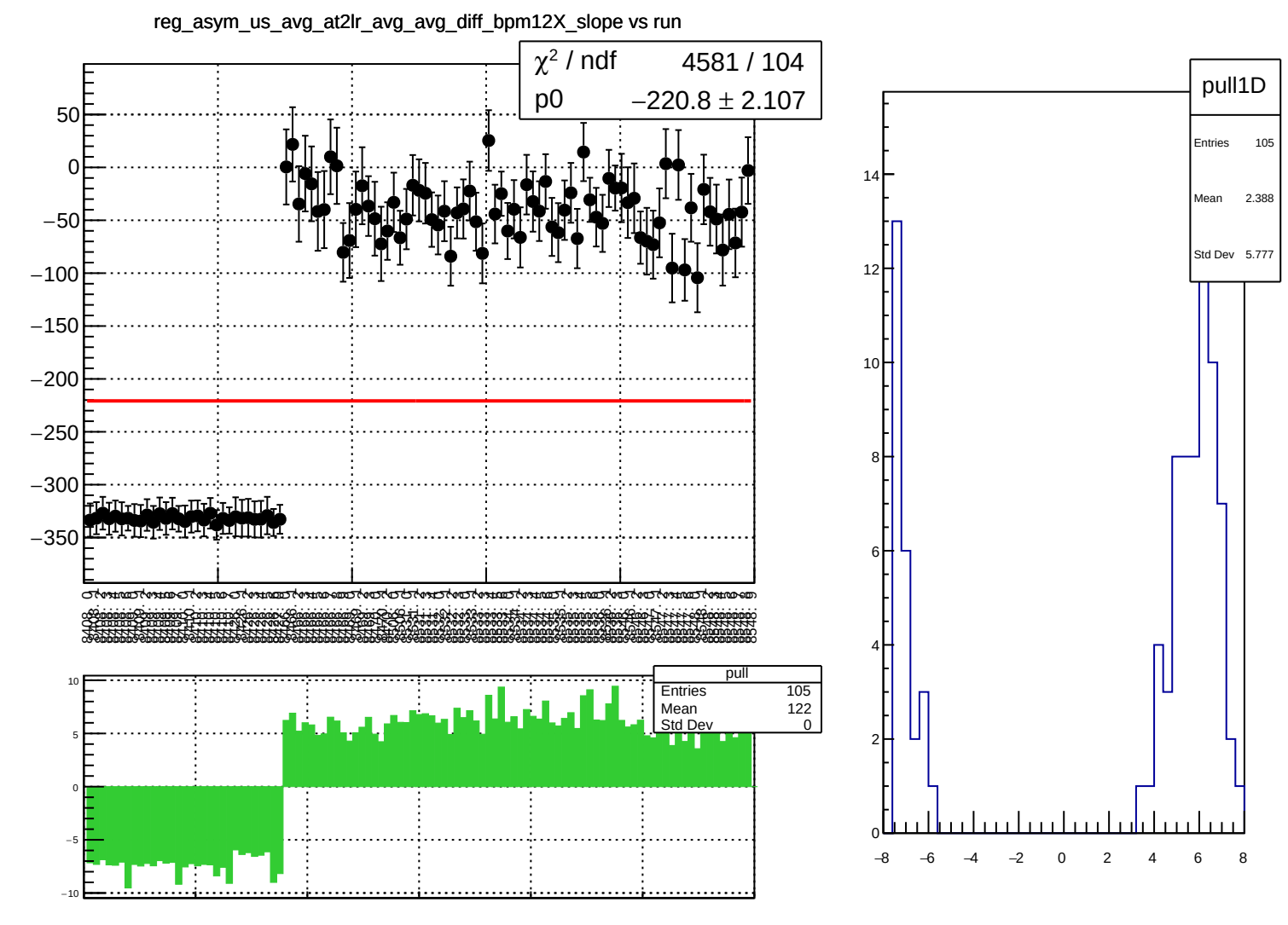

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 73.35 / 104
p0 70.17 ± 32.82
1500
1000
500
0
−500
−1000
−1500
pull
Entries 105
Mean 115.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

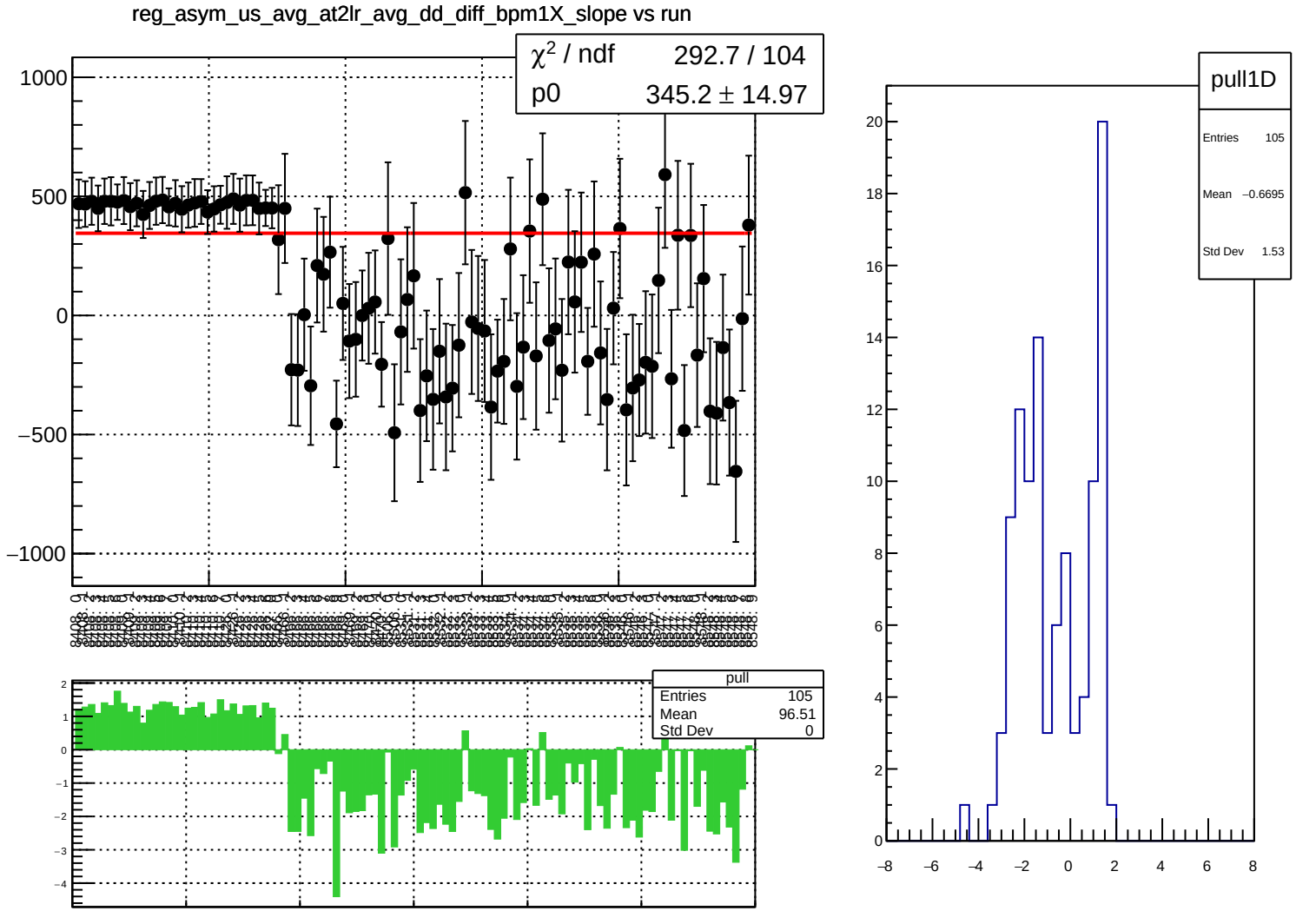

pull1D
Entries 105
Mean −0.05352
Std Dev 0.8341
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

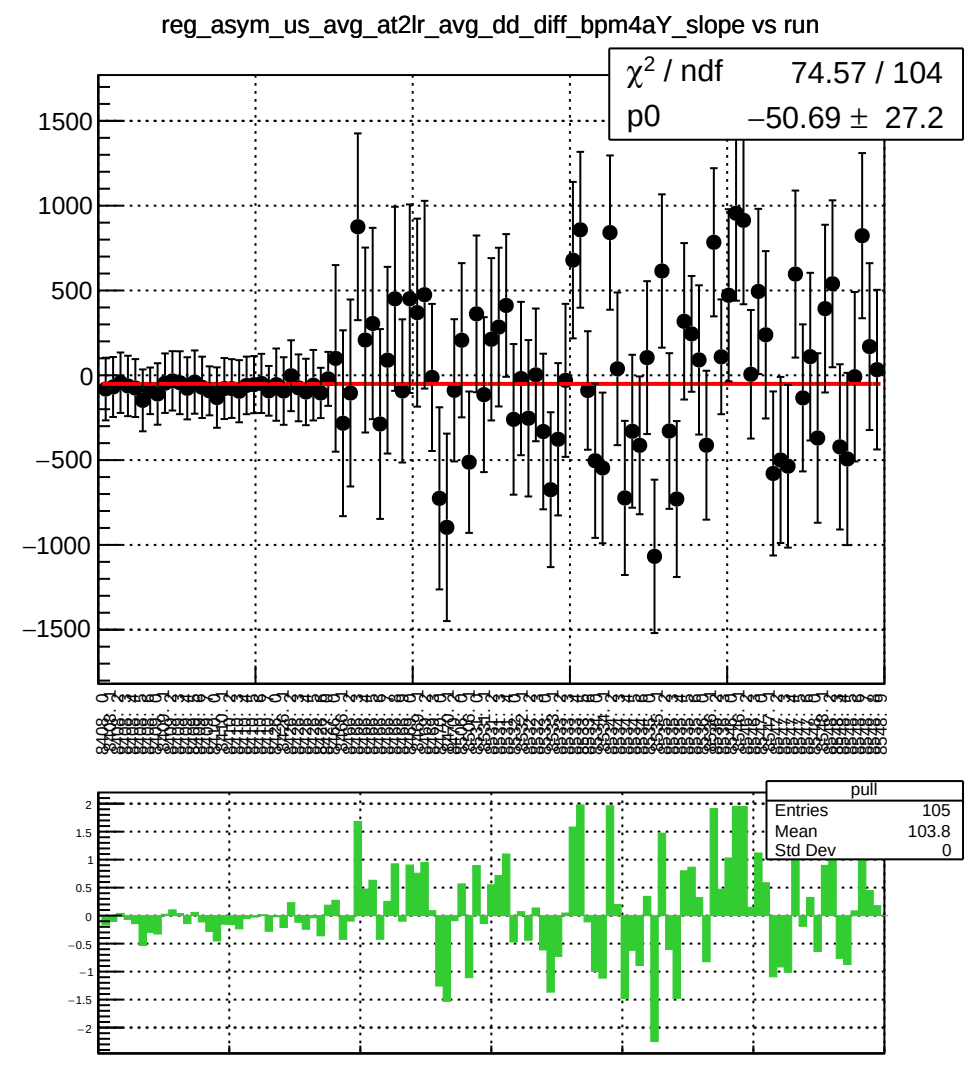

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 199.3 / 104
p0 375.2 ± 20.27
1000
500
0
−500
−1000
pull
Entries 105
Mean 121.3
Std Dev 0
1
0
−1
−2
−3

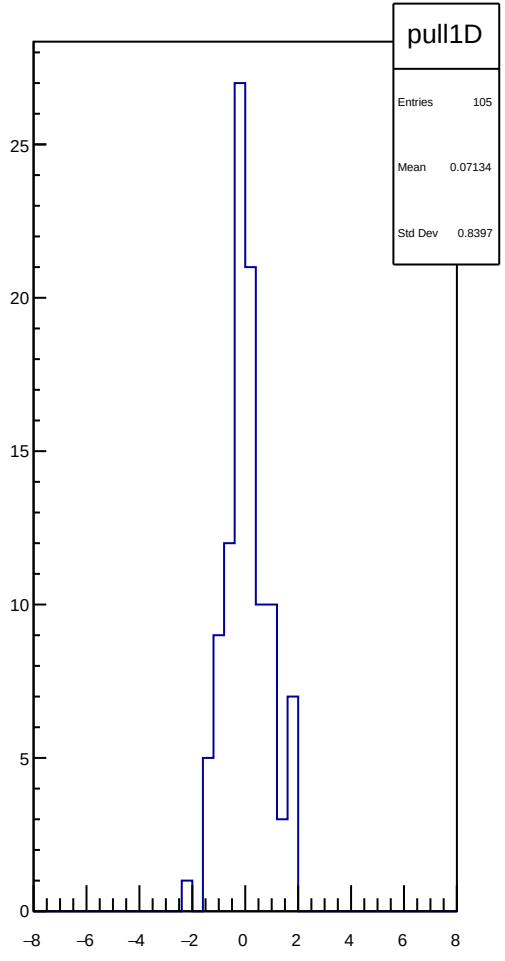

pull1D
Entries 105
Mean −0.3758
Std Dev 1.326
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

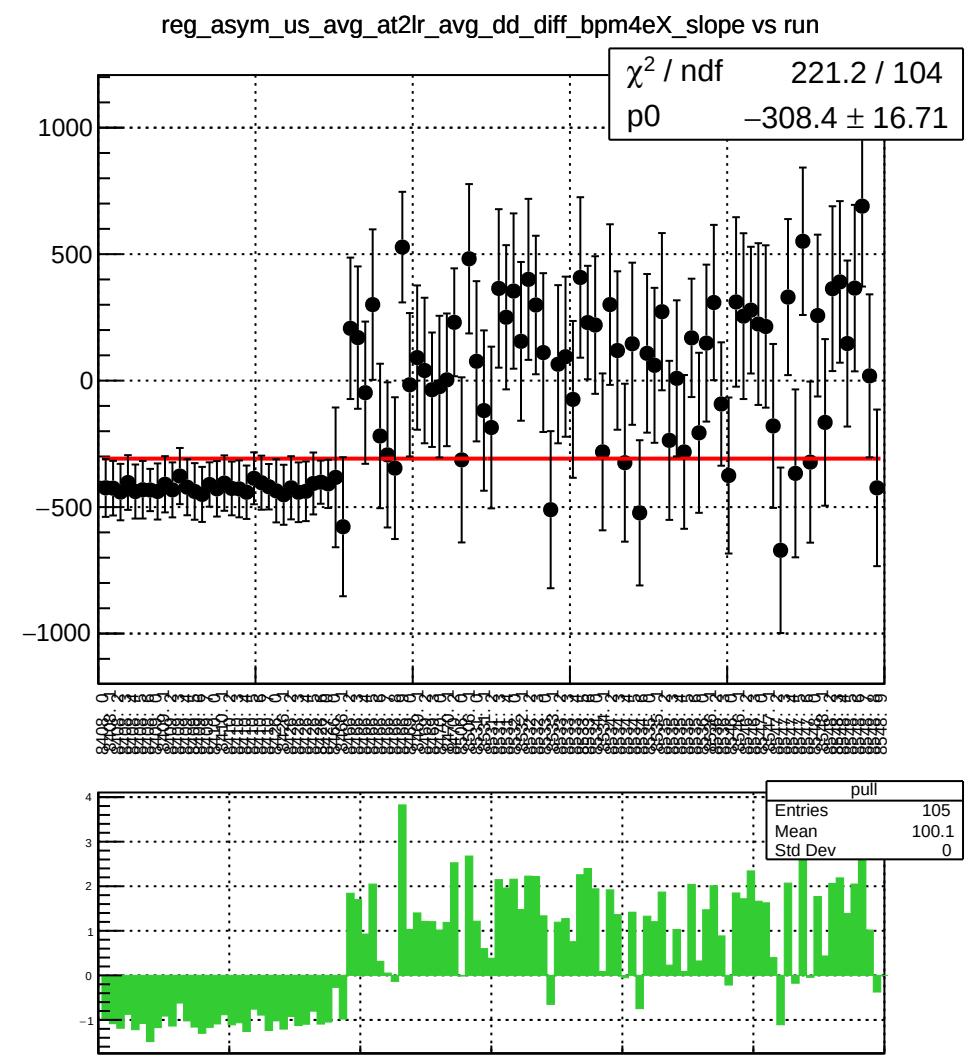

reg_asym_us_avg_at2lr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 72.88 / 104
p0 22.77 ± 34.63
1500
1000
500
0
−500
−1000
−1500
pull
Entries 105
Mean 124.4
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 105
Mean −0.01704
Std Dev 0.8329
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

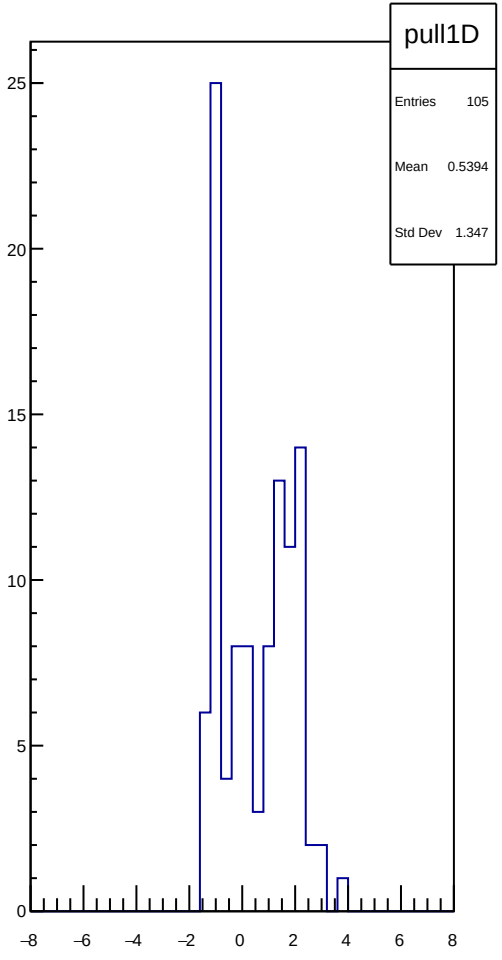

reg_asym_us_avg_at2lr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 4581 / 104
p0 −220.8 ± 2.107
50
0
−50
−100
−150
−200
−250
−300
−350
pull
Entries 105
Mean 122
Std Dev 0
10
5
0
−5
−10
pull1D
Entries 105
Mean 2.388
Std Dev 5.777
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

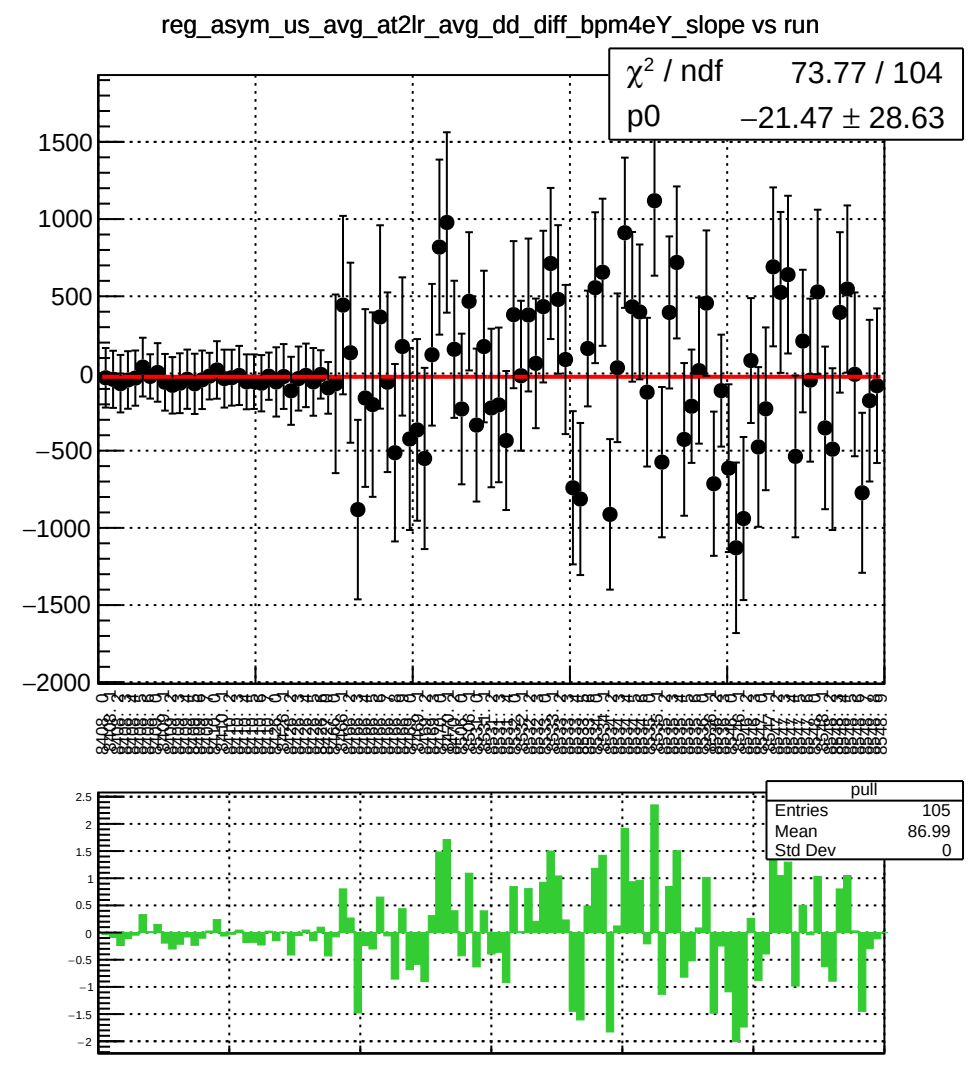

reg_asym_us_avg_at2lr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 292.7 / 104
p0 345.2 ± 14.97
1000
500
0
−500
−1000
pull
Entries 105
Mean 96.51
Std Dev 0
2
1
0
−1
−2
−3
−4
pull1D
Entries 105
Mean −0.6695
Std Dev 1.53
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

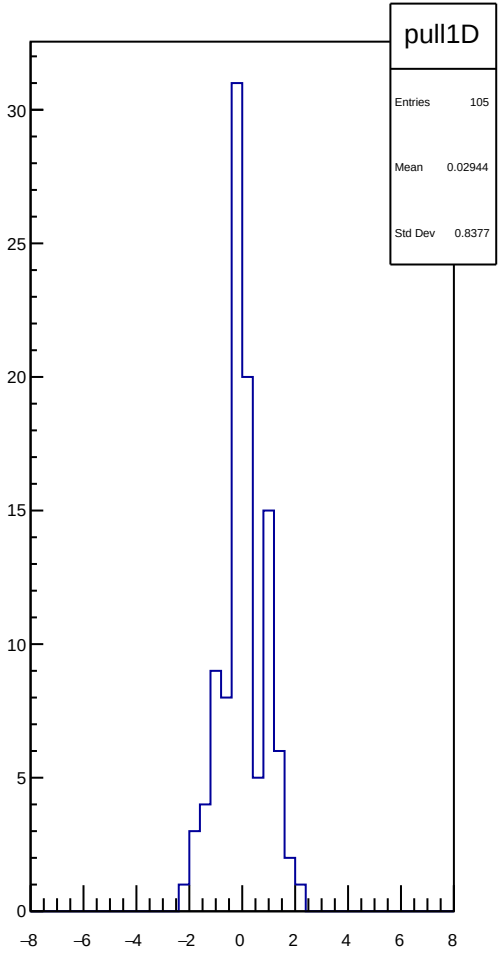

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 74.57 / 104
p0 −50.69 ± 27.2
1500
1000
500
0
−500
−1000
−1500
pull
Entries 105
Mean 103.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

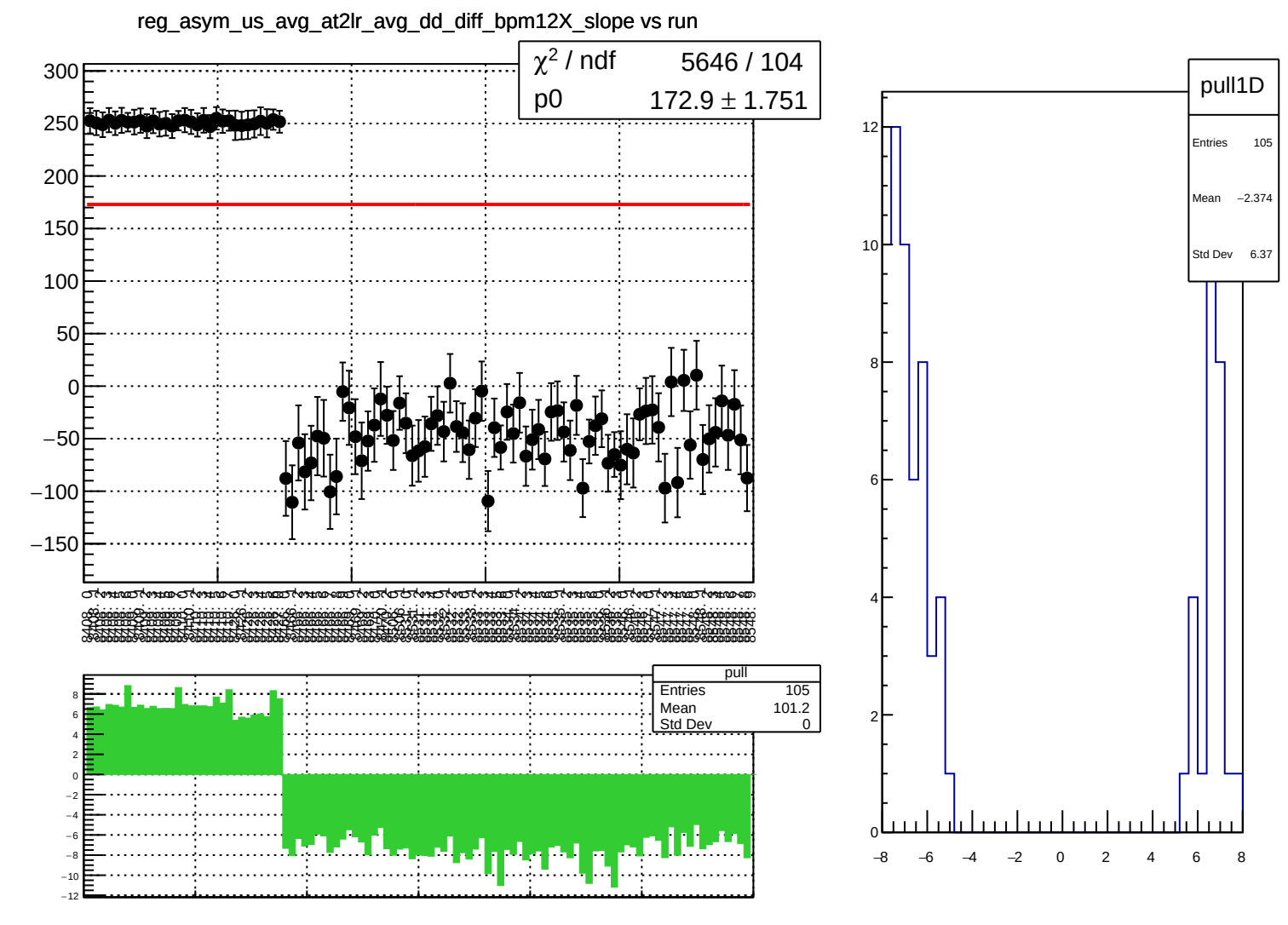

pull1D
Entries 105
Mean 0.07134
Std Dev 0.8397
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

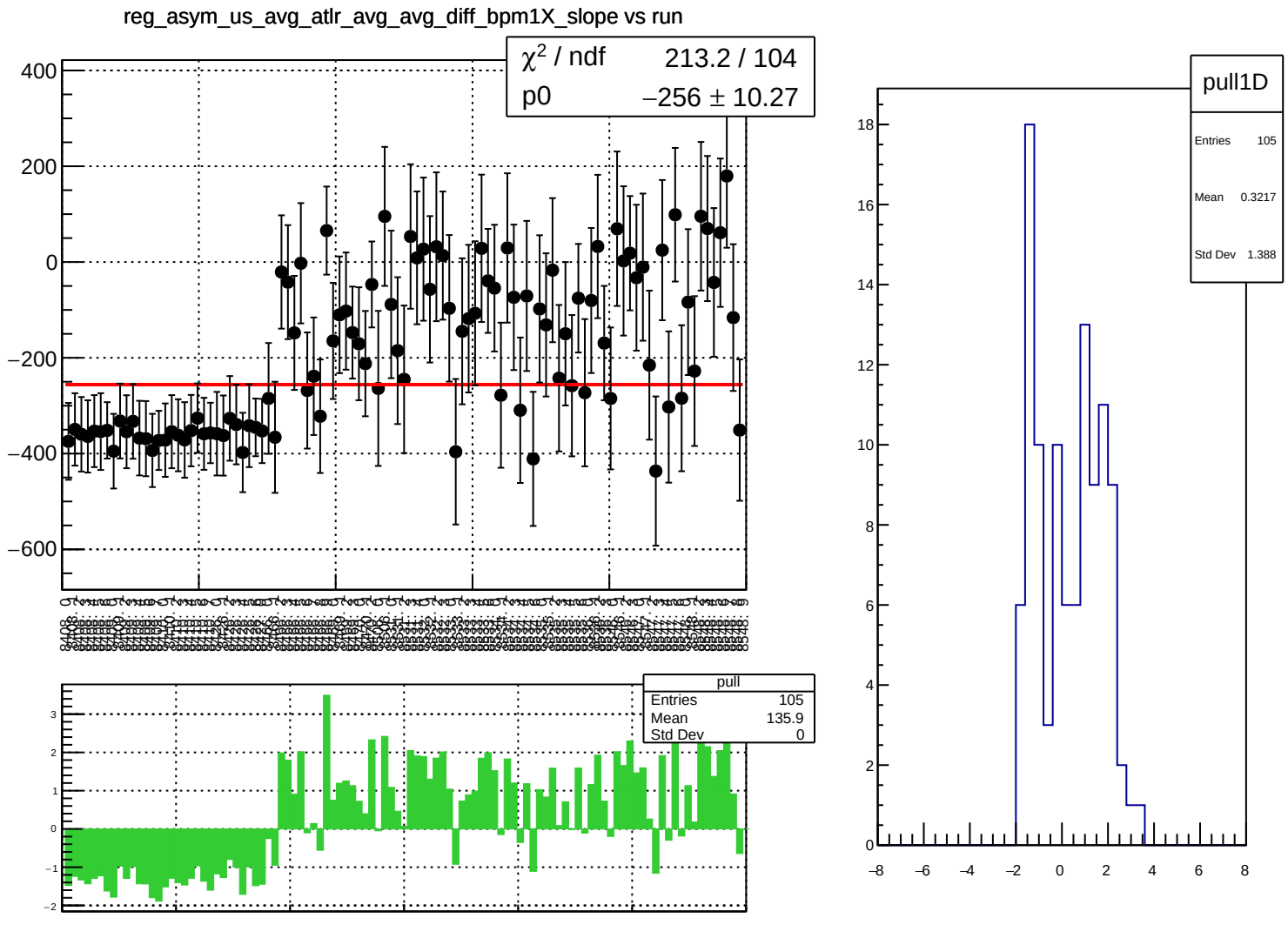

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 221.2 / 104
p0 −308.4 ± 16.71
1000
500
0
−500
−1000
pull
Entries 105
Mean 100.1
Std Dev 0
4
3
2
1
0
−1

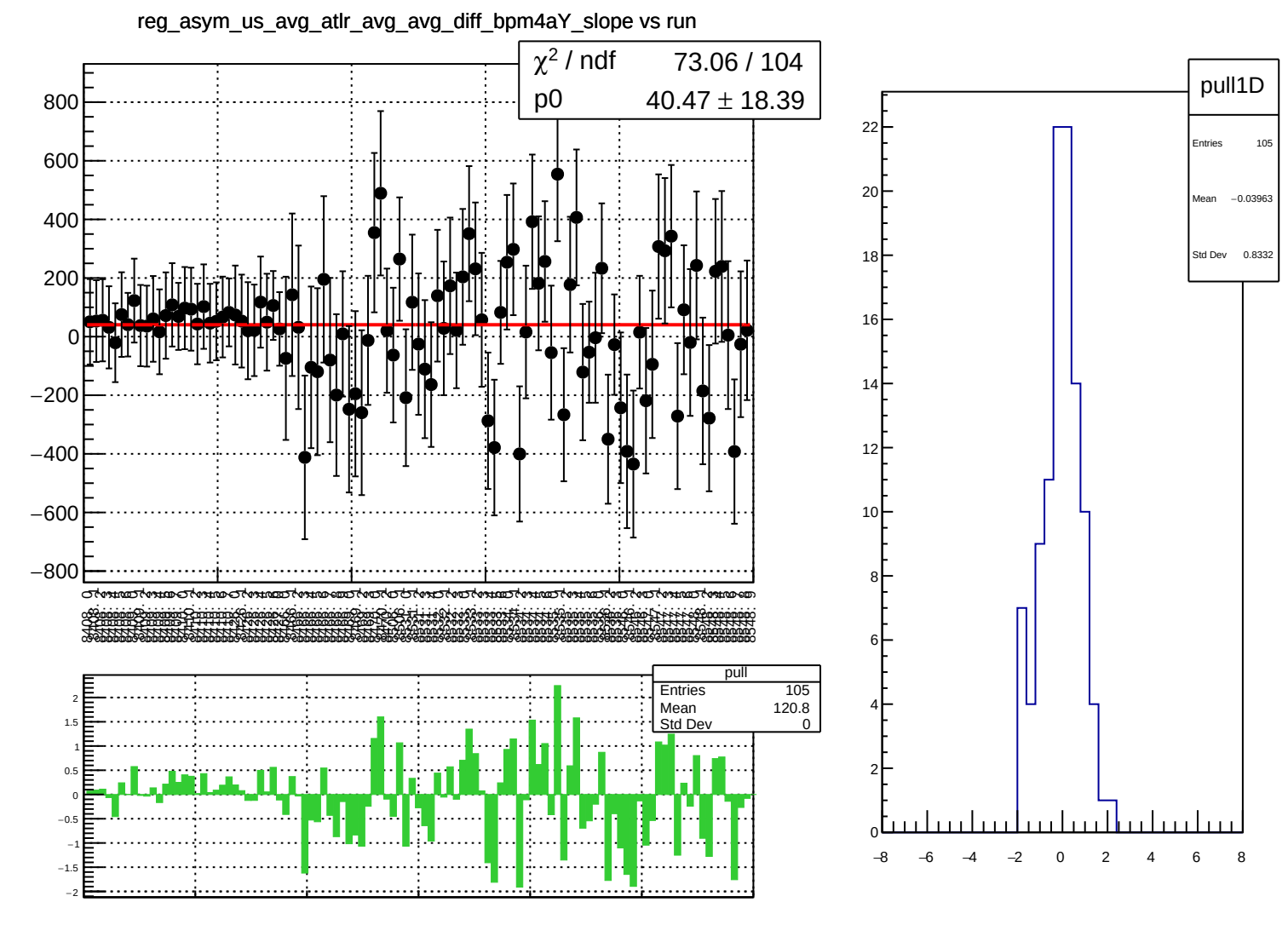

pull1D
Entries 105
Mean 0.5394
Std Dev 1.347
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

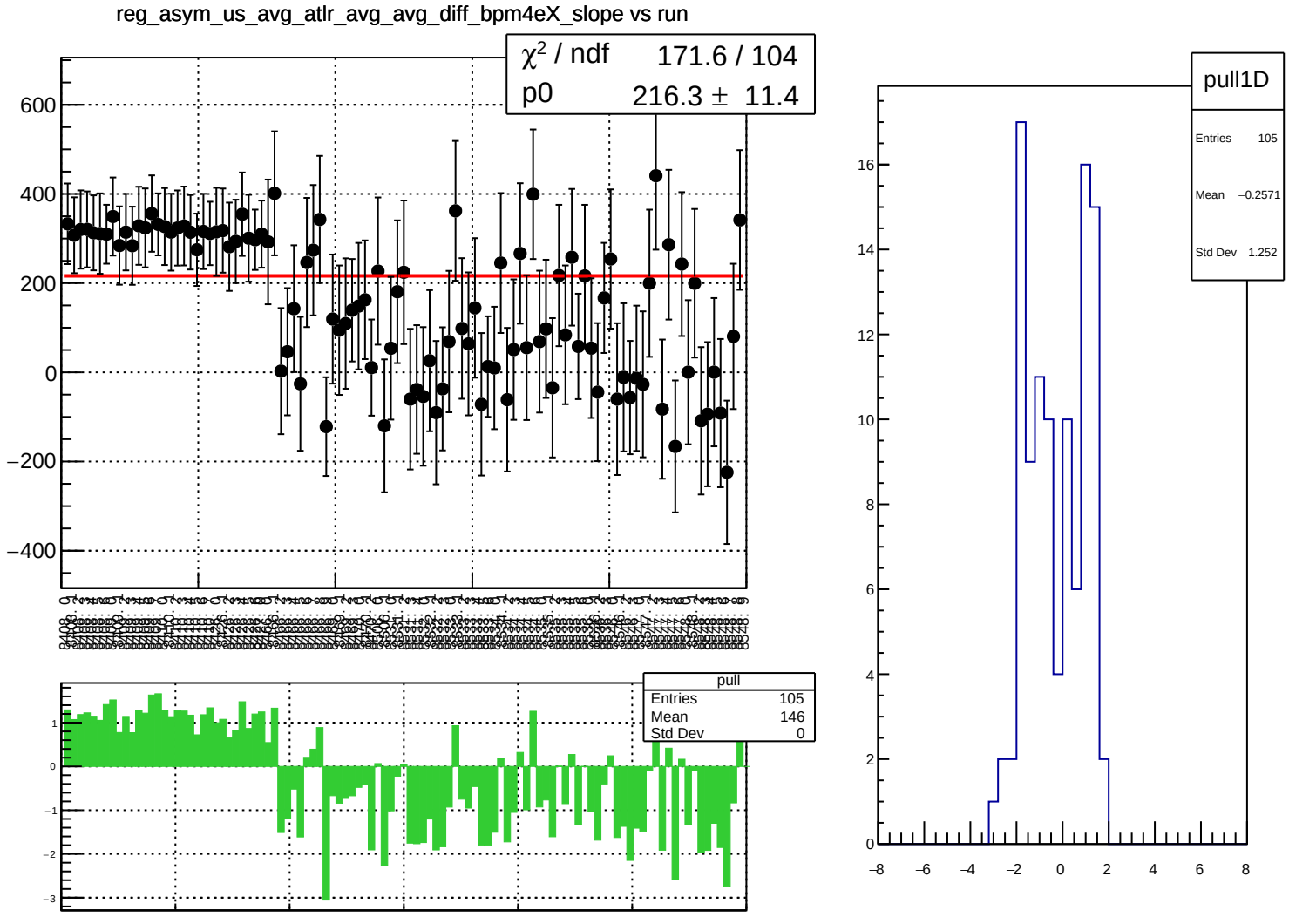

reg_asym_us_avg_at2lr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 73.77 / 104
p0 −21.47 ± 28.63
1500
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 105
Mean 86.99
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

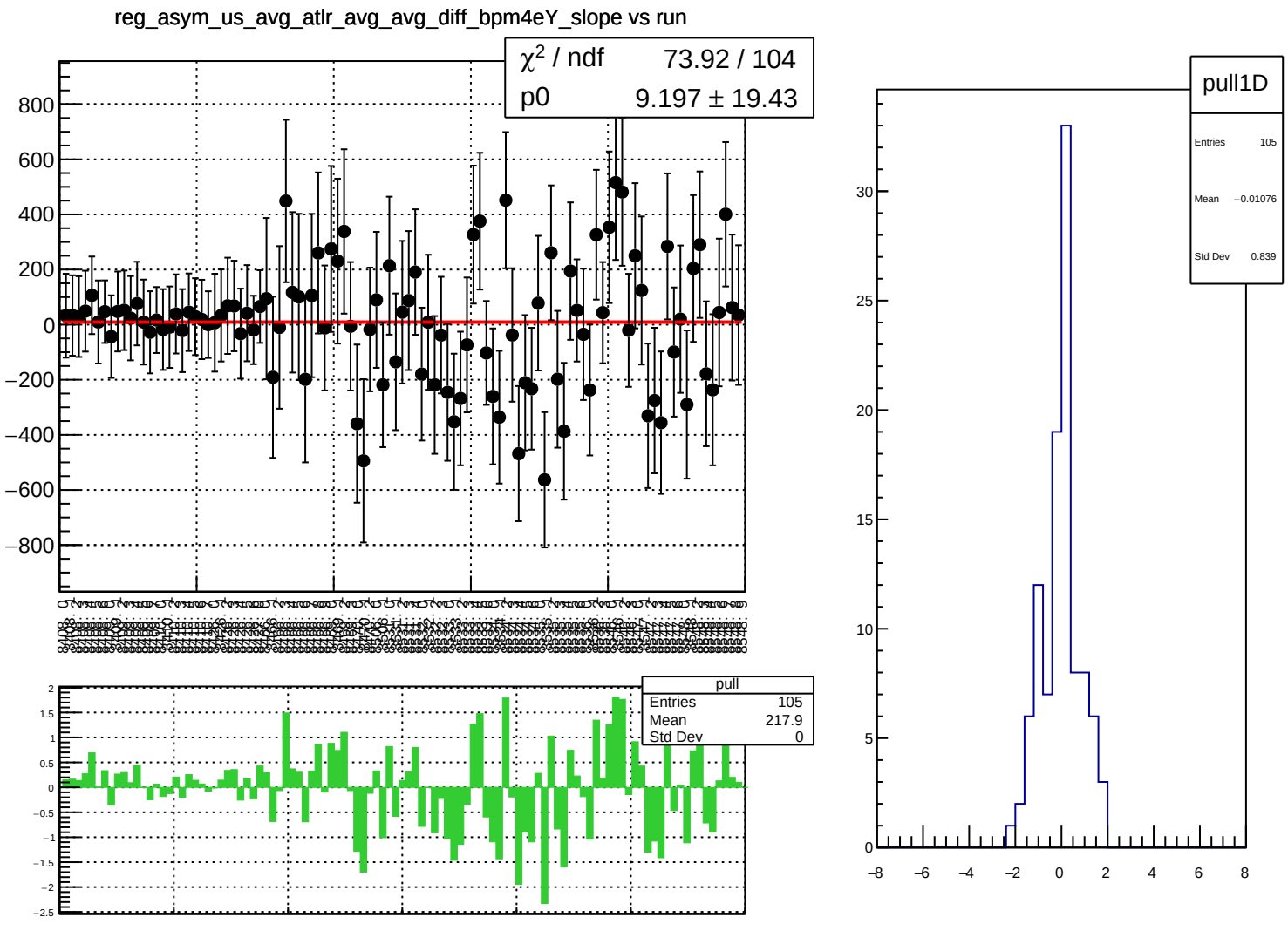

pull1D
Entries 105
Mean 0.02944
Std Dev 0.8377
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

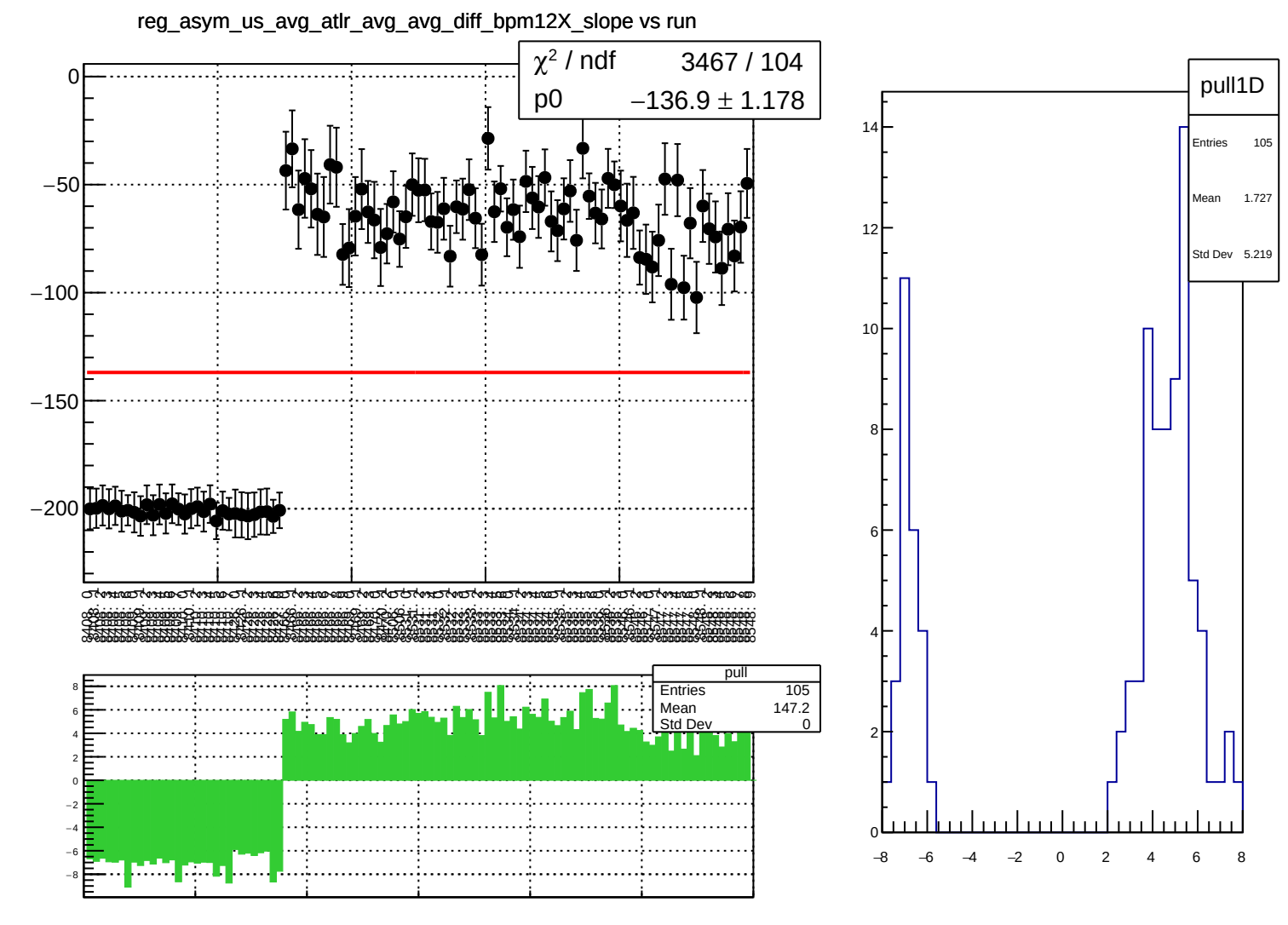

reg_asym_us_avg_at2lr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 5646 / 104
p0 172.9 ± 1.751
pull
Entries 105
Mean 101.2
Std Dev 0
pull1D
Entries 105
Mean −2.374
Std Dev 6.37

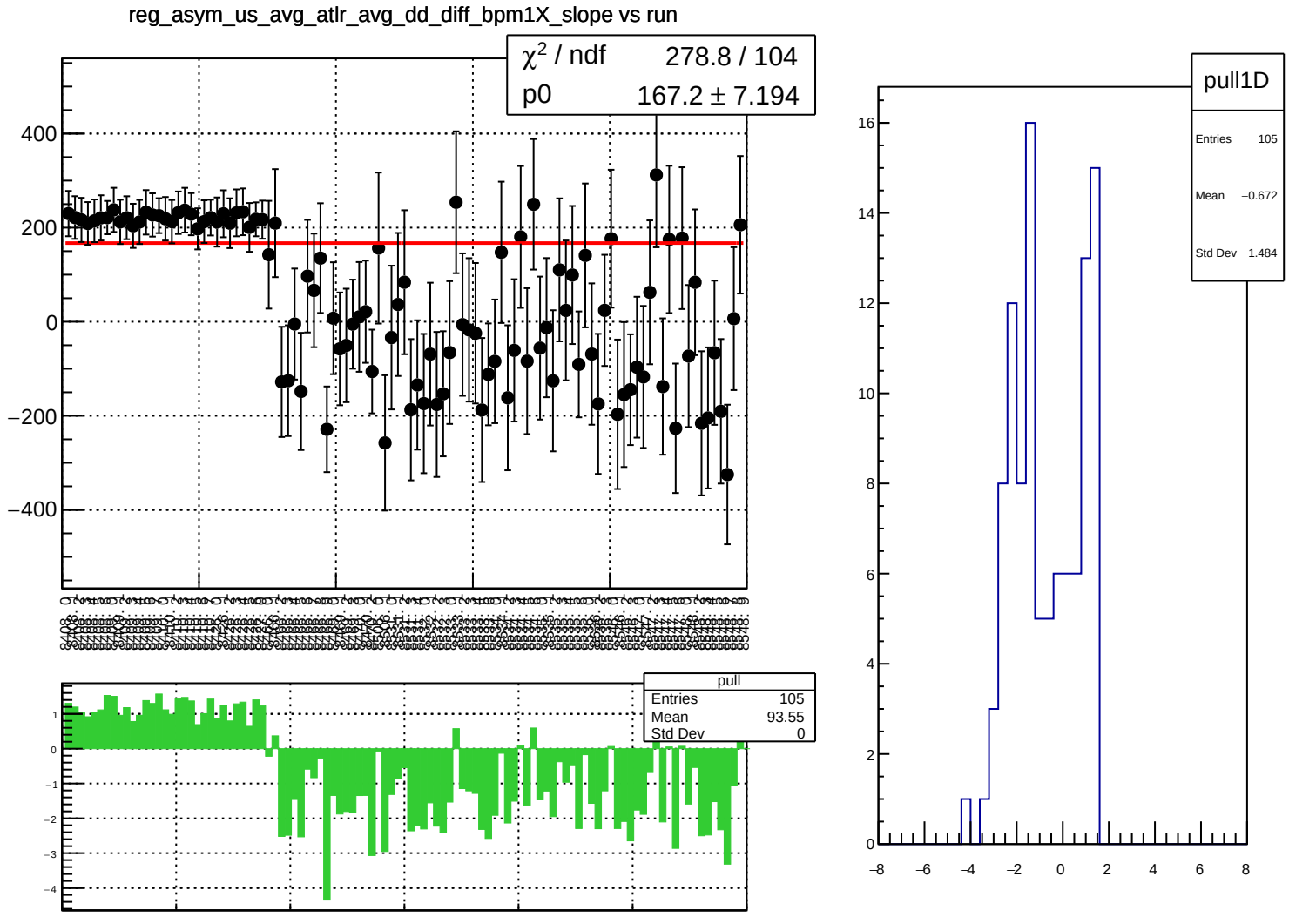

reg_asym_us_avg_atlr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 213.2 / 104
p0 −256 ± 10.27
400
200
0
−200
−400
−600
pull
Entries 105
Mean 135.9
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.3217
Std Dev 1.388
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

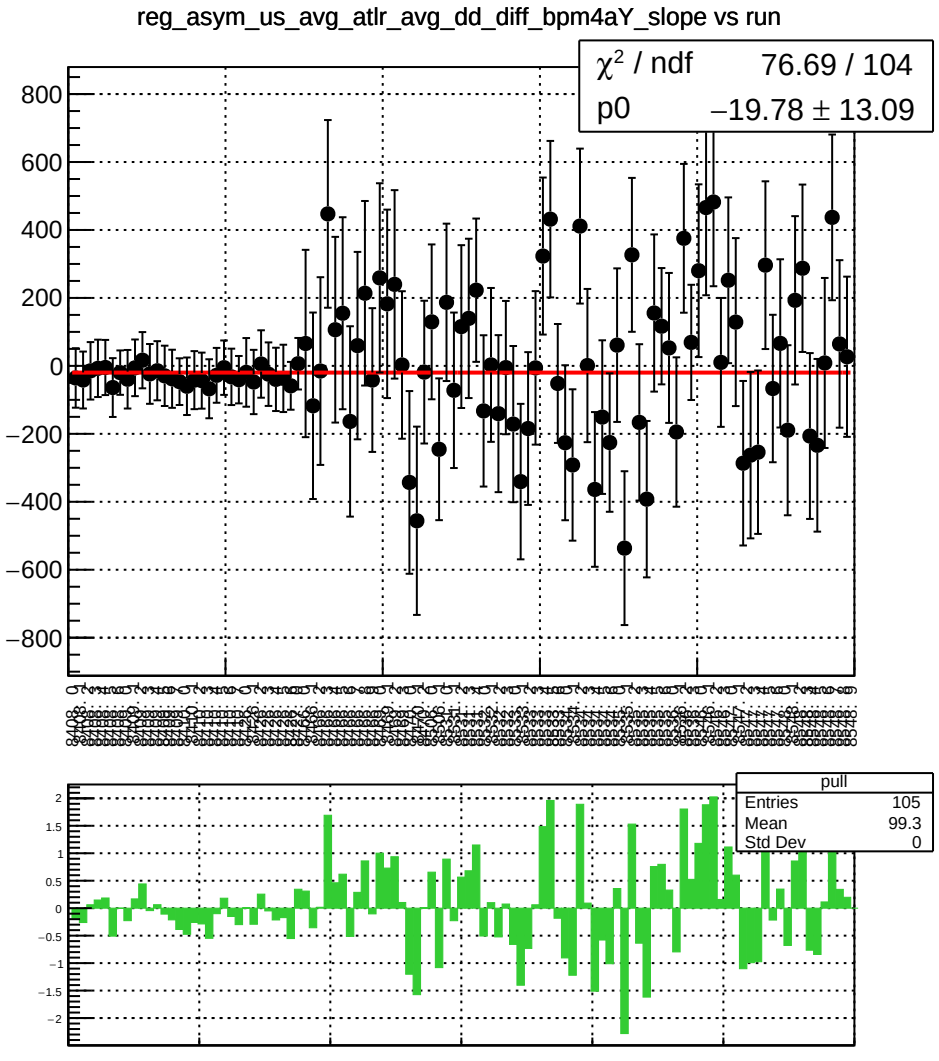

reg_asym_us_avg_atlr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 73.06 / 104
p0 40.47 ± 18.39
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 105
Mean 120.8
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 105
Mean −0.03963
Std Dev 0.8332
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

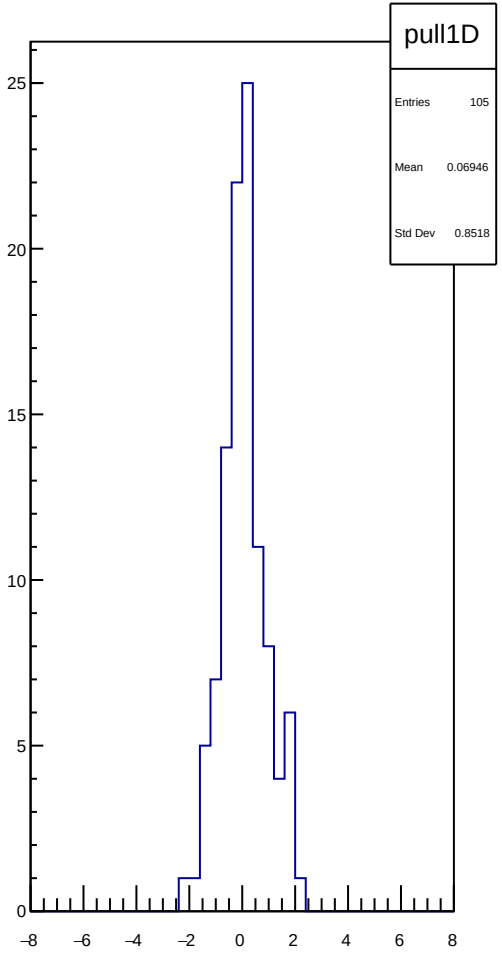

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 171.6 / 104
p0 216.3 ± 11.4
600
400
200
0
−200
−400
pull
Entries 105
Mean 146
Std Dev 0
1
0
−1
−2
−3
pull1D
Entries 105
Mean −0.2571
Std Dev 1.252
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

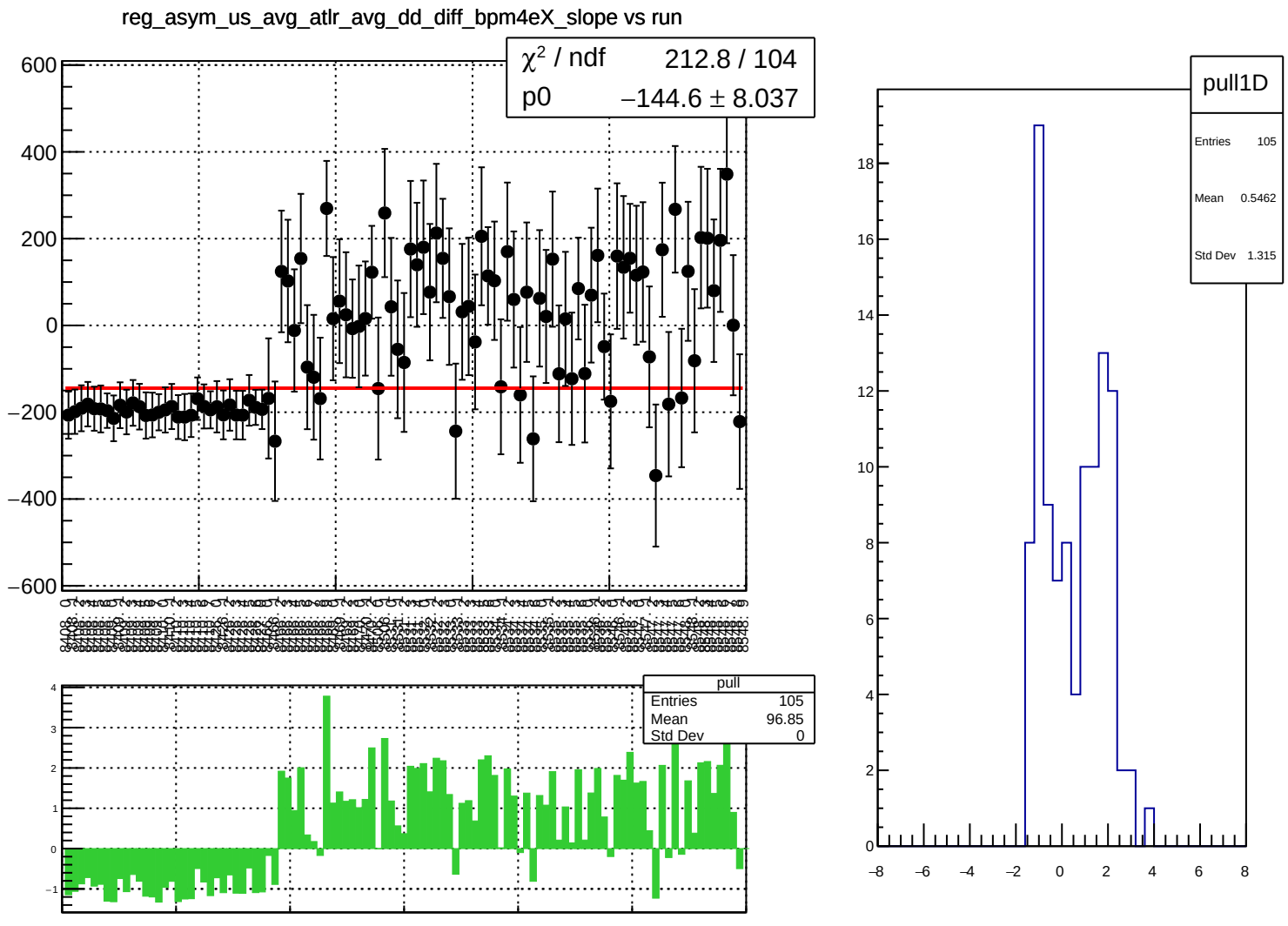

reg_asym_us_avg_atlr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 73.92 / 104
p0 9.197 ± 19.43
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 105
Mean 217.9
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 105
Mean −0.01076
Std Dev 0.839
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

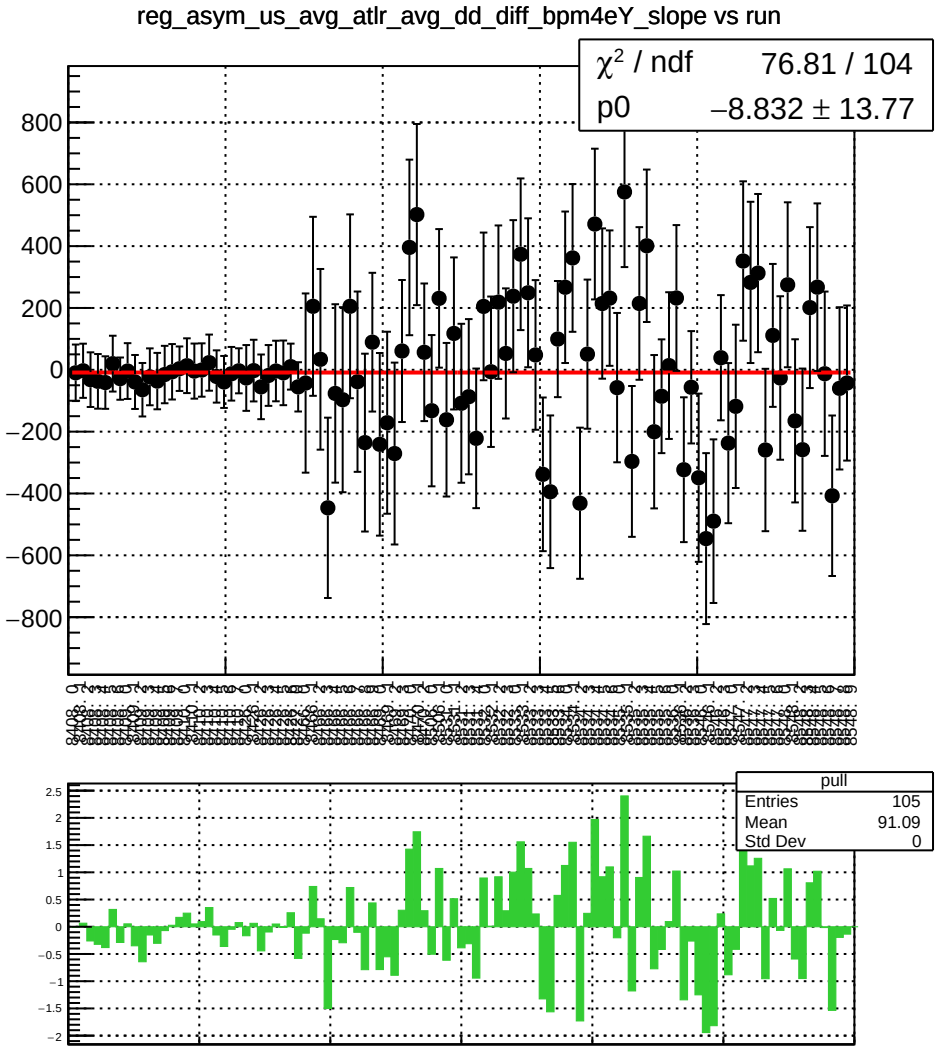

reg_asym_us_avg_atlr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 3467 / 104
p0 −136.9 ± 1.178
0
−50
−100
−150
−200
pull
Entries 105
Mean 147.2
Std Dev 0
8
6
4
2
0
−2
−4
−6
−8
pull1D
Entries 105
Mean 1.727
Std Dev 5.219
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

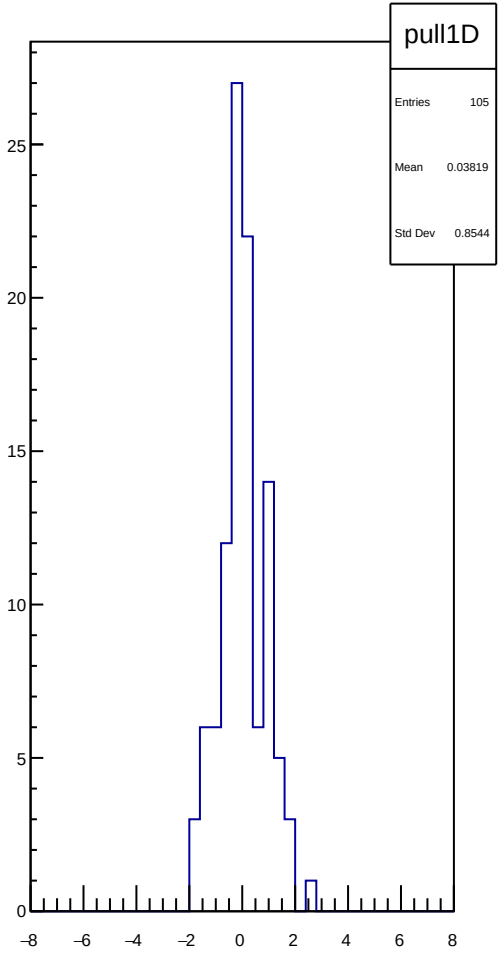

reg_asym_us_avg_atlr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 278.8 / 104
p0 167.2 ± 7.194
400
200
0
−200
−400
pull
Entries 105
Mean 93.55
Std Dev 0
1
0
−1
−2
−3
−4
pull1D
Entries 105
Mean −0.672
Std Dev 1.484
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

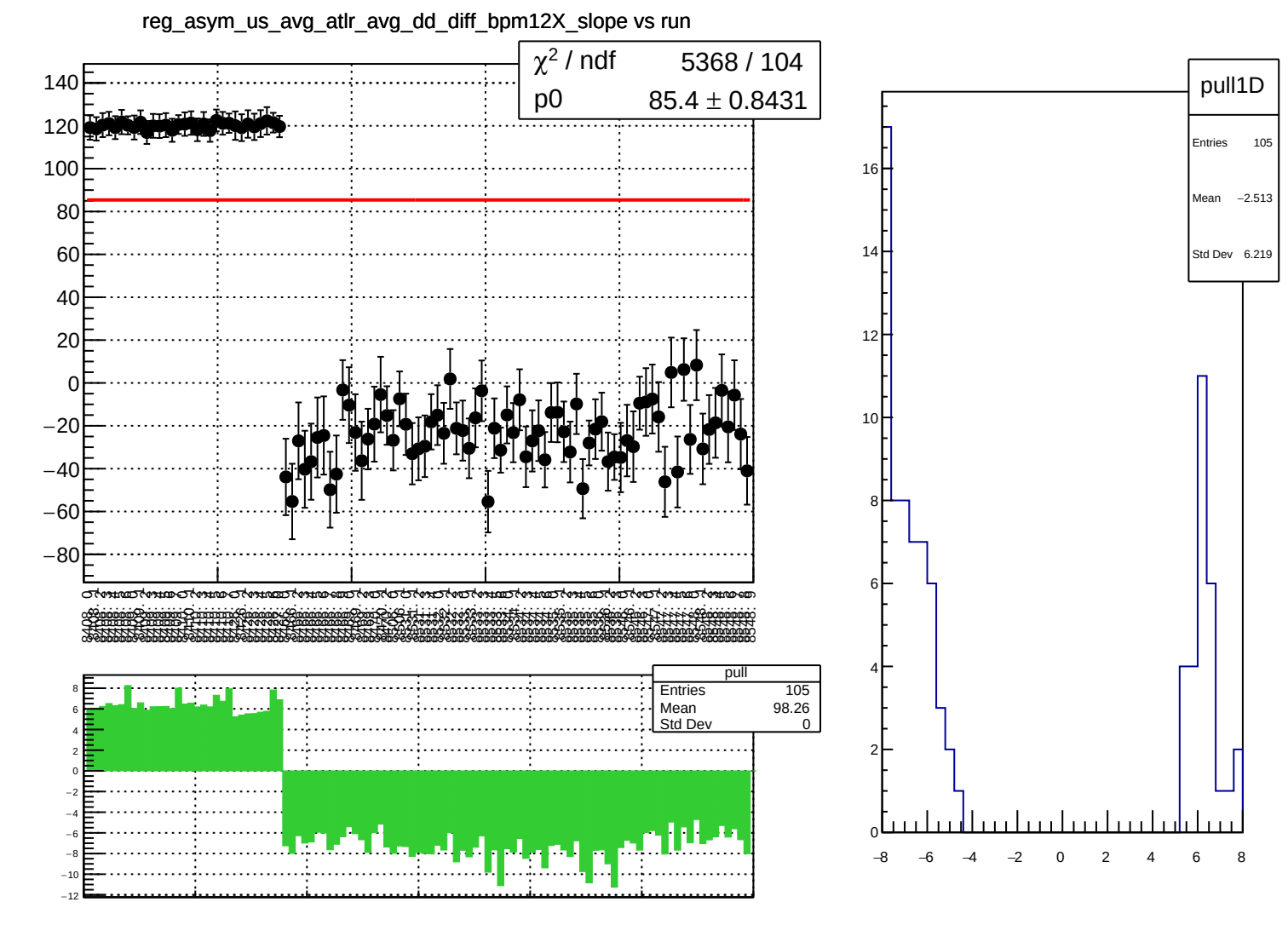

reg_asym_us_avg_atlr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 76.69 / 104
p0 −19.78 ± 13.09
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 105
Mean 99.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

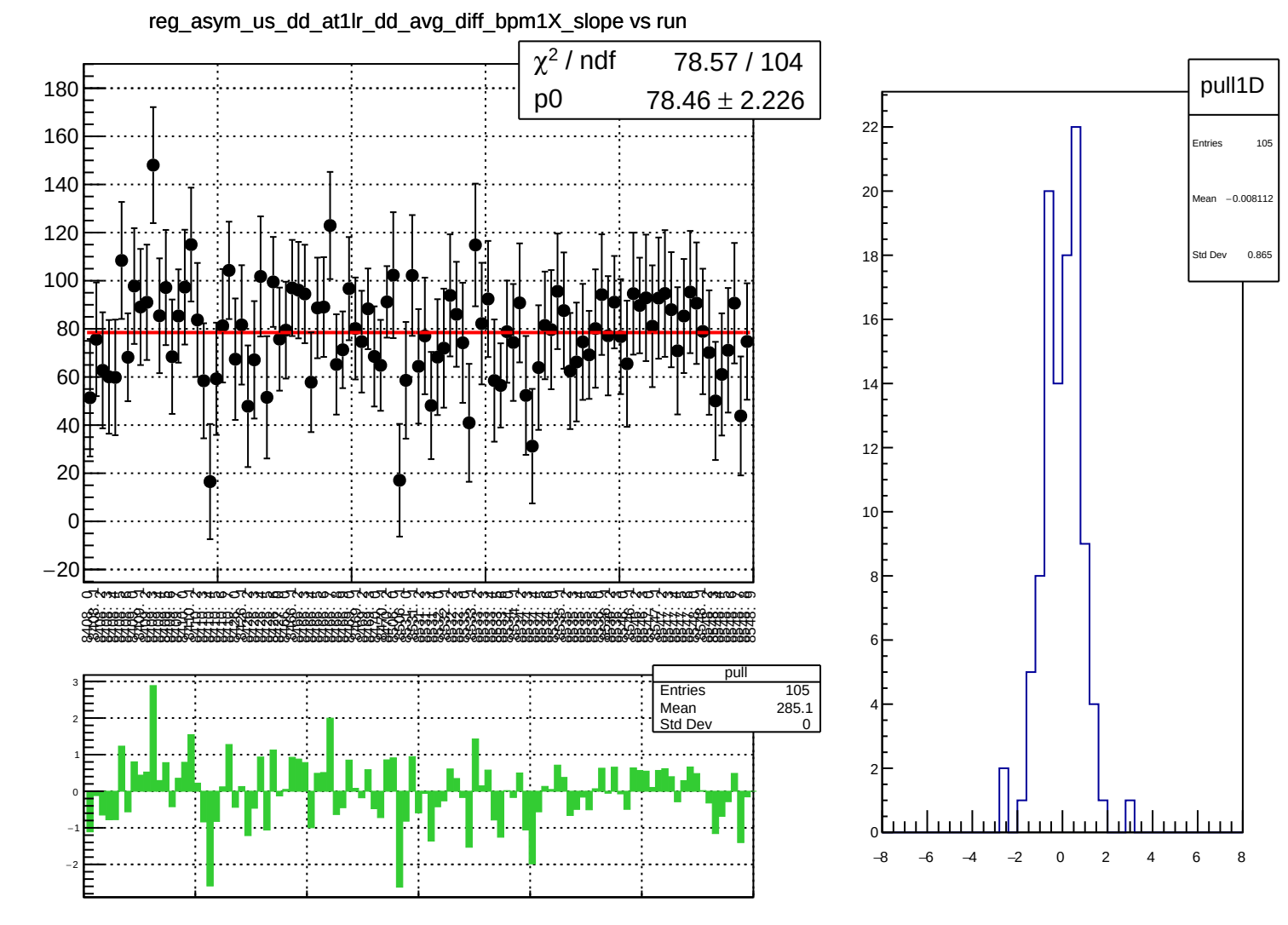

pull1D
Entries 105
Mean 0.06946
Std Dev 0.8518
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

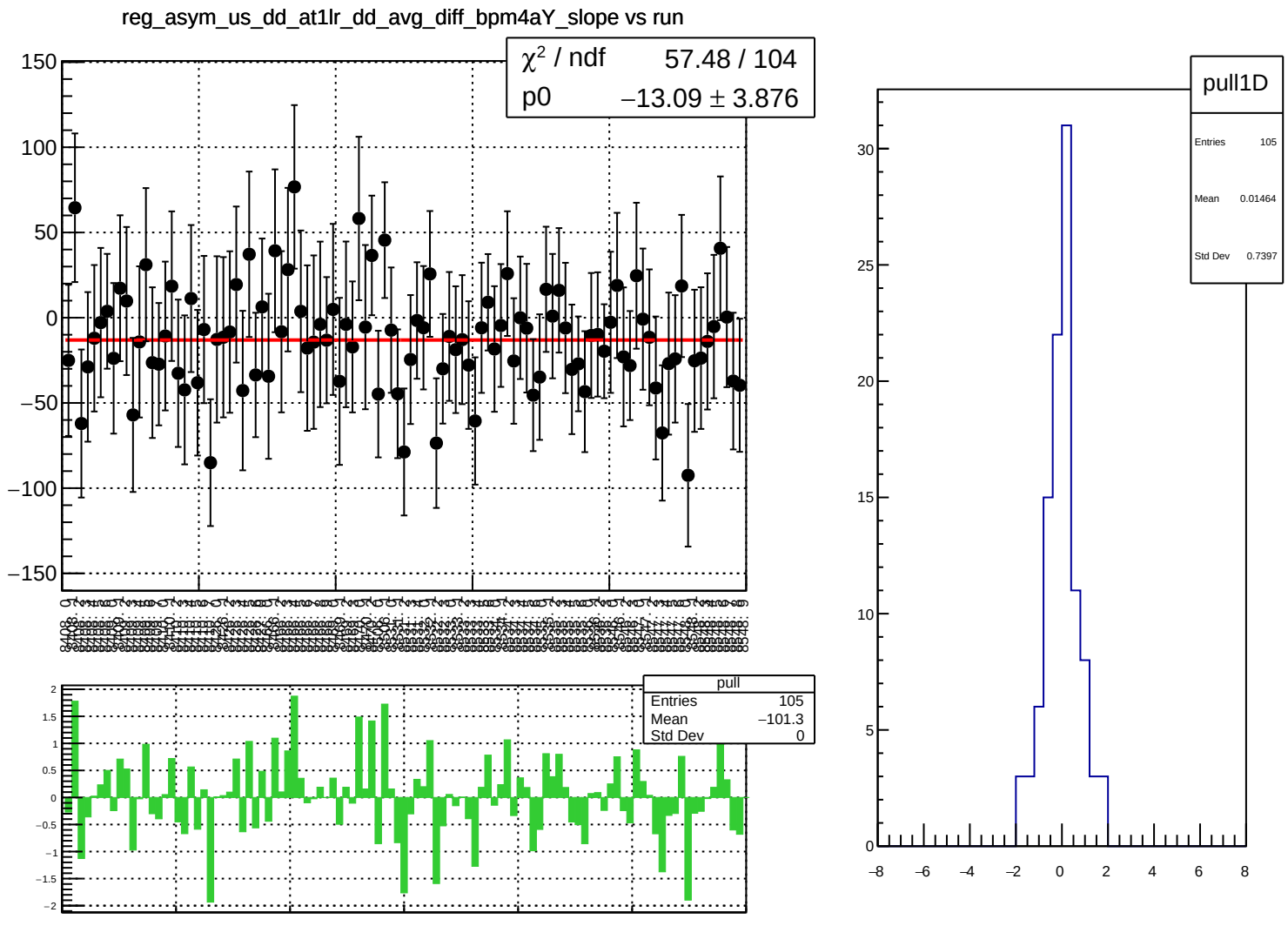

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 212.8 / 104
p0 −144.6 ± 8.037
600
400
200
0
−200
−400
−600
pull
Entries 105
Mean 96.85
Std Dev 0
4
3
2
1
0
−1
pull1D
Entries 105
Mean 0.5462
Std Dev 1.315
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

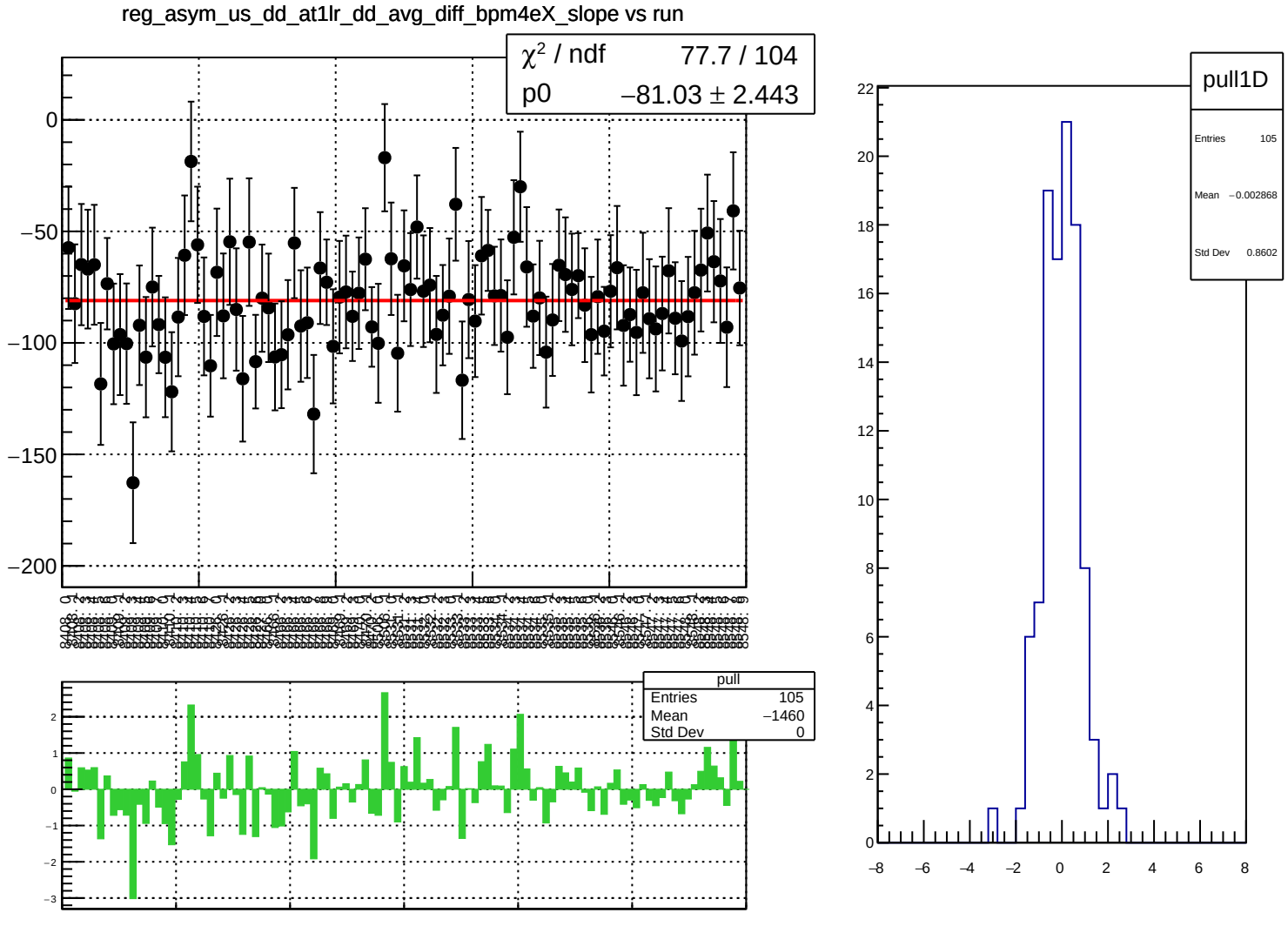

reg_asym_us_avg_atlr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 76.81 / 104
p0 −8.832 ± 13.77
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 105
Mean 91.09
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

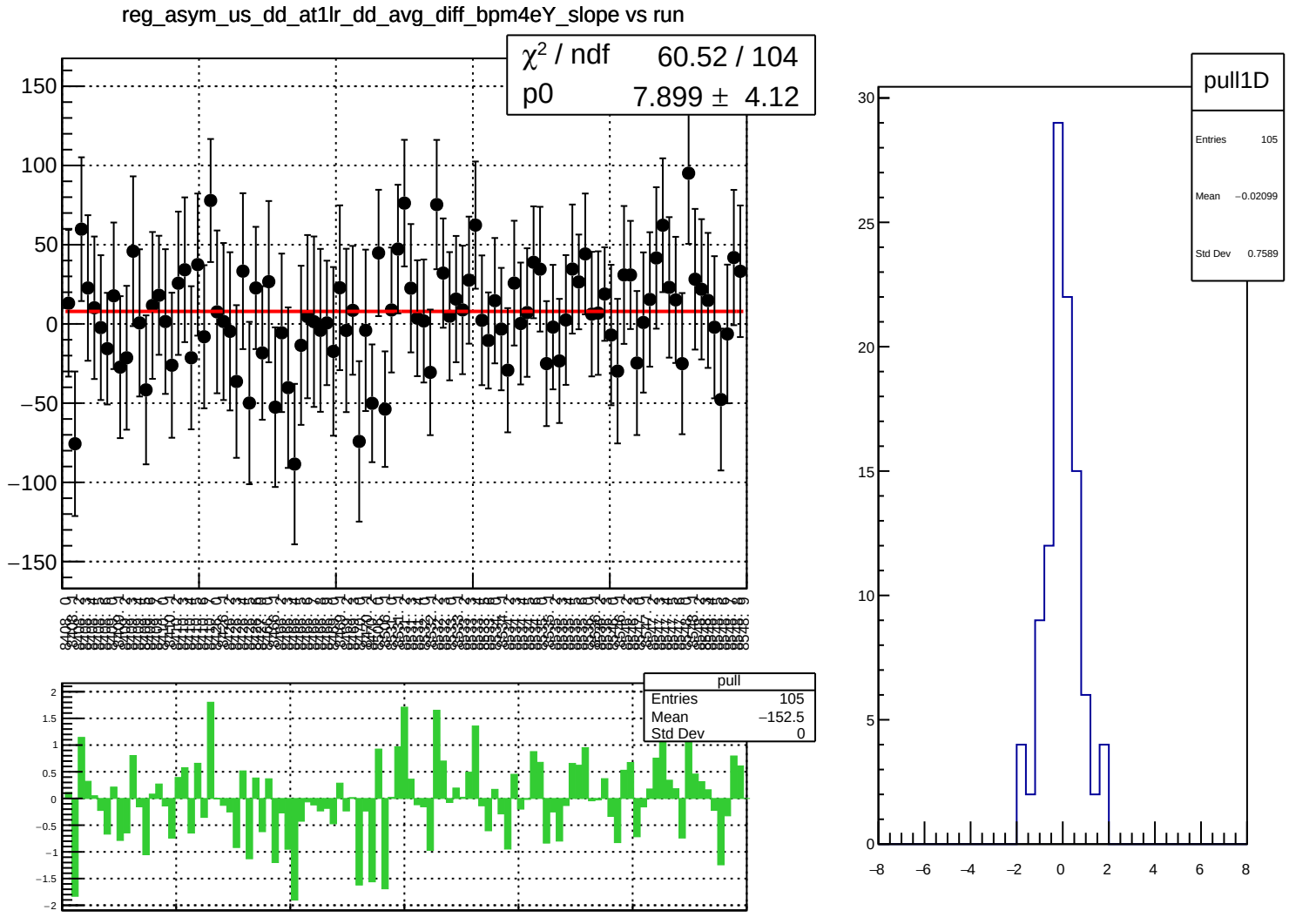

pull1D
Entries 105
Mean 0.03819
Std Dev 0.8544
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

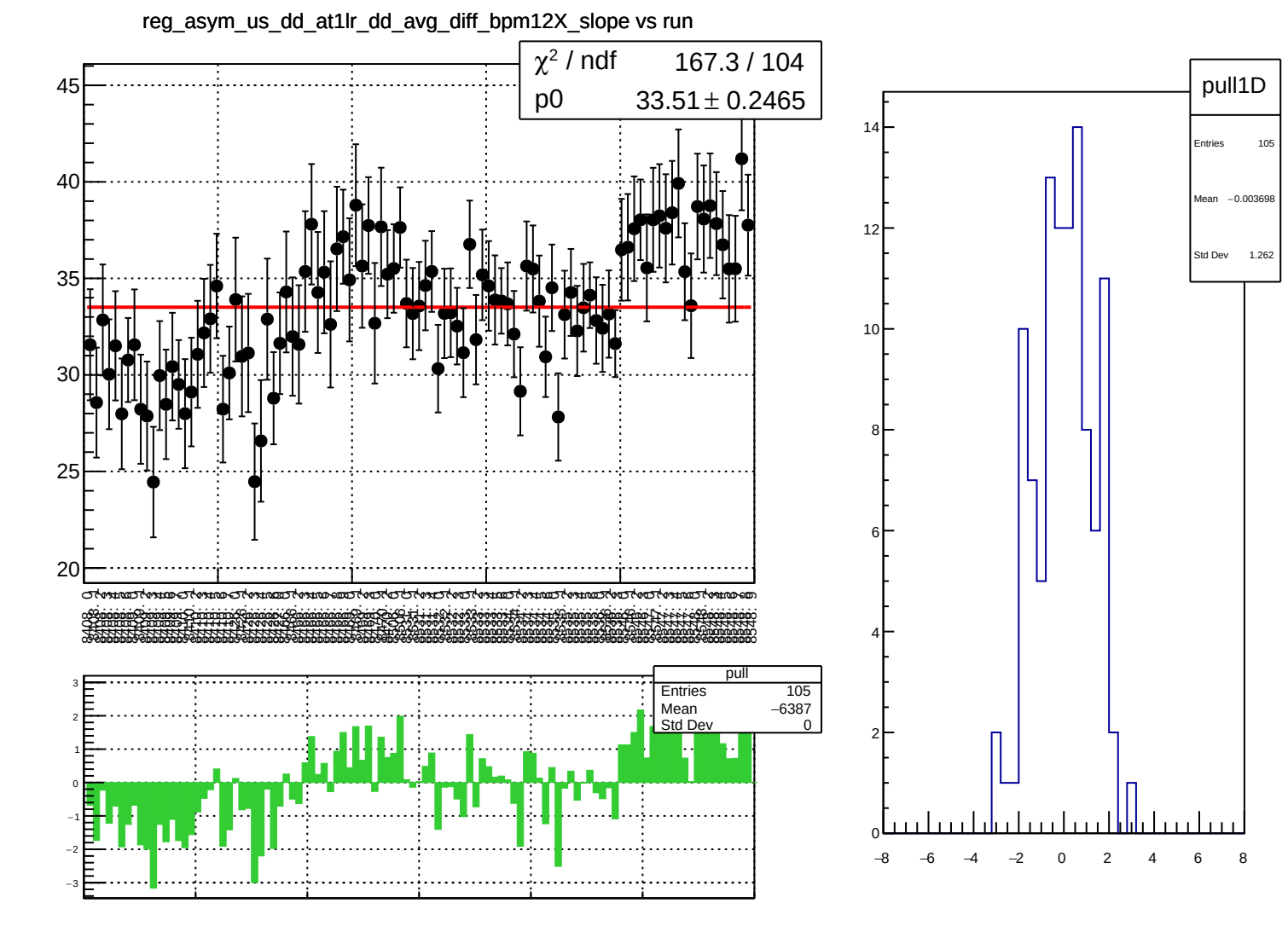

reg_asym_us_avg_atlr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 5368 / 104
p0 85.4 ± 0.8431
pull
Entries 105
Mean 98.26
Std Dev 0
pull1D
Entries 105
Mean −2.513
Std Dev 6.219

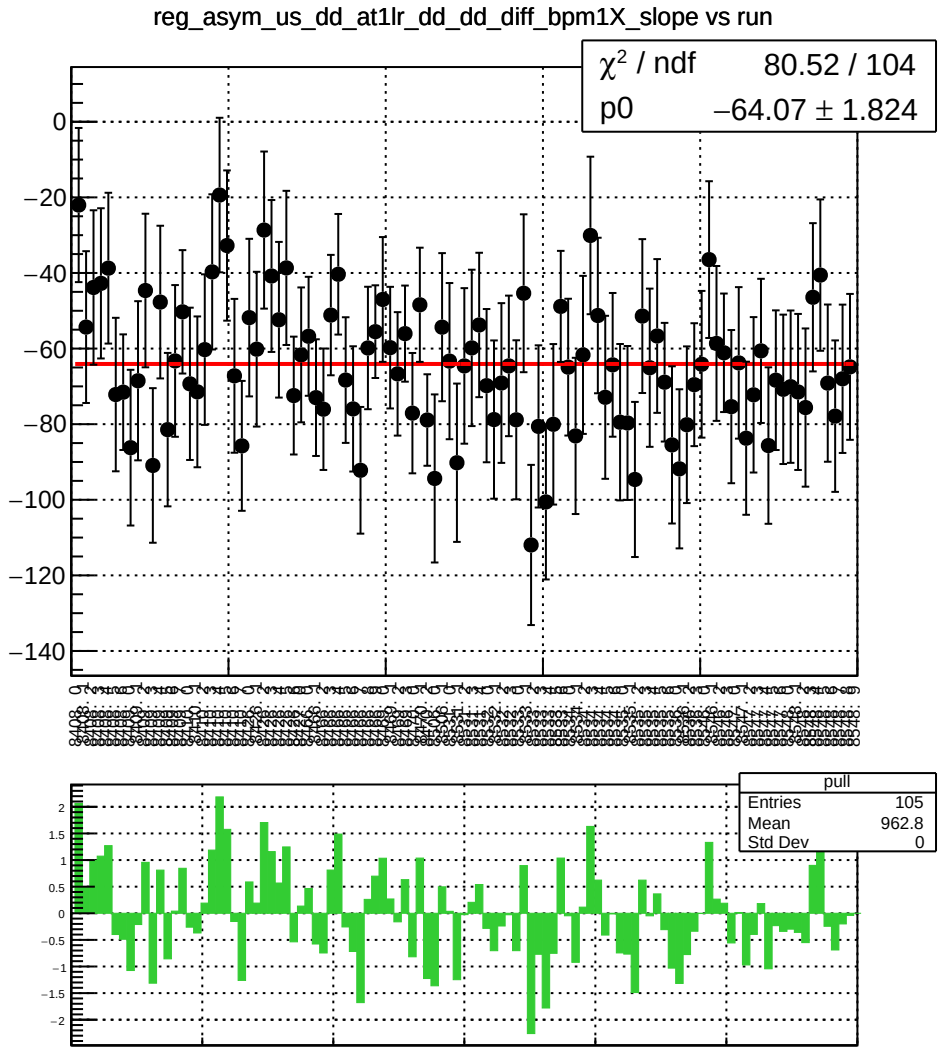

reg_asym_us_dd_at1lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 78.57 / 104
p0 78.46 ± 2.226
pull
Entries 105
Mean 285.1
Std Dev 0
pull1D
Entries 105
Mean −0.008112
Std Dev 0.865

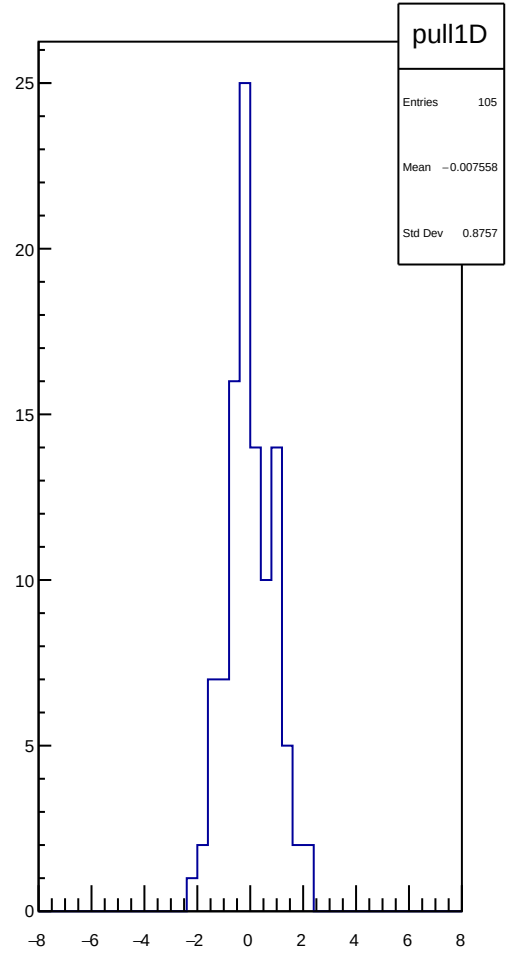

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 57.48 / 104
p0 −13.09 ± 3.876
150
100
50
0
−50
−100
−150
pull
Entries 105
Mean −101.3
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 105
Mean 0.01464
Std Dev 0.7397
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

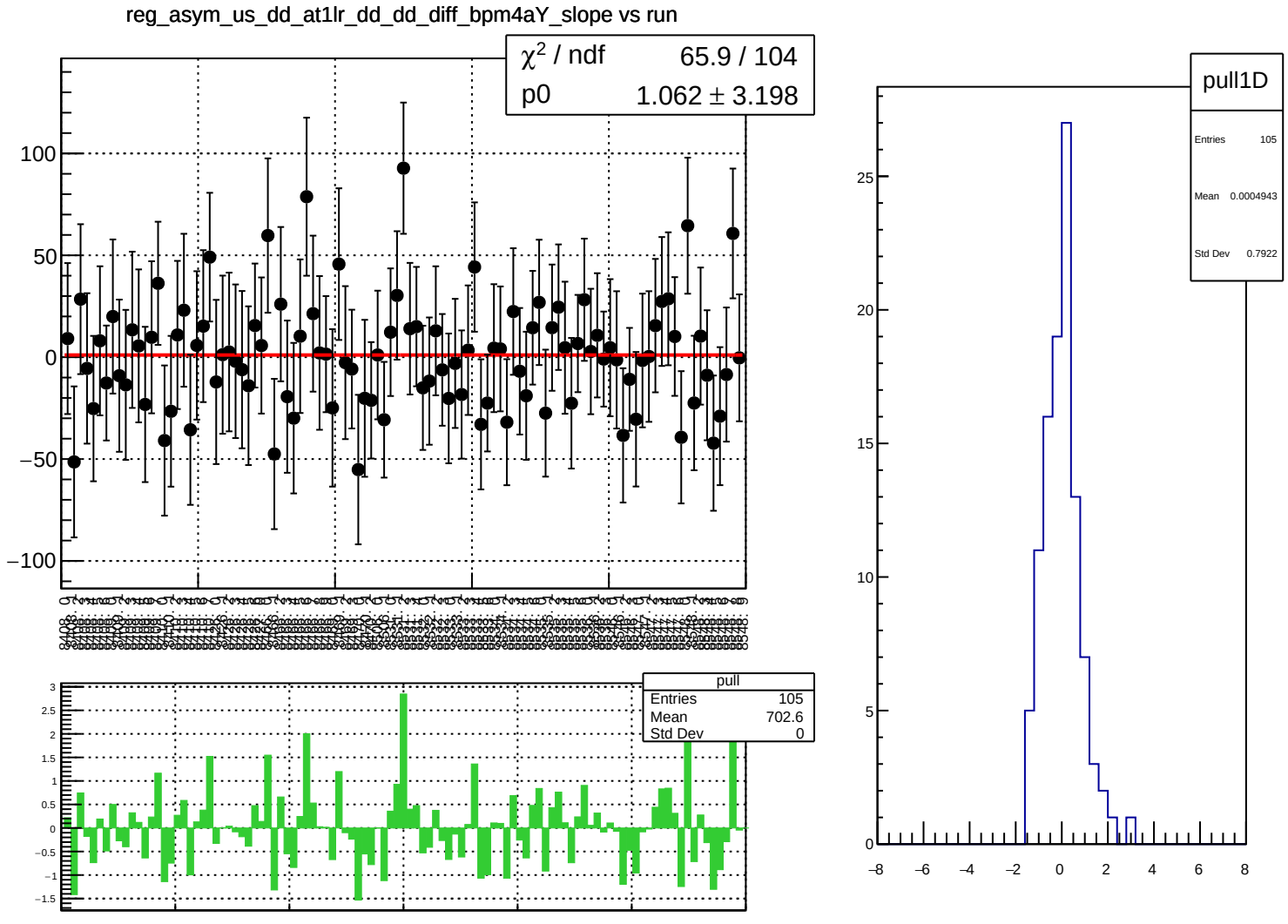

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 77.7 / 104
p0 −81.03 ± 2.443
0
−50
−100
−150
−200
pull
Entries 105
Mean −1460
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 105
Mean −0.002868
Std Dev 0.8602
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

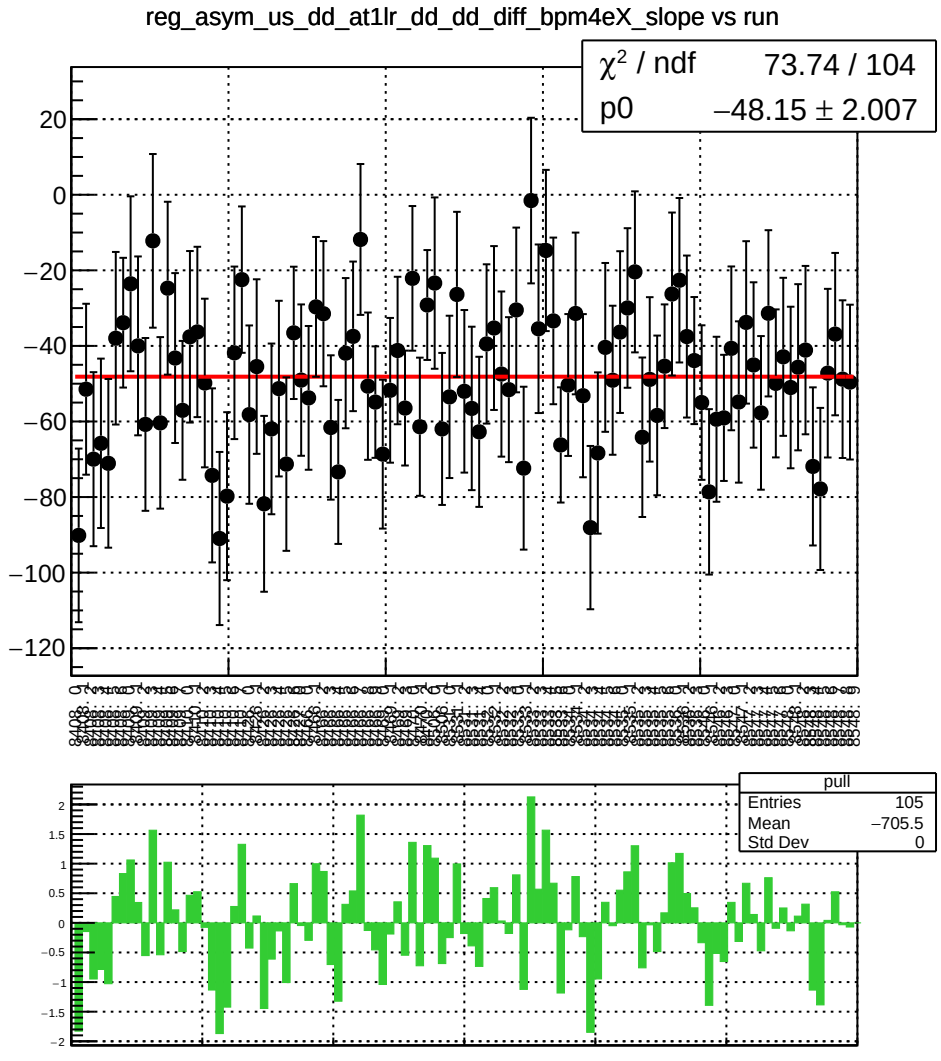

reg_asym_us_dd_at1lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 60.52 / 104
p0 7.899 ± 4.12
150
100
50
0
−50
−100
−150
pull
Entries 105
Mean −152.5
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 105
Mean −0.02099
Std Dev 0.7589
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

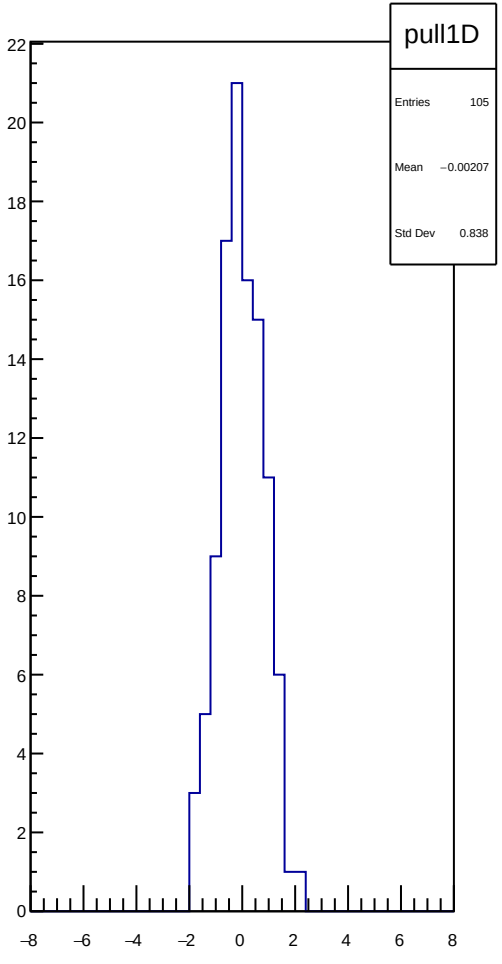

reg_asym_us_dd_at1lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 167.3 / 104
p0 33.51 ± 0.2465
pull
Entries 105
Mean −6387
Std Dev 0
pull1D
Entries 105
Mean −0.003698
Std Dev 1.262

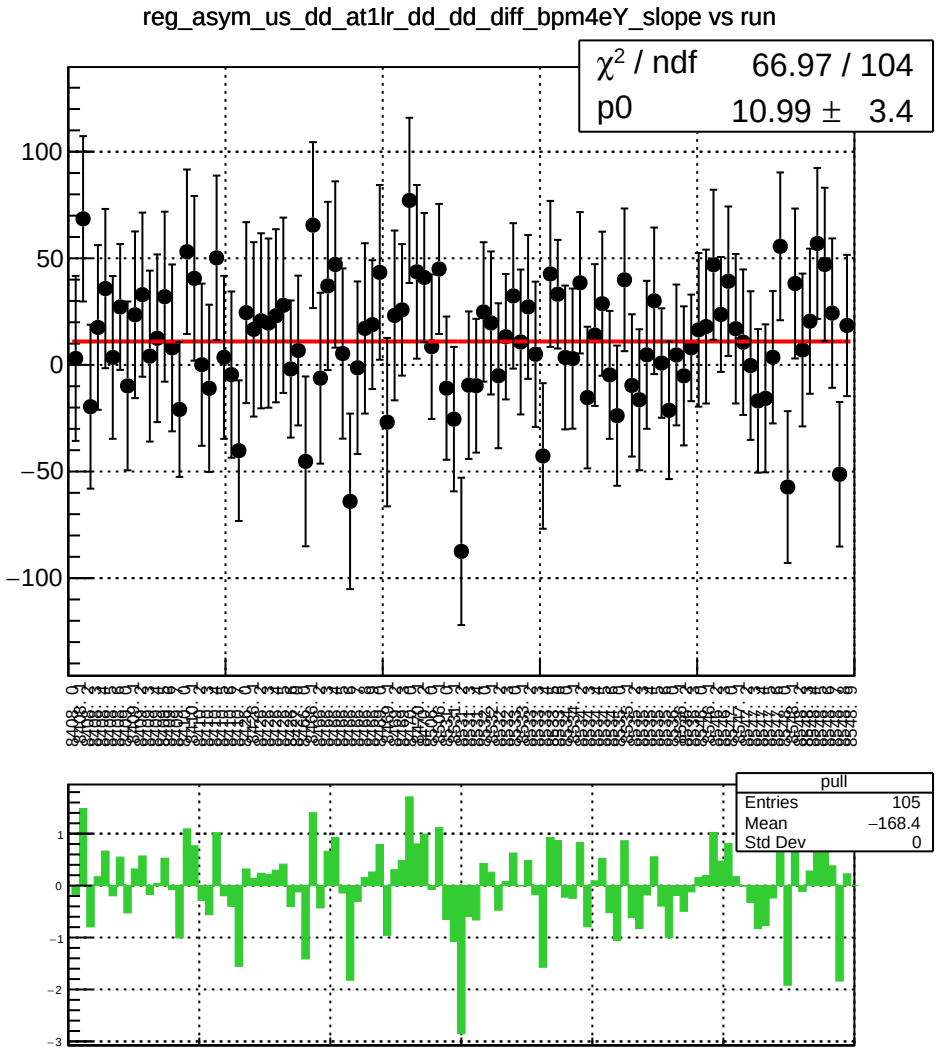

reg_asym_us_dd_at1lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 80.52 / 104
p0 −64.07 ± 1.824
pull
Entries 105
Mean 962.8
Std Dev 0

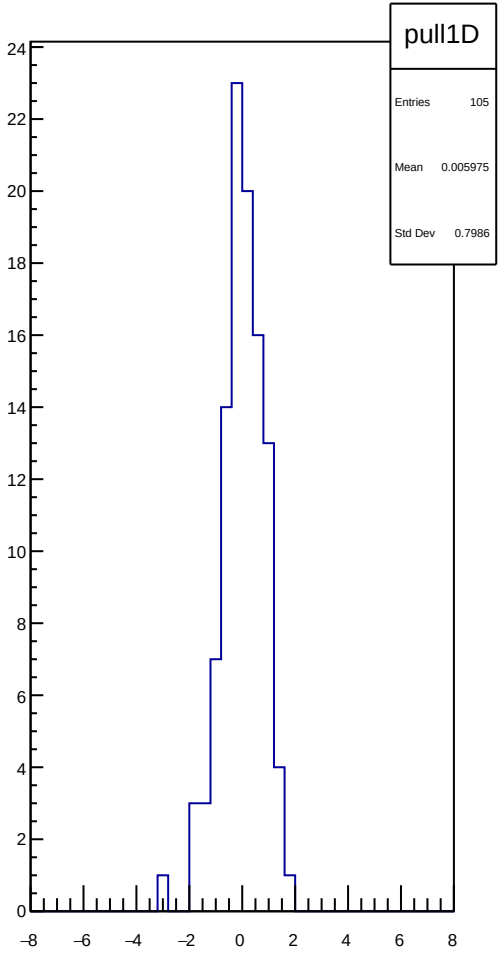

pull1D
Entries 105
Mean −0.007558
Std Dev 0.8757

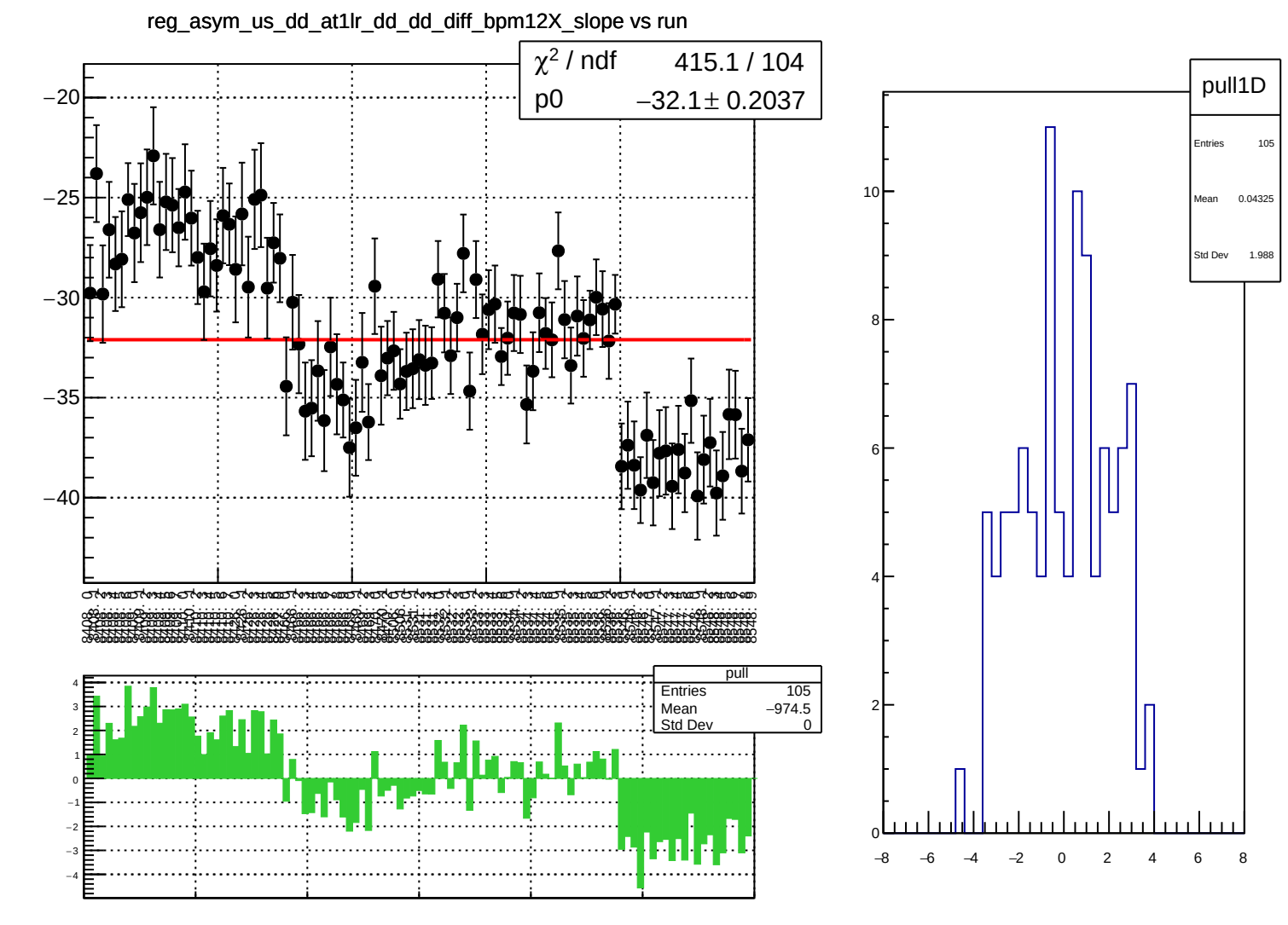

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 65.9 / 104
p0 1.062 ± 3.198
100
50
0
−50
−100
pull
Entries 105
Mean 702.6
Std Dev 0
3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 105
Mean 0.0004943
Std Dev 0.7922
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

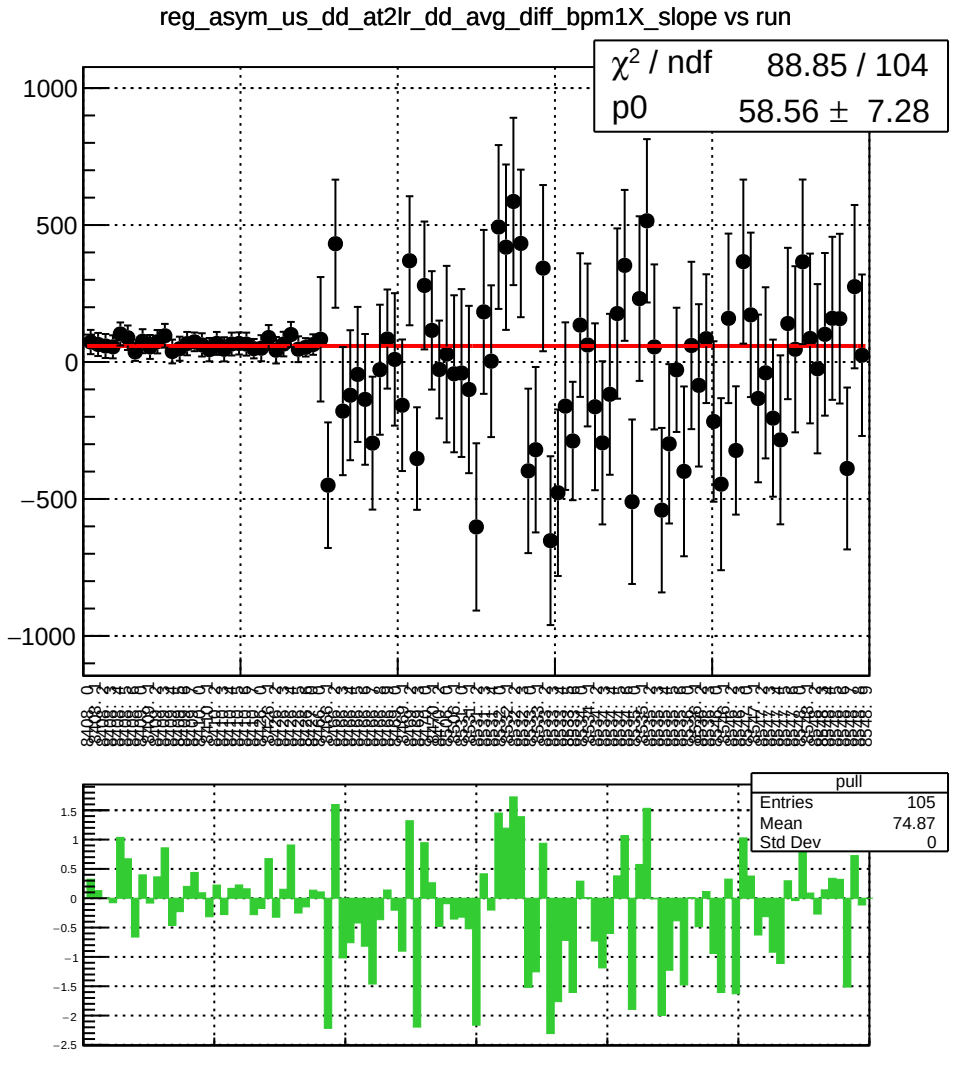

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 73.74 / 104
p0 −48.15 ± 2.007
pull
Entries 105
Mean −705.5
Std Dev 0

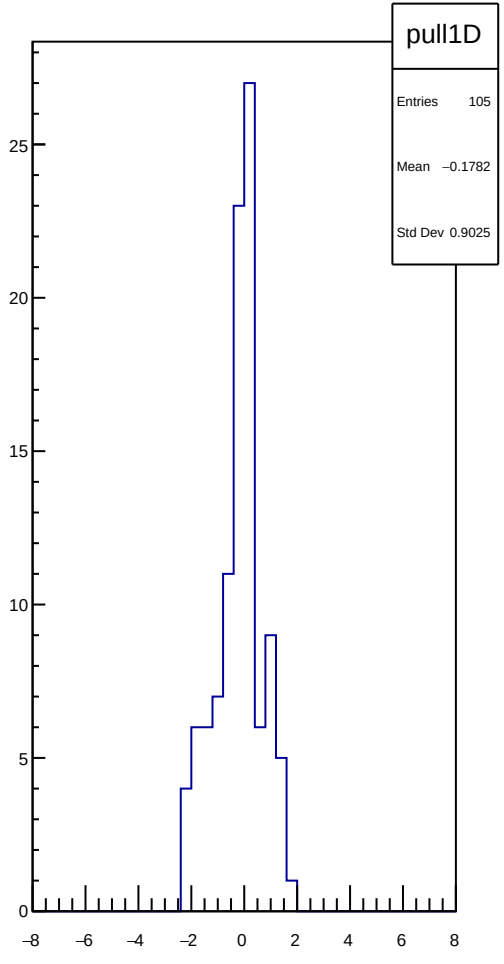

pull1D
Entries 105
Mean −0.00207
Std Dev 0.838

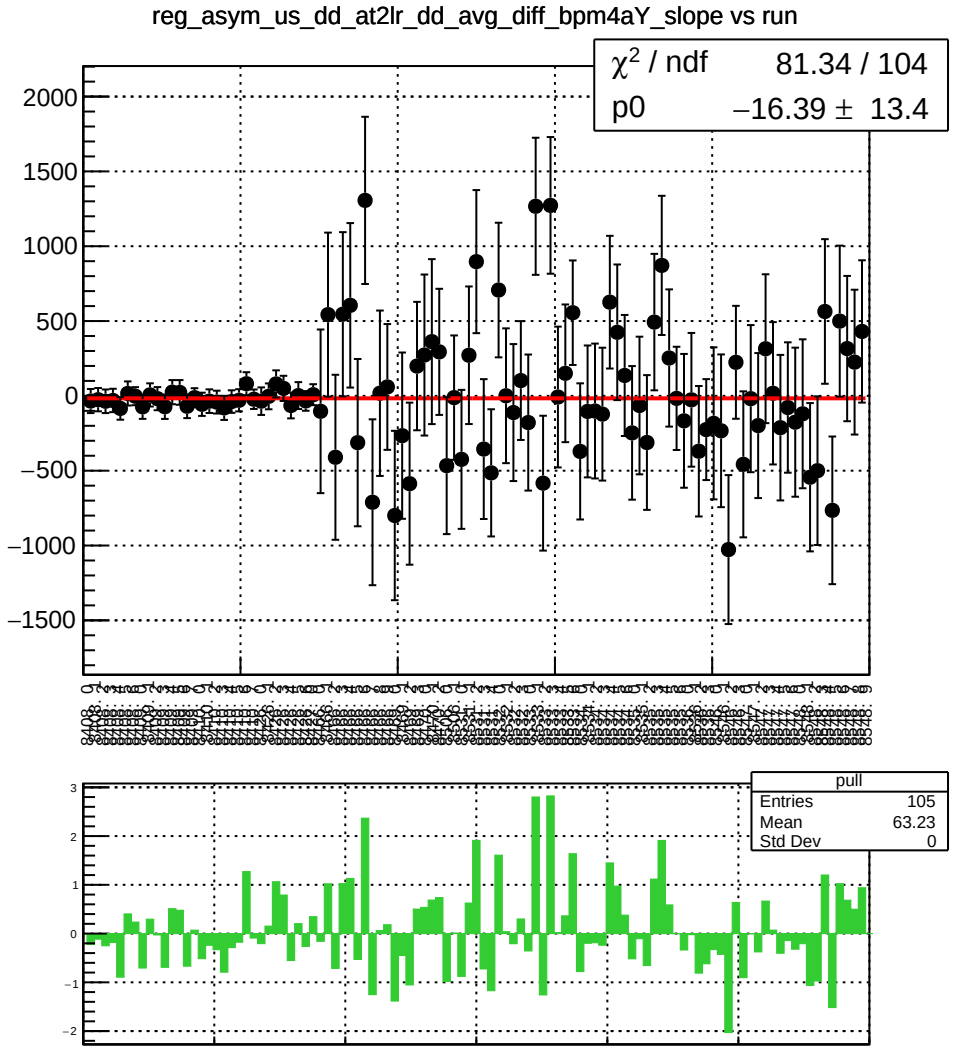

reg_asym_us_dd_at1lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 66.97 / 104
p0 10.99 ± 3.4
100
50
0
−50
−100
pull
Entries 105
Mean −168.4
Std Dev 0
1
0
−1
−2
−3

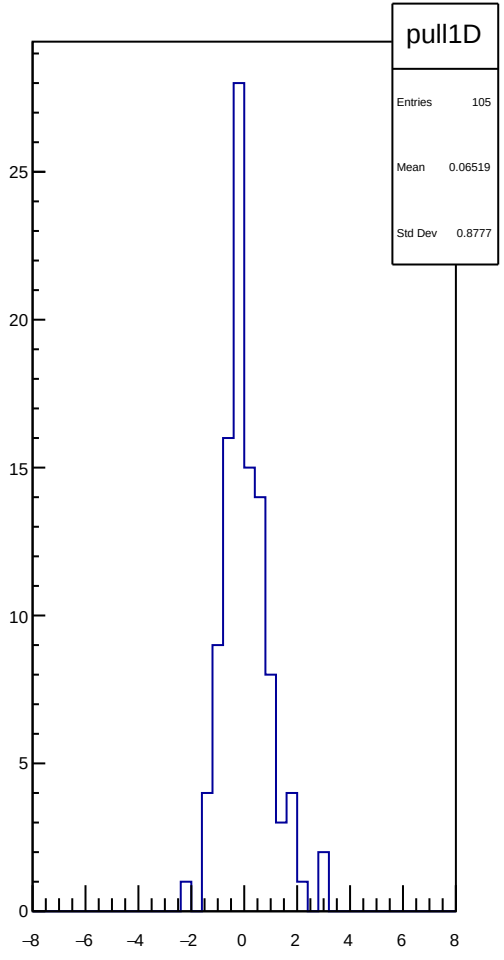

pull1D
Entries 105
Mean 0.005975
Std Dev 0.7986
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

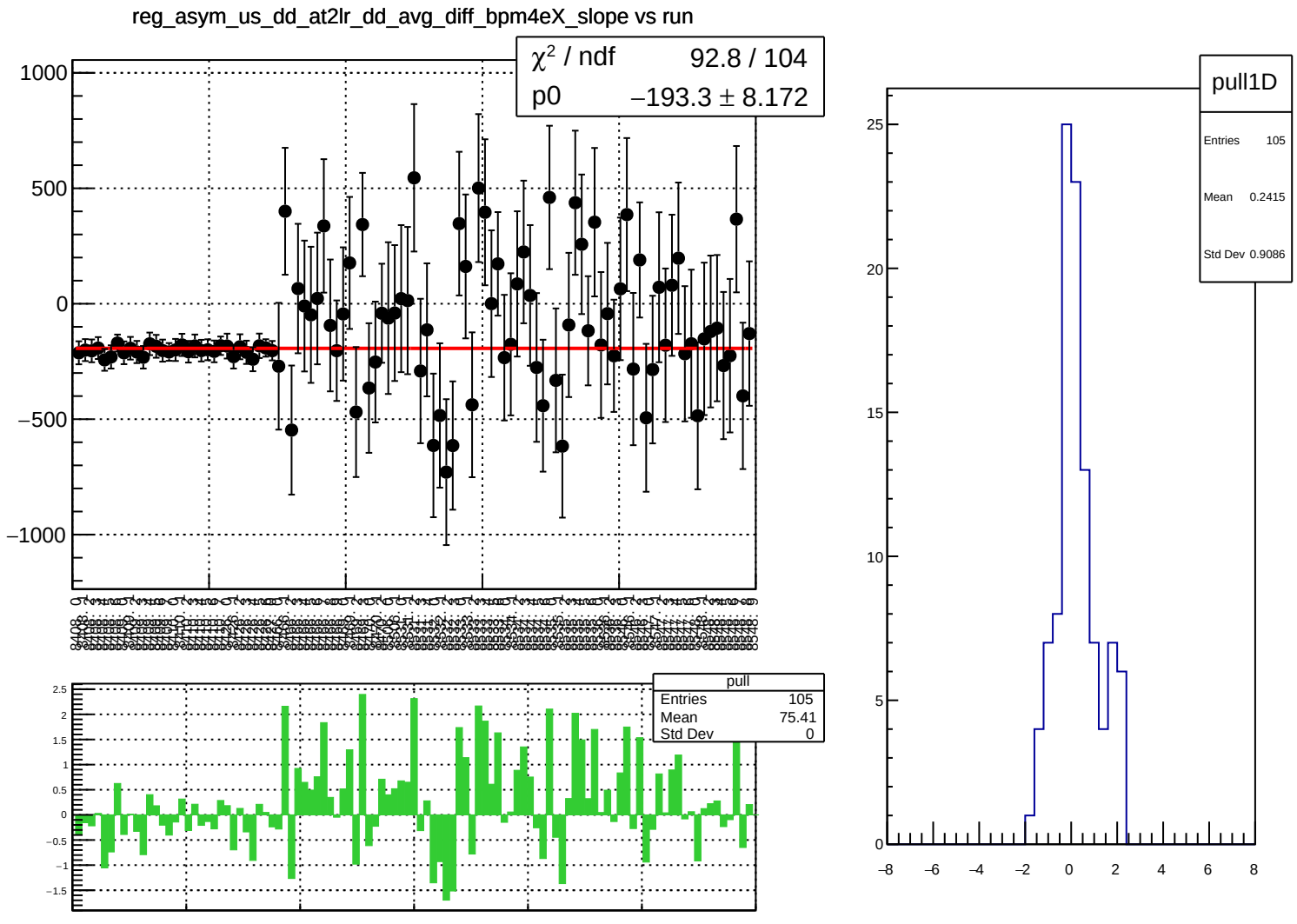

reg_asym_us_dd_at1lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 415.1 / 104
p0 −32.1 ± 0.2037
−20
−25
−30
−35
−40
pull
Entries 105
Mean −974.5
Std Dev 0
4
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 105
Mean 0.04325
Std Dev 1.988
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

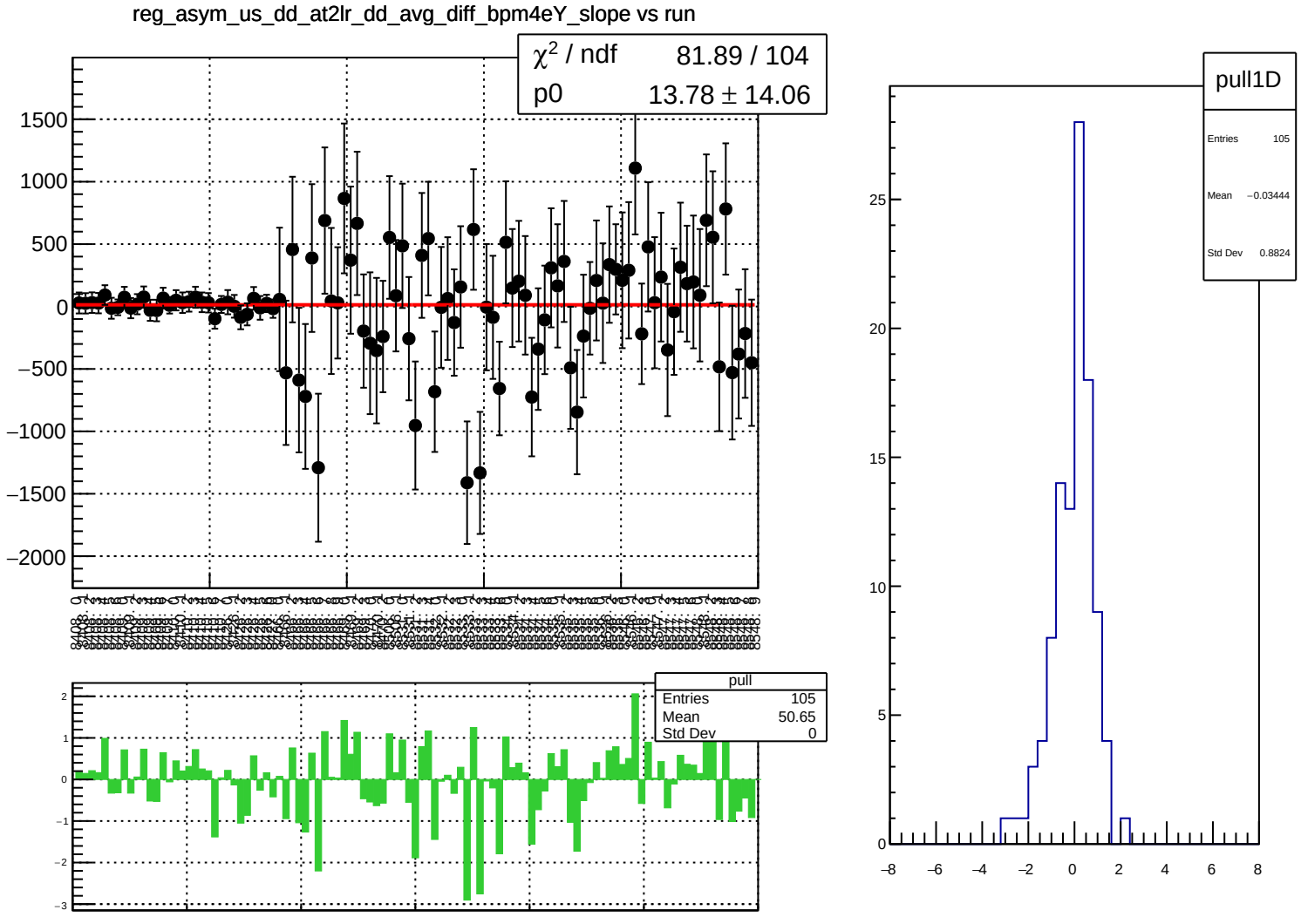

reg_asym_us_dd_at2lr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 88.85 / 104
p0 58.56 ± 7.28
1000
500
0
−500
−1000
pull
Entries 105
Mean 74.87
Std Dev 0
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

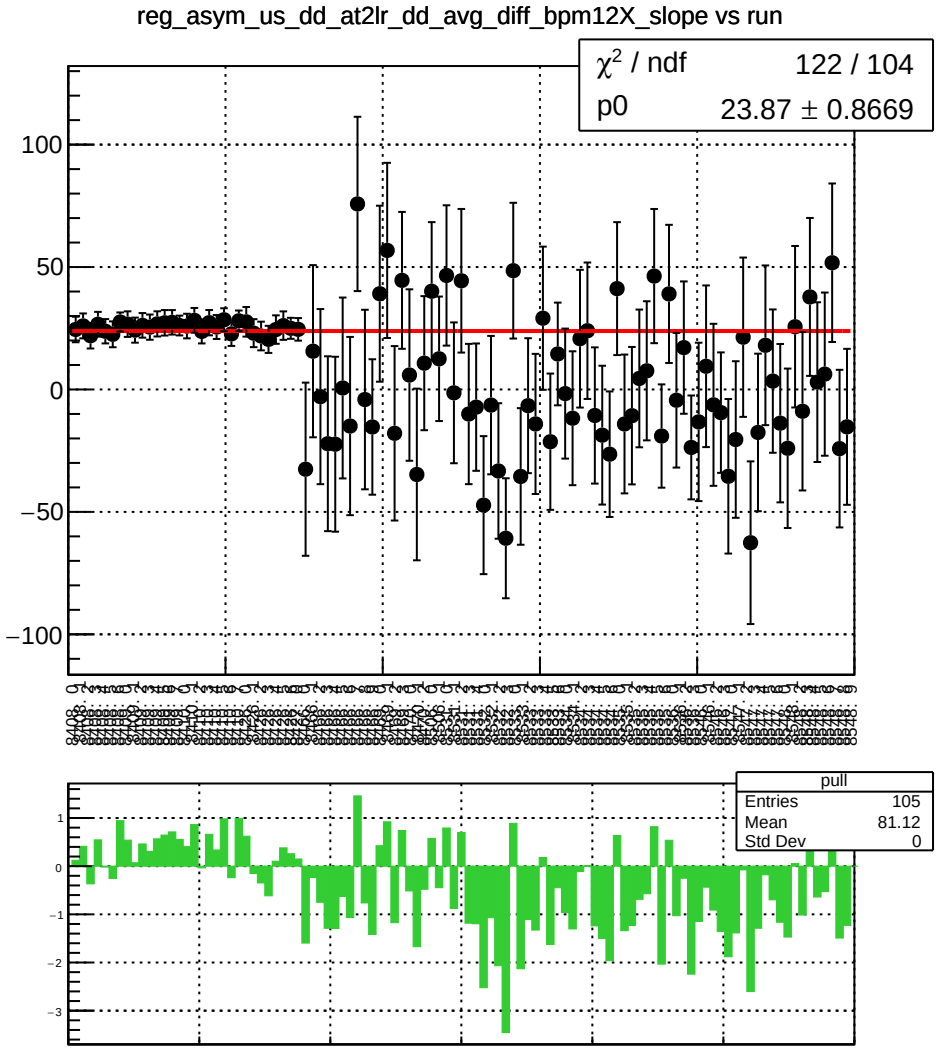

pull1D
Entries 105
Mean −0.1782
Std Dev 0.9025
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

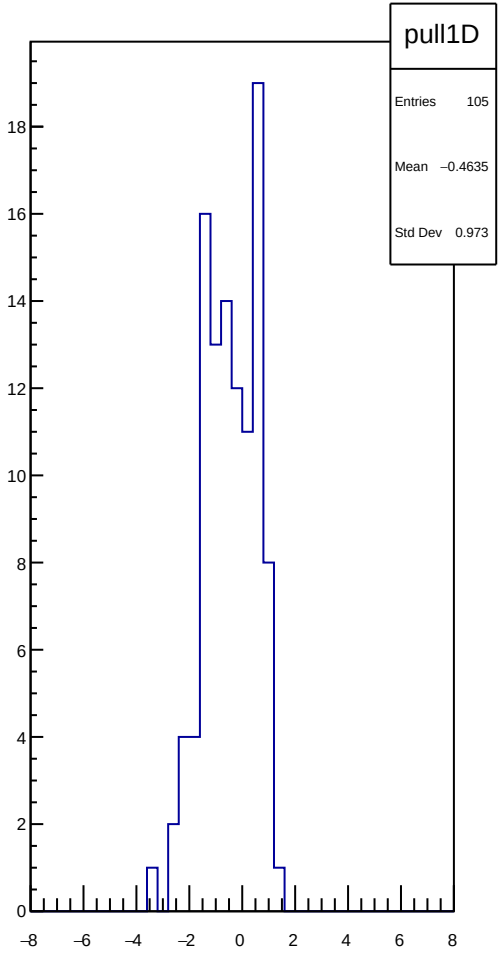

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 81.34 / 104
p0 −16.39 ± 13.4
2000
1500
1000
500
0
−500
−1000
−1500
pull
Entries 105
Mean 63.23
Std Dev 0
3
2
1
0
−1
−2

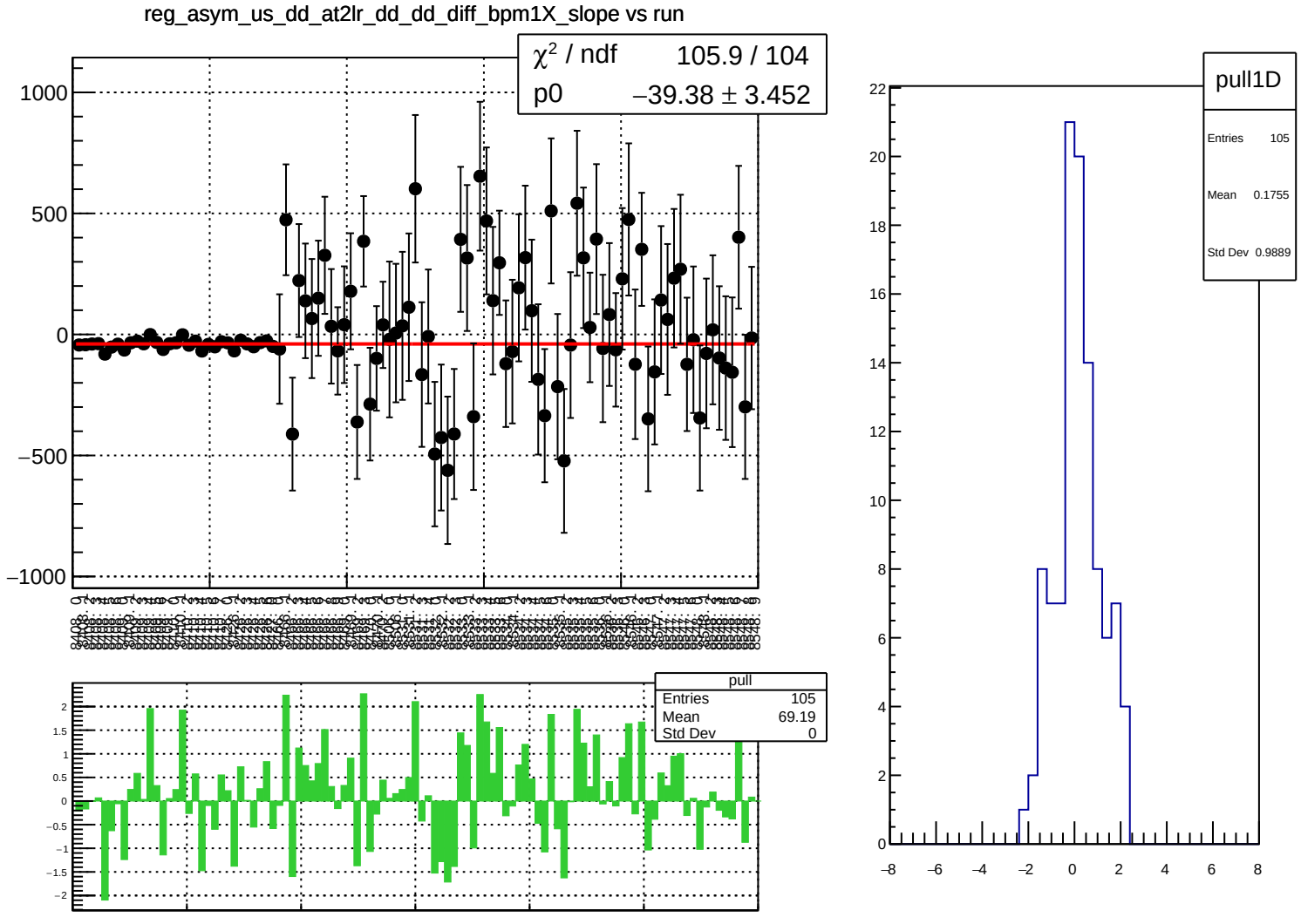

pull1D
Entries 105
Mean 0.06519
Std Dev 0.8777
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

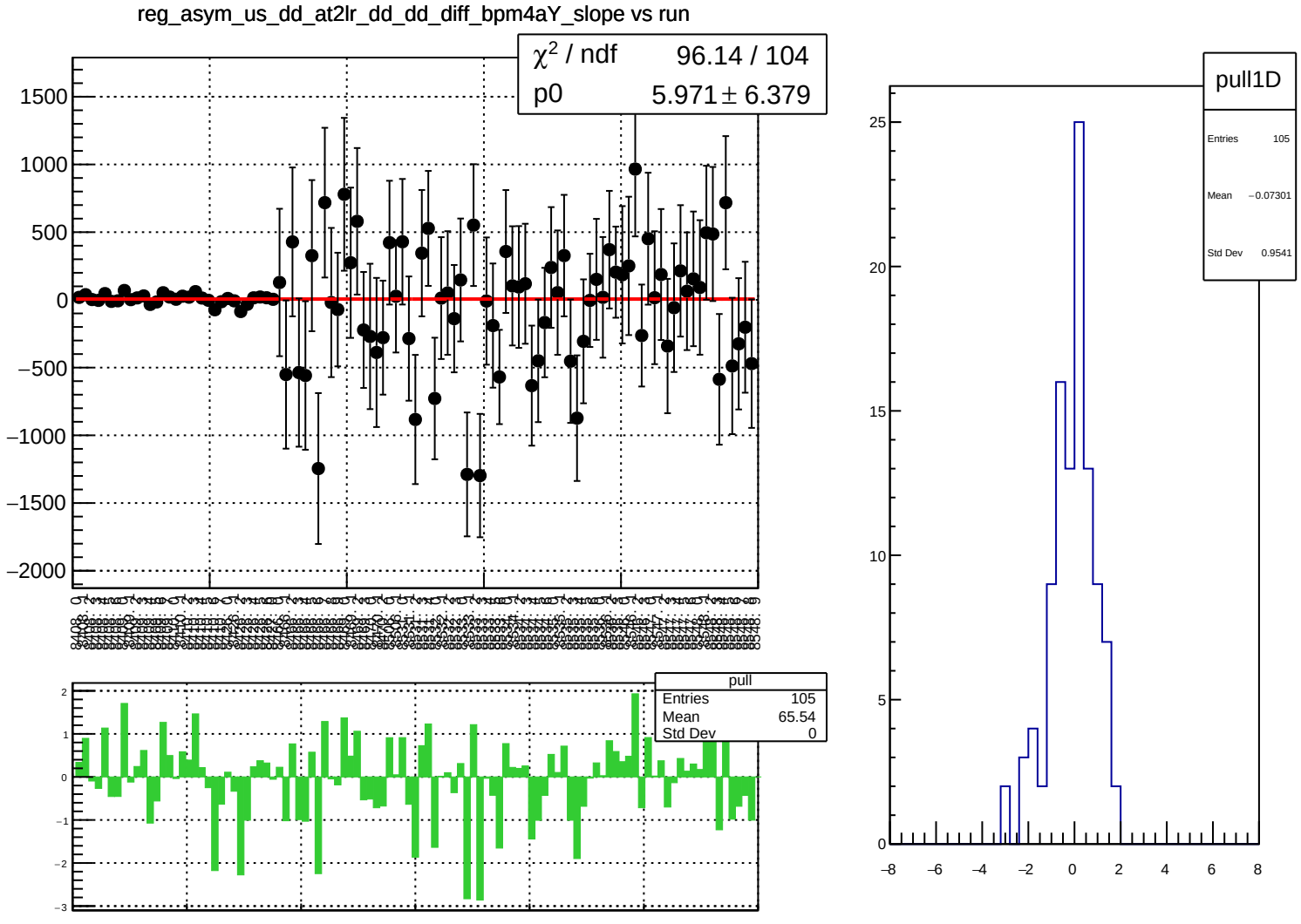

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 92.8 / 104
p0 −193.3 ± 8.172
1000
500
0
−500
−1000
pull
Entries 105
Mean 75.41
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 105
Mean 0.2415
Std Dev 0.9086
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

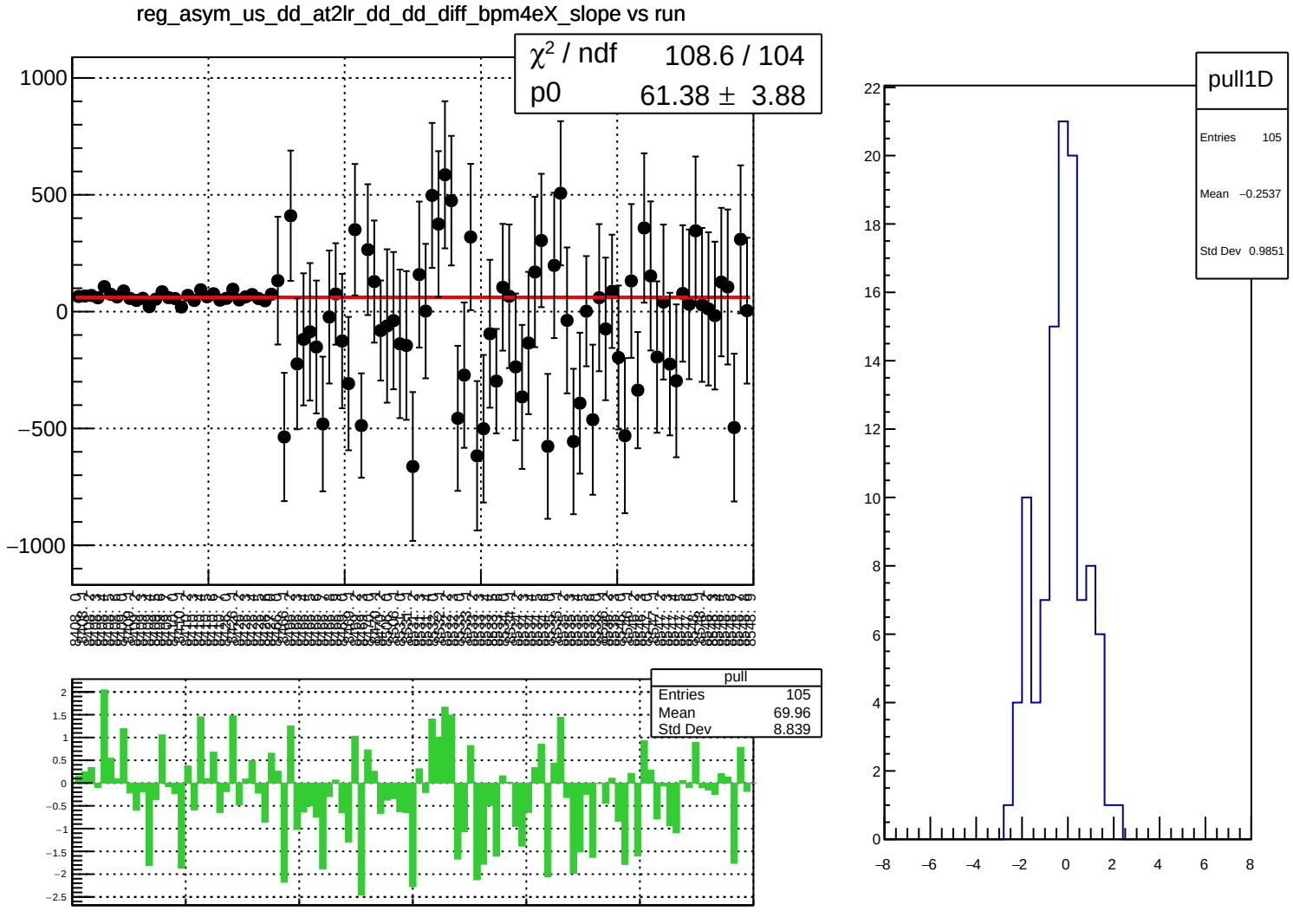

reg_asym_us_dd_at2lr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 81.89 / 104
p0 13.78 ± 14.06
1500
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 105
Mean 50.65
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 105
Mean −0.03444
Std Dev 0.8824
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

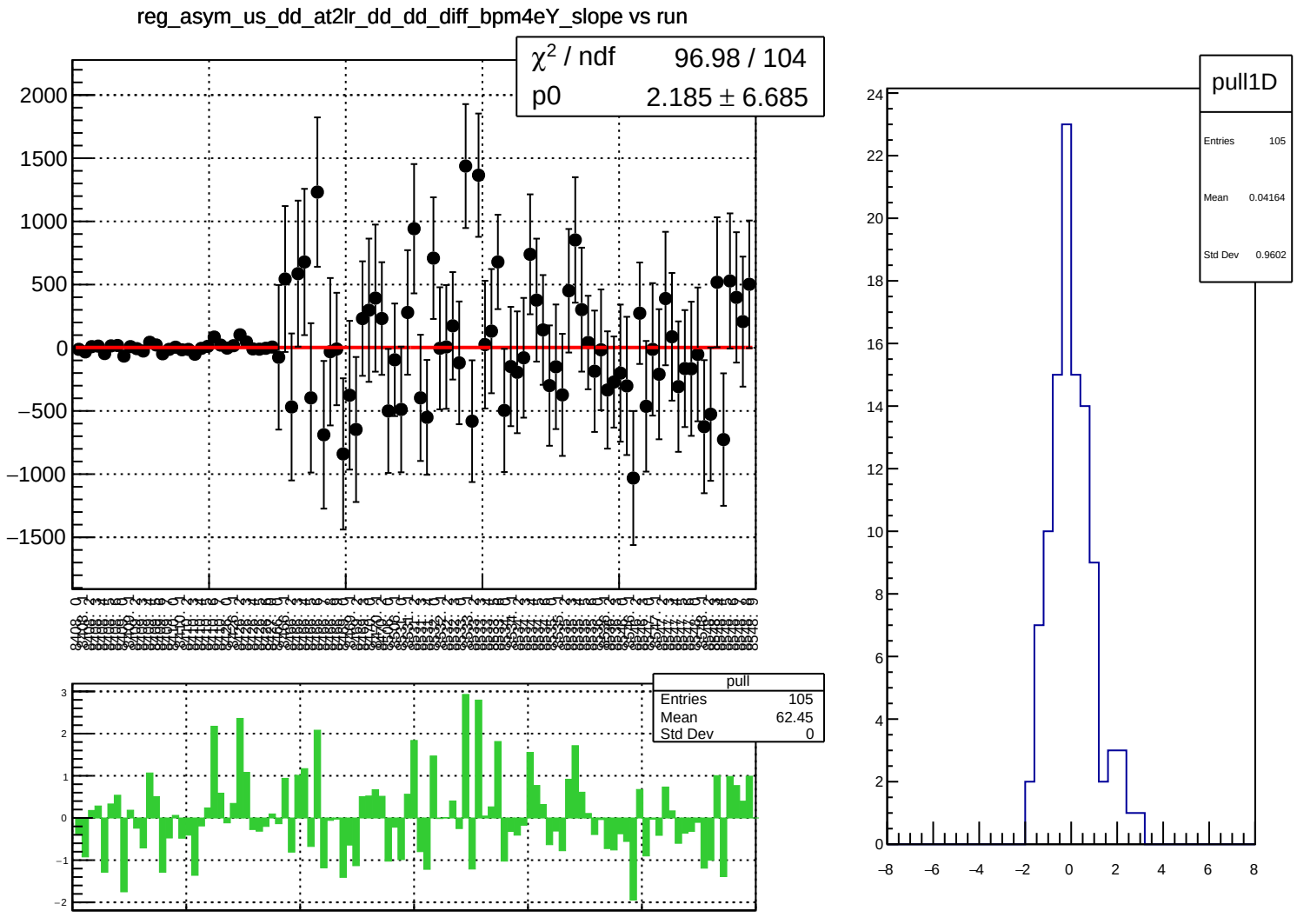

reg_asym_us_dd_at2lr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 122 / 104
p0 23.87 ± 0.8669
100
50
0
−50
−100
pull
Entries 105
Mean 81.12
Std Dev 0
1
0
−1
−2
−3

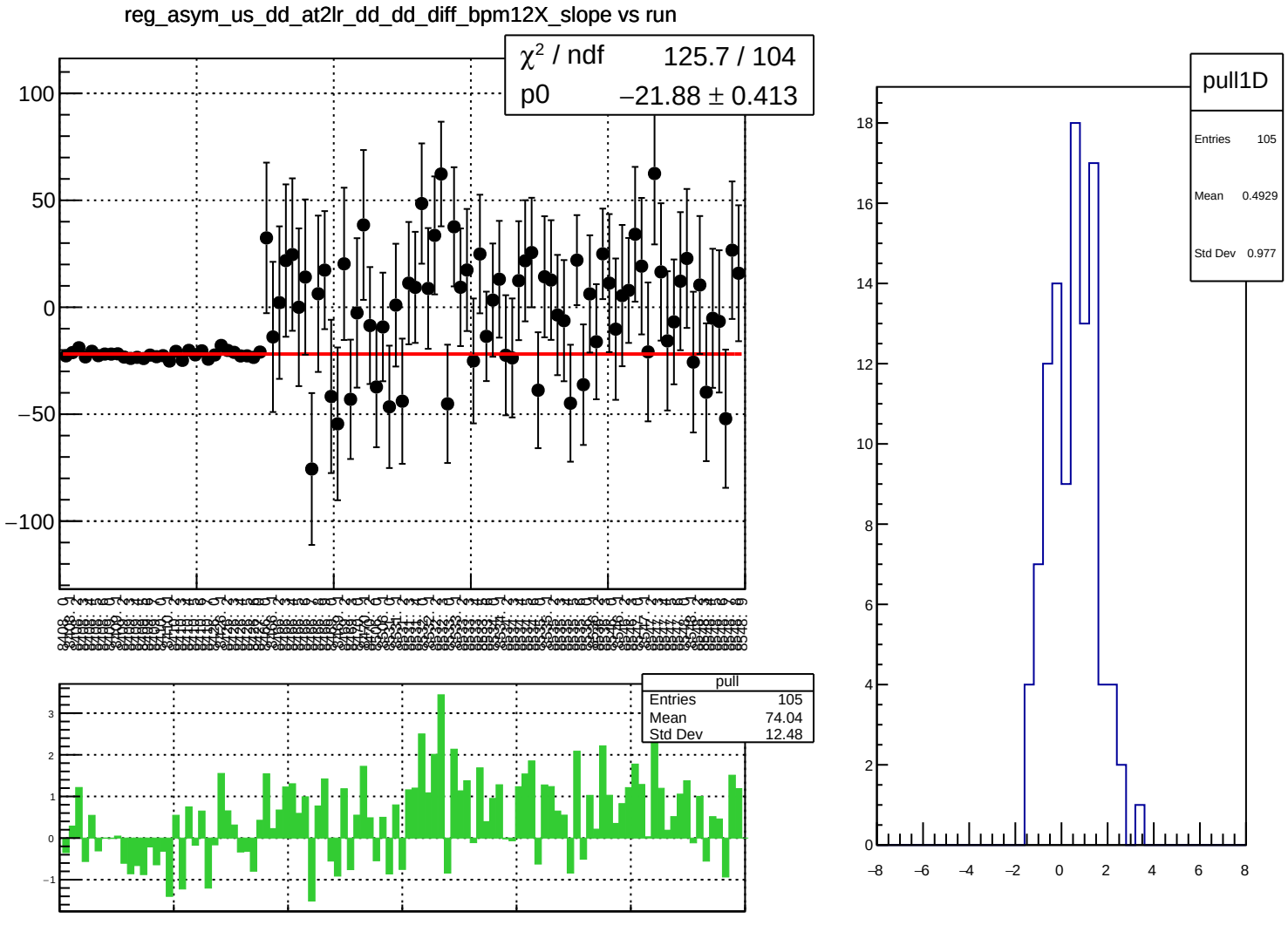

pull1D
Entries 105
Mean −0.4635
Std Dev 0.973
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

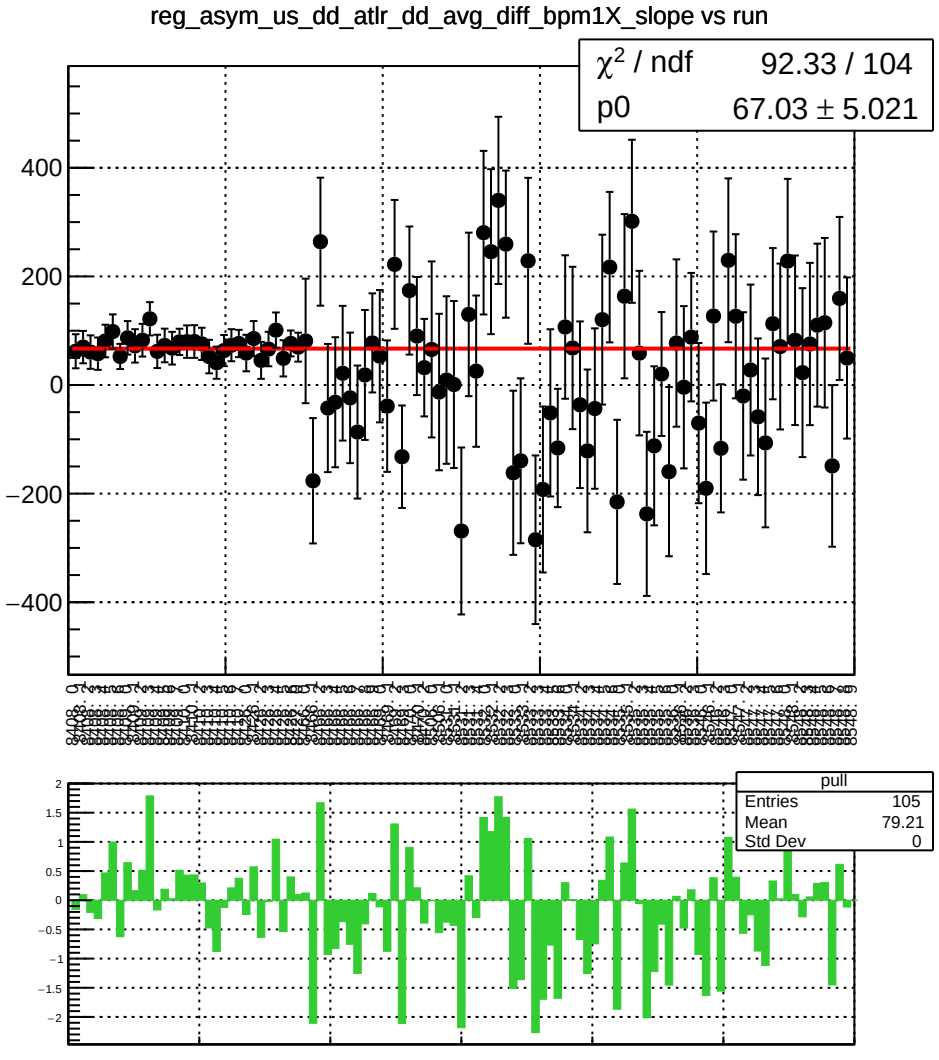

reg_asym_us_dd_at2lr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 105.9 / 104
p0 −39.38 ± 3.452
1000
500
0
−500
−1000
pull
Entries 105
Mean 69.19
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 105
Mean 0.1755
Std Dev 0.9889
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

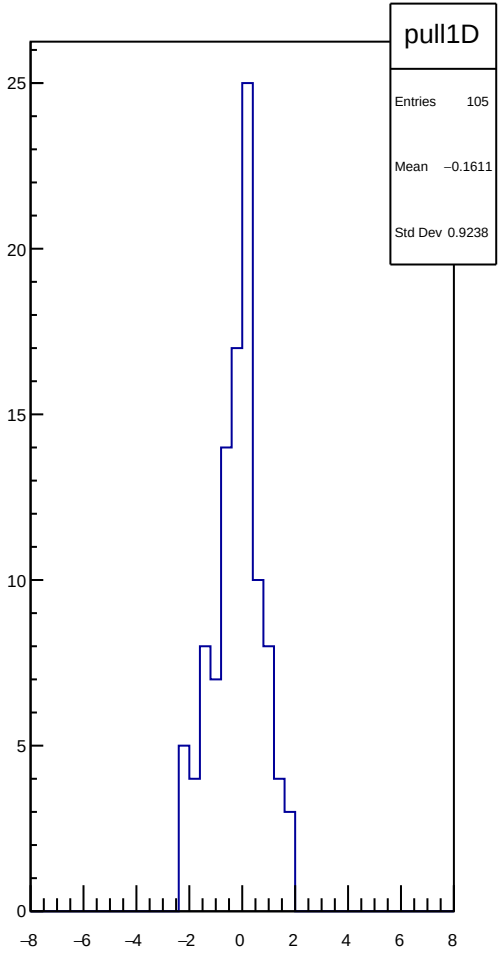

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 96.14 / 104
p0 5.971 ± 6.379
1500
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 105
Mean 65.54
Std Dev 0
2
1
0
−1
−2
−3
pull1D
Entries 105
Mean −0.07301
Std Dev 0.9541
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

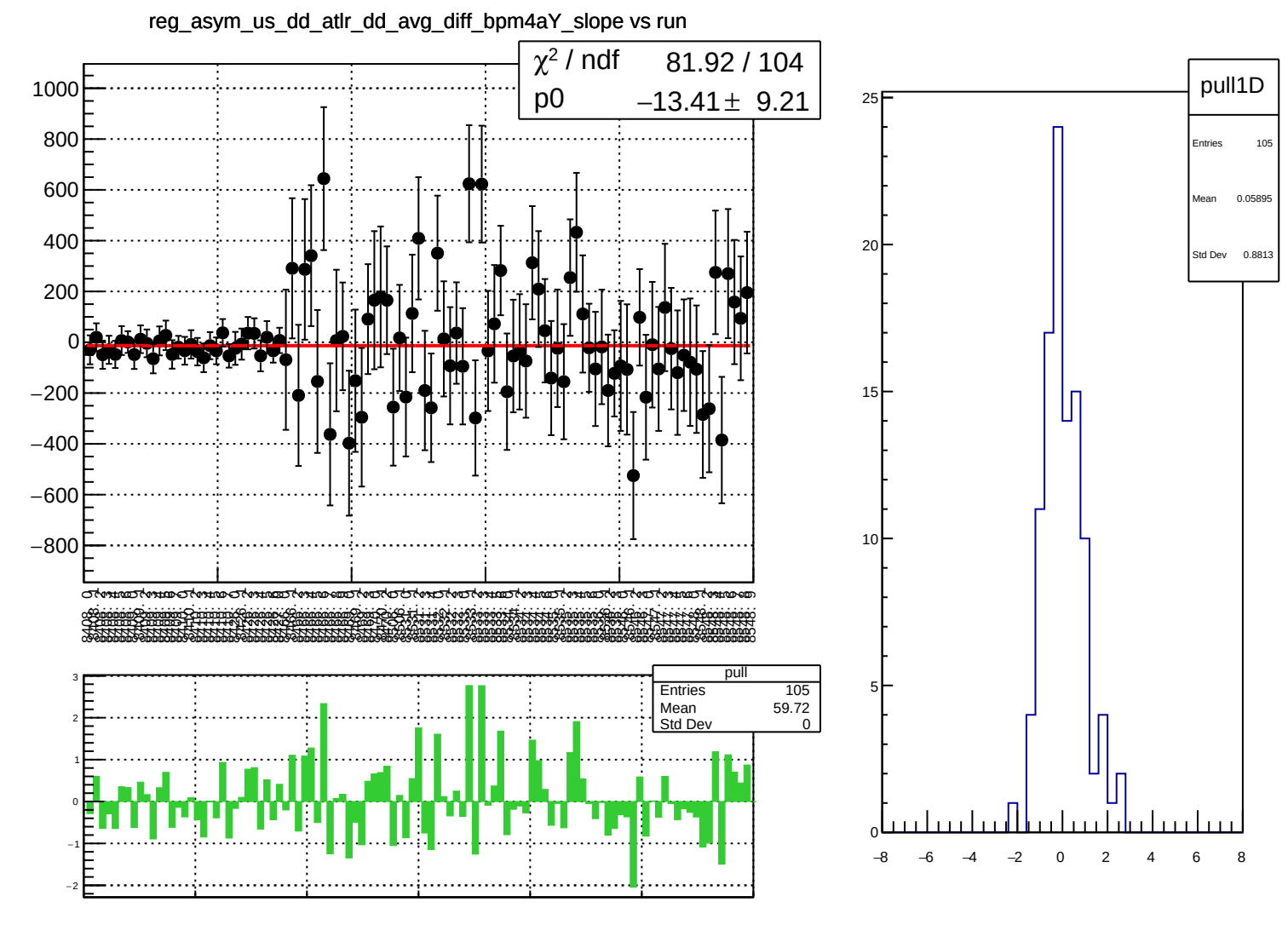

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 108.6 / 104
p0 61.38 ± 3.88
1000
500
0
−500
−1000
pull
Entries 105
Mean 69.96
Std Dev 8.839
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 105
Mean −0.2537
Std Dev 0.9851
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

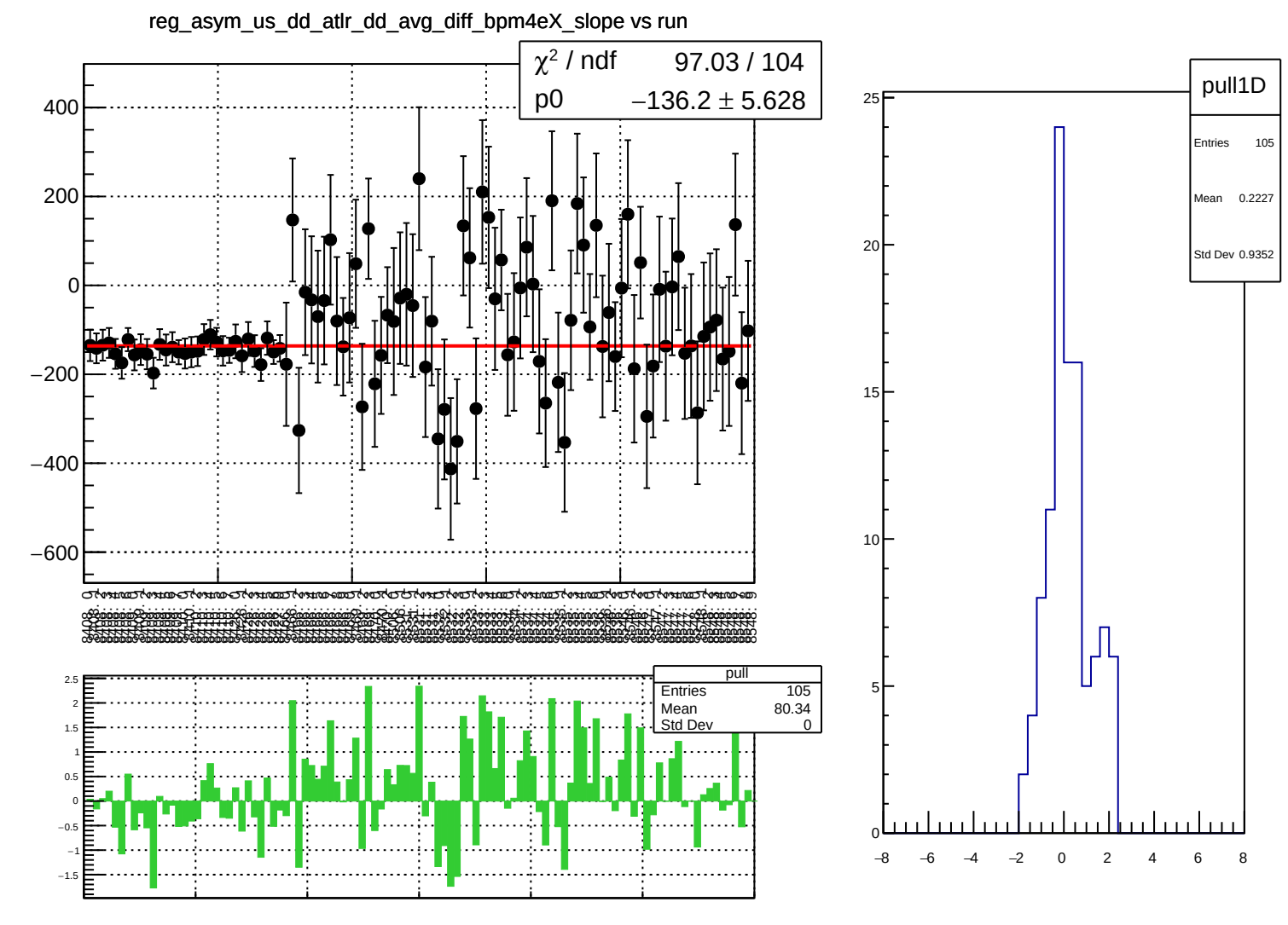

reg_asym_us_dd_at2lr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 96.98 / 104
p0 2.185 ± 6.685
2000
1500
1000
500
0
−500
−1000
−1500
pull
Entries 105
Mean 62.45
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.04164
Std Dev 0.9602
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

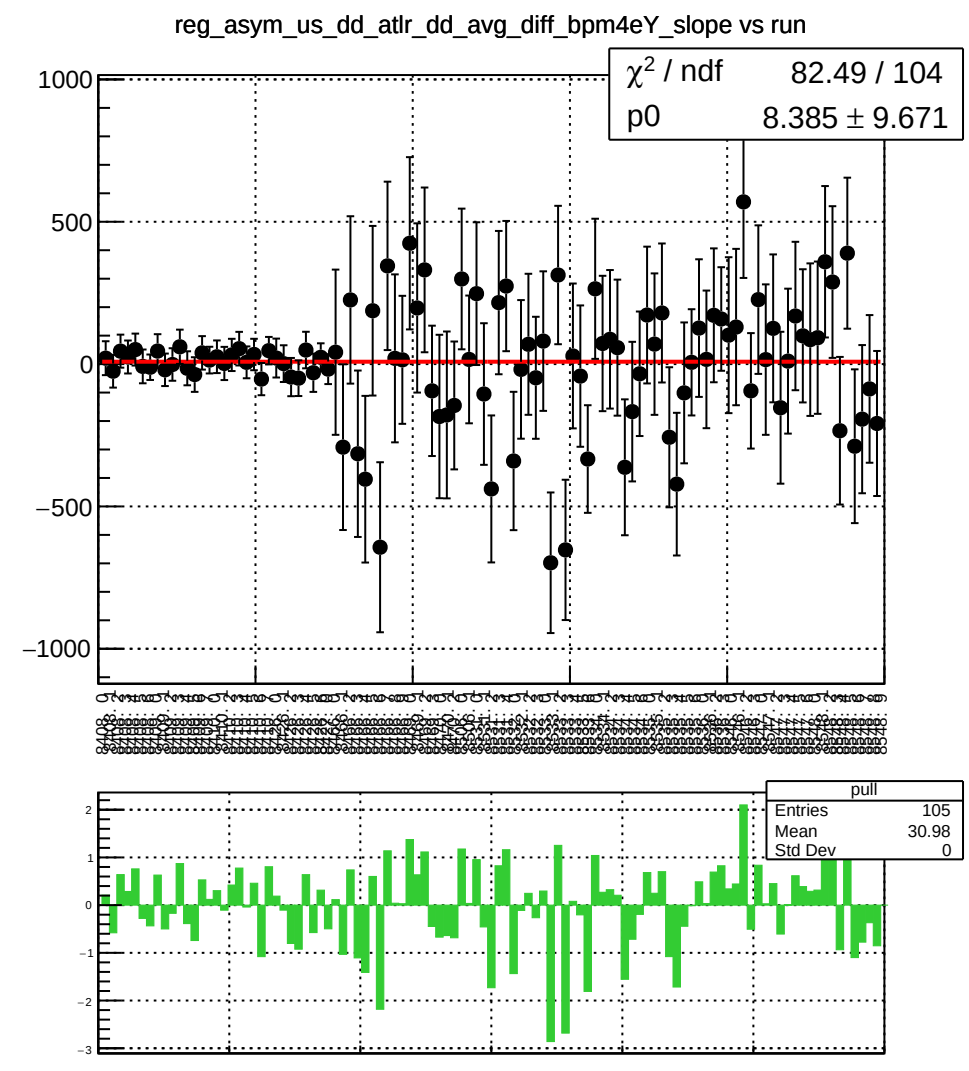

reg_asym_us_dd_at2lr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 125.7 / 104
p0 −21.88 ± 0.413
100
50
0
−50
−100
pull
Entries 105
Mean 74.04
Std Dev 12.48
3
2
1
0
−1
pull1D
Entries 105
Mean 0.4929
Std Dev 0.977
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

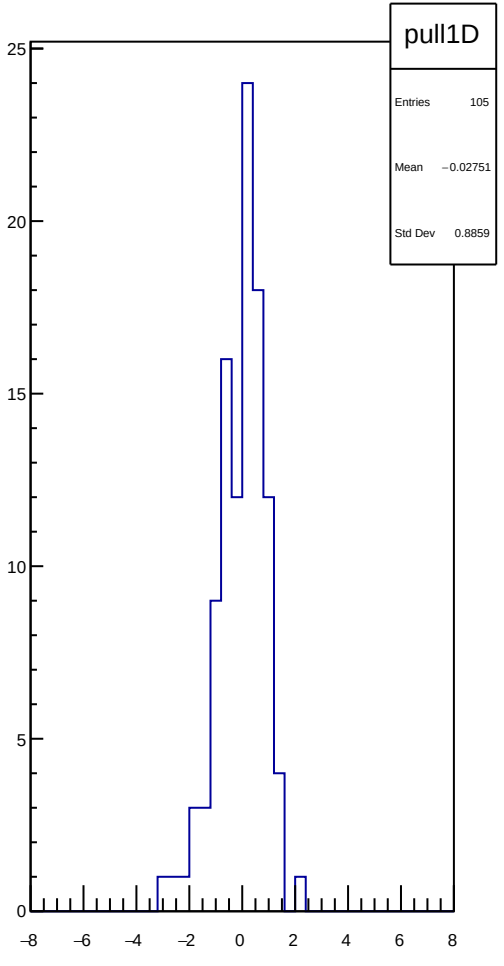

reg_asym_us_dd_atlr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 92.33 / 104
p0 67.03 ± 5.021
400
200
0
−200
−400
pull
Entries 105
Mean 79.21
Std Dev 0
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

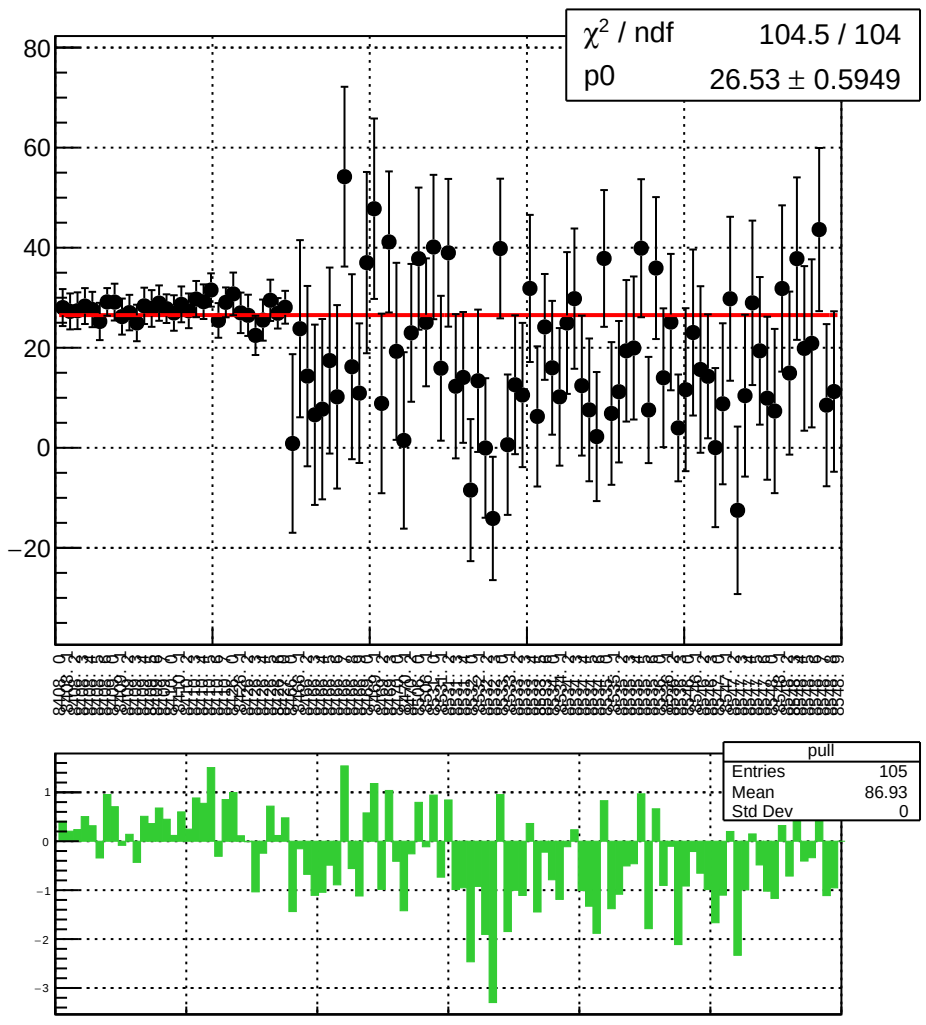

pull1D
Entries 105
Mean −0.1611
Std Dev 0.9238
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

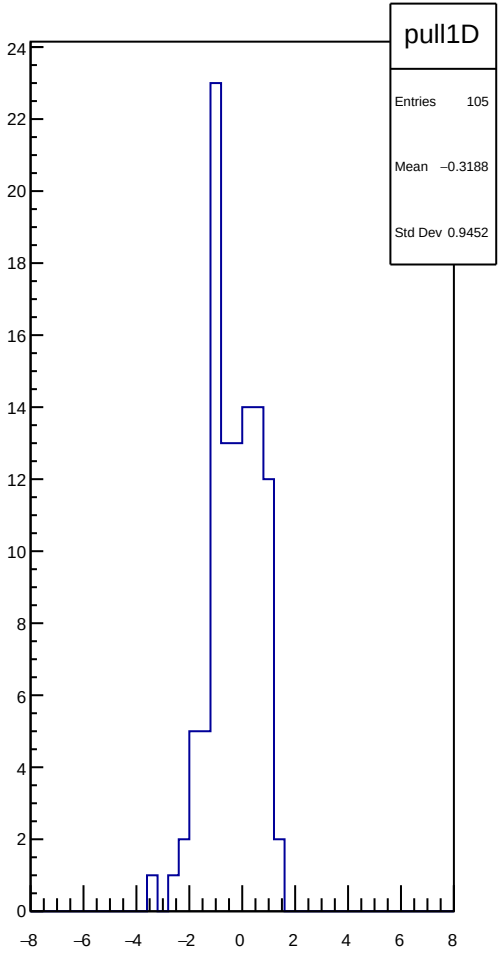

reg_asym_us_dd_atlr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 81.92 / 104
p0 −13.41 ± 9.21
pull
Entries 105
Mean 59.72
Std Dev 0
pull1D
Entries 105
Mean 0.05895
Std Dev 0.8813

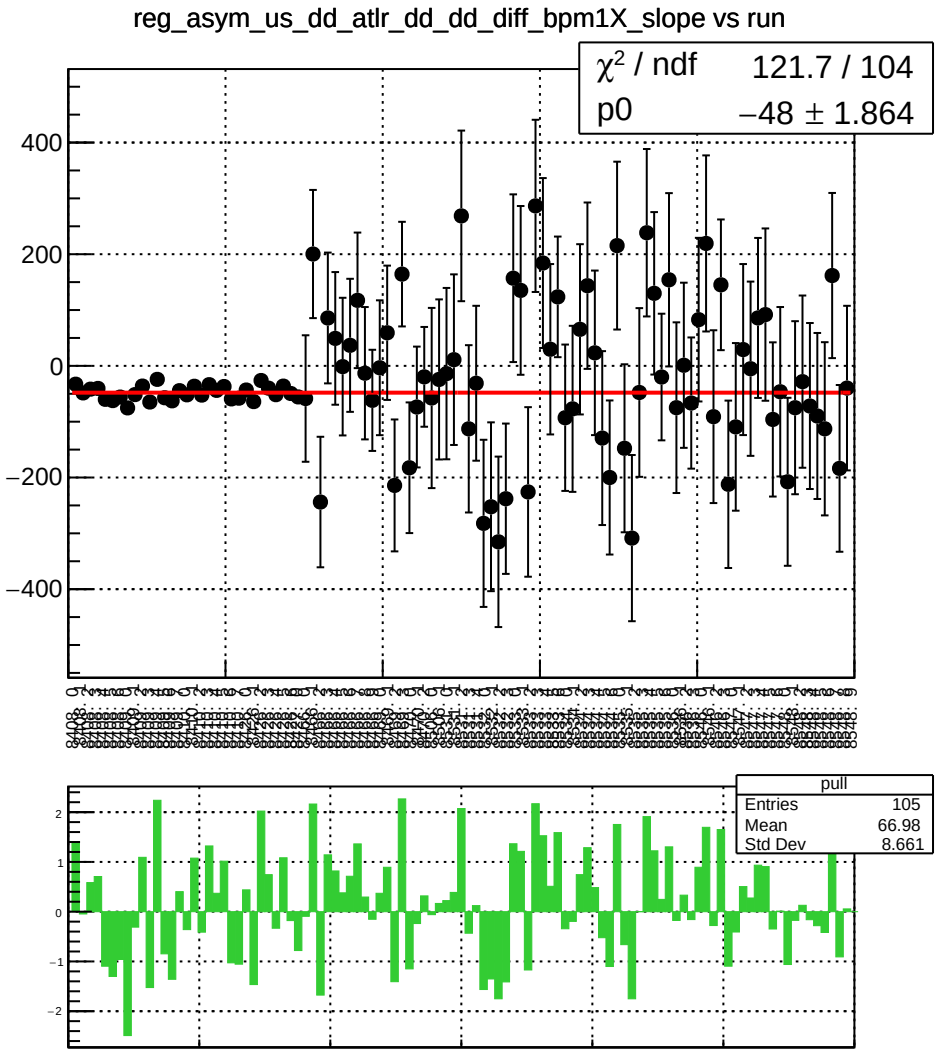

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 97.03 / 104
p0 −136.2 ± 5.628
400
200
0
−200
−400
−600
pull
Entries 105
Mean 80.34
Std Dev 0
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 105
Mean 0.2227
Std Dev 0.9352
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

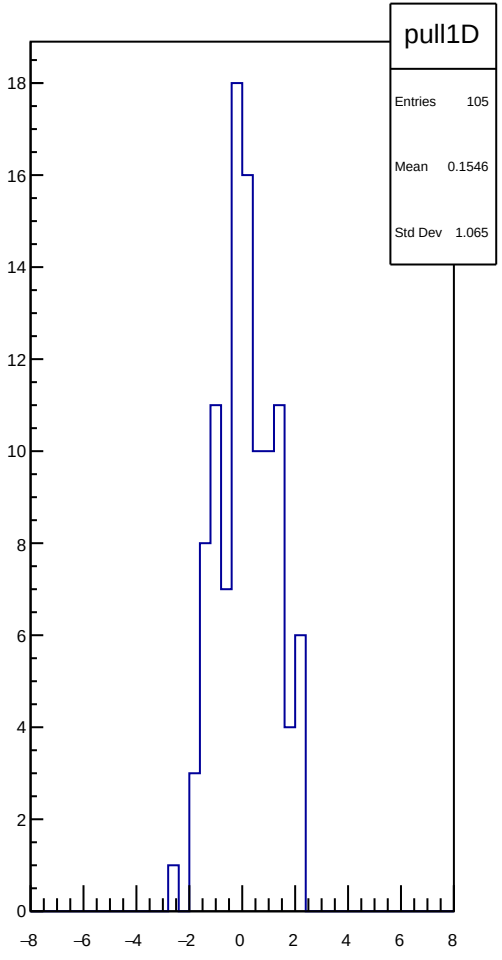

reg_asym_us_dd_atlr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 82.49 / 104
p0 8.385 ± 9.671
1000
500
0
−500
−1000
pull
Entries 105
Mean 30.98
Std Dev 0
2
1
0
−1
−2
−3

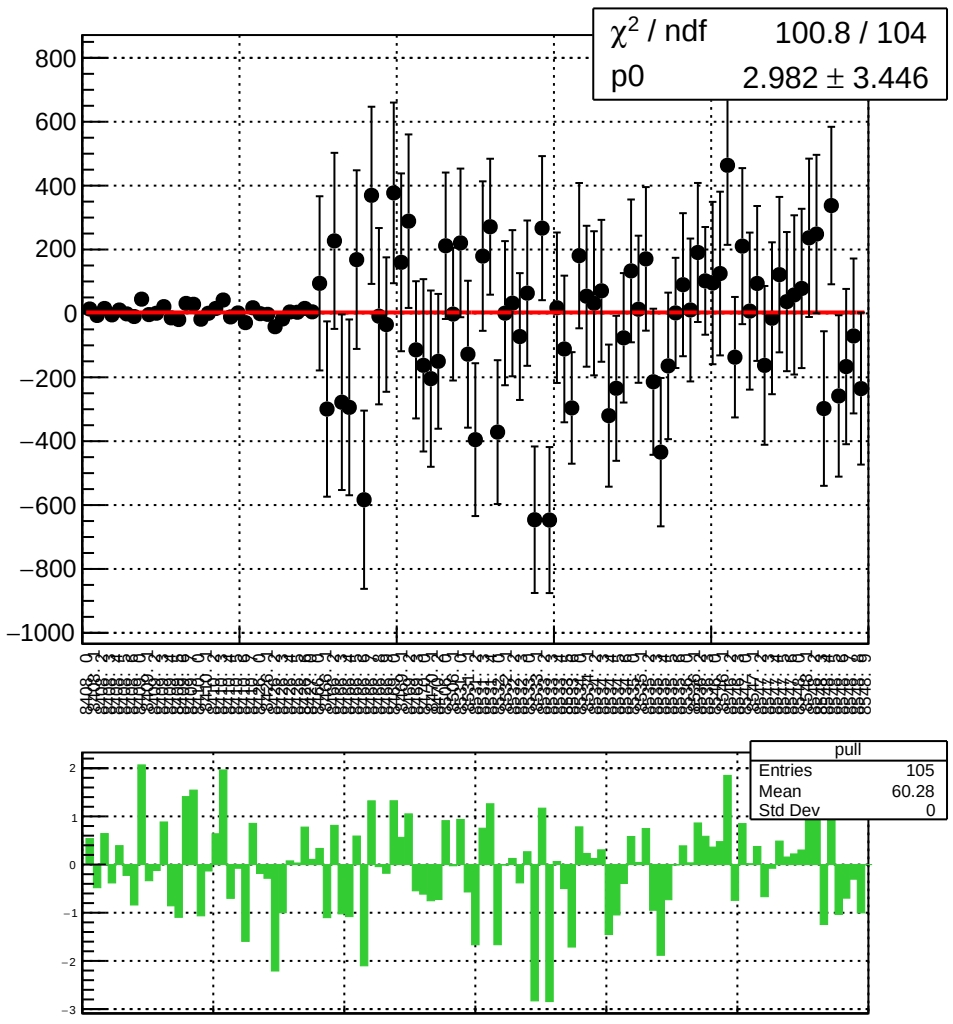

pull1D
Entries 105
Mean −0.02751
Std Dev 0.8859
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

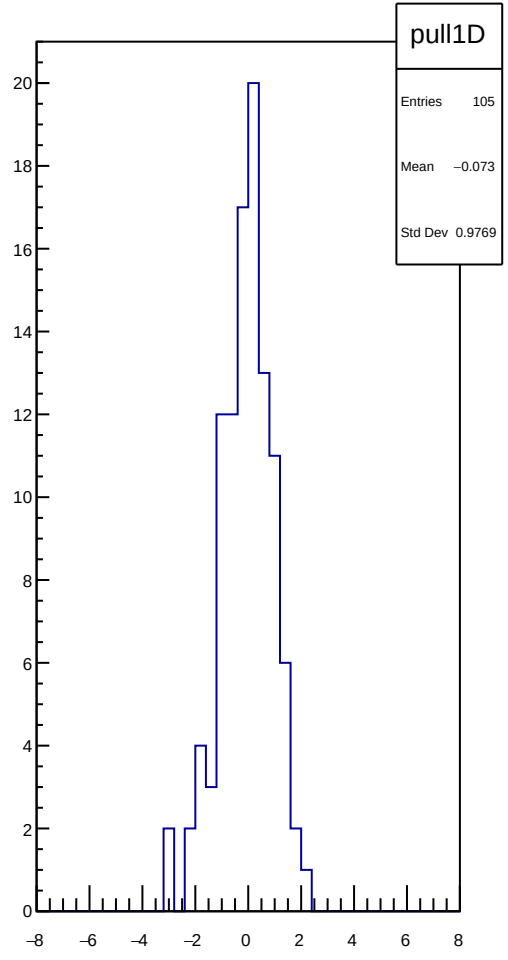

reg_asym_us_dd_atlr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 104.5 / 104
p0 26.53 ± 0.5949
pull
Entries 105
Mean 86.93
Std Dev 0

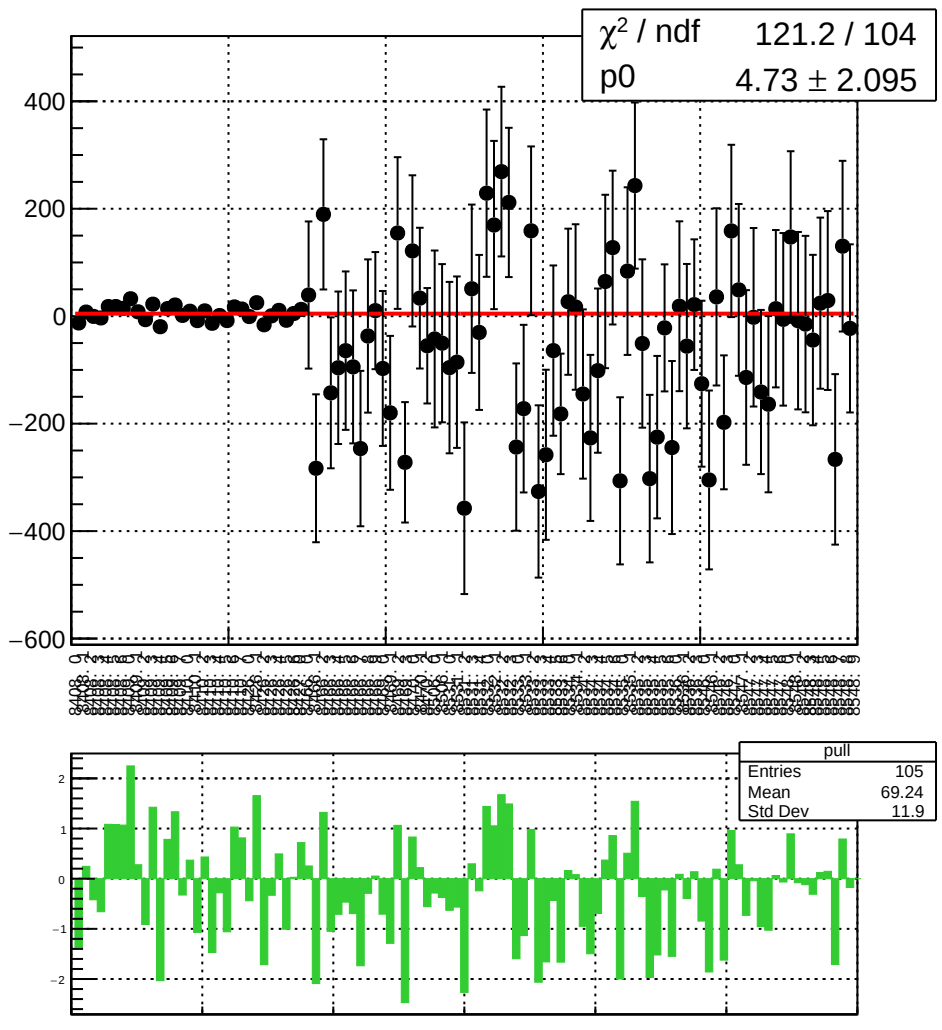

pull1D
Entries 105
Mean −0.3188
Std Dev 0.9452

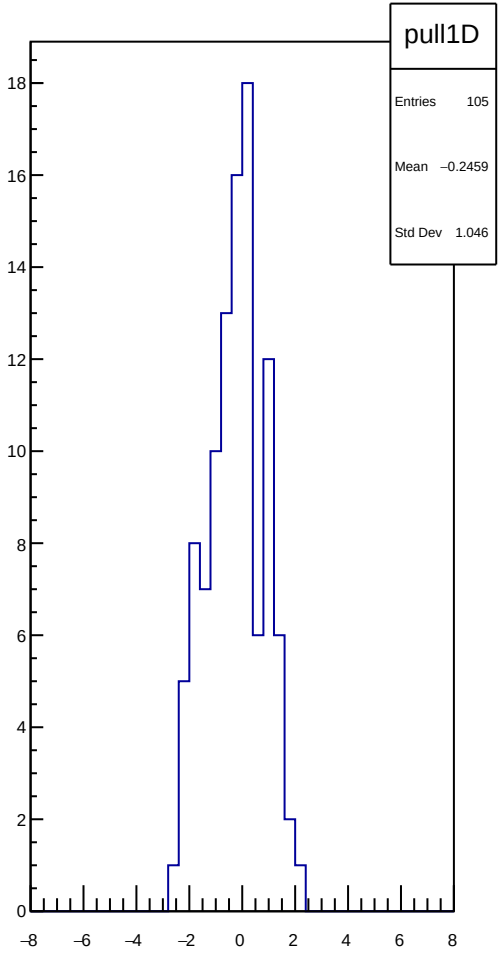

reg_asym_us_dd_atlr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 121.7 / 104
p0 −48 ± 1.864
400
200
0
−200
−400
pull
Entries 105
Mean 66.98
Std Dev 8.661
2
1
0
−1
−2

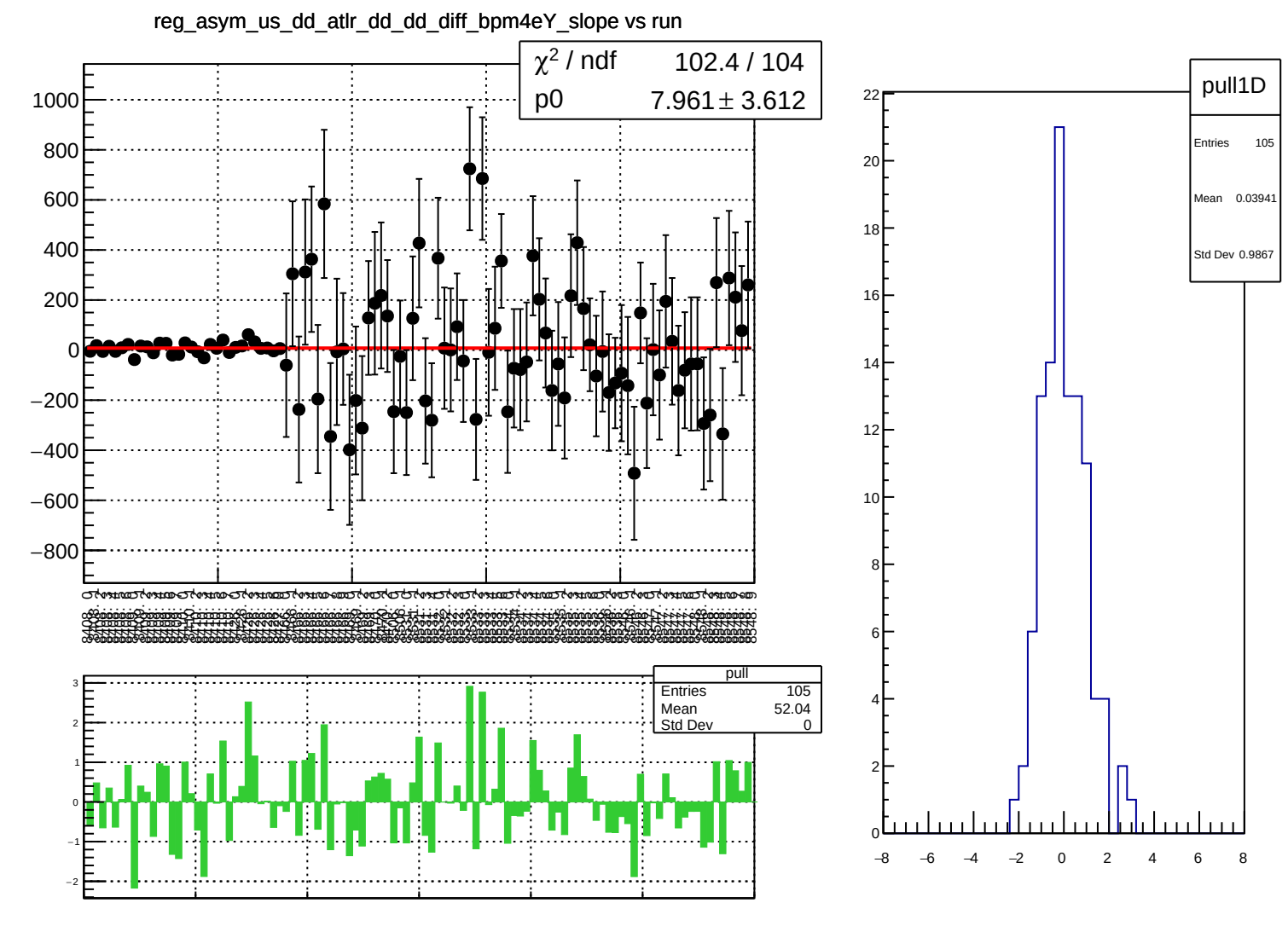

pull1D
Entries 105
Mean 0.1546
Std Dev 1.065
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

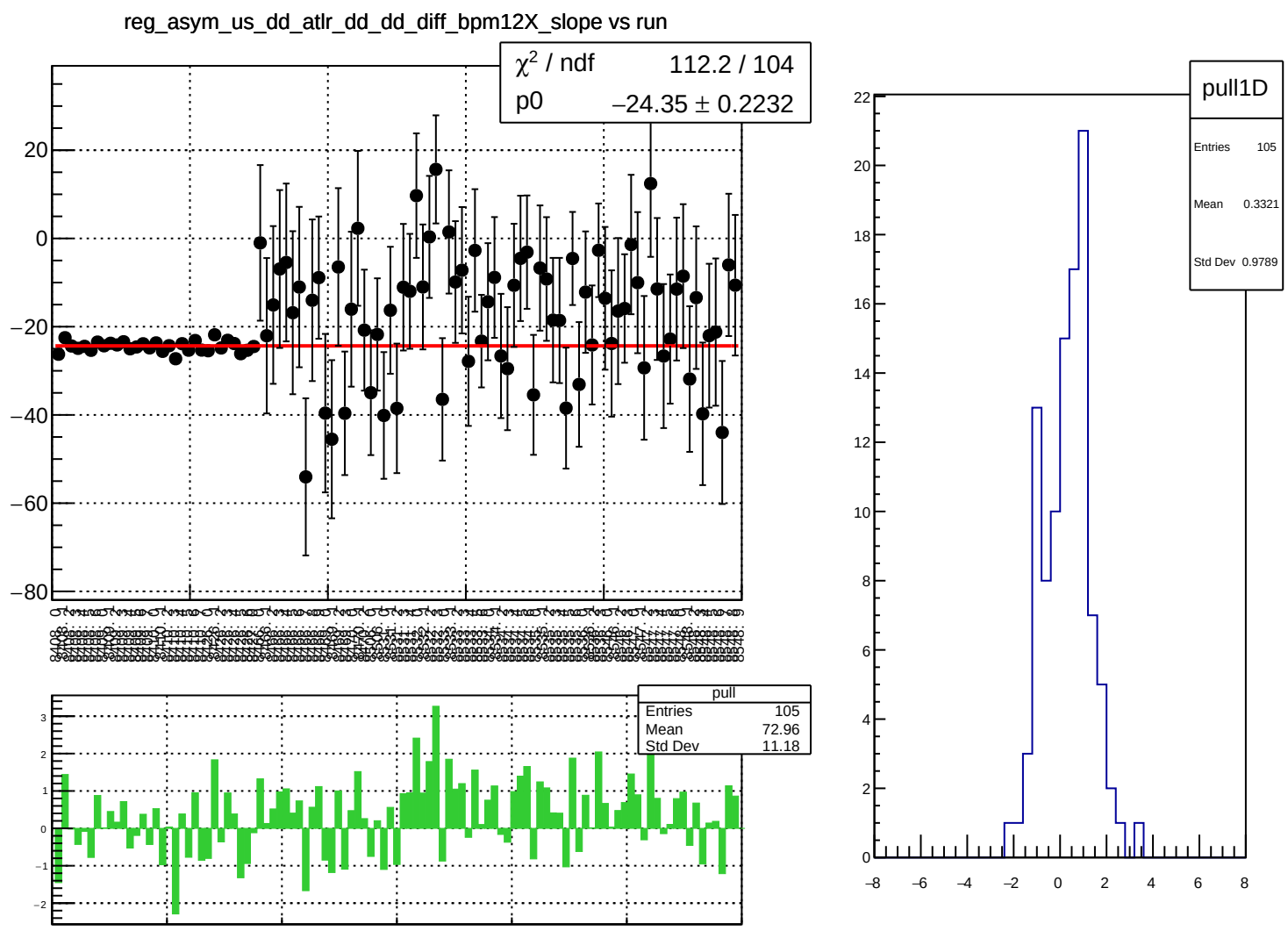

reg_asym_us_dd_atlr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 100.8 / 104
p0 2.982 ± 3.446
800
600
400
200
0
−200
−400
−600
−800
−1000
pull
Entries 105
Mean 60.28
Std Dev 0
2
1
0
−1
−2
−3

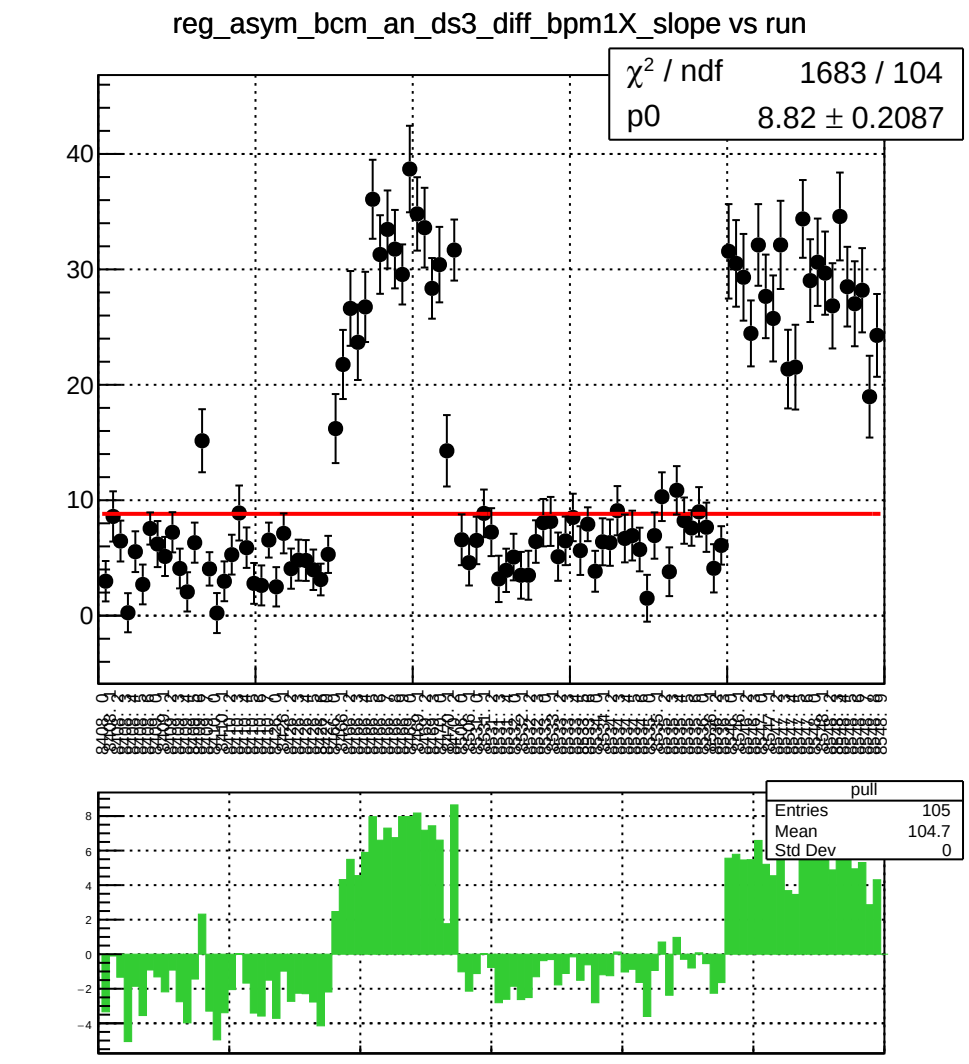

pull1D
Entries 105
Mean −0.073
Std Dev 0.9769
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

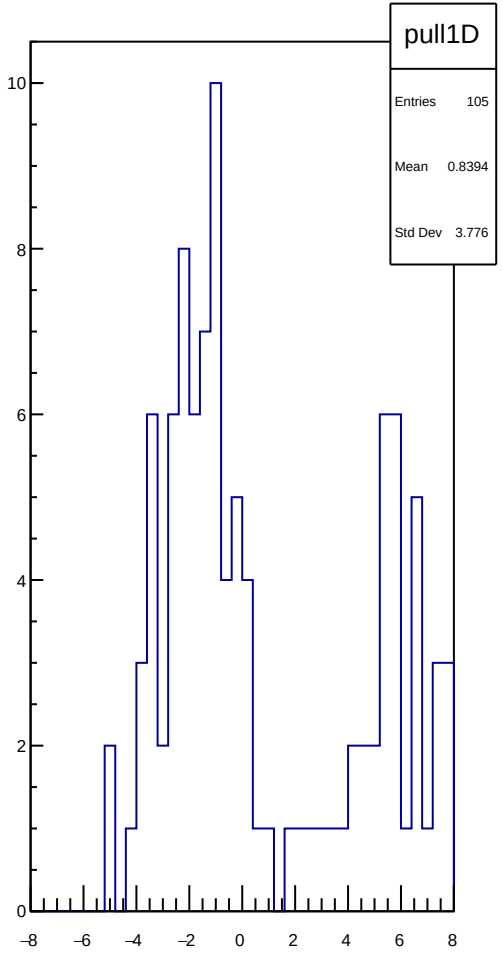

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 121.2 / 104
p0 4.73 ± 2.095
pull
Entries 105
Mean 69.24
Std Dev 11.9

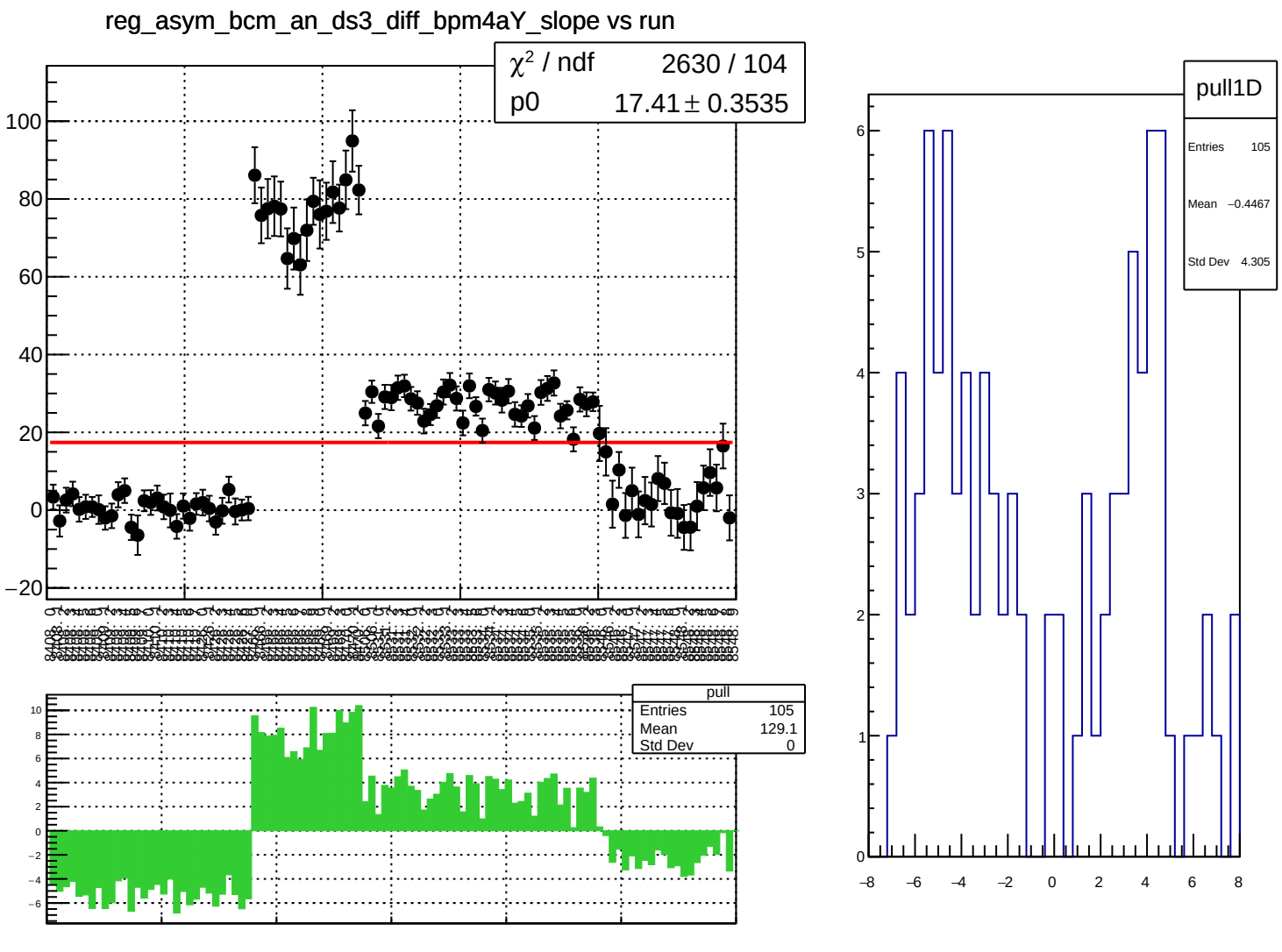

pull1D
Entries 105
Mean −0.2459
Std Dev 1.046

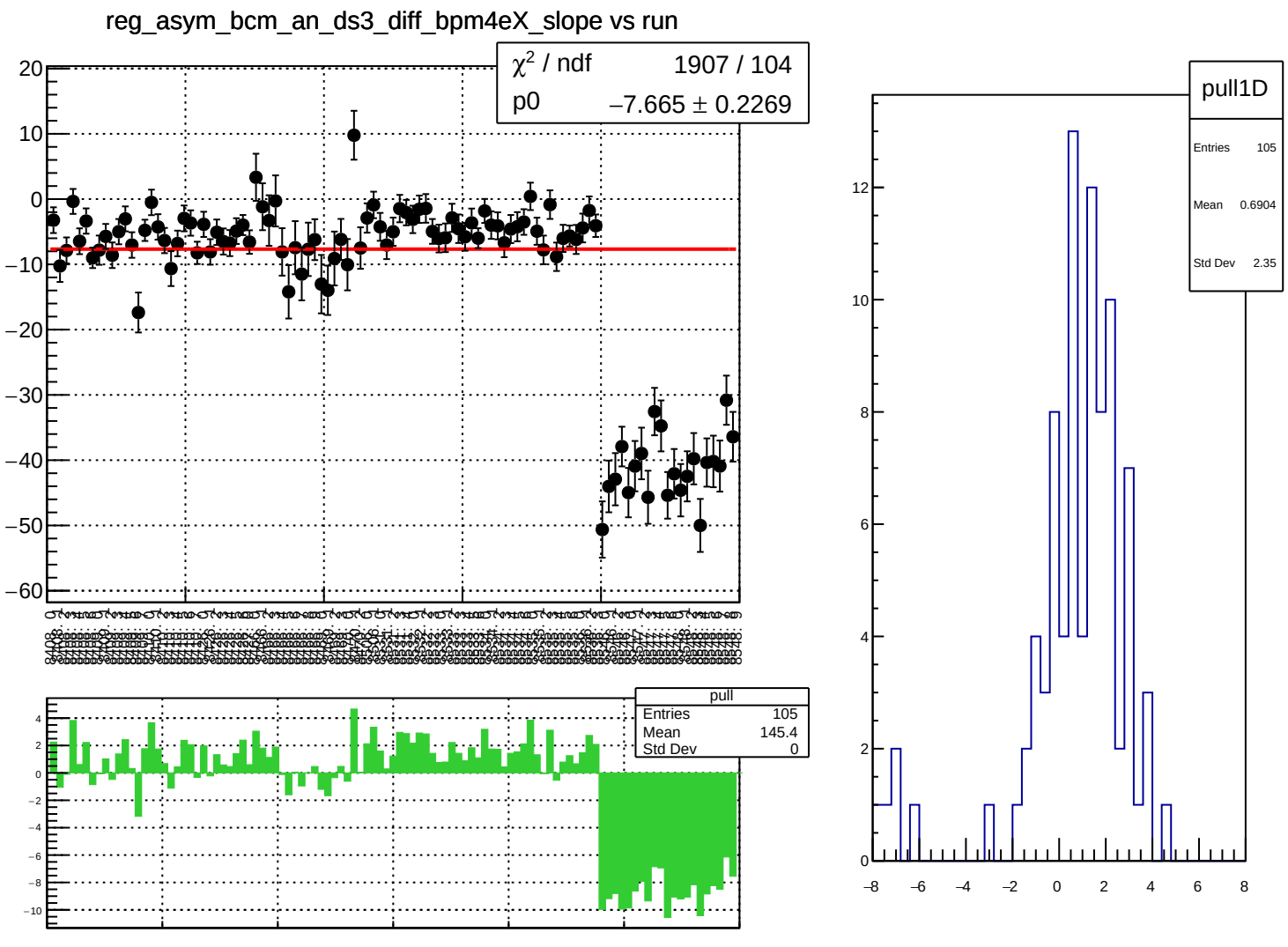

reg_asym_us_dd_atlr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 102.4 / 104
p0 7.961 ± 3.612
1000
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 105
Mean 52.04
Std Dev 0
3
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.03941
Std Dev 0.9867
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

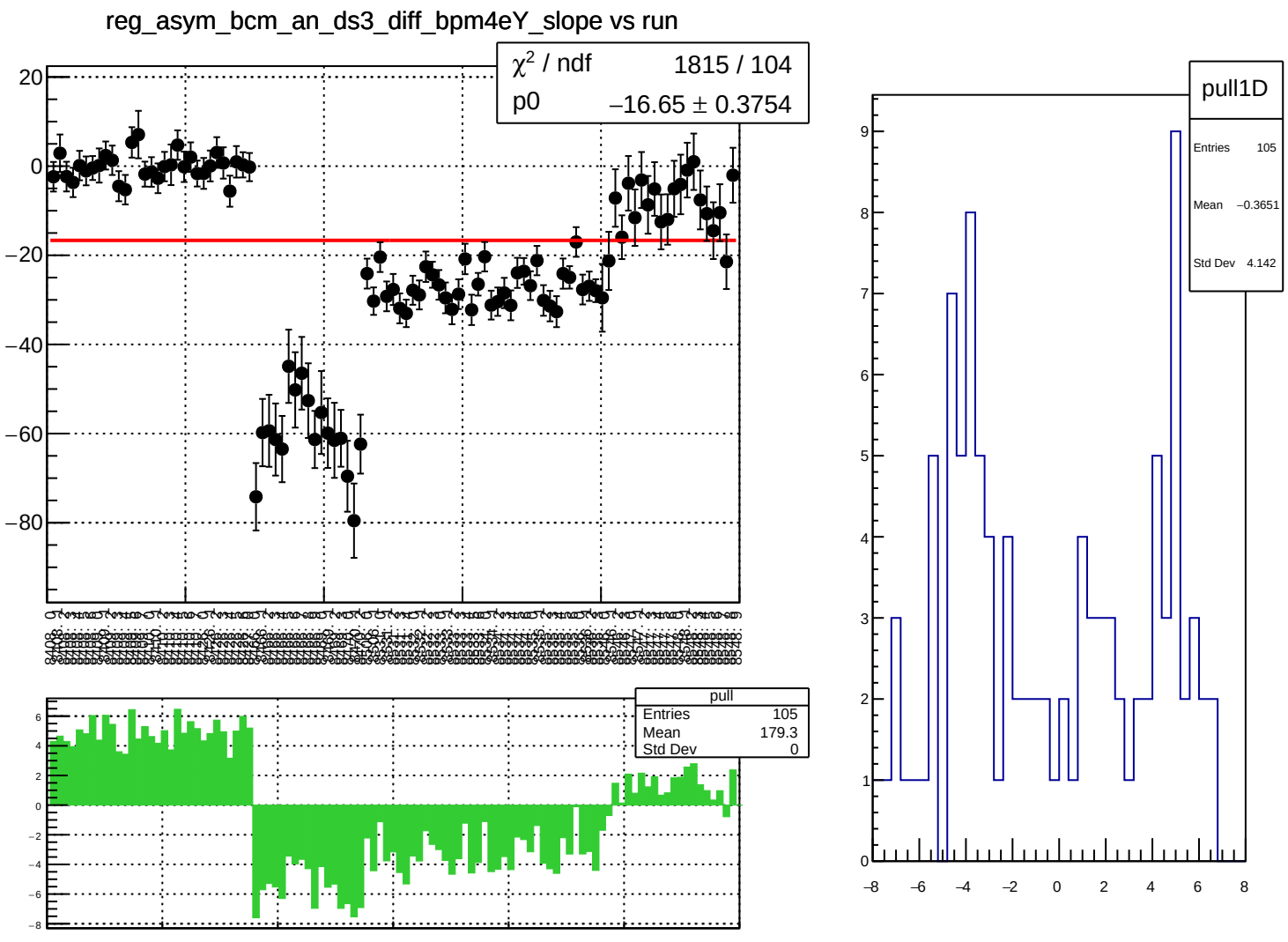

reg_asym_us_dd_atlr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 112.2 / 104
p0 −24.35 ± 0.2232
20
0
−20
−40
−60
−80
pull
Entries 105
Mean 72.96
Std Dev 11.18
3
2
1
0
−1
−2
pull1D
Entries 105
Mean 0.3321
Std Dev 0.9789
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

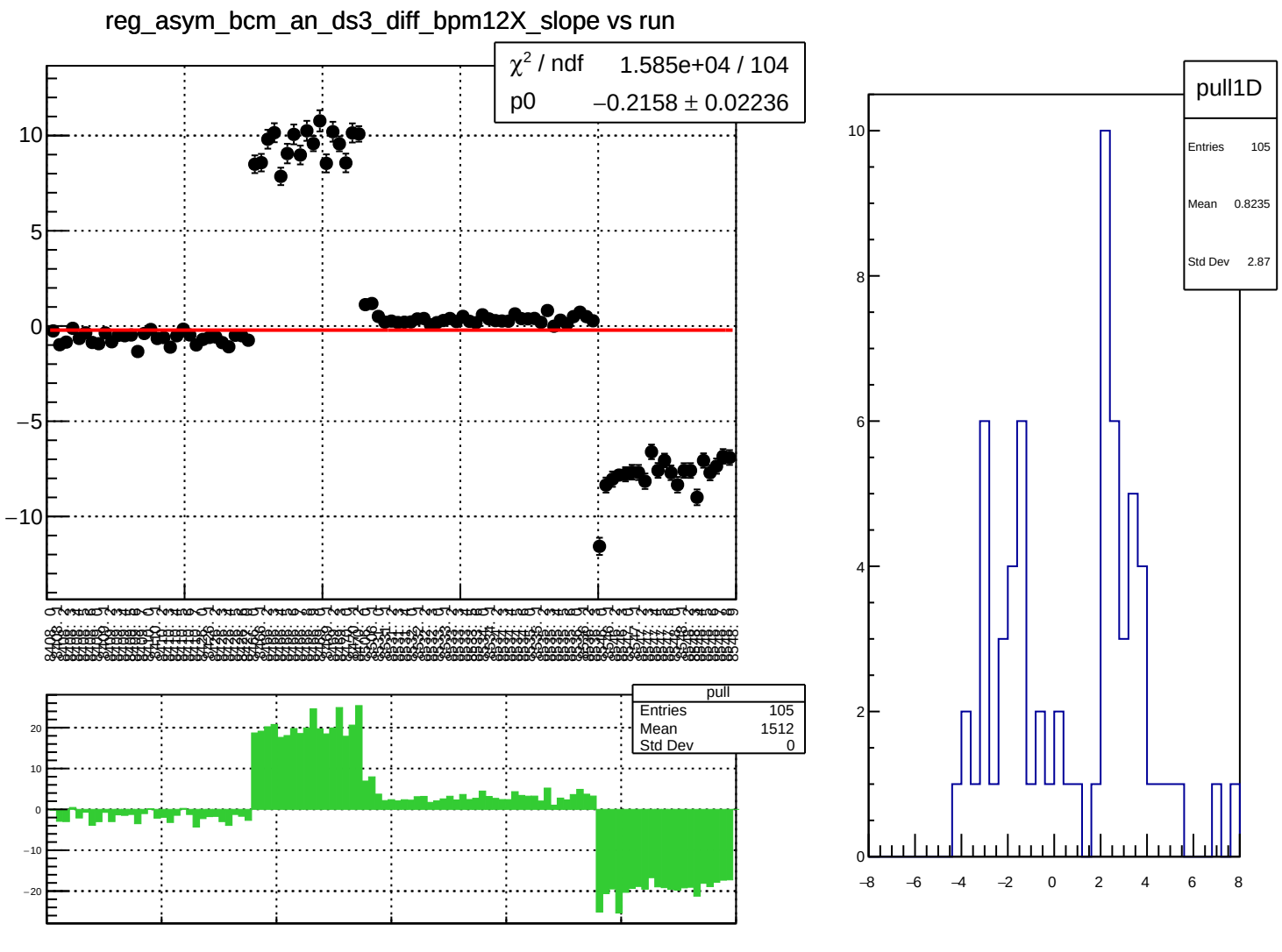

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 1683 / 104
p0 8.82 ± 0.2087
pull
Entries 105
Mean 104.7
Std Dev 0

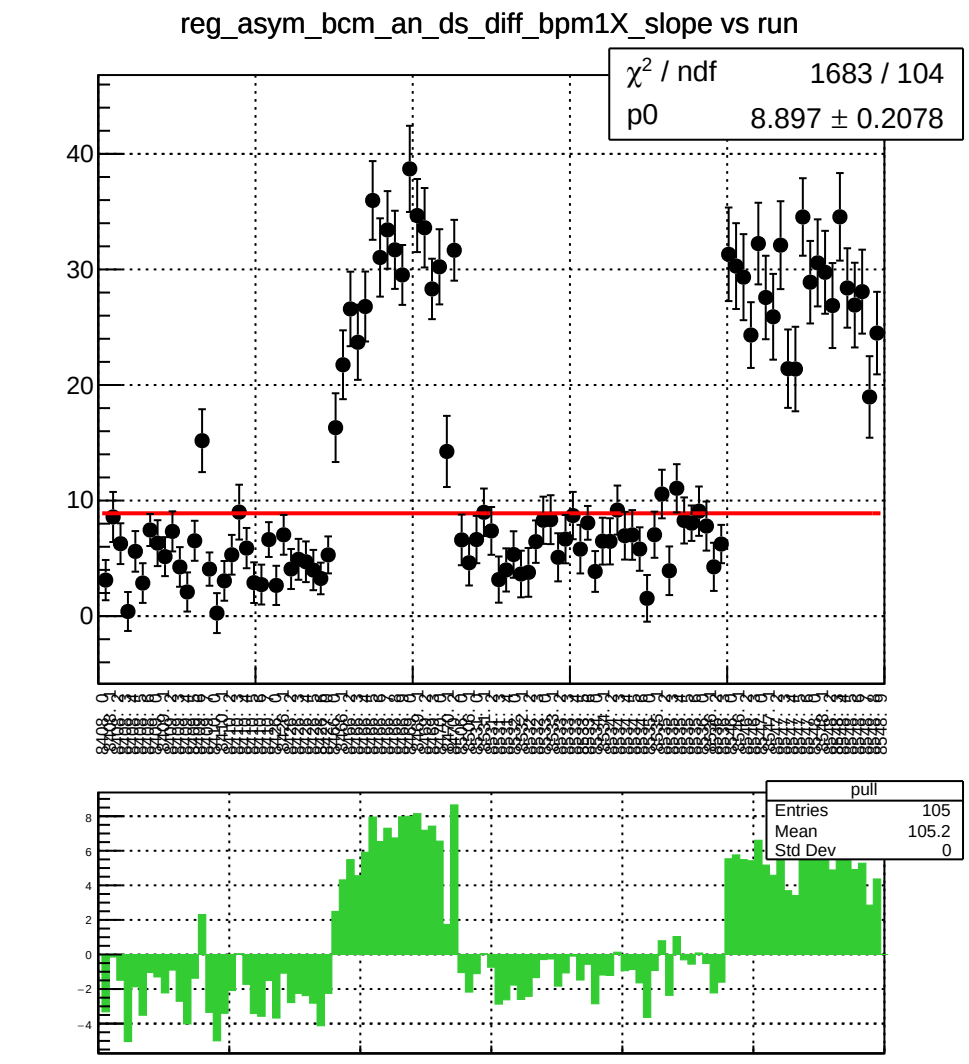

pull1D
Entries 105
Mean 0.8394
Std Dev 3.776

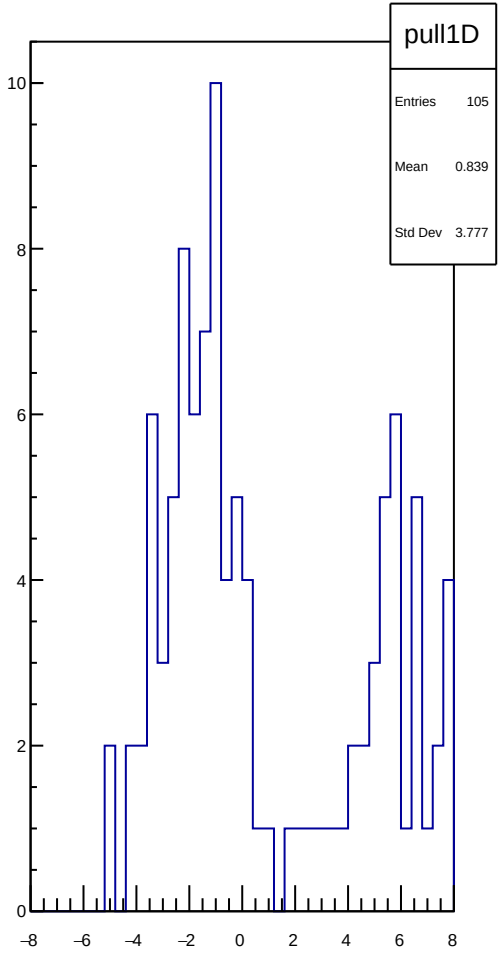

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 2630 / 104
p0 17.41 ± 0.3535
100
80
60
40
20
0
−20
pull
Entries 105
Mean 129.1
Std Dev 0
10
8
6
4
2
0
−2
−4
−6
pull1D
Entries 105
Mean −0.4467
Std Dev 4.305
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

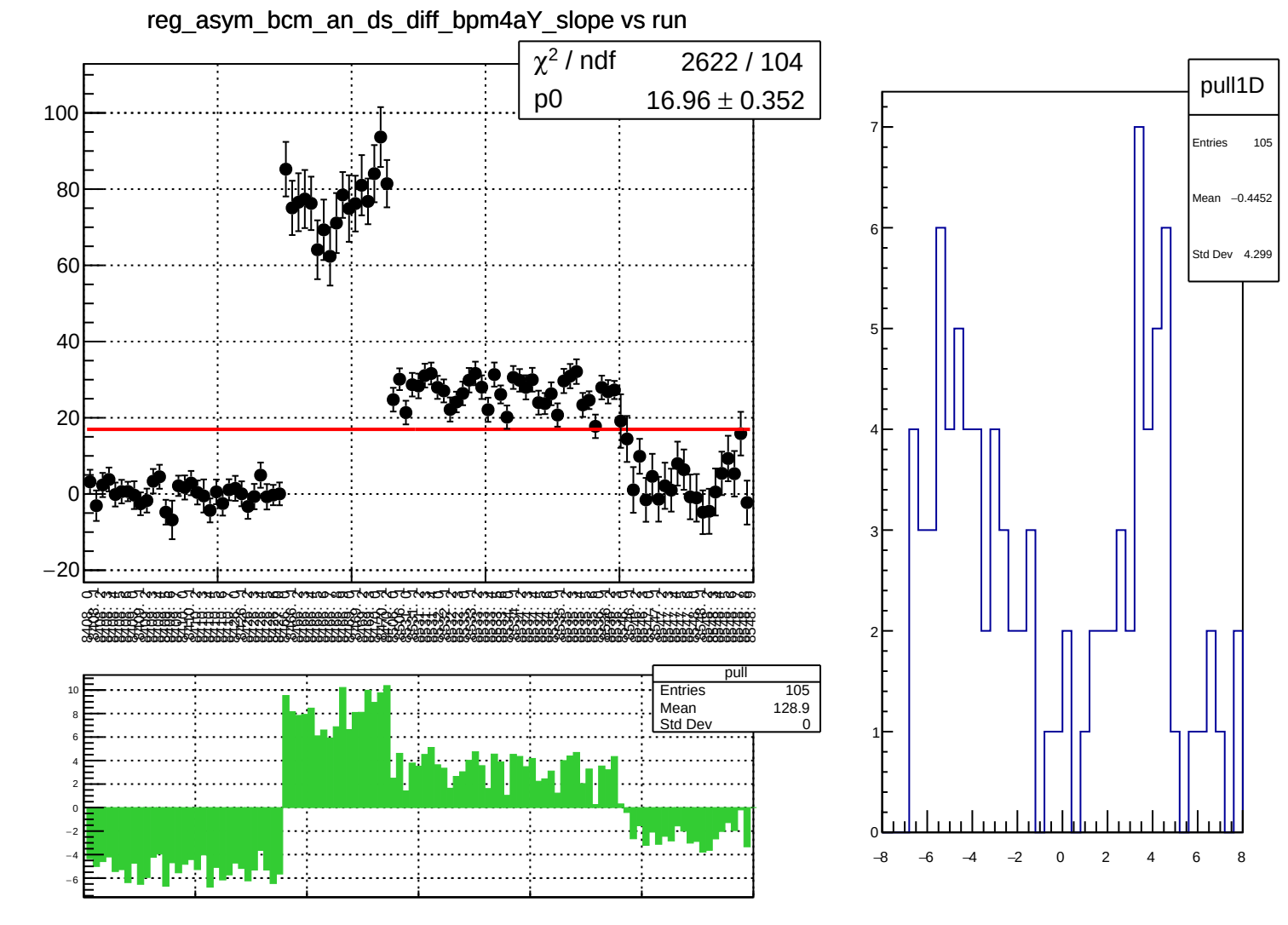

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 1907 / 104
p0 −7.665 ± 0.2269
pull
Entries 105
Mean 145.4
Std Dev 0
pull1D
Entries 105
Mean 0.6904
Std Dev 2.35

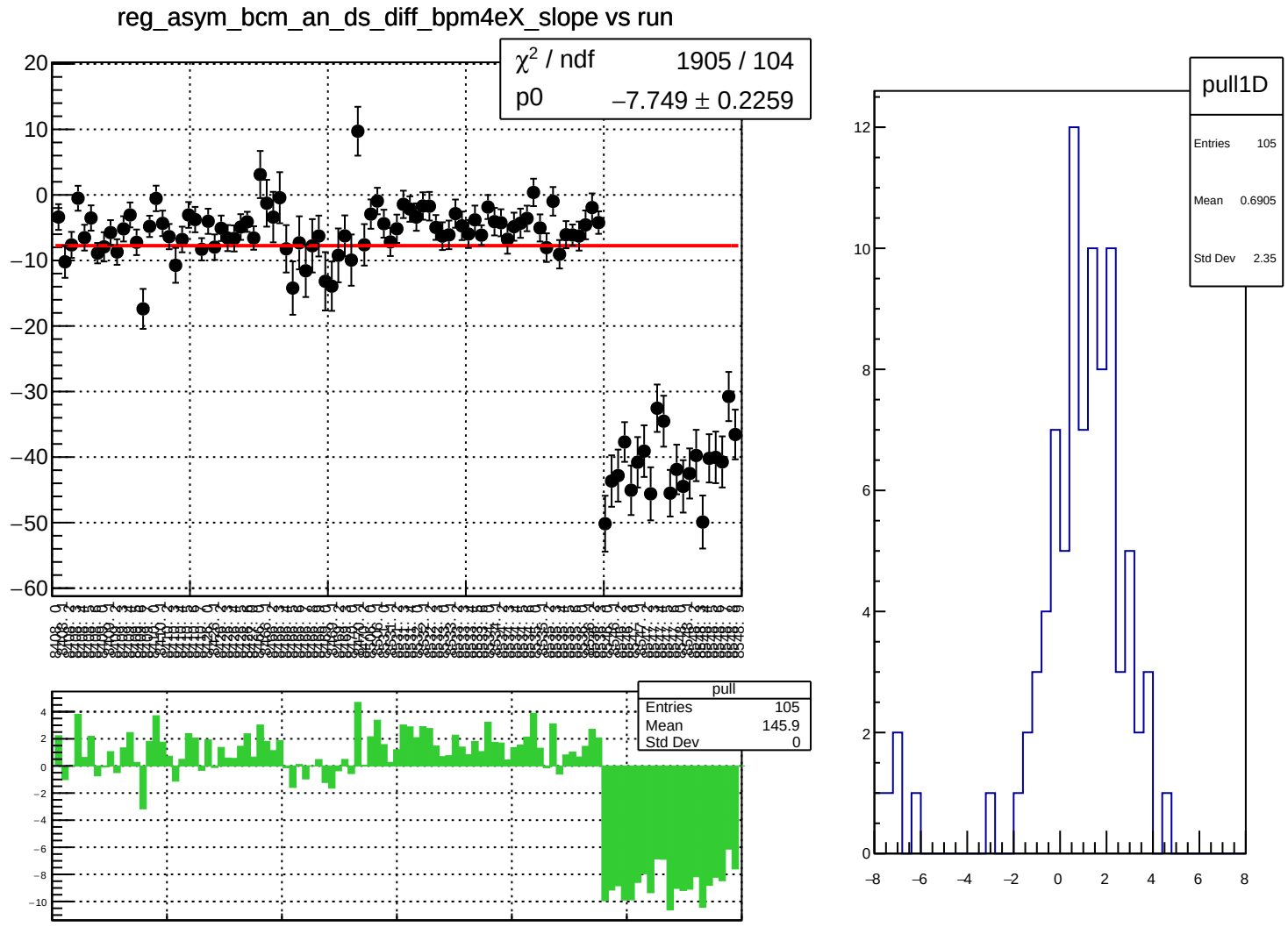

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 1815 / 104
p0 −16.65 ± 0.3754
pull
Entries 105
Mean 179.3
Std Dev 0
pull1D
Entries 105
Mean −0.3651
Std Dev 4.142

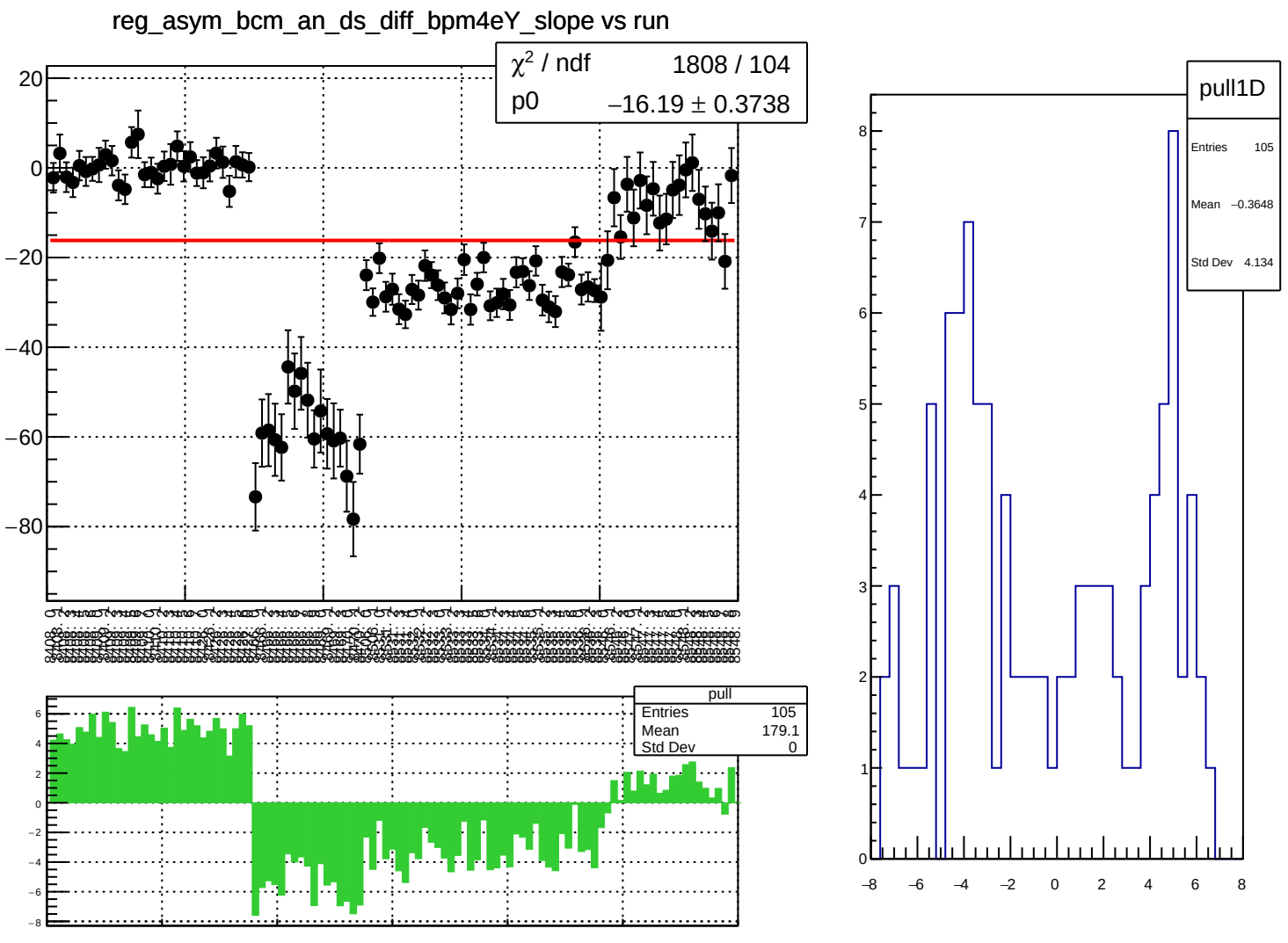

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 1.585e+04 / 104
p0 −0.2158 ± 0.02236
10
5
0
−5
−10
pull
Entries 105
Mean 1512
Std Dev 0
20
10
0
−10
−20
pull1D
Entries 105
Mean 0.8235
Std Dev 2.87
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

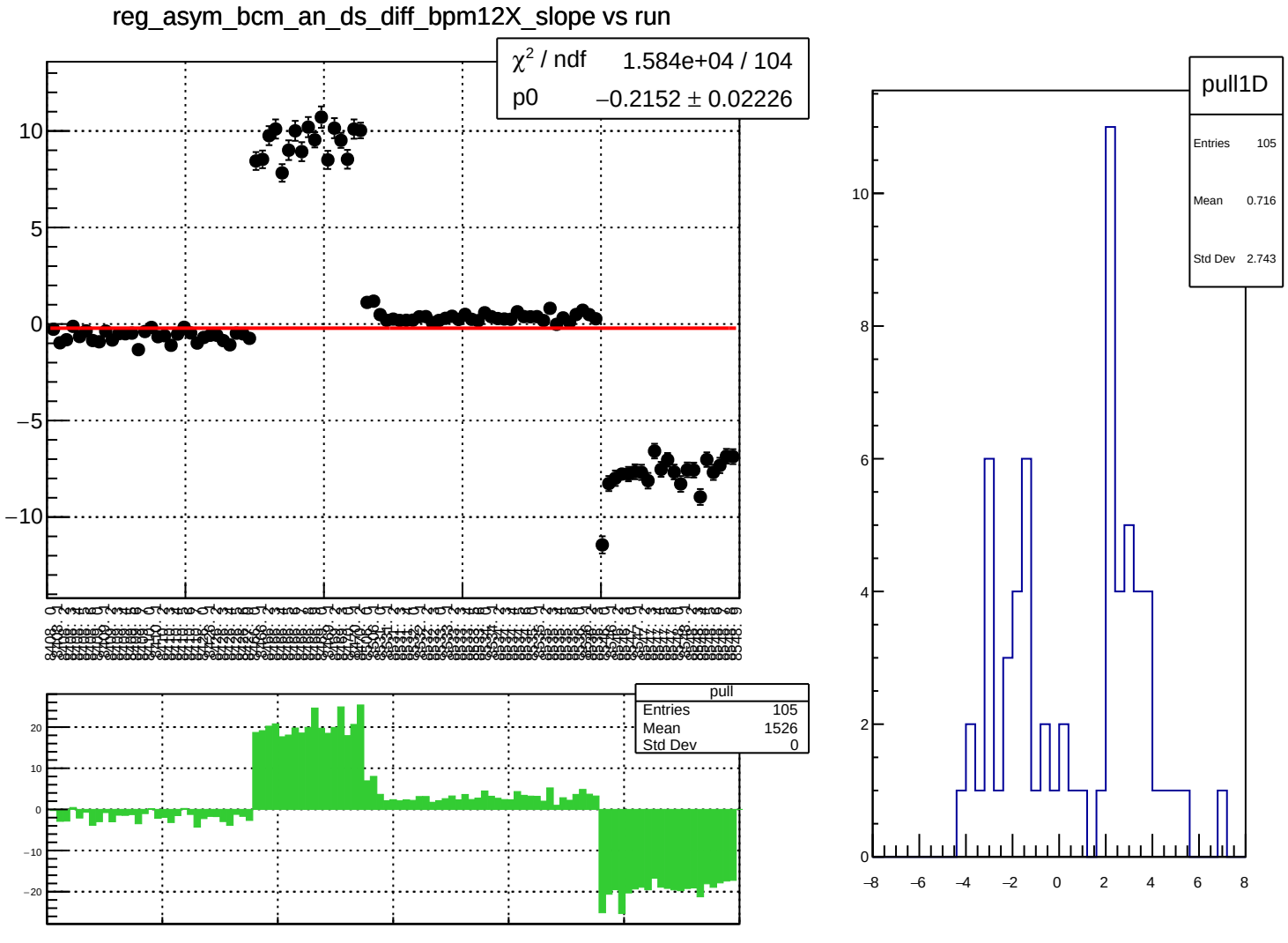

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 1683 / 104
p0 8.897 ± 0.2078
pull
Entries 105
Mean 105.2
Std Dev 0

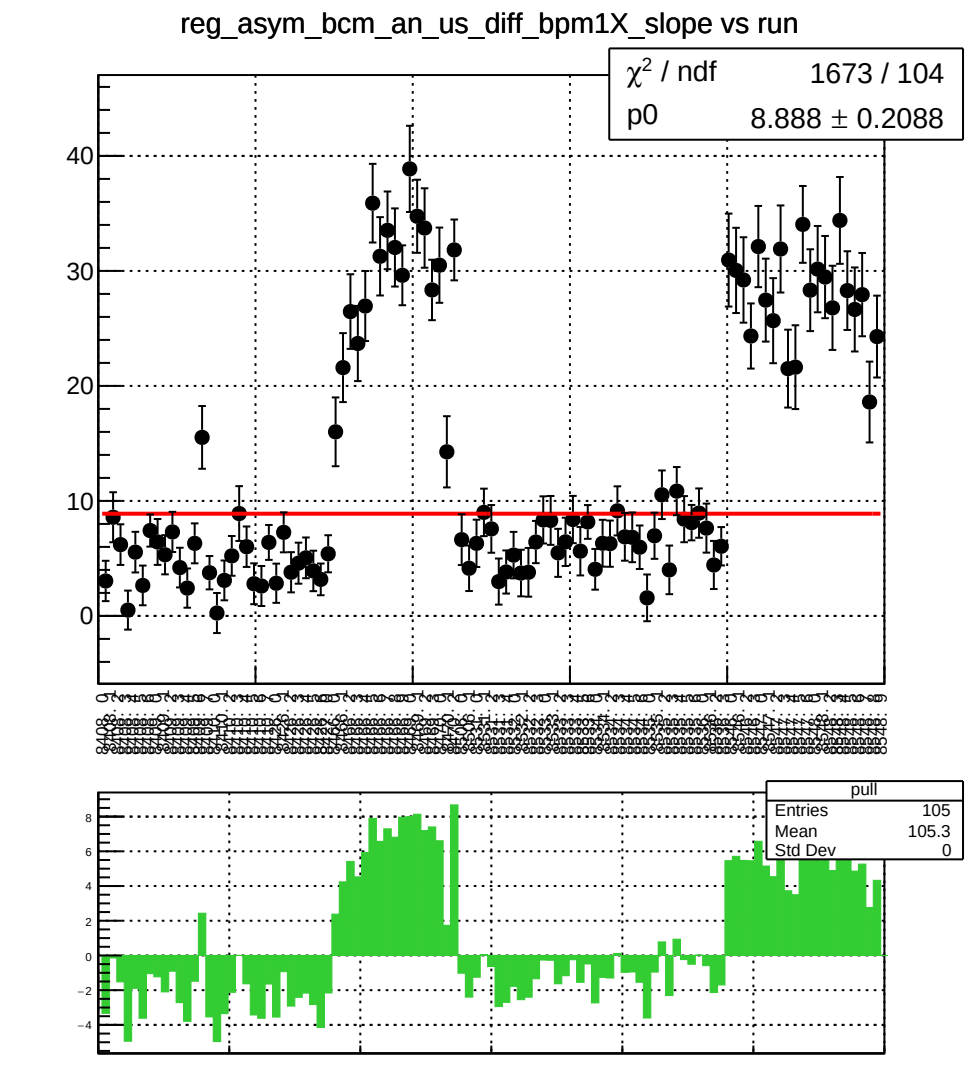

pull1D
Entries 105
Mean 0.839
Std Dev 3.777

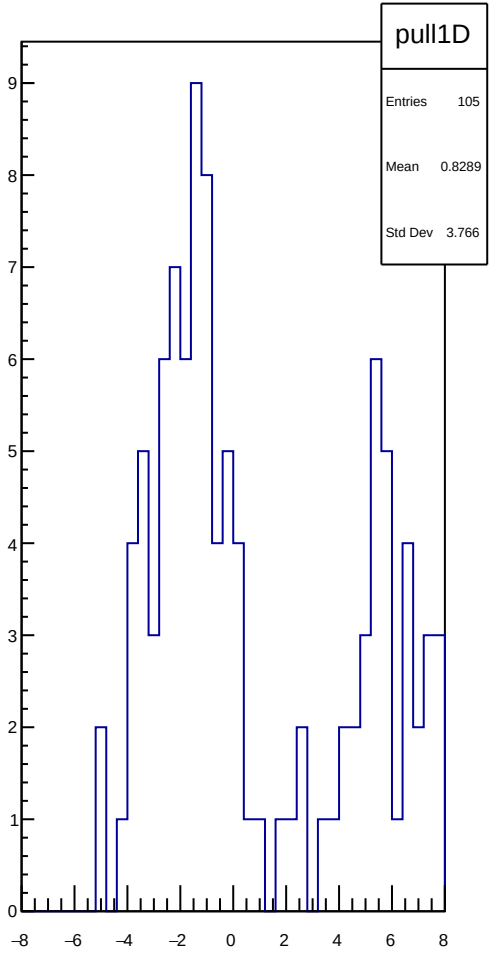

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 2622 / 104
p0 16.96 ± 0.352
pull
Entries 105
Mean 128.9
Std Dev 0
pull1D
Entries 105
Mean −0.4452
Std Dev 4.299

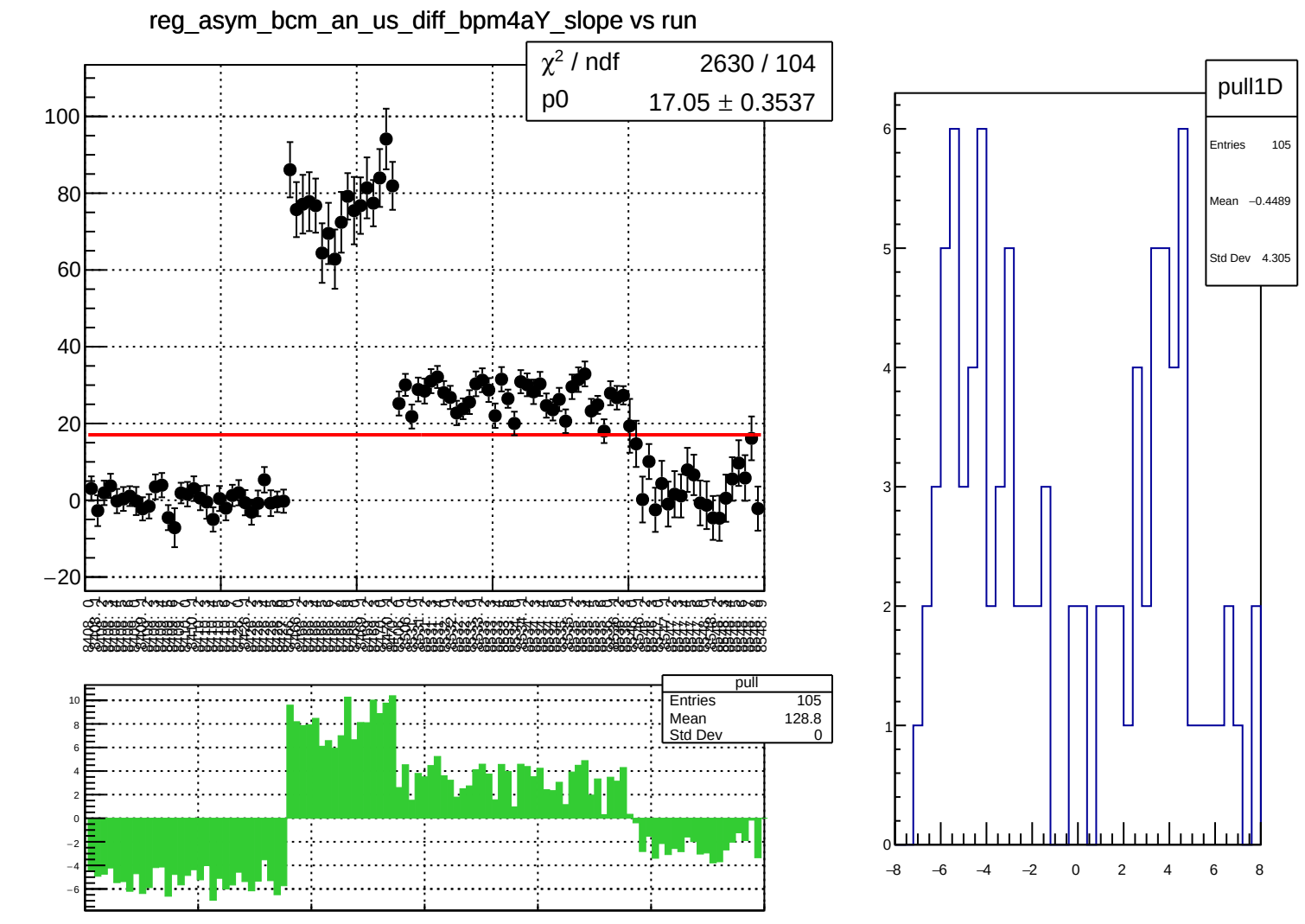

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 1905 / 104
p0 −7.749 ± 0.2259
pull
Entries 105
Mean 145.9
Std Dev 0
pull1D
Entries 105
Mean 0.6905
Std Dev 2.35

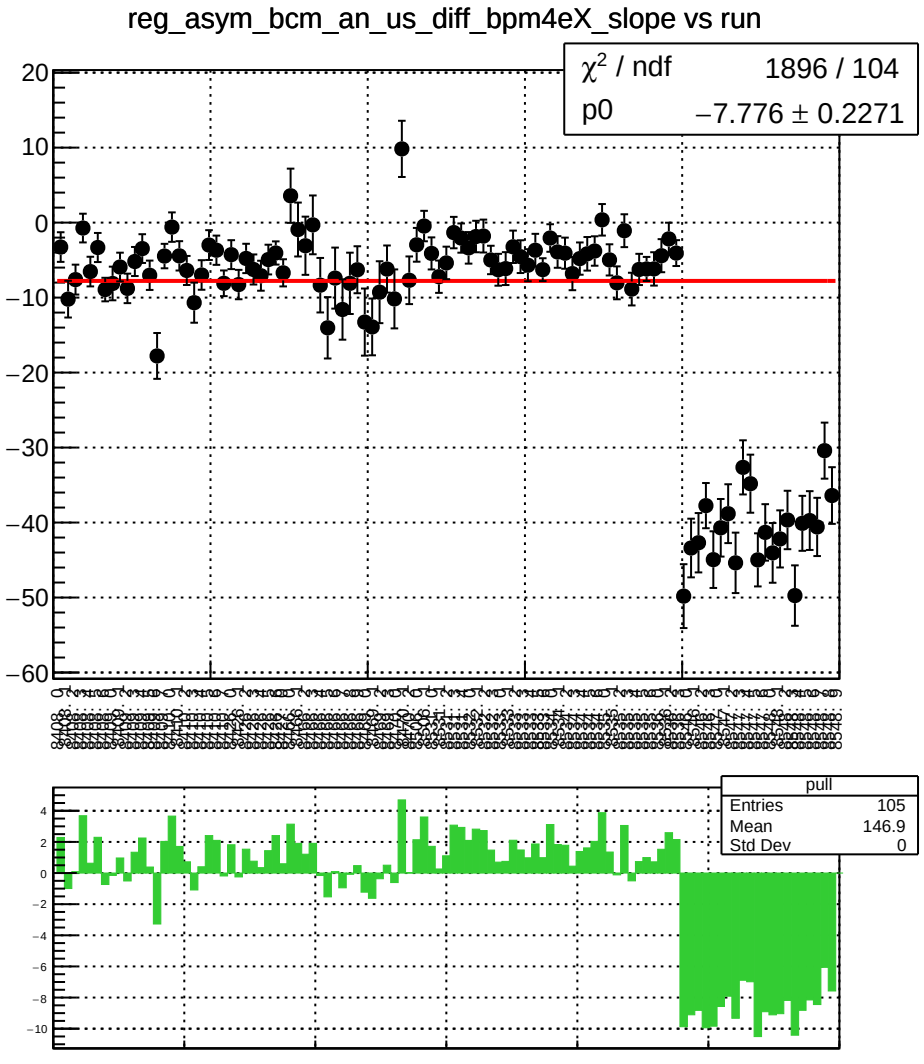

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 1808 / 104
p0 −16.19 ± 0.3738
20
0
−20
−40
−60
−80
pull
Entries 105
Mean 179.1
Std Dev 0
6
4
2
0
−2
−4
−6
−8
pull1D
Entries 105
Mean −0.3648
Std Dev 4.134
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

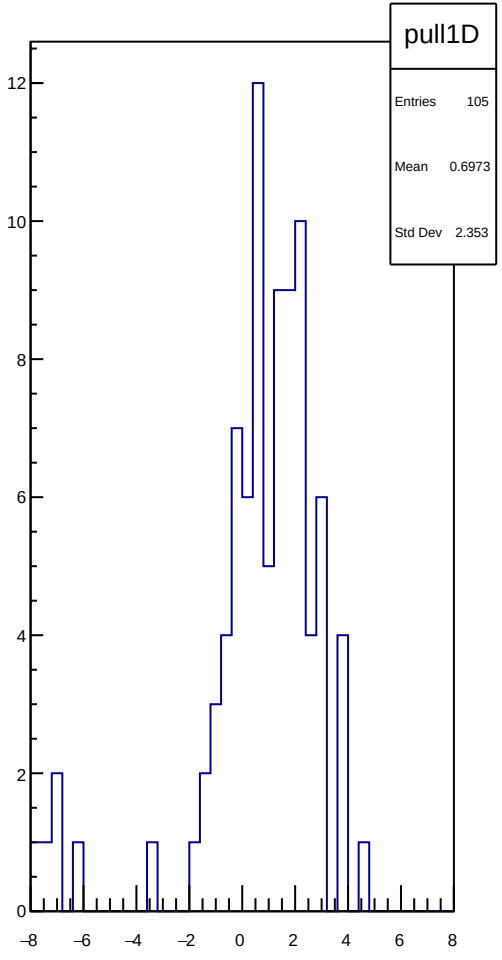

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 1.584e+04 / 104
p0 −0.2152 ± 0.02226
pull
Entries 105
Mean 1526
Std Dev 0
pull1D
Entries 105
Mean 0.716
Std Dev 2.743

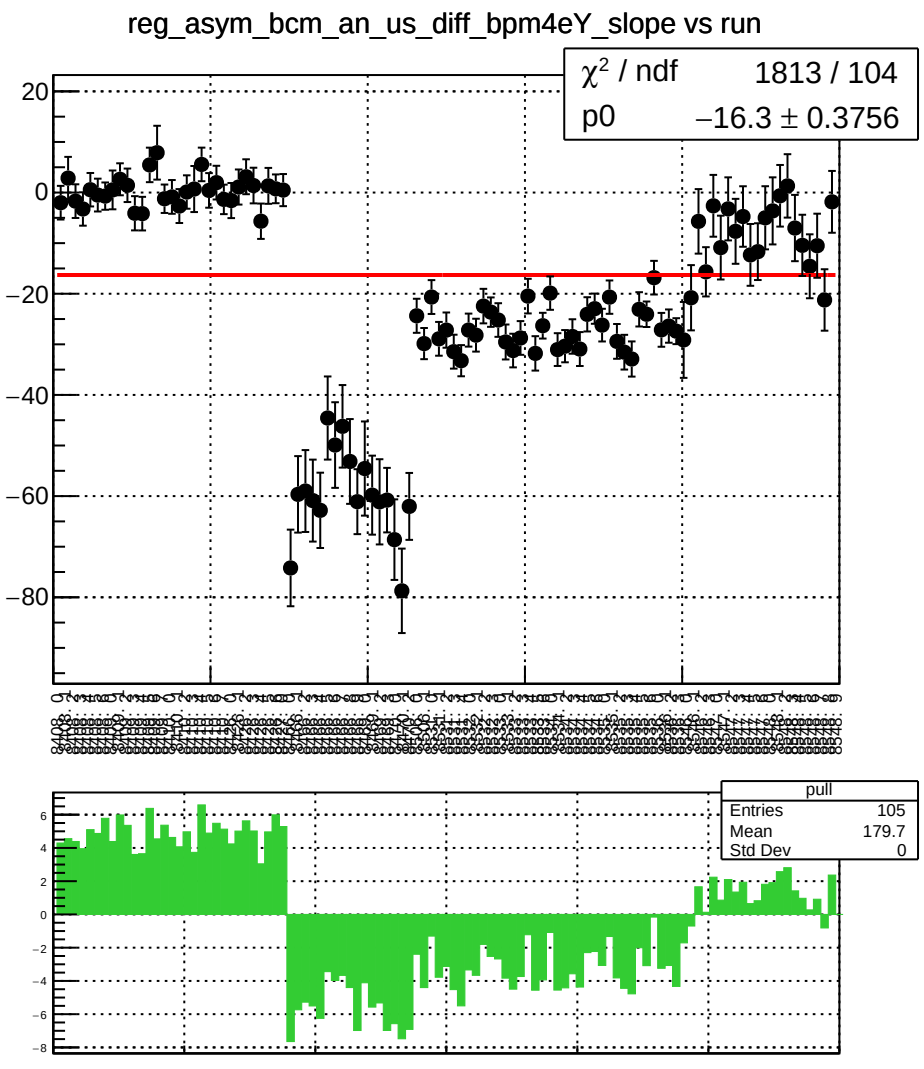

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 1673 / 104
p0 8.888 ± 0.2088
pull
Entries 105
Mean 105.3
Std Dev 0

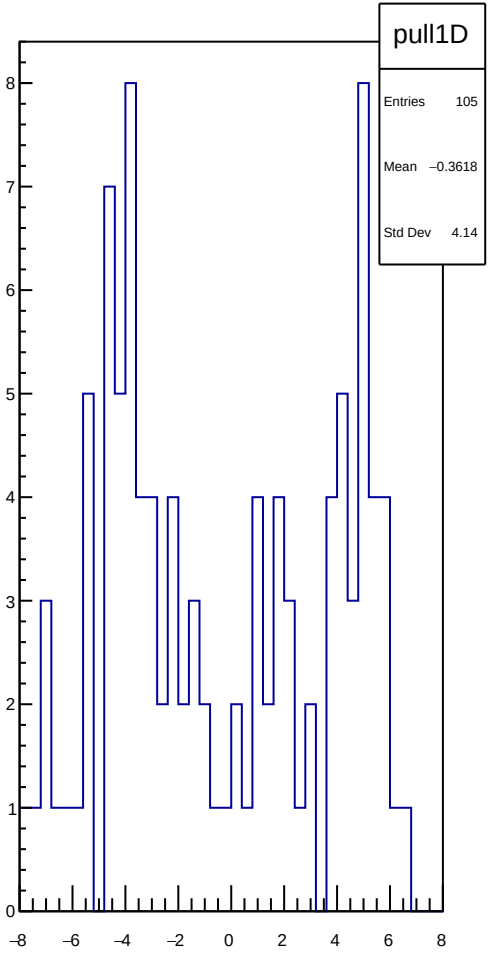

pull1D
Entries 105
Mean 0.8289
Std Dev 3.766

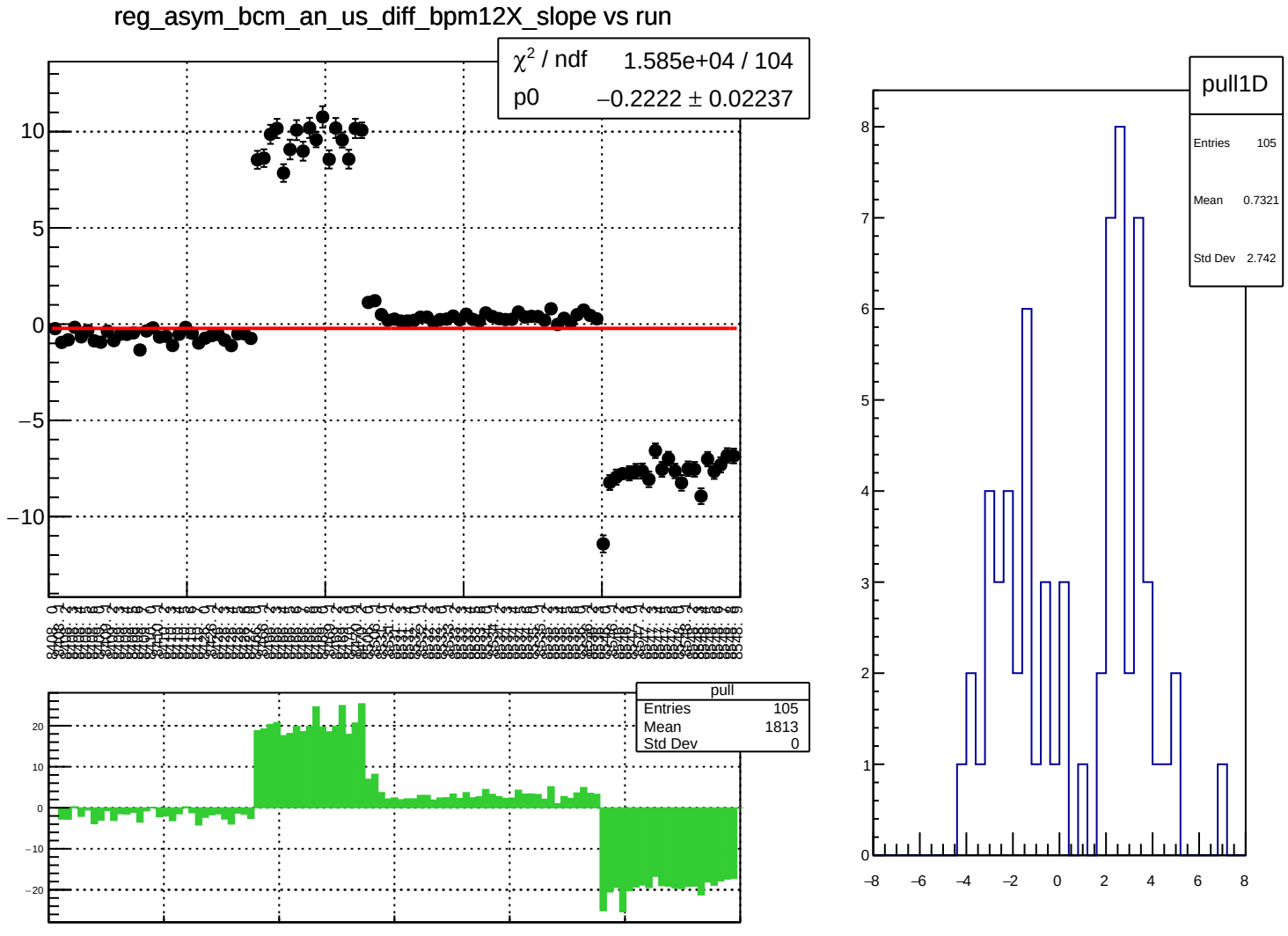

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 2630 / 104
p0 17.05 ± 0.3537
100
80
60
40
20
0
−20
pull
Entries 105
Mean 128.8
Std Dev 0
10
8
6
4
2
0
−2
−4
−6
pull1D
Entries 105
Mean −0.4489
Std Dev 4.305
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

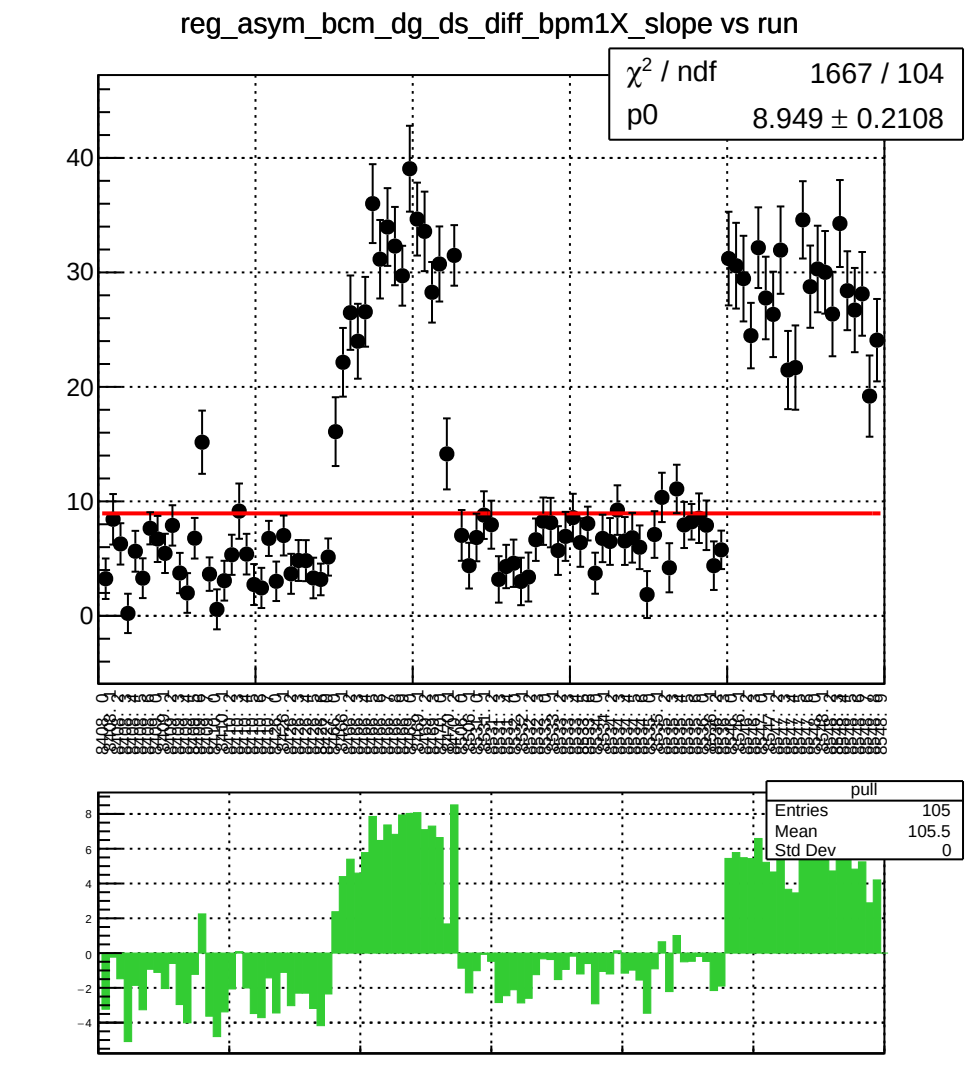

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 1896 / 104
p0 −7.776 ± 0.2271
pull
Entries 105
Mean 146.9
Std Dev 0

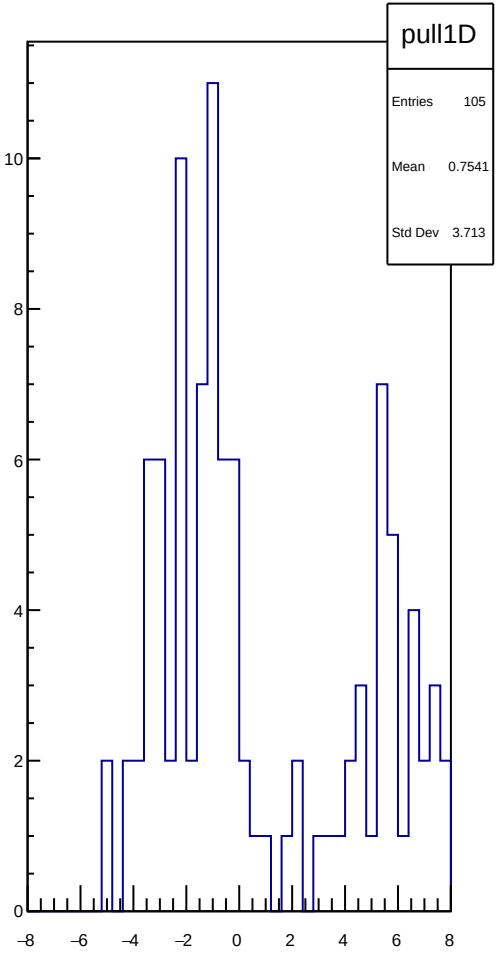

pull1D
Entries 105
Mean 0.6973
Std Dev 2.353

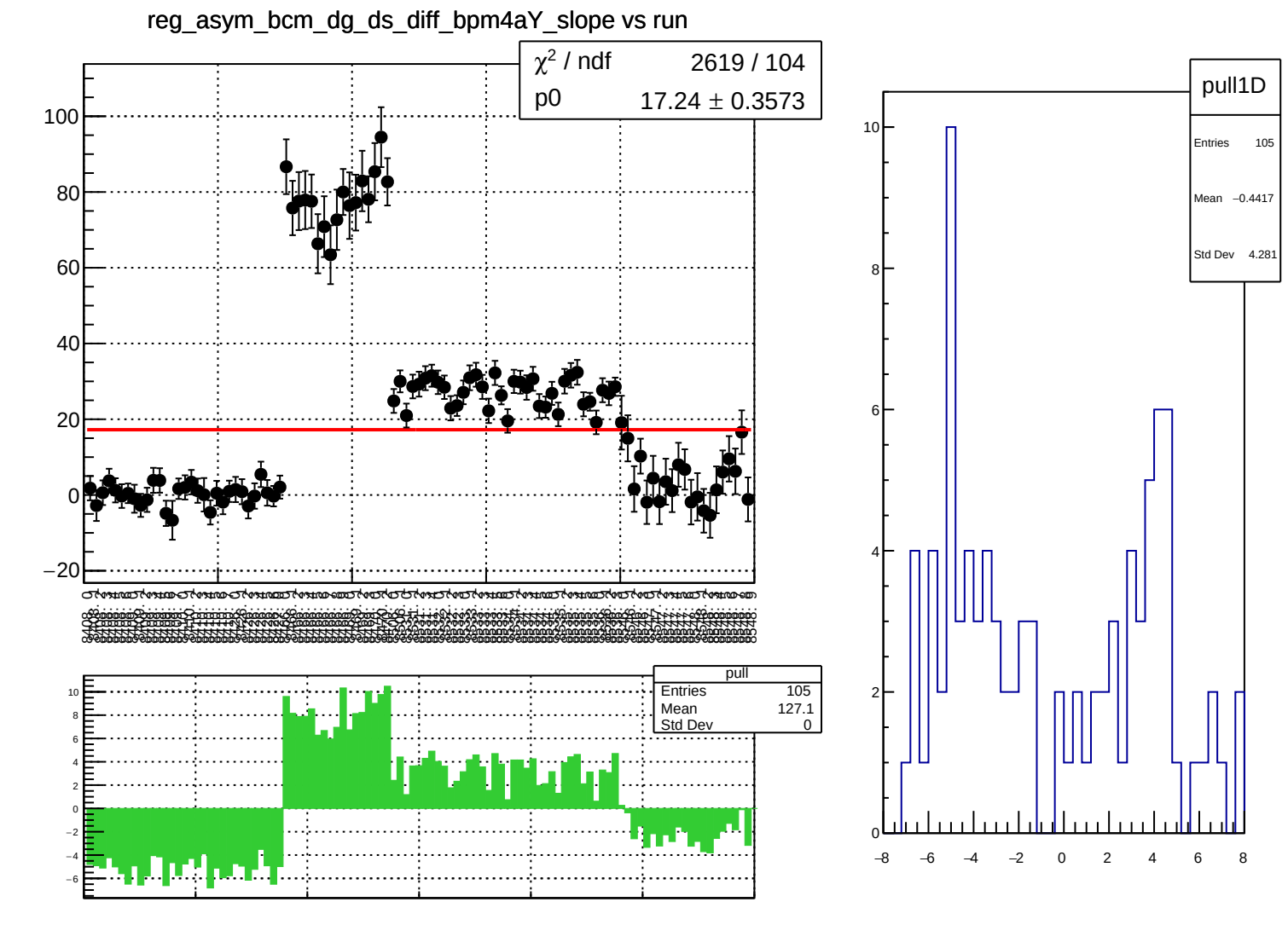

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 1813 / 104
p0 −16.3 ± 0.3756
20
0
−20
−40
−60
−80
pull
Entries 105
Mean 179.7
Std Dev 0
6
4
2
0
−2
−4
−6
−8

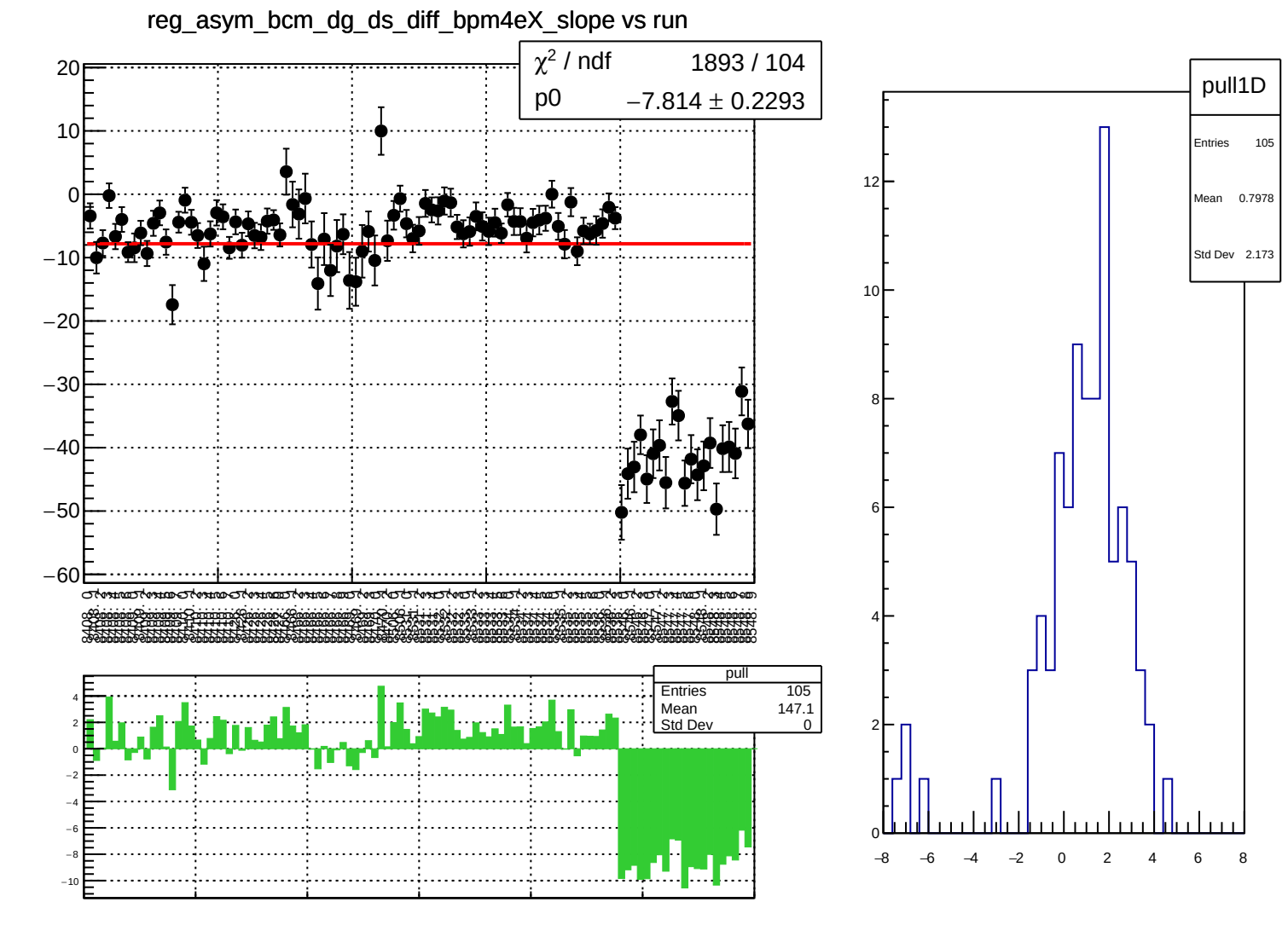

pull1D
Entries 105
Mean −0.3618
Std Dev 4.14
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

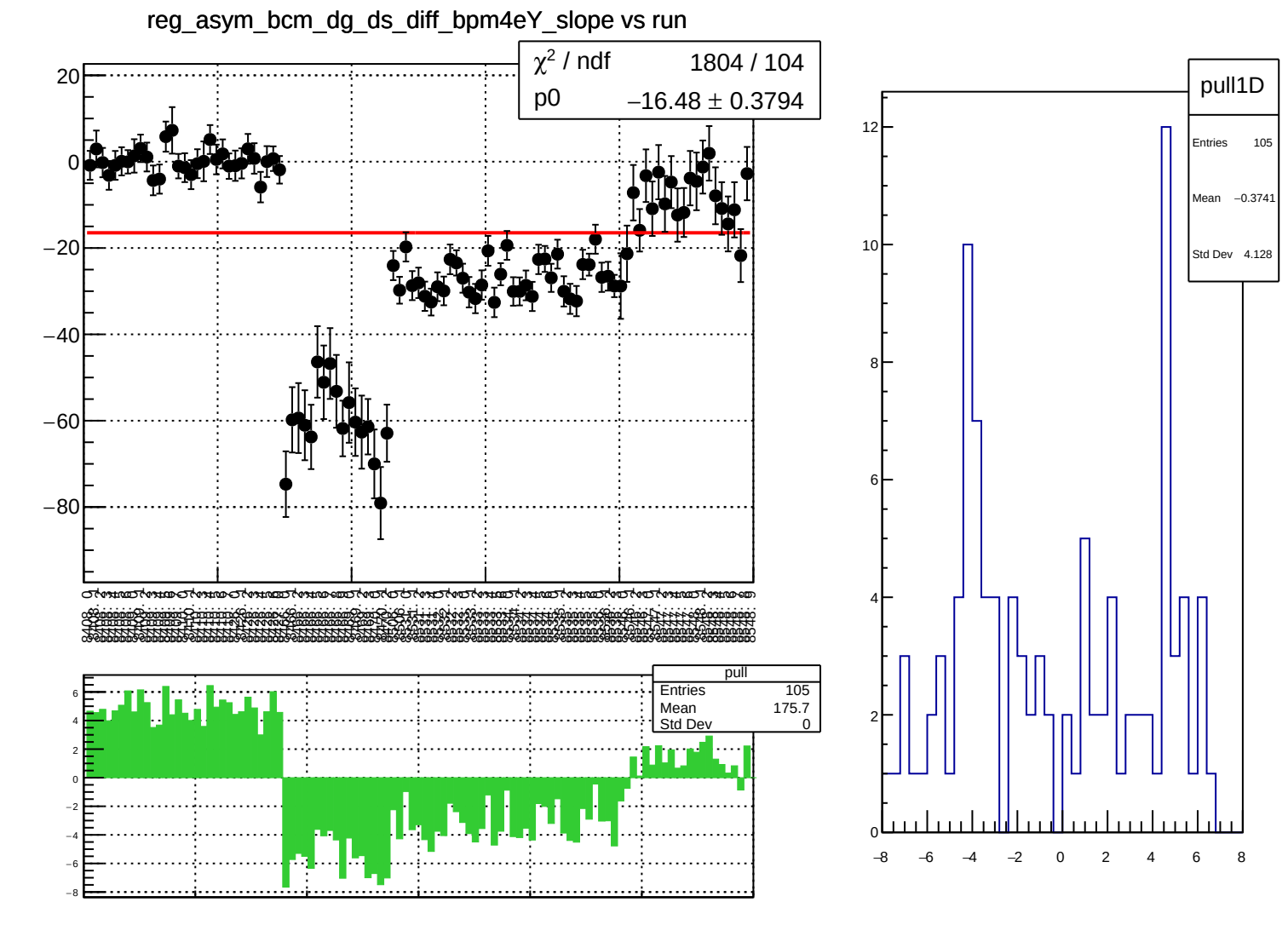

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 1.585e+04 / 104
p0 −0.2222 ± 0.02237
pull
Entries 105
Mean 1813
Std Dev 0
pull1D
Entries 105
Mean 0.7321
Std Dev 2.742

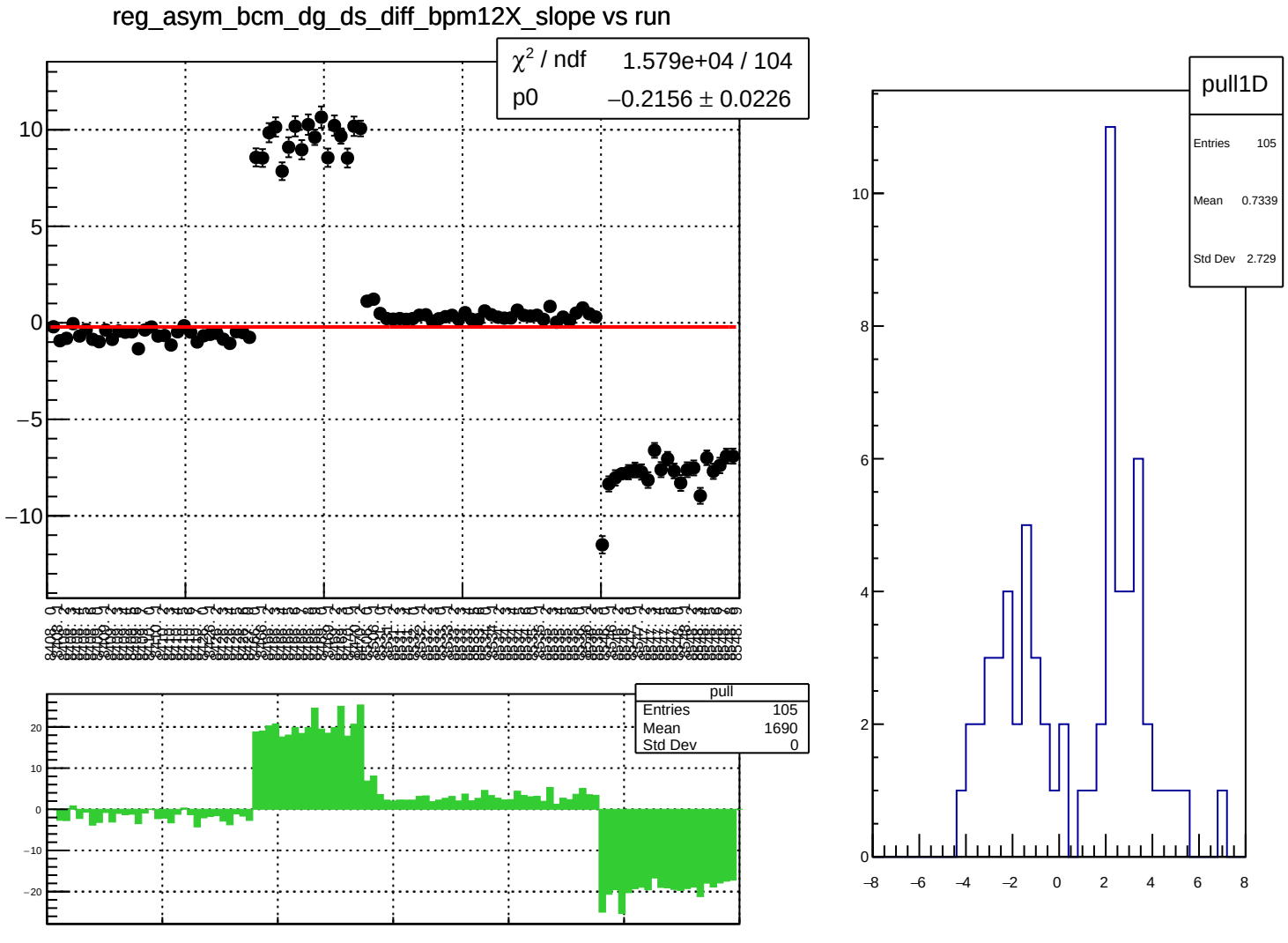

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 1667 / 104
p0 8.949 ± 0.2108
pull
Entries 105
Mean 105.5
Std Dev 0

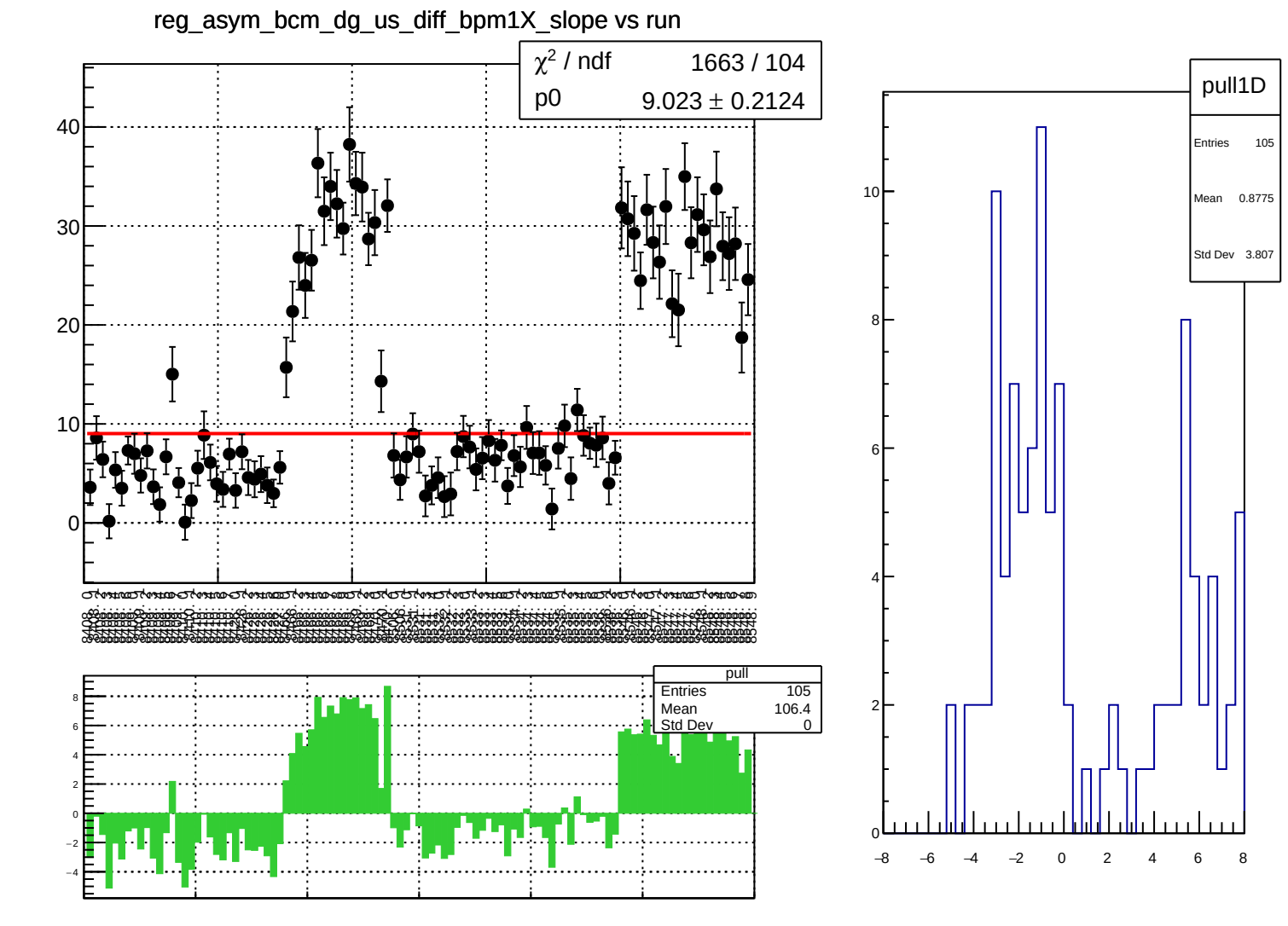

pull1D
Entries 105
Mean 0.7541
Std Dev 3.713

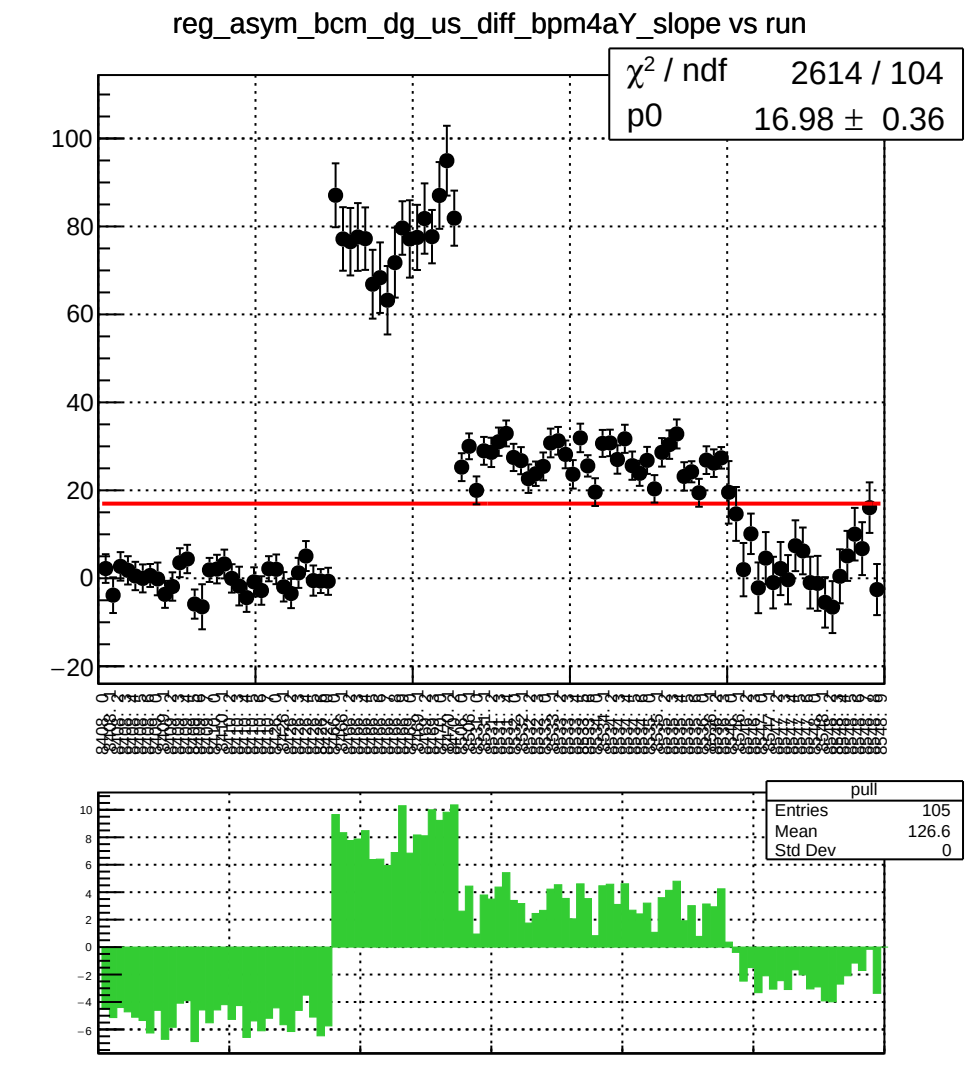

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 2619 / 104
p0 17.24 ± 0.3573
100
80
60
40
20
0
−20
pull
Entries 105
Mean 127.1
Std Dev 0
10
8
6
4
2
0
−2
−4
−6
pull1D
Entries 105
Mean −0.4417
Std Dev 4.281
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

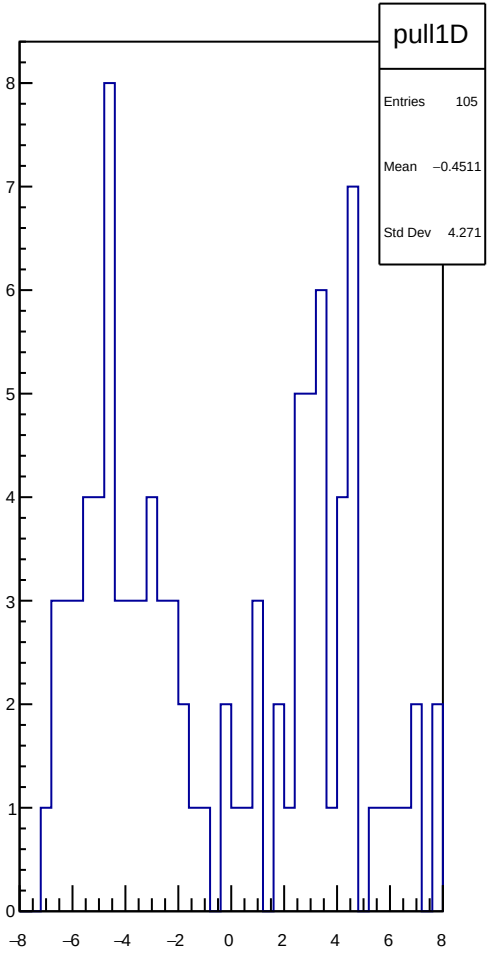

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 1893 / 104
p0 −7.814 ± 0.2293
pull
Entries 105
Mean 147.1
Std Dev 0
pull1D
Entries 105
Mean 0.7978
Std Dev 2.173

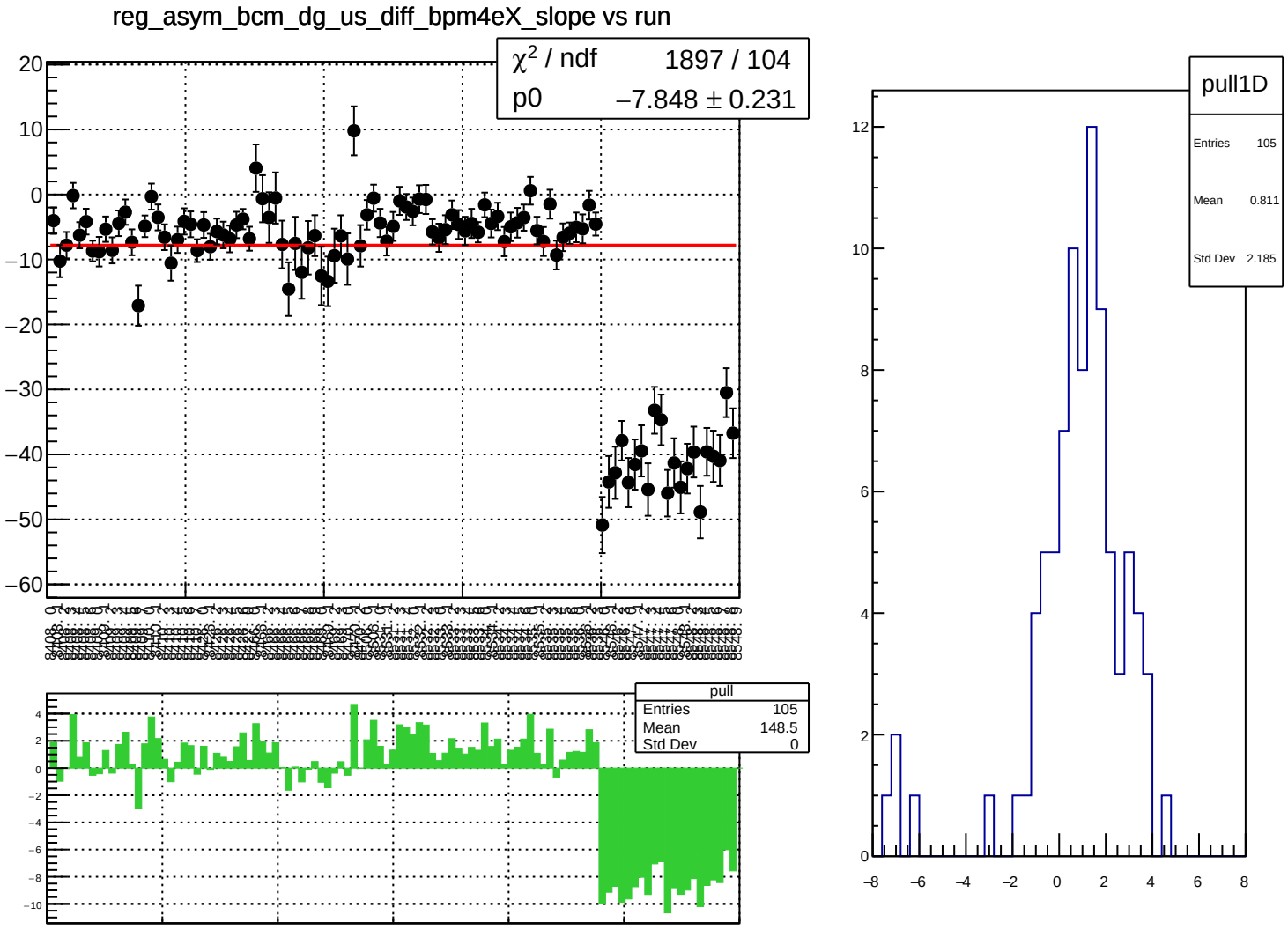

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 1804 / 104
p0 −16.48 ± 0.3794
pull
Entries 105
Mean 175.7
Std Dev 0
pull1D
Entries 105
Mean −0.3741
Std Dev 4.128

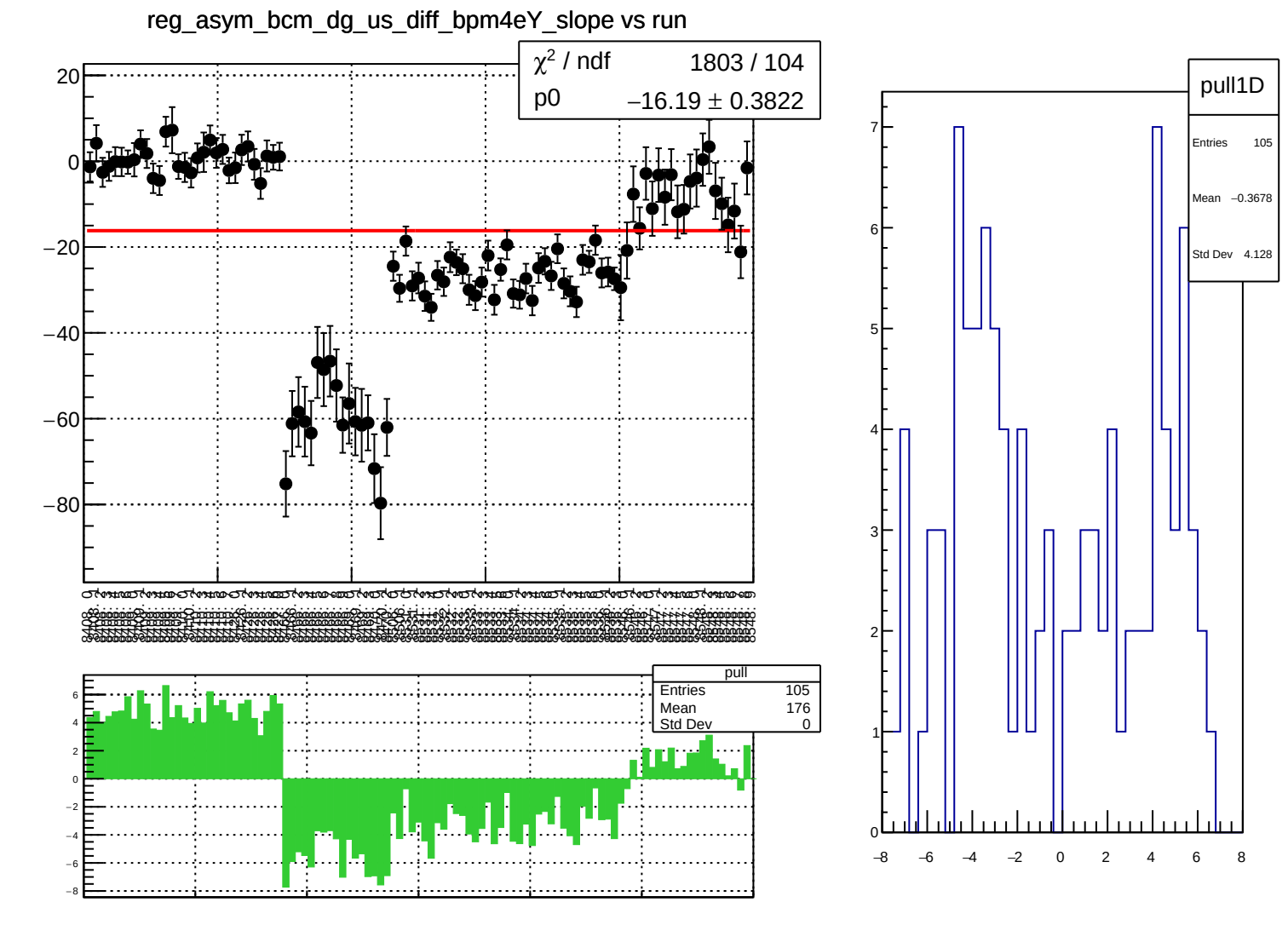

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 1.579e+04 / 104
p0 −0.2156 ± 0.0226
pull
Entries 105
Mean 1690
Std Dev 0
pull1D
Entries 105
Mean 0.7339
Std Dev 2.729

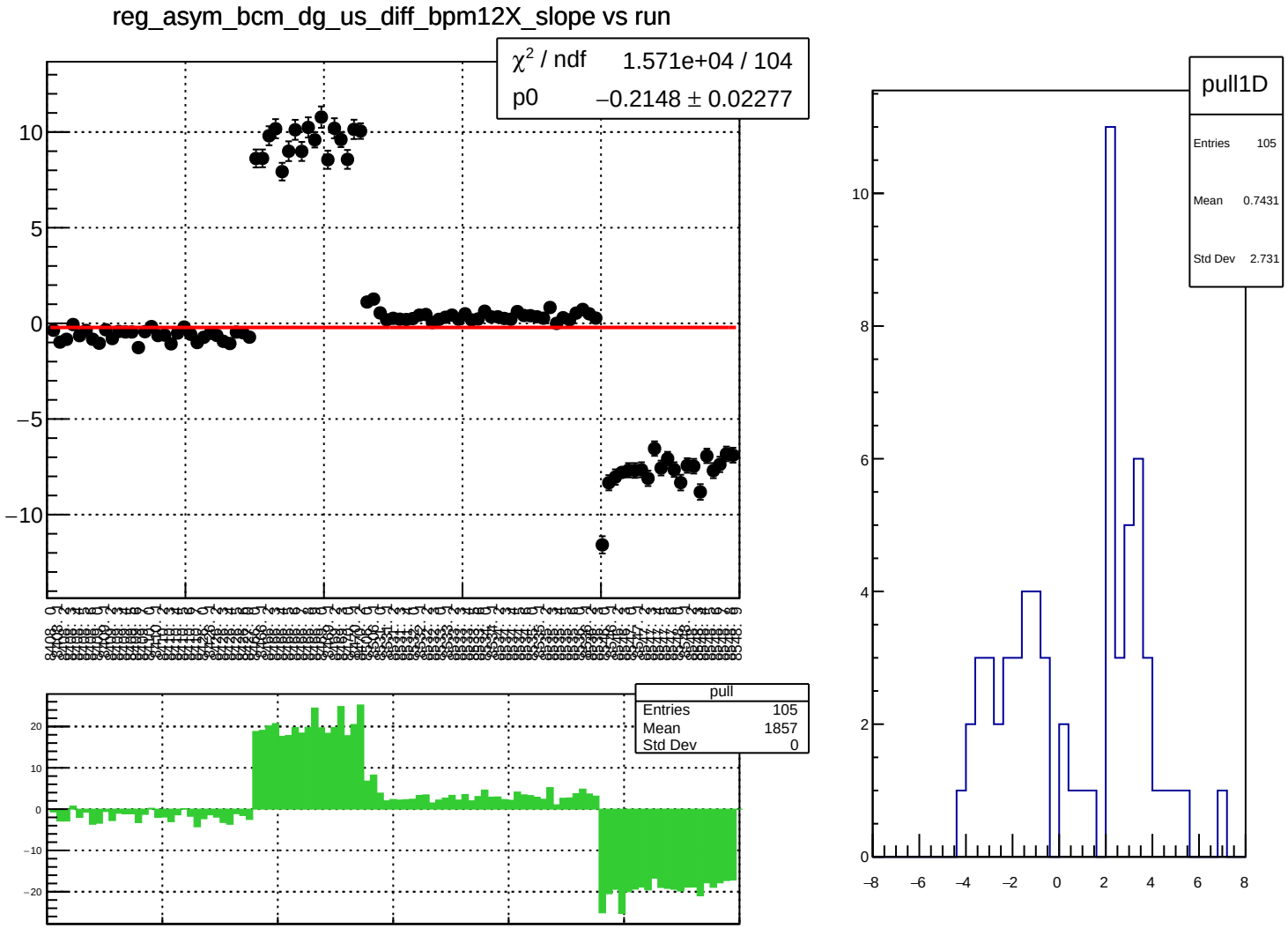

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 1663 / 104
p0 9.023 ± 0.2124
pull
Entries 105
Mean 106.4
Std Dev 0
pull1D
Entries 105
Mean 0.8775
Std Dev 3.807

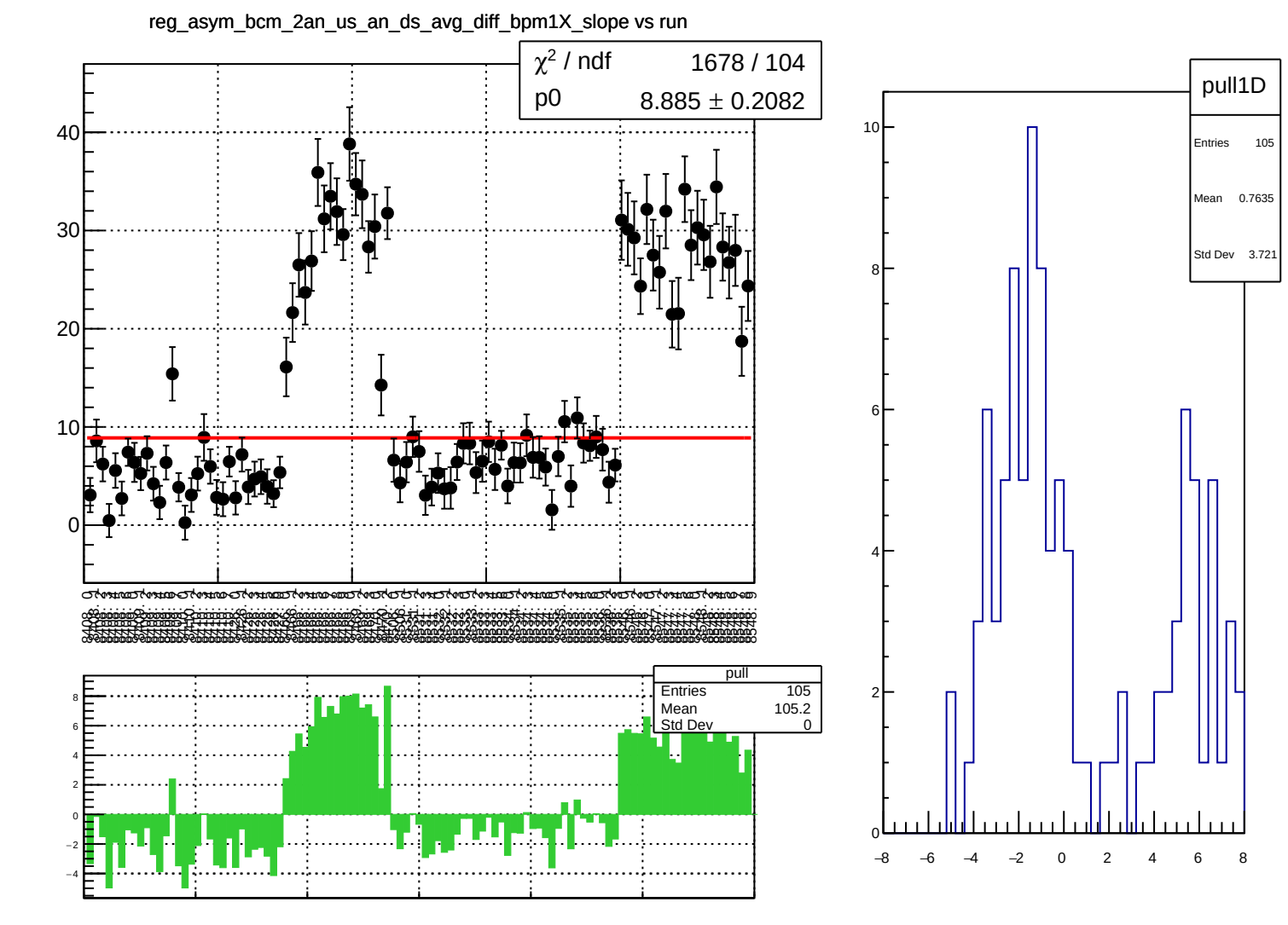

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 2614 / 104
p0 16.98 ± 0.36
100
80
60
40
20
0
−20
pull
Entries 105
Mean 126.6
Std Dev 0
10
8
6
4
2
0
−2
−4
−6

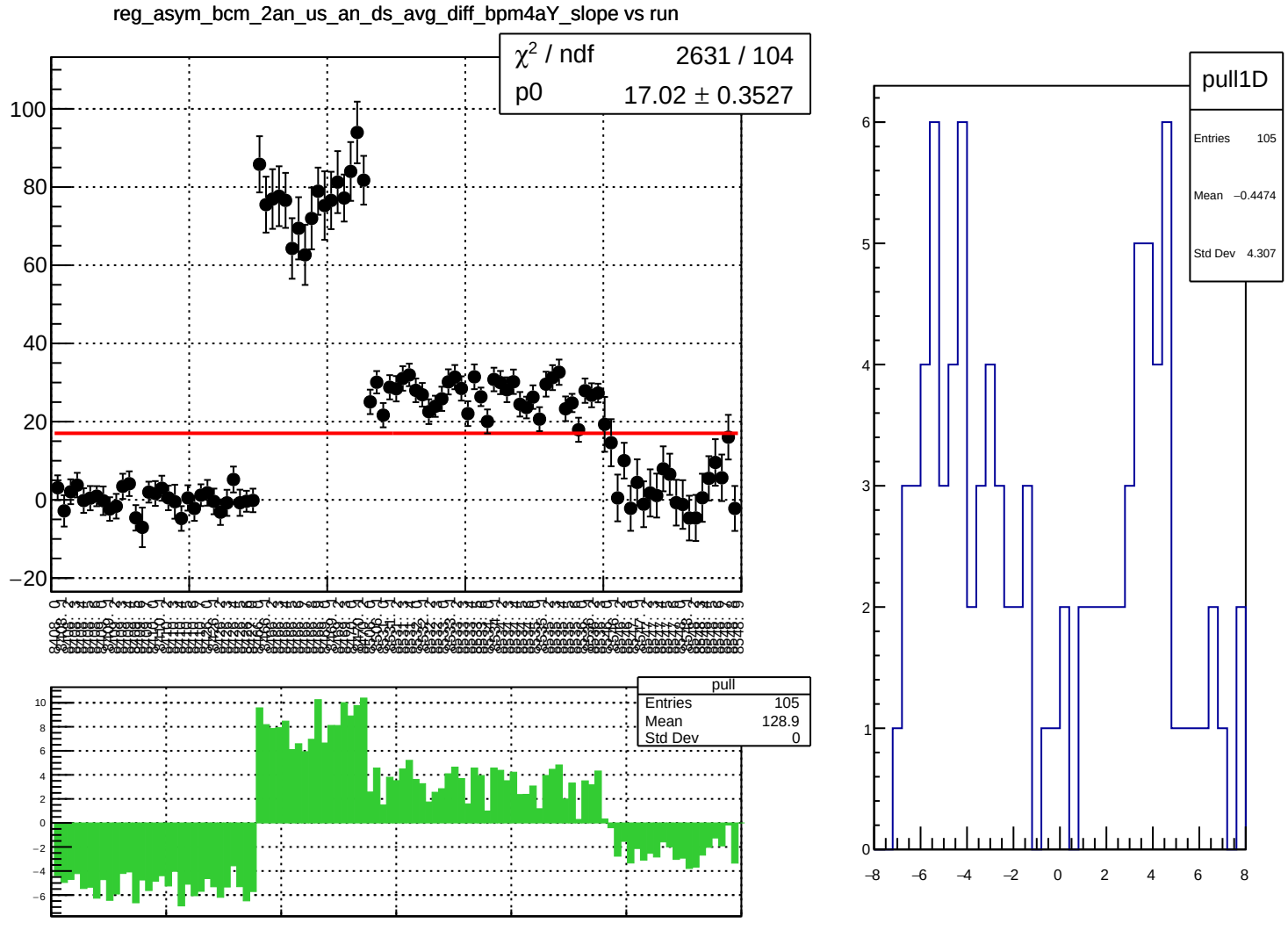

pull1D
Entries 105
Mean −0.4511
Std Dev 4.271
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

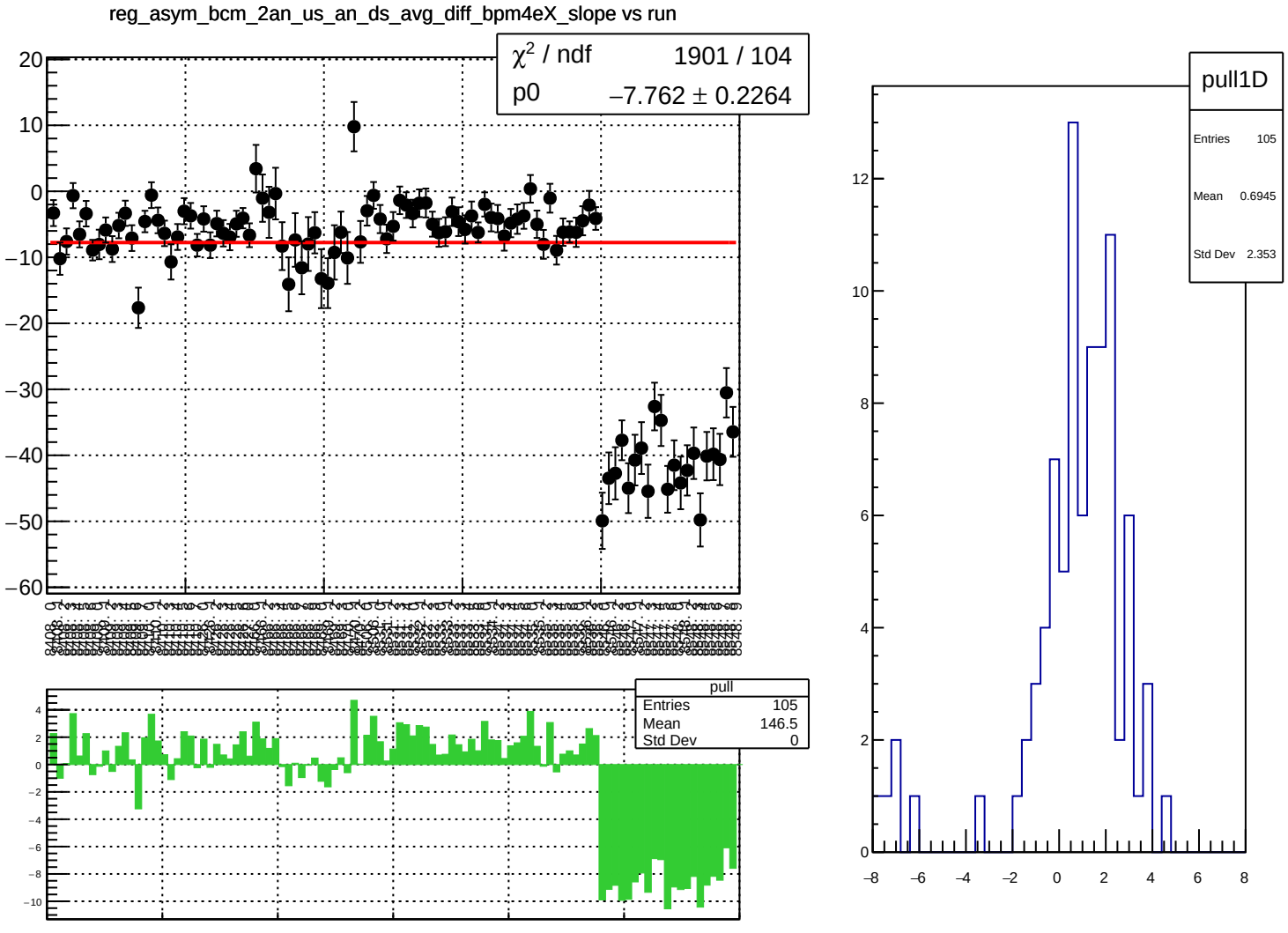

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 1897 / 104
p0 −7.848 ± 0.231
pull
Entries 105
Mean 148.5
Std Dev 0
pull1D
Entries 105
Mean 0.811
Std Dev 2.185

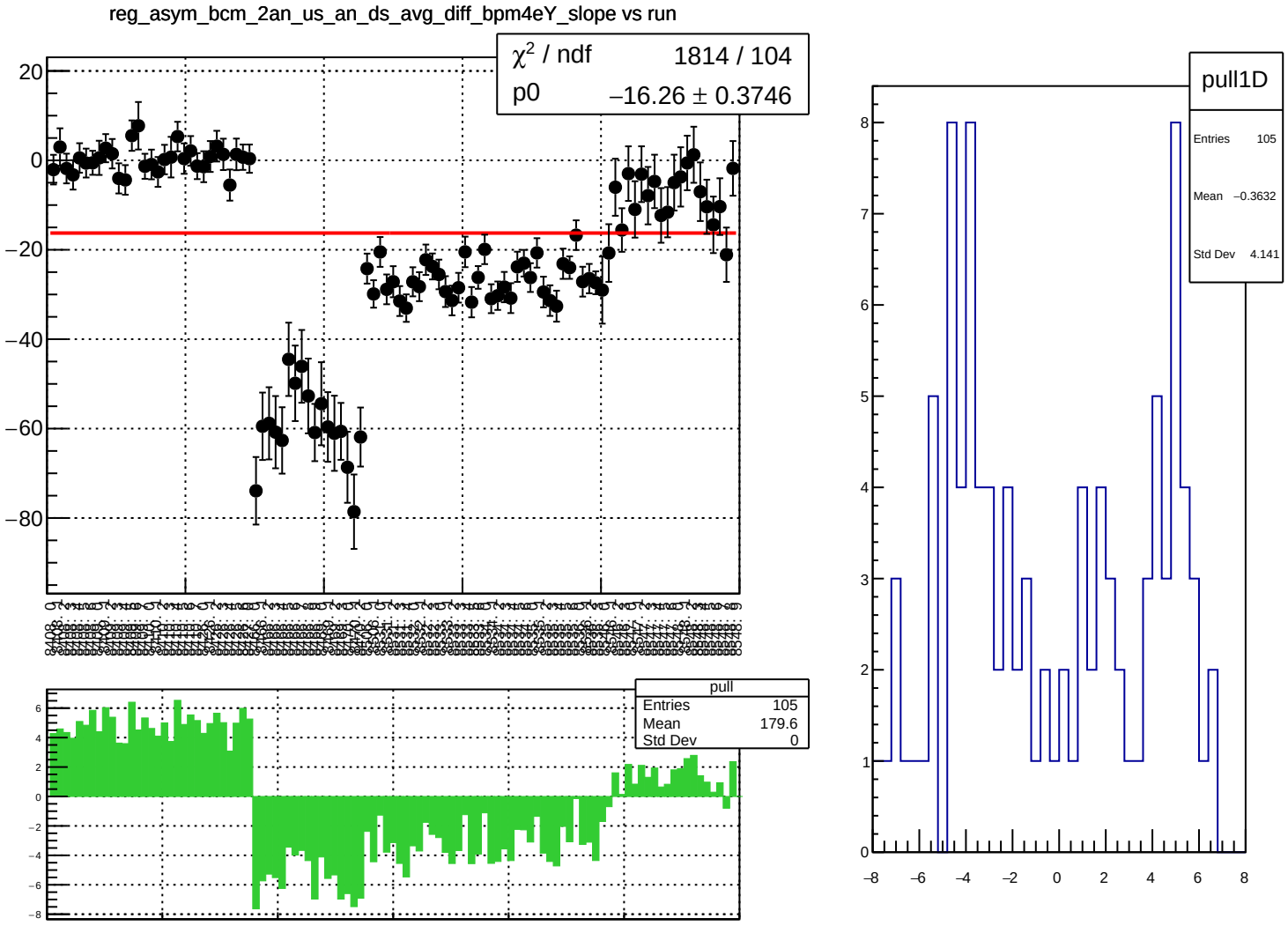

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 1803 / 104
p0 −16.19 ± 0.3822
pull
Entries 105
Mean 176
Std Dev 0
pull1D
Entries 105
Mean −0.3678
Std Dev 4.128

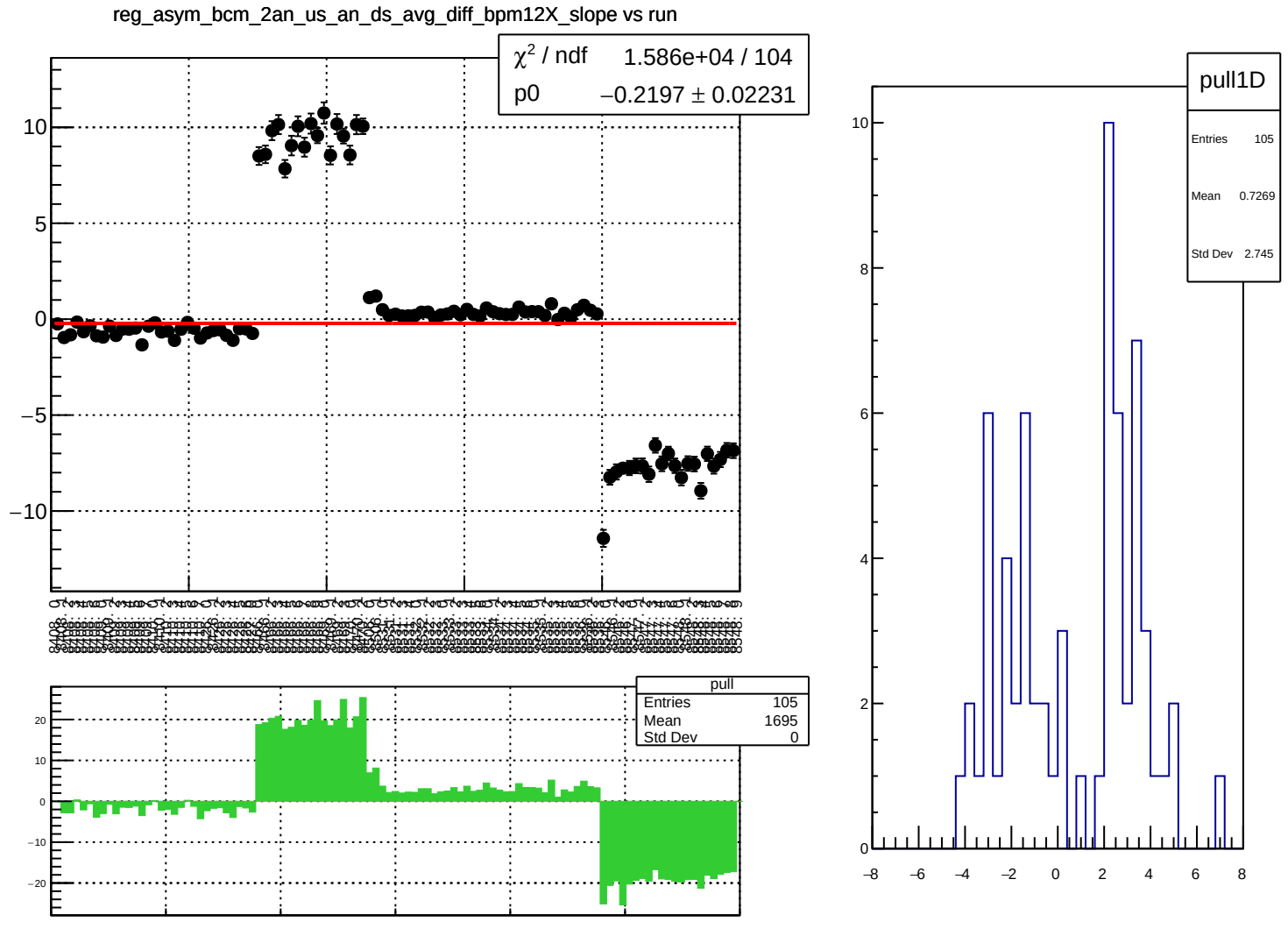

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 1.571e+04 / 104
p0 −0.2148 ± 0.02277
pull
Entries 105
Mean 1857
Std Dev 0
pull1D
Entries 105
Mean 0.7431
Std Dev 2.731

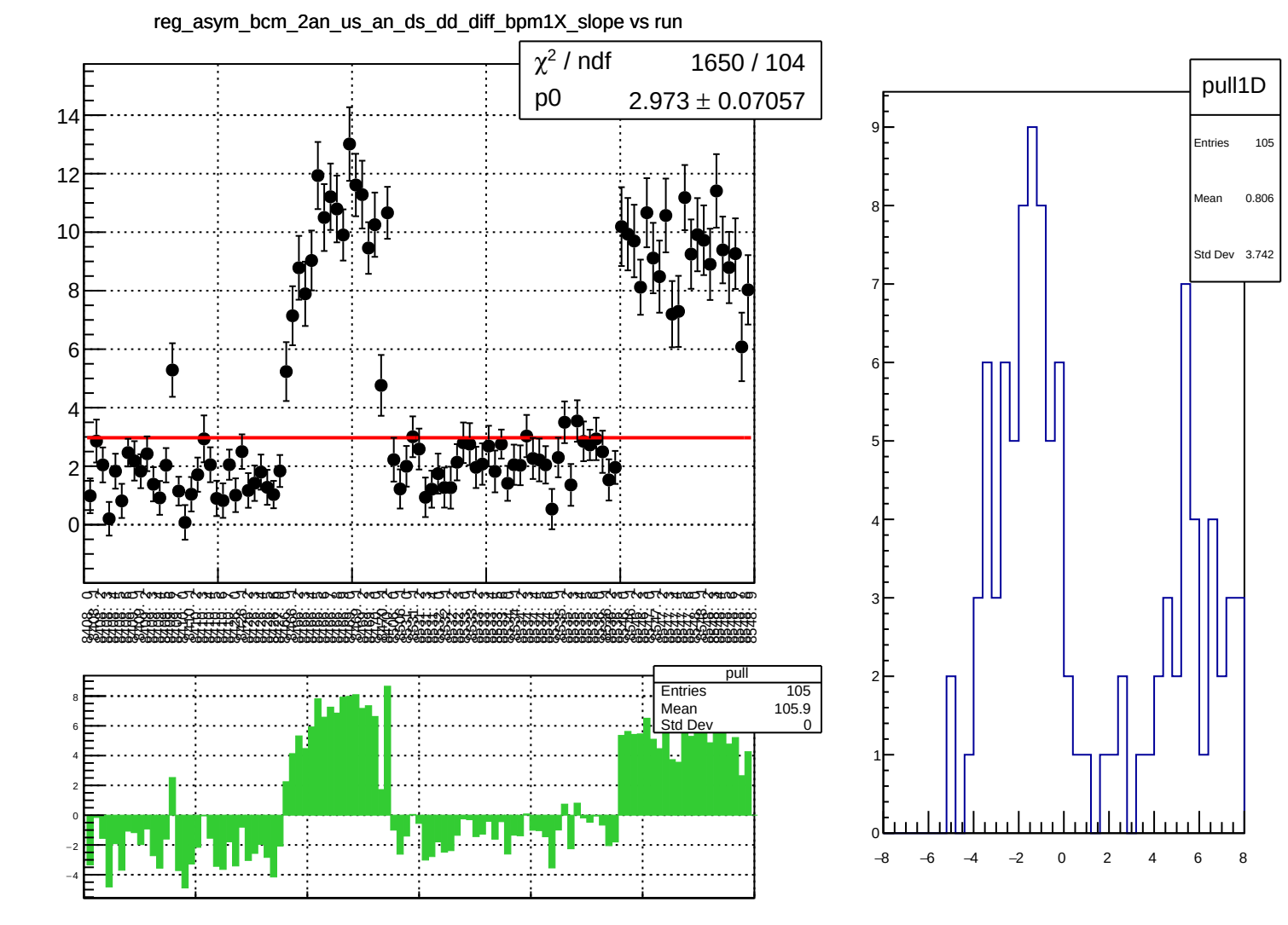

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 1678 / 104
p0 8.885 ± 0.2082
pull
Entries 105
Mean 105.2
Std Dev 0
pull1D
Entries 105
Mean 0.7635
Std Dev 3.721

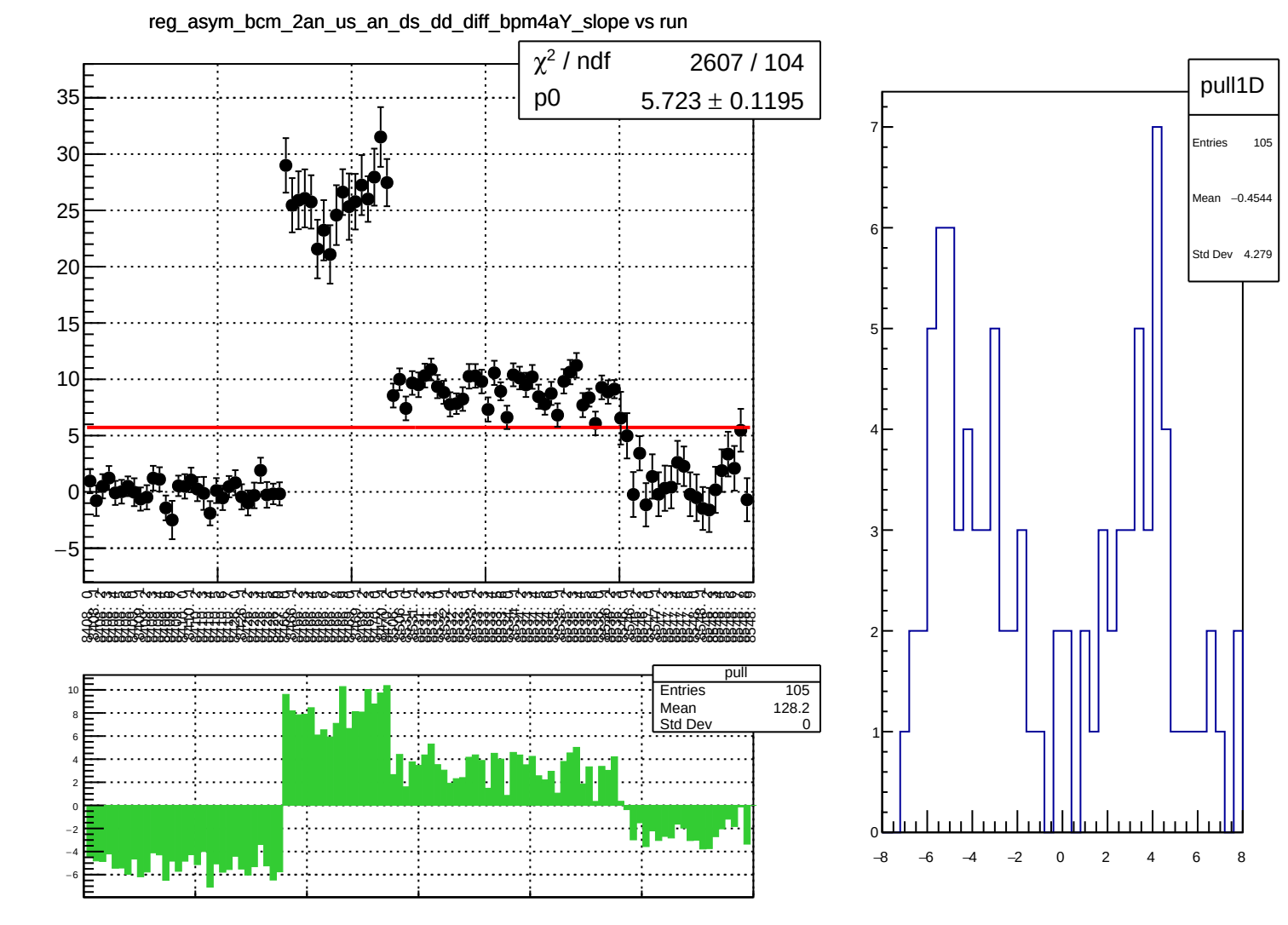

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 2631 / 104
p0 17.02 ± 0.3527
100
80
60
40
20
0
−20
pull
Entries 105
Mean 128.9
Std Dev 0
10
8
6
4
2
0
−2
−4
−6
pull1D
Entries 105
Mean −0.4474
Std Dev 4.307
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

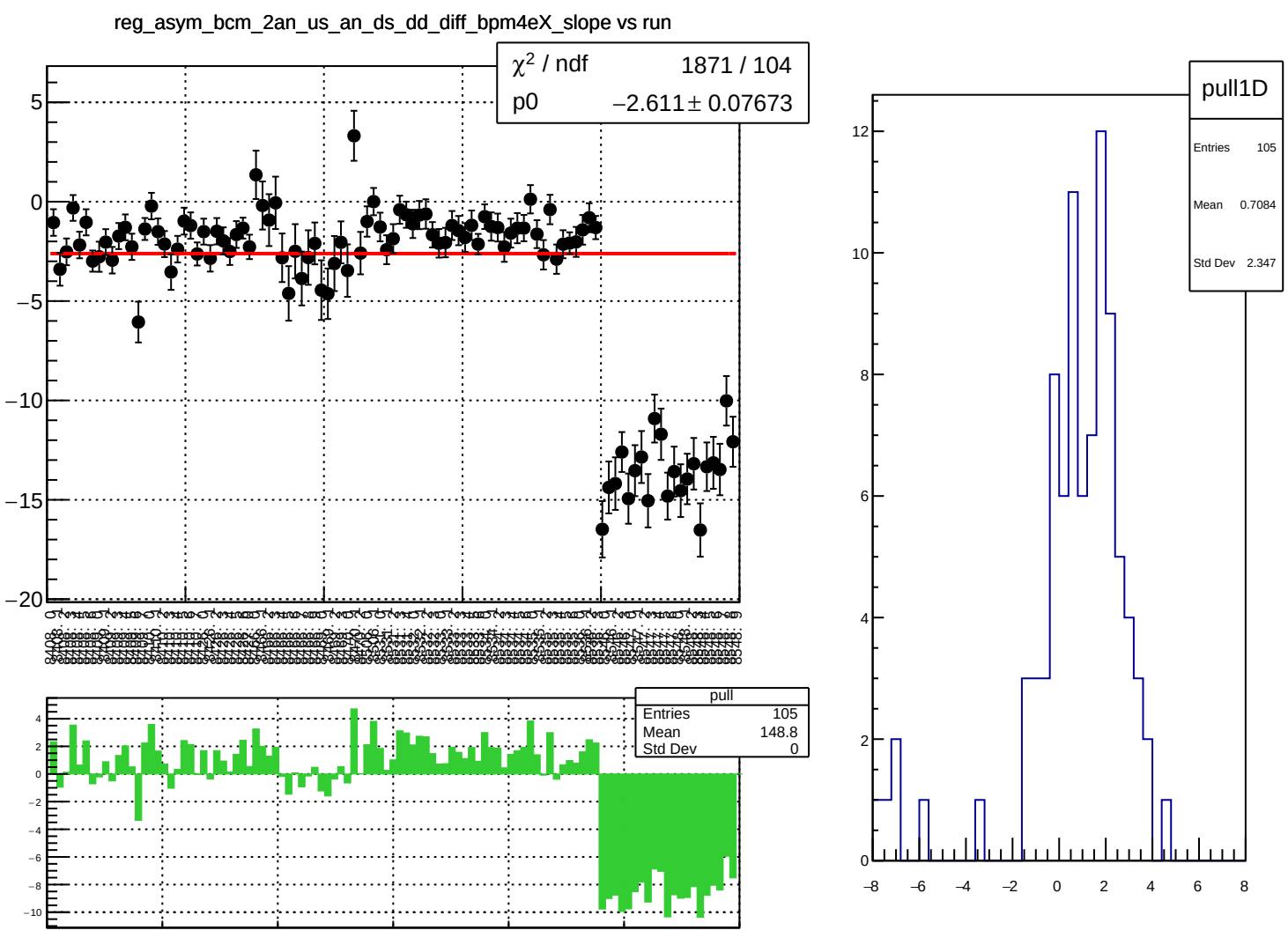

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 1901 / 104
p0 −7.762 ± 0.2264
pull
Entries 105
Mean 146.5
Std Dev 0
pull1D
Entries 105
Mean 0.6945
Std Dev 2.353

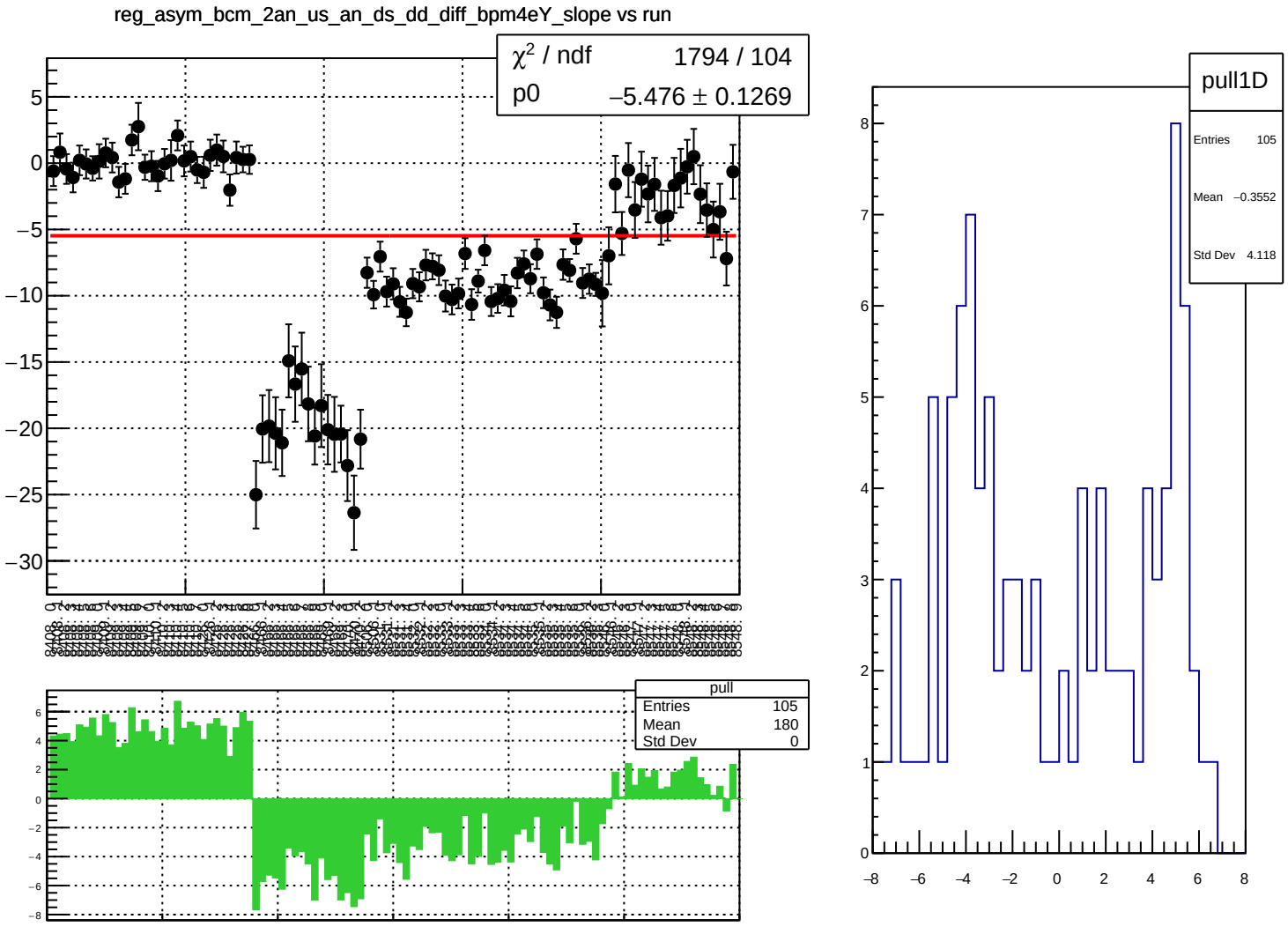

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 1814 / 104
p0 −16.26 ± 0.3746
pull
Entries 105
Mean 179.6
Std Dev 0
pull1D
Entries 105
Mean −0.3632
Std Dev 4.141

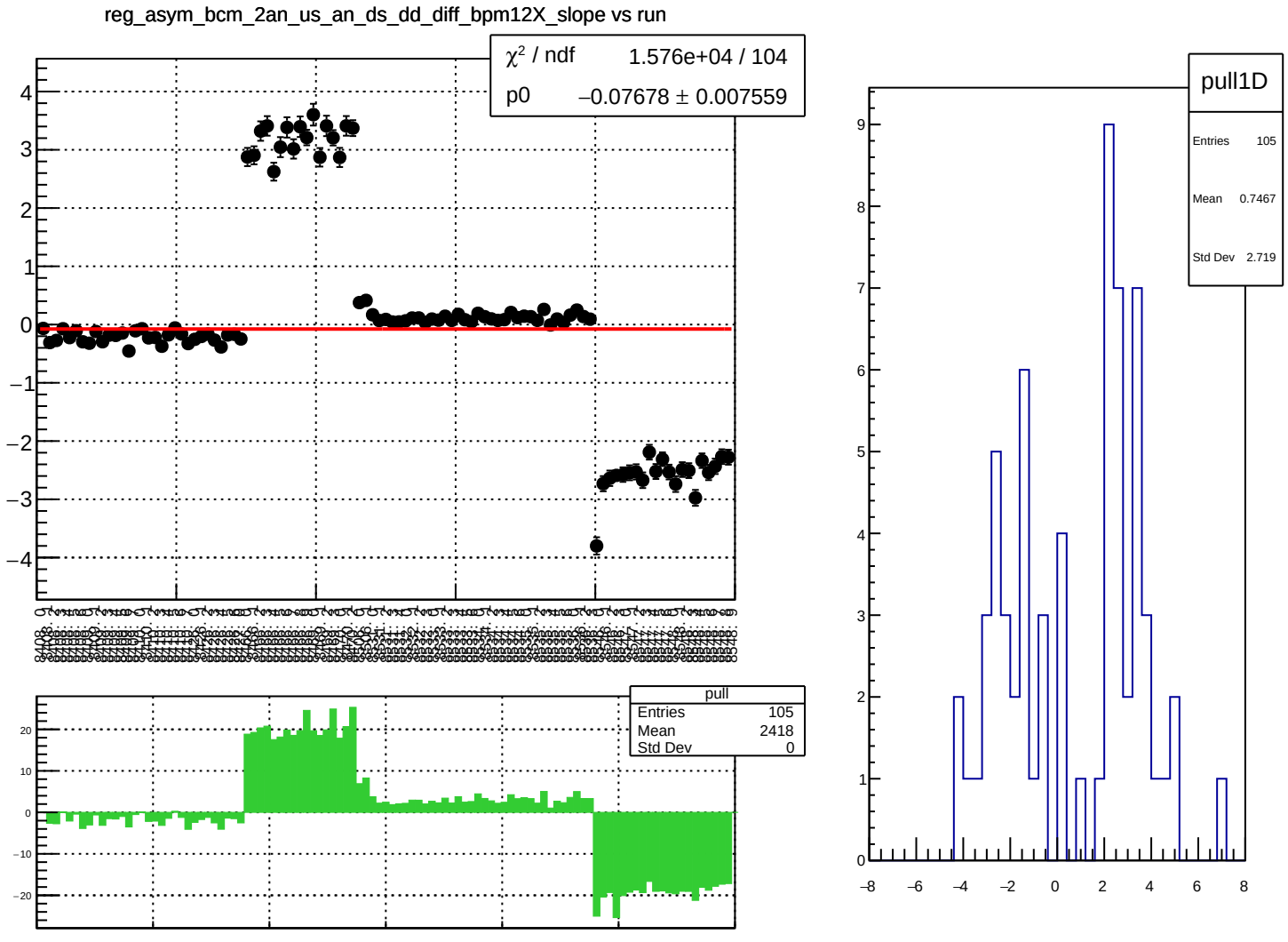

reg_asym_bcm_2an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 1.586e+04 / 104
p0 −0.2197 ± 0.02231
pull
Entries 105
Mean 1695
Std Dev 0
pull1D
Entries 105
Mean 0.7269
Std Dev 2.745

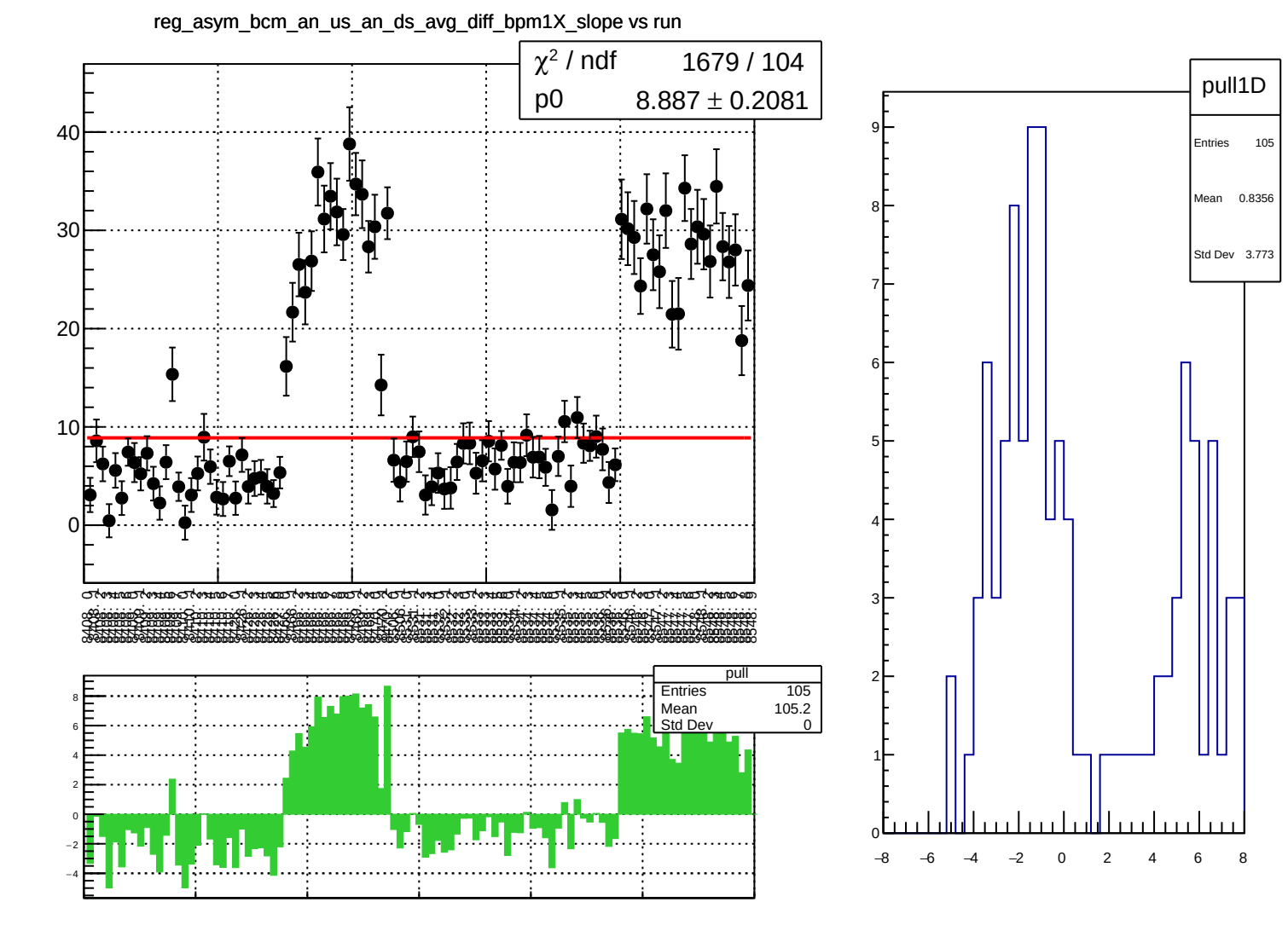

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 1650 / 104
p0 2.973 ± 0.07057
pull
Entries 105
Mean 105.9
Std Dev 0
pull1D
Entries 105
Mean 0.806
Std Dev 3.742

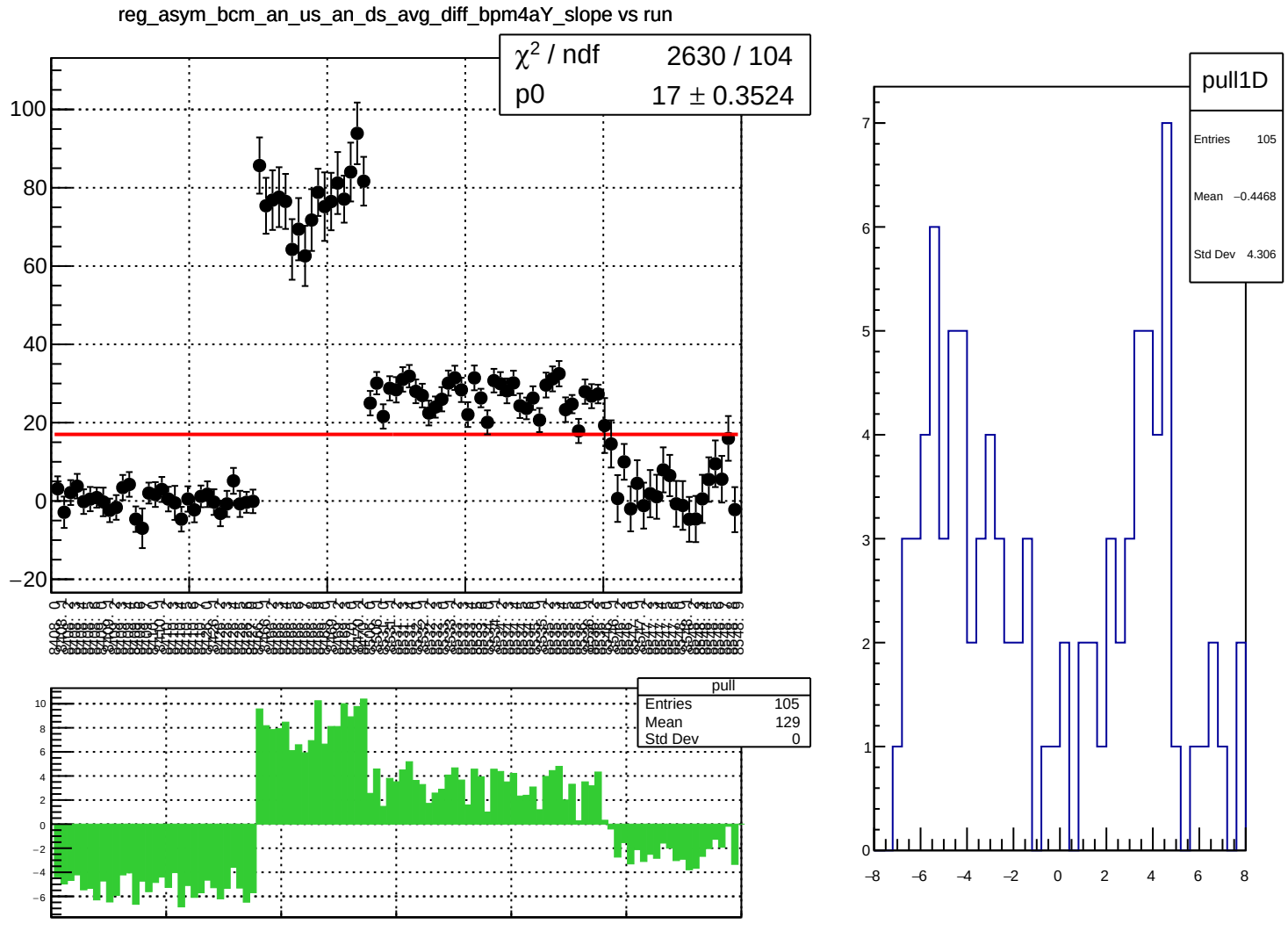

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 2607 / 104
p0 5.723 ± 0.1195
pull
Entries 105
Mean 128.2
Std Dev 0
pull1D
Entries 105
Mean −0.4544
Std Dev 4.279

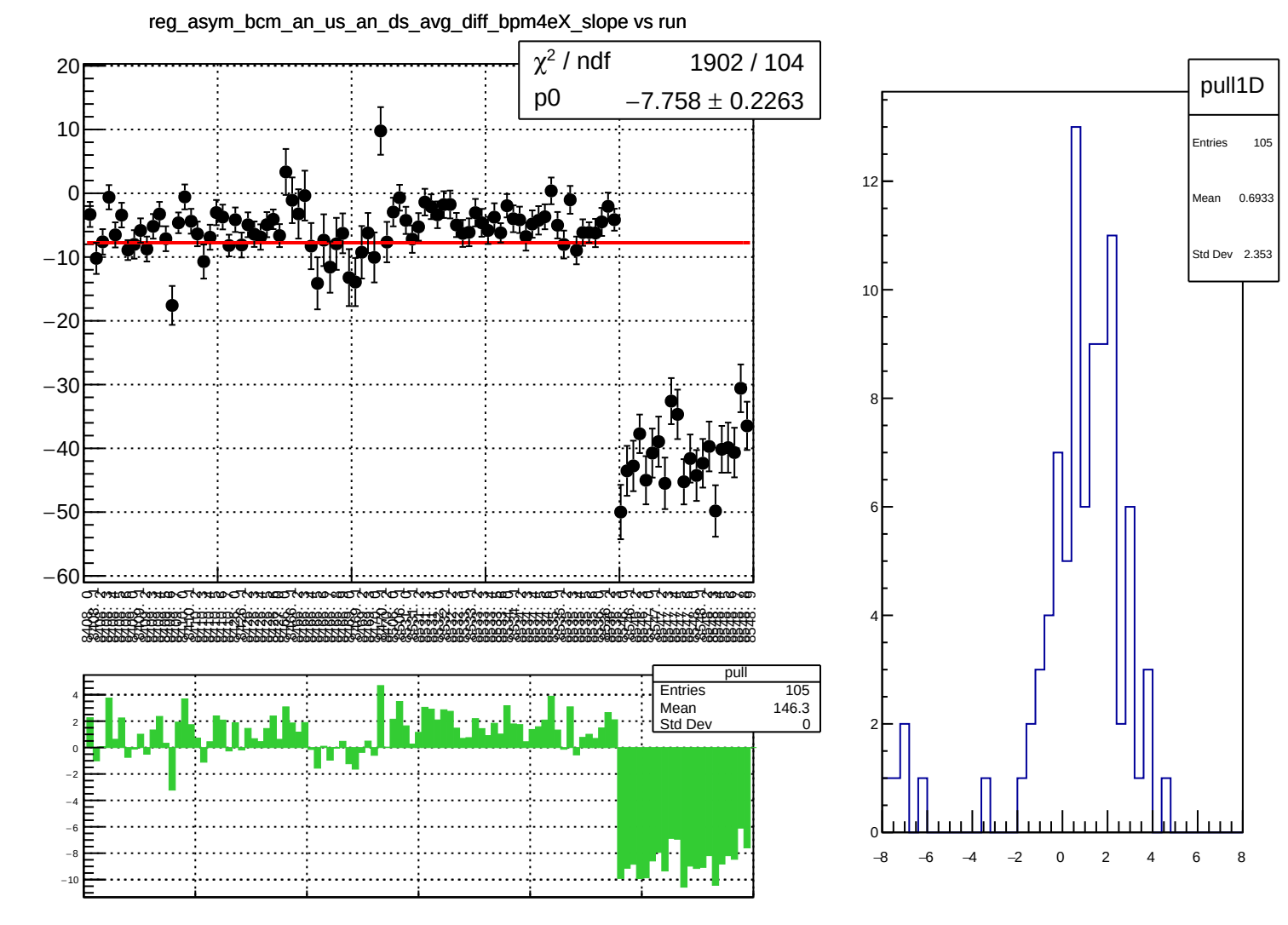

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 1871 / 104
p0 −2.611 ± 0.07673
pull
Entries 105
Mean 148.8
Std Dev 0
pull1D
Entries 105
Mean 0.7084
Std Dev 2.347

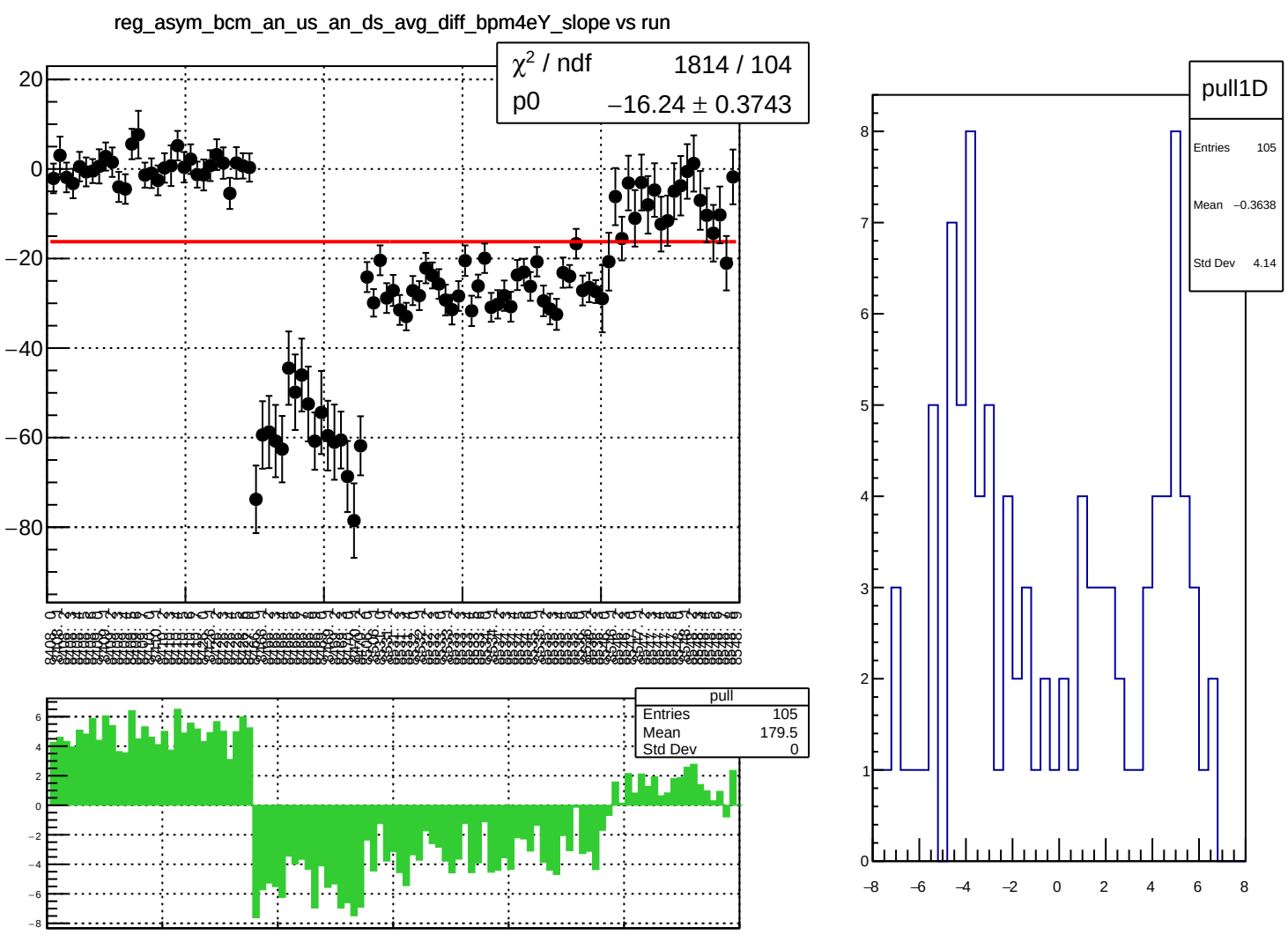

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 1794 / 104
p0 −5.476 ± 0.1269
pull
Entries 105
Mean 180
Std Dev 0
pull1D
Entries 105
Mean −0.3552
Std Dev 4.118

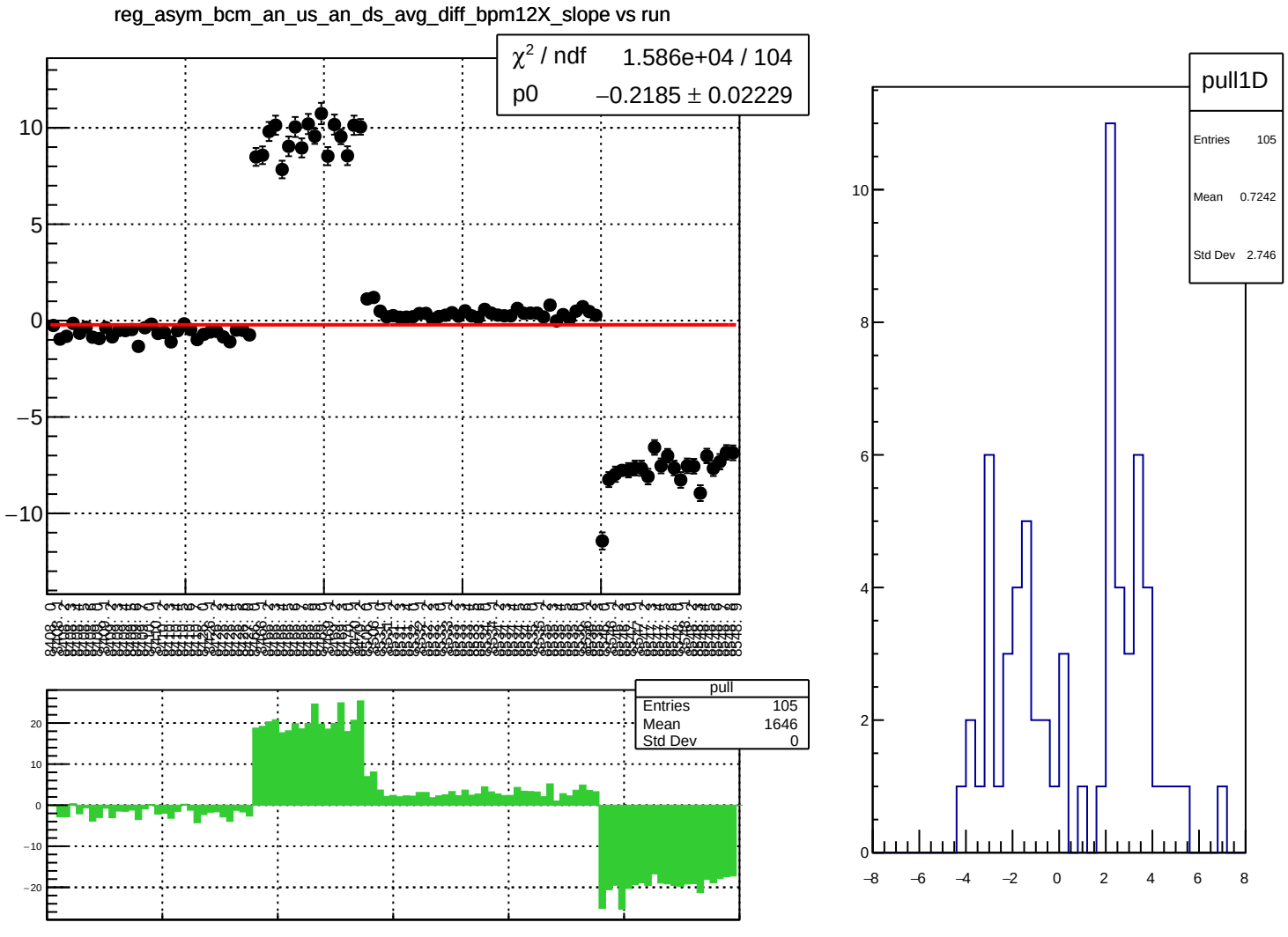

reg_asym_bcm_2an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 1.576e+04 / 104
p0 −0.07678 ± 0.007559
pull
Entries 105
Mean 2418
Std Dev 0
pull1D
Entries 105
Mean 0.7467
Std Dev 2.719

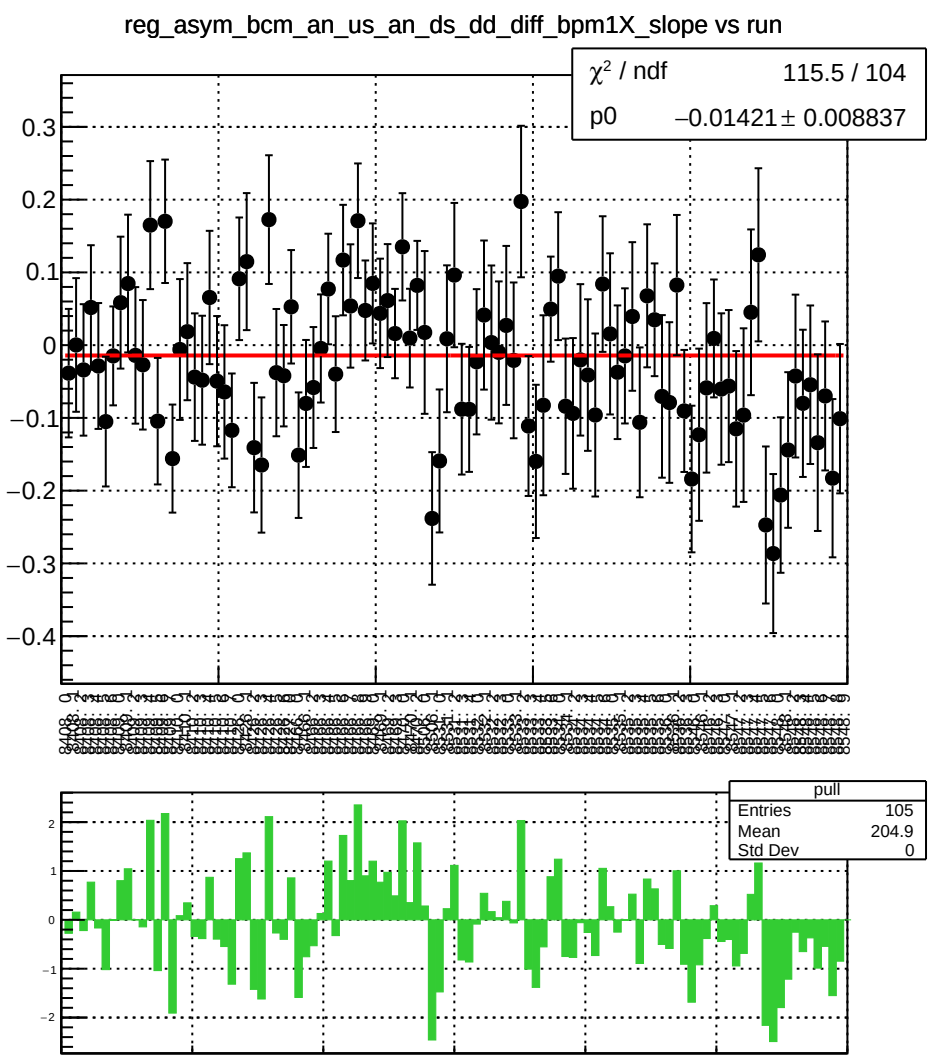

reg_asym_bcm_an_us_an_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 1679 / 104
p0 8.887 ± 0.2081
40
30
20
10
0
pull
Entries 105
Mean 105.2
Std Dev 0
8
6
4
2
0
−2
−4
pull1D
Entries 105
Mean 0.8356
Std Dev 3.773
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

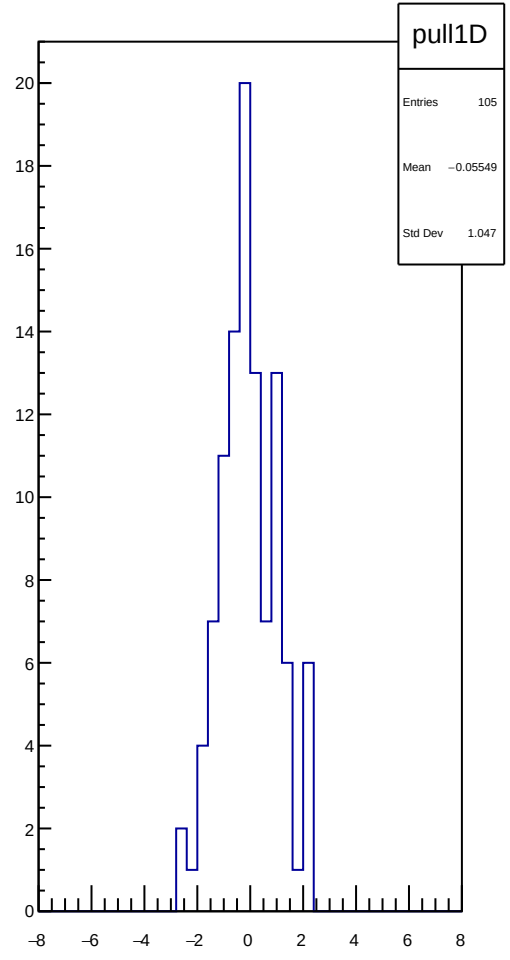

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 2630 / 104
p0 17 ± 0.3524
100
80
60
40
20
0
−20
pull
Entries 105
Mean 129
Std Dev 0
10
8
6
4
2
0
−2
−4
−6
pull1D
Entries 105
Mean −0.4468
Std Dev 4.306
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

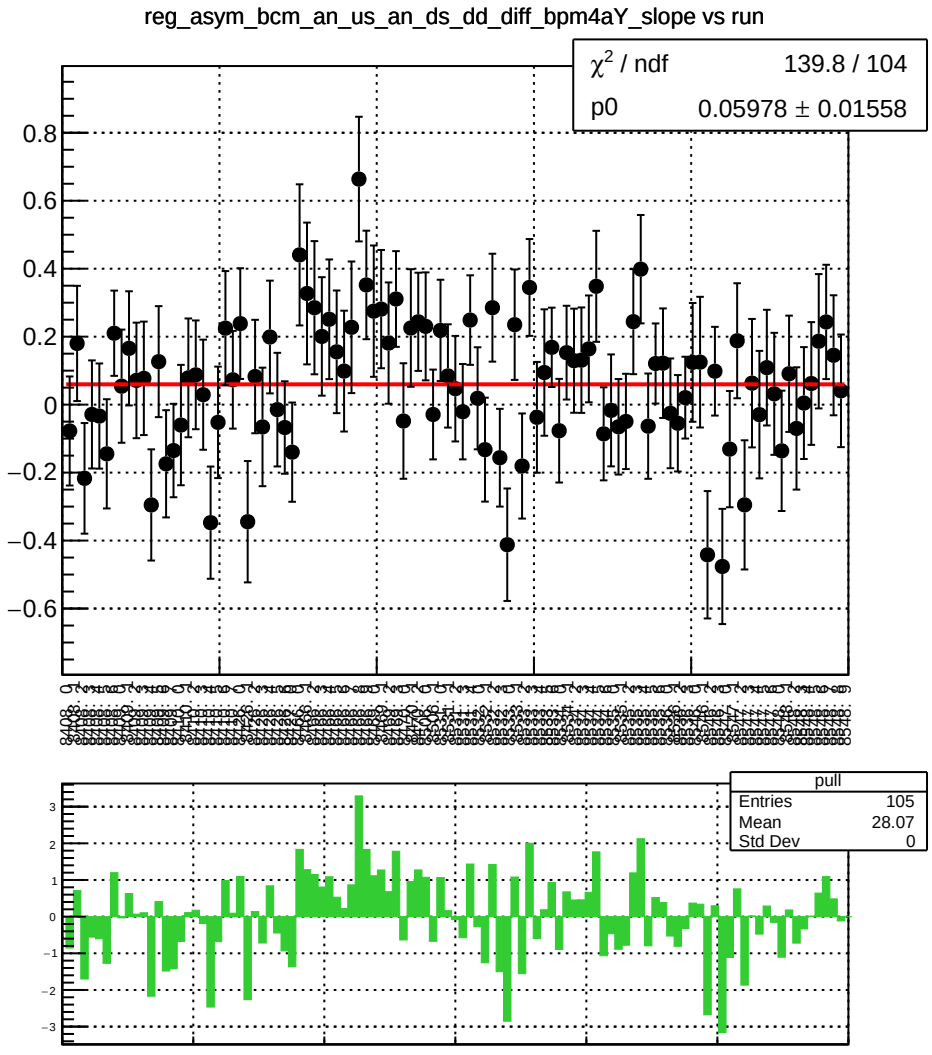

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 1902 / 104
p0 −7.758 ± 0.2263
pull
Entries 105
Mean 146.3
Std Dev 0
pull1D
Entries 105
Mean 0.6933
Std Dev 2.353

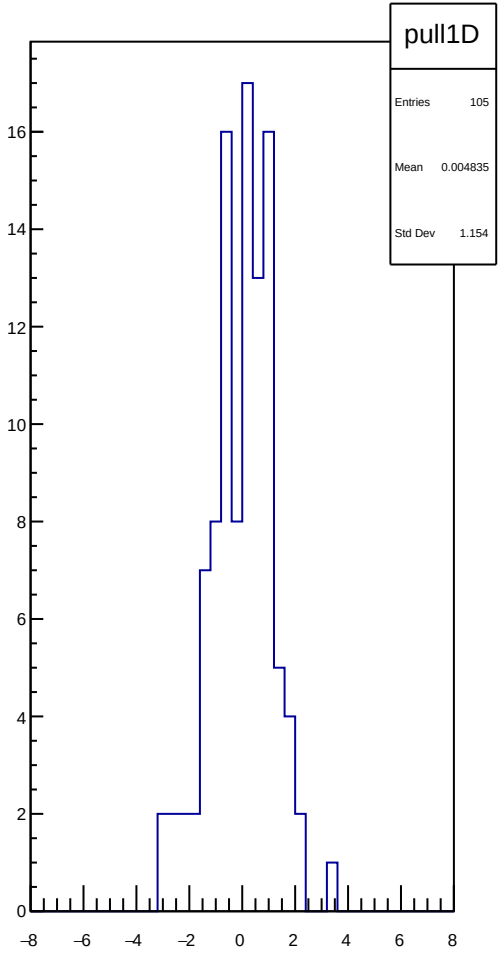

reg_asym_bcm_an_us_an_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 1814 / 104
p0 −16.24 ± 0.3743
pull
Entries 105
Mean 179.5
Std Dev 0
pull1D
Entries 105
Mean −0.3638
Std Dev 4.14

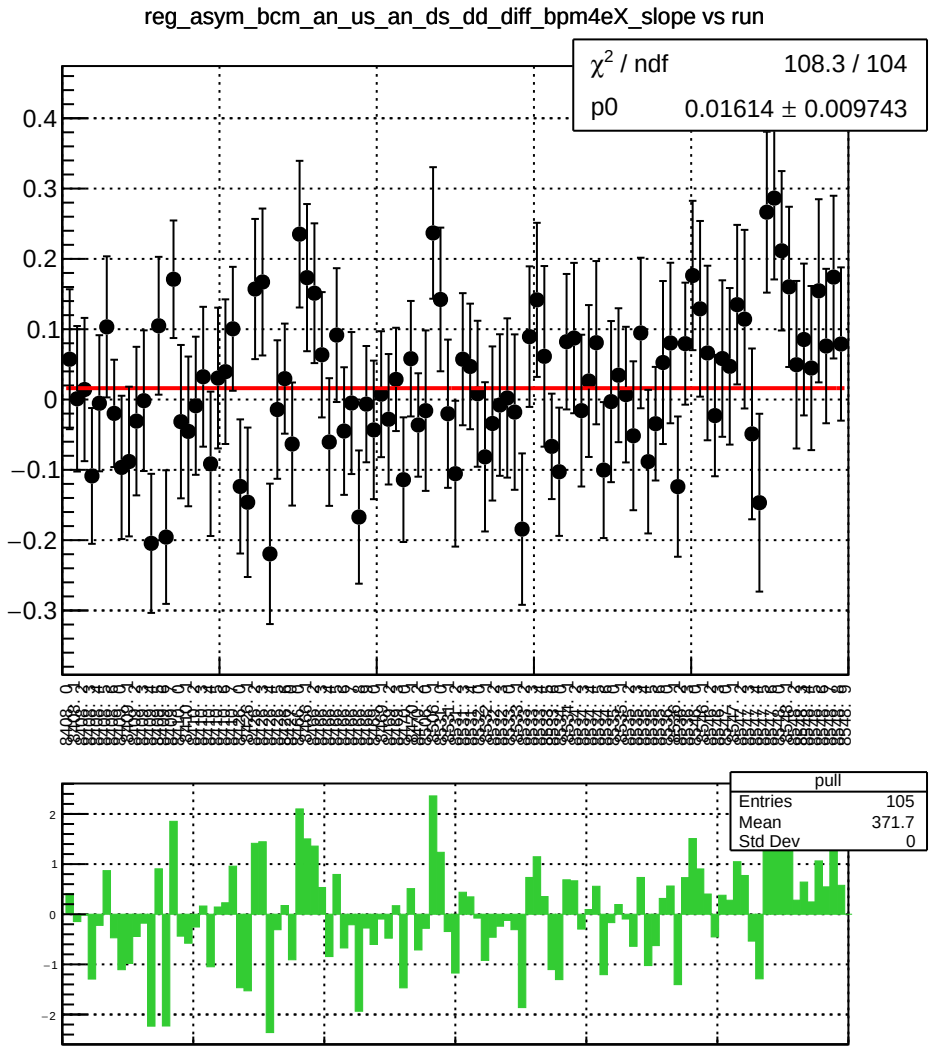

reg_asym_bcm_an_us_an_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 1.586e+04 / 104
p0 −0.2185 ± 0.02229
10
5
0
−5
−10
pull
Entries 105
Mean 1646
Std Dev 0
20
10
0
−10
−20
pull1D
Entries 105
Mean 0.7242
Std Dev 2.746
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

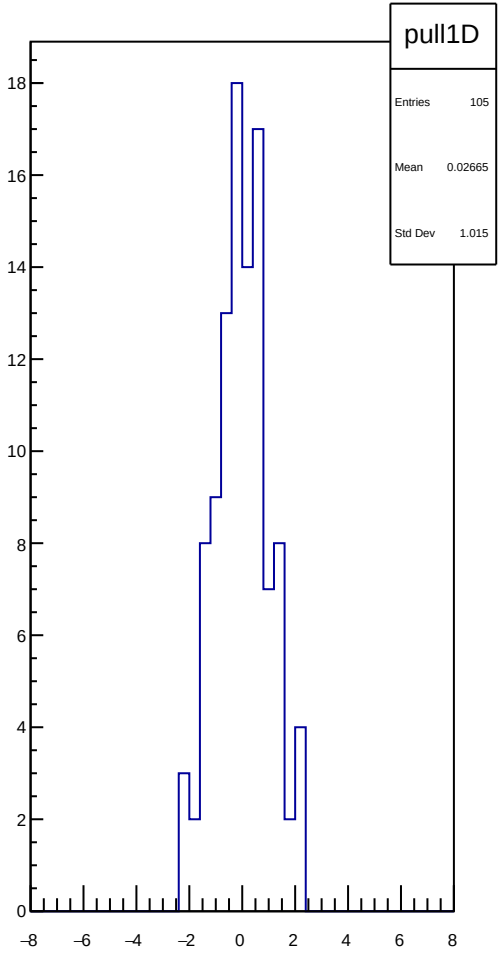

reg_asym_bcm_an_us_an_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 115.5 / 104
p0 −0.01421 ± 0.008837
pull
Entries 105
Mean 204.9
Std Dev 0

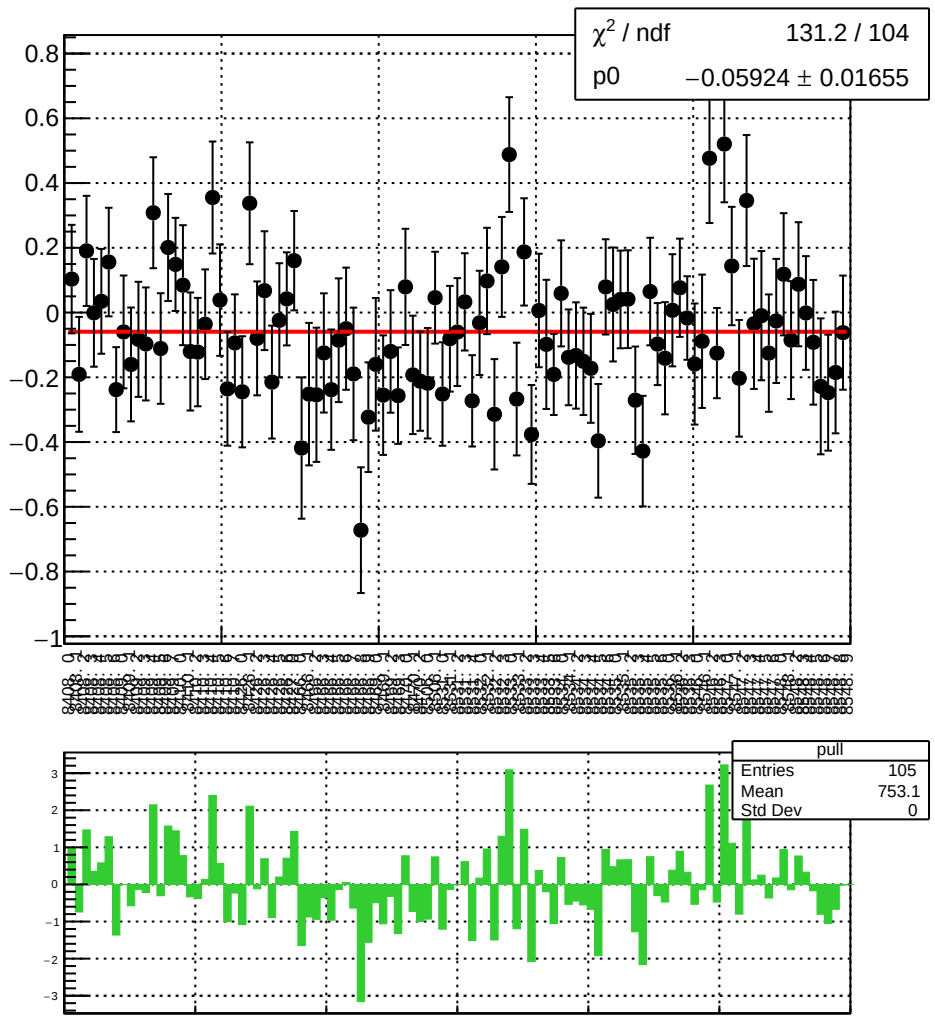

pull1D
Entries 105
Mean −0.05549
Std Dev 1.047

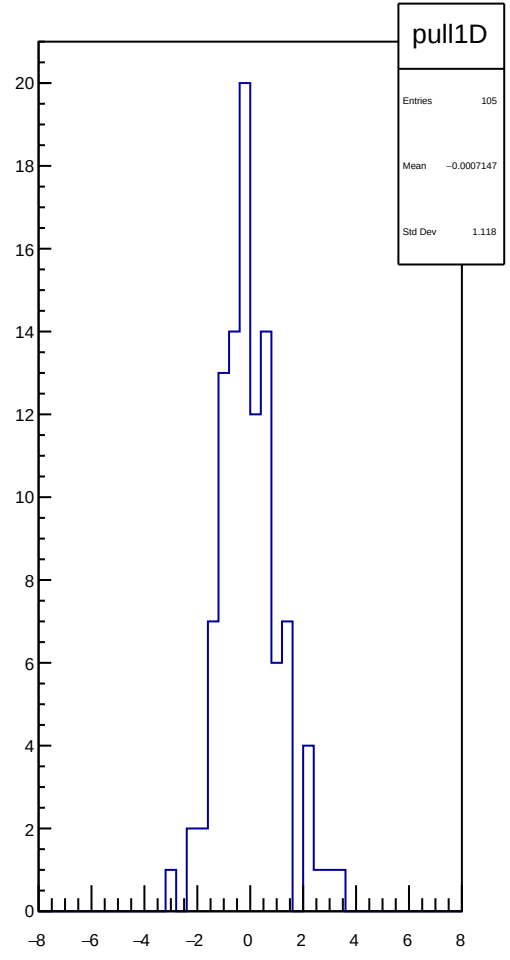

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 139.8 / 104
p0 0.05978 ± 0.01558
pull
Entries 105
Mean 28.07
Std Dev 0

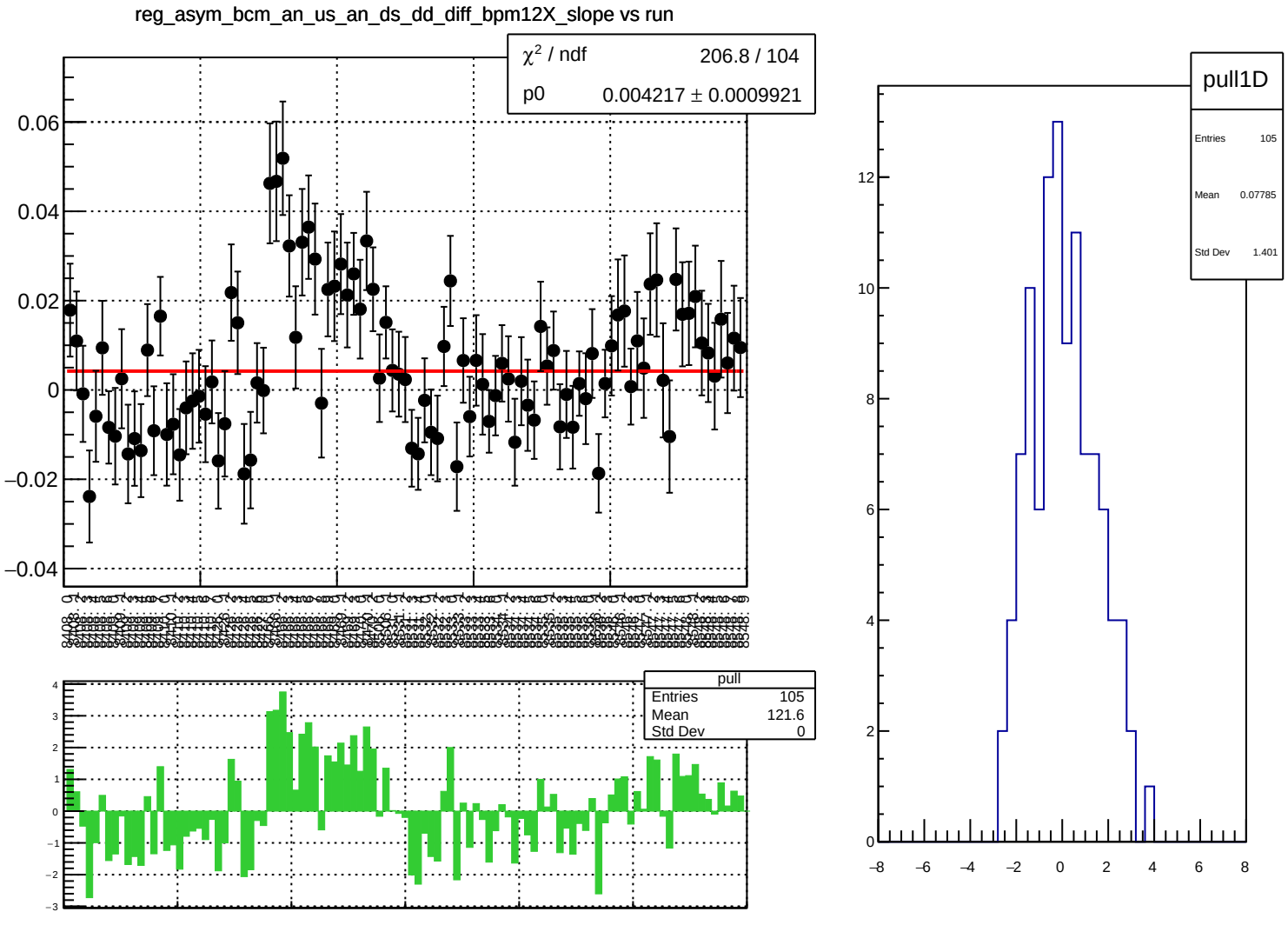

pull1D
Entries 105
Mean 0.004835
Std Dev 1.154

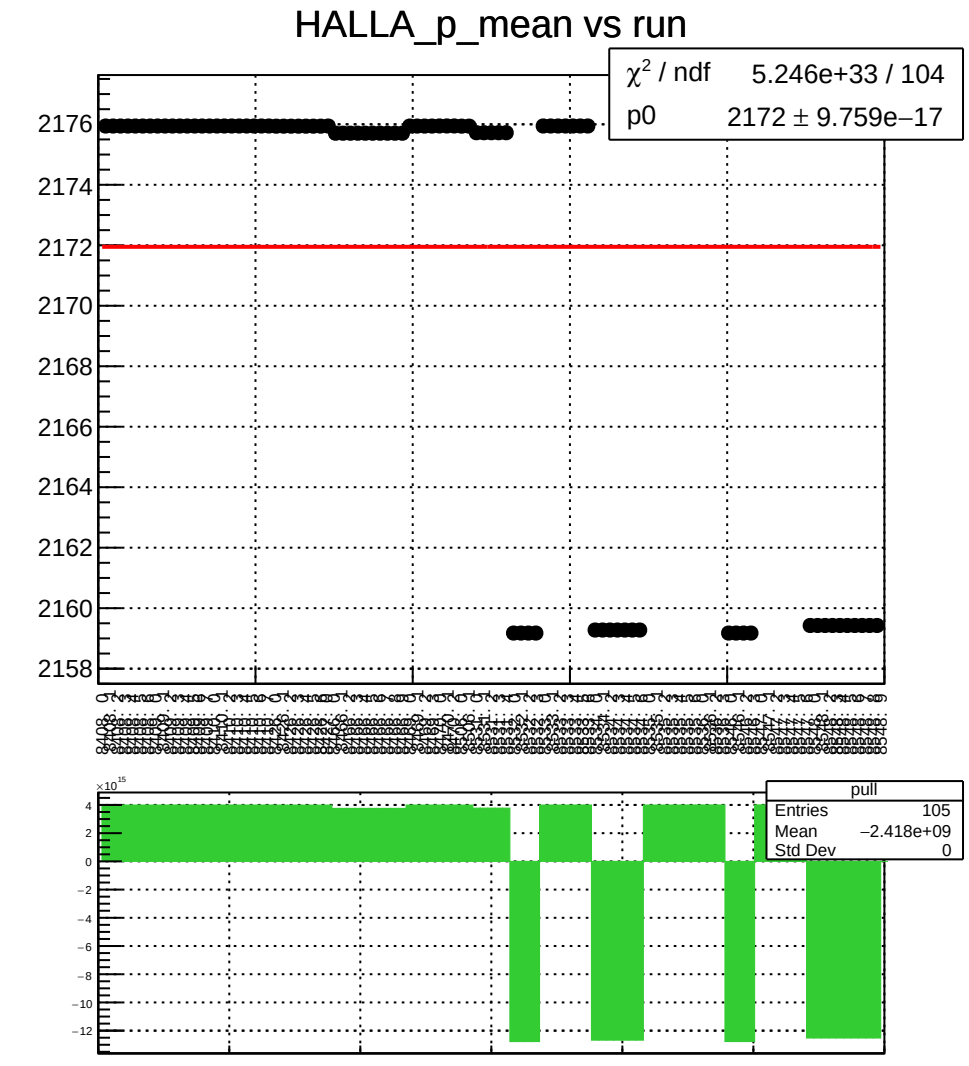

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 108.3 / 104
p0 0.01614 ± 0.009743
pull
Entries 105
Mean 371.7
Std Dev 0

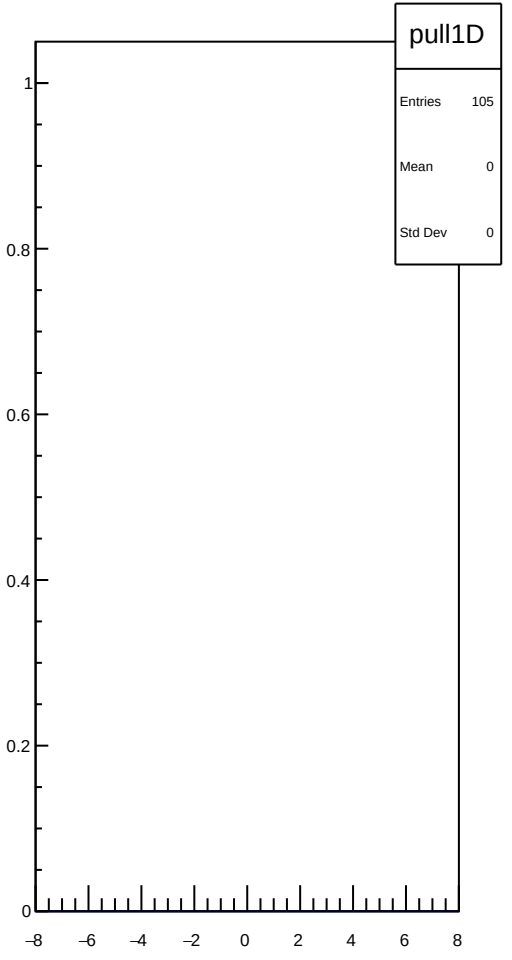

pull1D
Entries 105
Mean 0.02665
Std Dev 1.015

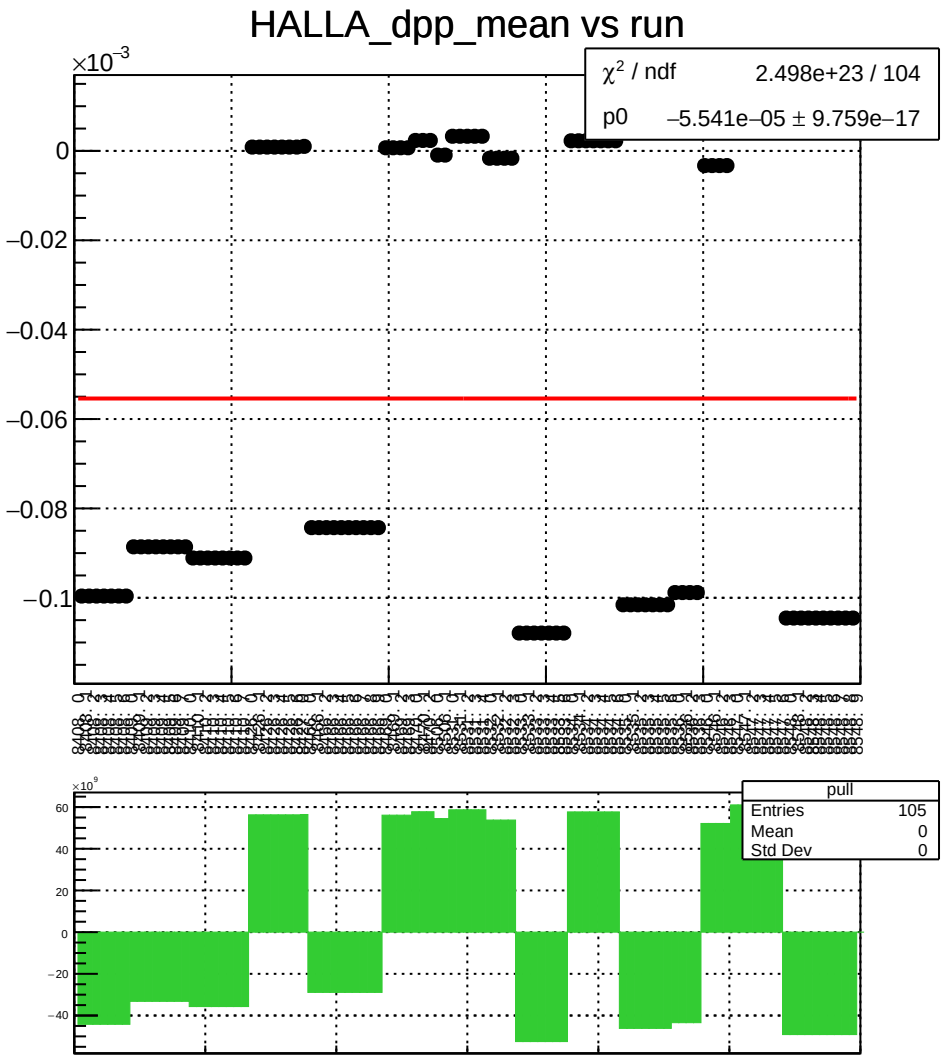

reg_asym_bcm_an_us_an_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 131.2 / 104
p0 −0.05924 ± 0.01655
pull
Entries 105
Mean 753.1
Std Dev 0

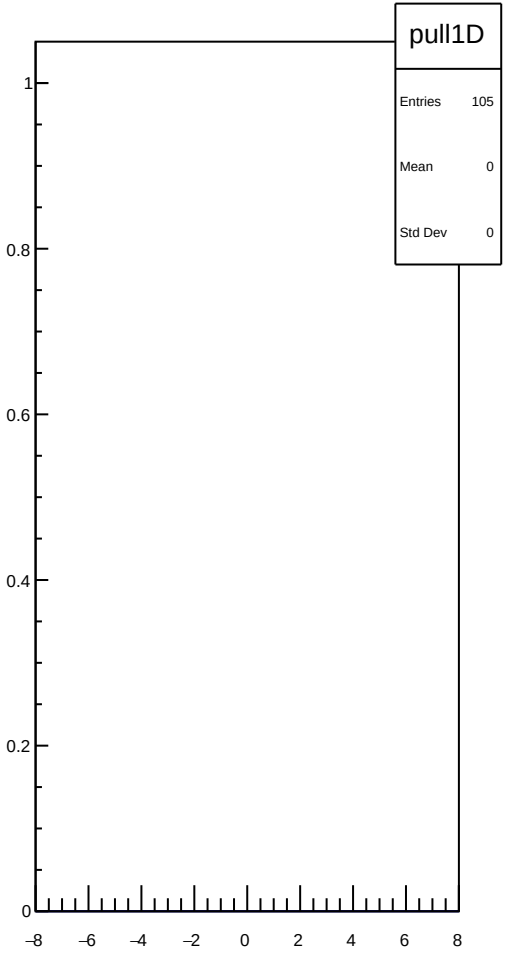

pull1D
Entries 105
Mean −0.0007147
Std Dev 1.118

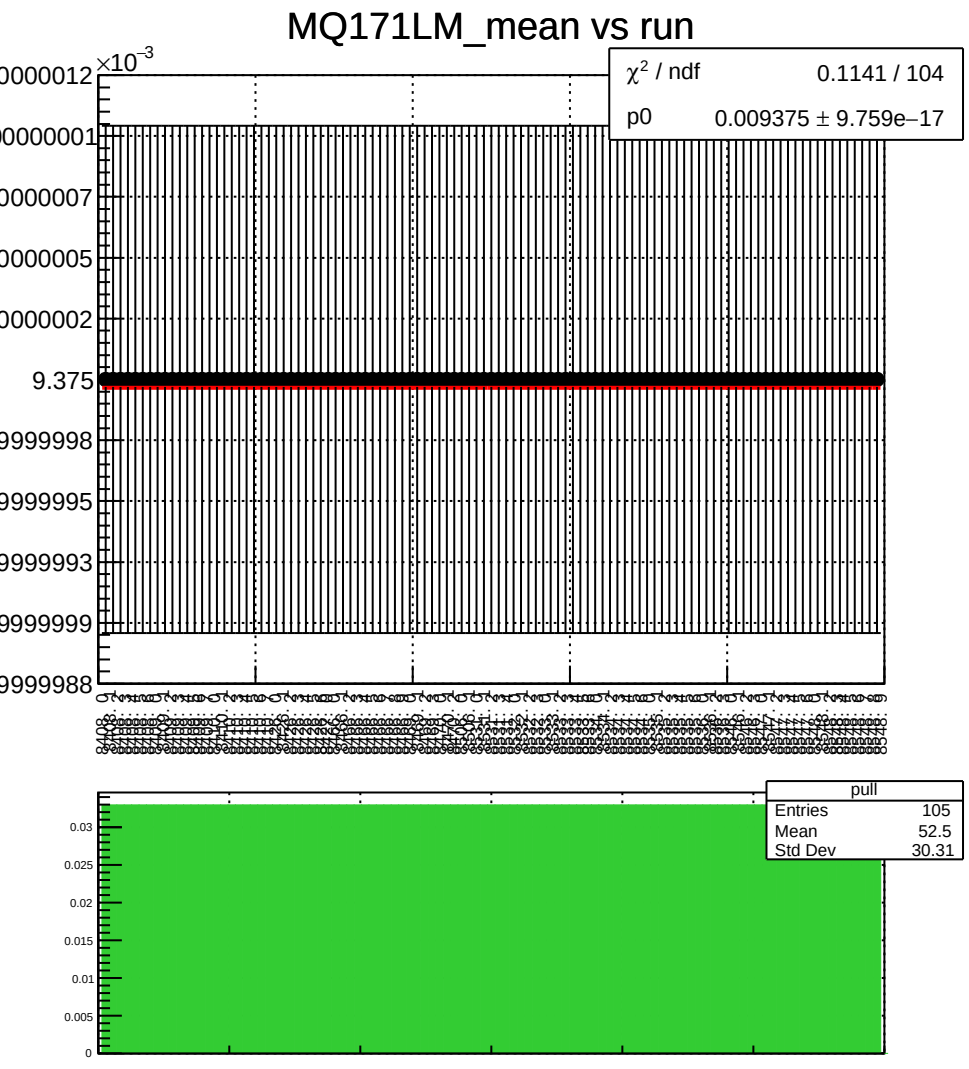

reg_asym_bcm_an_us_an_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 206.8 / 104
p0 0.004217 ± 0.0009921
0.06
0.04
0.02
0
−0.02
−0.04
pull
Entries 105
Mean 121.6
Std Dev 0
4
3
2
1
0
−1
−2
−3
pull1D
Entries 105
Mean 0.07785
Std Dev 1.401
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

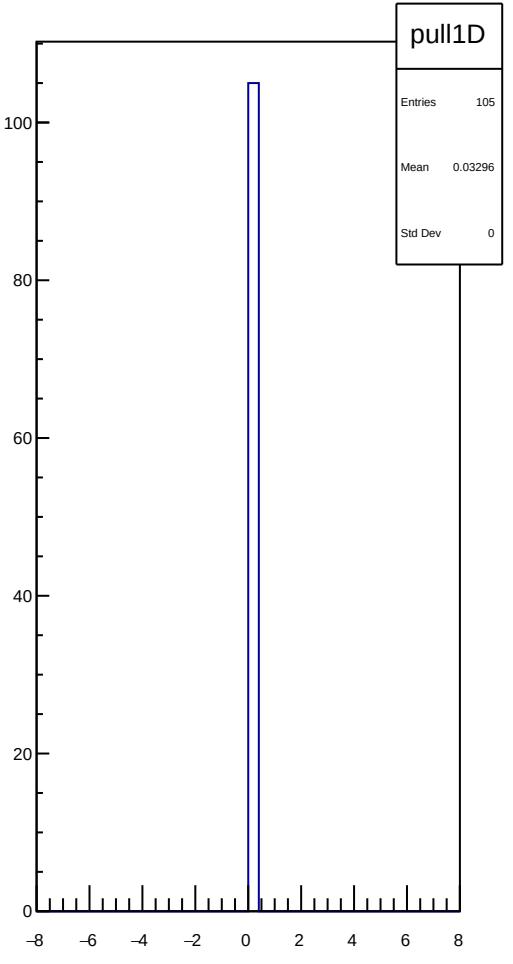

HALLA_p_mean vs run
χ² / ndf 5.246e+33 / 104
p0 2172 ± 9.759e−17
2176
2174
2172
2170
2168
2166
2164
2162
2160
2158
×10¹⁵
4
2
0
−2
−4
−6
−8
−10
−12
pull
Entries 105
Mean −2.418e+09
Std Dev 0

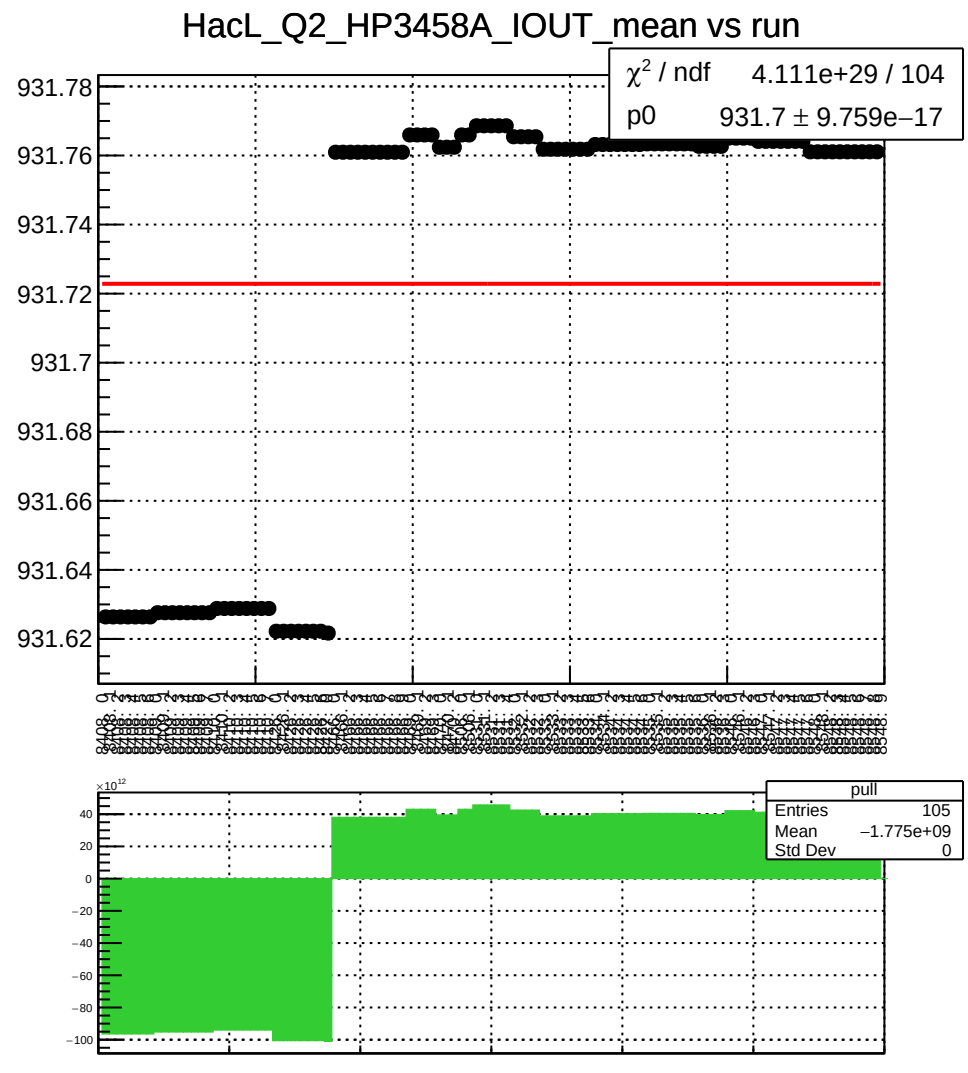

pull1D
Entries 105
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

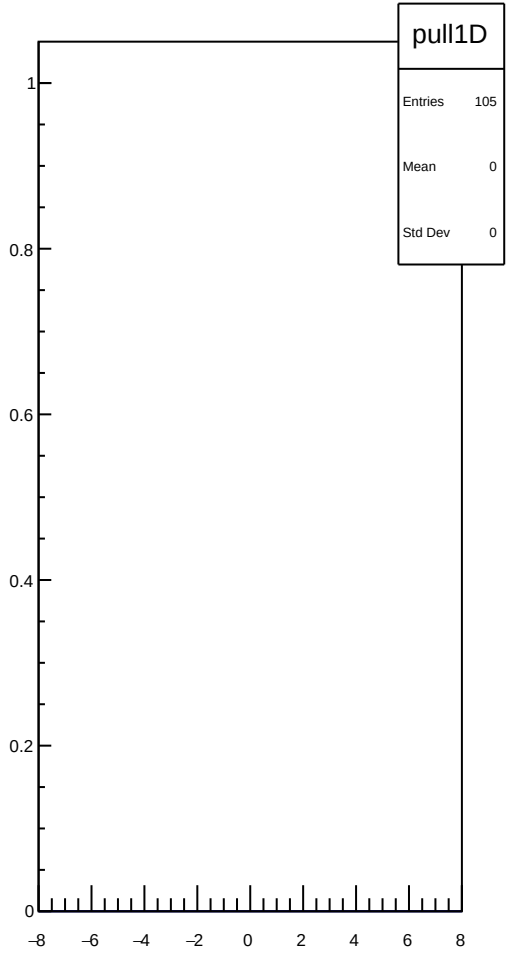

HALLA_dpp_mean vs run
×10⁻³
χ² / ndf 2.498e+23 / 104
p0 −5.541e−05 ± 9.759e−17
0
−0.02
−0.04
−0.06
−0.08
−0.1
×10⁹
60
40
20
0
−20
−40
pull
Entries 105
Mean 0
Std Dev 0

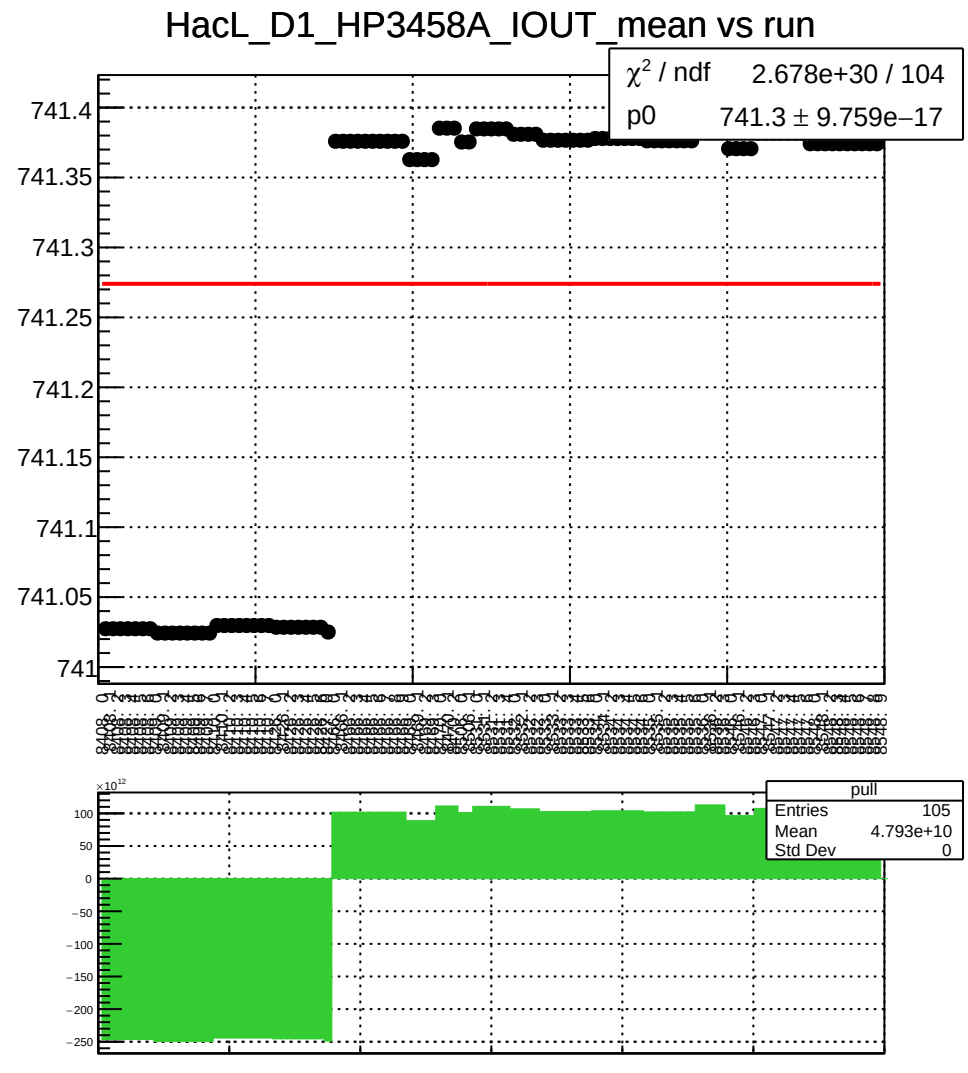

pull1D
Entries 105
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

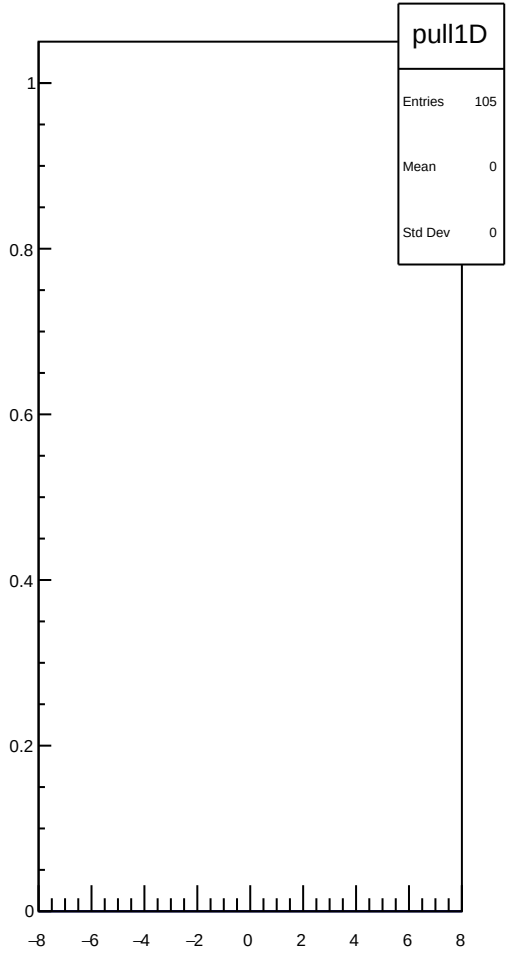

MQ171LM_mean vs run
×10⁻³
χ² / ndf 0.1141 / 104
p0 0.009375 ± 9.759e−17
pull
Entries 105
Mean 52.5
Std Dev 30.31

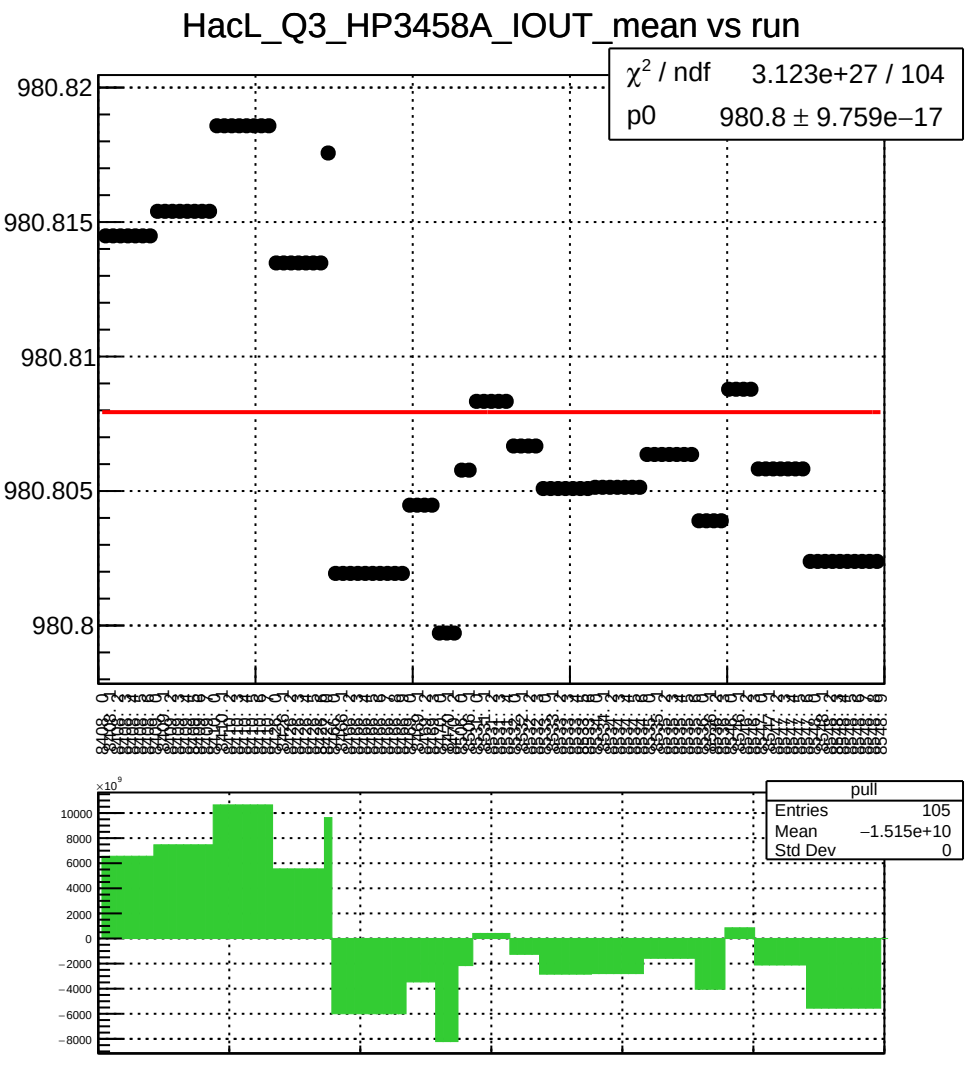

pull1D
Entries 105
Mean 0.03296
Std Dev 0

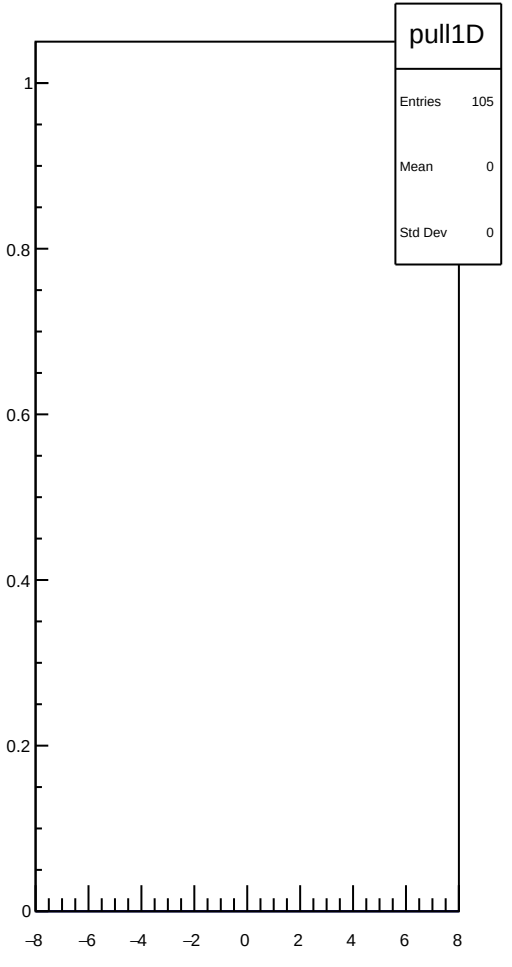

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 4.111e+29 / 104
p0 931.7 ± 9.759e−17
931.78
931.76
931.74
931.72
931.7
931.68
931.66
931.64
931.62
pull
Entries 105
Mean −1.775e+09
Std Dev 0
×10¹²
40
20
0
−20
−40
−60
−80
−100

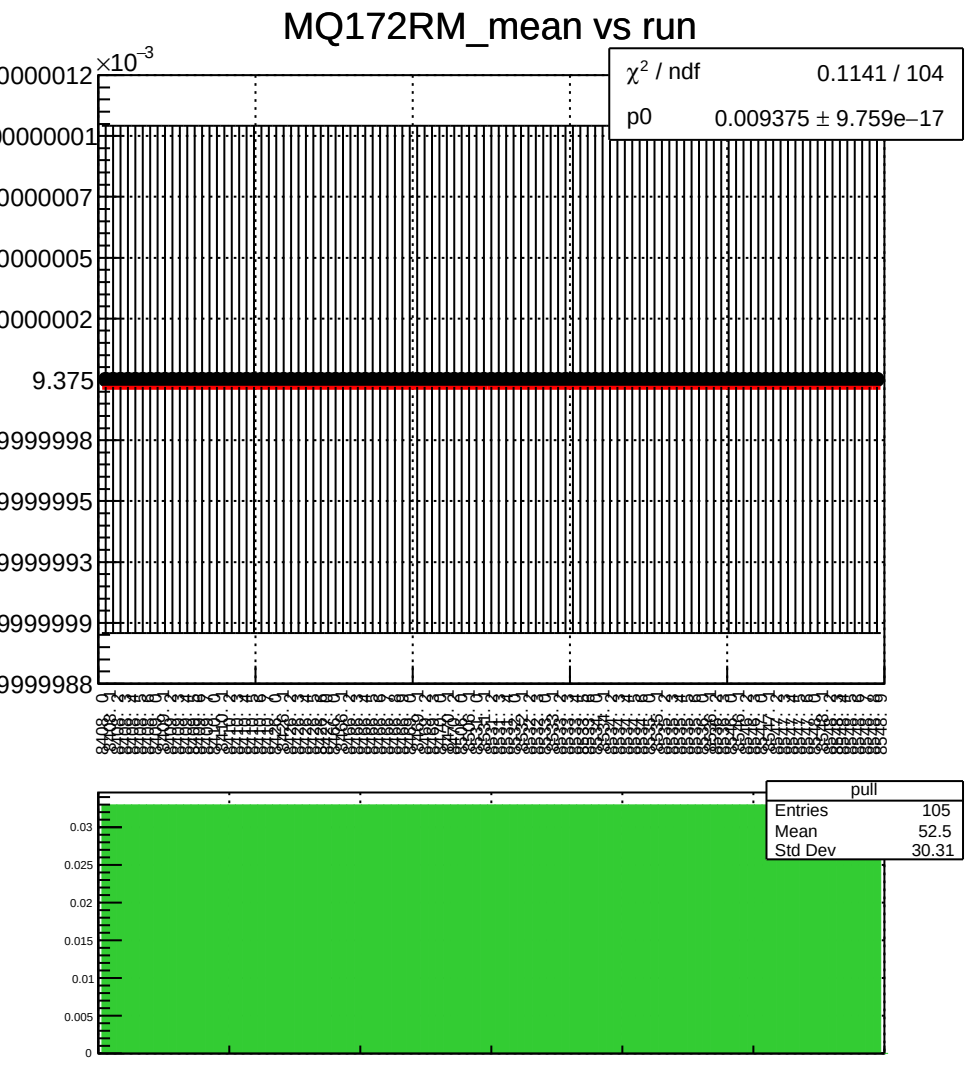

pull1D
Entries 105
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

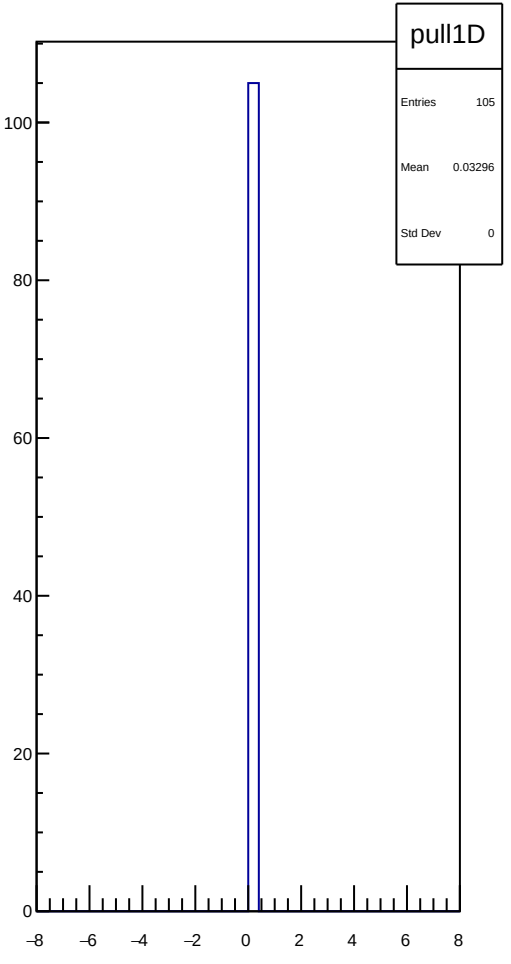

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 2.678e+30 / 104
p0 741.3 ± 9.759e−17
741.4
741.35
741.3
741.25
741.2
741.15
741.1
741.05
741
pull
Entries 105
Mean 4.793e+10
Std Dev 0
×10¹²
100
50
0
−50
−100
−150
−200
−250

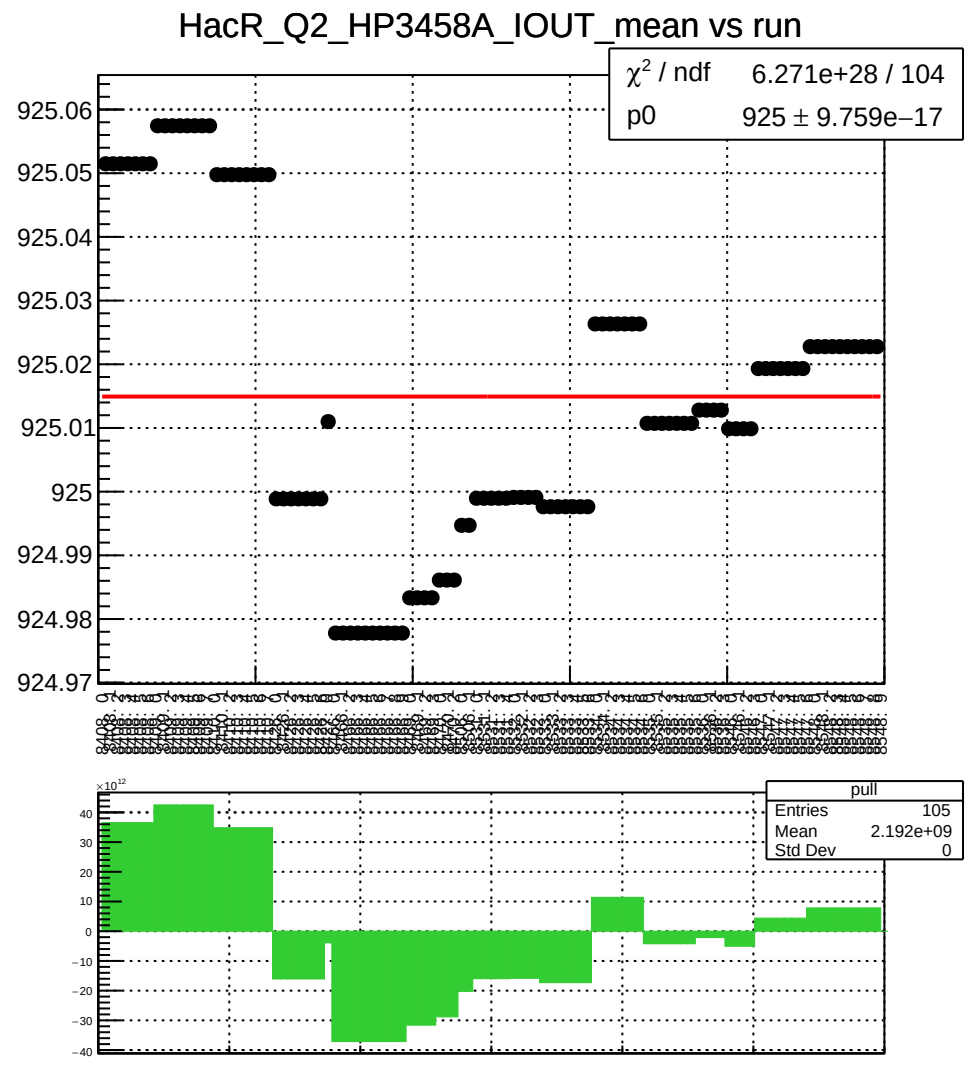

pull1D
Entries 105
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

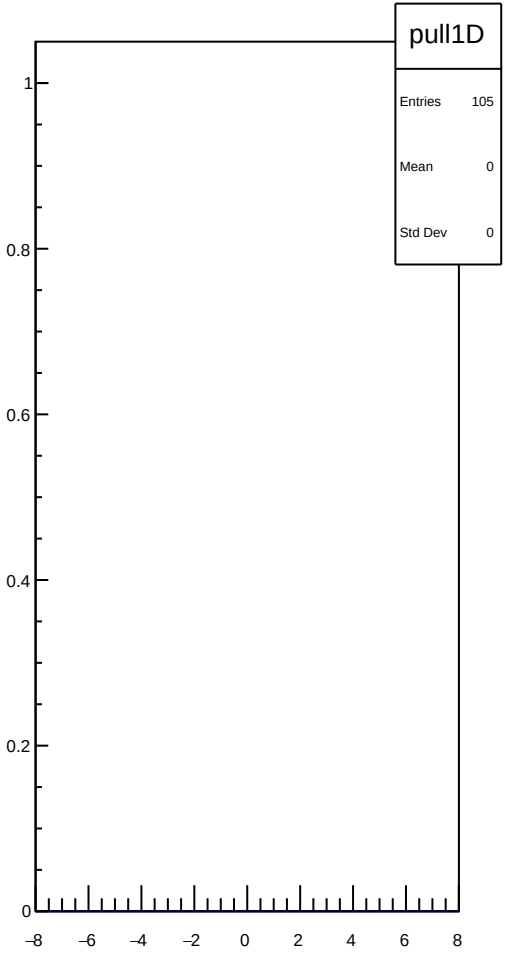

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 3.123e+27 / 104
p0 980.8 ± 9.759e−17
980.82
980.815
980.81
980.805
980.8
×10⁹
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 105
Mean −1.515e+10
Std Dev 0

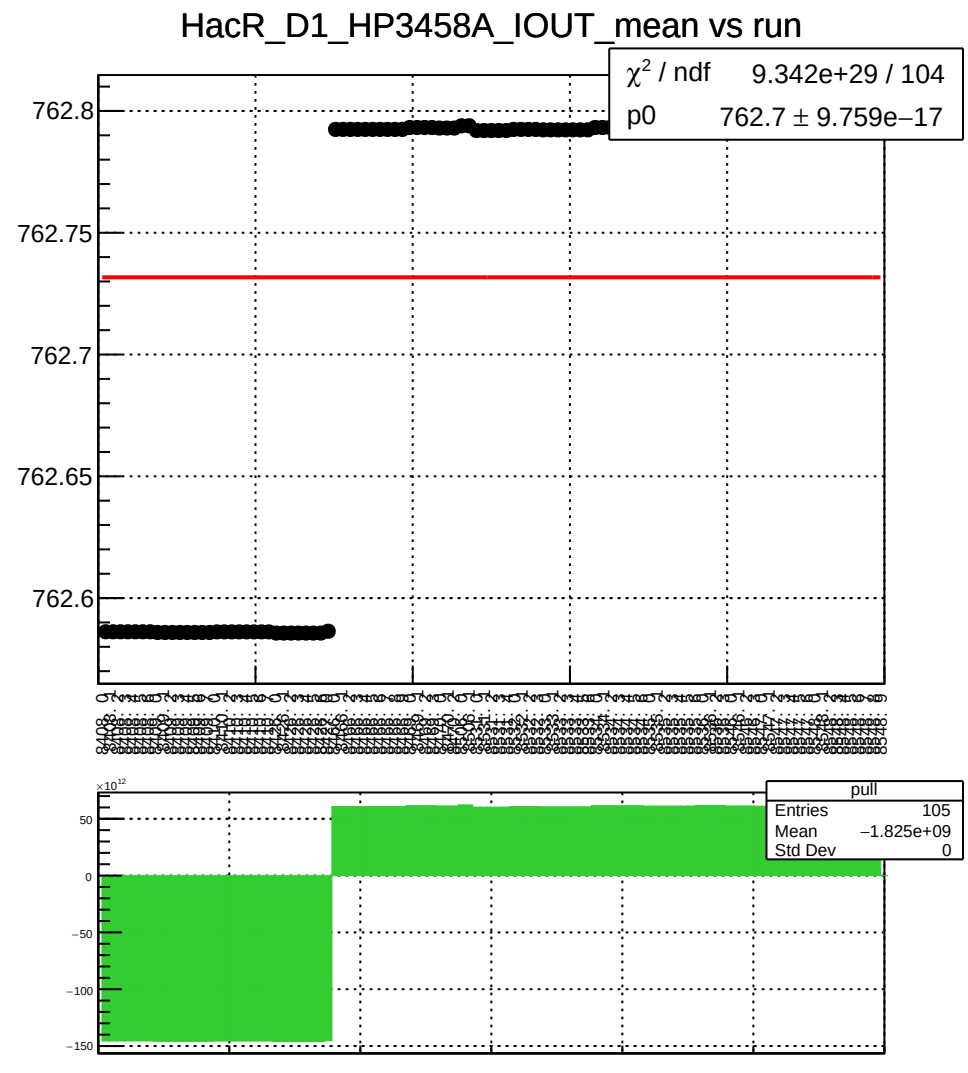

pull1D
Entries 105
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

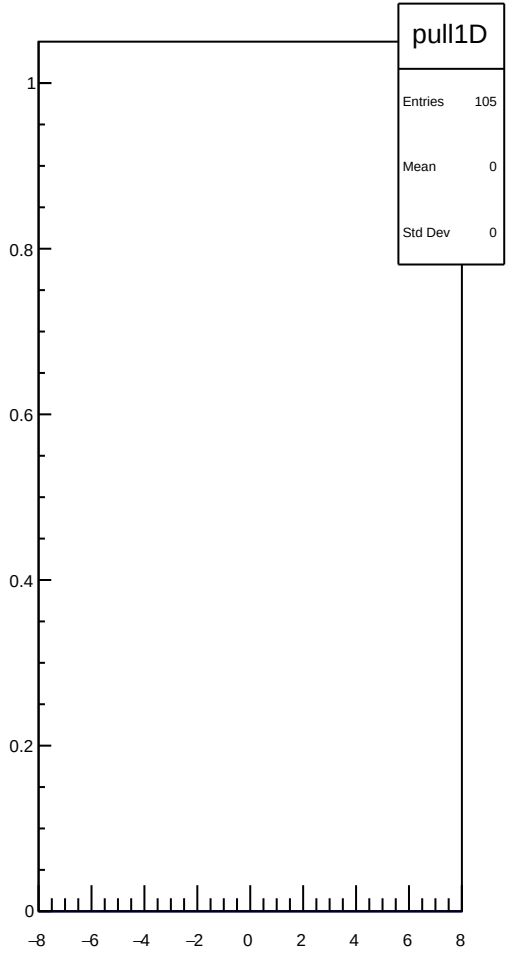

MQ172RM_mean vs run
×10⁻³
χ² / ndf 0.1141 / 104
p0 0.009375 ± 9.759e−17
pull
Entries 105
Mean 52.5
Std Dev 30.31

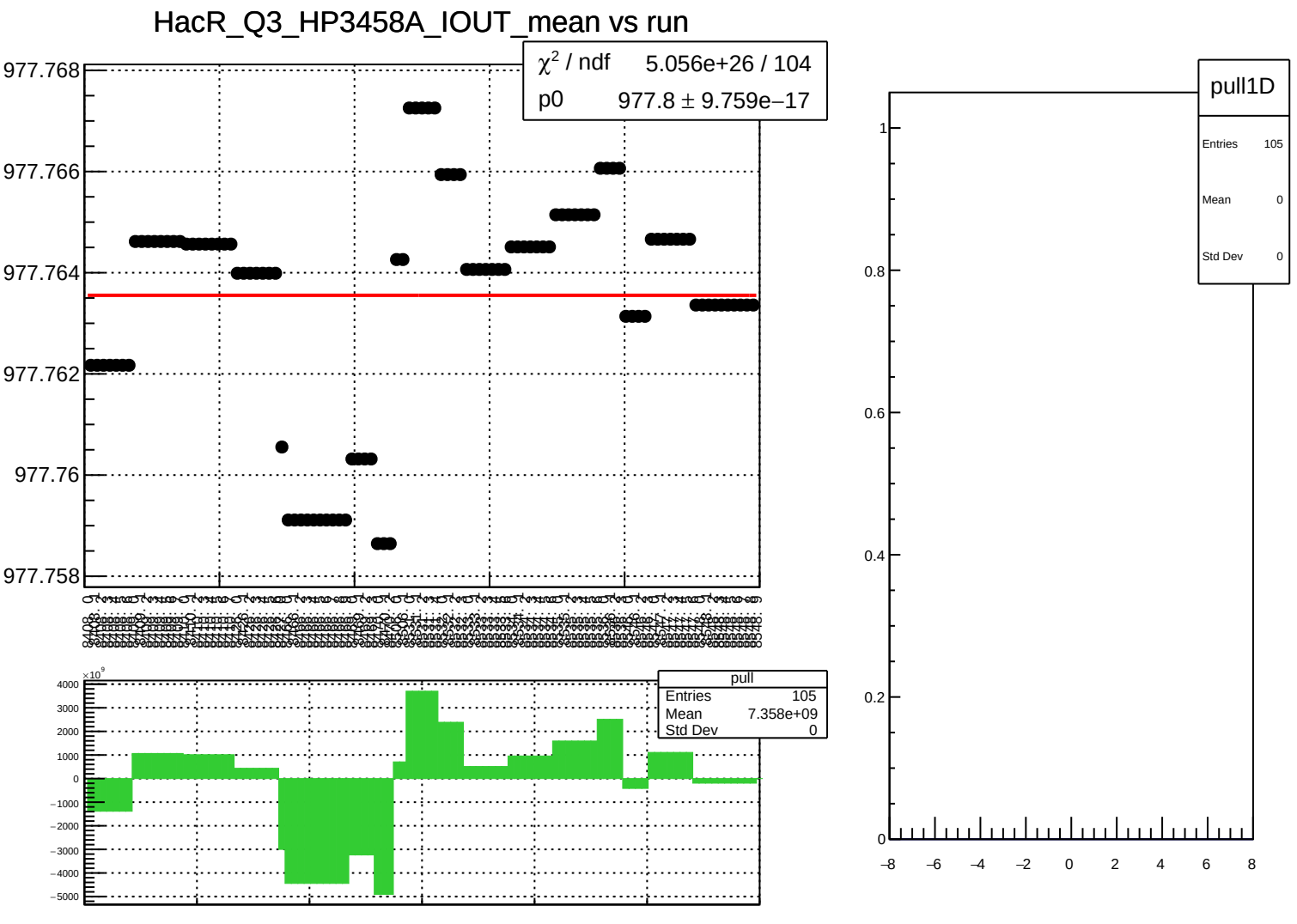

pull1D
Entries 105
Mean 0.03296
Std Dev 0

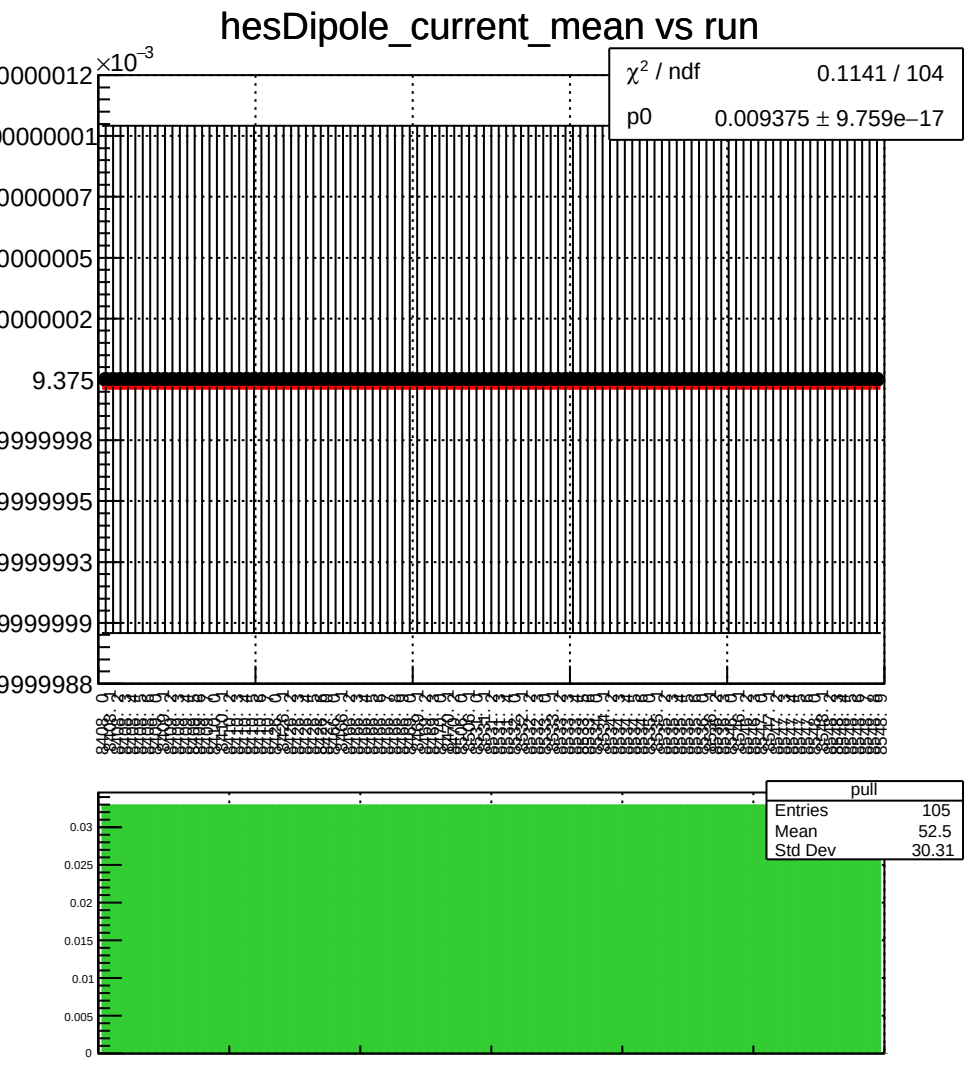

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 6.271e+28 / 104
p0 925 ± 9.759e−17
925.06
925.05
925.04
925.03
925.02
925.01
925
924.99
924.98
924.97
pull
Entries 105
Mean 2.192e+09
Std Dev 0
×10¹²
40
30
20
10
0
−10
−20
−30
−40

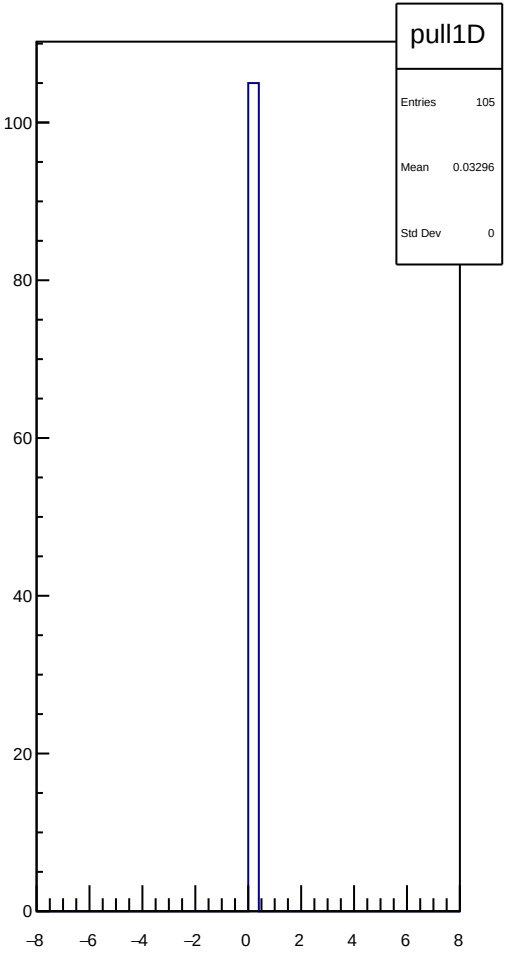

pull1D
Entries 105
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

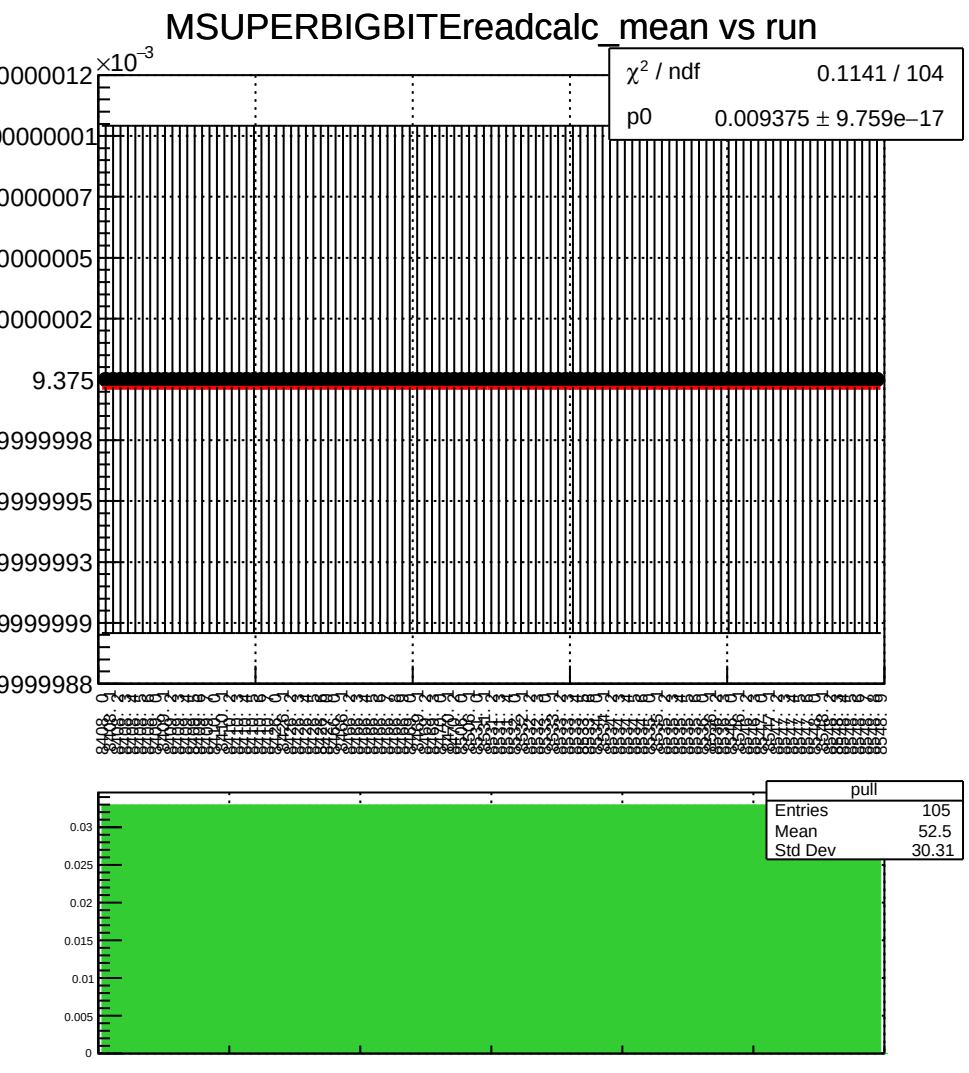

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 9.342e+29 / 104
p0 762.7 ± 9.759e−17
762.8
762.75
762.7
762.65
762.6
×10¹²
50
0
−50
−100
−150
pull
Entries 105
Mean −1.825e+09
Std Dev 0

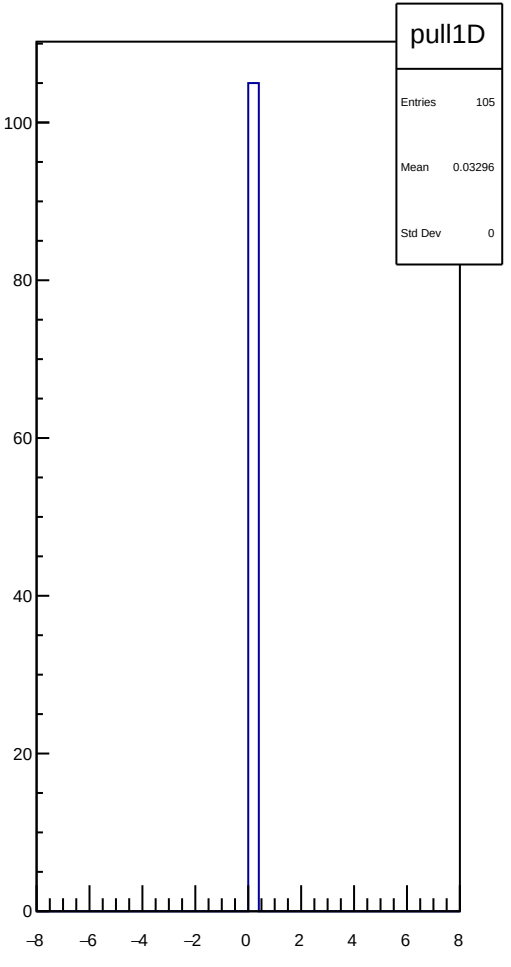

pull1D
Entries 105
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

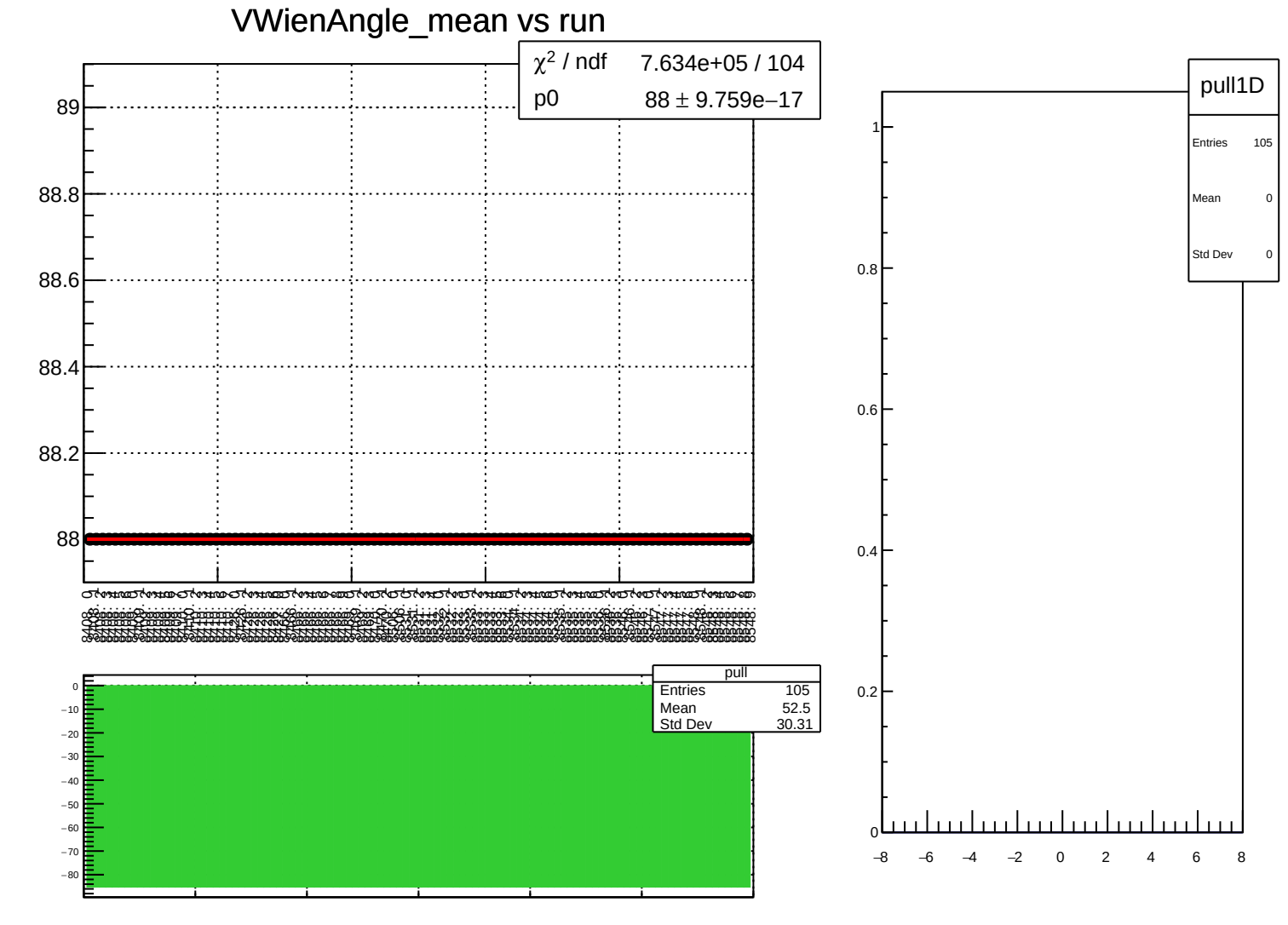

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 5.056e+26 / 104
p0 977.8 ± 9.759e−17
977.768
977.766
977.764
977.762
977.76
977.758
pull
Entries 105
Mean 7.358e+09
Std Dev 0
×10⁹
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
−5000
pull1D
Entries 105
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

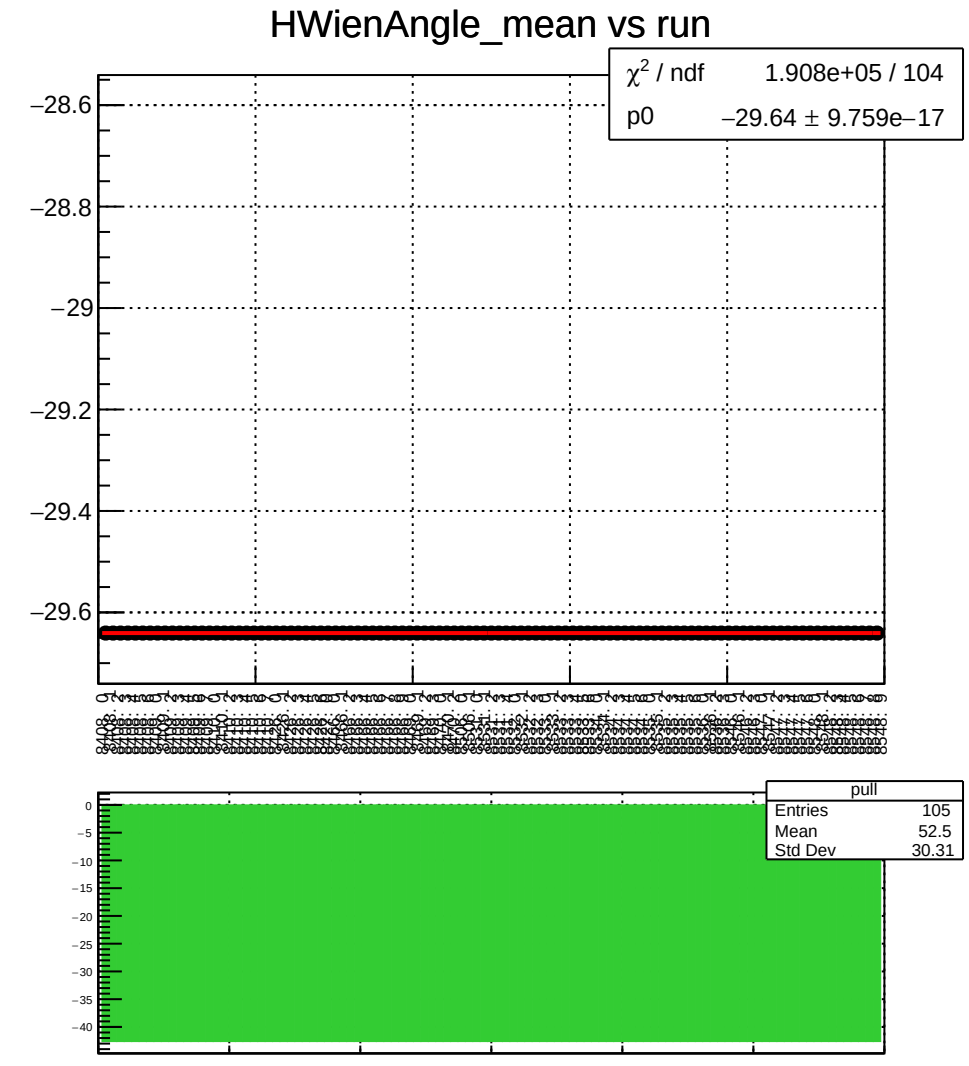

hesDipole_current_mean vs run
×10⁻³
χ² / ndf 0.1141 / 104
p0 0.009375 ± 9.759e−17
9.375
pull
Entries 105
Mean 52.5
Std Dev 30.31

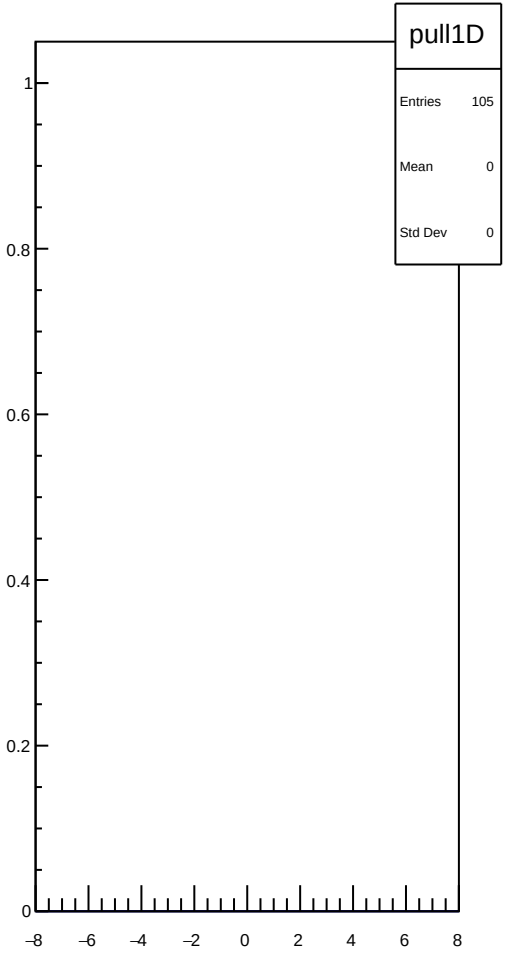

pull1D
Entries 105
Mean 0.03296
Std Dev 0

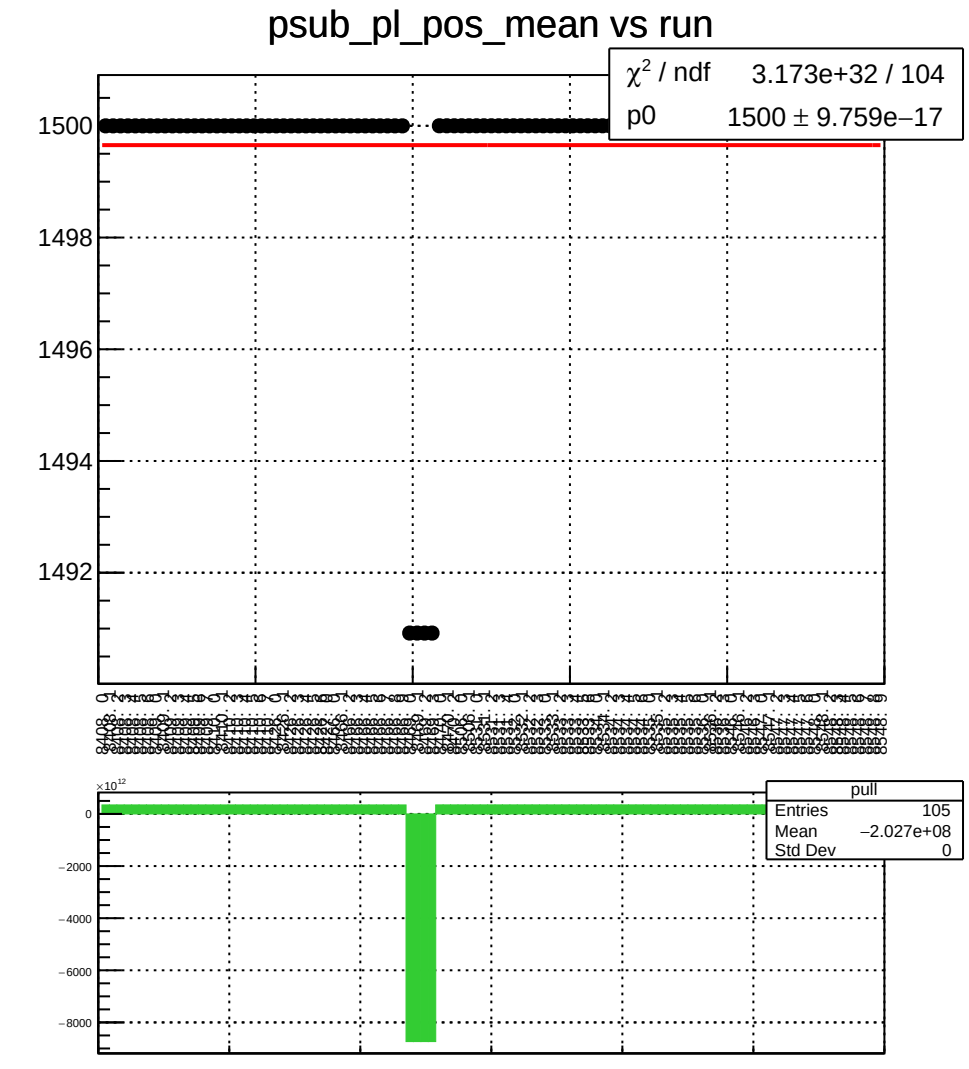

MSUPERBIGBITEreadcalc_mean vs run
×10⁻³
χ² / ndf 0.1141 / 104
p0 0.009375 ± 9.759e−17
pull
Entries 105
Mean 52.5
Std Dev 30.31

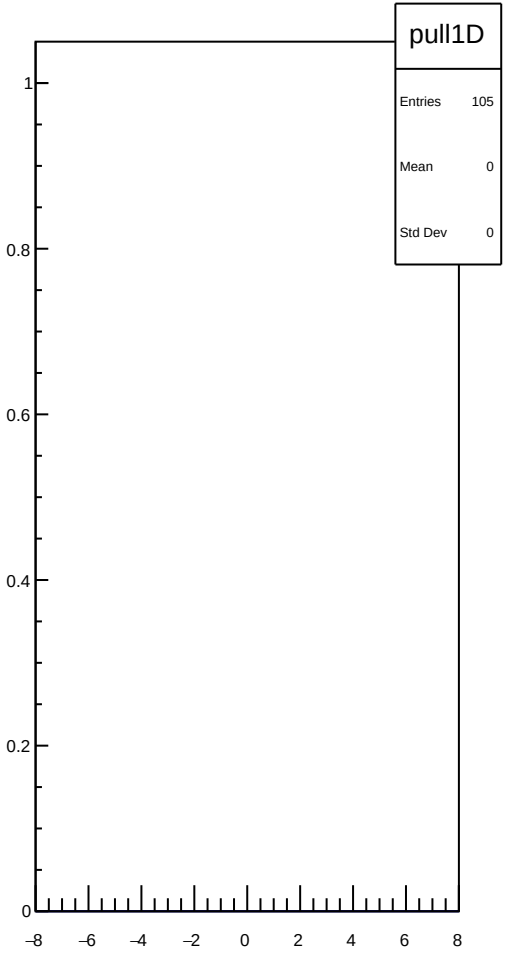

pull1D
Entries 105
Mean 0.03296
Std Dev 0

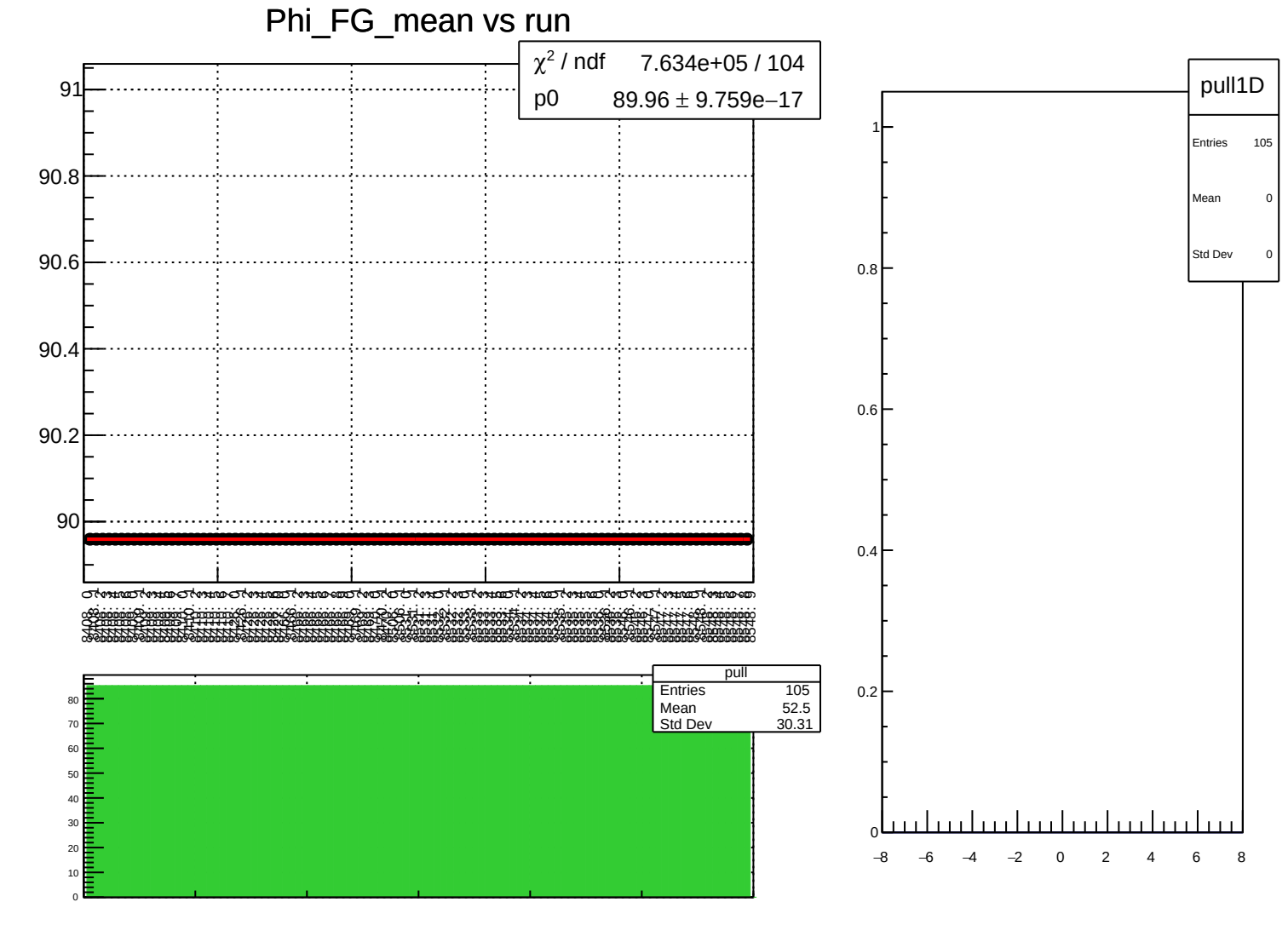

VWienAngle_mean vs run
χ² / ndf 7.634e+05 / 104
p0 88 ± 9.759e−17
89
88.8
88.6
88.4
88.2
88
pull
Entries 105
Mean 52.5
Std Dev 30.31
0
−10
−20
−30
−40
−50
−60
−70
−80
pull1D
Entries 105
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

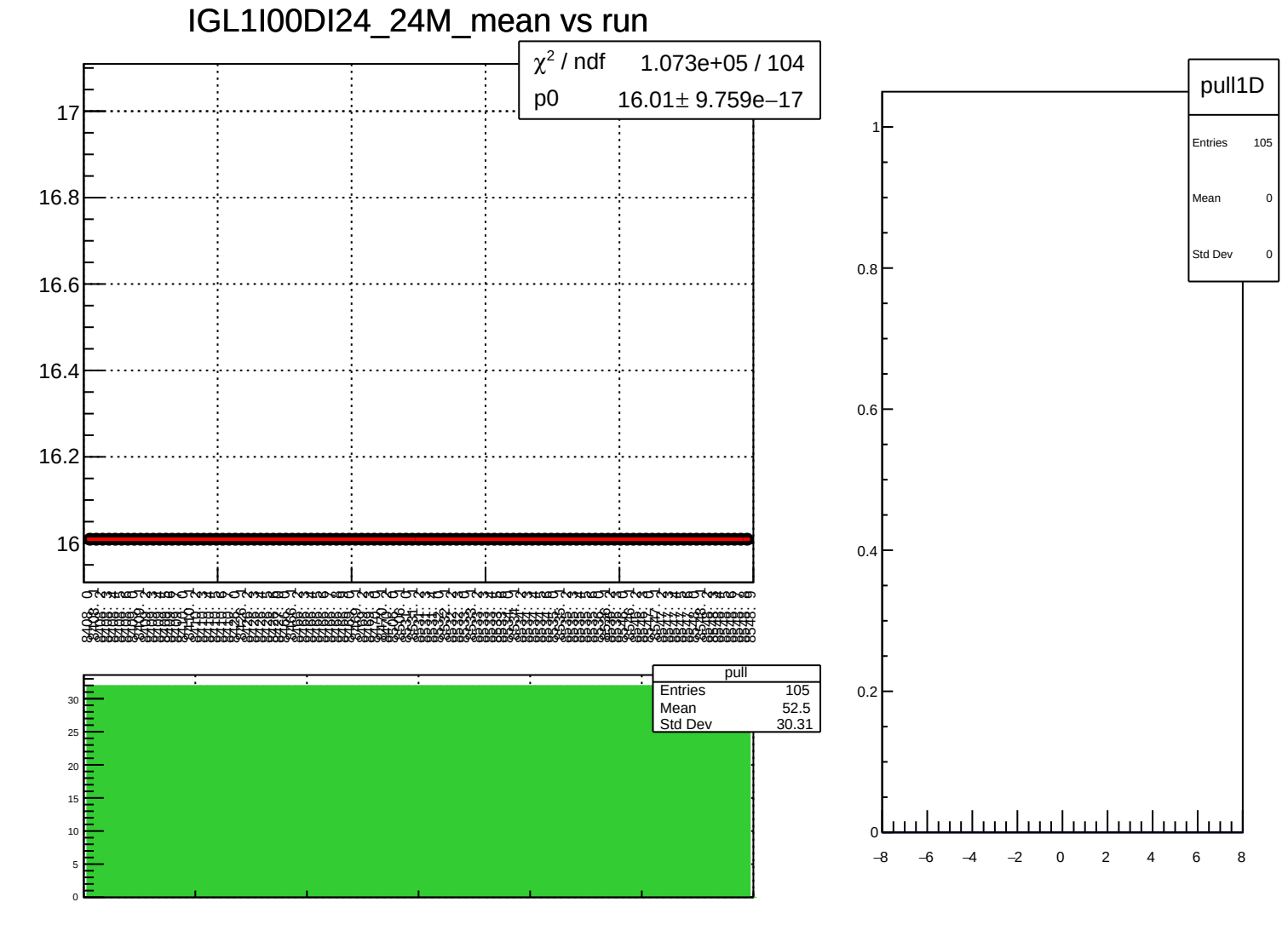

HWienAngle_mean vs run
χ² / ndf 1.908e+05 / 104
p0 −29.64 ± 9.759e−17
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 105
Mean 52.5
Std Dev 30.31
0
−5
−10
−15
−20
−25
−30
−35
−40

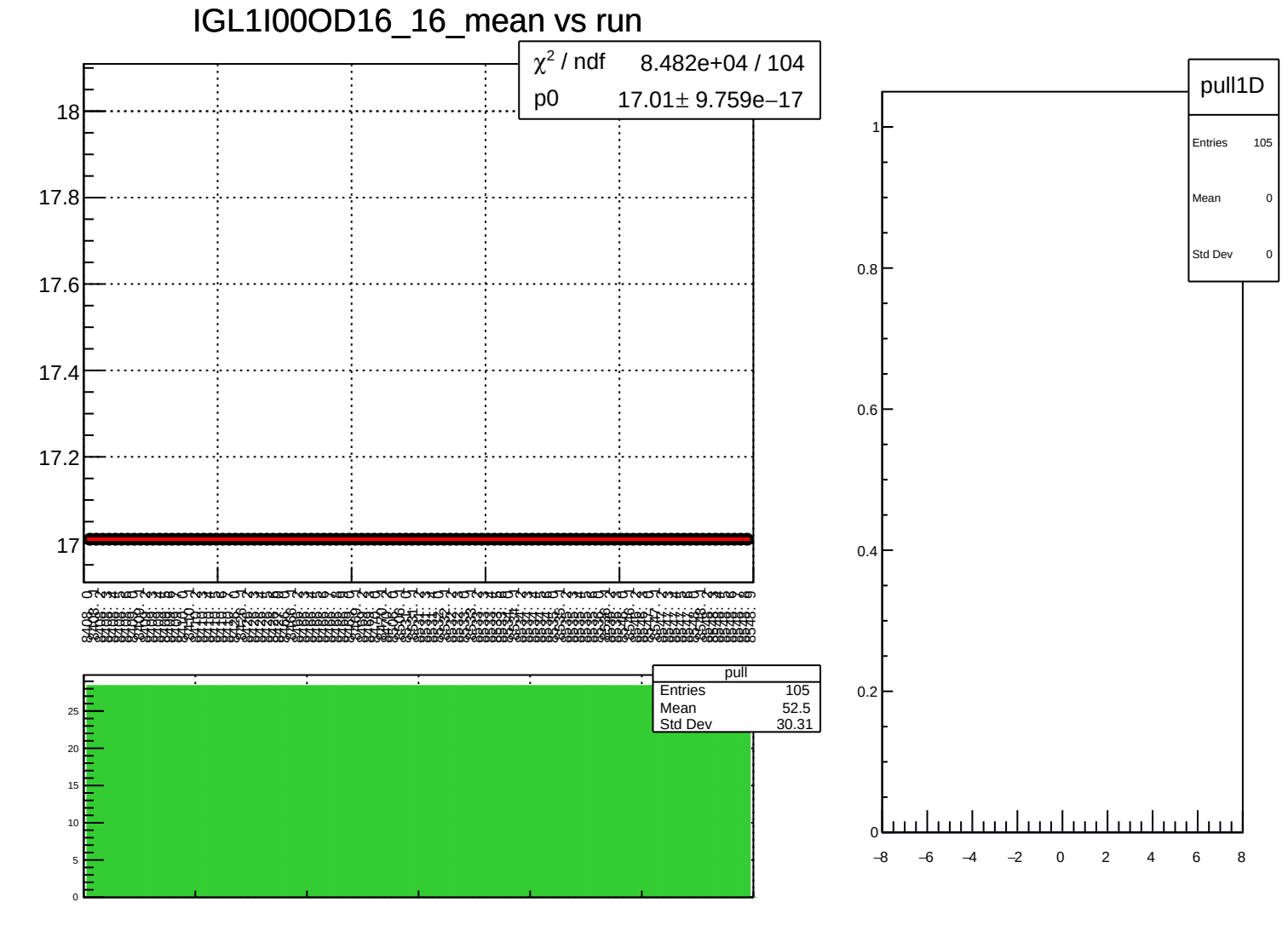

pull1D
Entries 105
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

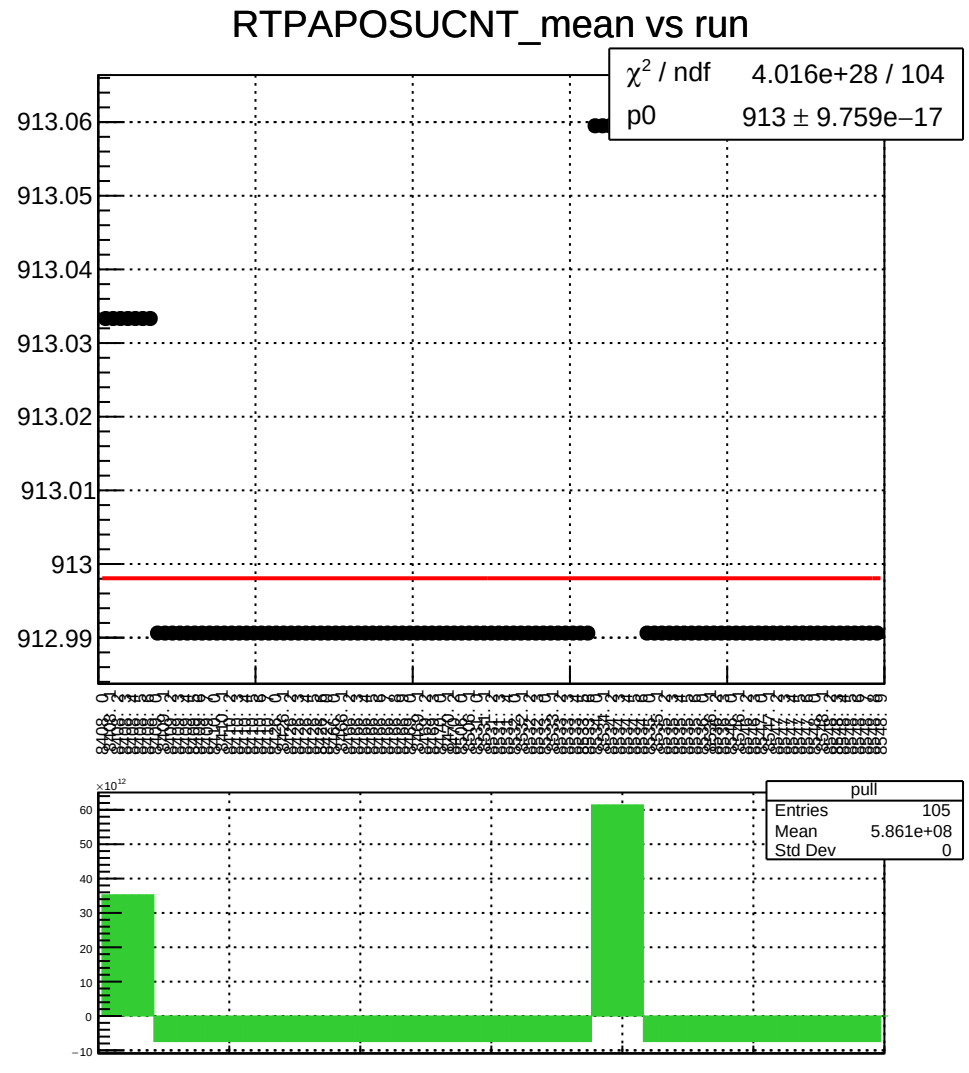

psub_pl_pos_mean vs run
χ² / ndf 3.173e+32 / 104
p0 1500 ± 9.759e−17
1500
1498
1496
1494
1492
×10¹²
0
−2000
−4000
−6000
−8000
pull
Entries 105
Mean −2.027e+08
Std Dev 0

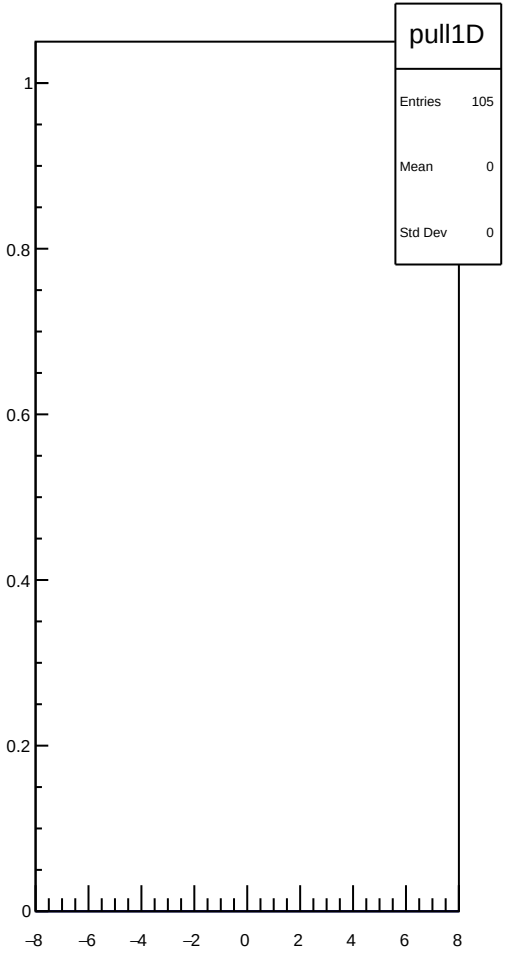

pull1D
Entries 105
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

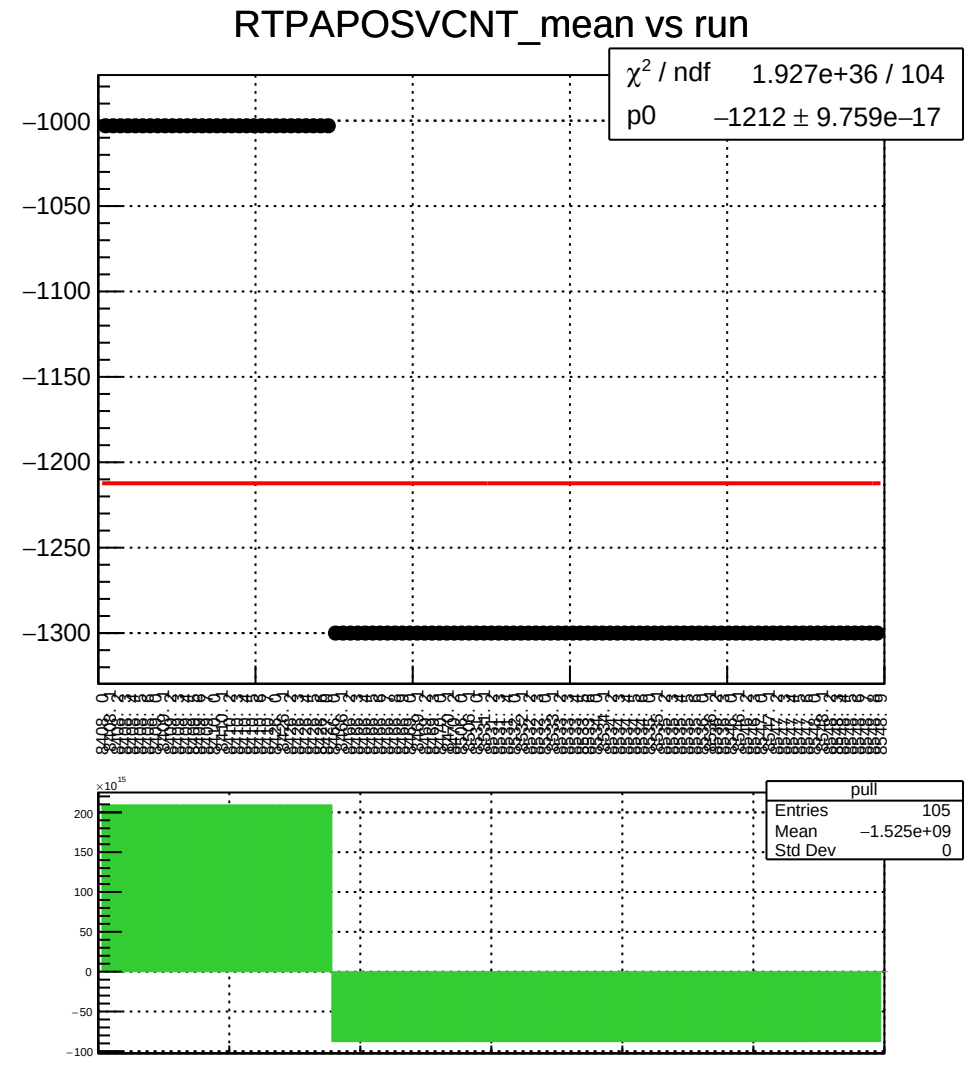

Phi_FG_mean vs run
χ² / ndf 7.634e+05 / 104
p0 89.96 ± 9.759e−17
91
90.8
90.6
90.4
90.2
90
pull
Entries 105
Mean 52.5
Std Dev 30.31
80
70
60
50
40
30
20
10
0
pull1D
Entries 105
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

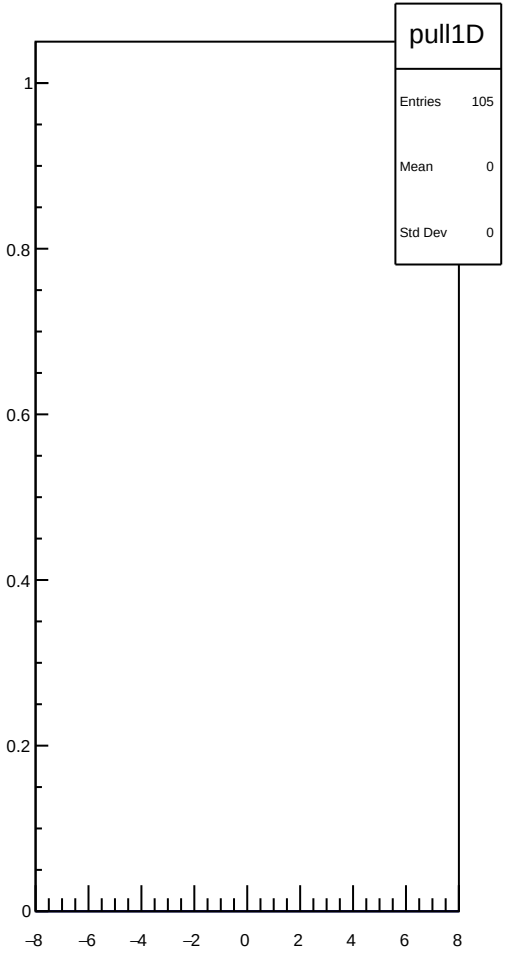

IGL1I00DI24_24M_mean vs run
χ² / ndf 1.073e+05 / 104
p0 16.01± 9.759e−17
17
16.8
16.6
16.4
16.2
16
pull
Entries 105
Mean 52.5
Std Dev 30.31
30
25
20
15
10
5
0
pull1D
Entries 105
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

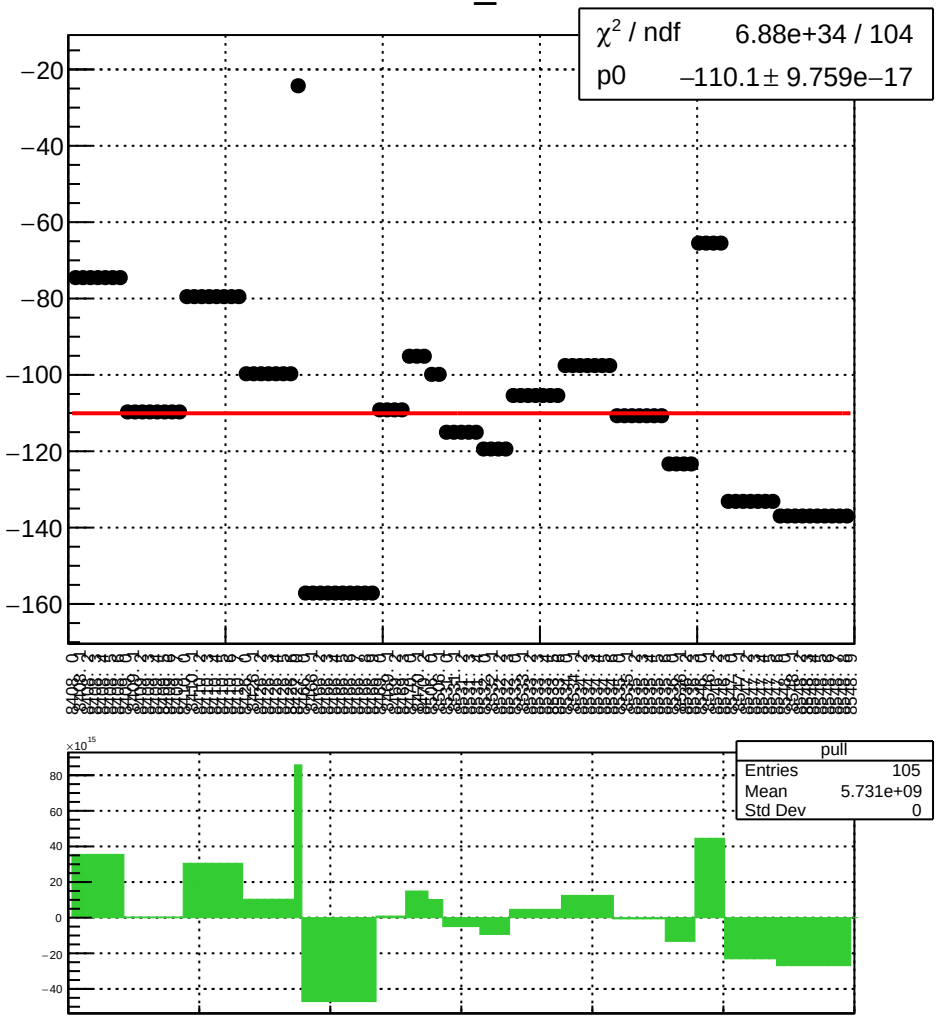

IGL1I00OD16_16_mean vs run
χ² / ndf 8.482e+04 / 104
p0 17.01± 9.759e−17
18
17.8
17.6
17.4
17.2
17
pull
Entries 105
Mean 52.5
Std Dev 30.31
25
20
15
10
5
0
pull1D
Entries 105
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

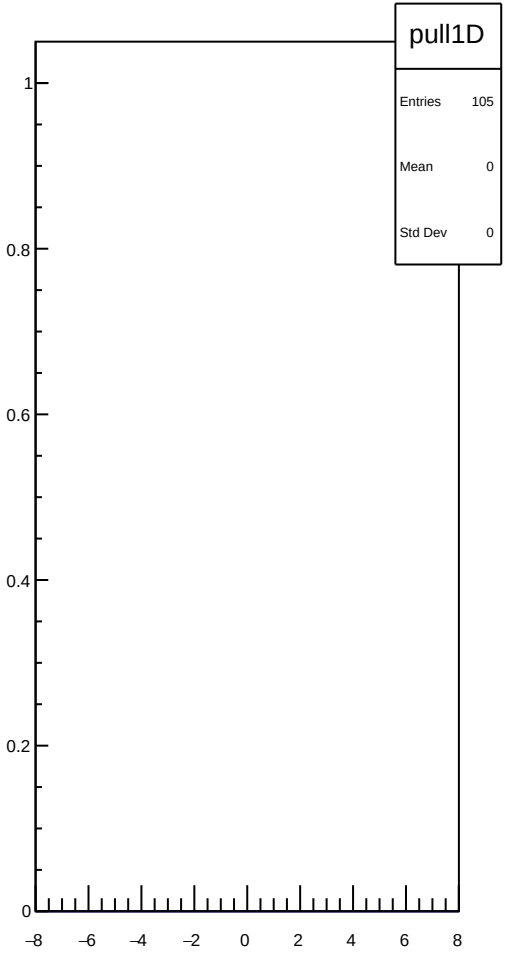

RTPAPOSUCNT_mean vs run
χ² / ndf 4.016e+28 / 104
p0 913 ± 9.759e−17
913.06
913.05
913.04
913.03
913.02
913.01
913
912.99
×10¹²
60
50
40
30
20
10
0
−10
pull
Entries 105
Mean 5.861e+08
Std Dev 0

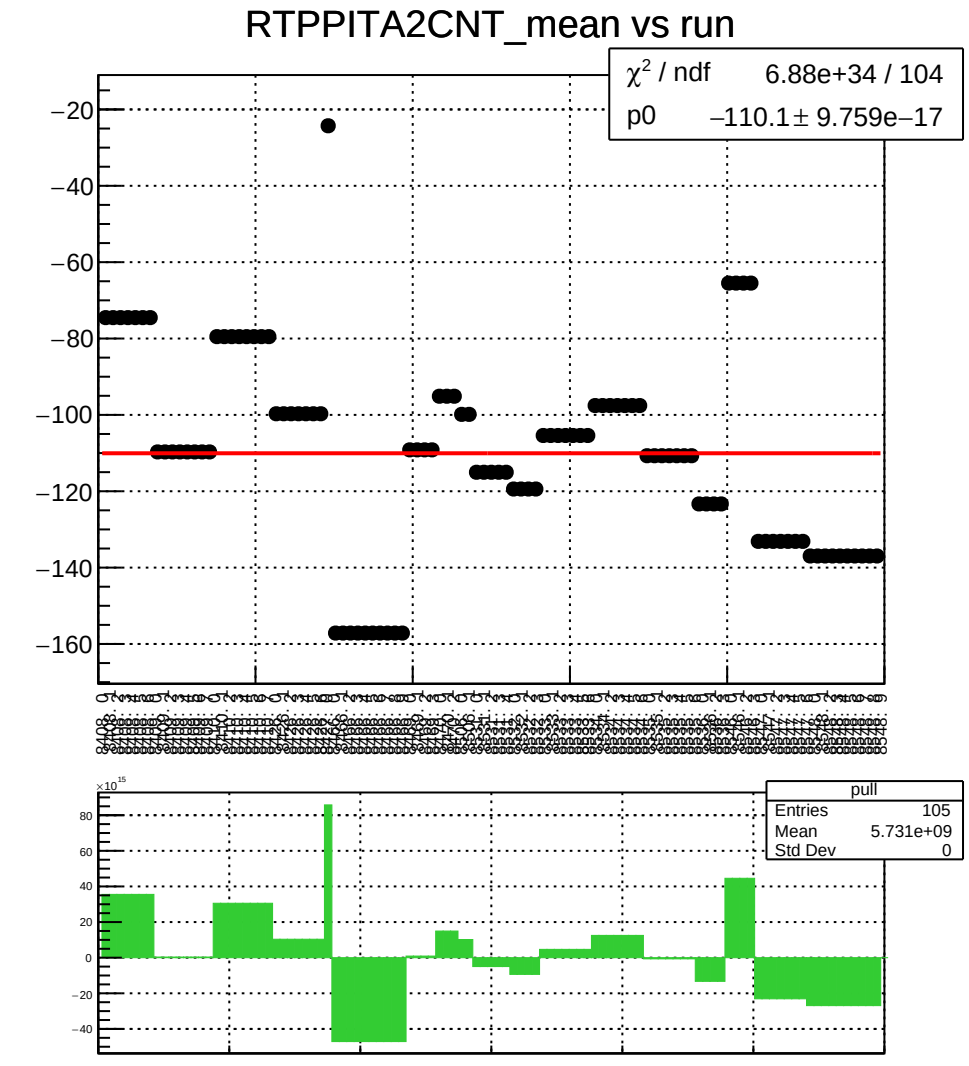

pull1D
Entries 105
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

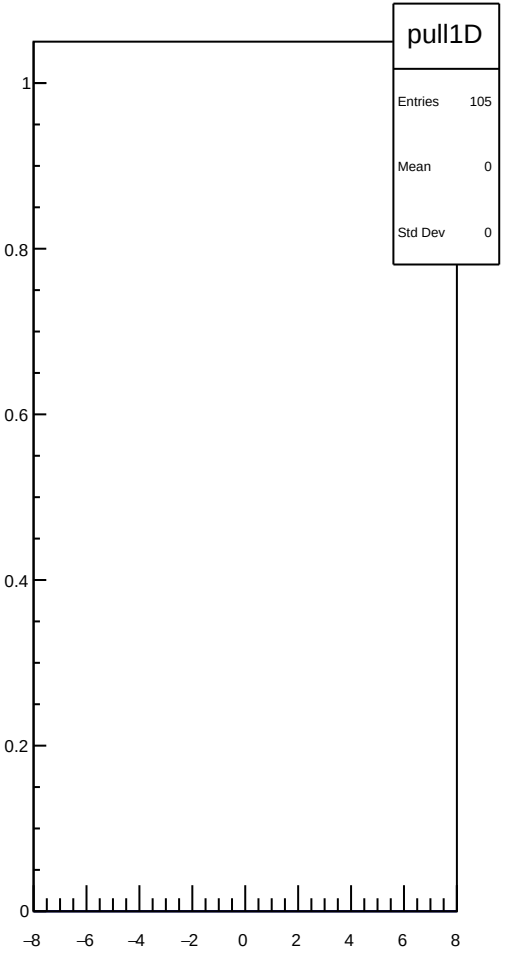

RTPAPOSVCNT_mean vs run
χ² / ndf 1.927e+36 / 104
p0 −1212 ± 9.759e−17
−1000
−1050
−1100
−1150
−1200
−1250
−1300
pull
Entries 105
Mean −1.525e+09
Std Dev 0
×10¹⁵
200
150
100
50
0
−50
−100


pull1D
Entries 105
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPPITA1CNT_mean vs run
χ² / ndf 6.88e+34 / 104
p0 −110.1 ± 9.759e−17
−20
−40
−60
−80
−100
−120
−140
−160
pull
Entries 105
Mean 5.731e+09
Std Dev 0
×10¹⁵
80
60
40
20
0
−20
−40


pull1D
Entries 105
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPPITA2CNT_mean vs run
χ² / ndf 6.88e+34 / 104
p0 −110.1 ± 9.759e−17
−20
−40
−60
−80
−100
−120
−140
−160
pull
Entries 105
Mean 5.731e+09
Std Dev 0
×10¹⁵
80
60
40
20
0
−20
−40


pull1D
Entries 105
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8